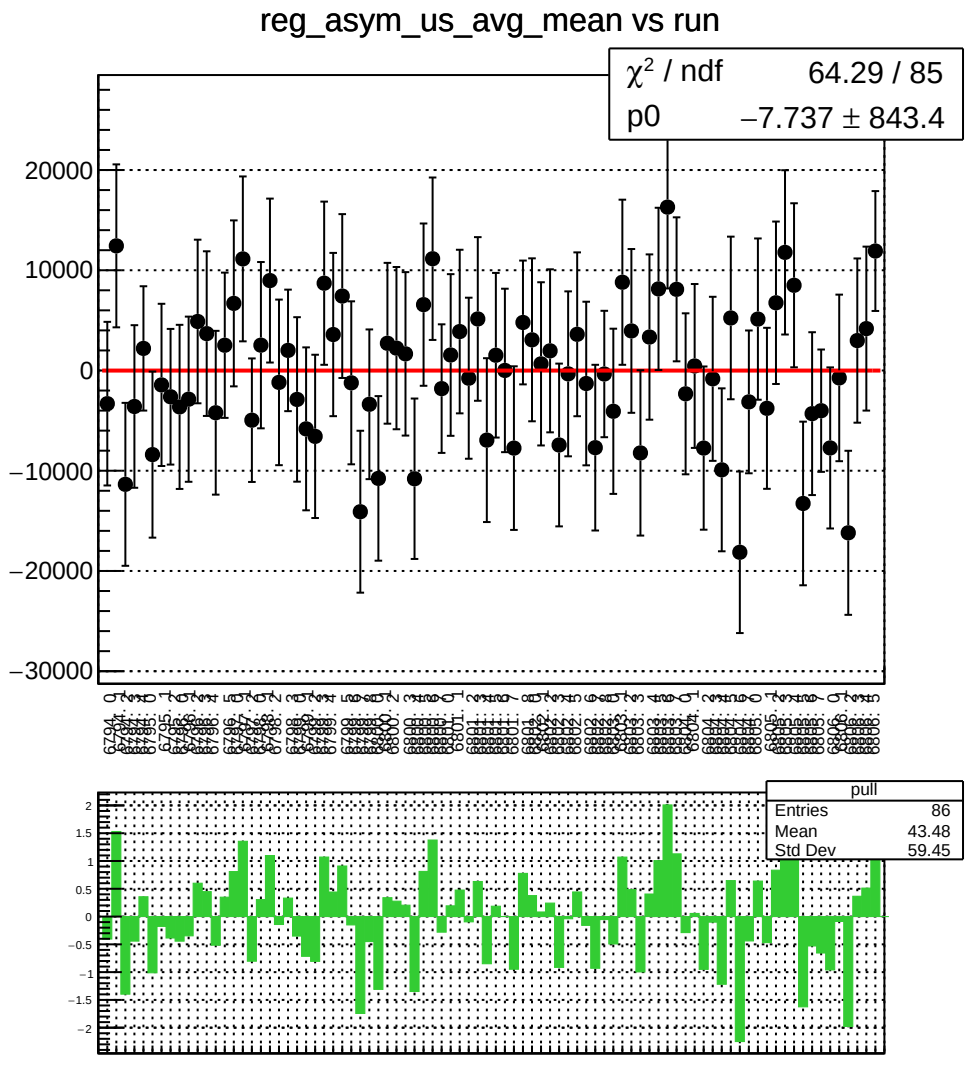
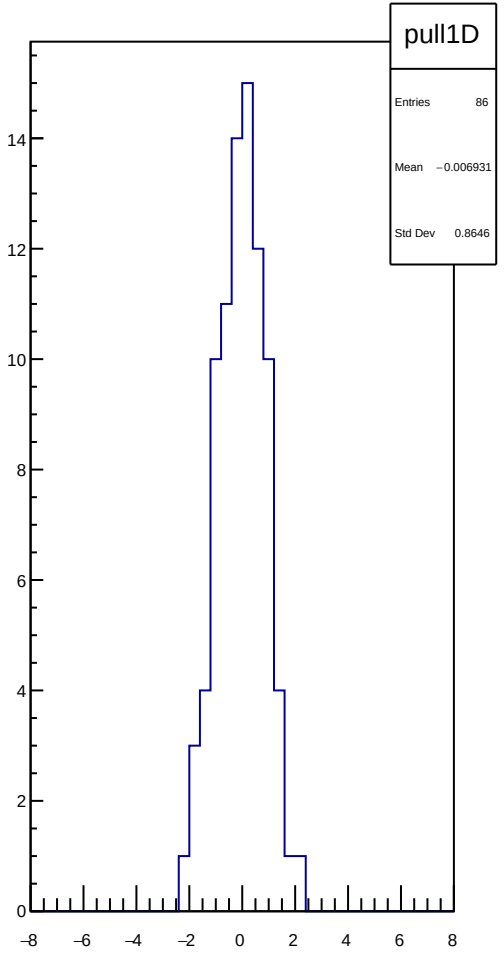
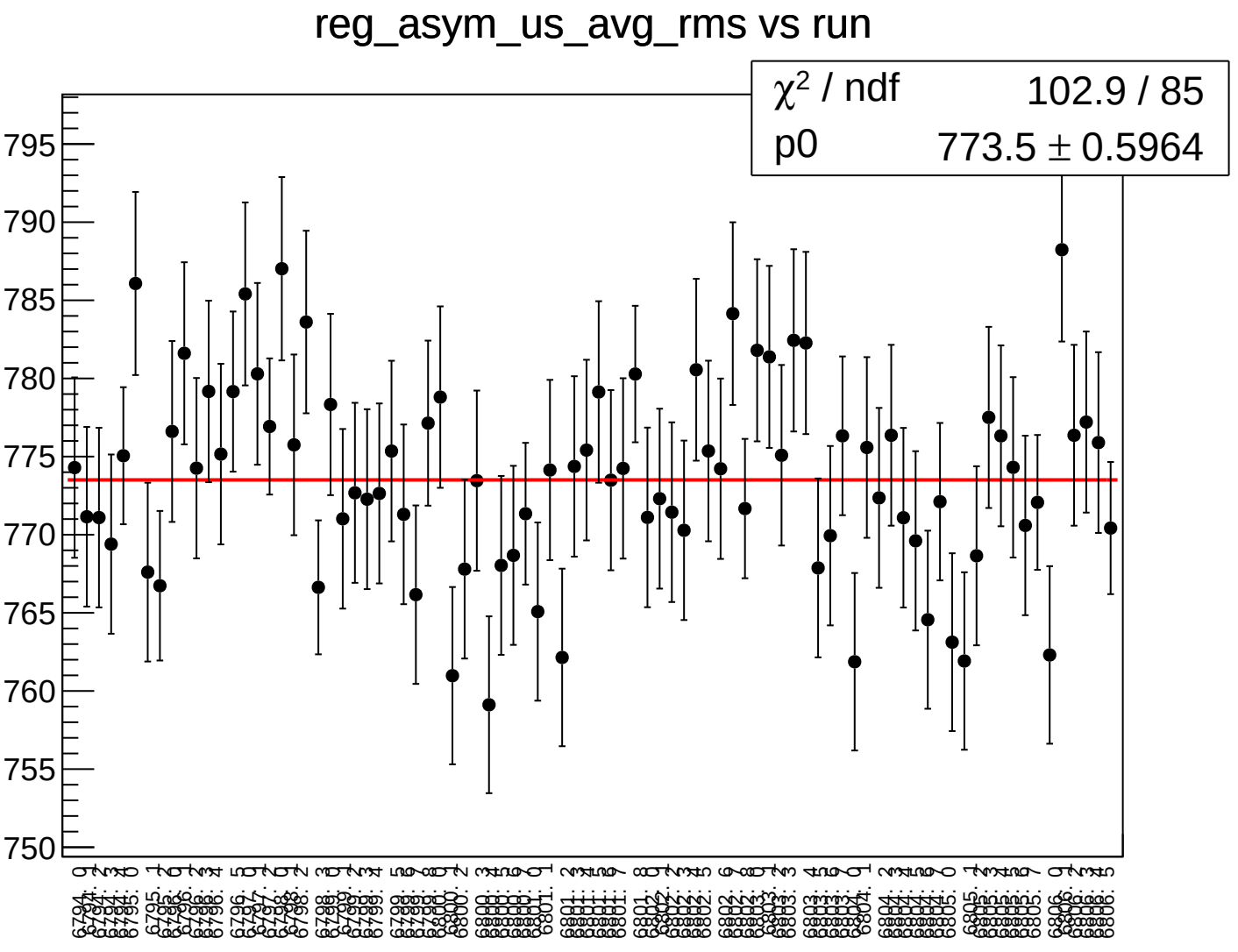
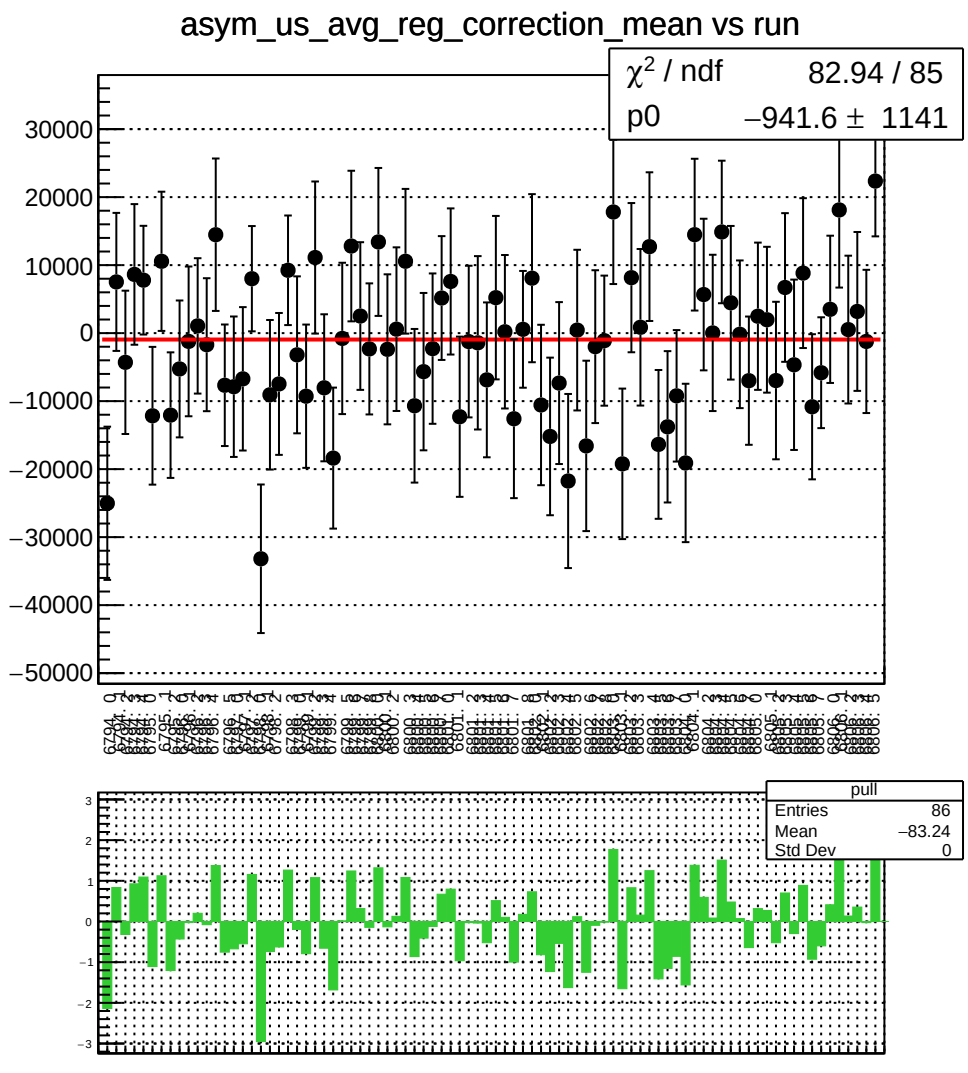
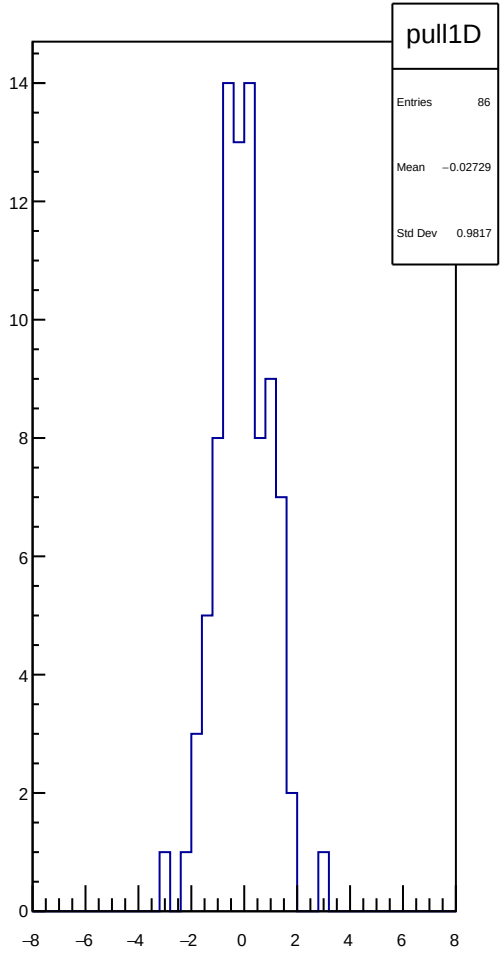
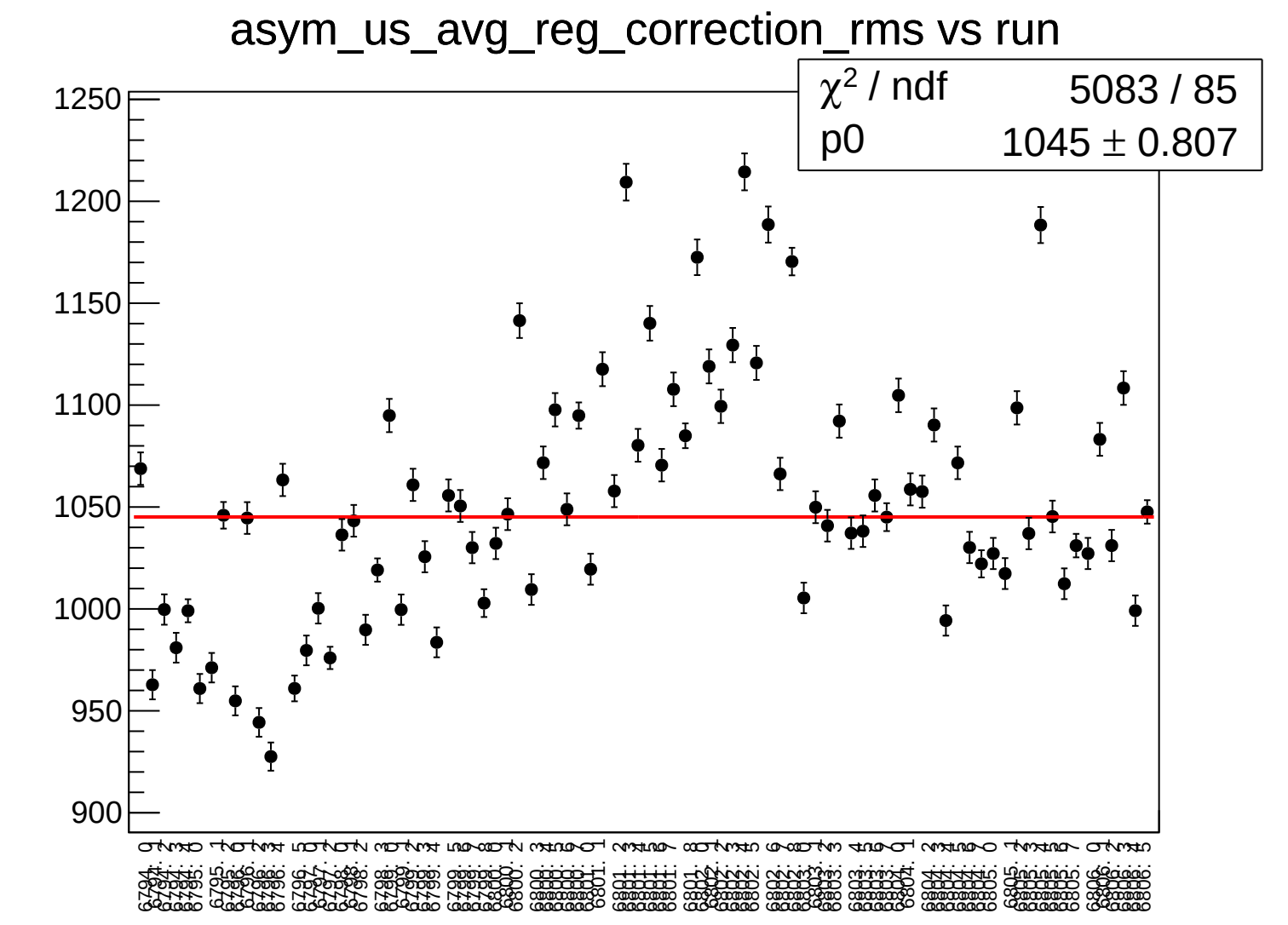

reg_asym_us_avg_mean vs run
χ² / ndf 64.29 / 85
p0 −7.737 ± 843.4
pull
Entries 86
Mean 43.48
Std Dev 59.45

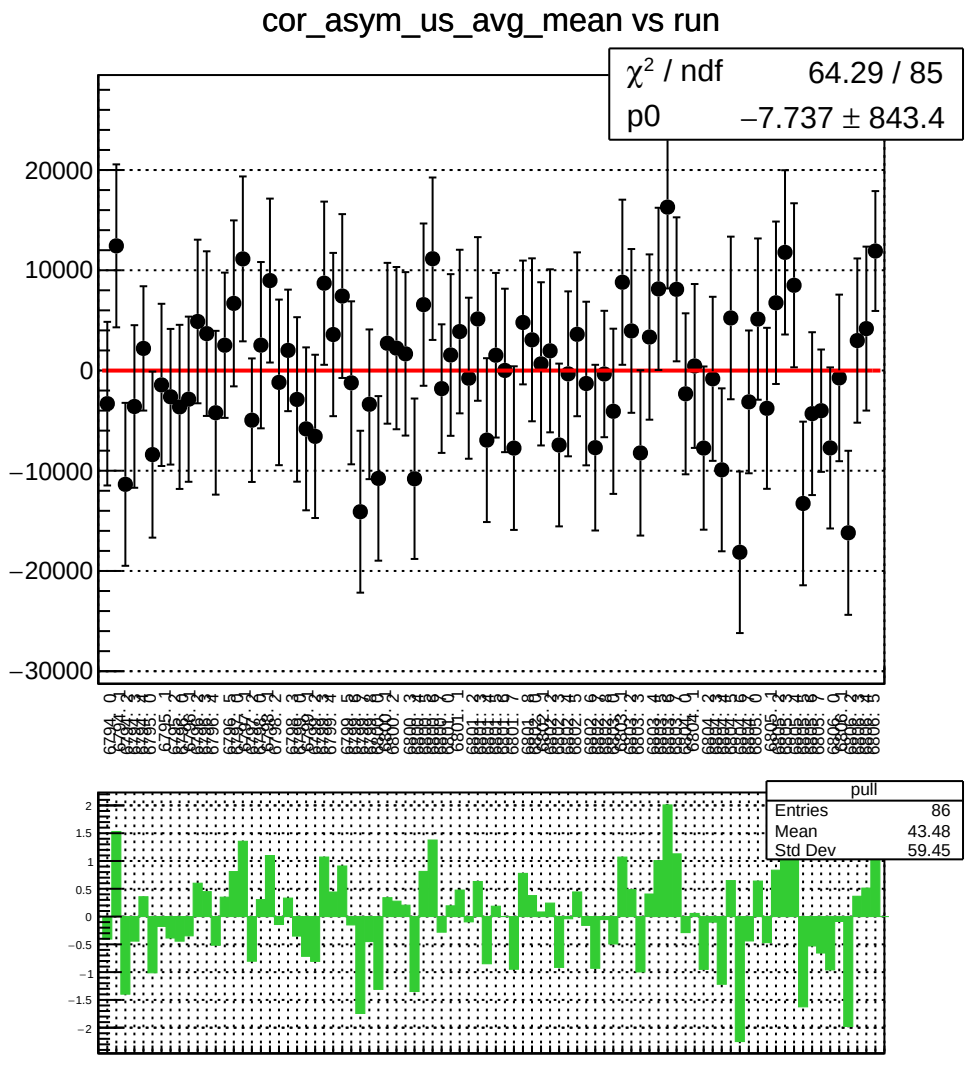

pull1D
Entries 86
Mean −0.006931
Std Dev 0.8646

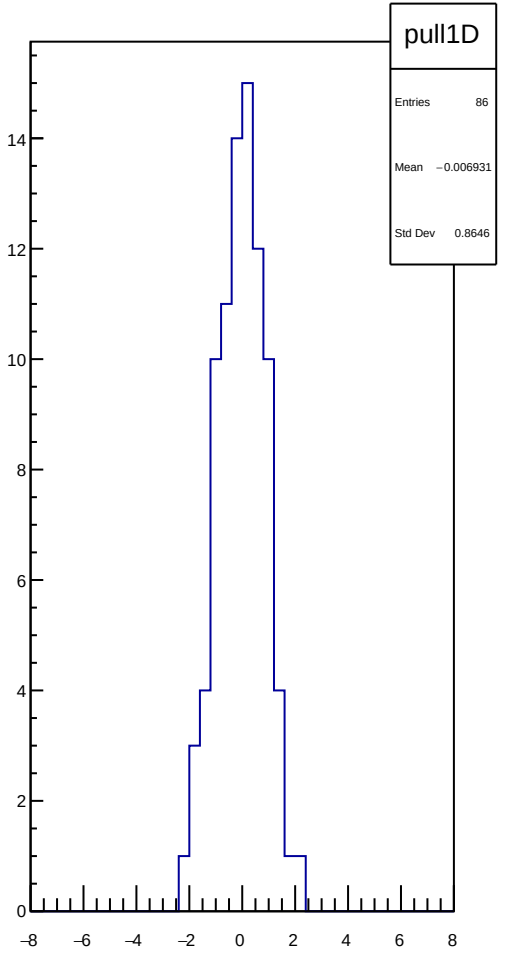

reg_asym_us_avg_rms vs run
χ² / ndf 102.9 / 85
p0 773.5 ± 0.5964
795
790
785
780
775
770
765
760
755
750

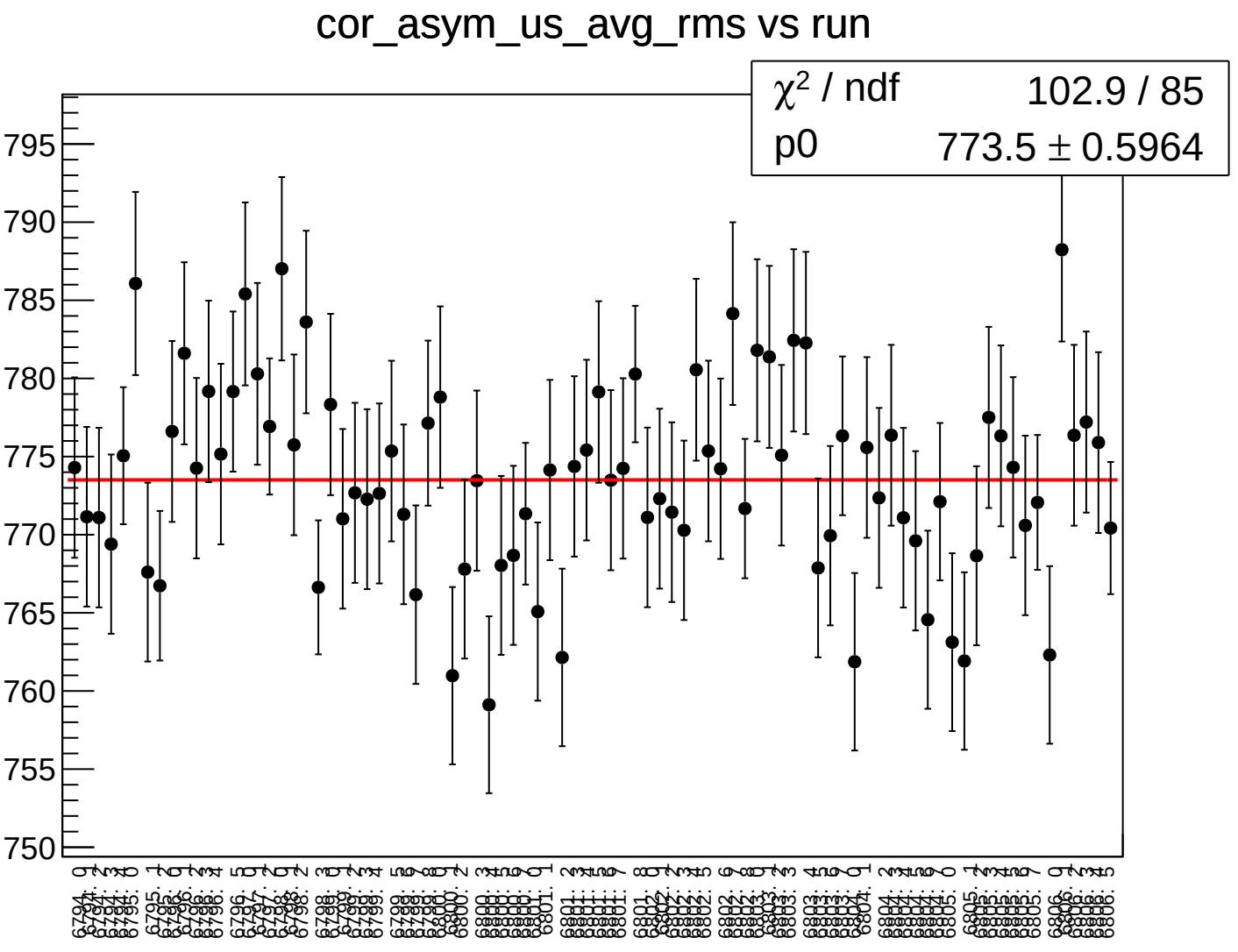

asym_us_avg_reg_correction_mean vs run
χ² / ndf 82.94 / 85
p0 −941.6 ± 1141
pull
Entries 86
Mean −83.24
Std Dev 0

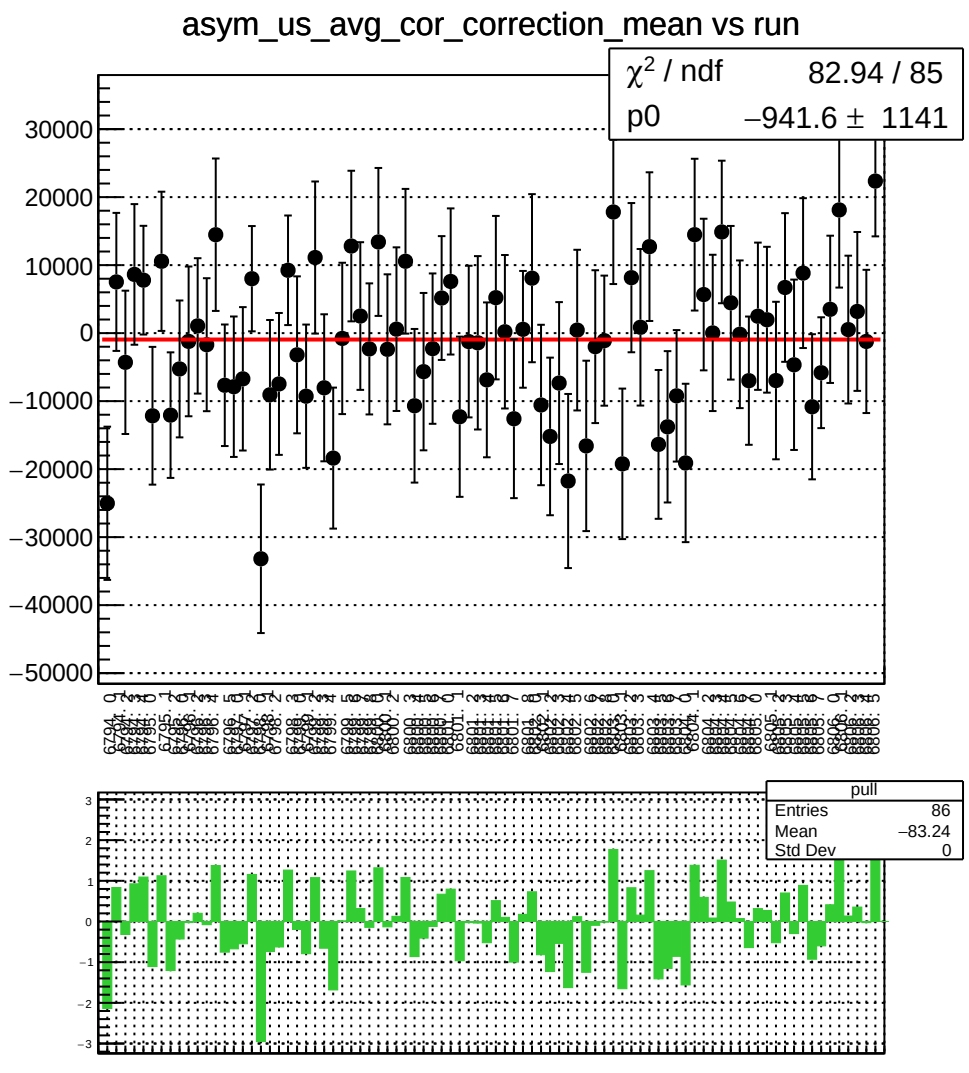

pull1D
Entries 86
Mean −0.02729
Std Dev 0.9817

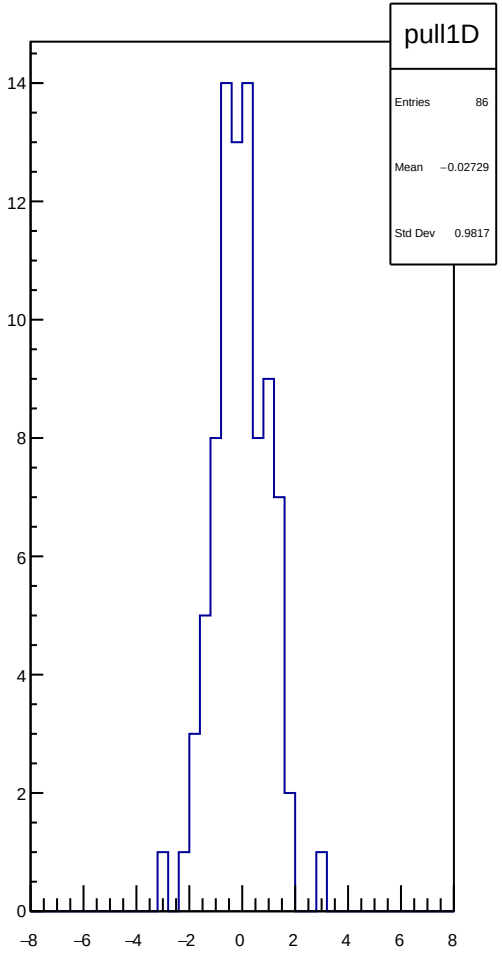

asym_us_avg_reg_correction_rms vs run
χ² / ndf 5083 / 85
p0 1045 ± 0.807
1250
1200
1150
1100
1050
1000
950
900

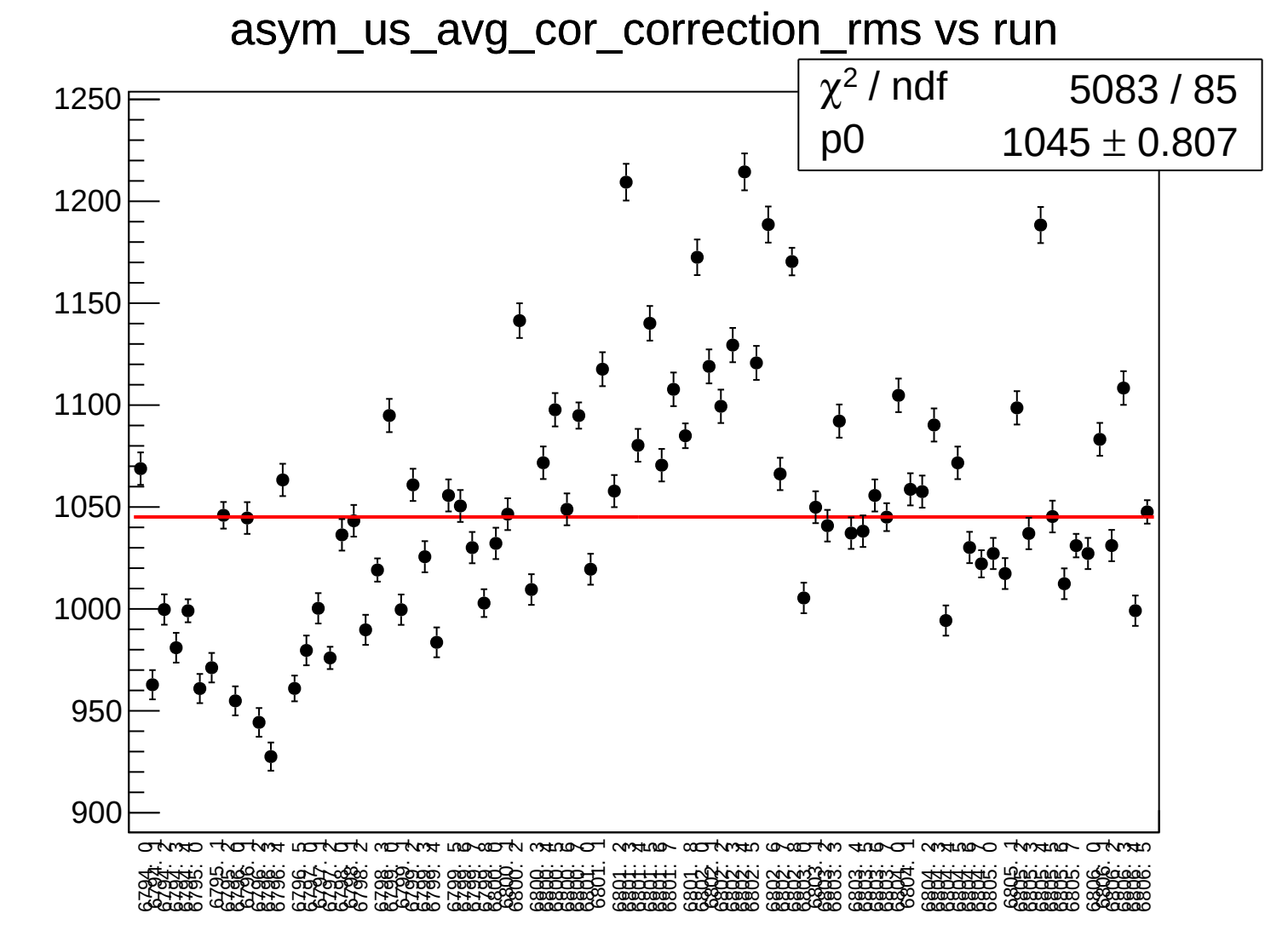

cor_asym_us_avg_mean vs run
χ² / ndf 64.29 / 85
p0 −7.737 ± 843.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 43.48
Std Dev 59.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

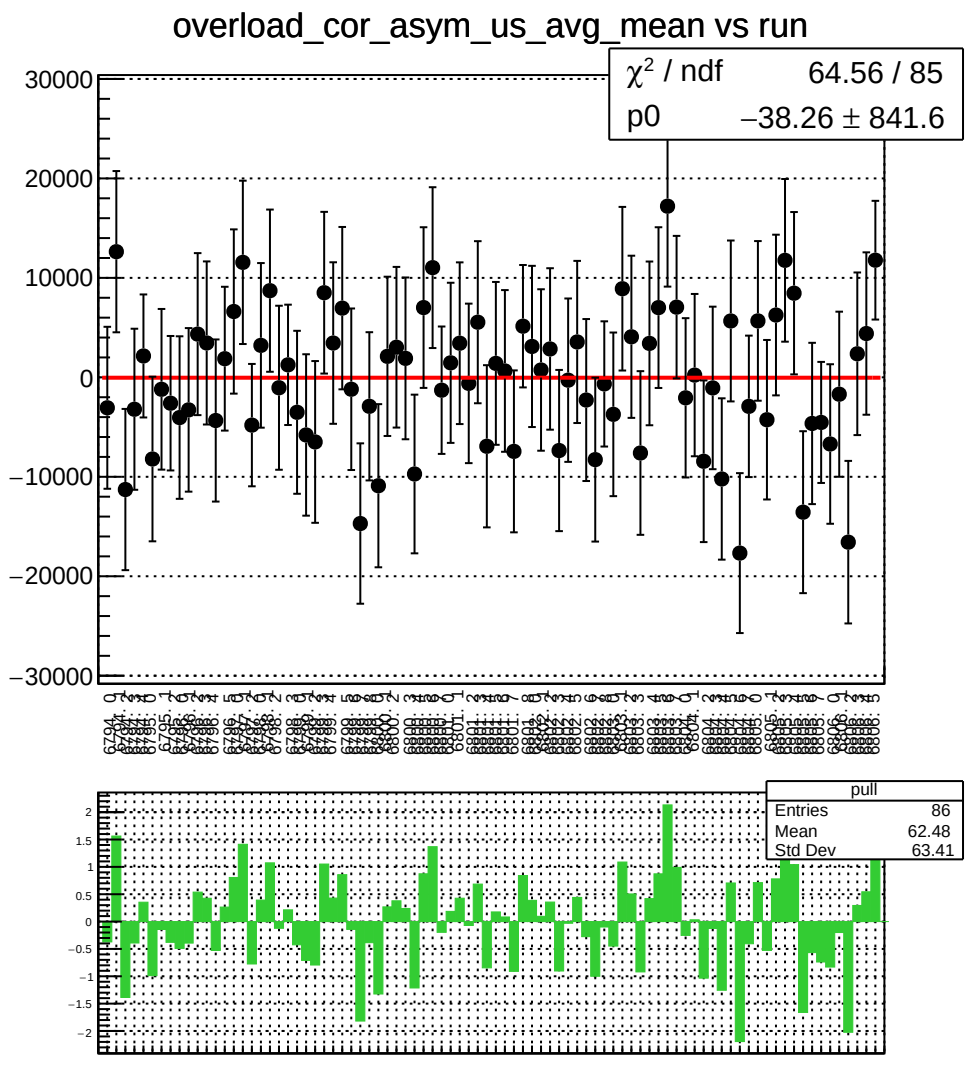

pull1D
Entries 86
Mean −0.006931
Std Dev 0.8646
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

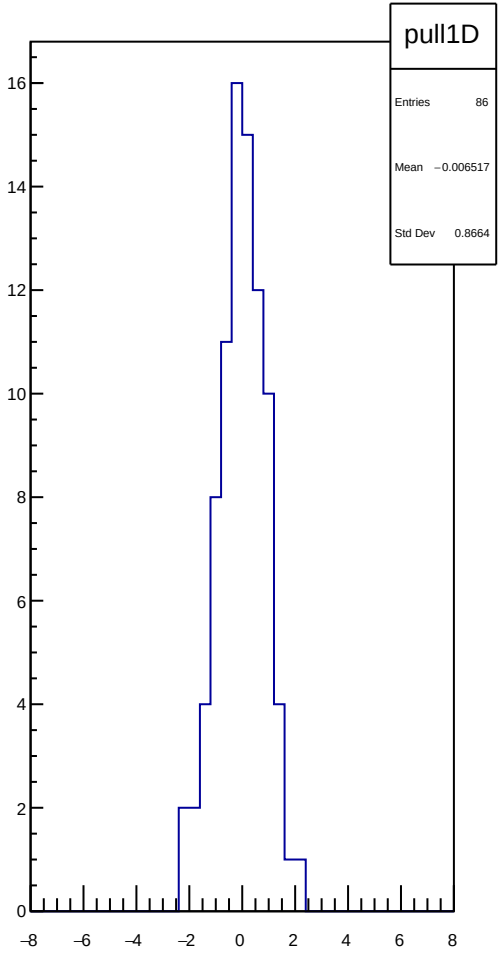

cor_asym_us_avg_rms vs run
χ² / ndf 102.9 / 85
p0 773.5 ± 0.5964
795
790
785
780
775
770
765
760
755
750

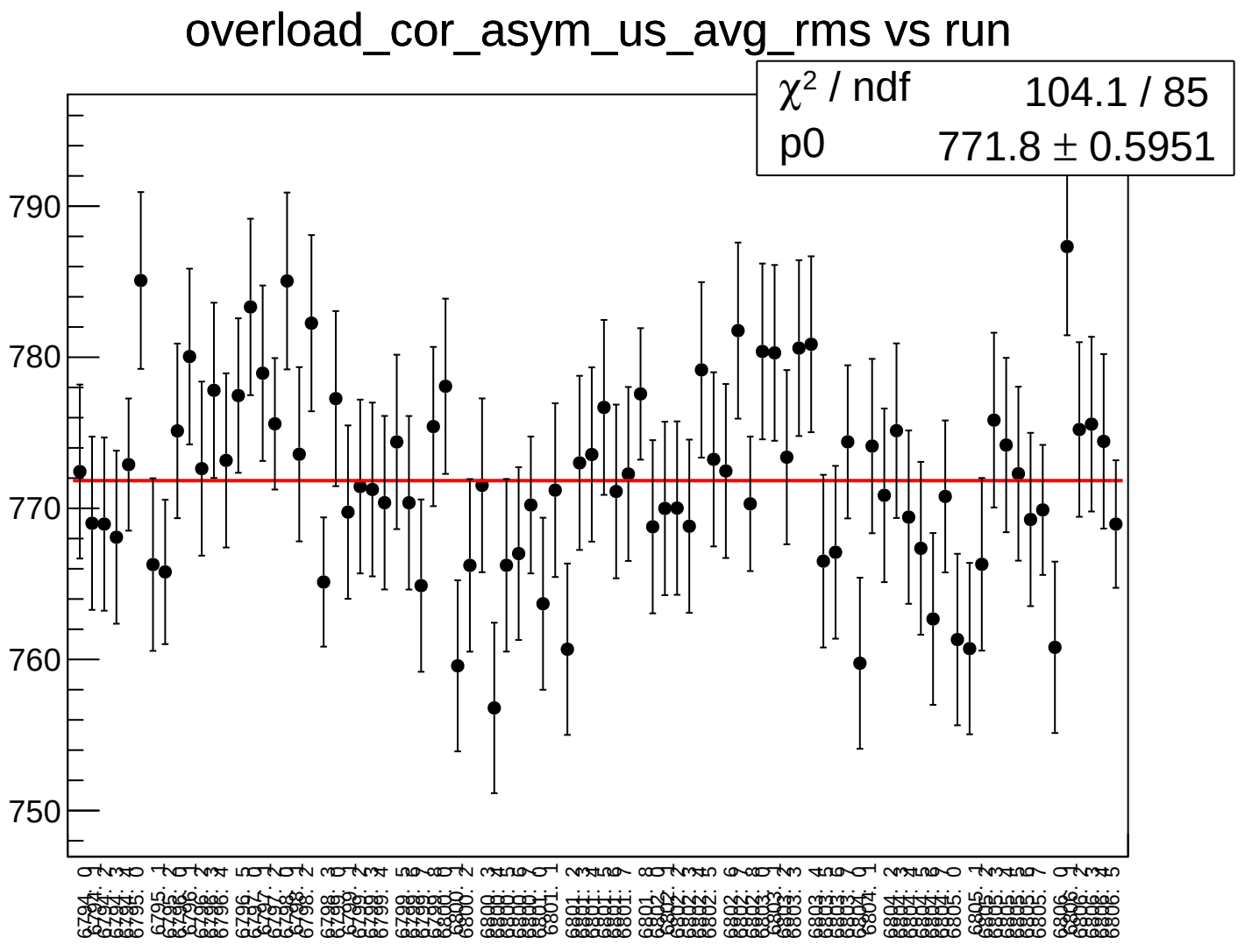

asym_us_avg_cor_correction_mean vs run
χ² / ndf 82.94 / 85
p0 −941.6 ± 1141
pull
Entries 86
Mean −83.24
Std Dev 0

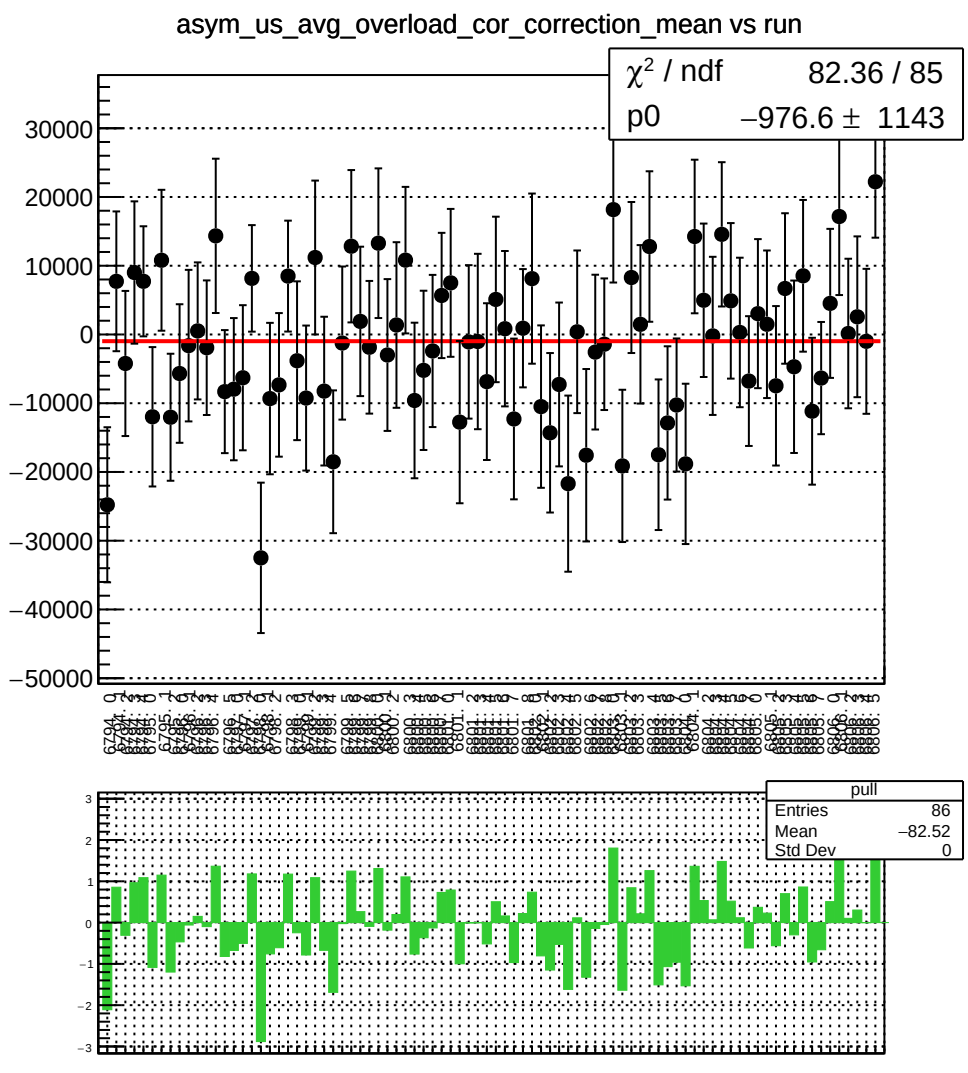

pull1D
Entries 86
Mean −0.02729
Std Dev 0.9817

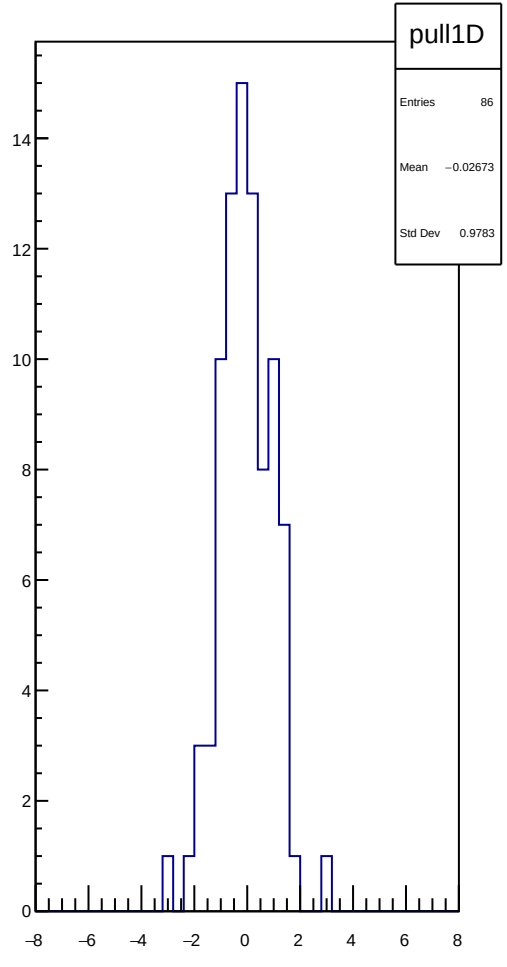

asym_us_avg_cor_correction_rms vs run
χ² / ndf 5083 / 85
p0 1045 ± 0.807
1250
1200
1150
1100
1050
1000
950
900

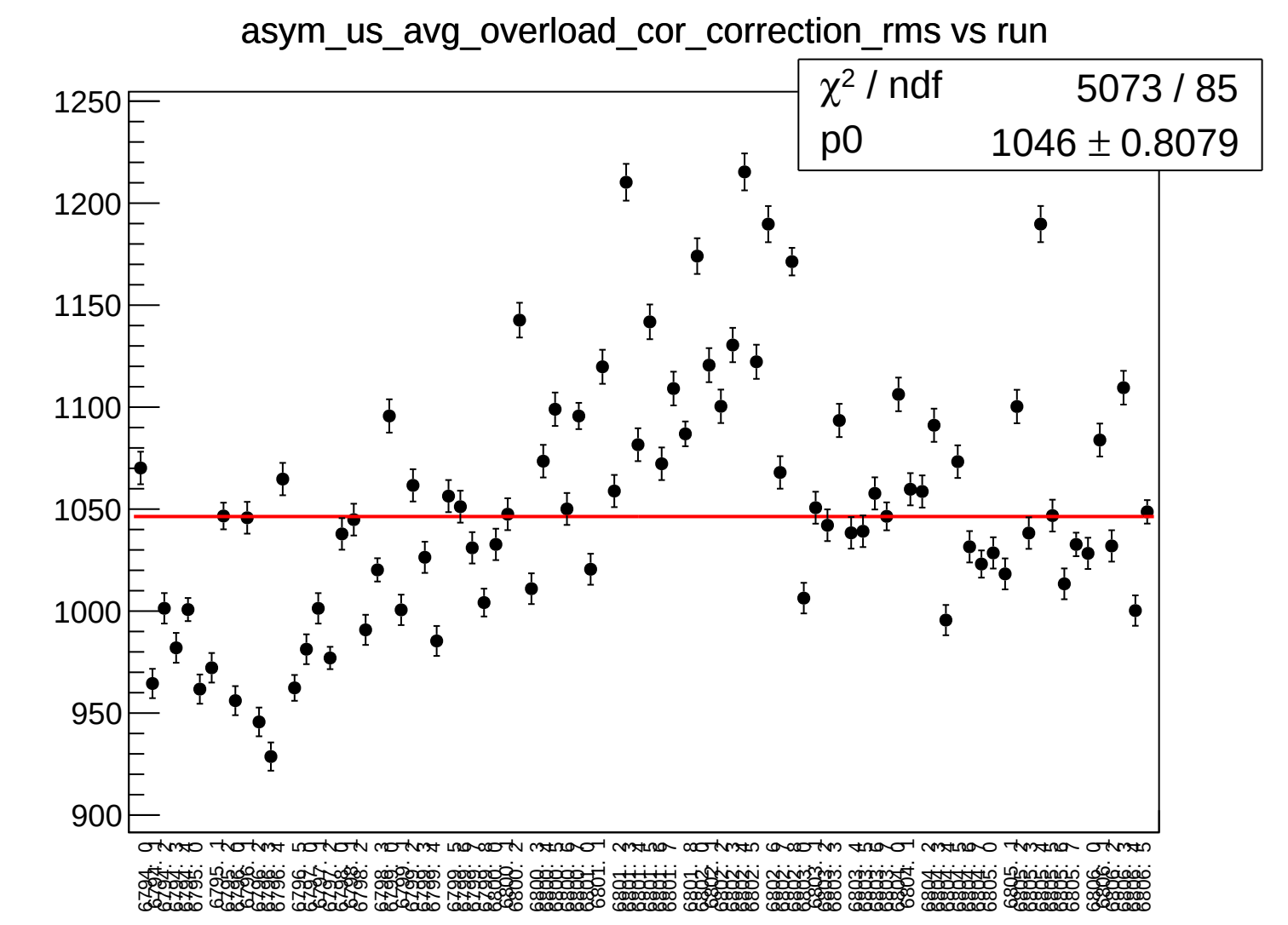

overload_cor_asym_us_avg_mean vs run
χ² / ndf 64.56 / 85
p0 −38.26 ± 841.6
pull
Entries 86
Mean 62.48
Std Dev 63.41

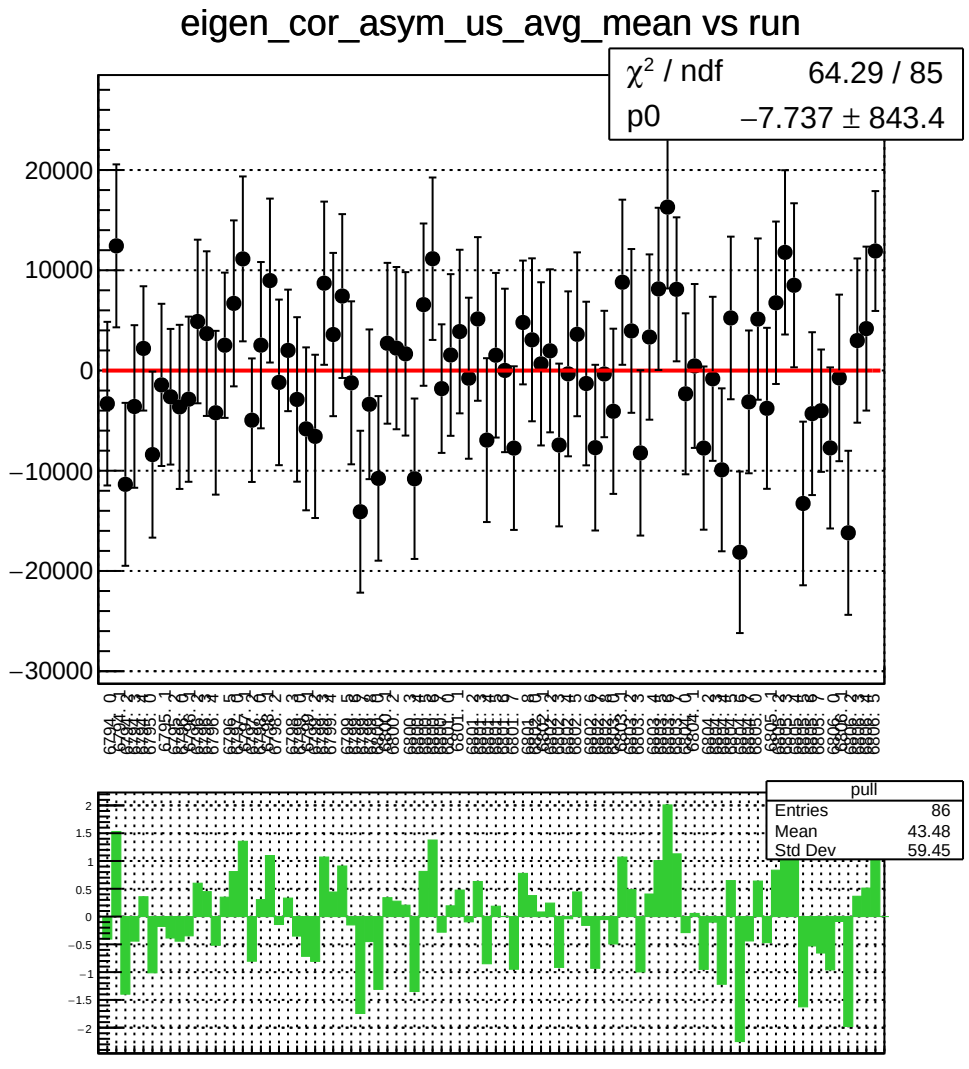

pull1D
Entries 86
Mean −0.006517
Std Dev 0.8664

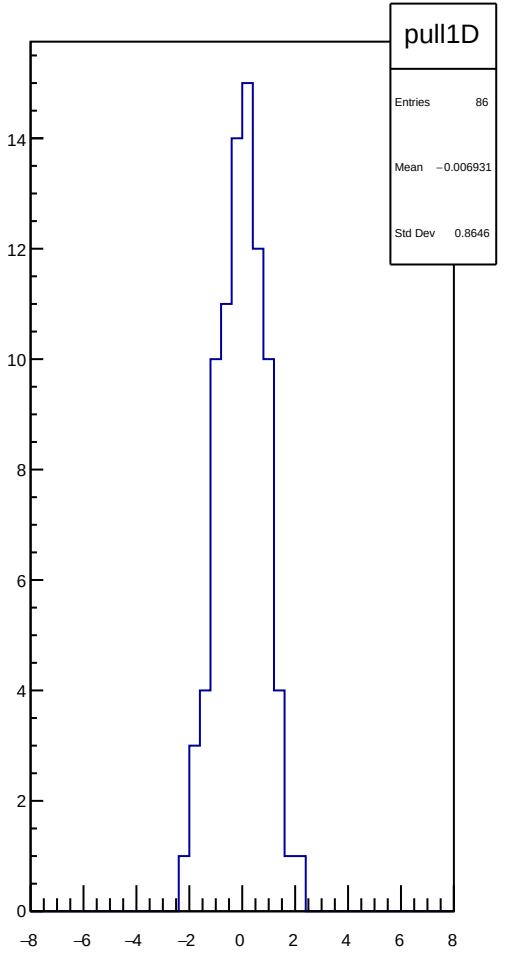

overload_cor_asym_us_avg_rms vs run
χ² / ndf 104.1 / 85
p0 771.8 ± 0.5951
790
780
770
760
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 82.36 / 85
p0 −976.6 ± 1143
pull
Entries 86
Mean −82.52
Std Dev 0


pull1D
Entries 86
Mean −0.02673
Std Dev 0.9783


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 5073 / 85
p0 1046 ± 0.8079
1250
1200
1150
1100
1050
1000
950
900


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 64.29 / 85
p0 −7.737 ± 843.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 43.48
Std Dev 59.45
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 86
Mean −0.006931
Std Dev 0.8646
14
12
10
8
6
4
2
0
−8
−6
−4
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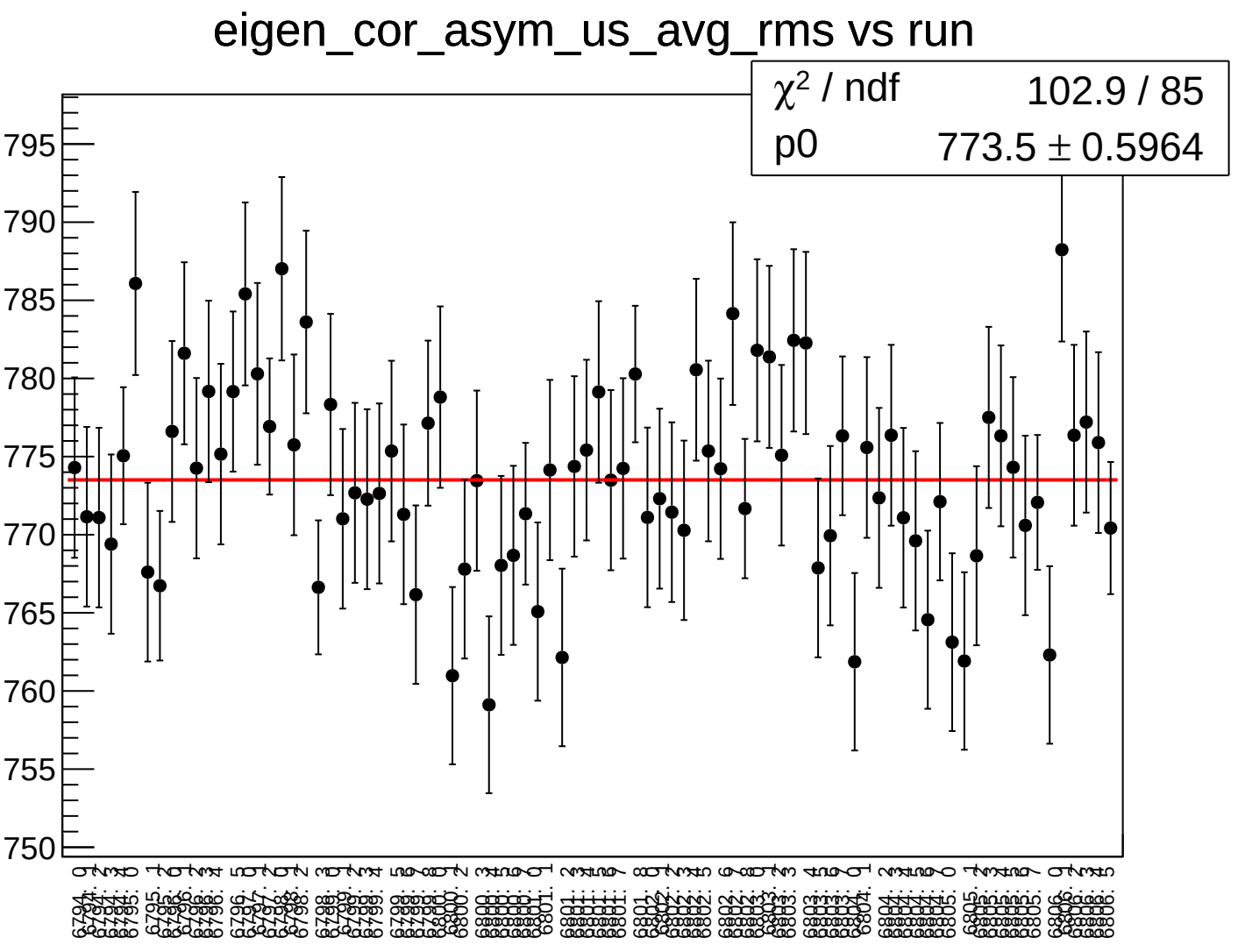
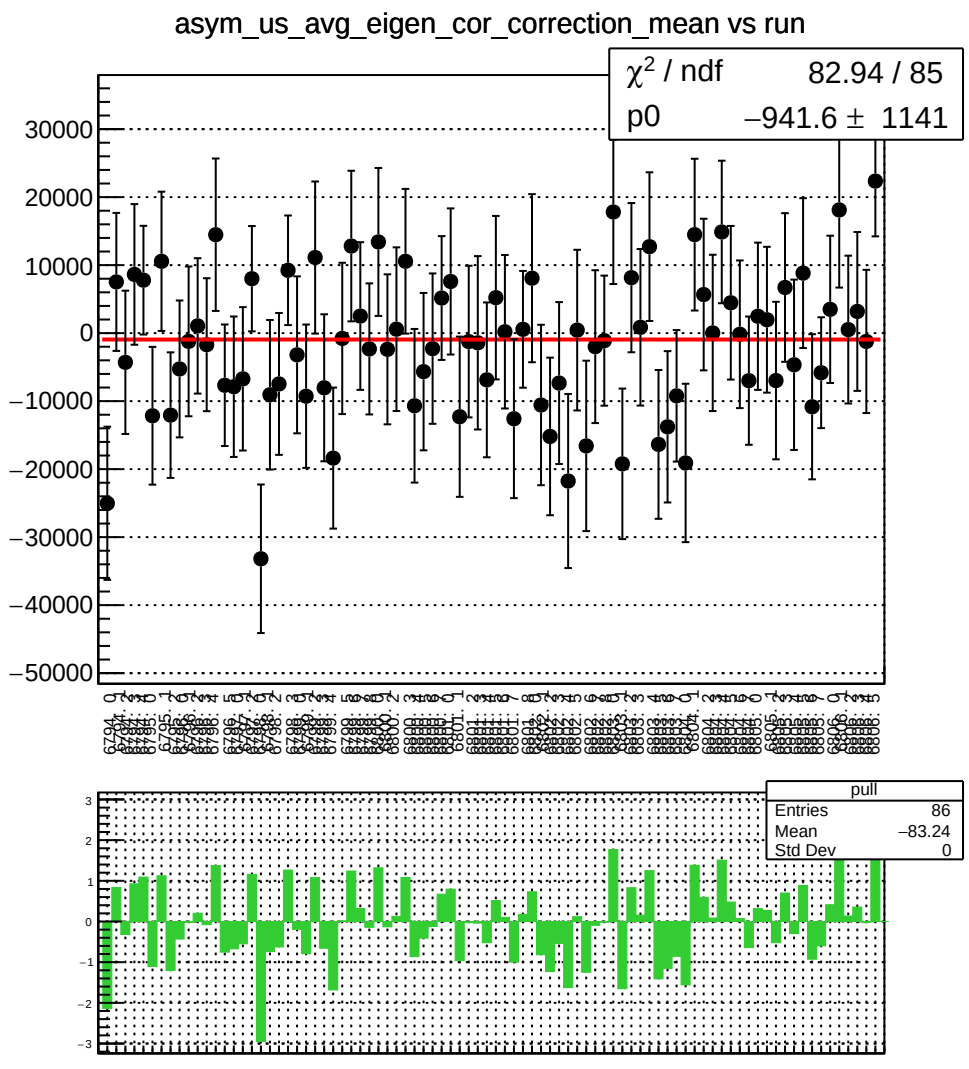
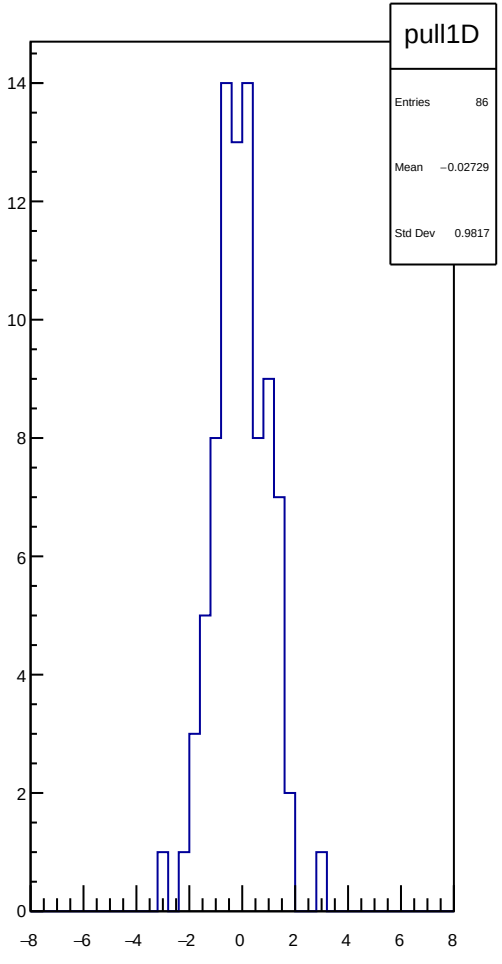
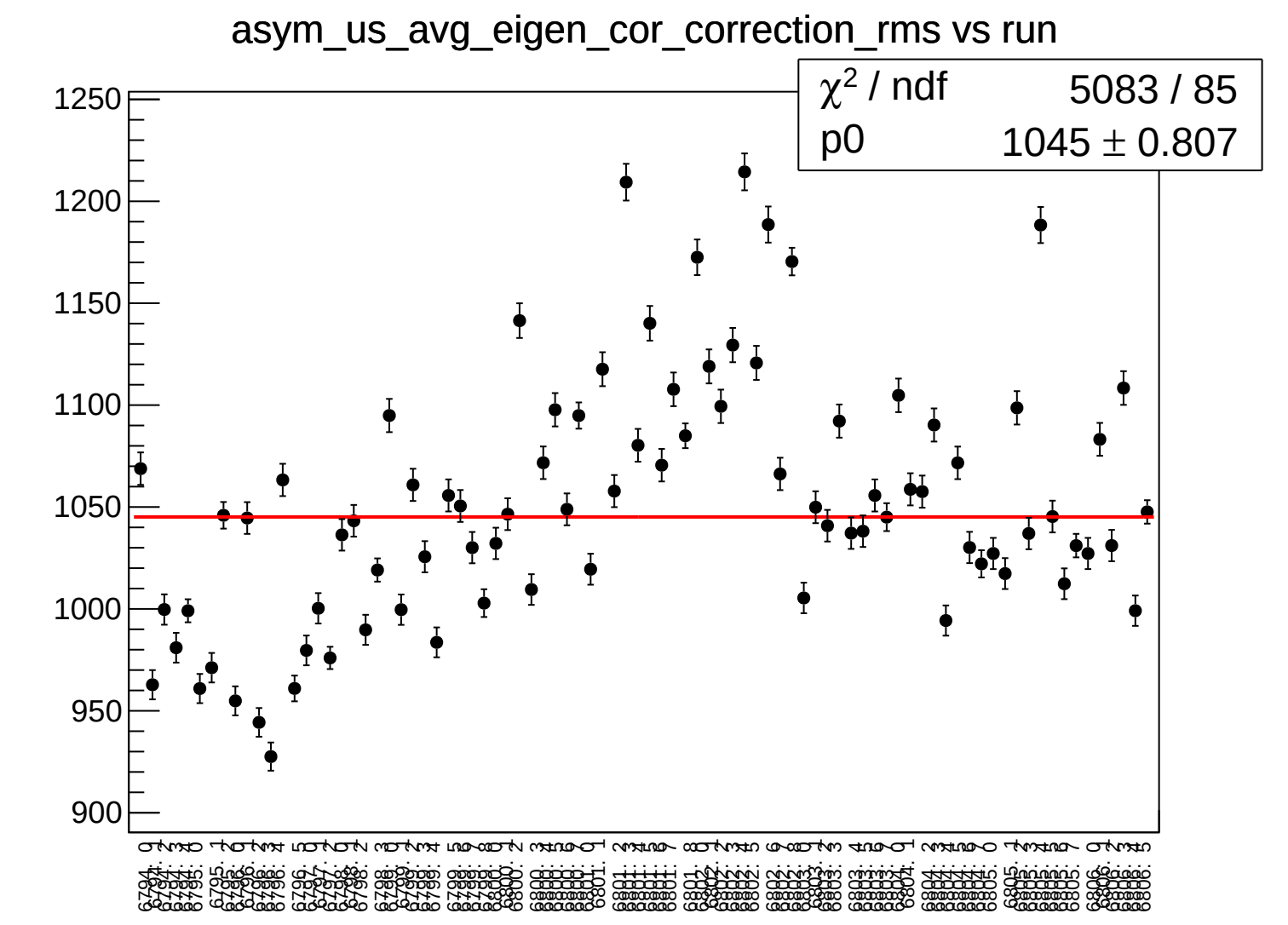
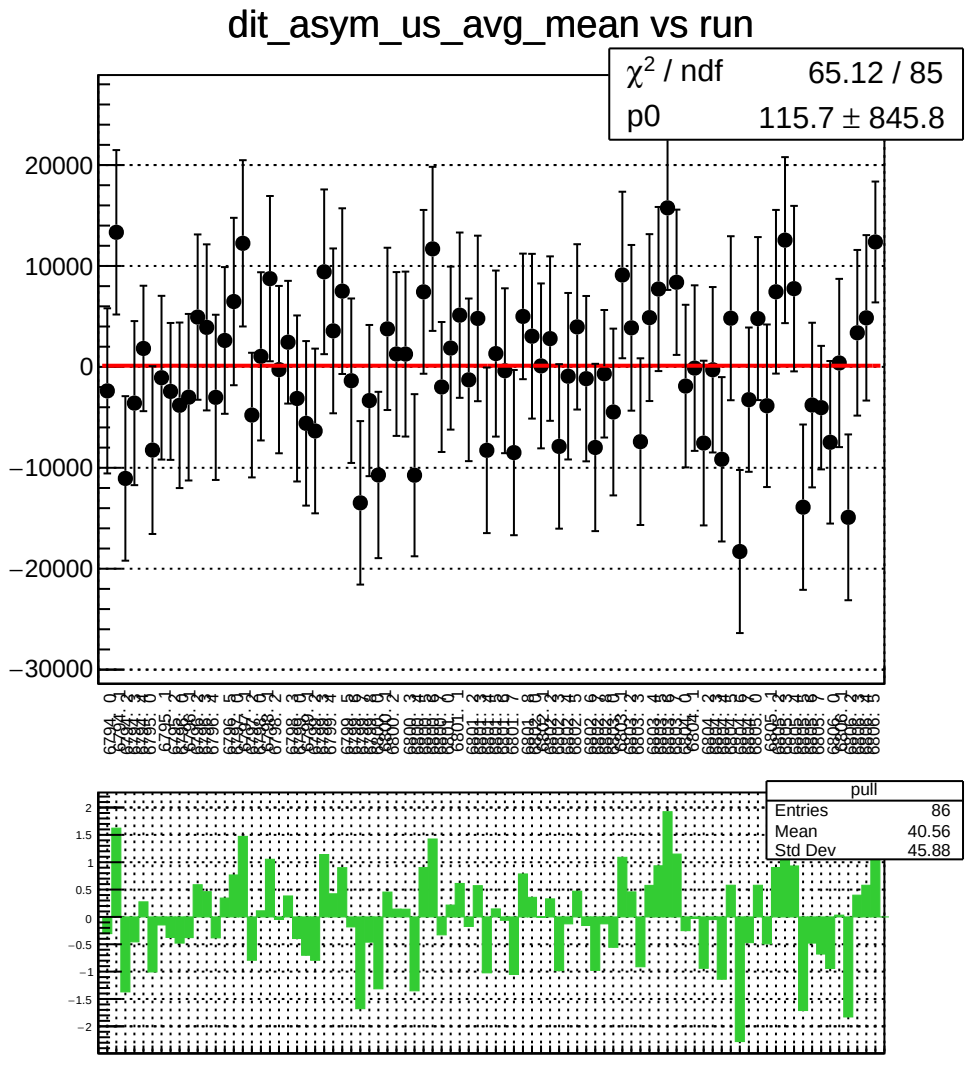
2
4
6
8

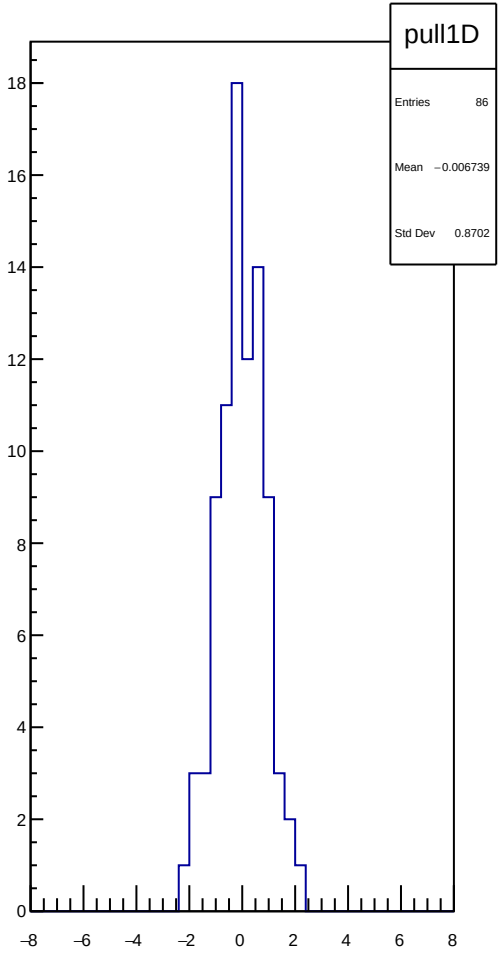

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 102.9 / 85
p0 773.5 ± 0.5964
795
790
785
780
775
770
765
760
755
750

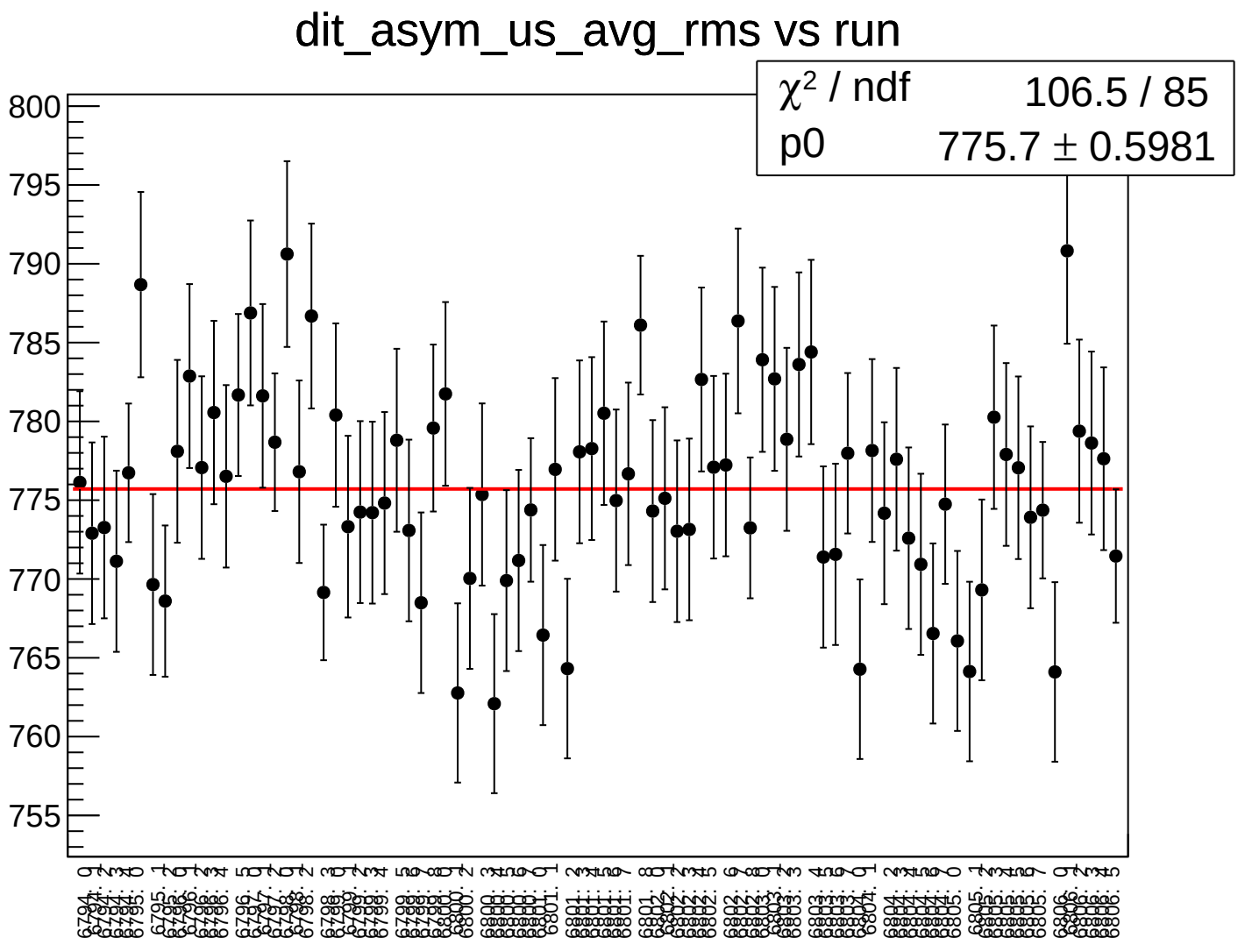

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.94 / 85
p0 −941.6 ± 1141
pull
Entries 86
Mean −83.24
Std Dev 0

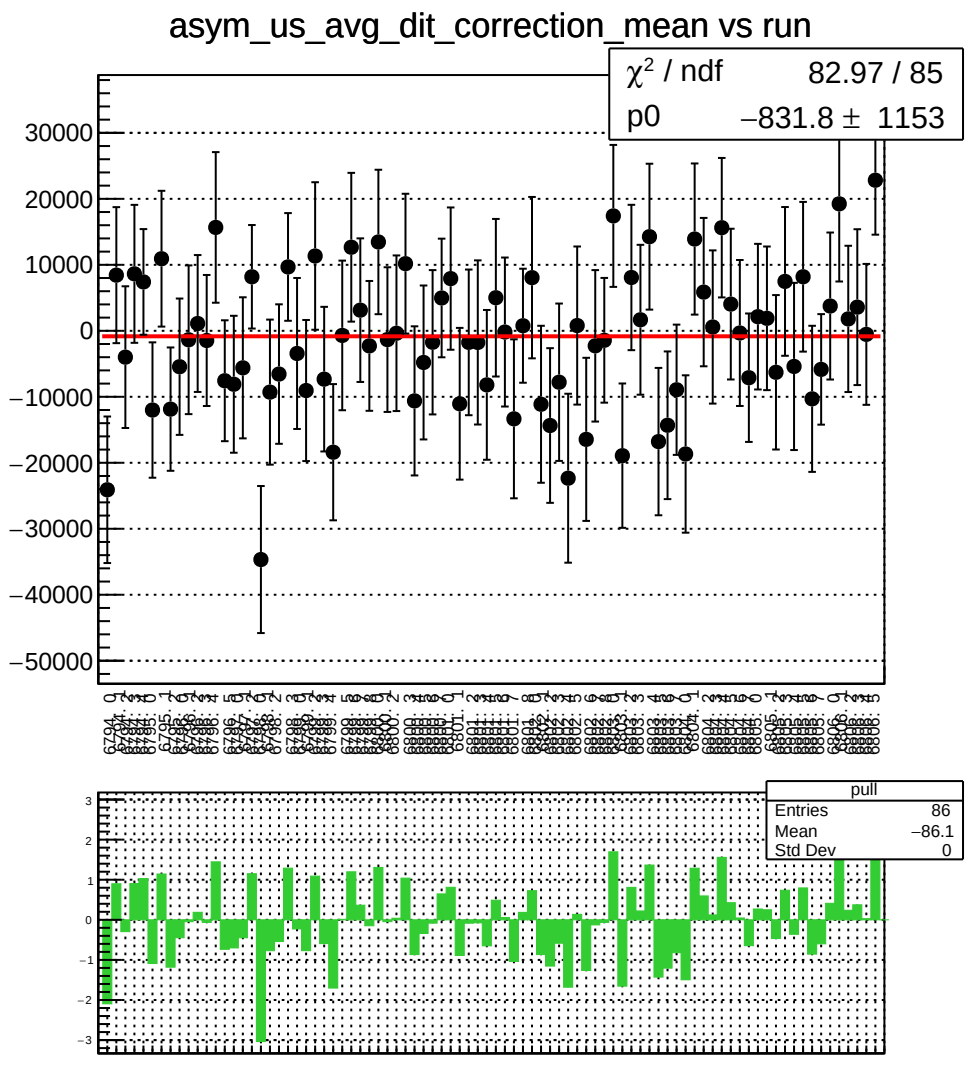

pull1D
Entries 86
Mean −0.02729
Std Dev 0.9817

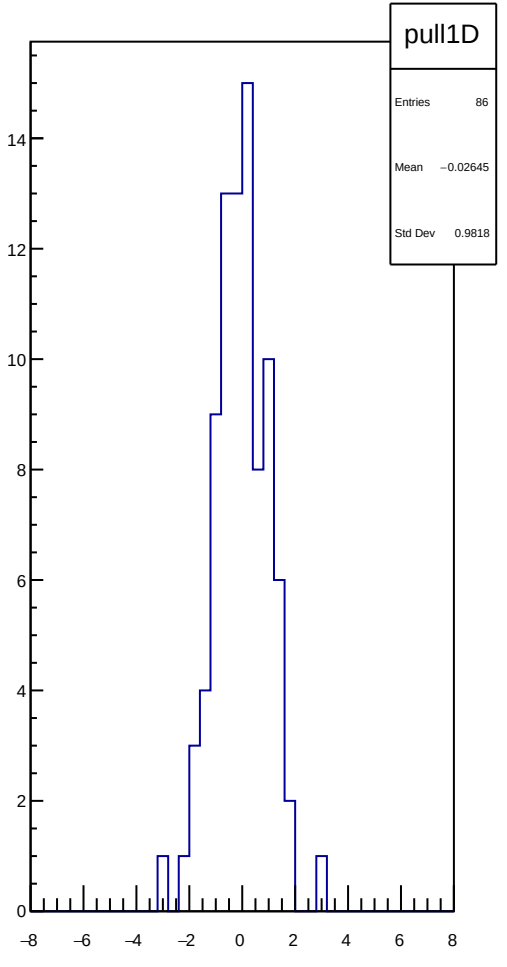

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 5083 / 85
p0 1045 ± 0.807
1250
1200
1150
1100
1050
1000
950
900

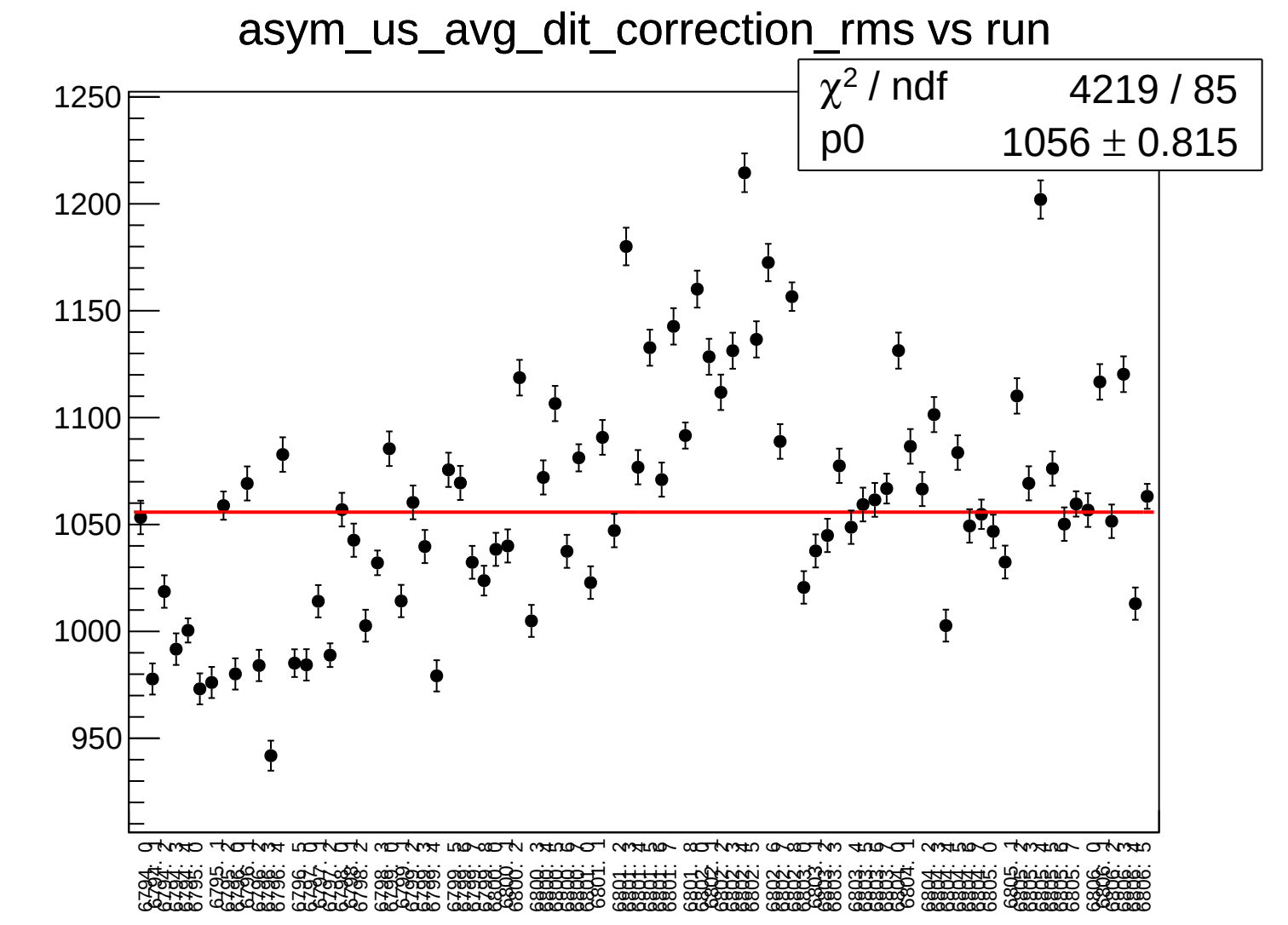

dit_asym_us_avg_mean vs run
χ² / ndf 65.12 / 85
p0 115.7 ± 845.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 40.56
Std Dev 45.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

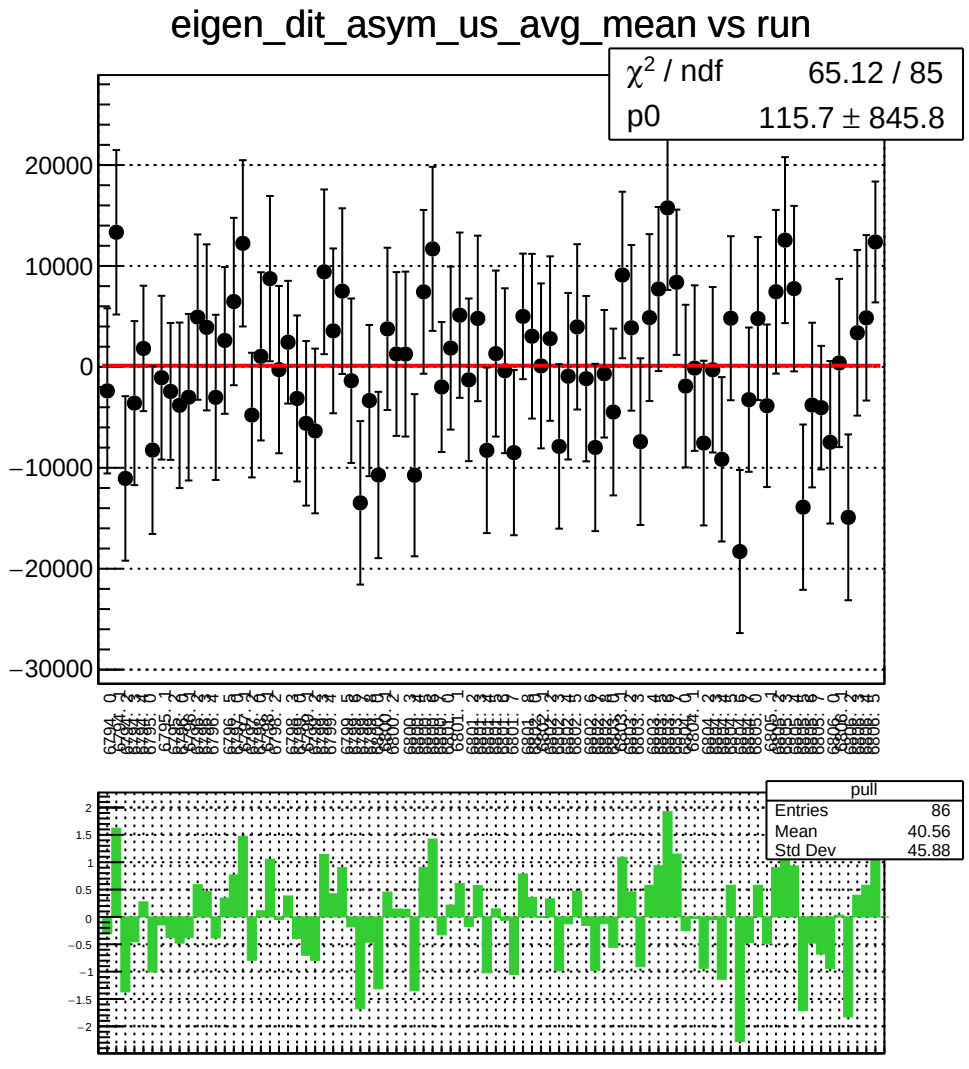

pull1D
Entries 86
Mean −0.006739
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

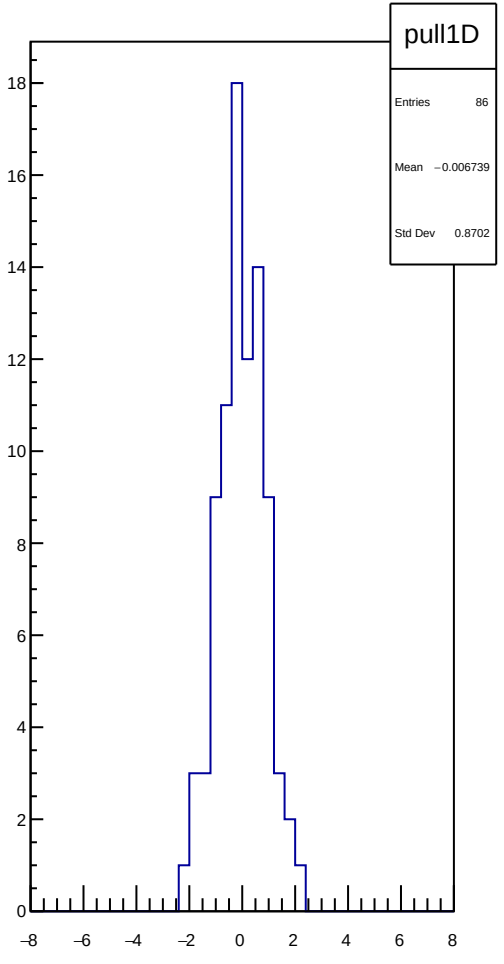

dit_asym_us_avg_rms vs run
χ² / ndf 106.5 / 85
p0 775.7 ± 0.5981
800
795
790
785
780
775
770
765
760
755

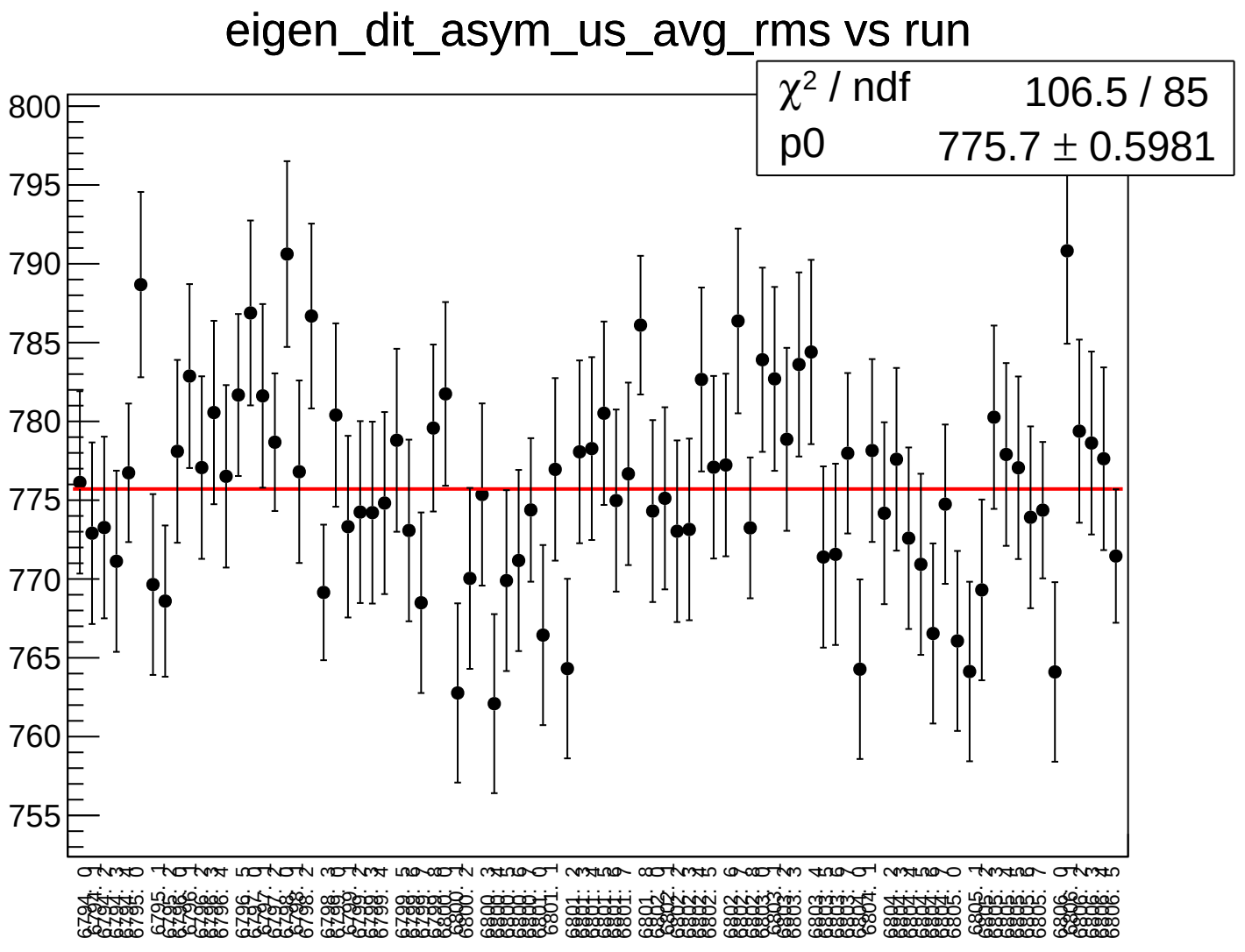

asym_us_avg_dit_correction_mean vs run
χ² / ndf 82.97 / 85
p0 −831.8 ± 1153
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 86
Mean −86.1
Std Dev 0
3
2
1
0
−1
−2
−3

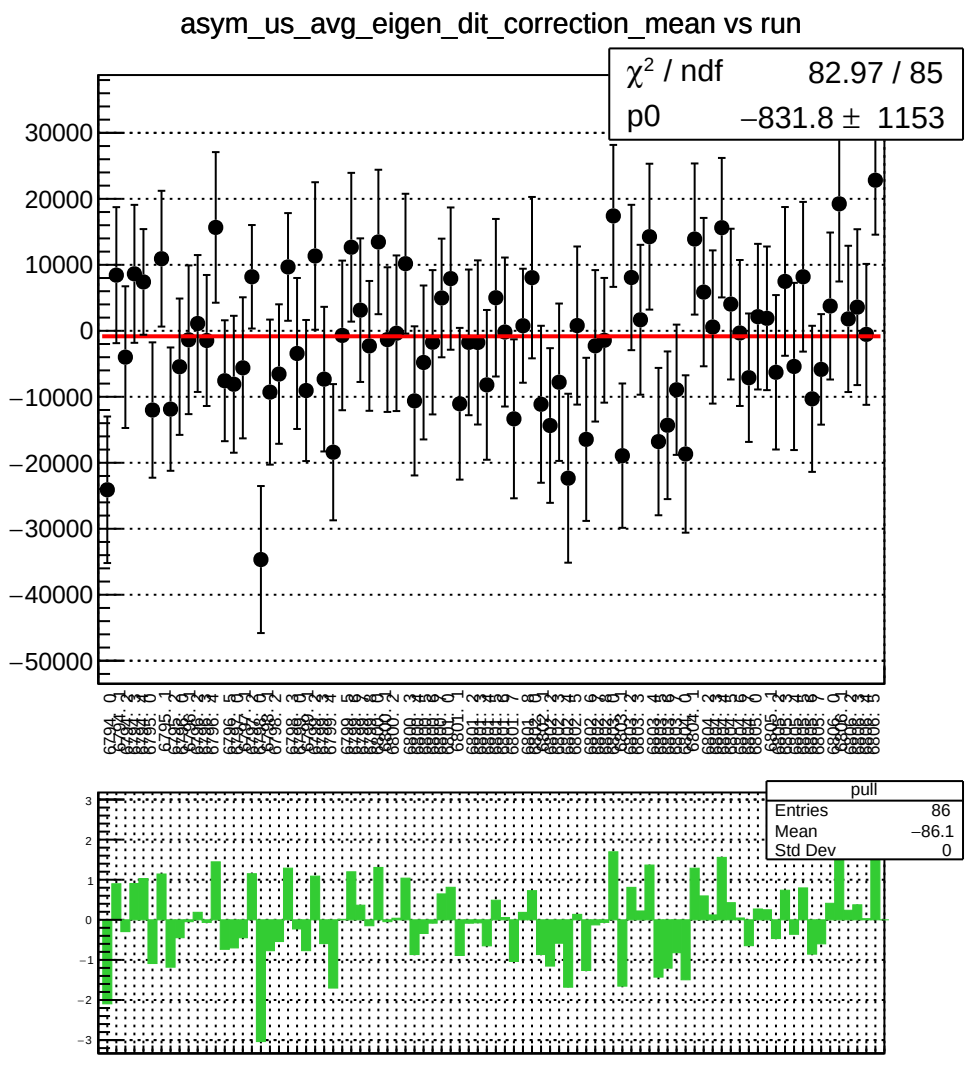

pull1D
Entries 86
Mean −0.02645
Std Dev 0.9818
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

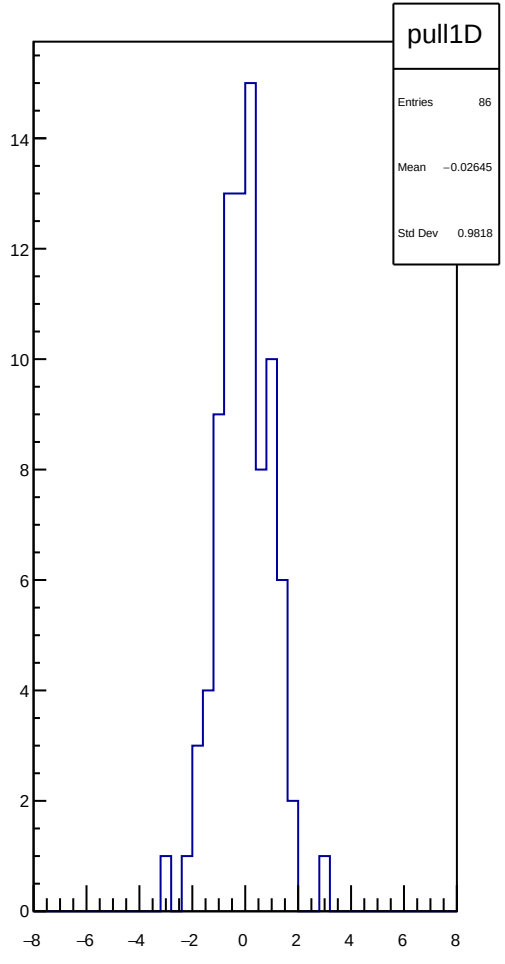

asym_us_avg_dit_correction_rms vs run
χ² / ndf 4219 / 85
p0 1056 ± 0.815
1250
1200
1150
1100
1050
1000
950

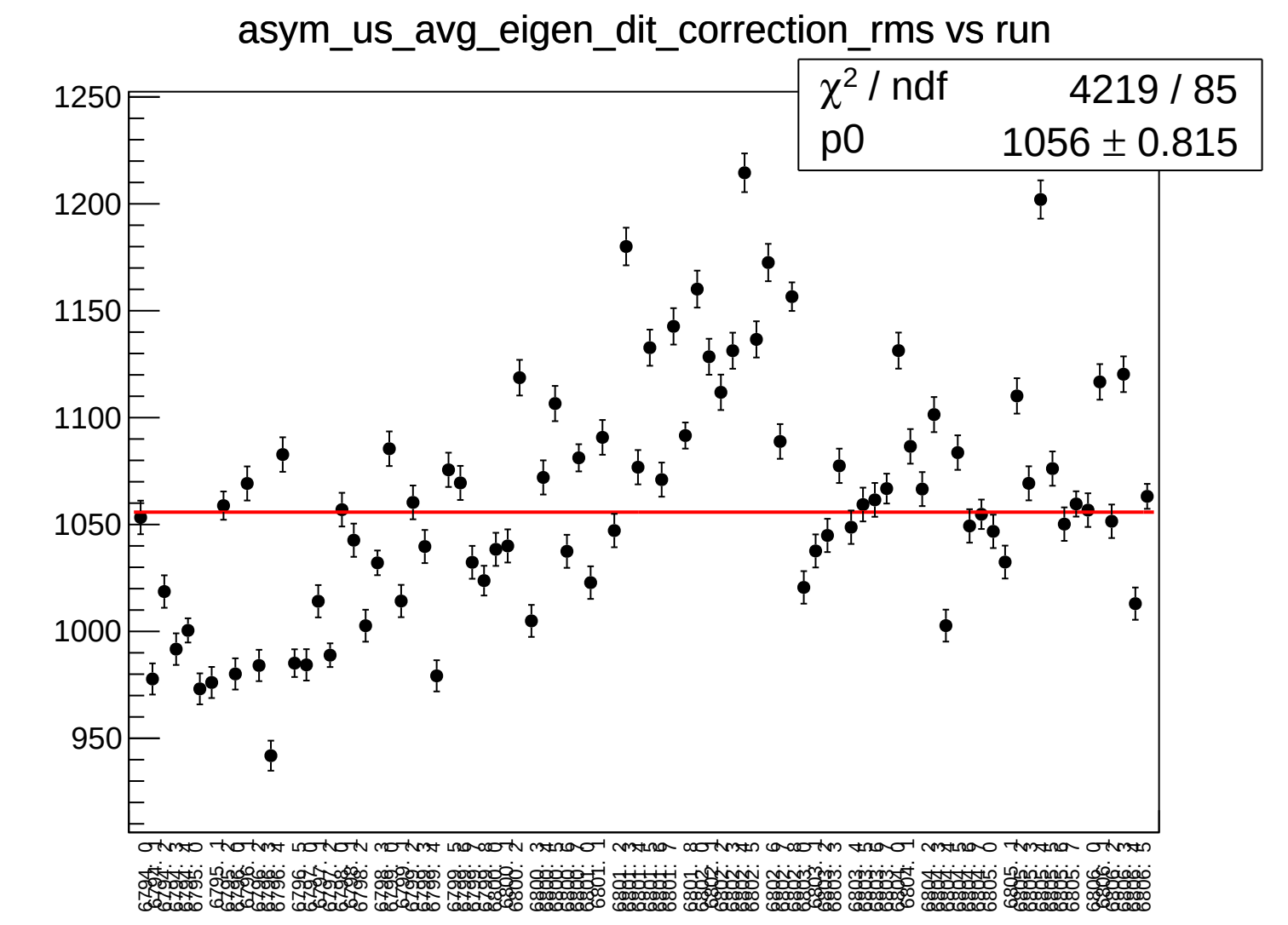

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 65.12 / 85
p0 115.7 ± 845.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 40.56
Std Dev 45.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

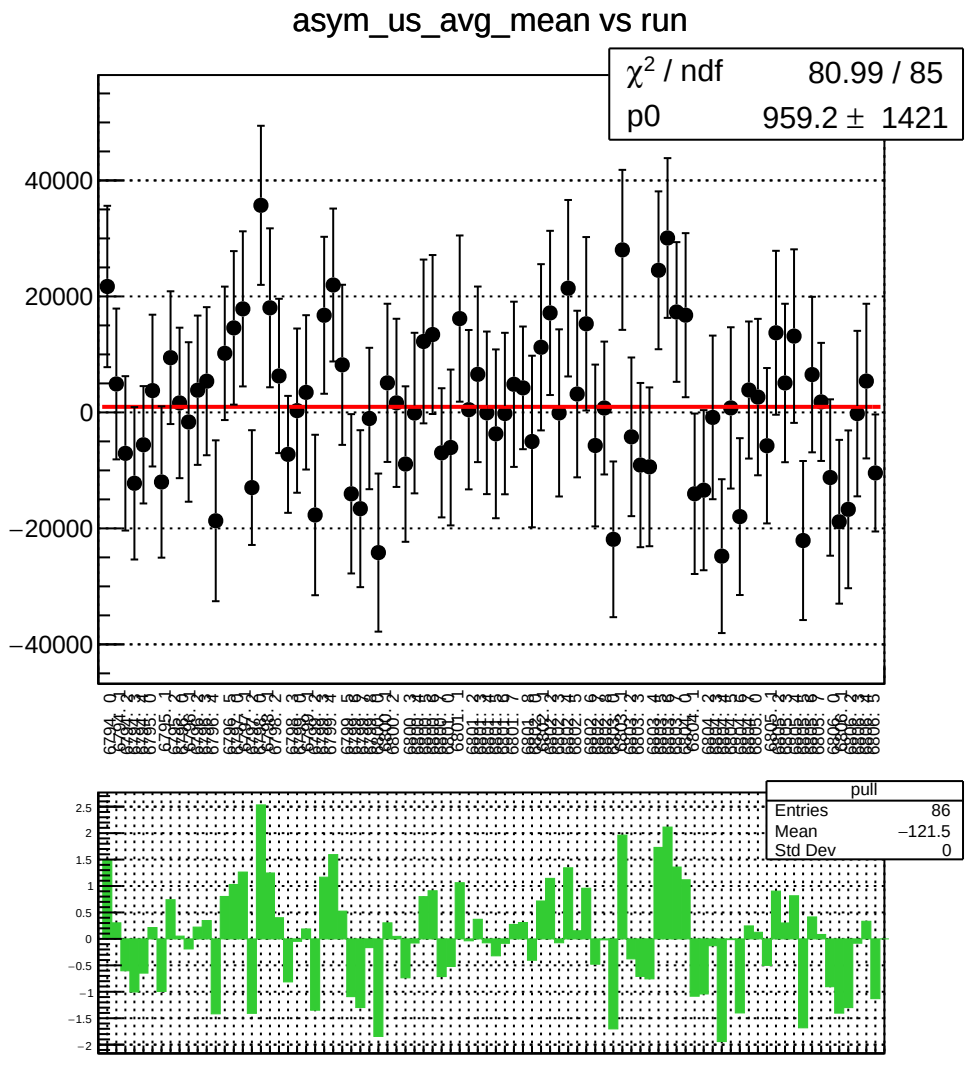

pull1D
Entries 86
Mean −0.006739
Std Dev 0.8702
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

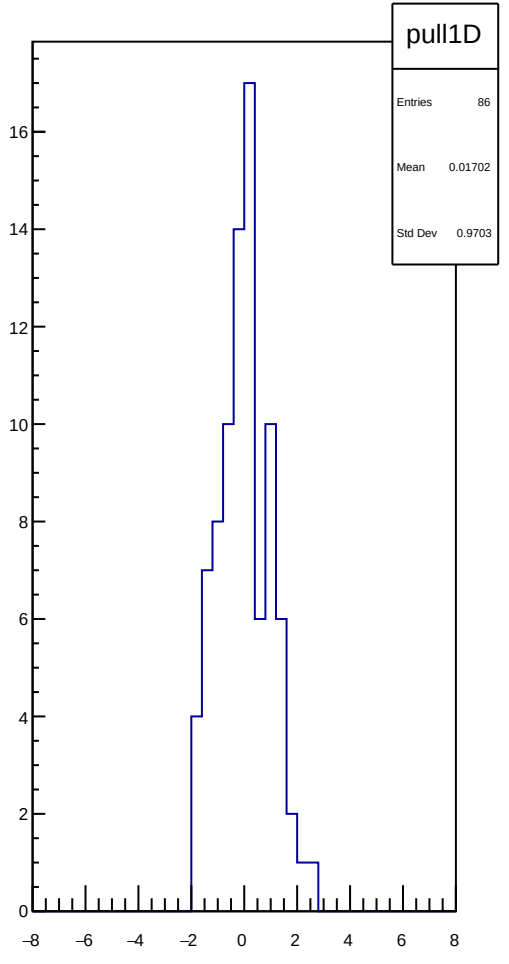

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 106.5 / 85
p0 775.7 ± 0.5981
800
795
790
785
780
775
770
765
760
755

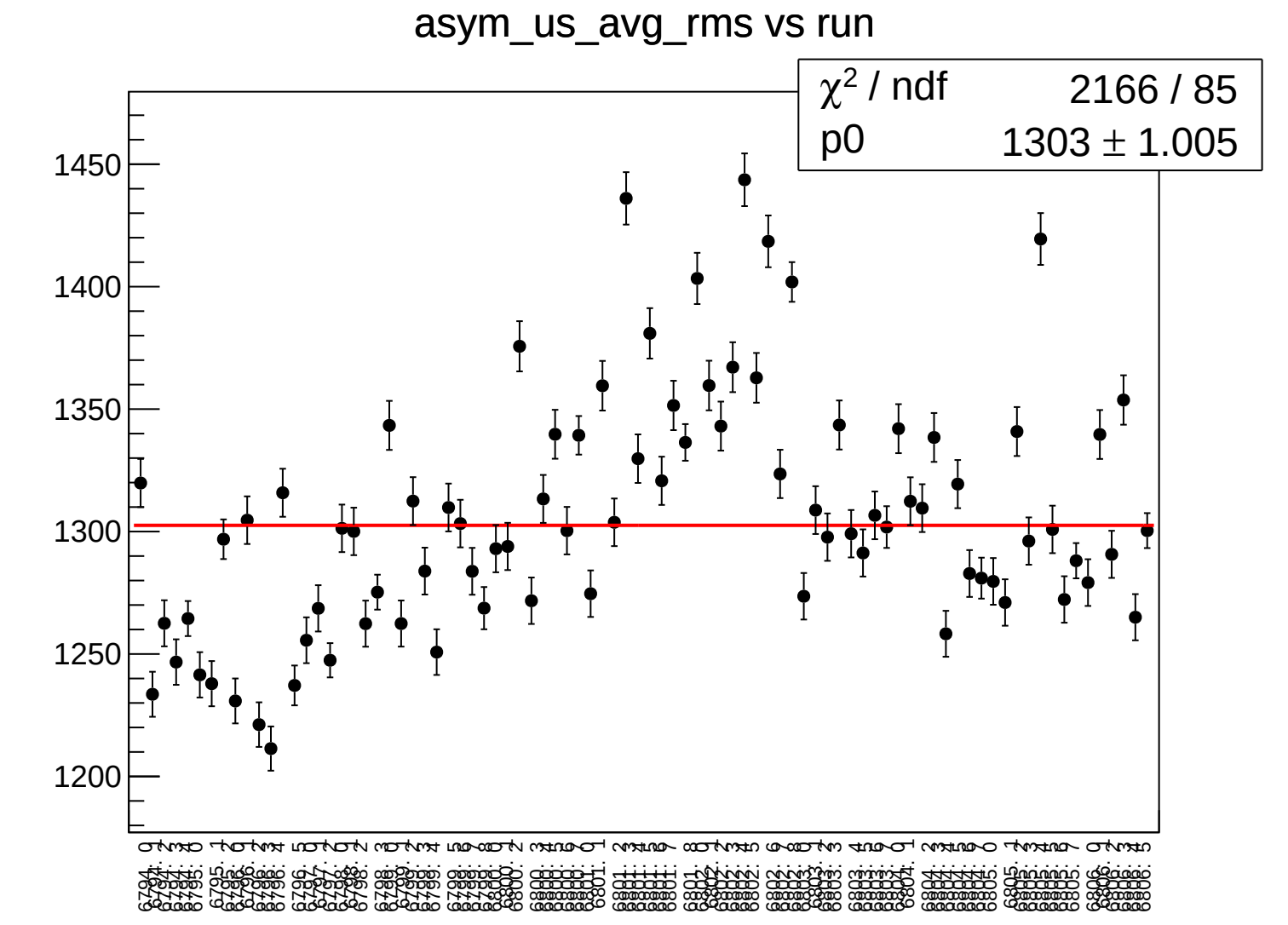

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.97 / 85
p0 −831.8 ± 1153
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 86
Mean −86.1
Std Dev 0
3
2
1
0
−1
−2
−3

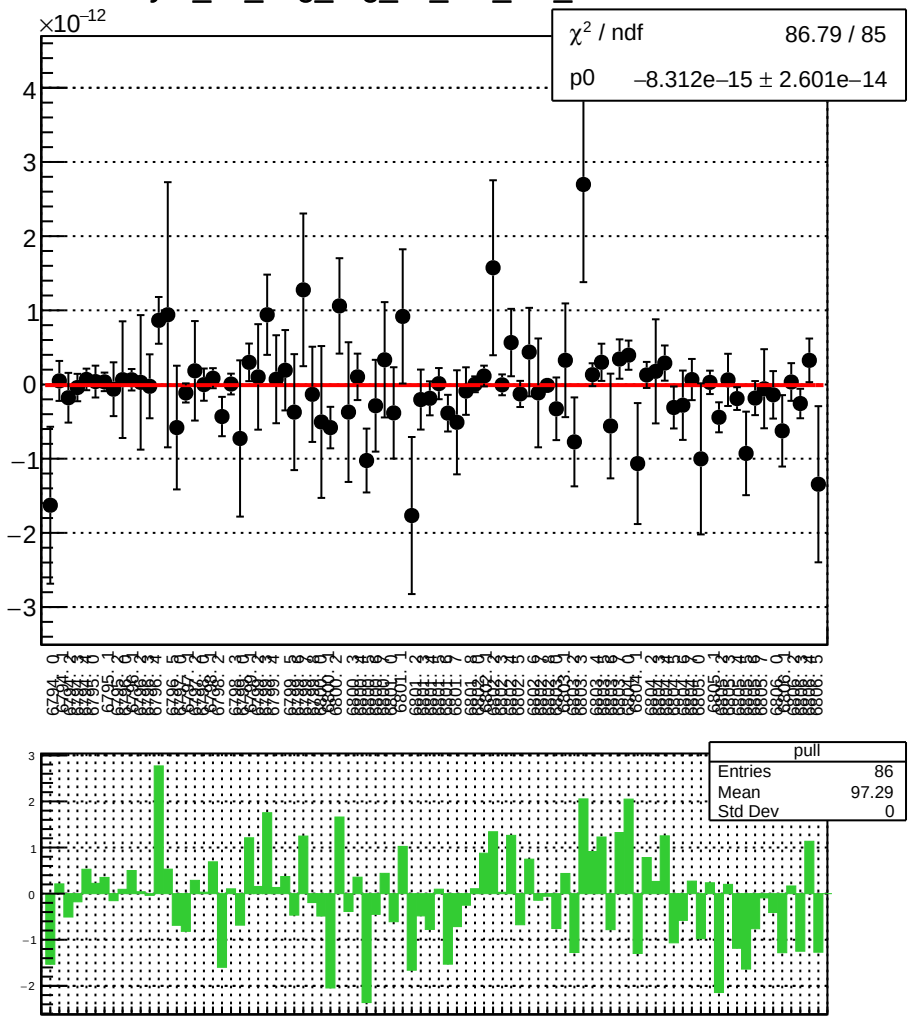

pull1D
Entries 86
Mean −0.02645
Std Dev 0.9818
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

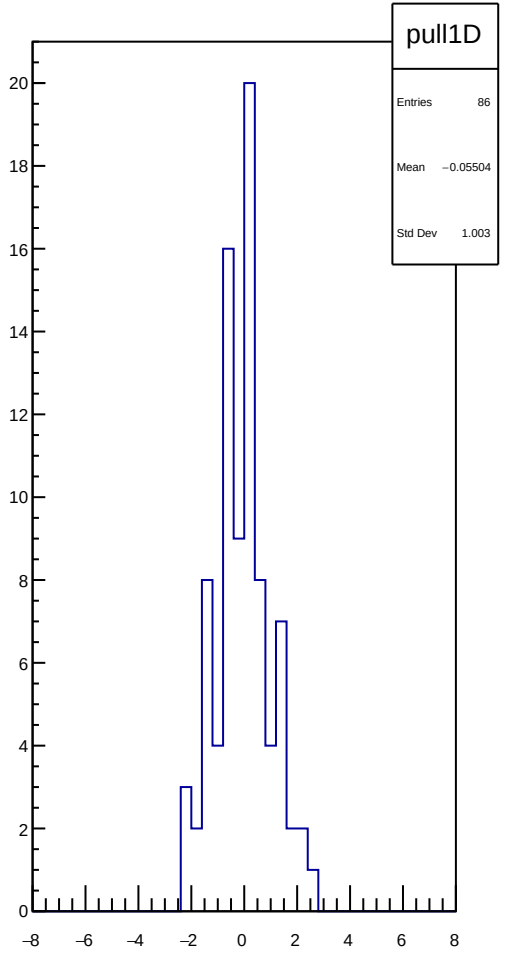

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 4219 / 85
p0 1056 ± 0.815
1250
1200
1150
1100
1050
1000
950

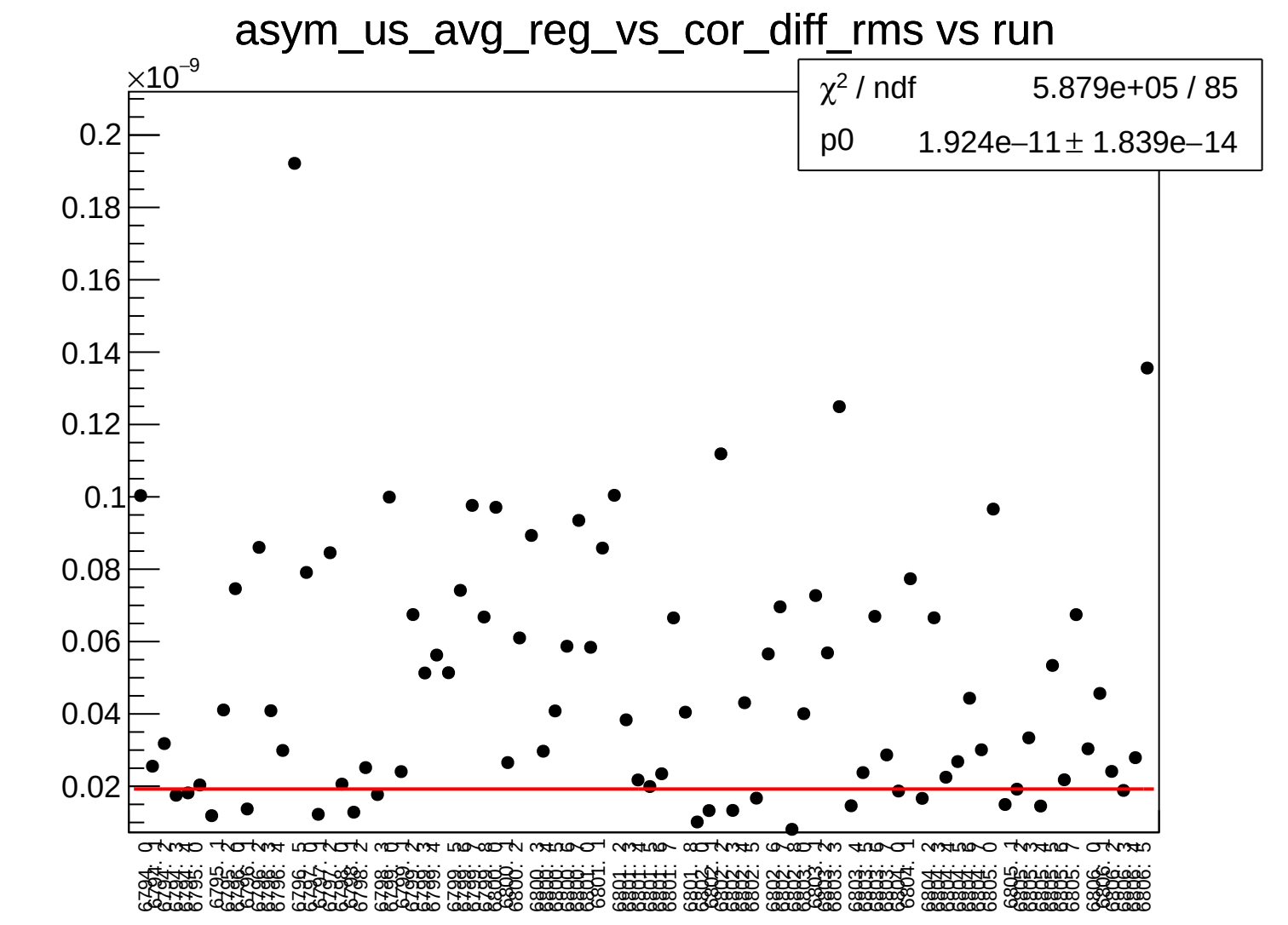

asym_us_avg_mean vs run
χ² / ndf 80.99 / 85
p0 959.2 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −121.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

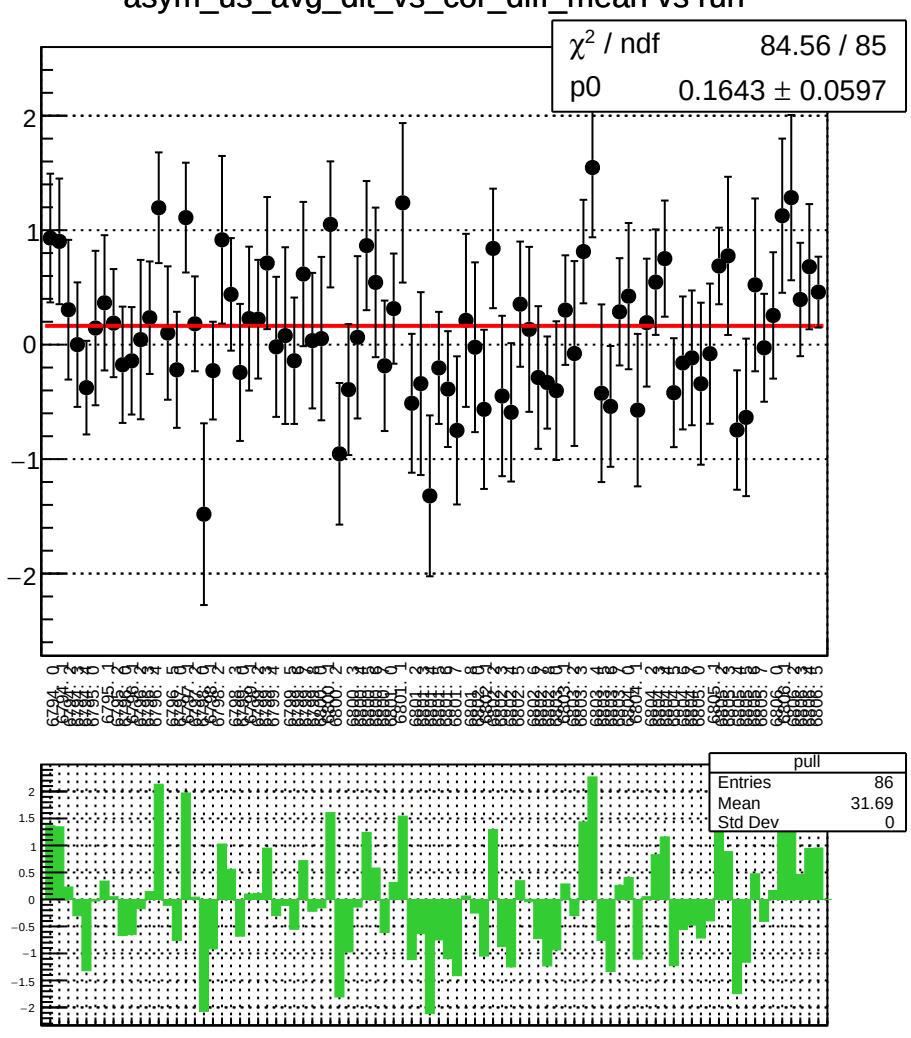

pull1D
Entries 86
Mean 0.01702
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

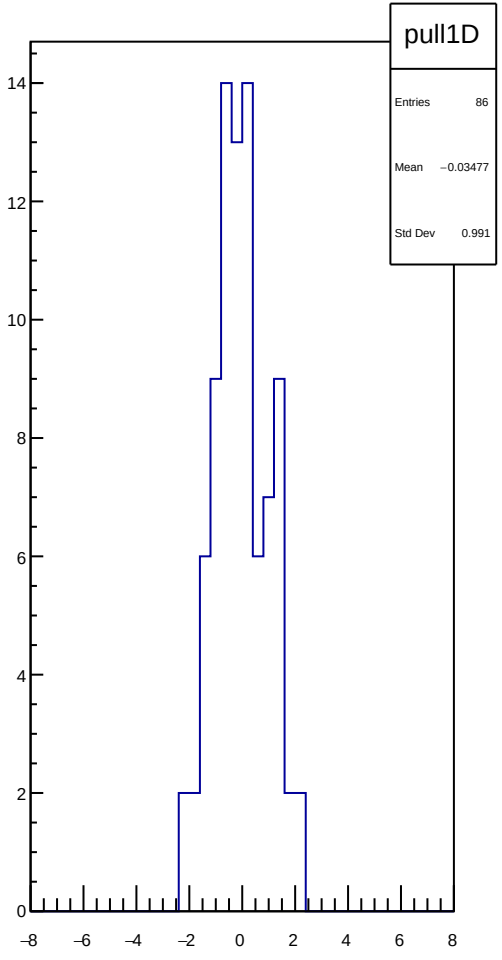

asym_us_avg_rms vs run
χ^2 / ndf 2166 / 85
p0 1303 ± 1.005
1450
1400
1350
1300
1250
1200

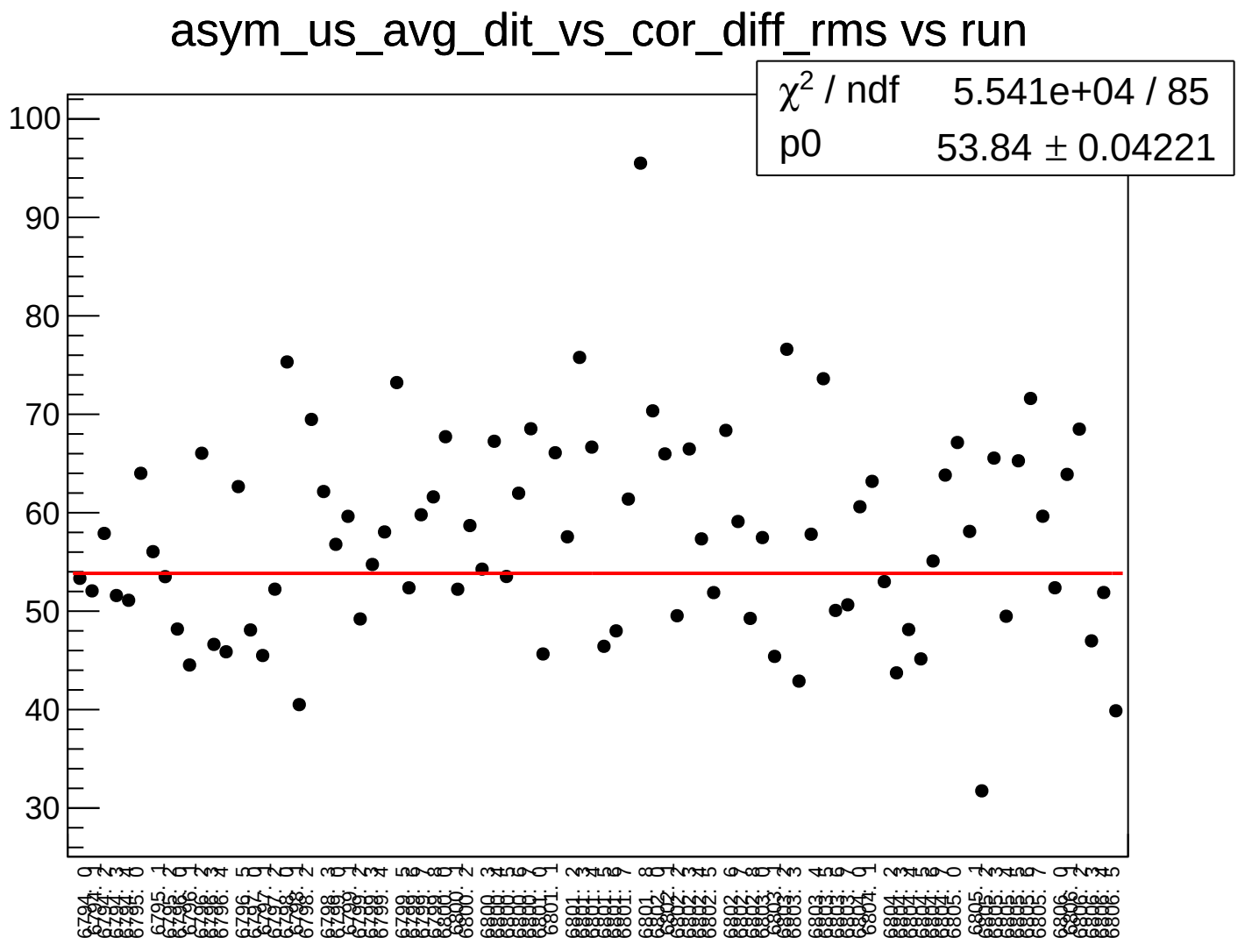

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.79 / 85
p0 −8.312e−15 ± 2.601e−14
pull
Entries 86
Mean 97.29
Std Dev 0

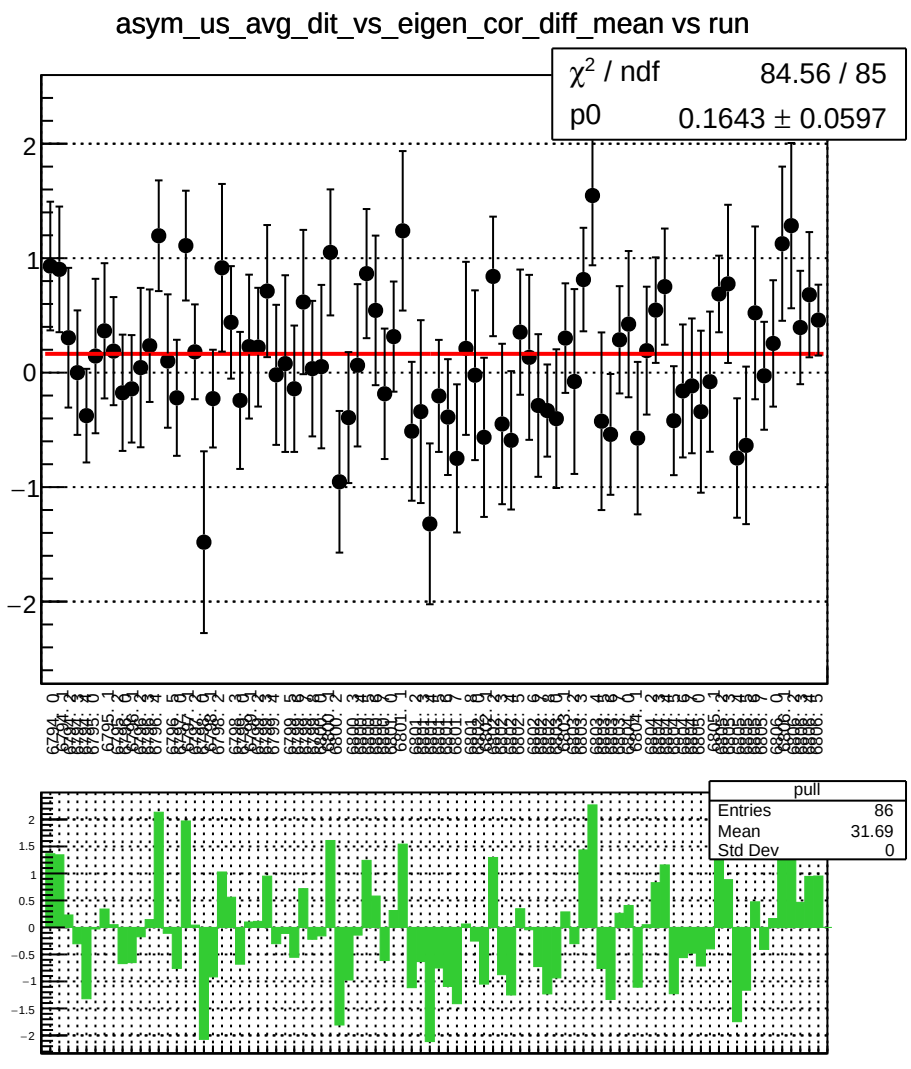

pull1D
Entries 86
Mean −0.05504
Std Dev 1.003

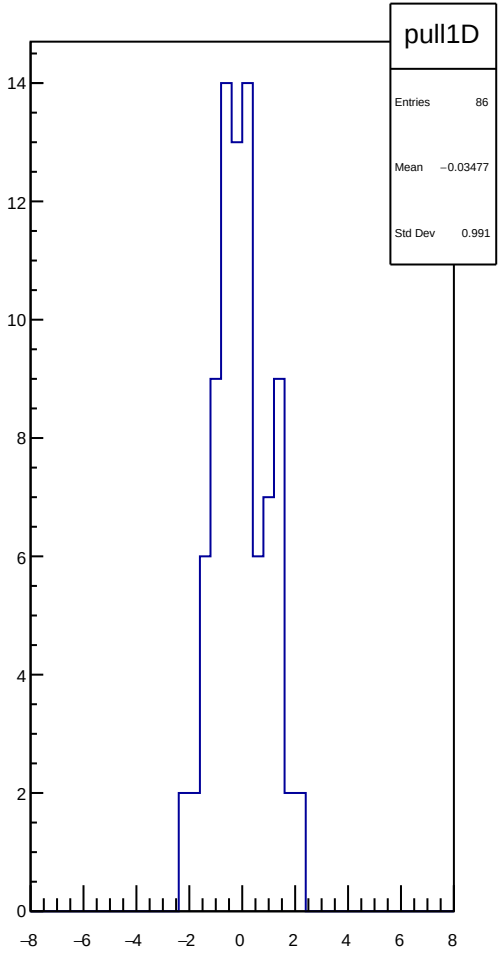

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.879e+05 / 85
p0 1.924e−11 ± 1.839e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

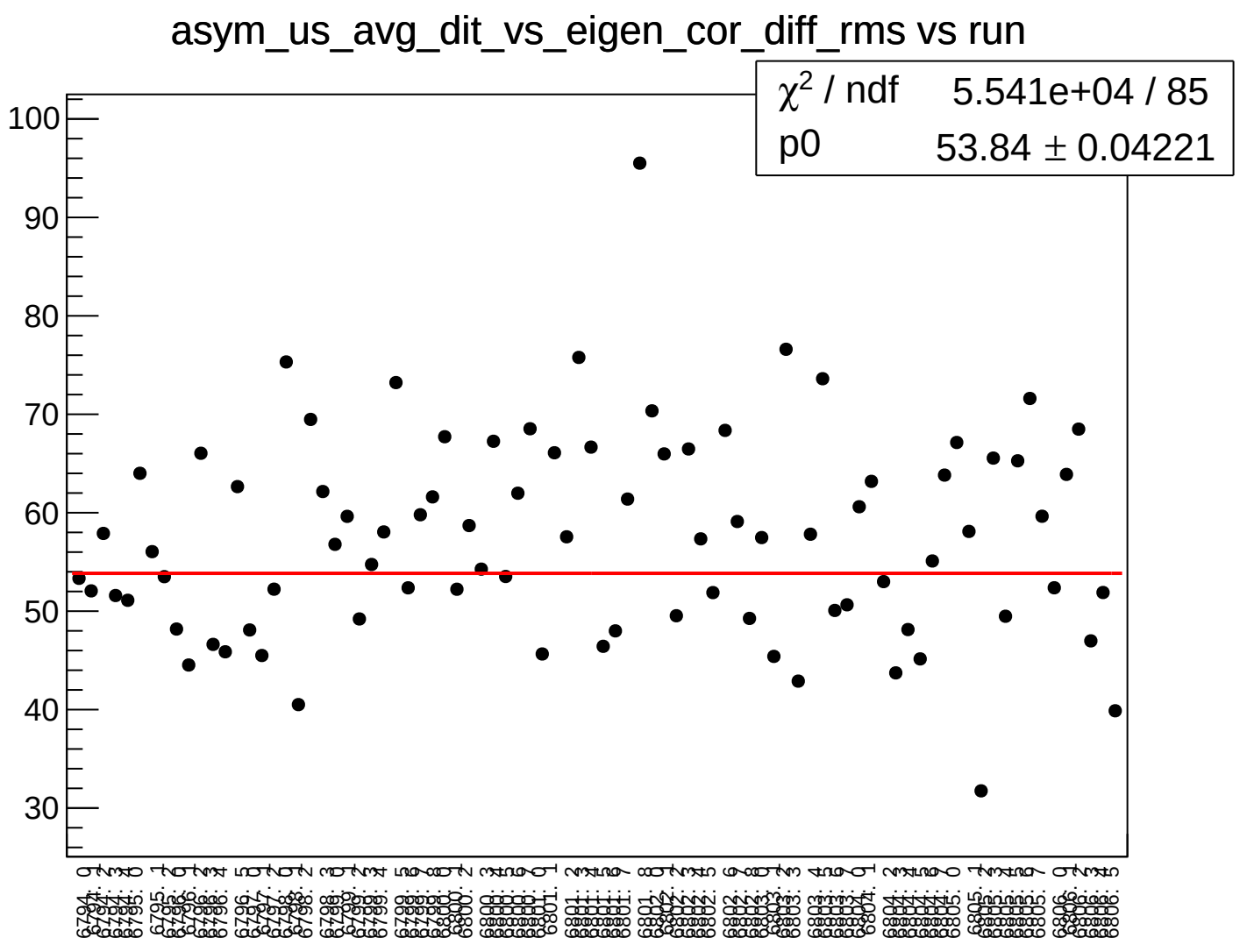

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 85
p0 0.1643 ± 0.0597
pull
Entries 86
Mean 31.69
Std Dev 0

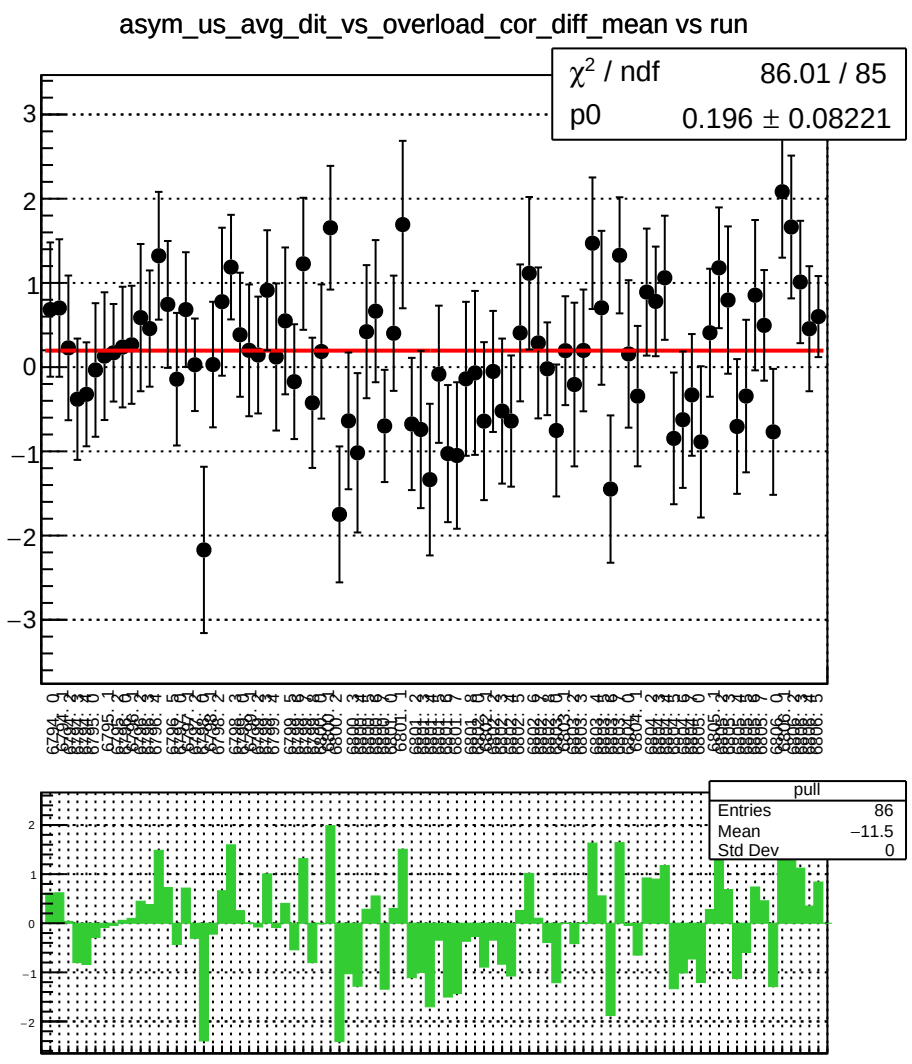

pull1D
Entries 86
Mean −0.03477
Std Dev 0.991

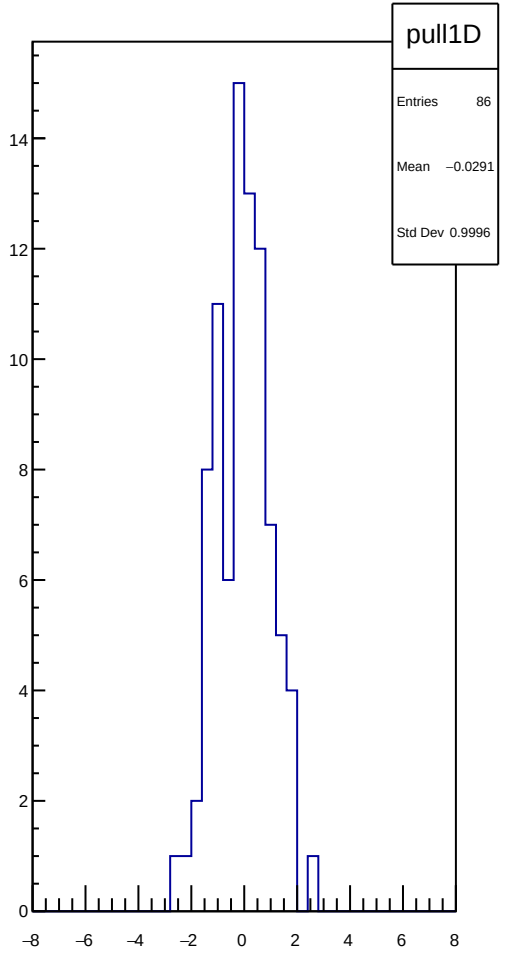

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.541e+04 / 85
p0 53.84 ± 0.04221
100
90
80
70
60
50
40
30

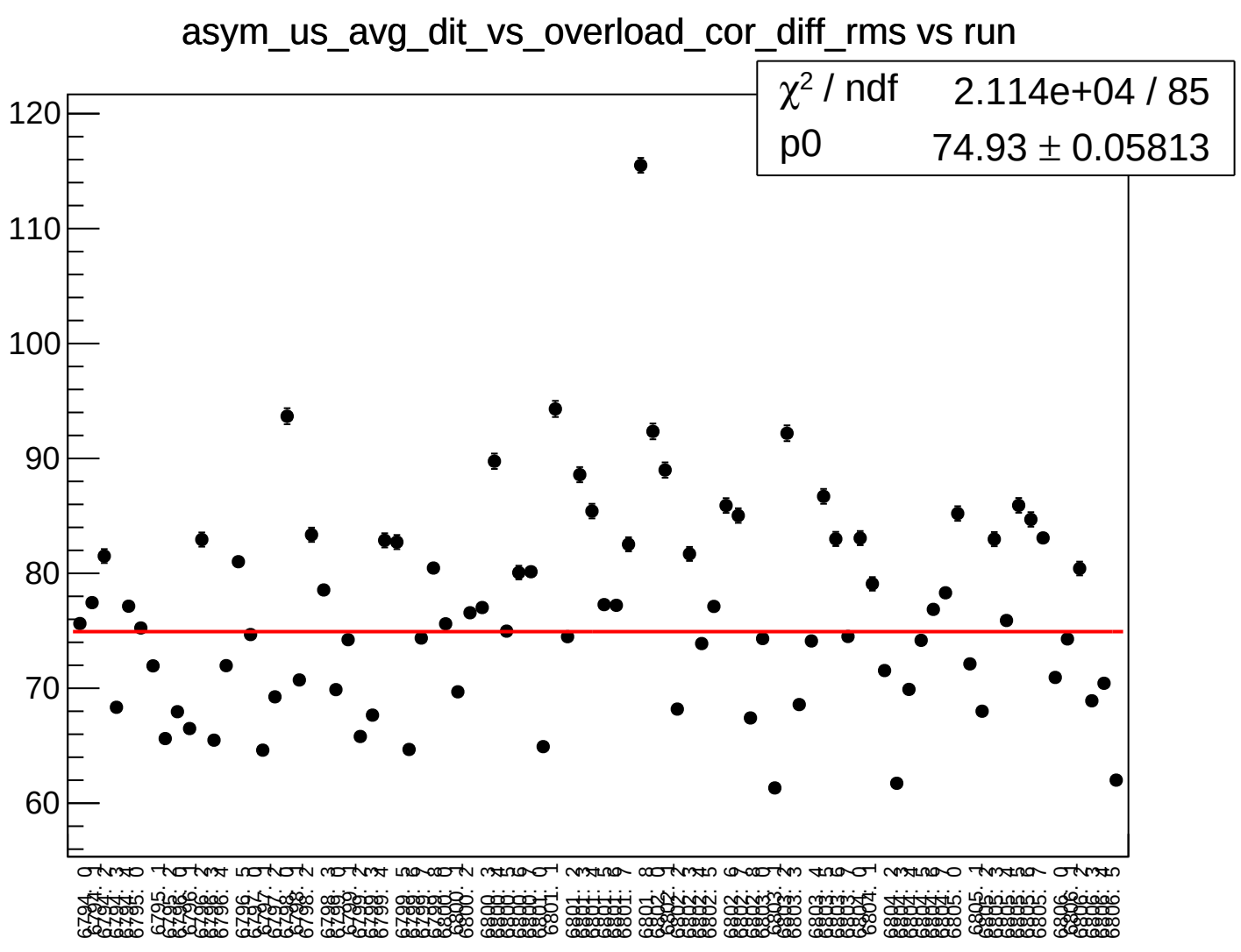

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.56 / 85
p0 0.1643 ± 0.0597
pull
Entries 86
Mean 31.69
Std Dev 0

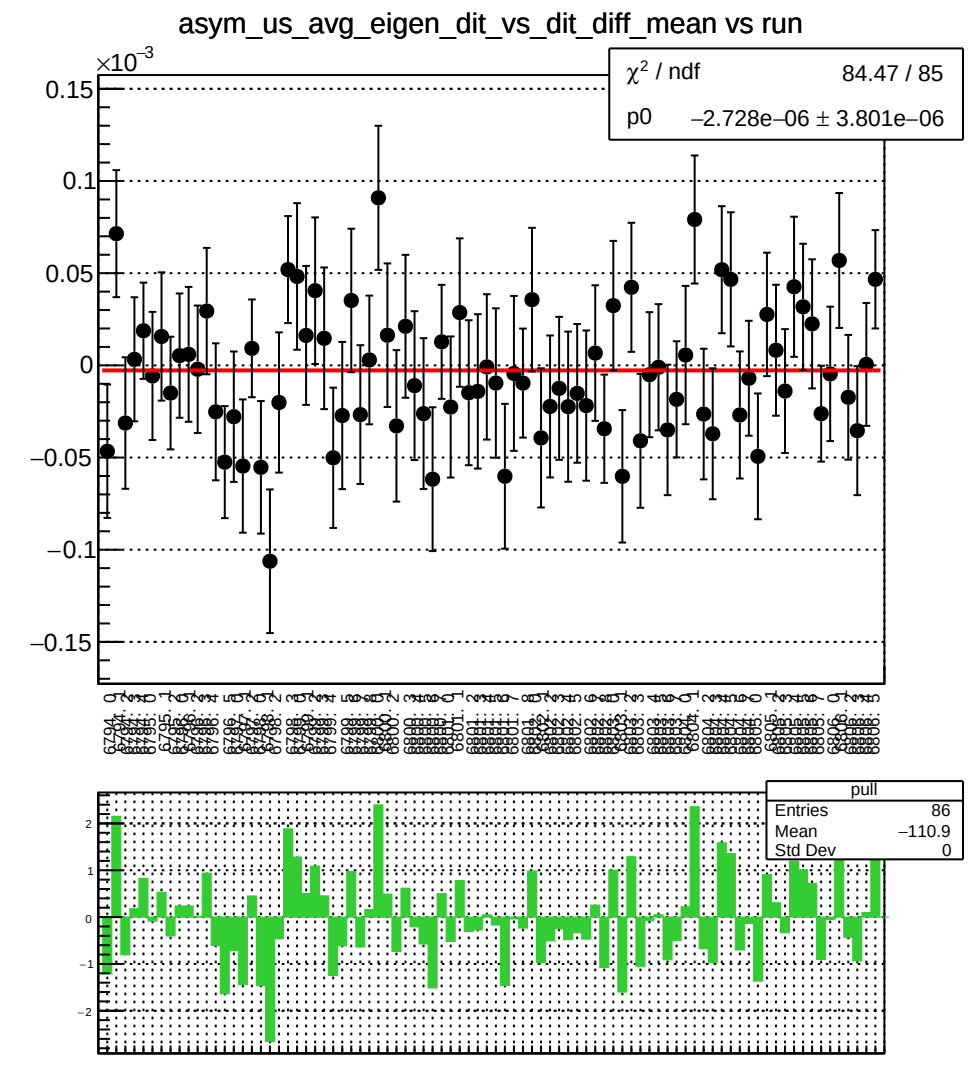

pull1D
Entries 86
Mean −0.03477
Std Dev 0.991

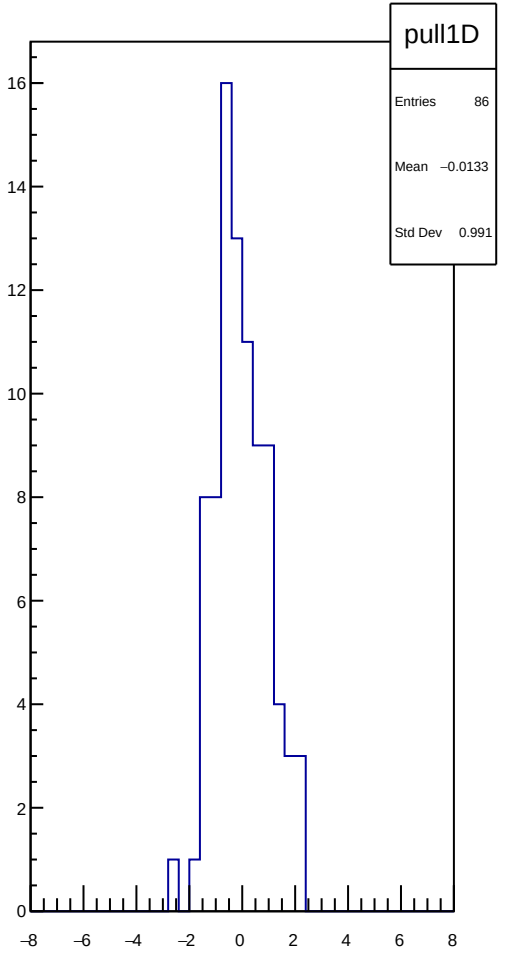

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.541e+04 / 85
p0 53.84 ± 0.04221
100
90
80
70
60
50
40
30

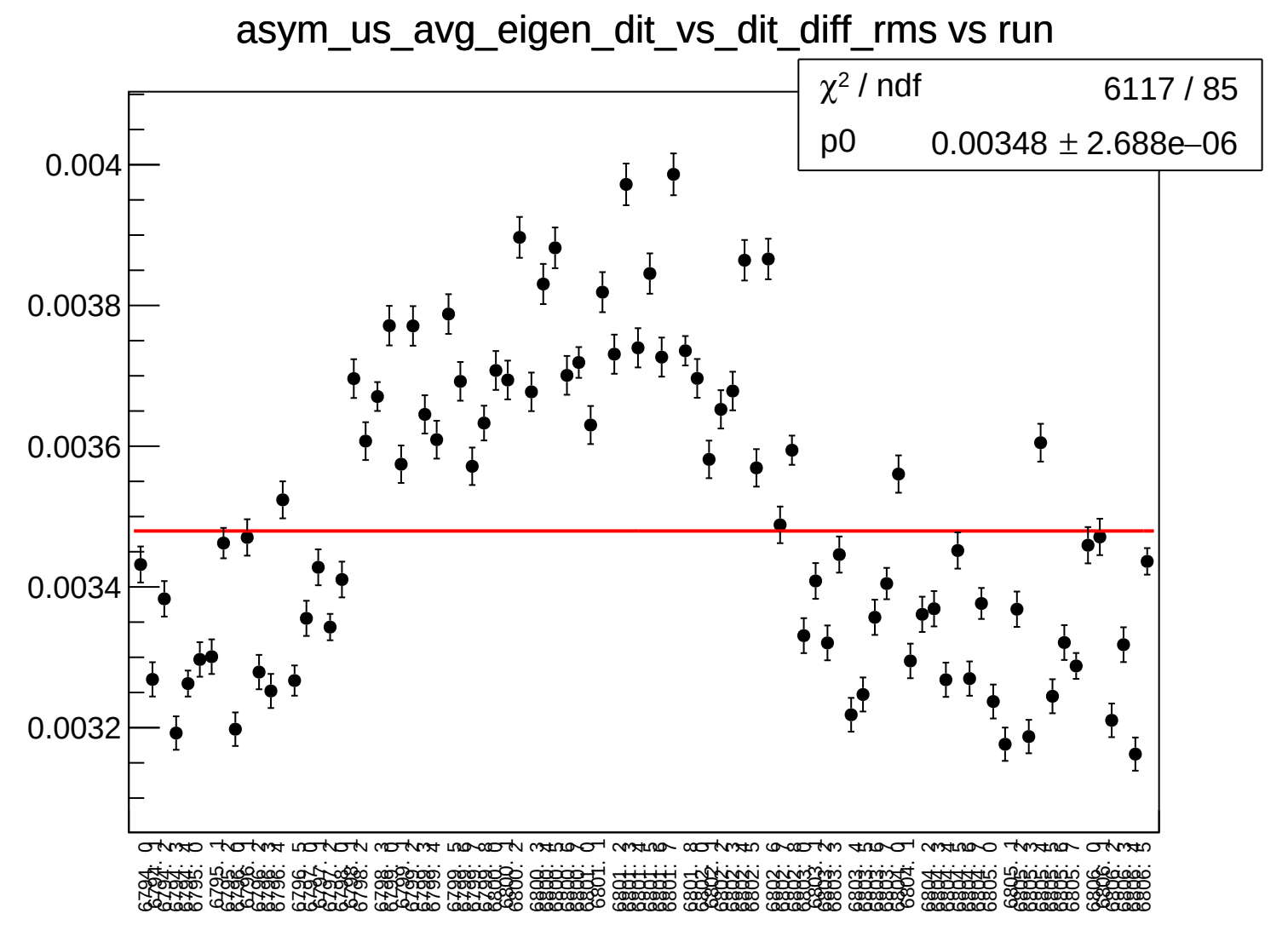

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.01 / 85
p0 0.196 ± 0.08221
pull
Entries 86
Mean −11.5
Std Dev 0

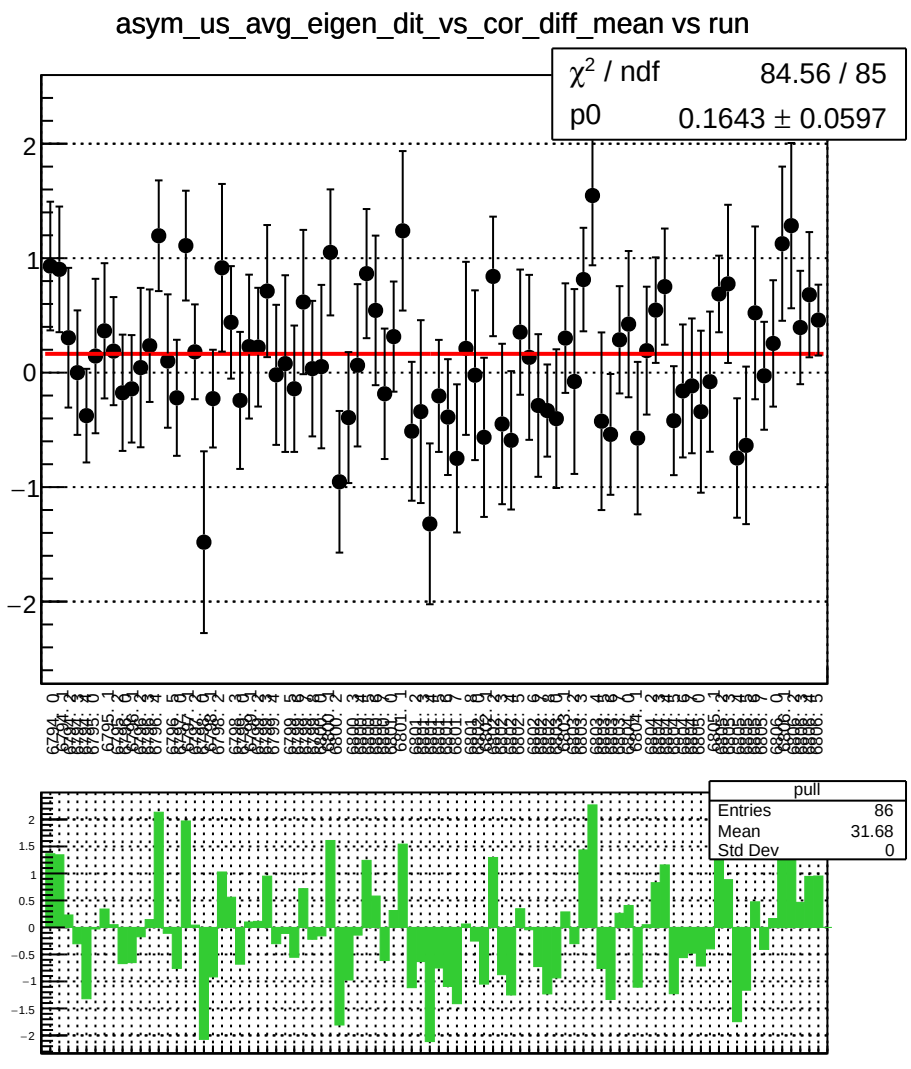

pull1D
Entries 86
Mean −0.0291
Std Dev 0.9996

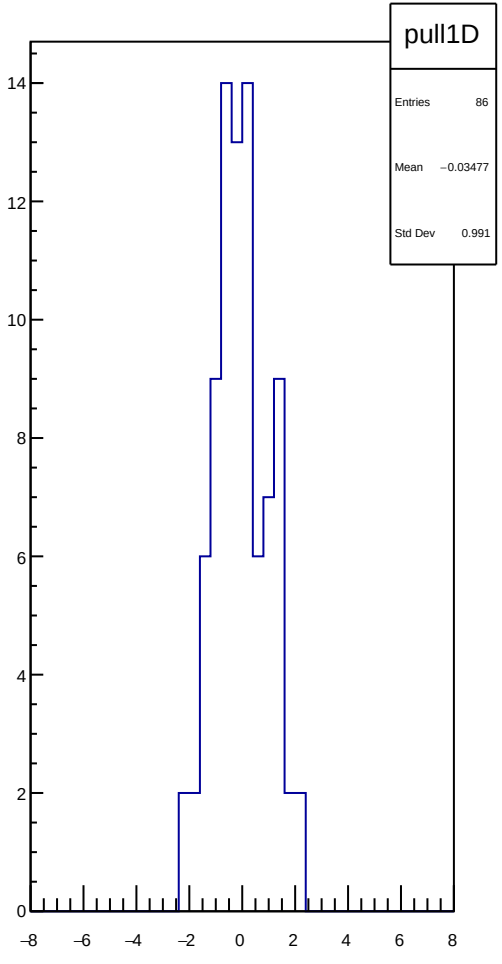

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.114e+04 / 85
p0 74.93 ± 0.05813
120
110
100
90
80
70
60

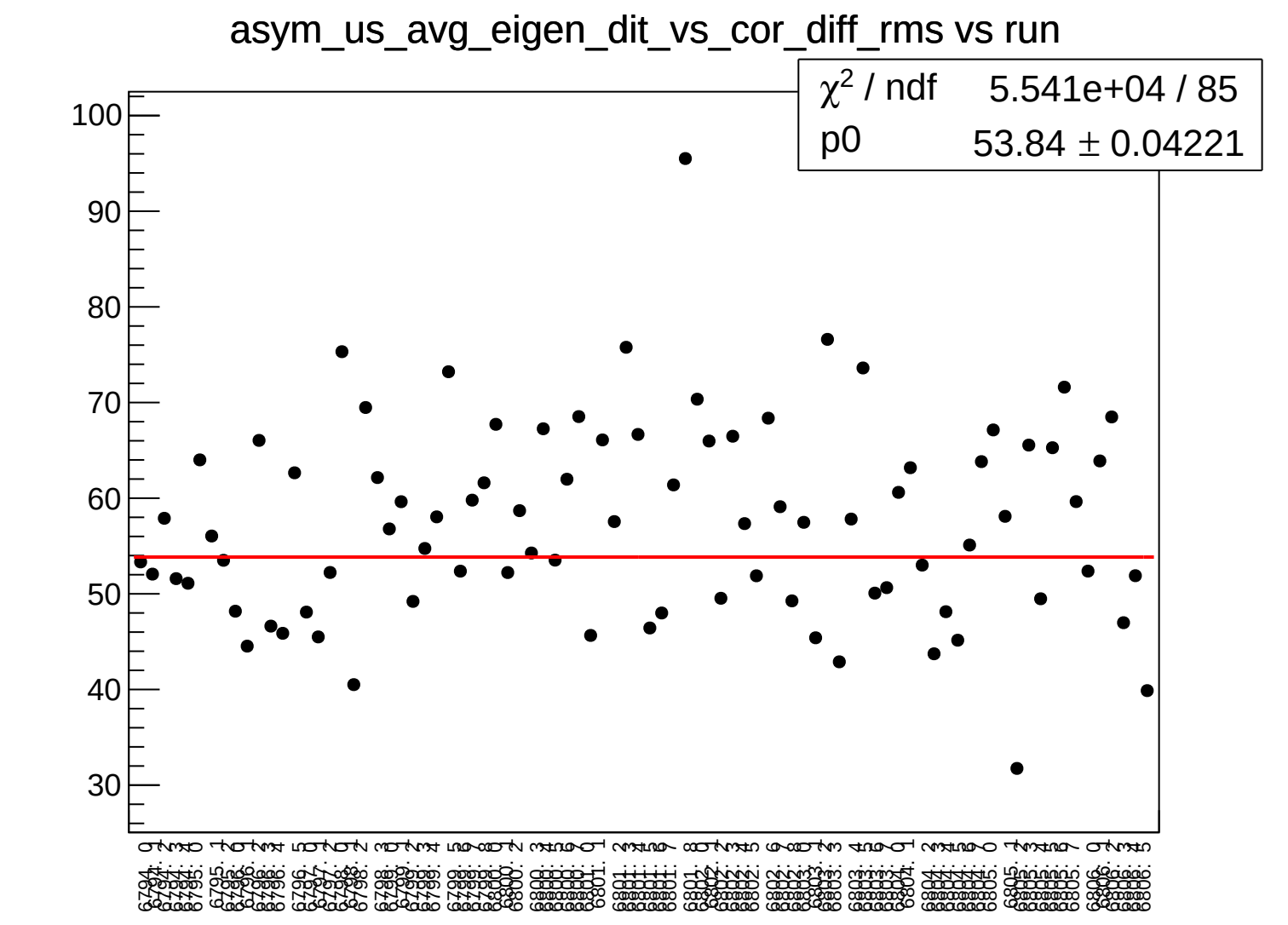

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.47 / 85
p0 −2.728e−06 ± 3.801e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −110.9
Std Dev 0
2
1
0
−1
−2

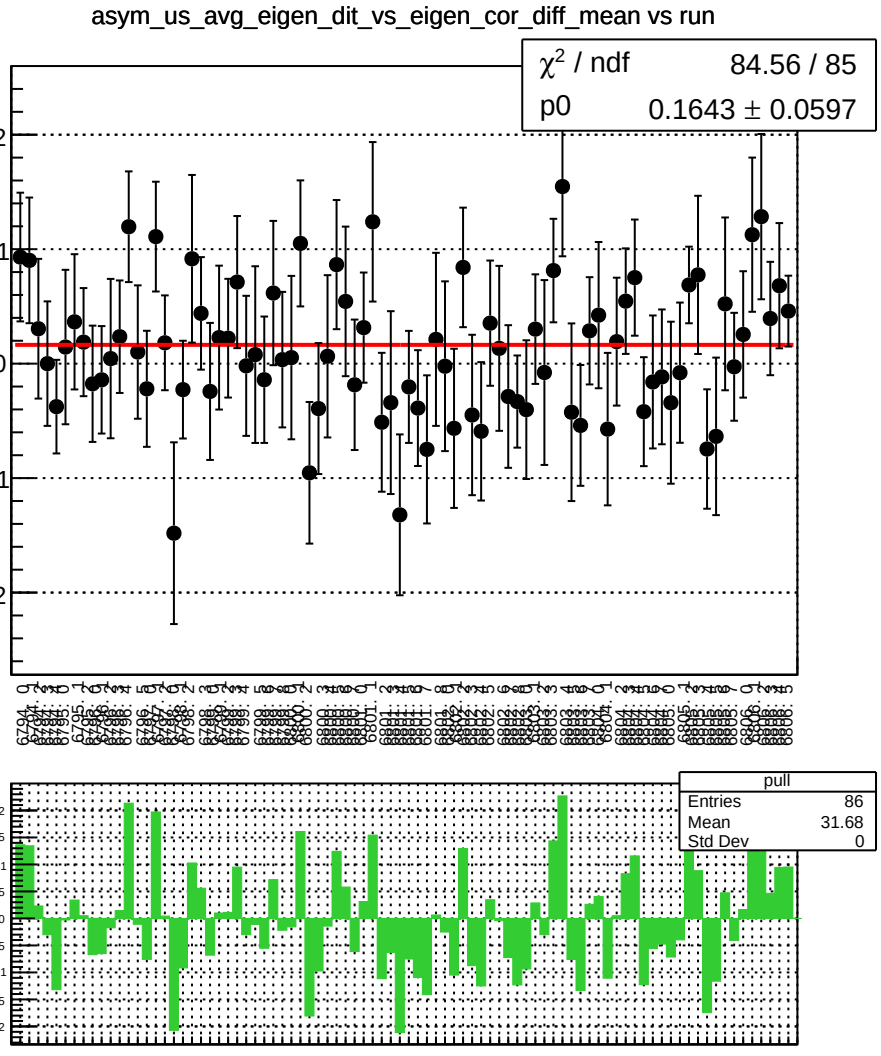

pull1D
Entries 86
Mean −0.0133
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

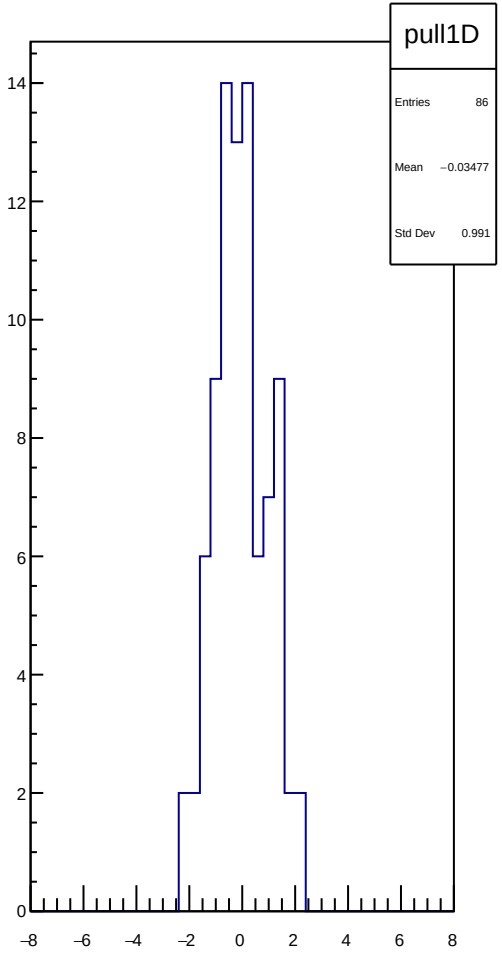

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6117 / 85
p0 0.00348 ± 2.688e–06
0.004
0.0038
0.0036
0.0034
0.0032

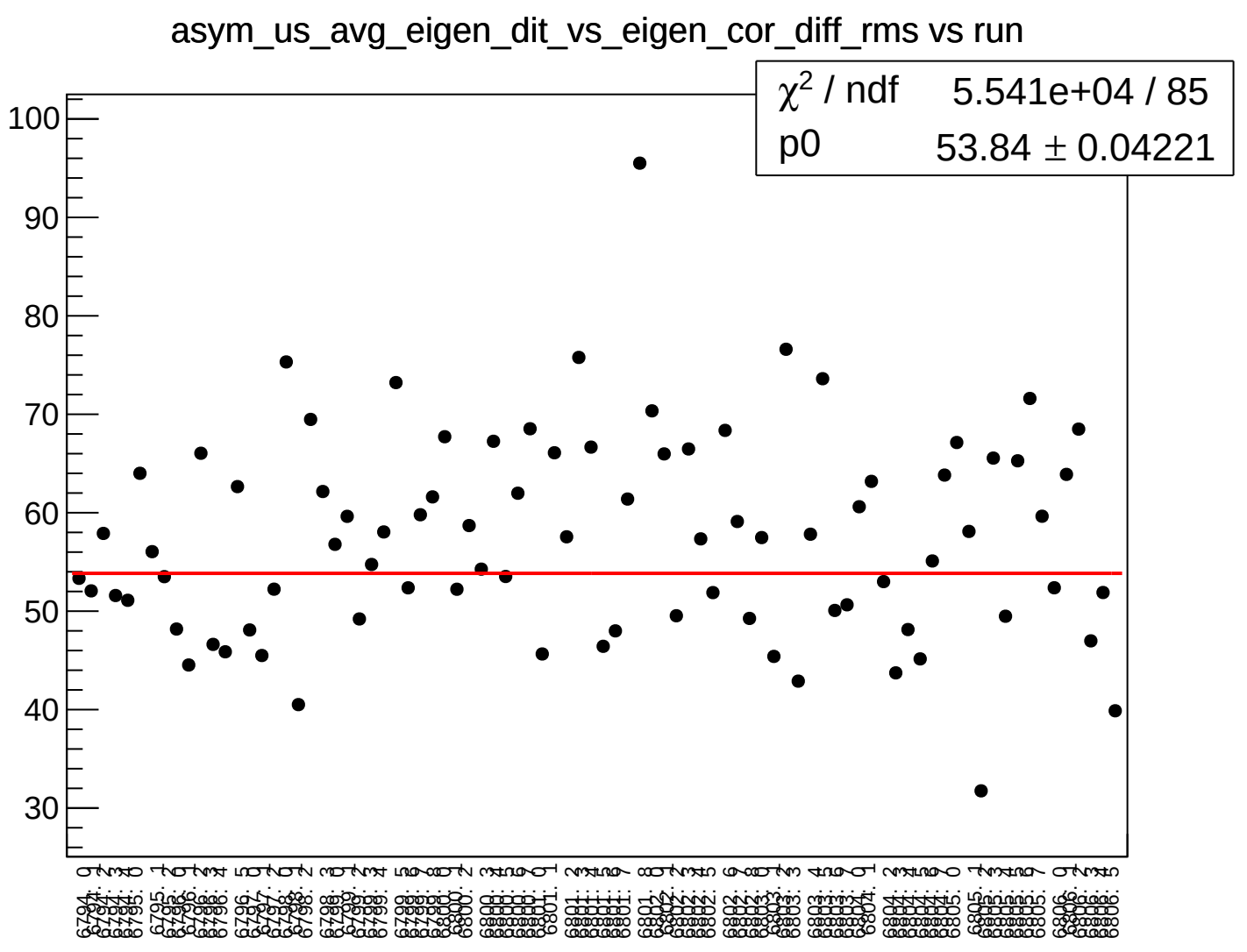

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.56 / 85
p0 0.1643 ± 0.0597
pull
Entries 86
Mean 31.68
Std Dev 0

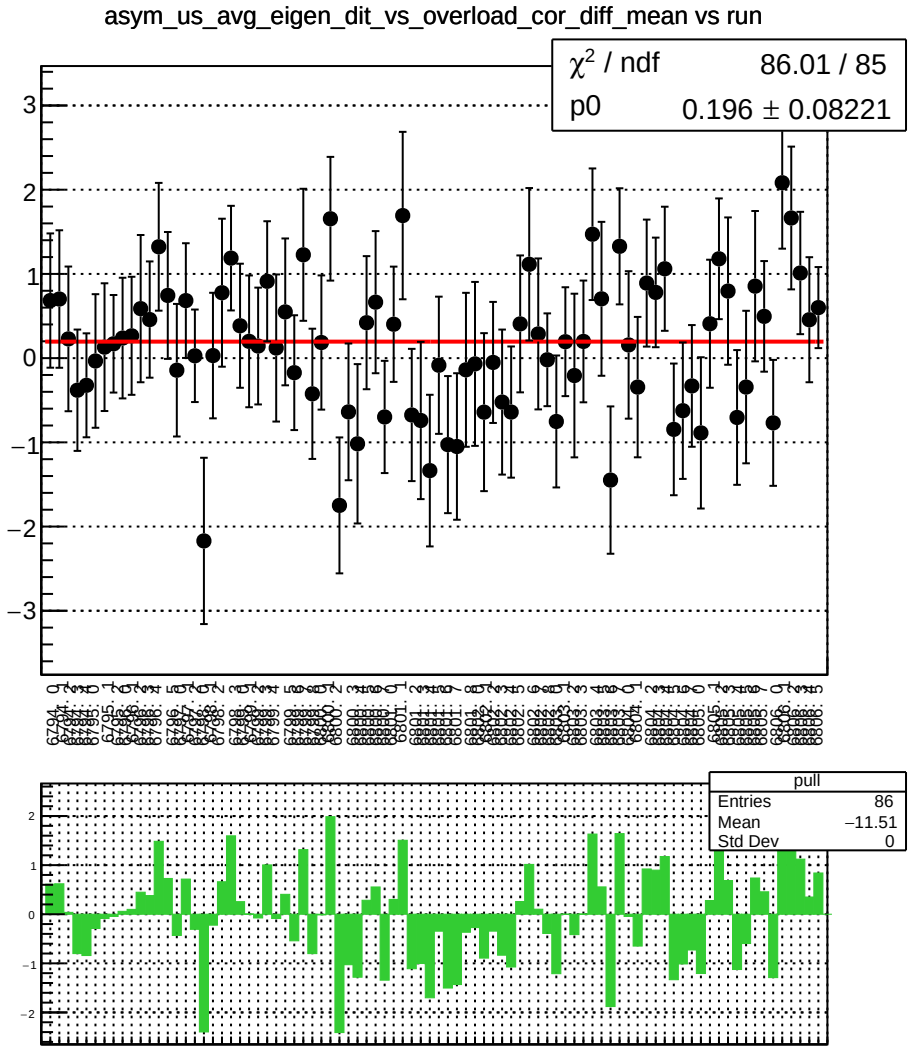

pull1D
Entries 86
Mean −0.03477
Std Dev 0.991

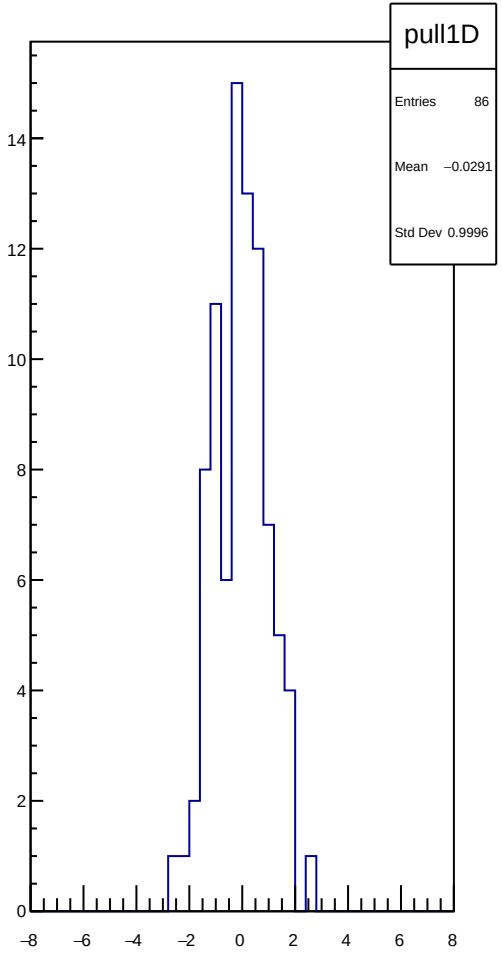

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.541e+04 / 85
p0 53.84 ± 0.04221
100
90
80
70
60
50
40
30

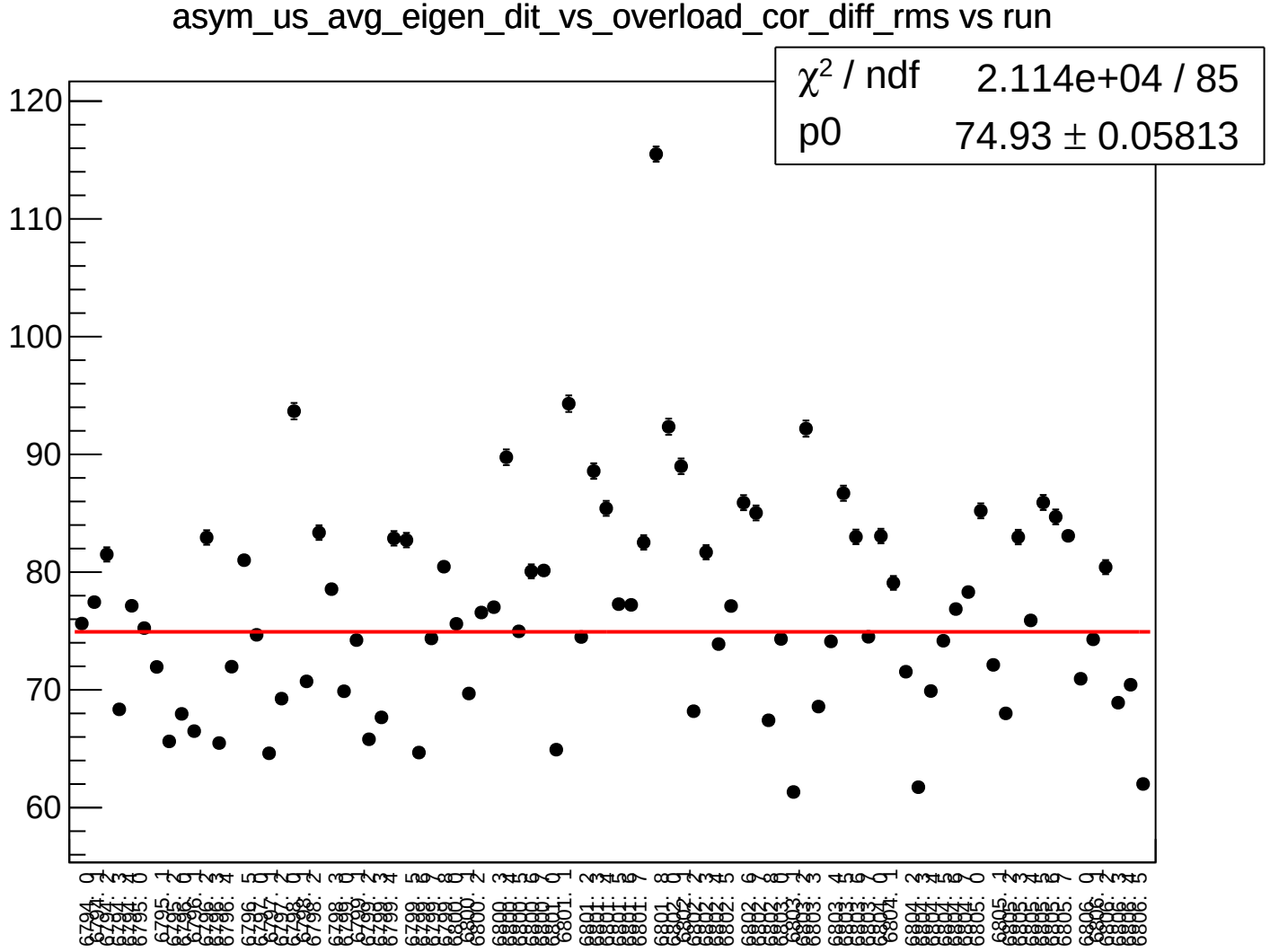

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.56 / 85
p0 0.1643 ± 0.0597
pull
Entries 86
Mean 31.68
Std Dev 0

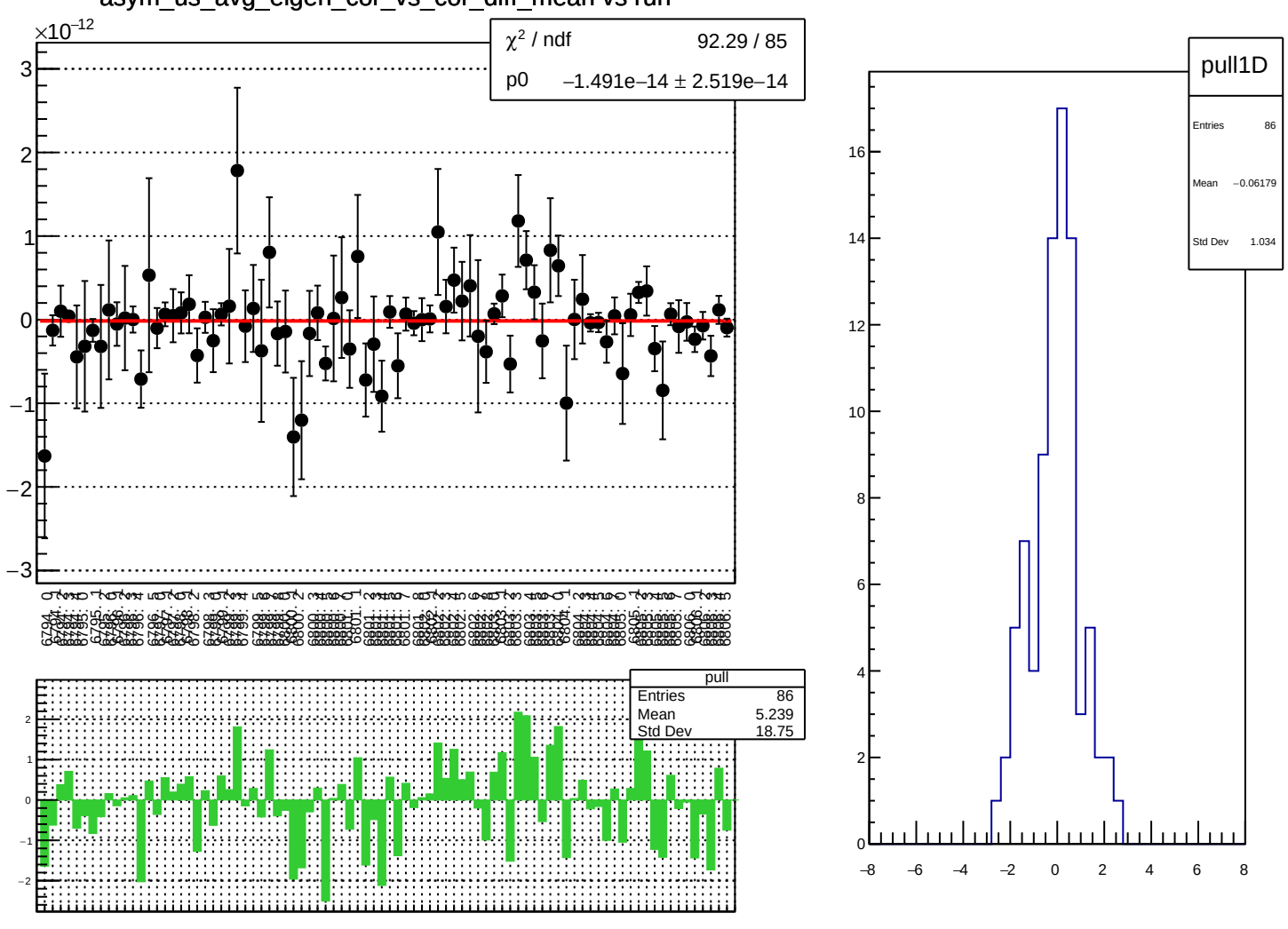

pull1D
Entries 86
Mean −0.03477
Std Dev 0.991

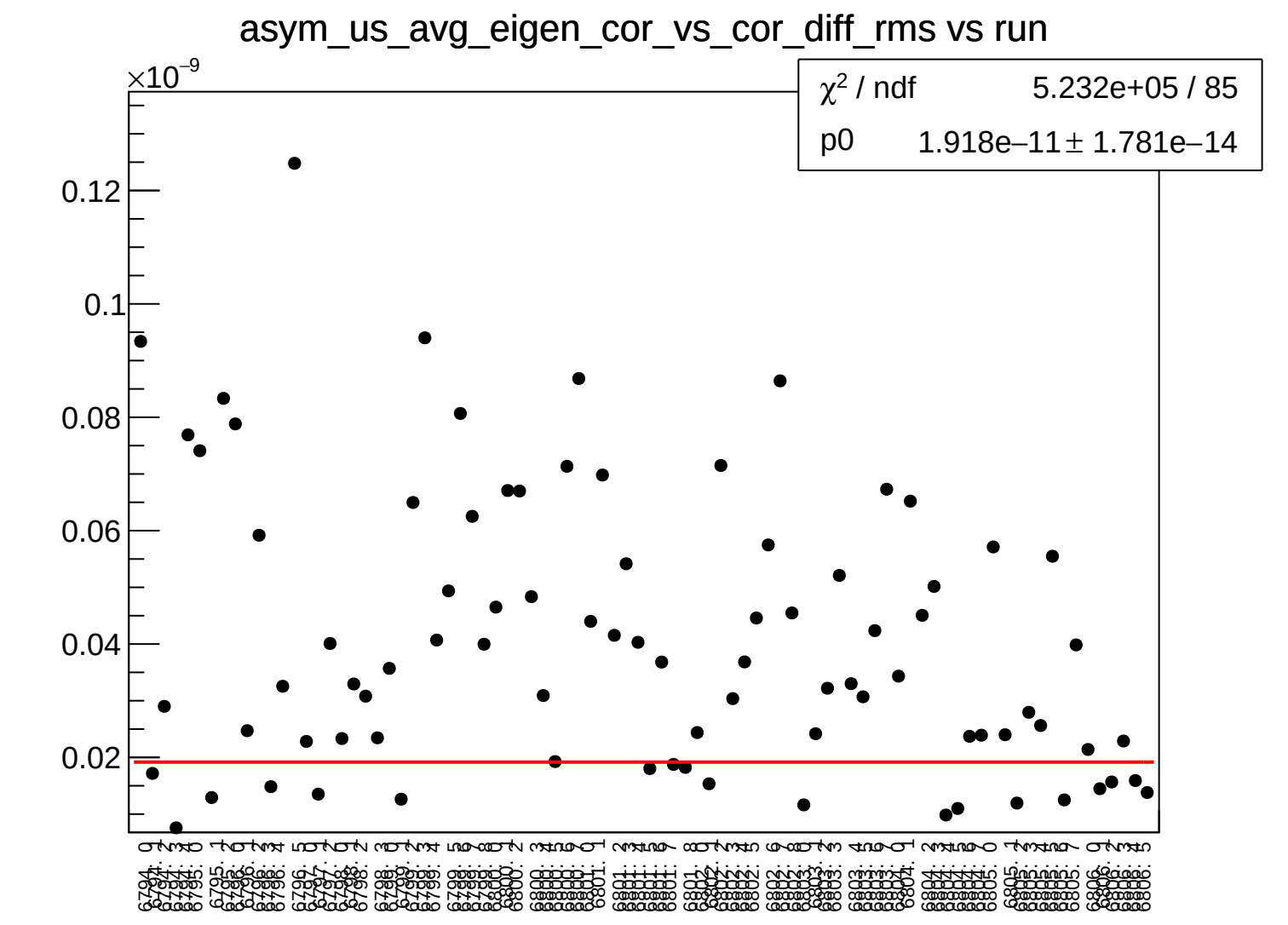

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.541e+04 / 85
p0 53.84 ± 0.04221
100
90
80
70
60
50
40
30

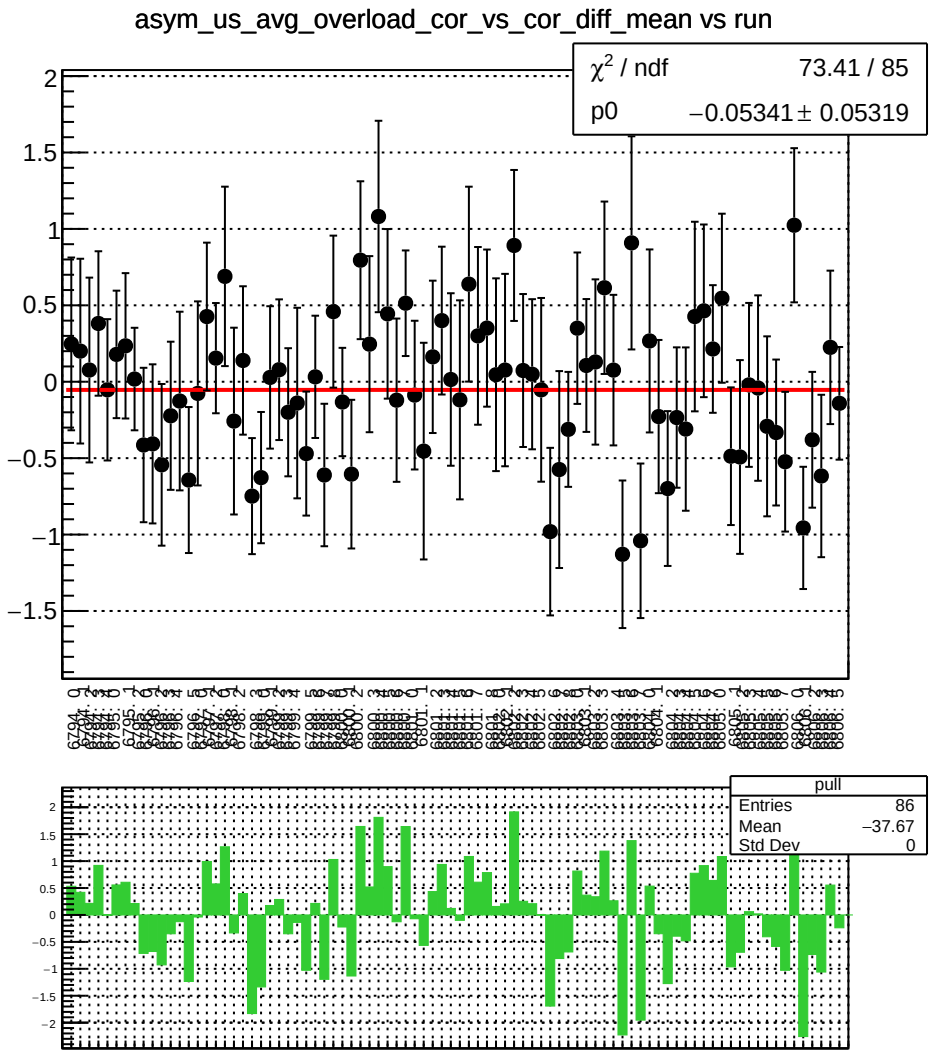

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 86.01 / 85
p0 0.196 ± 0.08221
pull
Entries 86
Mean −11.51
Std Dev 0

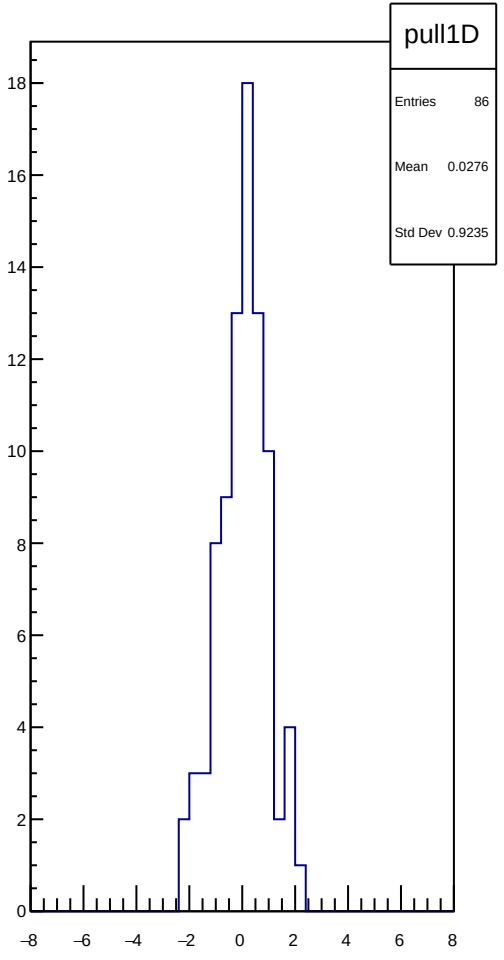

pull1D
Entries 86
Mean −0.0291
Std Dev 0.9996

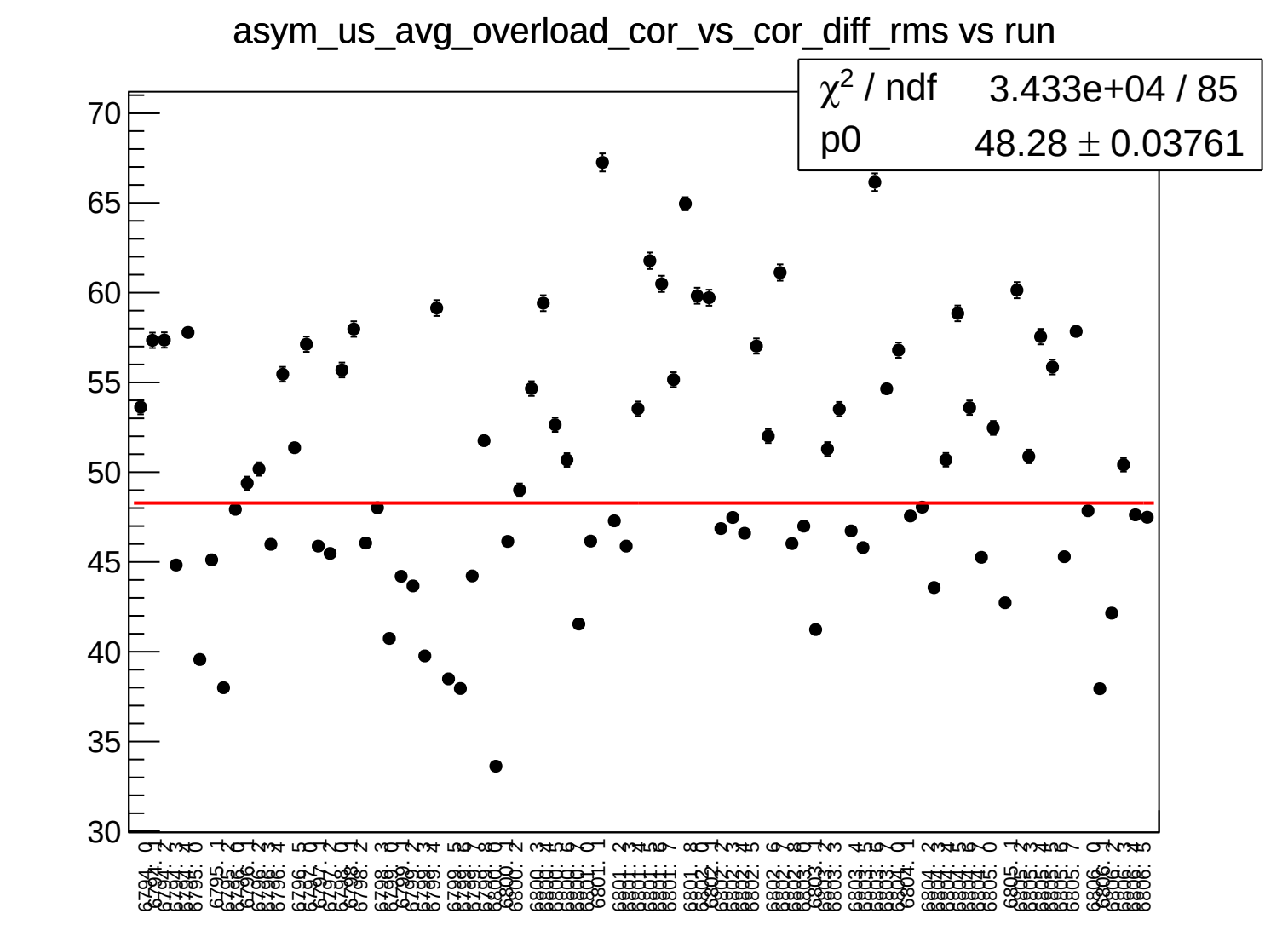

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 2.114e+04 / 85
p0 74.93 ± 0.05813
120
110
100
90
80
70
60

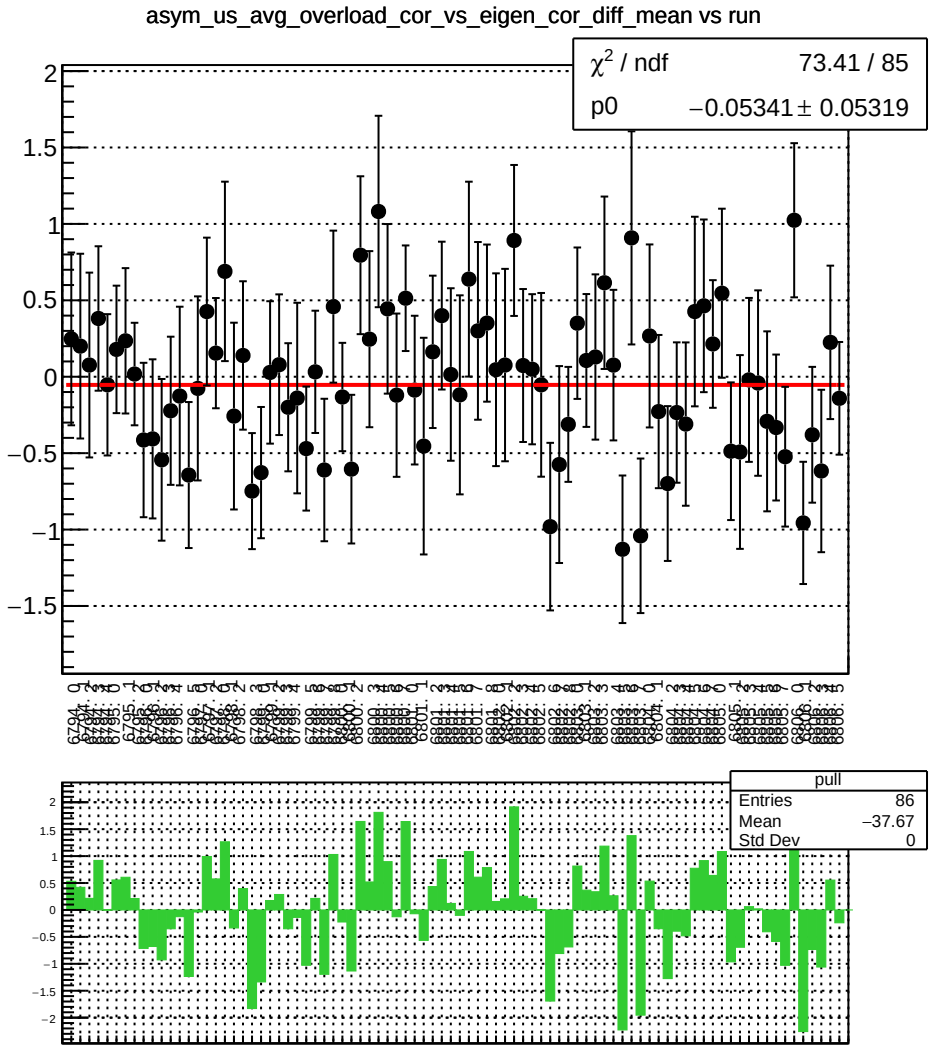

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.29 / 85
p0 −1.491e−14 ± 2.519e−14
pull
Entries 86
Mean 5.239
Std Dev 18.75
pull1D
Entries 86
Mean −0.06179
Std Dev 1.034

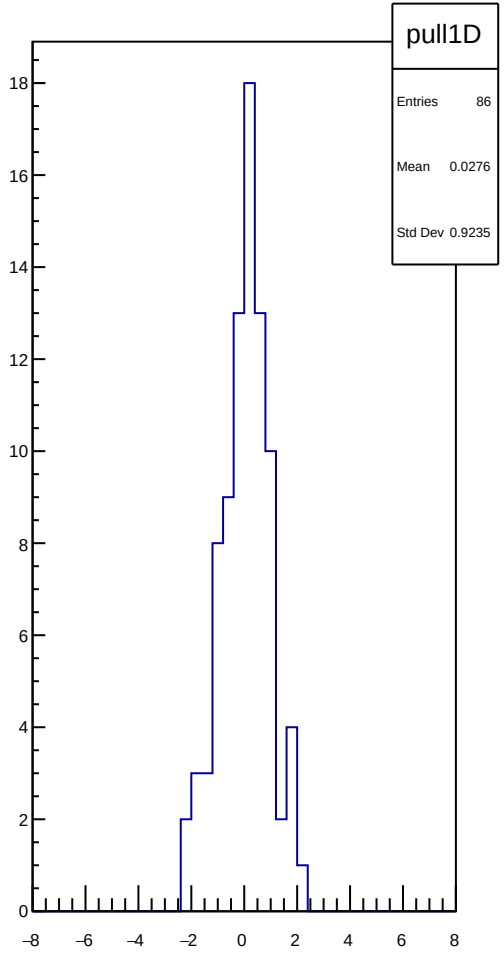

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.232e+05 / 85
p0 1.918e−11 ± 1.781e−14
0.12
0.1
0.08
0.06
0.04
0.02

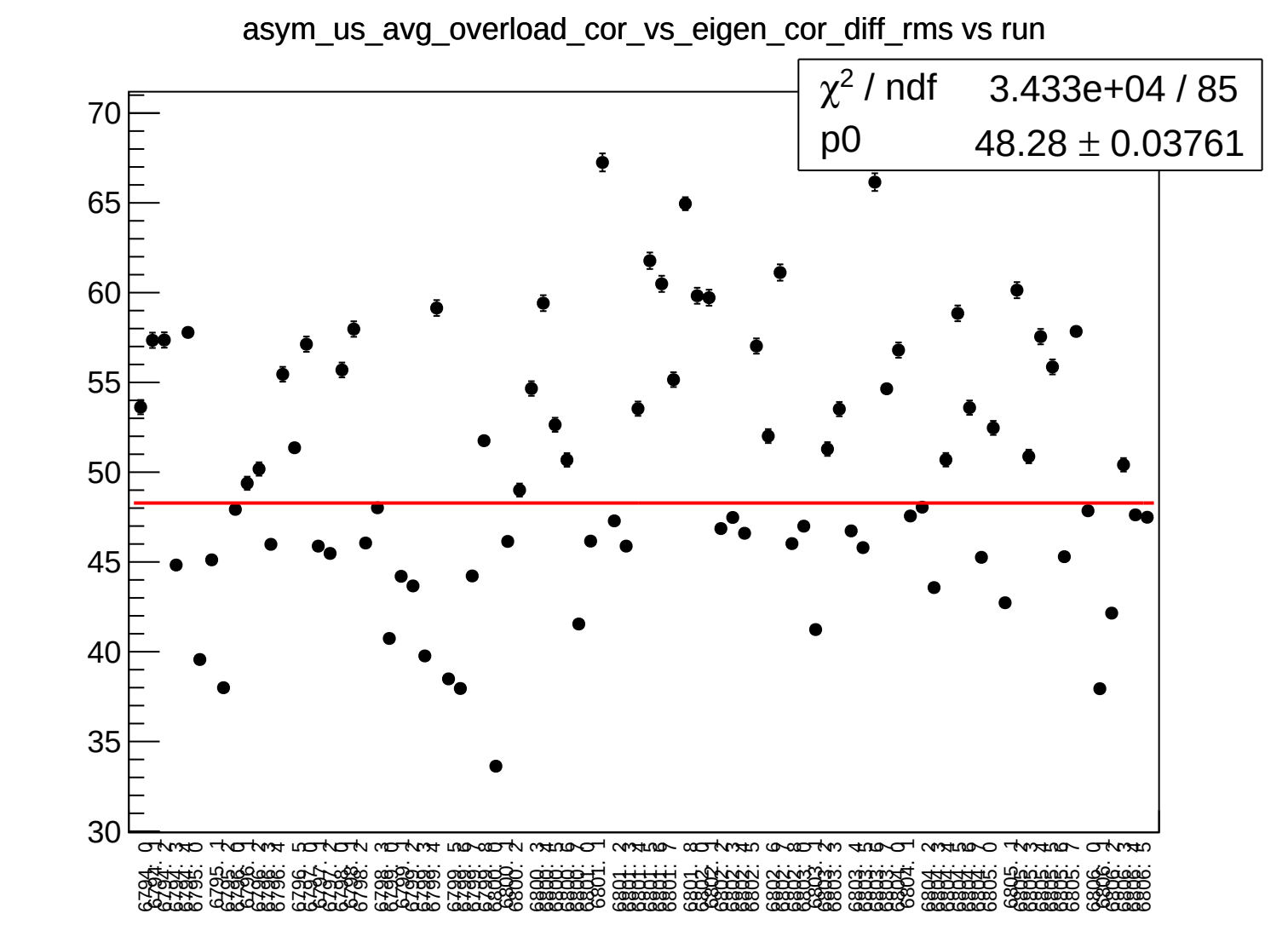

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 73.41 / 85
p0 −0.05341 ± 0.05319
pull
Entries 86
Mean −37.67
Std Dev 0

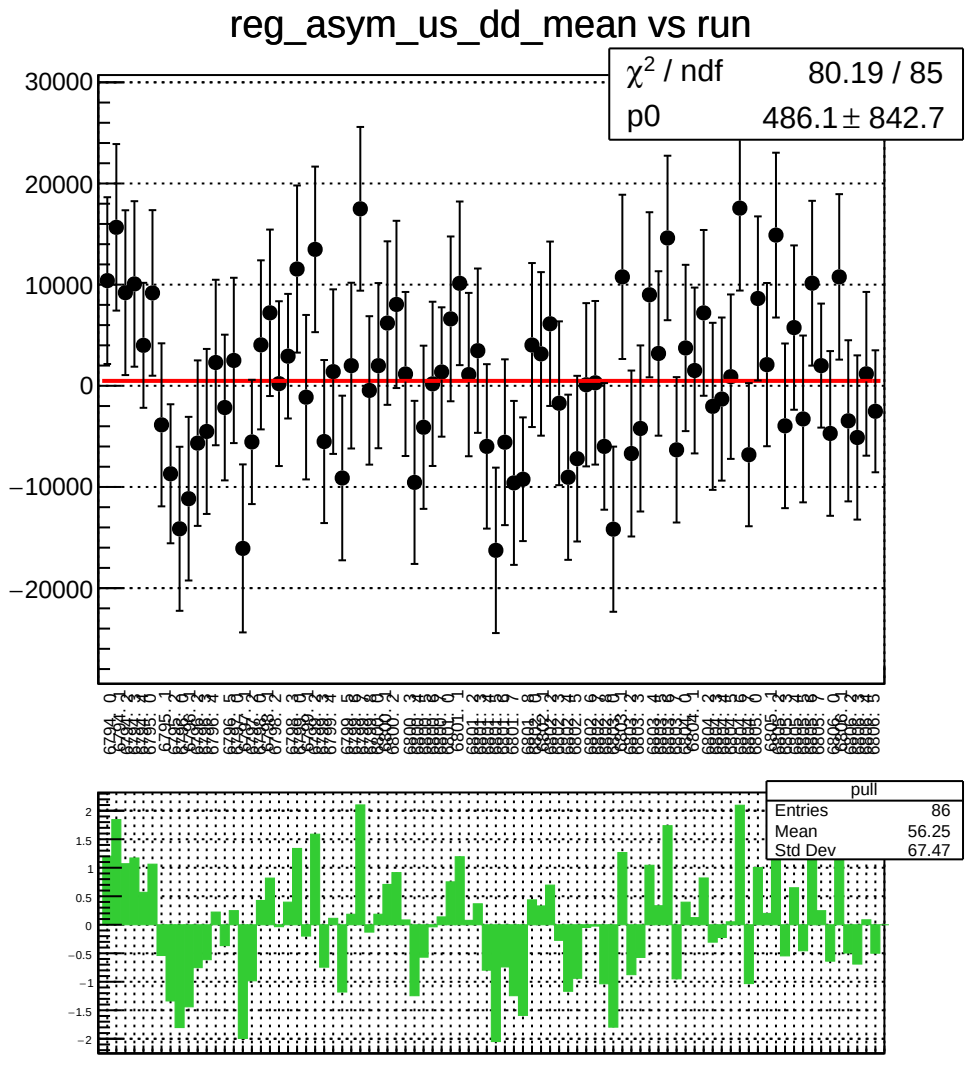

pull1D
Entries 86
Mean 0.0276
Std Dev 0.9235

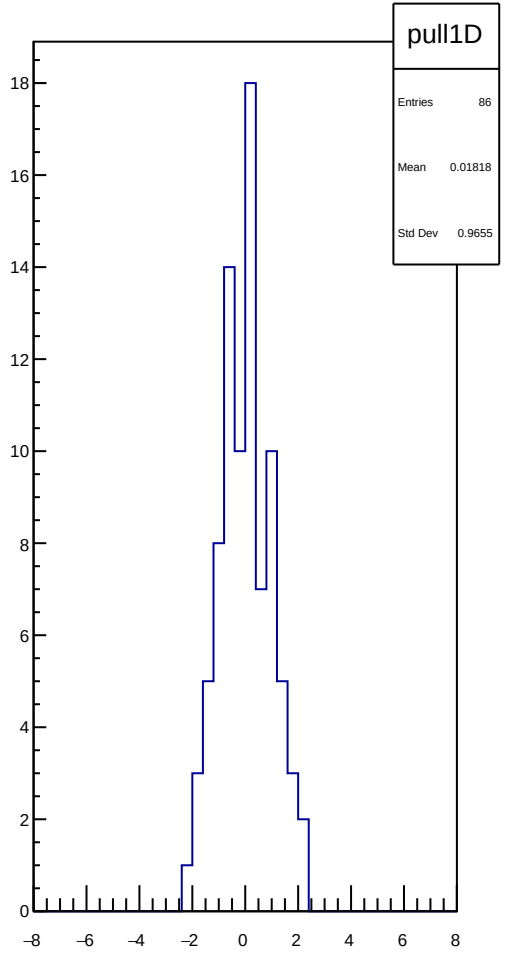

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 3.433e+04 / 85
p0 48.28 ± 0.03761
70
65
60
55
50
45
40
35
30

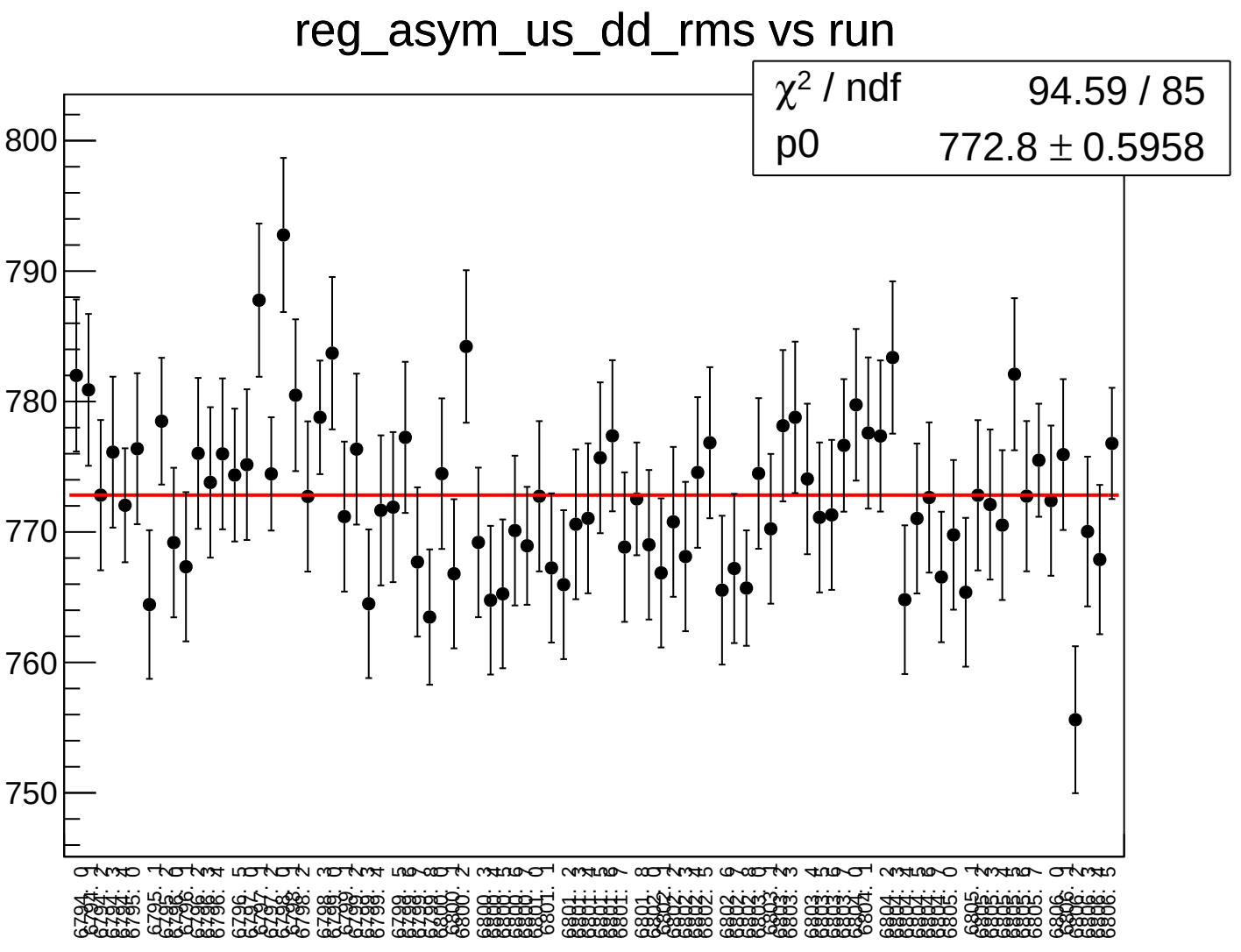

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.41 / 85
p0 −0.05341 ± 0.05319
pull
Entries 86
Mean −37.67
Std Dev 0

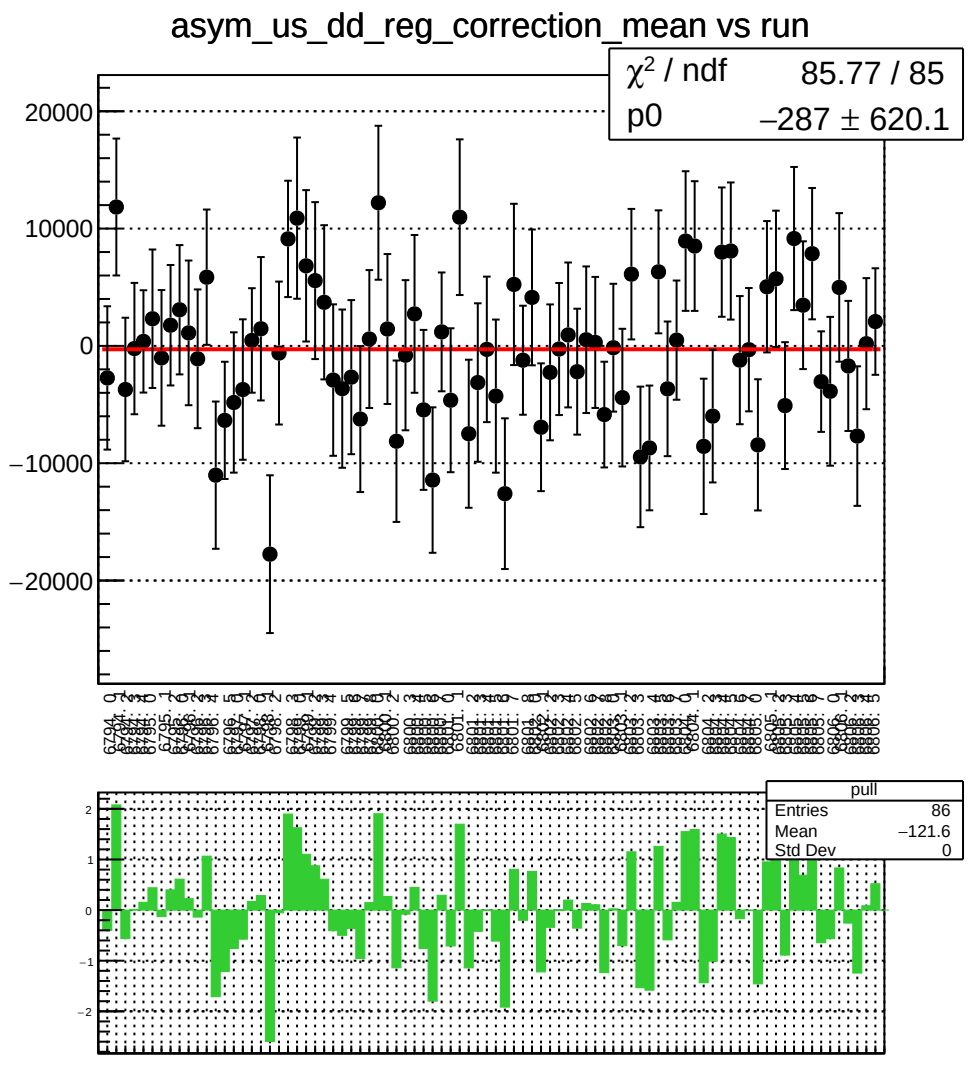

pull1D
Entries 86
Mean 0.0276
Std Dev 0.9235

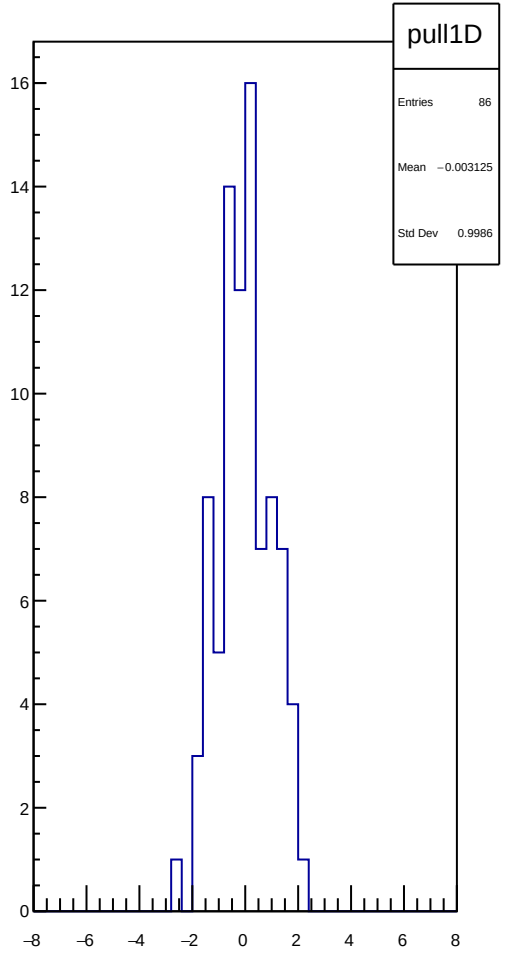

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.433e+04 / 85
p0 48.28 ± 0.03761
70
65
60
55
50
45
40
35
30

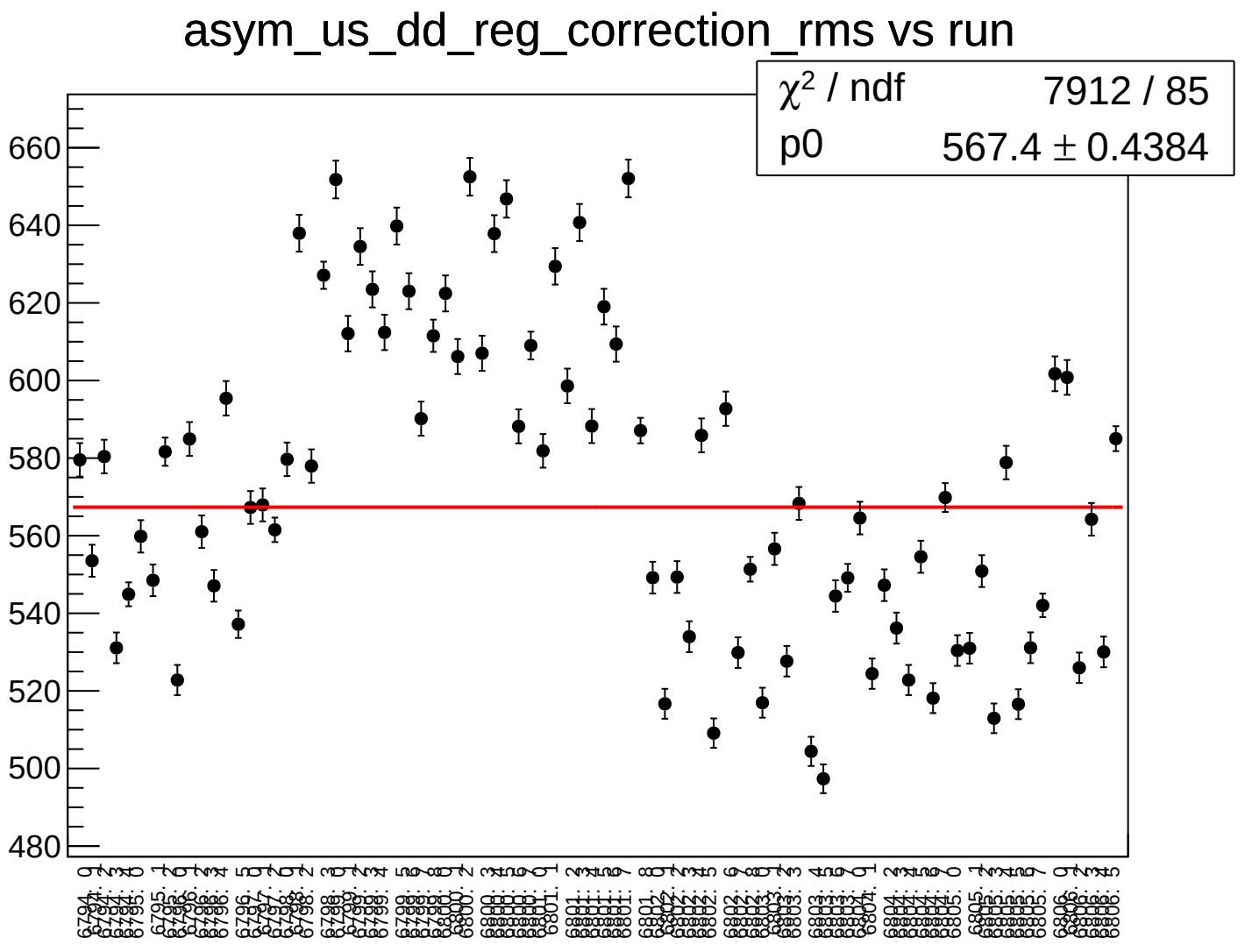

reg_asym_us_dd_mean vs run
χ² / ndf 80.19 / 85
p0 486.1 ± 842.7
pull
Entries 86
Mean 56.25
Std Dev 67.47

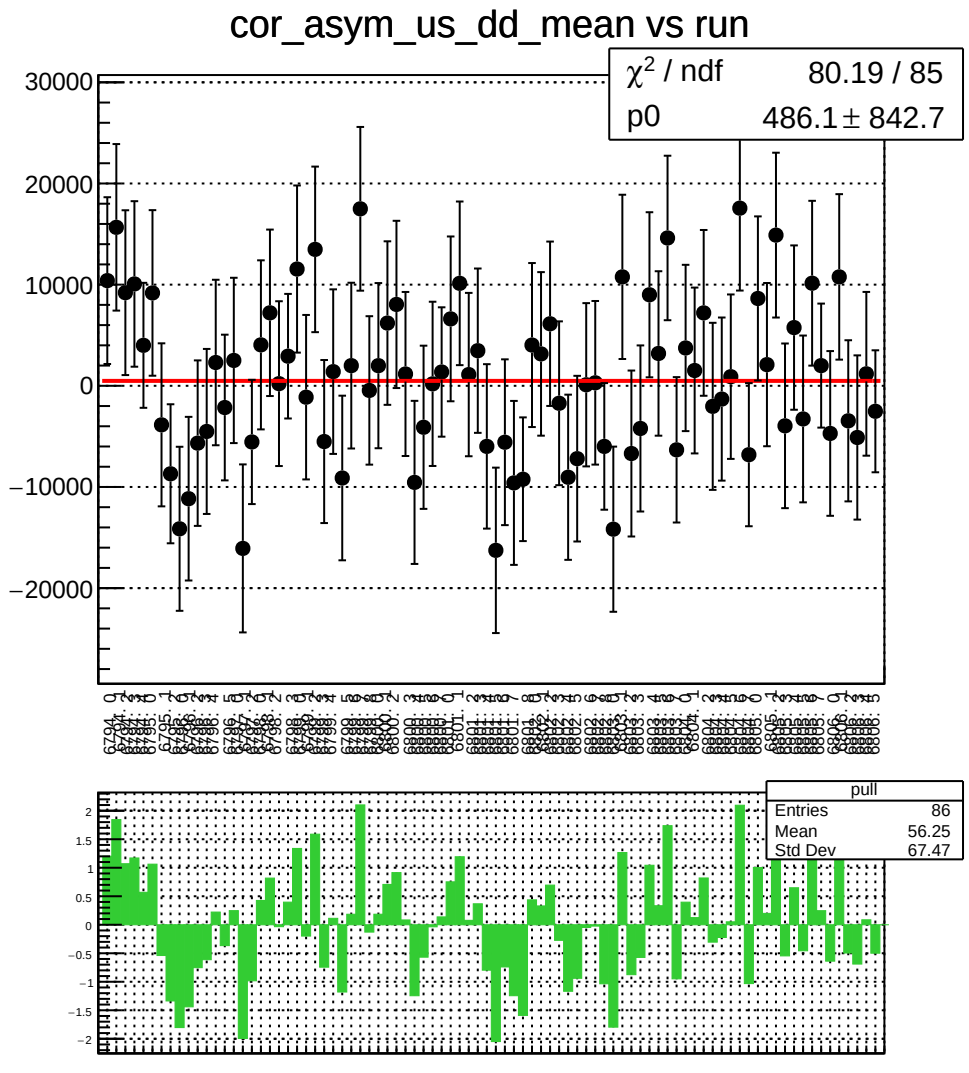

pull1D
Entries 86
Mean 0.01818
Std Dev 0.9655

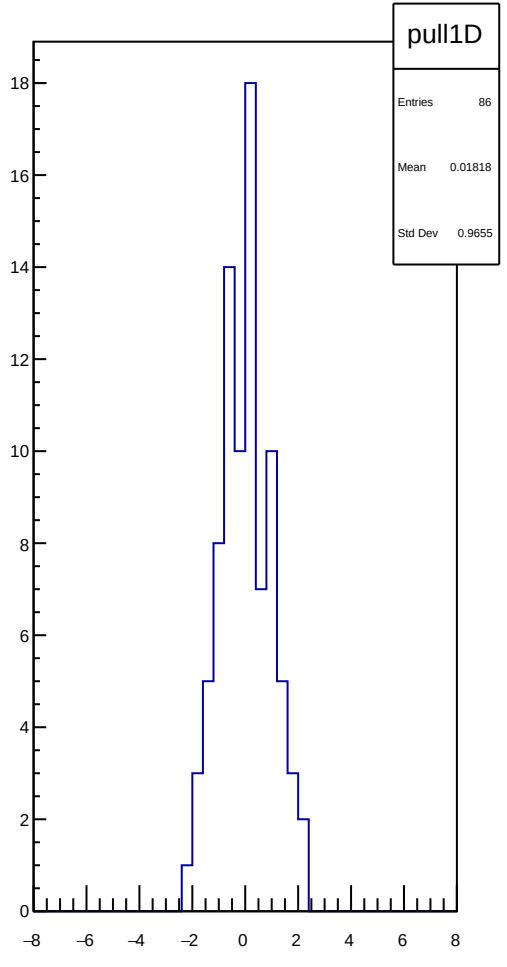

reg_asym_us_dd_rms vs run
χ² / ndf 94.59 / 85
p0 772.8 ± 0.5958
800
790
780
770
760
750

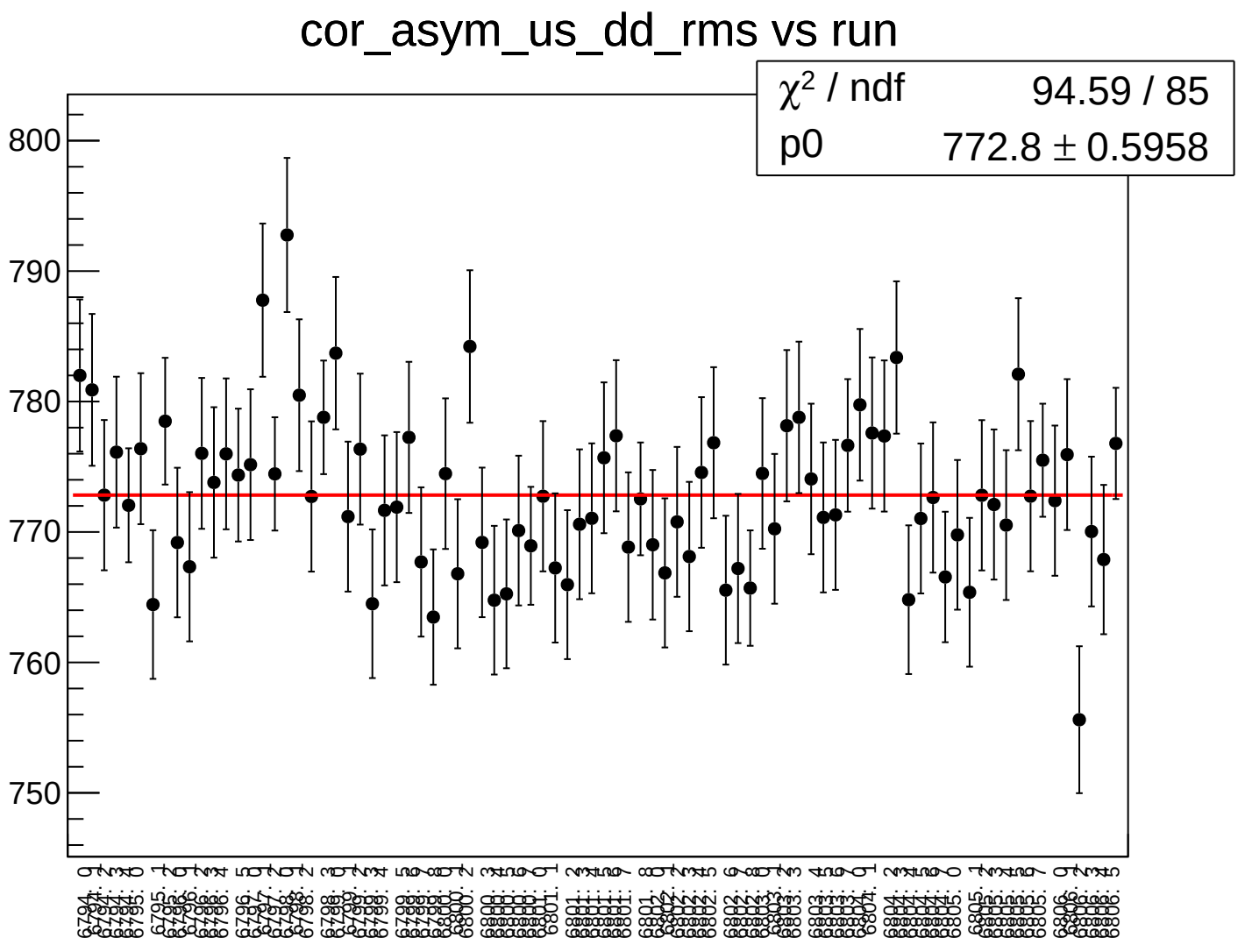

asym_us_dd_reg_correction_mean vs run
χ² / ndf 85.77 / 85
p0 −287 ± 620.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −121.6
Std Dev 0
2
1
0
−1
−2

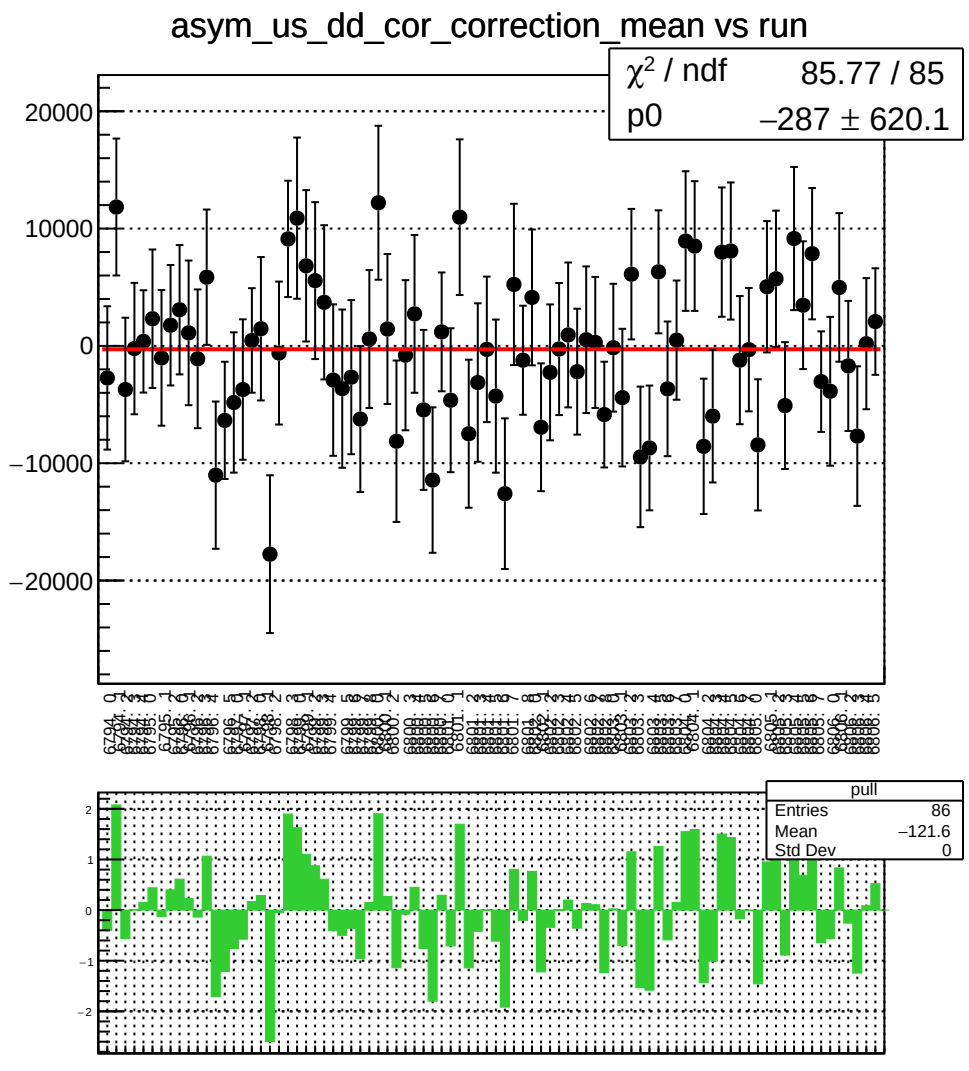

pull1D
Entries 86
Mean −0.003125
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

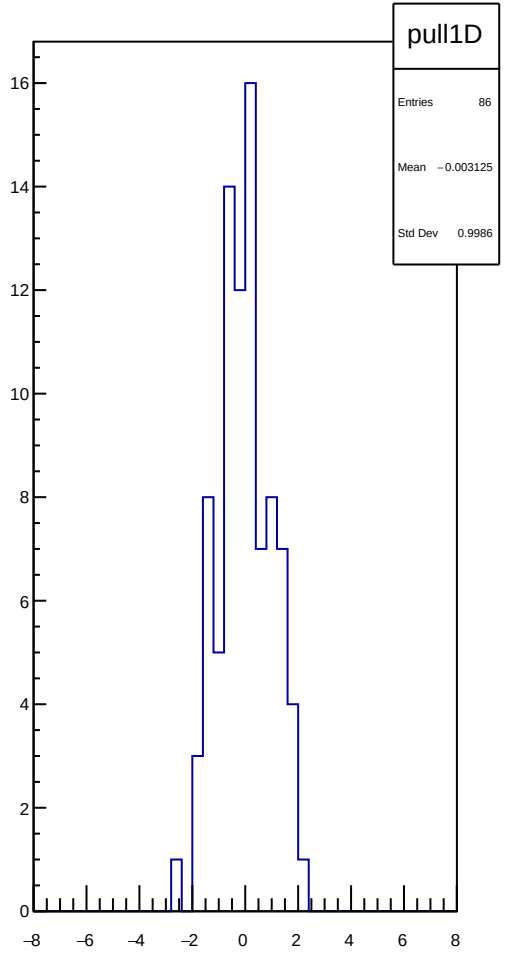

asym_us_dd_reg_correction_rms vs run
χ² / ndf 7912 / 85
p0 567.4 ± 0.4384
660
640
620
600
580
560
540
520
500
480

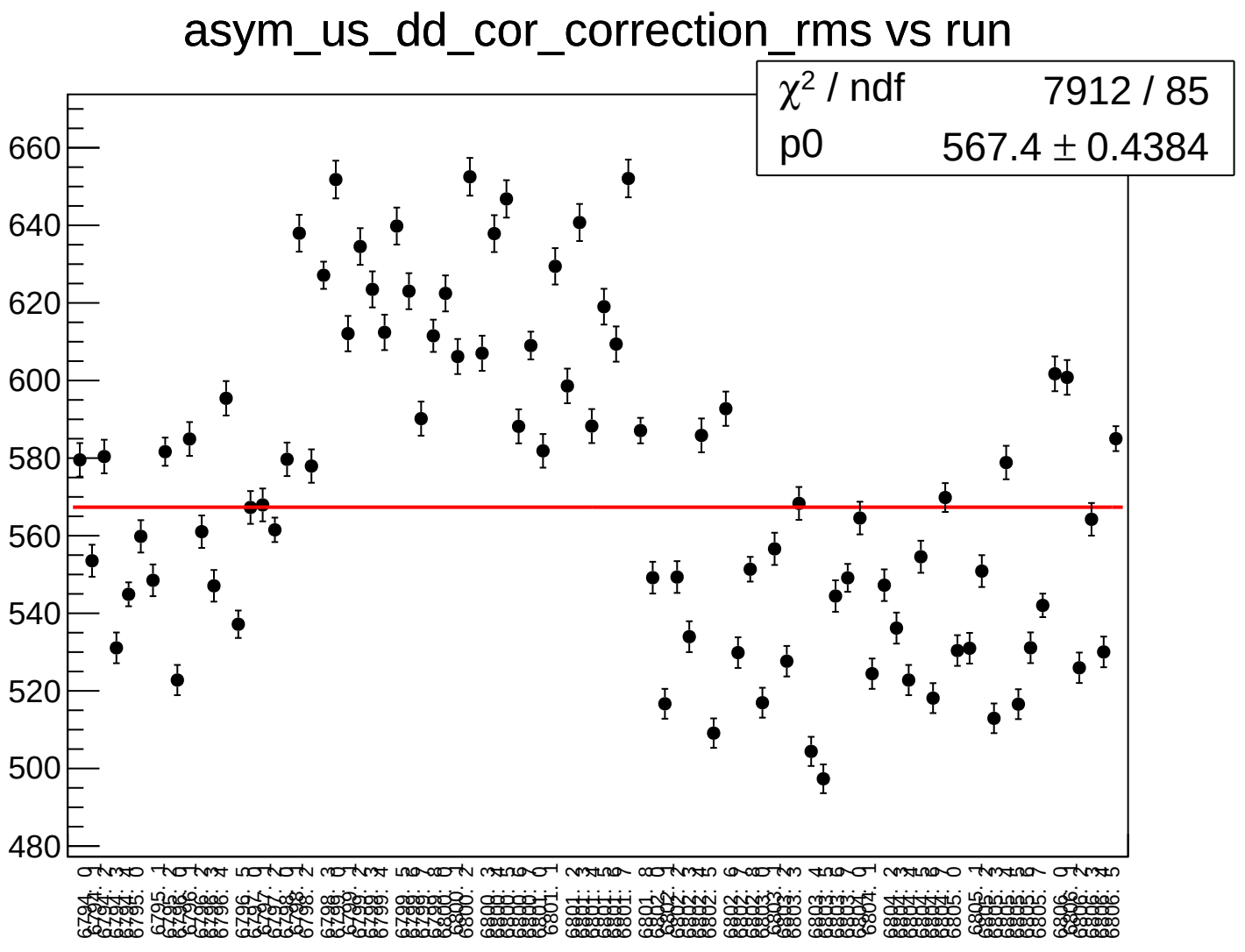

cor_asym_us_dd_mean vs run
χ² / ndf 80.19 / 85
p0 486.1 ± 842.7
pull
Entries 86
Mean 56.25
Std Dev 67.47

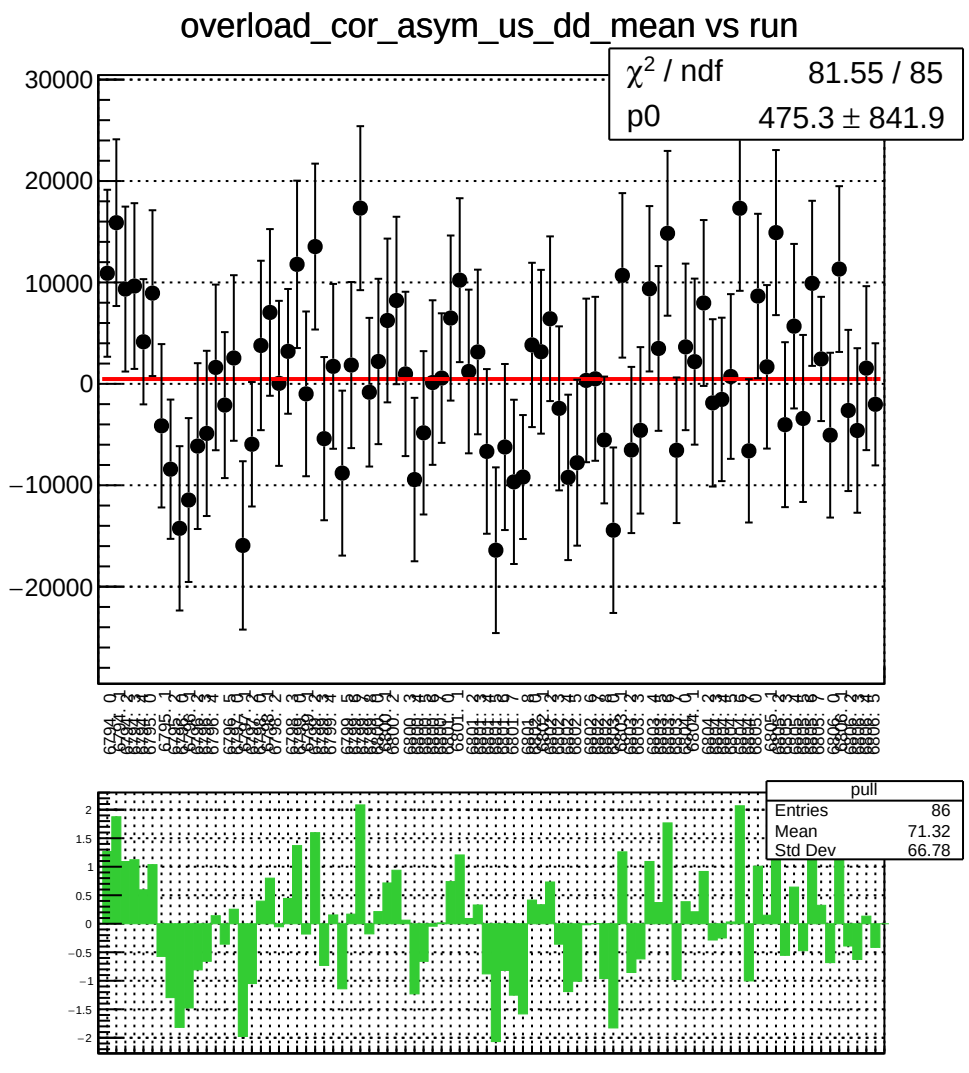

pull1D
Entries 86
Mean 0.01818
Std Dev 0.9655

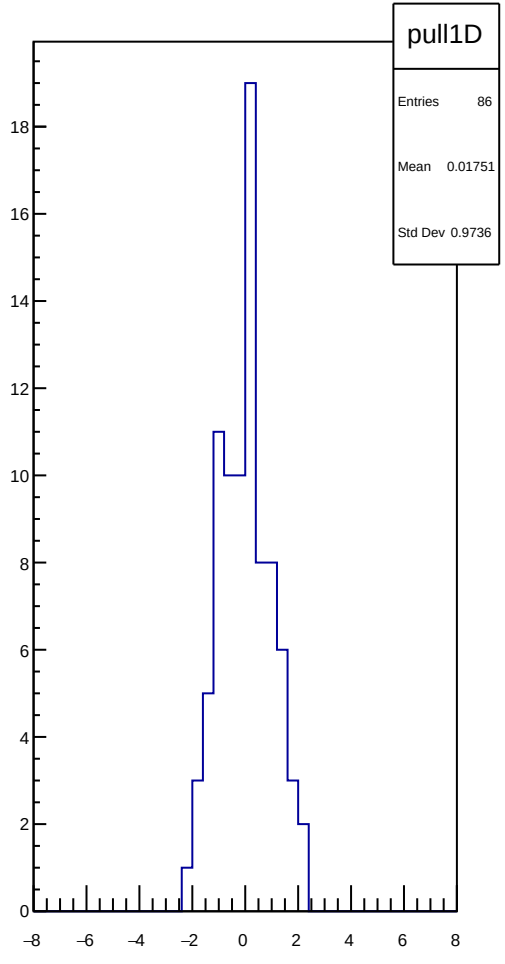

cor_asym_us_dd_rms vs run
χ² / ndf 94.59 / 85
p0 772.8 ± 0.5958
800
790
780
770
760
750

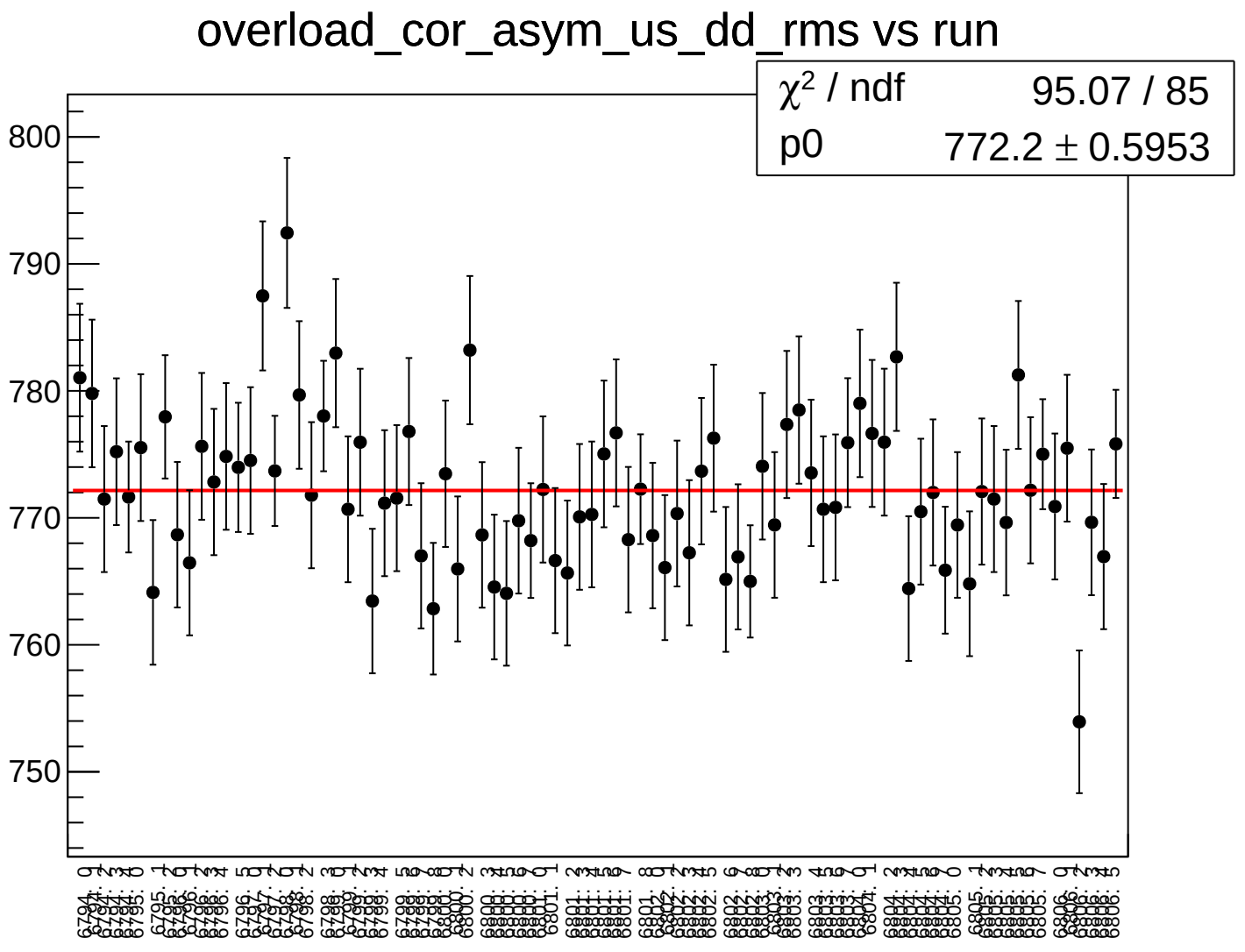

asym_us_dd_cor_correction_mean vs run
χ² / ndf 85.77 / 85
p0 −287 ± 620.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −121.6
Std Dev 0
2
1
0
−1
−2

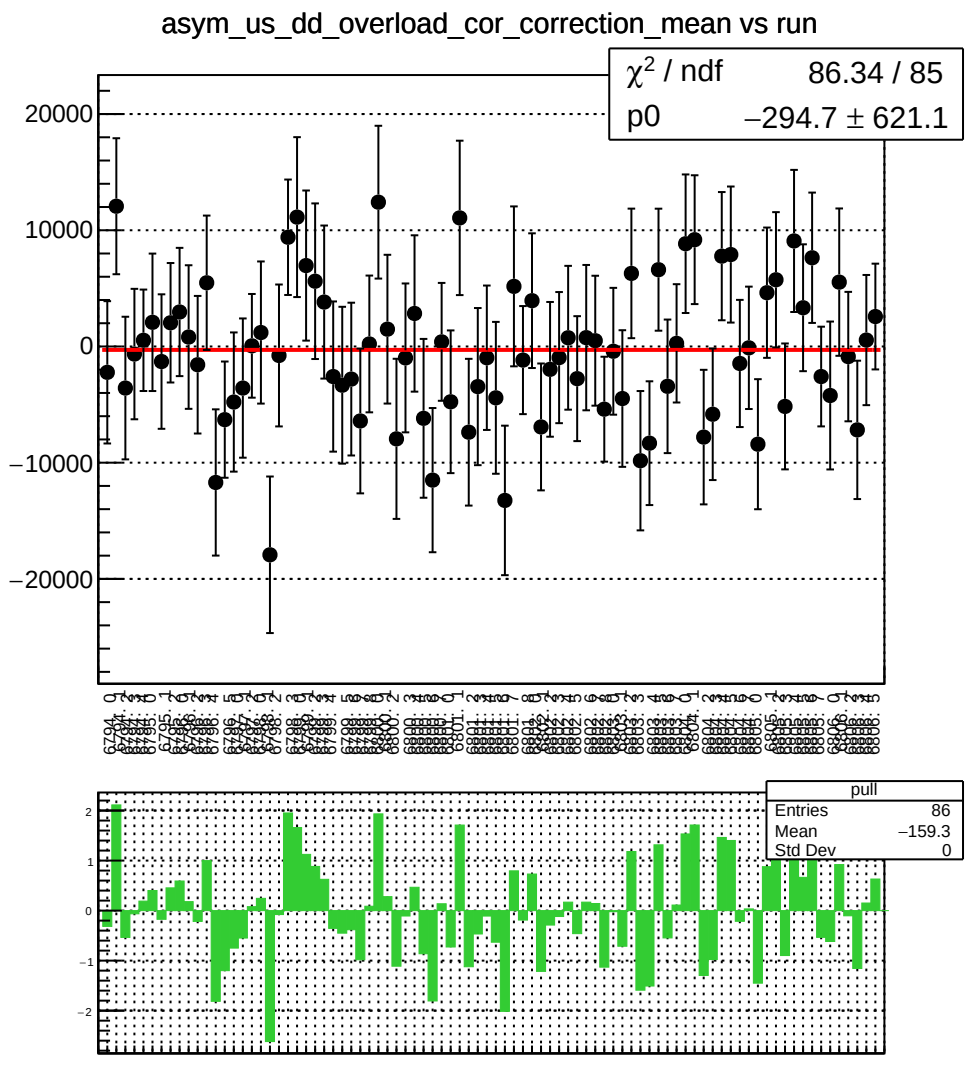

pull1D
Entries 86
Mean −0.003125
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

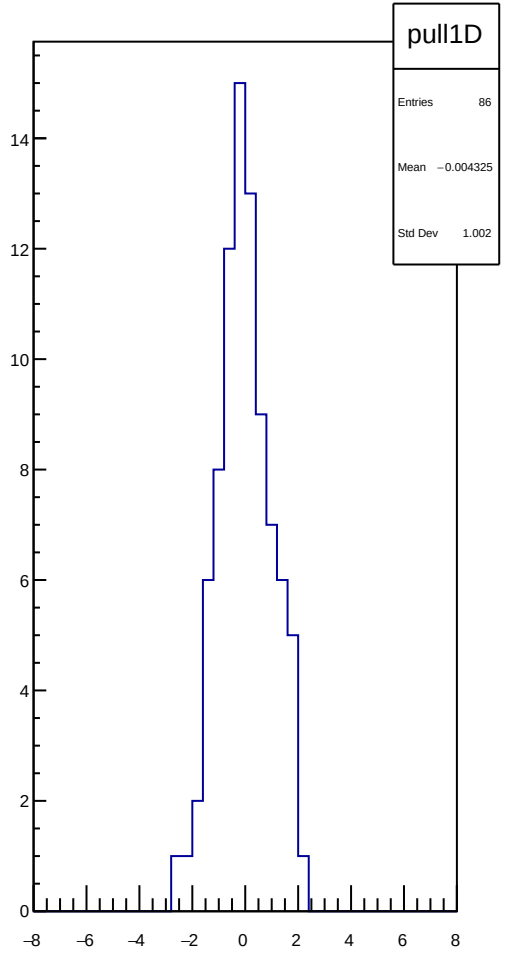

asym_us_dd_cor_correction_rms vs run
χ² / ndf 7912 / 85
p0 567.4 ± 0.4384
660
640
620
600
580
560
540
520
500
480

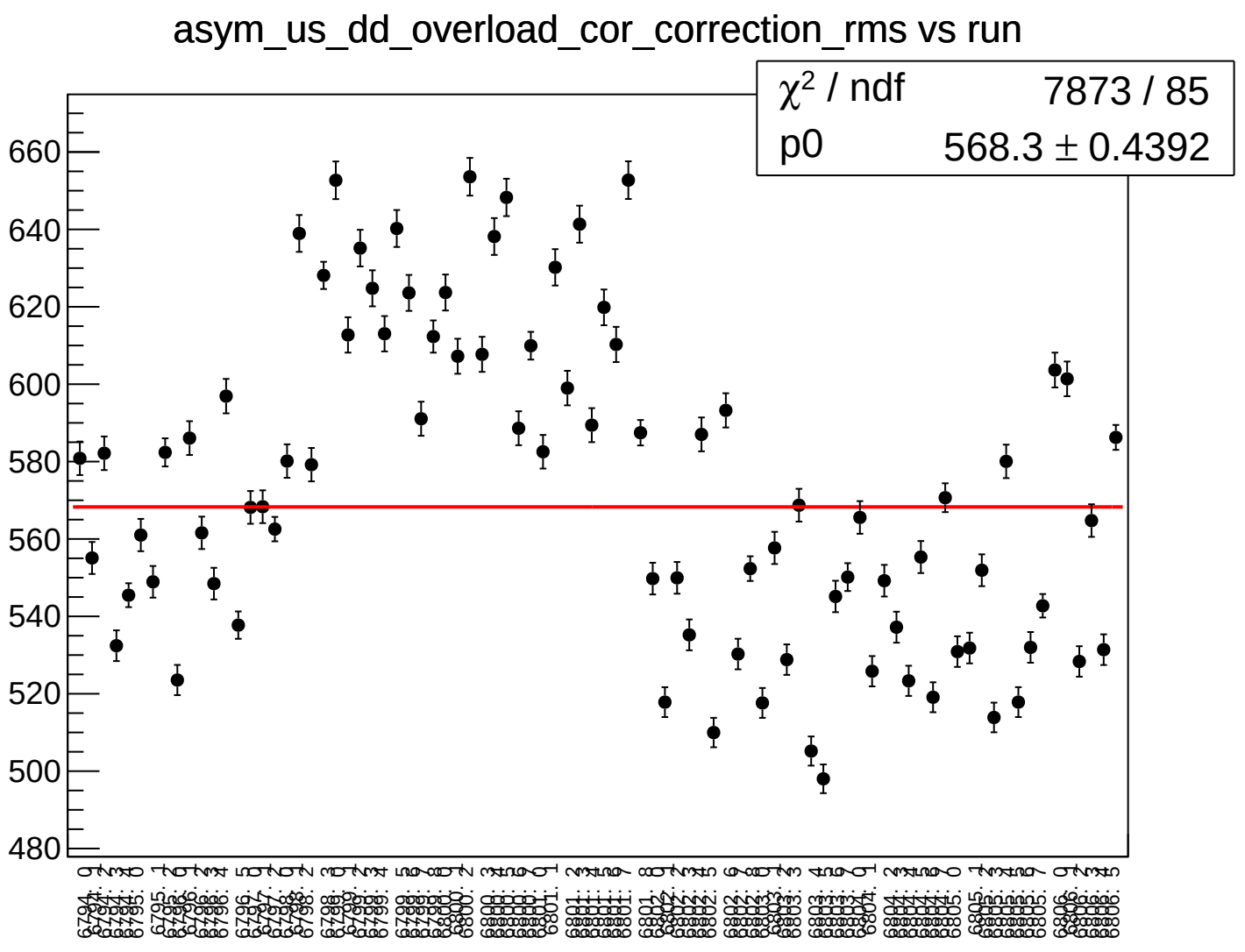

overload_cor_asym_us_dd_mean vs run
χ² / ndf 81.55 / 85
p0 475.3 ± 841.9
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean 71.32
Std Dev 66.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

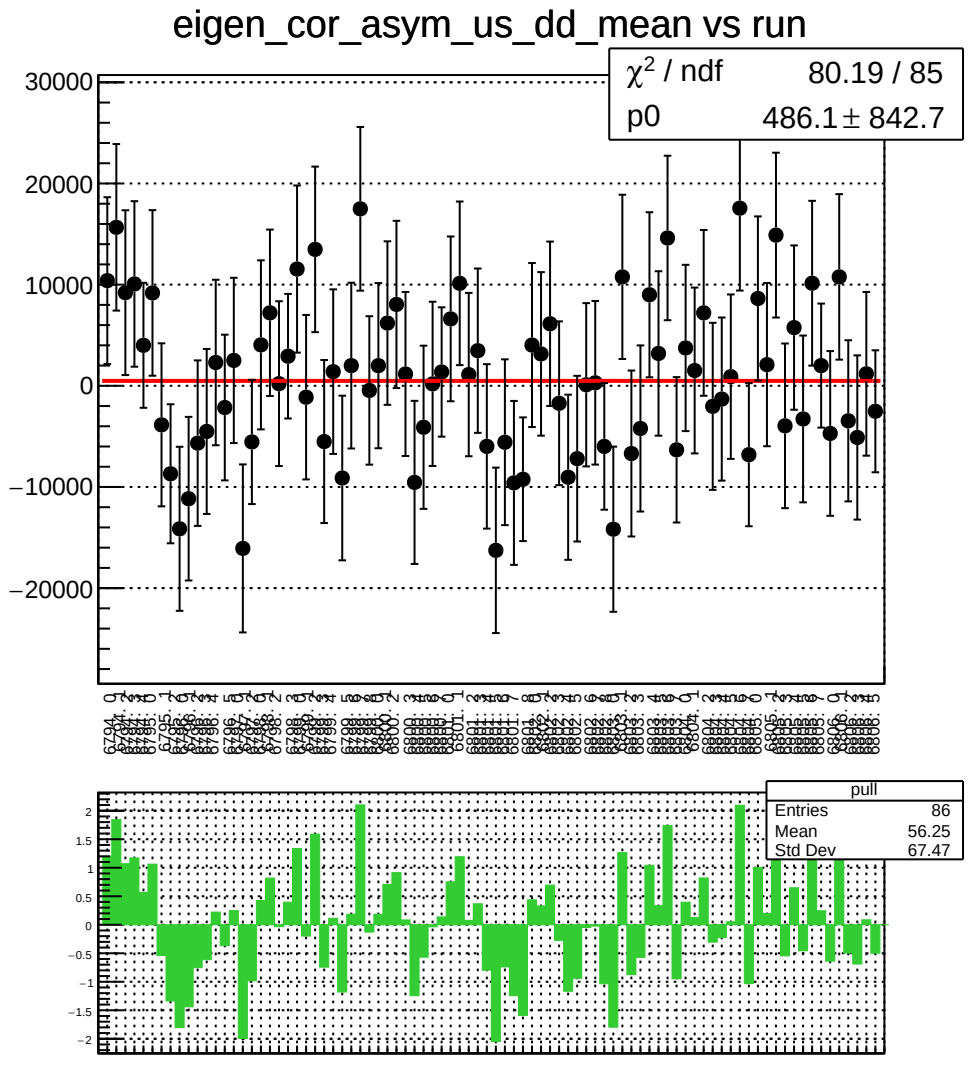

pull1D
Entries 86
Mean 0.01751
Std Dev 0.9736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

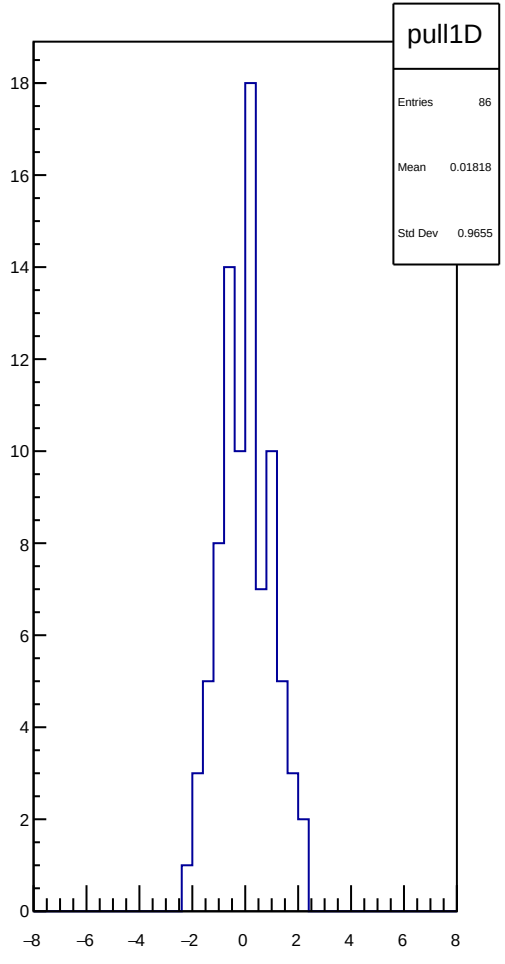

overload_cor_asym_us_dd_rms vs run
χ² / ndf 95.07 / 85
p0 772.2 ± 0.5953
800
790
780
770
760
750

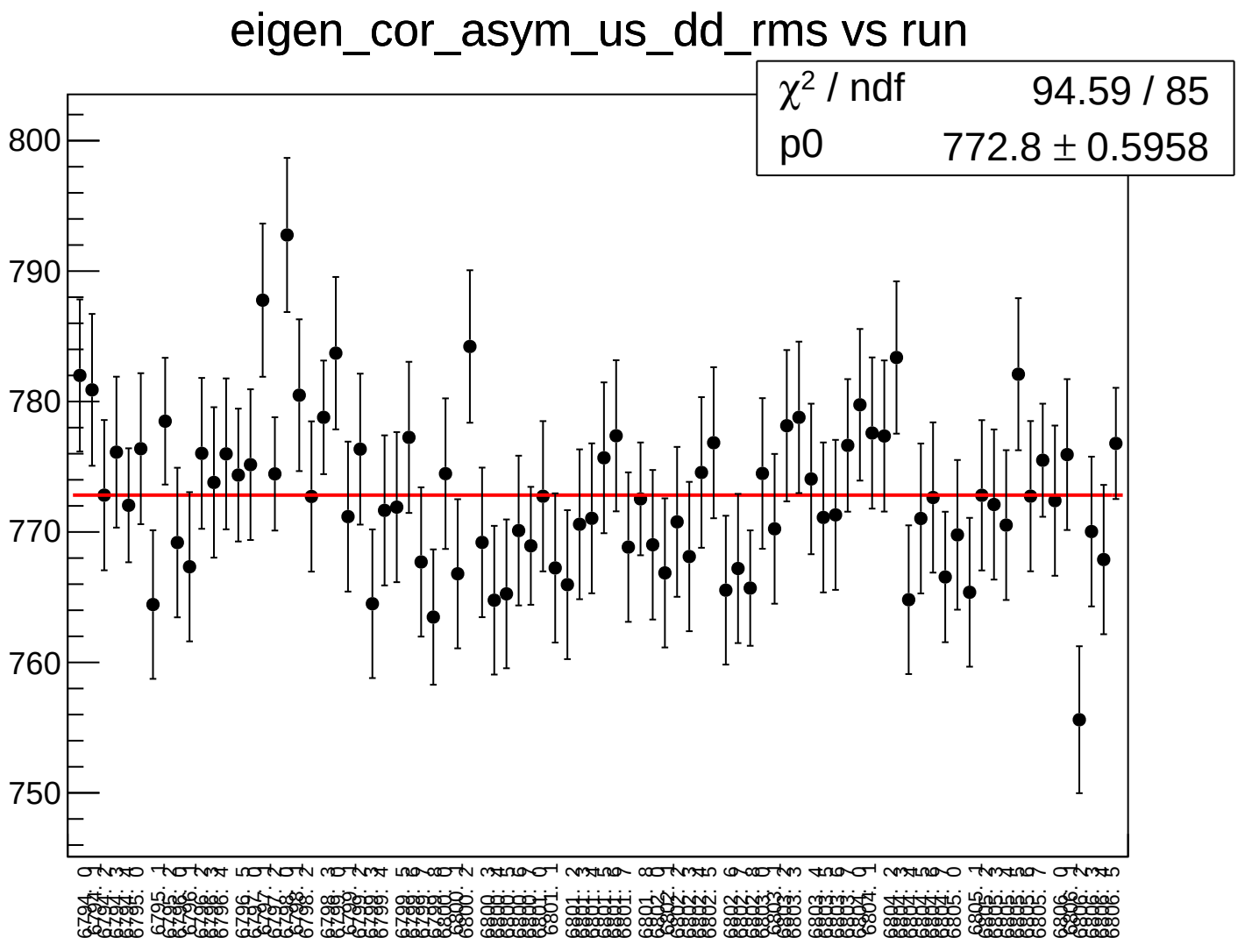

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 86.34 / 85
p0 −294.7 ± 621.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −159.3
Std Dev 0
2
1
0
−1
−2

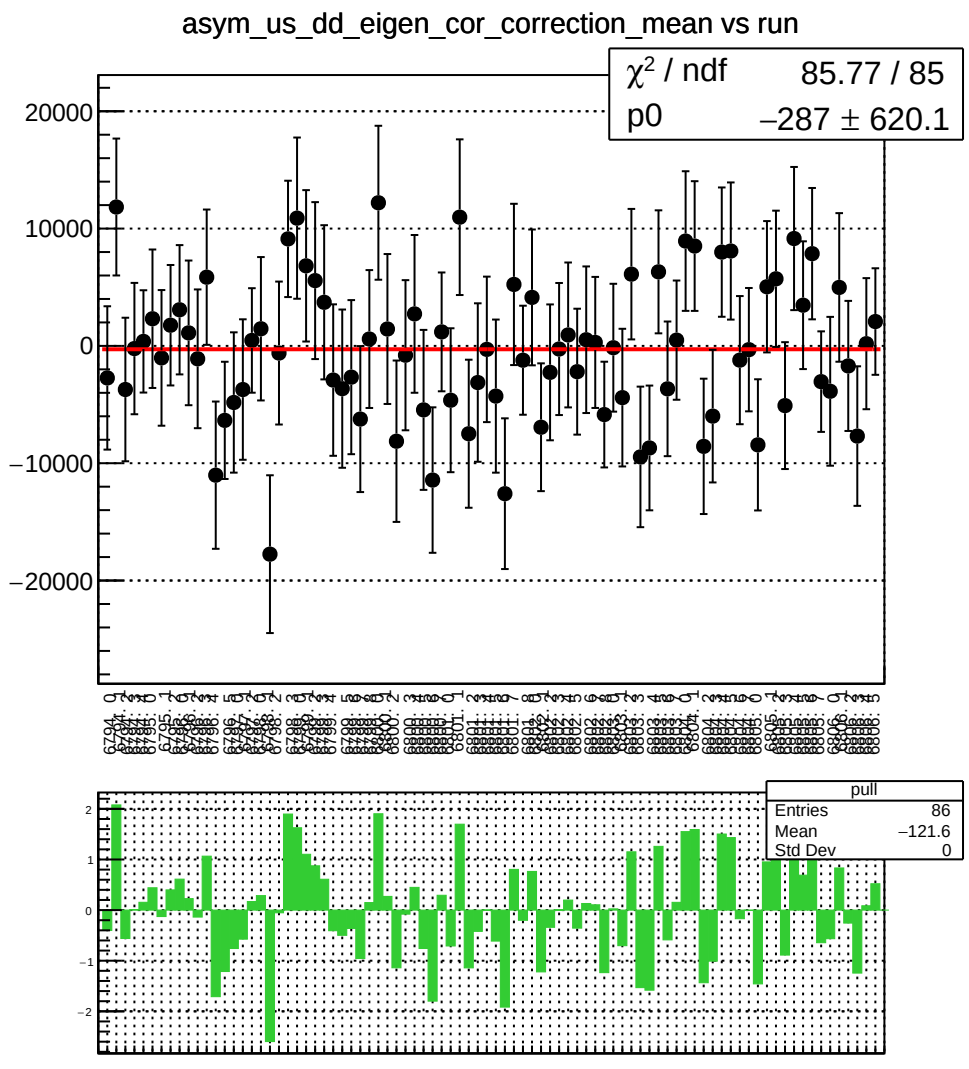

pull1D
Entries 86
Mean −0.004325
Std Dev 1.002
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

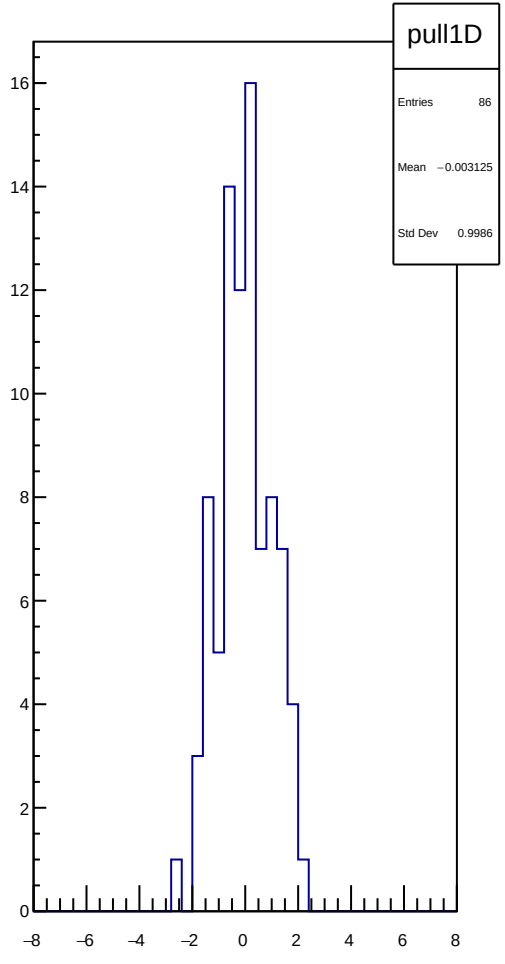

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 7873 / 85
p0 568.3 ± 0.4392
660
640
620
600
580
560
540
520
500
480

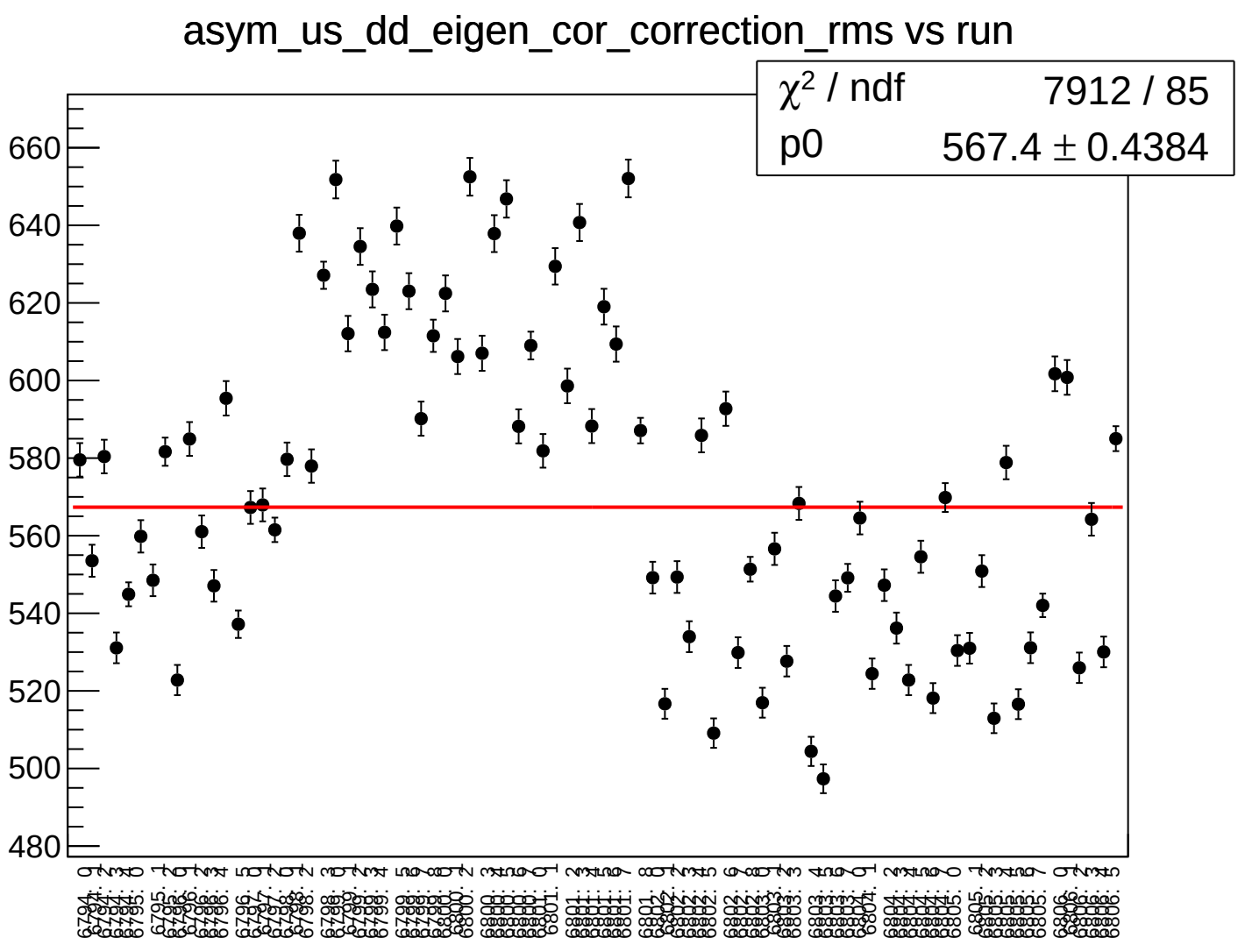

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 80.19 / 85
p0 486.1 ± 842.7
pull
Entries 86
Mean 56.25
Std Dev 67.47

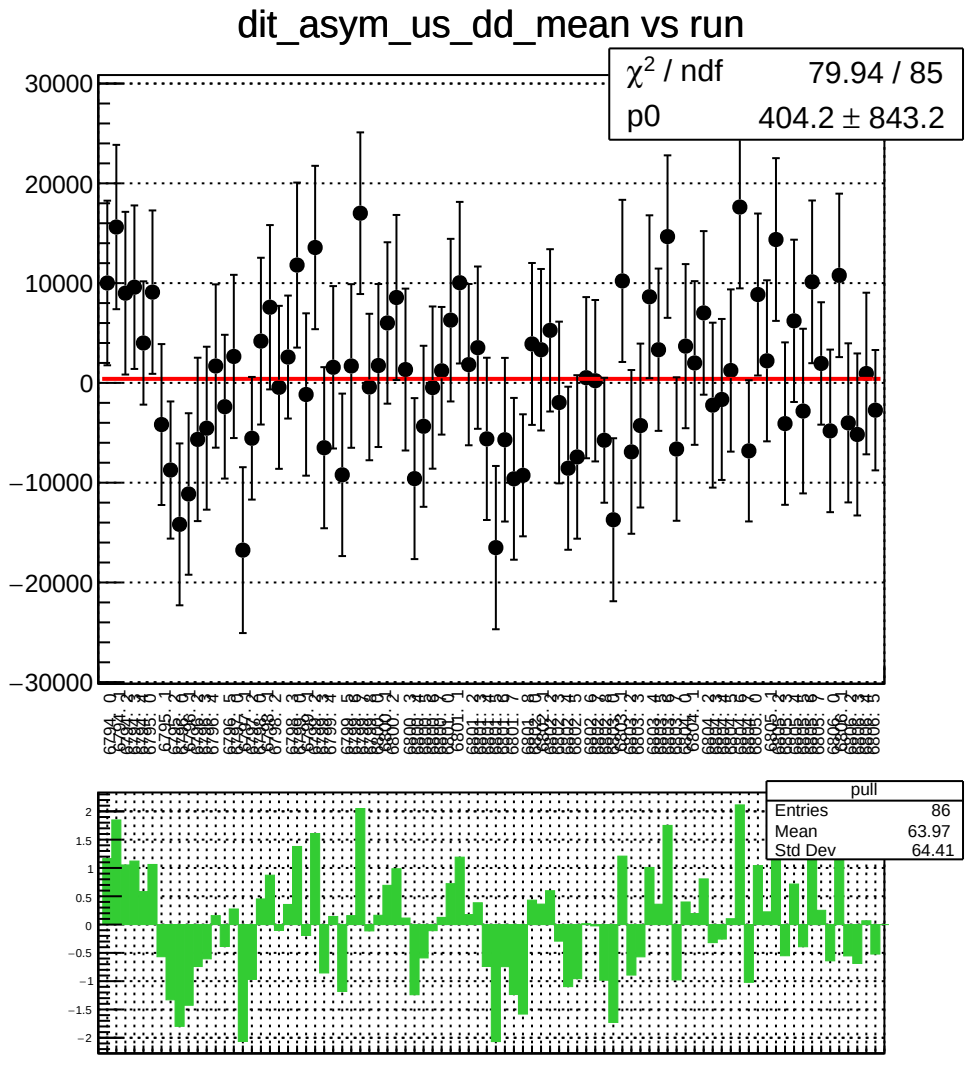

pull1D
Entries 86
Mean 0.01818
Std Dev 0.9655

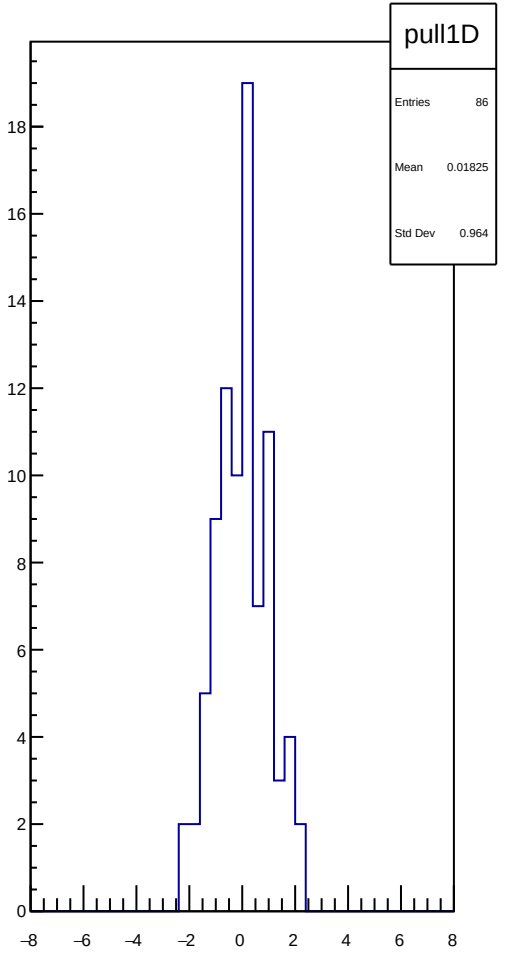

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 94.59 / 85
p0 772.8 ± 0.5958
800
790
780
770
760
750

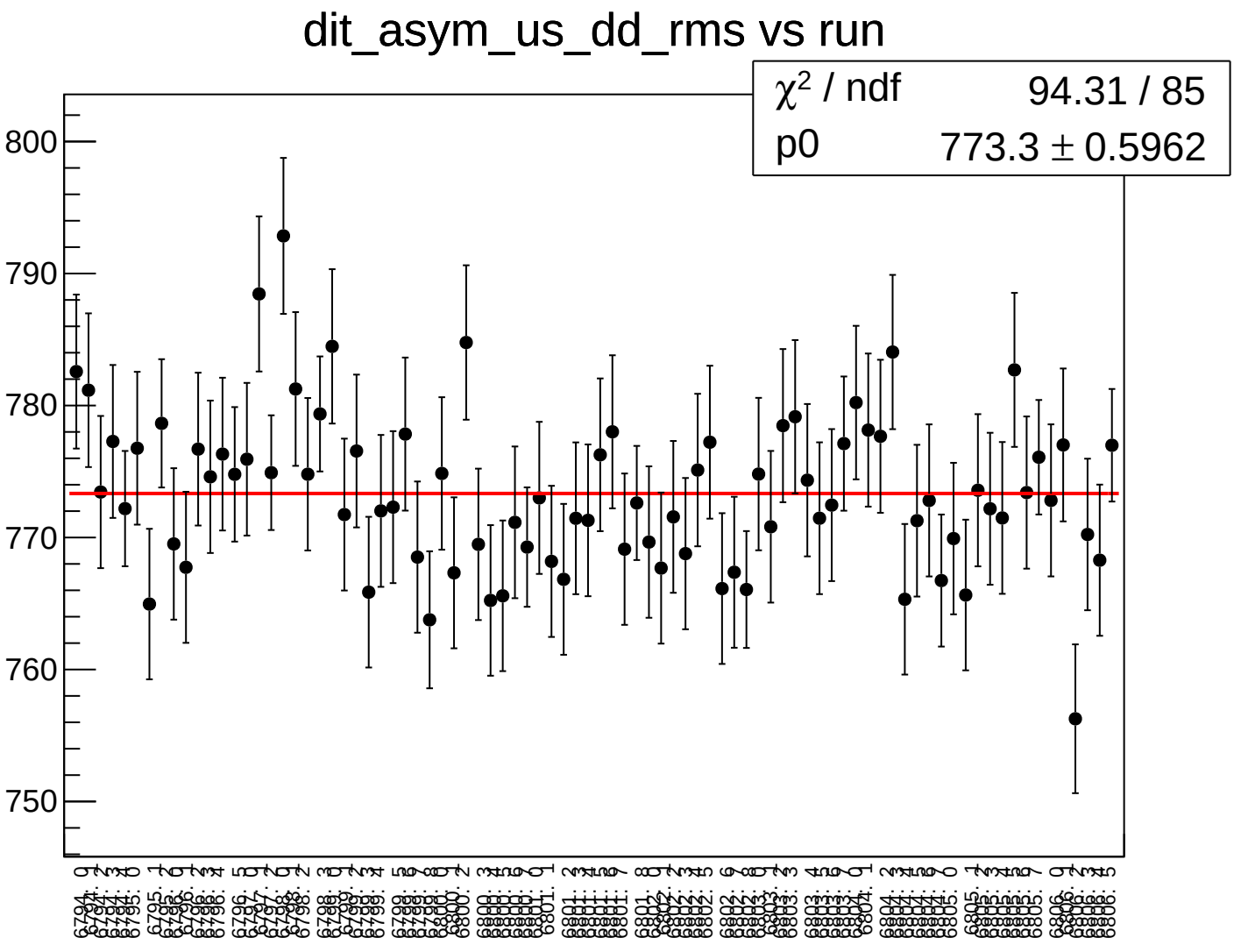

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 85.77 / 85
p0 −287 ± 620.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −121.6
Std Dev 0
2
1
0
−1
−2

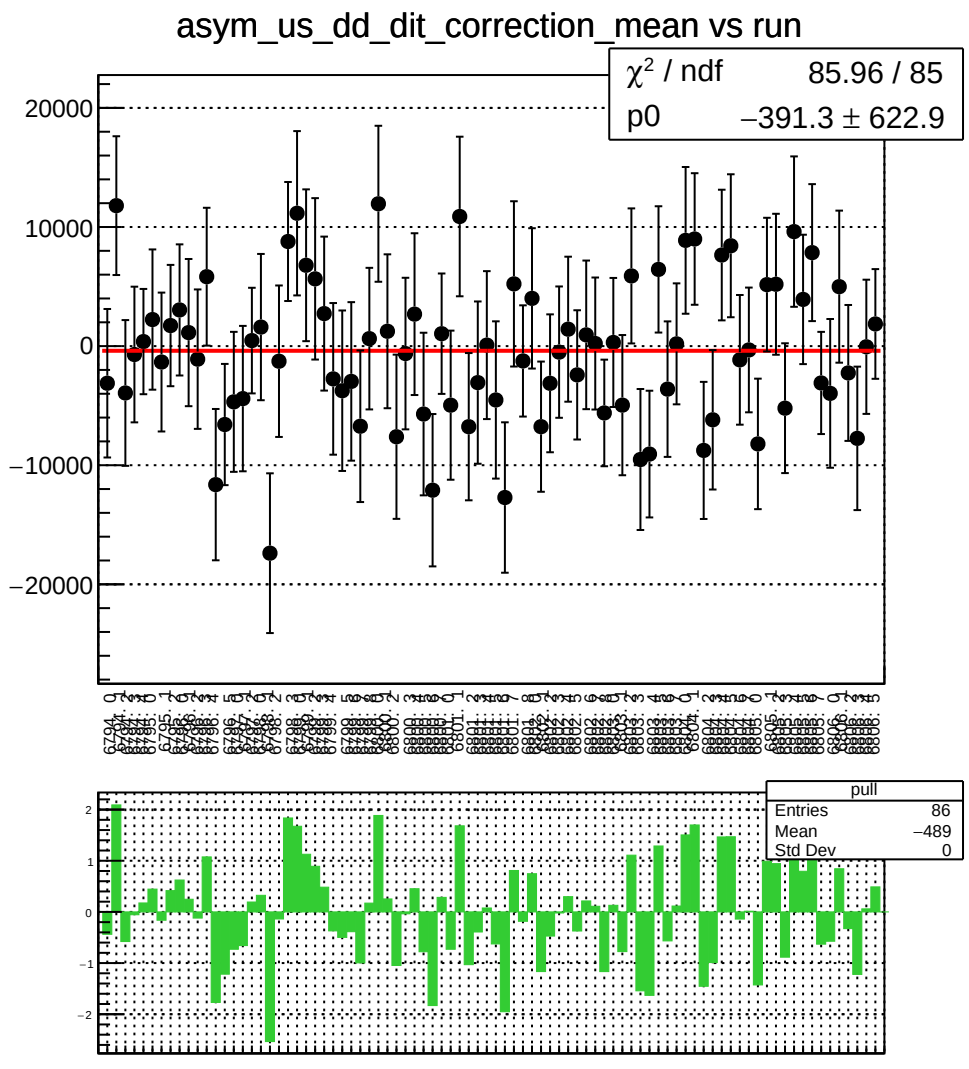

pull1D
Entries 86
Mean −0.003125
Std Dev 0.9986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

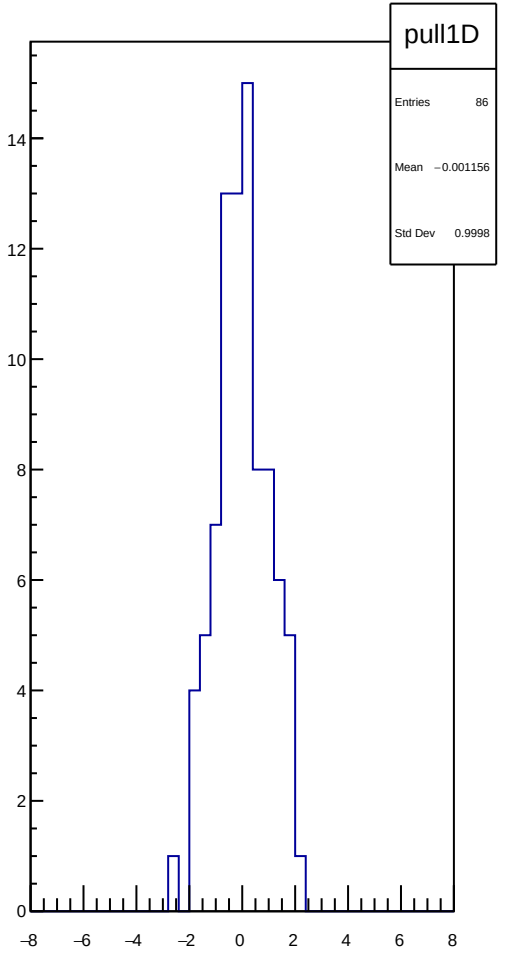

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 7912 / 85
p0 567.4 ± 0.4384
660
640
620
600
580
560
540
520
500
480

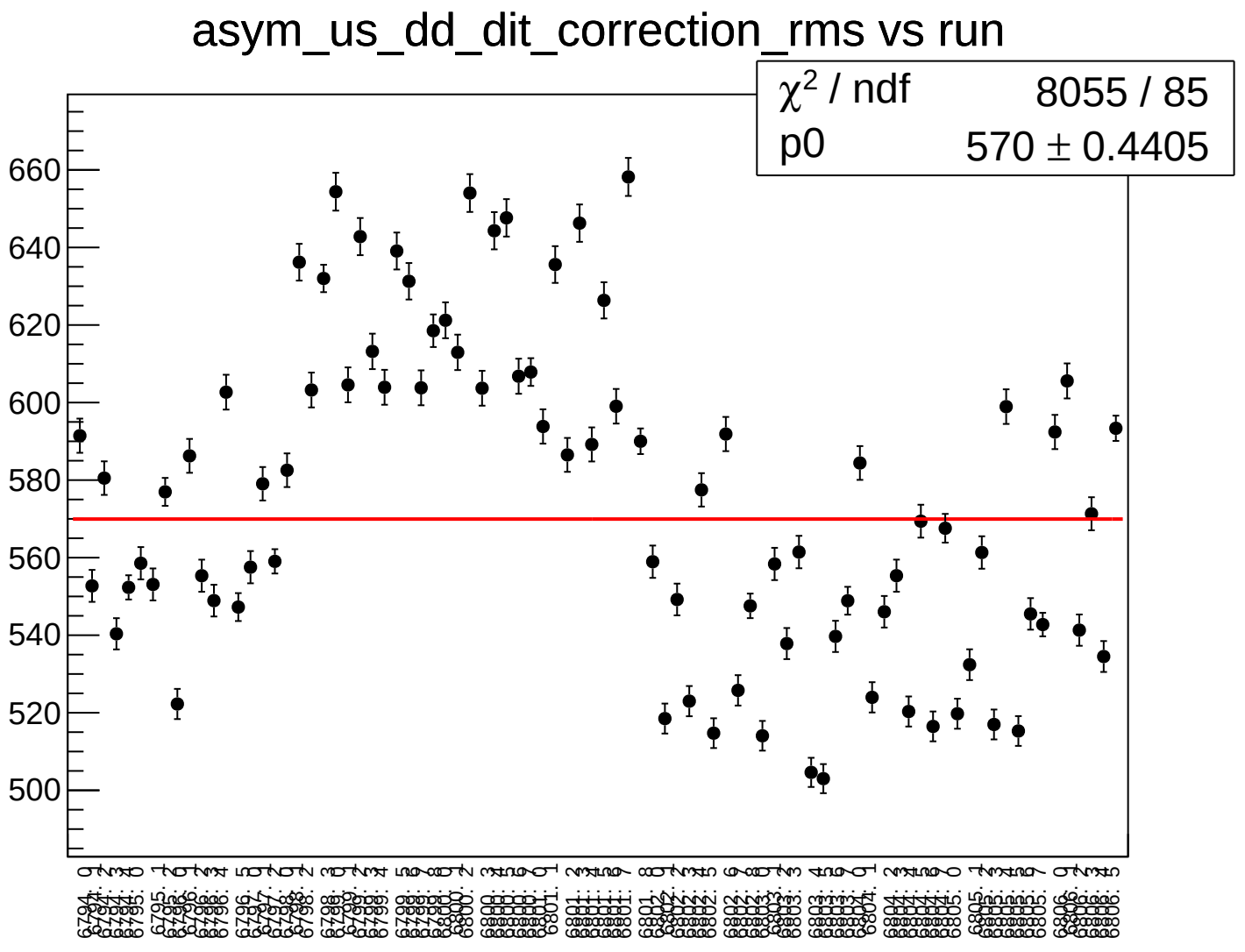

dit_asym_us_dd_mean vs run
χ² / ndf 79.94 / 85
p0 404.2 ± 843.2
pull
Entries 86
Mean 63.97
Std Dev 64.41

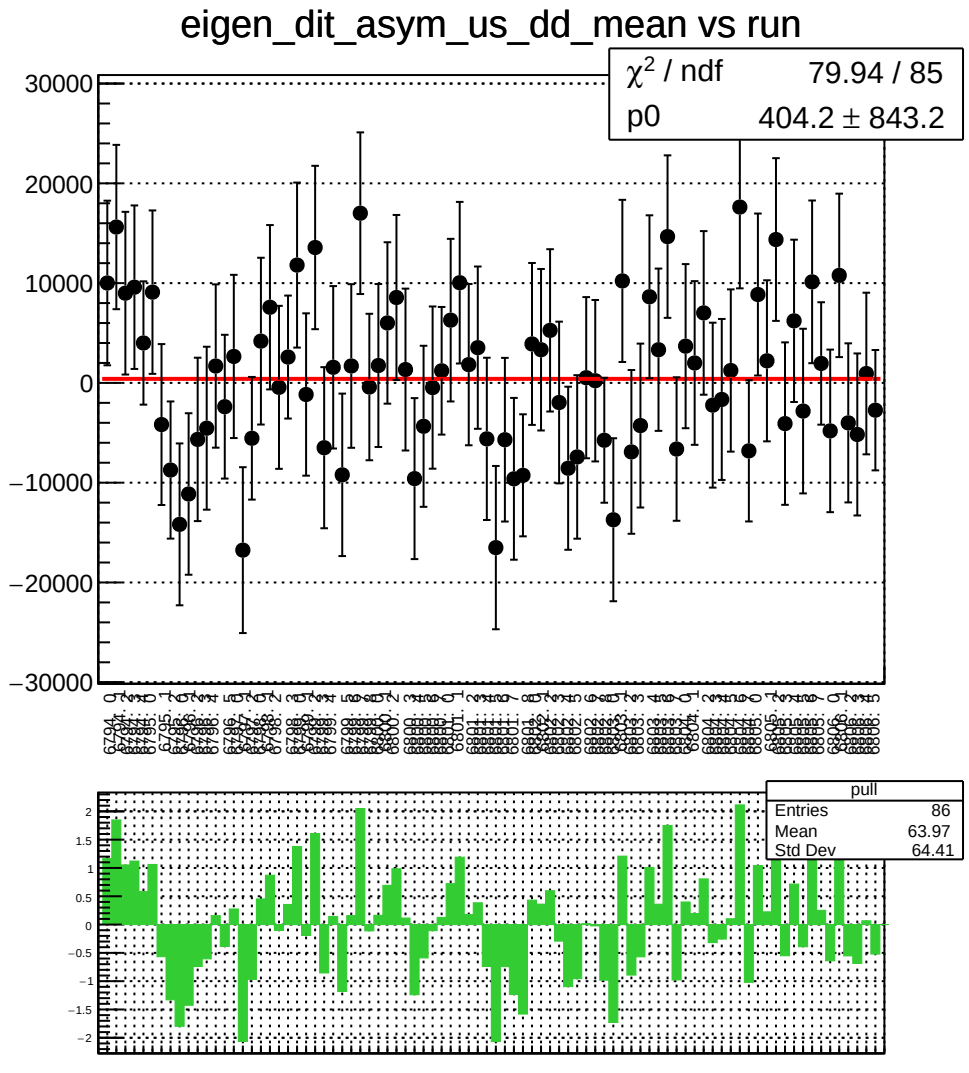

pull1D
Entries 86
Mean 0.01825
Std Dev 0.964

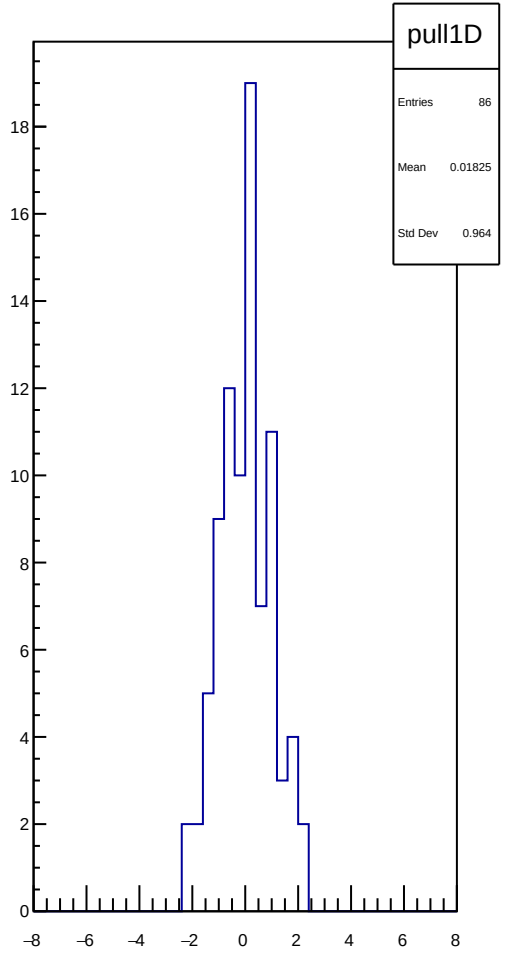

dit_asym_us_dd_rms vs run
χ² / ndf 94.31 / 85
p0 773.3 ± 0.5962
800
790
780
770
760
750

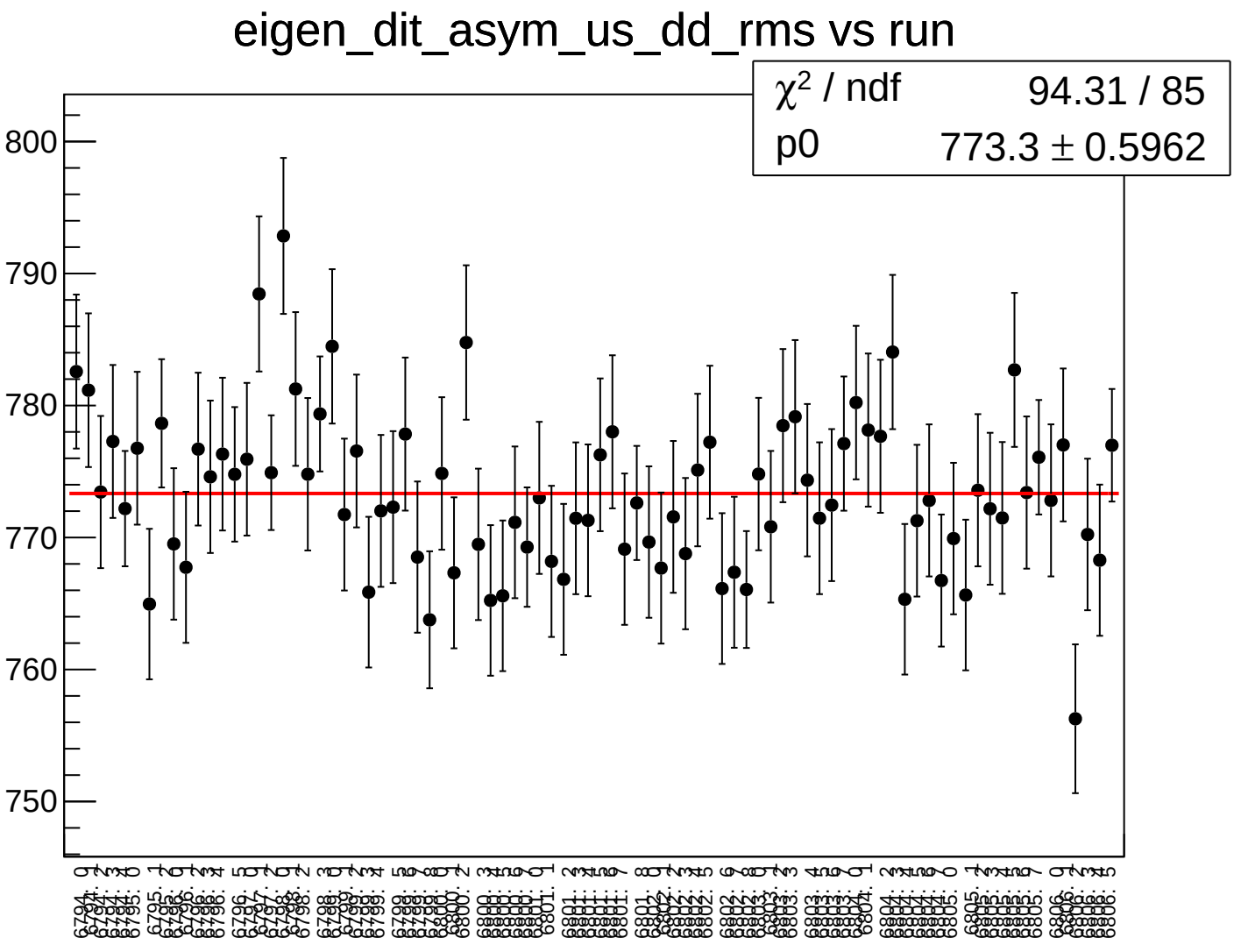

asym_us_dd_dit_correction_mean vs run
χ² / ndf 85.96 / 85
p0 −391.3 ± 622.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −489
Std Dev 0
2
1
0
−1
−2

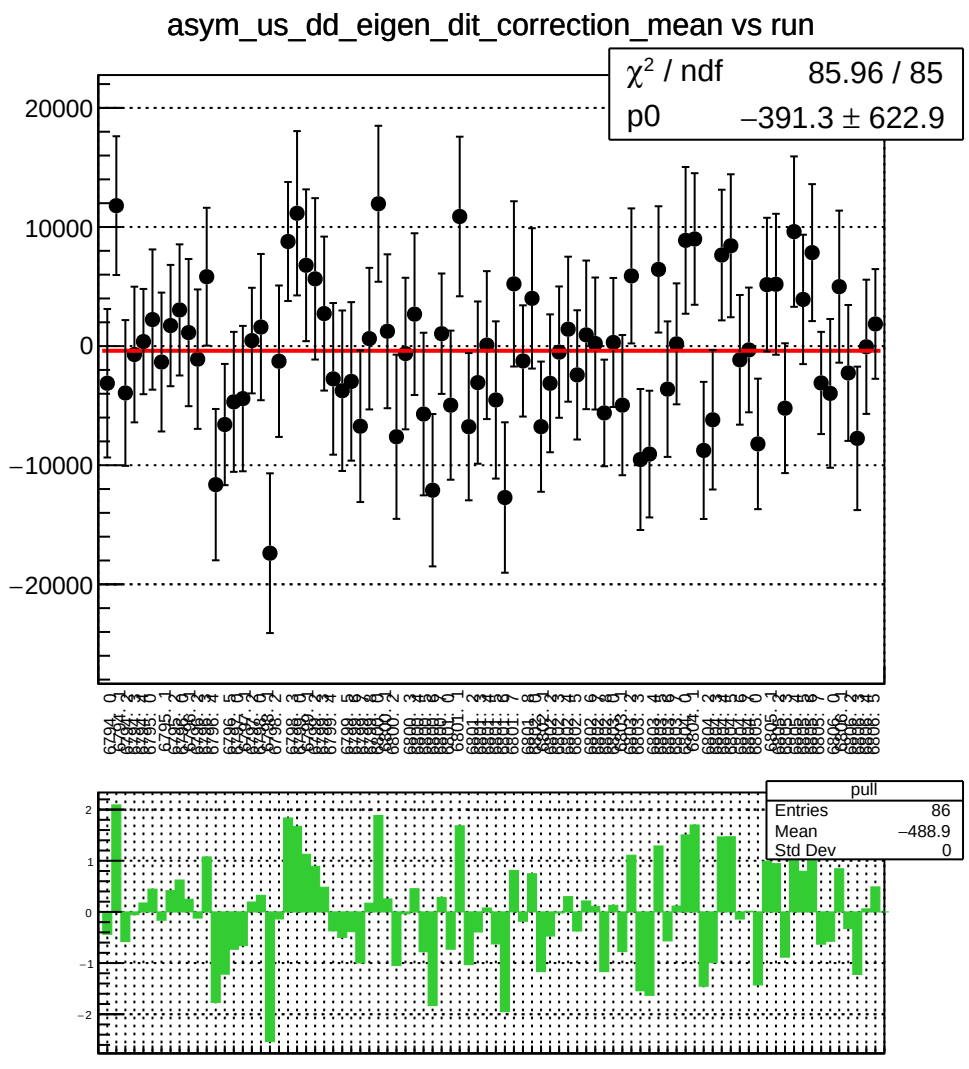

pull1D
Entries 86
Mean −0.001156
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

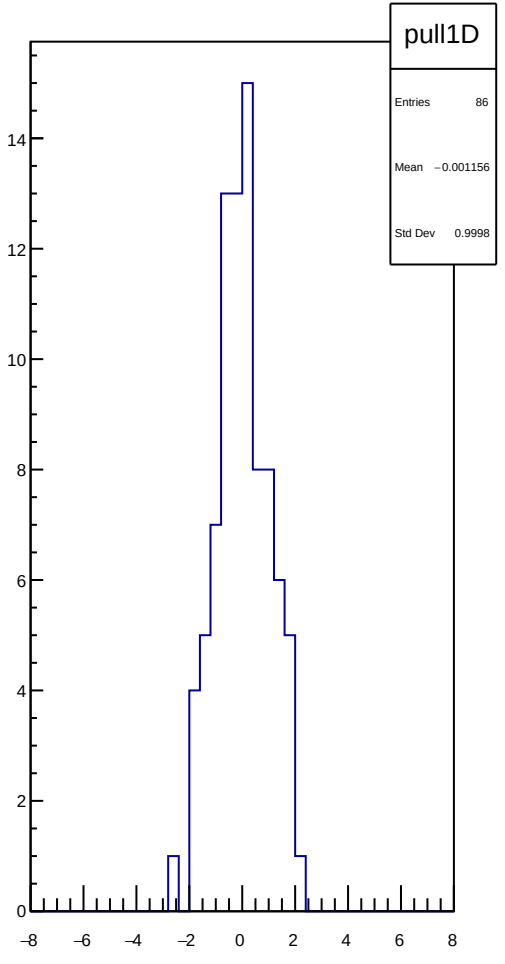

asym_us_dd_dit_correction_rms vs run
χ² / ndf 8055 / 85
p0 570 ± 0.4405
660
640
620
600
580
560
540
520
500

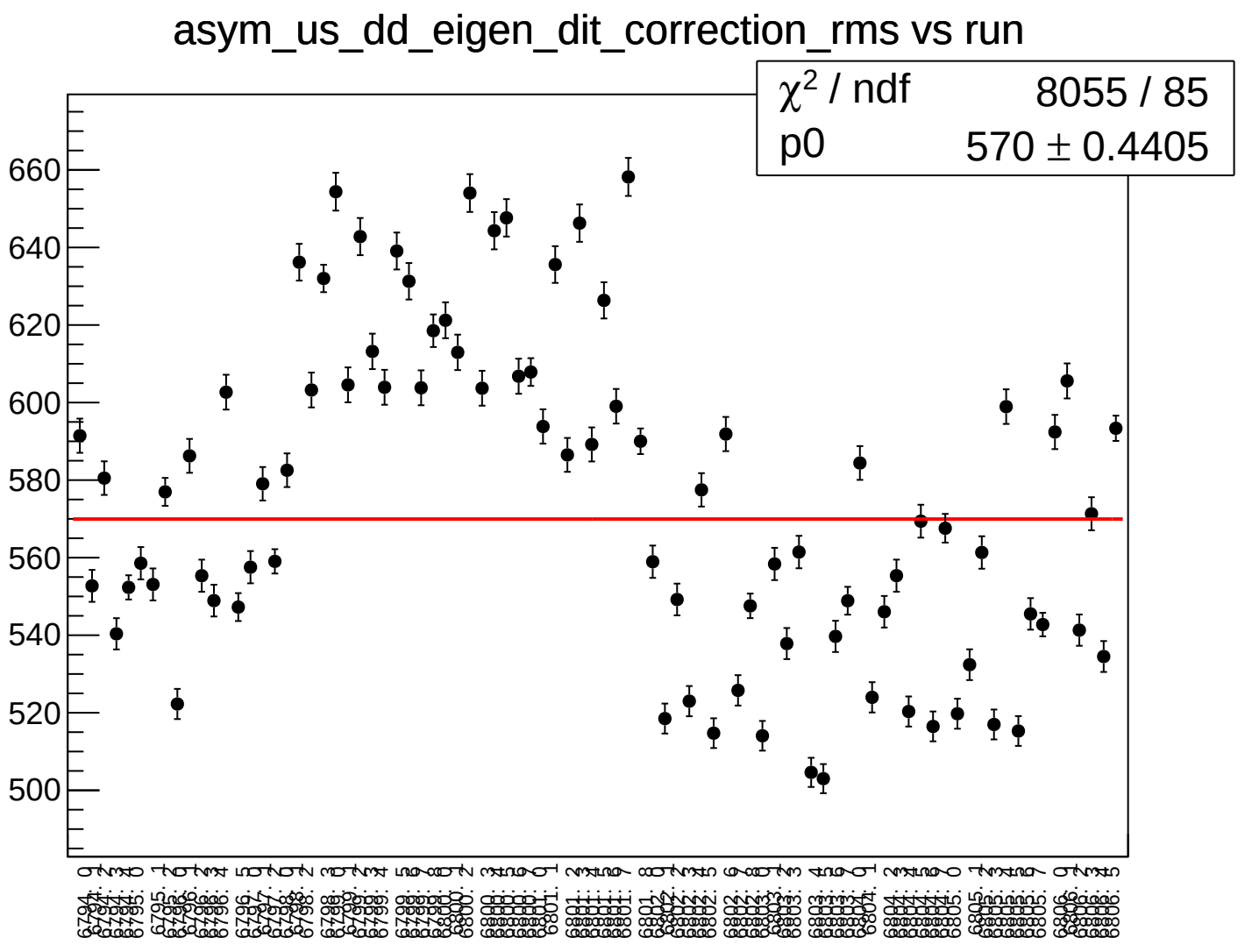

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 79.94 / 85
p0 404.2 ± 843.2
pull
Entries 86
Mean 63.97
Std Dev 64.41

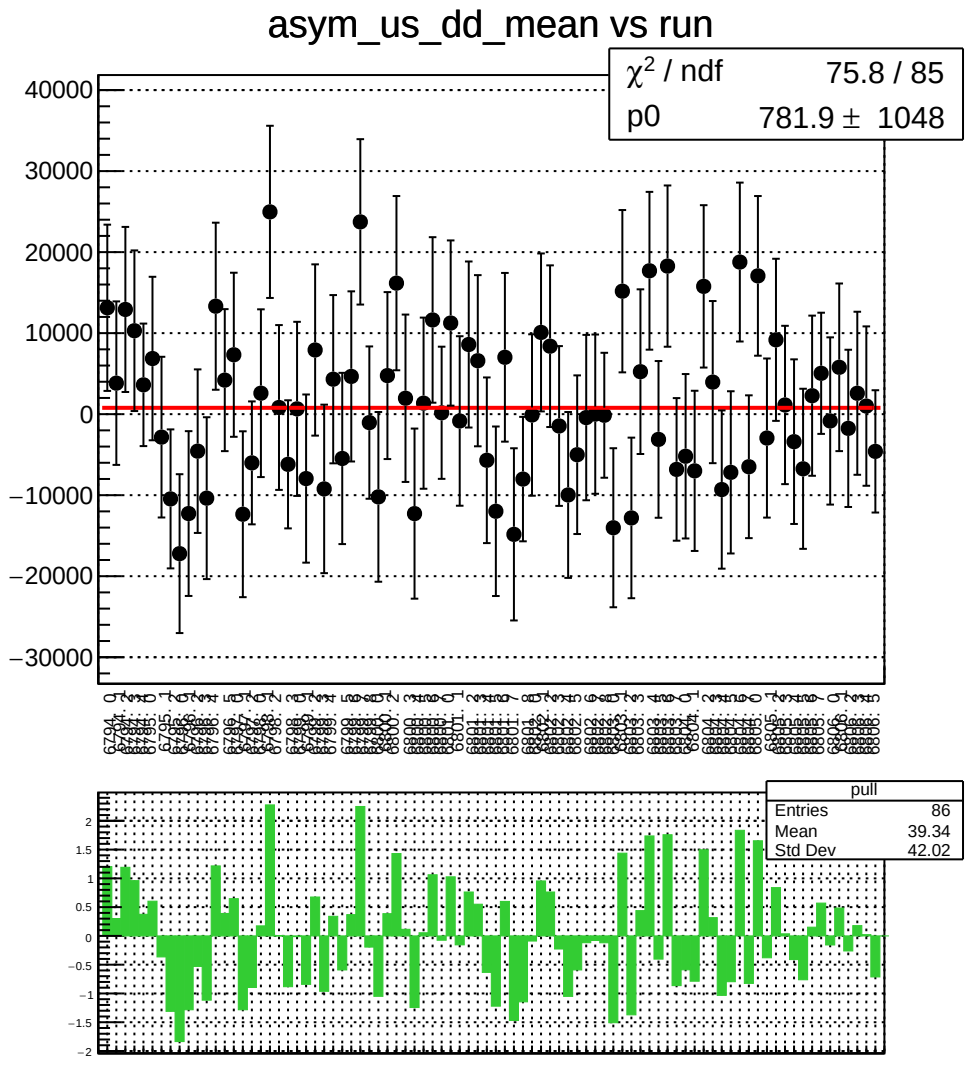

pull1D
Entries 86
Mean 0.01825
Std Dev 0.964

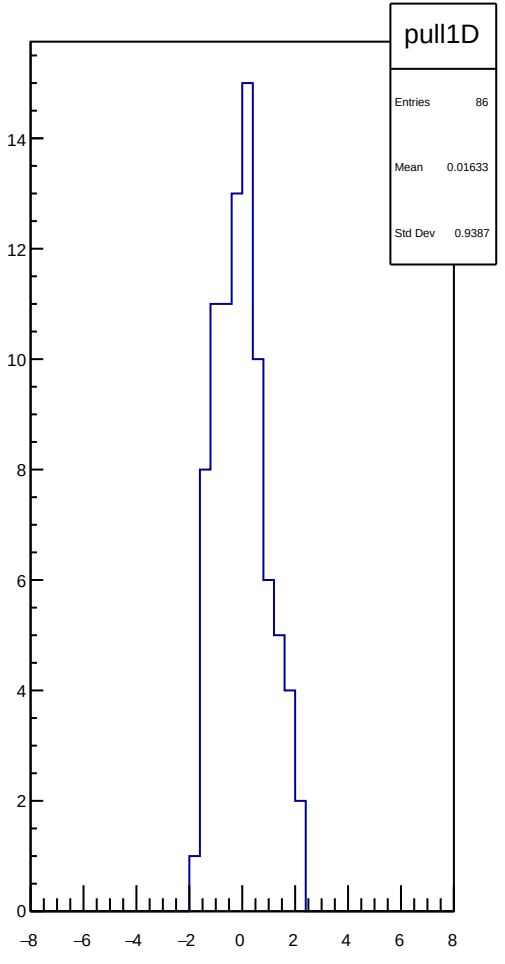

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 94.31 / 85
p0 773.3 ± 0.5962
800
790
780
770
760
750

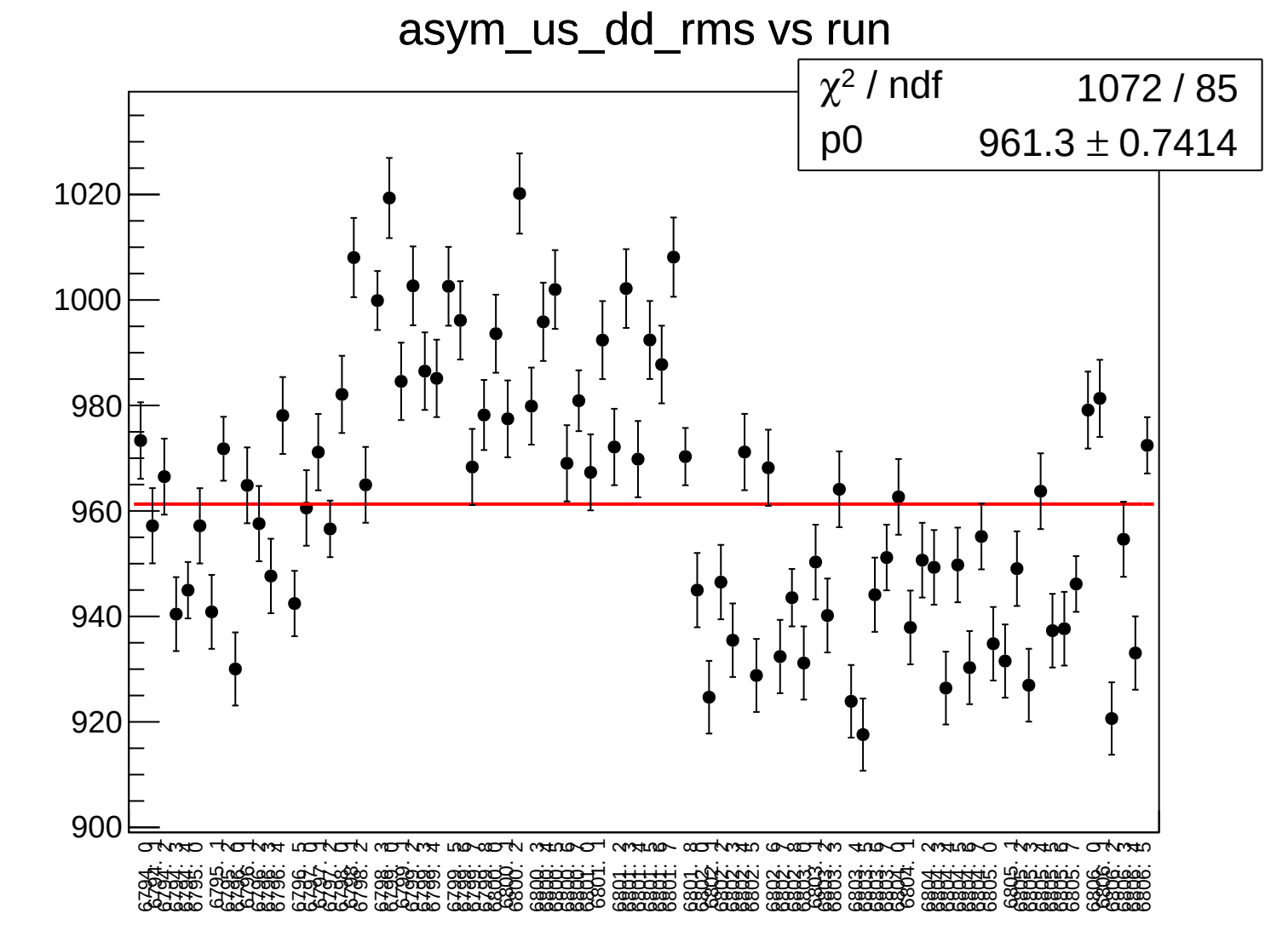

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.96 / 85
p0 −391.3 ± 622.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −488.9
Std Dev 0
2
1
0
−1
−2

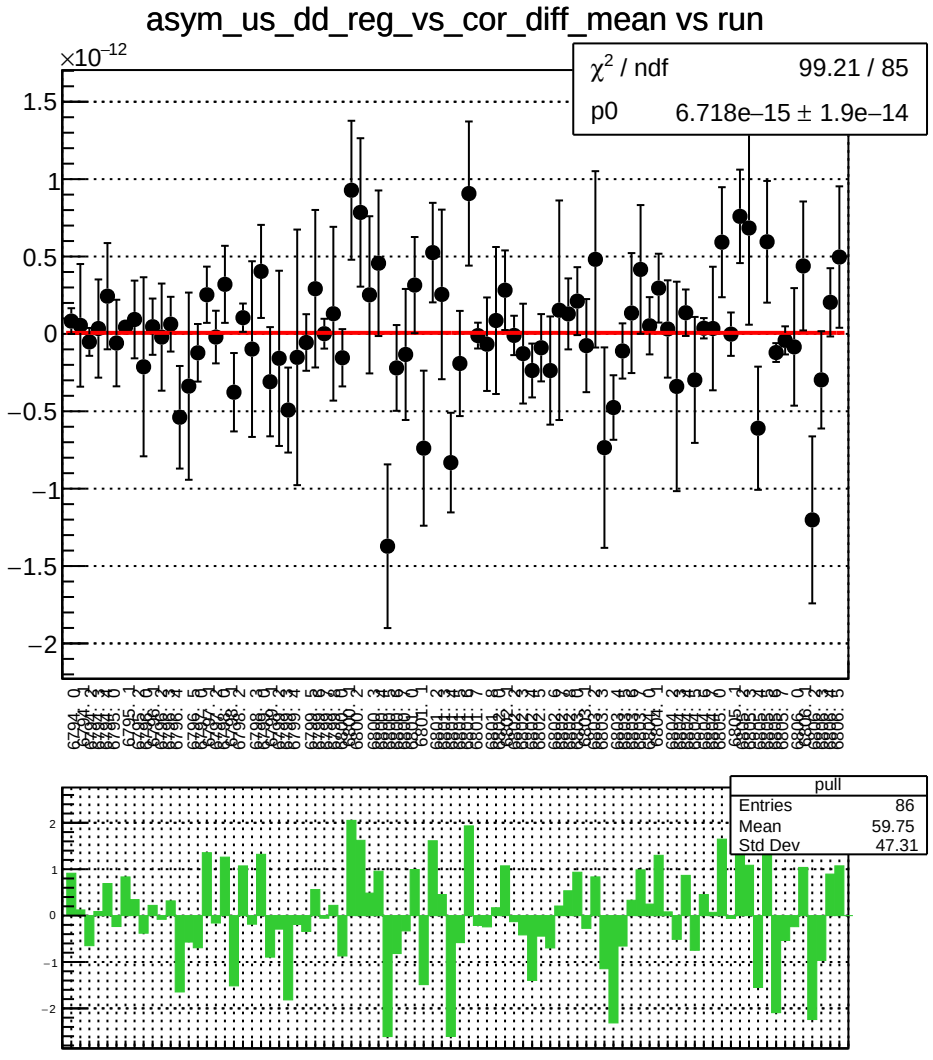

pull1D
Entries 86
Mean −0.001156
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

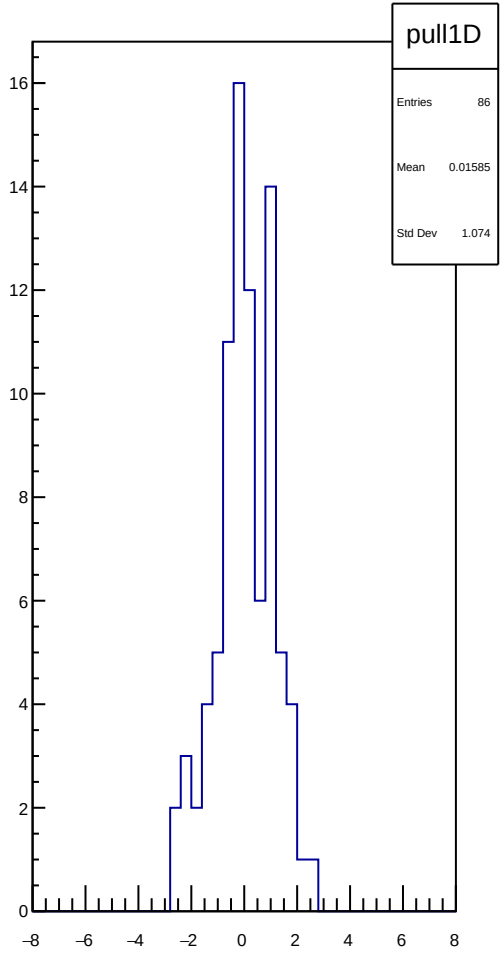

asym_us_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 8055 / 85
p0 570 ± 0.4405
660
640
620
600
580
560
540
520
500

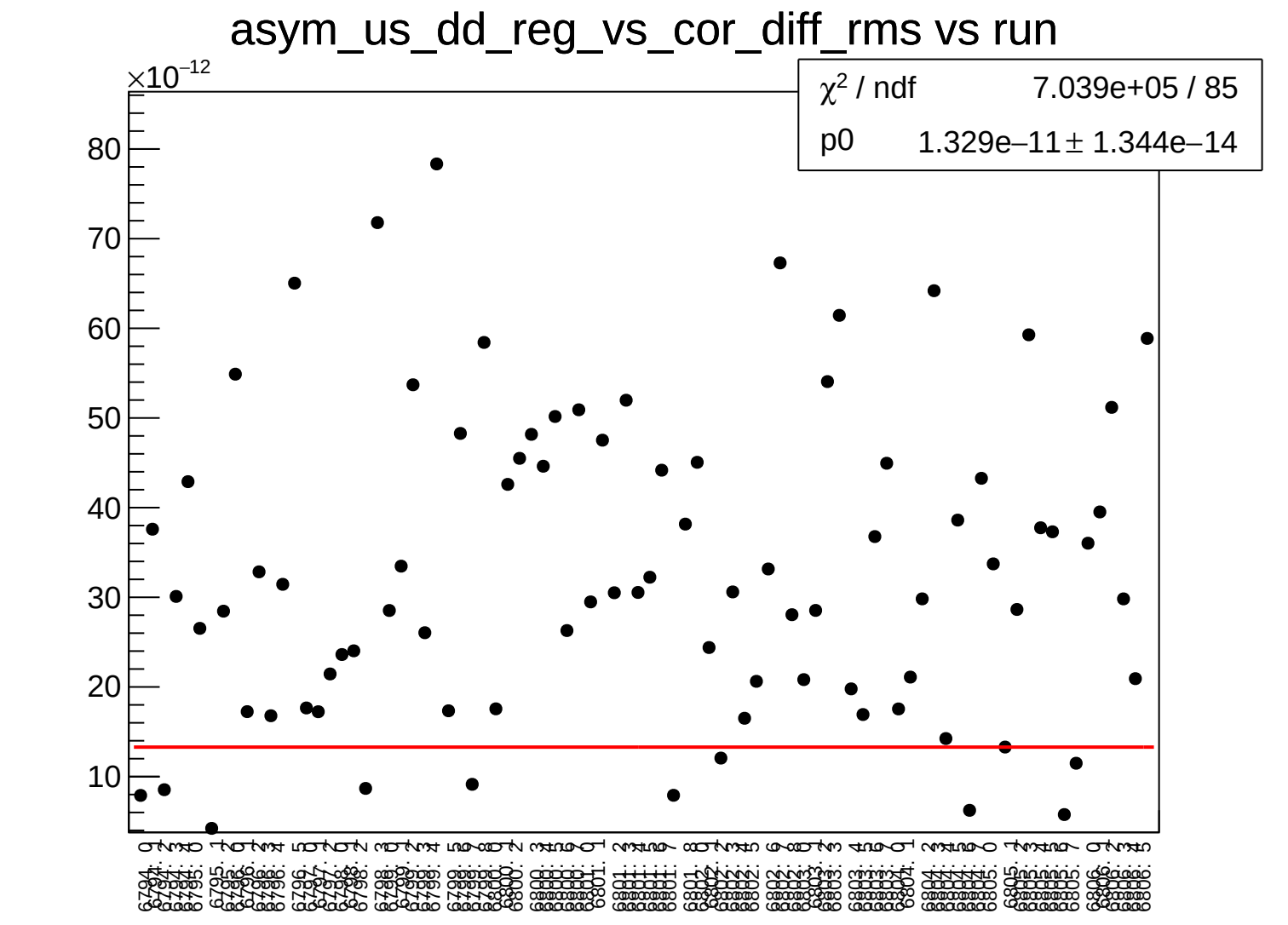

asym_us_dd_mean vs run
χ² / ndf 75.8 / 85
p0 781.9 ± 1048
pull
Entries 86
Mean 39.34
Std Dev 42.02

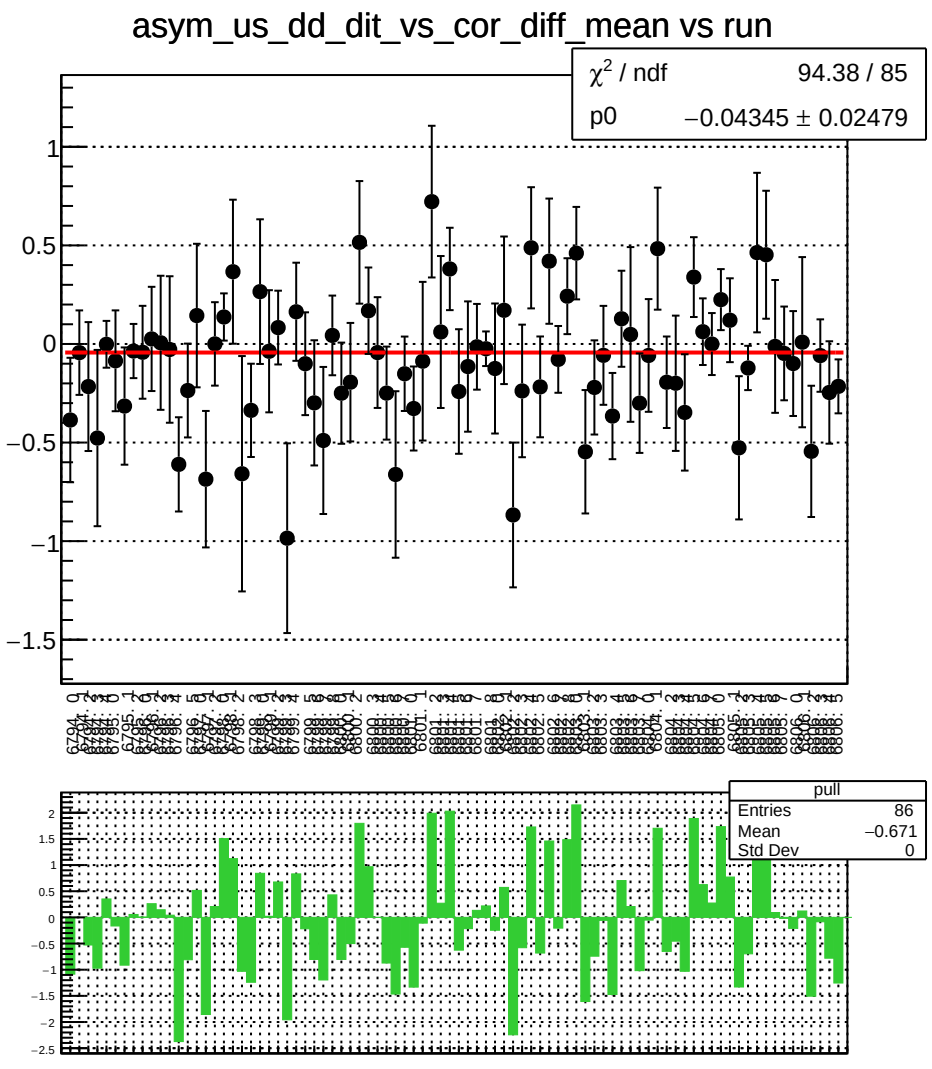

pull1D
Entries 86
Mean 0.01633
Std Dev 0.9387

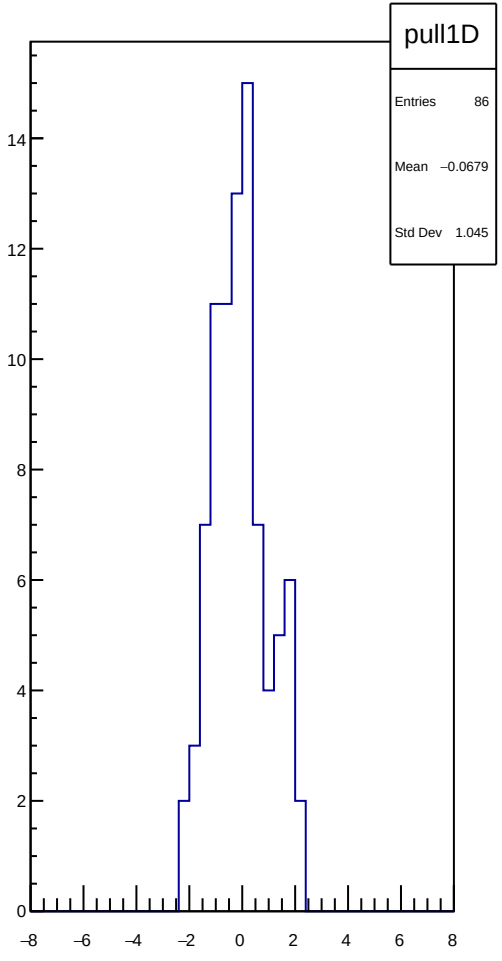

asym_us_dd_rms vs run
χ² / ndf 1072 / 85
p0 961.3 ± 0.7414
1020
1000
980
960
940
920
900

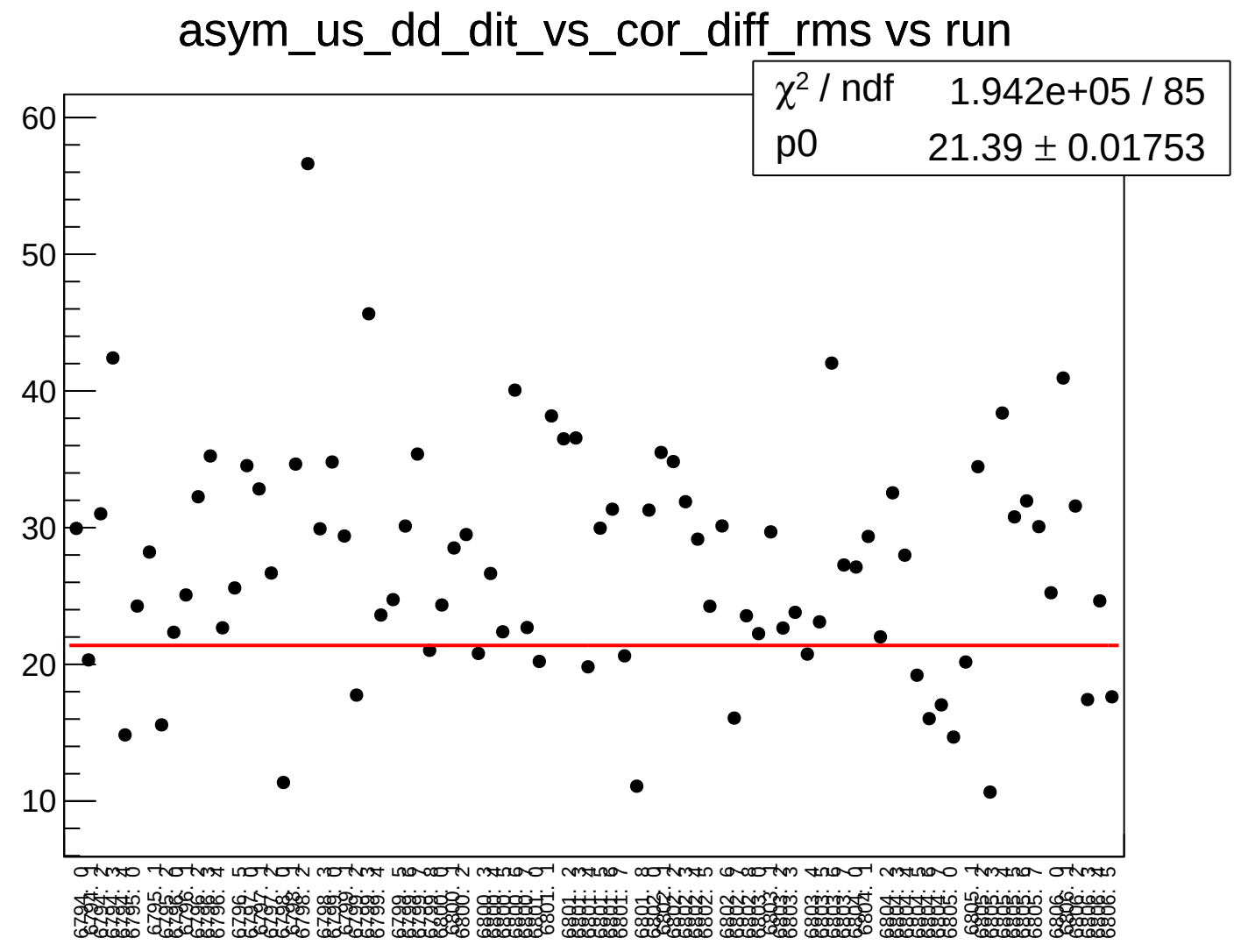

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.21 / 85
p0 6.718e−15 ± 1.9e−14
pull
Entries 86
Mean 59.75
Std Dev 47.31

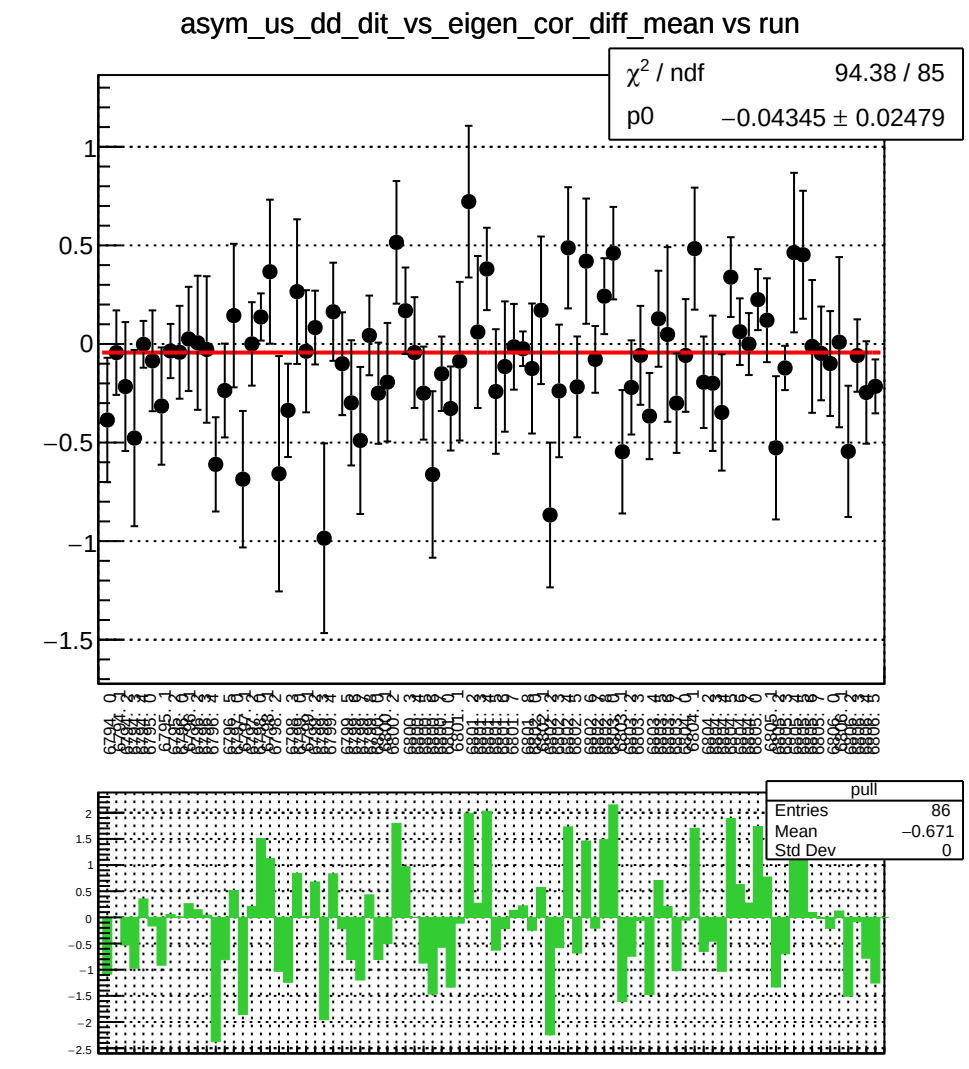

pull1D
Entries 86
Mean 0.01585
Std Dev 1.074

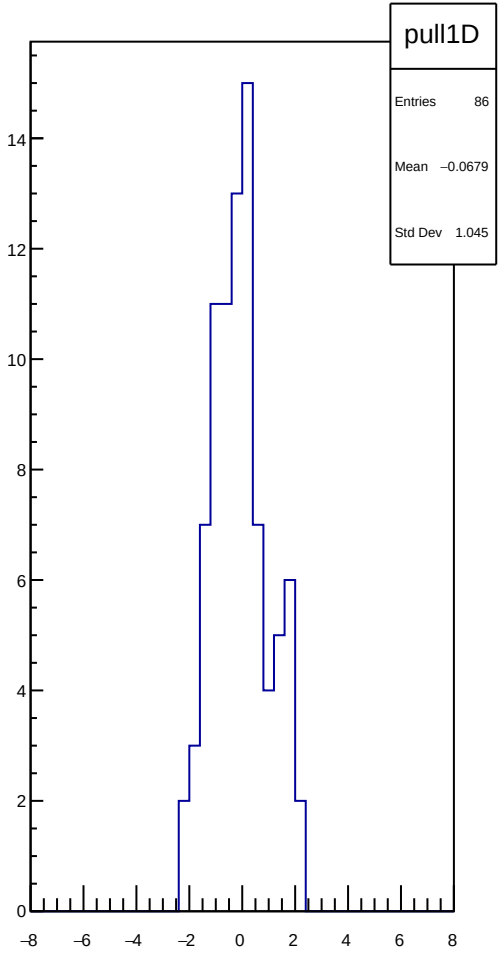

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.039e+05 / 85
p0 1.329e−11 ± 1.344e−14
80
70
60
50
40
30
20
10

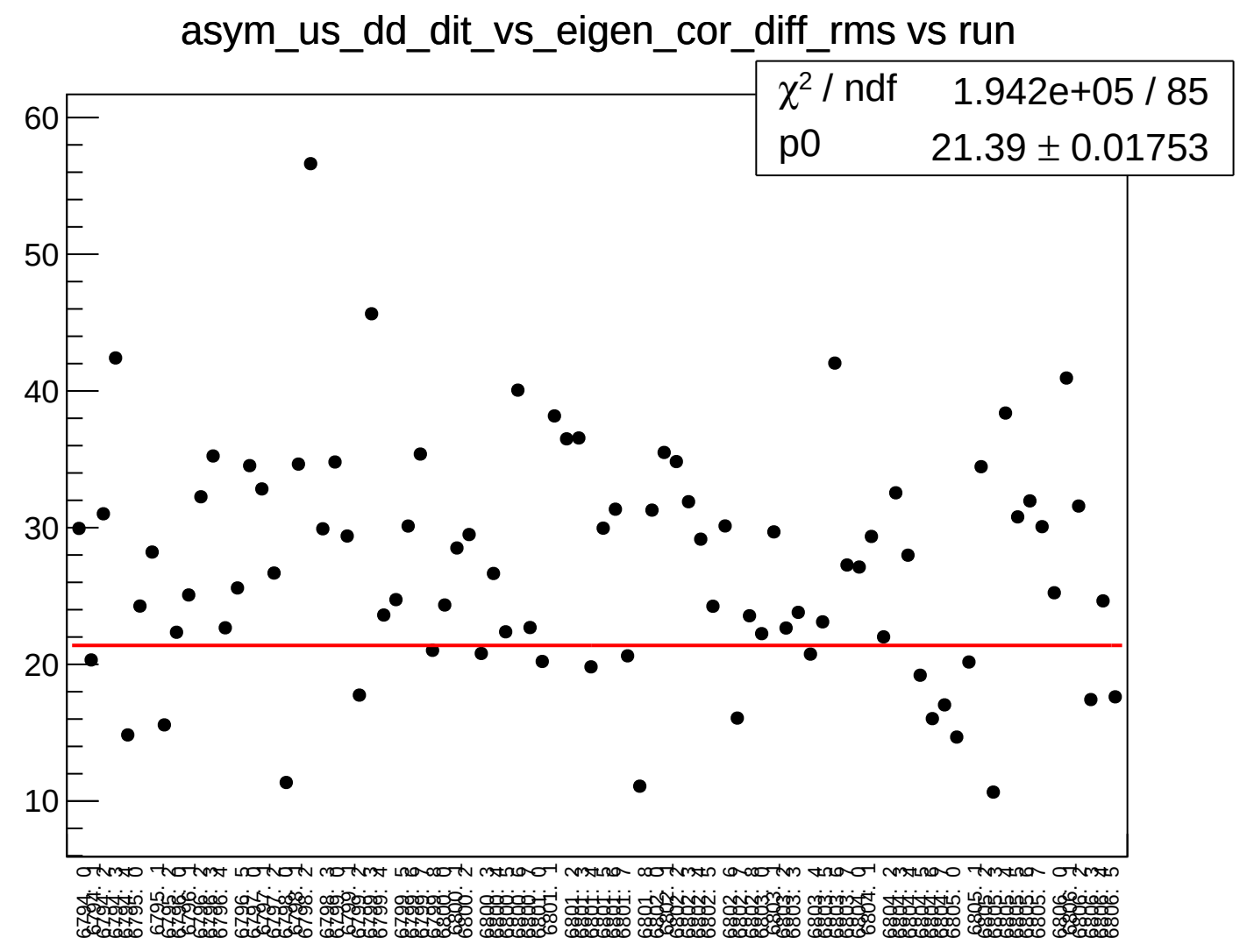

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.38 / 85
p0 −0.04345 ± 0.02479
pull
Entries 86
Mean −0.671
Std Dev 0

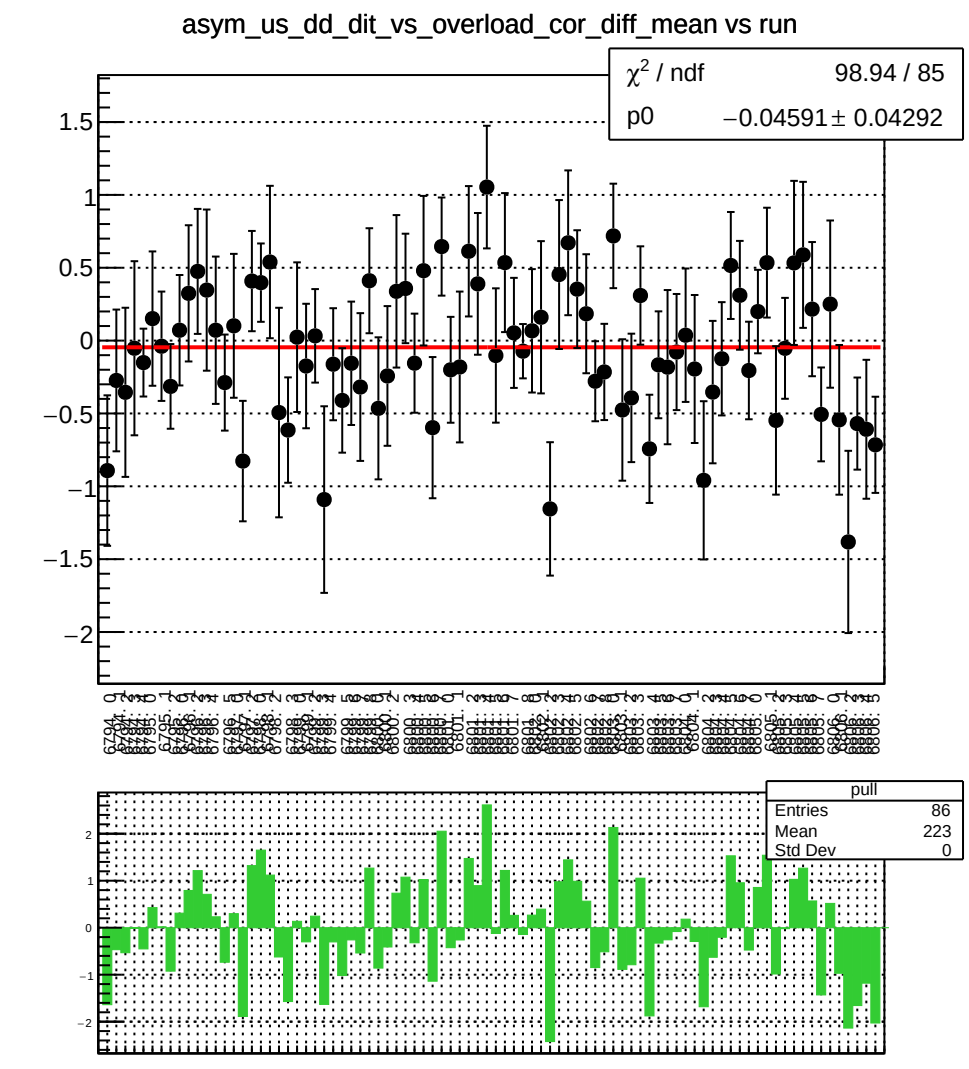

pull1D
Entries 86
Mean −0.0679
Std Dev 1.045

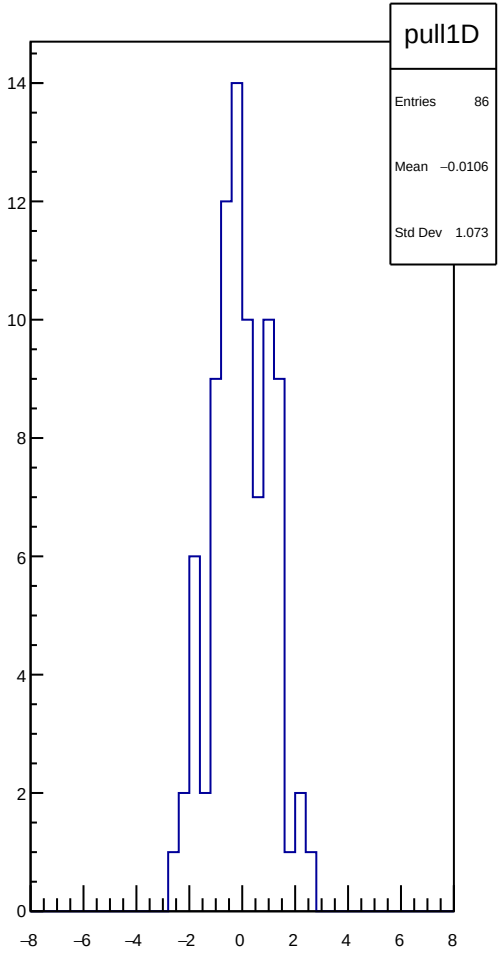

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.942e+05 / 85
p0 21.39 ± 0.01753
60
50
40
30
20
10

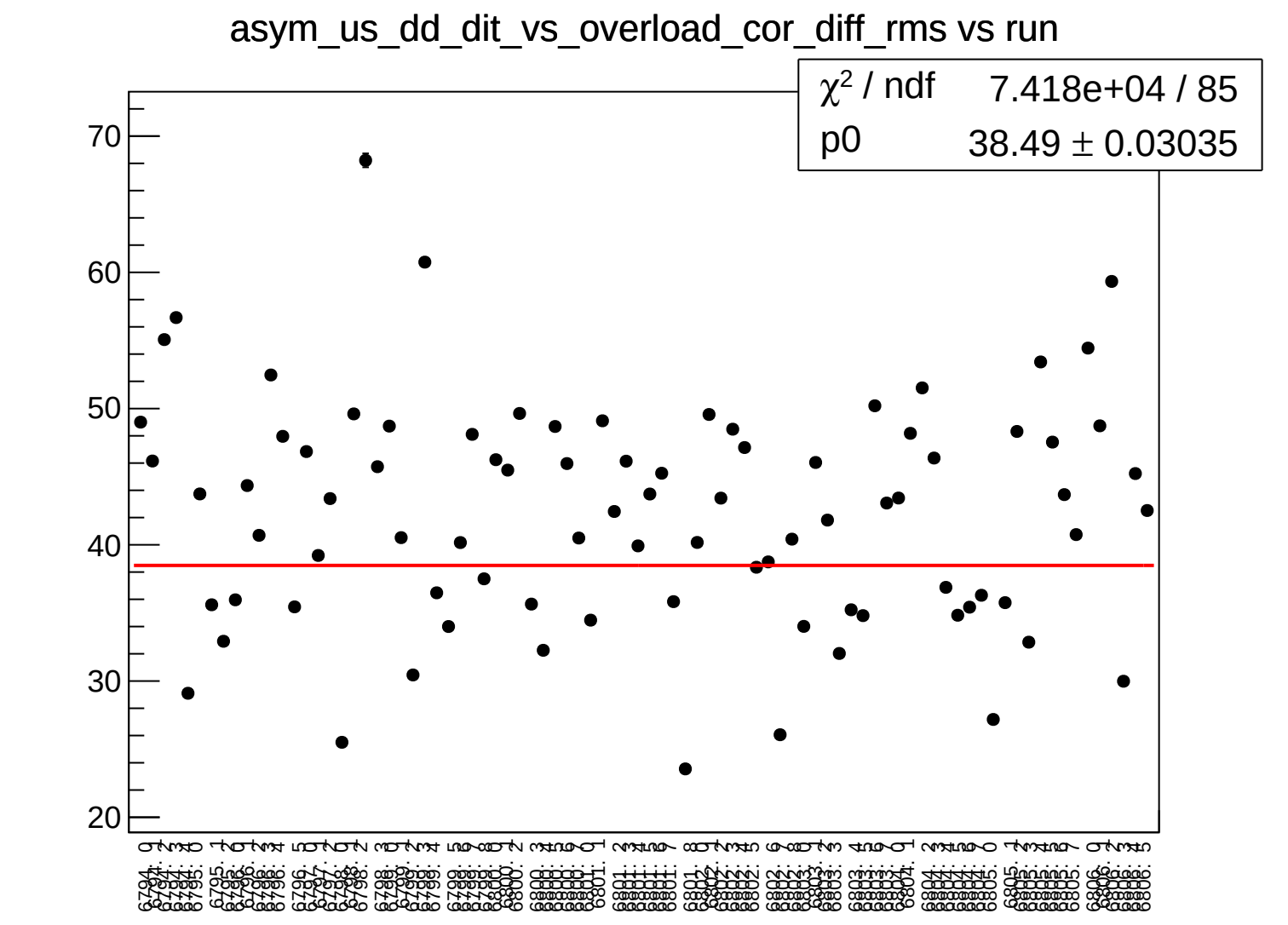

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.38 / 85
p0 −0.04345 ± 0.02479
pull
Entries 86
Mean −0.671
Std Dev 0

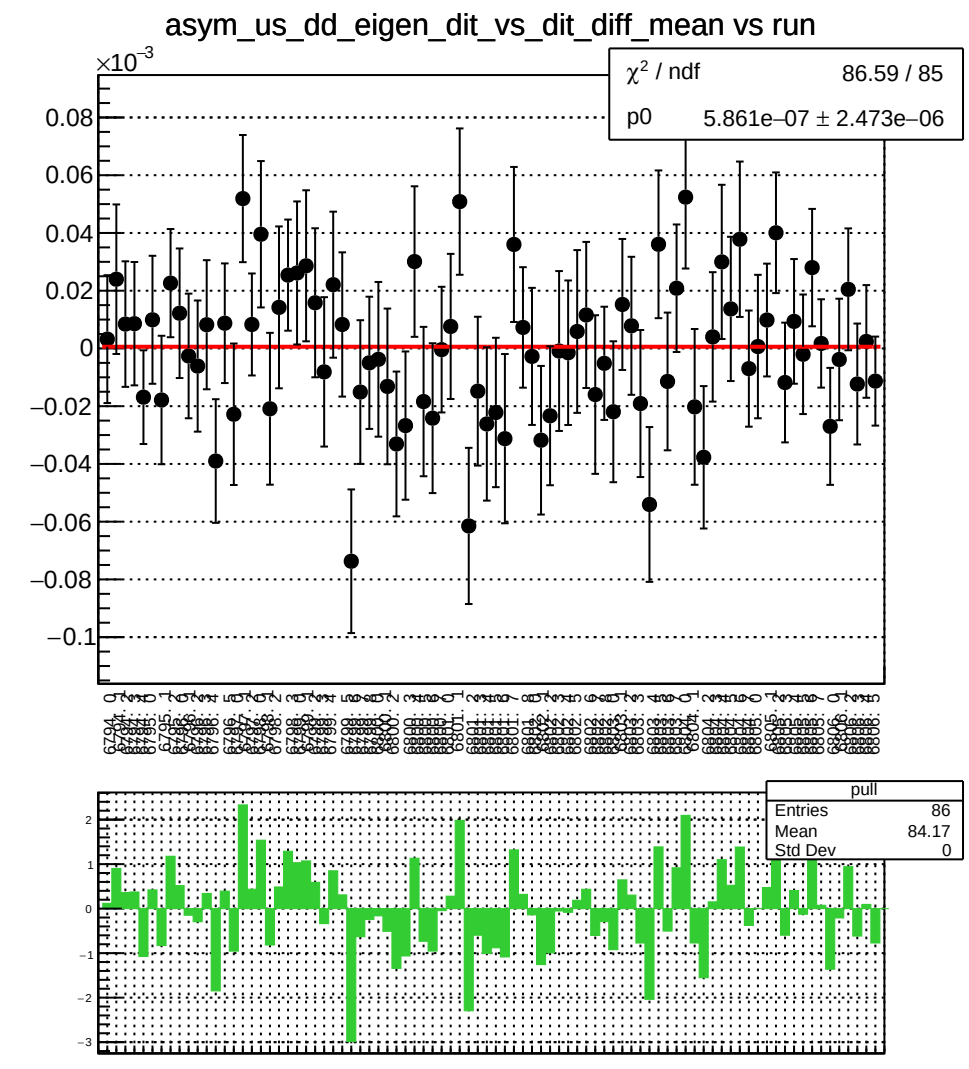

pull1D
Entries 86
Mean −0.0679
Std Dev 1.045

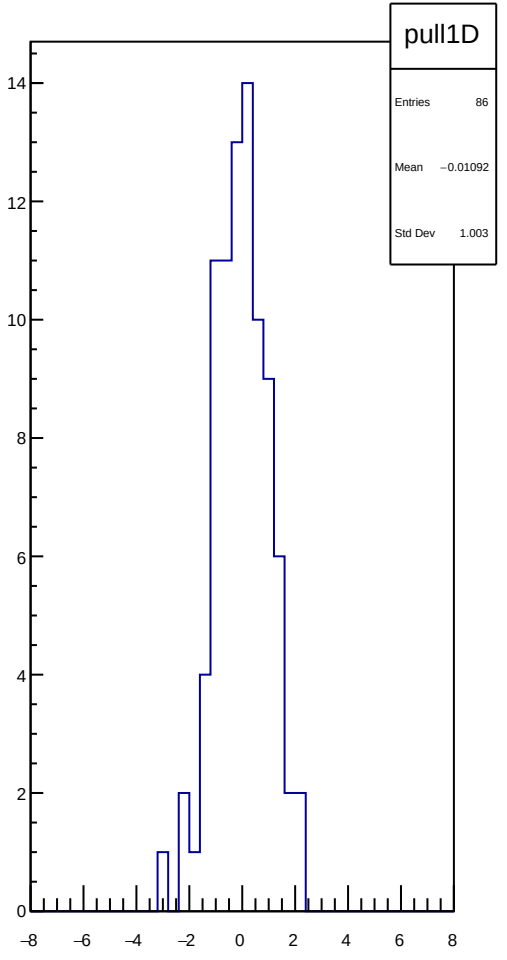

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 85
p0 21.39 ± 0.01753
60
50
40
30
20
10

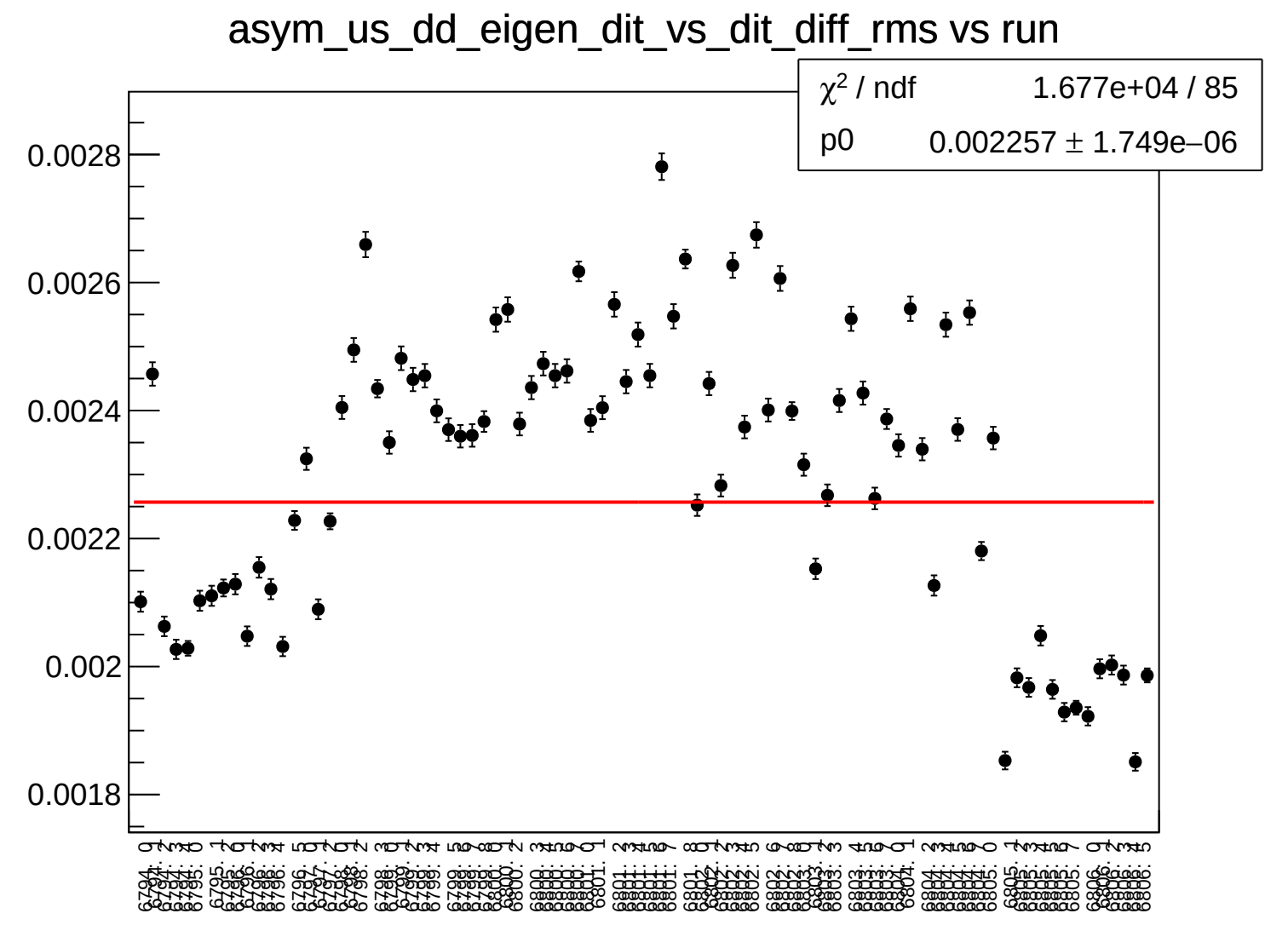

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.94 / 85
p0 −0.04591 ± 0.04292
pull
Entries 86
Mean 223
Std Dev 0

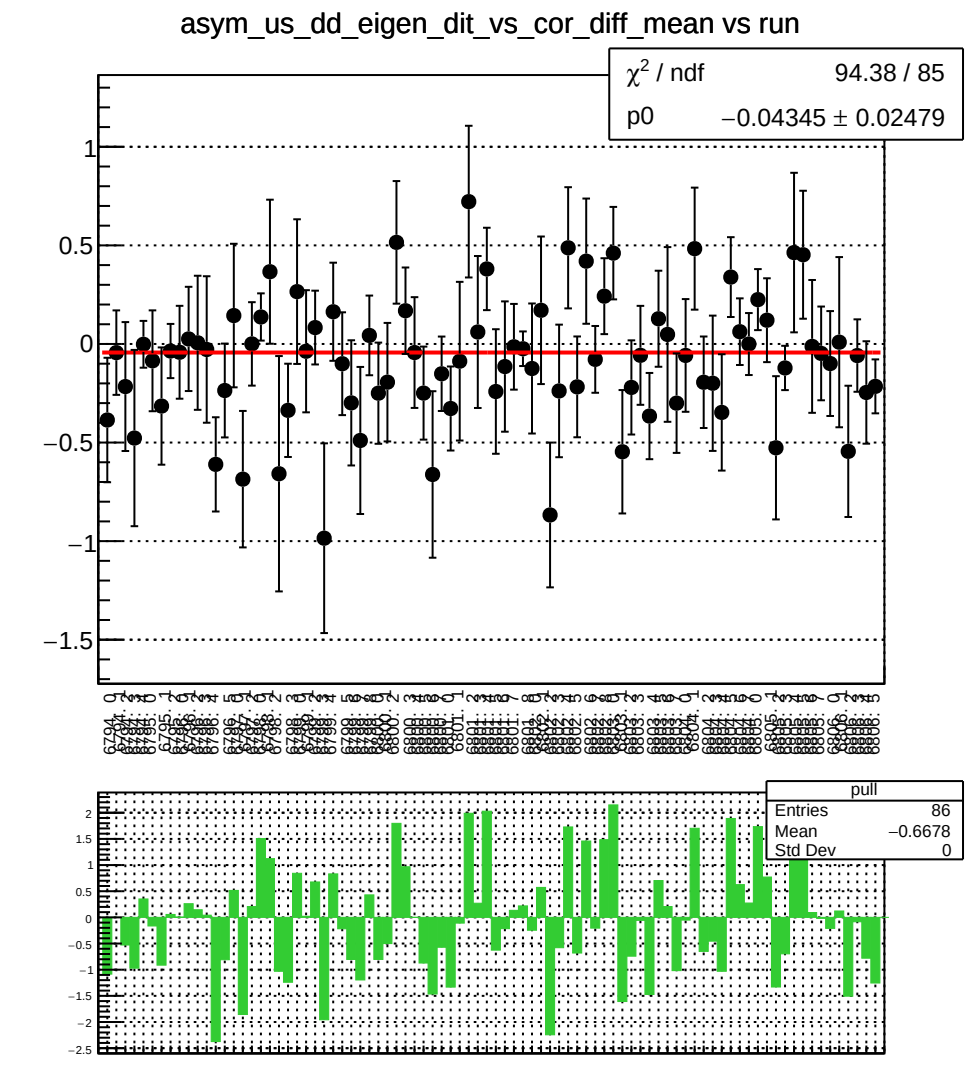

pull1D
Entries 86
Mean −0.0106
Std Dev 1.073

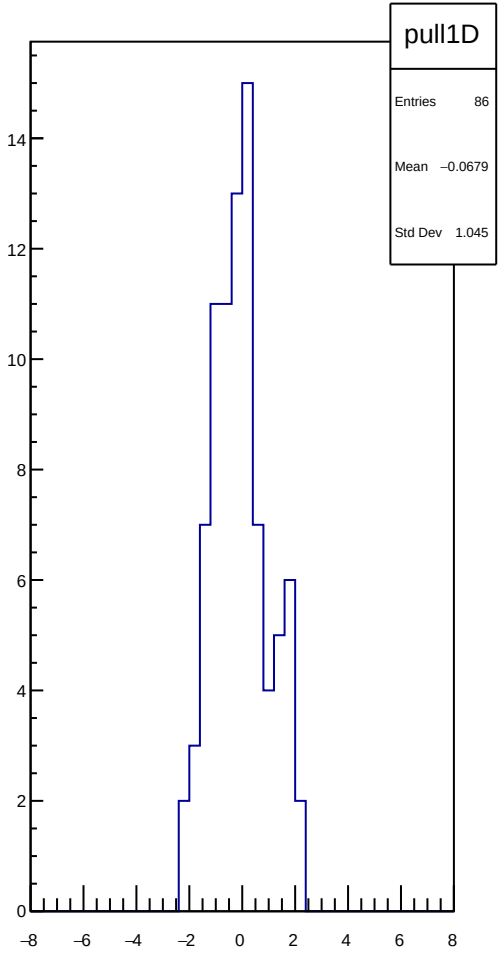

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 85
p0 38.49 ± 0.03035
70
60
50
40
30
20

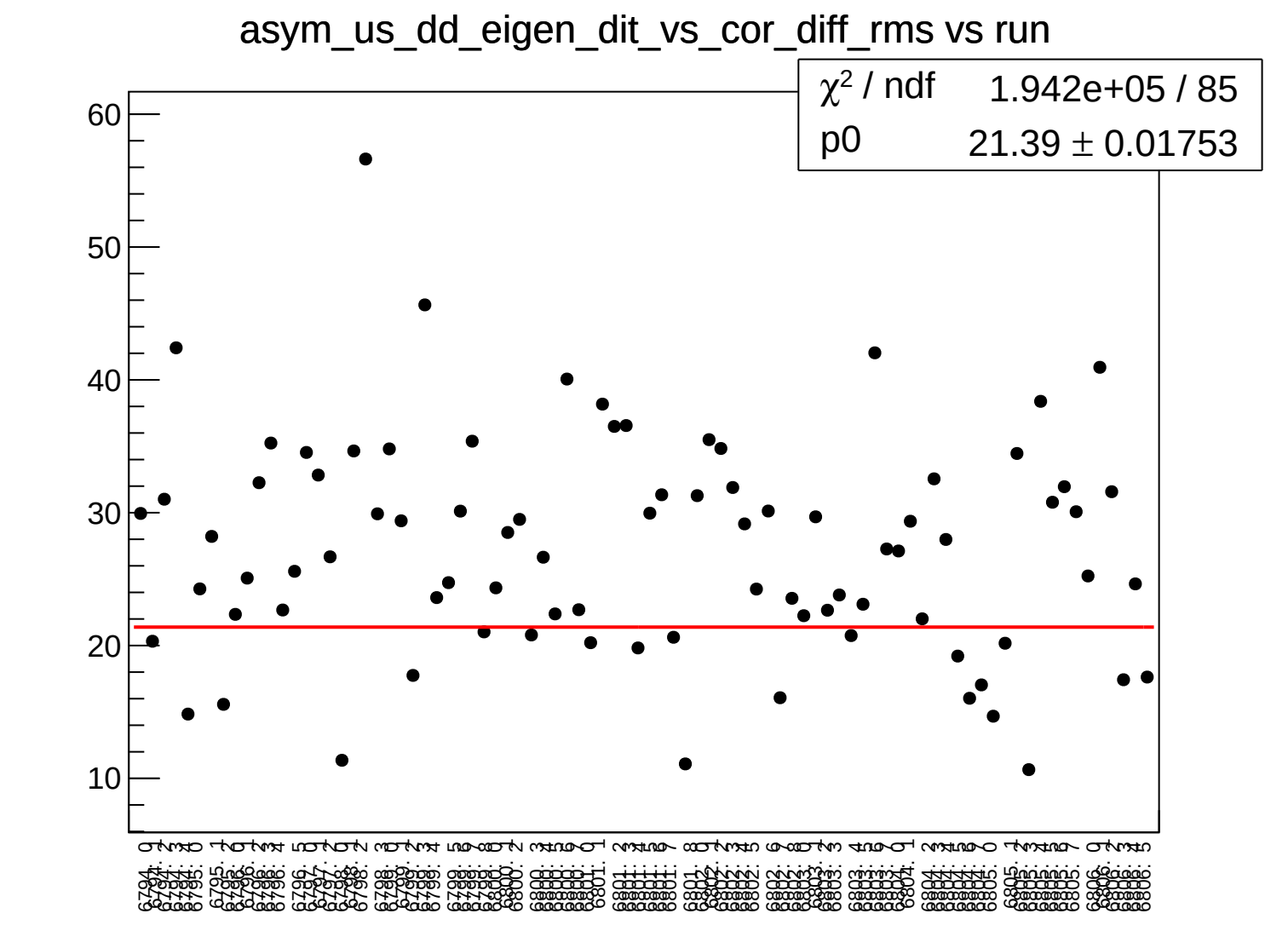

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.59 / 85
p0 5.861e−07 ± 2.473e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 86
Mean 84.17
Std Dev 0
2
1
0
−1
−2
−3

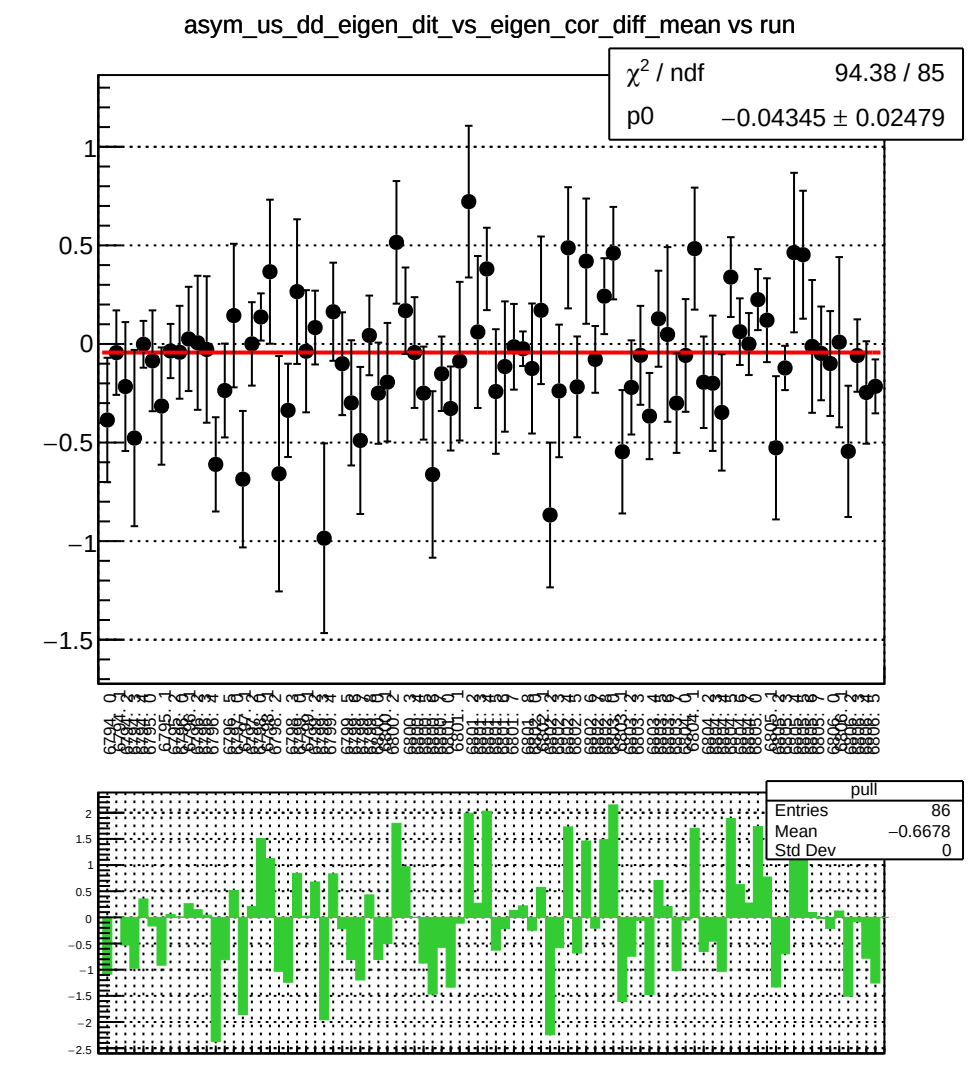

pull1D
Entries 86
Mean −0.01092
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

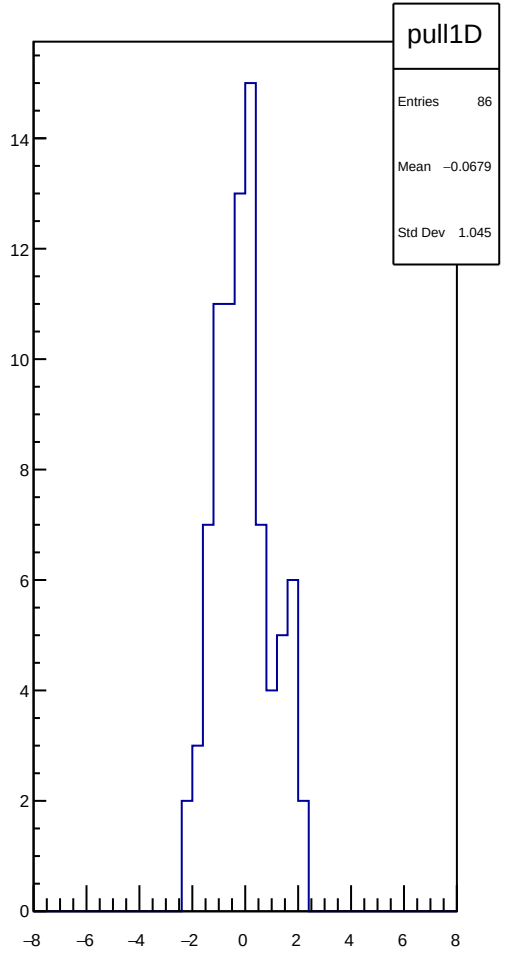

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.677e+04 / 85
p0 0.002257 ± 1.749e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

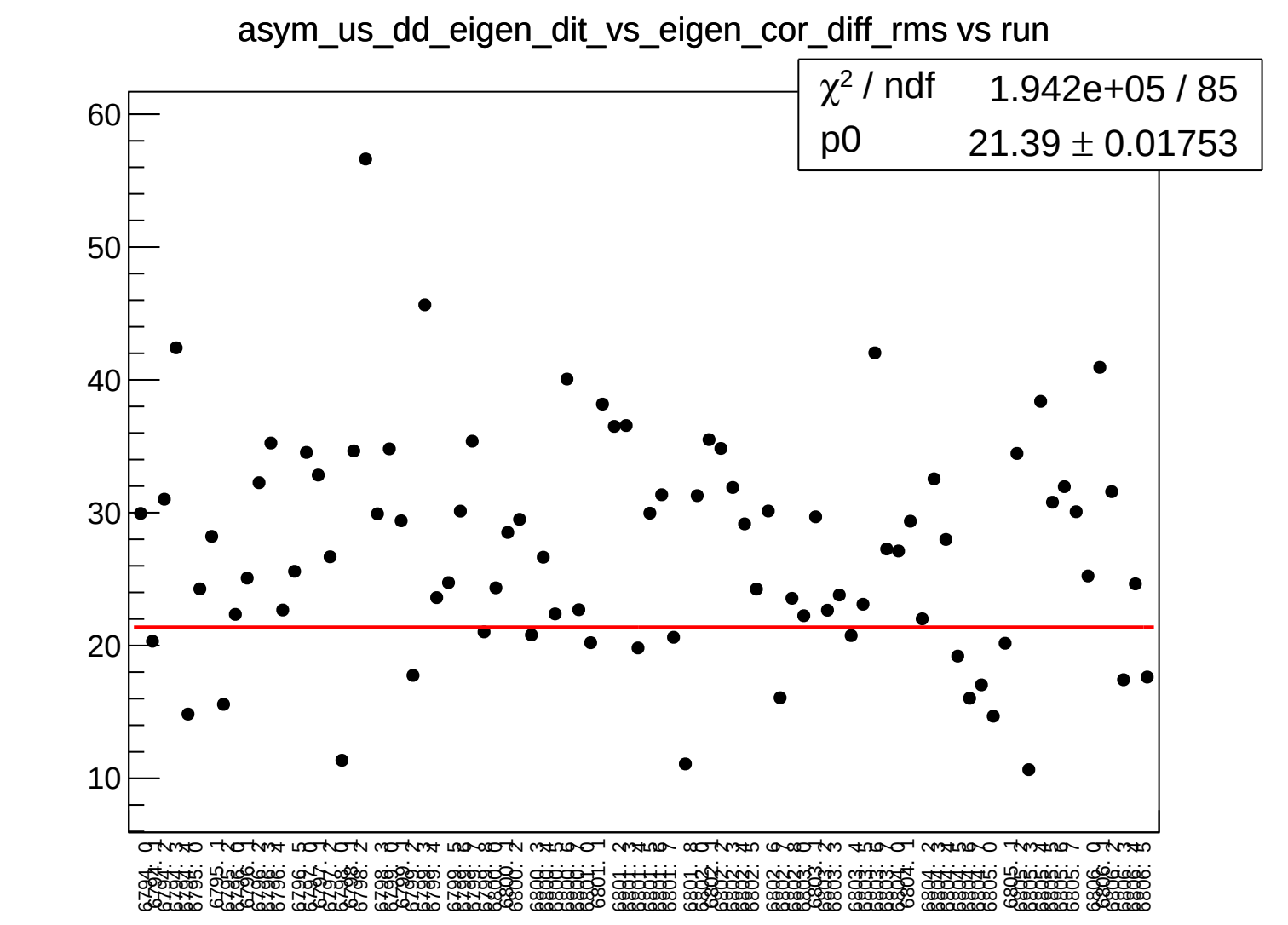

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.38 / 85
p0 −0.04345 ± 0.02479
pull
Entries 86
Mean −0.6678
Std Dev 0

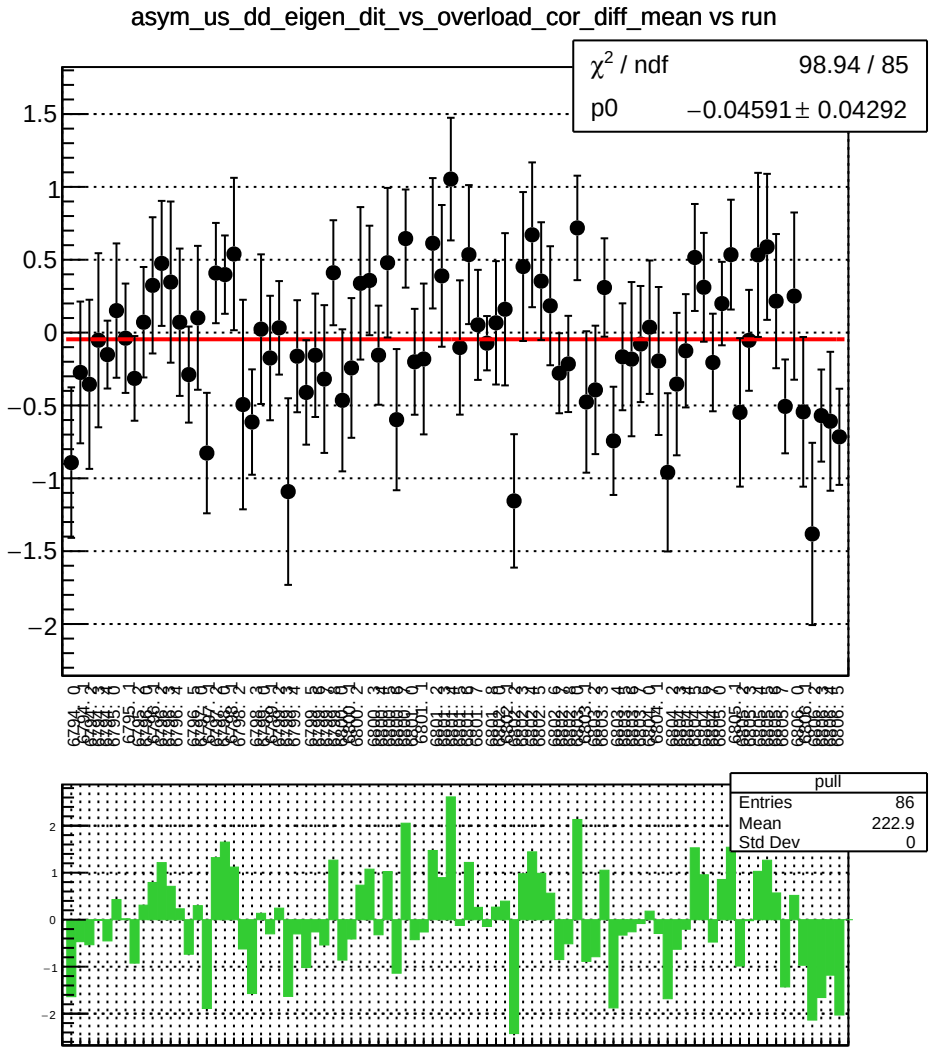

pull1D
Entries 86
Mean −0.0679
Std Dev 1.045

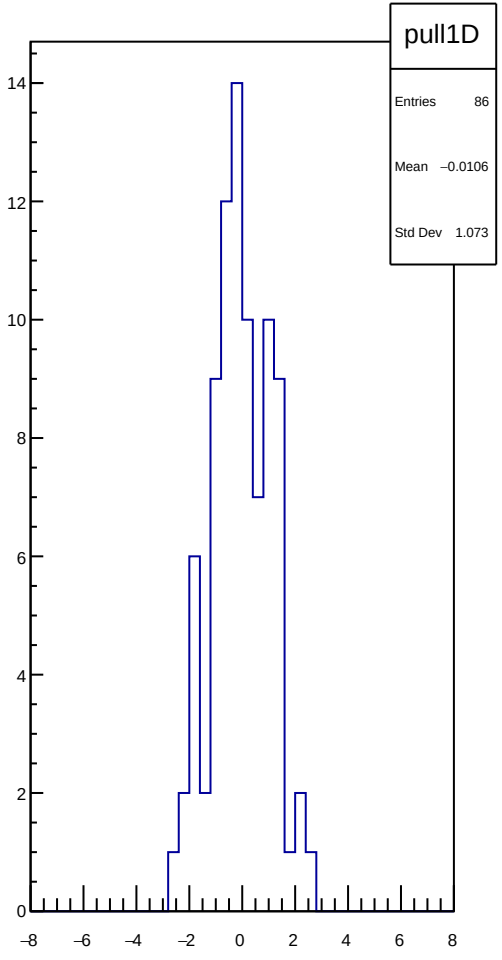

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 85
p0 21.39 ± 0.01753
60
50
40
30
20
10

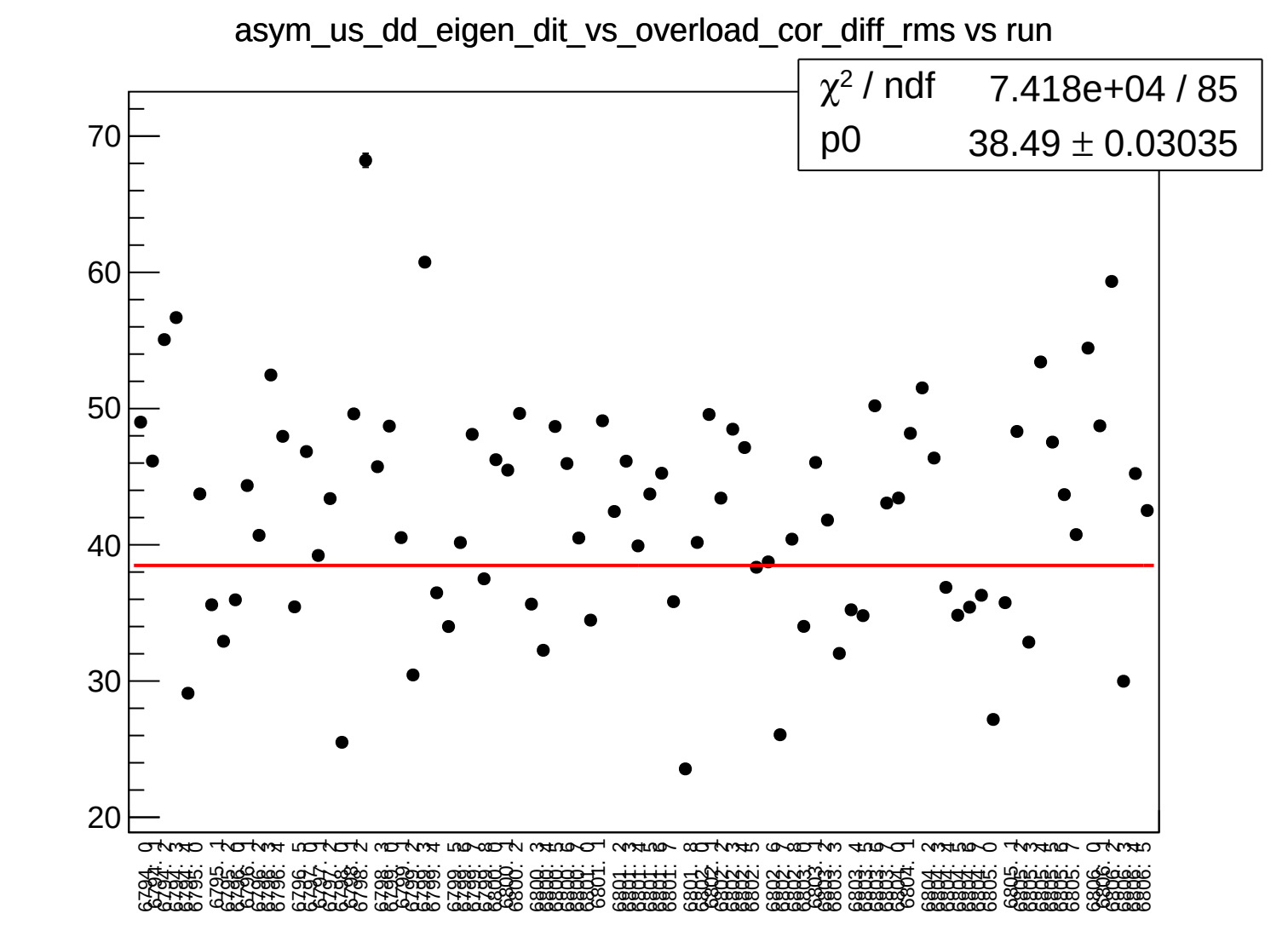

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.38 / 85
p0 −0.04345 ± 0.02479
pull
Entries 86
Mean −0.6678
Std Dev 0

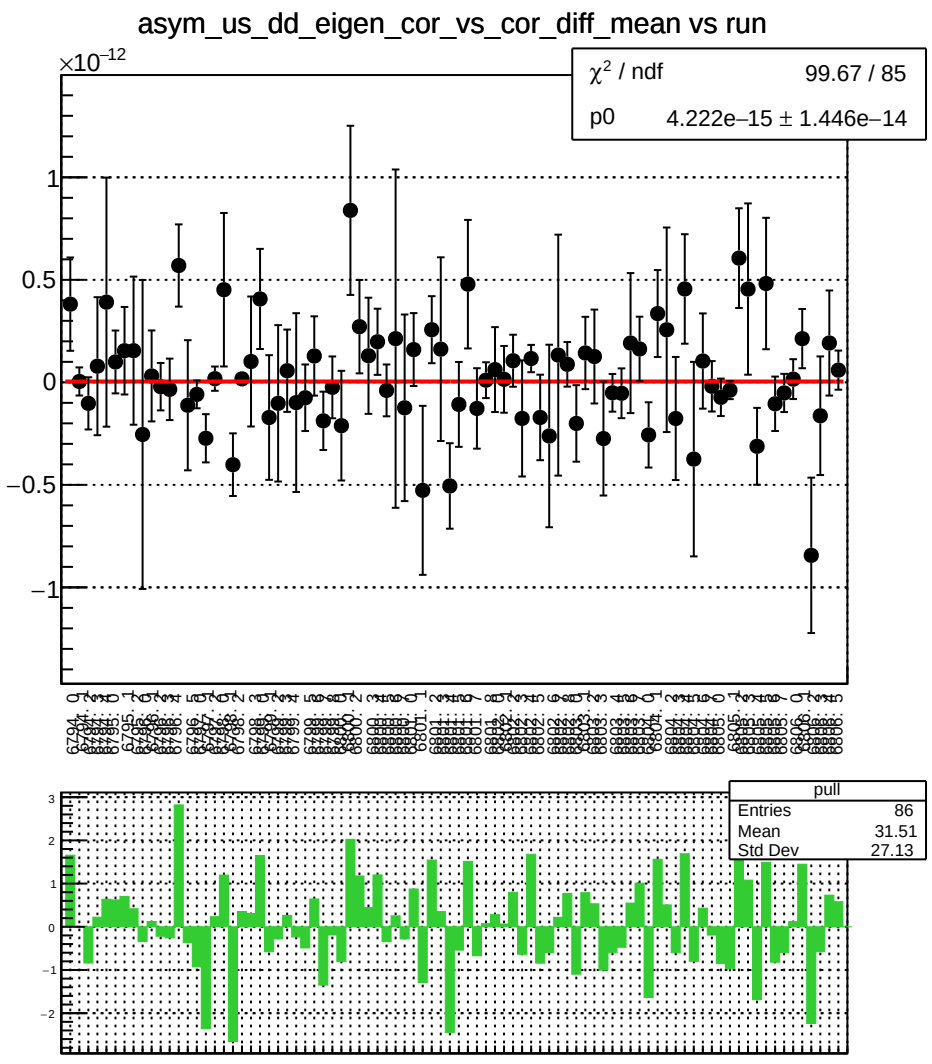

pull1D
Entries 86
Mean −0.0679
Std Dev 1.045

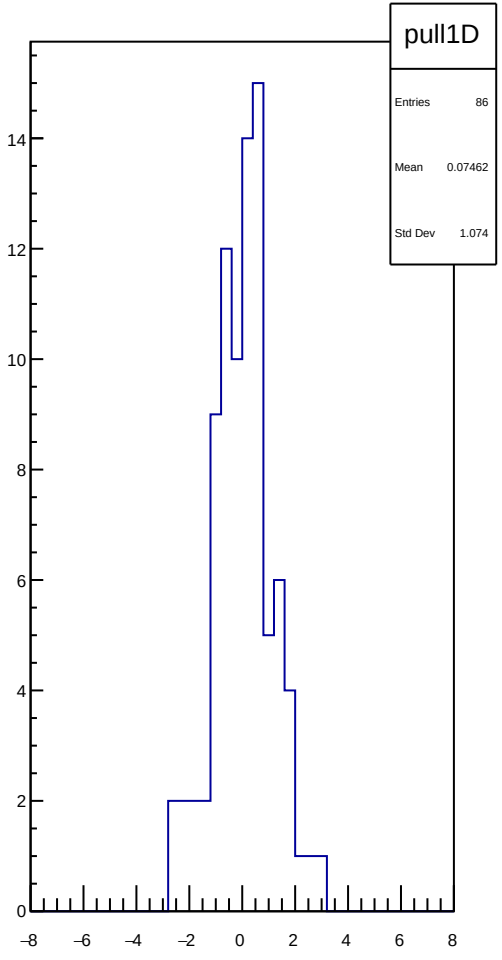

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.942e+05 / 85
p0 21.39 ± 0.01753
60
50
40
30
20
10

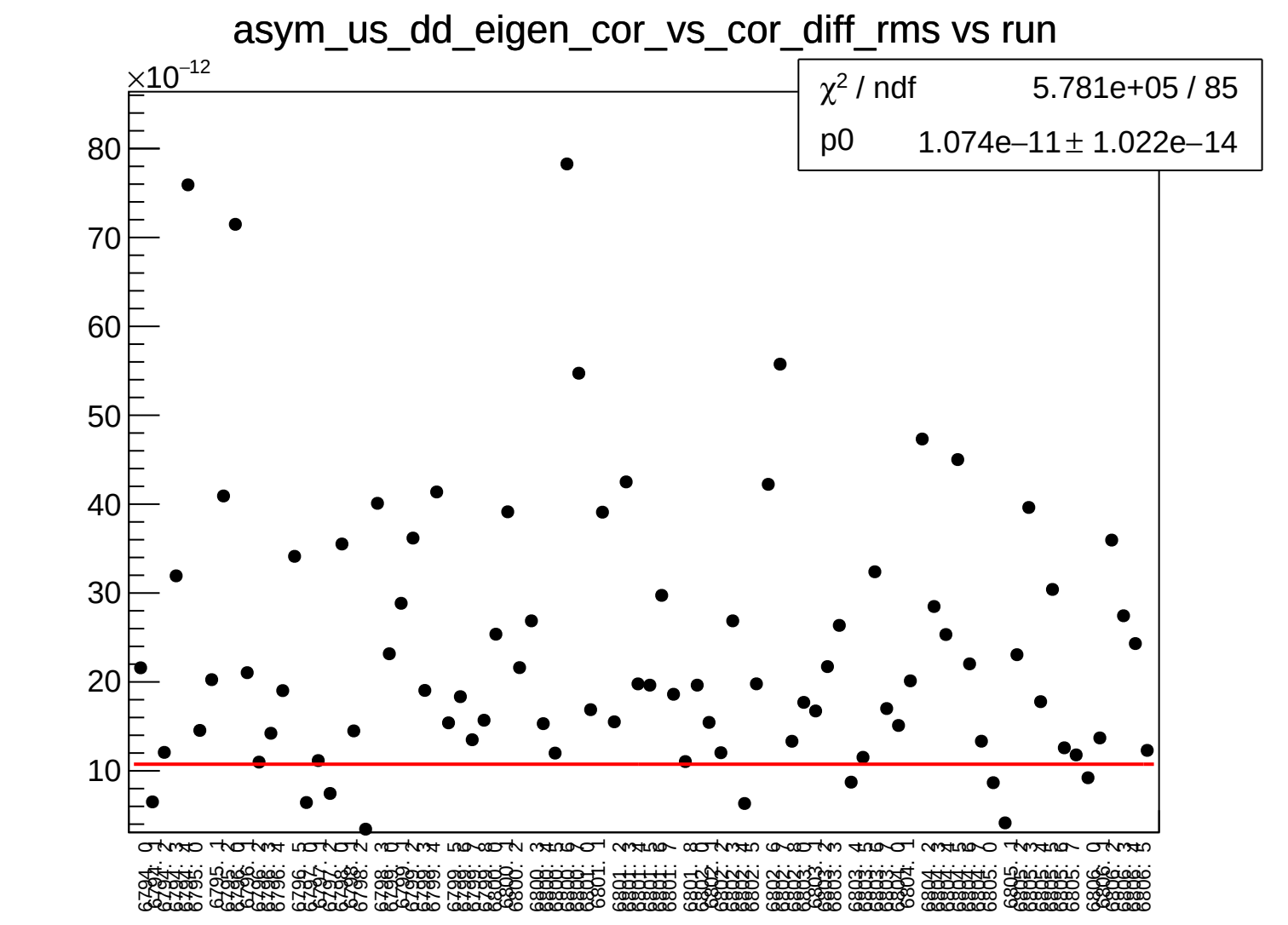

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 98.94 / 85
p0 −0.04591 ± 0.04292
pull
Entries 86
Mean 222.9
Std Dev 0

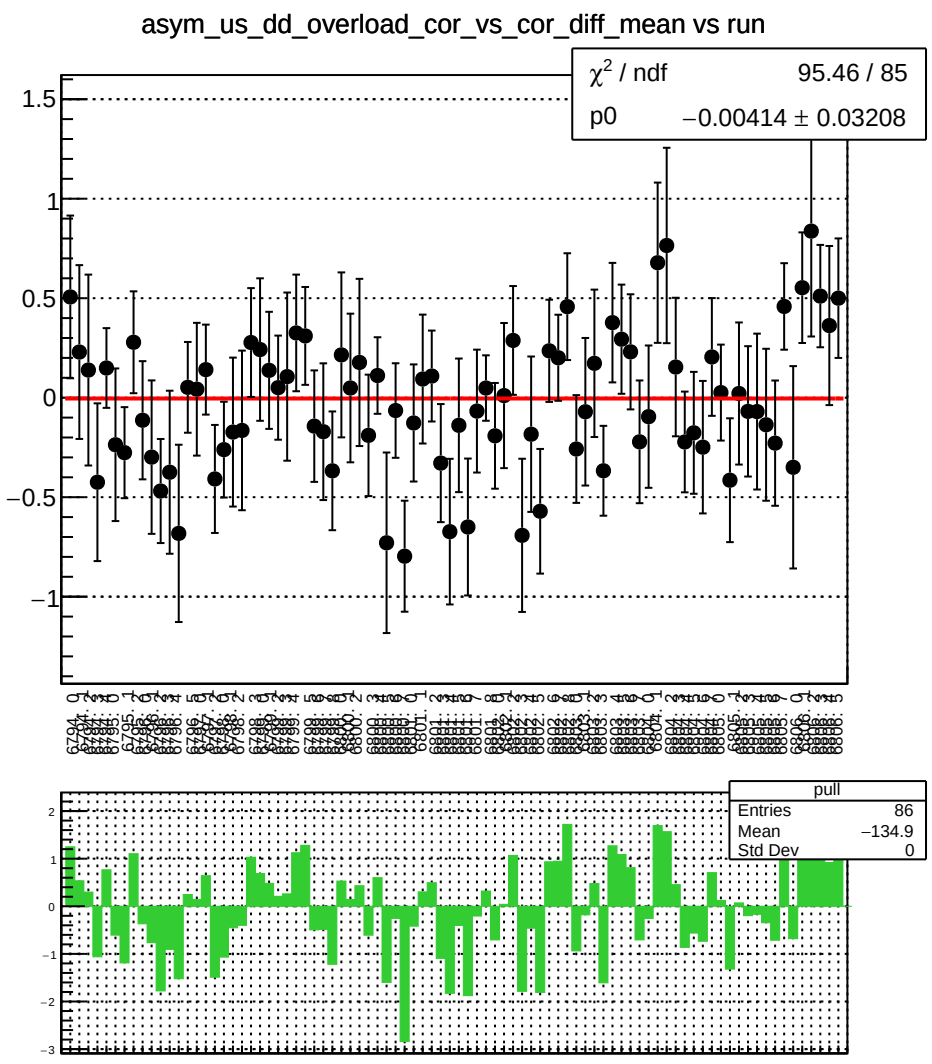

pull1D
Entries 86
Mean −0.0106
Std Dev 1.073

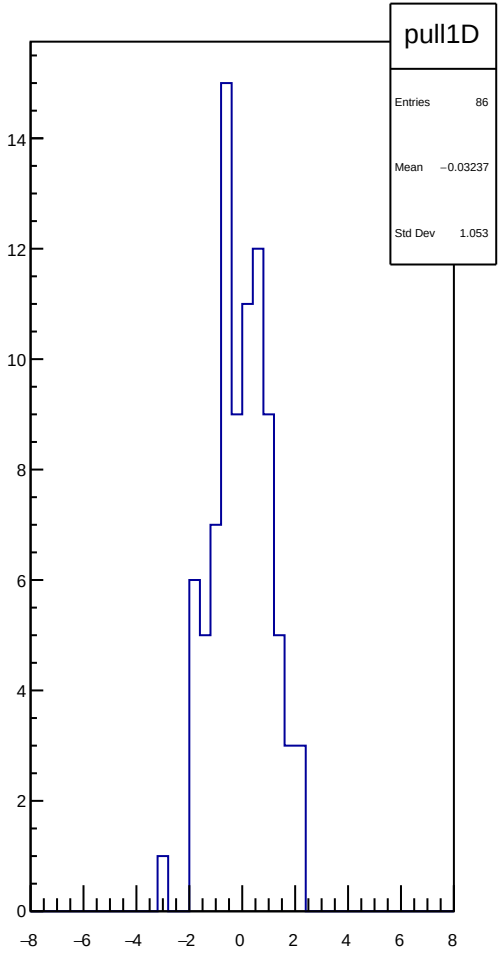

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.418e+04 / 85
p0 38.49 ± 0.03035
70
60
50
40
30
20

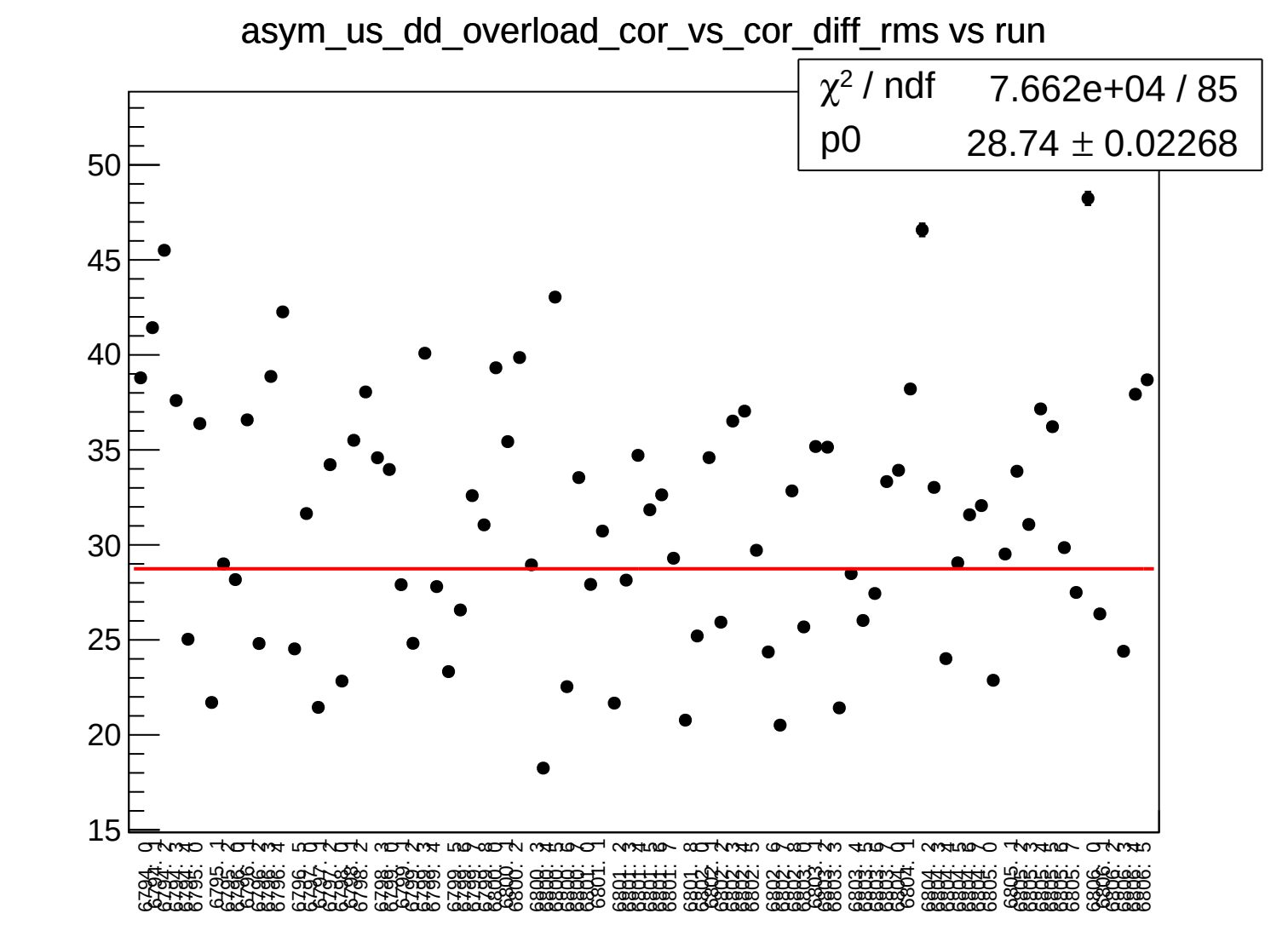

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.67 / 85
p0 4.222e−15 ± 1.446e−14
pull
Entries 86
Mean 31.51
Std Dev 27.13

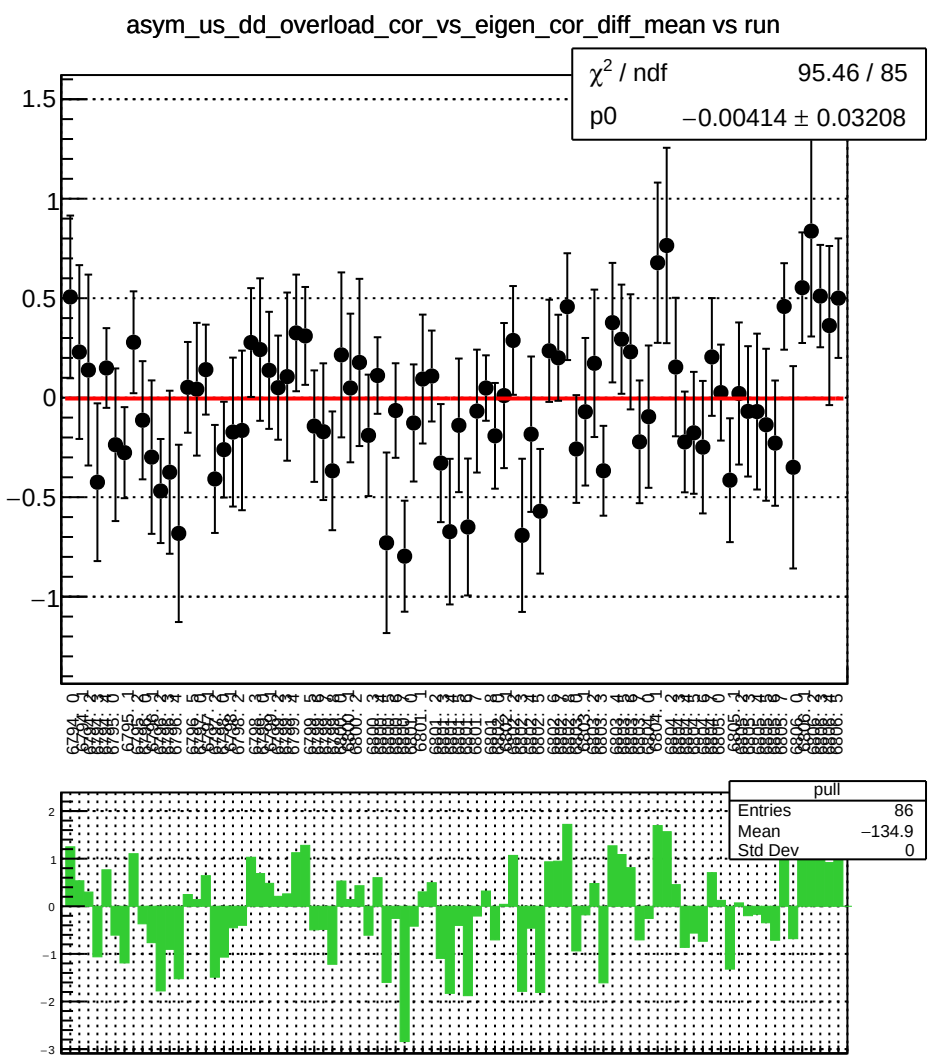

pull1D
Entries 86
Mean 0.07462
Std Dev 1.074

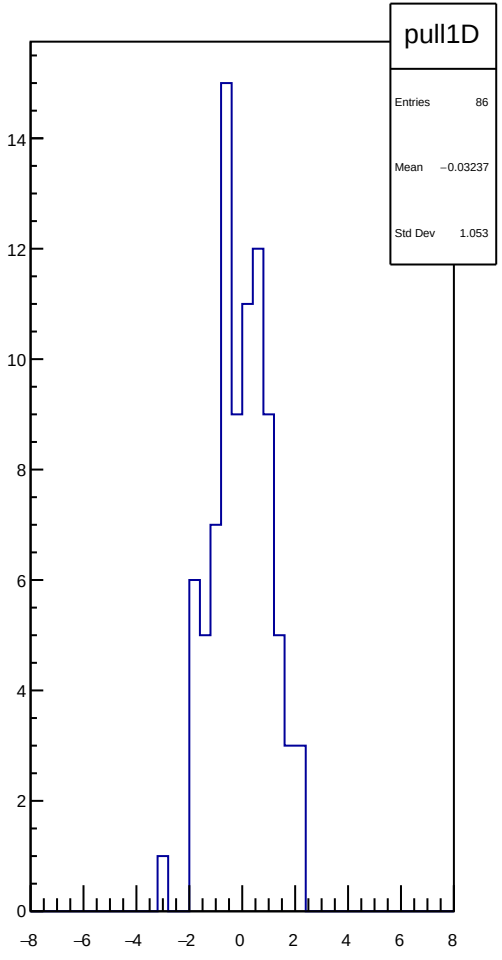

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.781e+05 / 85
p0 1.074e−11 ± 1.022e−14
80
70
60
50
40
30
20
10

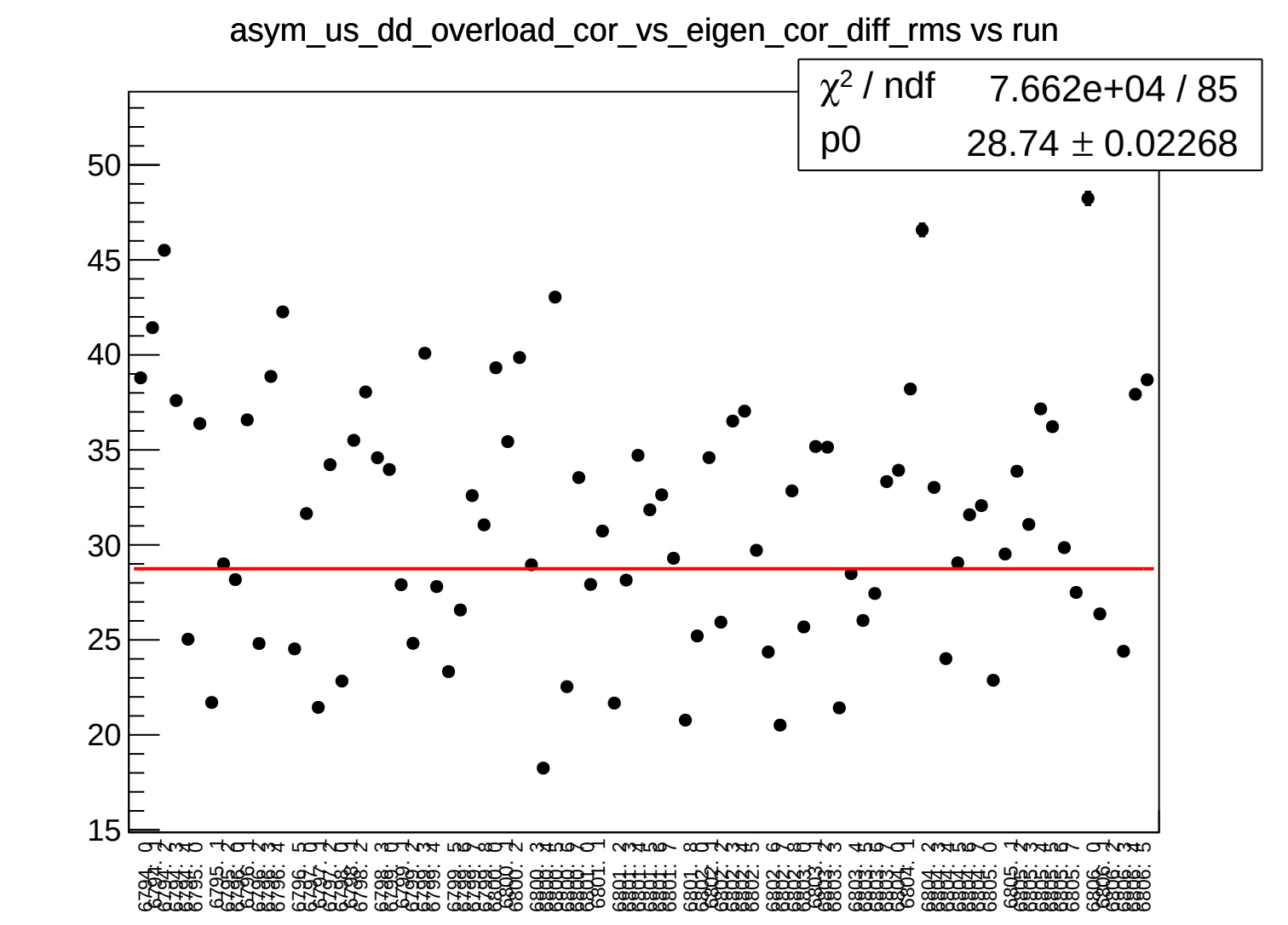

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 95.46 / 85
p0 −0.00414 ± 0.03208
pull
Entries 86
Mean −134.9
Std Dev 0

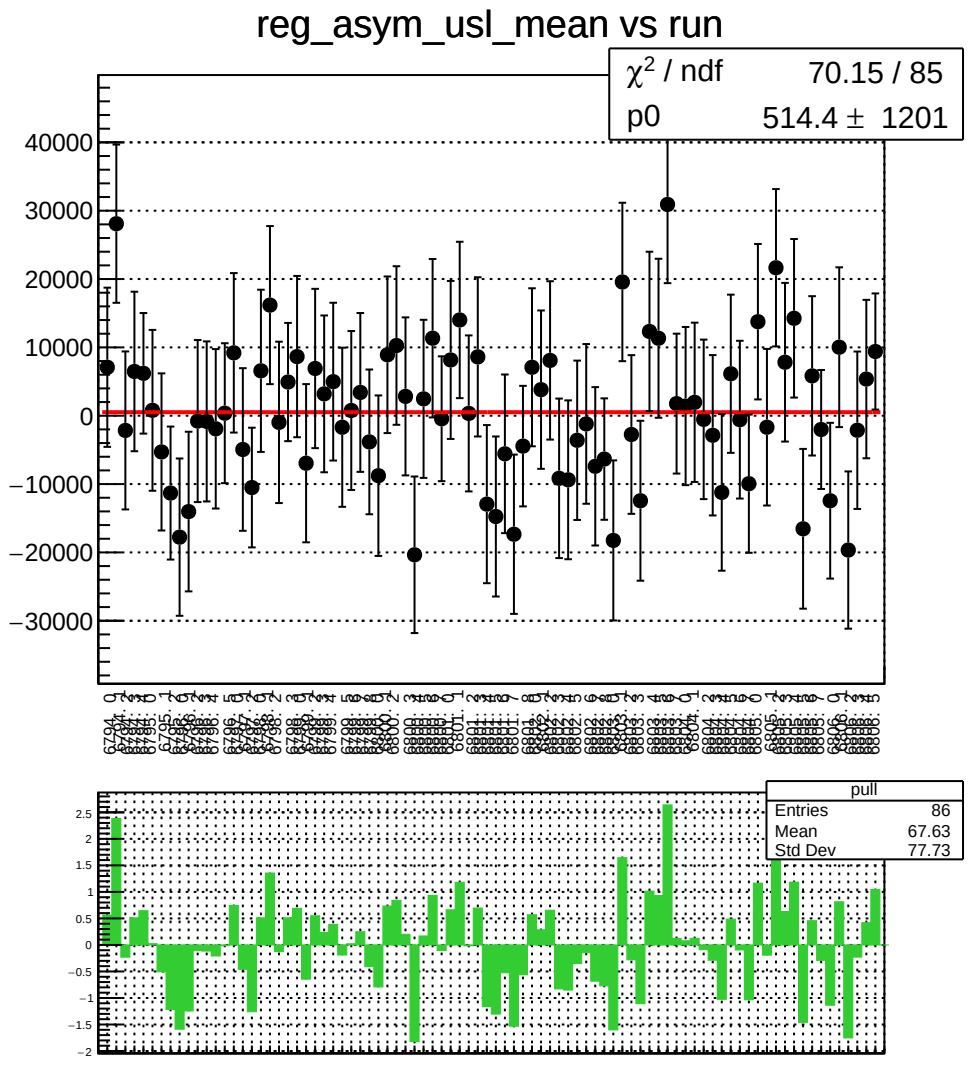

pull1D
Entries 86
Mean −0.03237
Std Dev 1.053

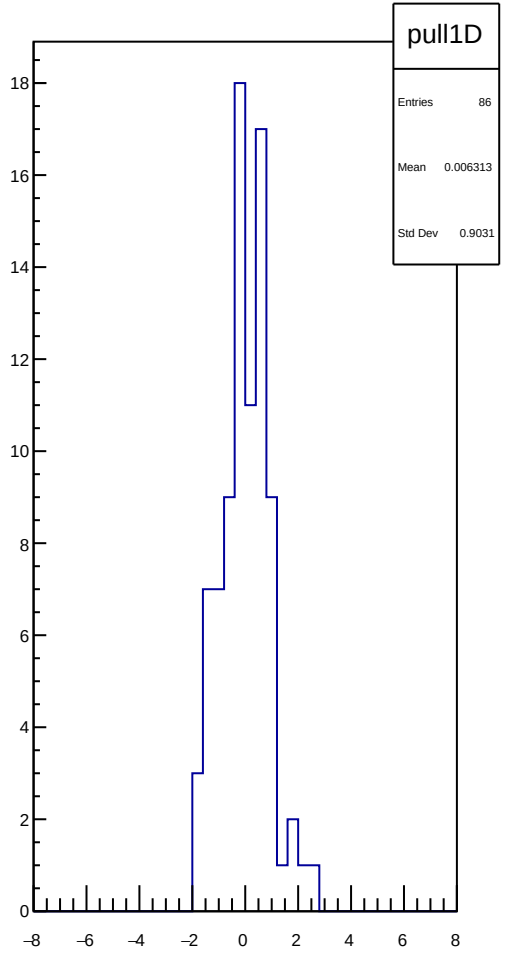

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 7.662e+04 / 85
p0 28.74 ± 0.02268
50
45
40
35
30
25
20
15

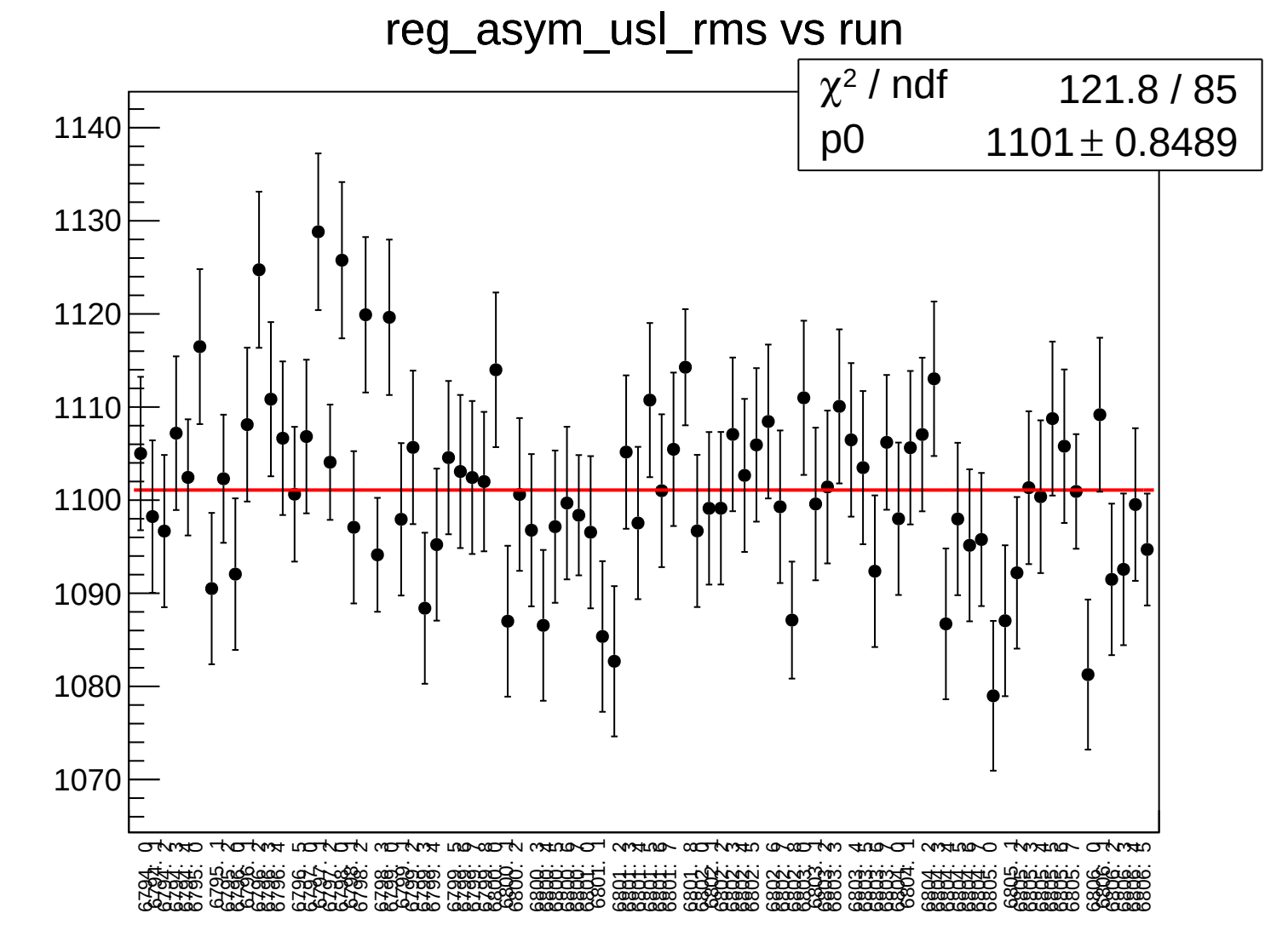

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.46 / 85
p0 −0.00414 ± 0.03208
pull
Entries 86
Mean −134.9
Std Dev 0

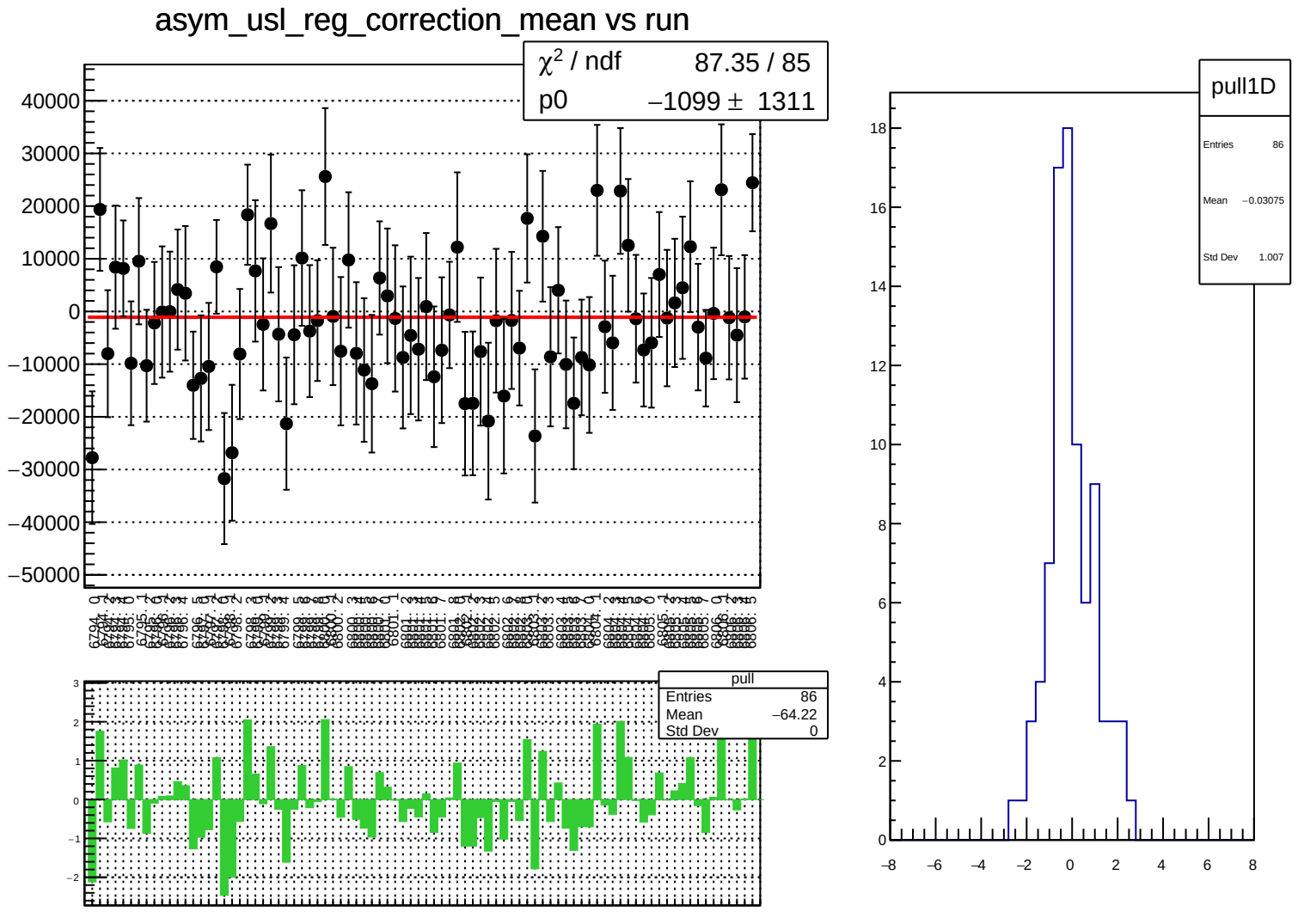

pull1D
Entries 86
Mean −0.03237
Std Dev 1.053

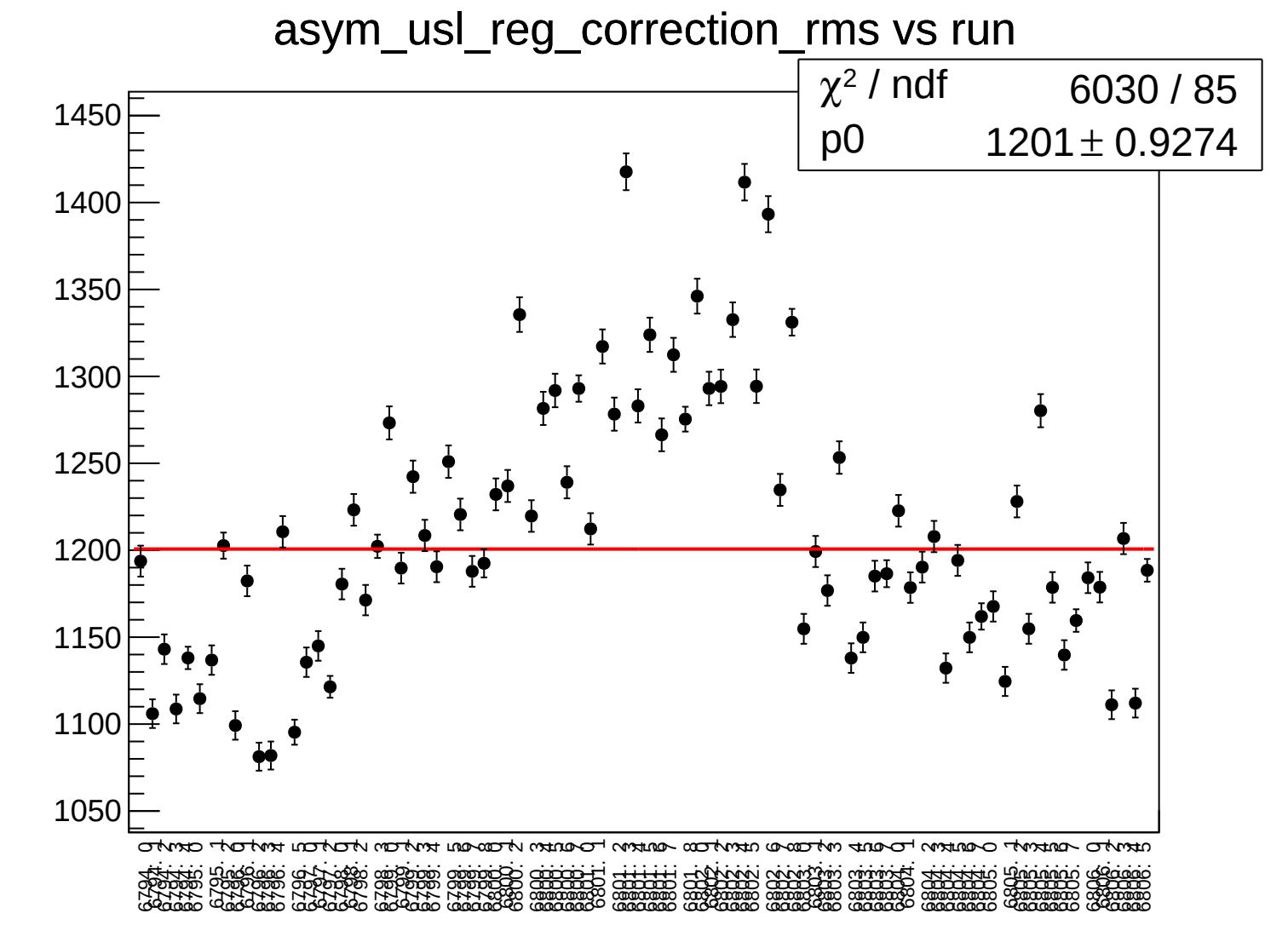

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.662e+04 / 85
p0 28.74 ± 0.02268
50
45
40
35
30
25
20
15

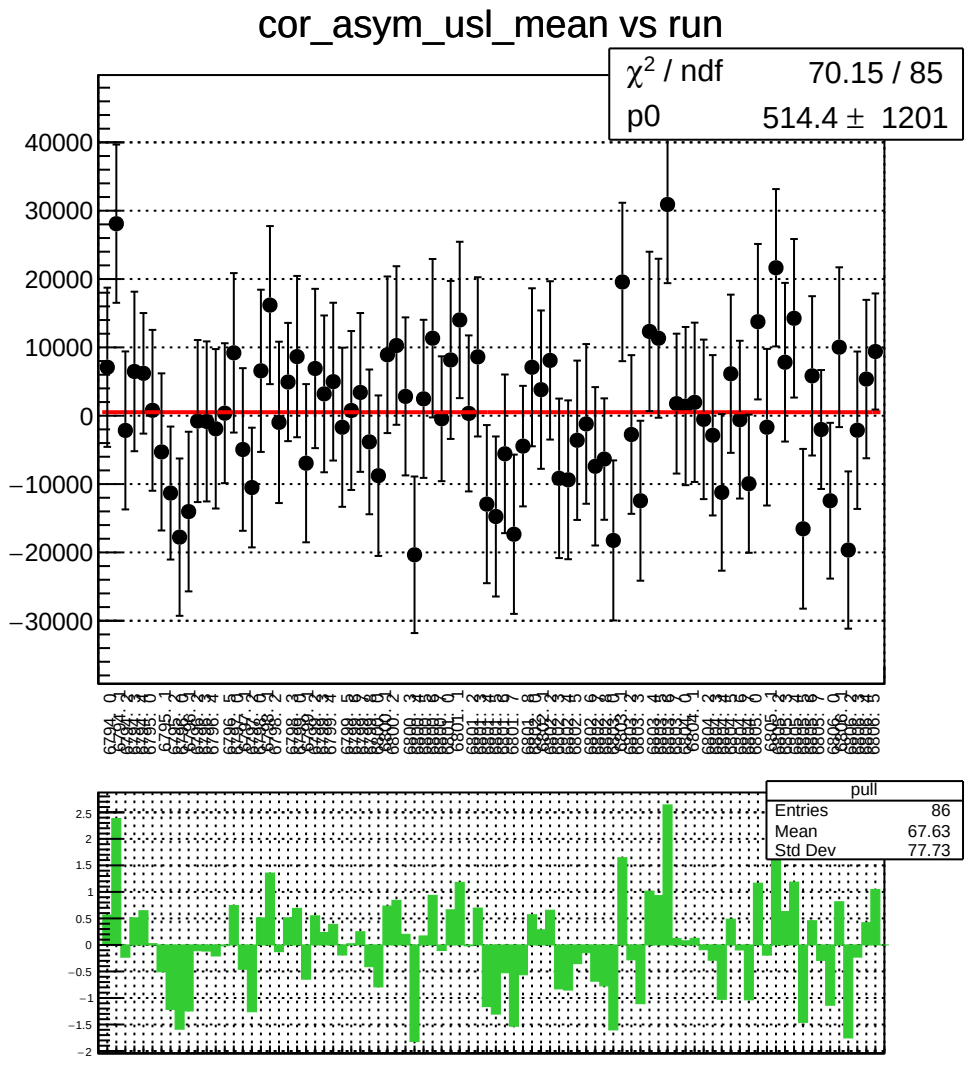

reg_asym_usl_mean vs run
χ² / ndf 70.15 / 85
p0 514.4 ± 1201
pull
Entries 86
Mean 67.63
Std Dev 77.73

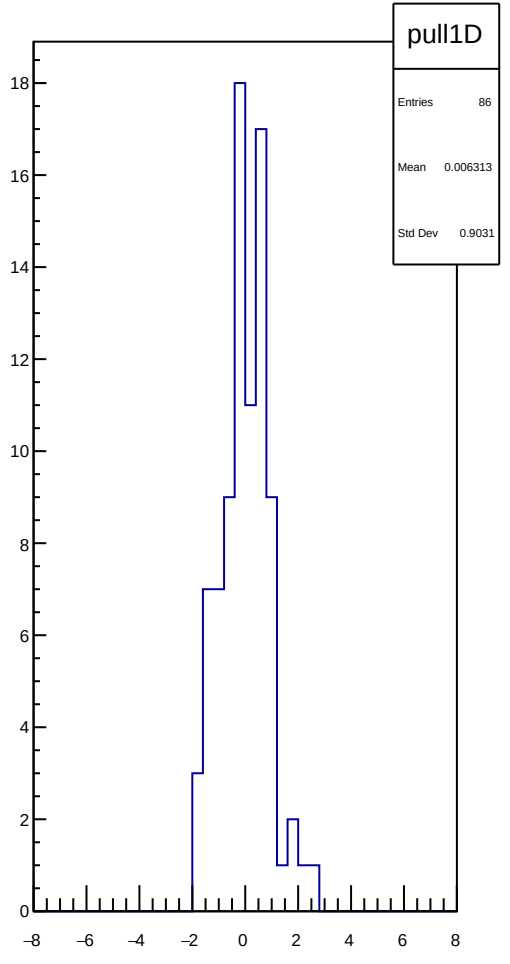

pull1D
Entries 86
Mean 0.006313
Std Dev 0.9031

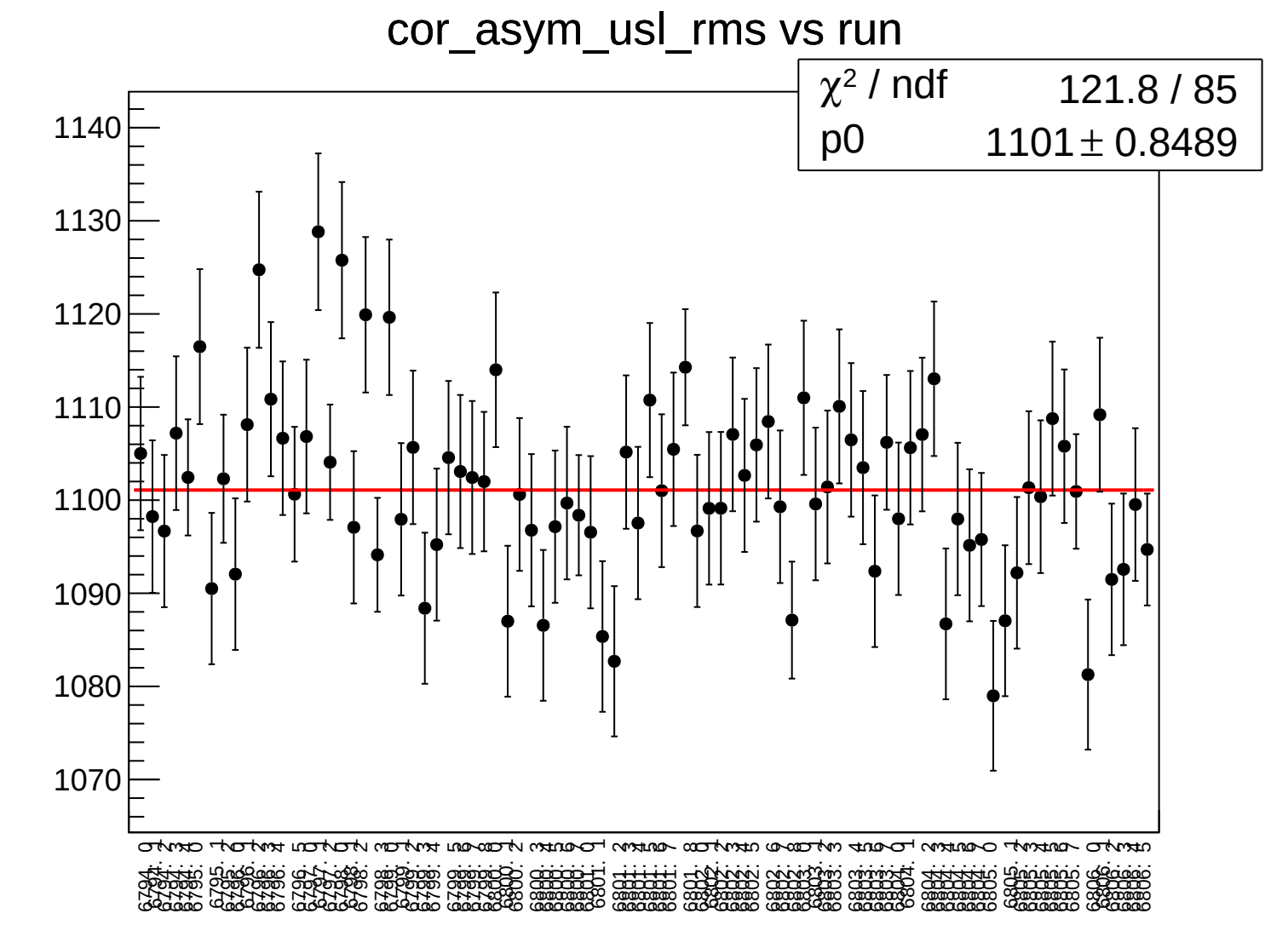

reg_asym_usl_rms vs run
χ² / ndf 121.8 / 85
p0 1101 ± 0.8489
1140
1130
1120
1110
1100
1090
1080
1070

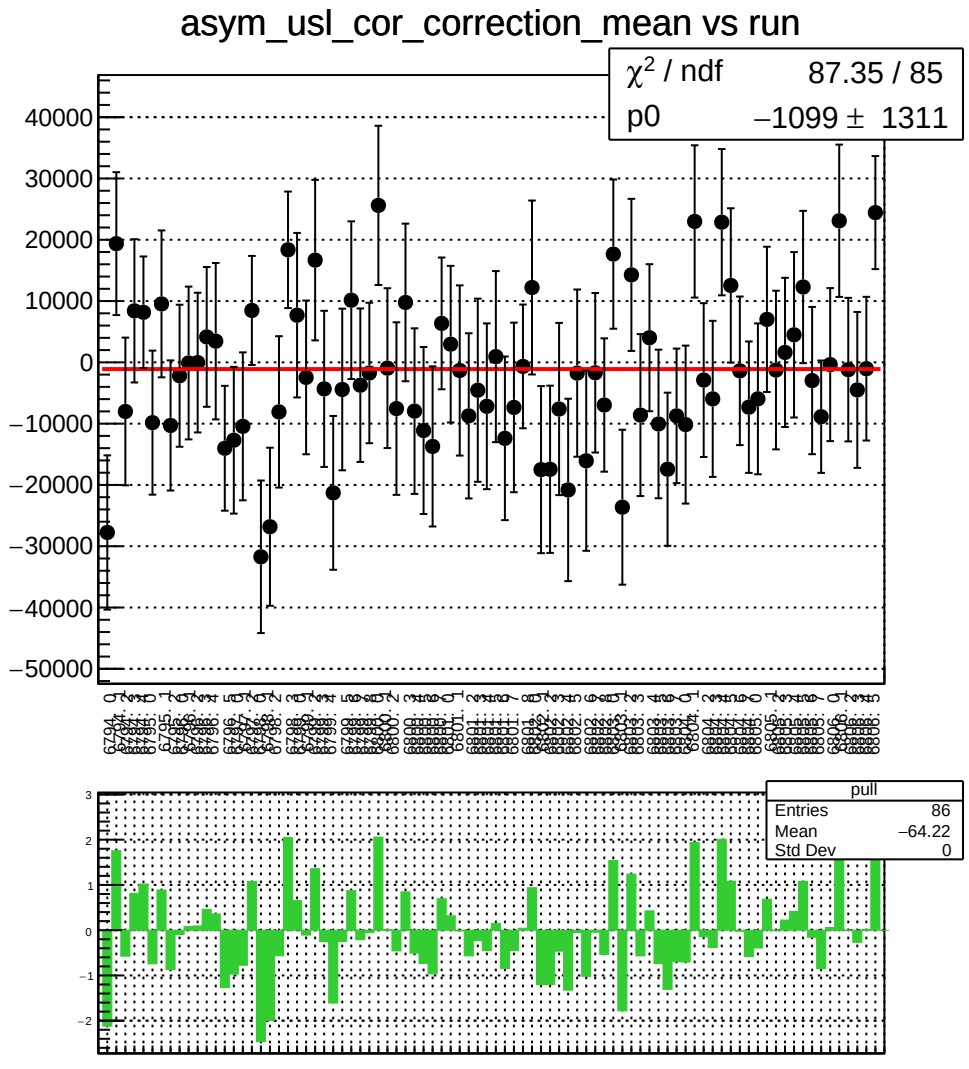

asym_usl_reg_correction_mean vs run
χ² / ndf 87.35 / 85
p0 −1099 ± 1311
pull
Entries 86
Mean −64.22
Std Dev 0
pull1D
Entries 86
Mean −0.03075
Std Dev 1.007

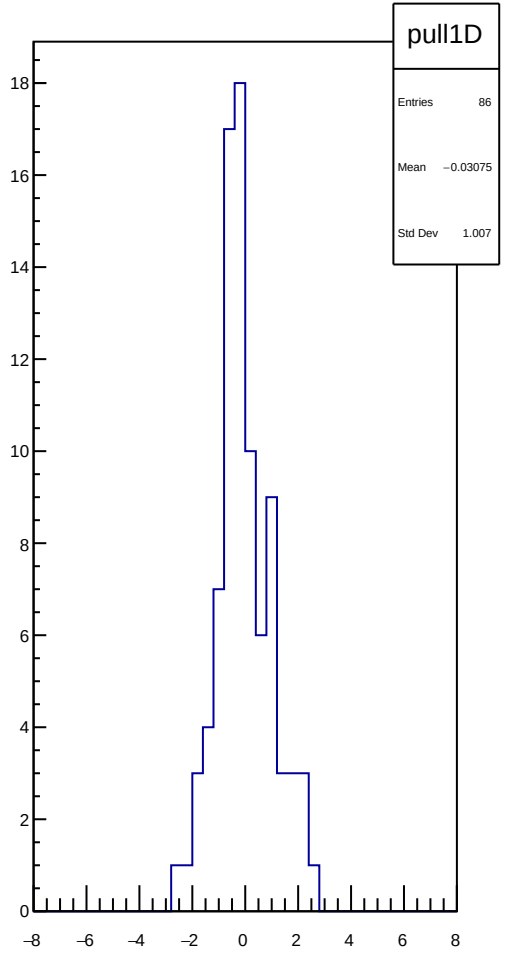

asym_usl_reg_correction_rms vs run
χ² / ndf 6030 / 85
p0 1201 ± 0.9274
1450
1400
1350
1300
1250
1200
1150
1100
1050

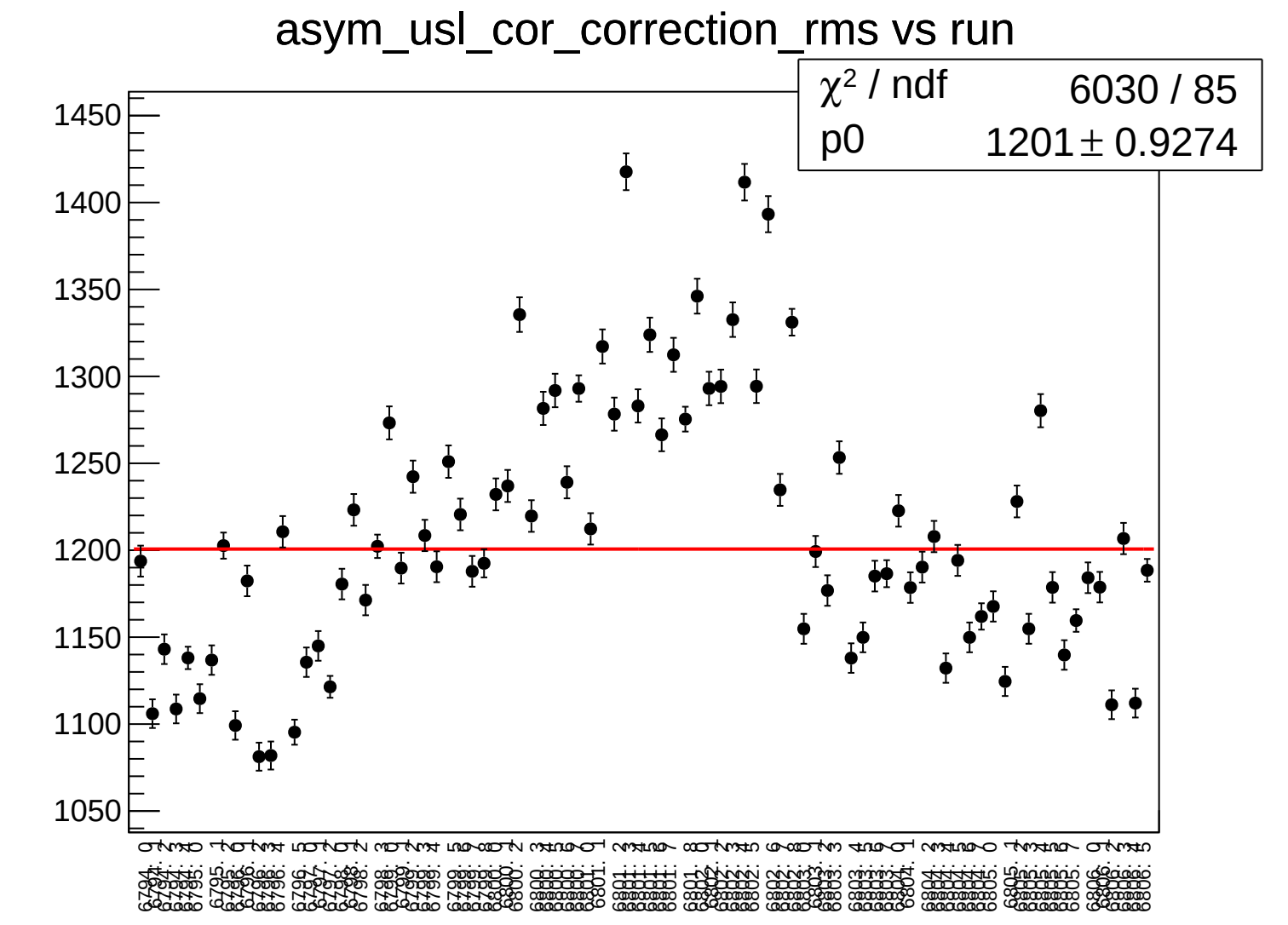

cor_asym_usl_mean vs run
χ² / ndf 70.15 / 85
p0 514.4 ± 1201
pull
Entries 86
Mean 67.63
Std Dev 77.73

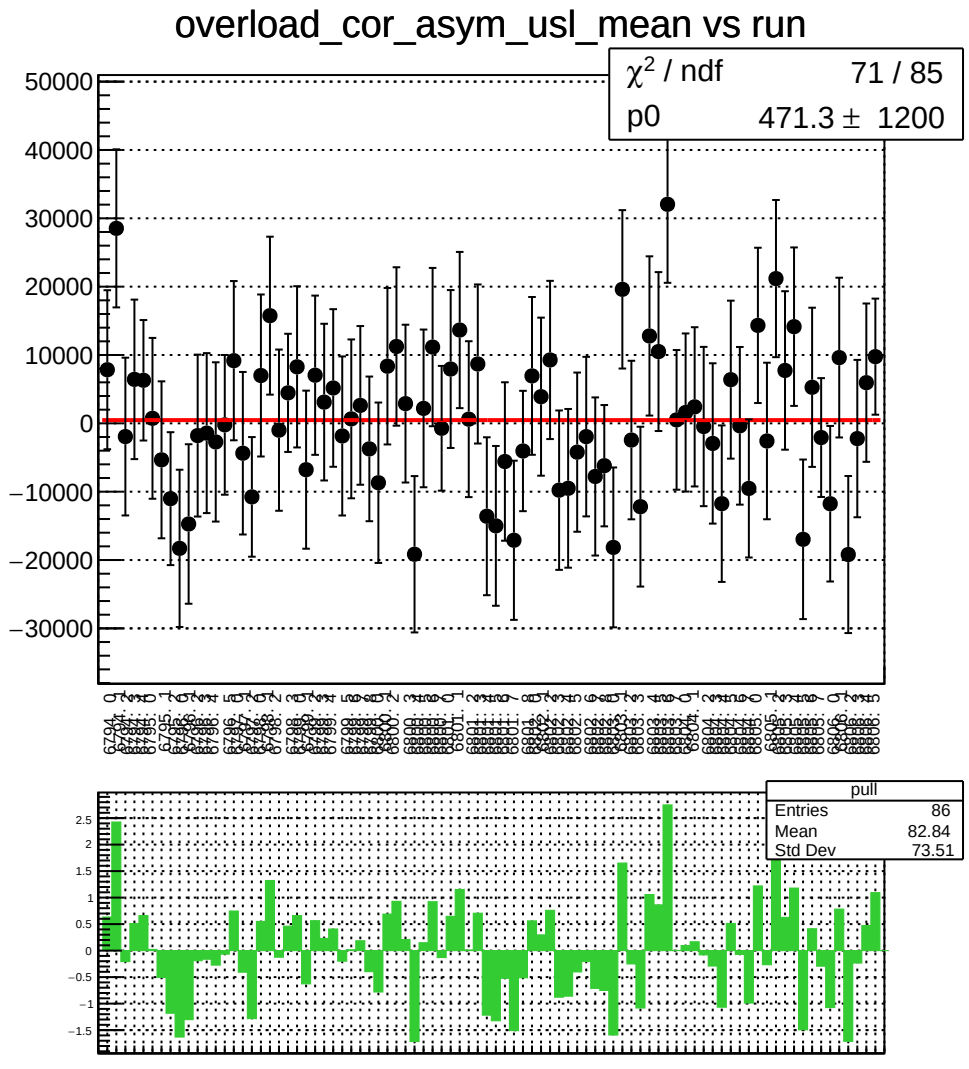

pull1D
Entries 86
Mean 0.006313
Std Dev 0.9031

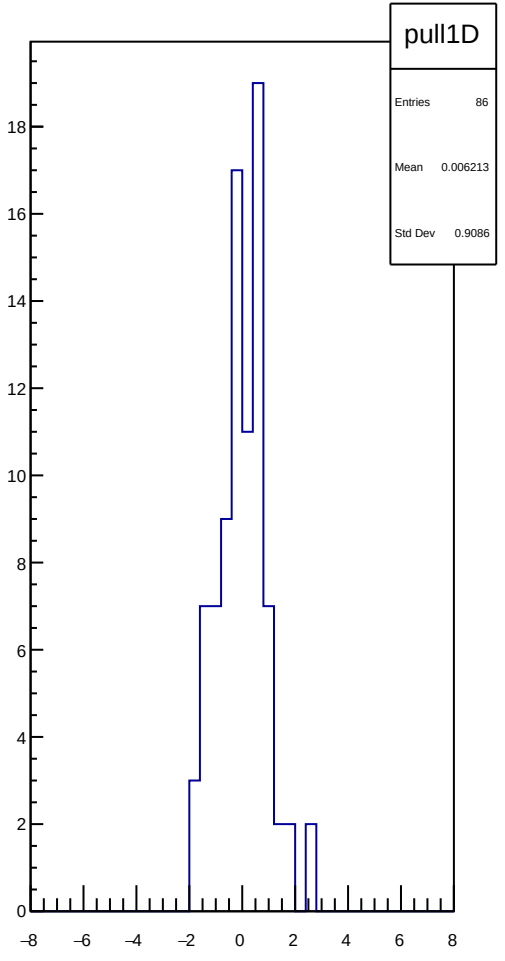

cor_asym_usl_rms vs run
χ² / ndf 121.8 / 85
p0 1101 ± 0.8489
1140
1130
1120
1110
1100
1090
1080
1070

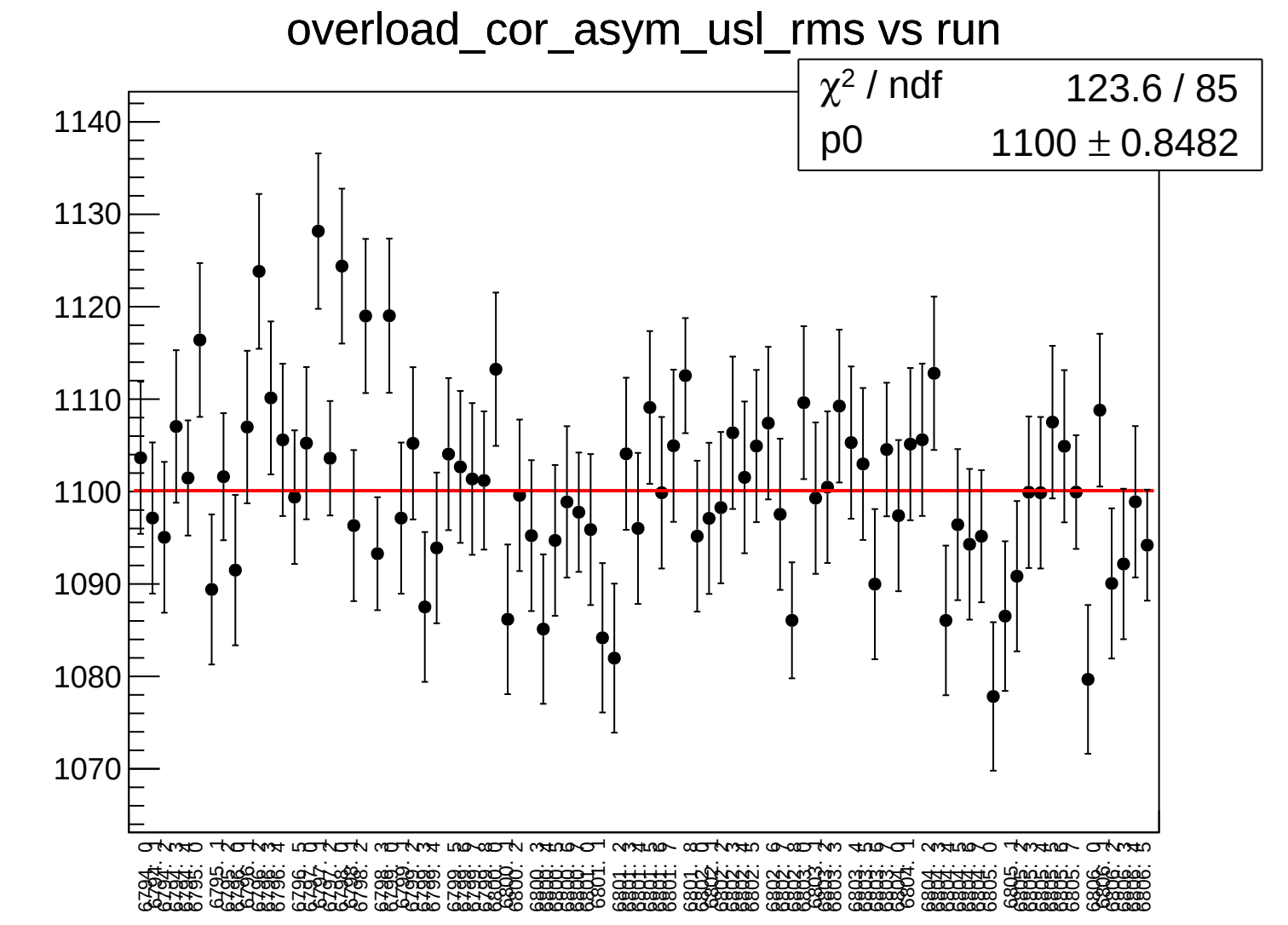

asym_usl_cor_correction_mean vs run
χ² / ndf 87.35 / 85
p0 −1099 ± 1311
pull
Entries 86
Mean −64.22
Std Dev 0

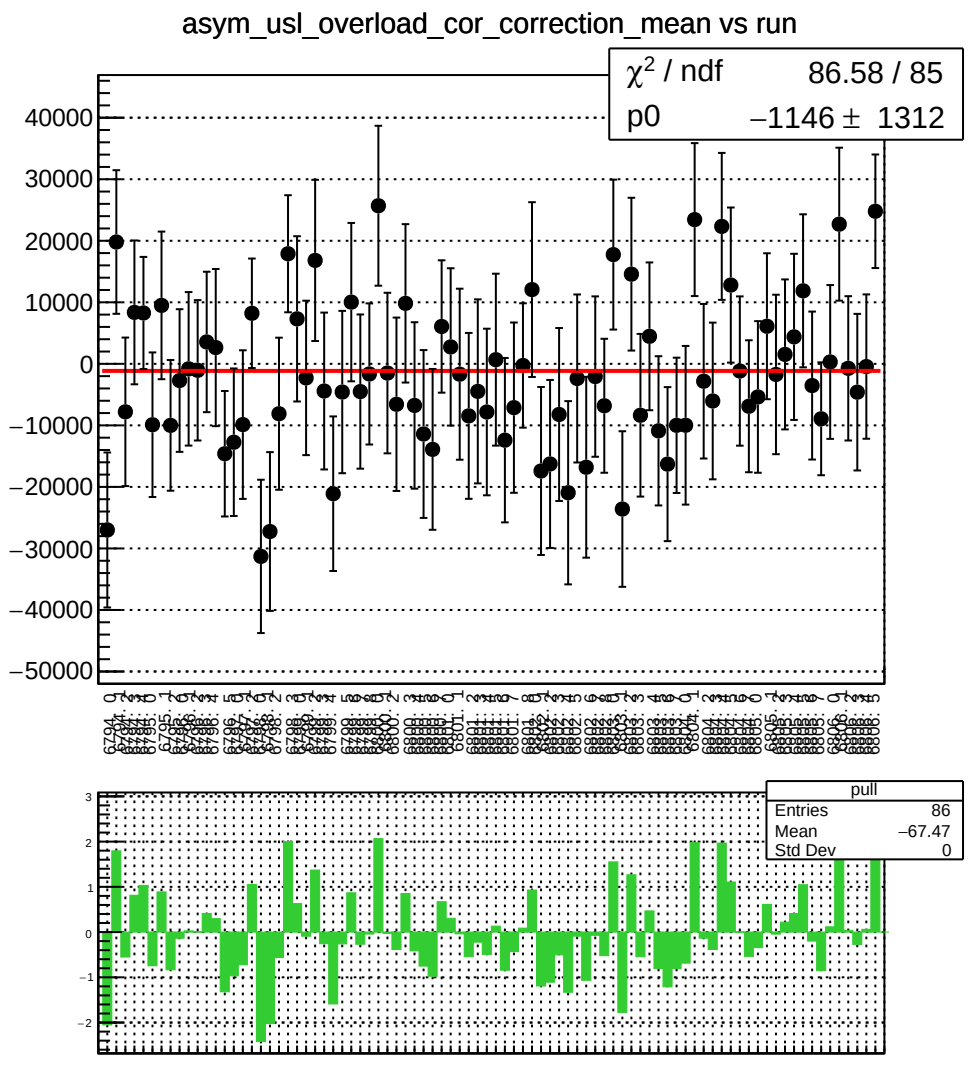

pull1D
Entries 86
Mean −0.03075
Std Dev 1.007

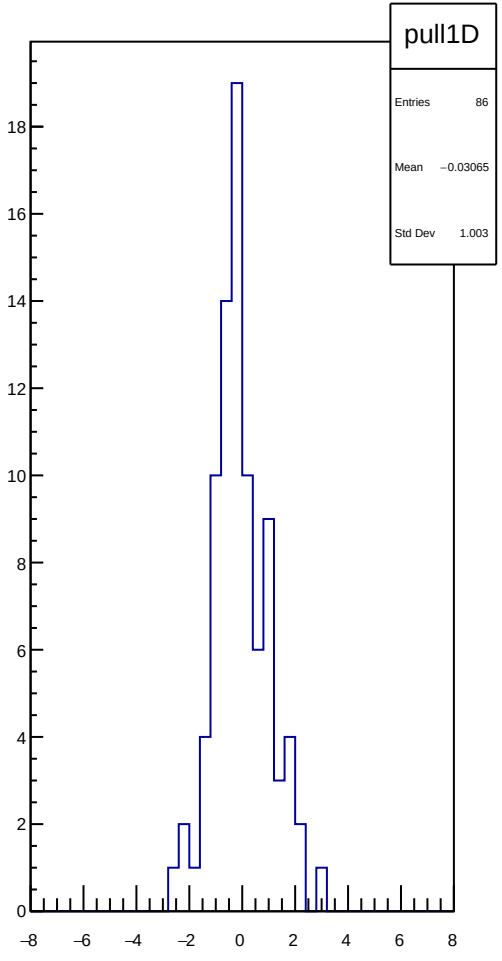

asym_usl_cor_correction_rms vs run
χ² / ndf 6030 / 85
p0 1201 ± 0.9274
1450
1400
1350
1300
1250
1200
1150
1100
1050

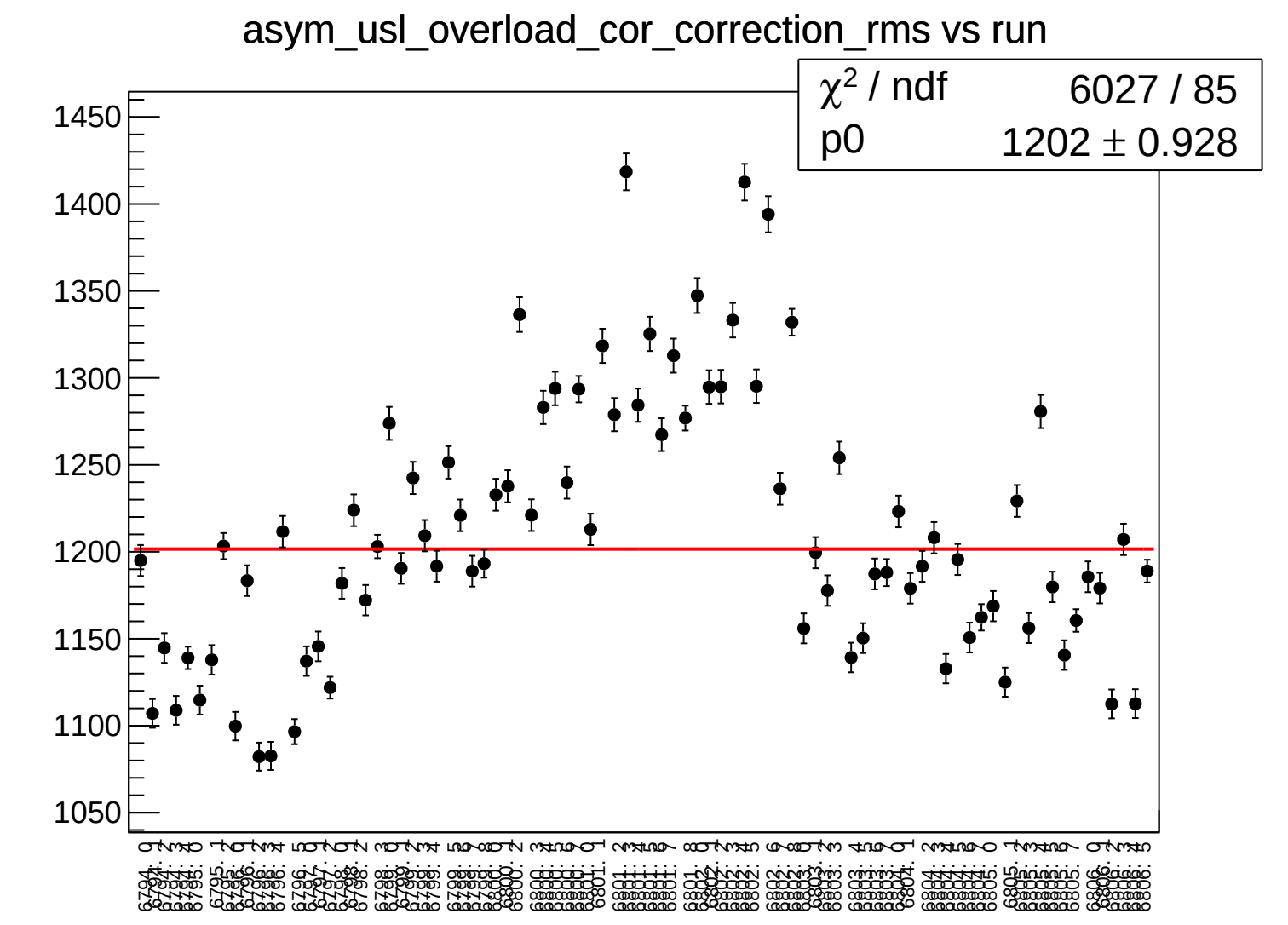

overload_cor_asym_usl_mean vs run
χ² / ndf 71 / 85
p0 471.3 ± 1200
pull
Entries 86
Mean 82.84
Std Dev 73.51

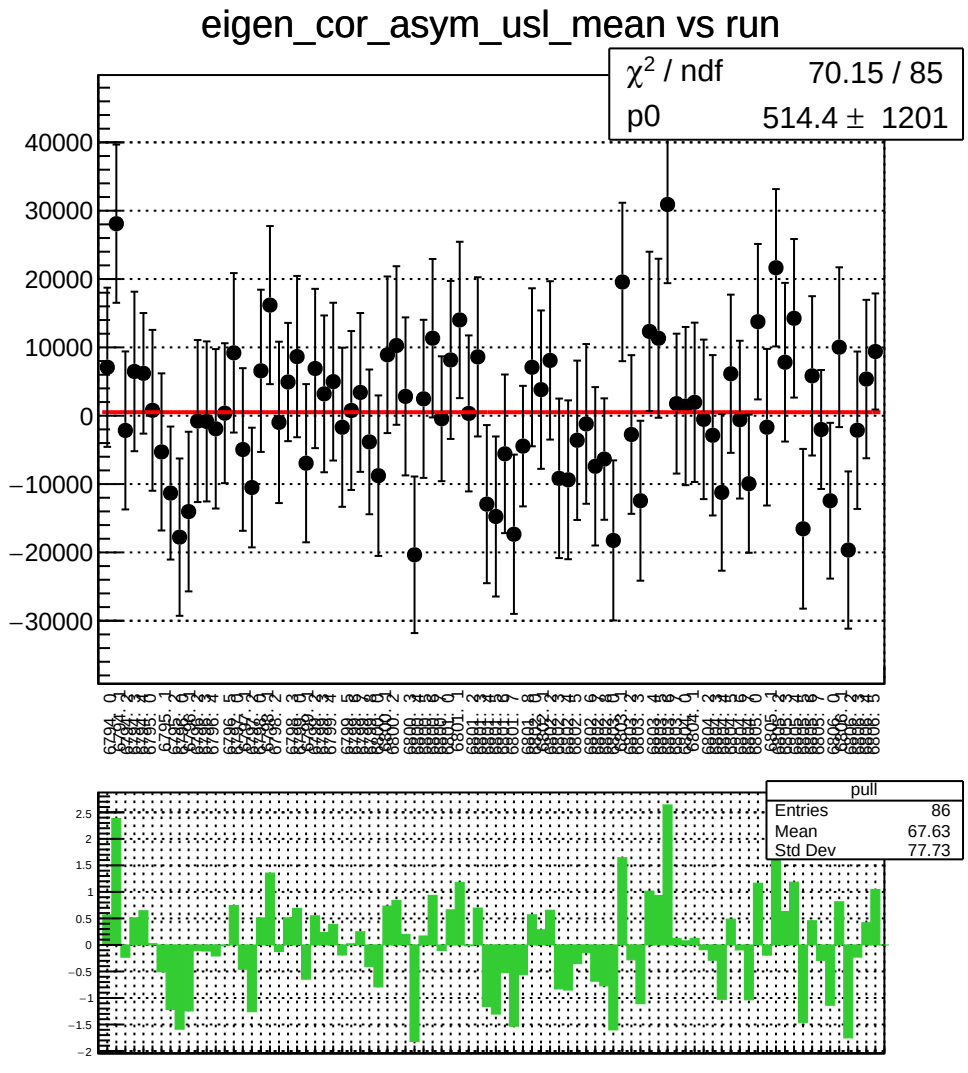

pull1D
Entries 86
Mean 0.006213
Std Dev 0.9086

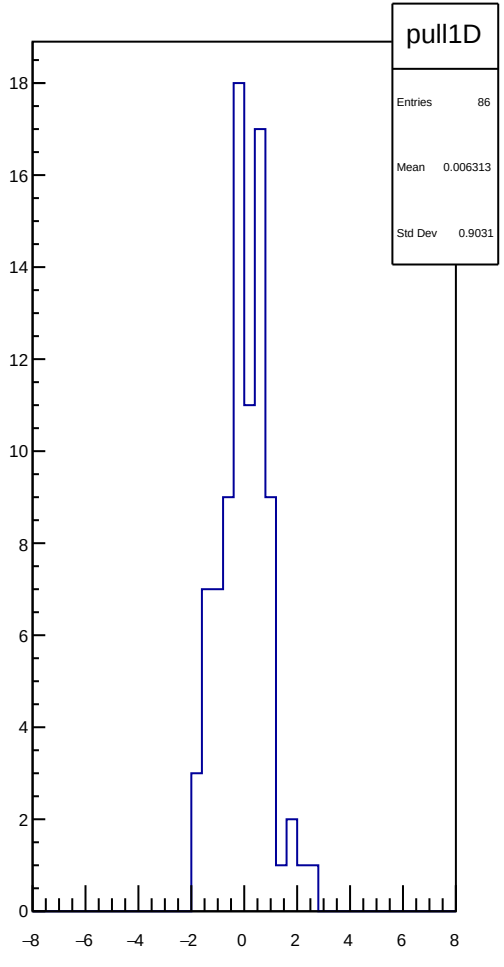

overload_cor_asym_usl_rms vs run
χ² / ndf 123.6 / 85
p0 1100 ± 0.8482
1140
1130
1120
1110
1100
1090
1080
1070

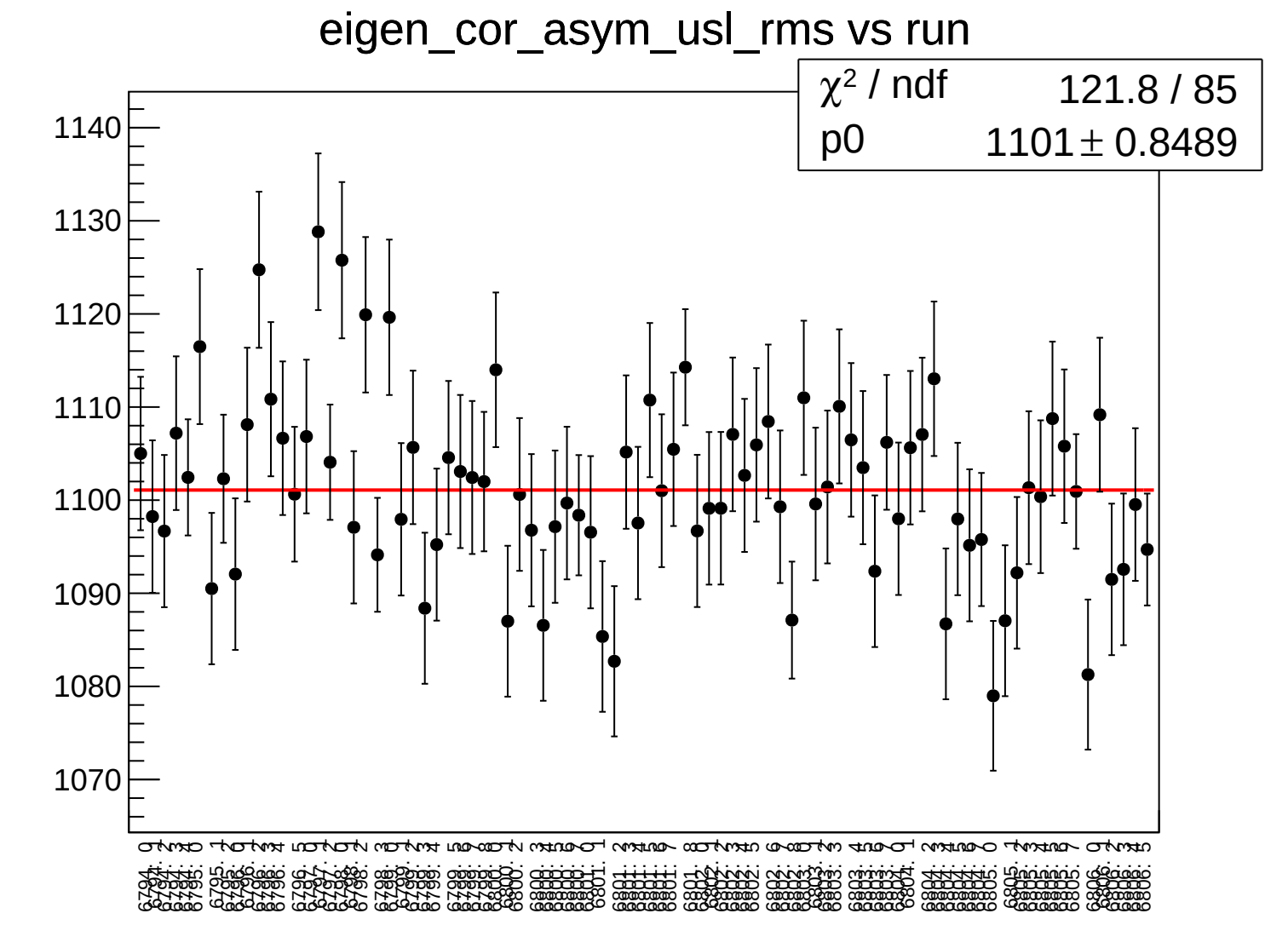

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 86.58 / 85
p0 −1146 ± 1312
pull
Entries 86
Mean −67.47
Std Dev 0

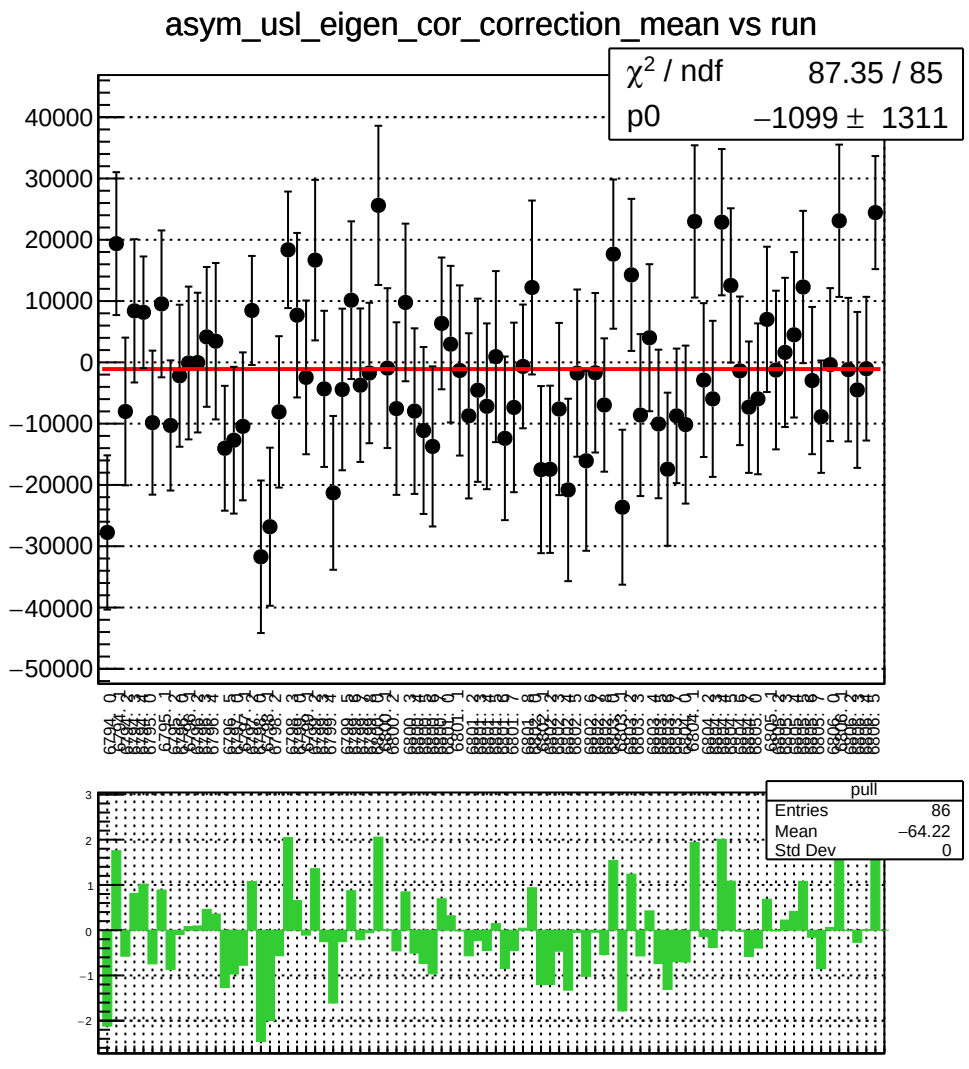

pull1D
Entries 86
Mean −0.03065
Std Dev 1.003

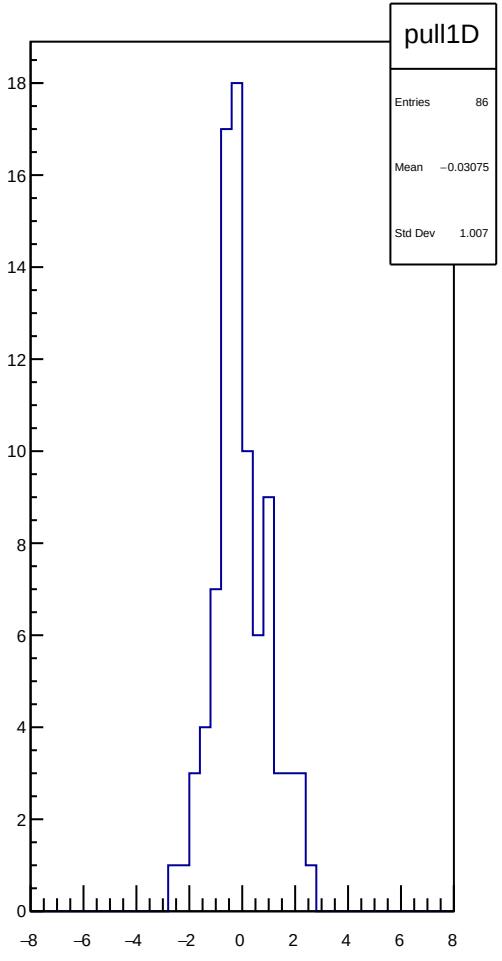

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 6027 / 85
p0 1202 ± 0.928
1450
1400
1350
1300
1250
1200
1150
1100
1050

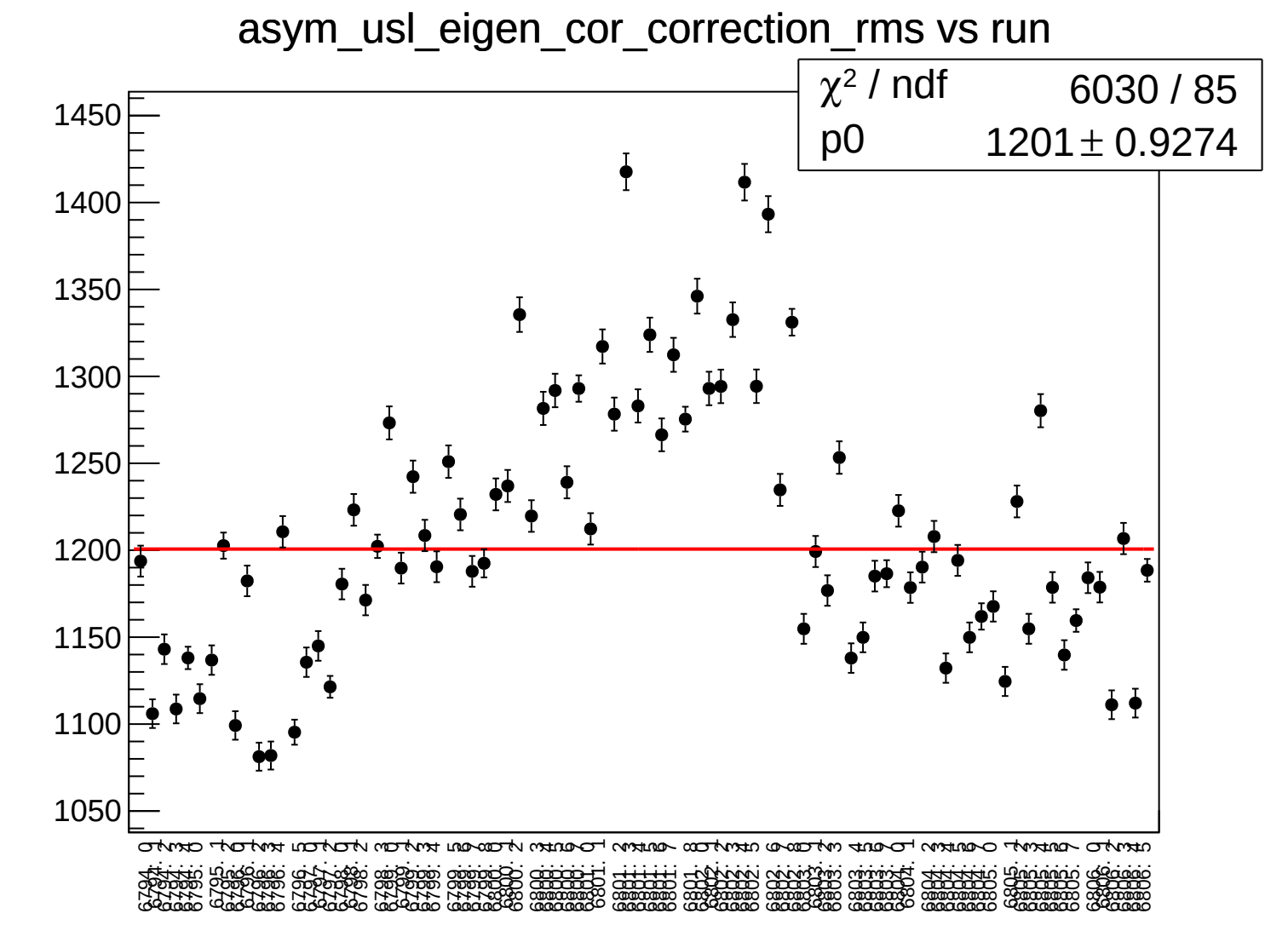

eigen_cor_asym_usl_mean vs run
χ² / ndf 70.15 / 85
p0 514.4 ± 1201
pull
Entries 86
Mean 67.63
Std Dev 77.73

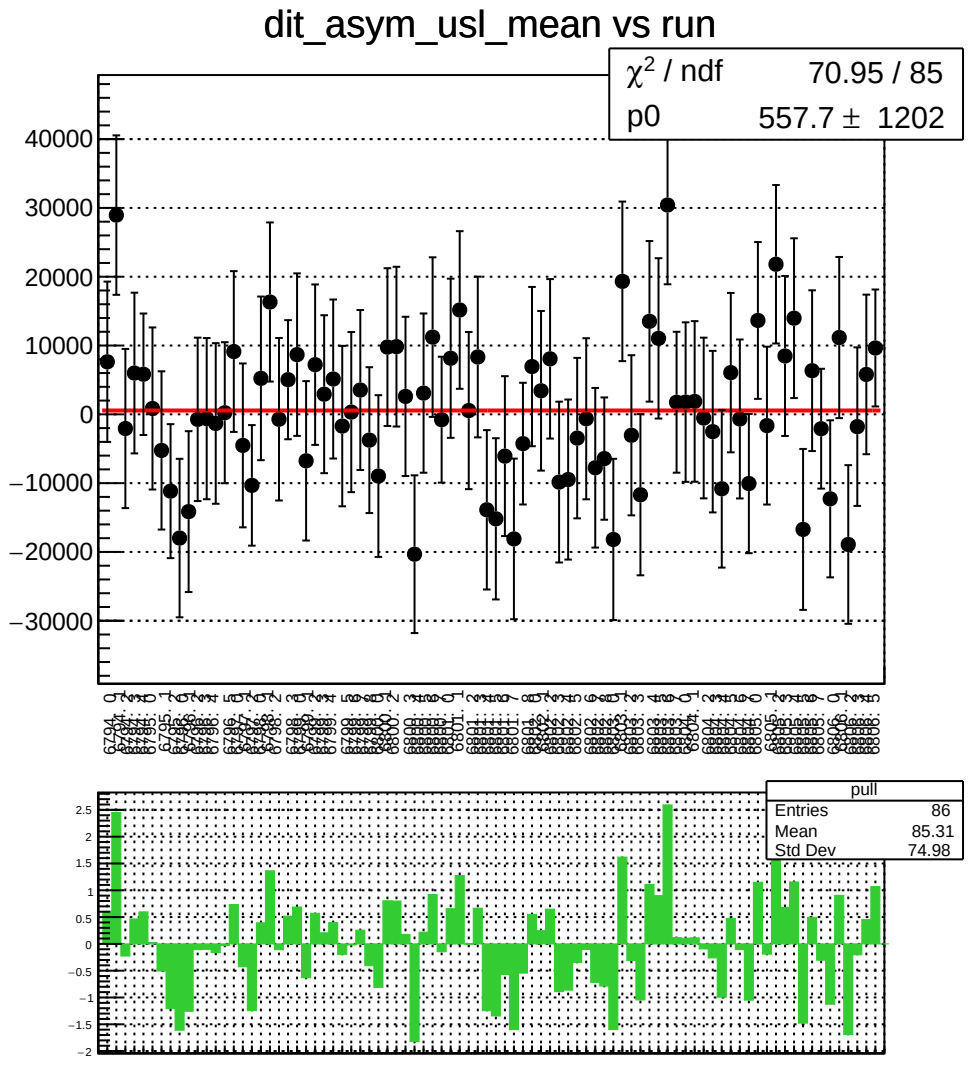

pull1D
Entries 86
Mean 0.006313
Std Dev 0.9031

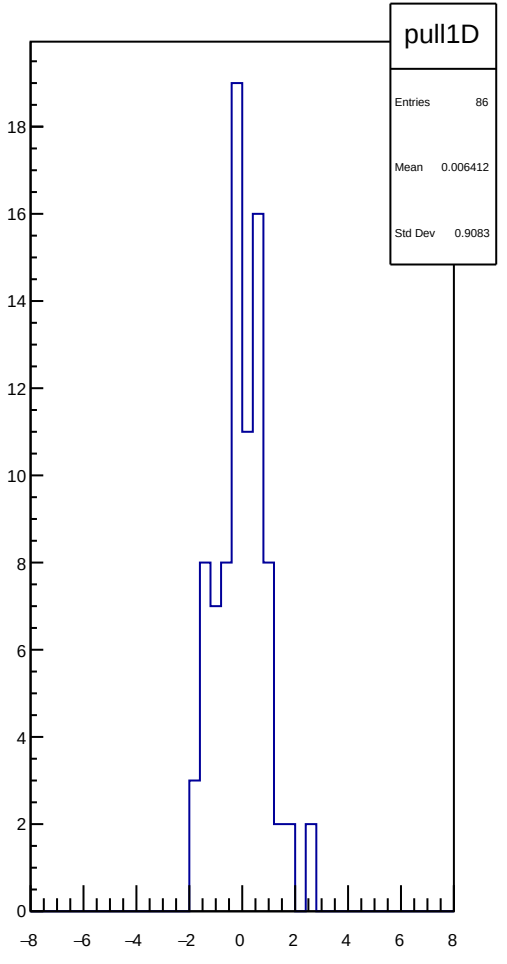

eigen_cor_asym_usl_rms vs run
χ² / ndf 121.8 / 85
p0 1101 ± 0.8489
1140
1130
1120
1110
1100
1090
1080
1070

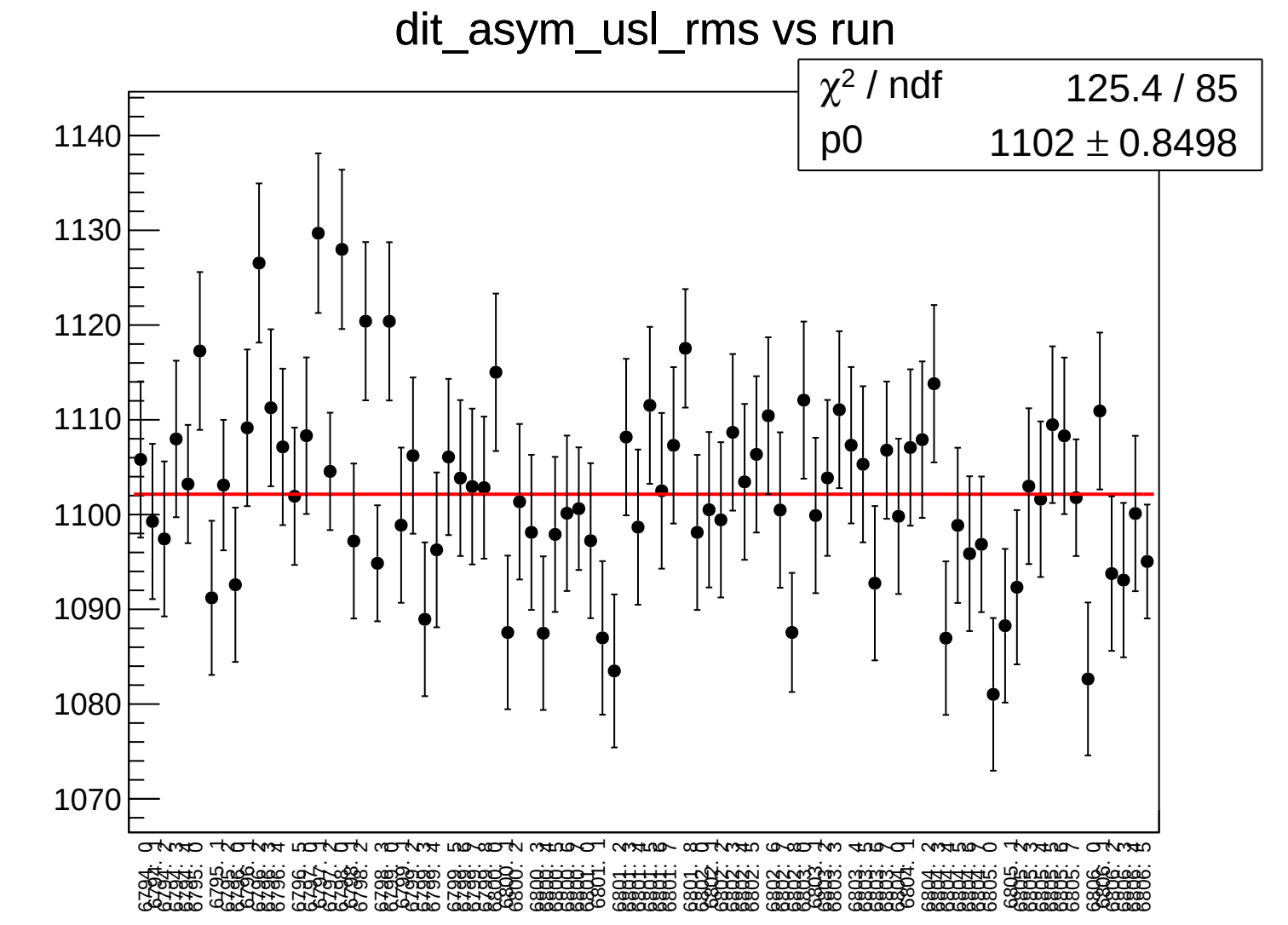

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 87.35 / 85
p0 −1099 ± 1311
pull
Entries 86
Mean −64.22
Std Dev 0

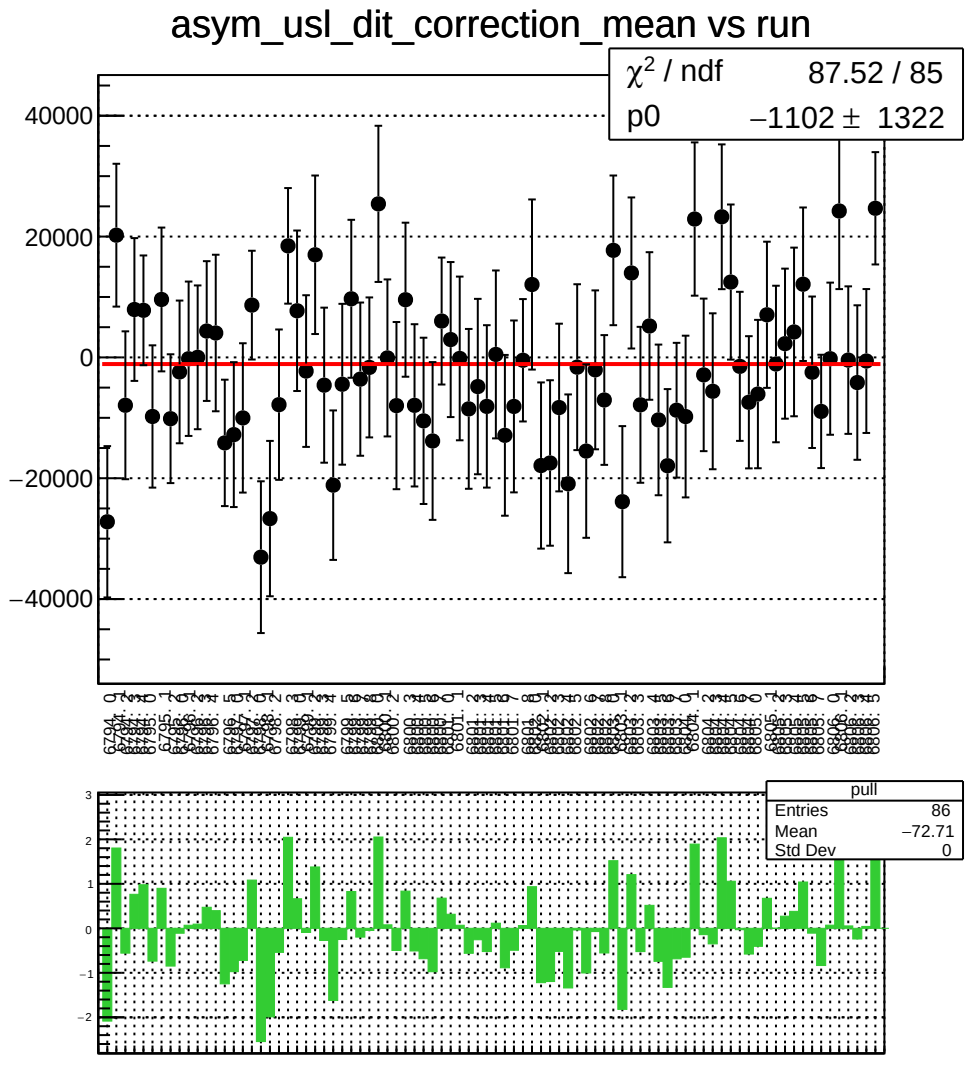

pull1D
Entries 86
Mean −0.03075
Std Dev 1.007

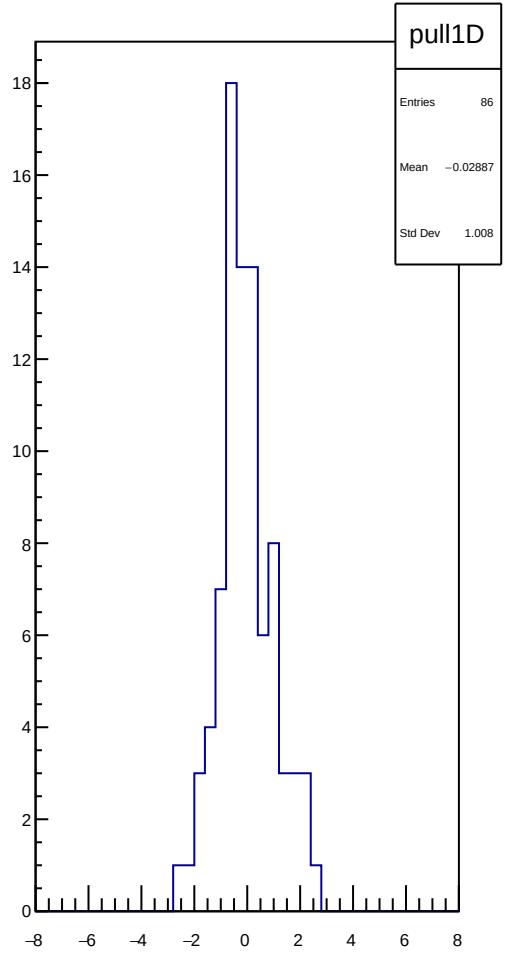

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 6030 / 85
p0 1201 ± 0.9274
1450
1400
1350
1300
1250
1200
1150
1100
1050

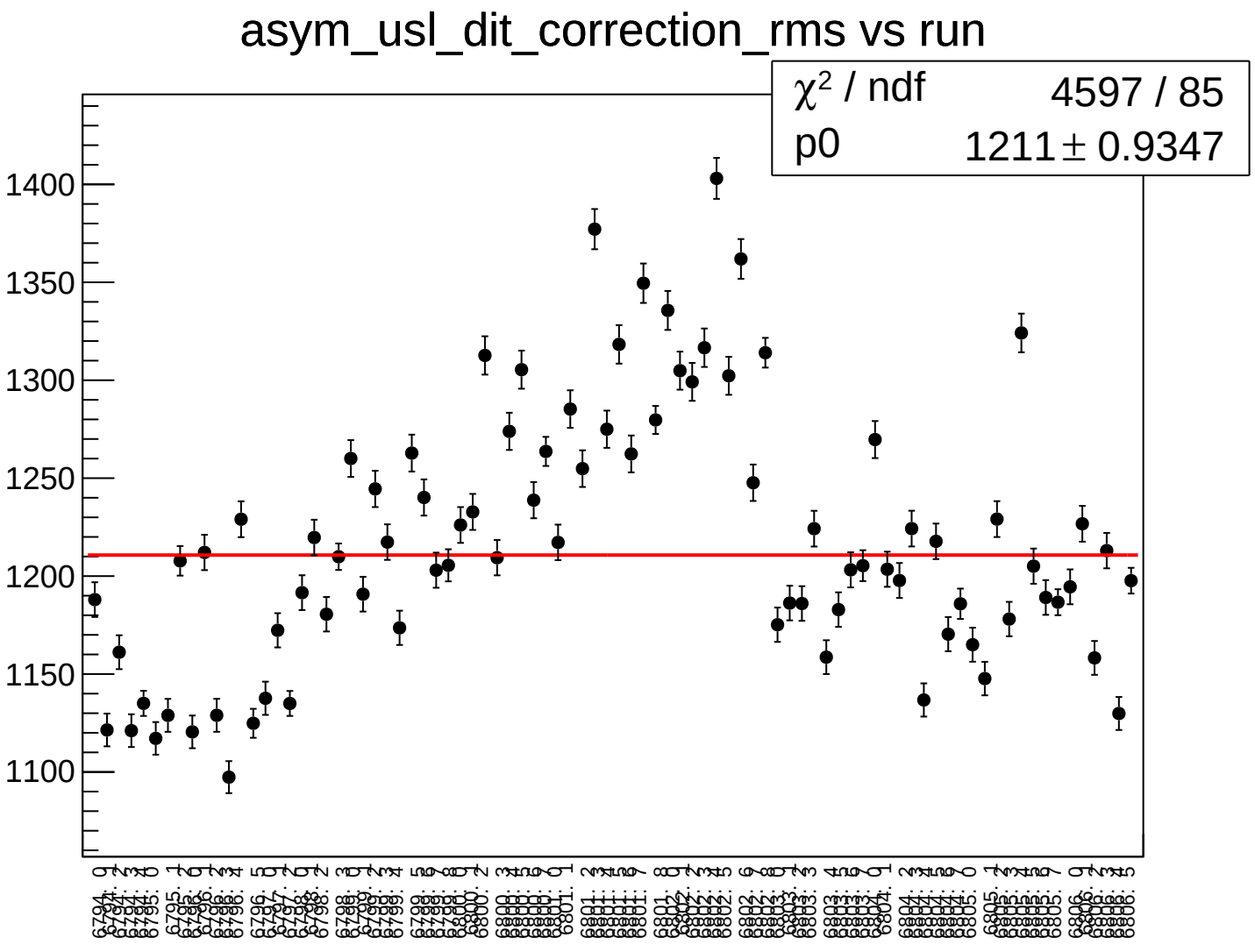

dit_asym_usl_mean vs run
χ² / ndf 70.95 / 85
p0 557.7 ± 1202
pull
Entries 86
Mean 85.31
Std Dev 74.98

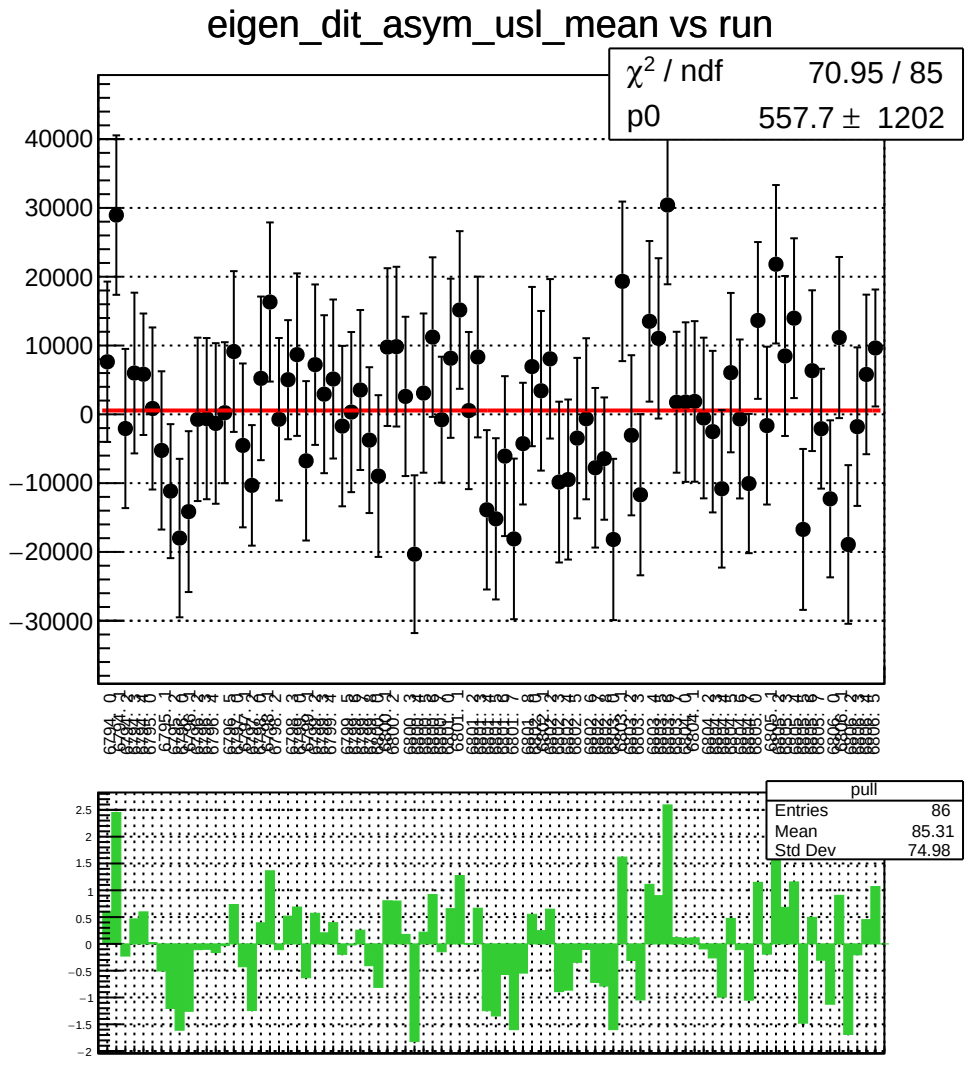

pull1D
Entries 86
Mean 0.006412
Std Dev 0.9083

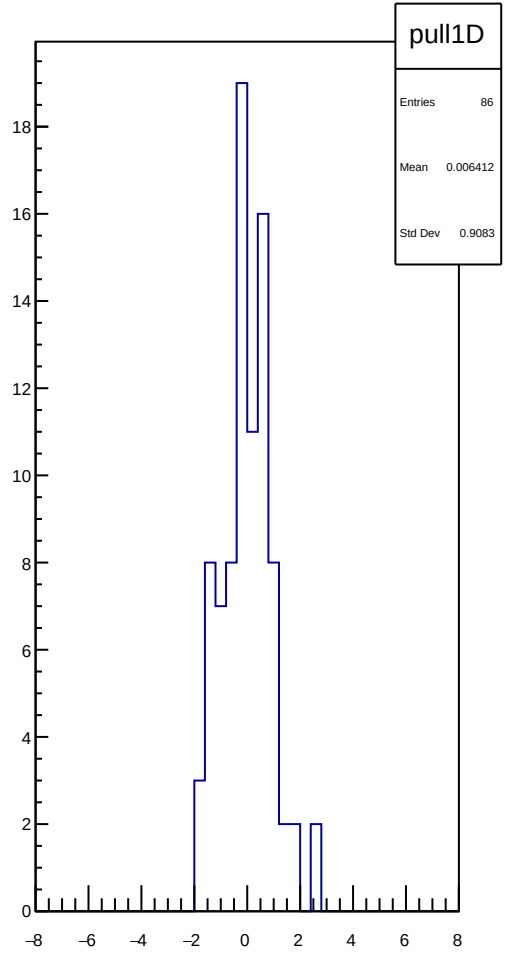

dit_asym_usl_rms vs run
χ^2 / ndf 125.4 / 85
p0 1102 ± 0.8498
1140
1130
1120
1110
1100
1090
1080
1070

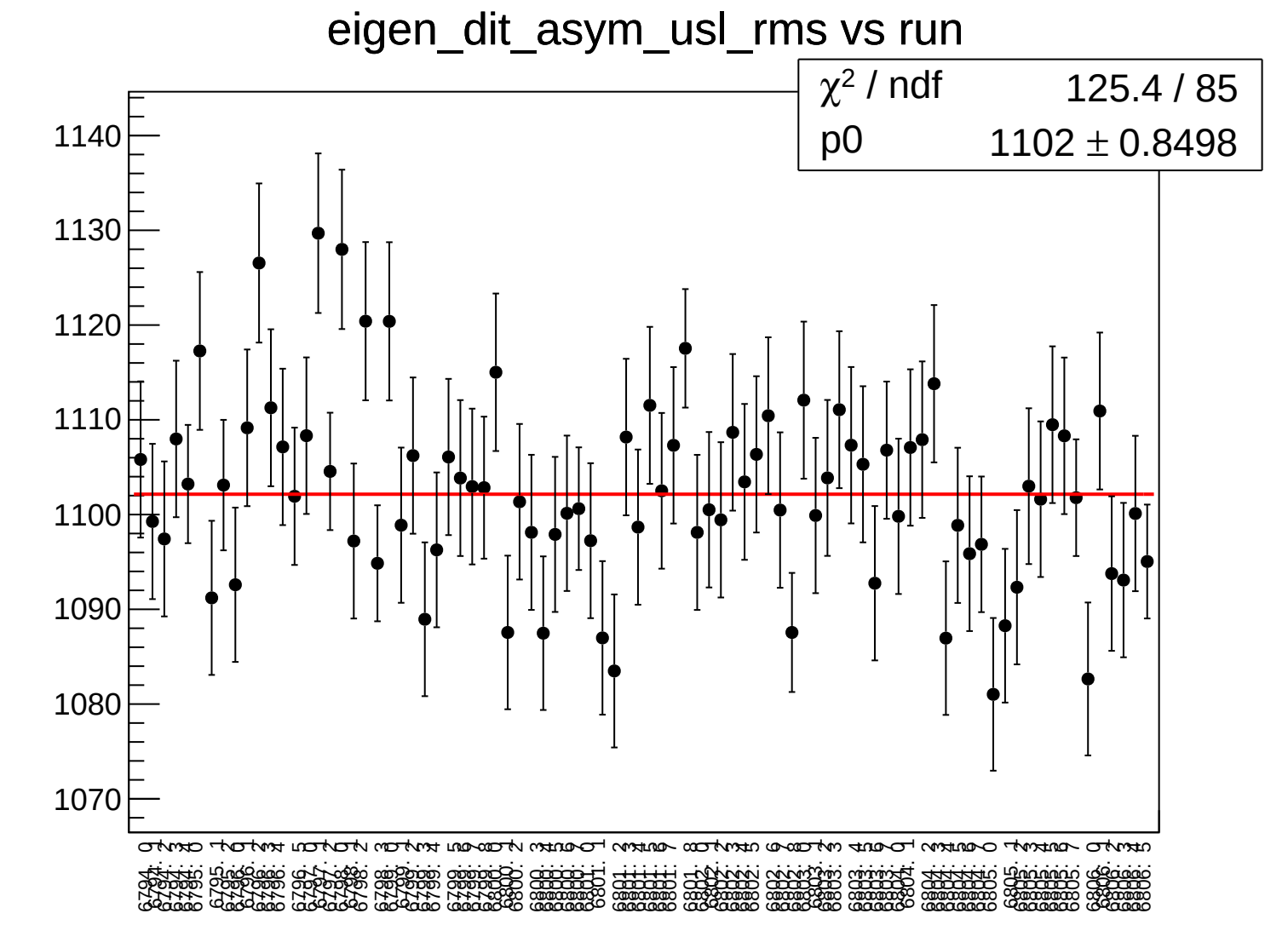

asym_usl_dit_correction_mean vs run
χ² / ndf 87.52 / 85
p0 −1102 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −72.71
Std Dev 0
3
2
1
0
−1
−2

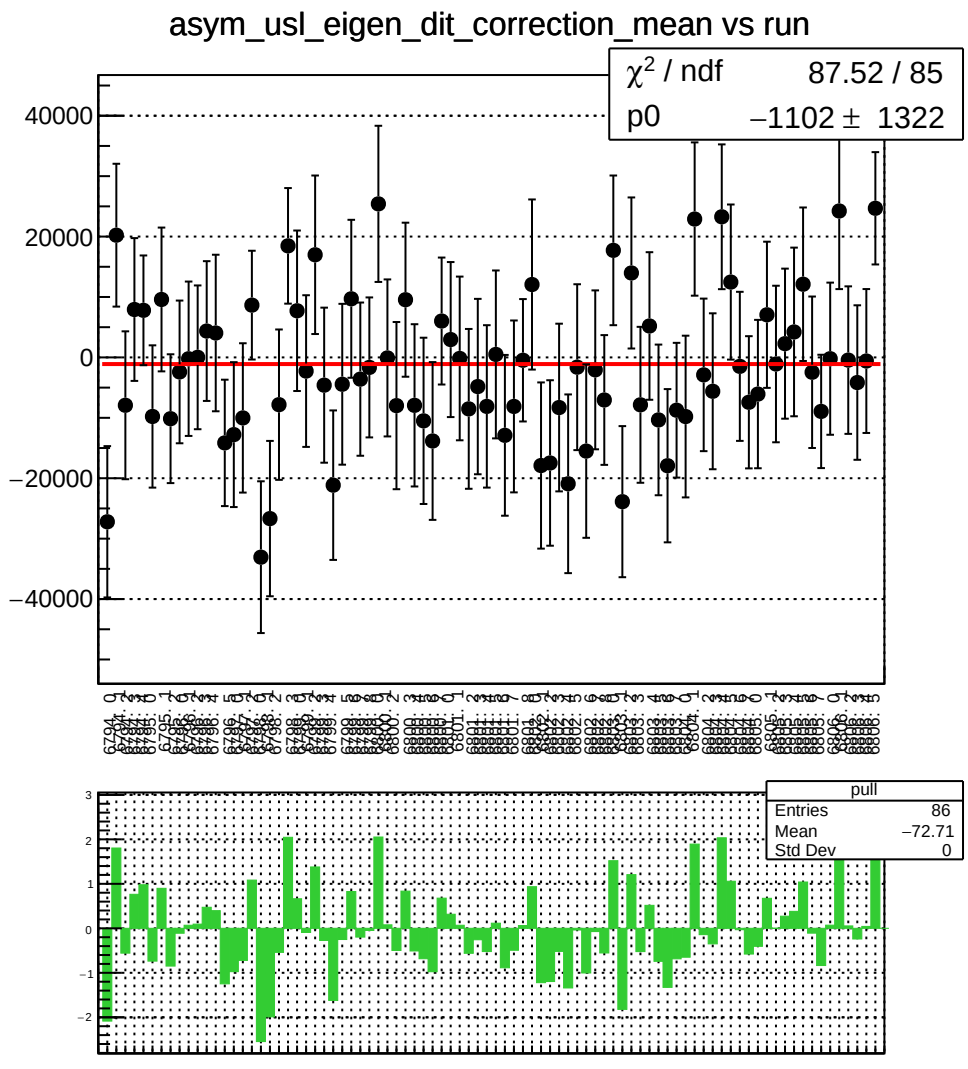

pull1D
Entries 86
Mean −0.02887
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

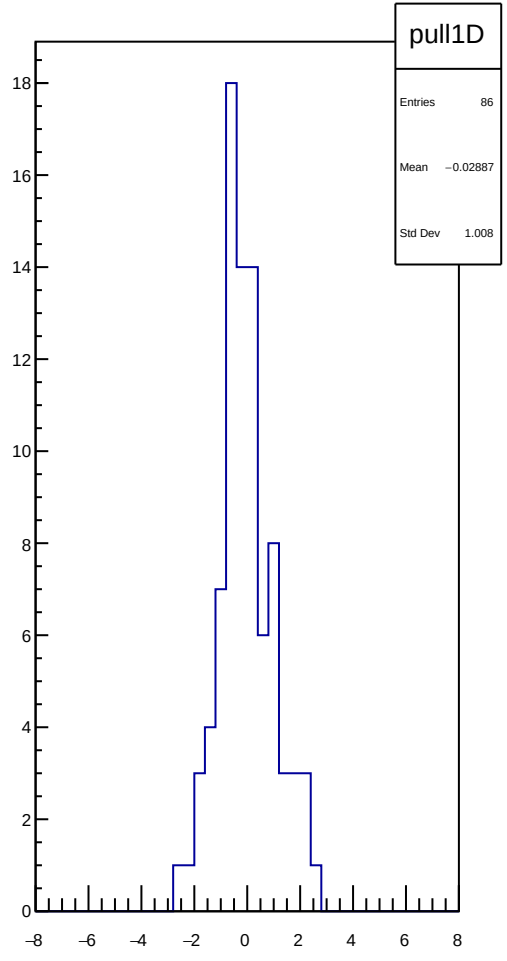

asym_usl_dit_correction_rms vs run
χ² / ndf 4597 / 85
p0 1211 ± 0.9347
1400
1350
1300
1250
1200
1150
1100

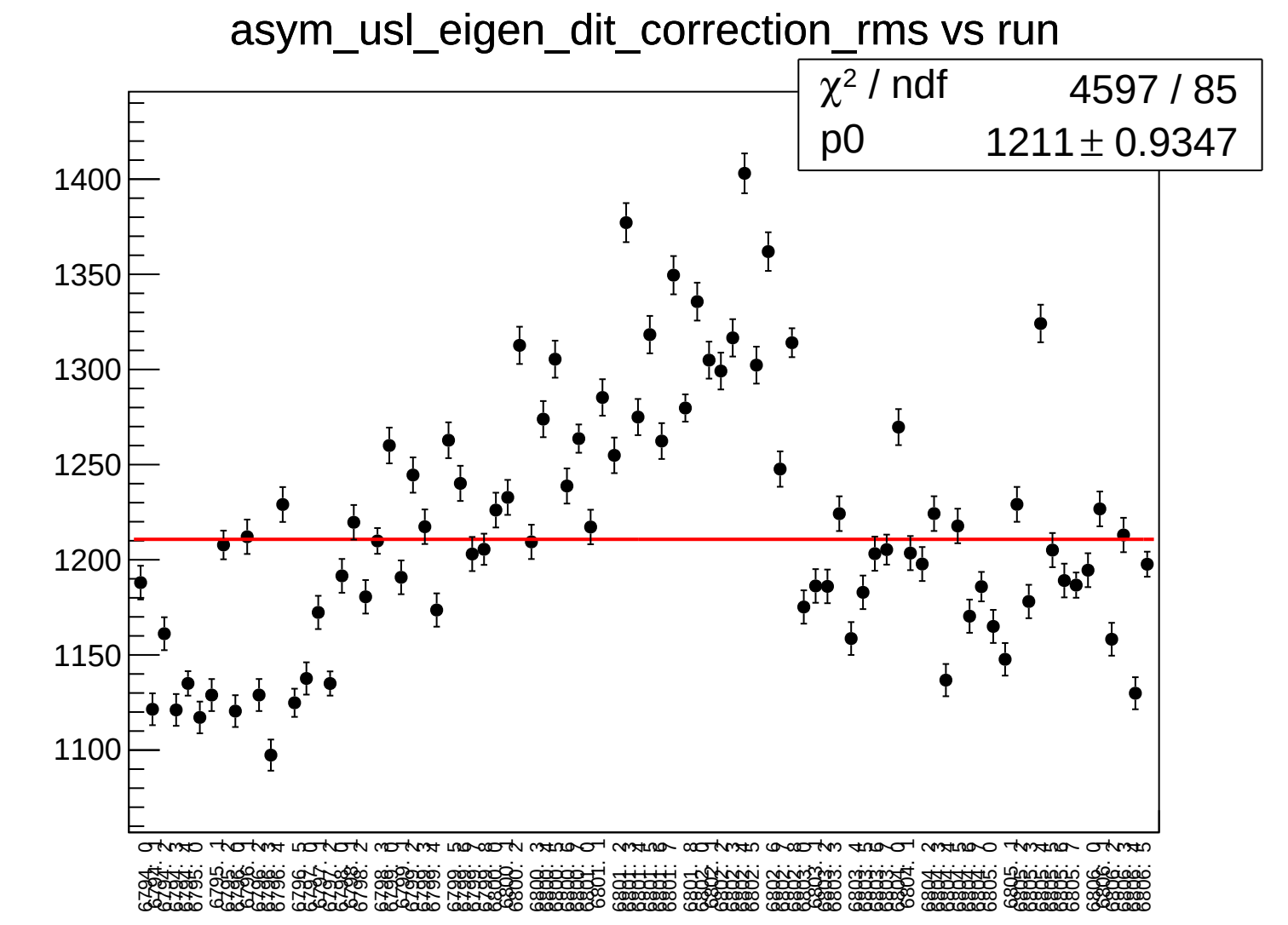

eigen_dit_asym_usl_mean vs run
χ² / ndf 70.95 / 85
p0 557.7 ± 1202
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 85.31
Std Dev 74.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

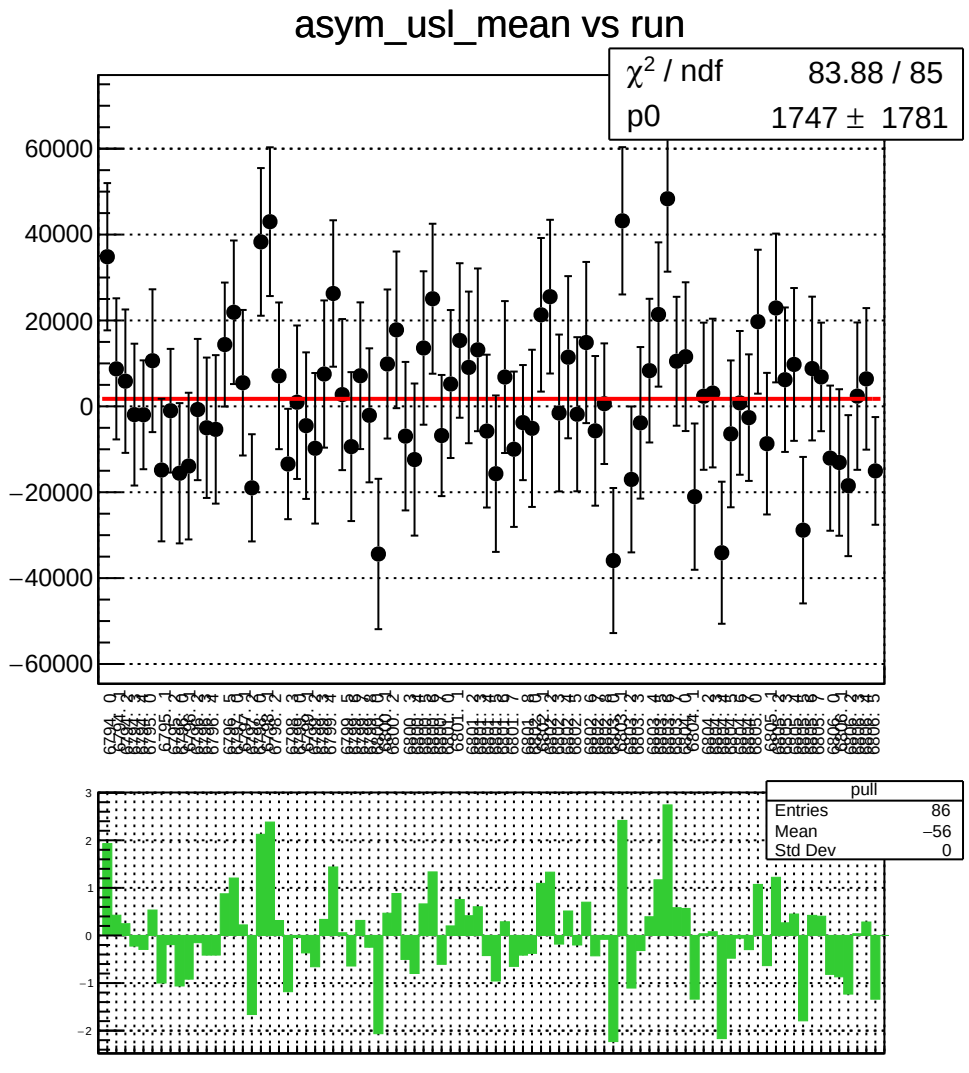

pull1D
Entries 86
Mean 0.006412
Std Dev 0.9083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

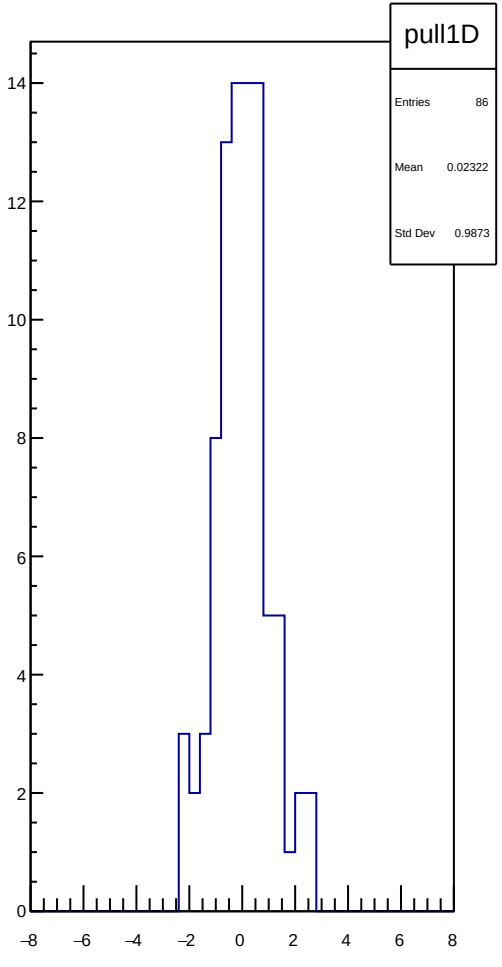

eigen_dit_asym_usl_rms vs run
χ^2 / ndf 125.4 / 85
p0 1102 ± 0.8498
1140
1130
1120
1110
1100
1090
1080
1070

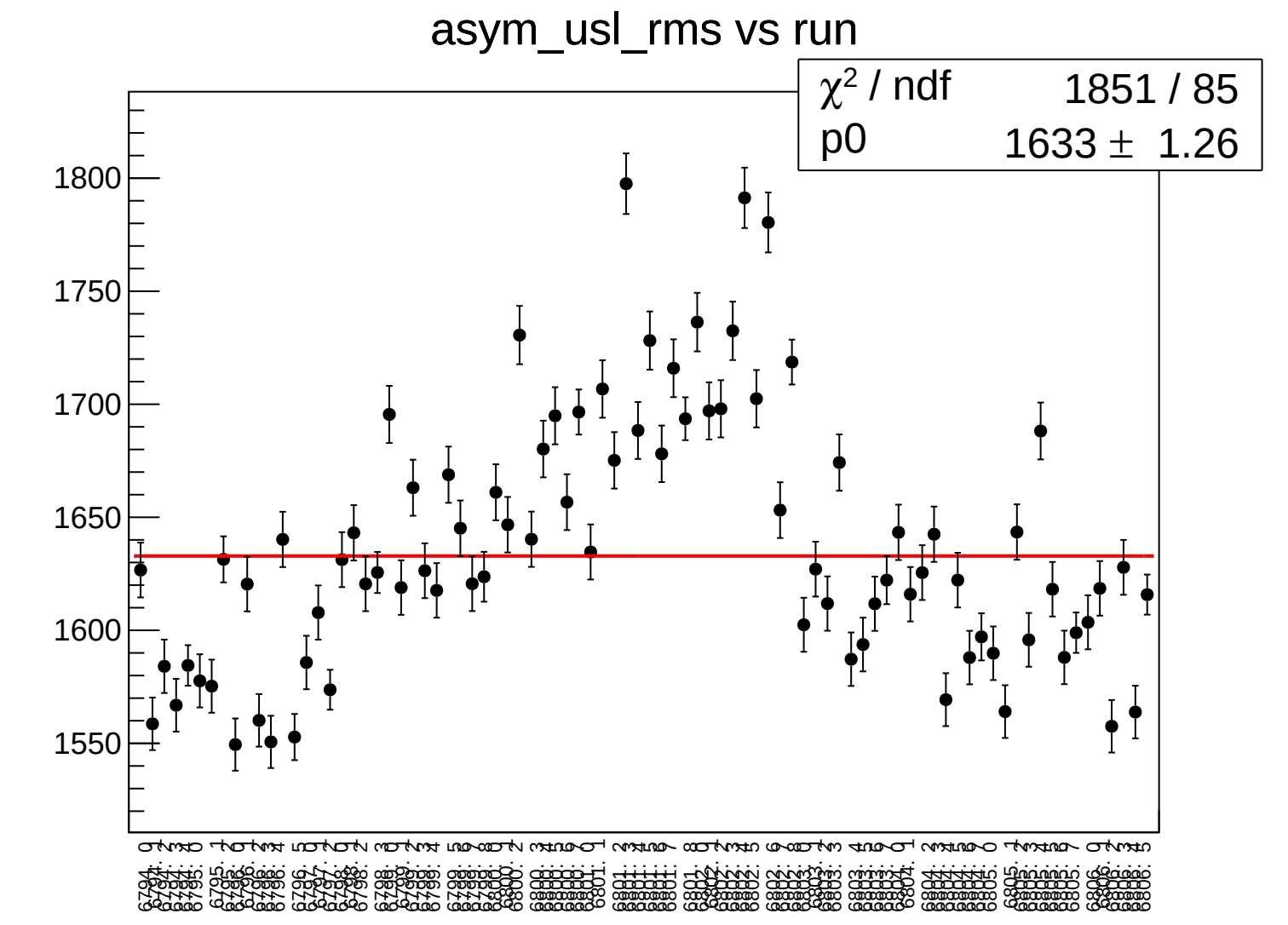

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 87.52 / 85
p0 −1102 ± 1322
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −72.71
Std Dev 0
3
2
1
0
−1
−2

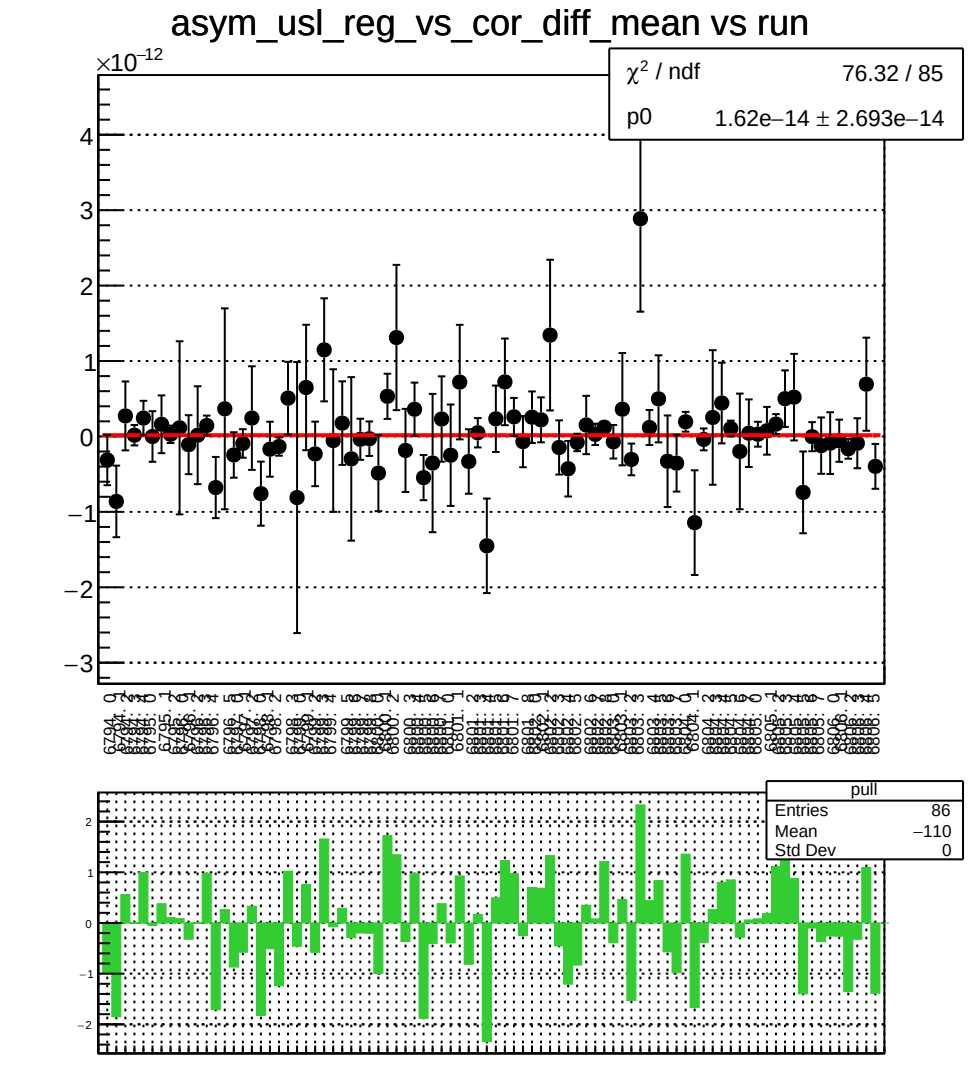

pull1D
Entries 86
Mean −0.02887
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

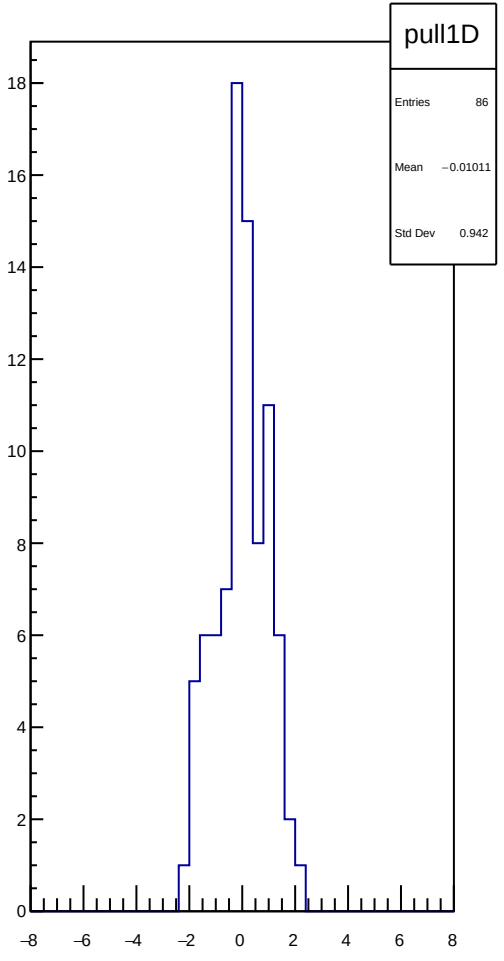

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 4597 / 85
p0 1211 ± 0.9347
1400
1350
1300
1250
1200
1150
1100

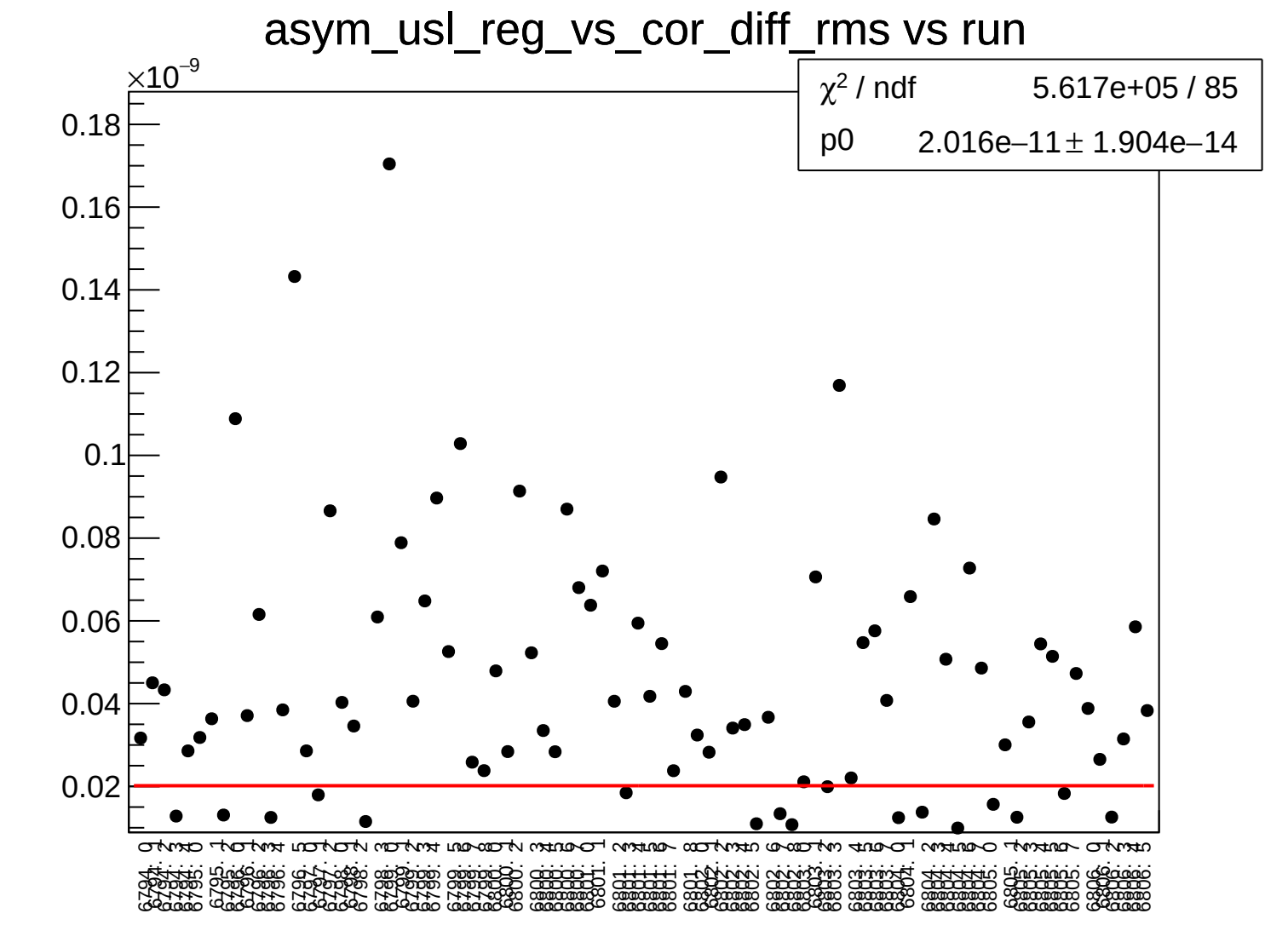

asym_usl_mean vs run
χ² / ndf 83.88 / 85
p0 1747 ± 1781
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −56
Std Dev 0
3
2
1
0
−1
−2

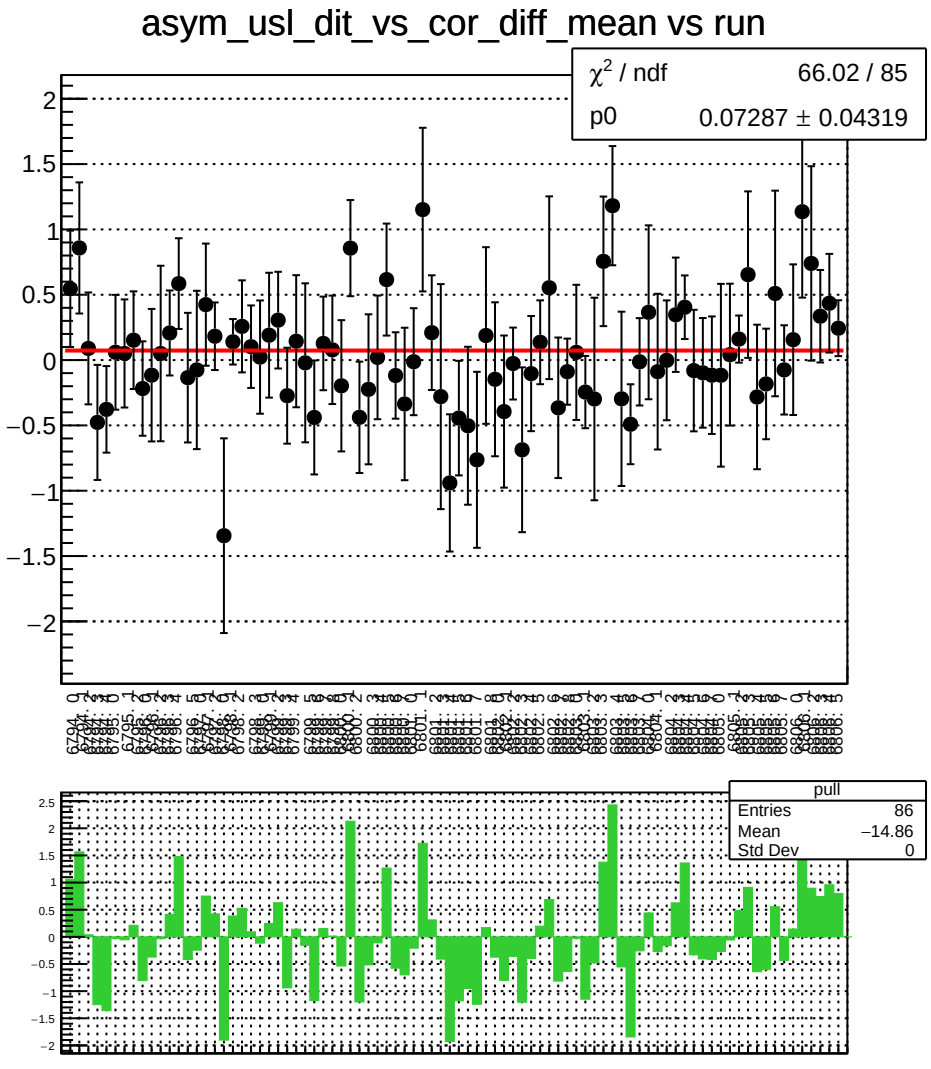

pull1D
Entries 86
Mean 0.02322
Std Dev 0.9873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

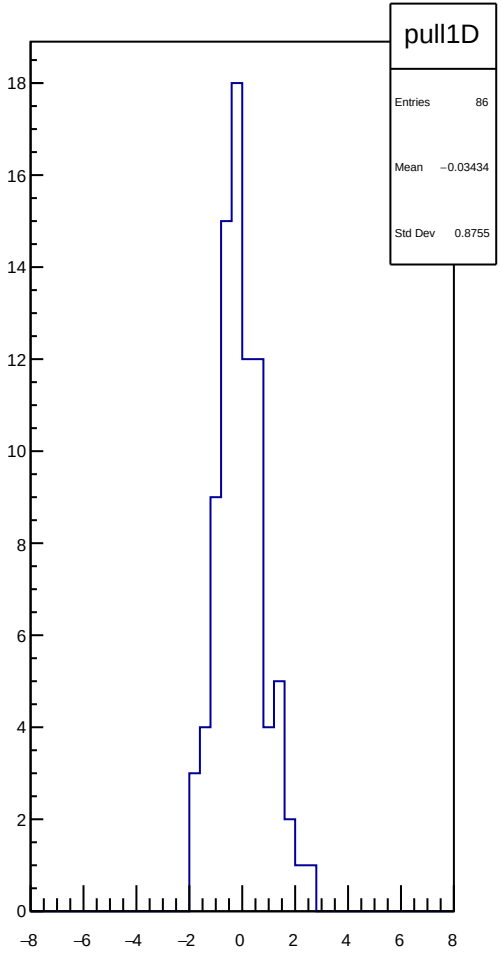

asym_usl_rms vs run
χ^2 / ndf 1851 / 85
p0 1633 ± 1.26
1800
1750
1700
1650
1600
1550

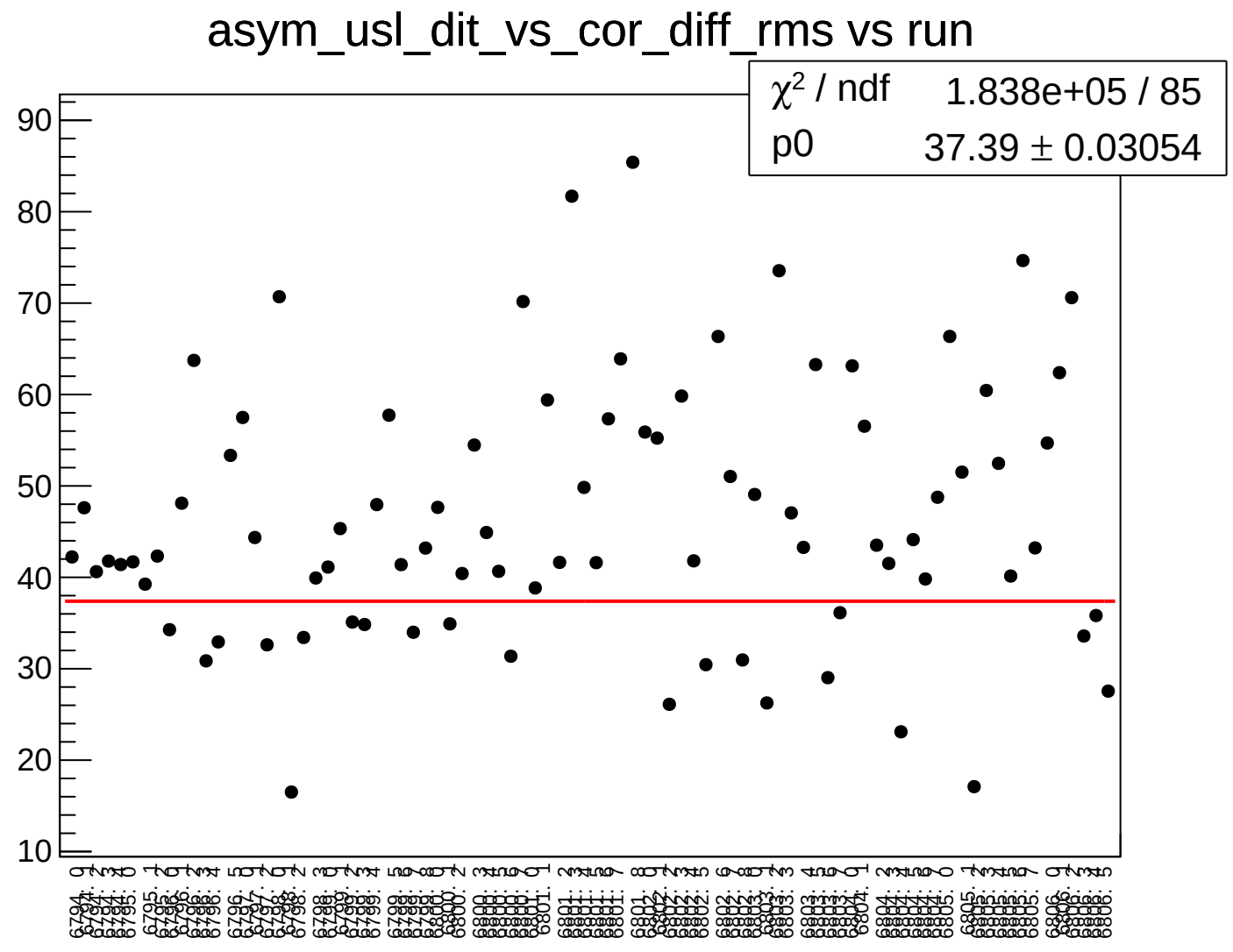

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.32 / 85
p0 1.62e−14 ± 2.693e−14
pull
Entries 86
Mean −110
Std Dev 0

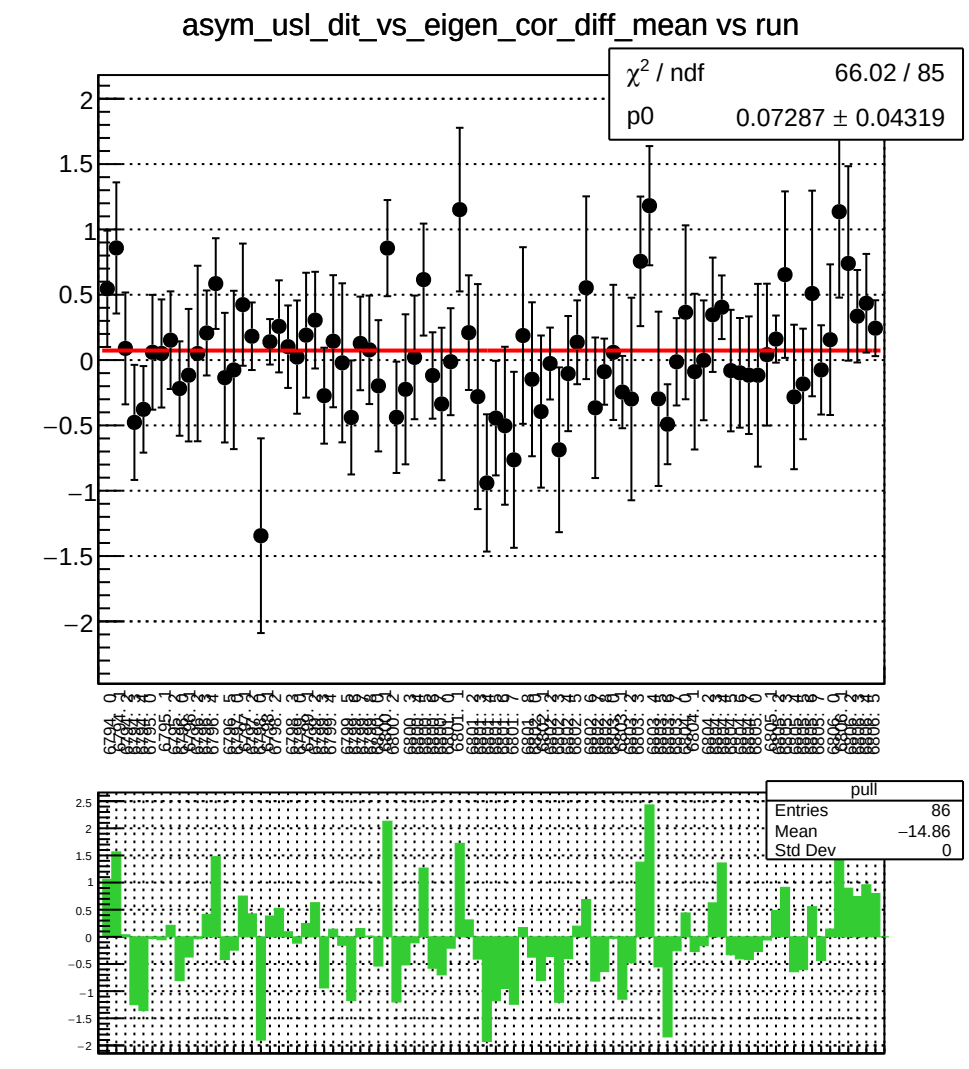

pull1D
Entries 86
Mean −0.01011
Std Dev 0.942

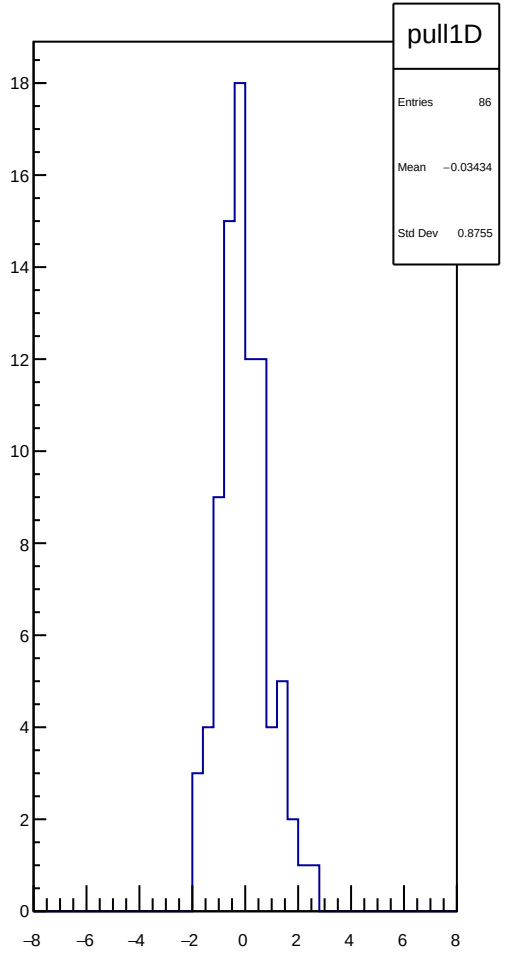

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.617e+05 / 85
p0 2.016e−11 ± 1.904e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

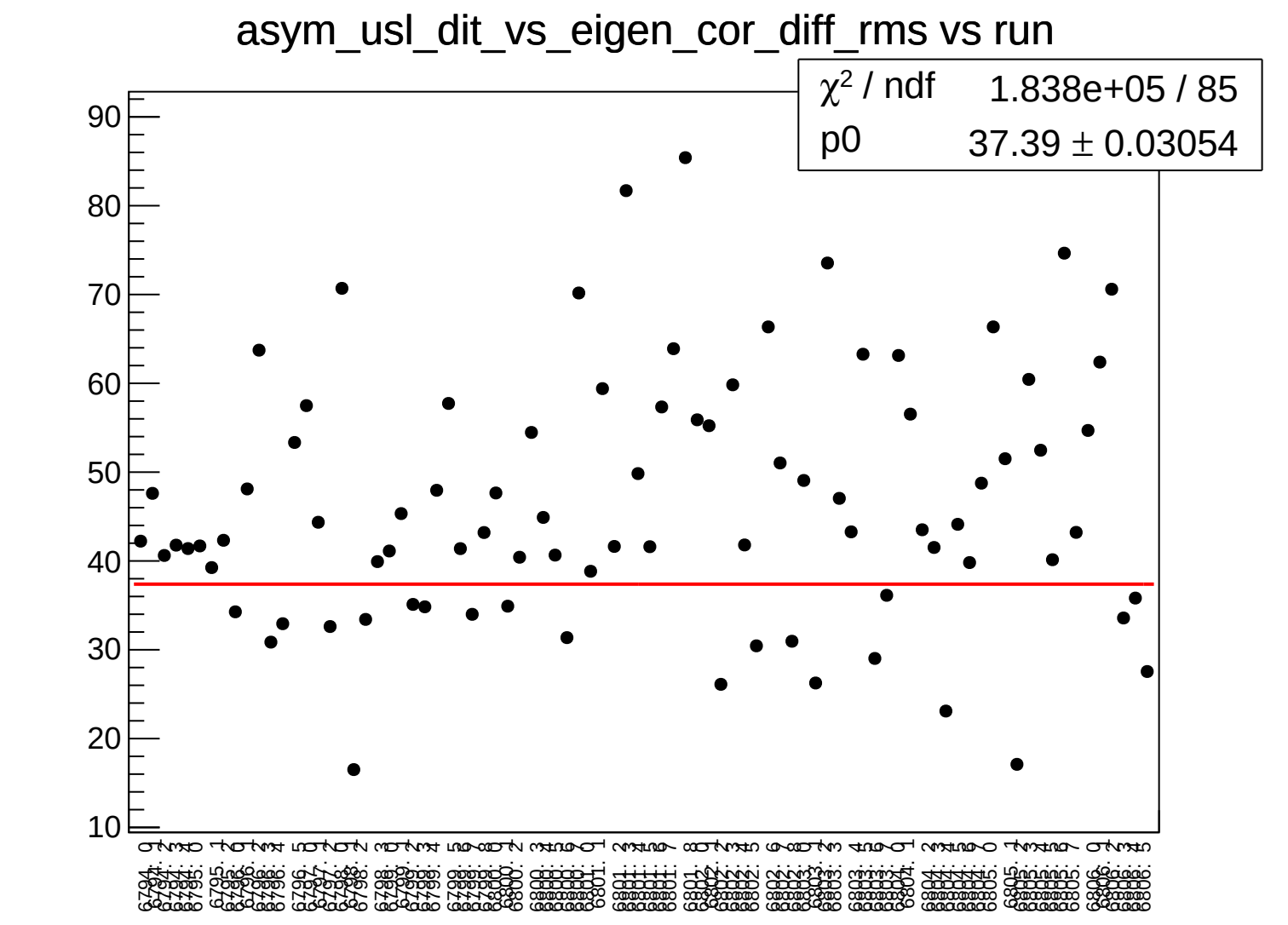

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 66.02 / 85
p0 0.07287 ± 0.04319
pull
Entries 86
Mean −14.86
Std Dev 0

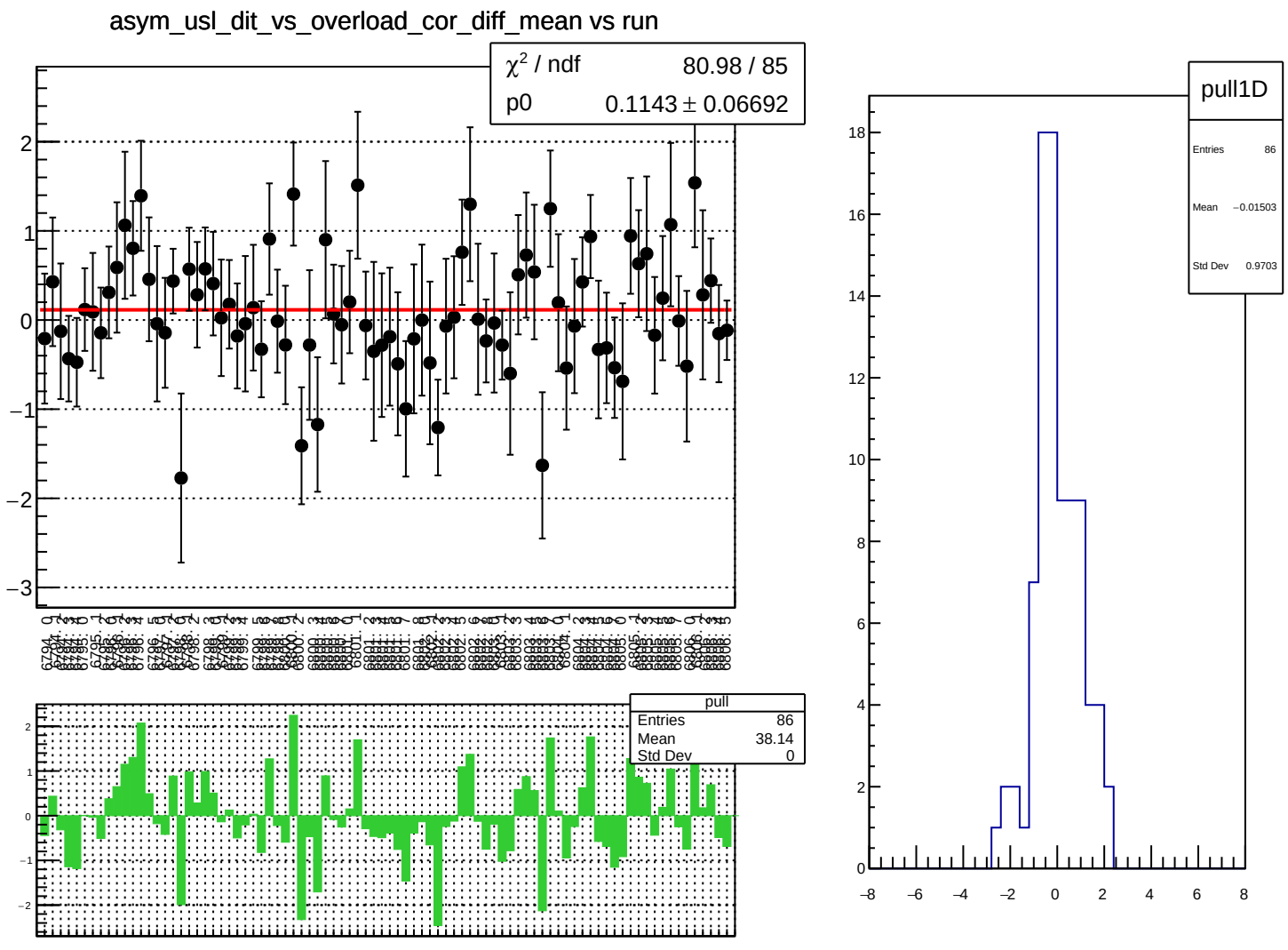

pull1D
Entries 86
Mean −0.03434
Std Dev 0.8755

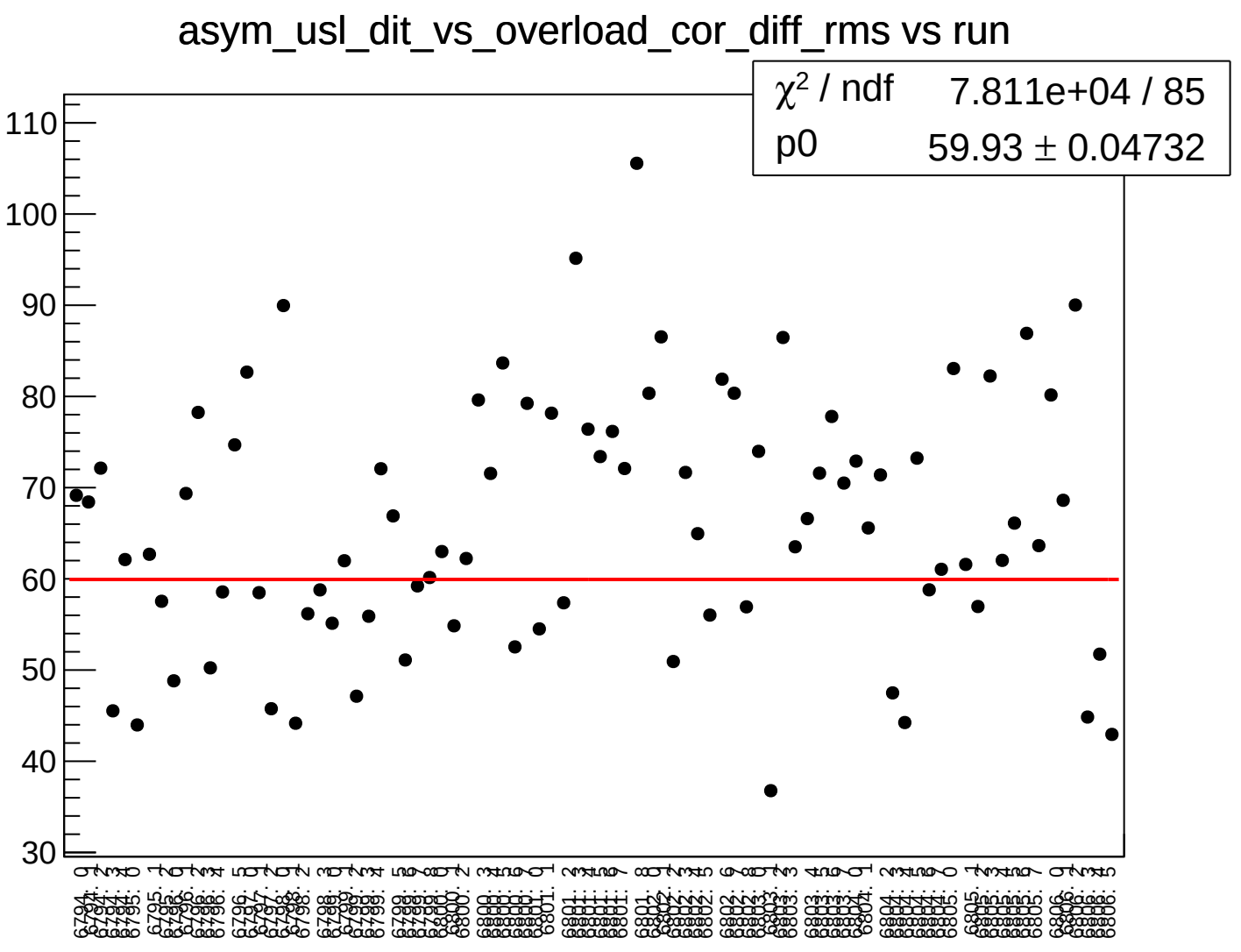

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 1.838e+05 / 85
p0 37.39 ± 0.03054
90
80
70
60
50
40
30
20
10

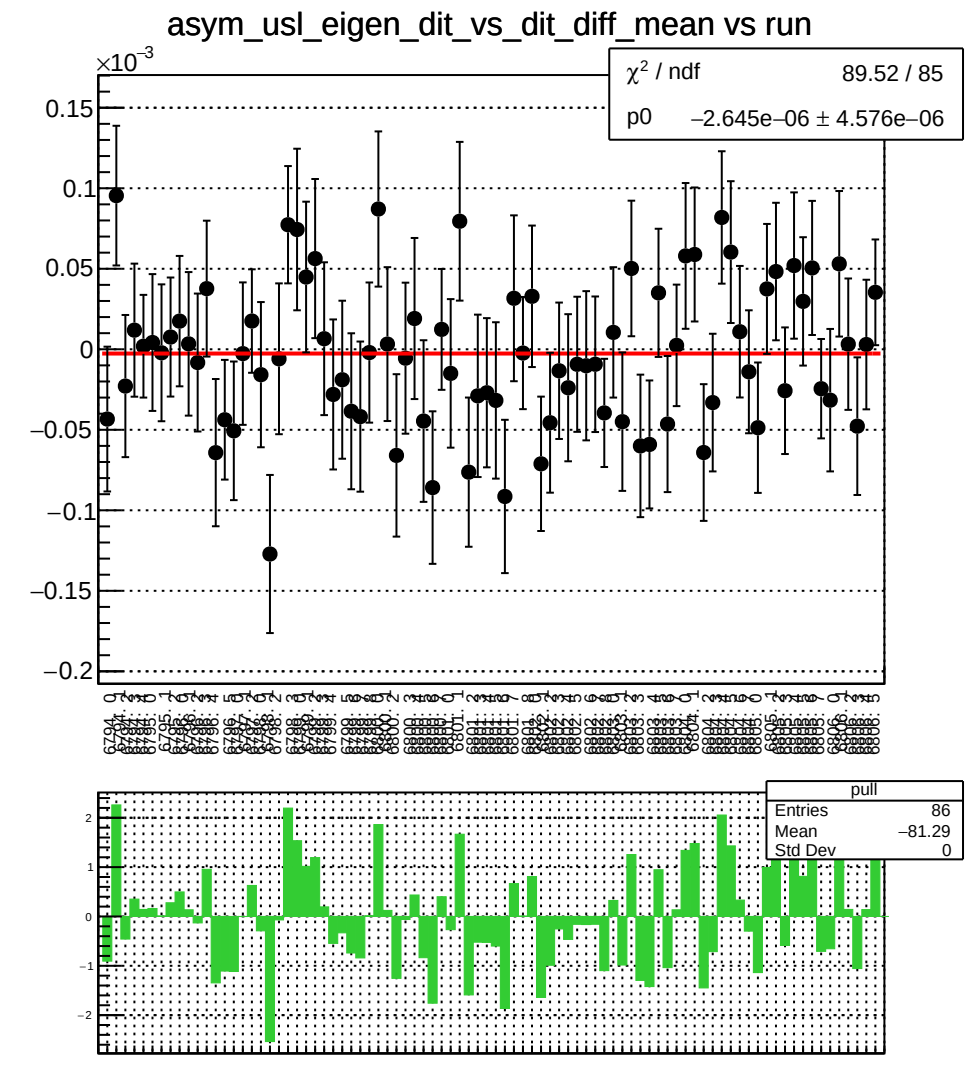

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.02 / 85
p0 0.07287 ± 0.04319
pull
Entries 86
Mean −14.86
Std Dev 0

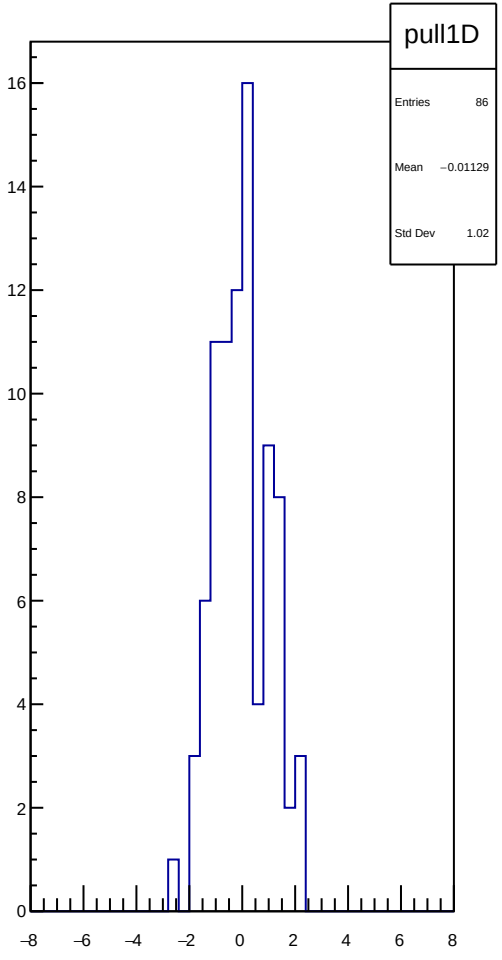

pull1D
Entries 86
Mean −0.03434
Std Dev 0.8755

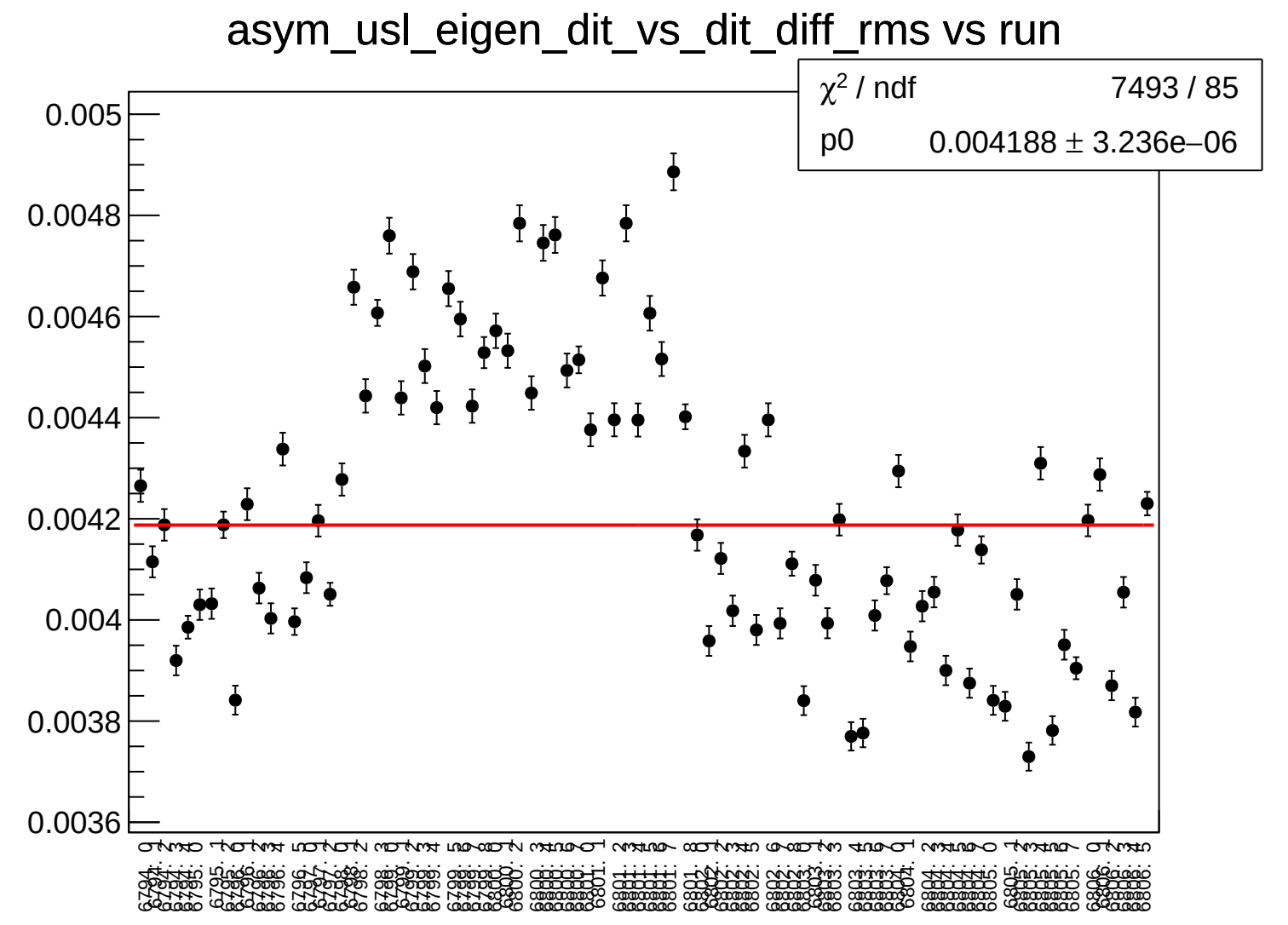

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.838e+05 / 85
p0 37.39 ± 0.03054
90
80
70
60
50
40
30
20
10

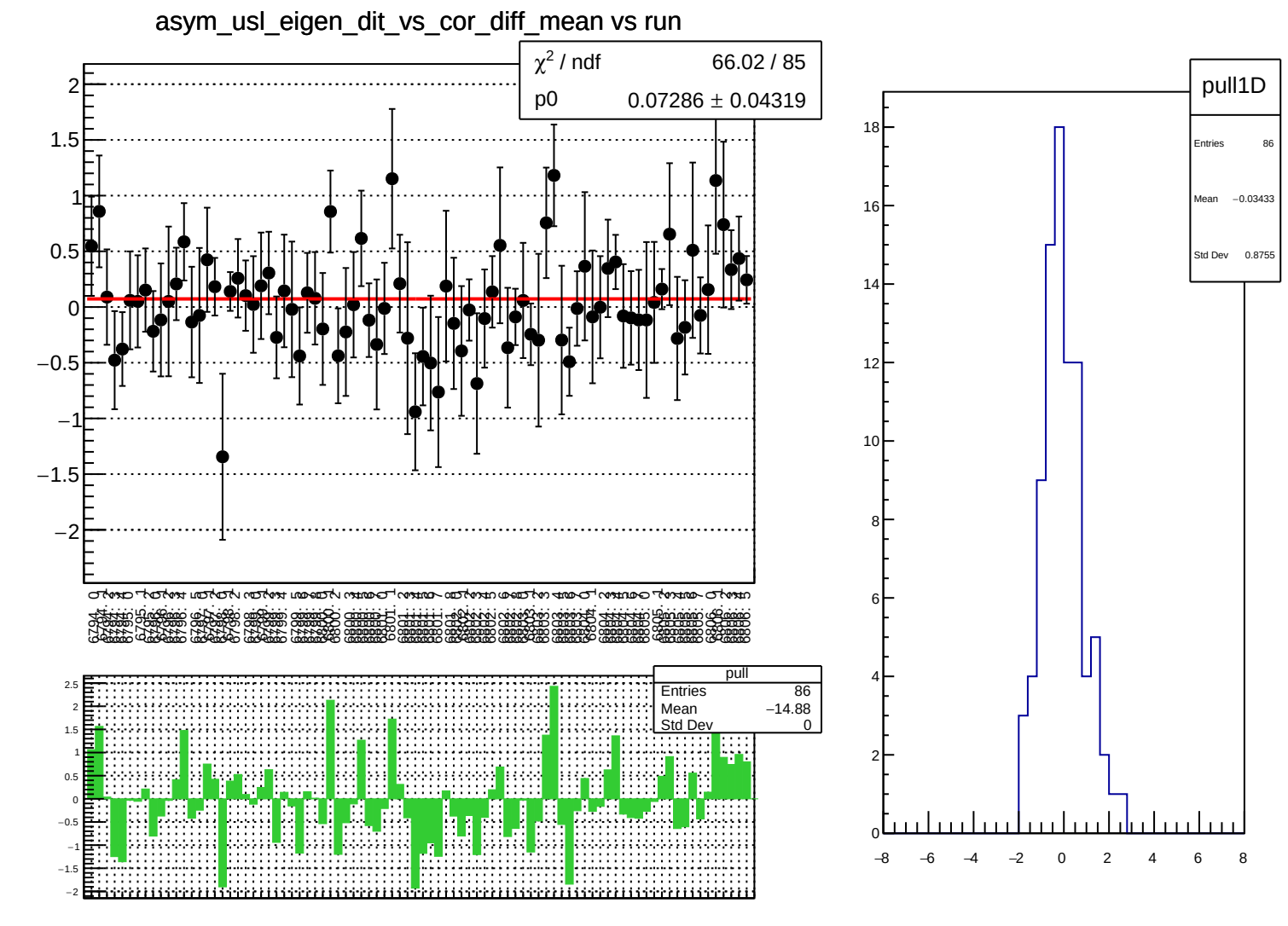

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.98 / 85
p0 0.1143 ± 0.06692
pull
Entries 86
Mean 38.14
Std Dev 0
pull1D
Entries 86
Mean −0.01503
Std Dev 0.9703

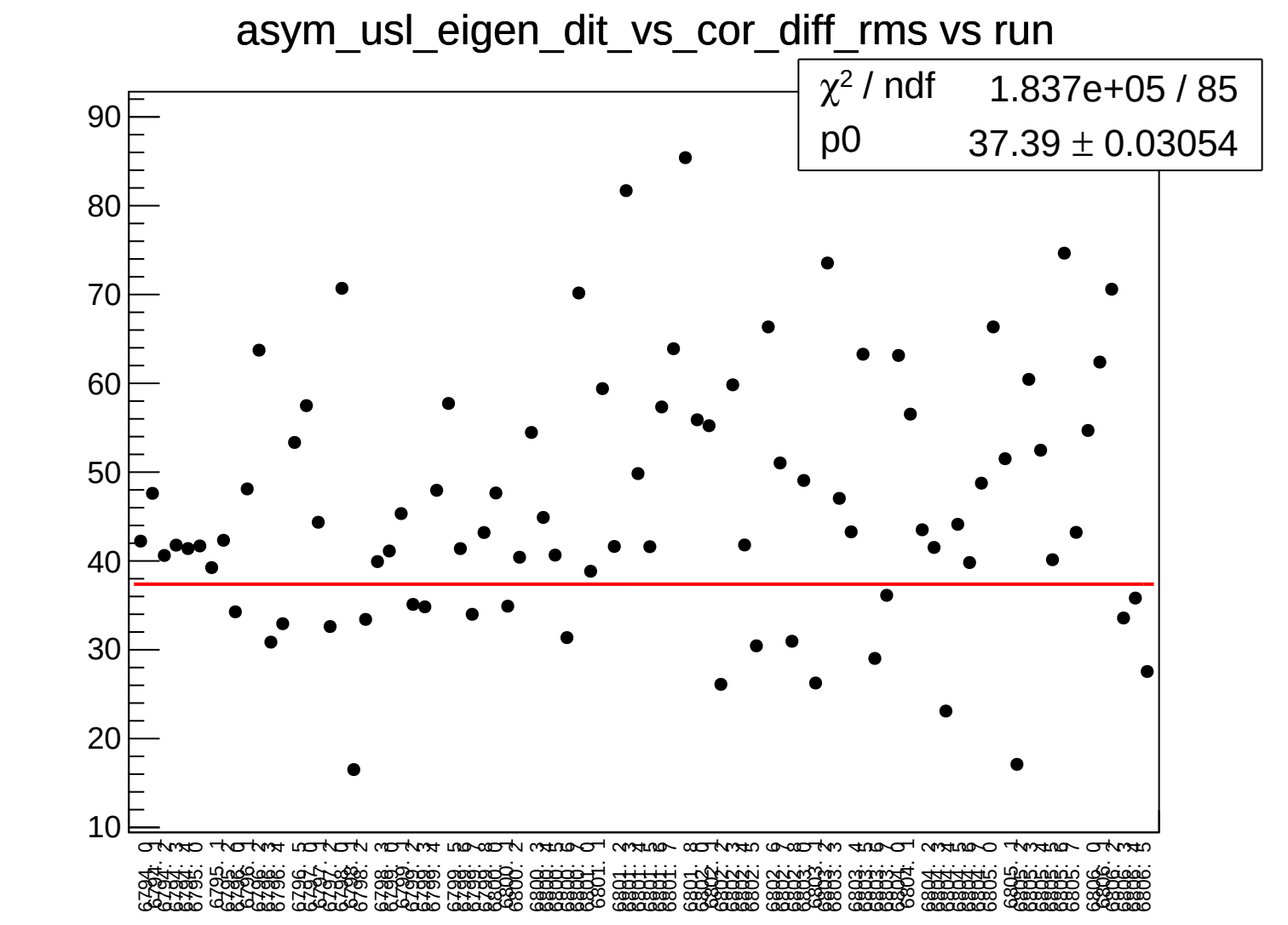

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.811e+04 / 85
p0 59.93 ± 0.04732
110
100
90
80
70
60
50
40
30

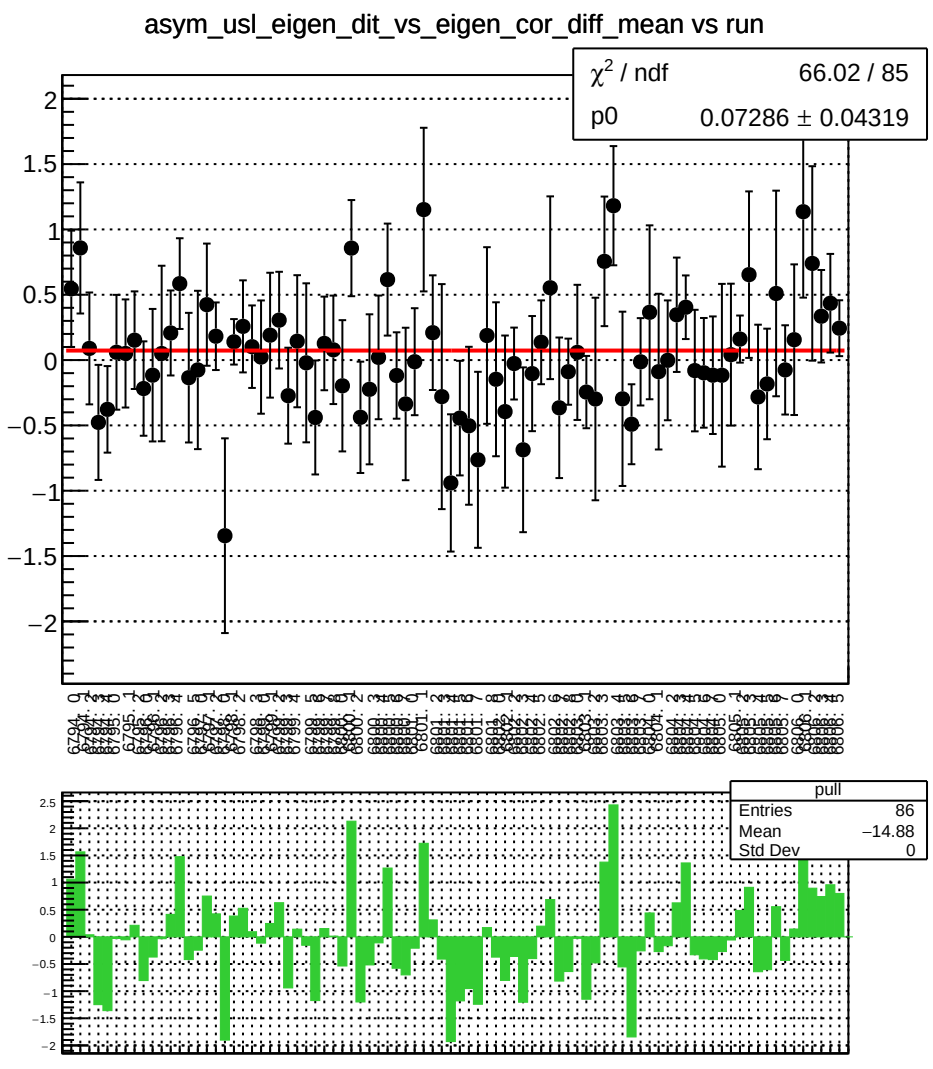

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.52 / 85
p0 −2.645e−06 ± 4.576e−06
pull
Entries 86
Mean −81.29
Std Dev 0

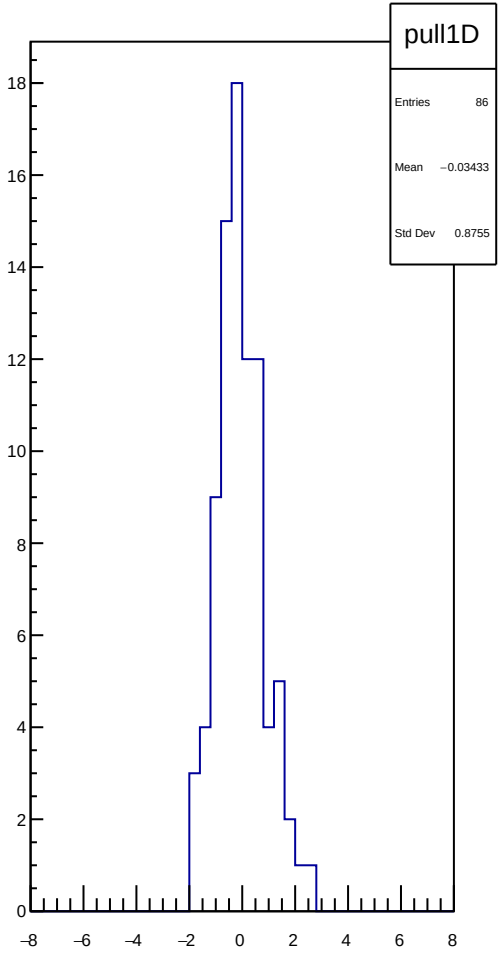

pull1D
Entries 86
Mean −0.01129
Std Dev 1.02

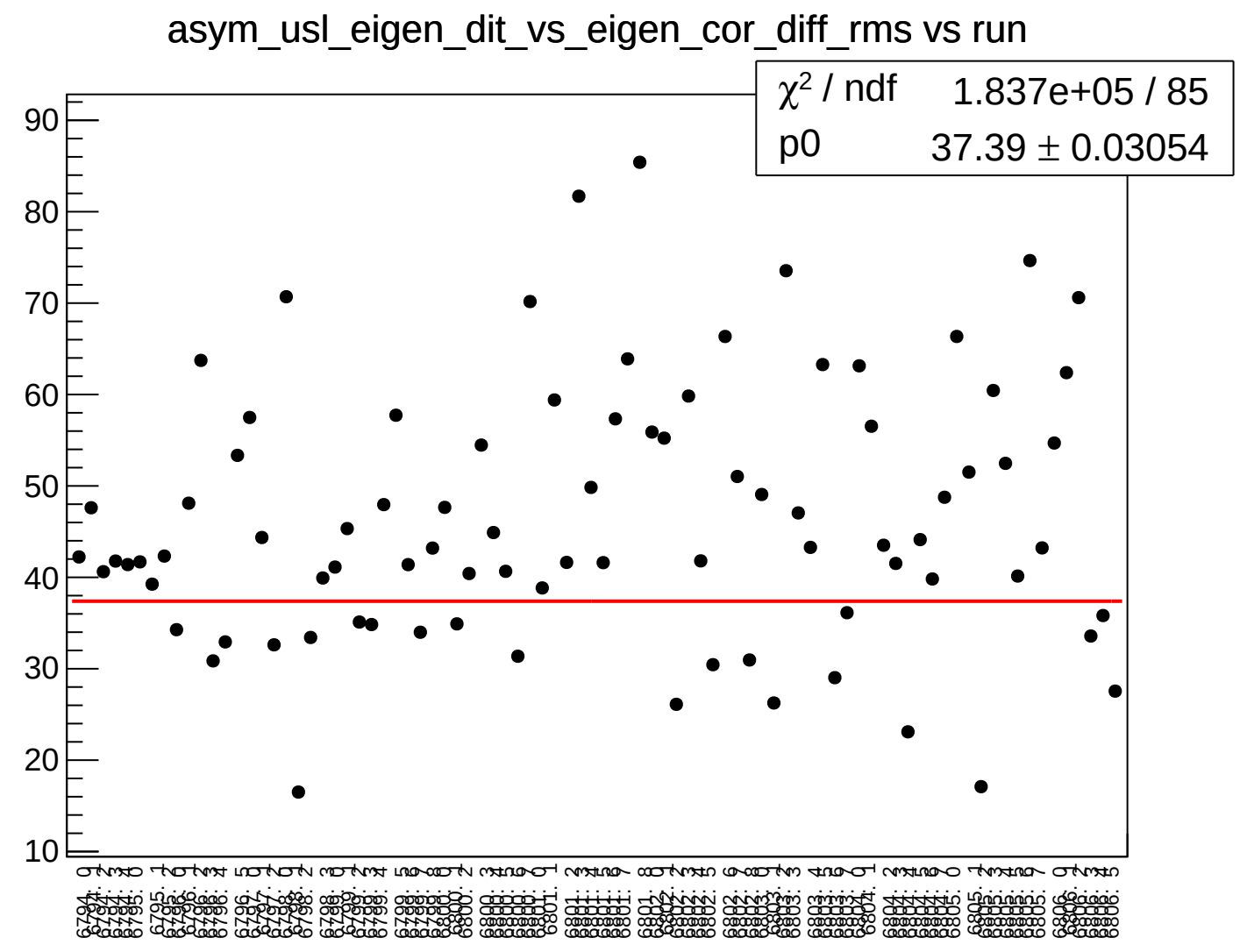

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7493 / 85
p0 0.004188 ± 3.236e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036


asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 66.02 / 85
p0 0.07286 ± 0.04319
pull
Entries 86
Mean −14.88
Std Dev 0
pull1D
Entries 86
Mean −0.03433
Std Dev 0.8755

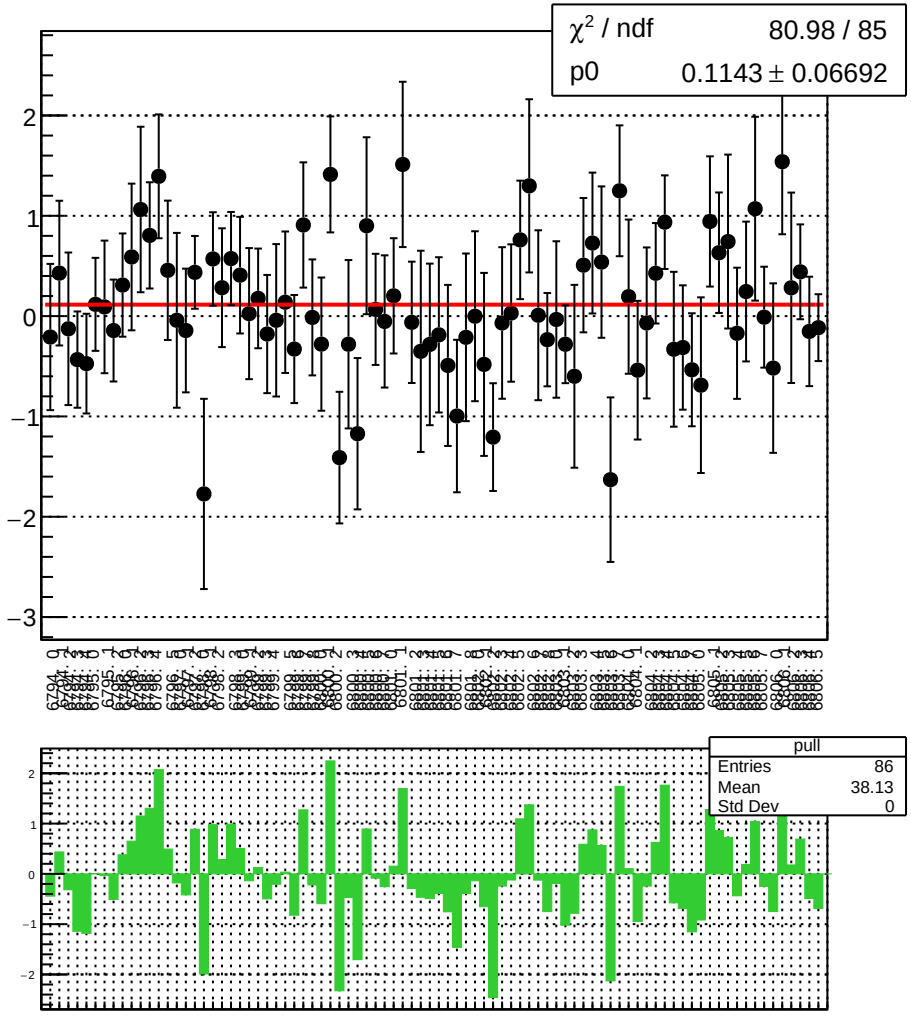

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.837e+05 / 85
p0 37.39 ± 0.03054
90
80
70
60
50
40
30
20
10

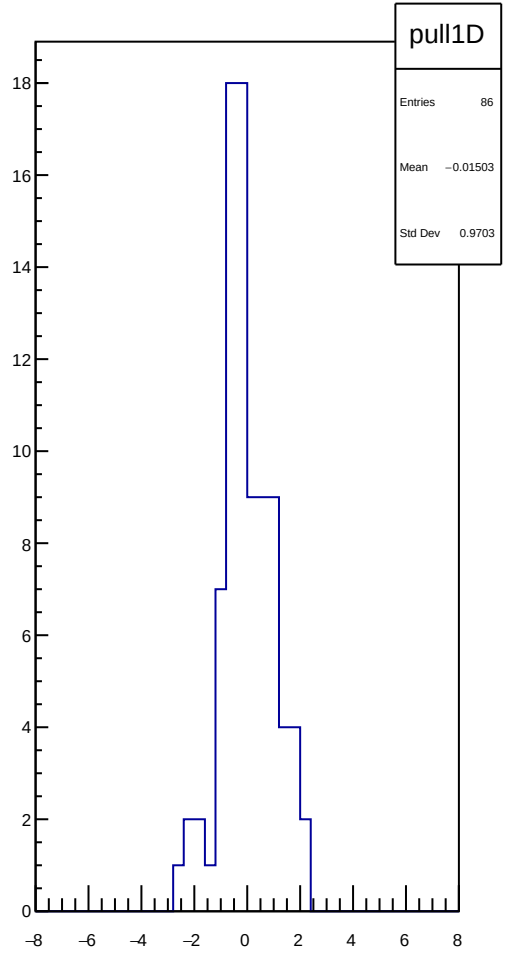

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 66.02 / 85
p0 0.07286 ± 0.04319
pull
Entries 86
Mean −14.88
Std Dev 0

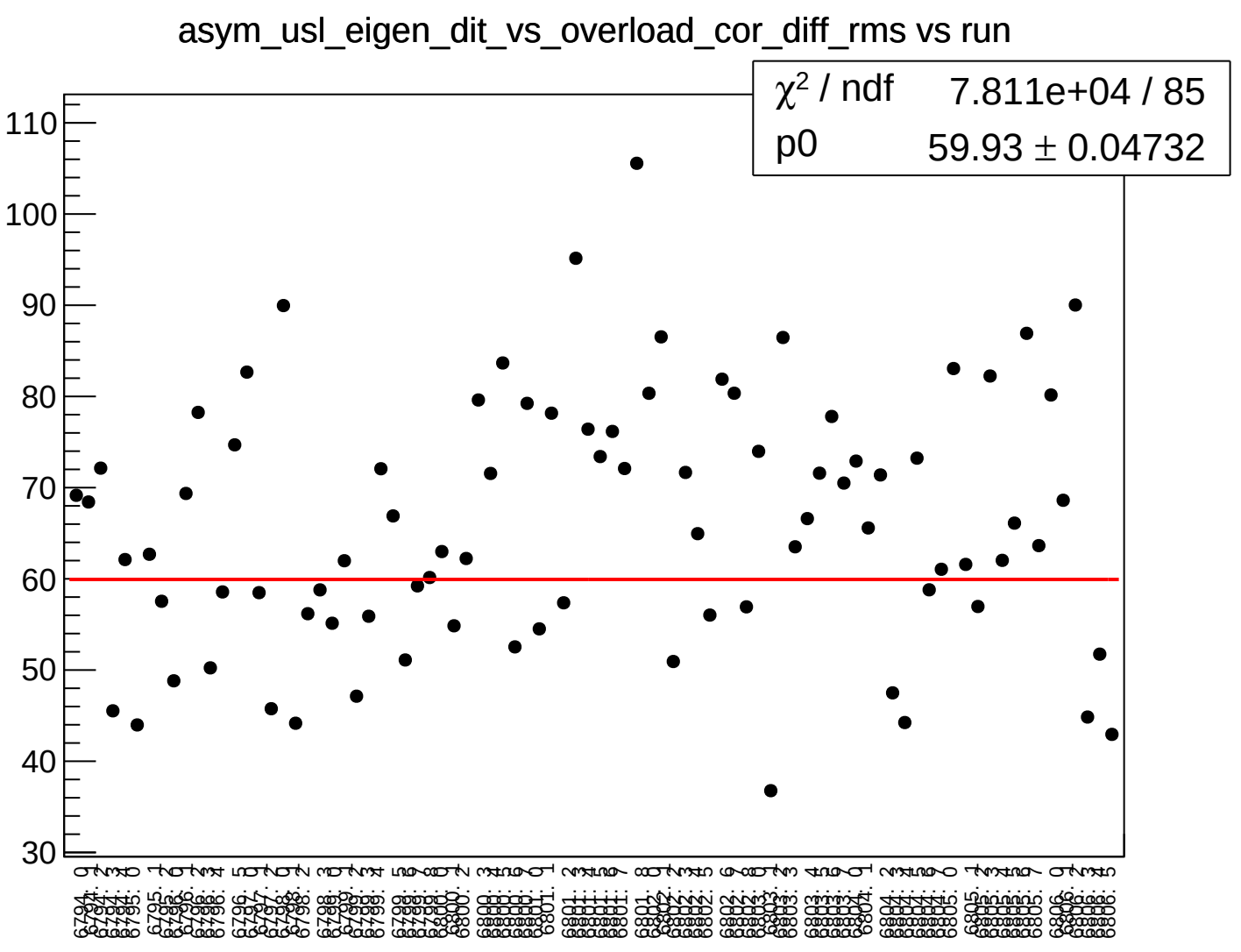

pull1D
Entries 86
Mean −0.03433
Std Dev 0.8755

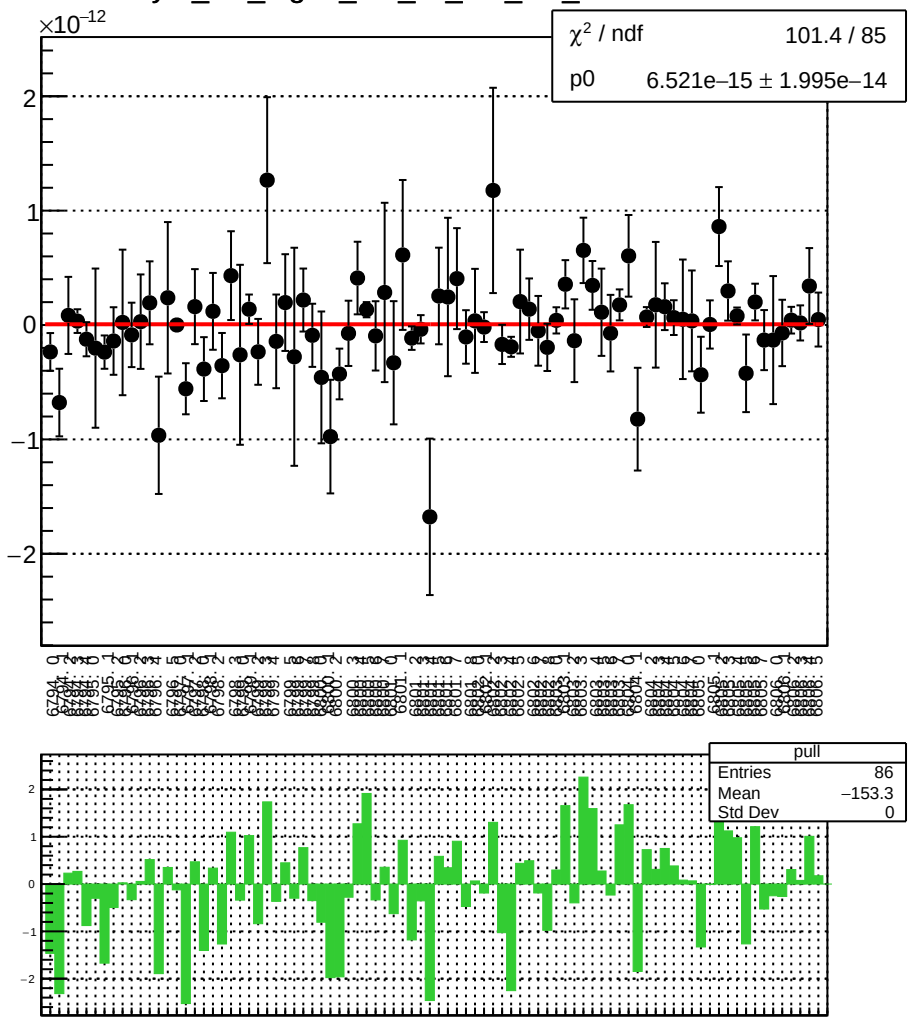

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.837e+05 / 85
p0 37.39 ± 0.03054
90
80
70
60
50
40
30
20
10

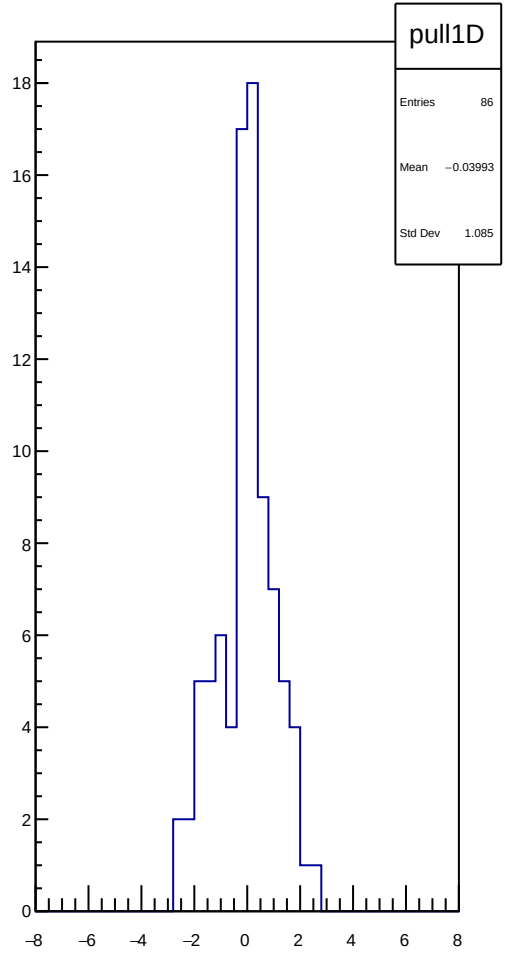
asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run

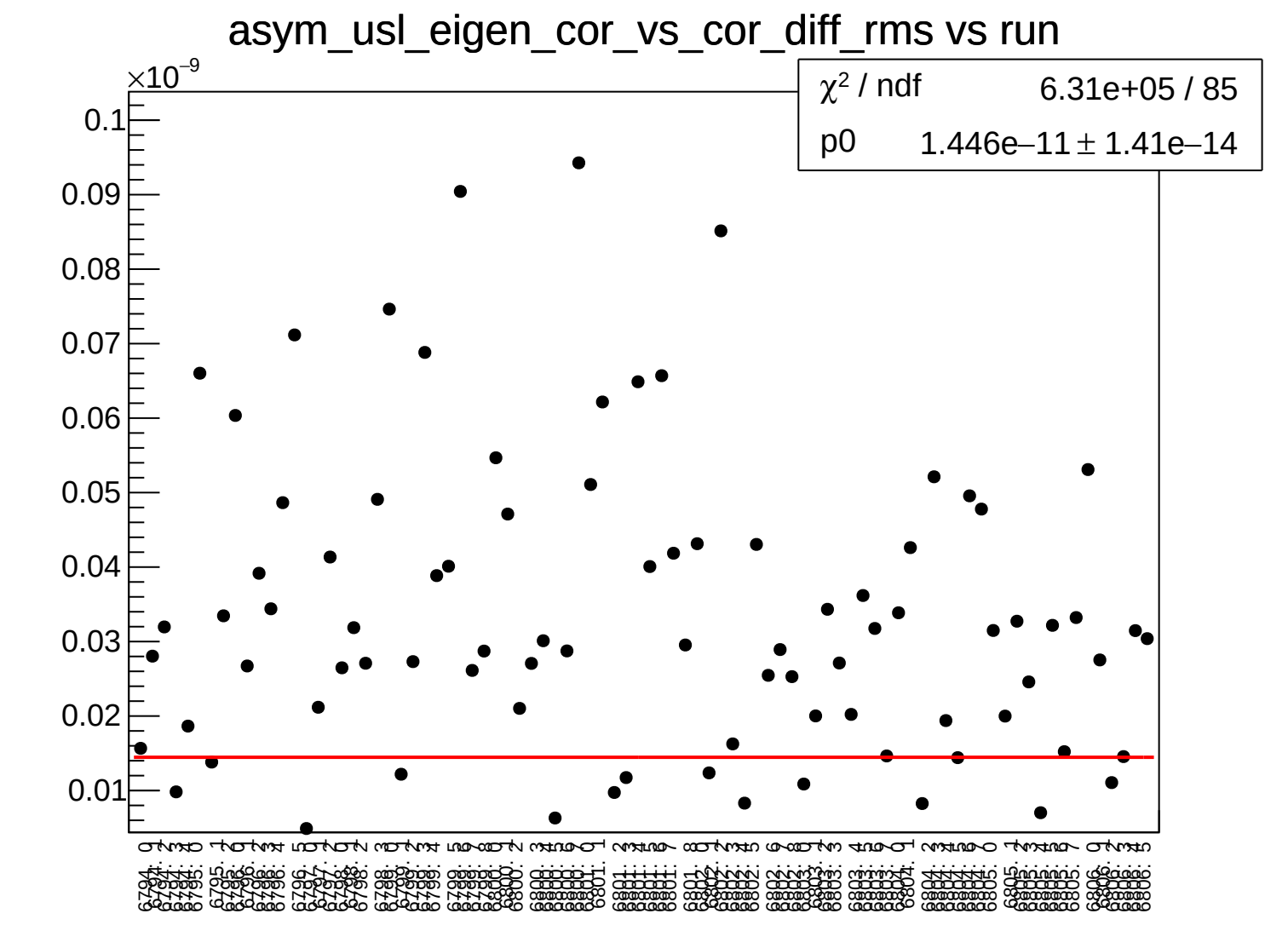


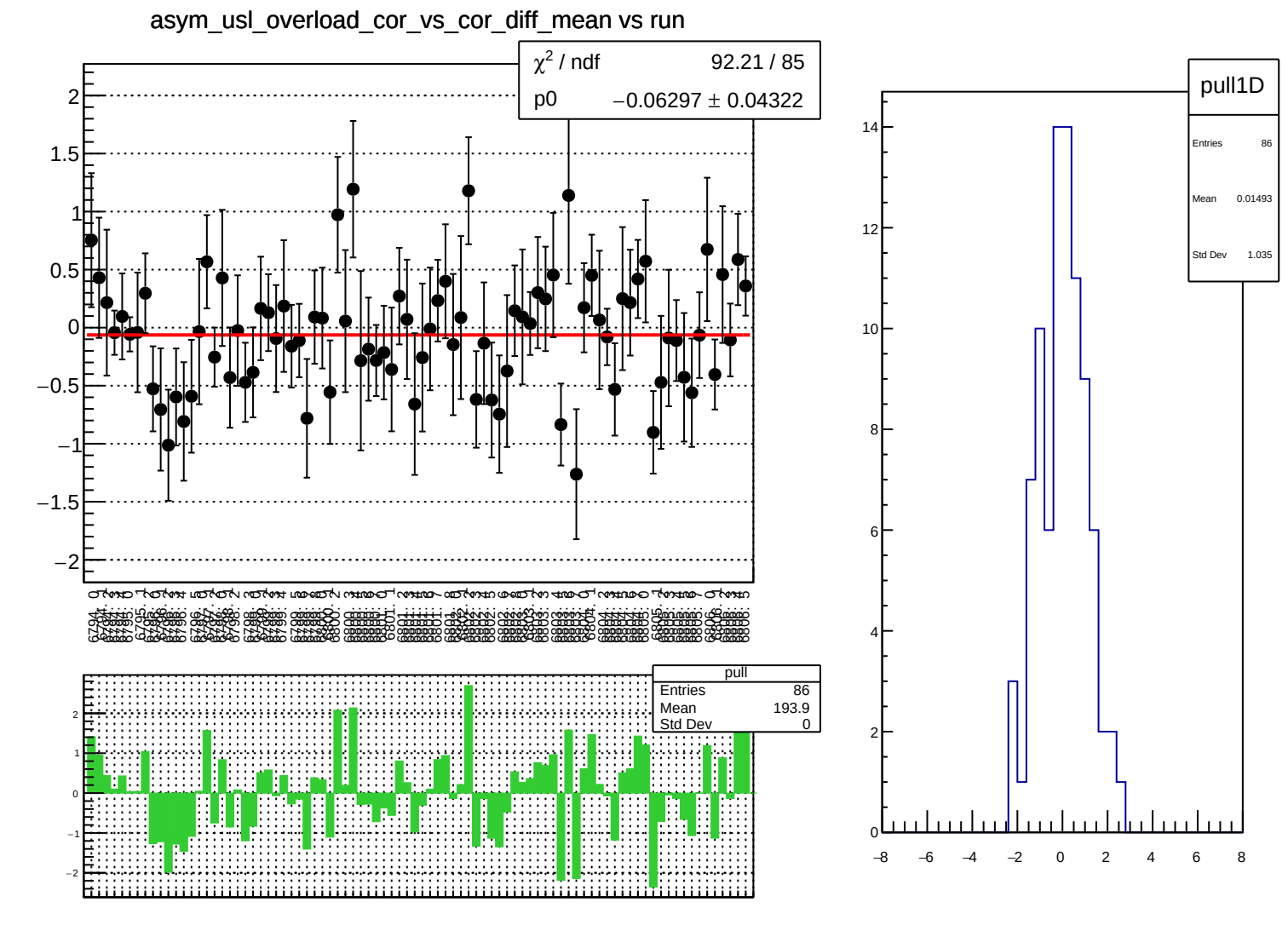


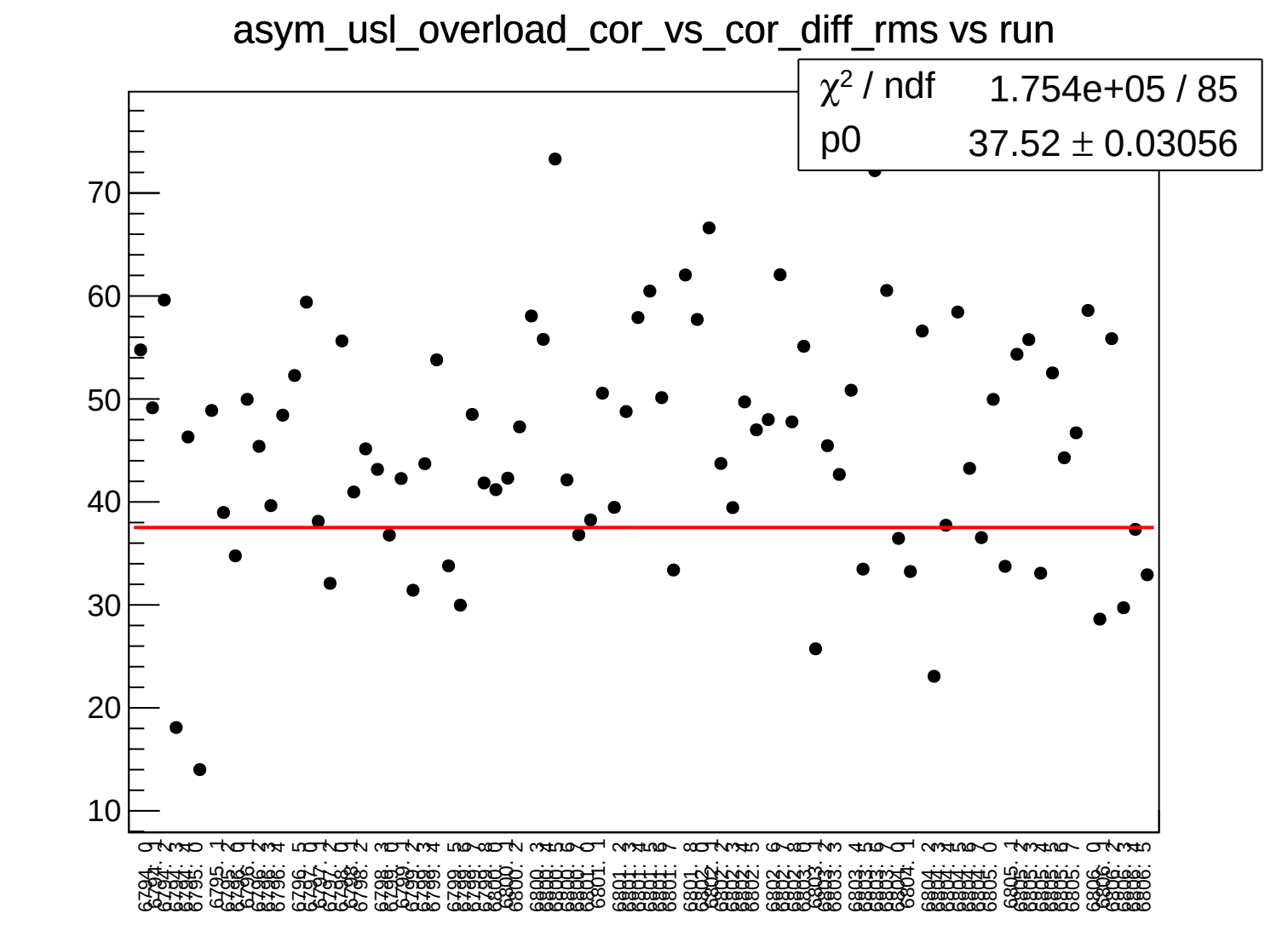

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.811e+04 / 85
p0 59.93 ± 0.04732
110
100
90
80
70
60
50
40
30

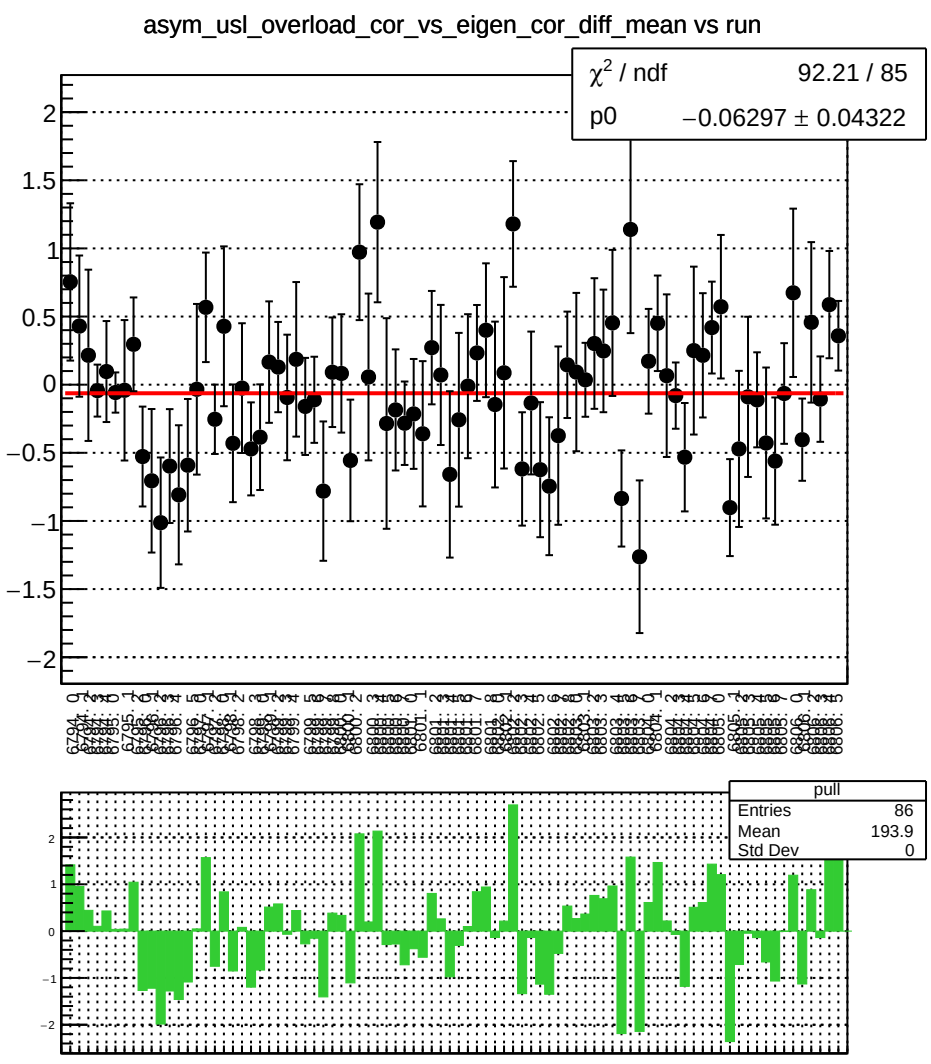

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.4 / 85
p0 6.521e−15 ± 1.995e−14
pull
Entries 86
Mean −153.3
Std Dev 0

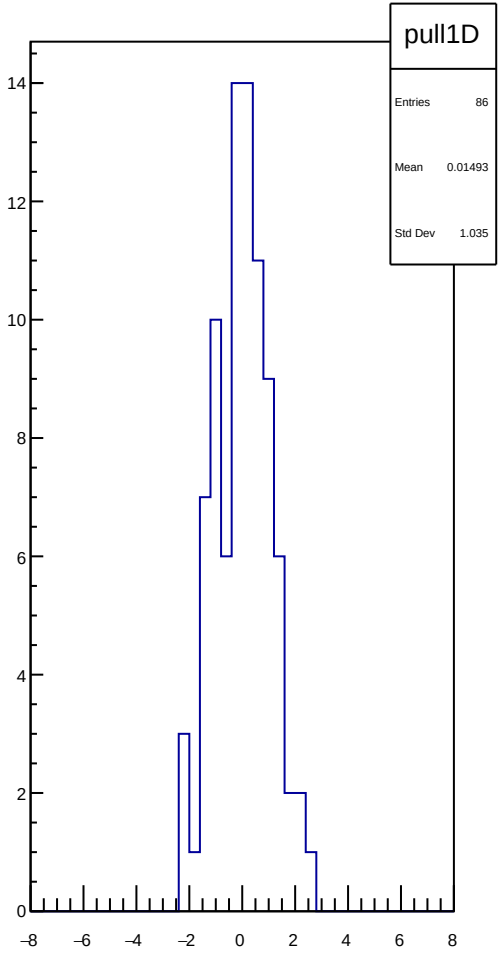

pull1D
Entries 86
Mean −0.03993
Std Dev 1.085

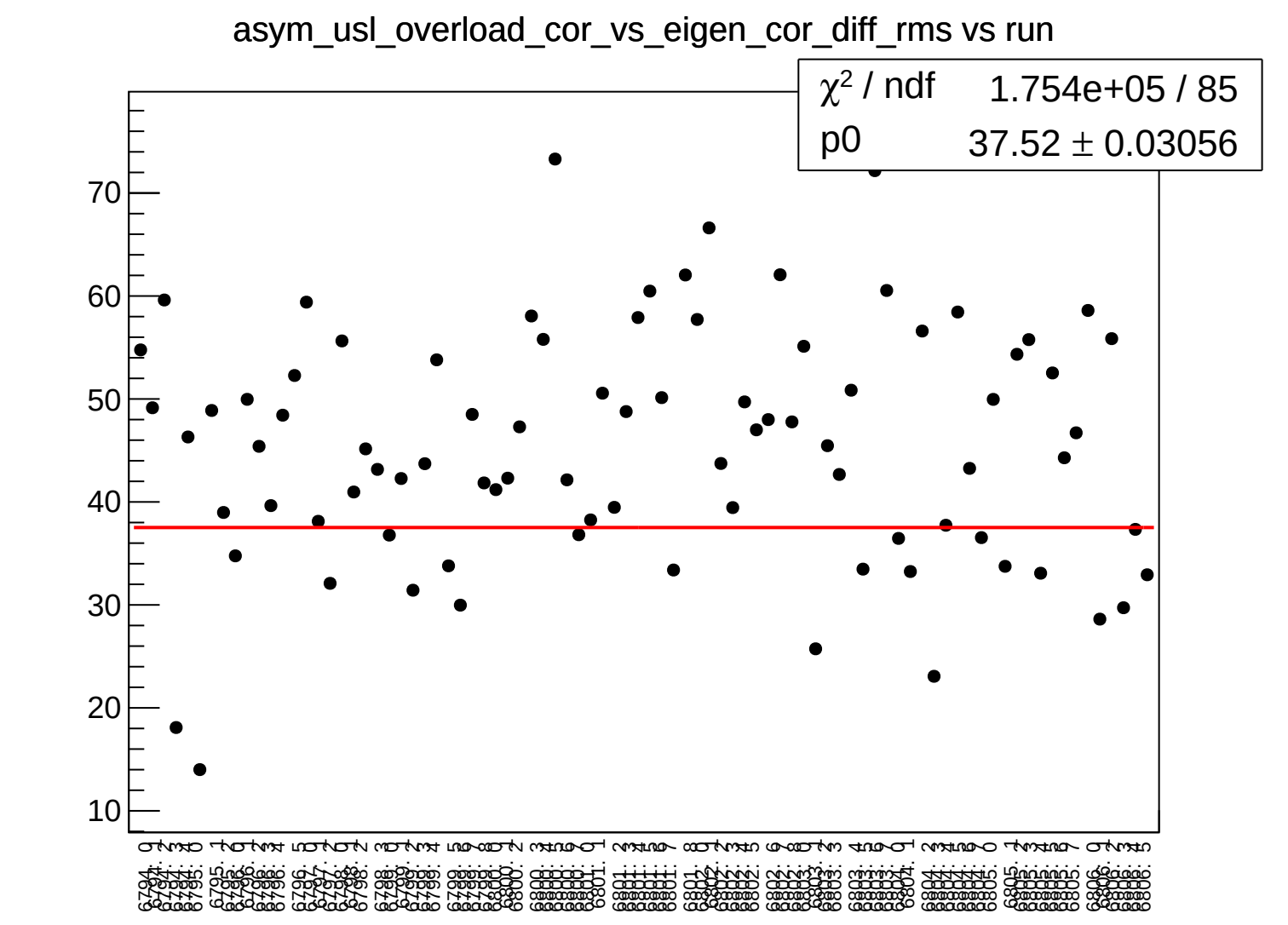

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.31e+05 / 85
p0 1.446e−11 ± 1.41e−14
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

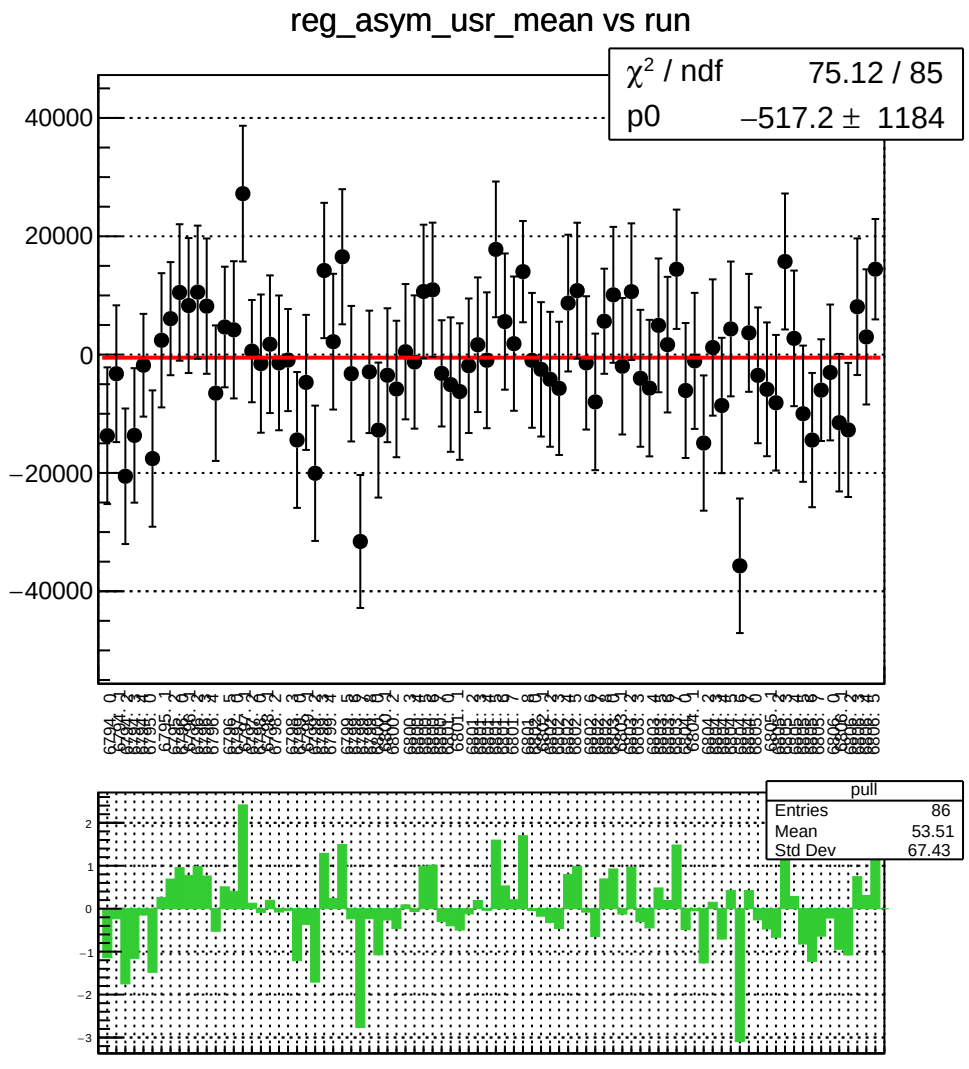

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 92.21 / 85
p0 −0.06297 ± 0.04322
pull
Entries 86
Mean 193.9
Std Dev 0
pull1D
Entries 86
Mean 0.01493
Std Dev 1.035

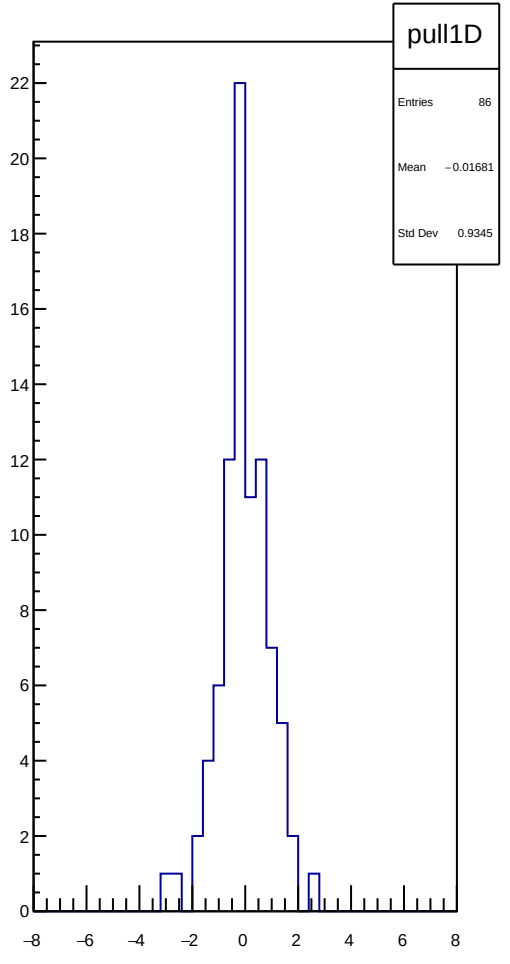

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.754e+05 / 85
p0 37.52 ± 0.03056
70
60
50
40
30
20
10

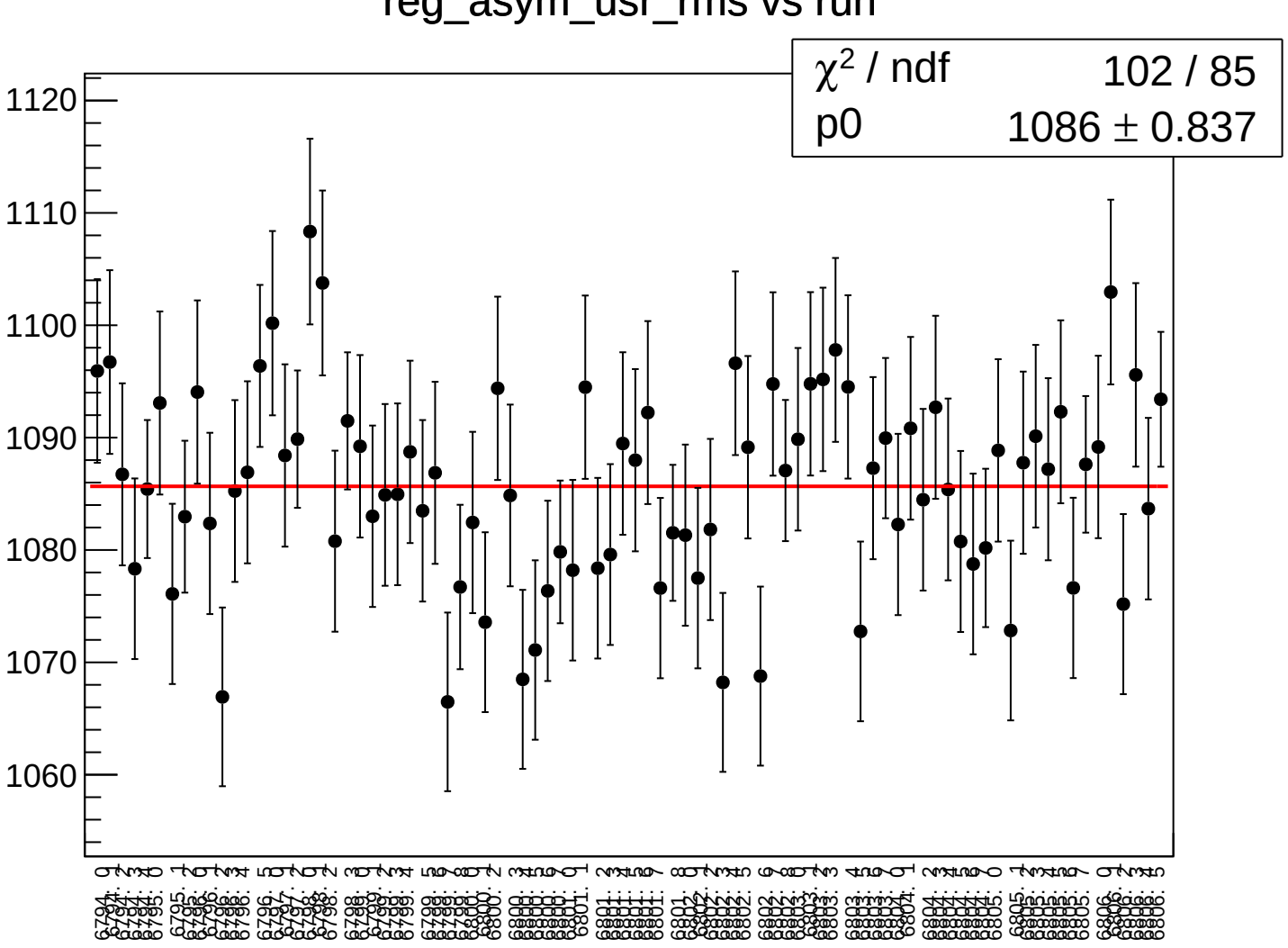

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.21 / 85
p0 −0.06297 ± 0.04322
pull
Entries 86
Mean 193.9
Std Dev 0

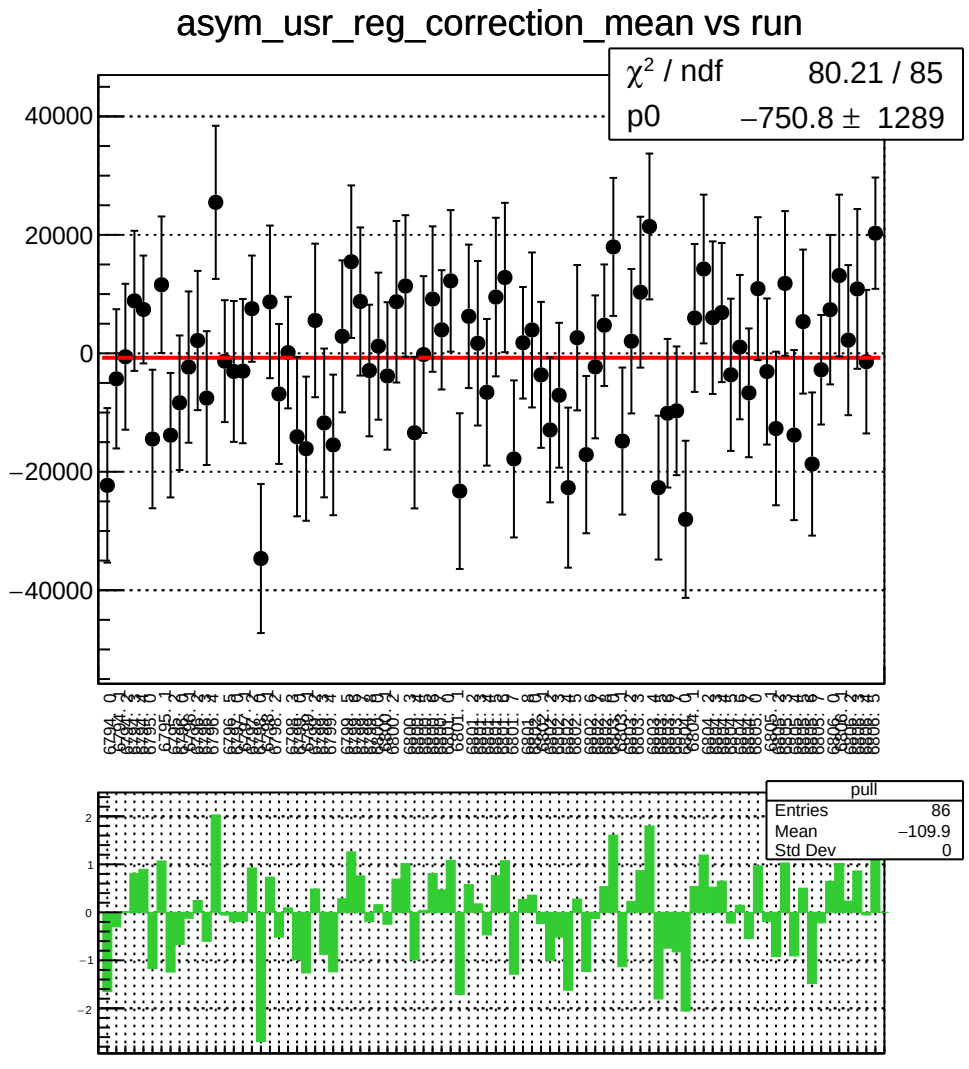

pull1D
Entries 86
Mean 0.01493
Std Dev 1.035

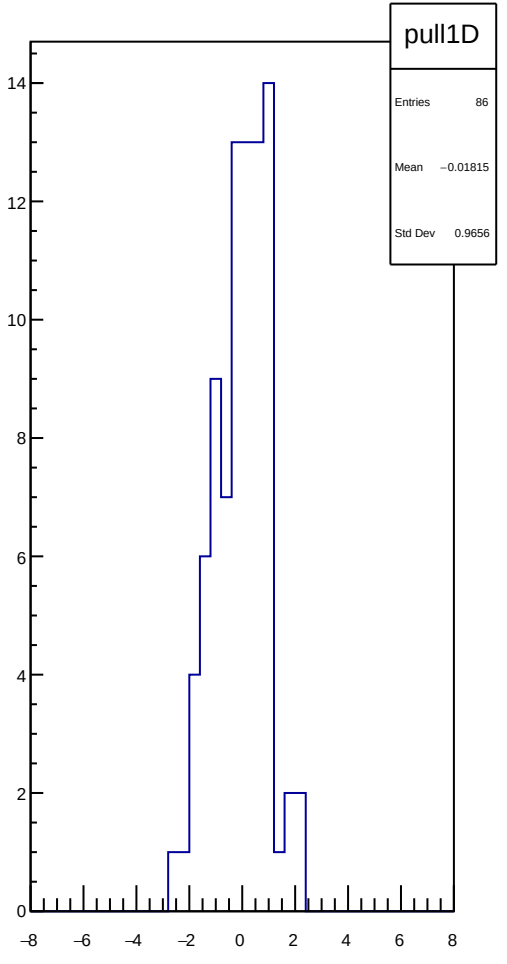

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.754e+05 / 85
p0 37.52 ± 0.03056
70
60
50
40
30
20
10

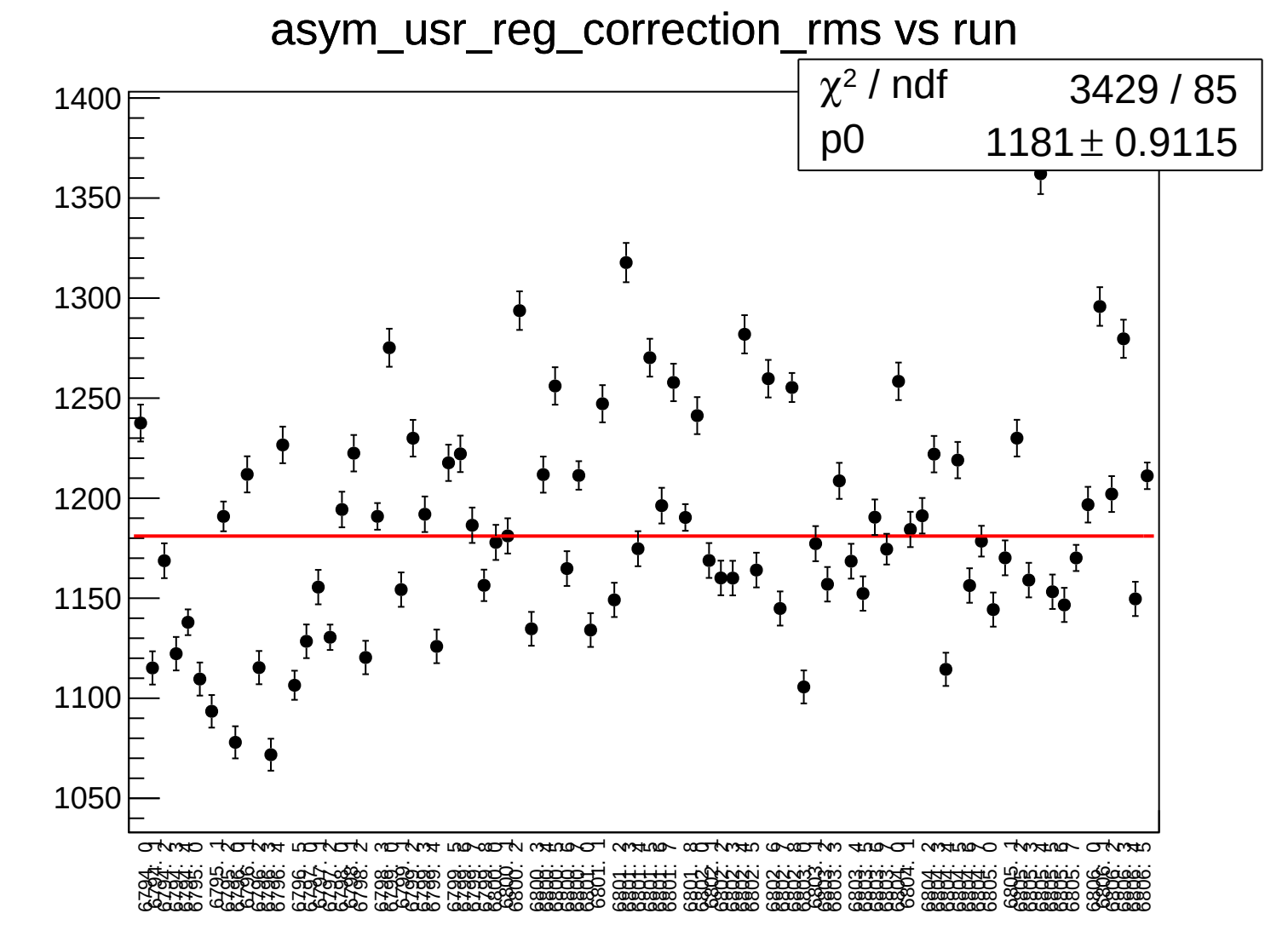

reg_asym_usr_mean vs run
χ² / ndf 75.12 / 85
p0 −517.2 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.51
Std Dev 67.43
2
1
0
−1
−2
−3

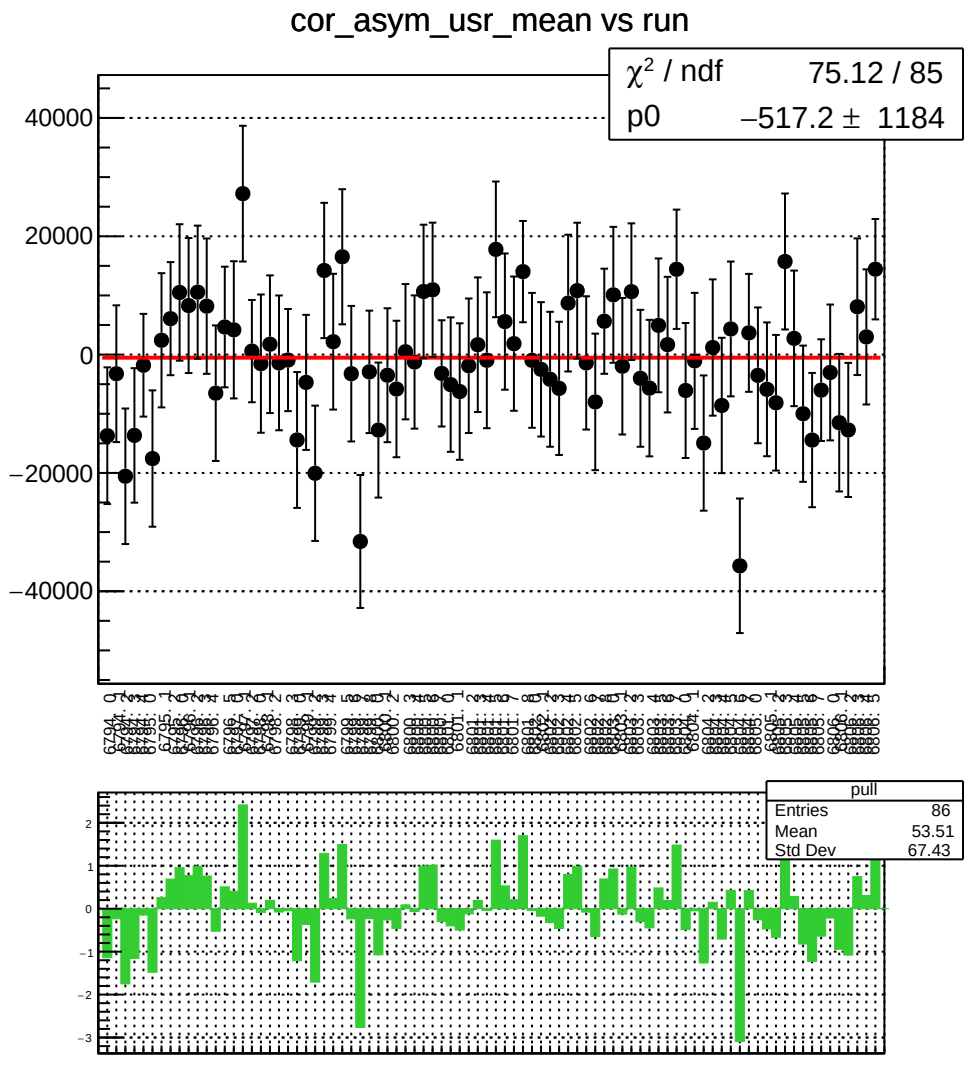

pull1D
Entries 86
Mean −0.01681
Std Dev 0.9345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

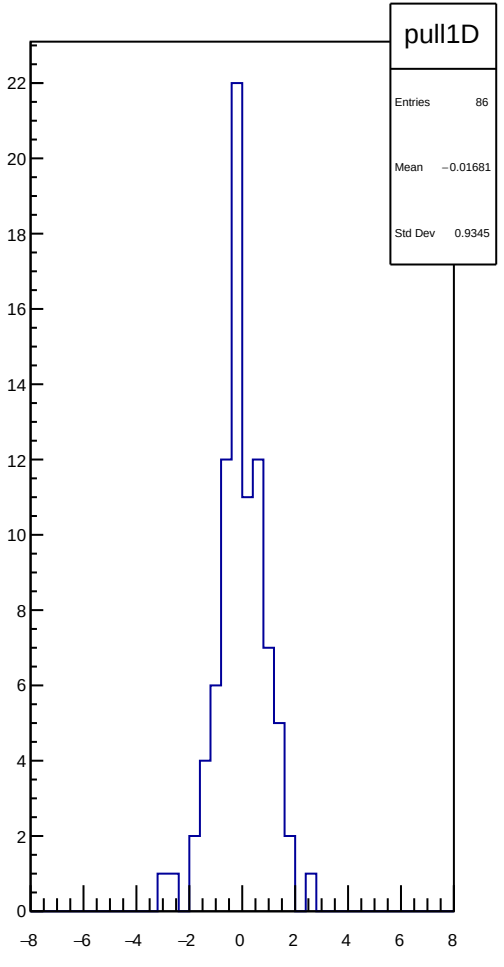

reg_asym_usr_rms vs run
χ² / ndf 102 / 85
p0 1086 ± 0.837
1120
1110
1100
1090
1080
1070
1060

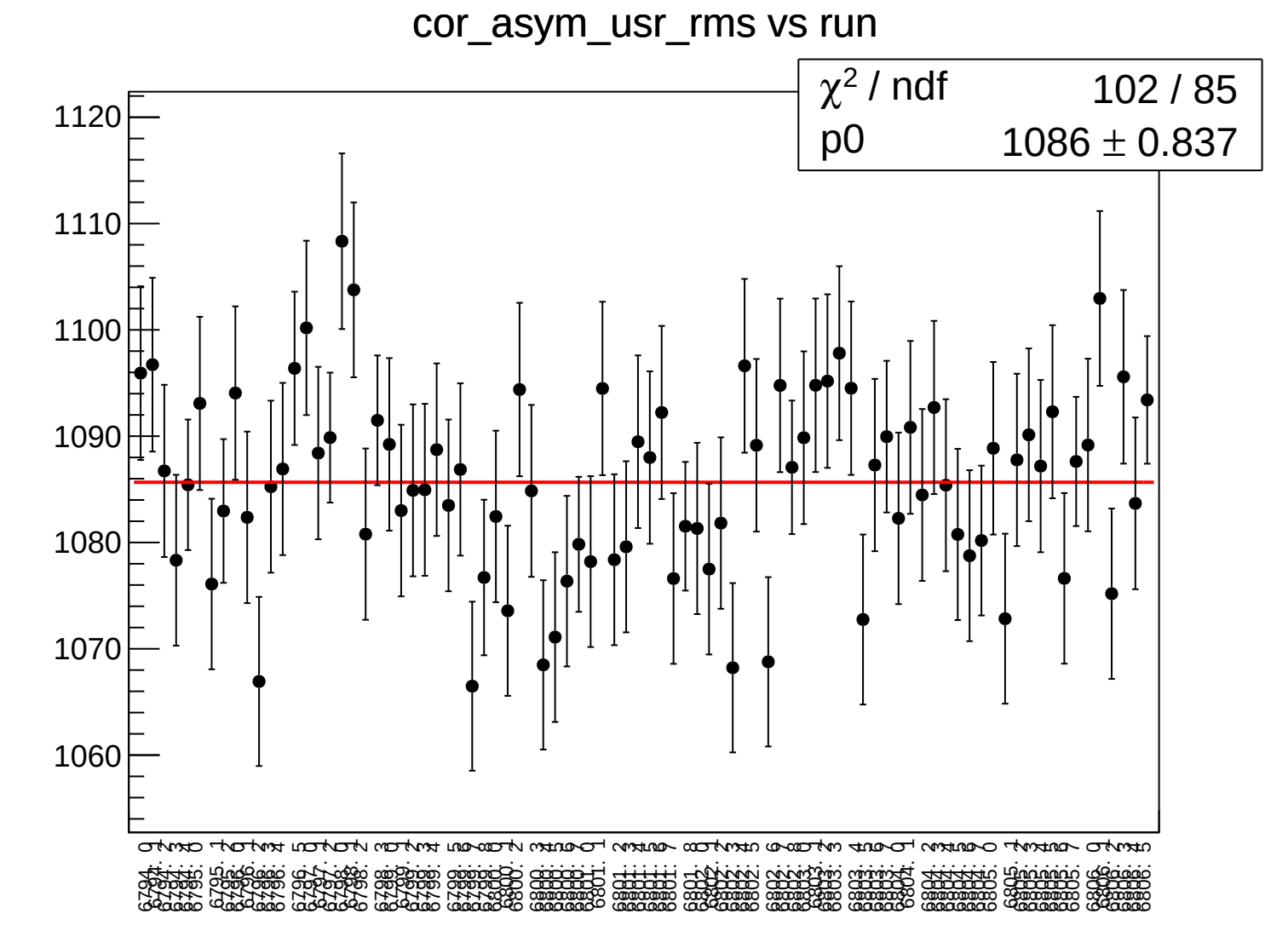

asym_usr_reg_correction_mean vs run
χ² / ndf 80.21 / 85
p0 −750.8 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −109.9
Std Dev 0
2
1
0
−1
−2

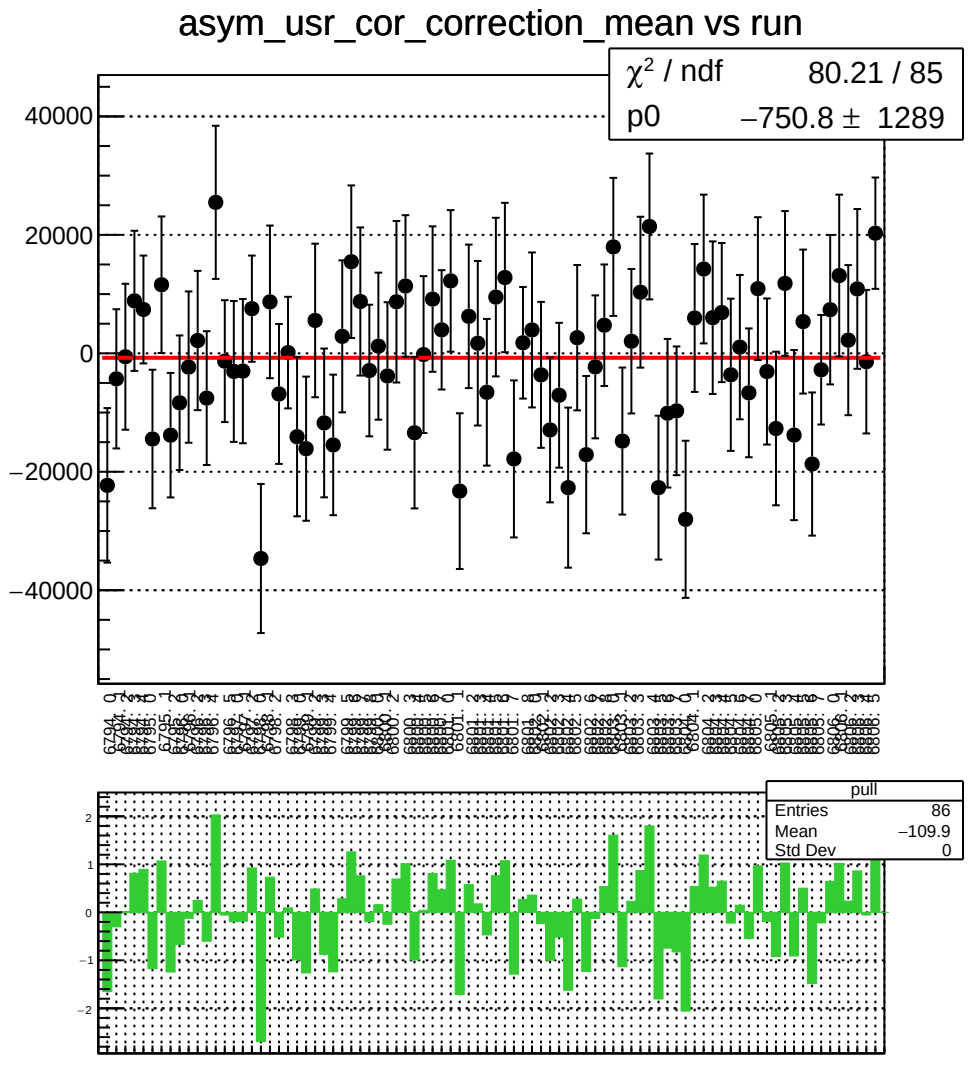

pull1D
Entries 86
Mean −0.01815
Std Dev 0.9656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

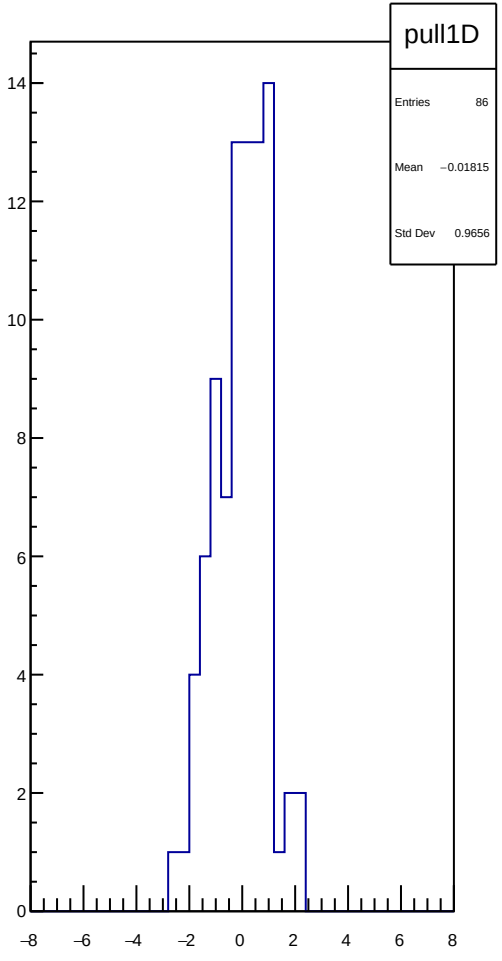

asym_usr_reg_correction_rms vs run
χ² / ndf 3429 / 85
p0 1181 ± 0.9115
1400
1350
1300
1250
1200
1150
1100
1050

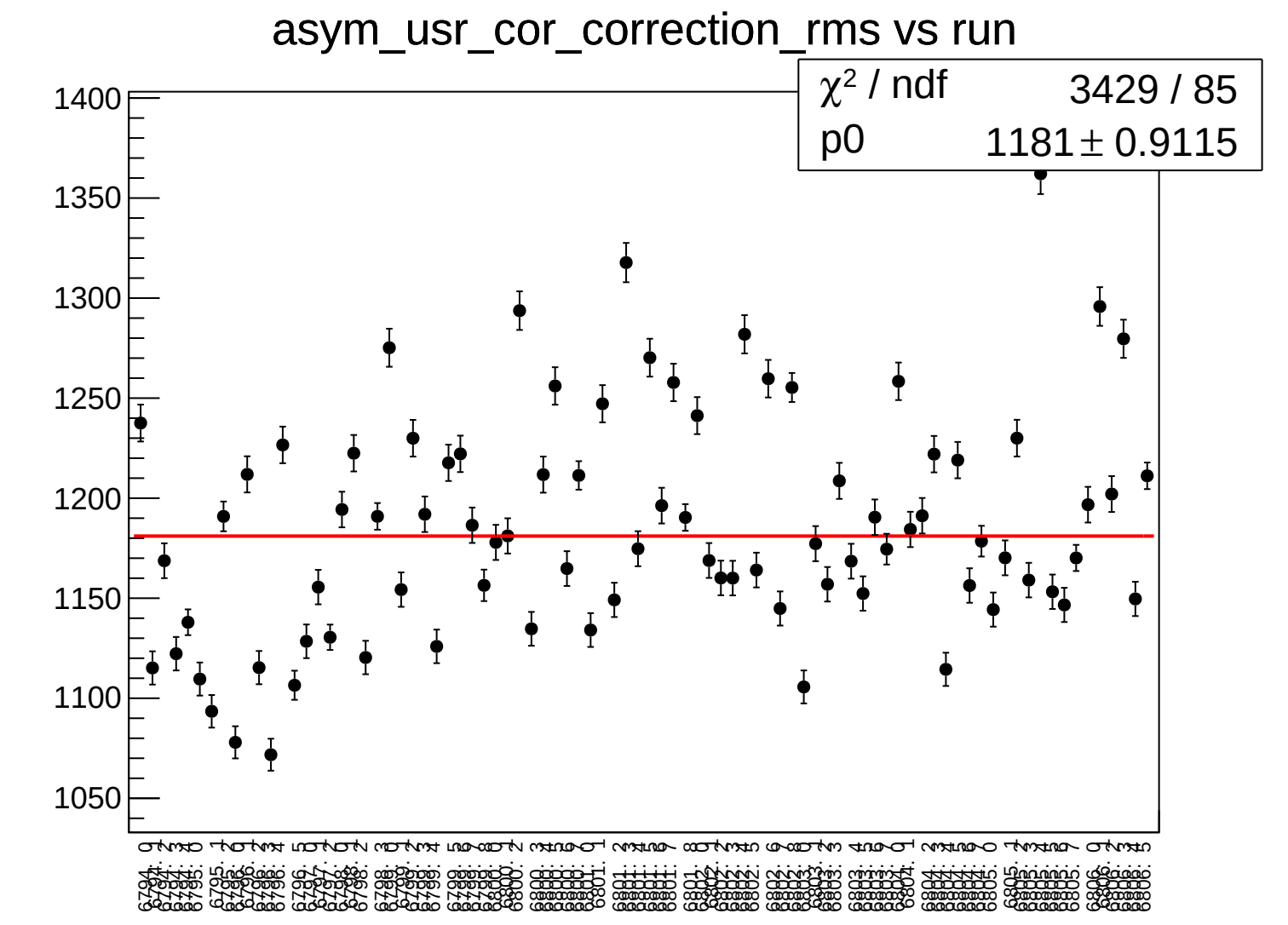

cor_asym_usr_mean vs run
χ² / ndf 75.12 / 85
p0 −517.2 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.51
Std Dev 67.43
2
1
0
−1
−2
−3

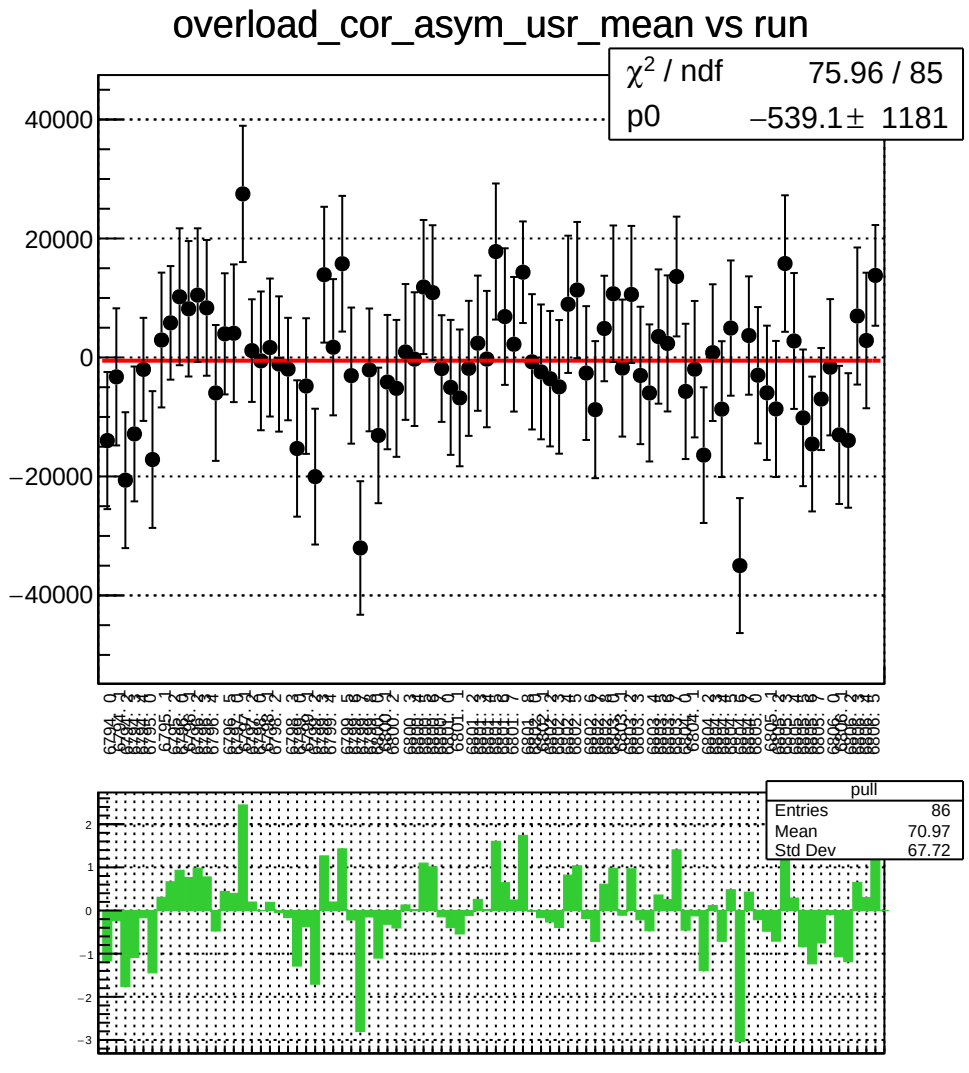

pull1D
Entries 86
Mean −0.01681
Std Dev 0.9345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

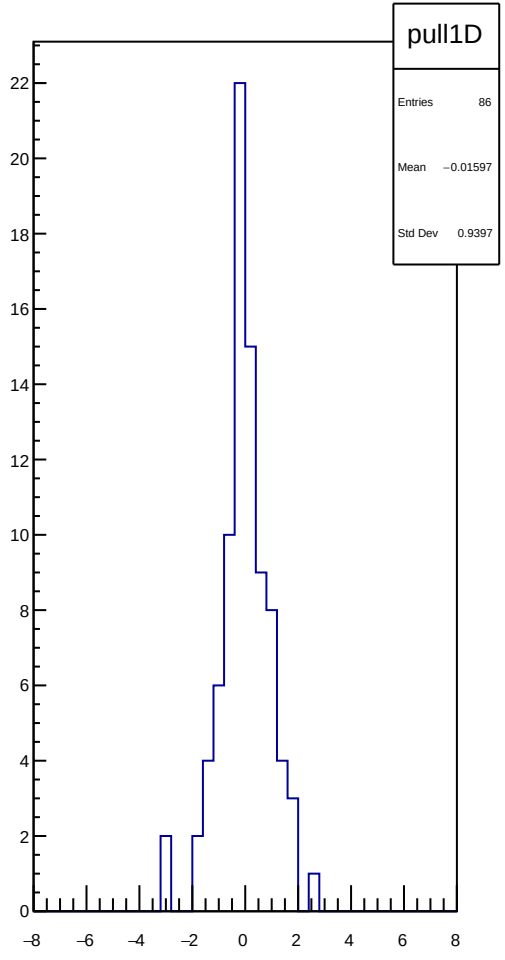

cor_asym_usr_rms vs run
χ² / ndf 102 / 85
p0 1086 ± 0.837
1120
1110
1100
1090
1080
1070
1060

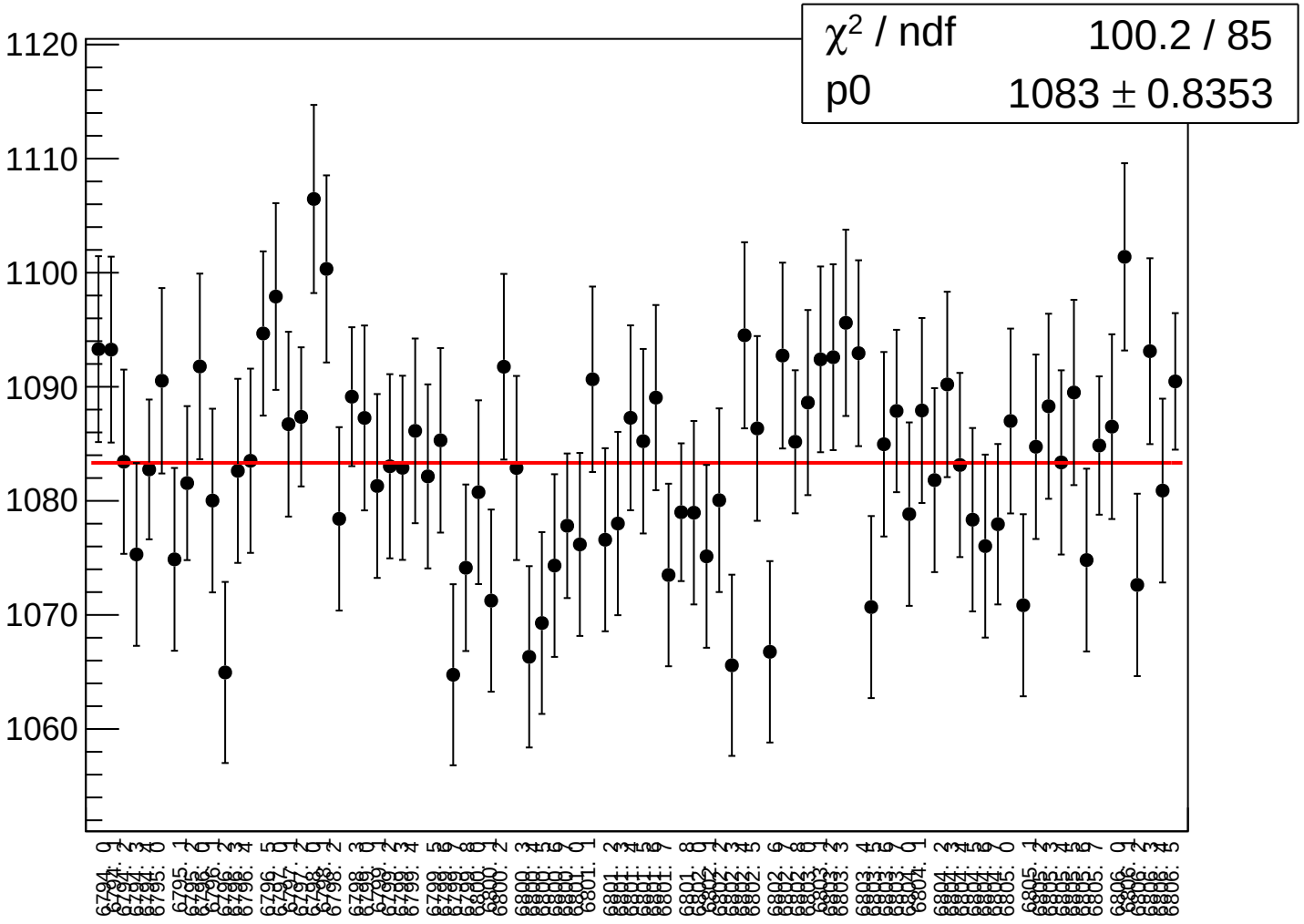

asym_usr_cor_correction_mean vs run
χ² / ndf 80.21 / 85
p0 −750.8 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −109.9
Std Dev 0
2
1
0
−1
−2

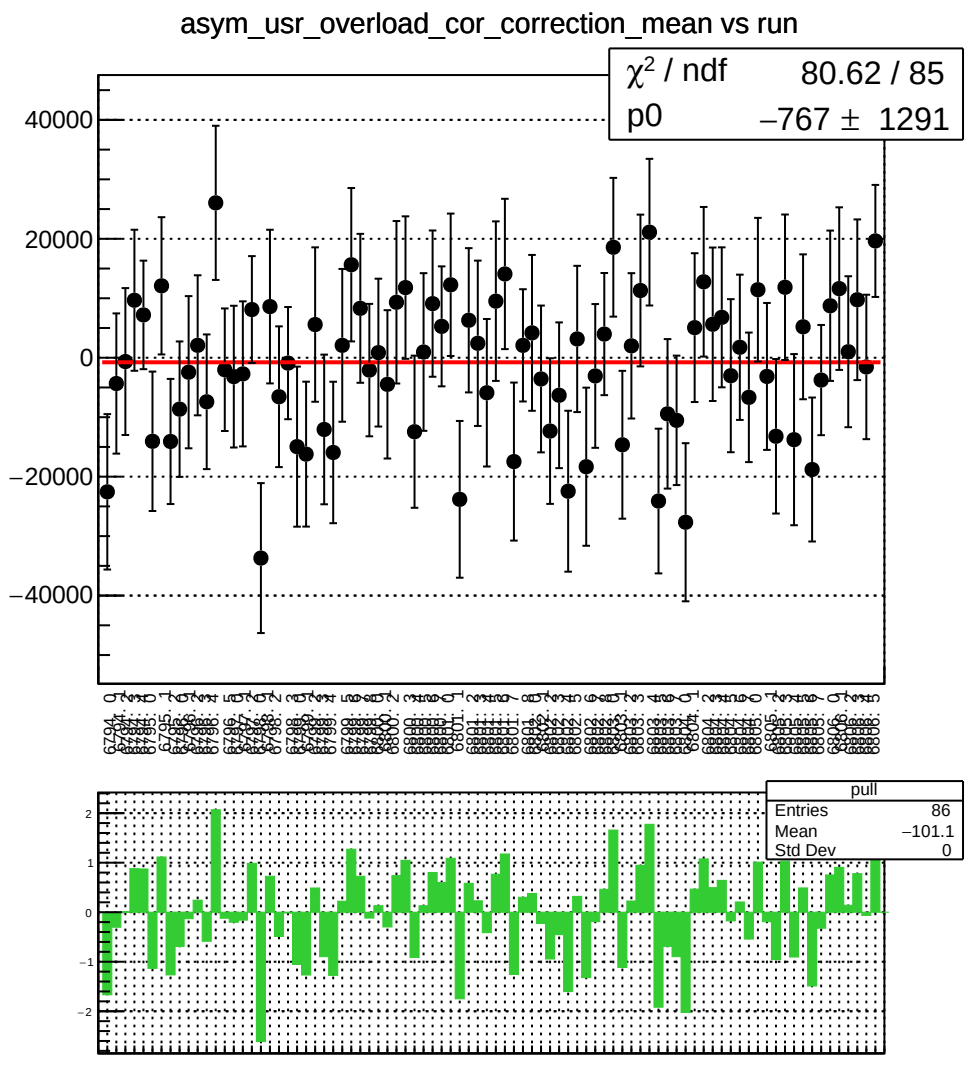

pull1D
Entries 86
Mean −0.01815
Std Dev 0.9656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

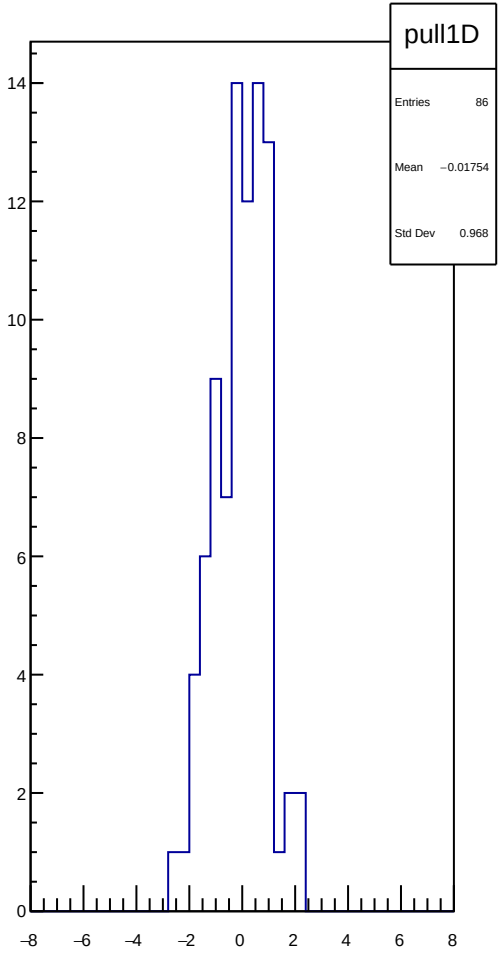

asym_usr_cor_correction_rms vs run
χ² / ndf 3429 / 85
p0 1181 ± 0.9115
1400
1350
1300
1250
1200
1150
1100
1050

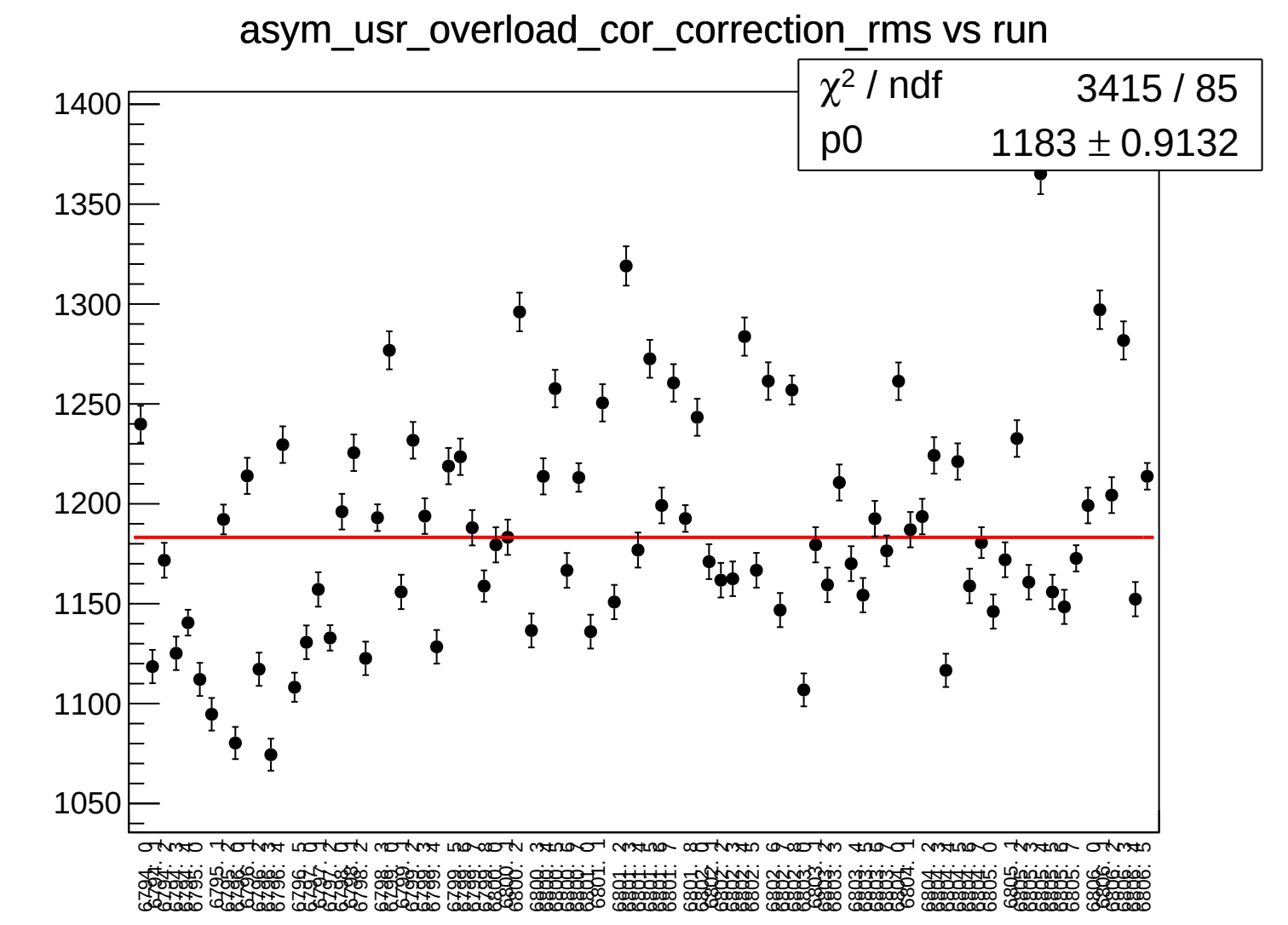

overload_cor_asym_usr_mean vs run
χ² / ndf 75.96 / 85
p0 −539.1± 1181
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 70.97
Std Dev 67.72
2
1
0
−1
−2
−3

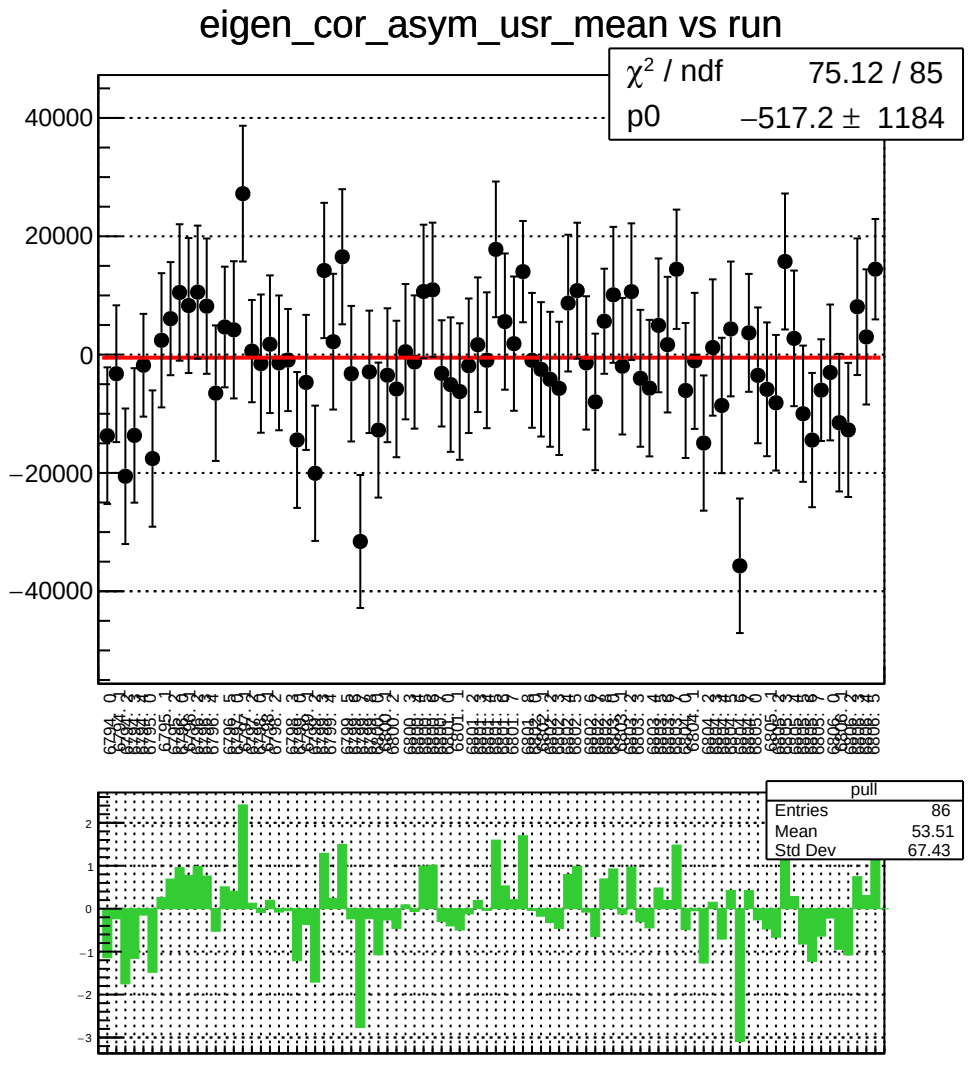

pull1D
Entries 86
Mean −0.01597
Std Dev 0.9397
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

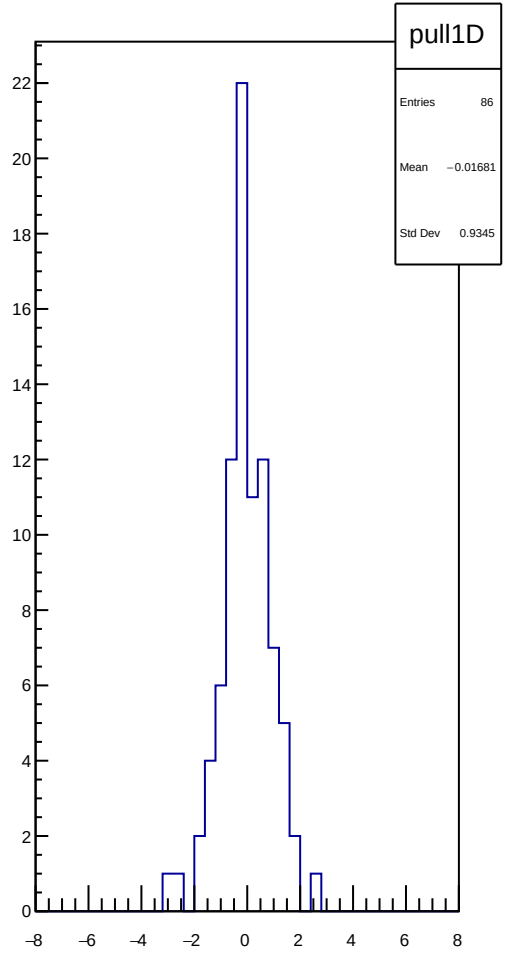

overload_cor_asym_usr_rms vs run
χ² / ndf 100.2 / 85
p0 1083 ± 0.8353
1120
1110
1100
1090
1080
1070
1060

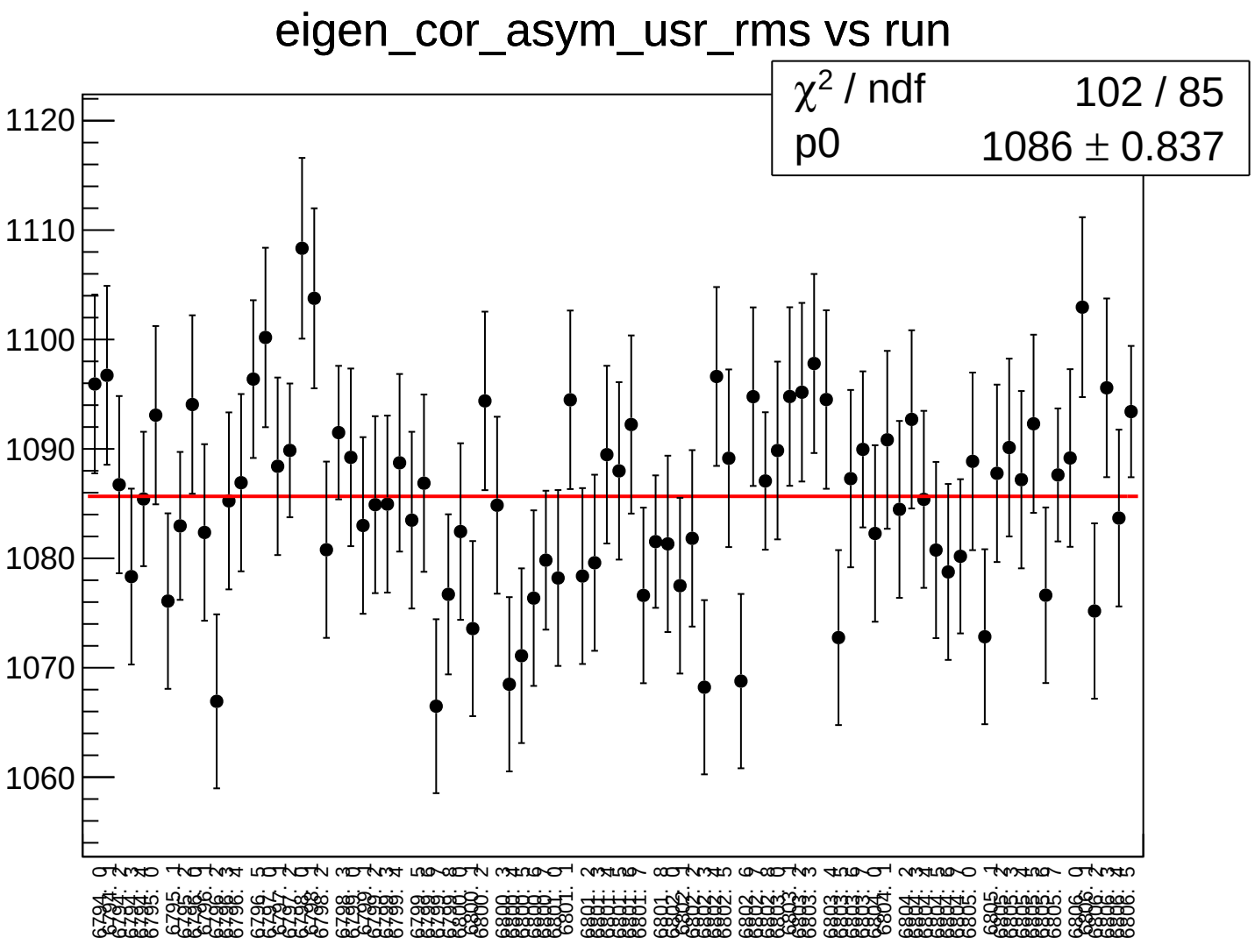

asym_usr_overload_cor_correction_mean vs run
χ² / ndf 80.62 / 85
p0 −767 ± 1291
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −101.1
Std Dev 0
2
1
0
−1
−2

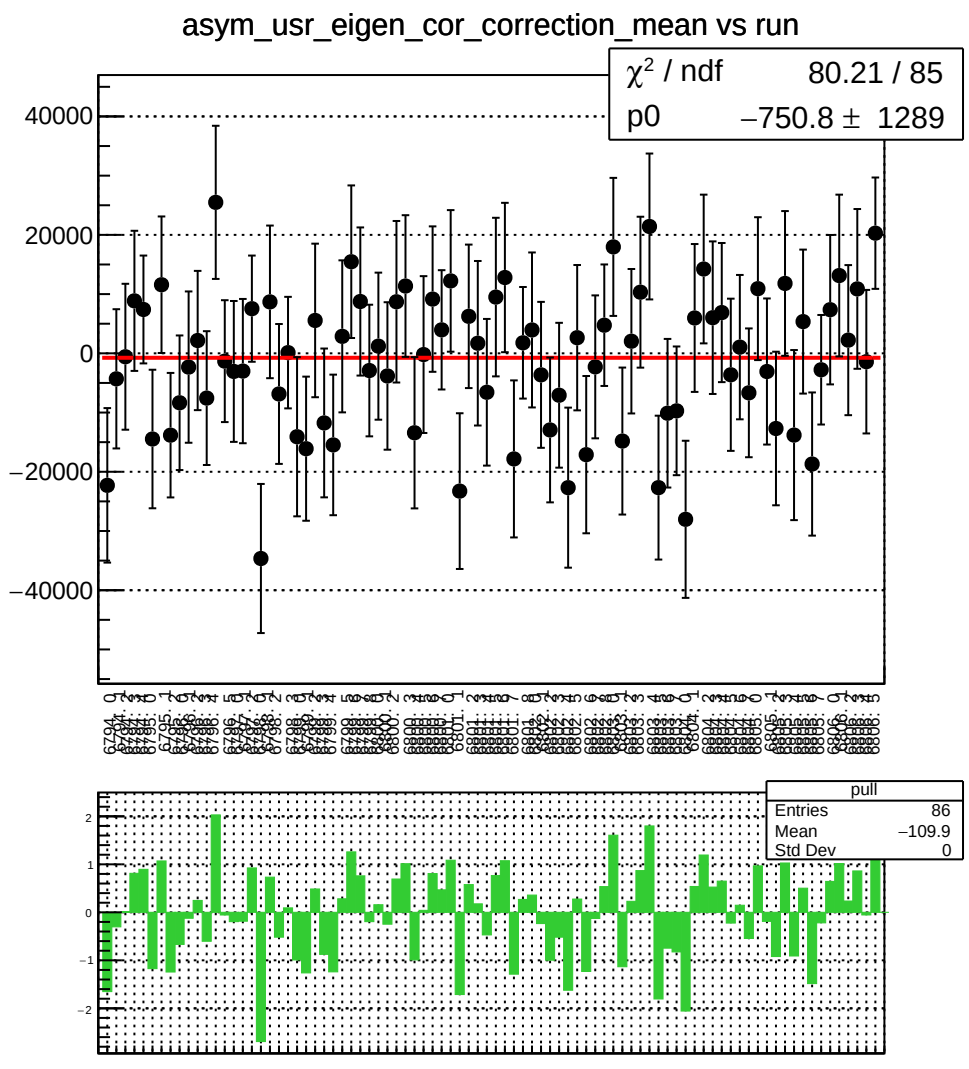

pull1D
Entries 86
Mean −0.01754
Std Dev 0.968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

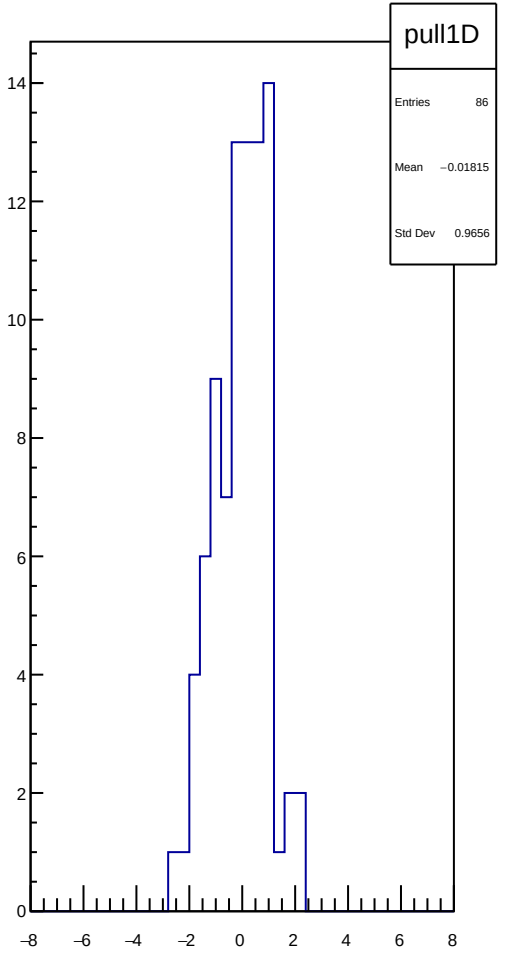

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 3415 / 85
p0 1183 ± 0.9132
1400
1350
1300
1250
1200
1150
1100
1050

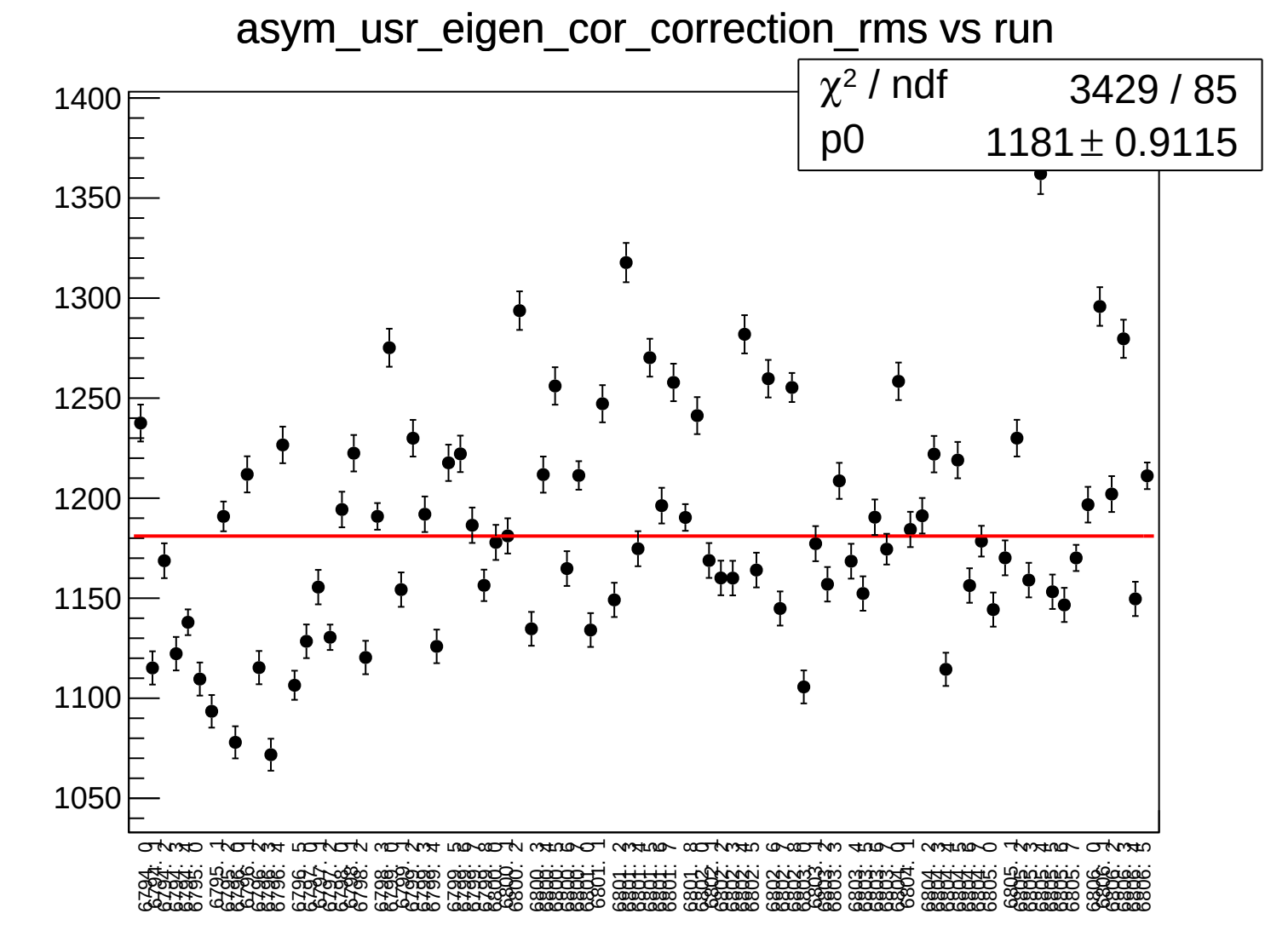

eigen_cor_asym_usr_mean vs run
χ² / ndf 75.12 / 85
p0 −517.2 ± 1184
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.51
Std Dev 67.43
2
1
0
−1
−2
−3

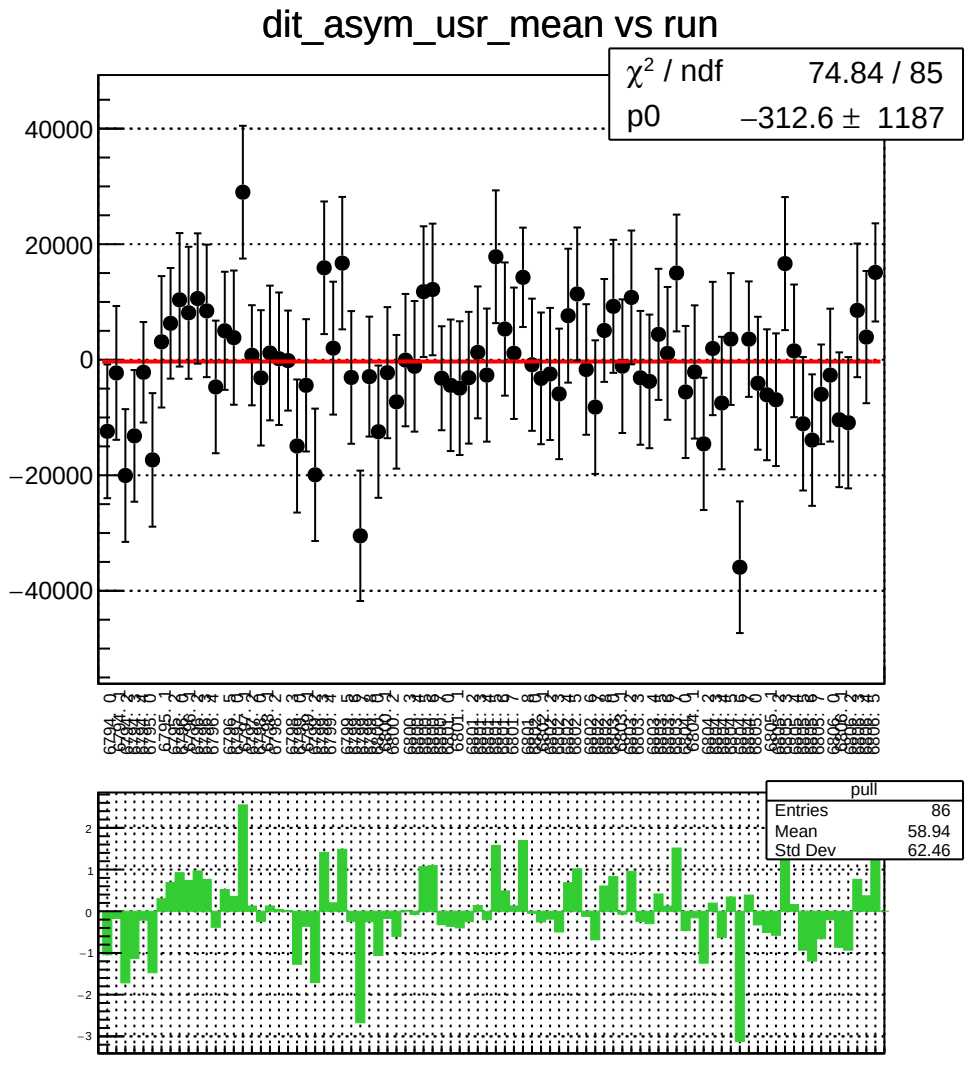

pull1D
Entries 86
Mean −0.01681
Std Dev 0.9345
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

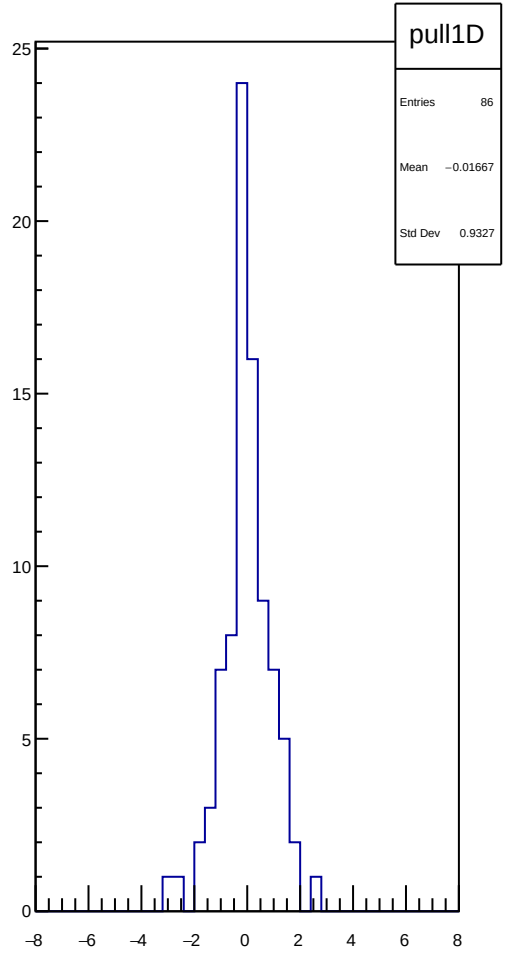

eigen_cor_asym_usr_rms vs run
χ^2 / ndf 102 / 85
p0 1086 ± 0.837
1120
1110
1100
1090
1080
1070
1060

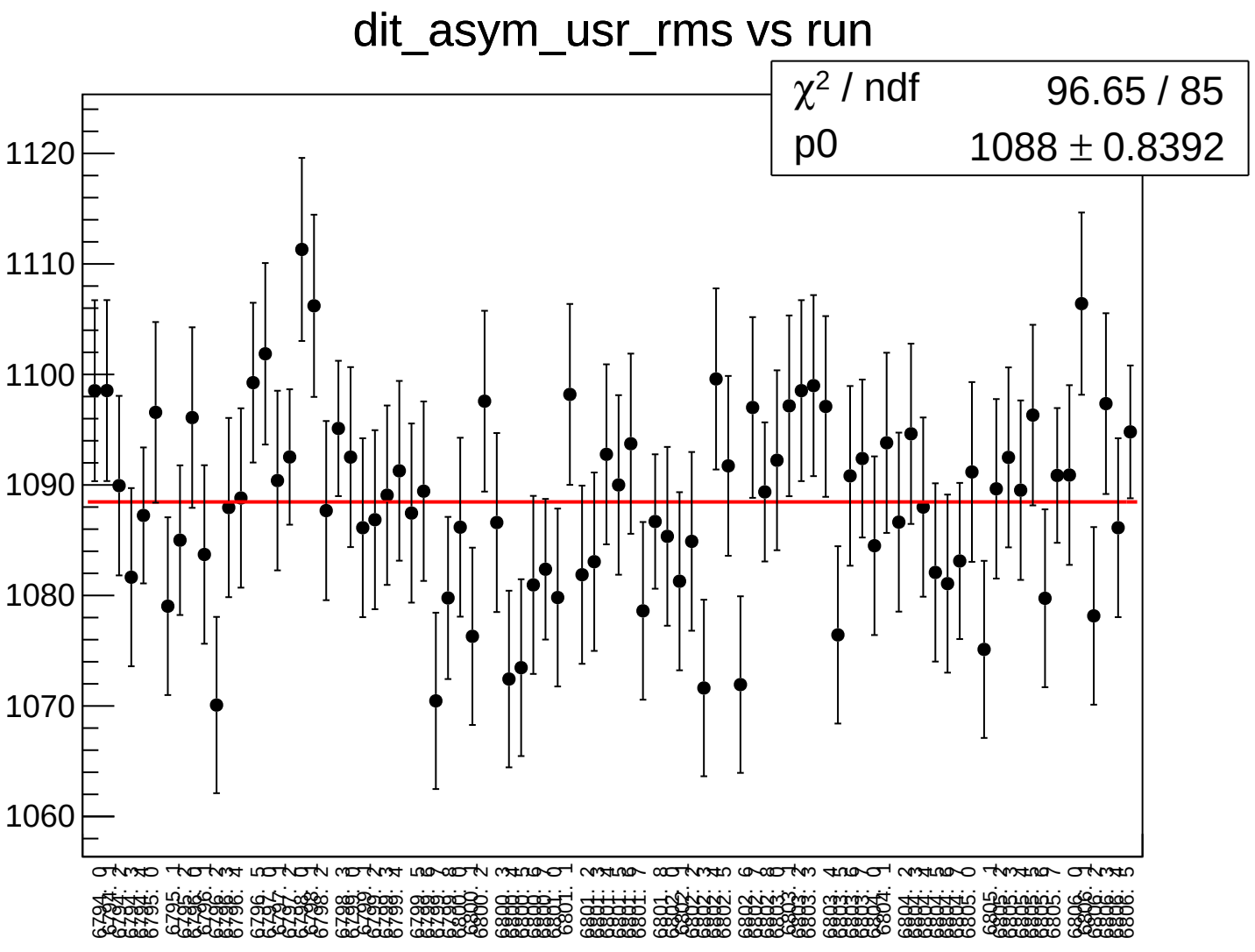

asym_usr_eigen_cor_correction_mean vs run
χ² / ndf 80.21 / 85
p0 −750.8 ± 1289
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −109.9
Std Dev 0
2
1
0
−1
−2

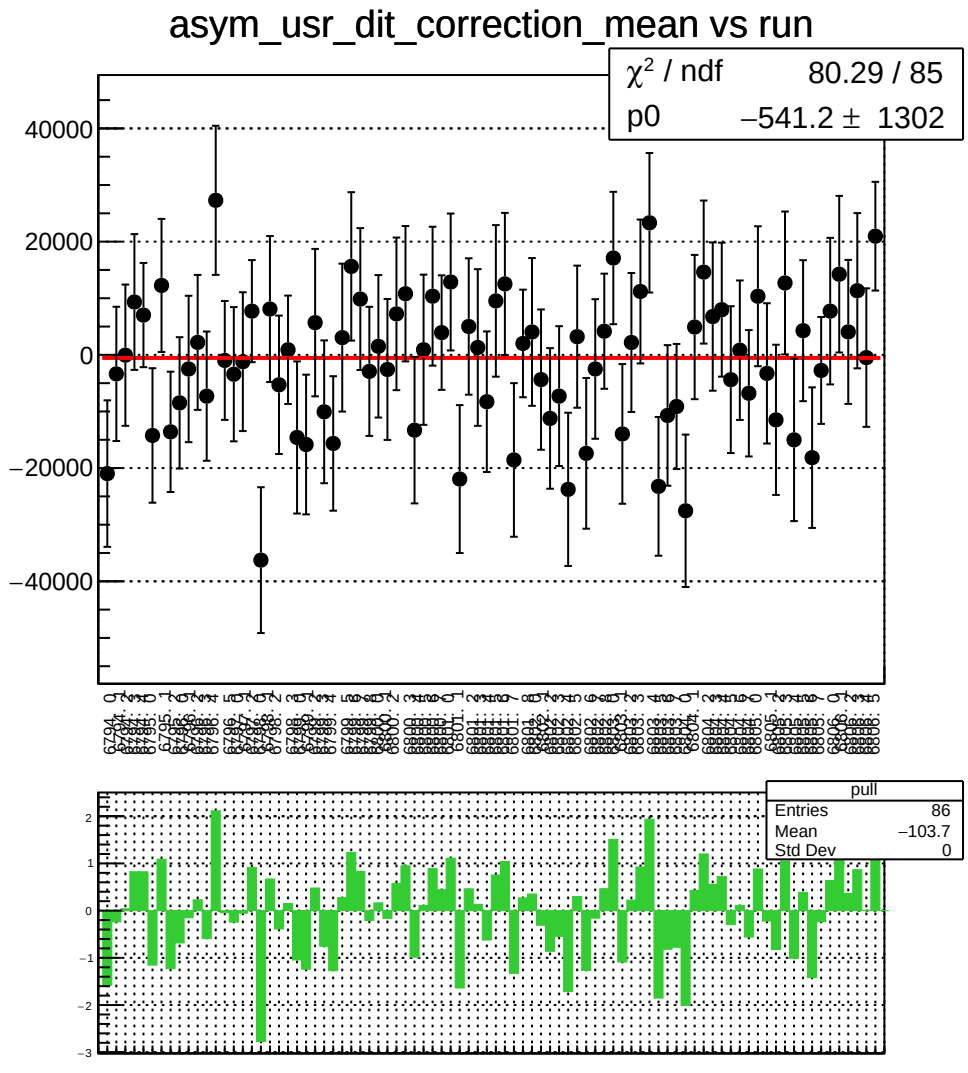

pull1D
Entries 86
Mean −0.01815
Std Dev 0.9656
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

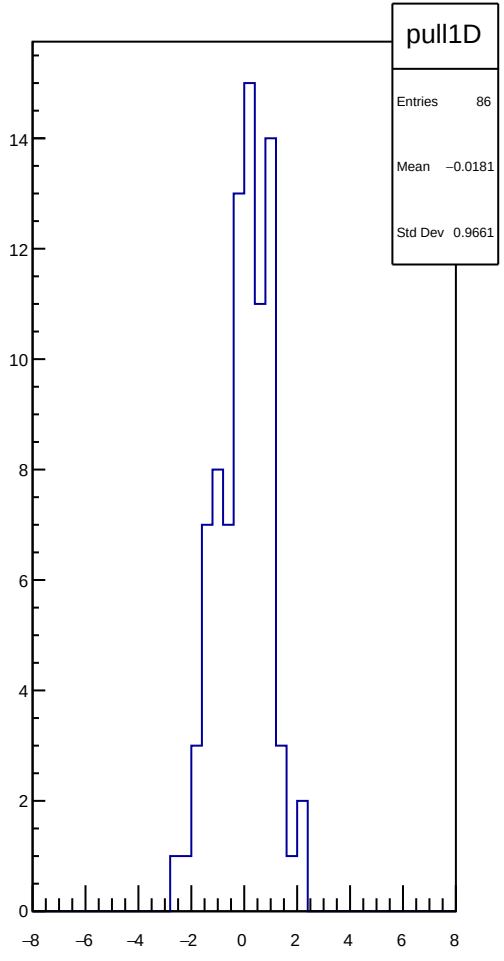

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 3429 / 85
p0 1181 ± 0.9115
1400
1350
1300
1250
1200
1150
1100
1050

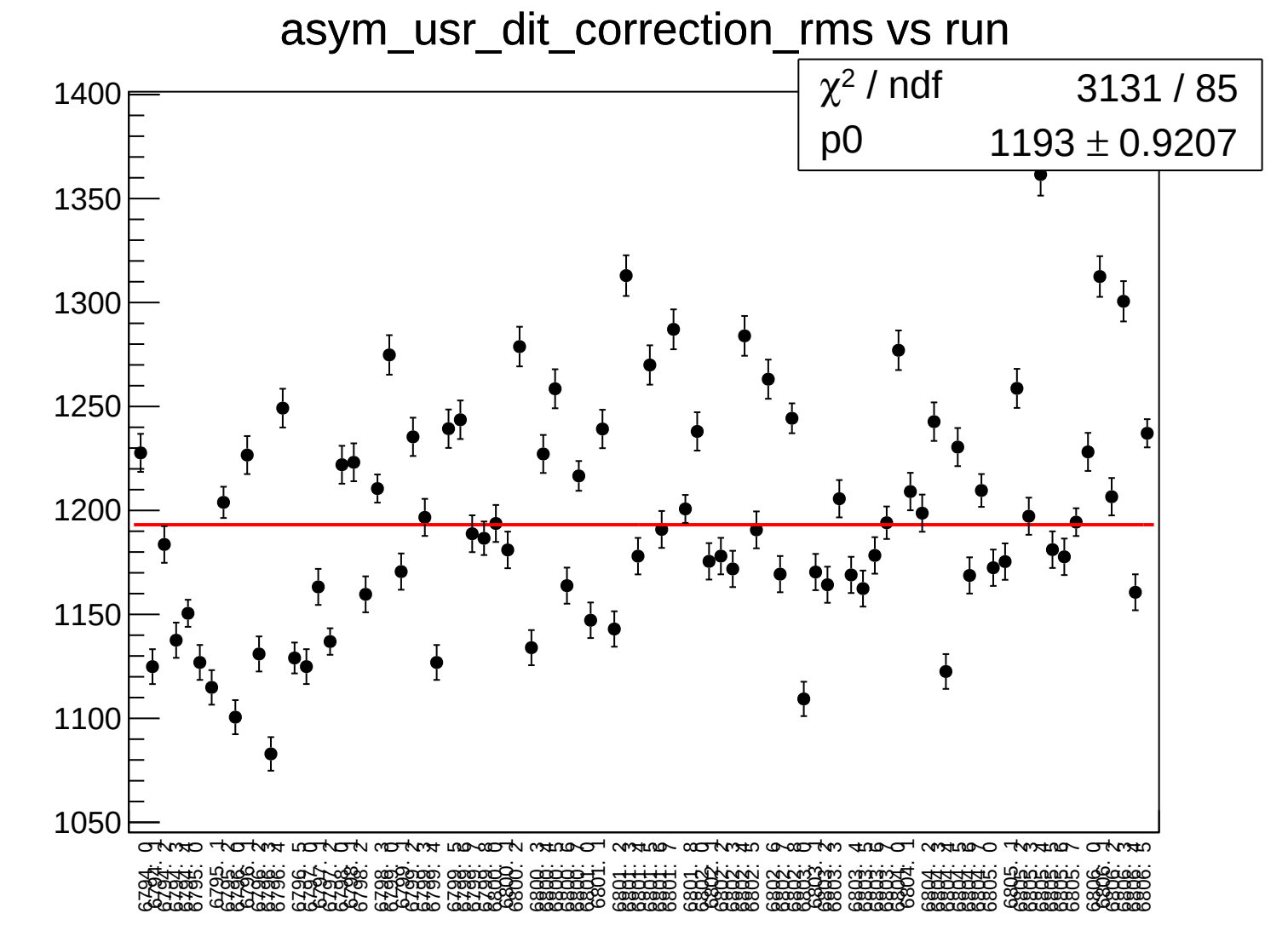

dit_asym_usr_mean vs run
χ² / ndf 74.84 / 85
p0 −312.6 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 58.94
Std Dev 62.46
2
1
0
−1
−2
−3

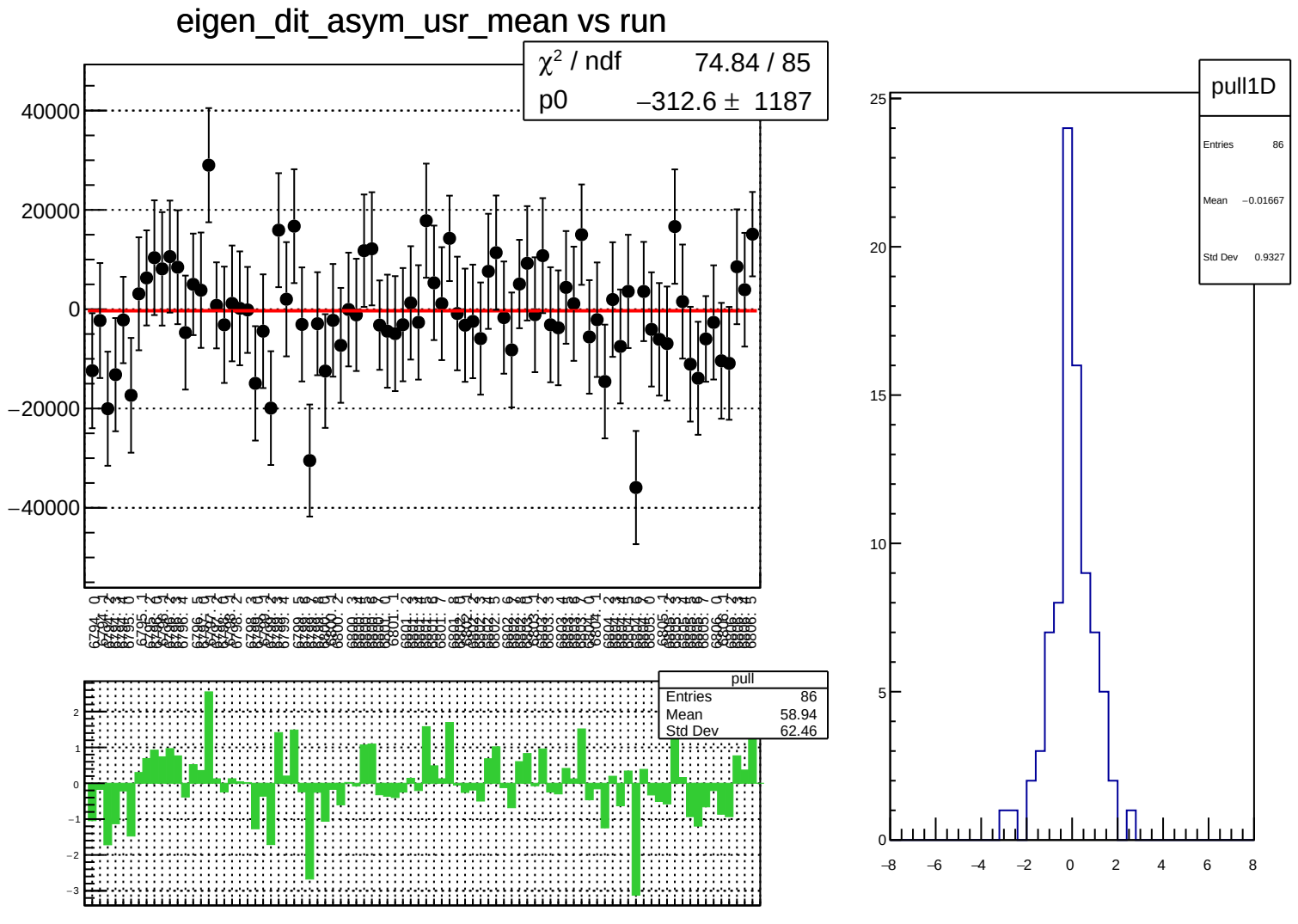

pull1D
Entries 86
Mean −0.01667
Std Dev 0.9327
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

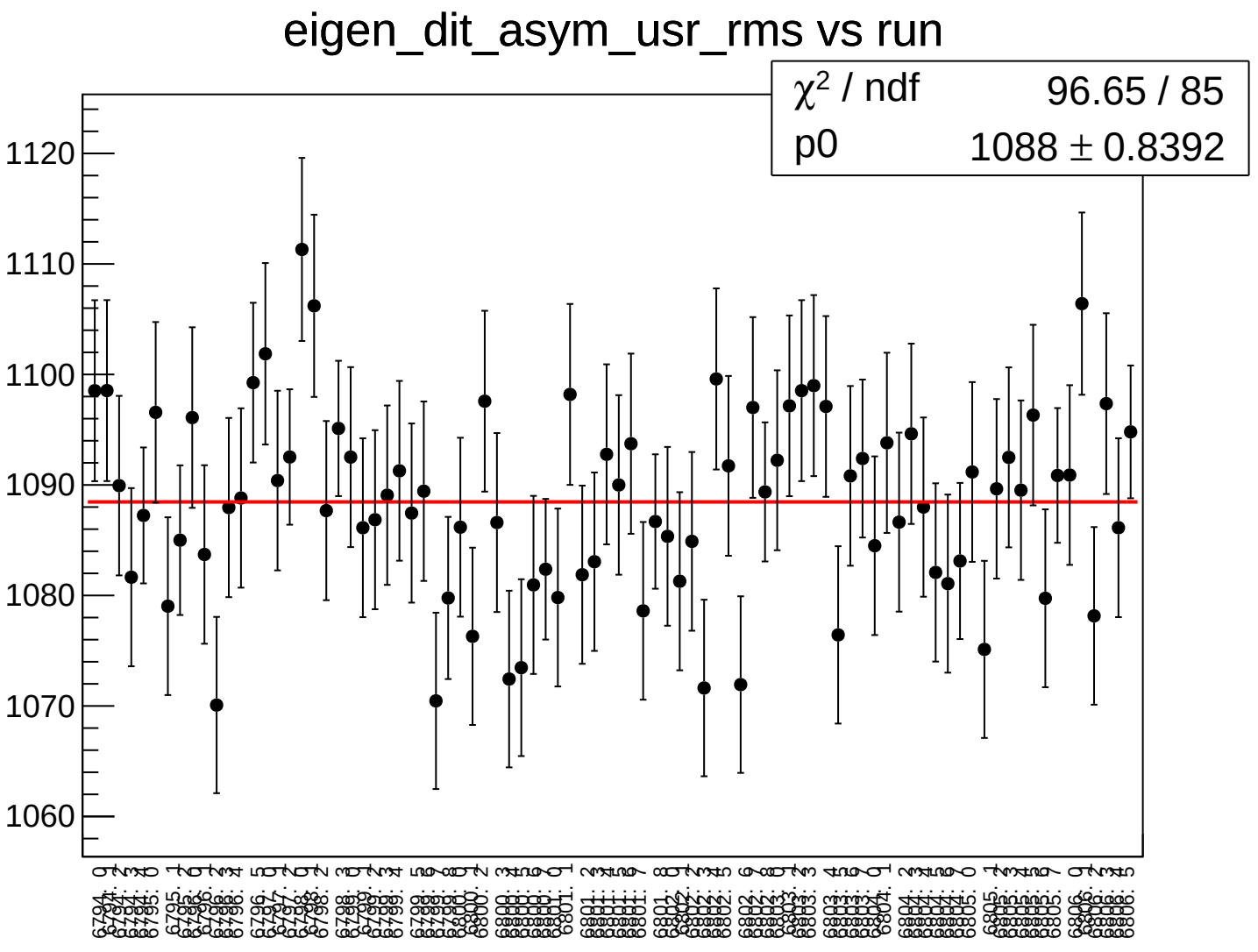

dit_asym_usr_rms vs run
χ² / ndf 96.65 / 85
p0 1088 ± 0.8392
1120
1110
1100
1090
1080
1070
1060

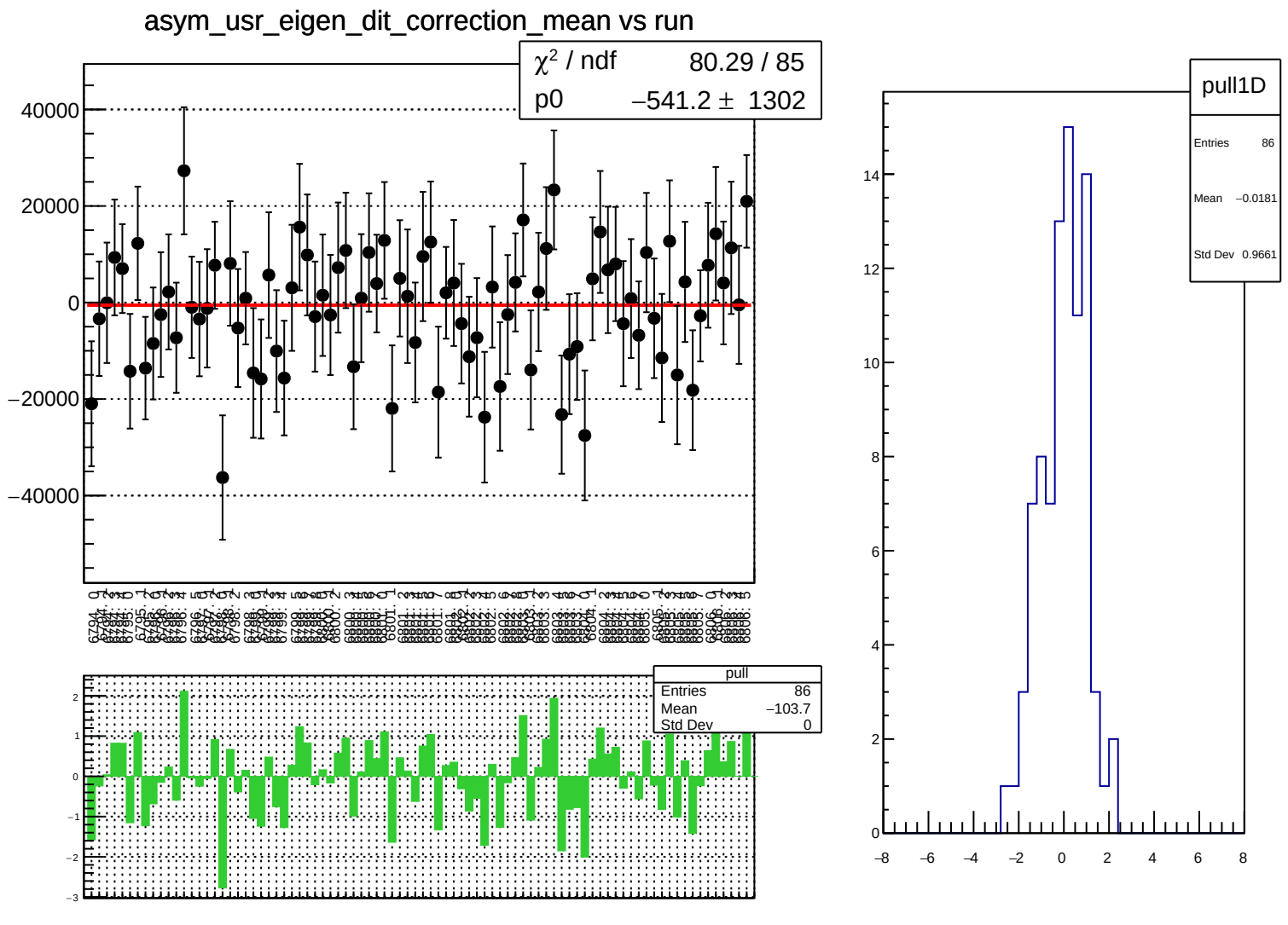

asym_usr_dit_correction_mean vs run
χ² / ndf 80.29 / 85
p0 −541.2 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −103.7
Std Dev 0
2
1
0
−1
−2
−3

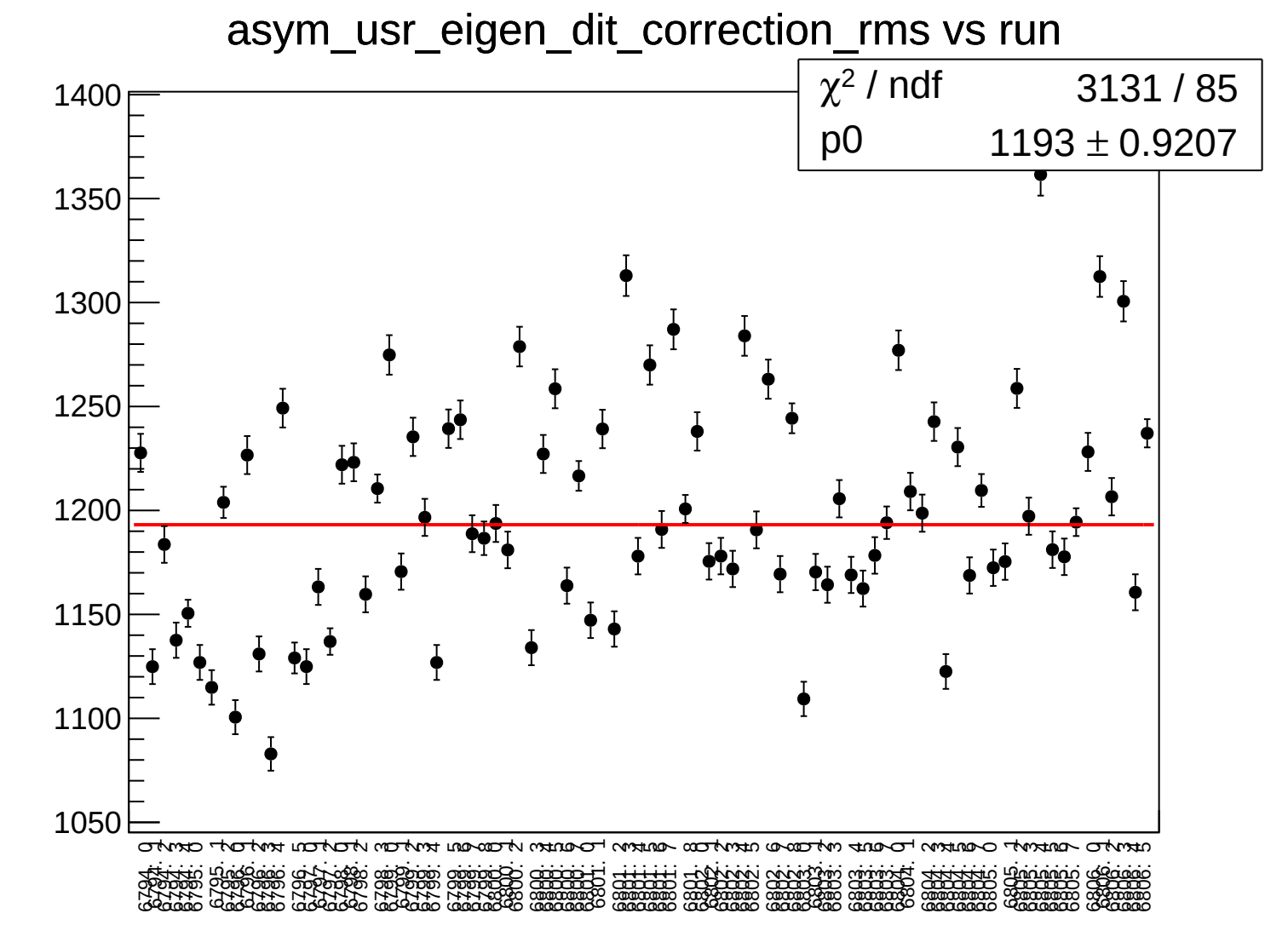

pull1D
Entries 86
Mean −0.0181
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

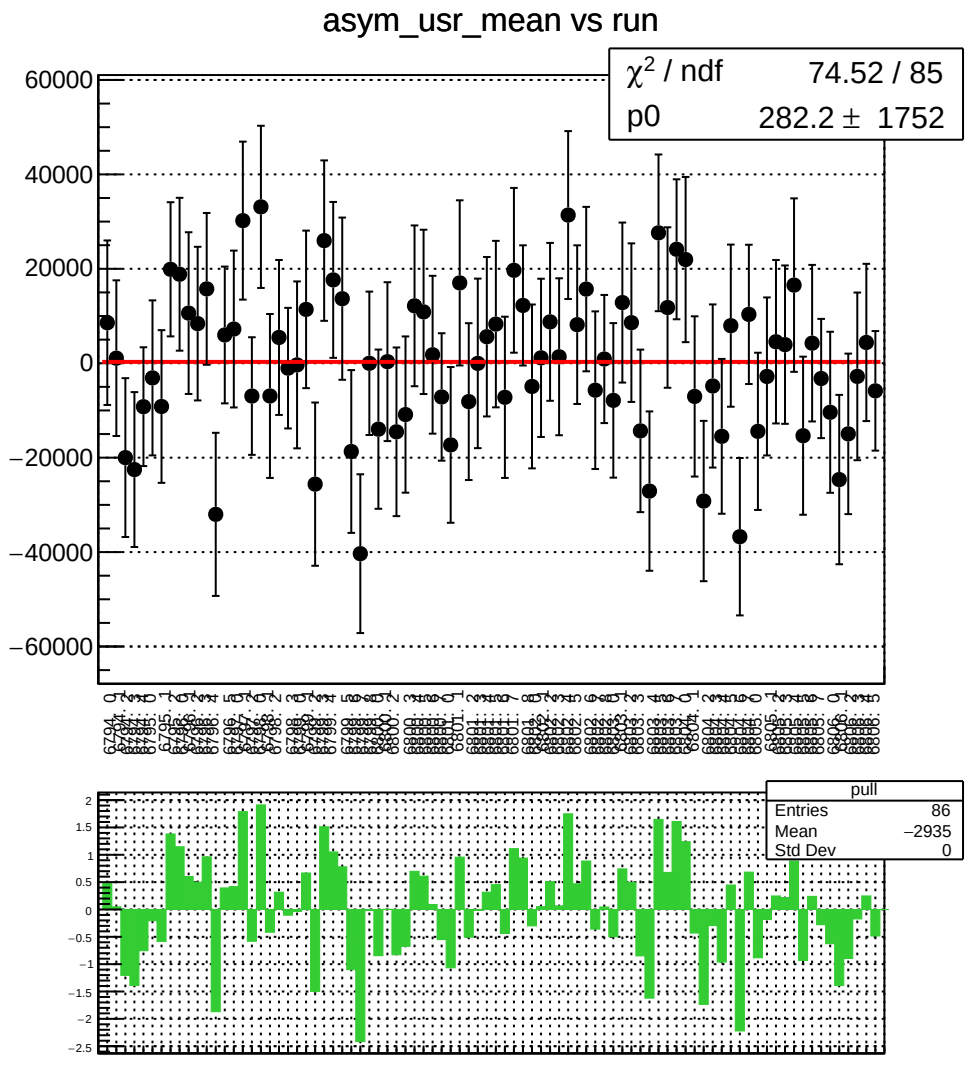

asym_usr_dit_correction_rms vs run
χ² / ndf 3131 / 85
p0 1193 ± 0.9207
1400
1350
1300
1250
1200
1150
1100
1050

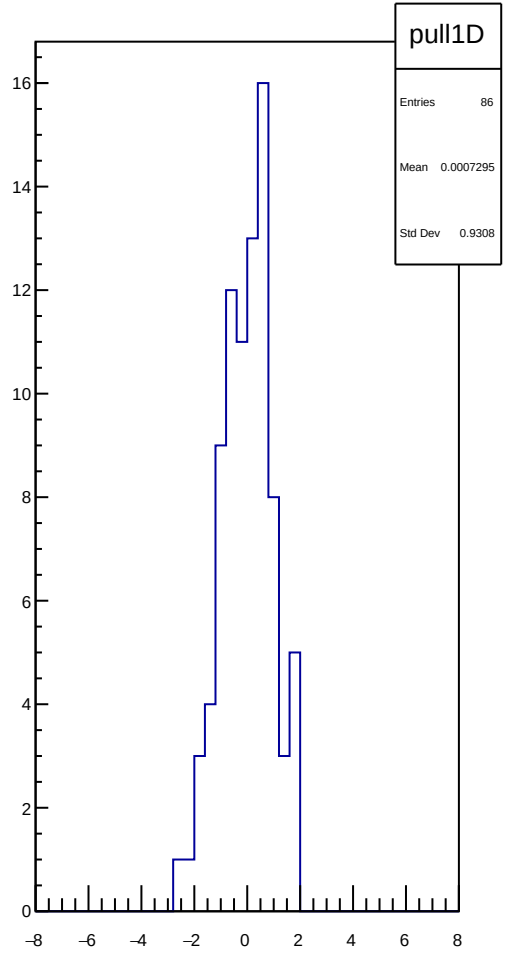

eigen_dit_asym_usr_mean vs run
χ² / ndf 74.84 / 85
p0 −312.6 ± 1187
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 58.94
Std Dev 62.46
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.01667
Std Dev 0.9327
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

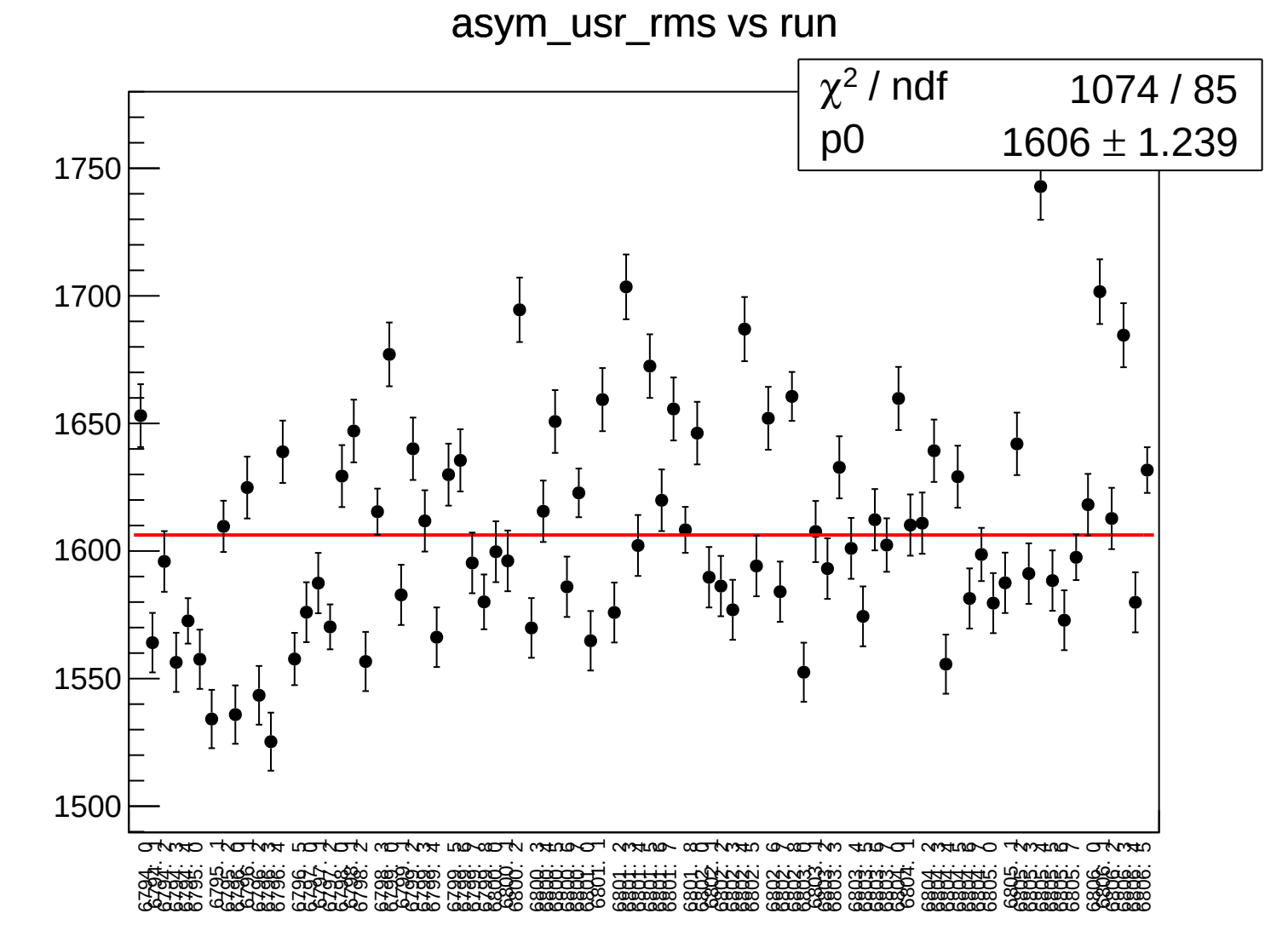

eigen_dit_asym_usr_rms vs run
χ² / ndf 96.65 / 85
p0 1088 ± 0.8392
1120
1110
1100
1090
1080
1070
1060

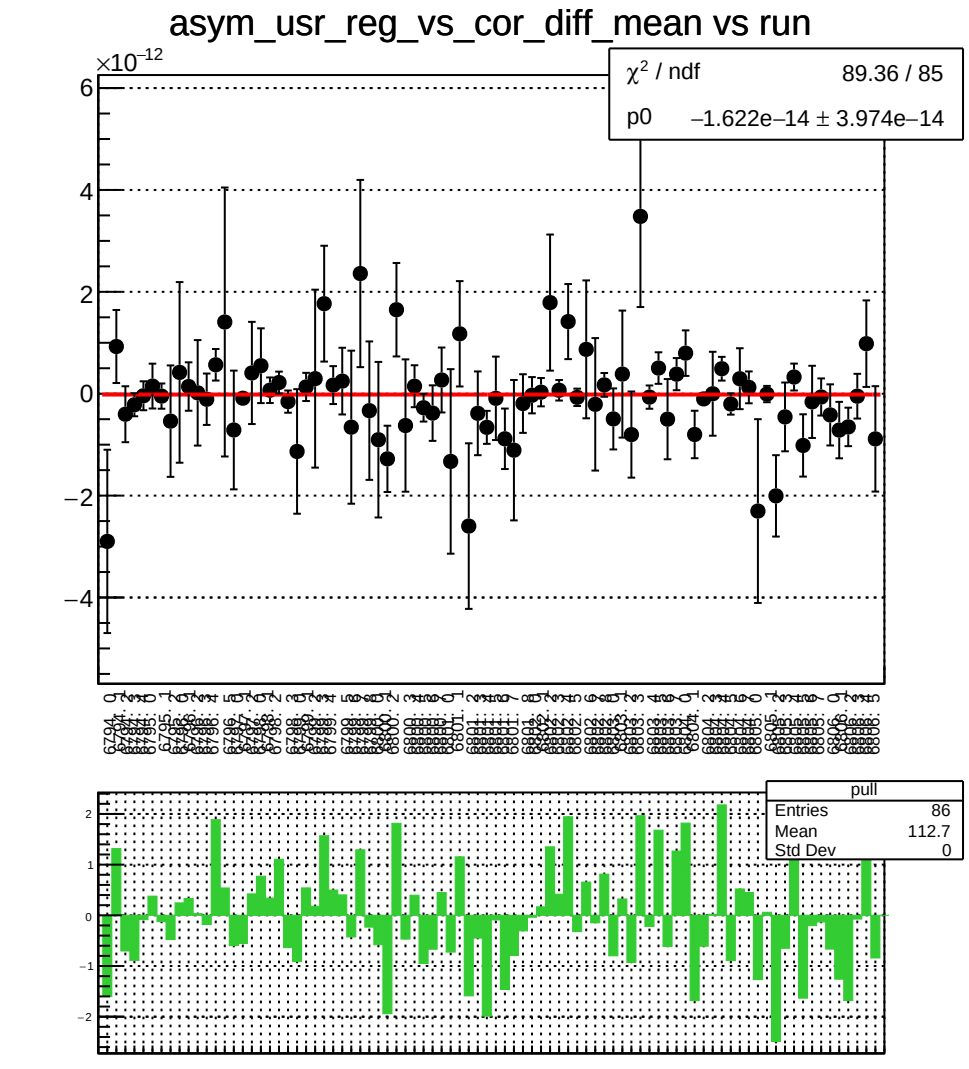

asym_usr_eigen_dit_correction_mean vs run
χ² / ndf 80.29 / 85
p0 −541.2 ± 1302
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −103.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.0181
Std Dev 0.9661
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

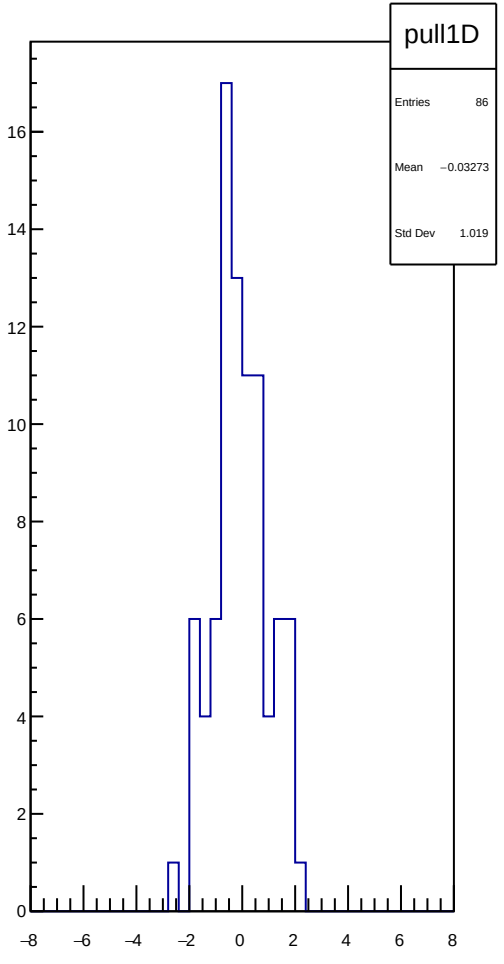

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 3131 / 85
p0 1193 ± 0.9207
1400
1350
1300
1250
1200
1150
1100
1050

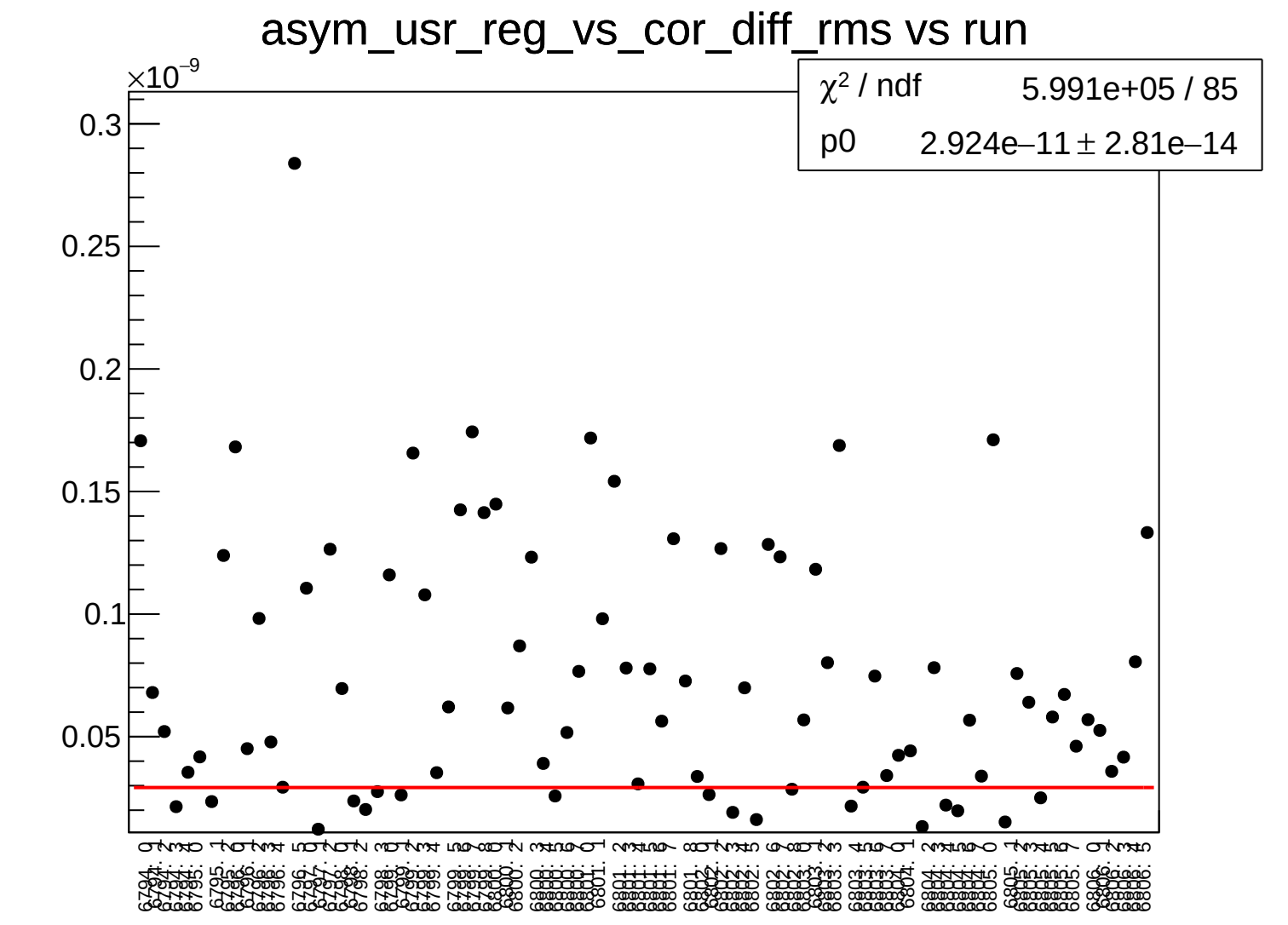

asym_usr_mean vs run
χ² / ndf 74.52 / 85
p0 282.2 ± 1752
pull
Entries 86
Mean −2935
Std Dev 0

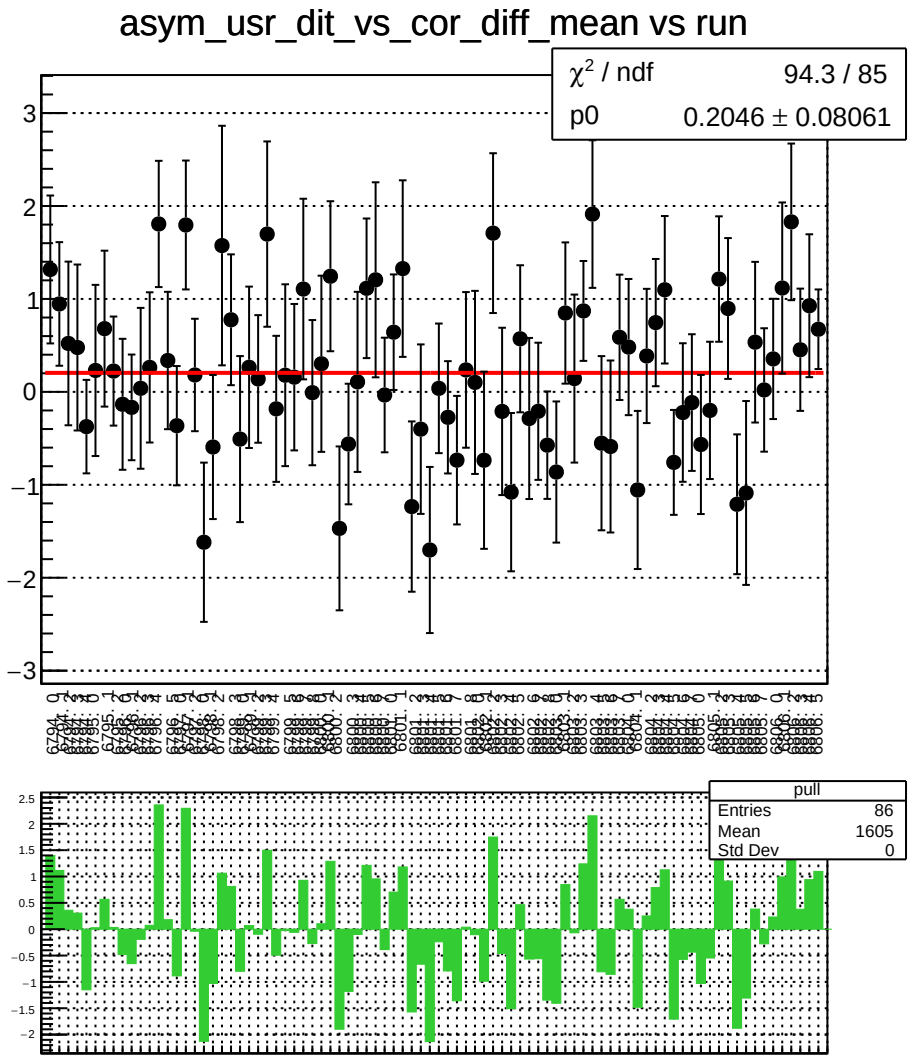

pull1D
Entries 86
Mean 0.0007295
Std Dev 0.9308

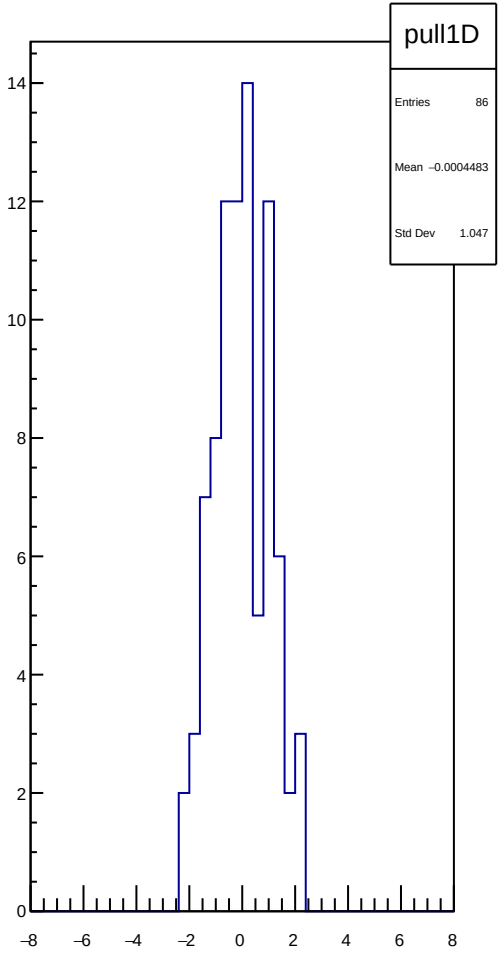

asym_usr_rms vs run
χ^2 / ndf 1074 / 85
p0 1606 ± 1.239
1750
1700
1650
1600
1550
1500

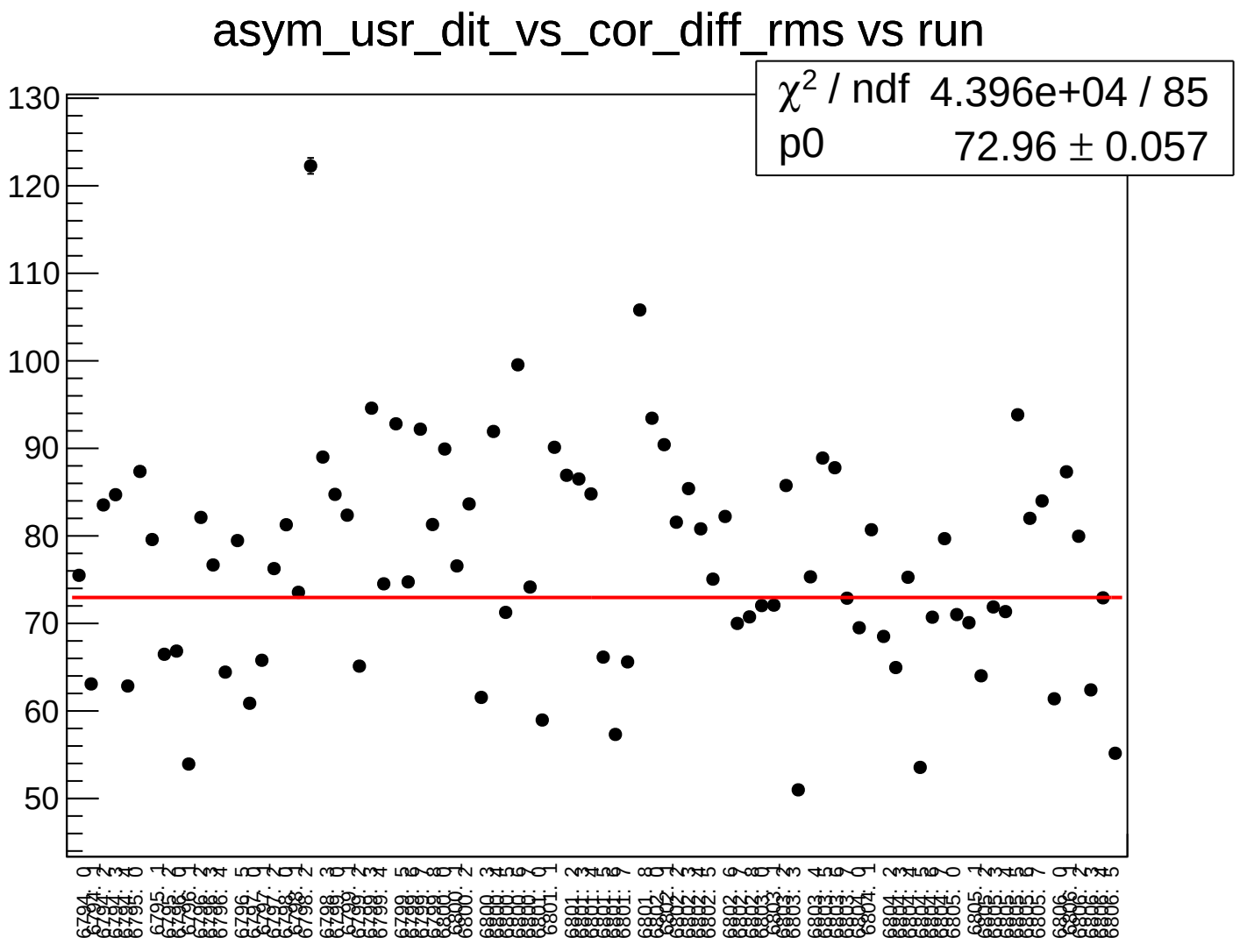

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.36 / 85
p0 −1.622e−14 ± 3.974e−14
pull
Entries 86
Mean 112.7
Std Dev 0

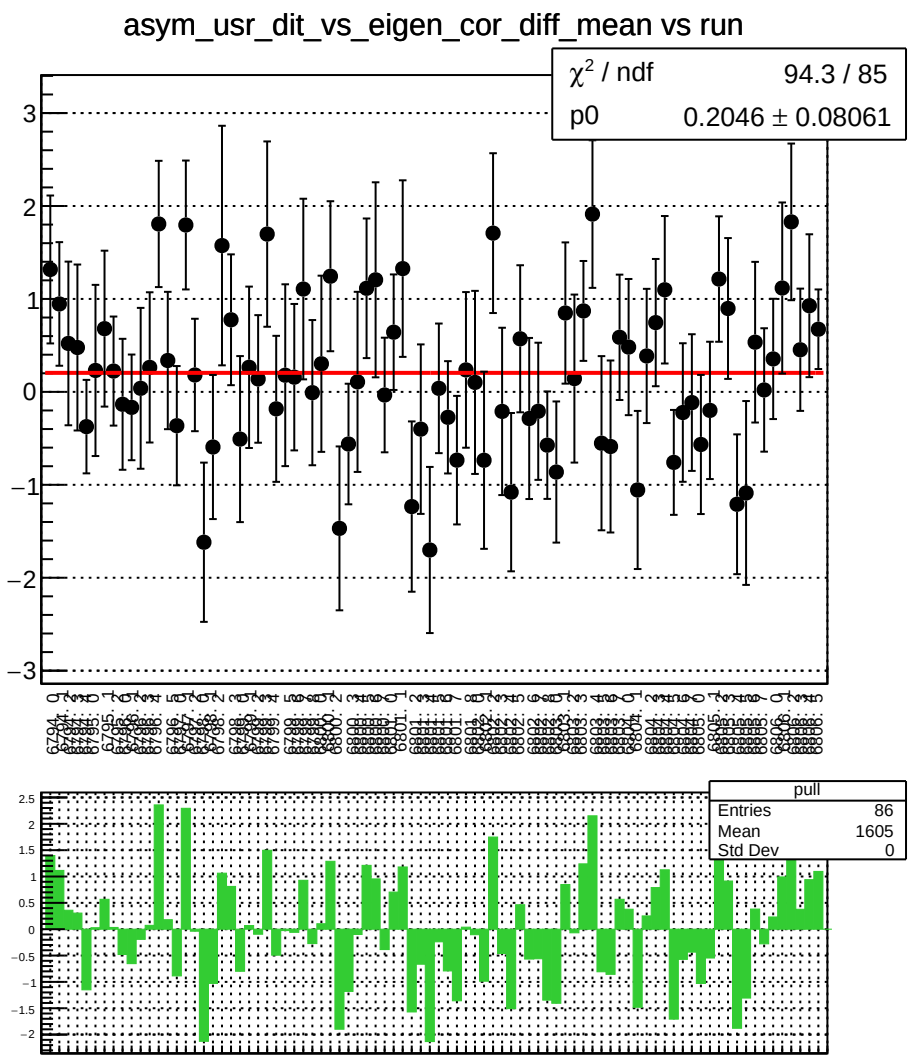

pull1D
Entries 86
Mean −0.03273
Std Dev 1.019

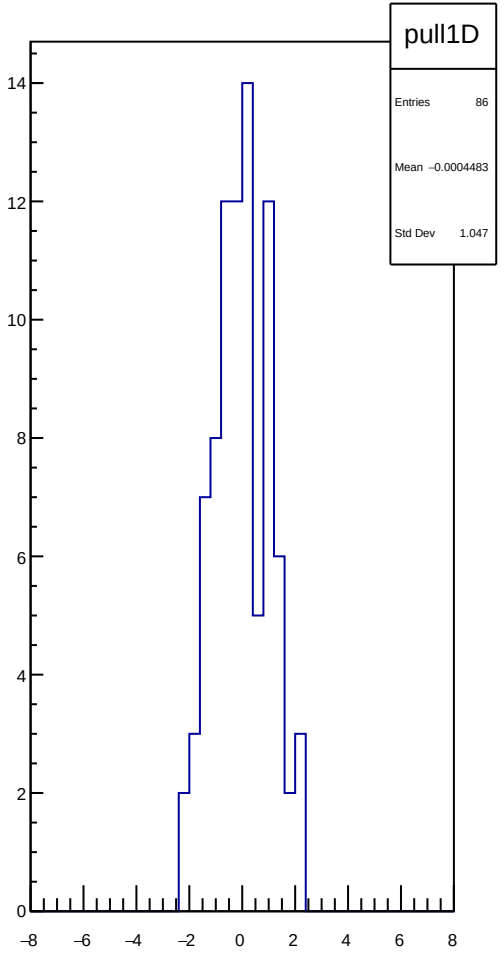

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.991e+05 / 85
p0 2.924e−11 ± 2.81e−14
0.3
0.25
0.2
0.15
0.1
0.05

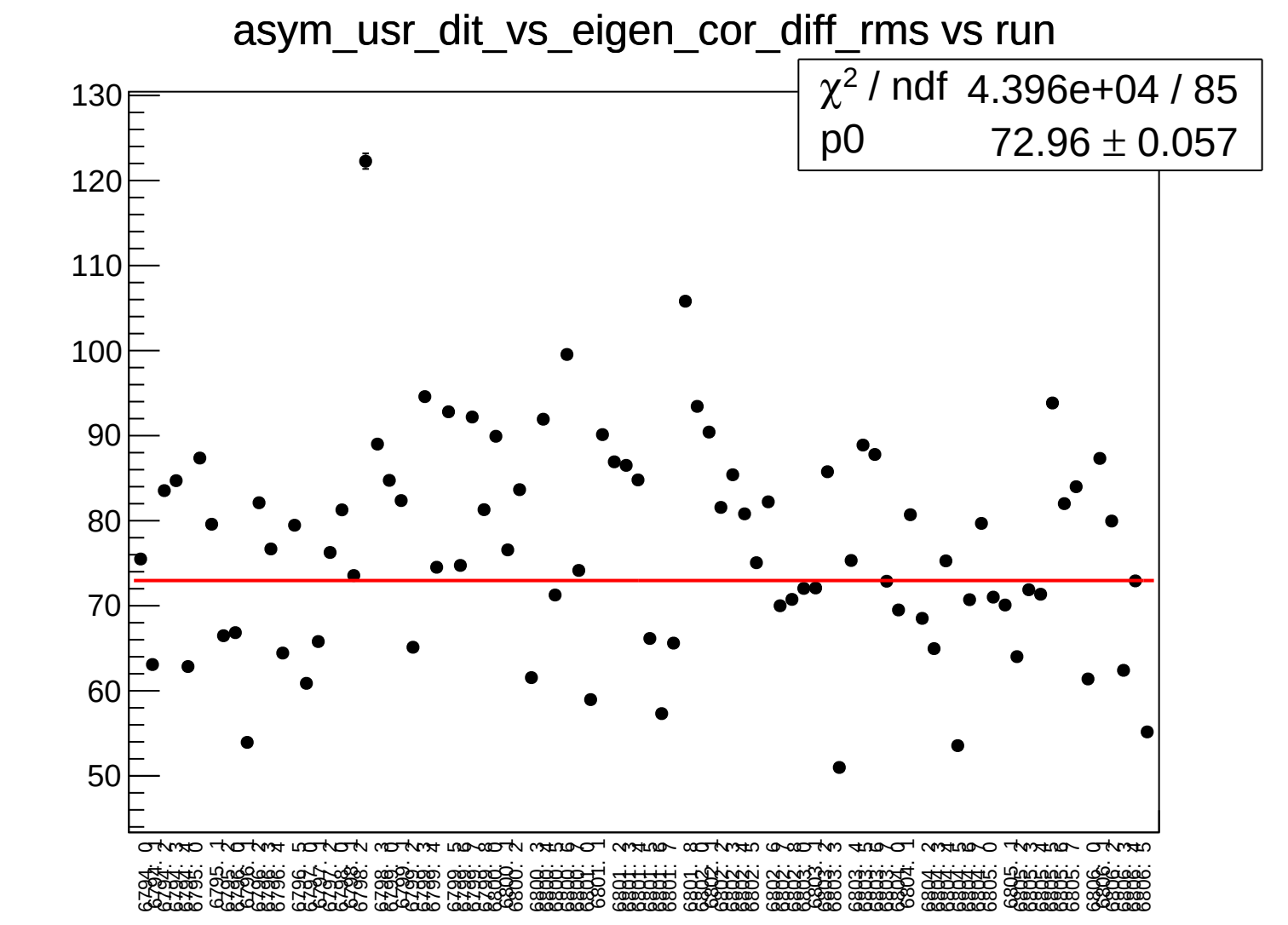

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.2046 ± 0.08061
pull
Entries 86
Mean 1605
Std Dev 0

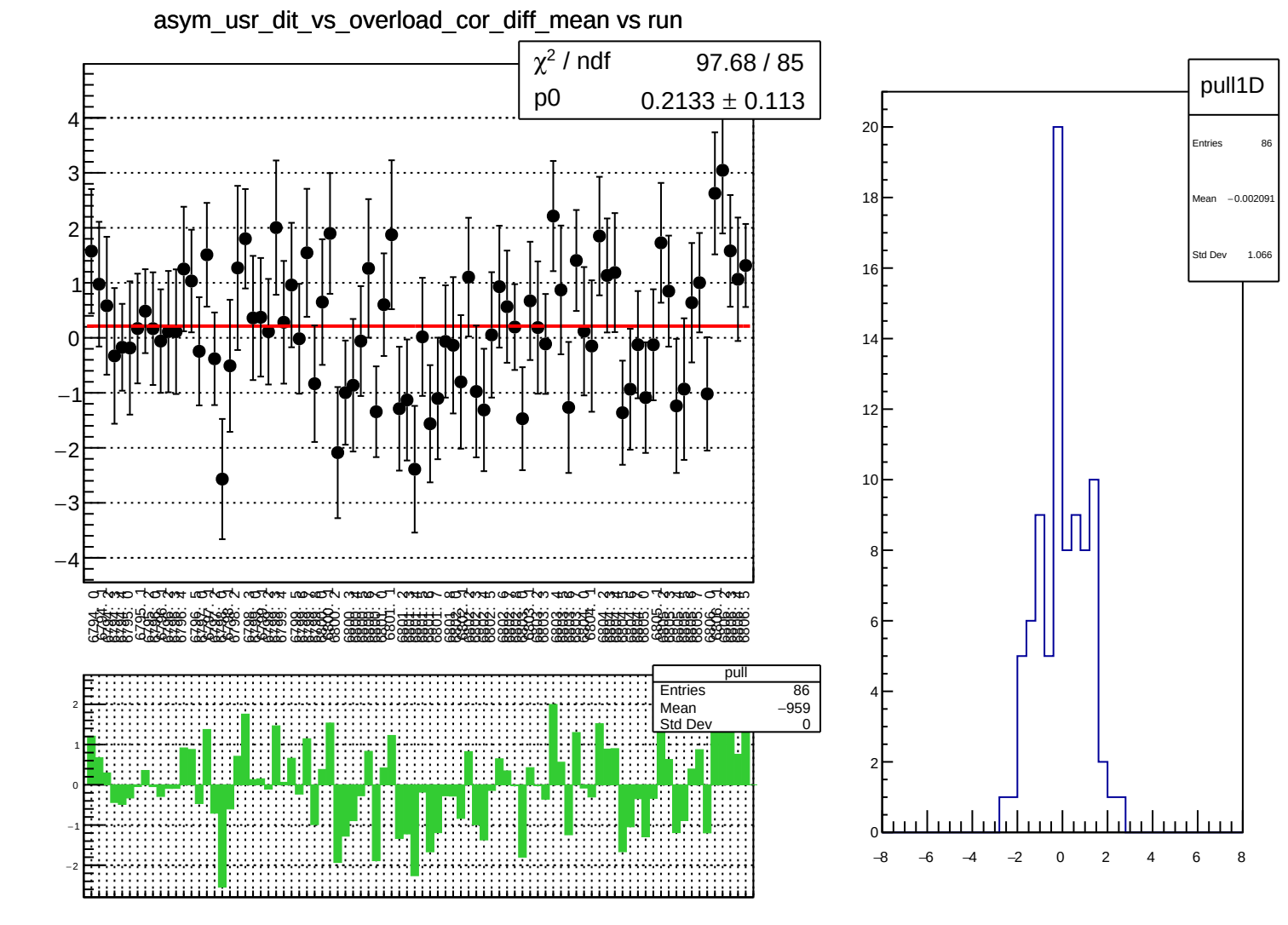

pull1D
Entries 86
Mean −0.0004483
Std Dev 1.047

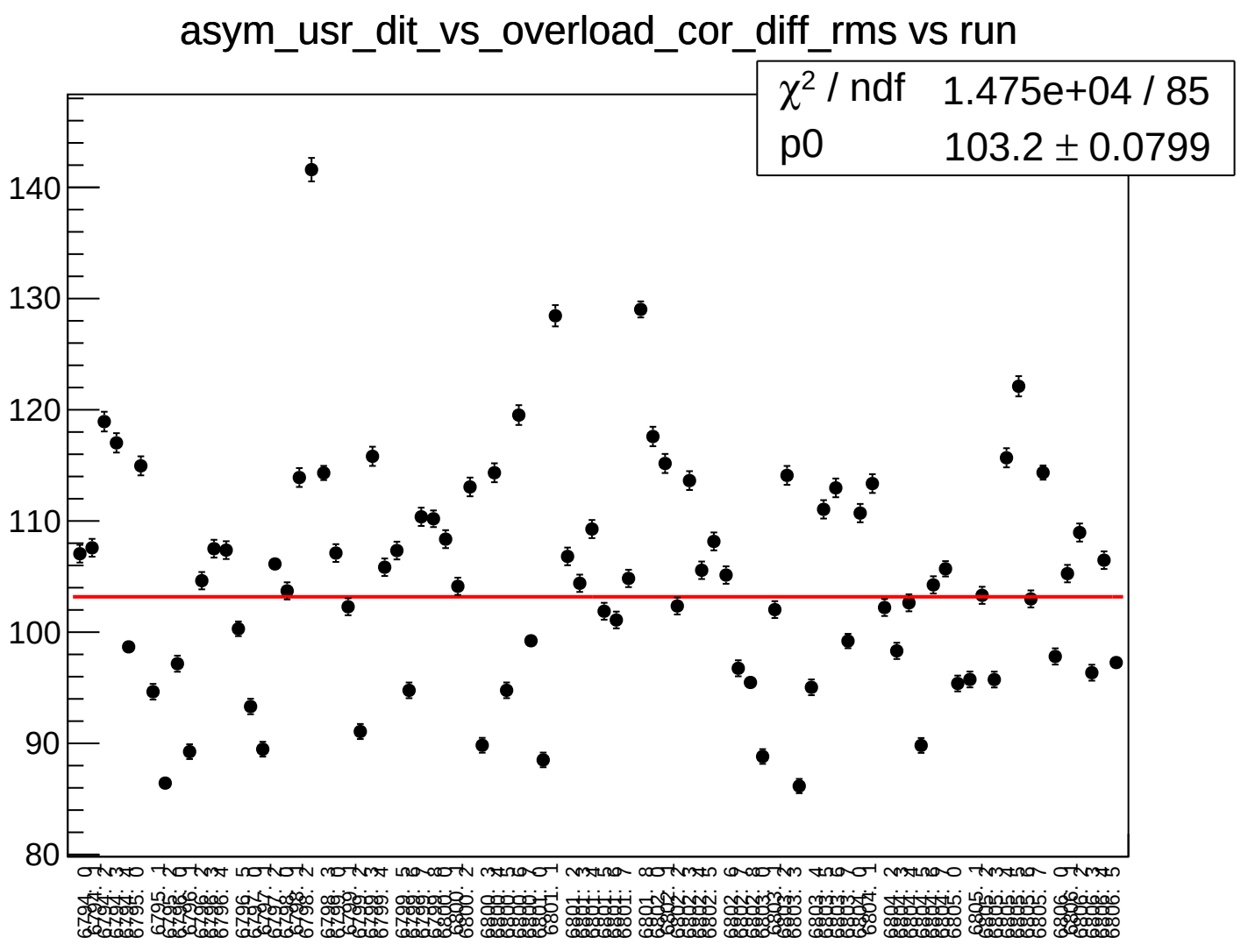

asym_usr_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.396e+04 / 85
p0 72.96 ± 0.057
130
120
110
100
90
80
70
60
50

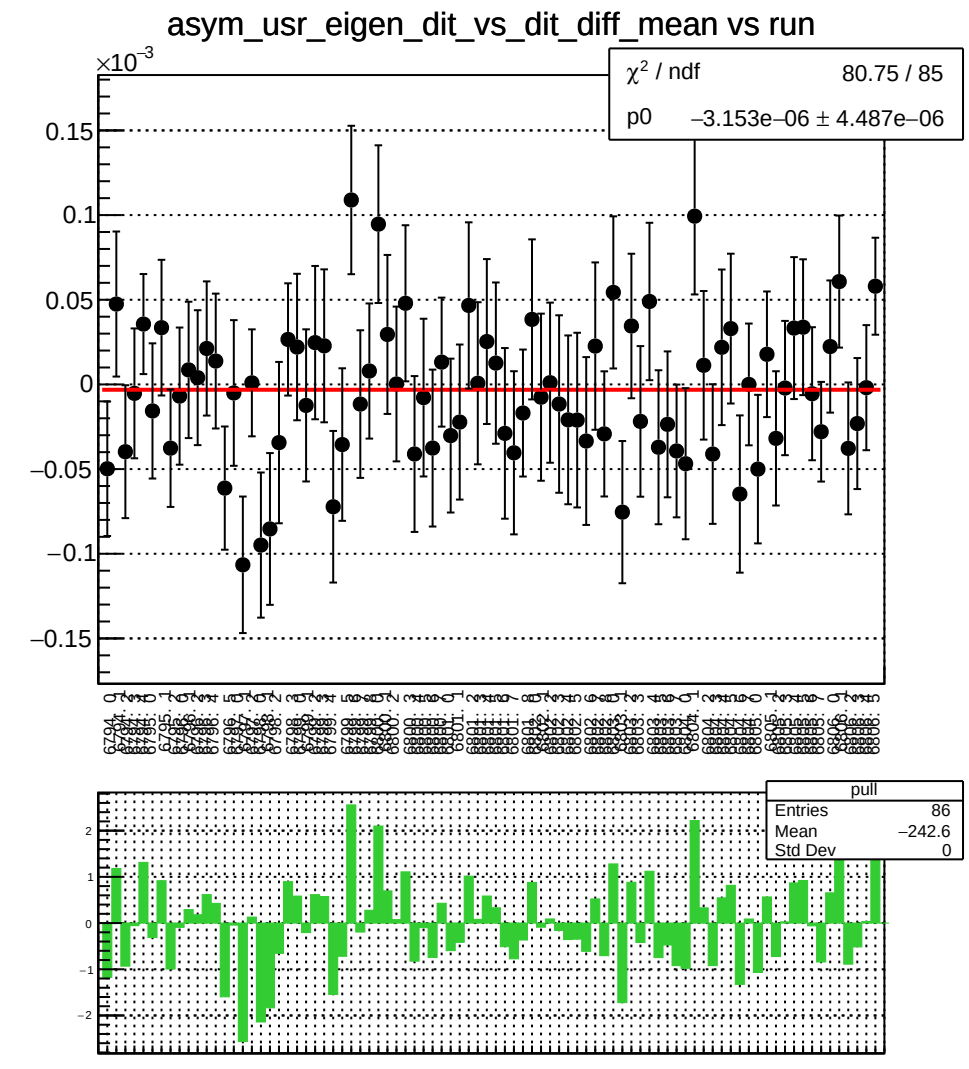

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.2046 ± 0.08061
pull
Entries 86
Mean 1605
Std Dev 0

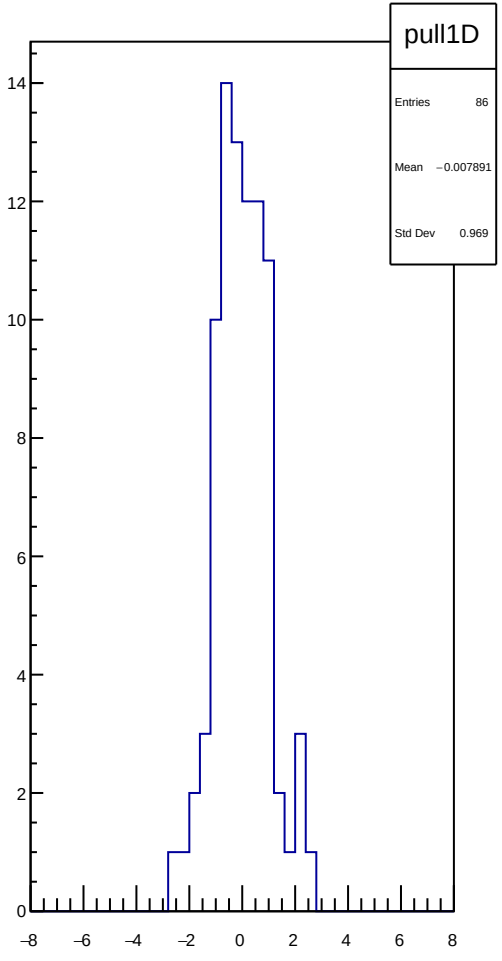

pull1D
Entries 86
Mean −0.0004483
Std Dev 1.047

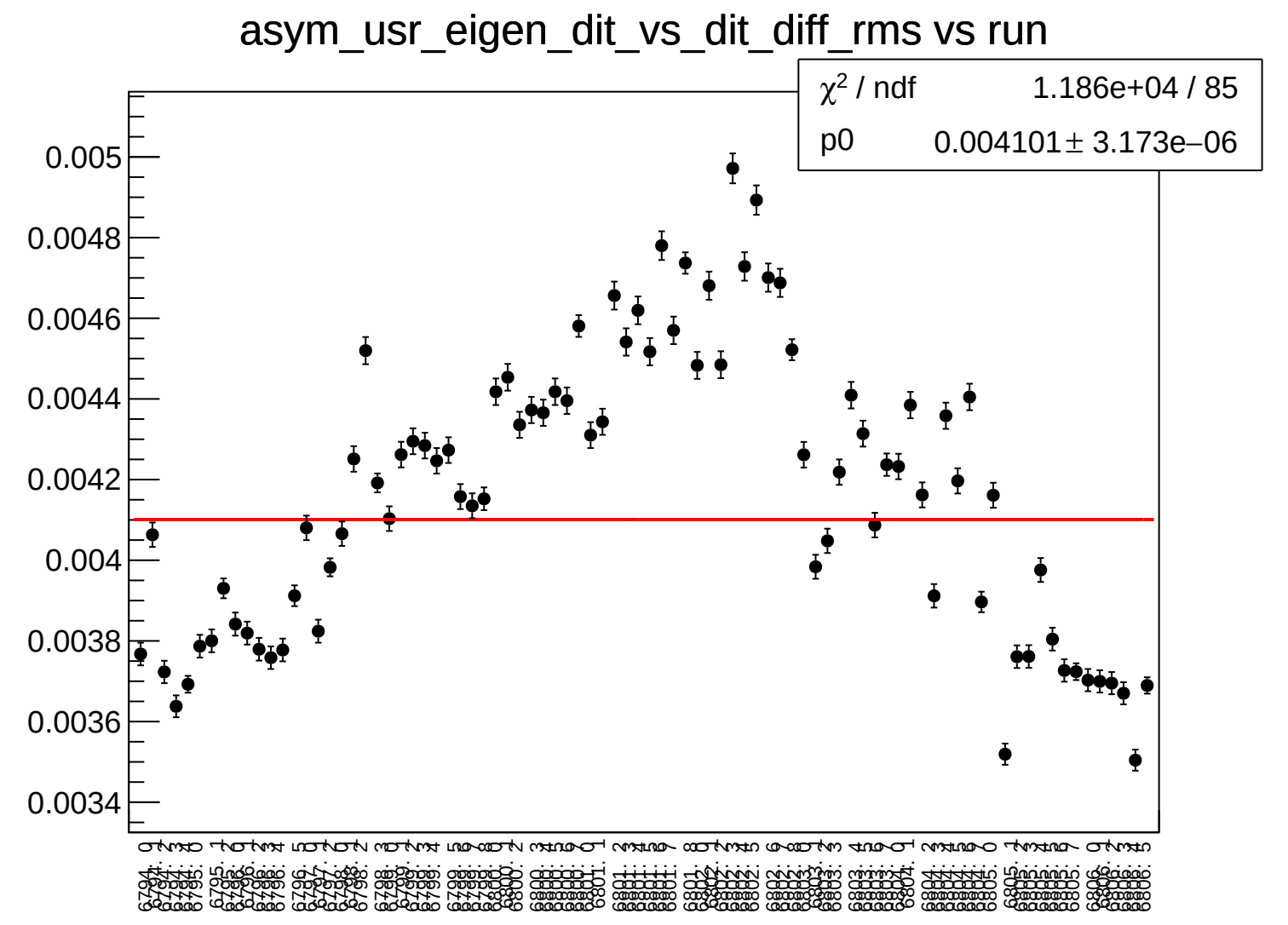

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.396e+04 / 85
p0 72.96 ± 0.057
130
120
110
100
90
80
70
60
50

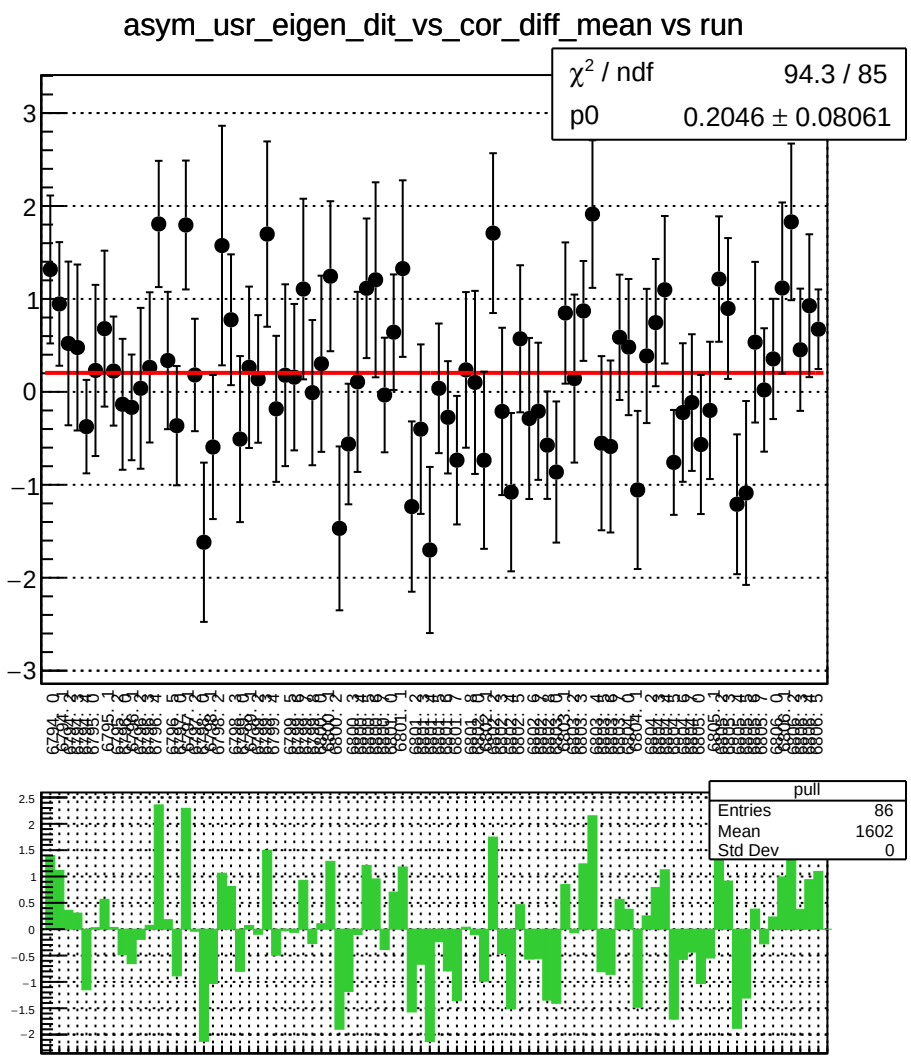

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.68 / 85
p0 0.2133 ± 0.113
pull
Entries 86
Mean −959
Std Dev 0
pull1D
Entries 86
Mean −0.002091
Std Dev 1.066

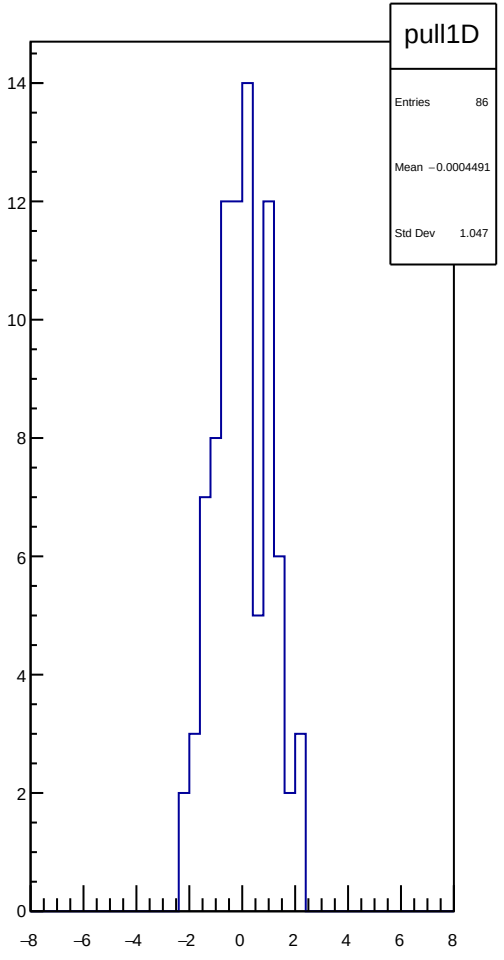

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.475e+04 / 85
p0 103.2 ± 0.0799
140
130
120
110
100
90
80

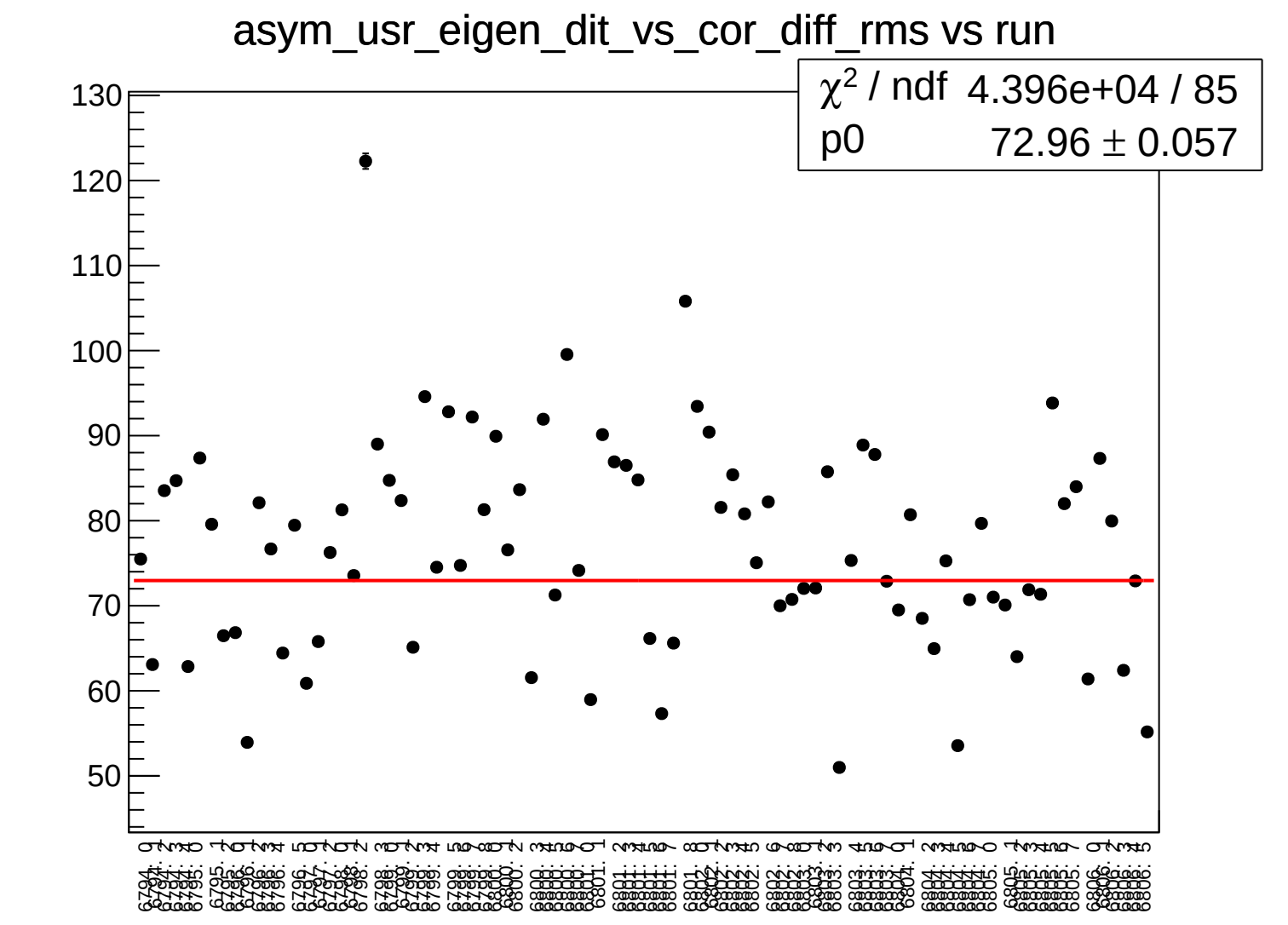

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.75 / 85
p0 −3.153e−06 ± 4.487e−06
pull
Entries 86
Mean −242.6
Std Dev 0

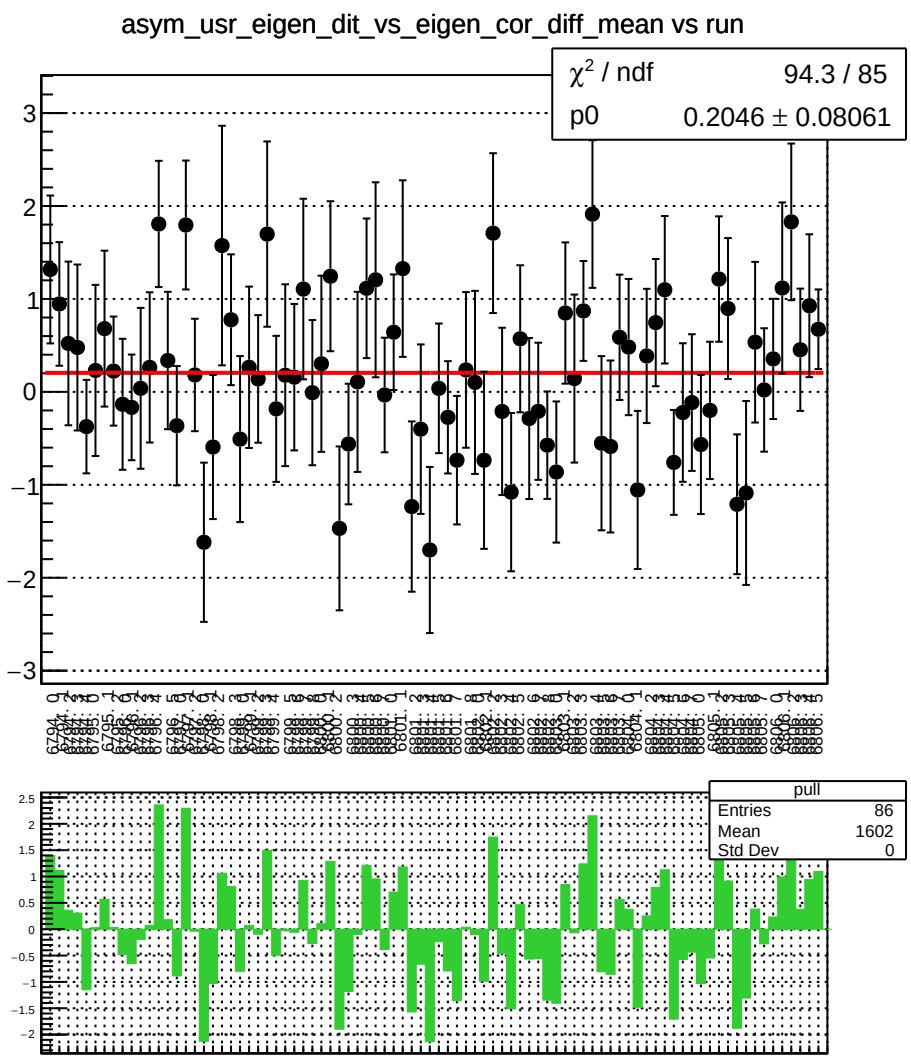

pull1D
Entries 86
Mean −0.007891
Std Dev 0.969

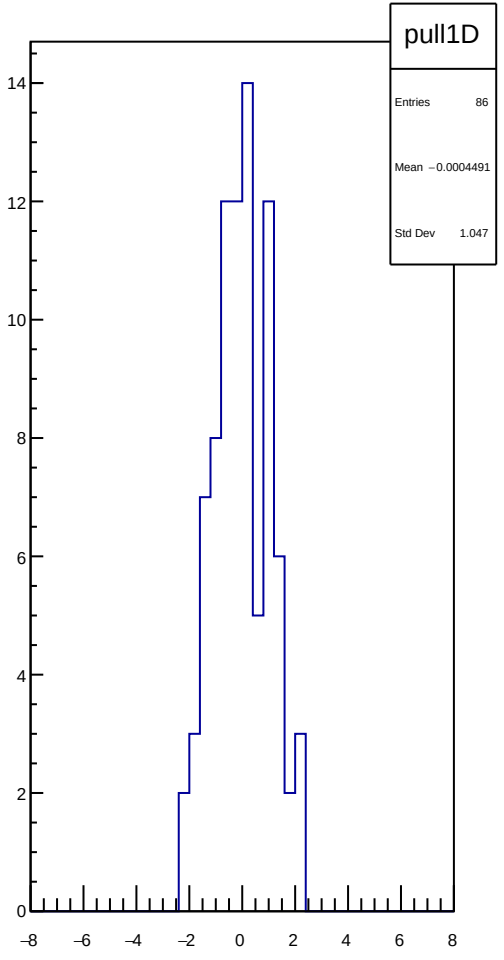

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.186e+04 / 85
p0 0.004101 ± 3.173e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

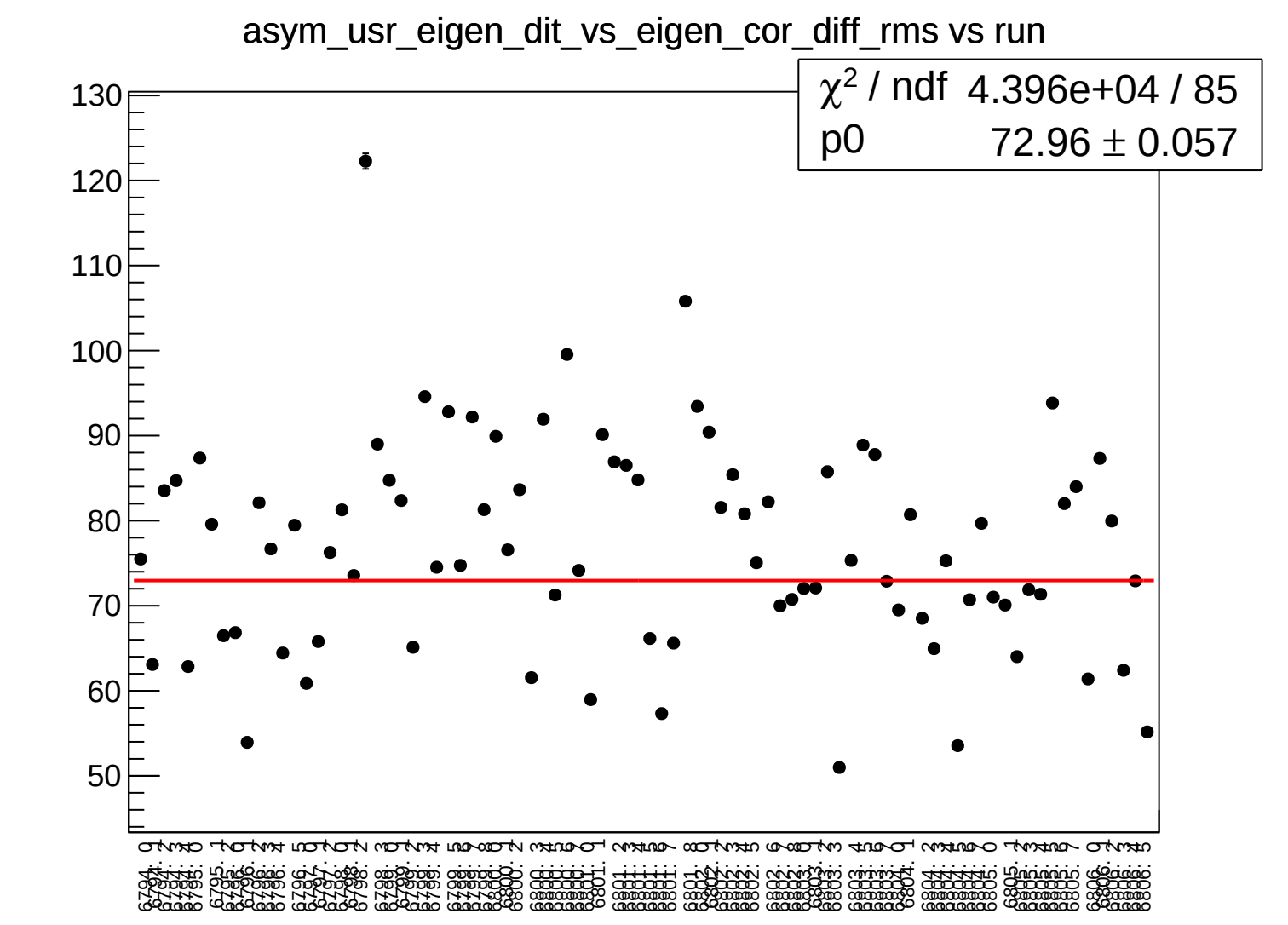

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.2046 ± 0.08061
pull
Entries 86
Mean 1602
Std Dev 0

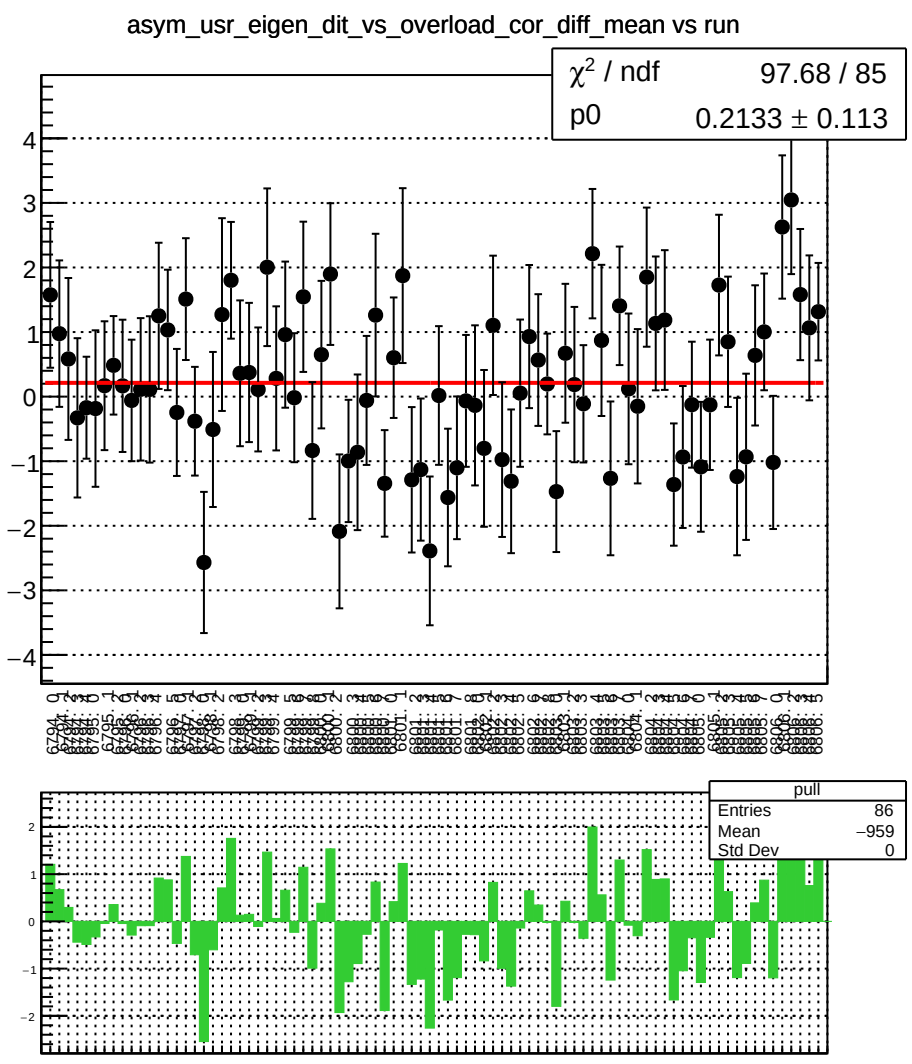

pull1D
Entries 86
Mean −0.0004491
Std Dev 1.047

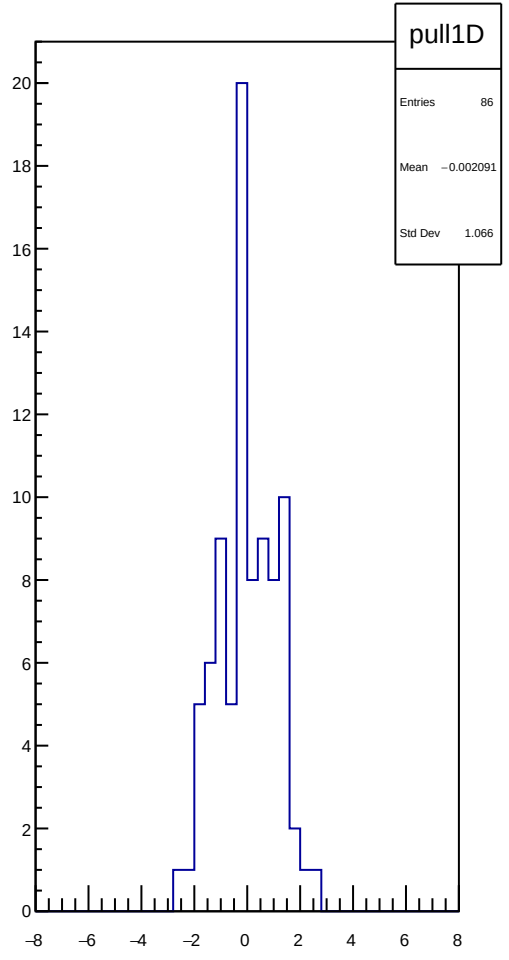

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.396e+04 / 85
p0 72.96 ± 0.057
130
120
110
100
90
80
70
60
50

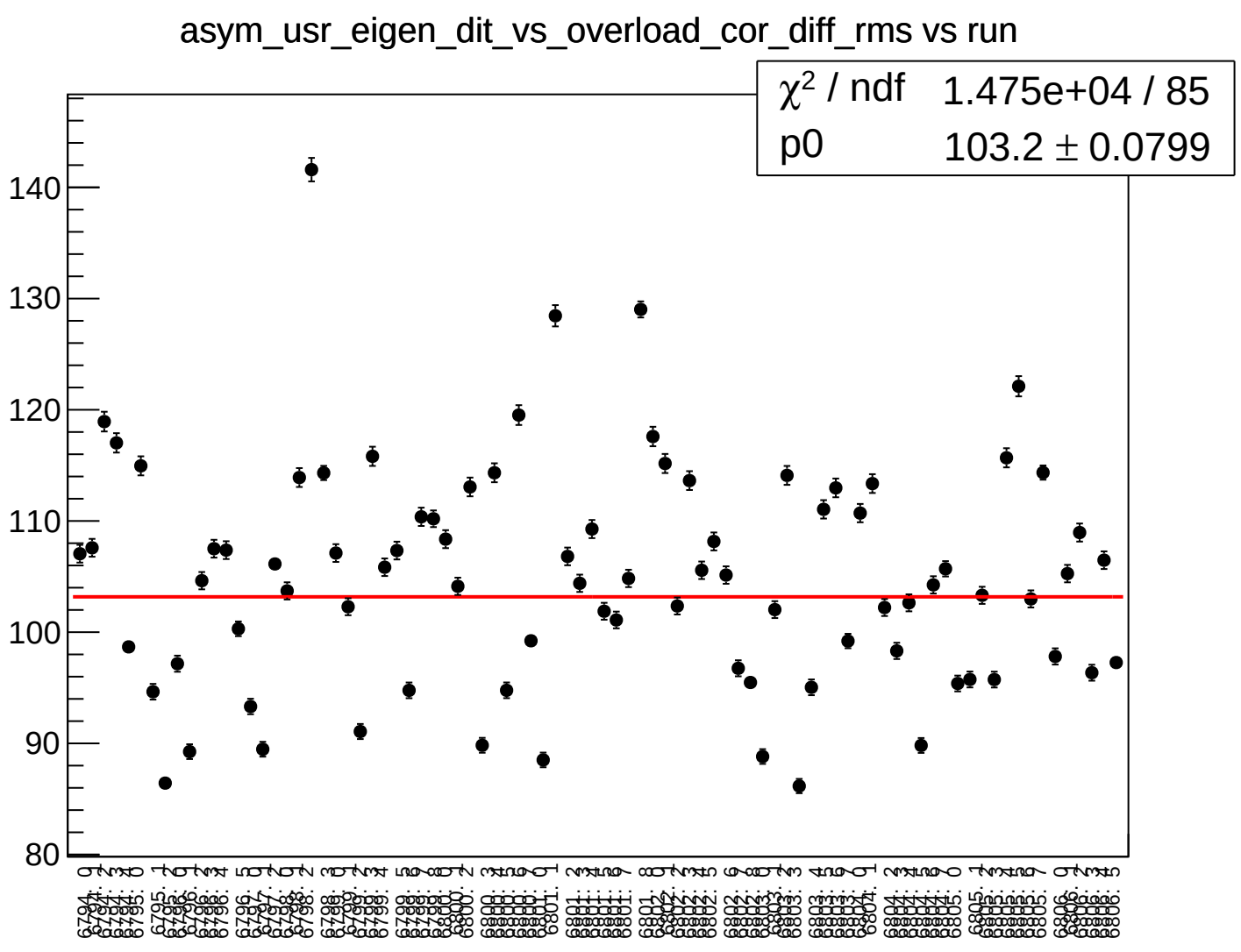

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.2046 ± 0.08061
pull
Entries 86
Mean 1602
Std Dev 0

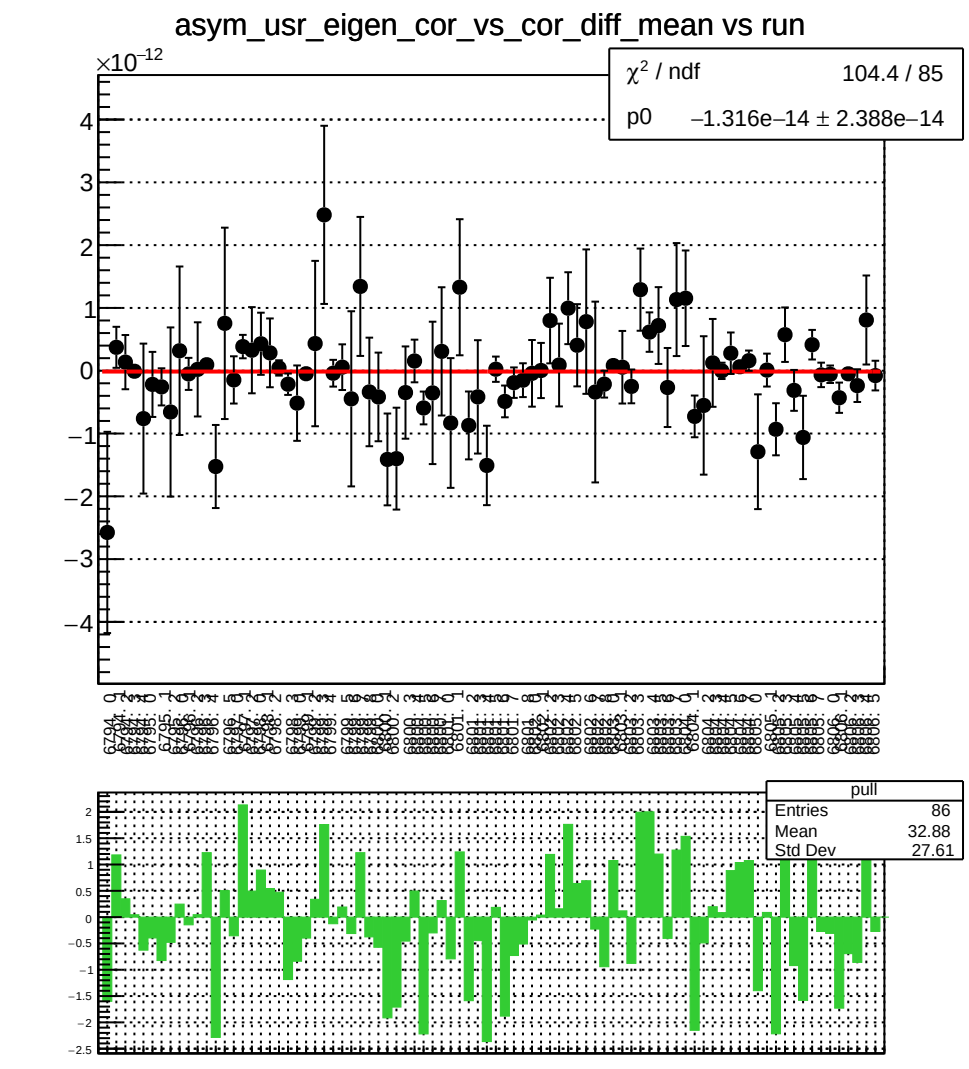

pull1D
Entries 86
Mean −0.0004491
Std Dev 1.047

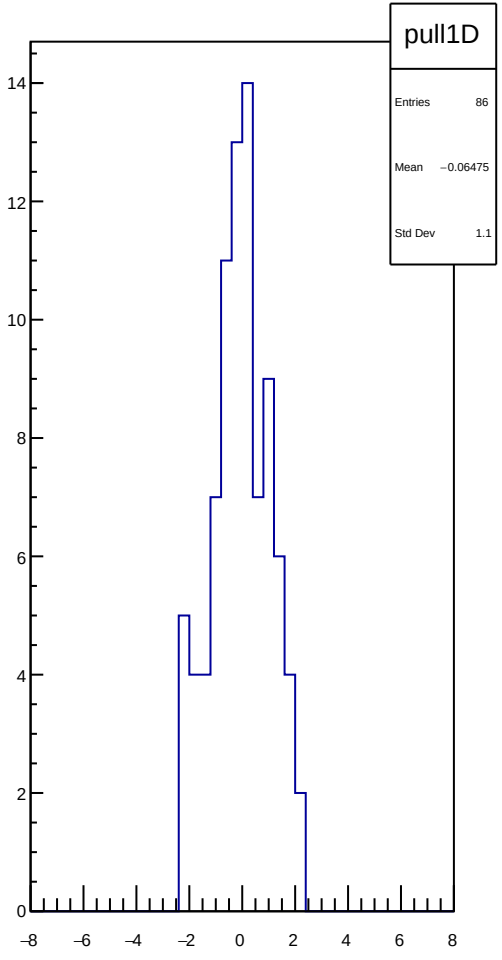

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.396e+04 / 85
p0 72.96 ± 0.057
130
120
110
100
90
80
70
60
50

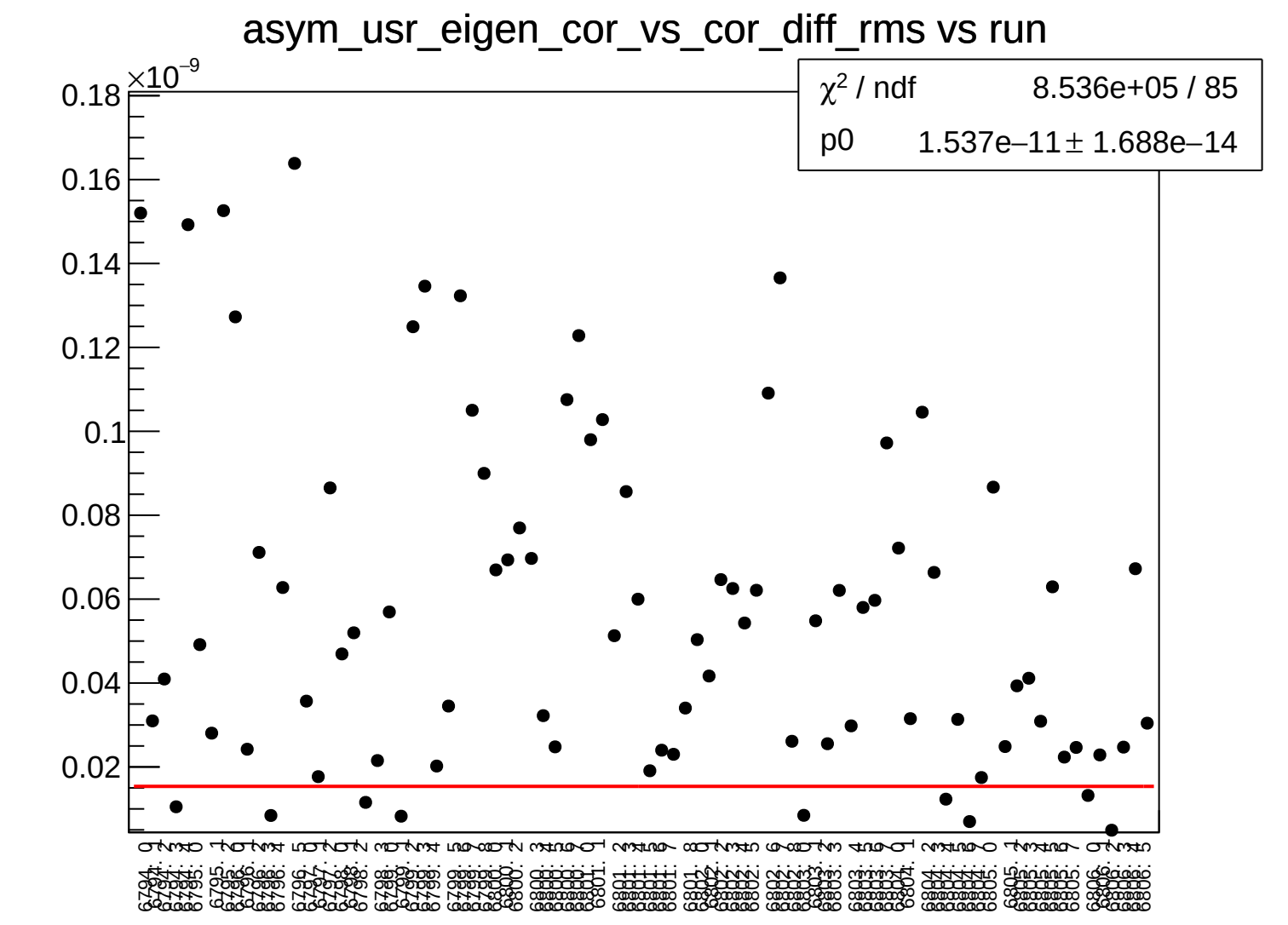

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 97.68 / 85
p0 0.2133 ± 0.113
pull
Entries 86
Mean −959
Std Dev 0

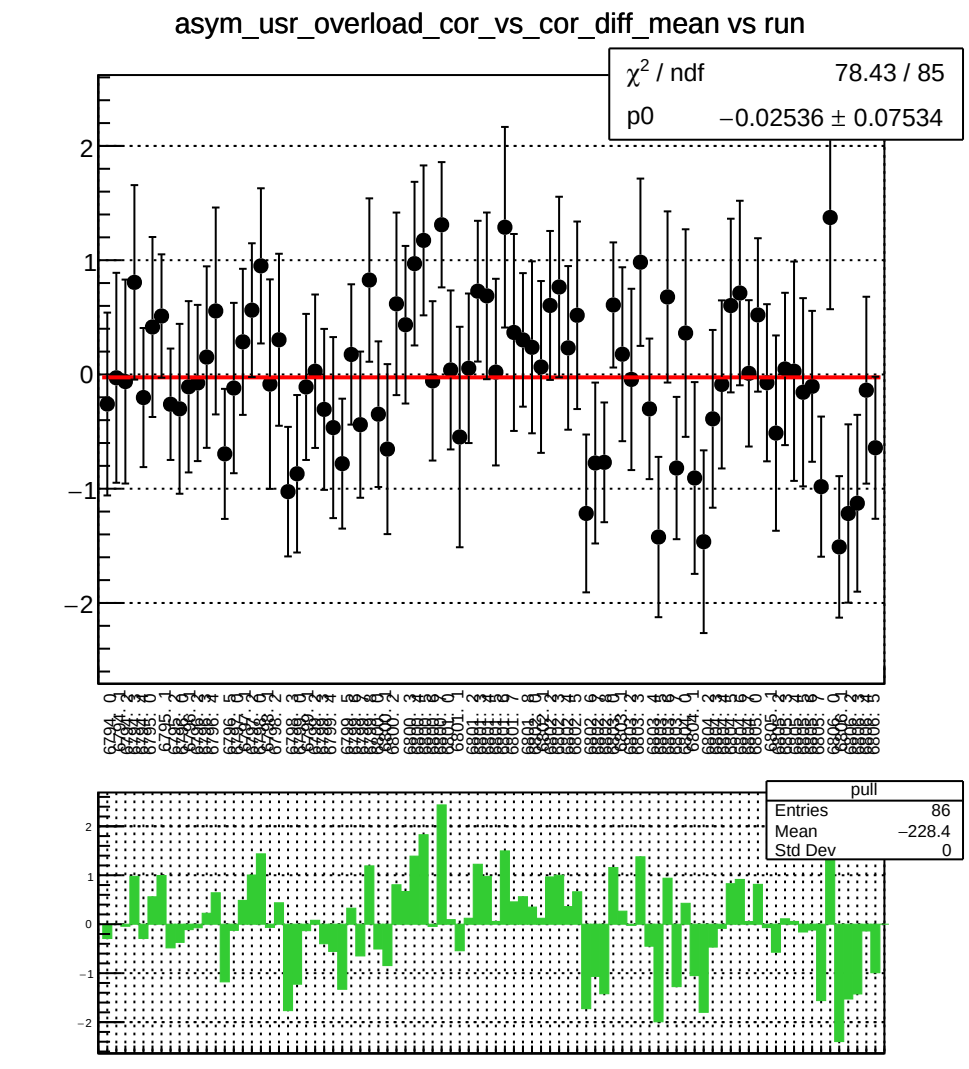

pull1D
Entries 86
Mean −0.002091
Std Dev 1.066

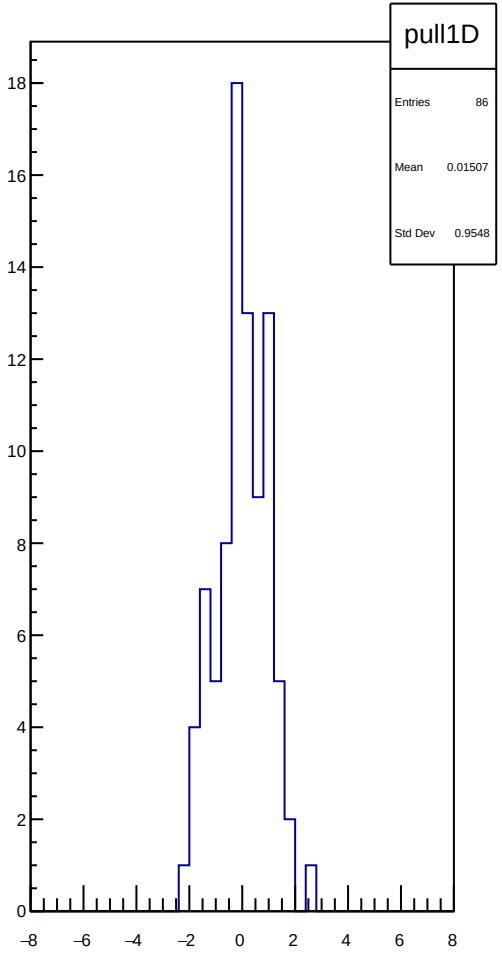

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.475e+04 / 85
p0 103.2 ± 0.0799
140
130
120
110
100
90
80

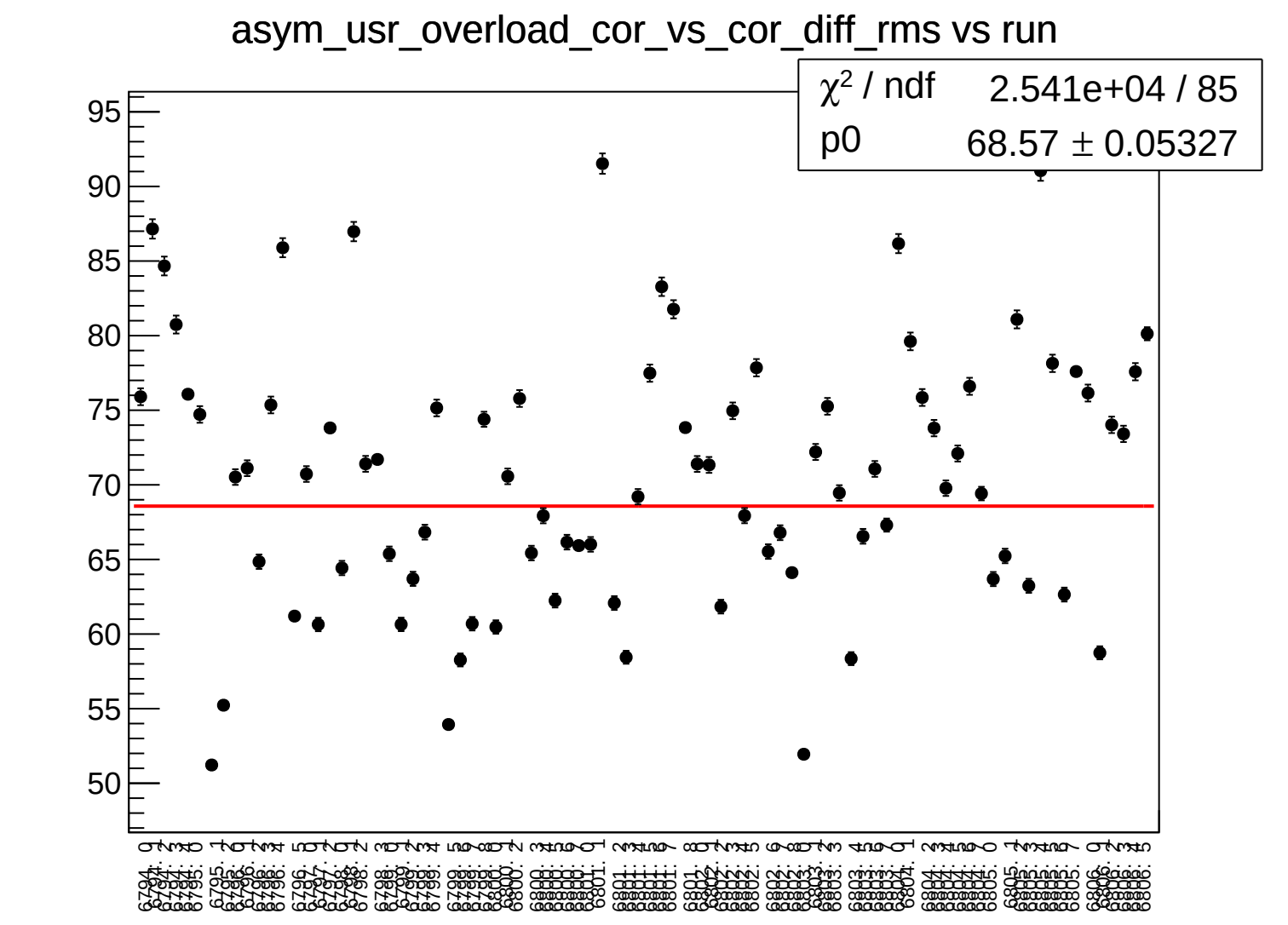

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.4 / 85
p0 −1.316e−14 ± 2.388e−14
pull
Entries 86
Mean 32.88
Std Dev 27.61


pull1D
Entries 86
Mean −0.06475
Std Dev 1.1

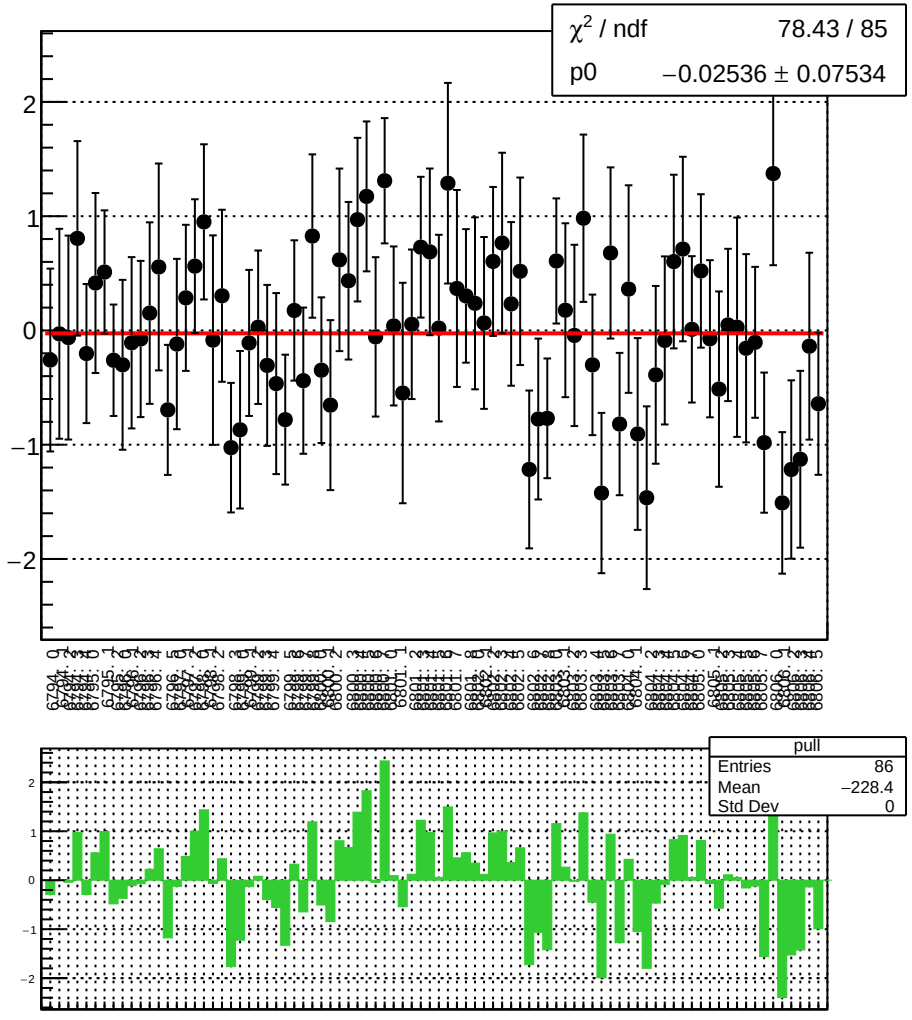

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 8.536e+05 / 85
p0 1.537e−11 ± 1.688e−14

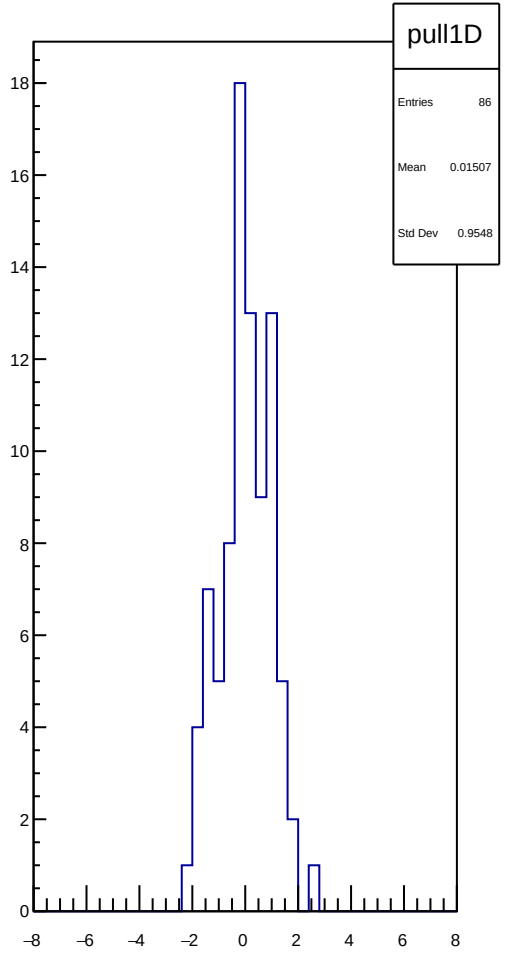

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 78.43 / 85
p0 −0.02536 ± 0.07534
pull
Entries 86
Mean −228.4
Std Dev 0

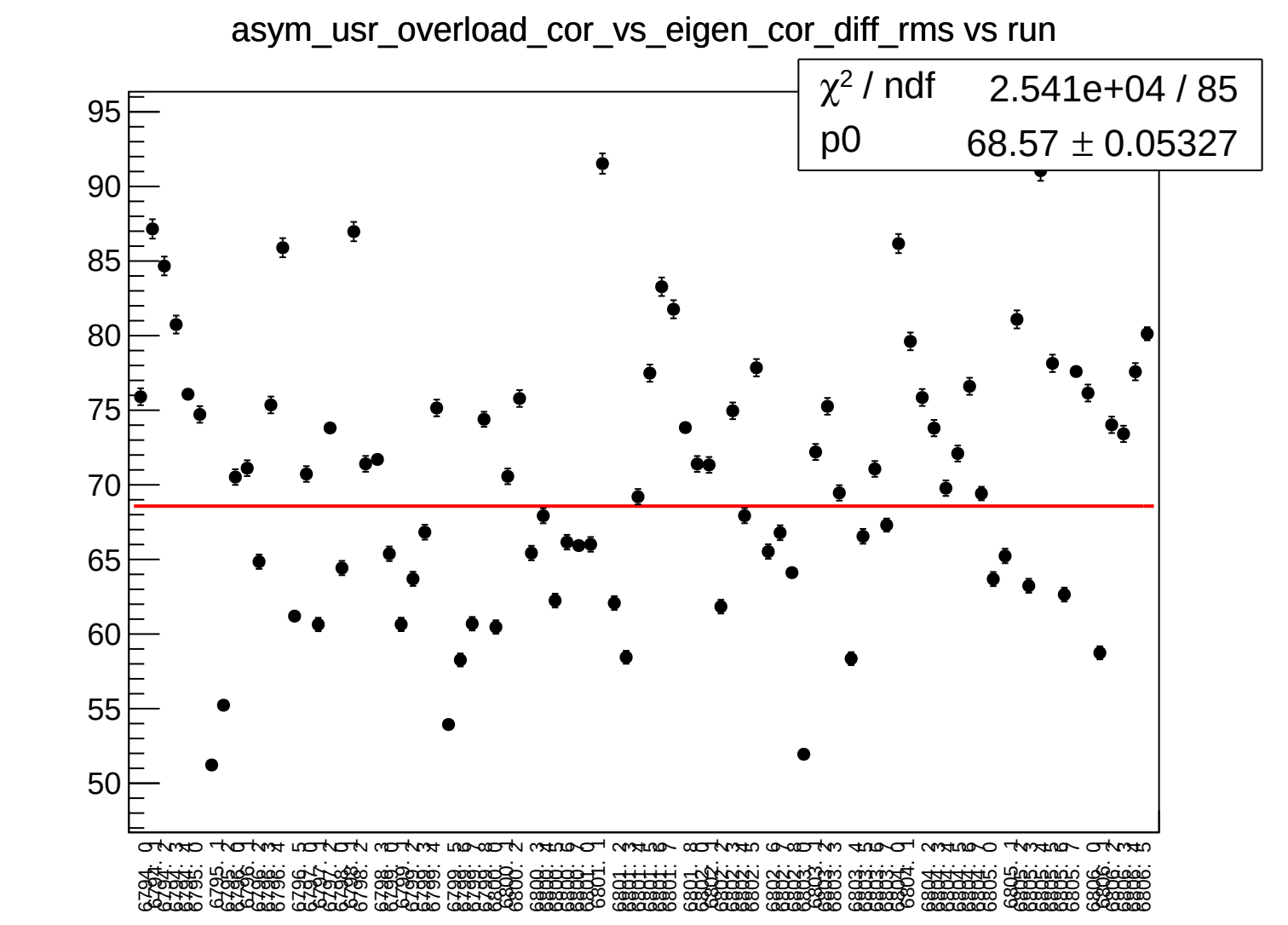

pull1D
Entries 86
Mean 0.01507
Std Dev 0.9548

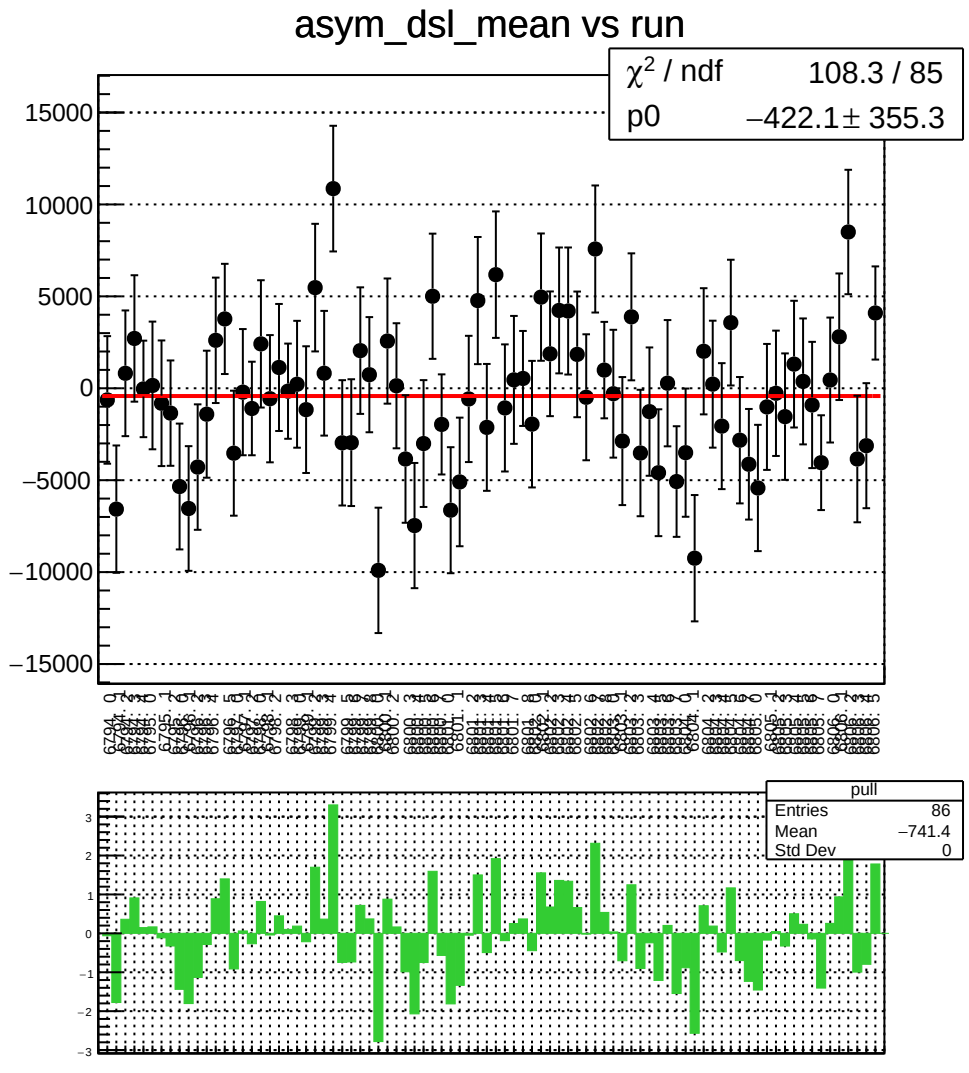

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 85
p0 68.57 ± 0.05327
95
90
85
80
75
70
65
60
55
50

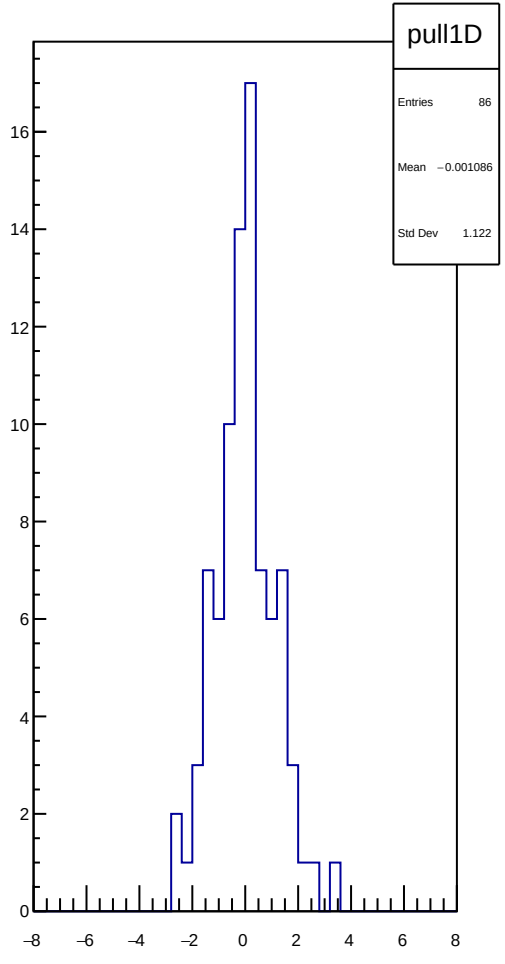
asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run

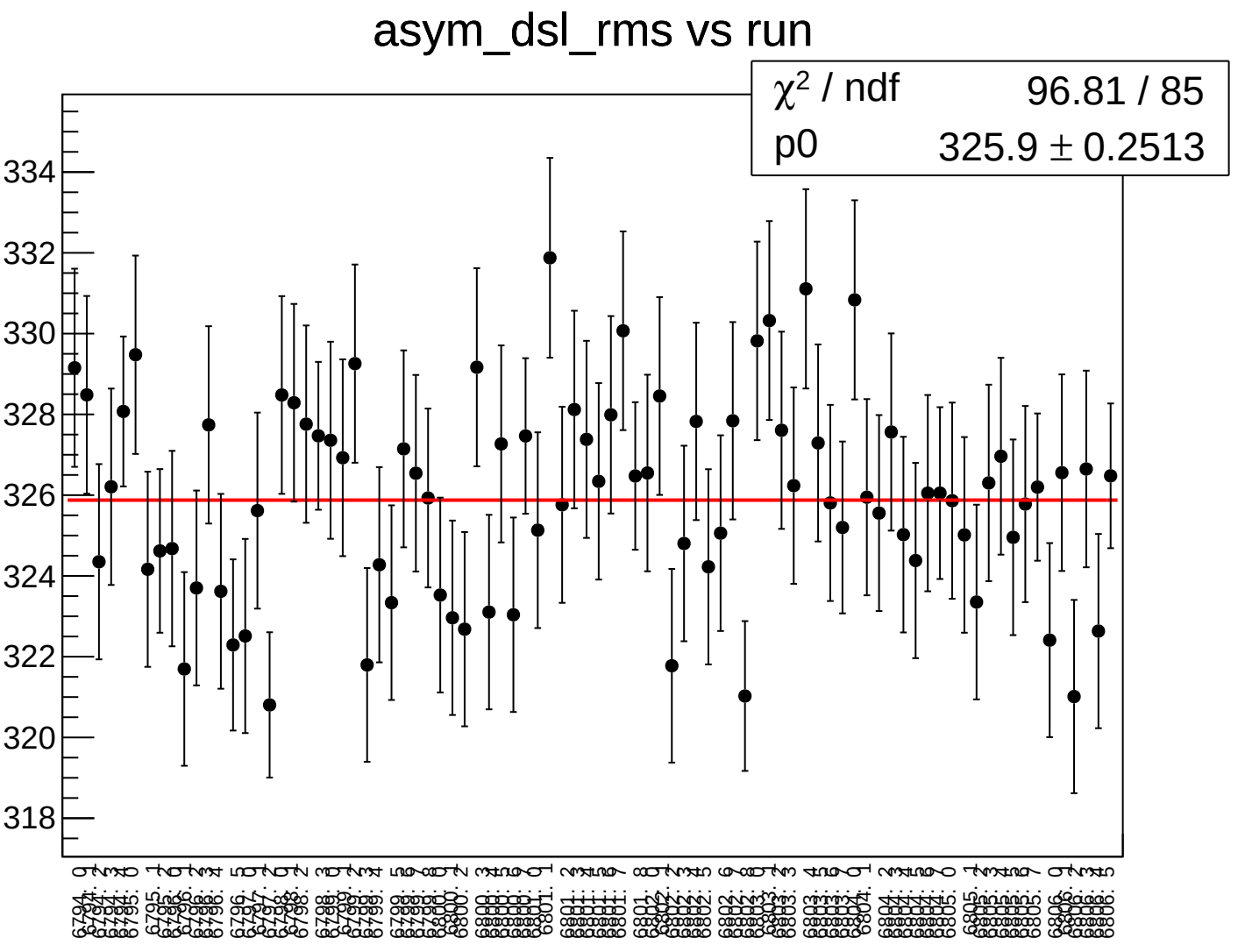


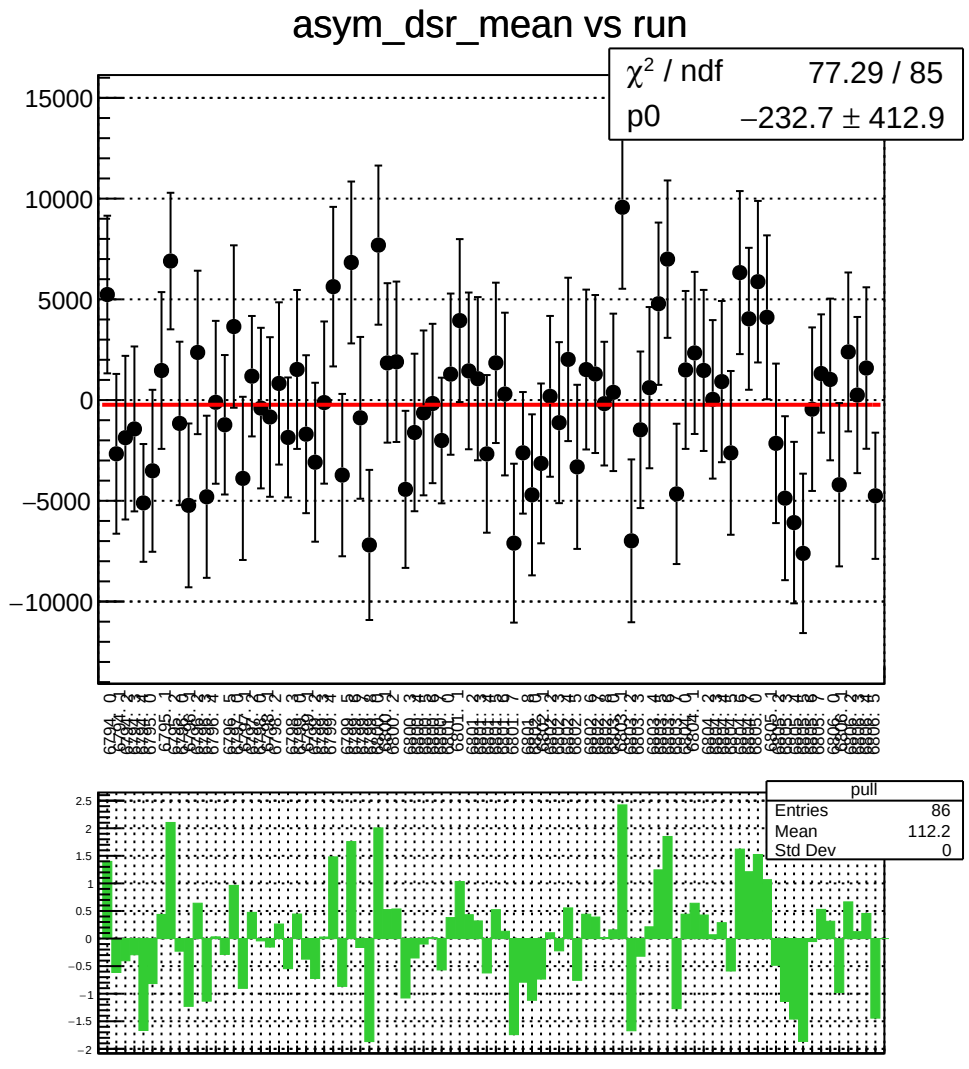


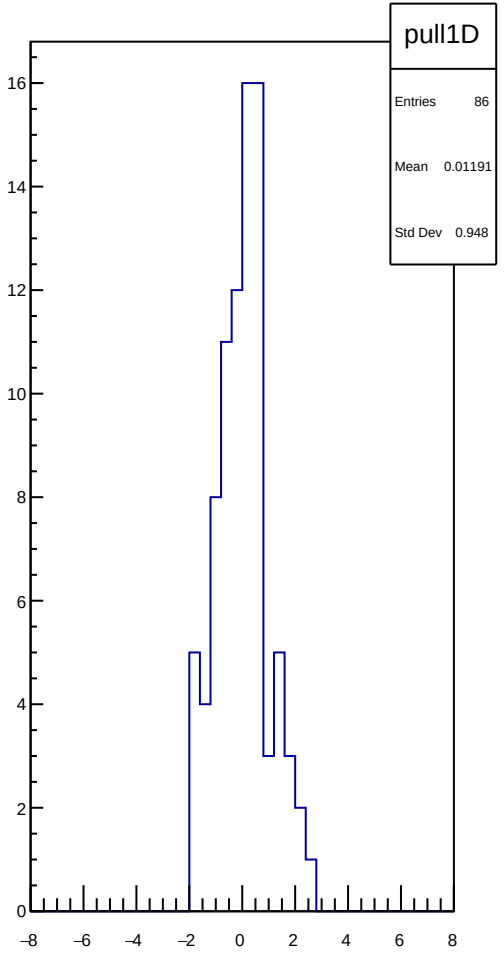

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.541e+04 / 85
p0 68.57 ± 0.05327
95
90
85
80
75
70
65
60
55
50

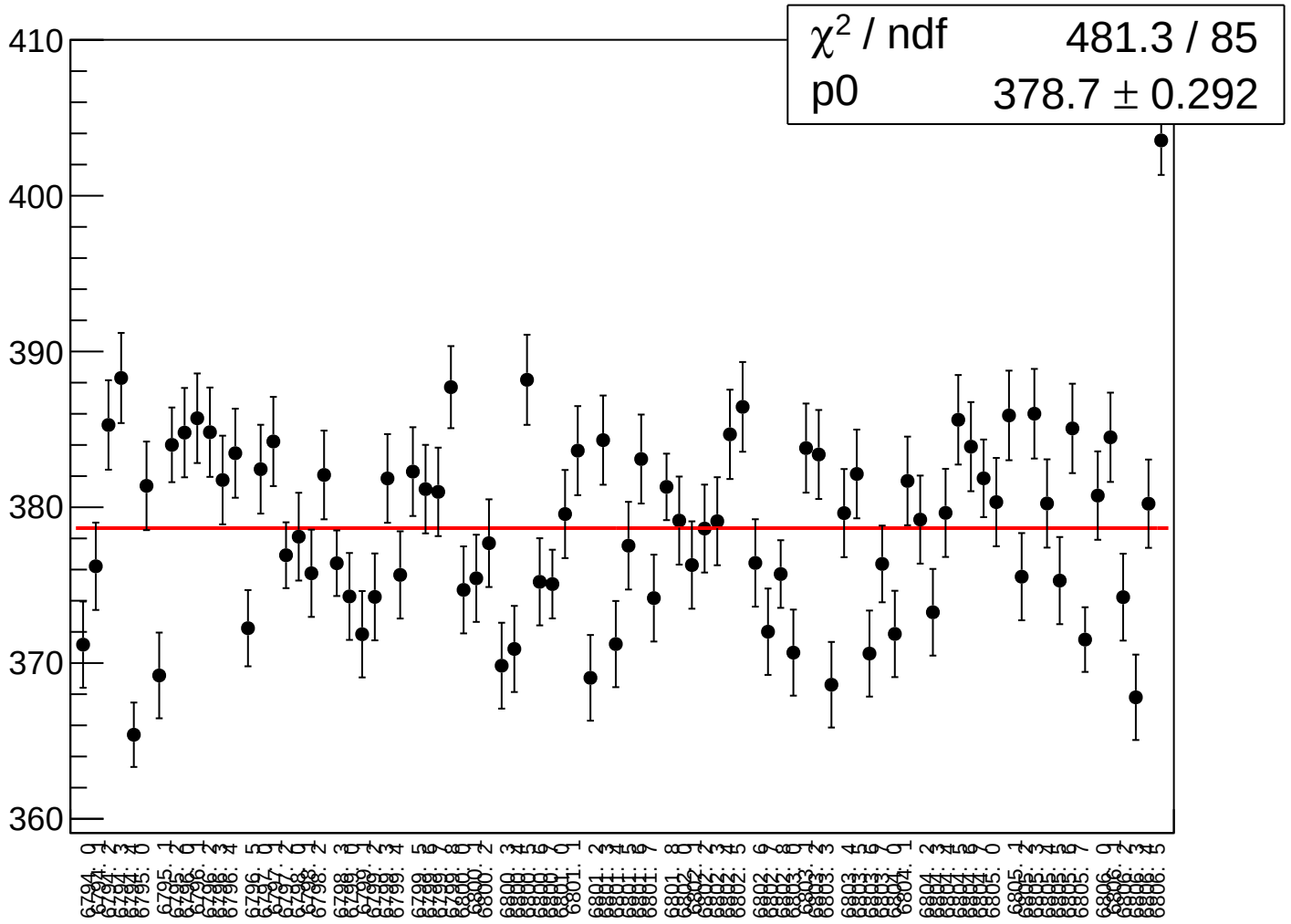

asym_dsl_mean vs run
χ² / ndf 108.3 / 85
p0 −422.1± 355.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −741.4
Std Dev 0
3
2
1
0
−1
−2
−3

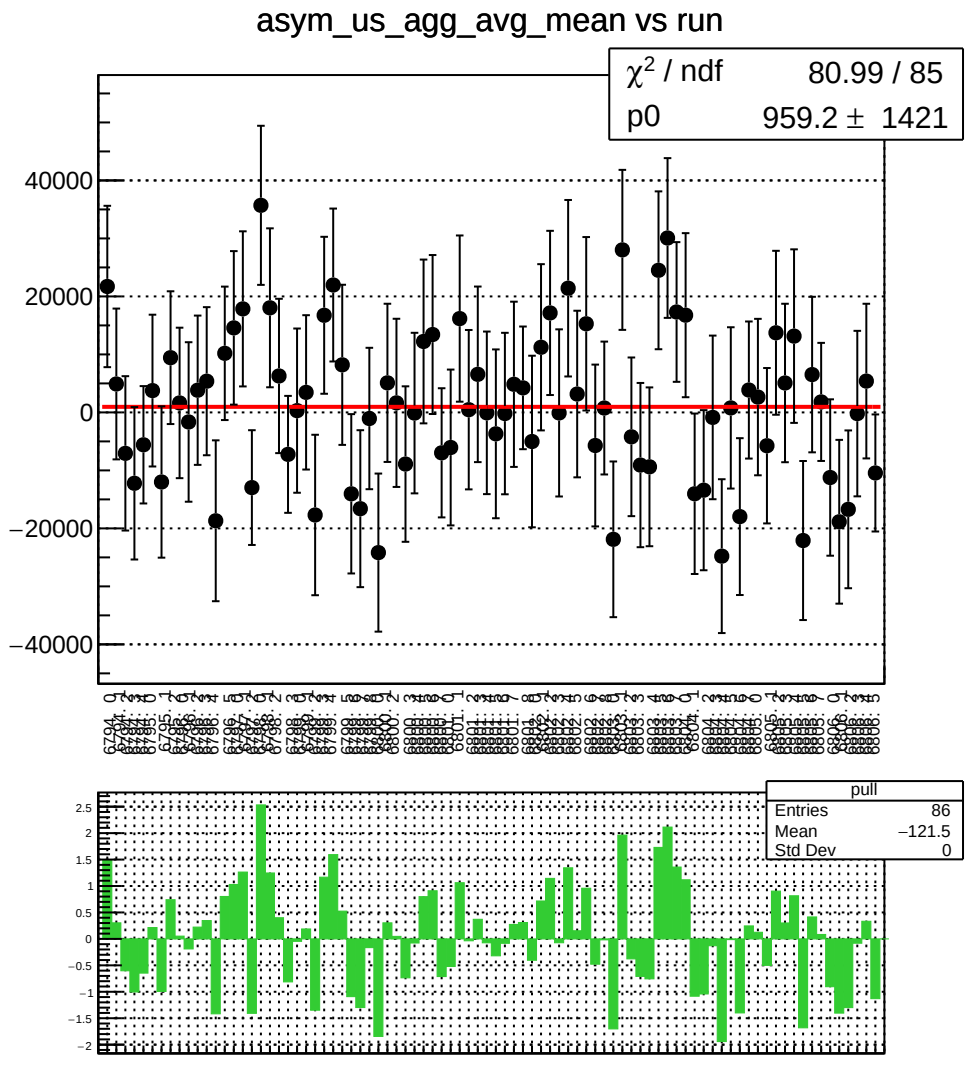

pull1D
Entries 86
Mean −0.001086
Std Dev 1.122
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

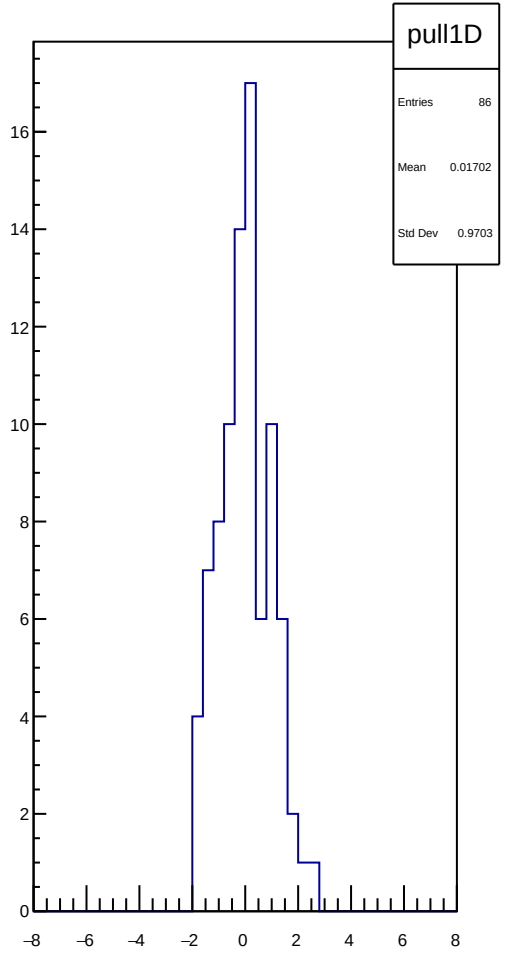

asym_dsl_rms vs run
χ² / ndf 96.81 / 85
p0 325.9 ± 0.2513
334
332
330
328
326
324
322
320
318

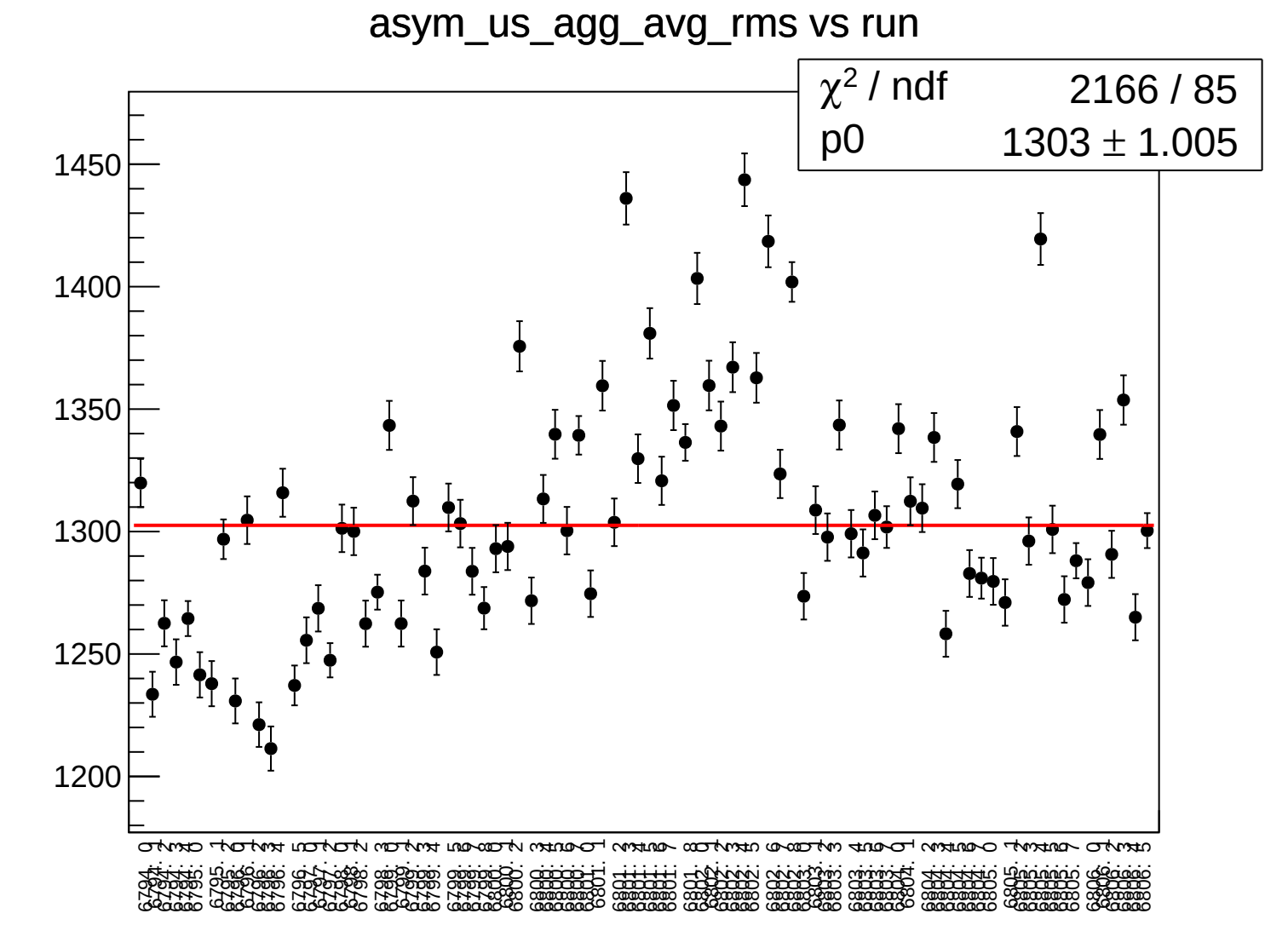

asym_dsr_mean vs run
χ² / ndf 77.29 / 85
p0 −232.7 ± 412.9
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 112.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

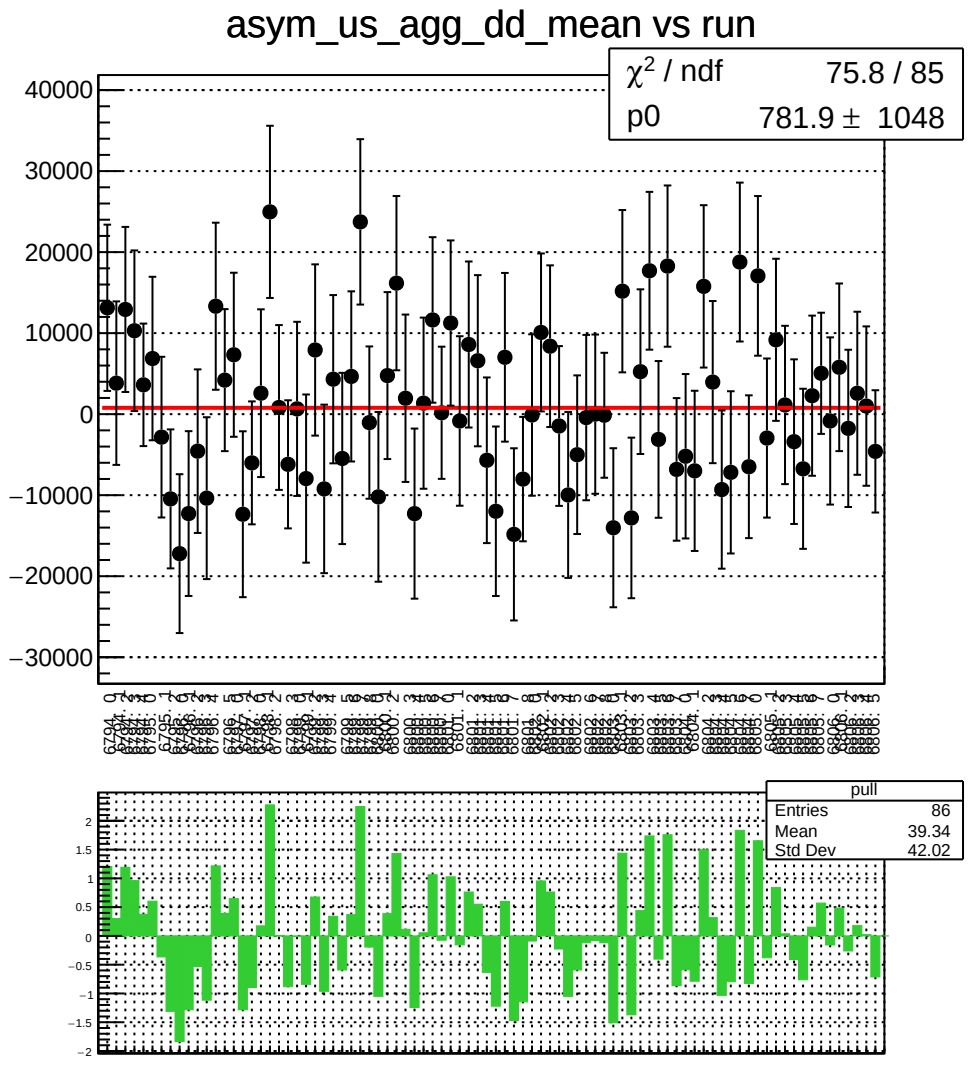

pull1D
Entries 86
Mean 0.01191
Std Dev 0.948
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

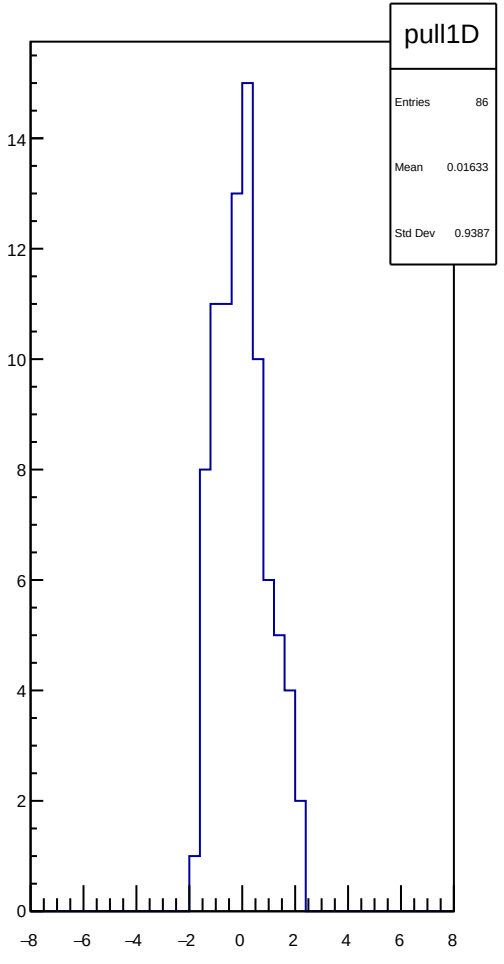

asym_dsr_rms vs run
χ^2 / ndf 481.3 / 85
p0 378.7 ± 0.292
410
400
390
380
370
360

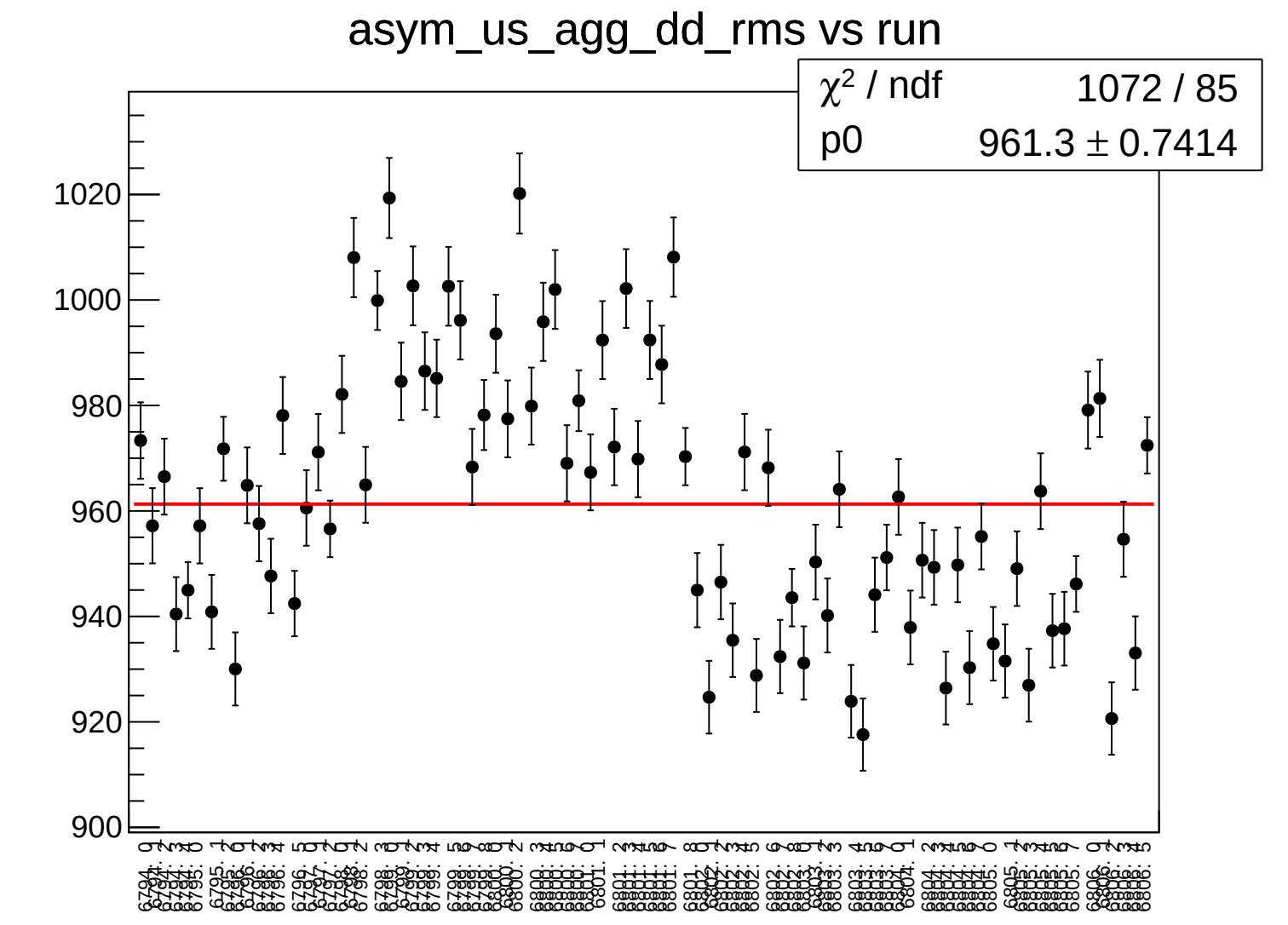

asym_us_agg_avg_mean vs run
χ² / ndf 80.99 / 85
p0 959.2 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −121.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

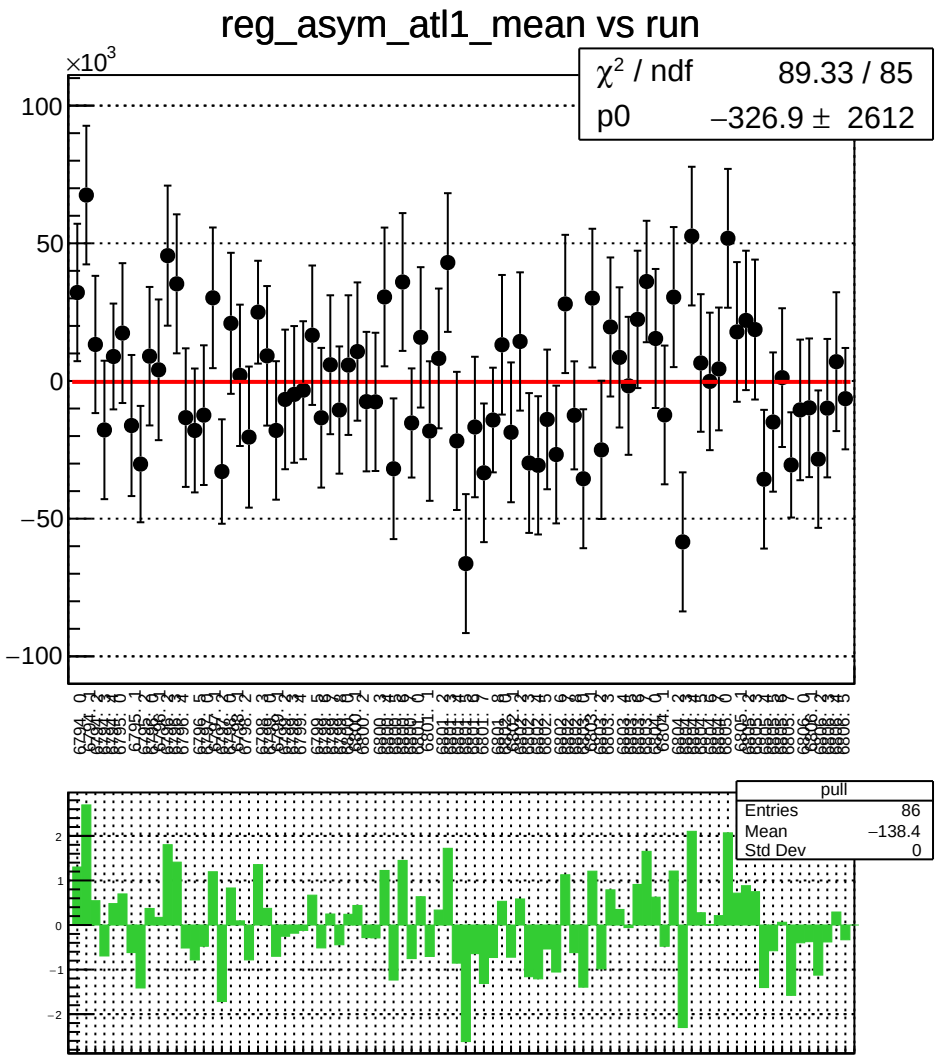

pull1D
Entries 86
Mean 0.01702
Std Dev 0.9703
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

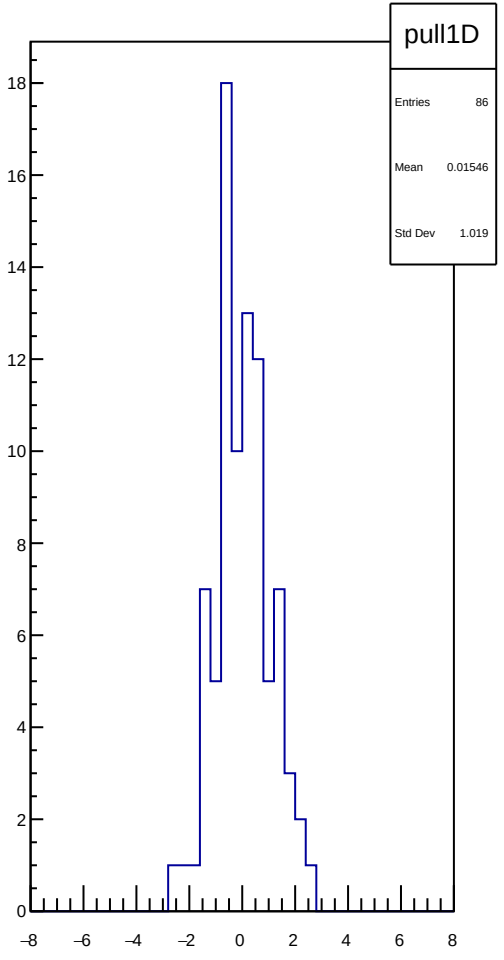

asym_us_agg_avg_rms vs run
χ² / ndf 2166 / 85
p0 1303 ± 1.005
1450
1400
1350
1300
1250
1200

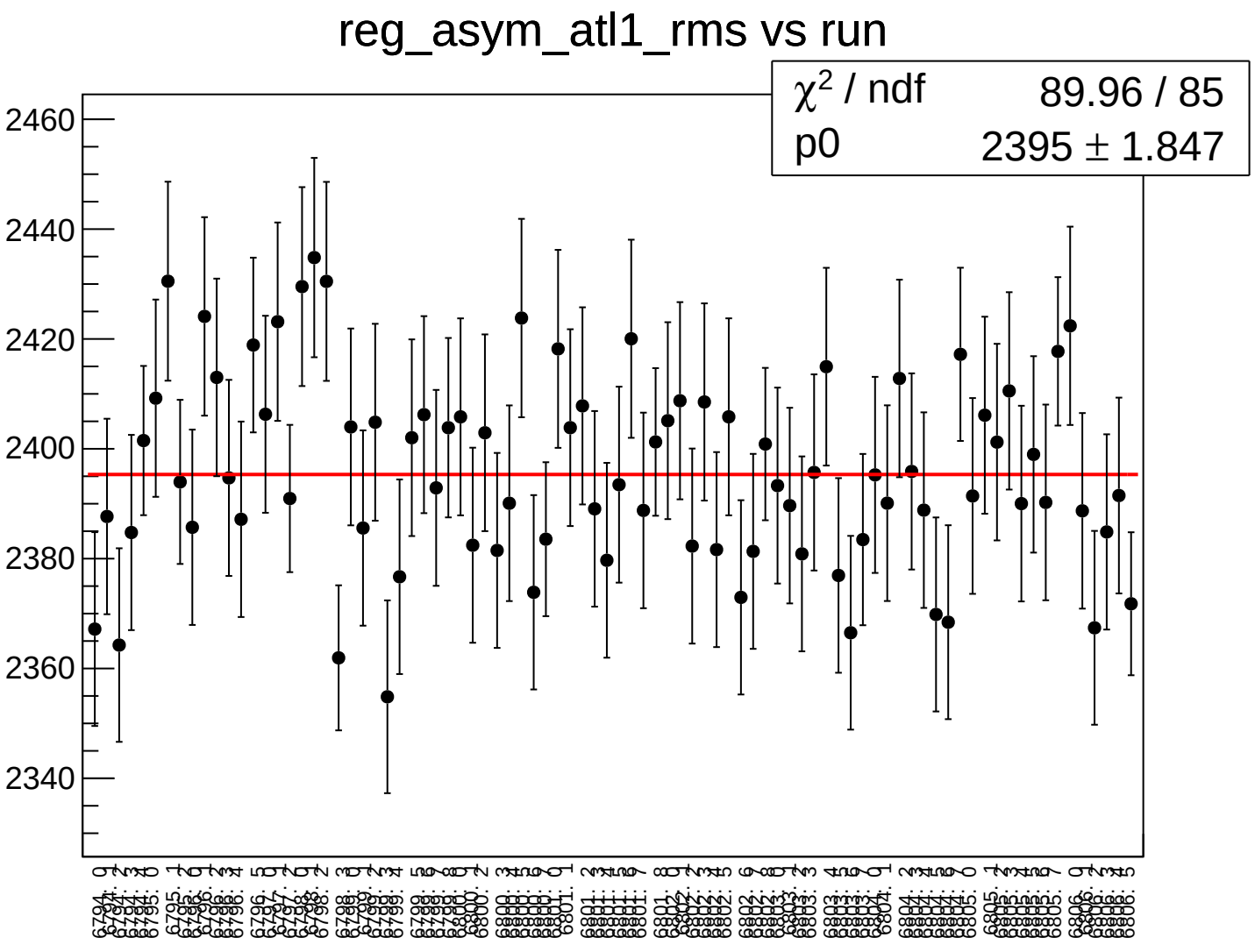

asym_us_agg_dd_mean vs run
χ² / ndf 75.8 / 85
p0 781.9 ± 1048
pull
Entries 86
Mean 39.34
Std Dev 42.02

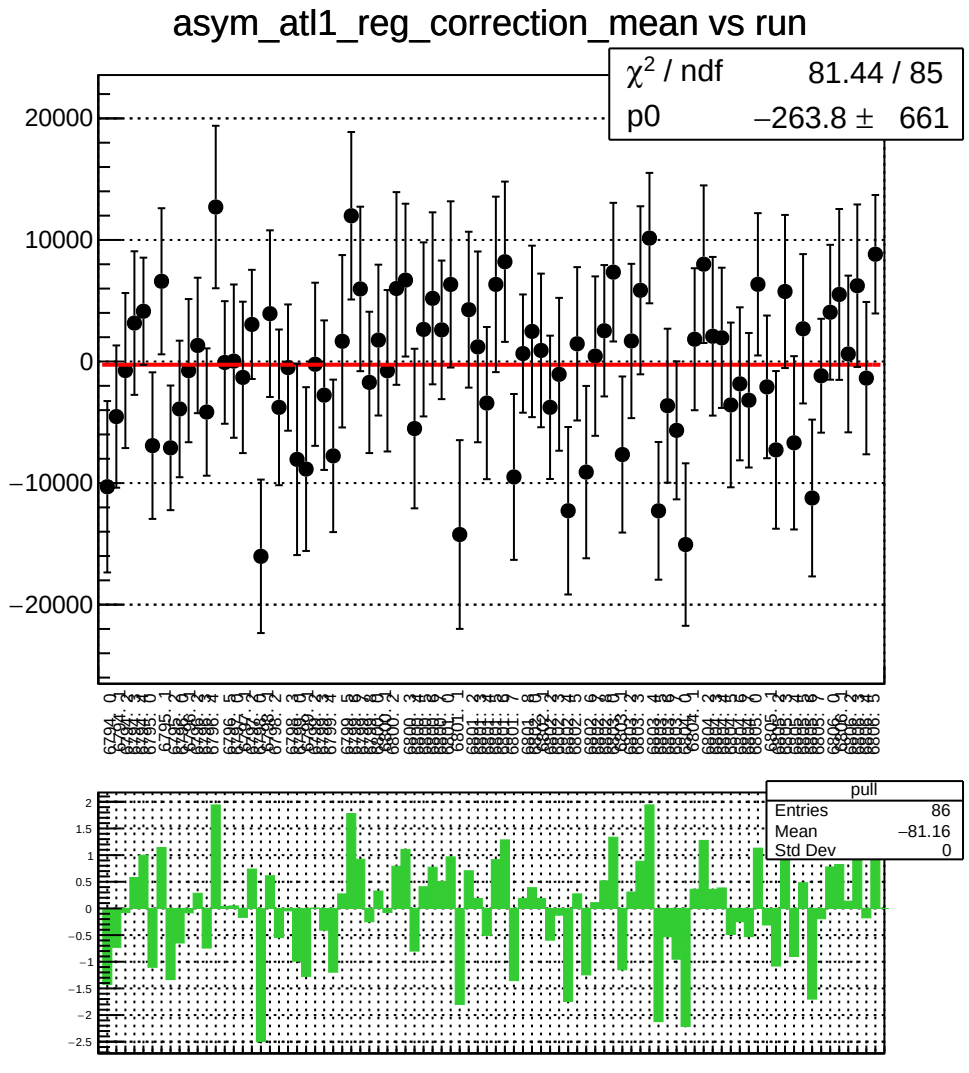

pull1D
Entries 86
Mean 0.01633
Std Dev 0.9387

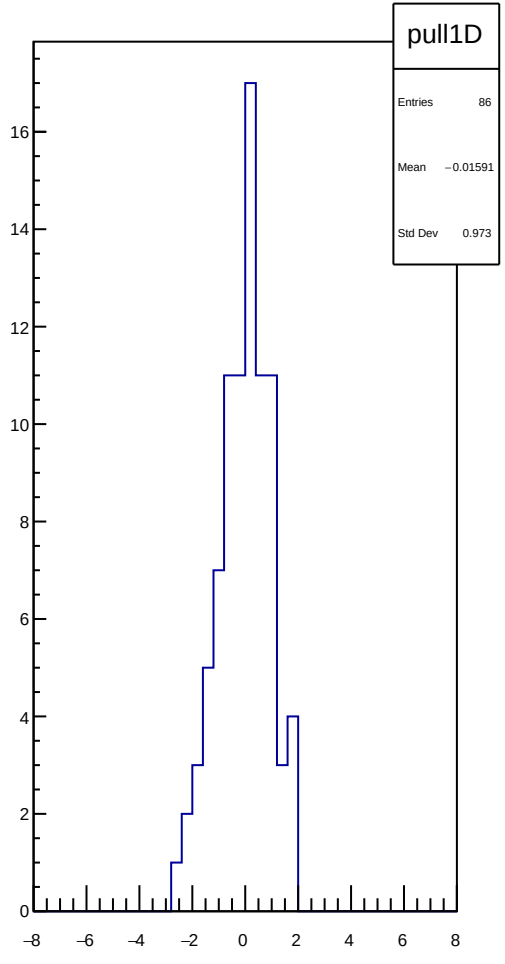

asym_us_agg_dd_rms vs run
χ² / ndf 1072 / 85
p0 961.3 ± 0.7414
1020
1000
980
960
940
920
900

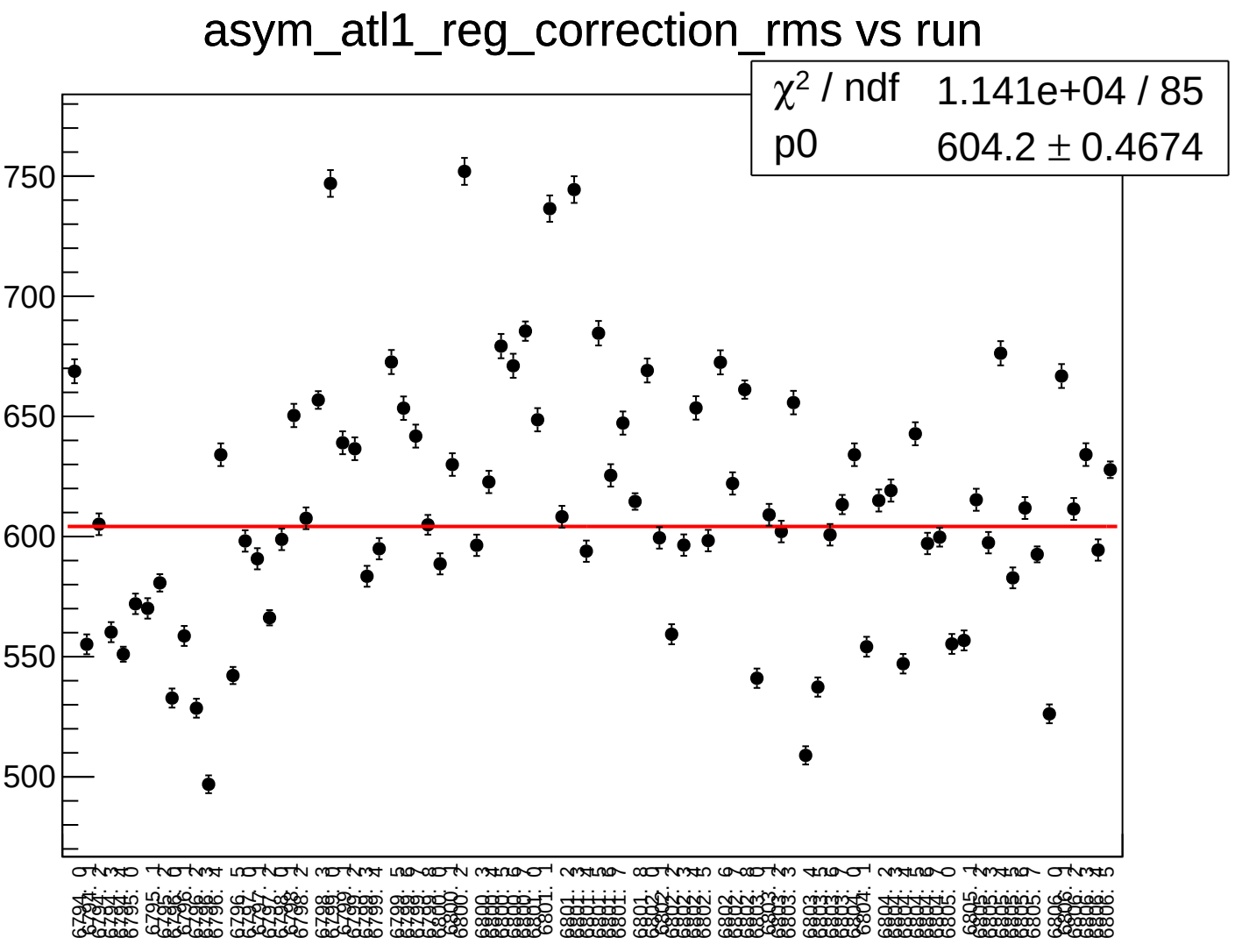

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 89.33 / 85
p0 −326.9 ± 2612
100
50
0
−50
−100
pull
Entries 86
Mean −138.4
Std Dev 0
2
1
0
−1
−2

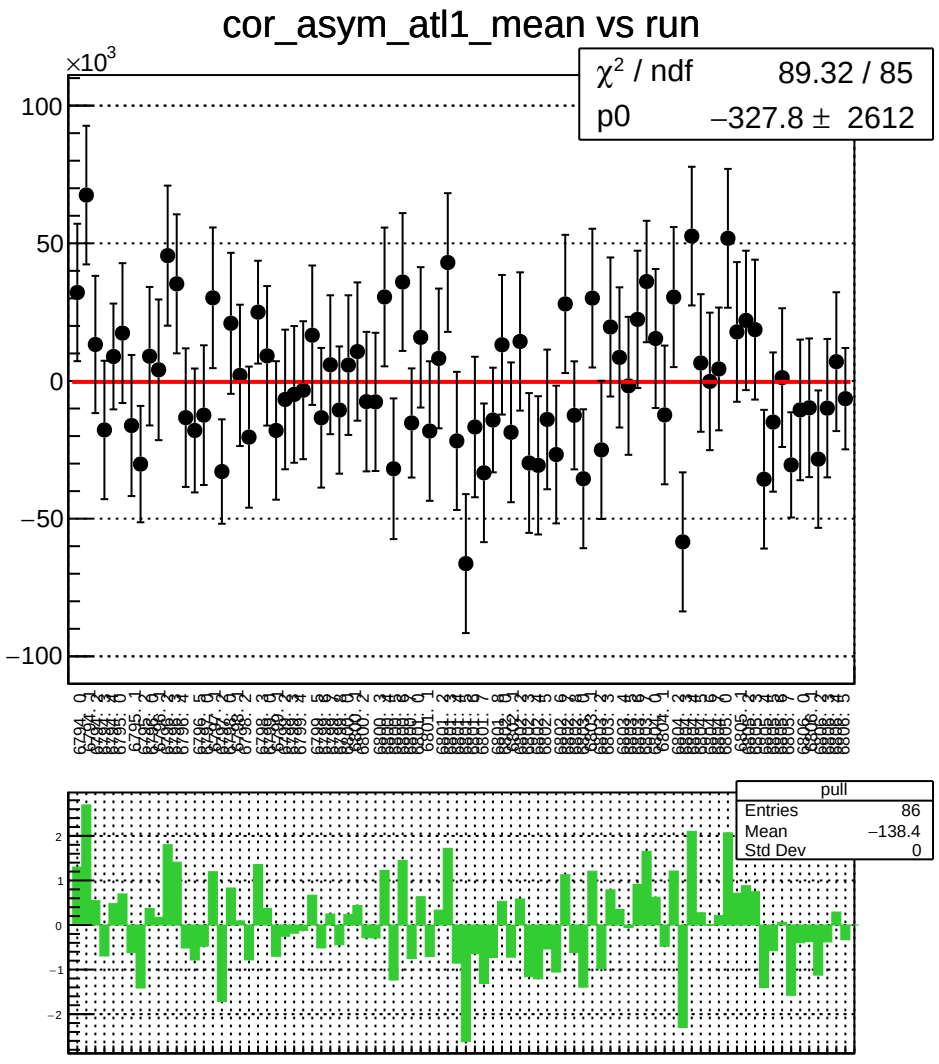

pull1D
Entries 86
Mean 0.01546
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

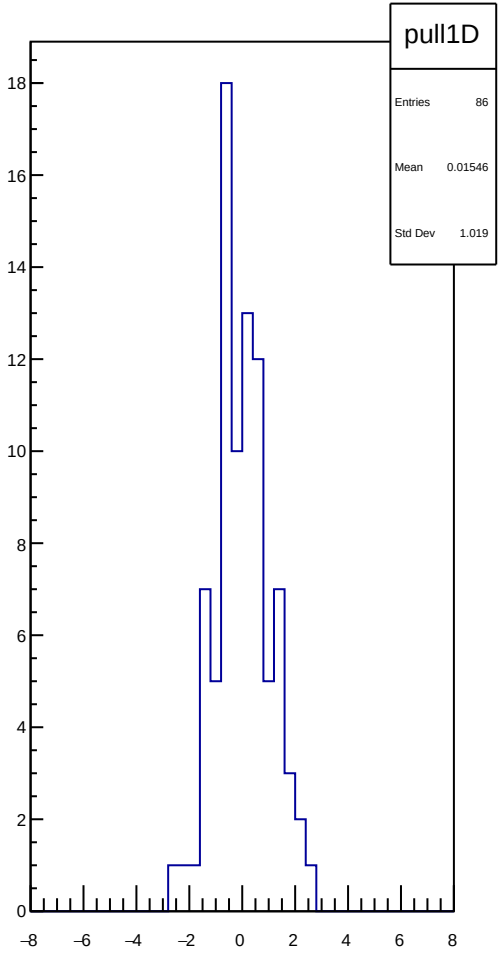

reg_asym_atl1_rms vs run
χ² / ndf 89.96 / 85
p0 2395 ± 1.847
2460
2440
2420
2400
2380
2360
2340

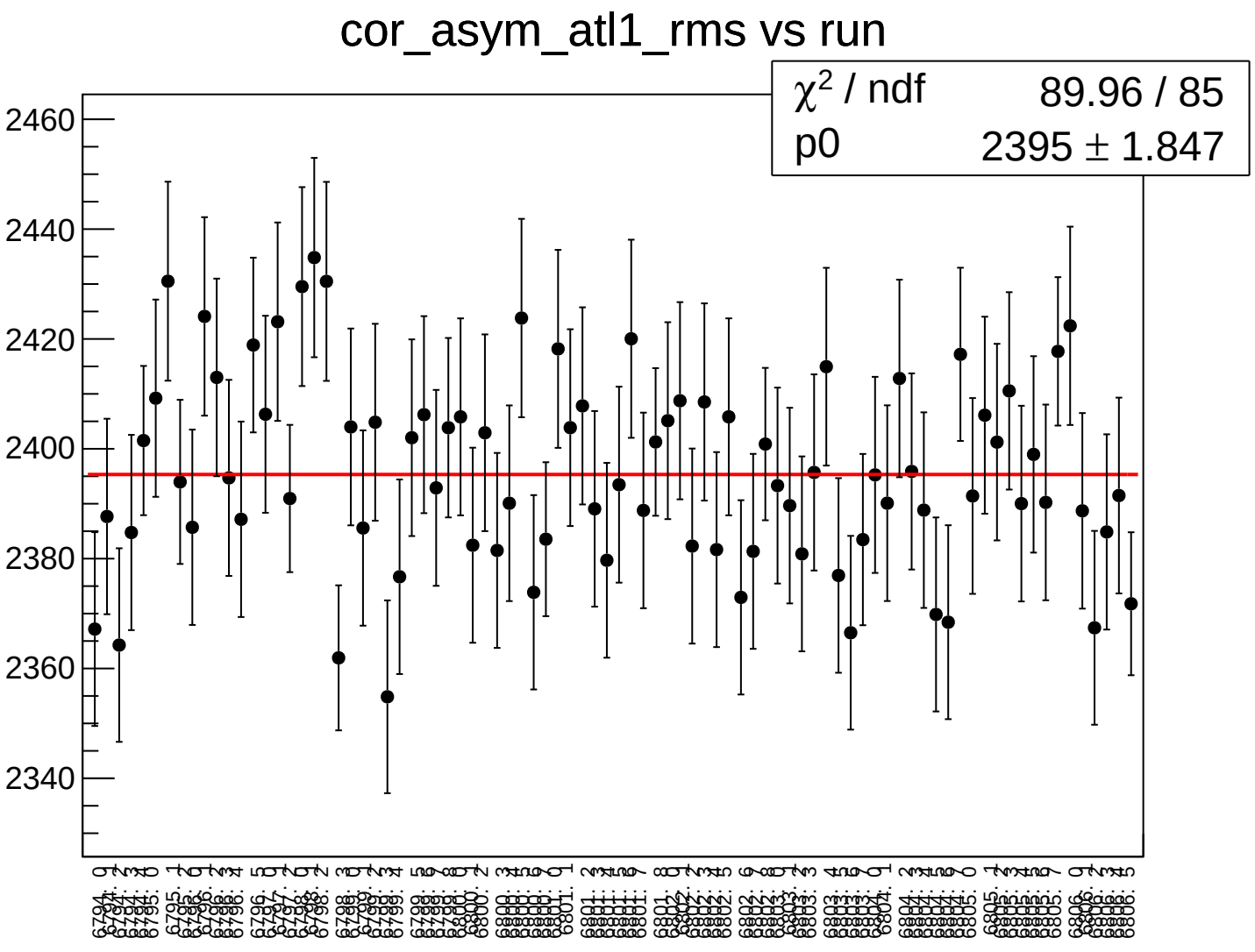

asym_atl1_reg_correction_mean vs run
χ² / ndf 81.44 / 85
p0 −263.8 ± 661
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −81.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

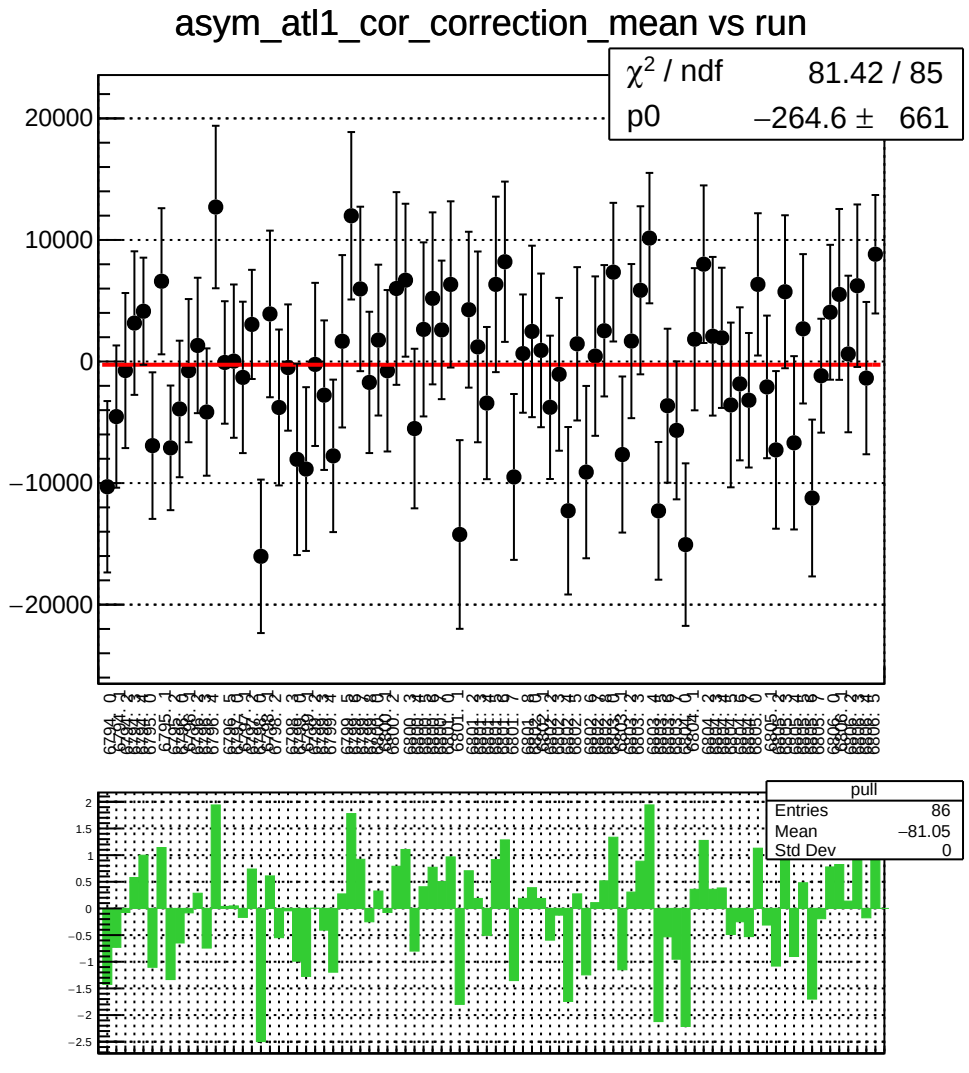

pull1D
Entries 86
Mean −0.01591
Std Dev 0.973
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

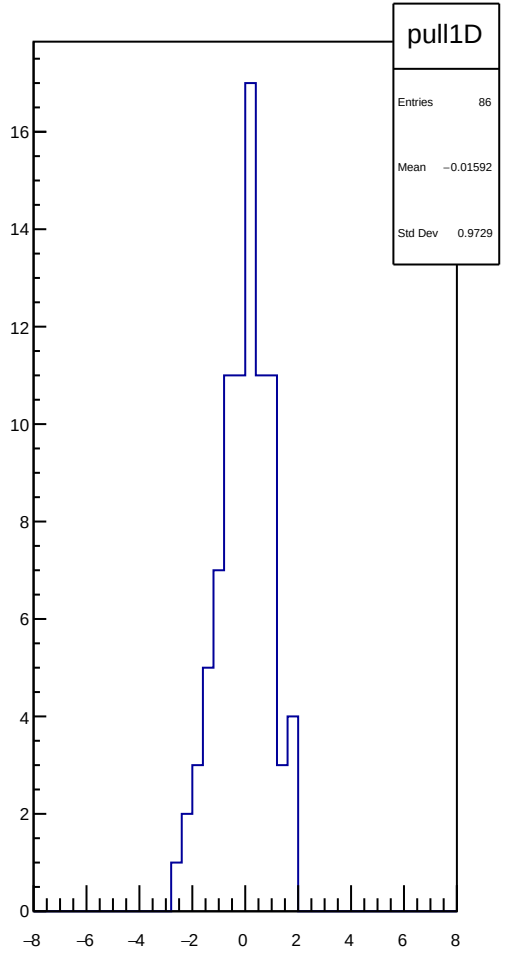

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.141e+04 / 85
p0 604.2 ± 0.4674
750
700
650
600
550
500

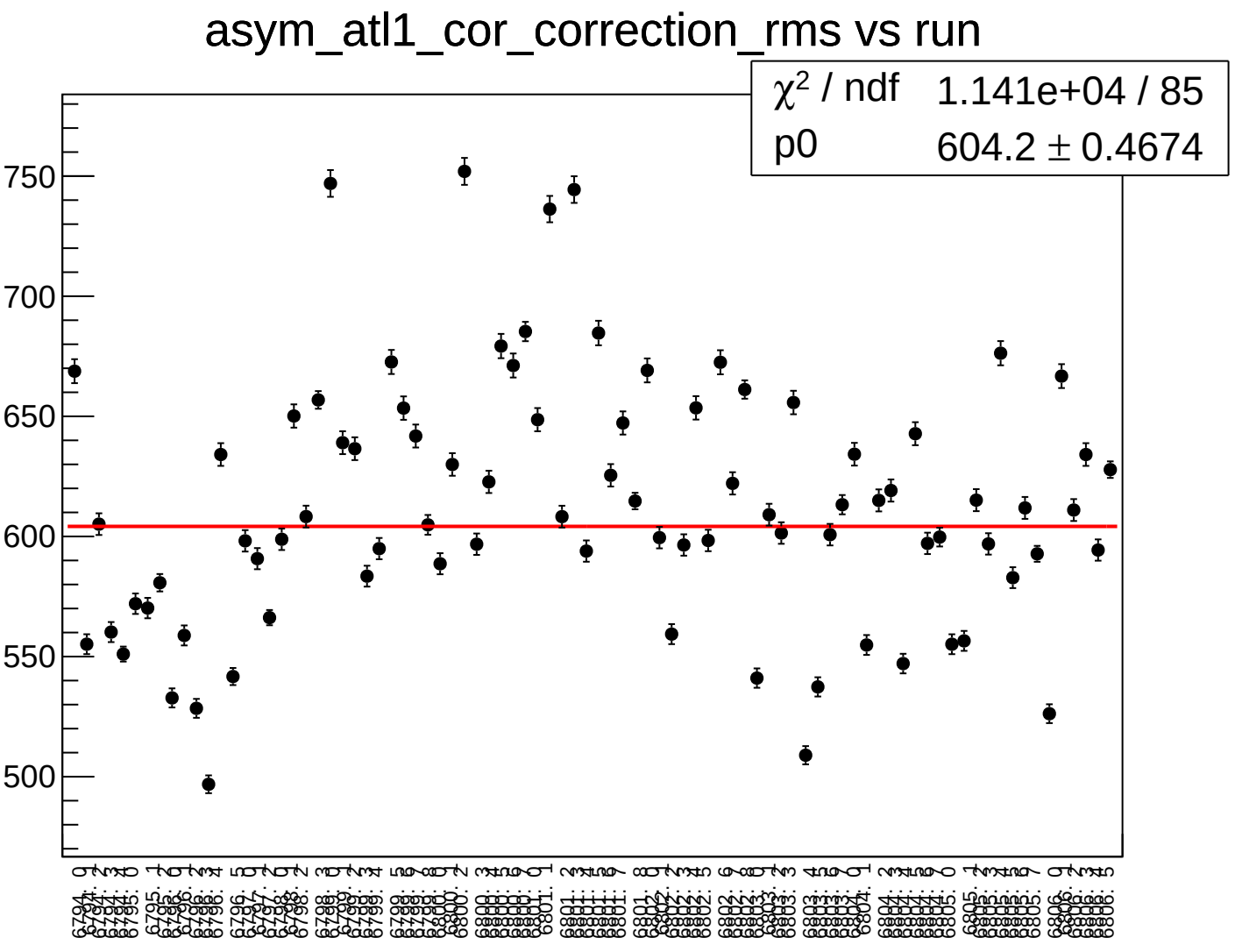

cor_asym_atl1_mean vs run
×10^3
χ² / ndf 89.32 / 85
p0 −327.8 ± 2612
100
50
0
−50
−100
pull
Entries 86
Mean −138.4
Std Dev 0
2
1
0
−1
−2

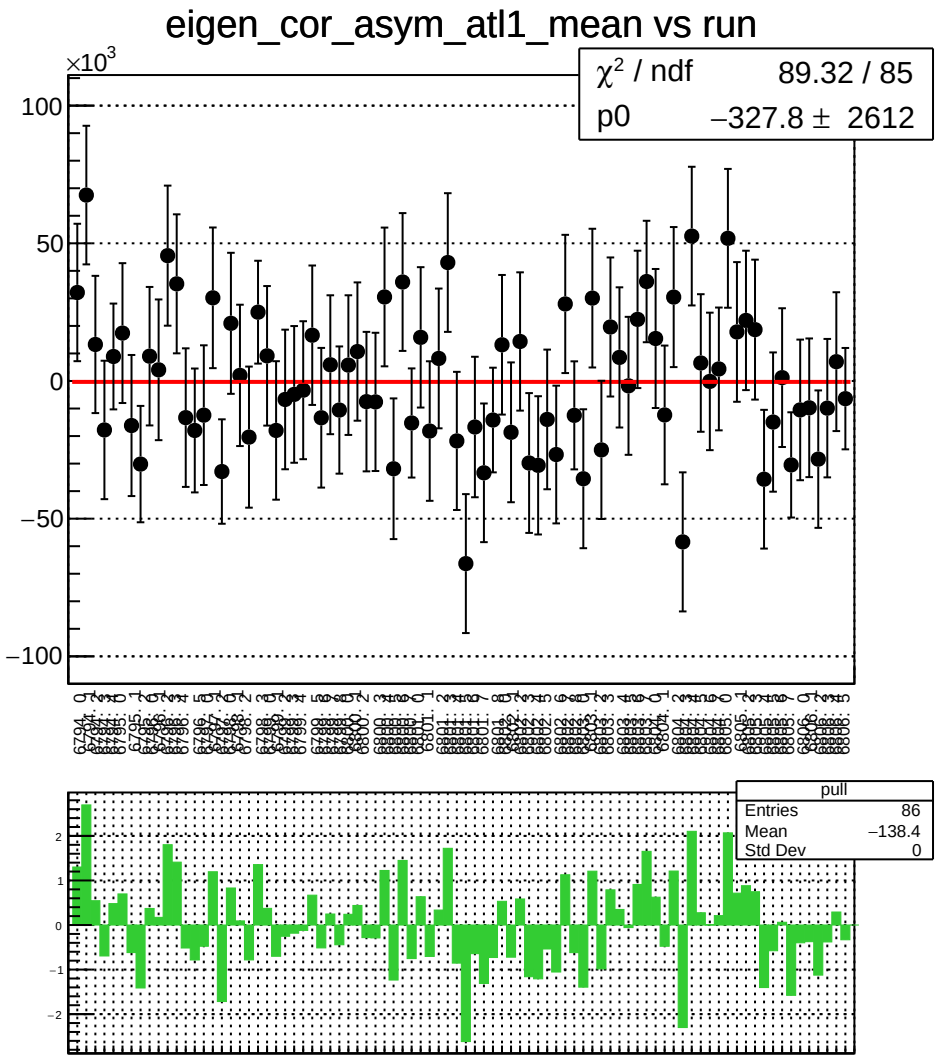

pull1D
Entries 86
Mean 0.01546
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

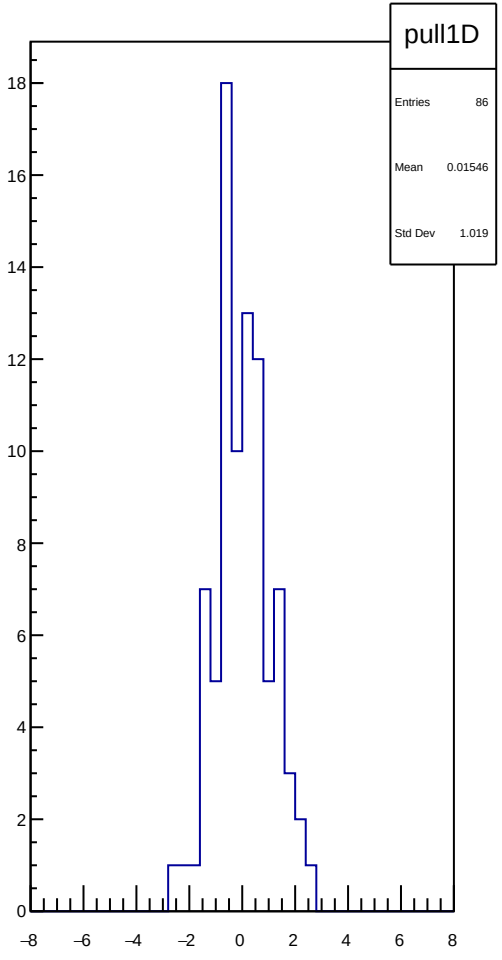

cor_asym_atl1_rms vs run
χ^2 / ndf 89.96 / 85
p0 2395 ± 1.847
2460
2440
2420
2400
2380
2360
2340

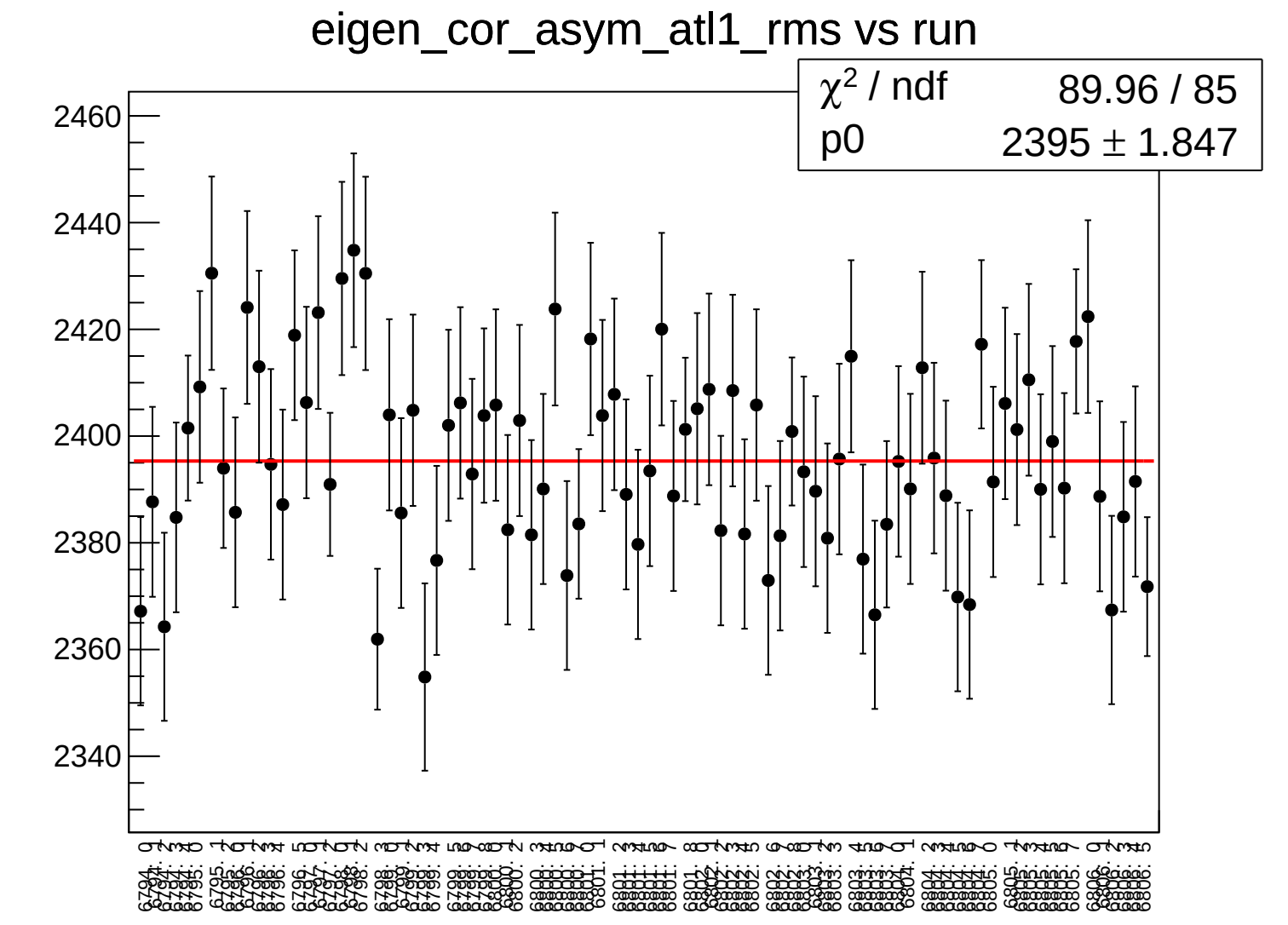

asym_atl1_cor_correction_mean vs run
χ² / ndf 81.42 / 85
p0 −264.6 ± 661
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −81.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

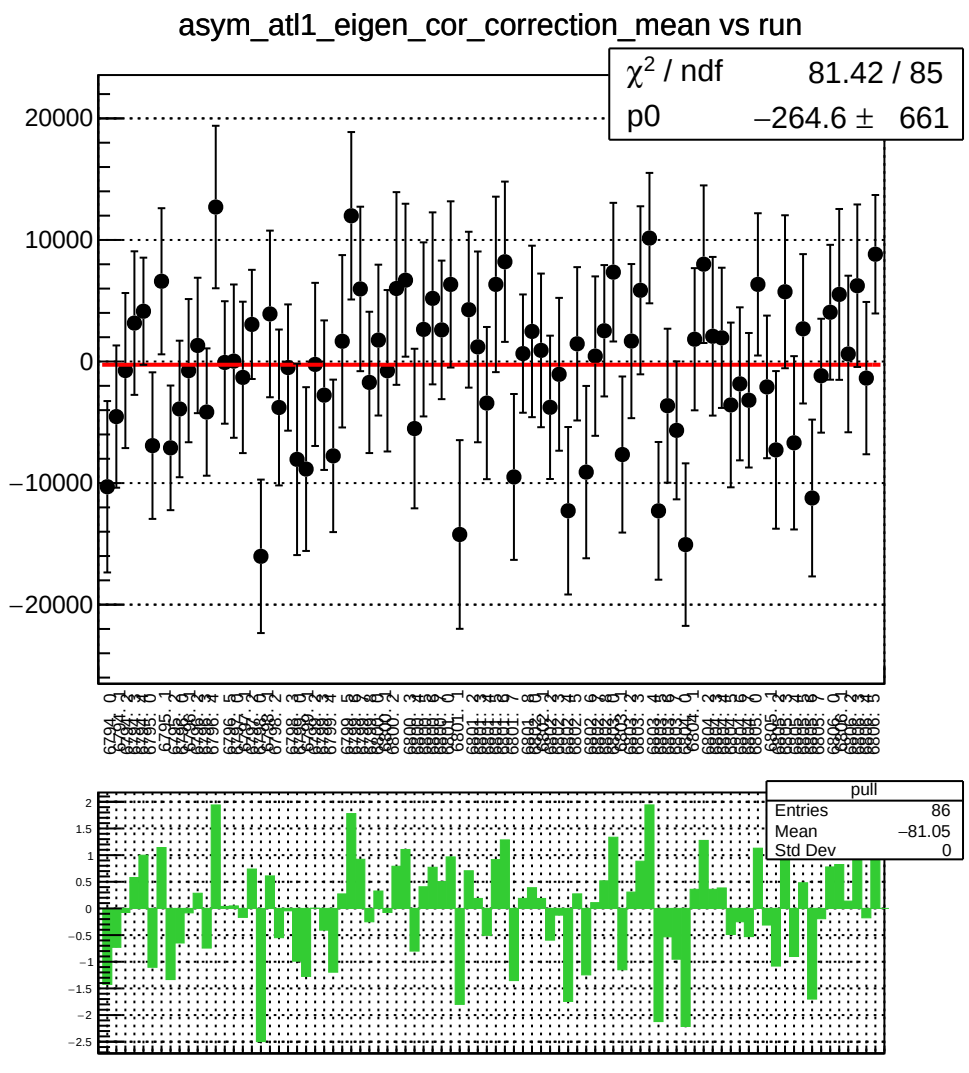

pull1D
Entries 86
Mean −0.01592
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

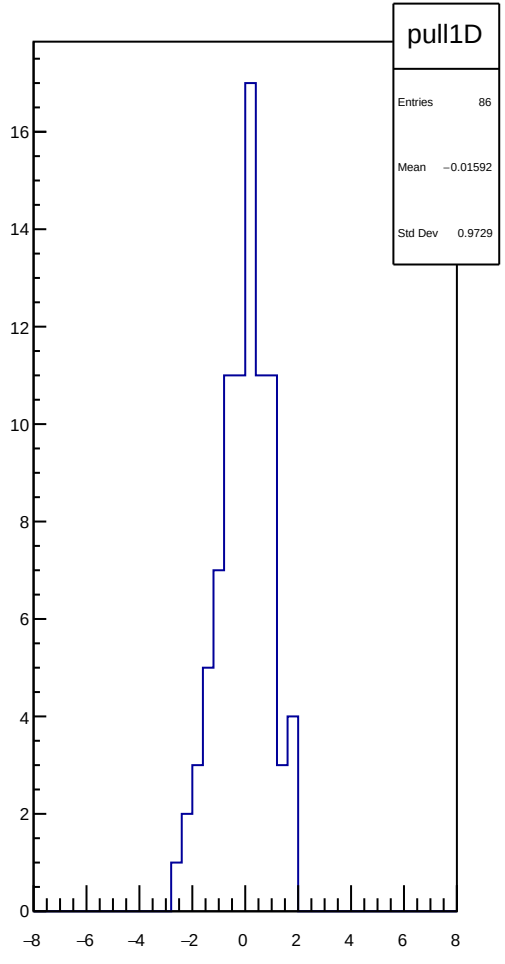

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.141e+04 / 85
p0 604.2 ± 0.4674
750
700
650
600
550
500

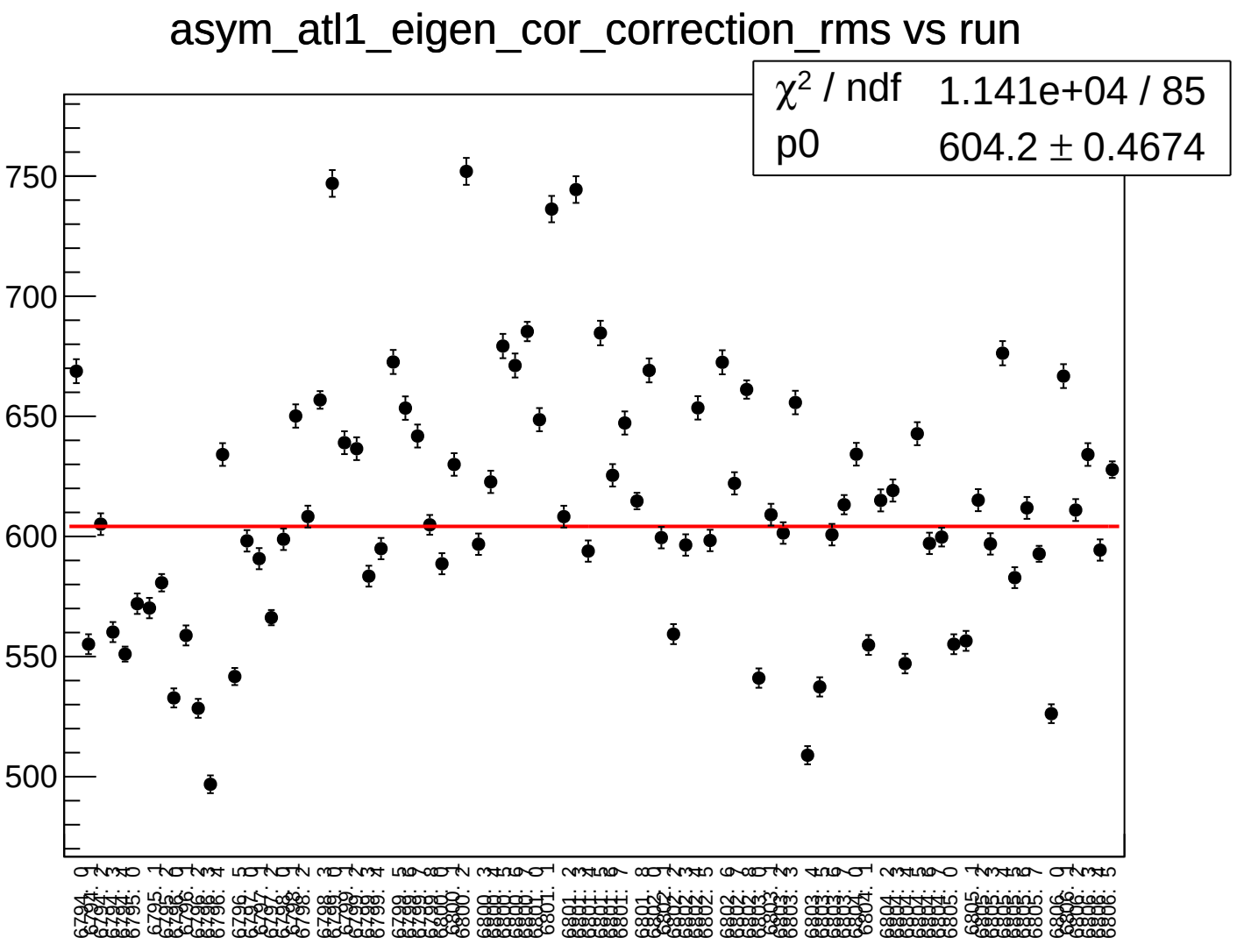

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 89.32 / 85
p0 −327.8 ± 2612
100
50
0
−50
−100
pull
Entries 86
Mean −138.4
Std Dev 0
2
1
0
−1
−2

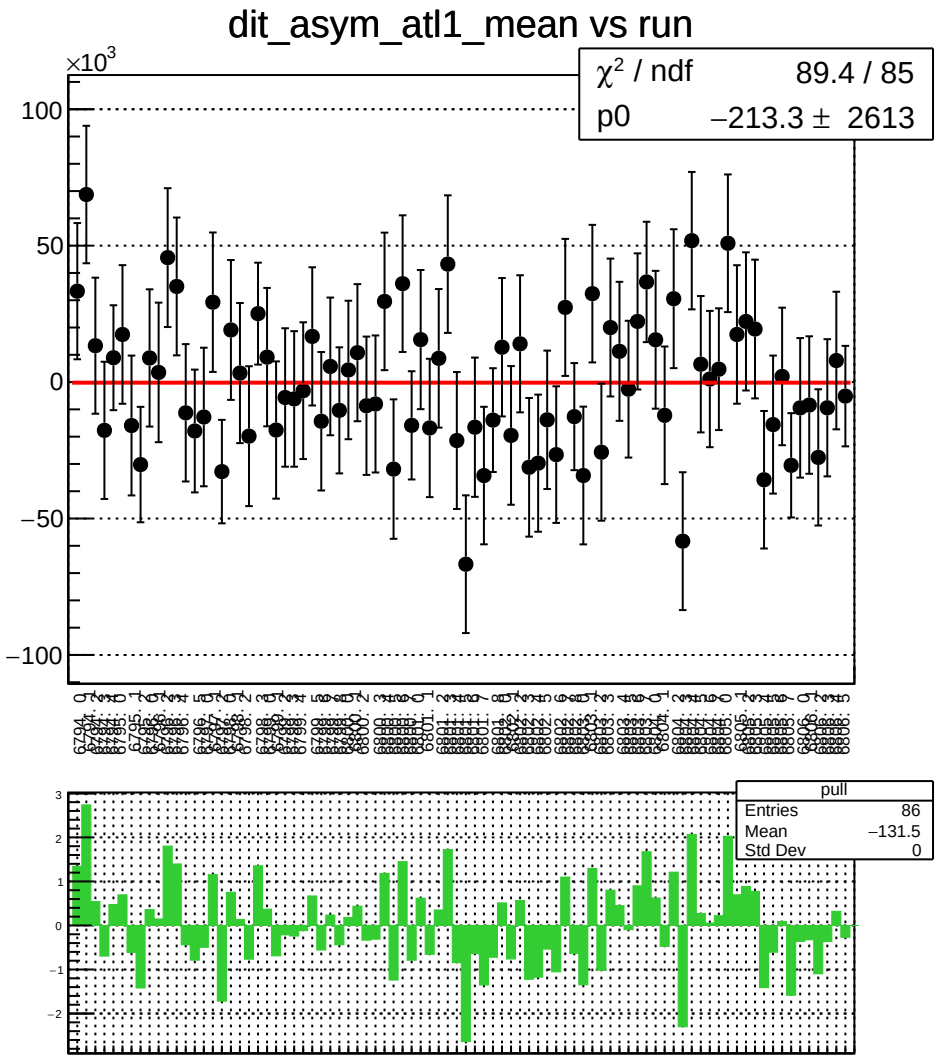

pull1D
Entries 86
Mean 0.01546
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

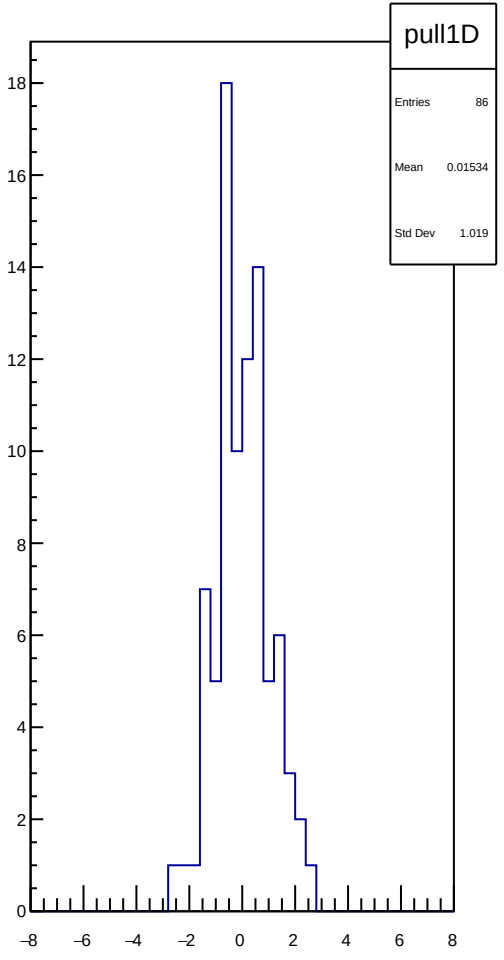

eigen_cor_asym_atl1_rms vs run
χ² / ndf 89.96 / 85
p0 2395 ± 1.847
2460
2440
2420
2400
2380
2360
2340

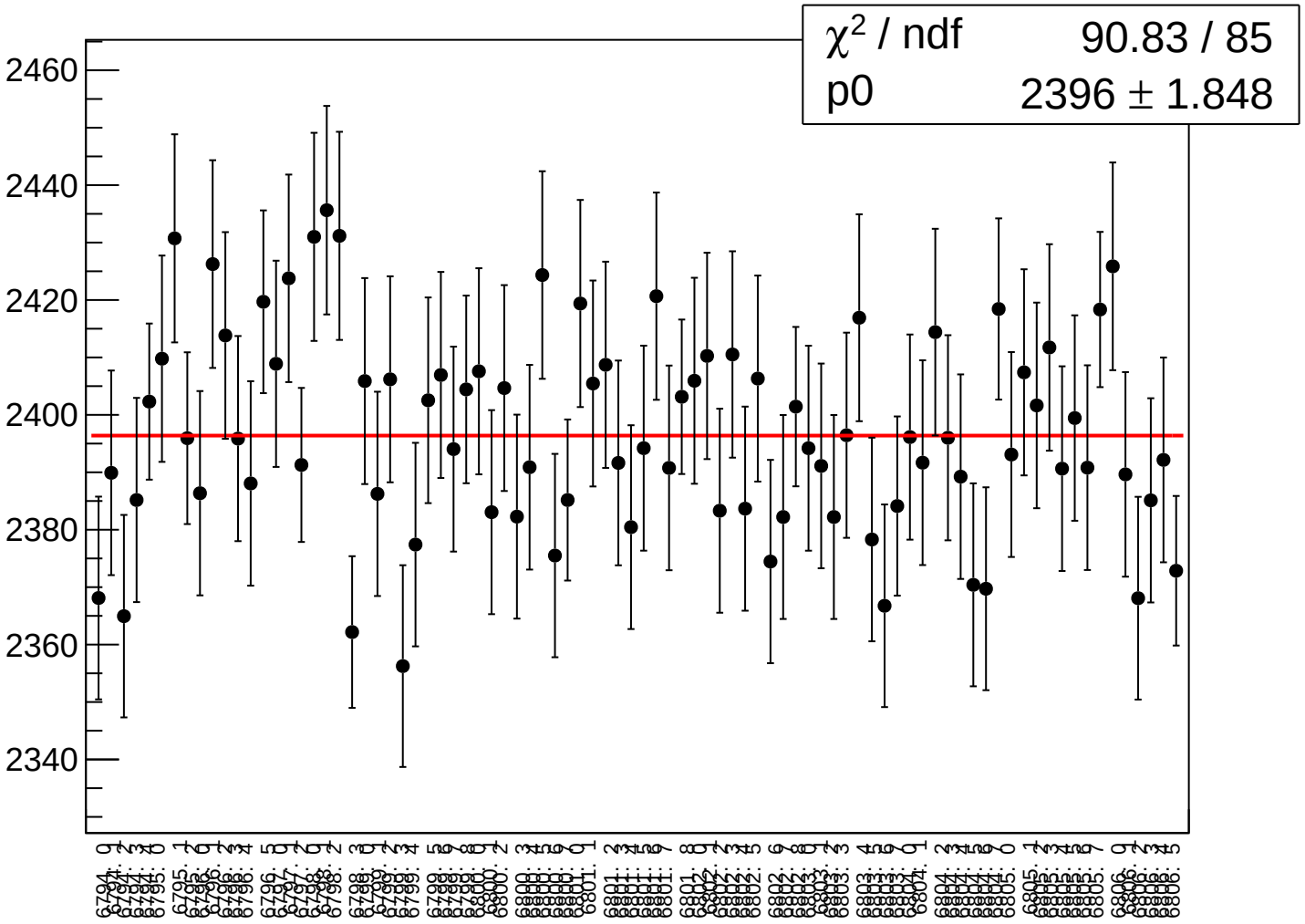

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 81.42 / 85
p0 −264.6 ± 661
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −81.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

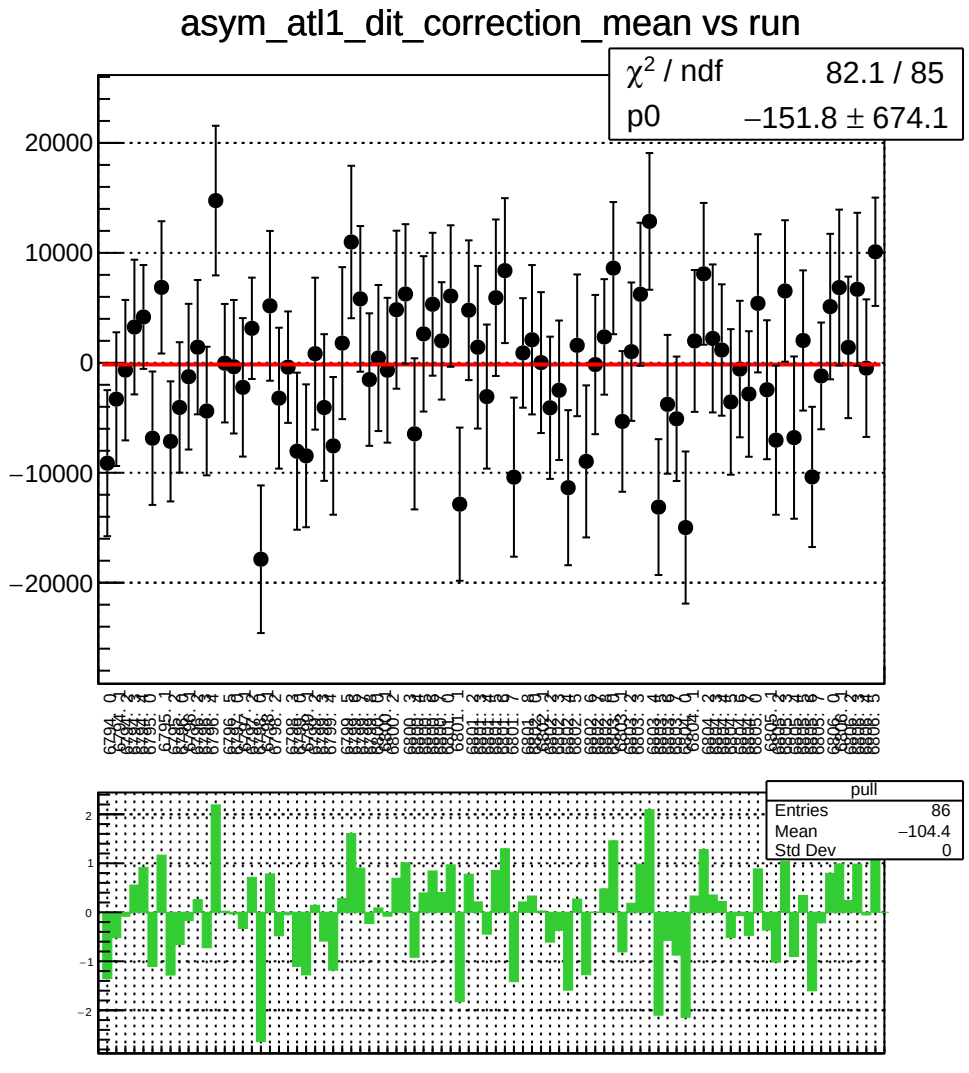

pull1D
Entries 86
Mean −0.01592
Std Dev 0.9729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

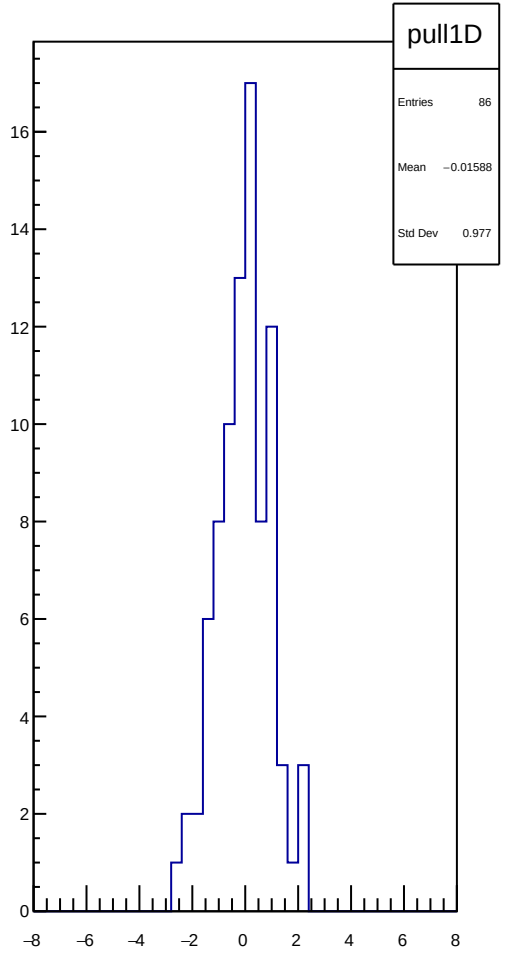

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.141e+04 / 85
p0 604.2 ± 0.4674
750
700
650
600
550
500

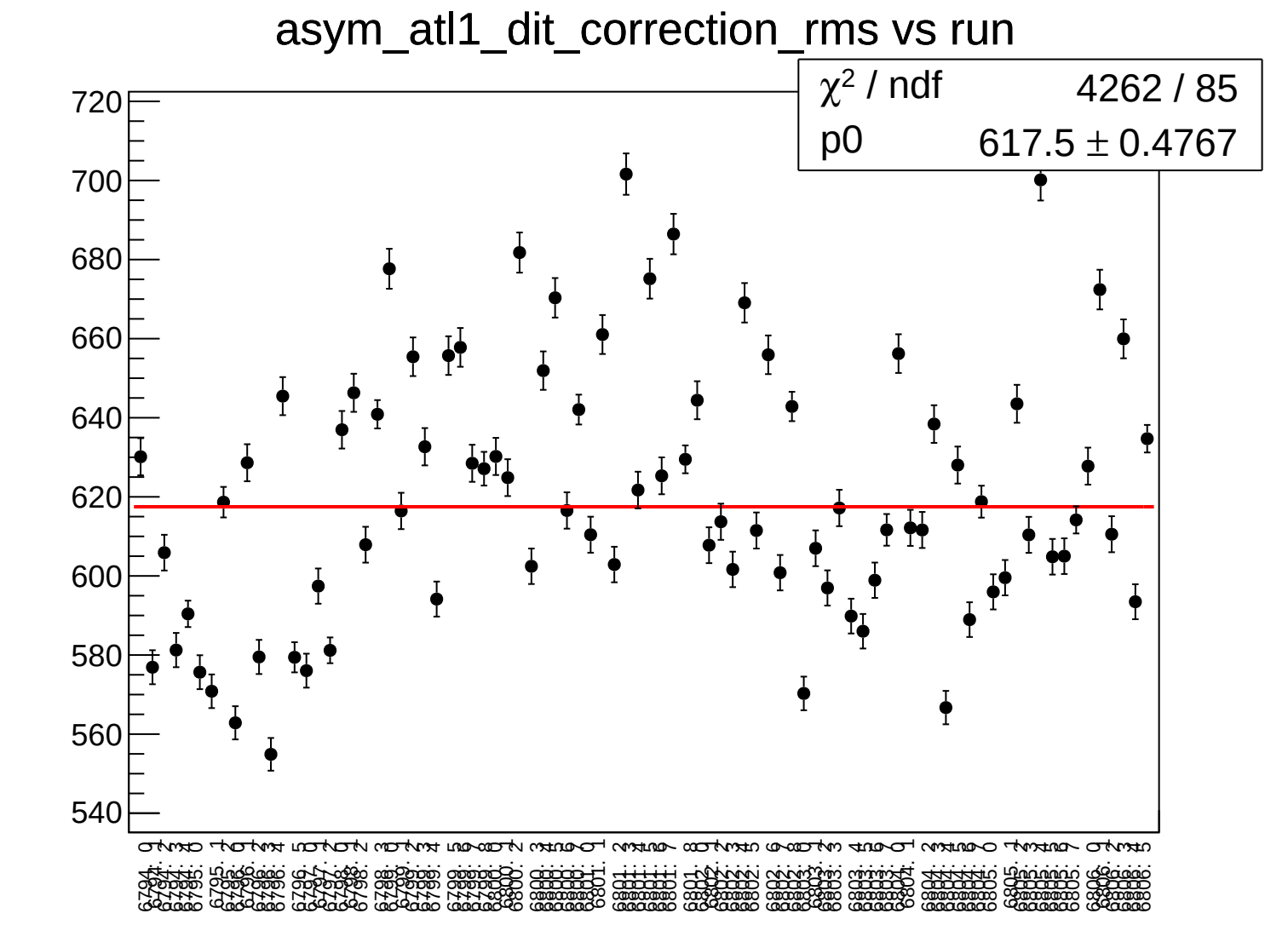

dit_asym_atl1_mean vs run
×10^3
χ² / ndf 89.4 / 85
p0 −213.3 ± 2613
100
50
0
−50
−100
pull
Entries 86
Mean −131.5
Std Dev 0
3
2
1
0
−1
−2

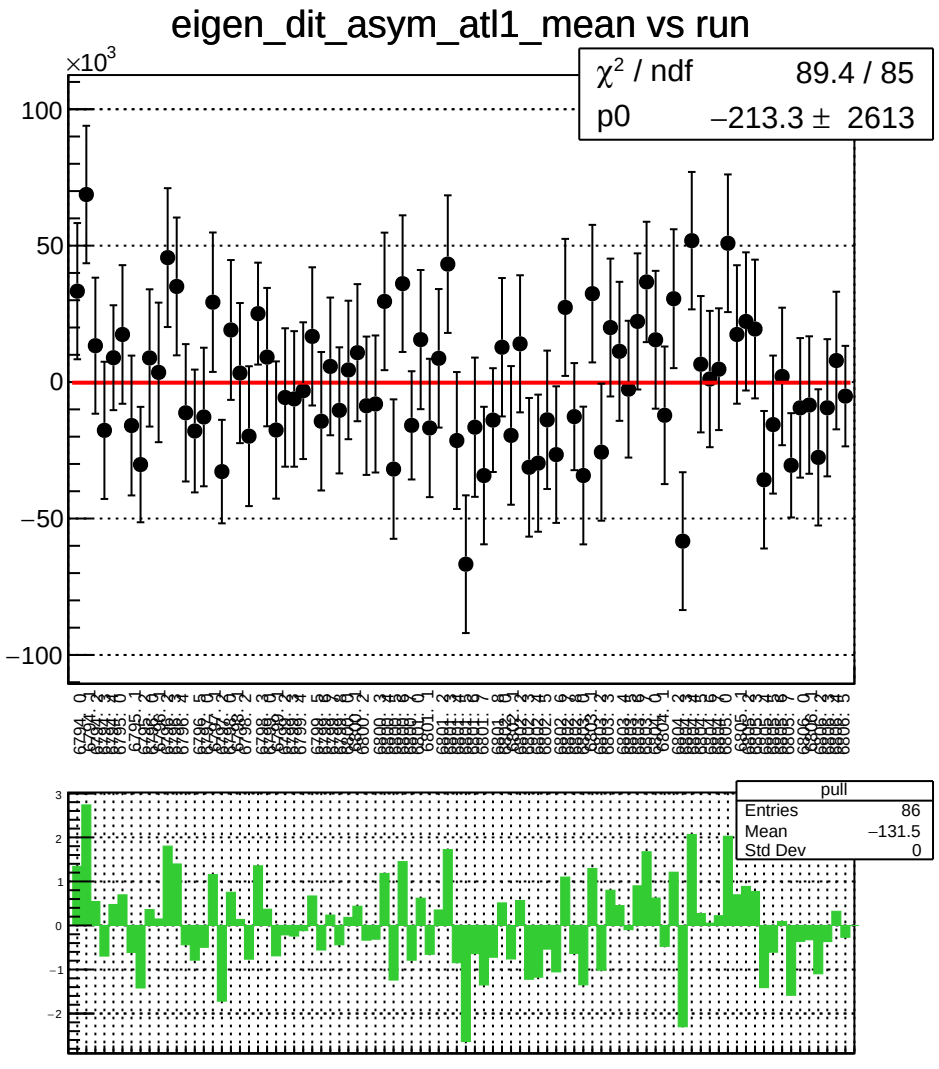

pull1D
Entries 86
Mean 0.01534
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

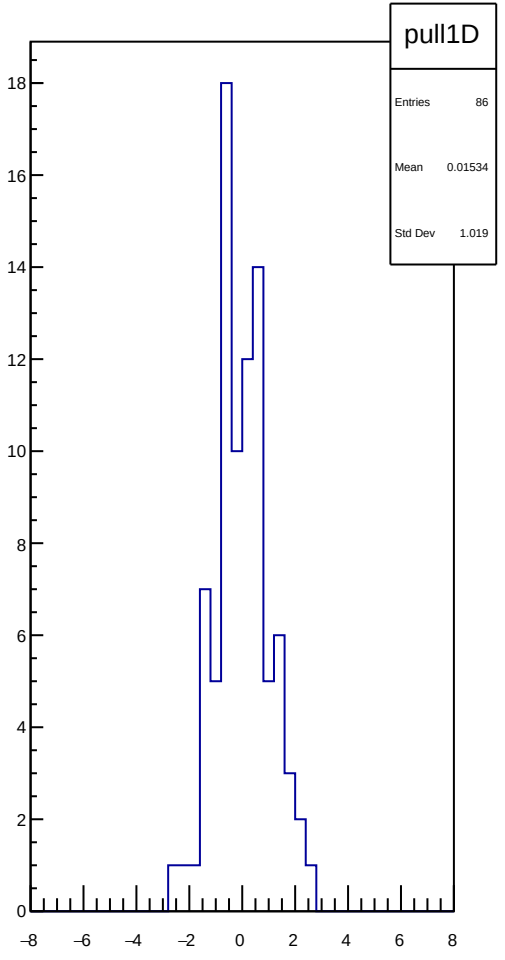

dit_asym_atl1_rms vs run
χ² / ndf 90.83 / 85
p0 2396 ± 1.848
2460
2440
2420
2400
2380
2360
2340

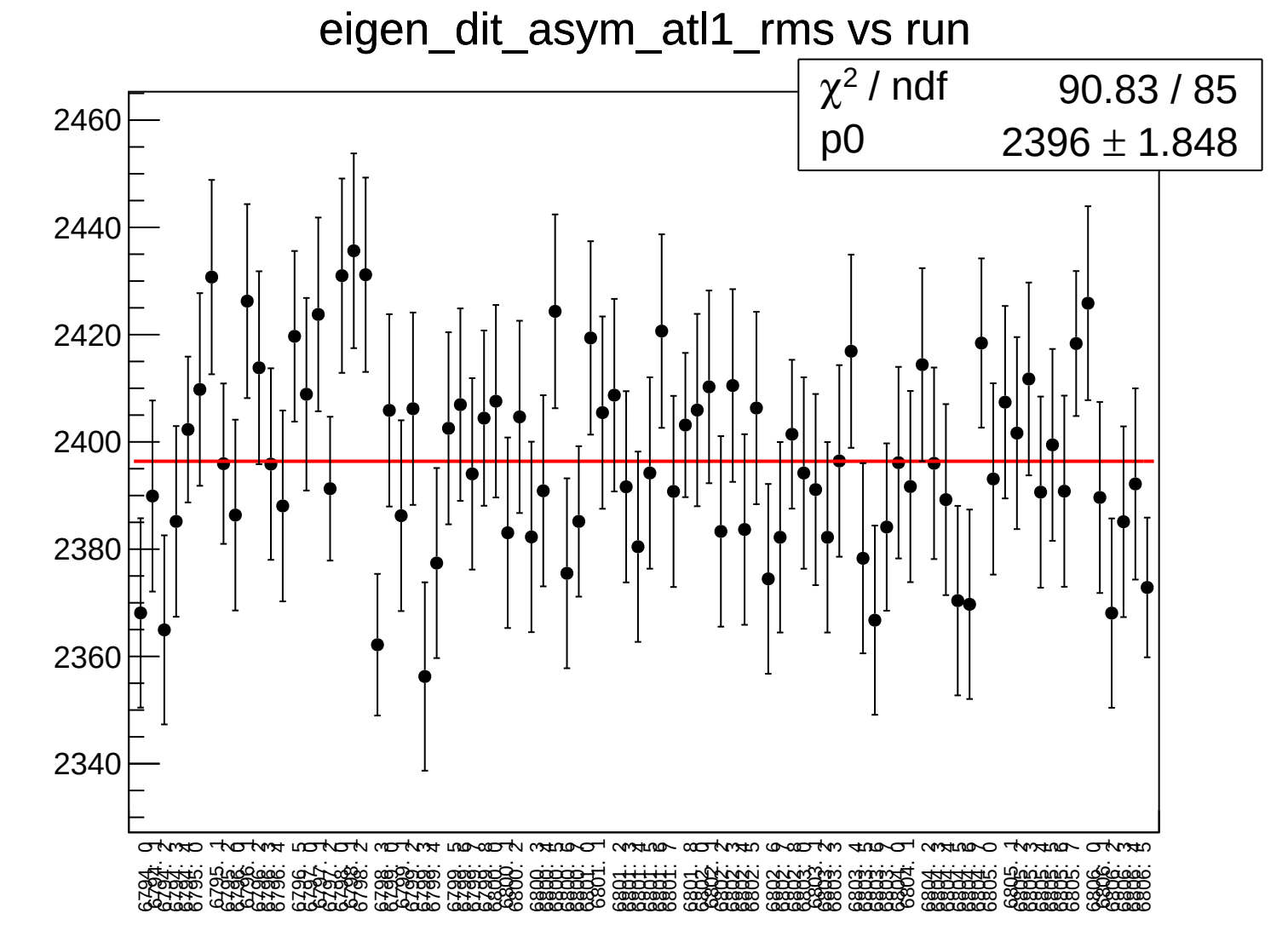

asym_atl1_dit_correction_mean vs run
χ² / ndf 82.1 / 85
p0 −151.8 ± 674.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −104.4
Std Dev 0
2
1
0
−1
−2

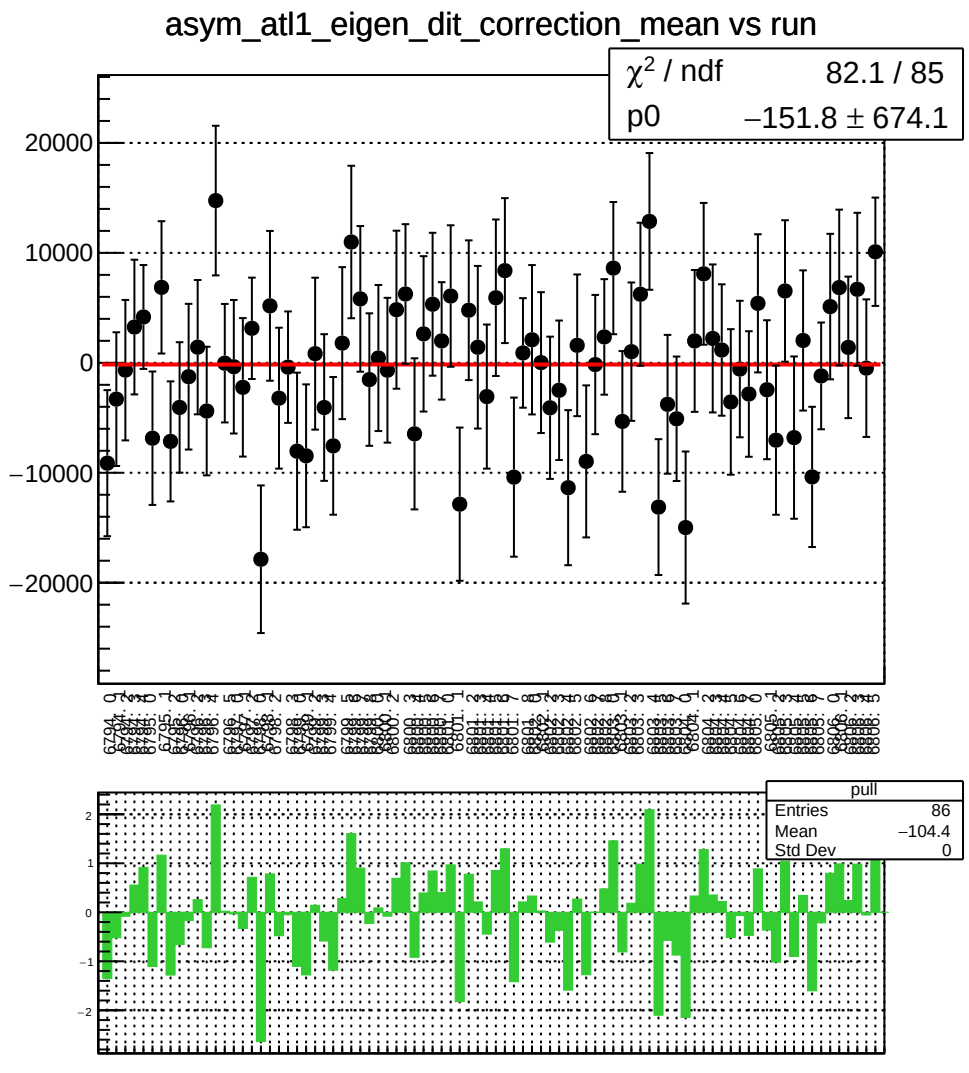

pull1D
Entries 86
Mean −0.01588
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

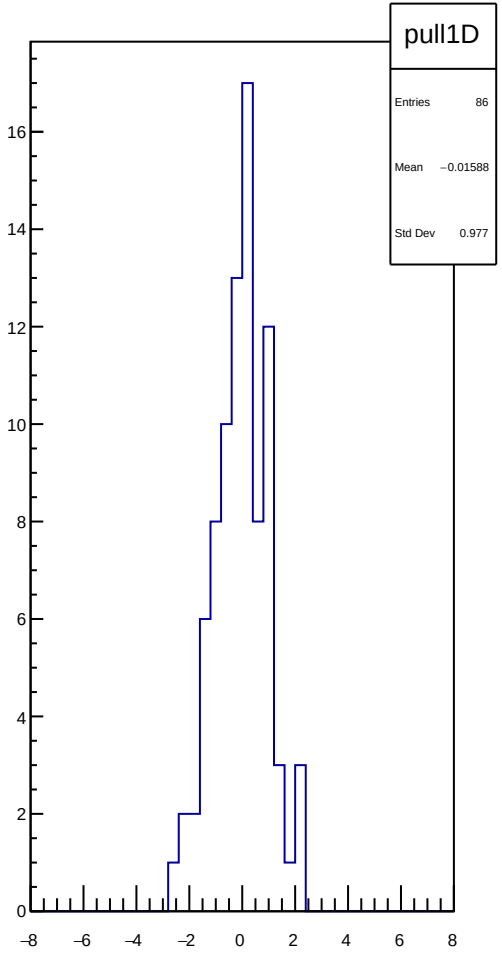

asym_atl1_dit_correction_rms vs run
χ² / ndf 4262 / 85
p0 617.5 ± 0.4767
720
700
680
660
640
620
600
580
560
540

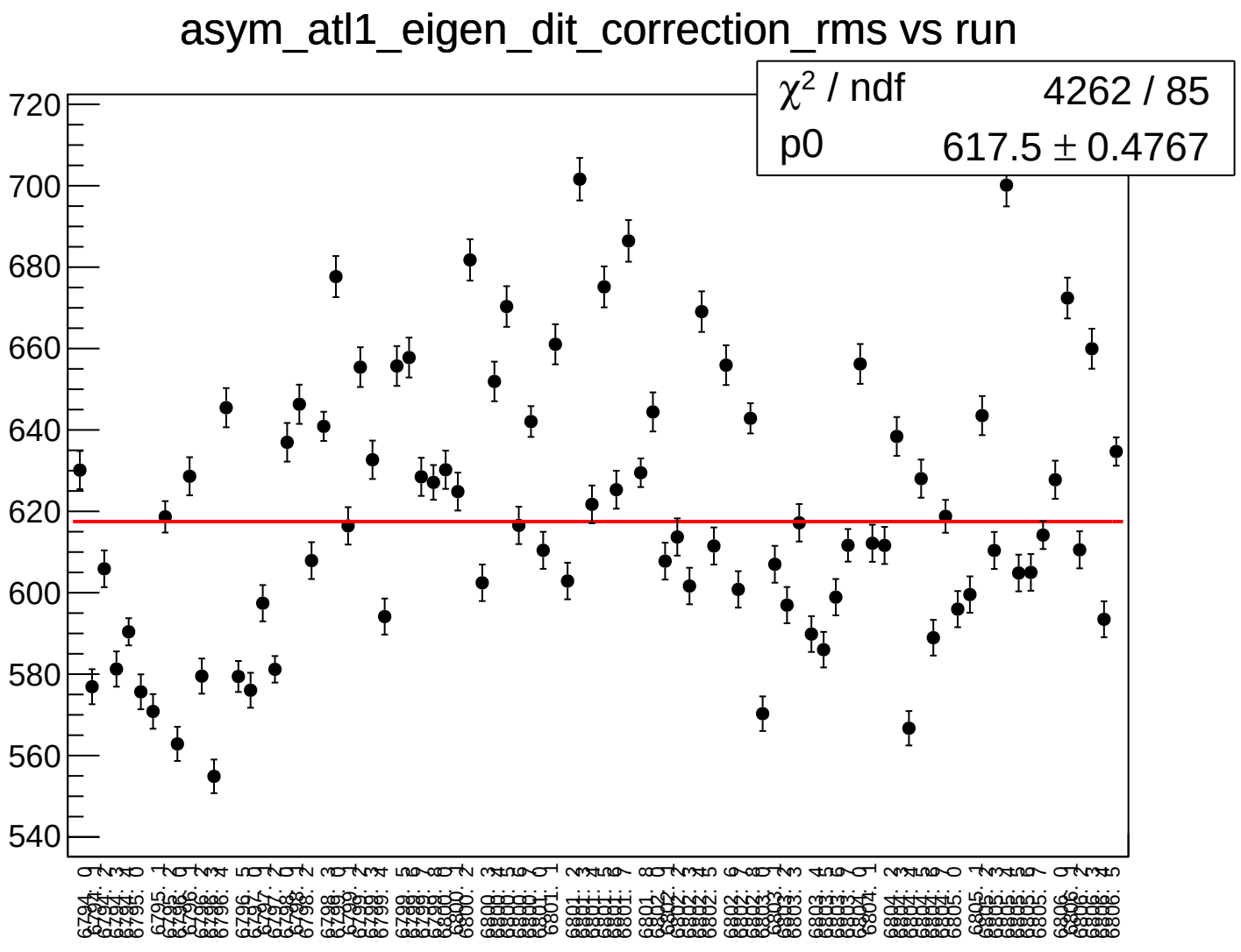

eigen_dit_asym_atl1_mean vs run
×10^3
χ² / ndf 89.4 / 85
p0 −213.3 ± 2613
100
50
0
−50
−100
pull
Entries 86
Mean −131.5
Std Dev 0
3
2
1
0
−1
−2

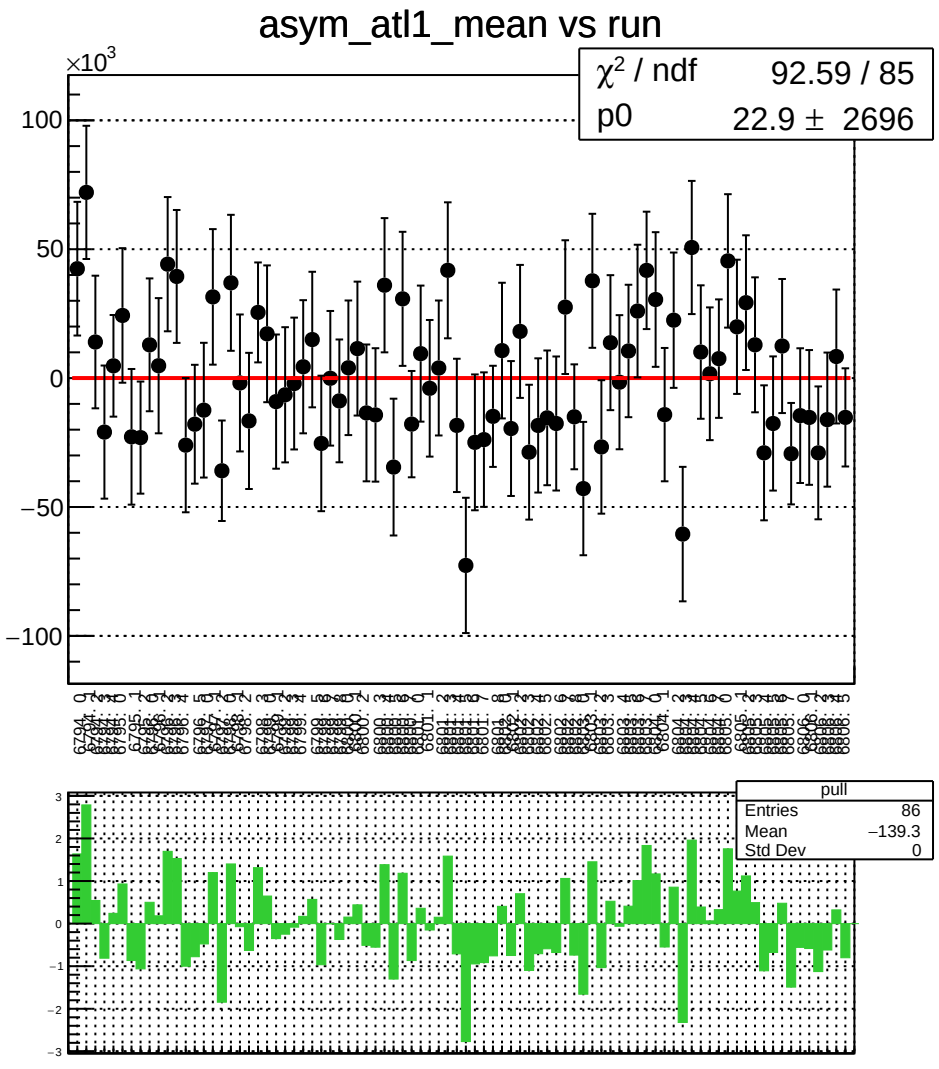

pull1D
Entries 86
Mean 0.01534
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

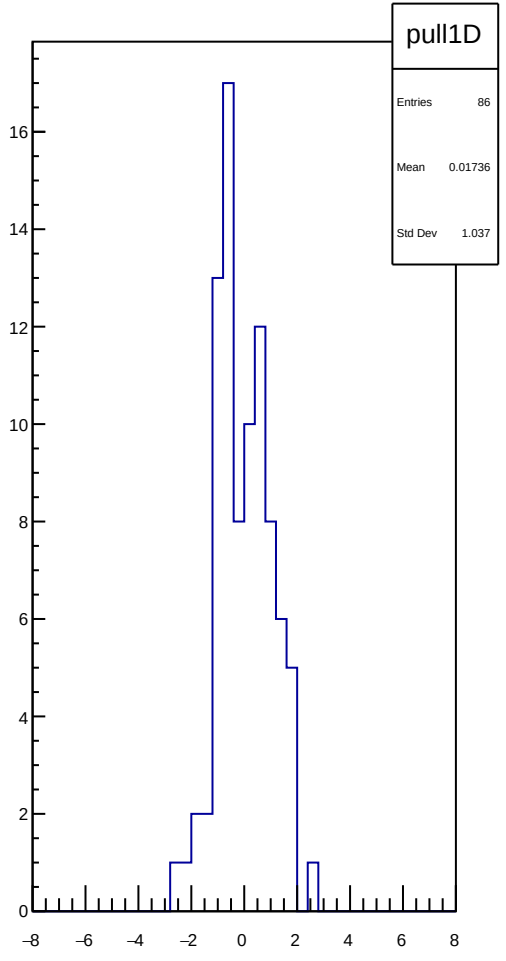

eigen_dit_asym_atl1_rms vs run
χ² / ndf 90.83 / 85
p0 2396 ± 1.848
2460
2440
2420
2400
2380
2360
2340

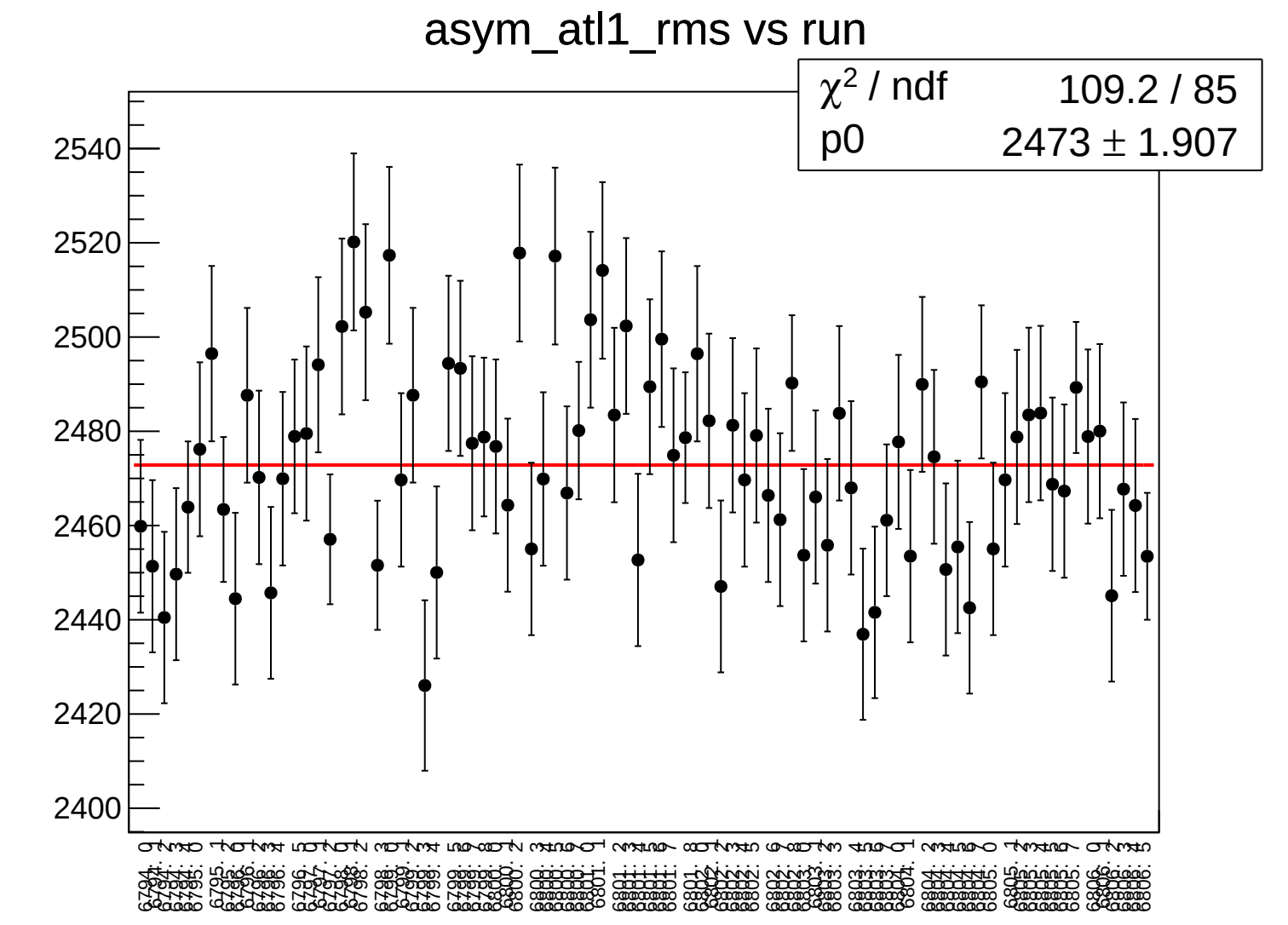

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 82.1 / 85
p0 −151.8 ± 674.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −104.4
Std Dev 0
2
1
0
−1
−2

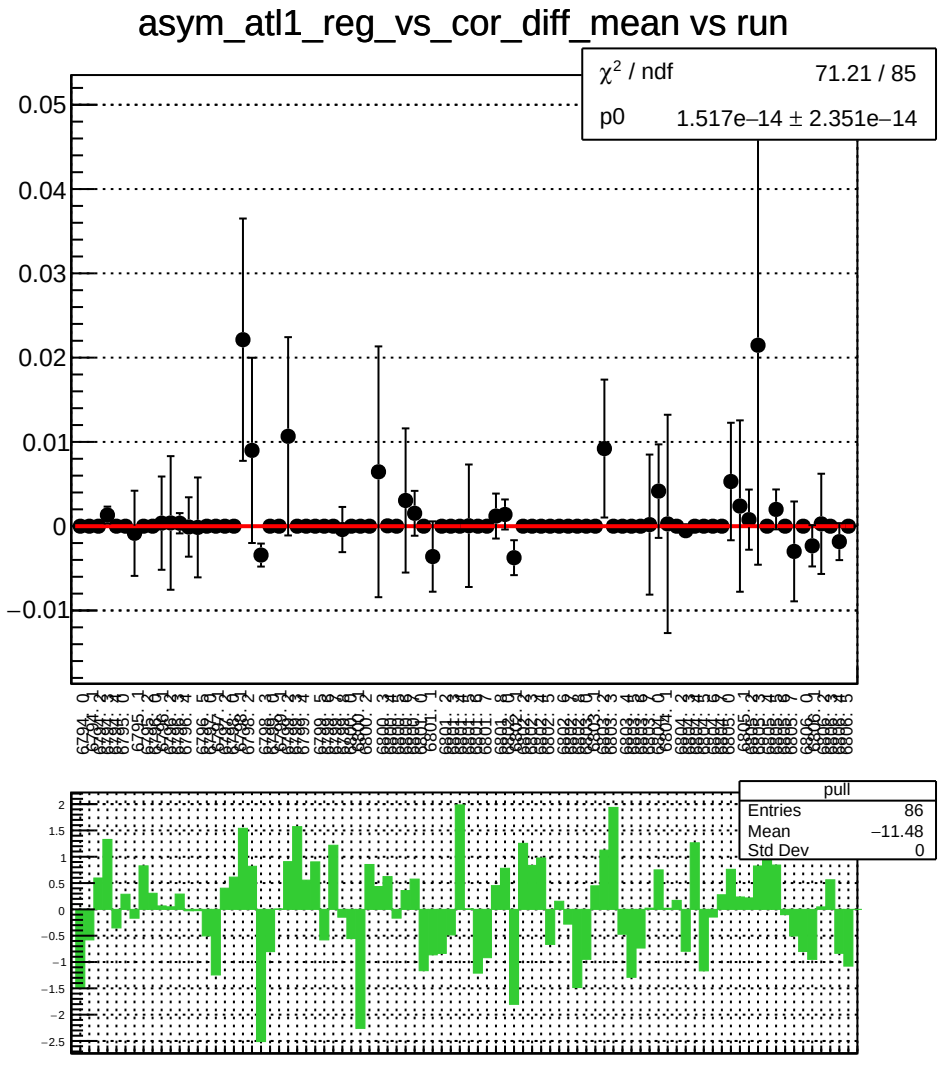

pull1D
Entries 86
Mean −0.01588
Std Dev 0.977
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

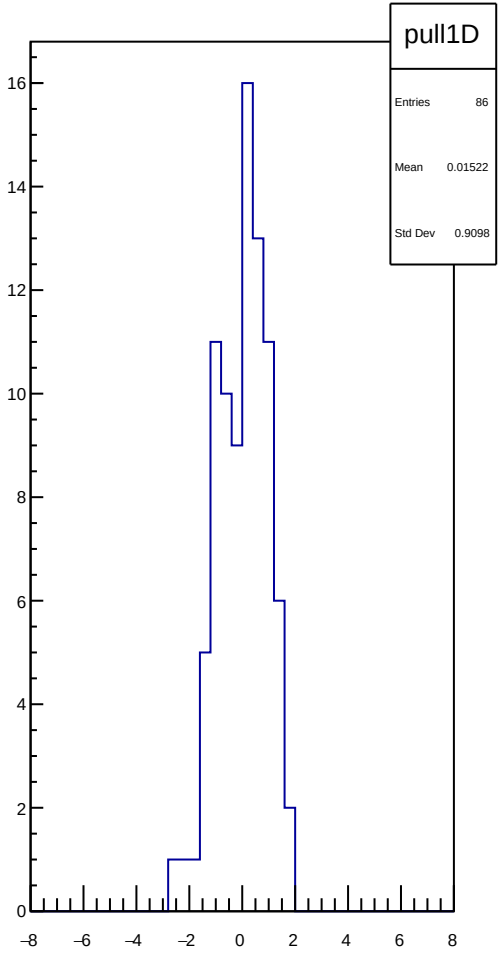

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4262 / 85
p0 617.5 ± 0.4767
720
700
680
660
640
620
600
580
560
540

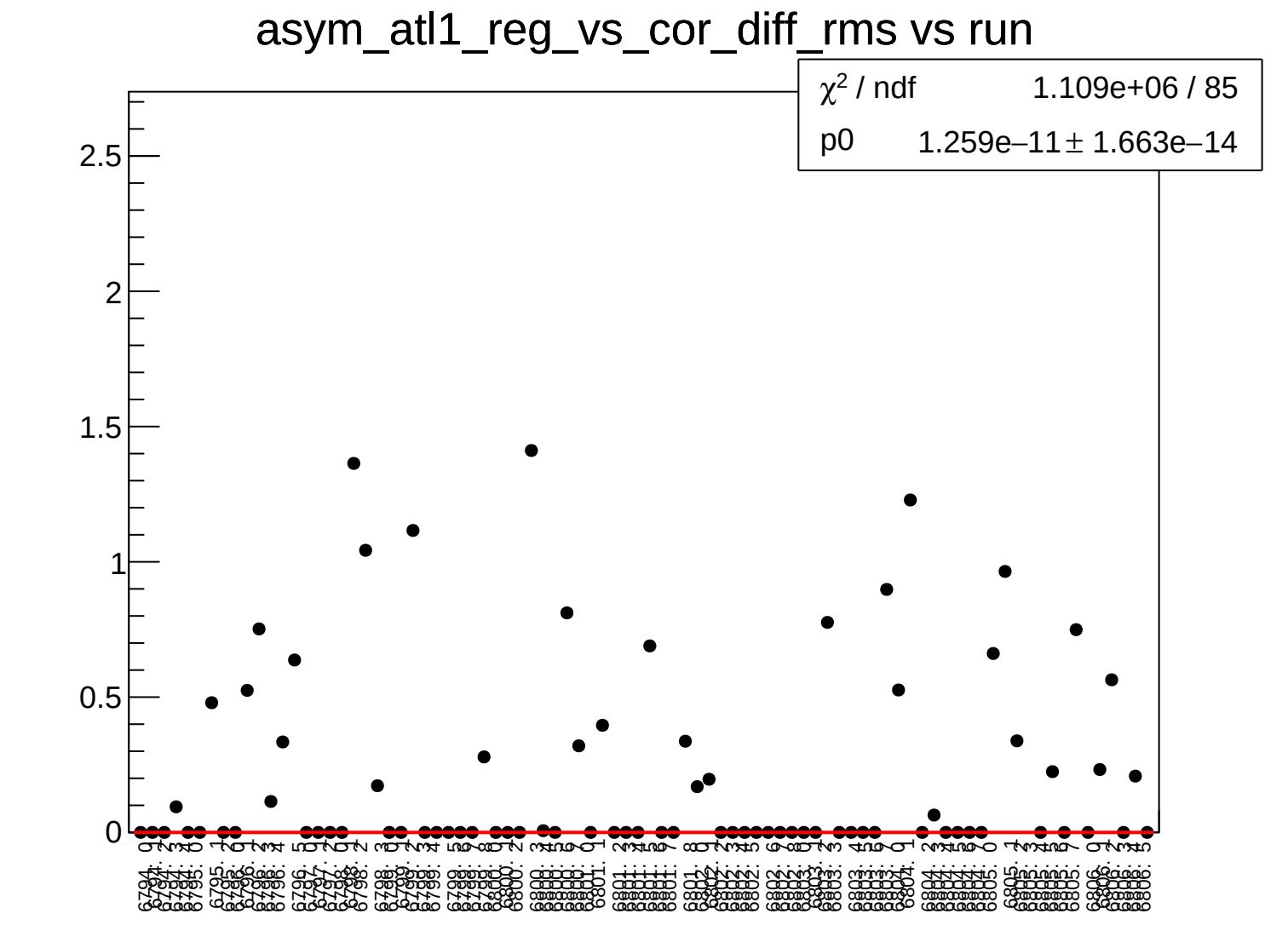

asym_atl1_mean vs run
×10^3
χ² / ndf 92.59 / 85
p0 22.9 ± 2696
100
50
0
−50
−100
pull
Entries 86
Mean −139.3
Std Dev 0
3
2
1
0
−1
−2
−3

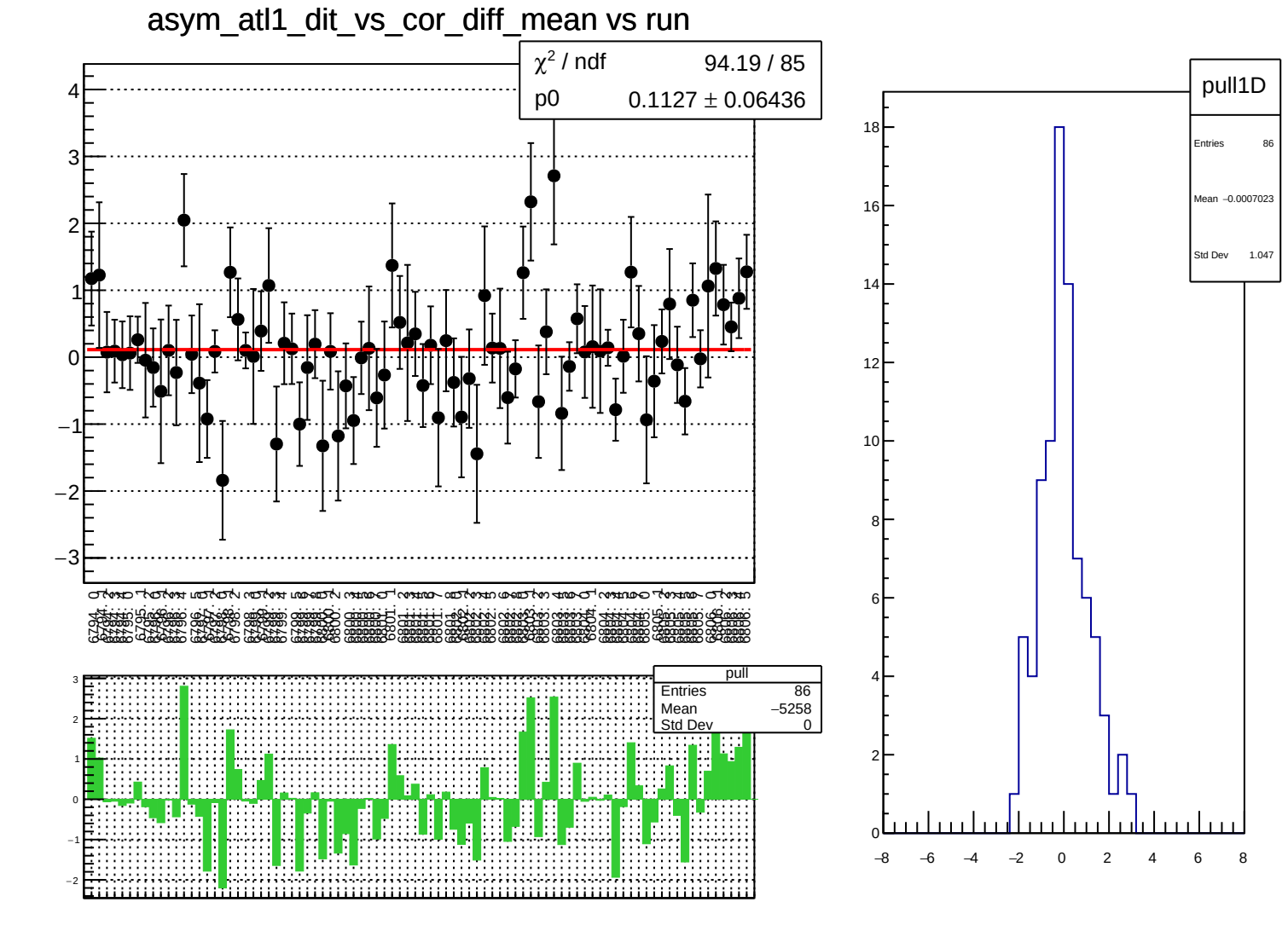

pull1D
Entries 86
Mean 0.01736
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

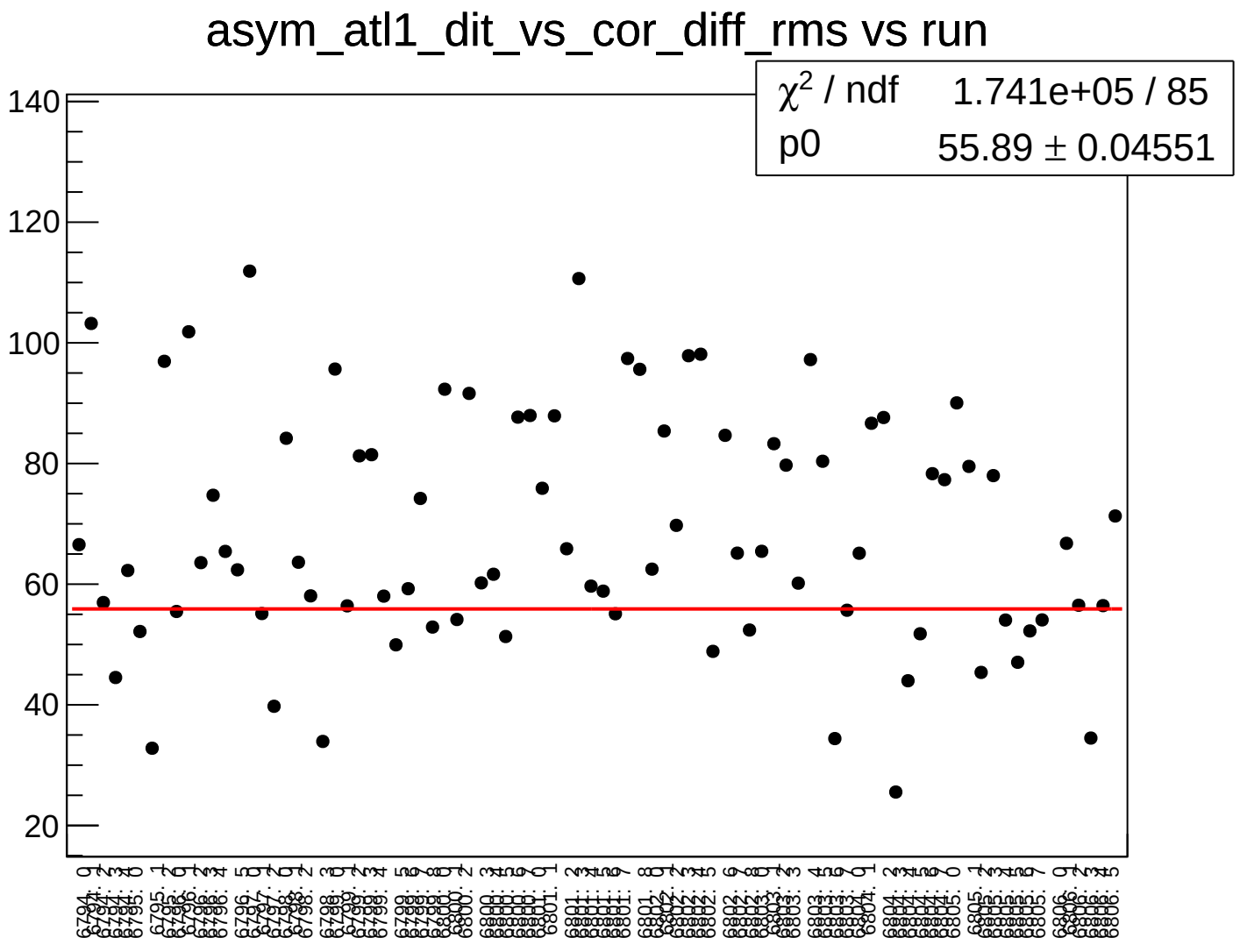

asym_atl1_rms vs run
χ^2 / ndf 109.2 / 85
p0 2473 ± 1.907
2540
2520
2500
2480
2460
2440
2420
2400

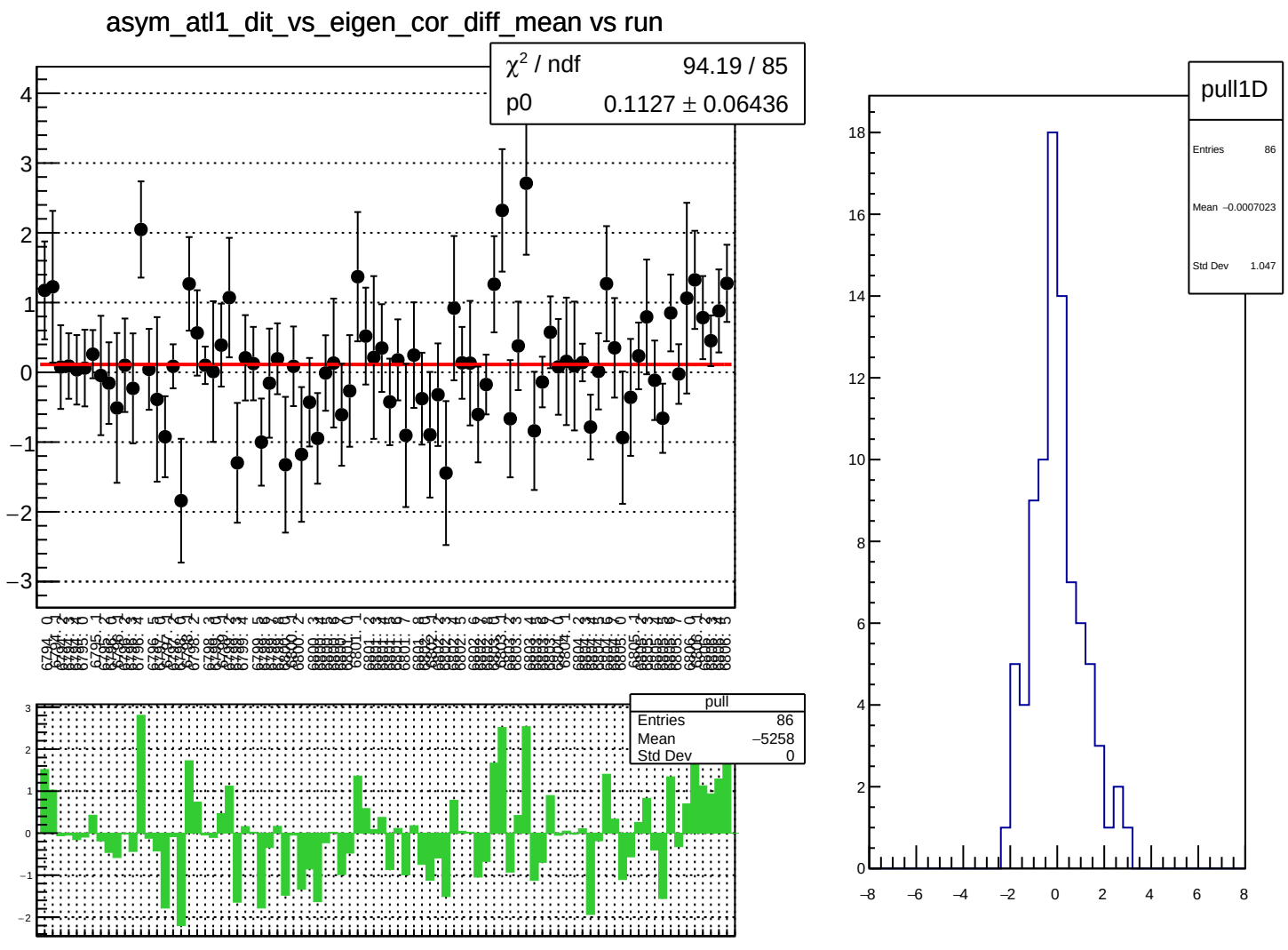

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 71.21 / 85
p0 1.517e−14 ± 2.351e−14
pull
Entries 86
Mean −11.48
Std Dev 0

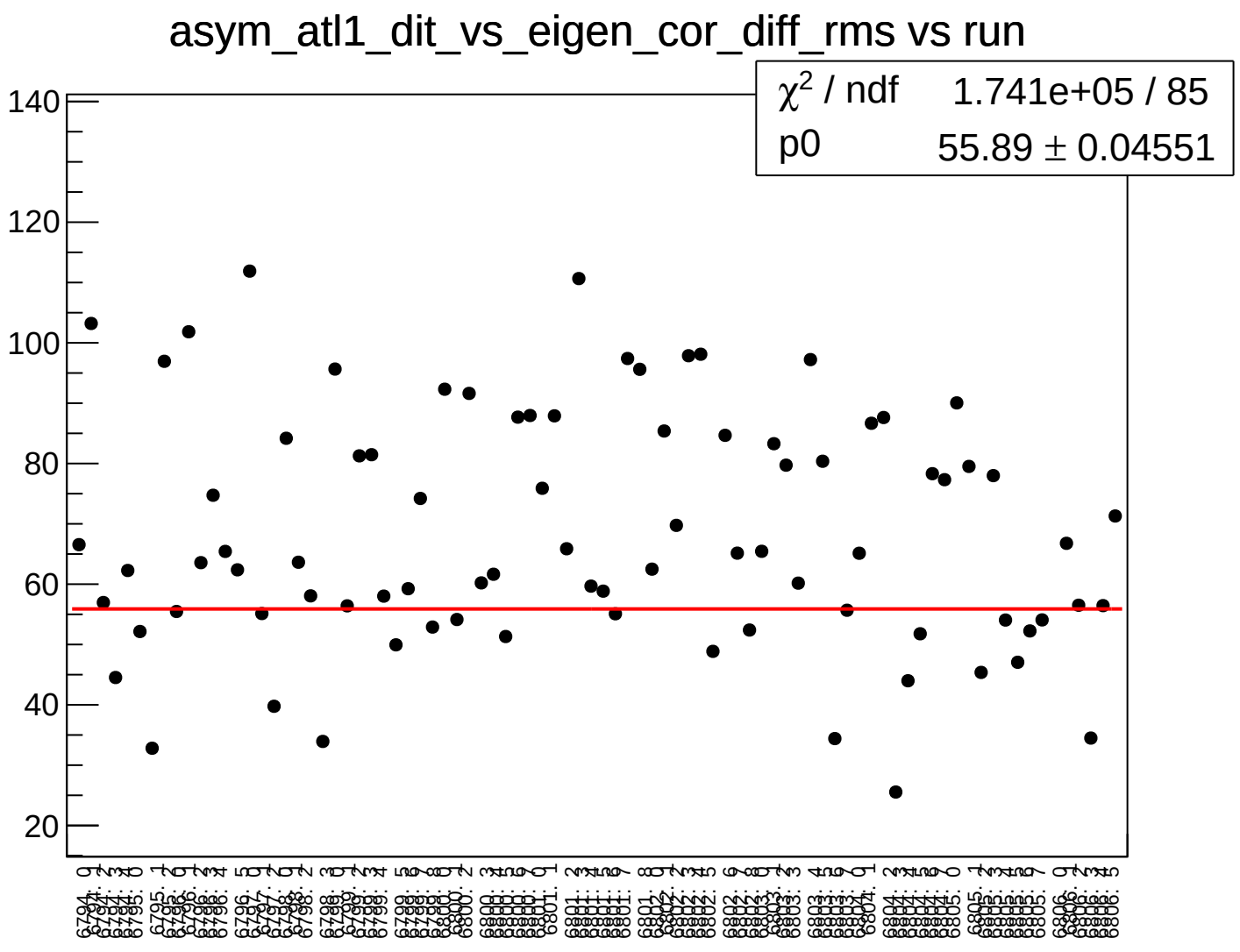

pull1D
Entries 86
Mean 0.01522
Std Dev 0.9098

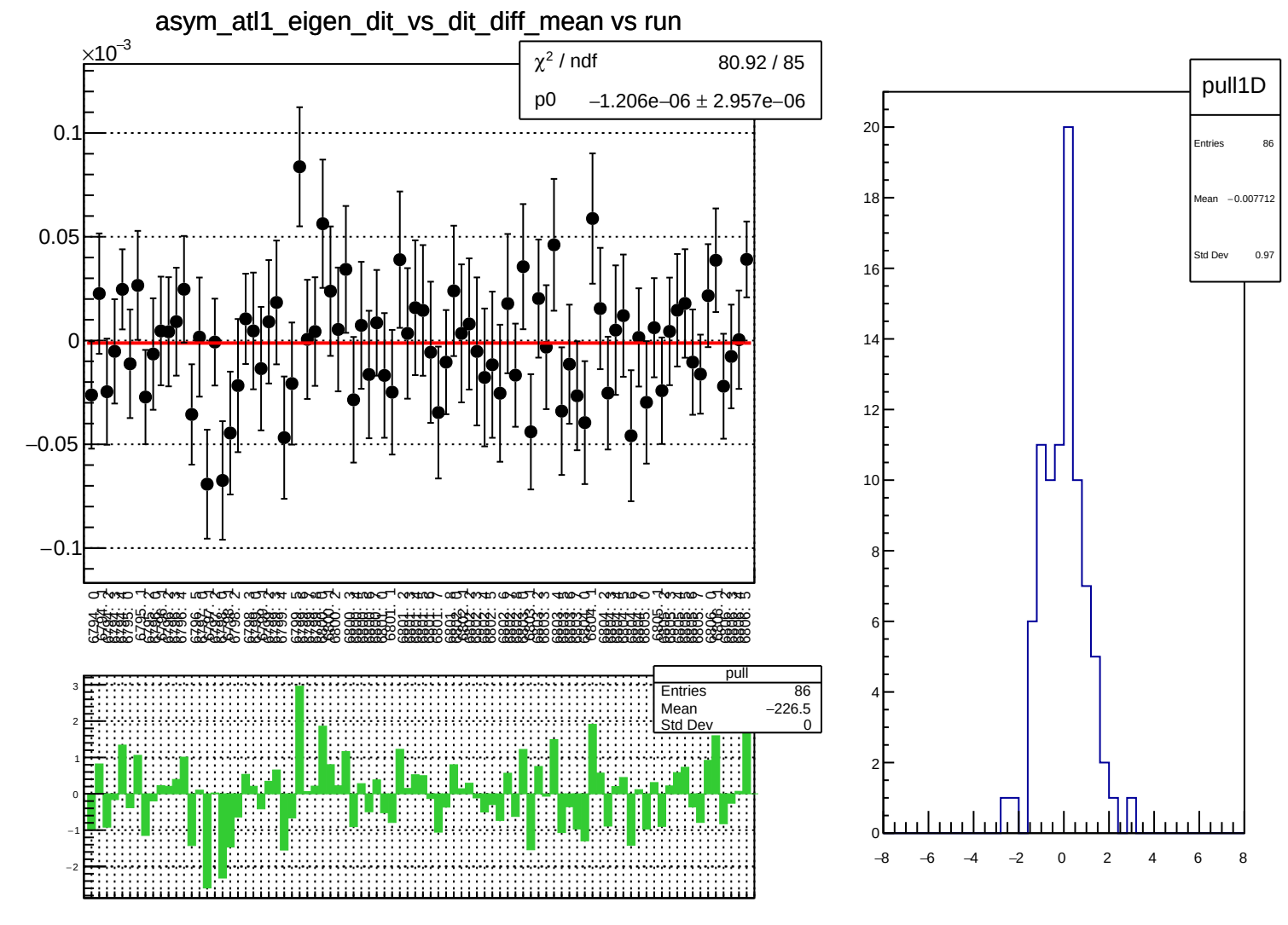

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.109e+06 / 85
p0 1.259e−11 ± 1.663e−14
2.5
2
1.5
1
0.5
0

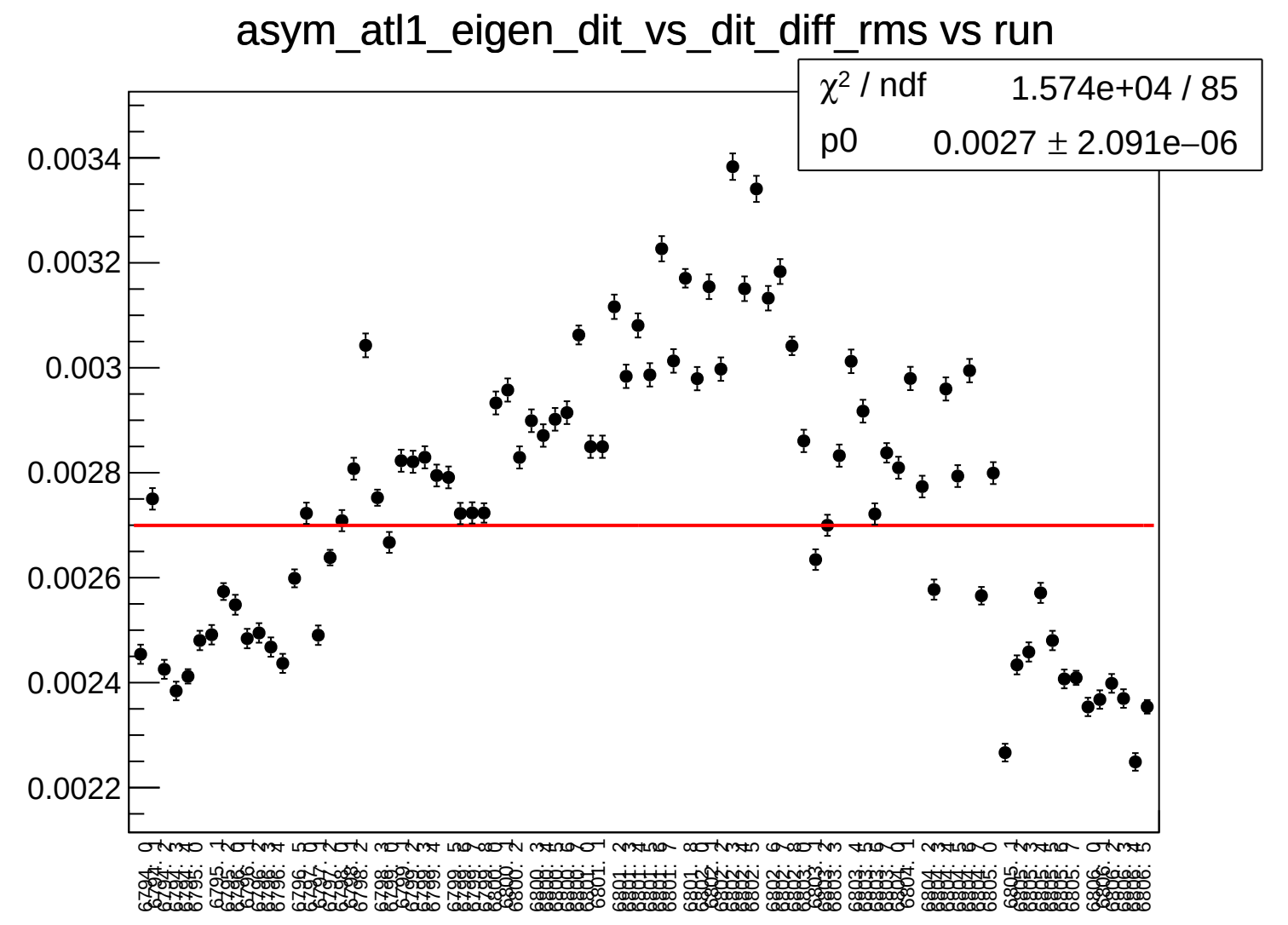

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.19 / 85
p0 0.1127 ± 0.06436
pull
Entries 86
Mean −5258
Std Dev 0
pull1D
Entries 86
Mean −0.0007023
Std Dev 1.047

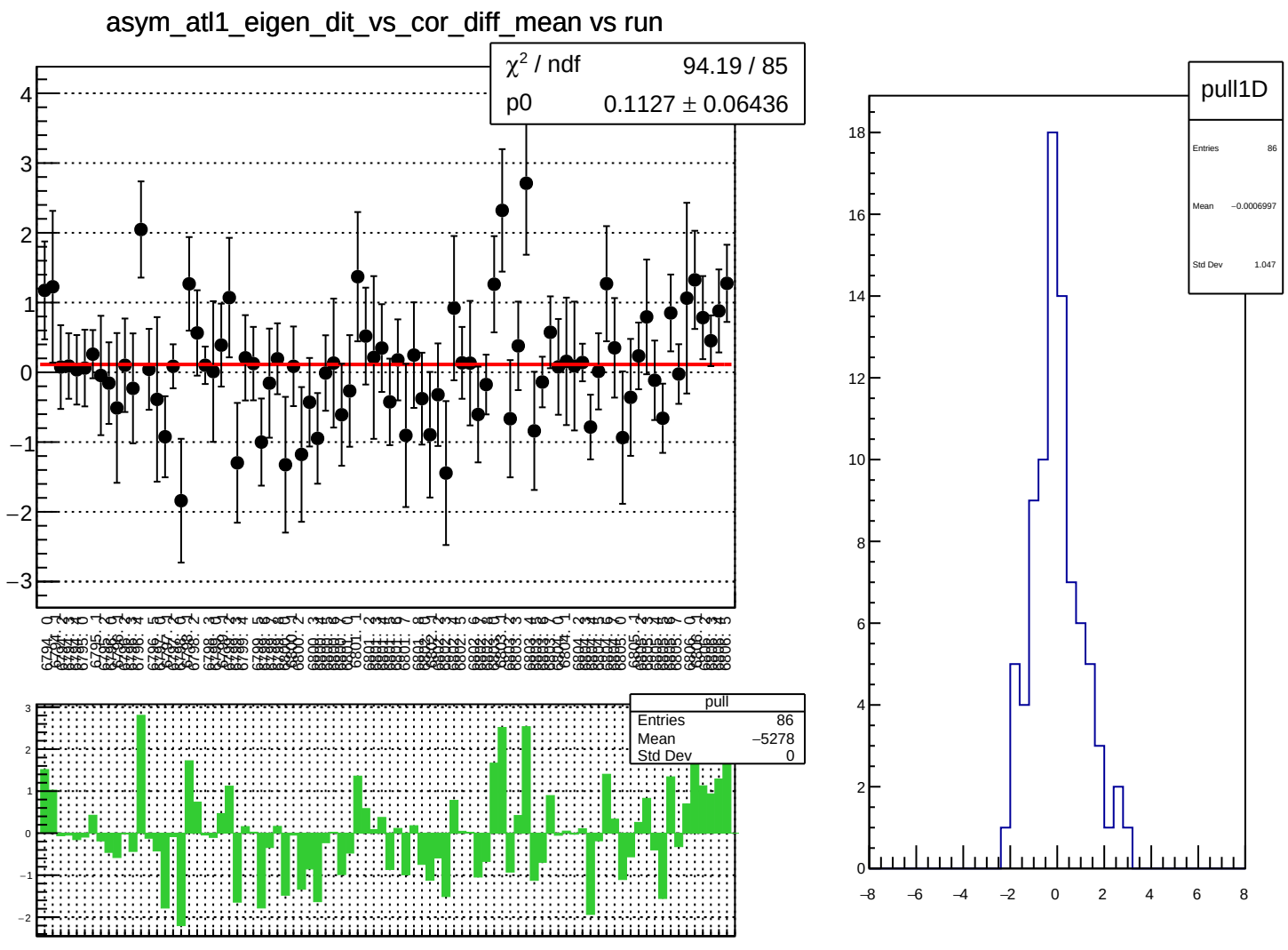

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 85
p0 55.89 ± 0.04551
140
120
100
80
60
40
20

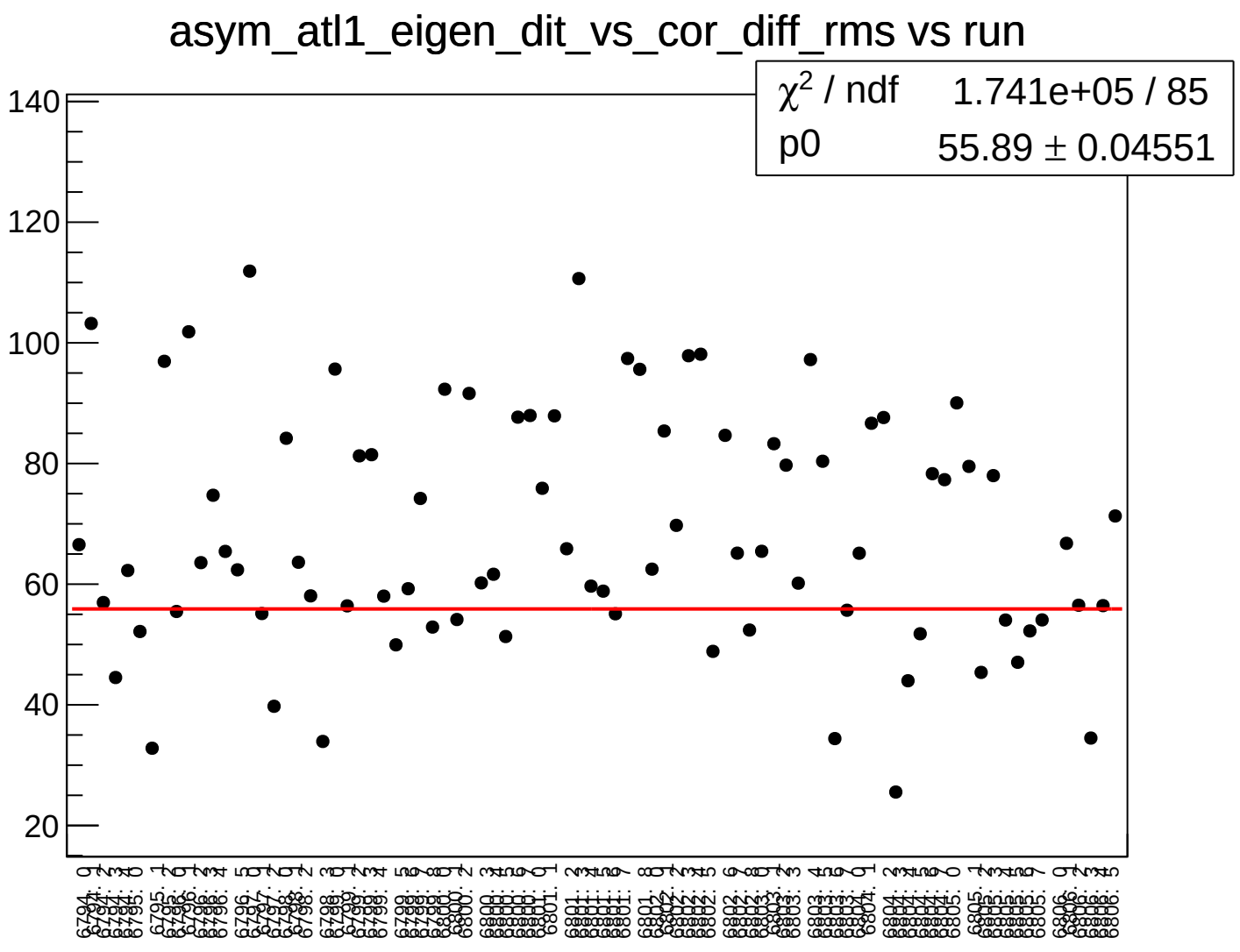

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.19 / 85
p0 0.1127 ± 0.06436
pull
Entries 86
Mean −5258
Std Dev 0
pull1D
Entries 86
Mean −0.0007023
Std Dev 1.047

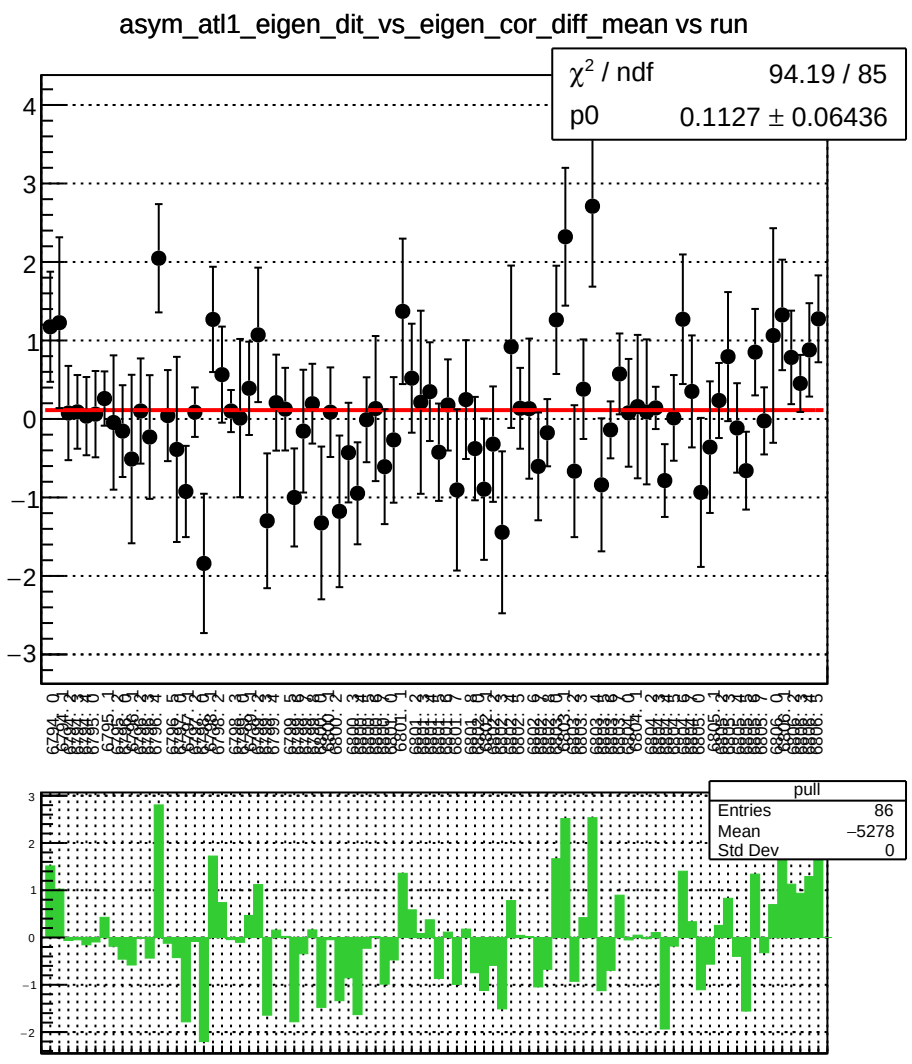

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 85
p0 55.89 ± 0.04551
140
120
100
80
60
40
20

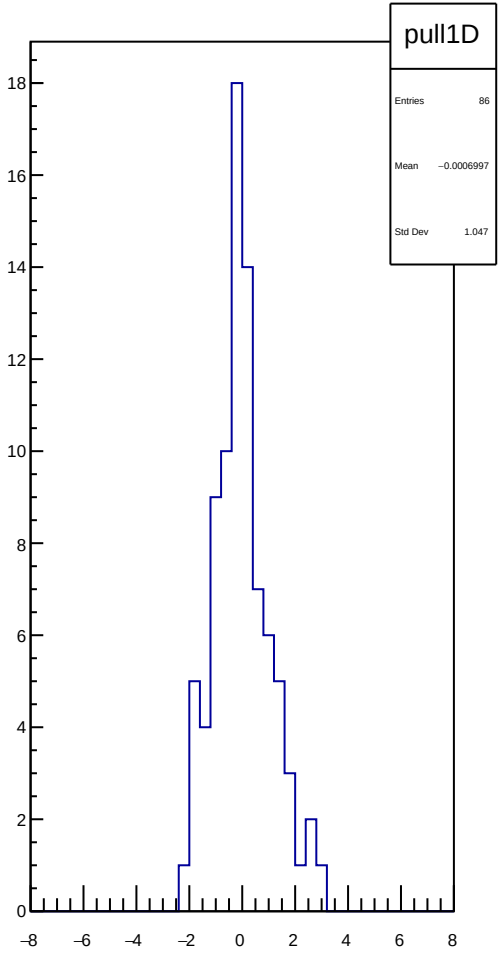

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.92 / 85
p0 −1.206e−06 ± 2.957e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −226.5
Std Dev 0
pull1D
Entries 86
Mean −0.007712
Std Dev 0.97

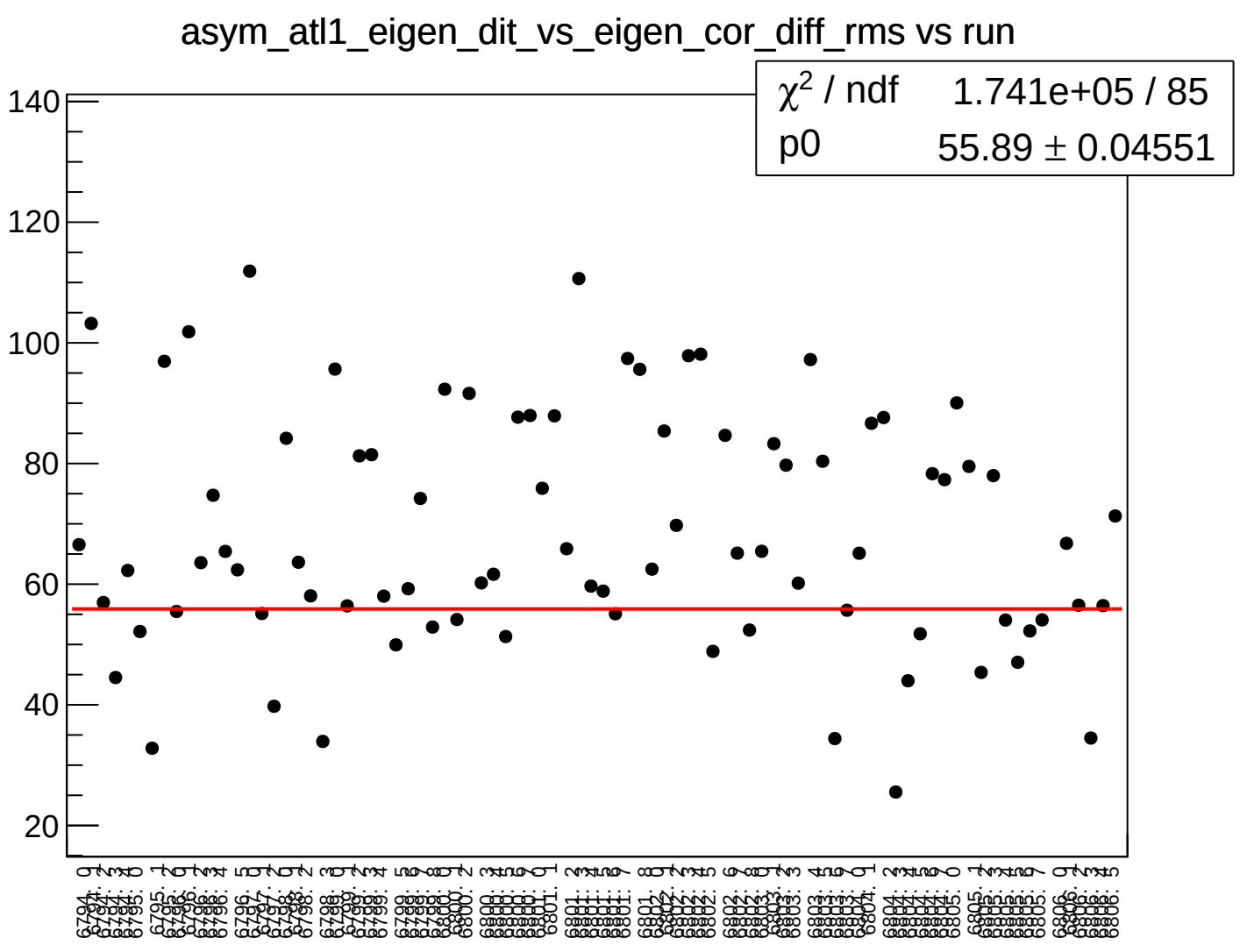

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.574e+04 / 85
p0 0.0027 ± 2.091e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

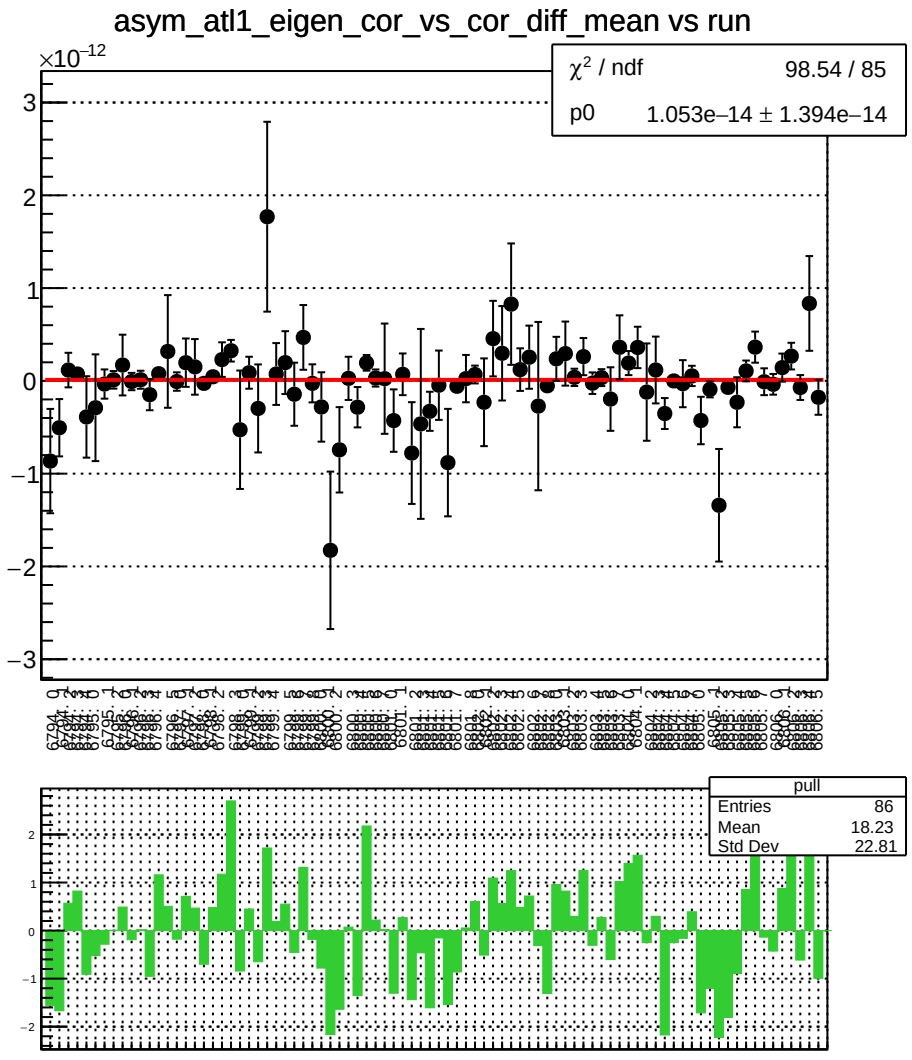

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.19 / 85
p0 0.1127 ± 0.06436
pull
Entries 86
Mean −5278
Std Dev 0
pull1D
Entries 86
Mean −0.0006997
Std Dev 1.047

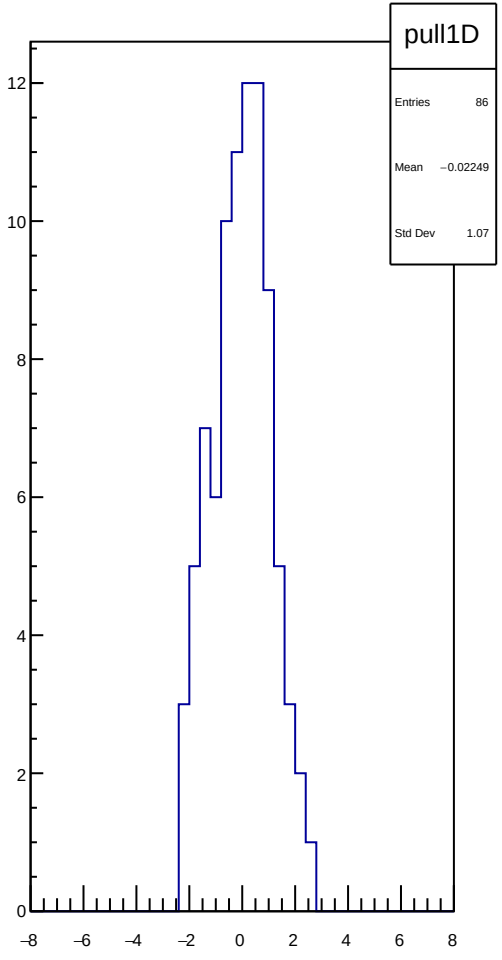

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 85
p0 55.89 ± 0.04551
140
120
100
80
60
40
20

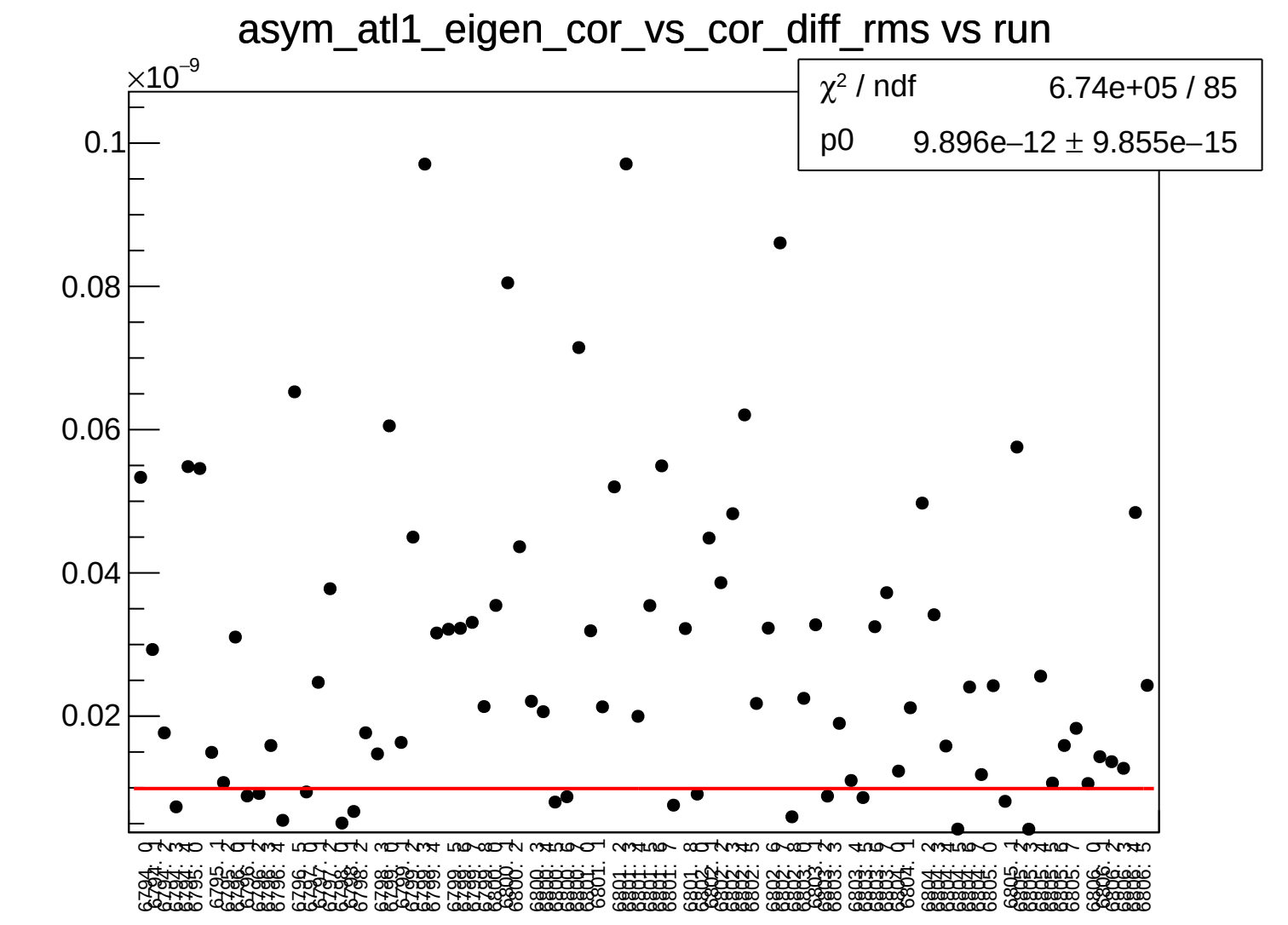

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.19 / 85
p0 0.1127 ± 0.06436
pull
Entries 86
Mean −5278
Std Dev 0

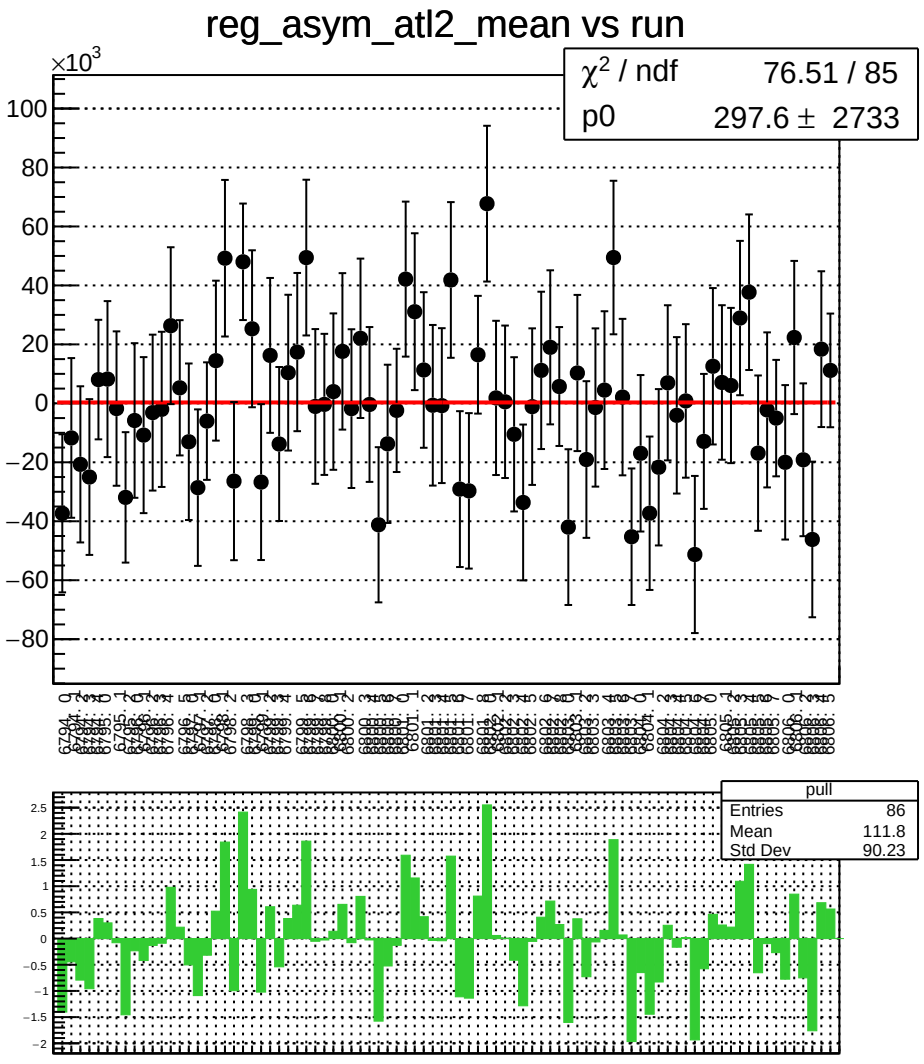

pull1D
Entries 86
Mean −0.0006997
Std Dev 1.047

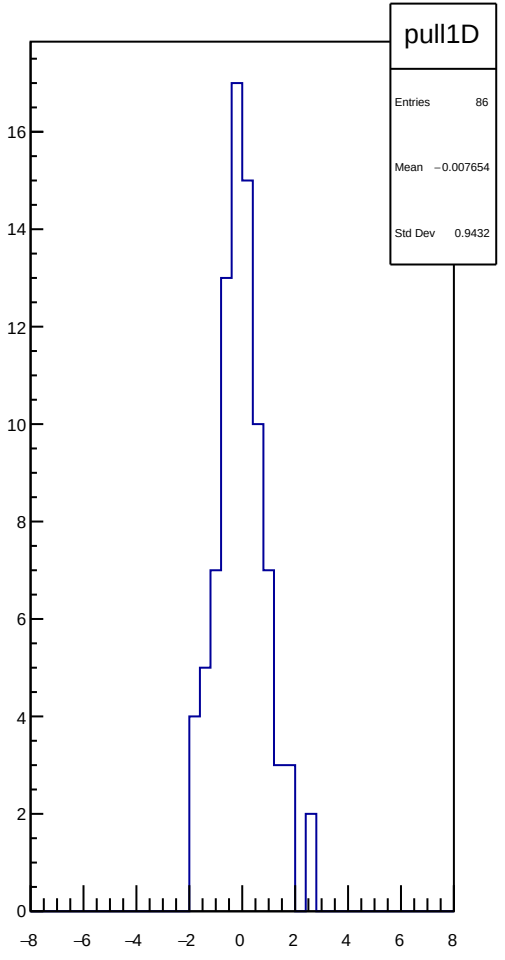

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.741e+05 / 85
p0 55.89 ± 0.04551
140
120
100
80
60
40
20

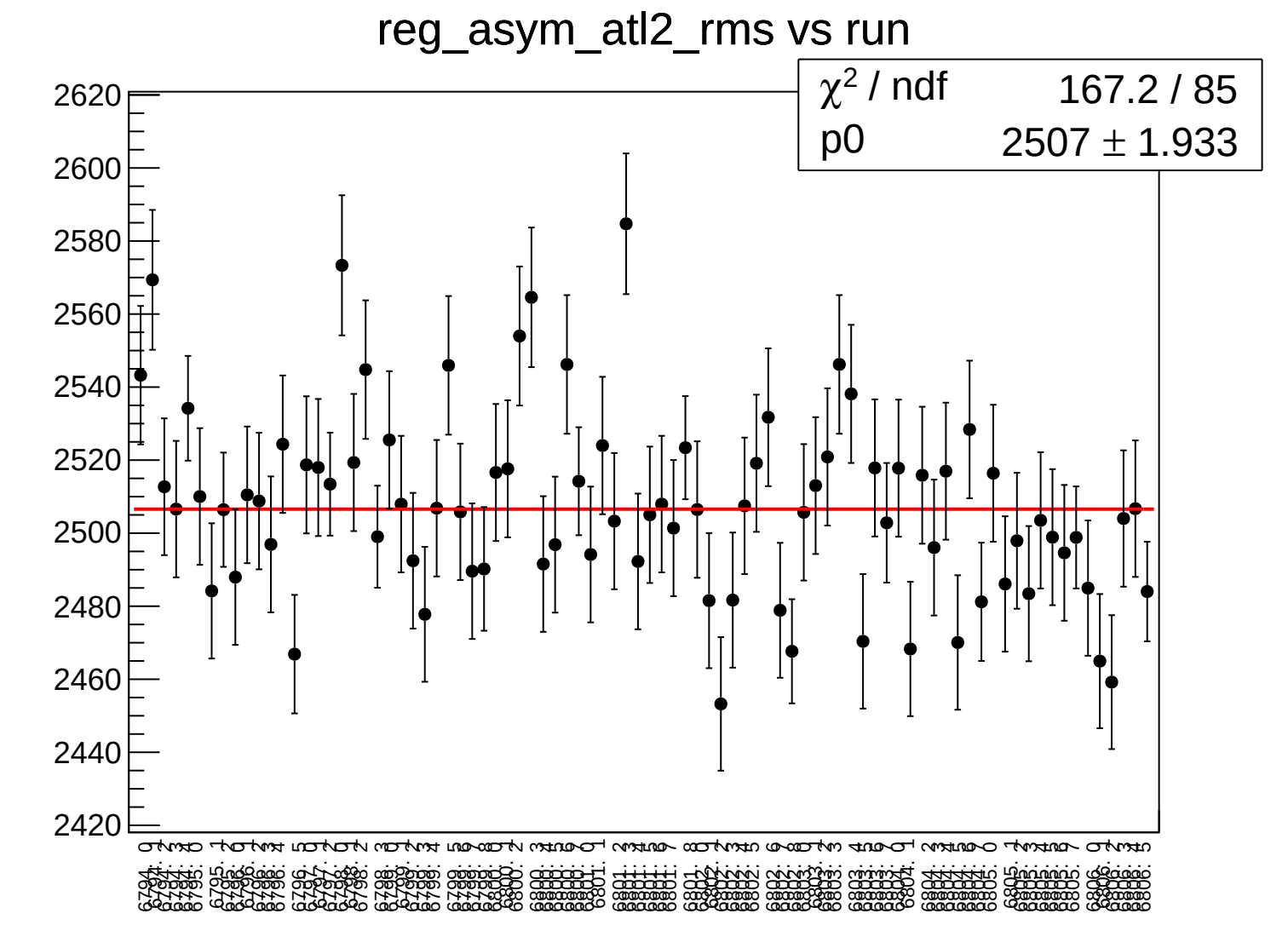

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.54 / 85
p0 1.053e−14 ± 1.394e−14
pull
Entries 86
Mean 18.23
Std Dev 22.81

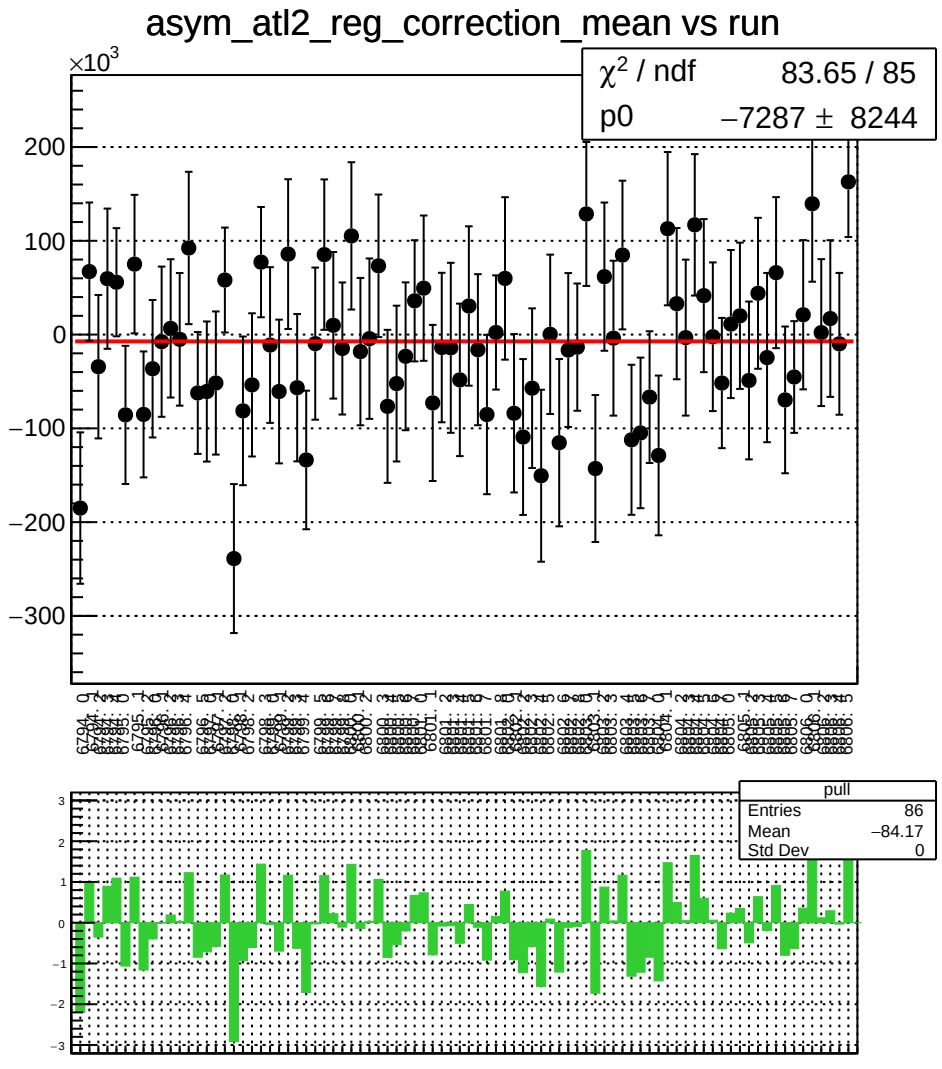

pull1D
Entries 86
Mean −0.02249
Std Dev 1.07

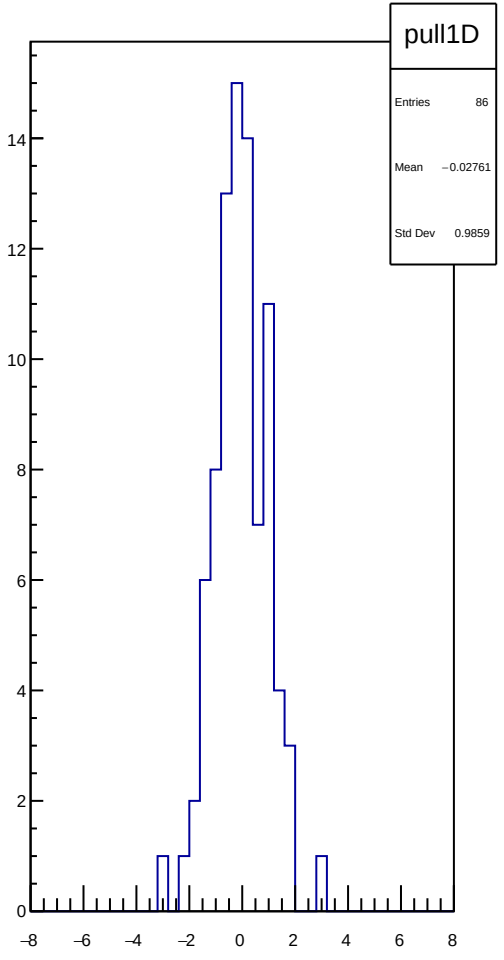

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.74e+05 / 85
p0 9.896e−12 ± 9.855e−15
0.1
0.08
0.06
0.04
0.02

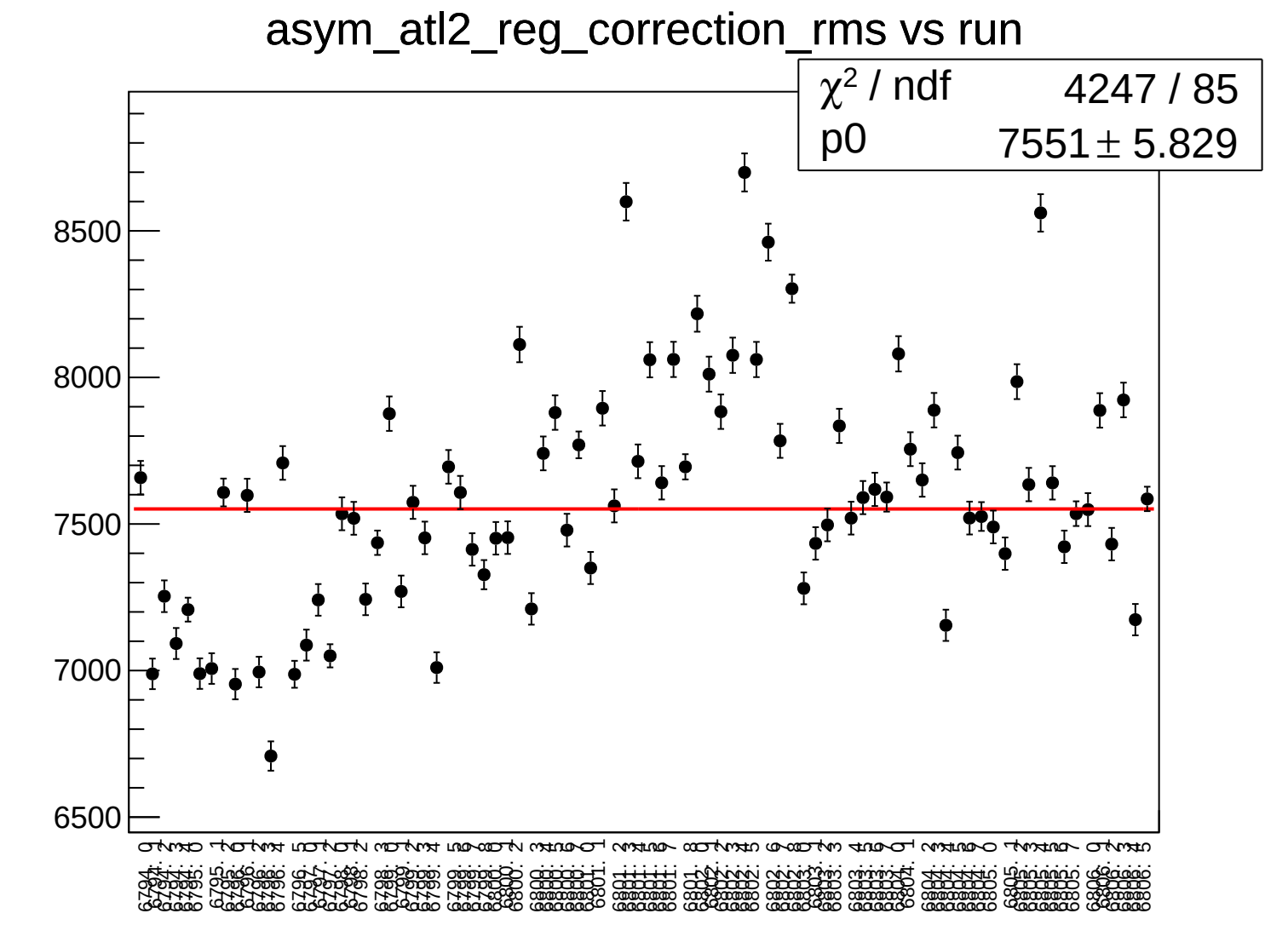

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 76.51 / 85
p0 297.6 ± 2733
pull
Entries 86
Mean 111.8
Std Dev 90.23

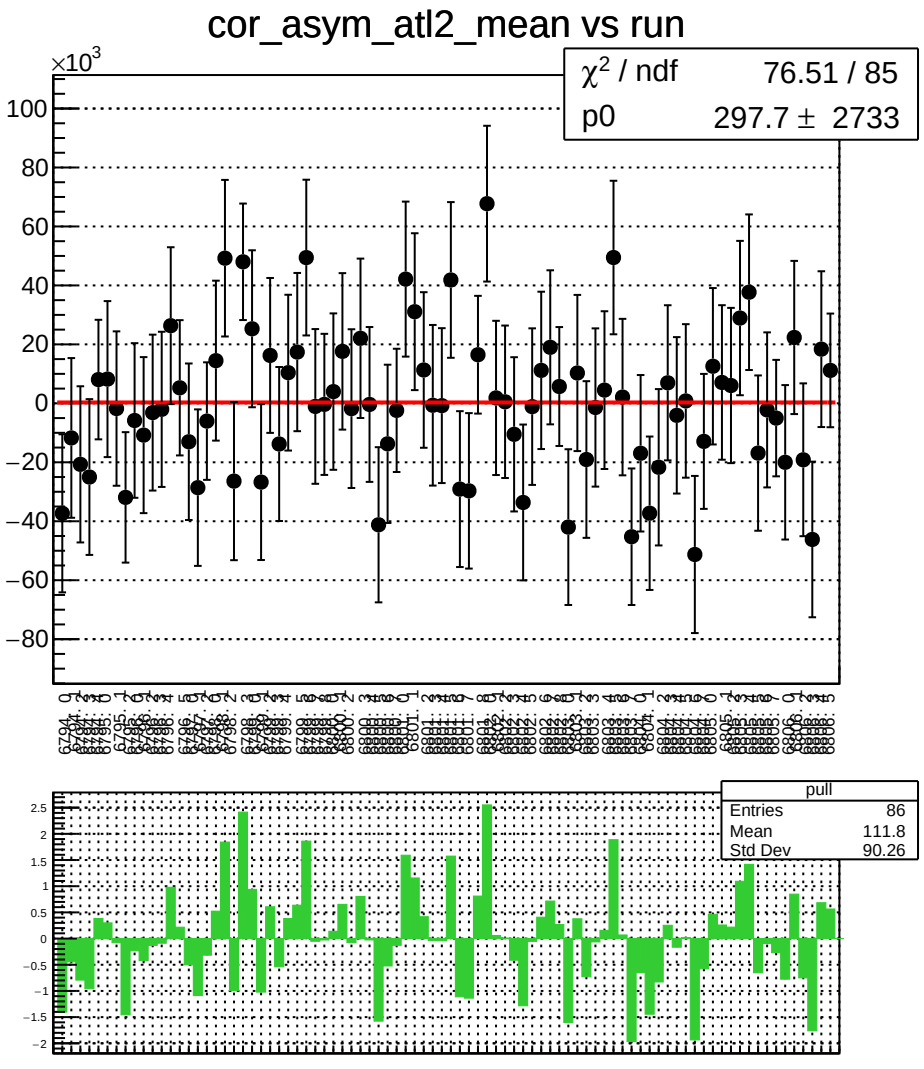

pull1D
Entries 86
Mean −0.007654
Std Dev 0.9432

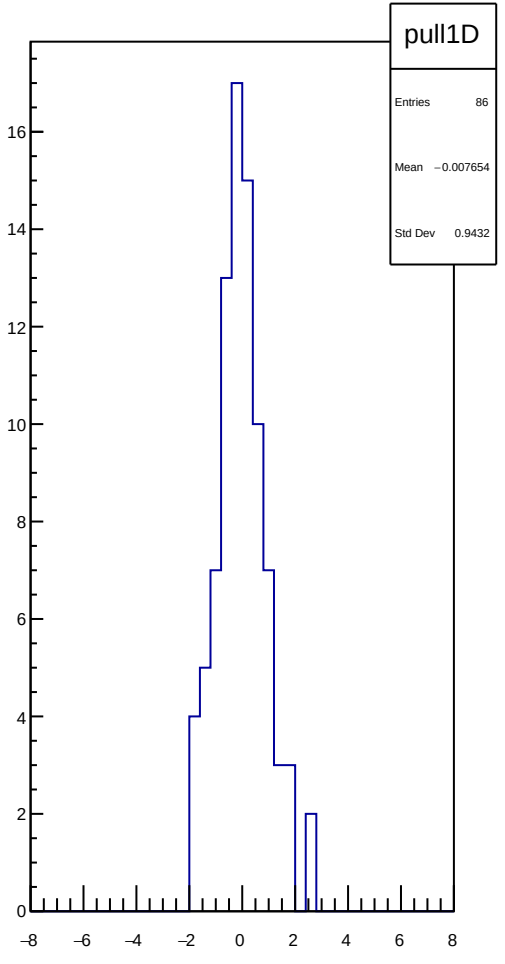

reg_asym_atl2_rms vs run
χ² / ndf 167.2 / 85
p0 2507 ± 1.933
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

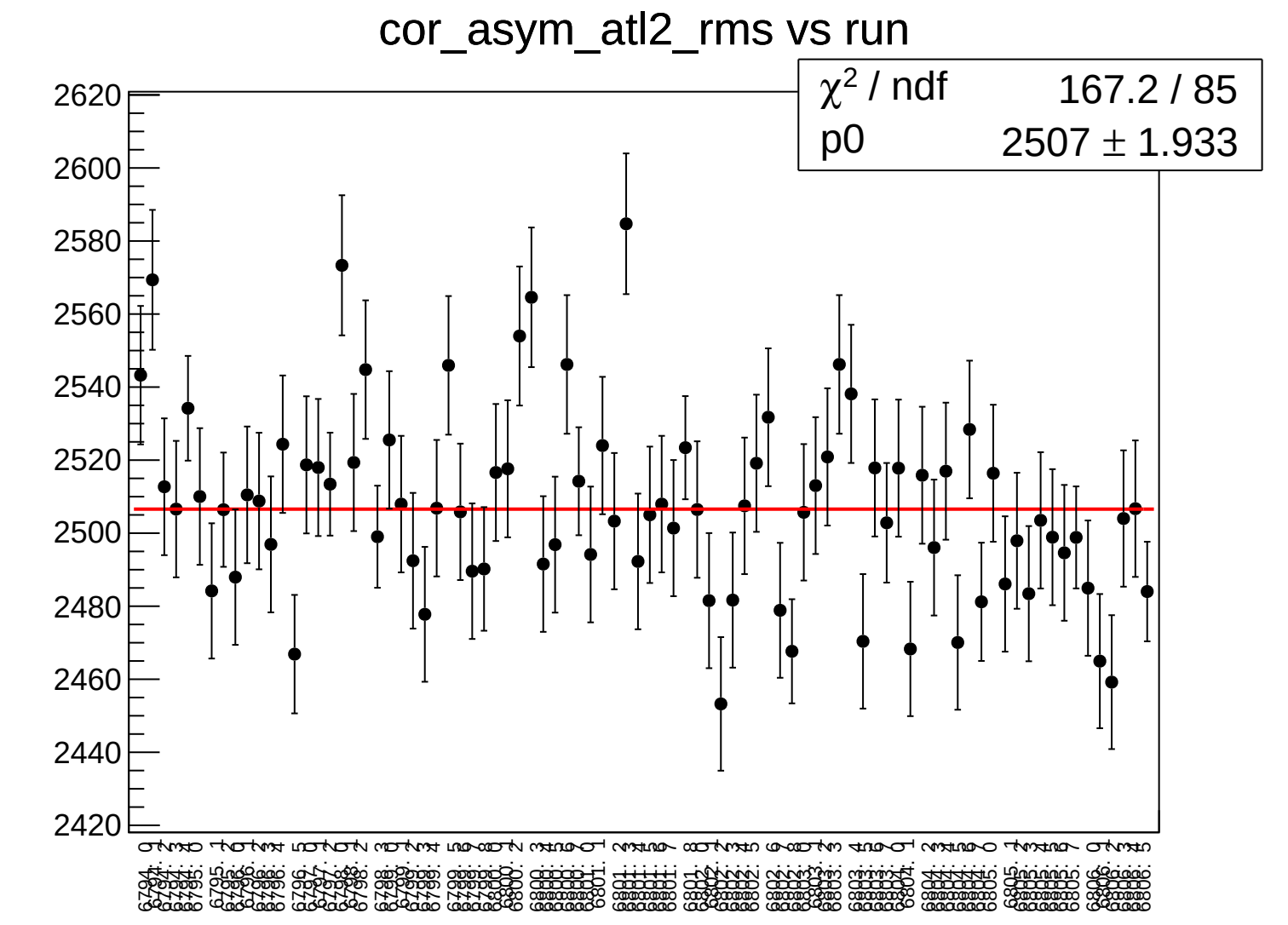

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 83.65 / 85
p0 −7287 ± 8244
200
100
0
−100
−200
−300
pull
Entries 86
Mean −84.17
Std Dev 0
3
2
1
0
−1
−2
−3

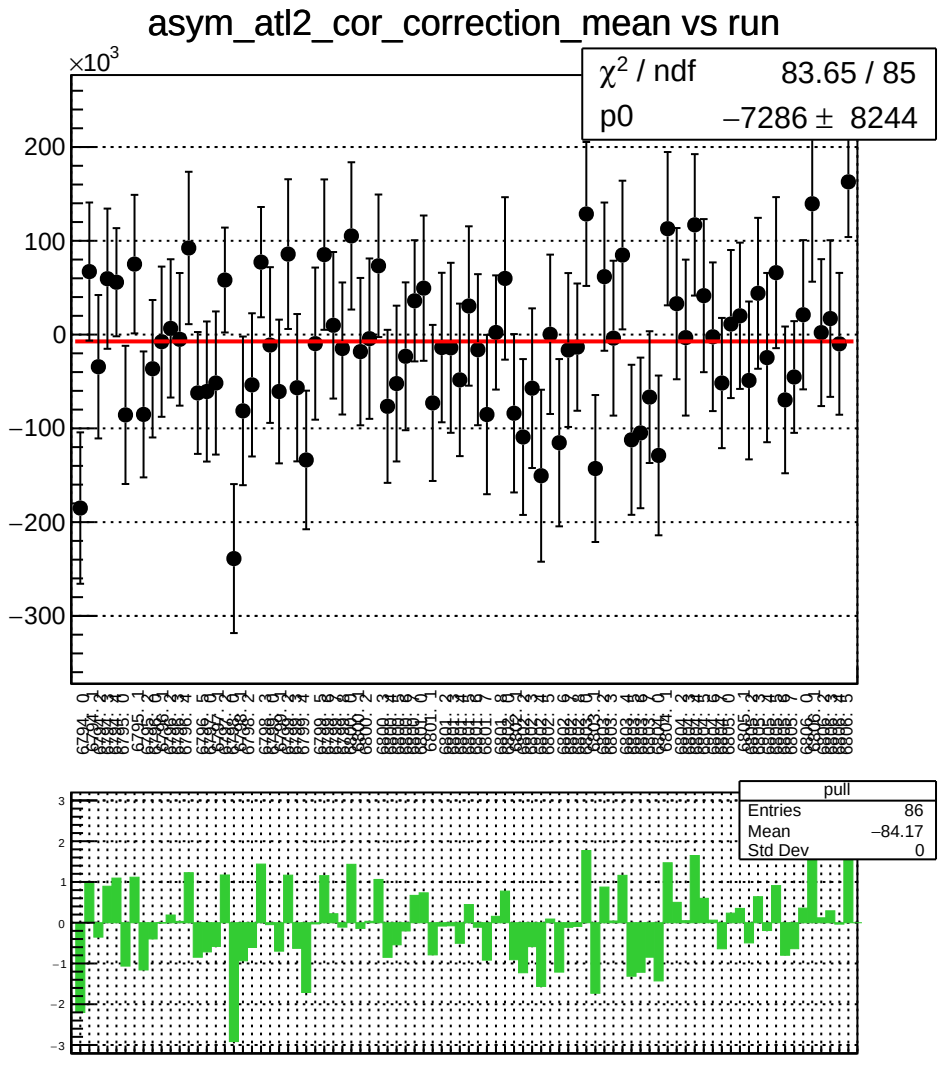

pull1D
Entries 86
Mean −0.02761
Std Dev 0.9859
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

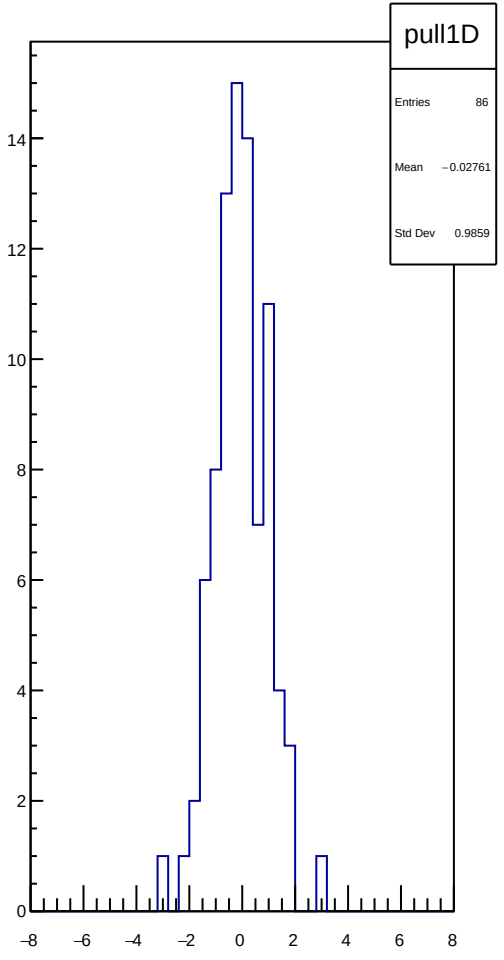

asym_atl2_reg_correction_rms vs run
χ² / ndf 4247 / 85
p0 7551 ± 5.829
8500
8000
7500
7000
6500

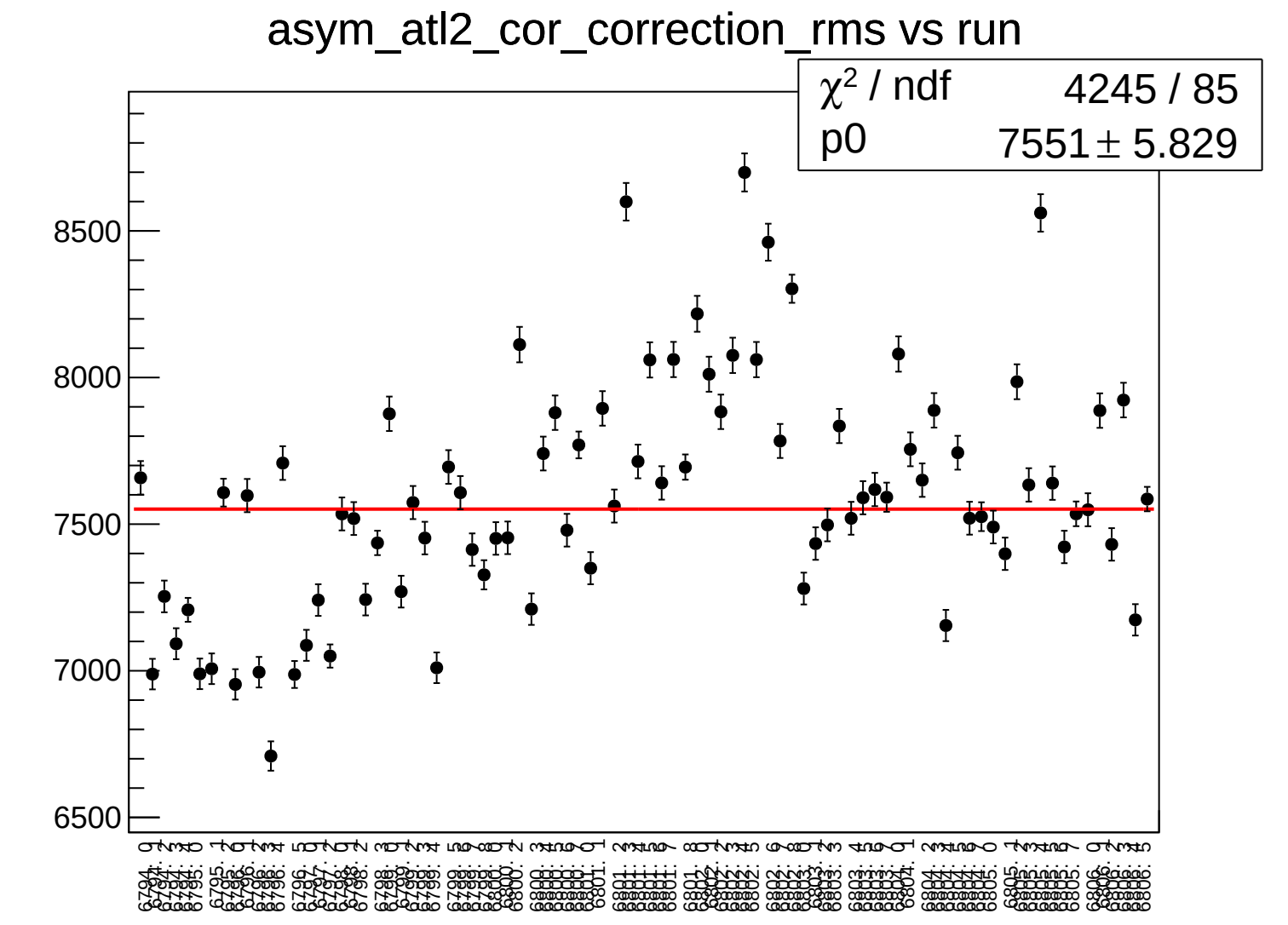

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 76.51 / 85
p0 297.7 ± 2733
pull
Entries 86
Mean 111.8
Std Dev 90.26

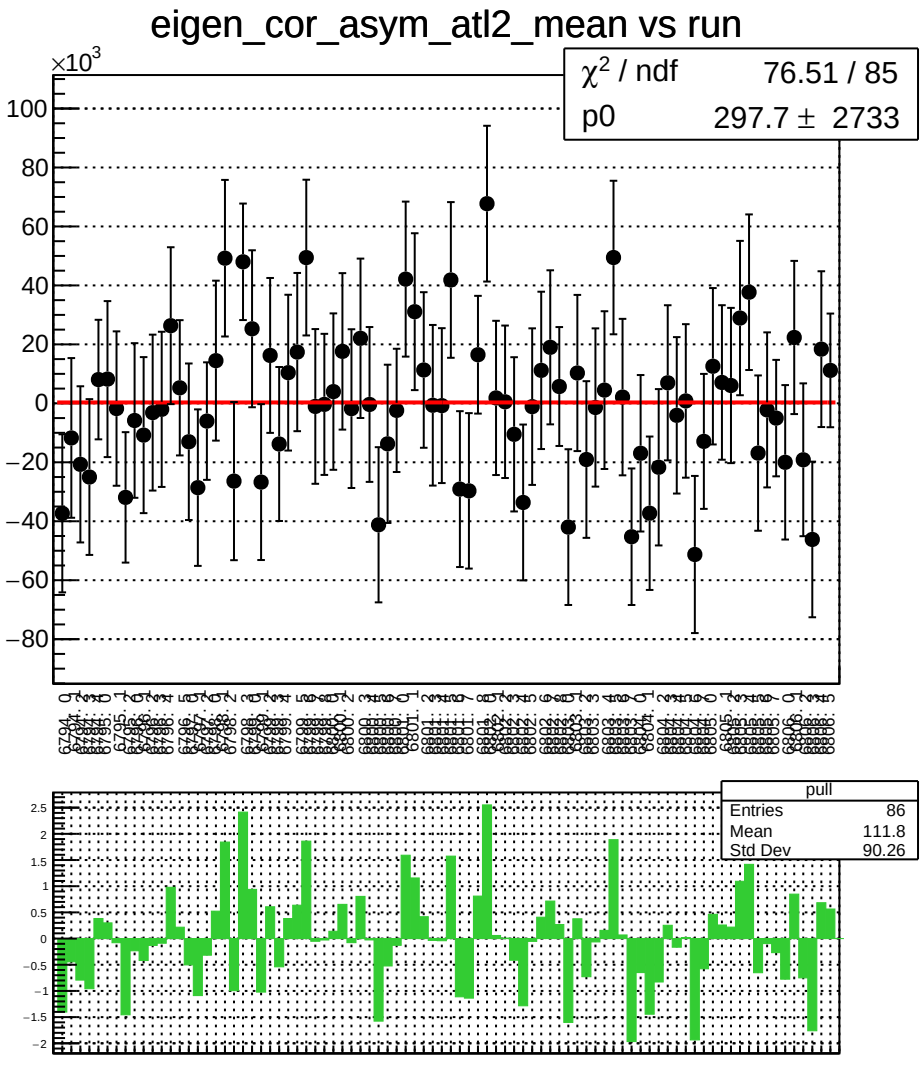

pull1D
Entries 86
Mean −0.007654
Std Dev 0.9432

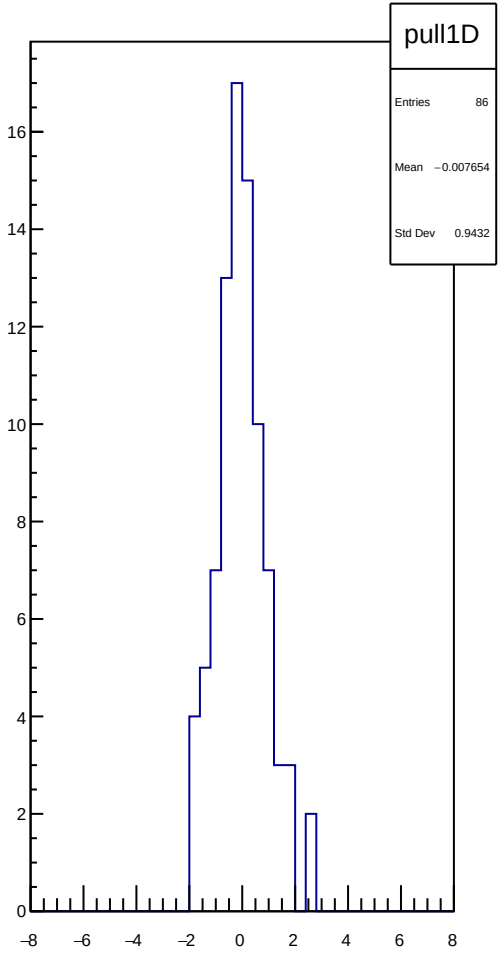

cor_asym_atl2_rms vs run
χ² / ndf 167.2 / 85
p0 2507 ± 1.933
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

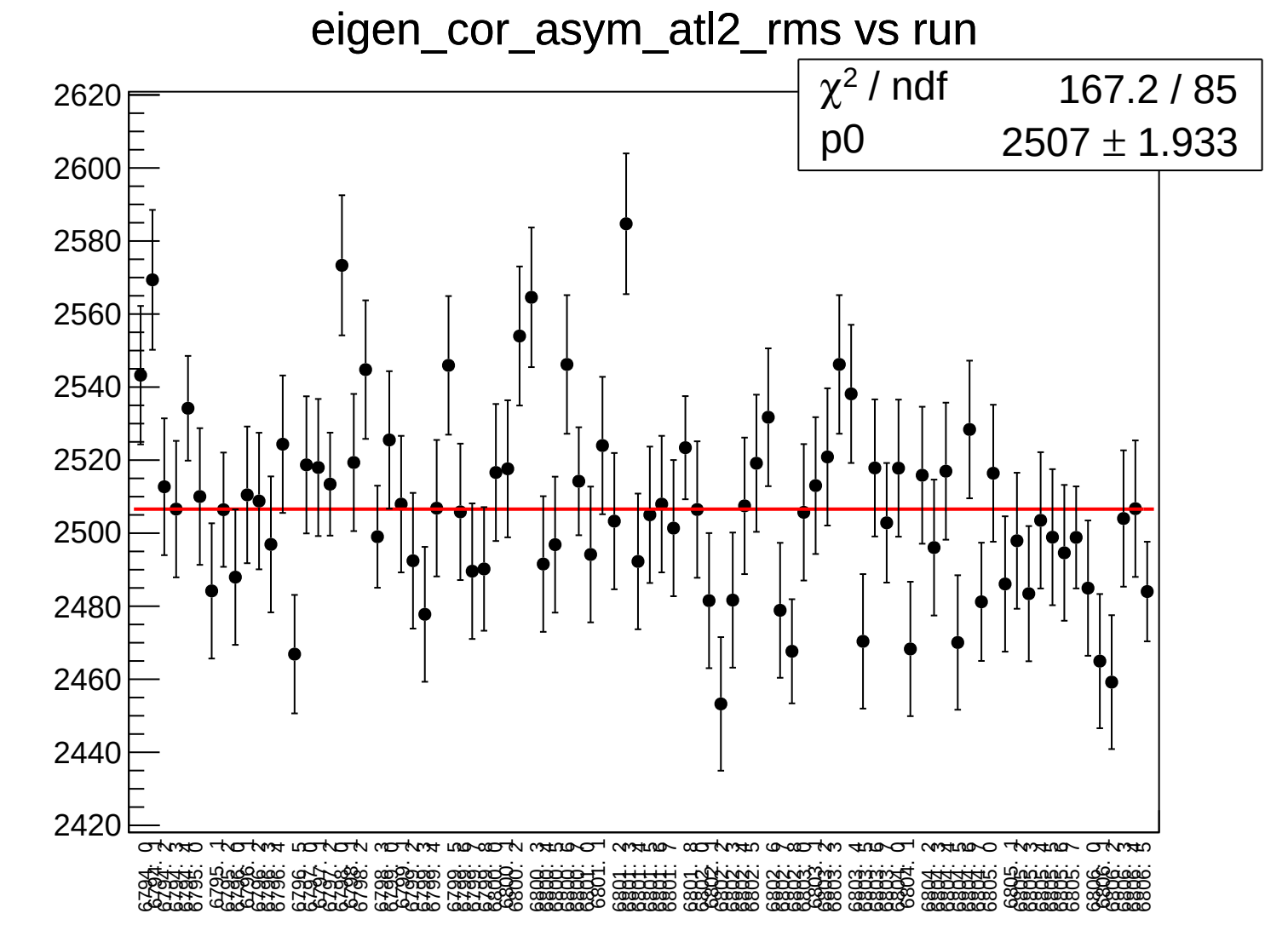

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 83.65 / 85
p0 −7286 ± 8244
200
100
0
−100
−200
−300
pull
Entries 86
Mean −84.17
Std Dev 0
3
2
1
0
−1
−2
−3

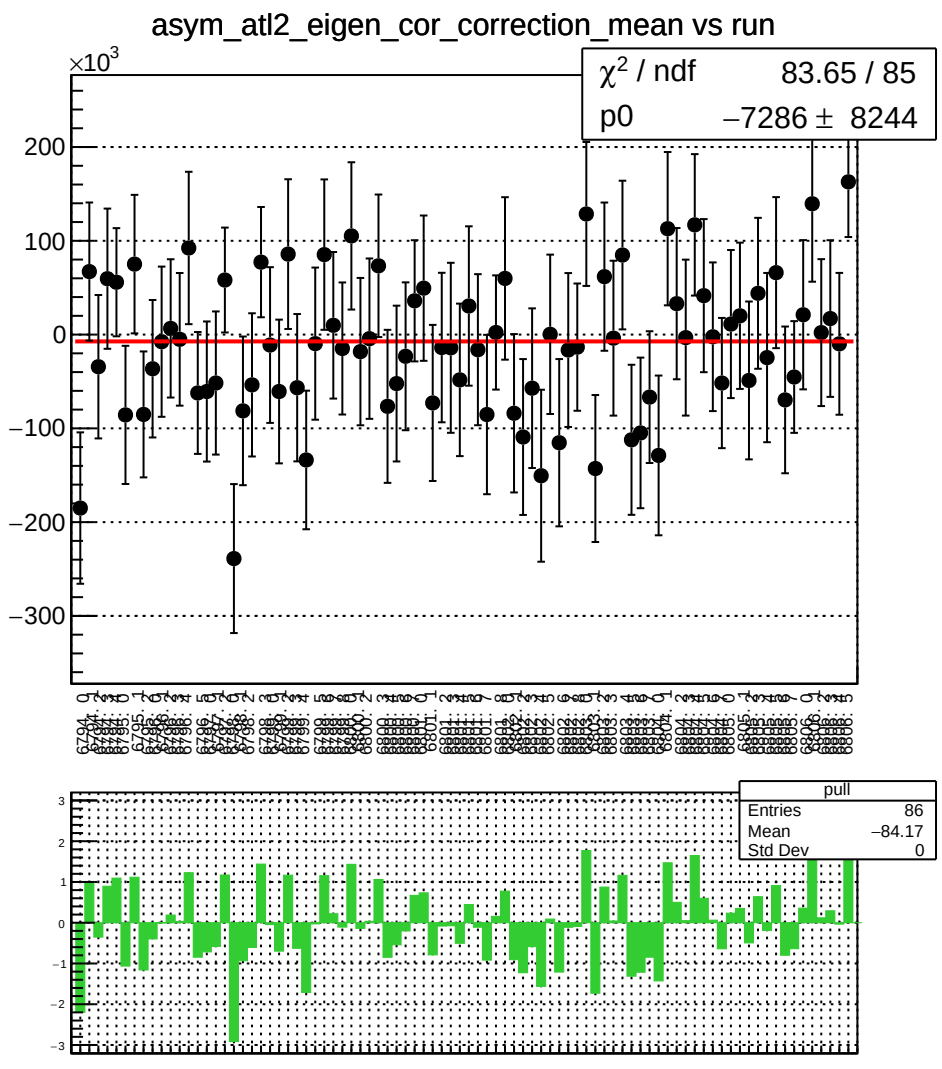

pull1D
Entries 86
Mean −0.02761
Std Dev 0.9859
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

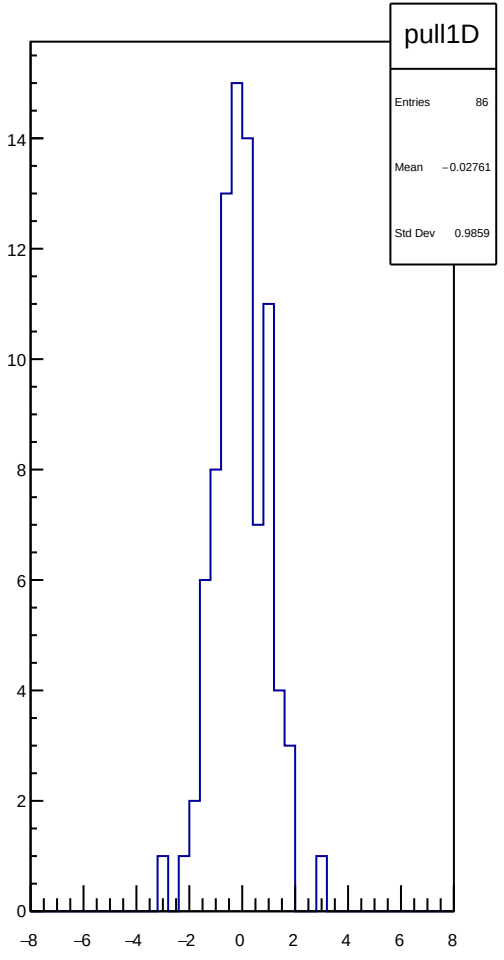

asym_atl2_cor_correction_rms vs run
χ² / ndf 4245 / 85
p0 7551 ± 5.829
8500
8000
7500
7000
6500

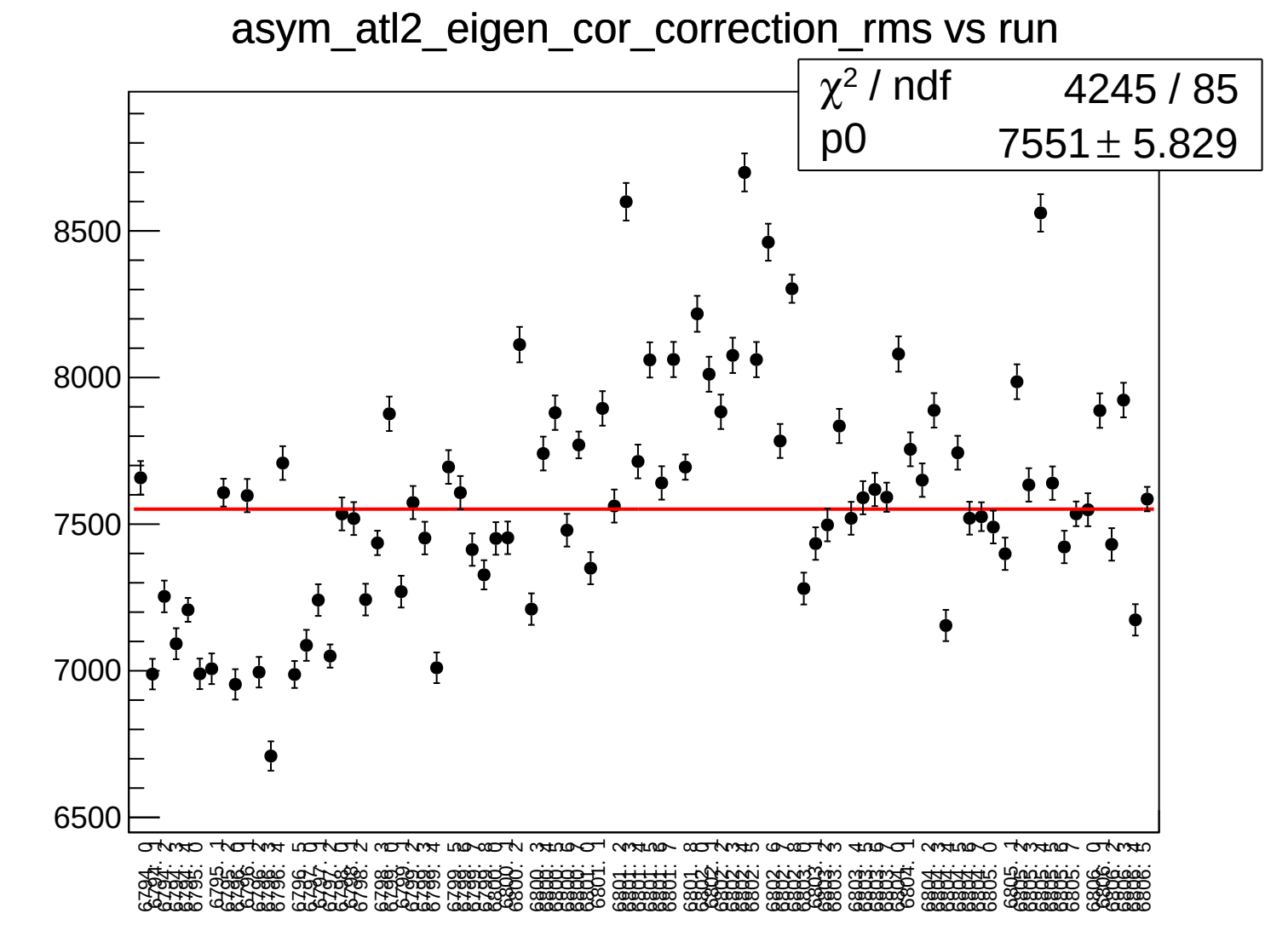

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 76.51 / 85
p0 297.7 ± 2733
pull
Entries 86
Mean 111.8
Std Dev 90.26

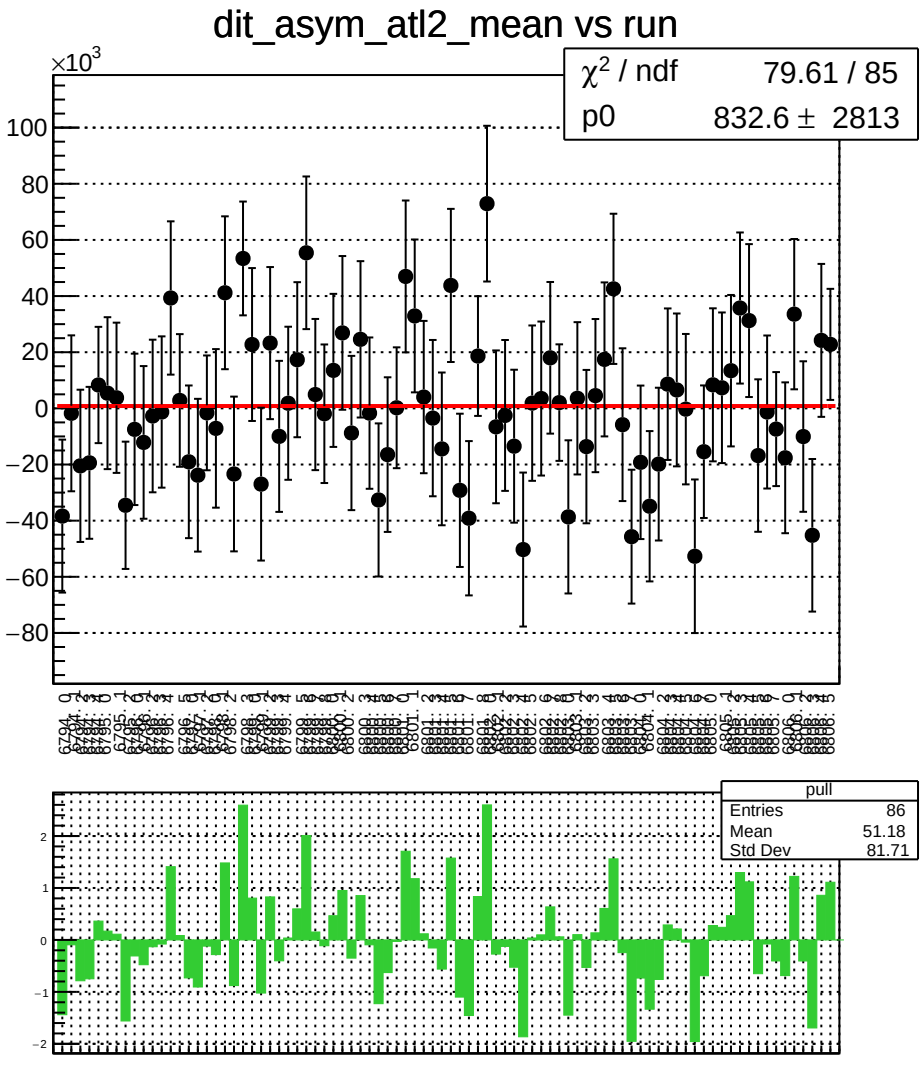

pull1D
Entries 86
Mean −0.007654
Std Dev 0.9432

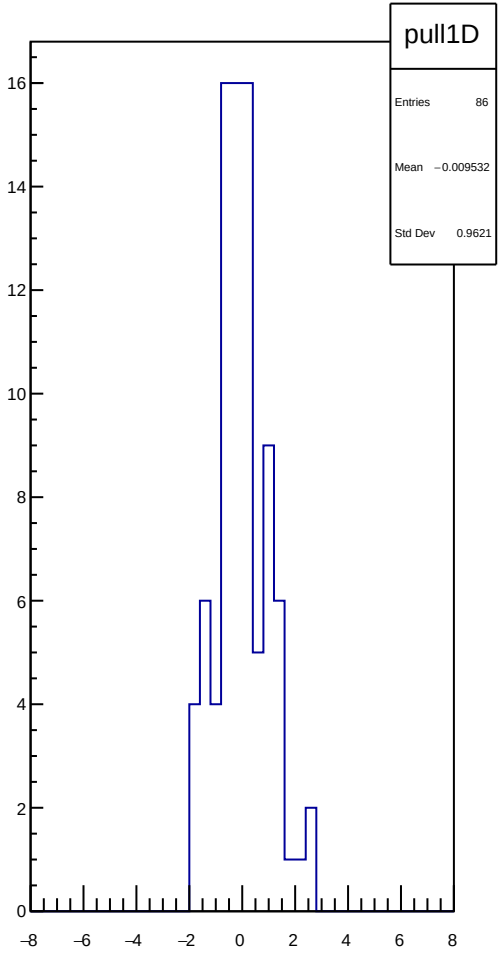

eigen_cor_asym_atl2_rms vs run
χ² / ndf 167.2 / 85
p0 2507 ± 1.933
2620
2600
2580
2560
2540
2520
2500
2480
2460
2440
2420

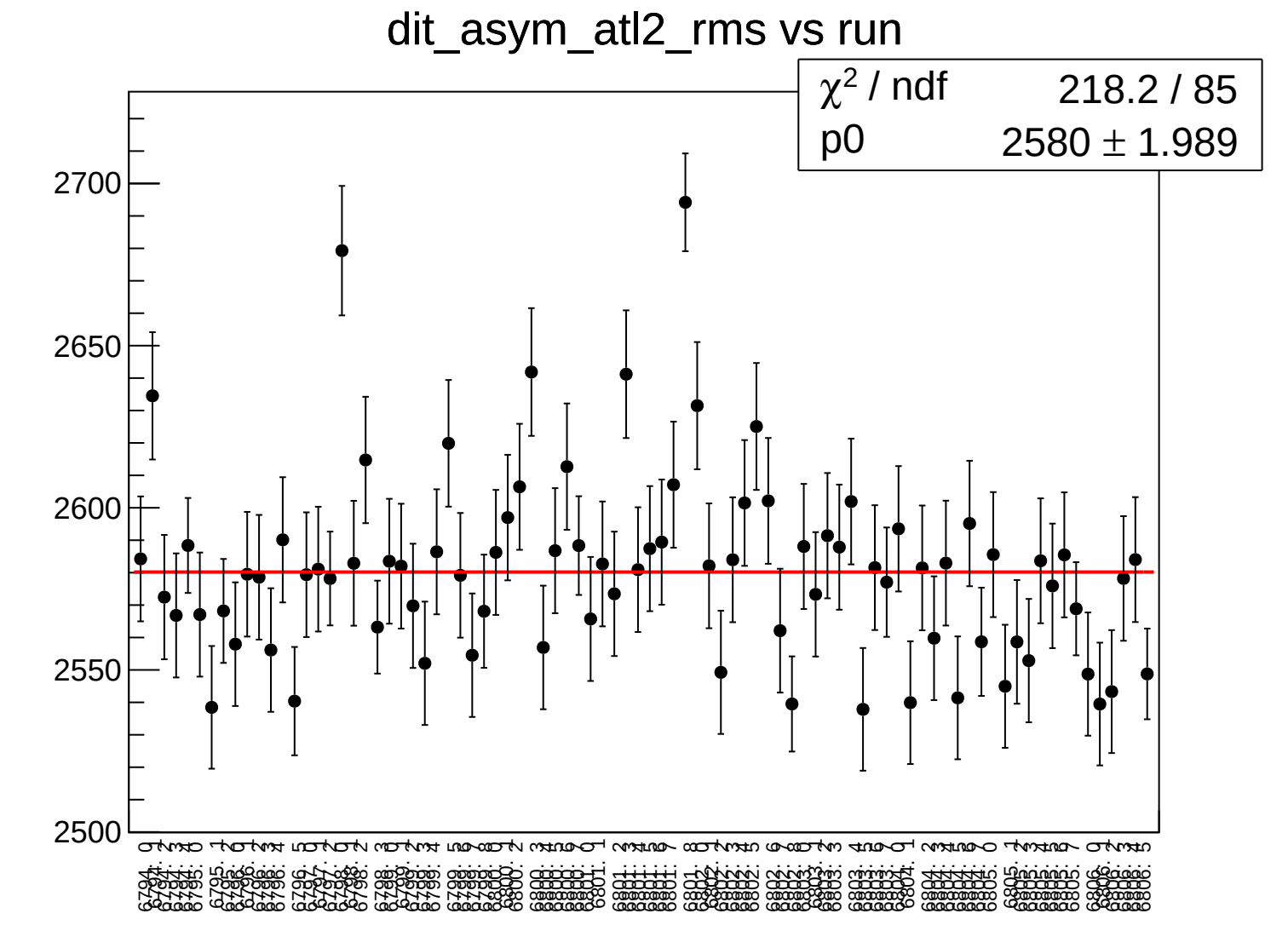

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 83.65 / 85
p0 −7286 ± 8244
200
100
0
−100
−200
−300
pull
Entries 86
Mean −84.17
Std Dev 0
3
2
1
0
−1
−2
−3

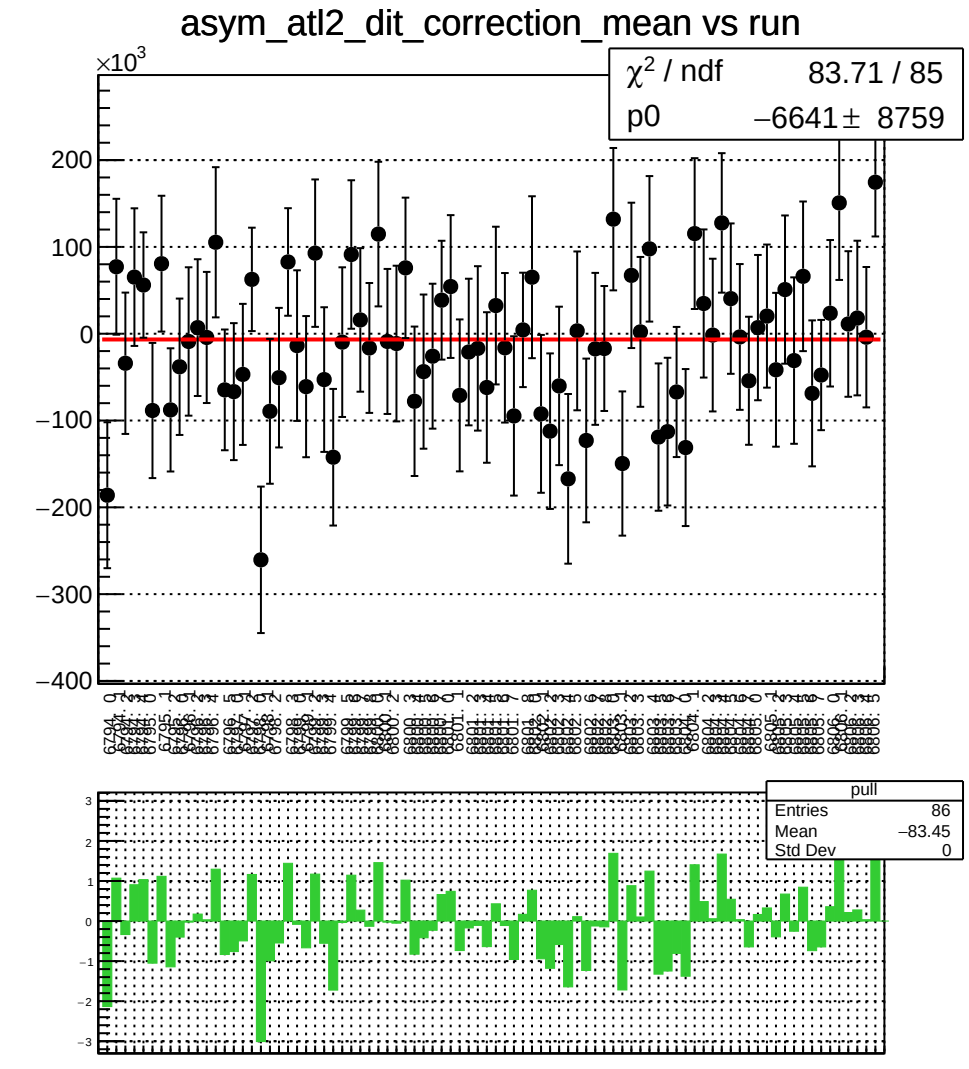

pull1D
Entries 86
Mean −0.02761
Std Dev 0.9859
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

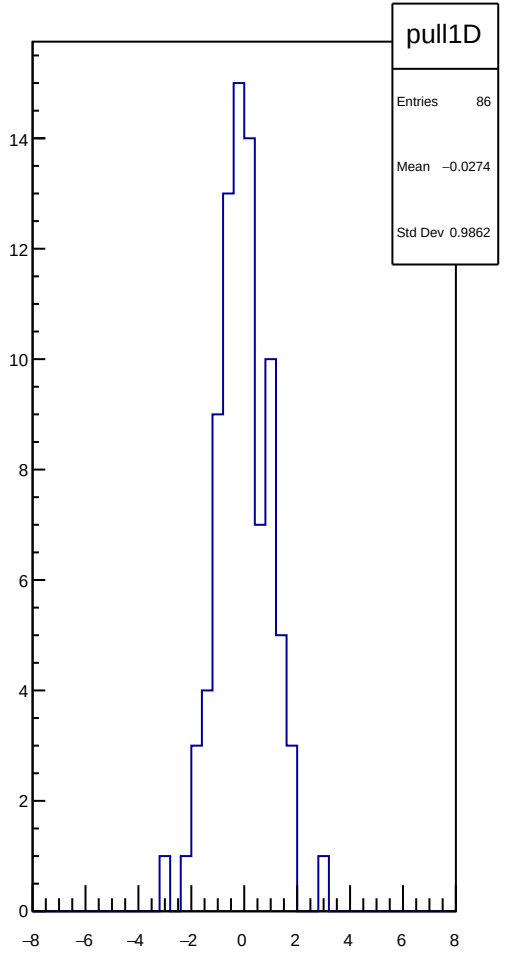

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 4245 / 85
p0 7551 ± 5.829
8500
8000
7500
7000
6500

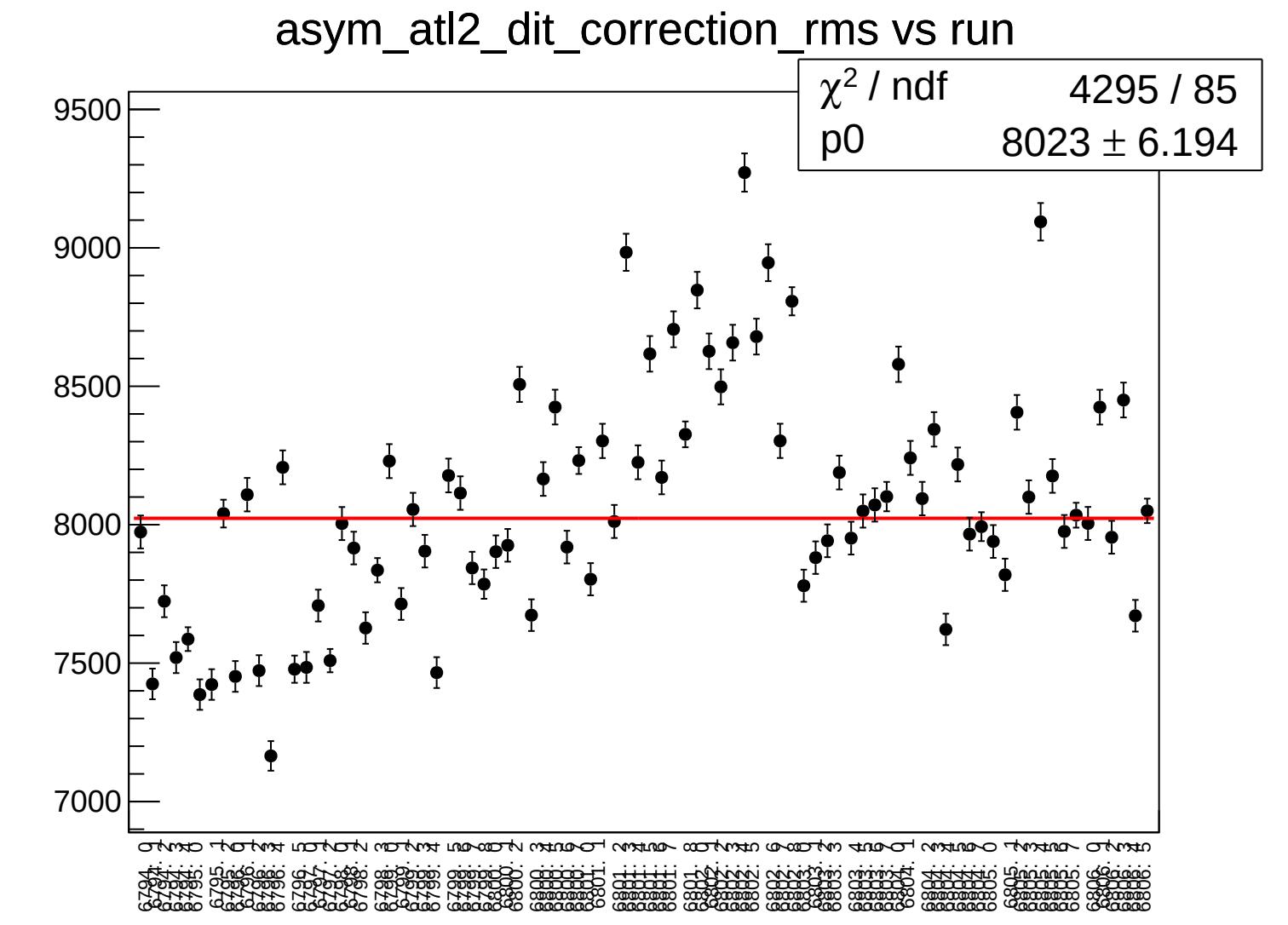

dit_asym_atl2_mean vs run
×10^3
χ² / ndf 79.61 / 85
p0 832.6 ± 2813
pull
Entries 86
Mean 51.18
Std Dev 81.71

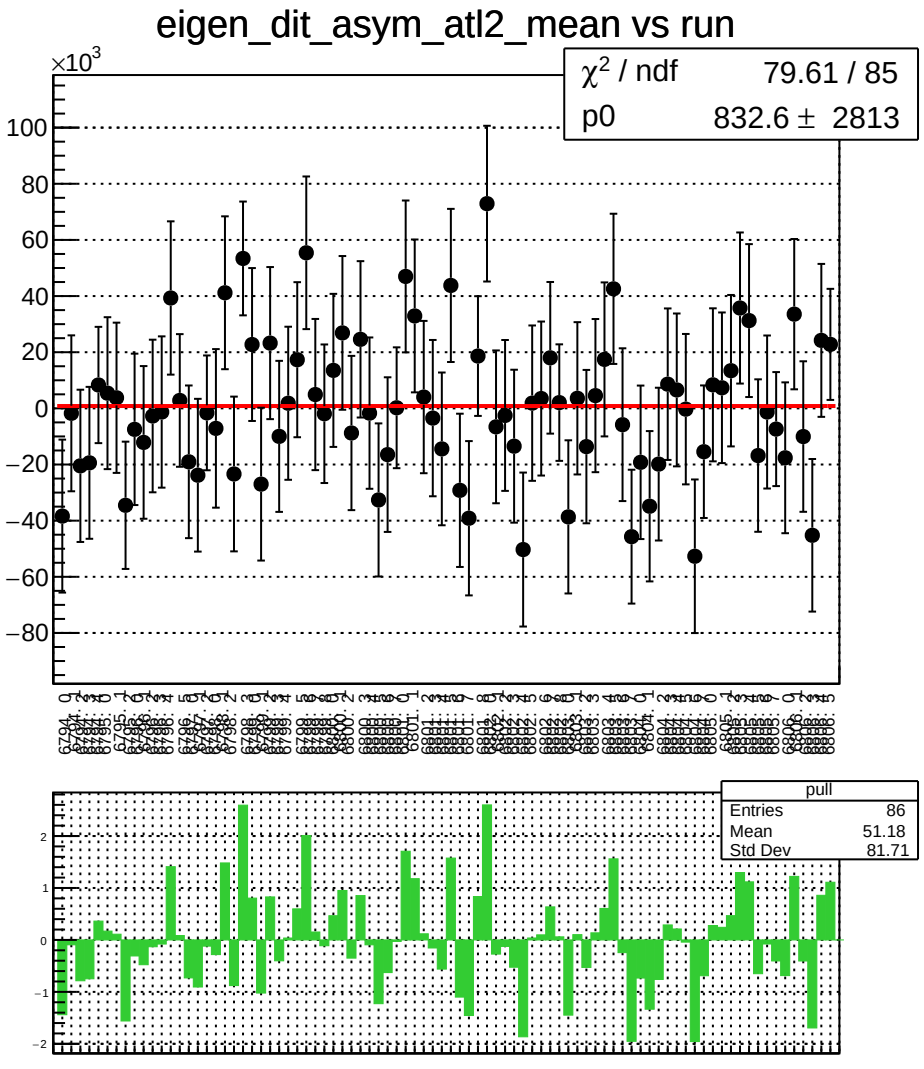

pull1D
Entries 86
Mean −0.009532
Std Dev 0.9621

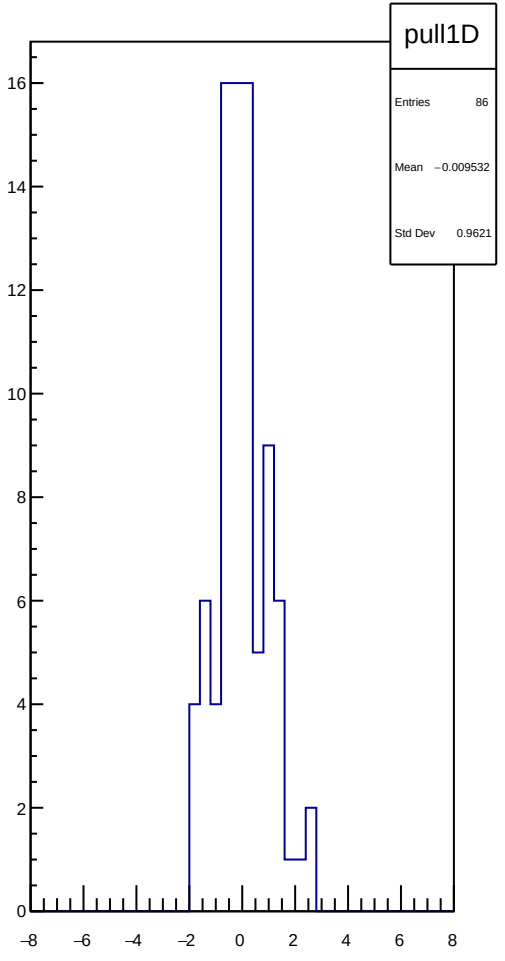

dit_asym_atl2_rms vs run
χ^2 / ndf 218.2 / 85
p0 2580 ± 1.989
2700
2650
2600
2550
2500

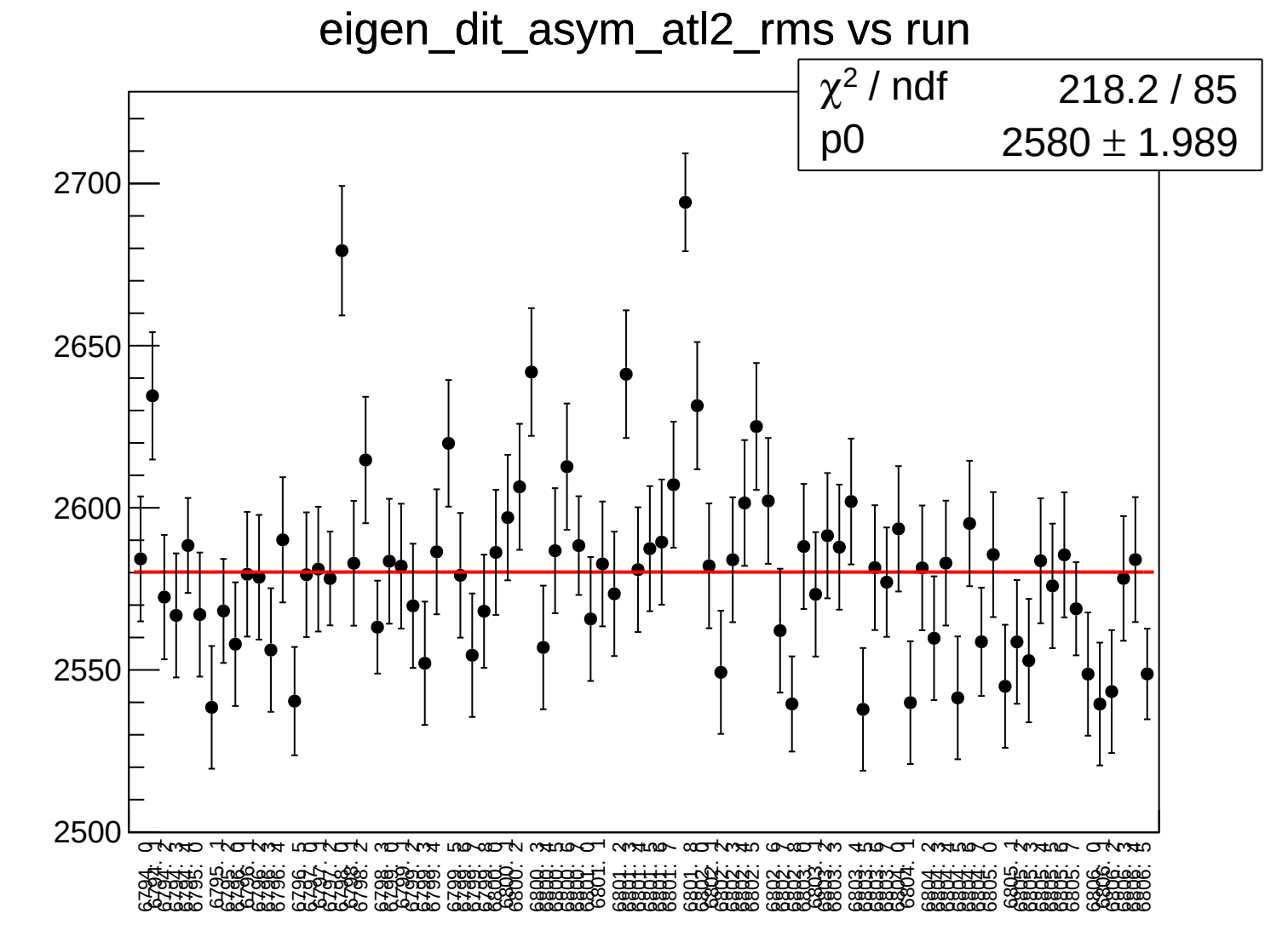

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 83.71 / 85
p0 −6641 ± 8759
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −83.45
Std Dev 0
3
2
1
0
−1
−2
−3

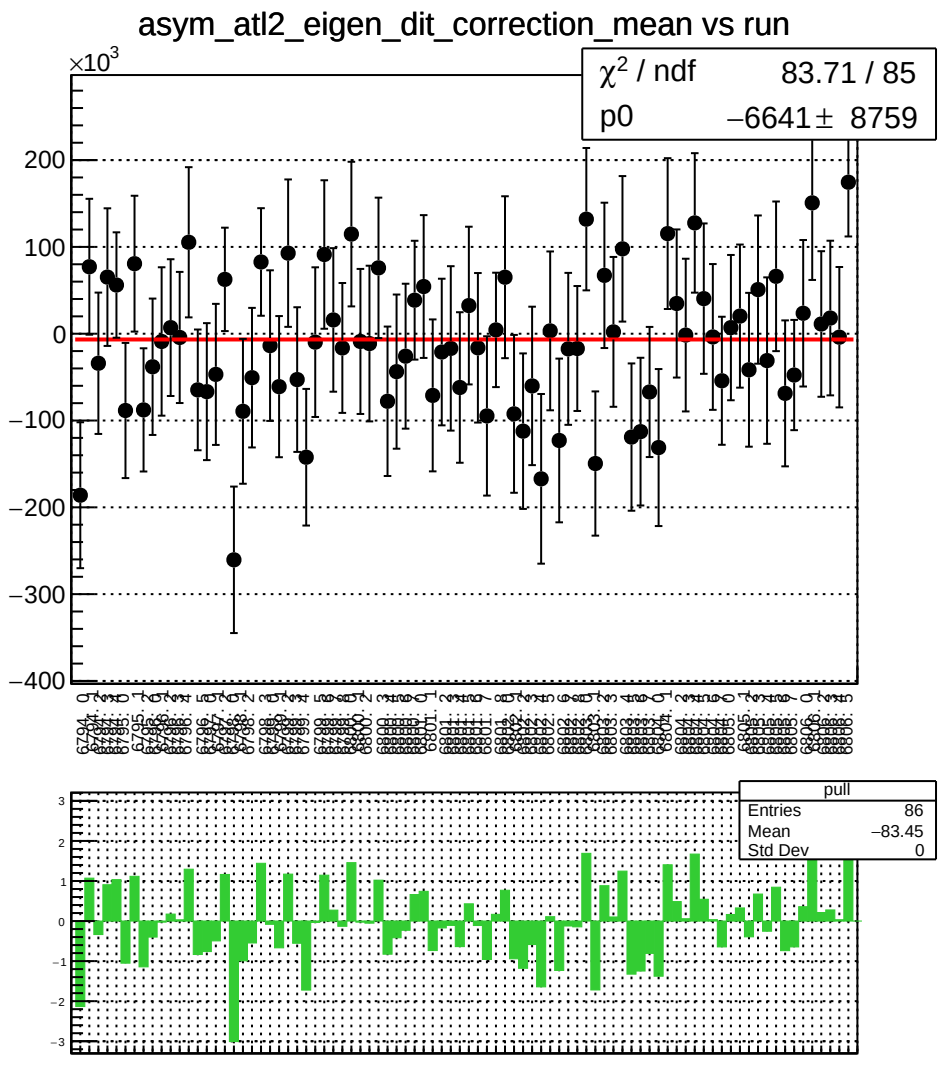

pull1D
Entries 86
Mean −0.0274
Std Dev 0.9862
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

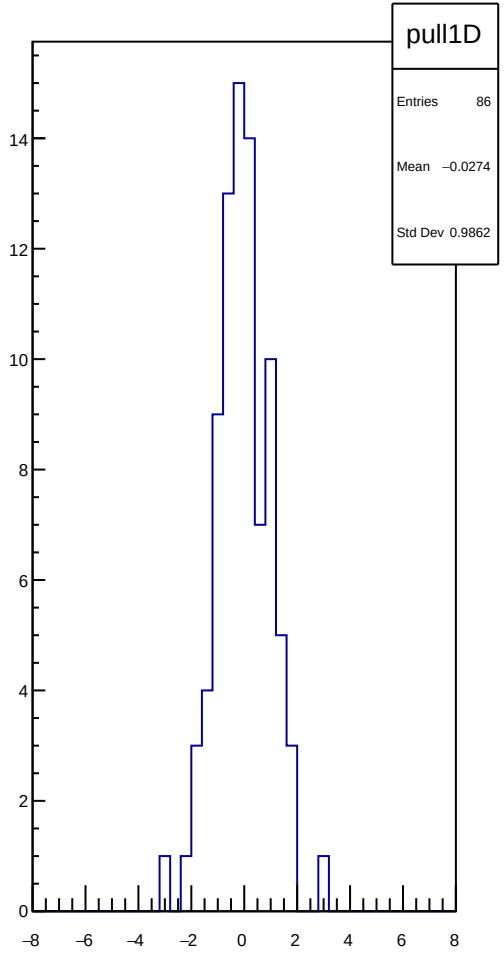

asym_atl2_dit_correction_rms vs run
χ² / ndf 4295 / 85
p0 8023 ± 6.194
9500
9000
8500
8000
7500
7000

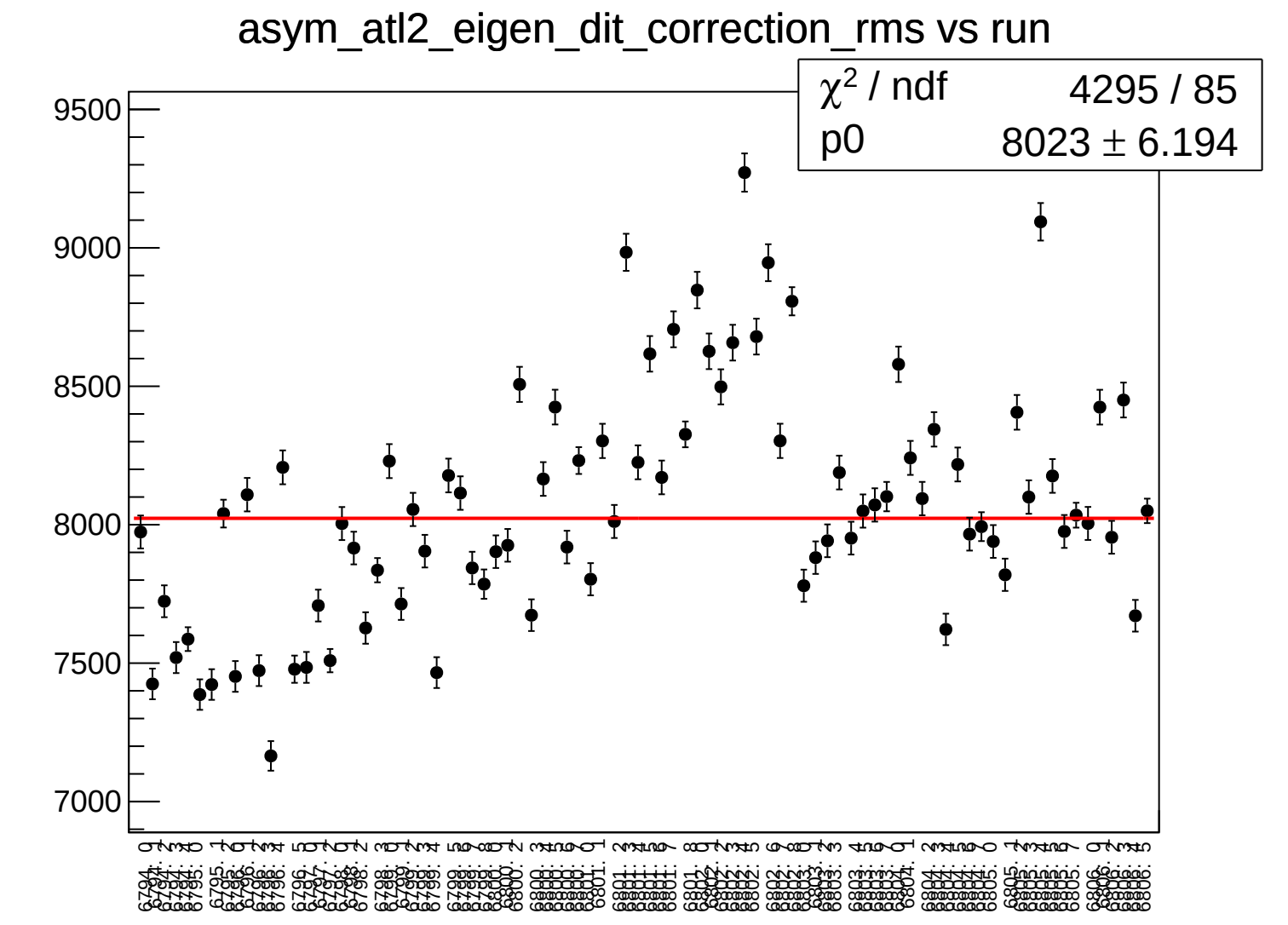

eigen_dit_asym_atl2_mean vs run
χ² / ndf 79.61 / 85
p0 832.6 ± 2813
×10³
pull
Entries 86
Mean 51.18
Std Dev 81.71

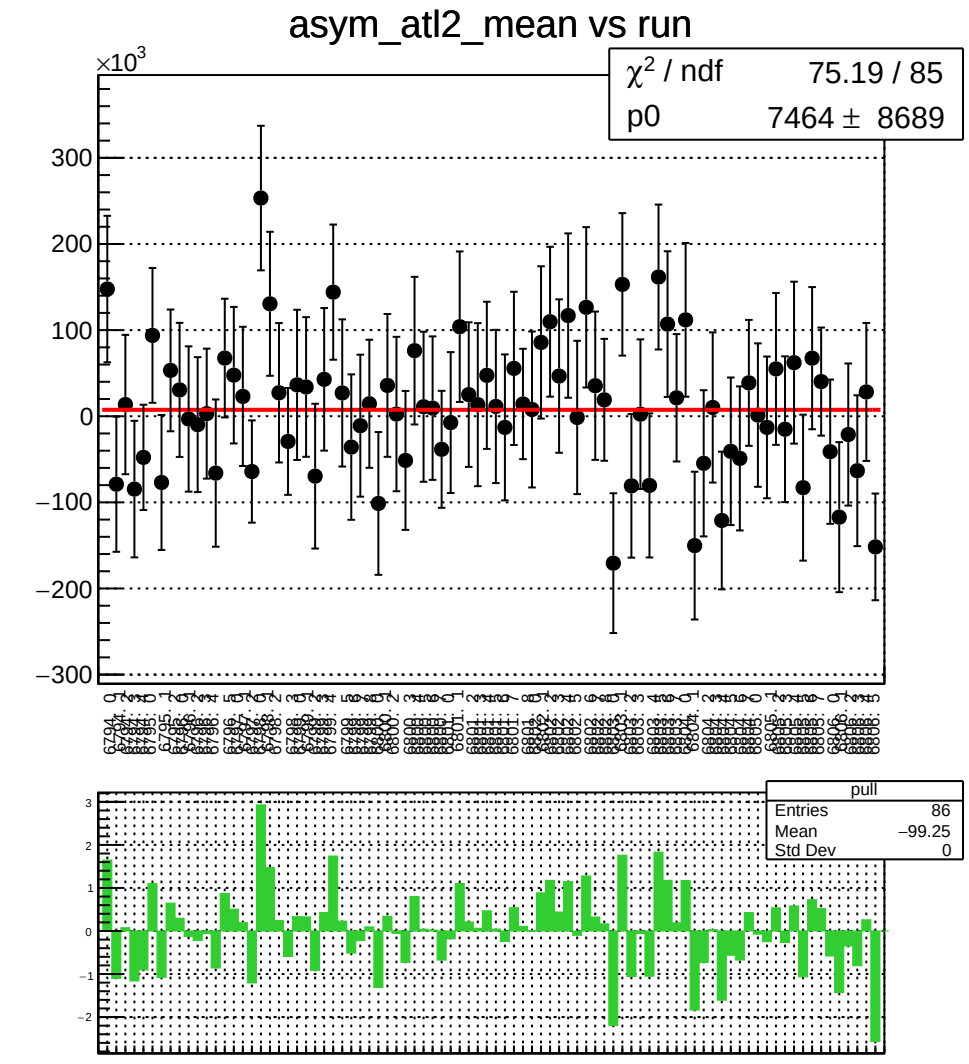

pull1D
Entries 86
Mean −0.009532
Std Dev 0.9621

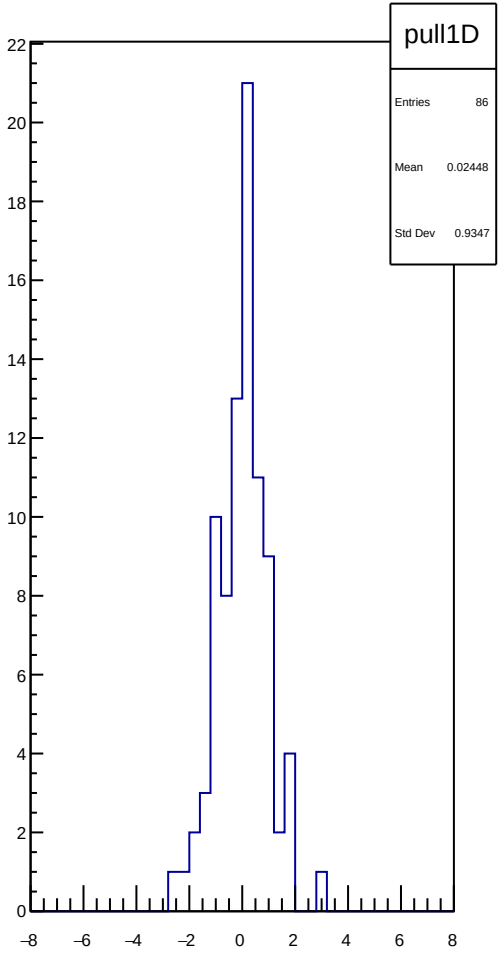

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 218.2 / 85
p0 2580 ± 1.989
2700
2650
2600
2550
2500

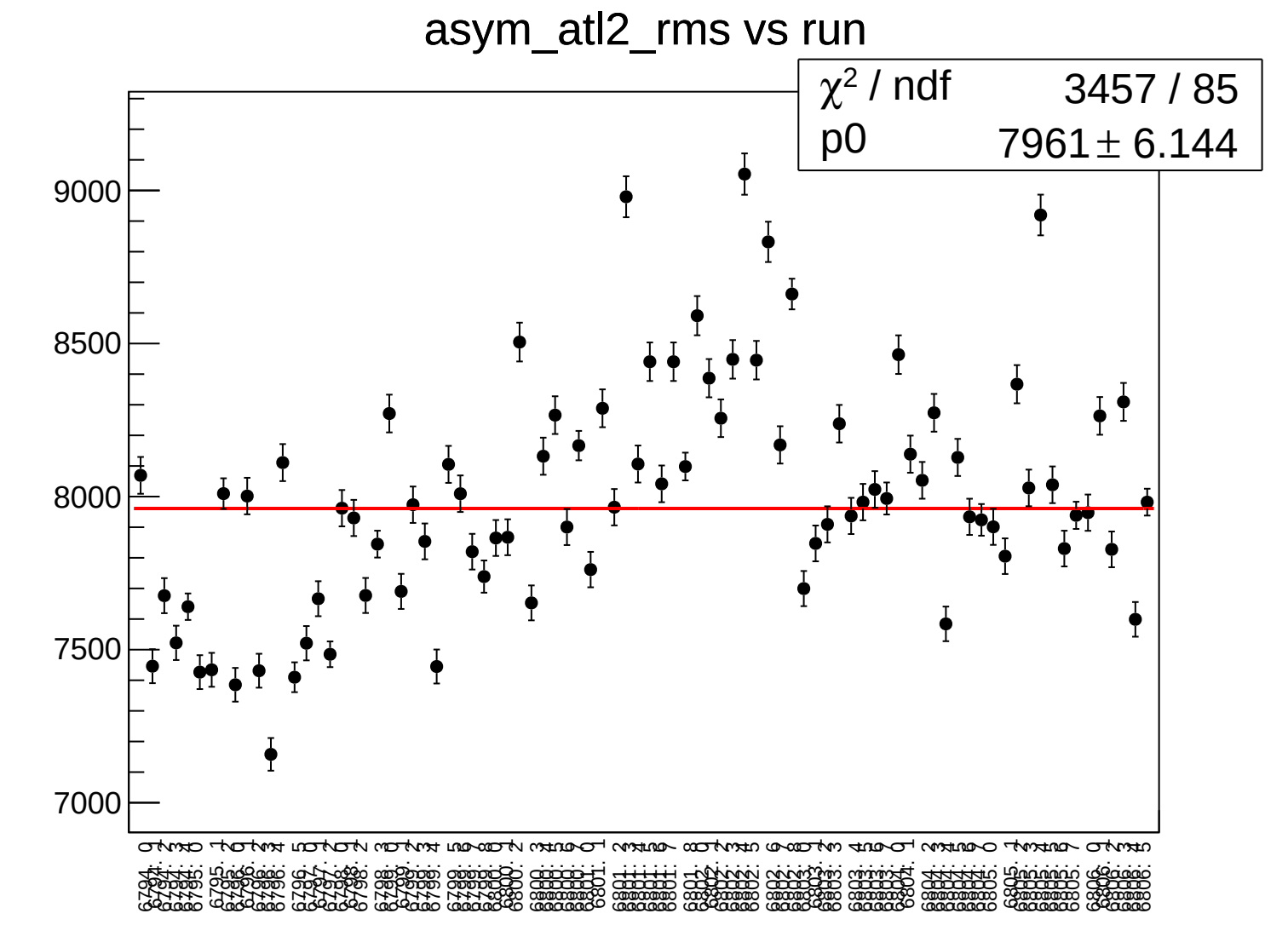

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.71 / 85
p0 −6641 ± 8759
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −83.45
Std Dev 0
3
2
1
0
−1
−2
−3

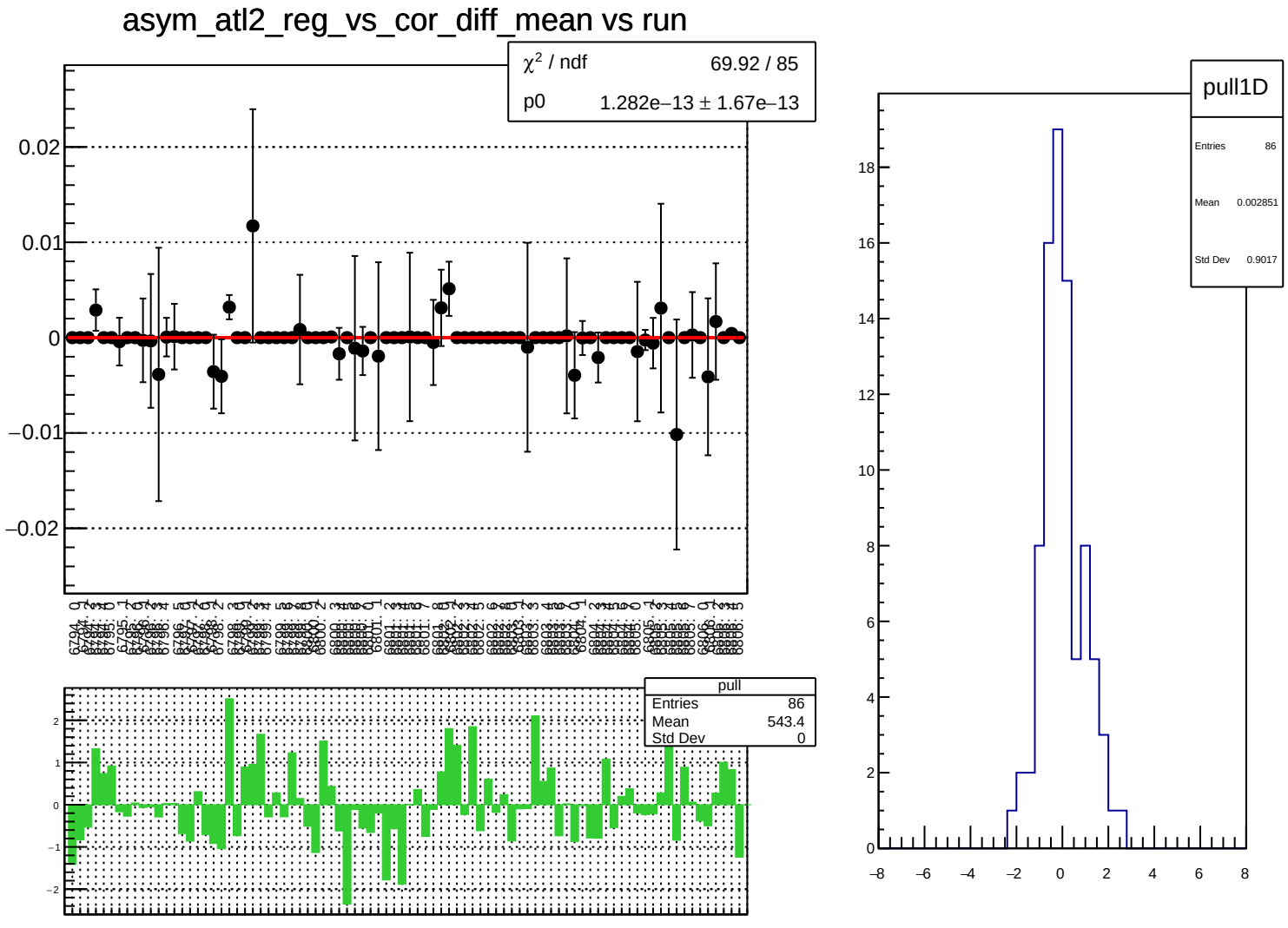

pull1D
Entries 86
Mean −0.0274
Std Dev 0.9862
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

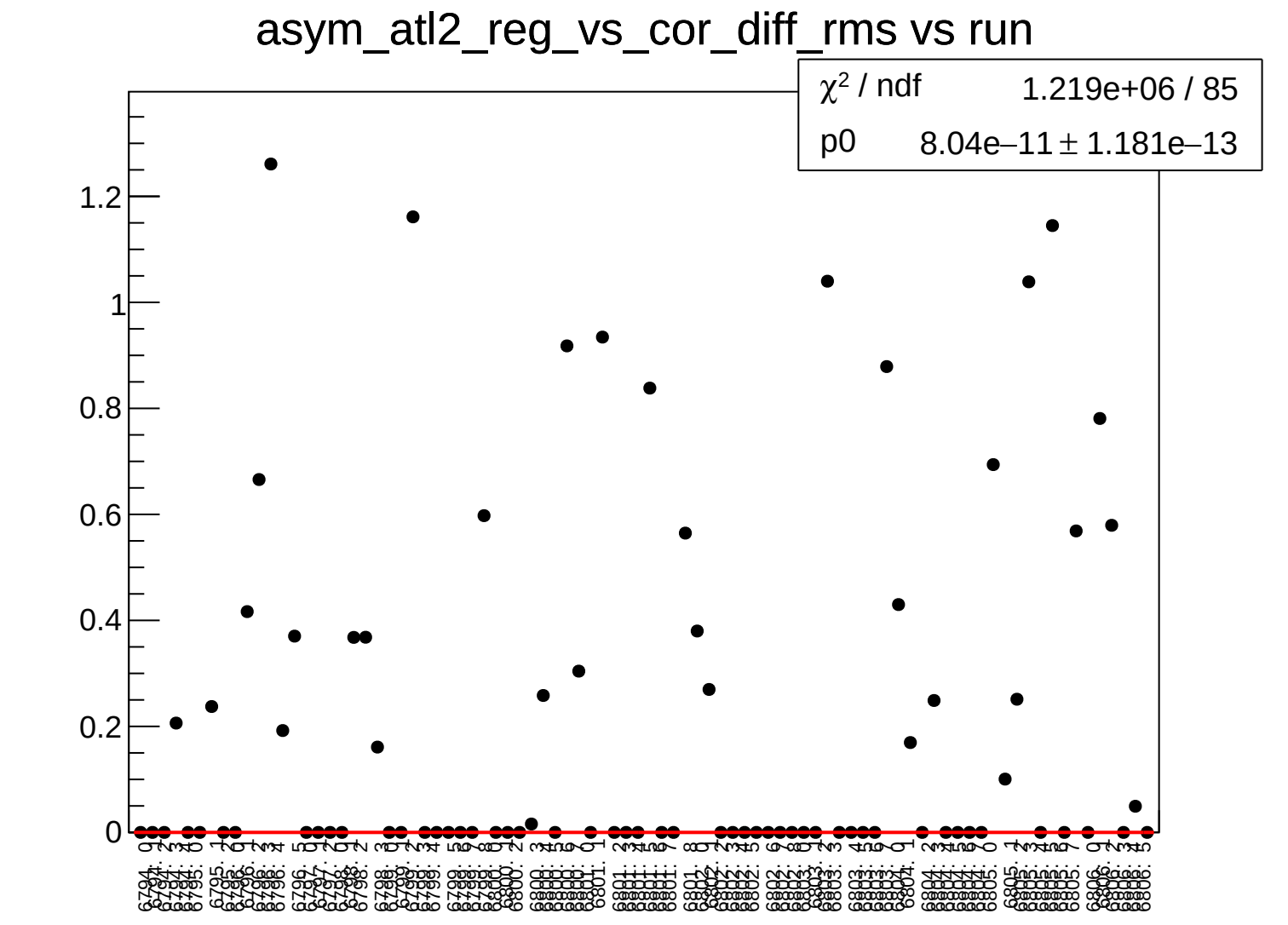

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 4295 / 85
p0 8023 ± 6.194
9500
9000
8500
8000
7500
7000

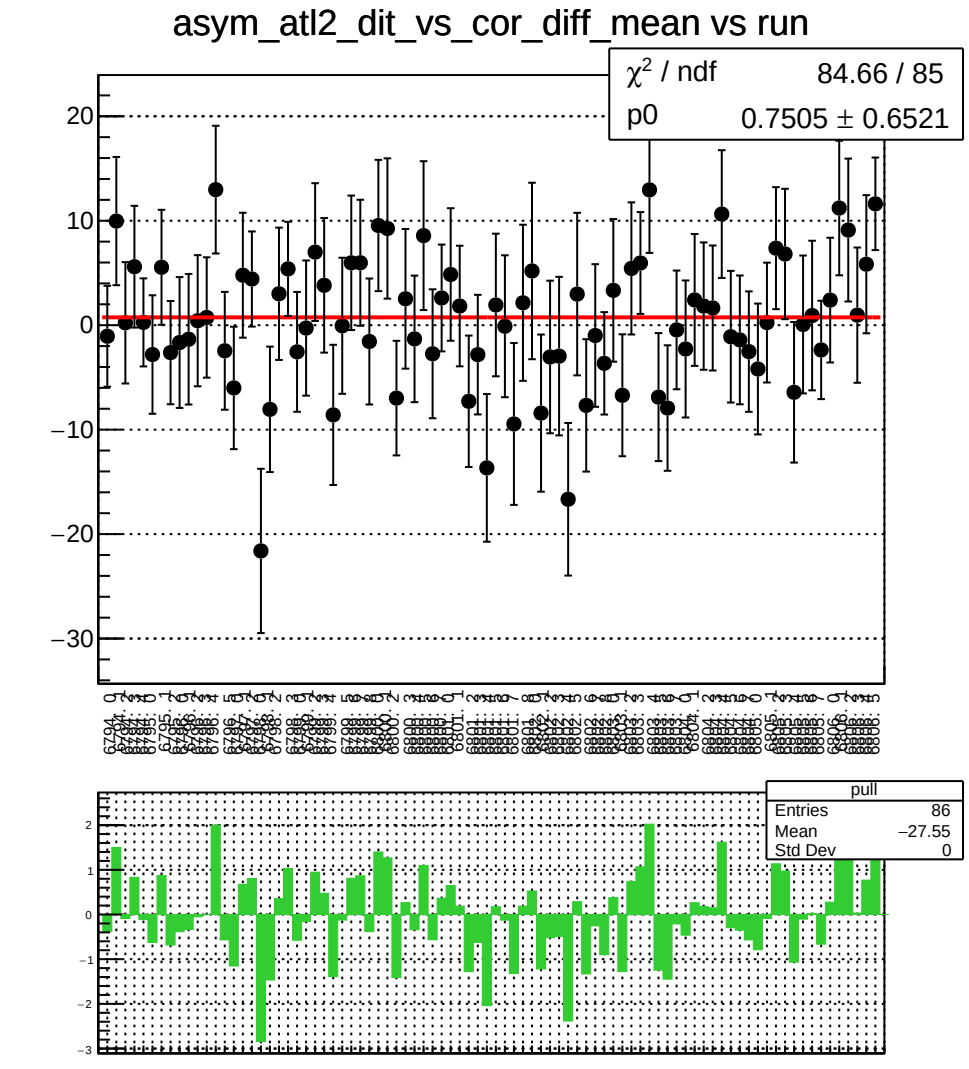

asym_atl2_mean vs run
χ² / ndf 75.19 / 85
p0 7464 ± 8689
×10³
pull
Entries 86
Mean −99.25
Std Dev 0

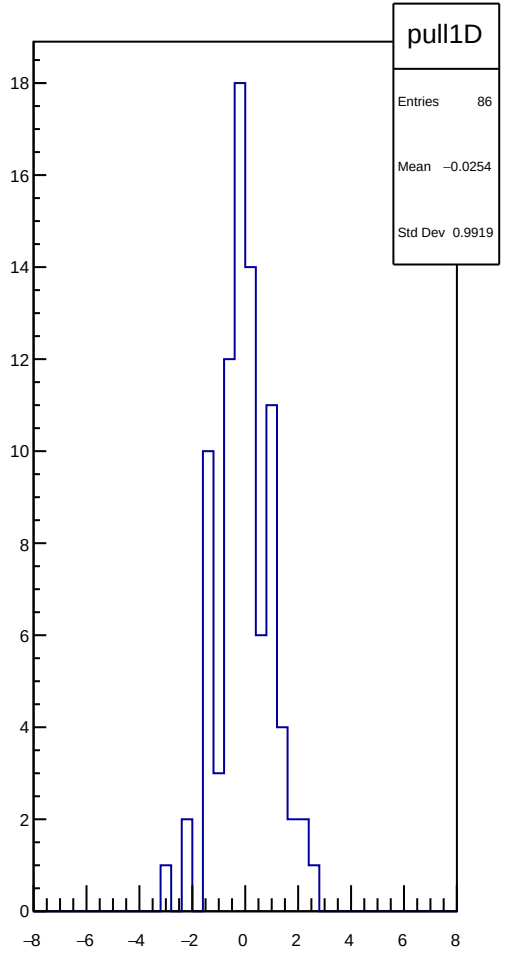

pull1D
Entries 86
Mean 0.02448
Std Dev 0.9347

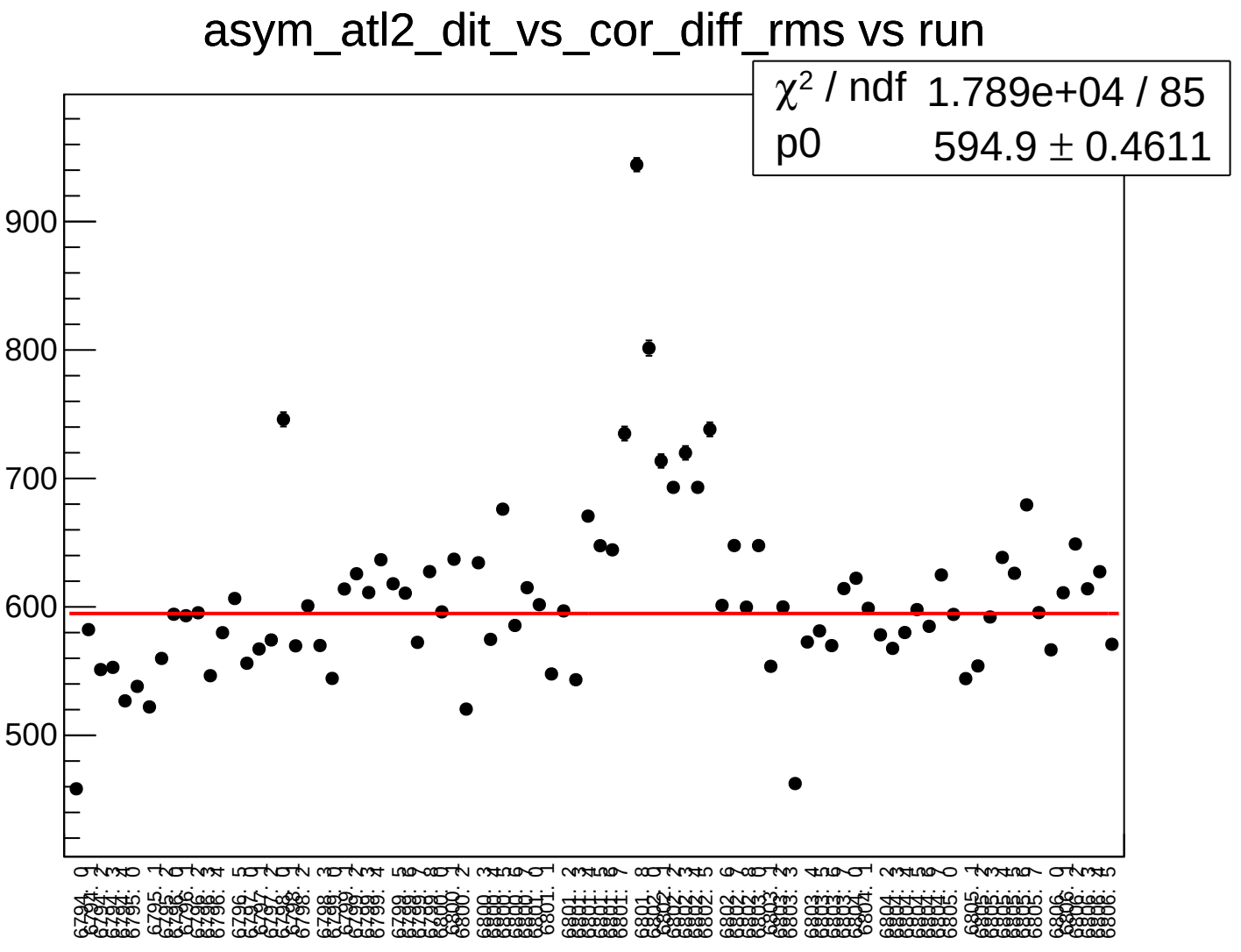

asym_atl2_rms vs run
χ^2 / ndf 3457 / 85
p0 7961 ± 6.144
9000
8500
8000
7500
7000

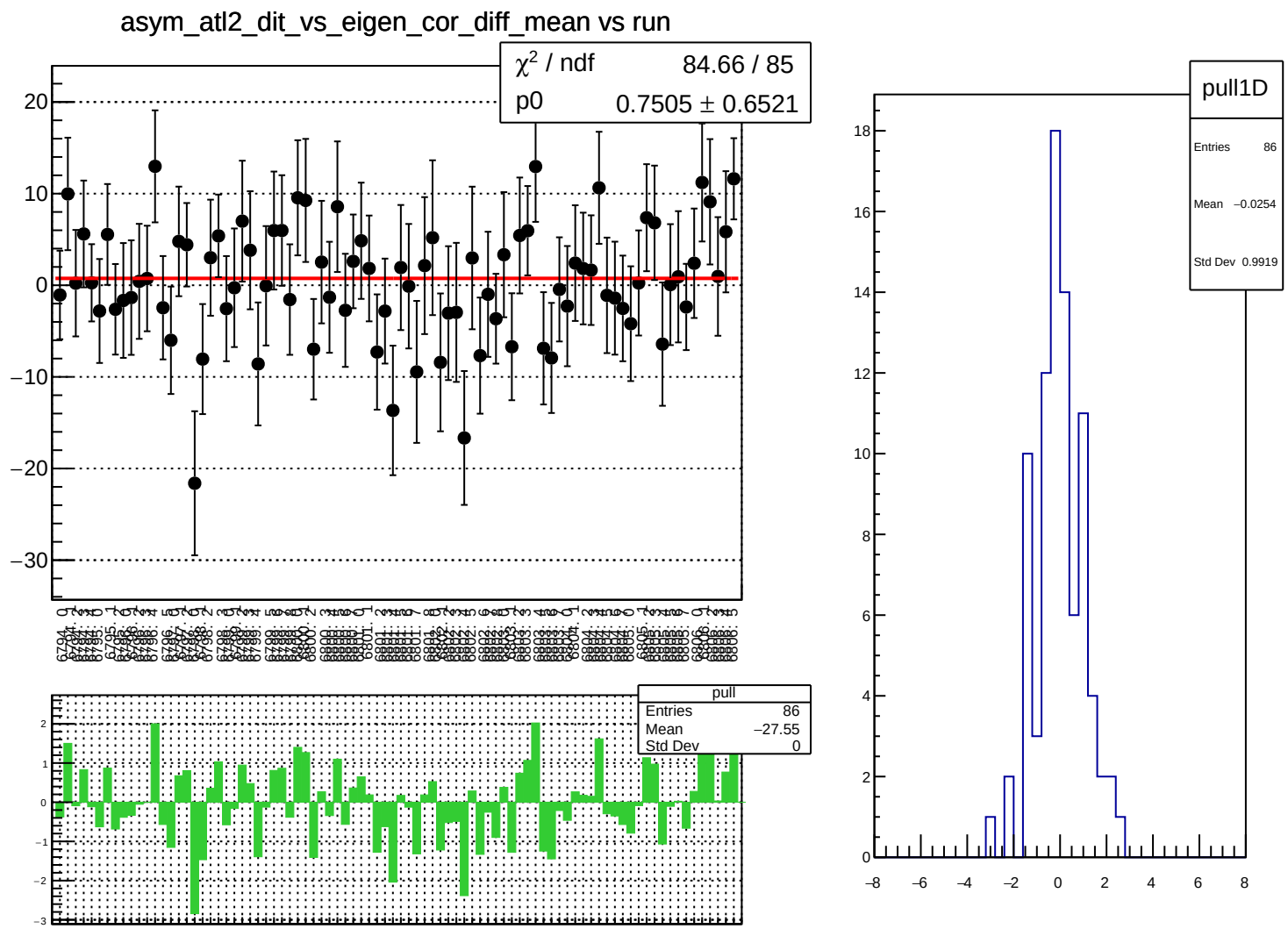

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 69.92 / 85
p0 1.282e−13 ± 1.67e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 543.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.002851
Std Dev 0.9017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

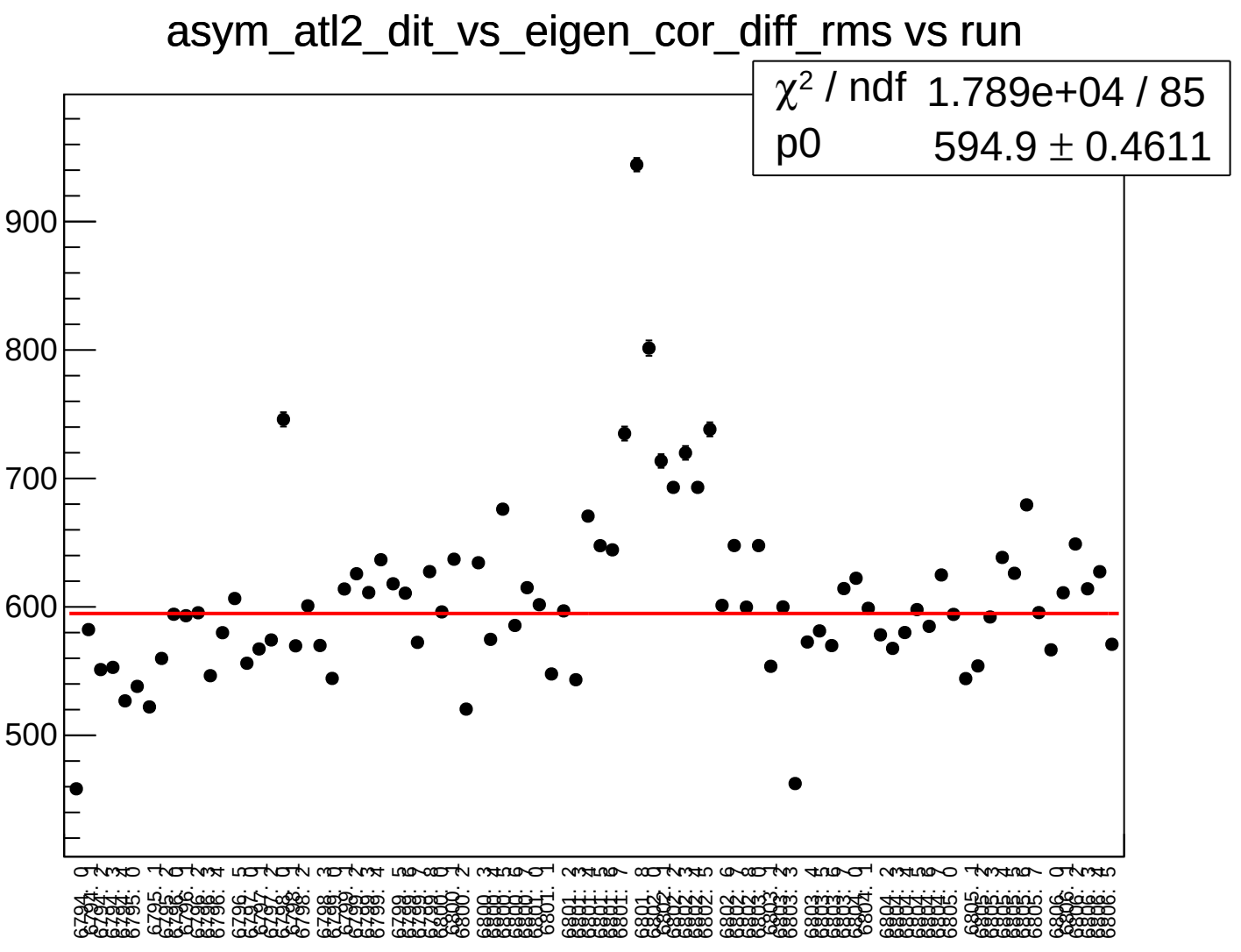

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.219e+06 / 85
p0 8.04e−11 ± 1.181e−13
1.2
1
0.8
0.6
0.4
0.2
0

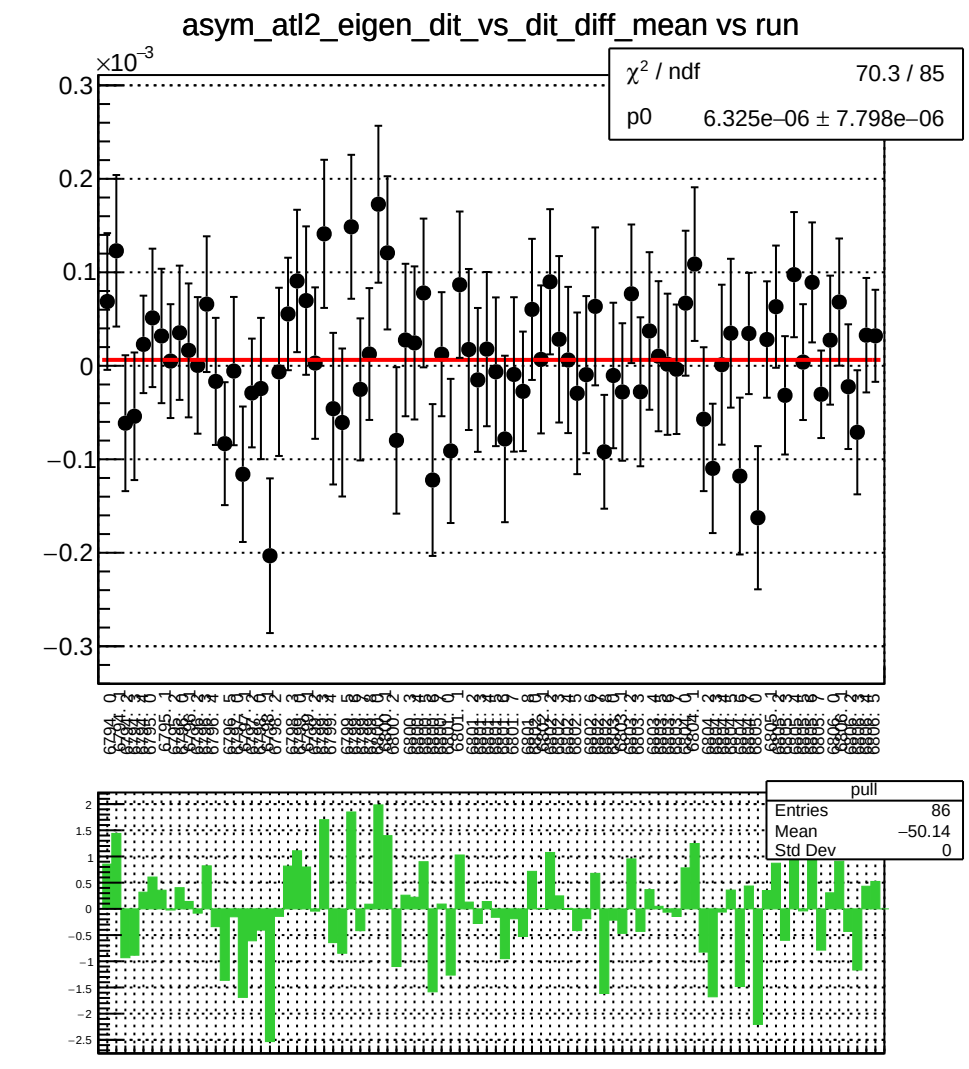

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 84.66 / 85
p0 0.7505 ± 0.6521
pull
Entries 86
Mean −27.55
Std Dev 0

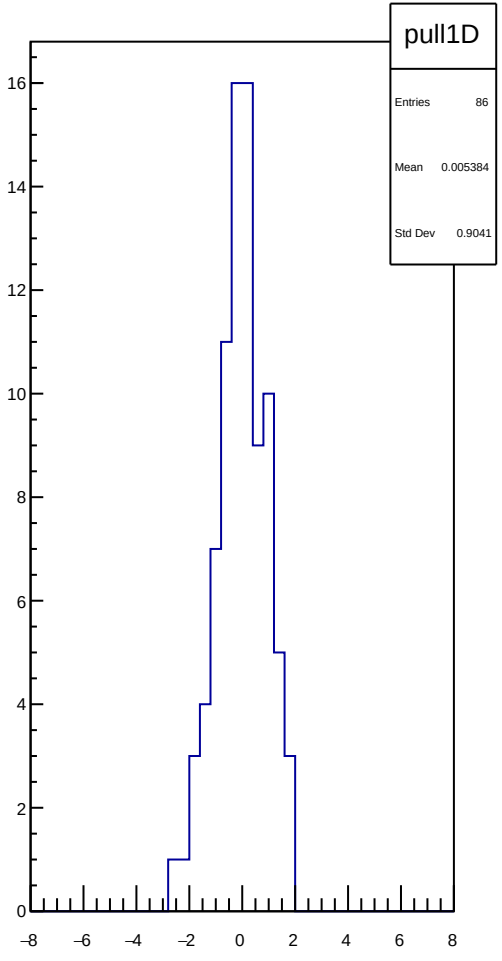

pull1D
Entries 86
Mean −0.0254
Std Dev 0.9919

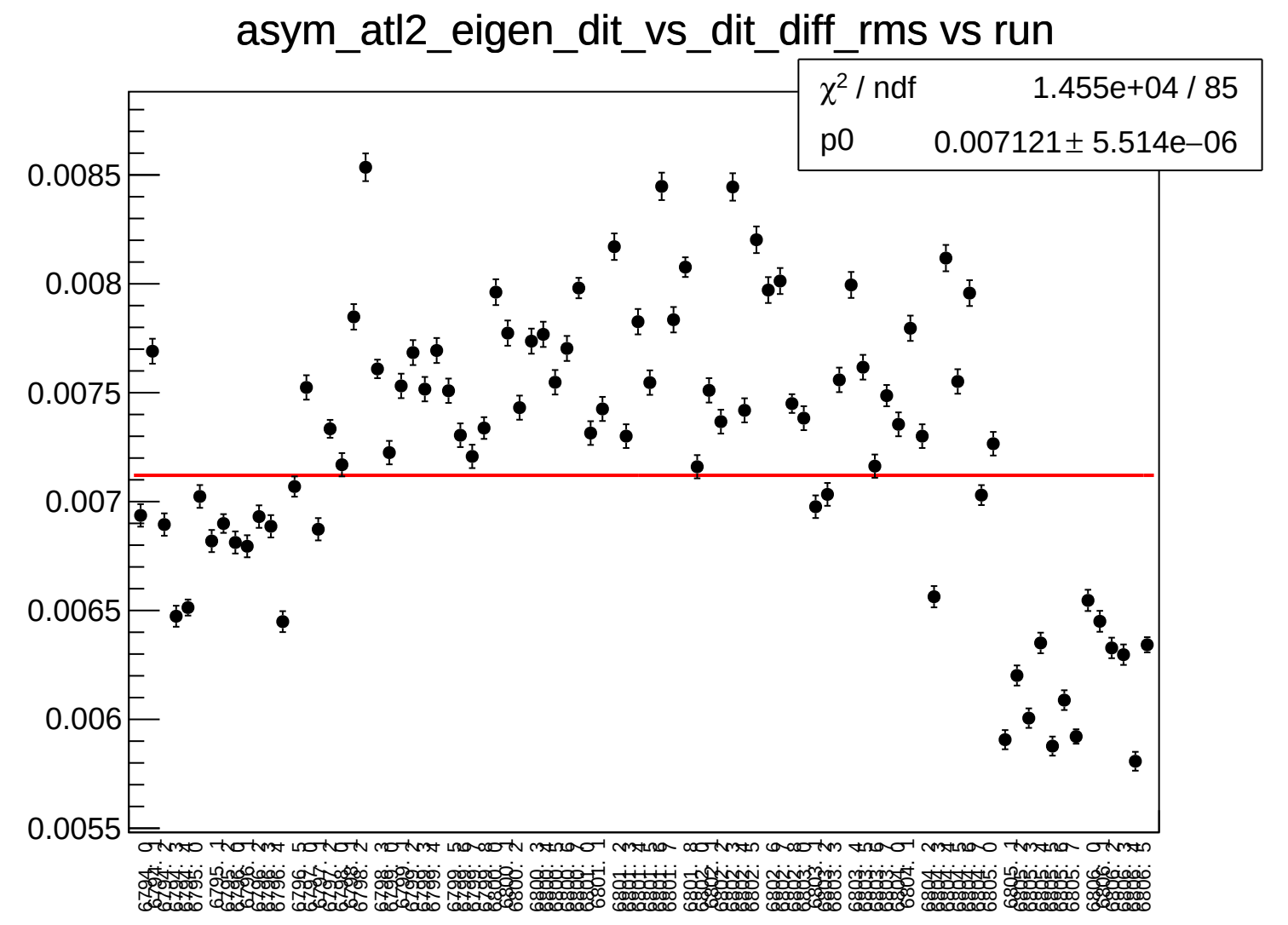

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.789e+04 / 85
p0 594.9 ± 0.4611
900
800
700
600
500

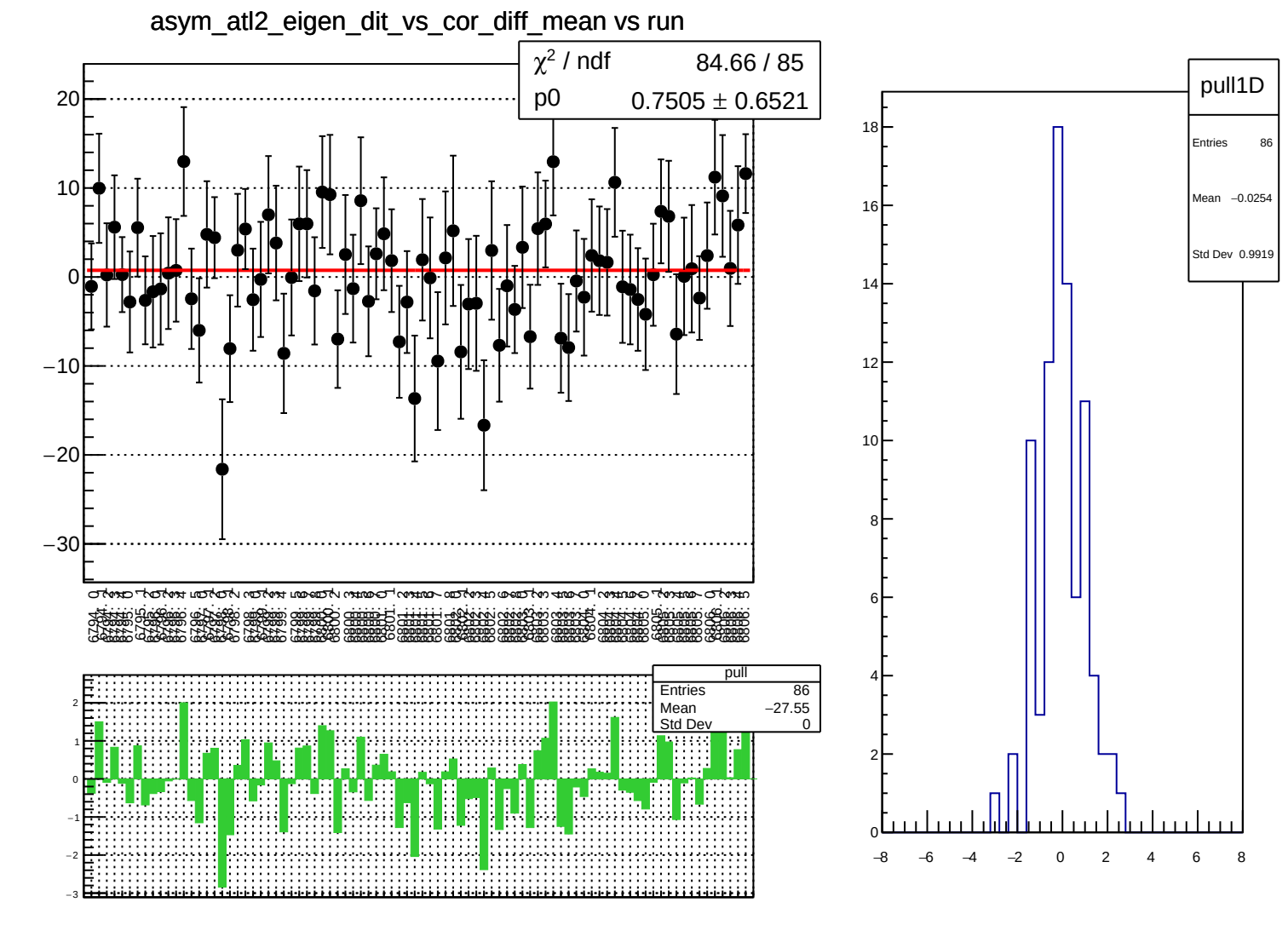

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.66 / 85
p0 0.7505 ± 0.6521
pull
Entries 86
Mean −27.55
Std Dev 0
pull1D
Entries 86
Mean −0.0254
Std Dev 0.9919

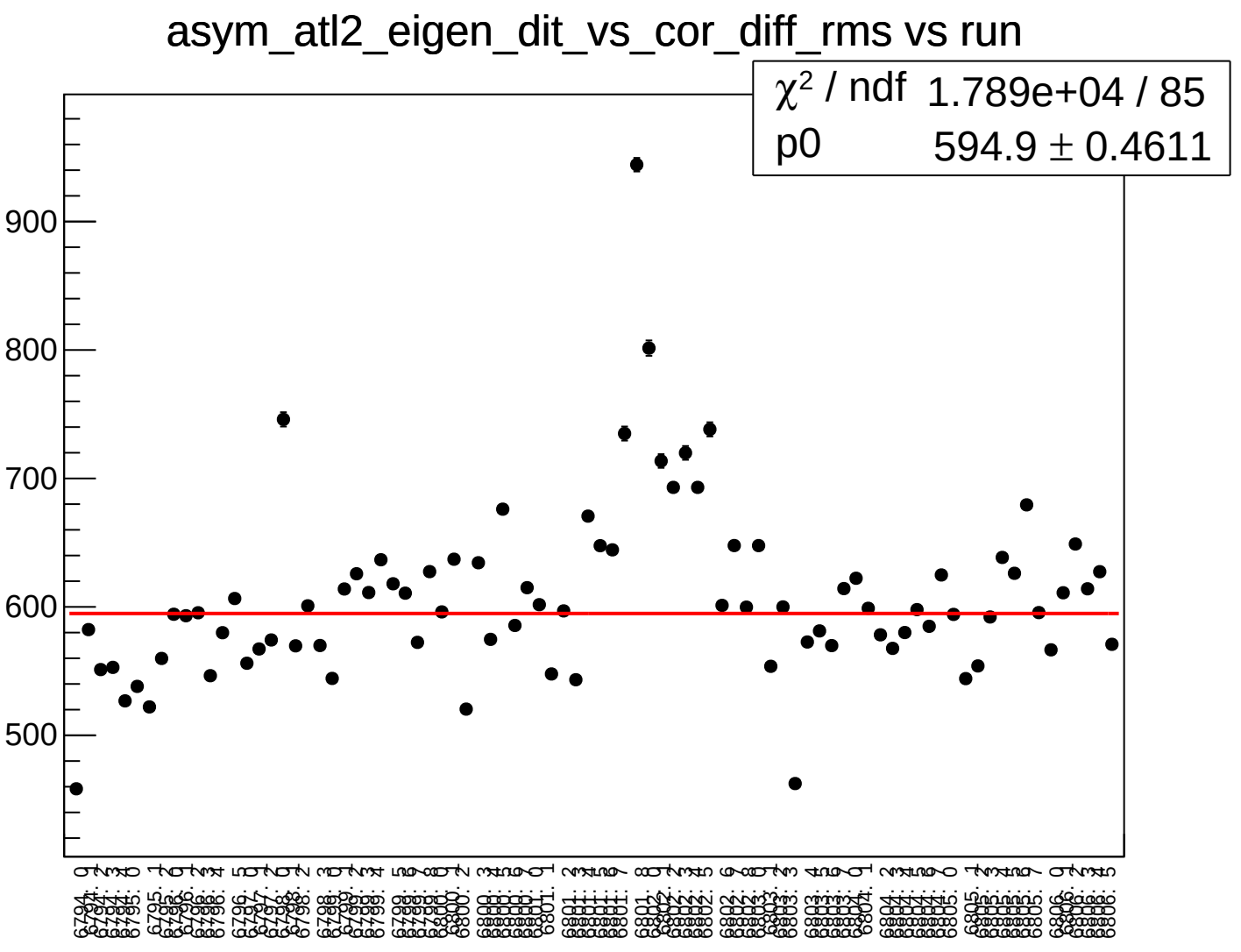

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.789e+04 / 85
p0 594.9 ± 0.4611
900
800
700
600
500

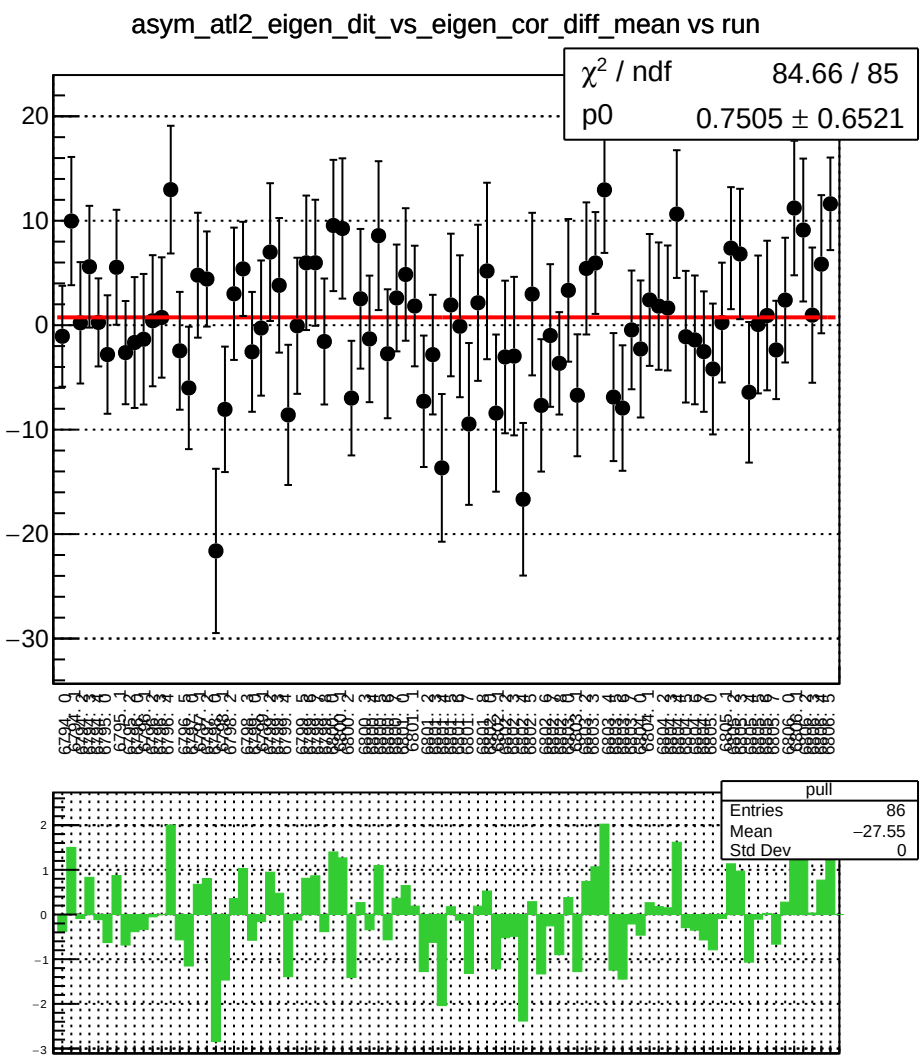

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.3 / 85
p0 6.325e−06 ± 7.798e−06
pull
Entries 86
Mean −50.14
Std Dev 0

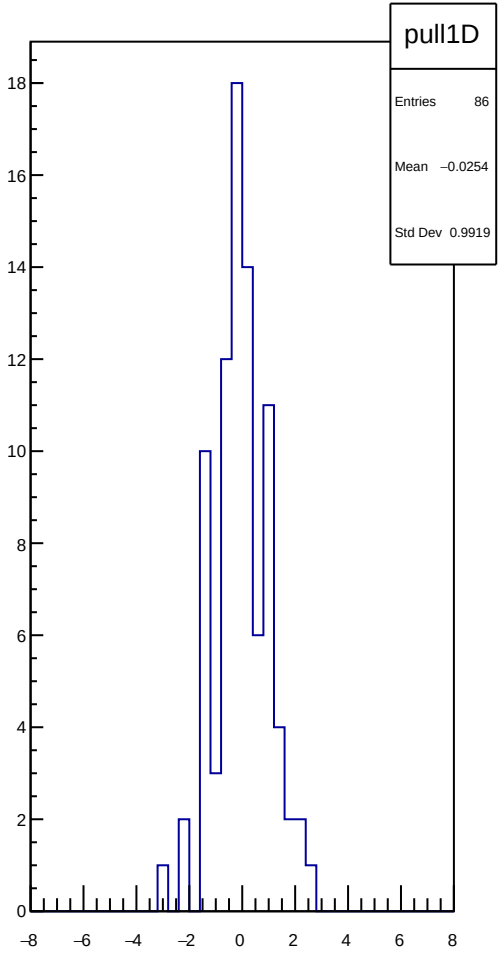

pull1D
Entries 86
Mean 0.005384
Std Dev 0.9041

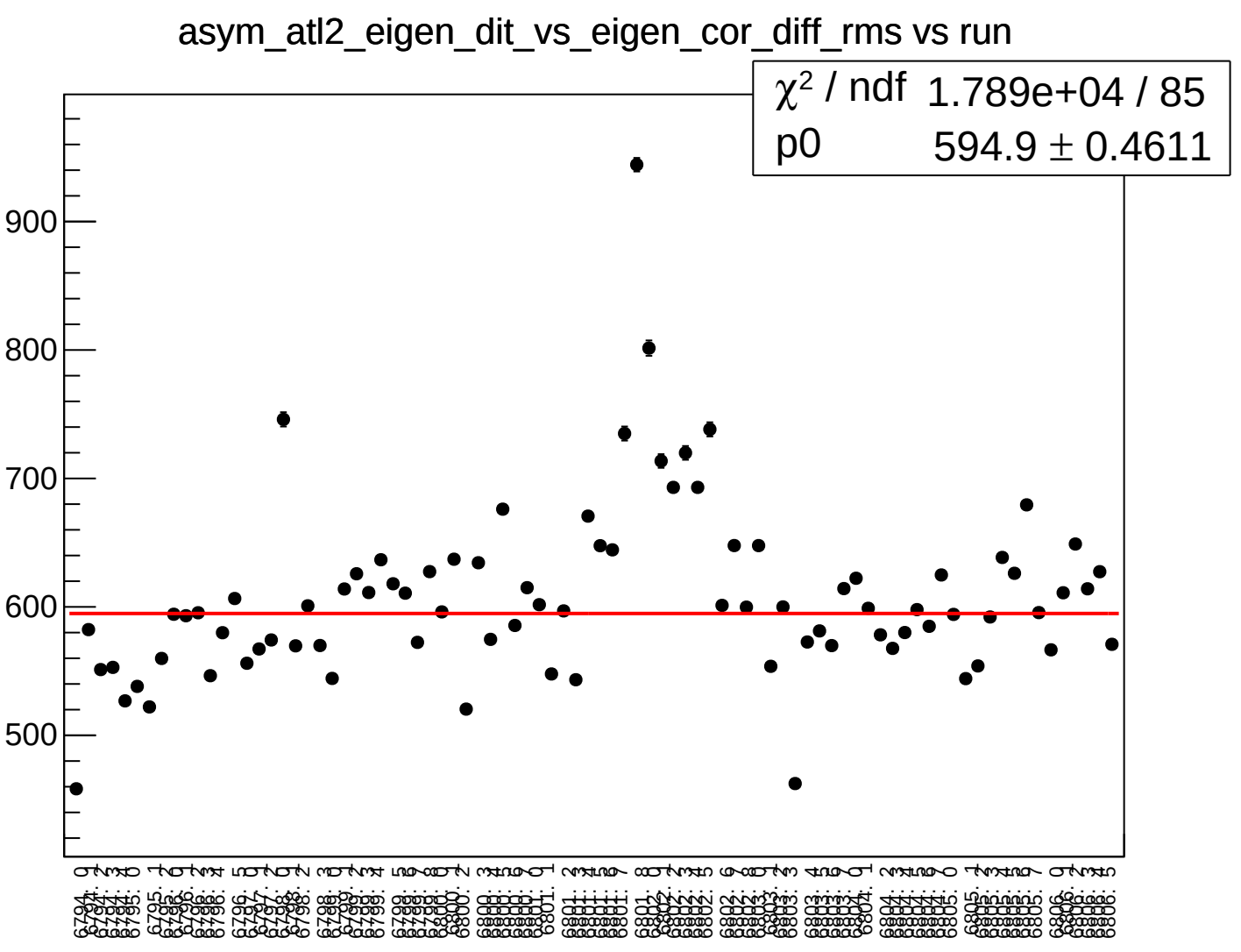

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.455e+04 / 85
p0 0.007121 ± 5.514e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

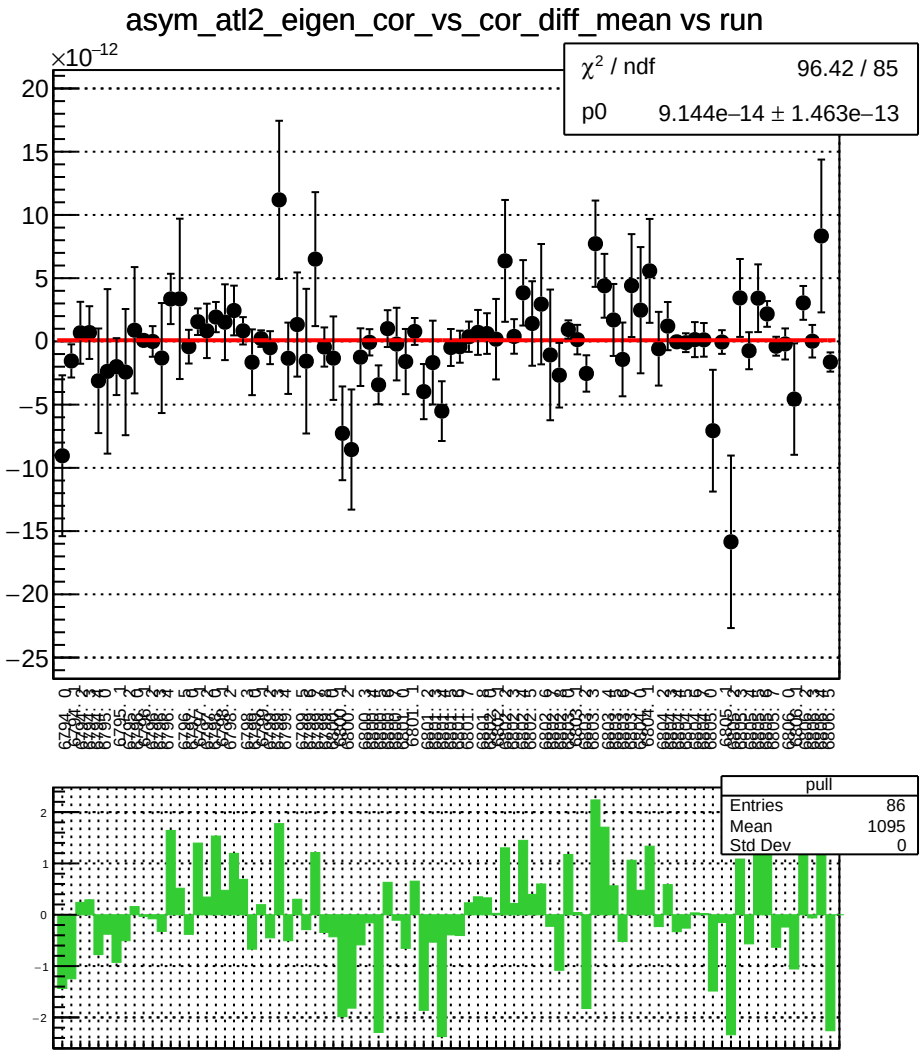

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.66 / 85
p0 0.7505 ± 0.6521
pull
Entries 86
Mean −27.55
Std Dev 0
pull1D
Entries 86
Mean −0.0254
Std Dev 0.9919

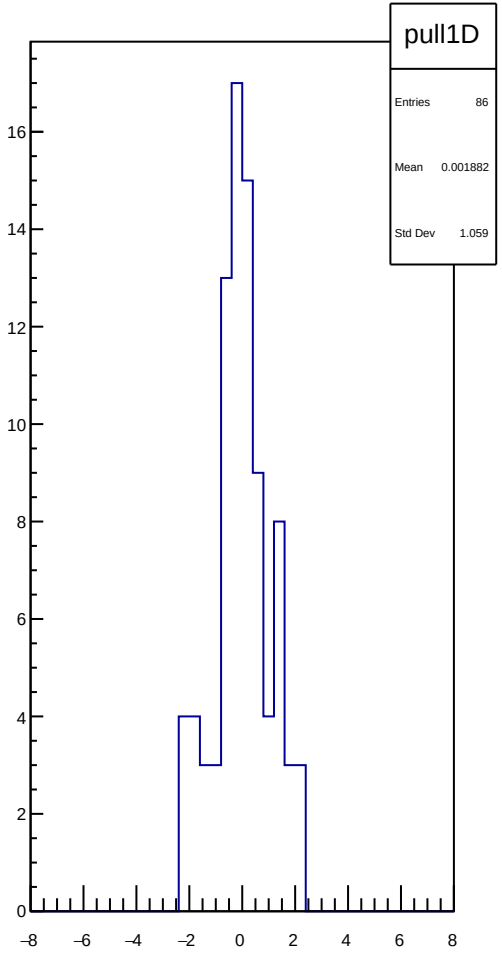

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.789e+04 / 85
p0 594.9 ± 0.4611
900
800
700
600
500

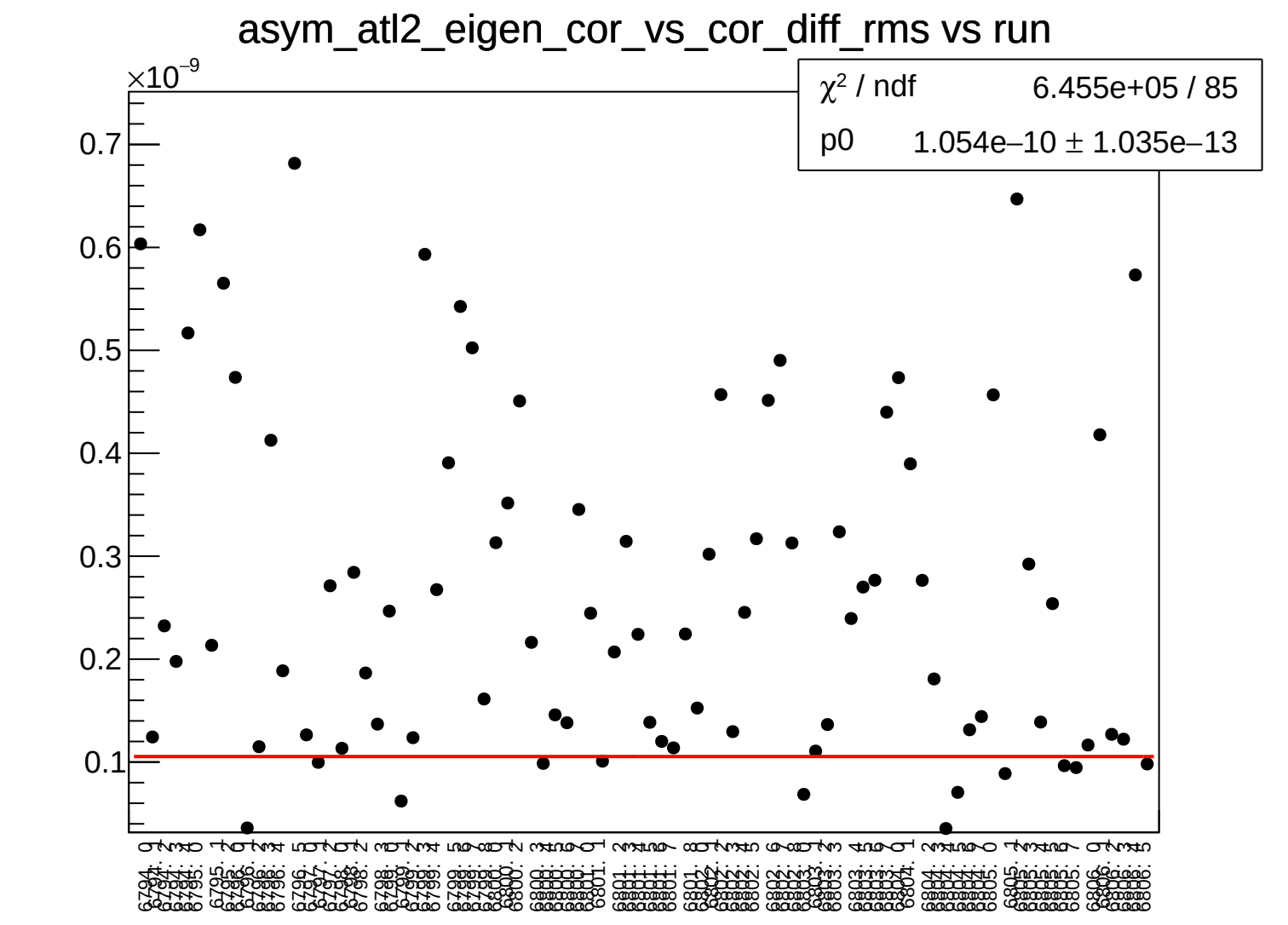

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.66 / 85
p0 0.7505 ± 0.6521
pull
Entries 86
Mean −27.55
Std Dev 0

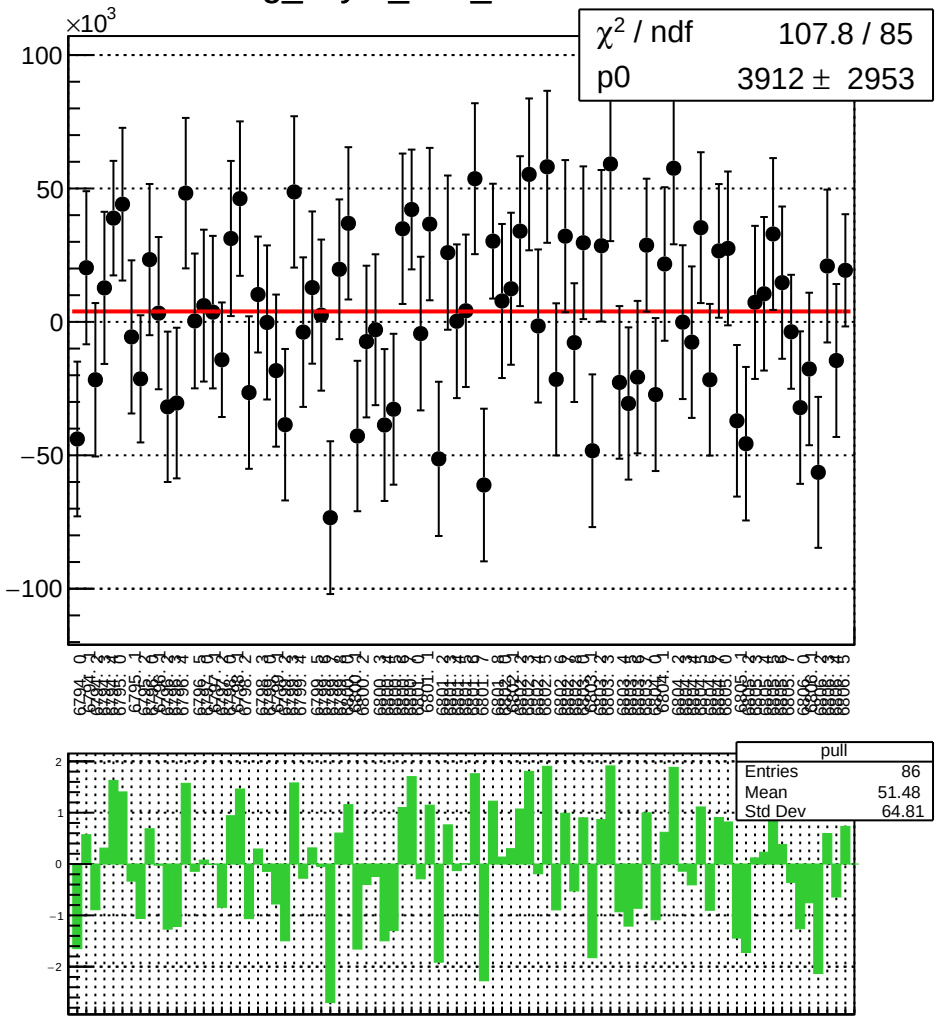

pull1D
Entries 86
Mean −0.0254
Std Dev 0.9919

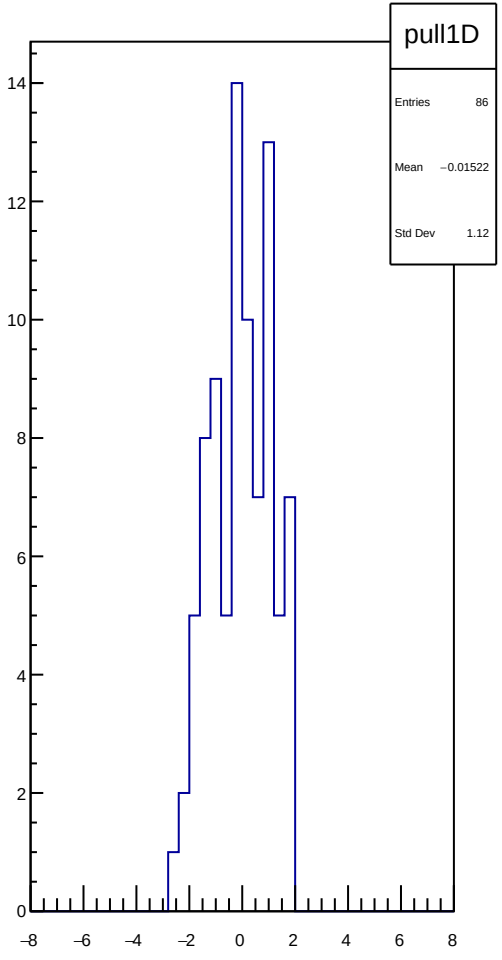

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.789e+04 / 85
p0 594.9 ± 0.4611
900
800
700
600
500

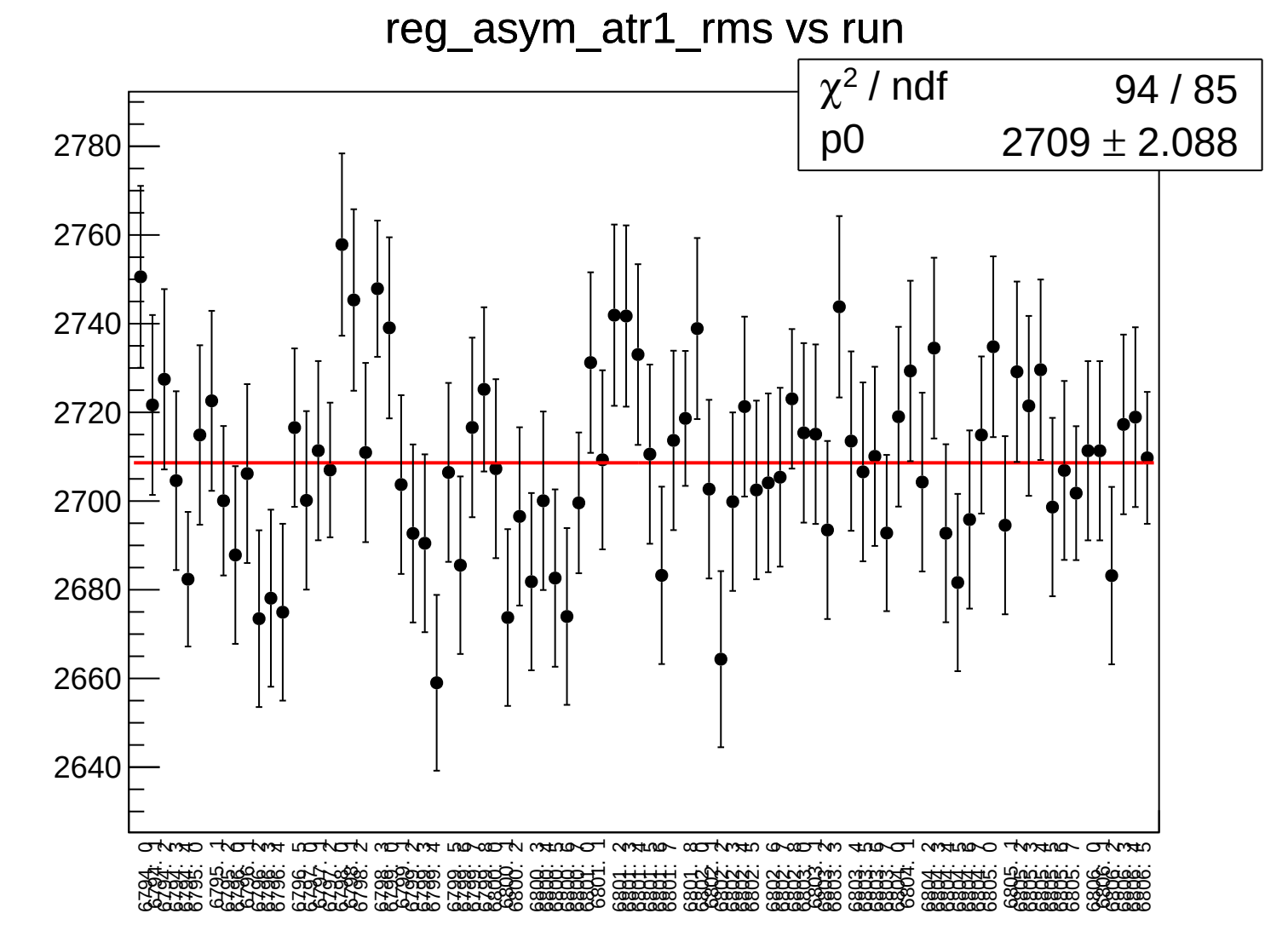

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.42 / 85
p0 9.144e−14 ± 1.463e−13
pull
Entries 86
Mean 1095
Std Dev 0

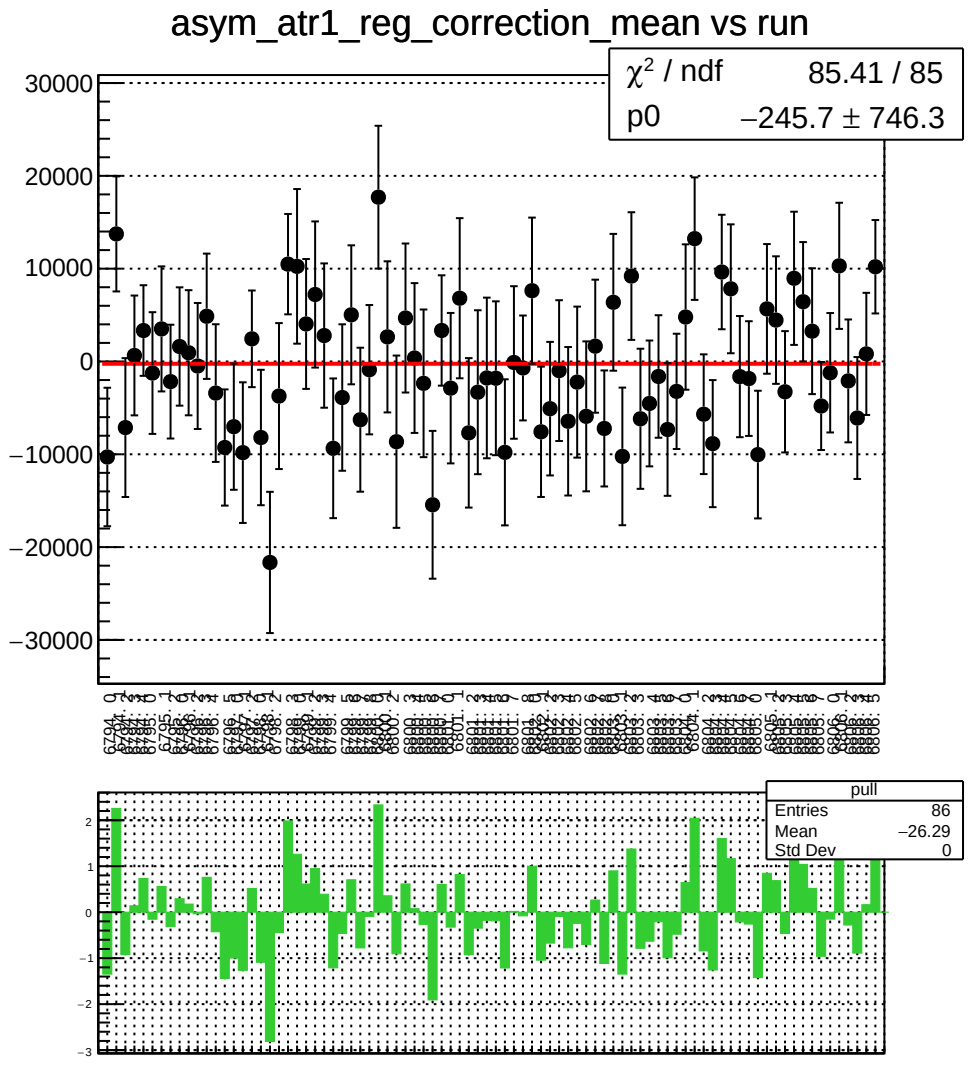

pull1D
Entries 86
Mean 0.001882
Std Dev 1.059

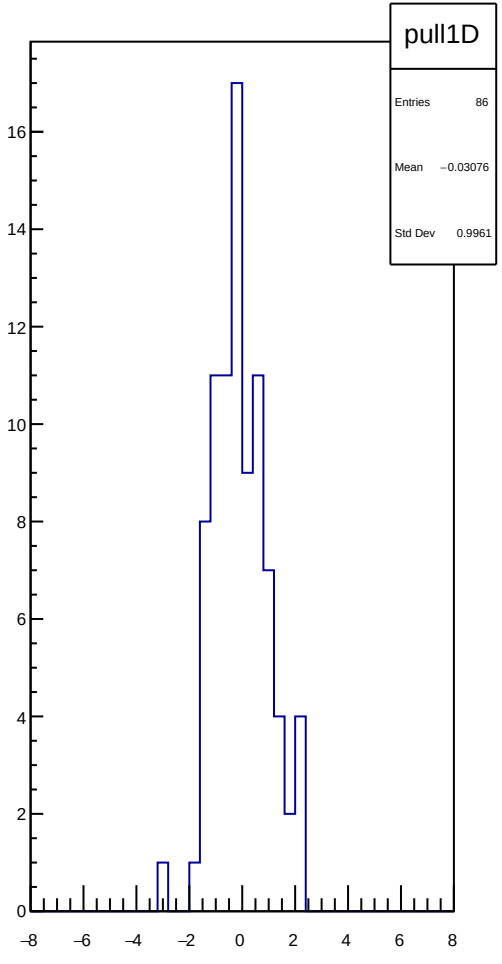

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.455e+05 / 85
p0 1.054e−10 ± 1.035e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

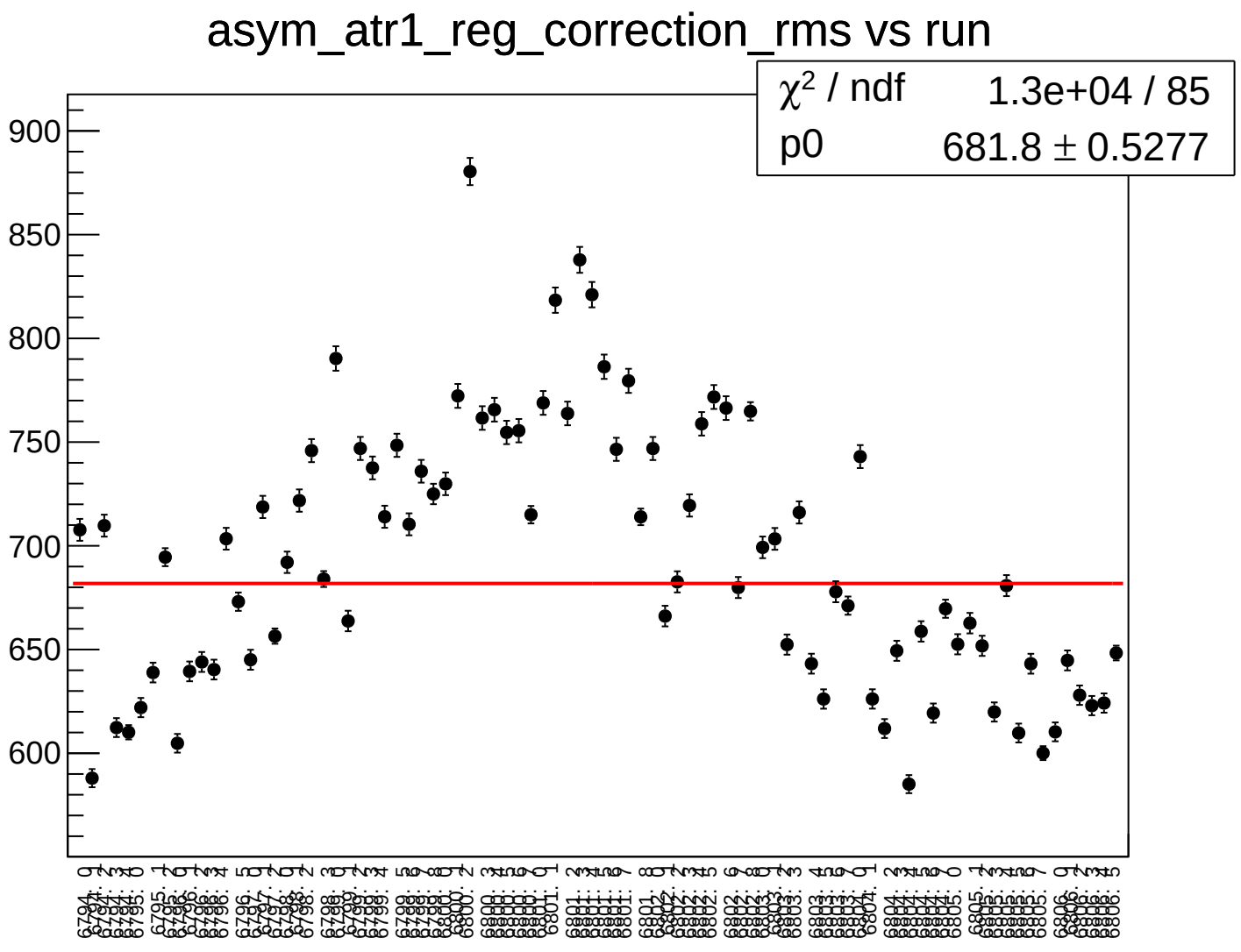

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 107.8 / 85
p0 3912 ± 2953
pull
Entries 86
Mean 51.48
Std Dev 64.81

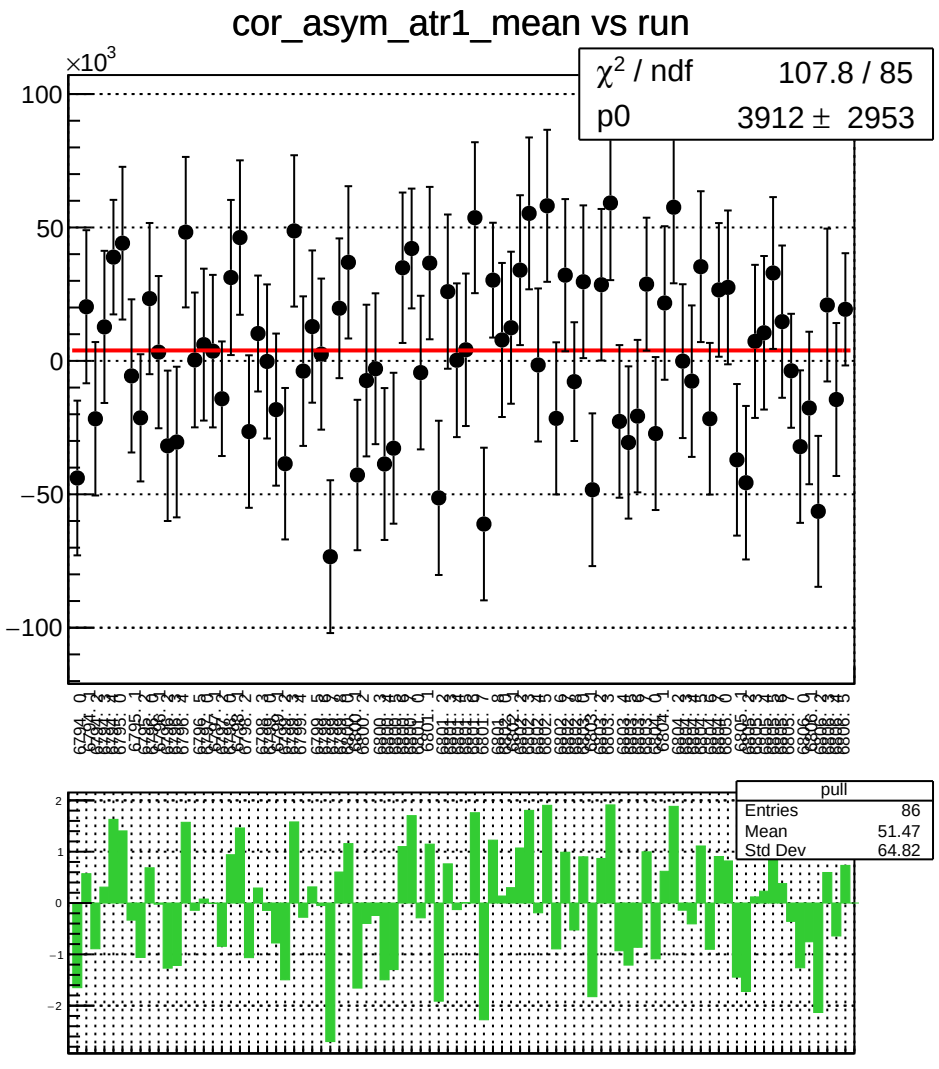

pull1D
Entries 86
Mean −0.01522
Std Dev 1.12

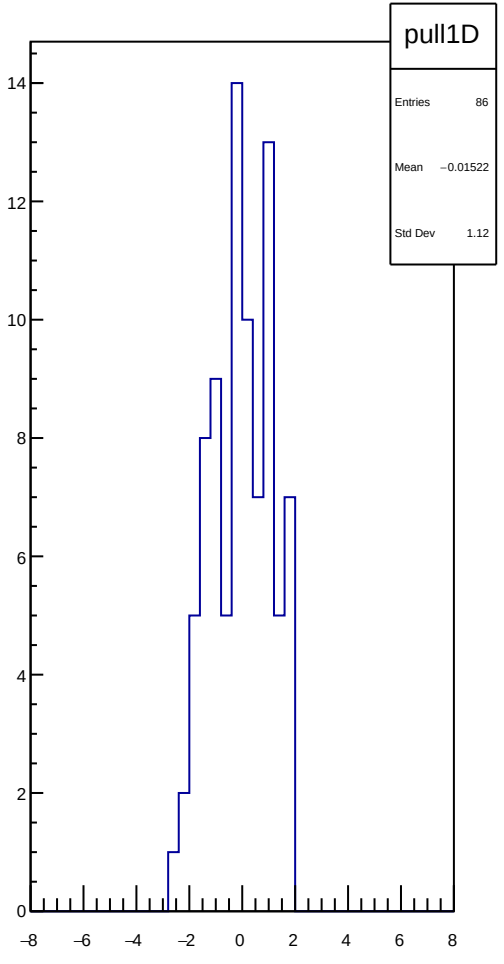

reg_asym_atr1_rms vs run
χ^2 / ndf 94 / 85
p0 2709 ± 2.088
2780
2760
2740
2720
2700
2680
2660
2640

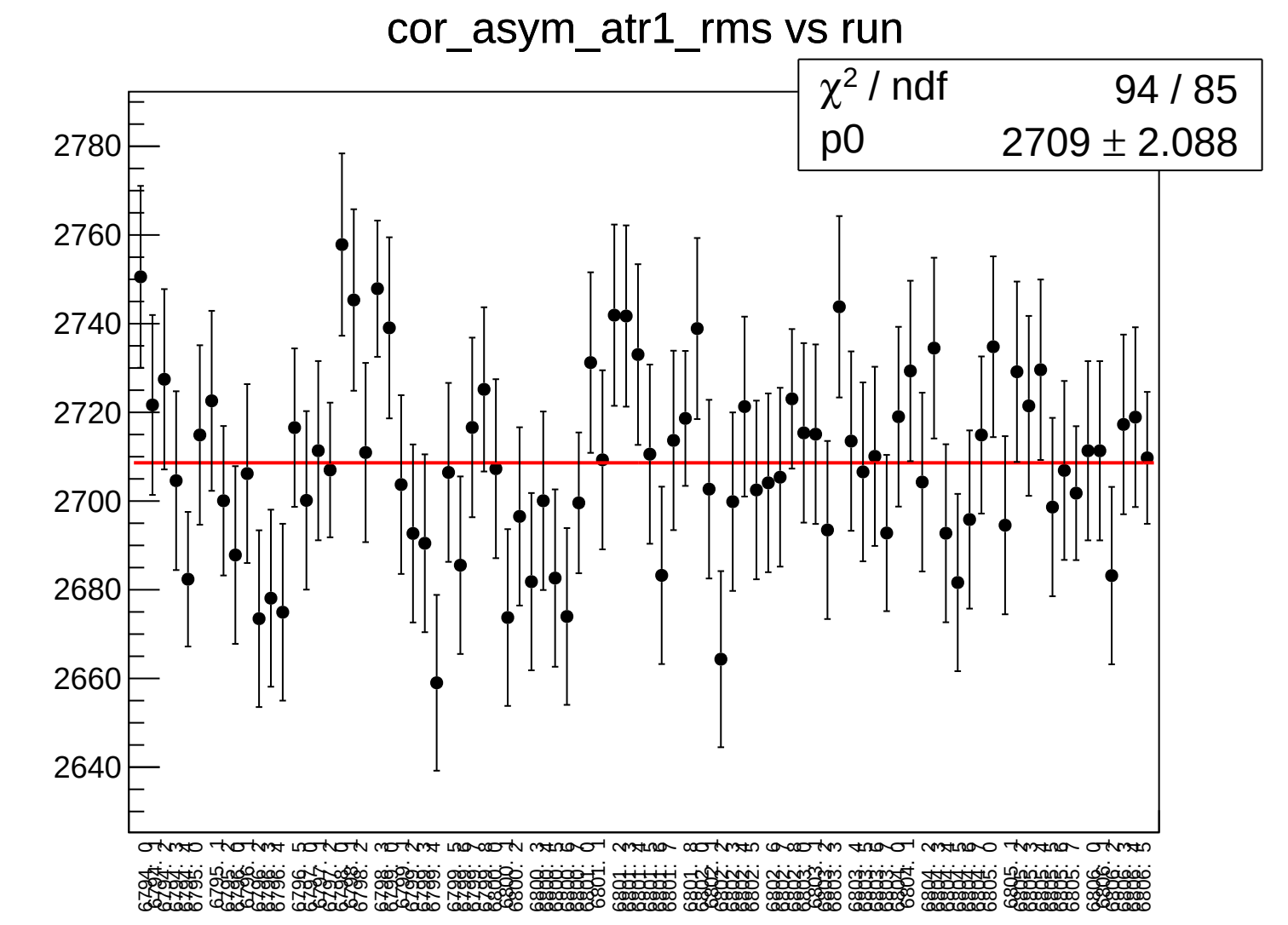

asym_atr1_reg_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −245.7 ± 746.3
pull
Entries 86
Mean −26.29
Std Dev 0

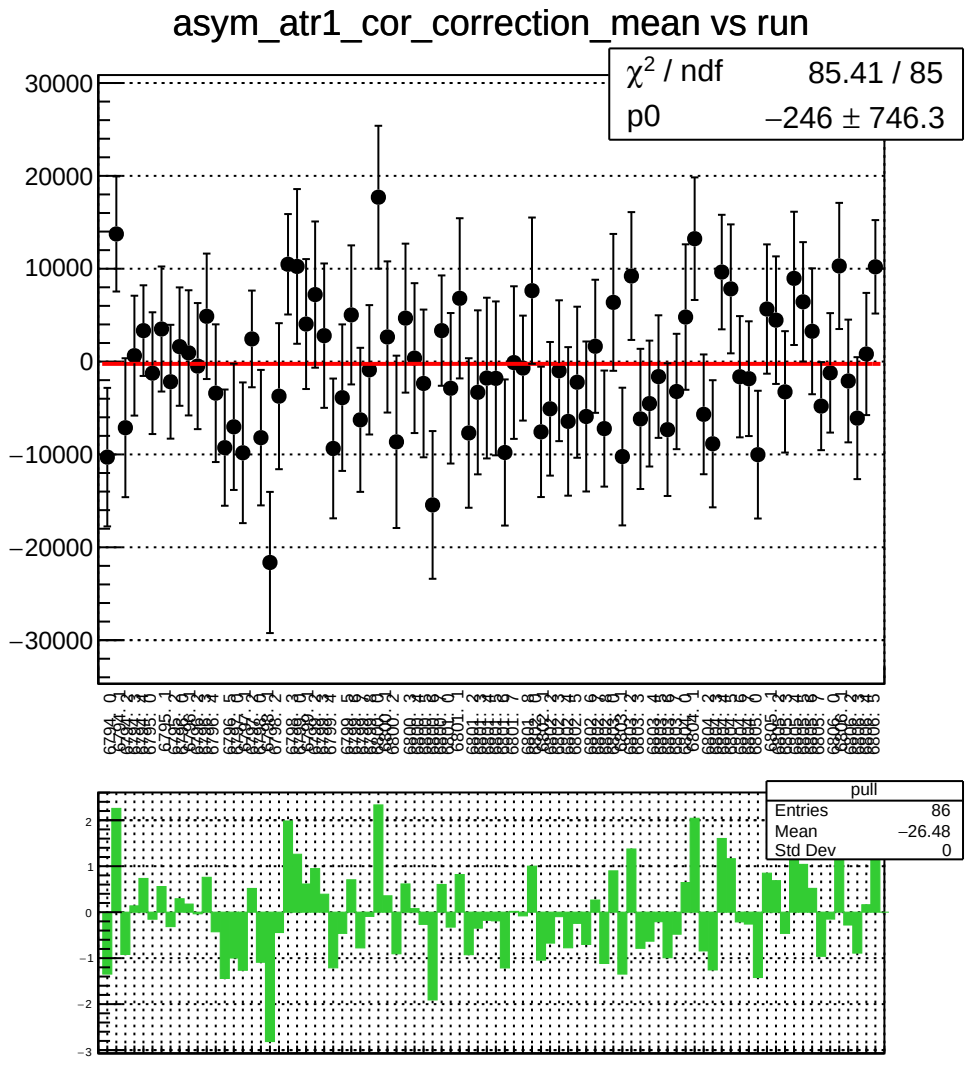

pull1D
Entries 86
Mean −0.03076
Std Dev 0.9961

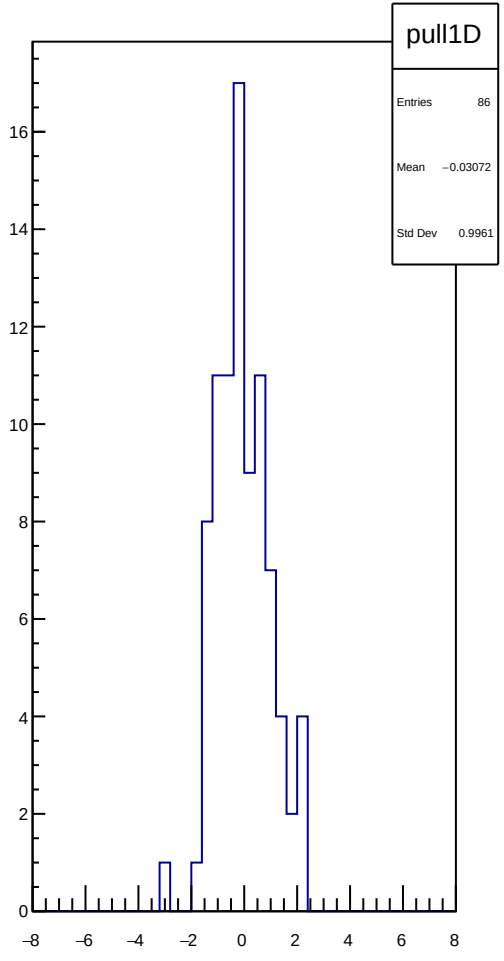

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.3e+04 / 85
p0 681.8 ± 0.5277
900
850
800
750
700
650
600

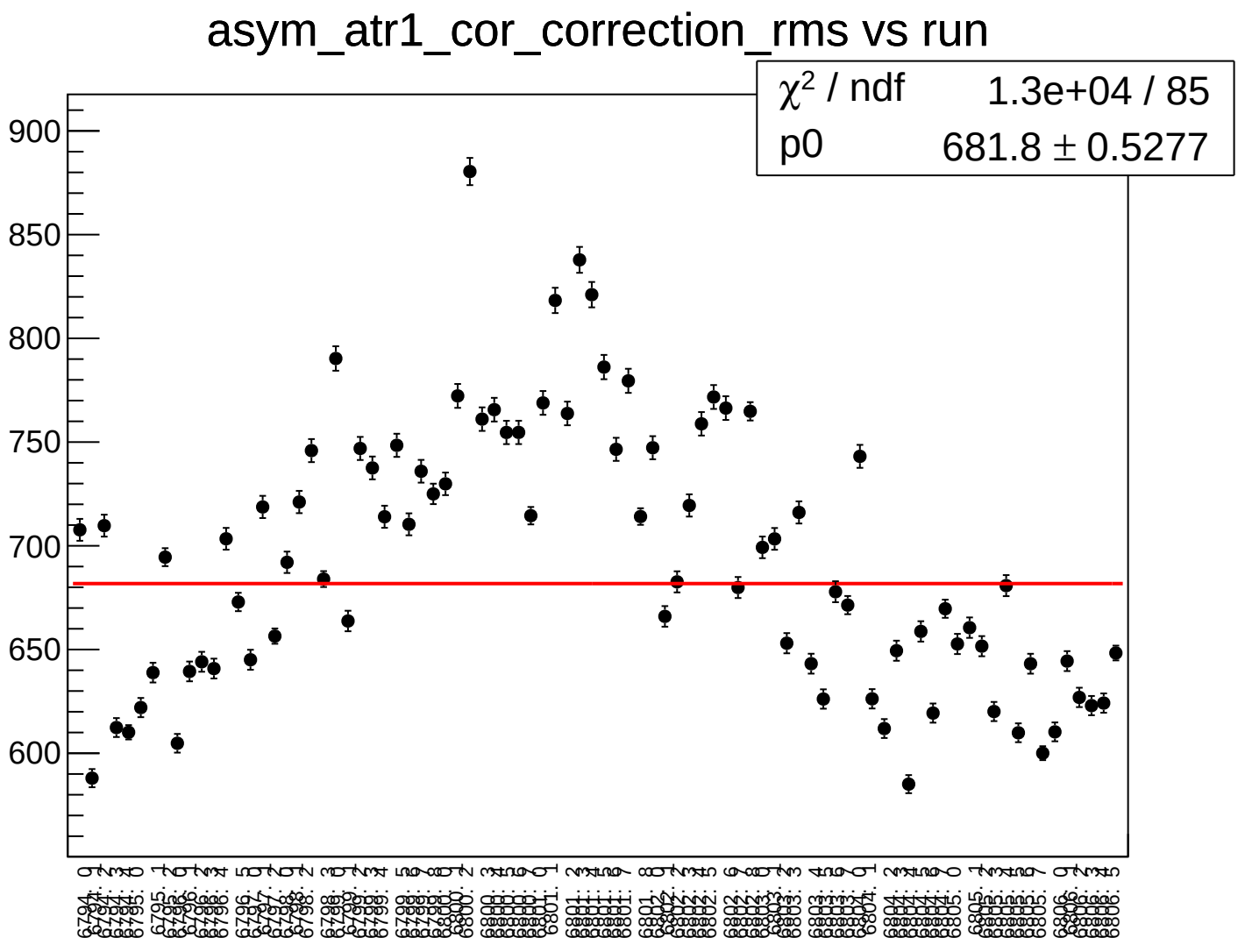

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 107.8 / 85
p0 3912 ± 2953
100
50
0
−50
−100
pull
Entries 86
Mean 51.47
Std Dev 64.82
2
1
0
−1
−2

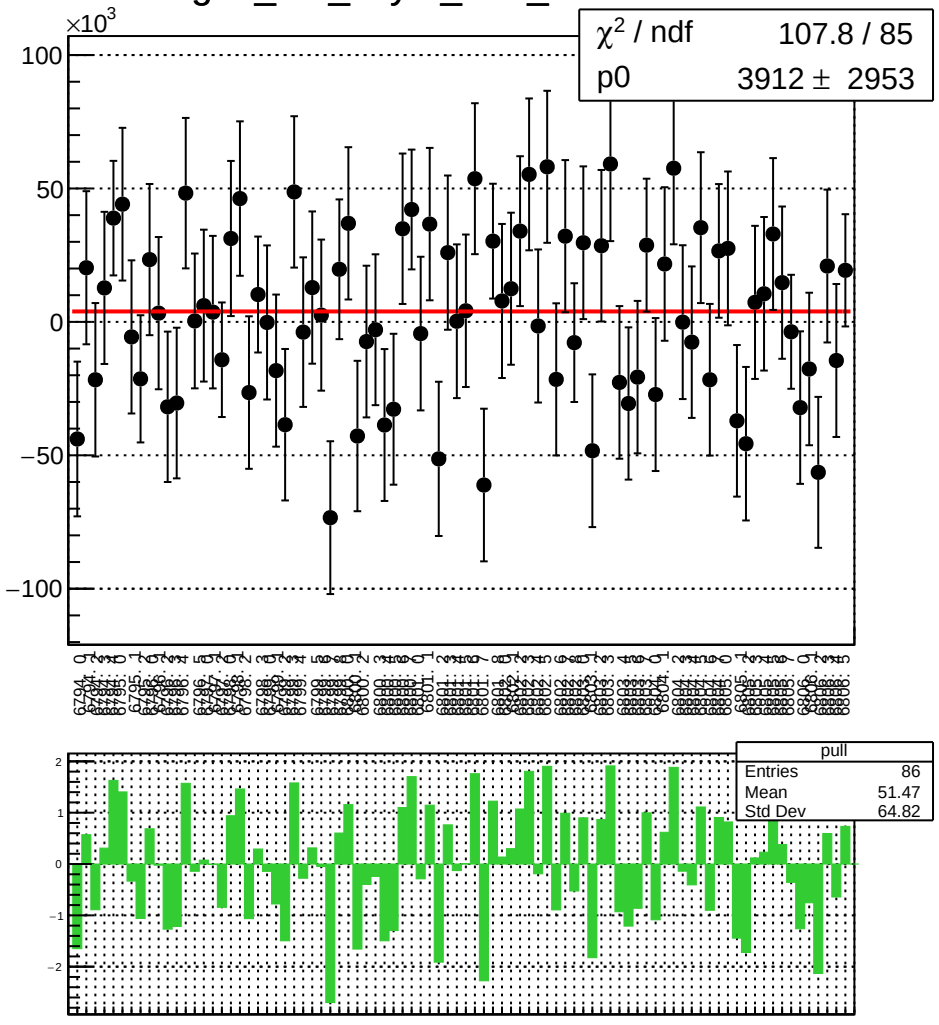

pull1D
Entries 86
Mean −0.01522
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

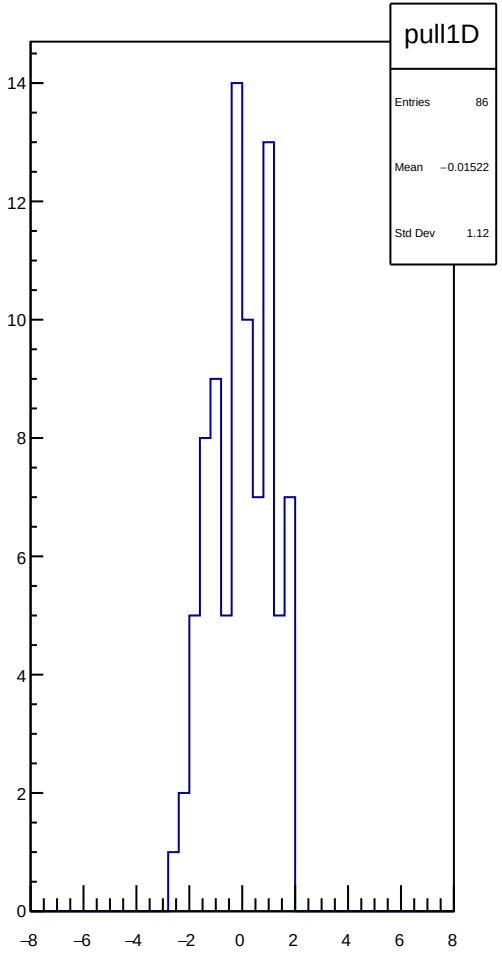

cor_asym_atr1_rms vs run
χ² / ndf 94 / 85
p0 2709 ± 2.088
2780
2760
2740
2720
2700
2680
2660
2640

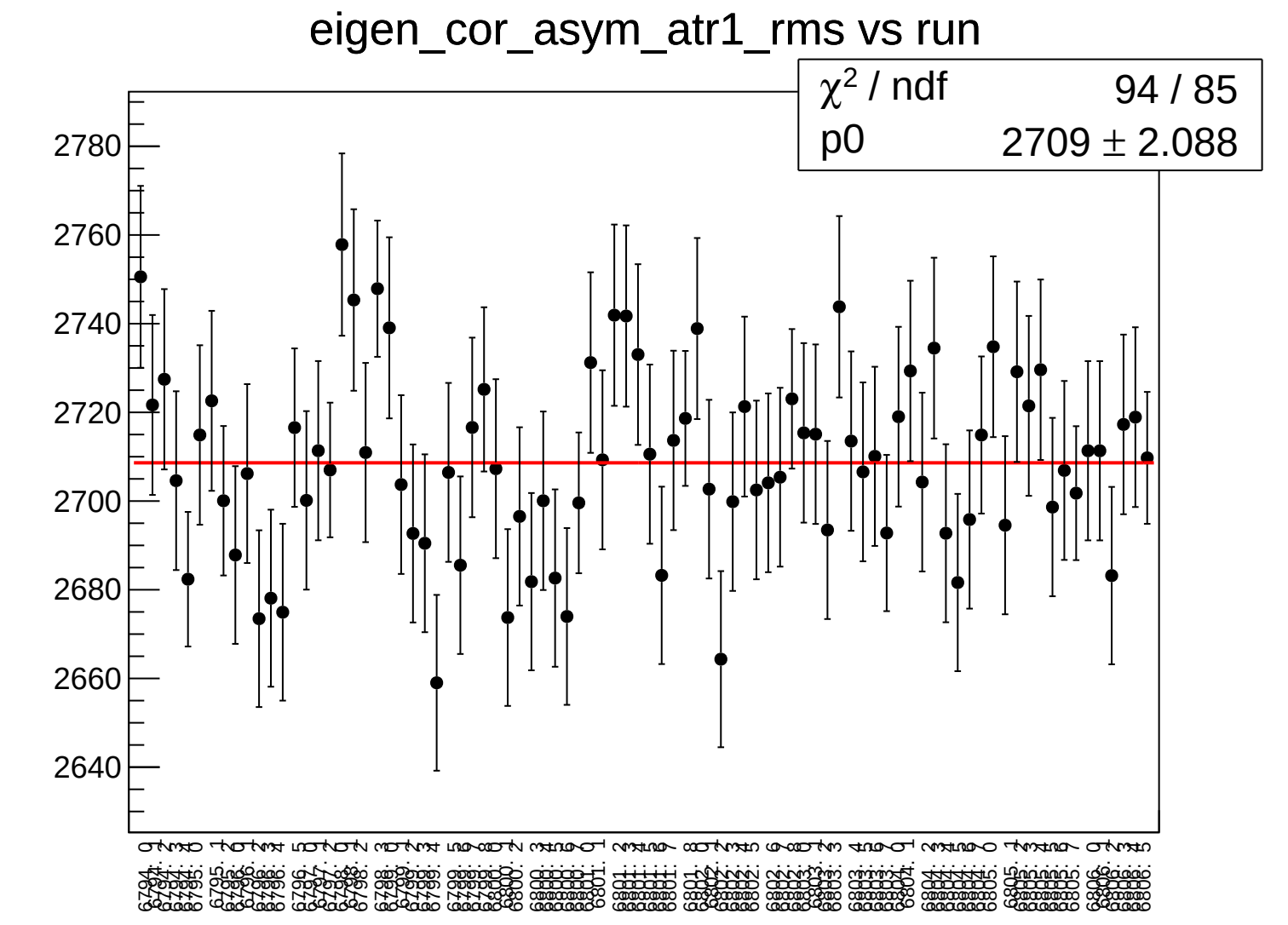

asym_atr1_cor_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −246 ± 746.3
pull
Entries 86
Mean −26.48
Std Dev 0

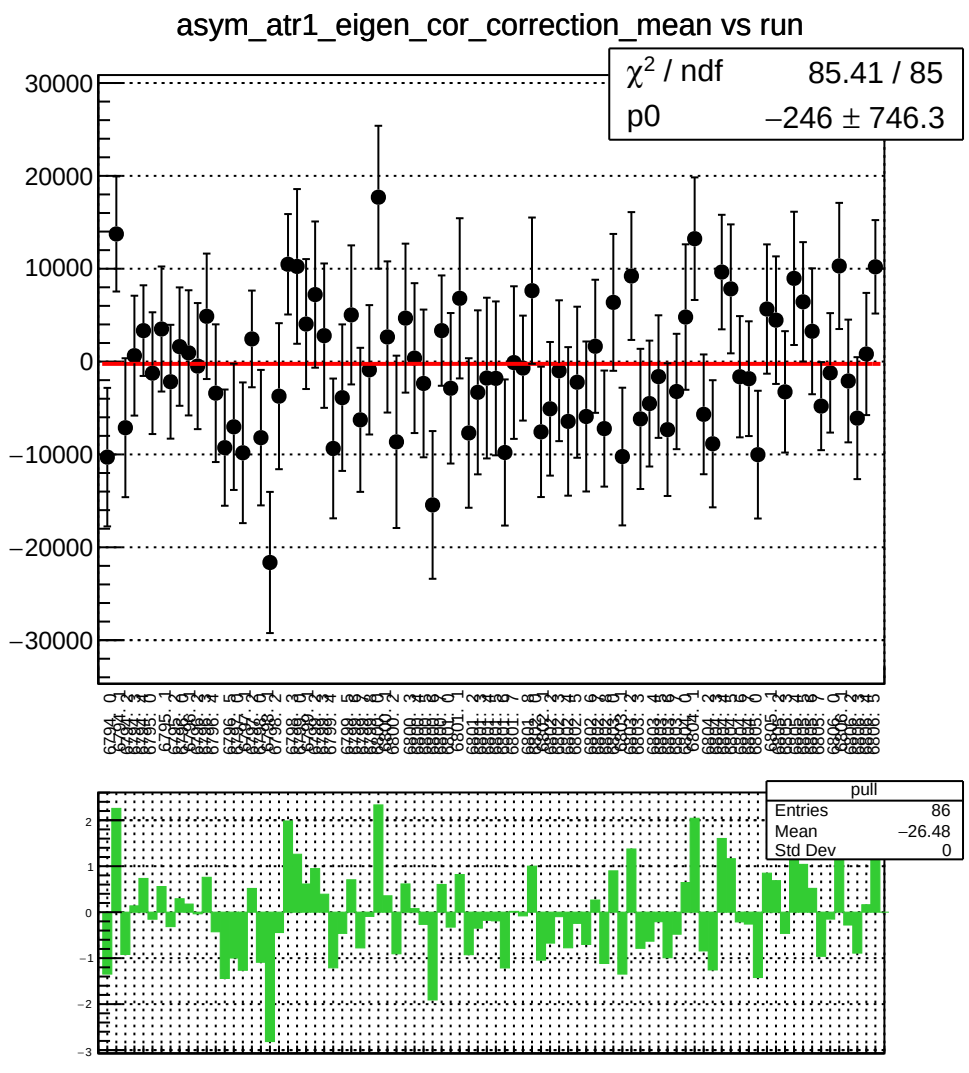

pull1D
Entries 86
Mean −0.03072
Std Dev 0.9961

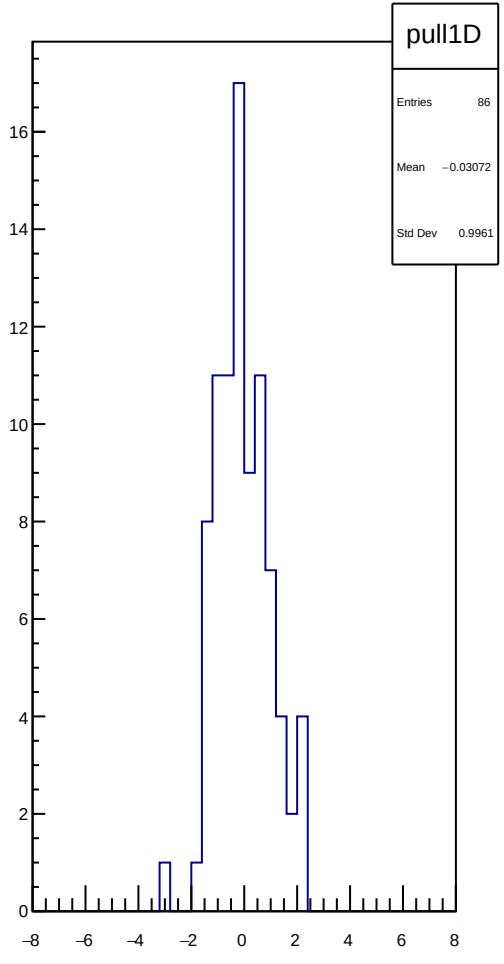

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.3e+04 / 85
p0 681.8 ± 0.5277
900
850
800
750
700
650
600

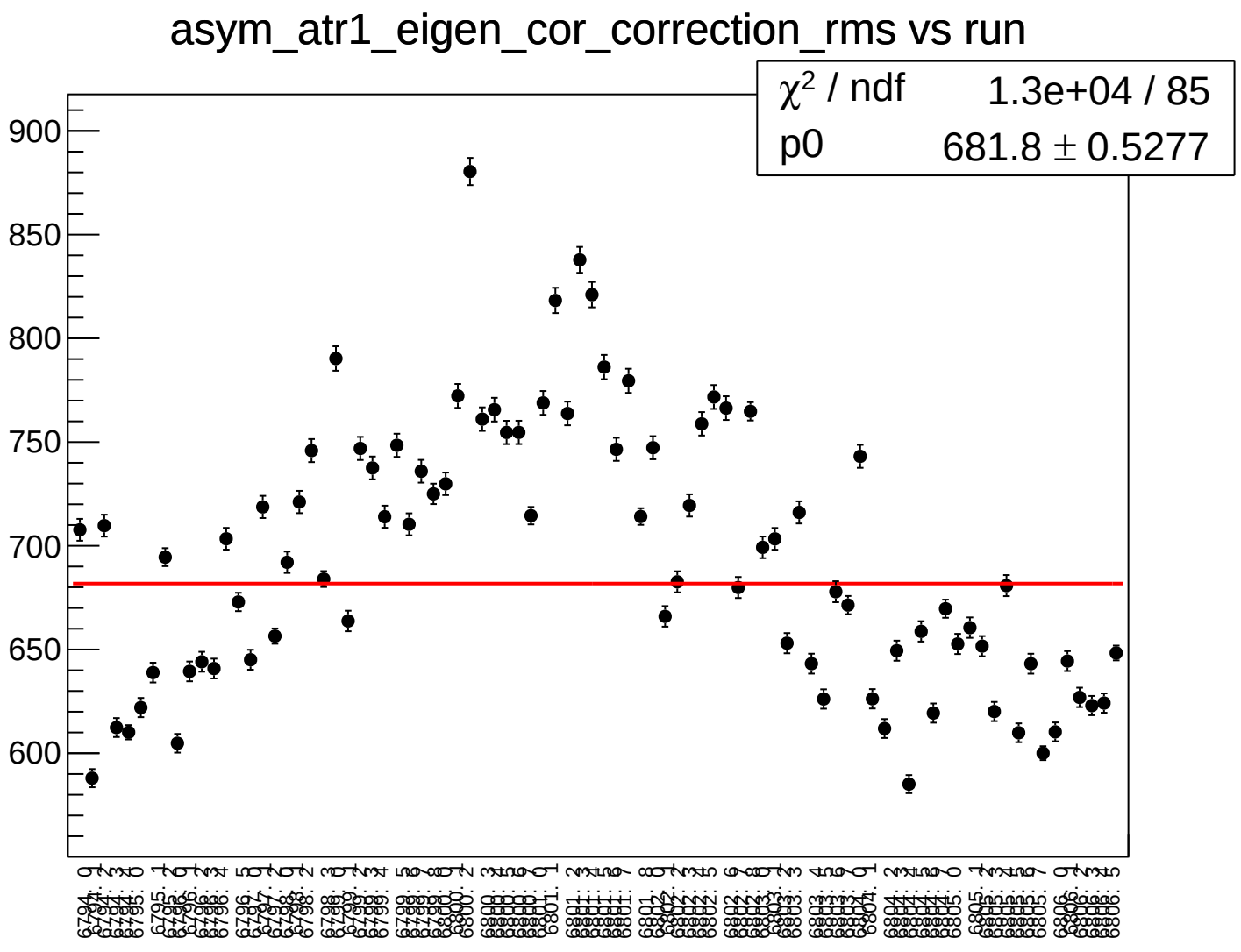

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 107.8 / 85
p0 3912 ± 2953
100
50
0
−50
−100
pull
Entries 86
Mean 51.47
Std Dev 64.82
2
1
0
−1
−2

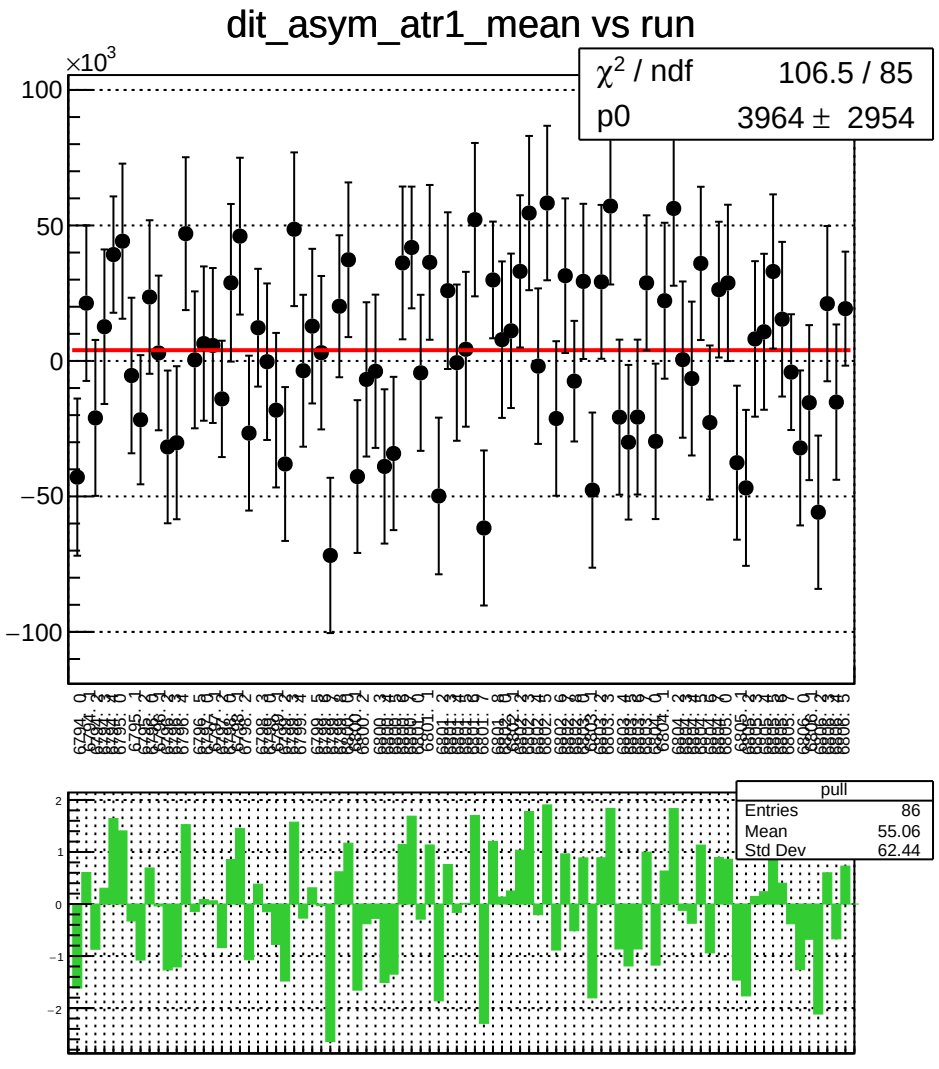

pull1D
Entries 86
Mean −0.01522
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

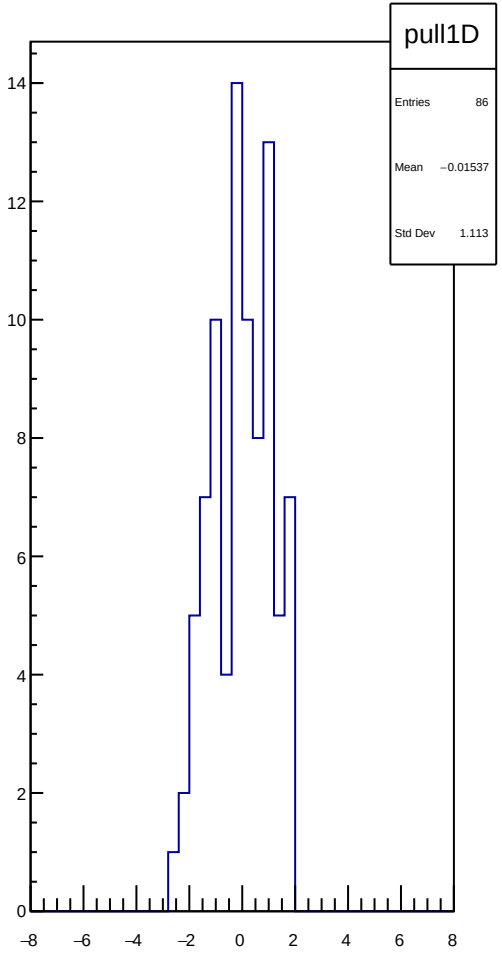

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 94 / 85
p0 2709 ± 2.088
2780
2760
2740
2720
2700
2680
2660
2640

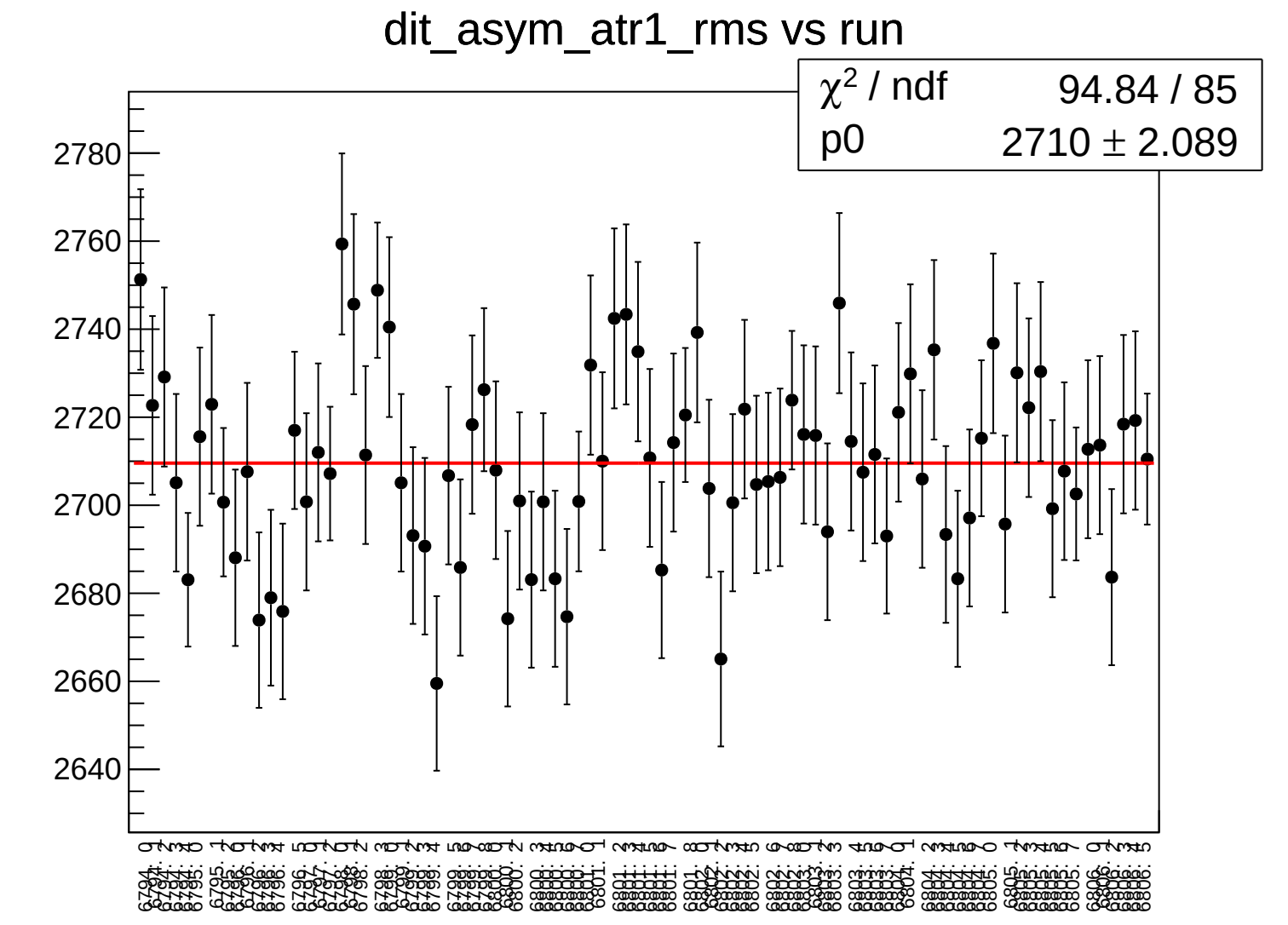

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 85.41 / 85
p0 −246 ± 746.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −26.48
Std Dev 0
2
1
0
−1
−2
−3

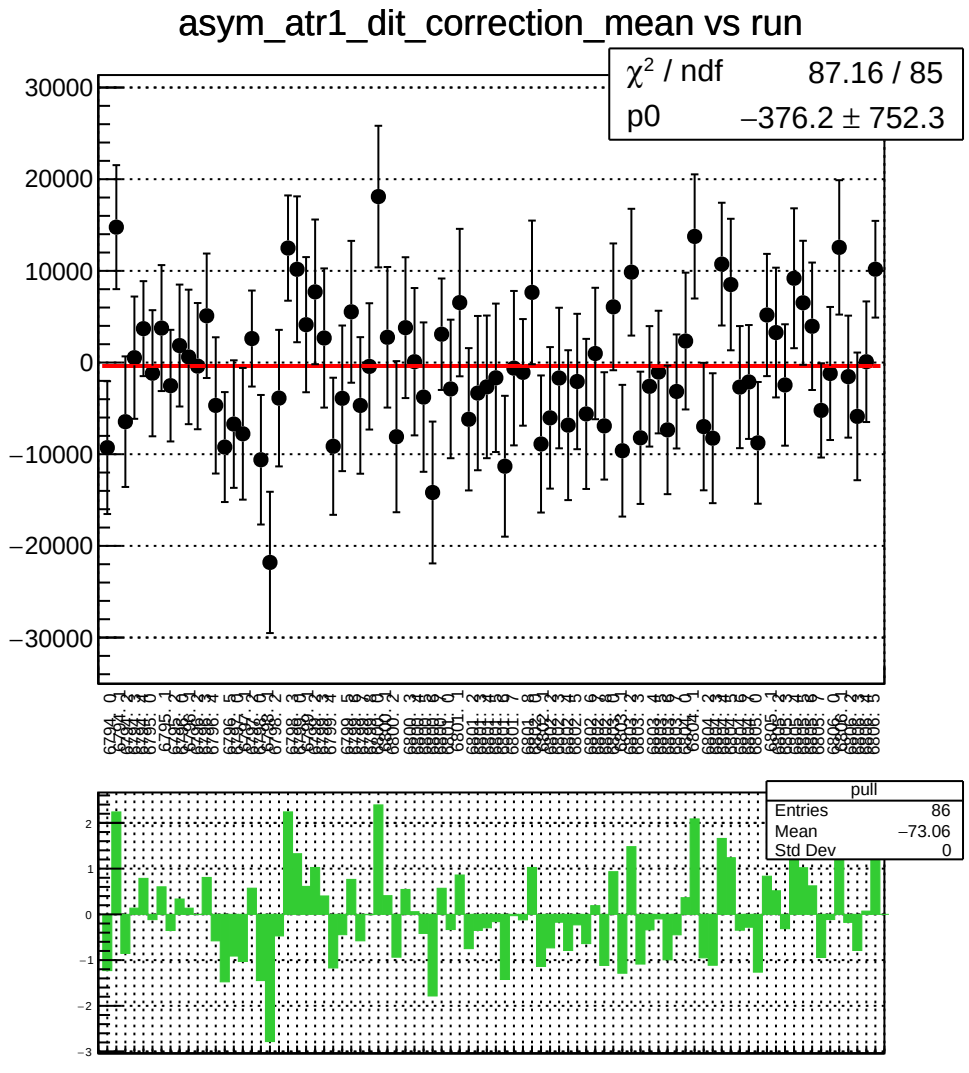

pull1D
Entries 86
Mean −0.03072
Std Dev 0.9961
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

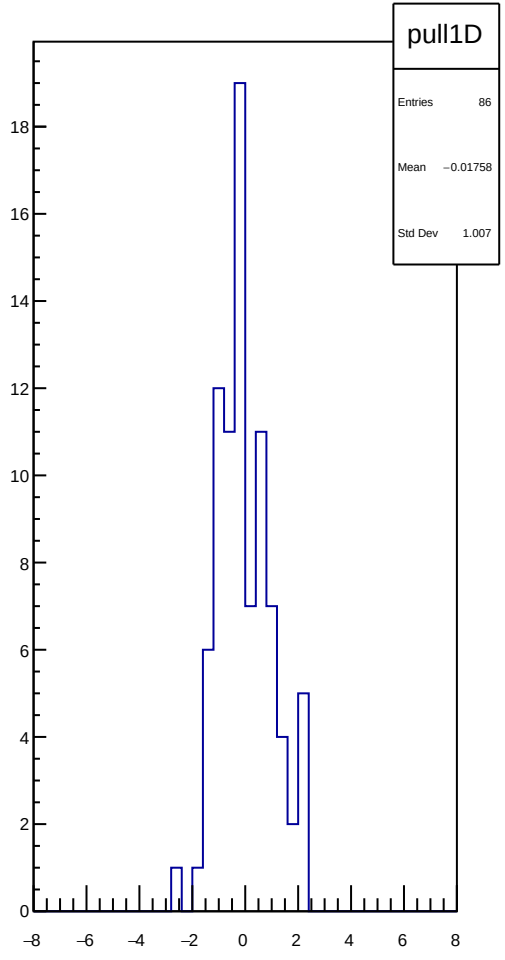

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.3e+04 / 85
p0 681.8 ± 0.5277
900
850
800
750
700
650
600

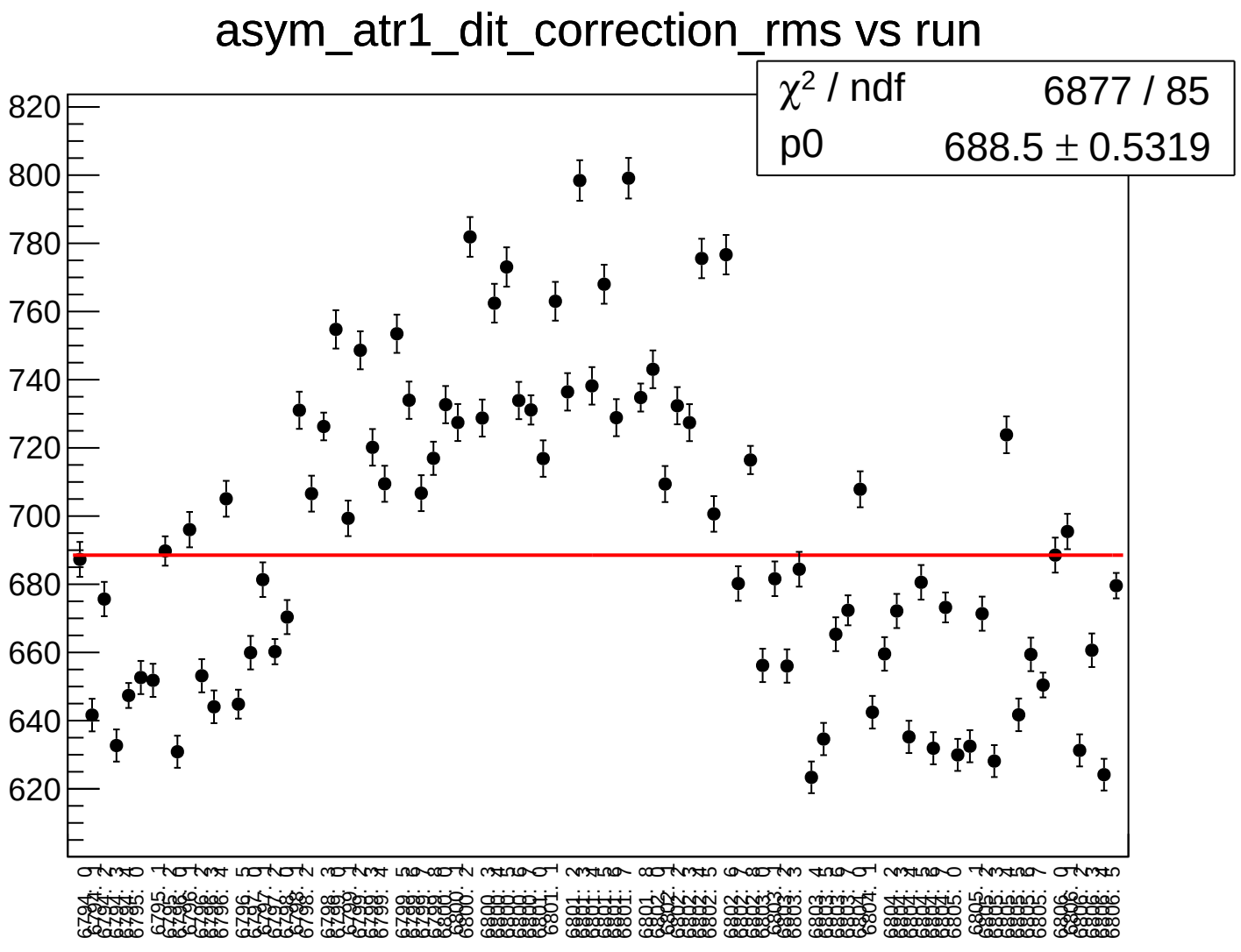

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 106.5 / 85
p0 3964 ± 2954
100
50
0
−50
−100
pull
Entries 86
Mean 55.06
Std Dev 62.44
2
1
0
−1
−2

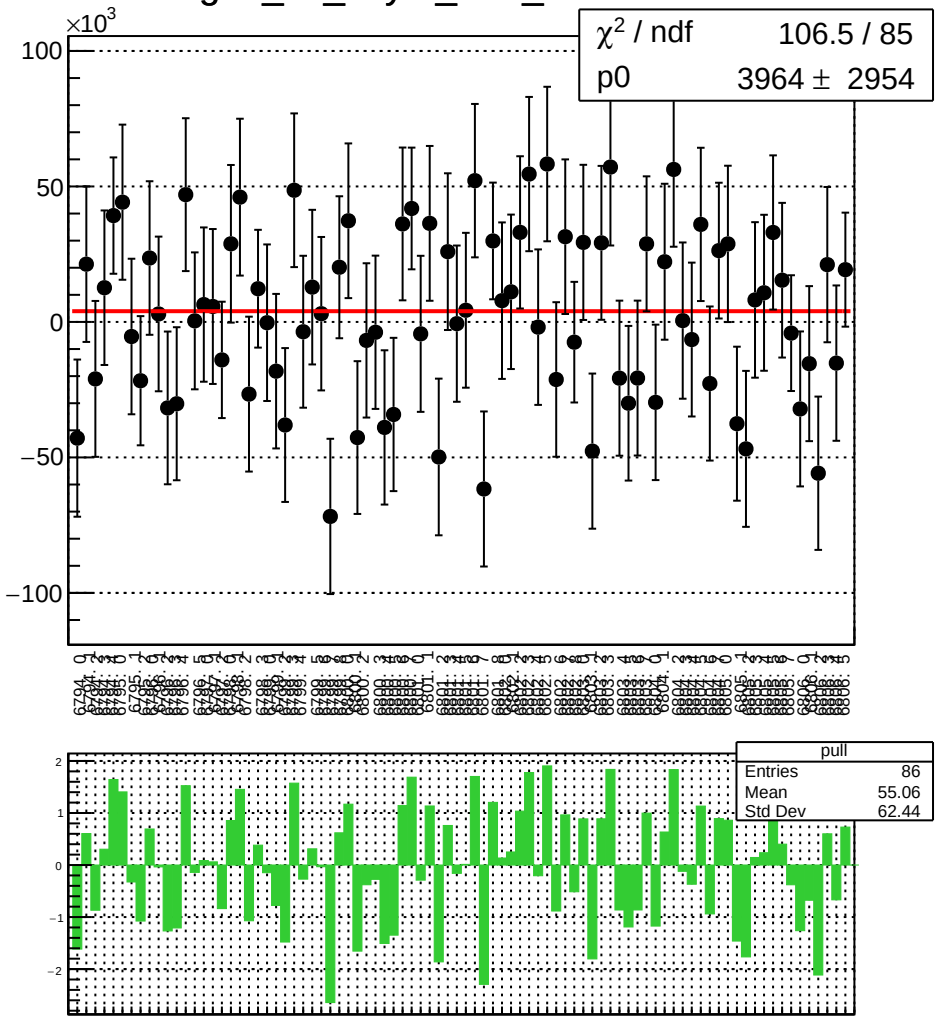

pull1D
Entries 86
Mean −0.01537
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

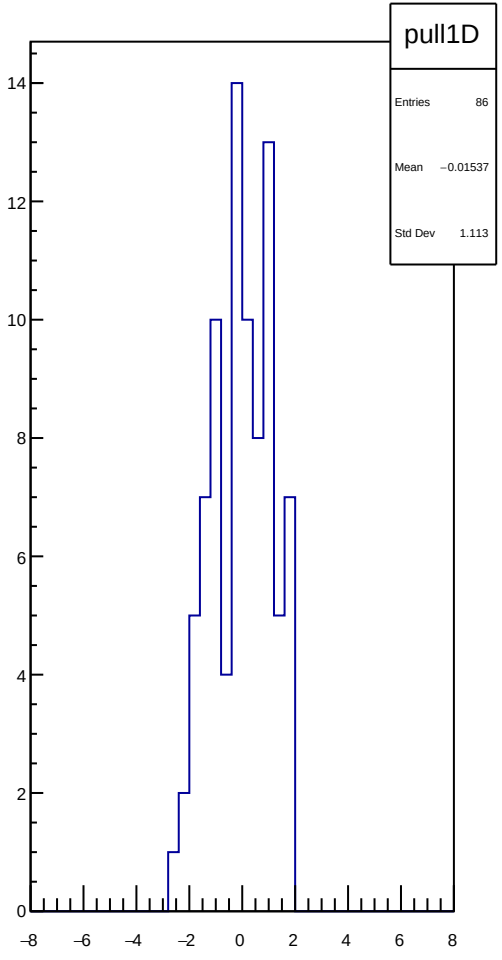

dit_asym_atr1_rms vs run
χ² / ndf 94.84 / 85
p0 2710 ± 2.089
2780
2760
2740
2720
2700
2680
2660
2640

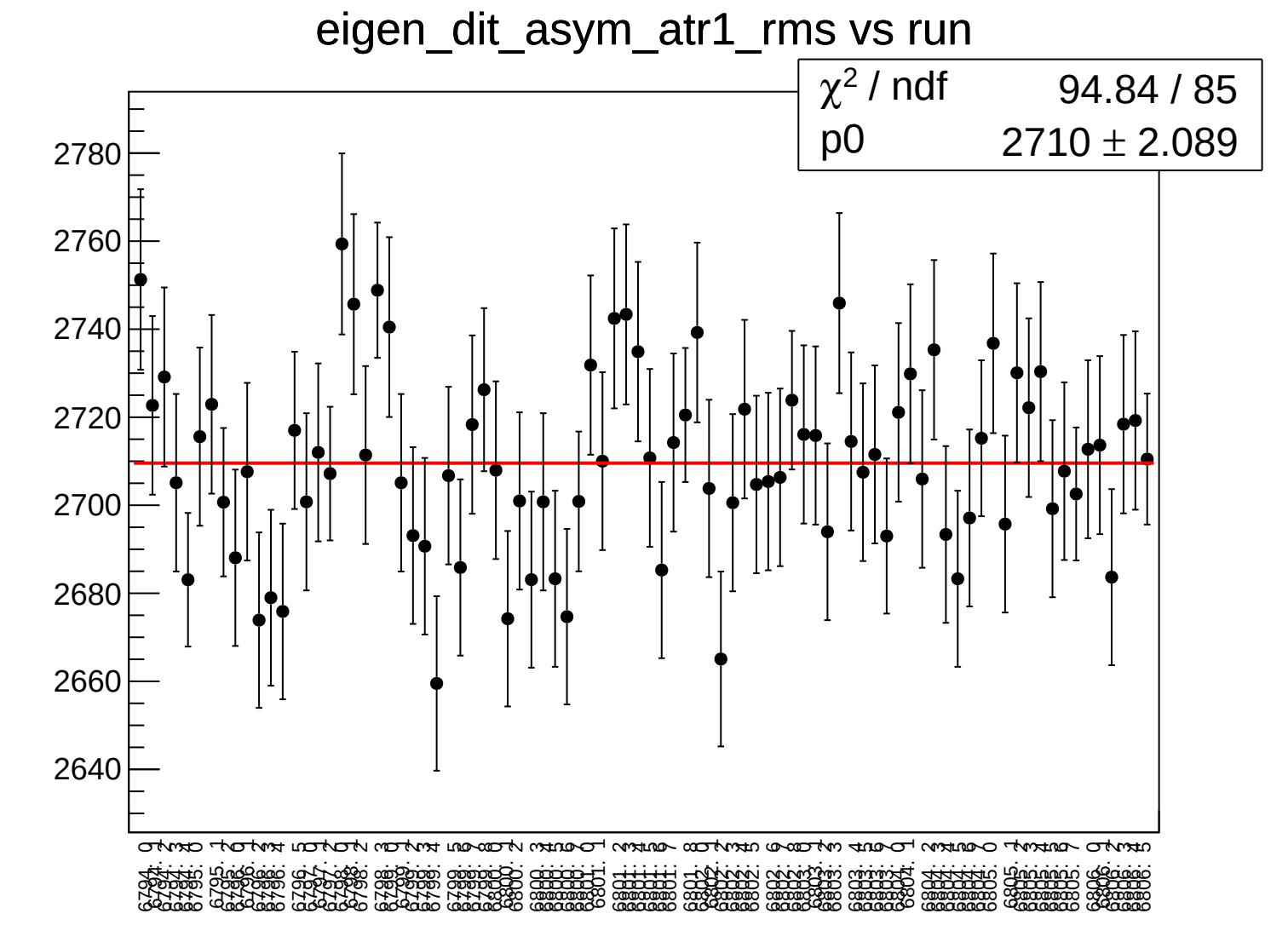

asym_atr1_dit_correction_mean vs run
χ² / ndf 87.16 / 85
p0 −376.2 ± 752.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −73.06
Std Dev 0
2
1
0
−1
−2
−3

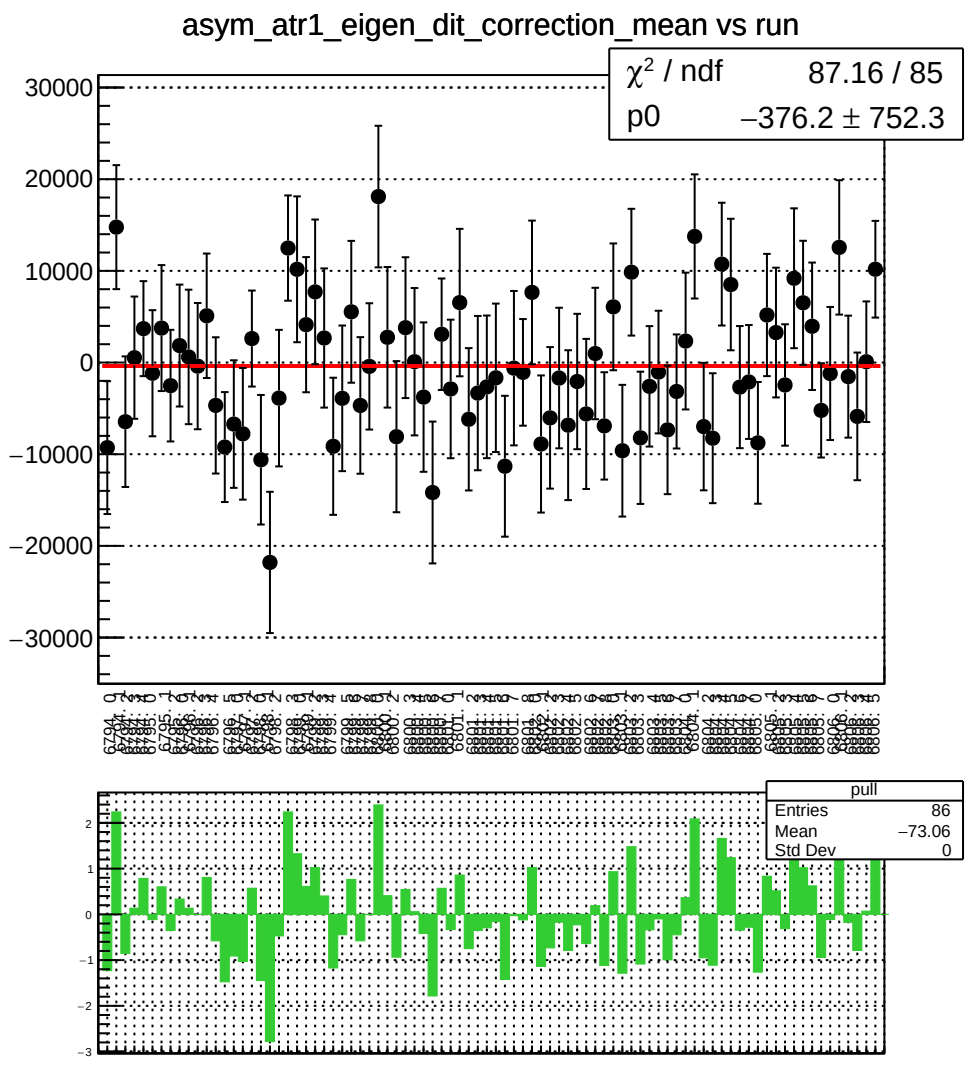

pull1D
Entries 86
Mean −0.01758
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

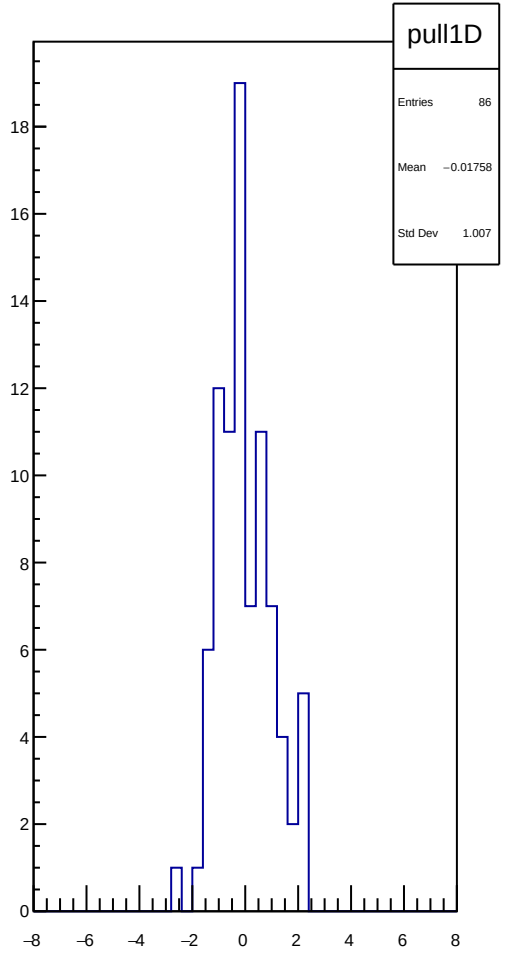

asym_atr1_dit_correction_rms vs run
χ² / ndf 6877 / 85
p0 688.5 ± 0.5319
820
800
780
760
740
720
700
680
660
640
620

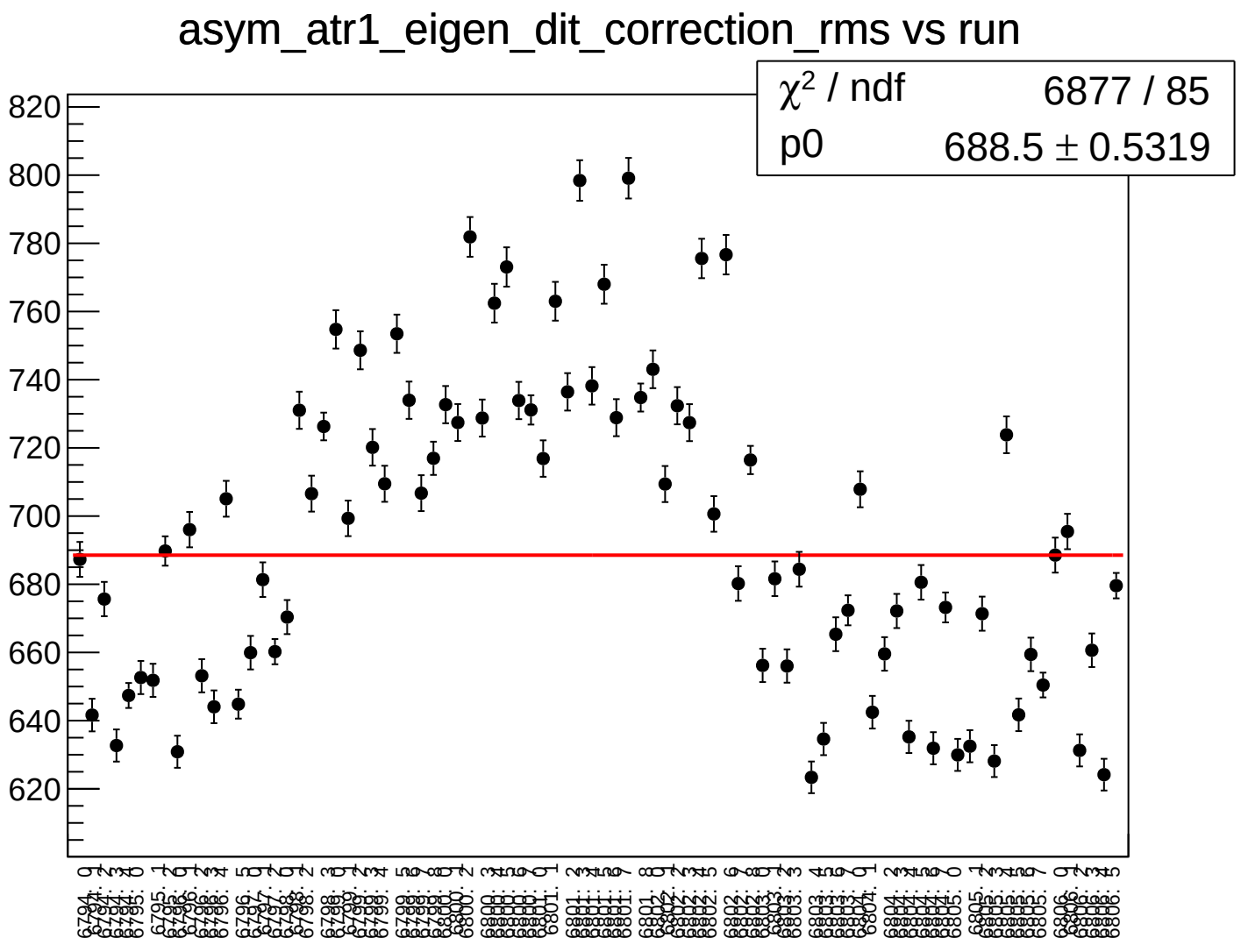

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 106.5 / 85
p0 3964 ± 2954
100
50
0
−50
−100
pull
Entries 86
Mean 55.06
Std Dev 62.44
2
1
0
−1
−2

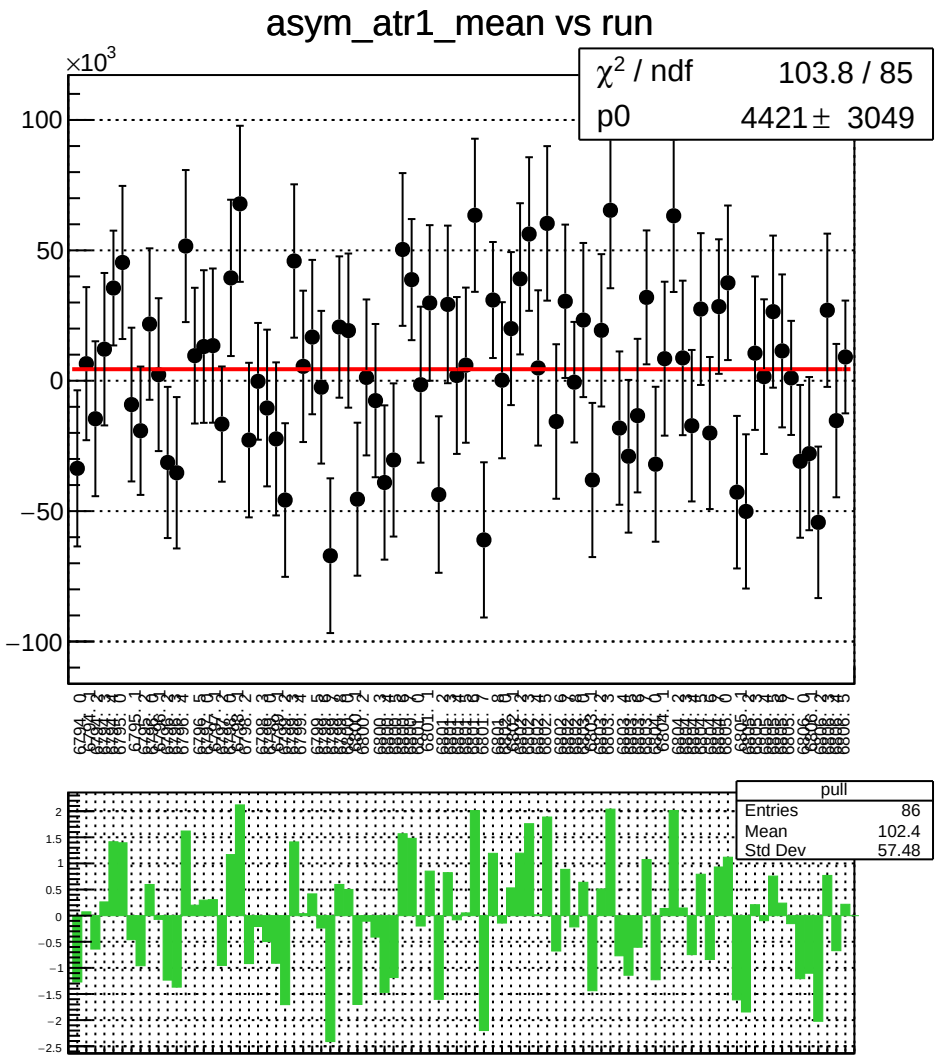

pull1D
Entries 86
Mean −0.01537
Std Dev 1.113
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

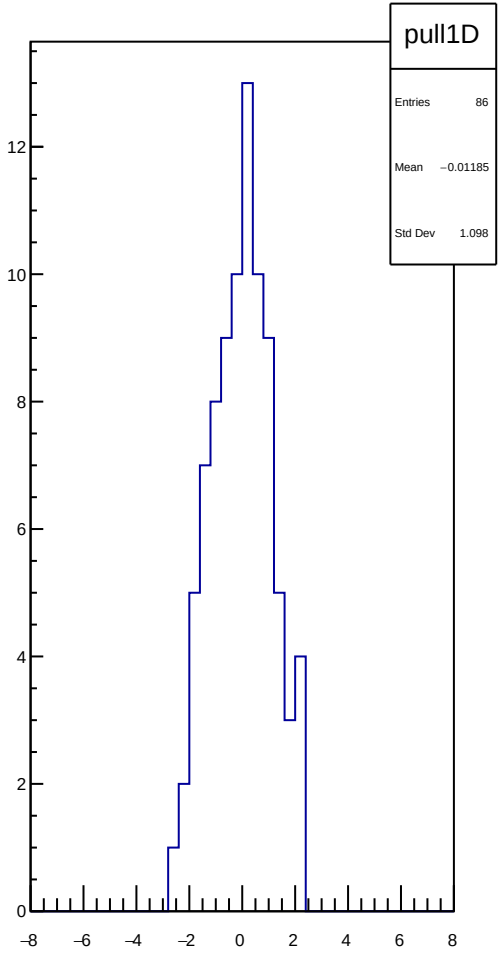

eigen_dit_asym_atr1_rms vs run
χ^2 / ndf 94.84 / 85
p0 2710 ± 2.089
2780
2760
2740
2720
2700
2680
2660
2640

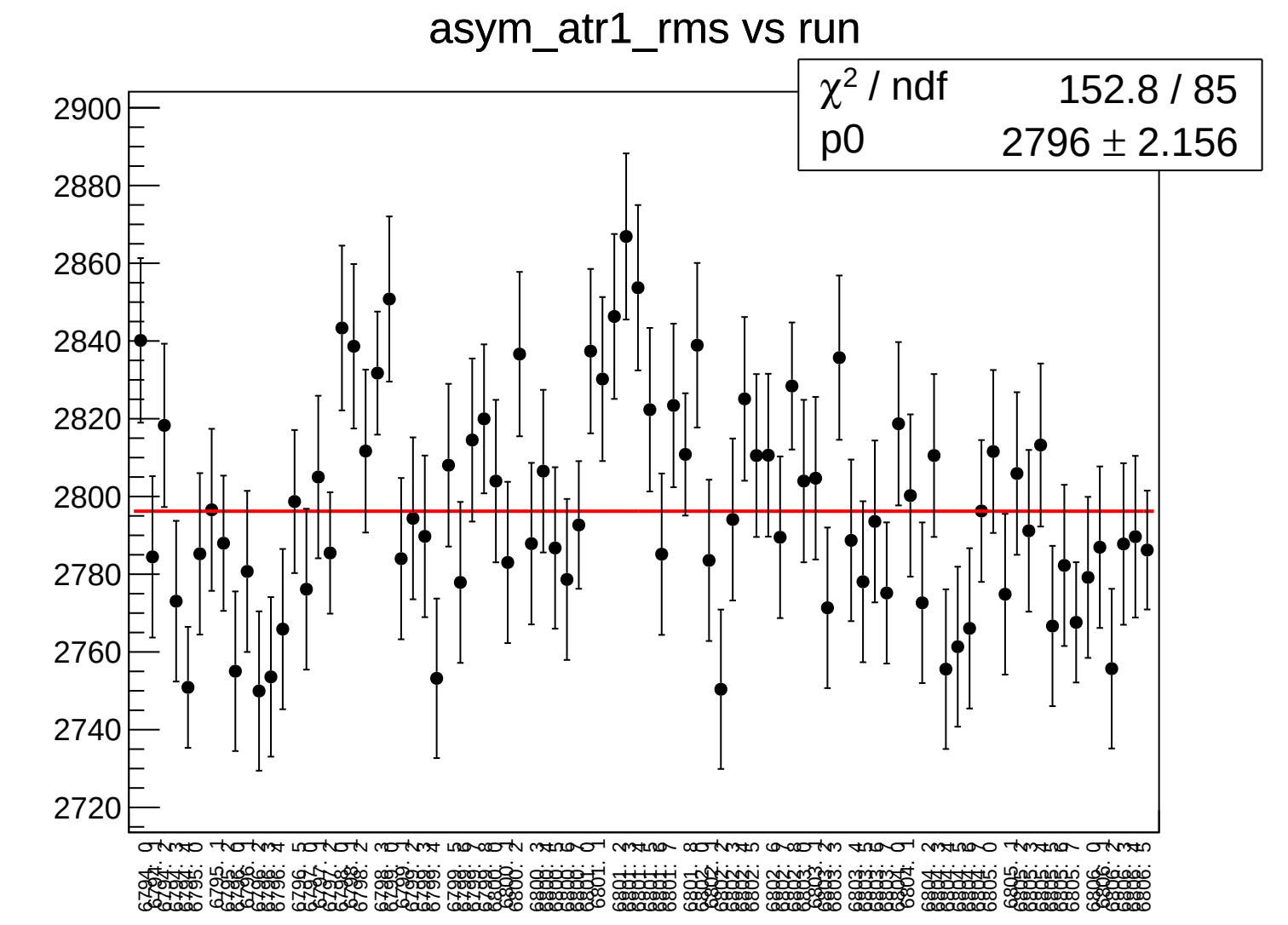

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 87.16 / 85
p0 −376.2 ± 752.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −73.06
Std Dev 0
2
1
0
−1
−2
−3

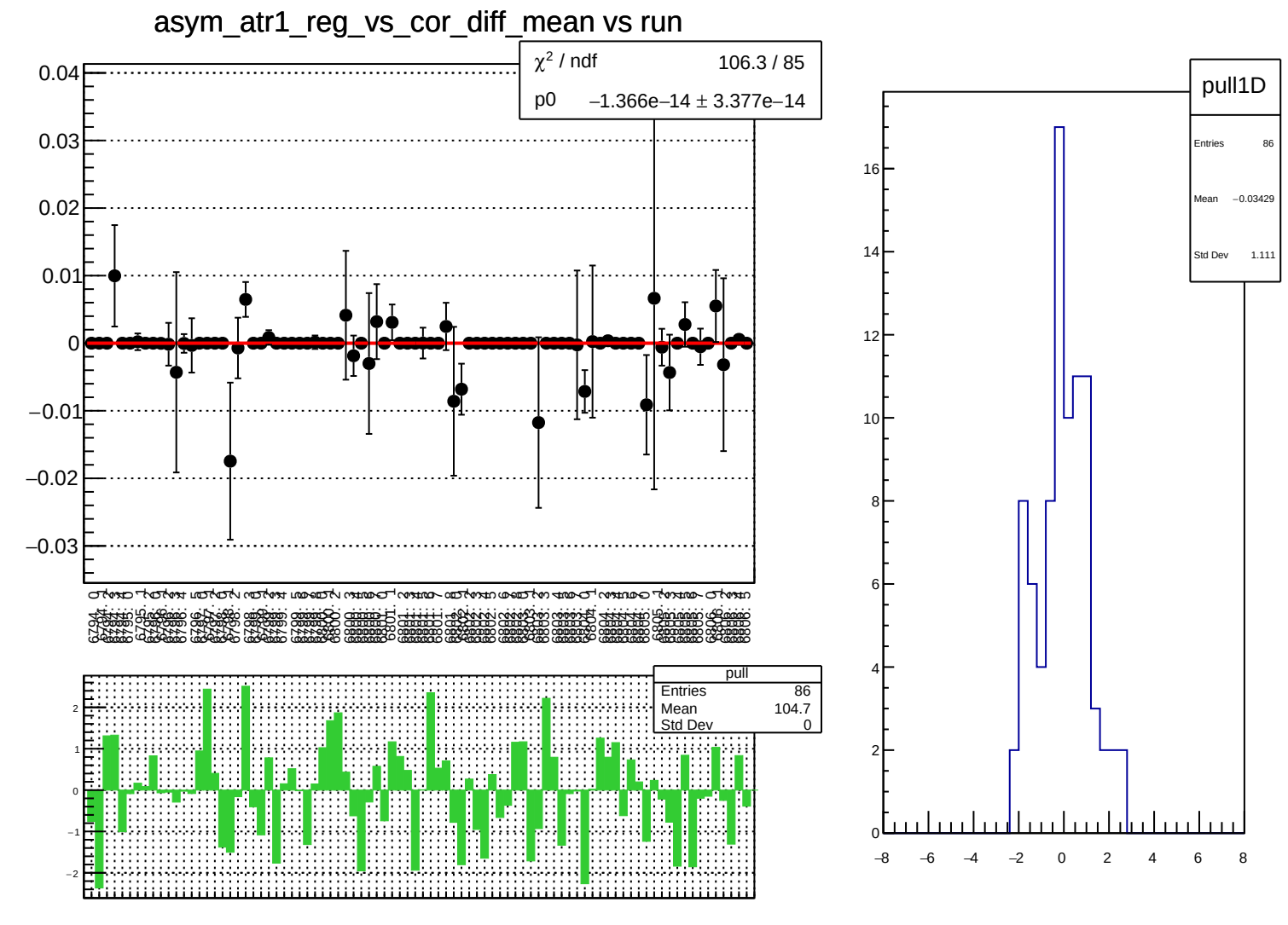

pull1D
Entries 86
Mean −0.01758
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

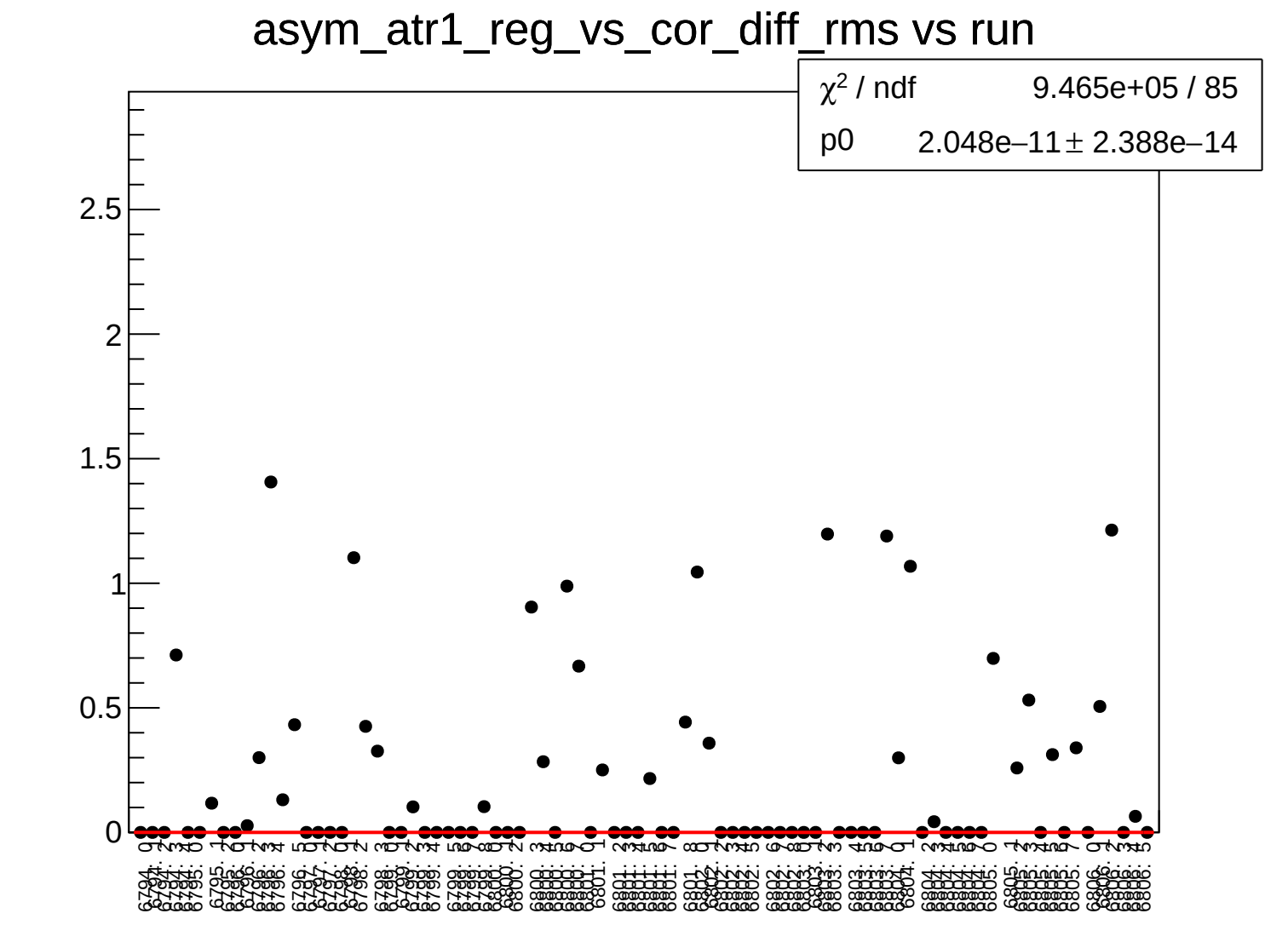

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 6877 / 85
p0 688.5 ± 0.5319
820
800
780
760
740
720
700
680
660
640
620

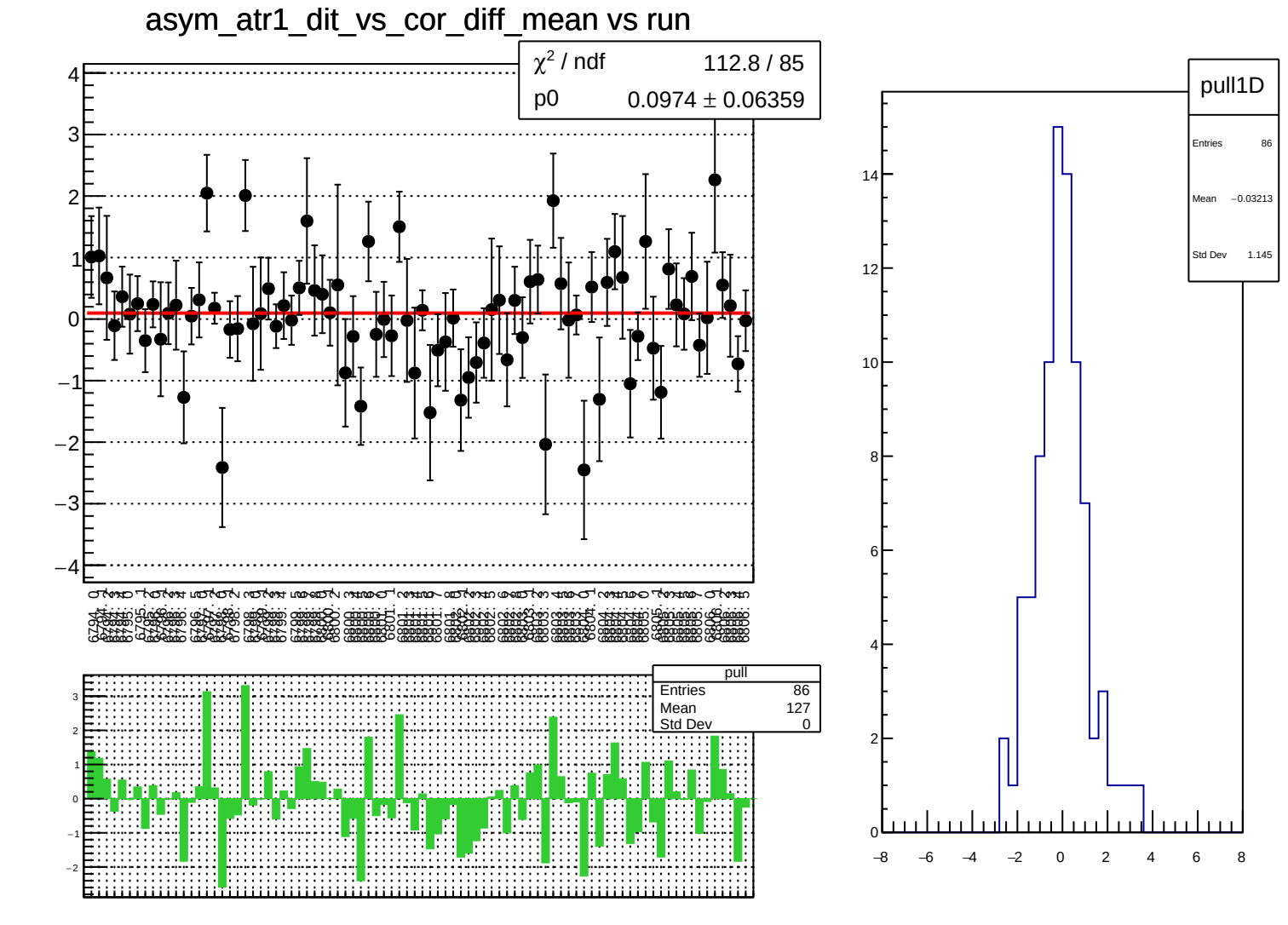

asym_atr1_mean vs run
×10^3
χ² / ndf 103.8 / 85
p0 4421 ± 3049
100
50
0
−50
−100
pull
Entries 86
Mean 102.4
Std Dev 57.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

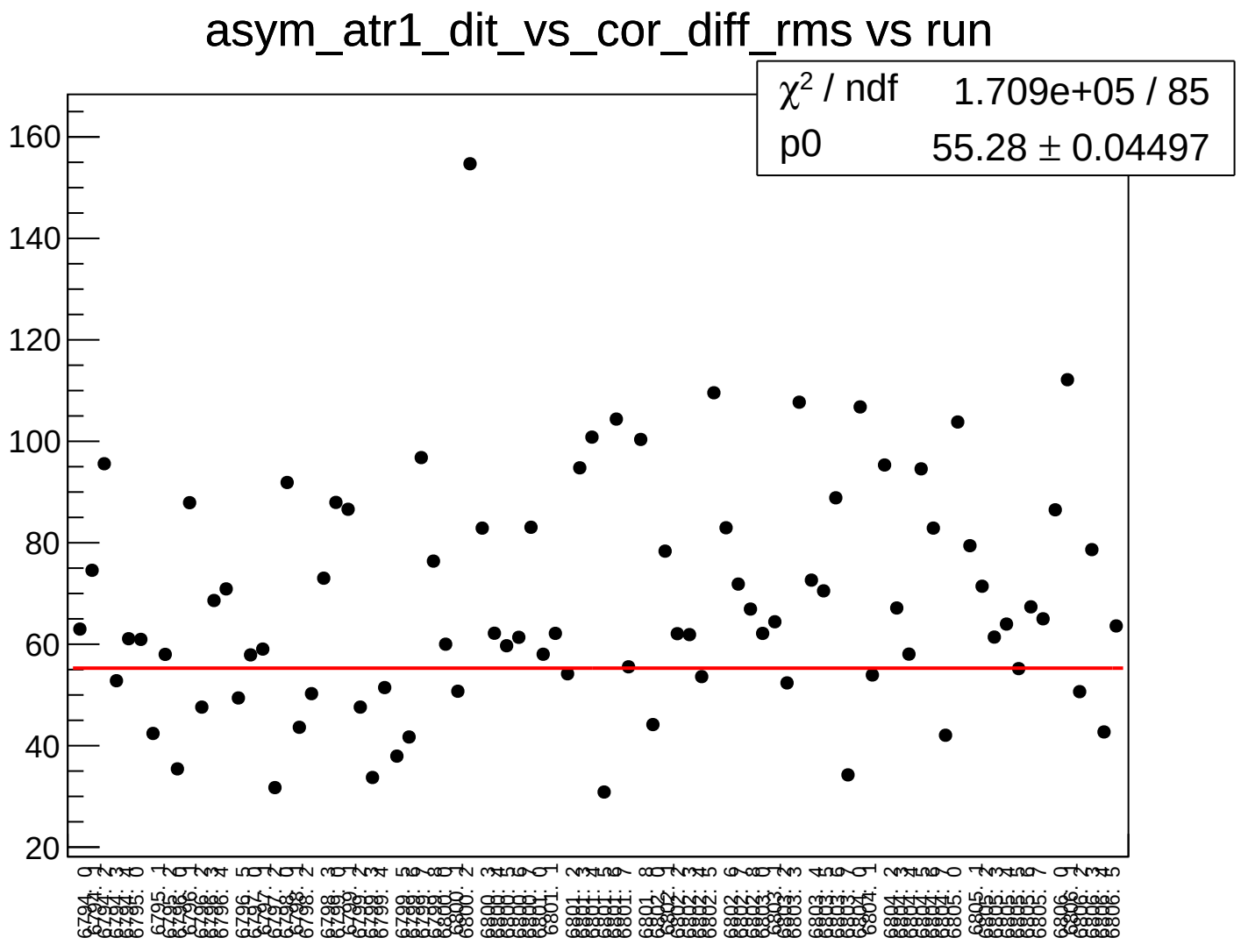

pull1D
Entries 86
Mean −0.01185
Std Dev 1.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

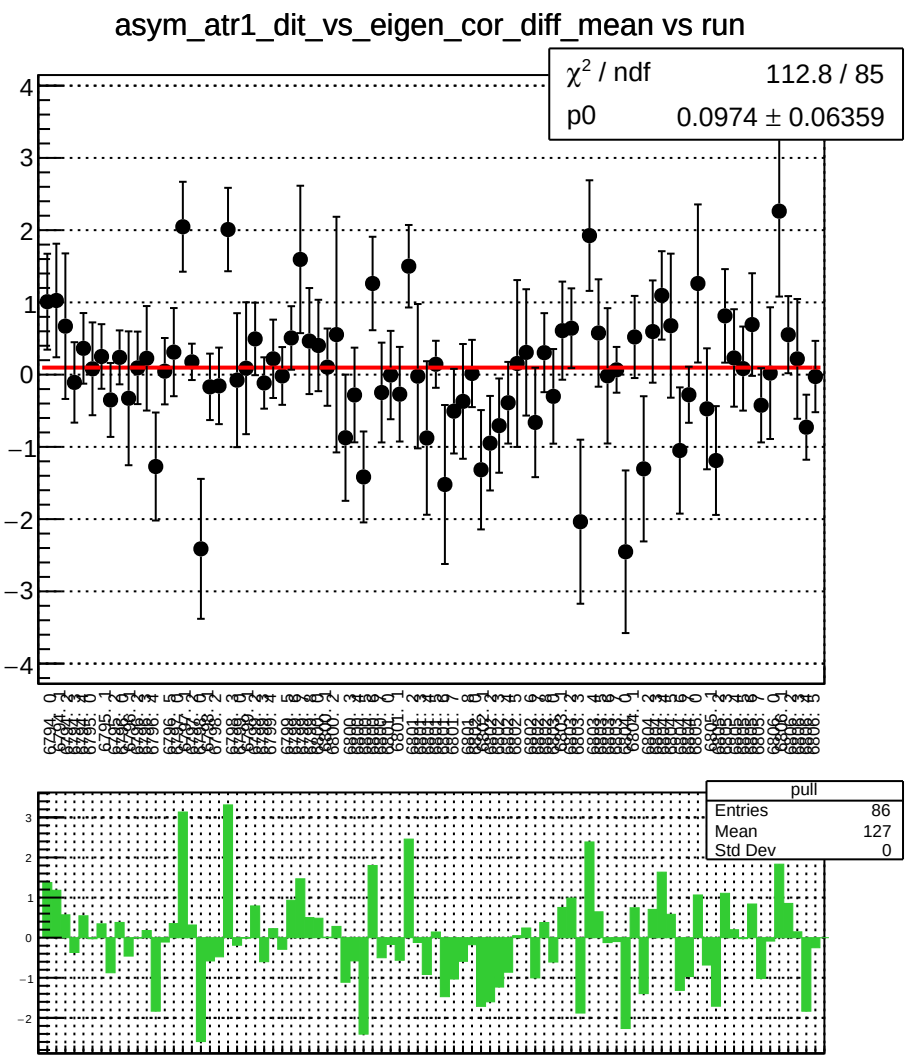

asym_atr1_rms vs run
χ^2 / ndf 152.8 / 85
p0 2796 ± 2.156
2900
2880
2860
2840
2820
2800
2780
2760
2740
2720

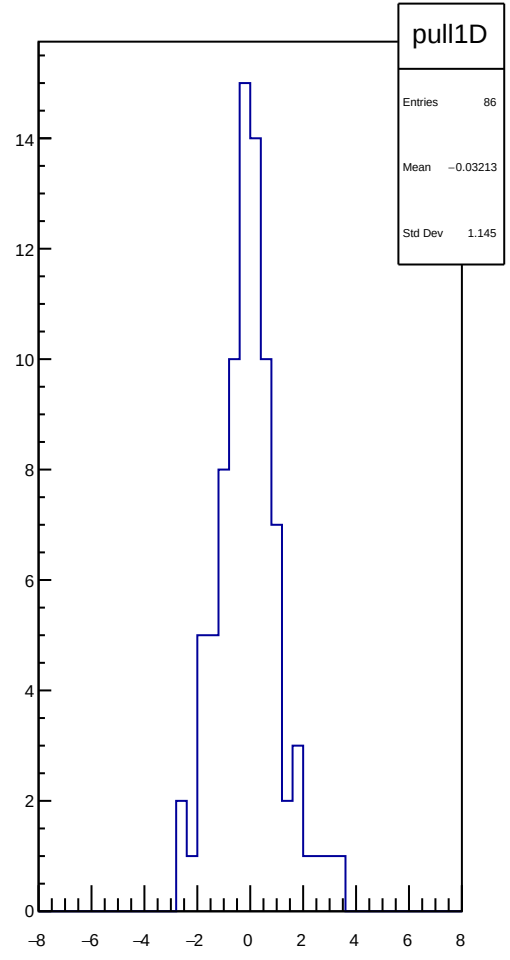

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 85
p0 −1.366e−14 ± 3.377e−14
pull
Entries 86
Mean 104.7
Std Dev 0
pull1D
Entries 86
Mean −0.03429
Std Dev 1.111

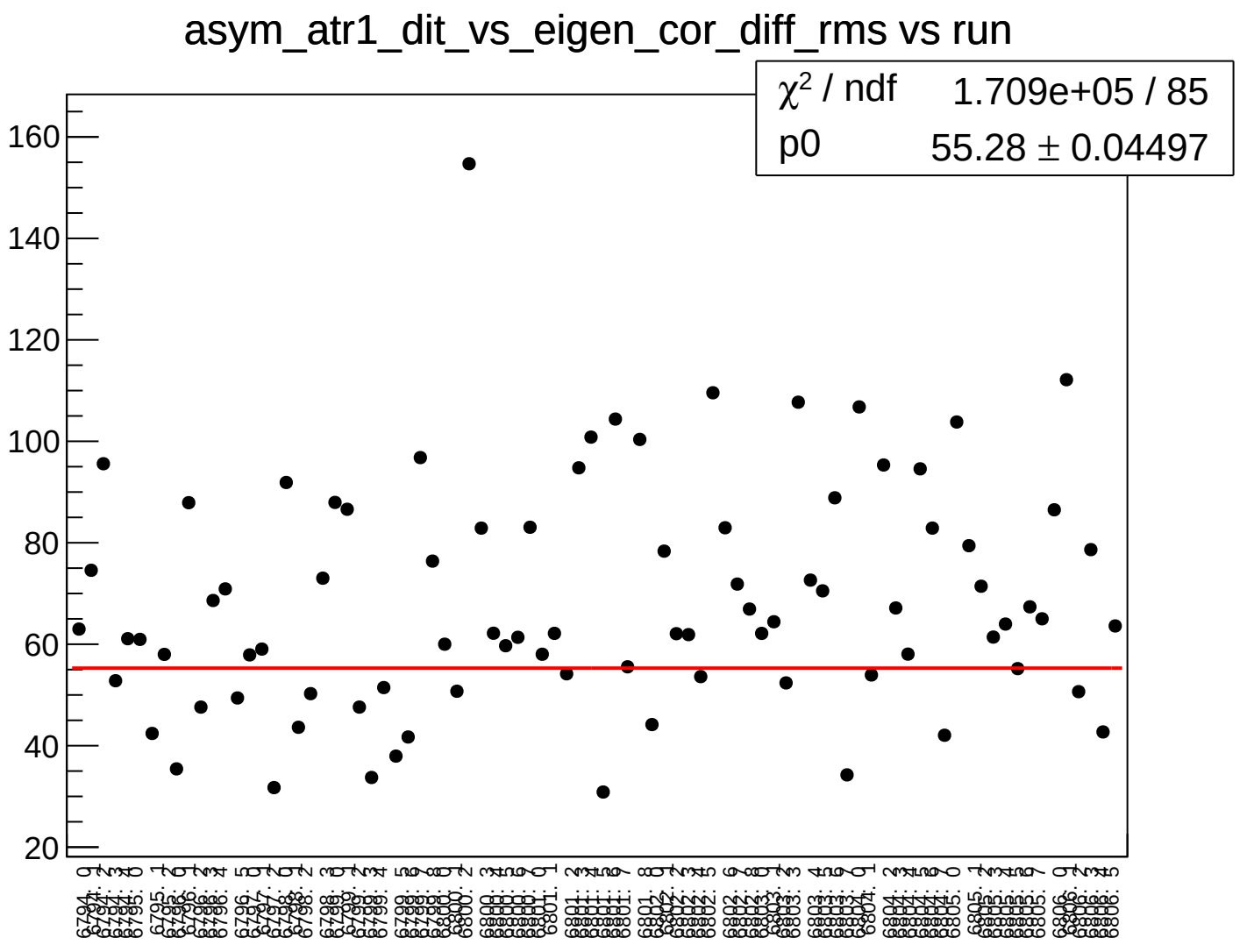

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 9.465e+05 / 85
p0 2.048e−11 ± 2.388e−14
2.5
2
1.5
1
0.5
0

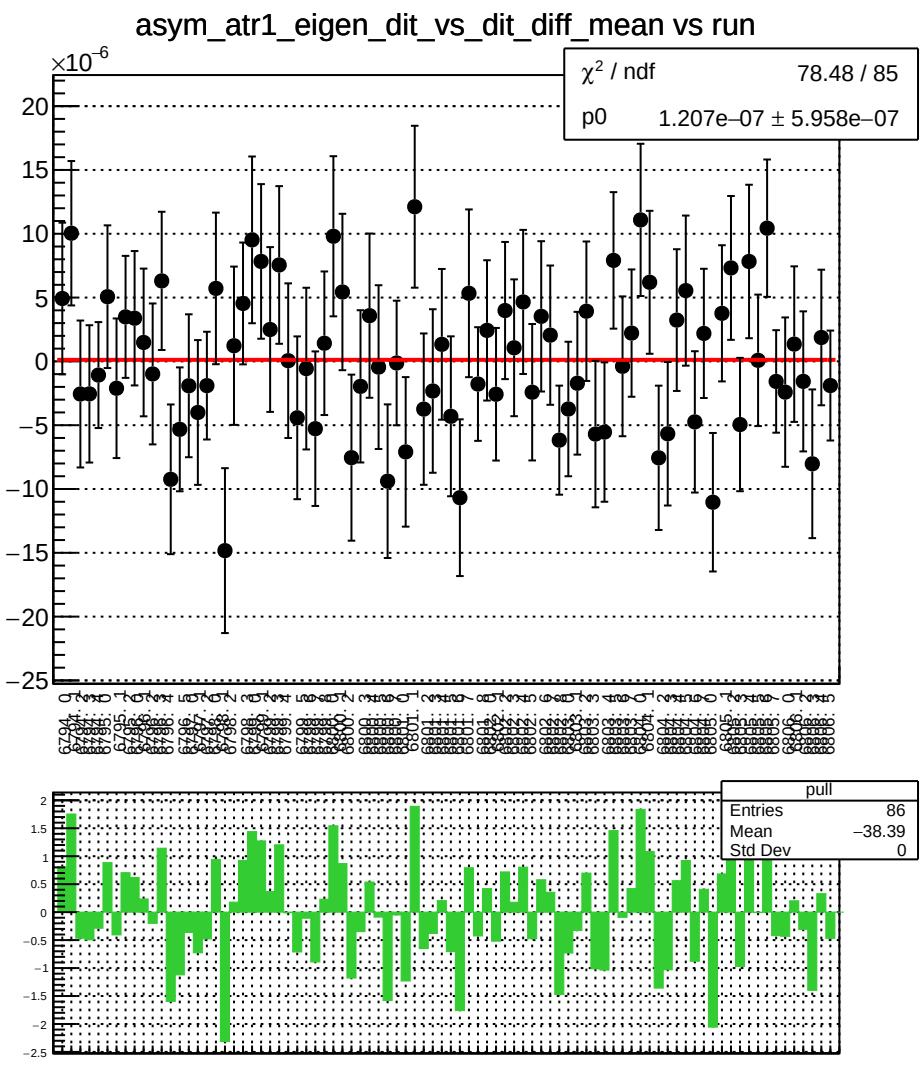

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.0974 ± 0.06359
pull
Entries 86
Mean 127
Std Dev 0
pull1D
Entries 86
Mean −0.03213
Std Dev 1.145

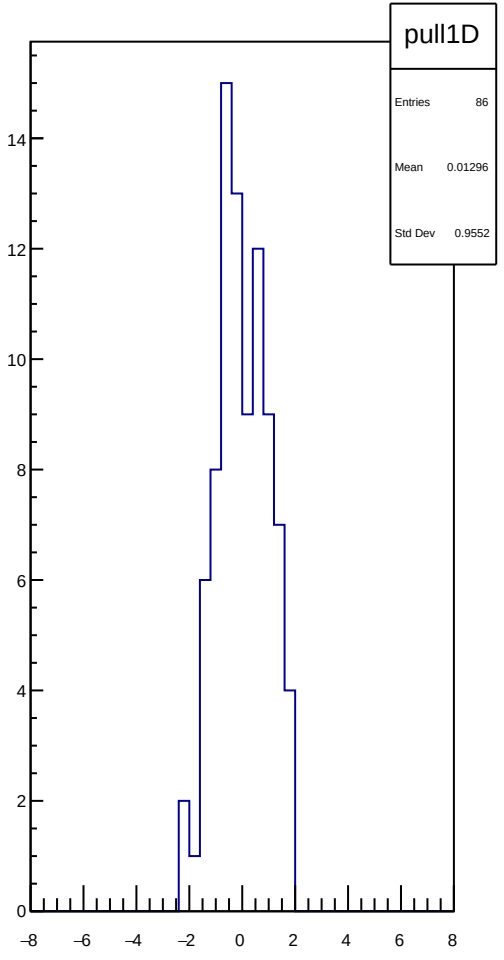

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 85
p0 55.28 ± 0.04497
160
140
120
100
80
60
40
20

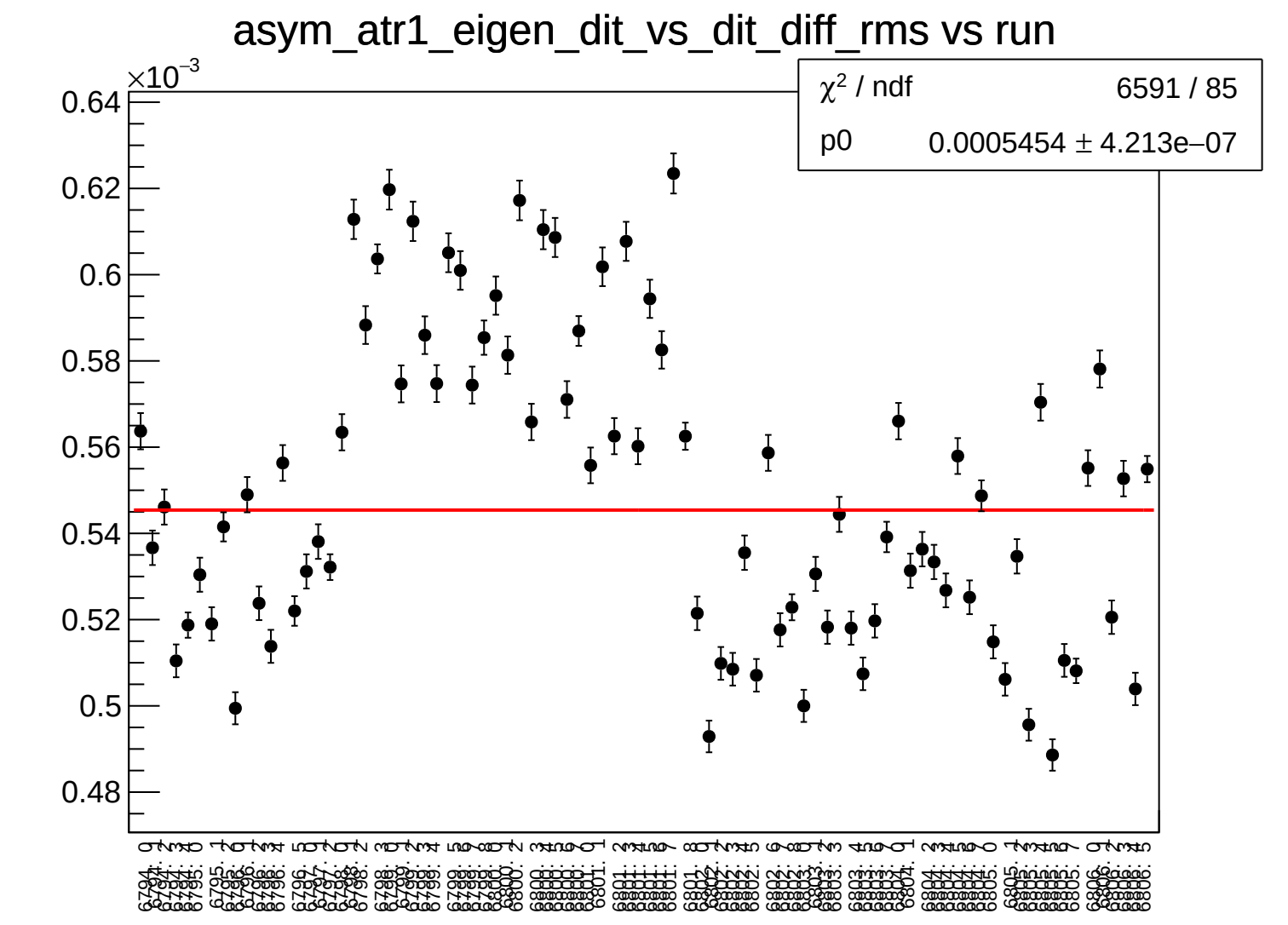

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.0974 ± 0.06359
pull
Entries 86
Mean 127
Std Dev 0

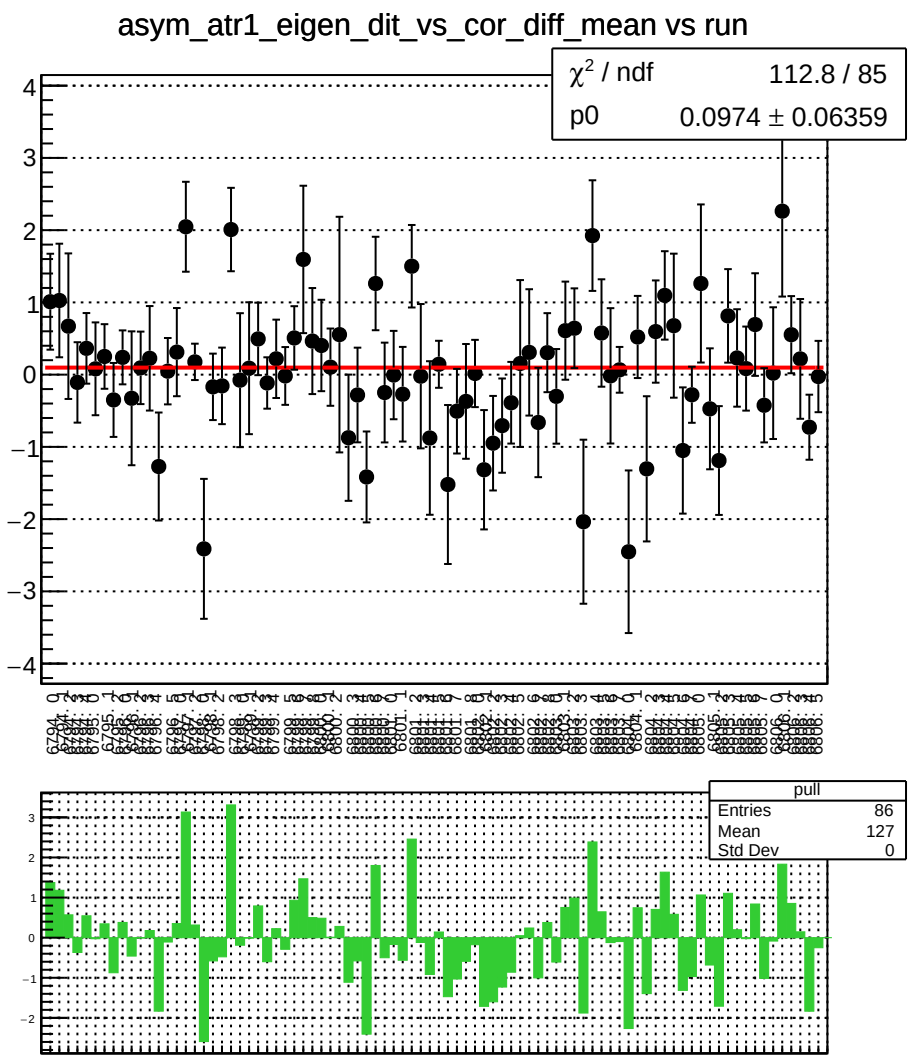

pull1D
Entries 86
Mean −0.03213
Std Dev 1.145

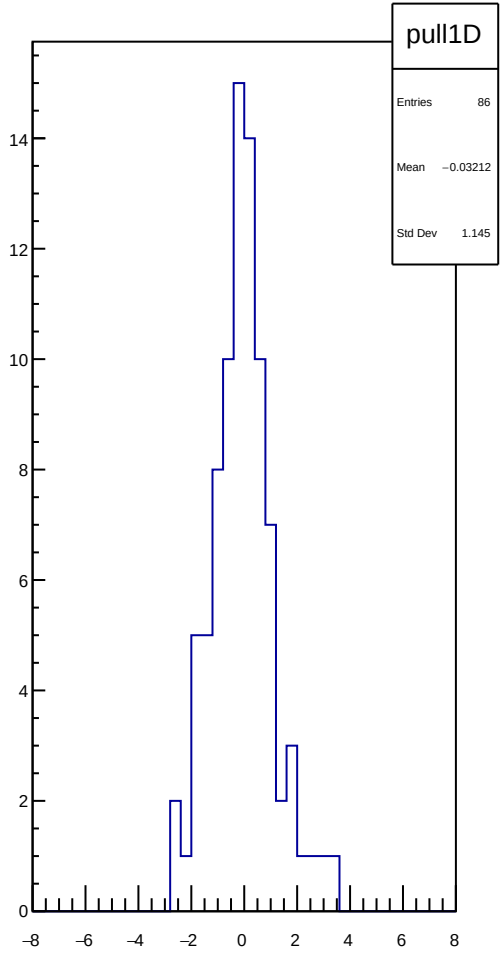

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 85
p0 55.28 ± 0.04497
160
140
120
100
80
60
40
20

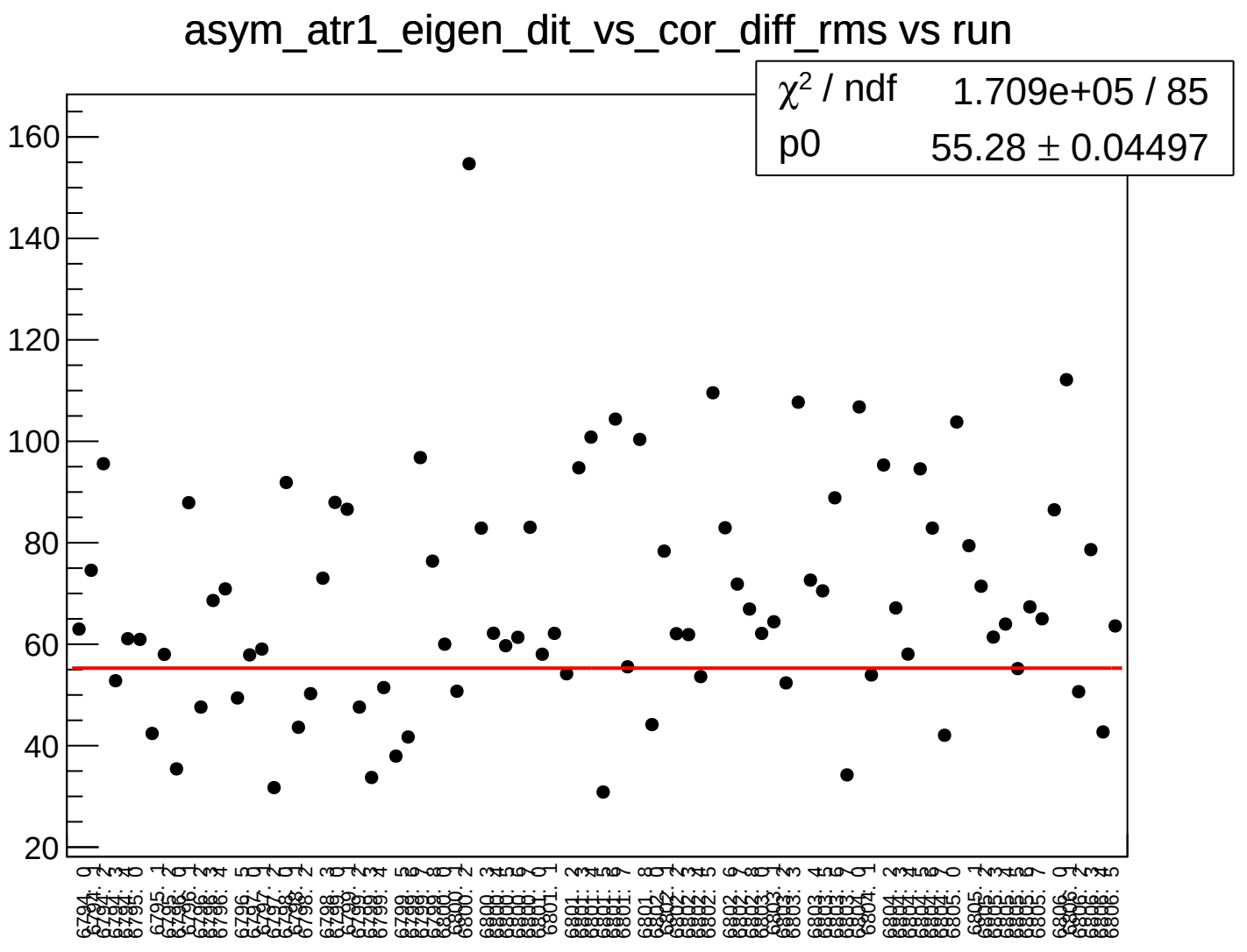

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 78.48 / 85
p0 1.207e−07 ± 5.958e−07
pull
Entries 86
Mean −38.39
Std Dev 0

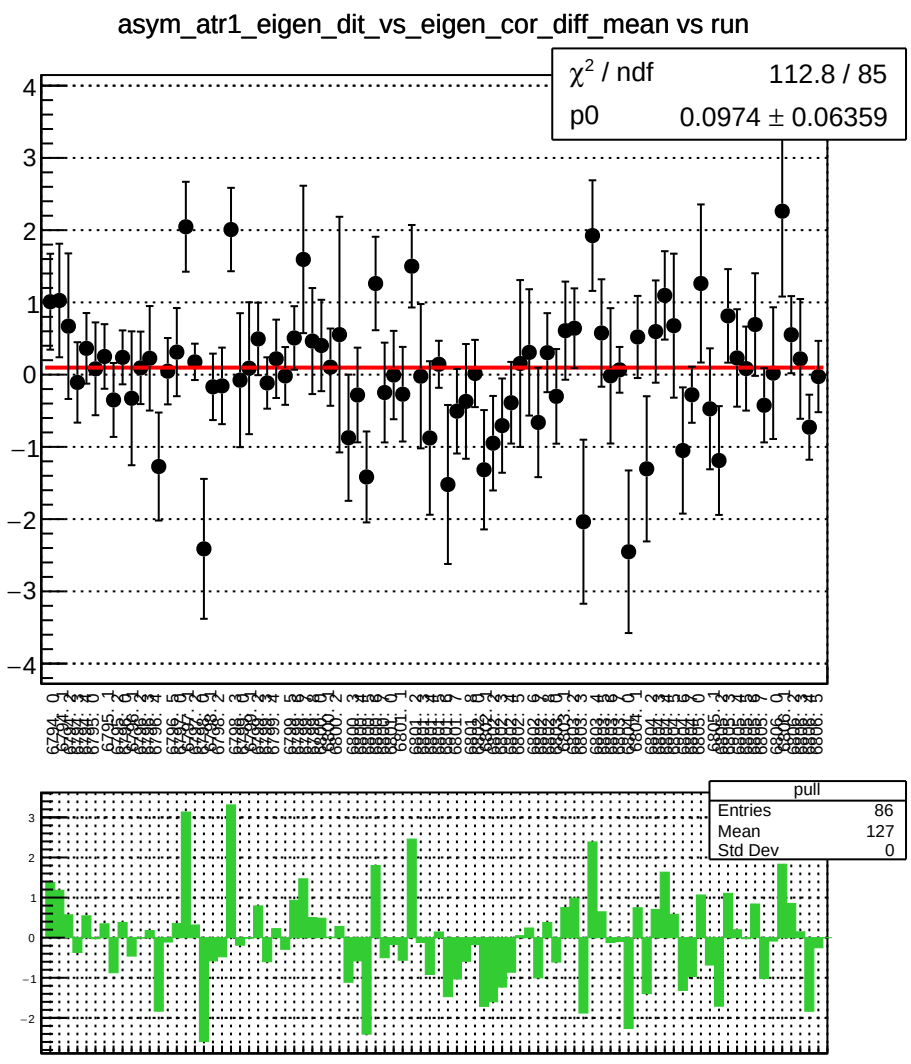

pull1D
Entries 86
Mean 0.01296
Std Dev 0.9552

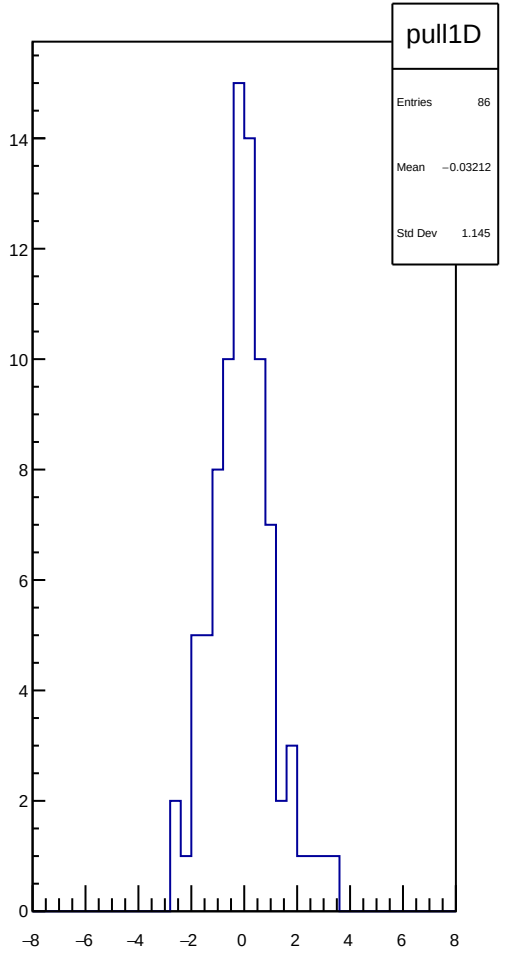

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 6591 / 85
p0 0.0005454 ± 4.213e−07
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

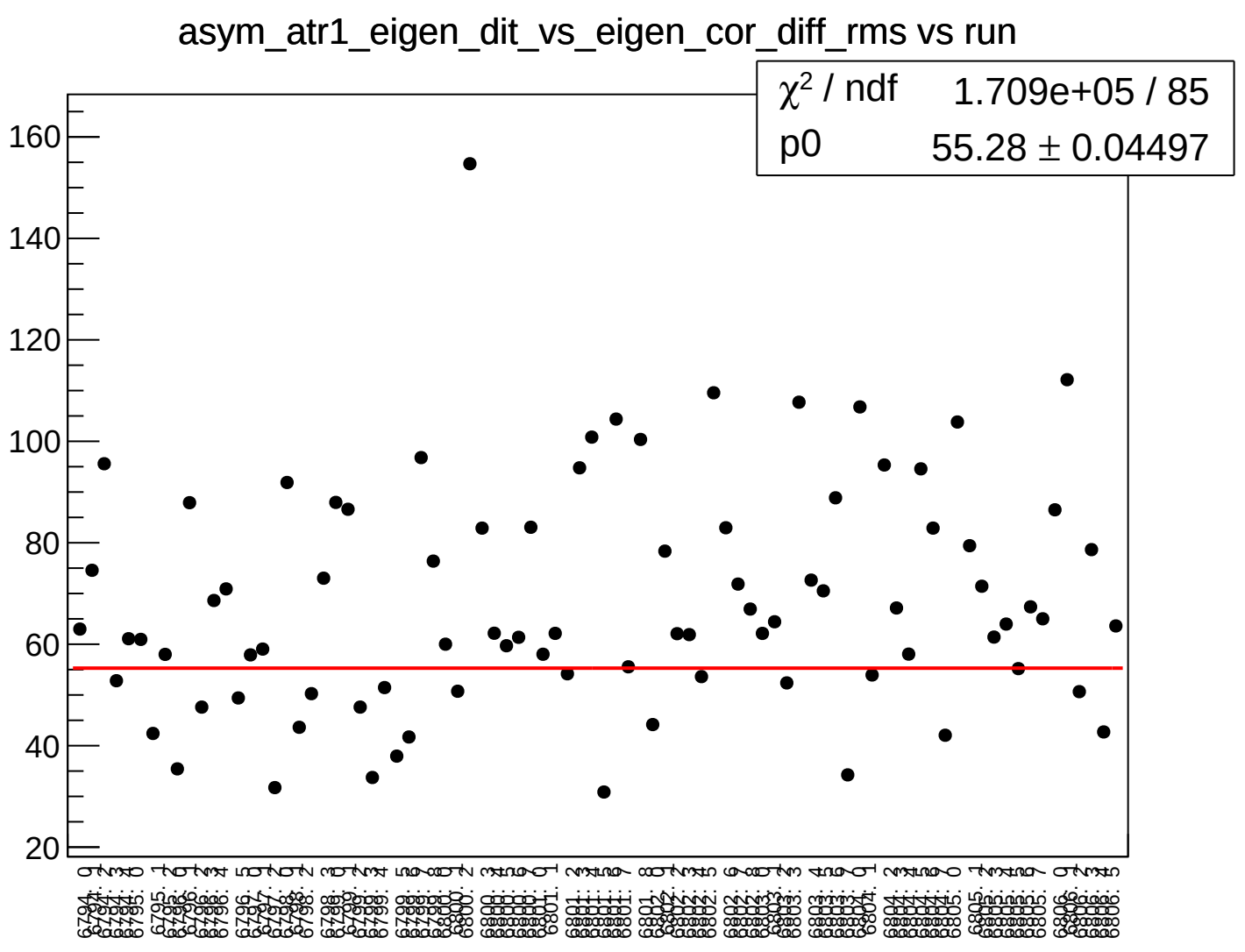

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.0974 ± 0.06359
pull
Entries 86
Mean 127
Std Dev 0

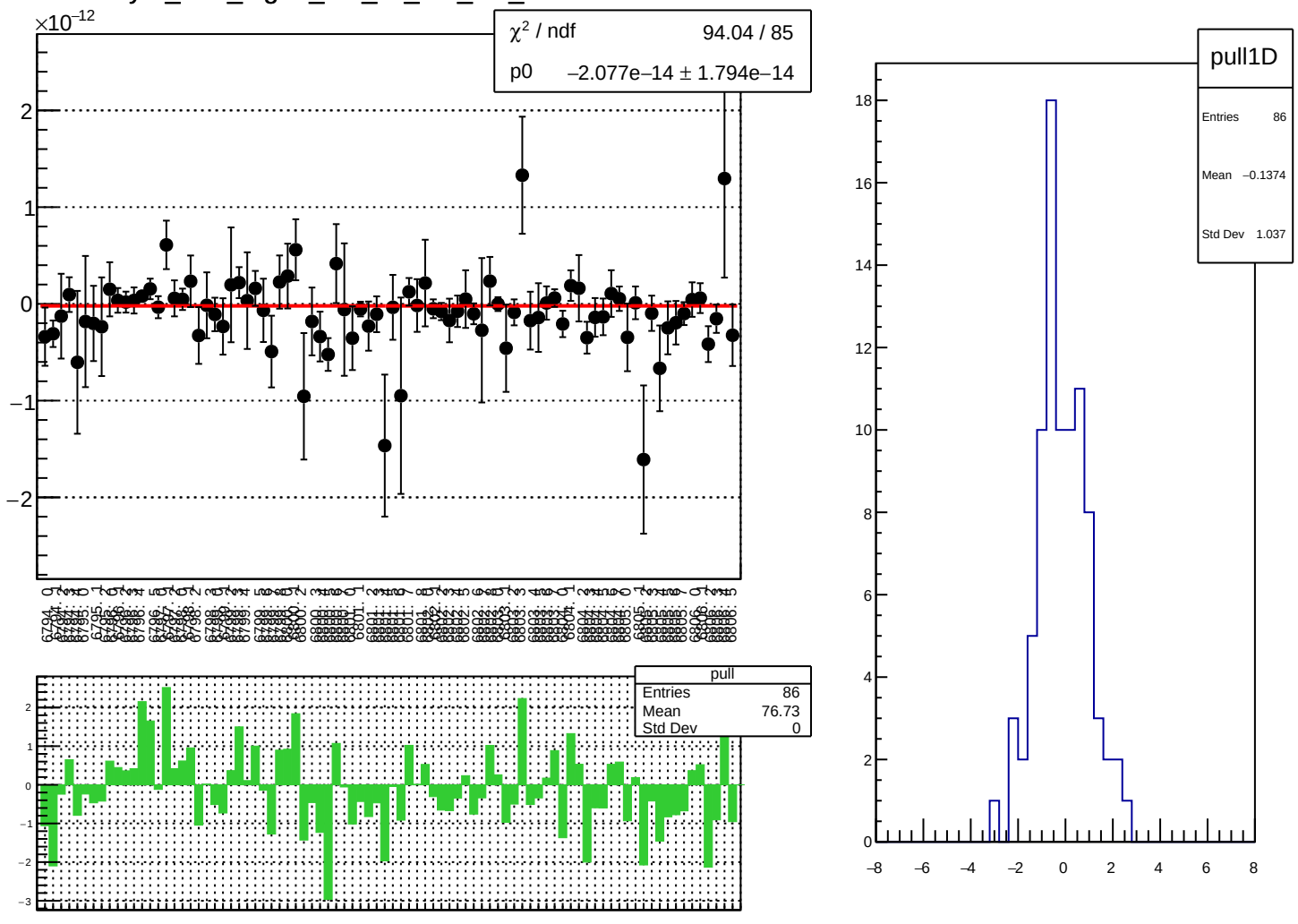

pull1D
Entries 86
Mean −0.03212
Std Dev 1.145

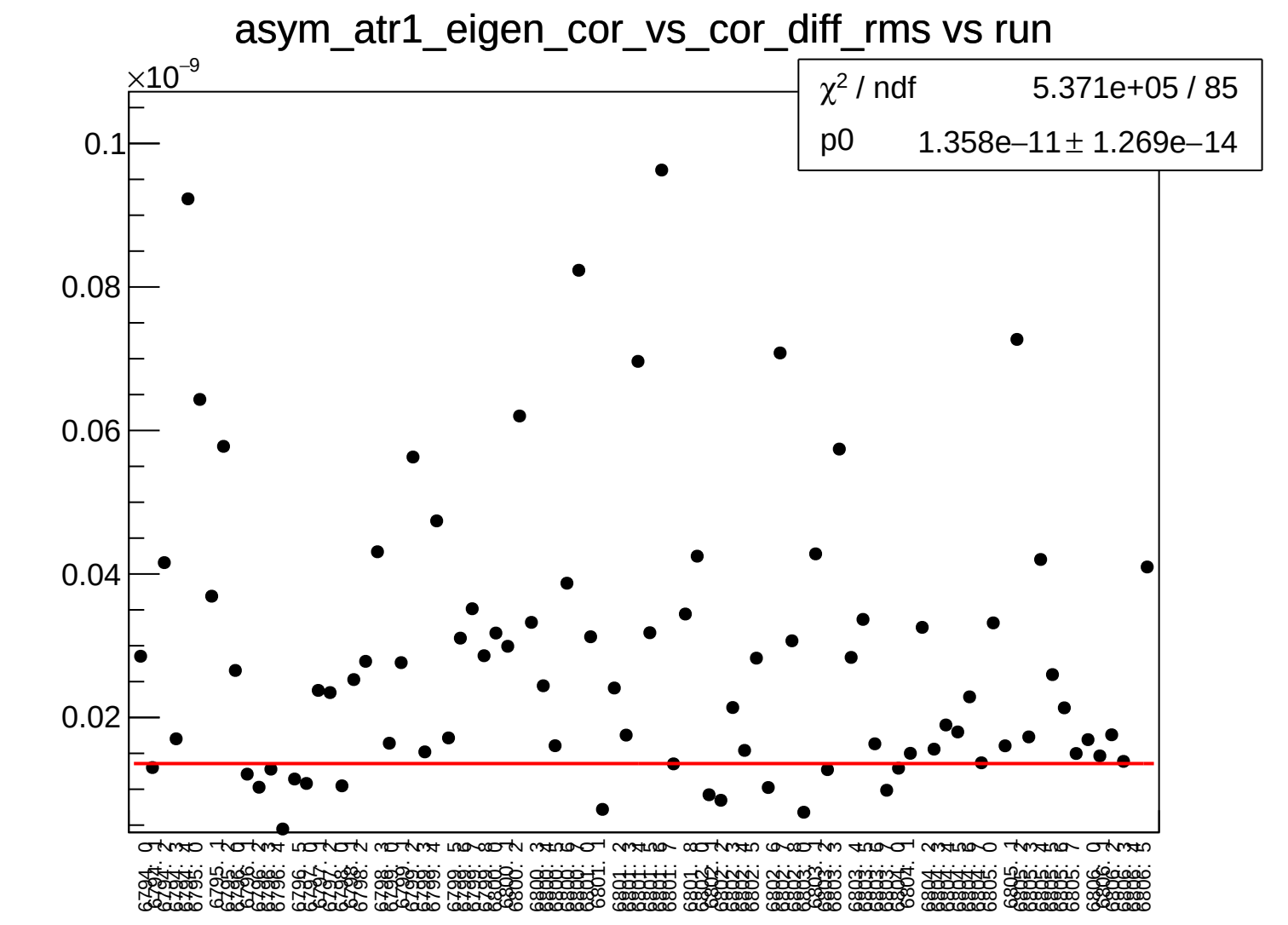

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 85
p0 55.28 ± 0.04497
160
140
120
100
80
60
40
20

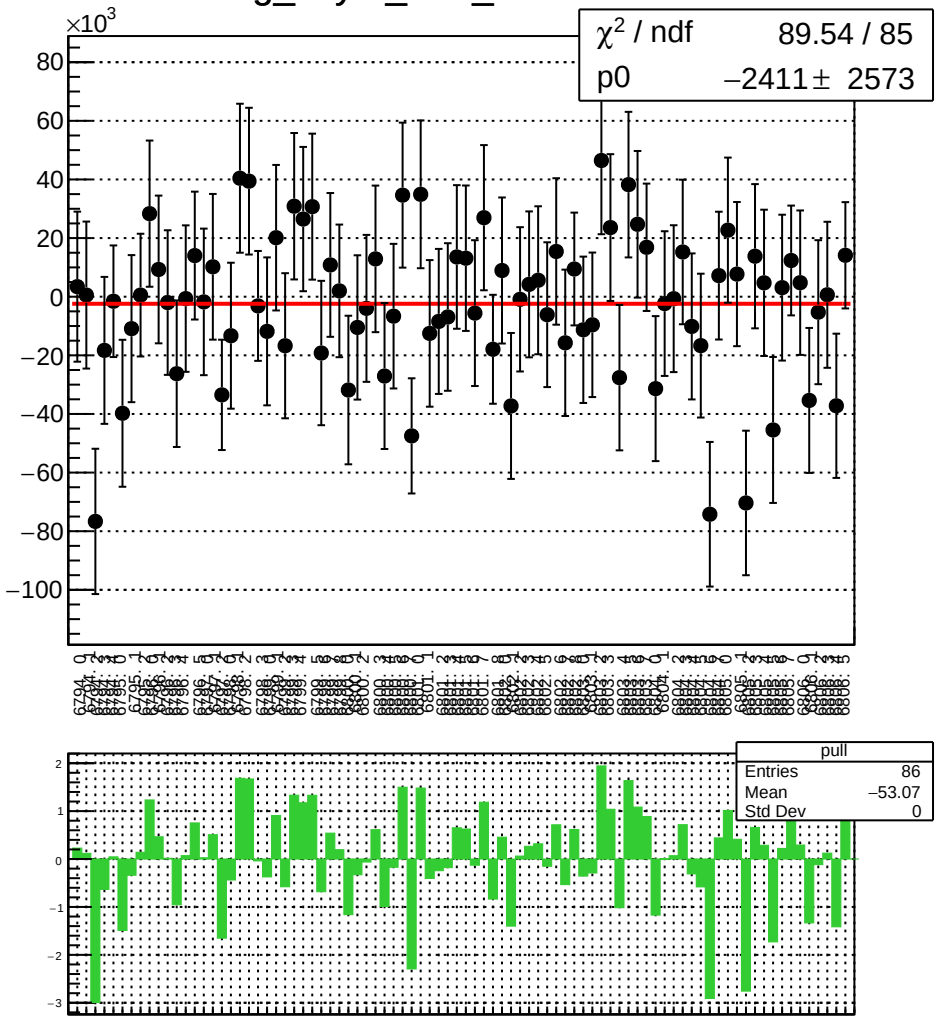

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.8 / 85
p0 0.0974 ± 0.06359
pull
Entries 86
Mean 127
Std Dev 0

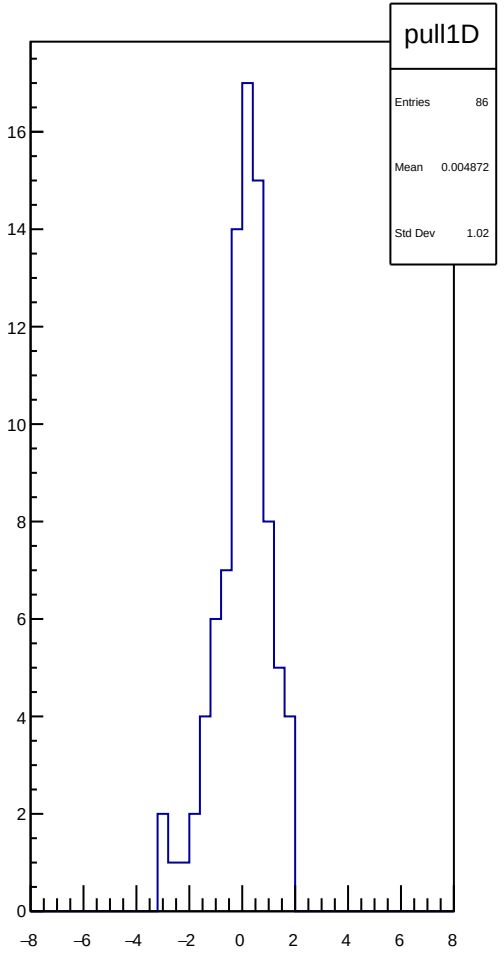

pull1D
Entries 86
Mean −0.03212
Std Dev 1.145

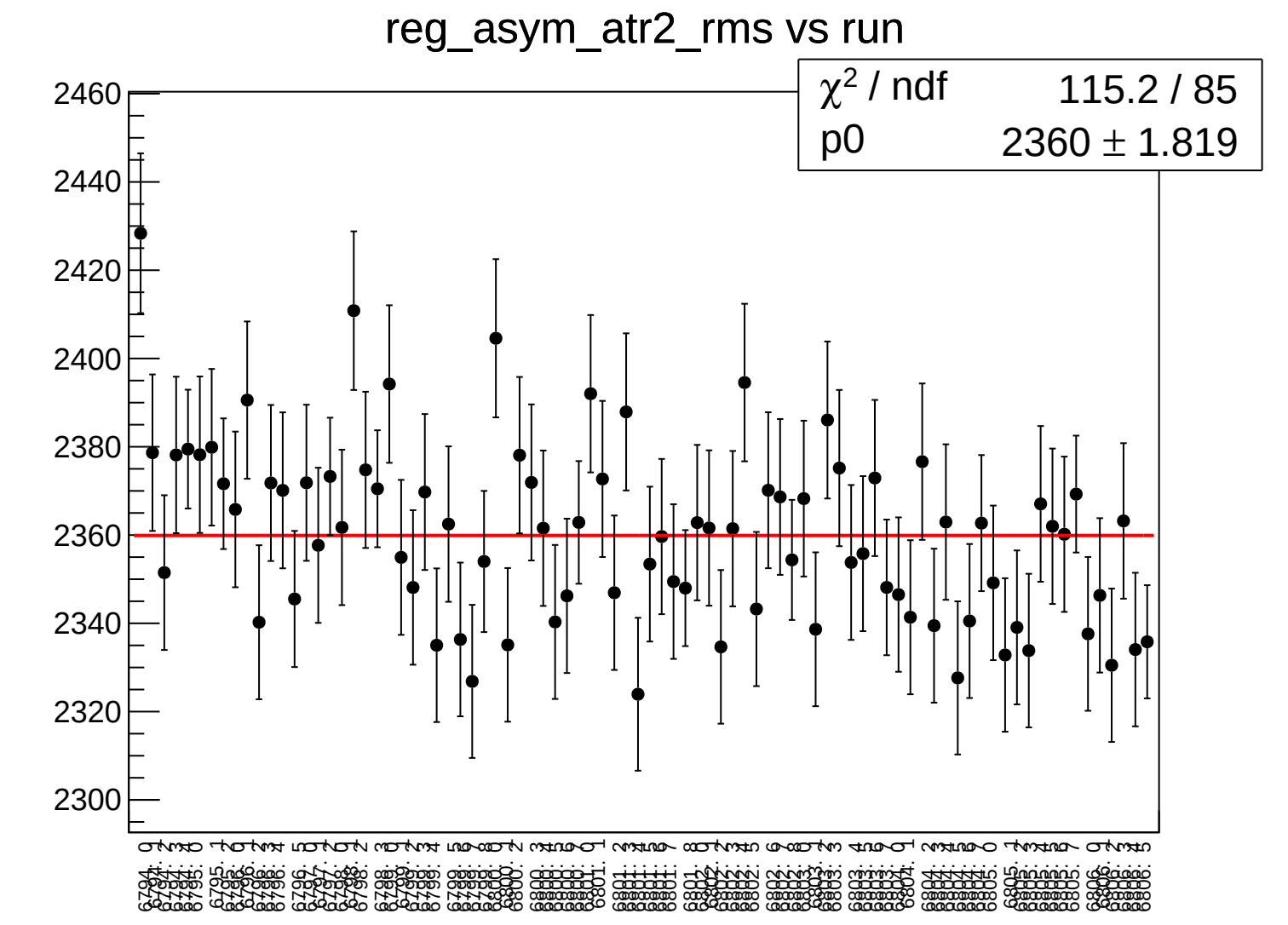

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.709e+05 / 85
p0 55.28 ± 0.04497
160
140
120
100
80
60
40
20

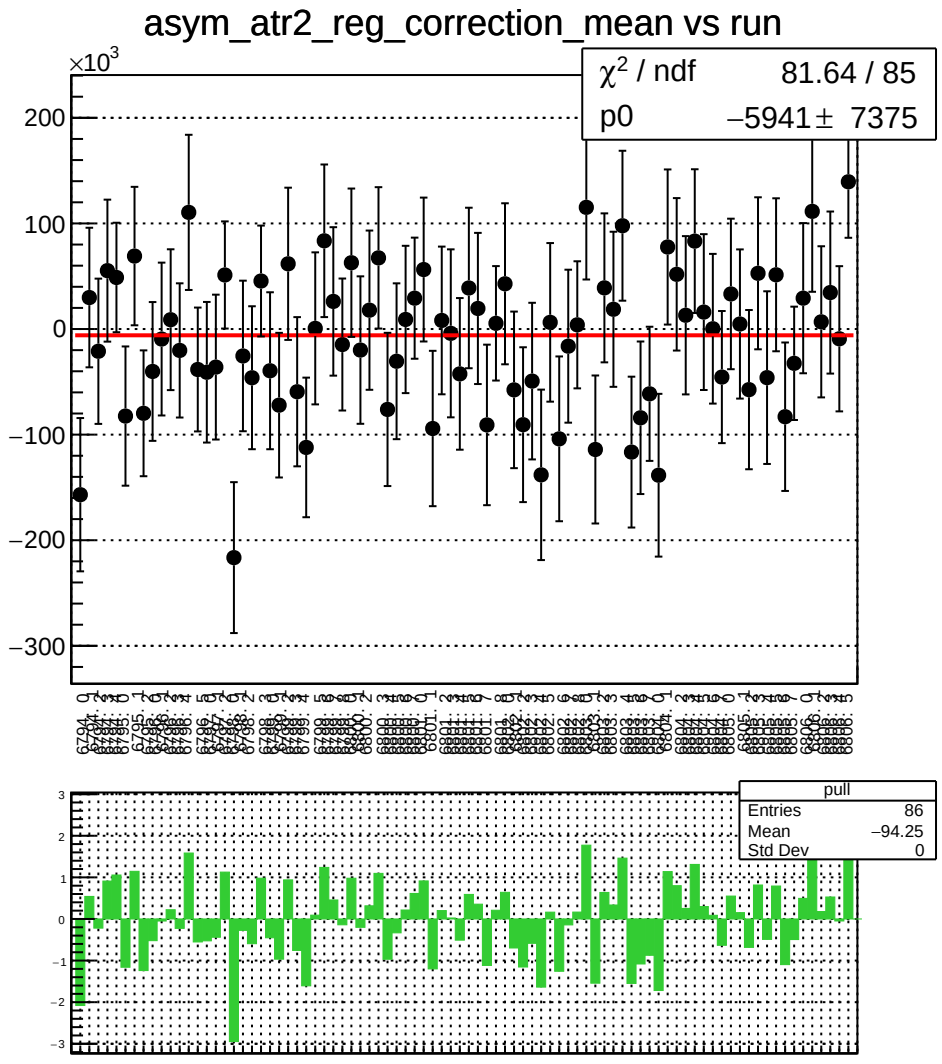

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.04 / 85
p0 −2.077e−14 ± 1.794e−14
pull
Entries 86
Mean 76.73
Std Dev 0
pull1D
Entries 86
Mean −0.1374
Std Dev 1.037

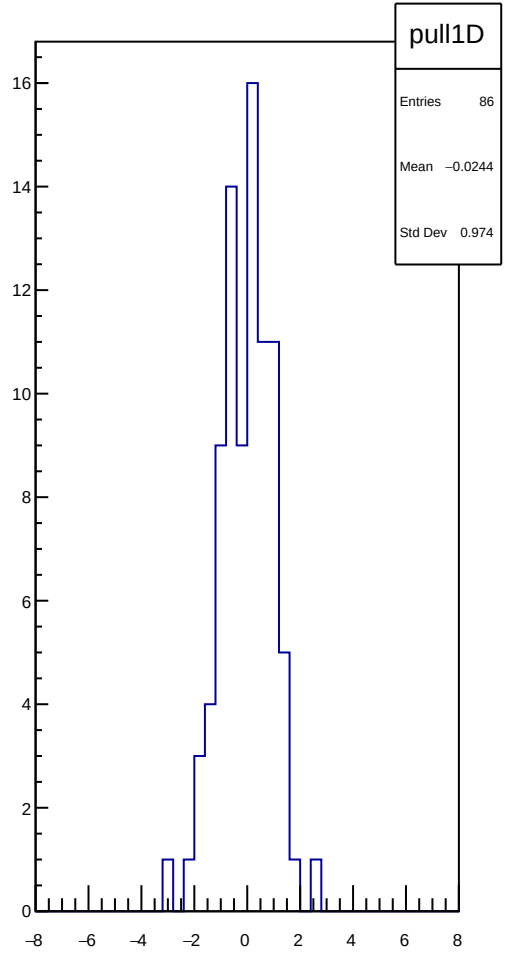

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.371e+05 / 85
p0 1.358e−11 ± 1.269e−14

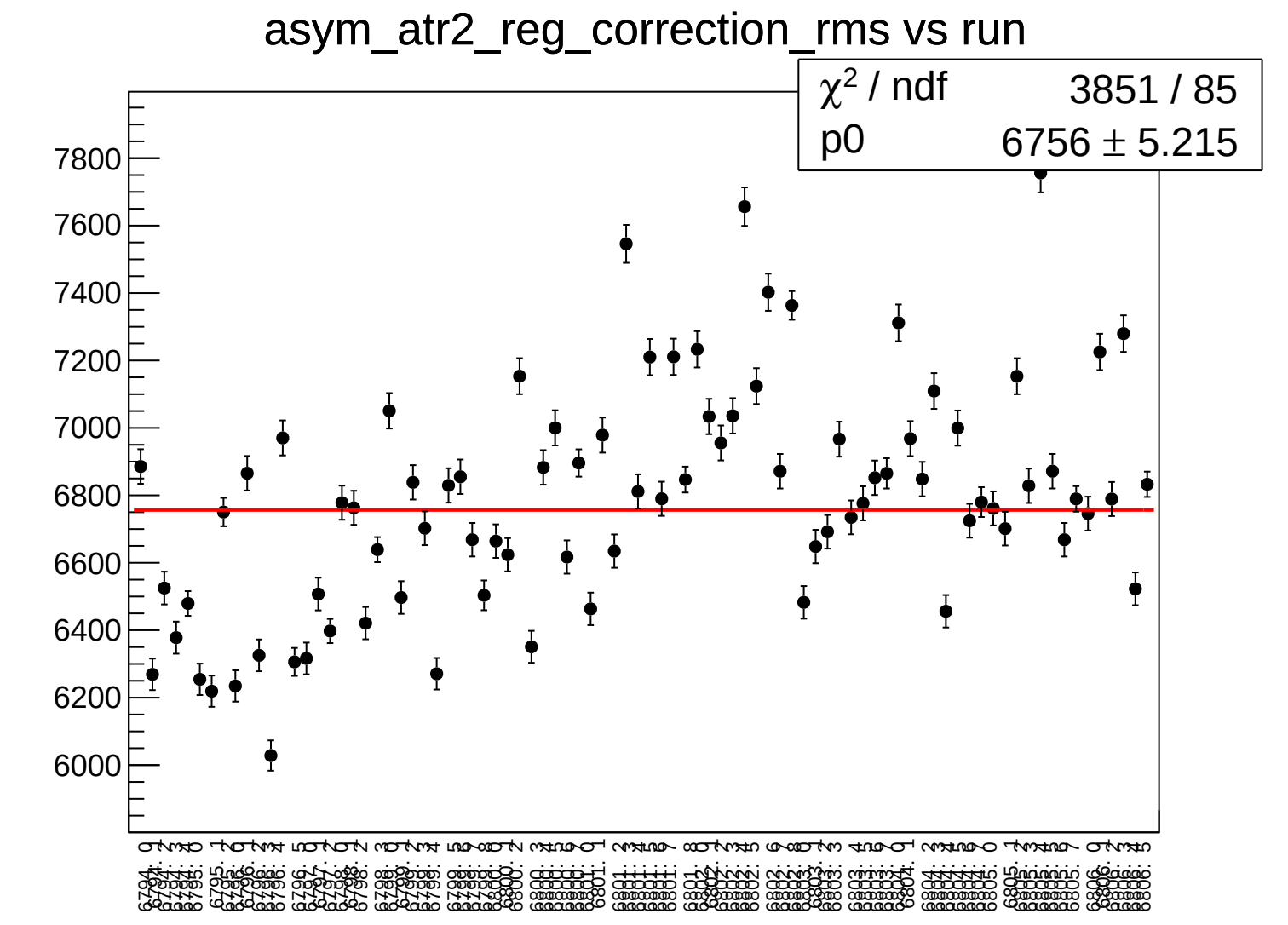

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 89.54 / 85
p0 −2411 ± 2573
pull
Entries 86
Mean −53.07
Std Dev 0

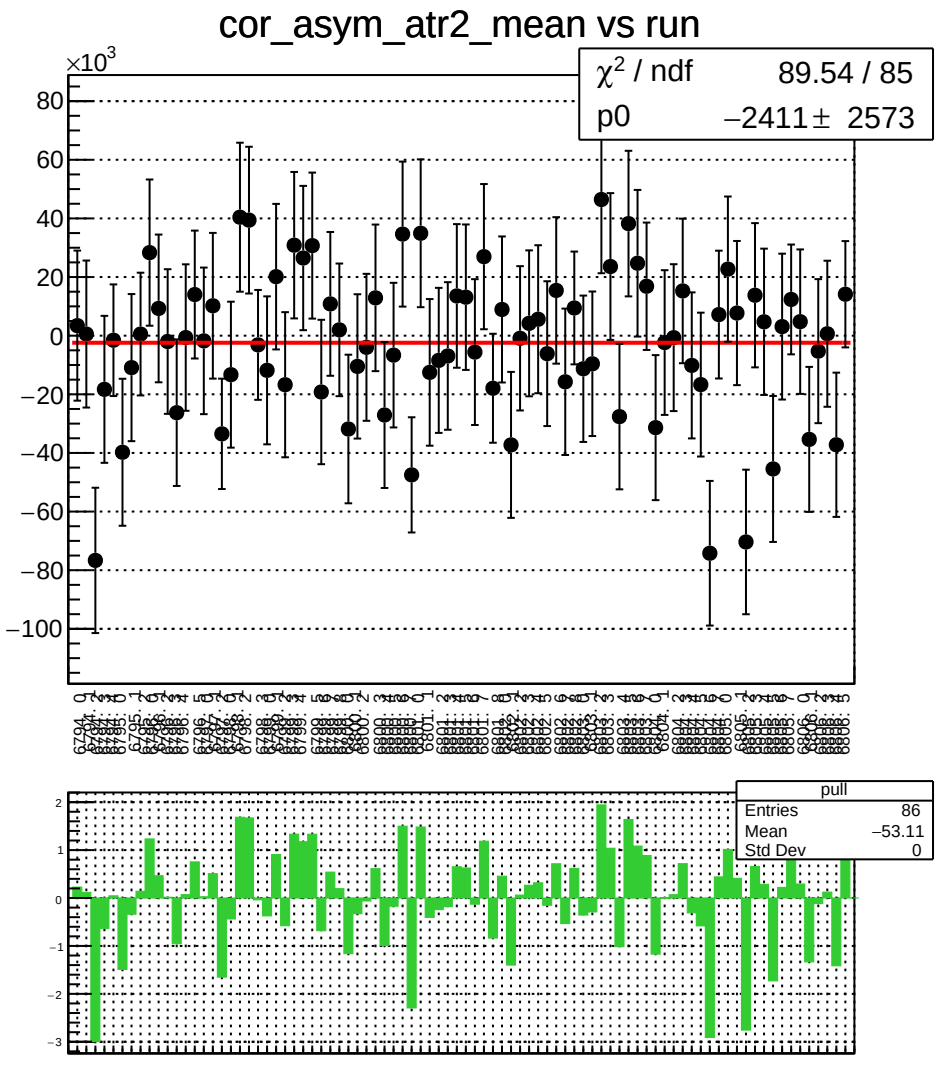

pull1D
Entries 86
Mean 0.004872
Std Dev 1.02

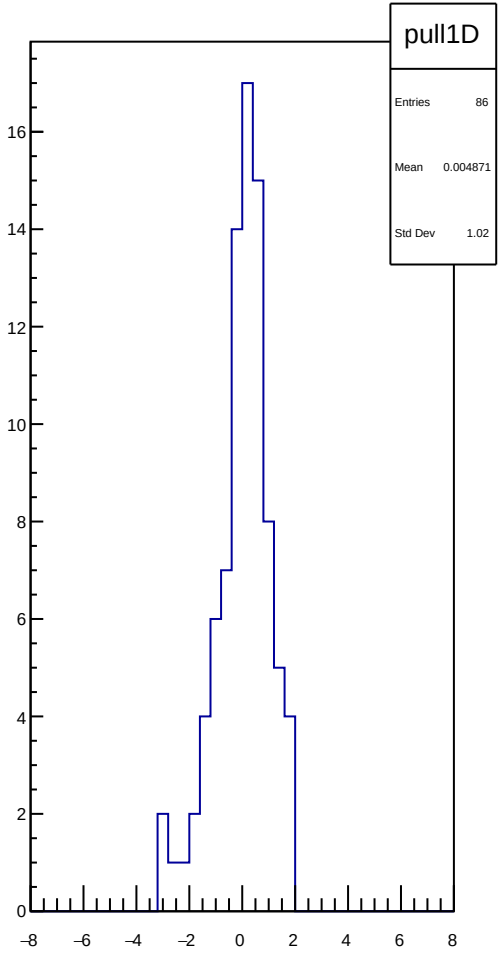

reg_asym_atr2_rms vs run
χ^2 / ndf 115.2 / 85
p0 2360 ± 1.819
2460
2440
2420
2400
2380
2360
2340
2320
2300

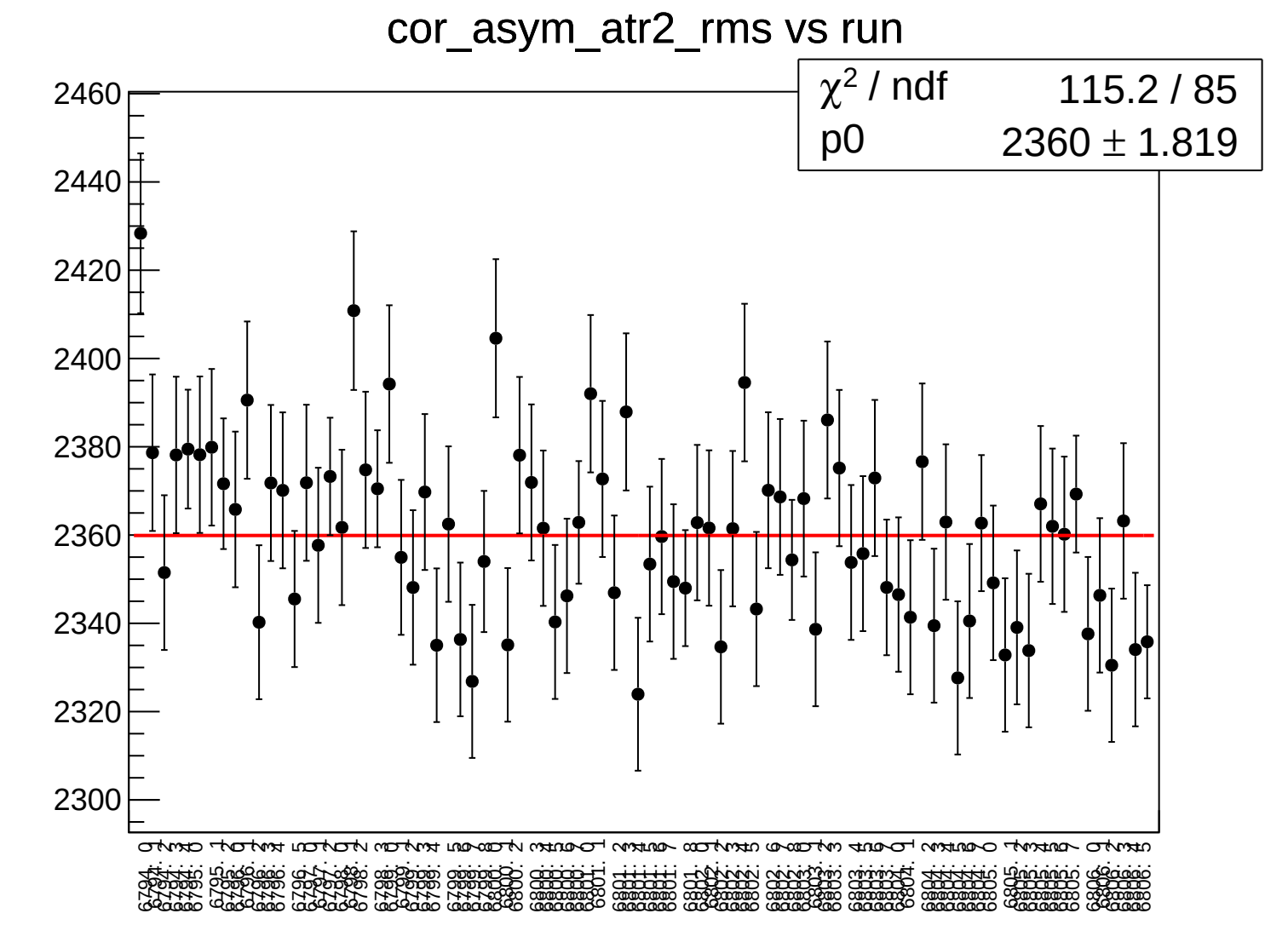

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 81.64 / 85
p0 −5941 ± 7375
200
100
0
−100
−200
−300
pull
Entries 86
Mean −94.25
Std Dev 0
3
2
1
0
−1
−2
−3

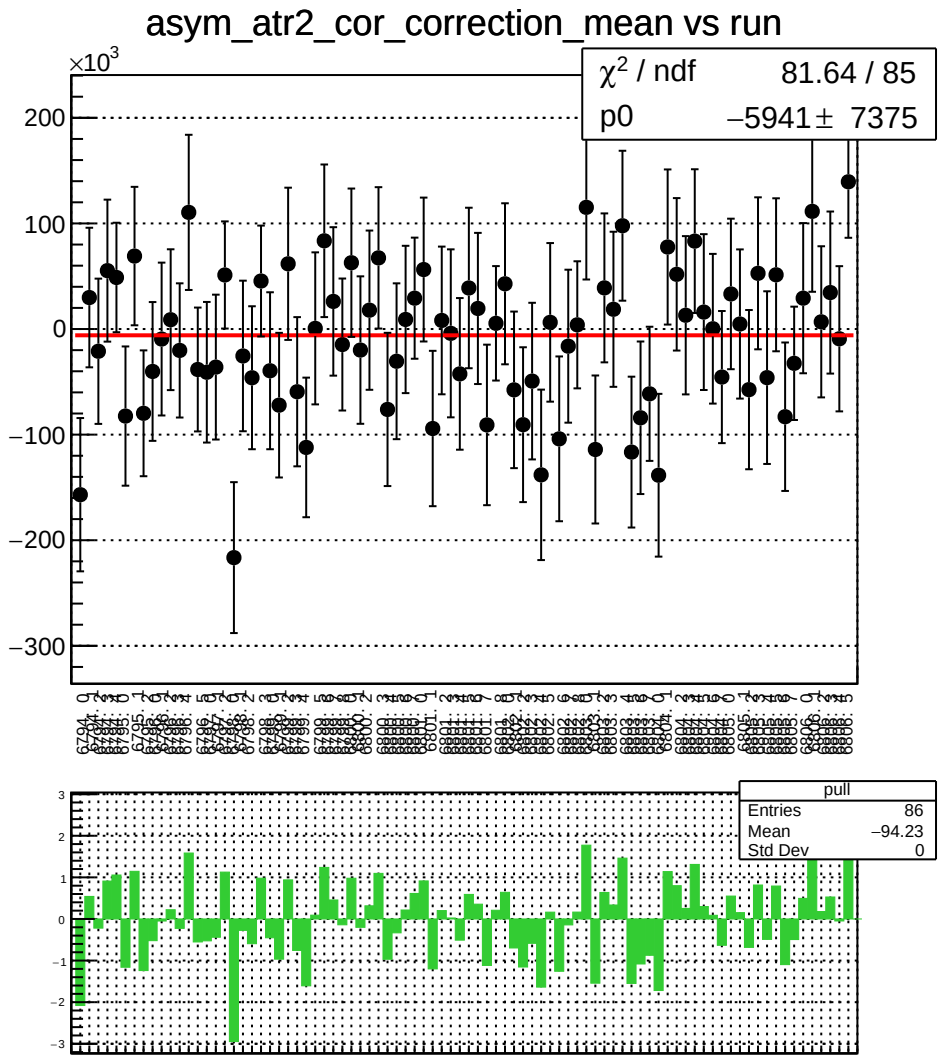

pull1D
Entries 86
Mean −0.0244
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

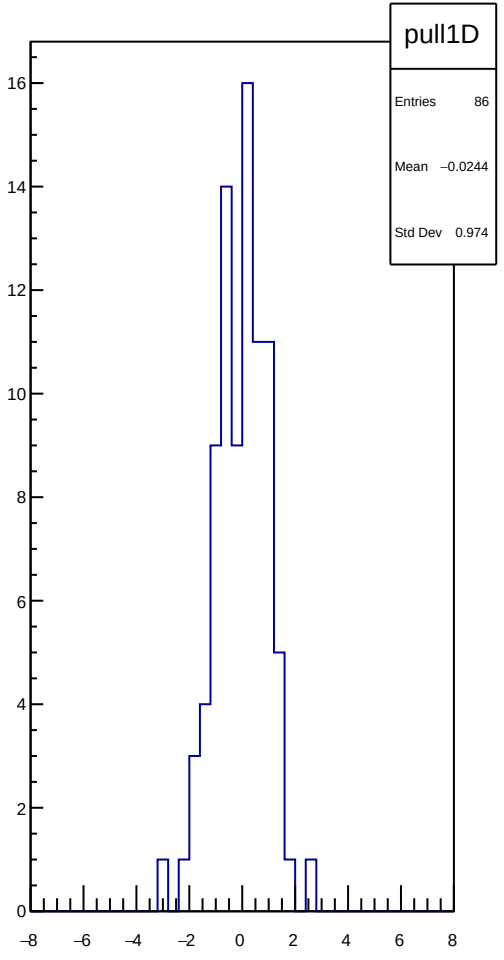

asym_atr2_reg_correction_rms vs run
χ^2 / ndf 3851 / 85
p0 6756 ± 5.215
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000

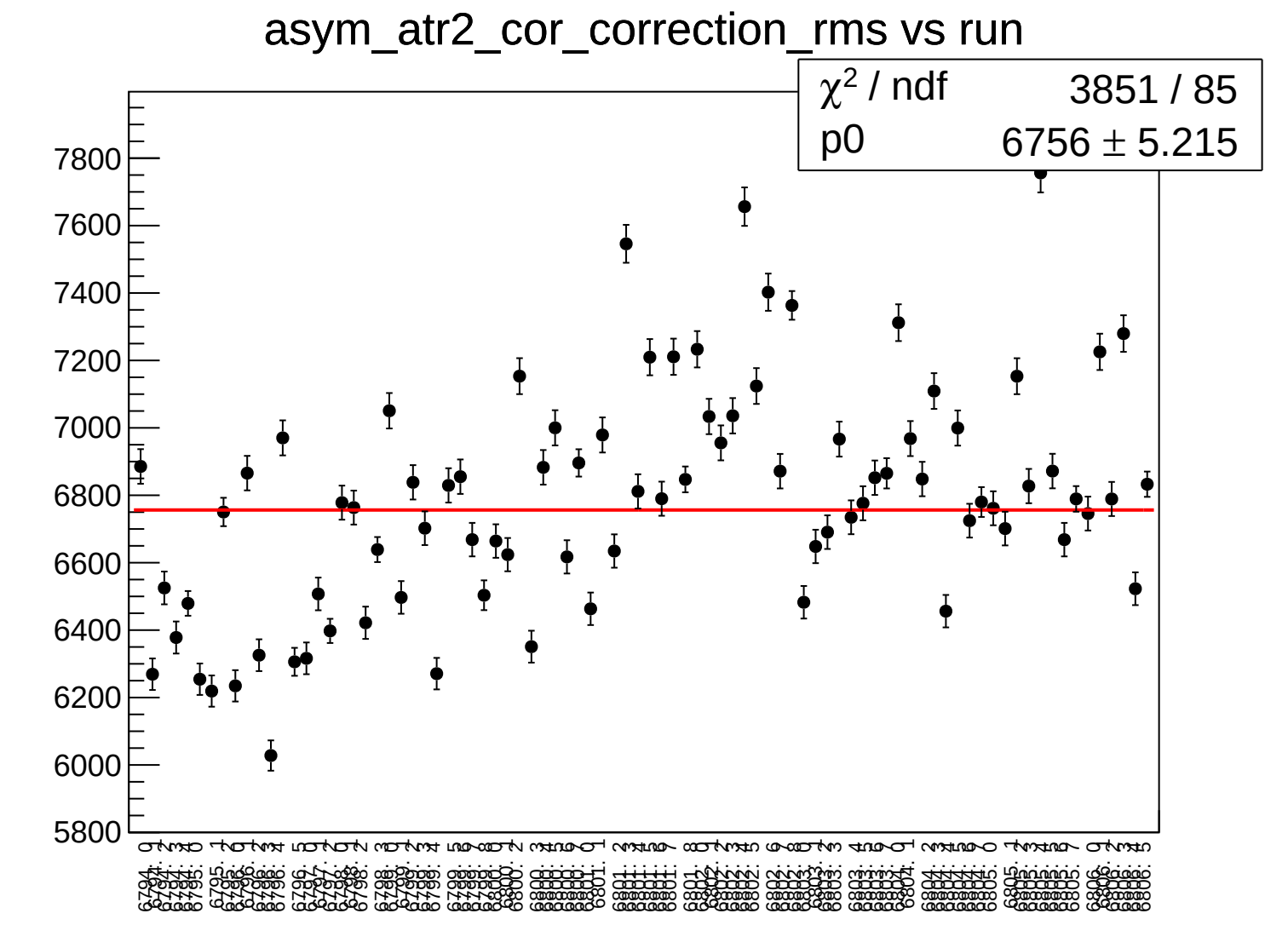

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 89.54 / 85
p0 −2411 ± 2573
pull
Entries 86
Mean −53.11
Std Dev 0

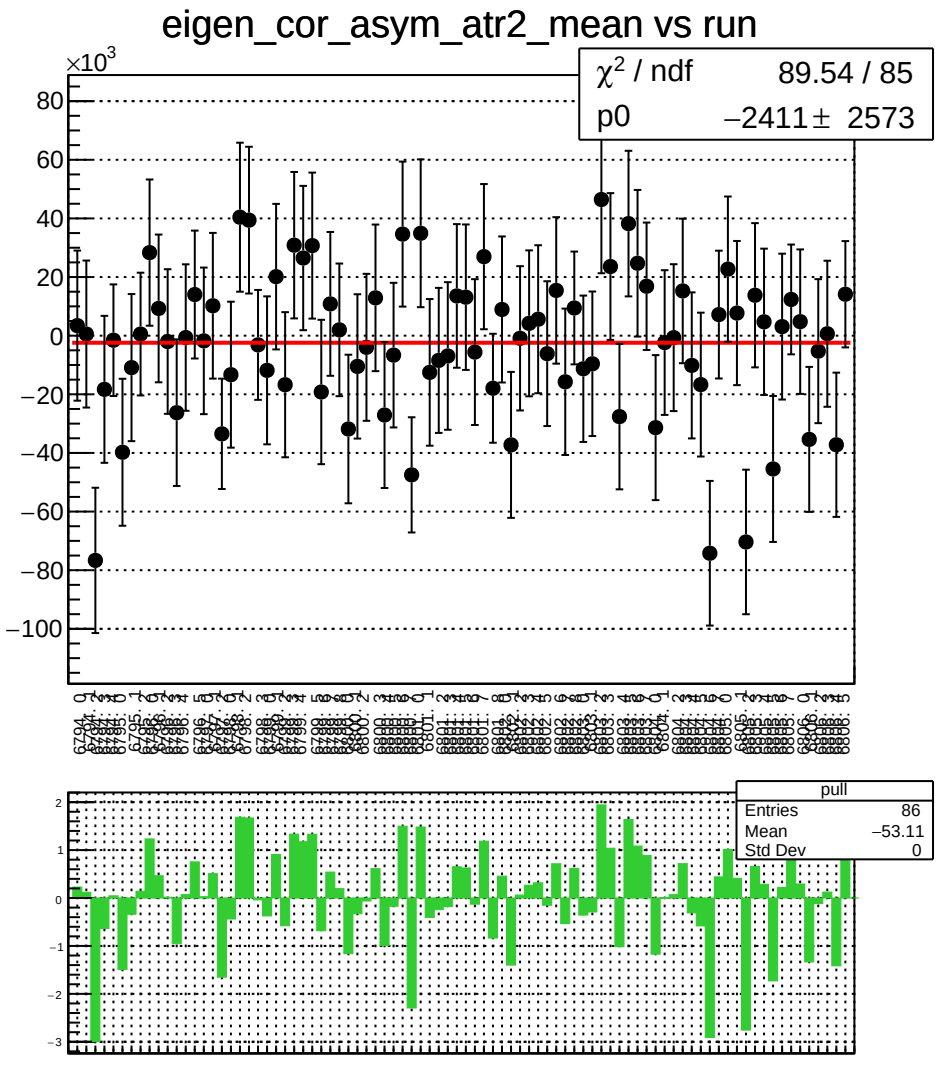

pull1D
Entries 86
Mean 0.004871
Std Dev 1.02

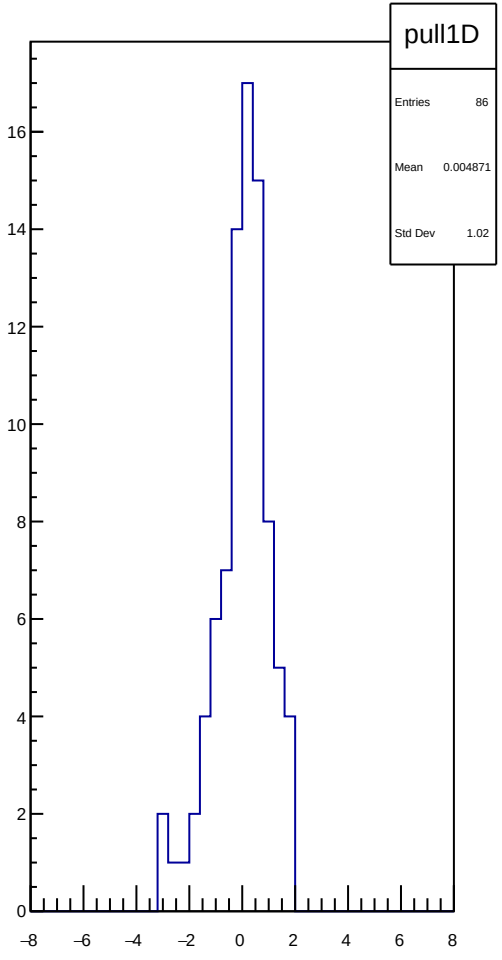

cor_asym_atr2_rms vs run
χ² / ndf 115.2 / 85
p0 2360 ± 1.819
2460
2440
2420
2400
2380
2360
2340
2320
2300

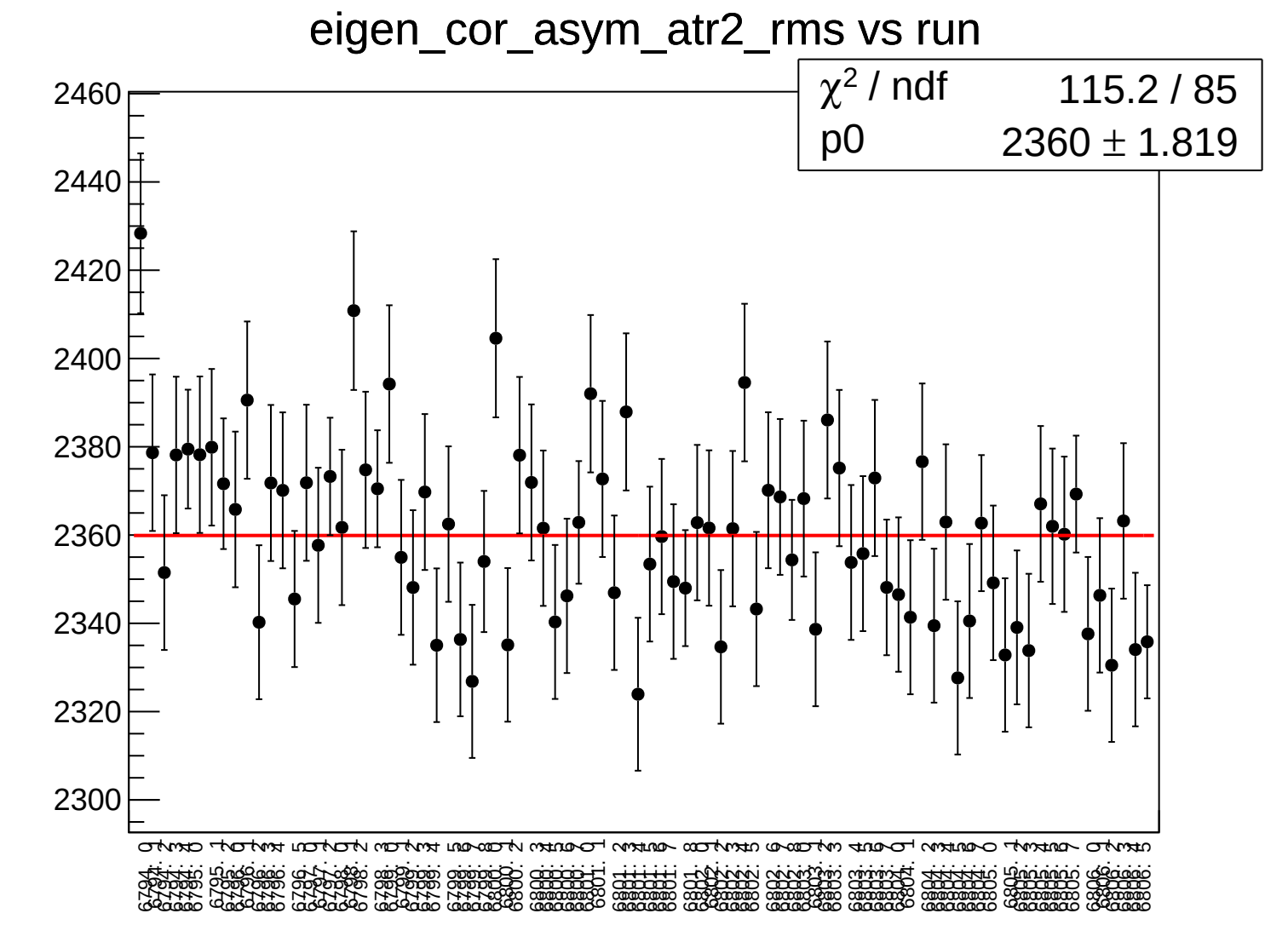

asym_atr2_cor_correction_mean vs run
χ² / ndf 81.64 / 85
p0 −5941 ± 7375
×10³
pull
Entries 86
Mean −94.23
Std Dev 0

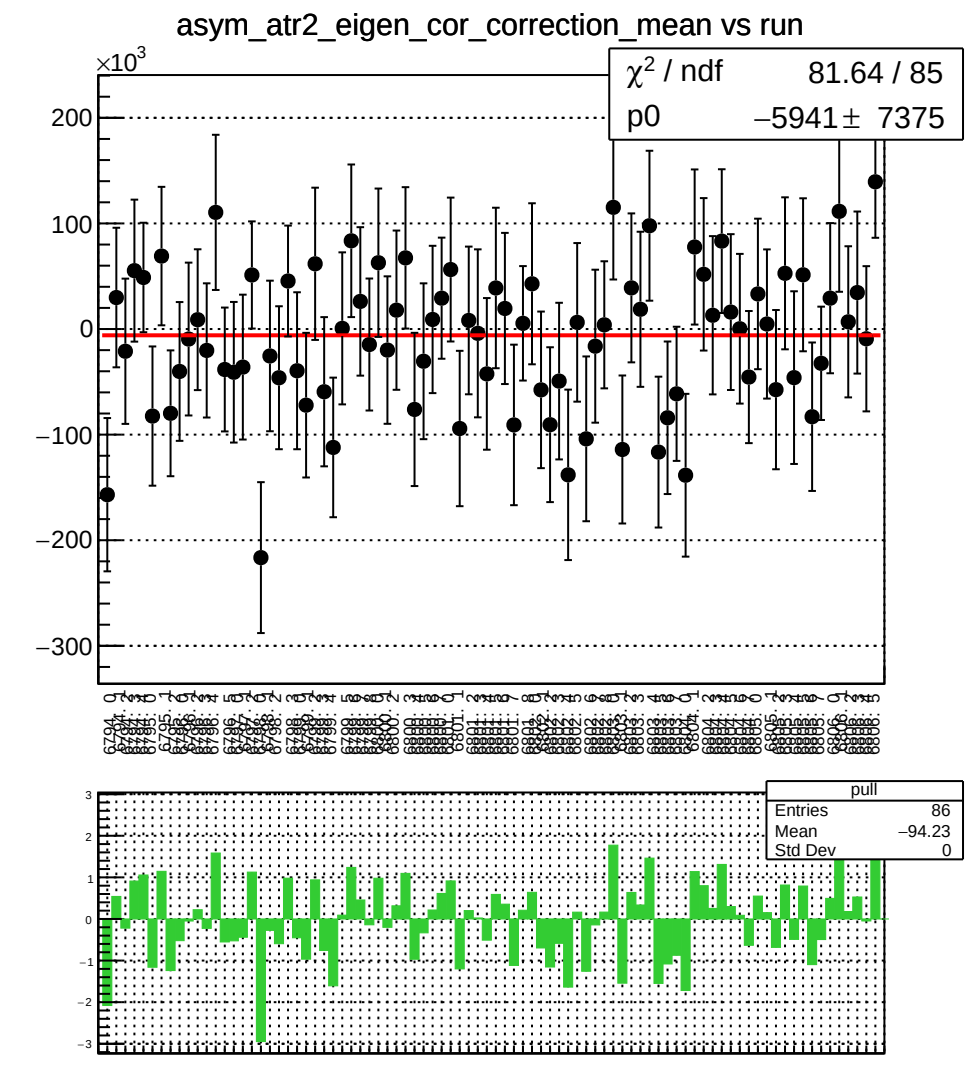

pull1D
Entries 86
Mean −0.0244
Std Dev 0.974

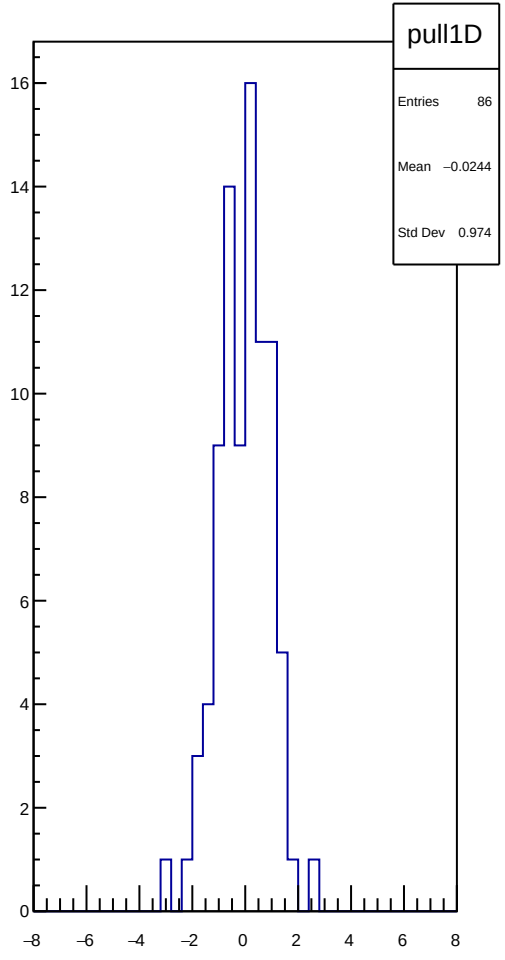

asym_atr2_cor_correction_rms vs run
χ^2 / ndf 3851 / 85
p0 6756 ± 5.215
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

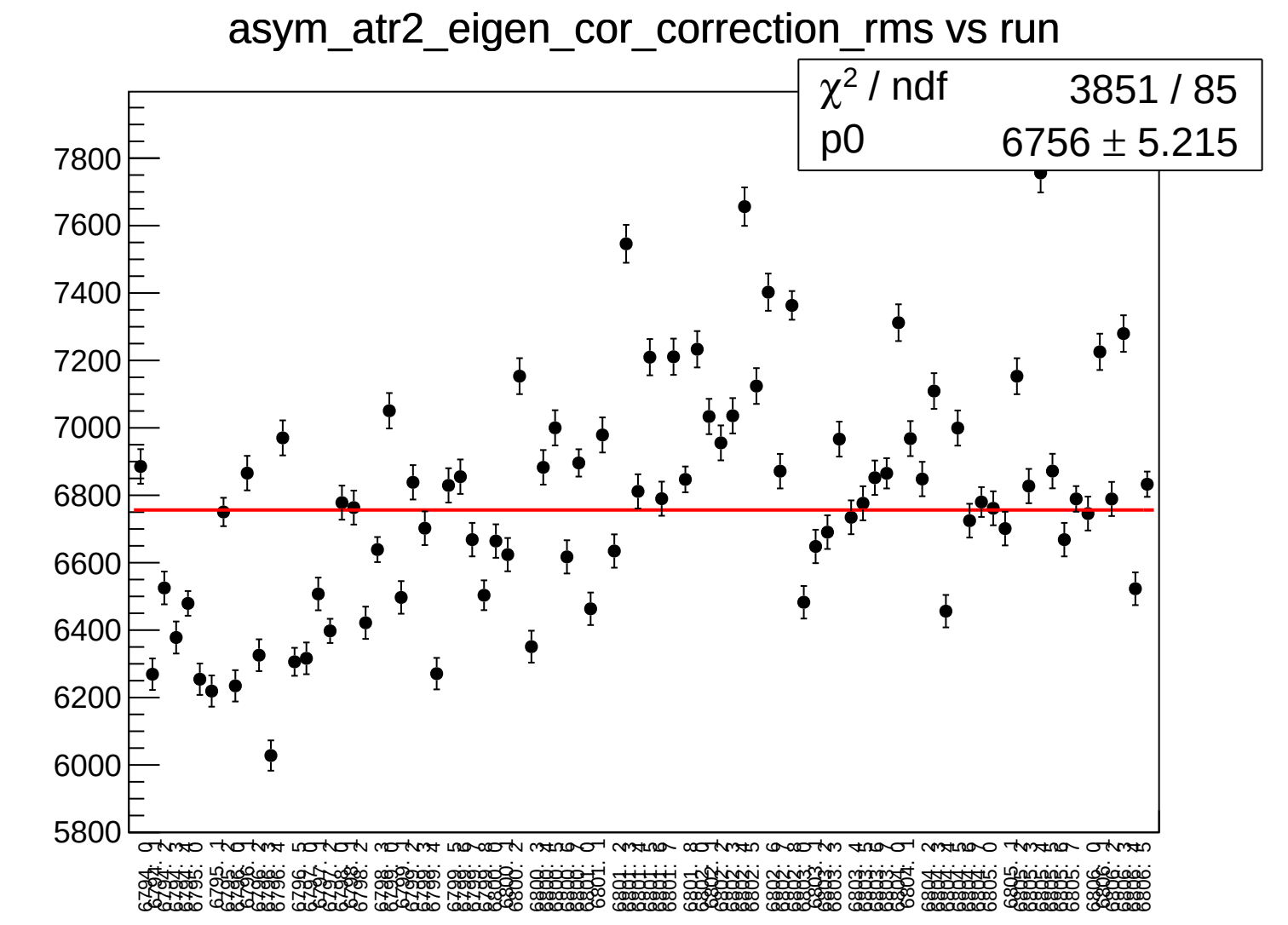

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 89.54 / 85
p0 −2411 ± 2573
pull
Entries 86
Mean −53.11
Std Dev 0

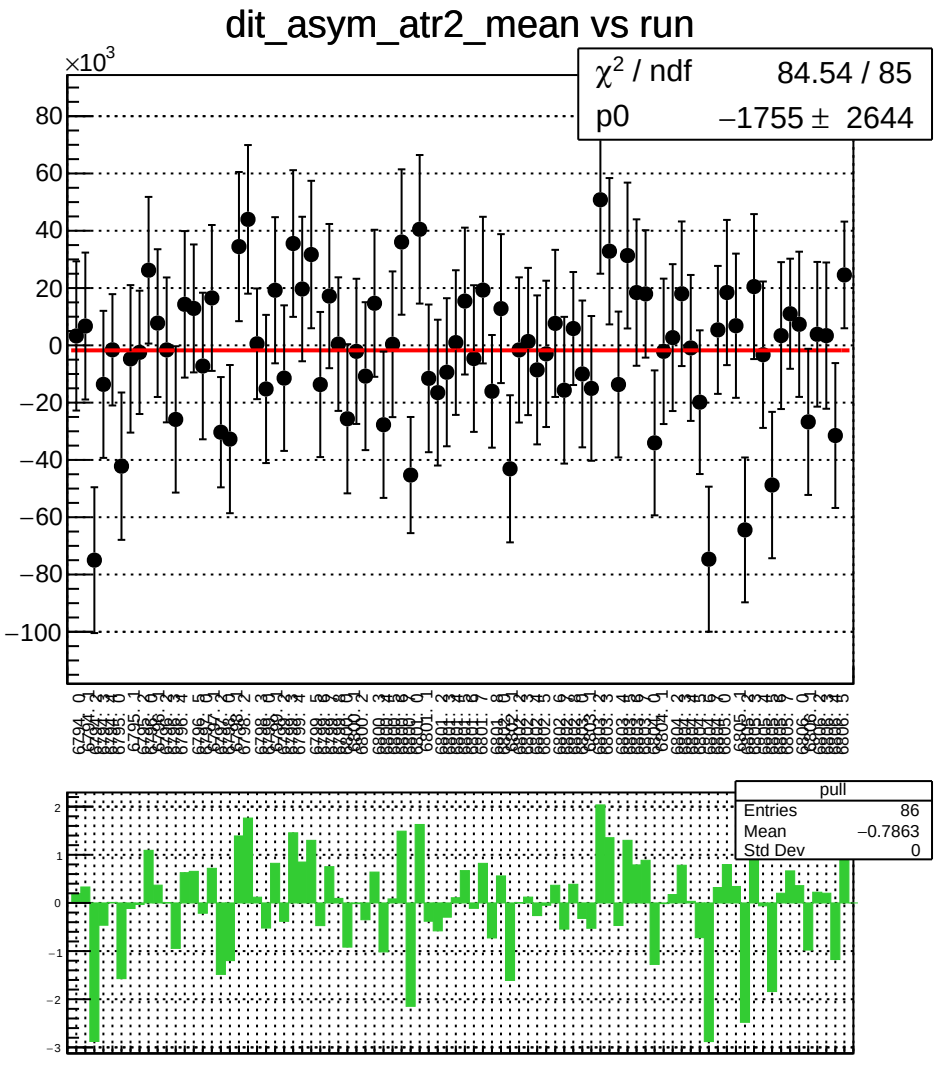

pull1D
Entries 86
Mean 0.004871
Std Dev 1.02

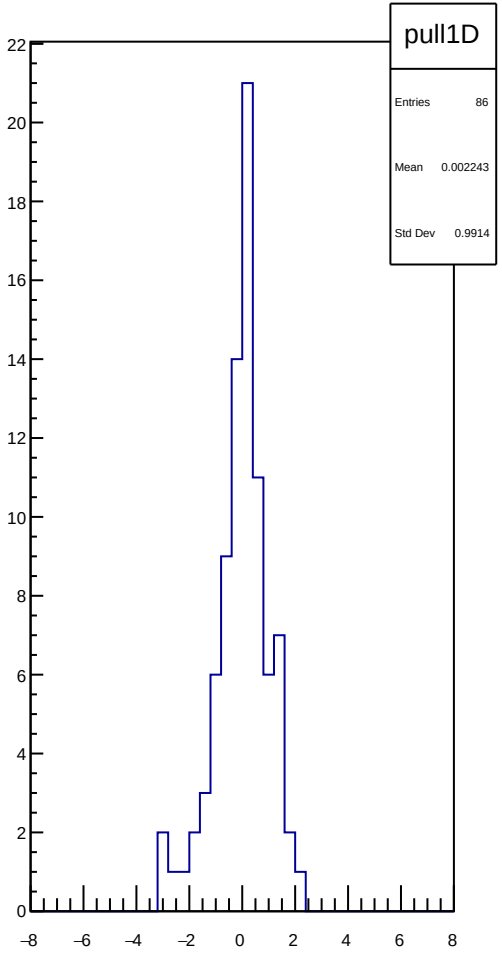

eigen_cor_asym_atr2_rms vs run
χ² / ndf 115.2 / 85
p0 2360 ± 1.819
2460
2440
2420
2400
2380
2360
2340
2320
2300

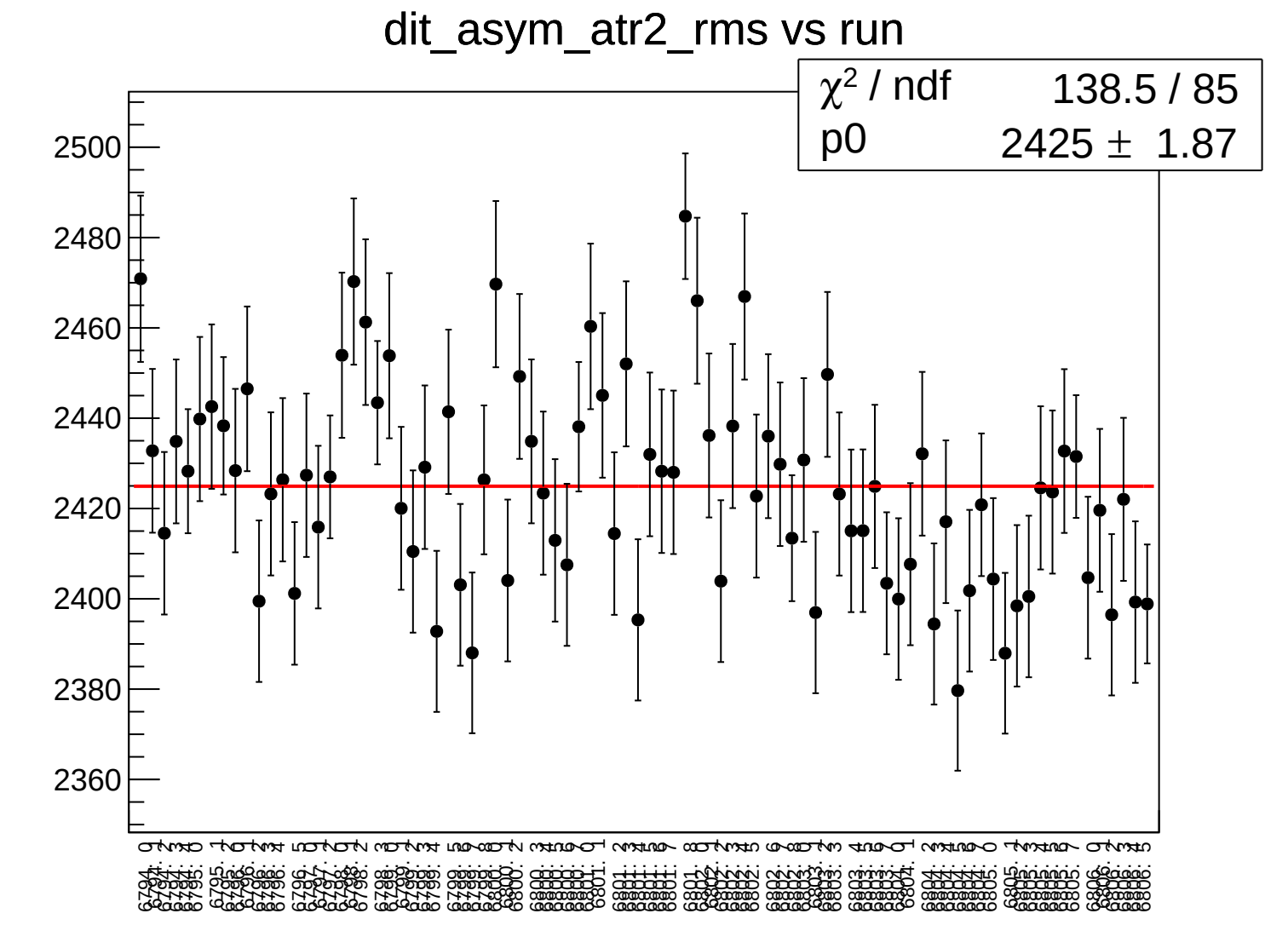

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.64 / 85
p0 −5941 ± 7375
200
100
0
−100
−200
−300
pull
Entries 86
Mean −94.23
Std Dev 0
3
2
1
0
−1
−2
−3

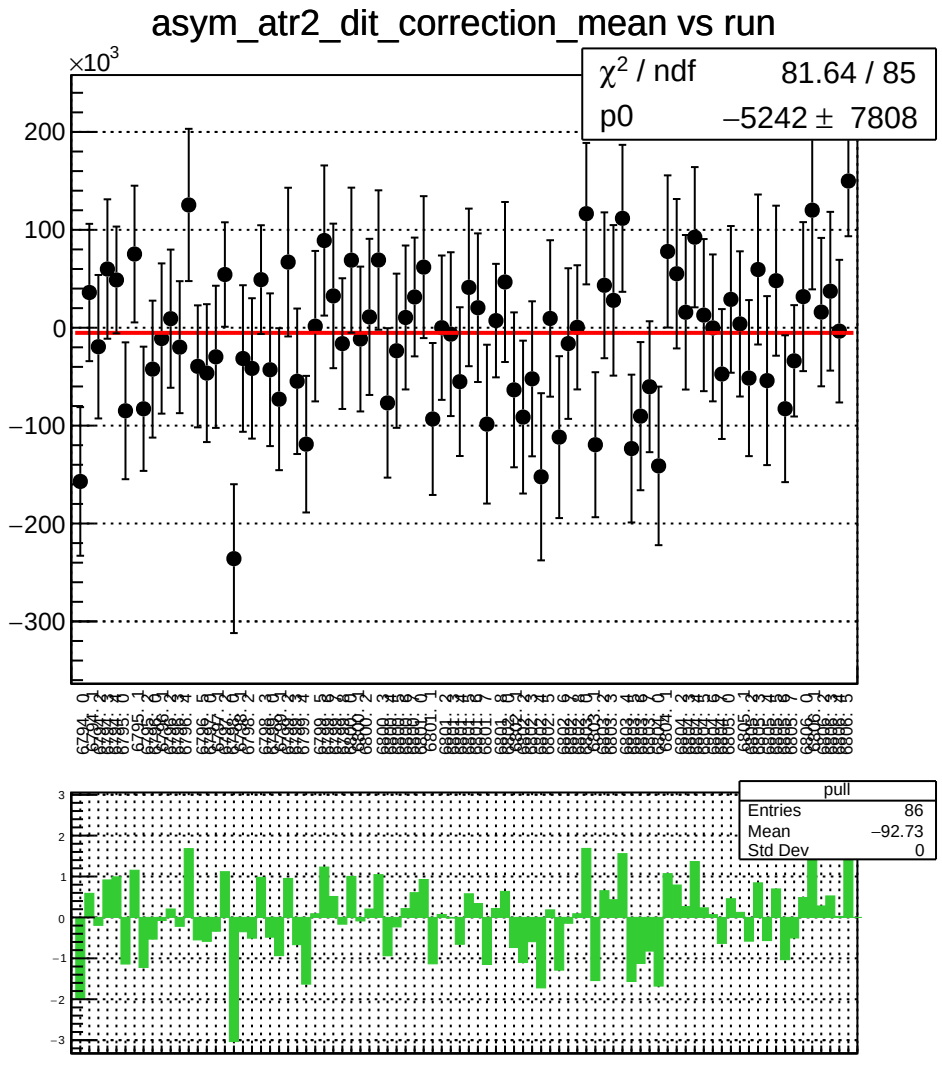

pull1D
Entries 86
Mean −0.0244
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

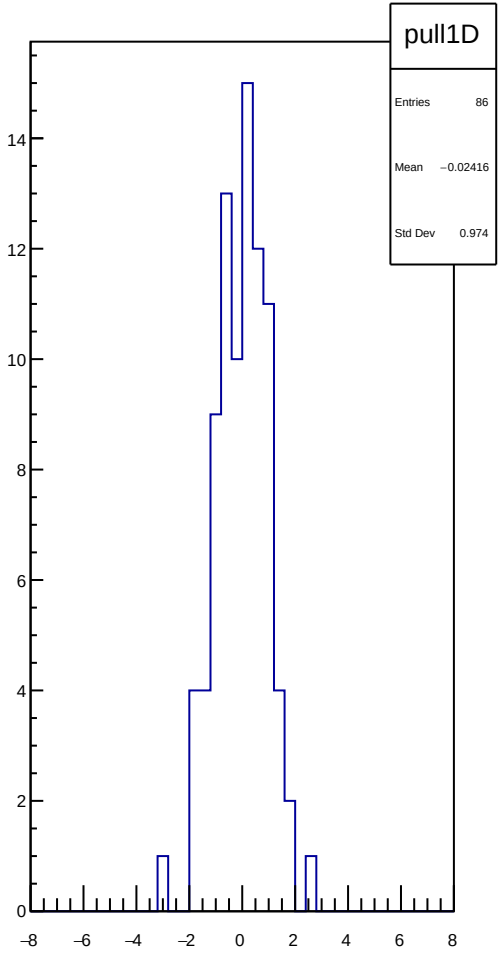

asym_atr2_eigen_cor_correction_rms vs run
χ^2 / ndf 3851 / 85
p0 6756 ± 5.215
7800
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800


dit_asym_atr2_mean vs run
×10^3
χ² / ndf 84.54 / 85
p0 −1755 ± 2644
pull
Entries 86
Mean −0.7863
Std Dev 0


pull1D
Entries 86
Mean 0.002243
Std Dev 0.9914


dit_asym_atr2_rms vs run
χ² / ndf 138.5 / 85
p0 2425 ± 1.87
2500
2480
2460
2440
2420
2400
2380
2360


asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 81.64 / 85
p0 −5242 ± 7808
200
100
0
−100
−200
−300
pull
Entries 86
Mean −92.73
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.02416
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
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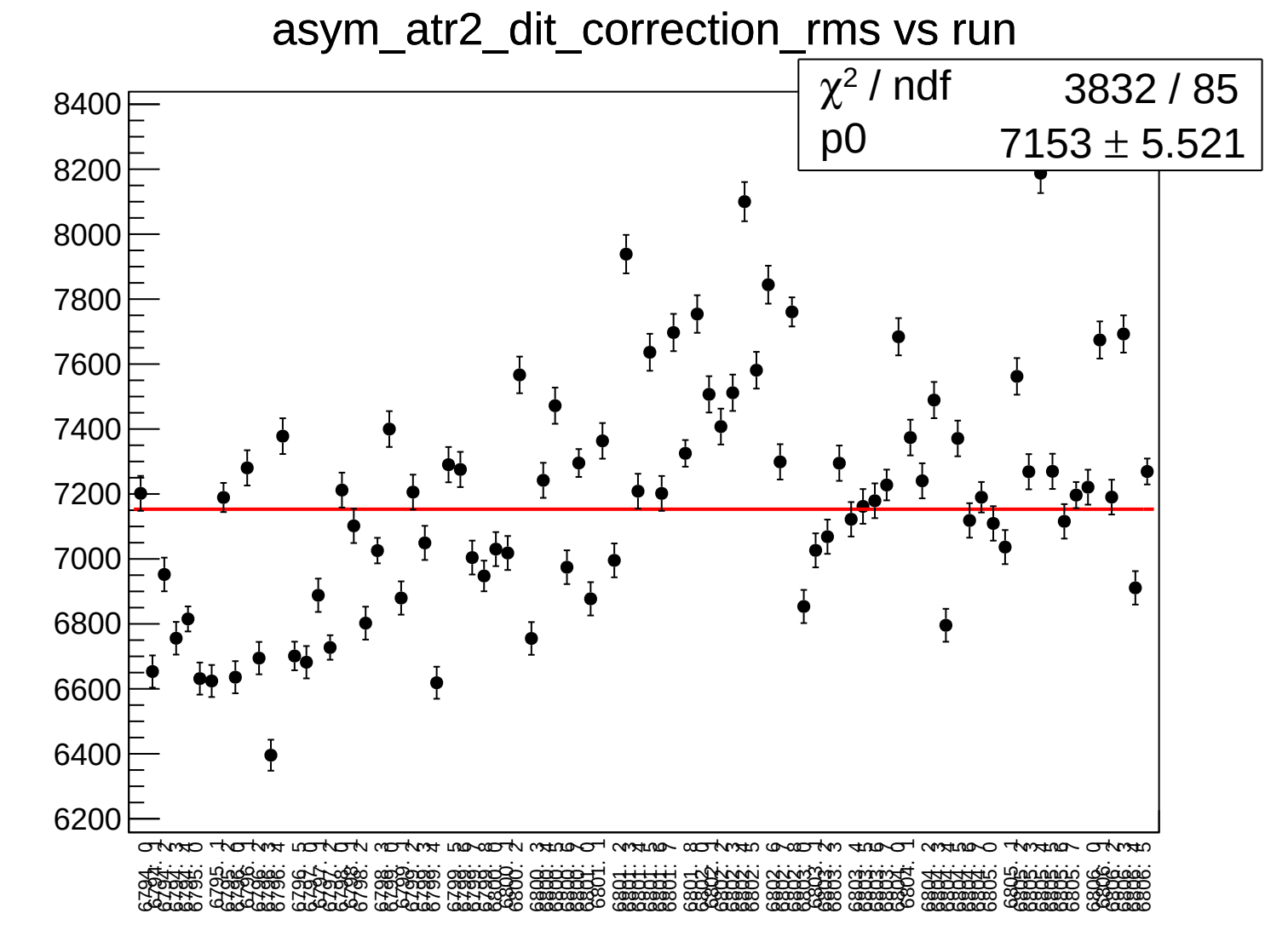
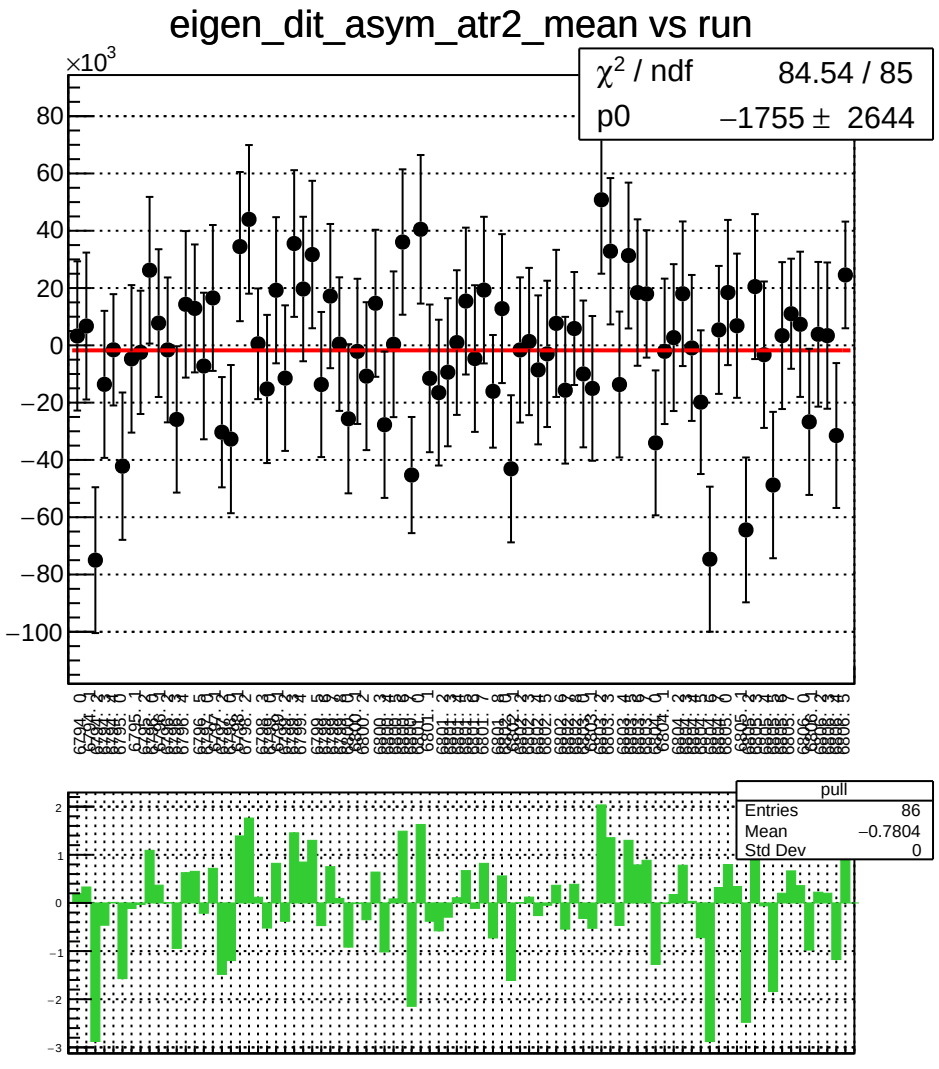
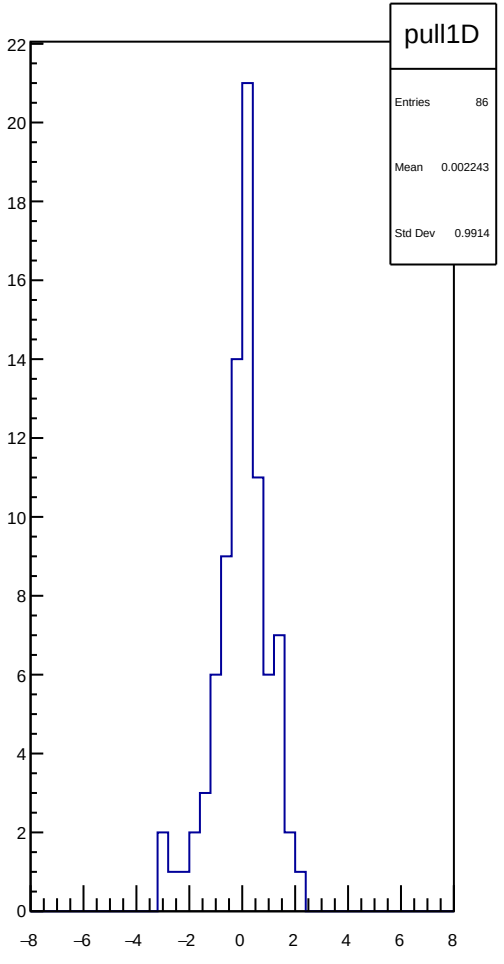
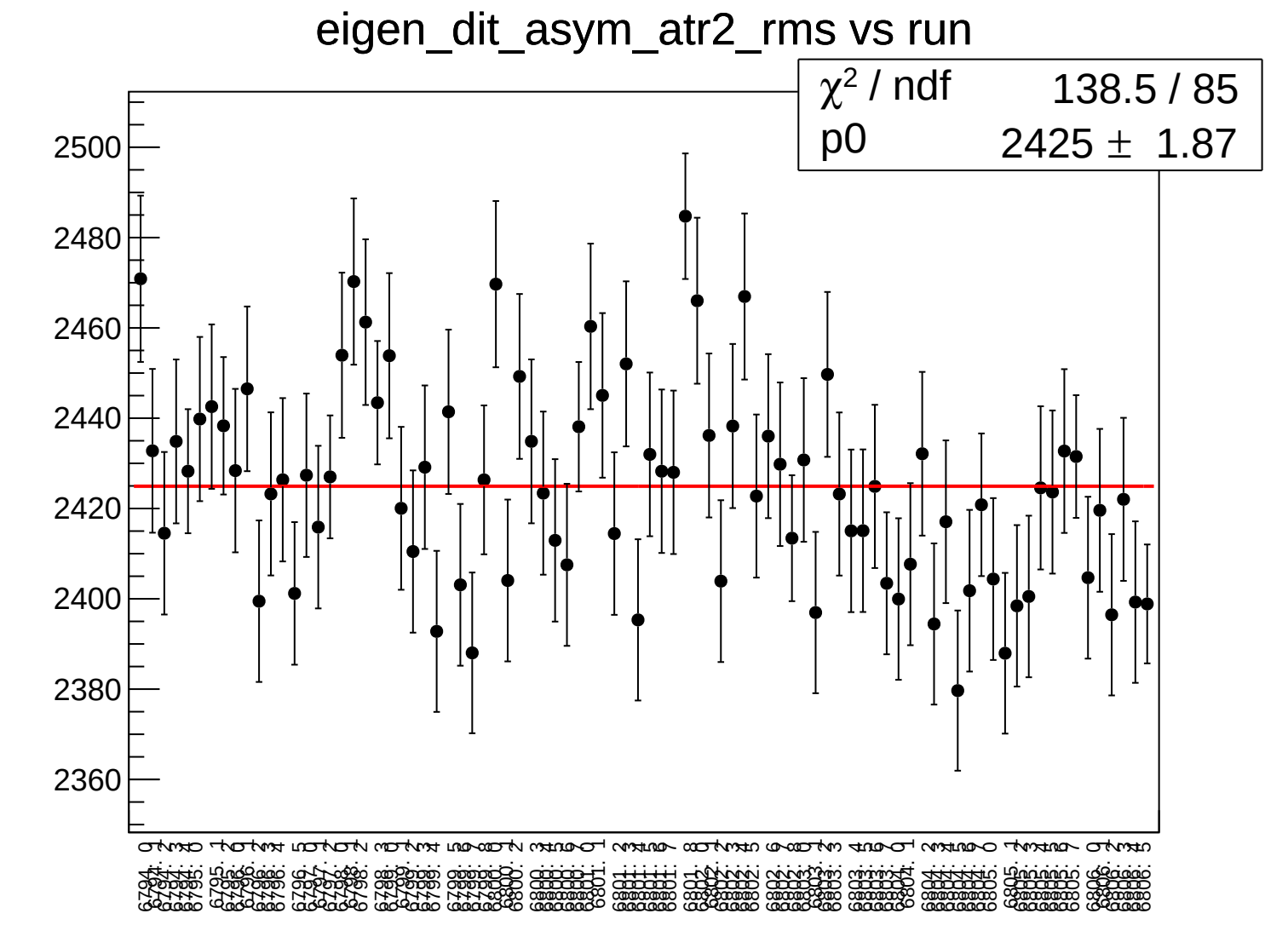
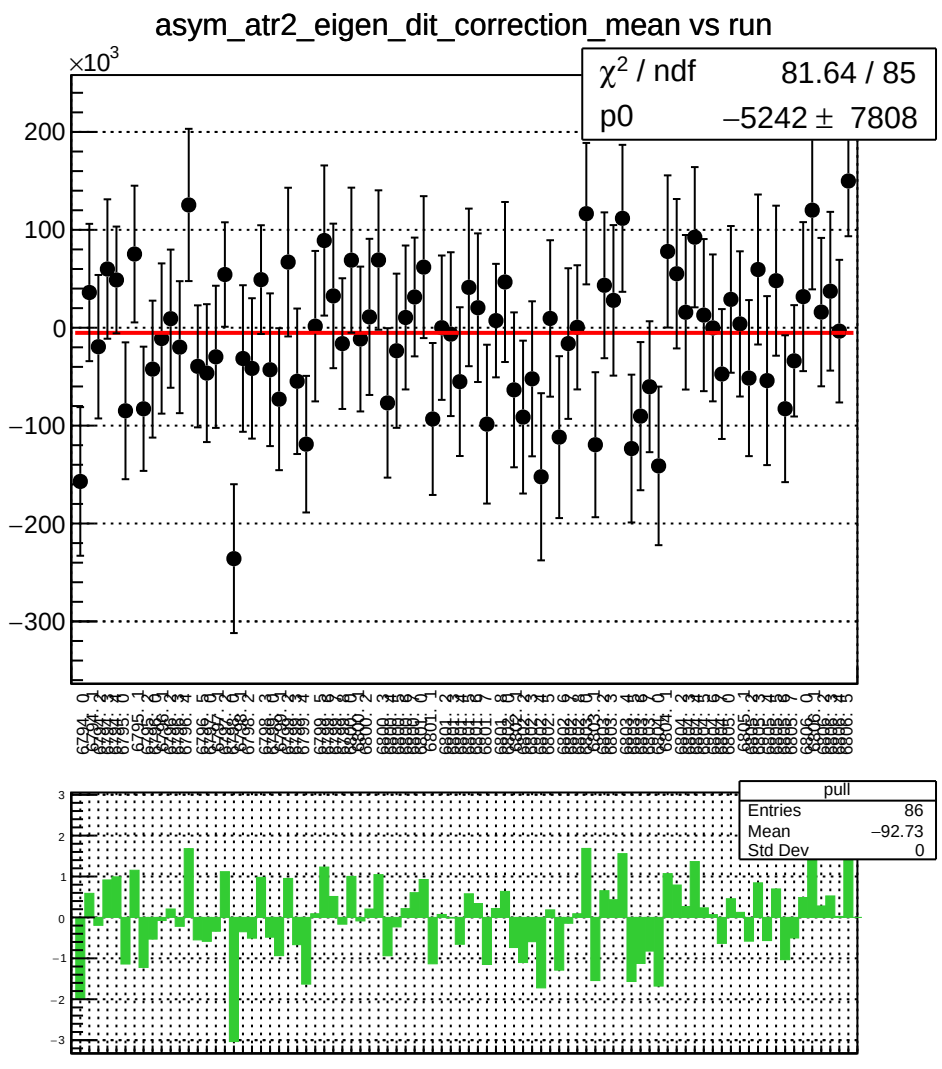
0
2
4
6
8

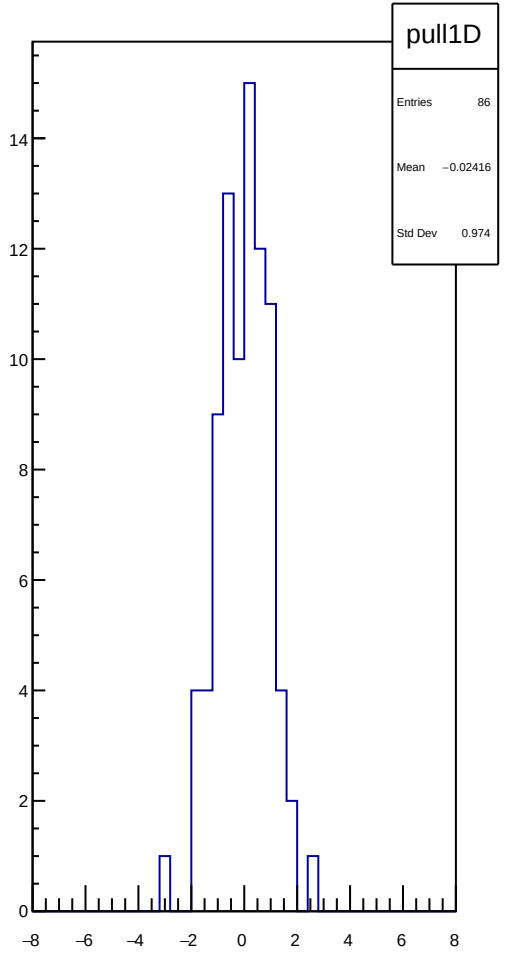

asym_atr2_dit_correction_rms vs run
χ² / ndf 3832 / 85
p0 7153 ± 5.521
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

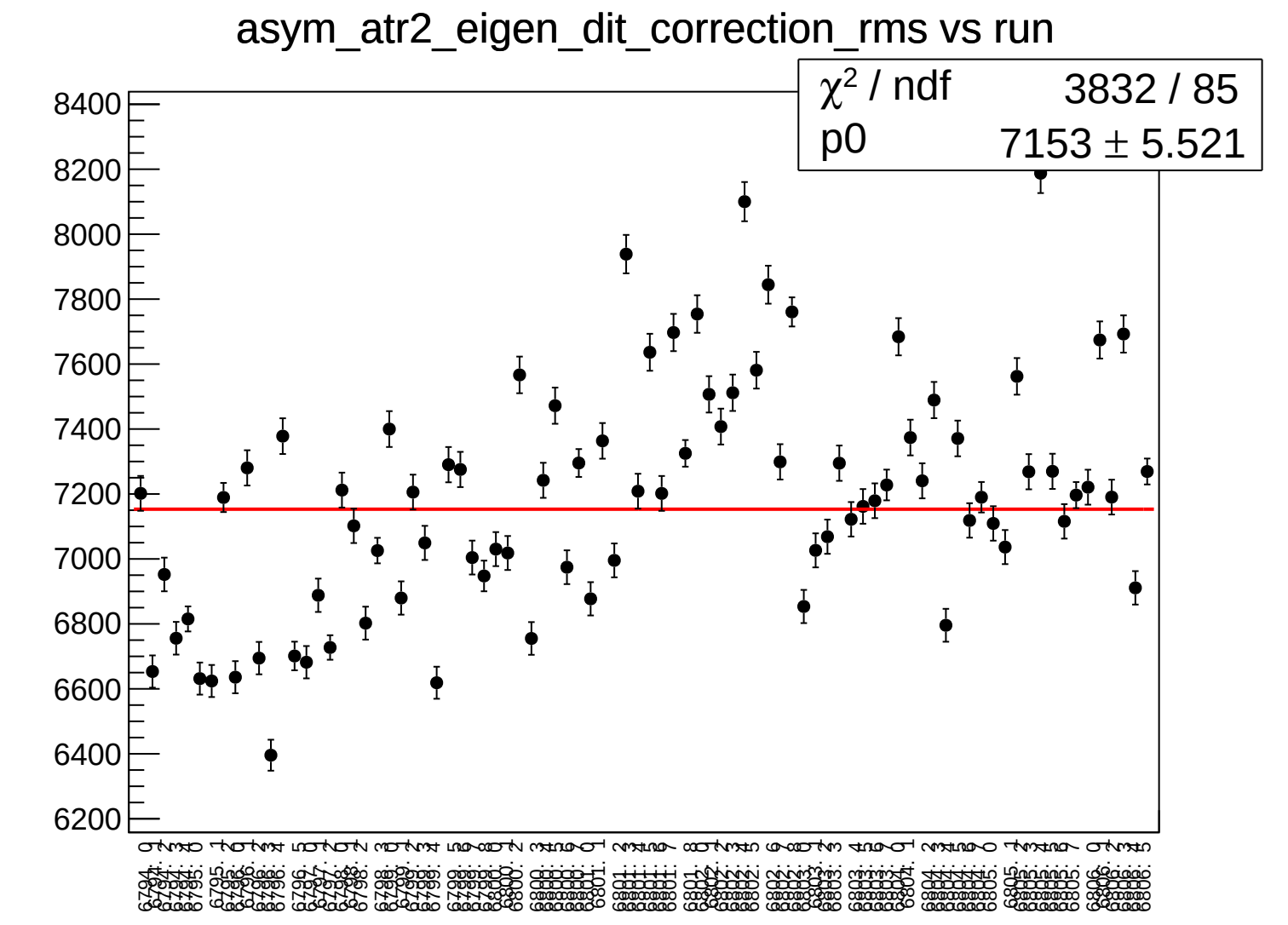

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 84.54 / 85
p0 −1755 ± 2644
pull
Entries 86
Mean −0.7804
Std Dev 0

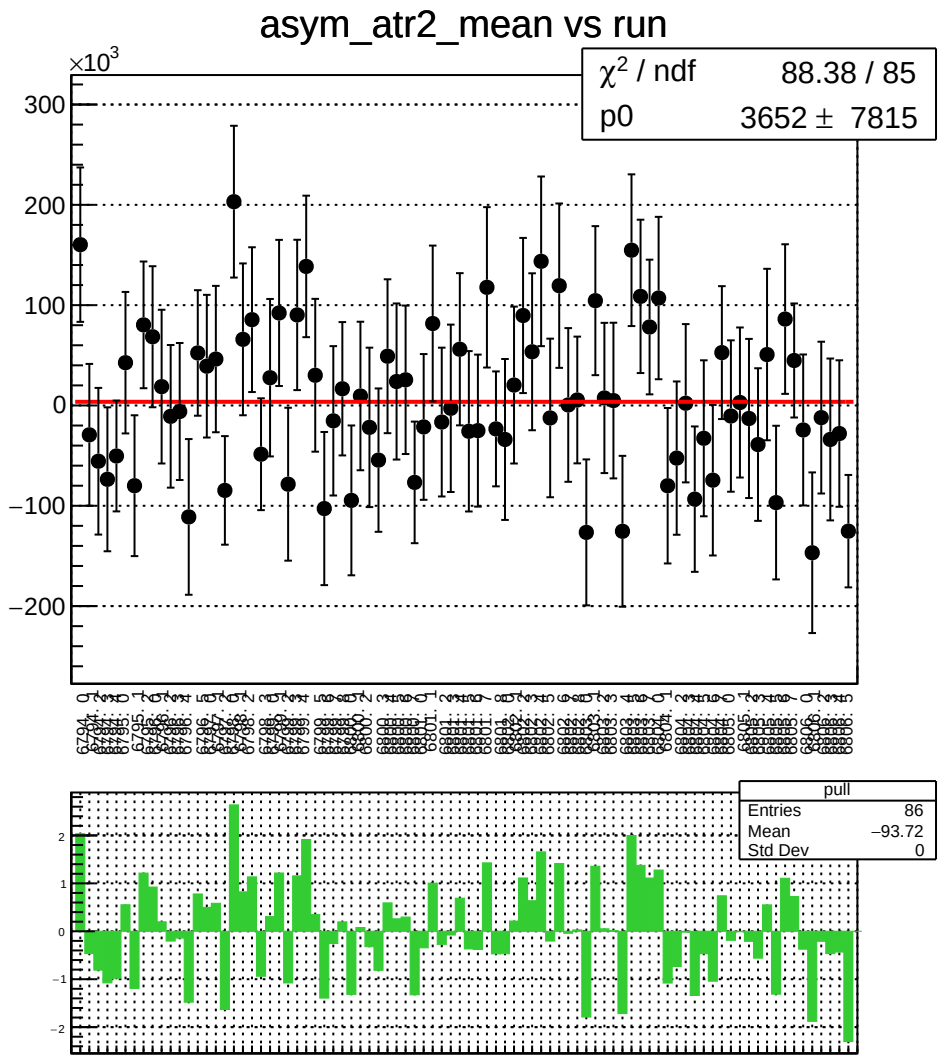

pull1D
Entries 86
Mean 0.002243
Std Dev 0.9914

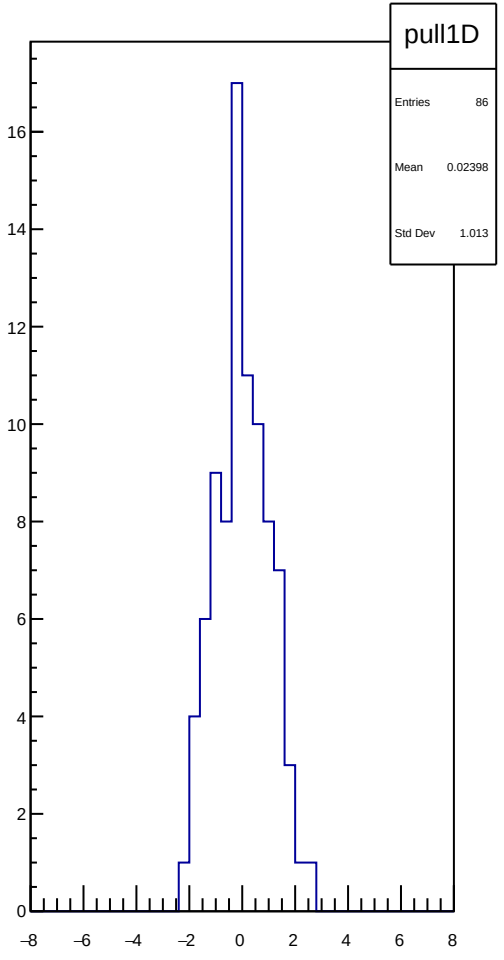

eigen_dit_asym_atr2_rms vs run
χ² / ndf 138.5 / 85
p0 2425 ± 1.87
2500
2480
2460
2440
2420
2400
2380
2360

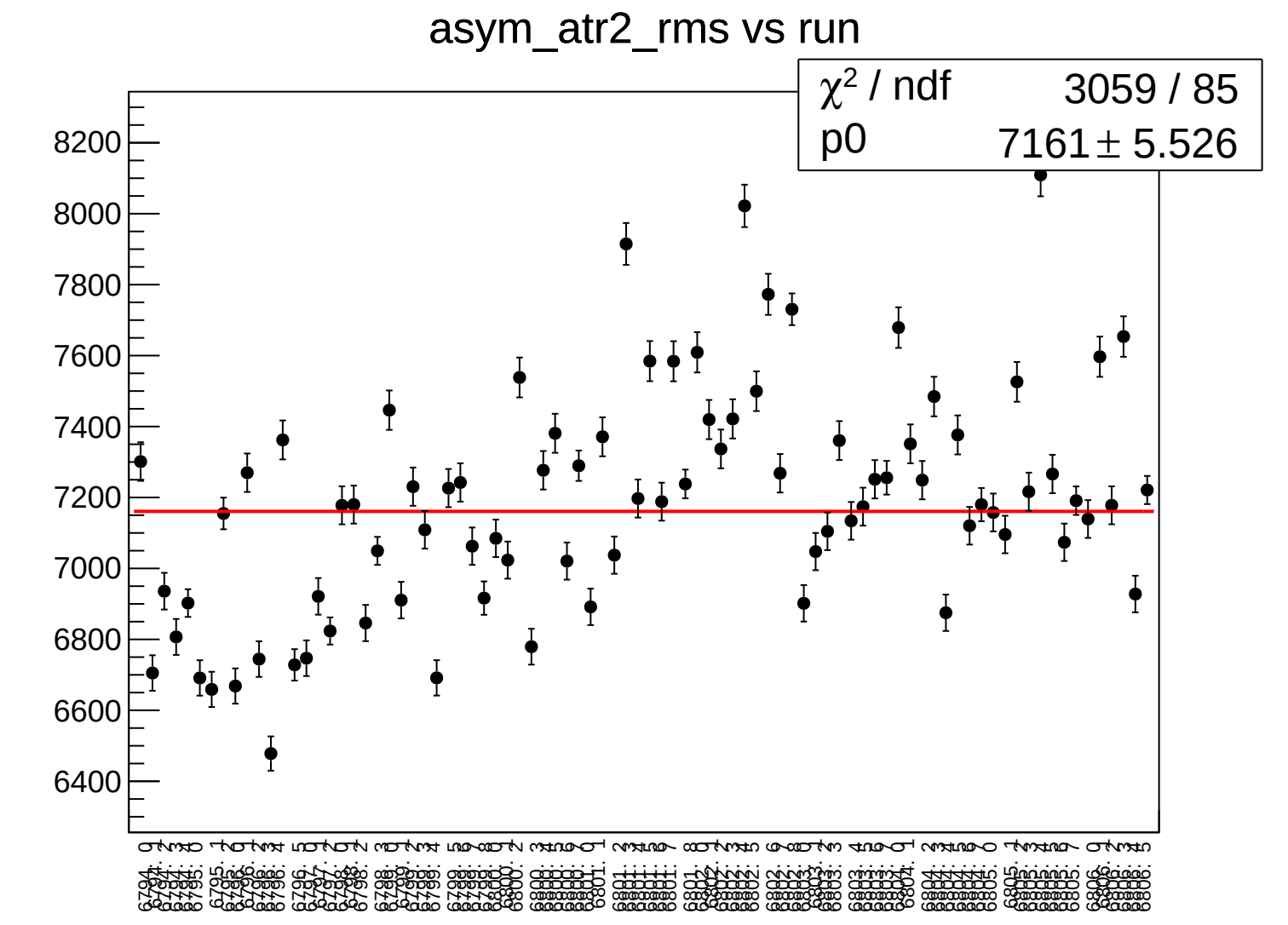

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.64 / 85
p0 −5242 ± 7808
200
100
0
−100
−200
−300
pull
Entries 86
Mean −92.73
Std Dev 0
3
2
1
0
−1
−2
−3

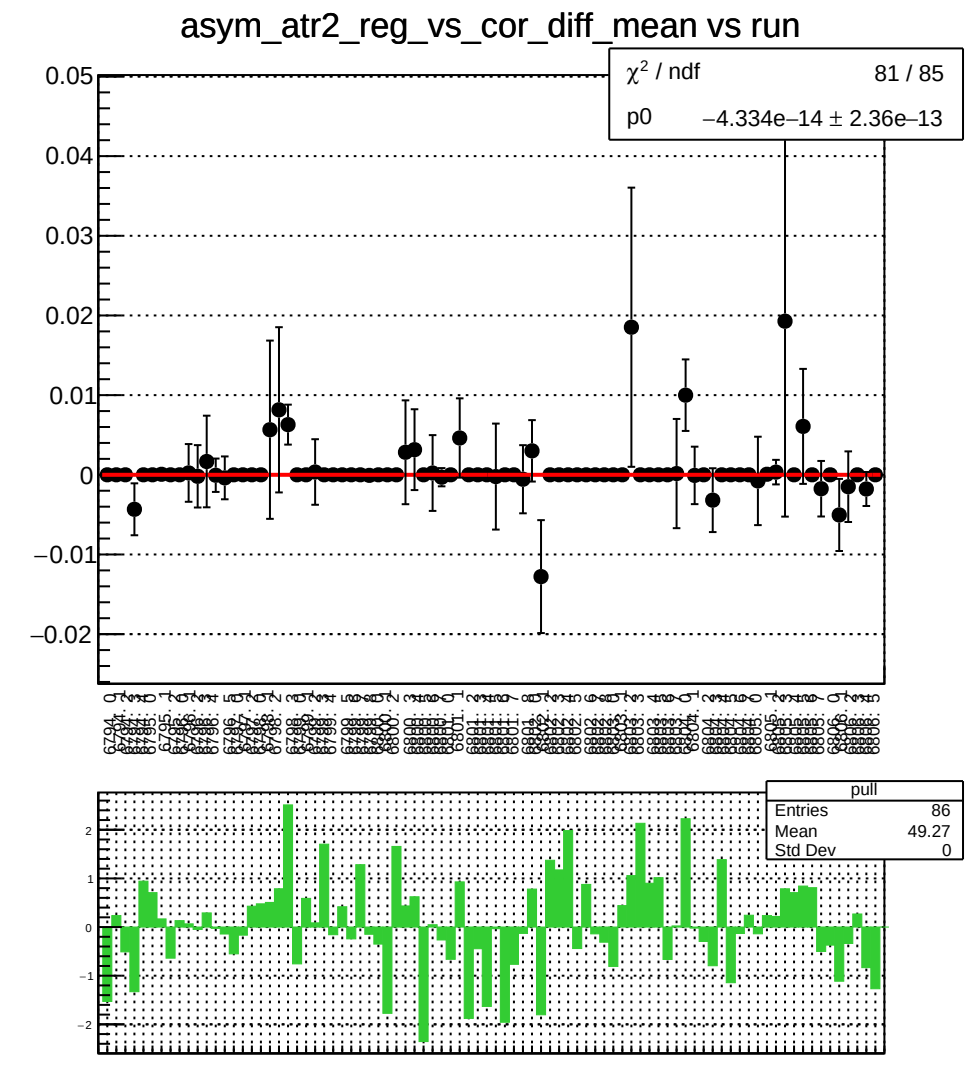

pull1D
Entries 86
Mean −0.02416
Std Dev 0.974
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

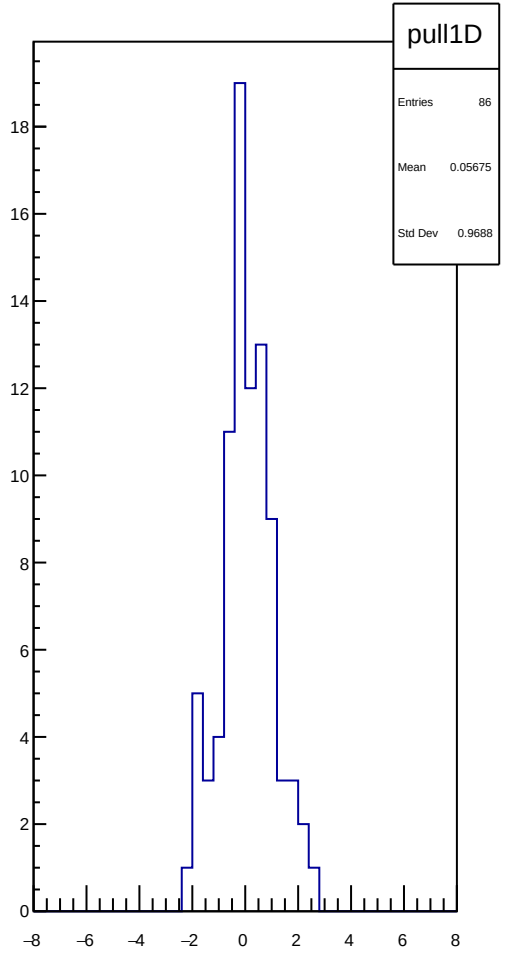

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 3832 / 85
p0 7153 ± 5.521
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

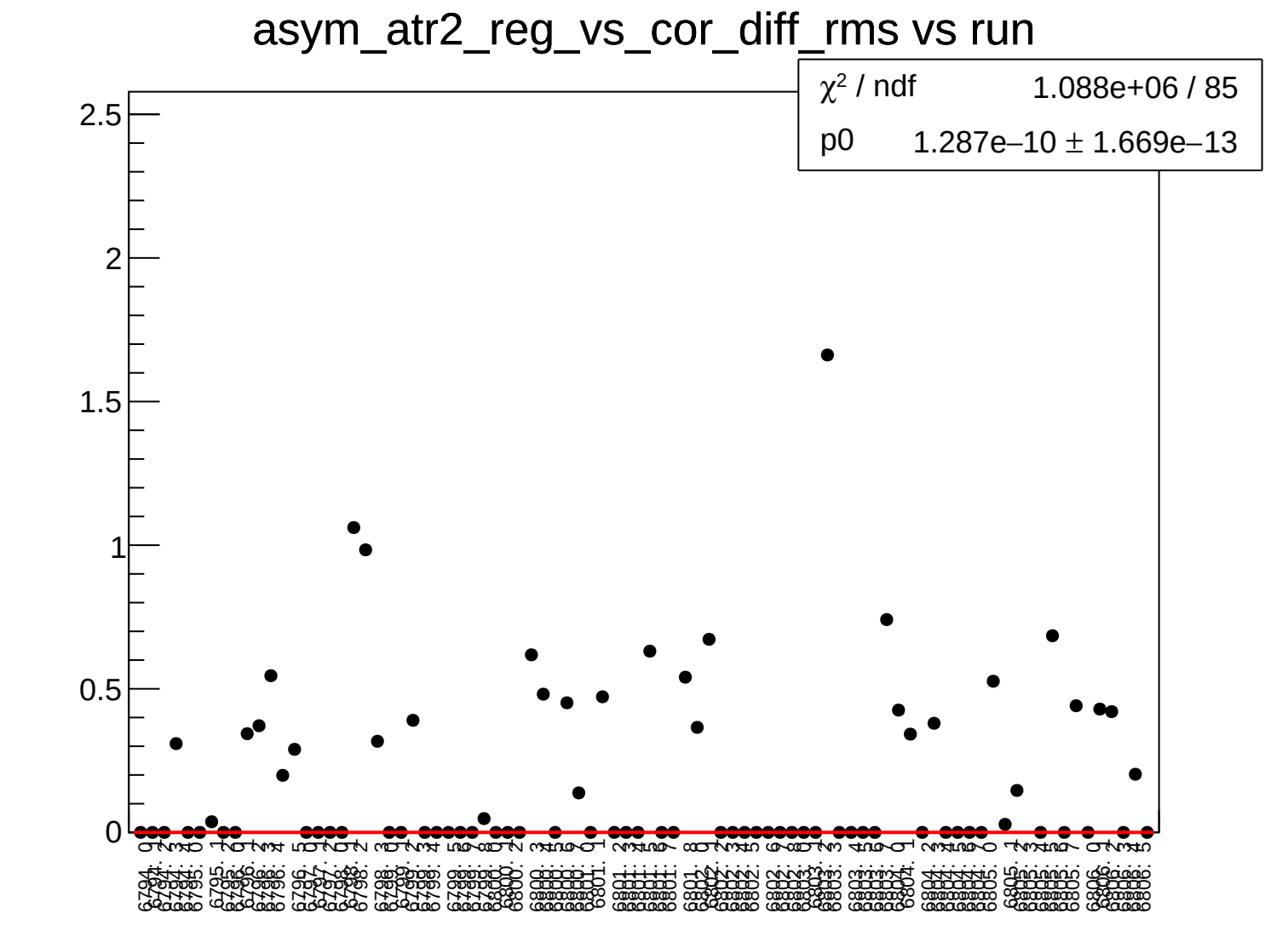

asym_atr2_mean vs run
×10^3
χ^2 / ndf 88.38 / 85
p0 3652 ± 7815
300
200
100
0
−100
−200
pull
Entries 86
Mean −93.72
Std Dev 0
2
1
0
−1
−2

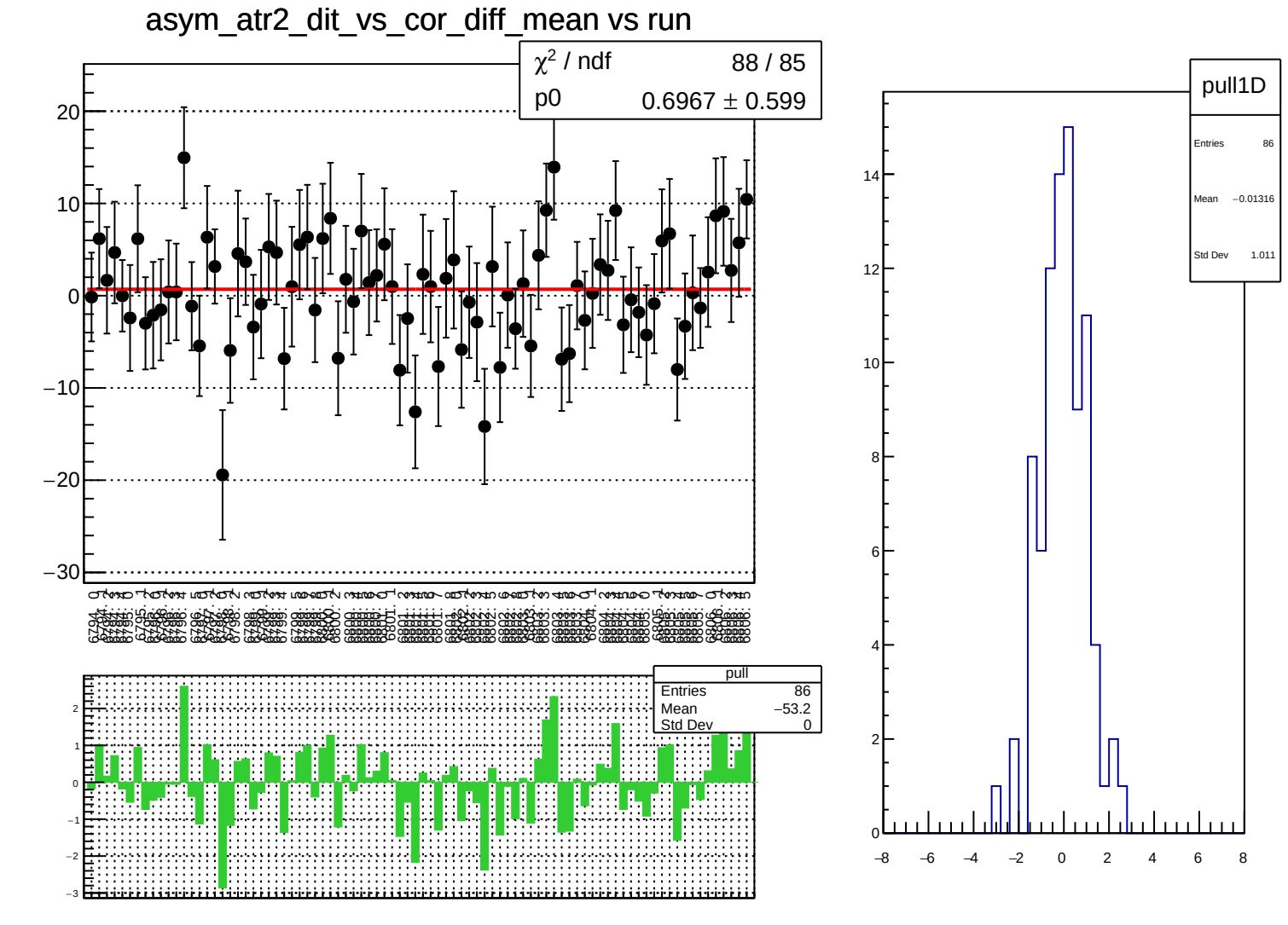

pull1D
Entries 86
Mean 0.02398
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

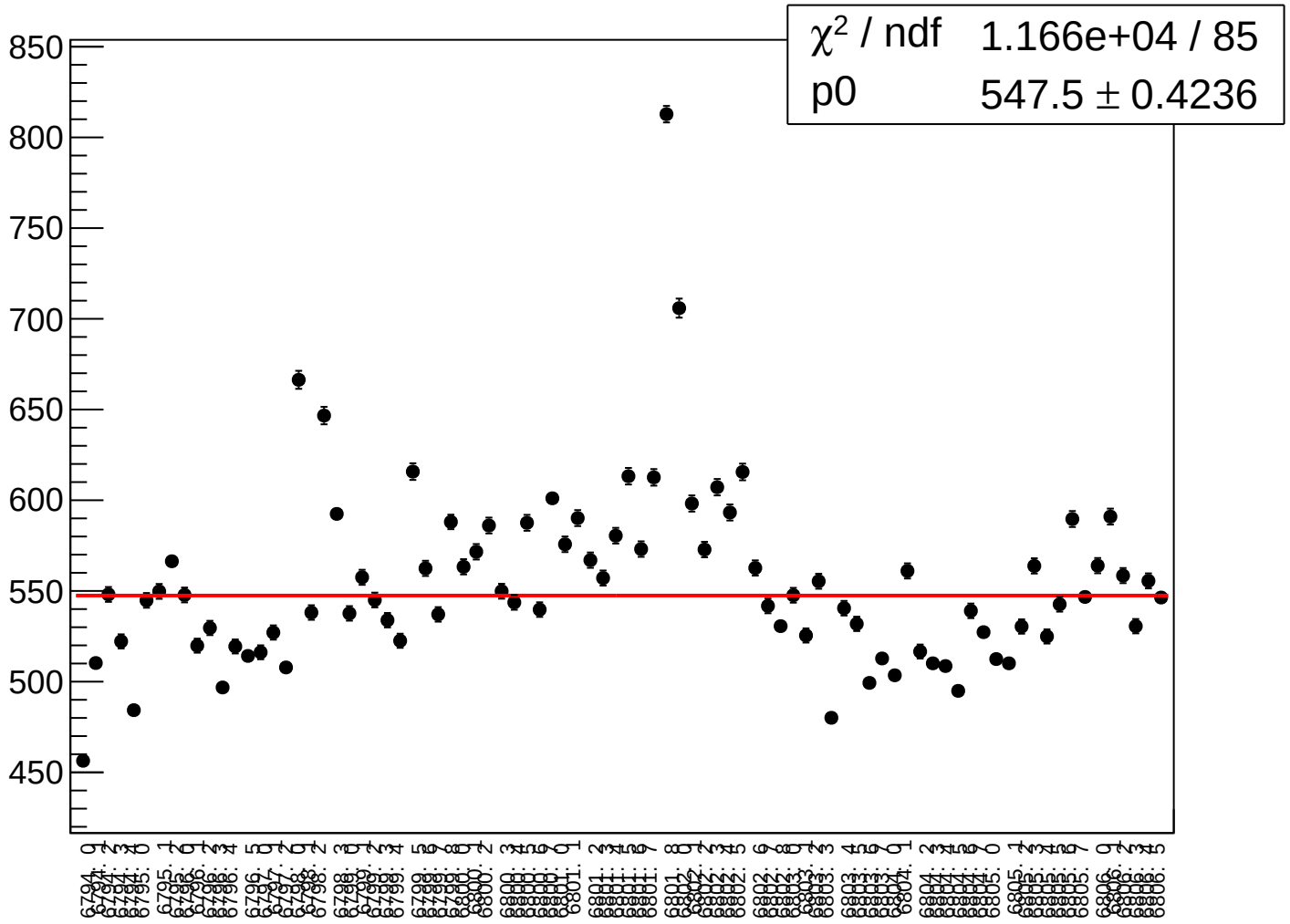

asym_atr2_rms vs run
χ² / ndf 3059 / 85
p0 7161 ± 5.526
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

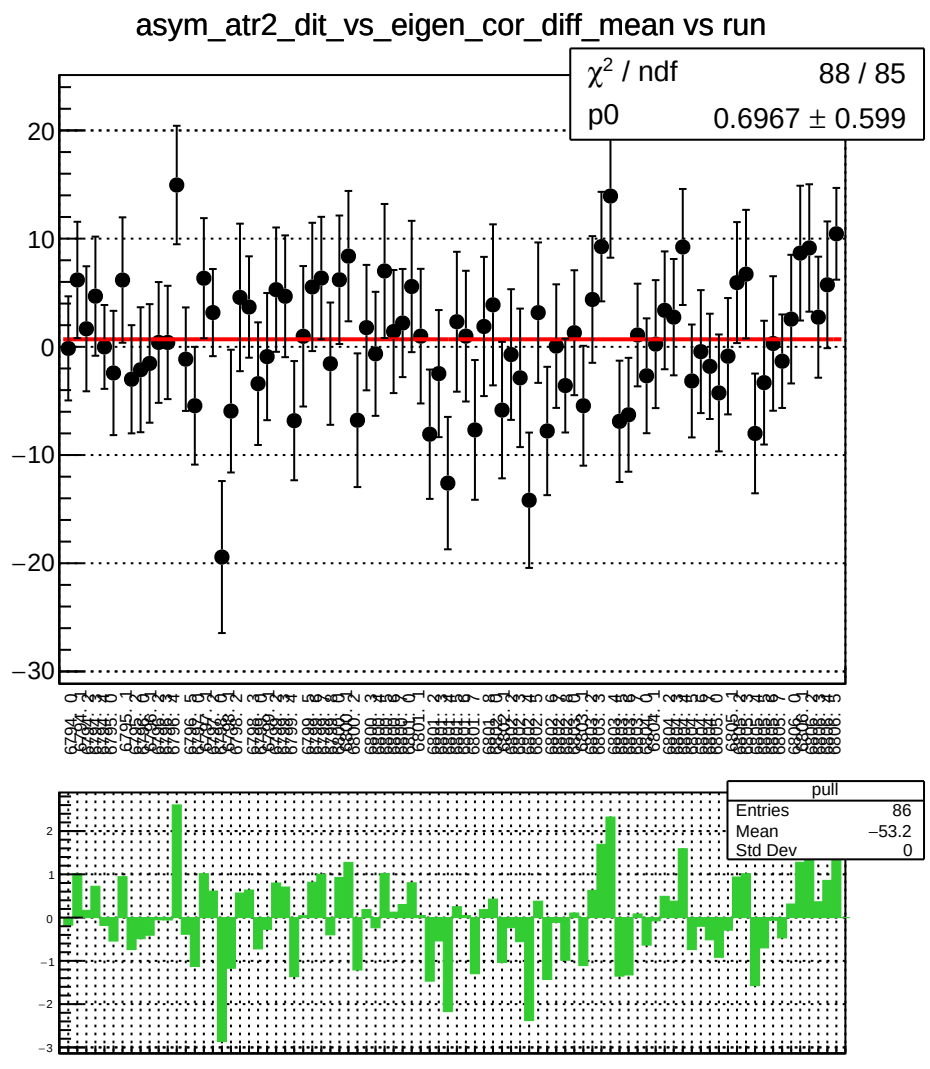

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 81 / 85
p0 −4.334e−14 ± 2.36e−13
pull
Entries 86
Mean 49.27
Std Dev 0

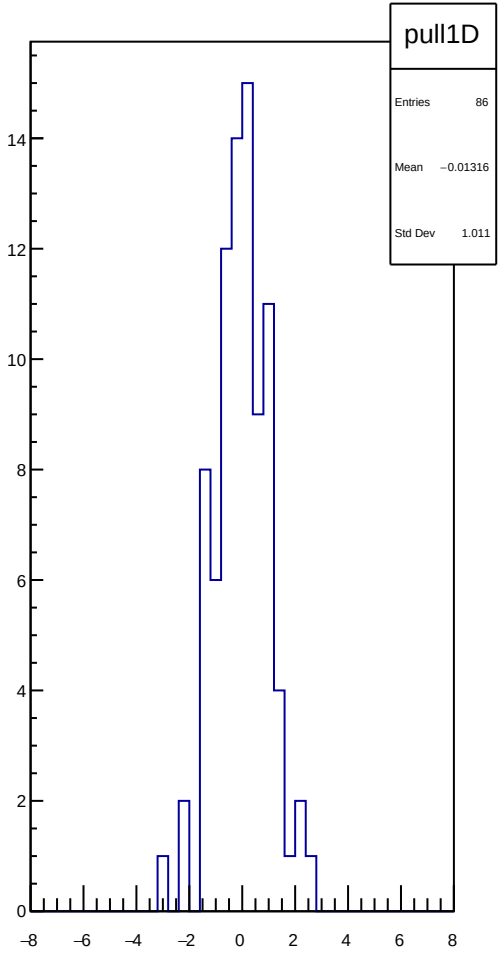

pull1D
Entries 86
Mean 0.05675
Std Dev 0.9688

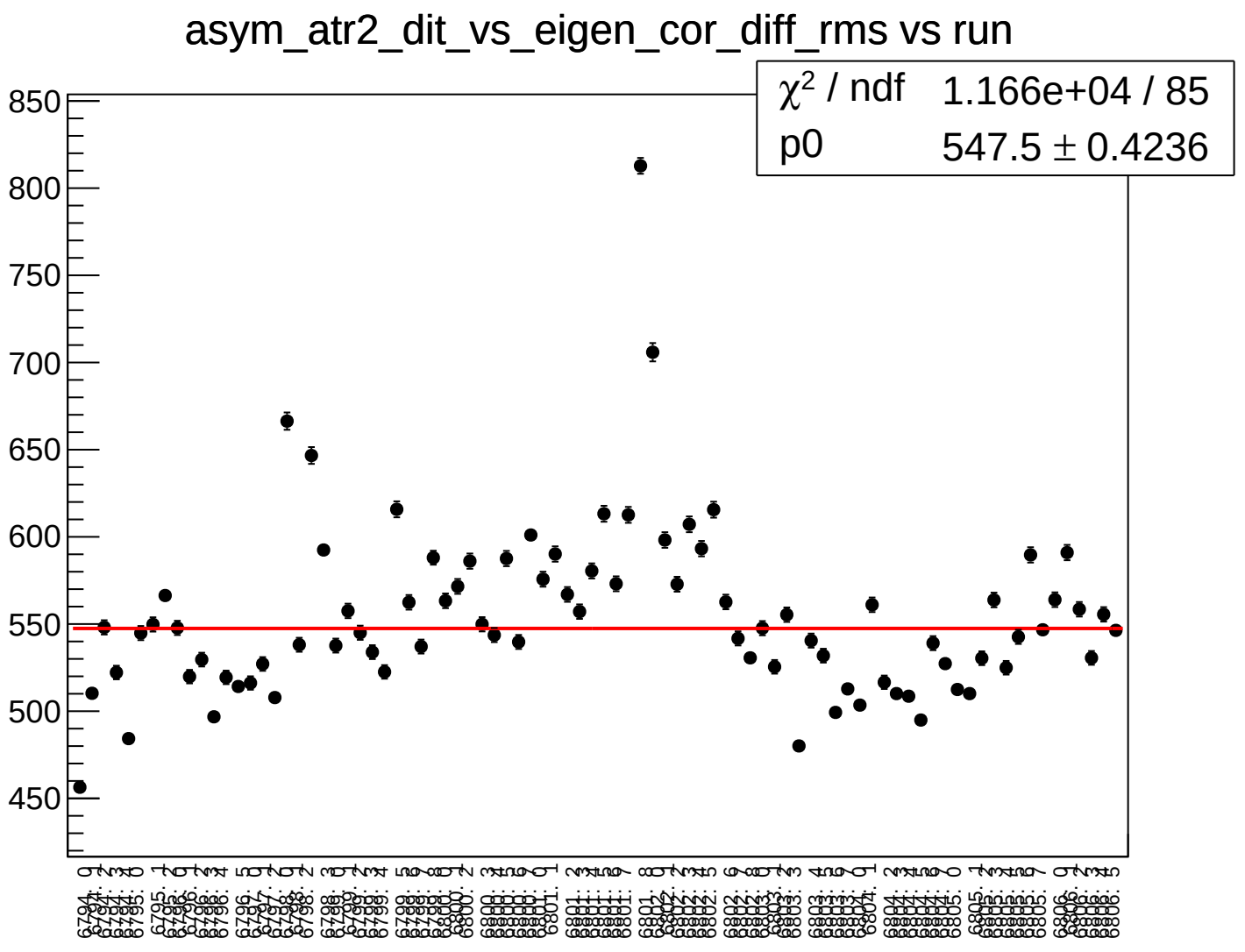

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.088e+06 / 85
p0 1.287e−10 ± 1.669e−13
2.5
2
1.5
1
0.5
0

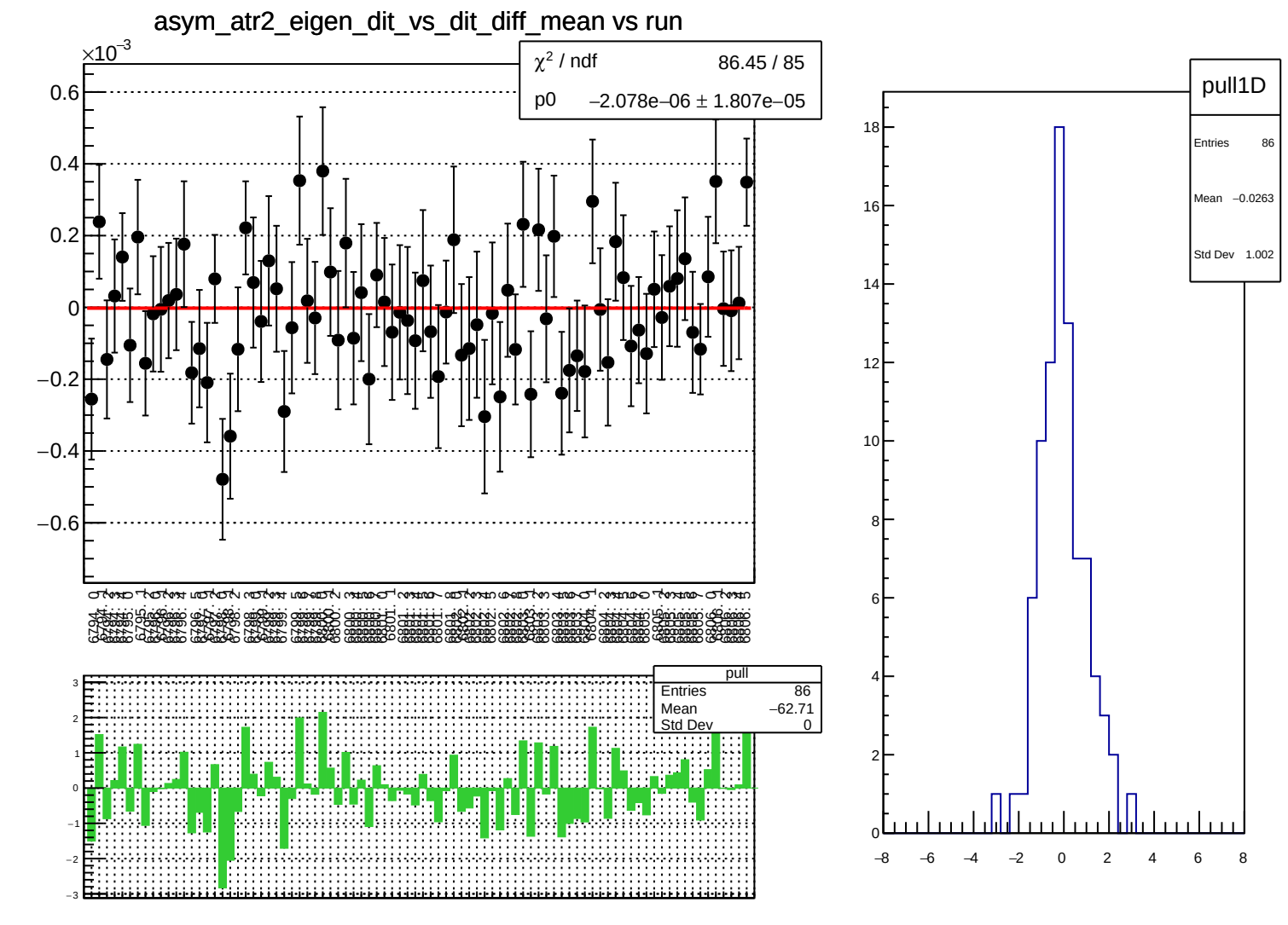

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 88 / 85
p0 0.6967 ± 0.599
pull
Entries 86
Mean −53.2
Std Dev 0
pull1D
Entries 86
Mean −0.01316
Std Dev 1.011

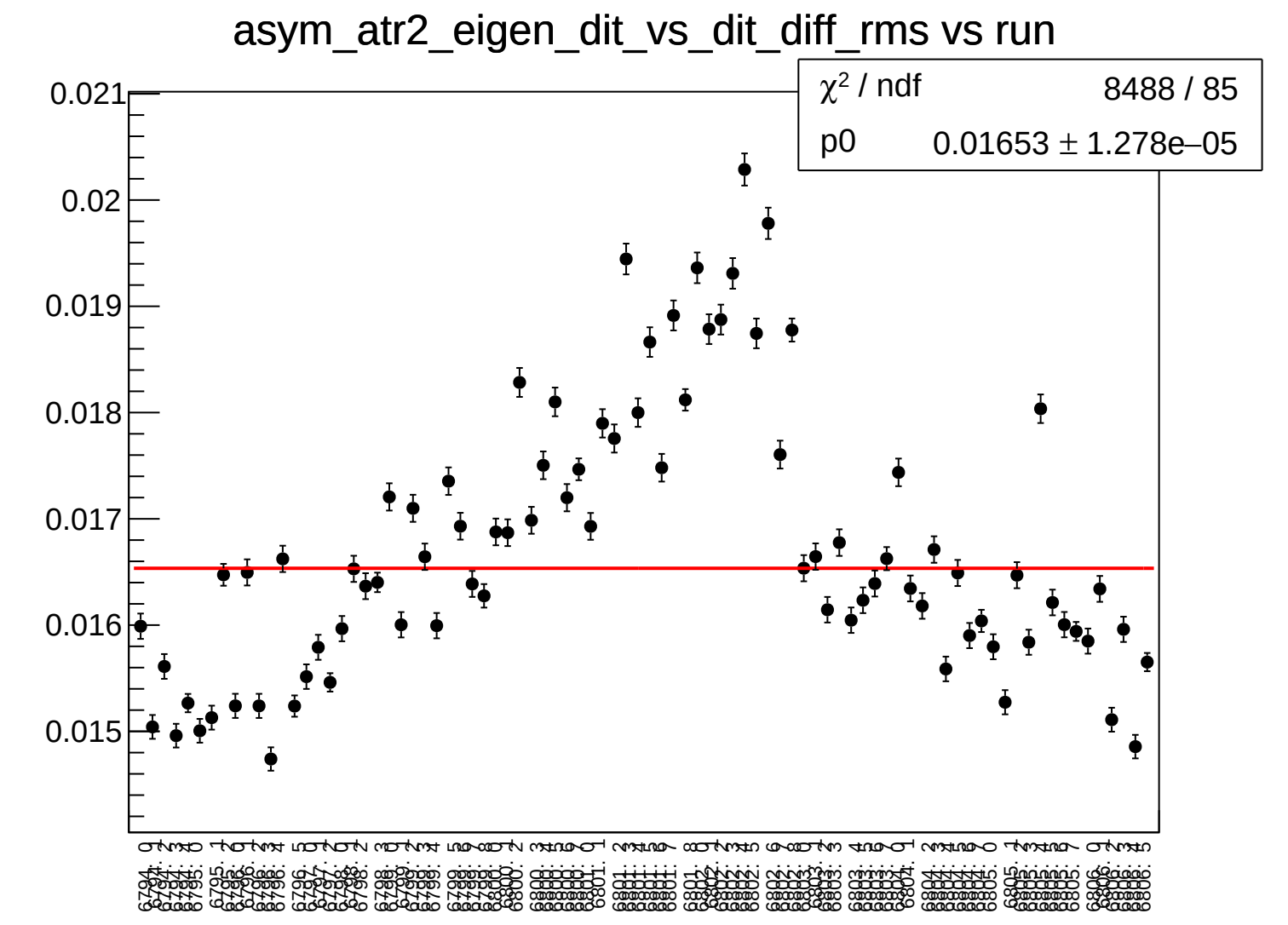

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.166e+04 / 85
p0 547.5 ± 0.4236
850
800
750
700
650
600
550
500
450

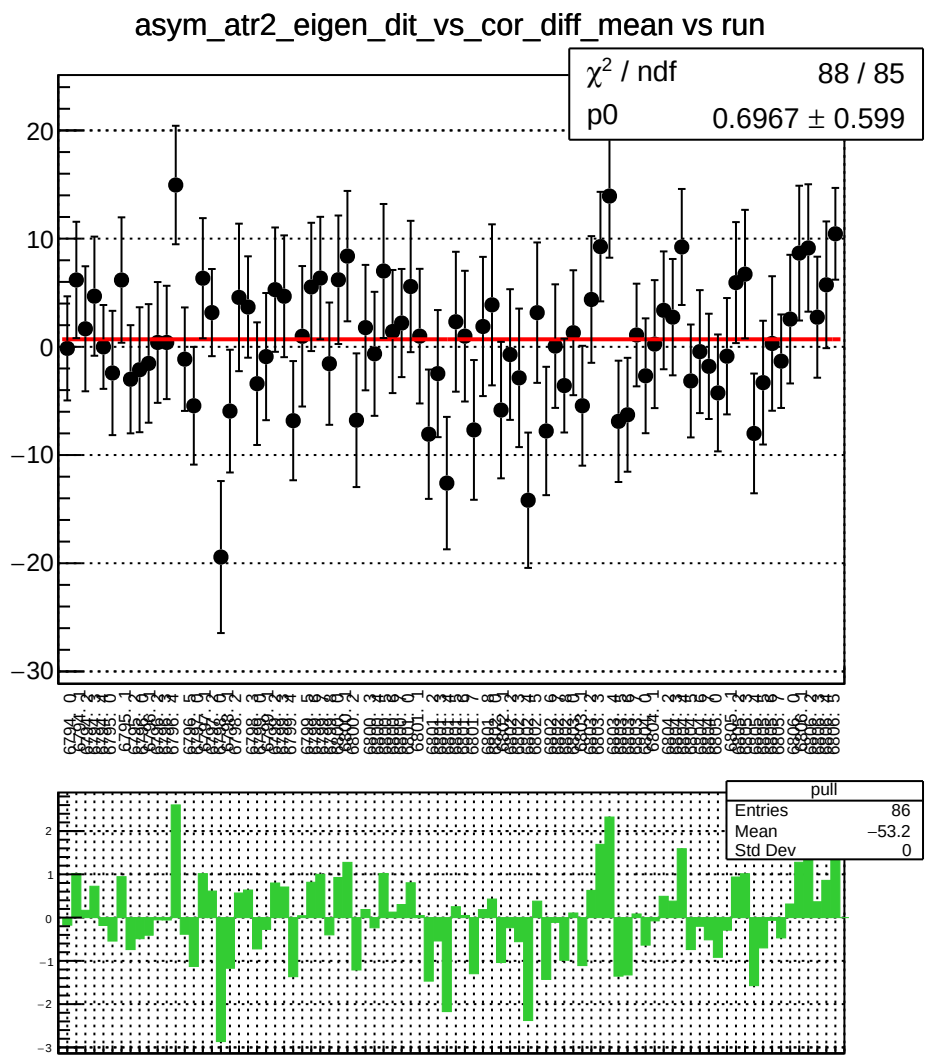

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88 / 85
p0 0.6967 ± 0.599
pull
Entries 86
Mean −53.2
Std Dev 0

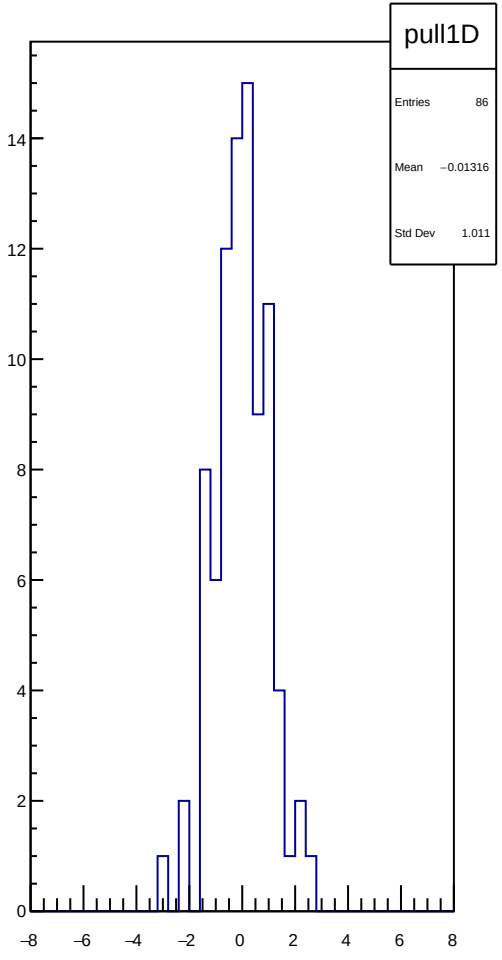

pull1D
Entries 86
Mean −0.01316
Std Dev 1.011

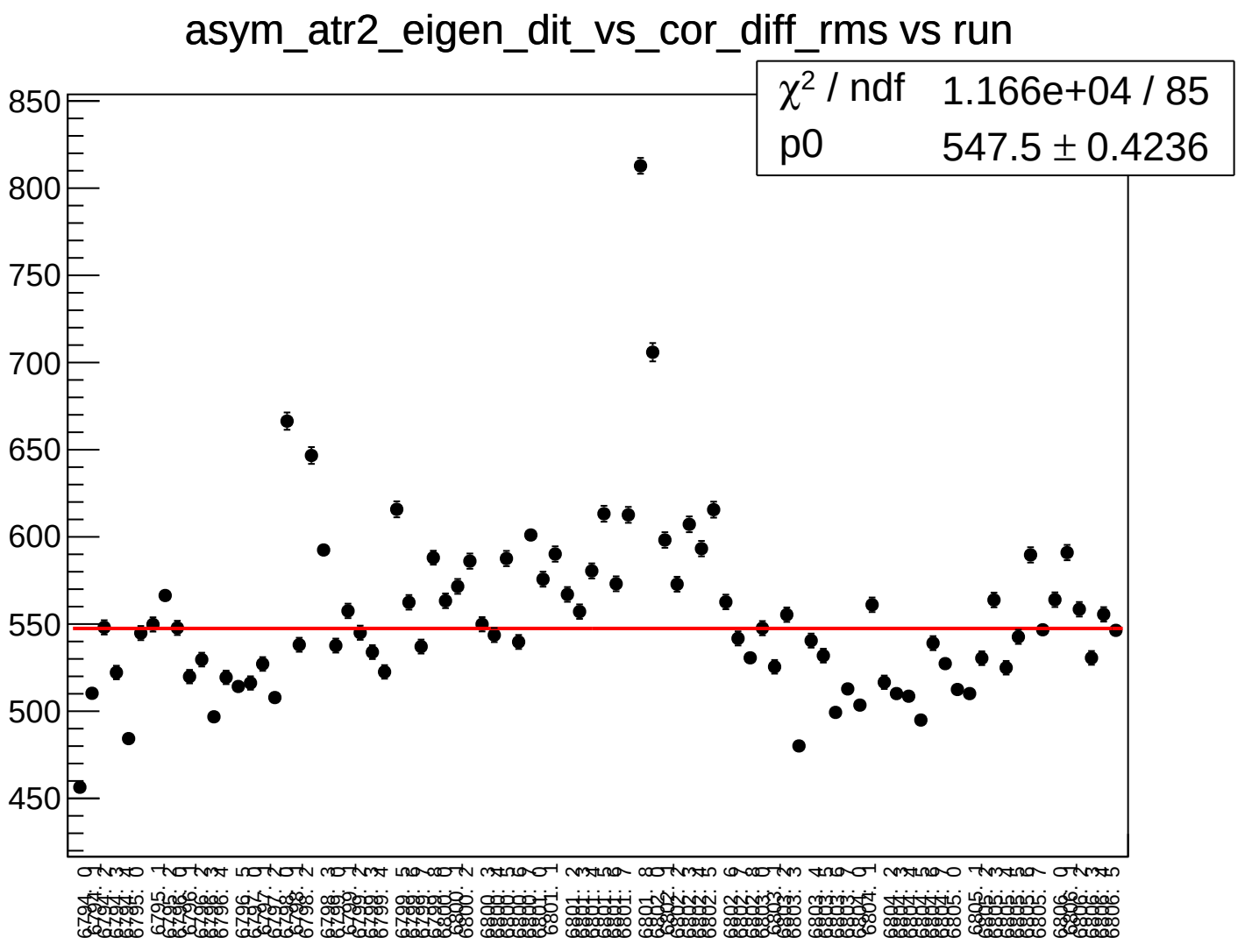

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.166e+04 / 85
p0 547.5 ± 0.4236
850
800
750
700
650
600
550
500
450

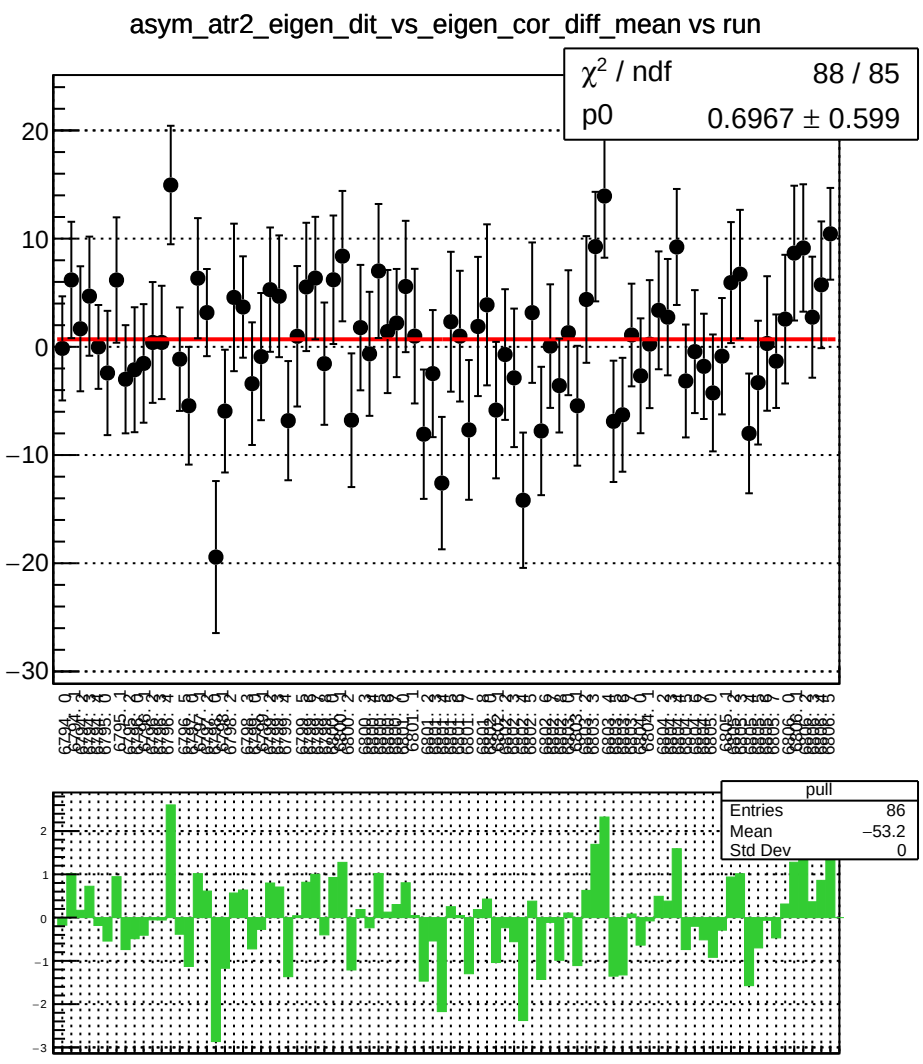

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.45 / 85
p0 −2.078e−06 ± 1.807e−05
pull
Entries 86
Mean −62.71
Std Dev 0
pull1D
Entries 86
Mean −0.0263
Std Dev 1.002

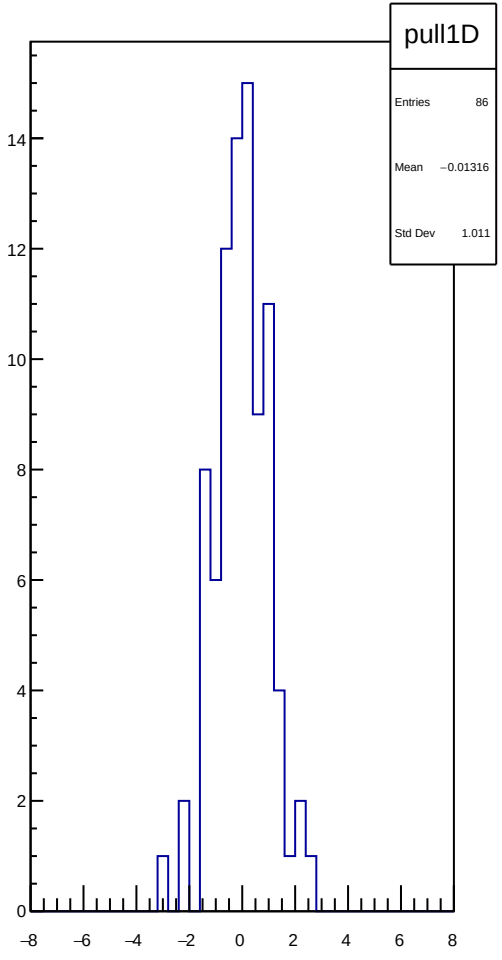

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8488 / 85
p0 0.01653 ± 1.278e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015

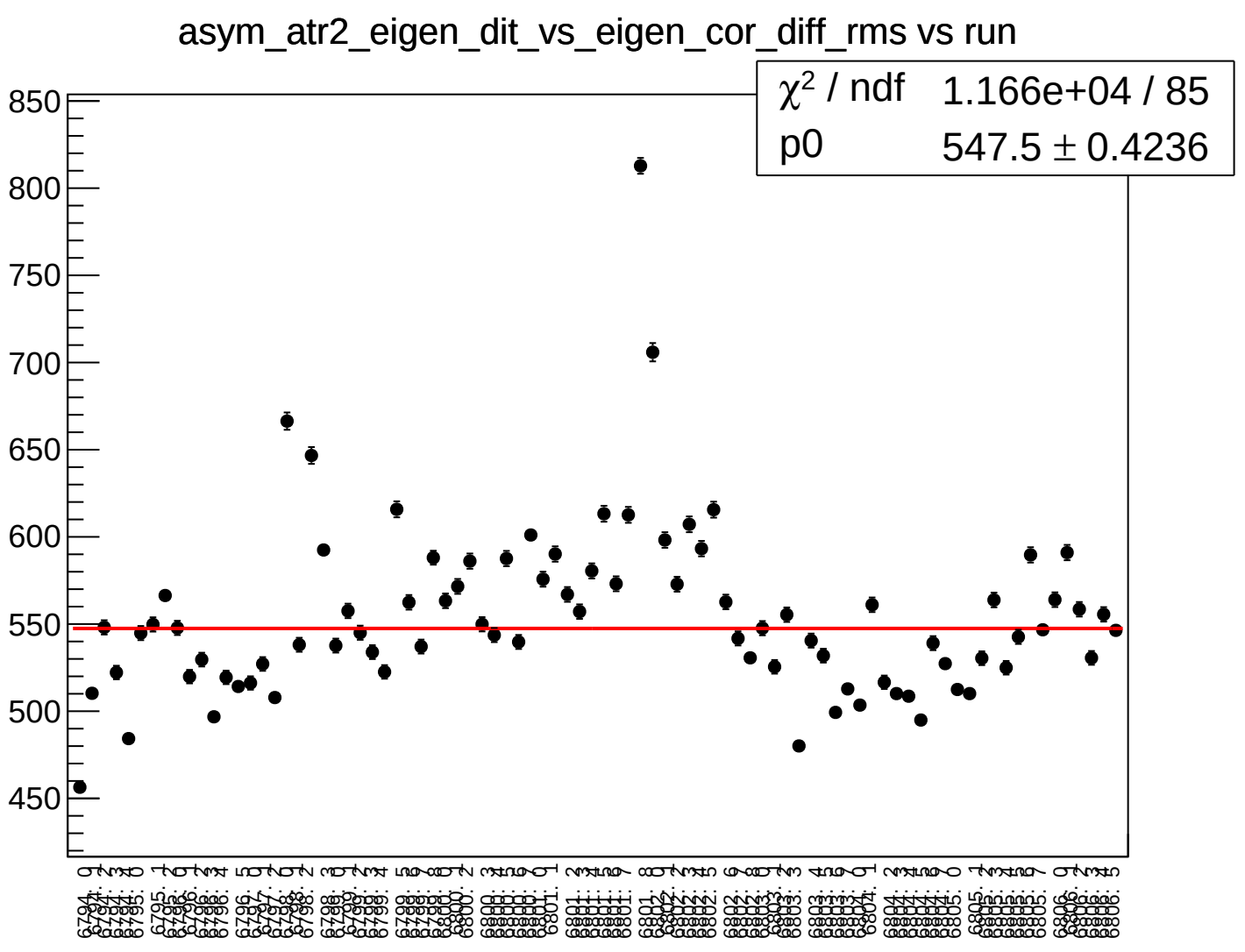

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88 / 85
p0 0.6967 ± 0.599
pull
Entries 86
Mean −53.2
Std Dev 0

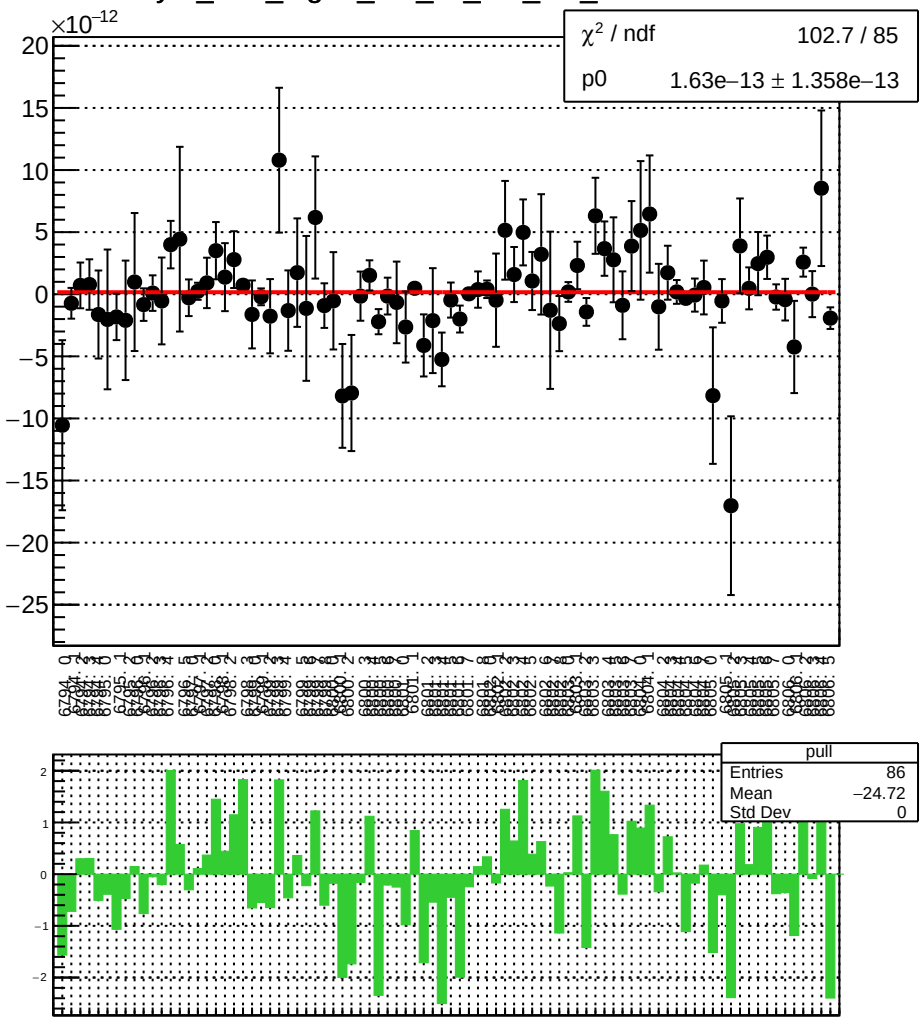

pull1D
Entries 86
Mean −0.01316
Std Dev 1.011

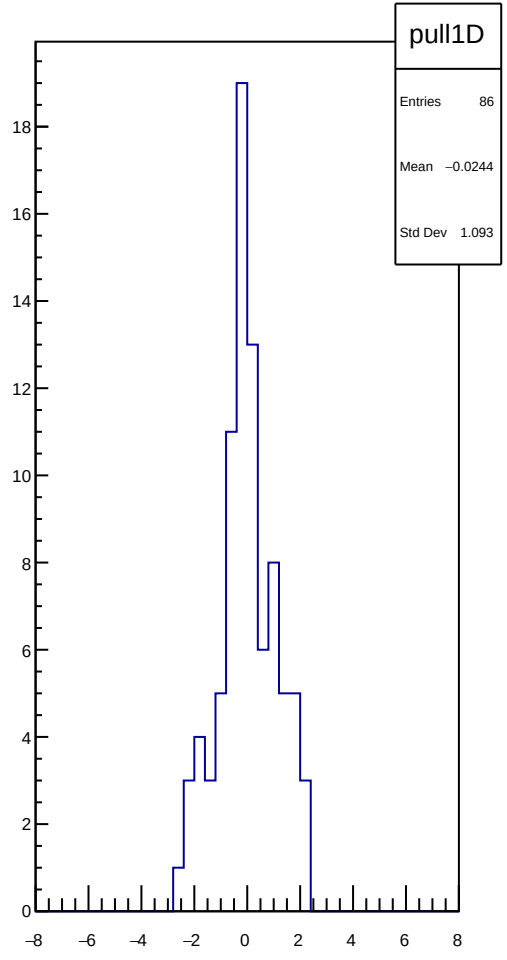

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.166e+04 / 85
p0 547.5 ± 0.4236
850
800
750
700
650
600
550
500
450

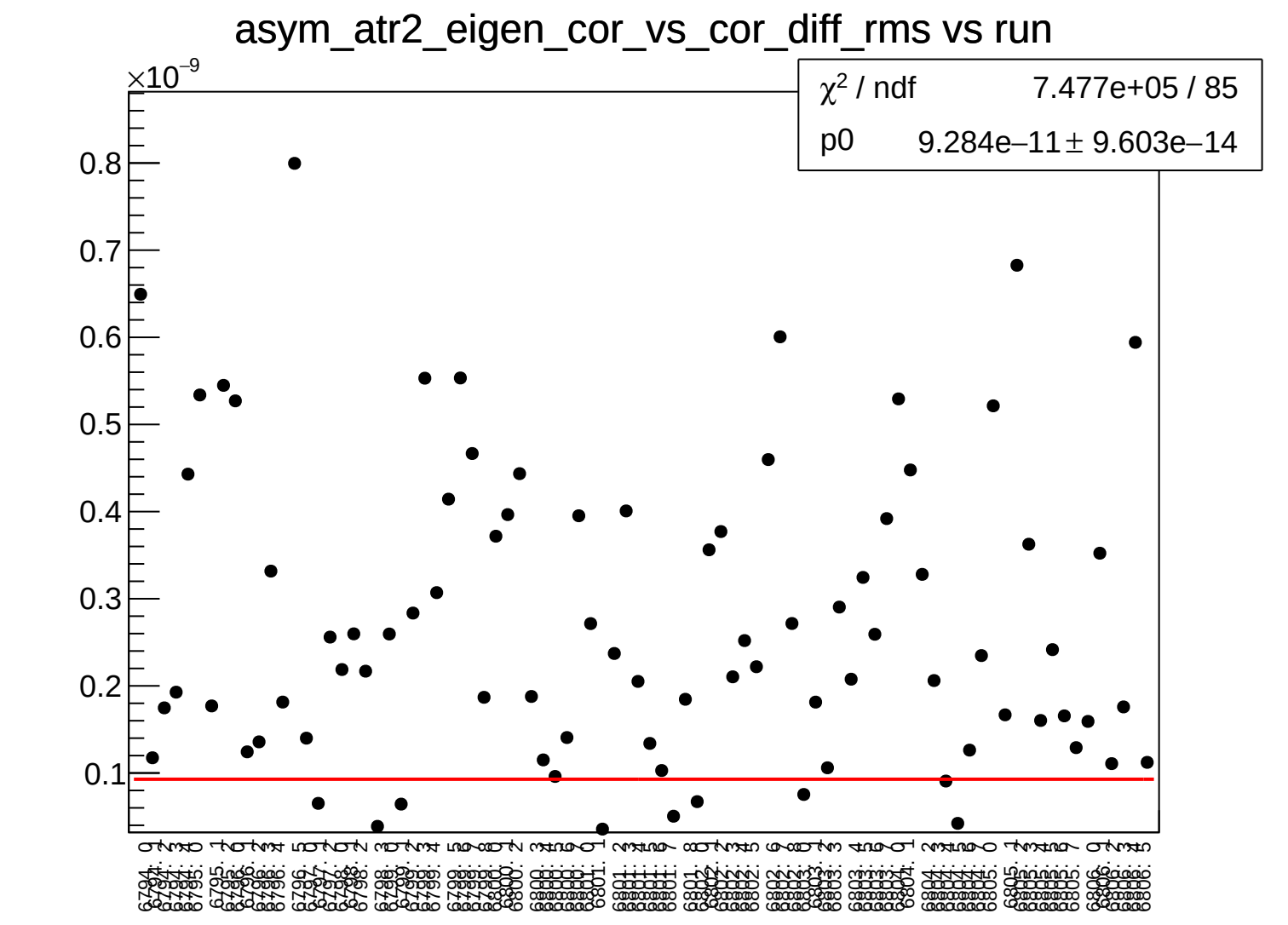

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88 / 85
p0 0.6967 ± 0.599
pull
Entries 86
Mean −53.2
Std Dev 0

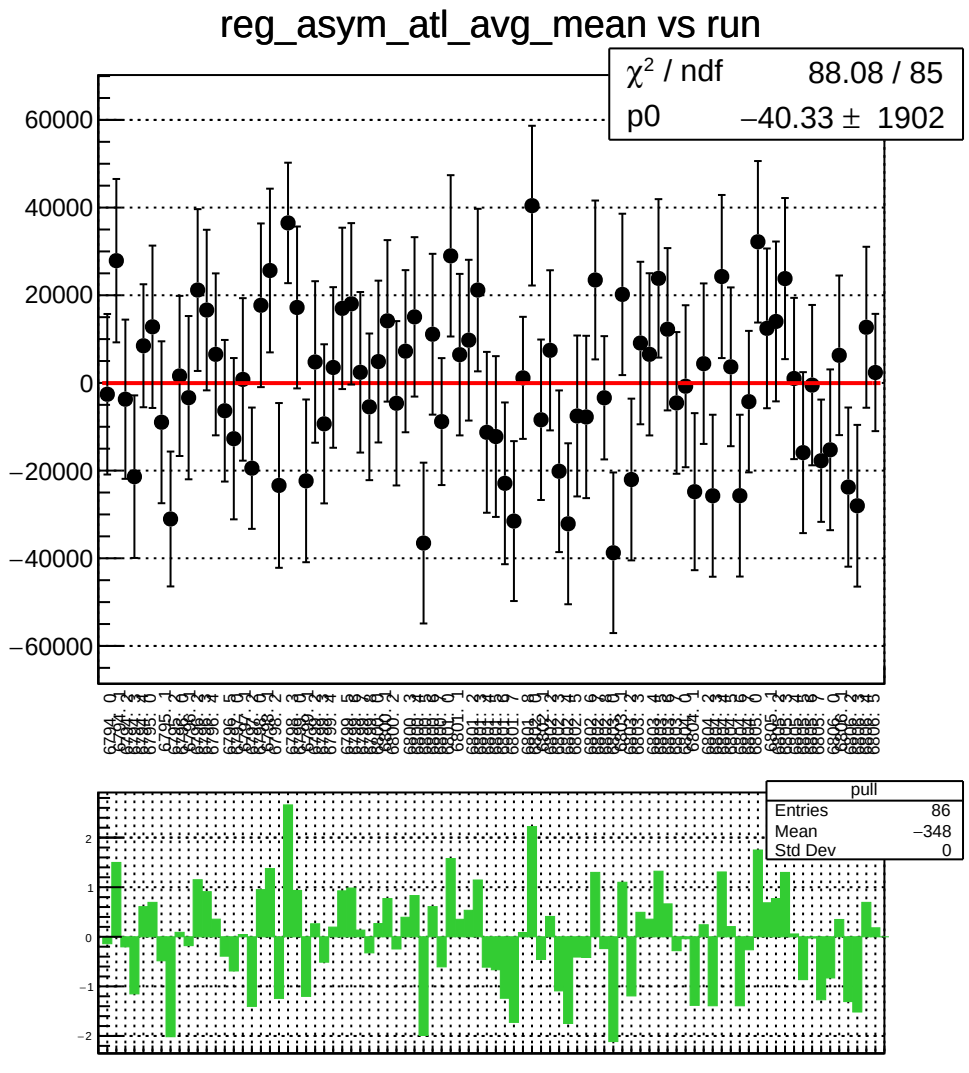

pull1D
Entries 86
Mean −0.01316
Std Dev 1.011

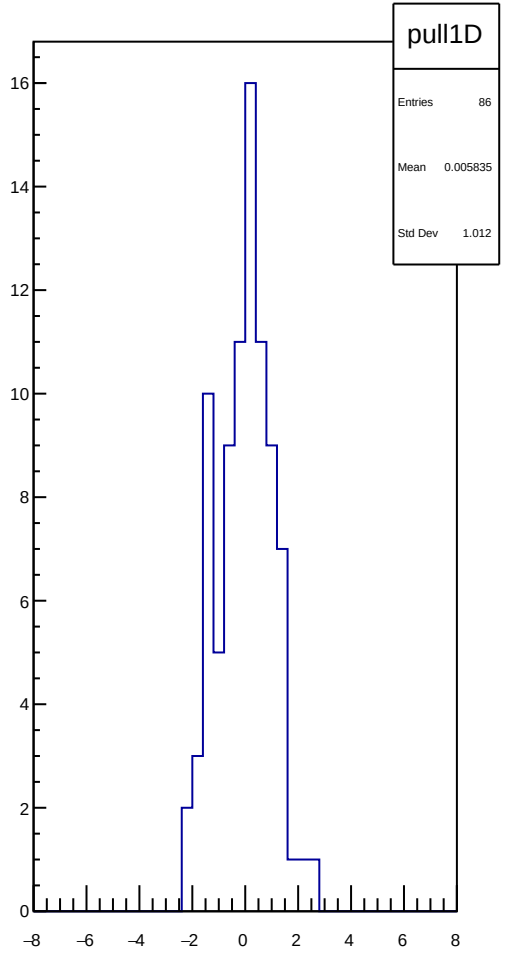

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.166e+04 / 85
p0 547.5 ± 0.4236
850
800
750
700
650
600
550
500
450

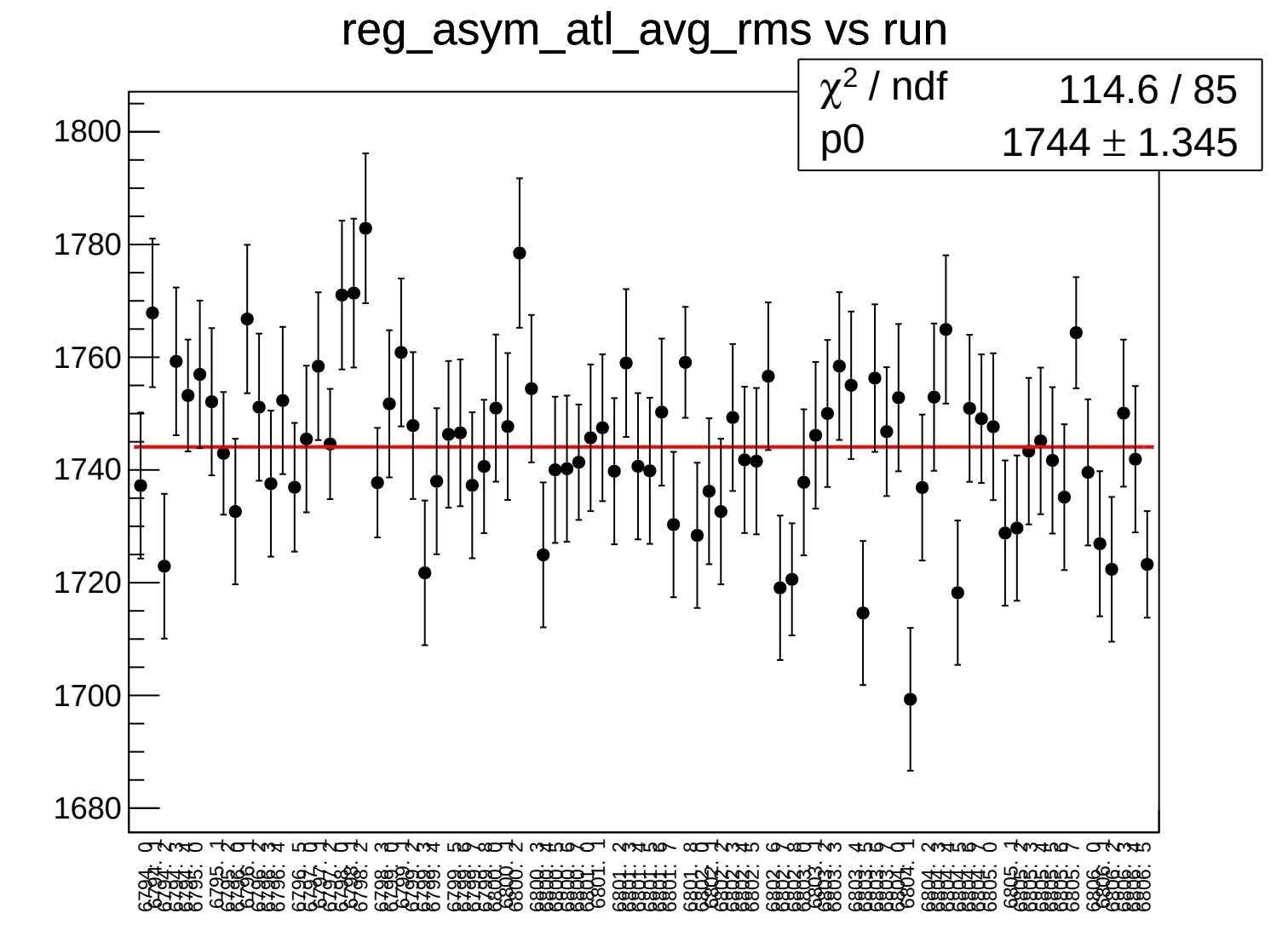

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.7 / 85
p0 1.63e−13 ± 1.358e−13
pull
Entries 86
Mean −24.72
Std Dev 0

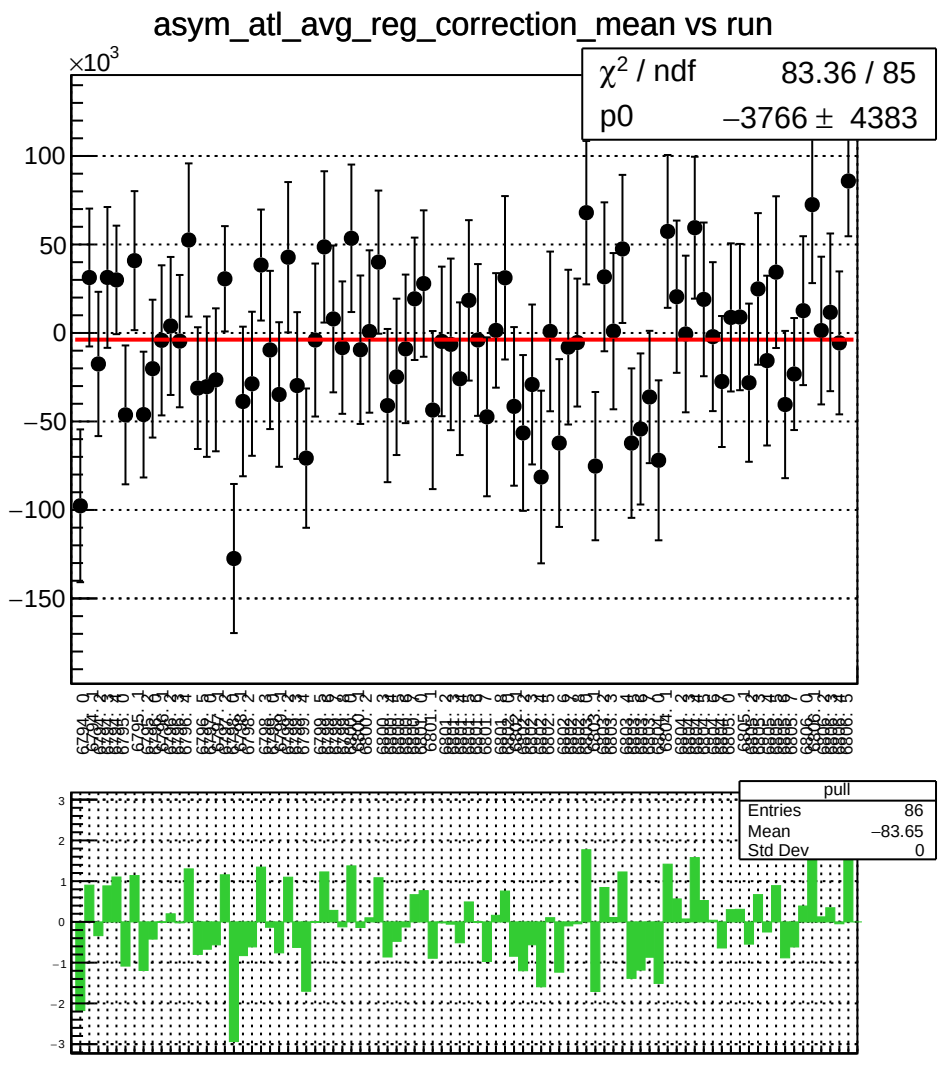

pull1D
Entries 86
Mean −0.0244
Std Dev 1.093

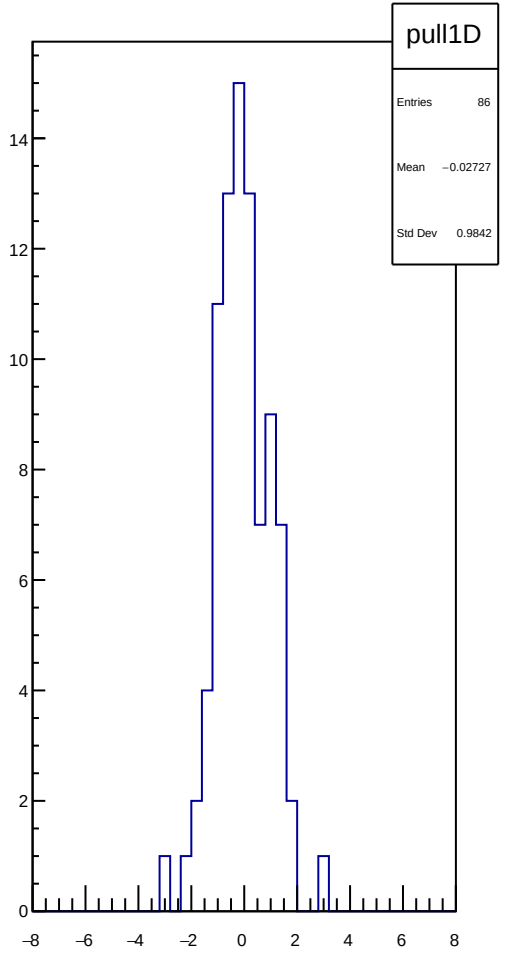

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.477e+05 / 85
p0 9.284e−11 ± 9.603e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

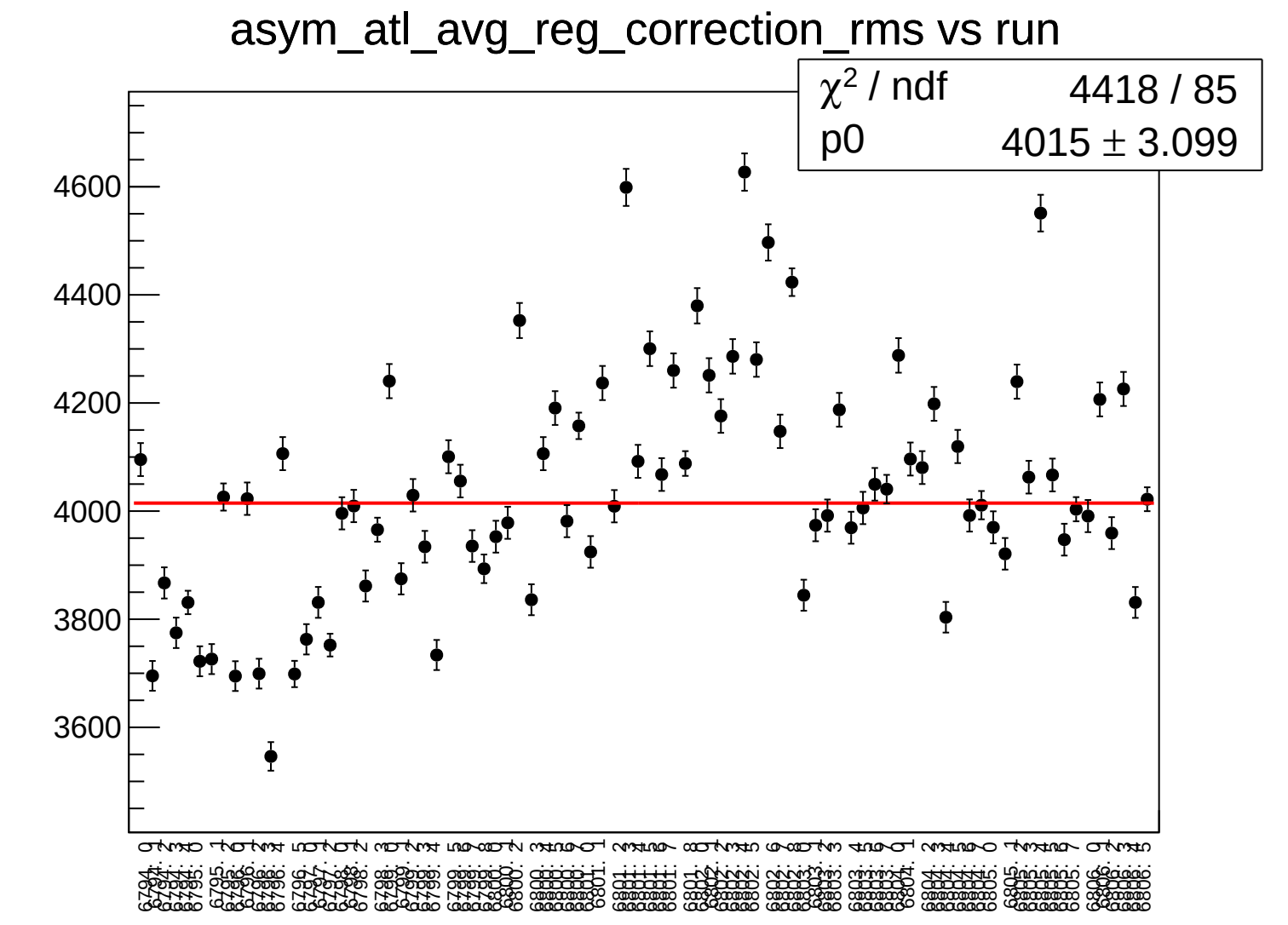

reg_asym_atl_avg_mean vs run
χ² / ndf 88.08 / 85
p0 −40.33 ± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −348
Std Dev 0
2
1
0
−1
−2

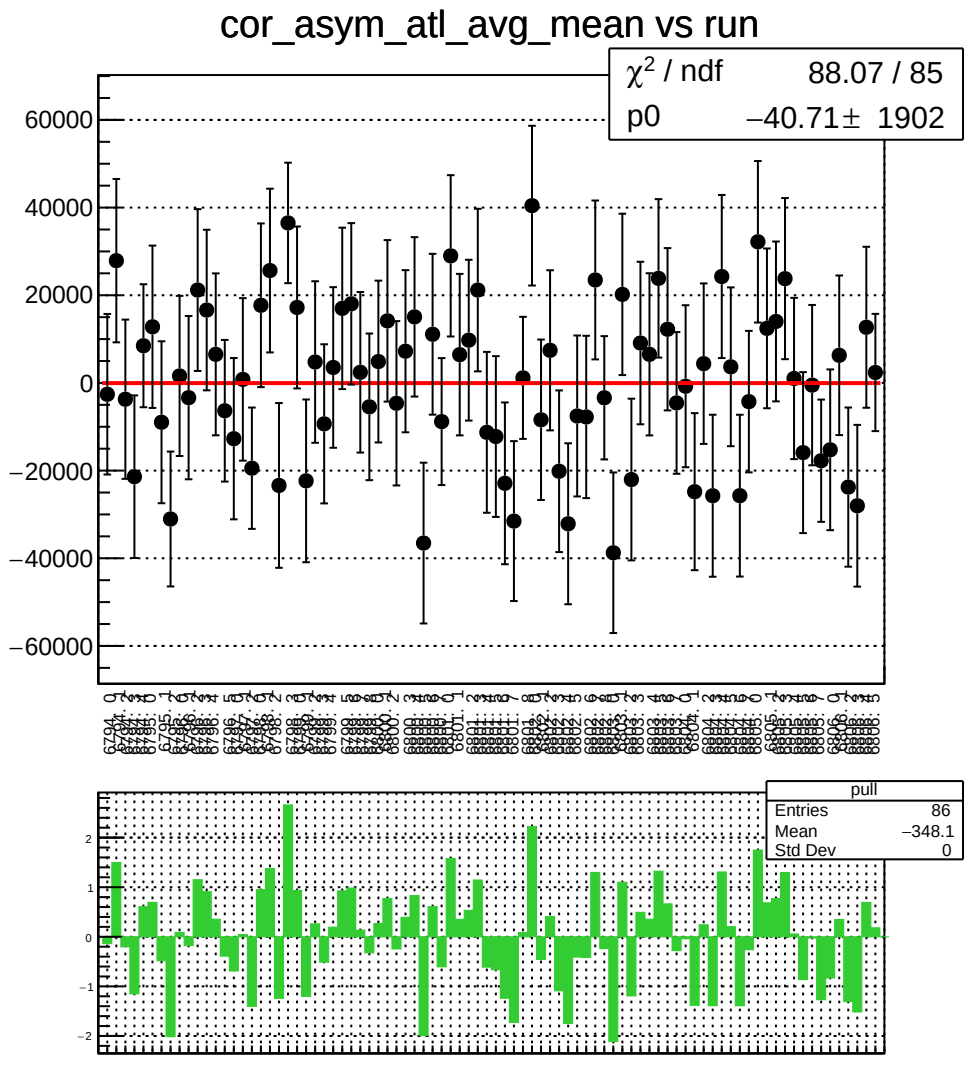

pull1D
Entries 86
Mean 0.005835
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

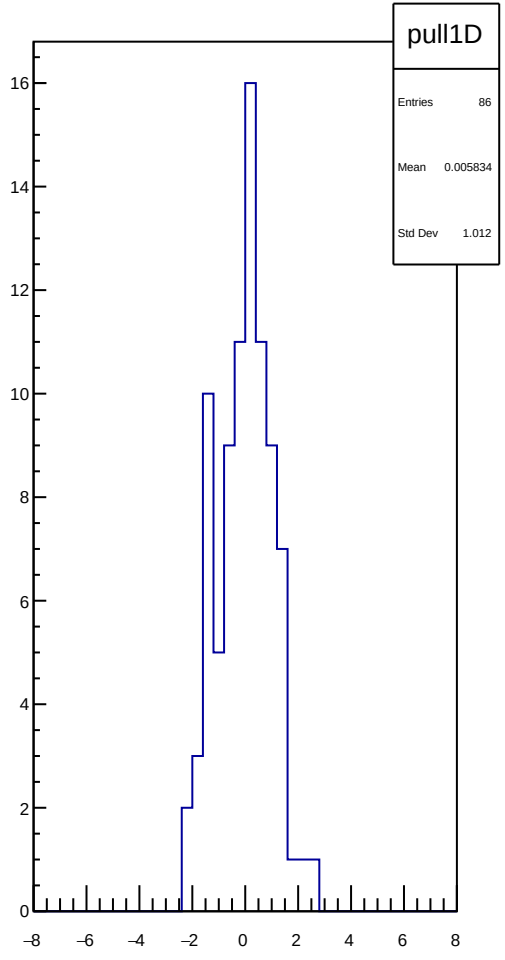

reg_asym_atl_avg_rms vs run
χ² / ndf 114.6 / 85
p0 1744 ± 1.345
1800
1780
1760
1740
1720
1700
1680

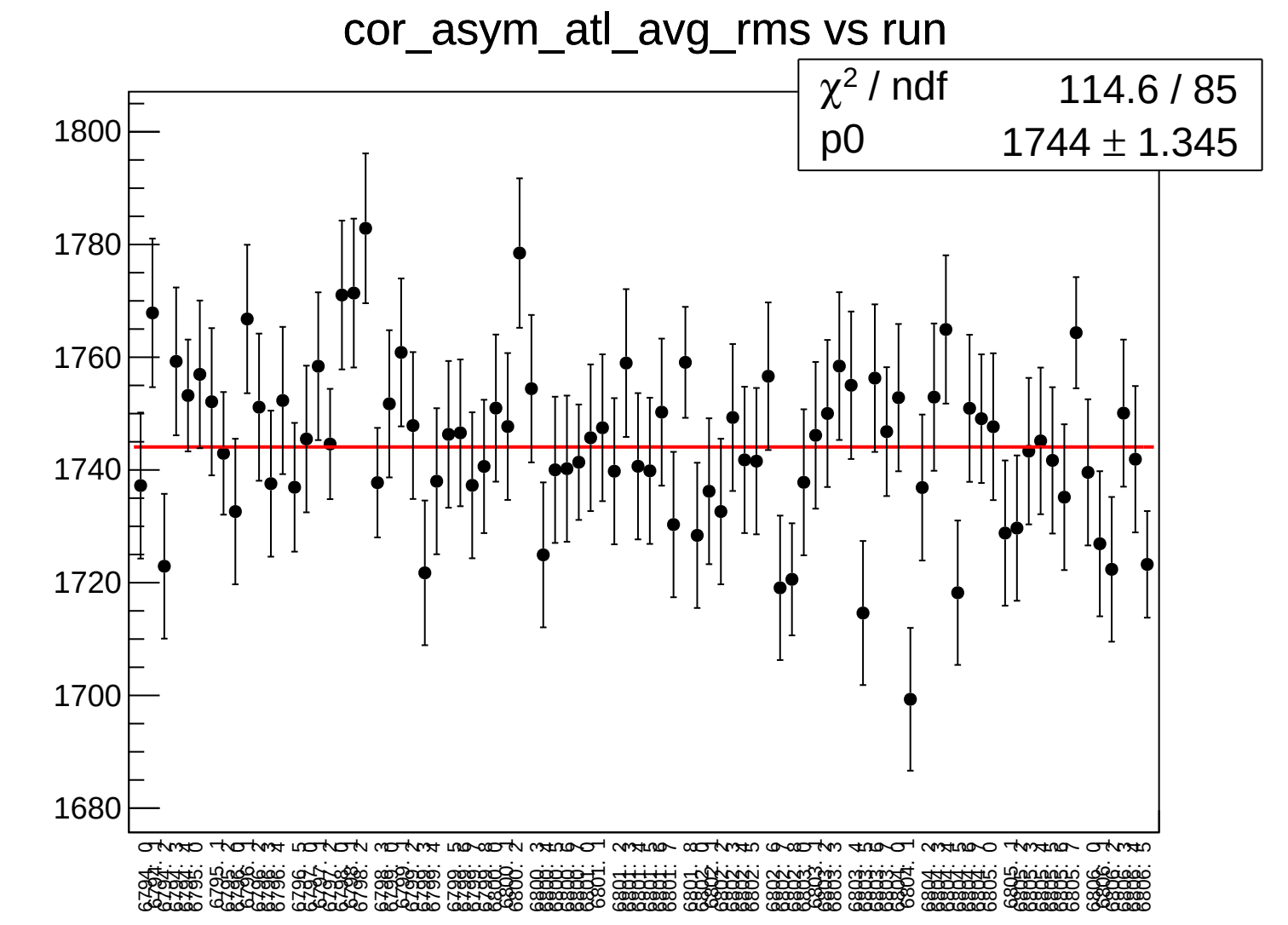

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 83.36 / 85
p0 −3766 ± 4383
100
50
0
−50
−100
−150
pull
Entries 86
Mean −83.65
Std Dev 0
3
2
1
0
−1
−2
−3

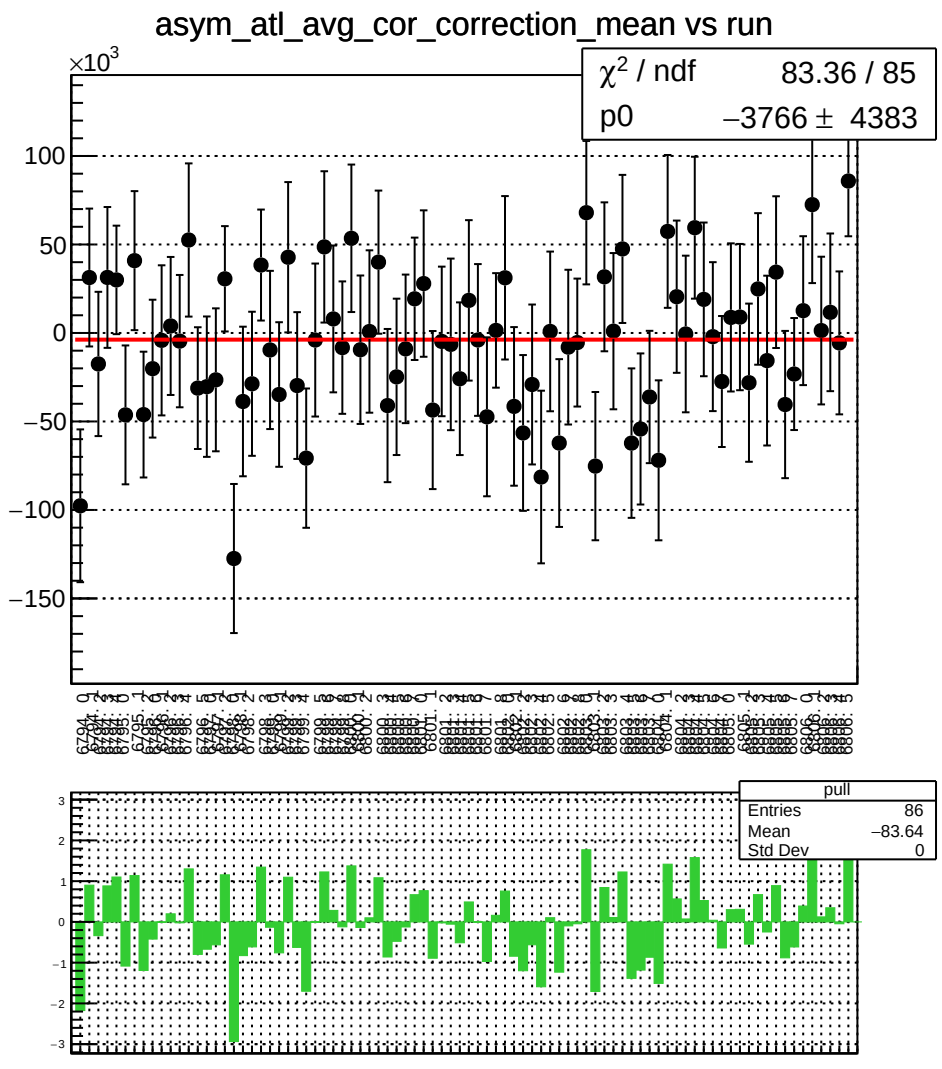

pull1D
Entries 86
Mean −0.02727
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

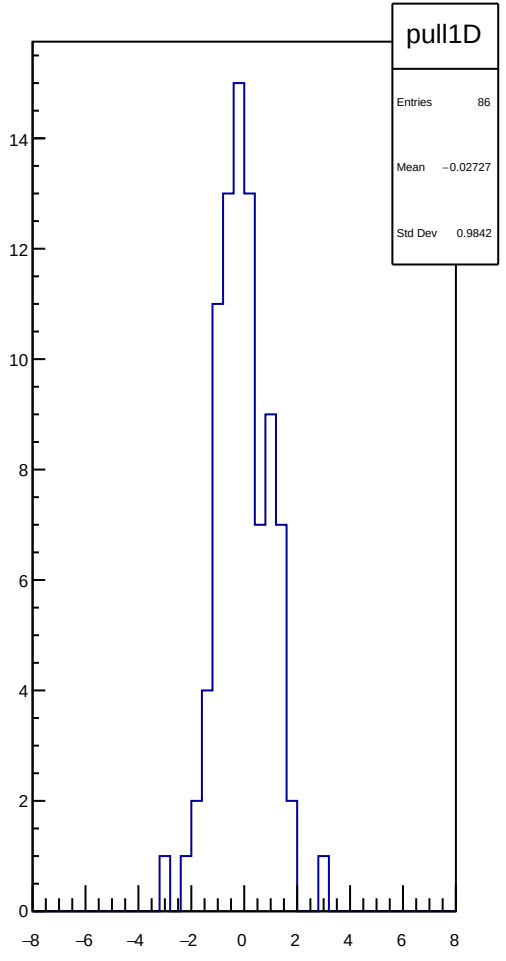

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 4418 / 85
p0 4015 ± 3.099
4600
4400
4200
4000
3800
3600

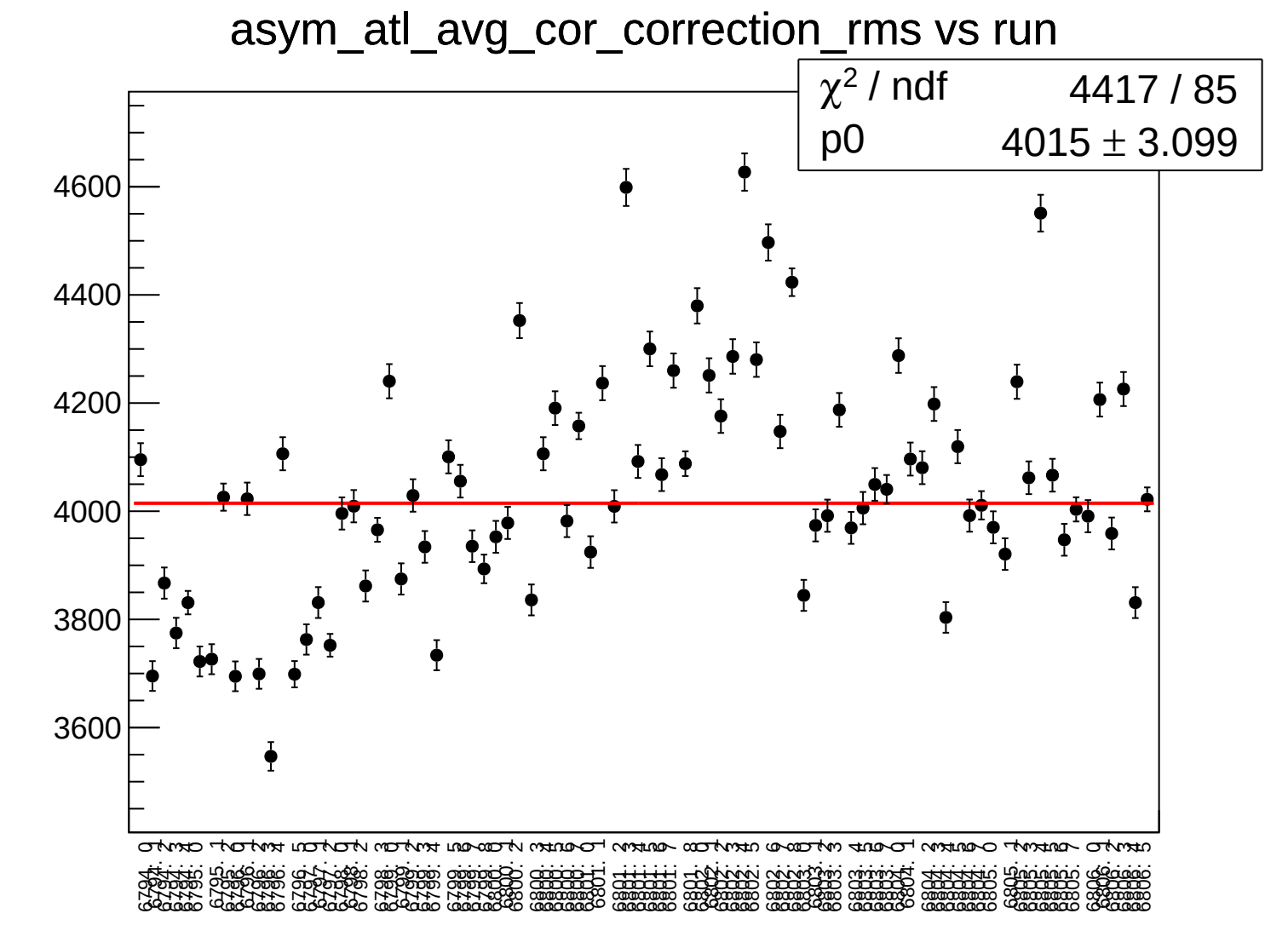

cor_asym_atl_avg_mean vs run
χ² / ndf 88.07 / 85
p0 −40.71± 1902
pull
Entries 86
Mean −348.1
Std Dev 0

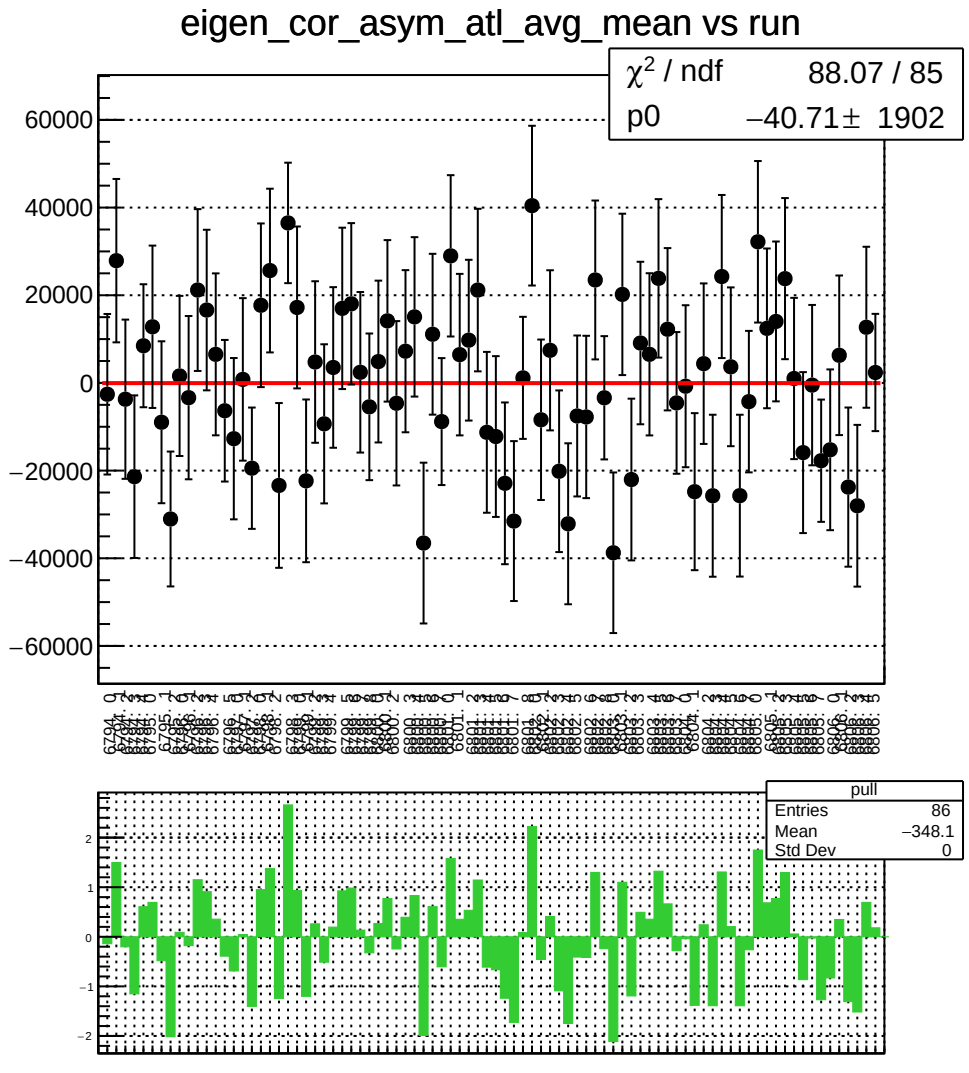

pull1D
Entries 86
Mean 0.005834
Std Dev 1.012

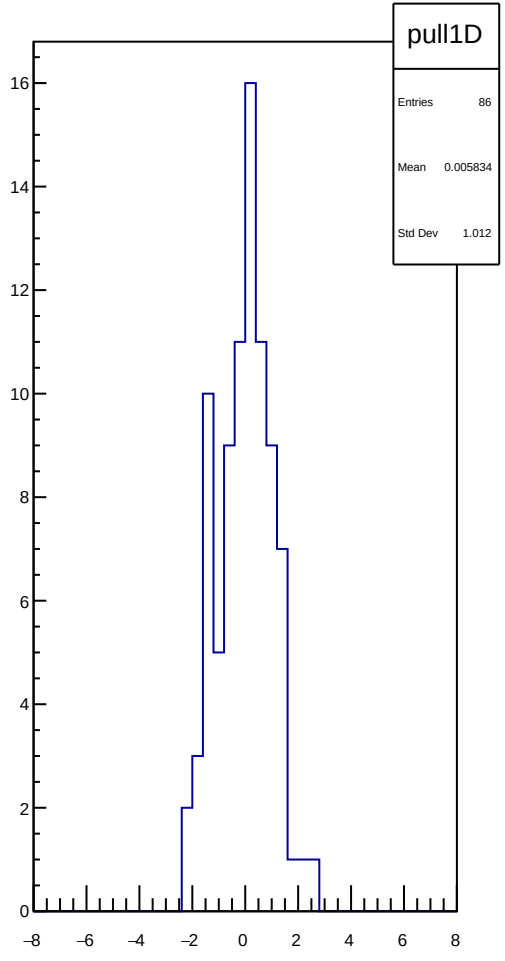

cor_asym_atl_avg_rms vs run
χ^2 / ndf 114.6 / 85
p0 1744 ± 1.345
1800
1780
1760
1740
1720
1700
1680

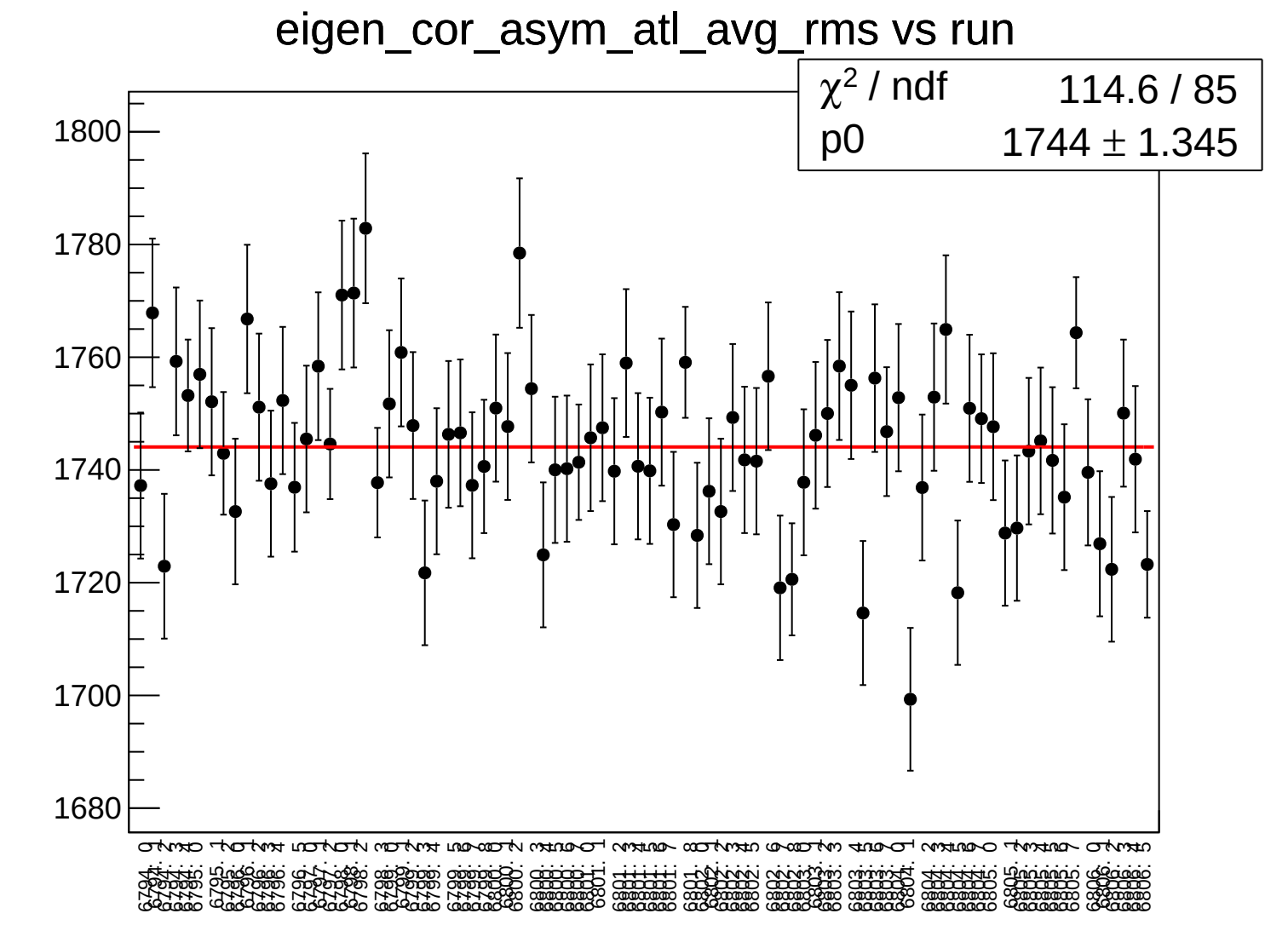

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 83.36 / 85
p0 −3766 ± 4383
100
50
0
−50
−100
−150
pull
Entries 86
Mean −83.64
Std Dev 0
3
2
1
0
−1
−2
−3

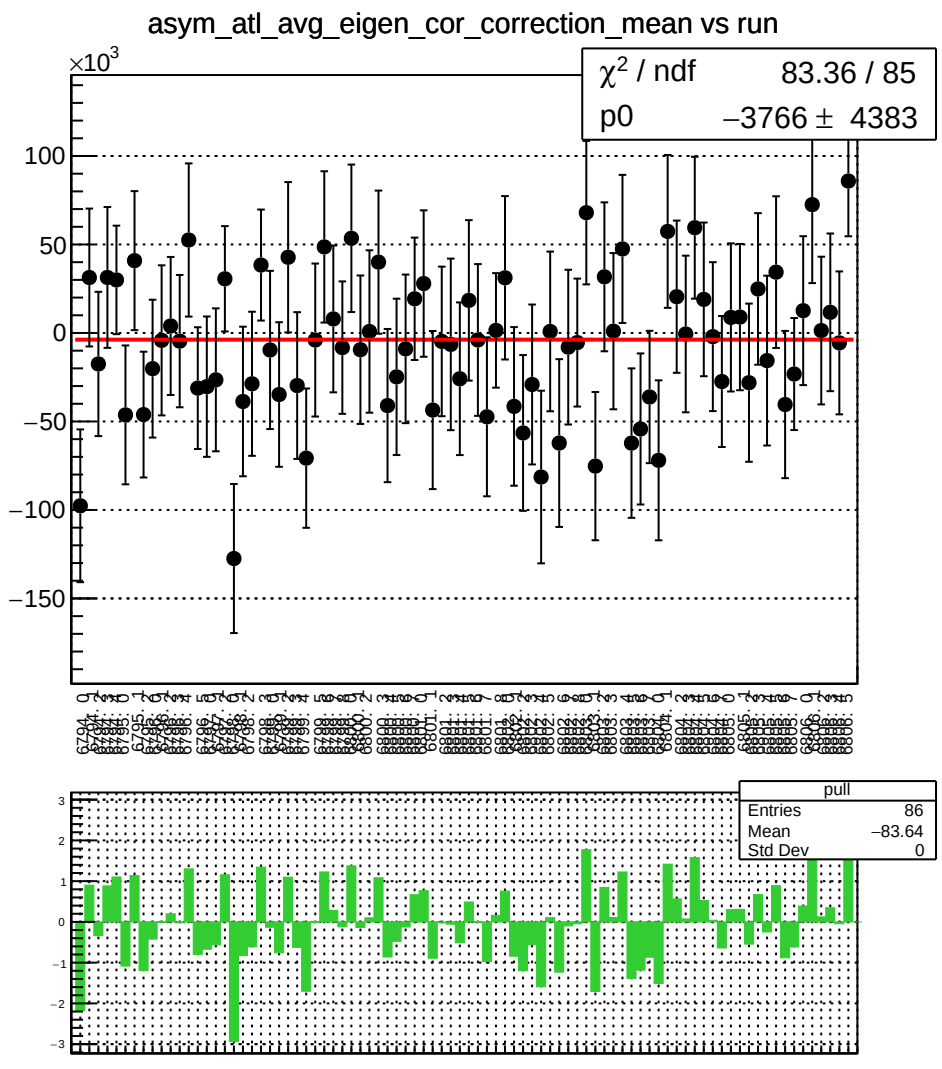

pull1D
Entries 86
Mean −0.02727
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

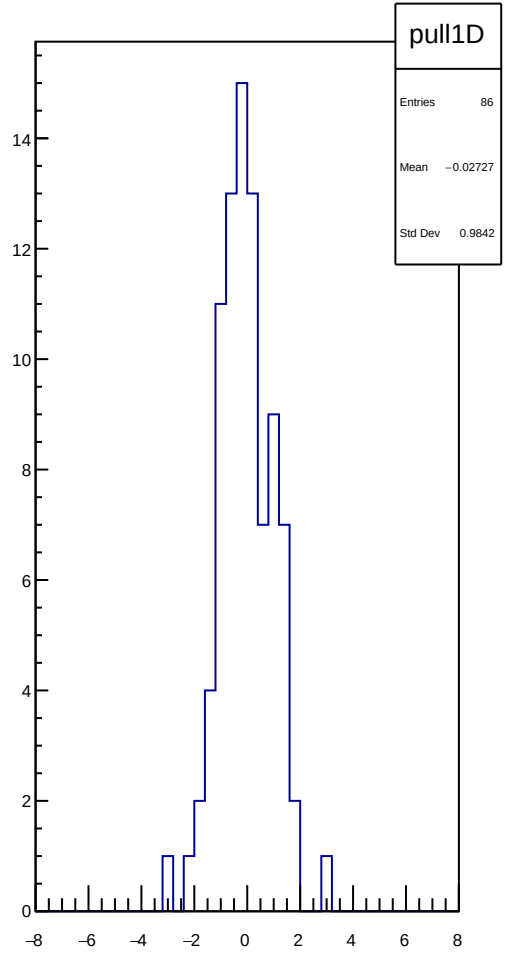

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 4417 / 85
p0 4015 ± 3.099
4600
4400
4200
4000
3800
3600

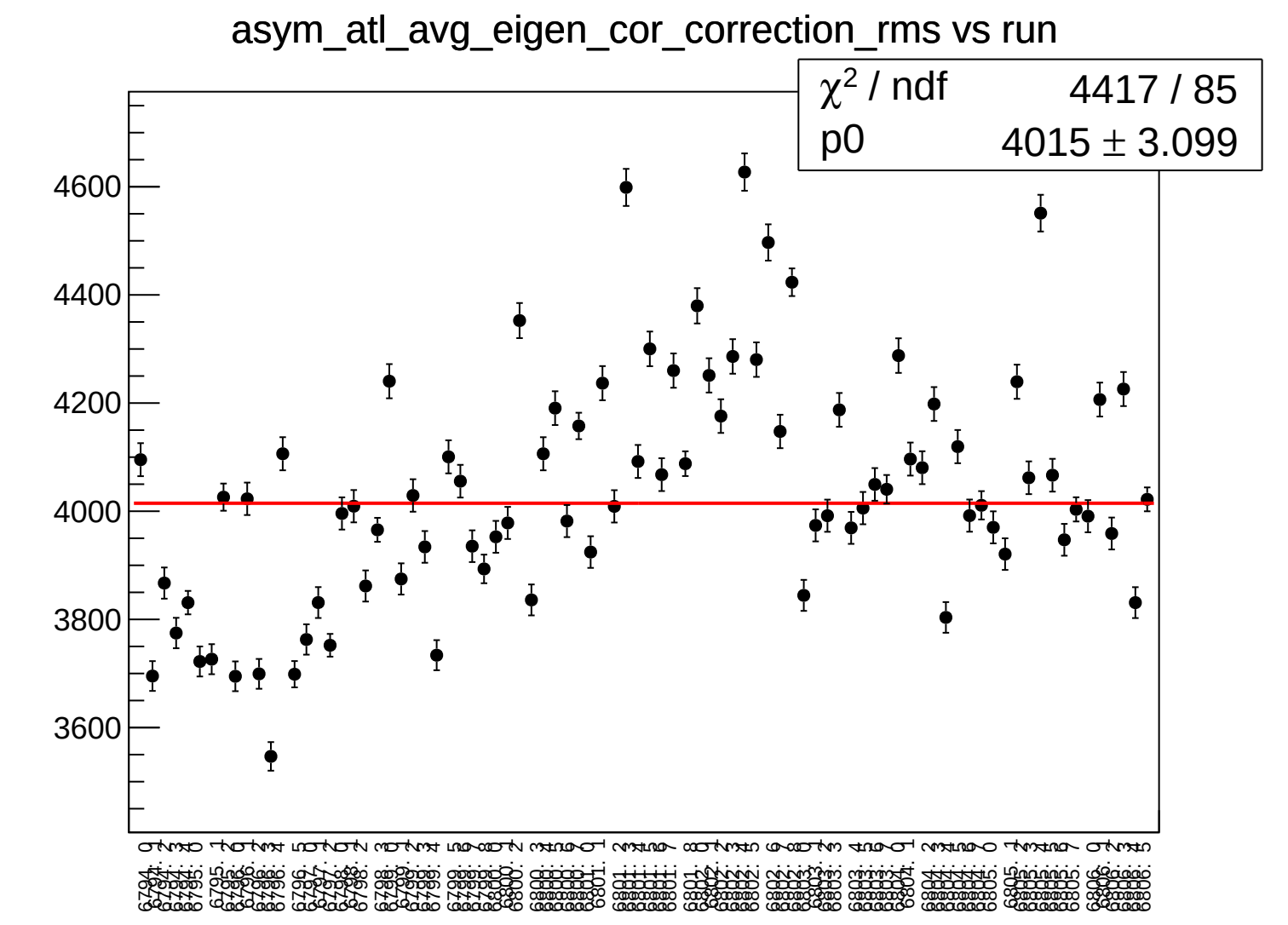

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 88.07 / 85
p0 −40.71± 1902
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −348.1
Std Dev 0
2
1
0
−1
−2

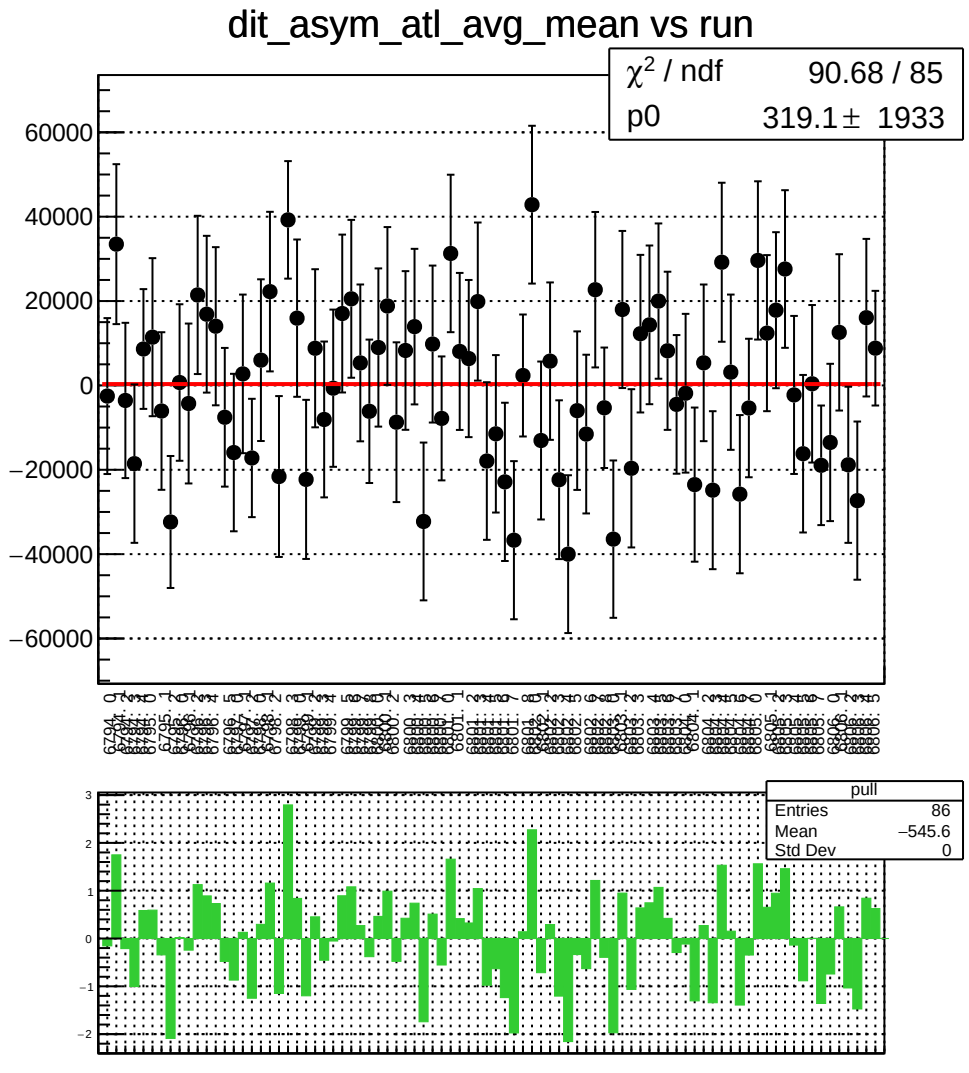

pull1D
Entries 86
Mean 0.005834
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

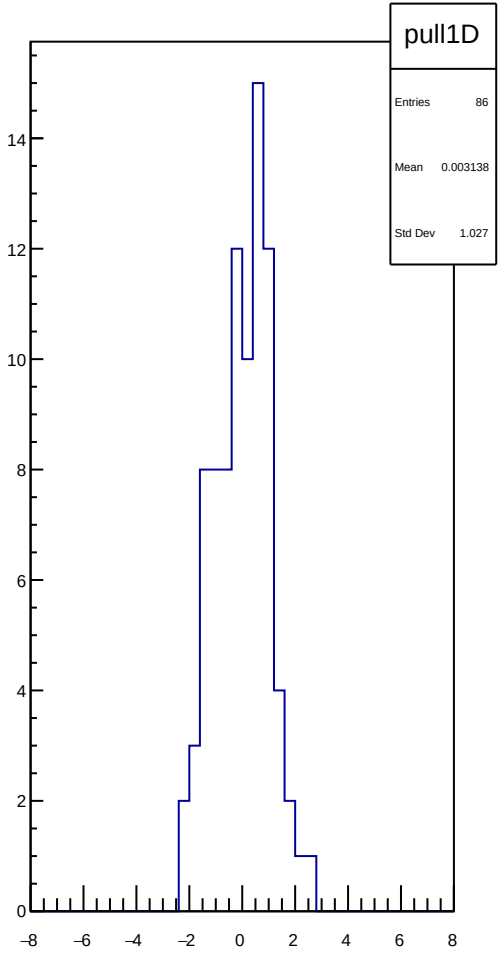

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 114.6 / 85
p0 1744 ± 1.345
1800
1780
1760
1740
1720
1700
1680

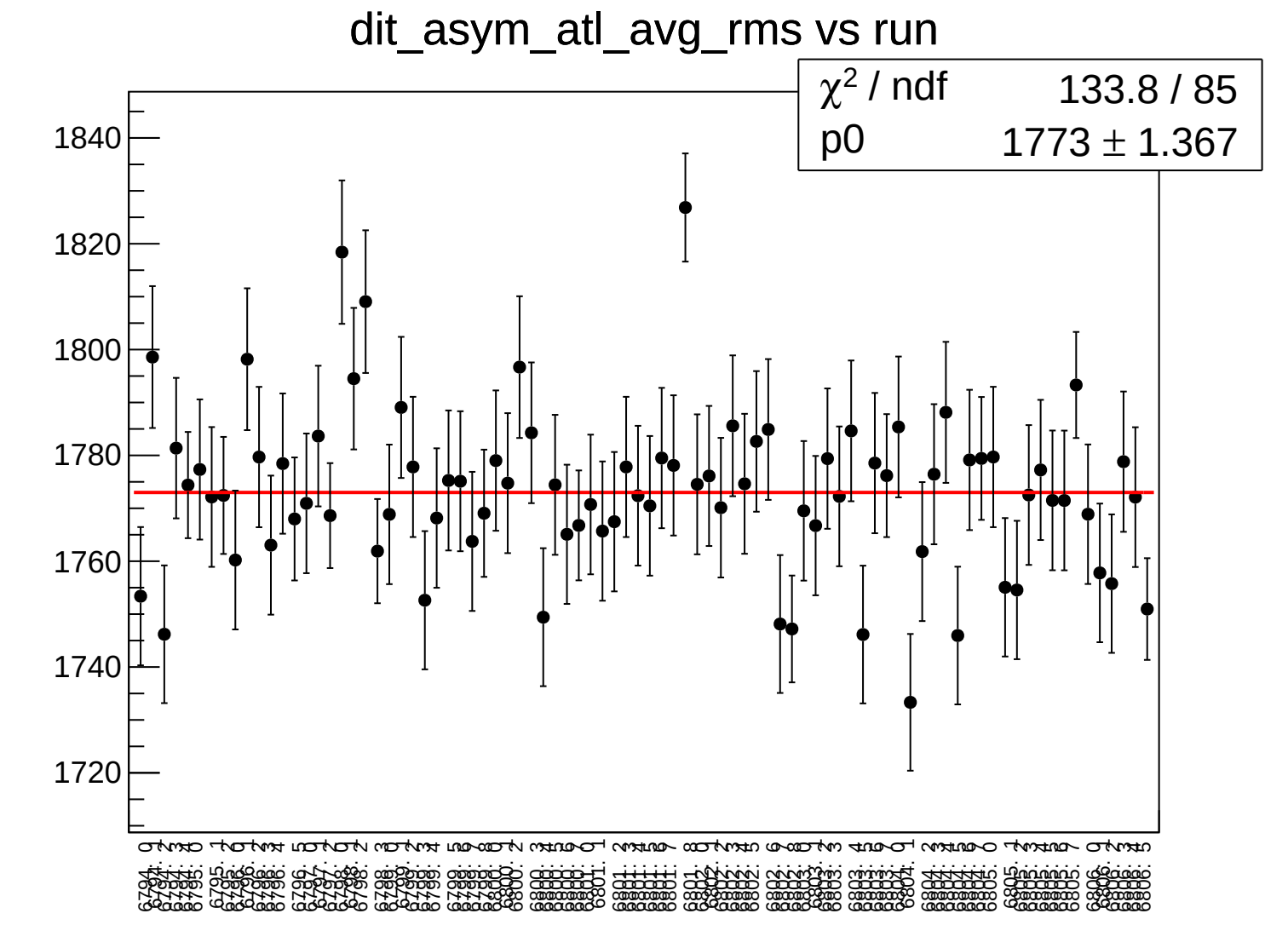

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 83.36 / 85
p0 −3766 ± 4383
100
50
0
−50
−100
−150
pull
Entries 86
Mean −83.64
Std Dev 0
3
2
1
0
−1
−2
−3

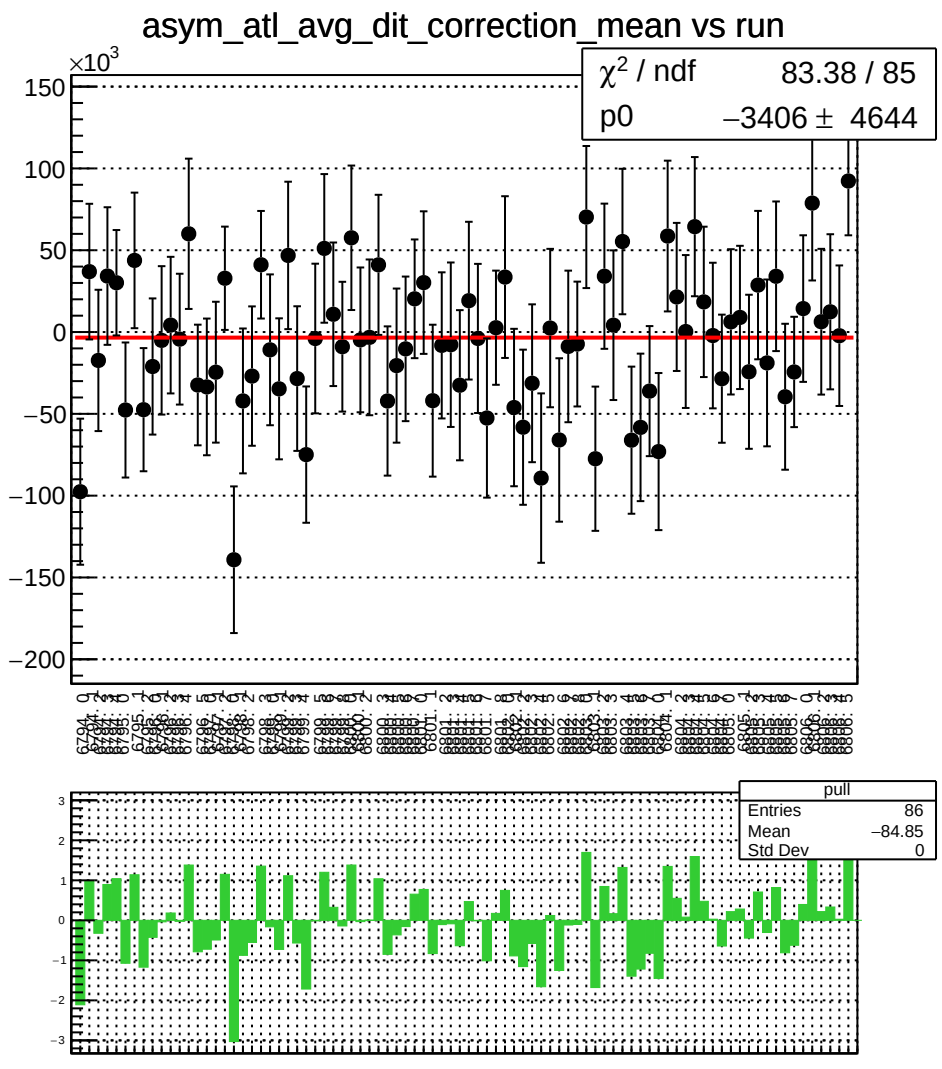

pull1D
Entries 86
Mean −0.02727
Std Dev 0.9842
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

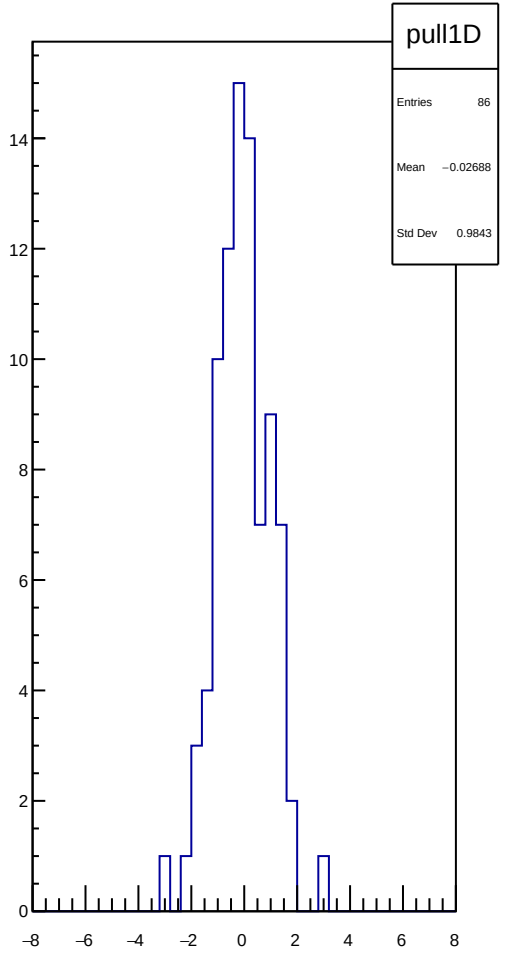

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 4417 / 85
p0 4015 ± 3.099
4600
4400
4200
4000
3800
3600

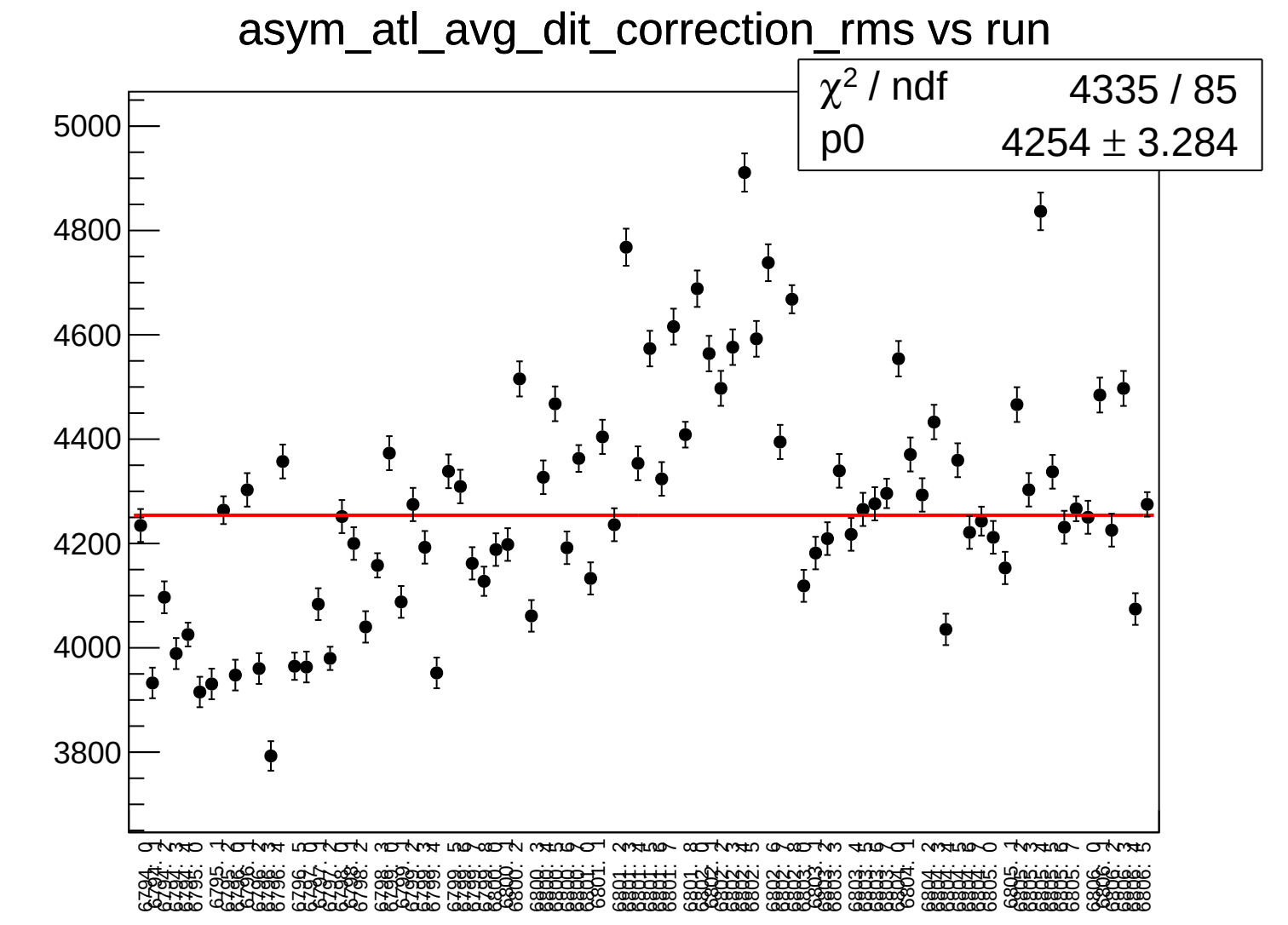

dit_asym_atl_avg_mean vs run
χ² / ndf 90.68 / 85
p0 319.1 ± 1933
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −545.6
Std Dev 0
3
2
1
0
−1
−2

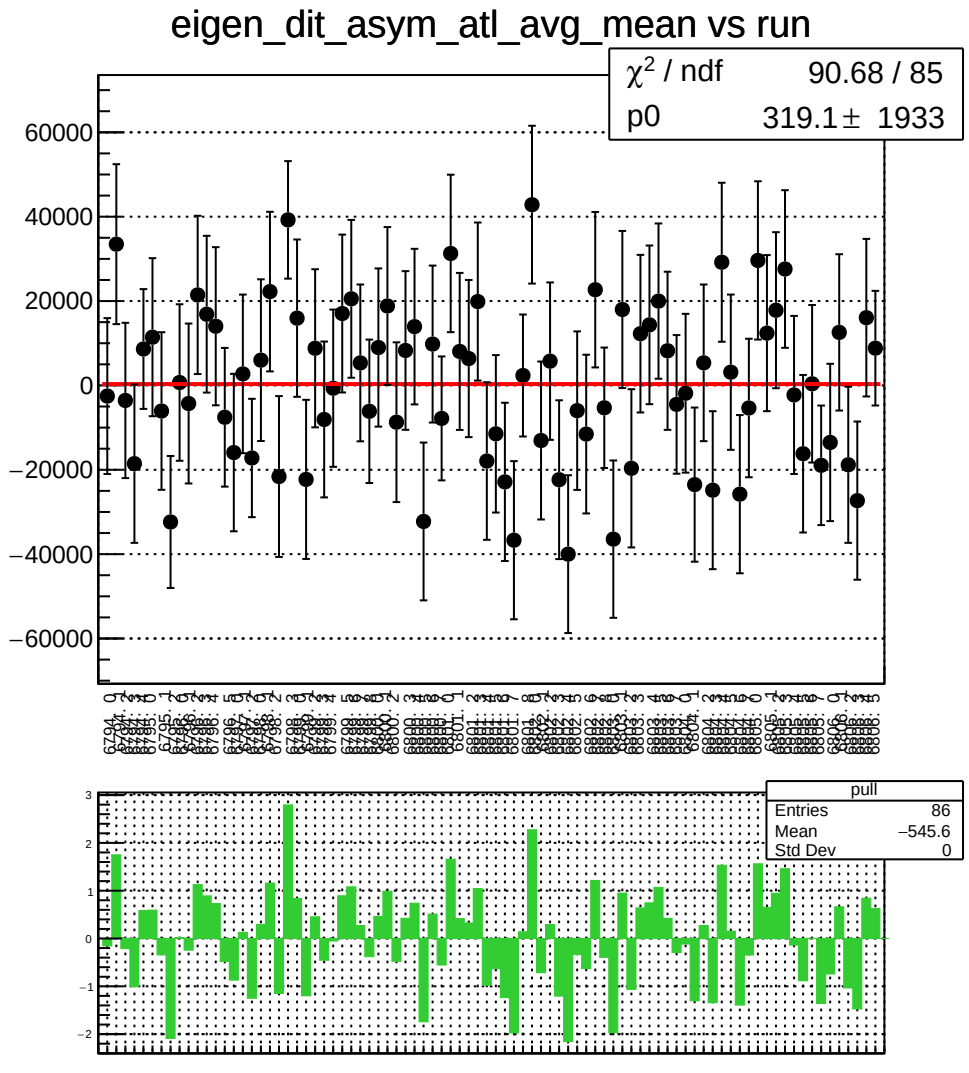

pull1D
Entries 86
Mean 0.003138
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

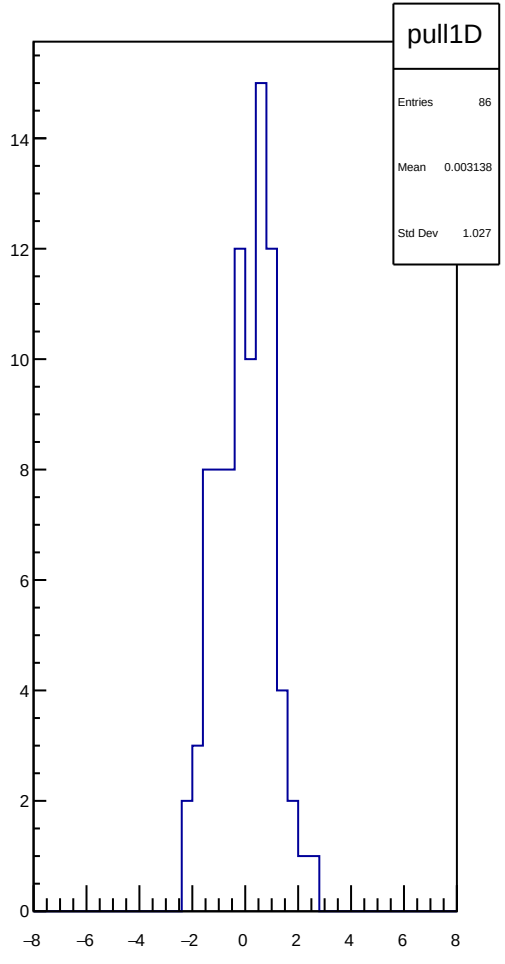

dit_asym_atl_avg_rms vs run
χ^2 / ndf 133.8 / 85
p0 1773 ± 1.367
1840
1820
1800
1780
1760
1740
1720

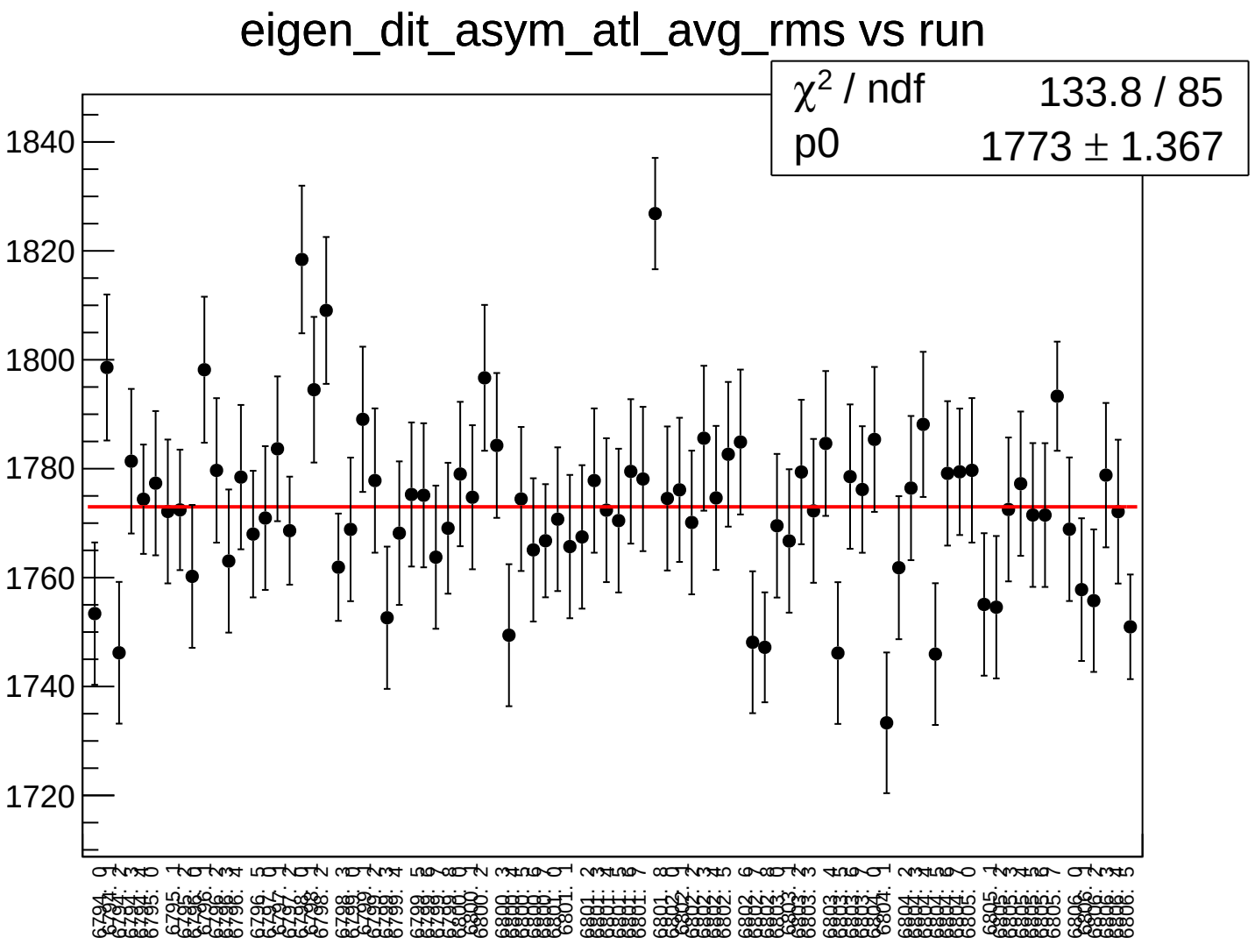

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 83.38 / 85
p0 −3406 ± 4644
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −84.85
Std Dev 0
3
2
1
0
−1
−2
−3

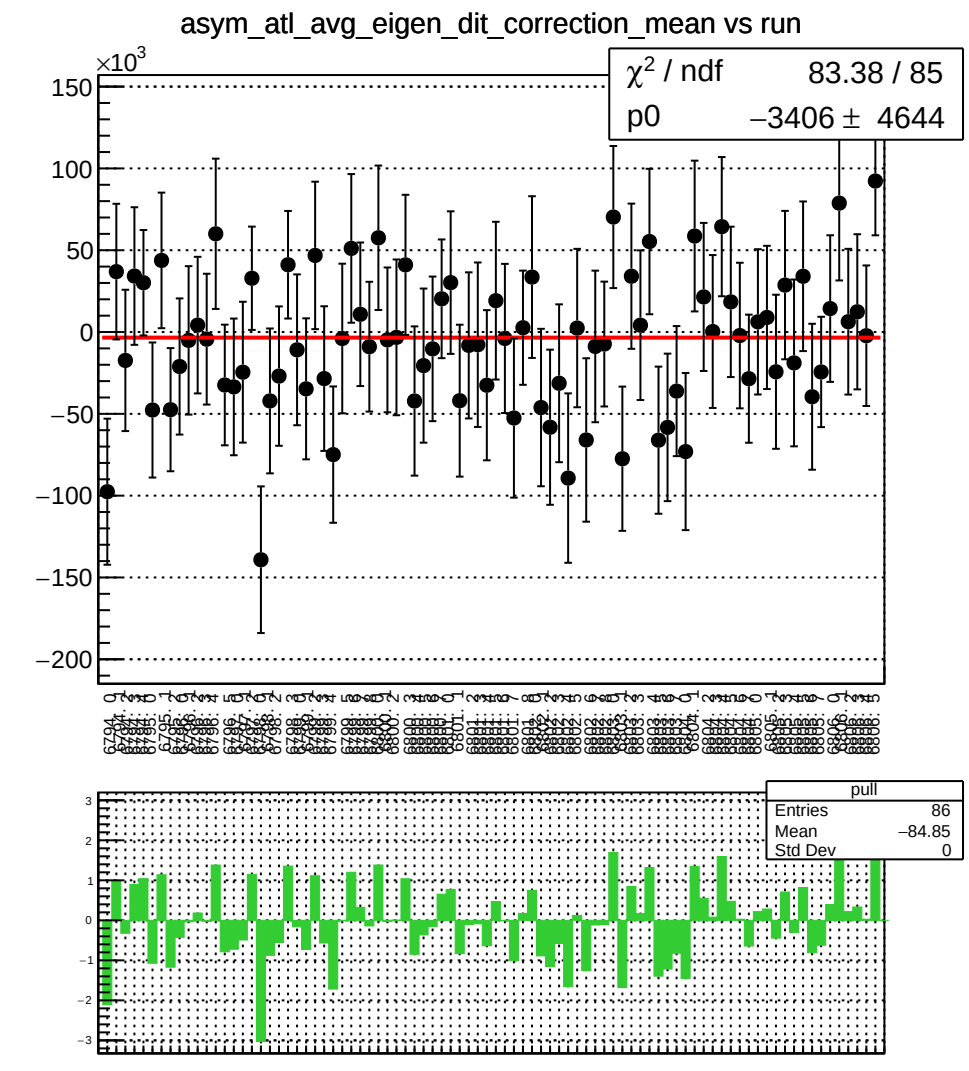

pull1D
Entries 86
Mean −0.02688
Std Dev 0.9843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

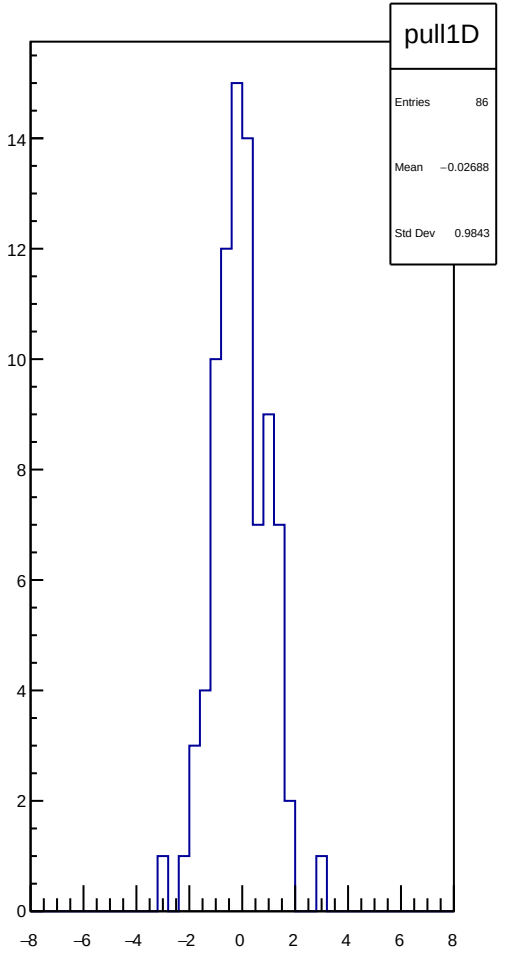

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 4335 / 85
p0 4254 ± 3.284
5000
4800
4600
4400
4200
4000
3800

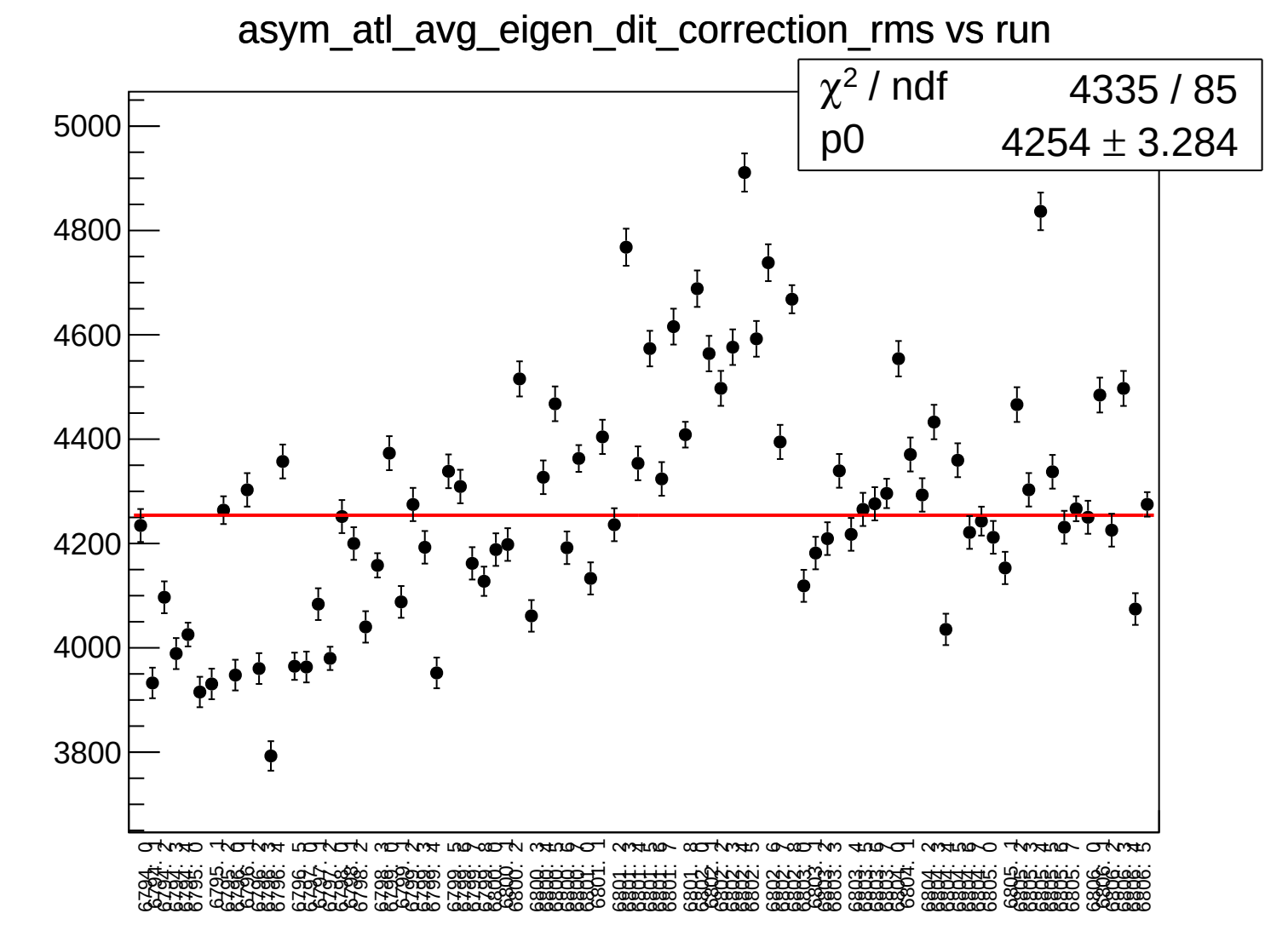

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 90.68 / 85
p0 319.1 ± 1933
pull
Entries 86
Mean −545.6
Std Dev 0

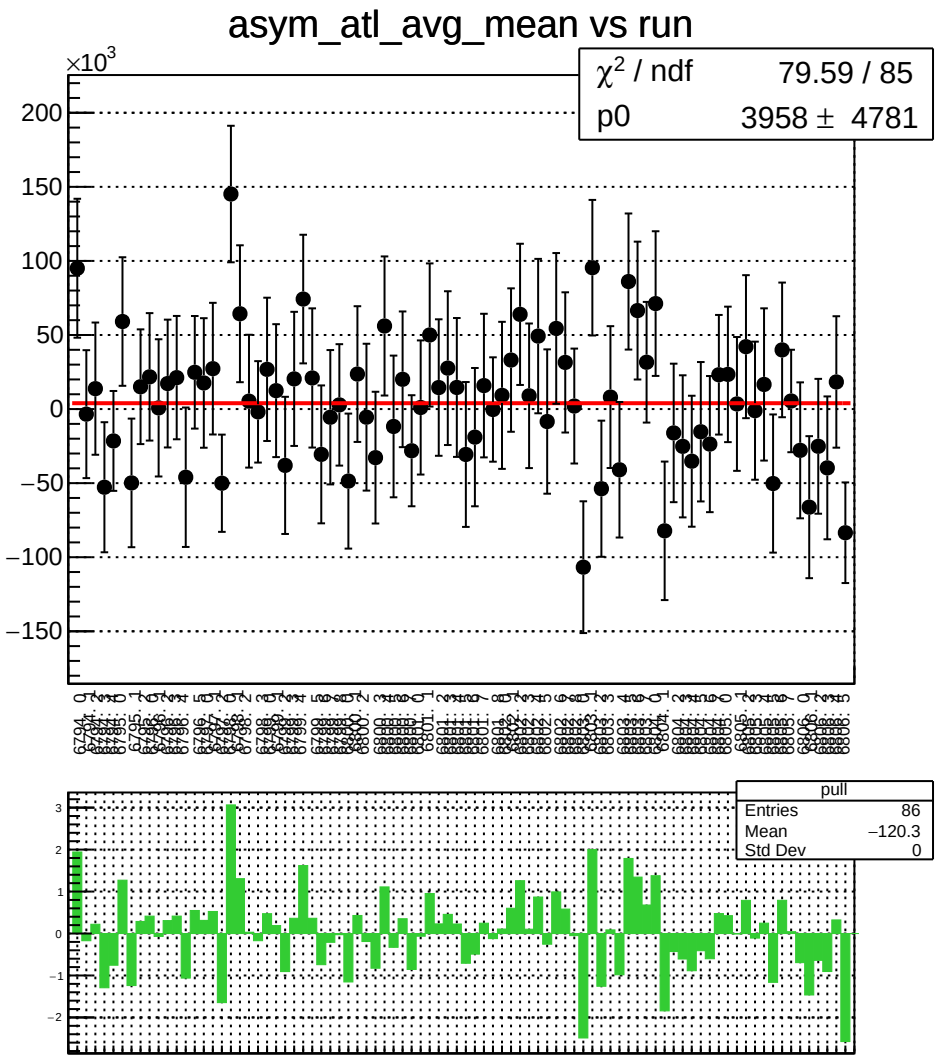

pull1D
Entries 86
Mean 0.003138
Std Dev 1.027

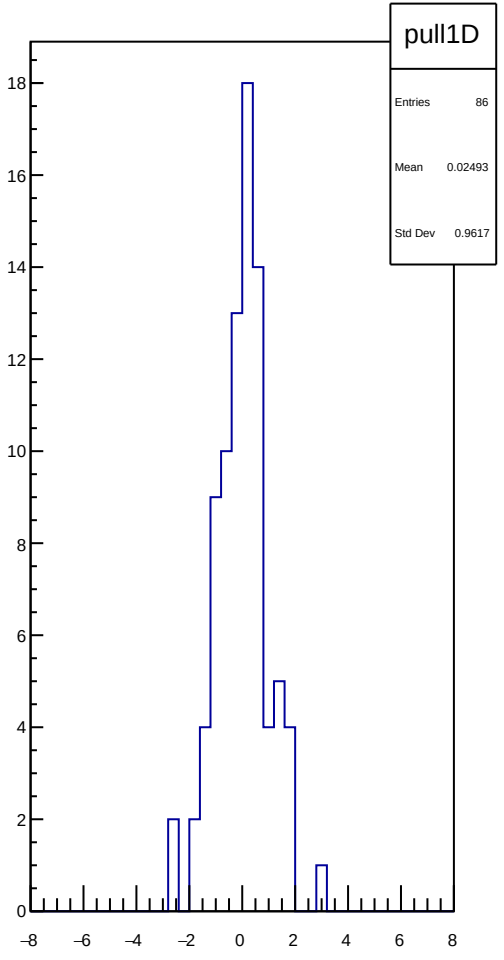

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 133.8 / 85
p0 1773 ± 1.367
1840
1820
1800
1780
1760
1740
1720

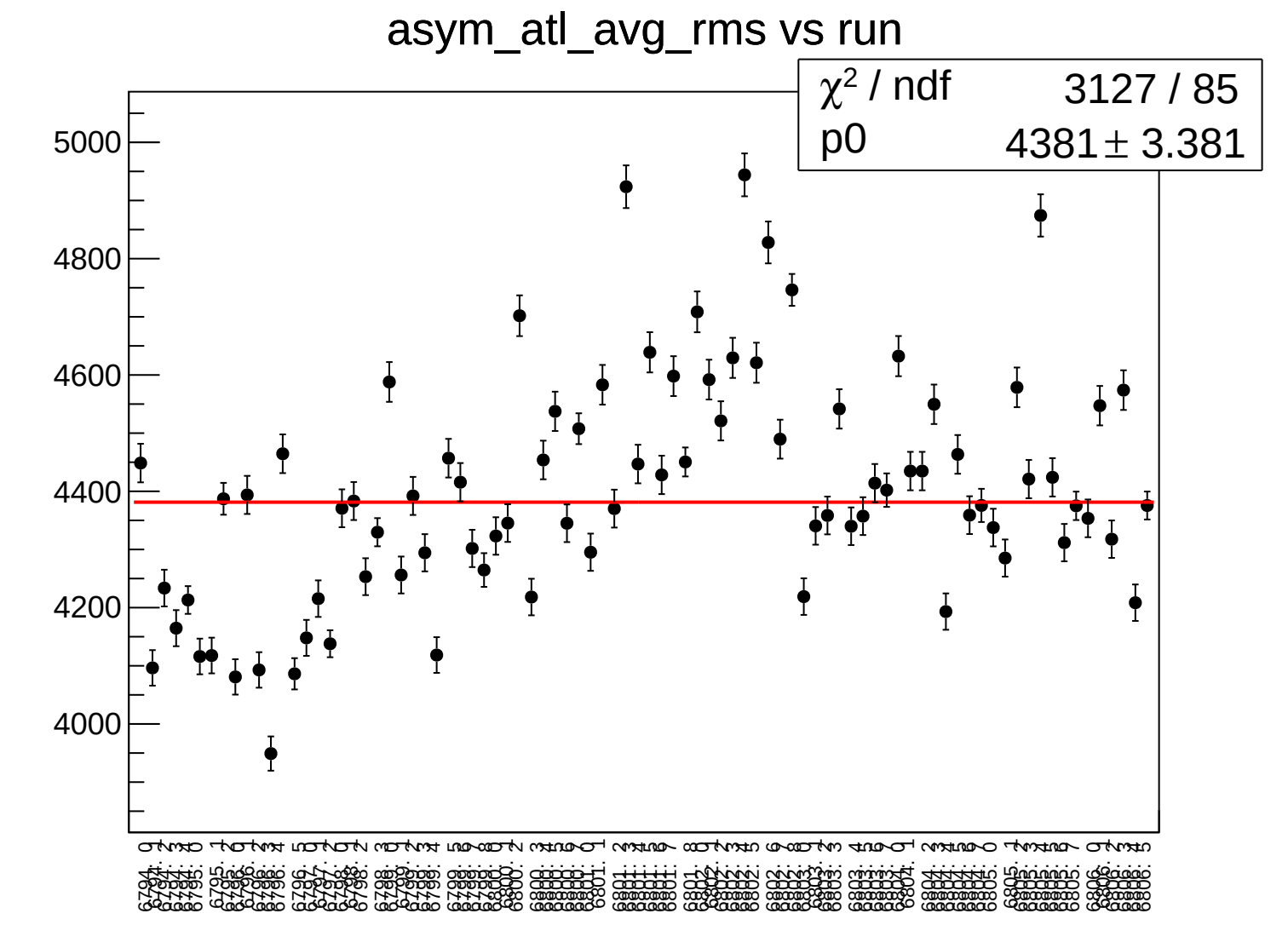

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 83.38 / 85
p0 −3406 ± 4644
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −84.85
Std Dev 0
3
2
1
0
−1
−2
−3

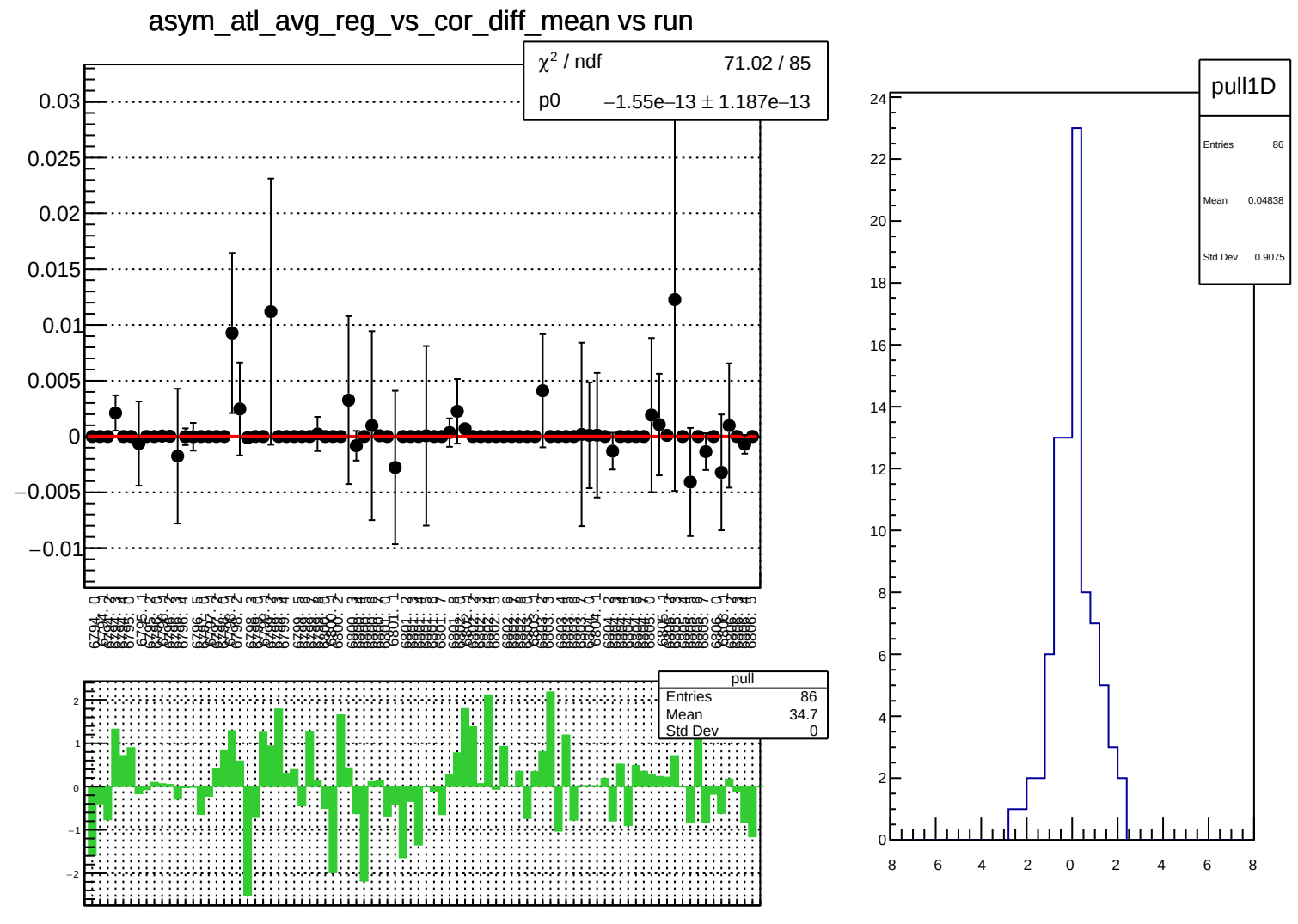

pull1D
Entries 86
Mean −0.02688
Std Dev 0.9843
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

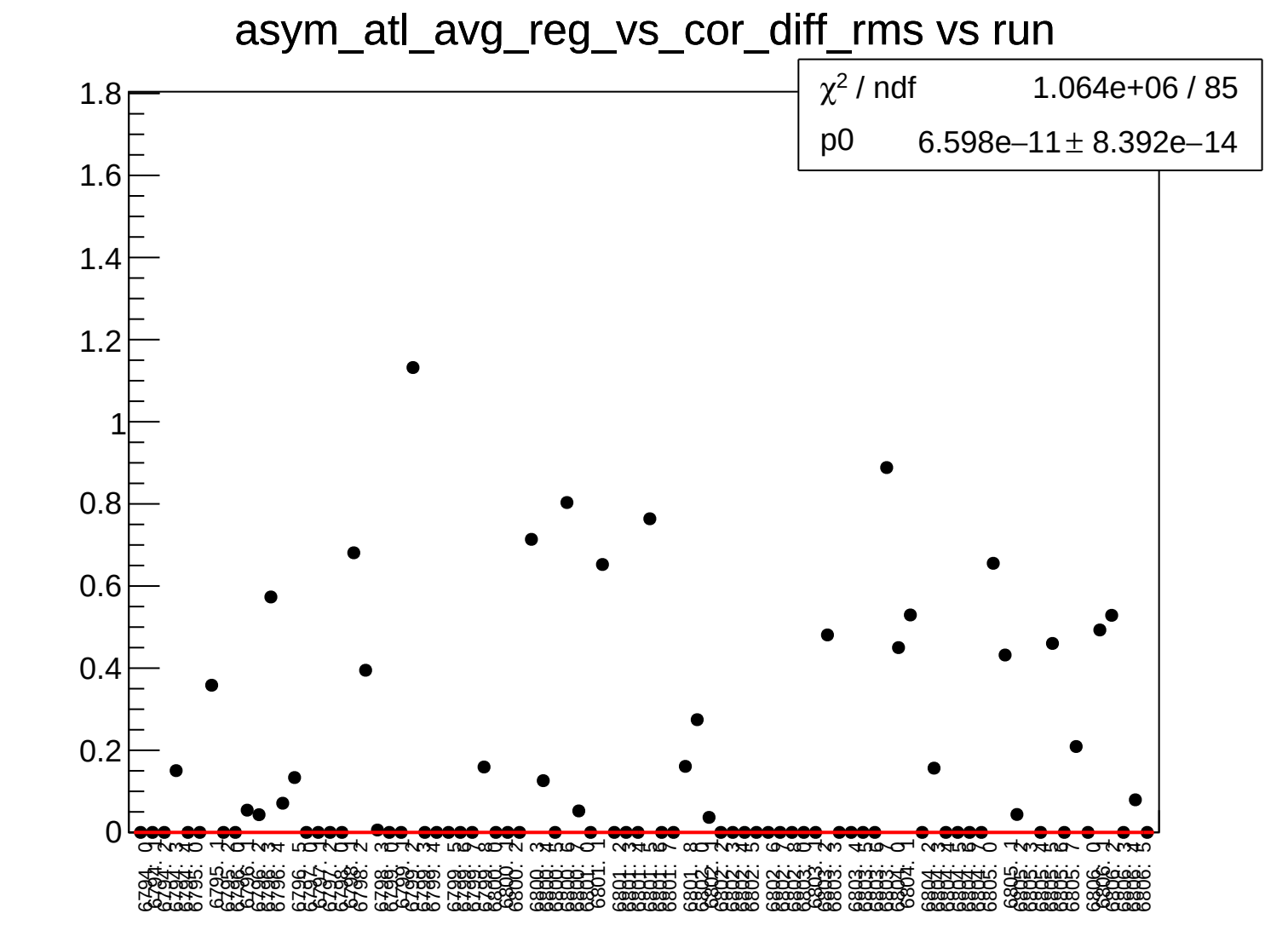

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 4335 / 85
p0 4254 ± 3.284
5000
4800
4600
4400
4200
4000
3800

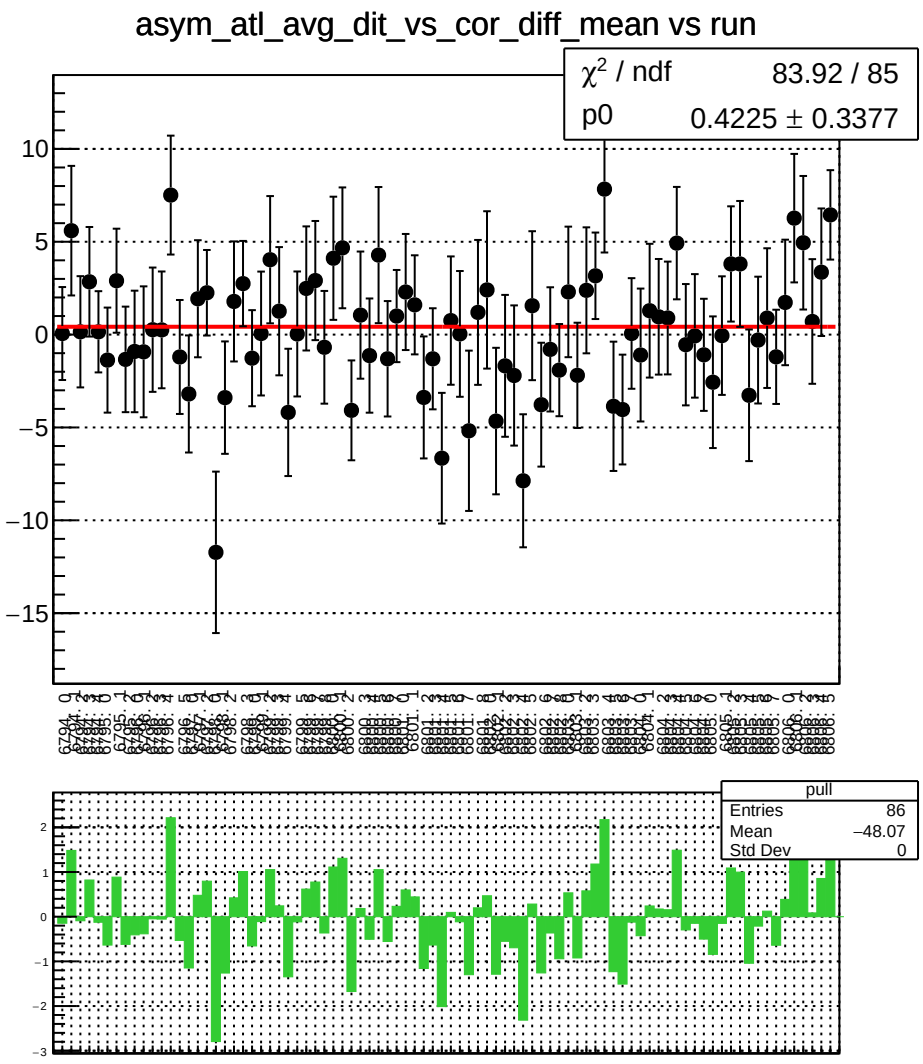

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 79.59 / 85
p0 3958 ± 4781
pull
Entries 86
Mean −120.3
Std Dev 0

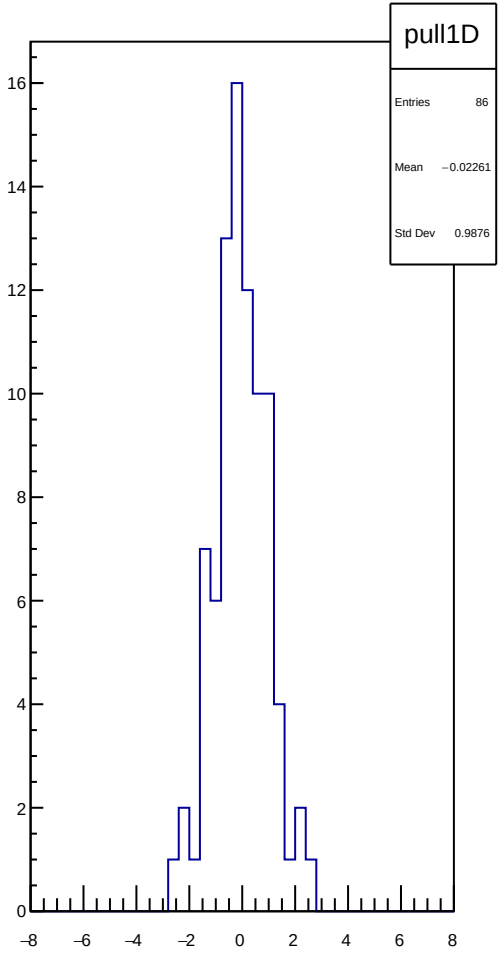

pull1D
Entries 86
Mean 0.02493
Std Dev 0.9617

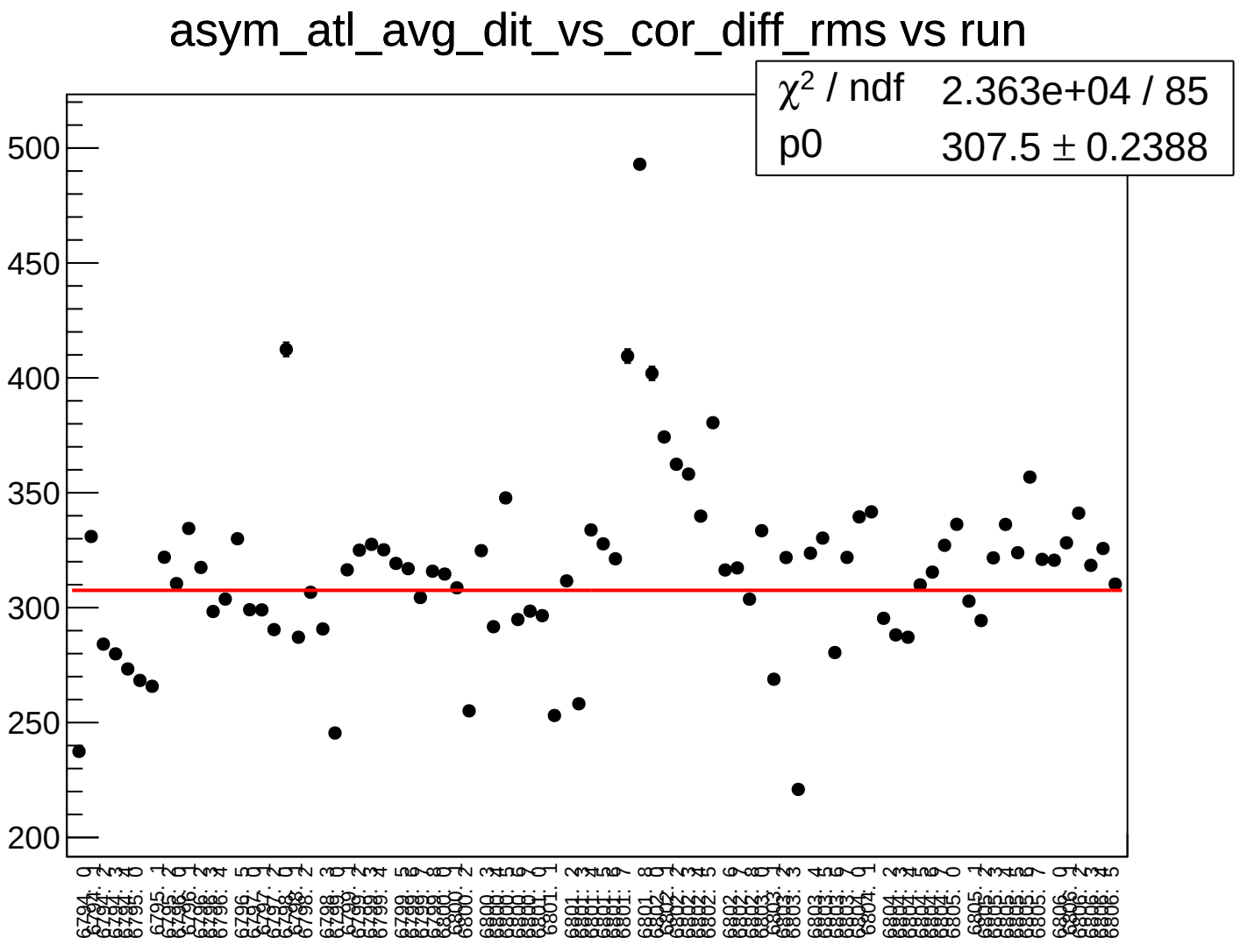

asym_atl_avg_rms vs run
χ² / ndf 3127 / 85
p0 4381 ± 3.381
5000
4800
4600
4400
4200
4000

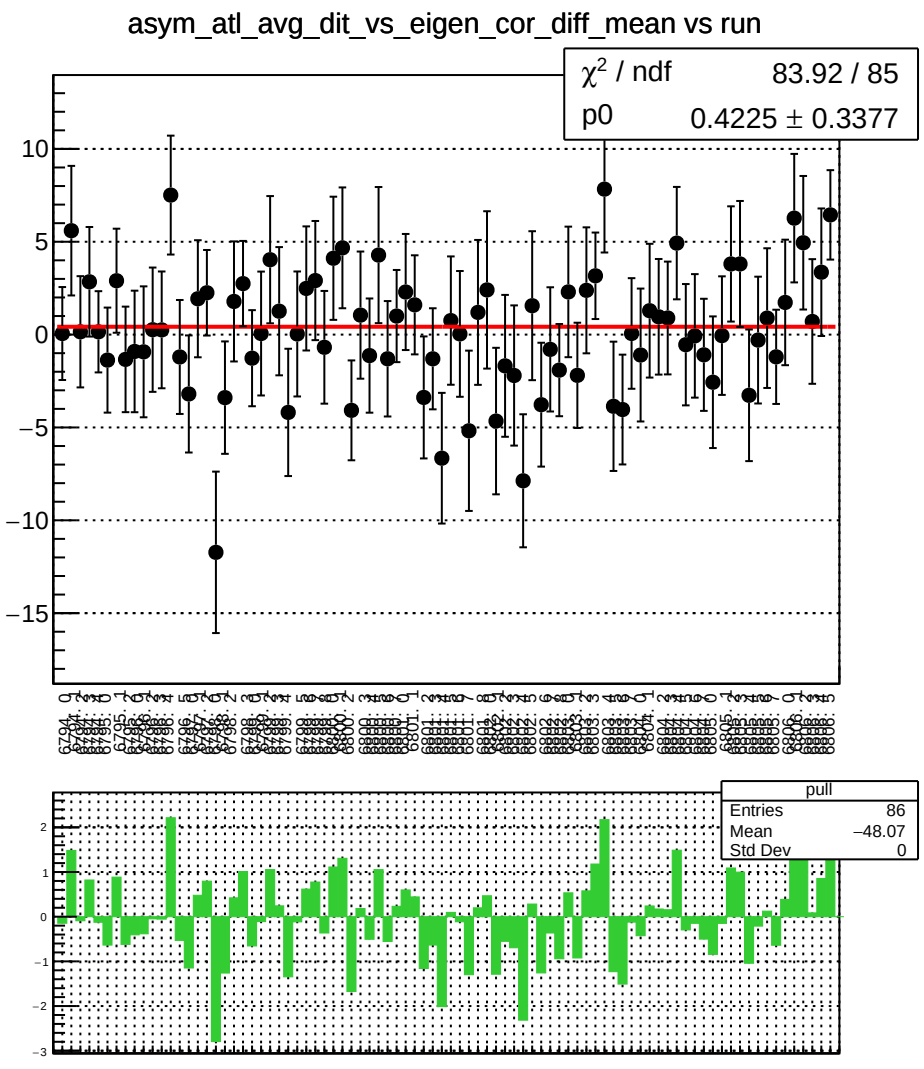

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.02 / 85
p0 −1.55e−13 ± 1.187e−13
pull
Entries 86
Mean 34.7
Std Dev 0
pull1D
Entries 86
Mean 0.04838
Std Dev 0.9075

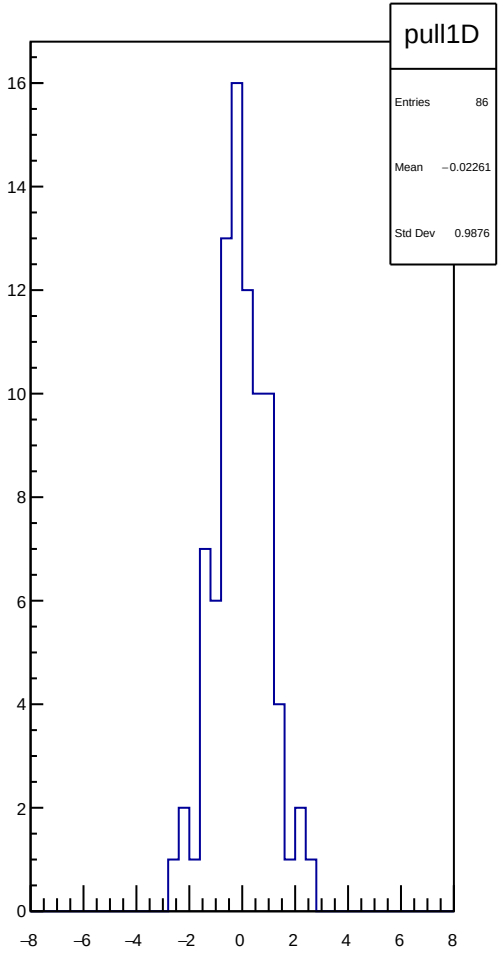

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.064e+06 / 85
p0 6.598e−11 ± 8.392e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

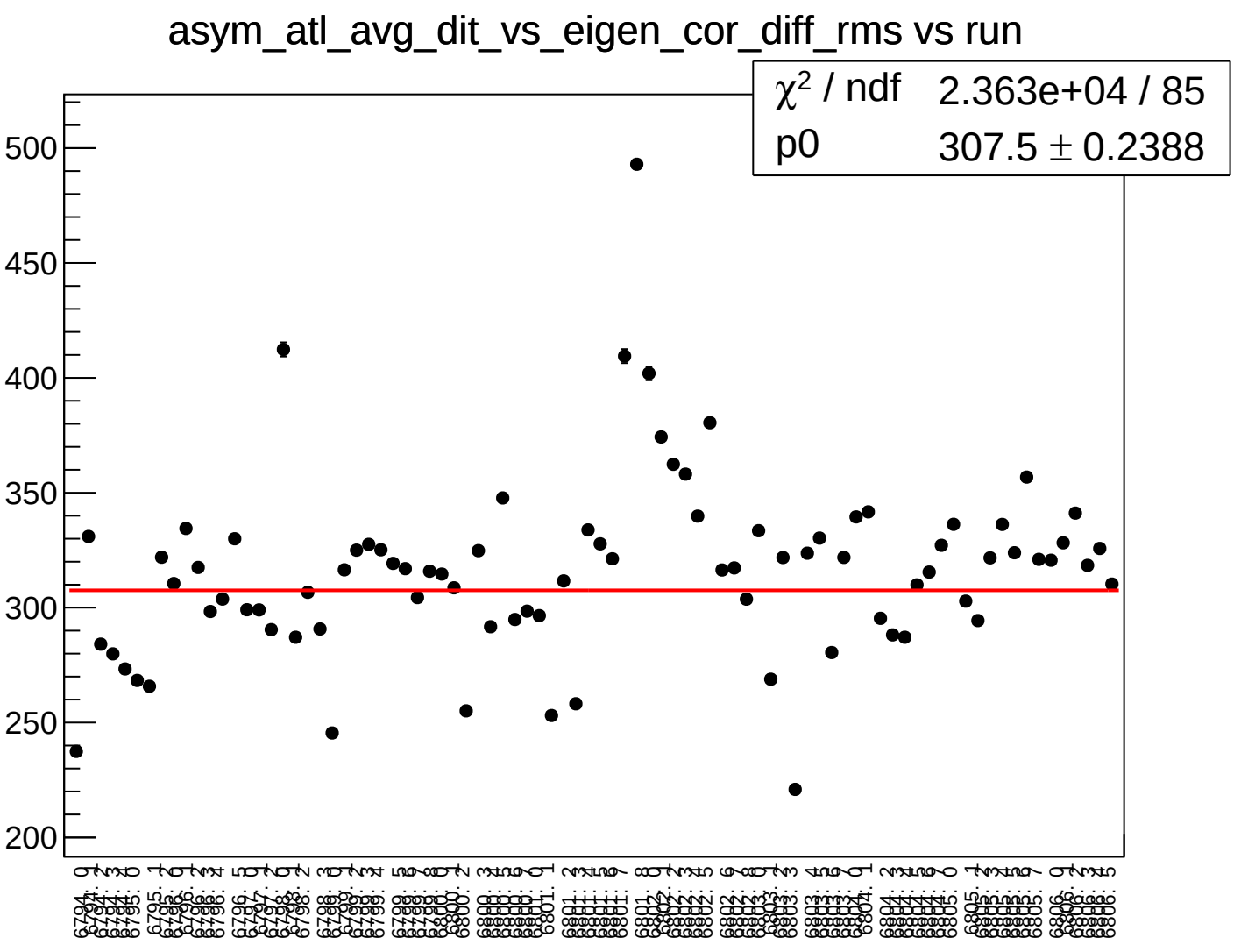

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 85
p0 0.4225 ± 0.3377
pull
Entries 86
Mean −48.07
Std Dev 0

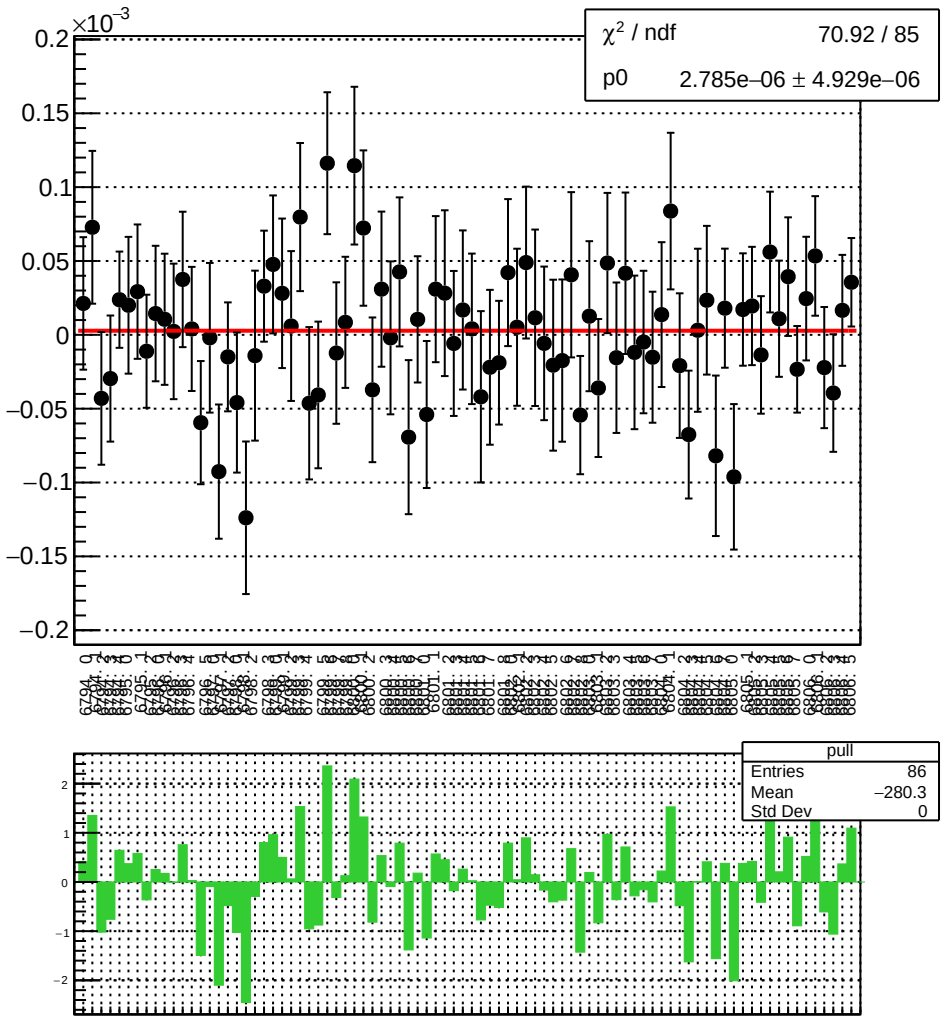

pull1D
Entries 86
Mean −0.02261
Std Dev 0.9876

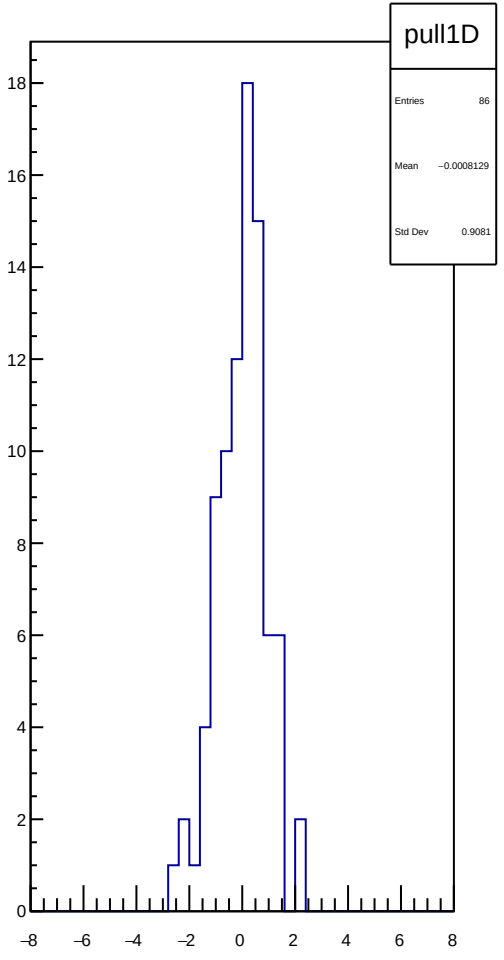

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 85
p0 307.5 ± 0.2388
500
450
400
350
300
250
200

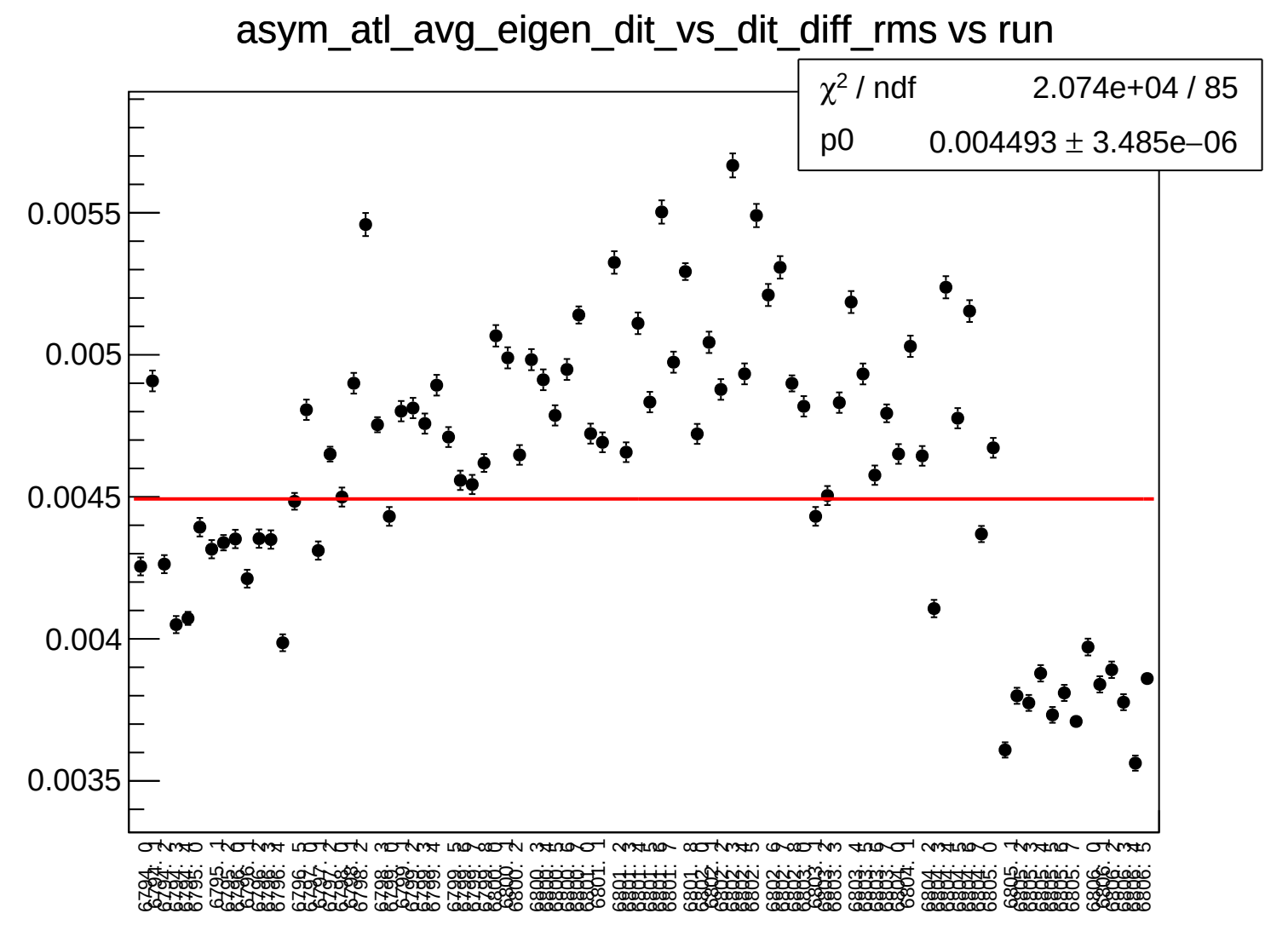

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 85
p0 0.4225 ± 0.3377
pull
Entries 86
Mean −48.07
Std Dev 0

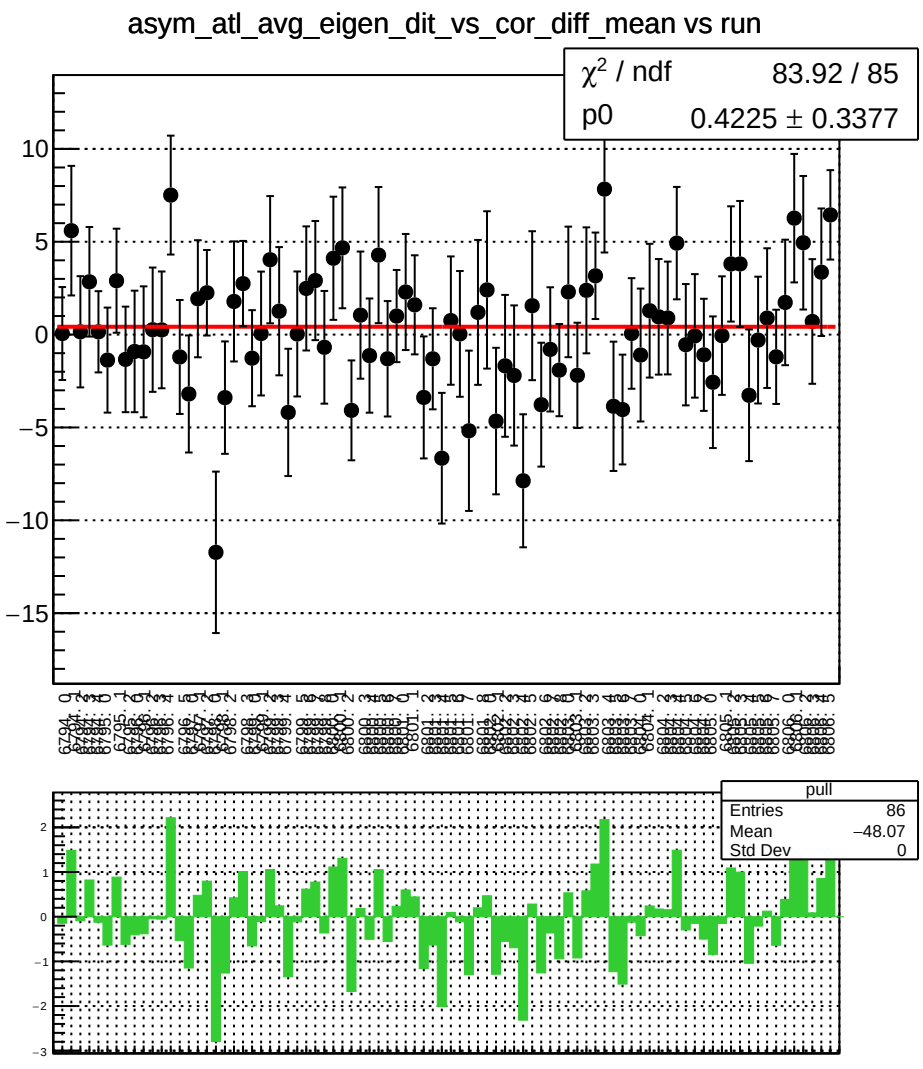

pull1D
Entries 86
Mean −0.02261
Std Dev 0.9876

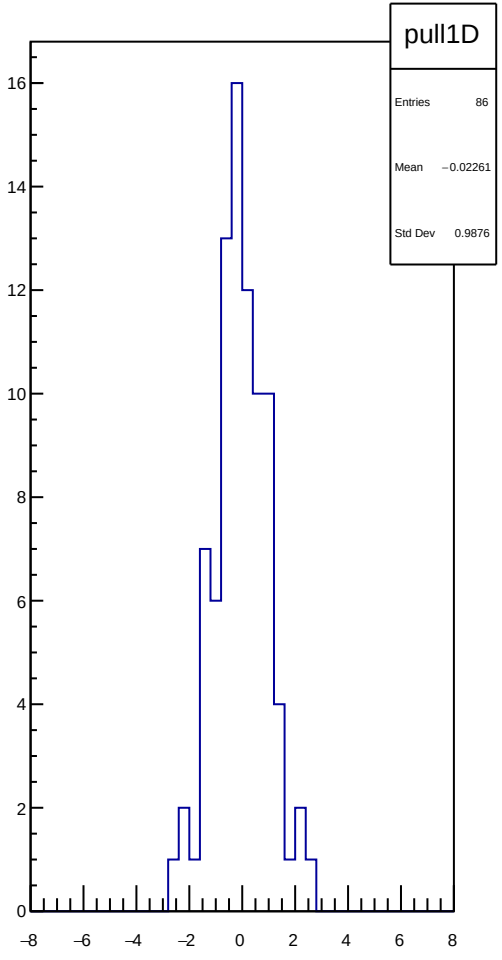

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 85
p0 307.5 ± 0.2388
500
450
400
350
300
250
200

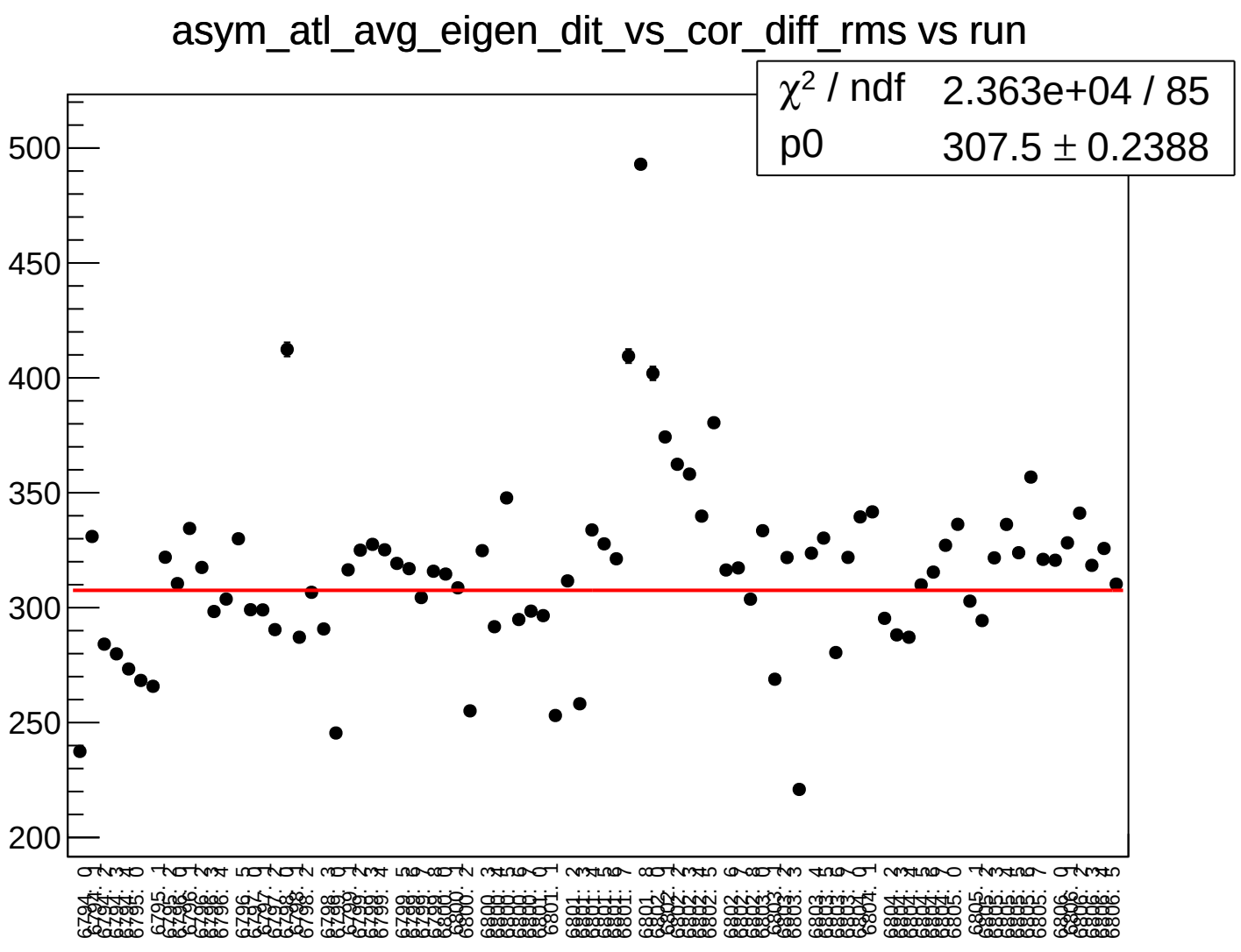

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.92 / 85
p0 2.785e−06 ± 4.929e−06
pull
Entries 86
Mean −280.3
Std Dev 0

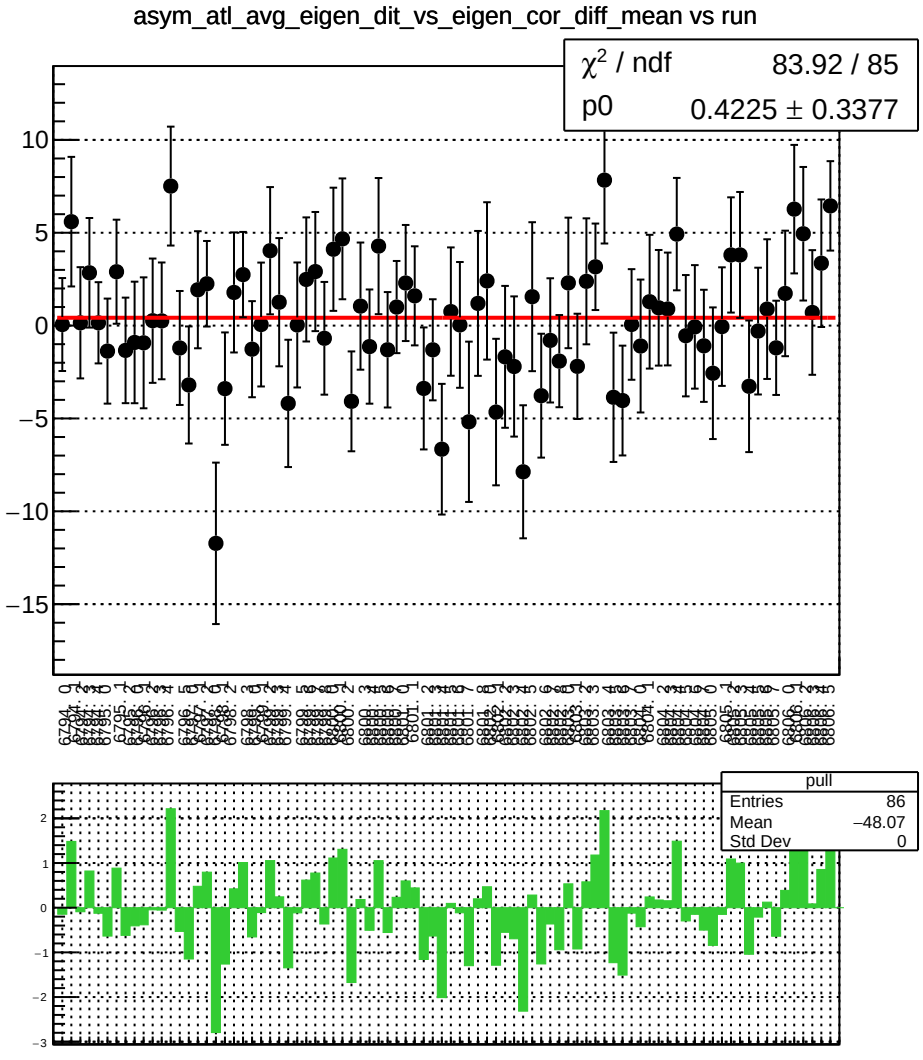

pull1D
Entries 86
Mean −0.0008129
Std Dev 0.9081

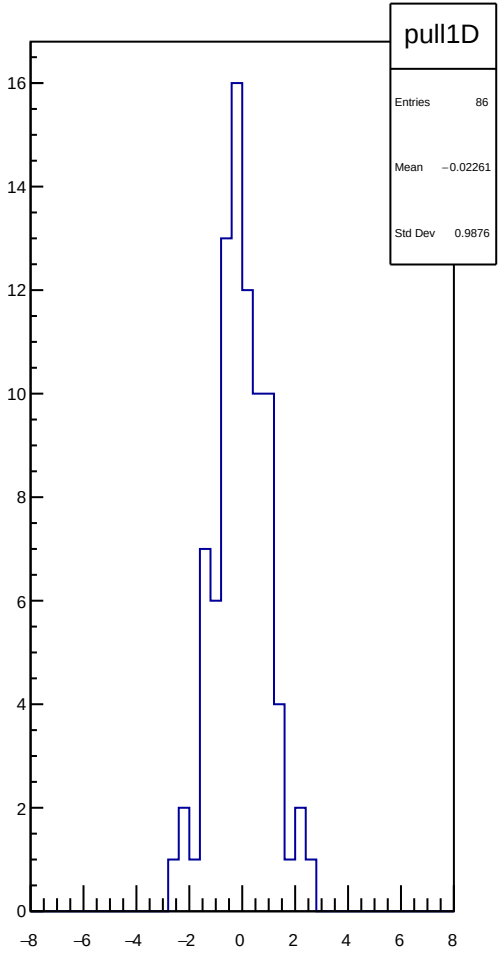

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.074e+04 / 85
p0 0.004493 ± 3.485e−06
0.0055
0.005
0.0045
0.004
0.0035

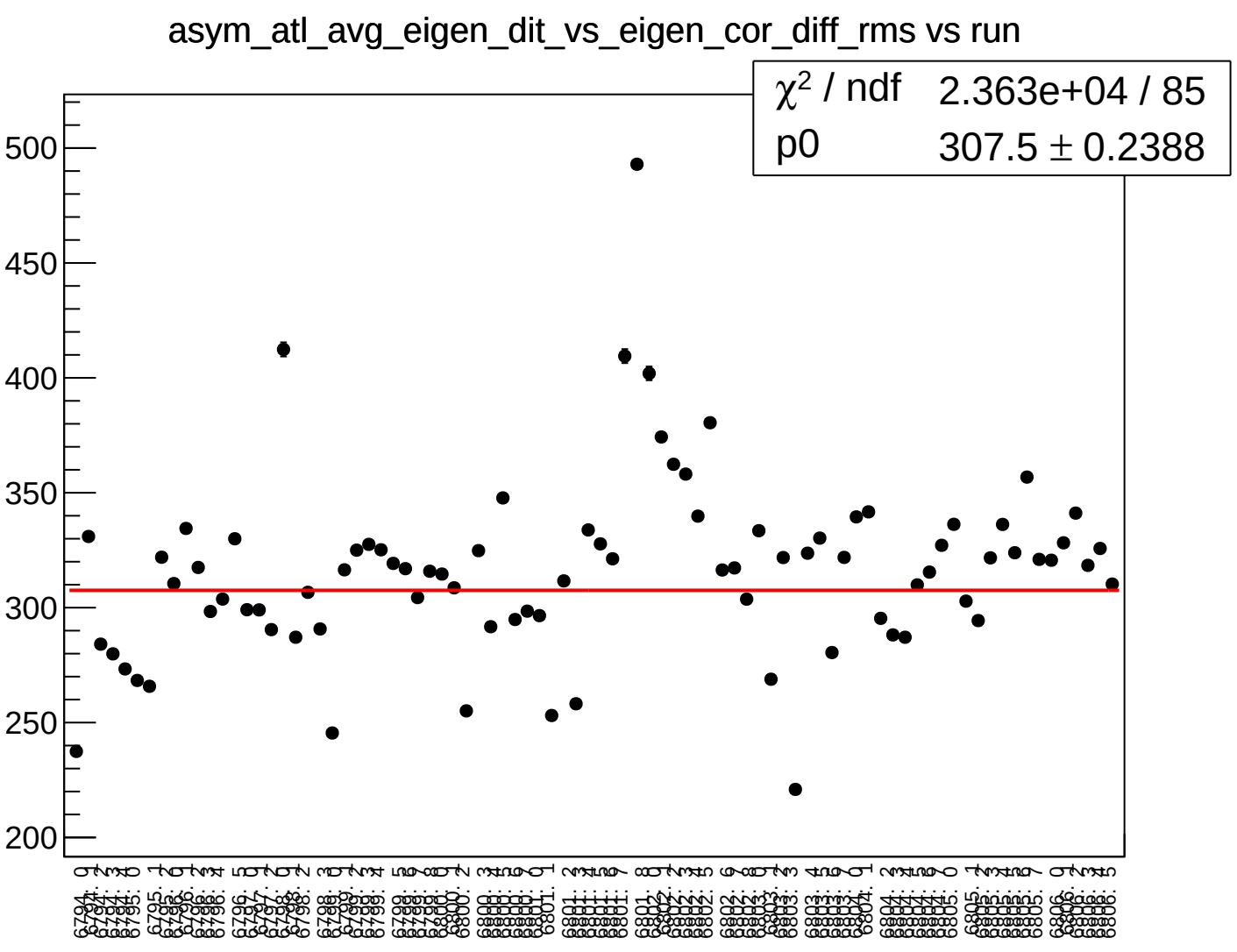

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 85
p0 0.4225 ± 0.3377
pull
Entries 86
Mean −48.07
Std Dev 0

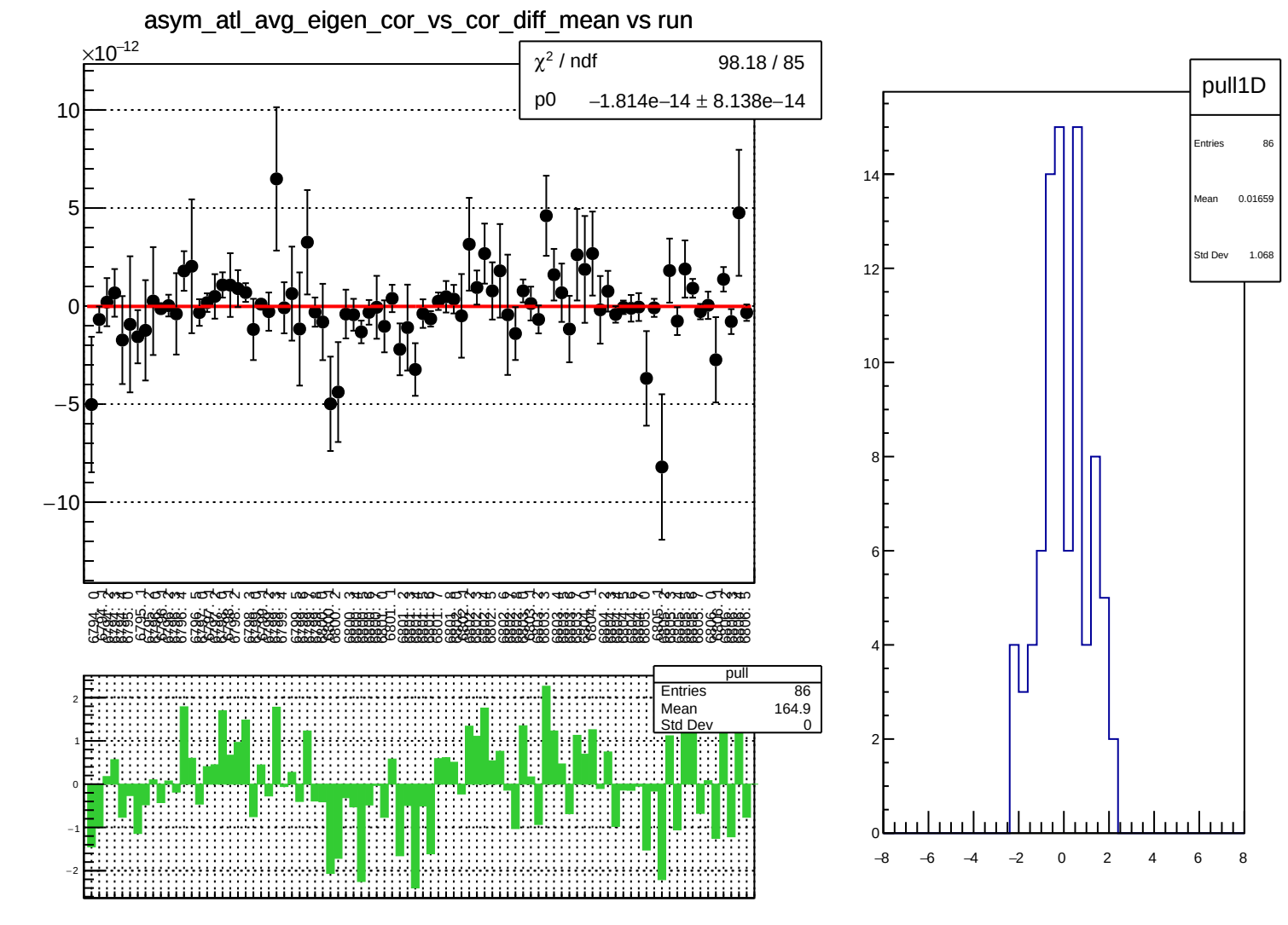

pull1D
Entries 86
Mean −0.02261
Std Dev 0.9876

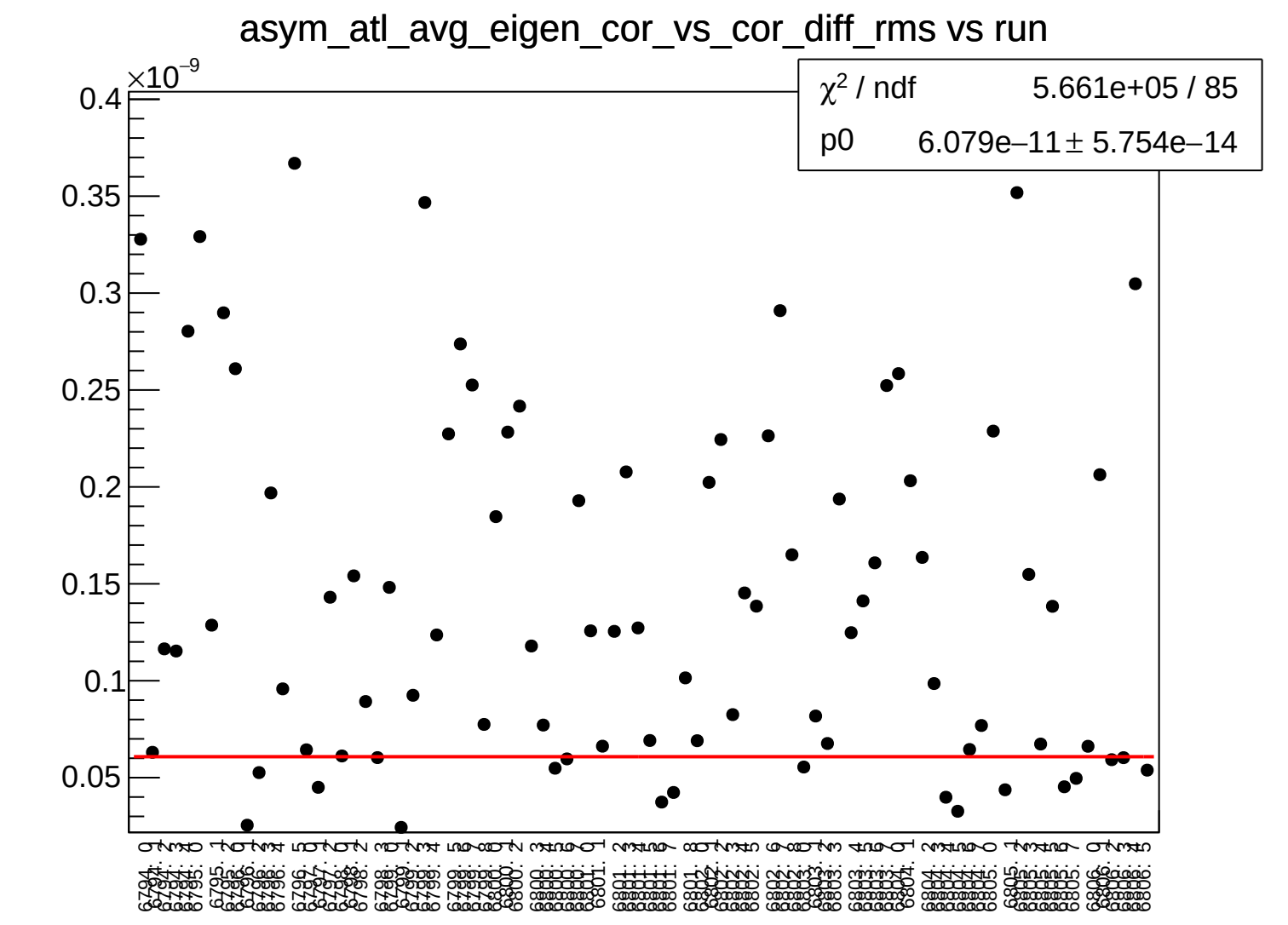

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 85
p0 307.5 ± 0.2388
500
450
400
350
300
250
200

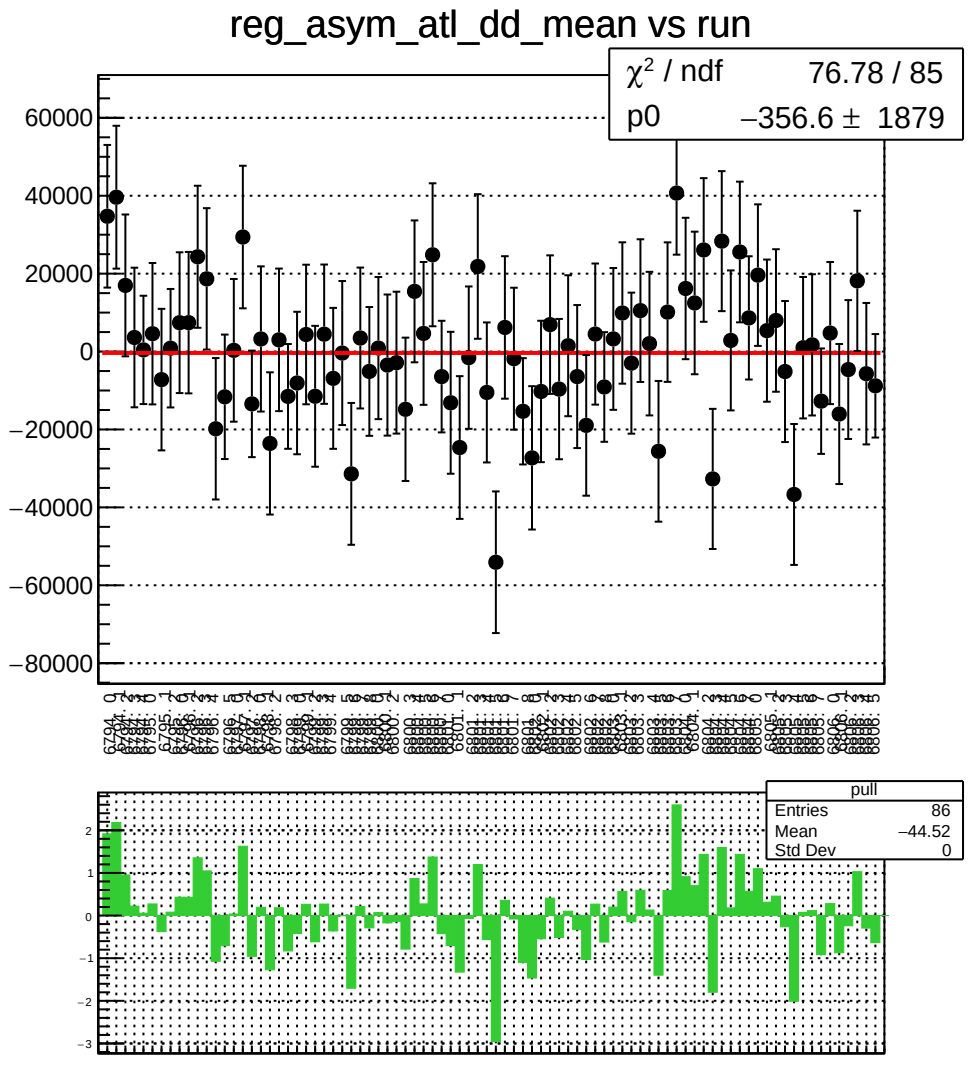

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.92 / 85
p0 0.4225 ± 0.3377
pull
Entries 86
Mean −48.07
Std Dev 0

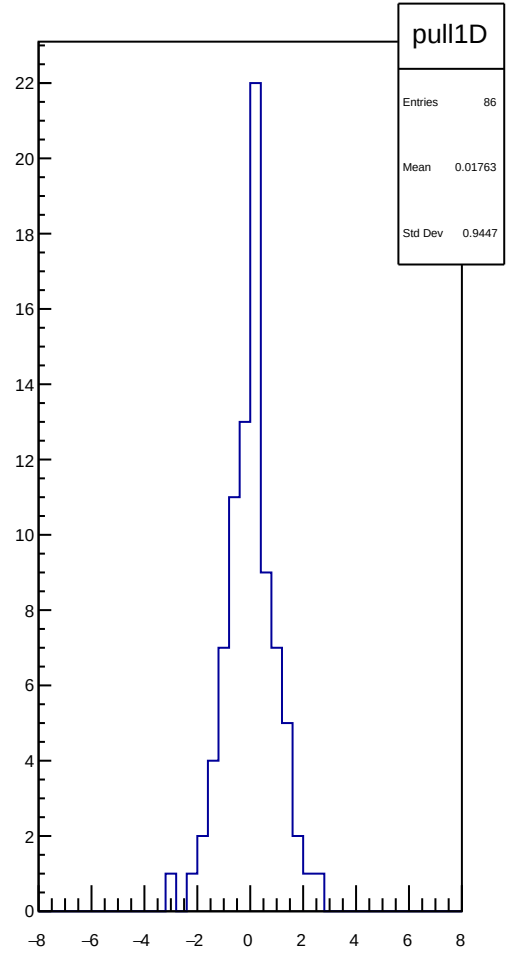

pull1D
Entries 86
Mean −0.02261
Std Dev 0.9876

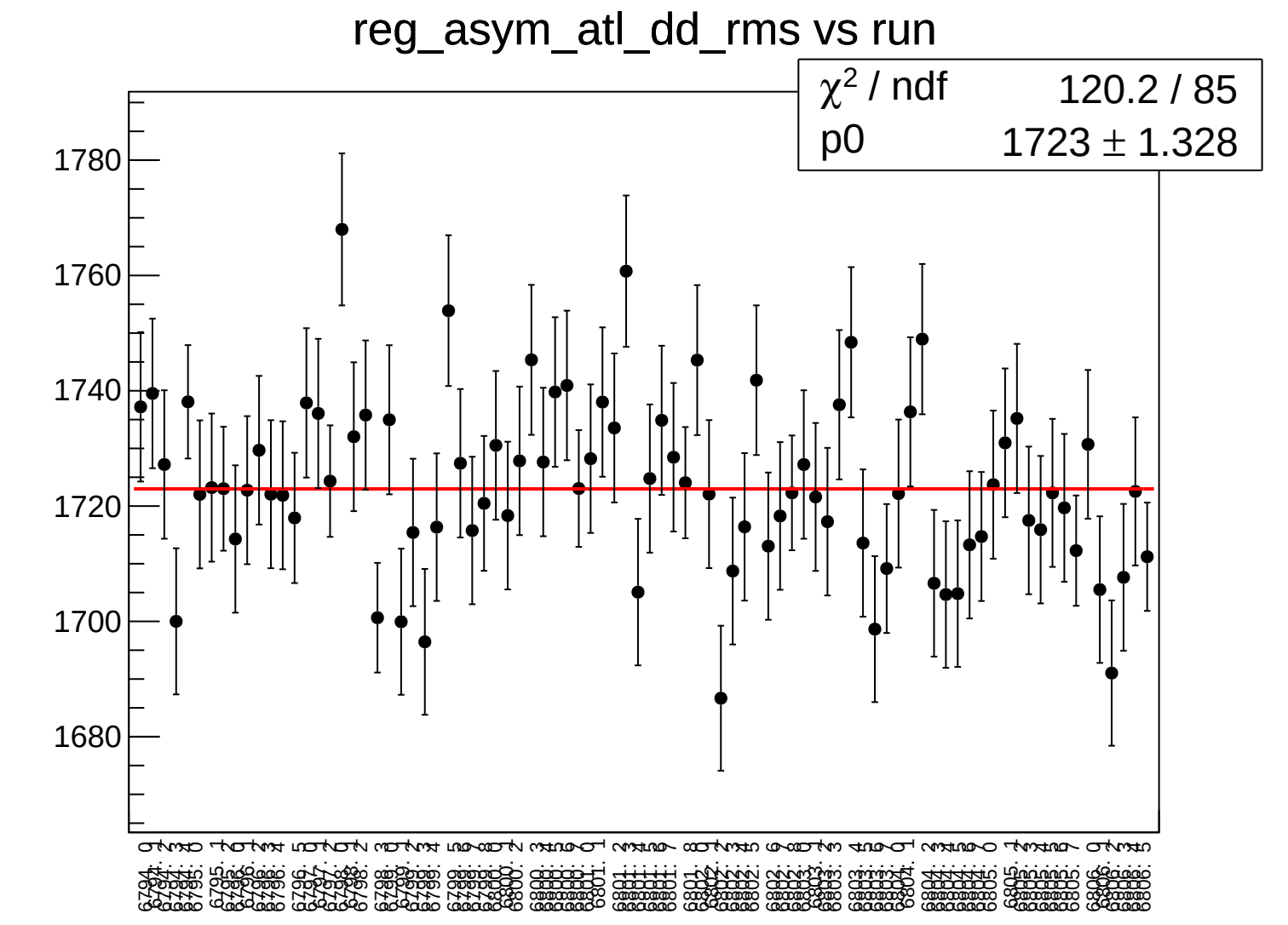

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.363e+04 / 85
p0 307.5 ± 0.2388
500
450
400
350
300
250
200

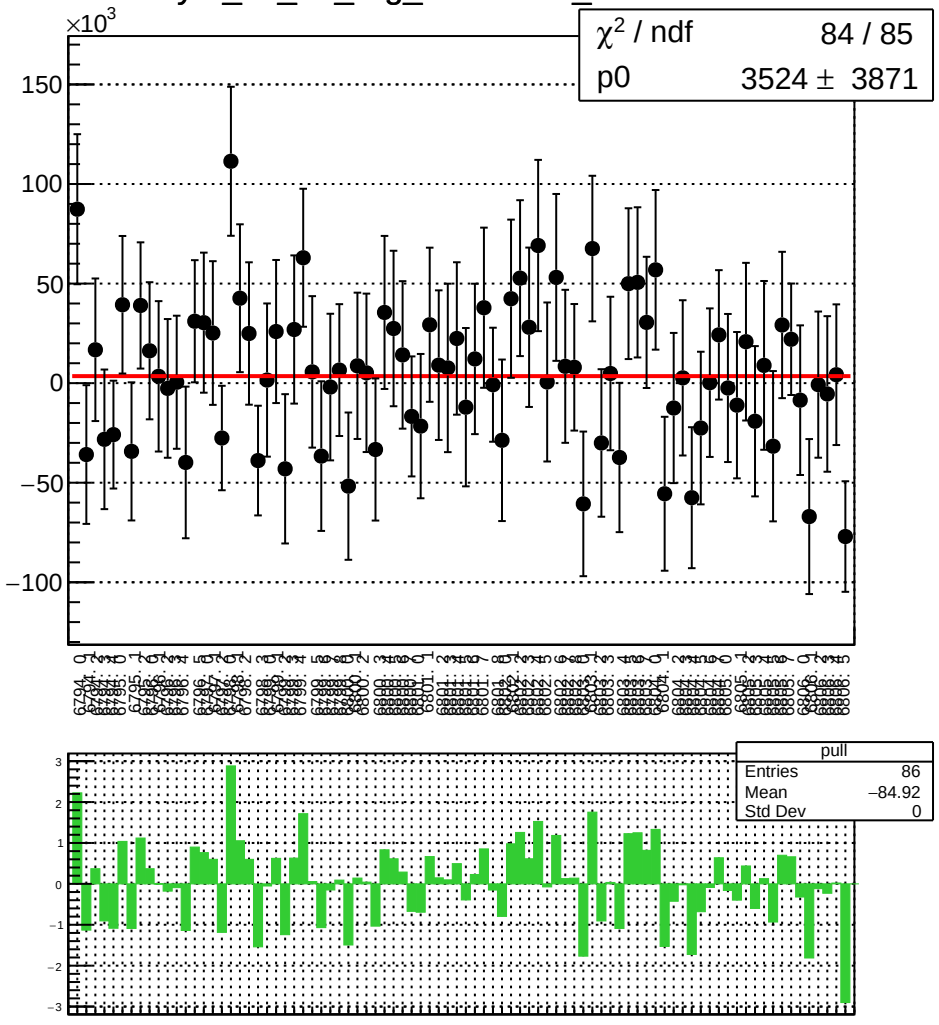

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.18 / 85
p0 −1.814e−14 ± 8.138e−14
10
5
0
−5
−10
pull
Entries 86
Mean 164.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01659
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

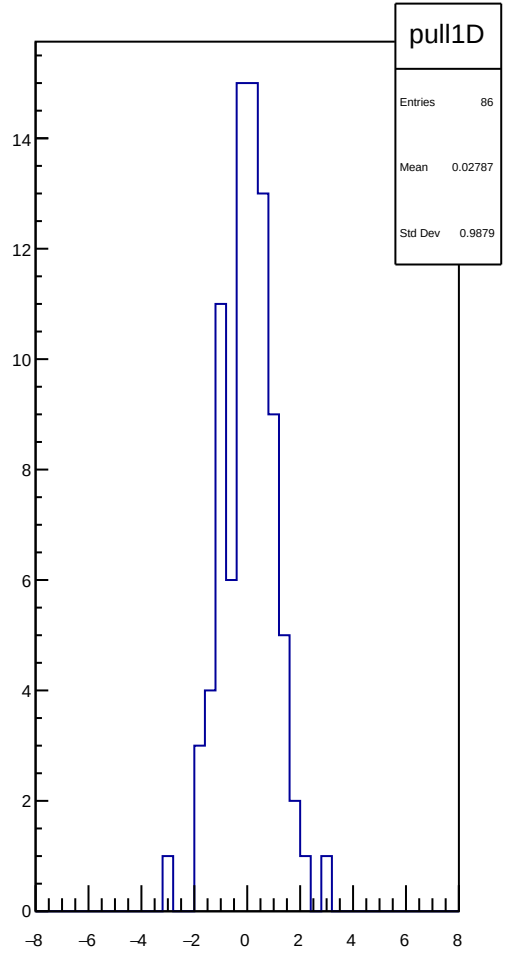

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.661e+05 / 85
p0 6.079e−11 ± 5.754e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

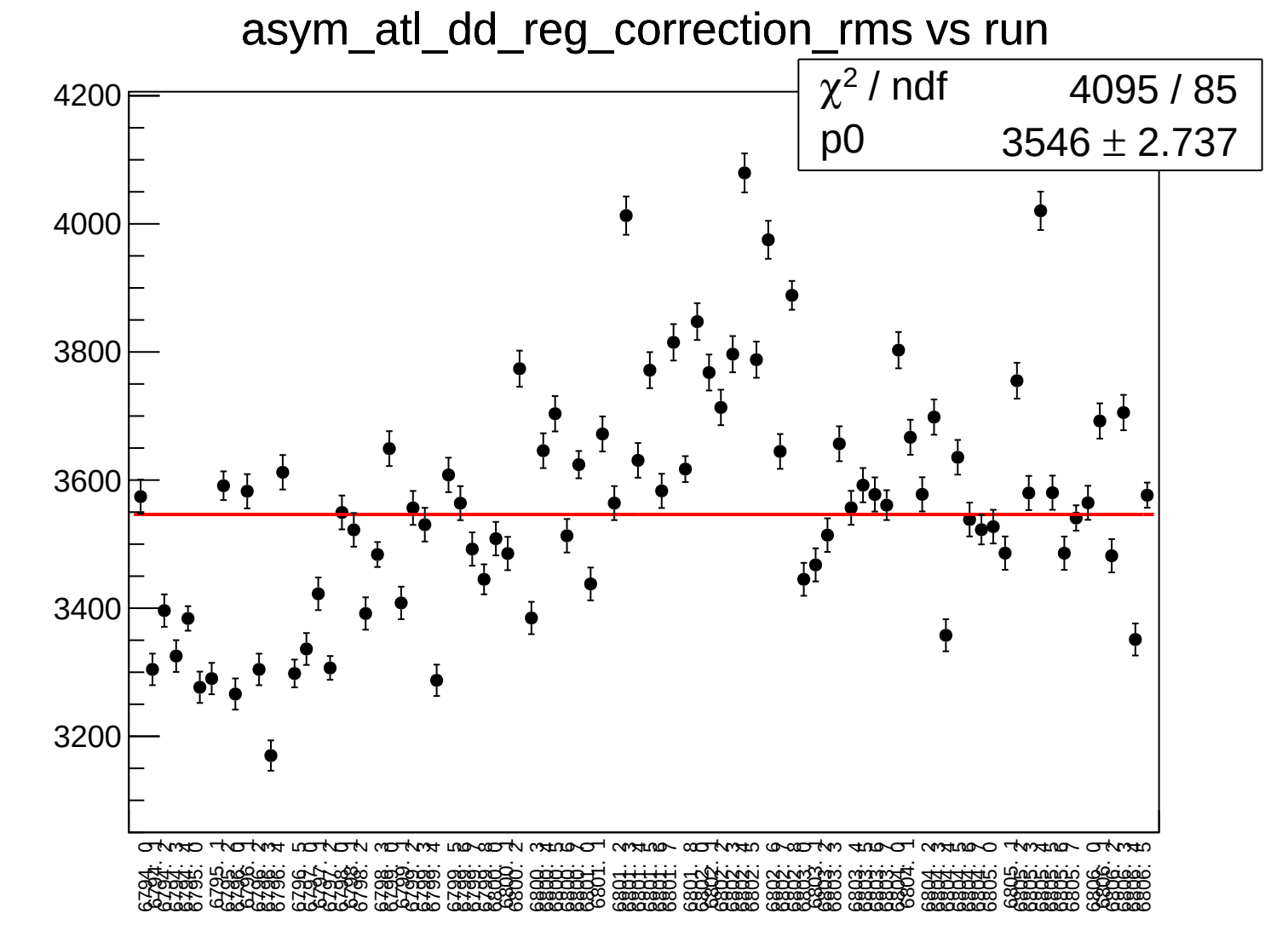

reg_asym_atl_dd_mean vs run
χ² / ndf 76.78 / 85
p0 −356.6 ± 1879
pull
Entries 86
Mean −44.52
Std Dev 0

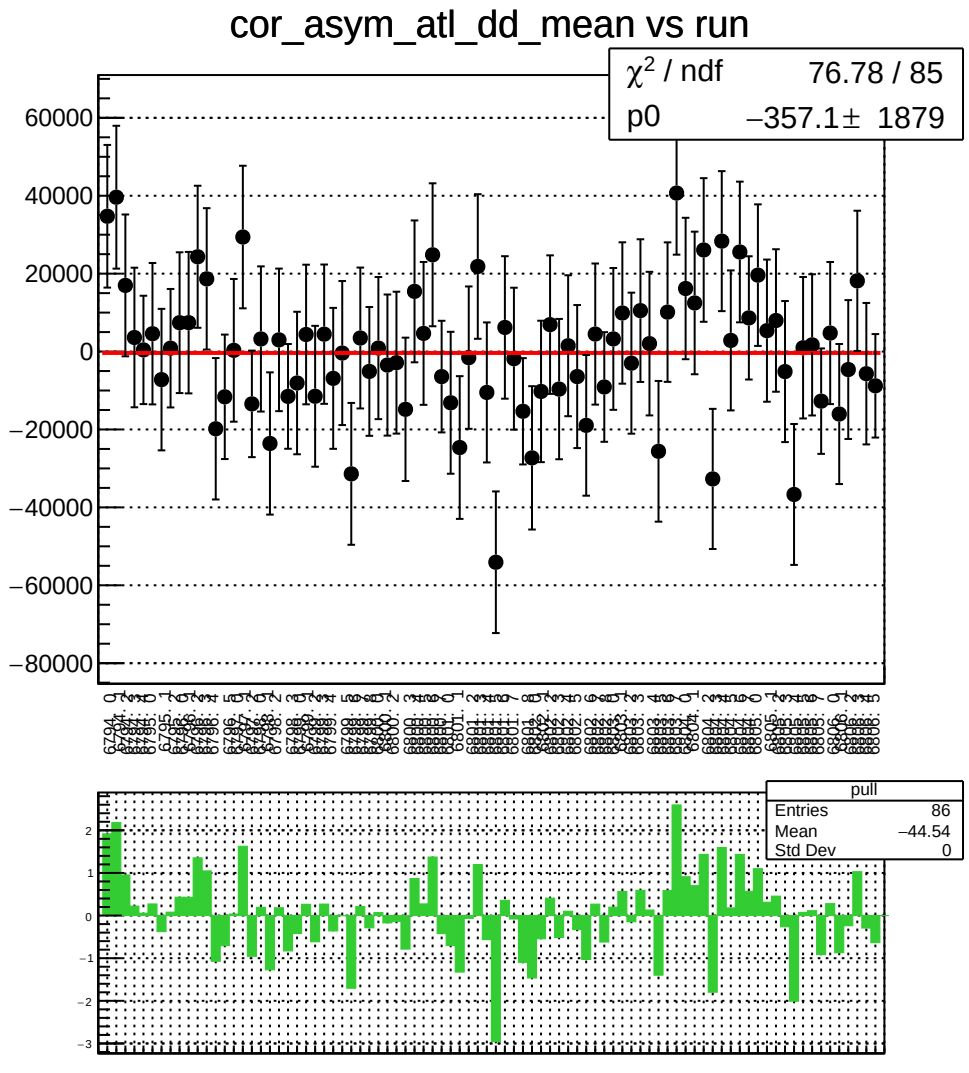

pull1D
Entries 86
Mean 0.01763
Std Dev 0.9447

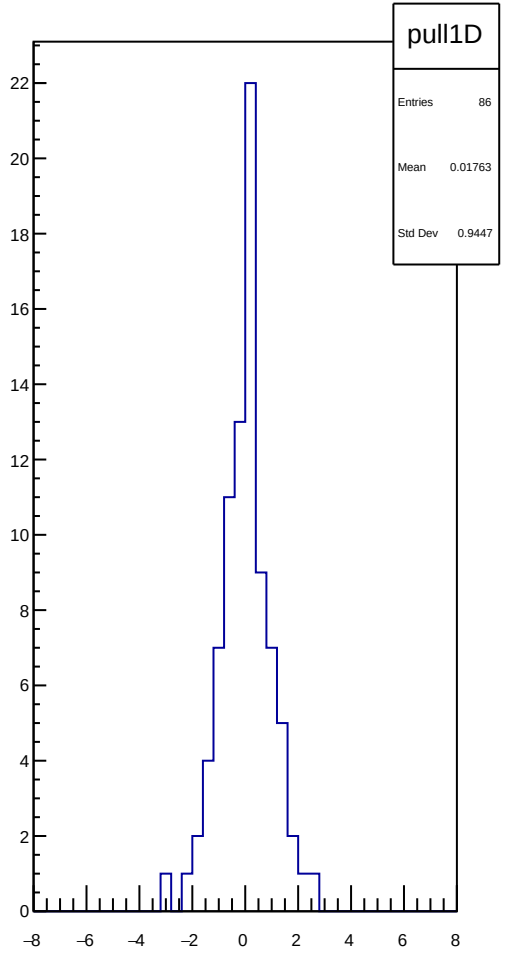

reg_asym_atl_dd_rms vs run
χ^2 / ndf 120.2 / 85
p0 1723 ± 1.328
1780
1760
1740
1720
1700
1680

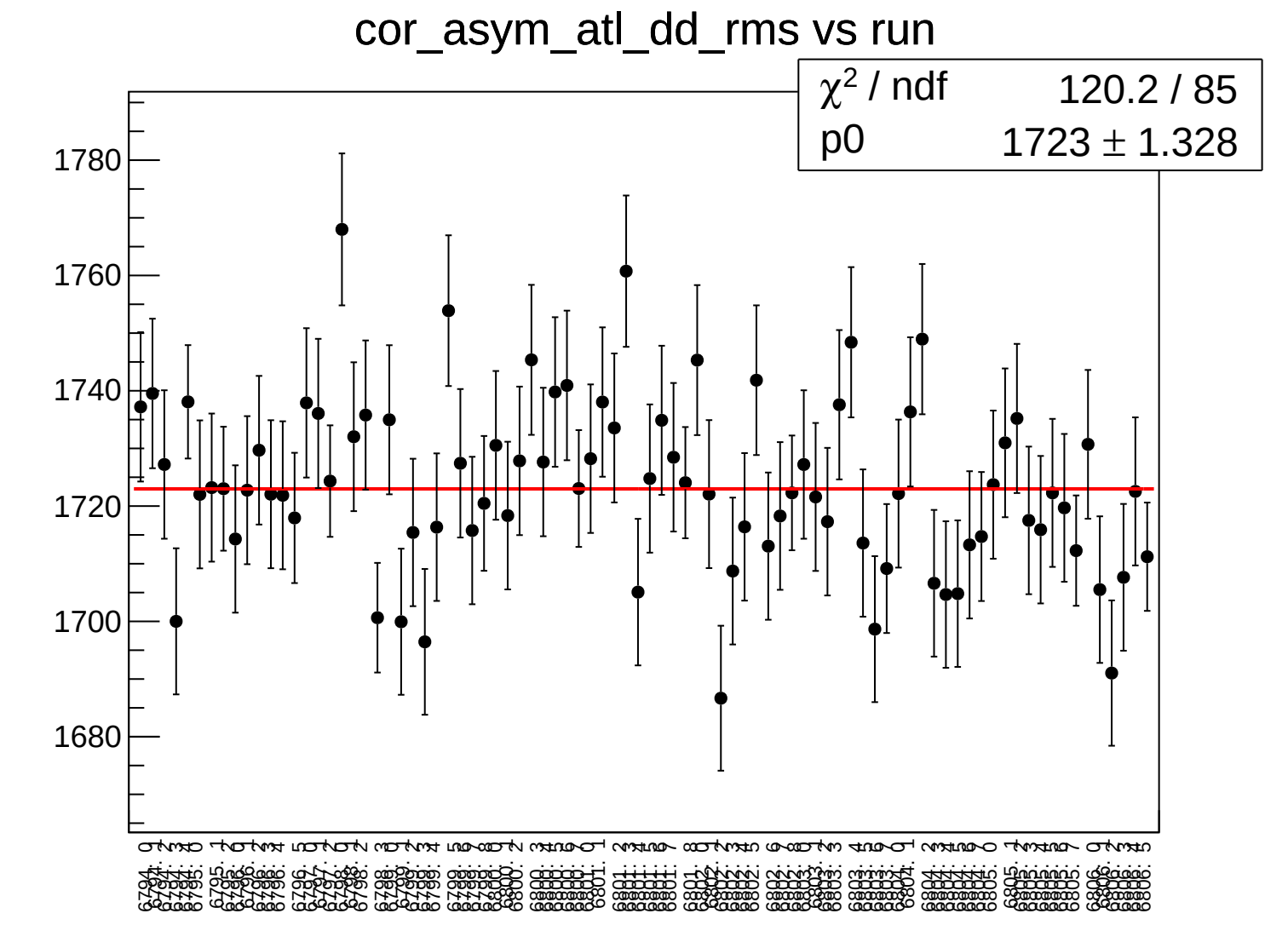

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 84 / 85
p0 3524 ± 3871
150
100
50
0
−50
−100
pull
Entries 86
Mean −84.92
Std Dev 0
3
2
1
0
−1
−2
−3

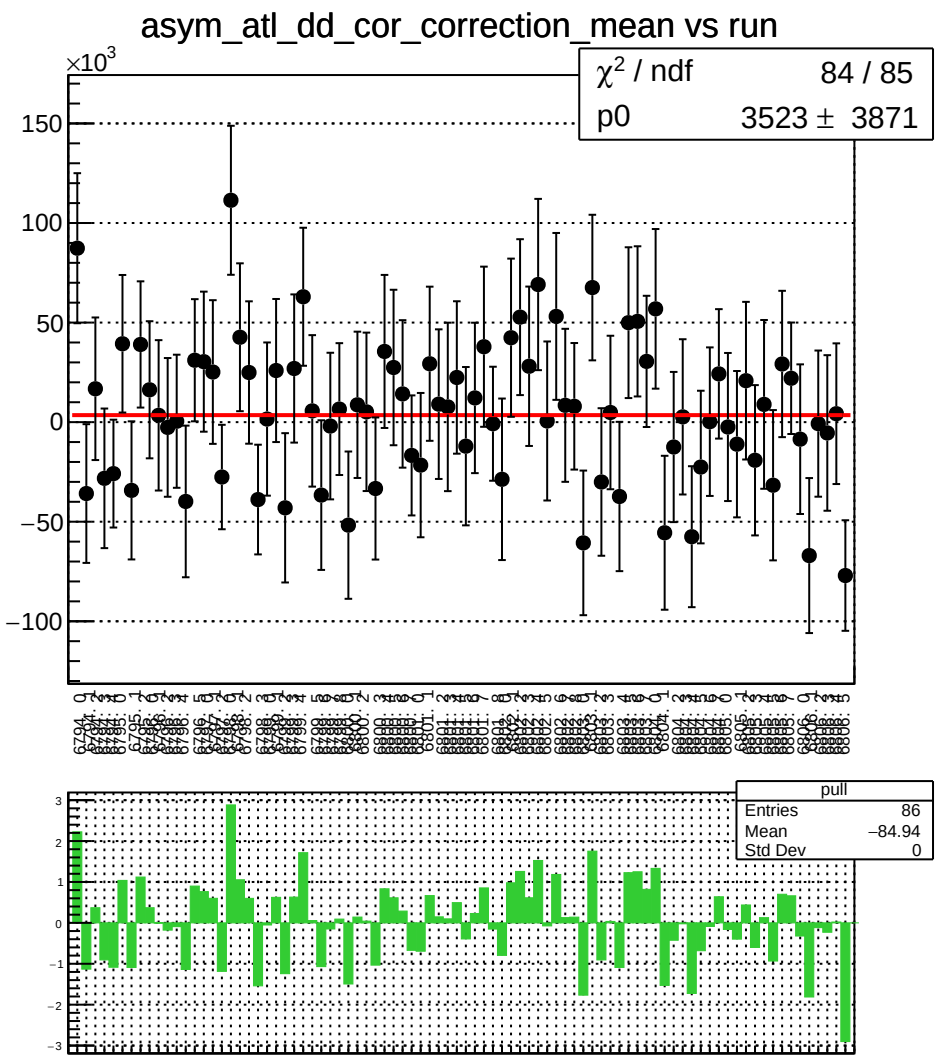

pull1D
Entries 86
Mean 0.02787
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

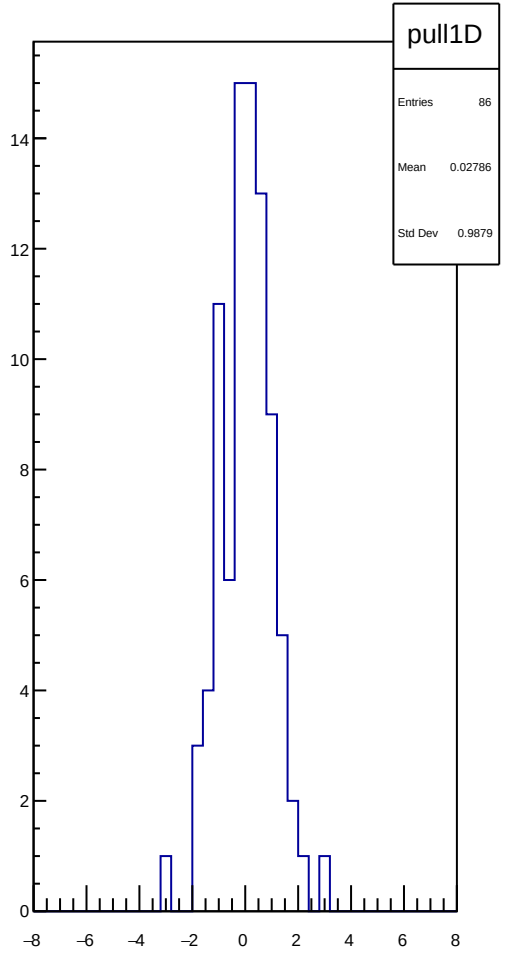

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 4095 / 85
p0 3546 ± 2.737
4200
4000
3800
3600
3400
3200

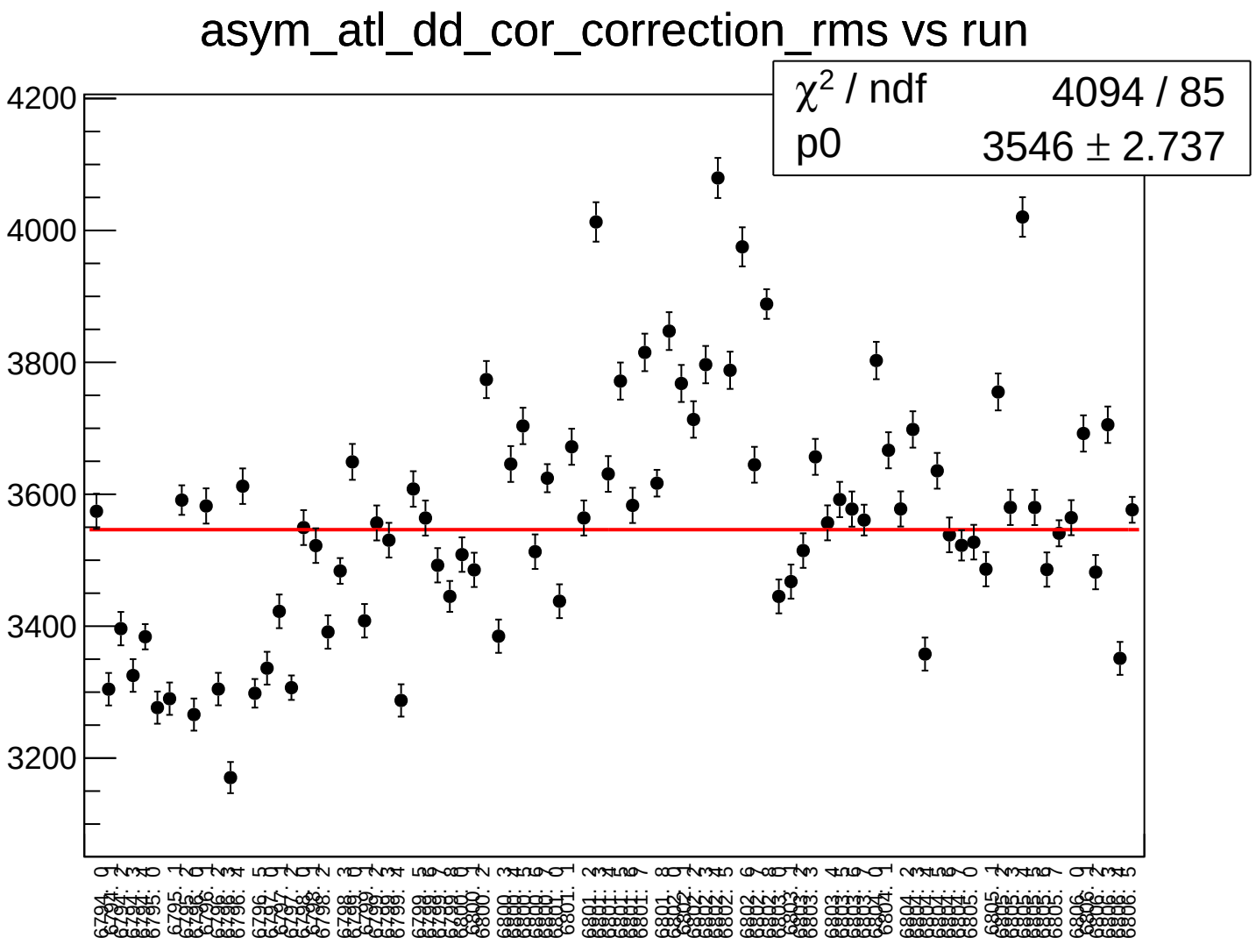

cor_asym_atl_dd_mean vs run
χ² / ndf 76.78 / 85
p0 −357.1± 1879
pull
Entries 86
Mean −44.54
Std Dev 0

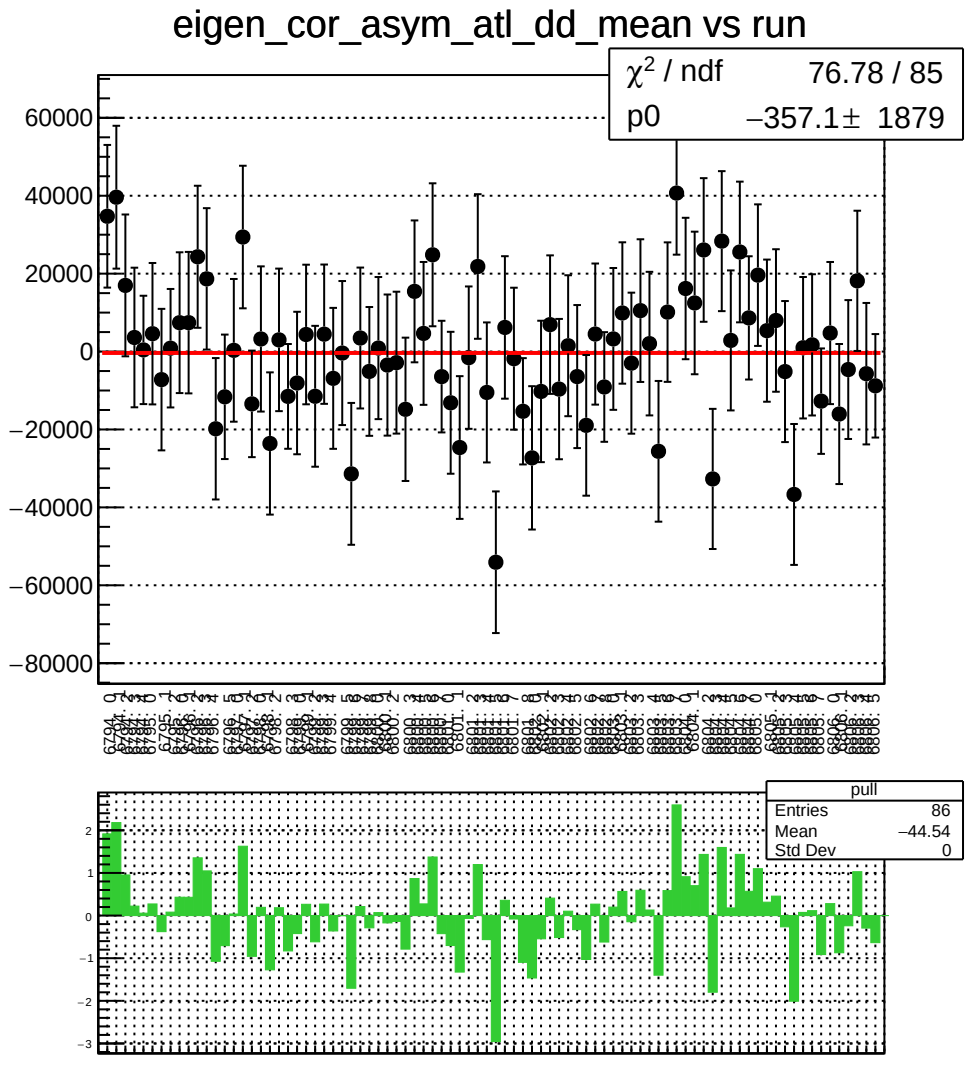

pull1D
Entries 86
Mean 0.01763
Std Dev 0.9447

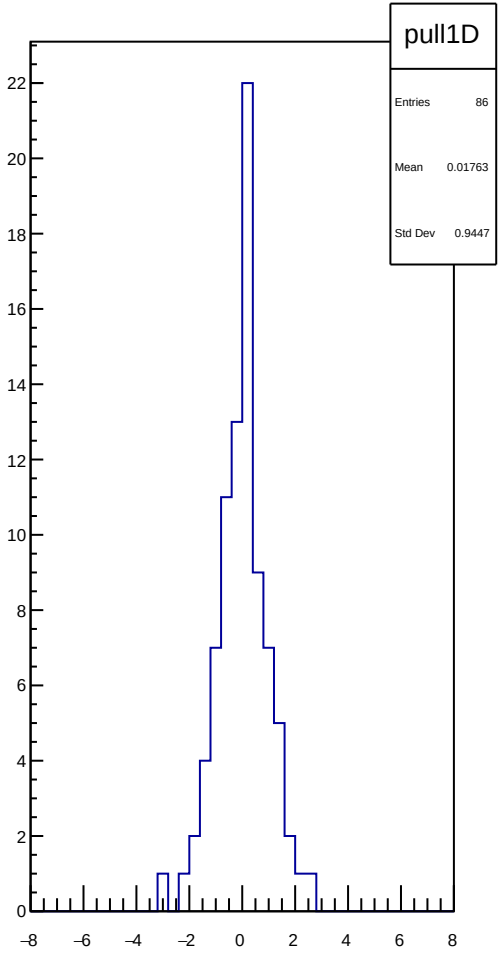

cor_asym_atl_dd_rms vs run
χ^2 / ndf 120.2 / 85
p0 1723 ± 1.328
1780
1760
1740
1720
1700
1680

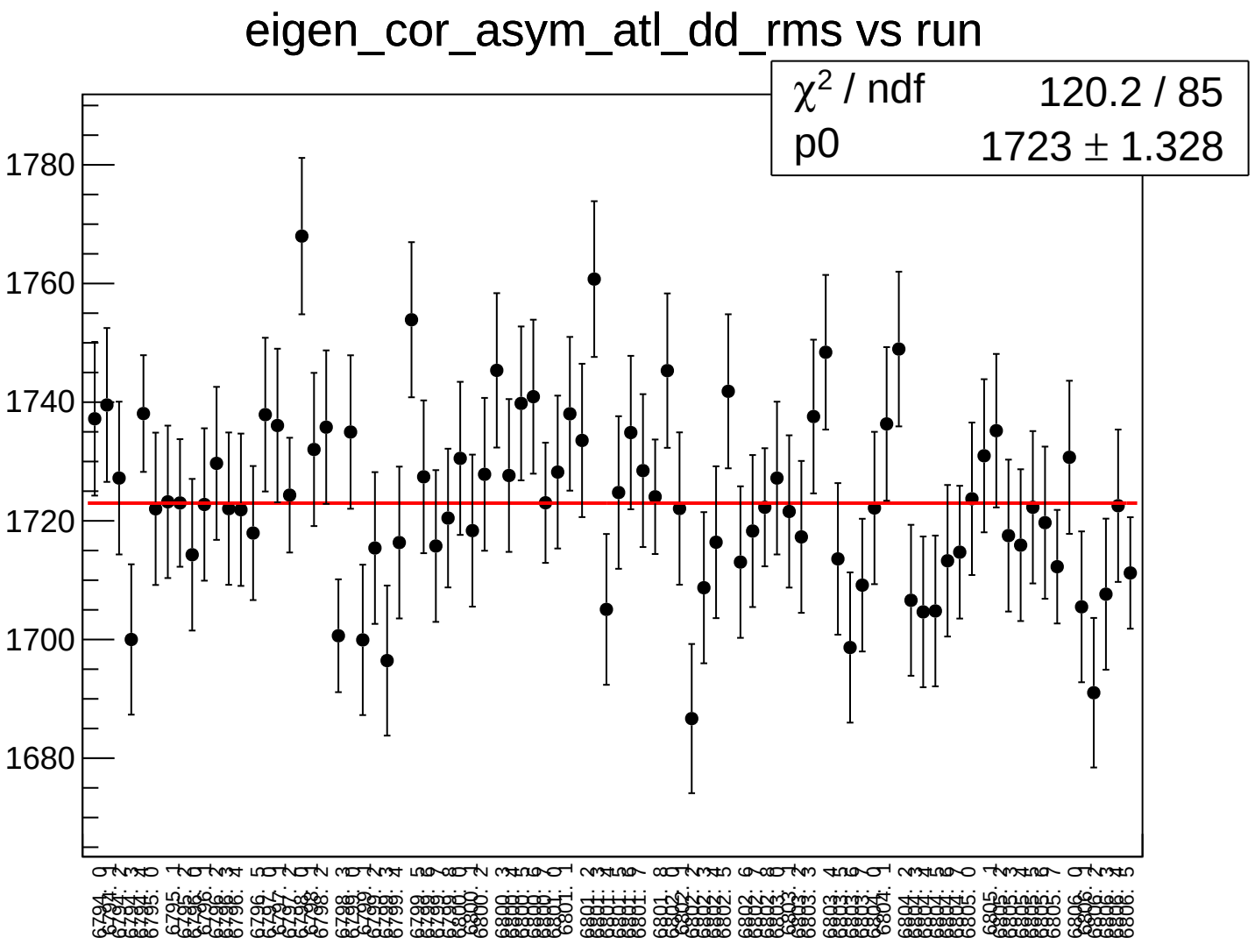

asym_atl_dd_cor_correction_mean vs run
χ² / ndf 84 / 85
p0 3523 ± 3871
×10³
150
100
50
0
−50
−100
pull
Entries 86
Mean −84.94
Std Dev 0
3
2
1
0
−1
−2
−3

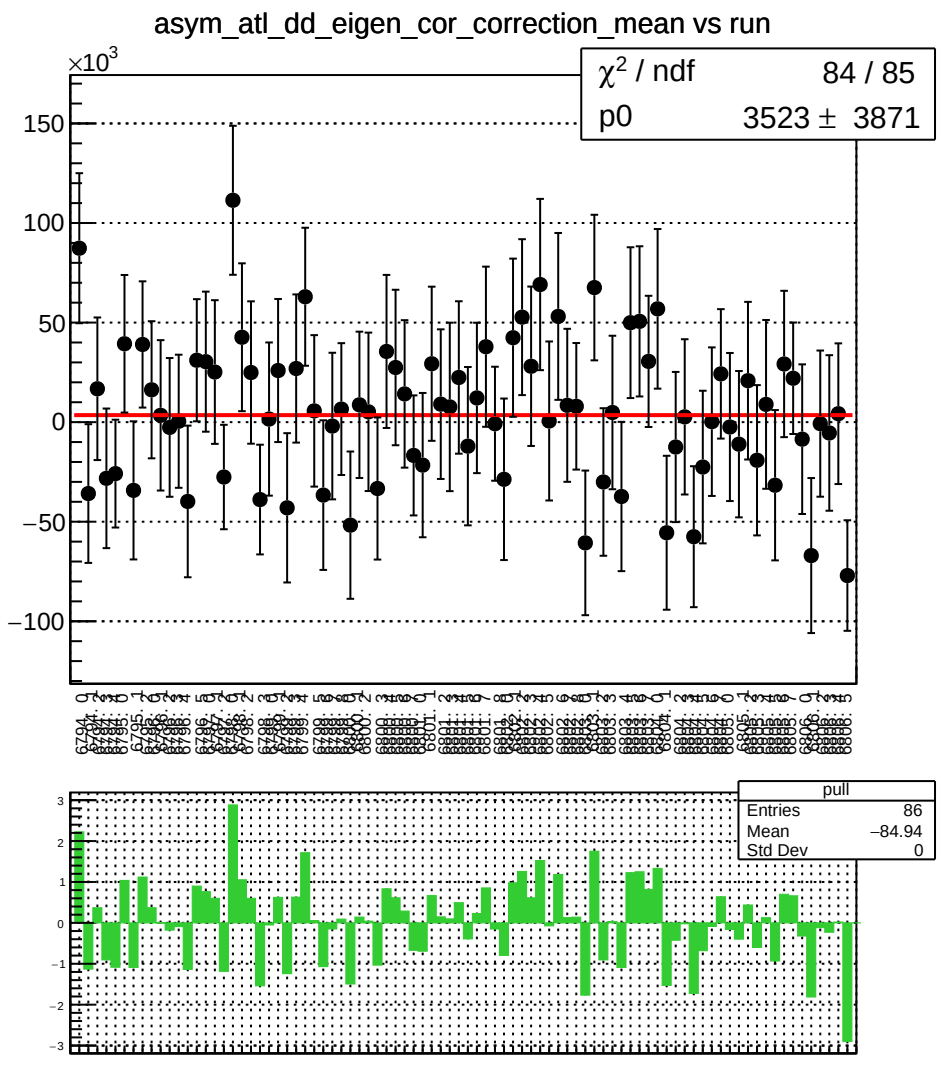

pull1D
Entries 86
Mean 0.02786
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

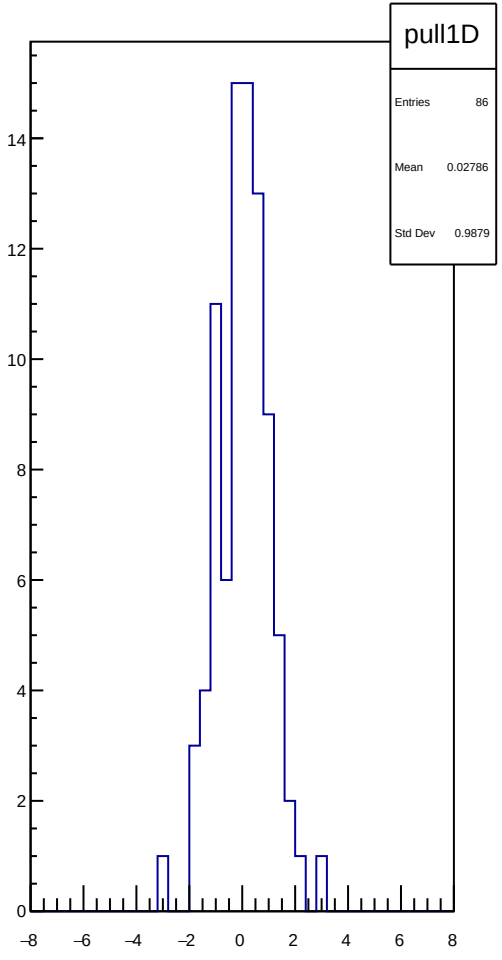

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4094 / 85
p0 3546 ± 2.737
4200
4000
3800
3600
3400
3200

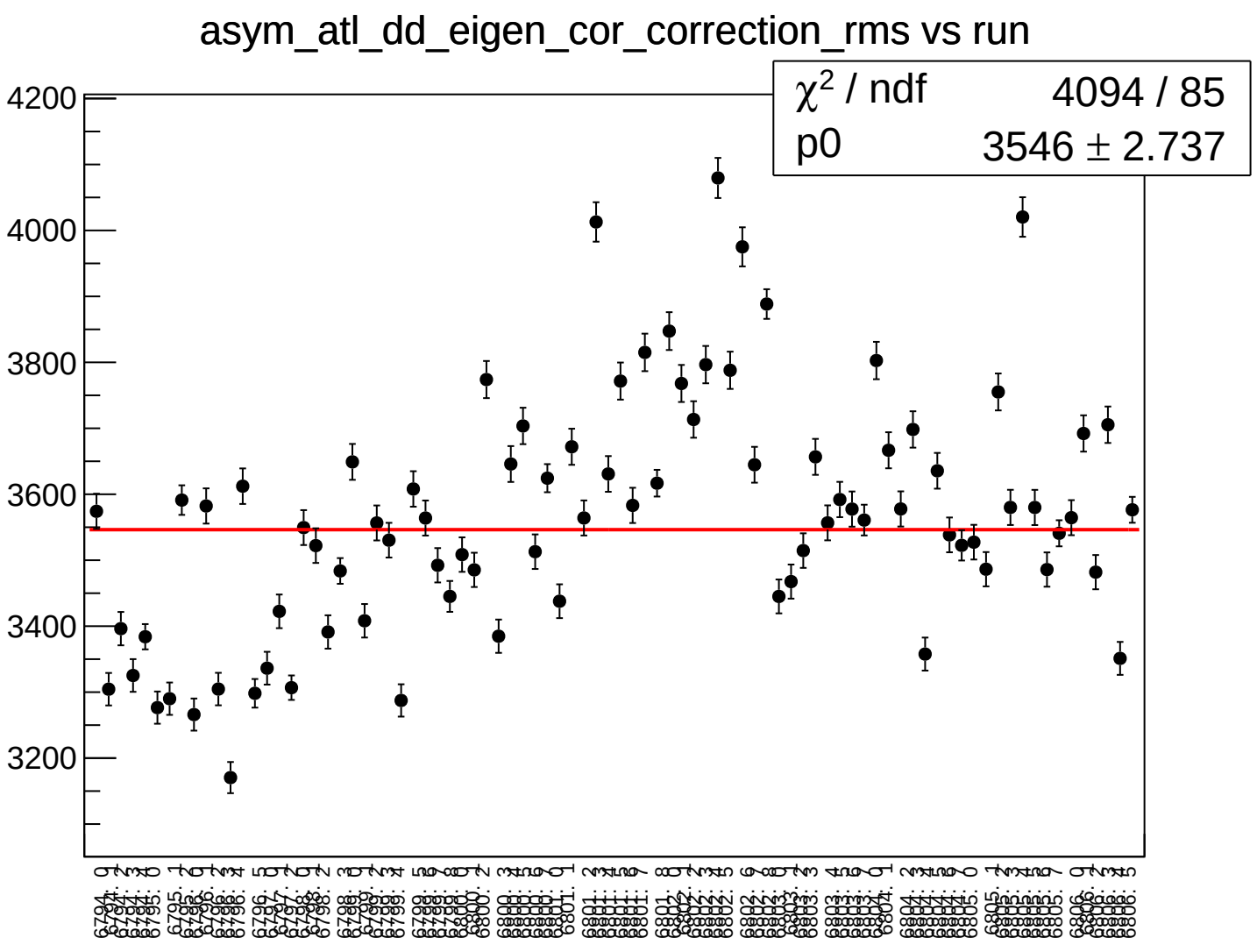

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 76.78 / 85
p0 −357.1± 1879
pull
Entries 86
Mean −44.54
Std Dev 0

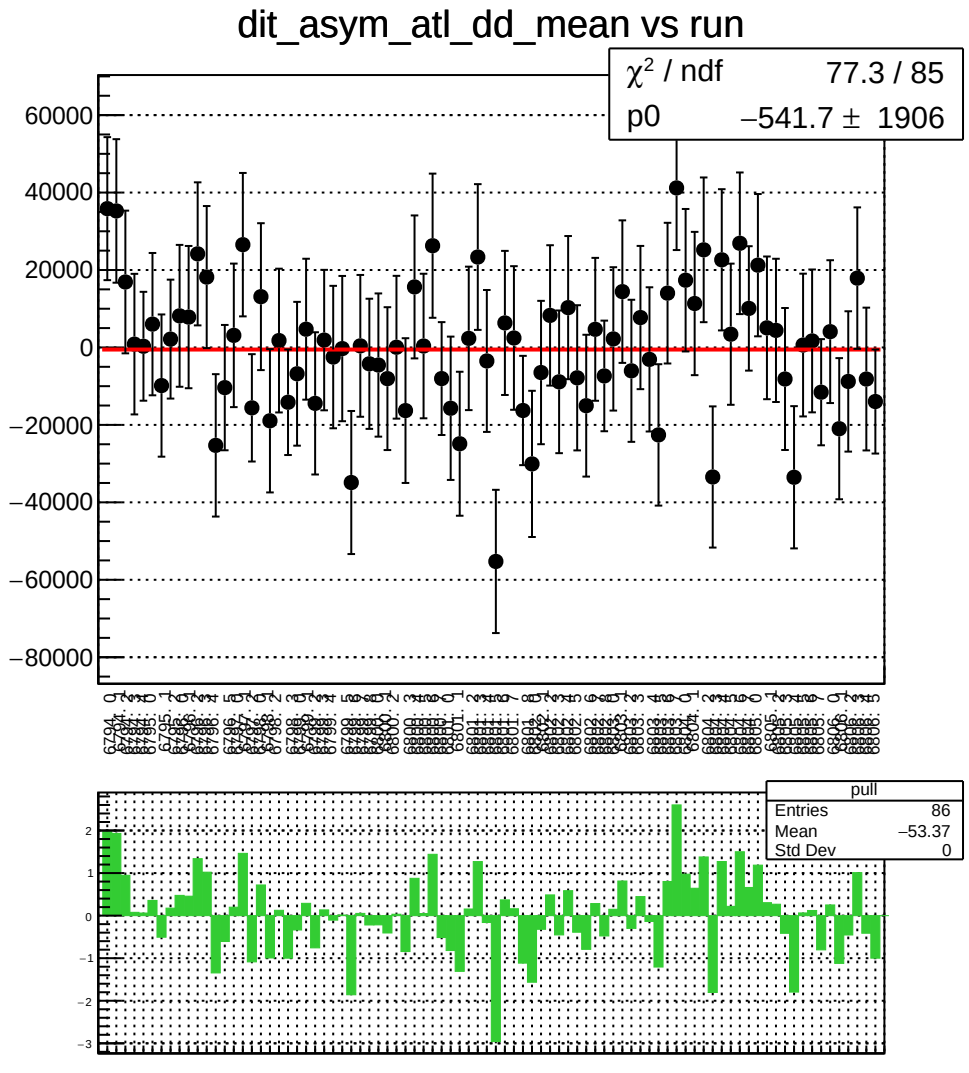

pull1D
Entries 86
Mean 0.01763
Std Dev 0.9447

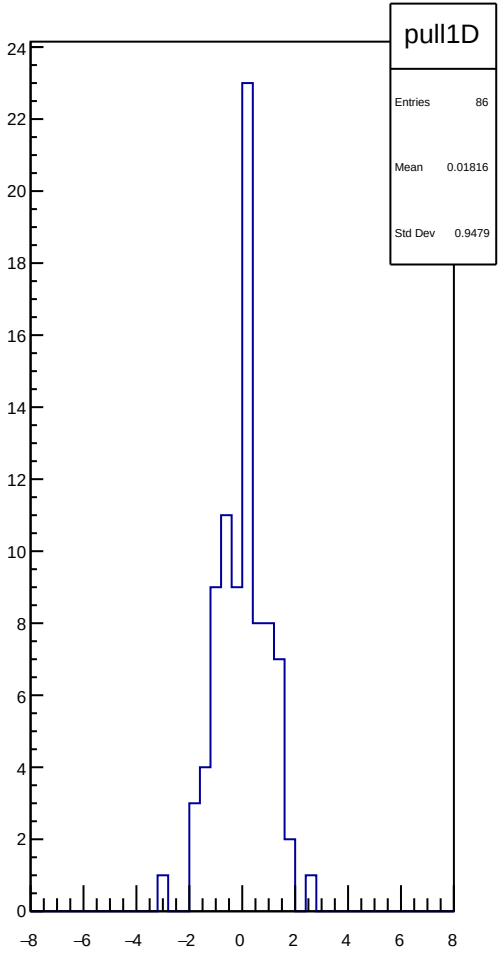

eigen_cor_asym_atl_dd_rms vs run
χ^2 / ndf 120.2 / 85
p0 1723 ± 1.328
1780
1760
1740
1720
1700
1680

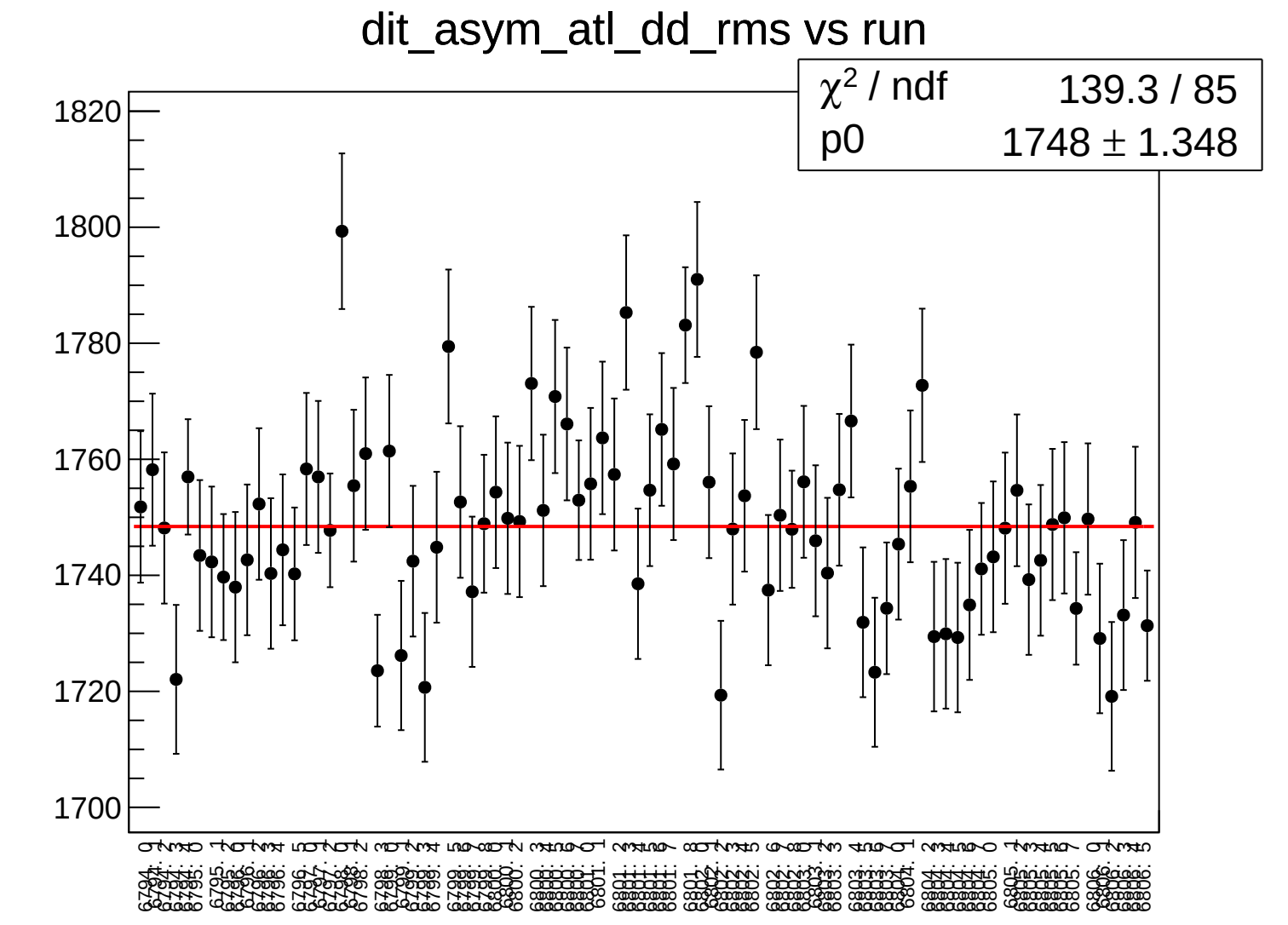

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84 / 85
p0 3523 ± 3871
150
100
50
0
−50
−100
pull
Entries 86
Mean −84.94
Std Dev 0
3
2
1
0
−1
−2
−3

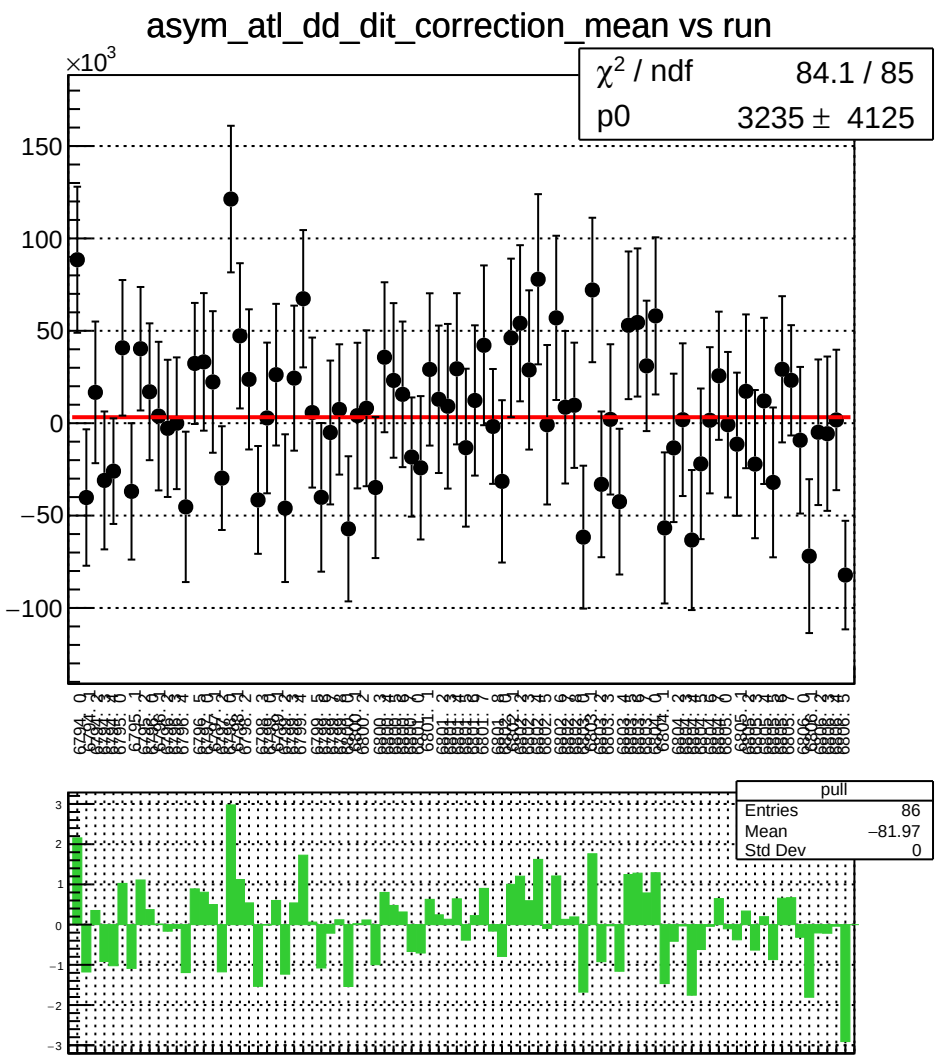

pull1D
Entries 86
Mean 0.02786
Std Dev 0.9879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

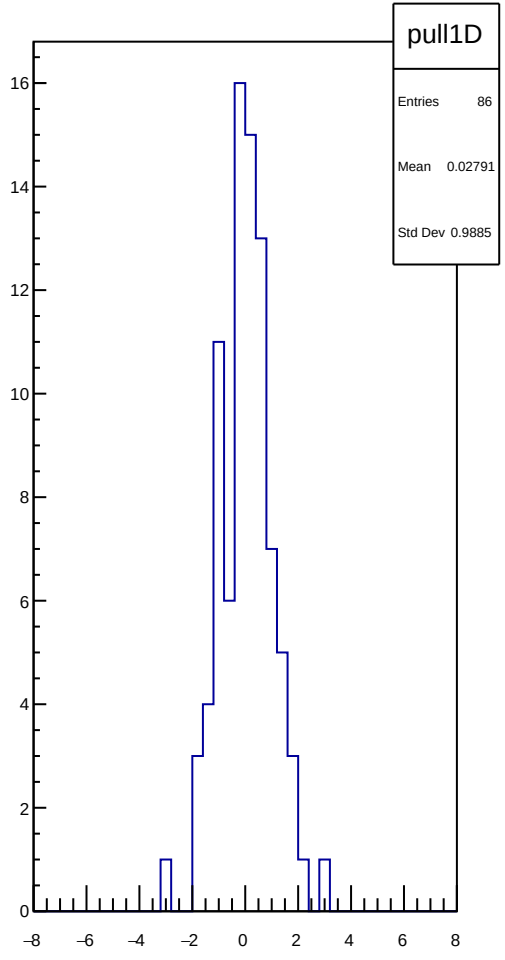

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 4094 / 85
p0 3546 ± 2.737
4200
4000
3800
3600
3400
3200

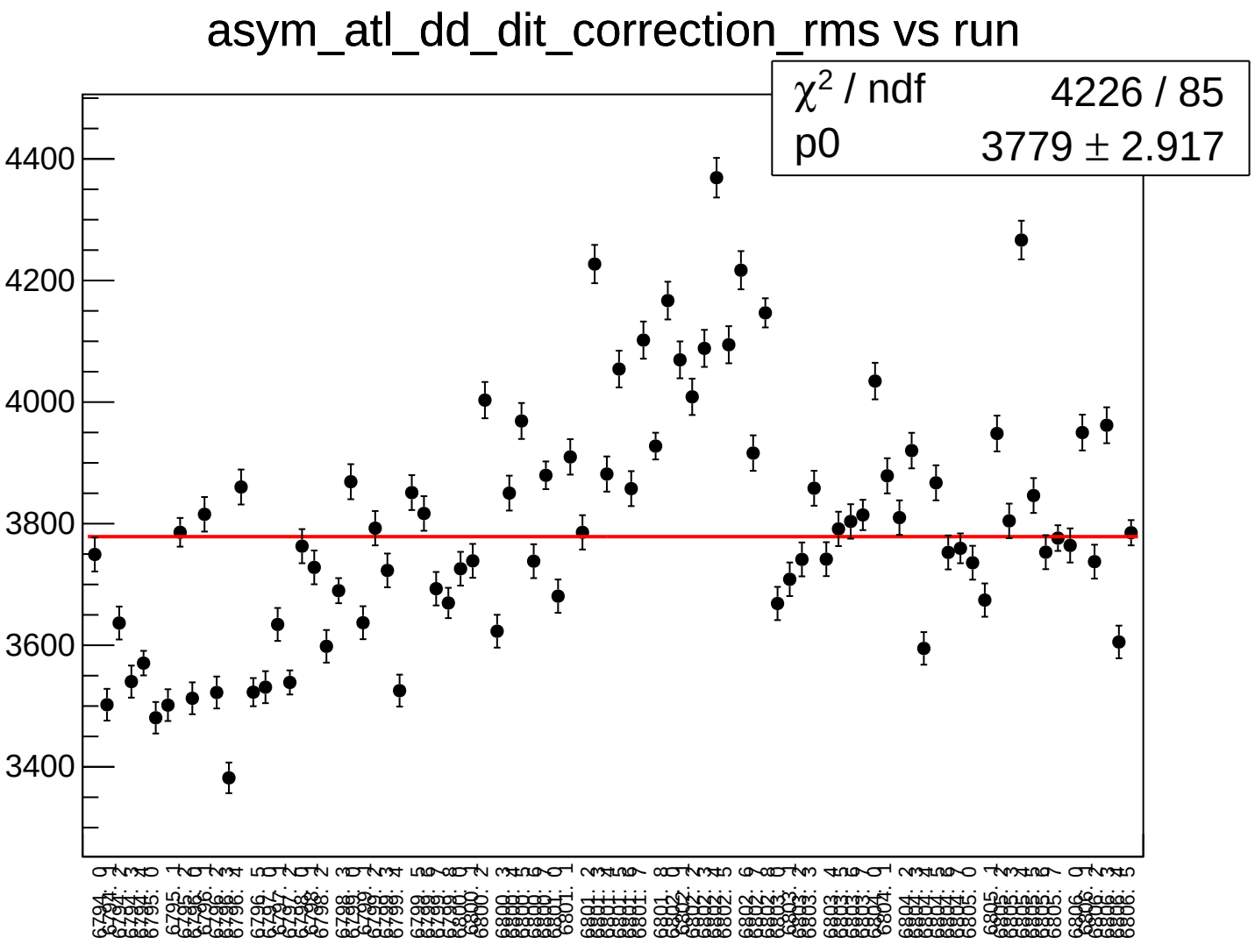

dit_asym_atl_dd_mean vs run
χ² / ndf 77.3 / 85
p0 −541.7 ± 1906
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −53.37
Std Dev 0
2
1
0
−1
−2
−3

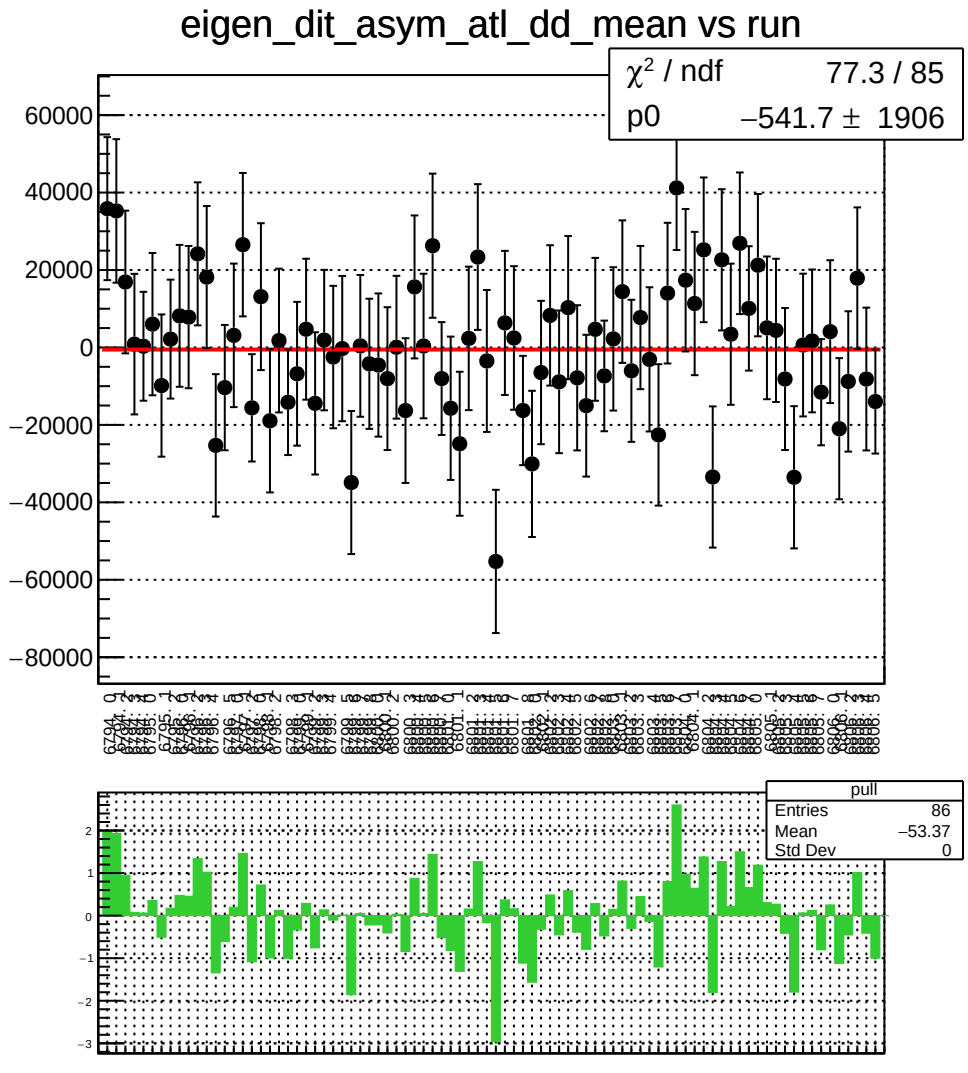

pull1D
Entries 86
Mean 0.01816
Std Dev 0.9479
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

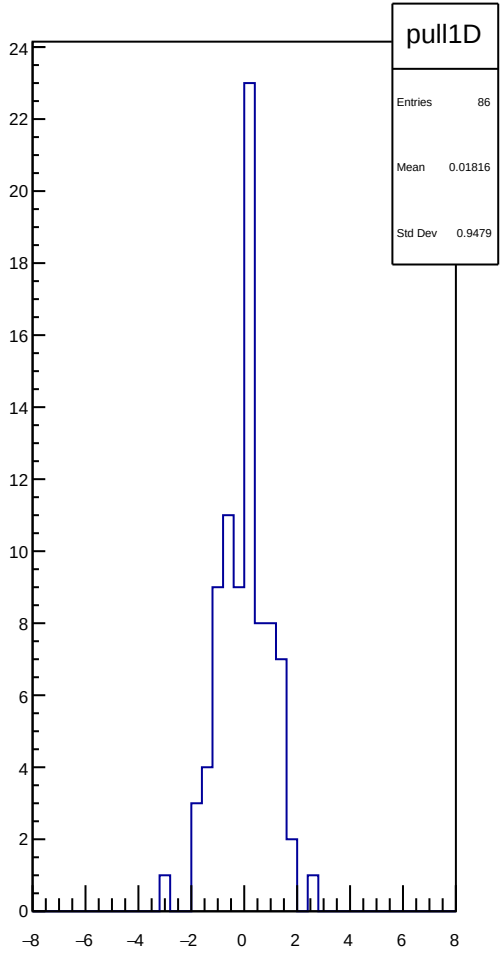

dit_asym_atl_dd_rms vs run
χ² / ndf 139.3 / 85
p0 1748 ± 1.348
1820
1800
1780
1760
1740
1720
1700

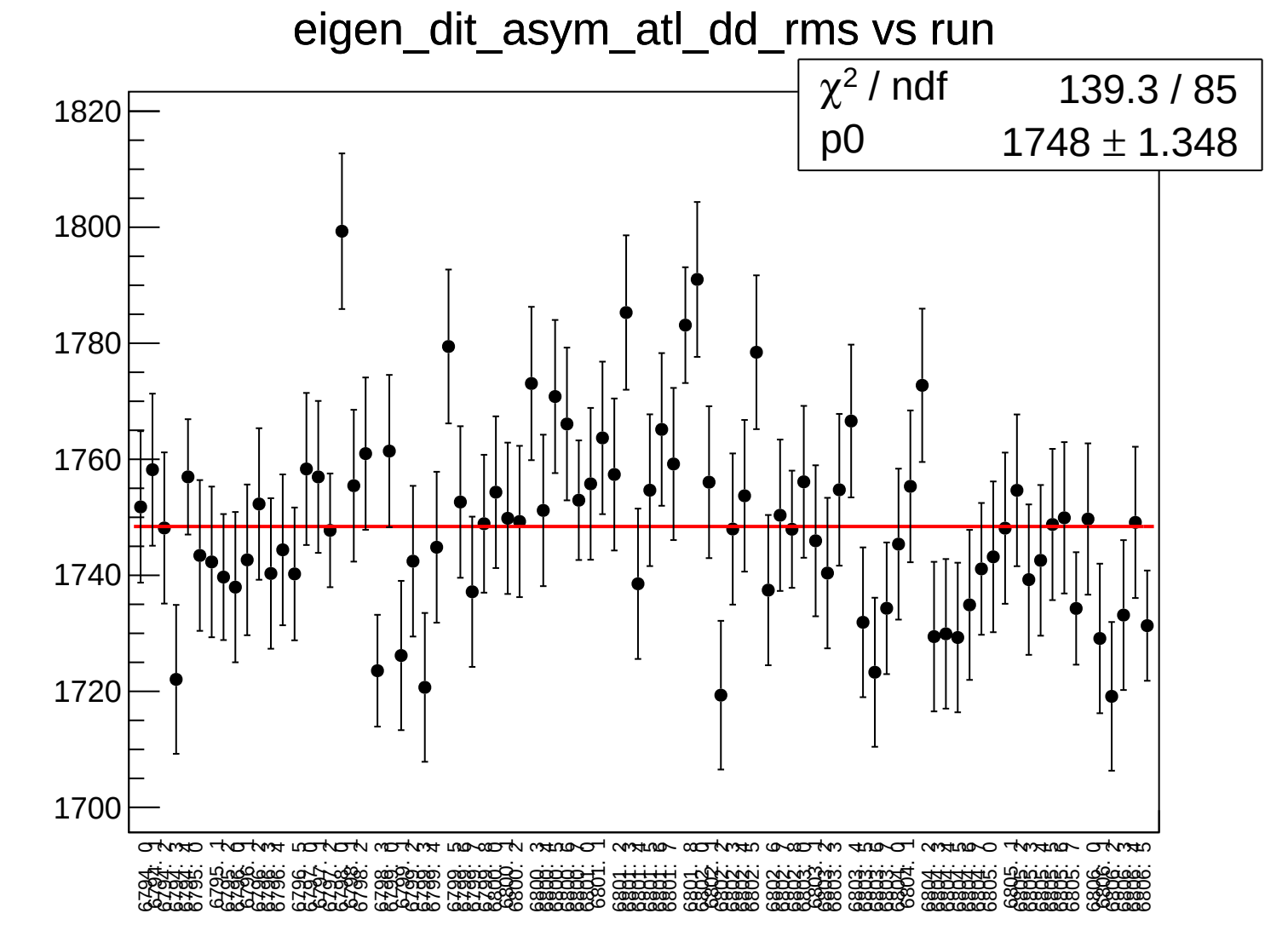

asym_atl_dd_dit_correction_mean vs run
χ² / ndf 84.1 / 85
p0 3235 ± 4125
×10³
150
100
50
0
−50
−100
pull
Entries 86
Mean −81.97
Std Dev 0
3
2
1
0
−1
−2
−3

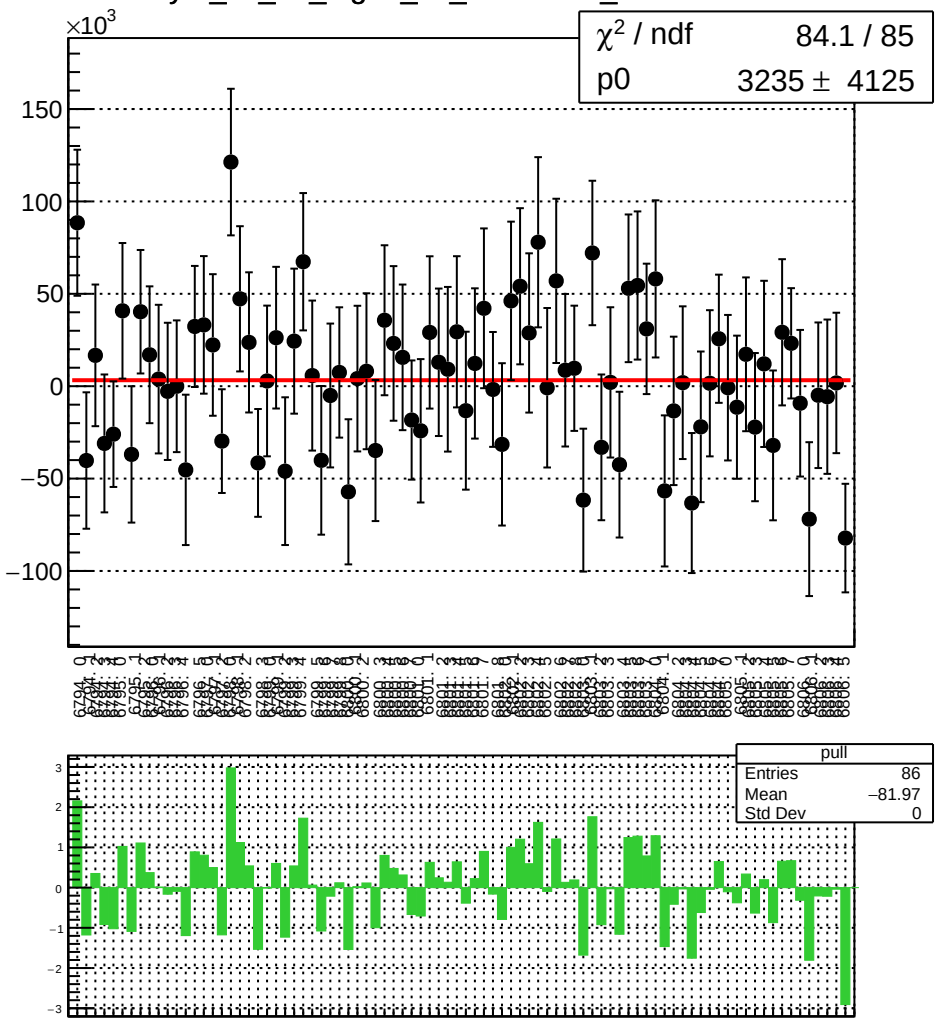

pull1D
Entries 86
Mean 0.02791
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

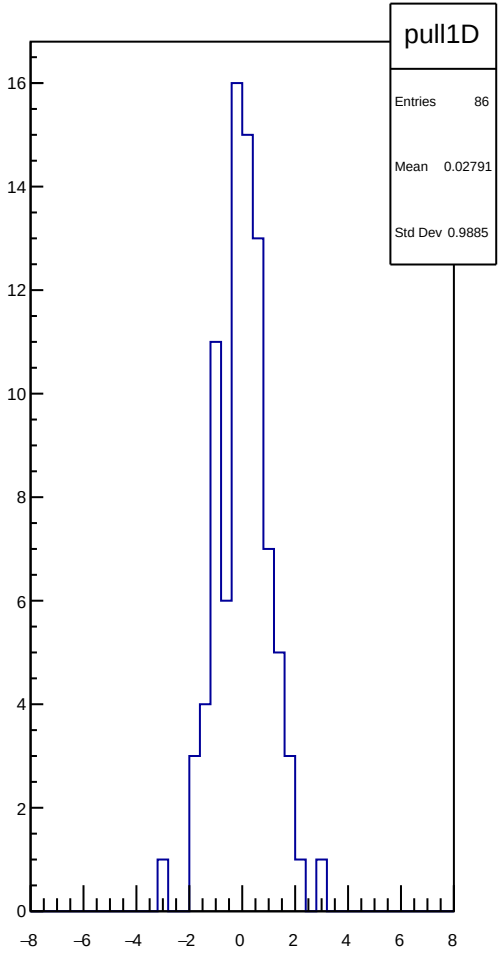

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 4226 / 85
p0 3779 ± 2.917
4400
4200
4000
3800
3600
3400

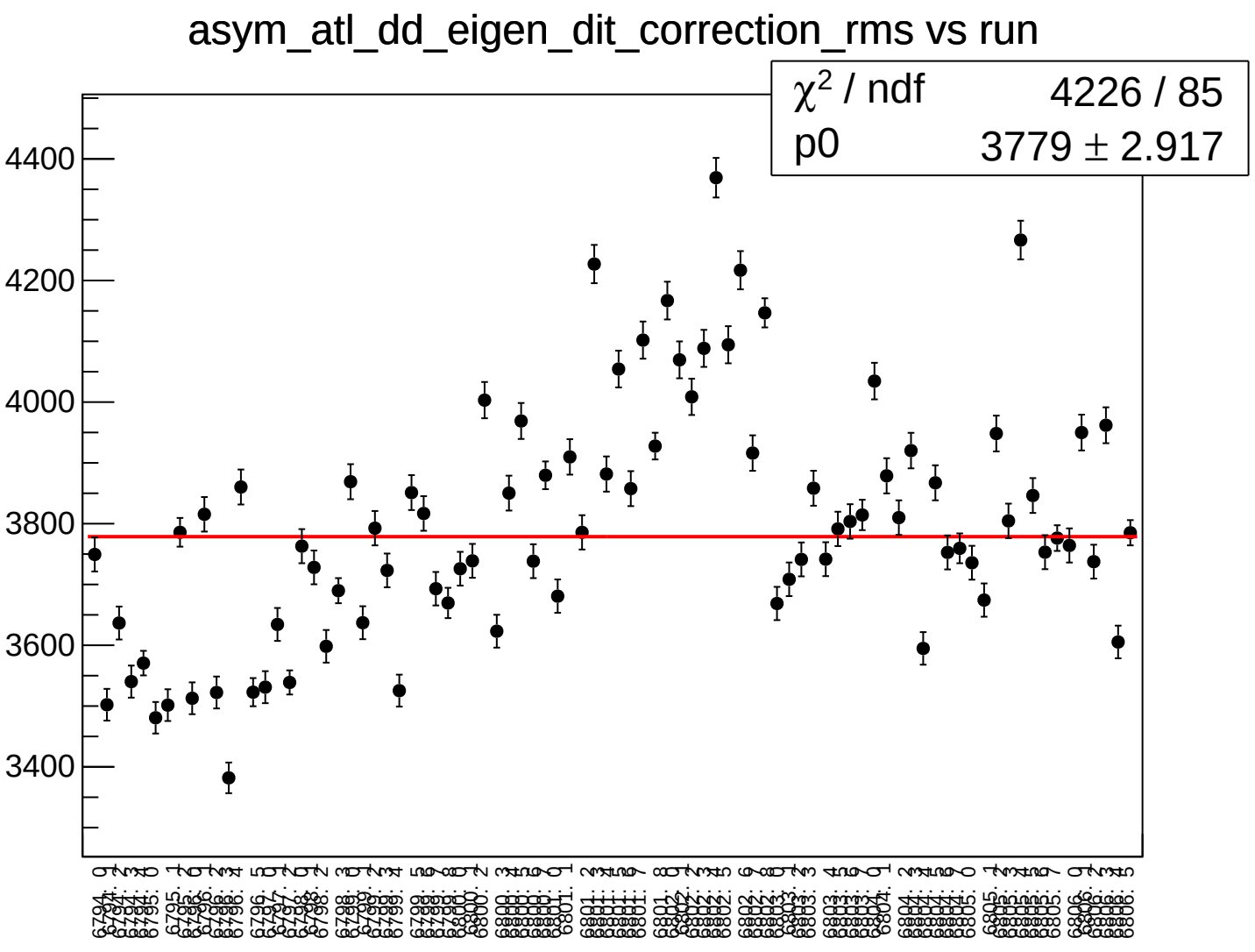

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 77.3 / 85
p0 −541.7 ± 1906
pull
Entries 86
Mean −53.37
Std Dev 0

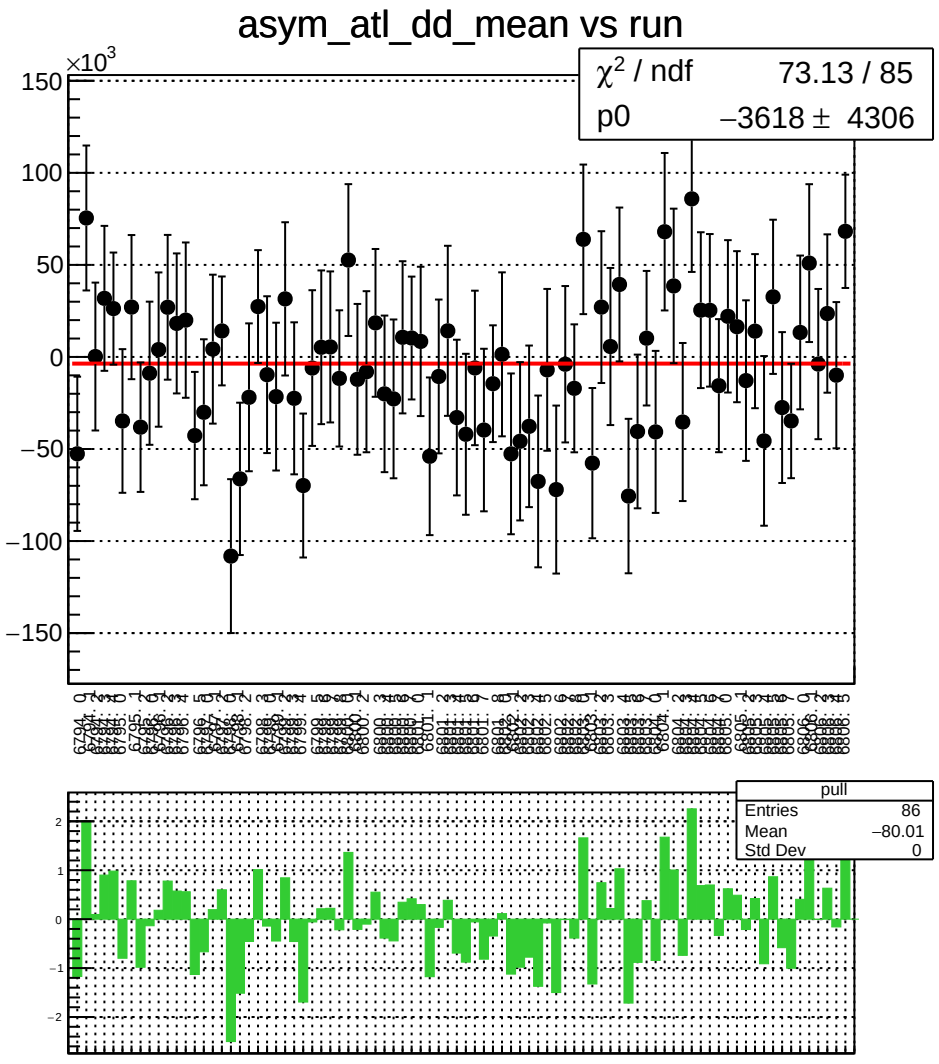

pull1D
Entries 86
Mean 0.01816
Std Dev 0.9479

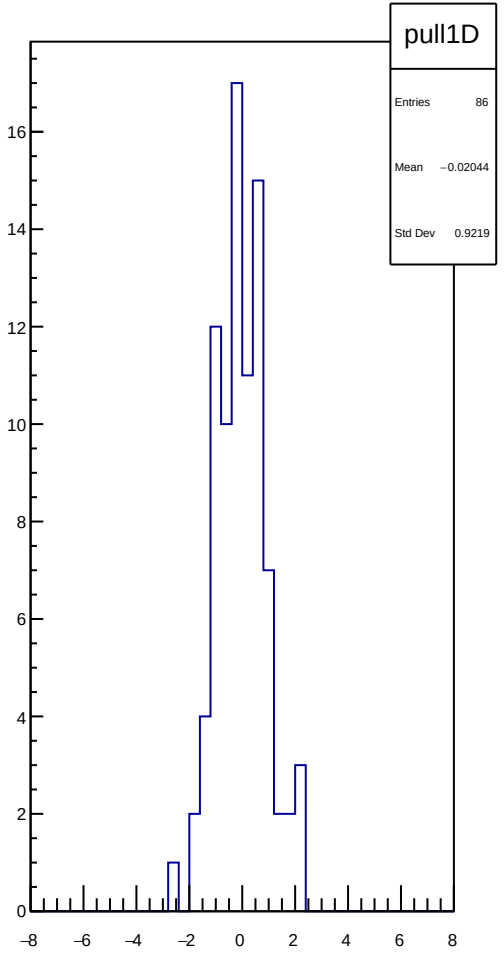

eigen_dit_asym_atl_dd_rms vs run
χ² / ndf 139.3 / 85
p0 1748 ± 1.348
1820
1800
1780
1760
1740
1720
1700

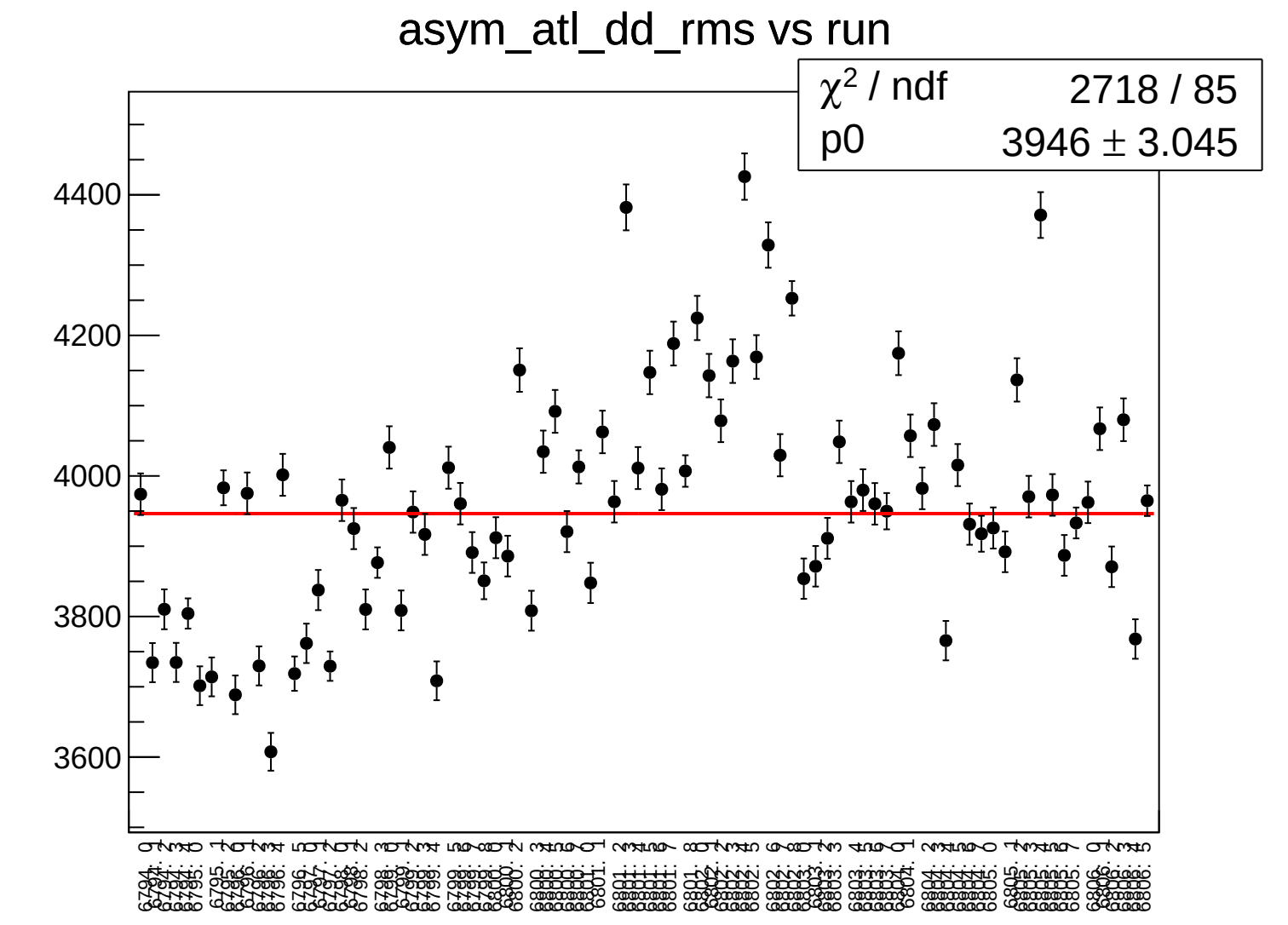

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.1 / 85
p0 3235 ± 4125
150
100
50
0
−50
−100
pull
Entries 86
Mean −81.97
Std Dev 0
3
2
1
0
−1
−2
−3

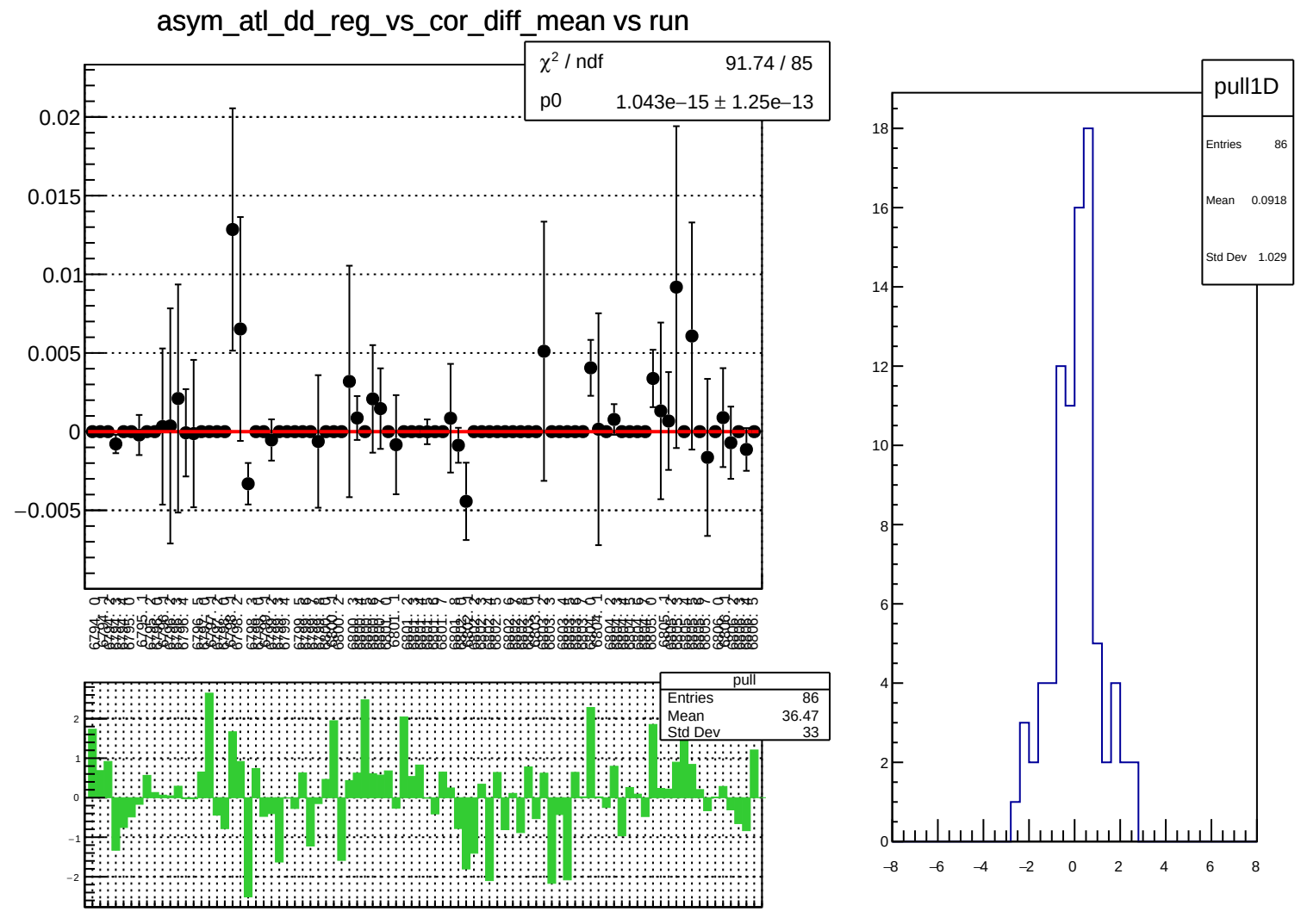

pull1D
Entries 86
Mean 0.02791
Std Dev 0.9885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

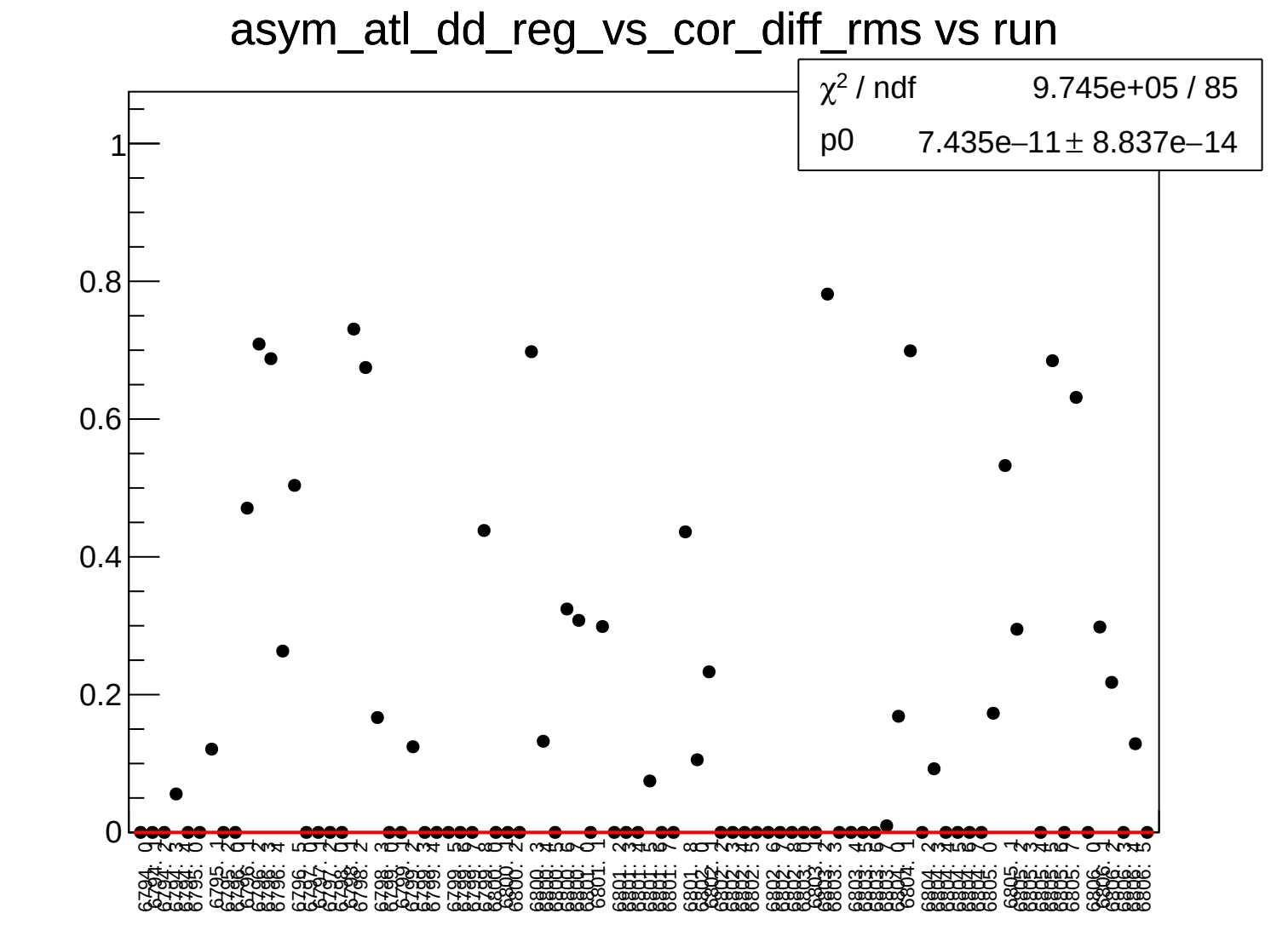

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 4226 / 85
p0 3779 ± 2.917
4400
4200
4000
3800
3600
3400

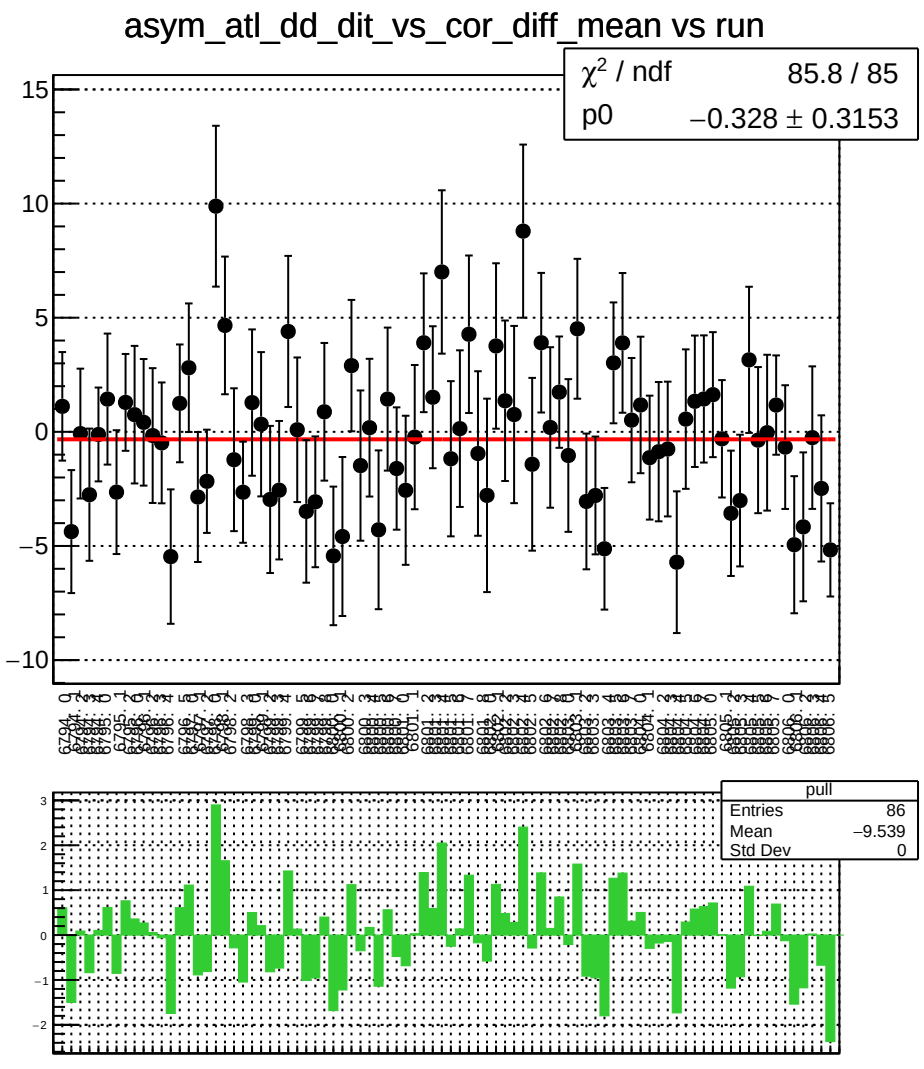

asym_atl_dd_mean vs run
×10^3
χ² / ndf 73.13 / 85
p0 −3618 ± 4306
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −80.01
Std Dev 0
2
1
0
−1
−2

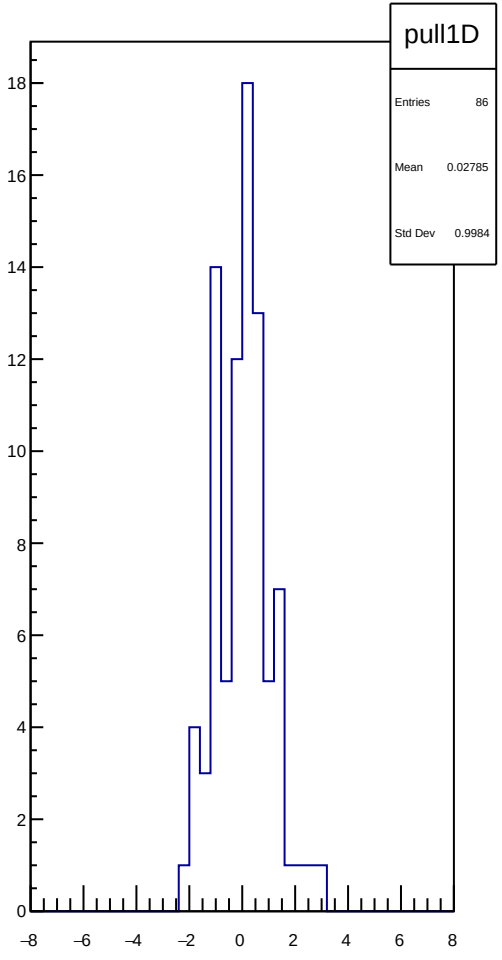

pull1D
Entries 86
Mean −0.02044
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

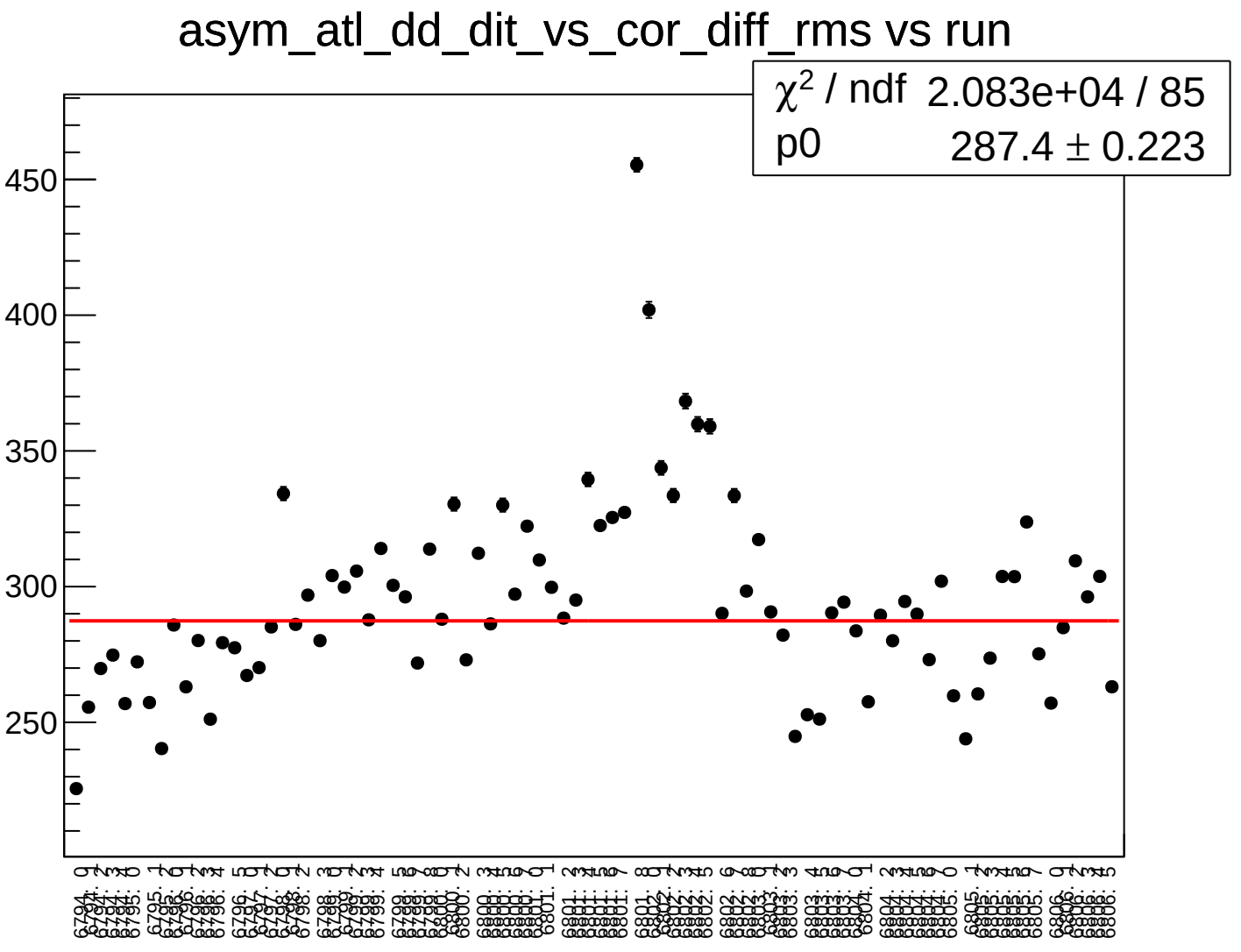

asym_atl_dd_rms vs run
χ² / ndf 2718 / 85
p0 3946 ± 3.045
4400
4200
4000
3800
3600

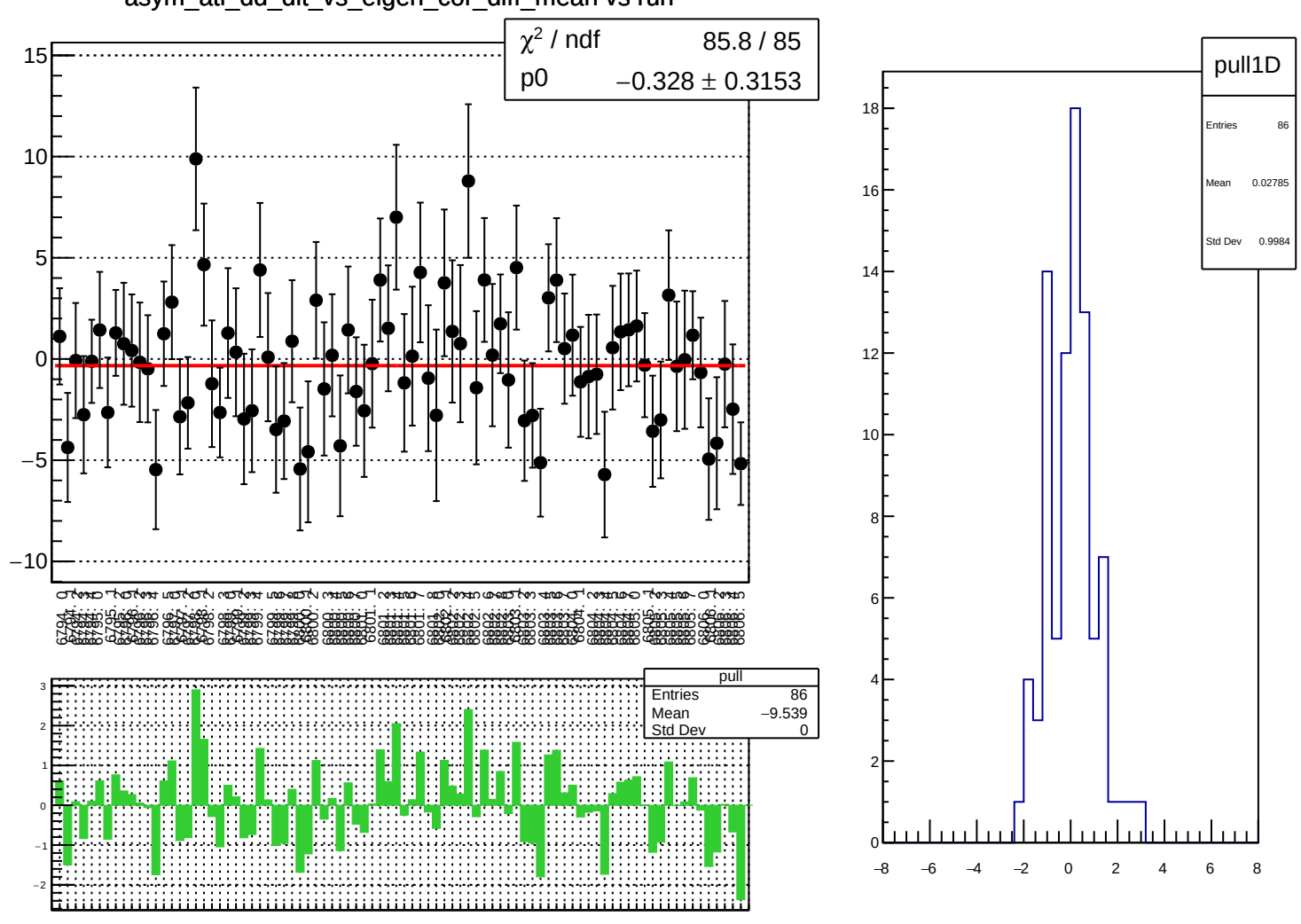

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.74 / 85
p0 1.043e−15 ± 1.25e−13
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 86
Mean 36.47
Std Dev 33
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0918
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

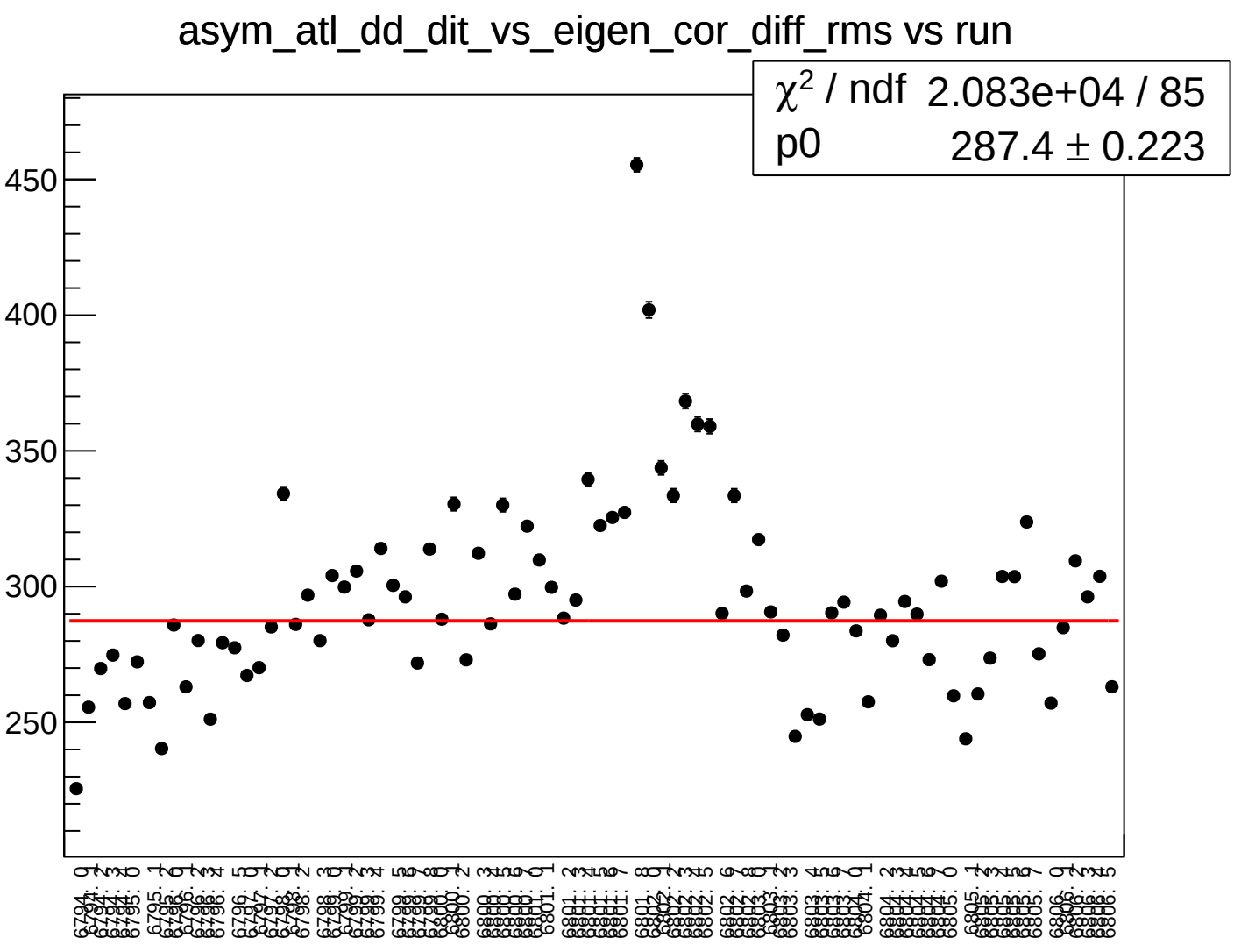

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.745e+05 / 85
p0 7.435e−11 ± 8.837e−14
1
0.8
0.6
0.4
0.2
0

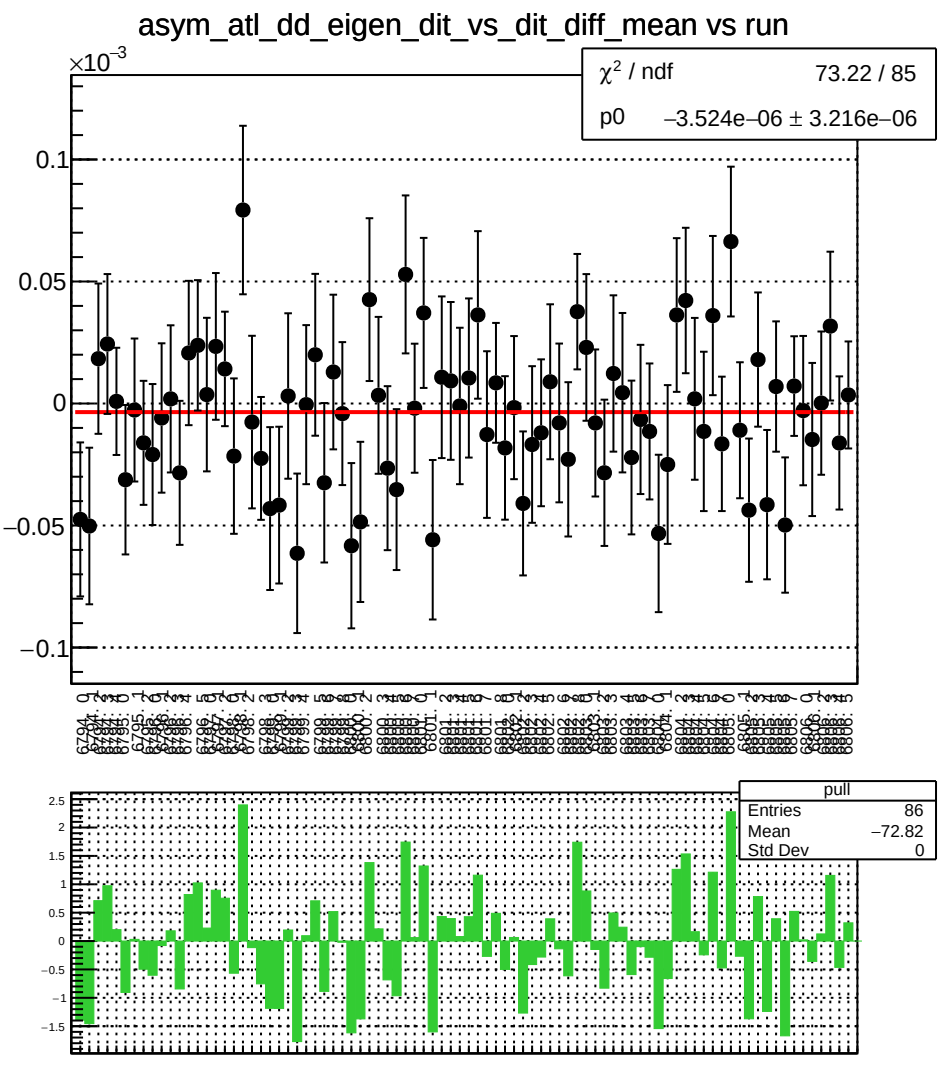

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 85
p0 −0.328 ± 0.3153
pull
Entries 86
Mean −9.539
Std Dev 0

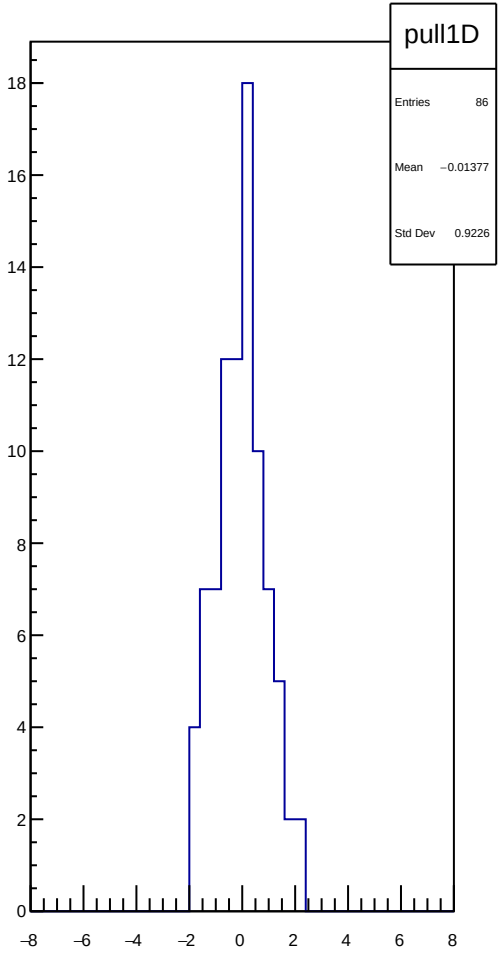

pull1D
Entries 86
Mean 0.02785
Std Dev 0.9984

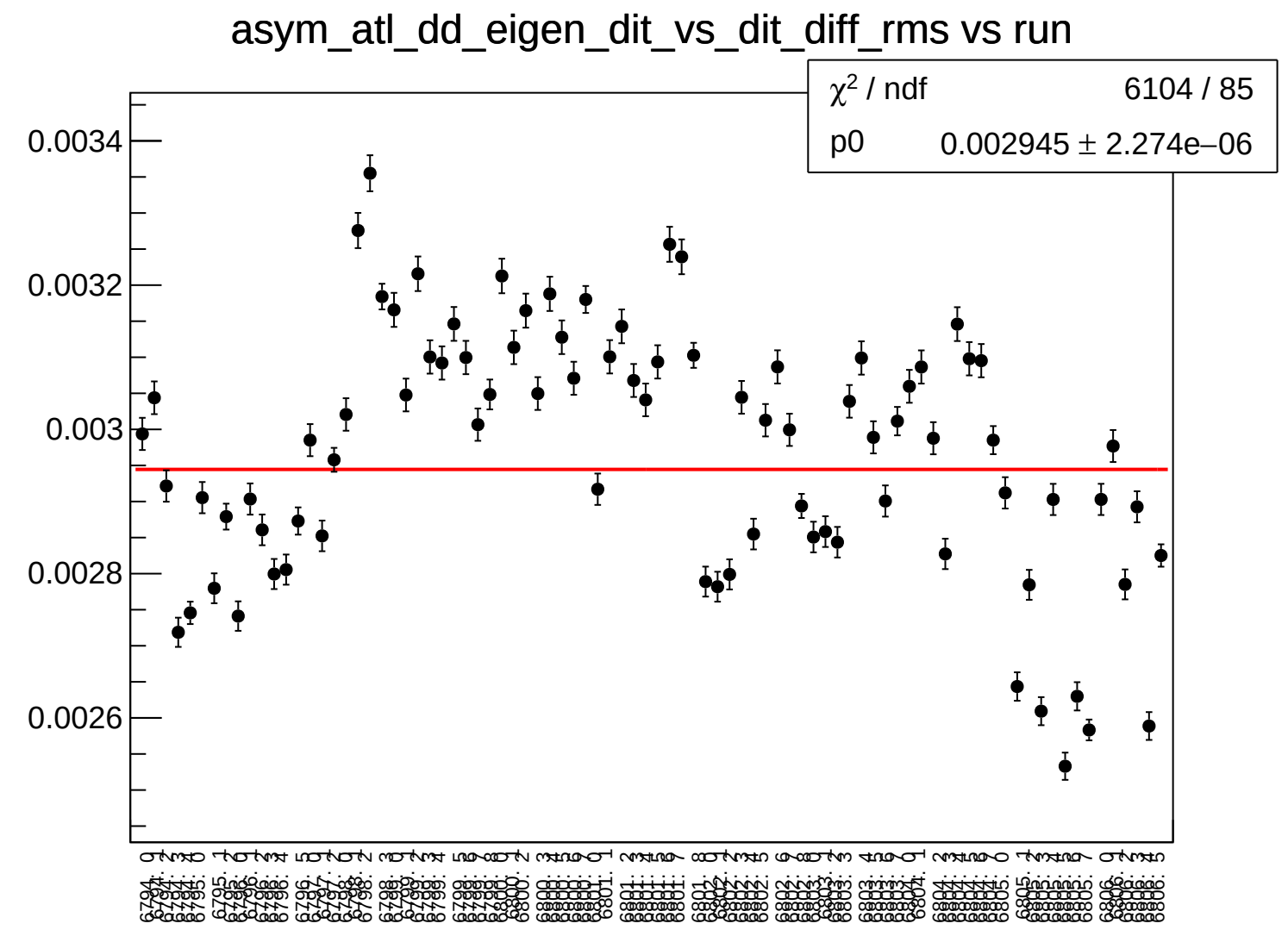

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 85
p0 287.4 ± 0.223
450
400
350
300
250

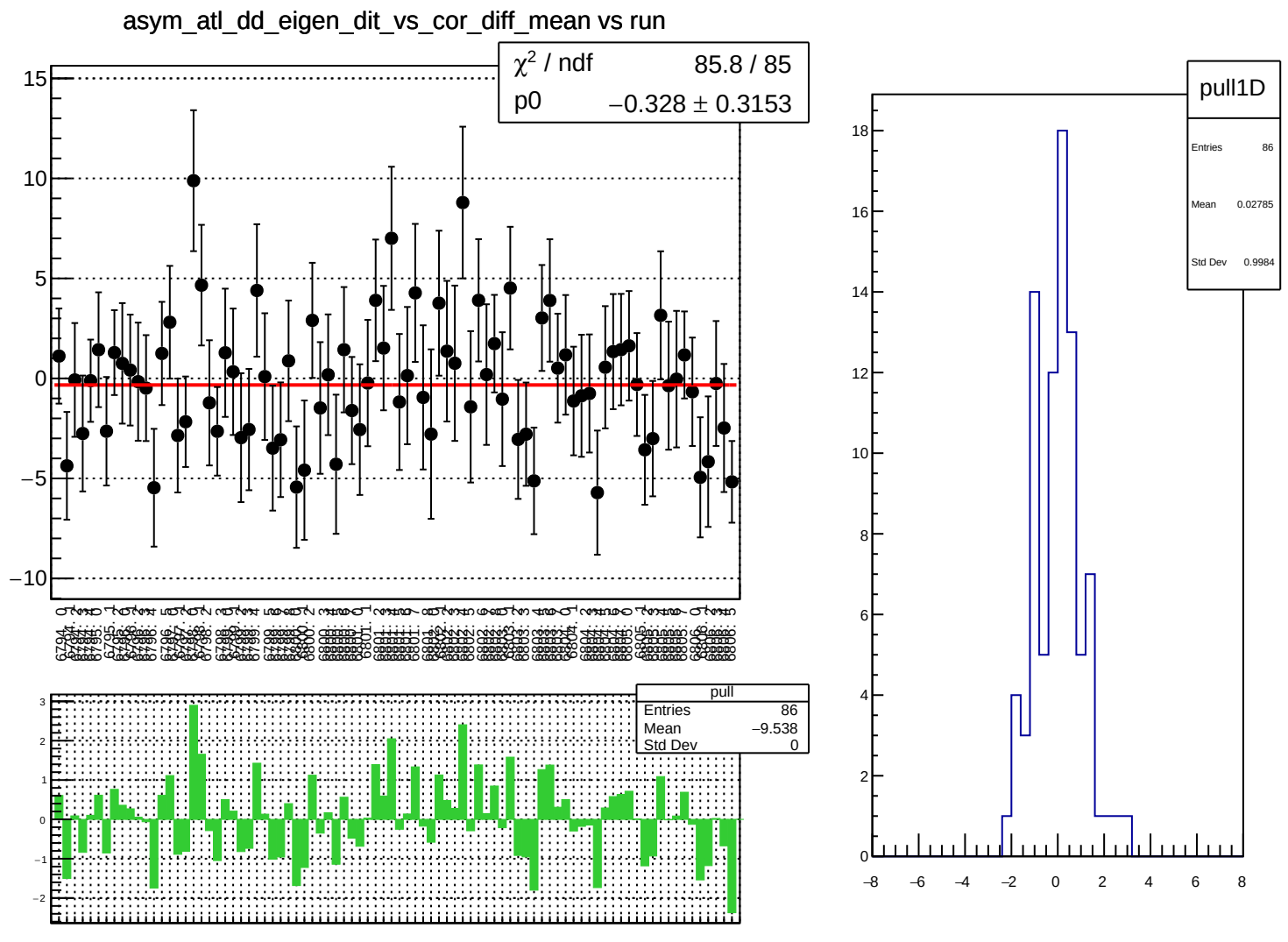

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 85
p0 −0.328 ± 0.3153
pull
Entries 86
Mean −9.539
Std Dev 0
pull1D
Entries 86
Mean 0.02785
Std Dev 0.9984

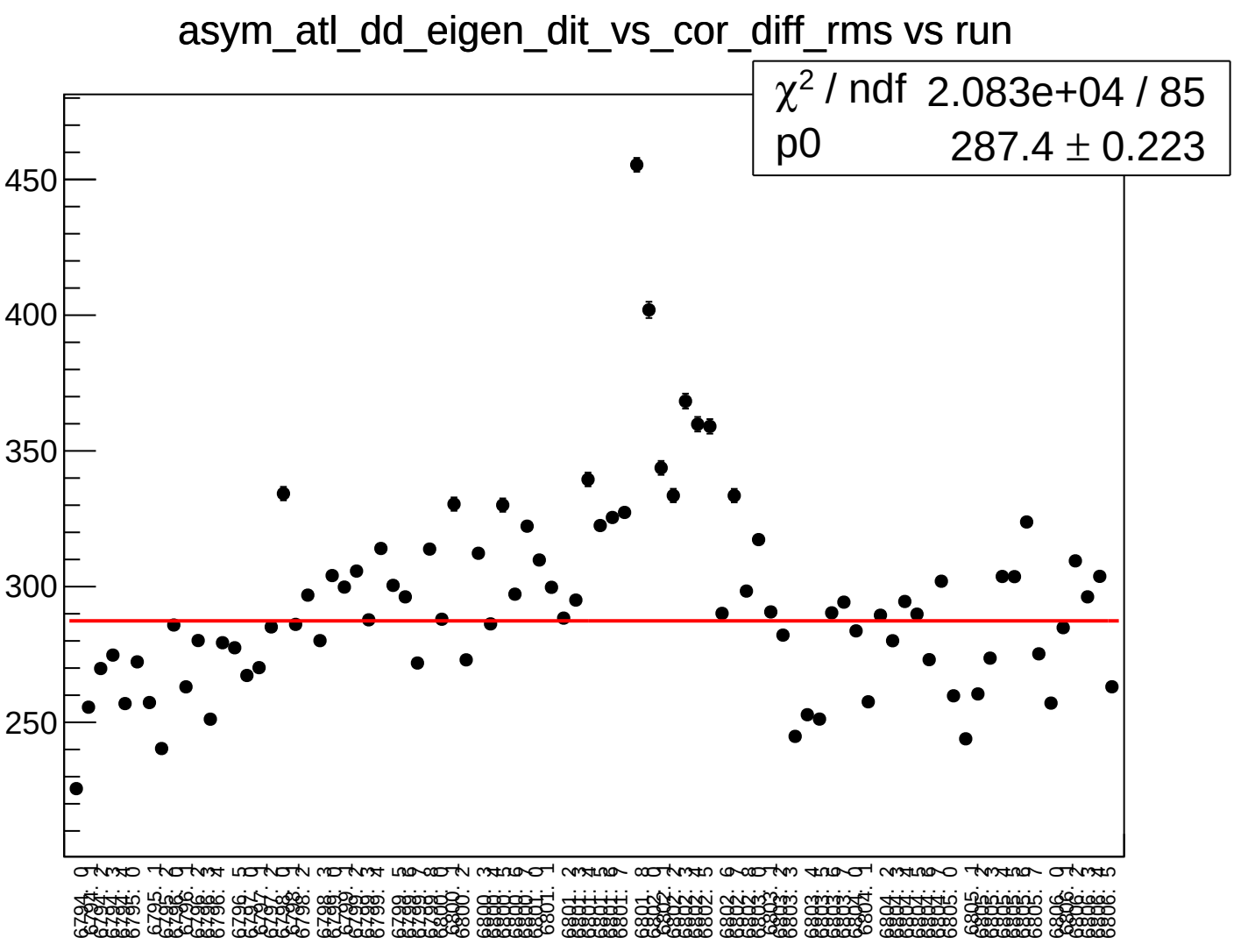

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 85
p0 287.4 ± 0.223
450
400
350
300
250

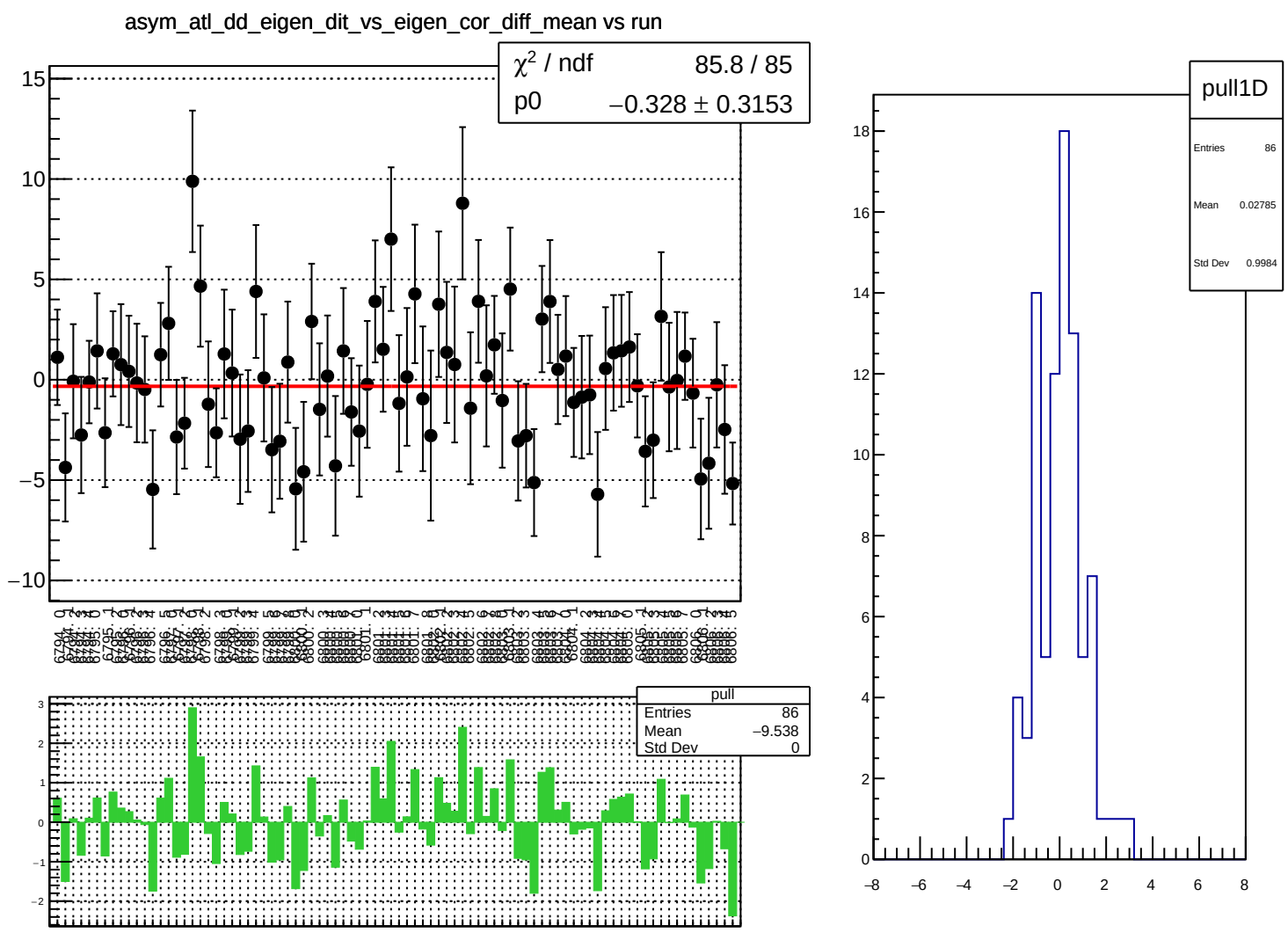

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.22 / 85
p0 −3.524e−06 ± 3.216e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −72.82
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

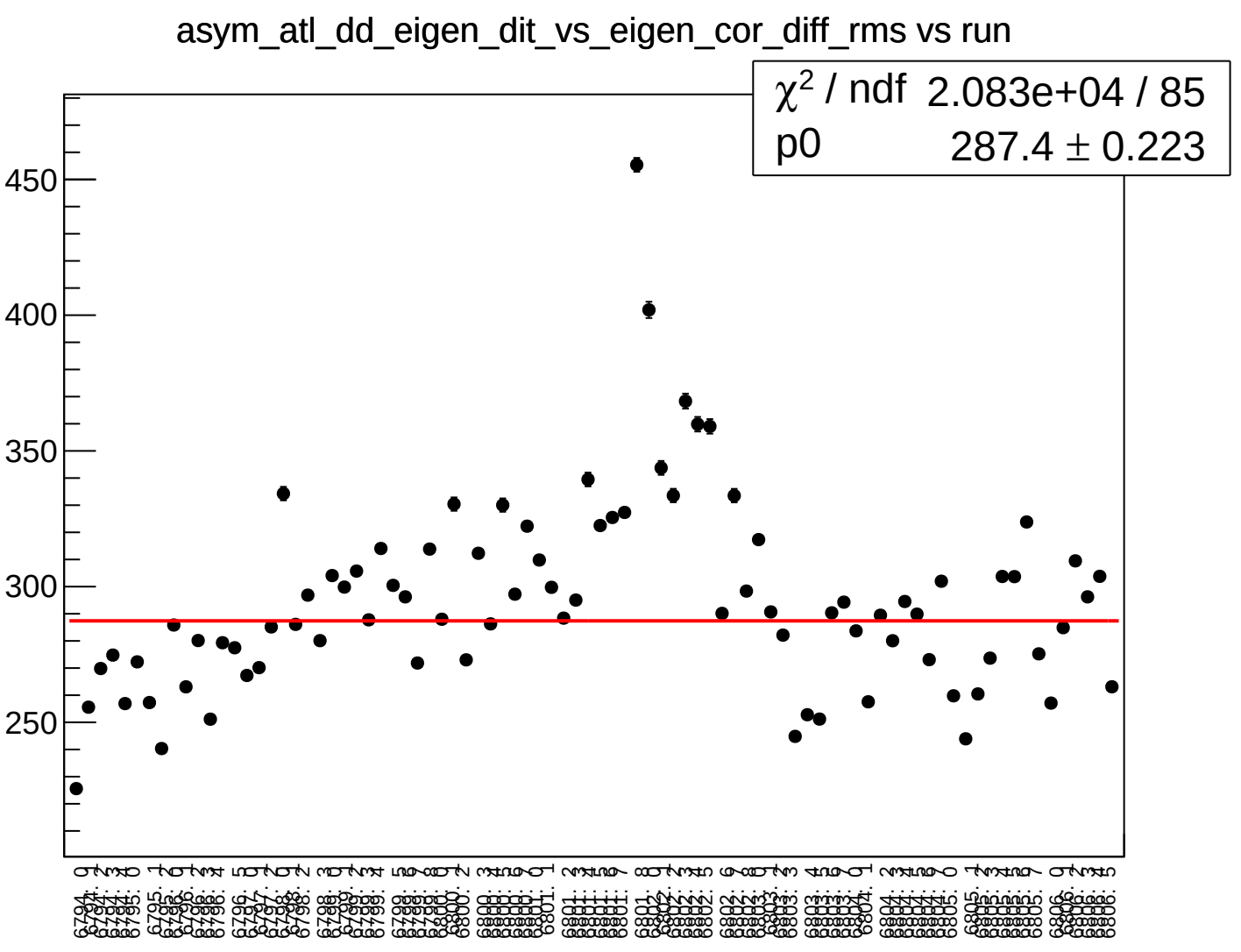

pull1D
Entries 86
Mean −0.01377
Std Dev 0.9226
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

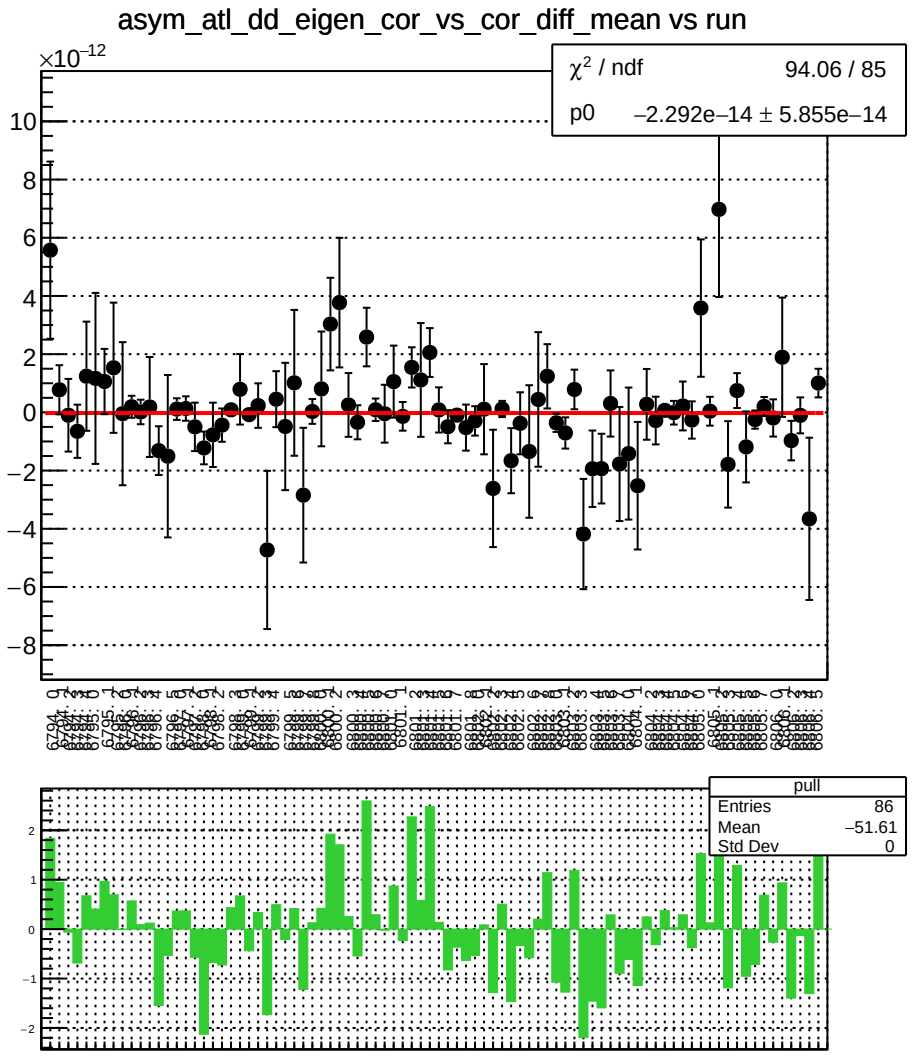

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6104 / 85
p0 0.002945 ± 2.274e−06
0.0034
0.0032
0.003
0.0028
0.0026

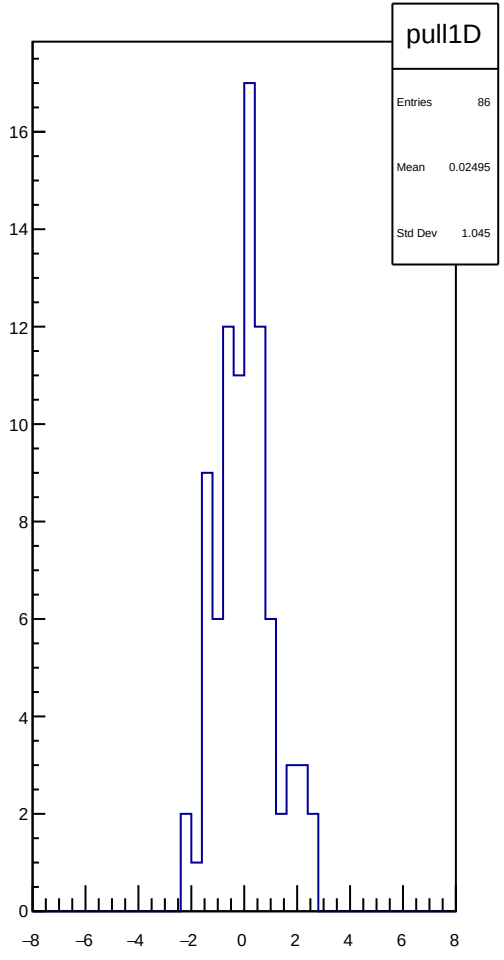

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.8 / 85
p0 −0.328 ± 0.3153
pull
Entries 86
Mean −9.538
Std Dev 0
pull1D
Entries 86
Mean 0.02785
Std Dev 0.9984

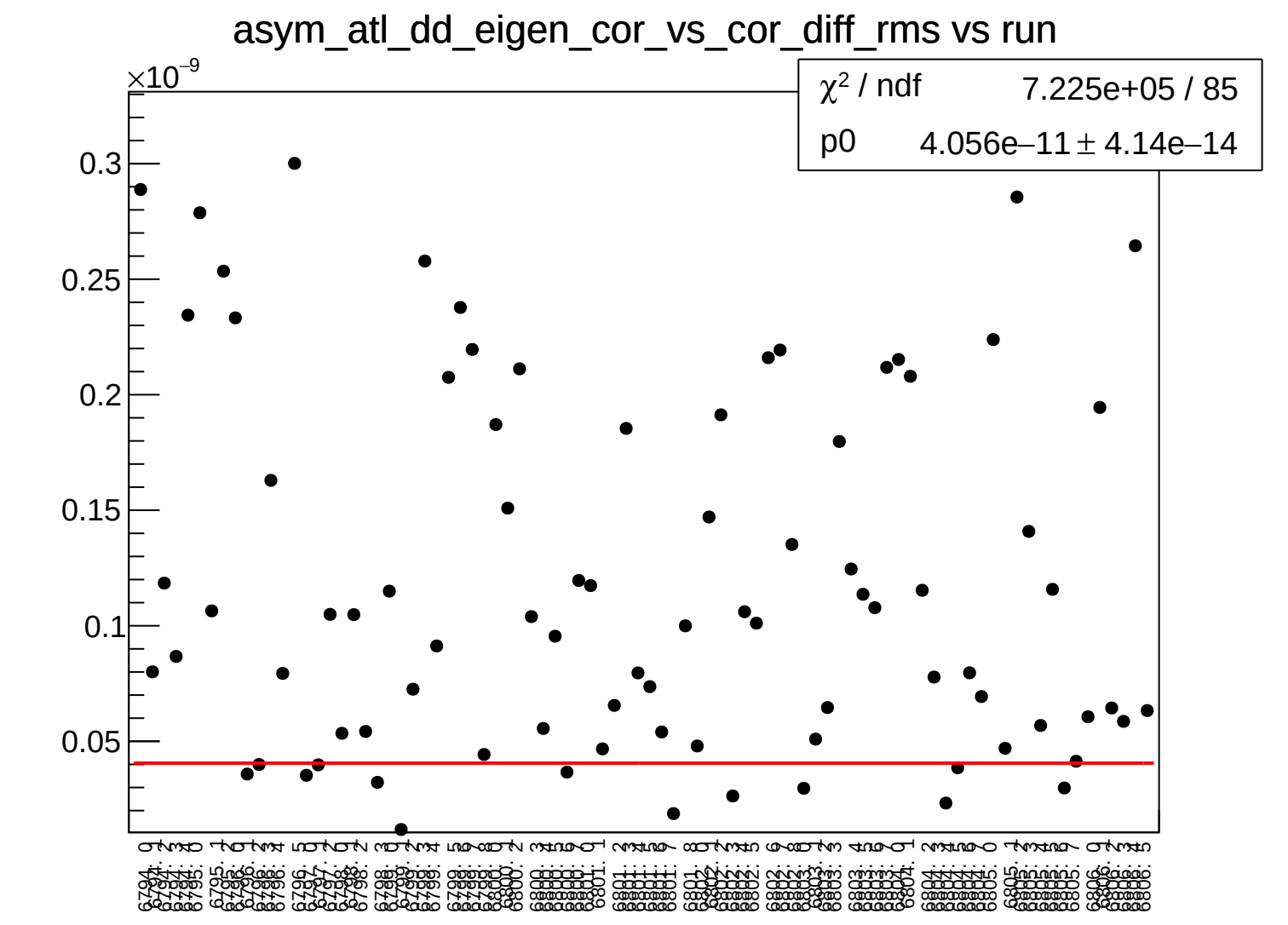

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 85
p0 287.4 ± 0.223
450
400
350
300
250

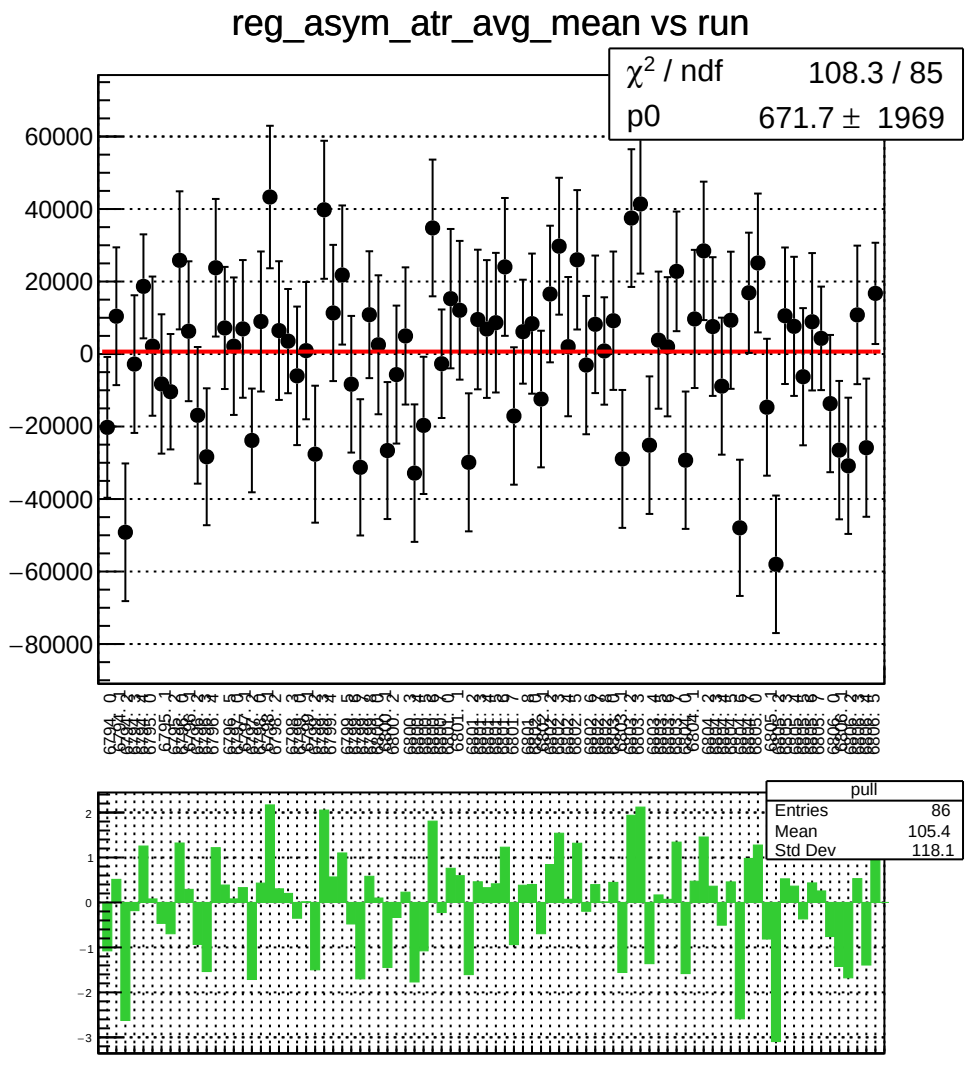

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.8 / 85
p0 −0.328 ± 0.3153
pull
Entries 86
Mean −9.538
Std Dev 0
pull1D
Entries 86
Mean 0.02785
Std Dev 0.9984

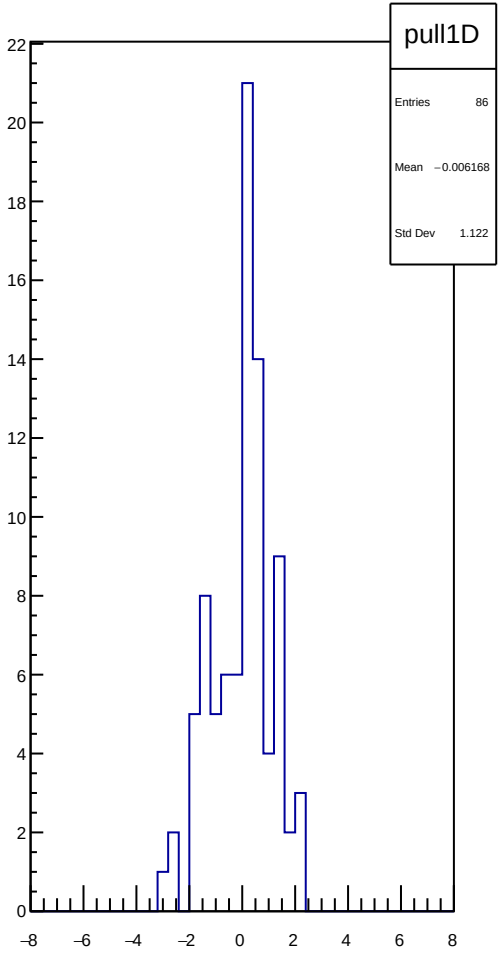

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.083e+04 / 85
p0 287.4 ± 0.223
450
400
350
300
250

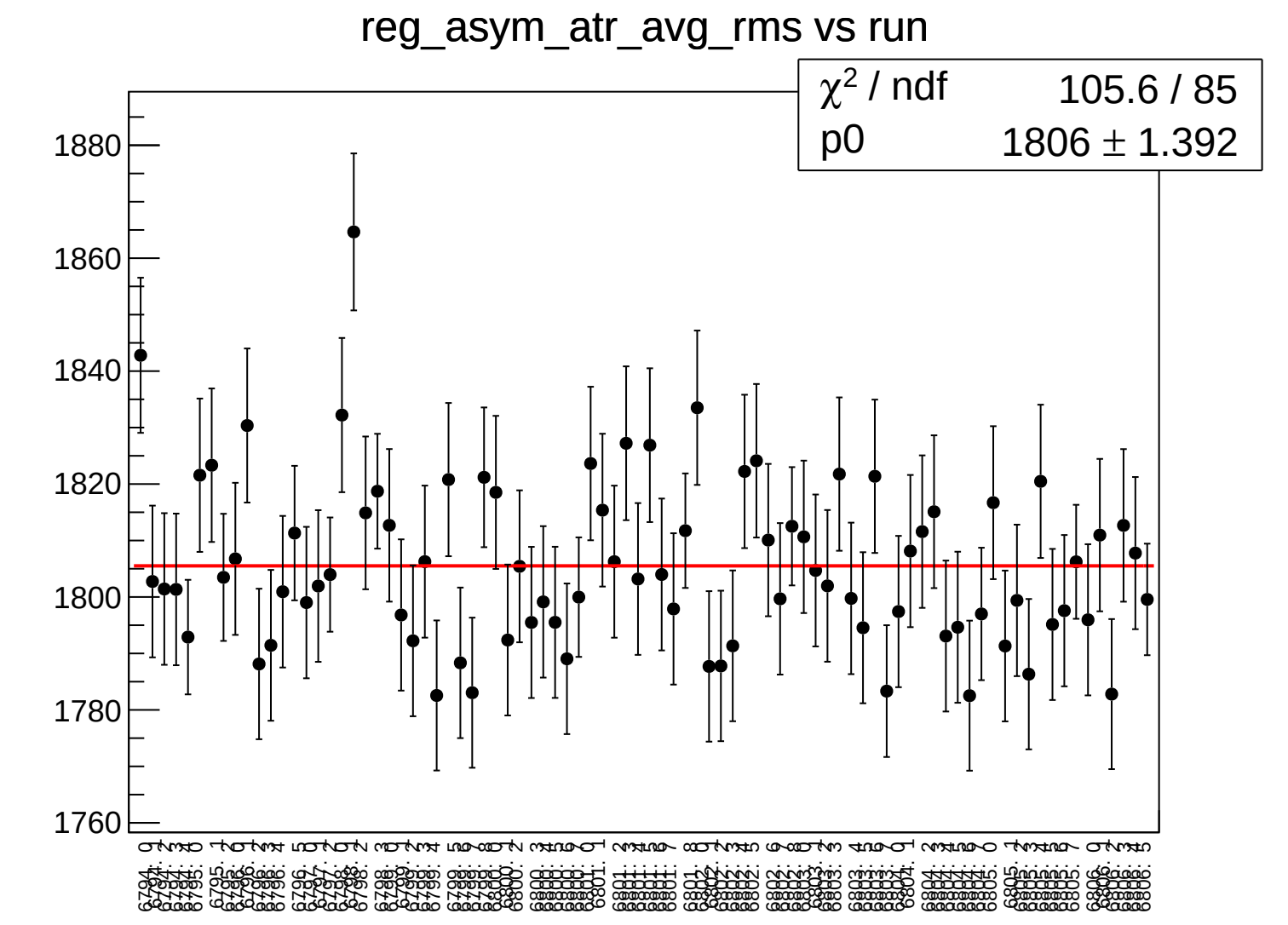

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.06 / 85
p0 −2.292e−14 ± 5.855e−14
pull
Entries 86
Mean −51.61
Std Dev 0

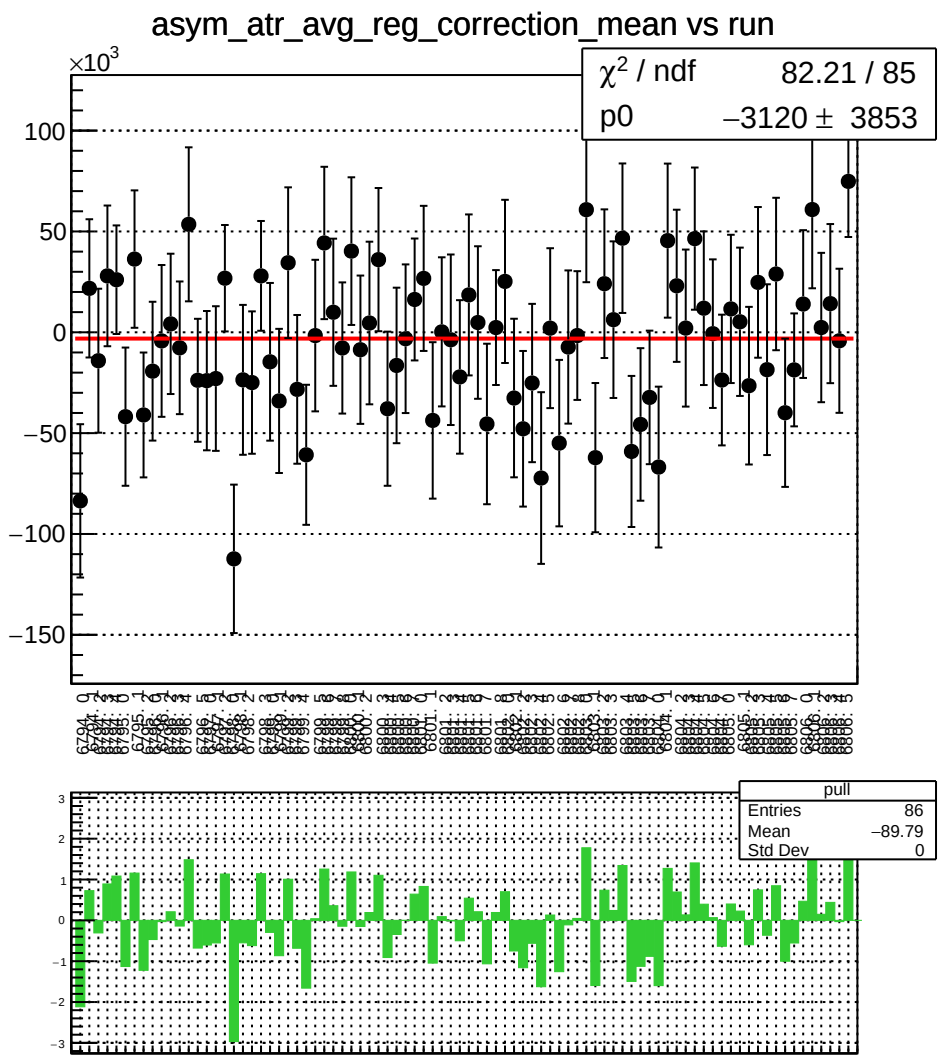

pull1D
Entries 86
Mean 0.02495
Std Dev 1.045

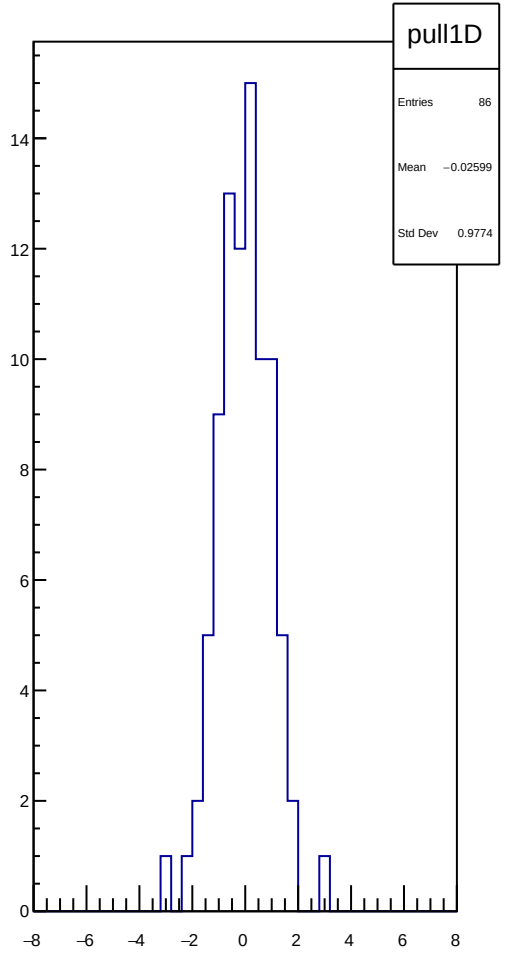

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.225e+05 / 85
p0 4.056e−11 ± 4.14e−14
0.3
0.25
0.2
0.15
0.1
0.05

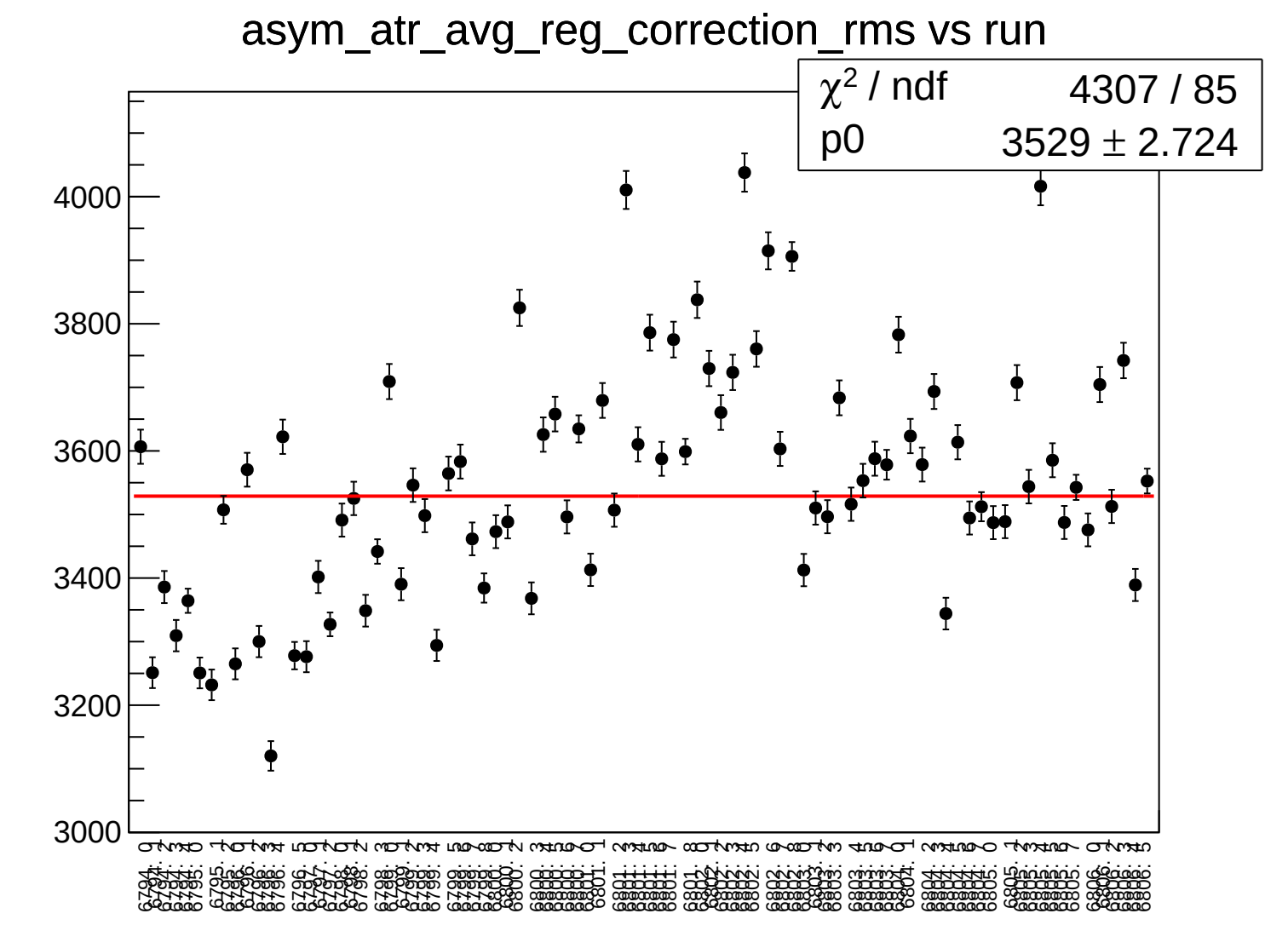

reg_asym_atr_avg_mean vs run
χ² / ndf 108.3 / 85
p0 671.7 ± 1969
pull
Entries 86
Mean 105.4
Std Dev 118.1

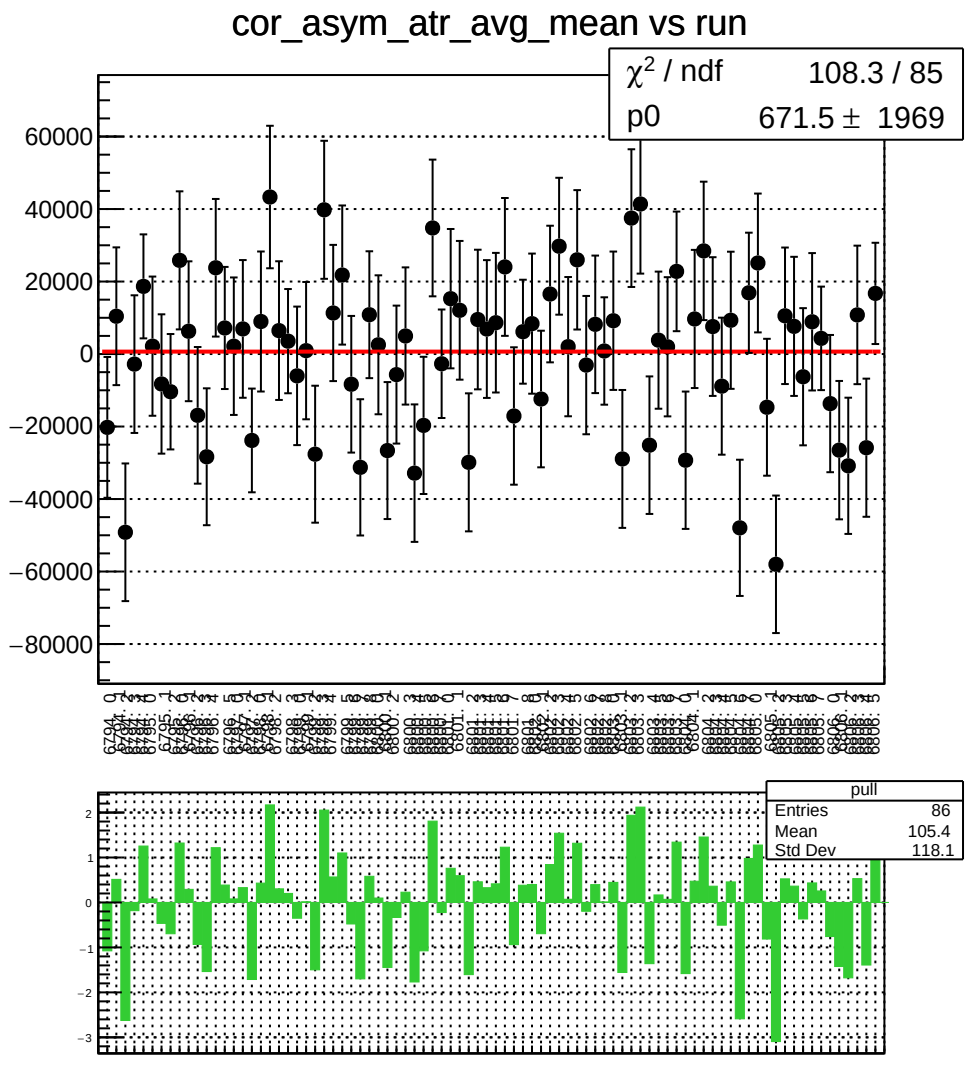

pull1D
Entries 86
Mean −0.006168
Std Dev 1.122

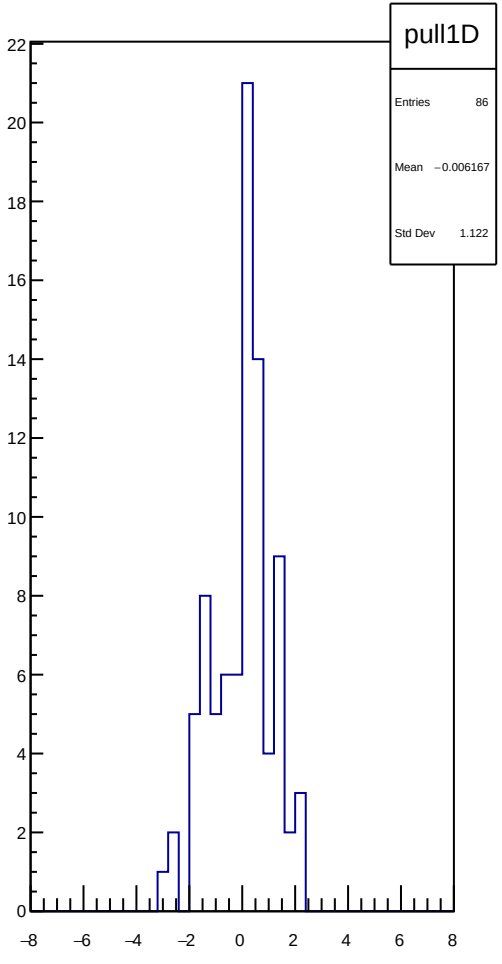

reg_asym_atr_avg_rms vs run
χ^2 / ndf 105.6 / 85
p0 1806 ± 1.392
1880
1860
1840
1820
1800
1780
1760

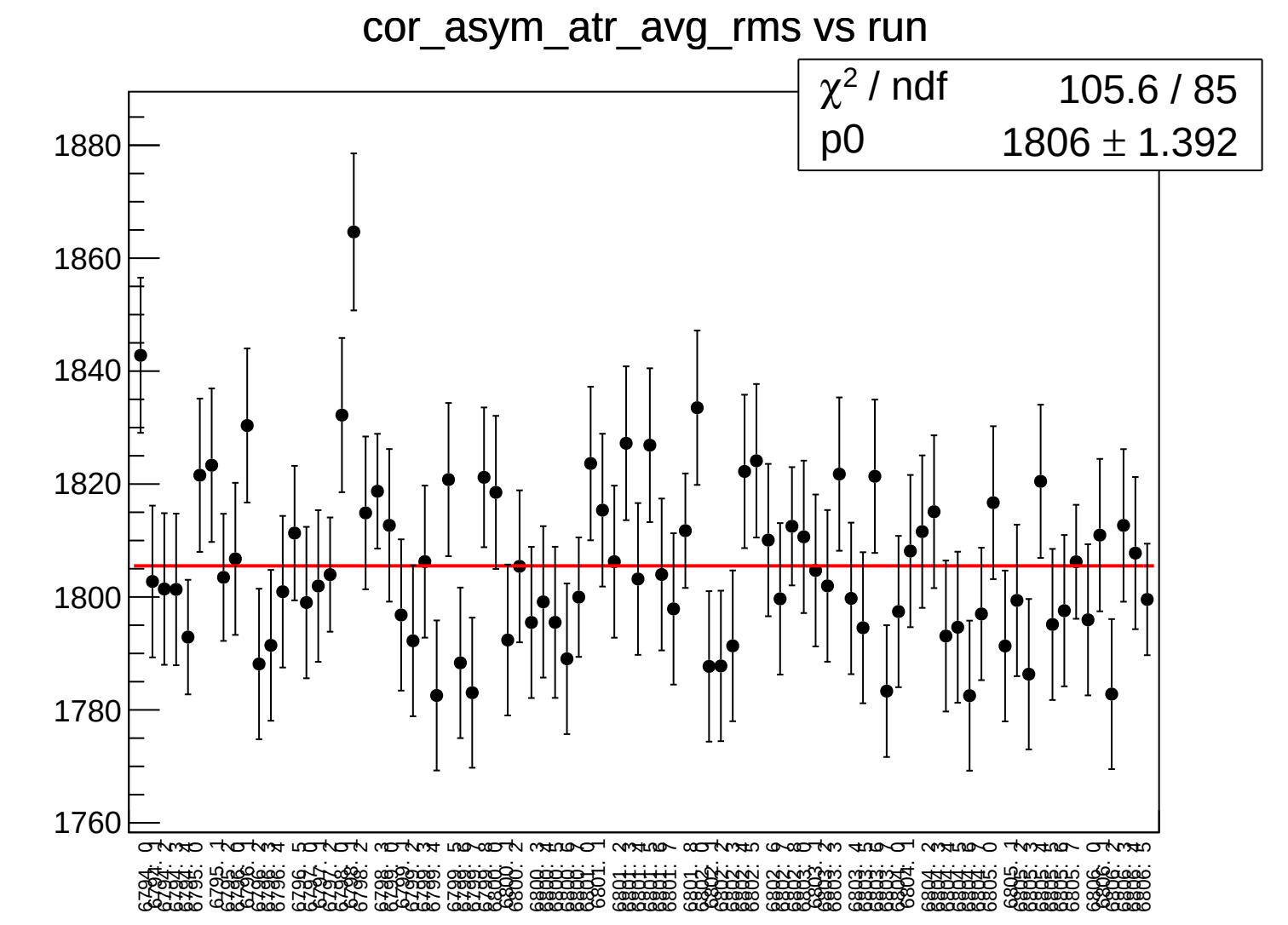

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.21 / 85
p0 −3120 ± 3853
100
50
0
−50
−100
−150
pull
Entries 86
Mean −89.79
Std Dev 0
3
2
1
0
−1
−2
−3

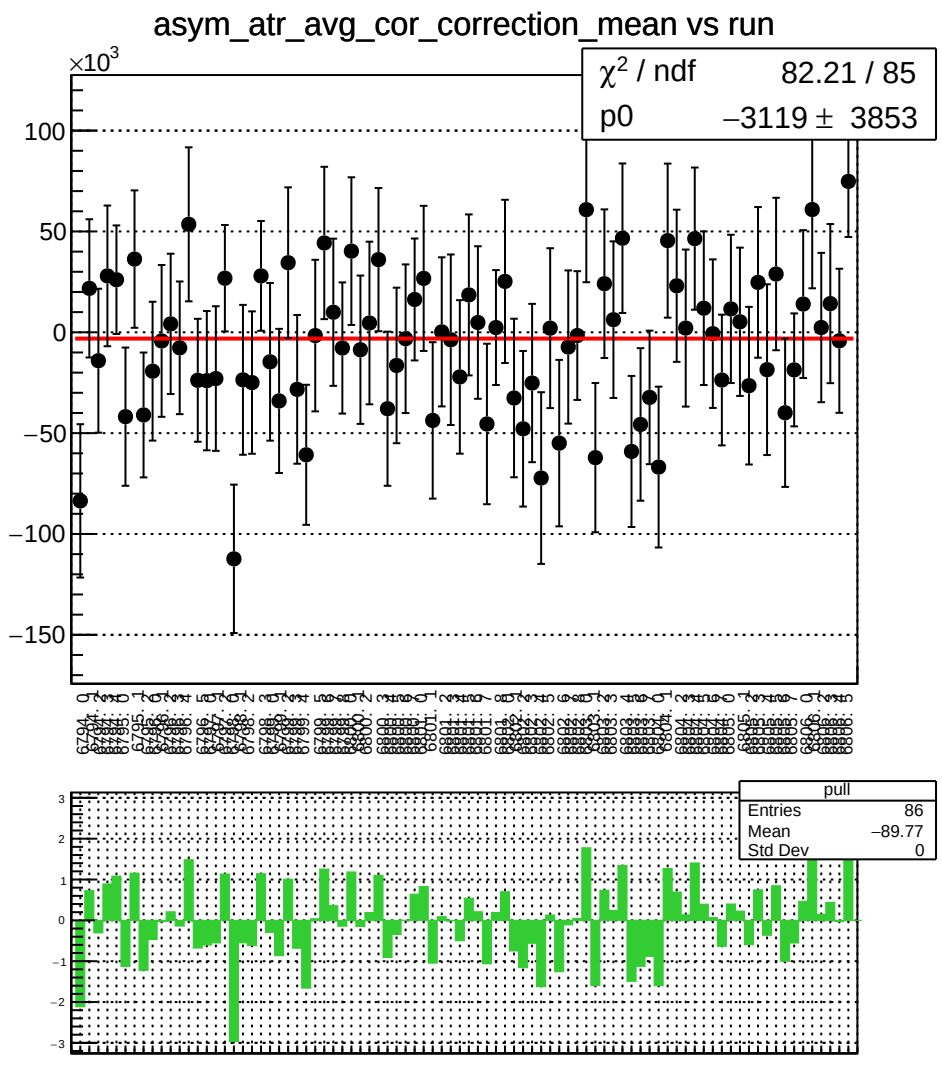

pull1D
Entries 86
Mean −0.02599
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

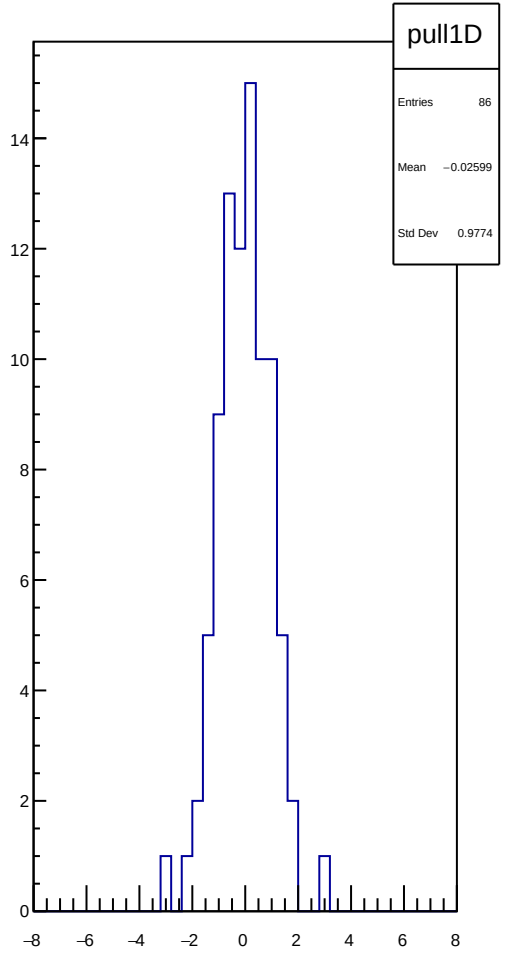

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 4307 / 85
p0 3529 ± 2.724
4000
3800
3600
3400
3200
3000

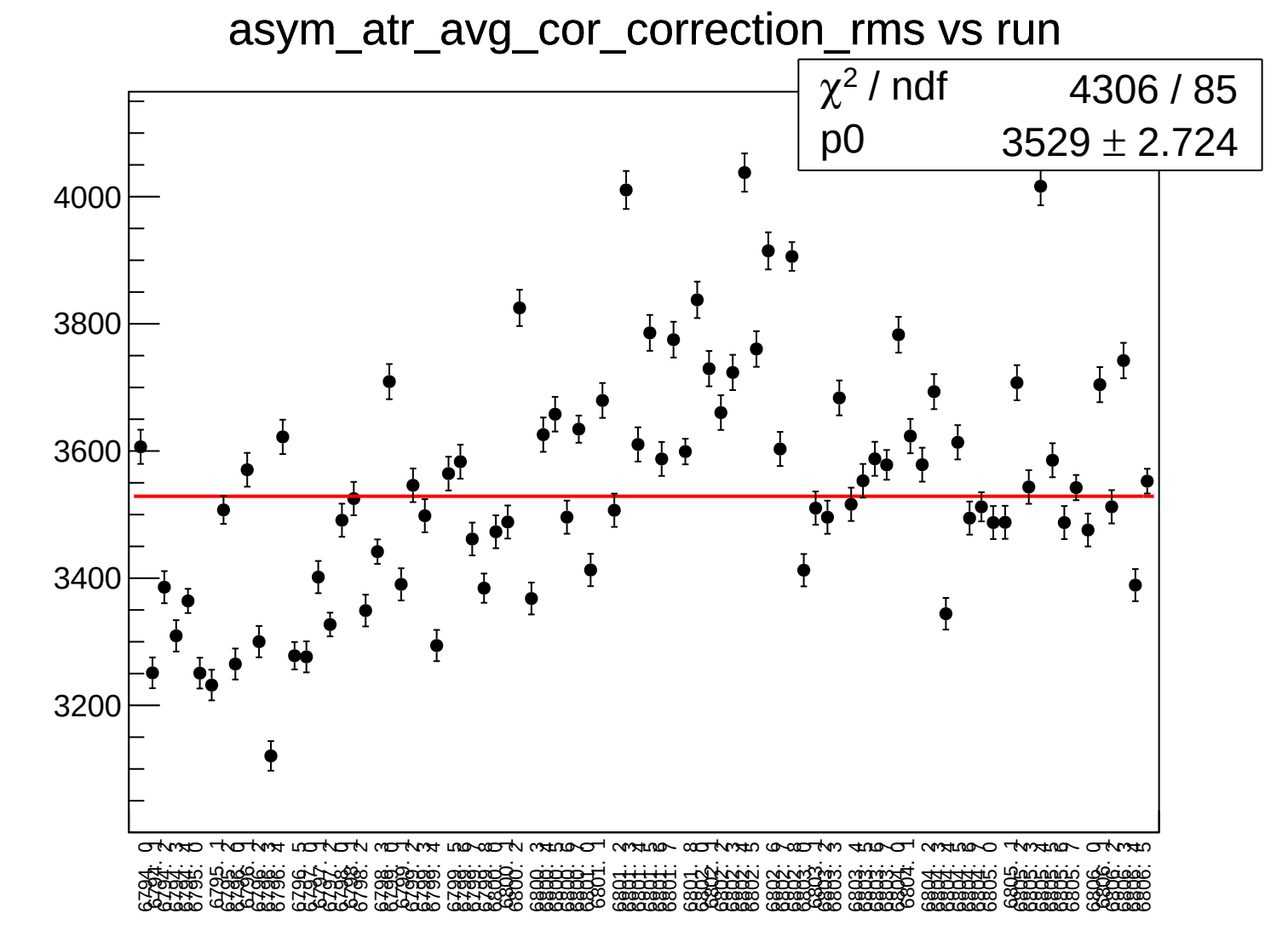

cor_asym_atr_avg_mean vs run
χ² / ndf 108.3 / 85
p0 671.5 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 105.4
Std Dev 118.1
2
1
0
−1
−2
−3

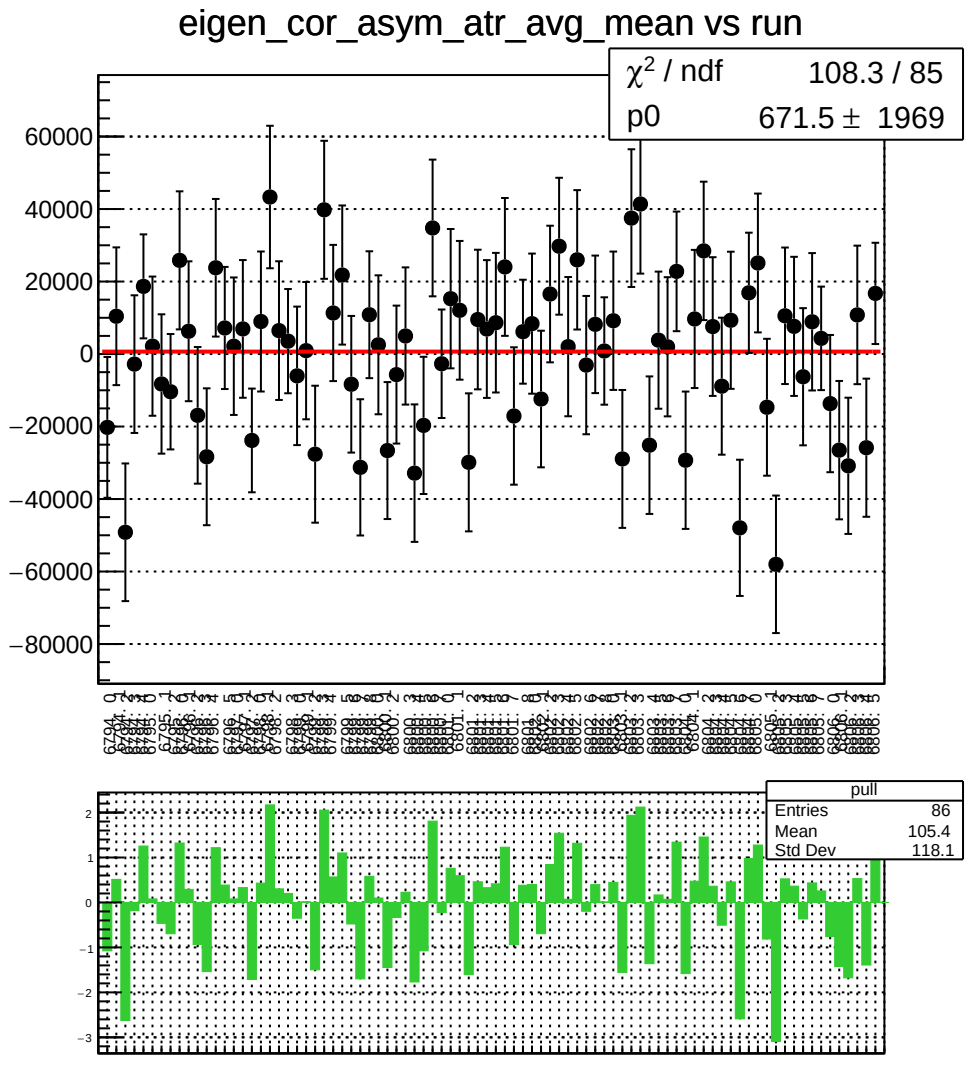

pull1D
Entries 86
Mean −0.006167
Std Dev 1.122
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

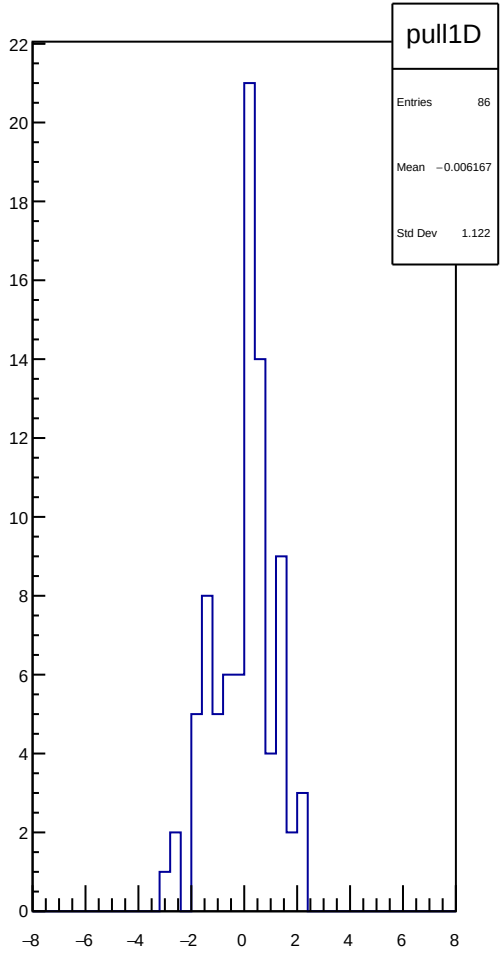

cor_asym_atr_avg_rms vs run
χ^2 / ndf 105.6 / 85
p0 1806 ± 1.392
1880
1860
1840
1820
1800
1780
1760

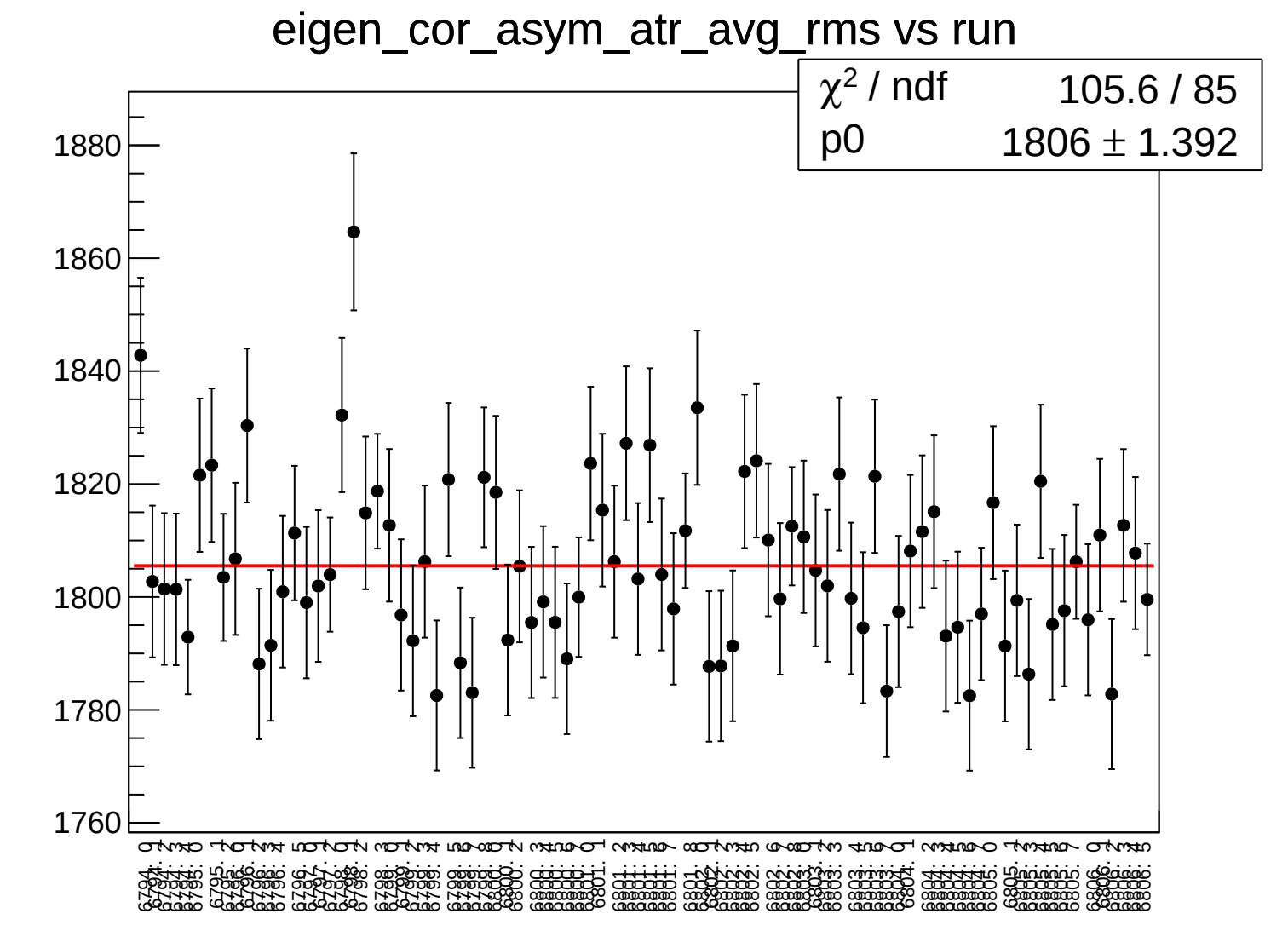

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.21 / 85
p0 −3119 ± 3853
100
50
0
−50
−100
−150
pull
Entries 86
Mean −89.77
Std Dev 0
3
2
1
0
−1
−2
−3

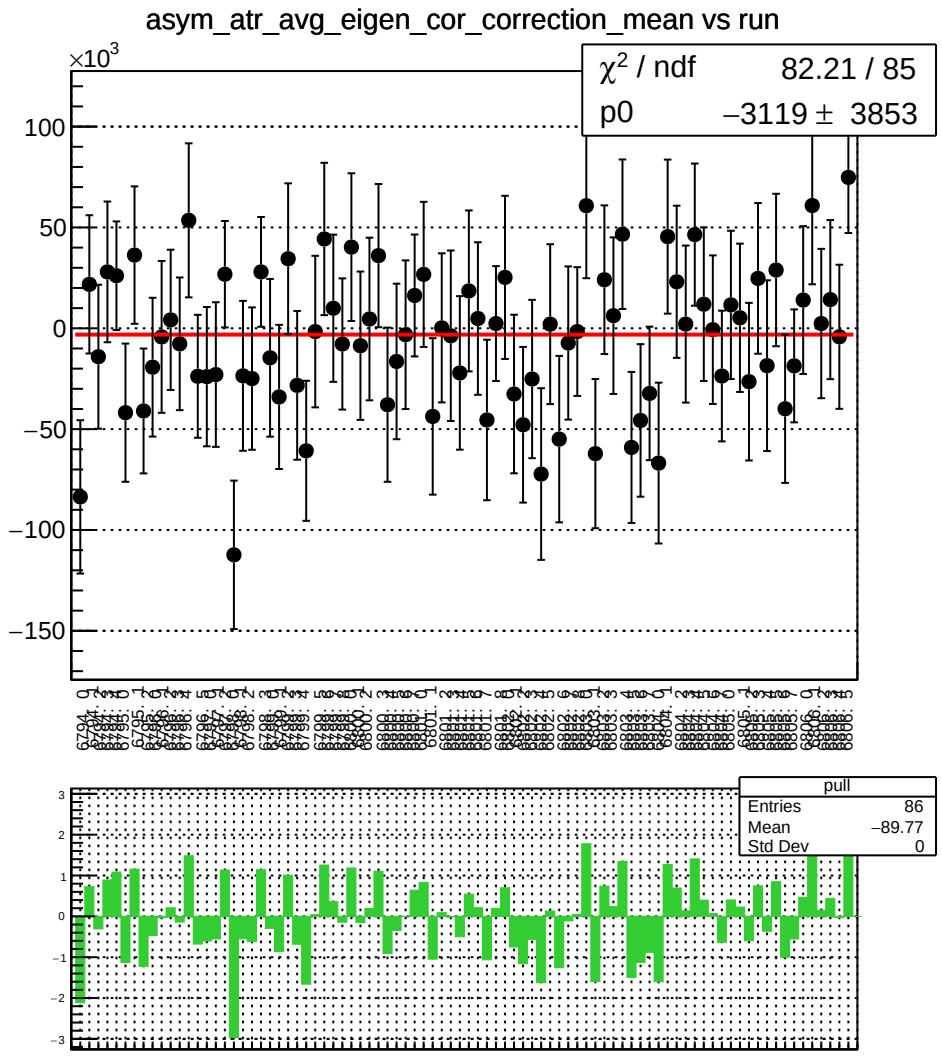

pull1D
Entries 86
Mean −0.02599
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

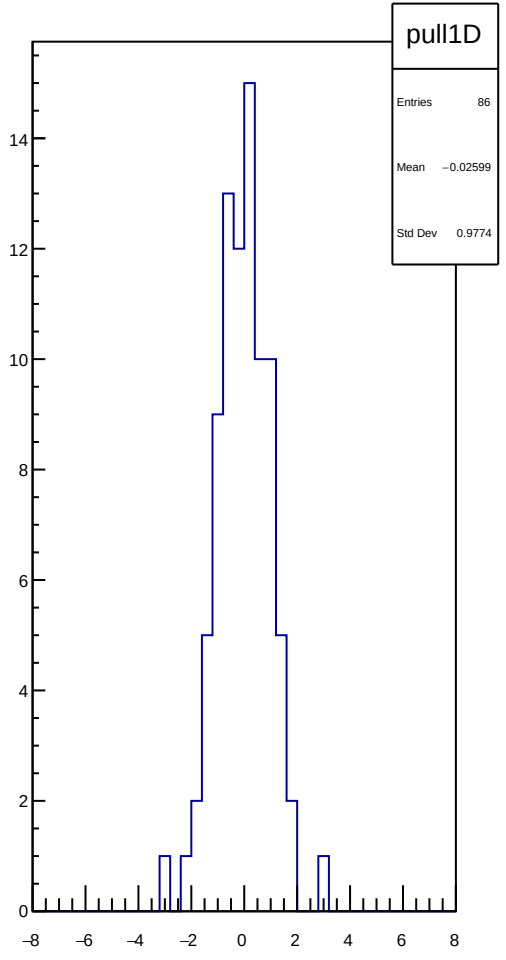

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 4306 / 85
p0 3529 ± 2.724
4000
3800
3600
3400
3200

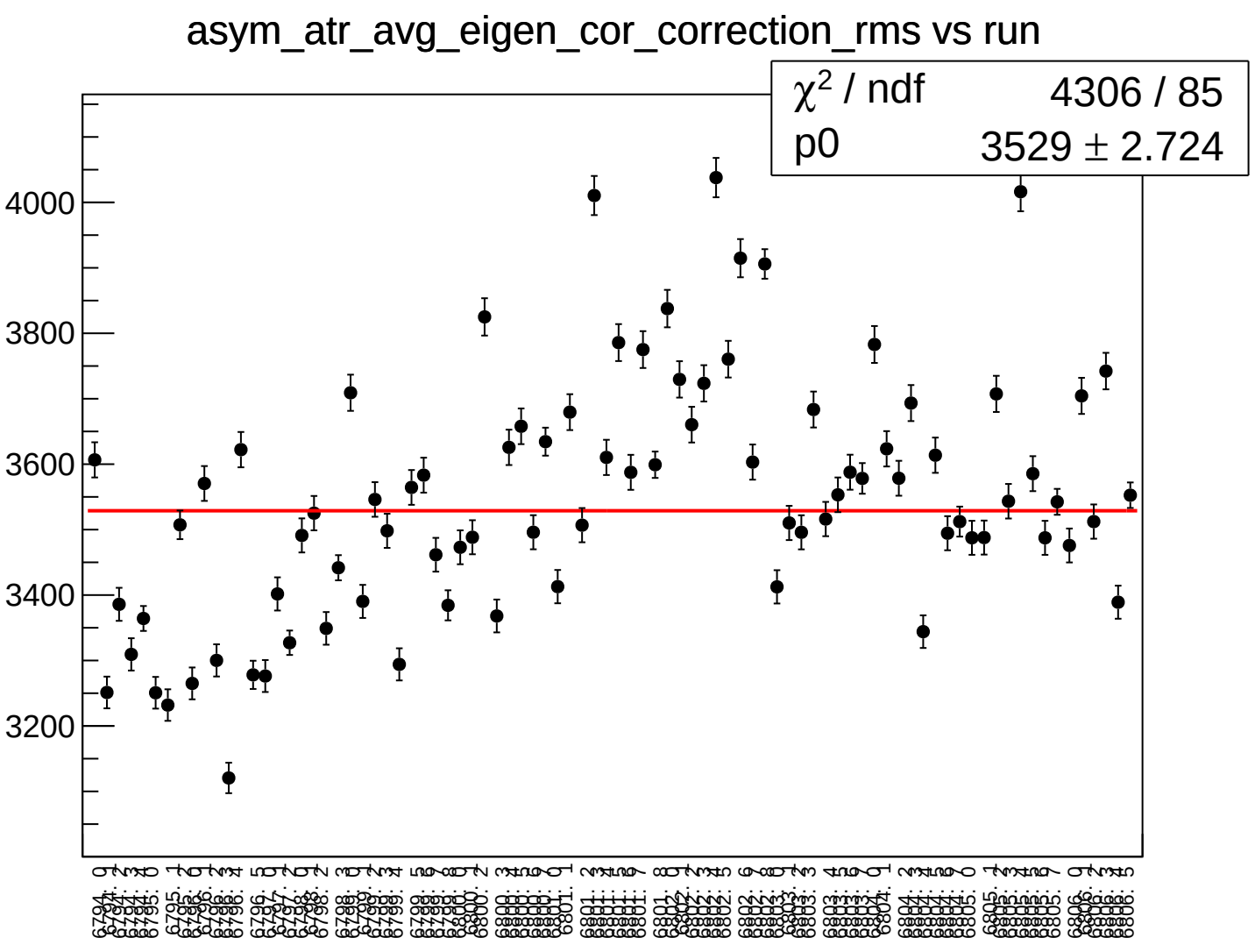

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 108.3 / 85
p0 671.5 ± 1969
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 105.4
Std Dev 118.1
2
1
0
−1
−2
−3

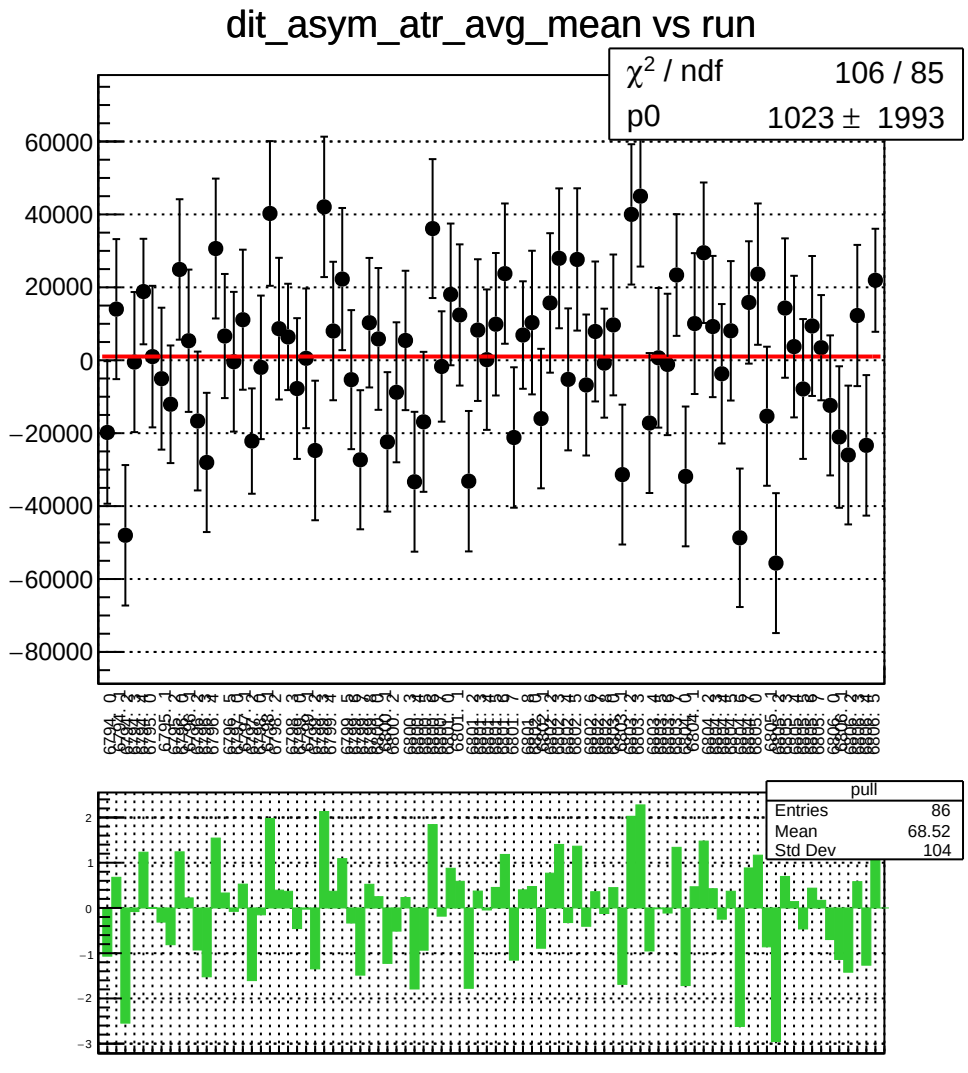

pull1D
Entries 86
Mean −0.006167
Std Dev 1.122
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

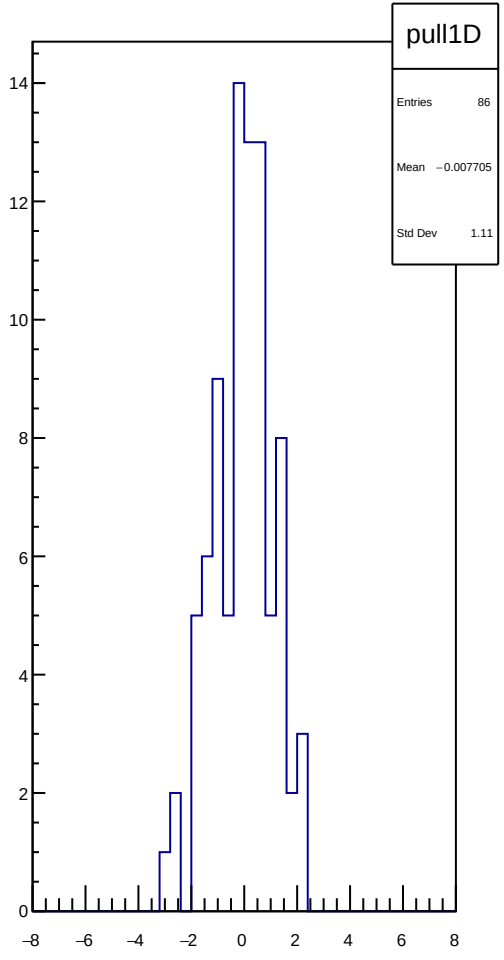

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 105.6 / 85
p0 1806 ± 1.392
1880
1860
1840
1820
1800
1780
1760

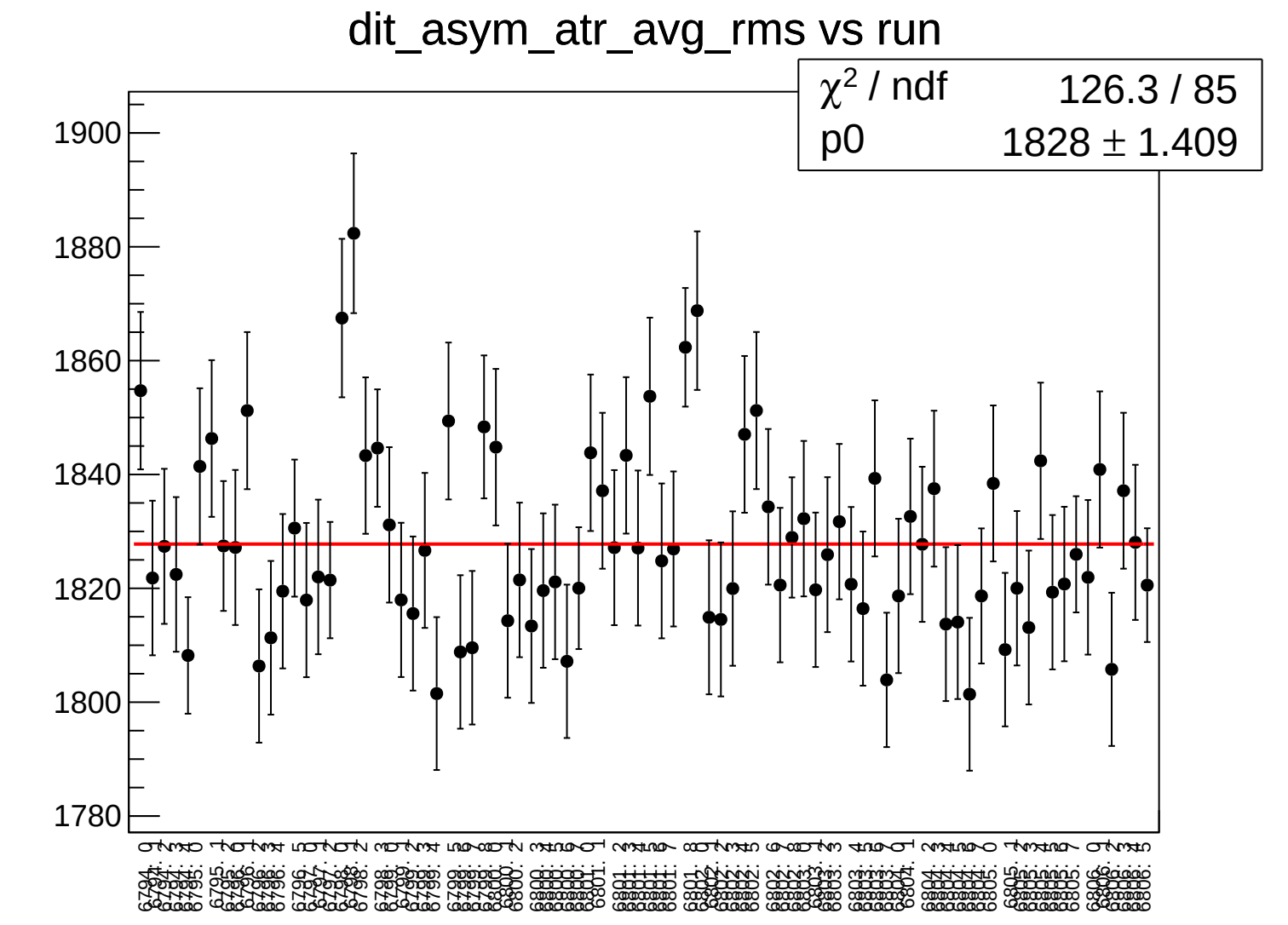

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.21 / 85
p0 −3119 ± 3853
100
50
0
−50
−100
−150
pull
Entries 86
Mean −89.77
Std Dev 0
3
2
1
0
−1
−2
−3

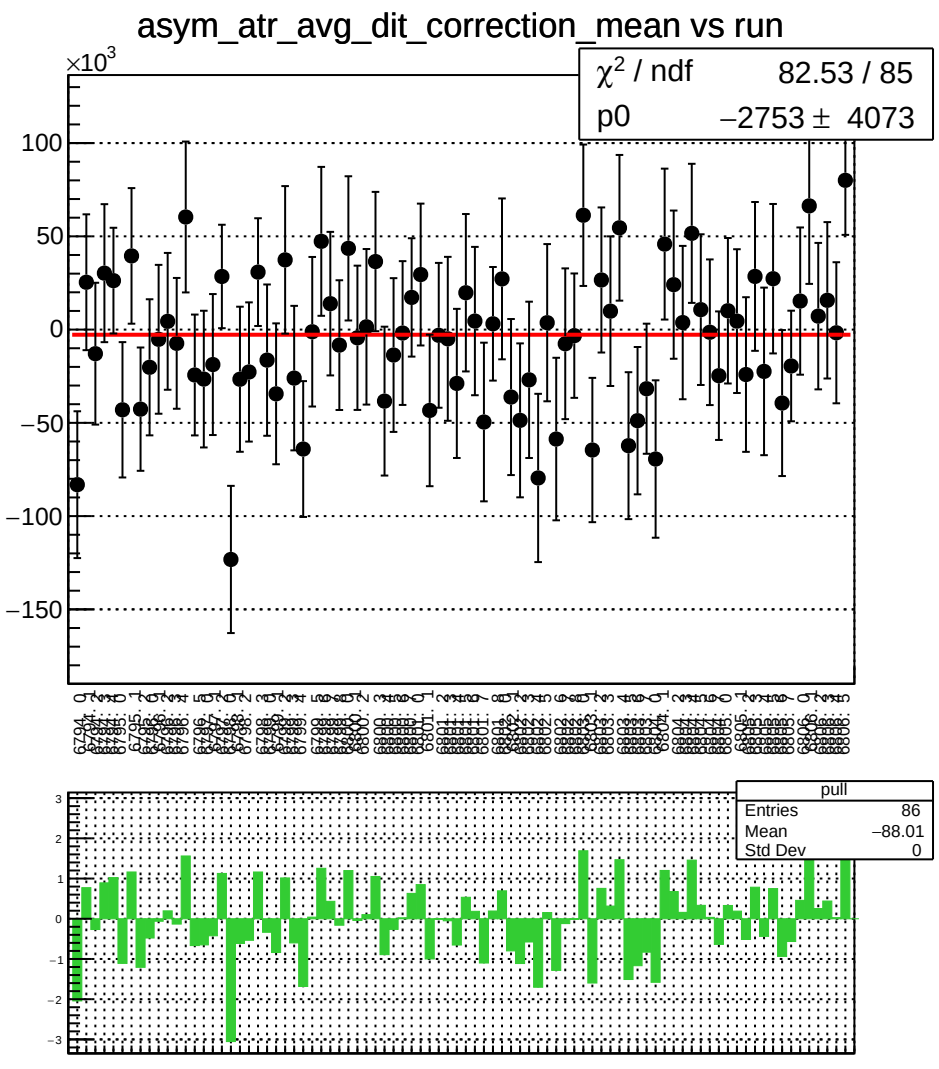

pull1D
Entries 86
Mean −0.02599
Std Dev 0.9774
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

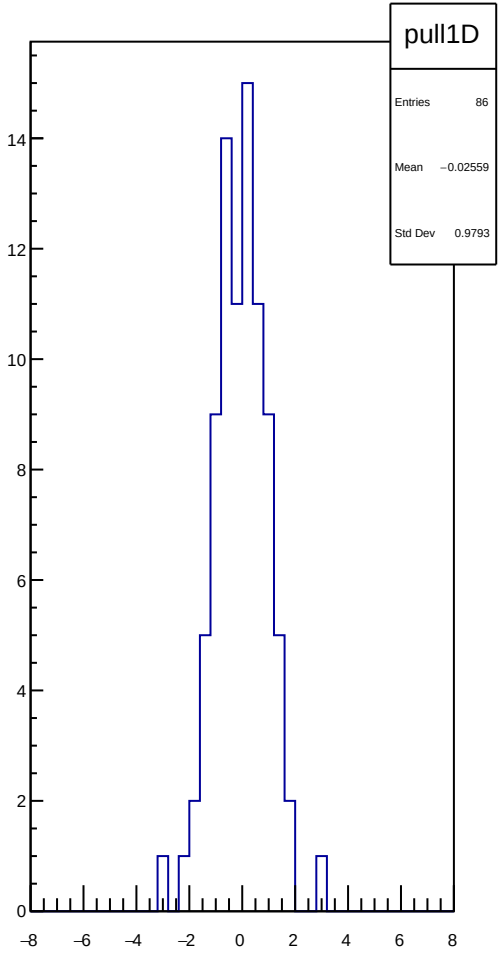

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 4306 / 85
p0 3529 ± 2.724
4000
3800
3600
3400
3200

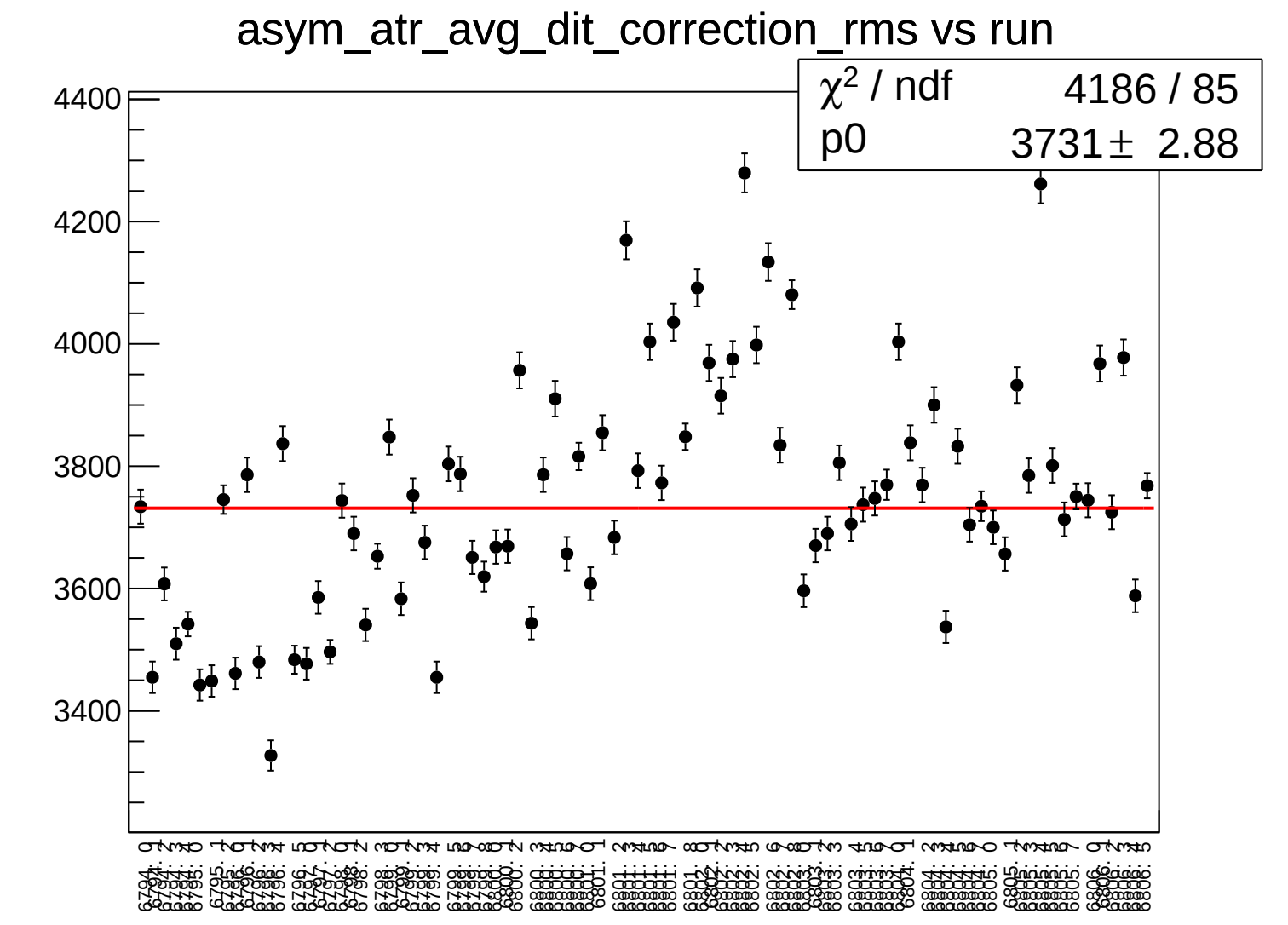

dit_asym_atr_avg_mean vs run
χ² / ndf 106 / 85
p0 1023 ± 1993
pull
Entries 86
Mean 68.52
Std Dev 104

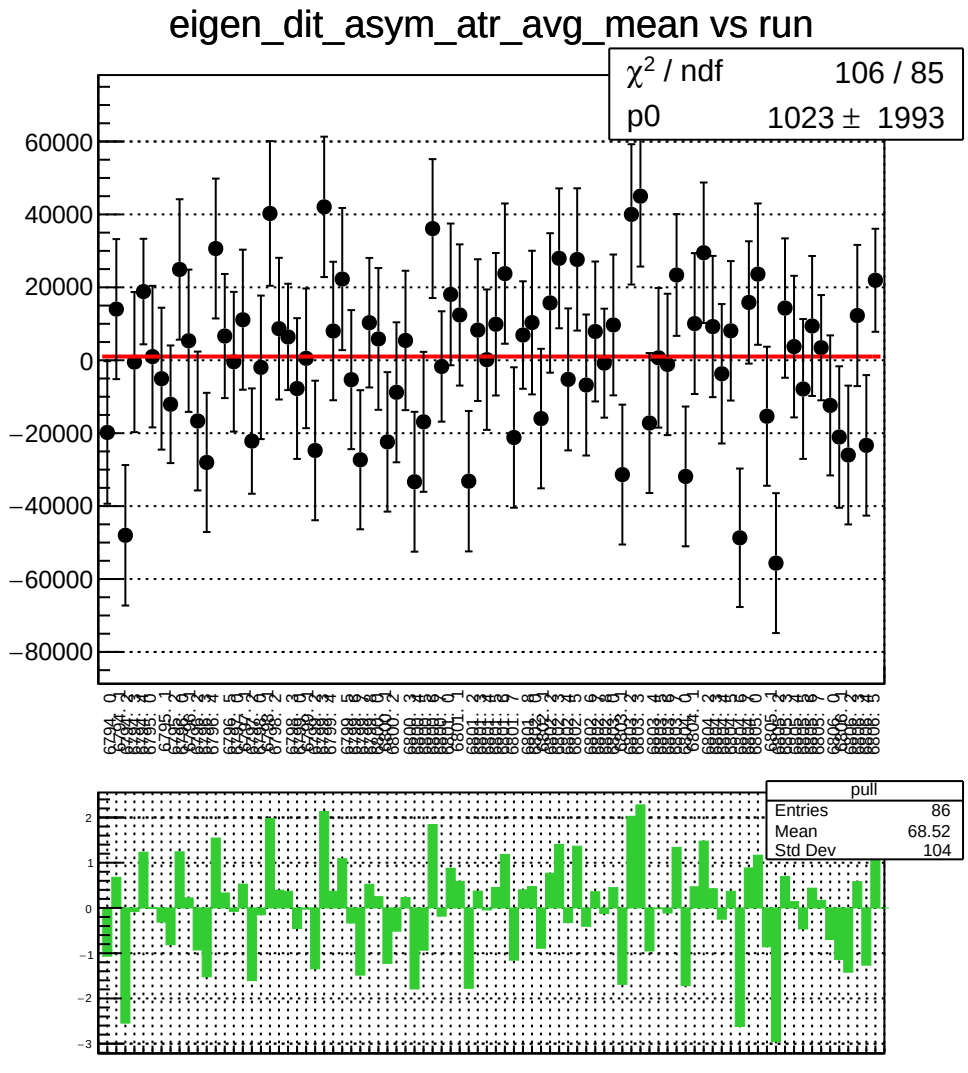

pull1D
Entries 86
Mean −0.007705
Std Dev 1.11

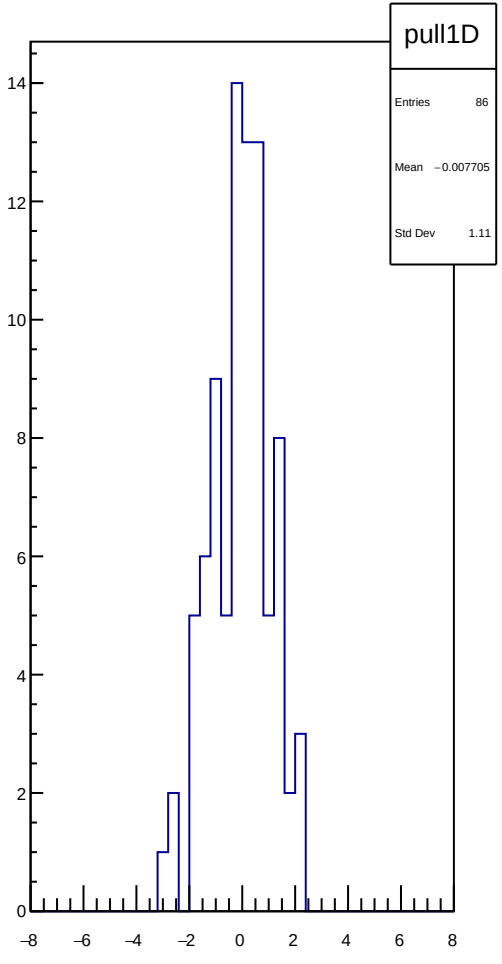

dit_asym_atr_avg_rms vs run
χ² / ndf 126.3 / 85
p0 1828 ± 1.409
1900
1880
1860
1840
1820
1800
1780

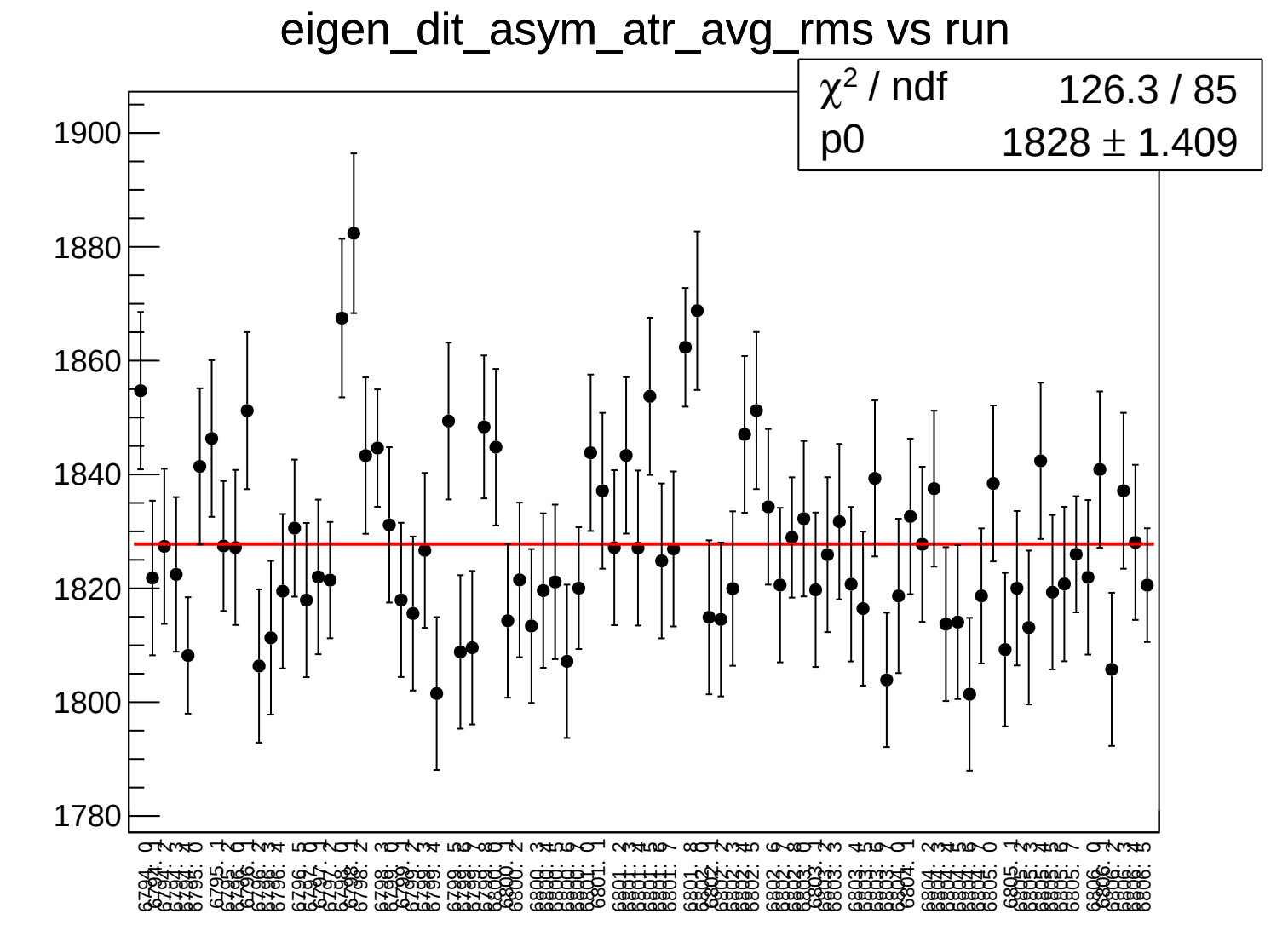

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.53 / 85
p0 −2753 ± 4073
100
50
0
−50
−100
−150
pull
Entries 86
Mean −88.01
Std Dev 0
3
2
1
0
−1
−2
−3

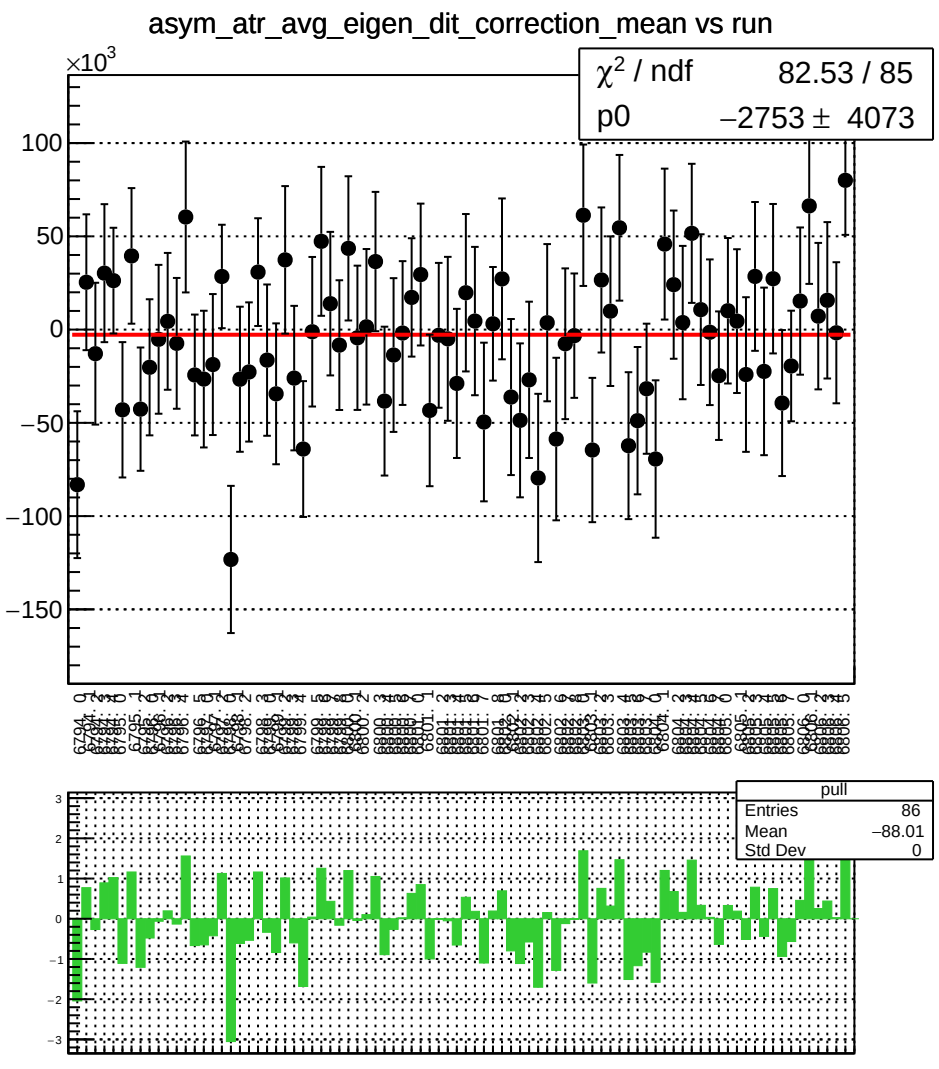

pull1D
Entries 86
Mean −0.02559
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

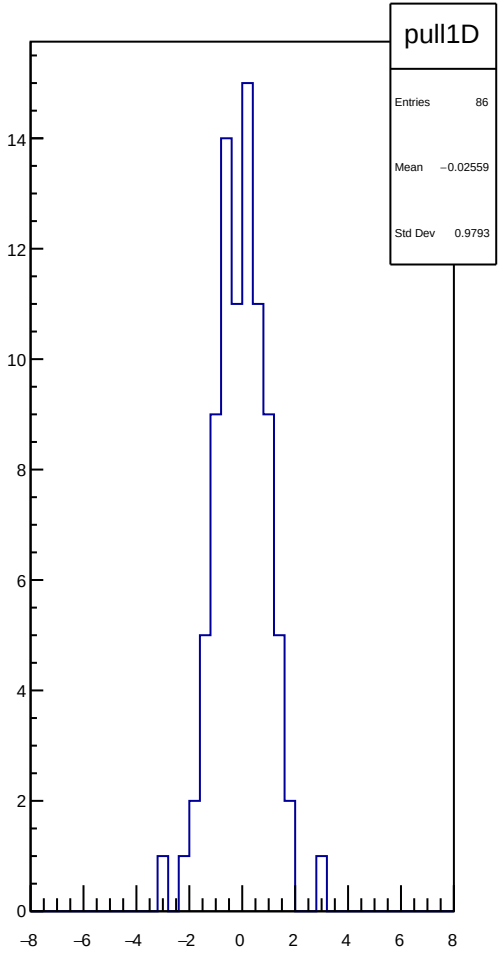

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 4186 / 85
p0 3731 ± 2.88
4400
4200
4000
3800
3600
3400

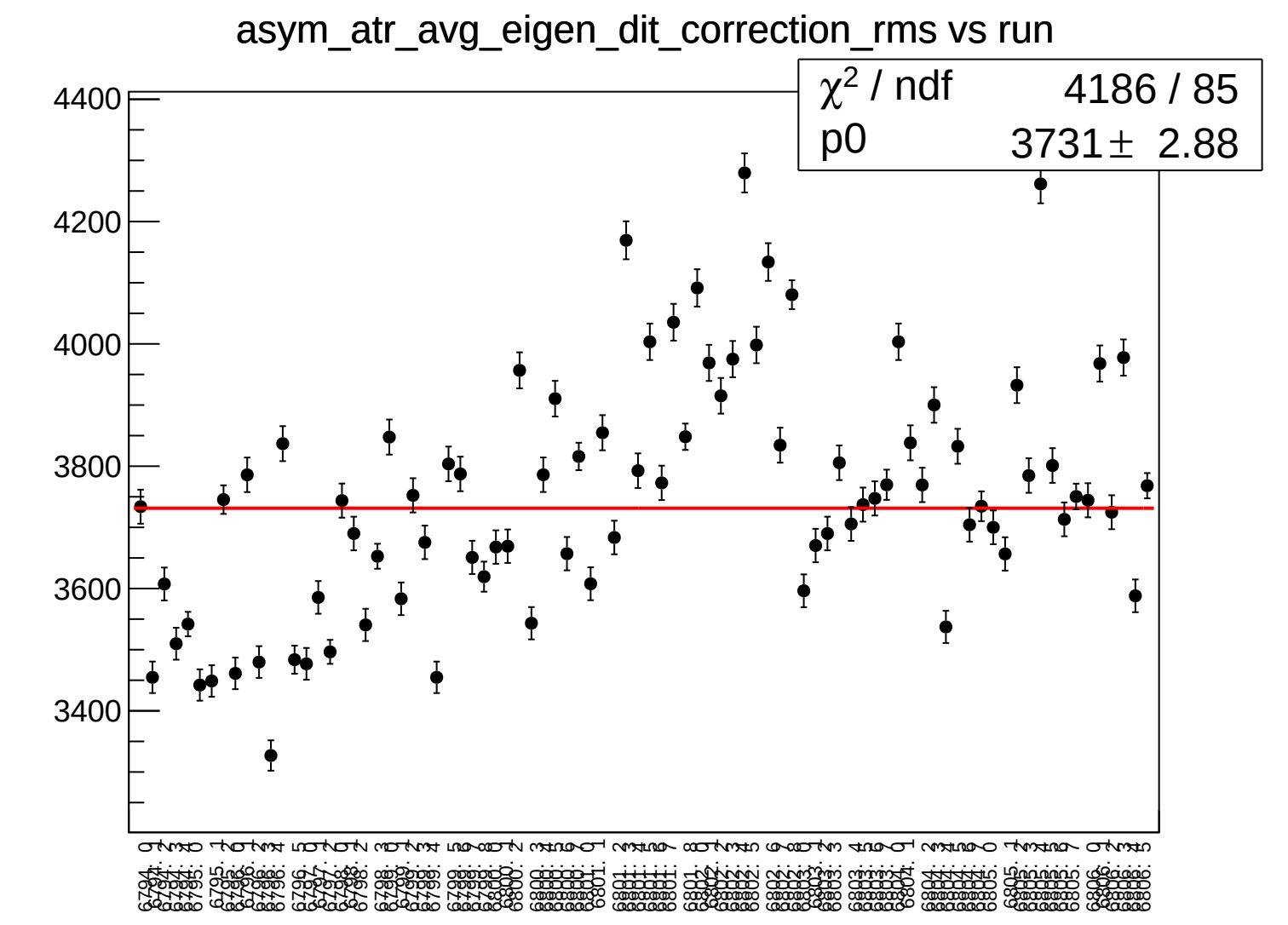

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 106 / 85
p0 1023 ± 1993
pull
Entries 86
Mean 68.52
Std Dev 104

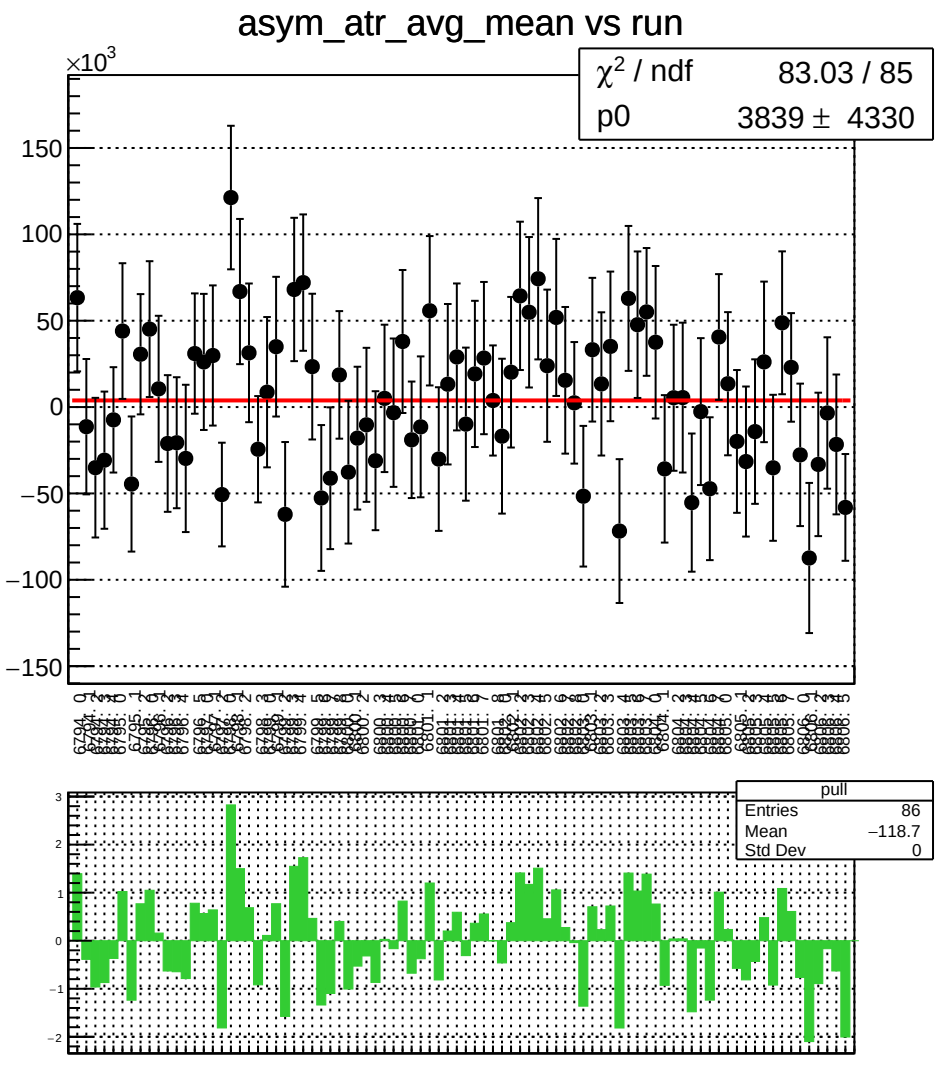

pull1D
Entries 86
Mean −0.007705
Std Dev 1.11

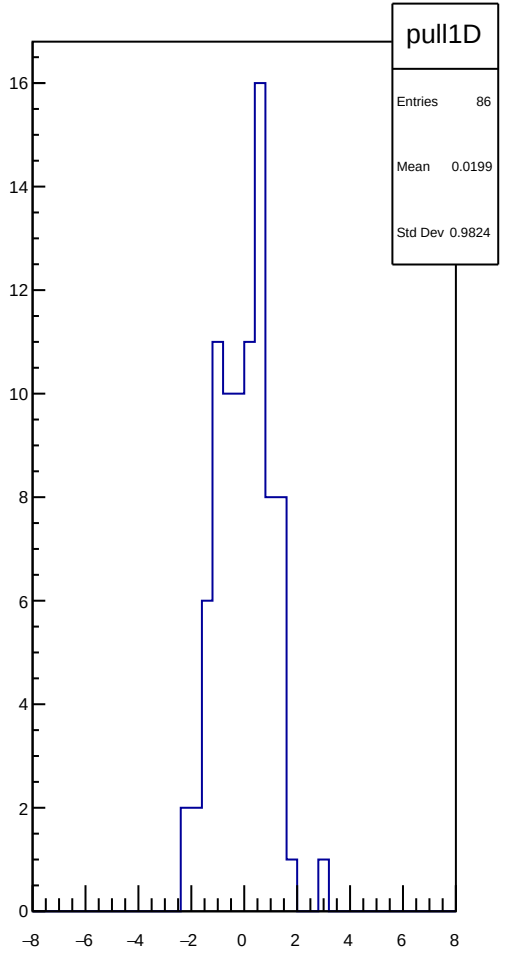

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 126.3 / 85
p0 1828 ± 1.409
1900
1880
1860
1840
1820
1800
1780

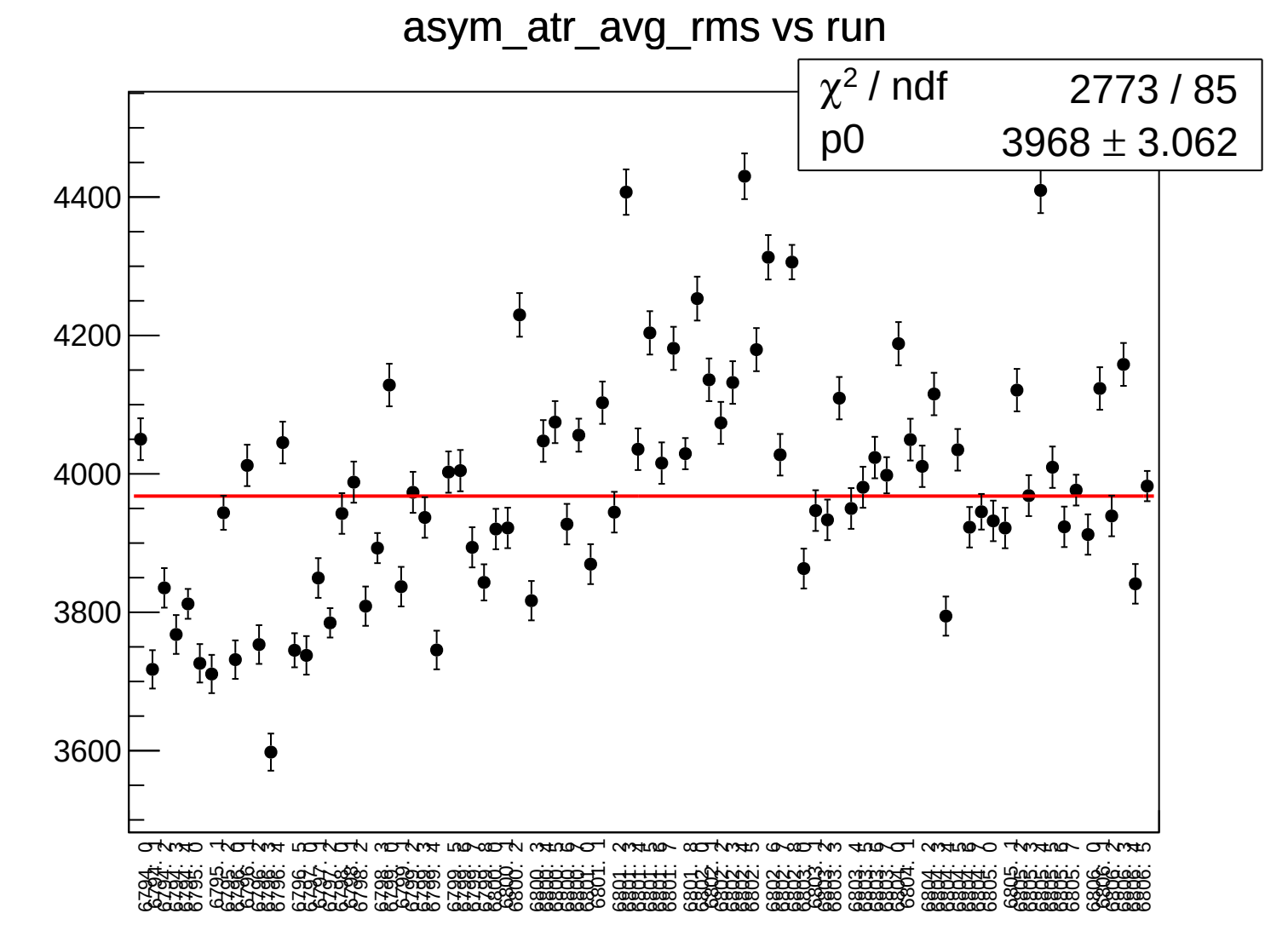

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.53 / 85
p0 −2753 ± 4073
100
50
0
−50
−100
−150
pull
Entries 86
Mean −88.01
Std Dev 0
3
2
1
0
−1
−2
−3

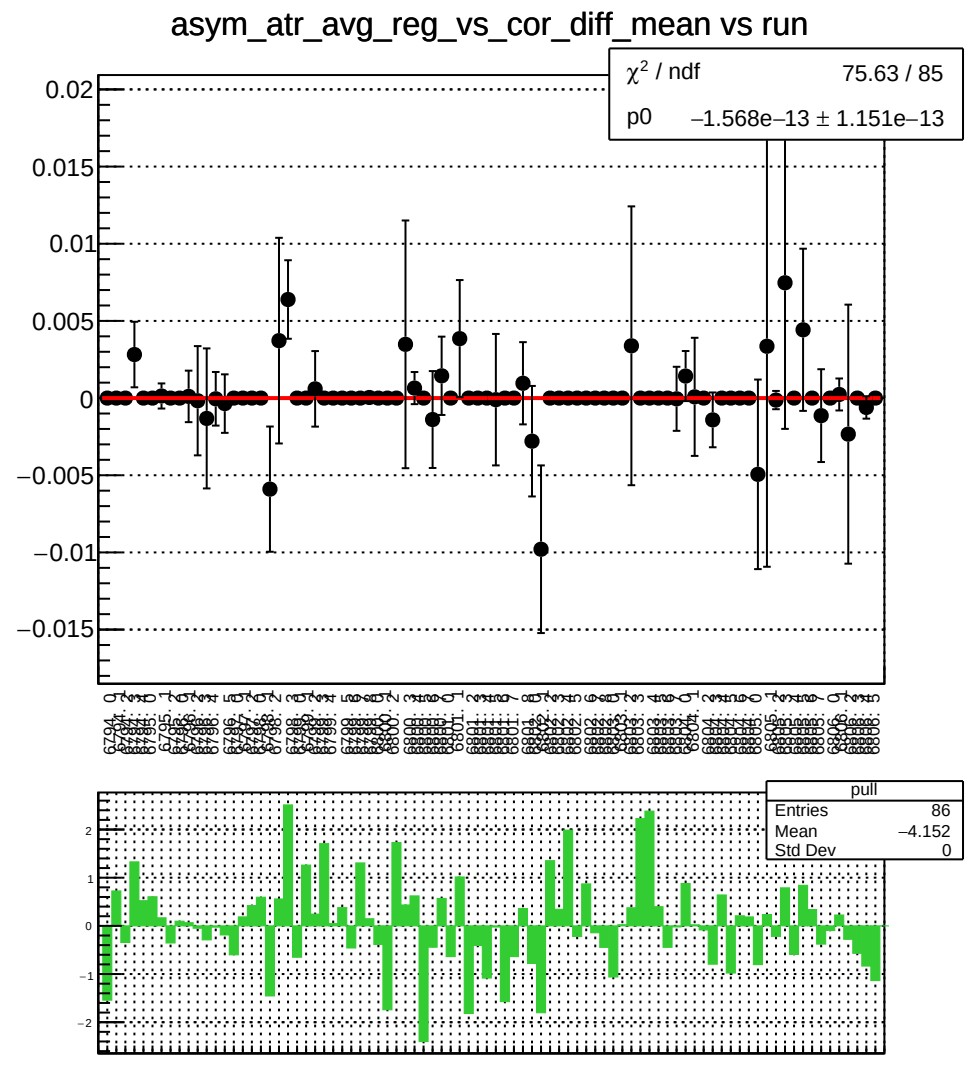

pull1D
Entries 86
Mean −0.02559
Std Dev 0.9793
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

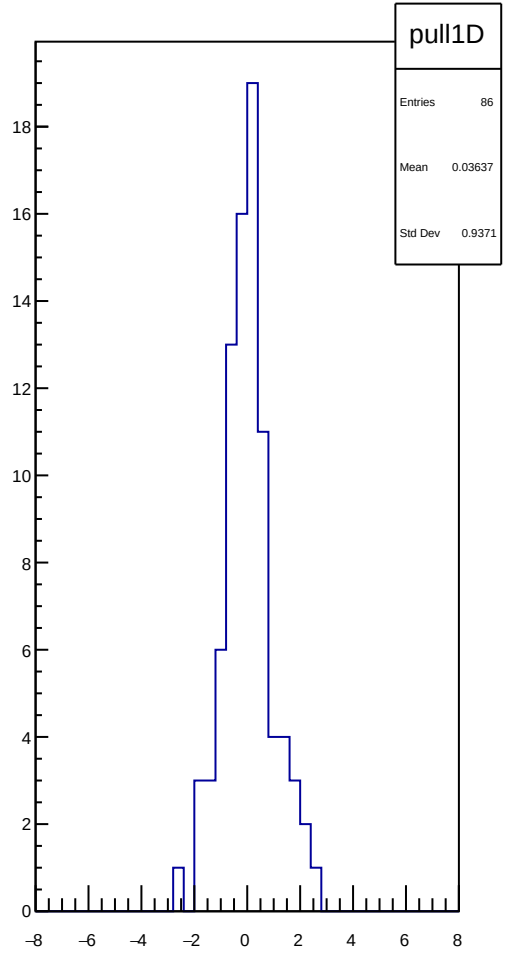

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 4186 / 85
p0 3731 ± 2.88
4400
4200
4000
3800
3600
3400

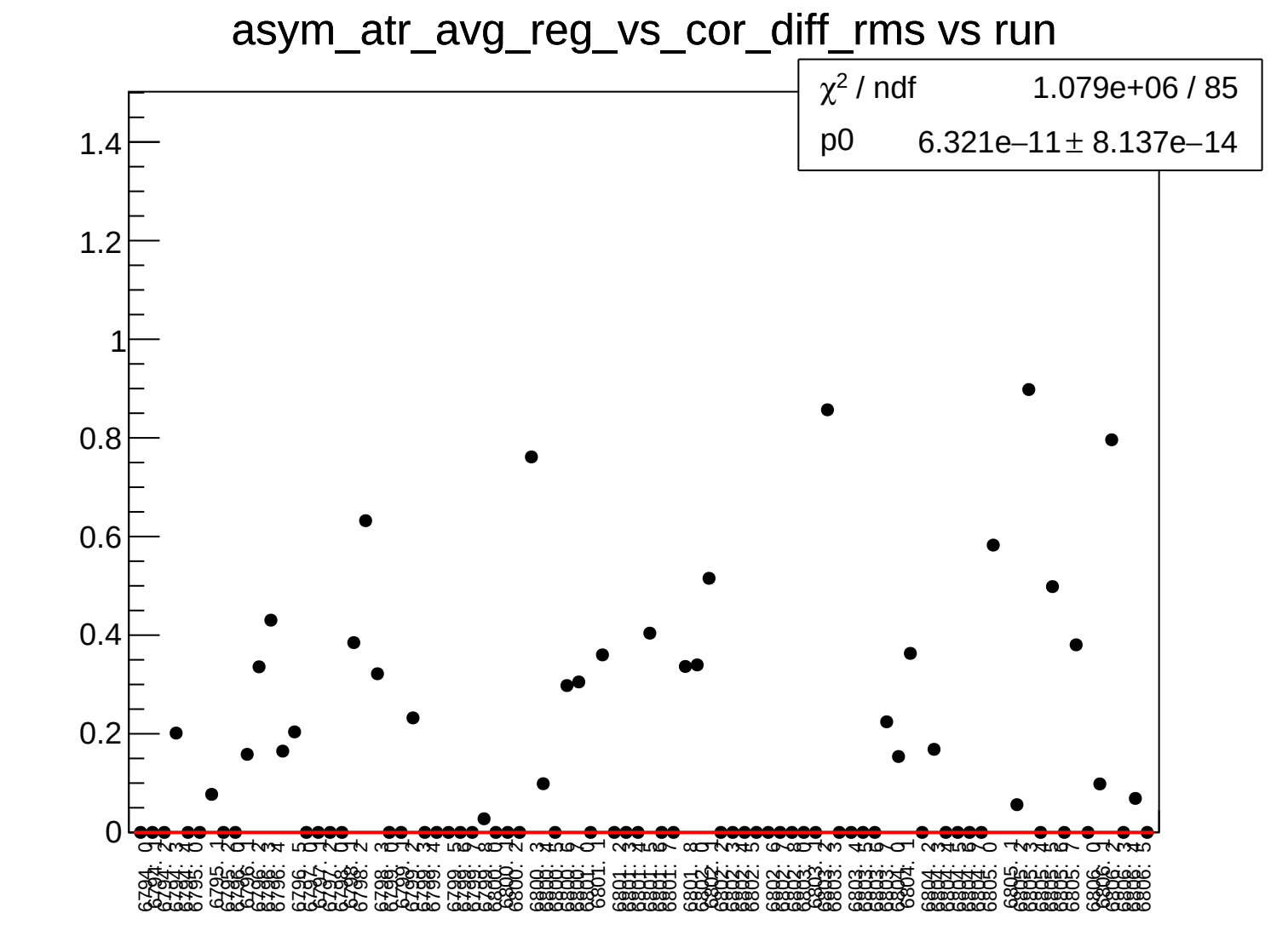

asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 83.03 / 85
p0 3839 ± 4330
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −118.7
Std Dev 0
3
2
1
0
−1
−2

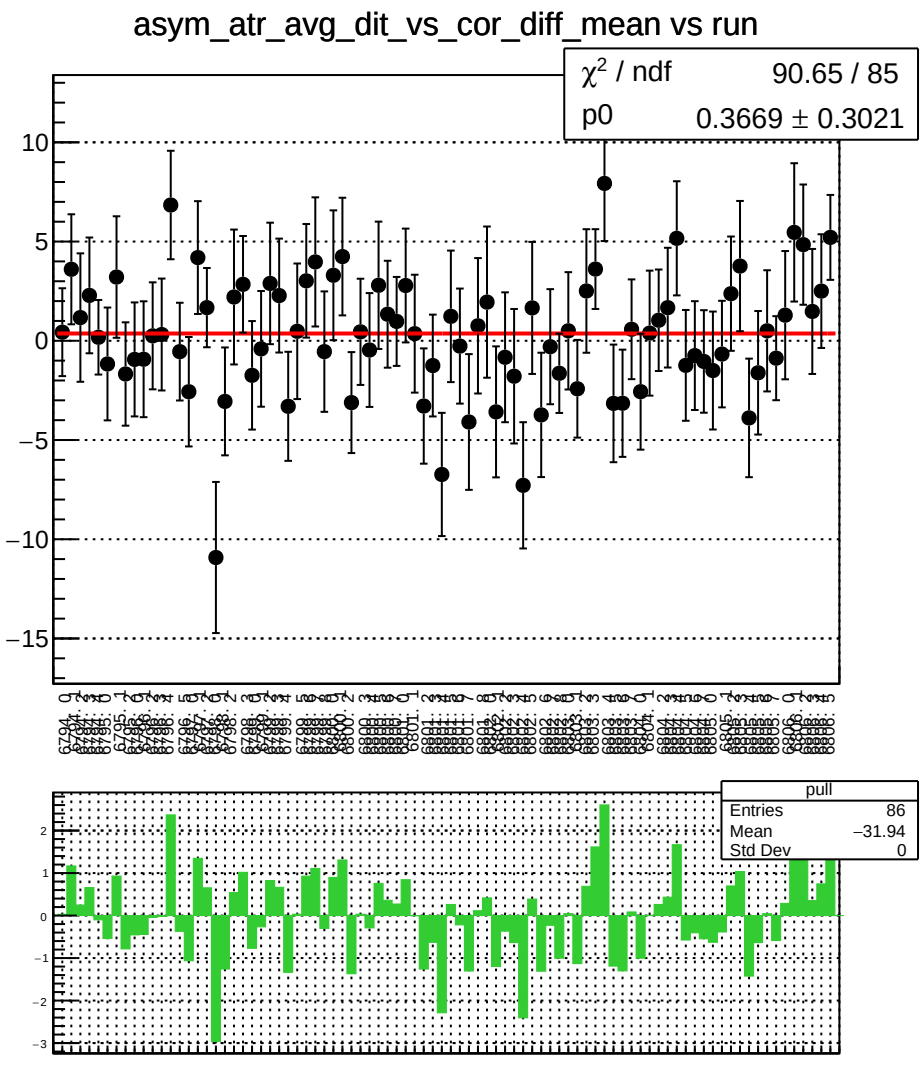

pull1D
Entries 86
Mean 0.0199
Std Dev 0.9824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

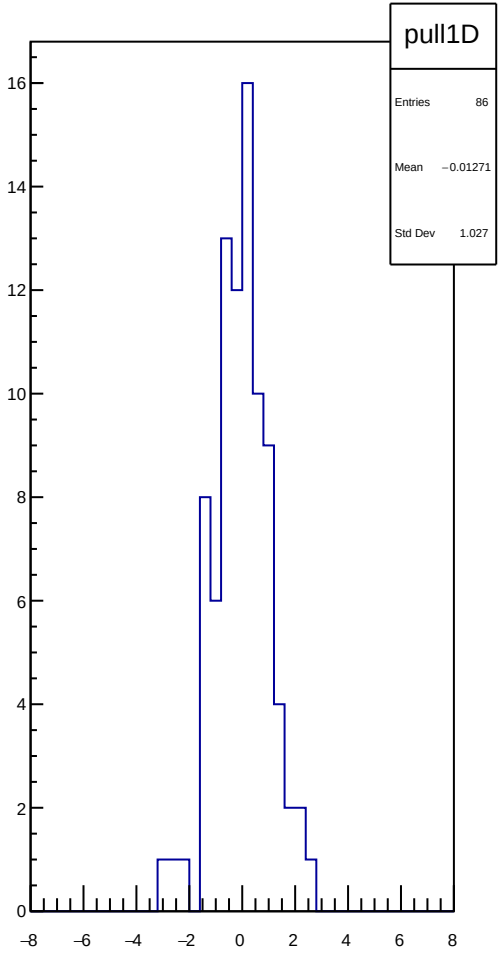

asym_atr_avg_rms vs run
χ² / ndf 2773 / 85
p0 3968 ± 3.062
4400
4200
4000
3800
3600

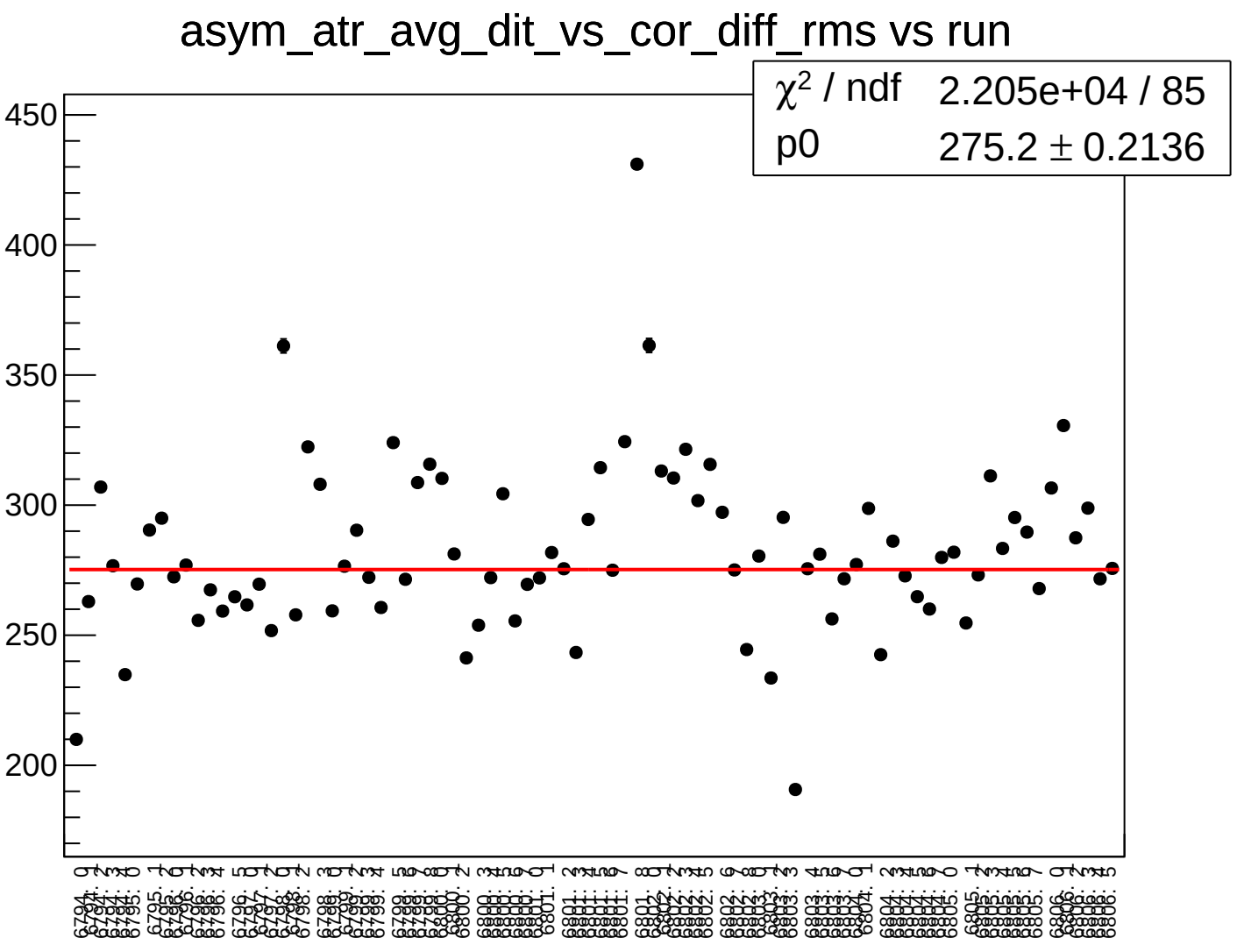

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.63 / 85
p0 −1.568e−13 ± 1.151e−13
pull
Entries 86
Mean −4.152
Std Dev 0

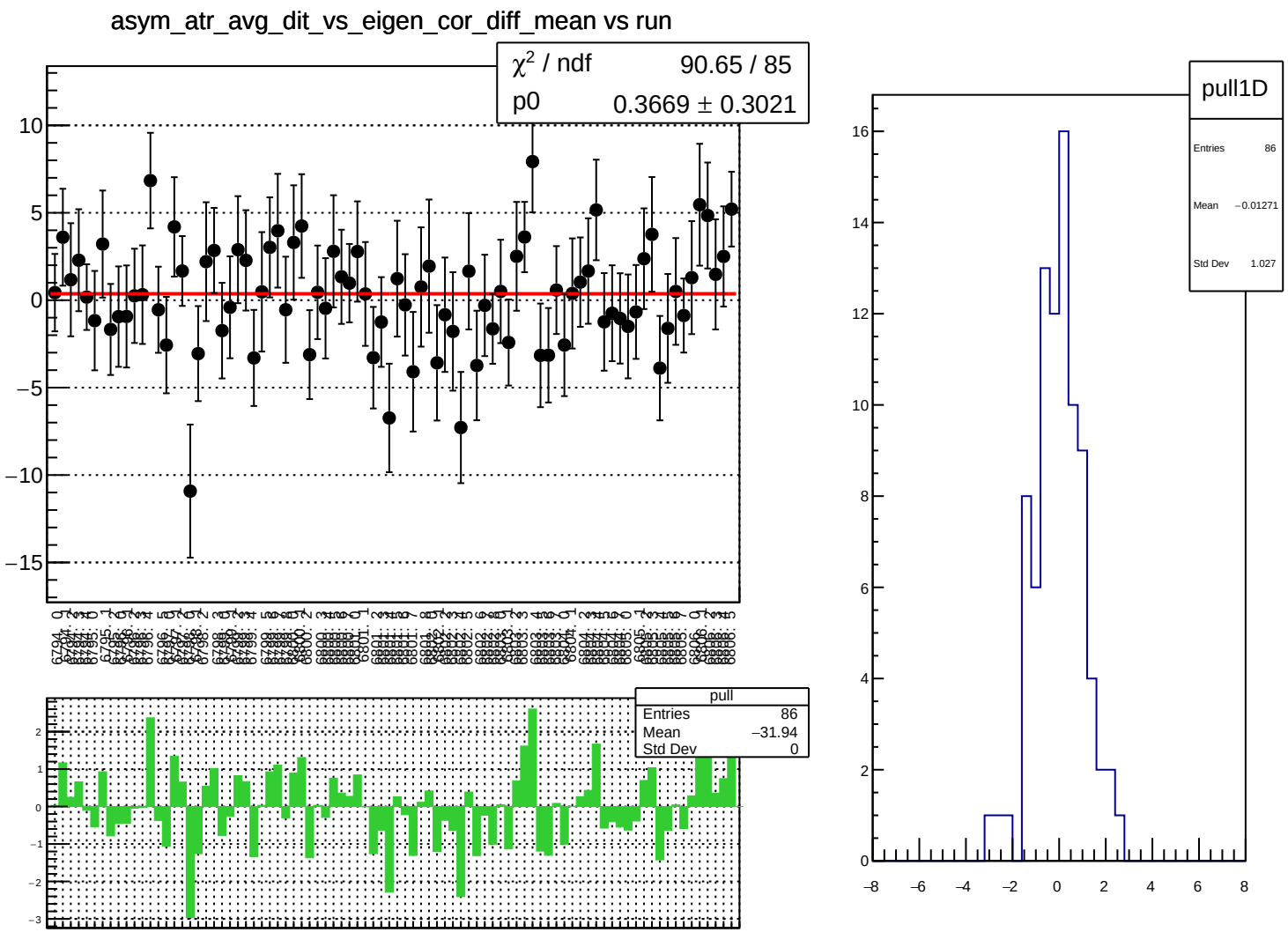

pull1D
Entries 86
Mean 0.03637
Std Dev 0.9371

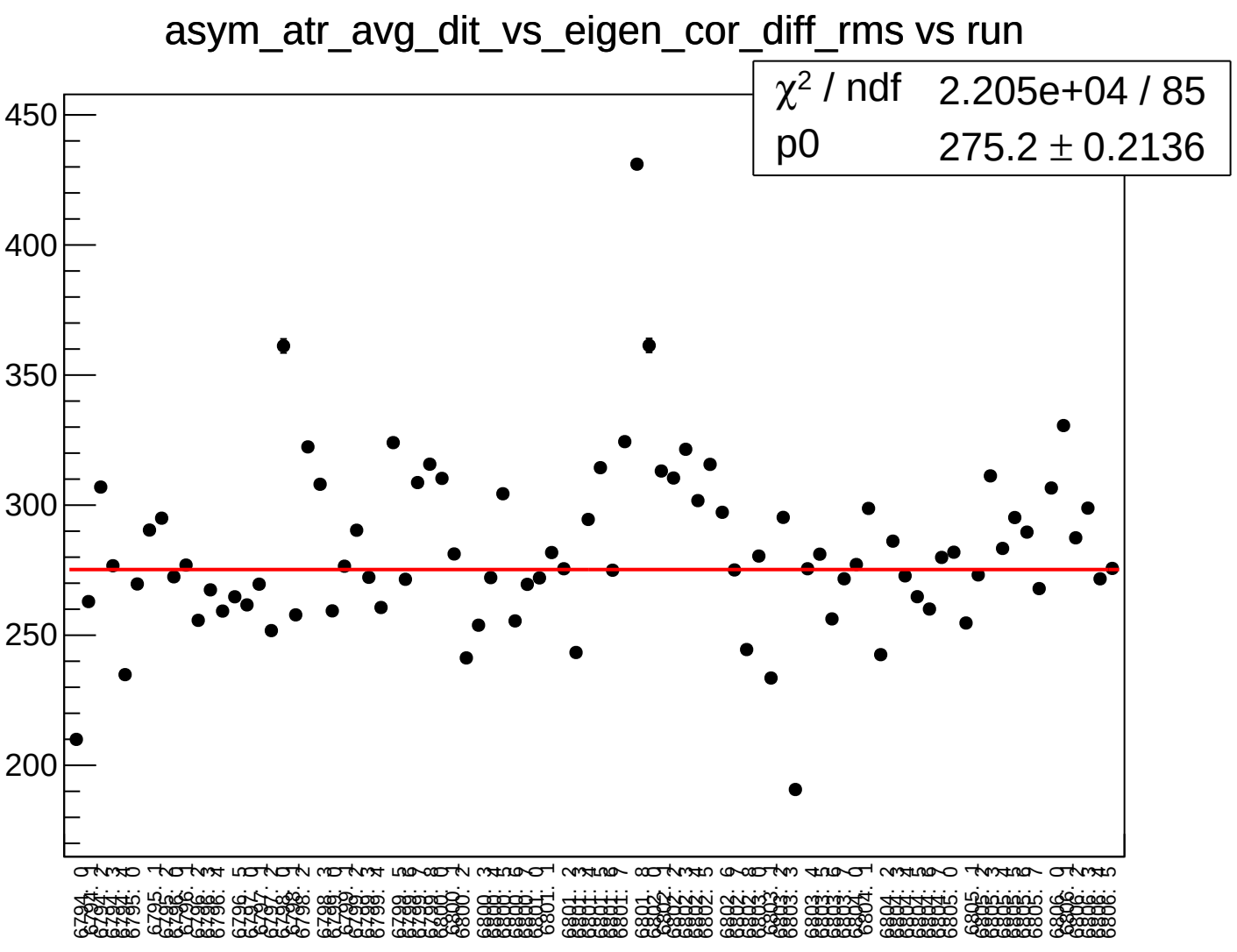

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.079e+06 / 85
p0 6.321e−11 ± 8.137e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

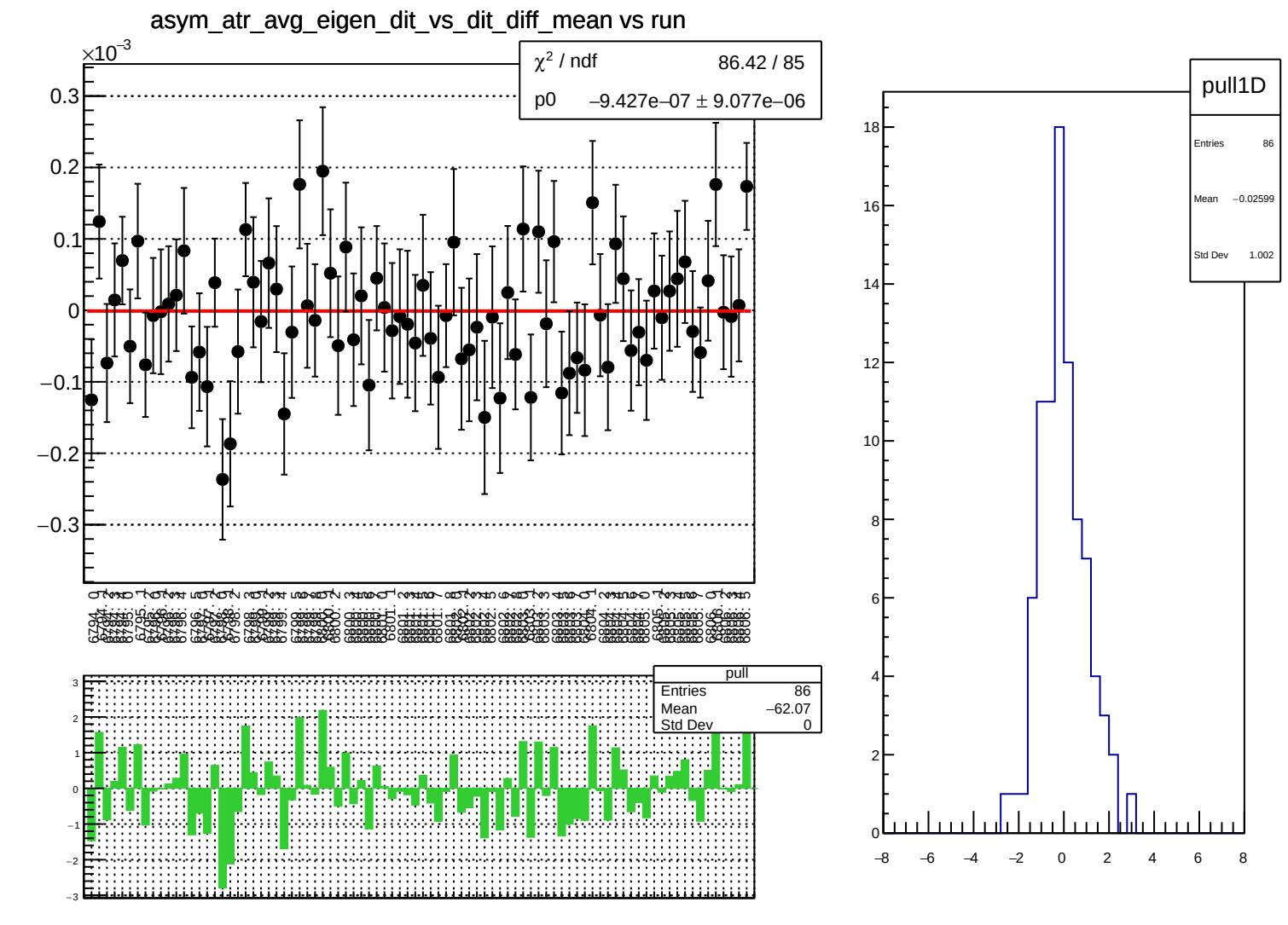

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 85
p0 0.3669 ± 0.3021
pull
Entries 86
Mean −31.94
Std Dev 0

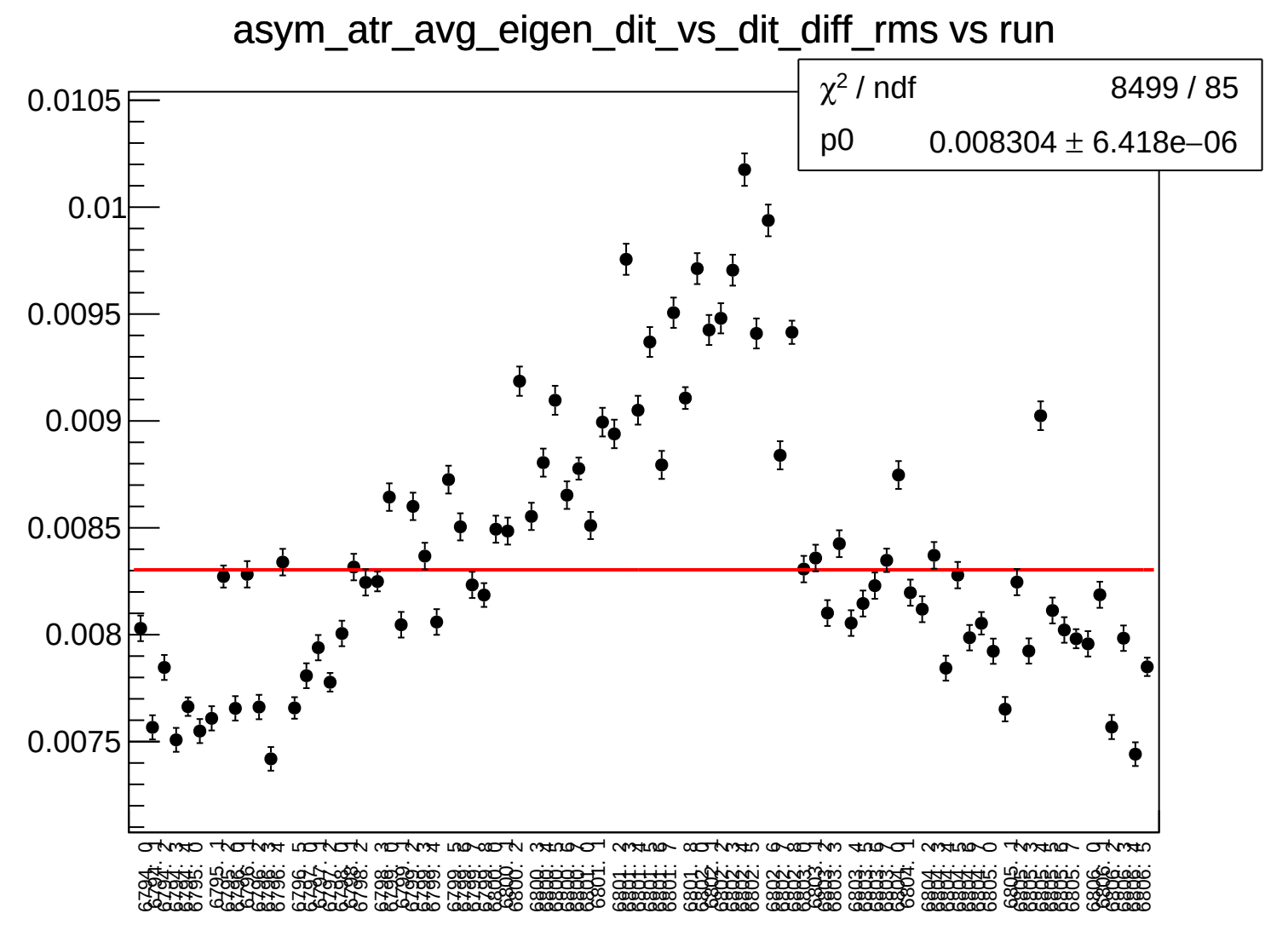

pull1D
Entries 86
Mean −0.01271
Std Dev 1.027

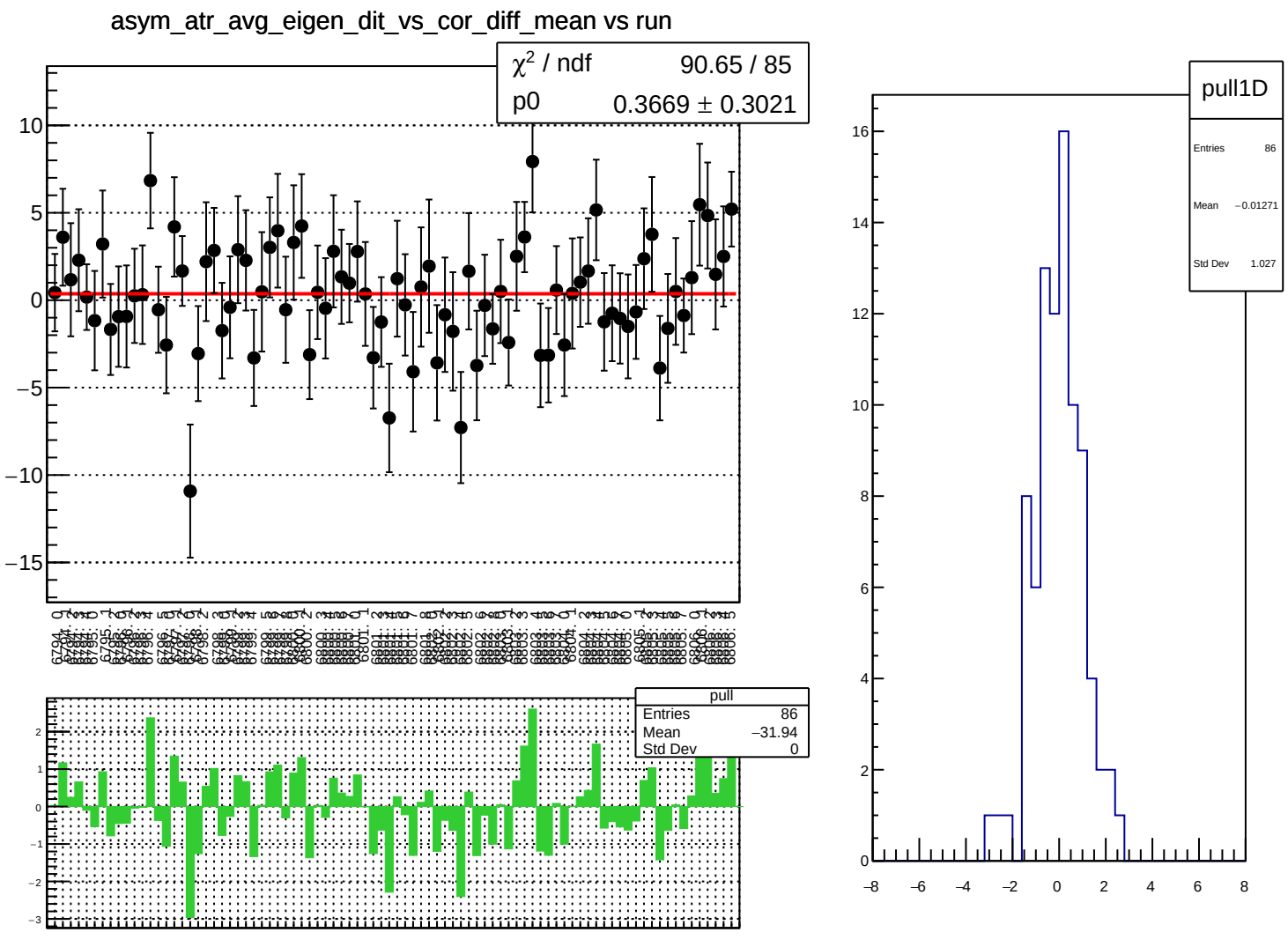

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.205e+04 / 85
p0 275.2 ± 0.2136
450
400
350
300
250
200

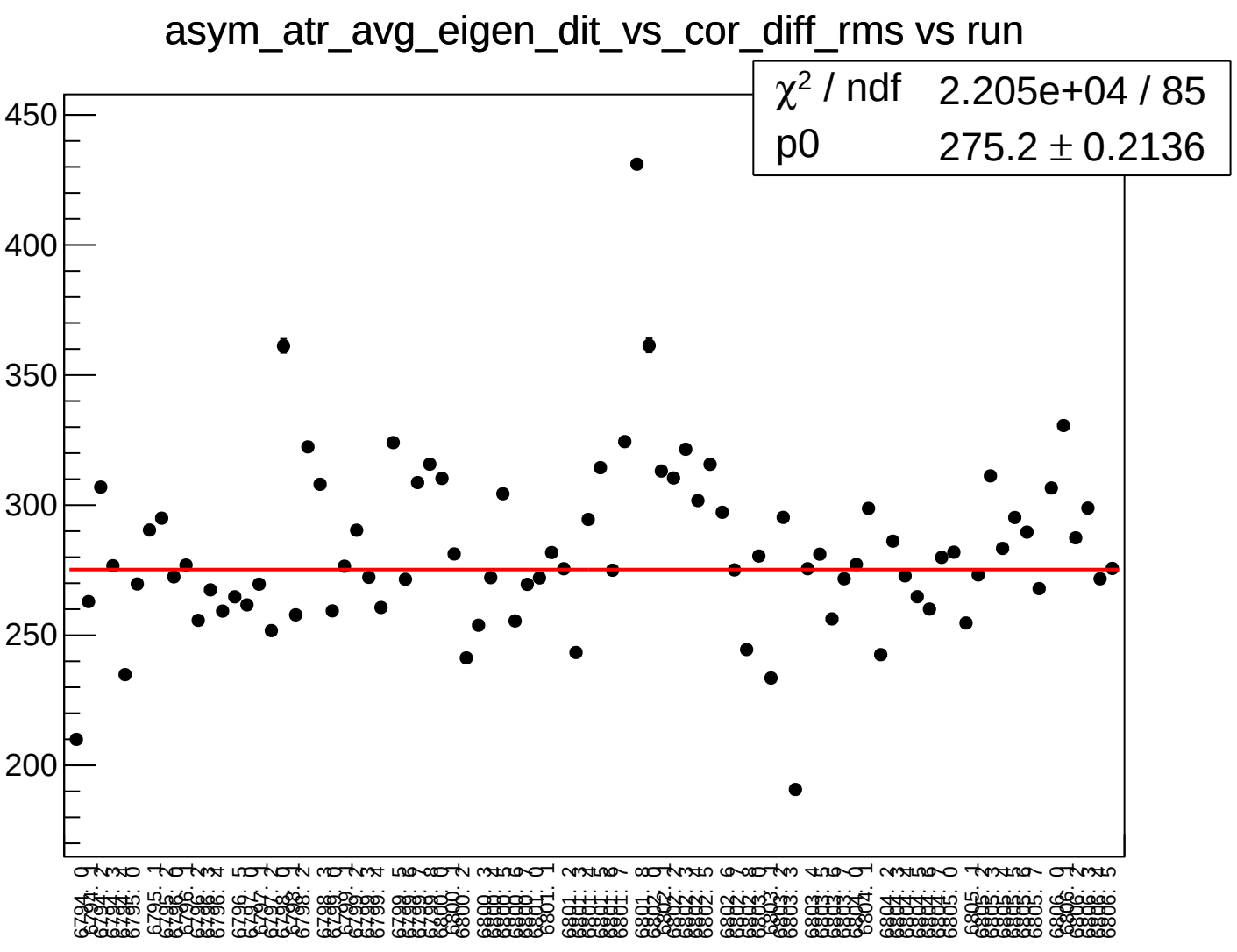

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.65 / 85
p0 0.3669 ± 0.3021
pull
Entries 86
Mean −31.94
Std Dev 0
pull1D
Entries 86
Mean −0.01271
Std Dev 1.027

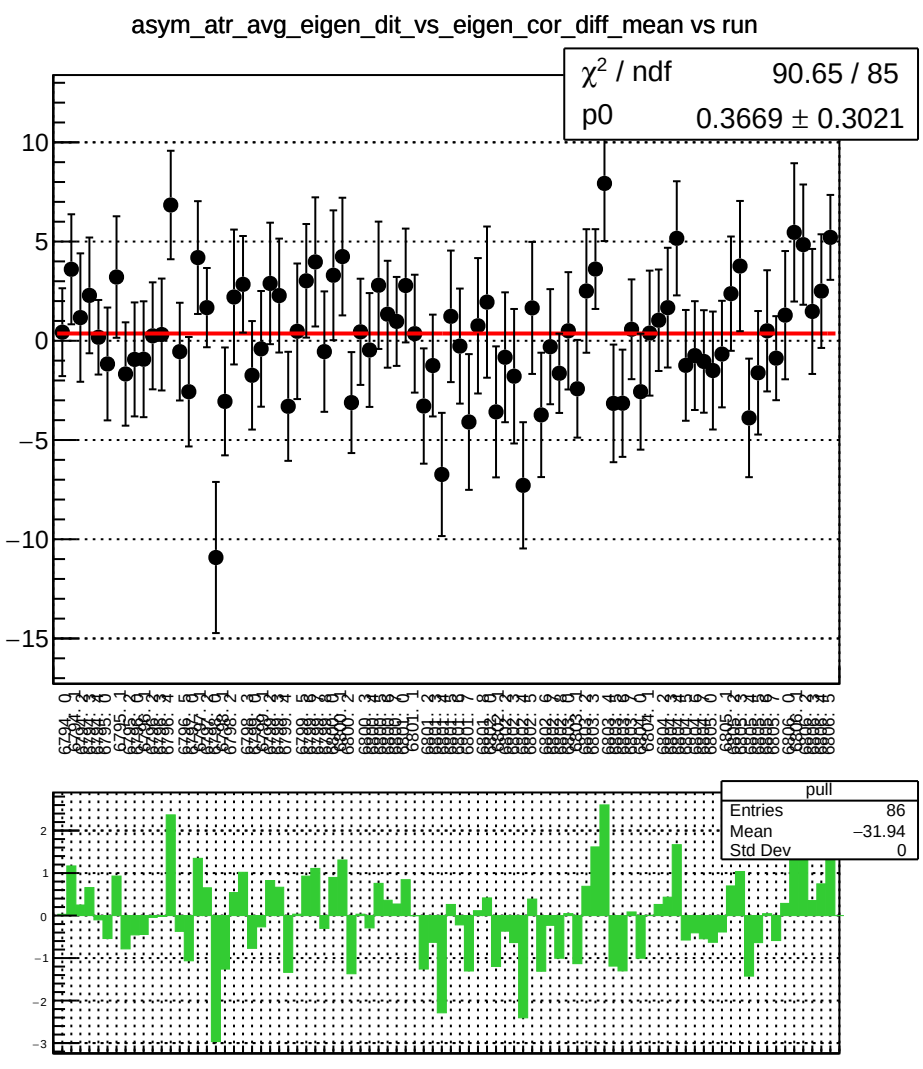

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.205e+04 / 85
p0 275.2 ± 0.2136
450
400
350
300
250
200

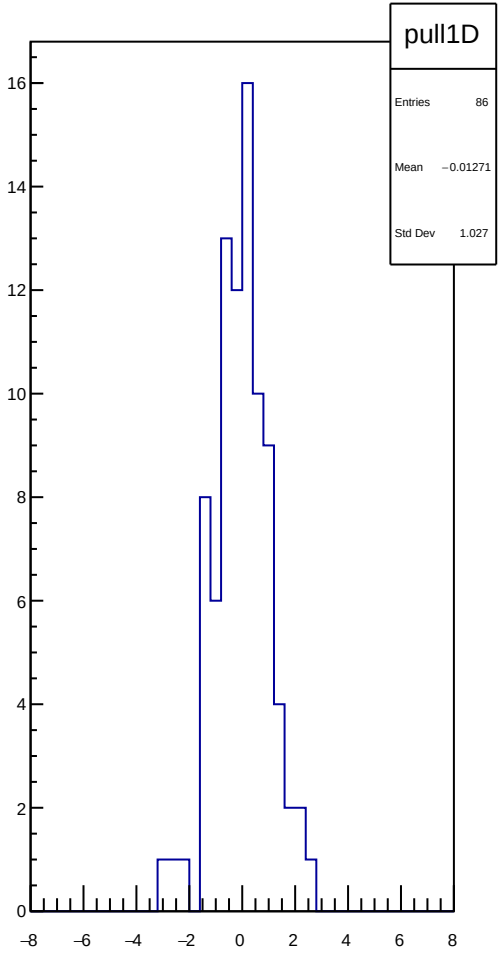

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.42 / 85
p0 −9.427e−07 ± 9.077e−06
pull
Entries 86
Mean −62.07
Std Dev 0
pull1D
Entries 86
Mean −0.02599
Std Dev 1.002

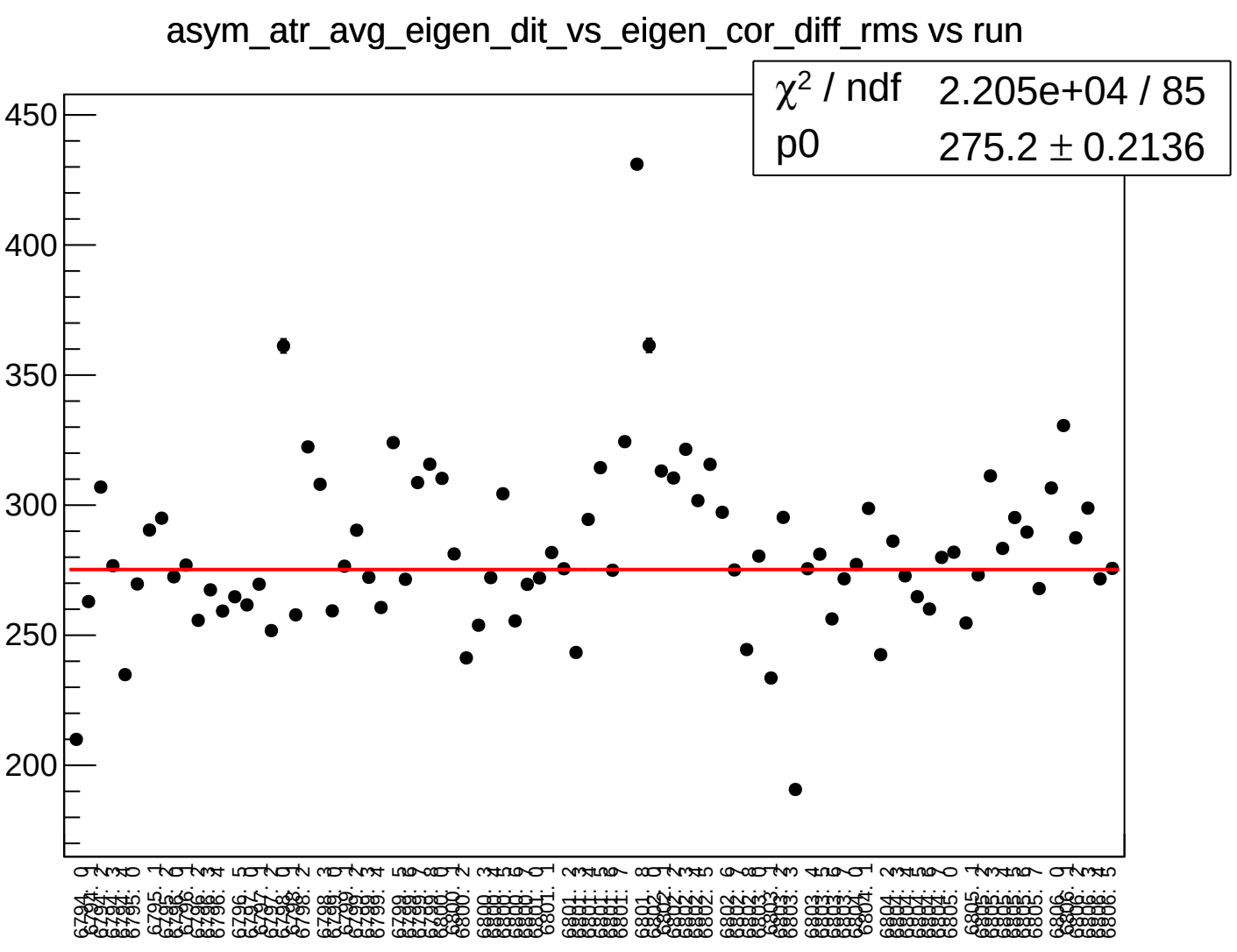

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8499 / 85
p0 0.008304 ± 6.418e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

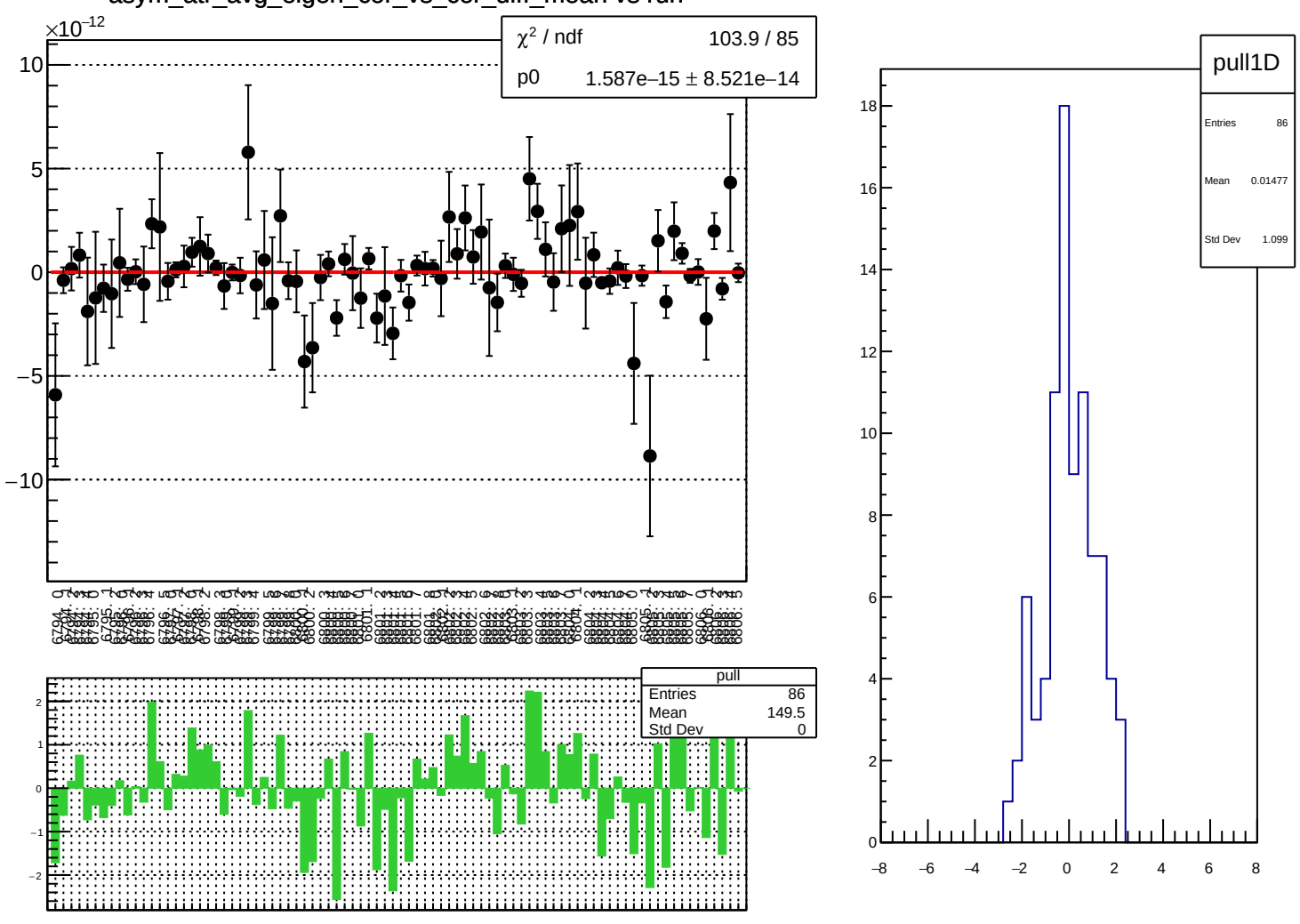

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.65 / 85
p0 0.3669 ± 0.3021
pull
Entries 86
Mean −31.94
Std Dev 0
pull1D
Entries 86
Mean −0.01271
Std Dev 1.027

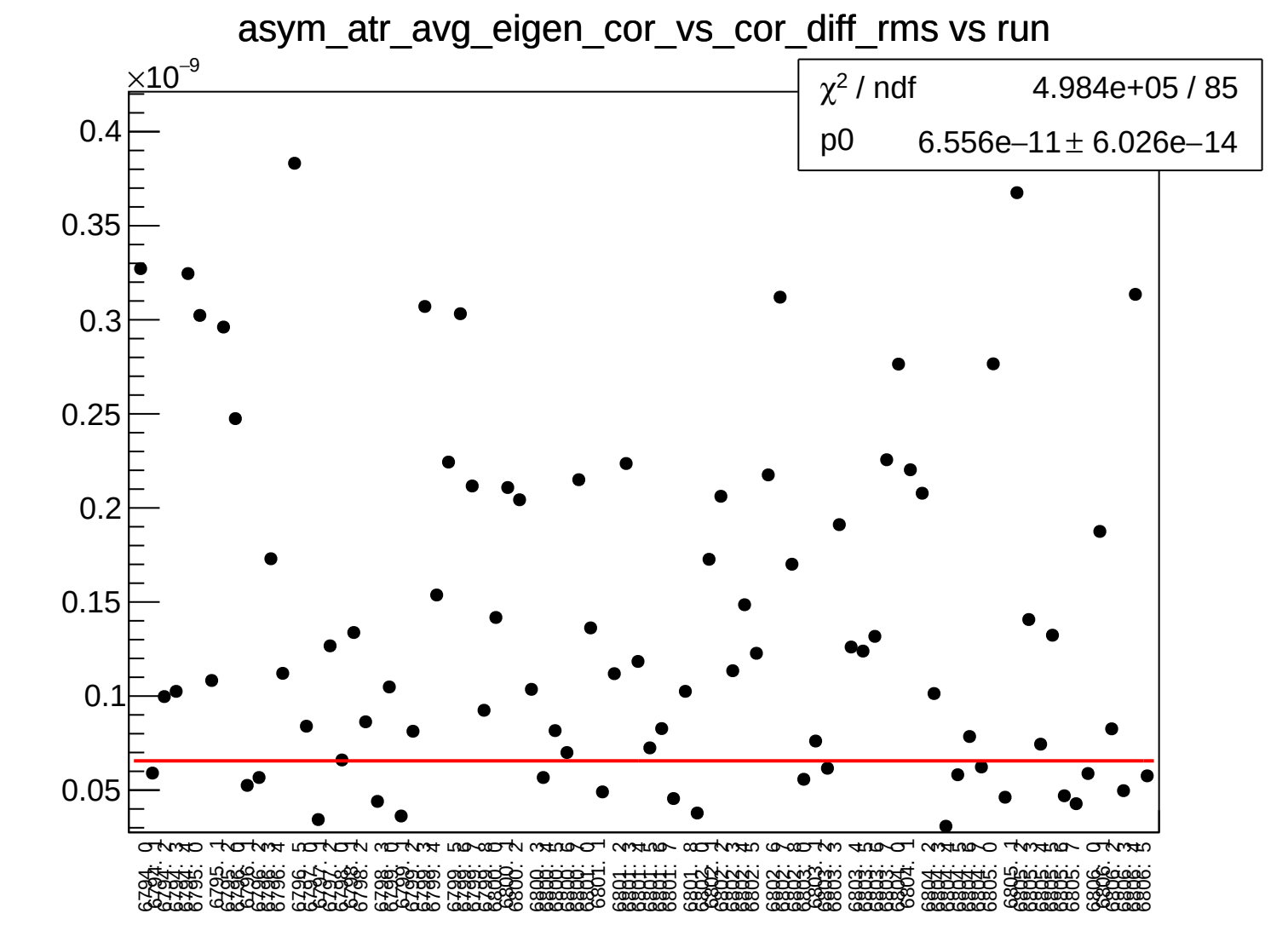

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.205e+04 / 85
p0 275.2 ± 0.2136
450
400
350
300
250
200

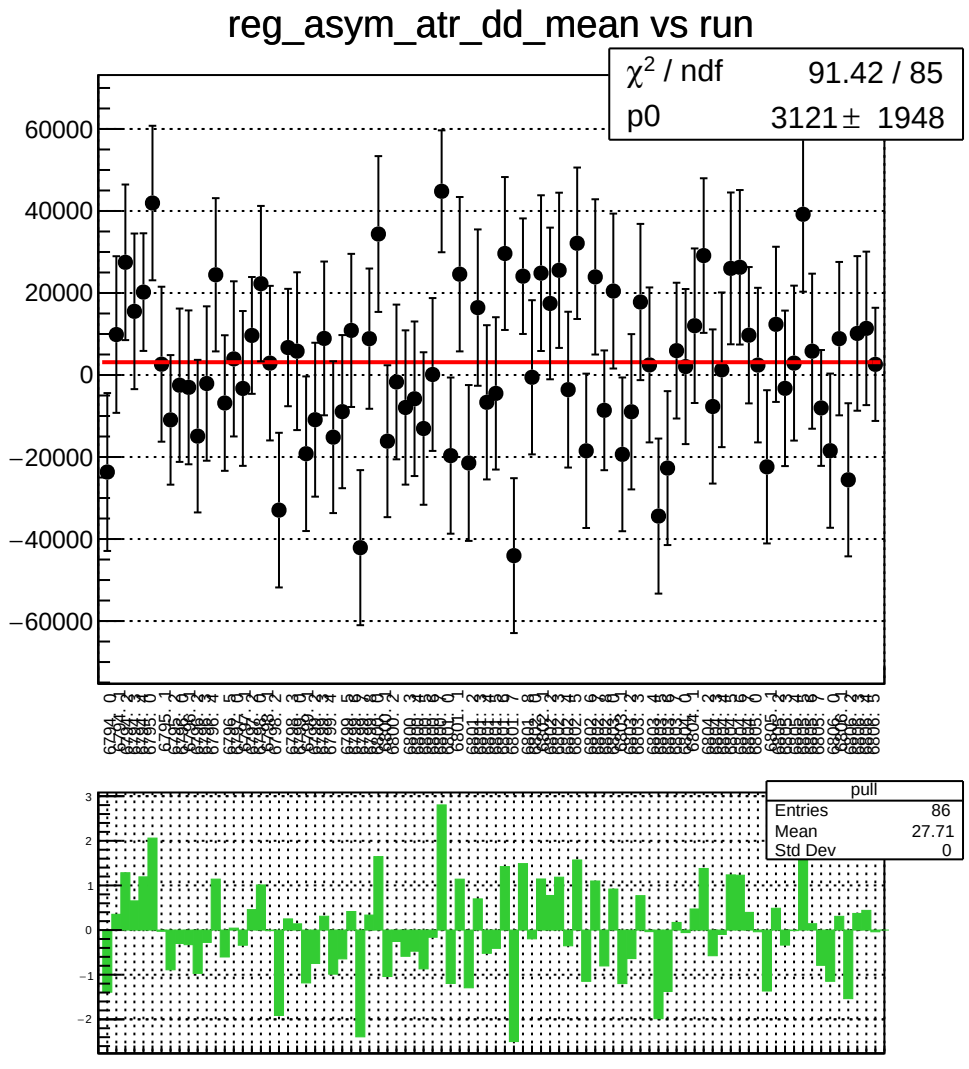

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.65 / 85
p0 0.3669 ± 0.3021
pull
Entries 86
Mean −31.94
Std Dev 0

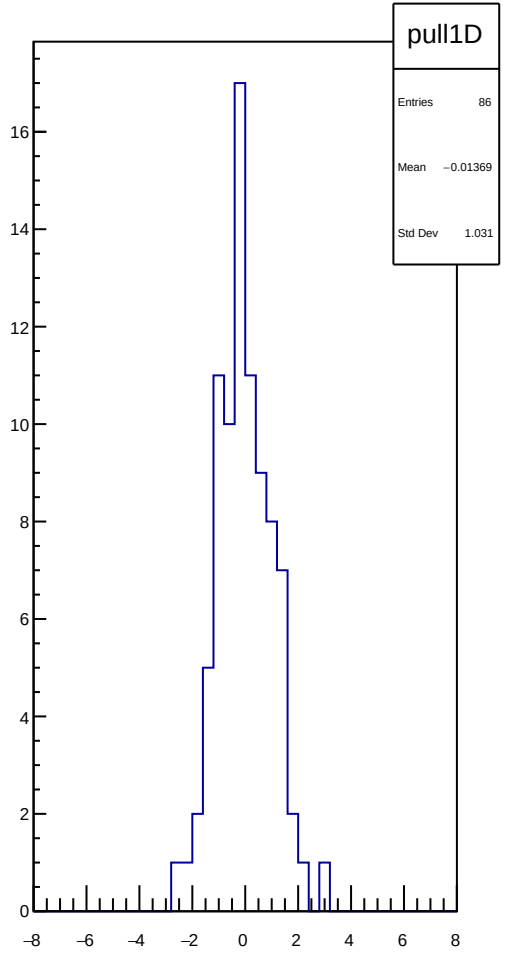

pull1D
Entries 86
Mean −0.01271
Std Dev 1.027

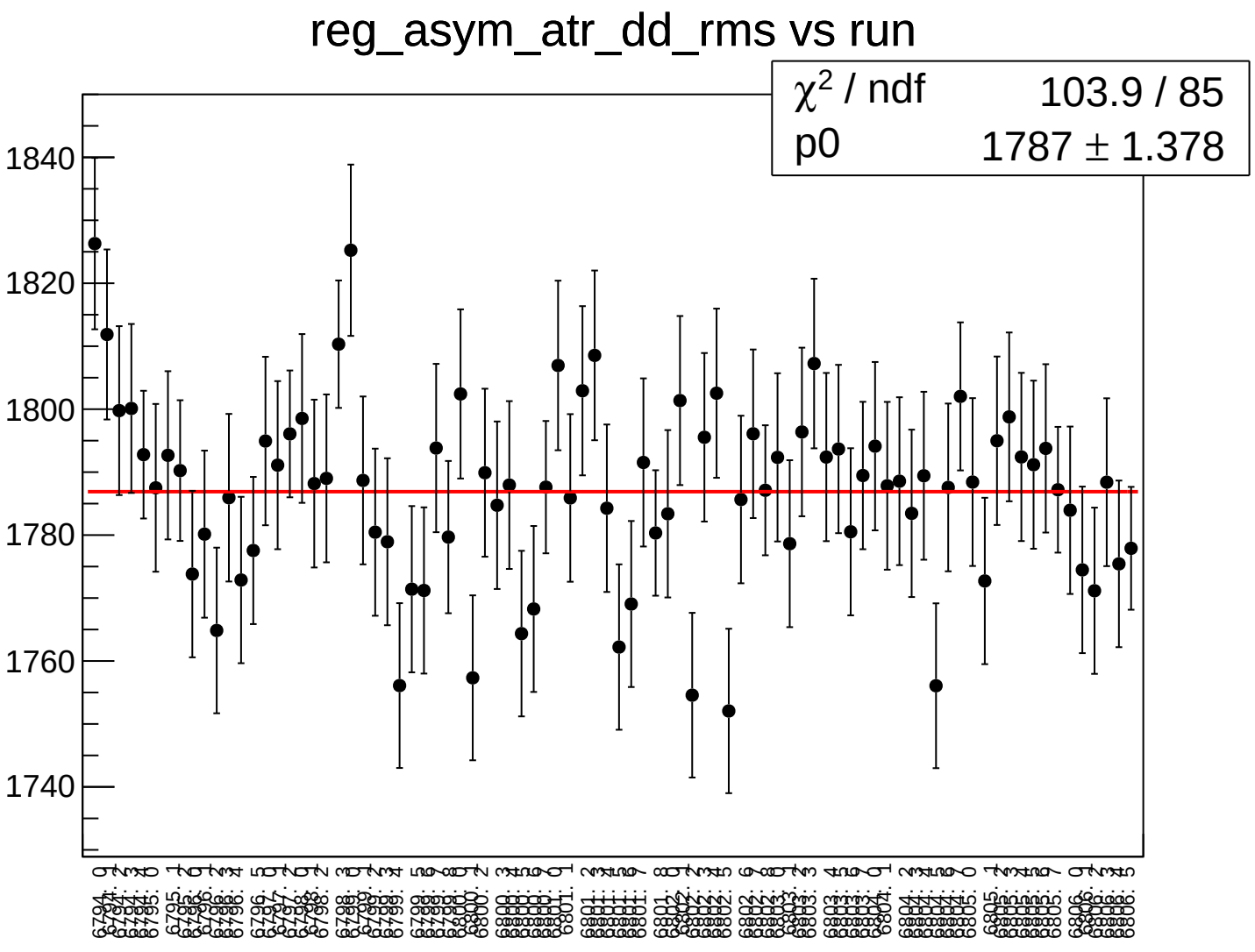

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.205e+04 / 85
p0 275.2 ± 0.2136
450
400
350
300
250
200

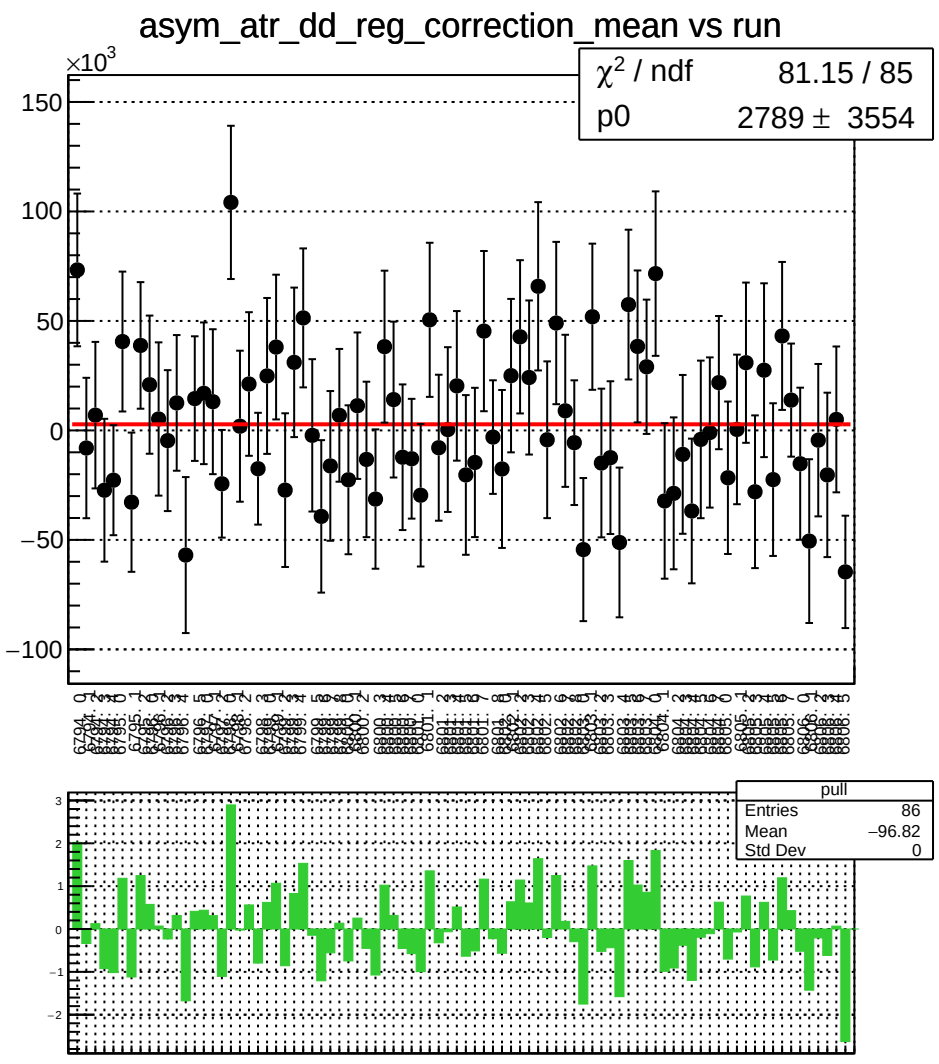

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.9 / 85
p0 1.587e−15 ± 8.521e−14
pull
Entries 86
Mean 149.5
Std Dev 0
pull1D
Entries 86
Mean 0.01477
Std Dev 1.099

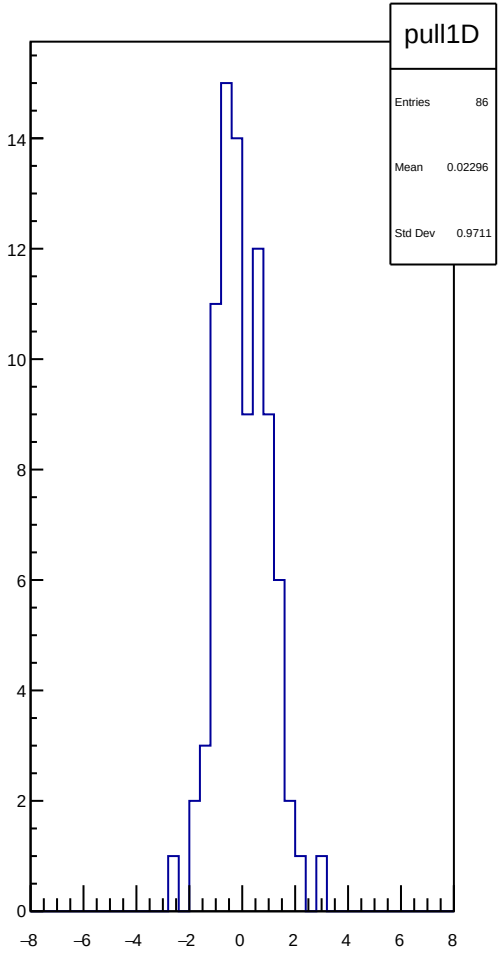

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.984e+05 / 85
p0 6.556e−11 ± 6.026e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

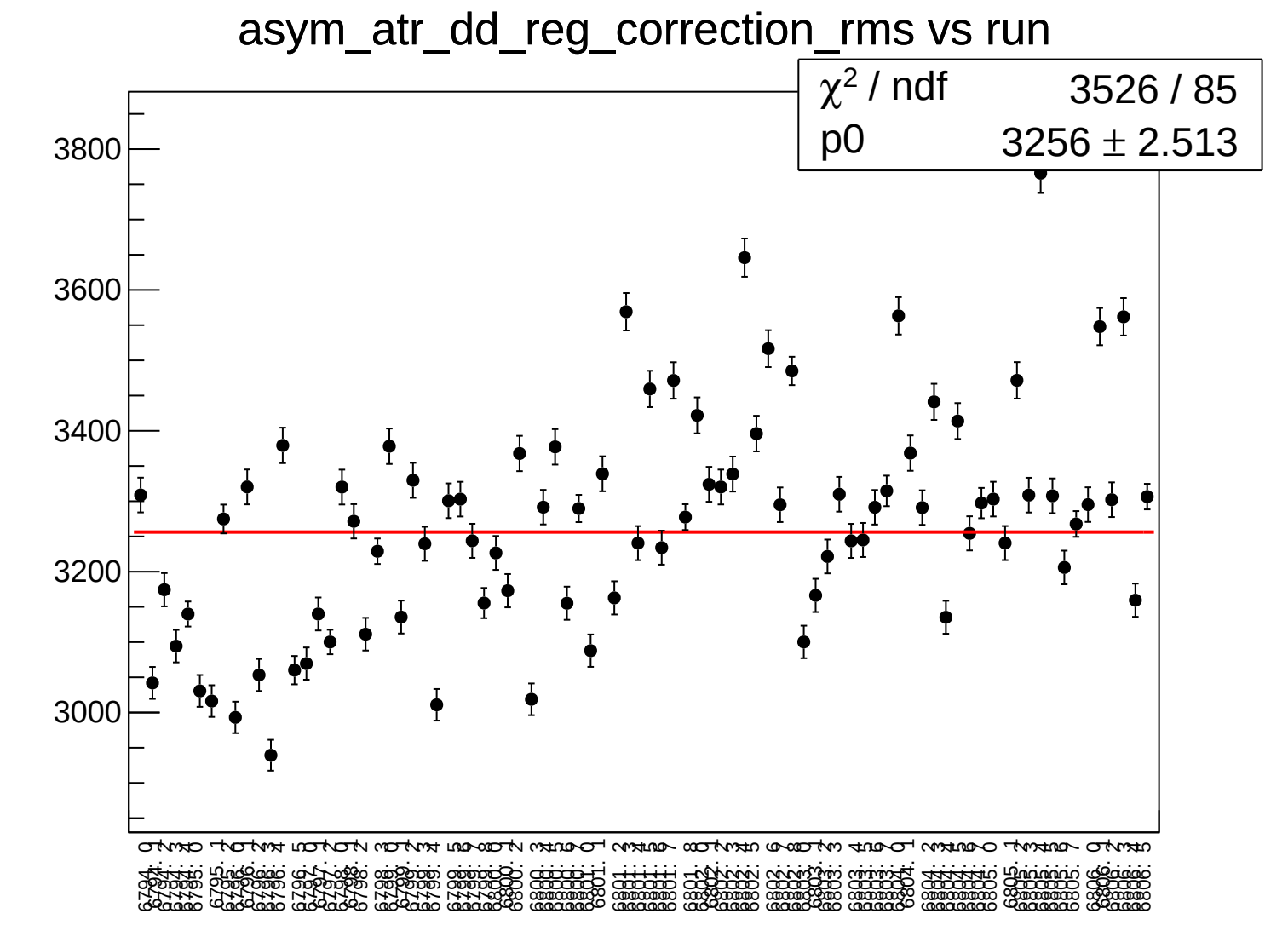

reg_asym_atr_dd_mean vs run
χ² / ndf 91.42 / 85
p0 3121 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 27.71
Std Dev 0
3
2
1
0
−1
−2

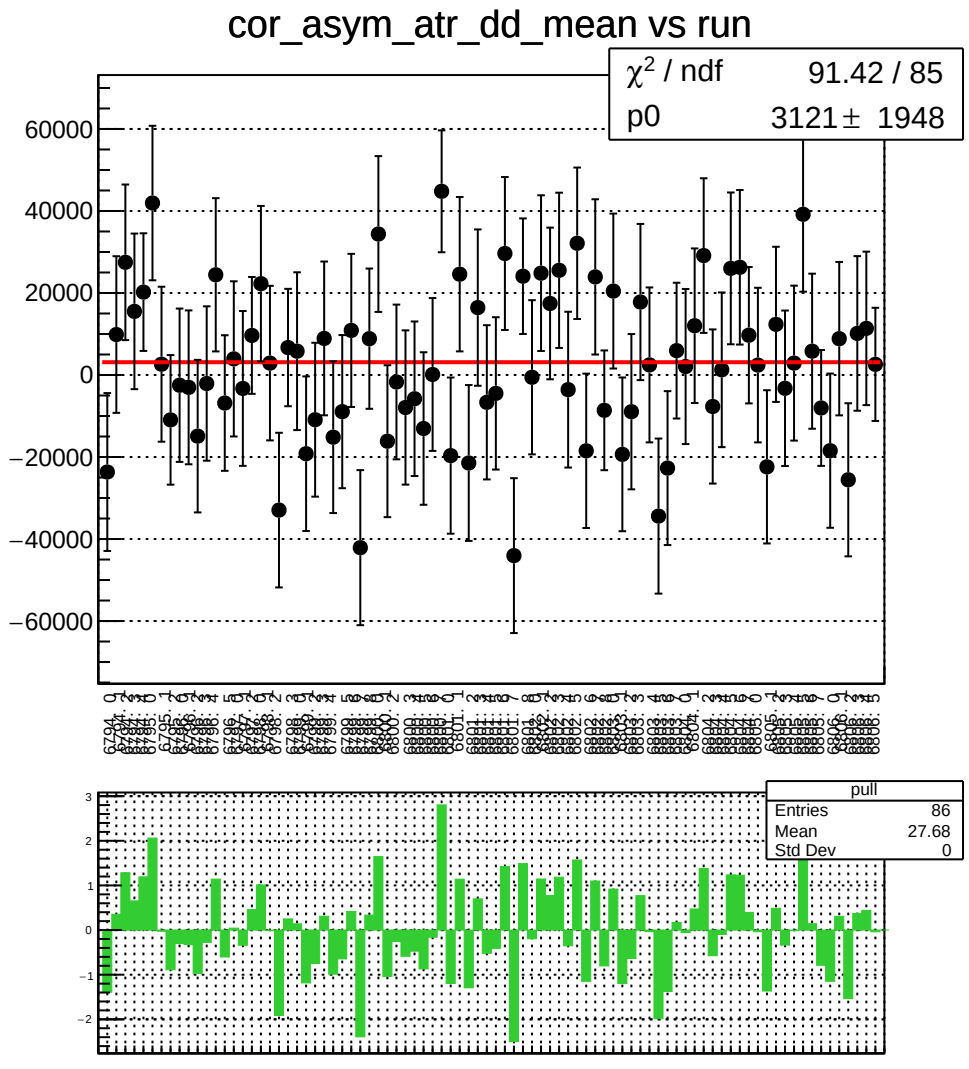

pull1D
Entries 86
Mean −0.01369
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

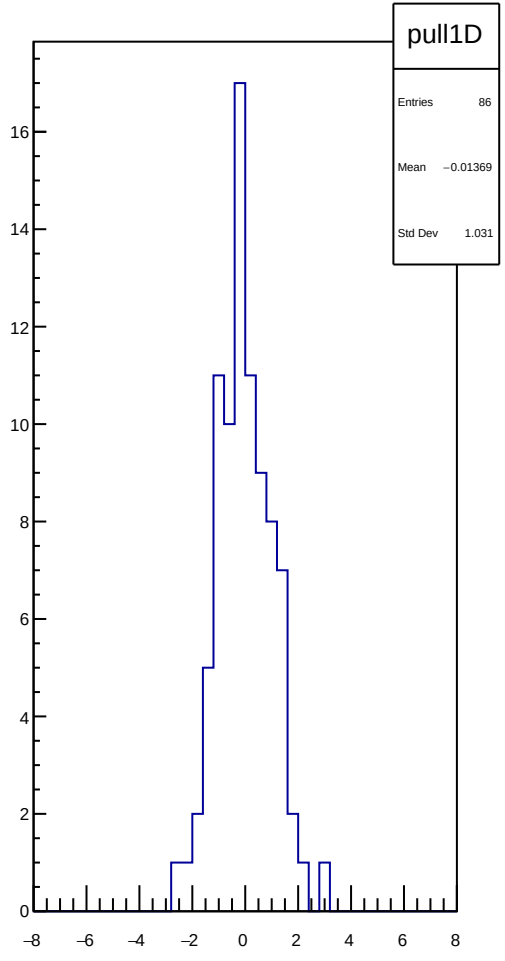

reg_asym_atr_dd_rms vs run
χ^2 / ndf 103.9 / 85
p0 1787 ± 1.378
1840
1820
1800
1780
1760
1740

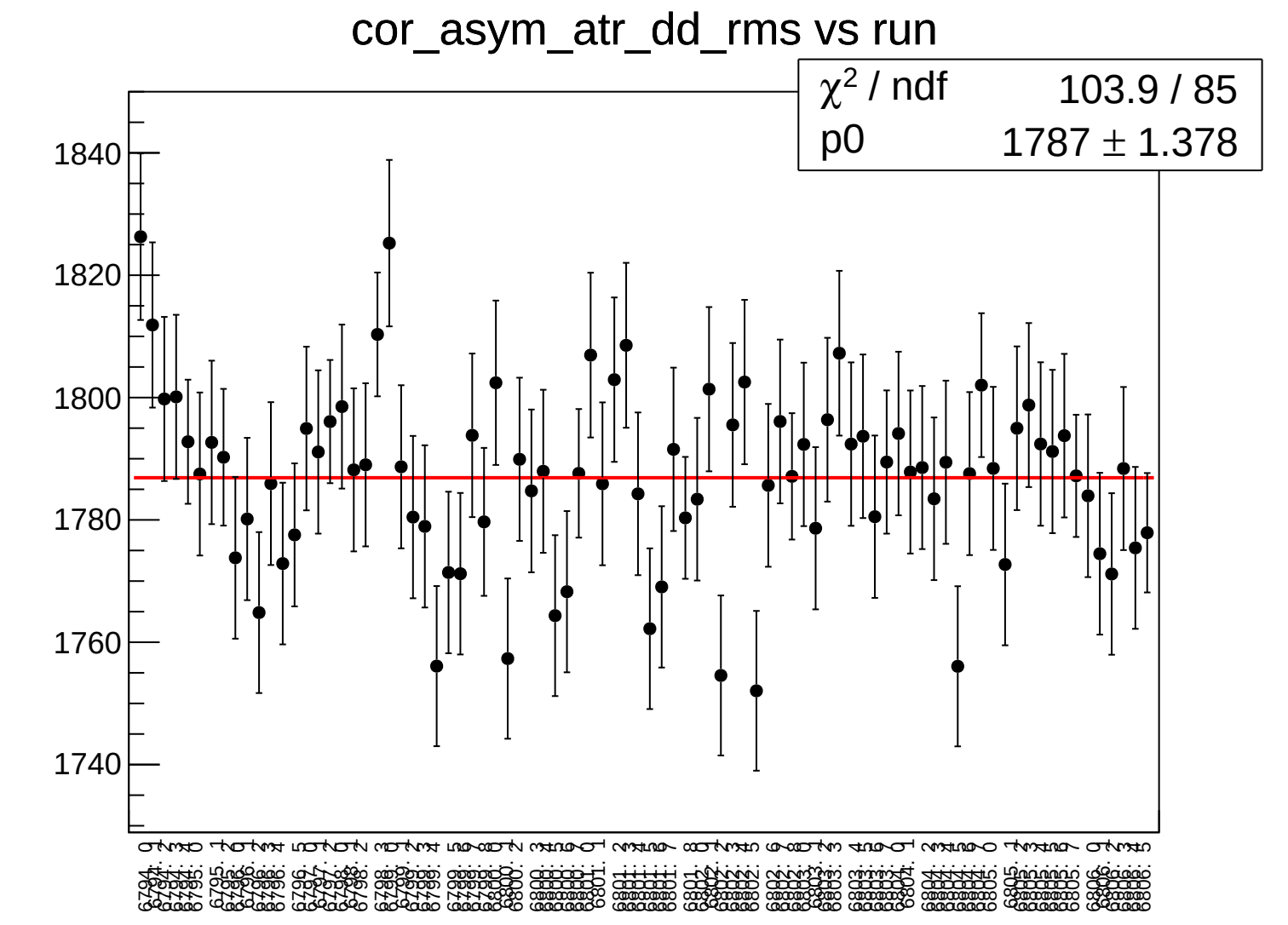

asym_atr_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 81.15 / 85
p0 2789 ± 3554
150
100
50
0
−50
−100
pull
Entries 86
Mean −96.82
Std Dev 0
3
2
1
0
−1
−2

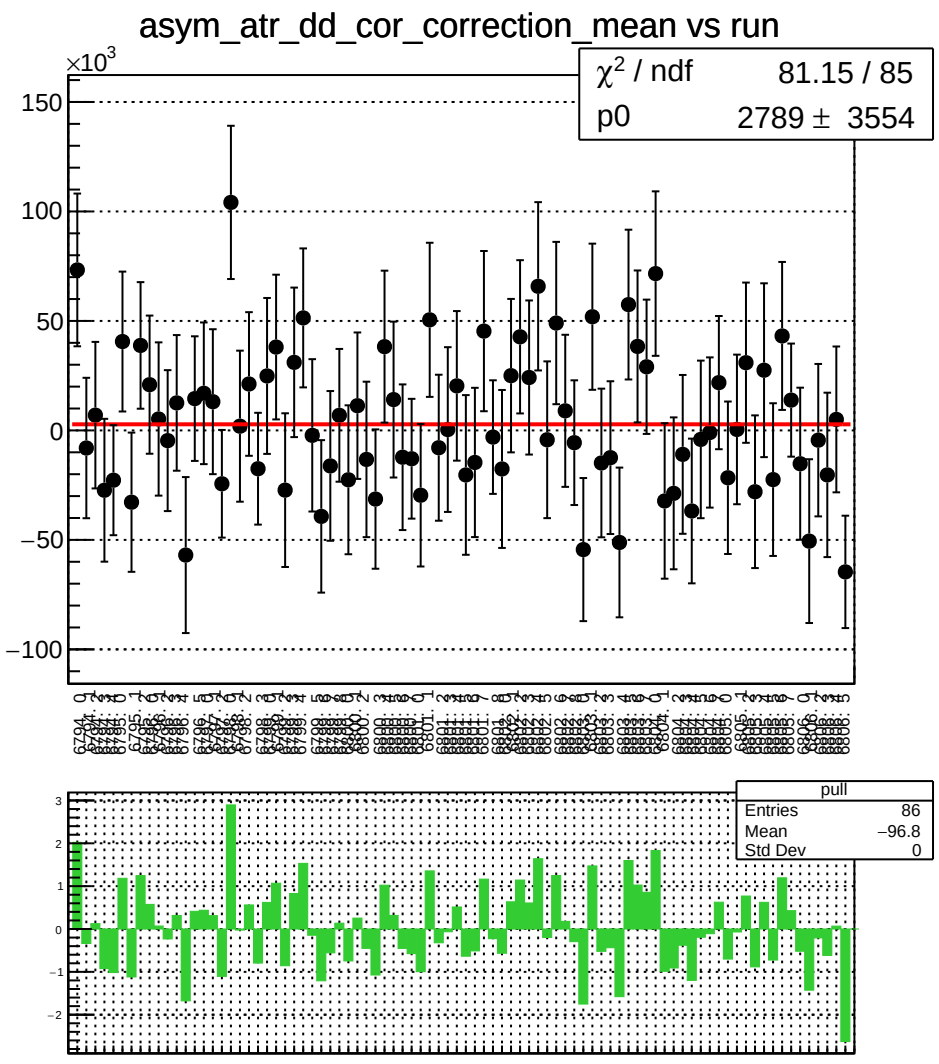

pull1D
Entries 86
Mean 0.02296
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

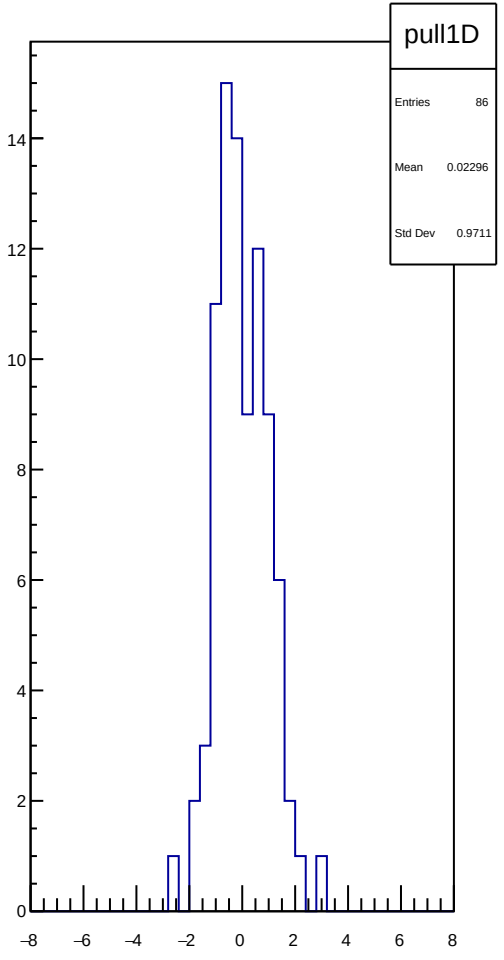

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 3526 / 85
p0 3256 ± 2.513
3800
3600
3400
3200
3000

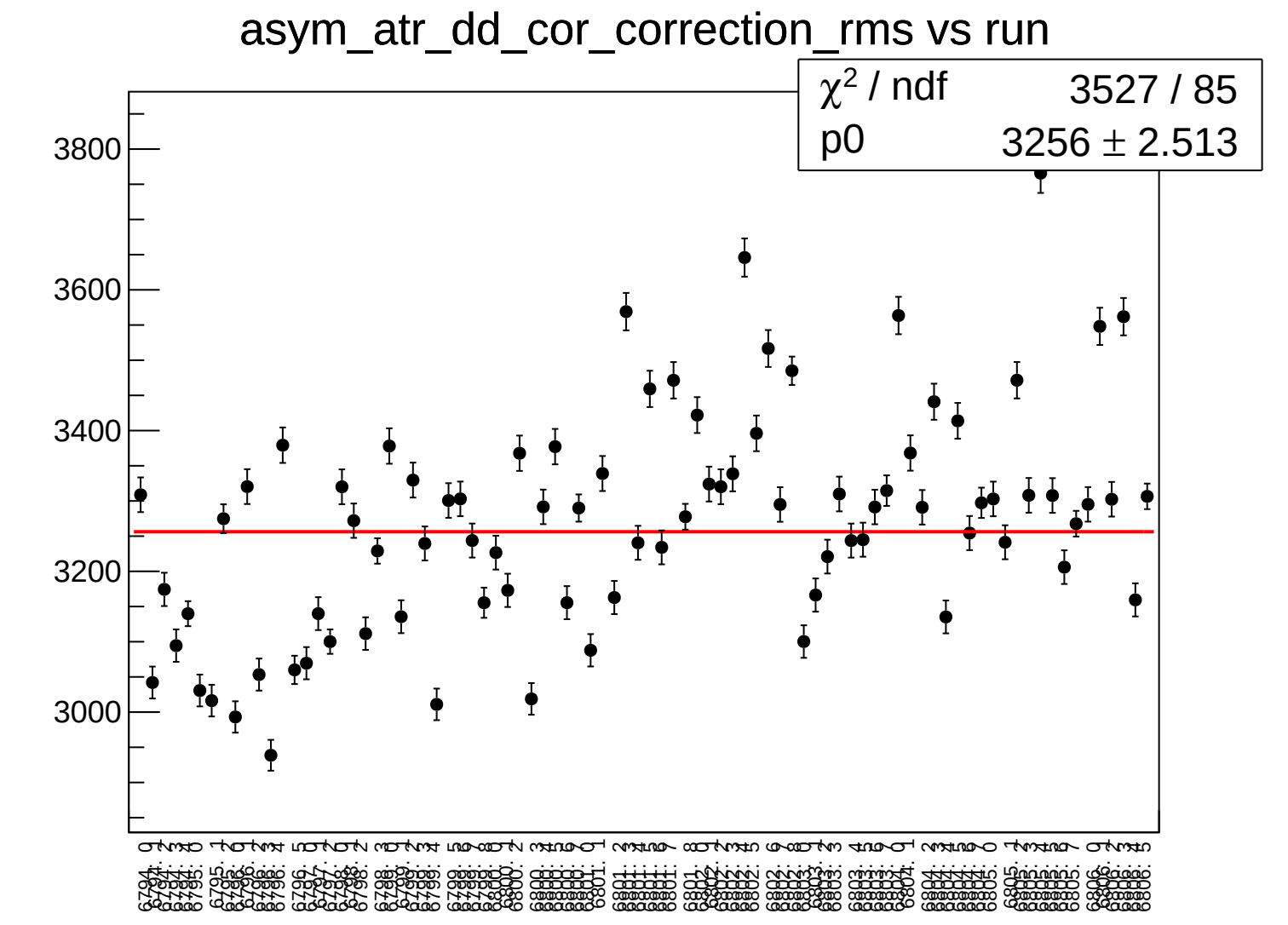

cor_asym_atr_dd_mean vs run
χ² / ndf 91.42 / 85
p0 3121 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 27.68
Std Dev 0
3
2
1
0
−1
−2

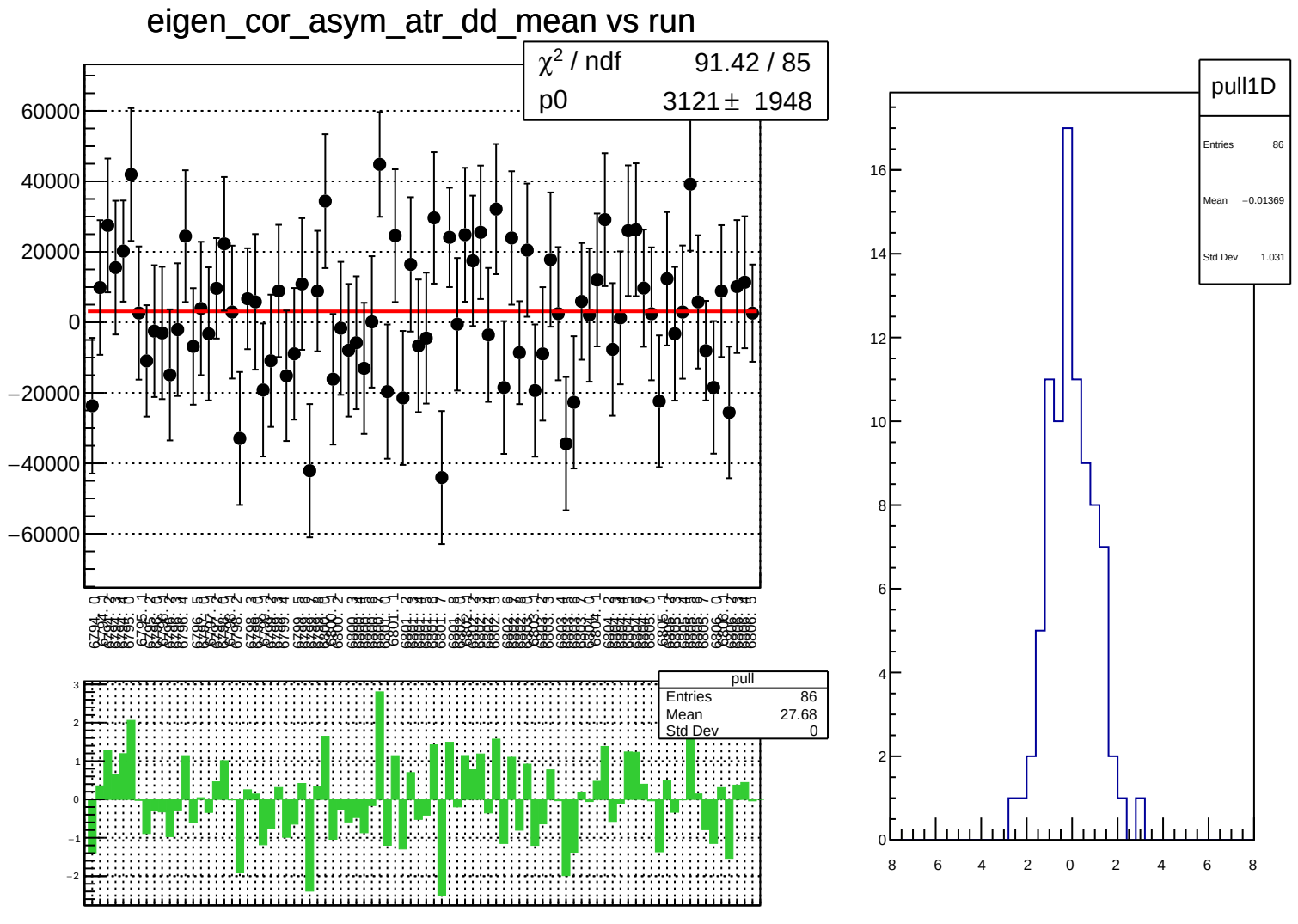

pull1D
Entries 86
Mean −0.01369
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

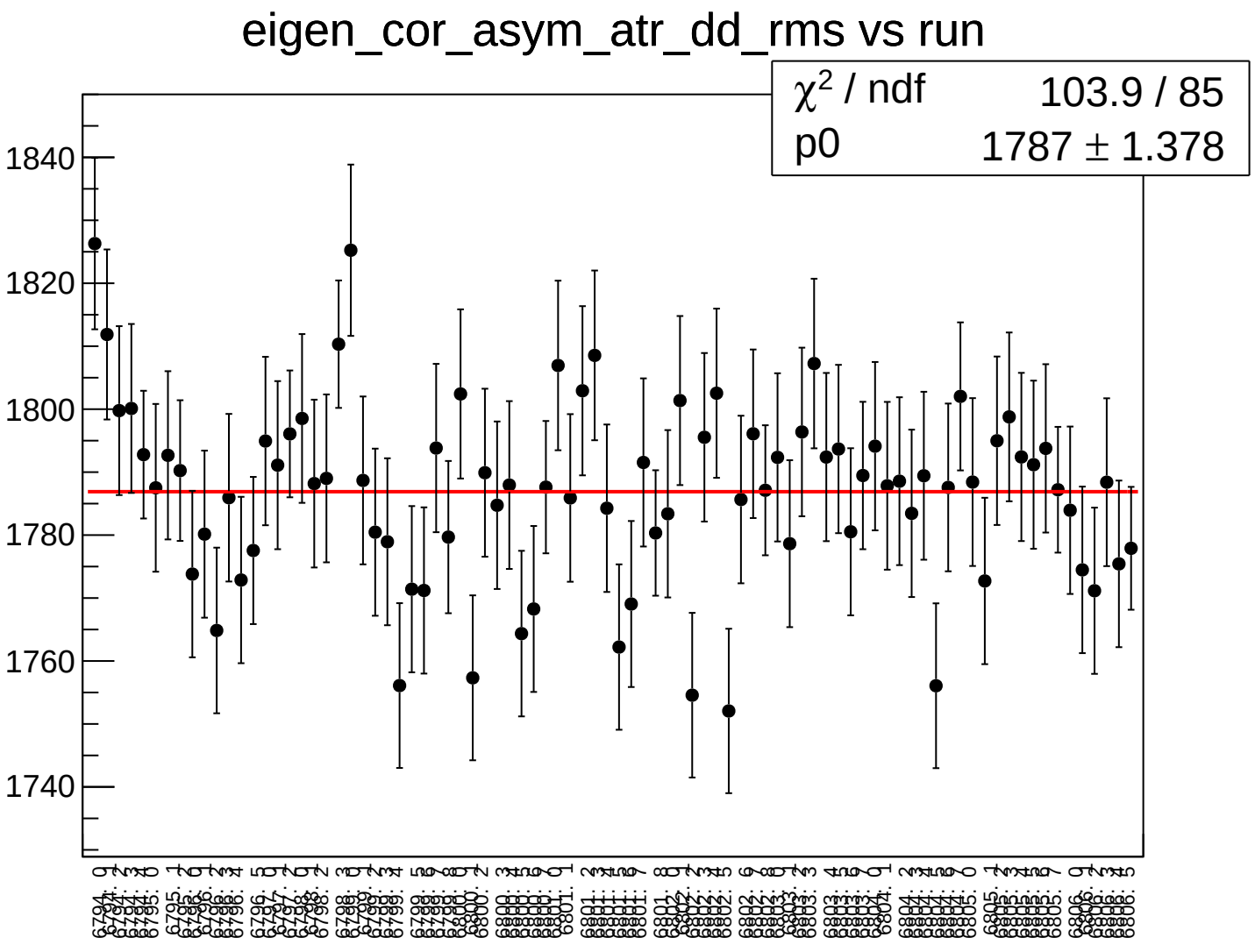

cor_asym_atr_dd_rms vs run
χ^2 / ndf 103.9 / 85
p0 1787 ± 1.378
1840
1820
1800
1780
1760
1740

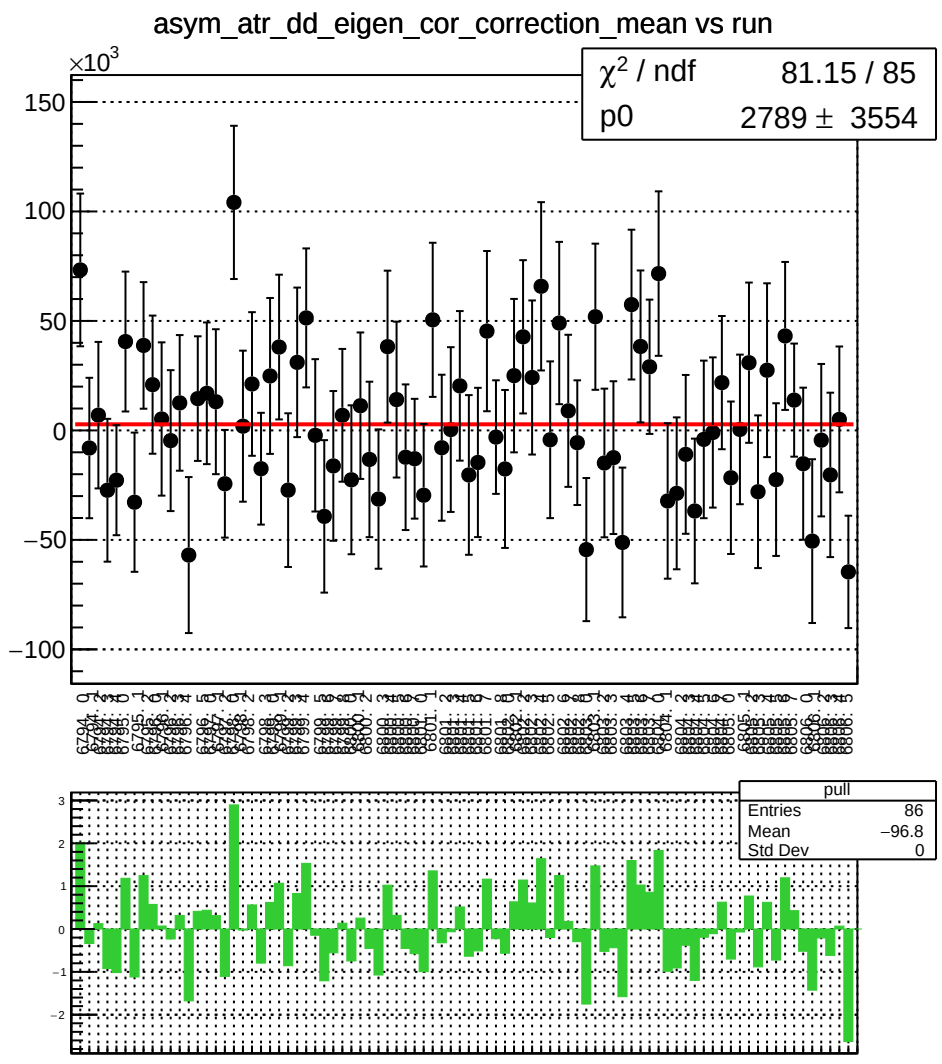

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.15 / 85
p0 2789 ± 3554
150
100
50
0
−50
−100
pull
Entries 86
Mean −96.8
Std Dev 0
3
2
1
0
−1
−2

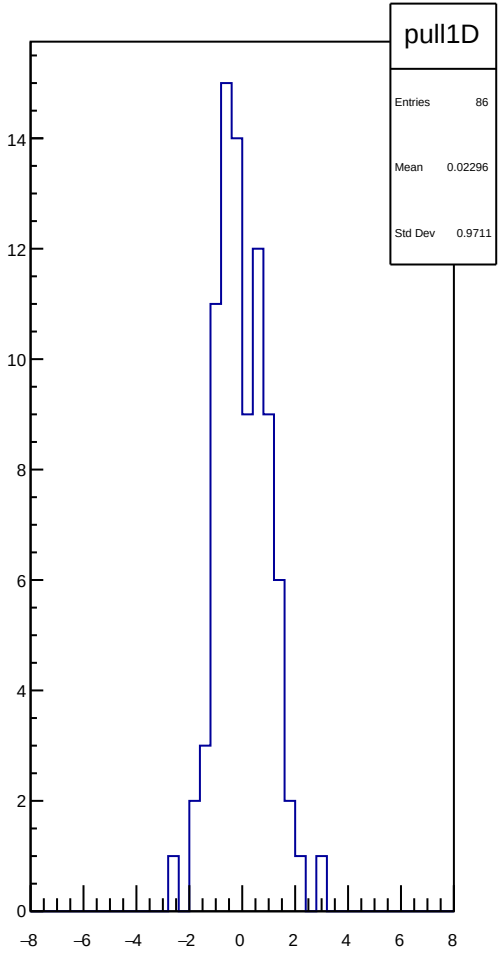

pull1D
Entries 86
Mean 0.02296
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

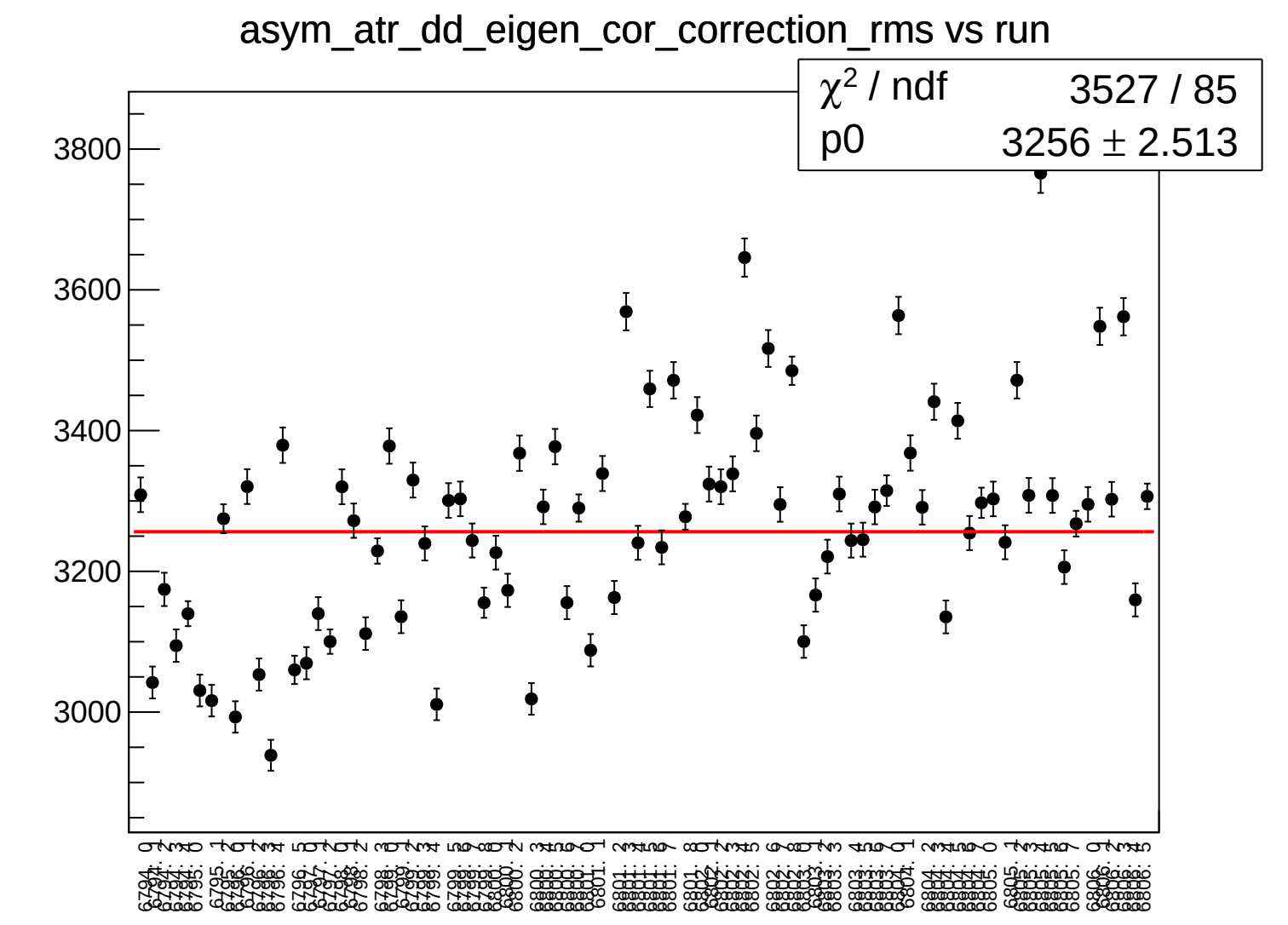

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 3527 / 85
p0 3256 ± 2.513
3800
3600
3400
3200
3000

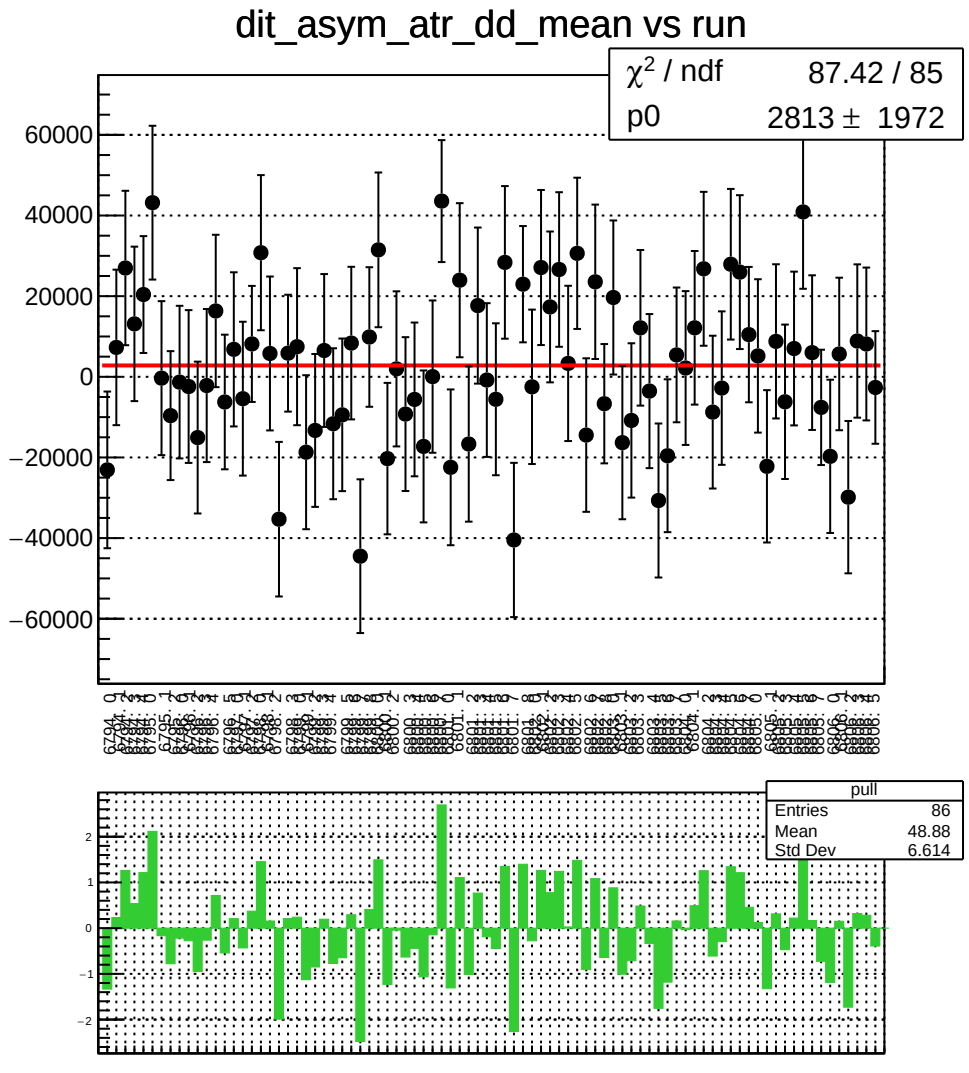

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 91.42 / 85
p0 3121 ± 1948
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 27.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01369
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

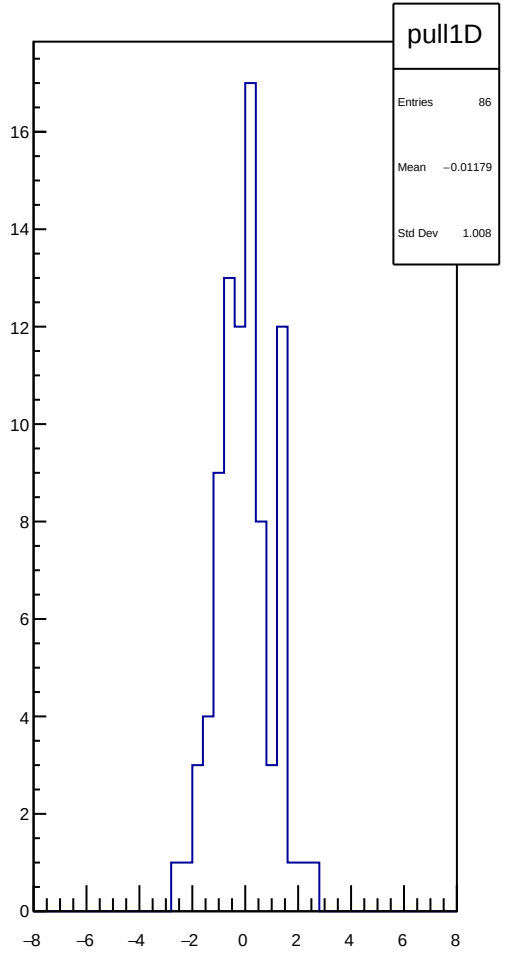

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 103.9 / 85
p0 1787 ± 1.378
1840
1820
1800
1780
1760
1740

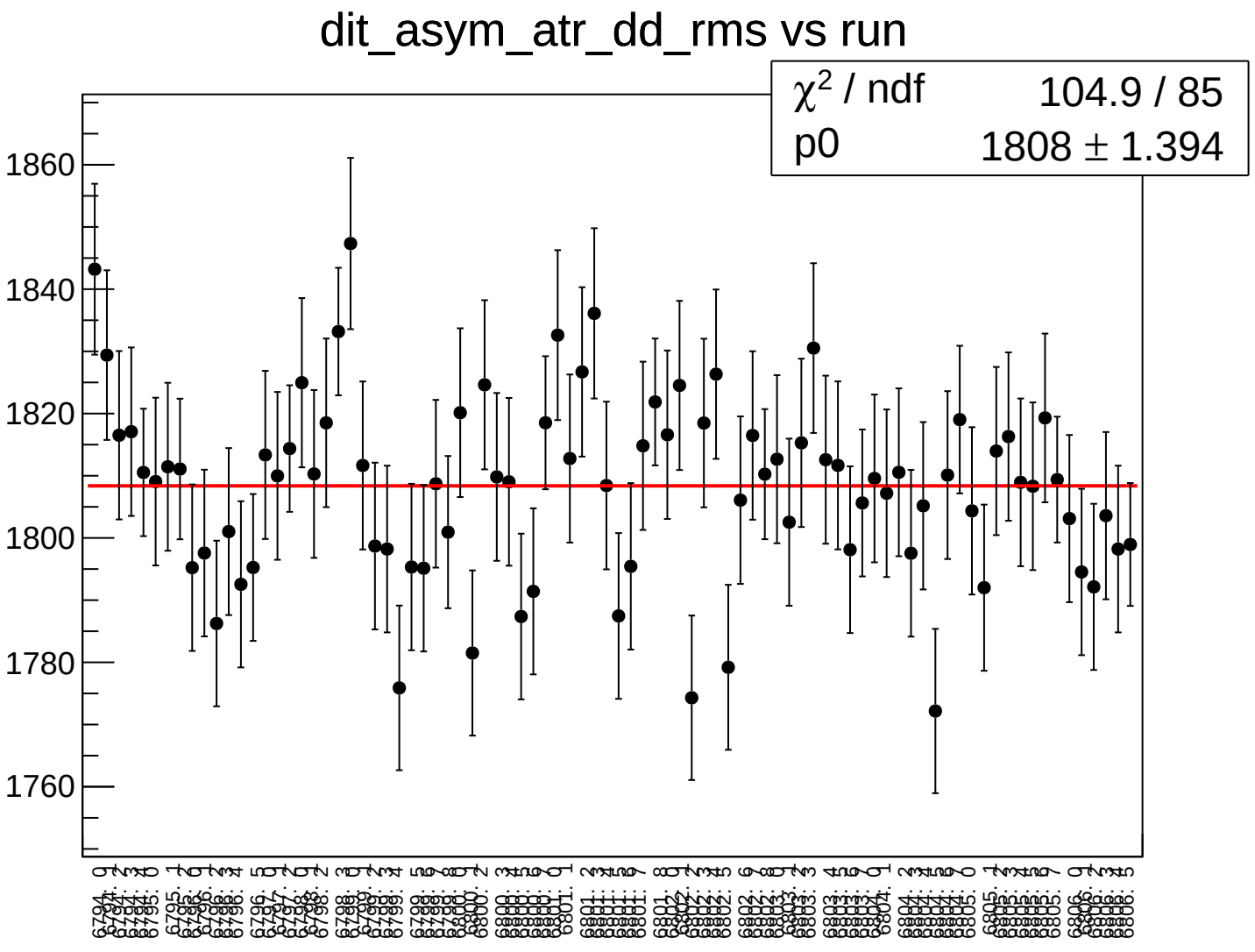

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.15 / 85
p0 2789 ± 3554
150
100
50
0
−50
−100
pull
Entries 86
Mean −96.8
Std Dev 0
3
2
1
0
−1
−2

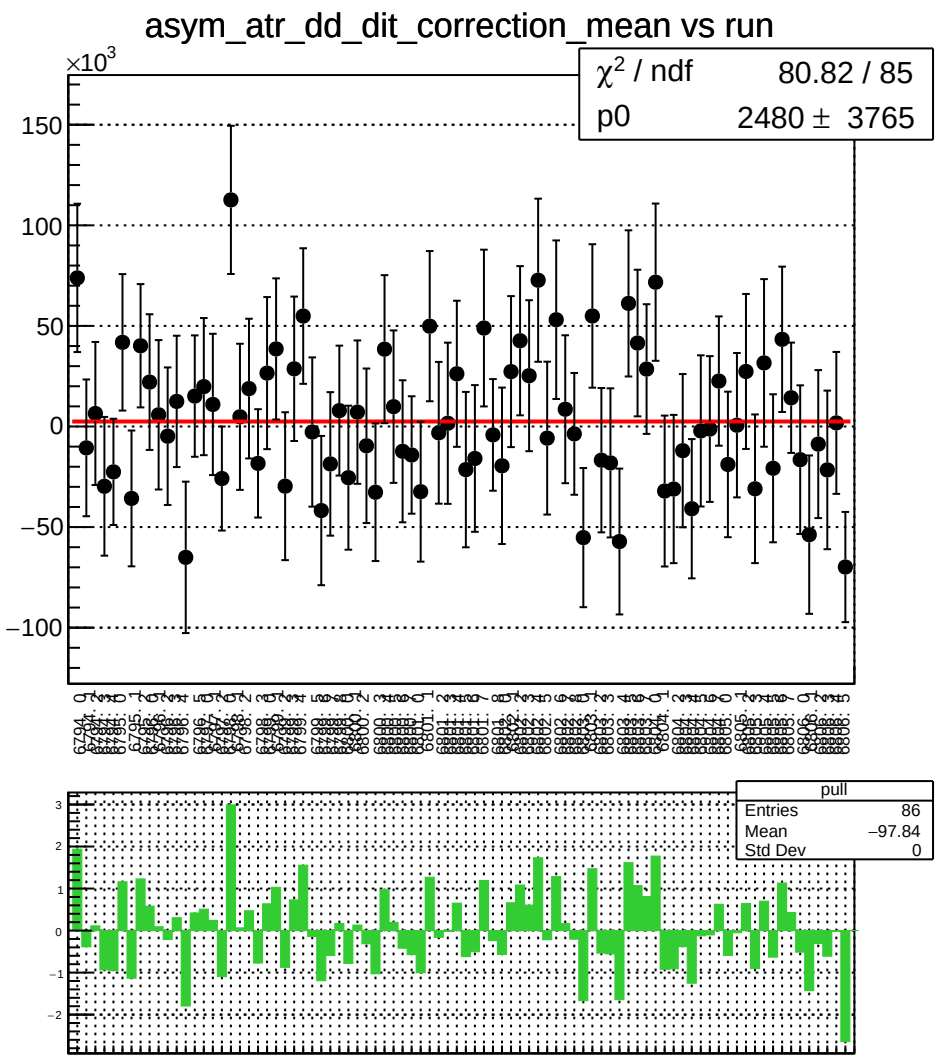

pull1D
Entries 86
Mean 0.02296
Std Dev 0.9711
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

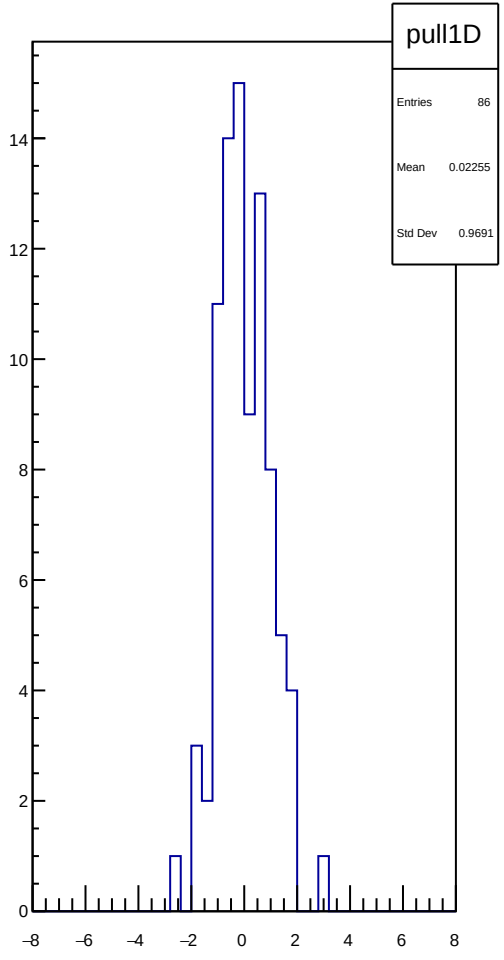

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 3527 / 85
p0 3256 ± 2.513
3800
3600
3400
3200
3000

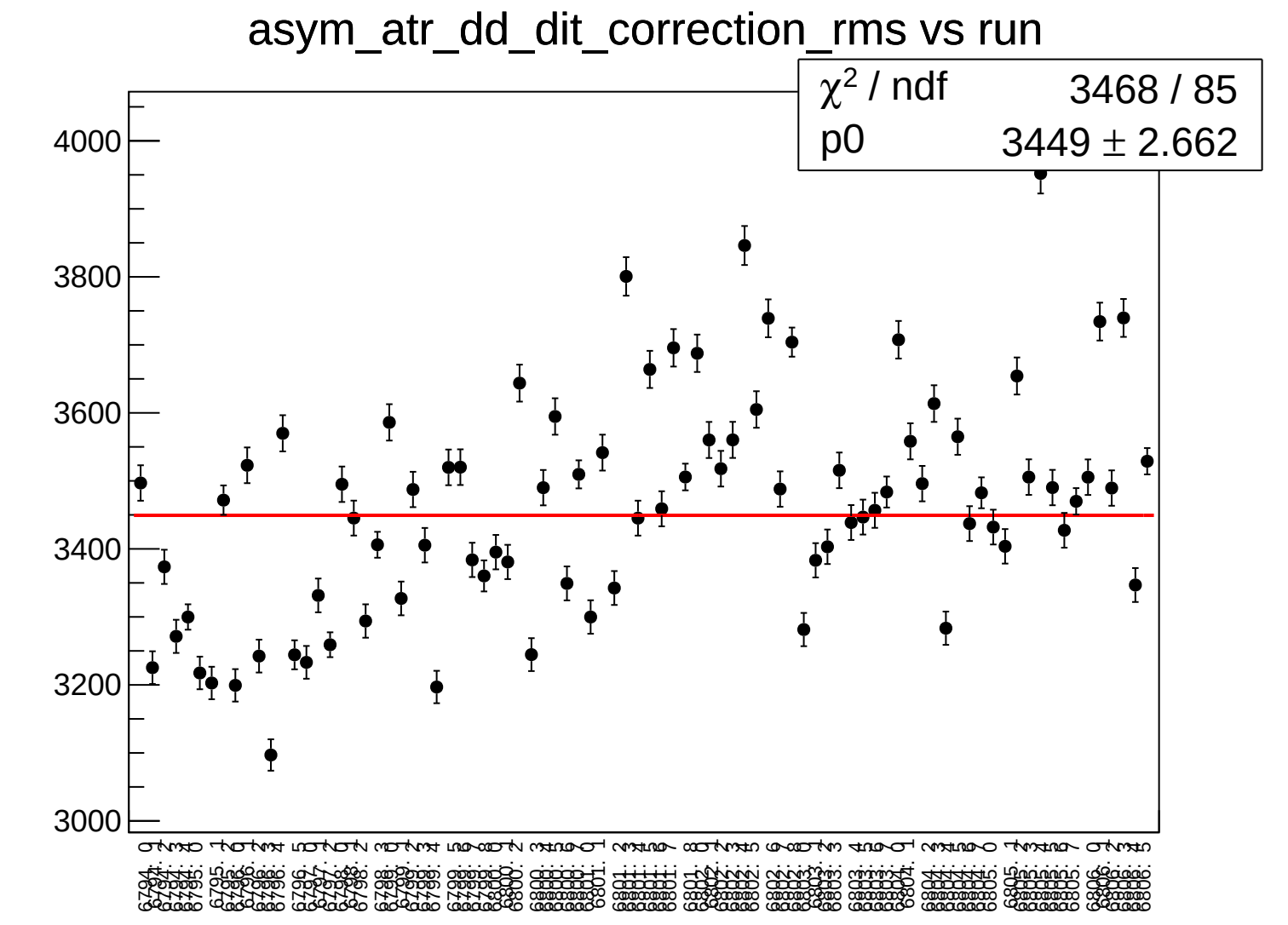

dit_asym_atr_dd_mean vs run
χ² / ndf 87.42 / 85
p0 2813 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 48.88
Std Dev 6.614
2
1
0
−1
−2

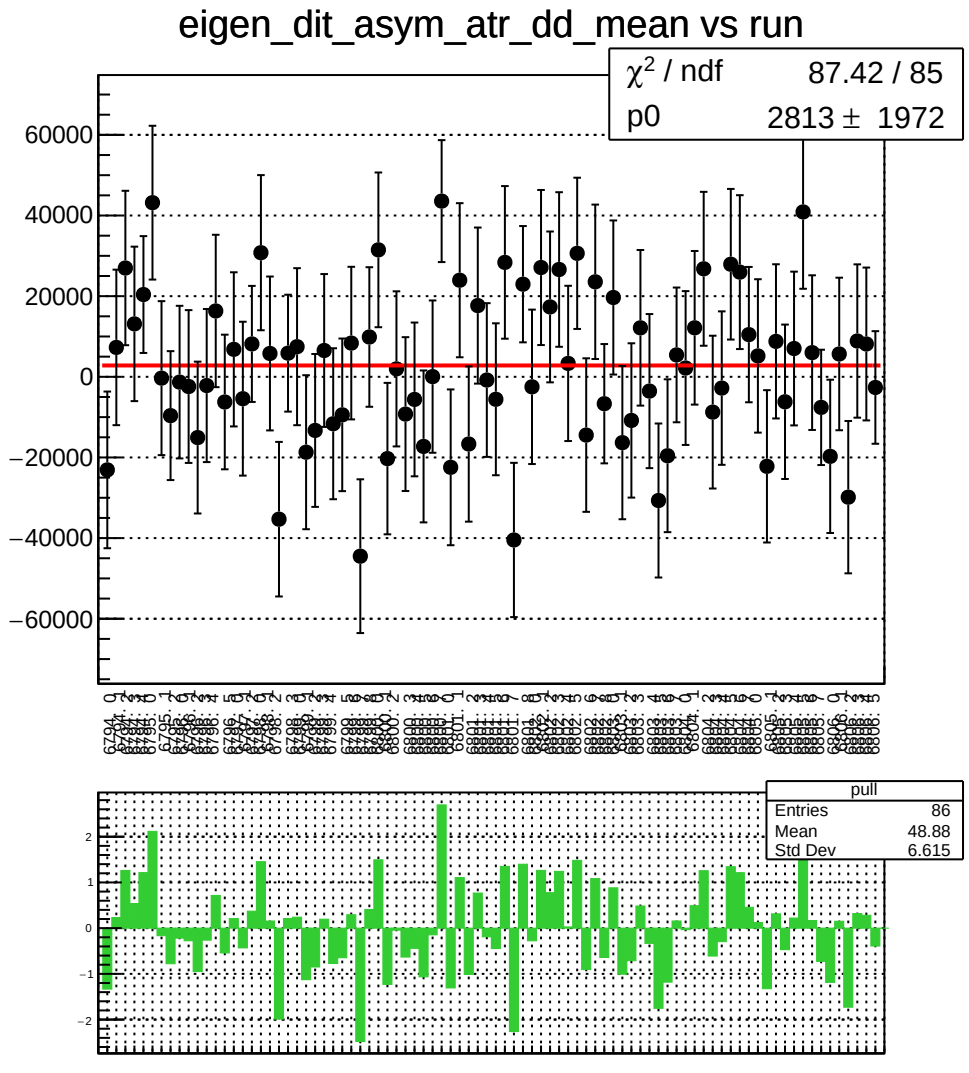

pull1D
Entries 86
Mean −0.01179
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

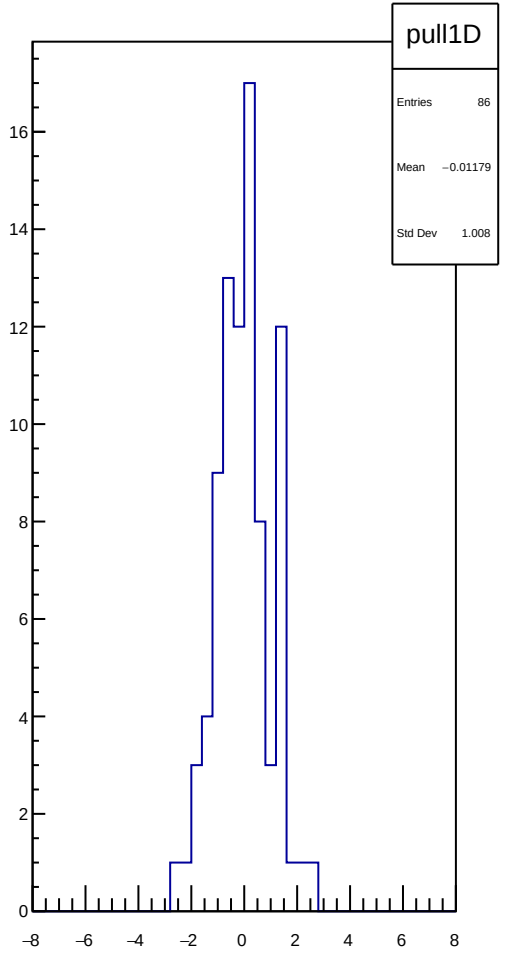

dit_asym_atr_dd_rms vs run
χ^2 / ndf 104.9 / 85
p0 1808 ± 1.394
1860
1840
1820
1800
1780
1760

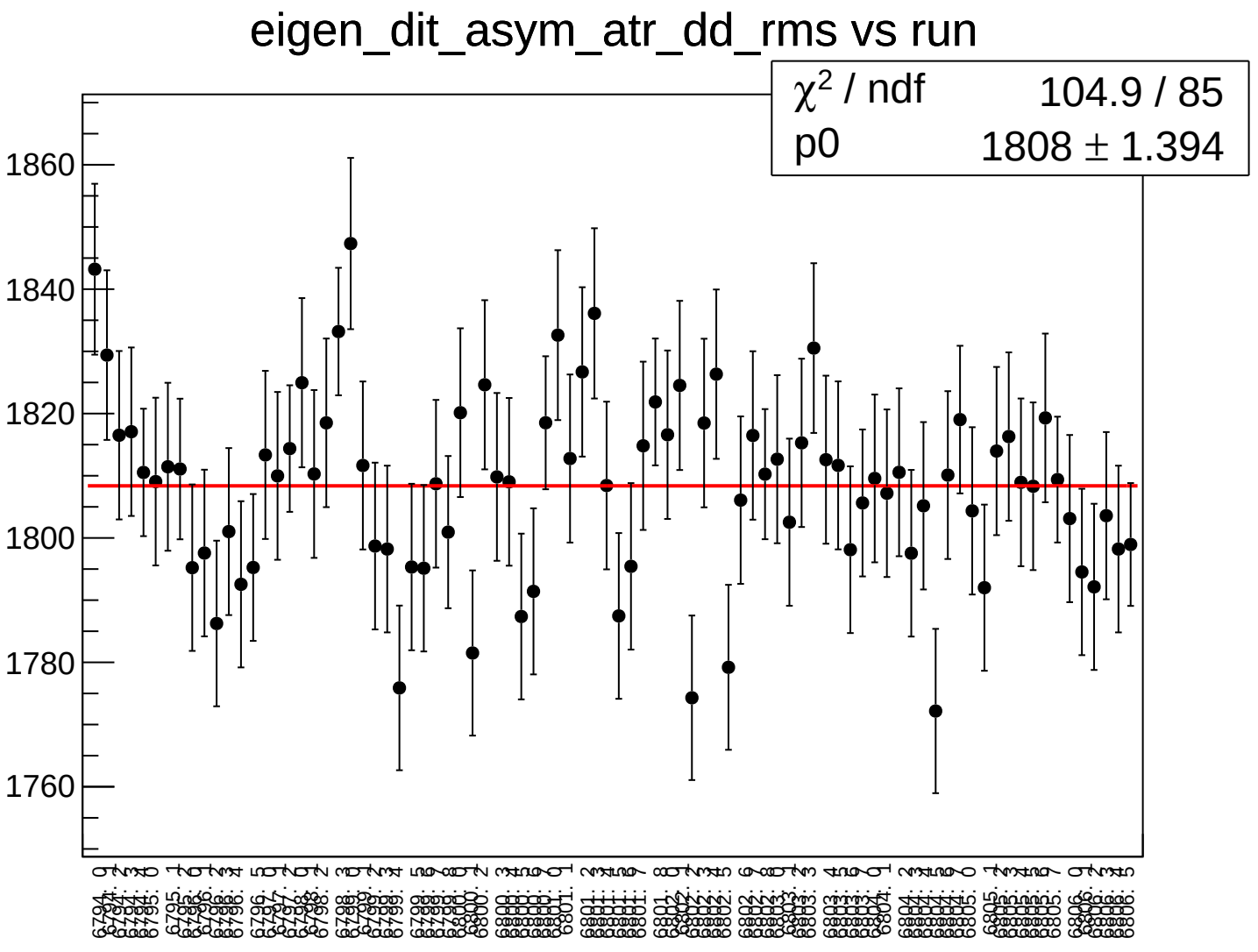

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 80.82 / 85
p0 2480 ± 3765
150
100
50
0
−50
−100
pull
Entries 86
Mean −97.84
Std Dev 0
3
2
1
0
−1
−2

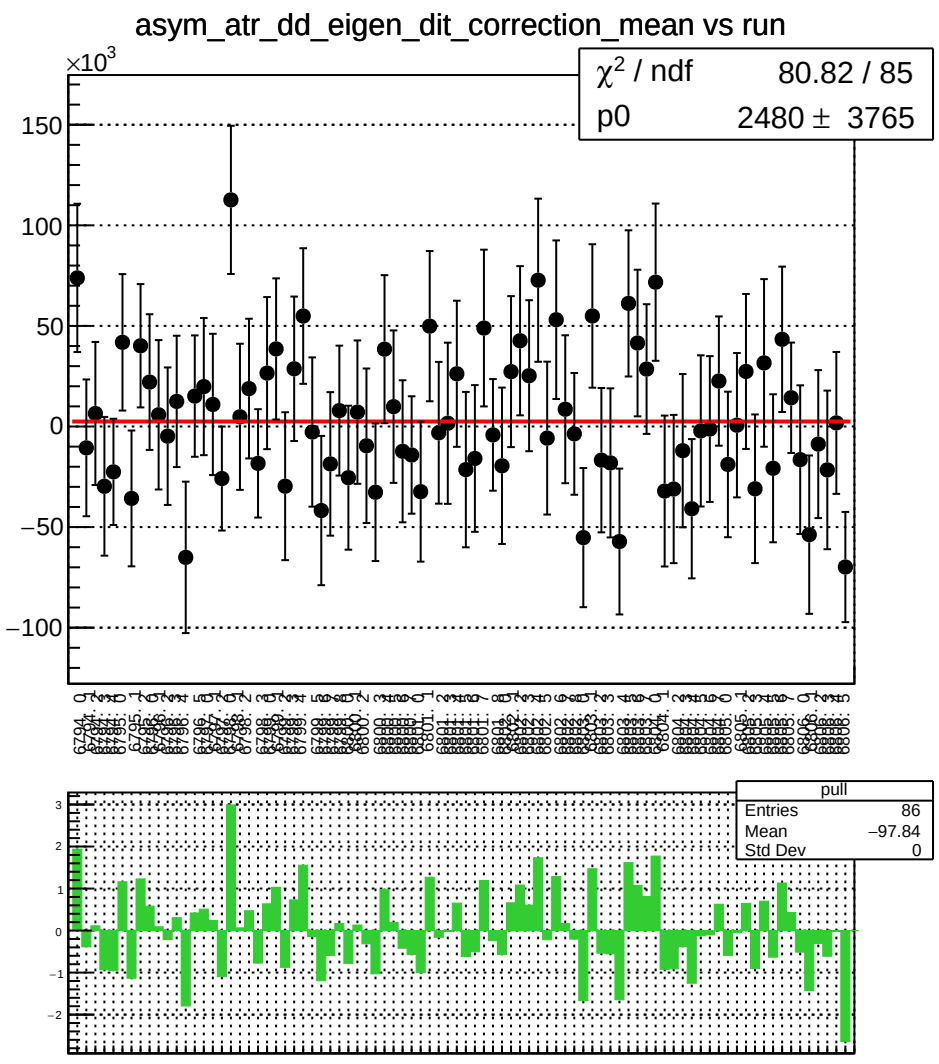

pull1D
Entries 86
Mean 0.02255
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

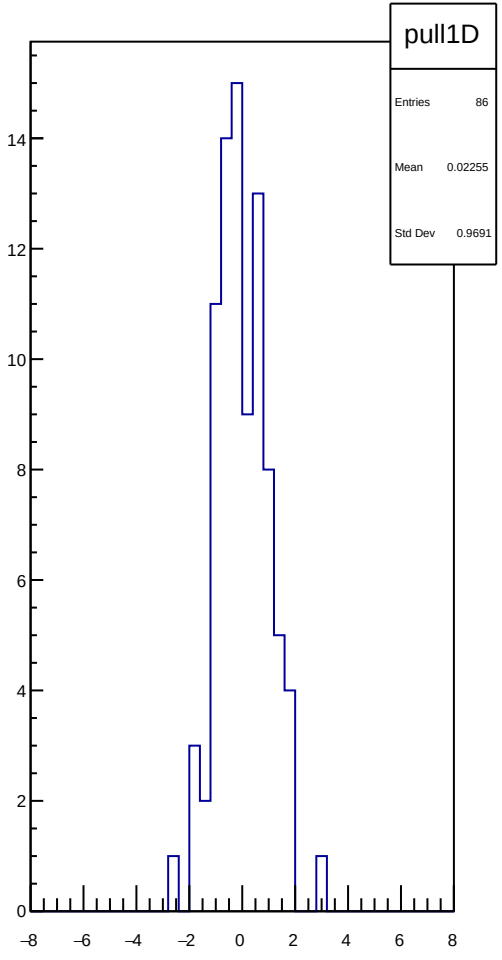

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 3468 / 85
p0 3449 ± 2.662
4000
3800
3600
3400
3200
3000

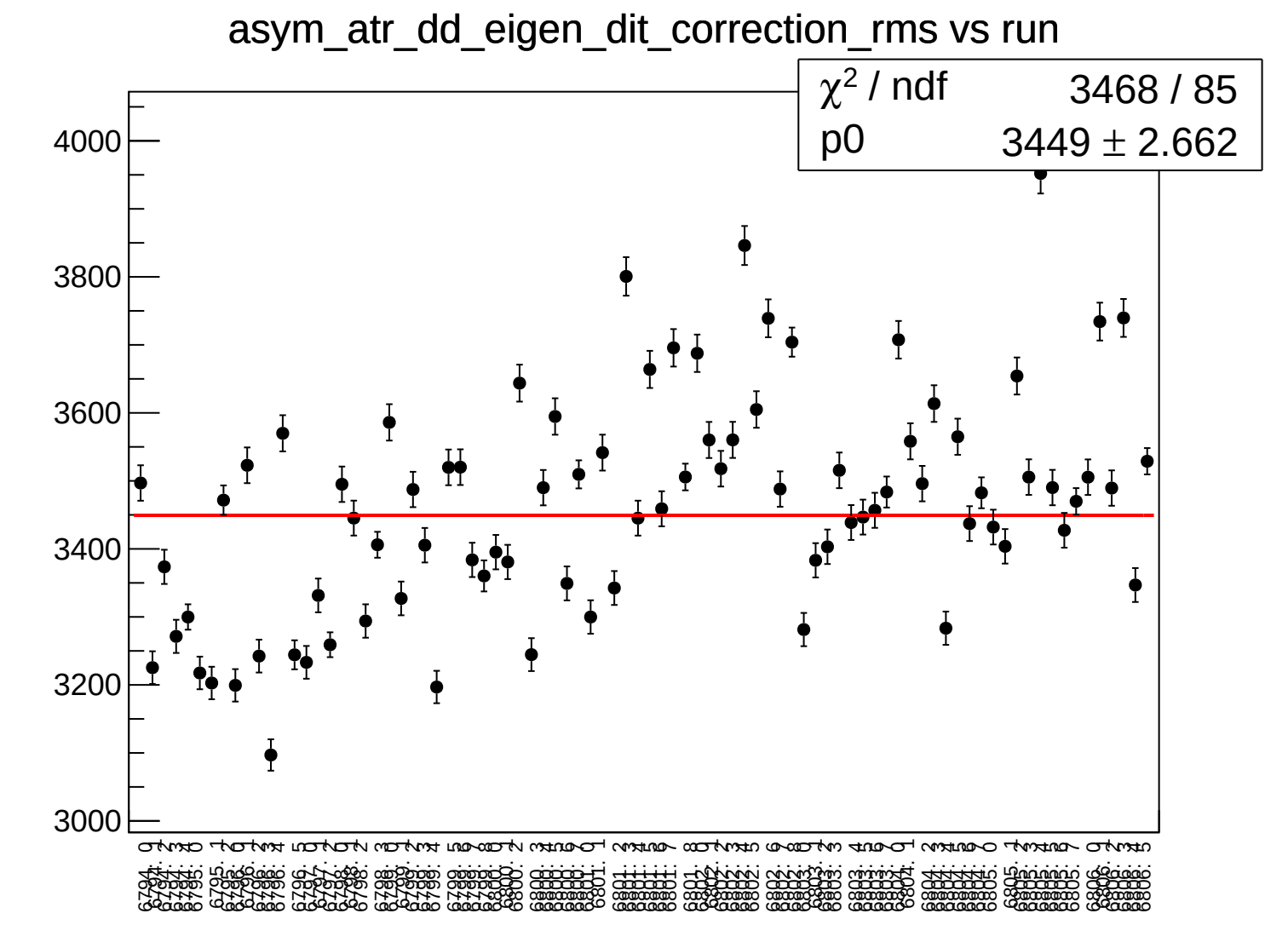

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 87.42 / 85
p0 2813 ± 1972
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 48.88
Std Dev 6.615
2
1
0
−1
−2

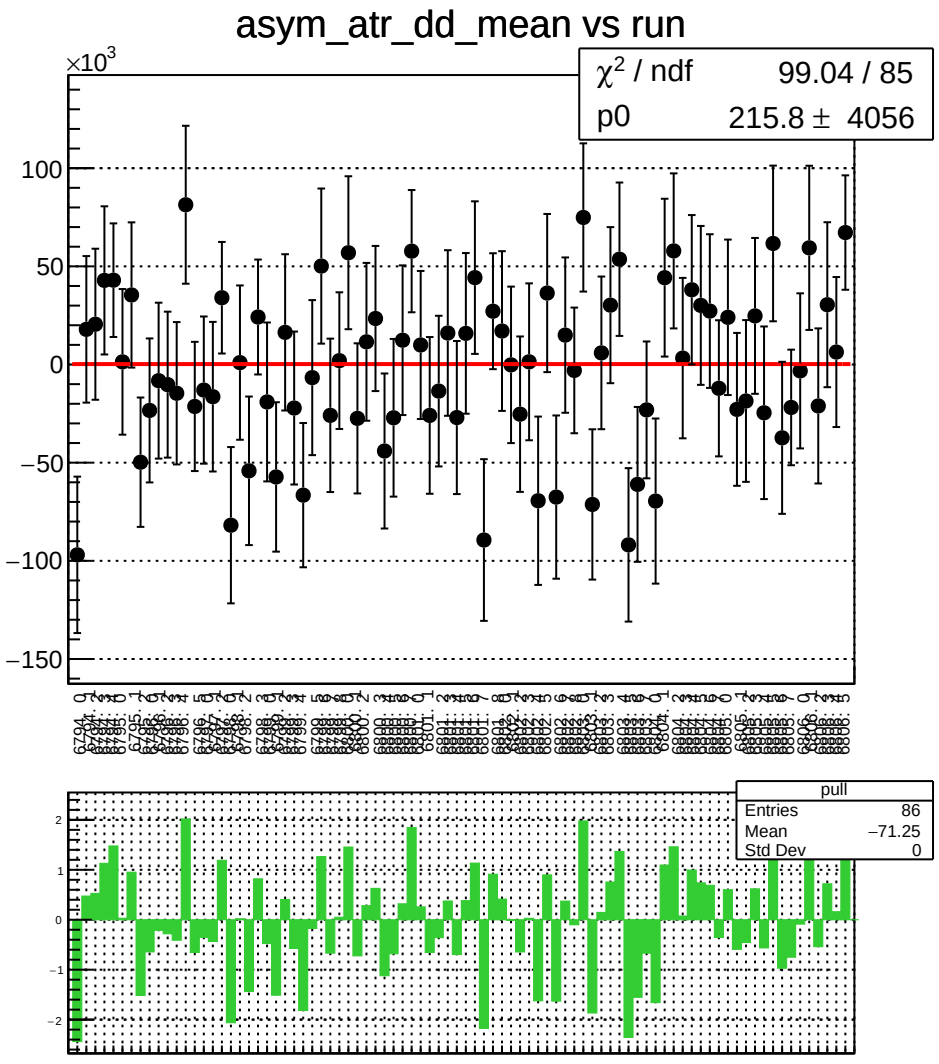

pull1D
Entries 86
Mean −0.01179
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

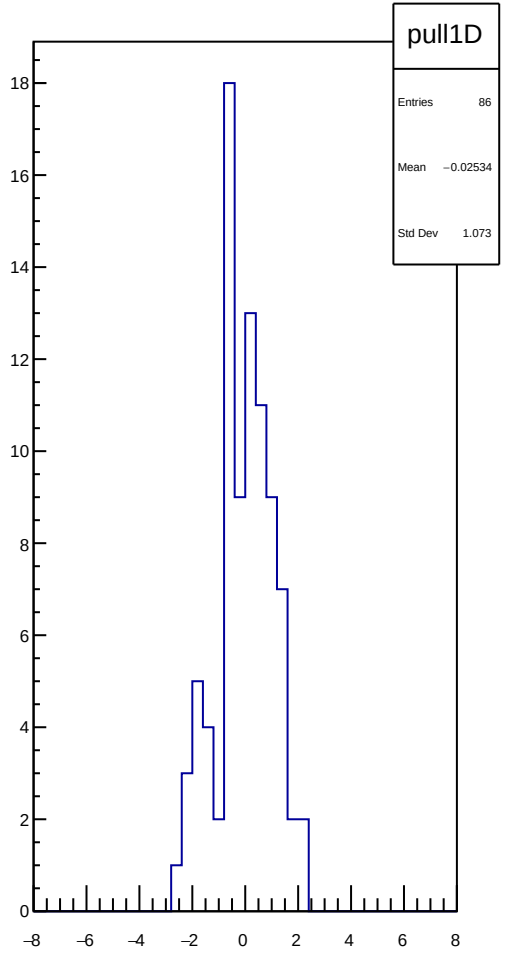

eigen_dit_asym_atr_dd_rms vs run
χ^2 / ndf 104.9 / 85
p0 1808 ± 1.394
1860
1840
1820
1800
1780
1760

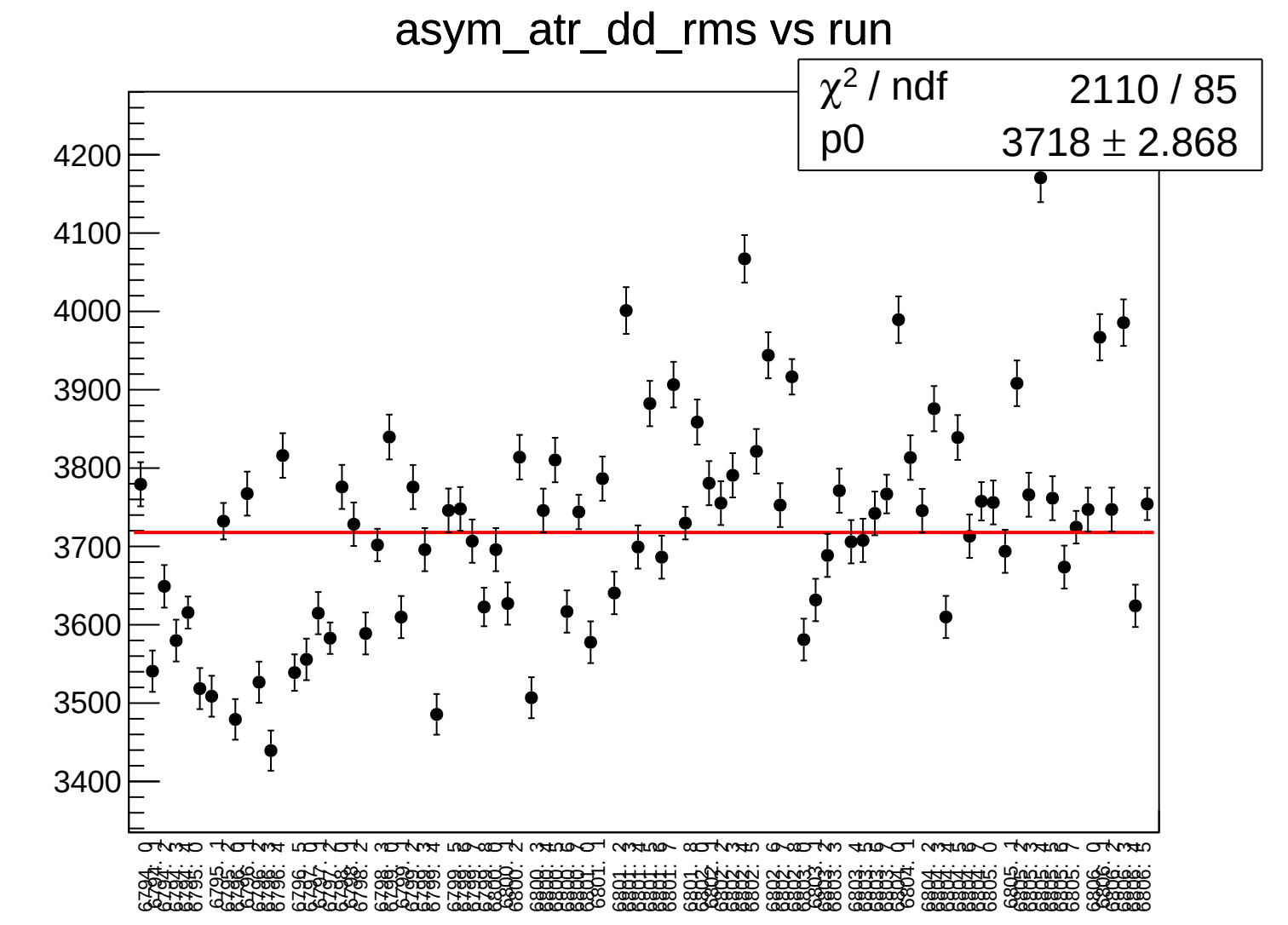

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 80.82 / 85
p0 2480 ± 3765
150
100
50
0
−50
−100
pull
Entries 86
Mean −97.84
Std Dev 0
3
2
1
0
−1
−2

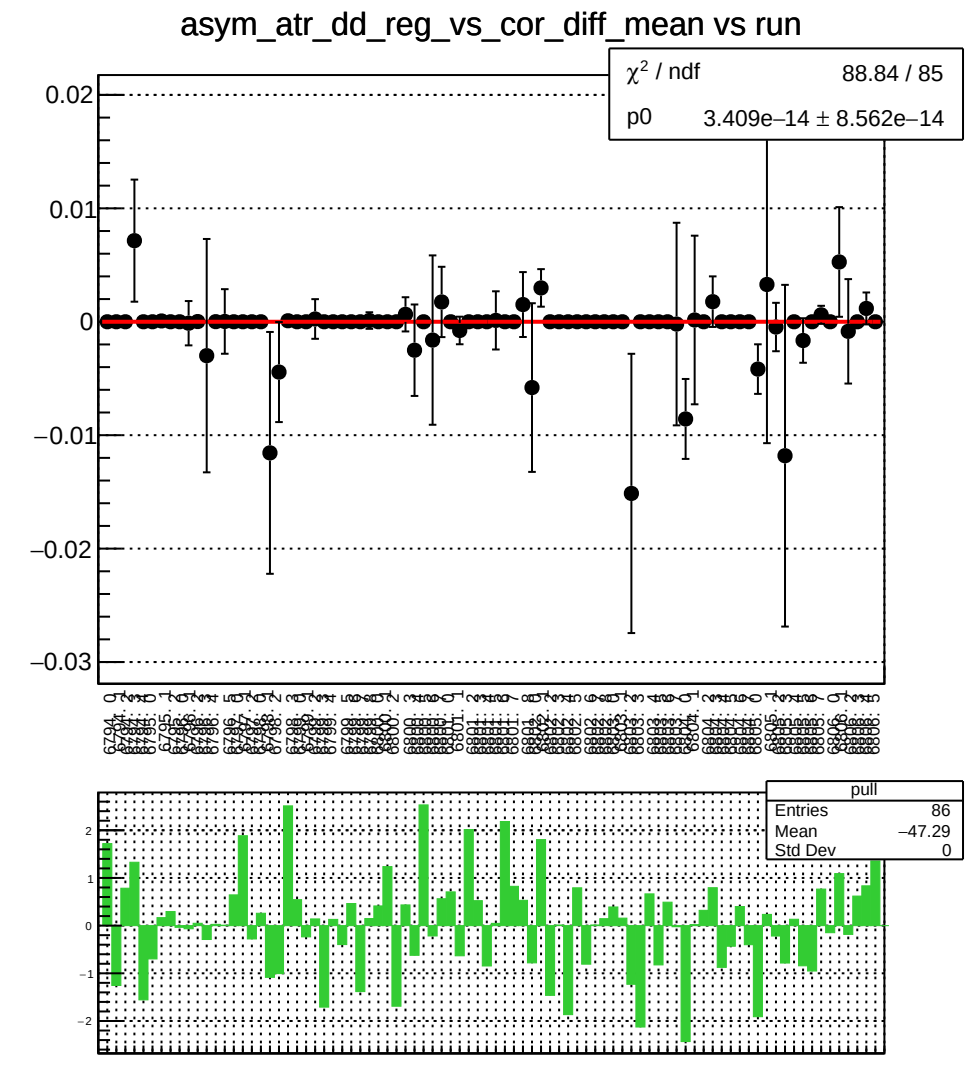

pull1D
Entries 86
Mean 0.02255
Std Dev 0.9691
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

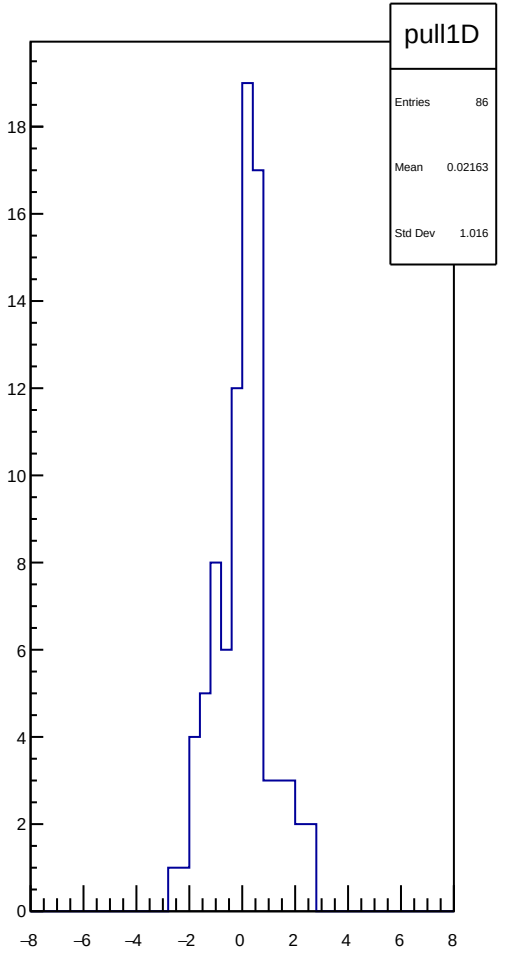

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 3468 / 85
p0 3449 ± 2.662
4000
3800
3600
3400
3200
3000

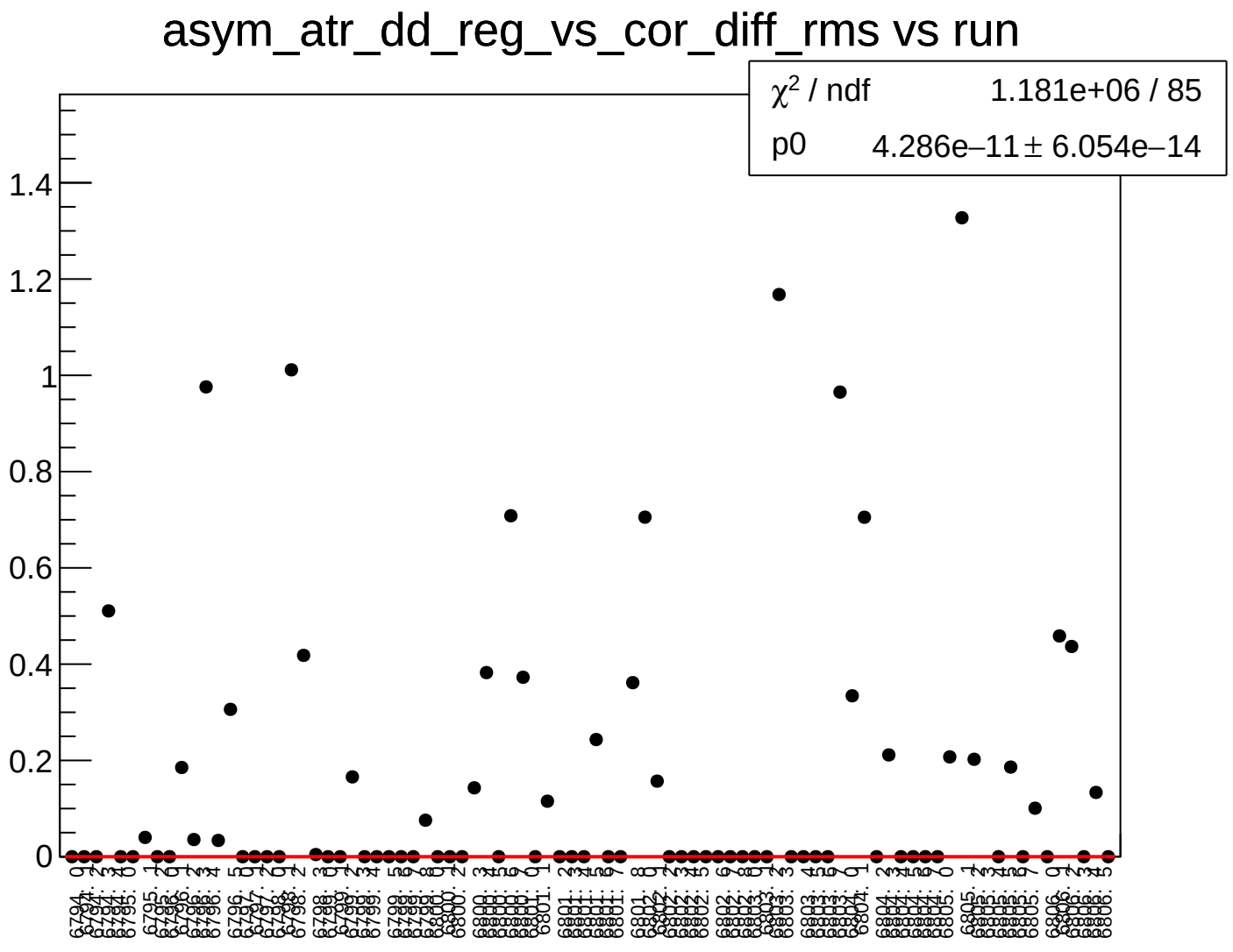

asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 99.04 / 85
p0 215.8 ± 4056
100
50
0
−50
−100
−150
pull
Entries 86
Mean −71.25
Std Dev 0
2
1
0
−1
−2

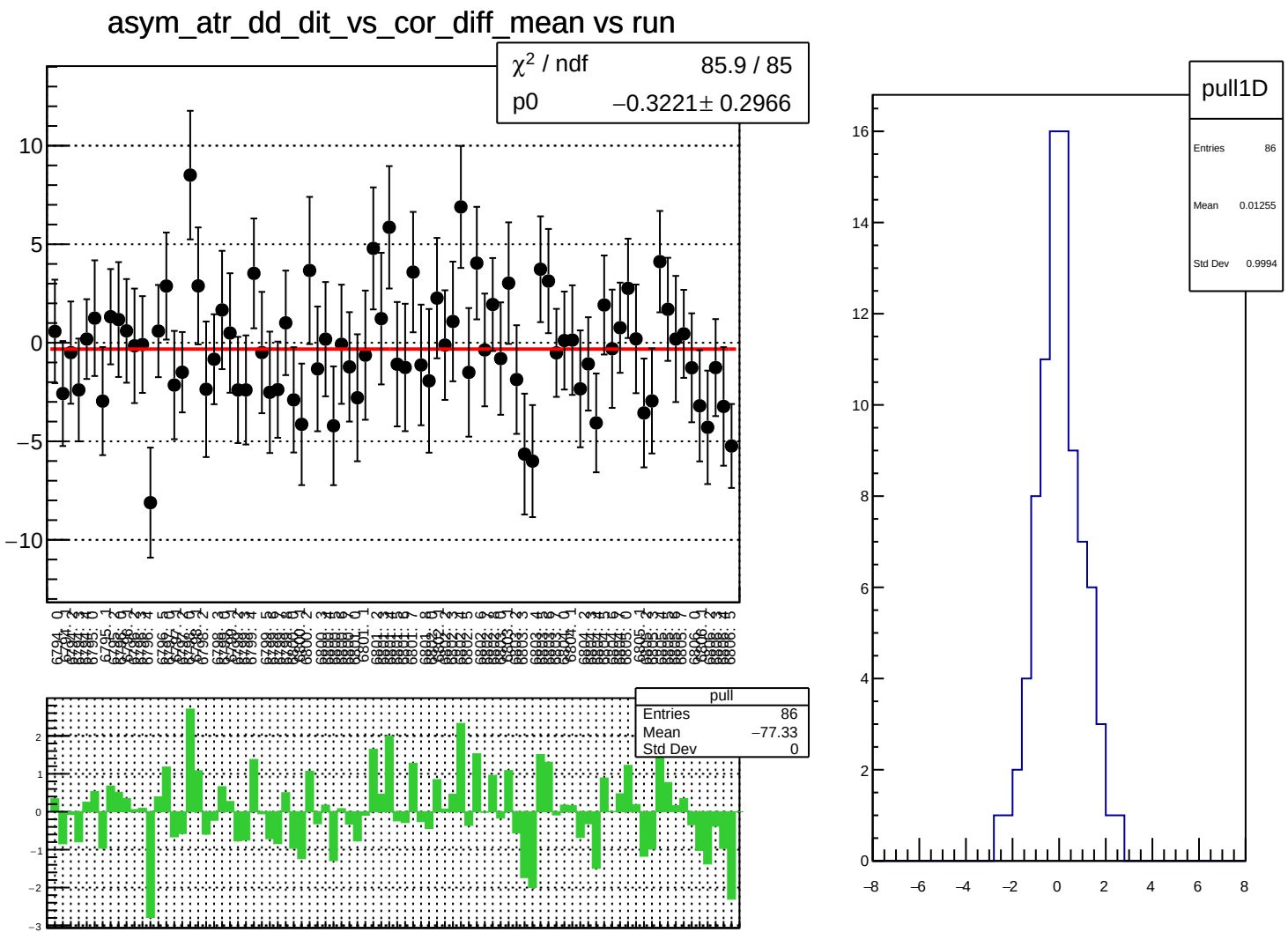

pull1D
Entries 86
Mean −0.02534
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

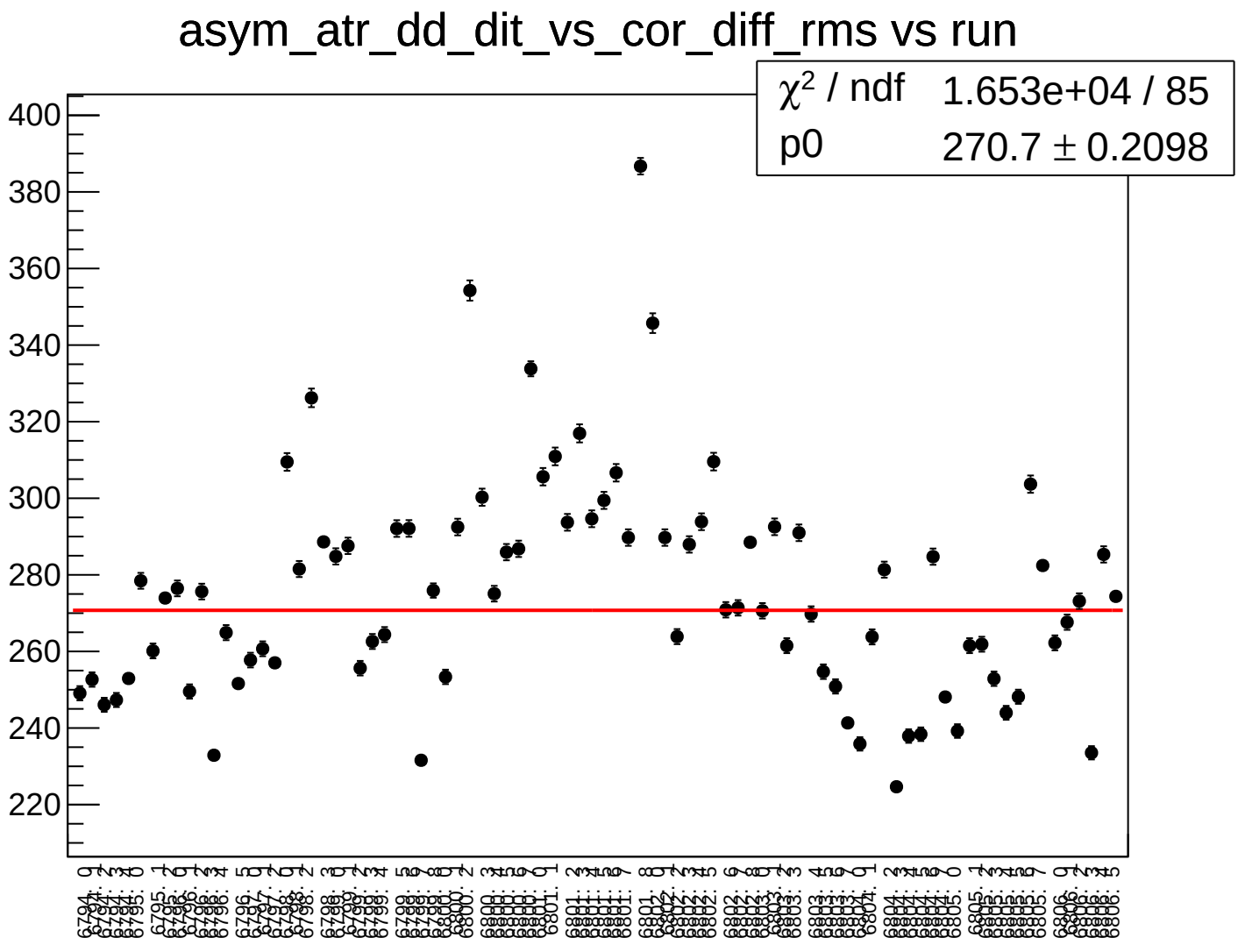

asym_atr_dd_rms vs run
χ^2 / ndf 2110 / 85
p0 3718 ± 2.868
4200
4100
4000
3900
3800
3700
3600
3500
3400

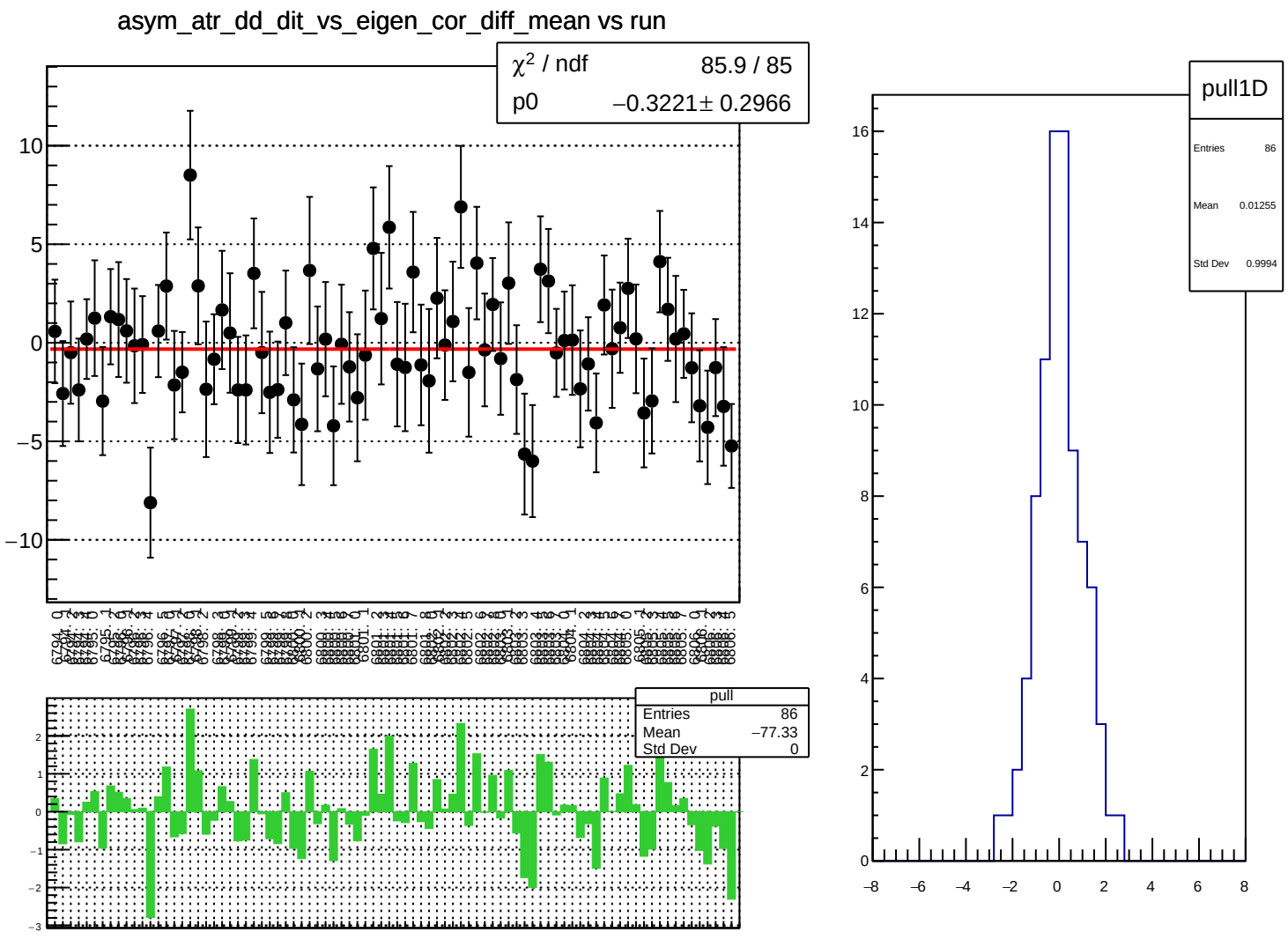

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.84 / 85
p0 3.409e−14 ± 8.562e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean −47.29
Std Dev 0
2
1
0
−1
−2

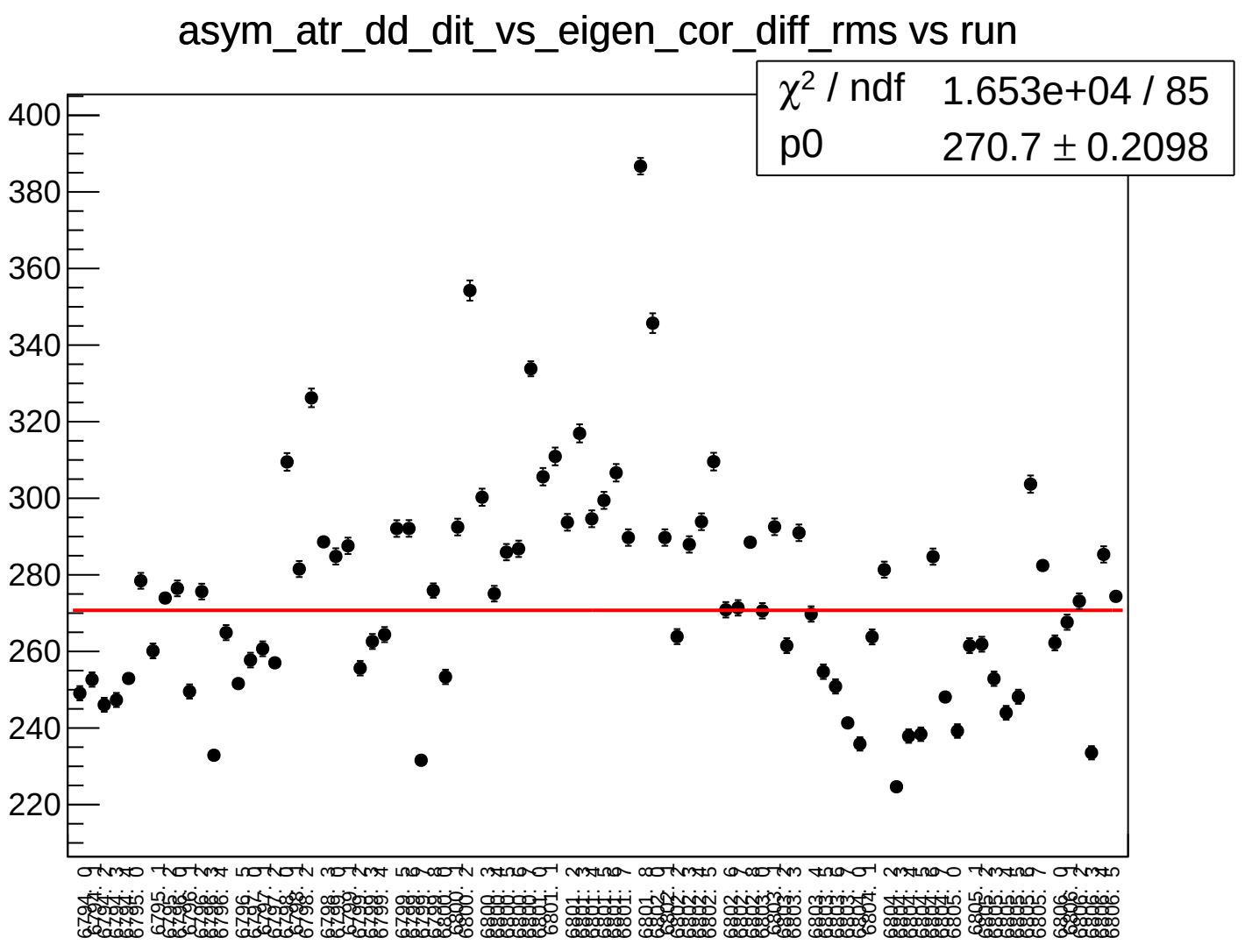

pull1D
Entries 86
Mean 0.02163
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

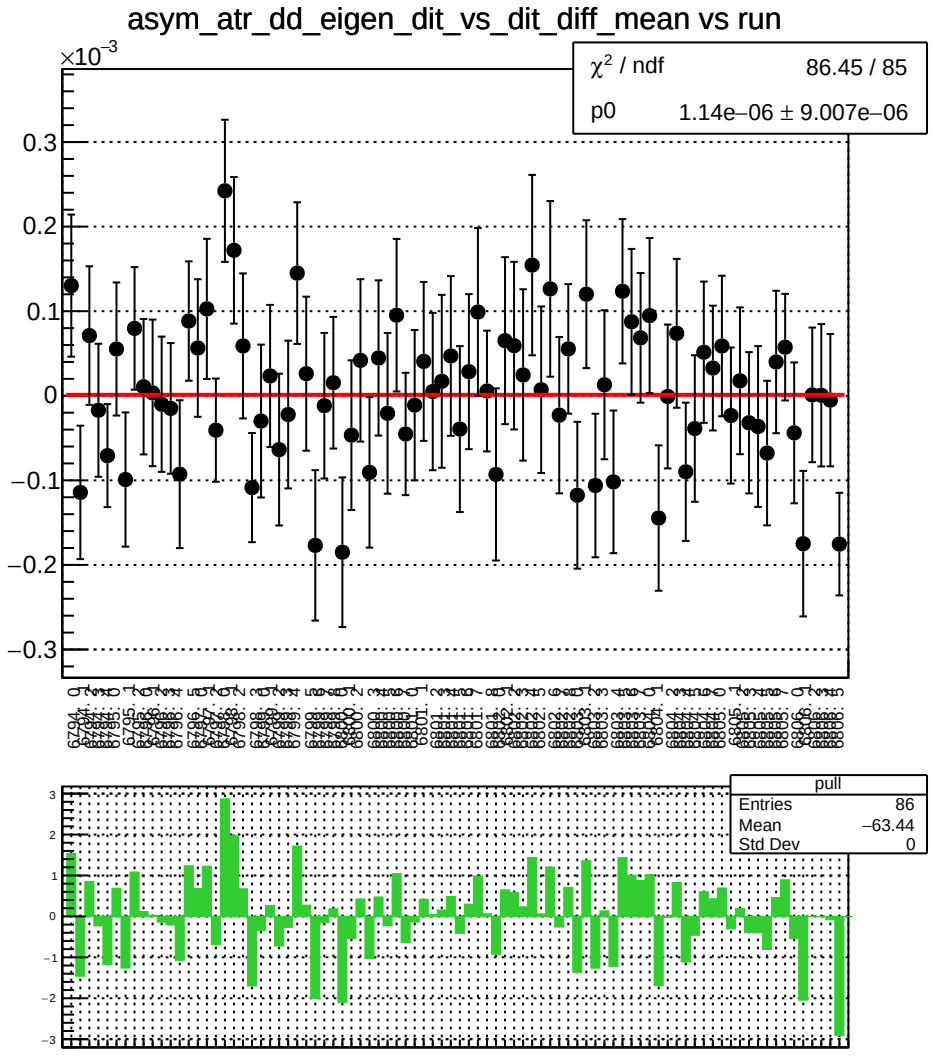

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.181e+06 / 85
p0 4.286e−11 ± 6.054e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

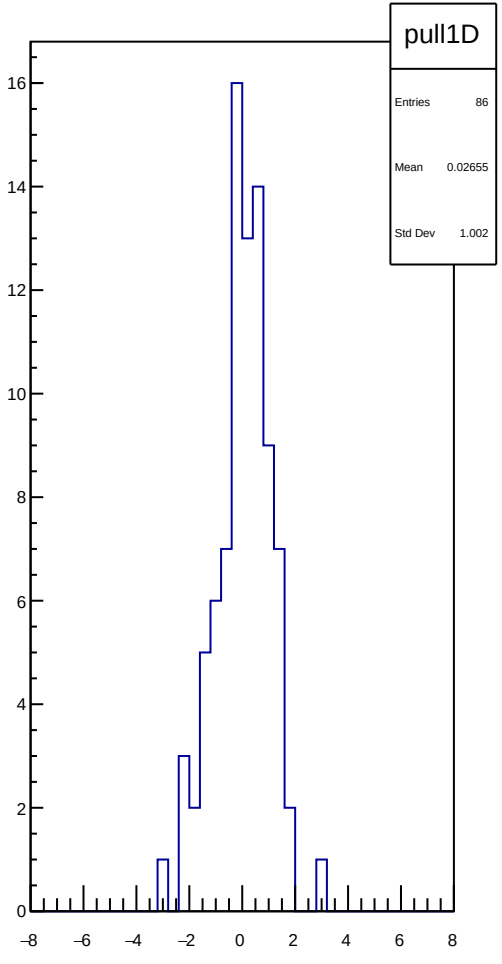

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 85
p0 −0.3221± 0.2966
pull
Entries 86
Mean −77.33
Std Dev 0
pull1D
Entries 86
Mean 0.01255
Std Dev 0.9994

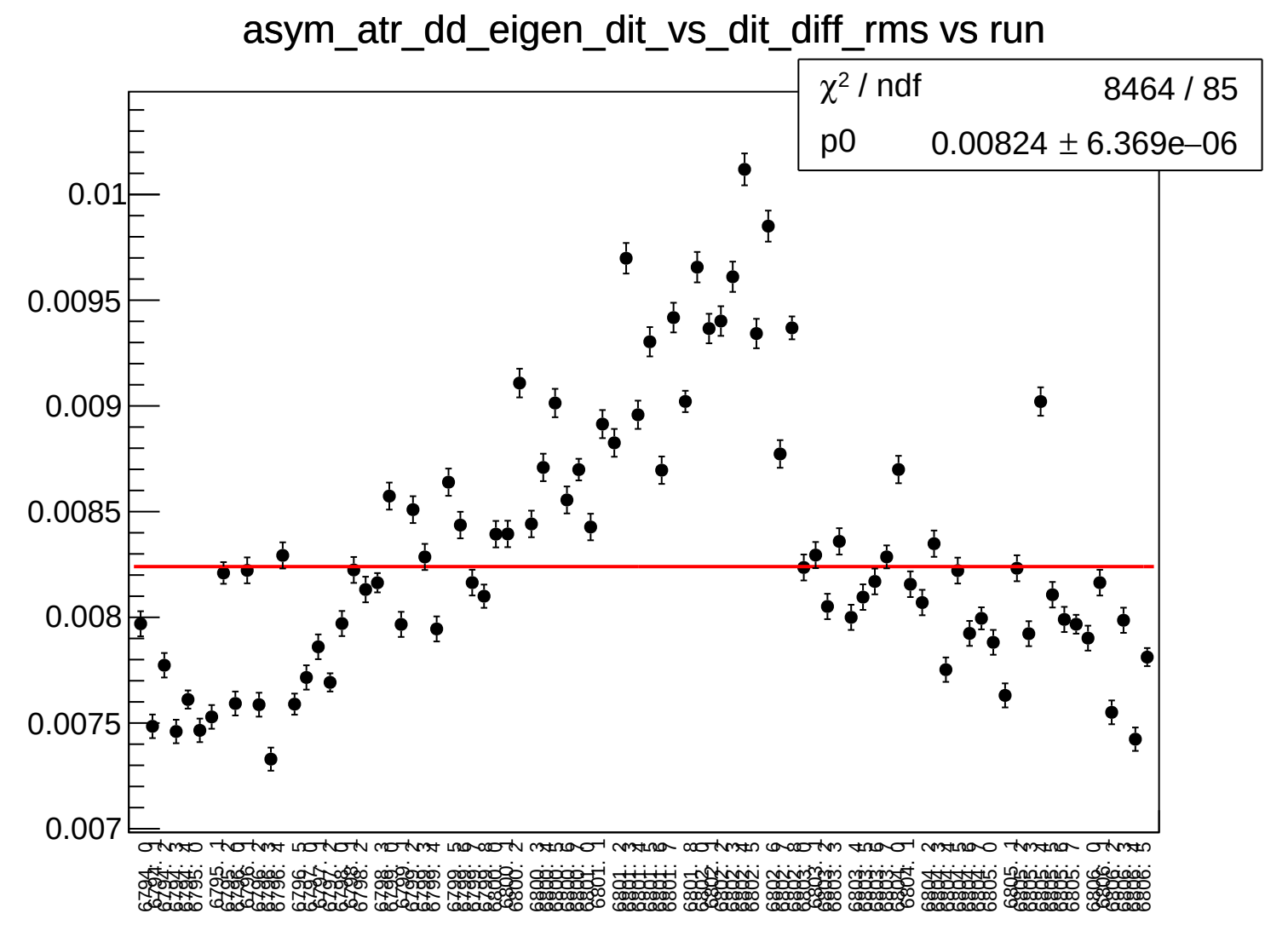

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 85
p0 270.7 ± 0.2098
400
380
360
340
320
300
280
260
240
220

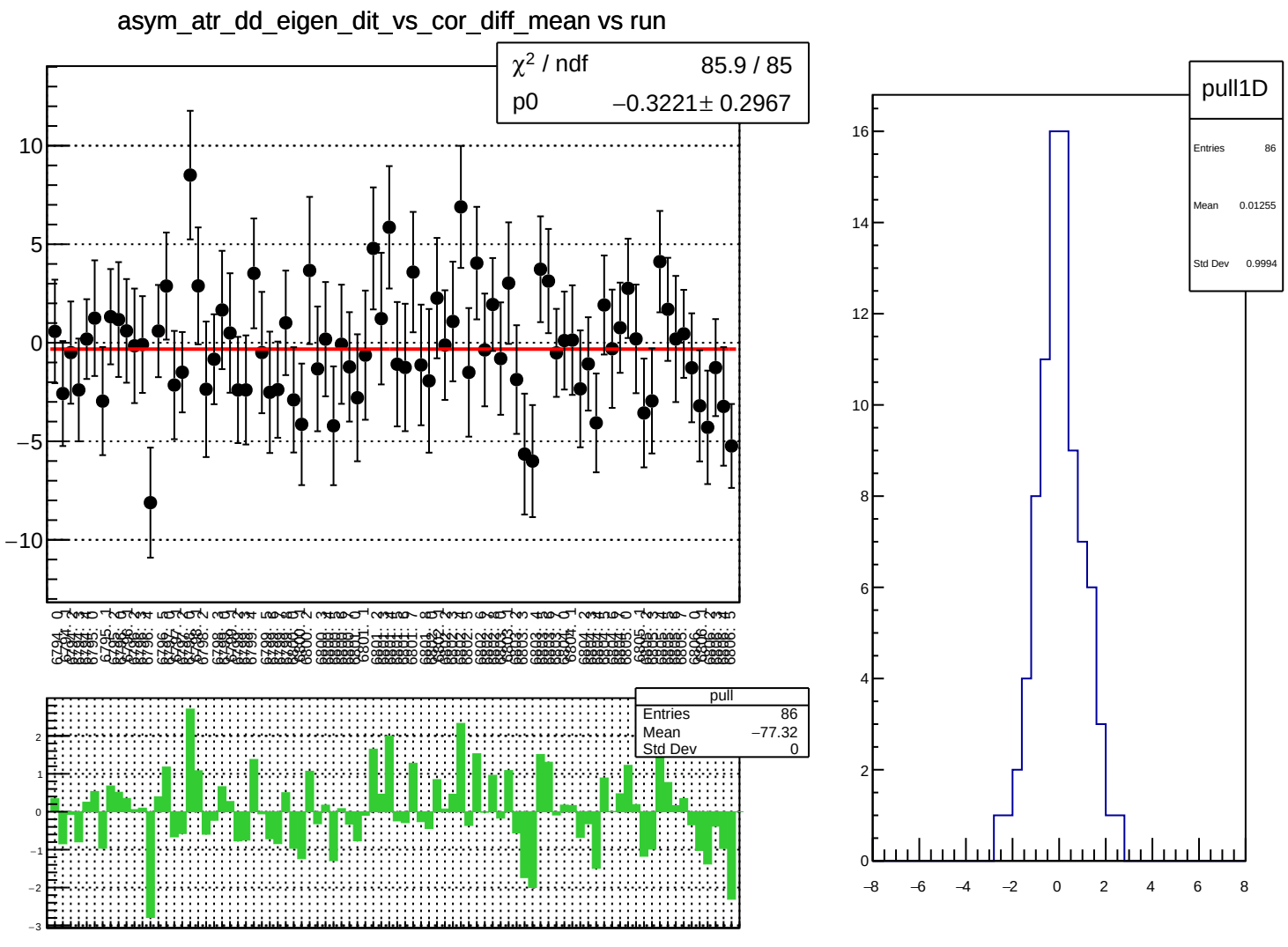

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 85
p0 −0.3221± 0.2966
pull
Entries 86
Mean −77.33
Std Dev 0
pull1D
Entries 86
Mean 0.01255
Std Dev 0.9994

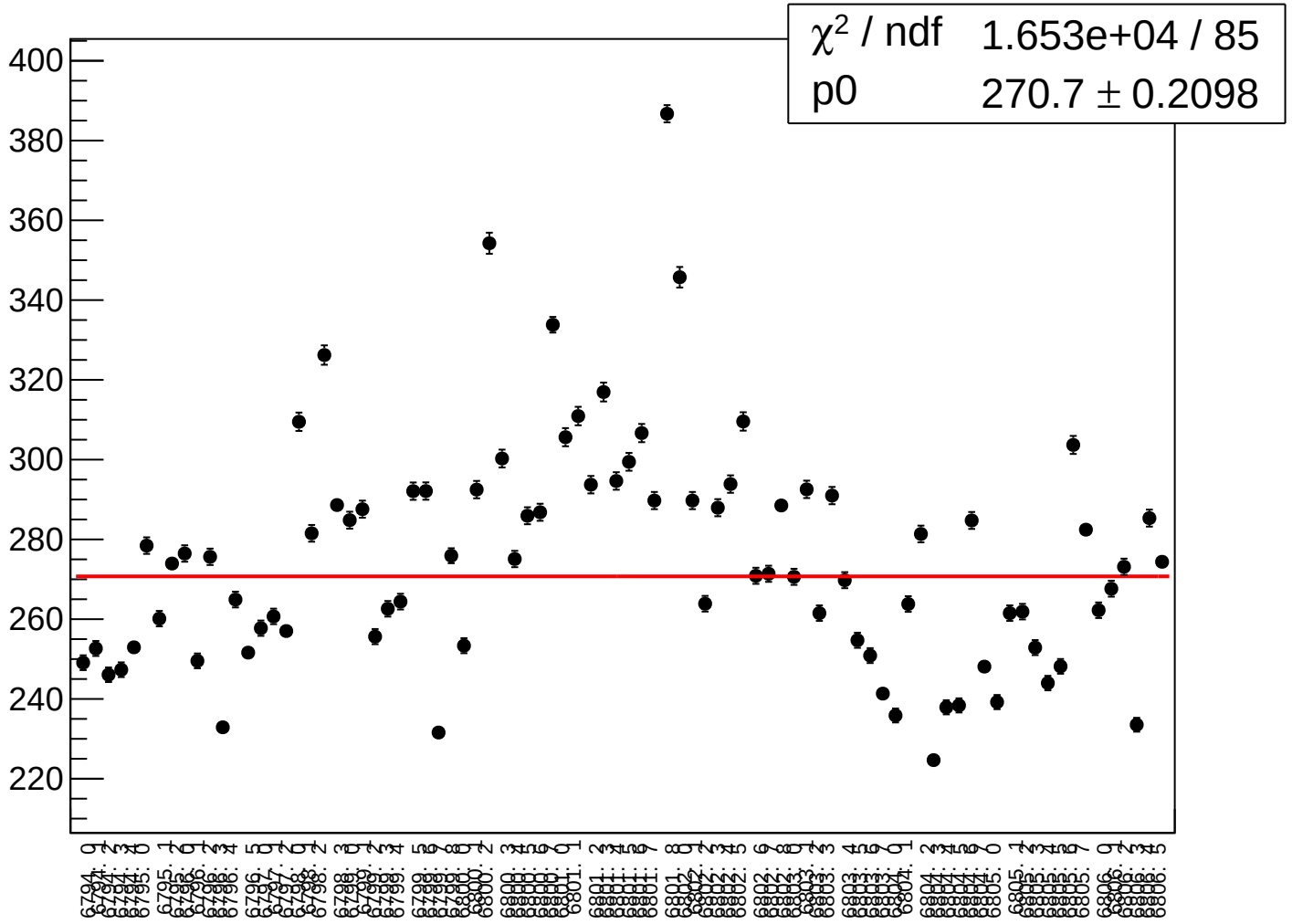

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 85
p0 270.7 ± 0.2098
400
380
360
340
320
300
280
260
240
220

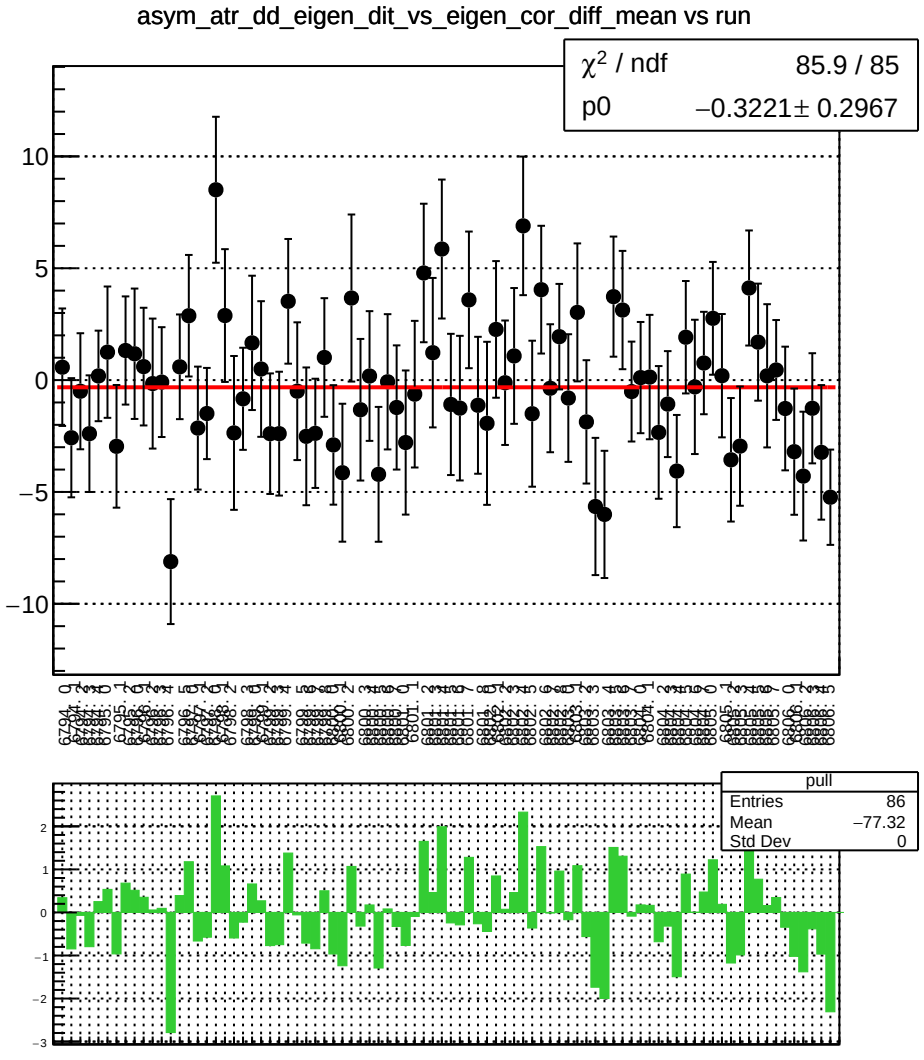

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.45 / 85
p0 1.14e−06 ± 9.007e−06
pull
Entries 86
Mean −63.44
Std Dev 0

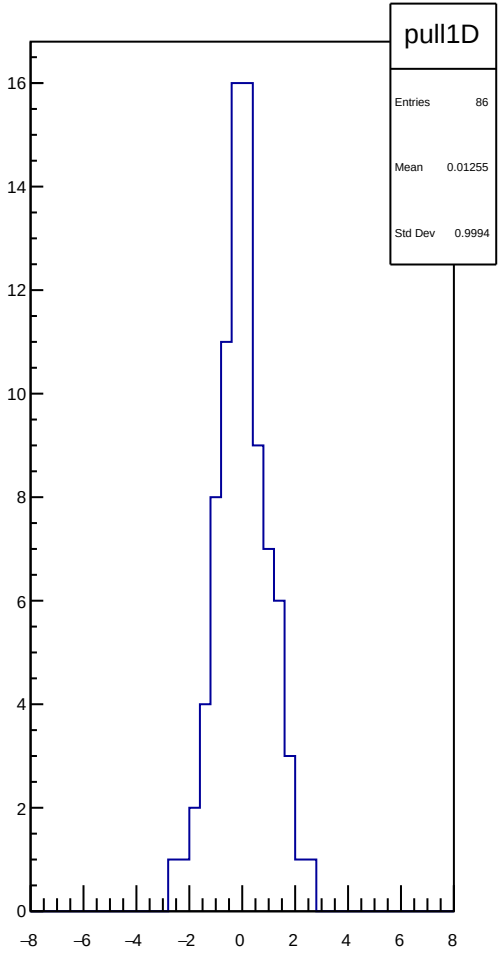

pull1D
Entries 86
Mean 0.02655
Std Dev 1.002

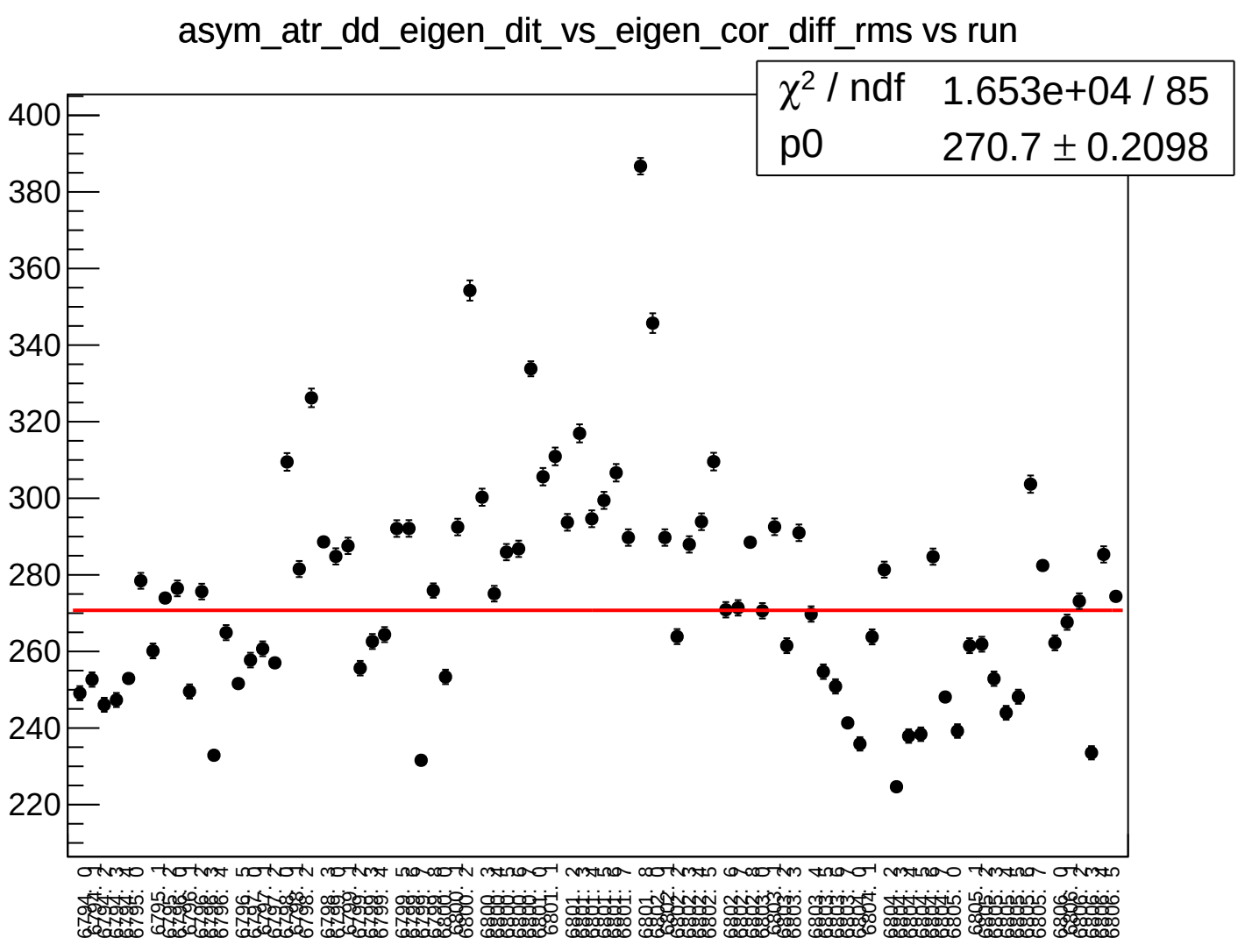

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8464 / 85
p0 0.00824 ± 6.369e–06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

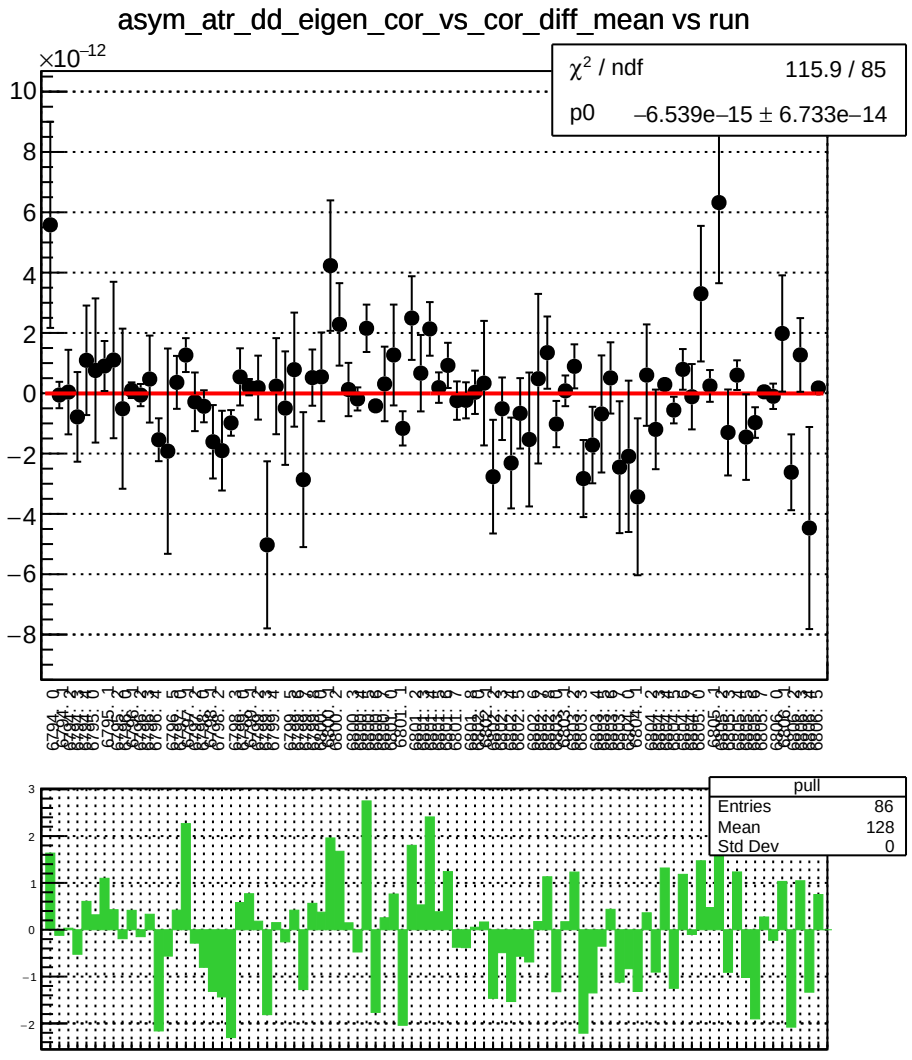

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.9 / 85
p0 −0.3221± 0.2967
pull
Entries 86
Mean −77.32
Std Dev 0
pull1D
Entries 86
Mean 0.01255
Std Dev 0.9994

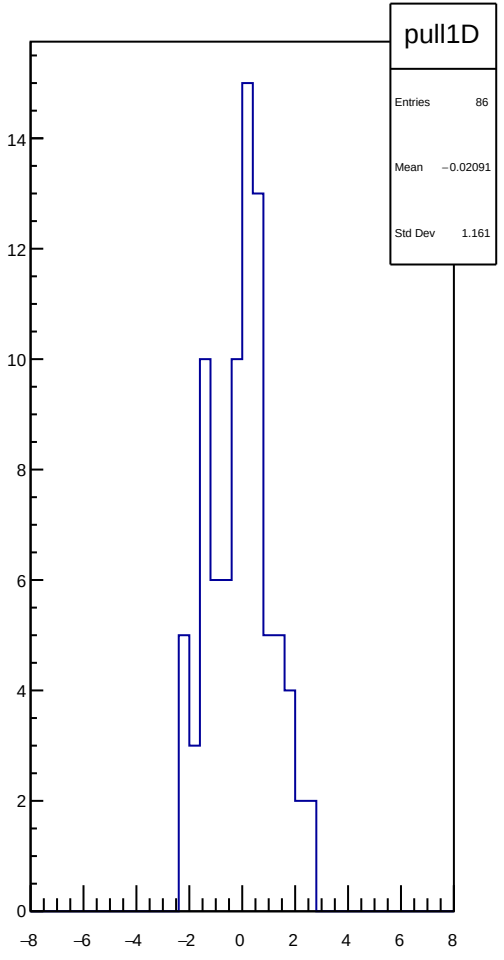

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 85
p0 270.7 ± 0.2098
400
380
360
340
320
300
280
260
240
220

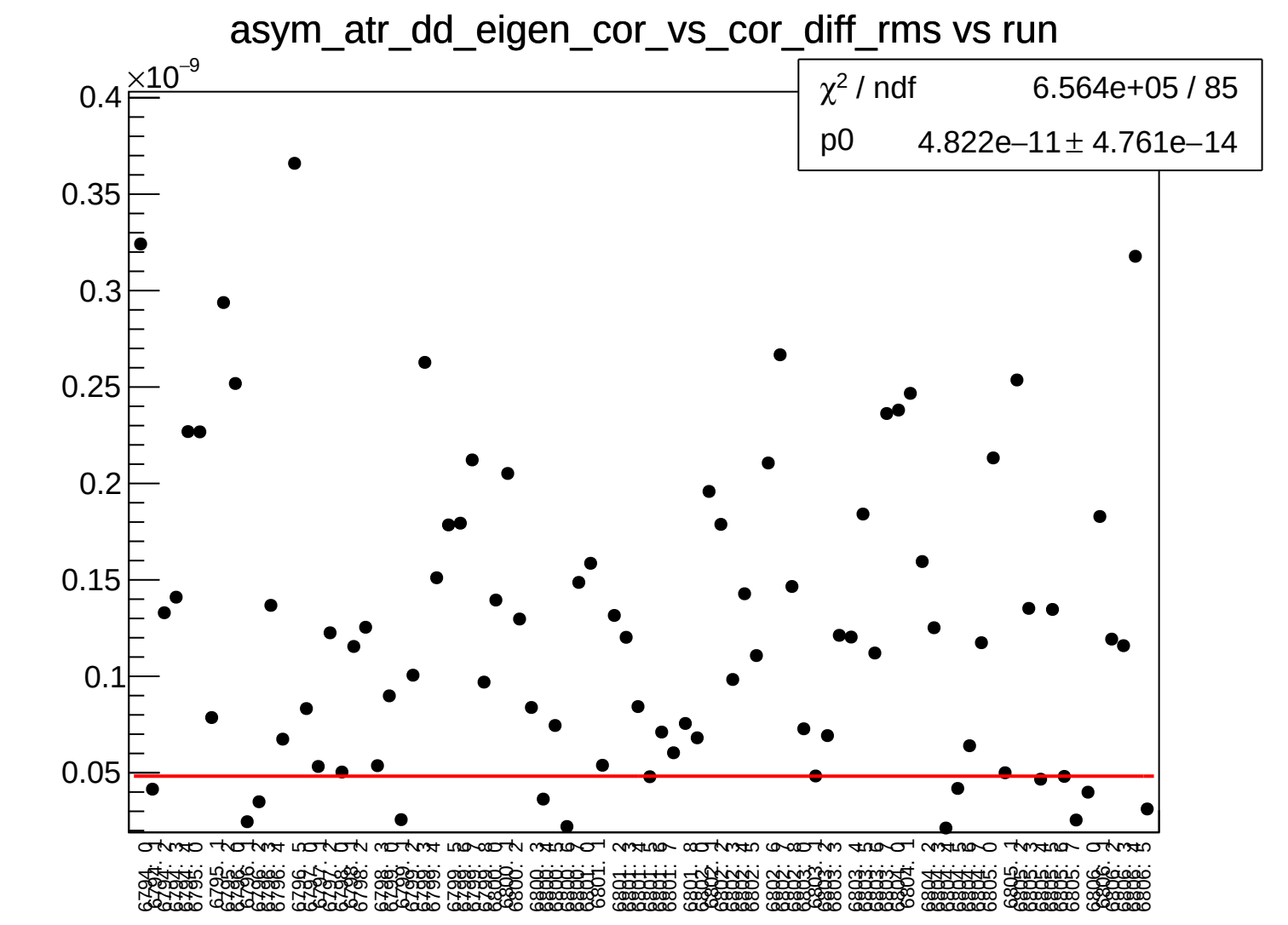

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.9 / 85
p0 −0.3221± 0.2967
pull
Entries 86
Mean −77.32
Std Dev 0

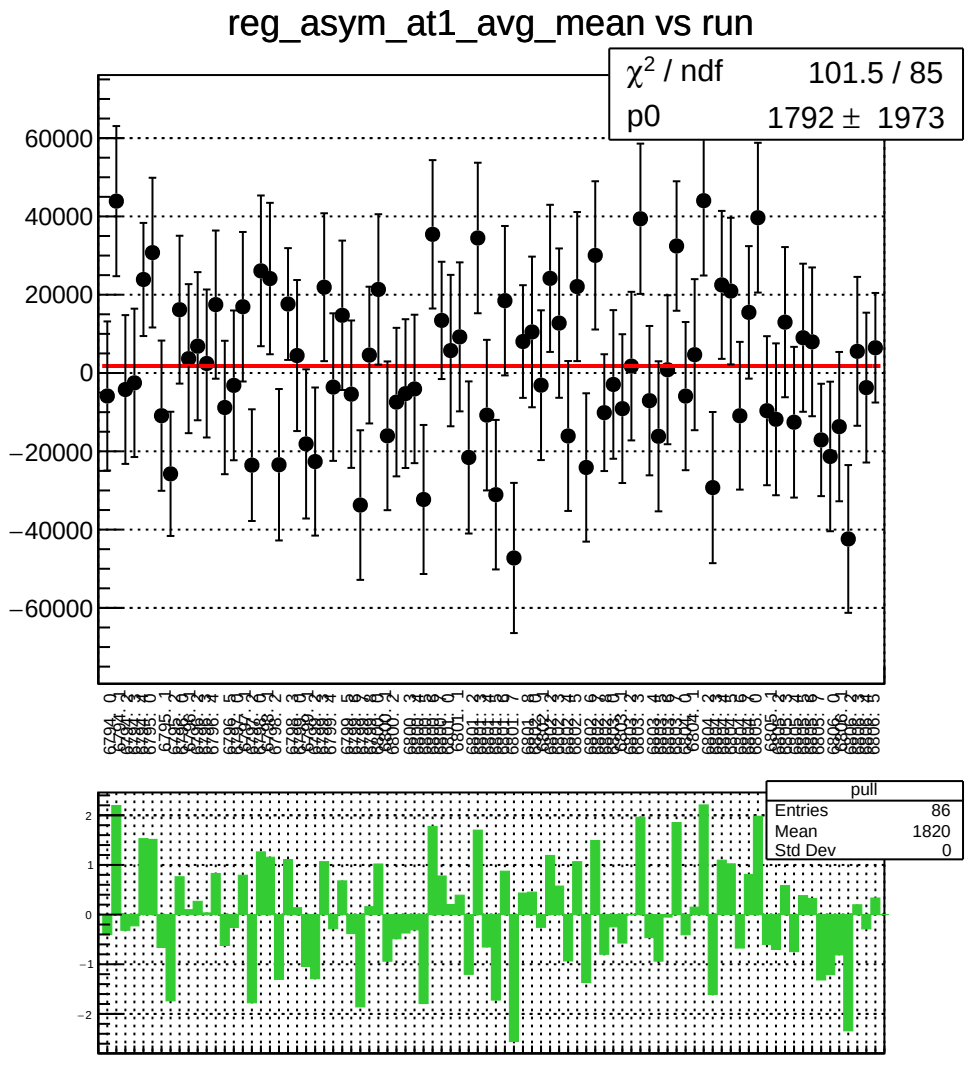

pull1D
Entries 86
Mean 0.01255
Std Dev 0.9994

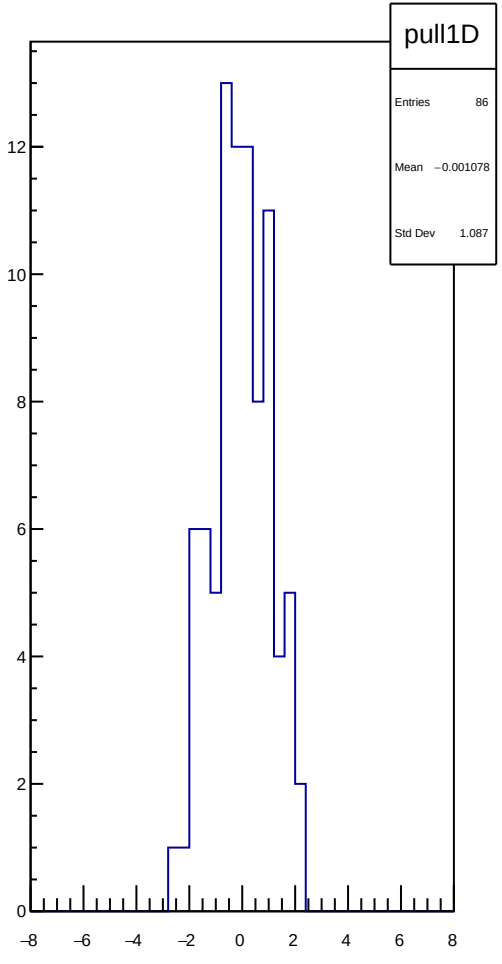

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.653e+04 / 85
p0 270.7 ± 0.2098
400
380
360
340
320
300
280
260
240
220

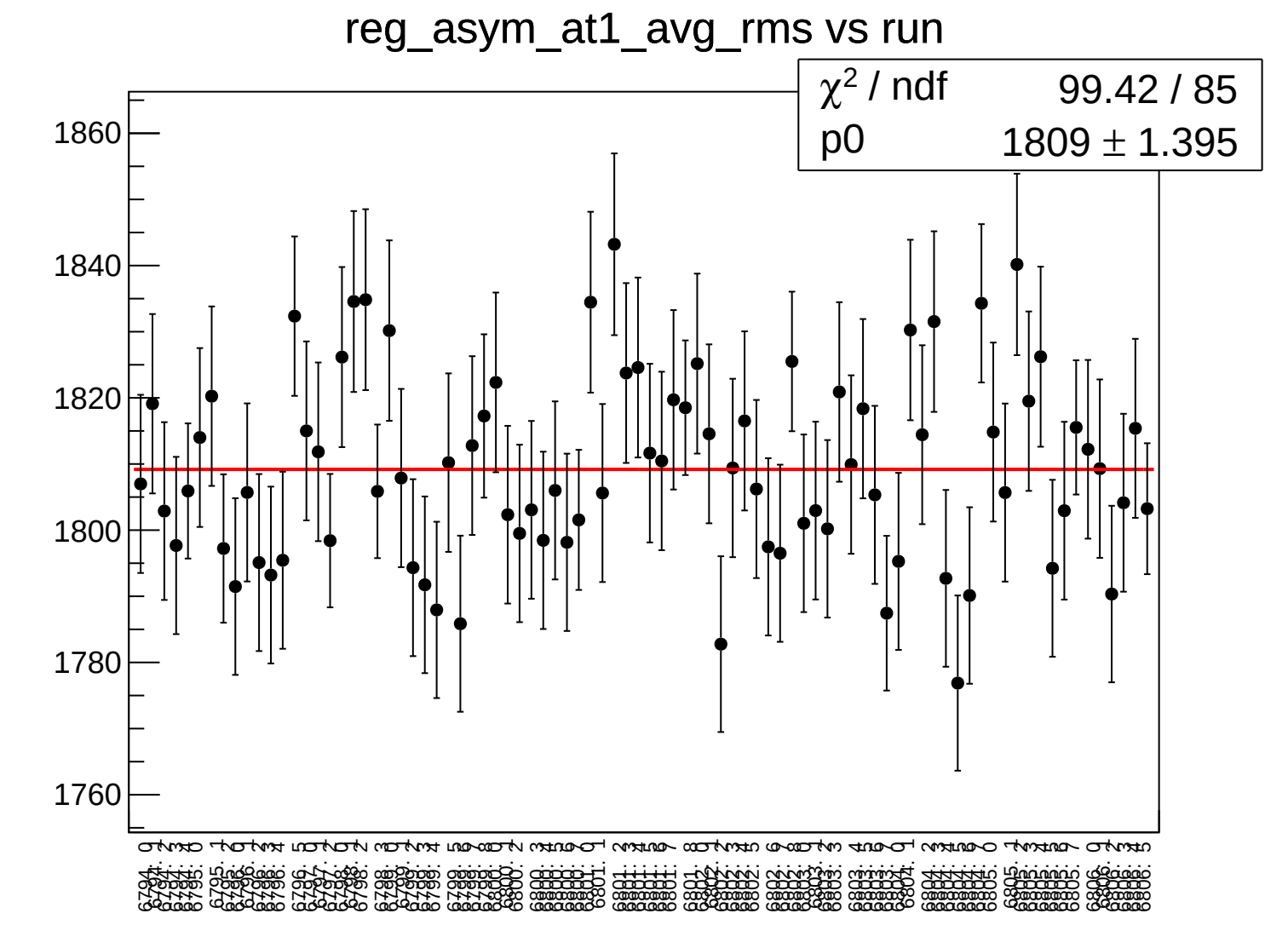

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.9 / 85
p0 −6.539e−15 ± 6.733e−14
pull
Entries 86
Mean 128
Std Dev 0

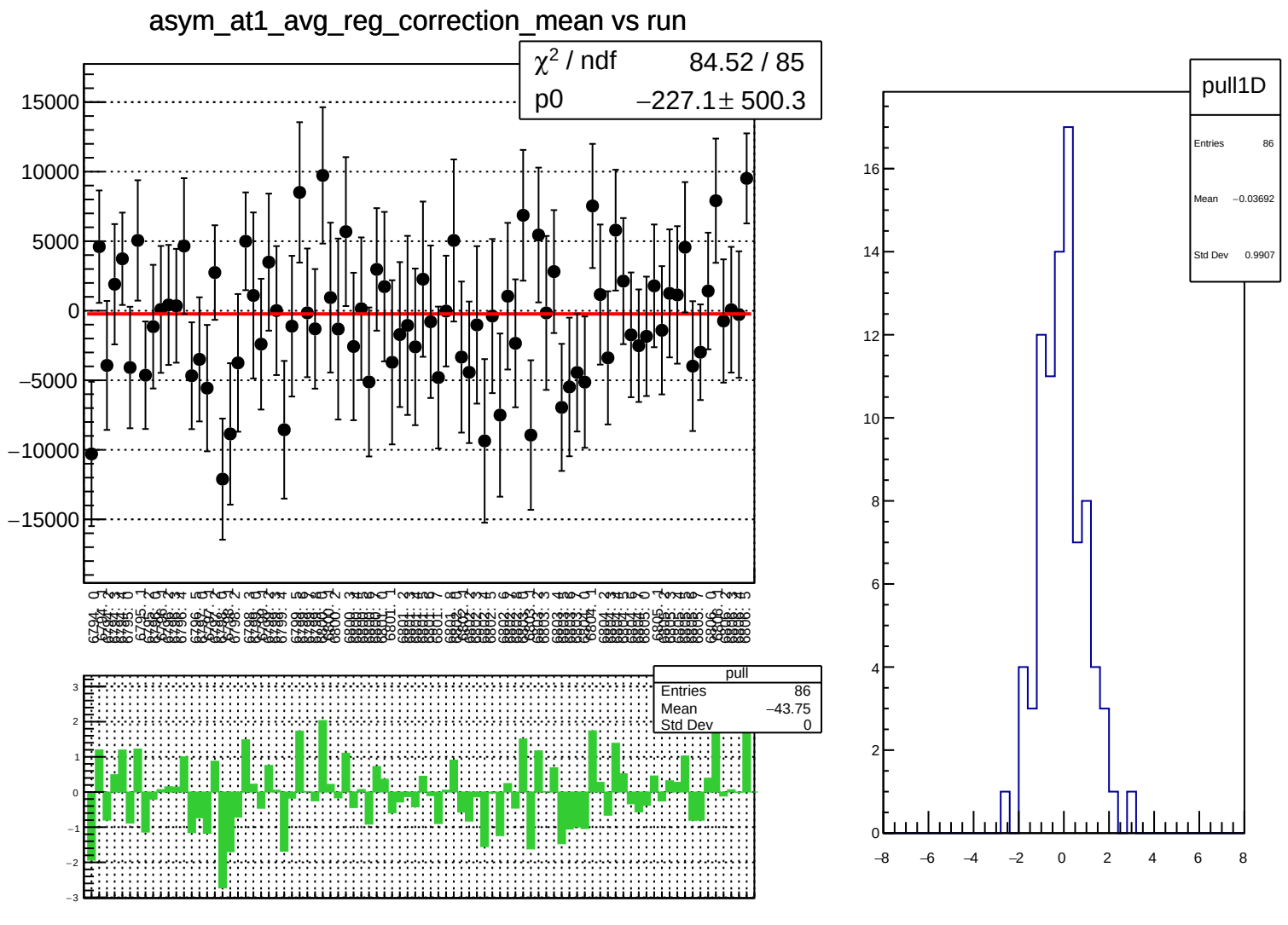

pull1D
Entries 86
Mean −0.02091
Std Dev 1.161

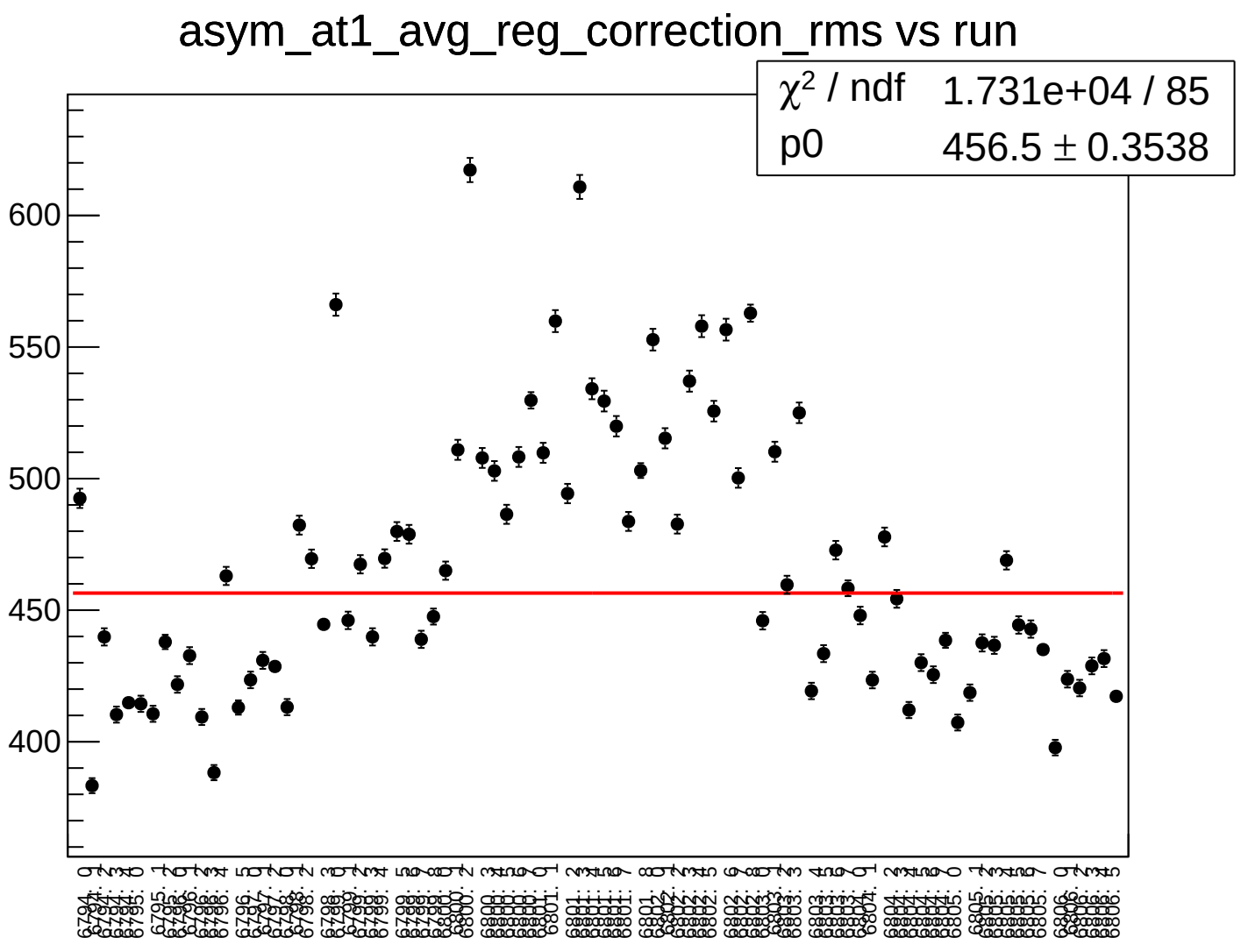

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.564e+05 / 85
p0 4.822e−11 ± 4.761e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

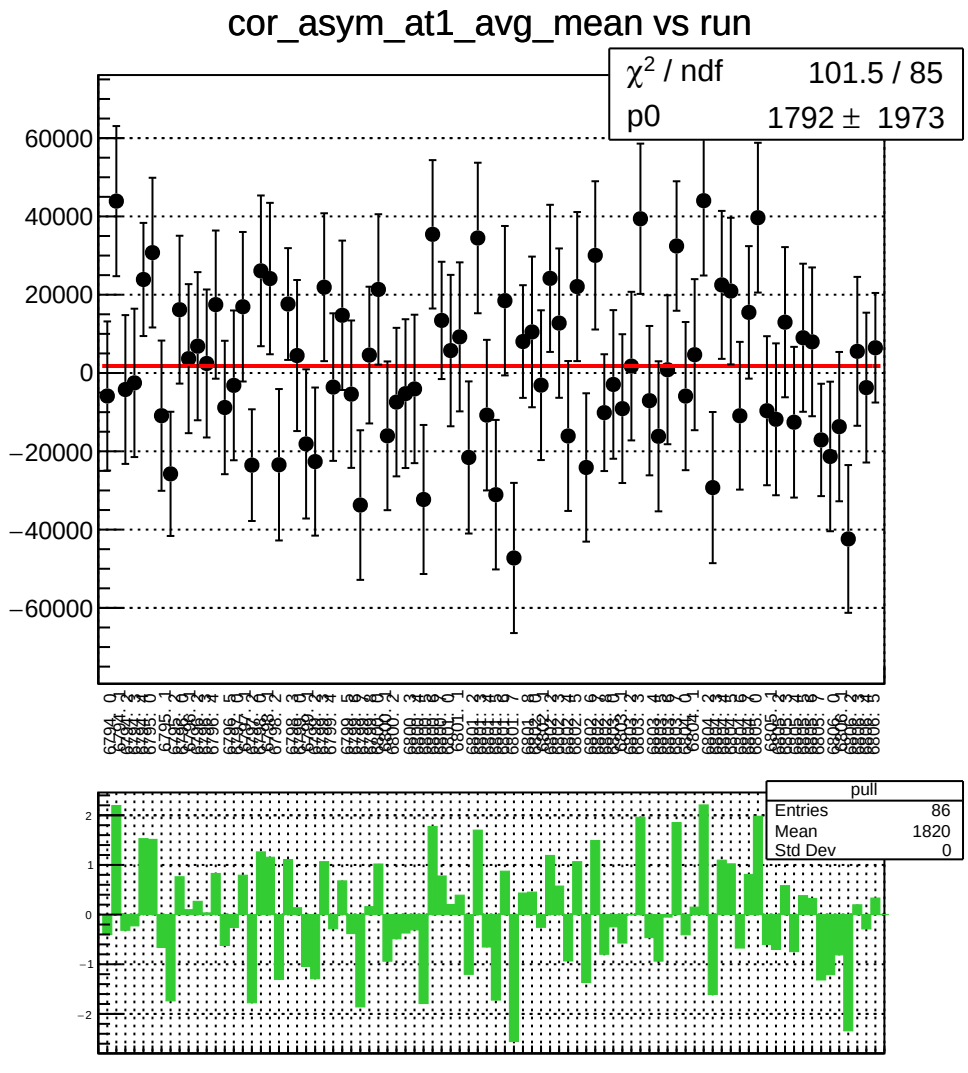

reg_asym_at1_avg_mean vs run
χ² / ndf 101.5 / 85
p0 1792 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1820
Std Dev 0
2
1
0
−1
−2

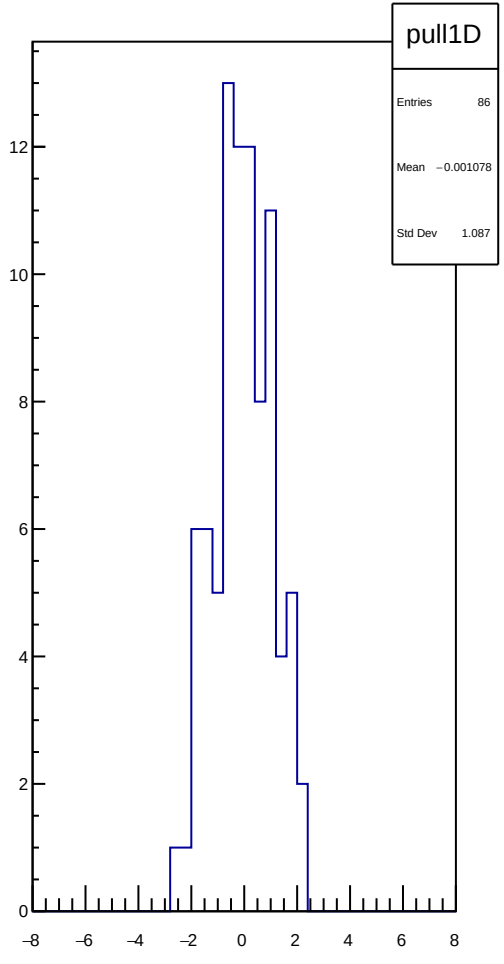

pull1D
Entries 86
Mean −0.001078
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

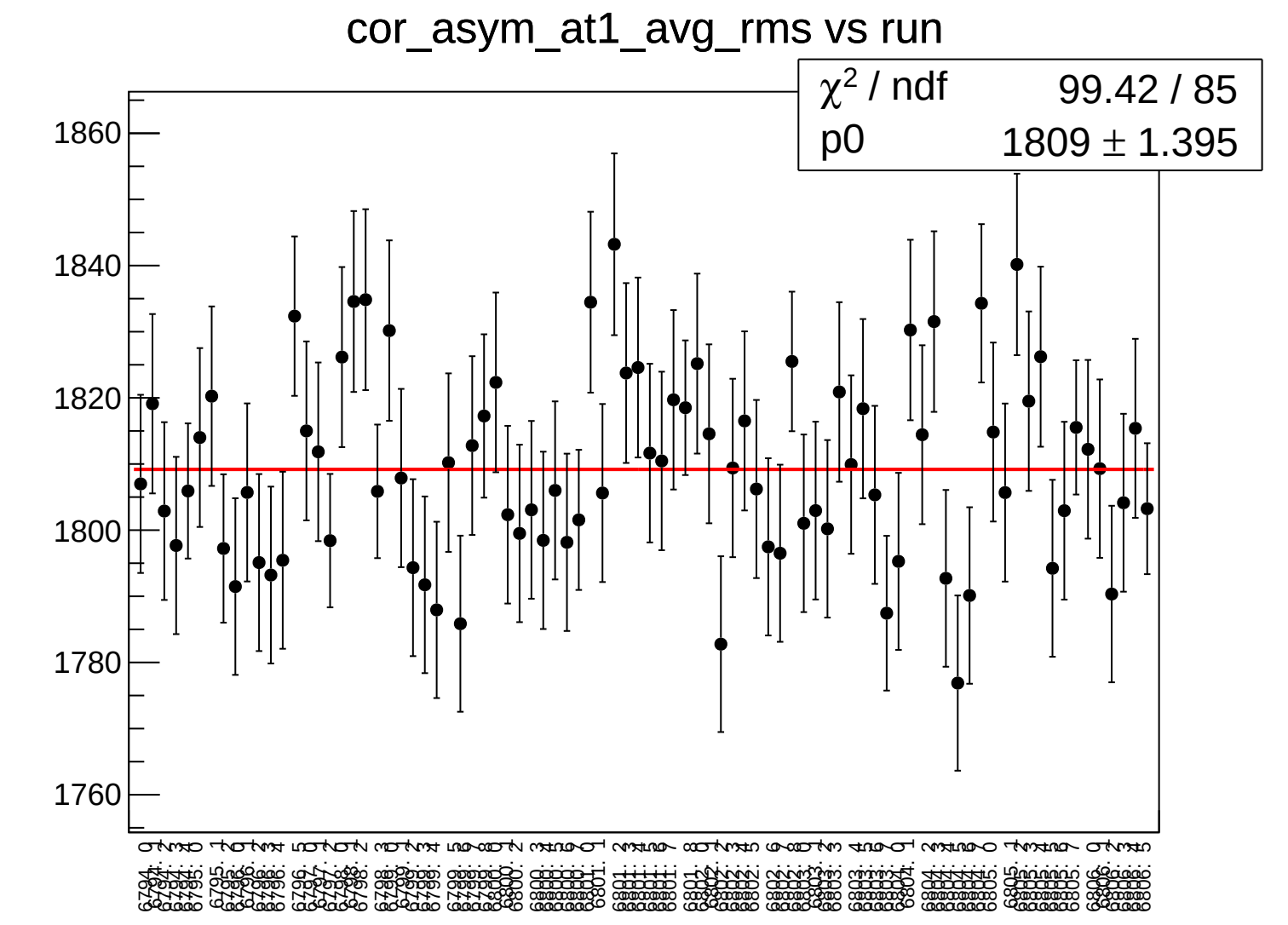

reg_asym_at1_avg_rms vs run
χ² / ndf 99.42 / 85
p0 1809 ± 1.395
1860
1840
1820
1800
1780
1760

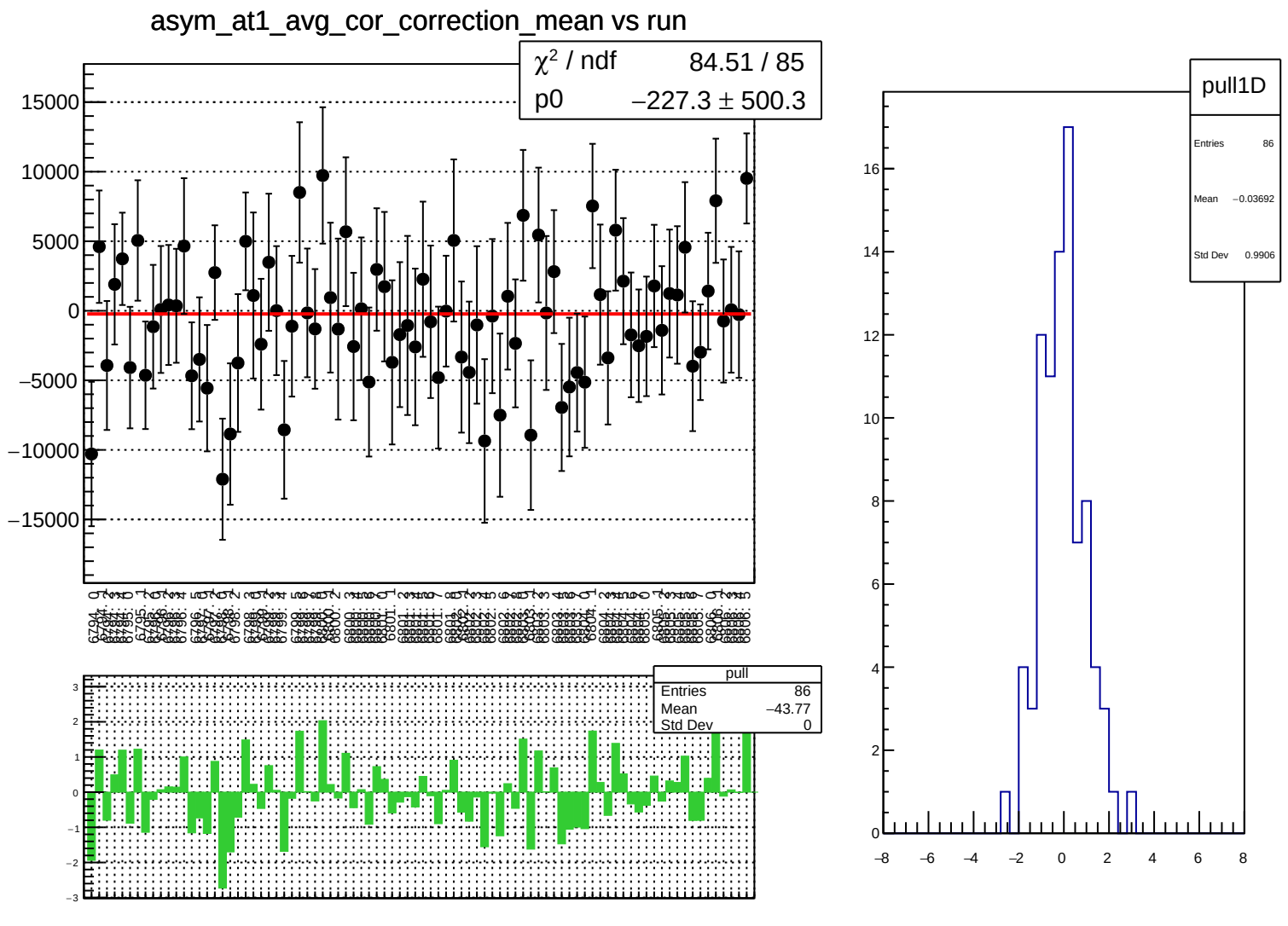

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 84.52 / 85
p0 −227.1 ± 500.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −43.75
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03692
Std Dev 0.9907
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

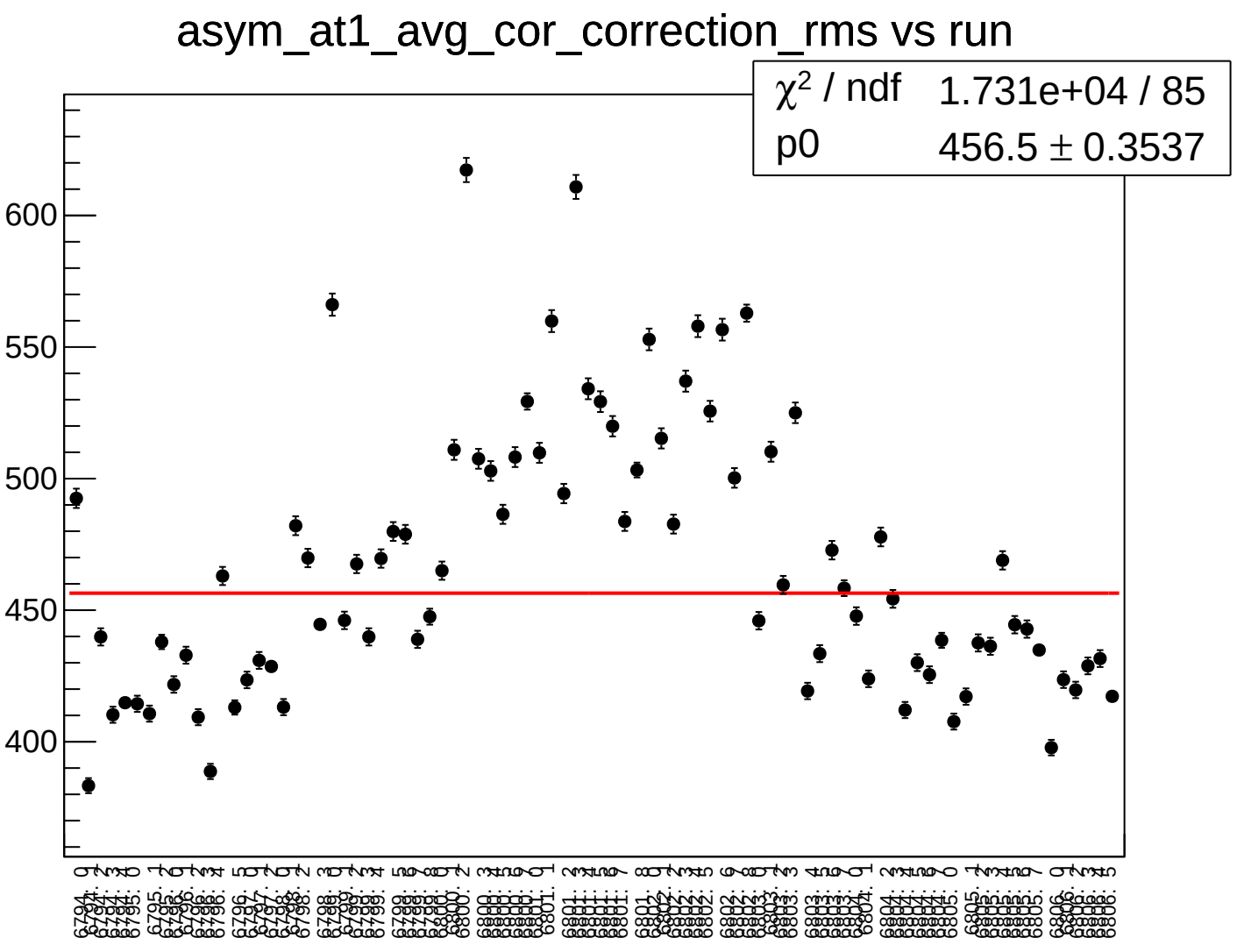

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.731e+04 / 85
p0 456.5 ± 0.3538
600
550
500
450
400

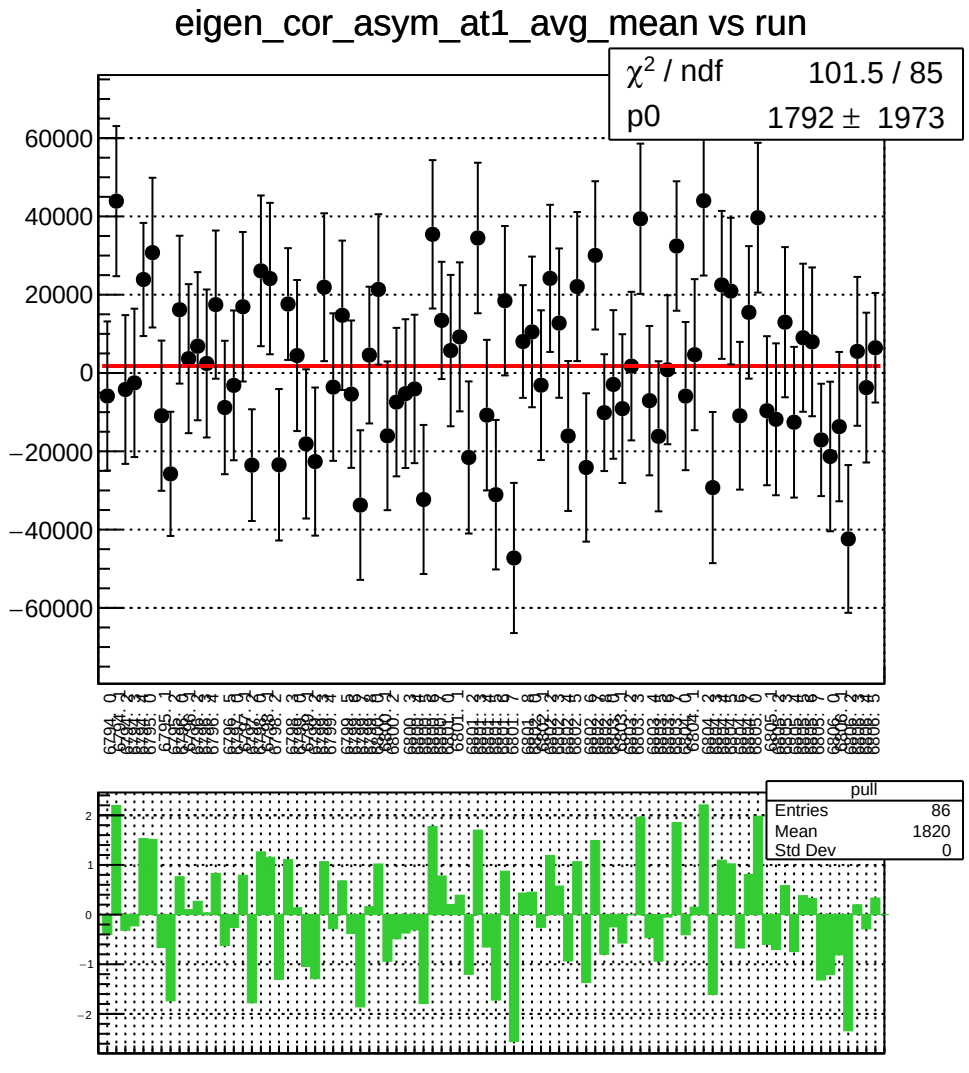

cor_asym_at1_avg_mean vs run
χ² / ndf 101.5 / 85
p0 1792 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1820
Std Dev 0
2
1
0
−1
−2

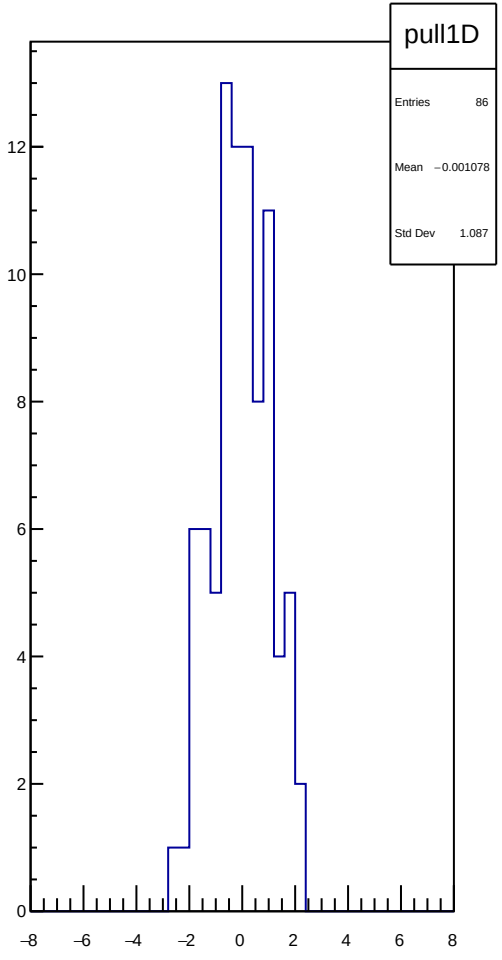

pull1D
Entries 86
Mean −0.001078
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

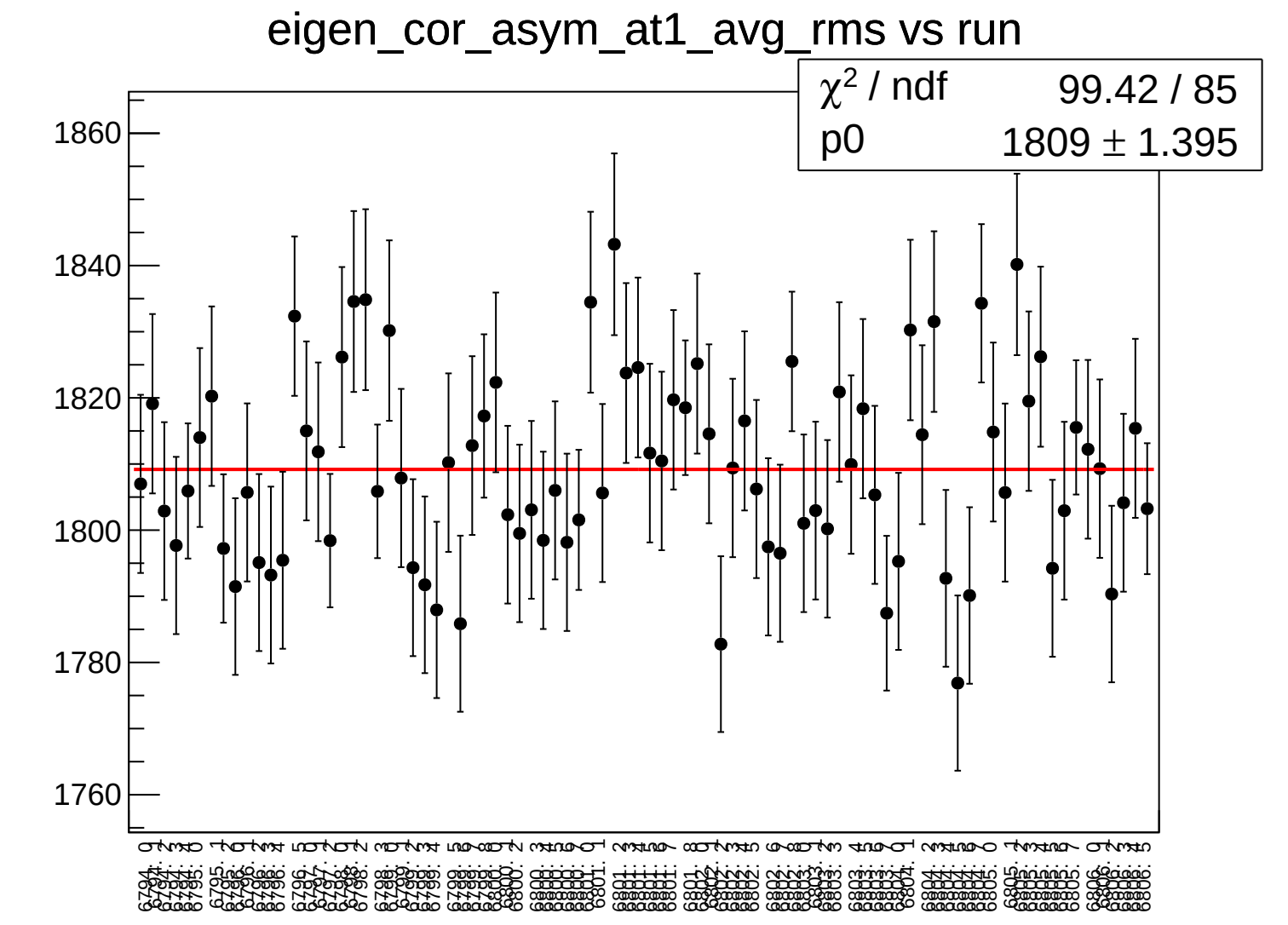

cor_asym_at1_avg_rms vs run
χ^2 / ndf 99.42 / 85
p0 1809 ± 1.395
1860
1840
1820
1800
1780
1760

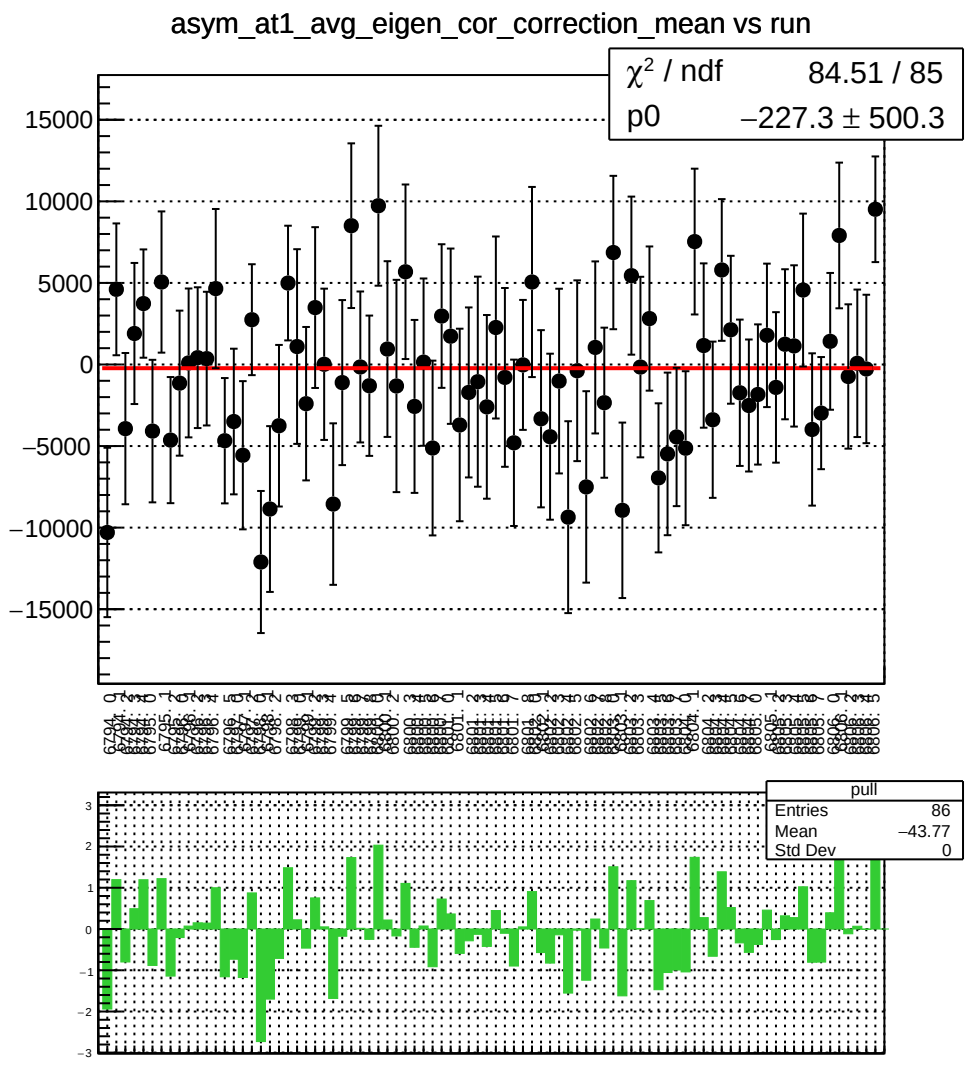

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 84.51 / 85
p0 −227.3 ± 500.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −43.77
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03692
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

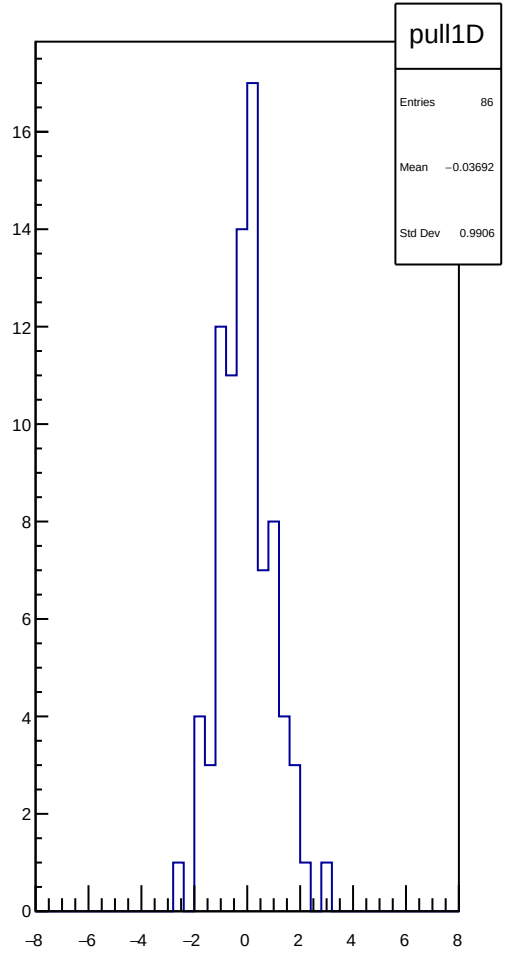

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 85
p0 456.5 ± 0.3537
600
550
500
450
400

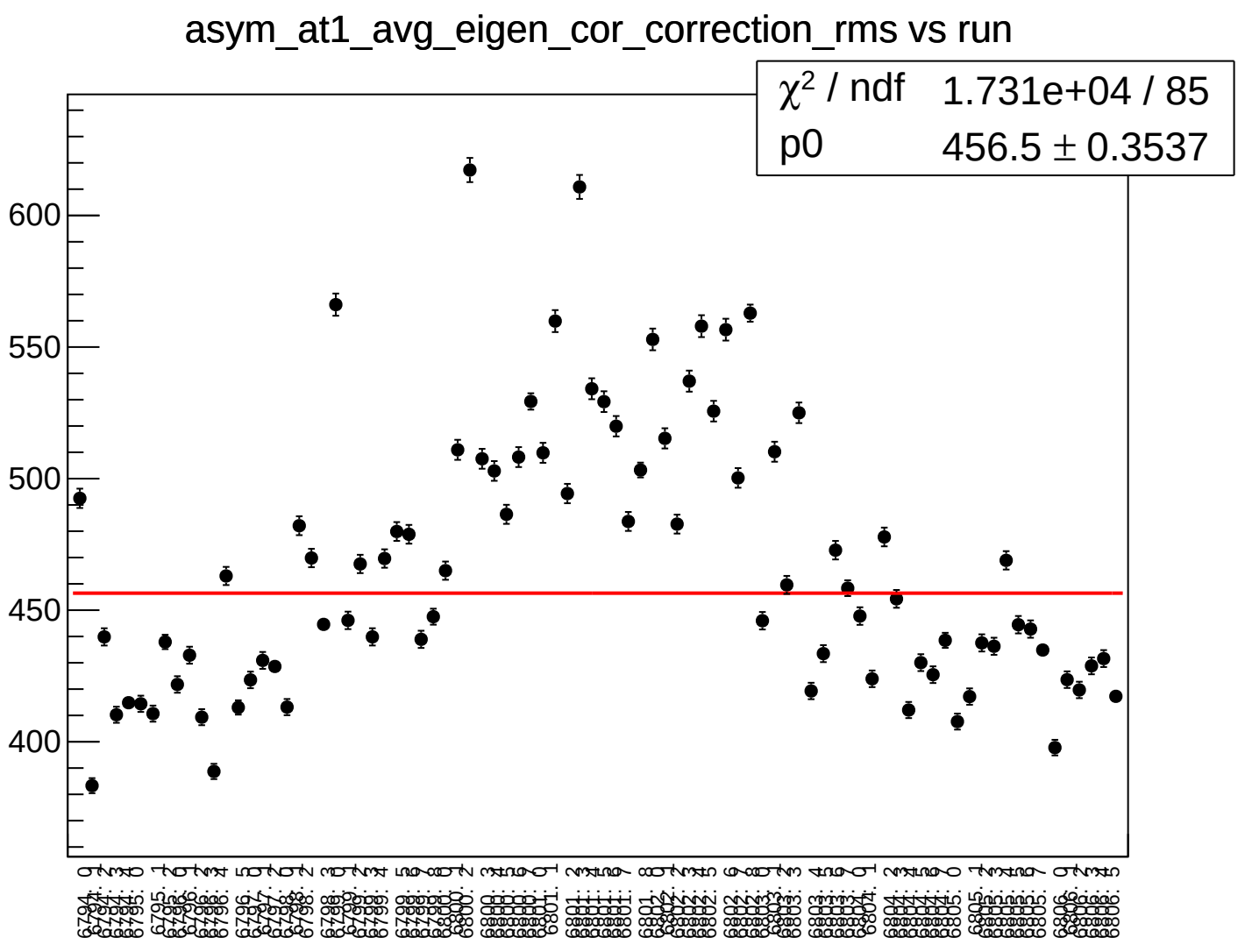

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 101.5 / 85
p0 1792 ± 1973
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1820
Std Dev 0
2
1
0
−1
−2

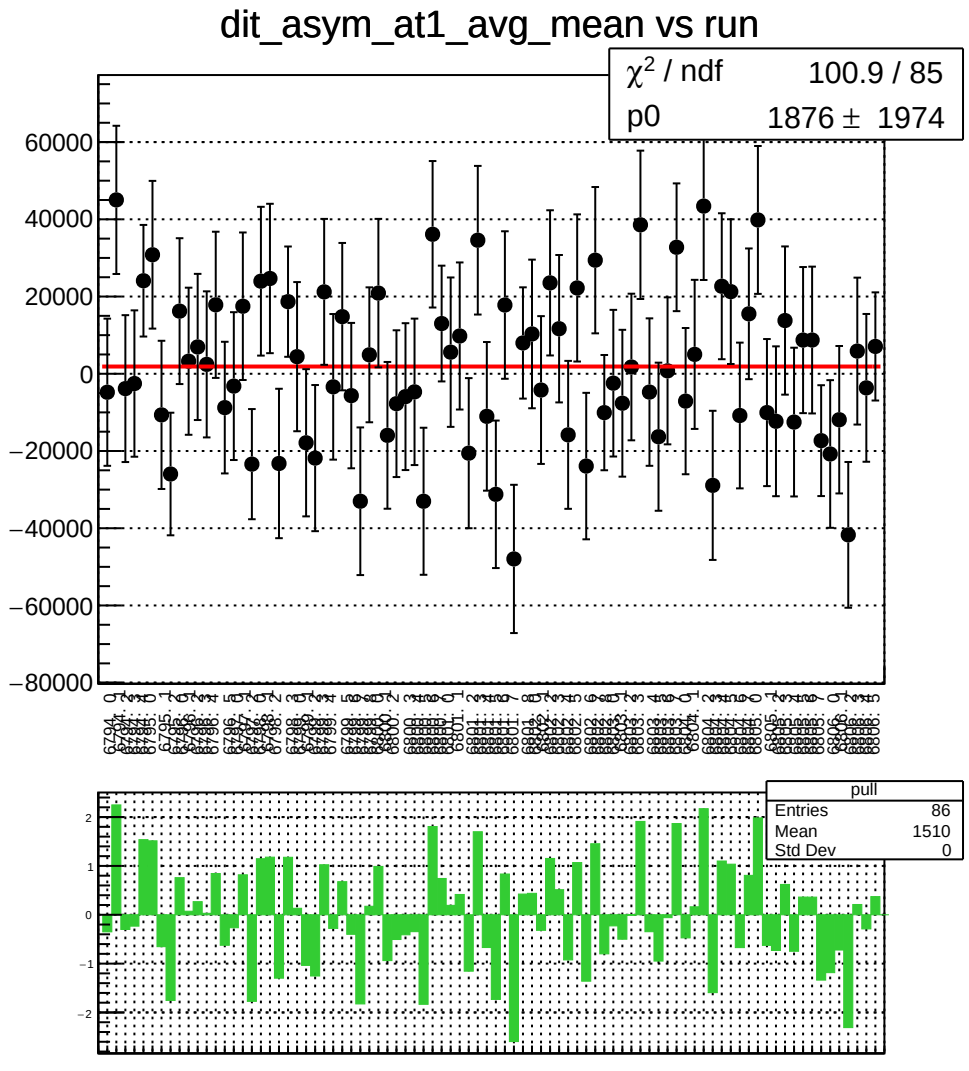

pull1D
Entries 86
Mean −0.001078
Std Dev 1.087
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

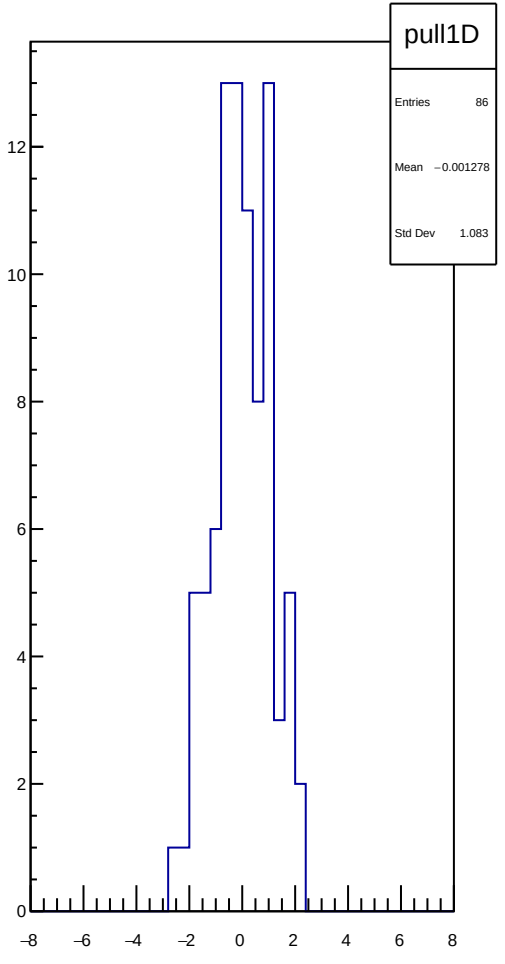

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 99.42 / 85
p0 1809 ± 1.395
1860
1840
1820
1800
1780
1760

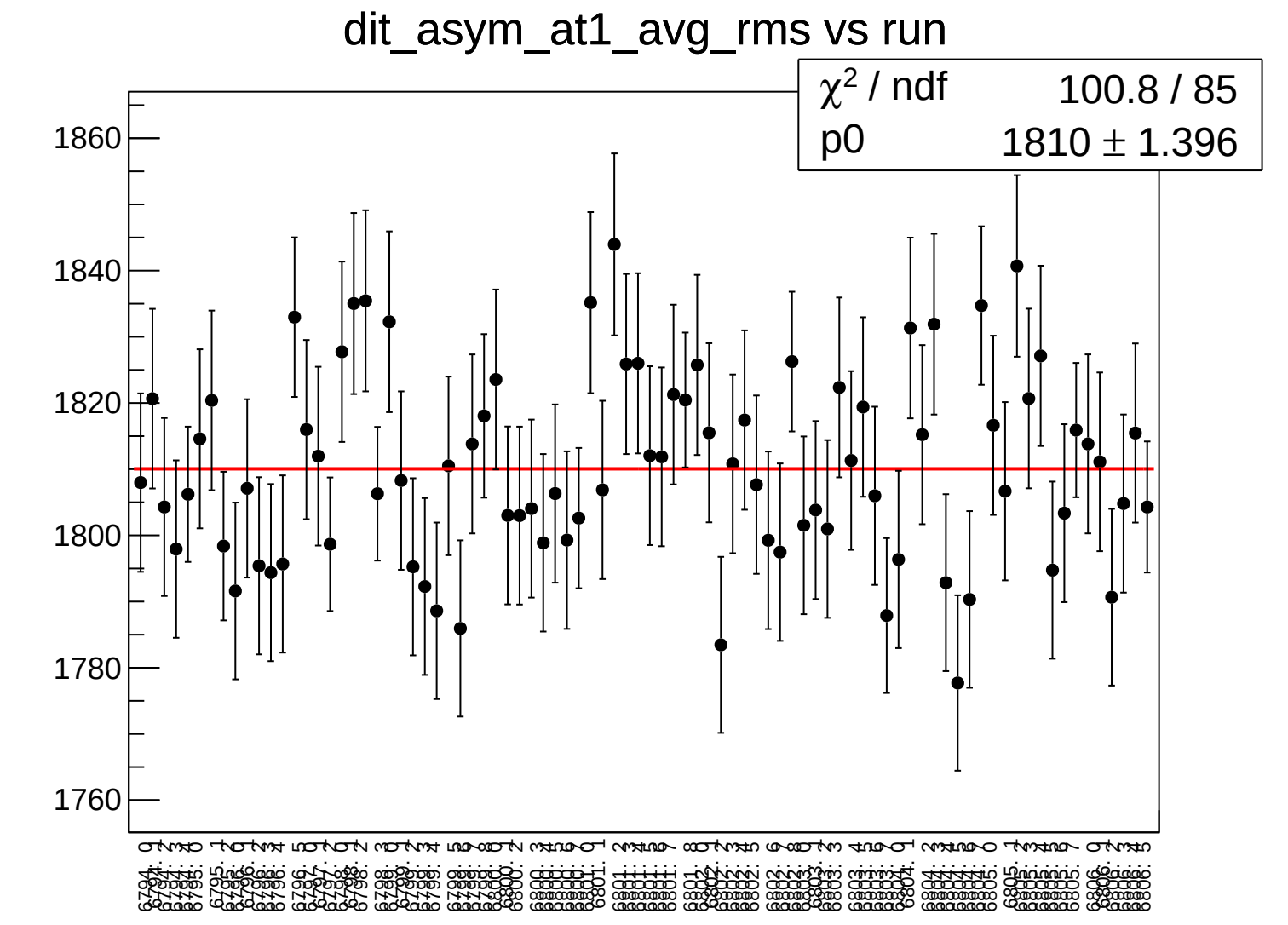

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 84.51 / 85
p0 −227.3 ± 500.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −43.77
Std Dev 0
3
2
1
0
−1
−2
−3

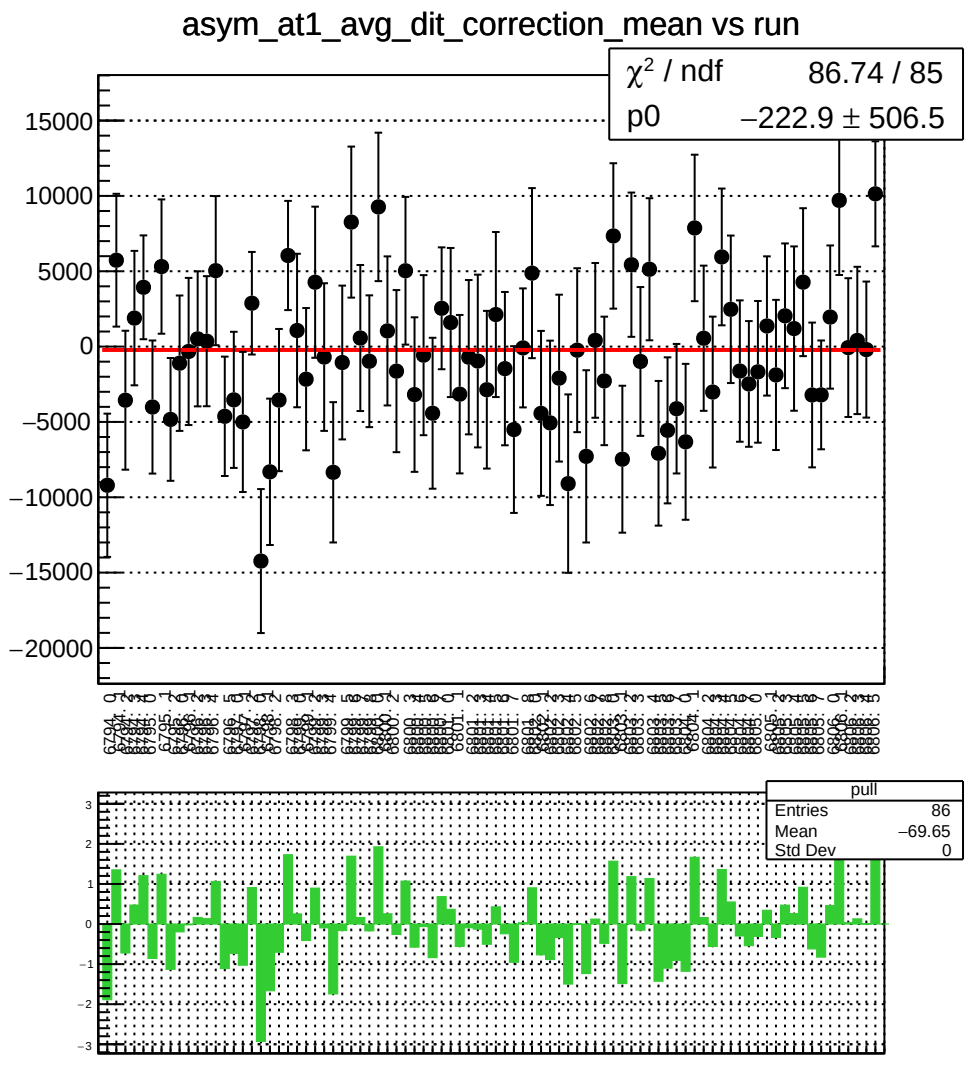

pull1D
Entries 86
Mean −0.03692
Std Dev 0.9906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

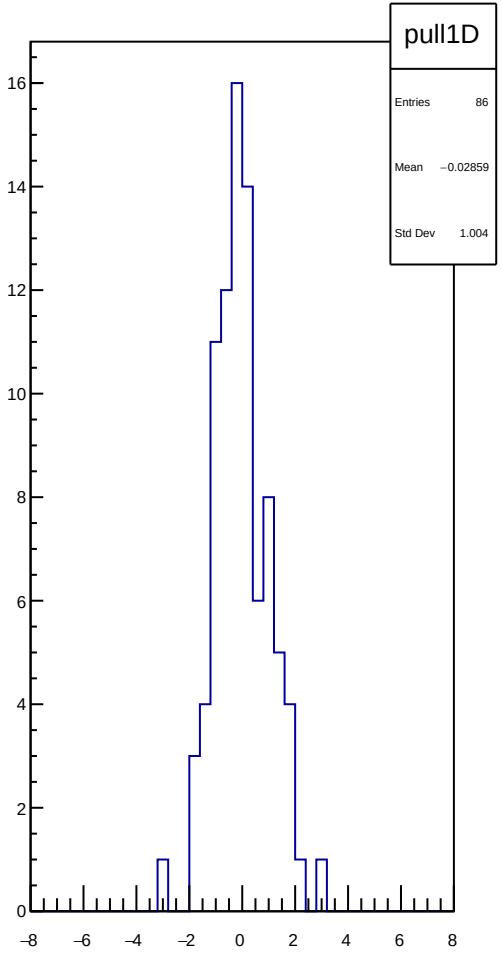

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.731e+04 / 85
p0 456.5 ± 0.3537
600
550
500
450
400

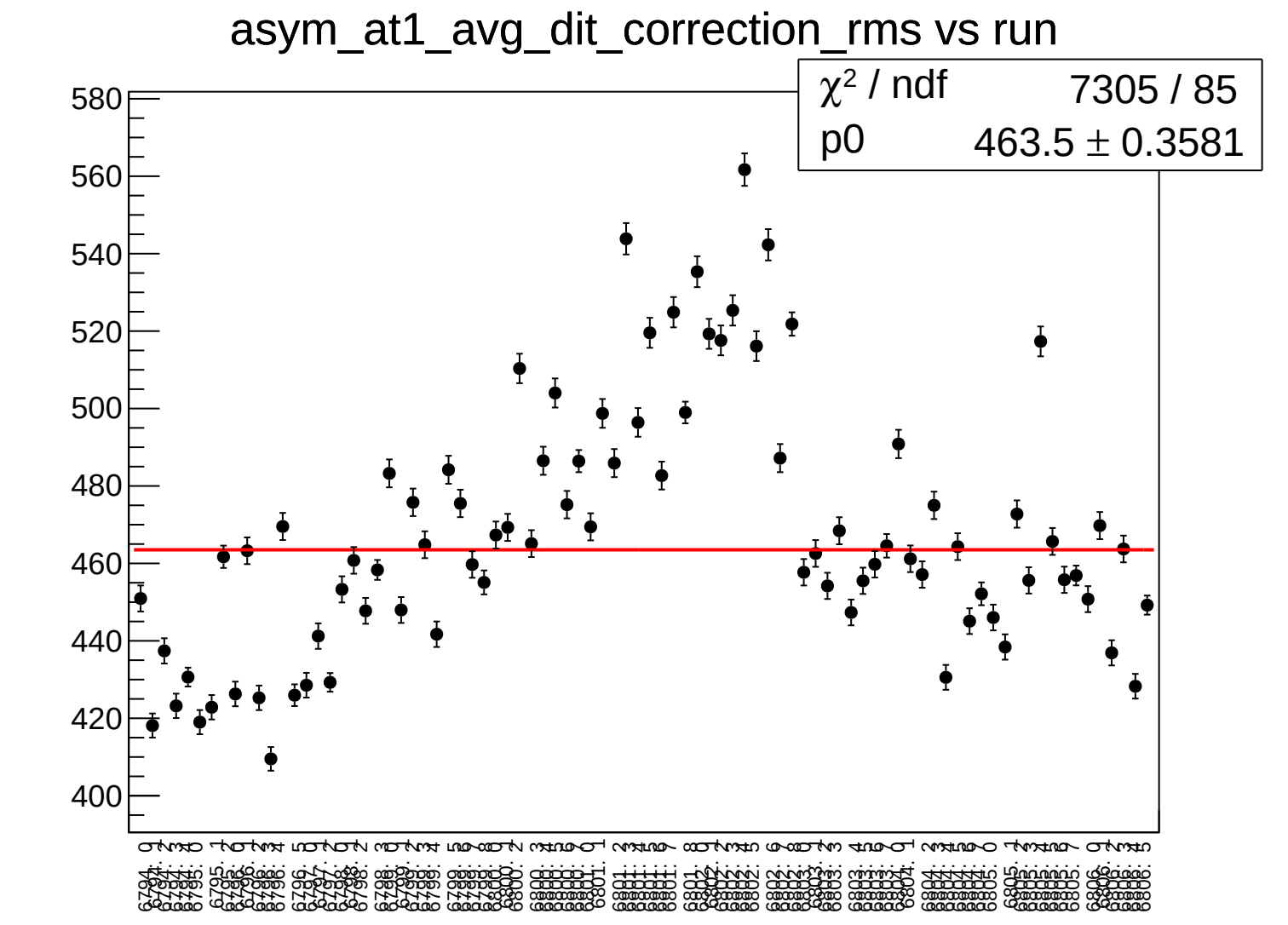

dit_asym_at1_avg_mean vs run
χ² / ndf 100.9 / 85
p0 1876 ± 1974
pull
Entries 86
Mean 1510
Std Dev 0

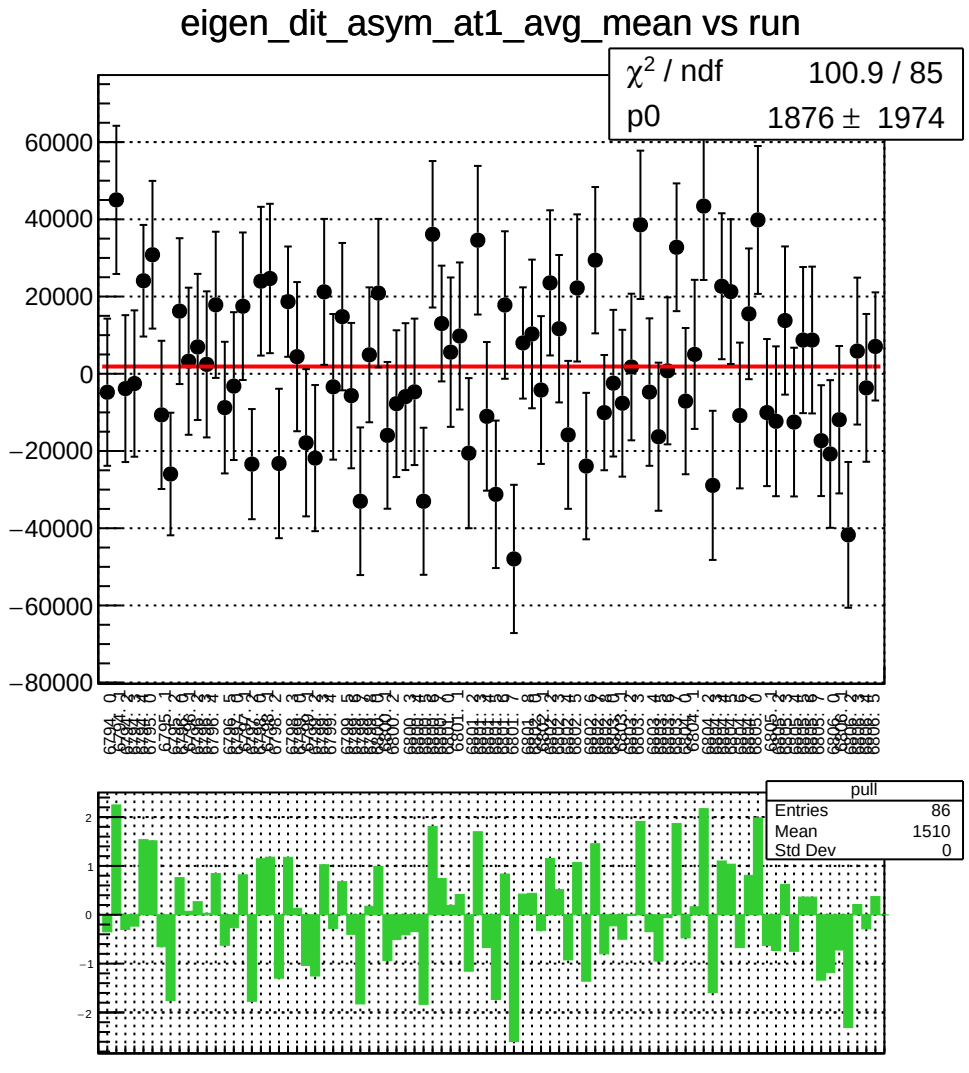

pull1D
Entries 86
Mean −0.001278
Std Dev 1.083

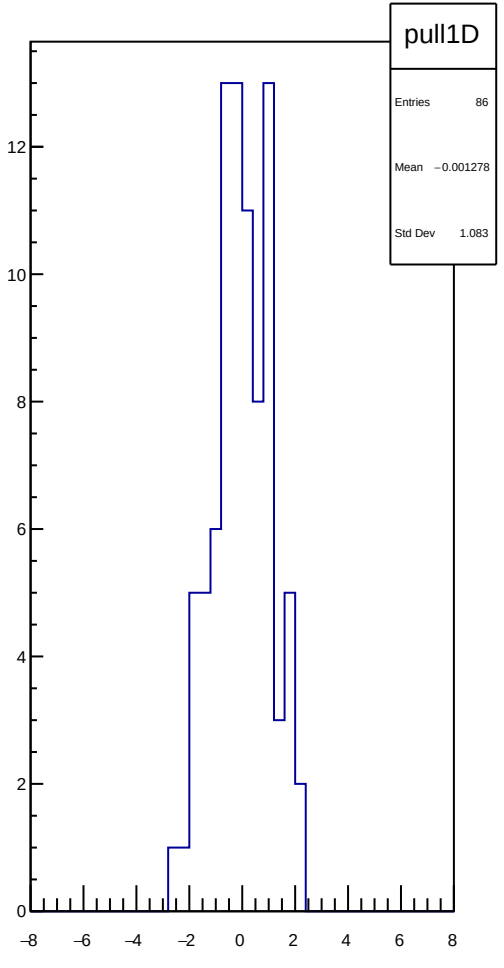

dit_asym_at1_avg_rms vs run
χ² / ndf 100.8 / 85
p0 1810 ± 1.396
1860
1840
1820
1800
1780
1760

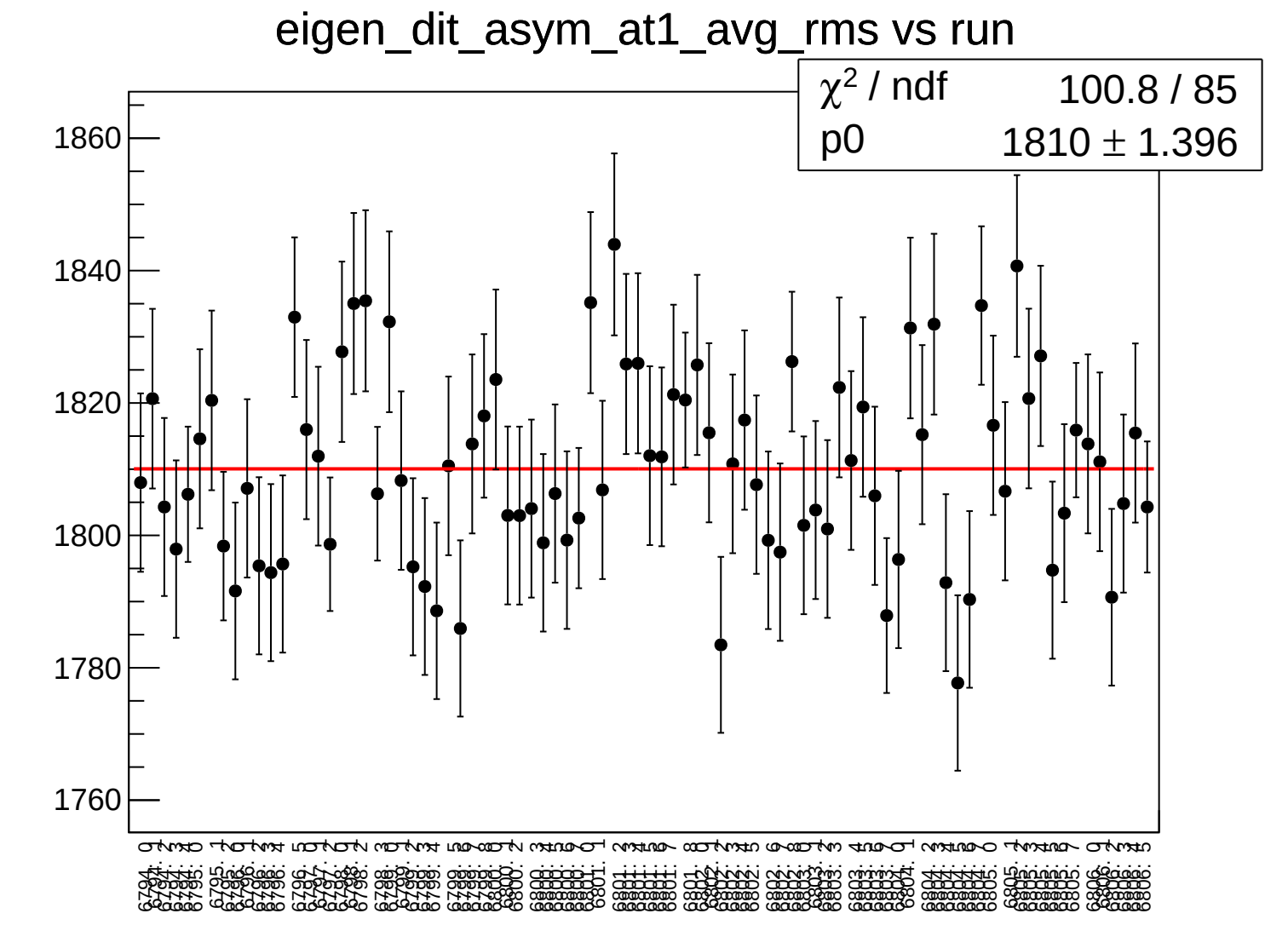

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 86.74 / 85
p0 −222.9 ± 506.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −69.65
Std Dev 0
3
2
1
0
−1
−2
−3

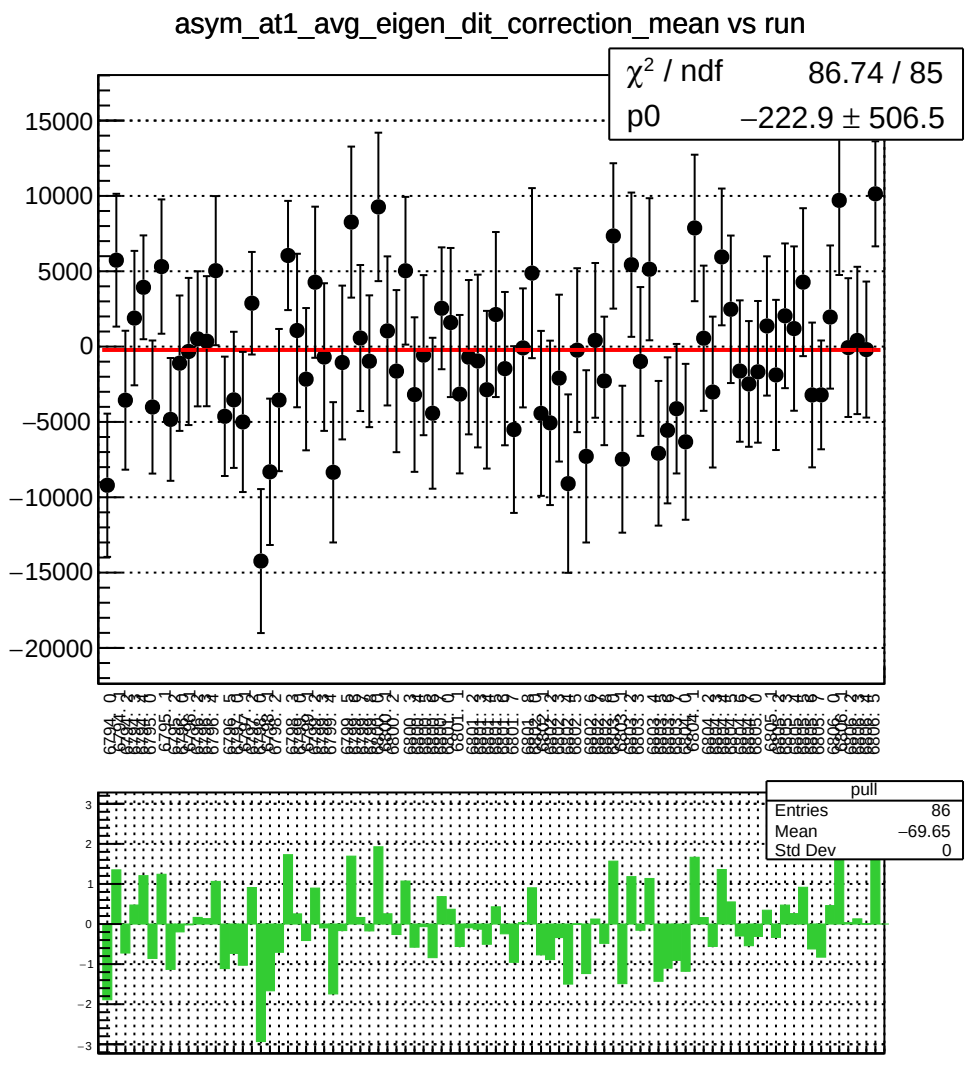

pull1D
Entries 86
Mean −0.02859
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

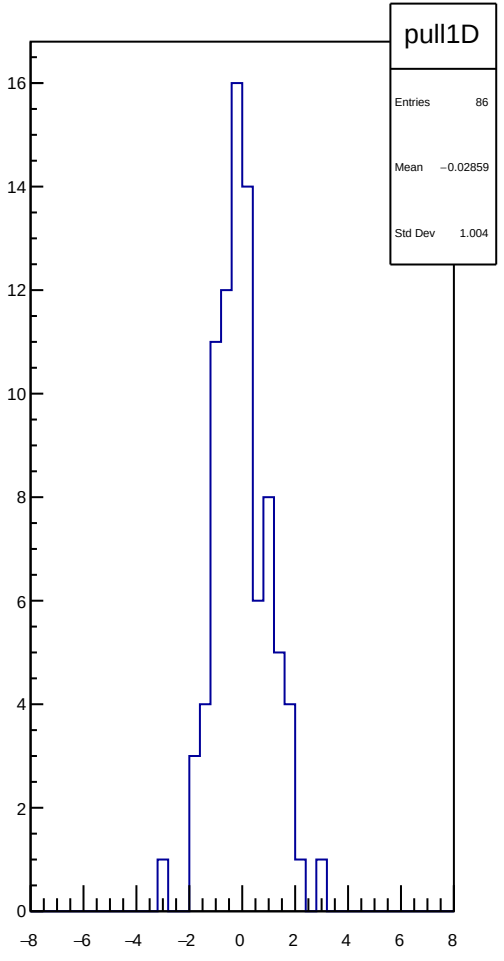

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 7305 / 85
p0 463.5 ± 0.3581
580
560
540
520
500
480
460
440
420
400

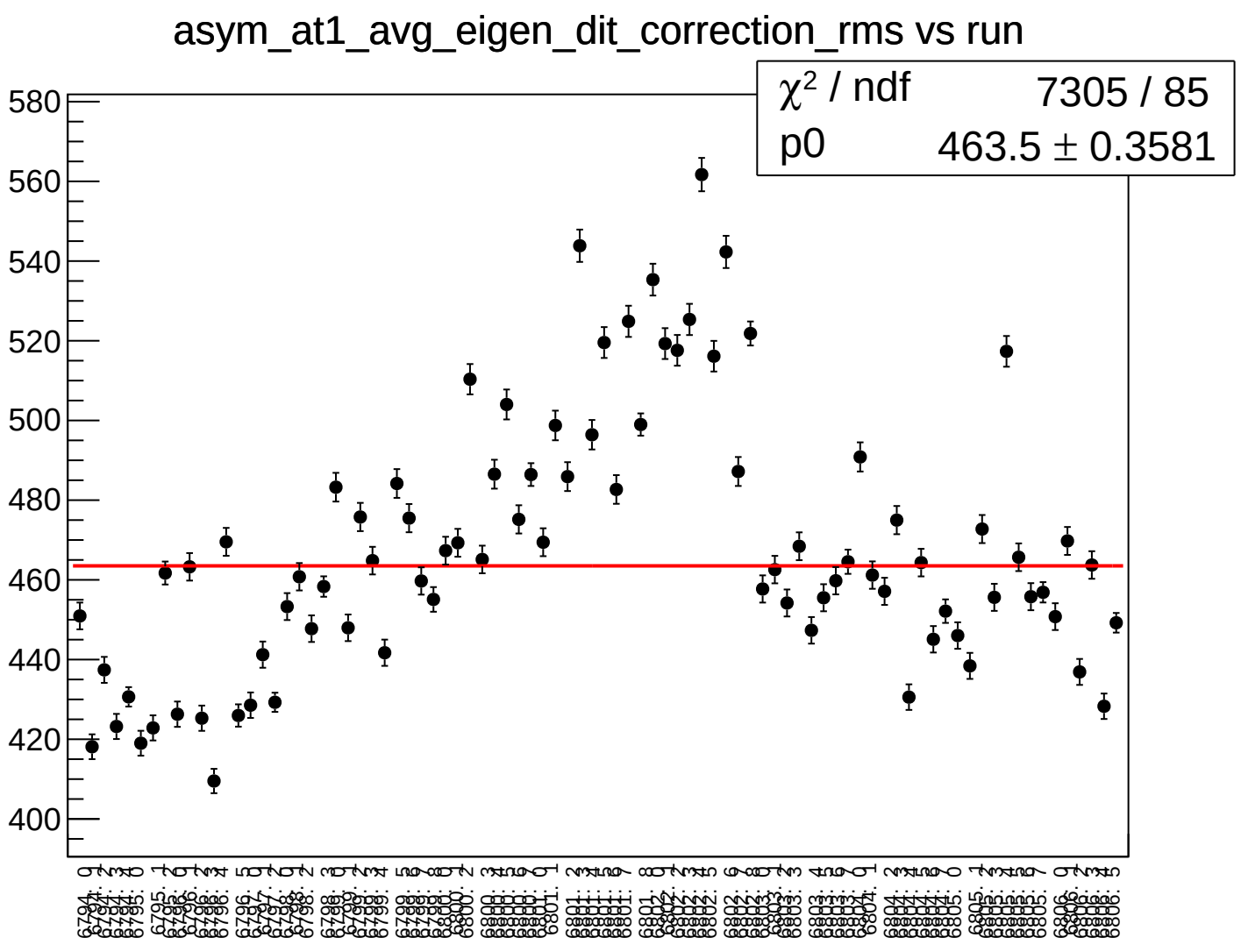

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 100.9 / 85
p0 1876 ± 1974
pull
Entries 86
Mean 1510
Std Dev 0

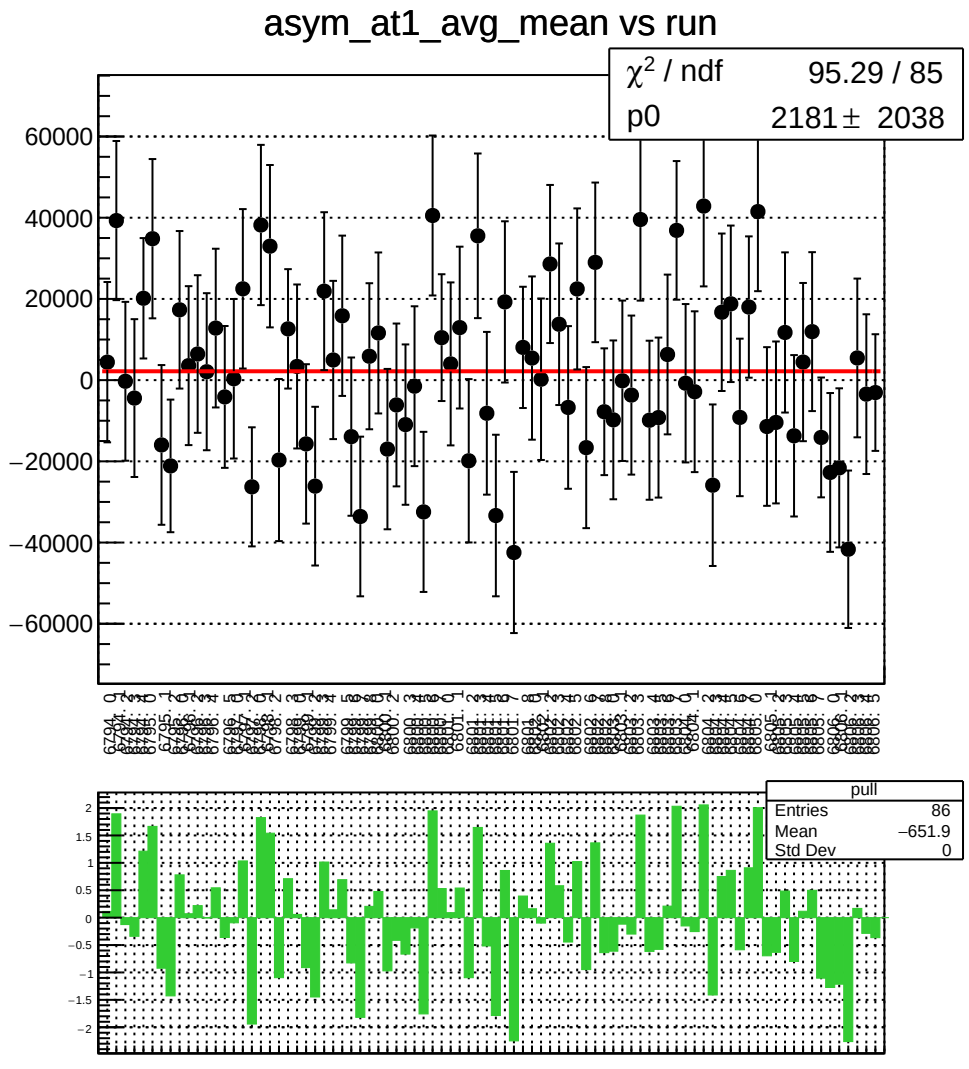

pull1D
Entries 86
Mean −0.001278
Std Dev 1.083

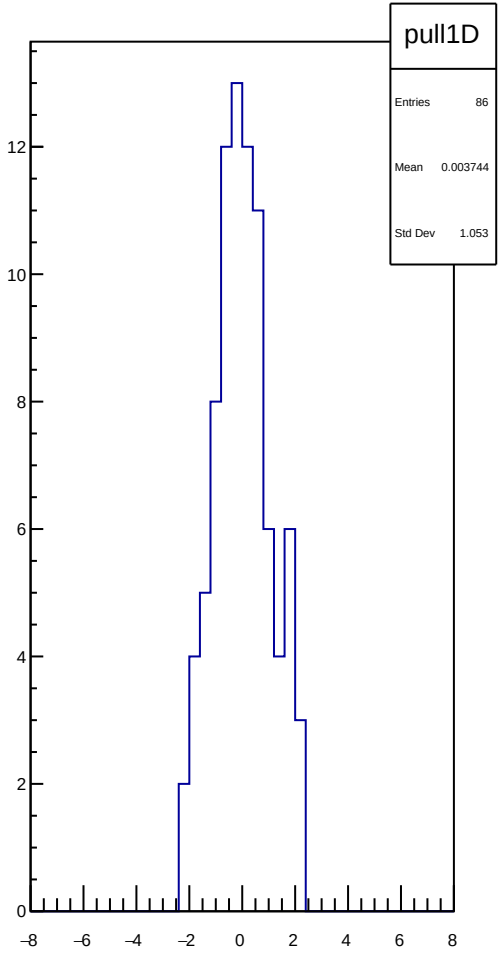

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 100.8 / 85
p0 1810 ± 1.396
1860
1840
1820
1800
1780
1760

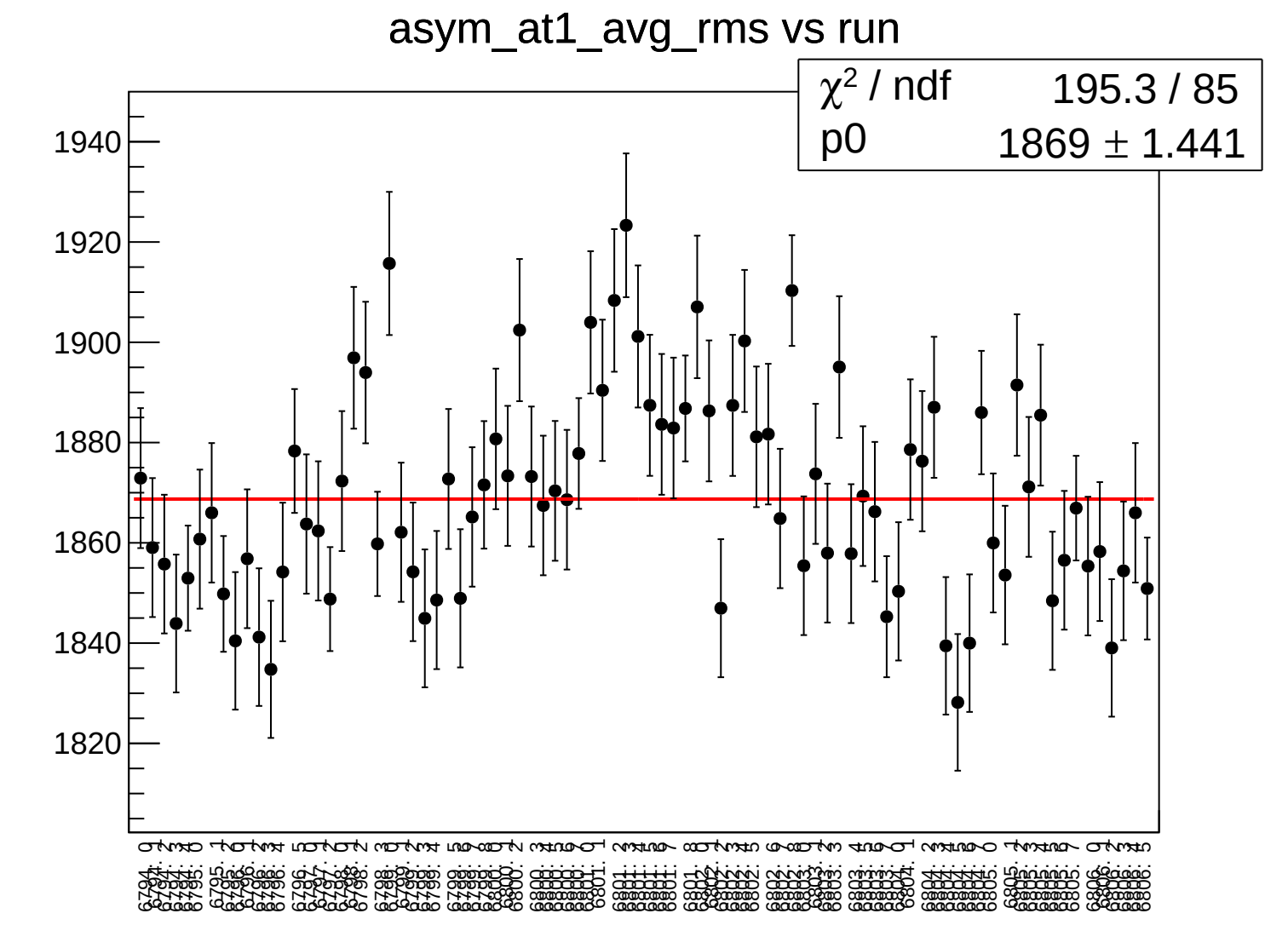

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.74 / 85
p0 −222.9 ± 506.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −69.65
Std Dev 0
3
2
1
0
−1
−2
−3

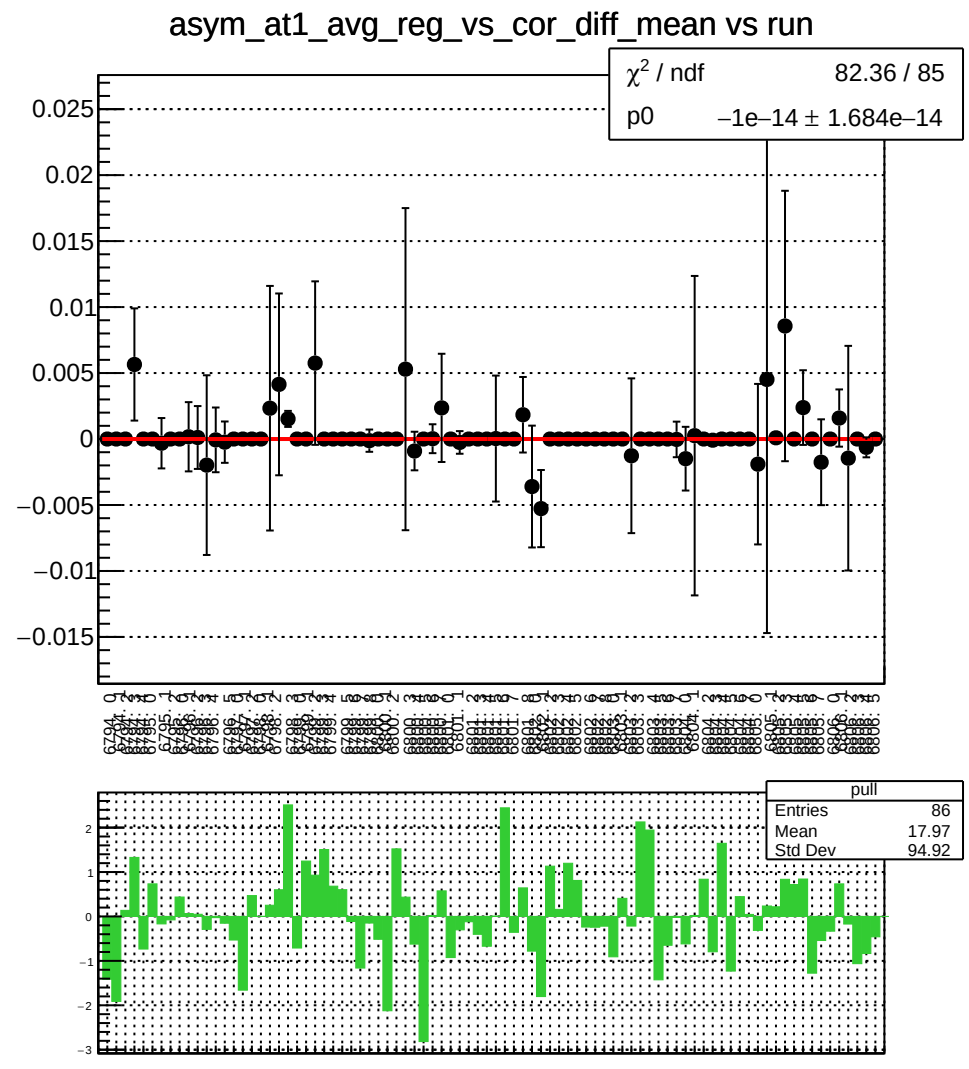

pull1D
Entries 86
Mean −0.02859
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

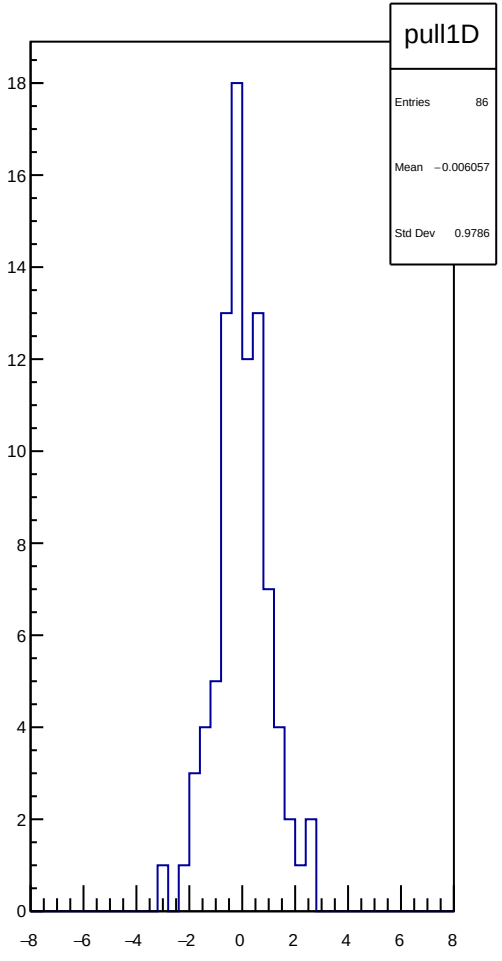

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 7305 / 85
p0 463.5 ± 0.3581
580
560
540
520
500
480
460
440
420
400

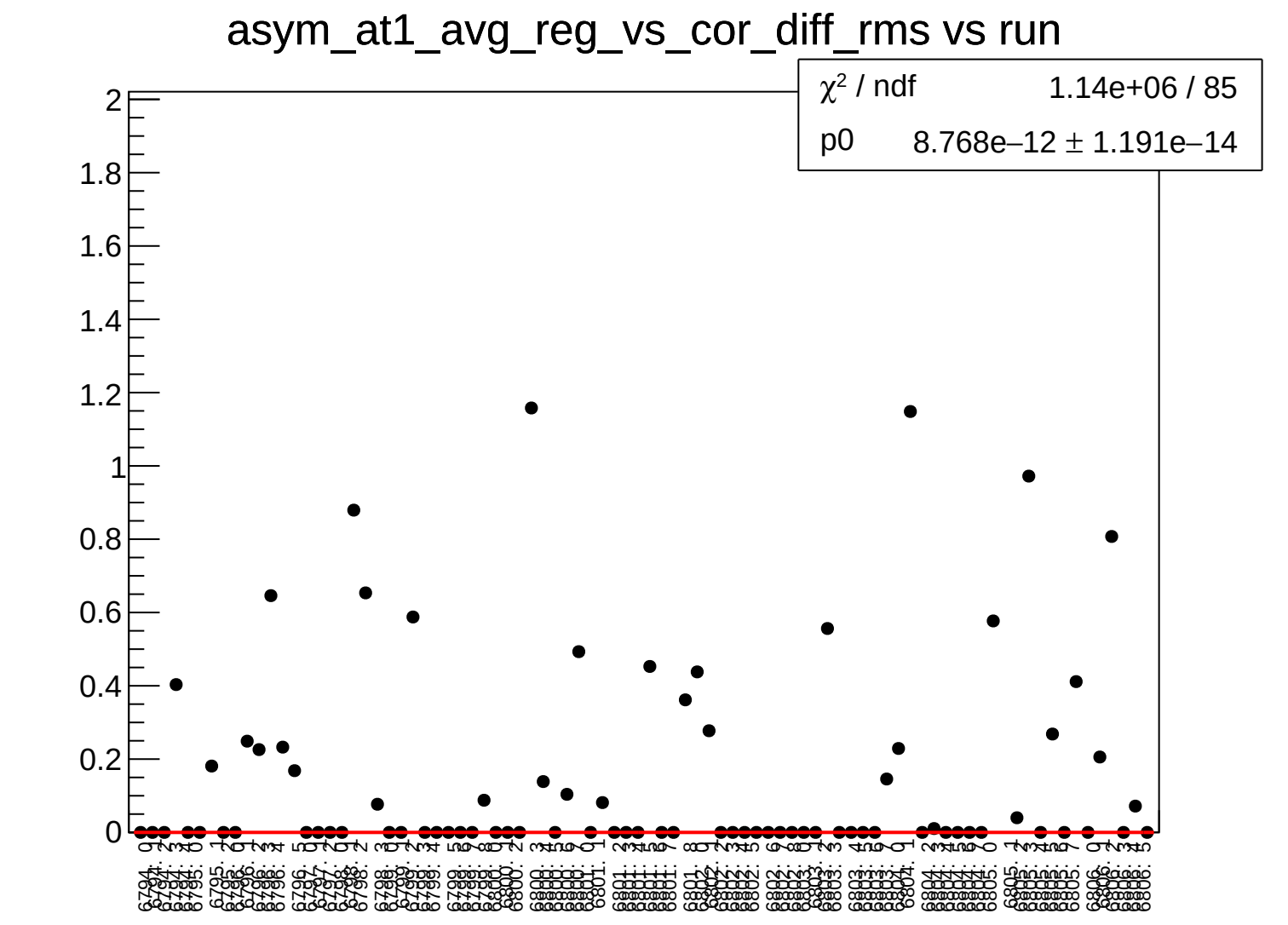

asym_at1_avg_mean vs run
χ² / ndf 95.29 / 85
p0 2181 ± 2038
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −651.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

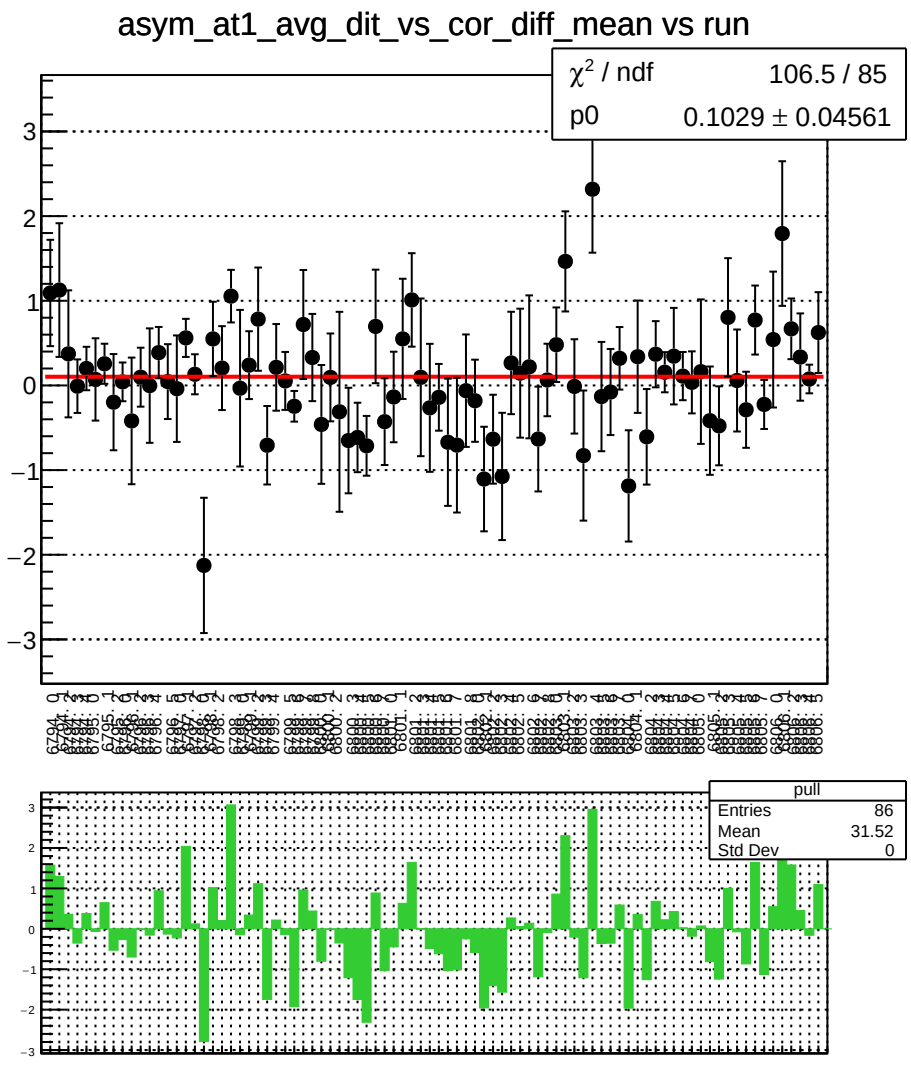

pull1D
Entries 86
Mean 0.003744
Std Dev 1.053
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

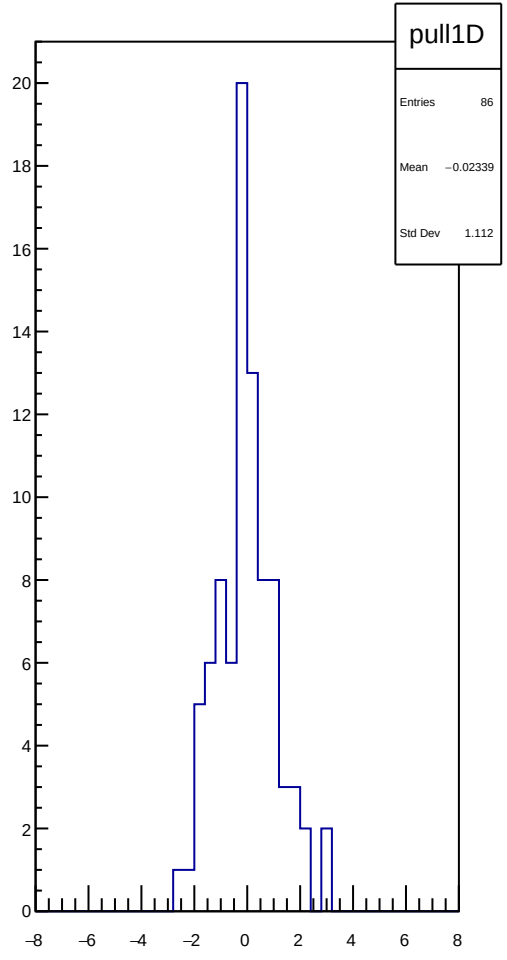

asym_at1_avg_rms vs run
χ² / ndf 195.3 / 85
p0 1869 ± 1.441
1940
1920
1900
1880
1860
1840
1820

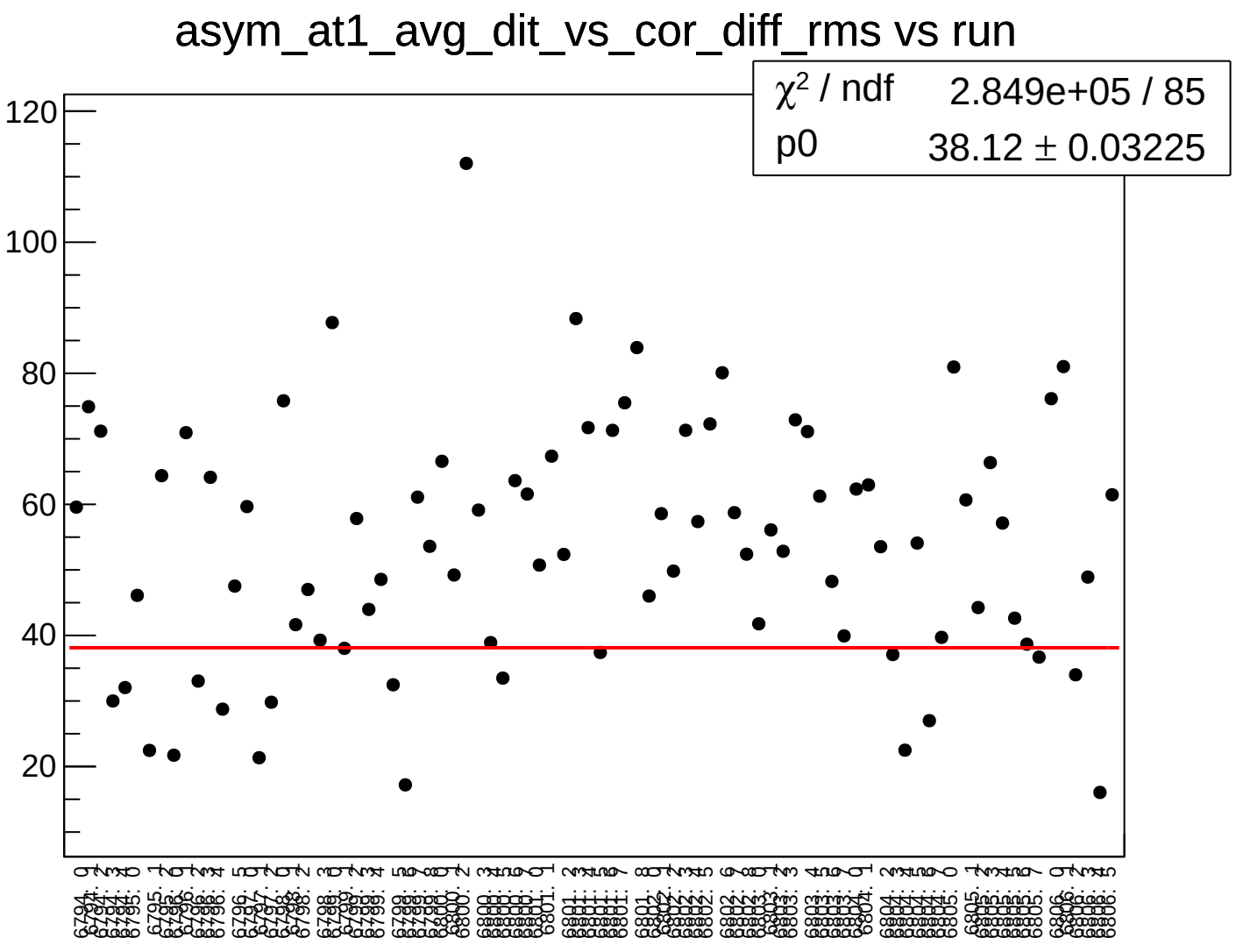

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.36 / 85
p0 −1e−14 ± 1.684e−14
pull
Entries 86
Mean 17.97
Std Dev 94.92

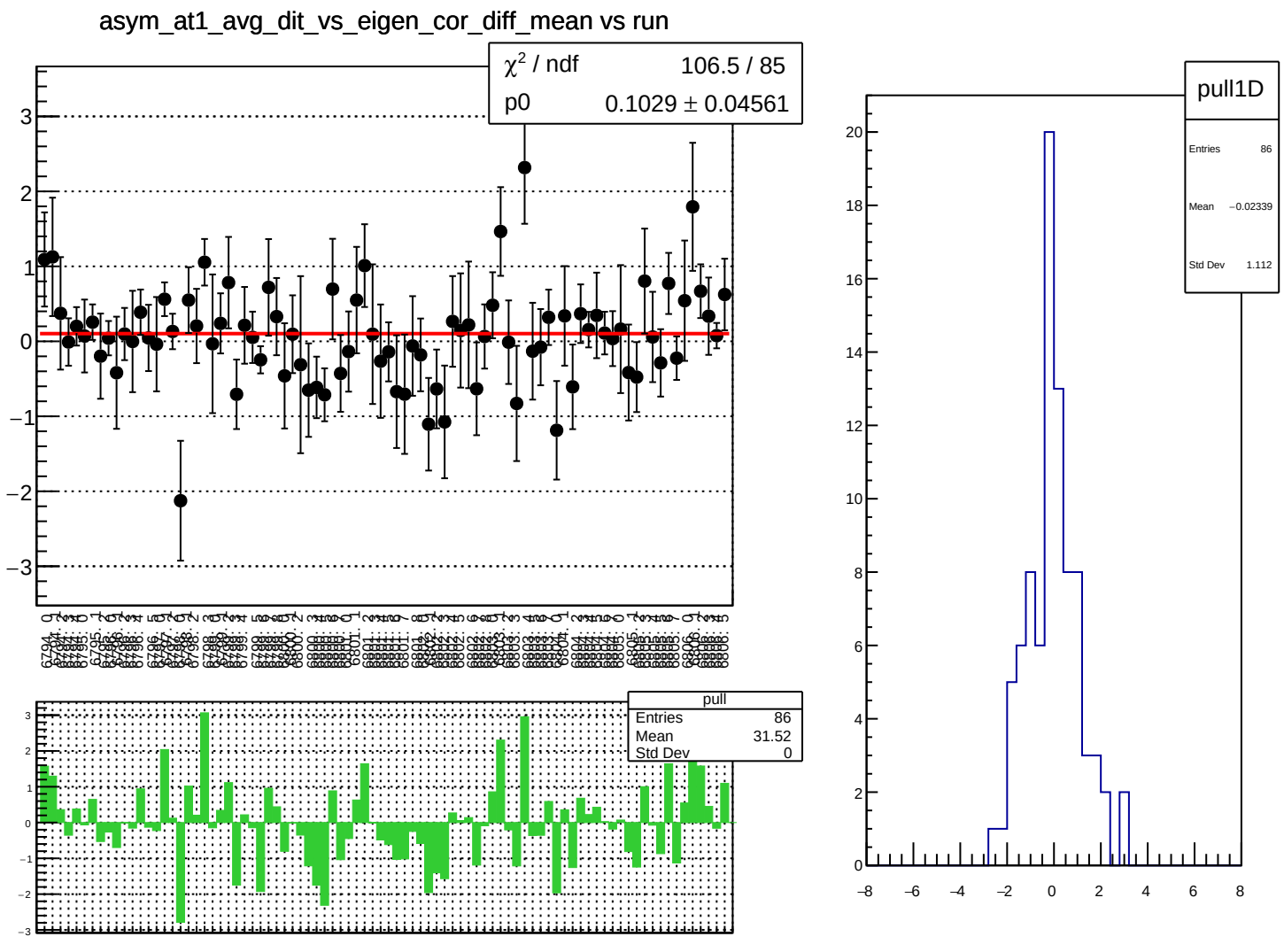

pull1D
Entries 86
Mean −0.006057
Std Dev 0.9786

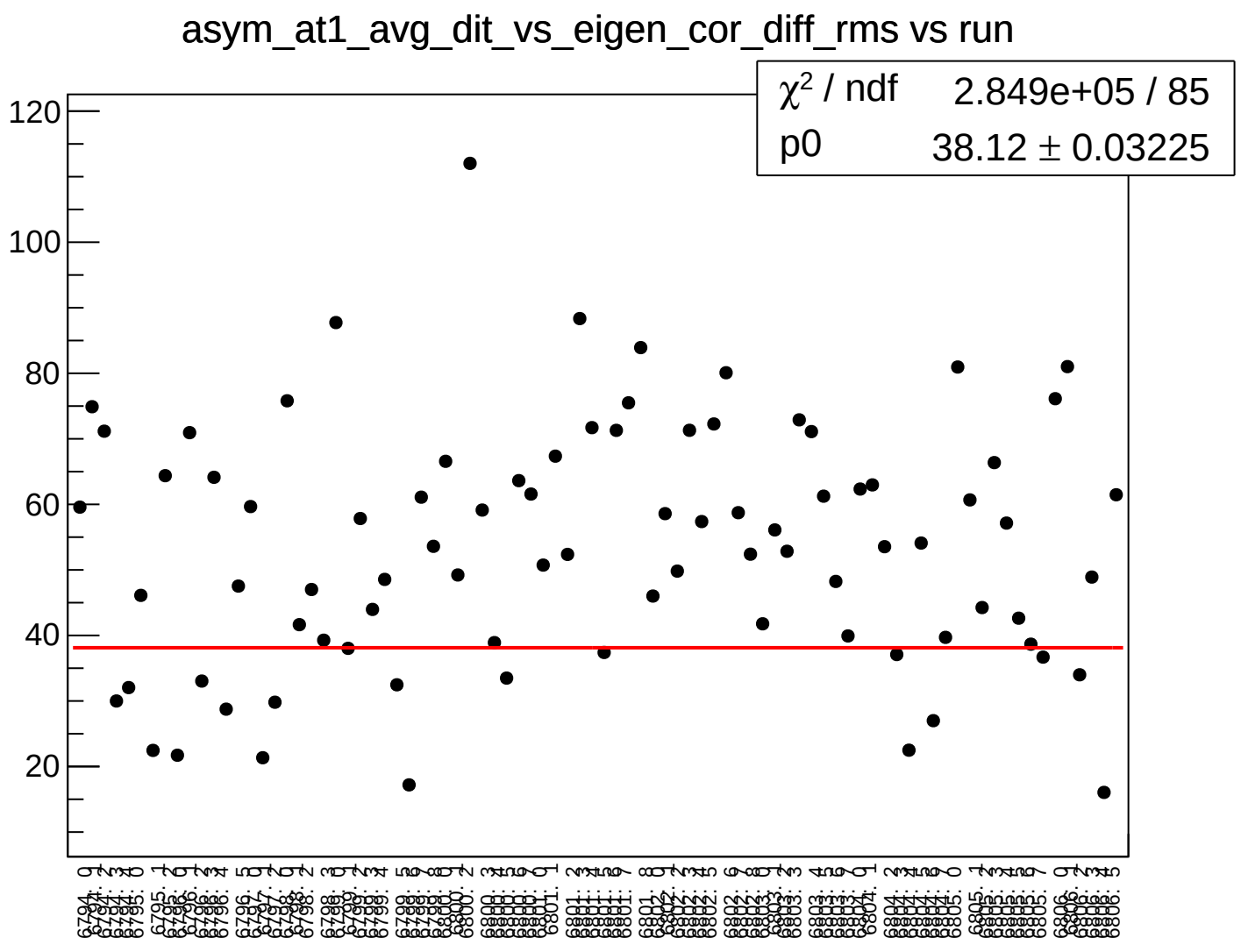

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 85
p0 8.768e−12 ± 1.191e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

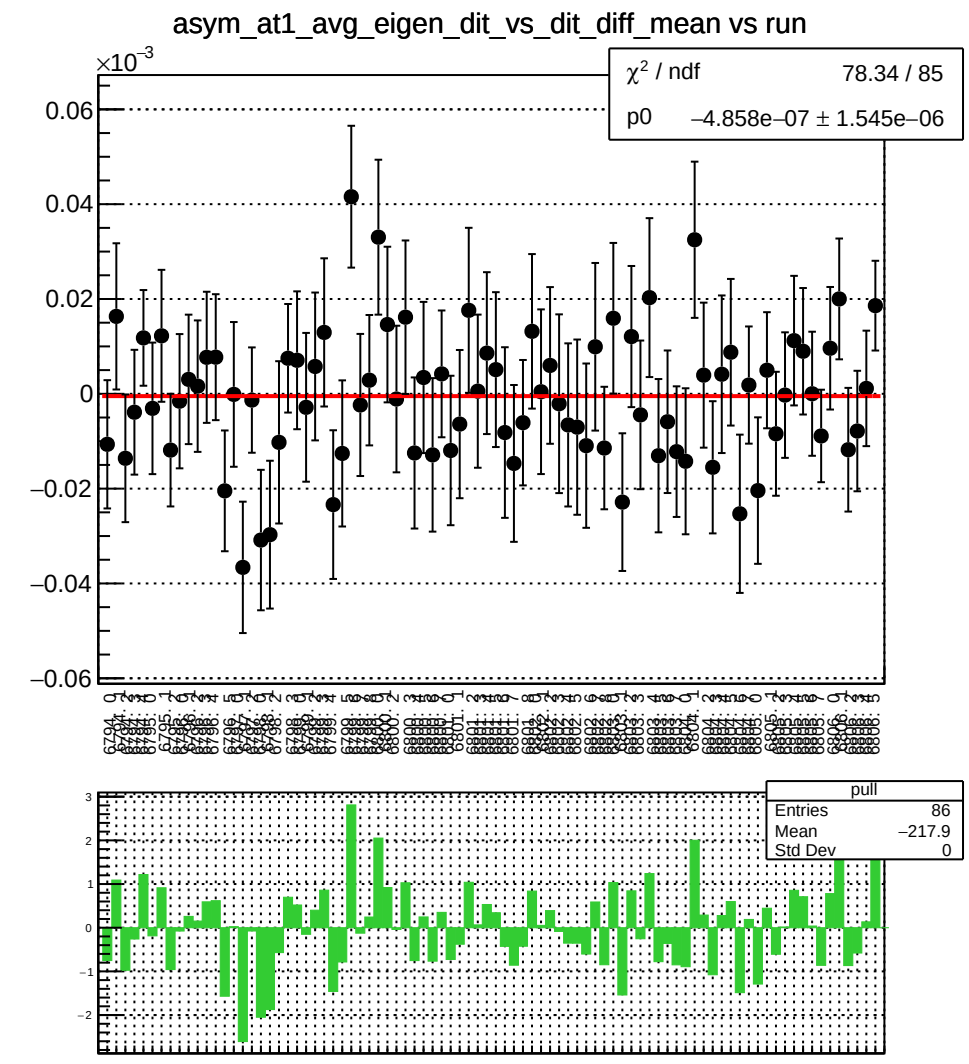

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 85
p0 0.1029 ± 0.04561
pull
Entries 86
Mean 31.52
Std Dev 0

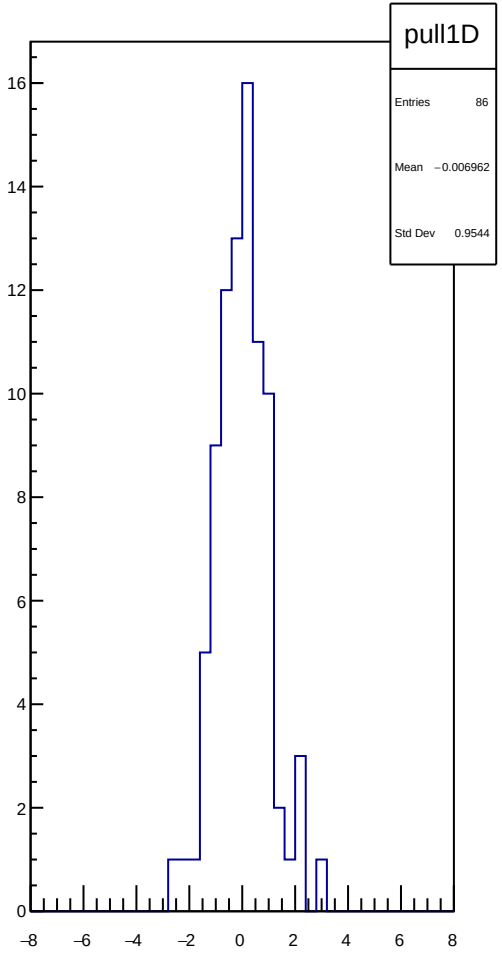

pull1D
Entries 86
Mean −0.02339
Std Dev 1.112

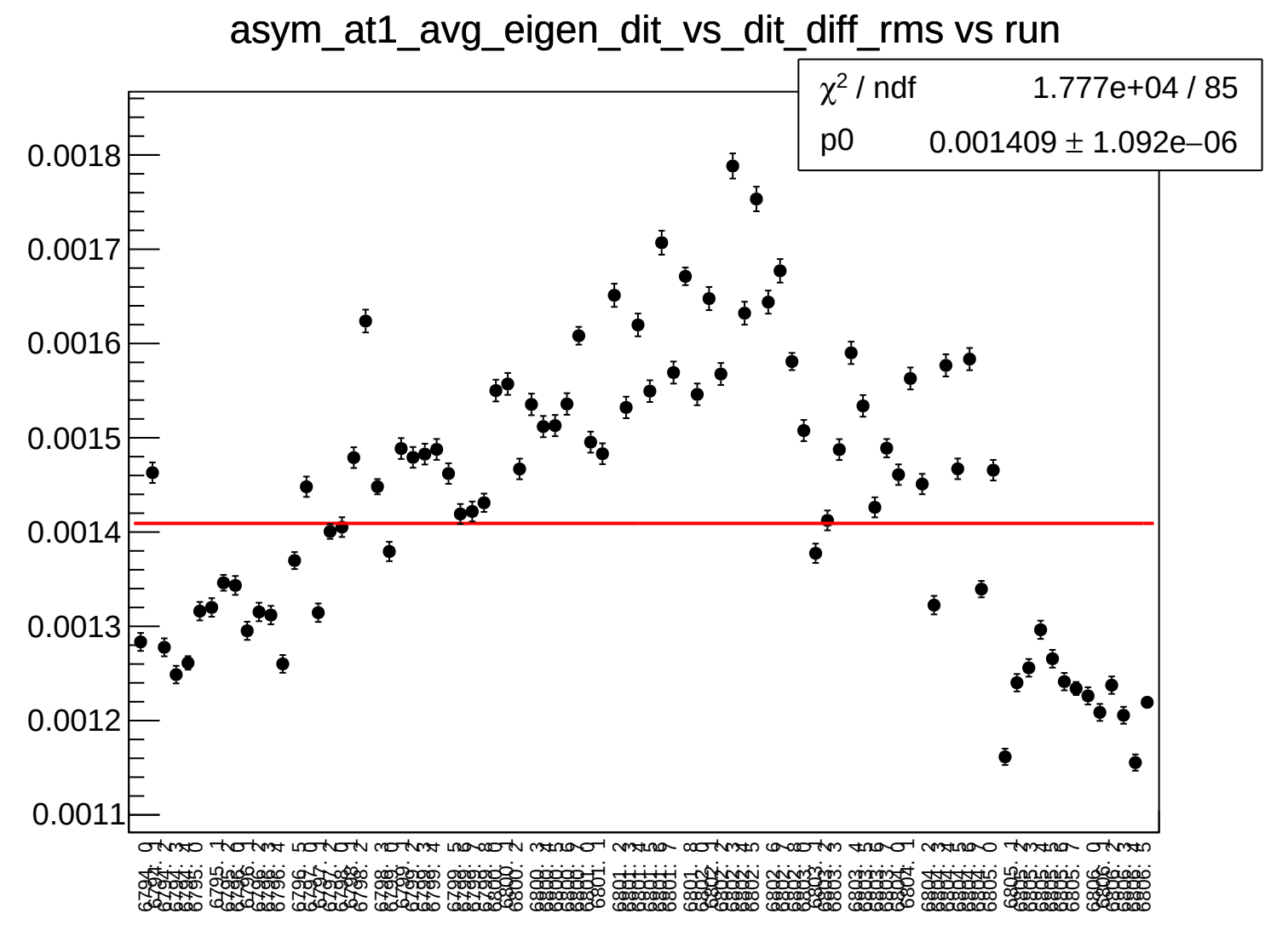

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.849e+05 / 85
p0 38.12 ± 0.03225
120
100
80
60
40
20

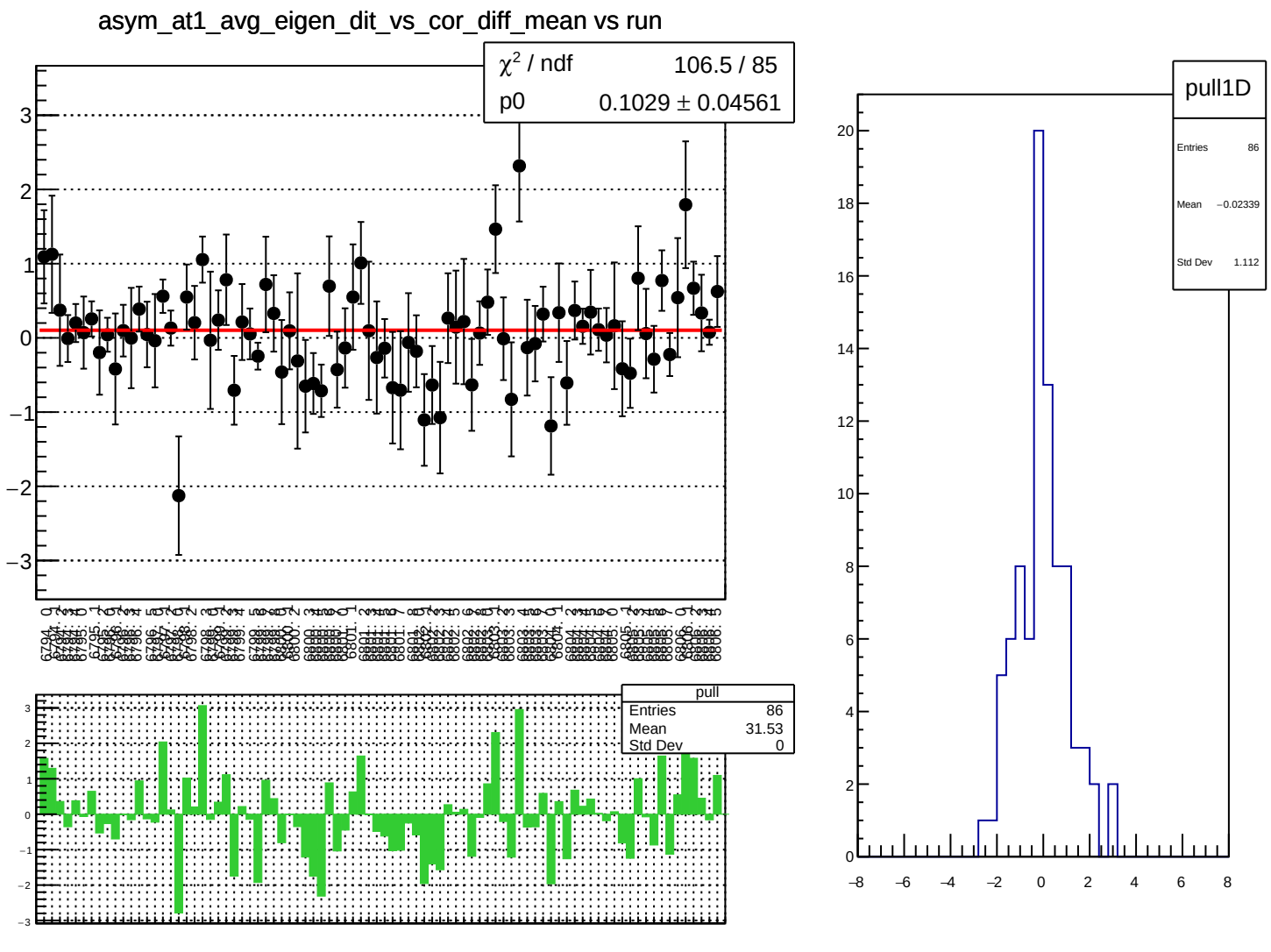

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 85
p0 0.1029 ± 0.04561
pull
Entries 86
Mean 31.52
Std Dev 0
pull1D
Entries 86
Mean −0.02339
Std Dev 1.112

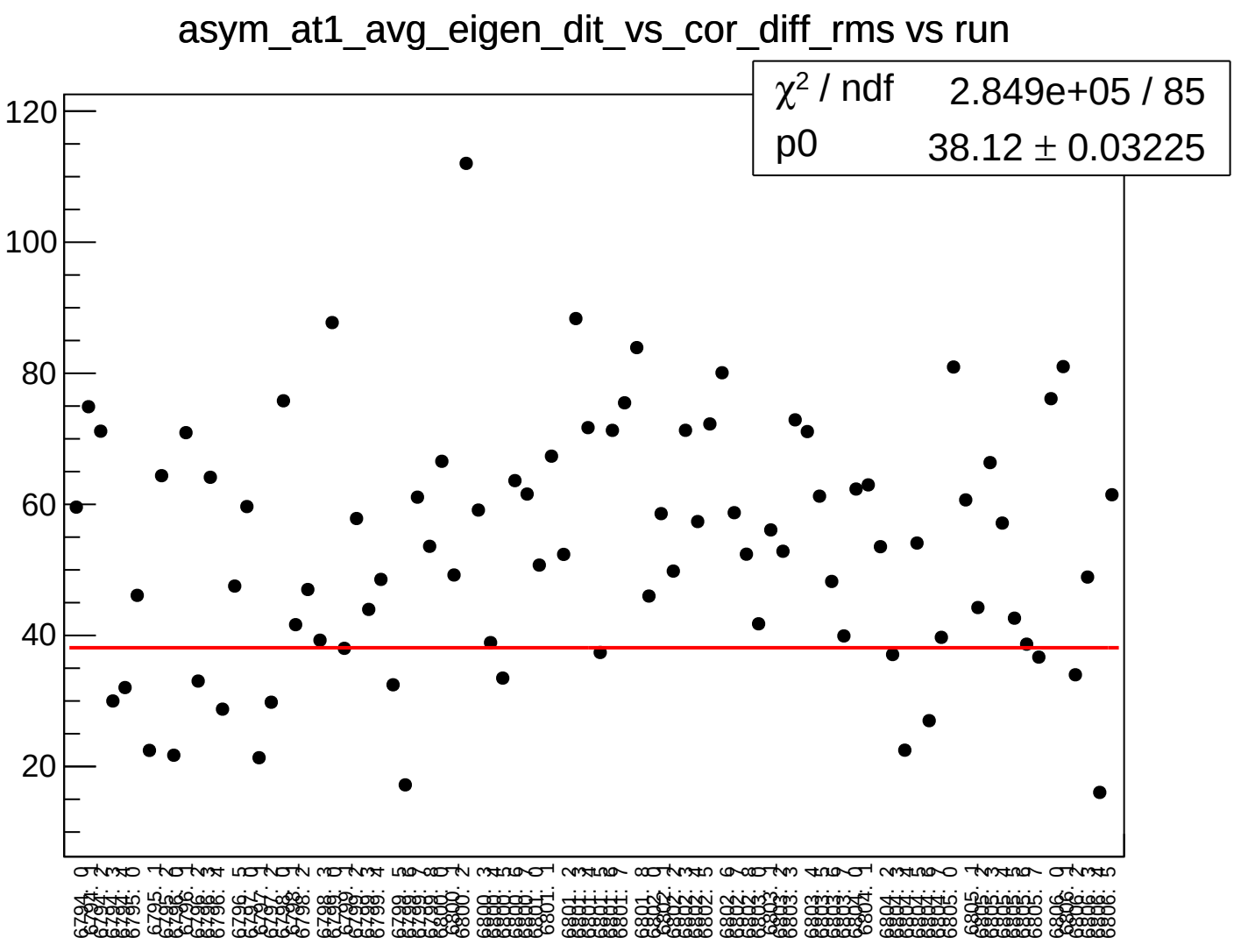

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.849e+05 / 85
p0 38.12 ± 0.03225
120
100
80
60
40
20

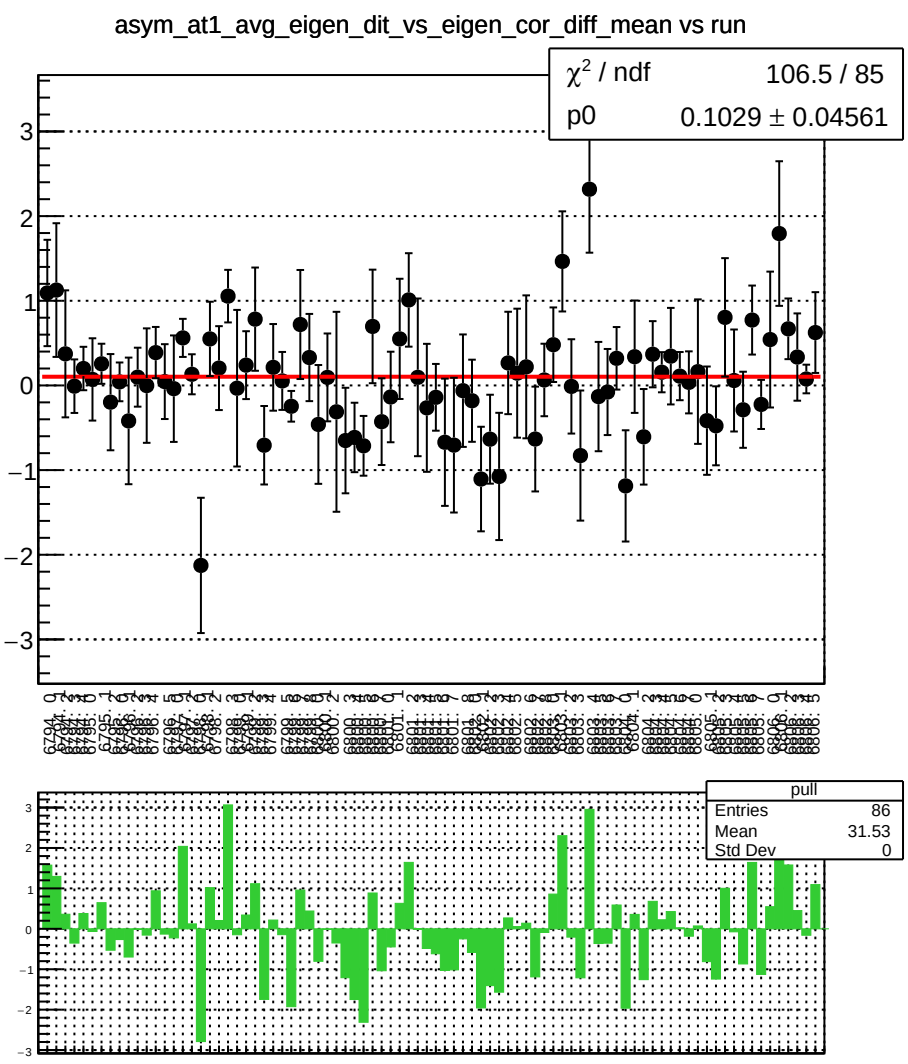

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.34 / 85
p0 −4.858e−07 ± 1.545e−06
pull
Entries 86
Mean −217.9
Std Dev 0

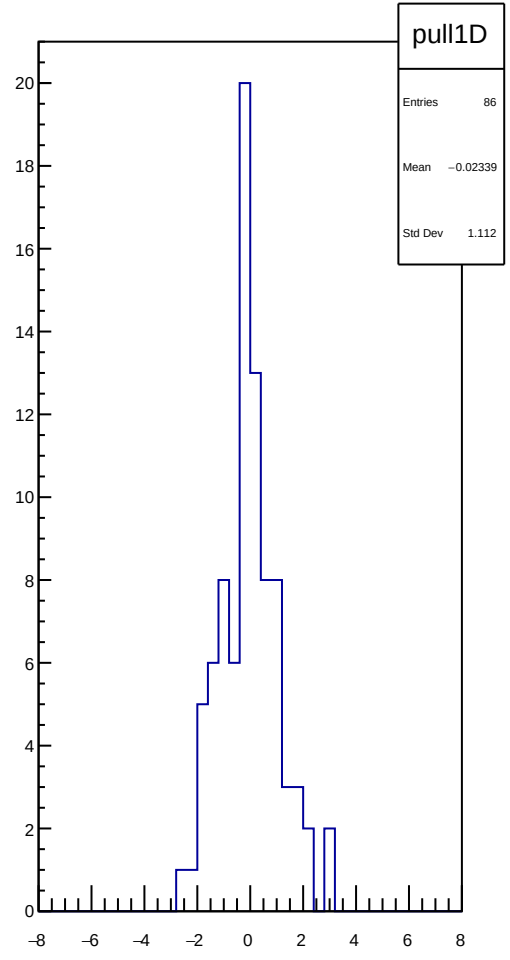

pull1D
Entries 86
Mean −0.006962
Std Dev 0.9544

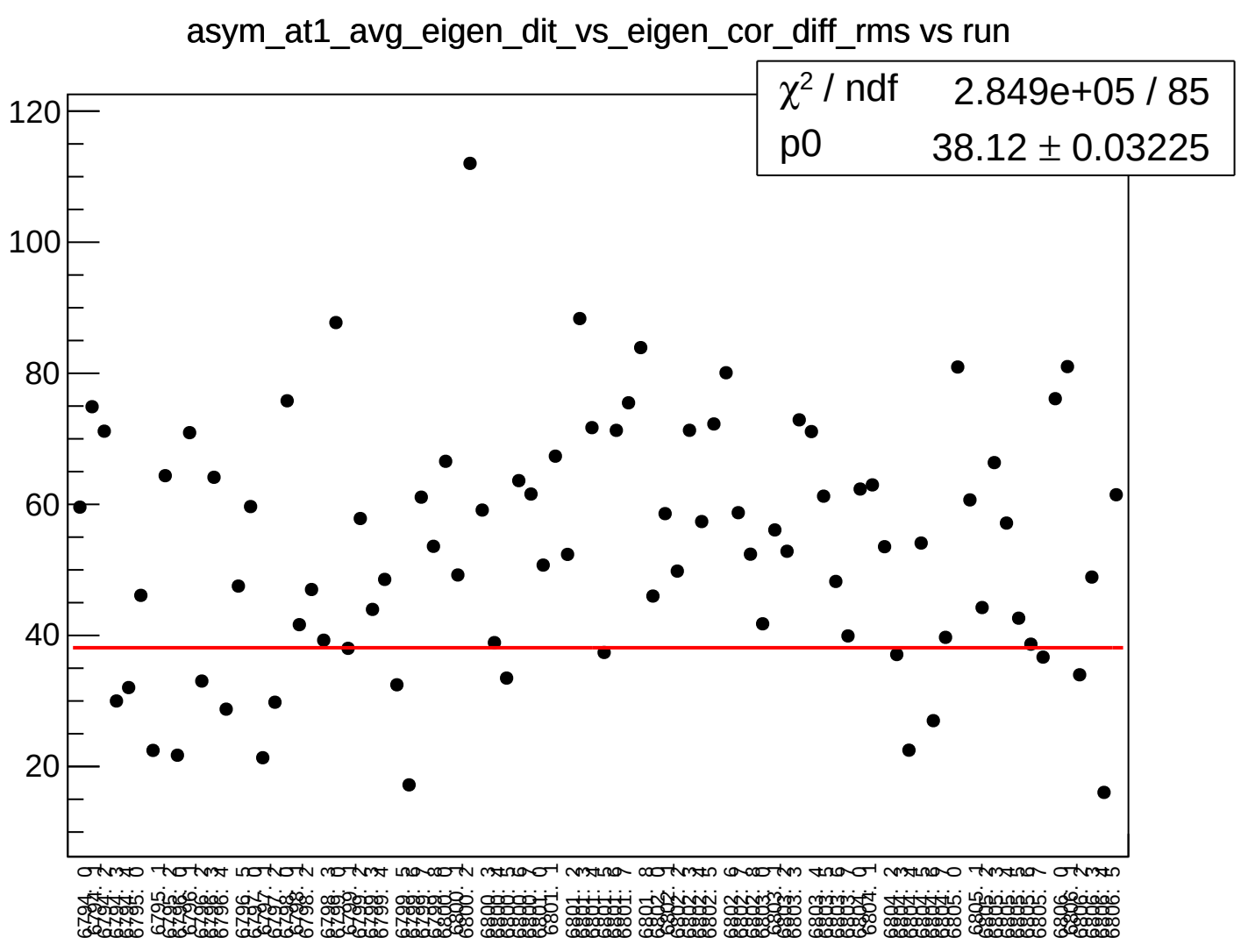

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.777e+04 / 85
p0 0.001409 ± 1.092e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

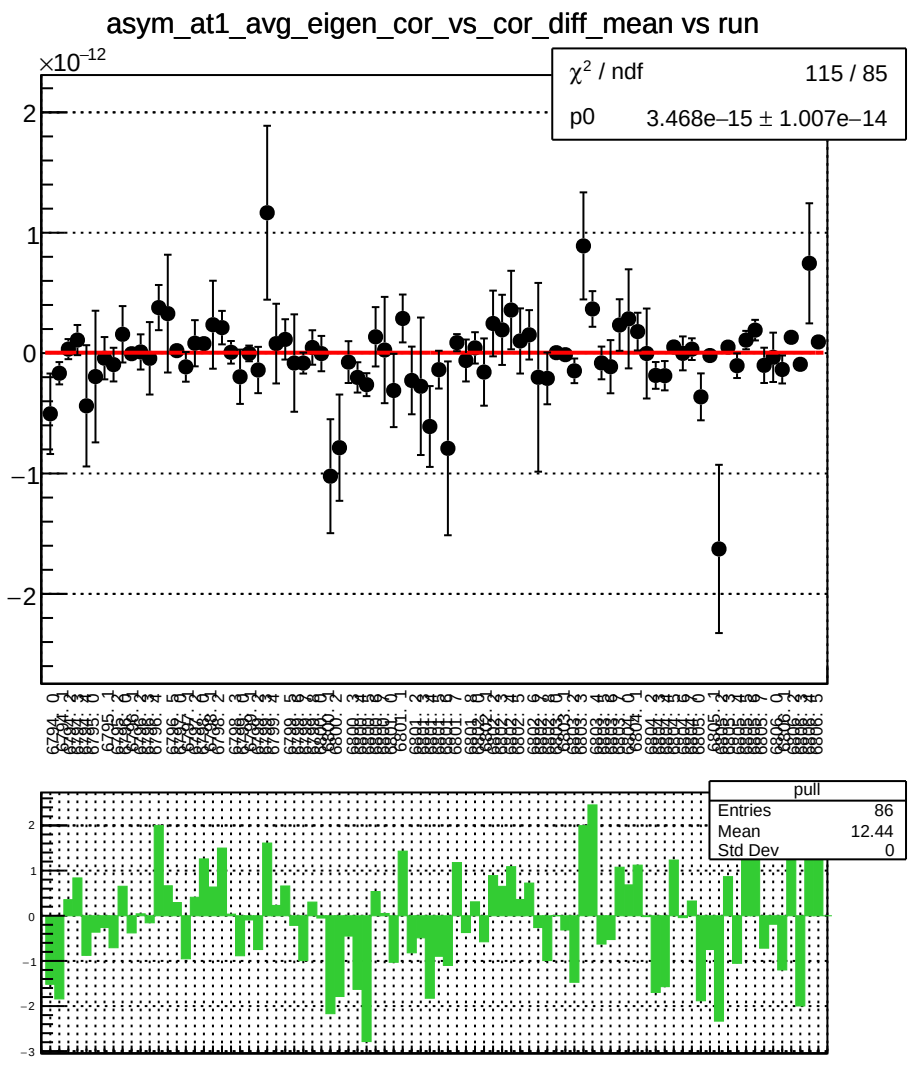

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.5 / 85
p0 0.1029 ± 0.04561
pull
Entries 86
Mean 31.53
Std Dev 0
pull1D
Entries 86
Mean −0.02339
Std Dev 1.112

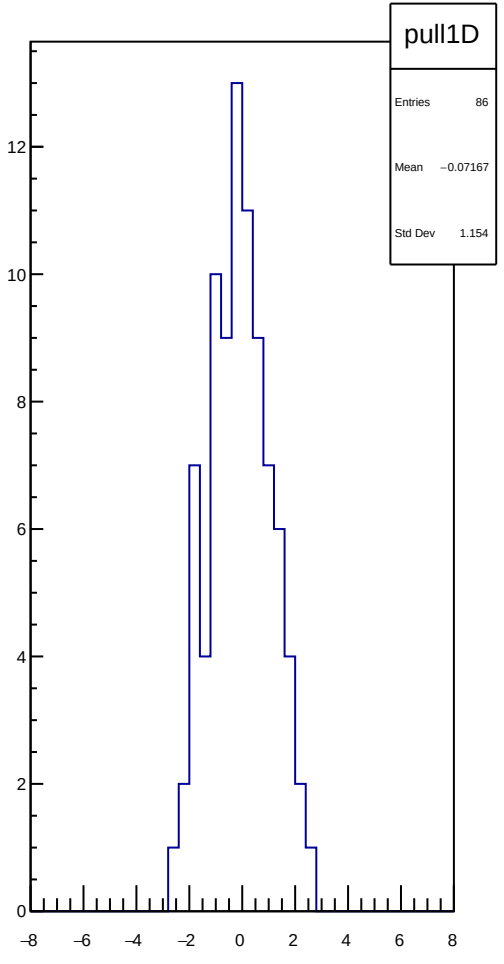

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.849e+05 / 85
p0 38.12 ± 0.03225
120
100
80
60
40
20

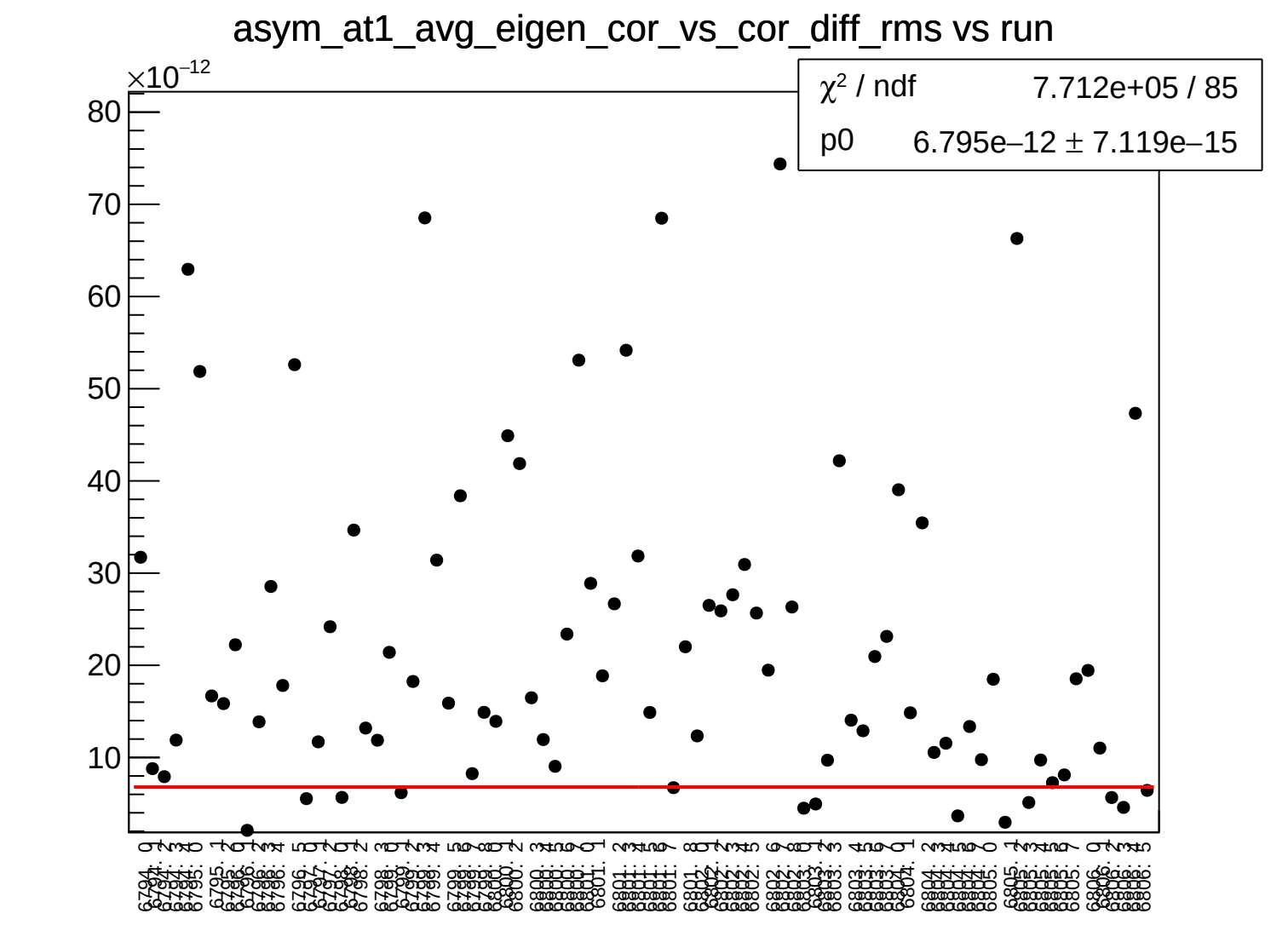

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.5 / 85
p0 0.1029 ± 0.04561
pull
Entries 86
Mean 31.53
Std Dev 0

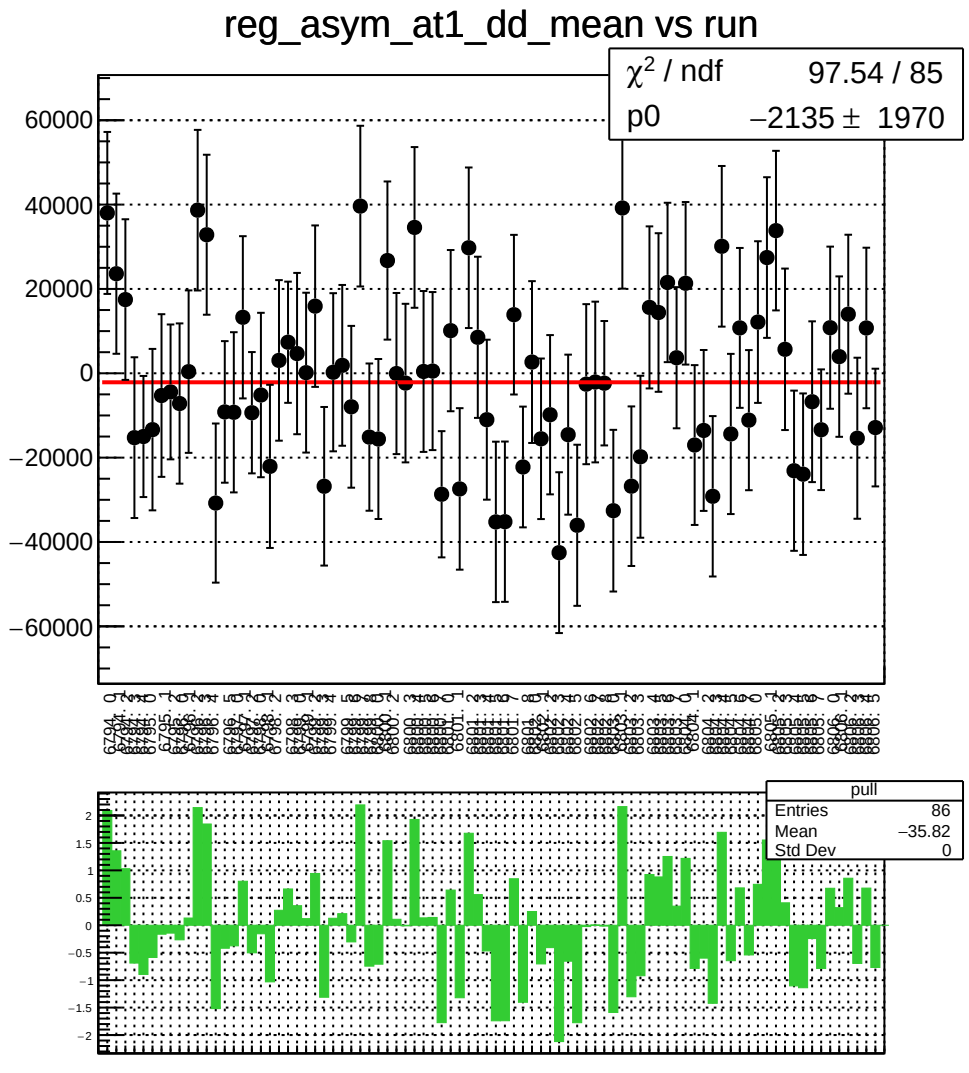

pull1D
Entries 86
Mean −0.02339
Std Dev 1.112

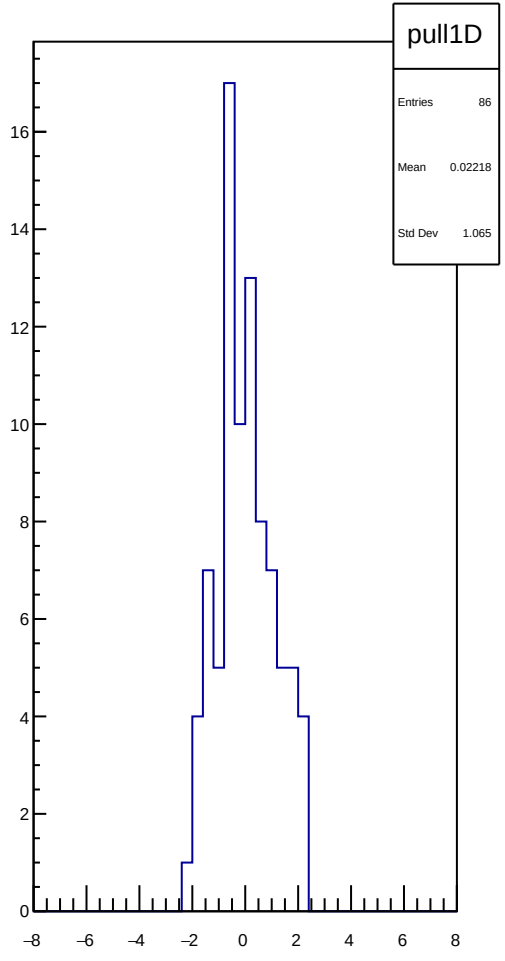

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.849e+05 / 85
p0 38.12 ± 0.03225
120
100
80
60
40
20

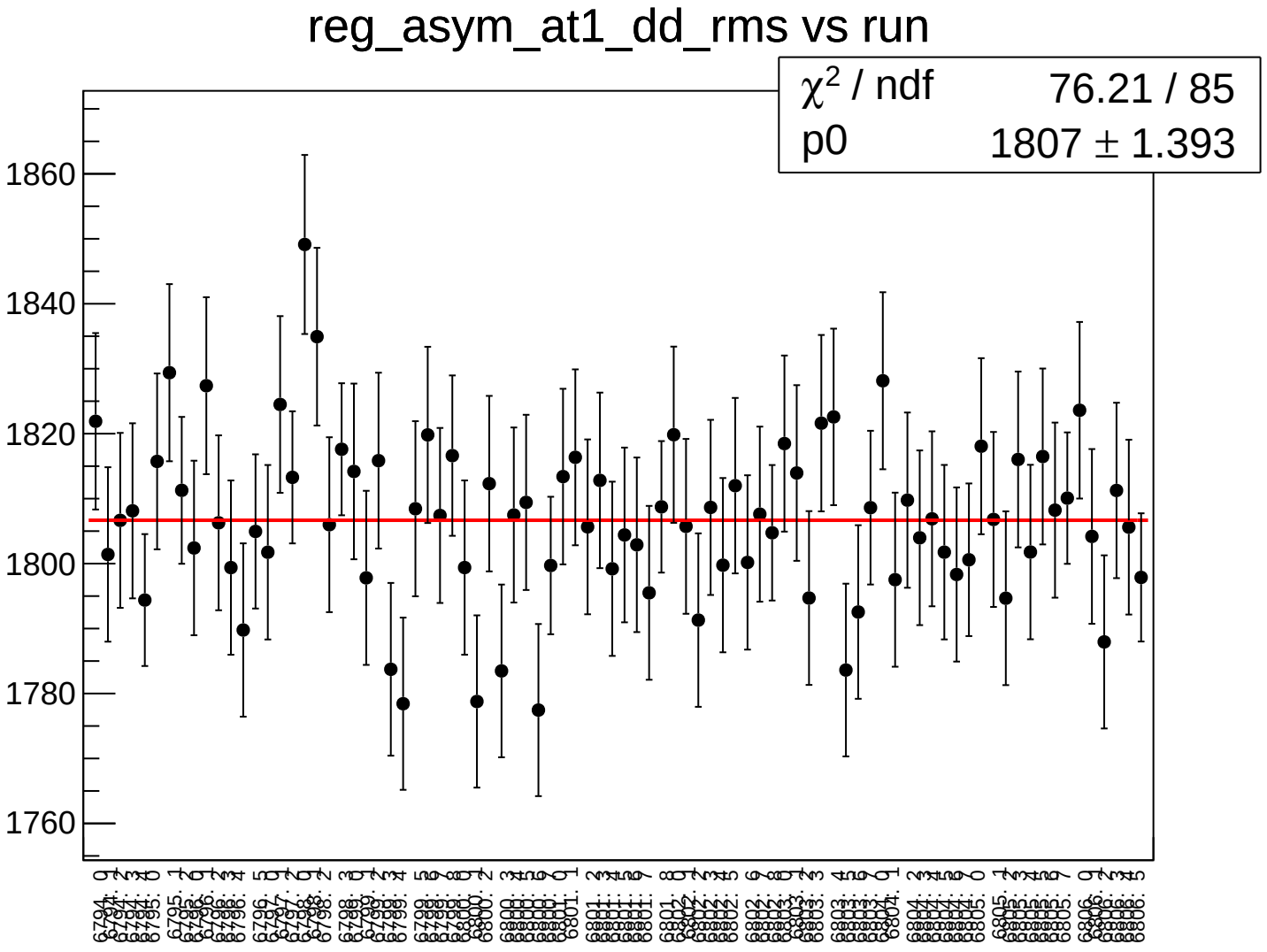

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115 / 85
p0 3.468e−15 ± 1.007e−14
pull
Entries 86
Mean 12.44
Std Dev 0

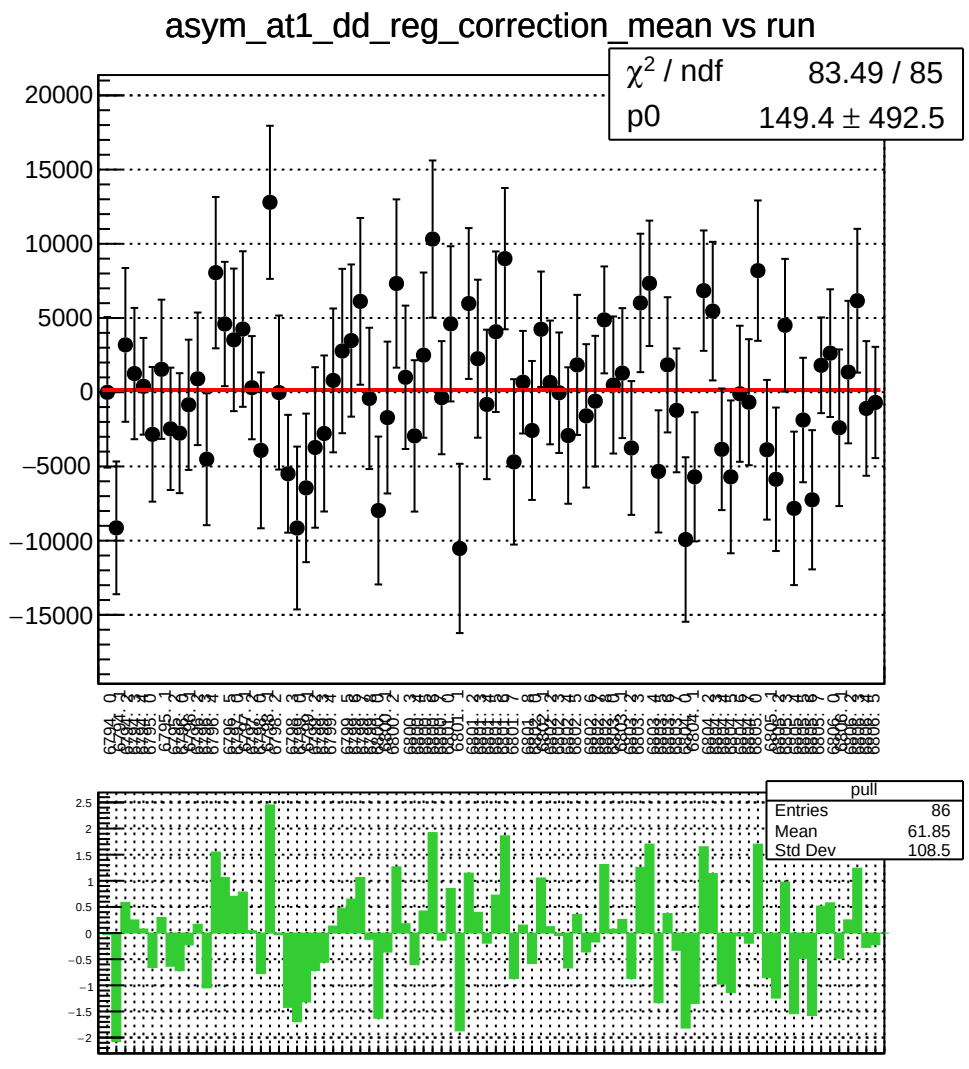

pull1D
Entries 86
Mean −0.07167
Std Dev 1.154

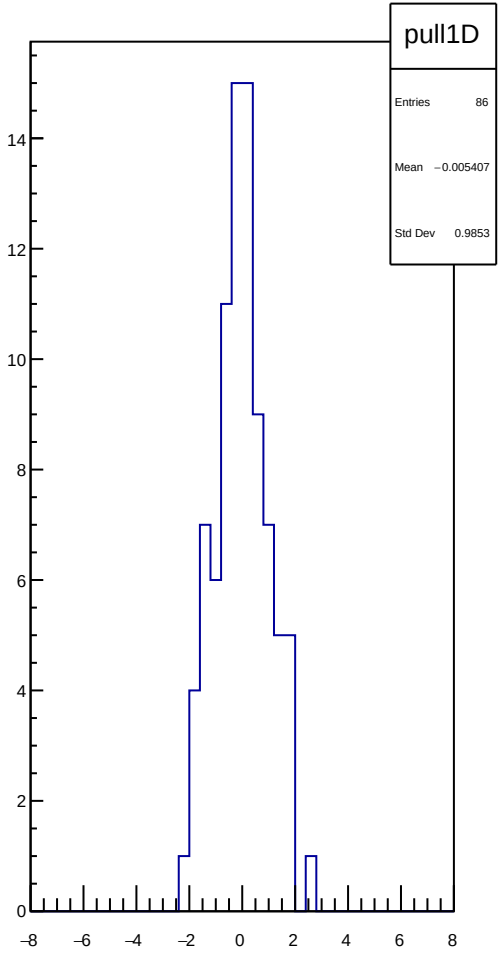

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.712e+05 / 85
p0 6.795e−12 ± 7.119e−15
80
70
60
50
40
30
20
10

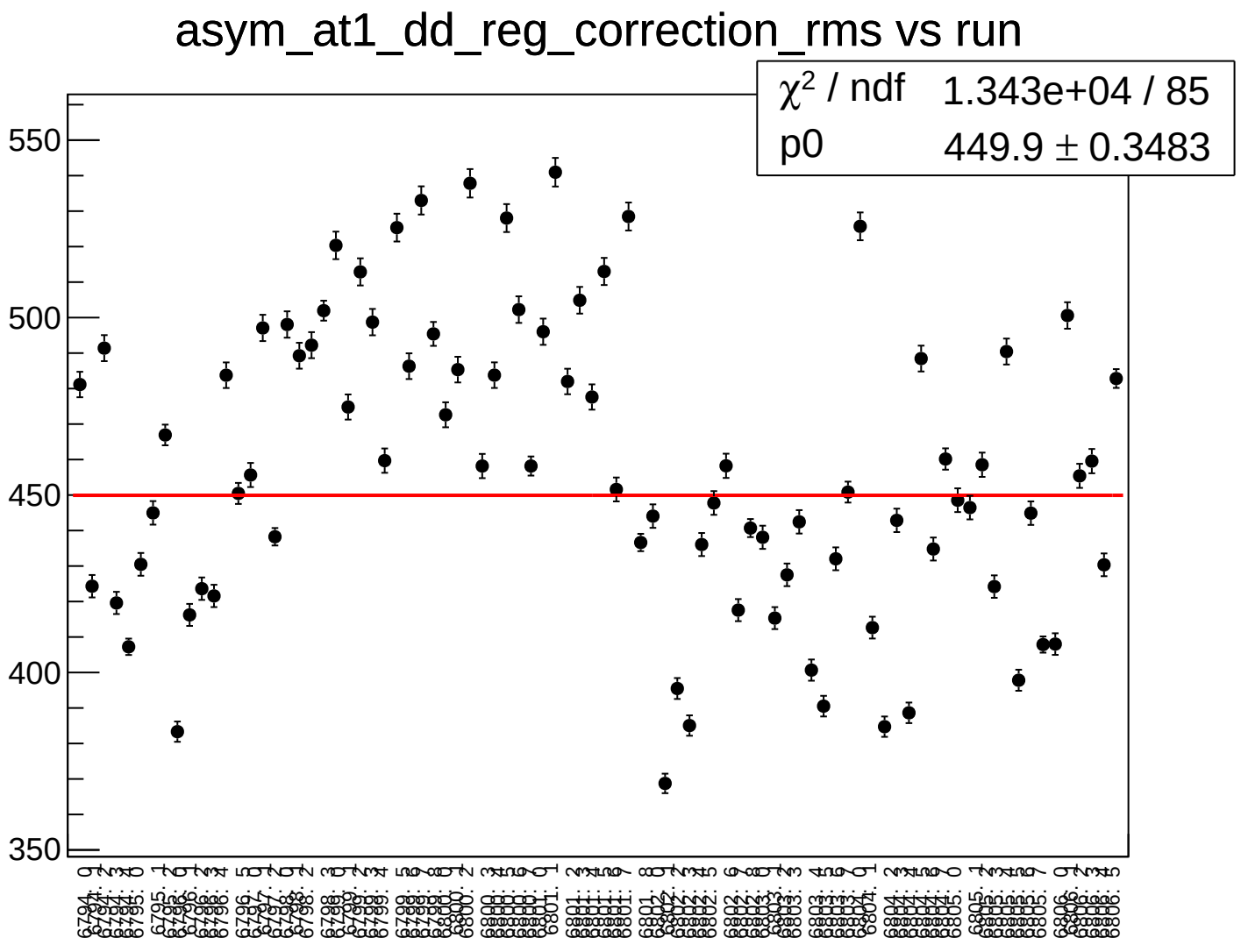

reg_asym_at1_dd_mean vs run
χ² / ndf 97.54 / 85
p0 −2135 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −35.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

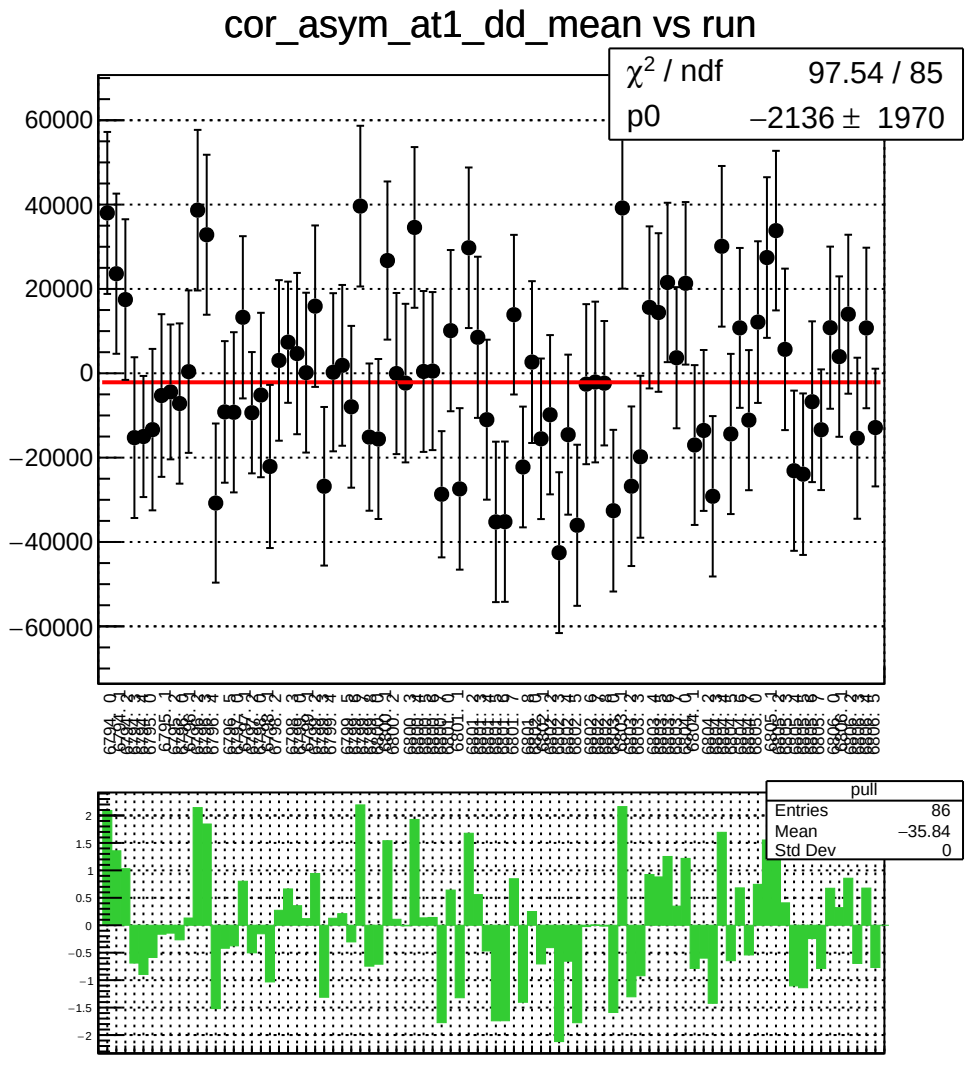

pull1D
Entries 86
Mean 0.02218
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

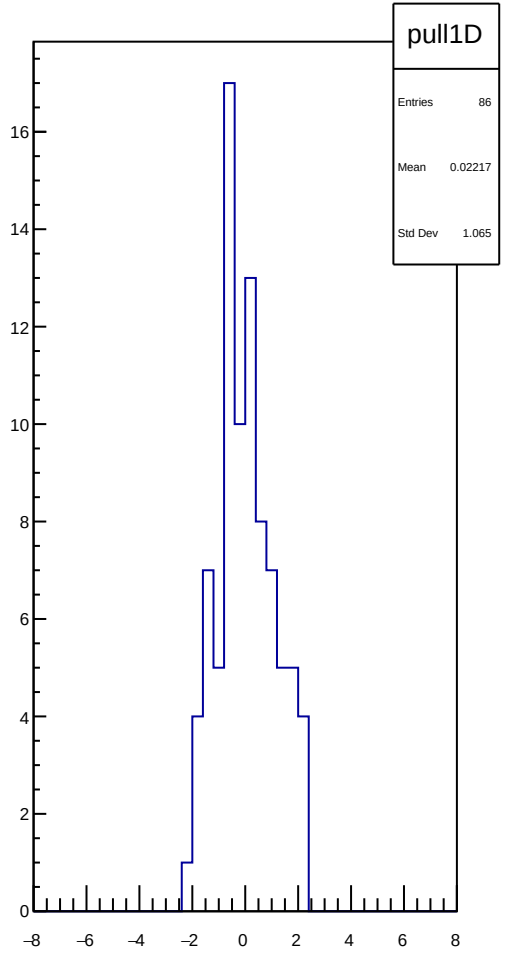

reg_asym_at1_dd_rms vs run
χ² / ndf 76.21 / 85
p0 1807 ± 1.393
1860
1840
1820
1800
1780
1760

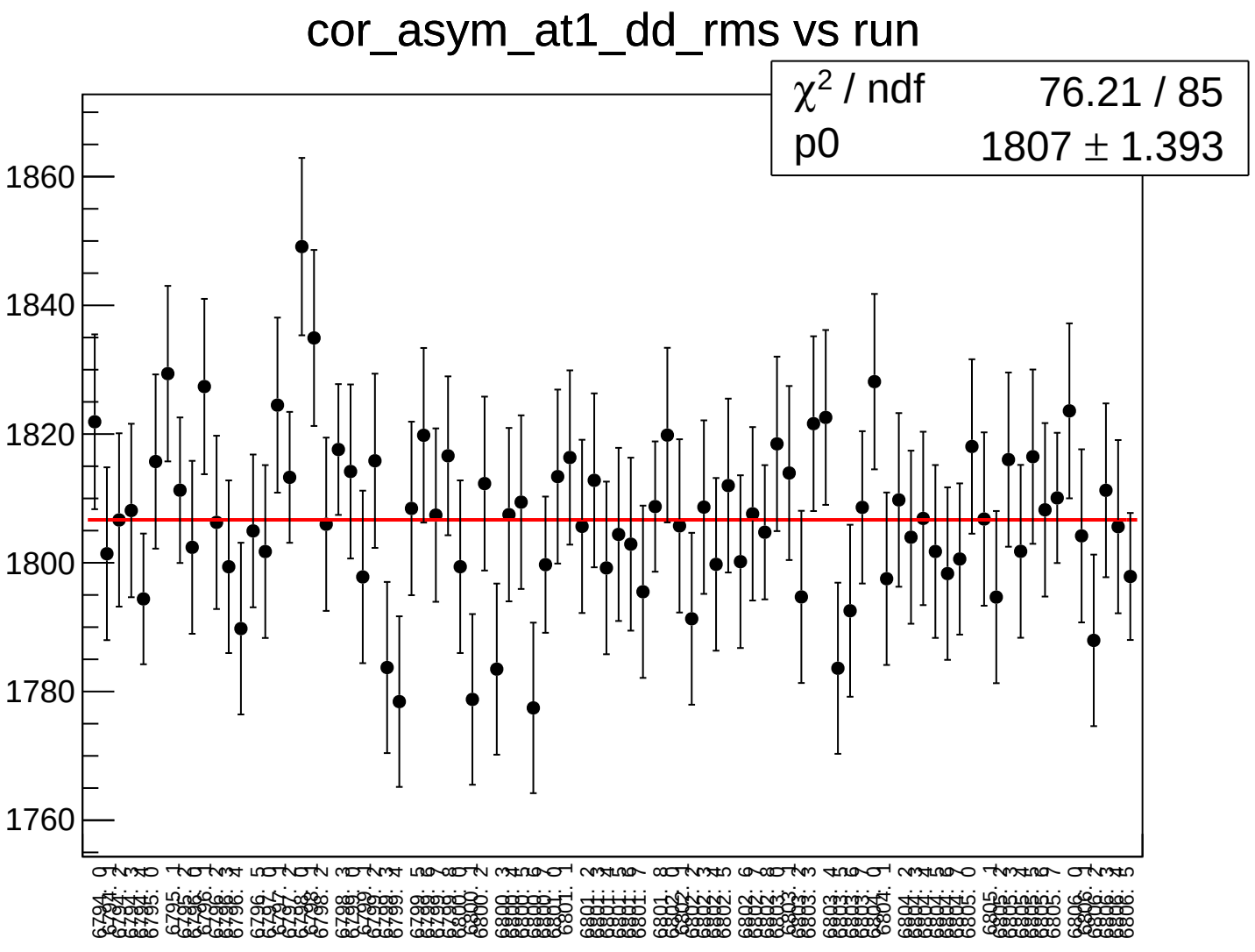

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 83.49 / 85
p0 149.4 ± 492.5
pull
Entries 86
Mean 61.85
Std Dev 108.5

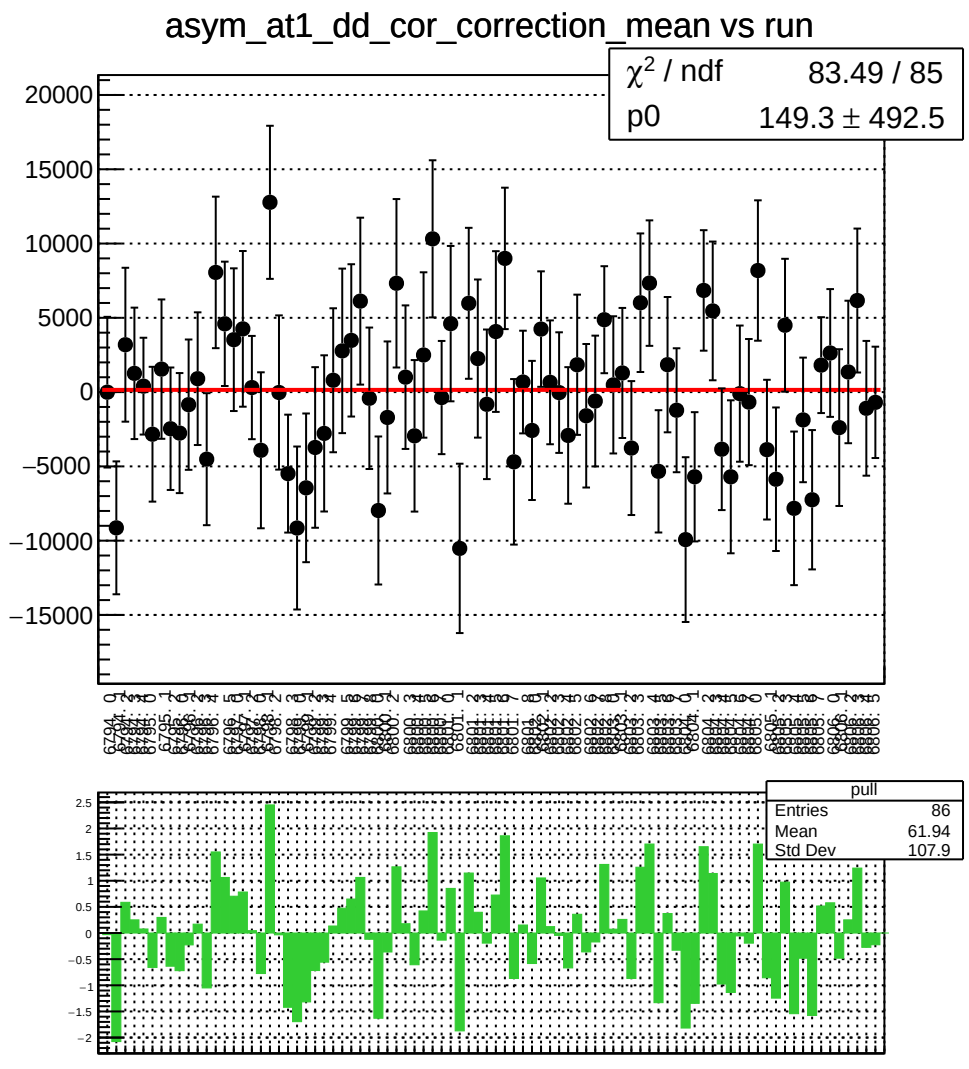

pull1D
Entries 86
Mean −0.005407
Std Dev 0.9853

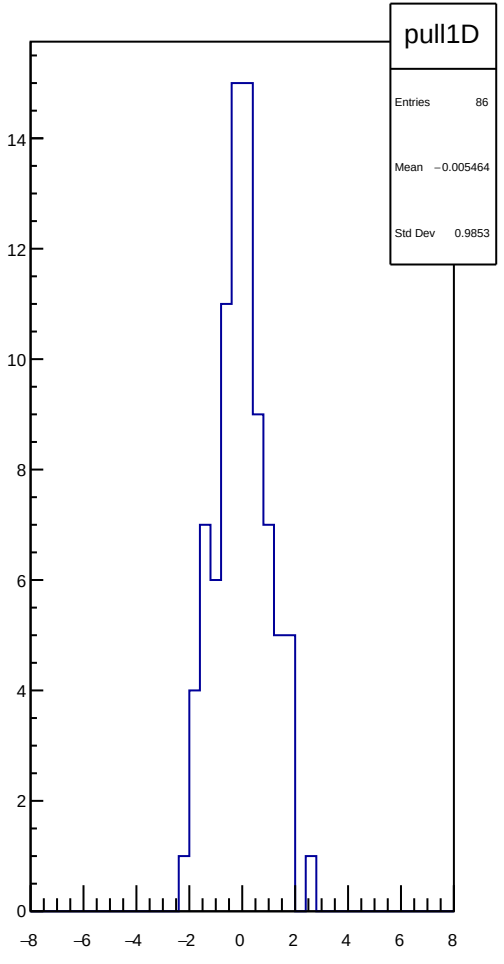

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.343e+04 / 85
p0 449.9 ± 0.3483
550
500
450
400
350

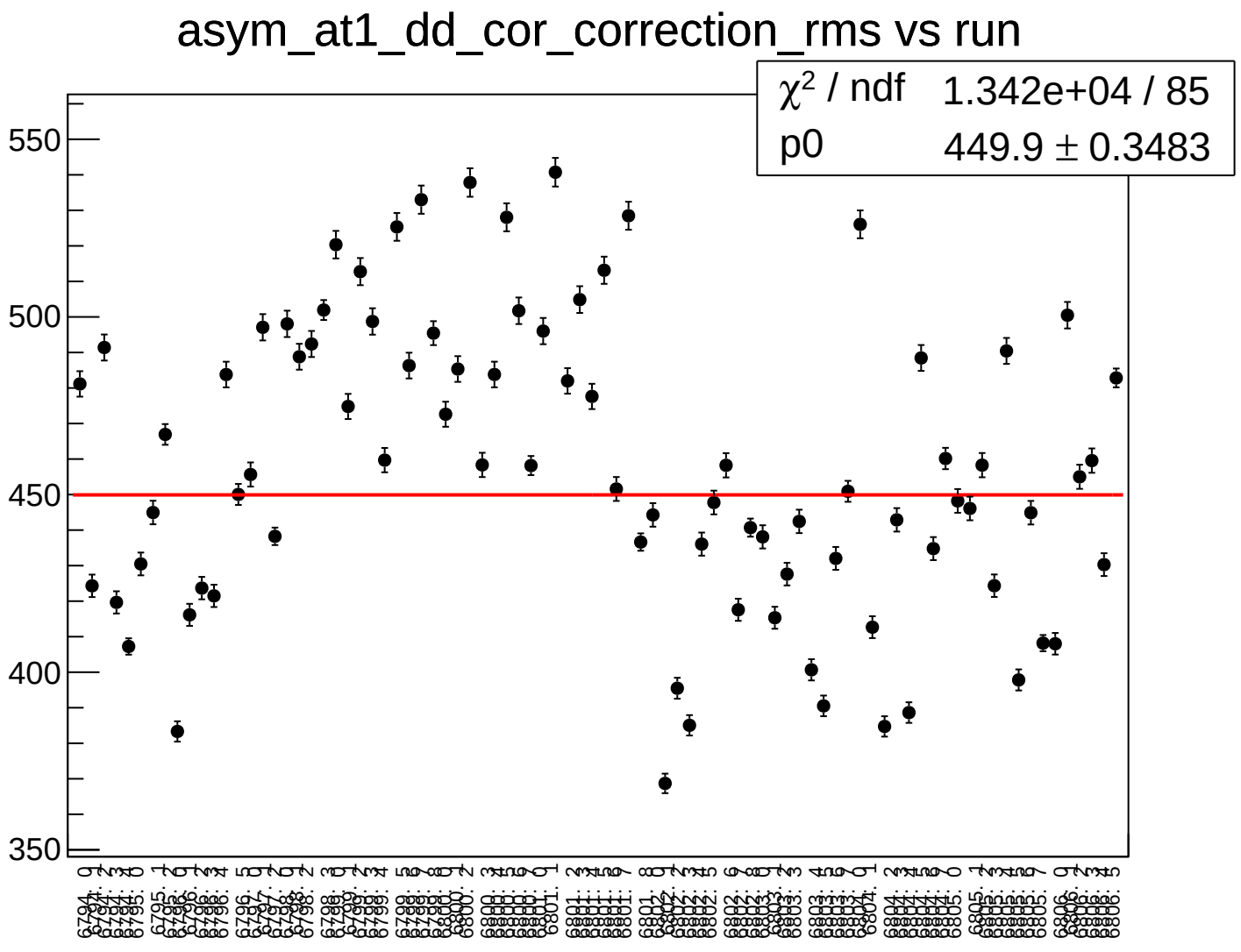

cor_asym_at1_dd_mean vs run
χ² / ndf 97.54 / 85
p0 −2136 ± 1970
pull
Entries 86
Mean −35.84
Std Dev 0

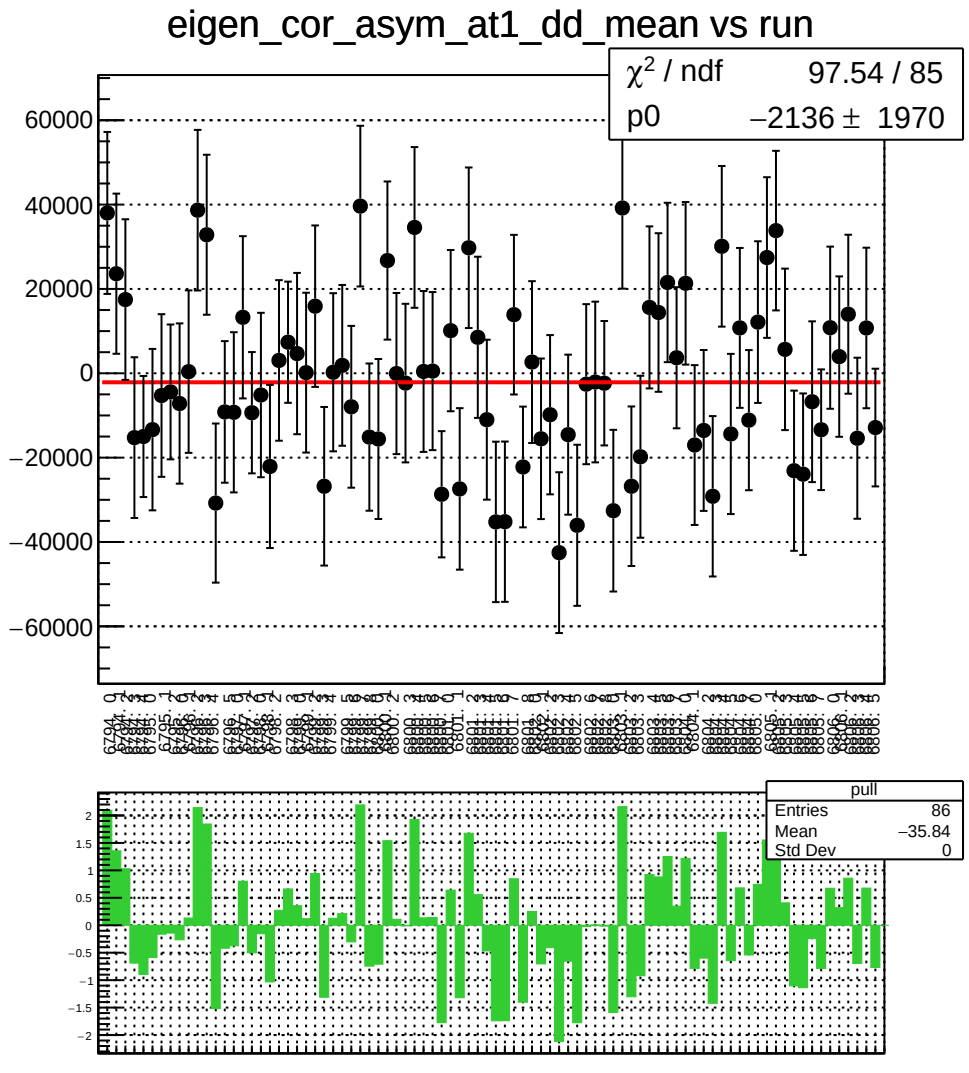

pull1D
Entries 86
Mean 0.02217
Std Dev 1.065

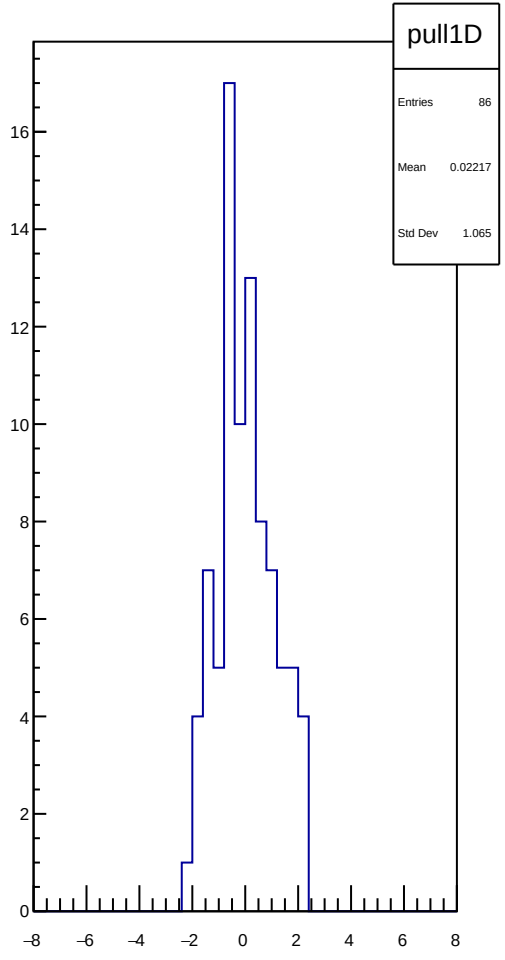

cor_asym_at1_dd_rms vs run
χ² / ndf 76.21 / 85
p0 1807 ± 1.393
1860
1840
1820
1800
1780
1760

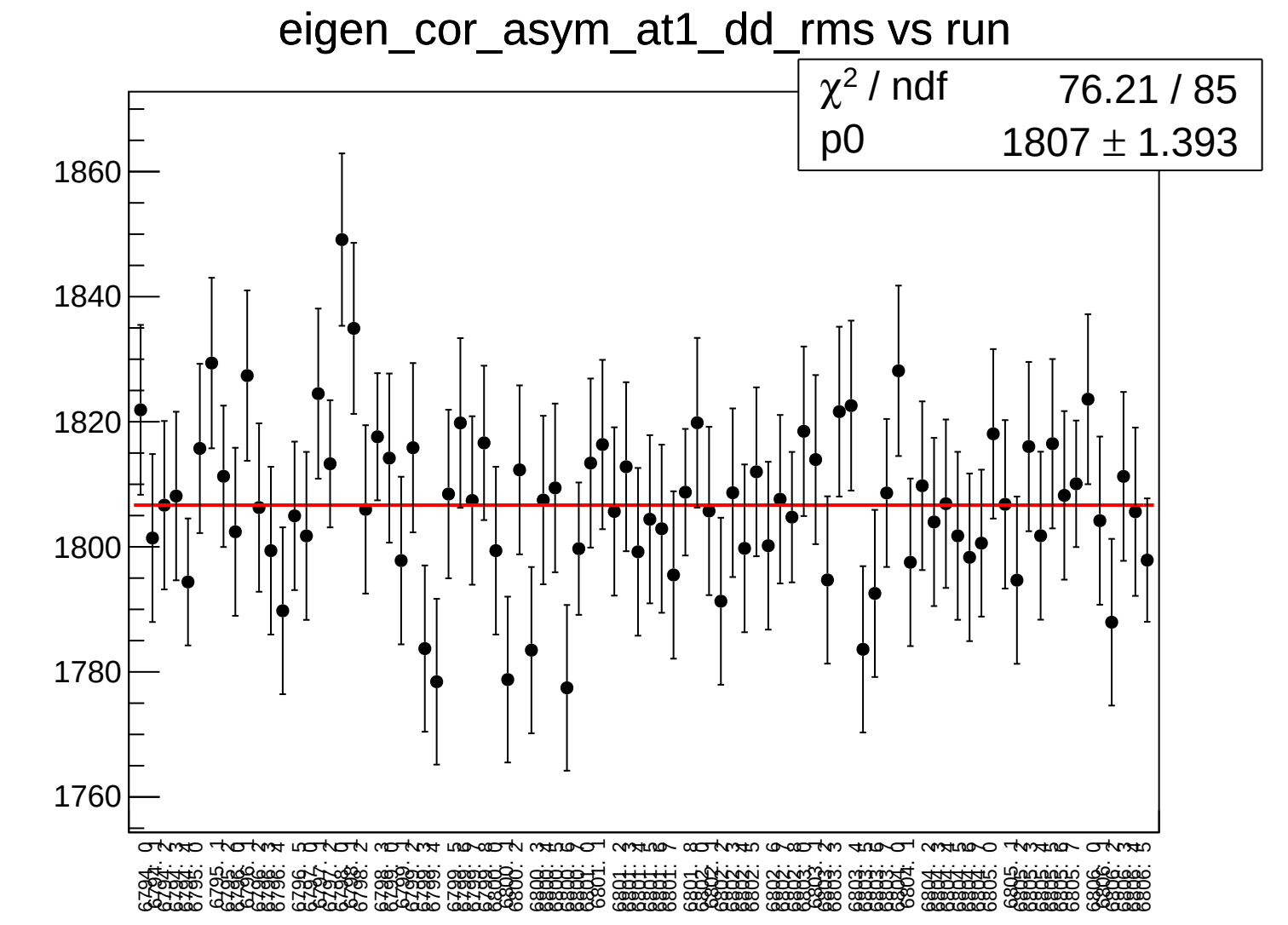

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 83.49 / 85
p0 149.3 ± 492.5
pull
Entries 86
Mean 61.94
Std Dev 107.9

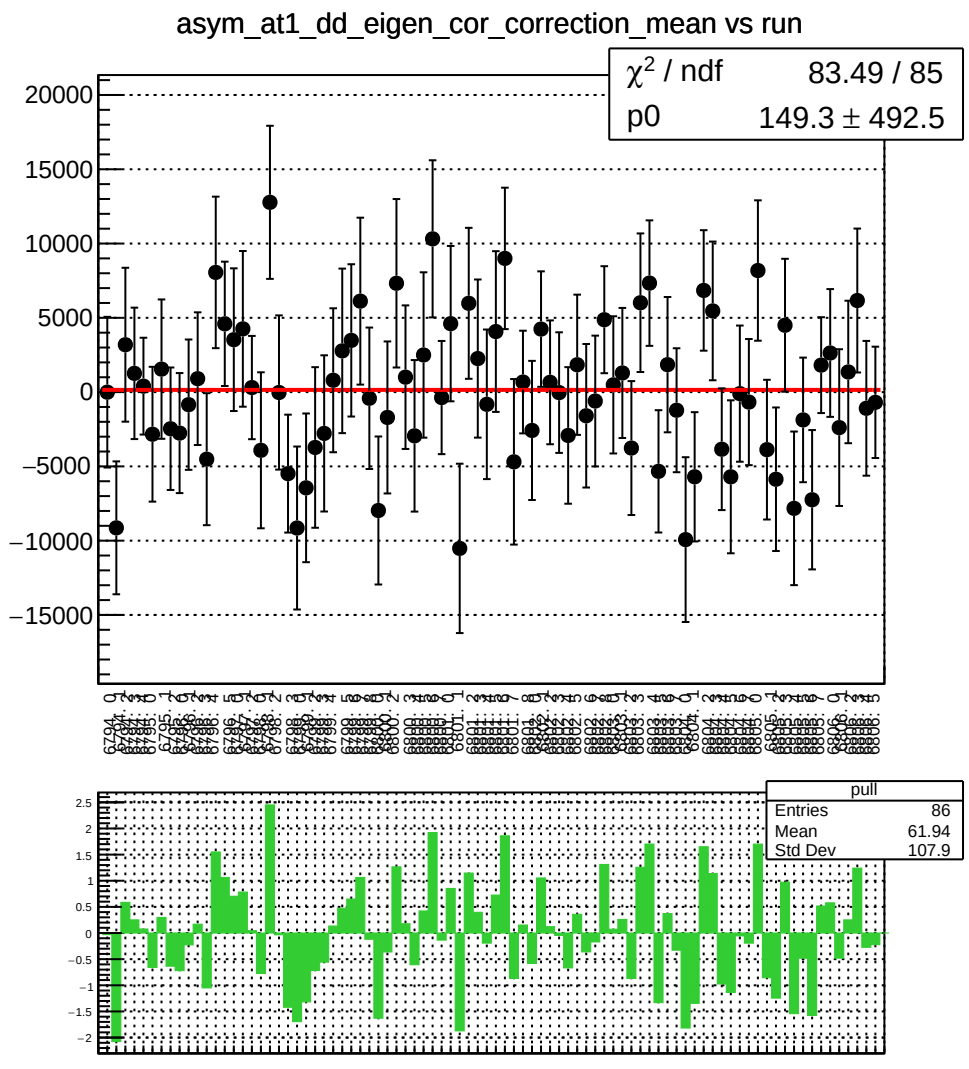

pull1D
Entries 86
Mean −0.005464
Std Dev 0.9853

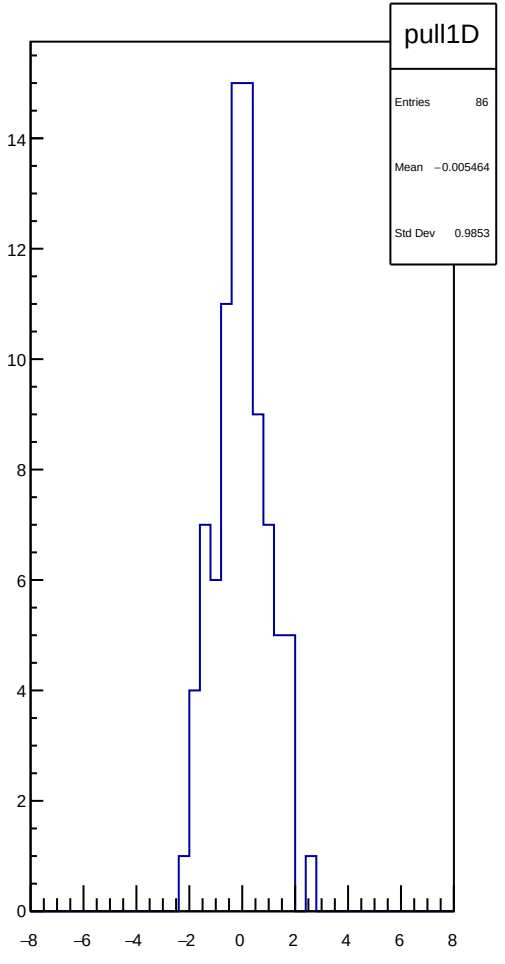

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.342e+04 / 85
p0 449.9 ± 0.3483
550
500
450
400
350

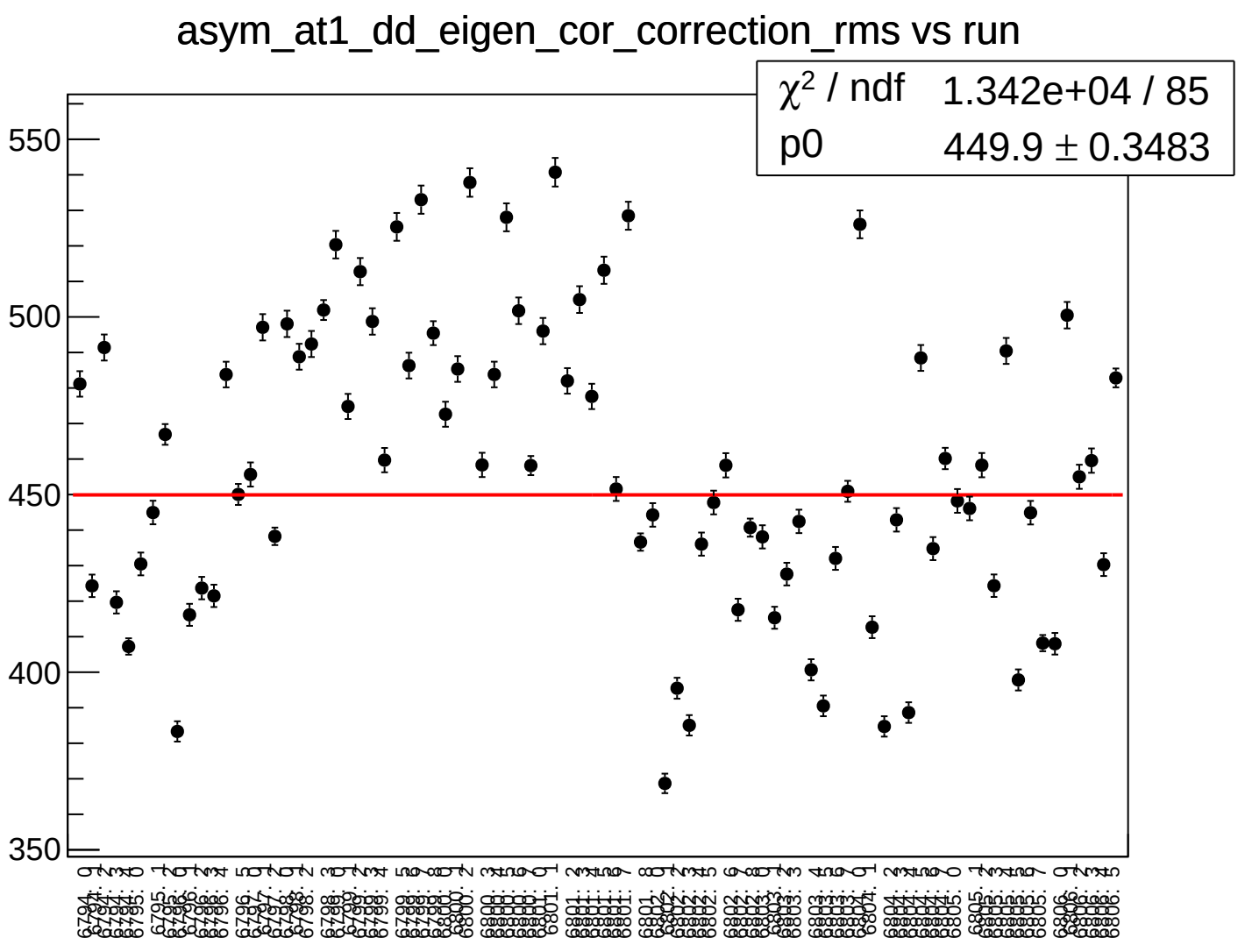

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 97.54 / 85
p0 −2136 ± 1970
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −35.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

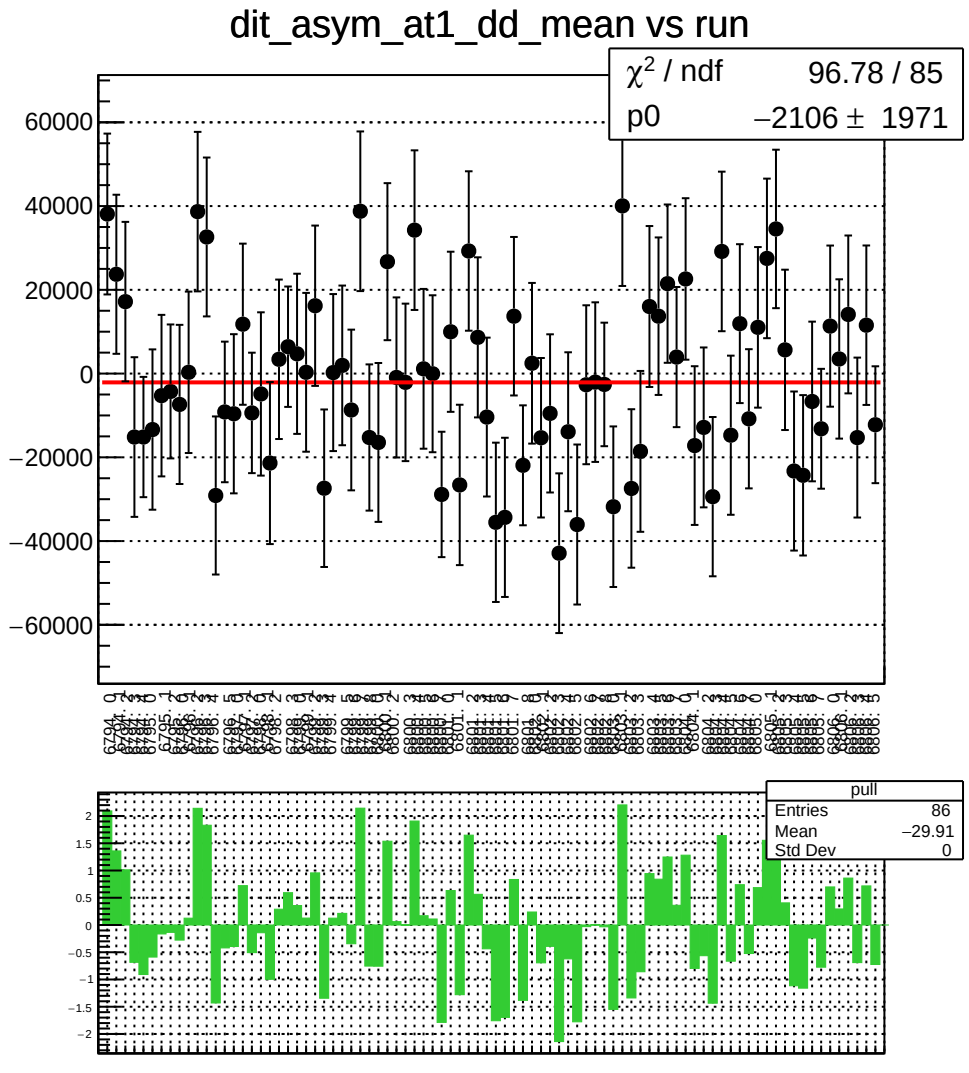

pull1D
Entries 86
Mean 0.02217
Std Dev 1.065
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

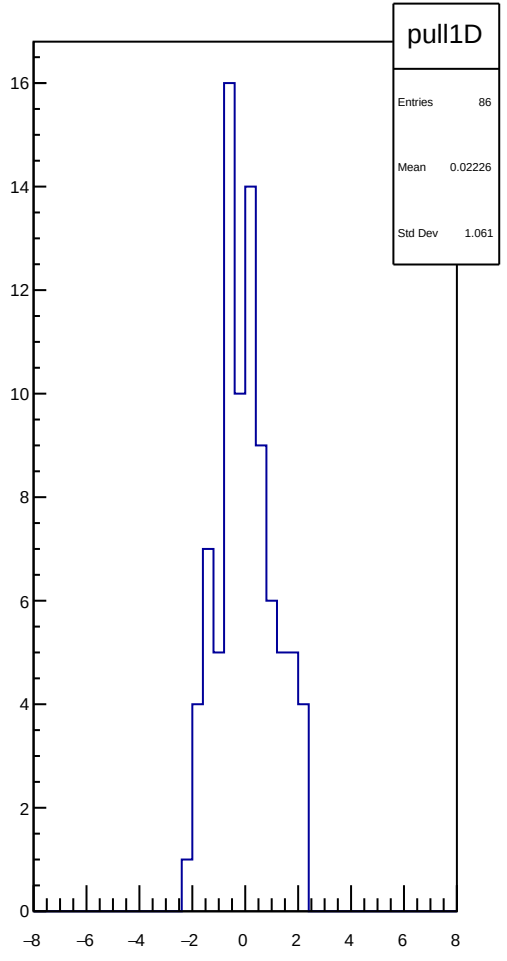

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 76.21 / 85
p0 1807 ± 1.393
1860
1840
1820
1800
1780
1760

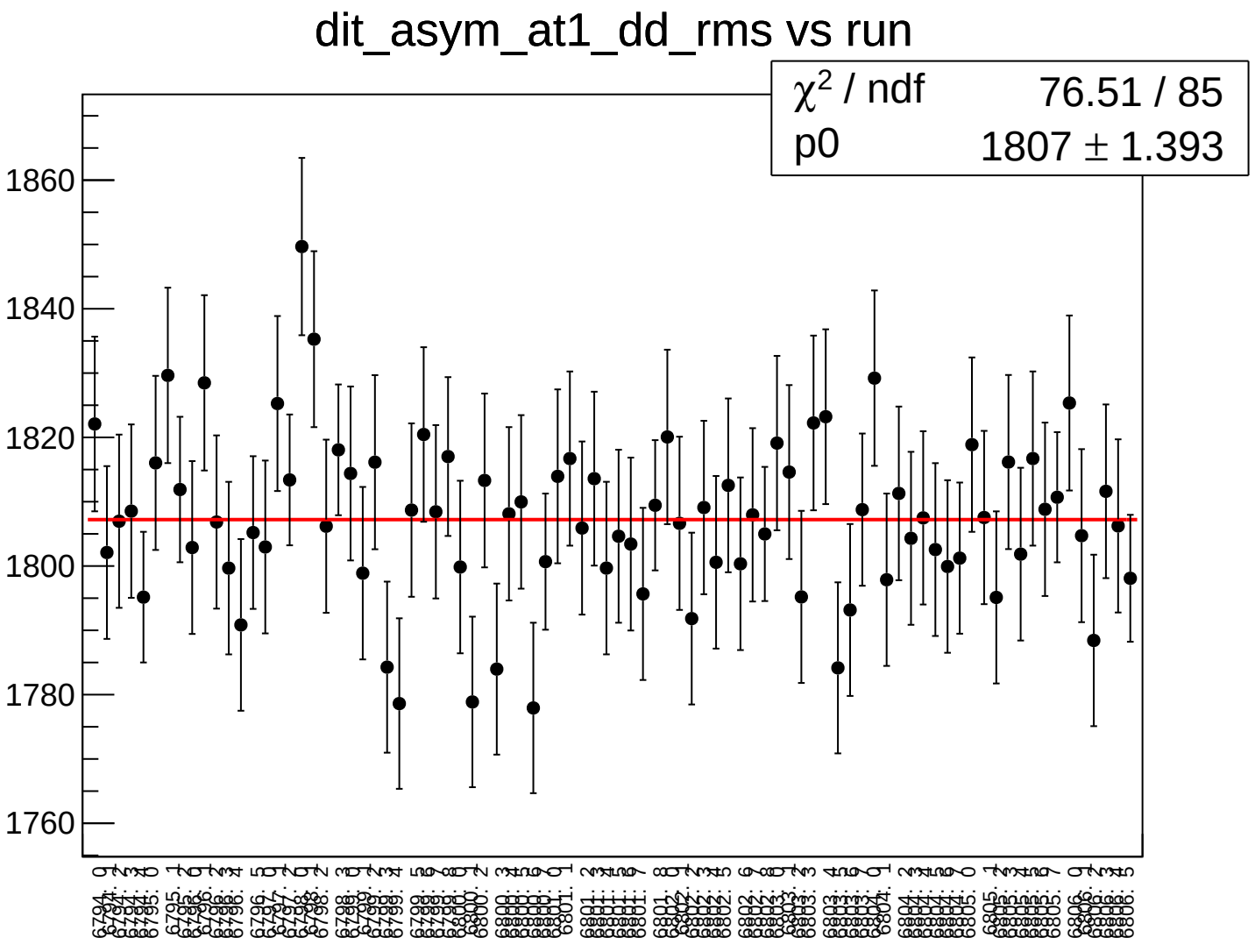

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.49 / 85
p0 149.3 ± 492.5
pull
Entries 86
Mean 61.94
Std Dev 107.9

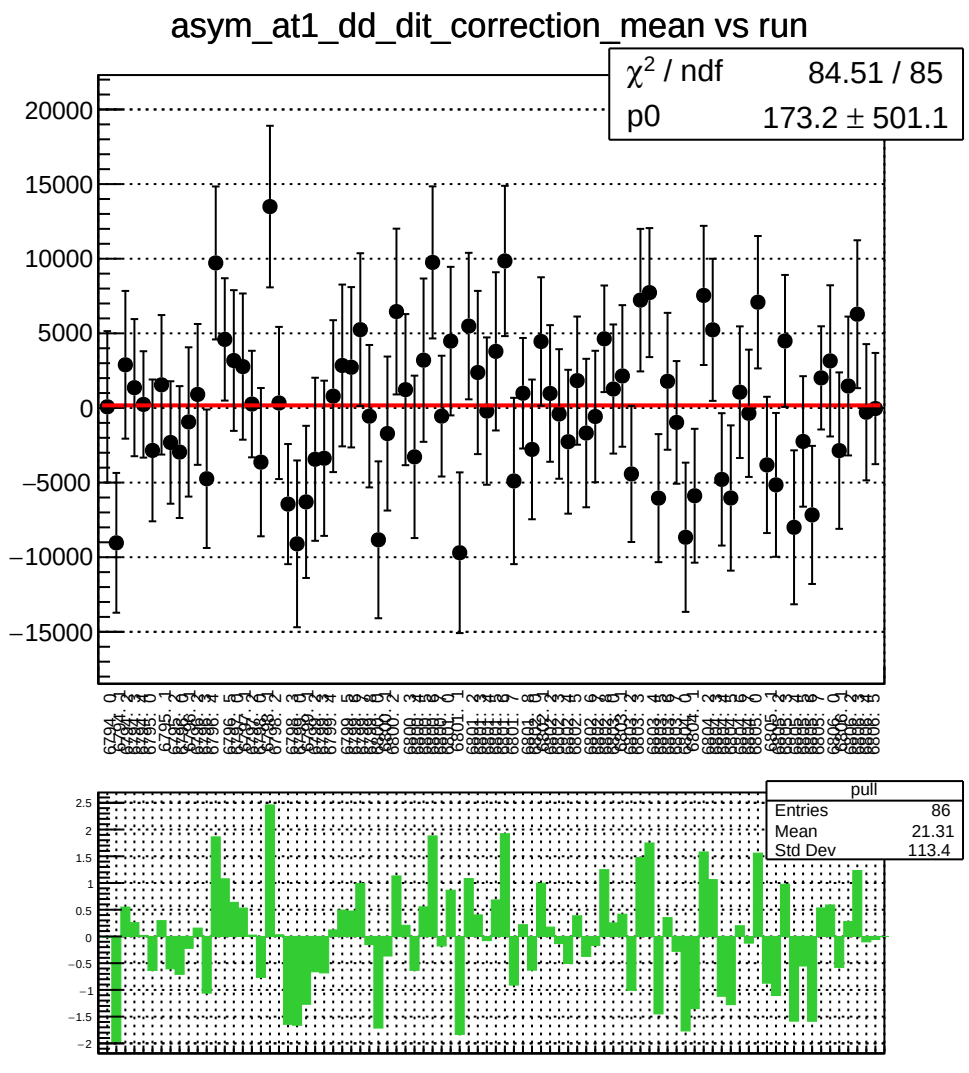

pull1D
Entries 86
Mean −0.005464
Std Dev 0.9853

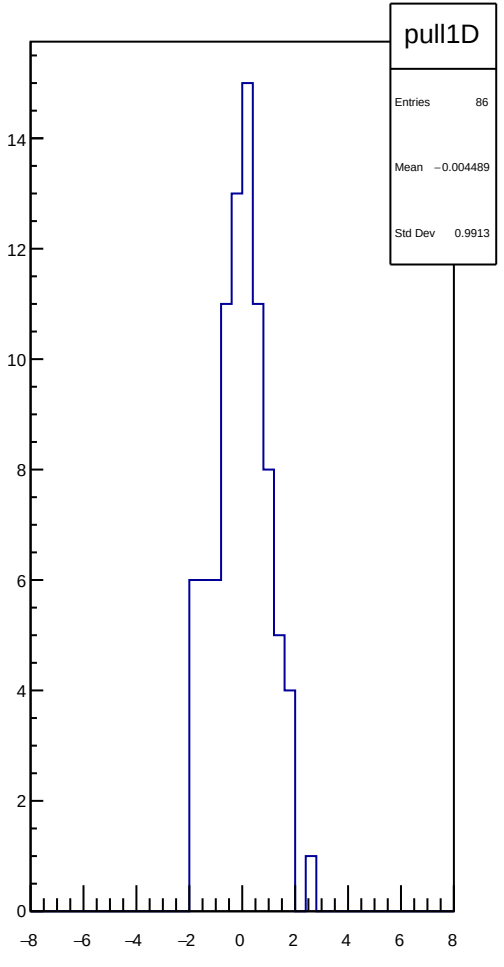

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.342e+04 / 85
p0 449.9 ± 0.3483
550
500
450
400
350

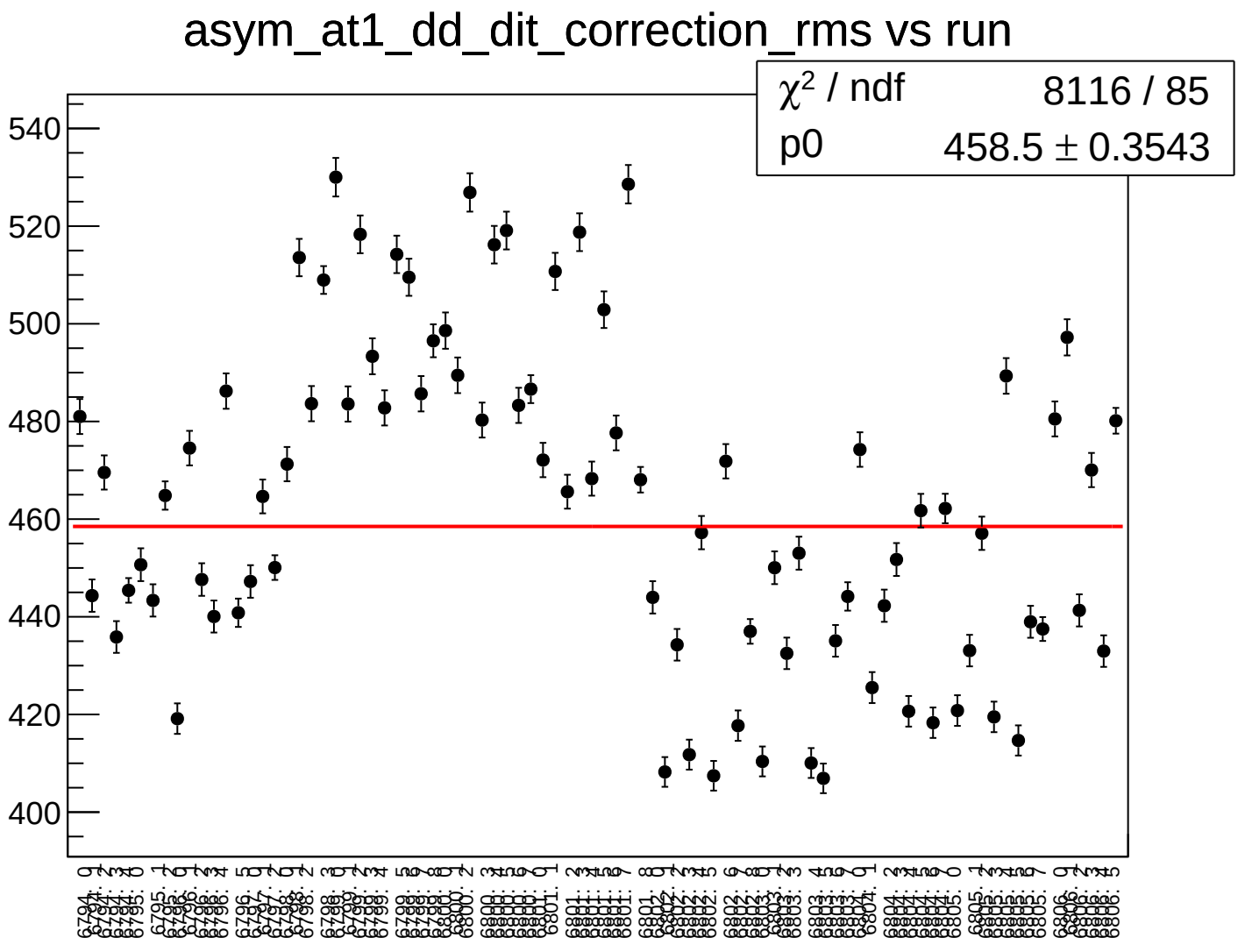

dit_asym_at1_dd_mean vs run
χ² / ndf 96.78 / 85
p0 −2106 ± 1971
pull
Entries 86
Mean −29.91
Std Dev 0

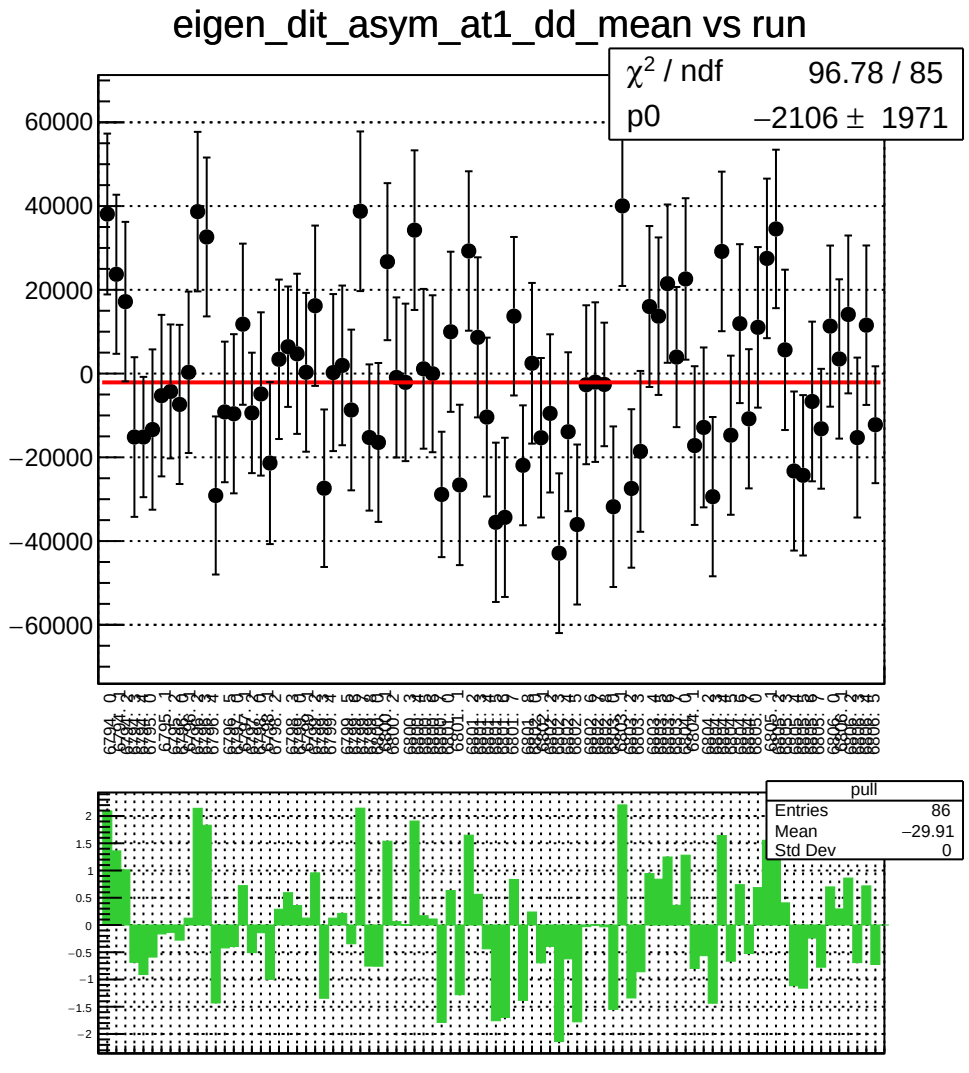

pull1D
Entries 86
Mean 0.02226
Std Dev 1.061

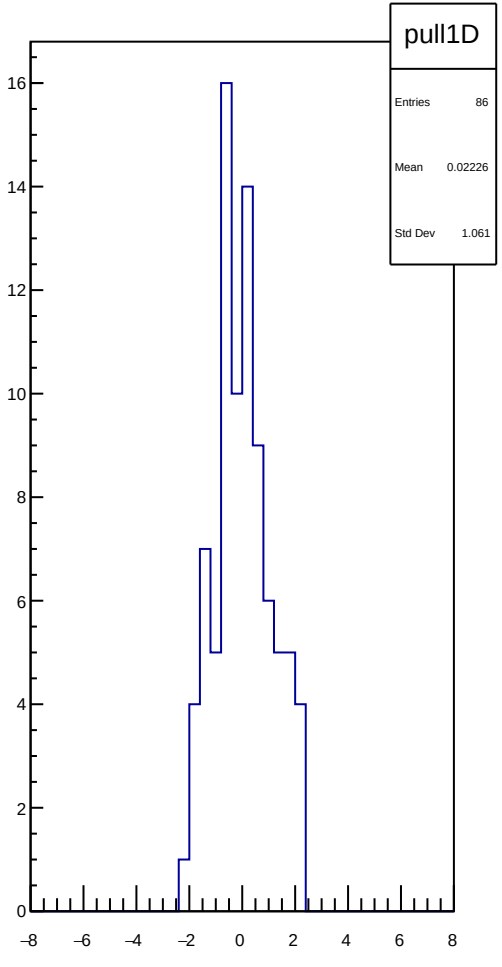

dit_asym_at1_dd_rms vs run
χ² / ndf 76.51 / 85
p0 1807 ± 1.393
1860
1840
1820
1800
1780
1760

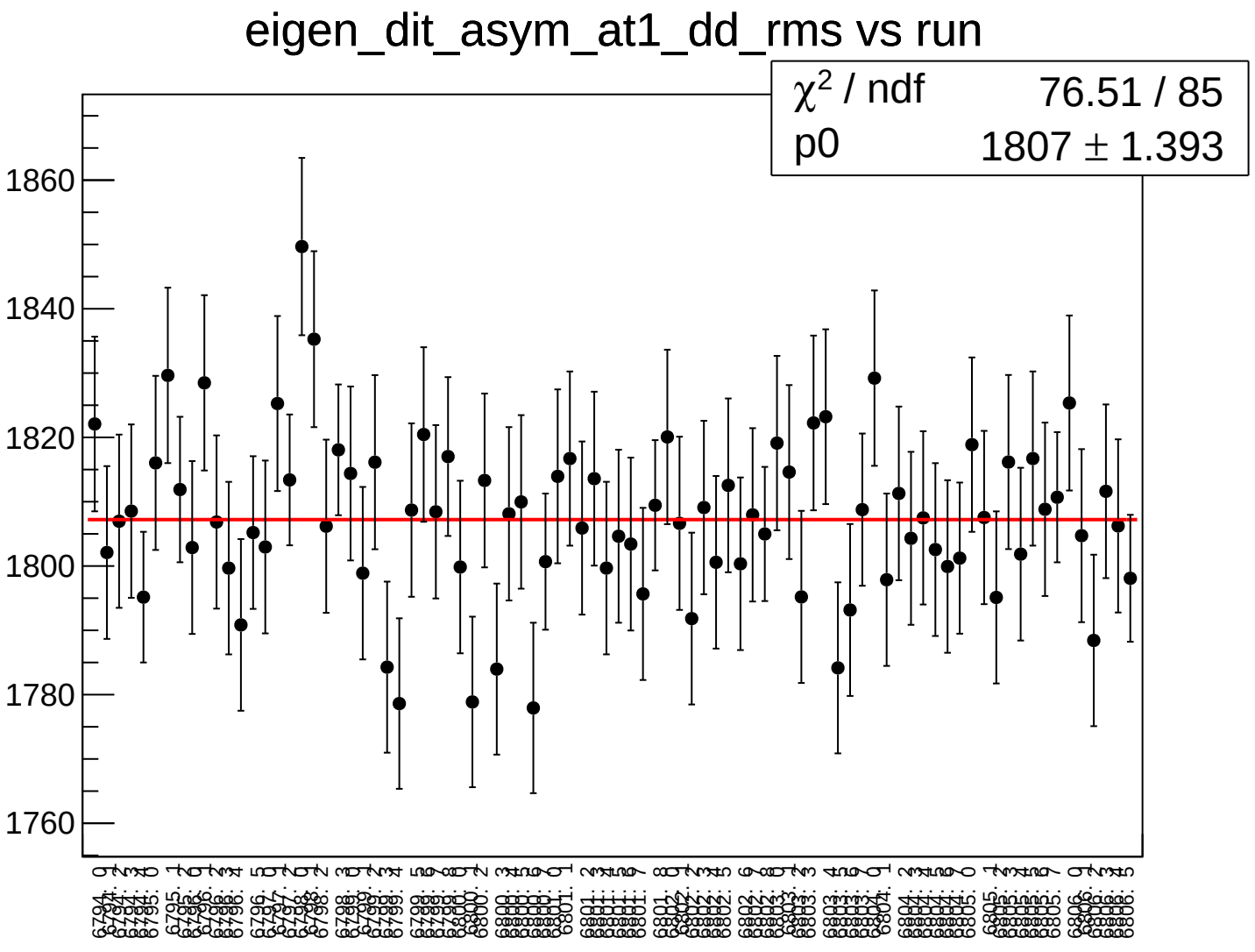

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 84.51 / 85
p0 173.2 ± 501.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 21.31
Std Dev 113.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

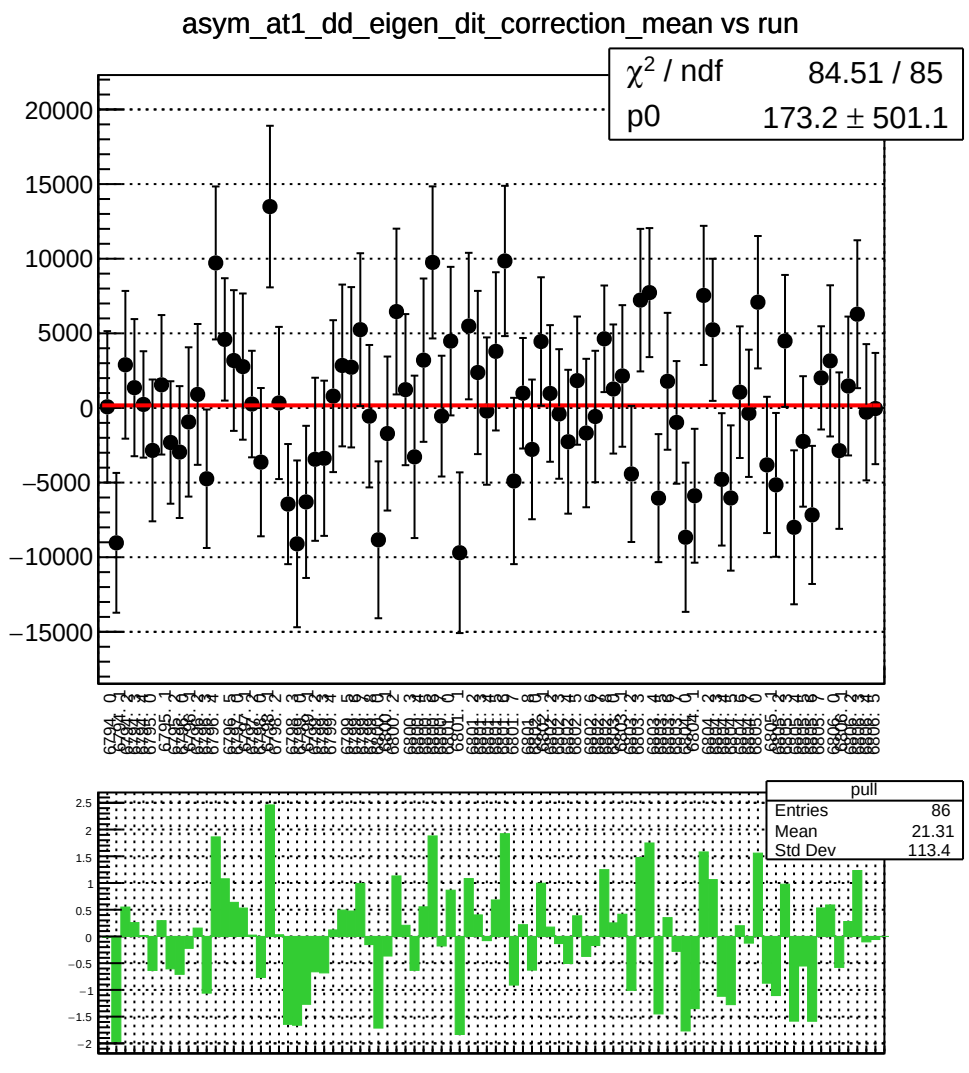

pull1D
Entries 86
Mean −0.004489
Std Dev 0.9913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

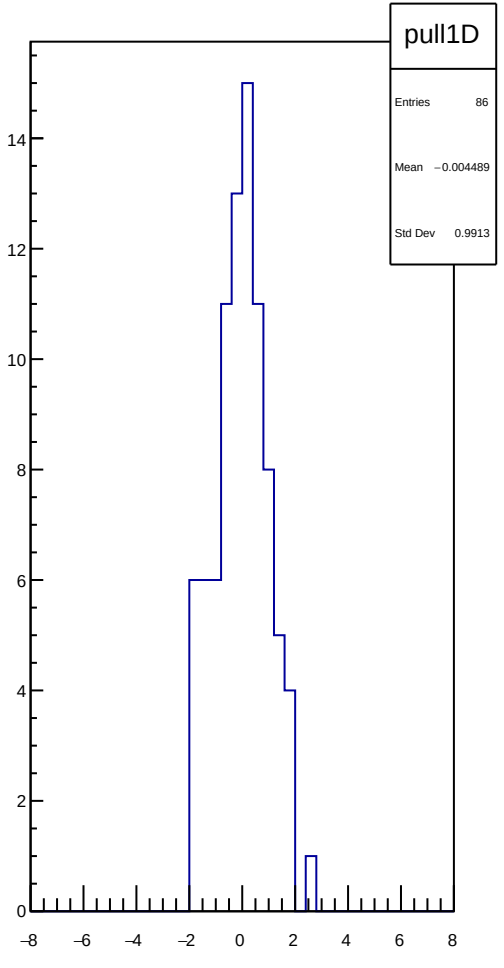

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 8116 / 85
p0 458.5 ± 0.3543
540
520
500
480
460
440
420
400

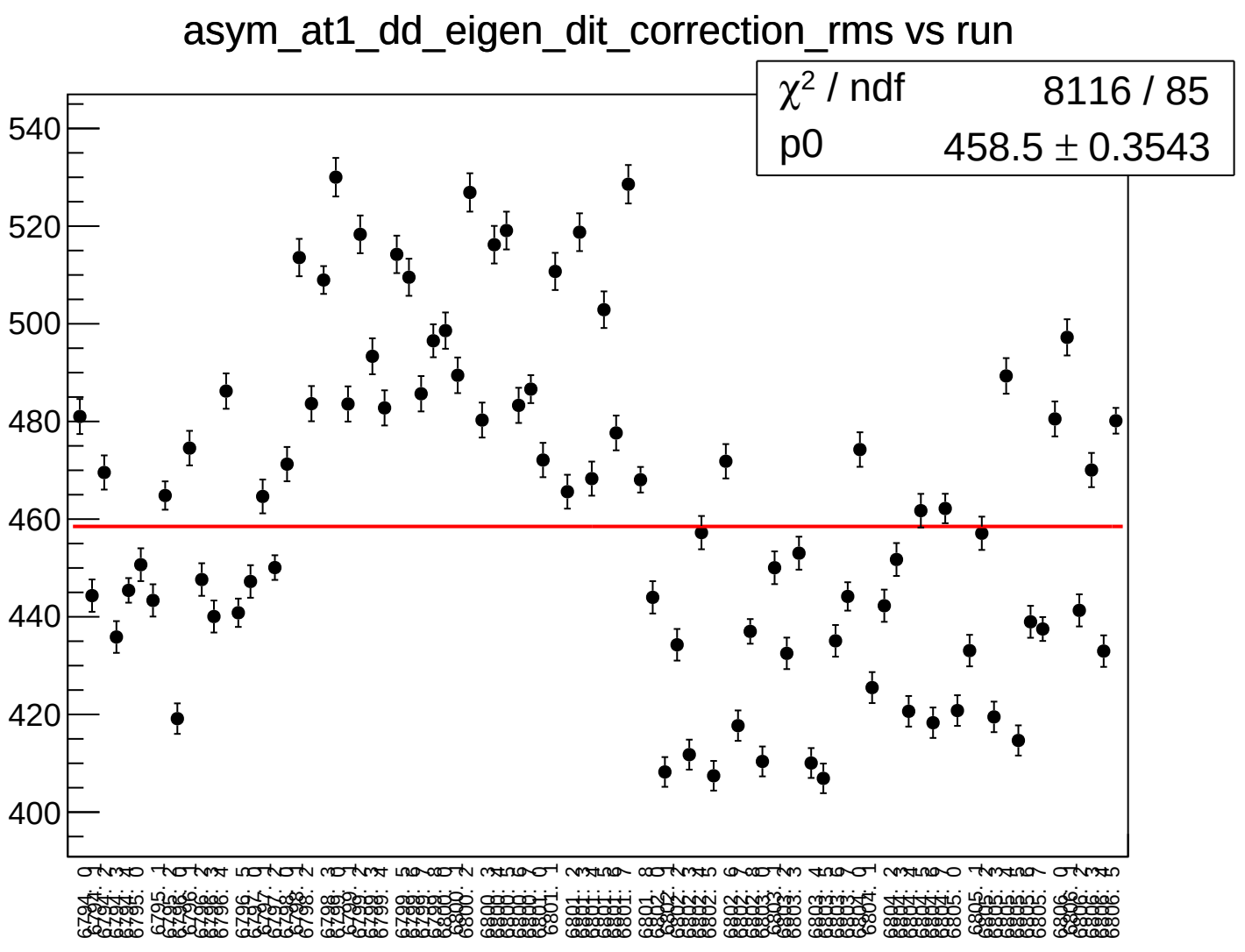

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 96.78 / 85
p0 −2106 ± 1971
pull
Entries 86
Mean −29.91
Std Dev 0

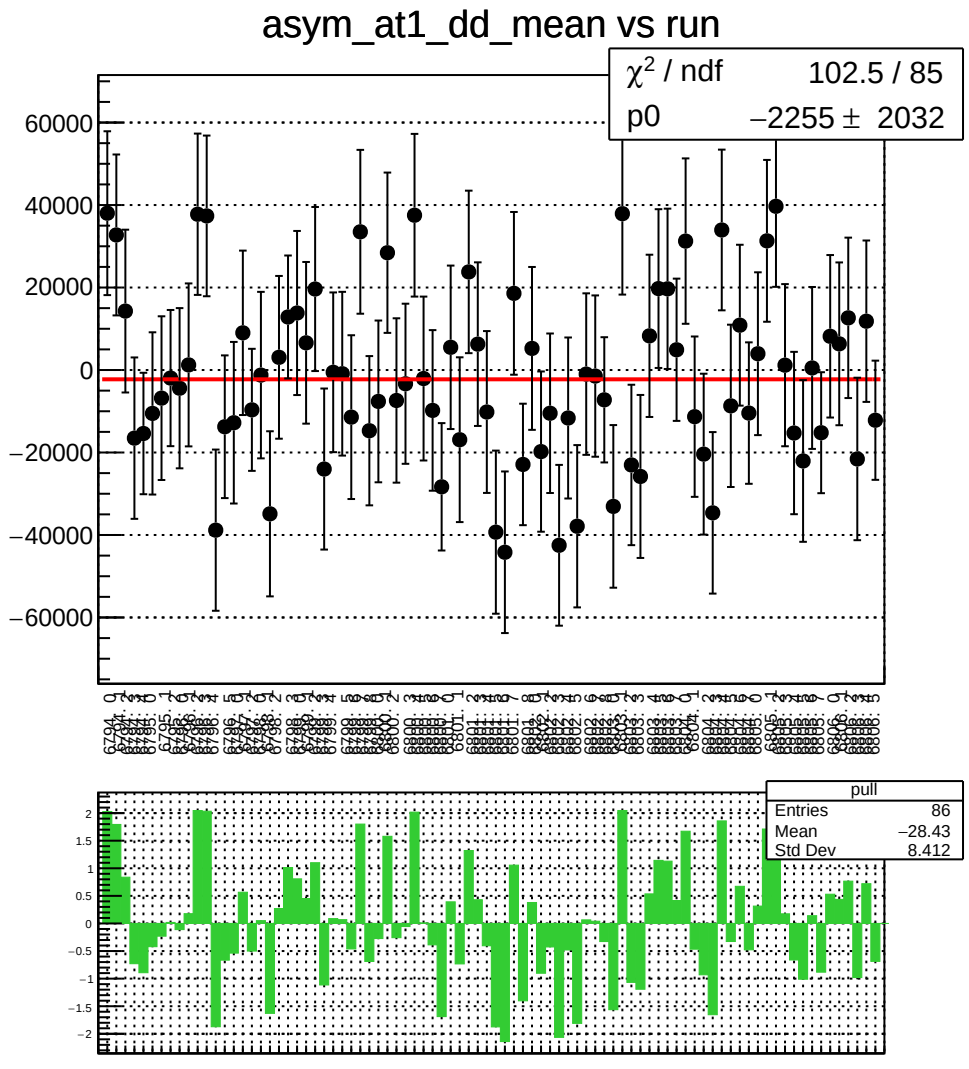

pull1D
Entries 86
Mean 0.02226
Std Dev 1.061

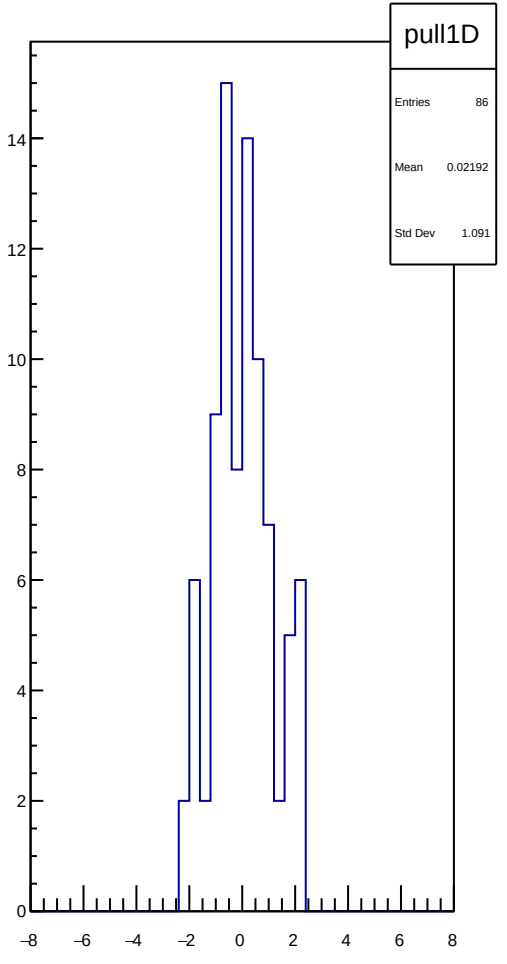

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 76.51 / 85
p0 1807 ± 1.393
1860
1840
1820
1800
1780
1760

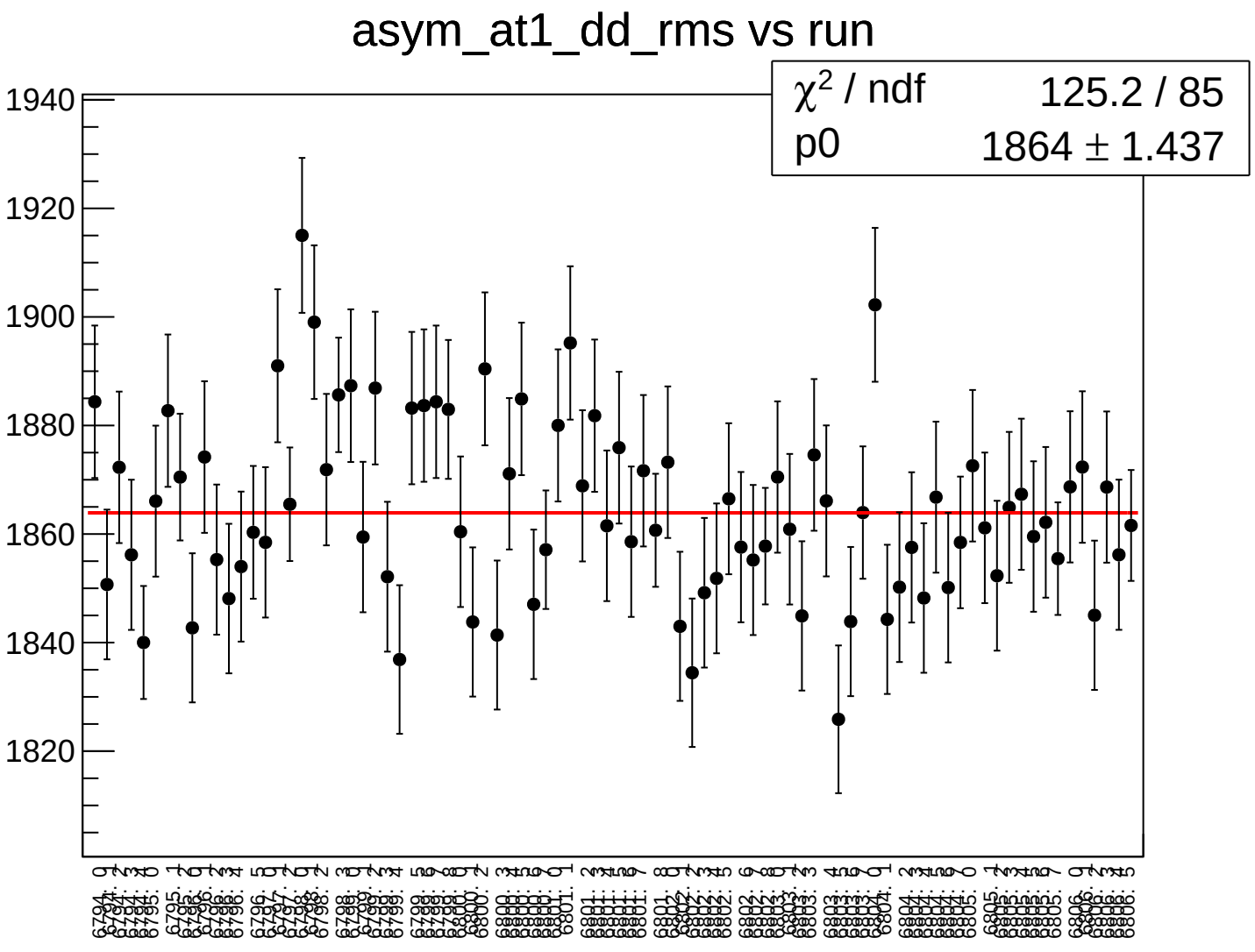

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.51 / 85
p0 173.2 ± 501.1
pull
Entries 86
Mean 21.31
Std Dev 113.4

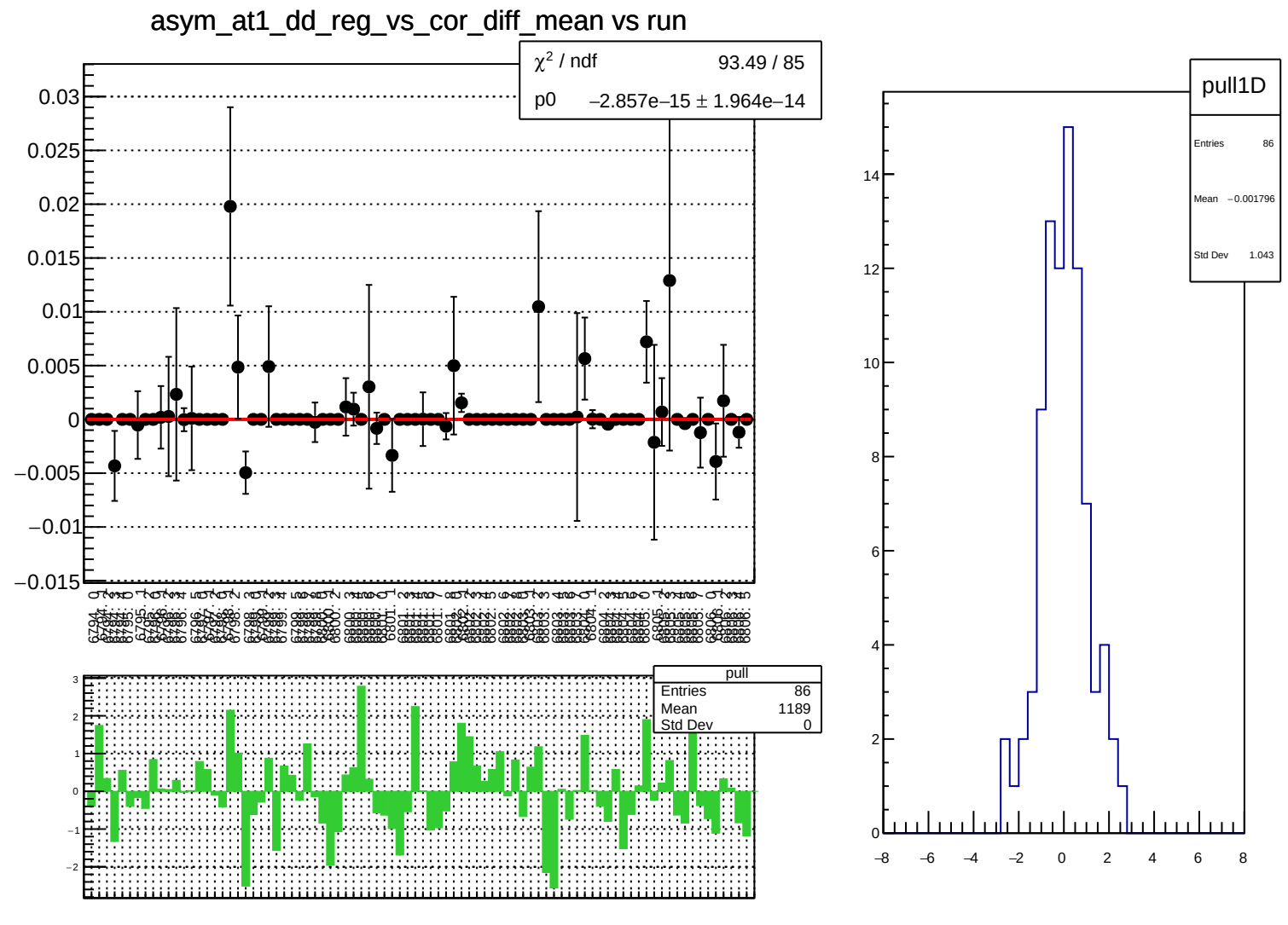

pull1D
Entries 86
Mean −0.004489
Std Dev 0.9913

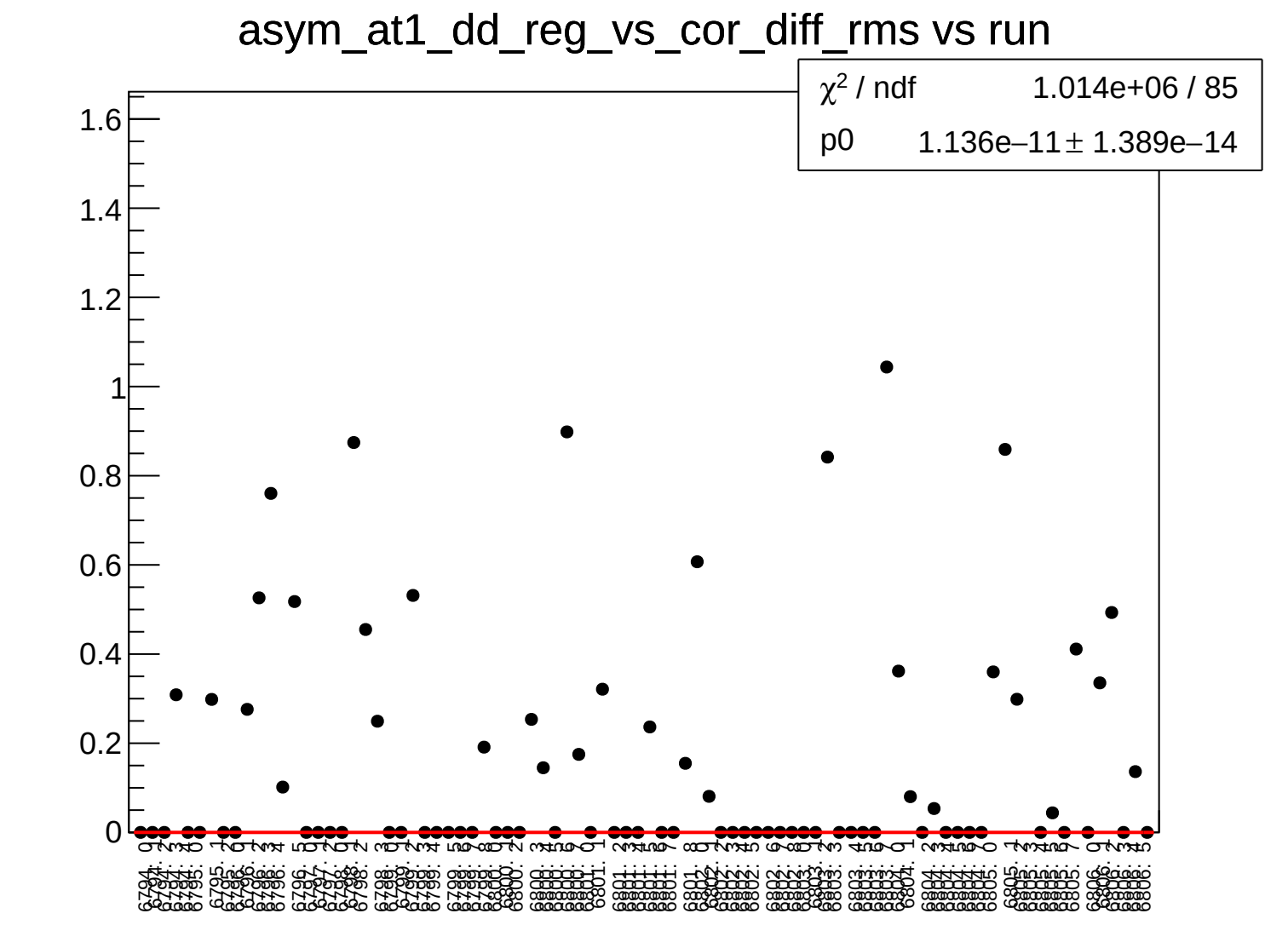

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8116 / 85
p0 458.5 ± 0.3543
540
520
500
480
460
440
420
400

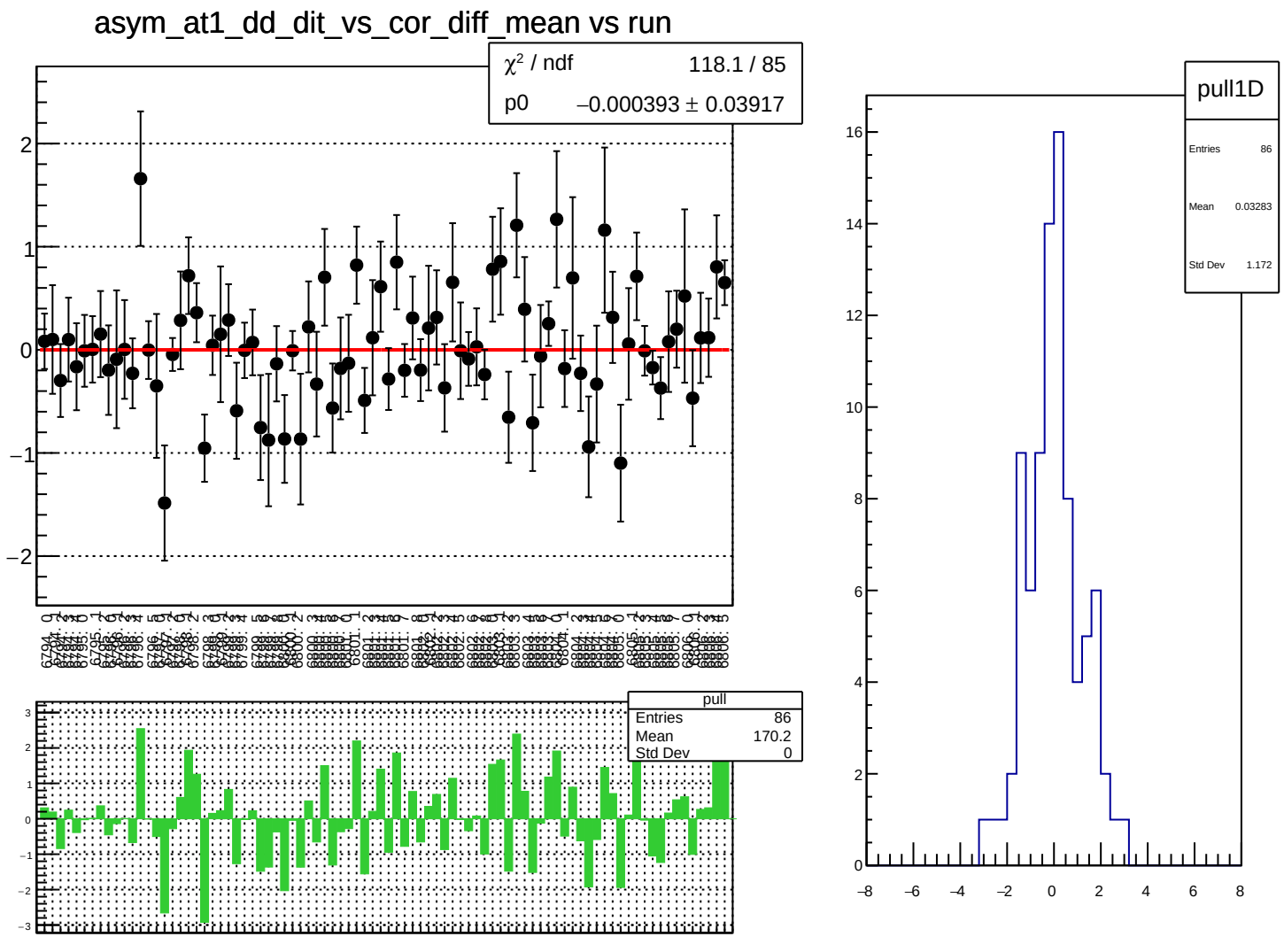

asym_at1_dd_mean vs run
χ² / ndf 102.5 / 85
p0 −2255 ± 2032
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −28.43
Std Dev 8.412
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

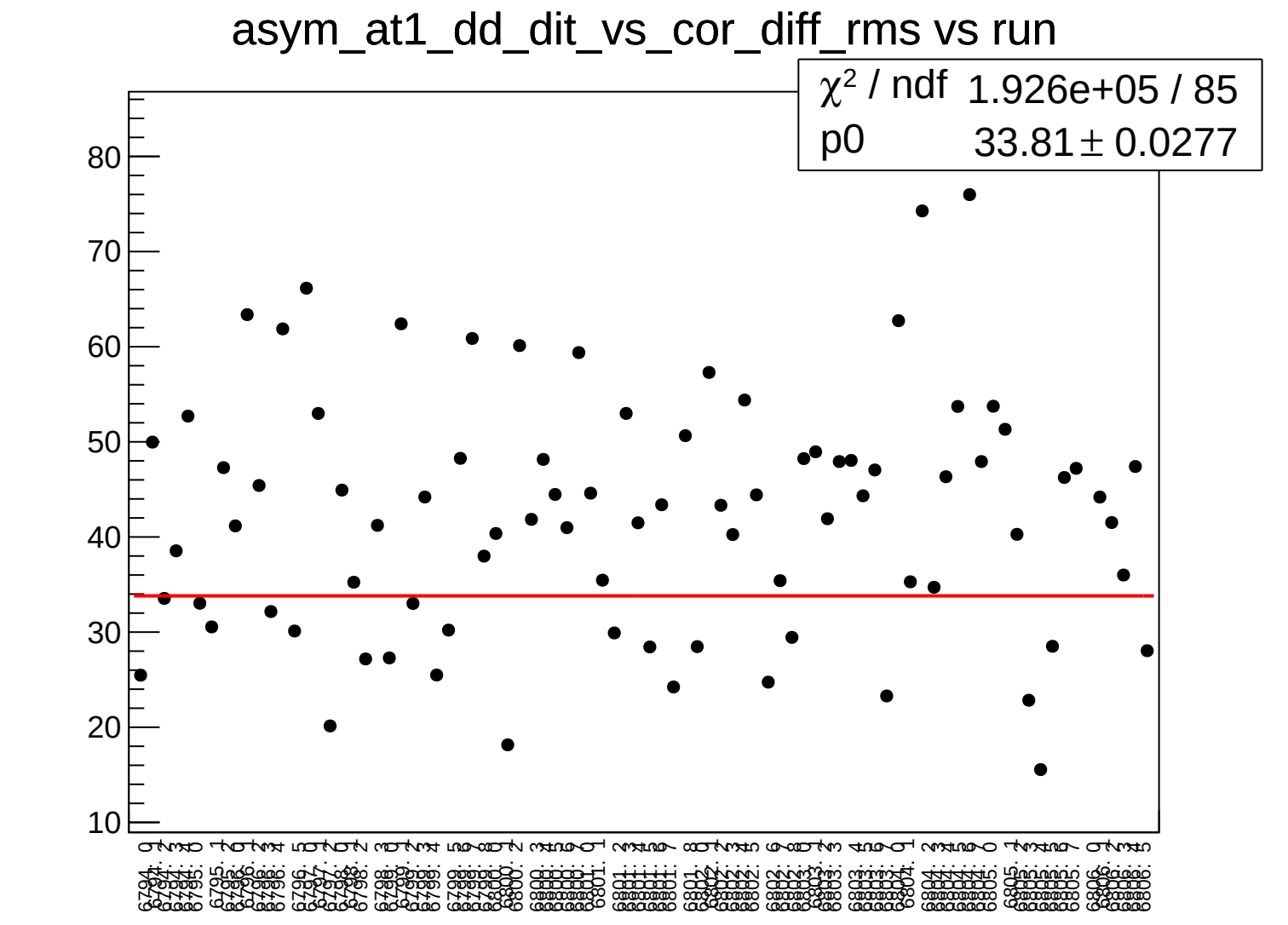

pull1D
Entries 86
Mean 0.02192
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

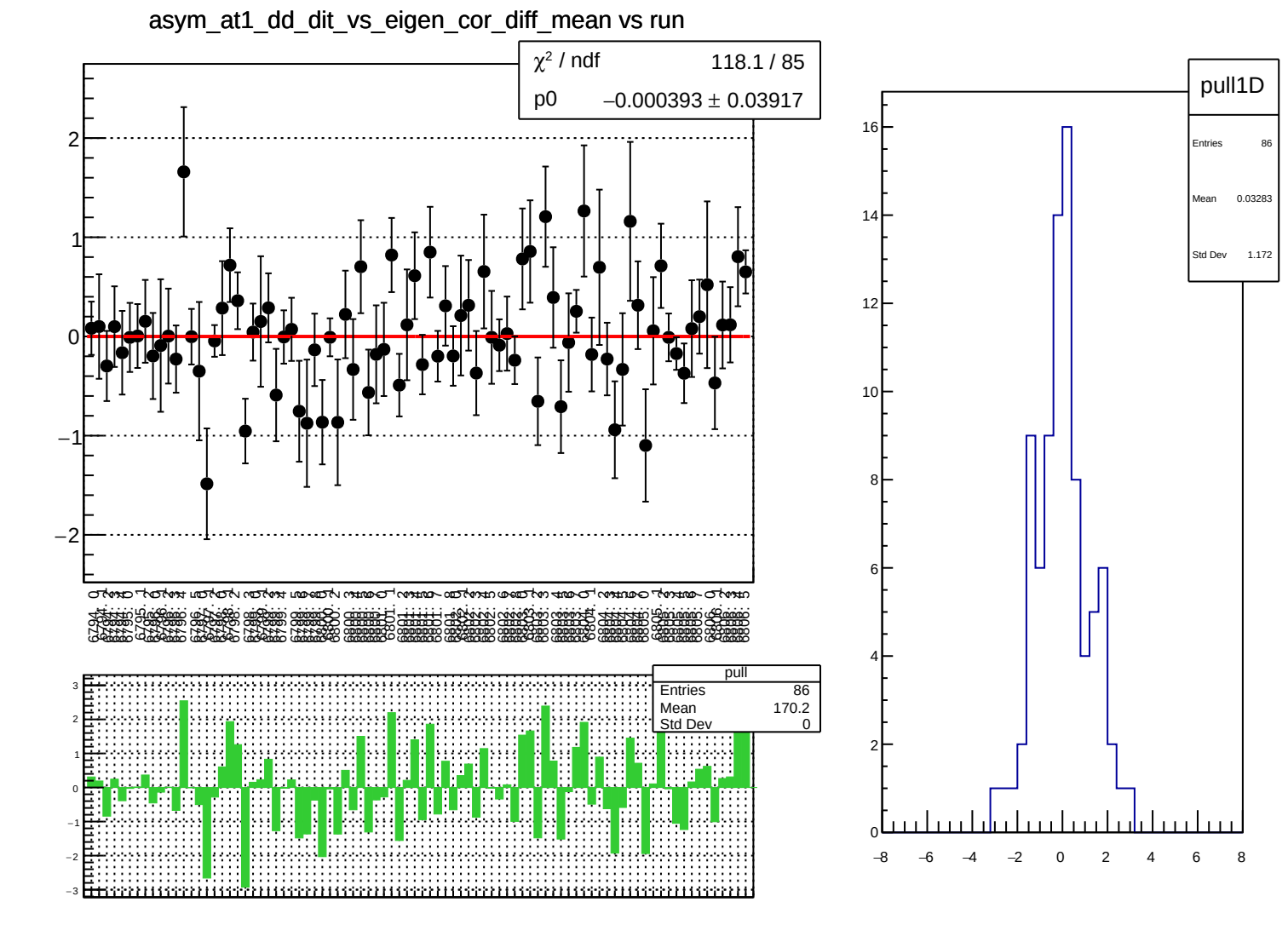

asym_at1_dd_rms vs run
χ² / ndf 125.2 / 85
p0 1864 ± 1.437
1940
1920
1900
1880
1860
1840
1820

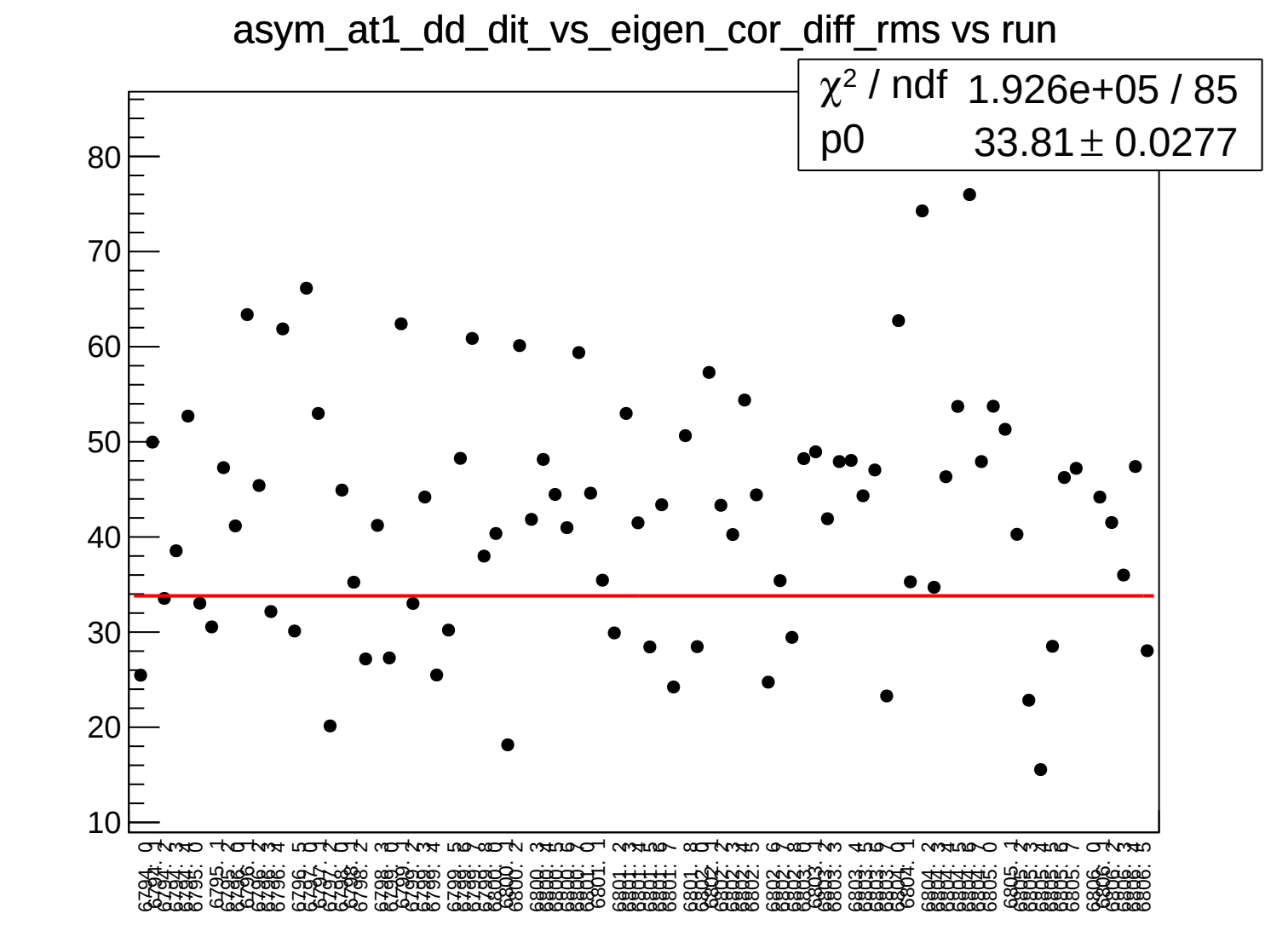

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 93.49 / 85
p0 −2.857e−15 ± 1.964e−14
pull
Entries 86
Mean 1189
Std Dev 0
pull1D
Entries 86
Mean −0.001796
Std Dev 1.043

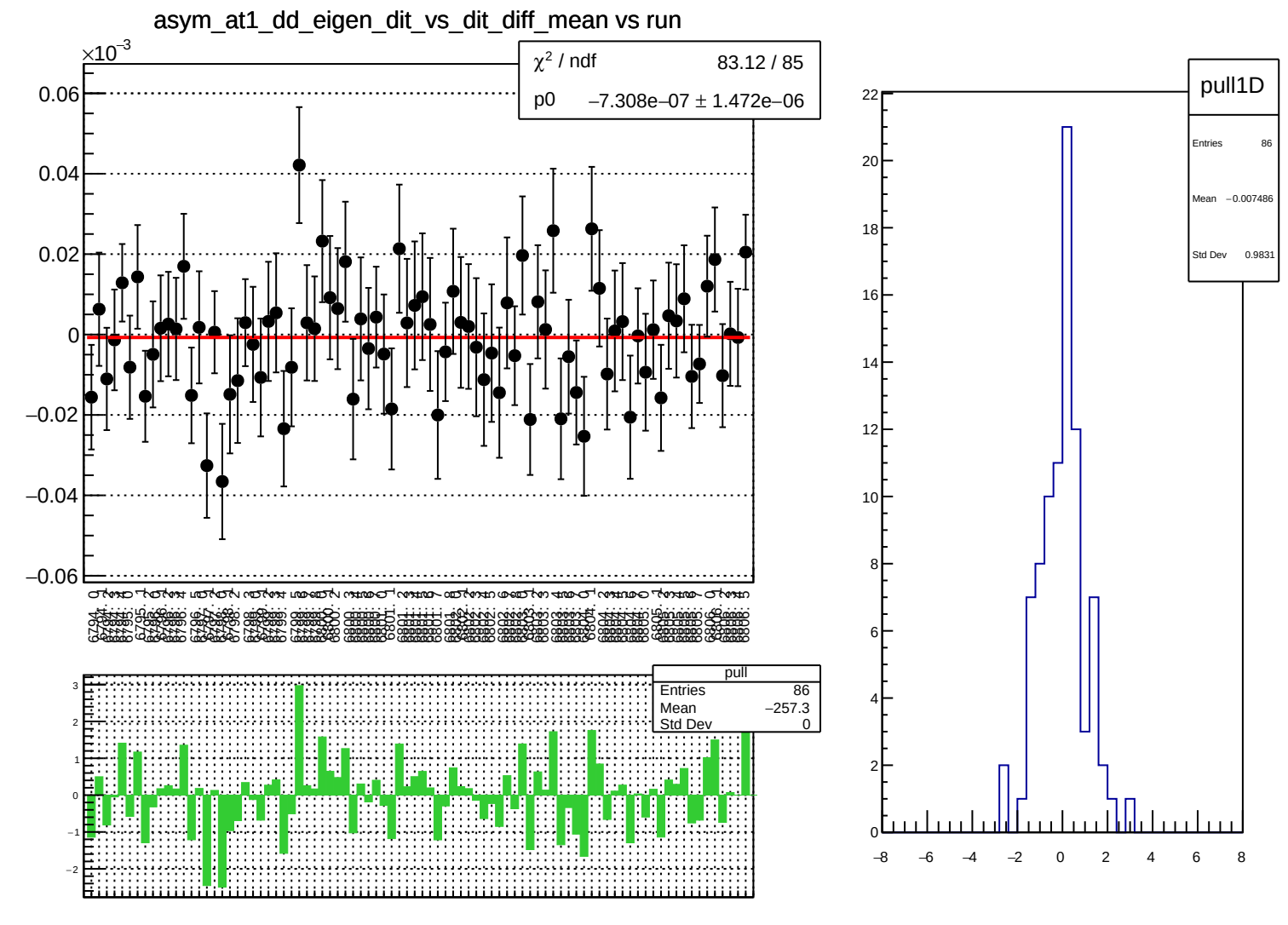

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 1.136e−11 ± 1.389e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

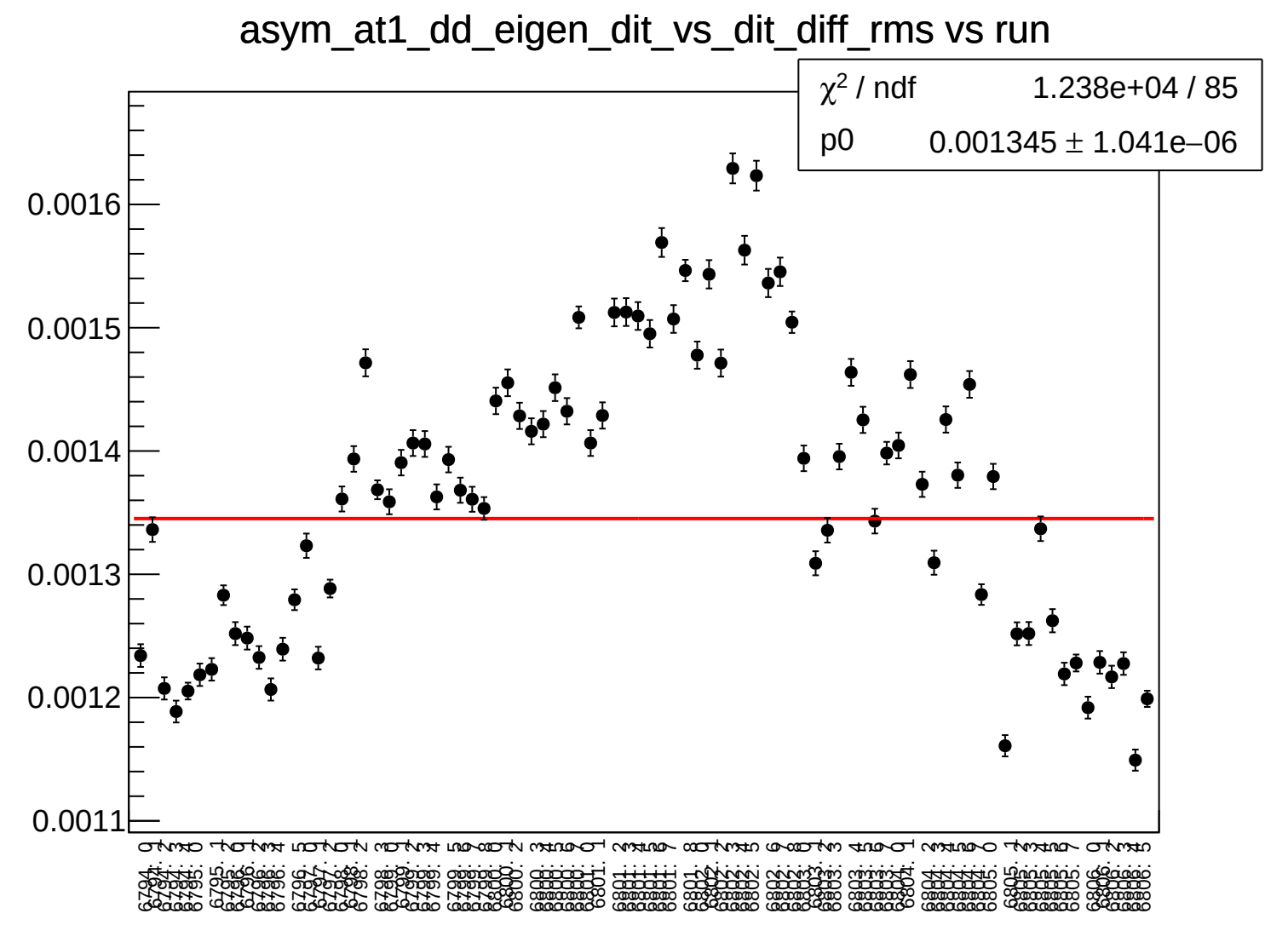

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.1 / 85
p0 −0.000393 ± 0.03917
pull
Entries 86
Mean 170.2
Std Dev 0
pull1D
Entries 86
Mean 0.03283
Std Dev 1.172

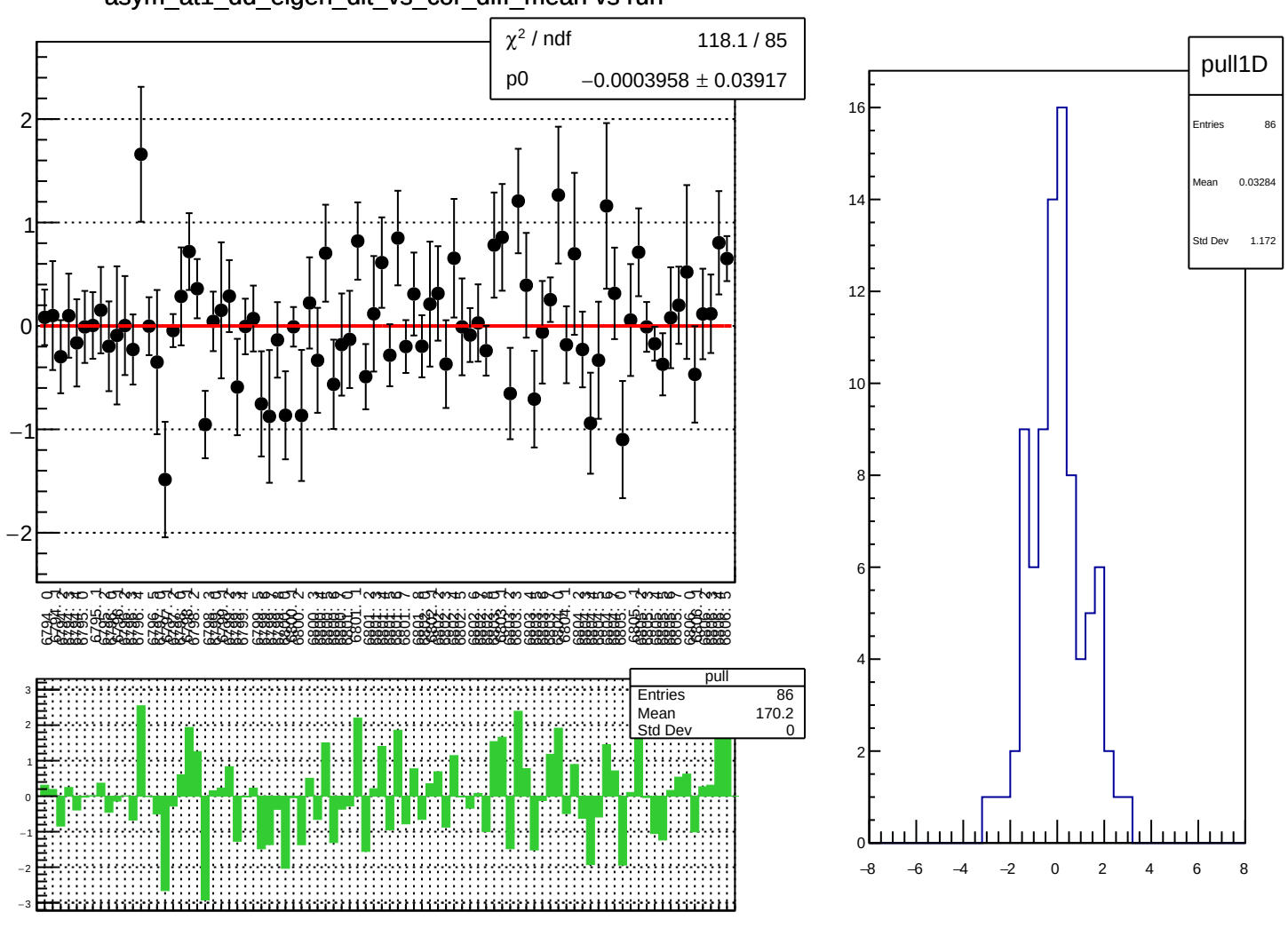

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 85
p0 33.81 ± 0.0277
80
70
60
50
40
30
20
10

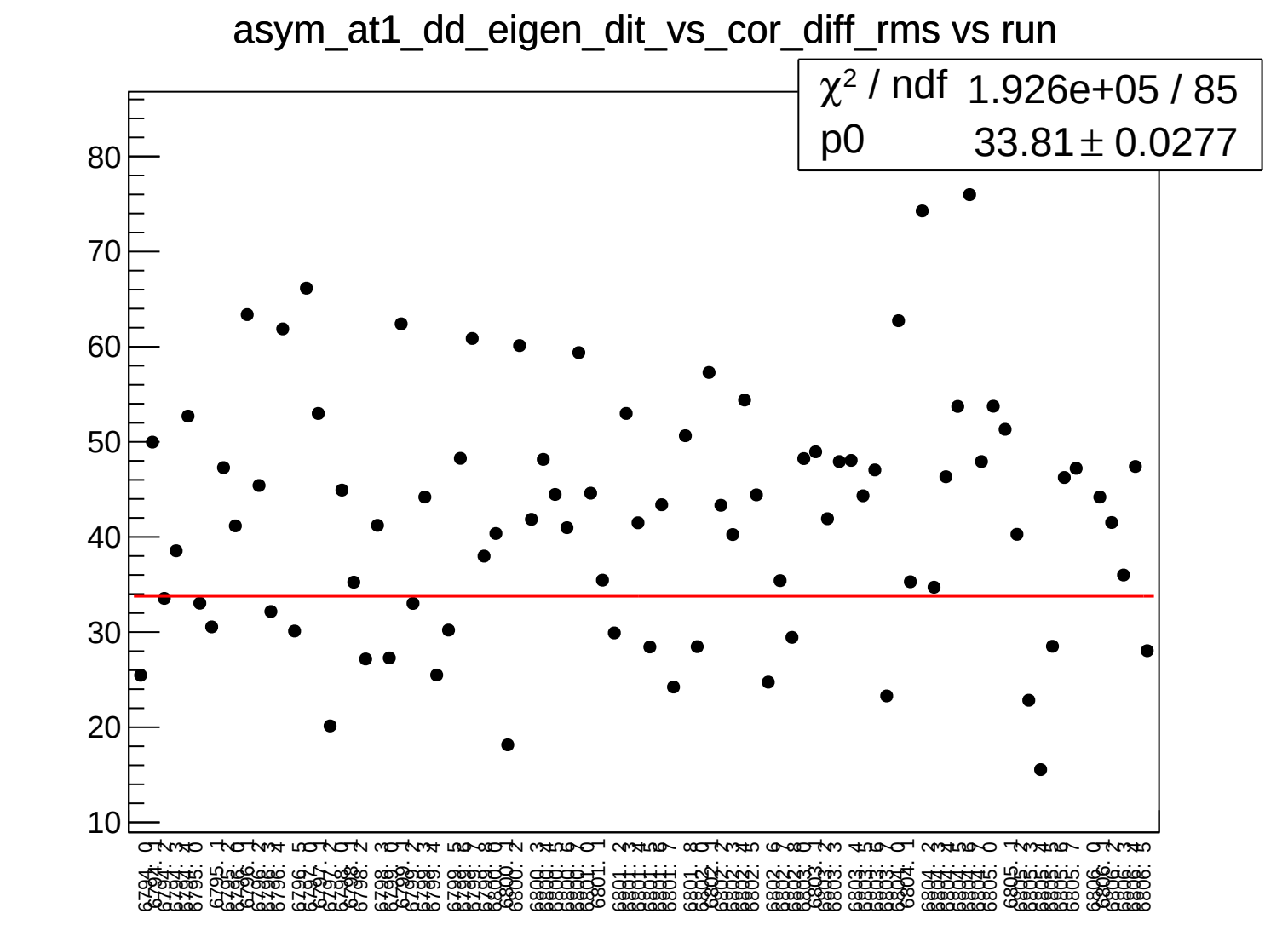

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.1 / 85
p0 −0.000393 ± 0.03917
pull
Entries 86
Mean 170.2
Std Dev 0
pull1D
Entries 86
Mean 0.03283
Std Dev 1.172


asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 85
p0 33.81 ± 0.0277
80
70
60
50
40
30
20
10

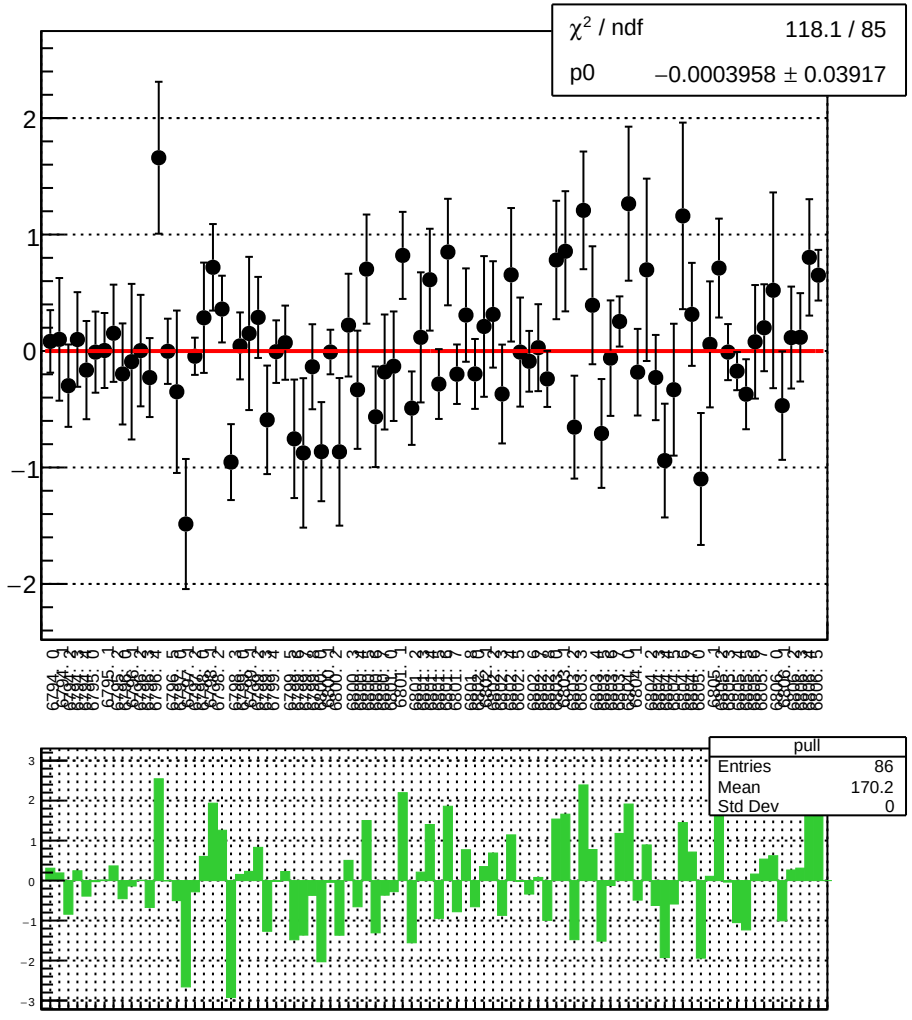

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.12 / 85
p0 −7.308e−07 ± 1.472e−06
pull
Entries 86
Mean −257.3
Std Dev 0
pull1D
Entries 86
Mean −0.007486
Std Dev 0.9831

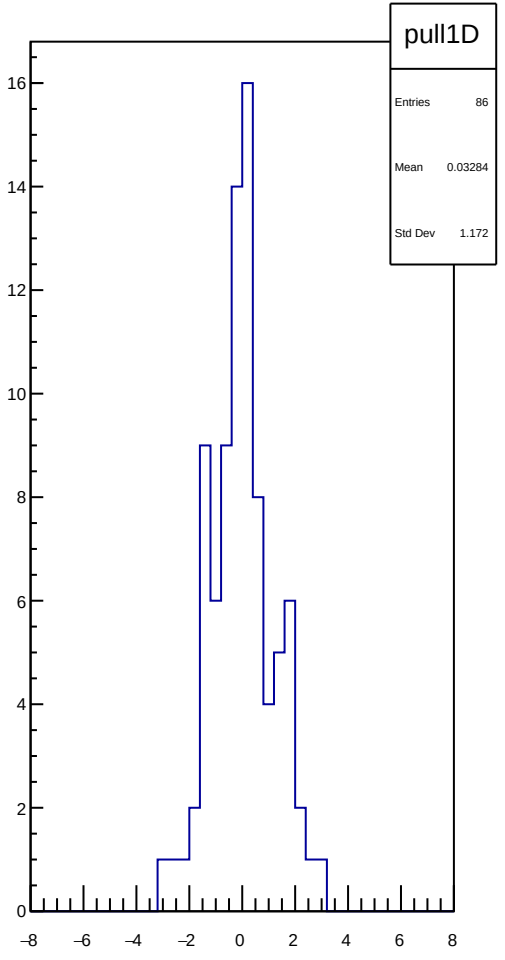

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.238e+04 / 85
p0 0.001345 ± 1.041e−06
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

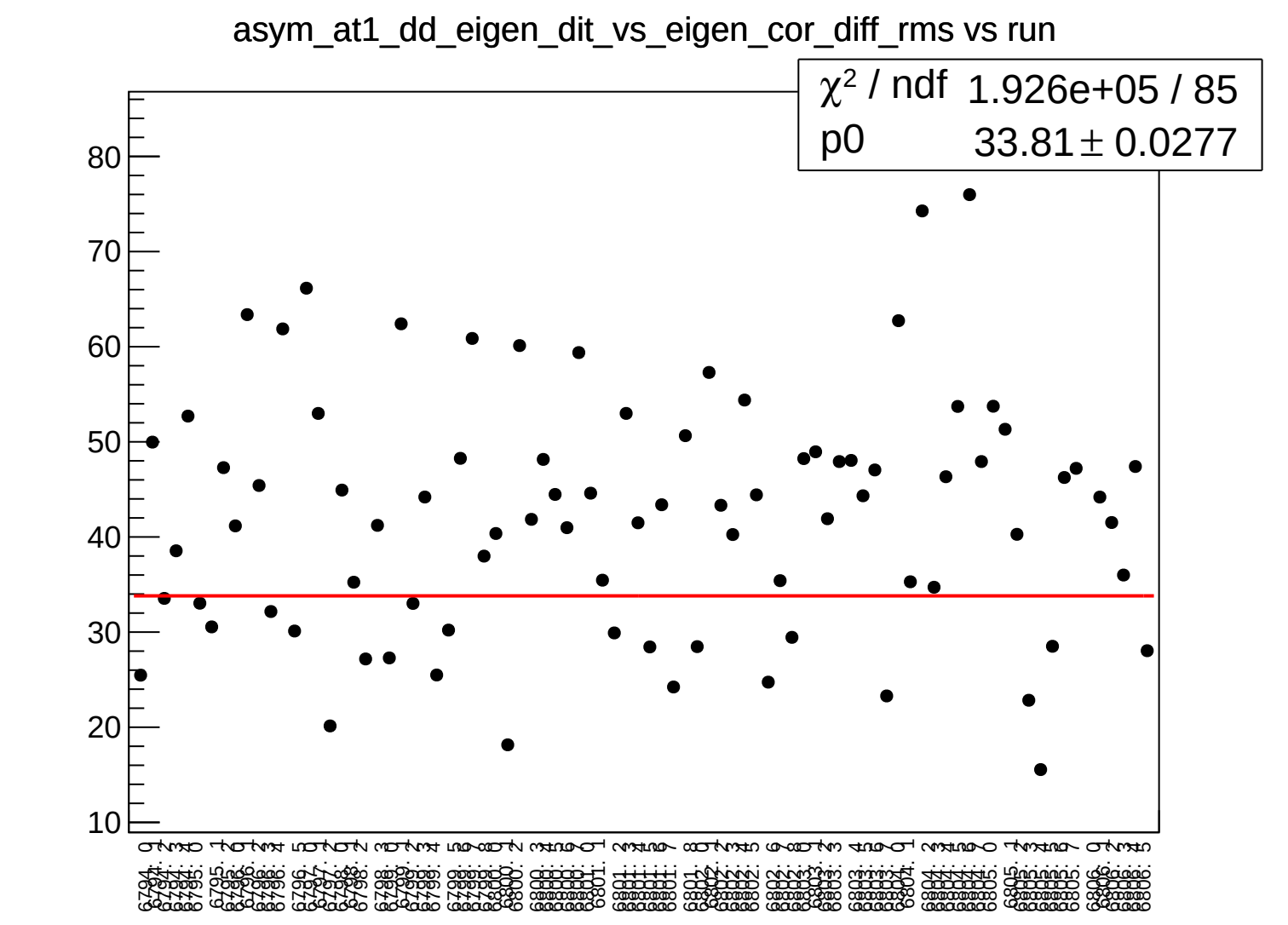

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.1 / 85
p0 −0.0003958 ± 0.03917
pull
Entries 86
Mean 170.2
Std Dev 0
pull1D
Entries 86
Mean 0.03284
Std Dev 1.172

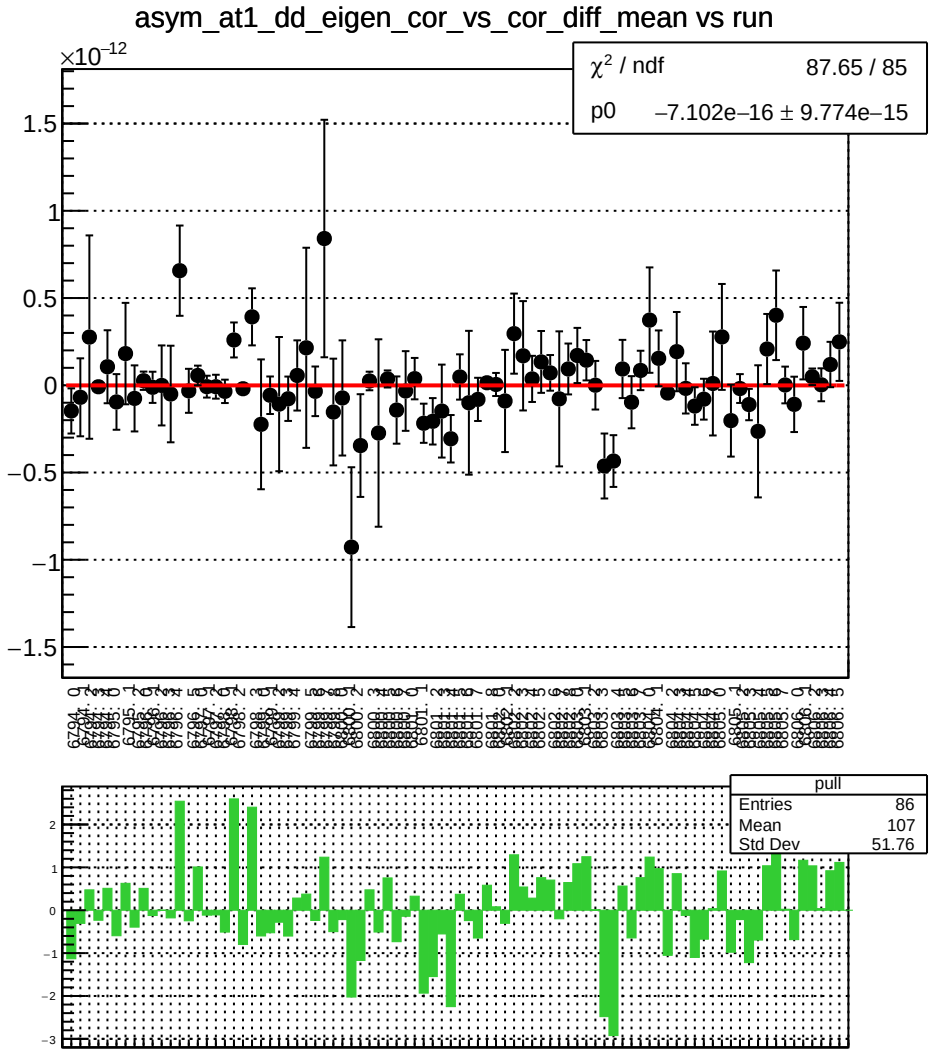

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 85
p0 33.81 ± 0.0277
80
70
60
50
40
30
20
10

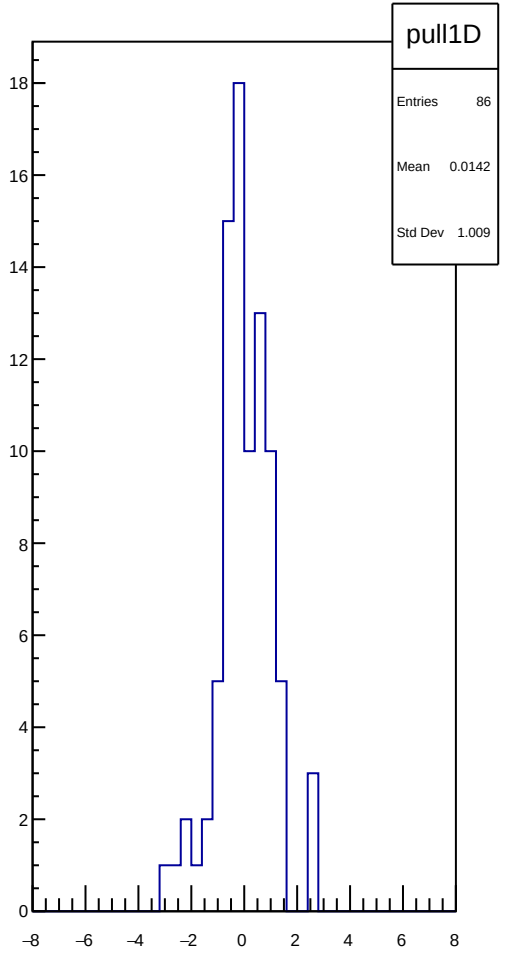
asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run

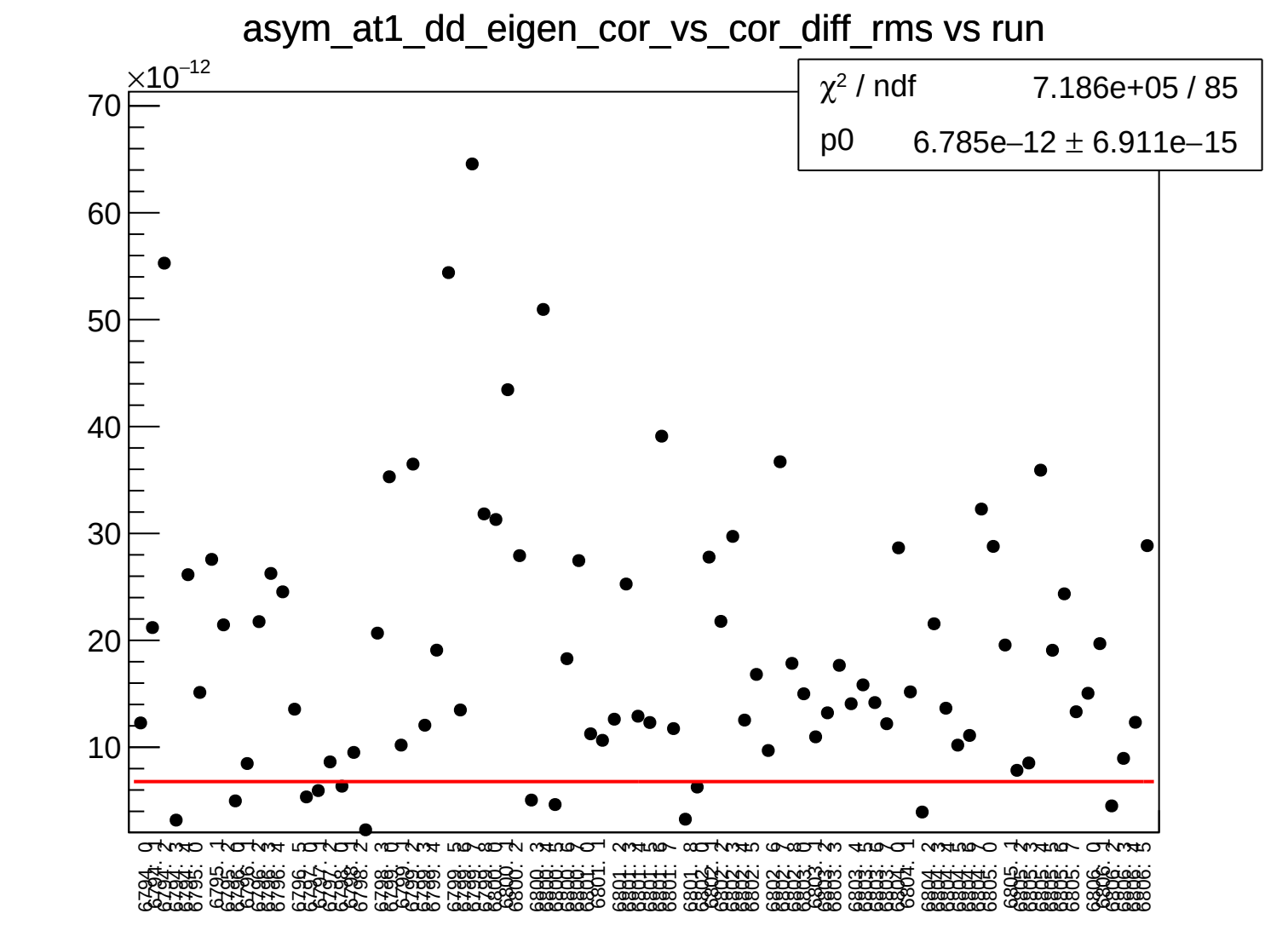


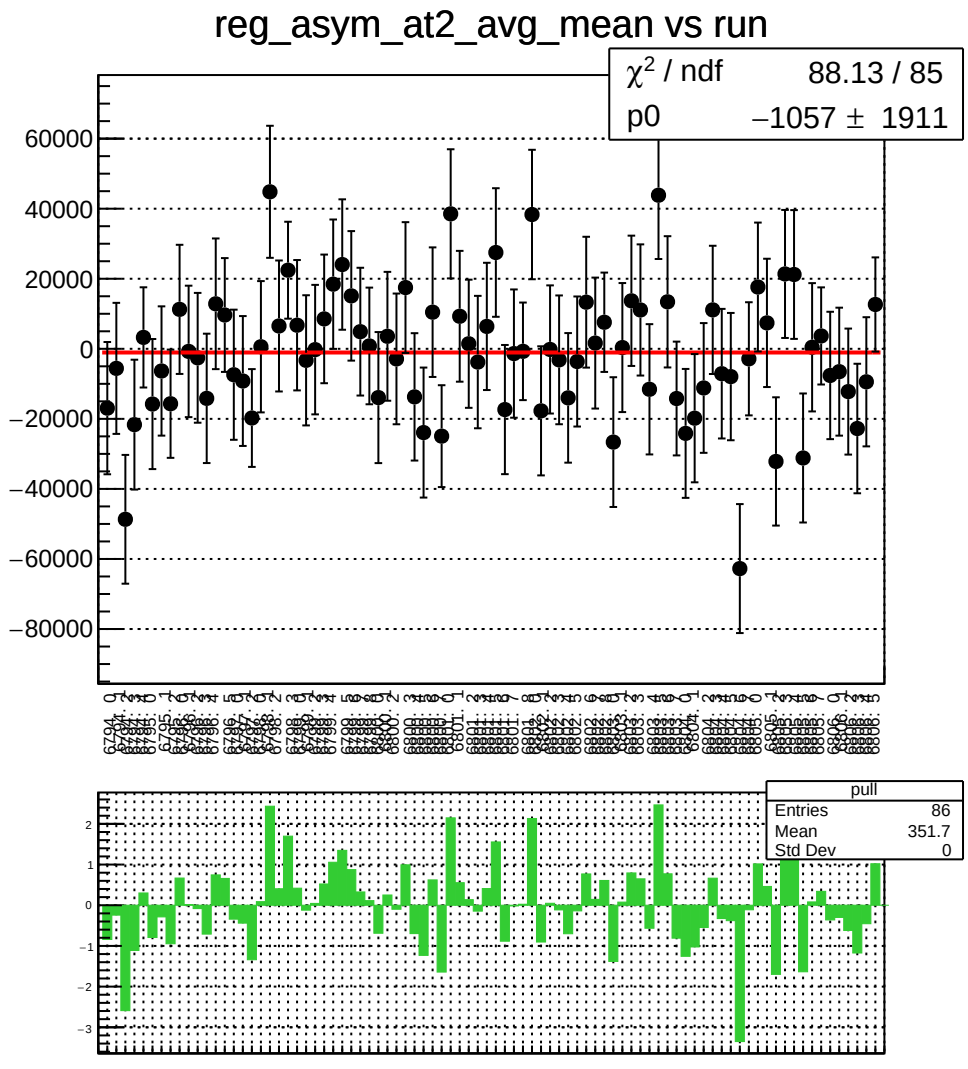


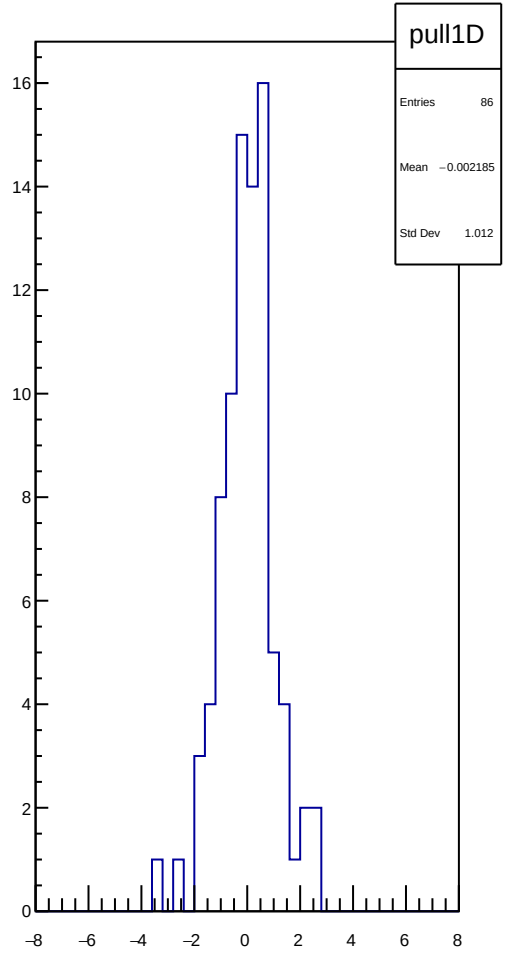

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 85
p0 33.81 ± 0.0277
80
70
60
50
40
30
20
10

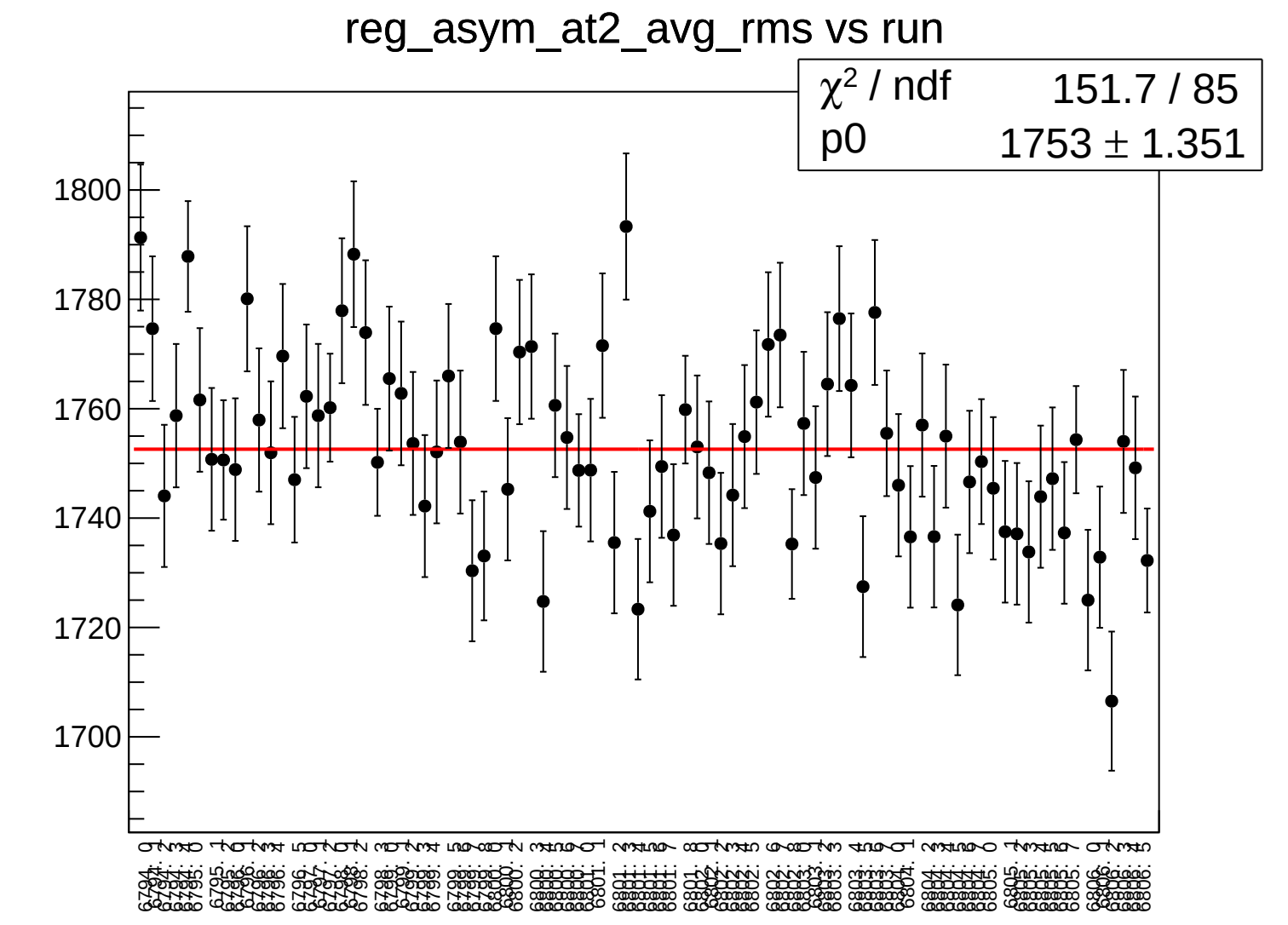

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.65 / 85
p0 −7.102e−16 ± 9.774e−15
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 86
Mean 107
Std Dev 51.76
2
1
0
−1
−2
−3

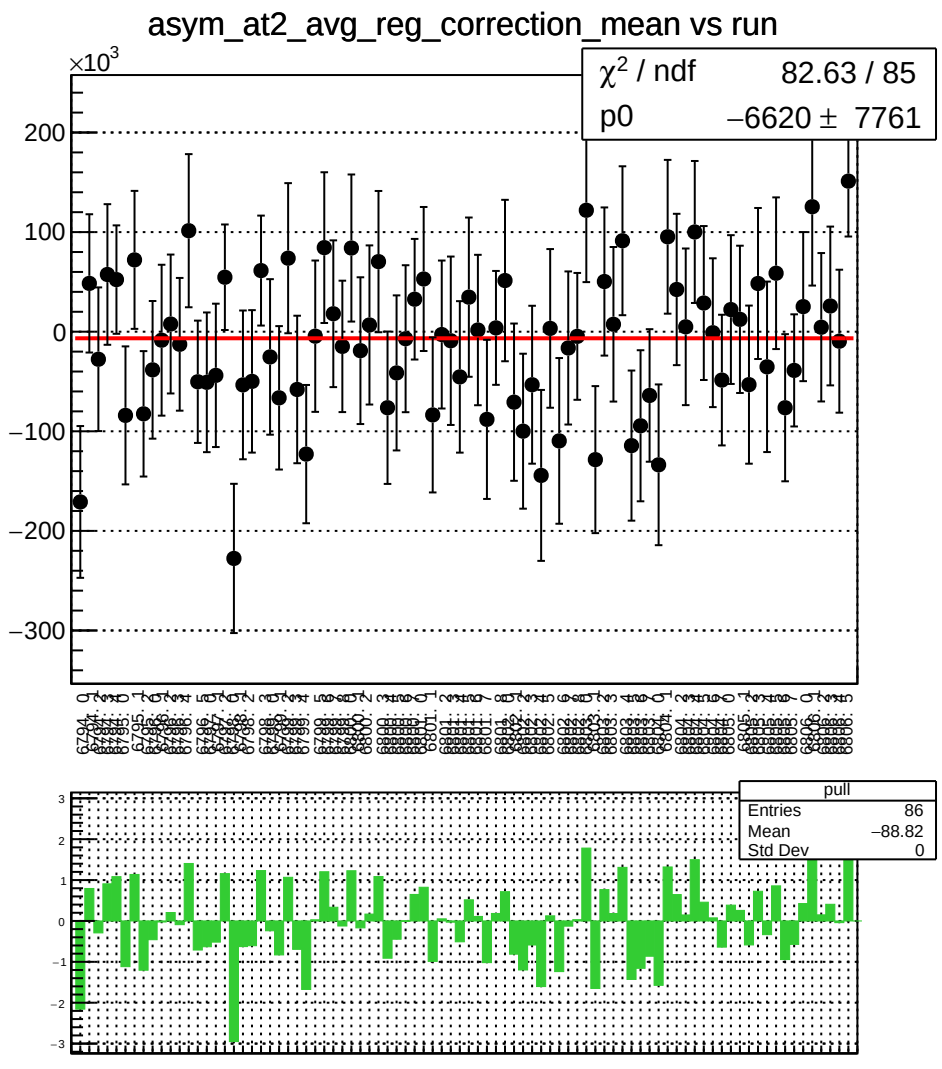

pull1D
Entries 86
Mean 0.0142
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

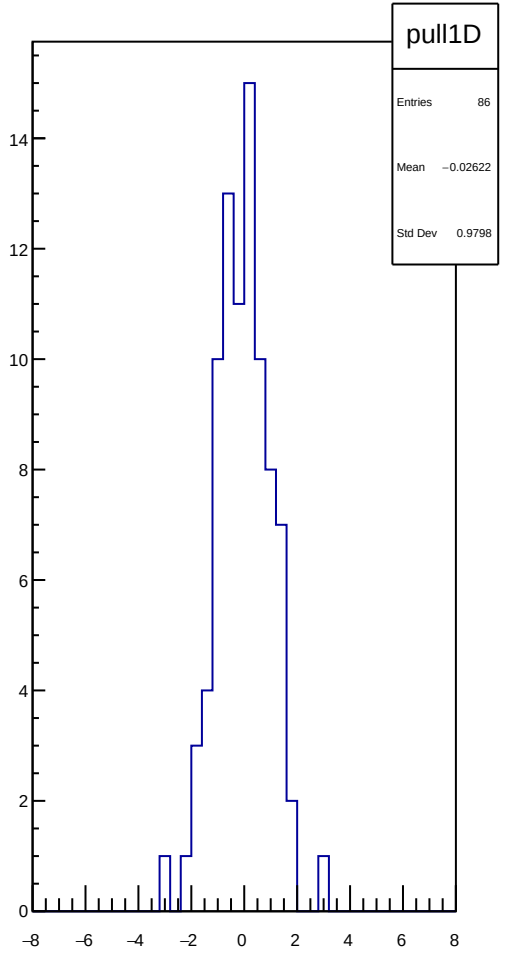

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.186e+05 / 85
p0 6.785e−12 ± 6.911e−15
70
60
50
40
30
20
10

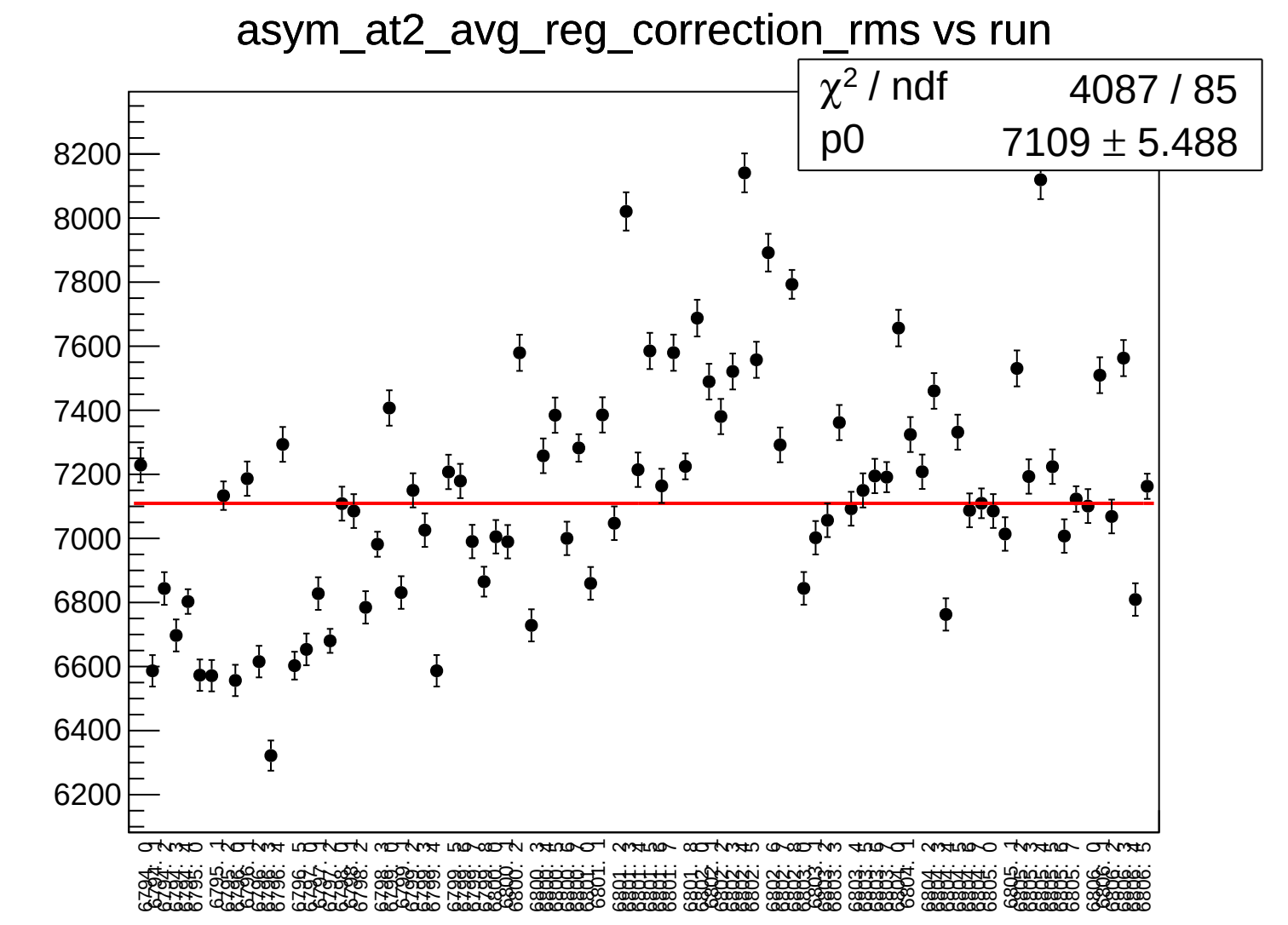

reg_asym_at2_avg_mean vs run
χ² / ndf 88.13 / 85
p0 −1057 ± 1911
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 351.7
Std Dev 0
2
1
0
−1
−2
−3

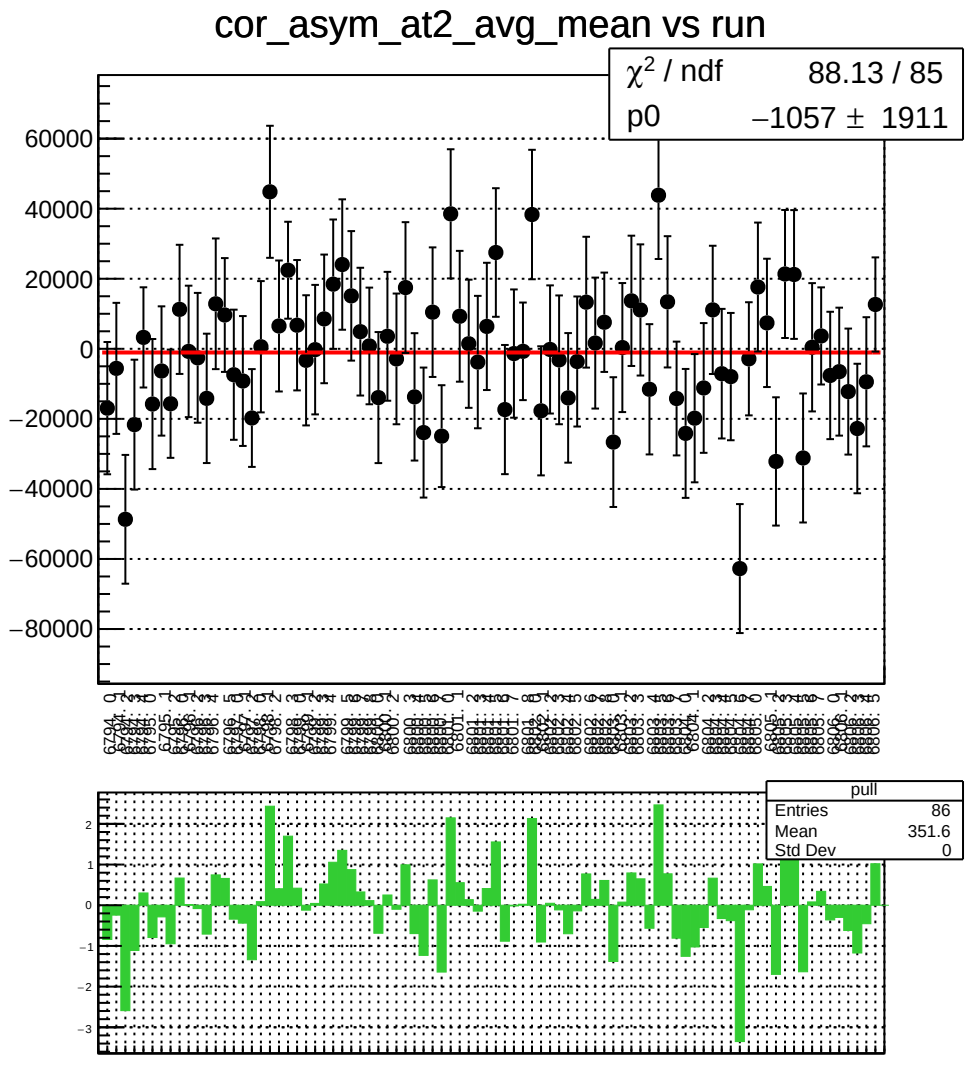

pull1D
Entries 86
Mean −0.002185
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

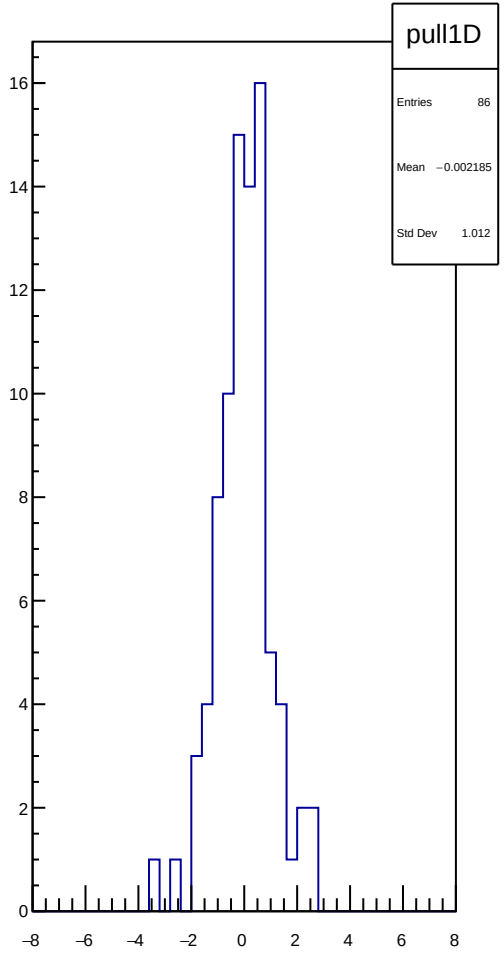

reg_asym_at2_avg_rms vs run
χ² / ndf 151.7 / 85
p0 1753 ± 1.351
1800
1780
1760
1740
1720
1700

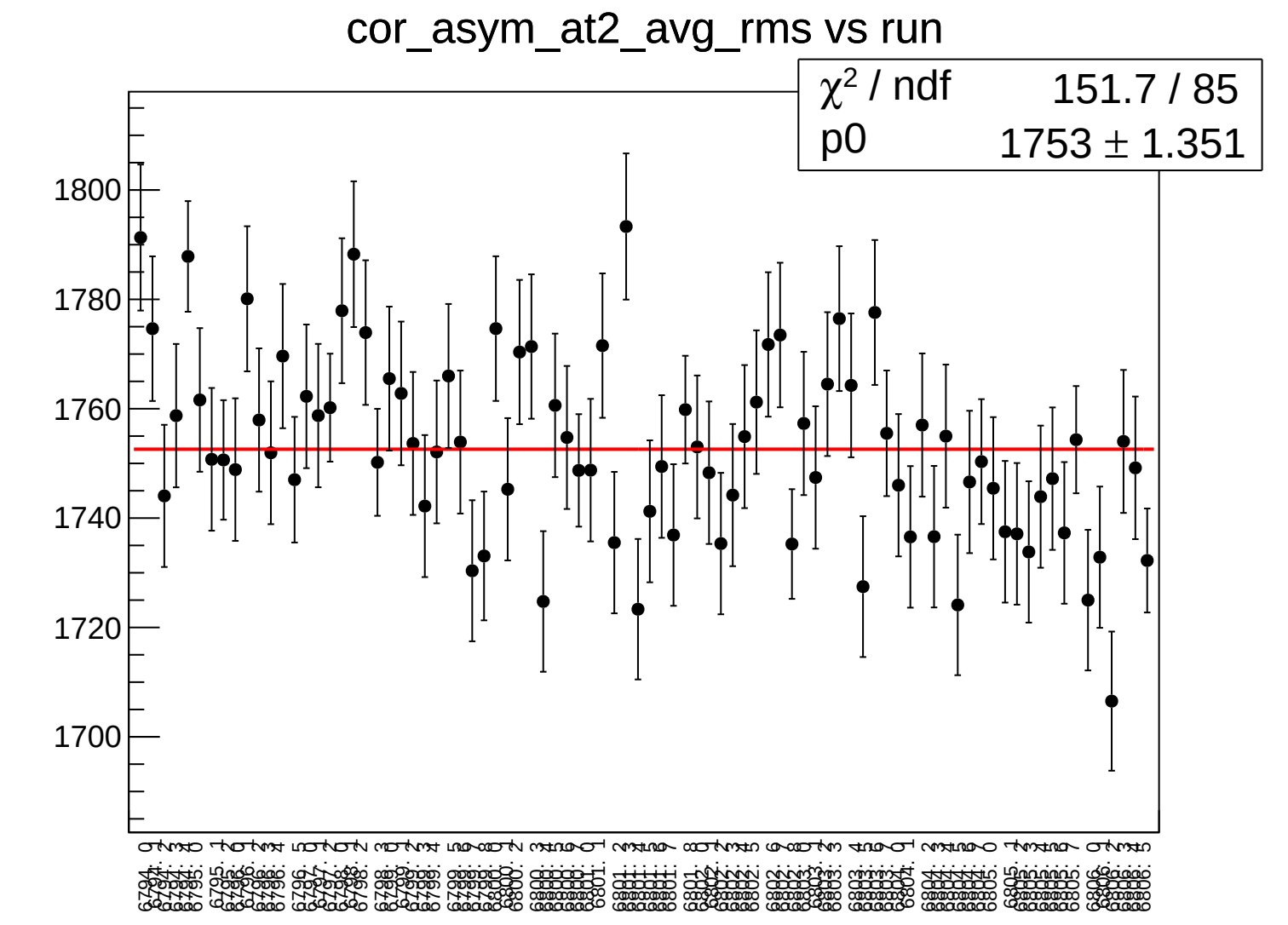

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.63 / 85
p0 −6620 ± 7761
200
100
0
−100
−200
−300
pull
Entries 86
Mean −88.82
Std Dev 0
3
2
1
0
−1
−2
−3

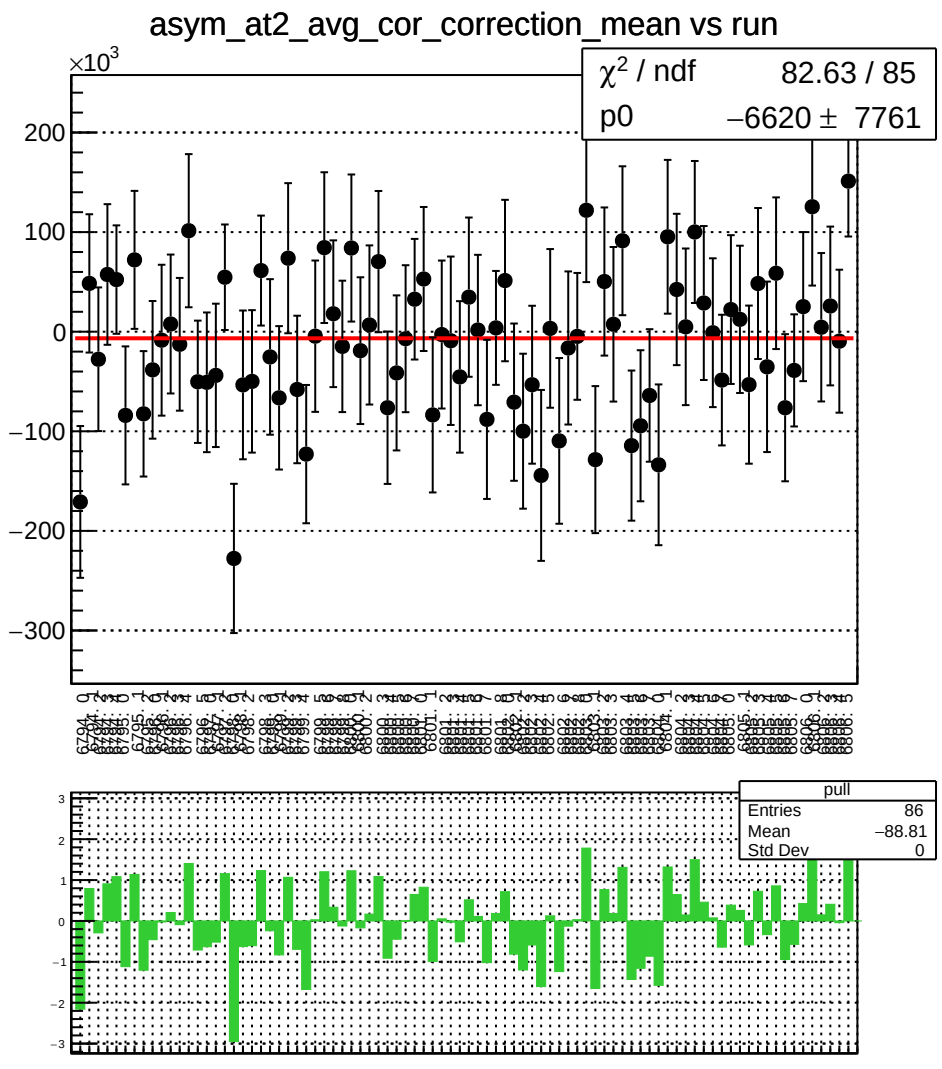

pull1D
Entries 86
Mean −0.02622
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

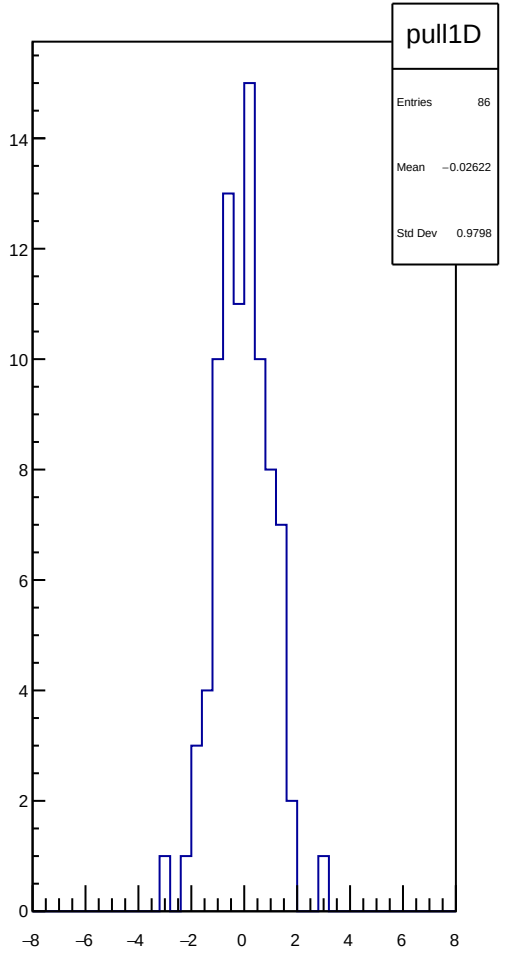

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 4087 / 85
p0 7109 ± 5.488
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

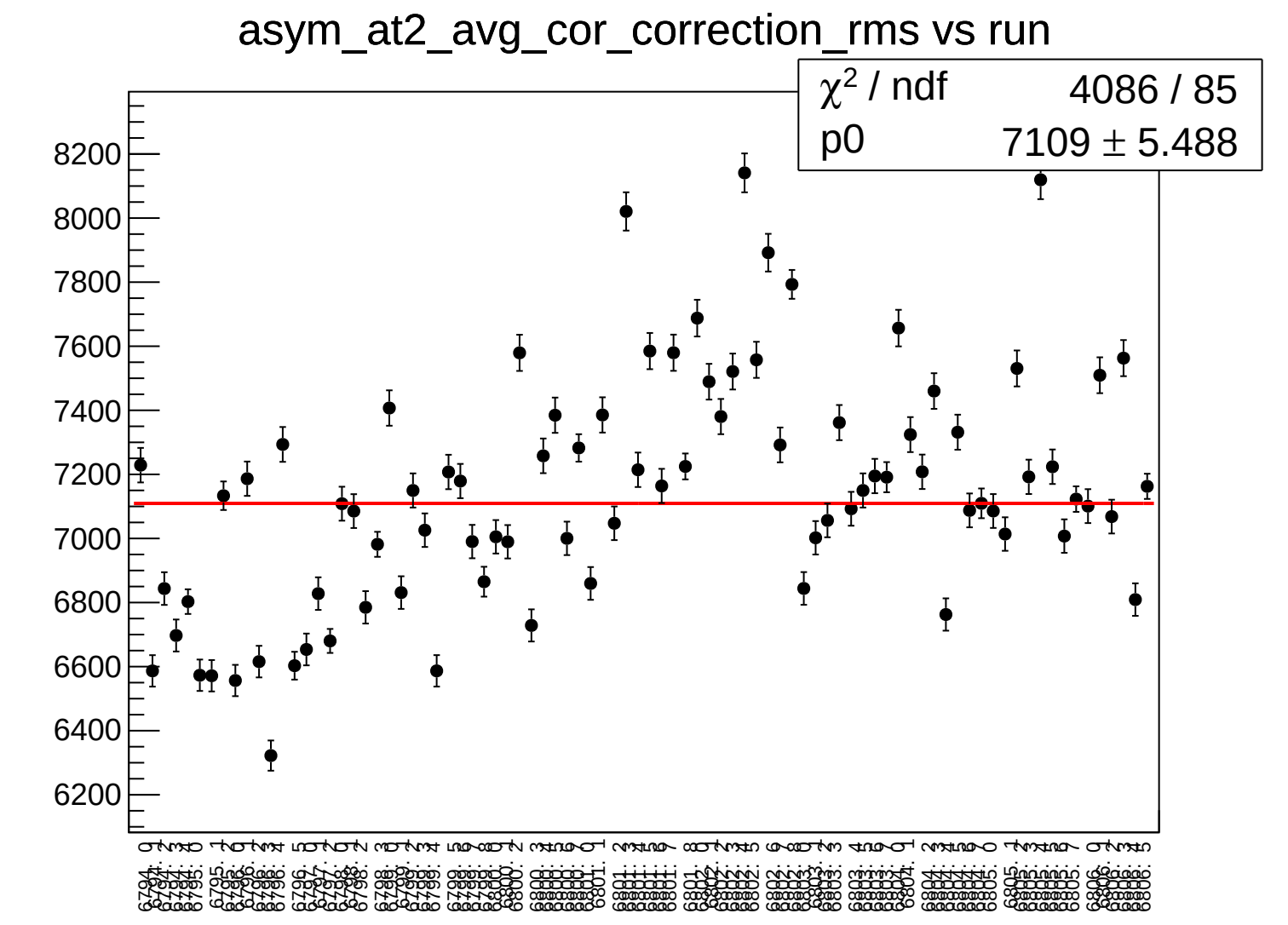

cor_asym_at2_avg_mean vs run
χ² / ndf 88.13 / 85
p0 −1057 ± 1911
pull
Entries 86
Mean 351.6
Std Dev 0

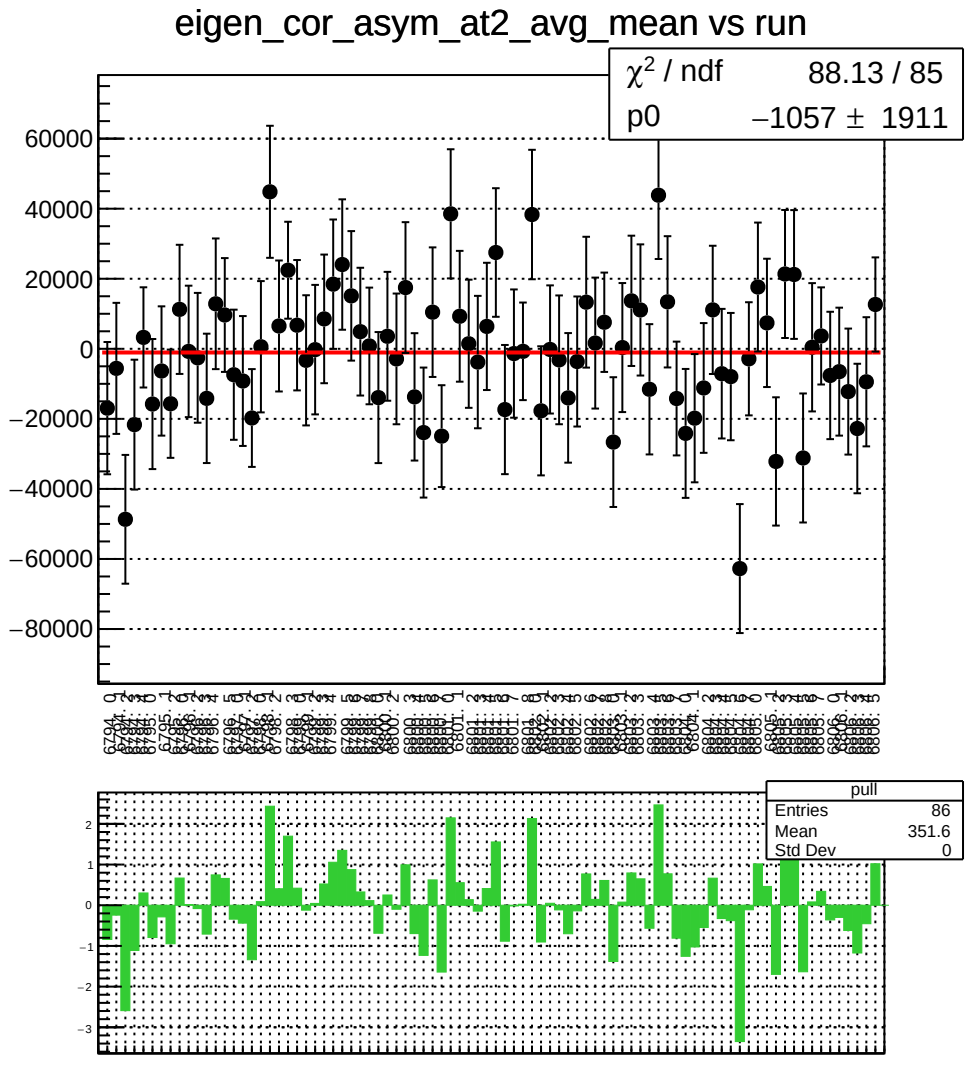

pull1D
Entries 86
Mean −0.002185
Std Dev 1.012

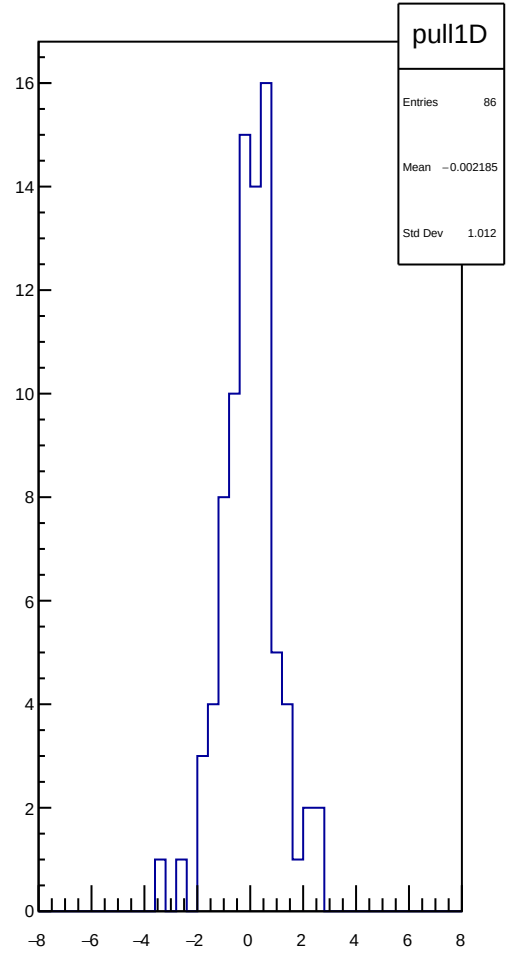

cor_asym_at2_avg_rms vs run
χ² / ndf 151.7 / 85
p0 1753 ± 1.351
1800
1780
1760
1740
1720
1700

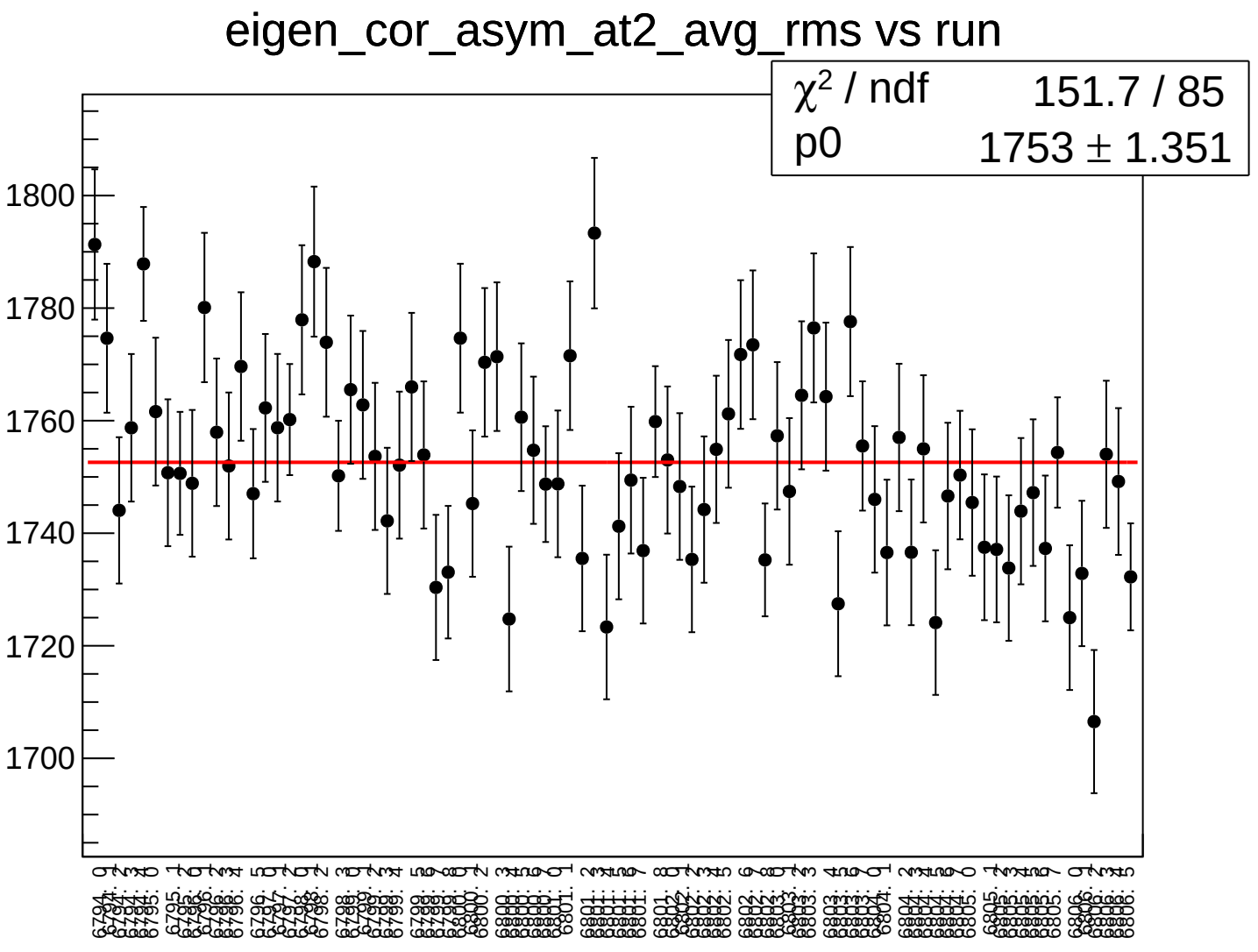

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.63 / 85
p0 −6620 ± 7761
200
100
0
−100
−200
−300
pull
Entries 86
Mean −88.81
Std Dev 0
3
2
1
0
−1
−2
−3

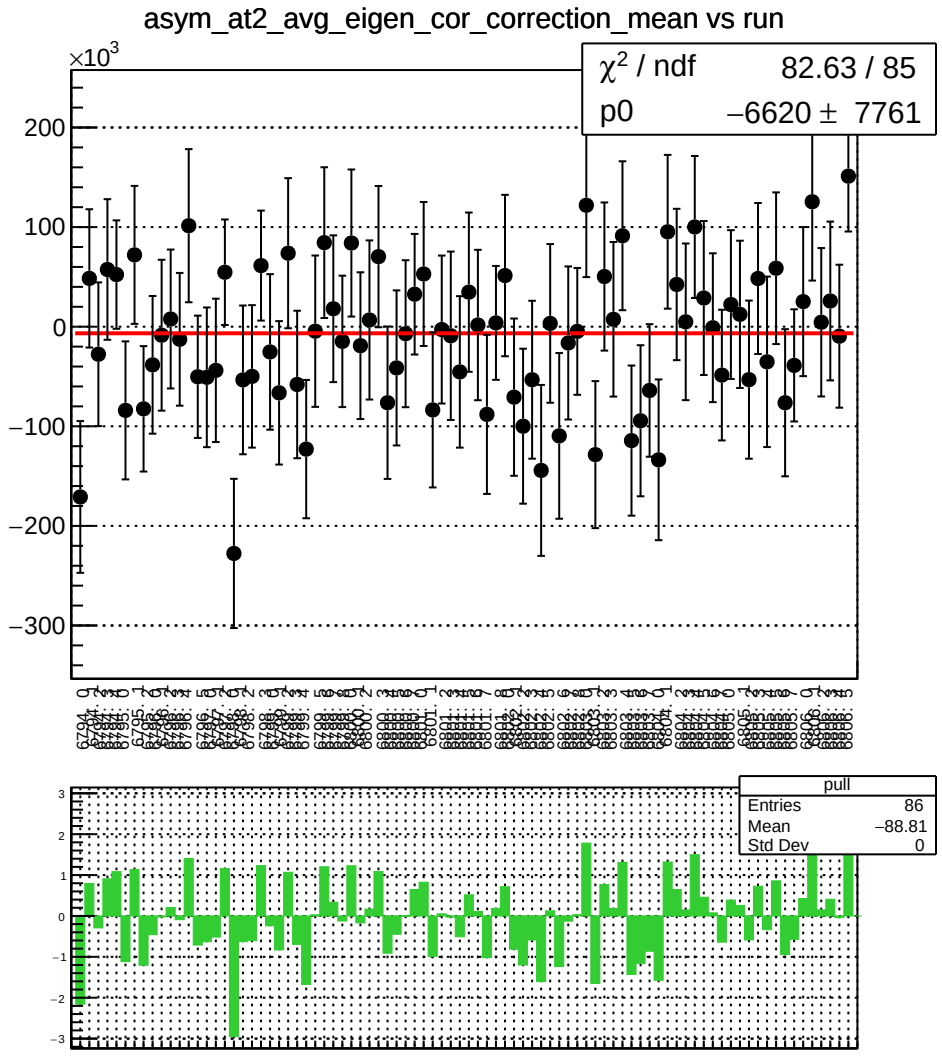

pull1D
Entries 86
Mean −0.02622
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

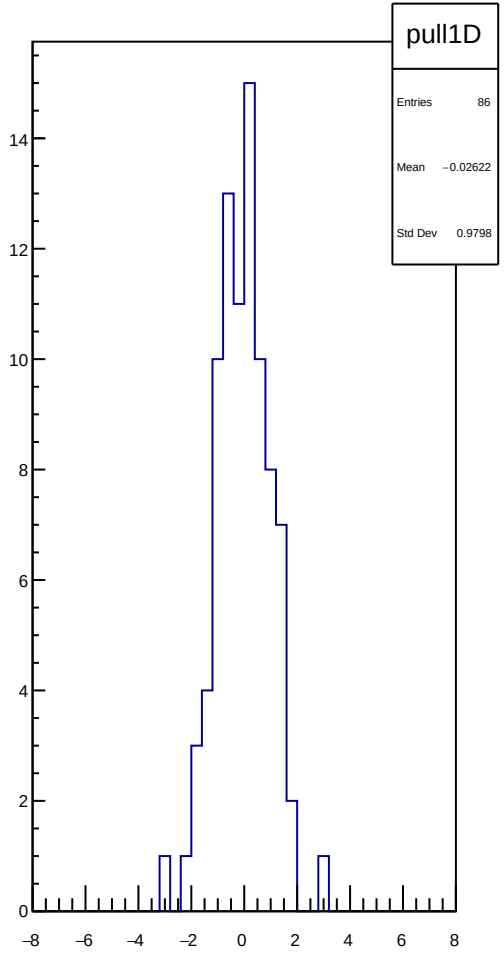

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 4086 / 85
p0 7109 ± 5.488
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

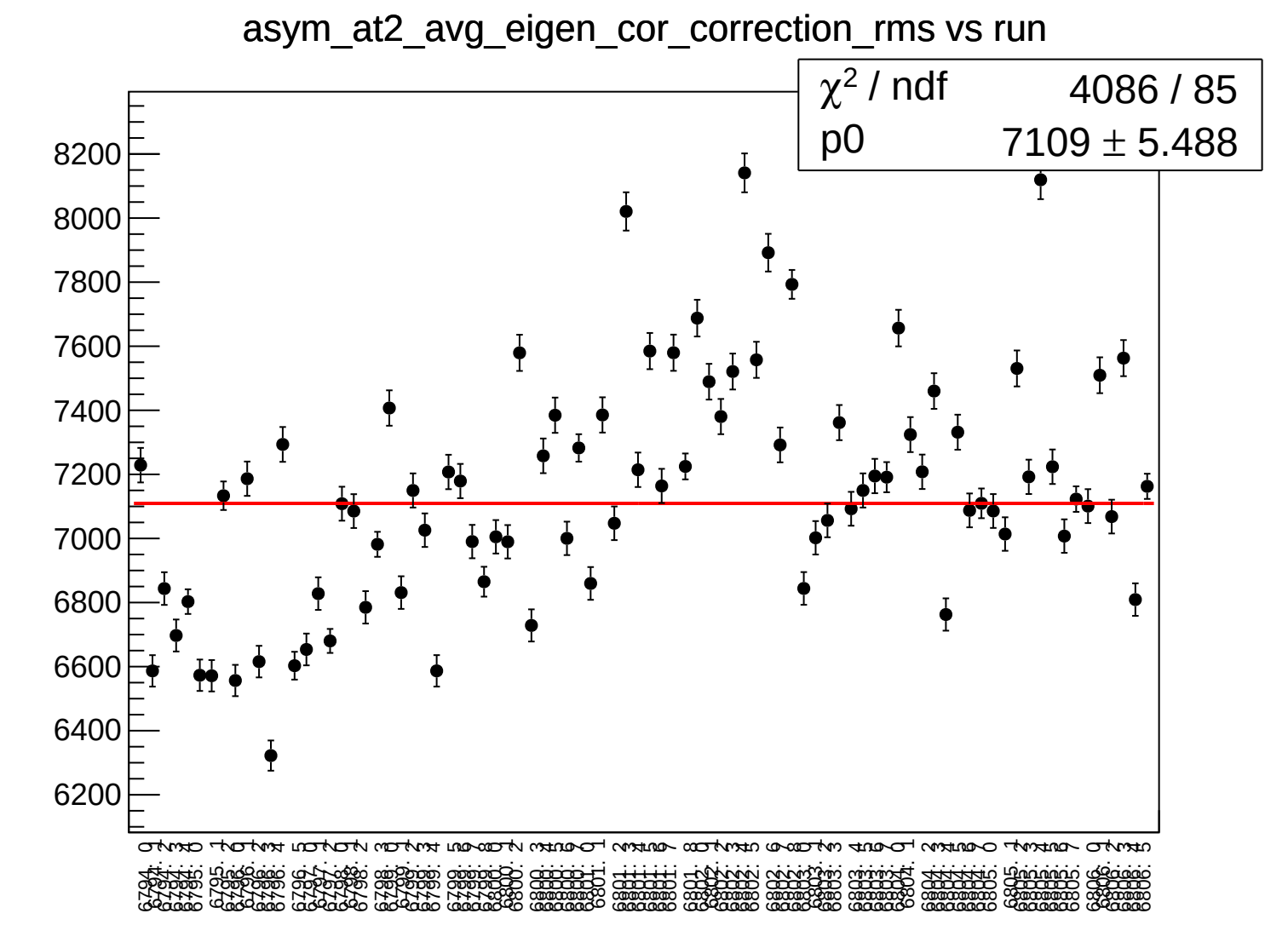

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 88.13 / 85
p0 −1057 ± 1911
pull
Entries 86
Mean 351.6
Std Dev 0

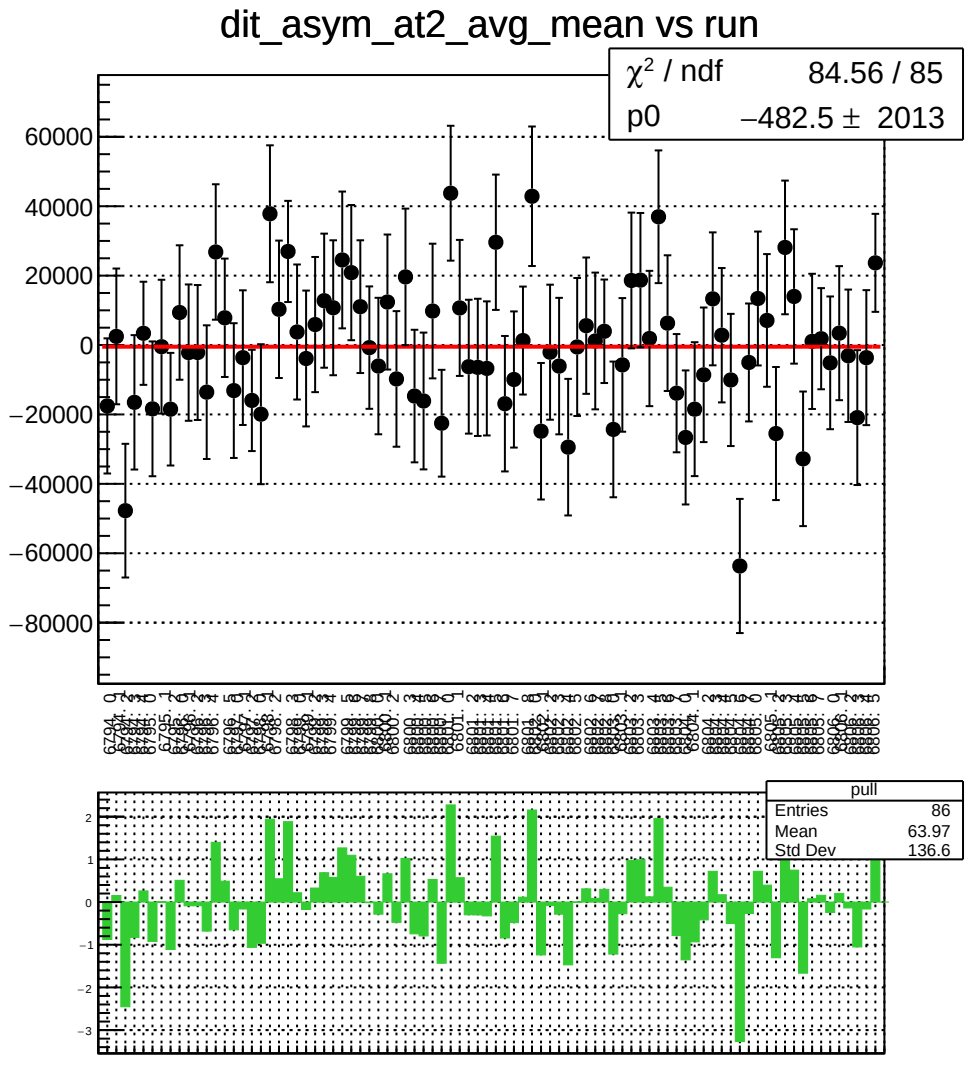

pull1D
Entries 86
Mean −0.002185
Std Dev 1.012

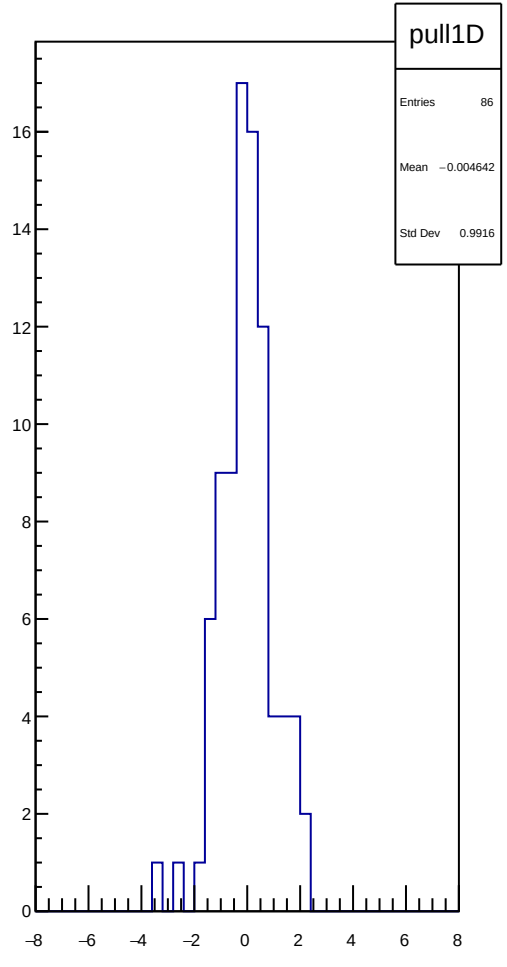

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 151.7 / 85
p0 1753 ± 1.351
1800
1780
1760
1740
1720
1700

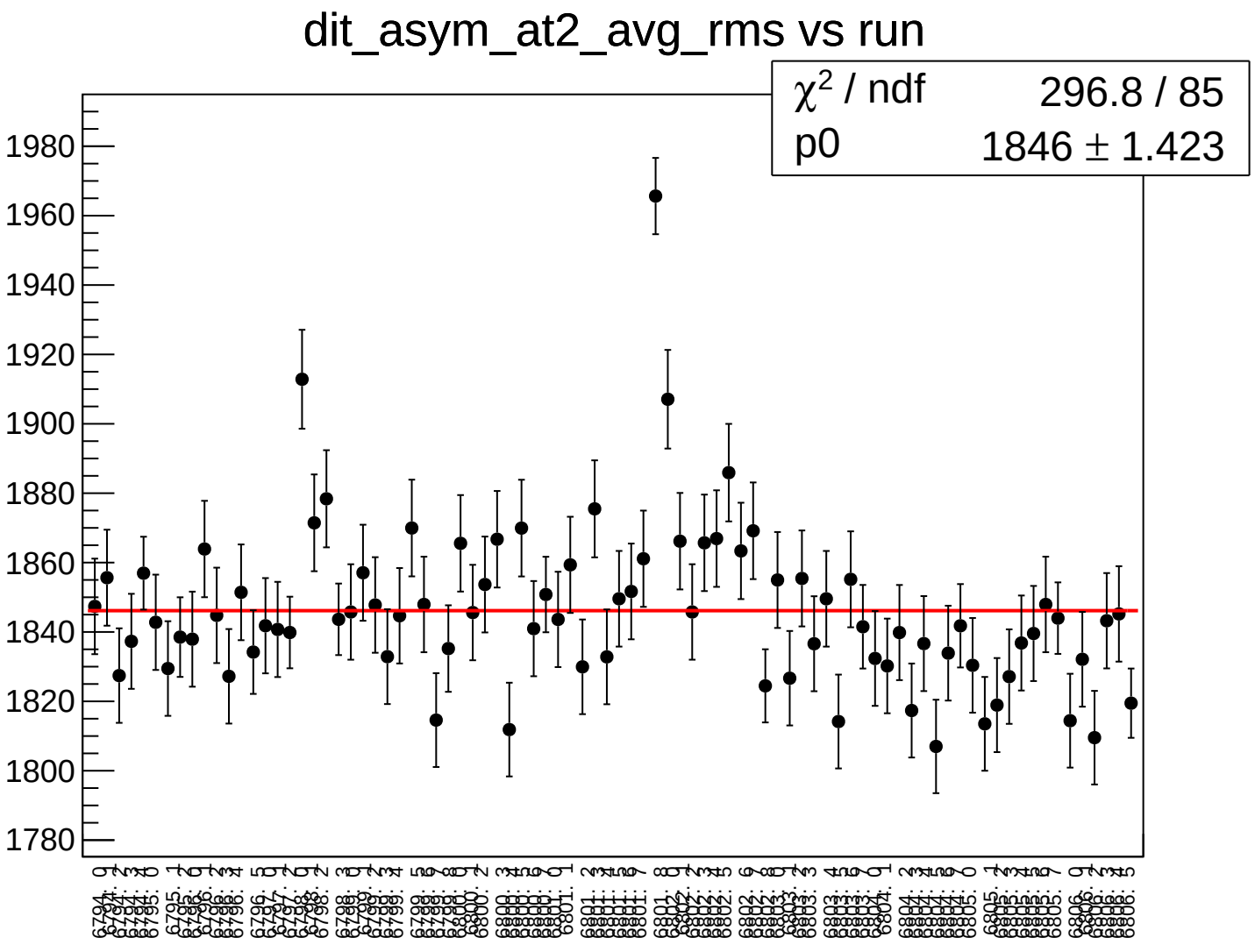

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.63 / 85
p0 −6620 ± 7761
200
100
0
−100
−200
−300
pull
Entries 86
Mean −88.81
Std Dev 0
3
2
1
0
−1
−2
−3

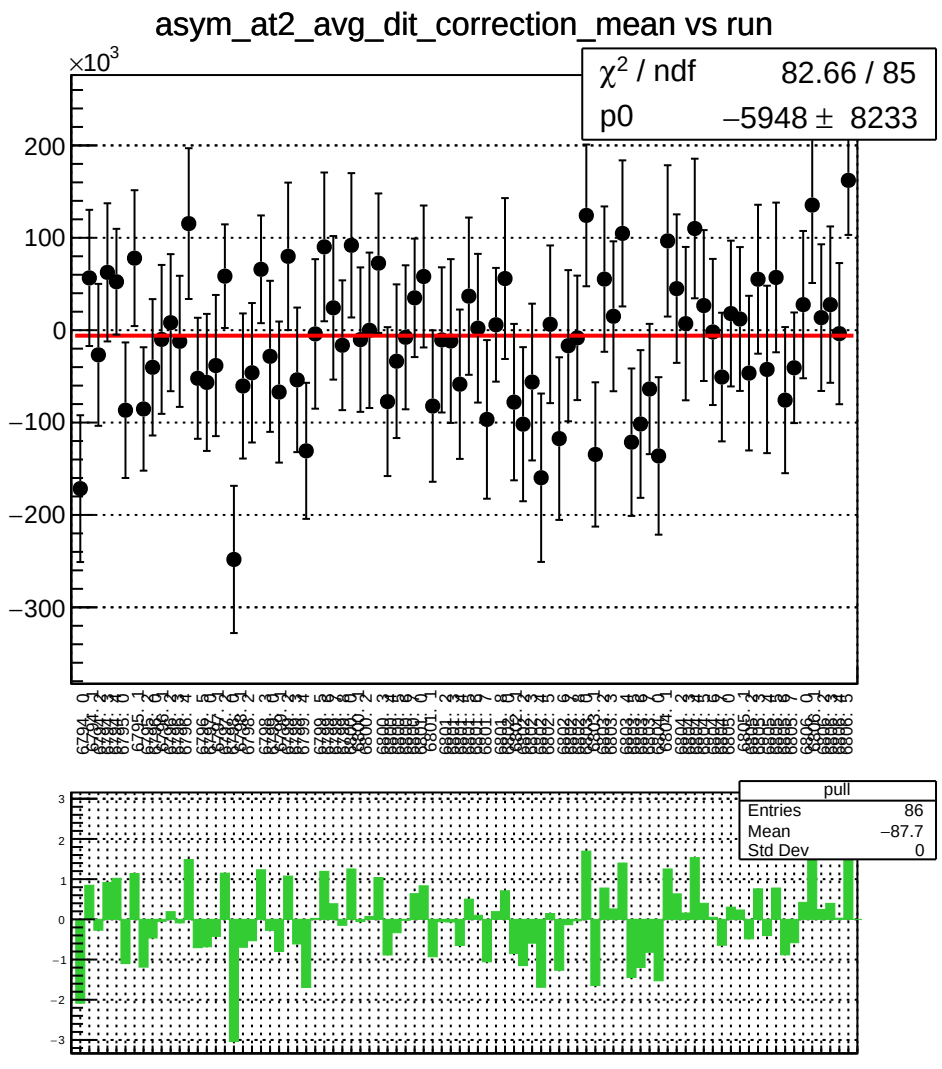

pull1D
Entries 86
Mean −0.02622
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

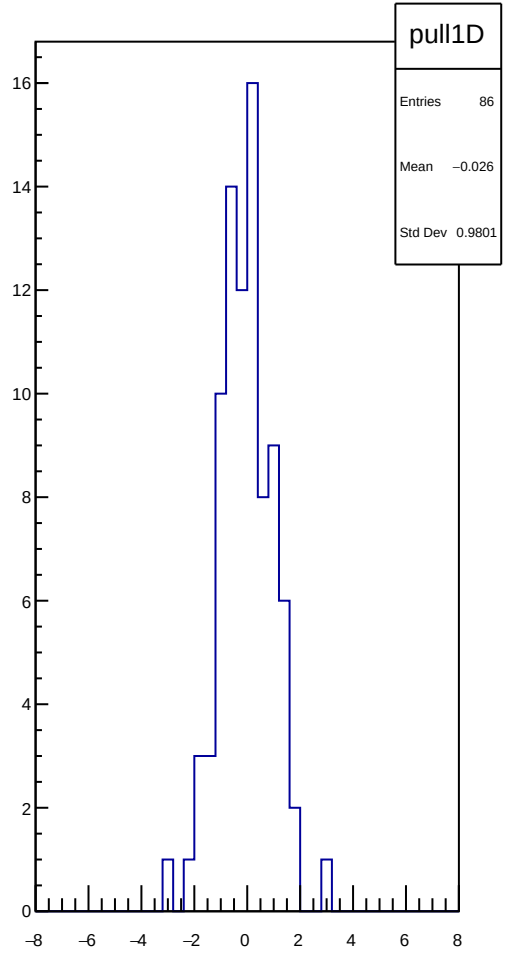

asym_at2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 4086 / 85
p0 7109 ± 5.488
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

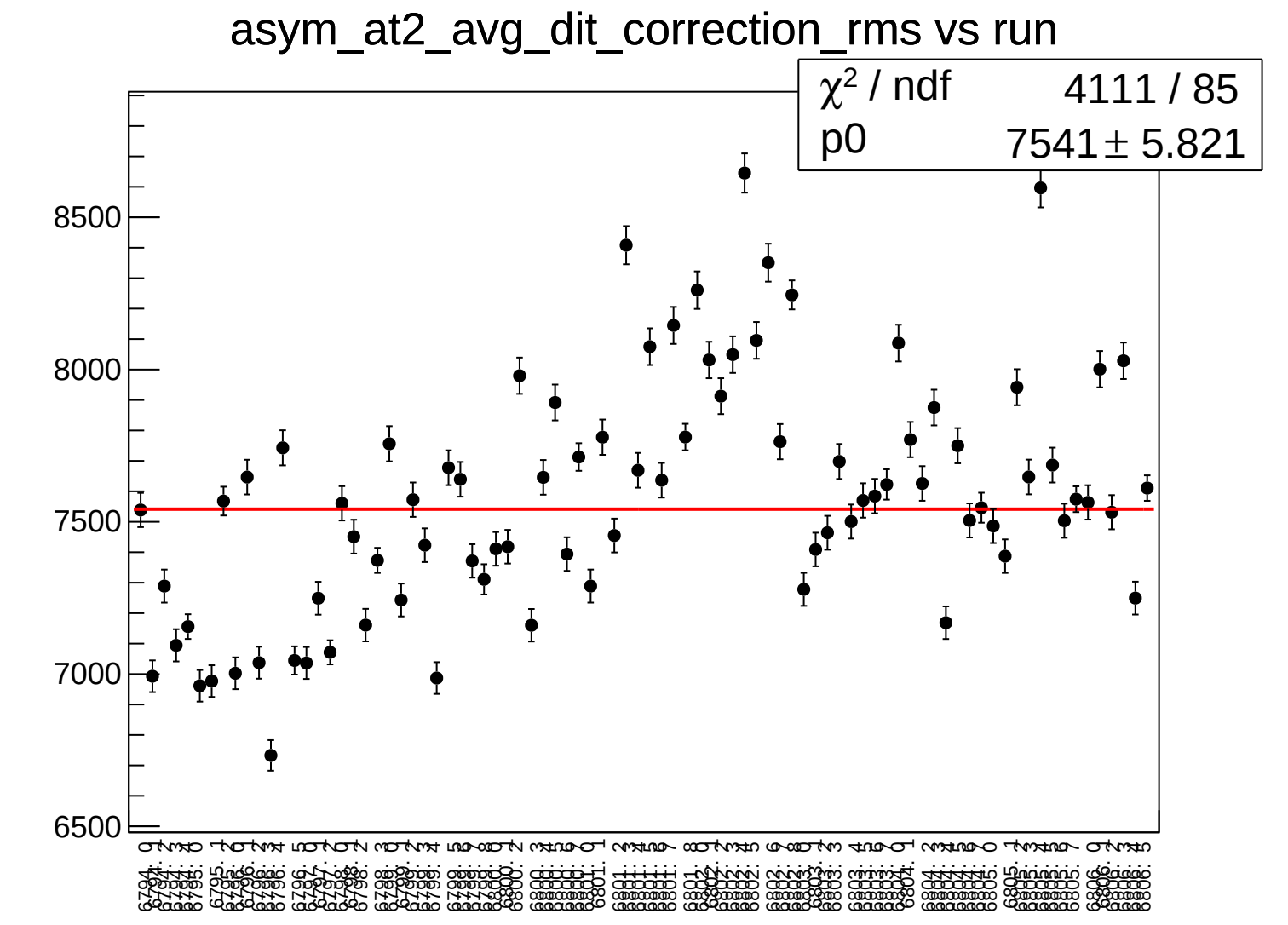

dit_asym_at2_avg_mean vs run
χ² / ndf 84.56 / 85
p0 −482.5 ± 2013
pull
Entries 86
Mean 63.97
Std Dev 136.6

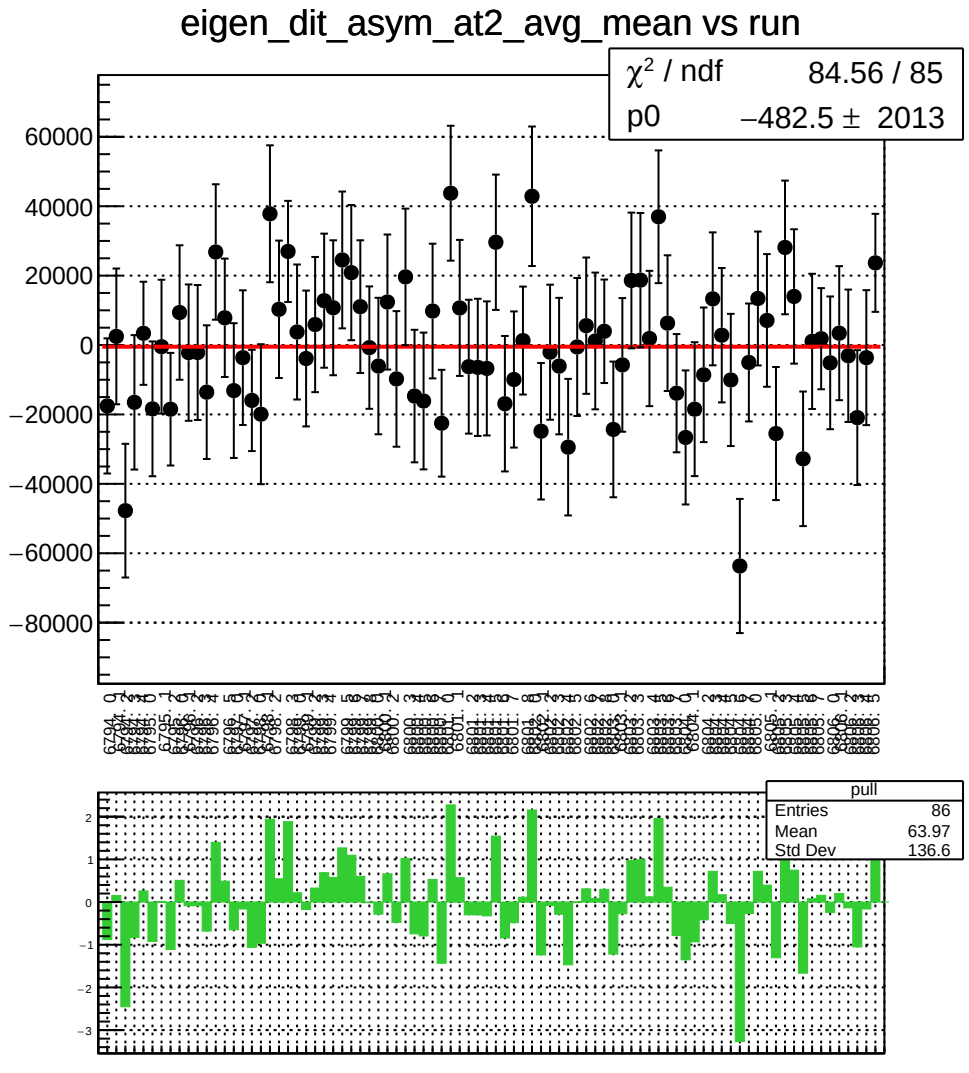

pull1D
Entries 86
Mean −0.004642
Std Dev 0.9916

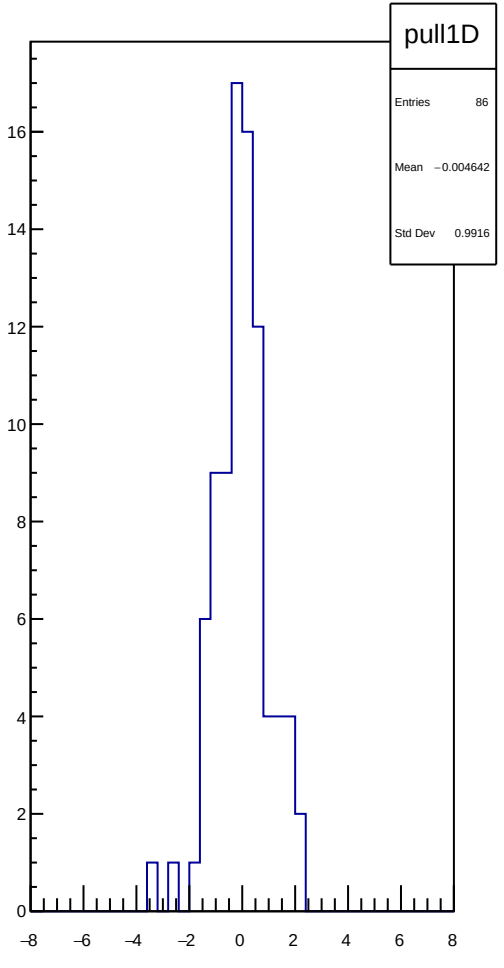

dit_asym_at2_avg_rms vs run
χ^2 / ndf 296.8 / 85
p0 1846 ± 1.423
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

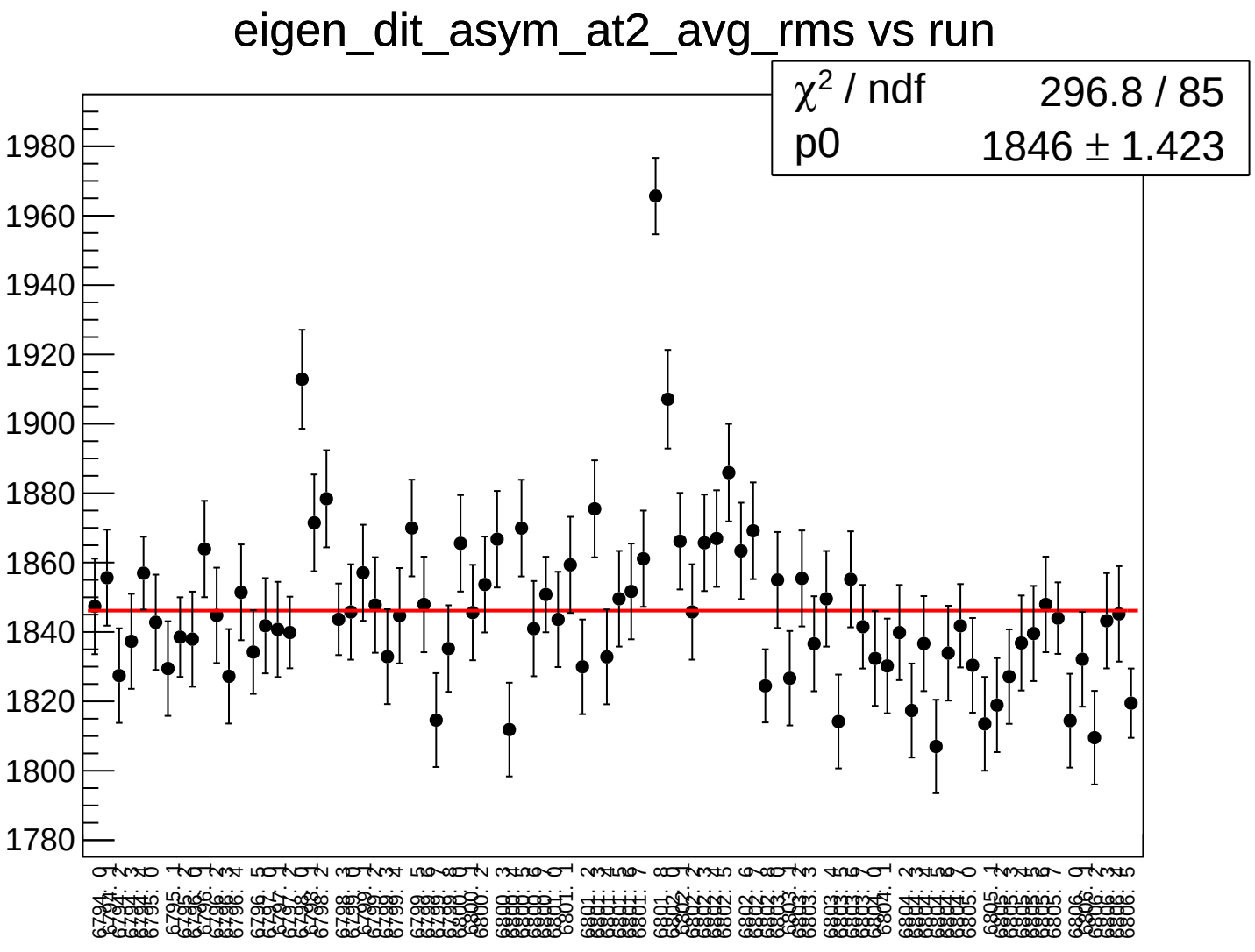

asym_at2_avg_dit_correction_mean vs run
χ² / ndf 82.66 / 85
p0 −5948 ± 8233
×10³
200
100
0
−100
−200
−300
pull
Entries 86
Mean −87.7
Std Dev 0
3
2
1
0
−1
−2
−3

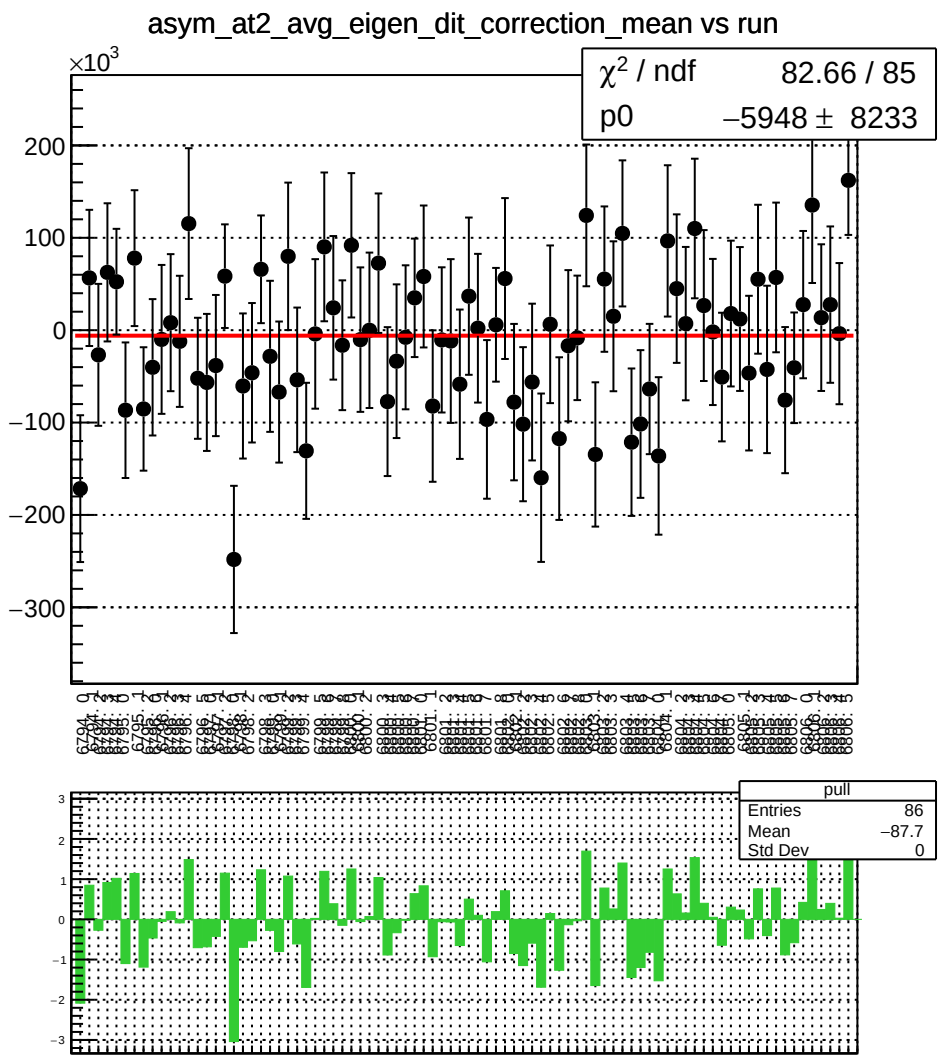

pull1D
Entries 86
Mean −0.026
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

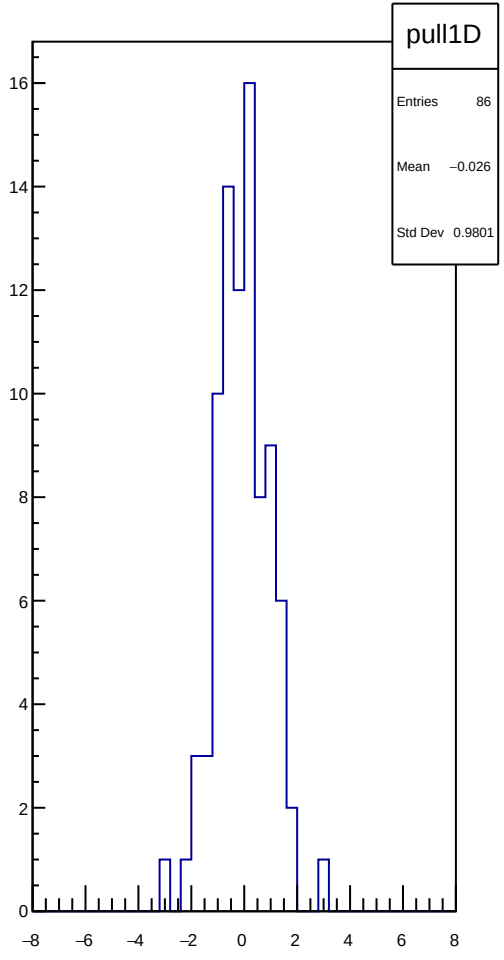

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 4111 / 85
p0 7541 ± 5.821
8500
8000
7500
7000
6500

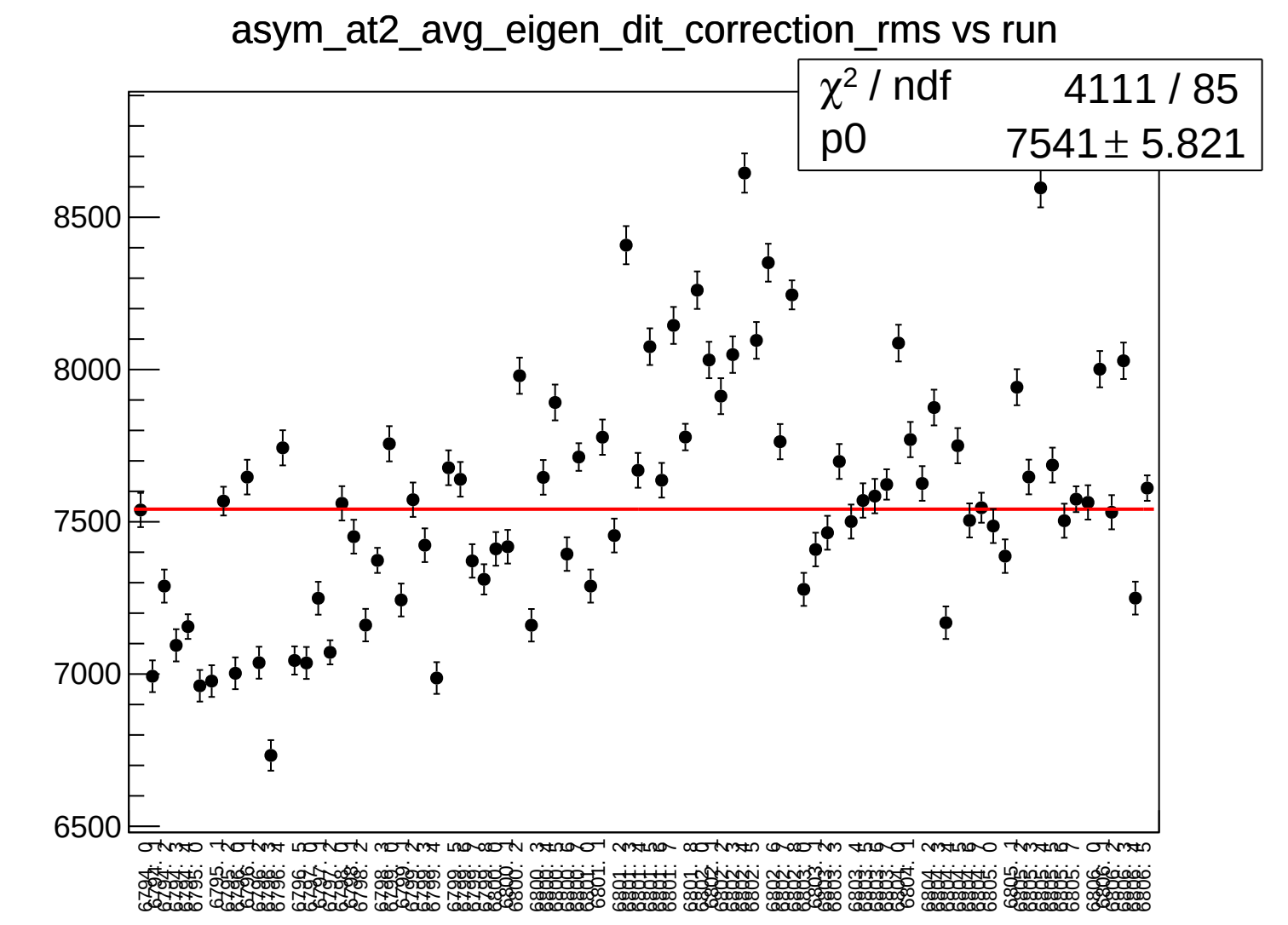

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 84.56 / 85
p0 −482.5 ± 2013
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 63.97
Std Dev 136.6
2
1
0
−1
−2
−3

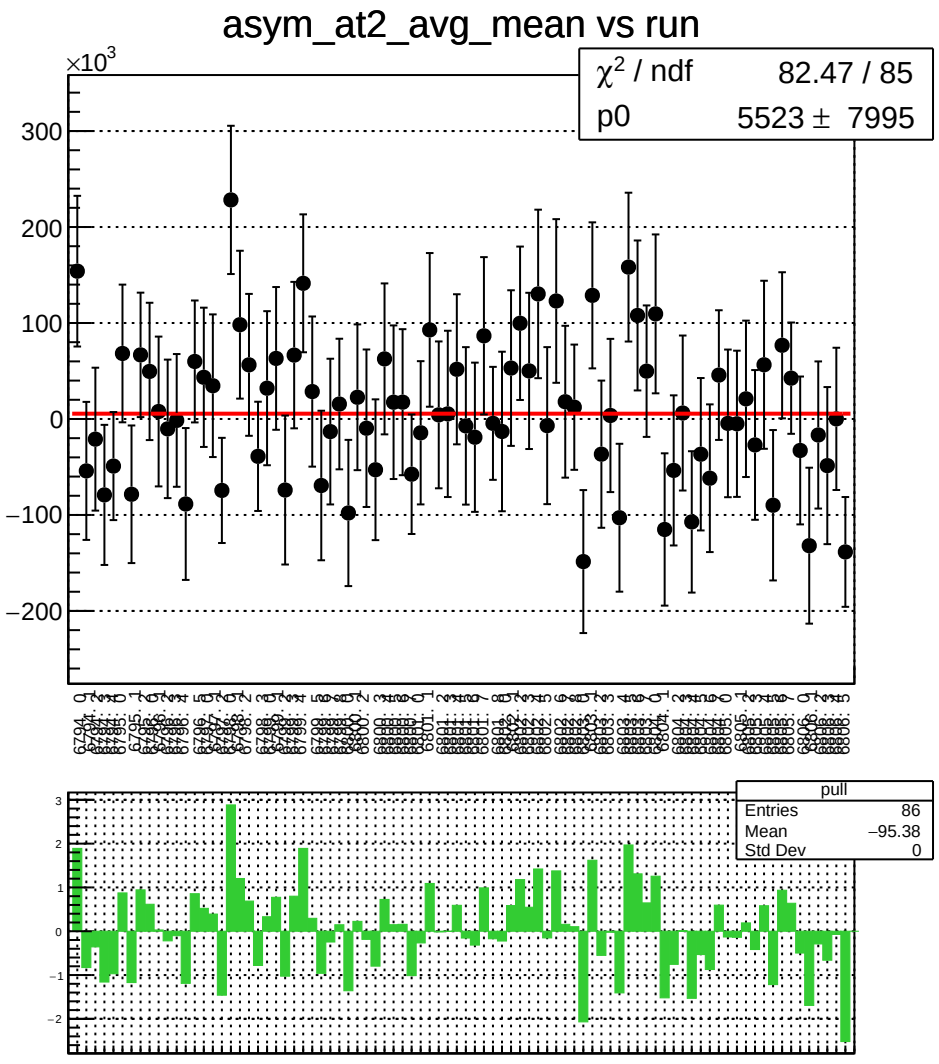

pull1D
Entries 86
Mean −0.004642
Std Dev 0.9916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

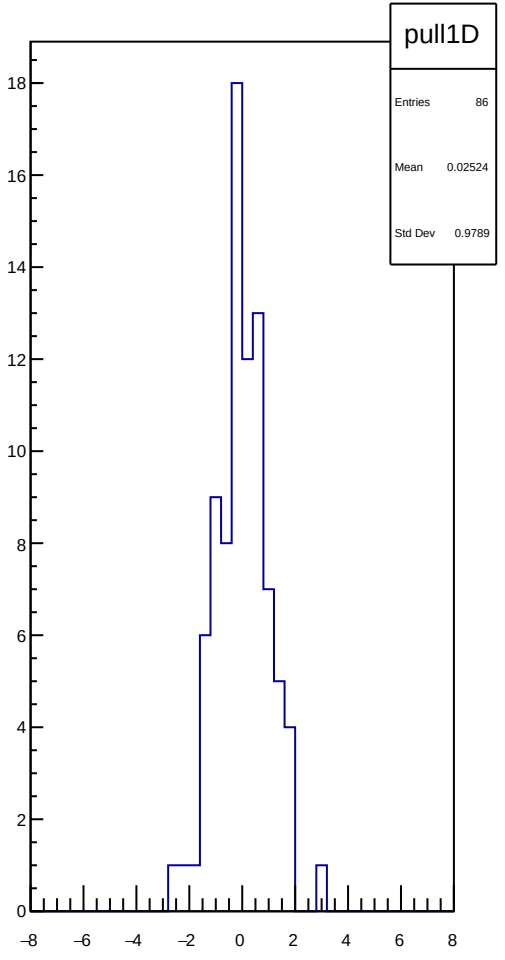

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 296.8 / 85
p0 1846 ± 1.423
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

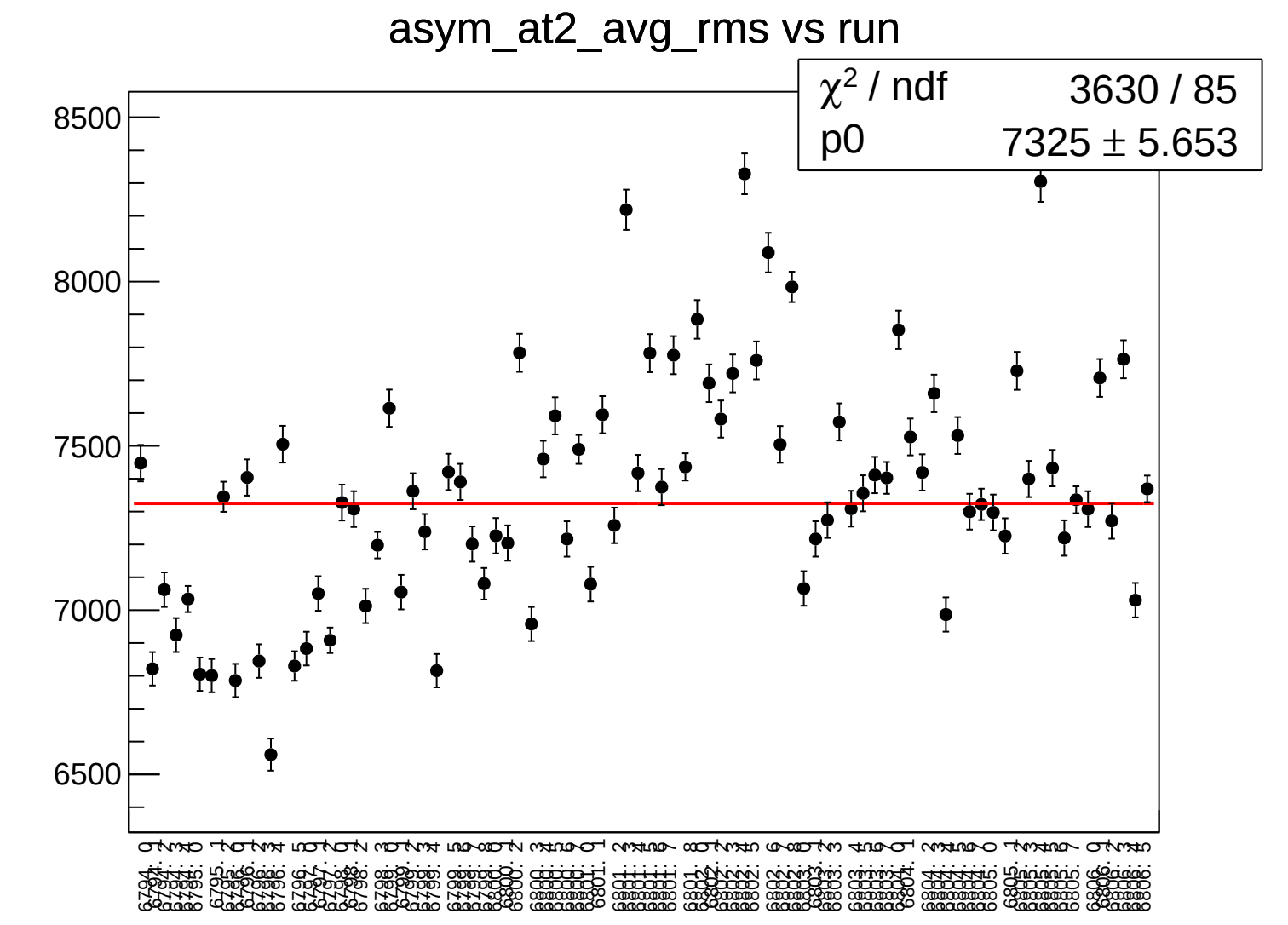

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.66 / 85
p0 −5948 ± 8233
200
100
0
−100
−200
−300
pull
Entries 86
Mean −87.7
Std Dev 0
3
2
1
0
−1
−2
−3

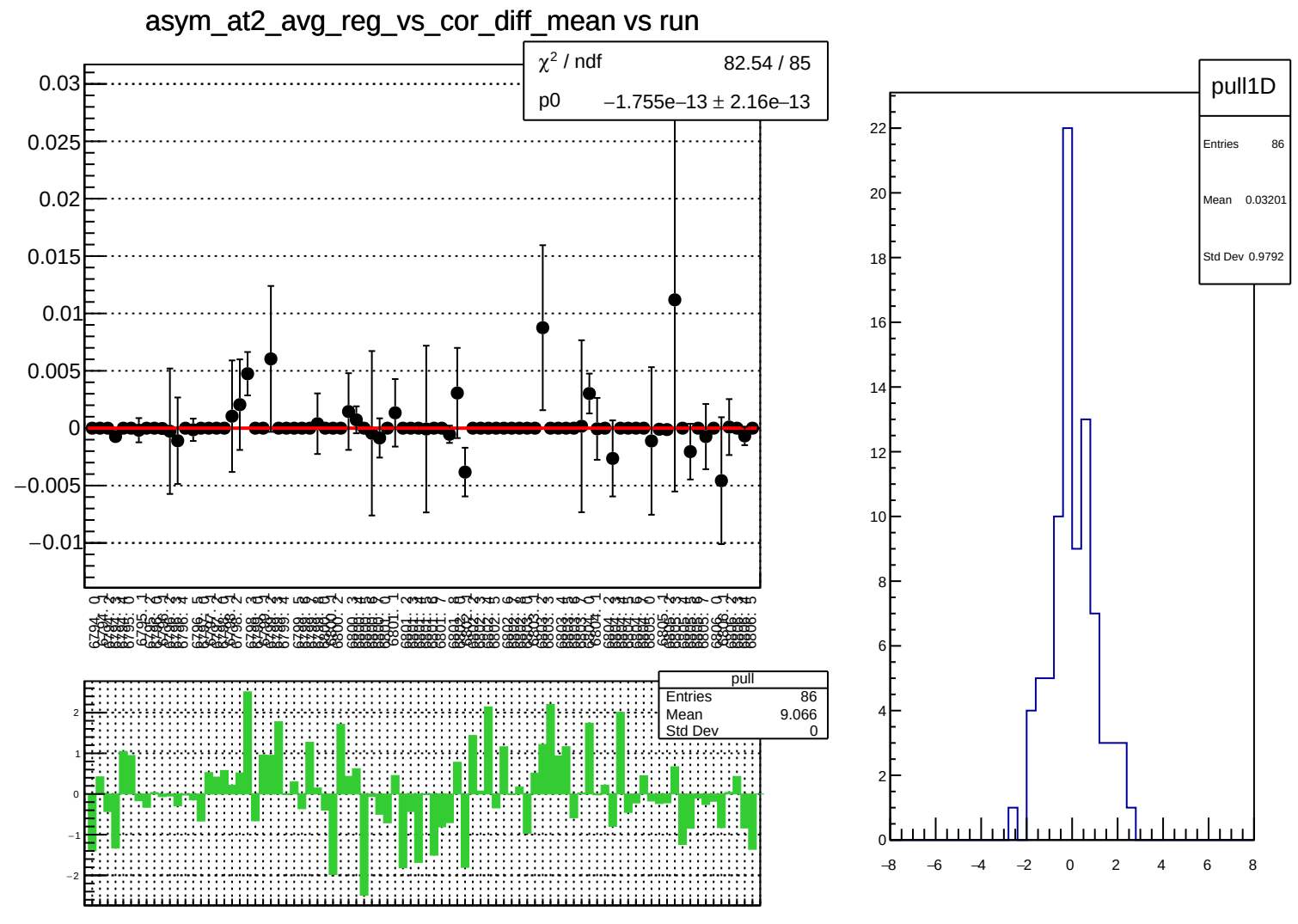

pull1D
Entries 86
Mean −0.026
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

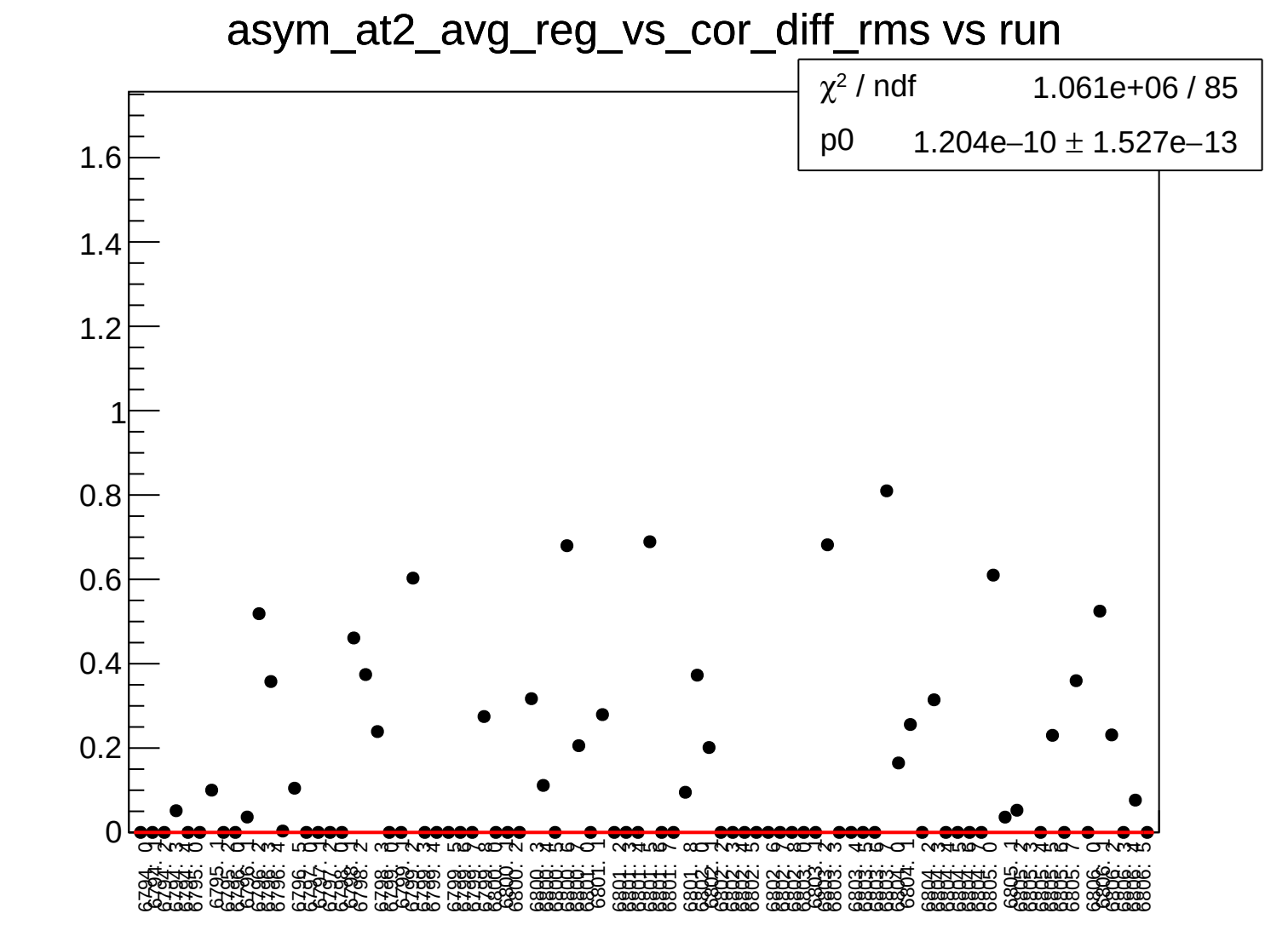

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4111 / 85
p0 7541 ± 5.821
8500
8000
7500
7000
6500

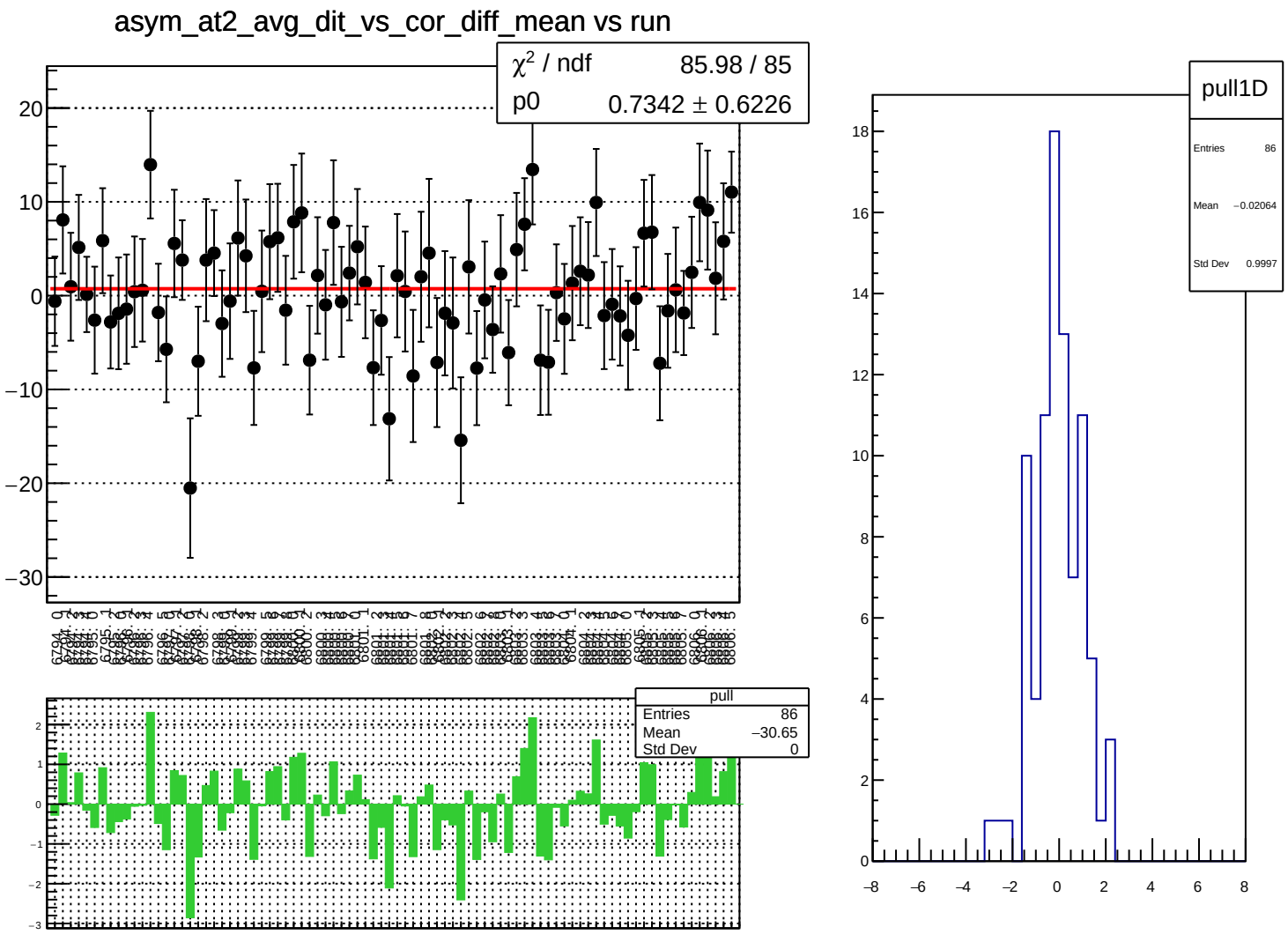

asym_at2_avg_mean vs run
×10^3
χ² / ndf 82.47 / 85
p0 5523 ± 7995
300
200
100
0
−100
−200
pull
Entries 86
Mean −95.38
Std Dev 0
3
2
1
0
−1
−2

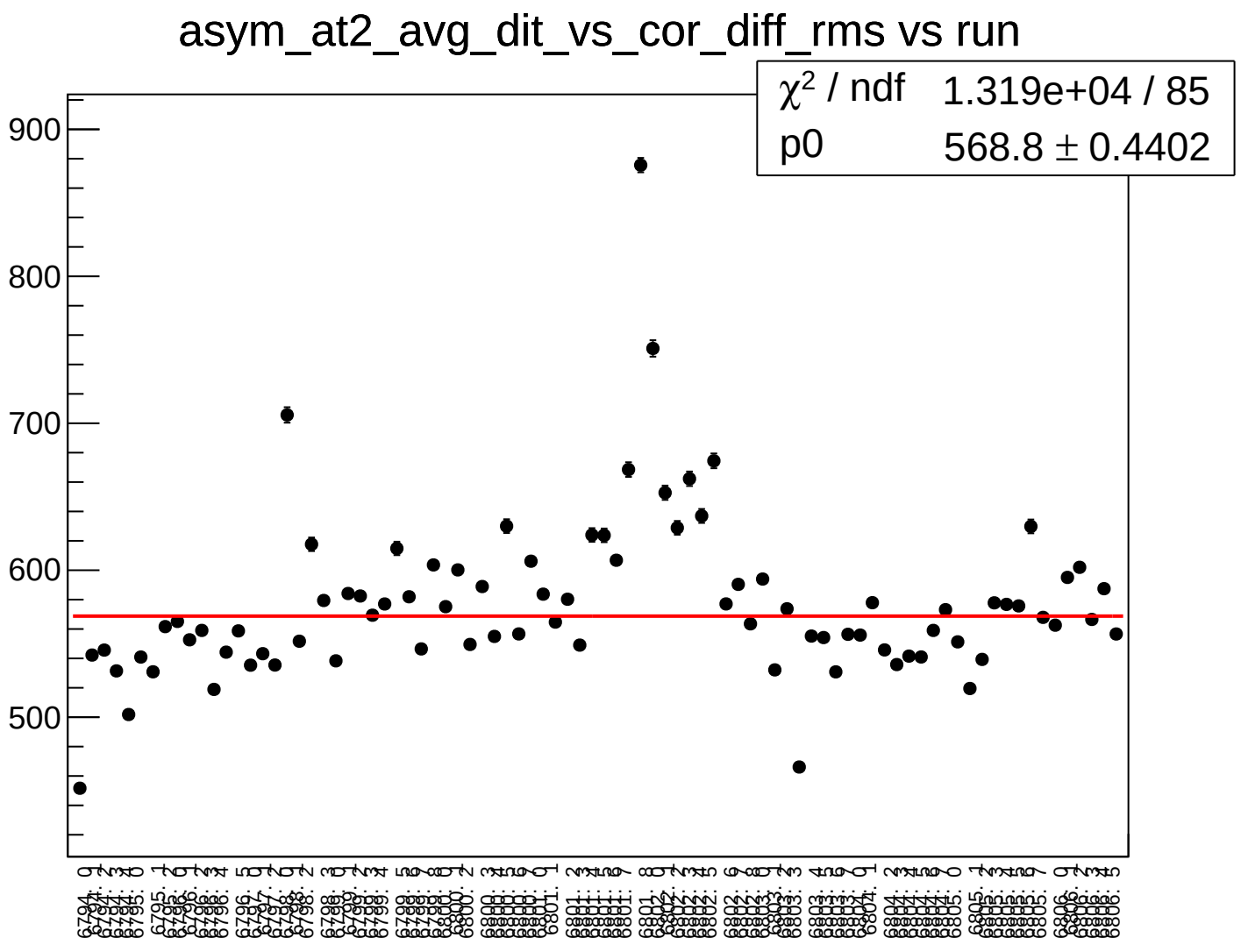

pull1D
Entries 86
Mean 0.02524
Std Dev 0.9789
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

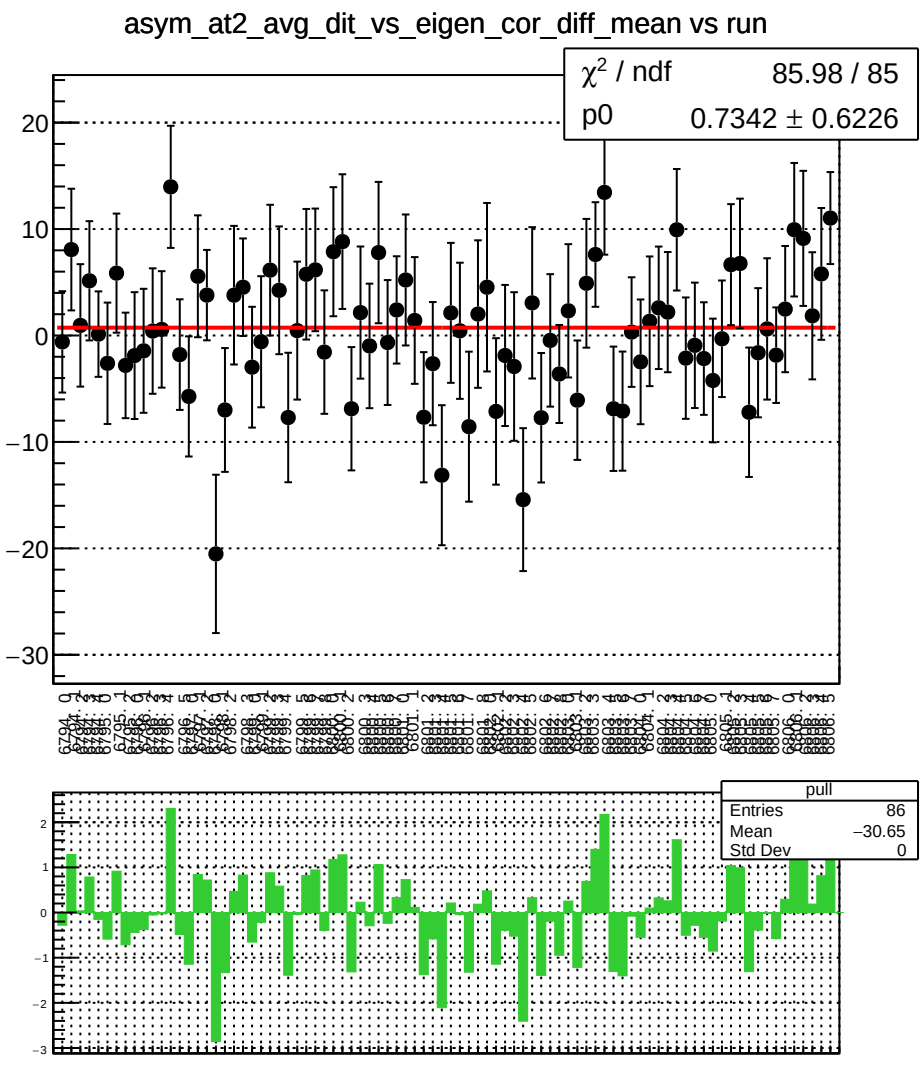

asym_at2_avg_rms vs run
χ² / ndf 3630 / 85
p0 7325 ± 5.653
8500
8000
7500
7000
6500

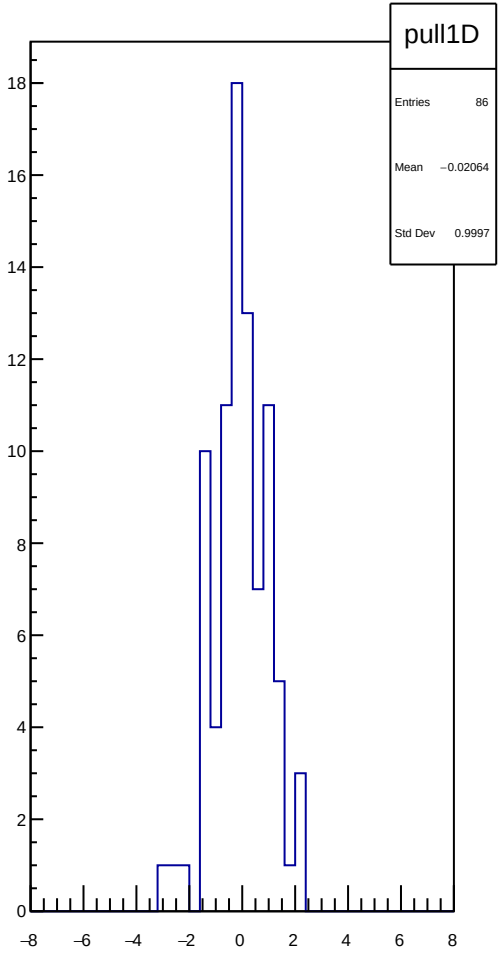

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.54 / 85
p0 −1.755e−13 ± 2.16e−13
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 9.066
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.03201
Std Dev 0.9792
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

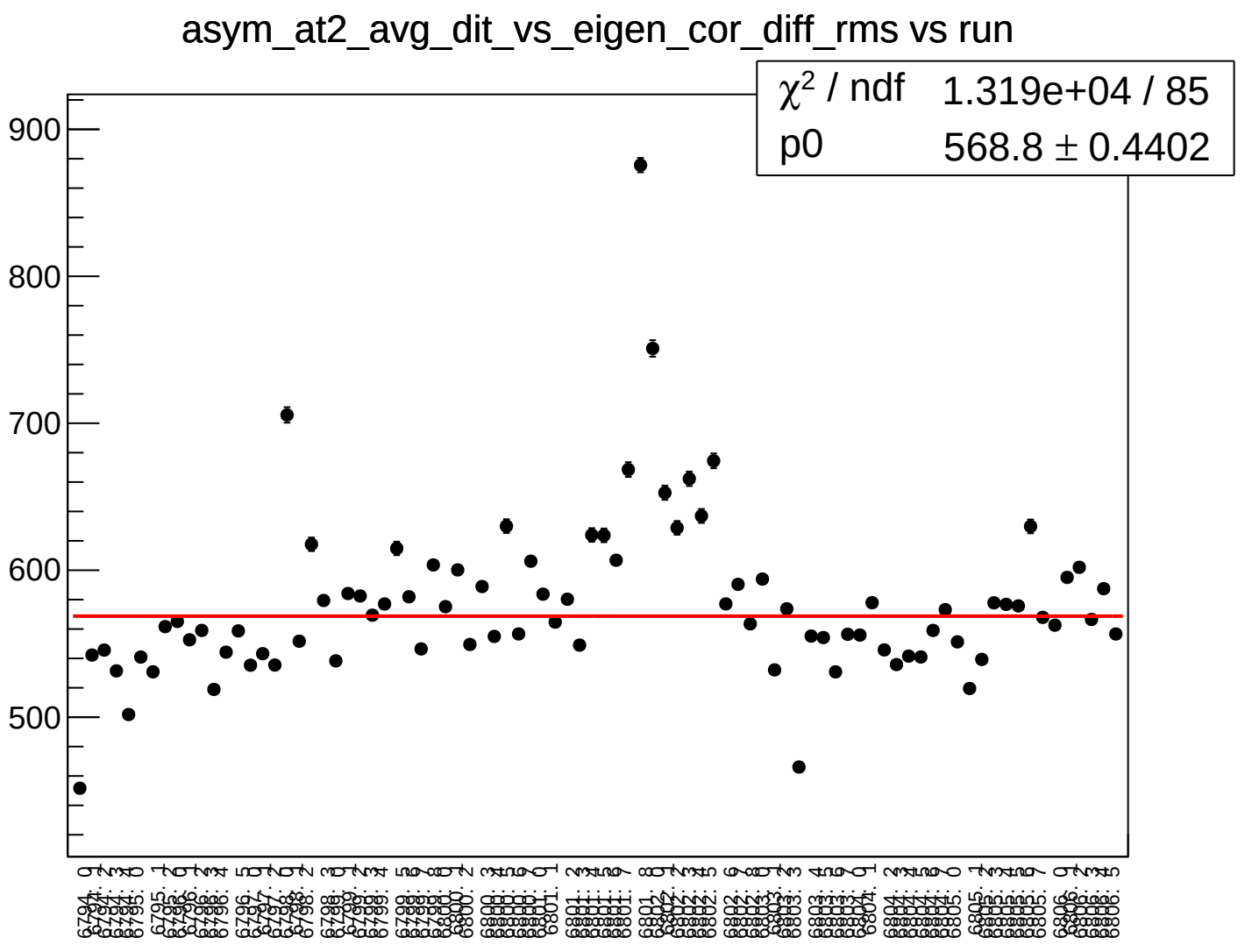

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 85
p0 1.204e−10 ± 1.527e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

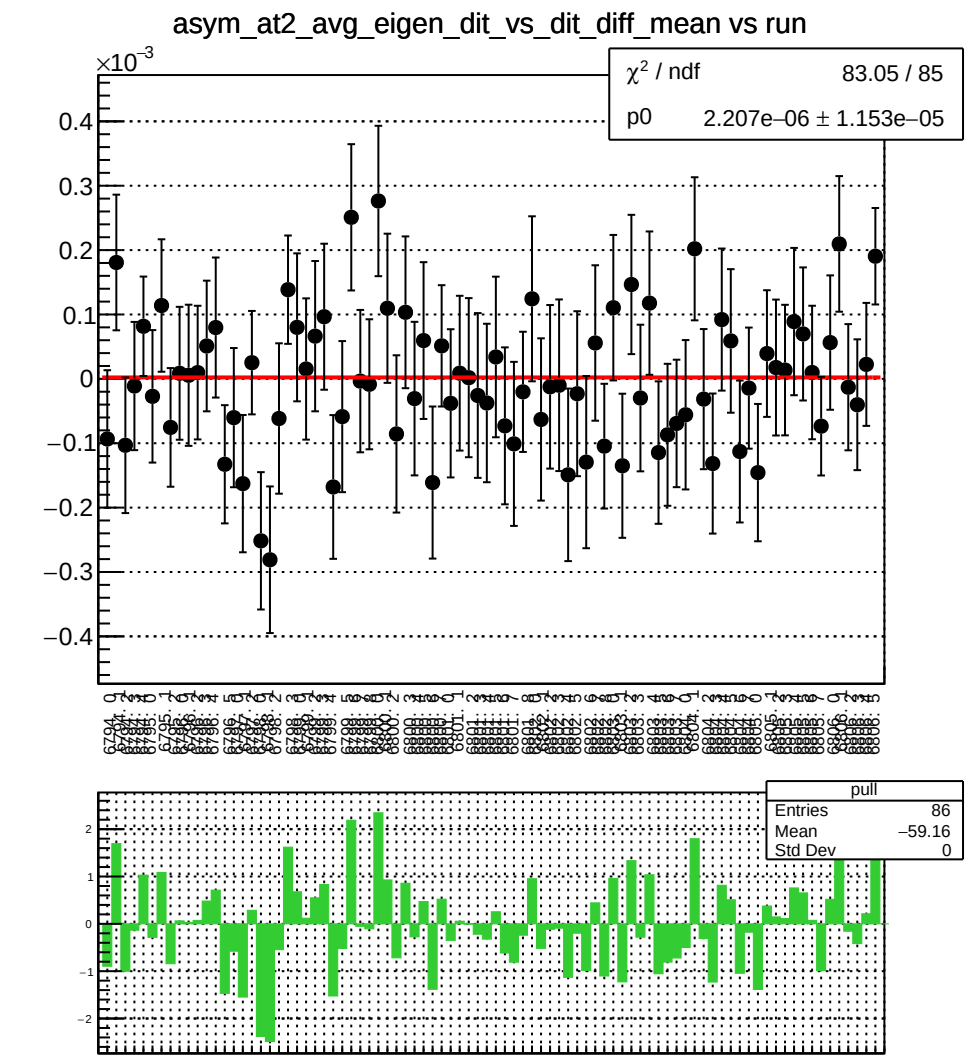

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 0.7342 ± 0.6226
pull
Entries 86
Mean −30.65
Std Dev 0
pull1D
Entries 86
Mean −0.02064
Std Dev 0.9997

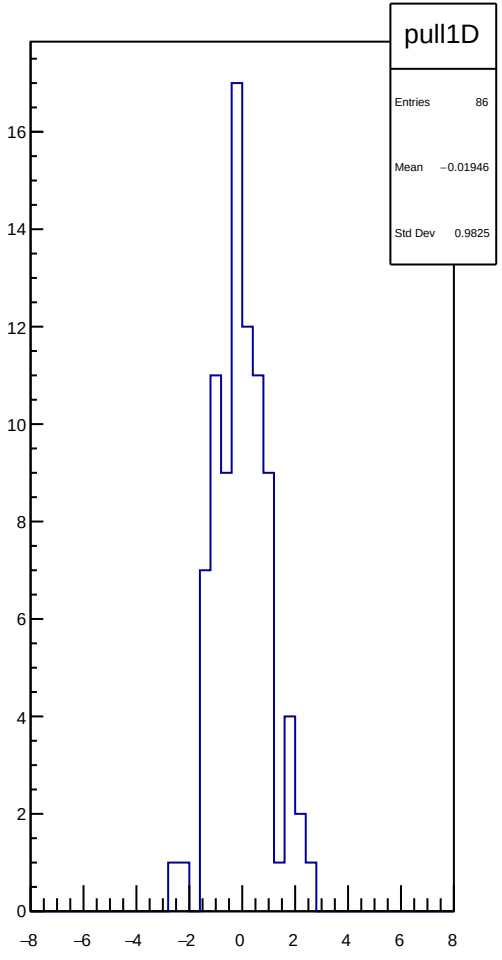

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 85
p0 568.8 ± 0.4402
900
800
700
600
500

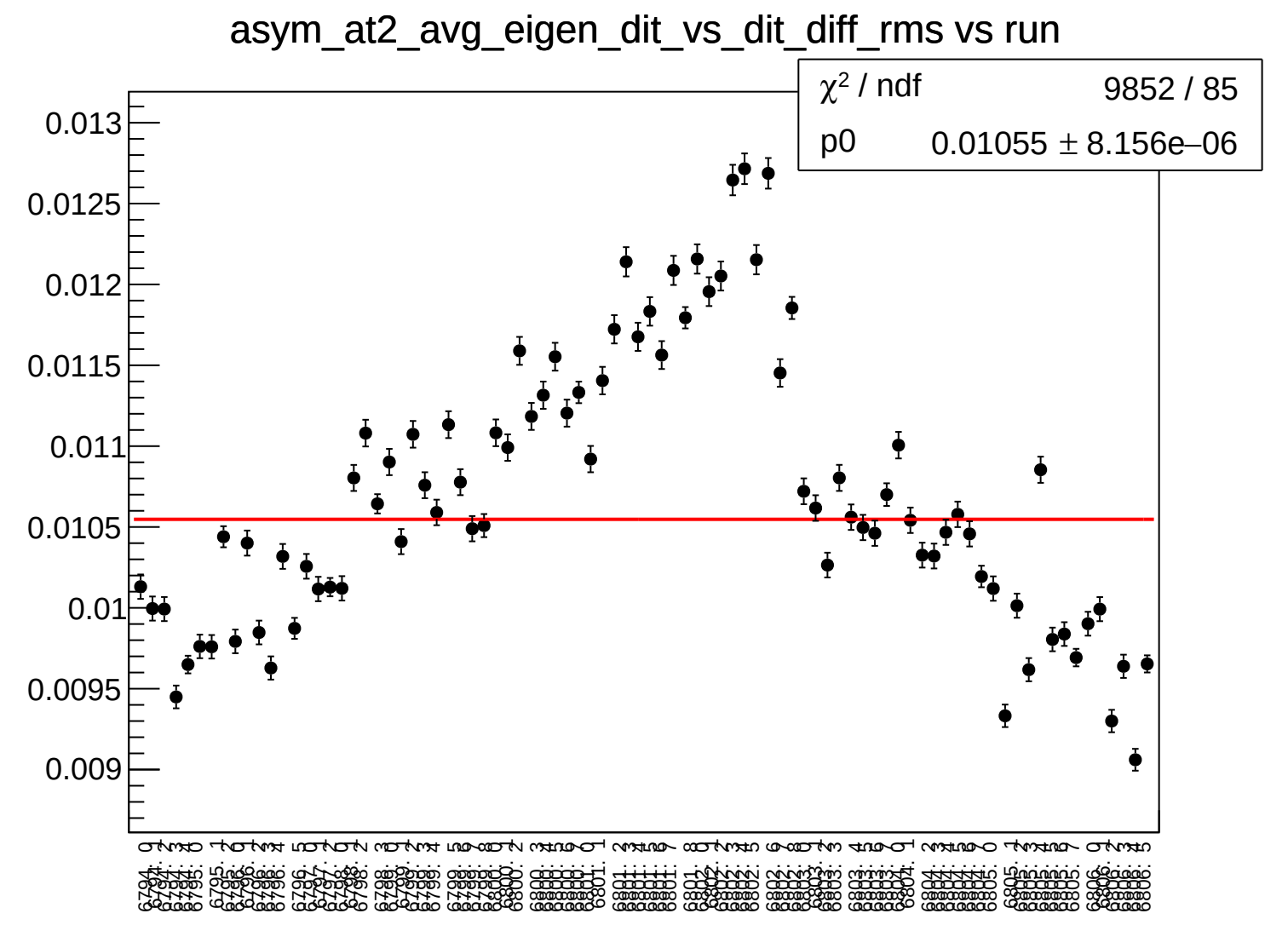

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 0.7342 ± 0.6226
pull
Entries 86
Mean −30.65
Std Dev 0

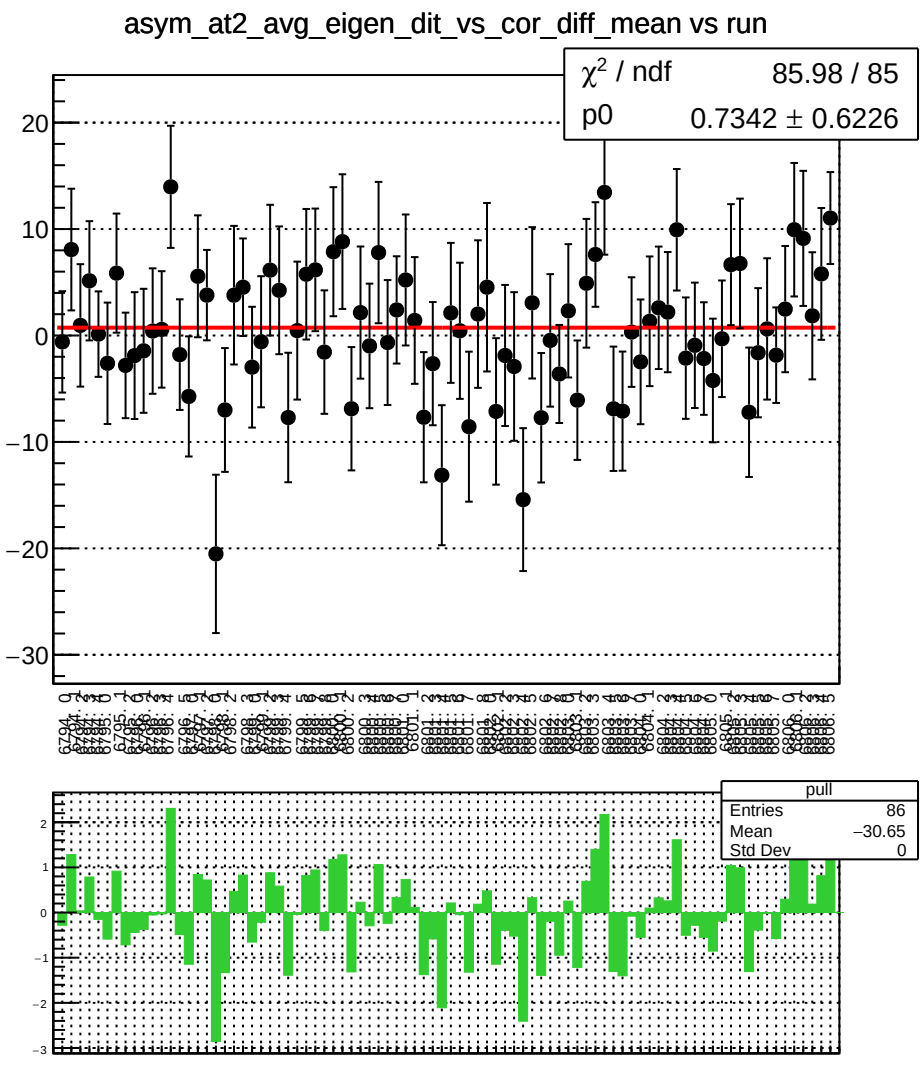

pull1D
Entries 86
Mean −0.02064
Std Dev 0.9997

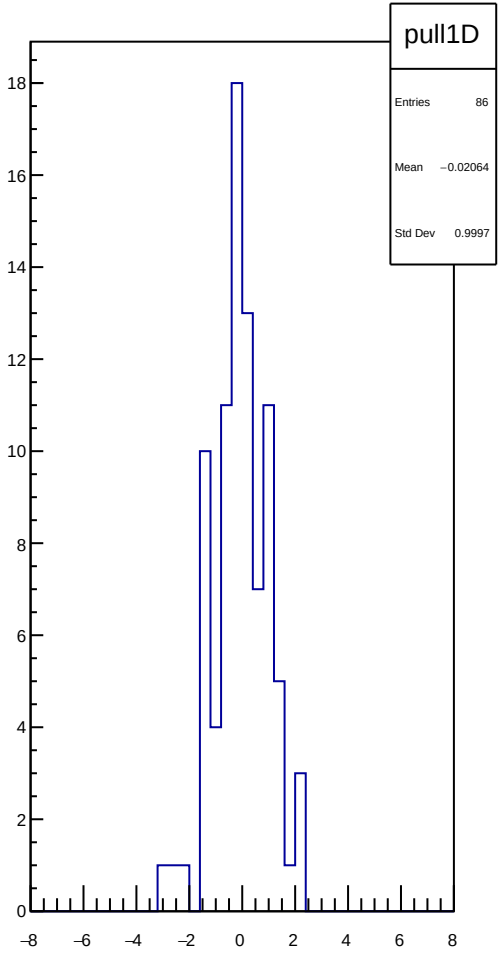

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 85
p0 568.8 ± 0.4402
900
800
700
600
500

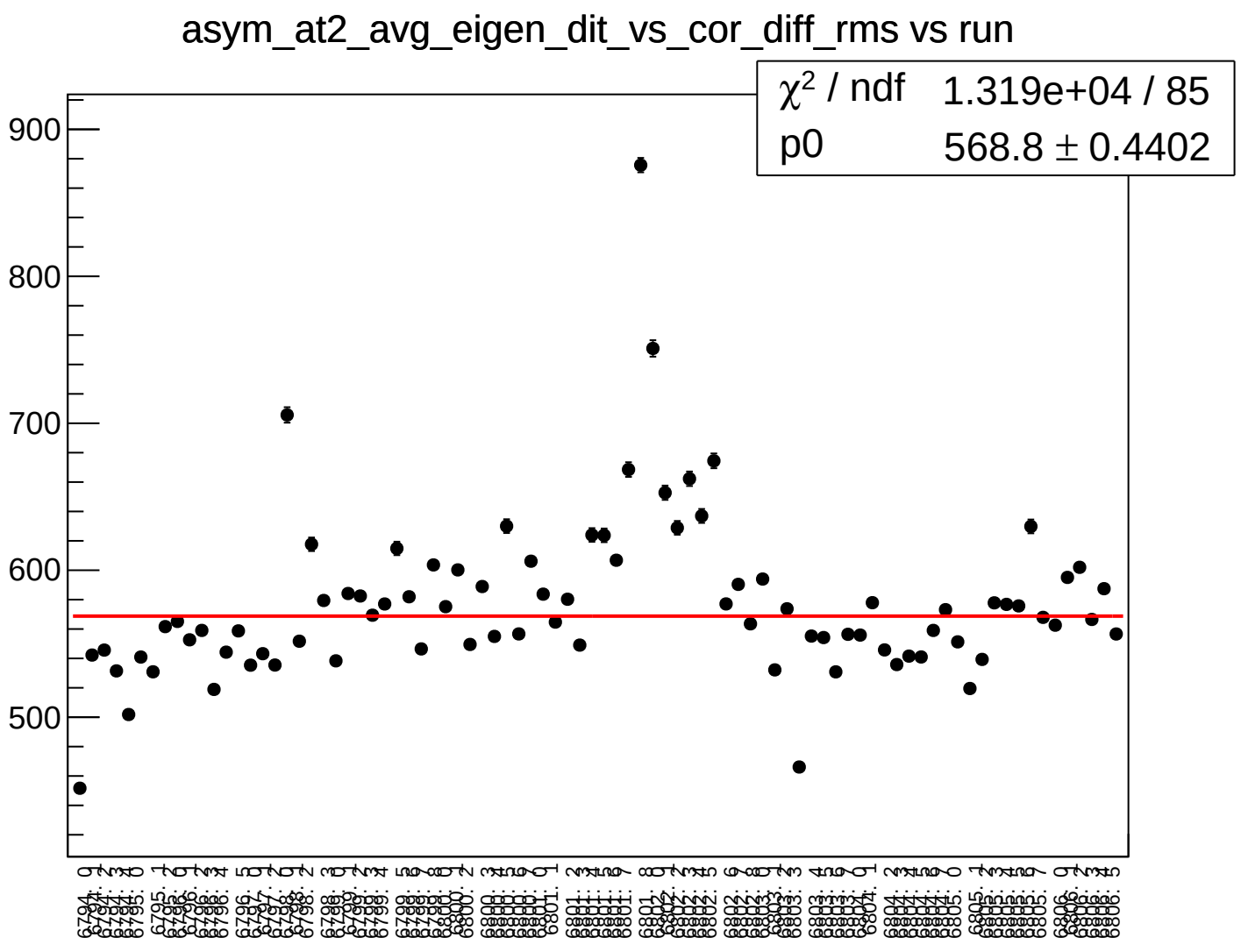

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.05 / 85
p0 2.207e−06 ± 1.153e−05
pull
Entries 86
Mean −59.16
Std Dev 0

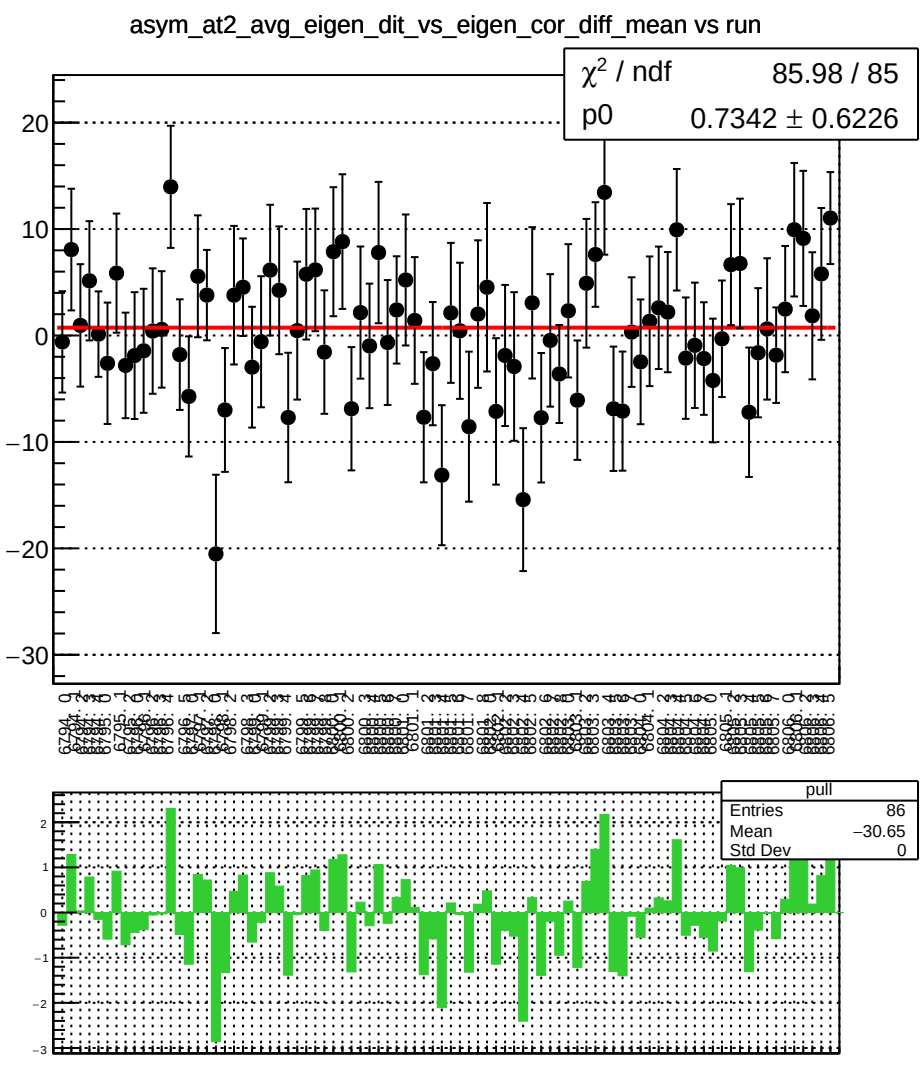

pull1D
Entries 86
Mean −0.01946
Std Dev 0.9825

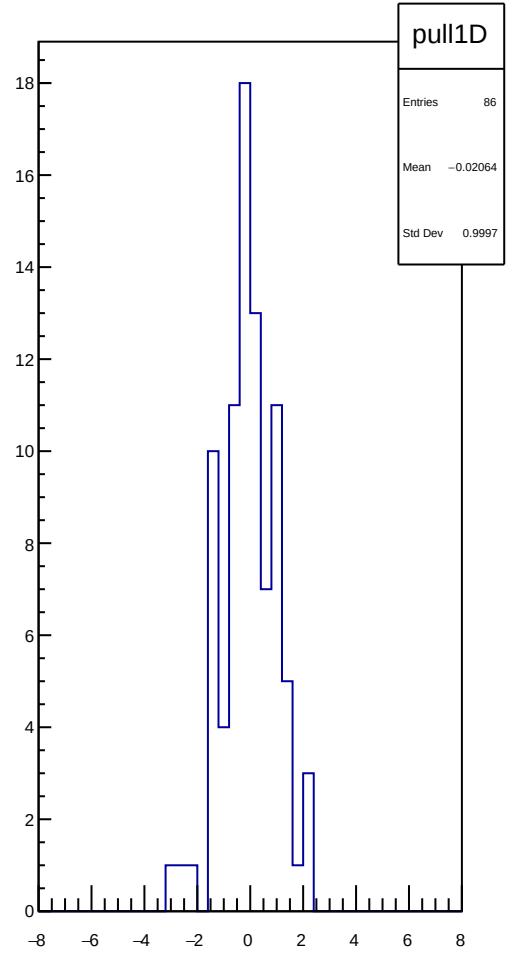

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9852 / 85
p0 0.01055 ± 8.156e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

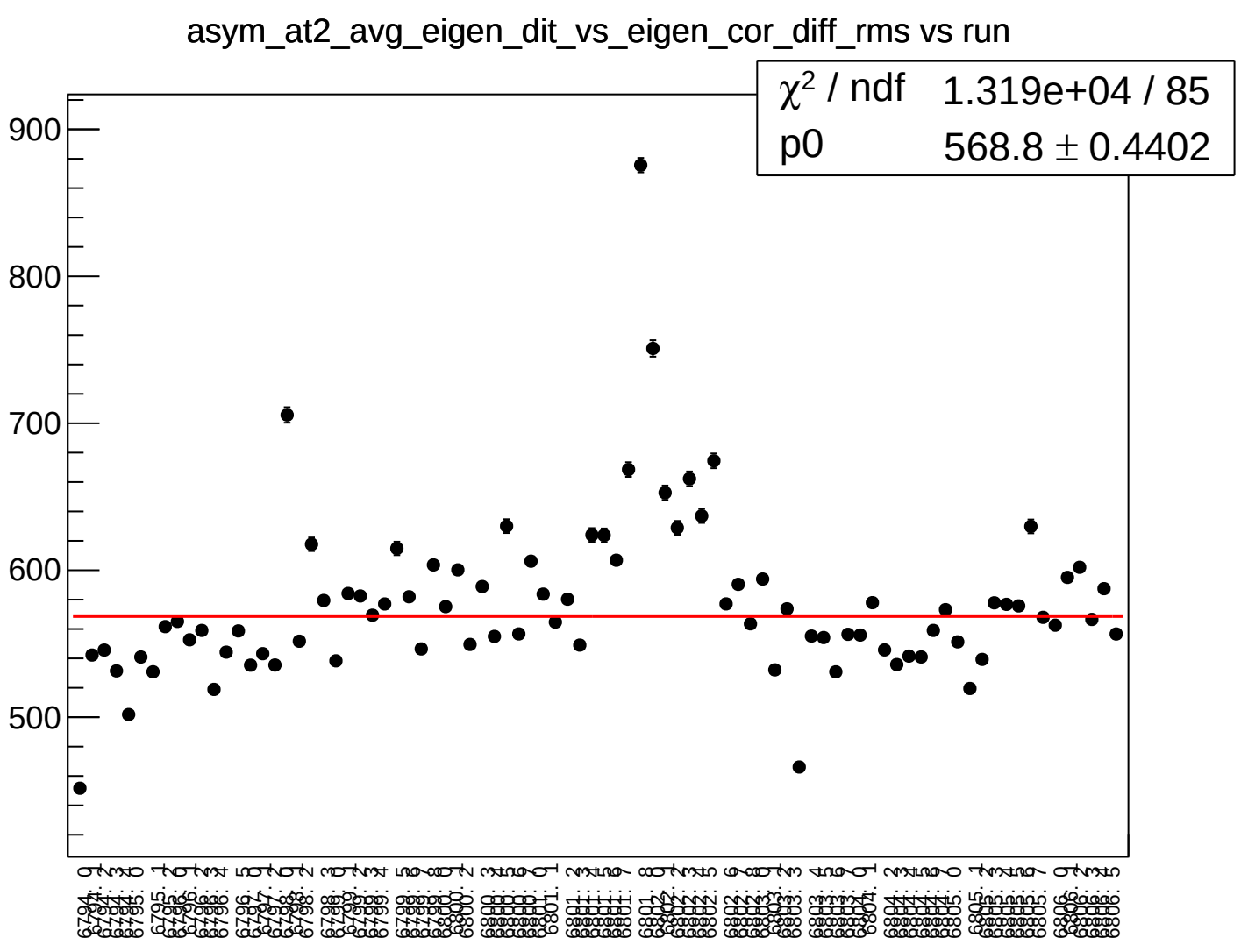

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 0.7342 ± 0.6226
pull
Entries 86
Mean −30.65
Std Dev 0

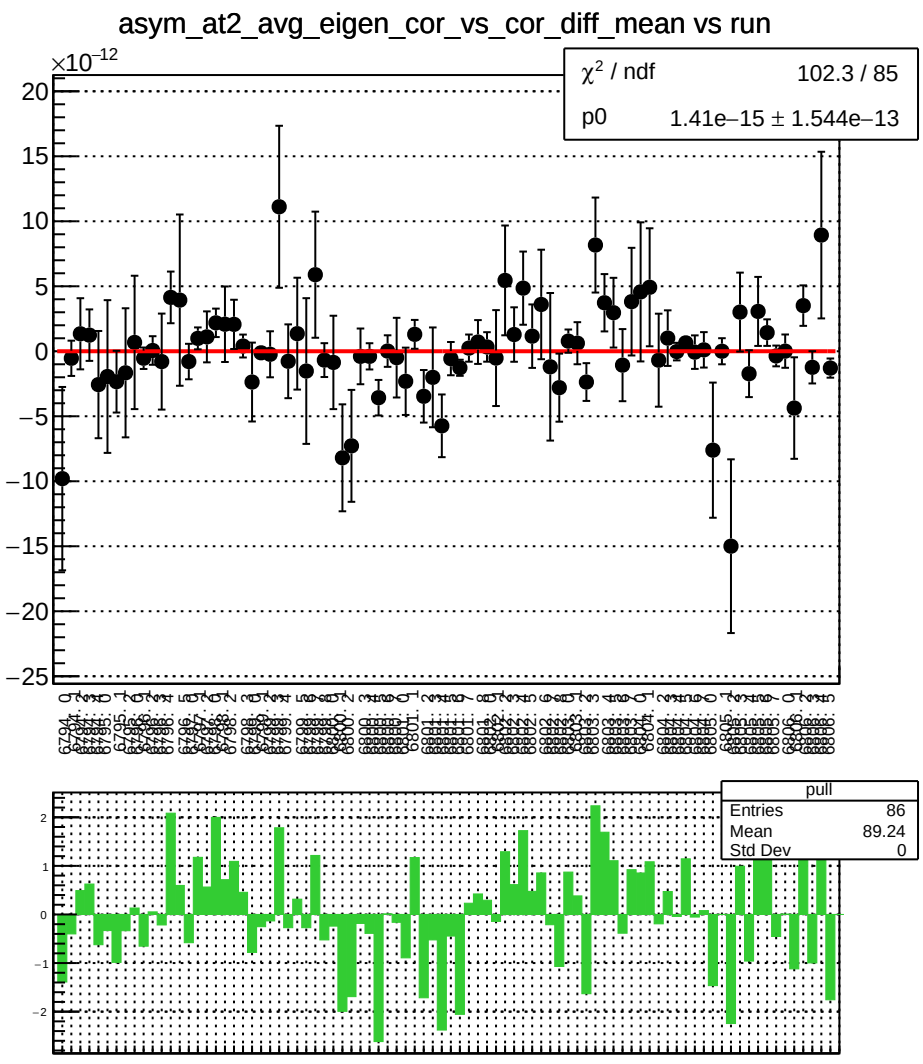

pull1D
Entries 86
Mean −0.02064
Std Dev 0.9997

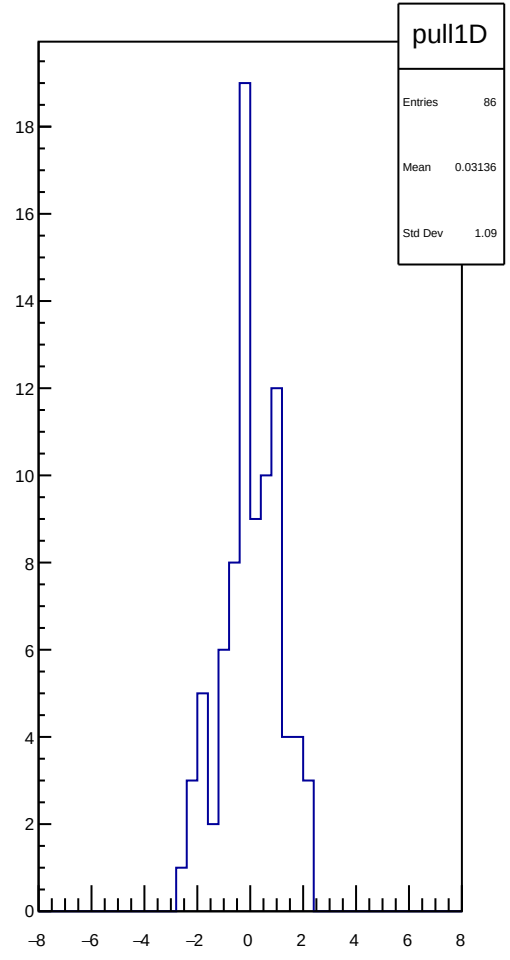

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 85
p0 568.8 ± 0.4402
900
800
700
600
500

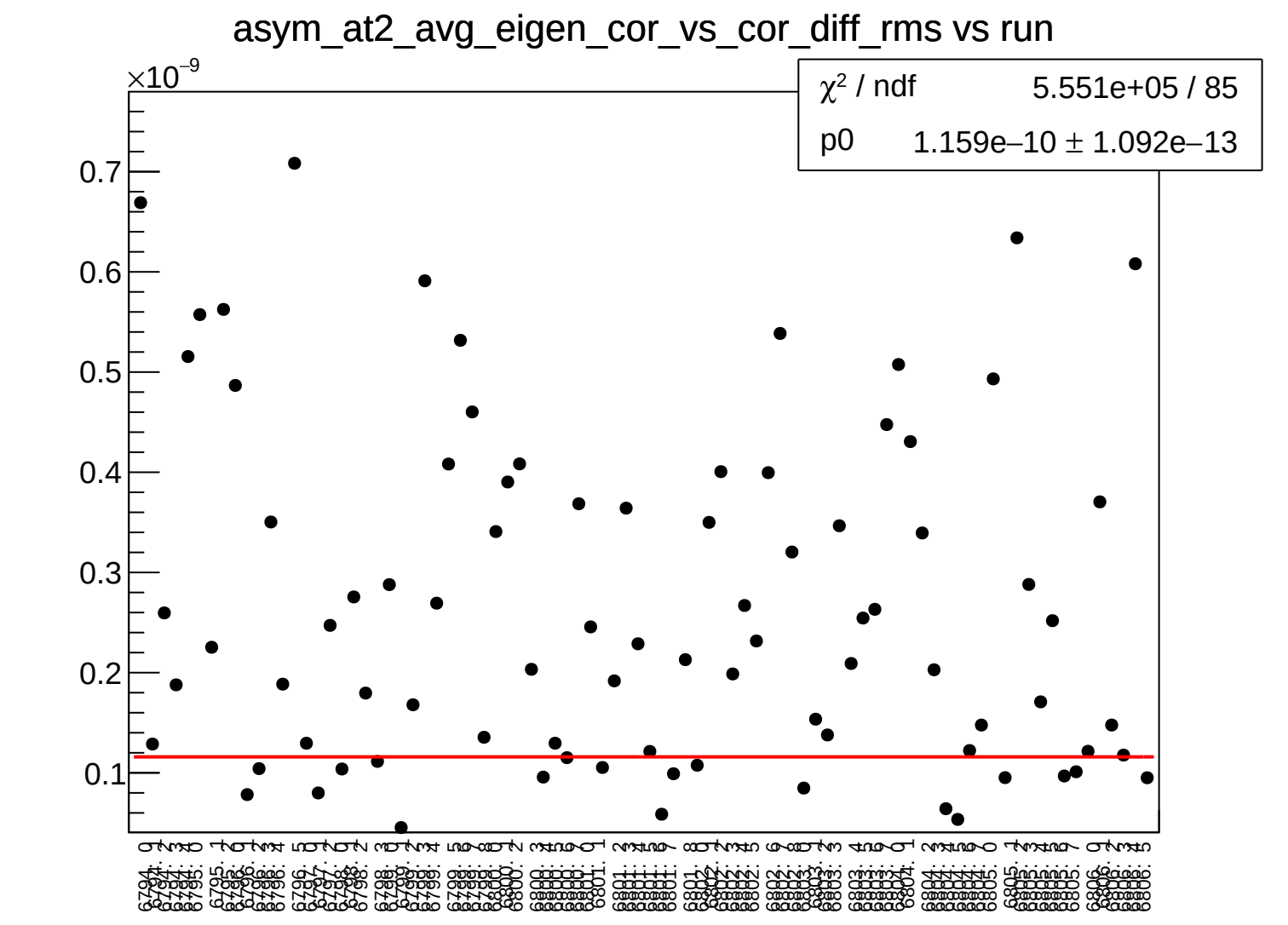

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 0.7342 ± 0.6226
pull
Entries 86
Mean −30.65
Std Dev 0

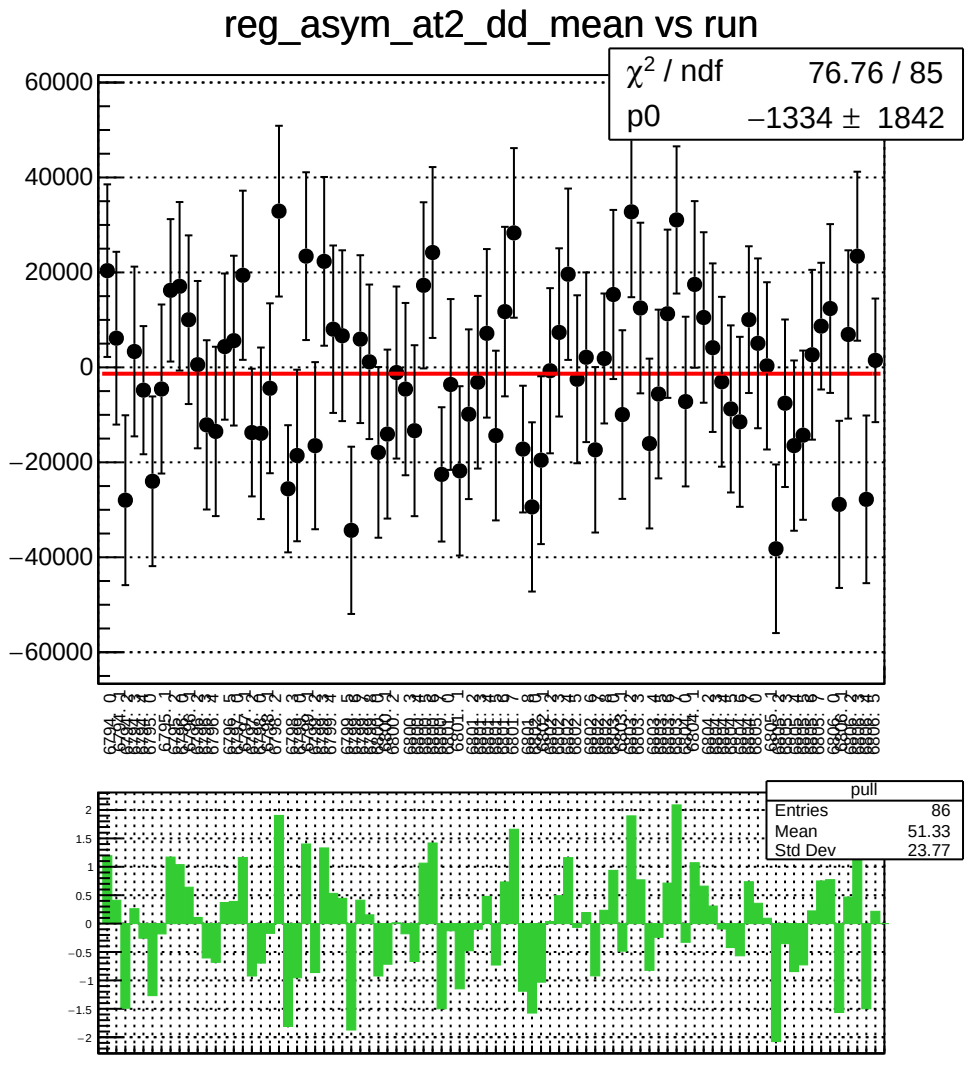

pull1D
Entries 86
Mean −0.02064
Std Dev 0.9997

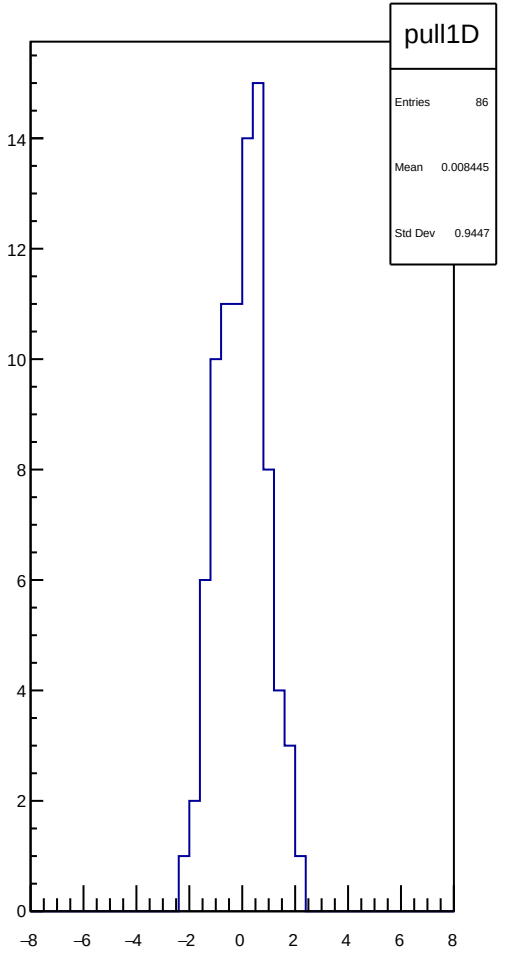

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.319e+04 / 85
p0 568.8 ± 0.4402
900
800
700
600
500

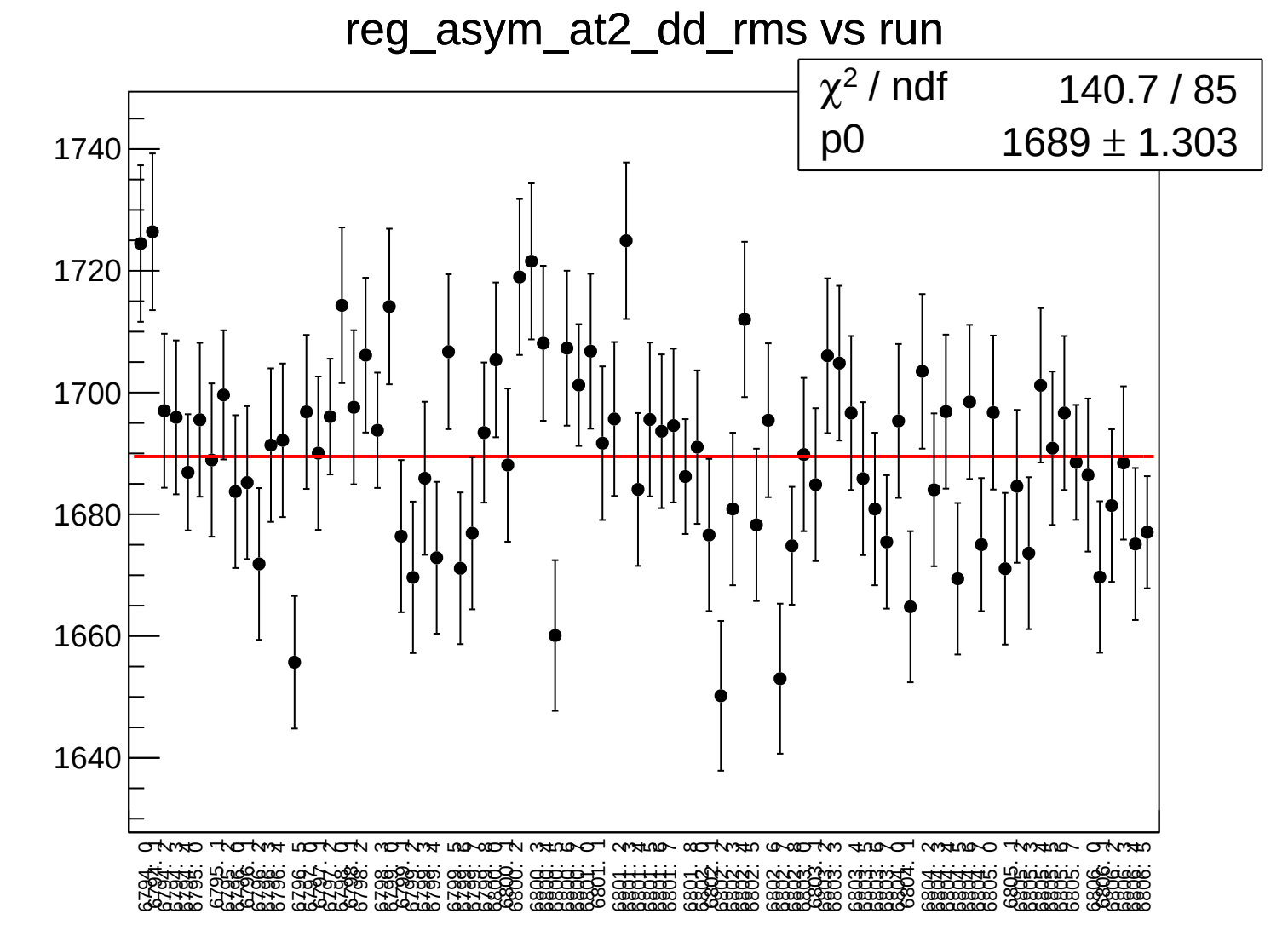

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.3 / 85
p0 1.41e−15 ± 1.544e−13
pull
Entries 86
Mean 89.24
Std Dev 0

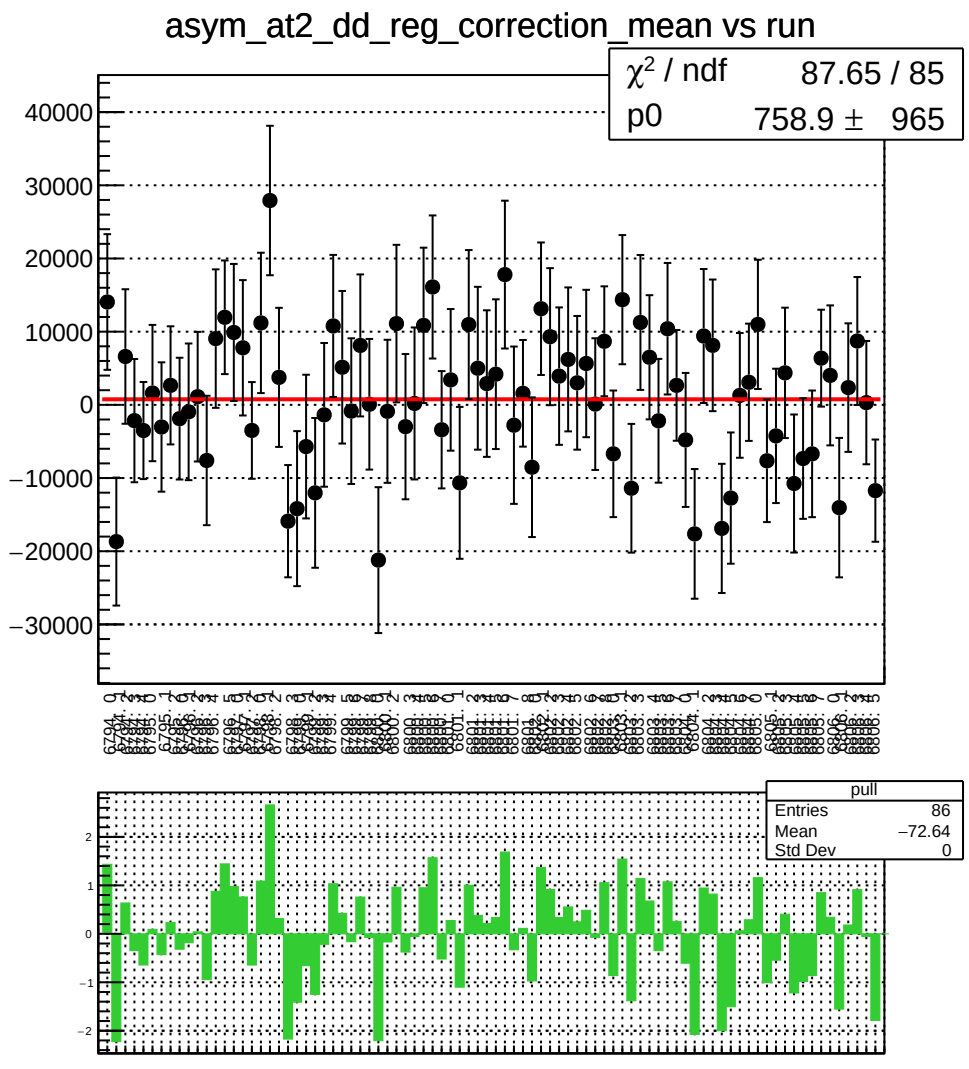

pull1D
Entries 86
Mean 0.03136
Std Dev 1.09

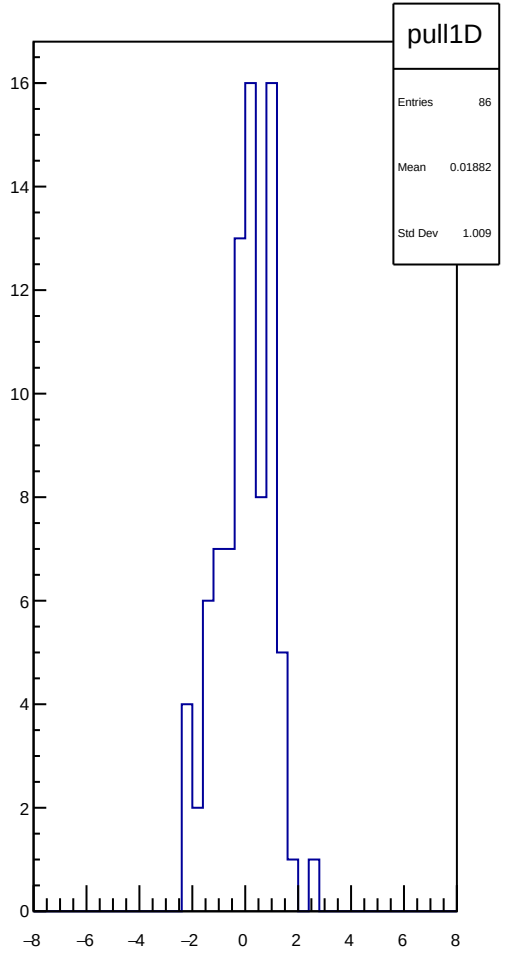

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.551e+05 / 85
p0 1.159e−10 ± 1.092e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

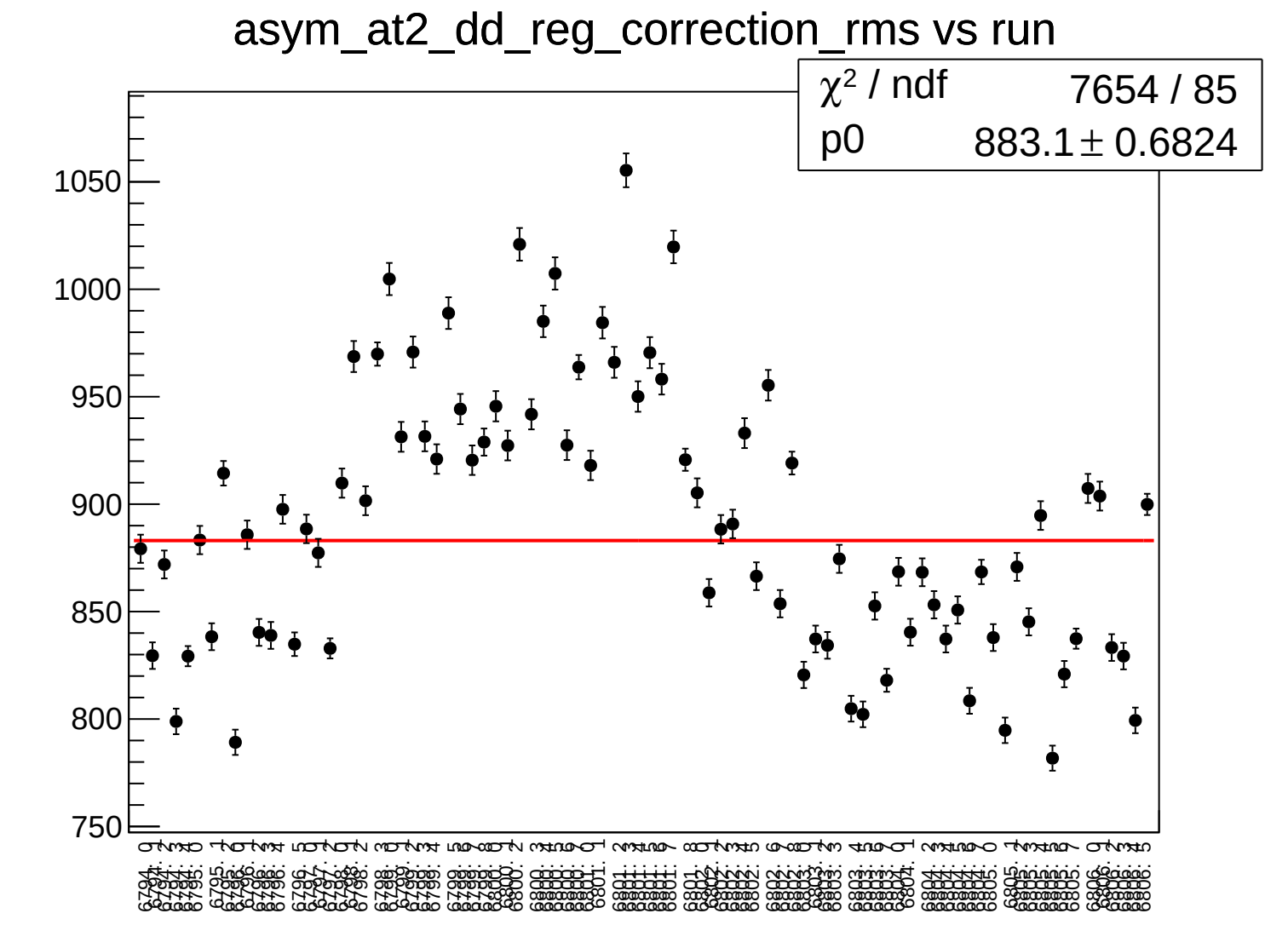

reg_asym_at2_dd_mean vs run
χ² / ndf 76.76 / 85
p0 −1334 ± 1842
pull
Entries 86
Mean 51.33
Std Dev 23.77

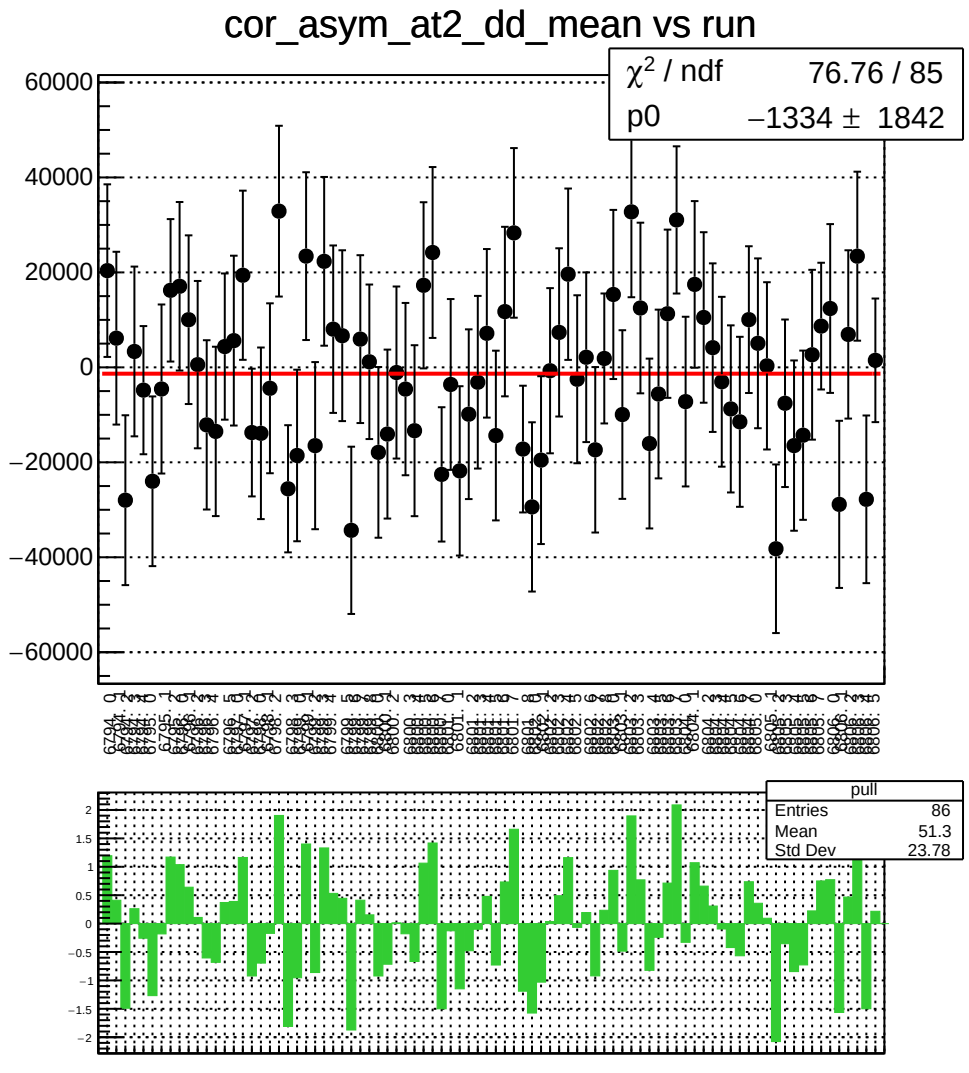

pull1D
Entries 86
Mean 0.008445
Std Dev 0.9447

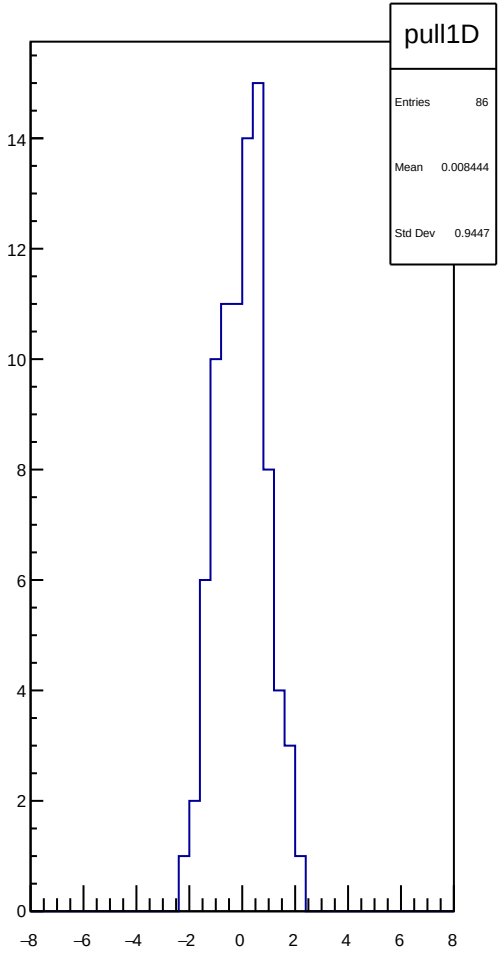

reg_asym_at2_dd_rms vs run
χ² / ndf 140.7 / 85
p0 1689 ± 1.303
1740
1720
1700
1680
1660
1640

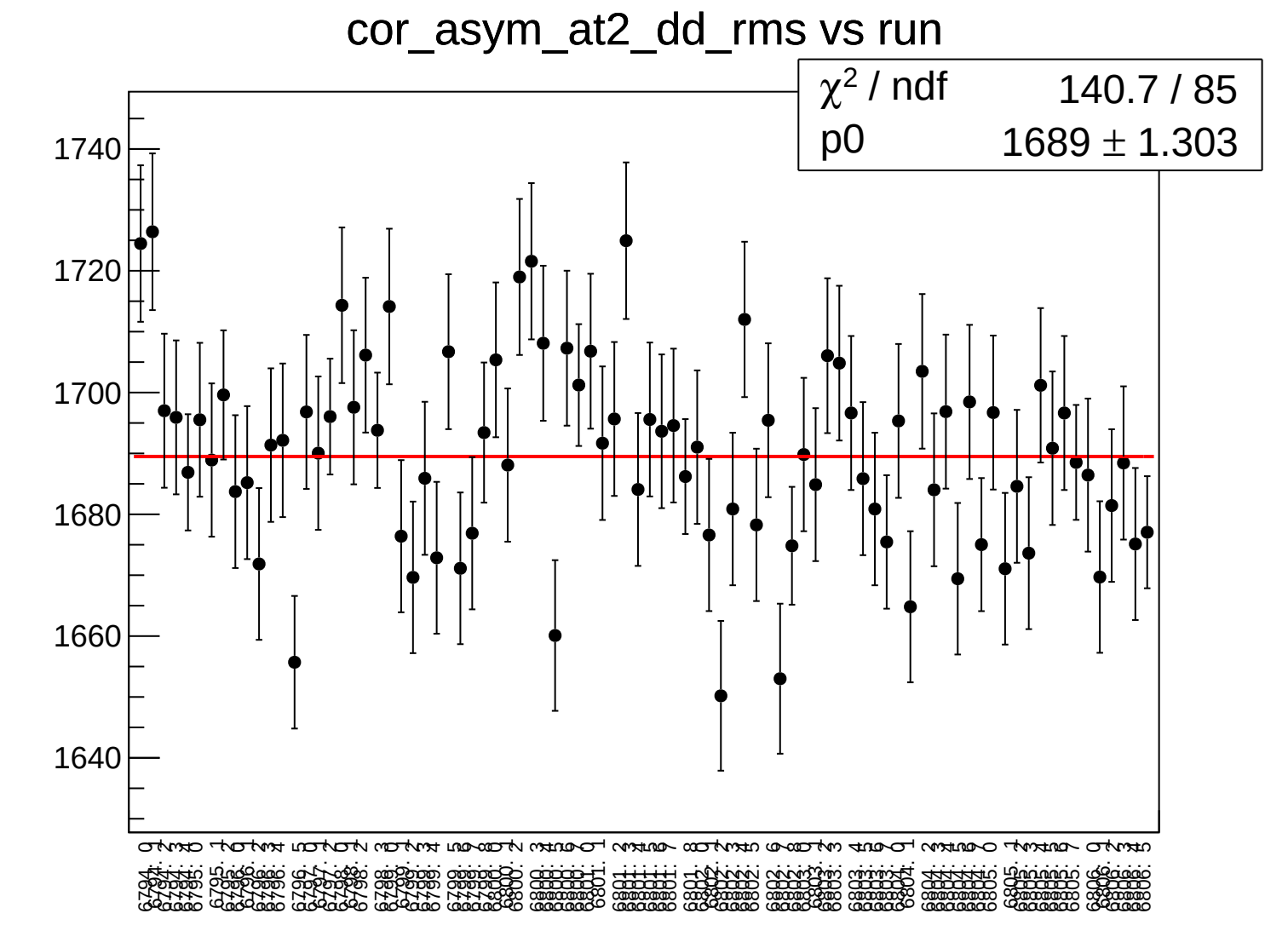

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 87.65 / 85
p0 758.9 ± 965
pull
Entries 86
Mean −72.64
Std Dev 0

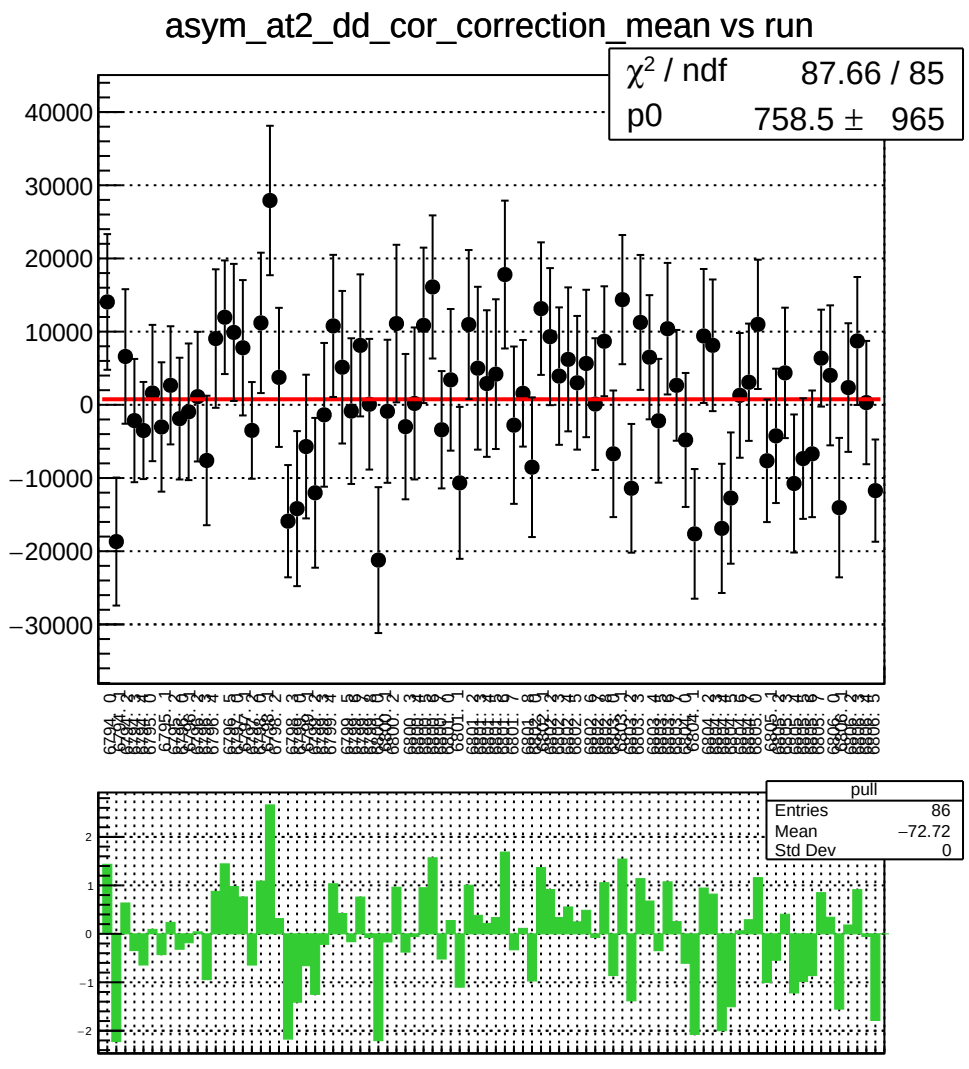

pull1D
Entries 86
Mean 0.01882
Std Dev 1.009

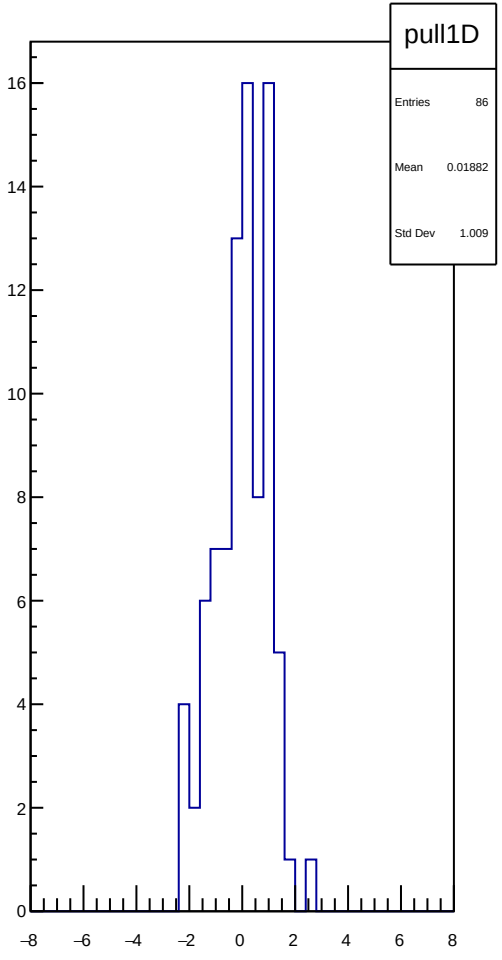

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 7654 / 85
p0 883.1 ± 0.6824
1050
1000
950
900
850
800
750

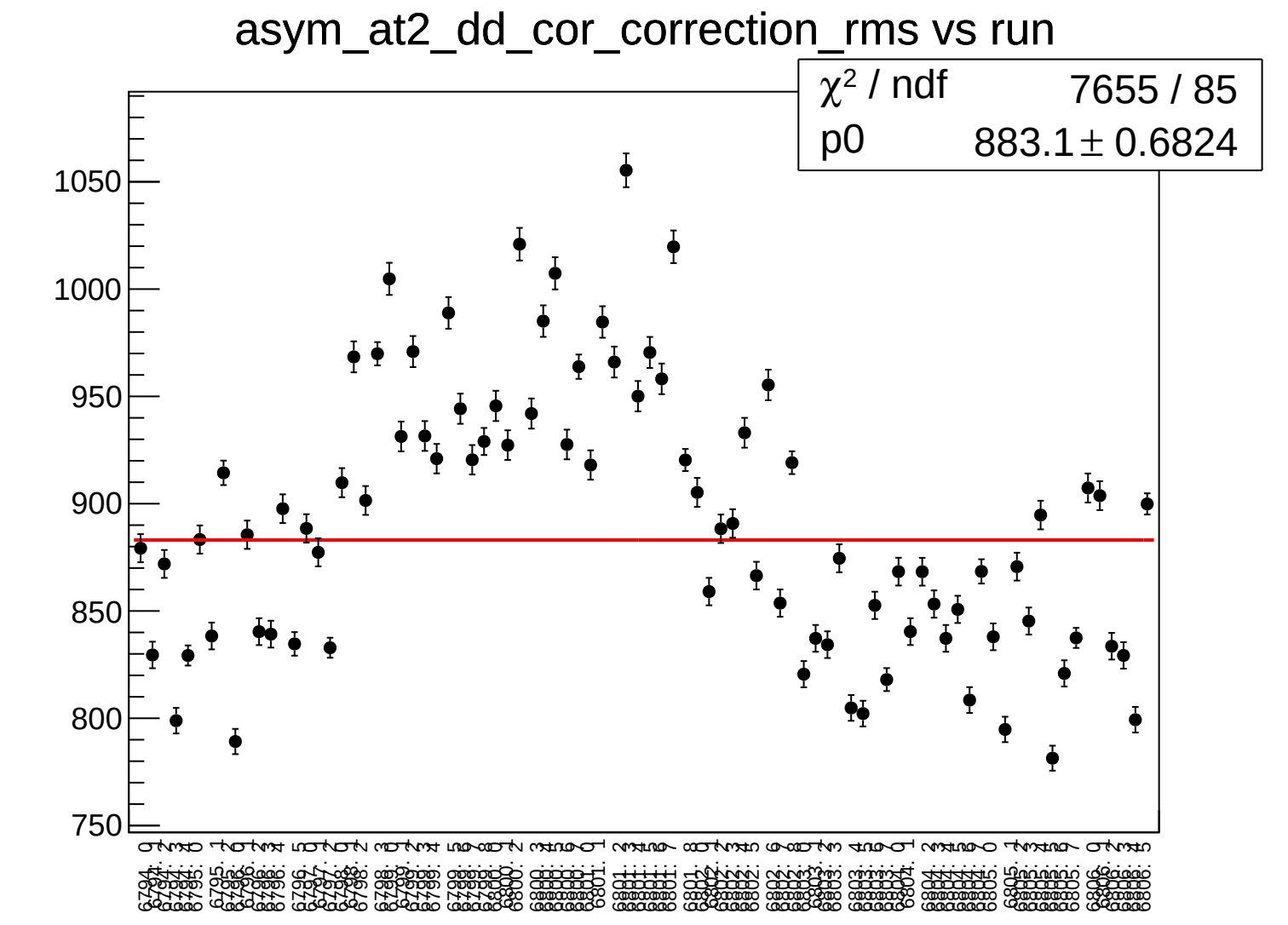

cor_asym_at2_dd_mean vs run
χ² / ndf 76.76 / 85
p0 −1334 ± 1842
pull
Entries 86
Mean 51.3
Std Dev 23.78

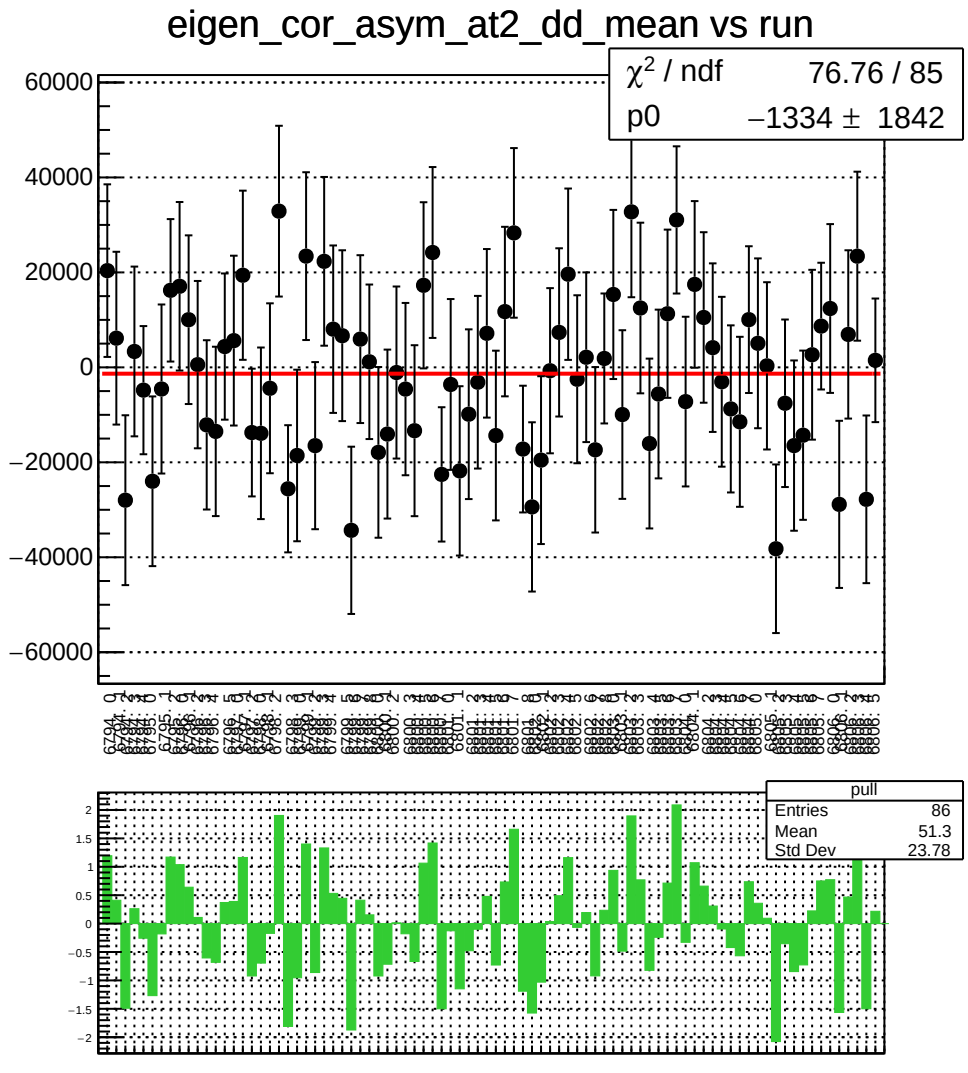

pull1D
Entries 86
Mean 0.008444
Std Dev 0.9447

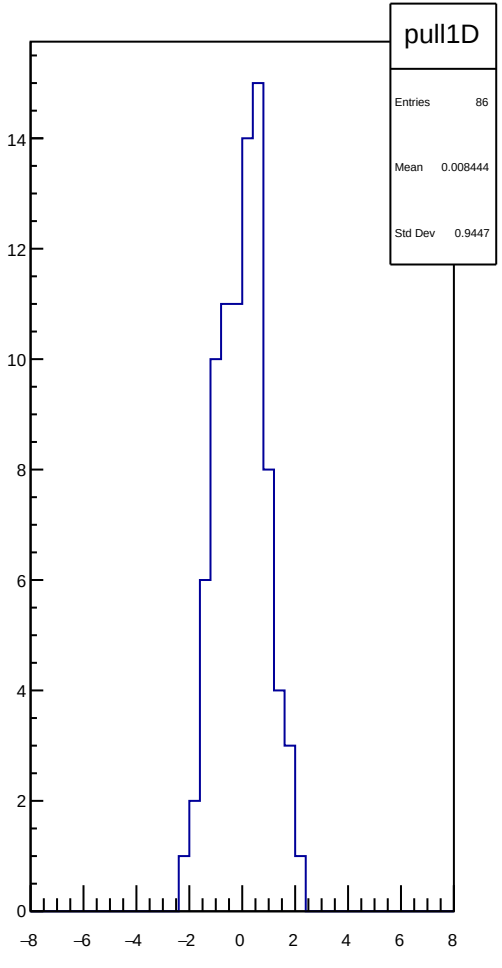

cor_asym_at2_dd_rms vs run
χ² / ndf 140.7 / 85
p0 1689 ± 1.303
1740
1720
1700
1680
1660
1640

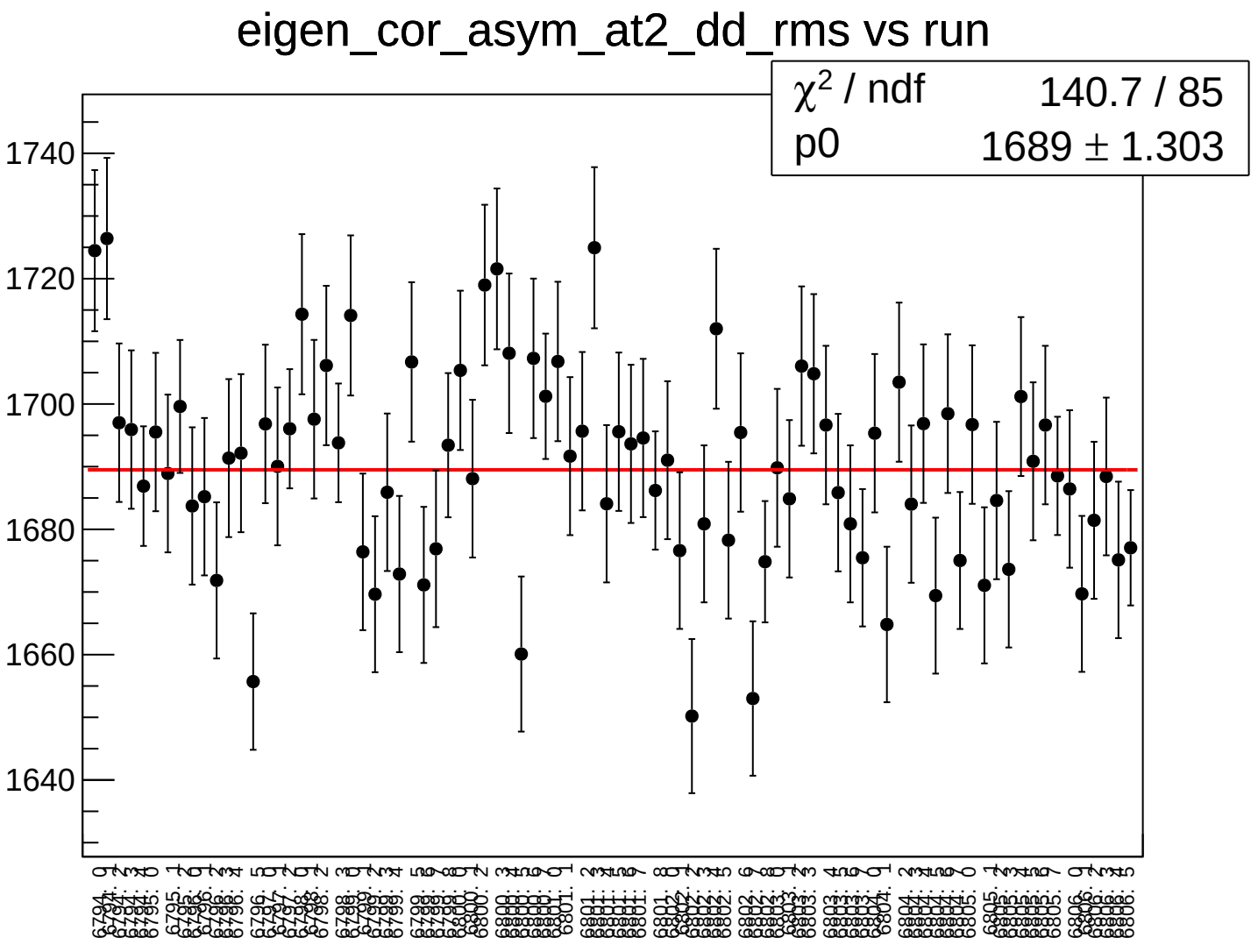

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 87.66 / 85
p0 758.5 ± 965
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −72.72
Std Dev 0
2
1
0
−1
−2

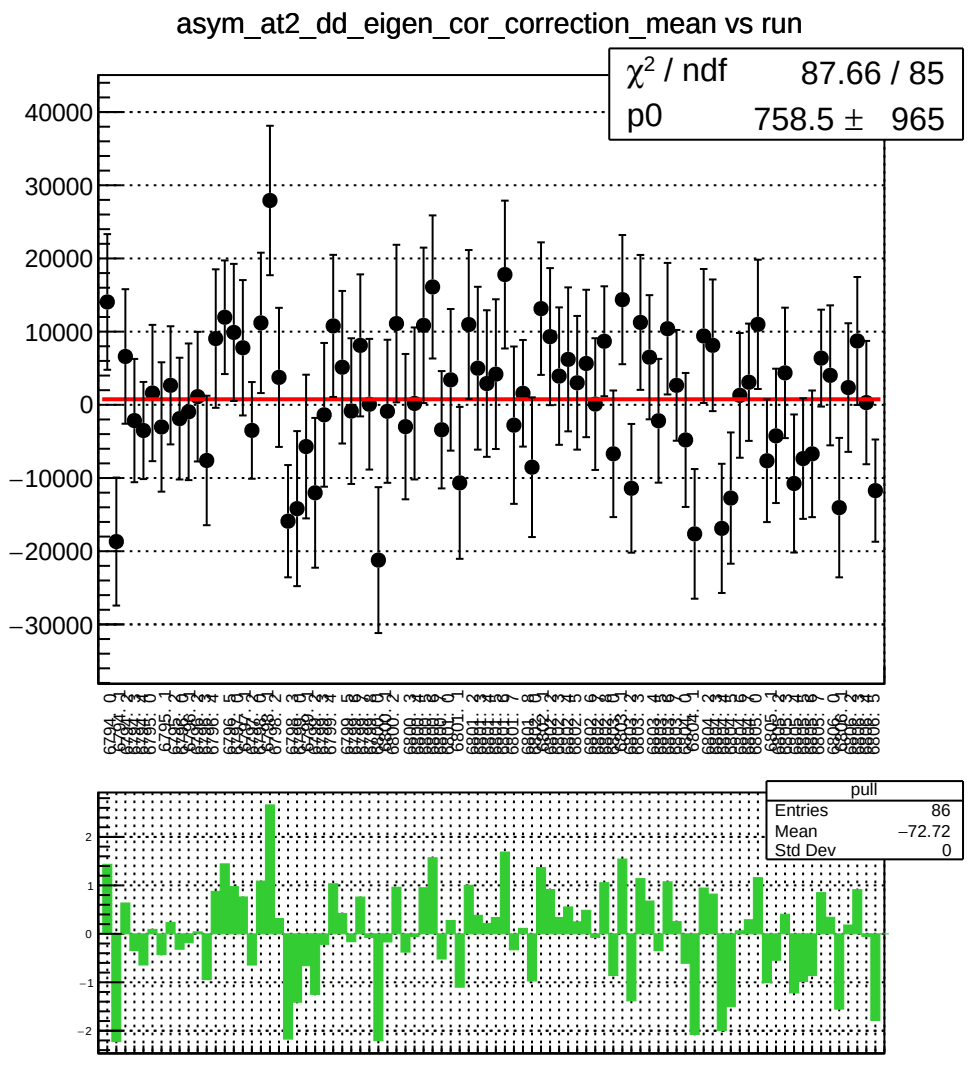

pull1D
Entries 86
Mean 0.01882
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

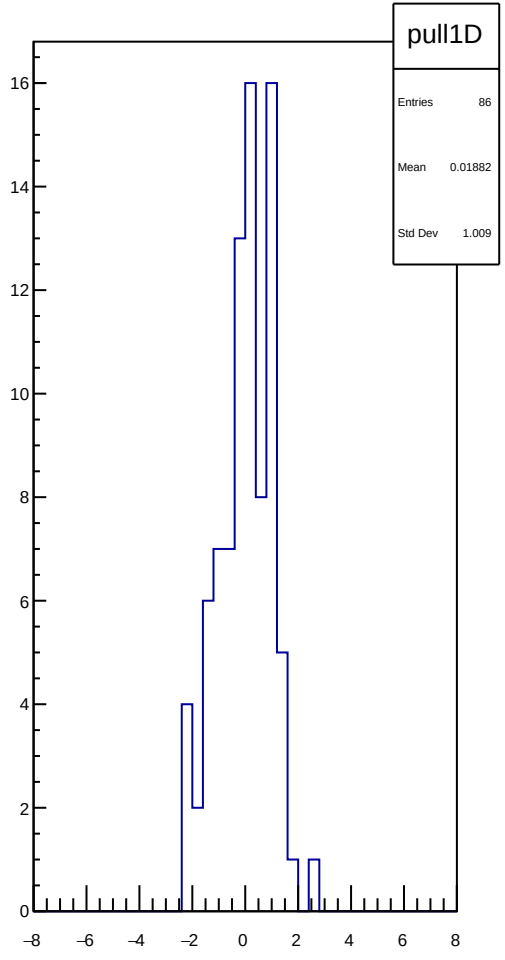

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 7655 / 85
p0 883.1 ± 0.6824
1050
1000
950
900
850
800
750

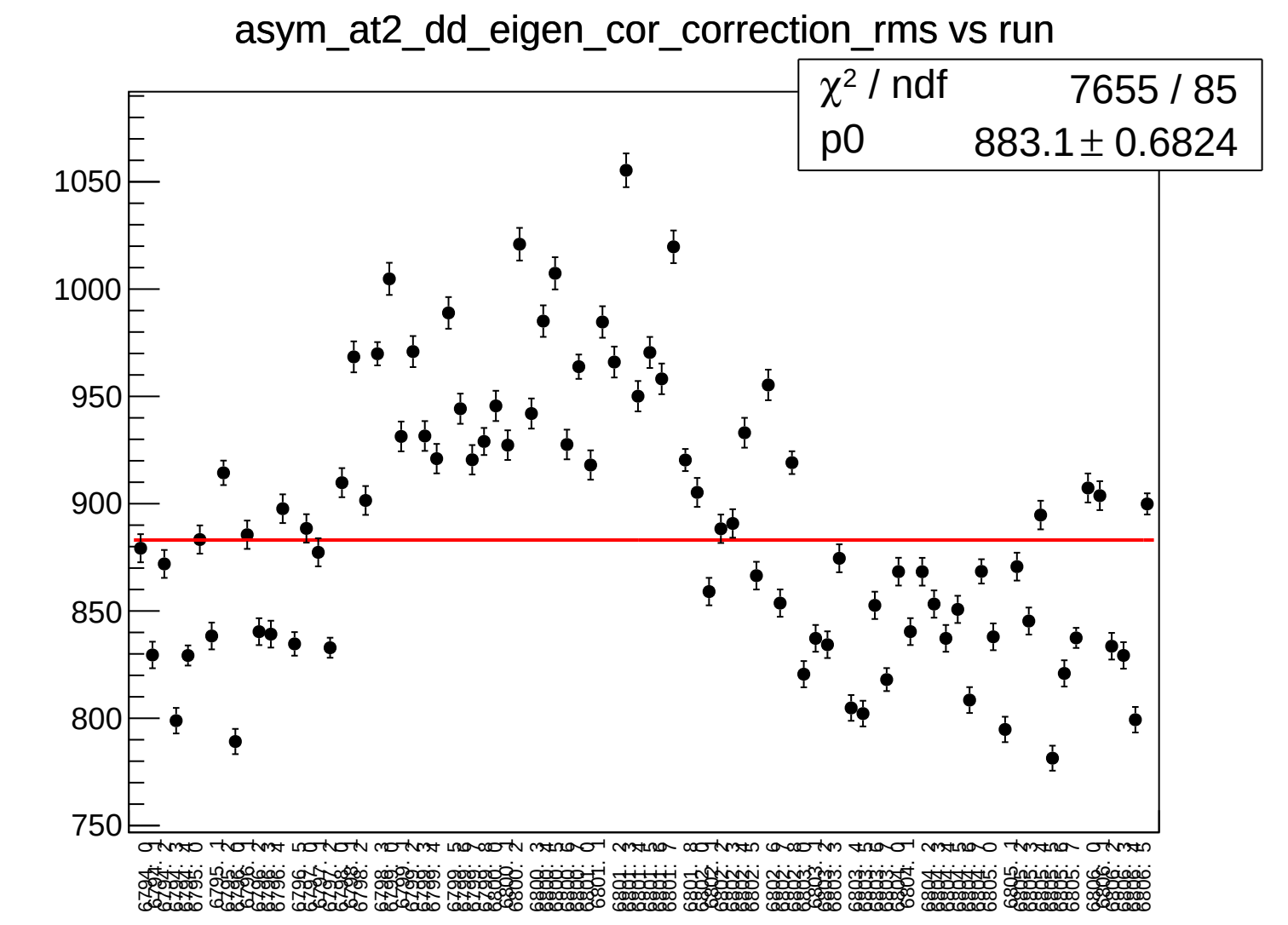

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 76.76 / 85
p0 −1334 ± 1842
pull
Entries 86
Mean 51.3
Std Dev 23.78

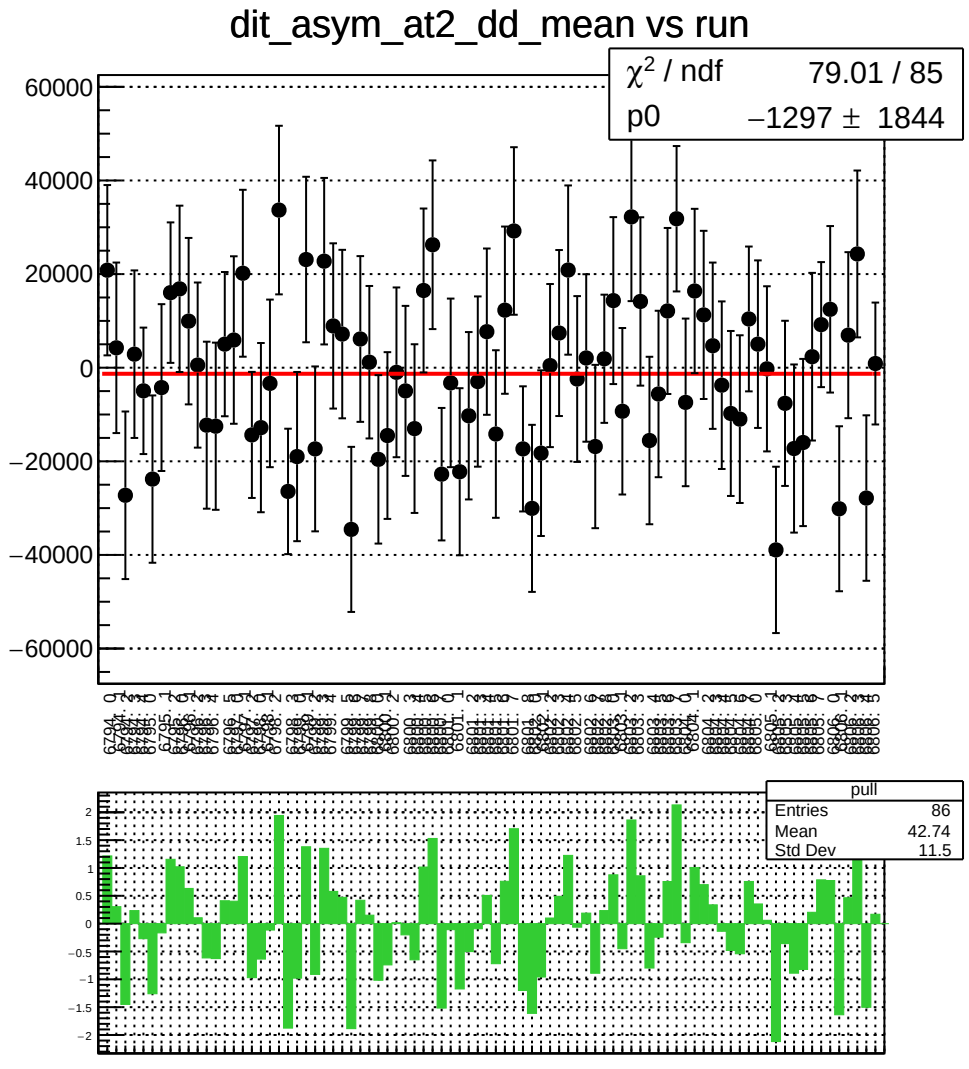

pull1D
Entries 86
Mean 0.008444
Std Dev 0.9447

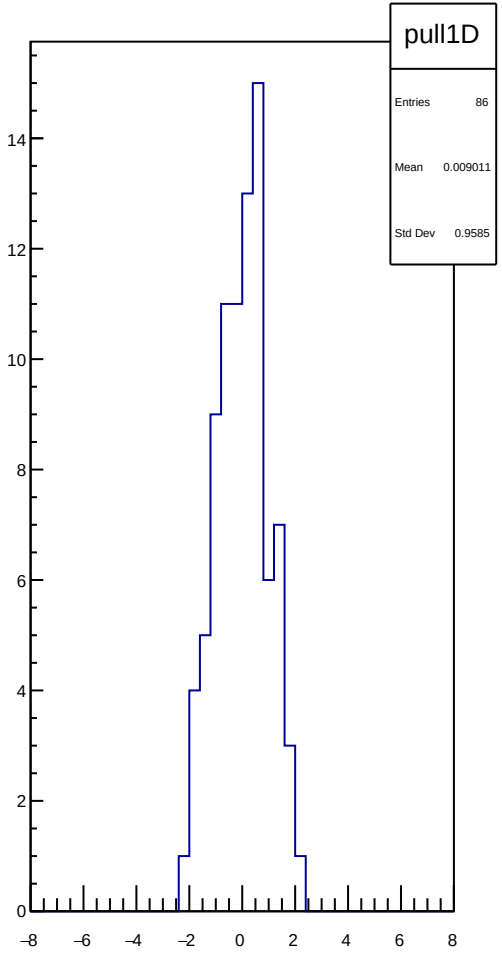

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 140.7 / 85
p0 1689 ± 1.303
1740
1720
1700
1680
1660
1640

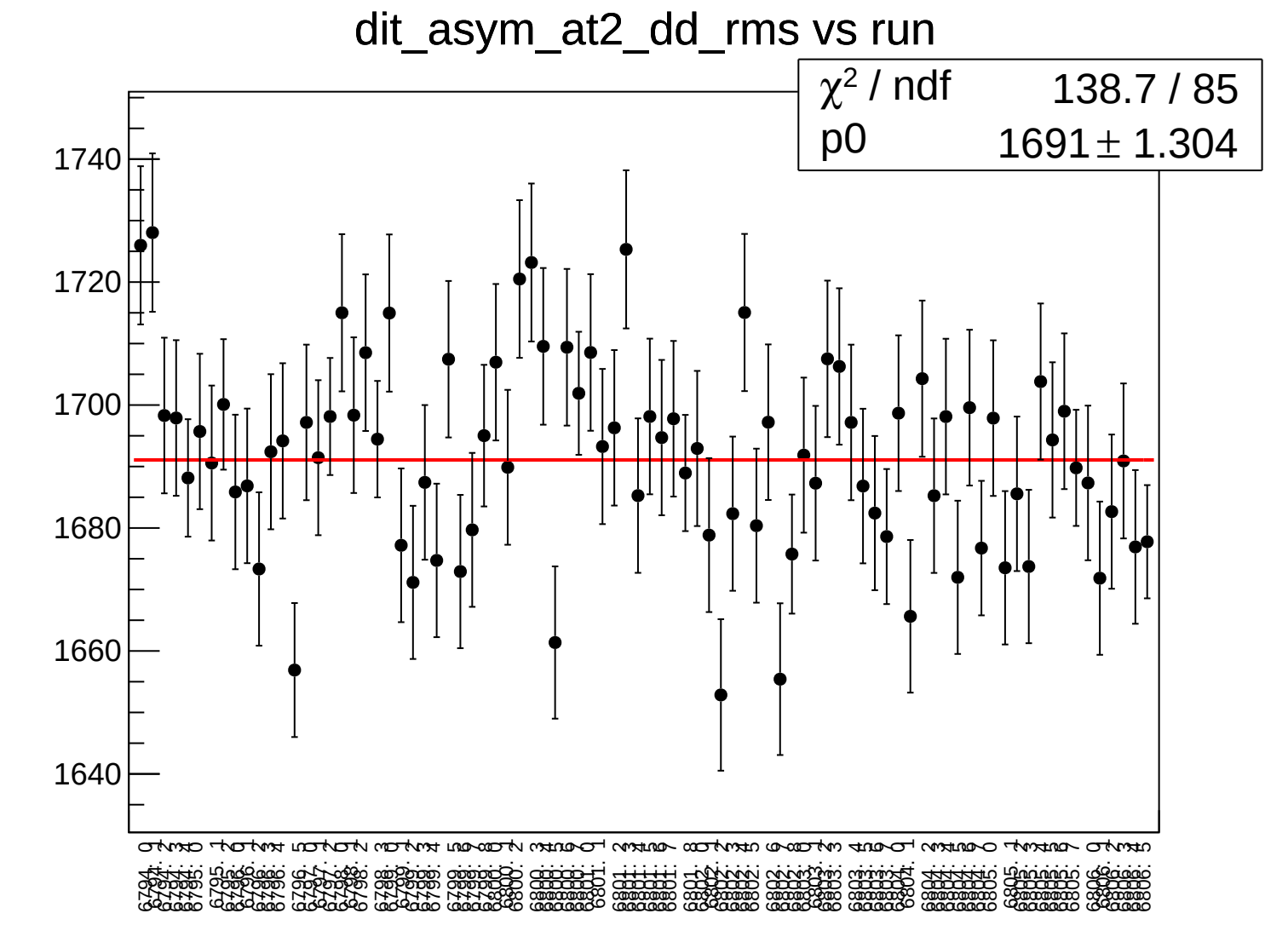

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.66 / 85
p0 758.5 ± 965
pull
Entries 86
Mean −72.72
Std Dev 0

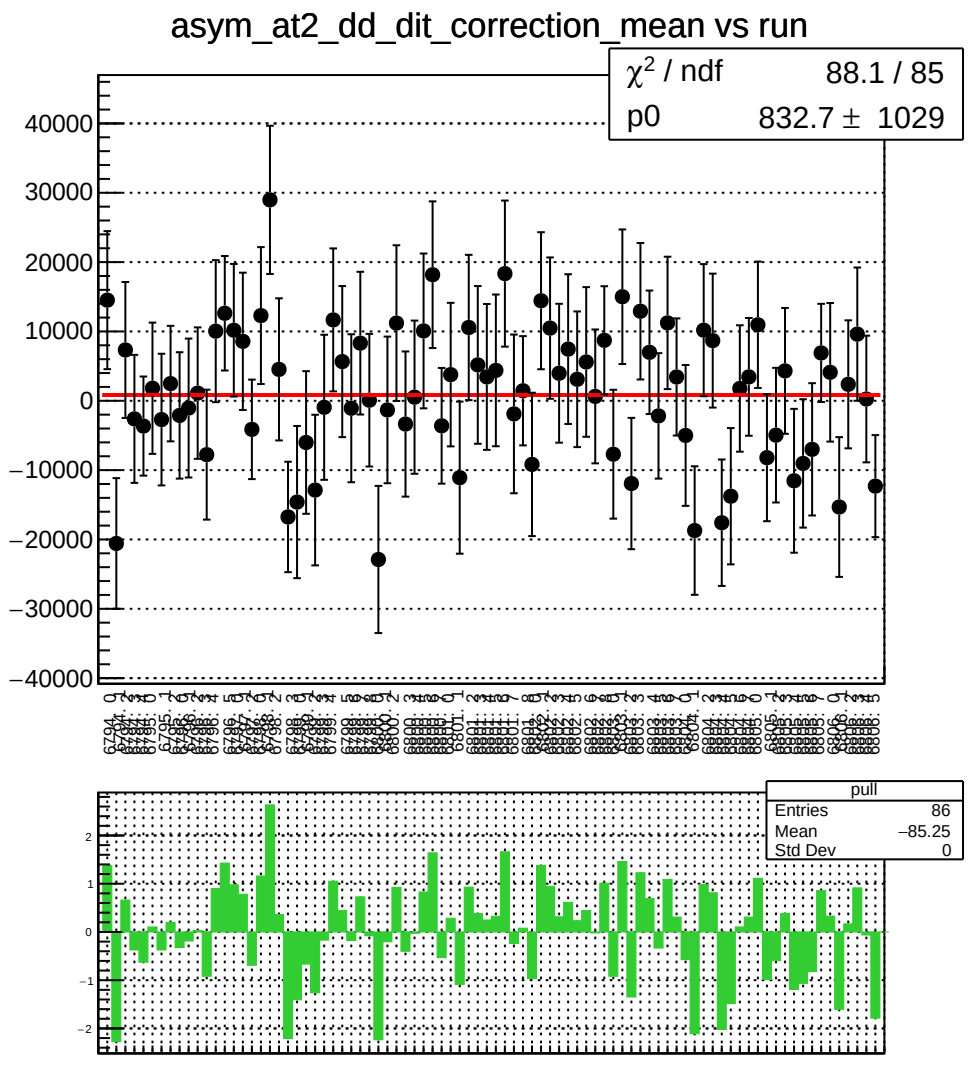

pull1D
Entries 86
Mean 0.01882
Std Dev 1.009

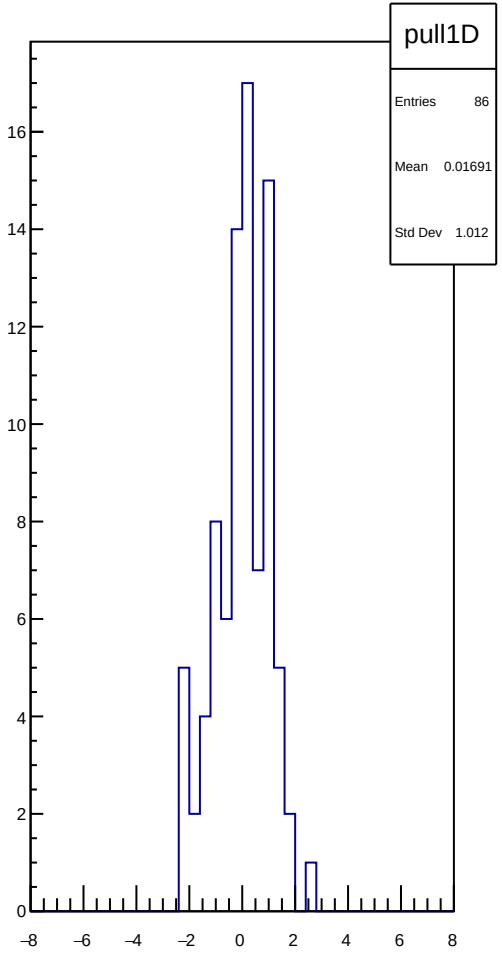

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7655 / 85
p0 883.1 ± 0.6824
1050
1000
950
900
850
800
750

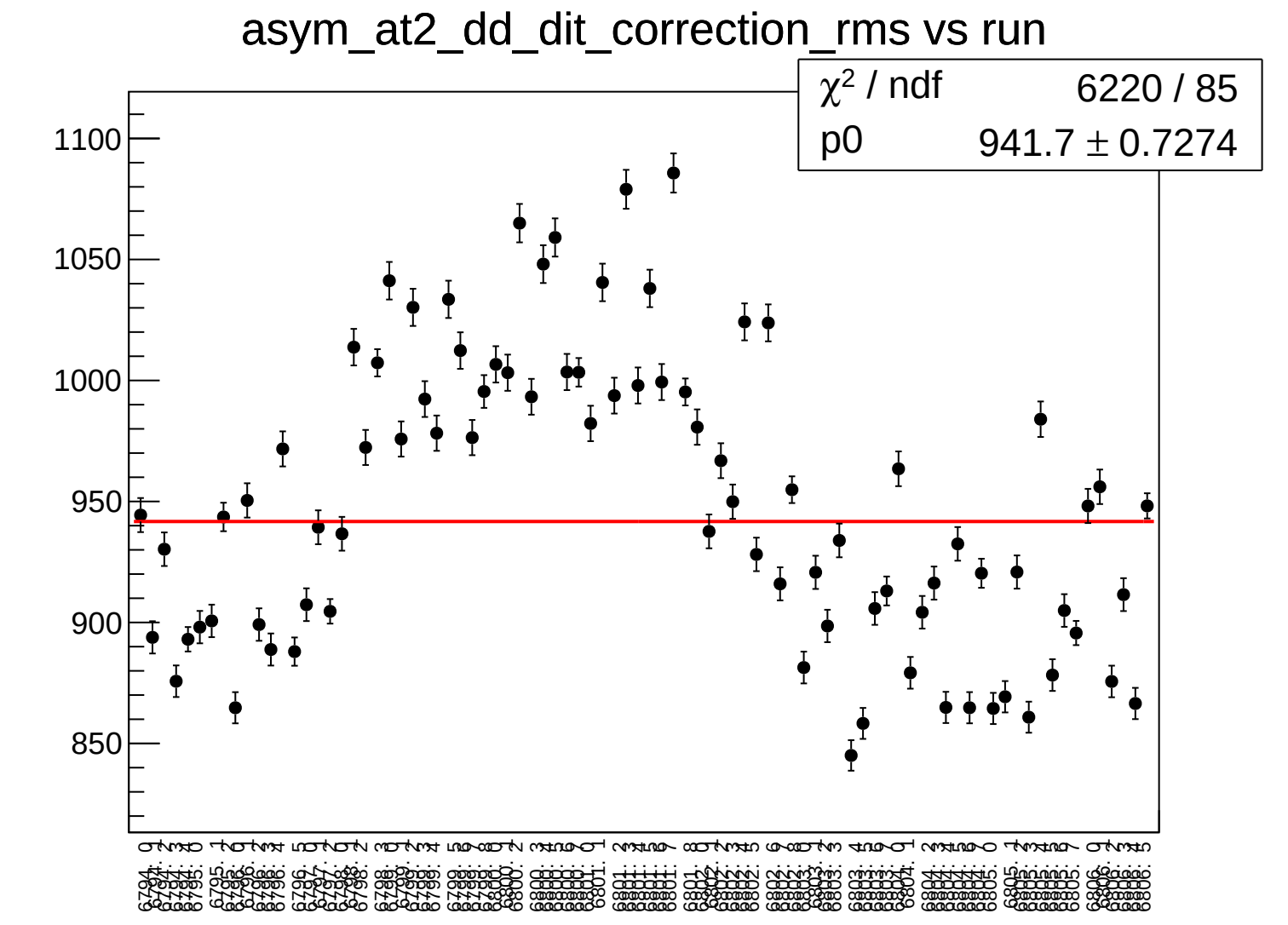

dit_asym_at2_dd_mean vs run
χ² / ndf 79.01 / 85
p0 −1297 ± 1844
pull
Entries 86
Mean 42.74
Std Dev 11.5

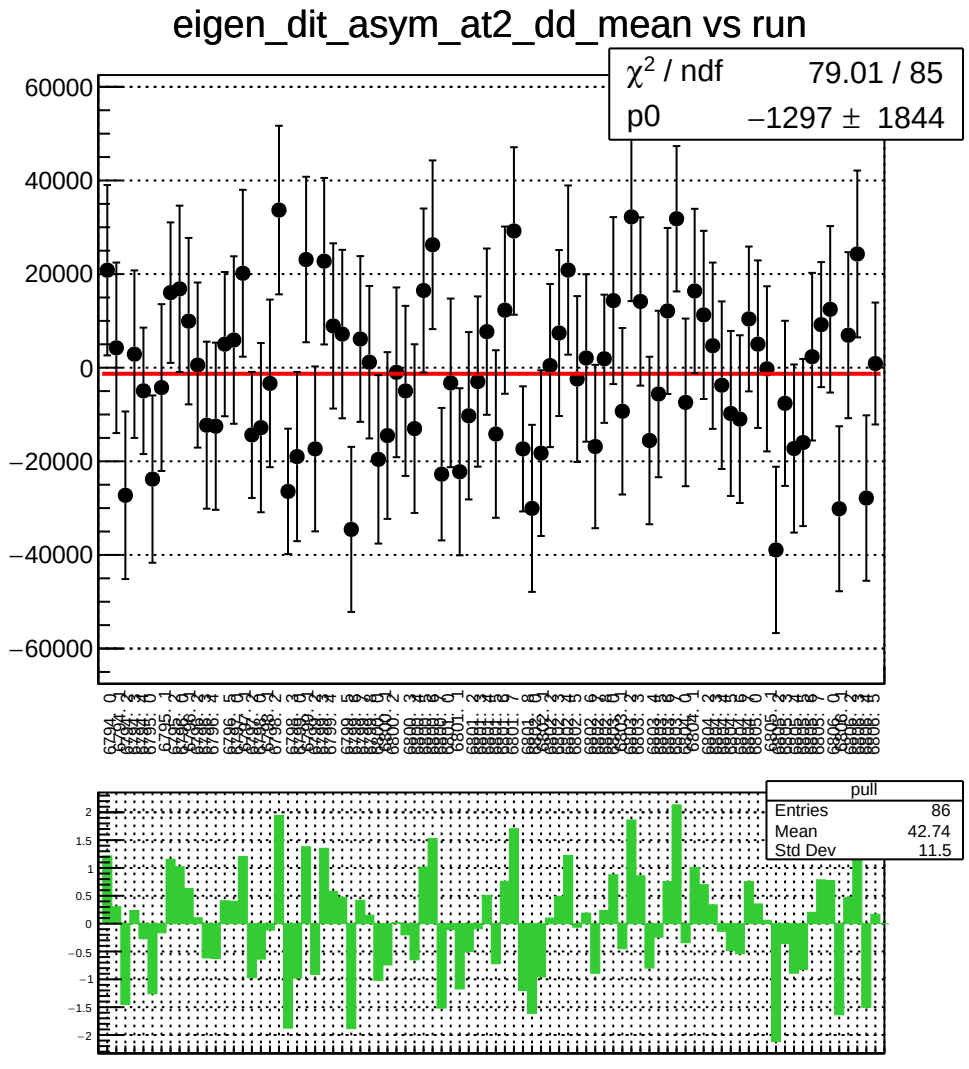

pull1D
Entries 86
Mean 0.009011
Std Dev 0.9585

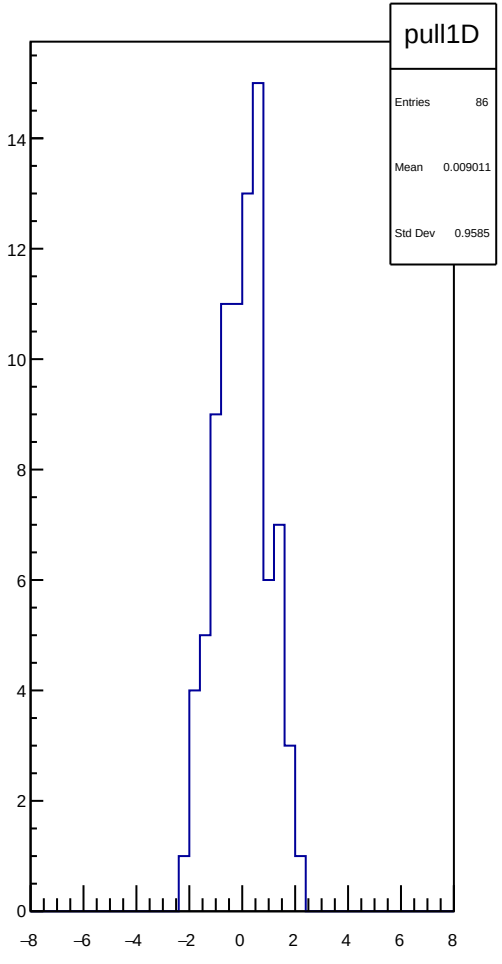

dit_asym_at2_dd_rms vs run
χ² / ndf 138.7 / 85
p0 1691 ± 1.304
1740
1720
1700
1680
1660
1640

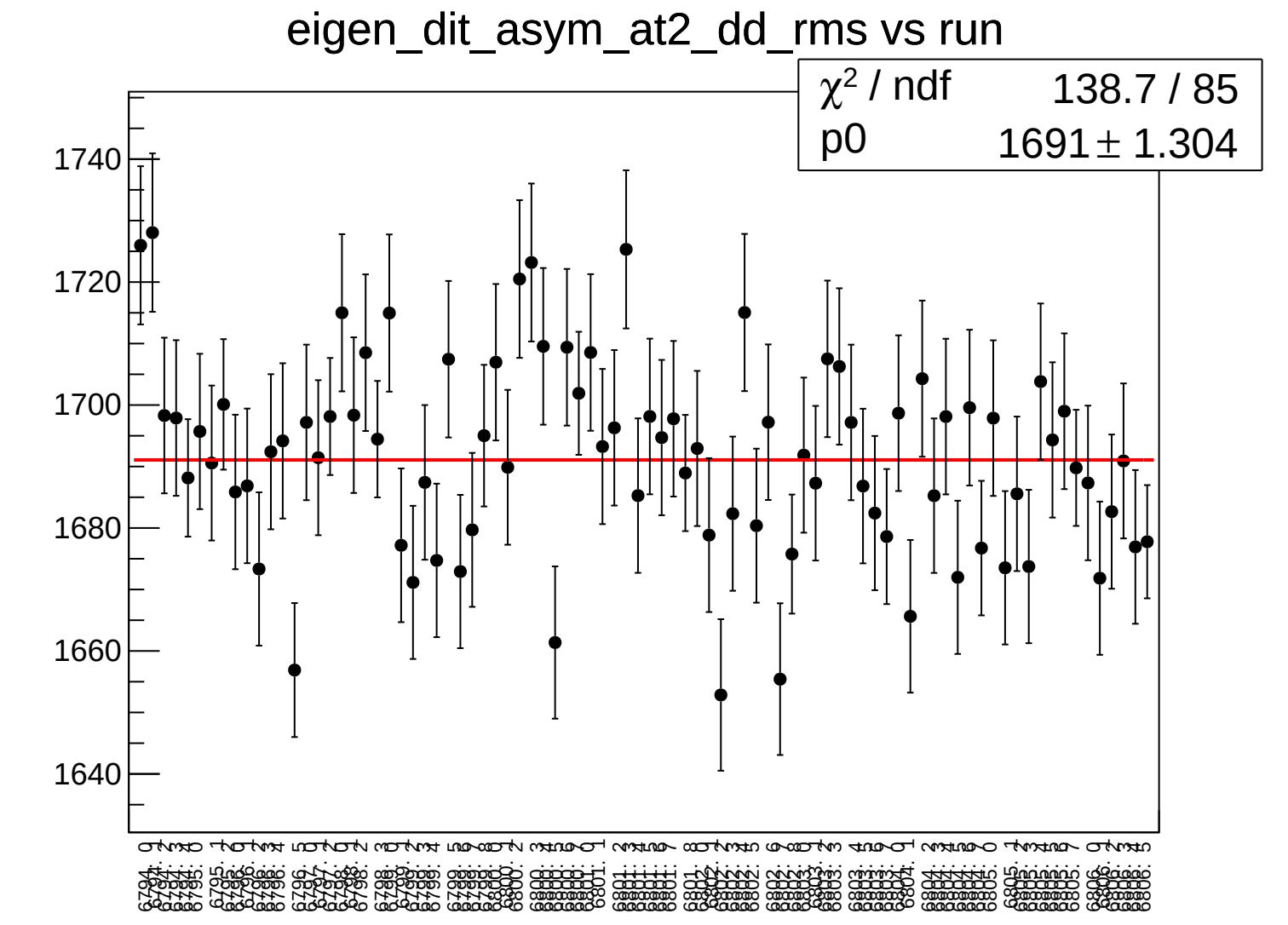

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 88.1 / 85
p0 832.7 ± 1029
pull
Entries 86
Mean −85.25
Std Dev 0

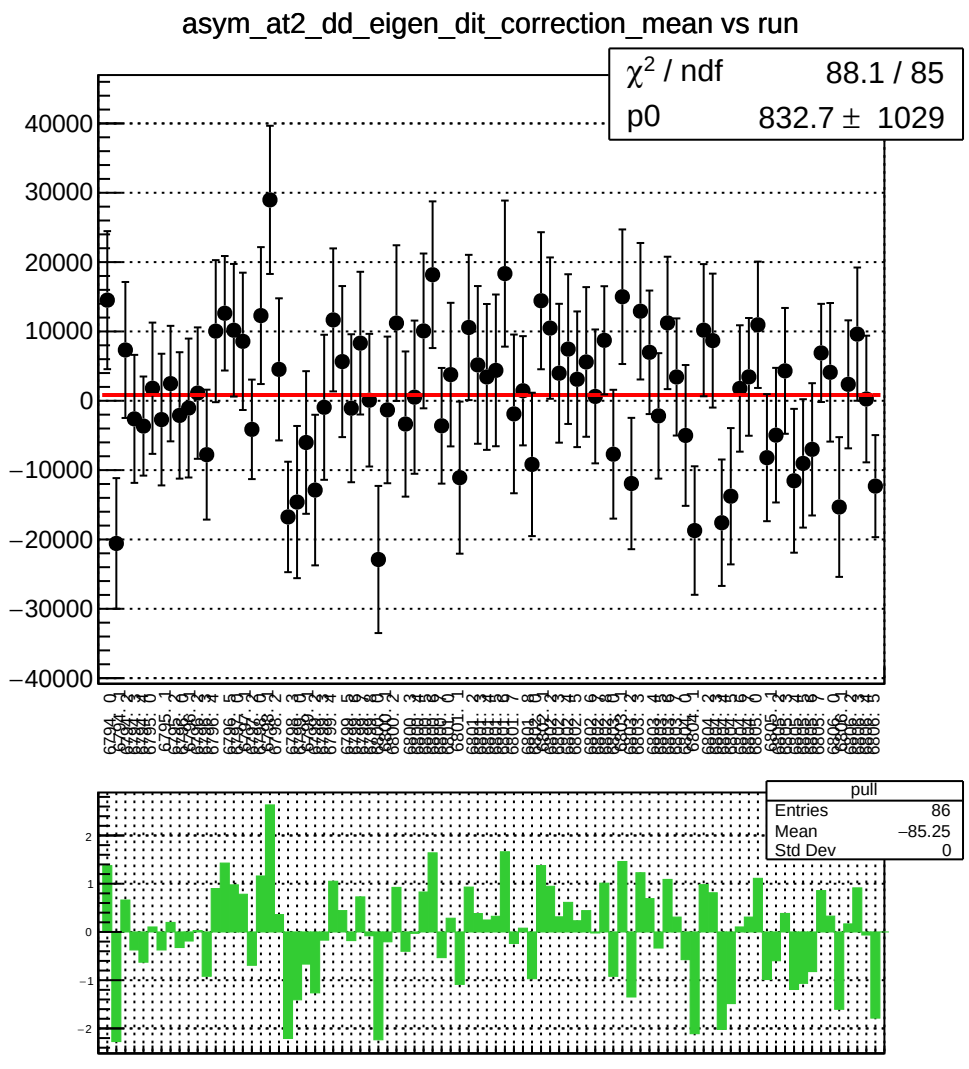

pull1D
Entries 86
Mean 0.01691
Std Dev 1.012

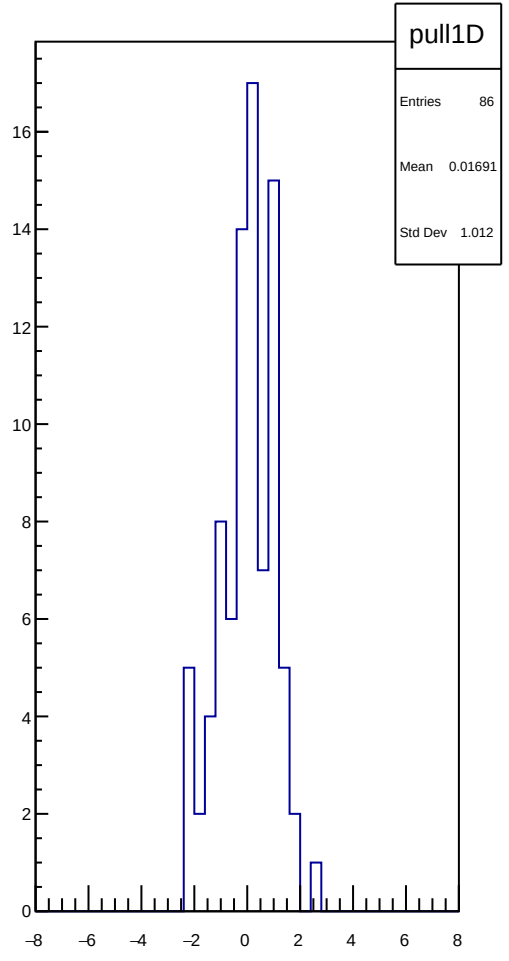

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 6220 / 85
p0 941.7 ± 0.7274
1100
1050
1000
950
900
850

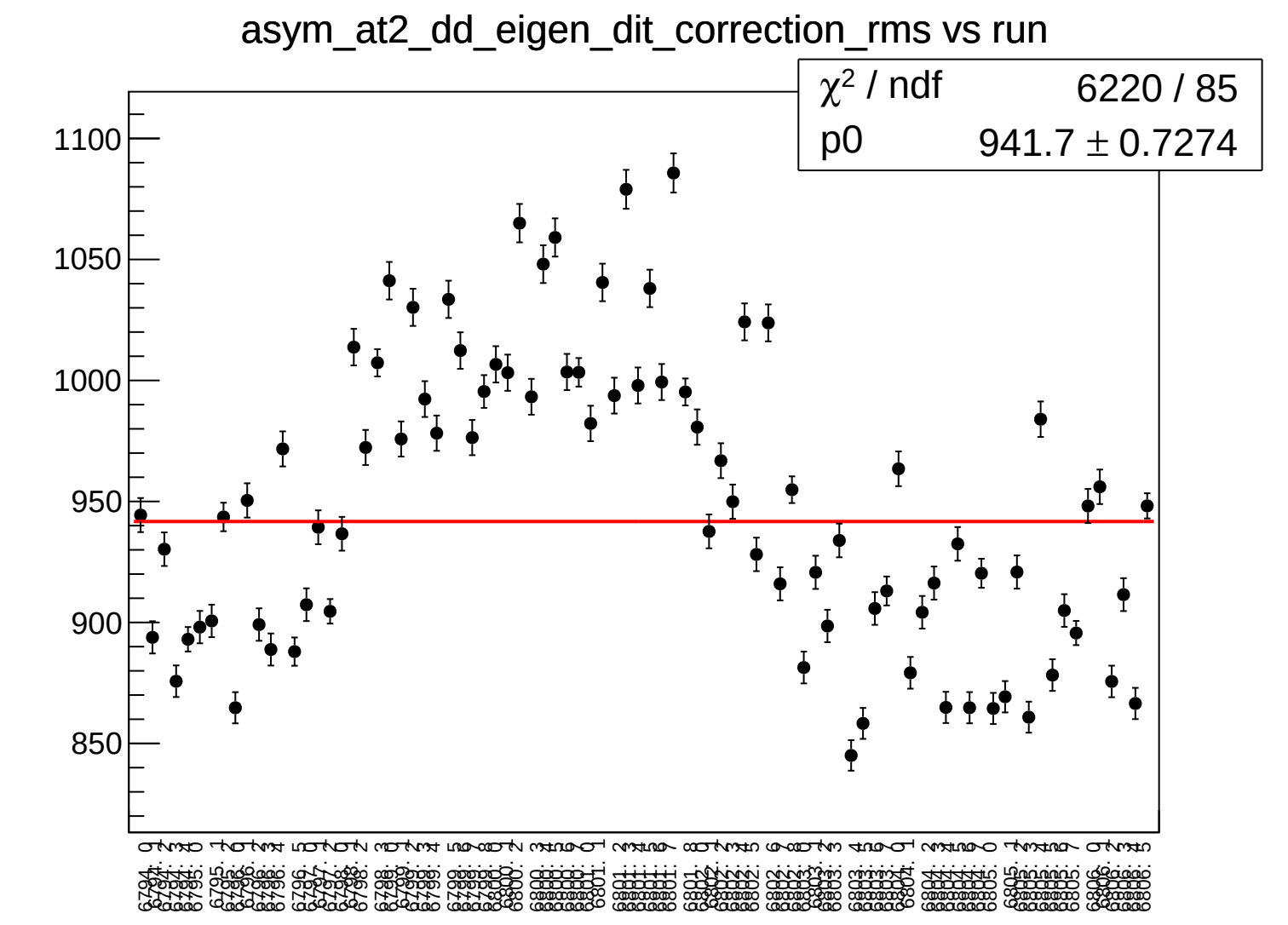

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 79.01 / 85
p0 −1297 ± 1844
pull
Entries 86
Mean 42.74
Std Dev 11.5

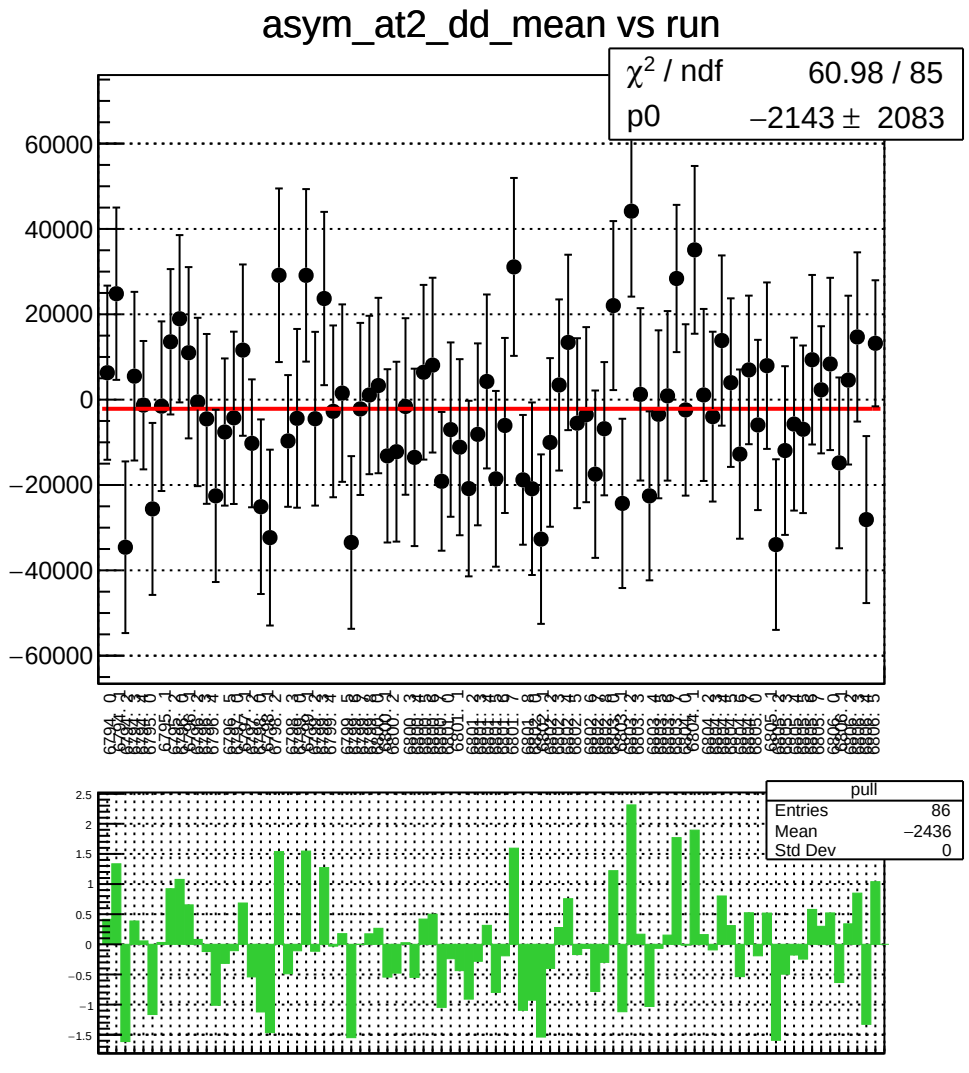

pull1D
Entries 86
Mean 0.009011
Std Dev 0.9585

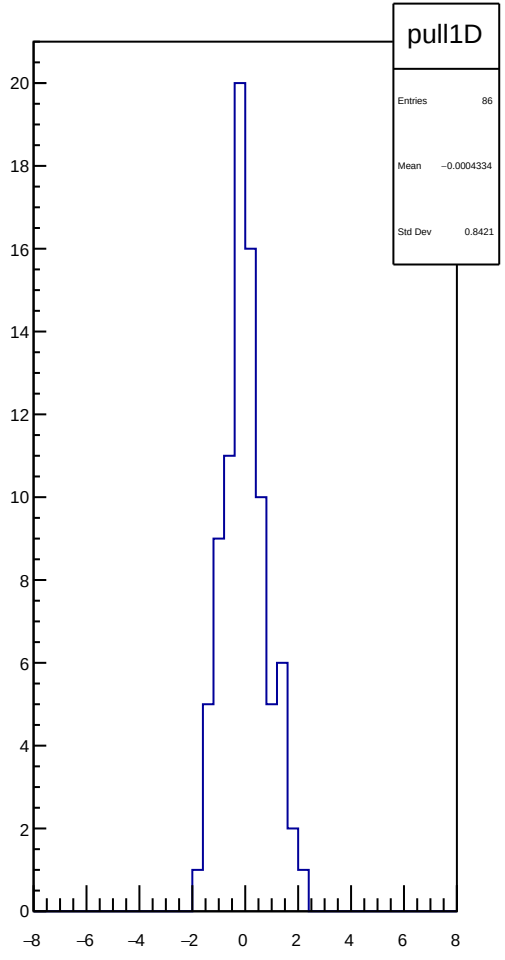

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 138.7 / 85
p0 1691 ± 1.304
1740
1720
1700
1680
1660
1640

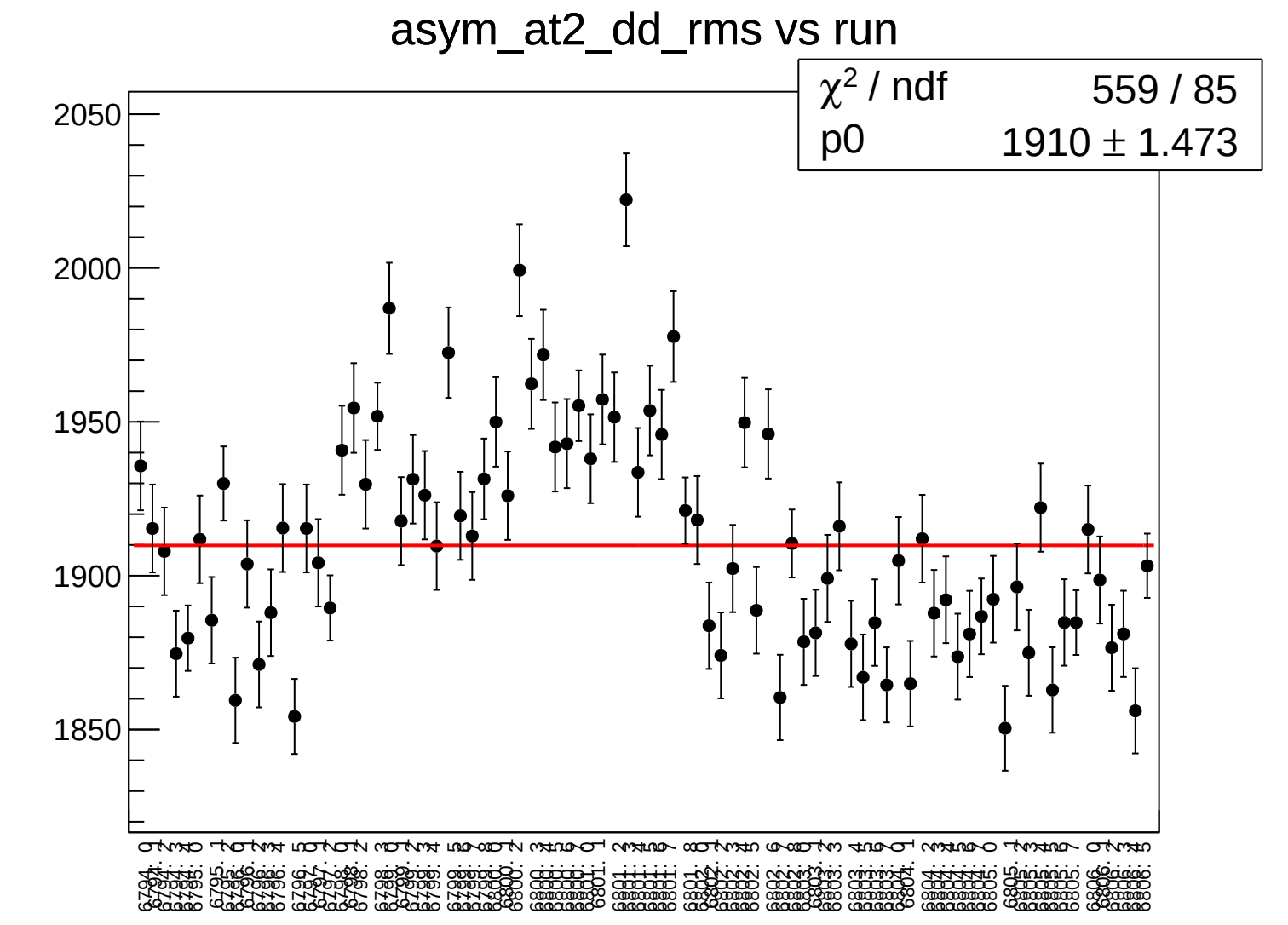

asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.1 / 85
p0 832.7 ± 1029
pull
Entries 86
Mean −85.25
Std Dev 0

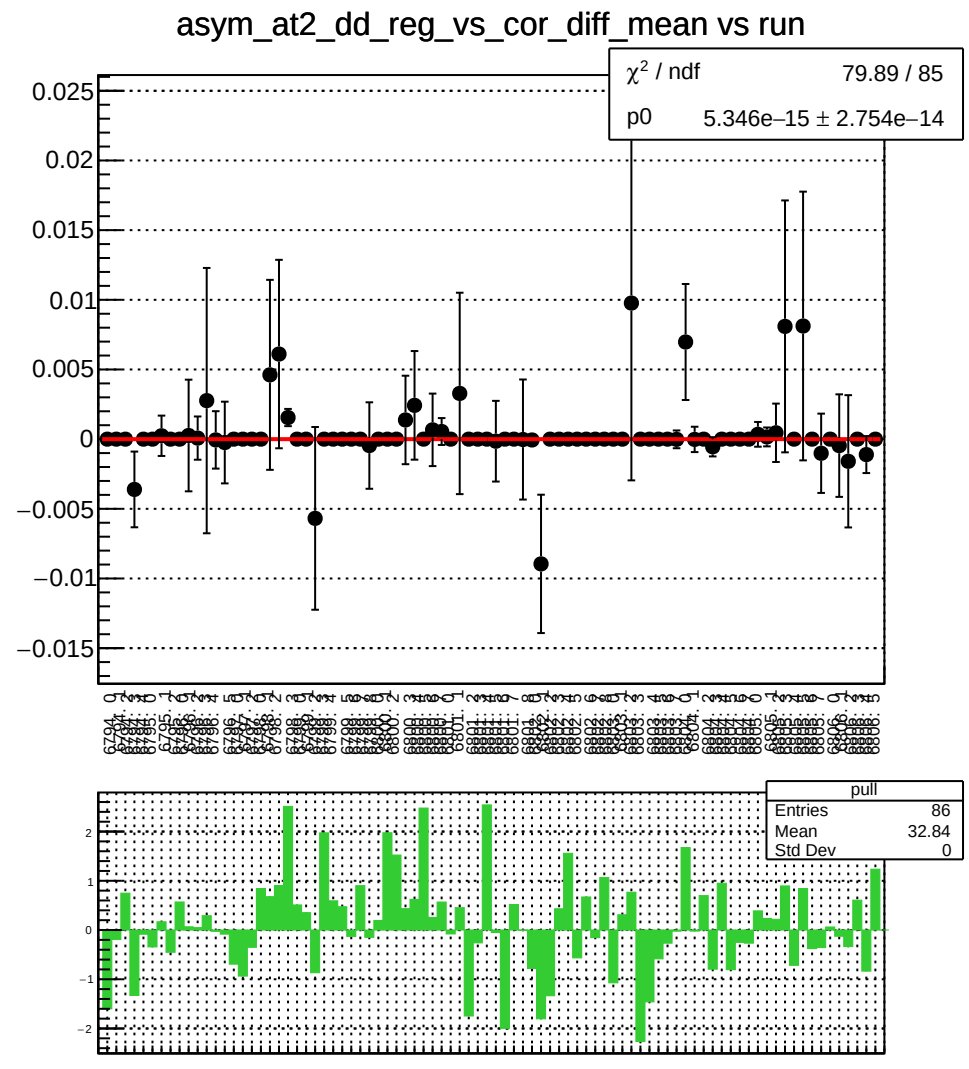

pull1D
Entries 86
Mean 0.01691
Std Dev 1.012

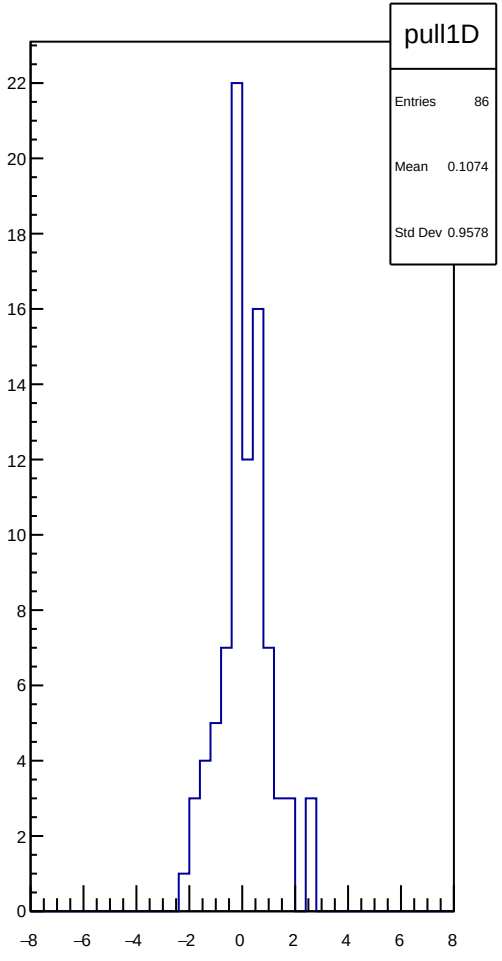

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6220 / 85
p0 941.7 ± 0.7274
1100
1050
1000
950
900
850

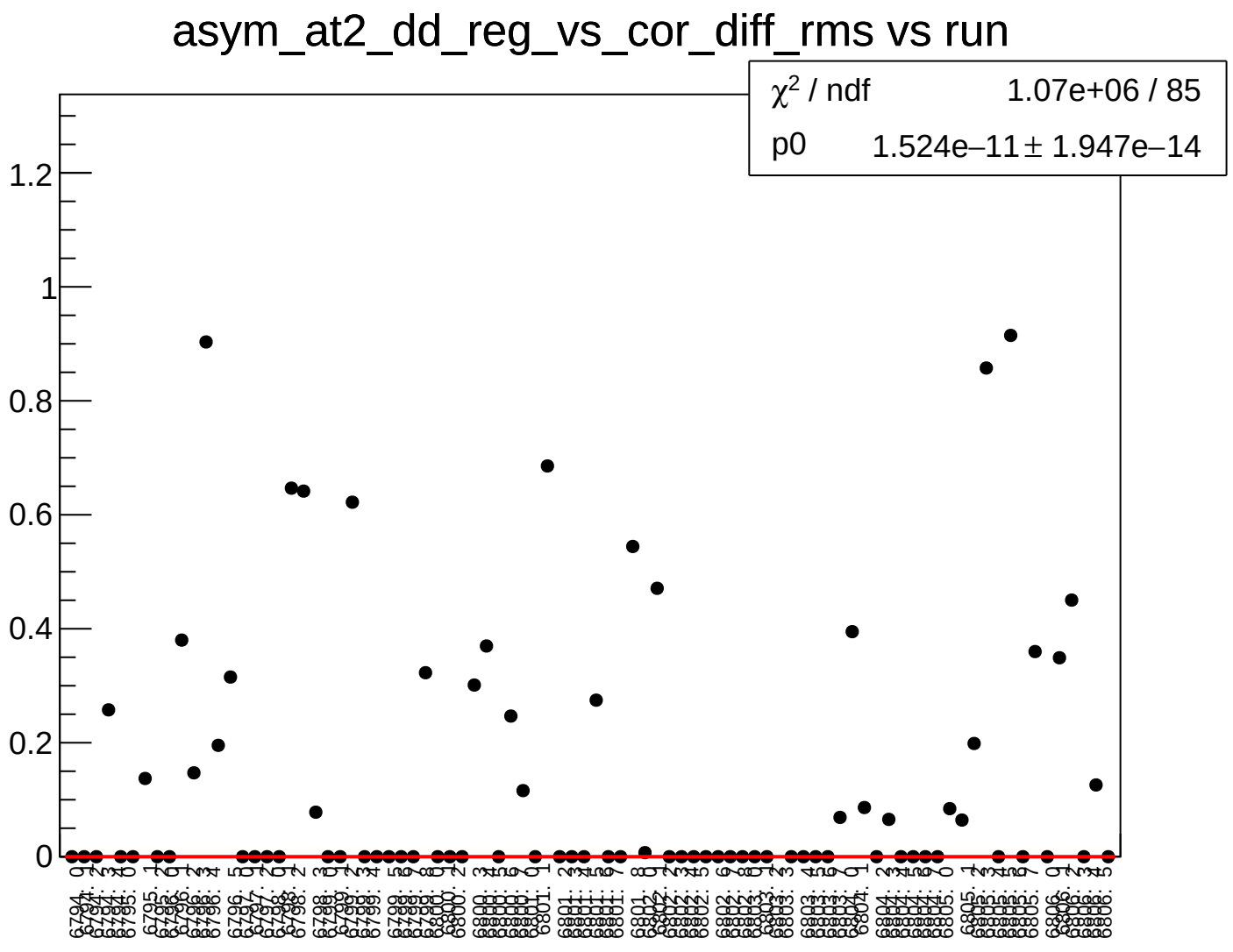

asym_at2_dd_mean vs run
χ² / ndf 60.98 / 85
p0 −2143 ± 2083
pull
Entries 86
Mean −2436
Std Dev 0

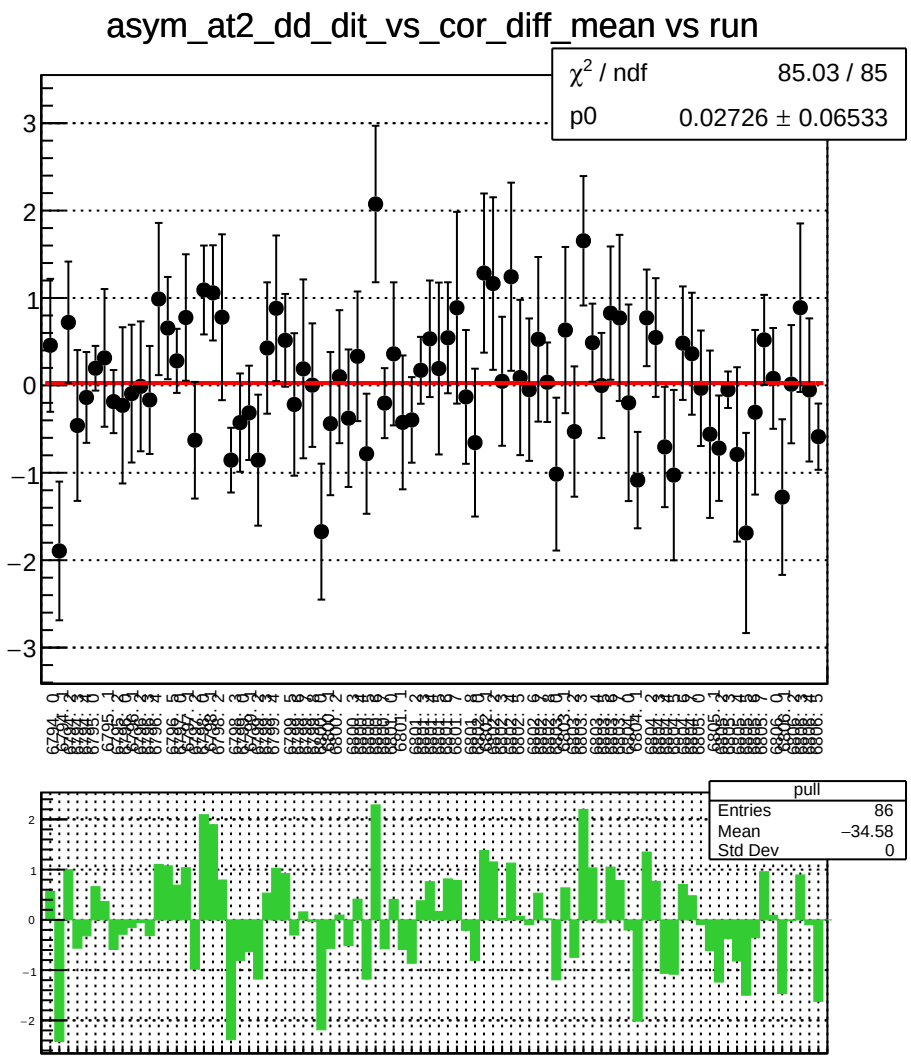

pull1D
Entries 86
Mean −0.0004334
Std Dev 0.8421

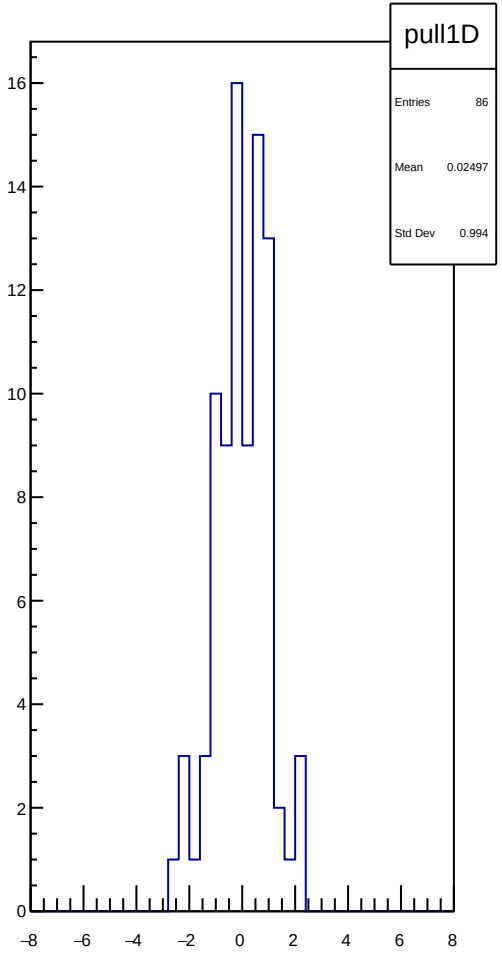

asym_at2_dd_rms vs run
χ² / ndf 559 / 85
p0 1910 ± 1.473
2050
2000
1950
1900
1850

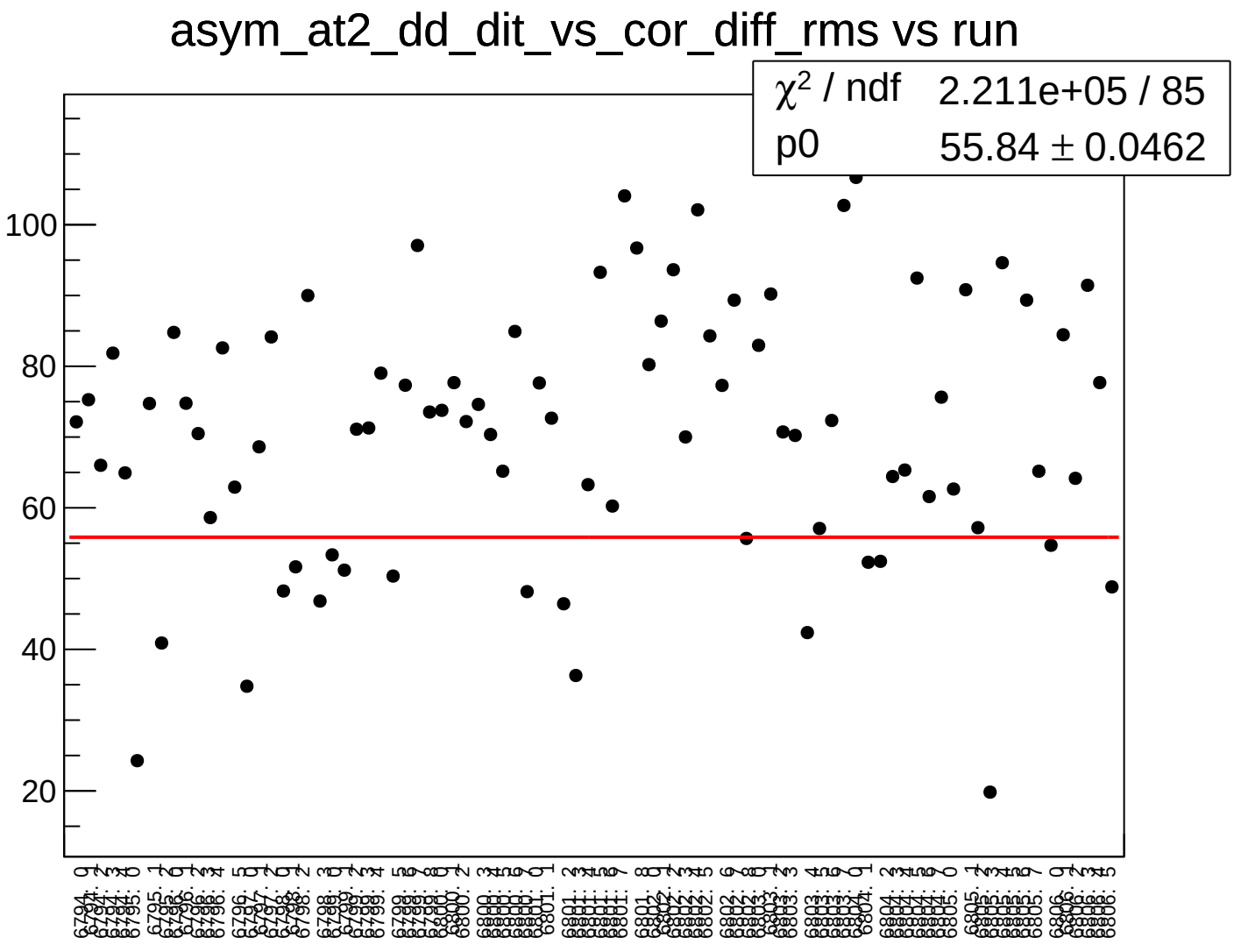

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 79.89 / 85
p0 5.346e−15 ± 2.754e−14
pull
Entries 86
Mean 32.84
Std Dev 0


pull1D
Entries 86
Mean 0.1074
Std Dev 0.9578

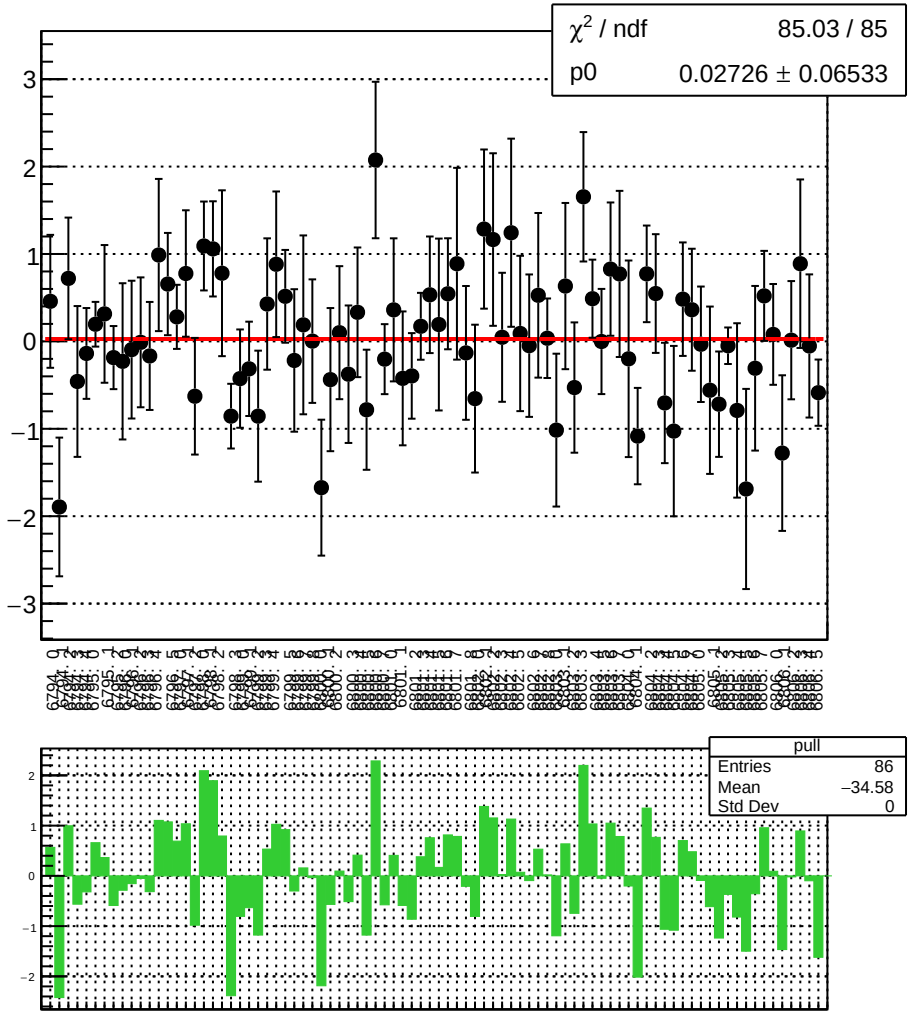

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.07e+06 / 85
p0 1.524e−11 ± 1.947e−14
1.2
1
0.8
0.6
0.4
0.2
0

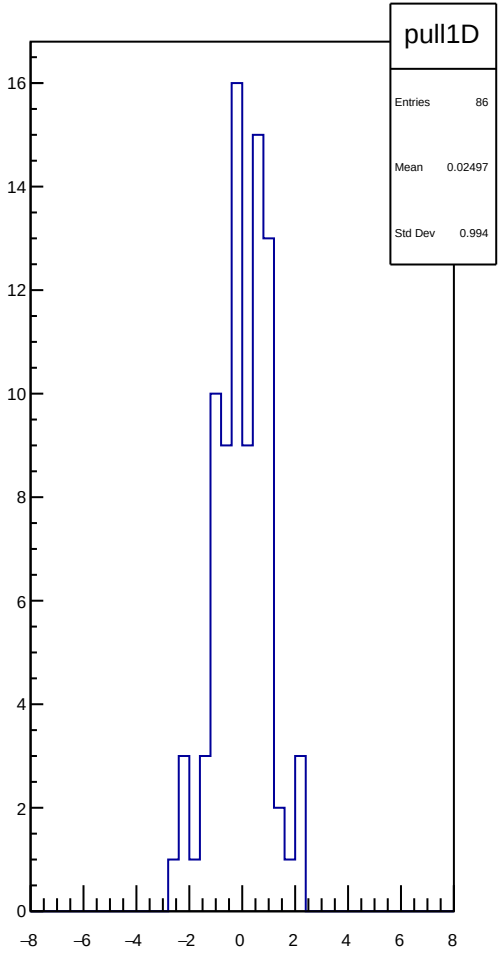

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.03 / 85
p0 0.02726 ± 0.06533
pull
Entries 86
Mean −34.58
Std Dev 0

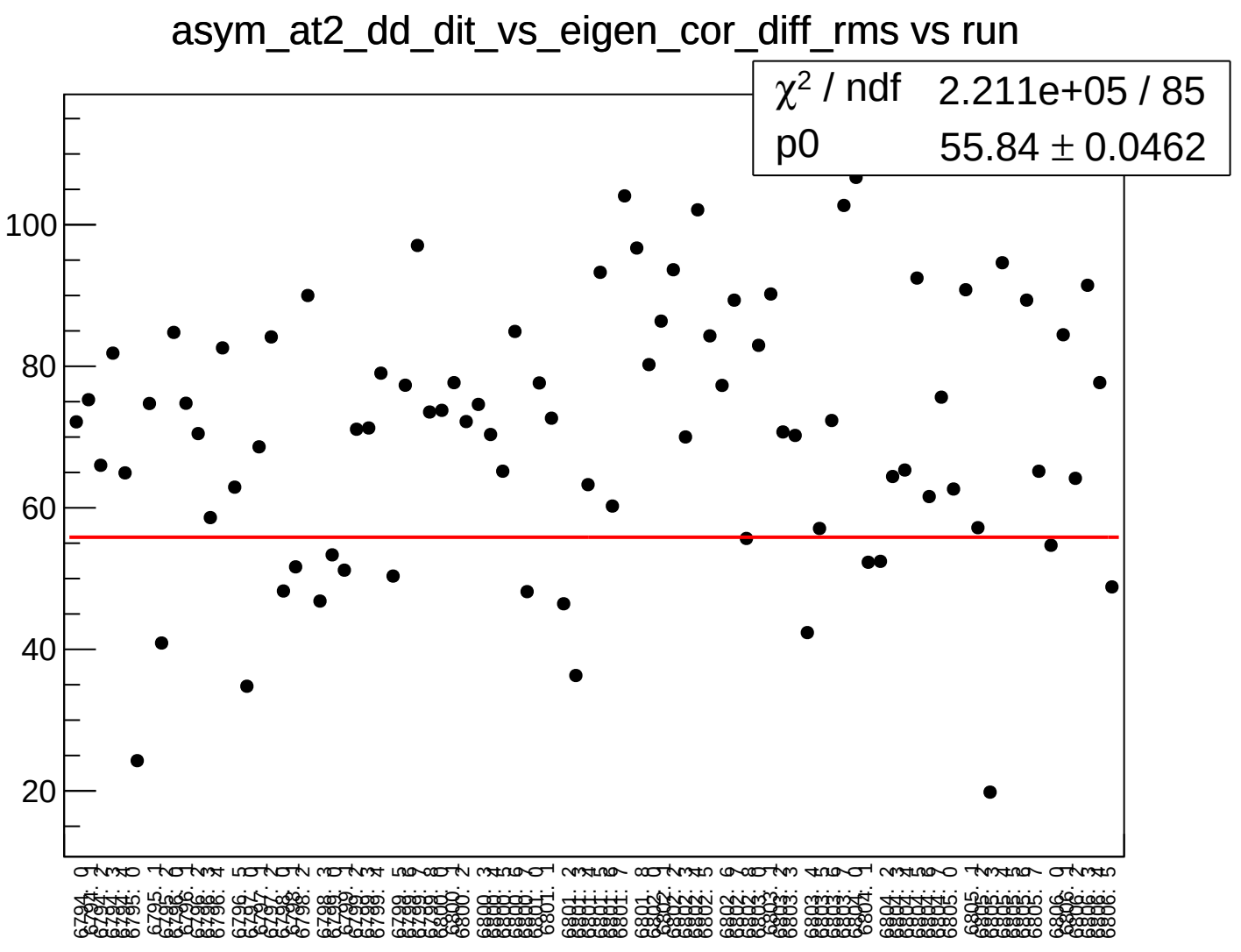

pull1D
Entries 86
Mean 0.02497
Std Dev 0.994

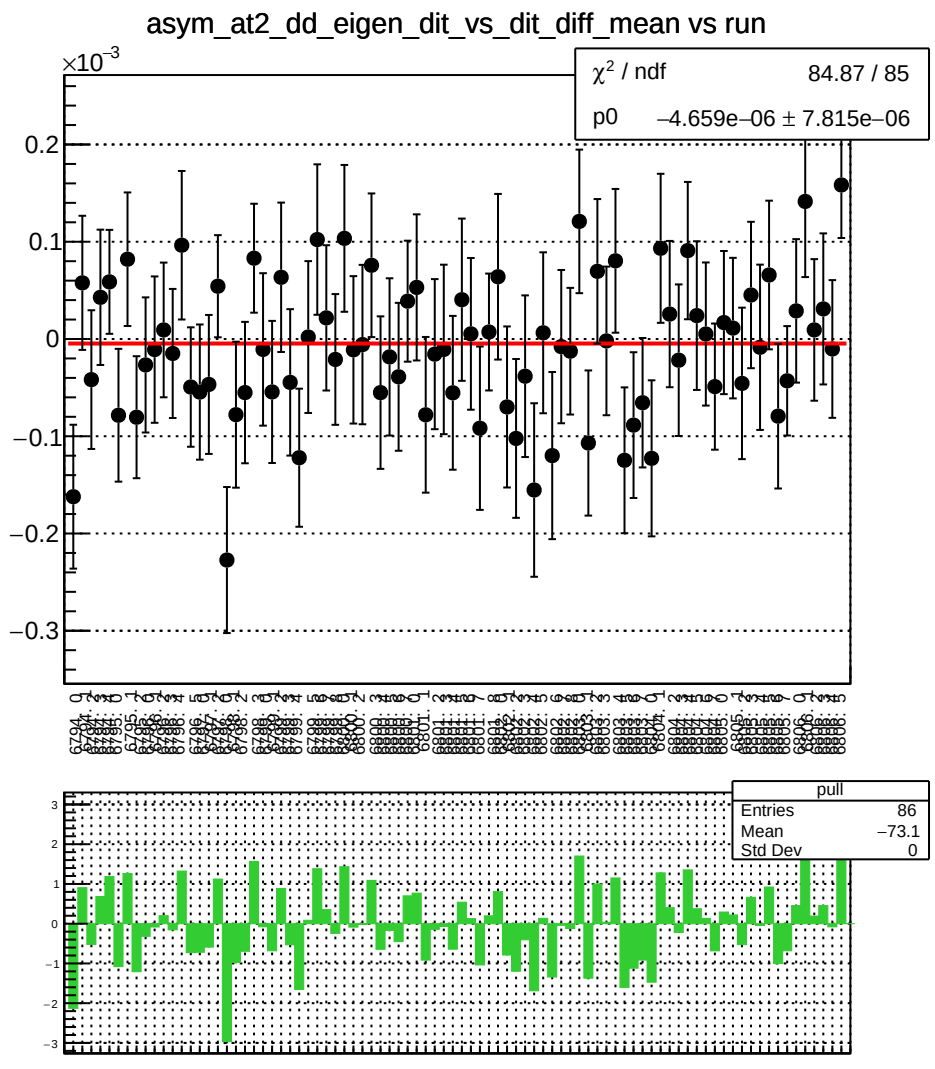

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.211e+05 / 85
p0 55.84 ± 0.0462
100
80
60
40
20

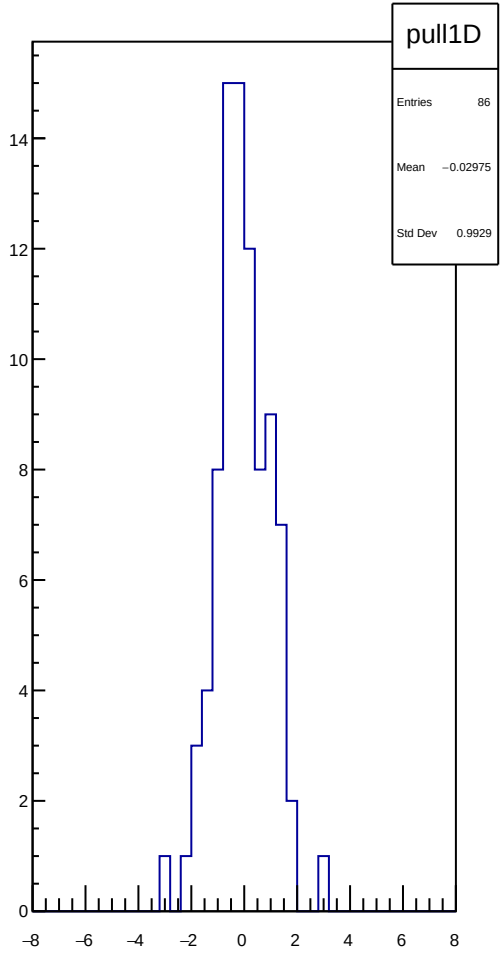
asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run

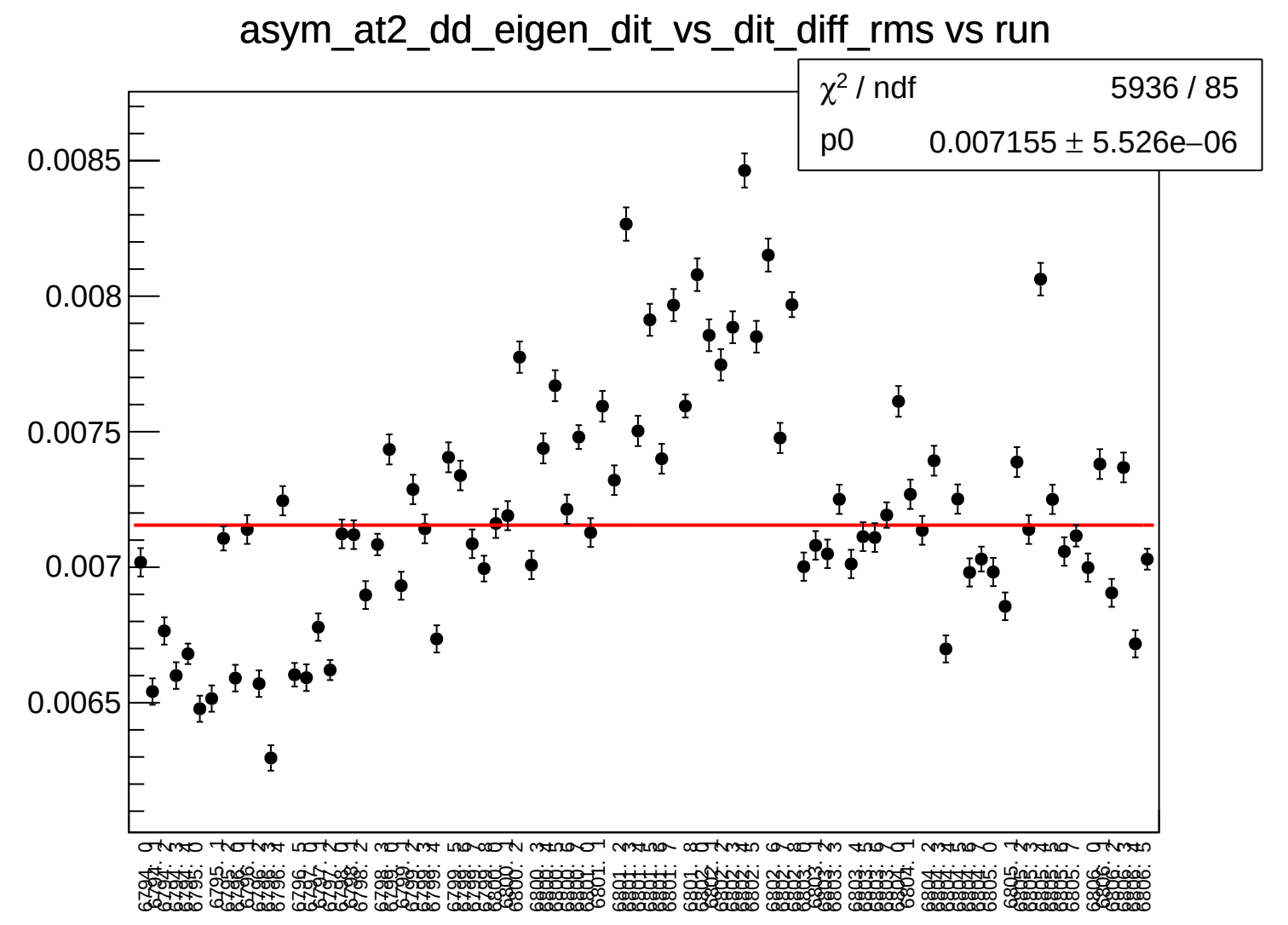




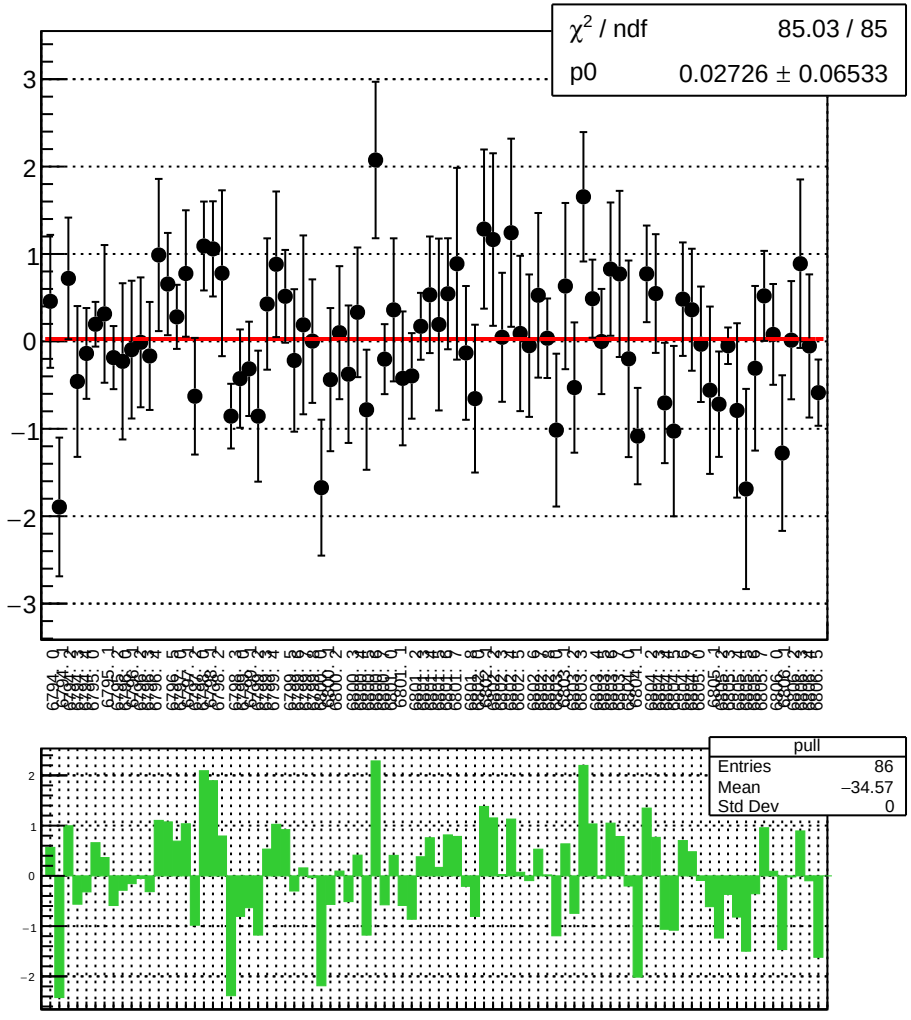

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.211e+05 / 85
p0 55.84 ± 0.0462
100
80
60
40
20

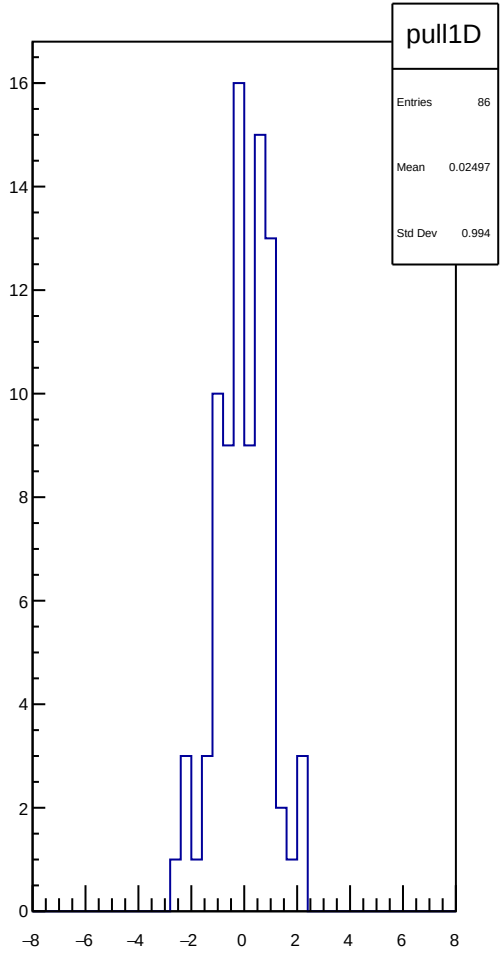

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.87 / 85
p0 −4.659e−06 ± 7.815e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 86
Mean −73.1
Std Dev 0
3
2
1
0
−1
−2
−3

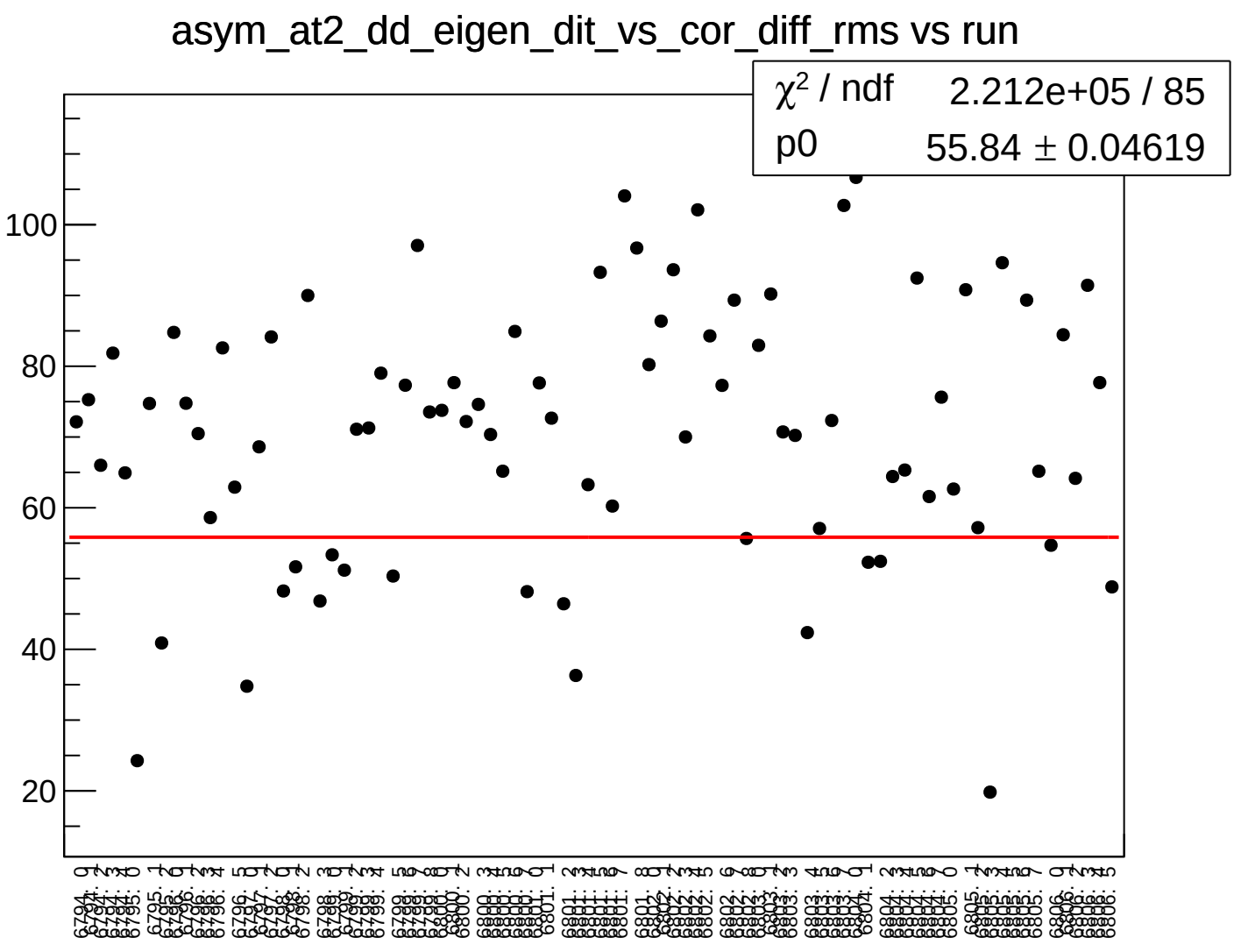

pull1D
Entries 86
Mean −0.02975
Std Dev 0.9929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

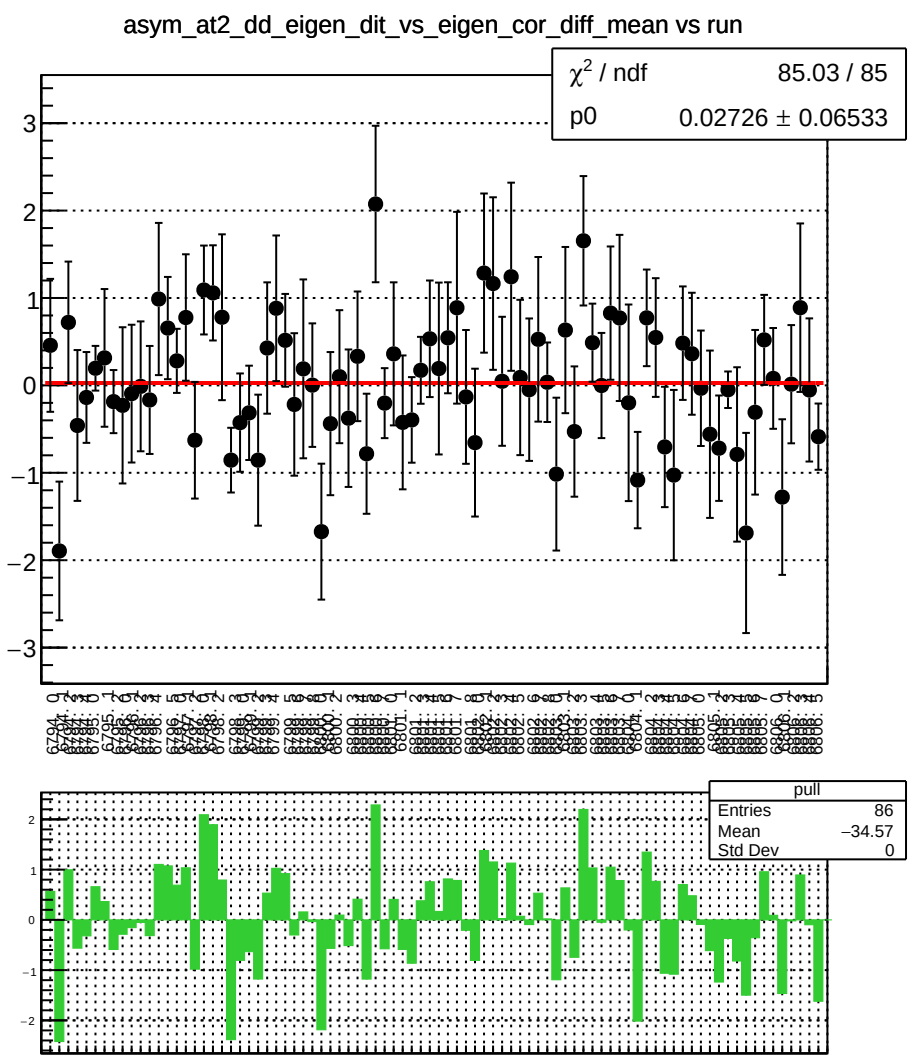

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5936 / 85
p0 0.007155 ± 5.526e−06
0.0085
0.008
0.0075
0.007
0.0065

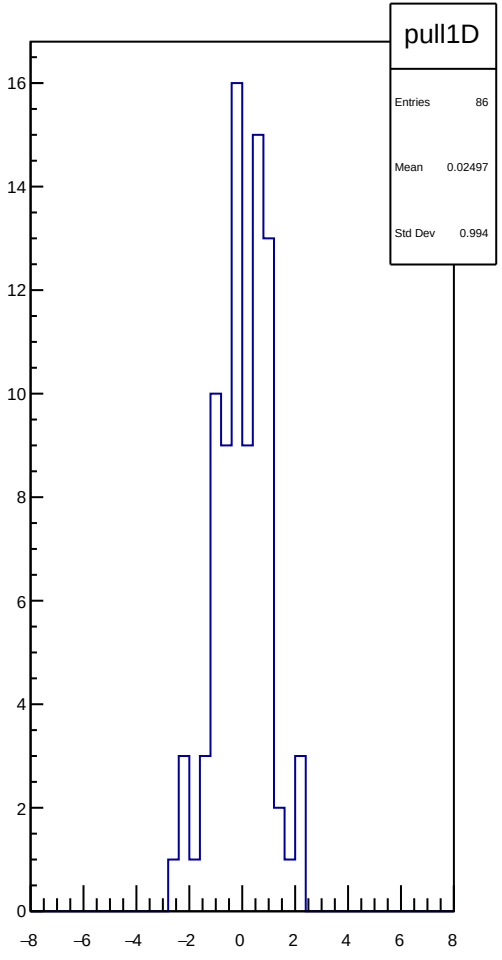
asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run

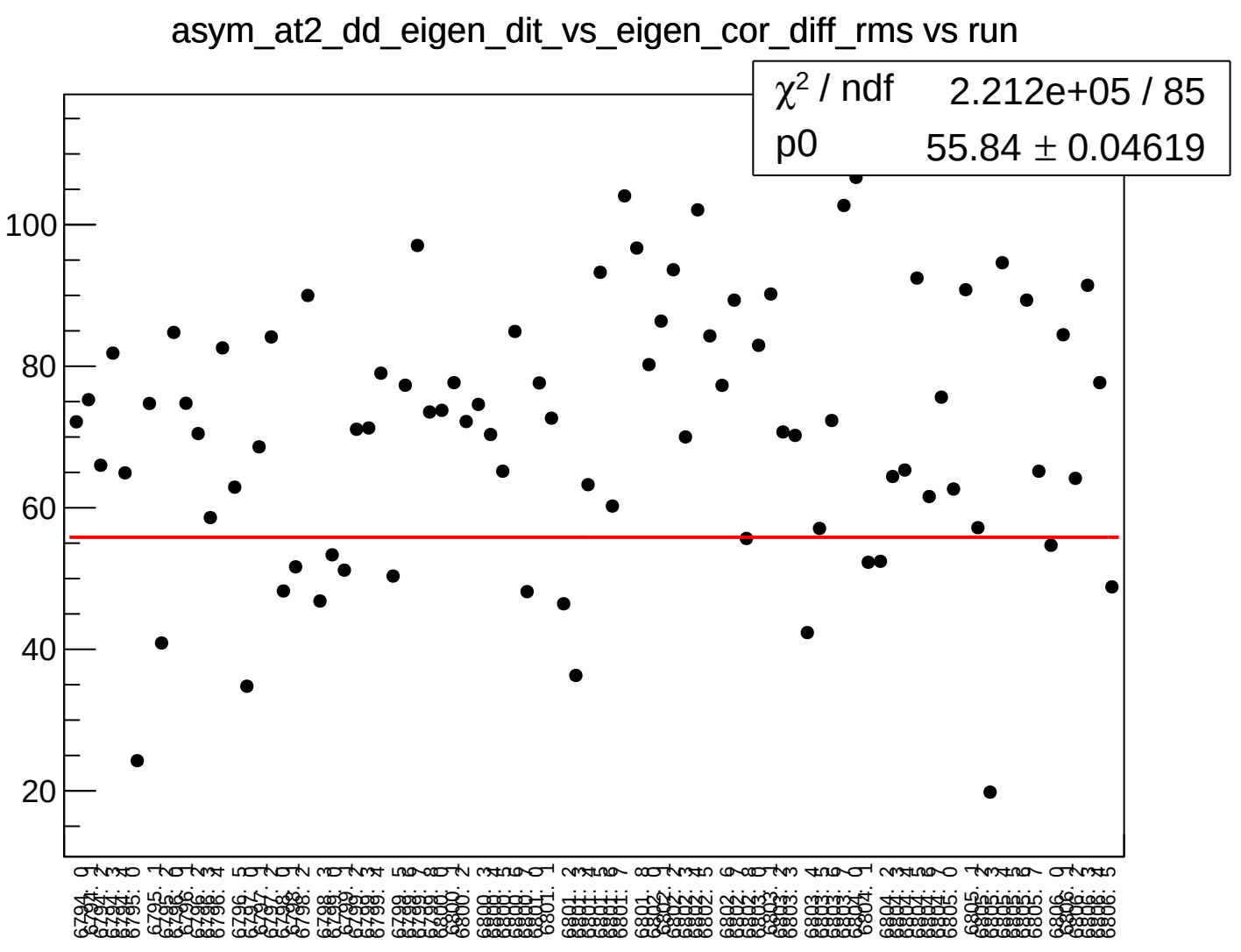


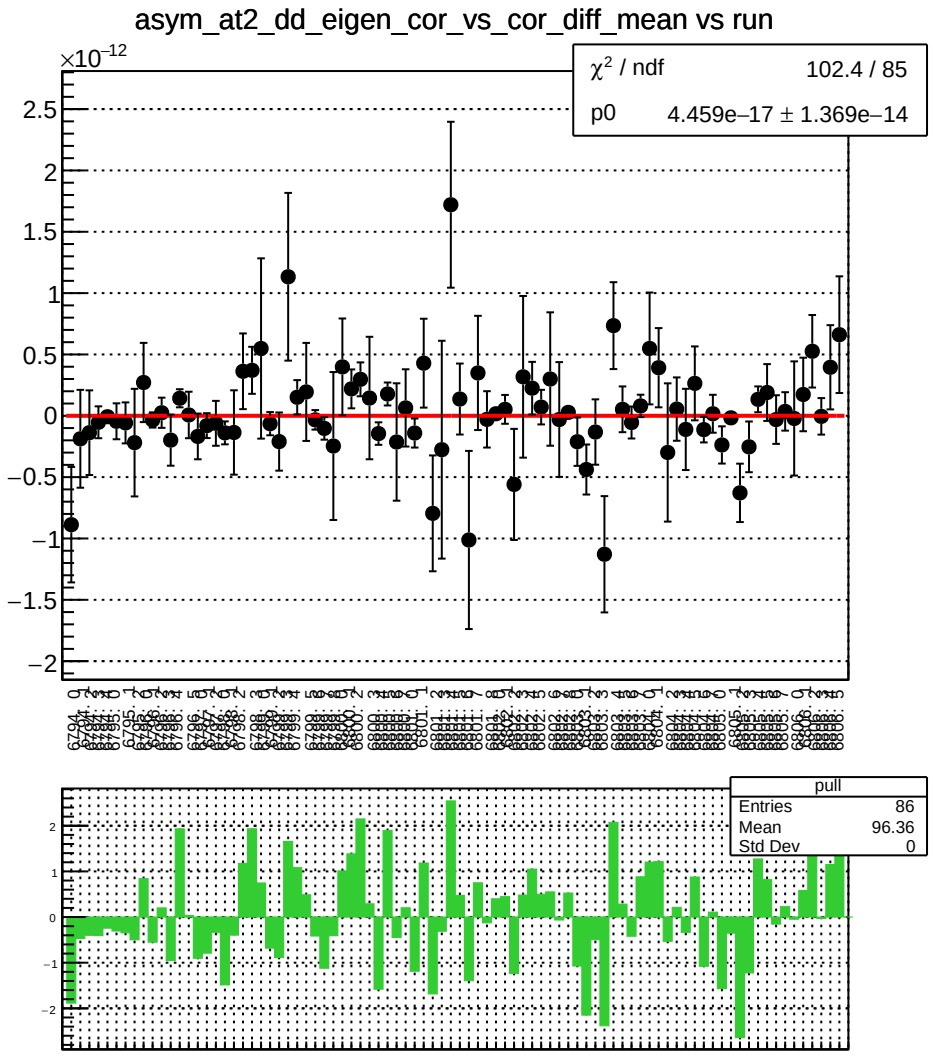


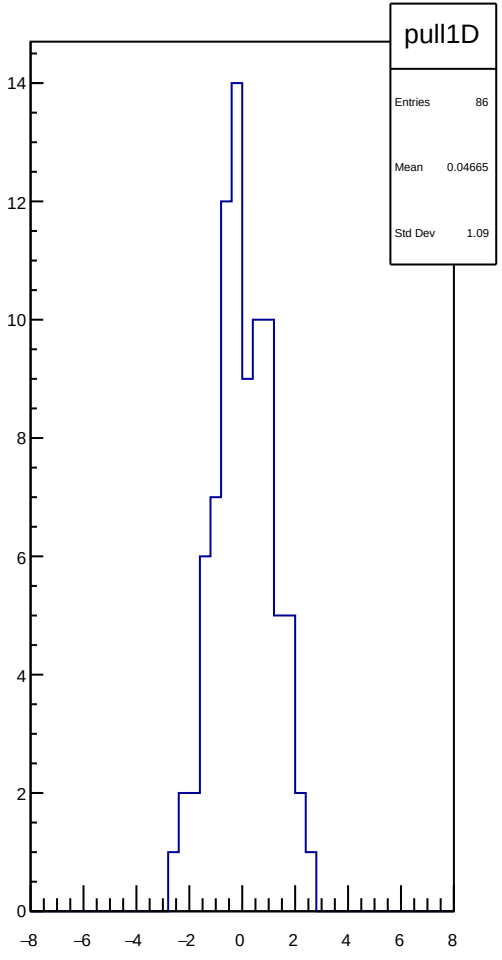

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 85
p0 55.84 ± 0.04619
100
80
60
40
20

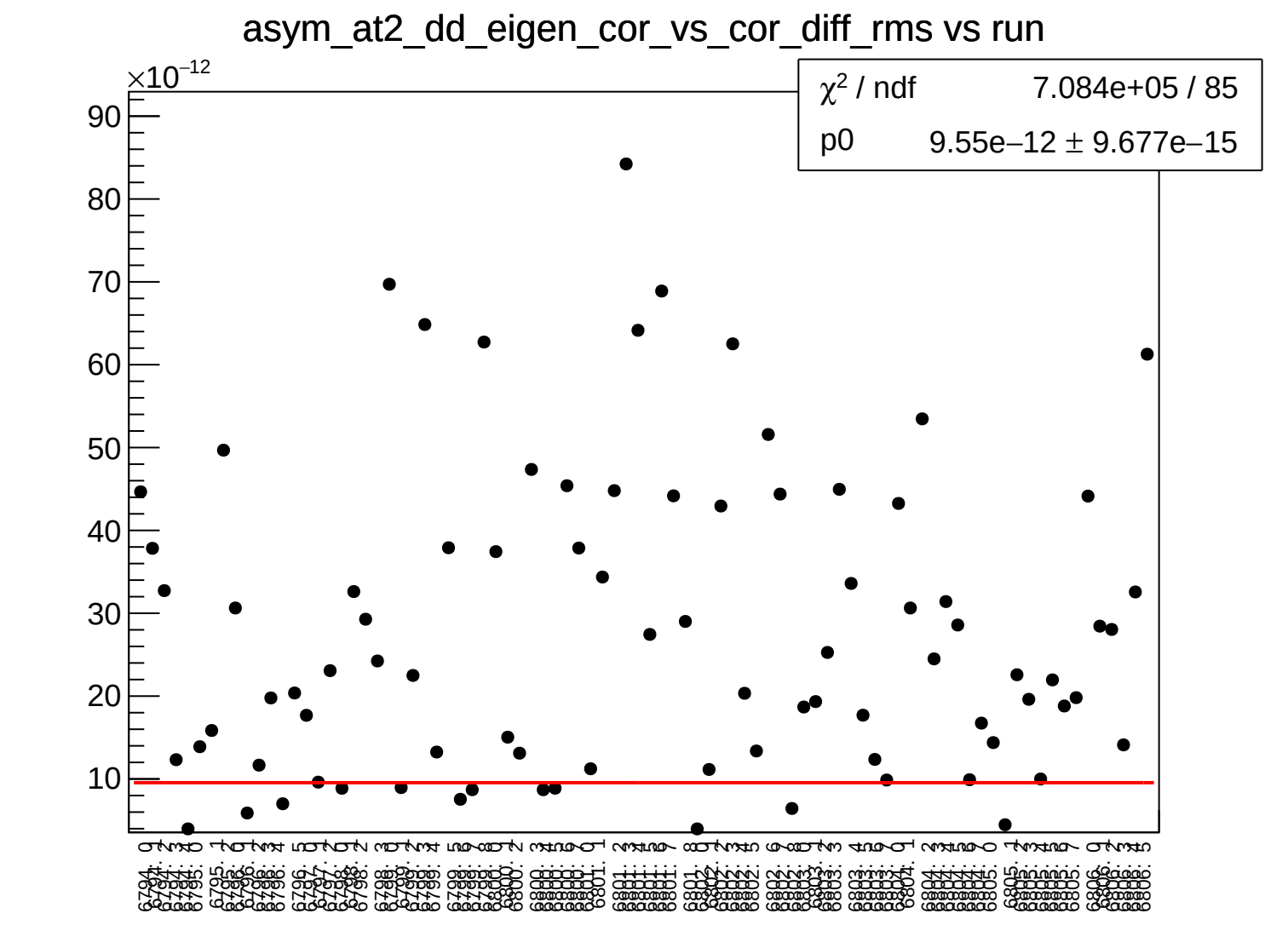

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.03 / 85
p0 0.02726 ± 0.06533
pull
Entries 86
Mean −34.57
Std Dev 0

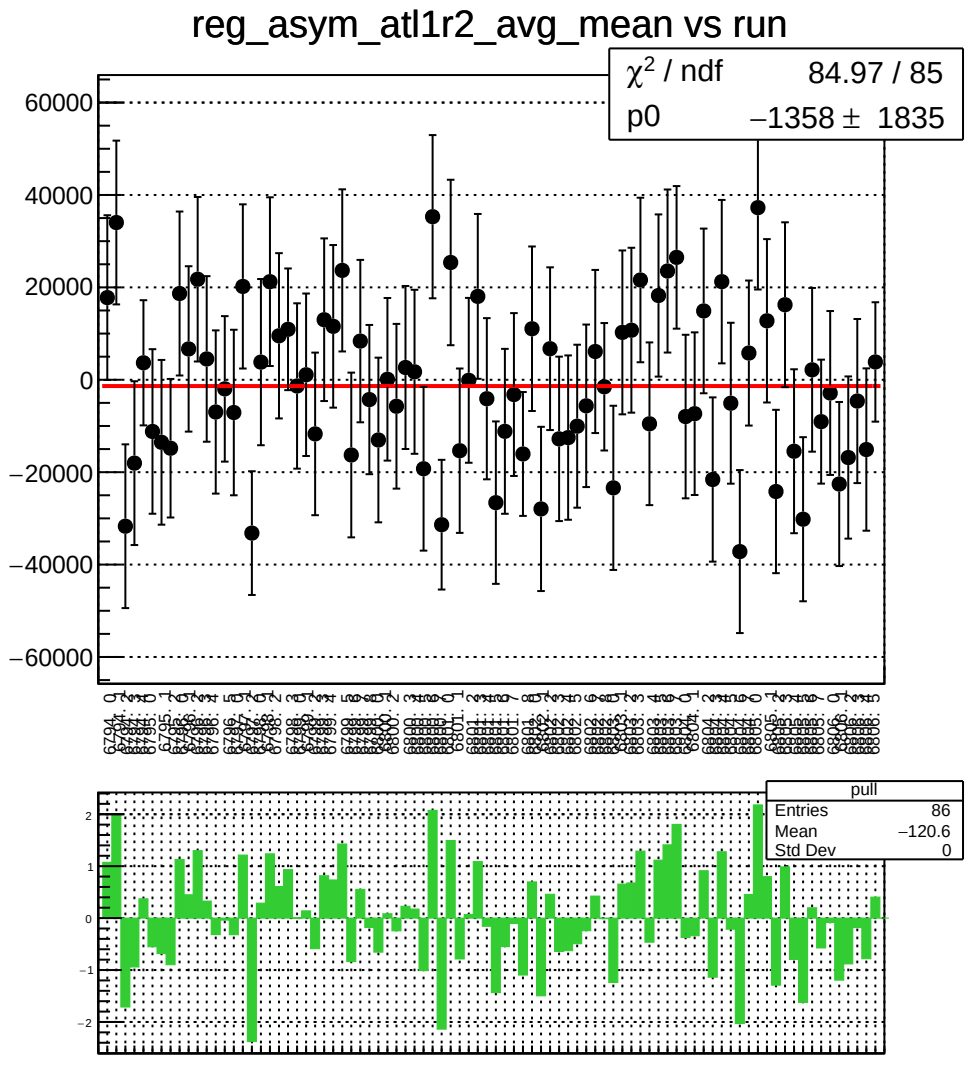

pull1D
Entries 86
Mean 0.02497
Std Dev 0.994

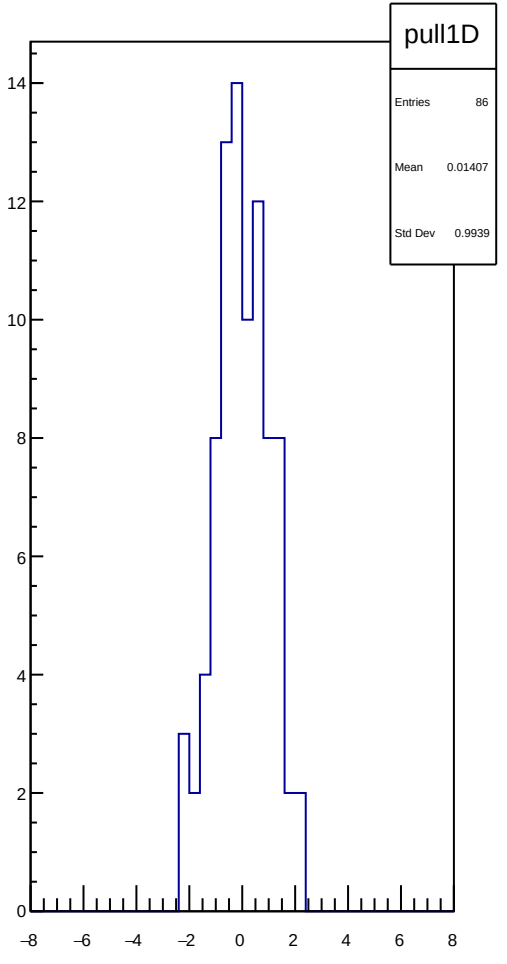

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.212e+05 / 85
p0 55.84 ± 0.04619
100
80
60
40
20

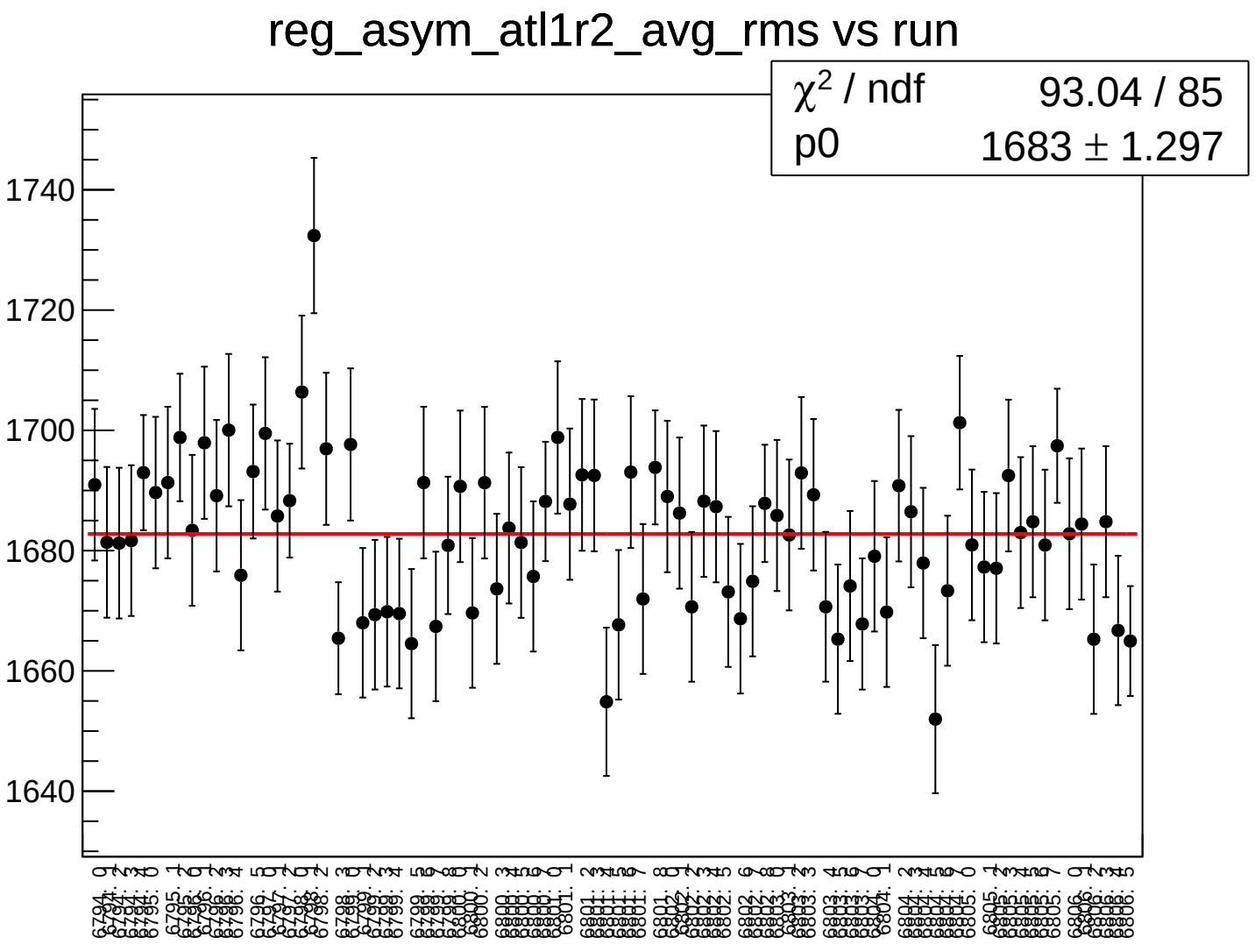

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 85
p0 4.459e−17 ± 1.369e−14
pull
Entries 86
Mean 96.36
Std Dev 0

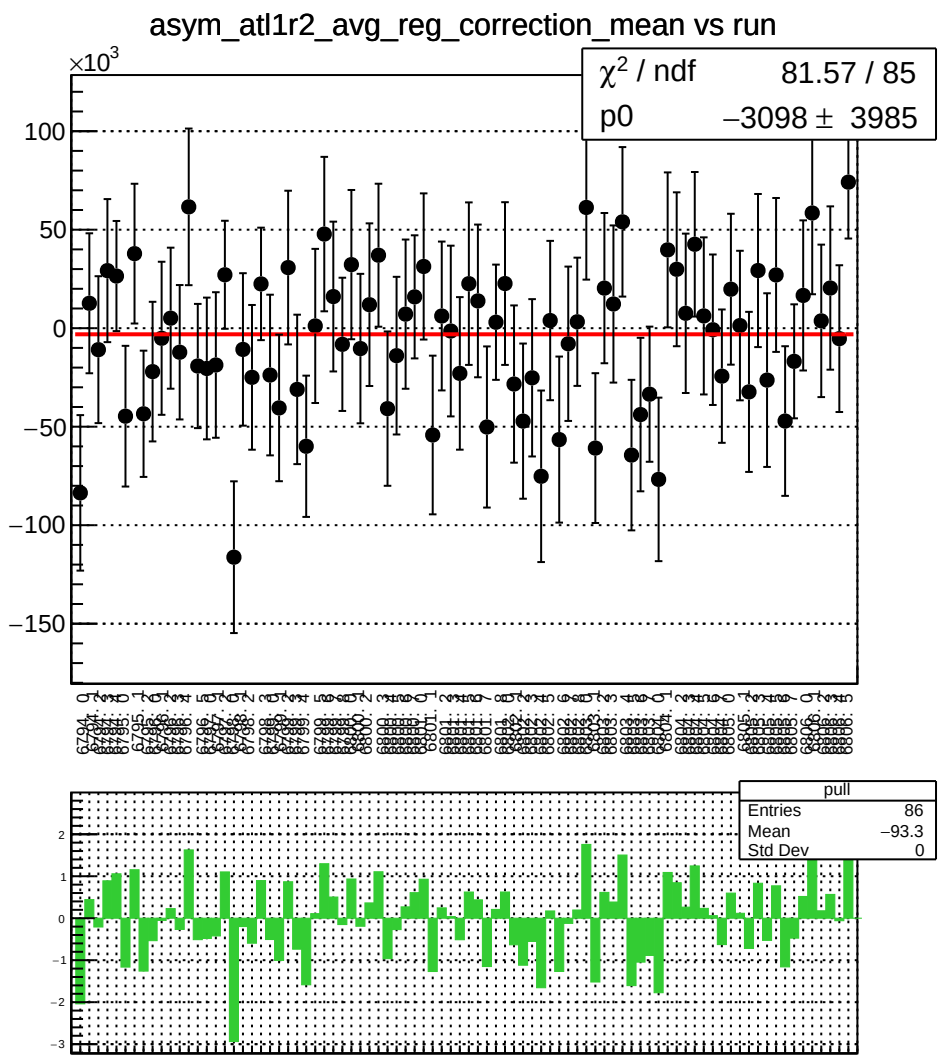

pull1D
Entries 86
Mean 0.04665
Std Dev 1.09

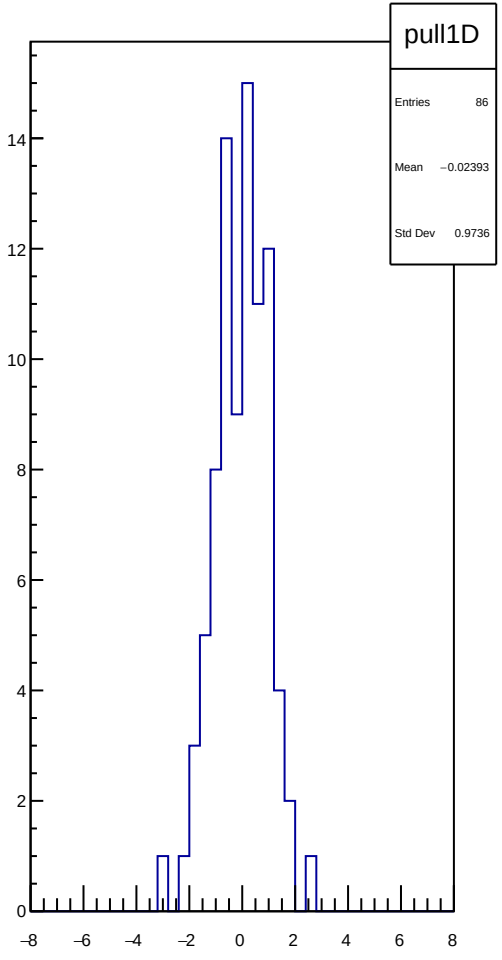

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.084e+05 / 85
p0 9.55e−12 ± 9.677e−15
90
80
70
60
50
40
30
20
10

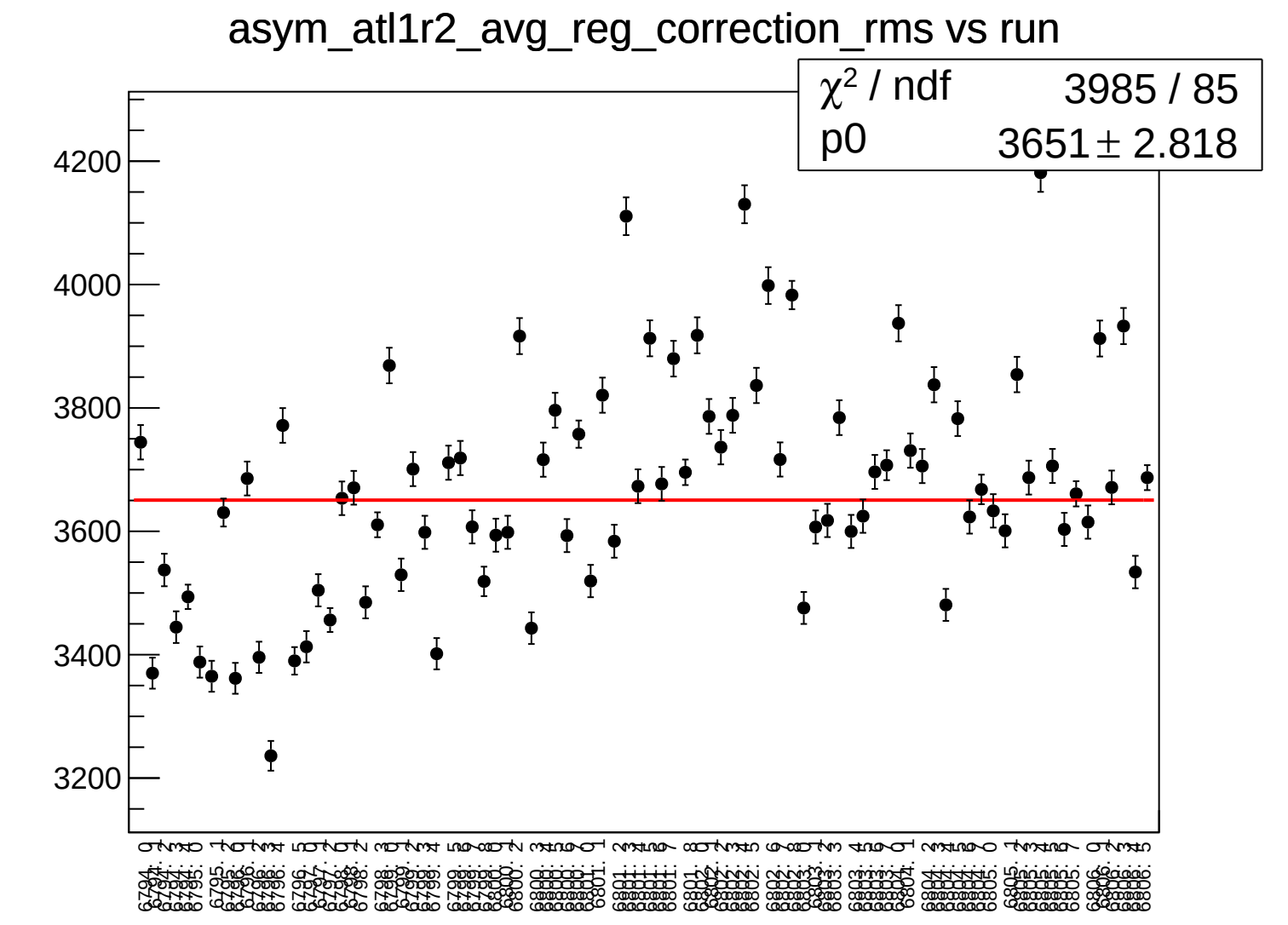

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 84.97 / 85
p0 −1358 ± 1835
pull
Entries 86
Mean −120.6
Std Dev 0

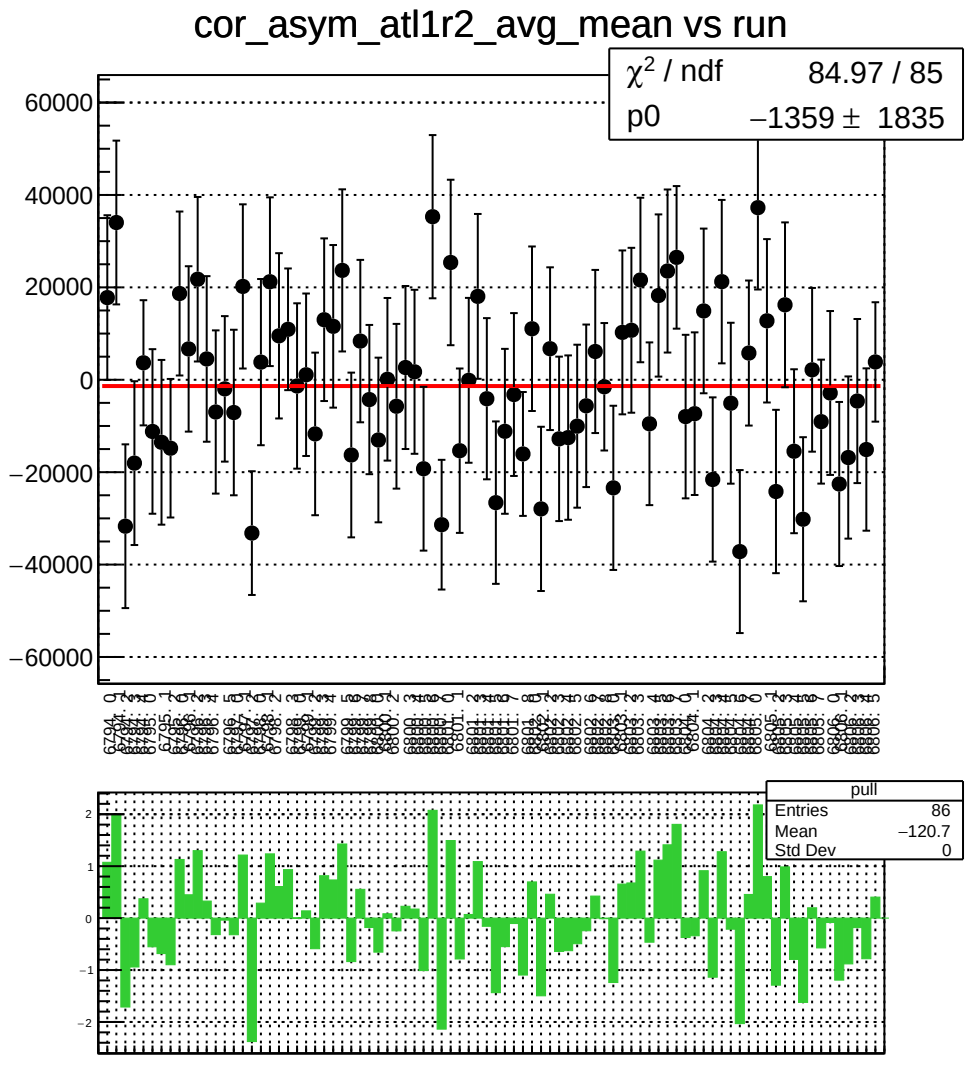

pull1D
Entries 86
Mean 0.01407
Std Dev 0.9939

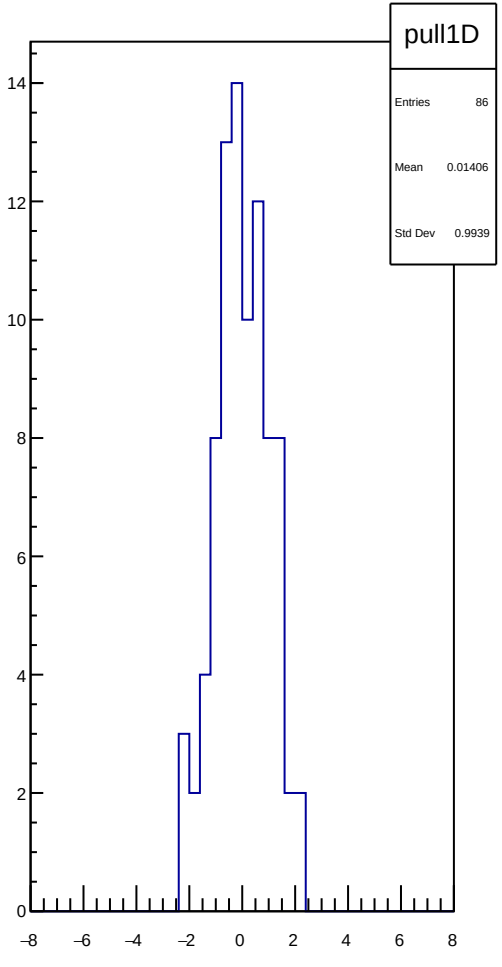

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 93.04 / 85
p0 1683 ± 1.297
1740
1720
1700
1680
1660
1640

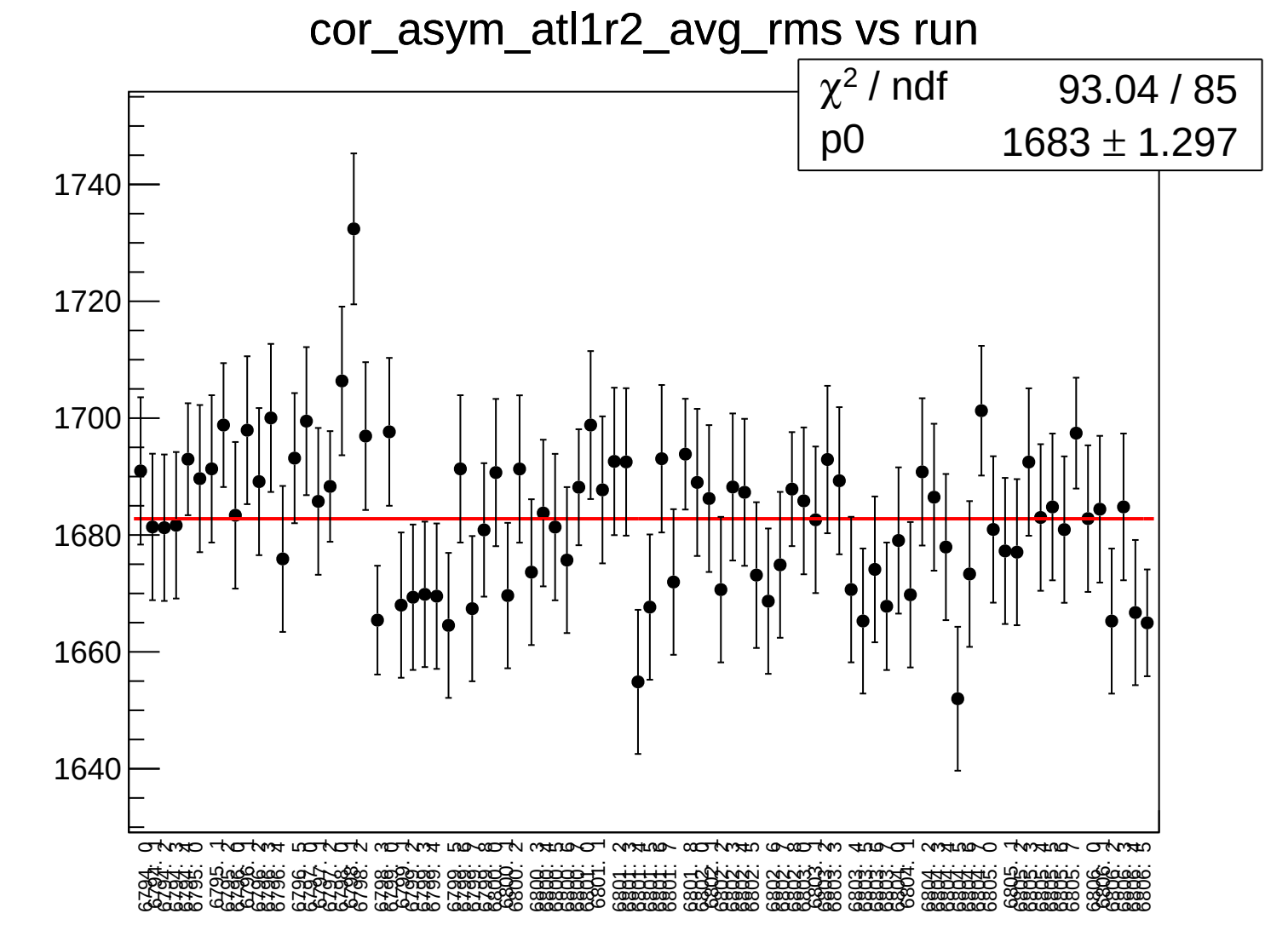

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.57 / 85
p0 −3098 ± 3985
100
50
0
−50
−100
−150
pull
Entries 86
Mean −93.3
Std Dev 0
2
1
0
−1
−2
−3

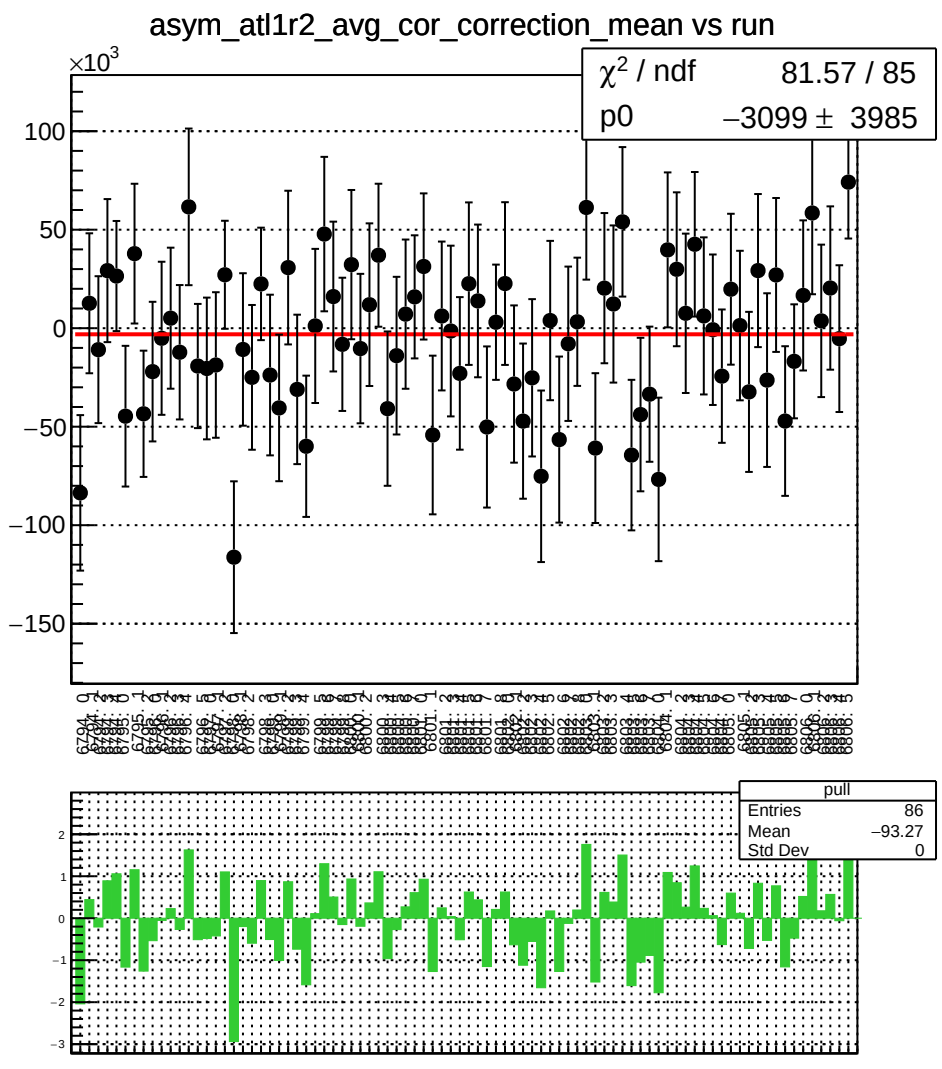

pull1D
Entries 86
Mean −0.02393
Std Dev 0.9736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

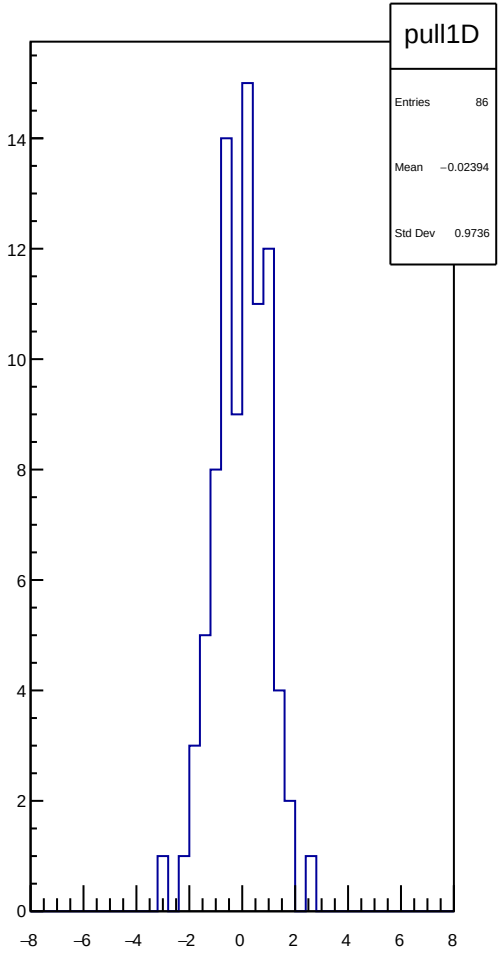

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3985 / 85
p0 3651 ± 2.818
4200
4000
3800
3600
3400
3200

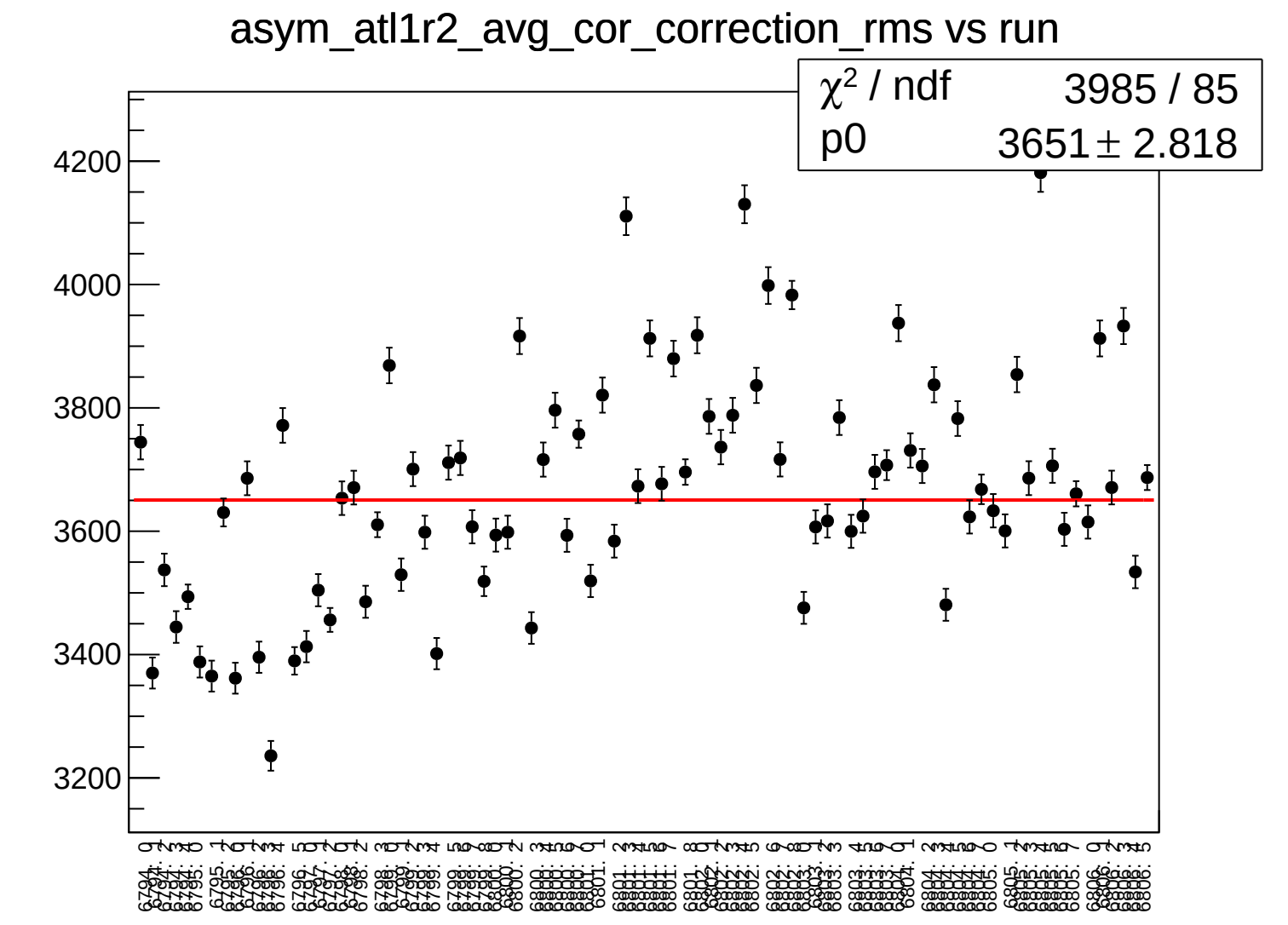

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 84.97 / 85
p0 −1359 ± 1835
pull
Entries 86
Mean −120.7
Std Dev 0

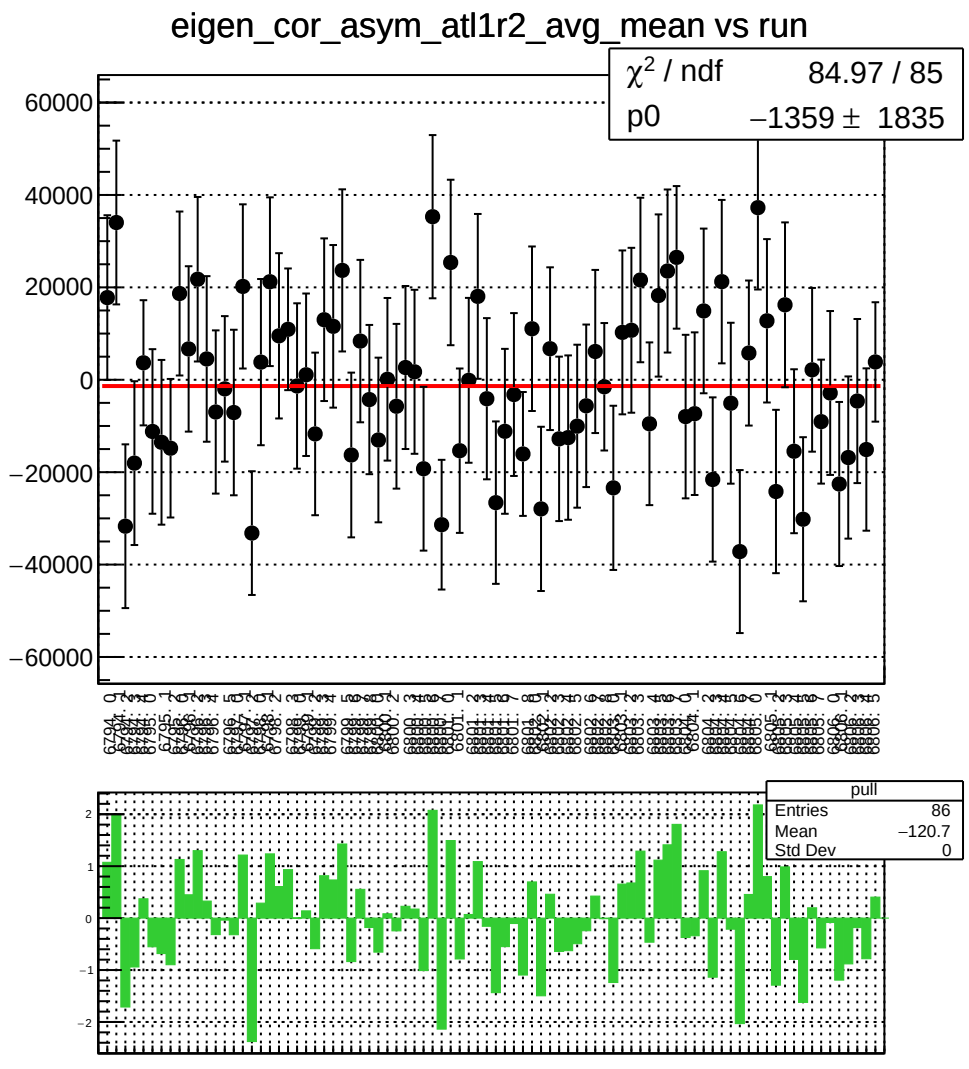

pull1D
Entries 86
Mean 0.01406
Std Dev 0.9939

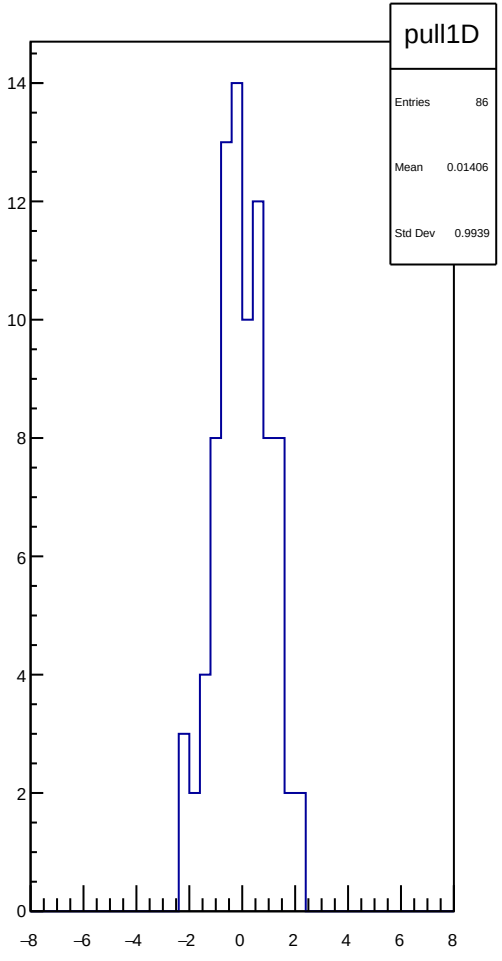

cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 93.04 / 85
p0 1683 ± 1.297
1740
1720
1700
1680
1660
1640

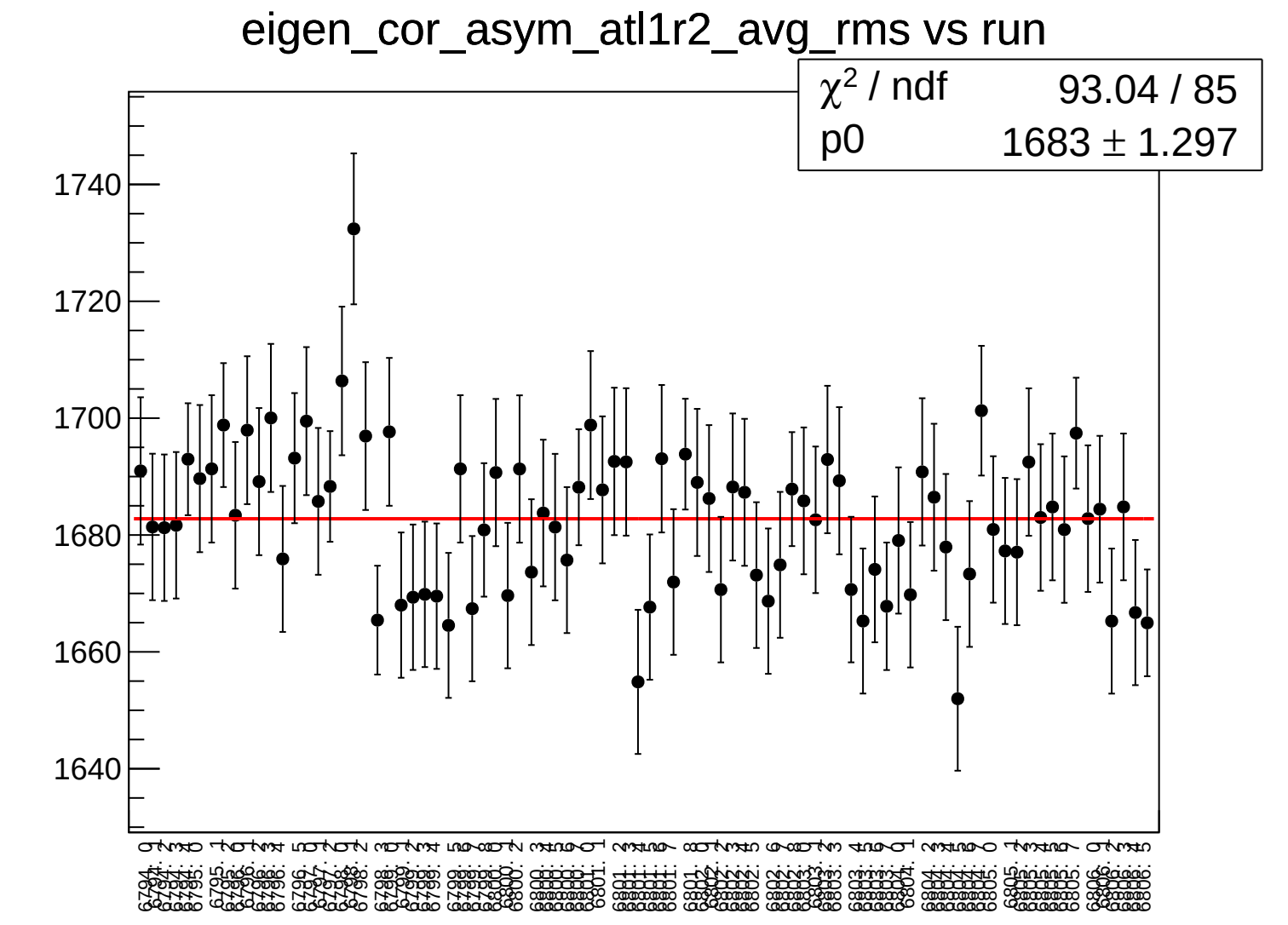

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.57 / 85
p0 −3099 ± 3985
100
50
0
−50
−100
−150
pull
Entries 86
Mean −93.27
Std Dev 0
2
1
0
−1
−2
−3

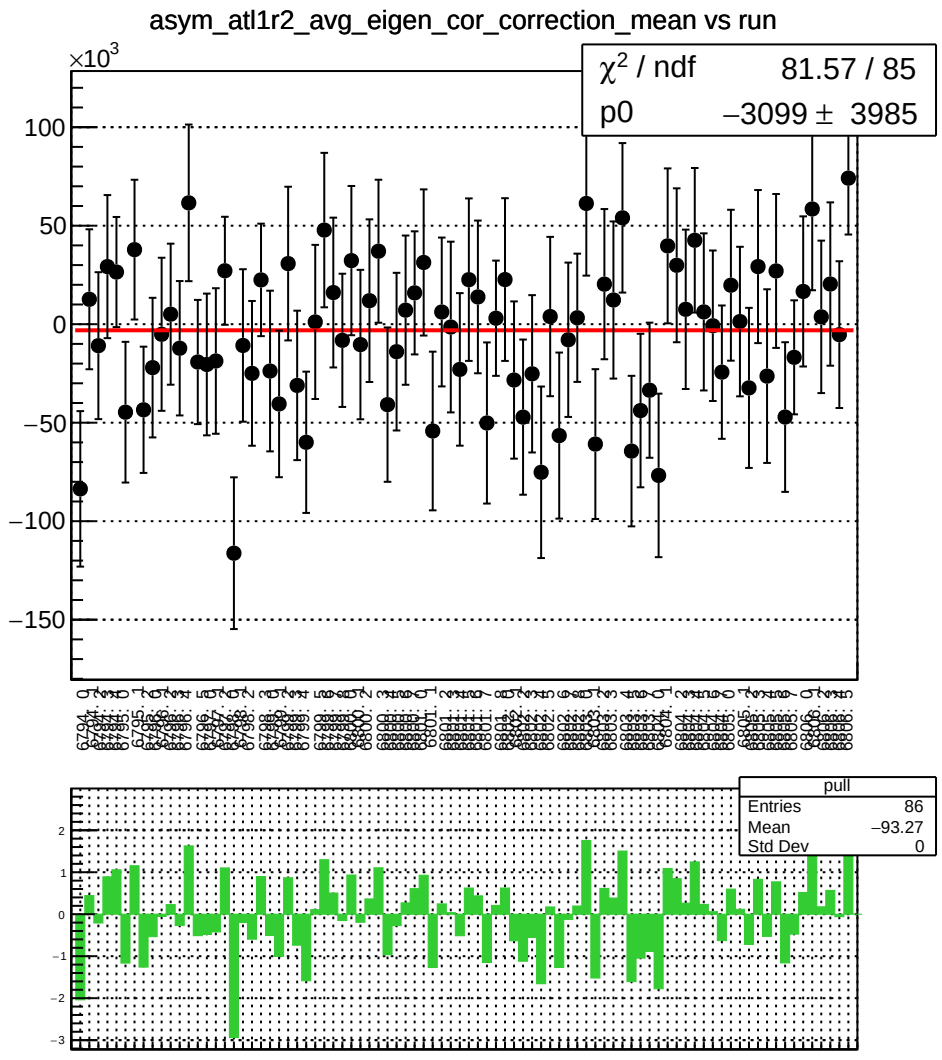

pull1D
Entries 86
Mean −0.02394
Std Dev 0.9736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

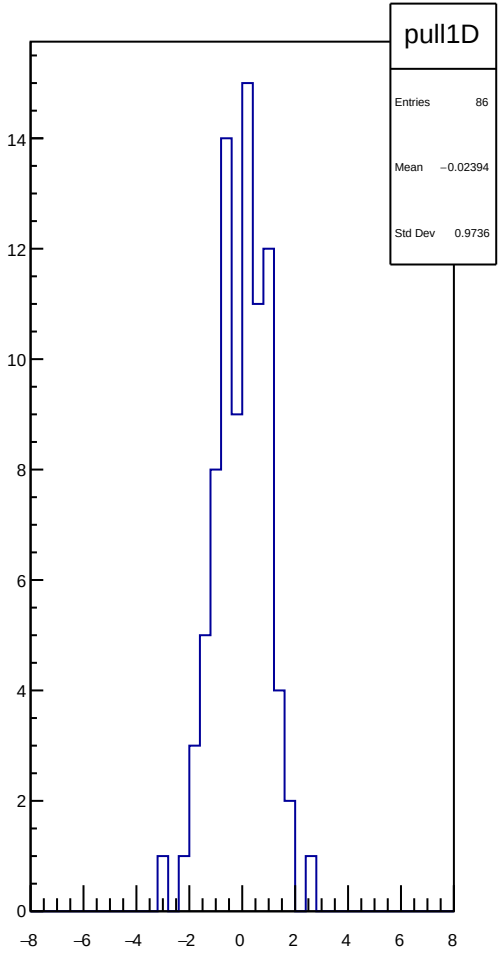

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3985 / 85
p0 3651 ± 2.818
4200
4000
3800
3600
3400
3200

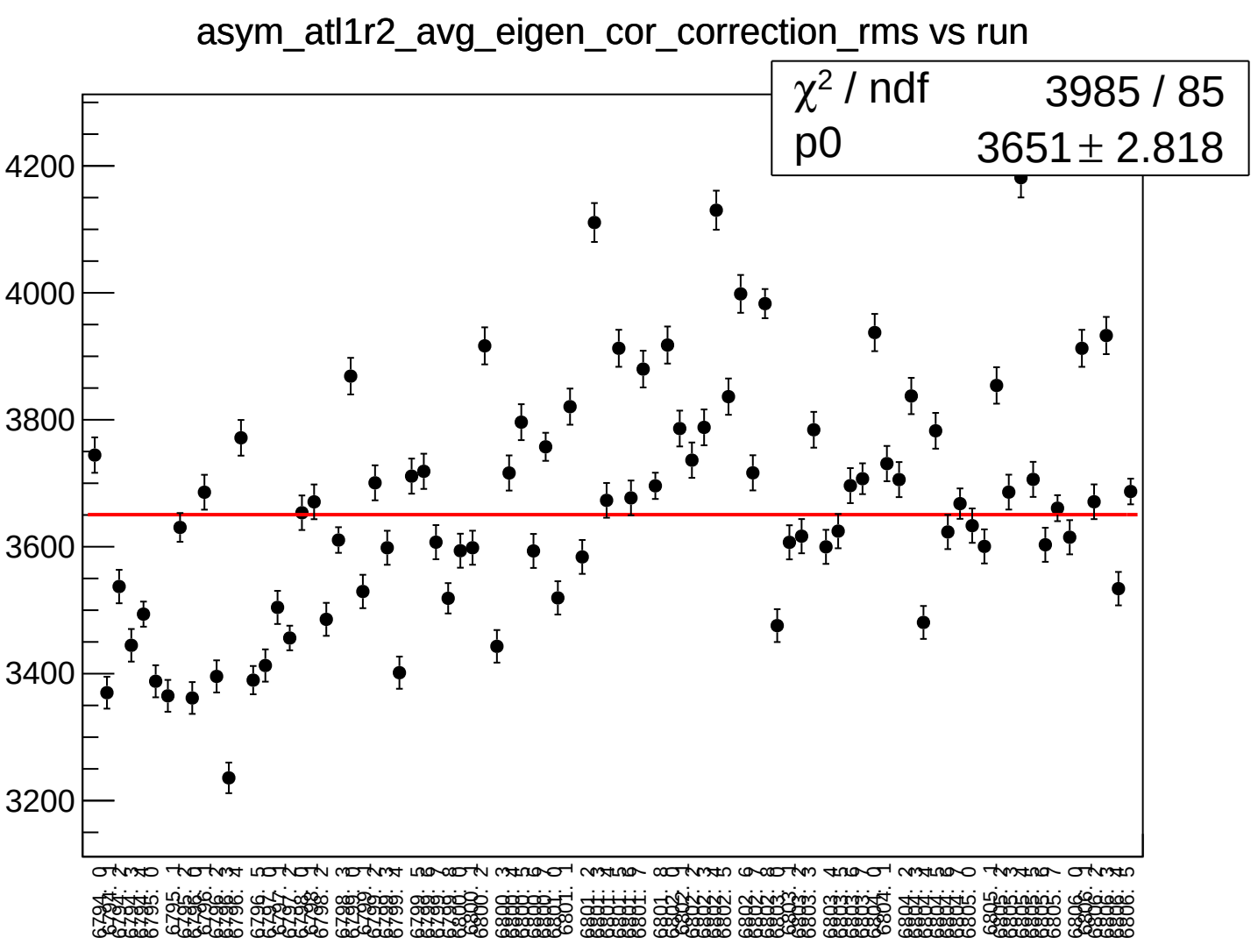

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 84.97 / 85
p0 −1359 ± 1835
pull
Entries 86
Mean −120.7
Std Dev 0

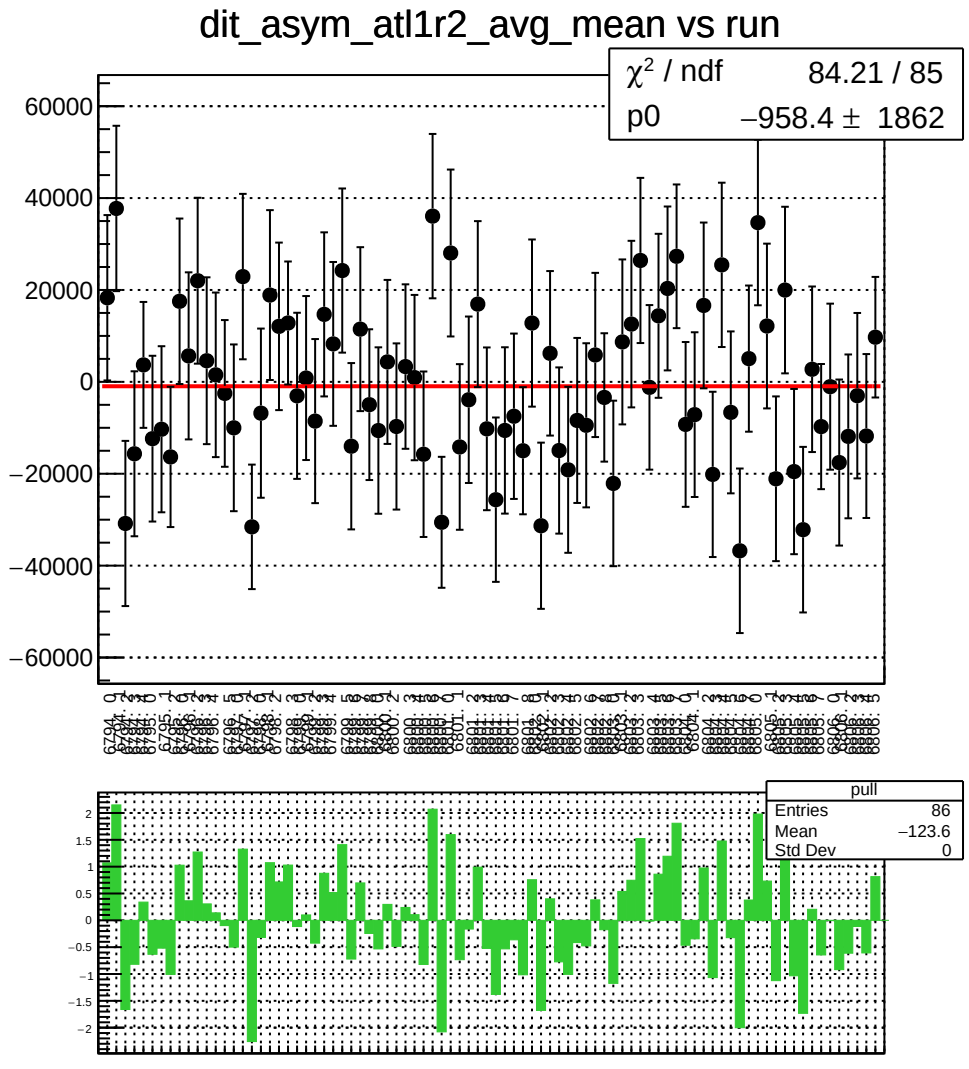

pull1D
Entries 86
Mean 0.01406
Std Dev 0.9939

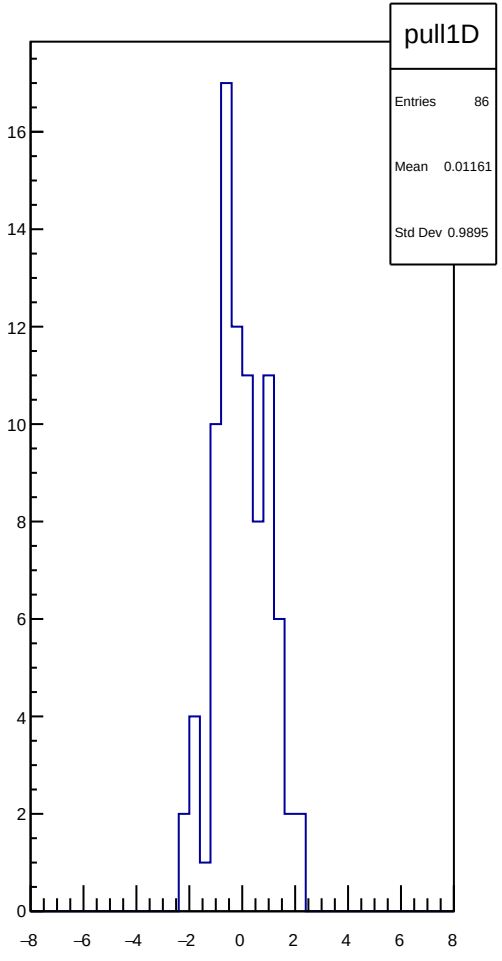

eigen_cor_asym_atl1r2_avg_rms vs run
χ^2 / ndf 93.04 / 85
p0 1683 ± 1.297
1740
1720
1700
1680
1660
1640

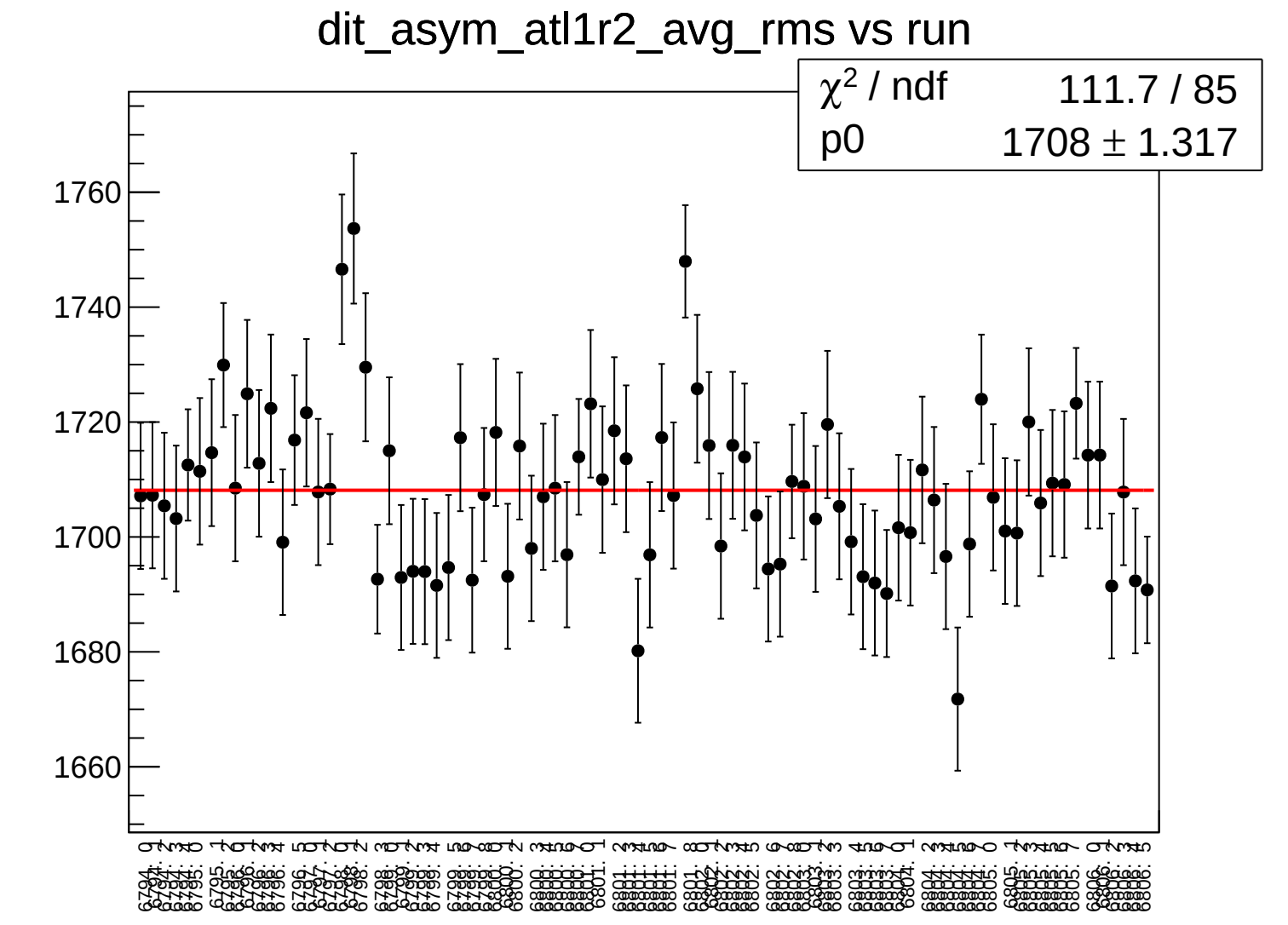

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.57 / 85
p0 −3099 ± 3985
100
50
0
−50
−100
−150
pull
Entries 86
Mean −93.27
Std Dev 0
2
1
0
−1
−2
−3

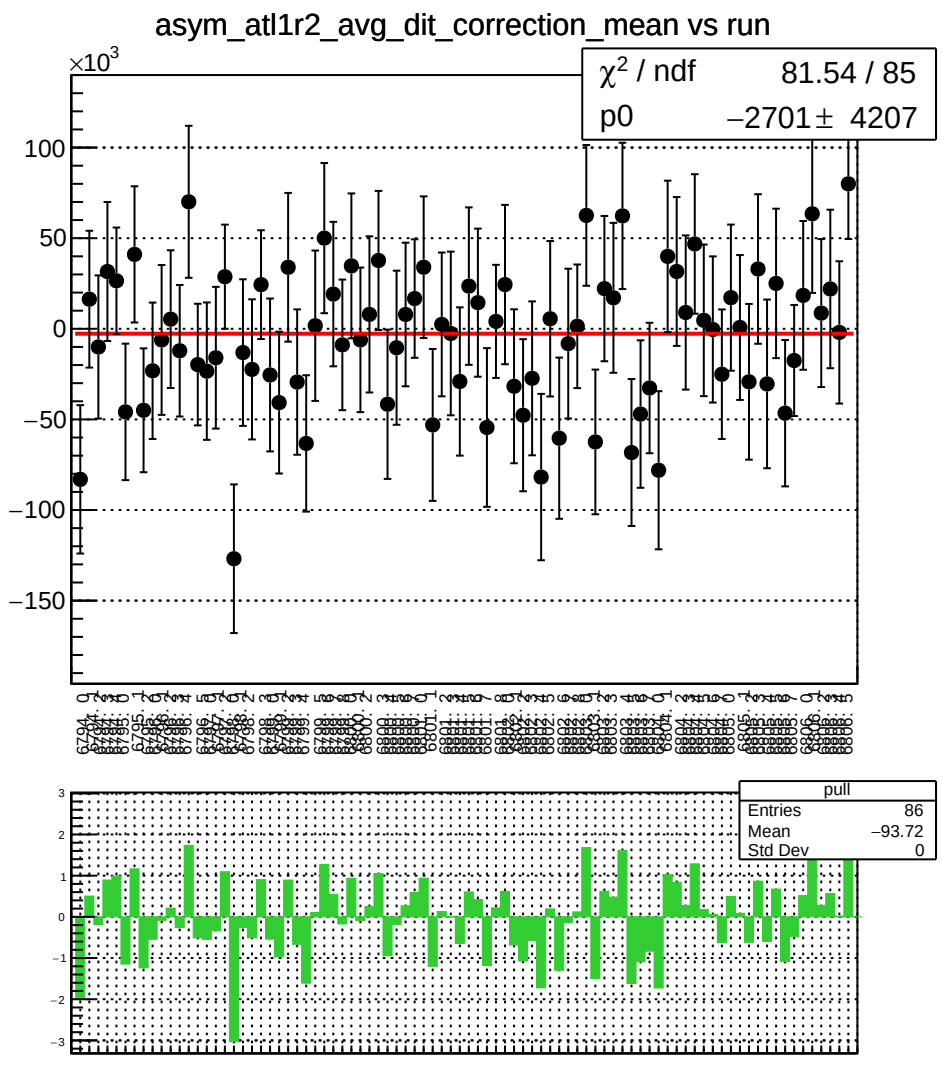

pull1D
Entries 86
Mean −0.02394
Std Dev 0.9736
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

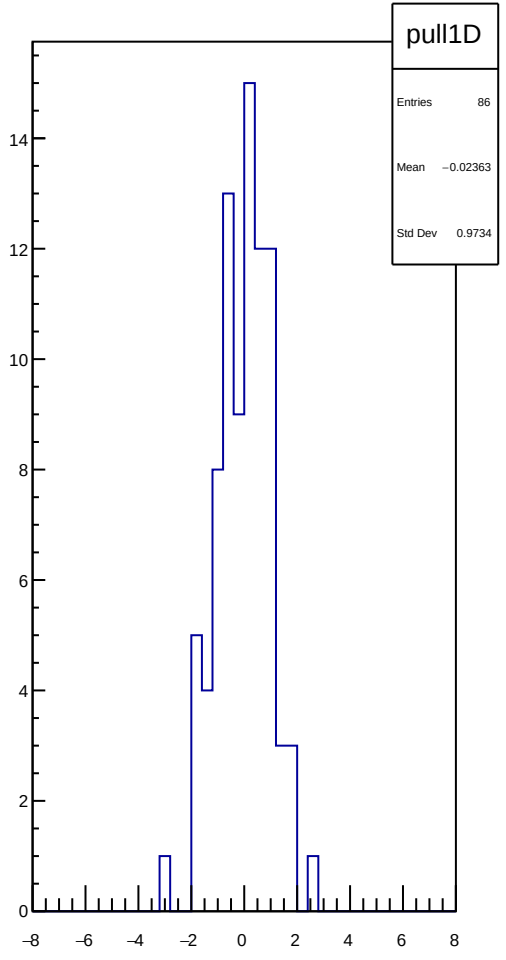

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3985 / 85
p0 3651 ± 2.818
4200
4000
3800
3600
3400
3200

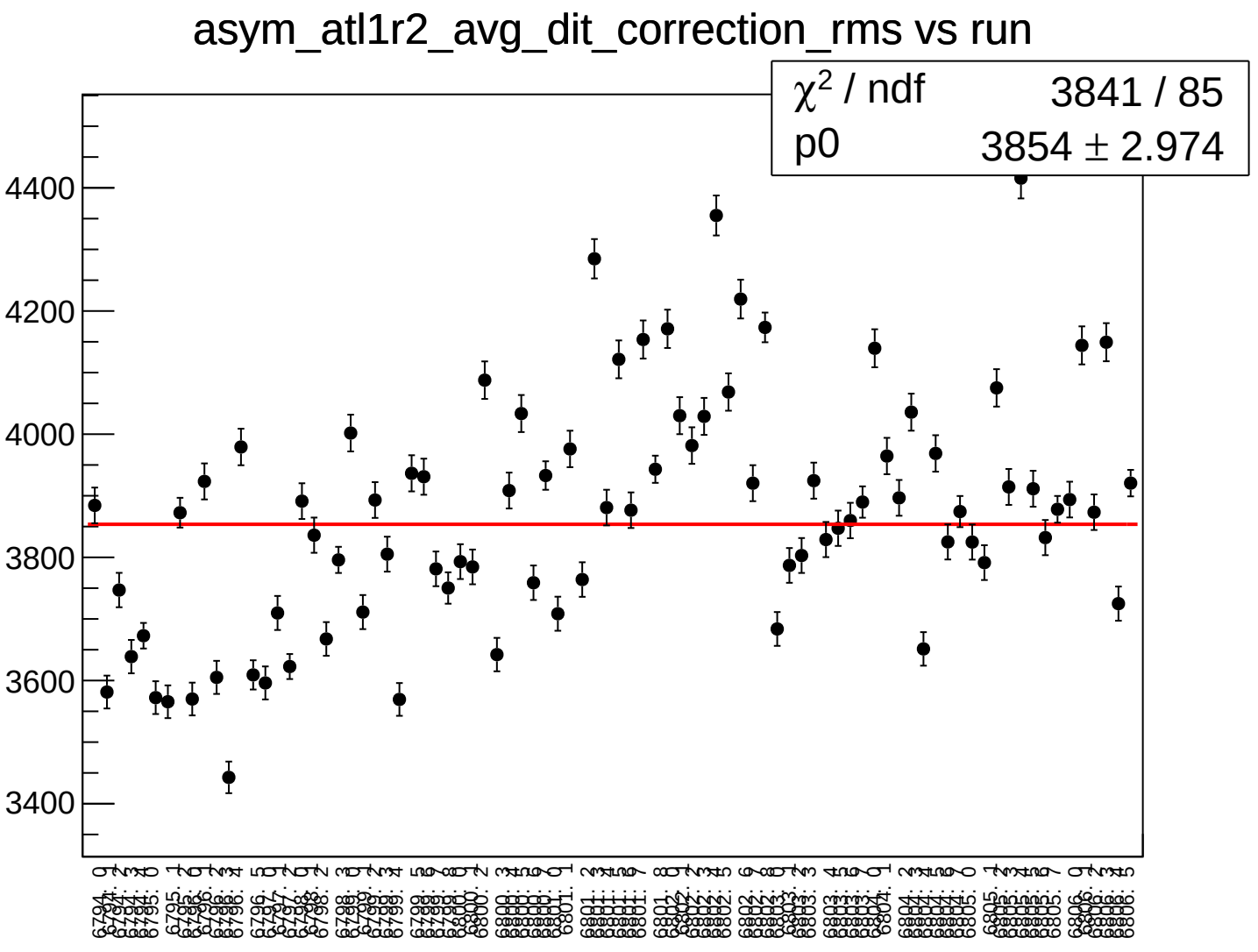

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.21 / 85
p0 −958.4 ± 1862
pull
Entries 86
Mean −123.6
Std Dev 0

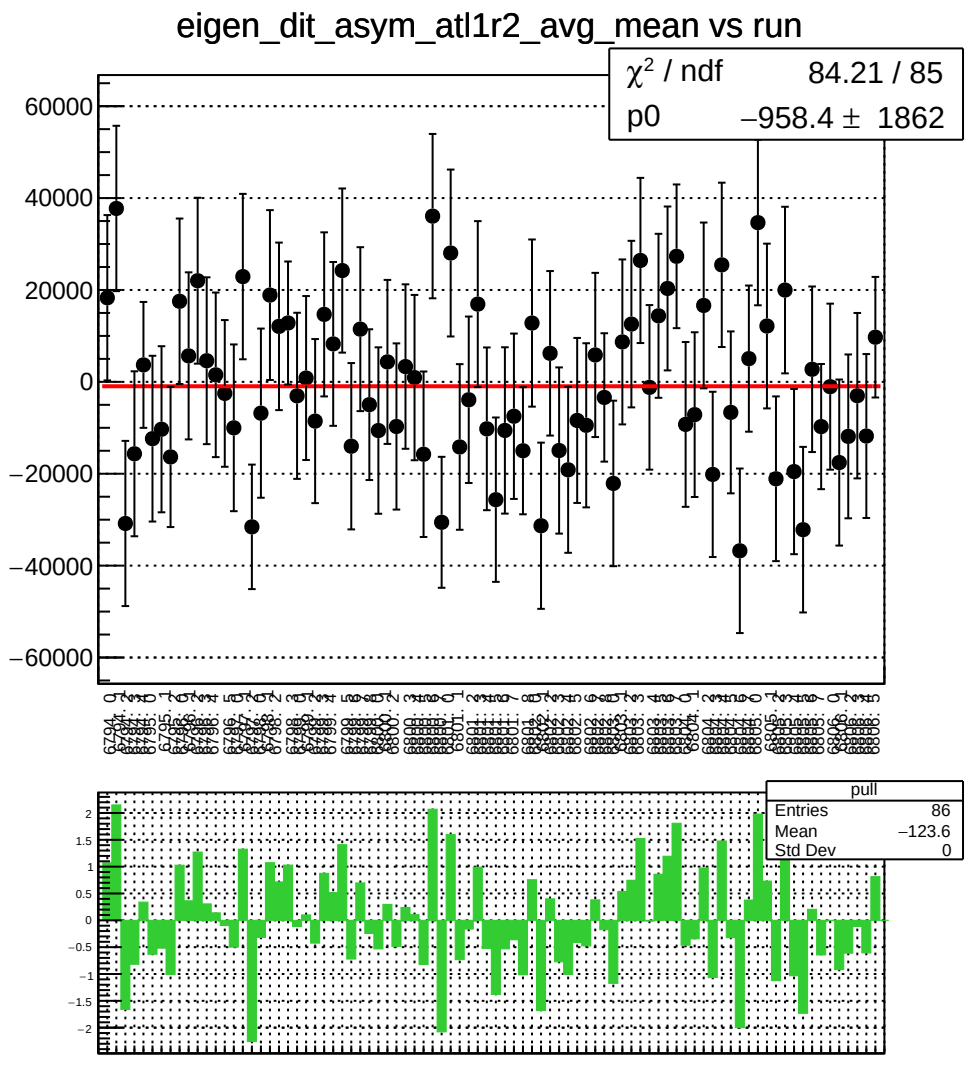

pull1D
Entries 86
Mean 0.01161
Std Dev 0.9895

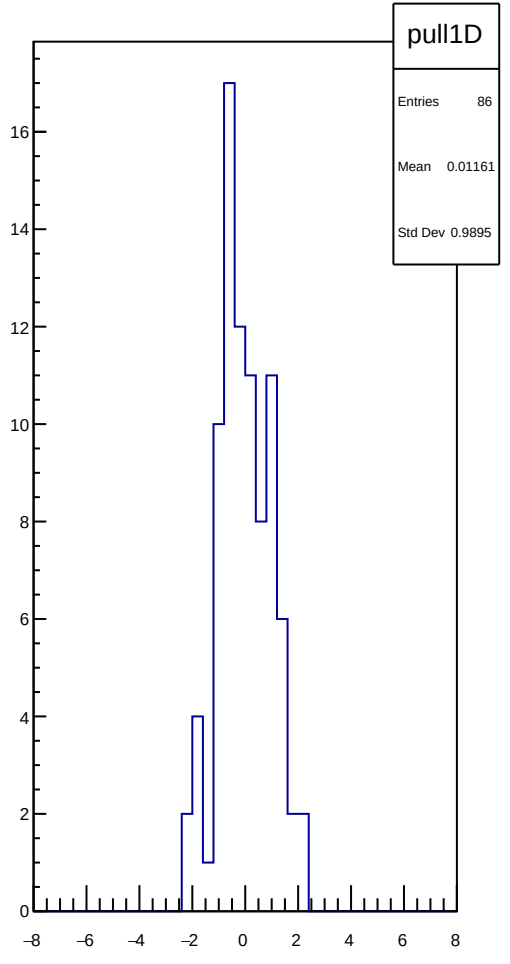

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 111.7 / 85
p0 1708 ± 1.317
1760
1740
1720
1700
1680
1660

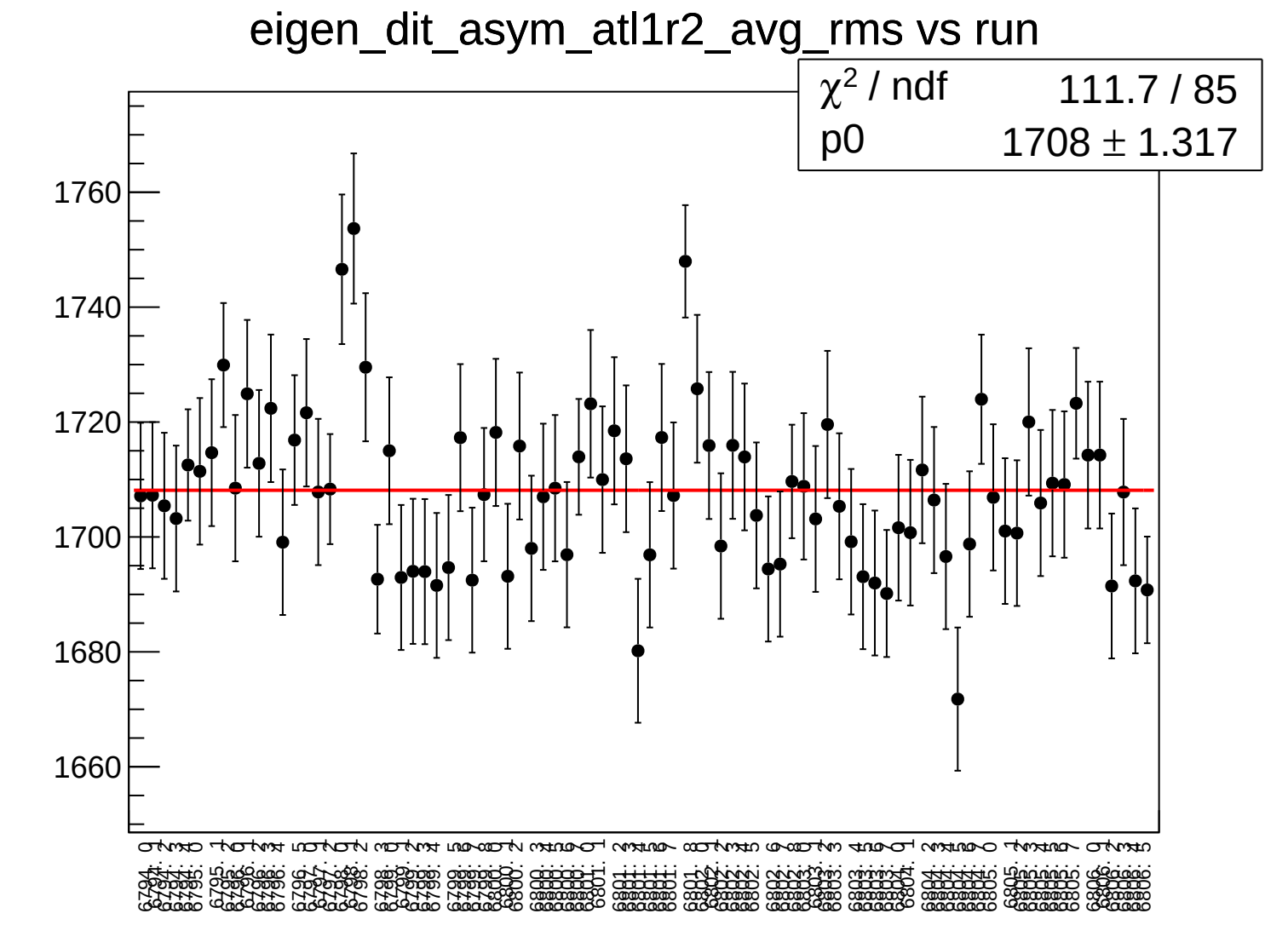

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.54 / 85
p0 −2701 ± 4207
100
50
0
−50
−100
−150
pull
Entries 86
Mean −93.72
Std Dev 0
3
2
1
0
−1
−2
−3

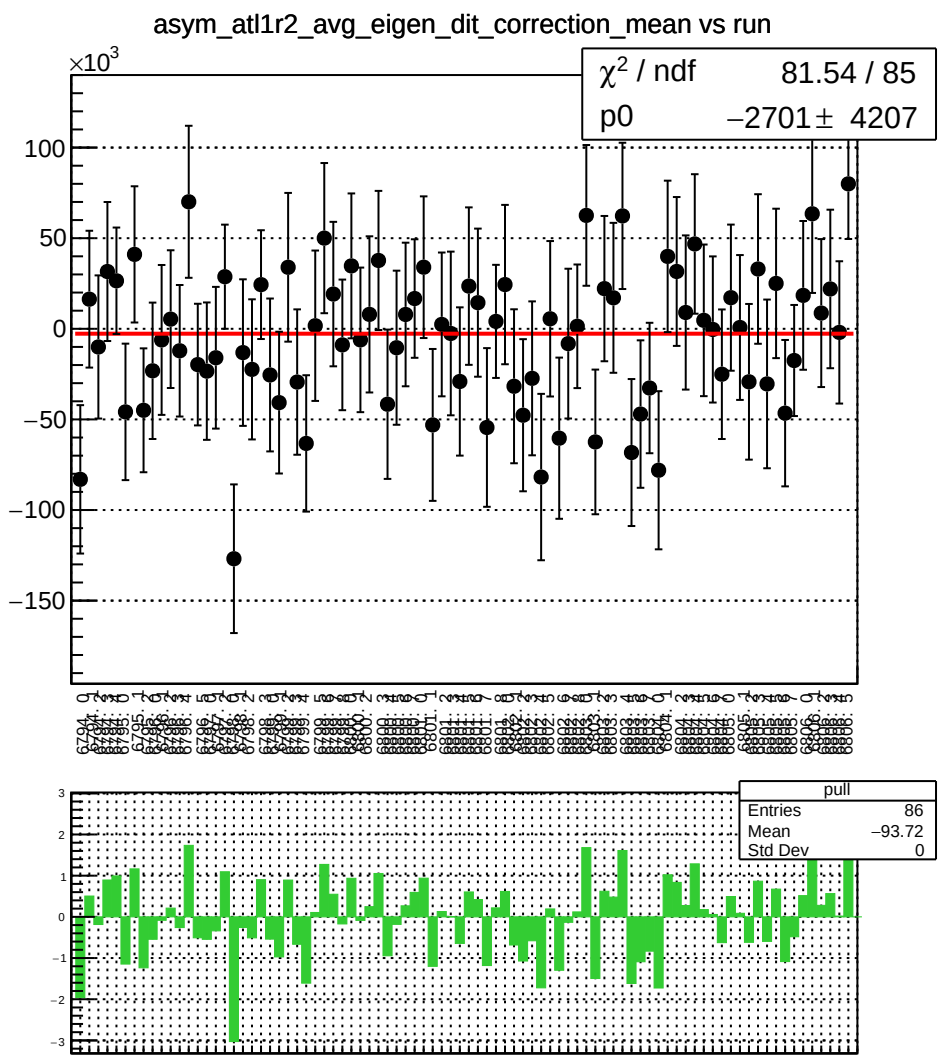

pull1D
Entries 86
Mean −0.02363
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

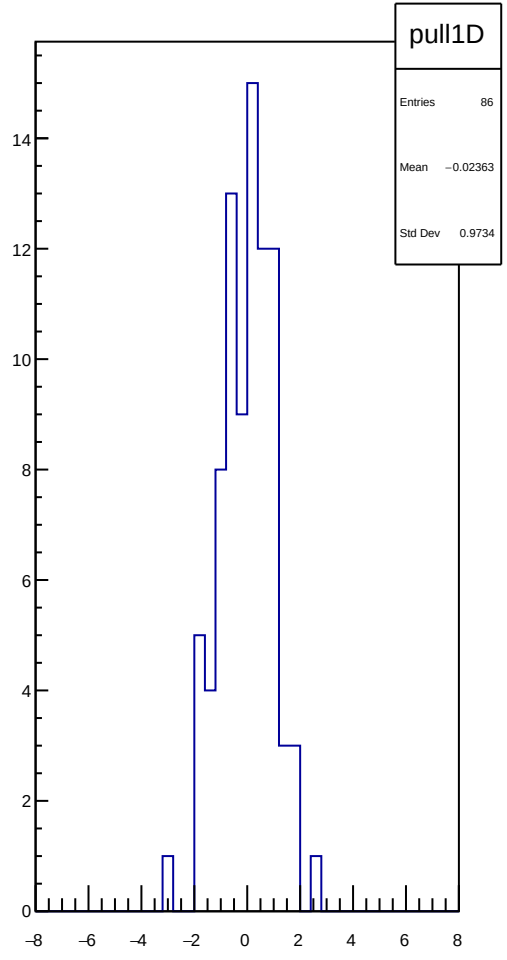

asym_atl1r2_avg_dit_correction_rms vs run
χ^2 / ndf 3841 / 85
p0 3854 ± 2.974
4400
4200
4000
3800
3600
3400

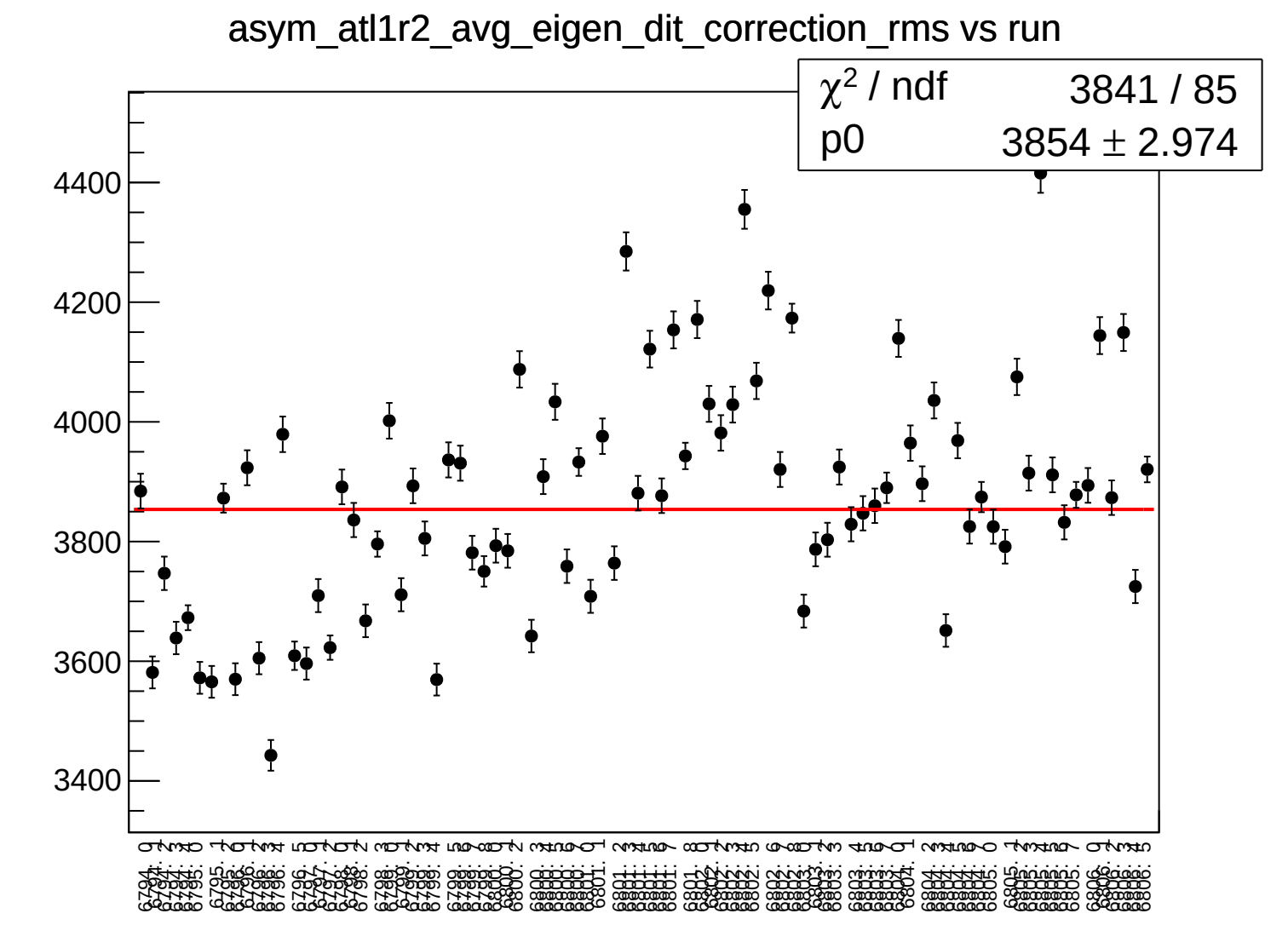

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 84.21 / 85
p0 −958.4 ± 1862
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −123.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

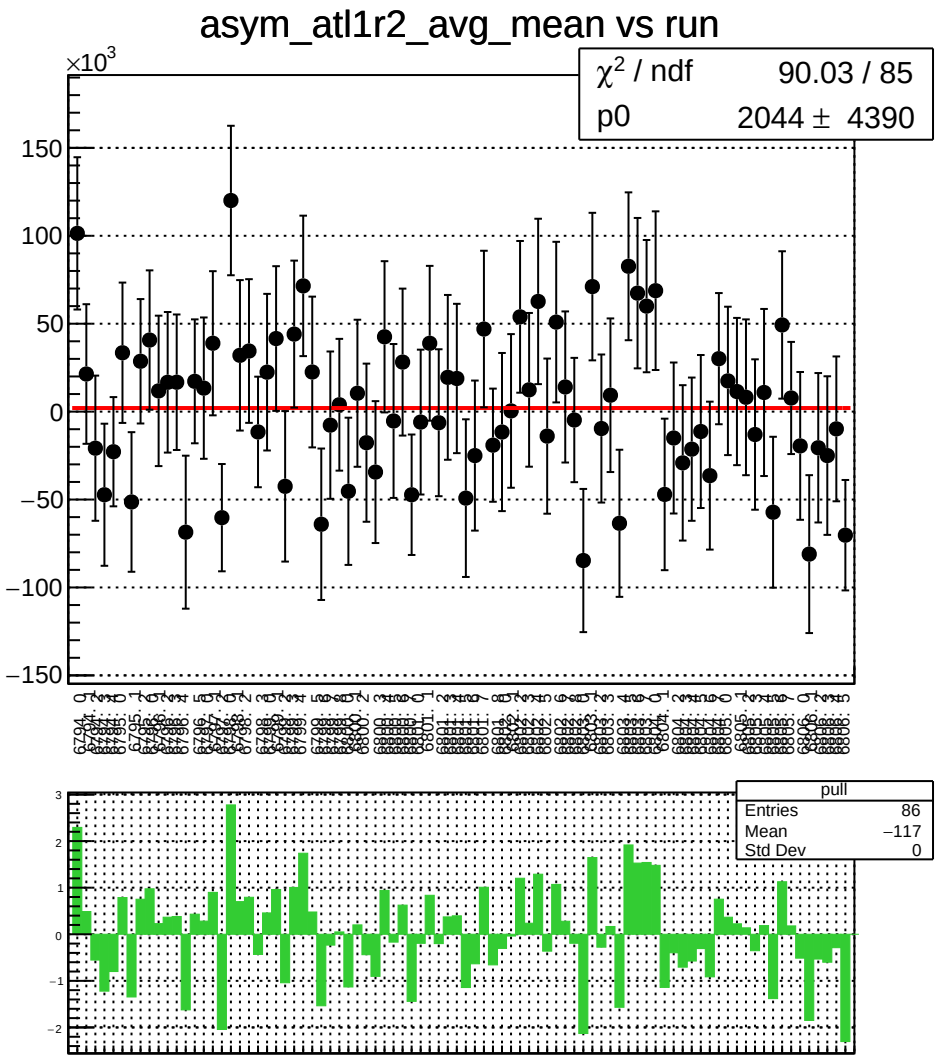

pull1D
Entries 86
Mean 0.01161
Std Dev 0.9895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

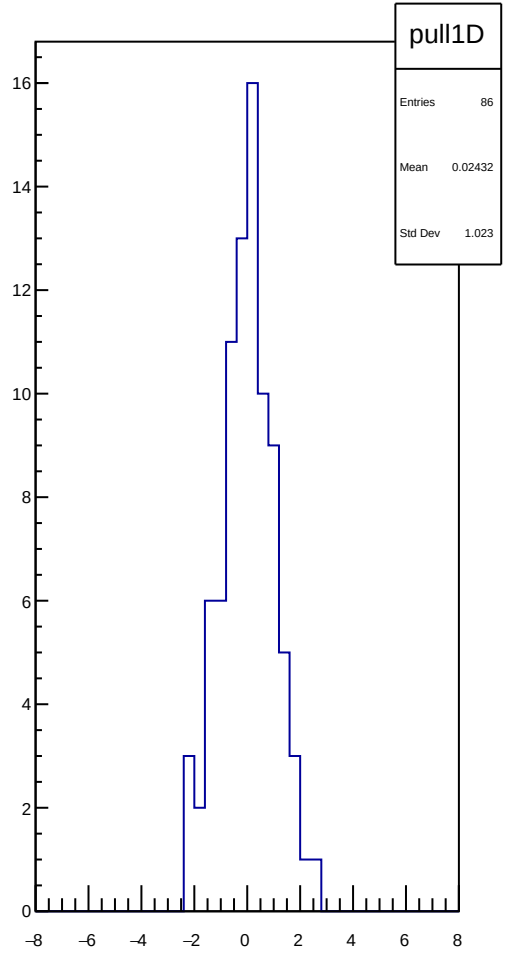

eigen_dit_asym_atl1r2_avg_rms vs run
χ^2 / ndf 111.7 / 85
p0 1708 ± 1.317
1760
1740
1720
1700
1680
1660

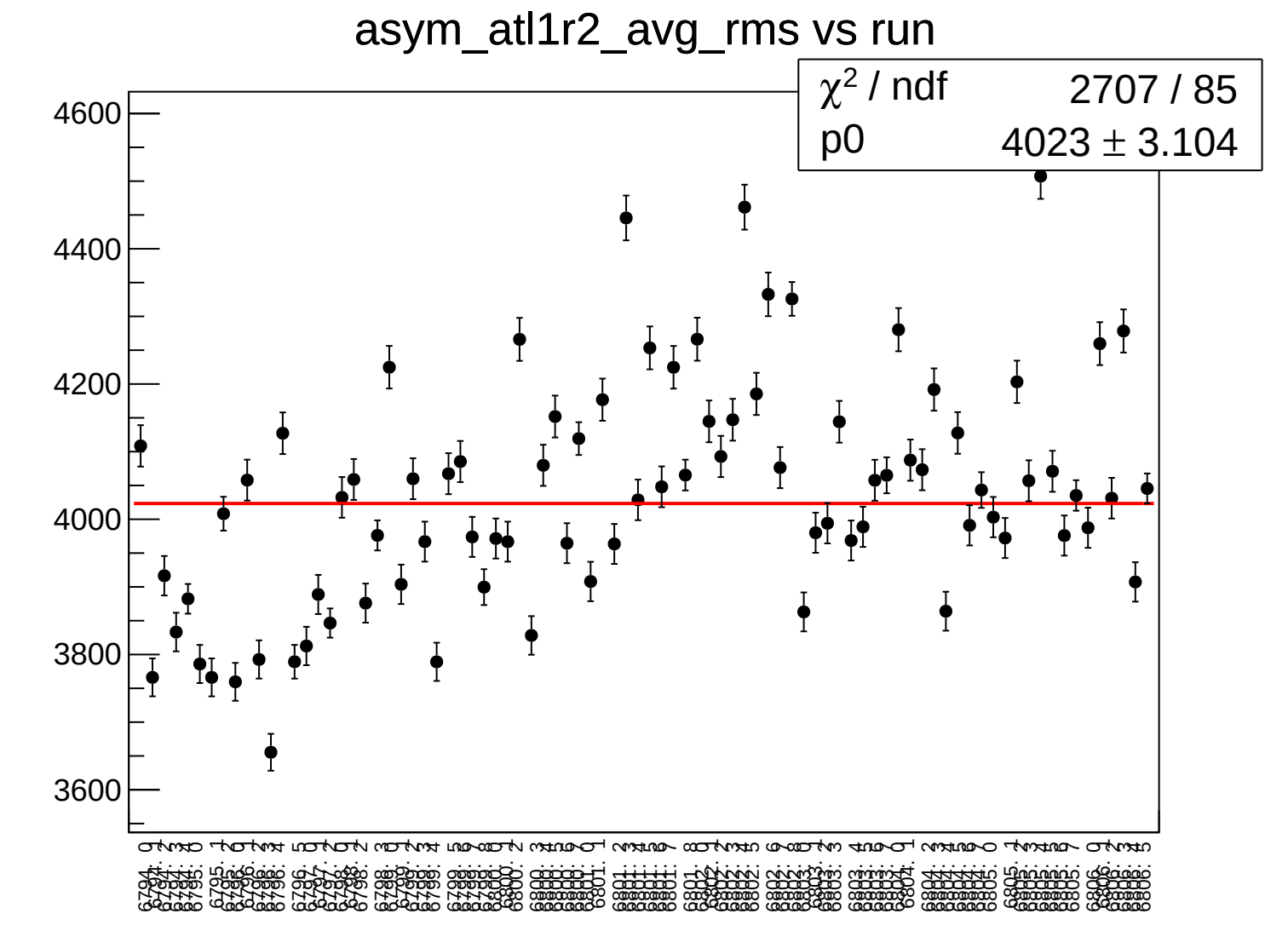

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 81.54 / 85
p0 −2701 ± 4207
100
50
0
−50
−100
−150
pull
Entries 86
Mean −93.72
Std Dev 0
3
2
1
0
−1
−2
−3

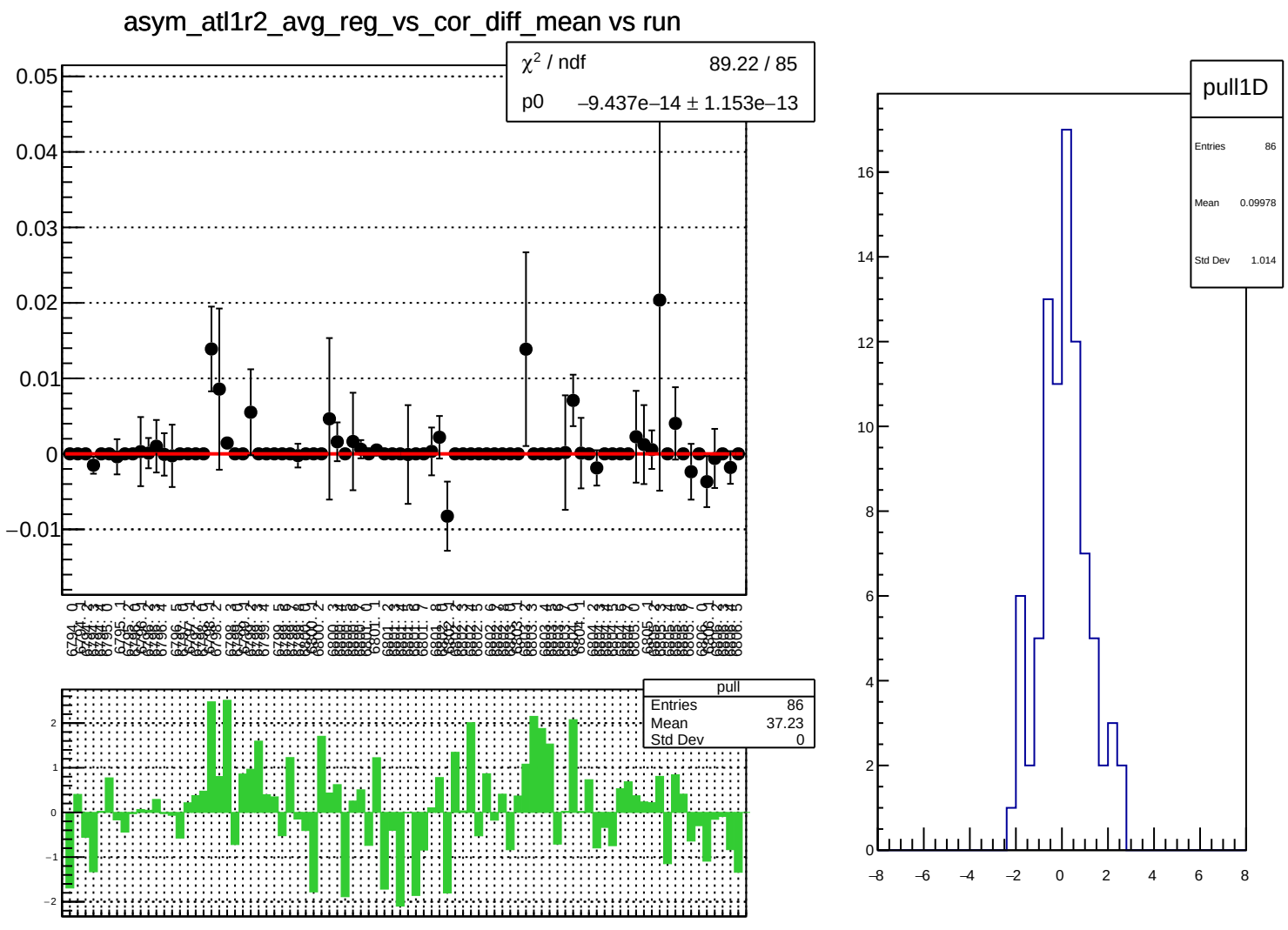

pull1D
Entries 86
Mean −0.02363
Std Dev 0.9734
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

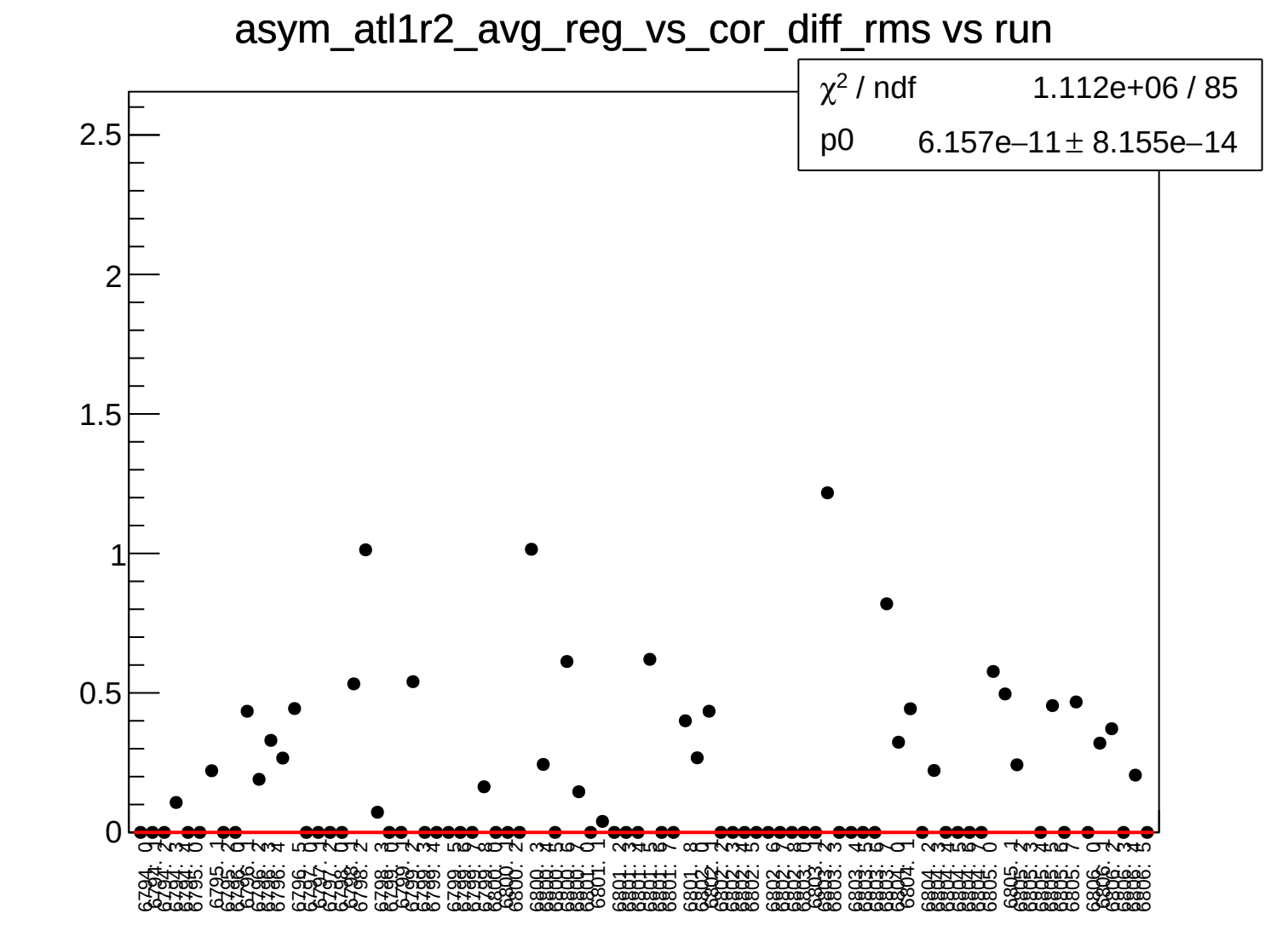

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3841 / 85
p0 3854 ± 2.974
4400
4200
4000
3800
3600
3400

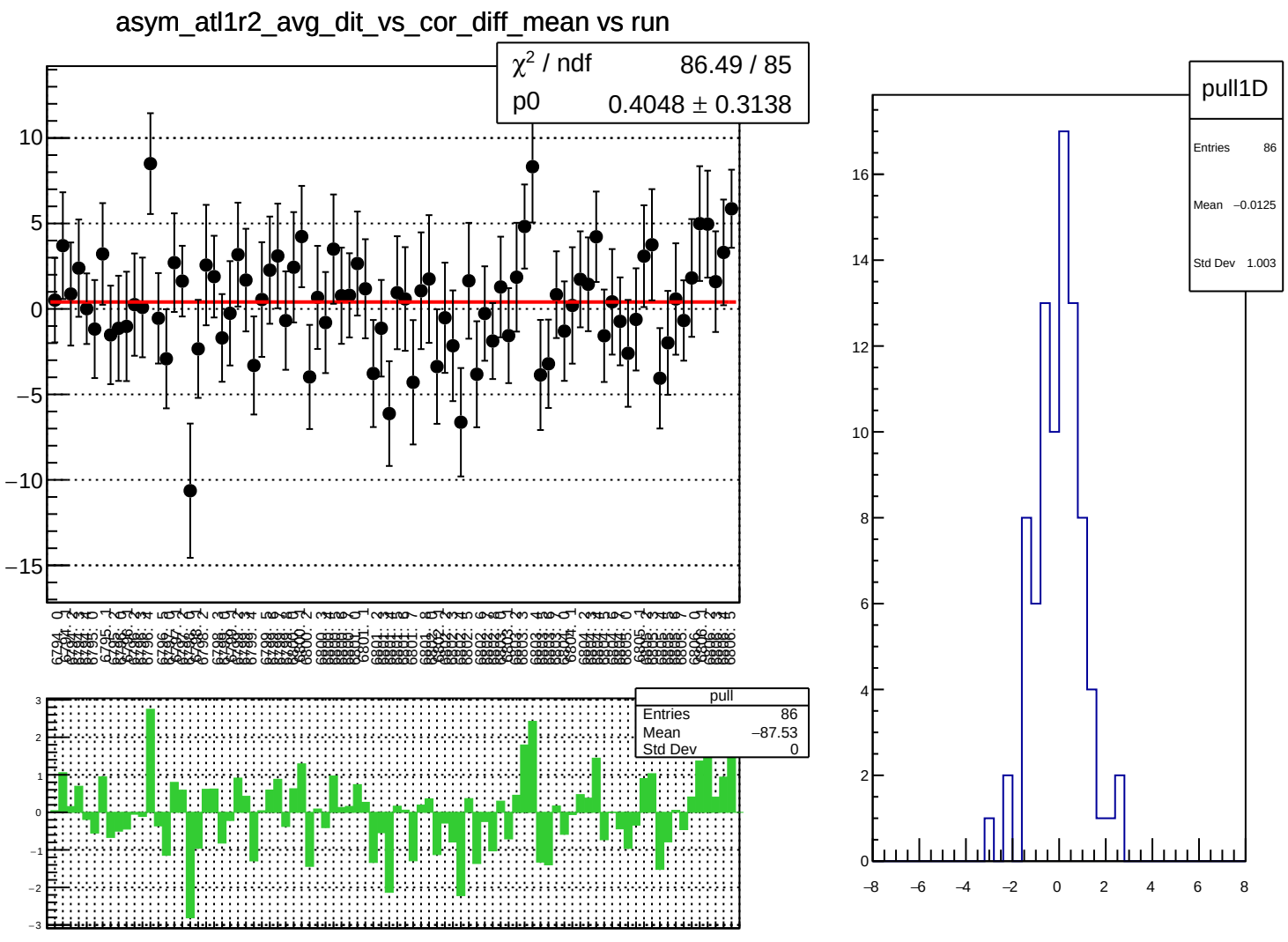

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 90.03 / 85
p0 2044 ± 4390
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −117
Std Dev 0
3
2
1
0
−1
−2

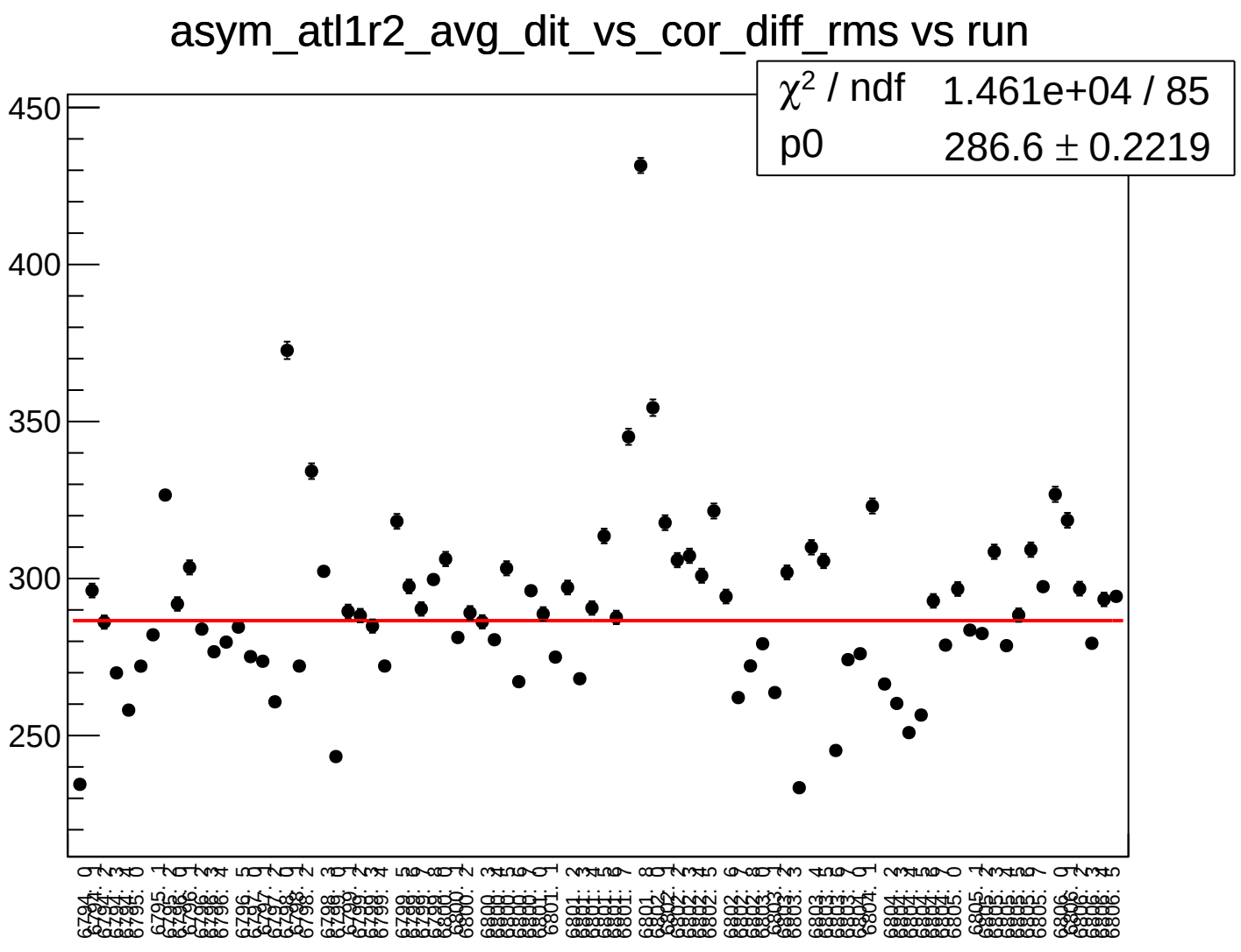

pull1D
Entries 86
Mean 0.02432
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

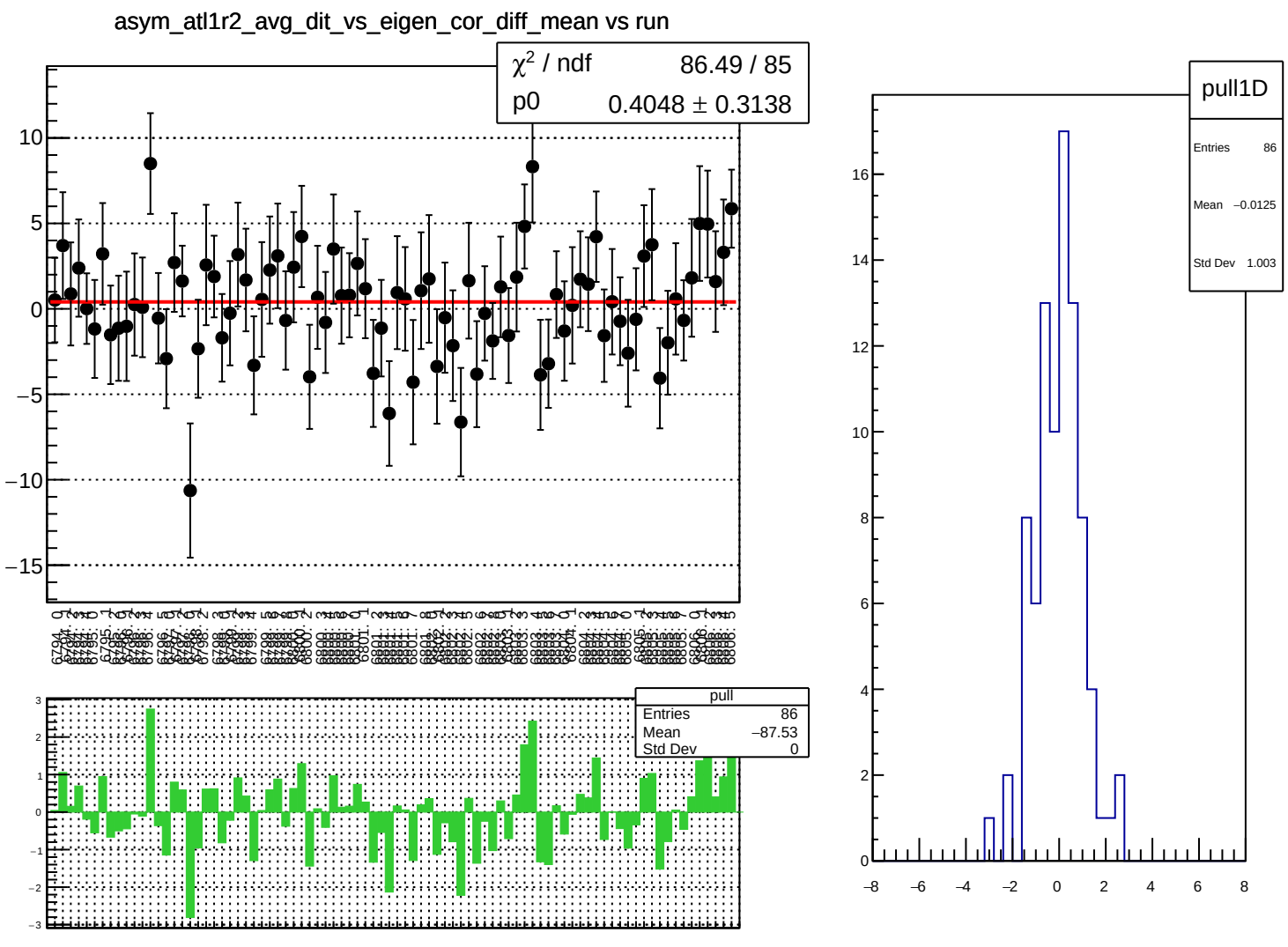

asym_atl1r2_avg_rms vs run
χ² / ndf 2707 / 85
p0 4023 ± 3.104
4600
4400
4200
4000
3800
3600

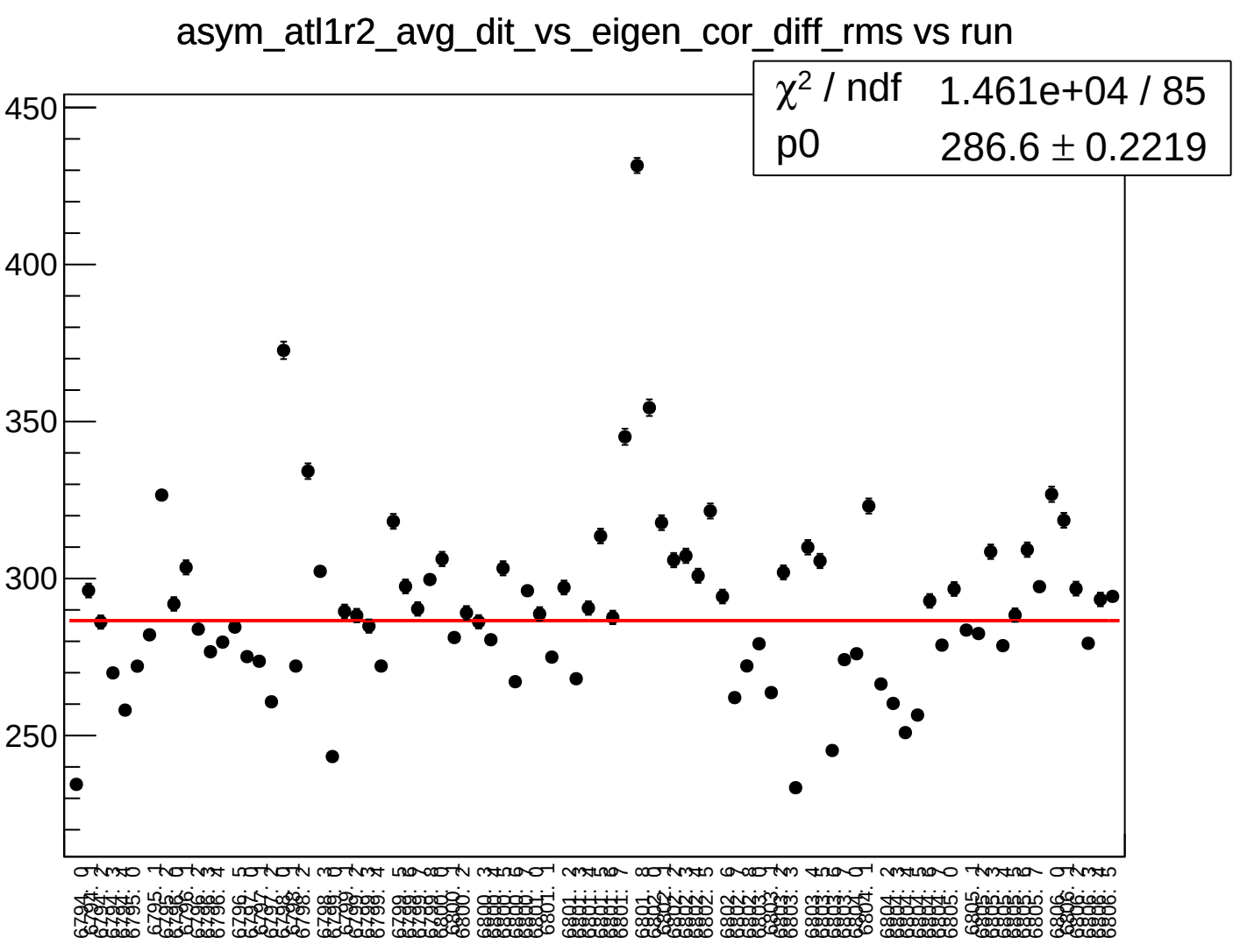

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.22 / 85
p0 −9.437e−14 ± 1.153e−13
pull
Entries 86
Mean 37.23
Std Dev 0
pull1D
Entries 86
Mean 0.09978
Std Dev 1.014

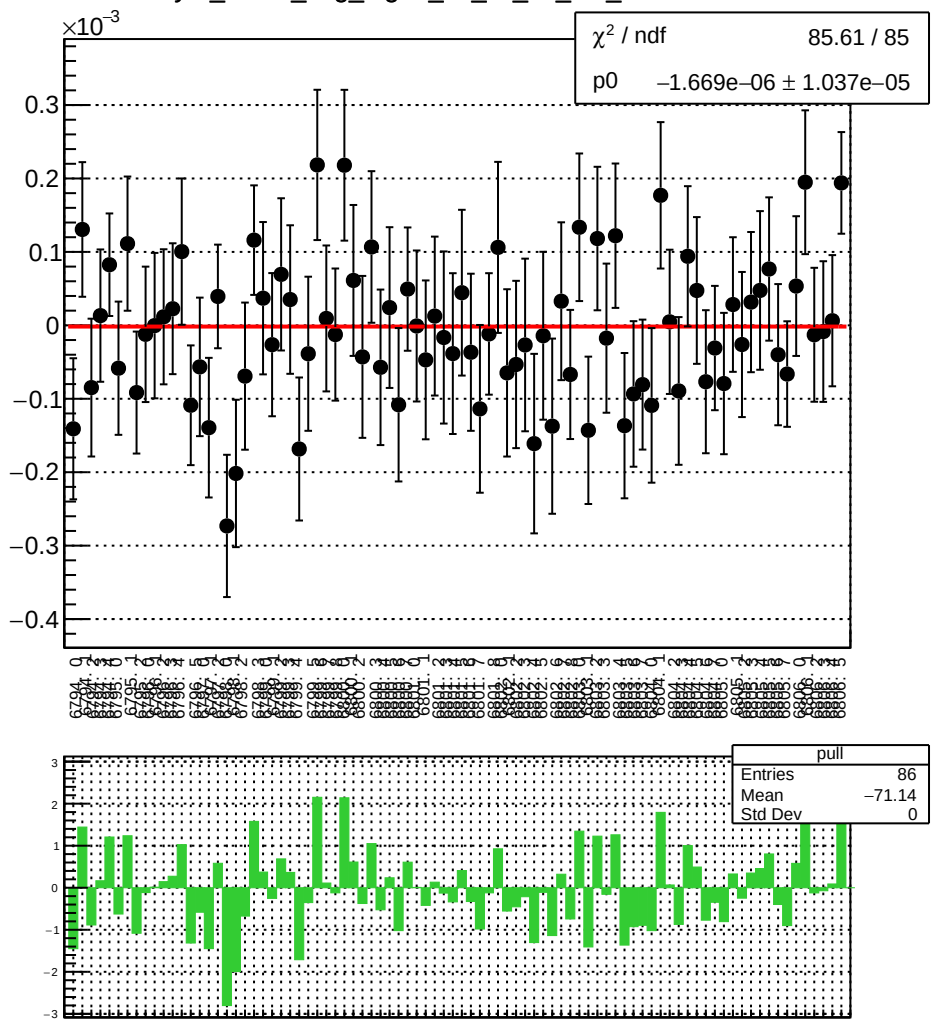

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.112e+06 / 85
p0 6.157e−11 ± 8.155e−14
2.5
2
1.5
1
0.5
0

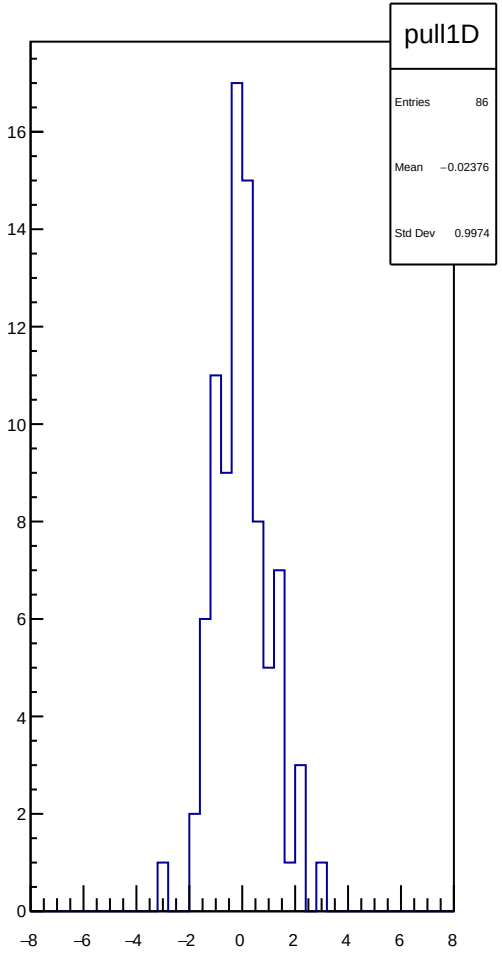

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.49 / 85
p0 0.4048 ± 0.3138
pull
Entries 86
Mean −87.53
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.003

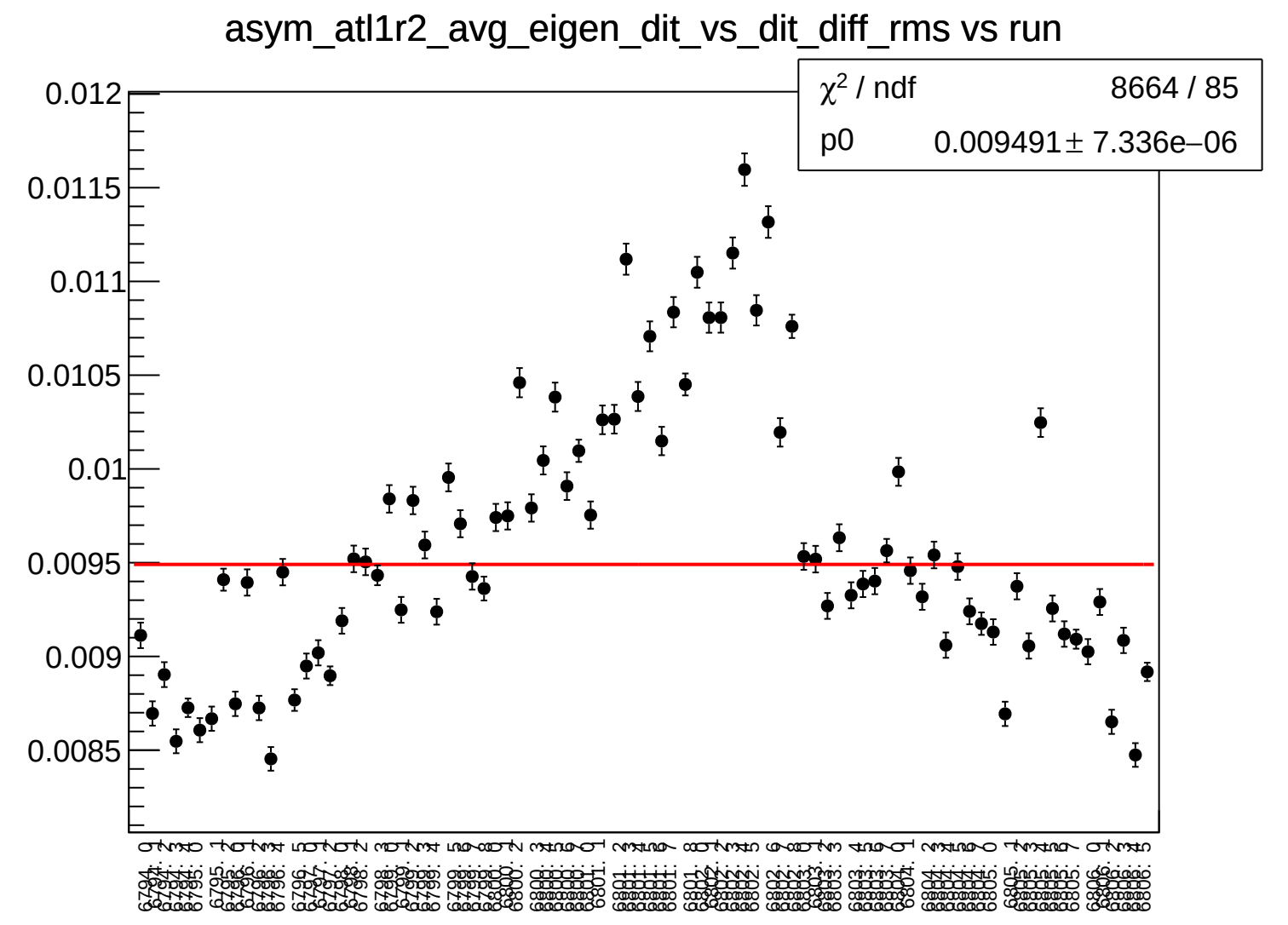

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 85
p0 286.6 ± 0.2219
450
400
350
300
250

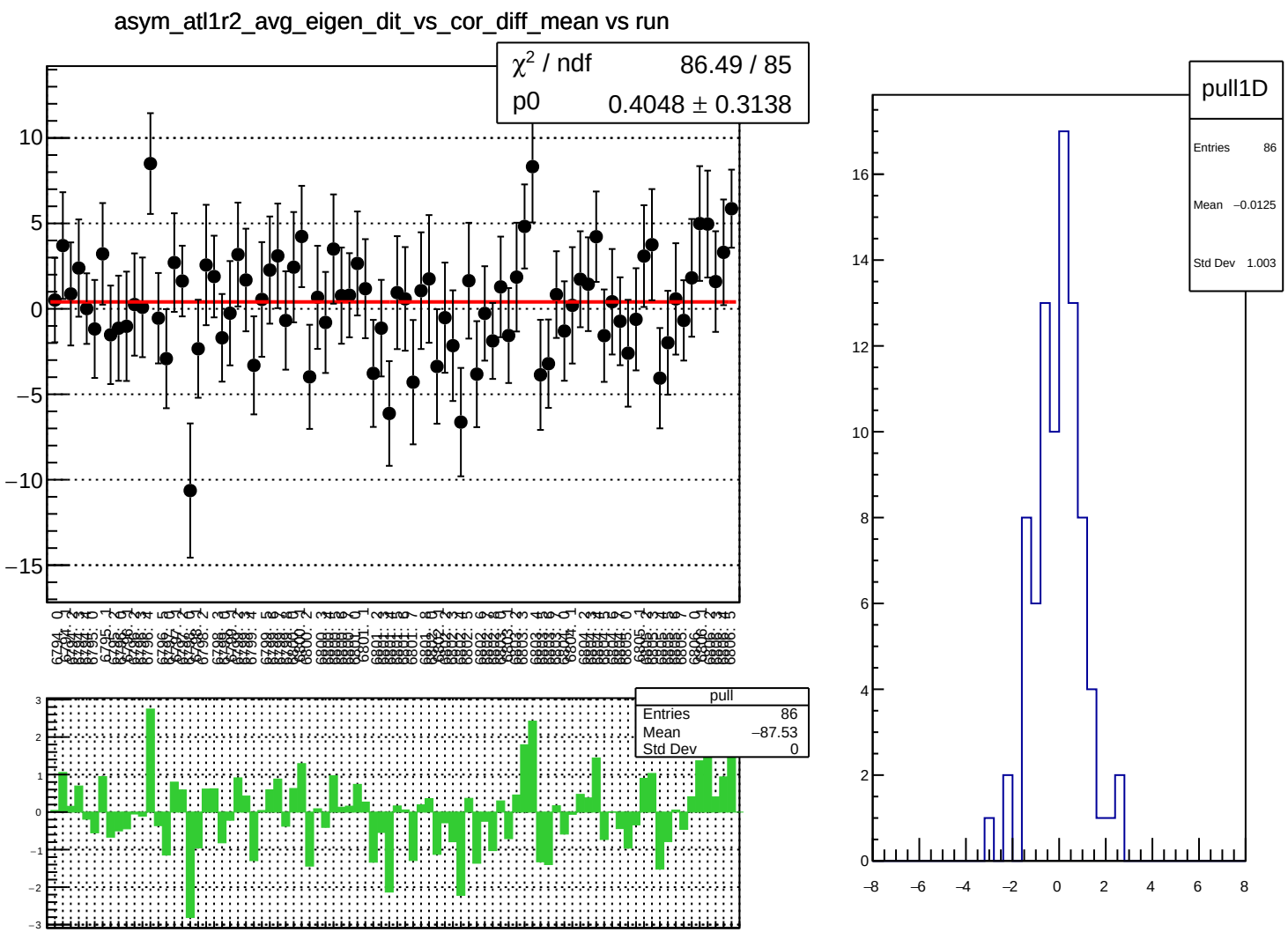

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.49 / 85
p0 0.4048 ± 0.3138
pull
Entries 86
Mean −87.53
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.003

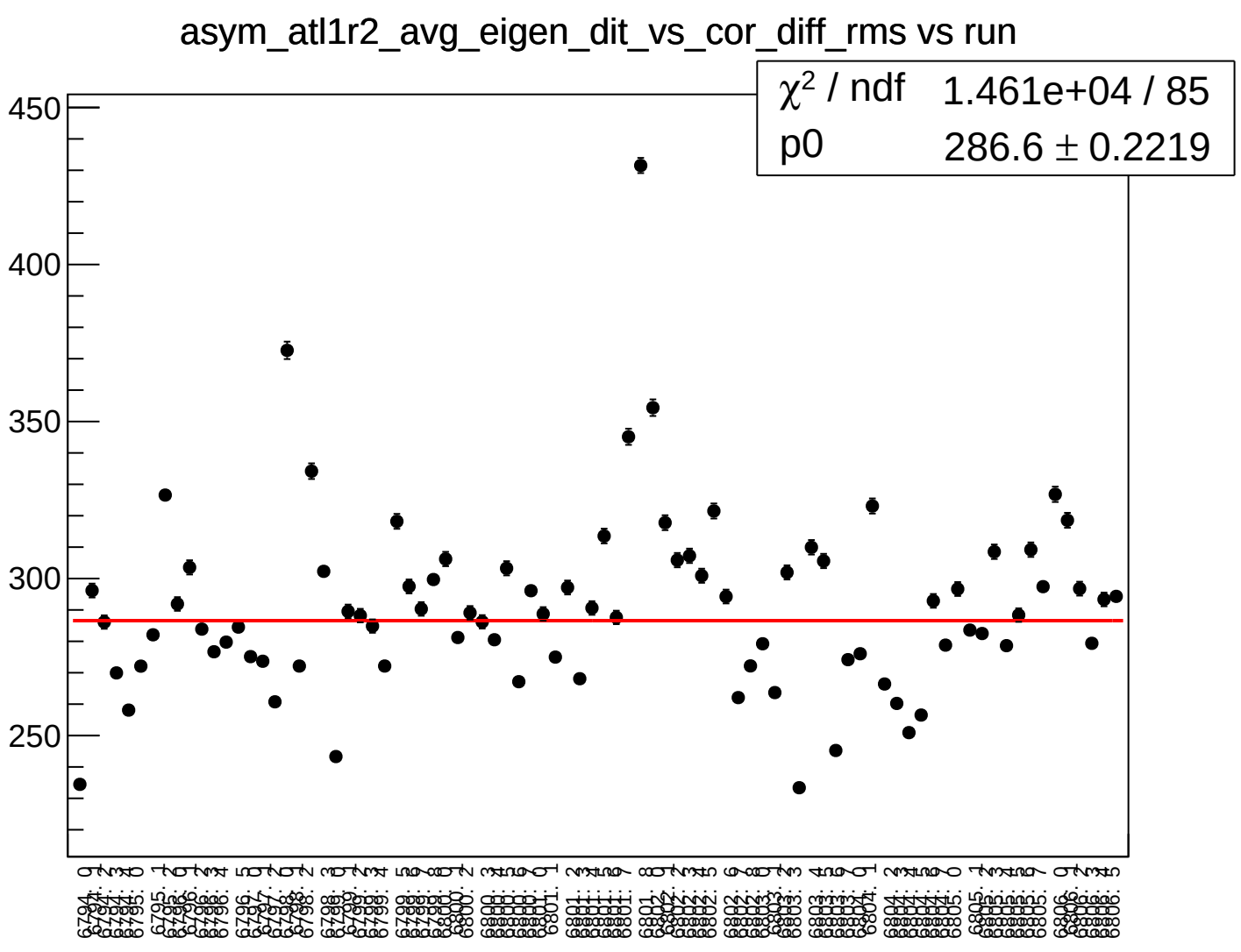

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 85
p0 286.6 ± 0.2219
450
400
350
300
250

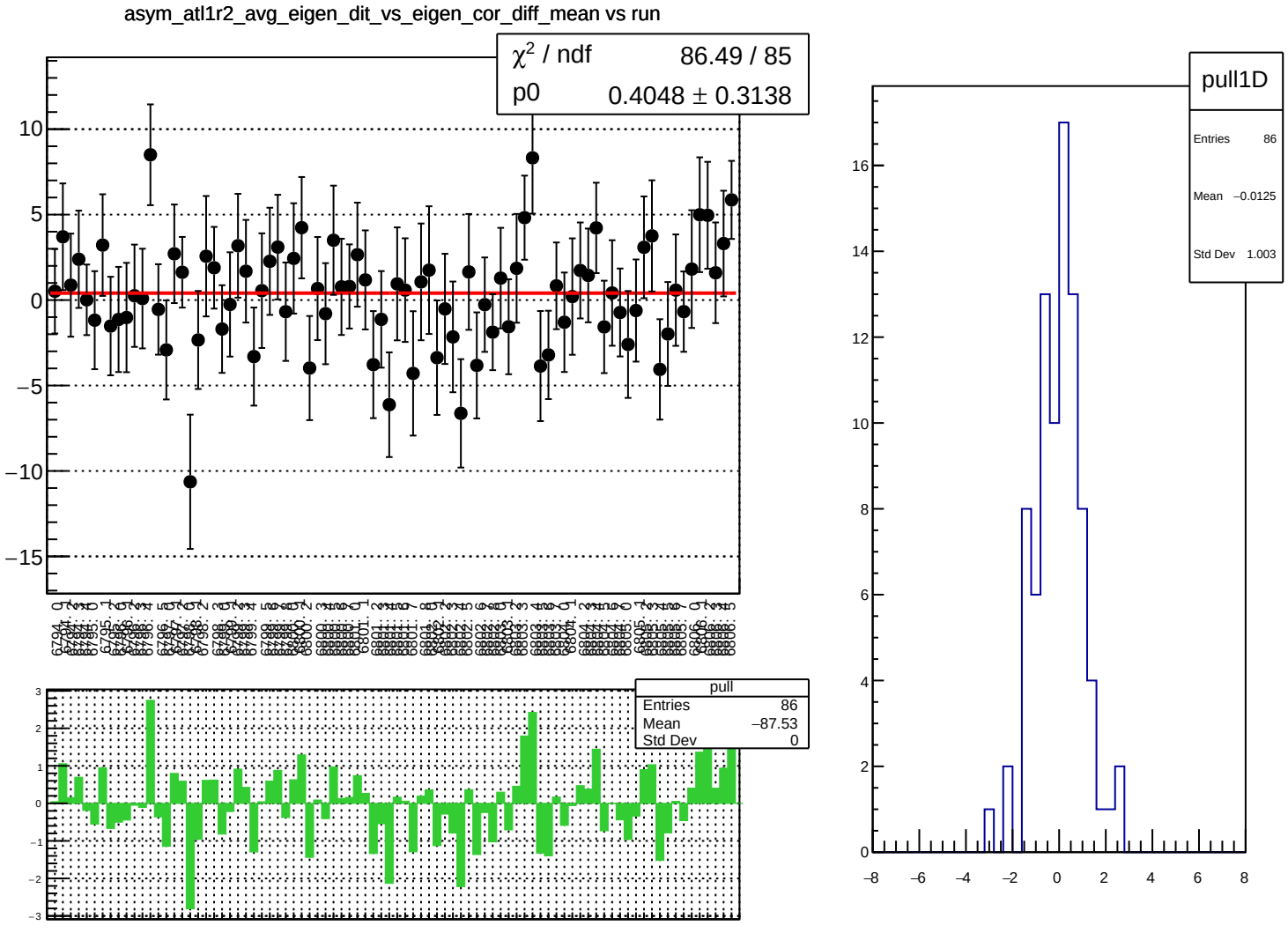

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.61 / 85
p0 −1.669e−06 ± 1.037e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 86
Mean −71.14
Std Dev 0
3
2
1
0
−1
−2
−3

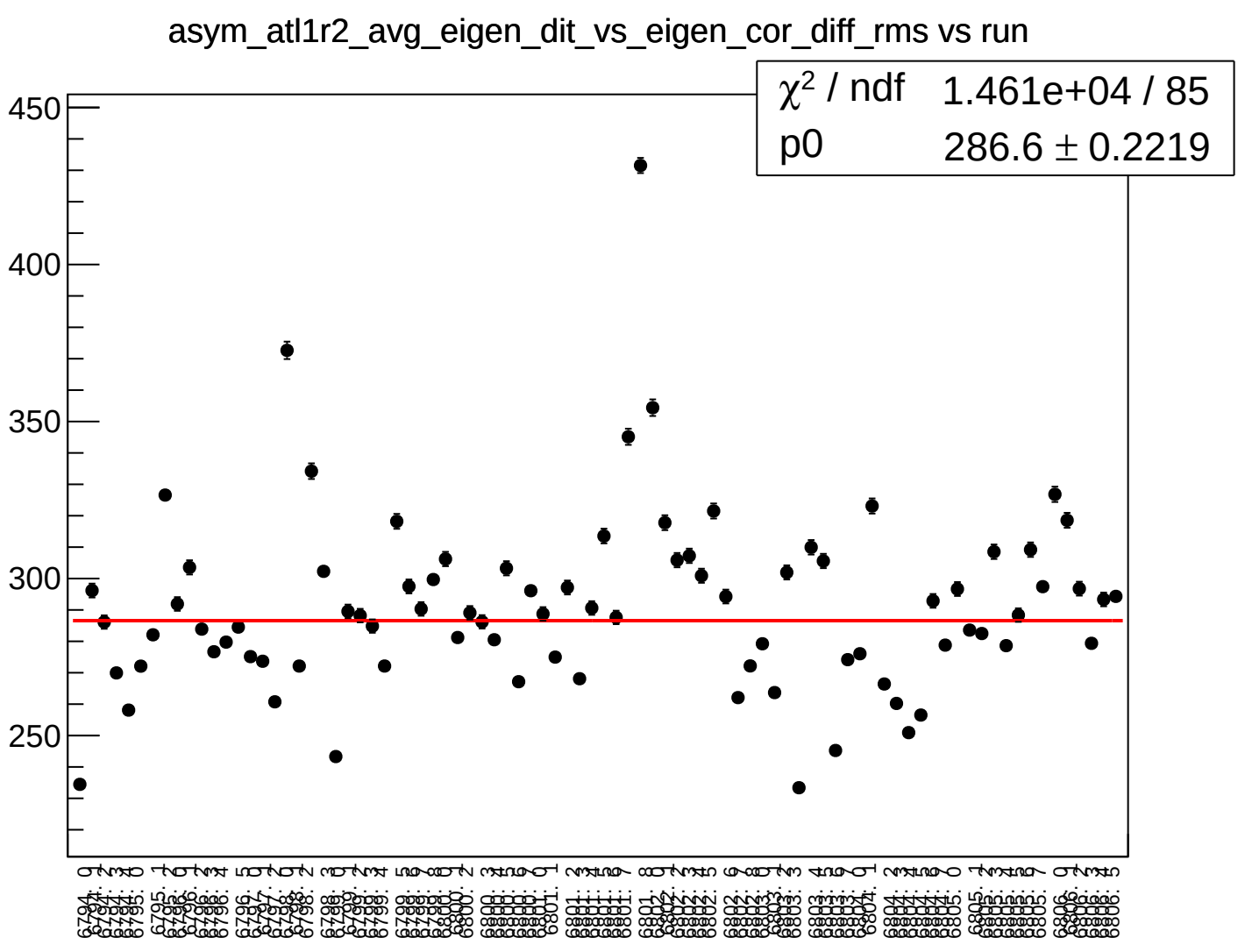

pull1D
Entries 86
Mean −0.02376
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

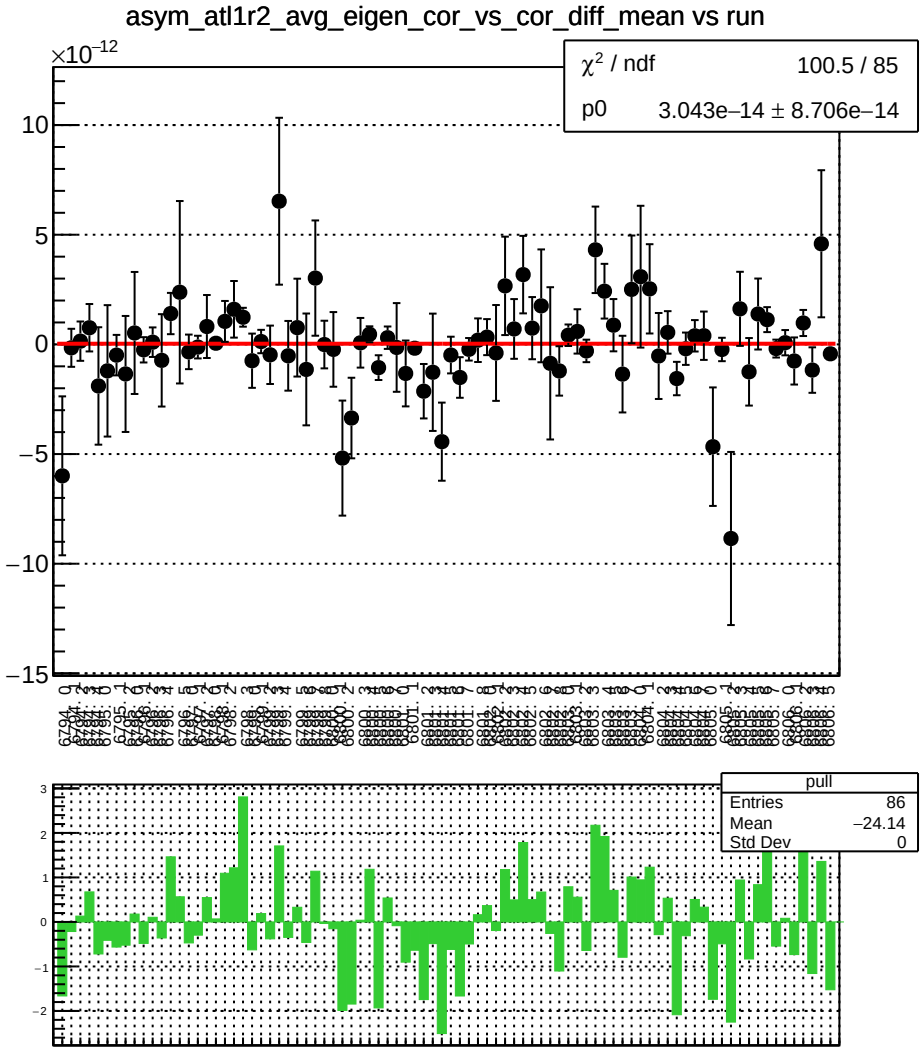

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8664 / 85
p0 0.009491 ± 7.336e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

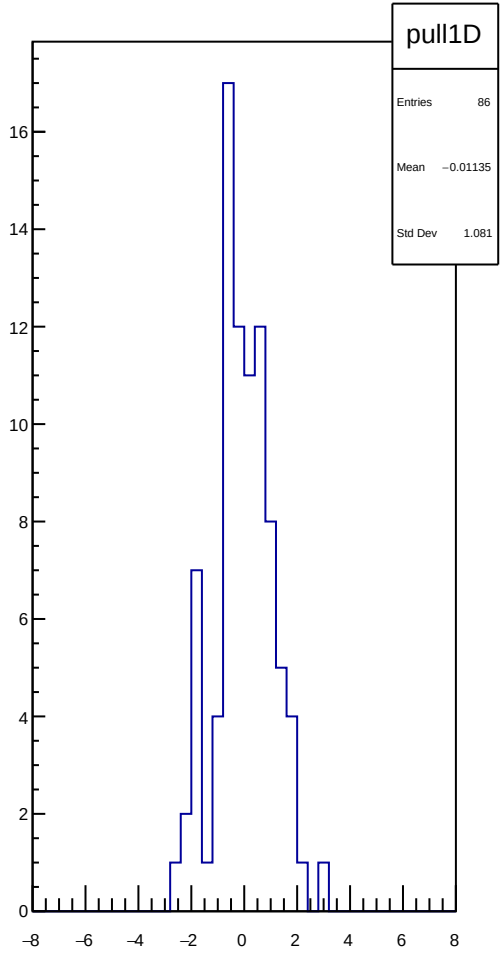

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.49 / 85
p0 0.4048 ± 0.3138
pull
Entries 86
Mean −87.53
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.003

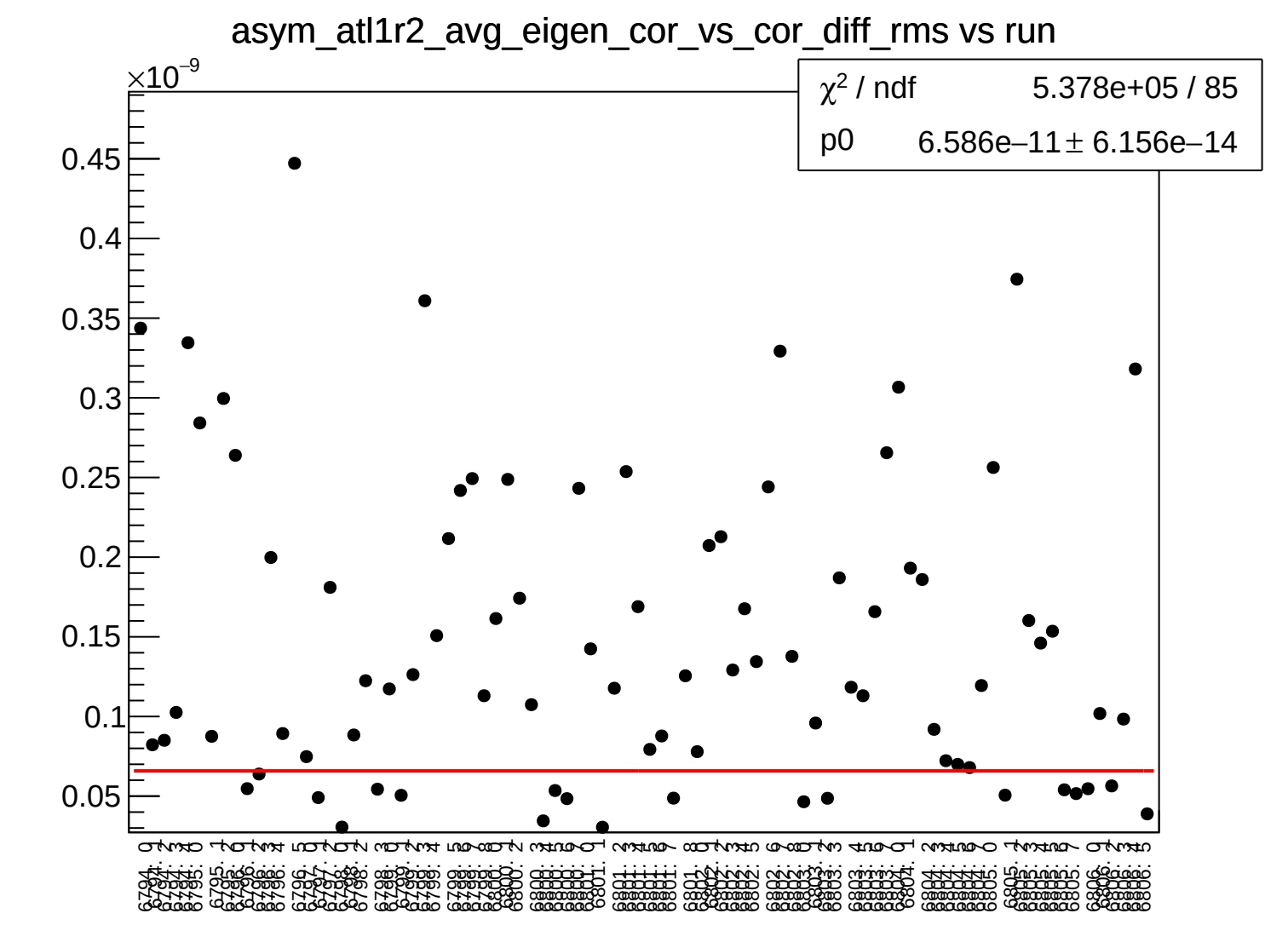

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 85
p0 286.6 ± 0.2219
450
400
350
300
250

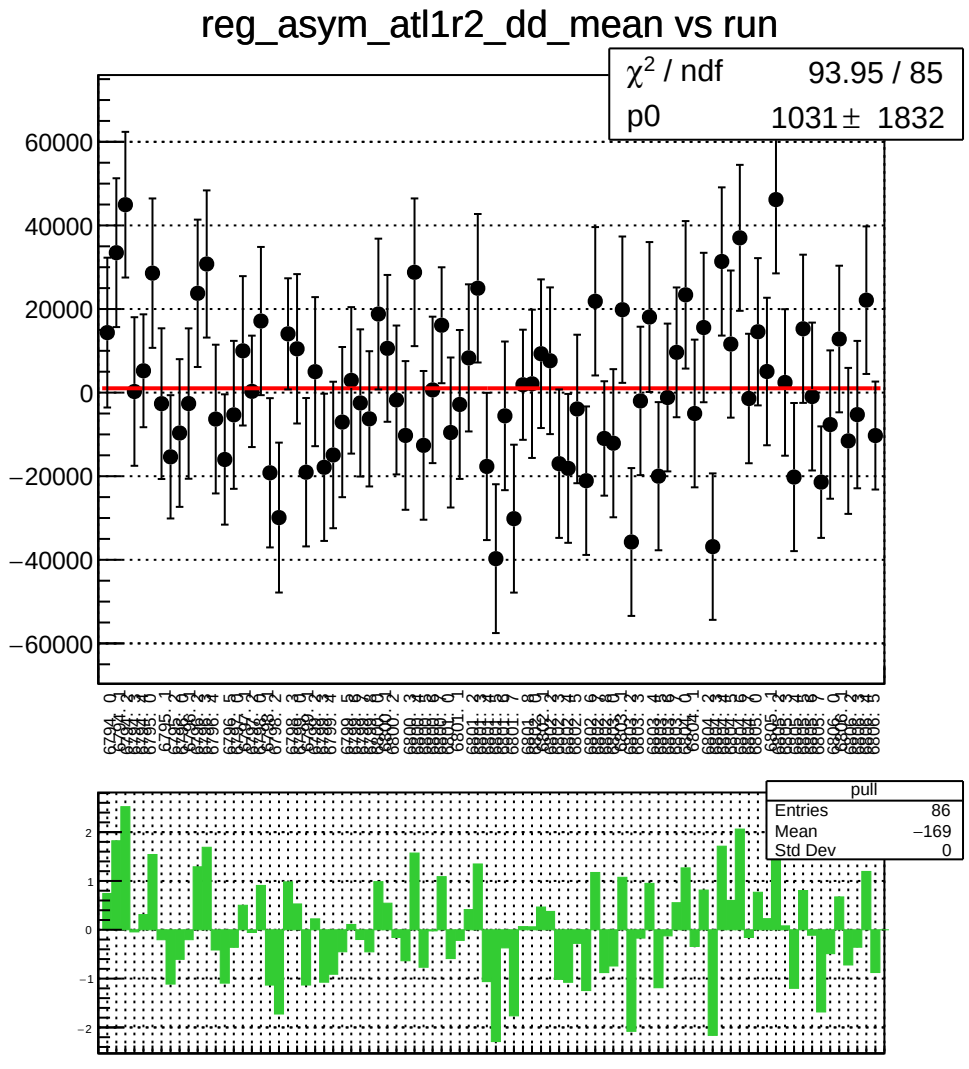

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.49 / 85
p0 0.4048 ± 0.3138
pull
Entries 86
Mean −87.53
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.003

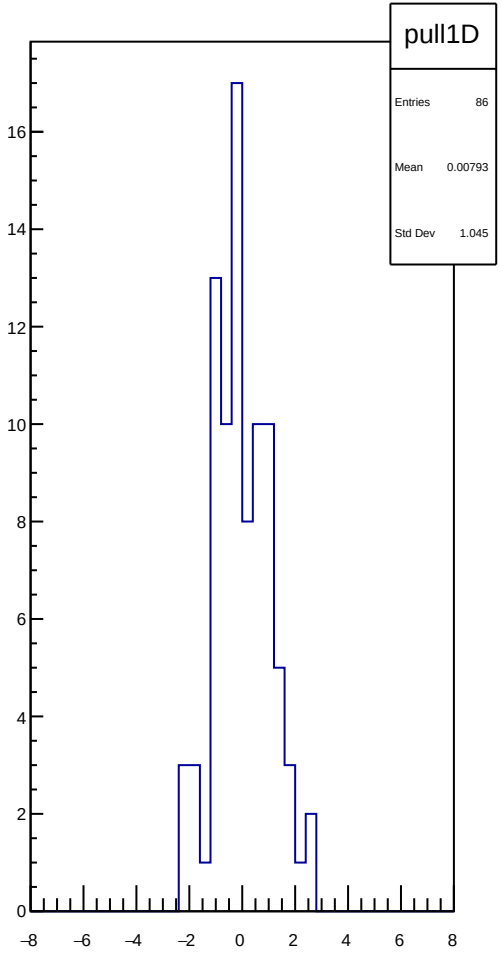

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.461e+04 / 85
p0 286.6 ± 0.2219
450
400
350
300
250


asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.5 / 85
p0 3.043e−14 ± 8.706e−14
pull
Entries 86
Mean −24.14
Std Dev 0

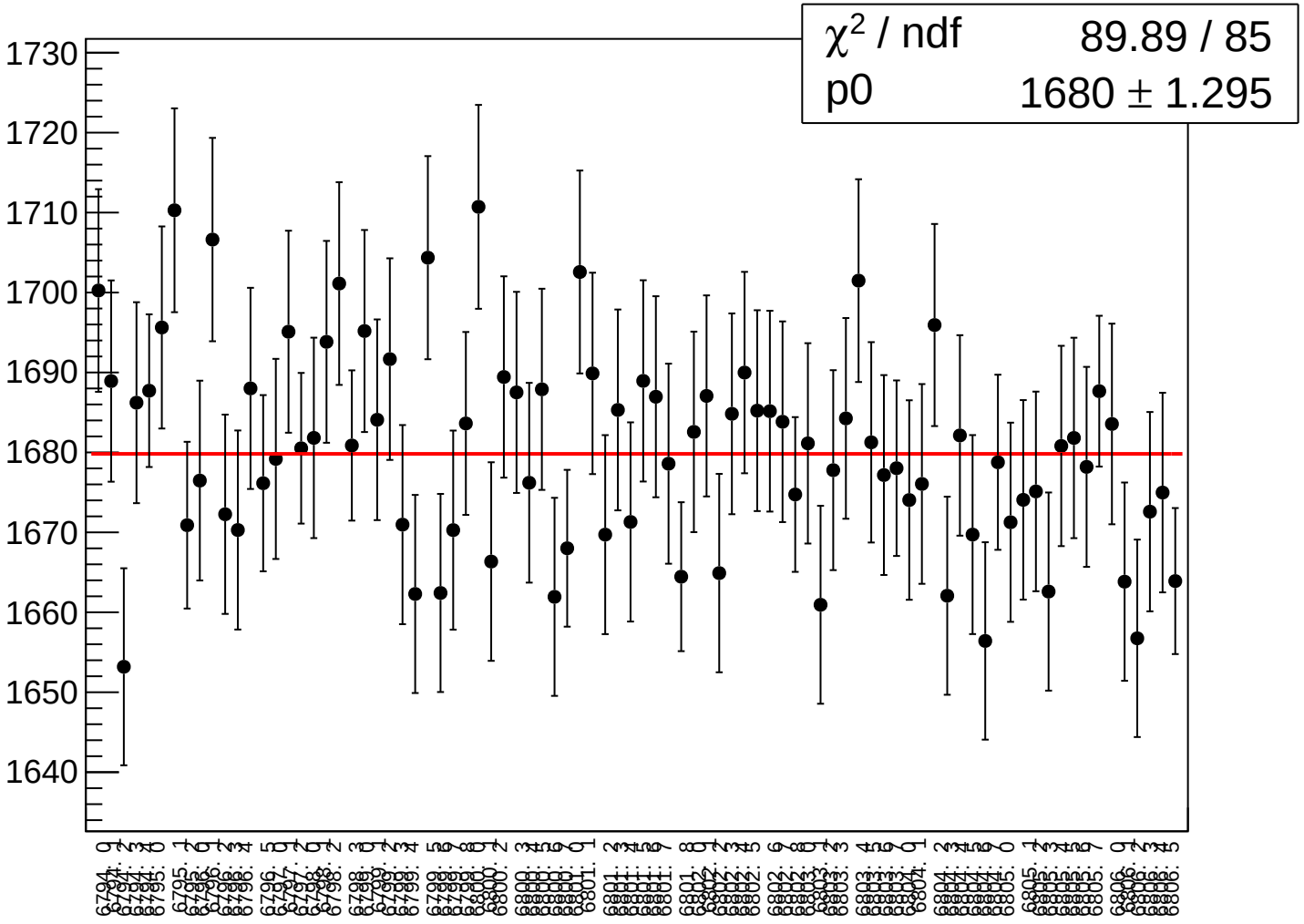

pull1D
Entries 86
Mean −0.01135
Std Dev 1.081

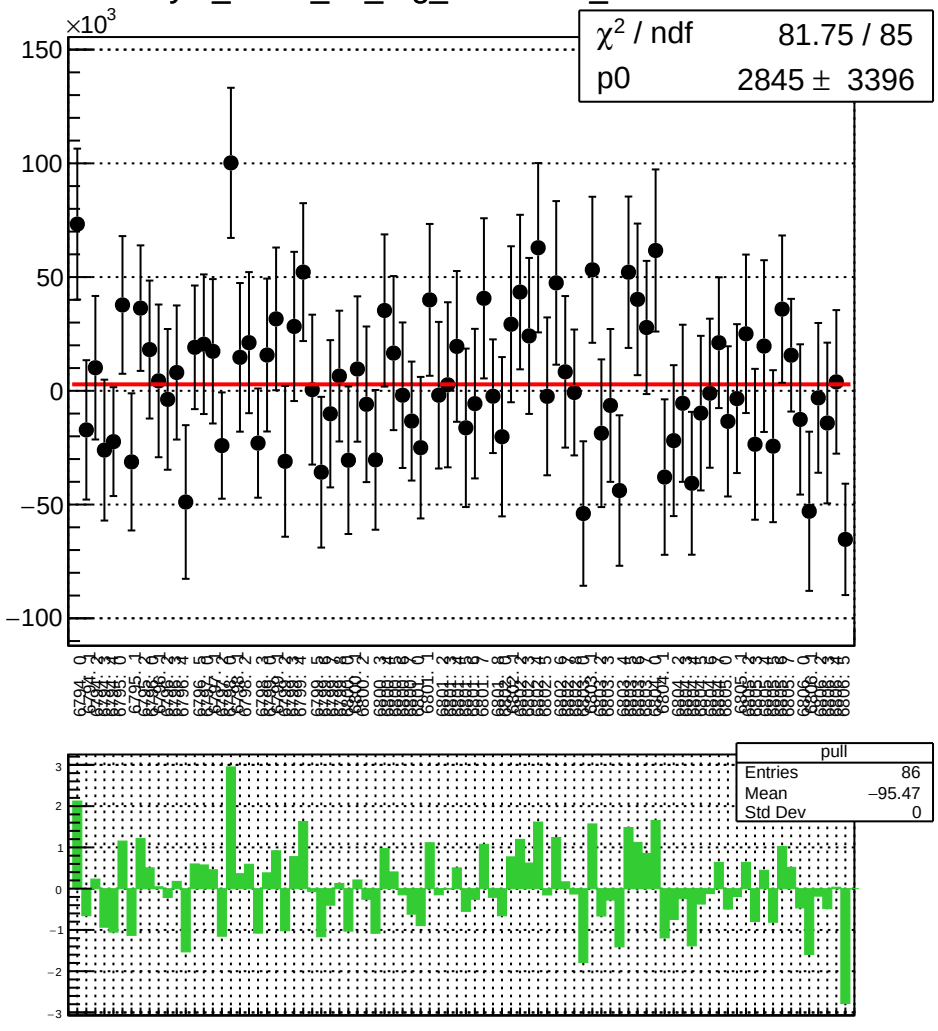

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.378e+05 / 85
p0 6.586e−11 ± 6.156e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

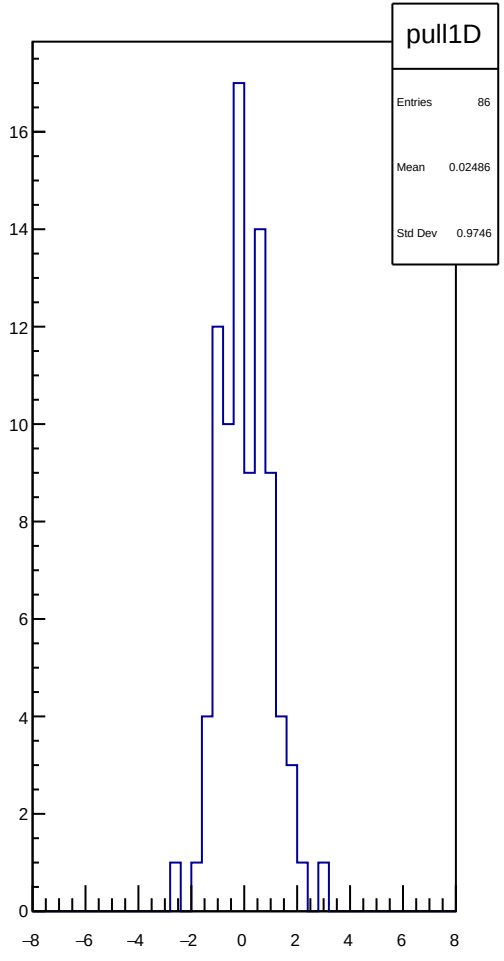

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 93.95 / 85
p0 1031 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −169
Std Dev 0
2
1
0
−1
−2

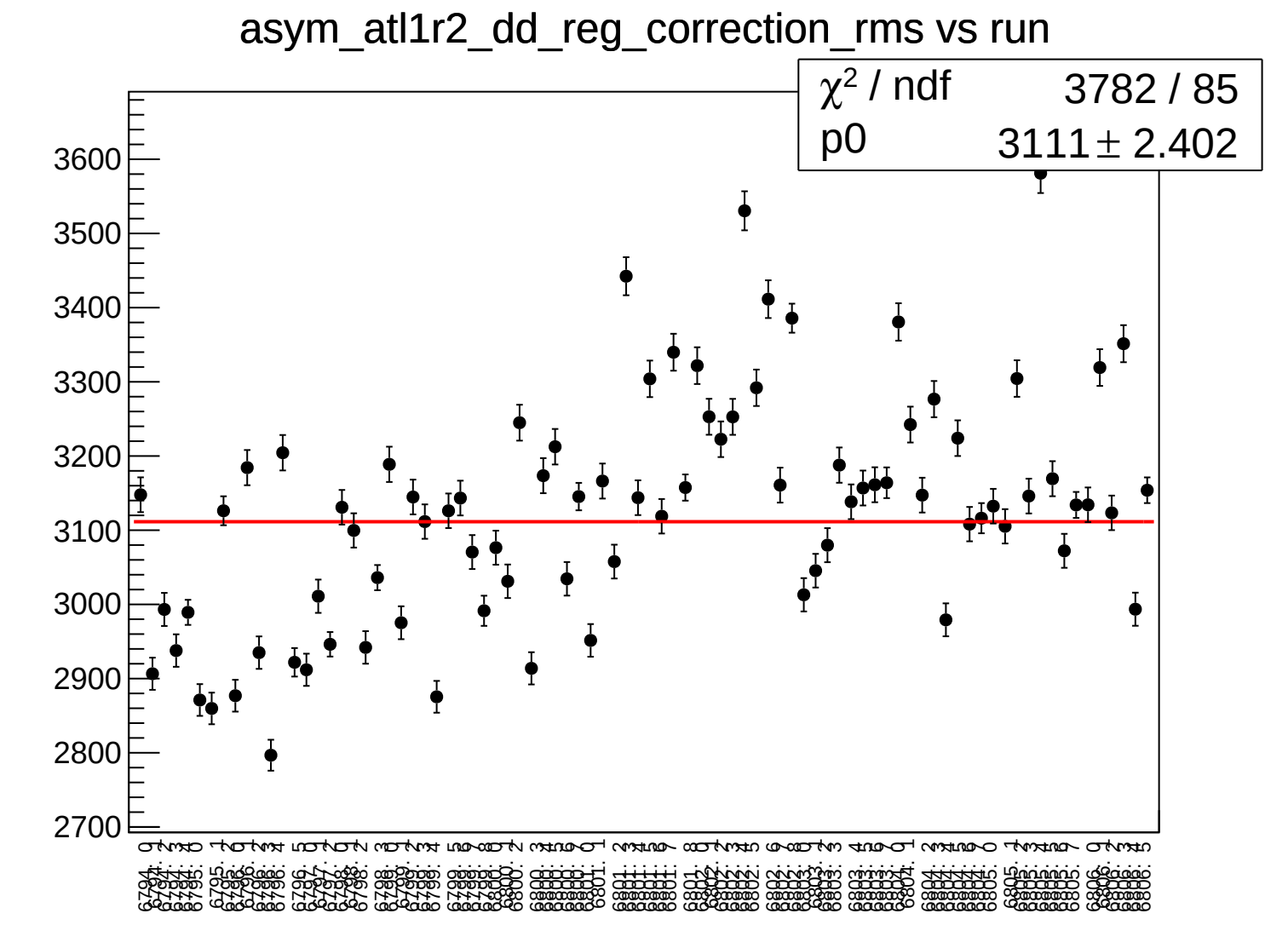

pull1D
Entries 86
Mean 0.00793
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

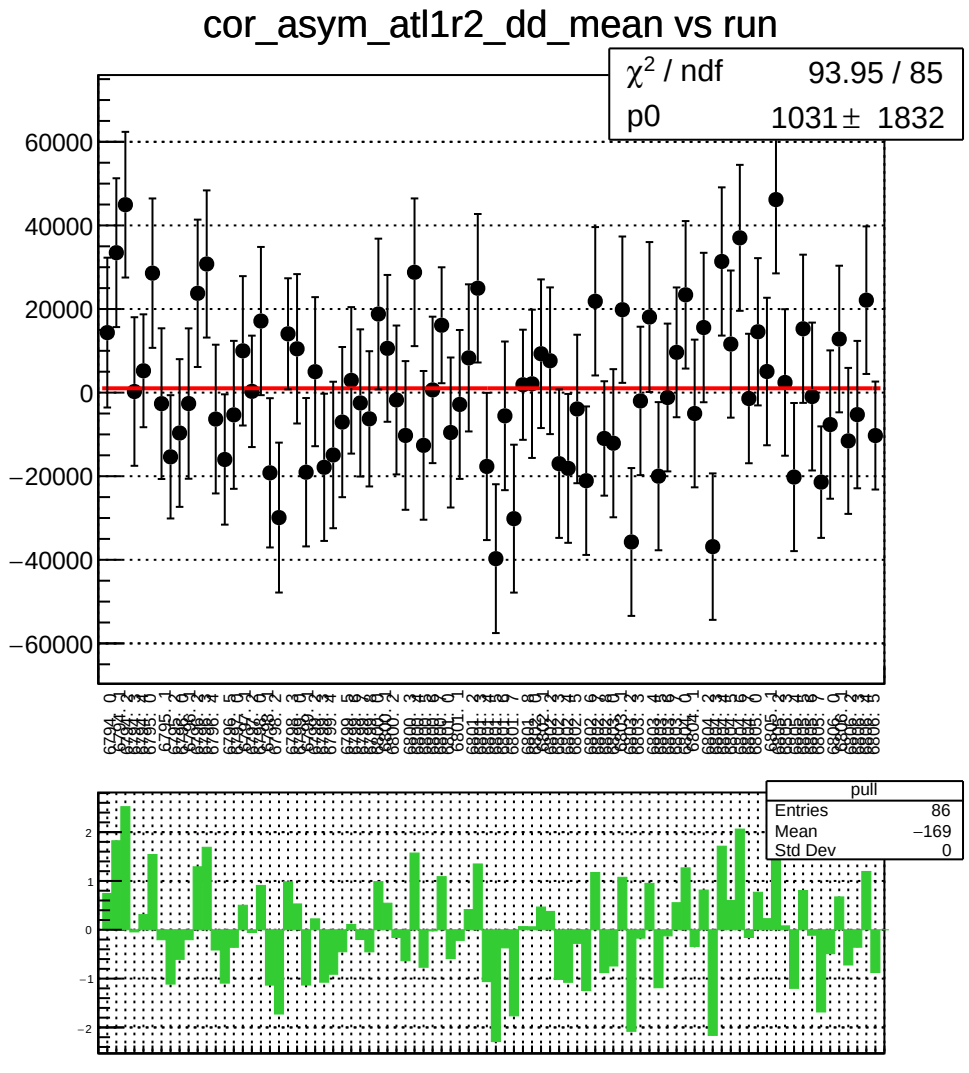
reg_asym_atl1r2_dd_rms vs run

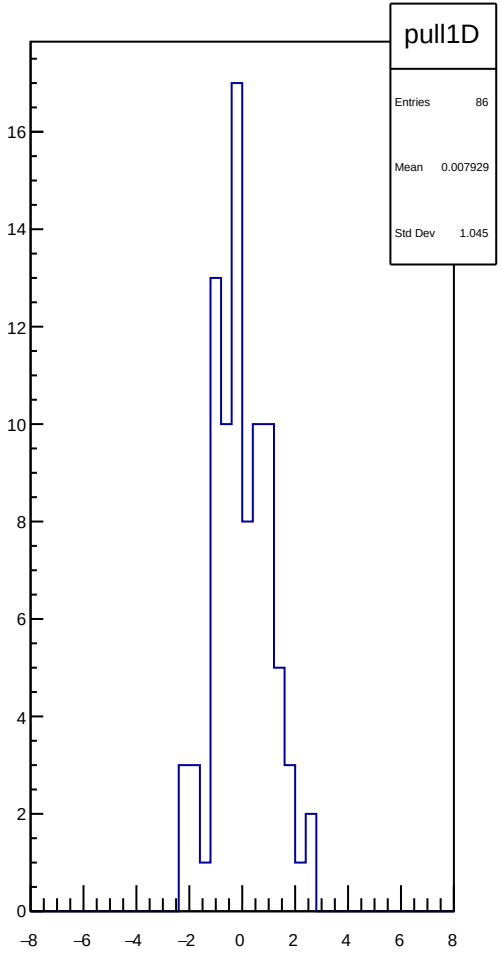



asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 81.75 / 85
p0 2845 ± 3396
150
100
50
0
−50
−100
pull
Entries 86
Mean −95.47
Std Dev 0
3
2
1
0
−1
−2
−3

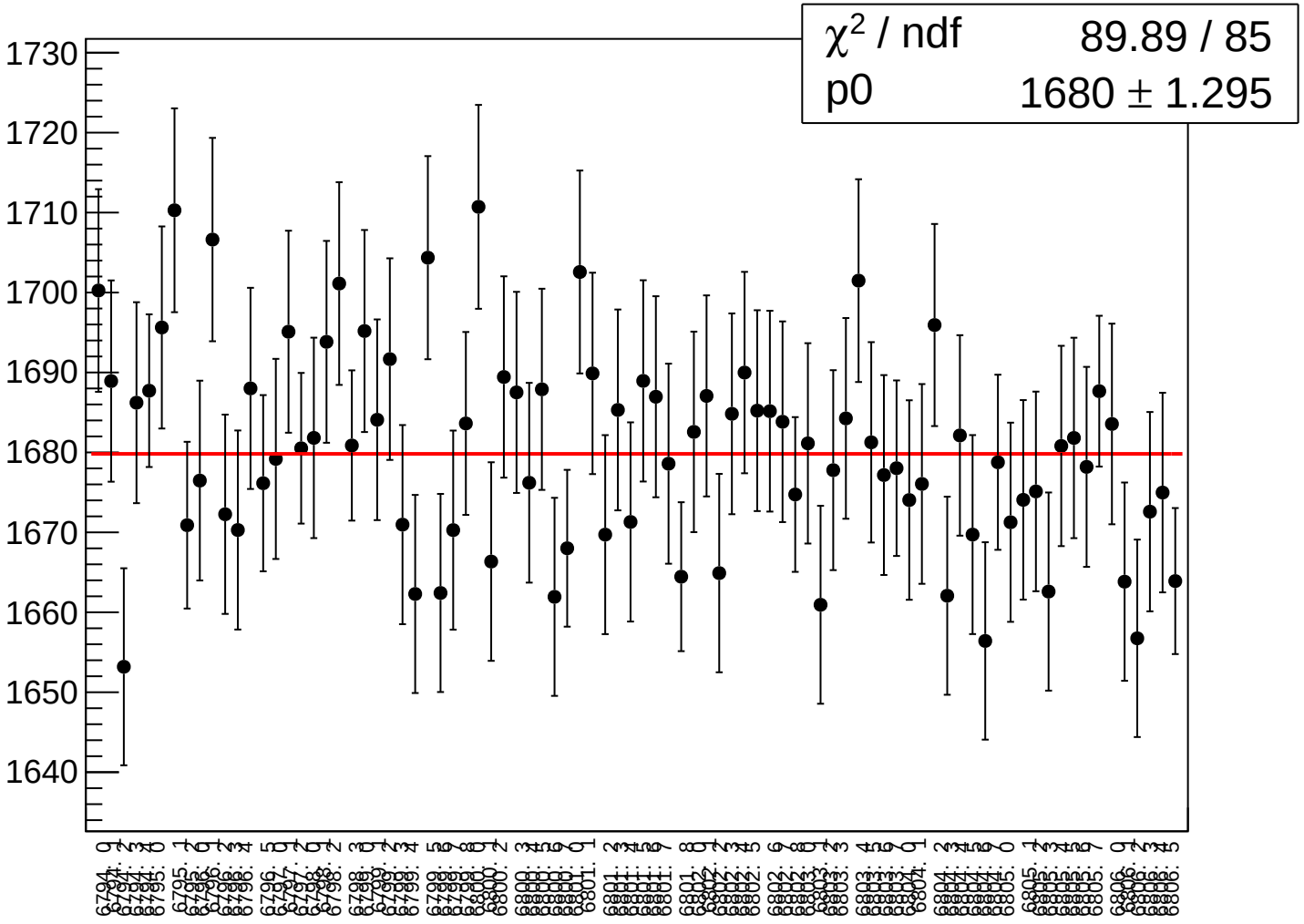

pull1D
Entries 86
Mean 0.02486
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

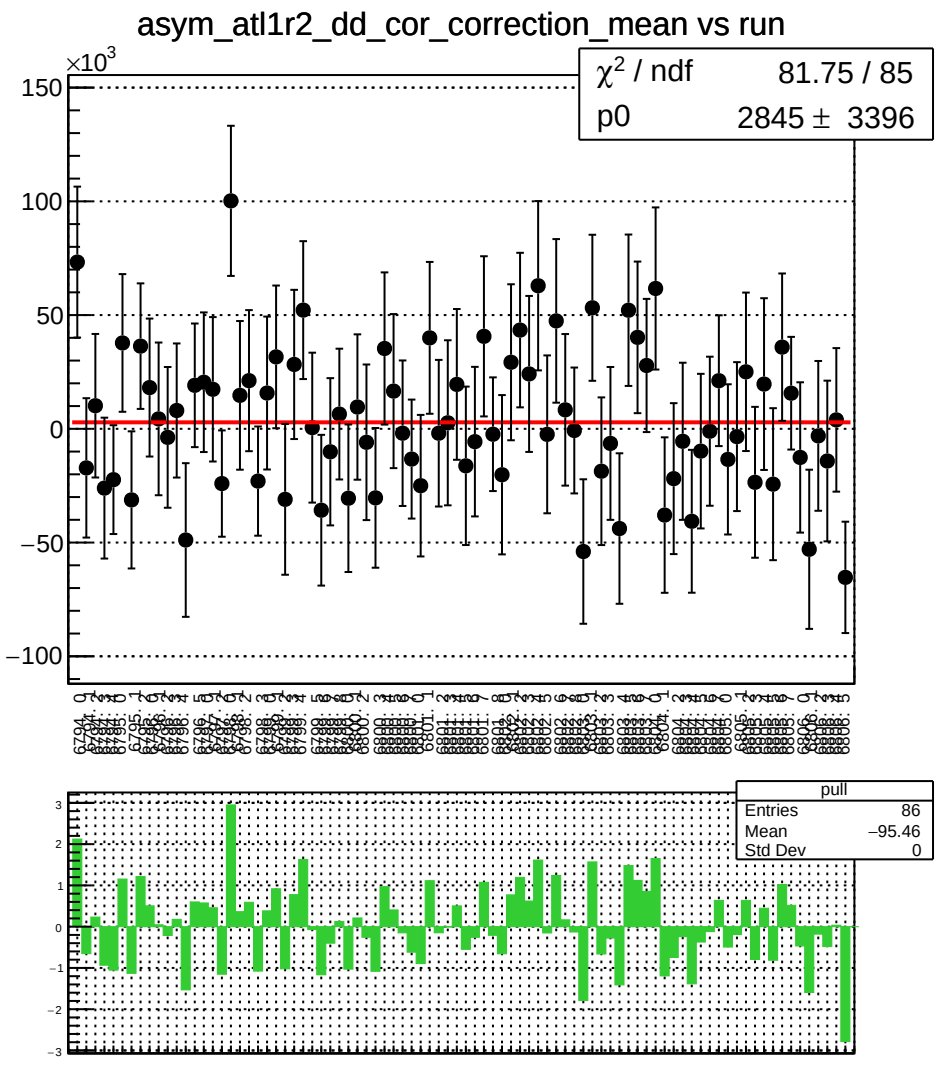

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 3782 / 85
p0 3111 ± 2.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700

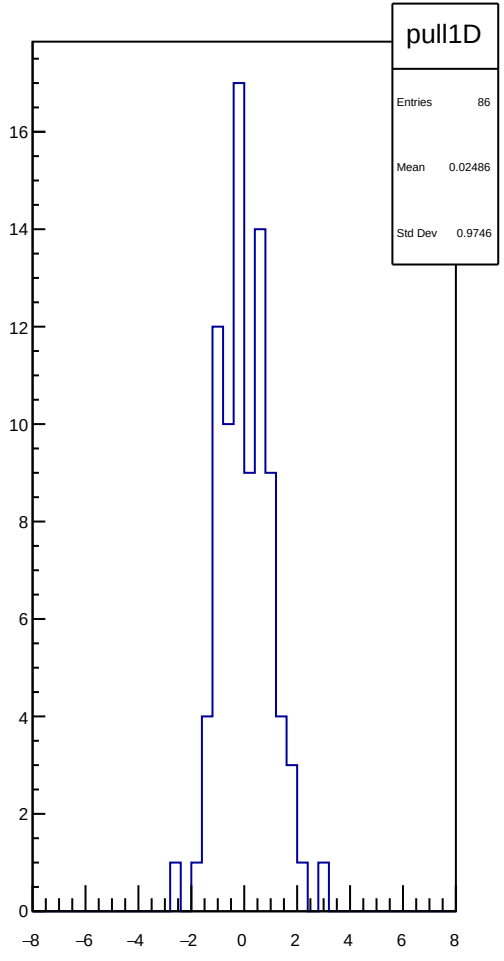

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 93.95 / 85
p0 1031 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −169
Std Dev 0
2
1
0
−1
−2

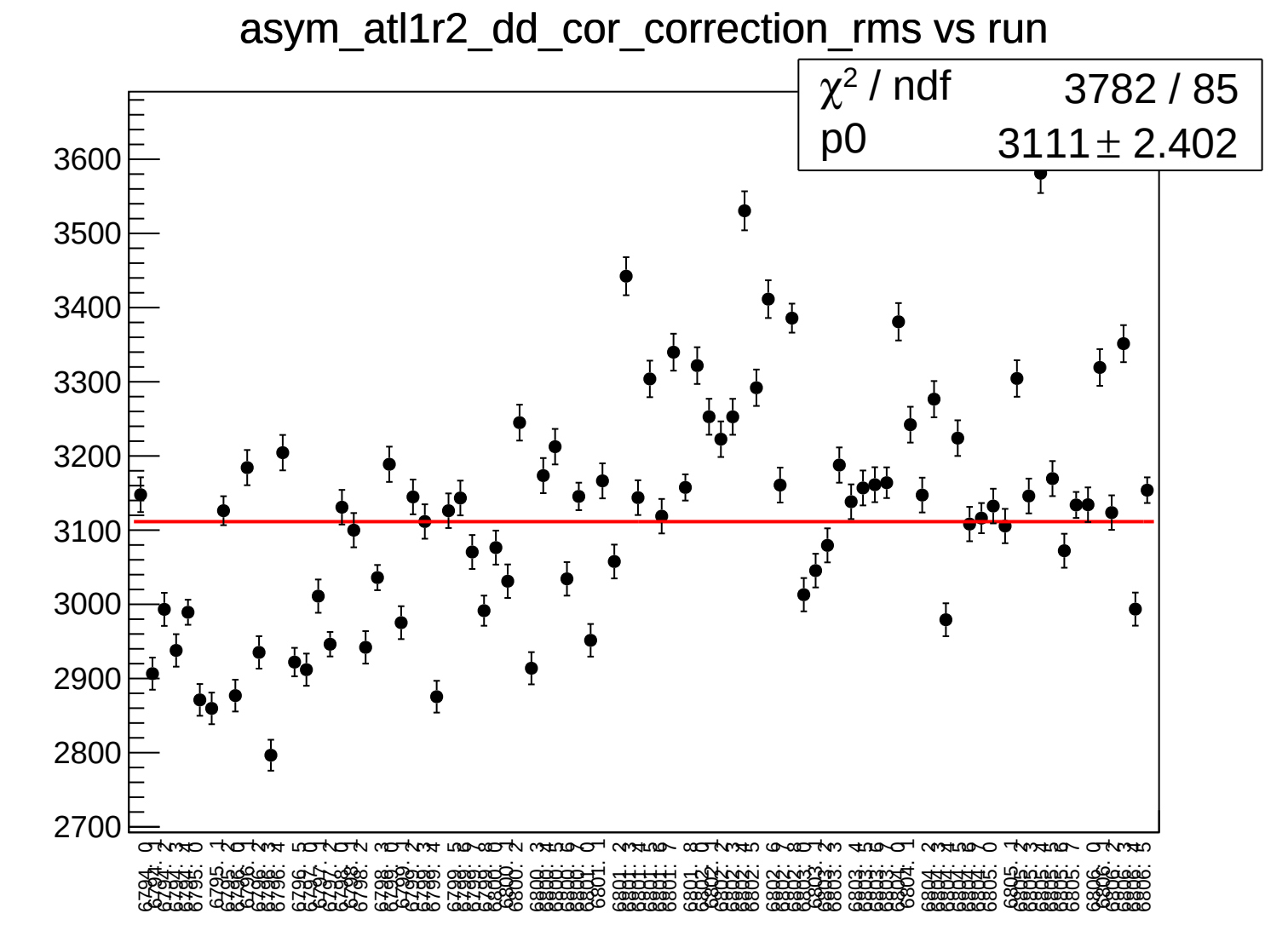

pull1D
Entries 86
Mean 0.007929
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

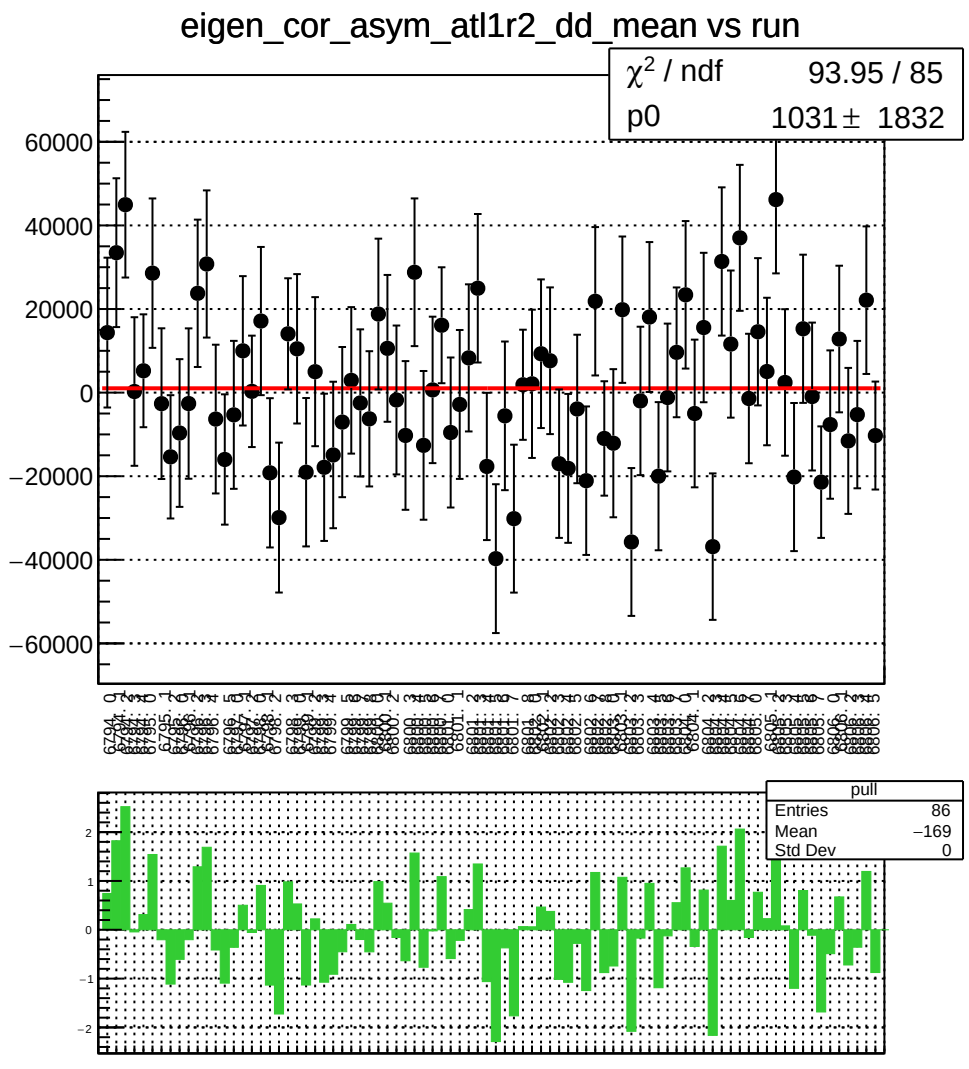
cor_asym_atl1r2_dd_rms vs run

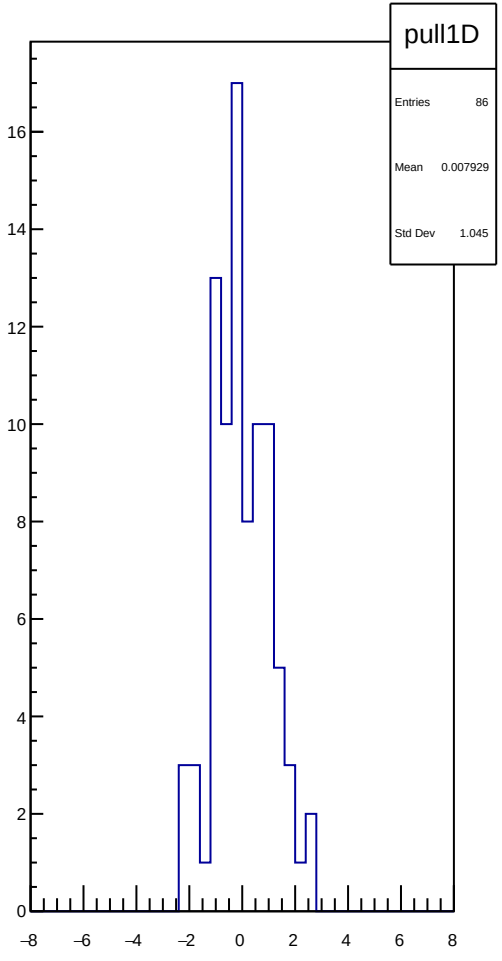


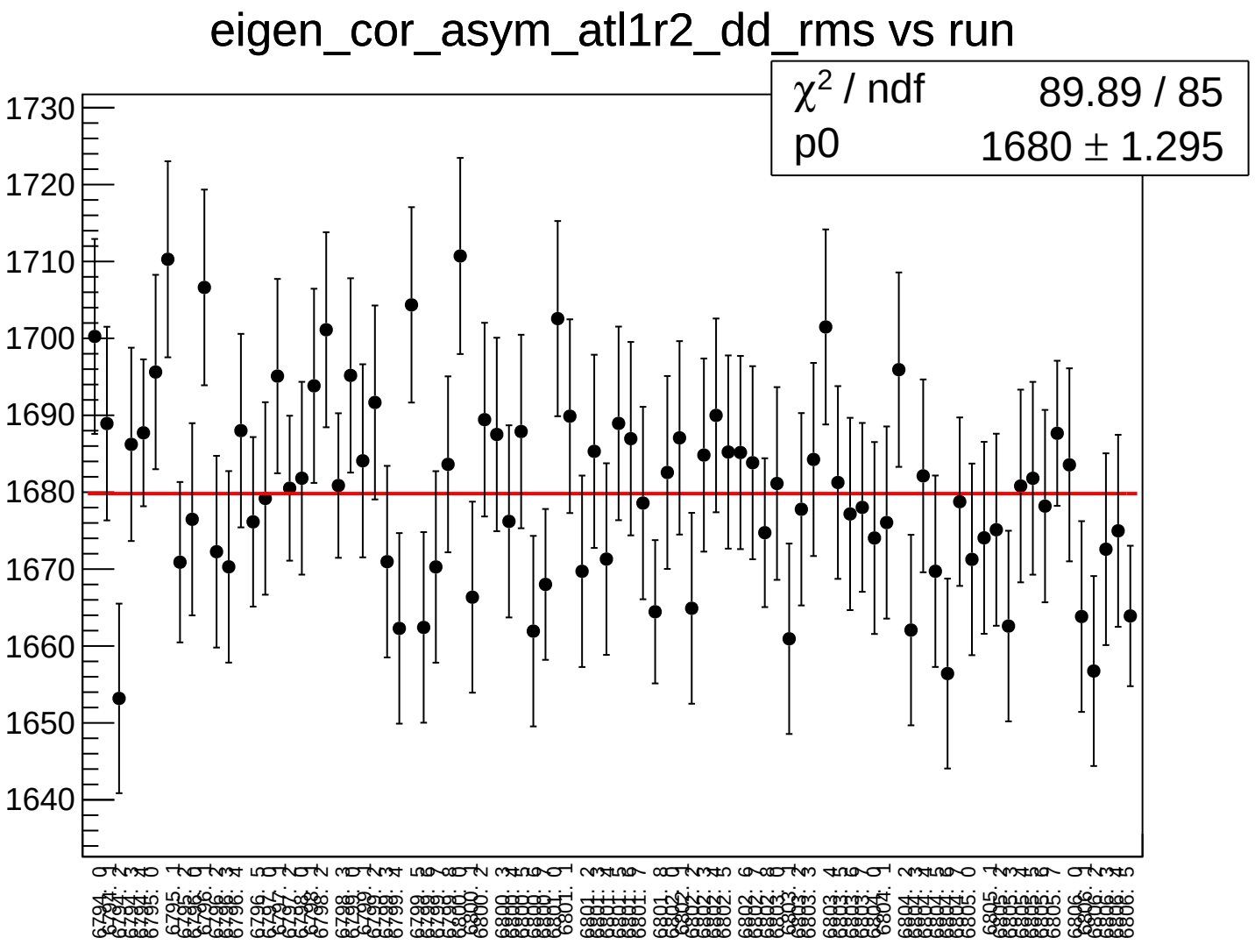

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 81.75 / 85
p0 2845 ± 3396
150
100
50
0
−50
−100
pull
Entries 86
Mean −95.46
Std Dev 0
3
2
1
0
−1
−2
−3

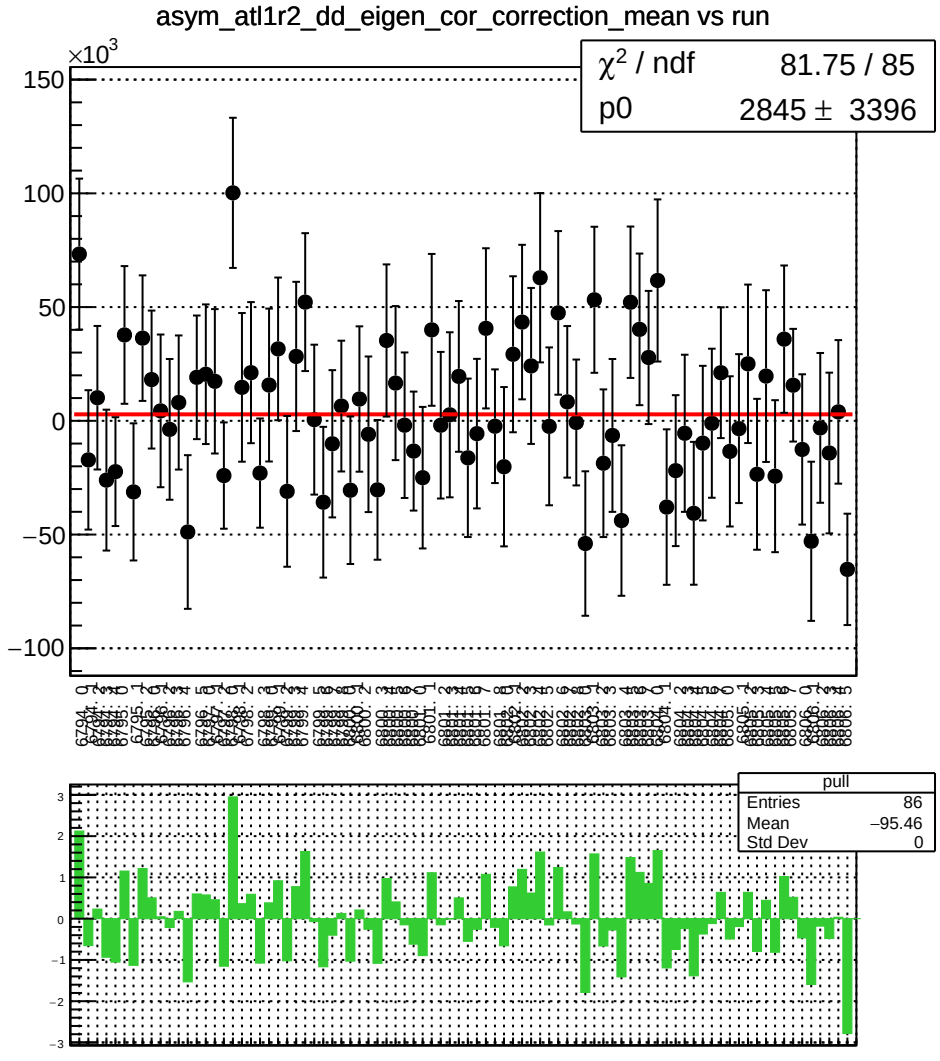

pull1D
Entries 86
Mean 0.02486
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

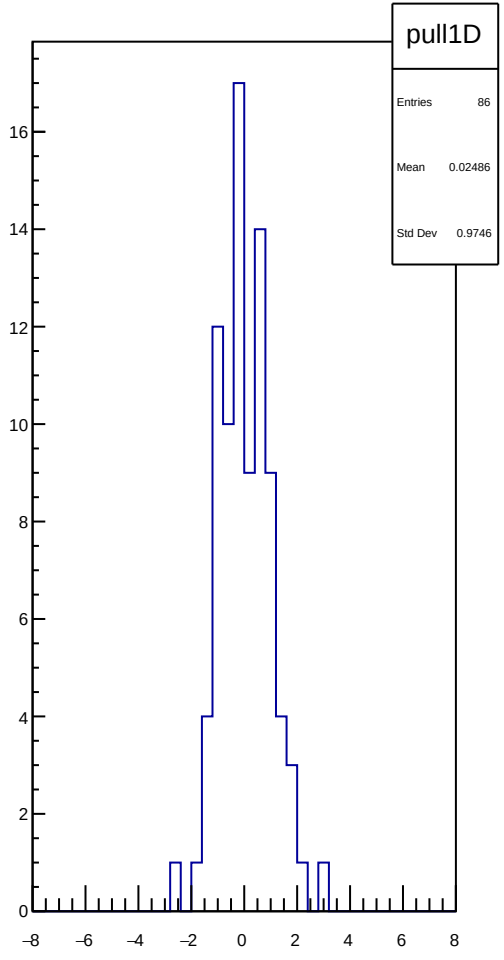

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 3782 / 85
p0 3111 ± 2.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700

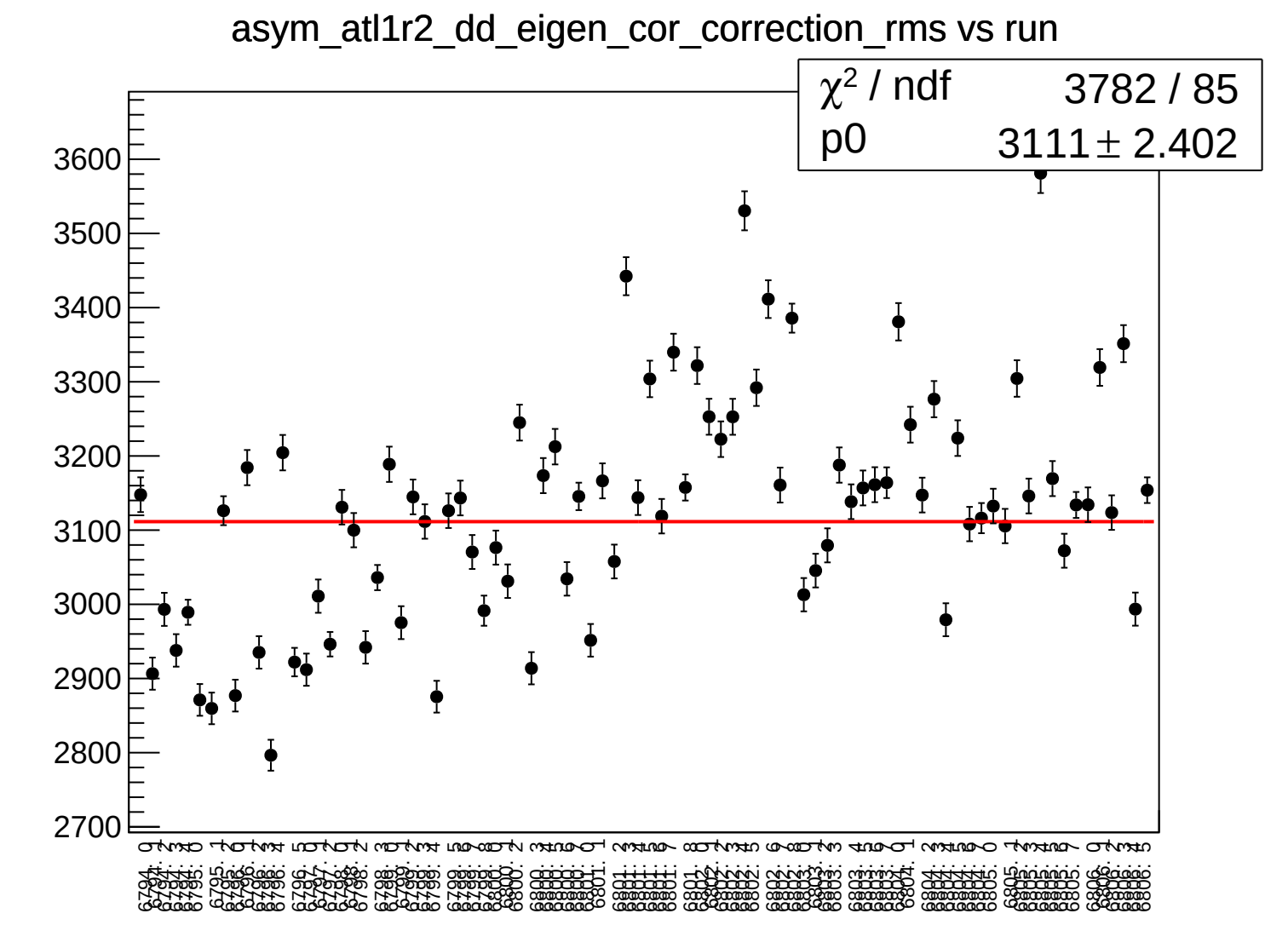

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 93.95 / 85
p0 1031 ± 1832
pull
Entries 86
Mean −169
Std Dev 0

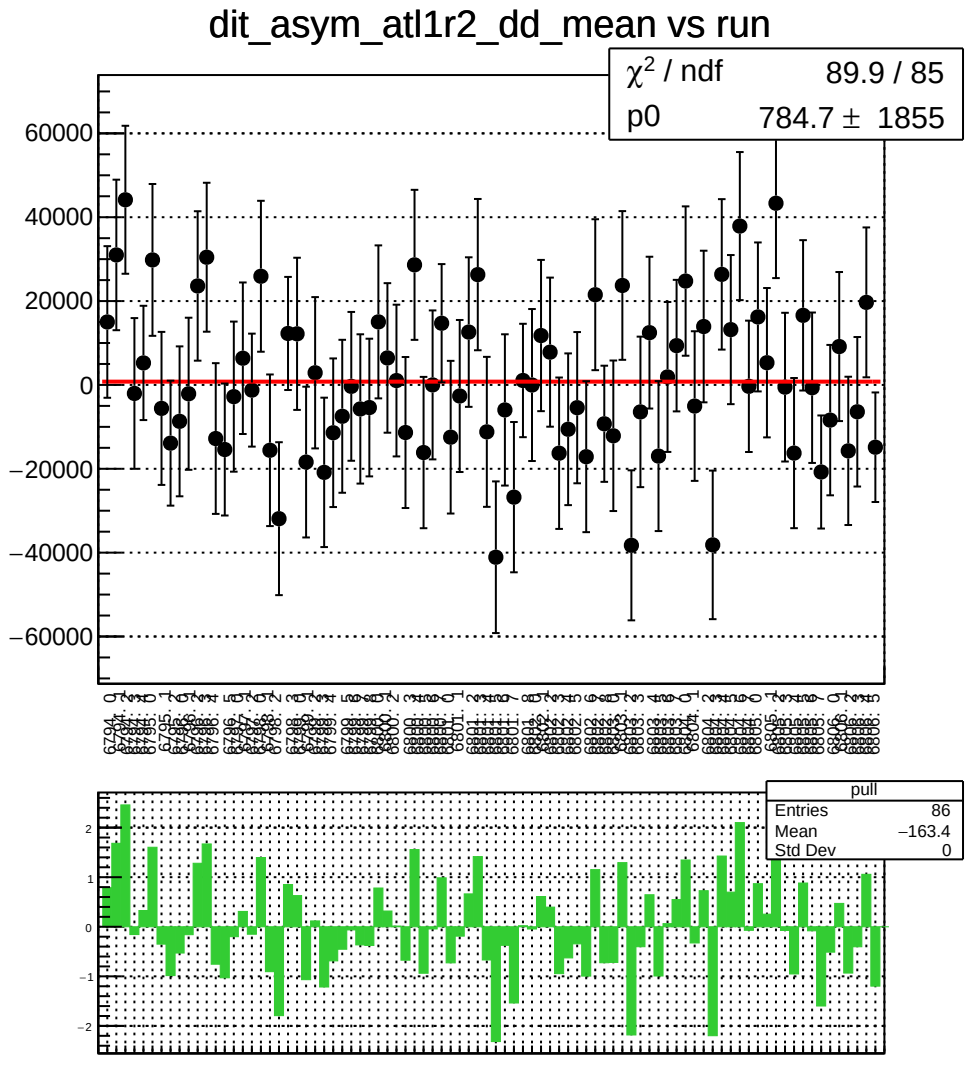

pull1D
Entries 86
Mean 0.007929
Std Dev 1.045

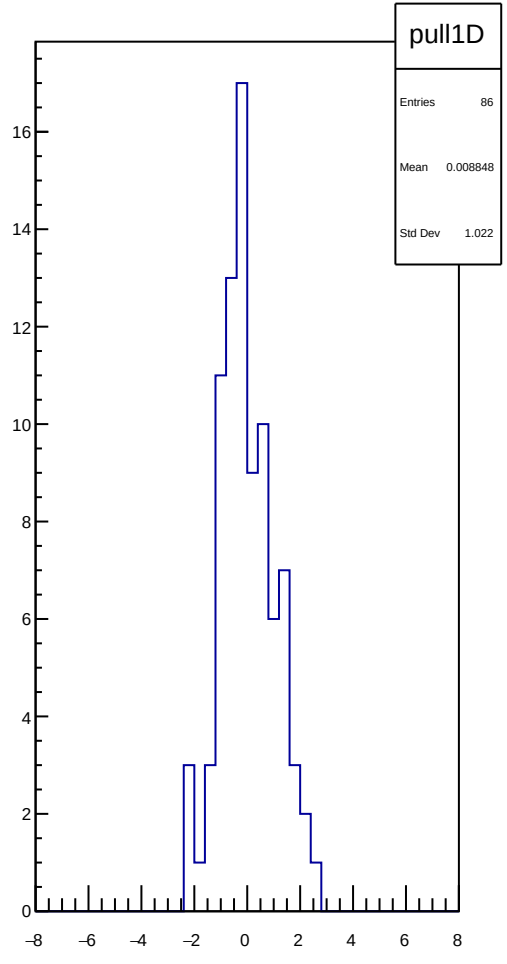

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 89.89 / 85
p0 1680 ± 1.295
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640

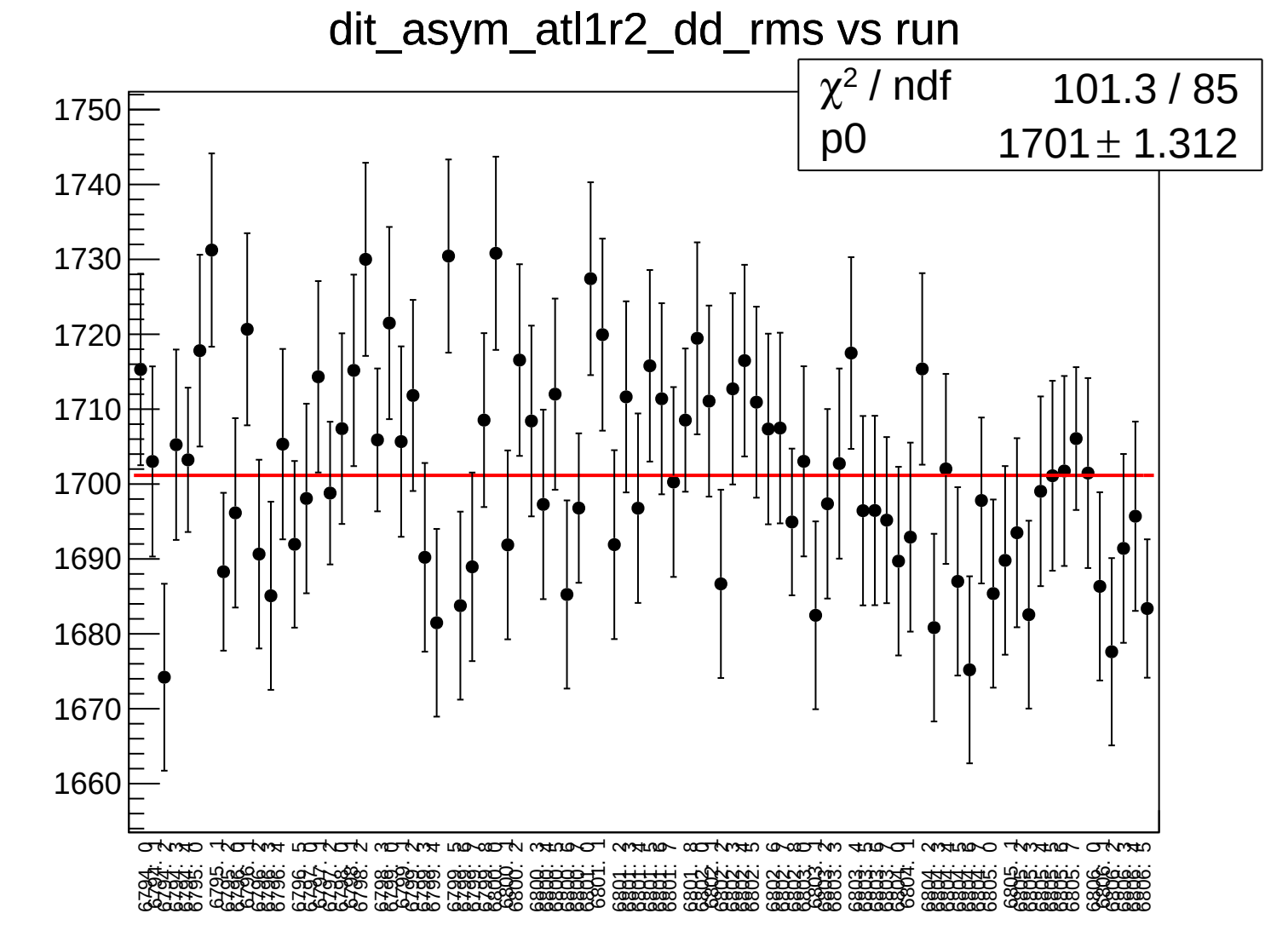

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 81.75 / 85
p0 2845 ± 3396
150
100
50
0
−50
−100
pull
Entries 86
Mean −95.46
Std Dev 0
3
2
1
0
−1
−2
−3

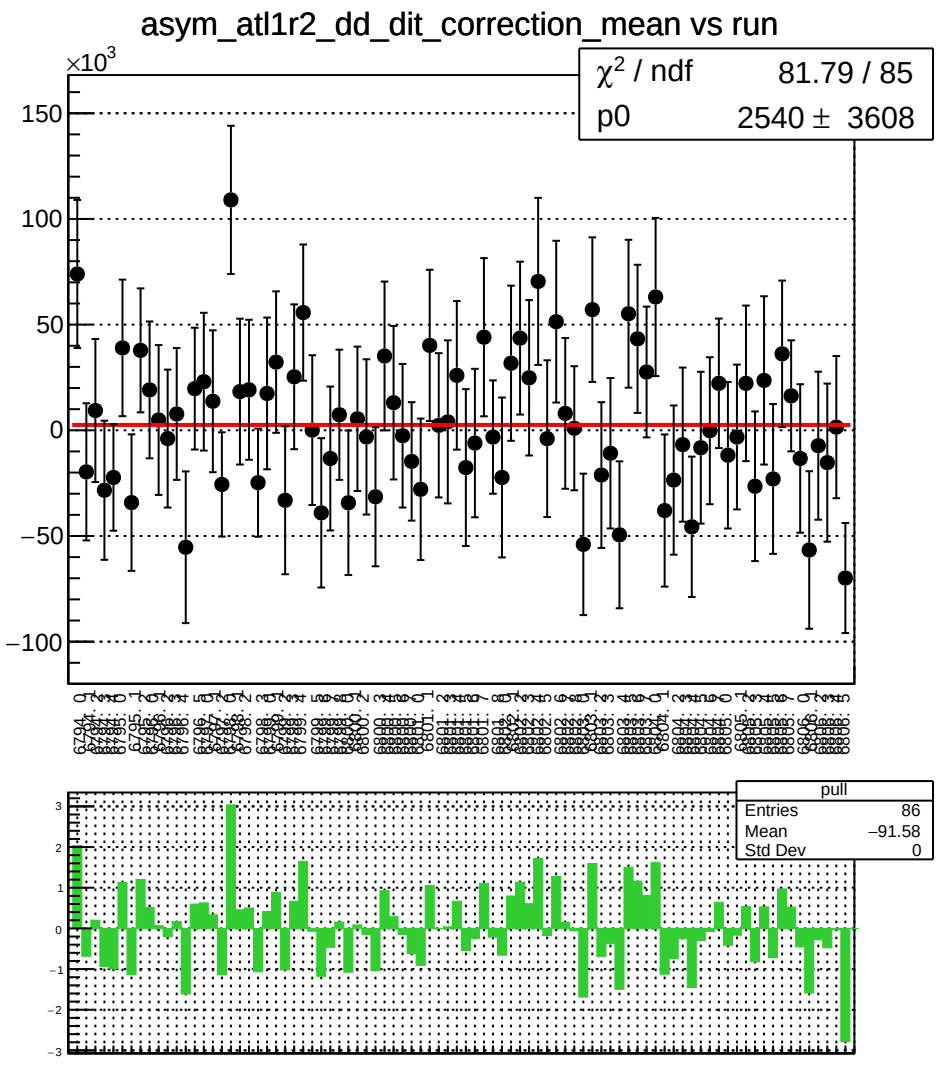

pull1D
Entries 86
Mean 0.02486
Std Dev 0.9746
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

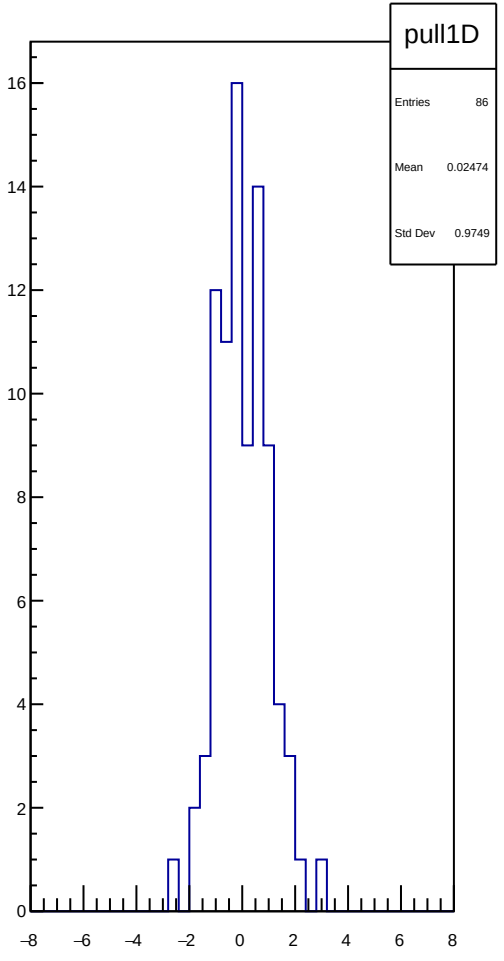

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3782 / 85
p0 3111 ± 2.402
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700

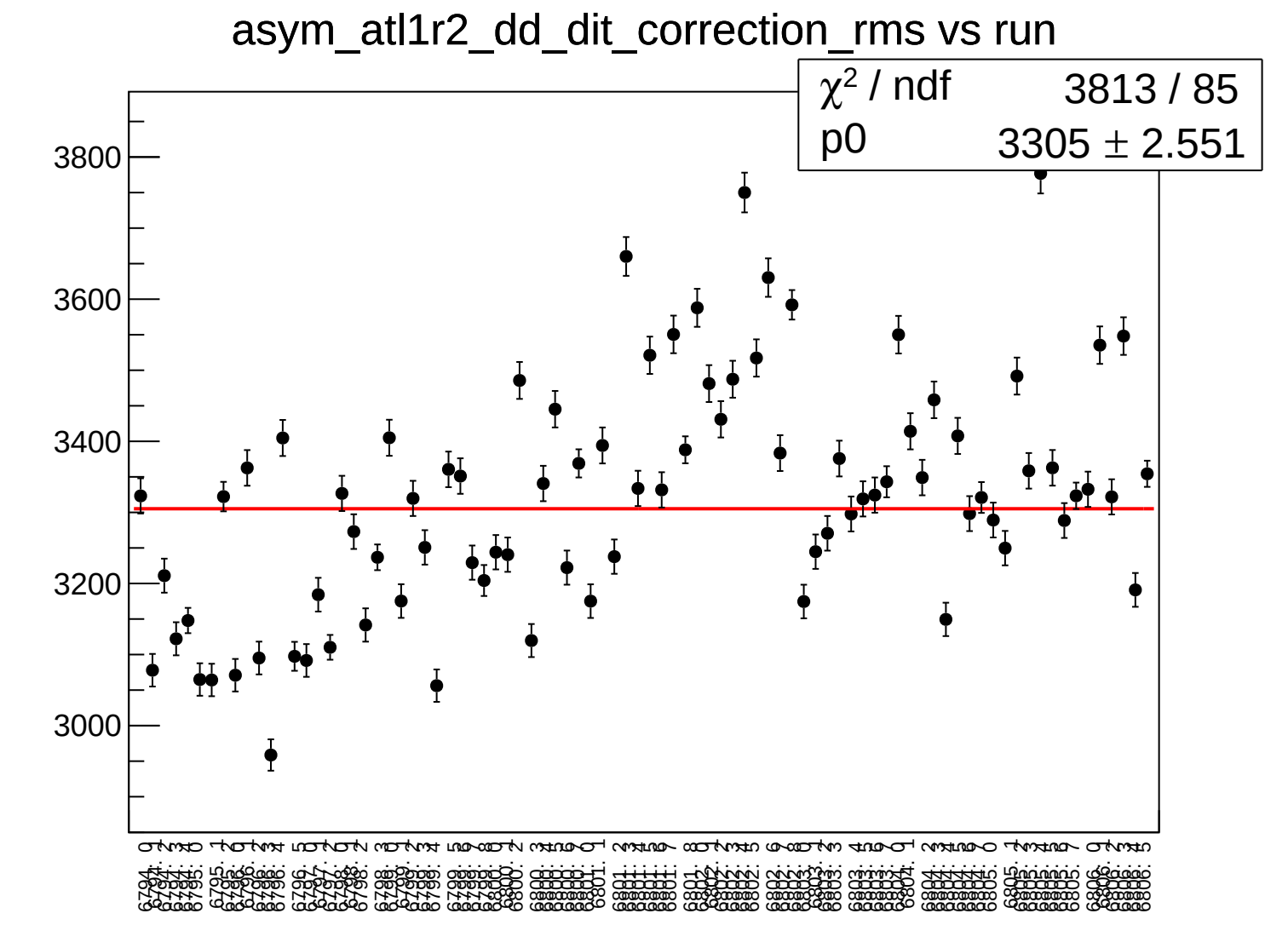

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.9 / 85
p0 784.7 ± 1855
pull
Entries 86
Mean −163.4
Std Dev 0

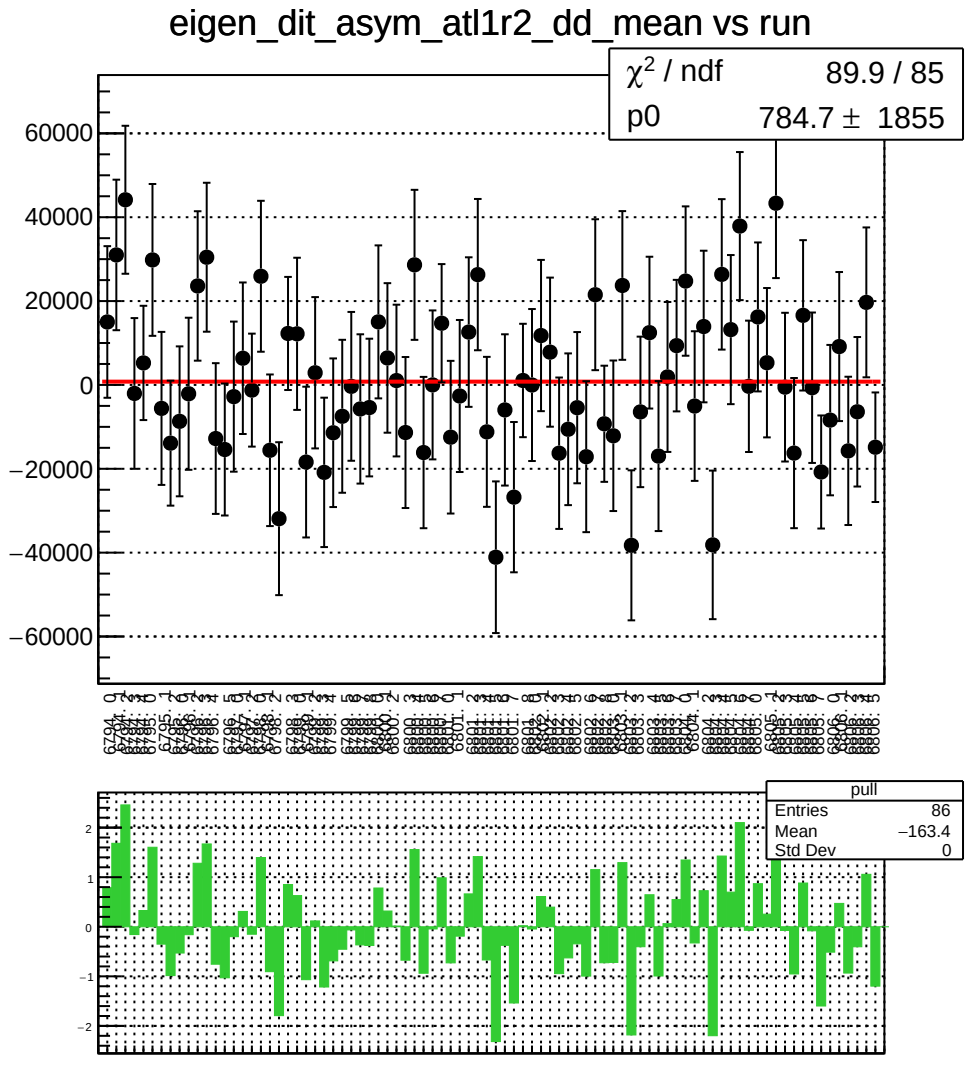

pull1D
Entries 86
Mean 0.008848
Std Dev 1.022

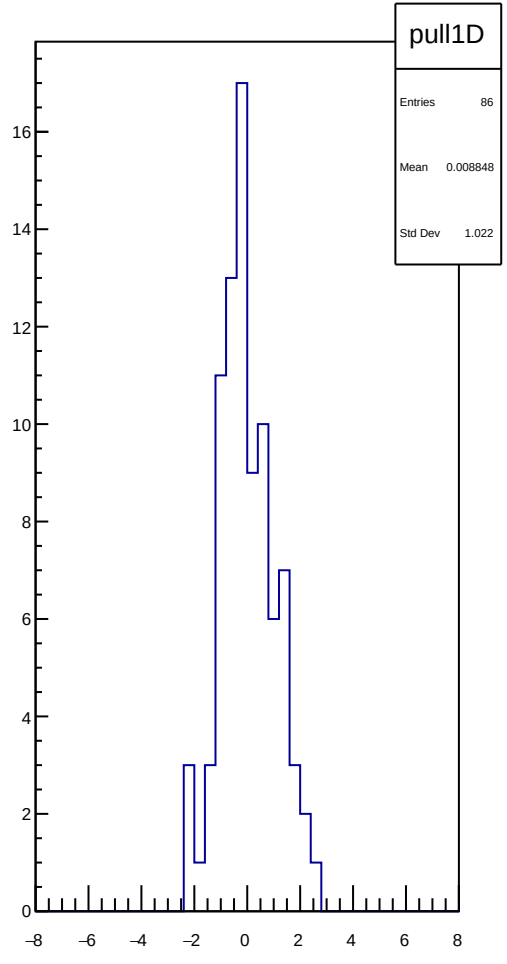

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 101.3 / 85
p0 1701 ± 1.312
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660

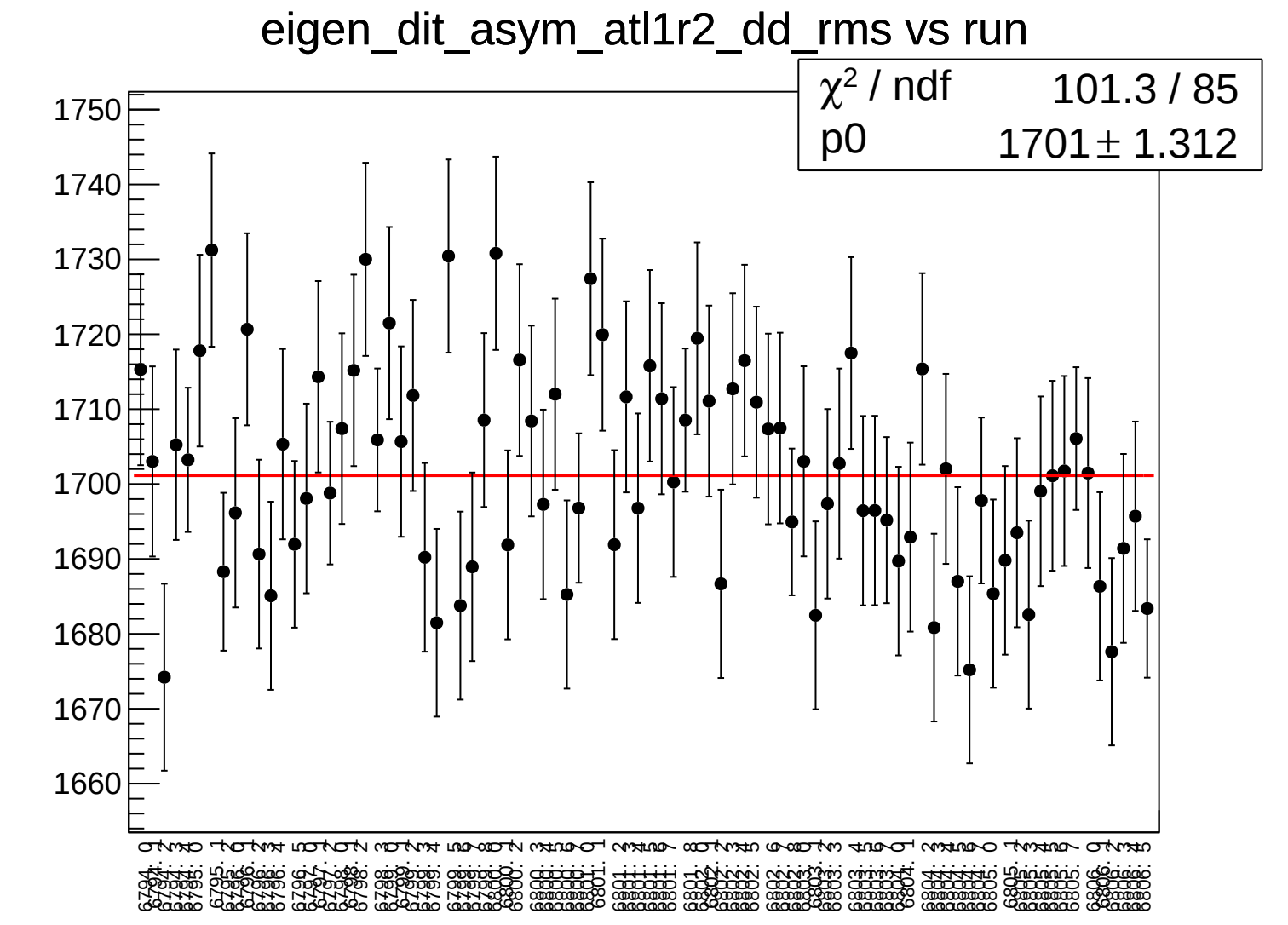

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 81.79 / 85
p0 2540 ± 3608
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

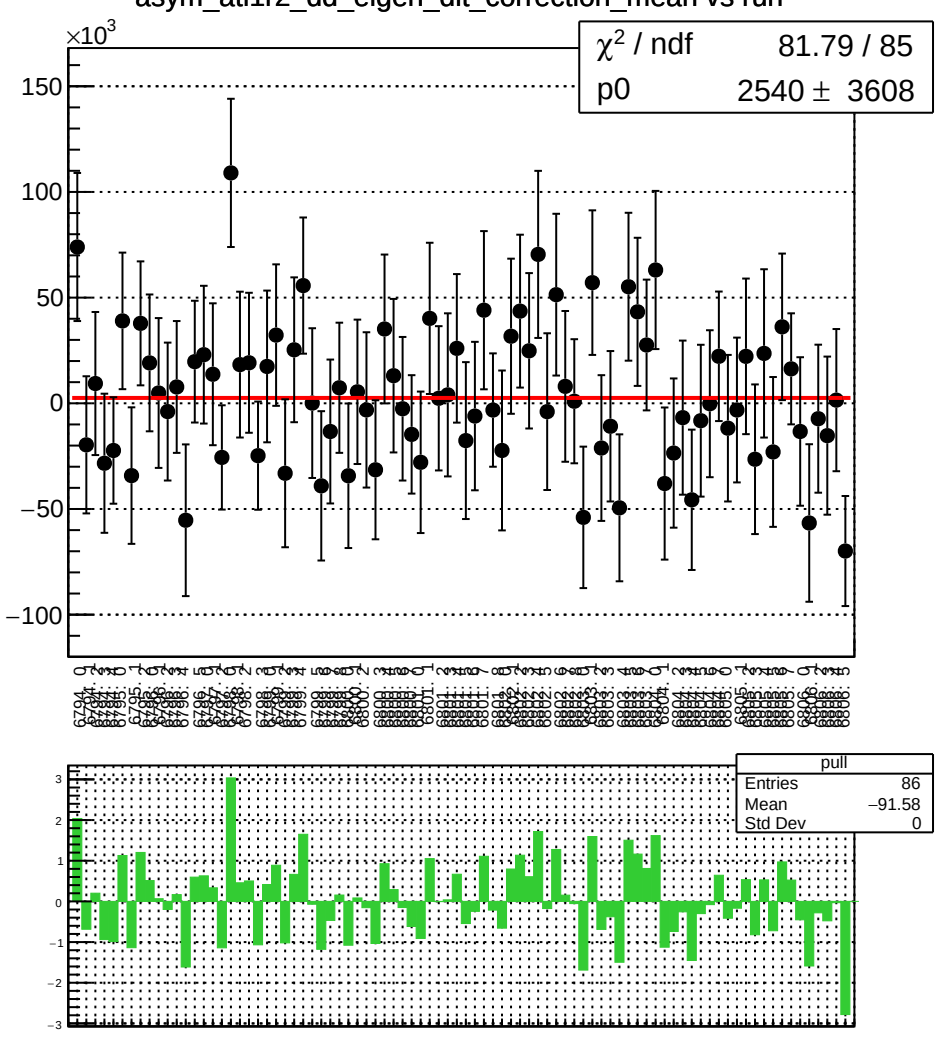

pull1D
Entries 86
Mean 0.02474
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

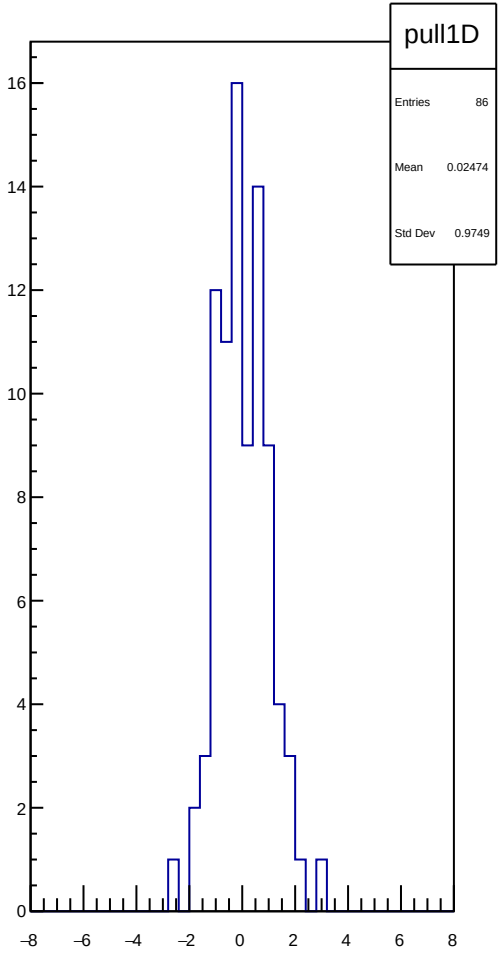

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 3813 / 85
p0 3305 ± 2.551
3800
3600
3400
3200
3000

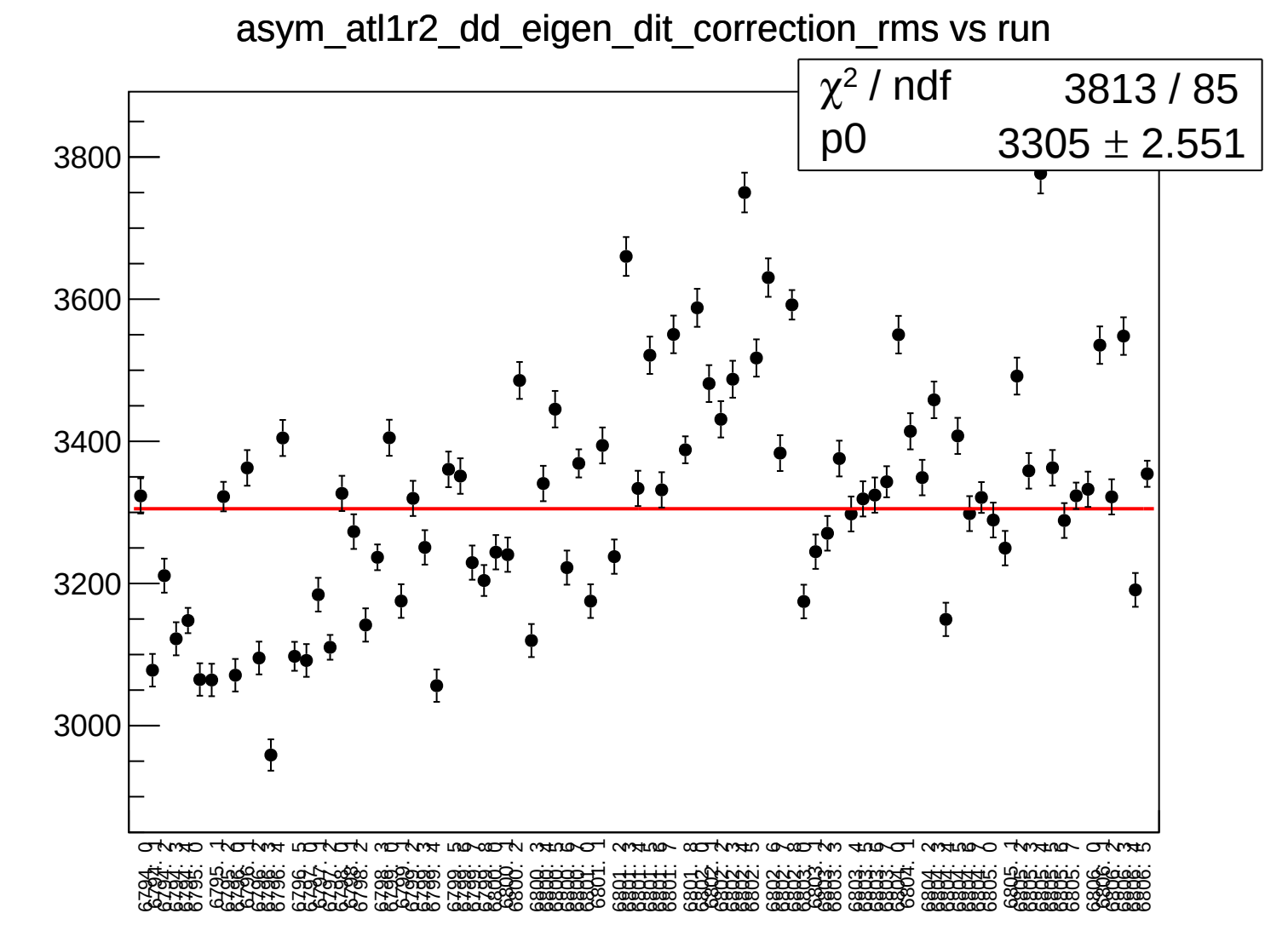

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 89.9 / 85
p0 784.7 ± 1855
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −163.4
Std Dev 0
2
1
0
−1
−2

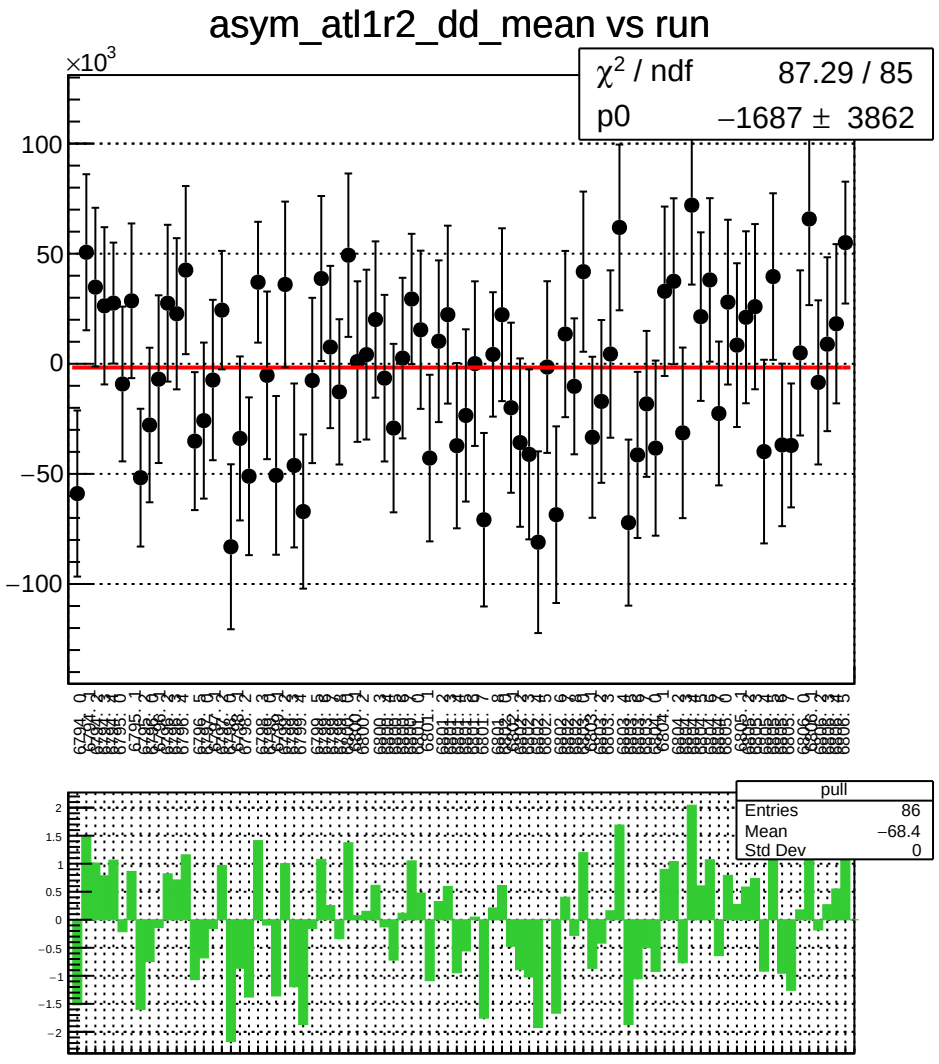

pull1D
Entries 86
Mean 0.008848
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

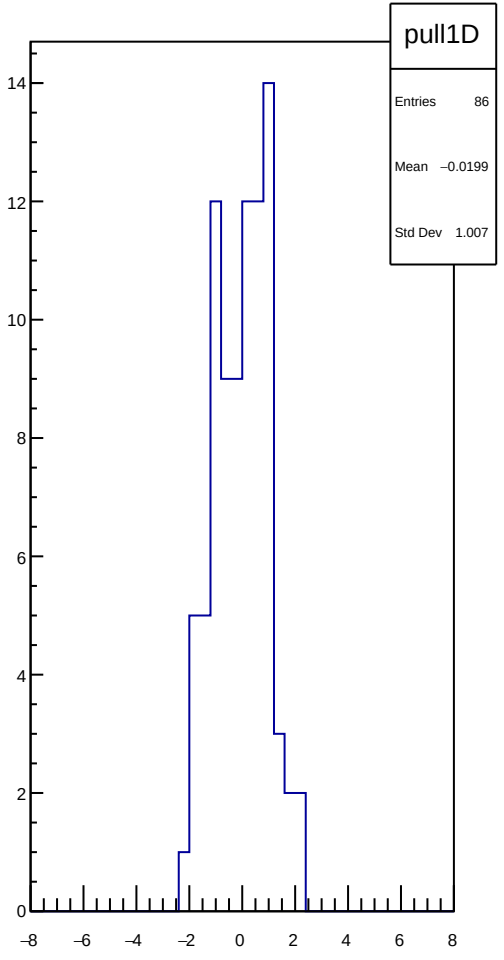

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 101.3 / 85
p0 1701 ± 1.312
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660

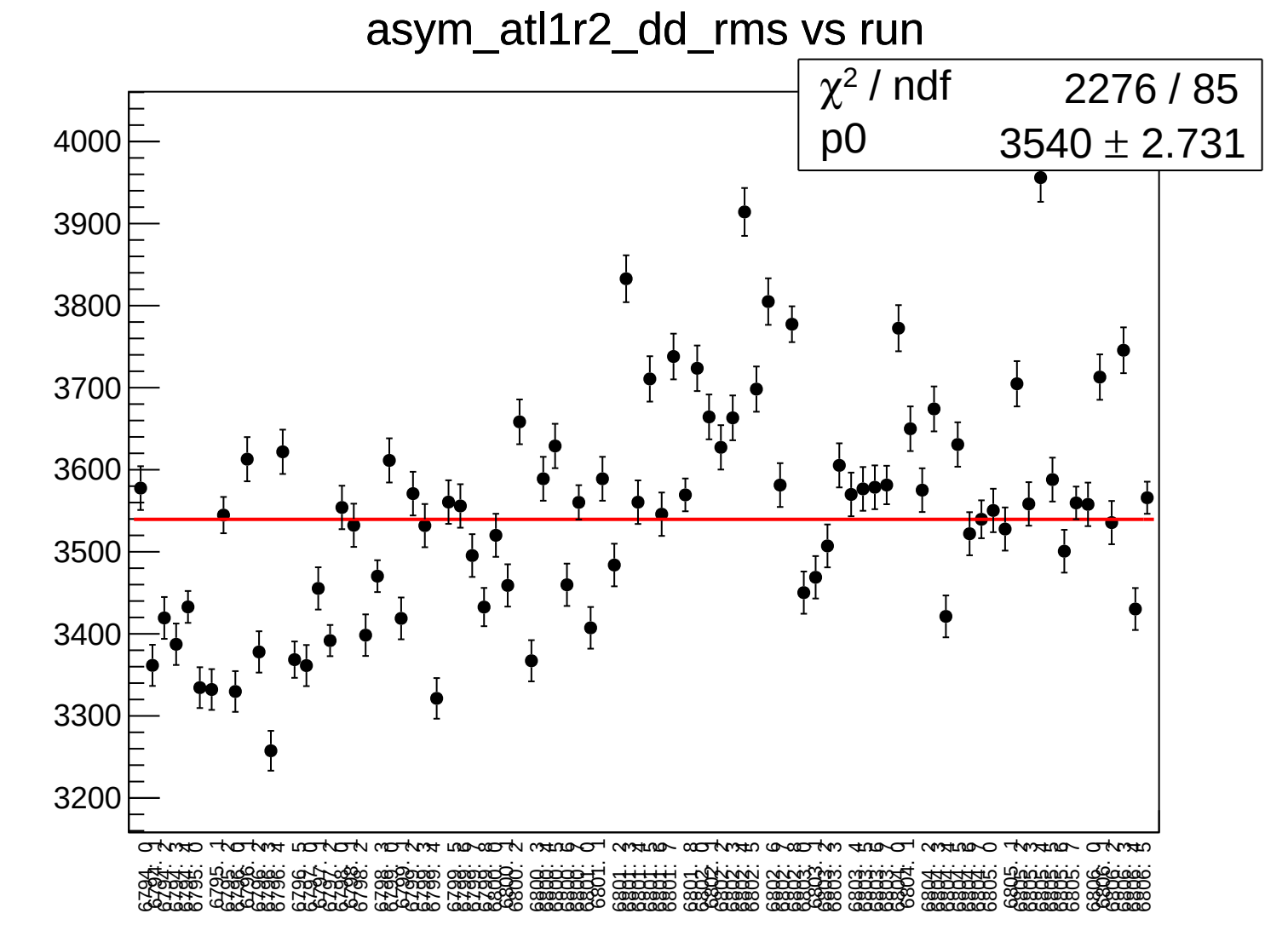

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.79 / 85
p0 2540 ± 3608
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

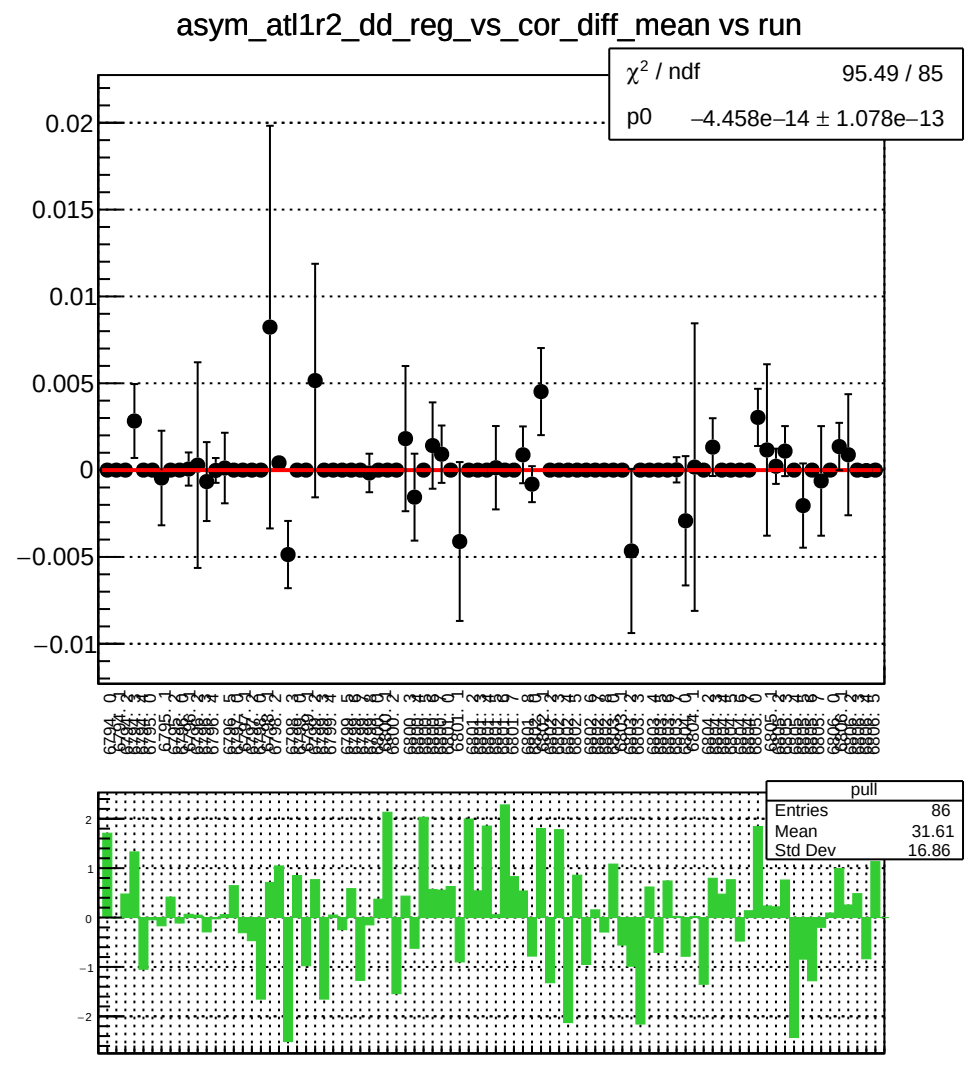

pull1D
Entries 86
Mean 0.02474
Std Dev 0.9749
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

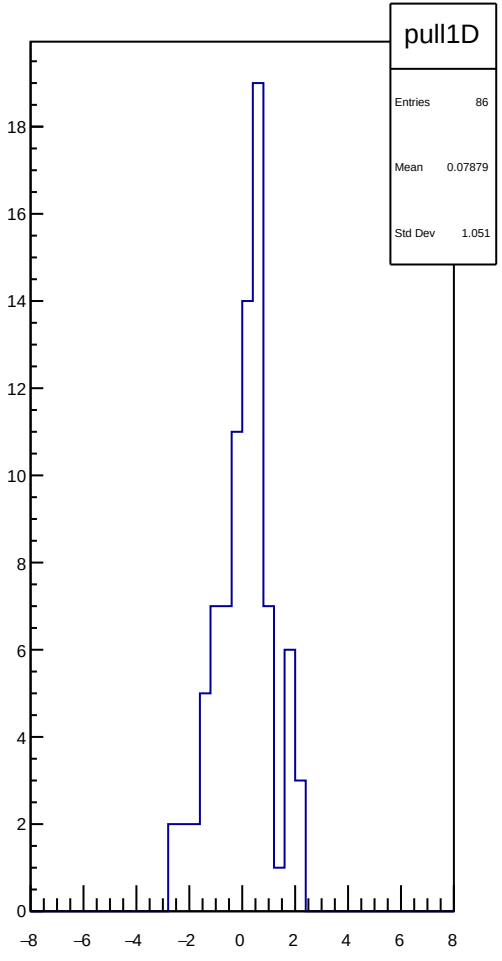

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3813 / 85
p0 3305 ± 2.551
3800
3600
3400
3200
3000

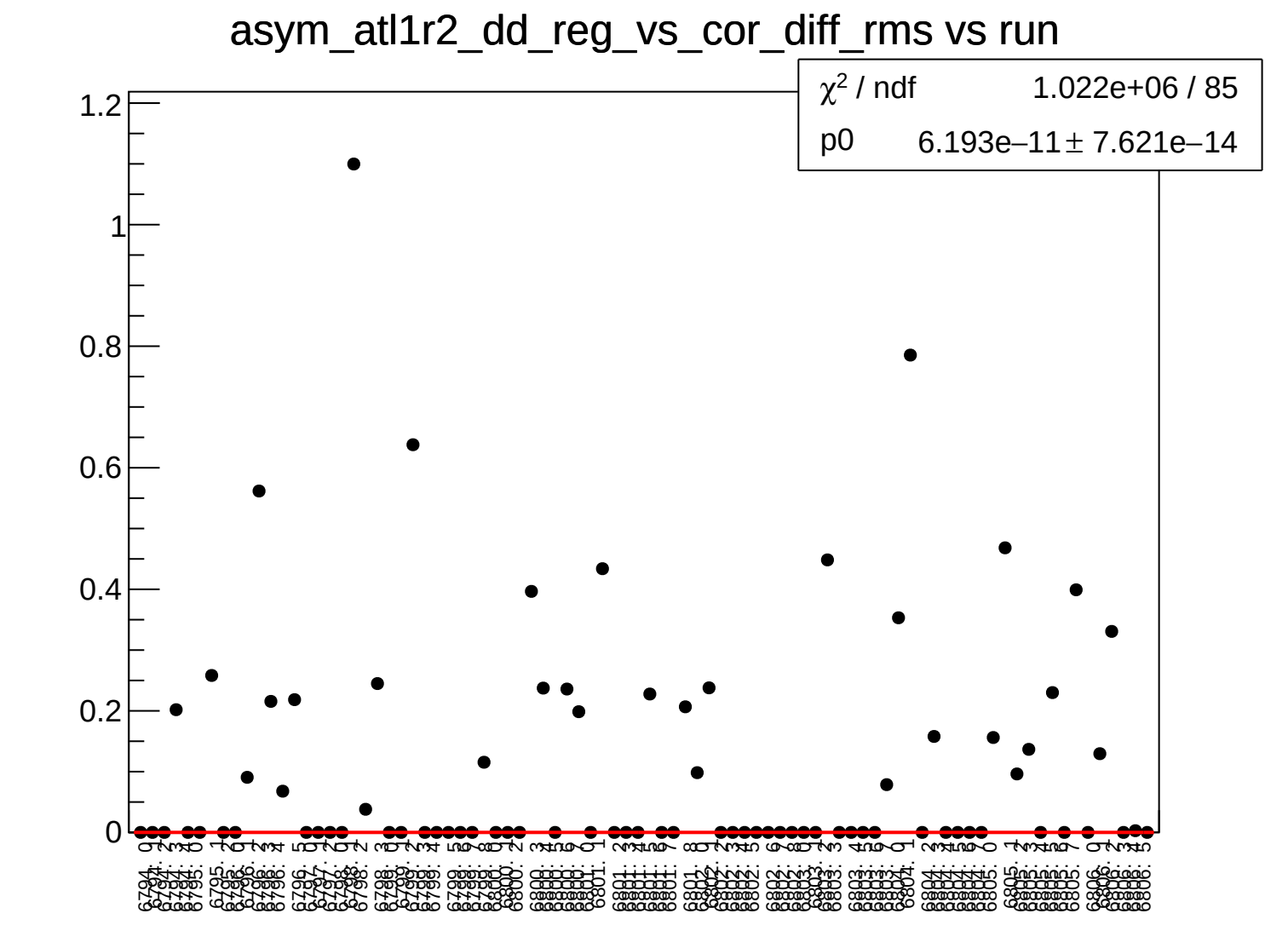

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.29 / 85
p0 −1687 ± 3862
100
50
0
−50
−100
pull
Entries 86
Mean −68.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

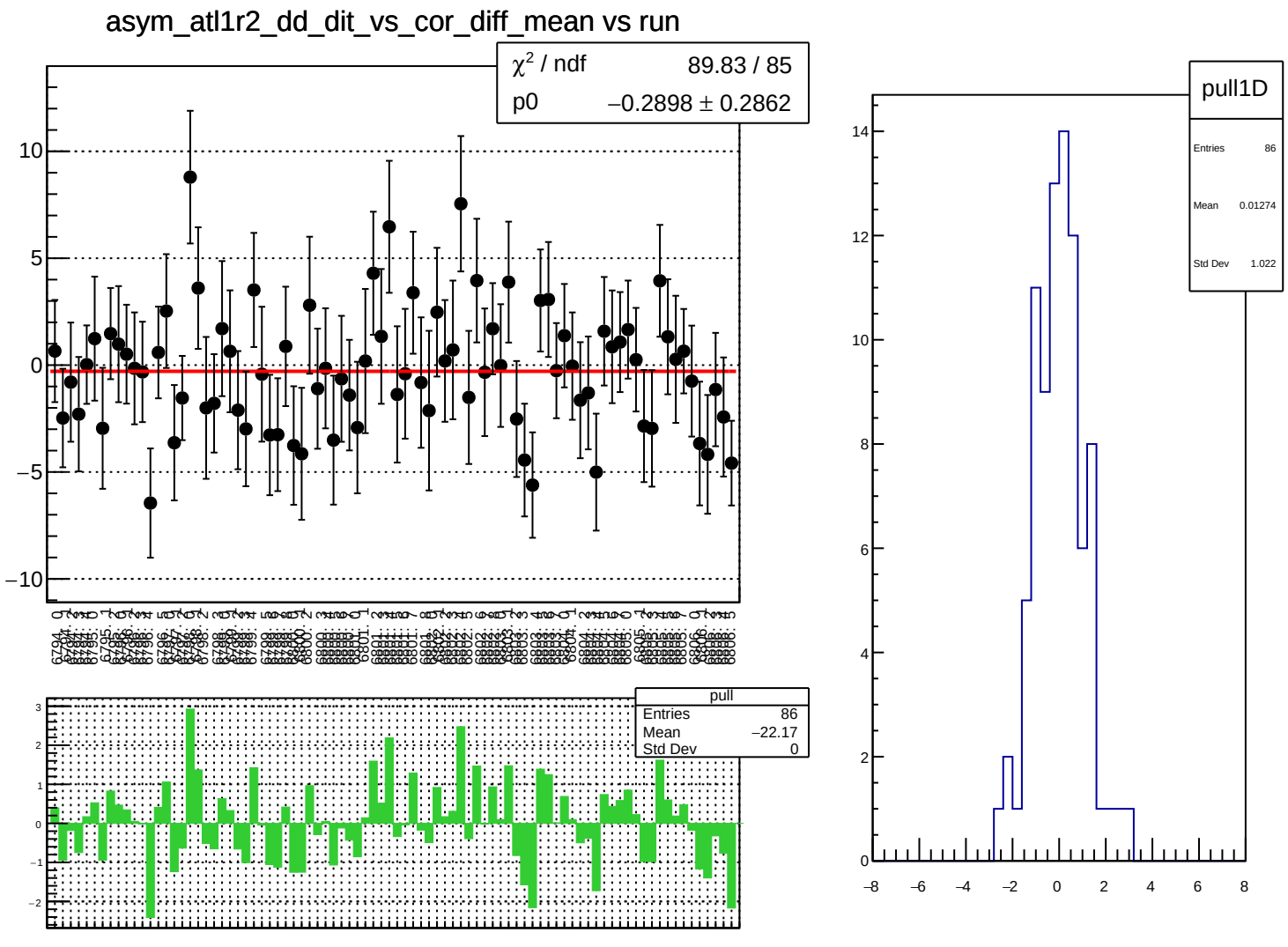

pull1D
Entries 86
Mean −0.0199
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

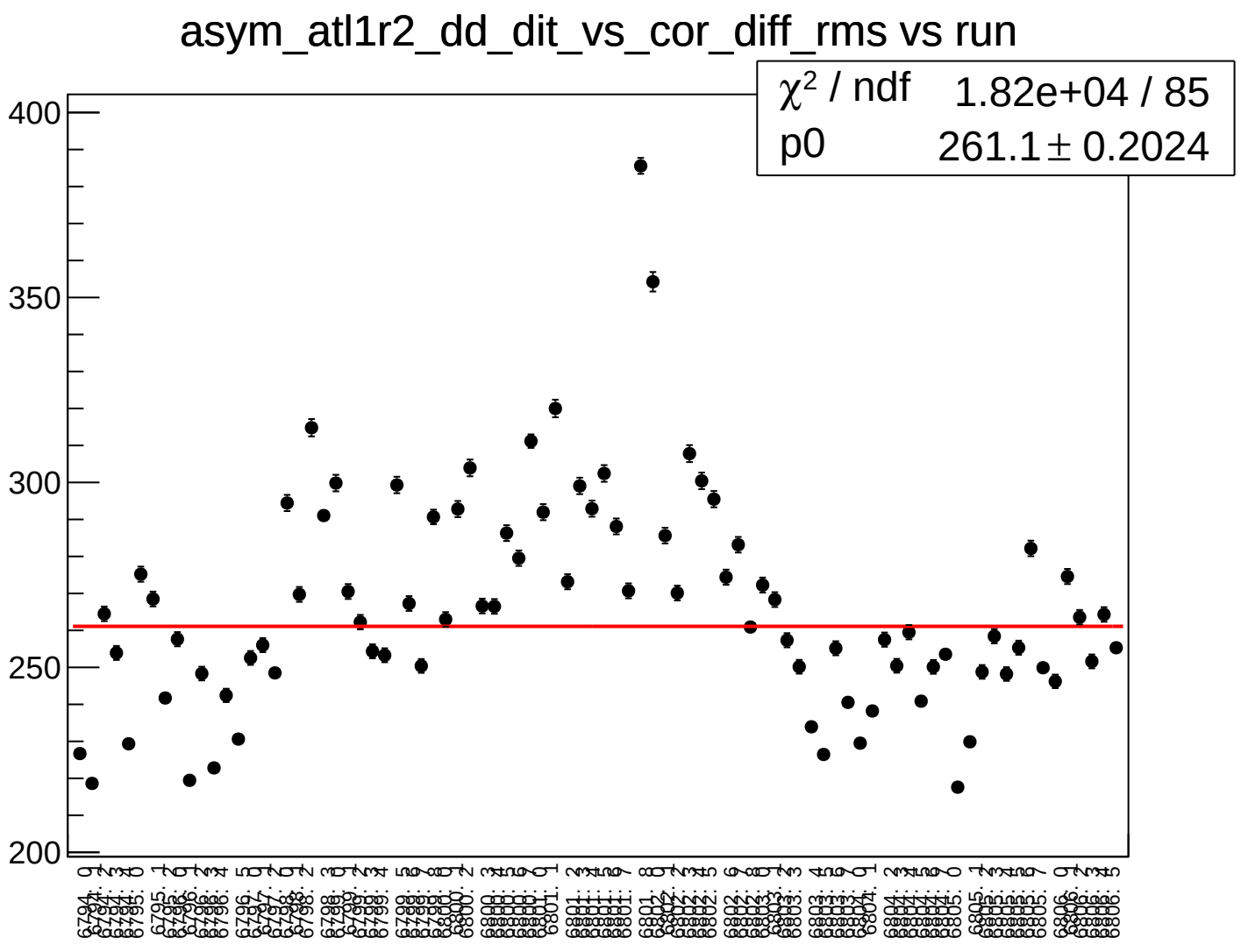

asym_atl1r2_dd_rms vs run
χ² / ndf 2276 / 85
p0 3540 ± 2.731
4000
3900
3800
3700
3600
3500
3400
3300
3200

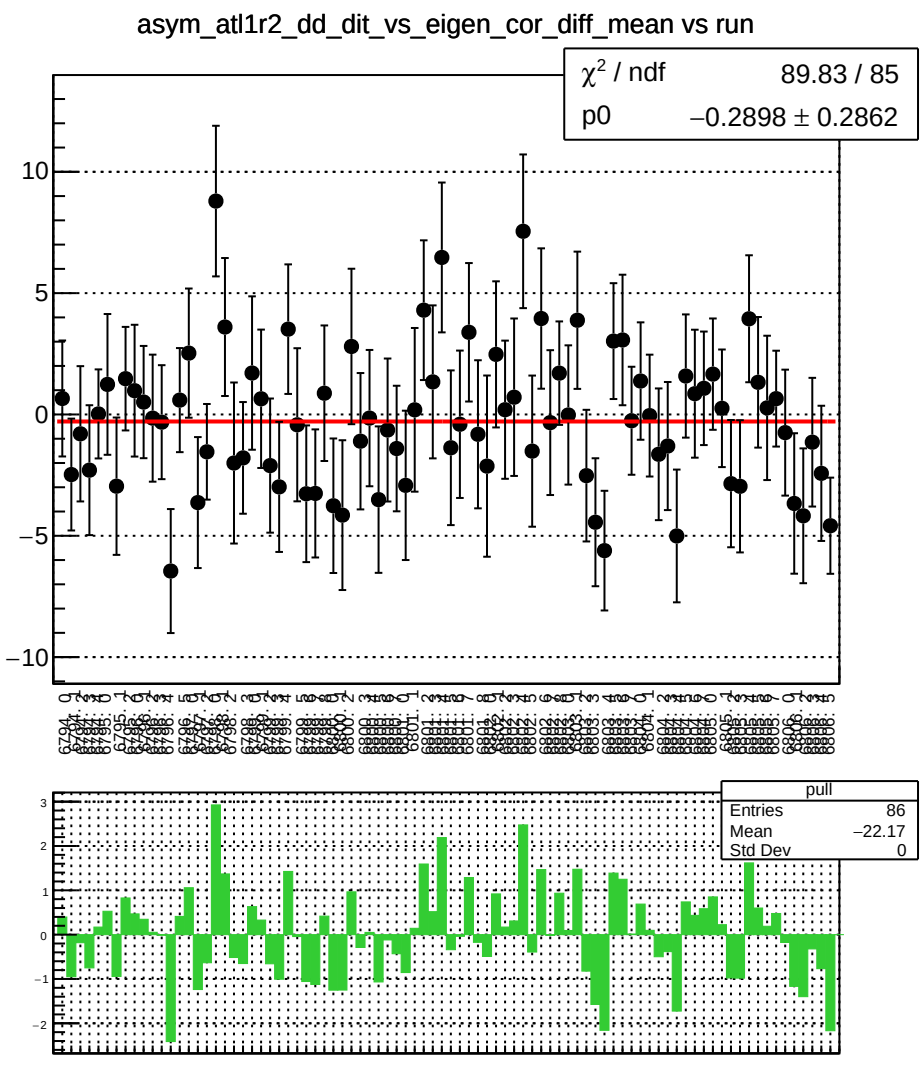

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.49 / 85
p0 −4.458e−14 ± 1.078e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 31.61
Std Dev 16.86
2
1
0
−1
−2

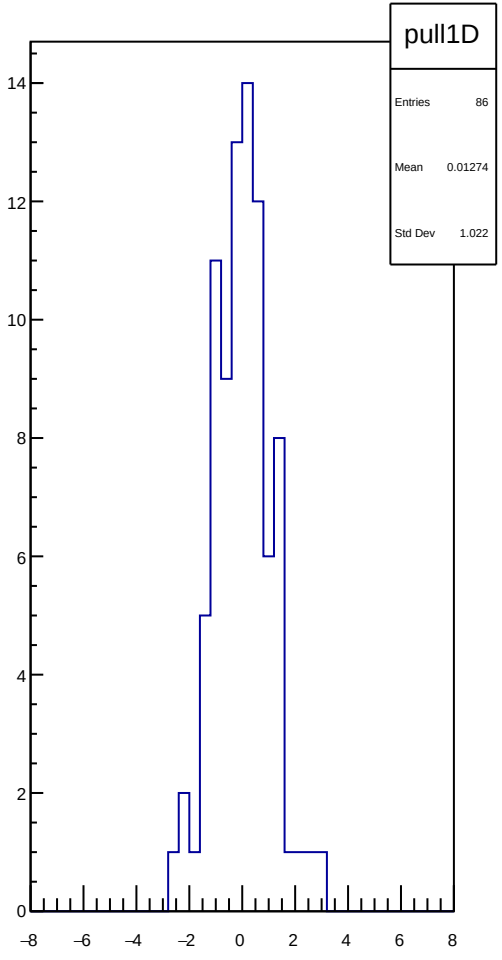

pull1D
Entries 86
Mean 0.07879
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

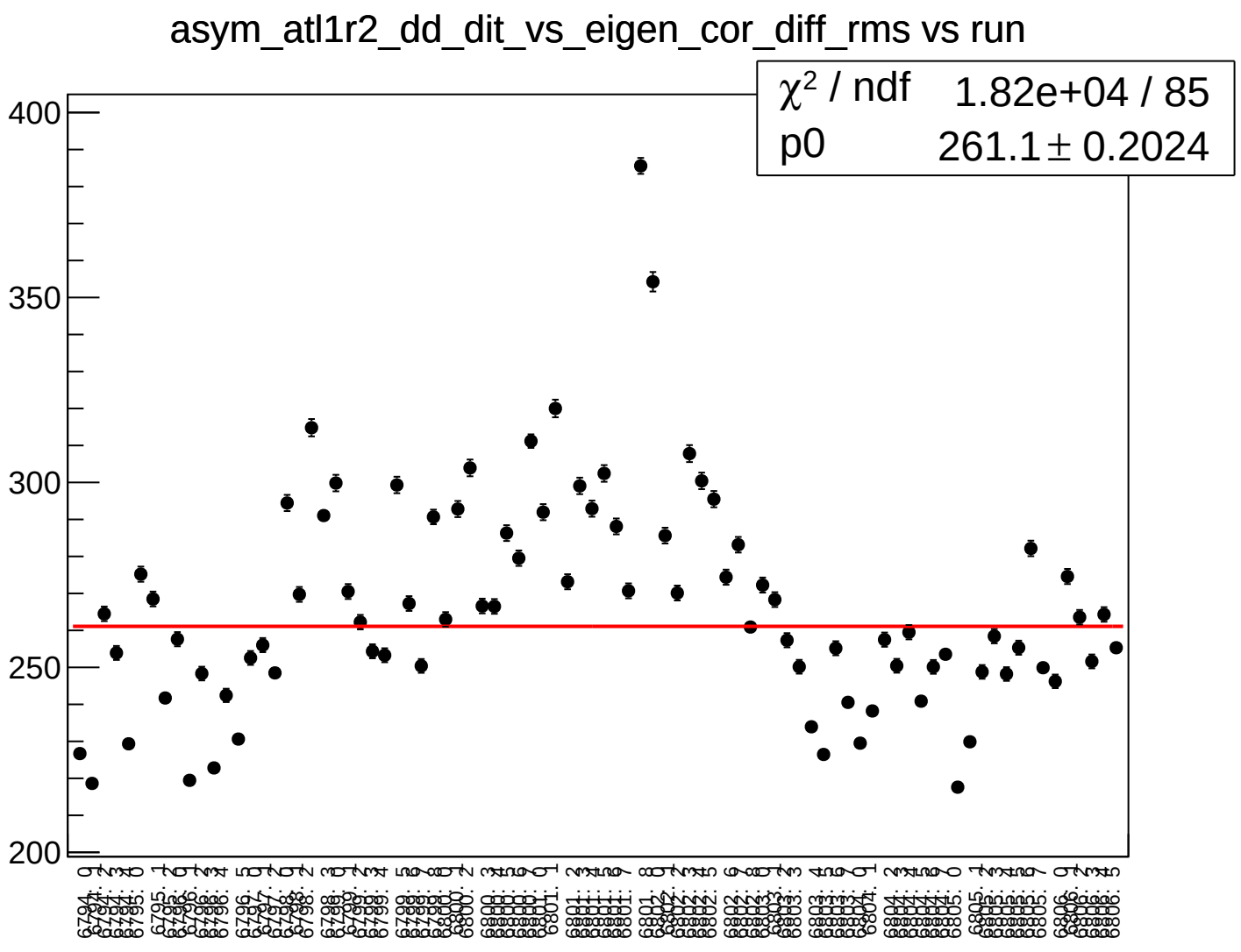

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 85
p0 6.193e−11 ± 7.621e−14
1.2
1
0.8
0.6
0.4
0.2
0

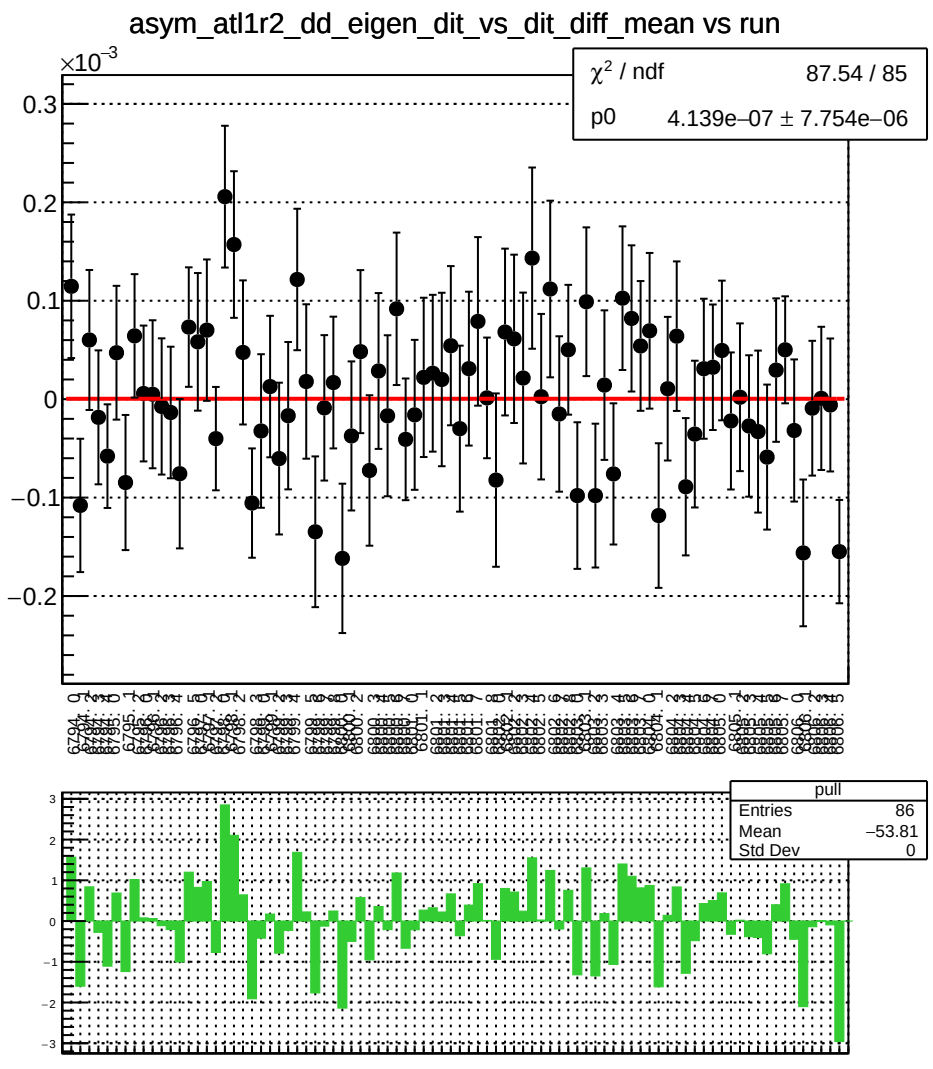

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.83 / 85
p0 −0.2898 ± 0.2862
pull
Entries 86
Mean −22.17
Std Dev 0
pull1D
Entries 86
Mean 0.01274
Std Dev 1.022

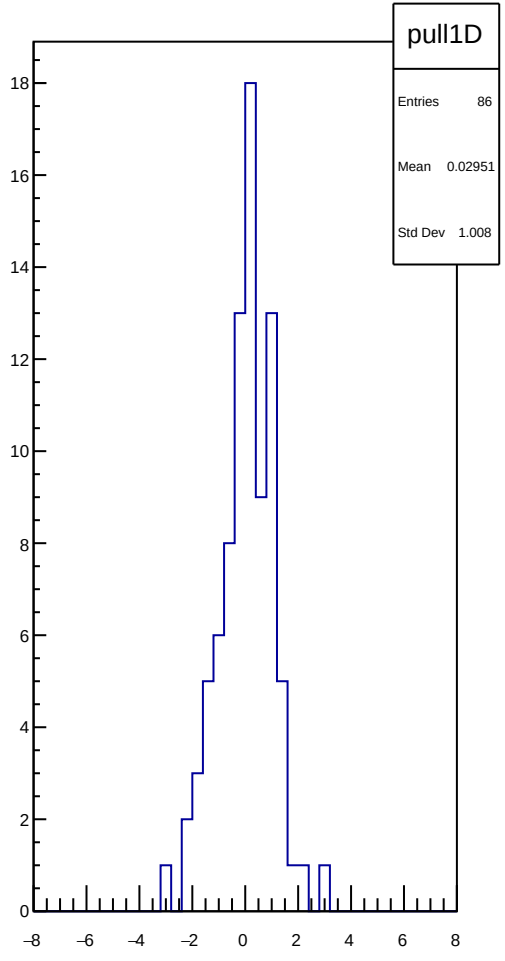

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.82e+04 / 85
p0 261.1 ± 0.2024
400
350
300
250
200

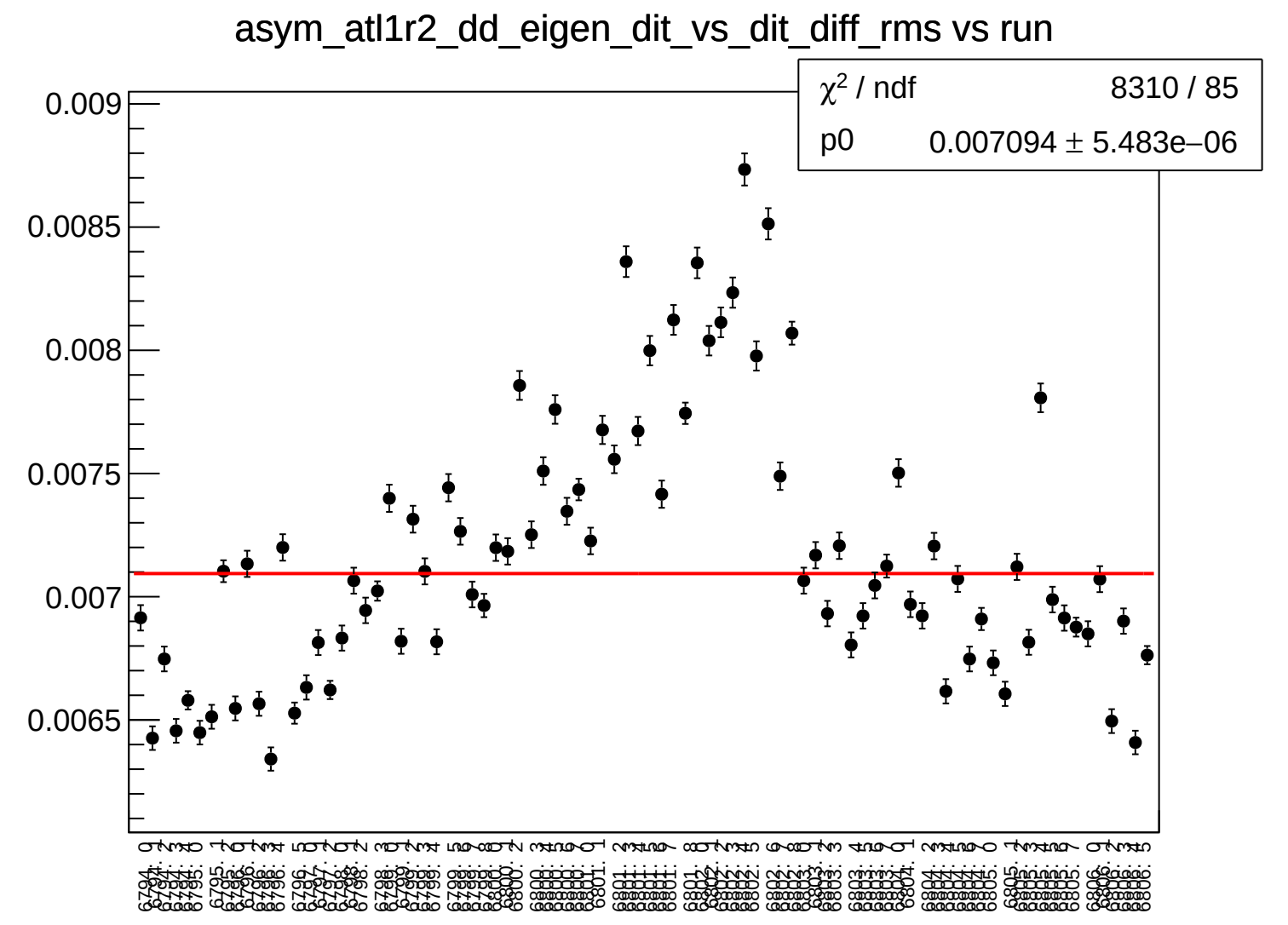

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.83 / 85
p0 −0.2898 ± 0.2862
pull
Entries 86
Mean −22.17
Std Dev 0

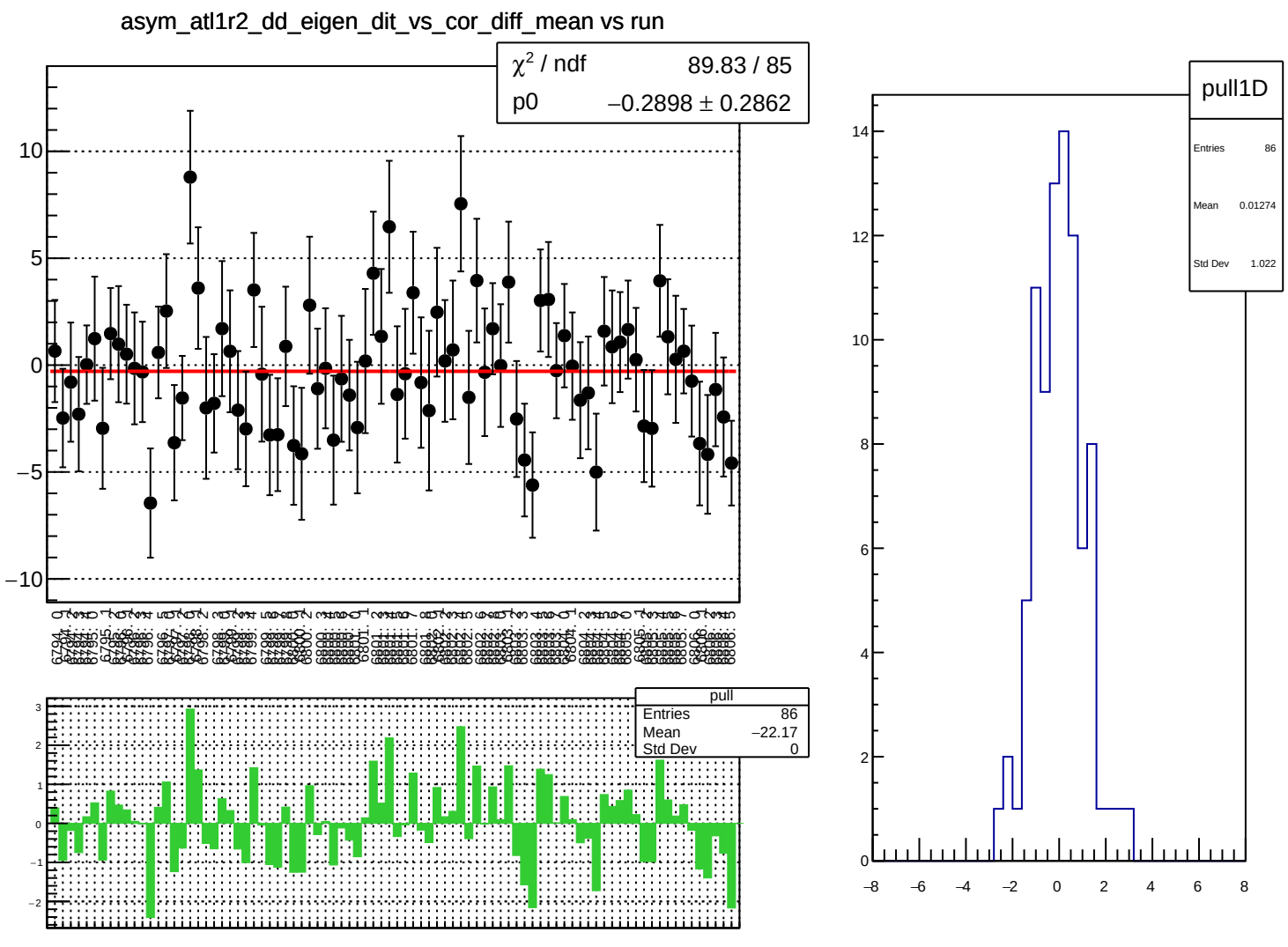

pull1D
Entries 86
Mean 0.01274
Std Dev 1.022

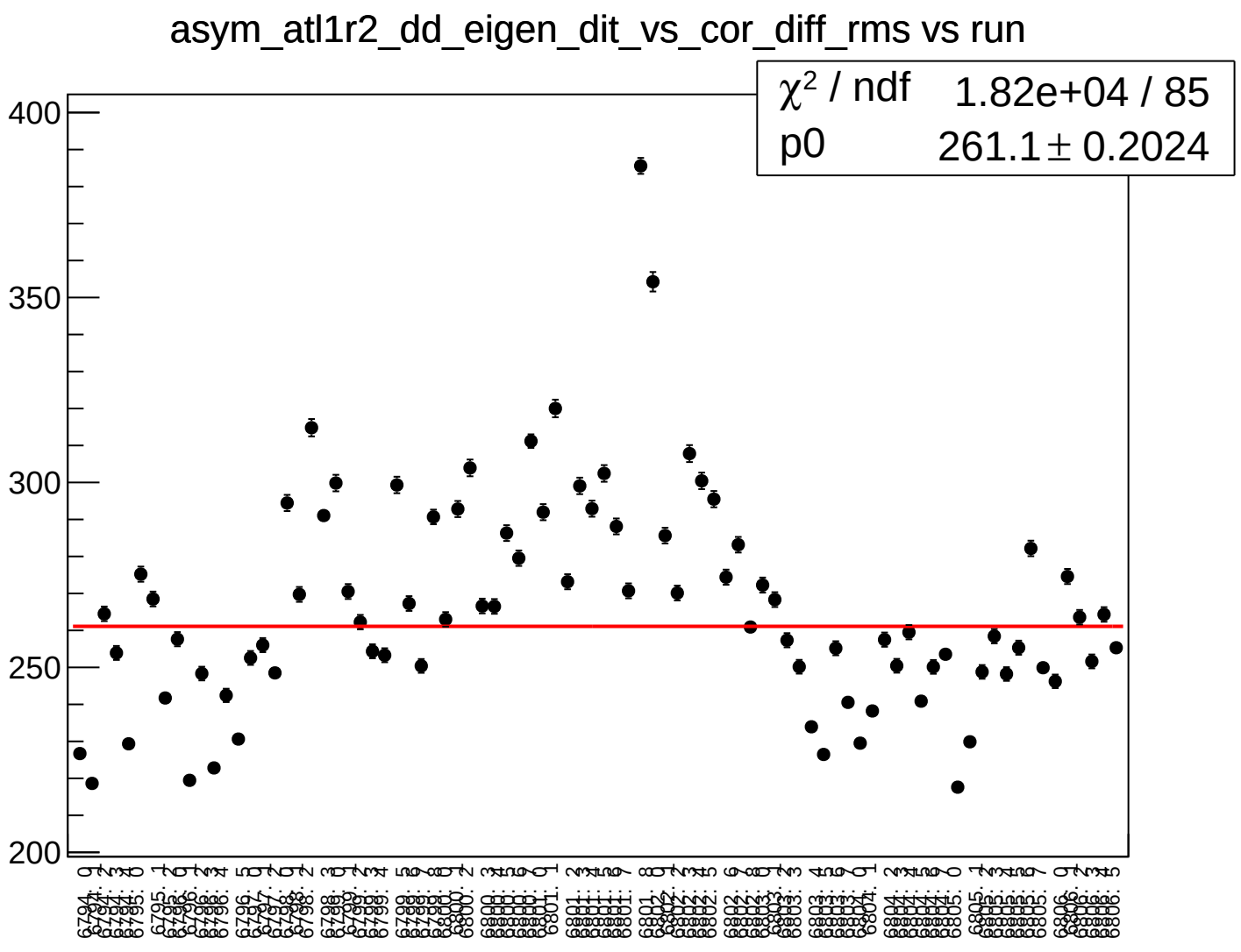

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.82e+04 / 85
p0 261.1 ± 0.2024
400
350
300
250
200

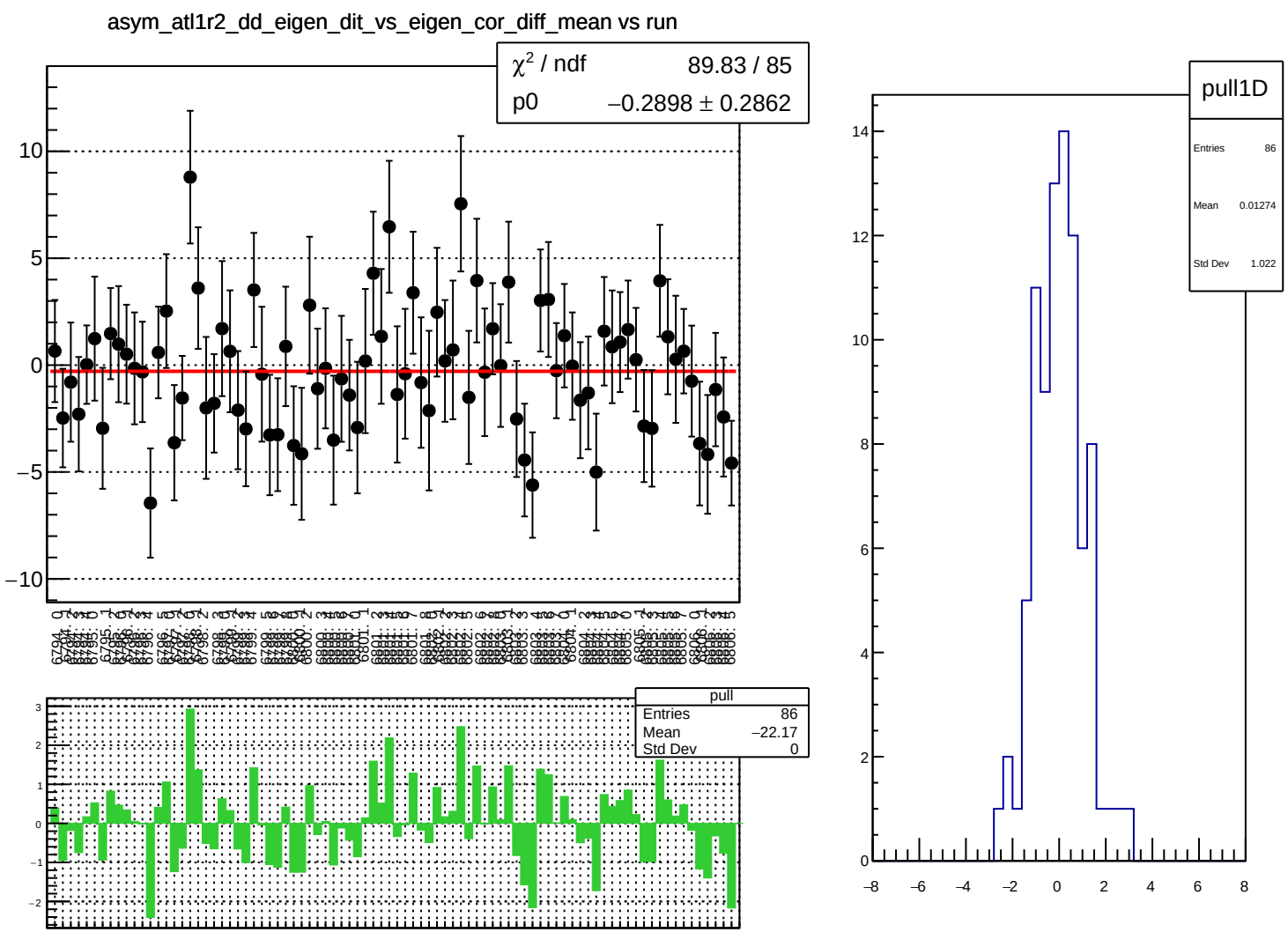

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.54 / 85
p0 4.139e−07 ± 7.754e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −53.81
Std Dev 0
3
2
1
0
−1
−2
−3

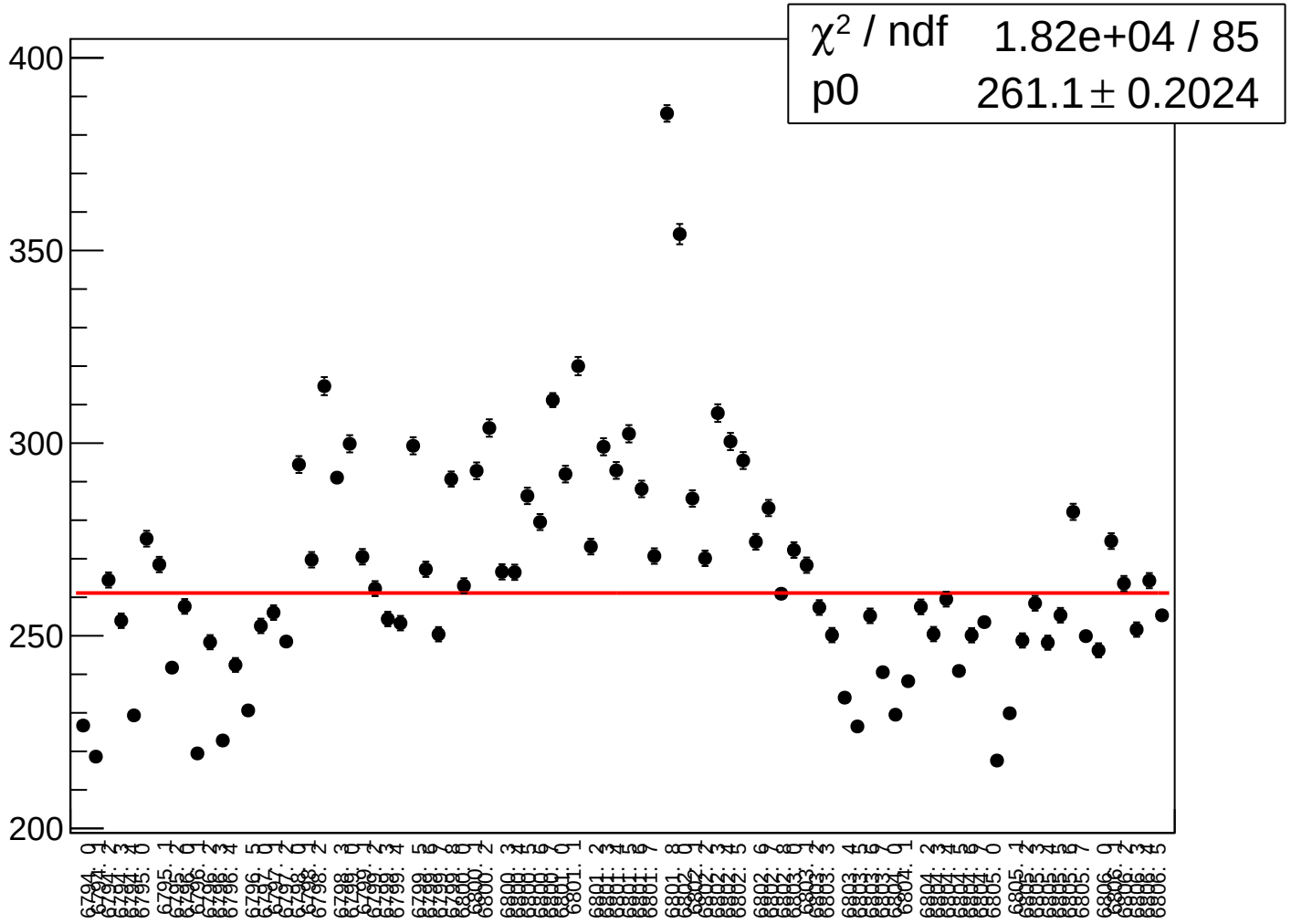

pull1D
Entries 86
Mean 0.02951
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

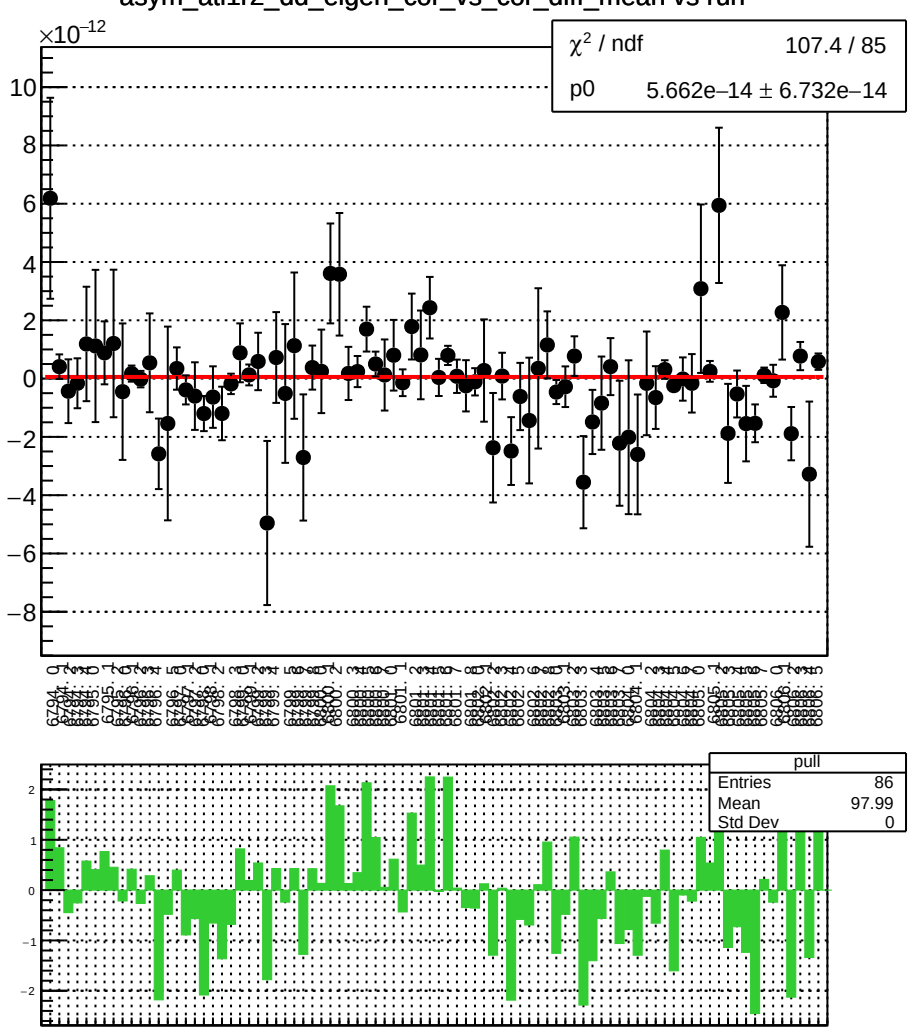

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8310 / 85
p0 0.007094 ± 5.483e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065

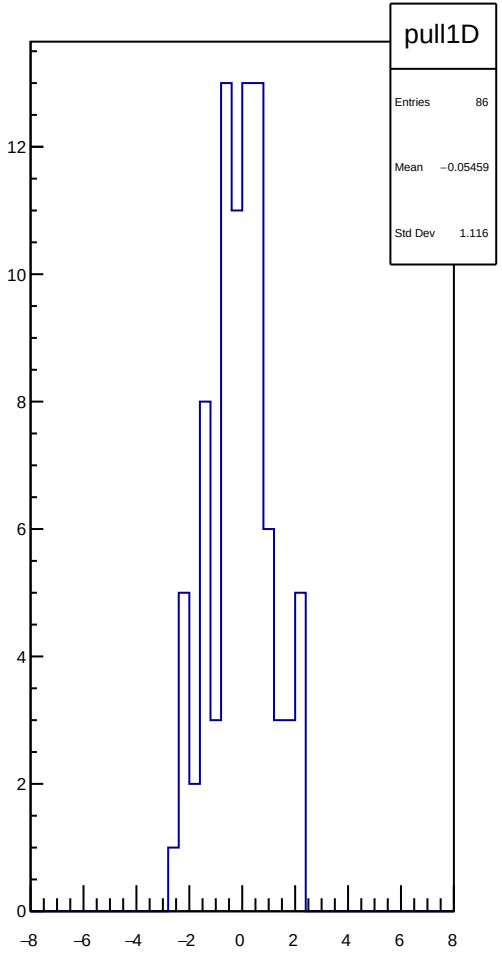

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.83 / 85
p0 −0.2898 ± 0.2862
pull
Entries 86
Mean −22.17
Std Dev 0
pull1D
Entries 86
Mean 0.01274
Std Dev 1.022

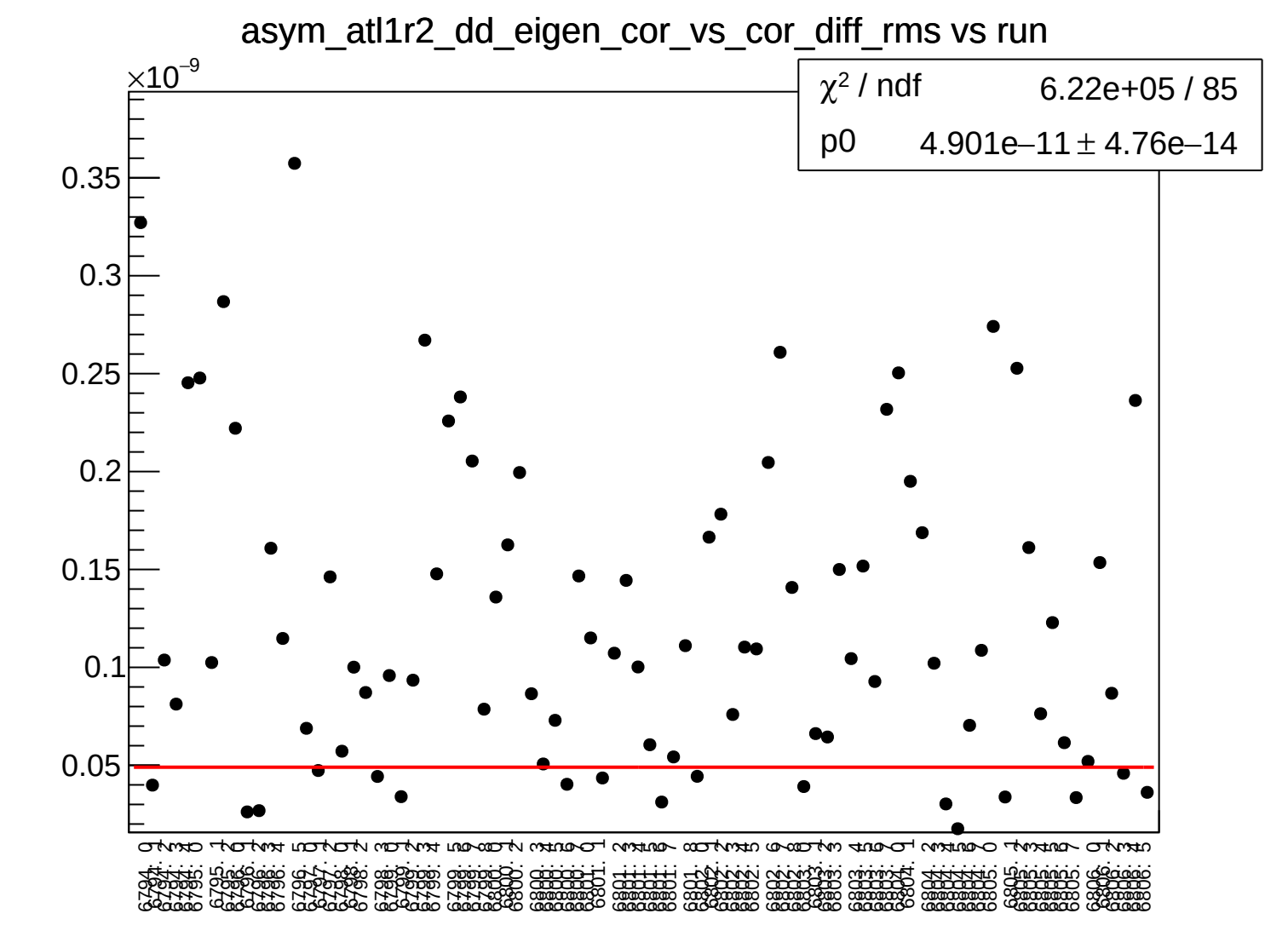

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.82e+04 / 85
p0 261.1 ± 0.2024
400
350
300
250
200

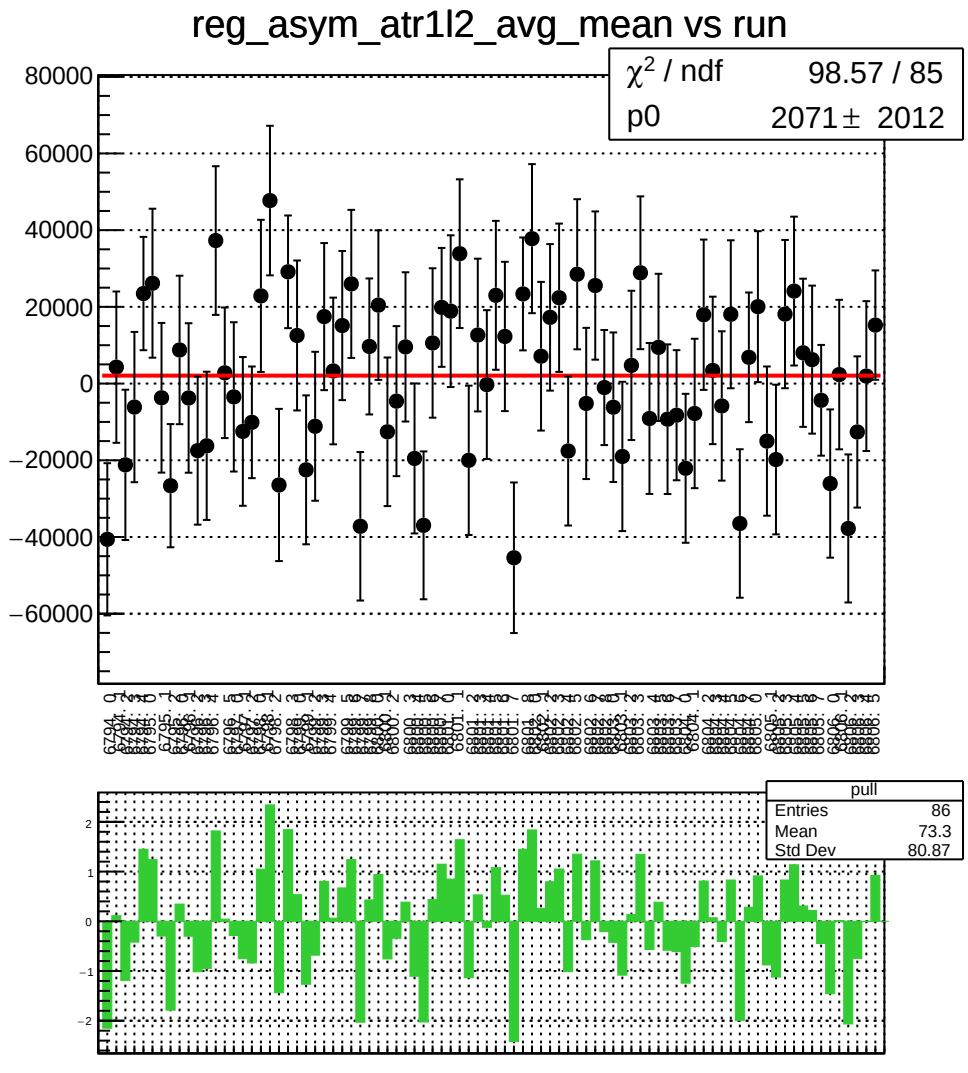

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.83 / 85
p0 −0.2898 ± 0.2862
pull
Entries 86
Mean −22.17
Std Dev 0
pull1D
Entries 86
Mean 0.01274
Std Dev 1.022

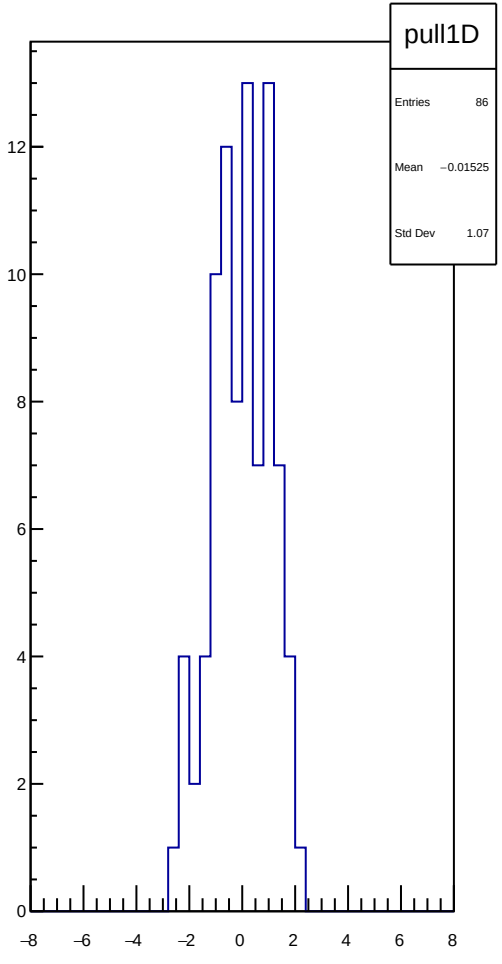

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.82e+04 / 85
p0 261.1 ± 0.2024
400
350
300
250
200

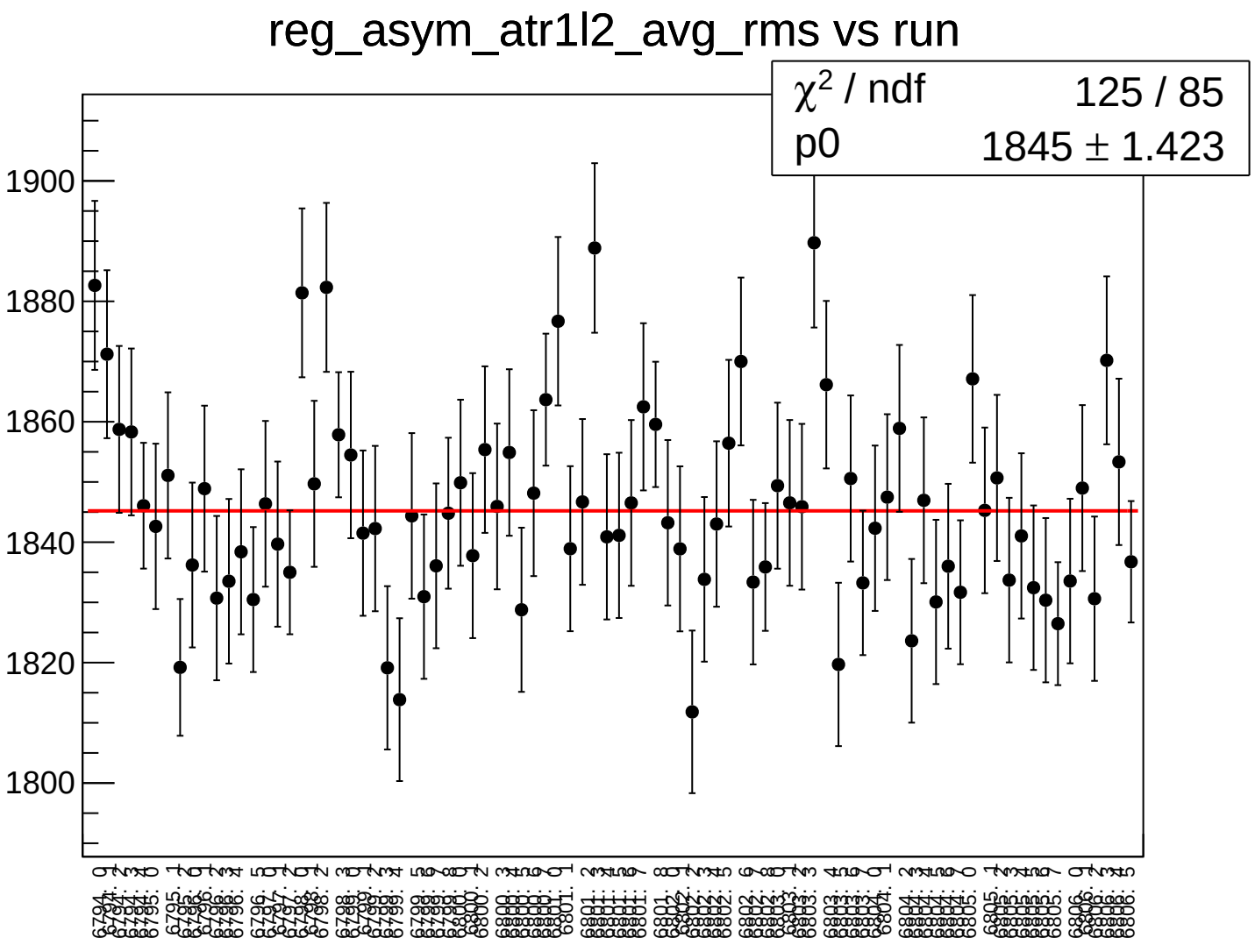

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.4 / 85
p0 5.662e−14 ± 6.732e−14
pull
Entries 86
Mean 97.99
Std Dev 0

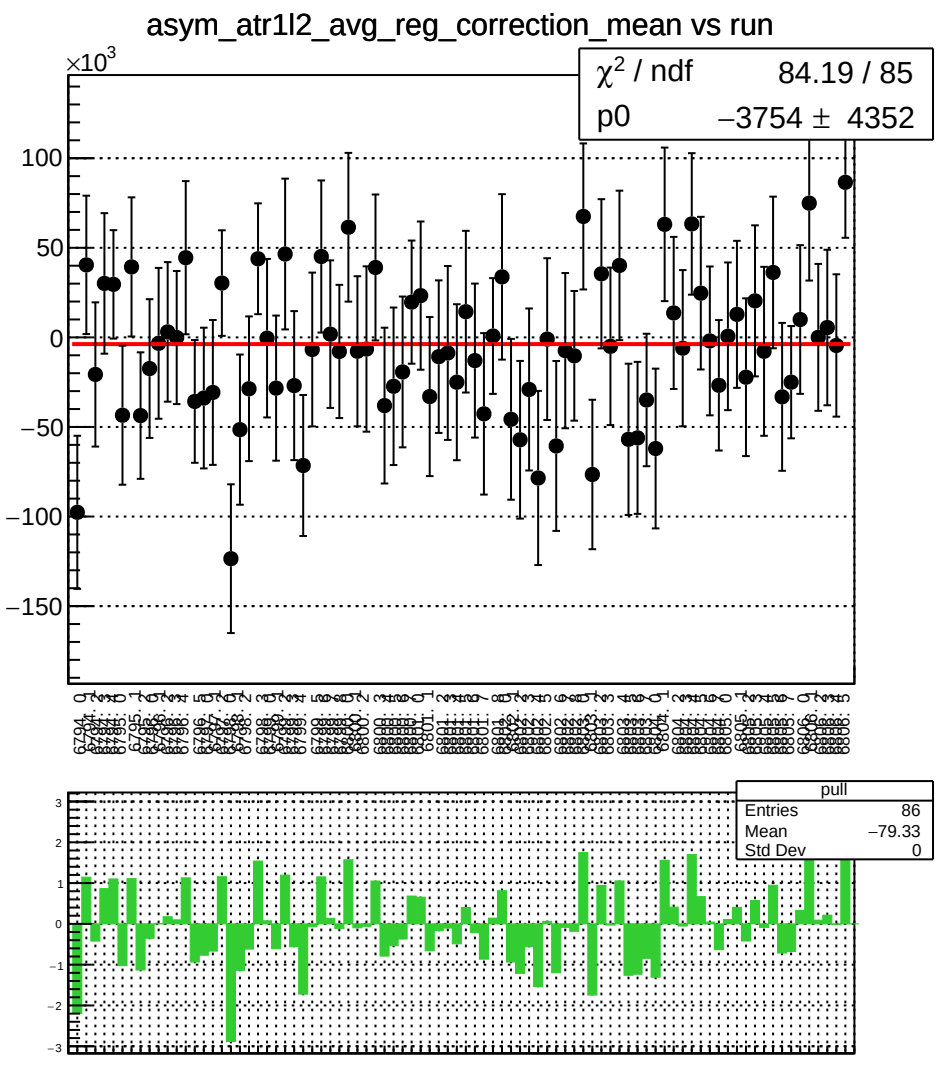

pull1D
Entries 86
Mean −0.05459
Std Dev 1.116

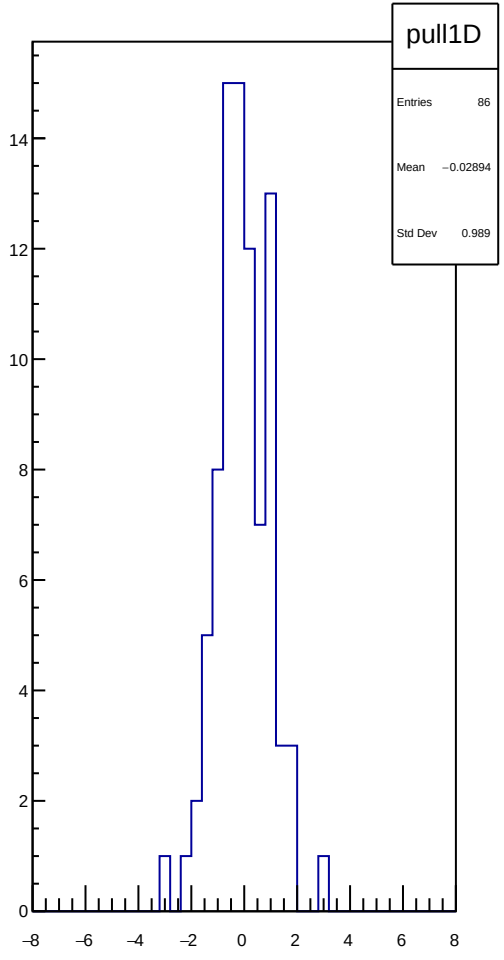

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.22e+05 / 85
p0 4.901e−11 ± 4.76e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

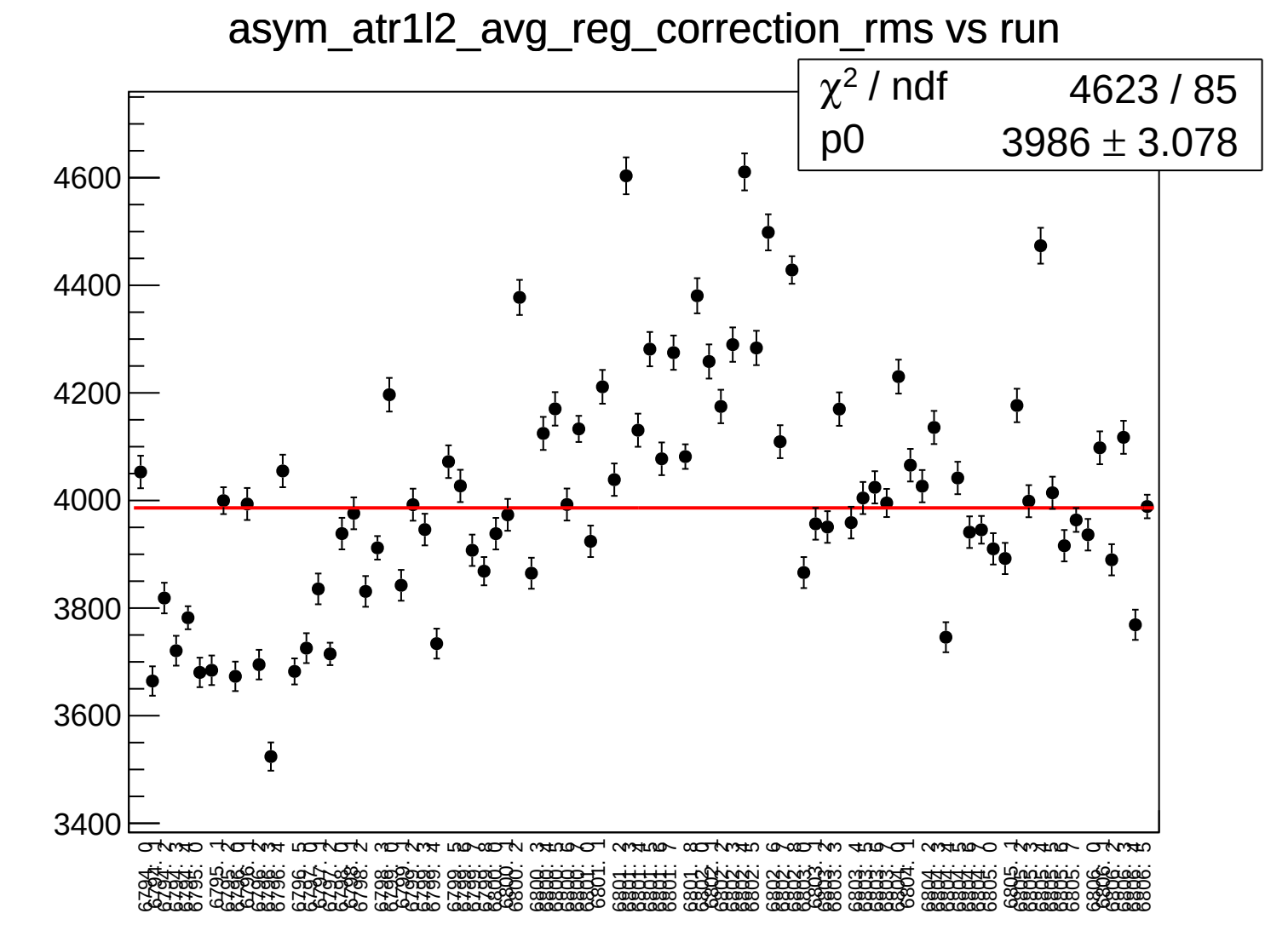

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 98.57 / 85
p0 2071 ± 2012
pull
Entries 86
Mean 73.3
Std Dev 80.87

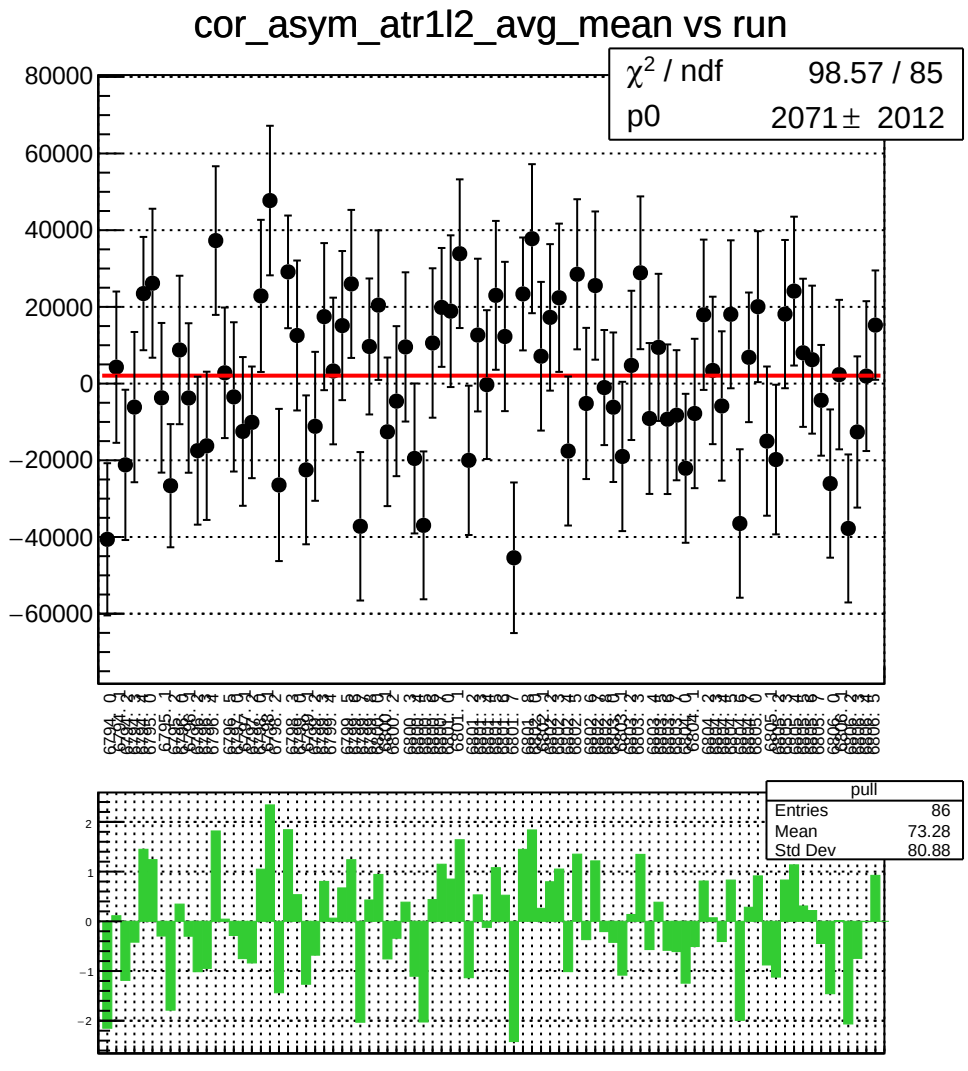

pull1D
Entries 86
Mean −0.01525
Std Dev 1.07

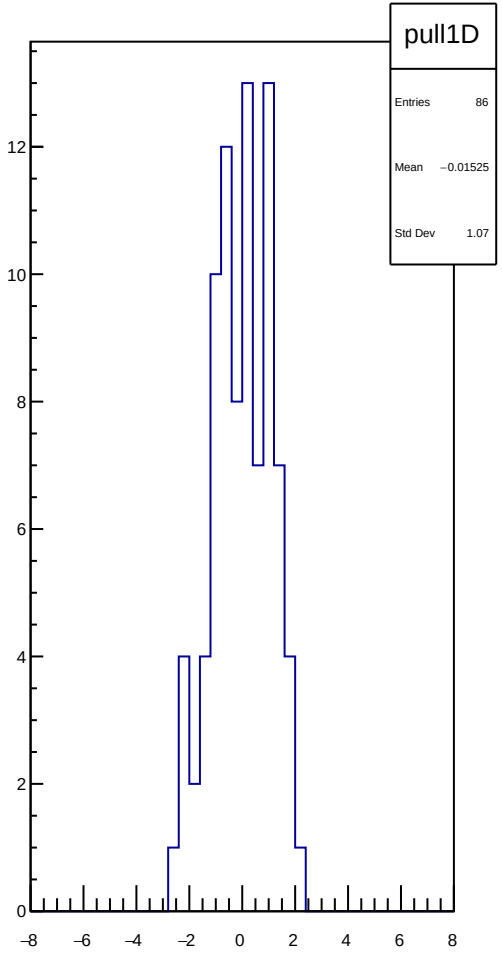

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 125 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

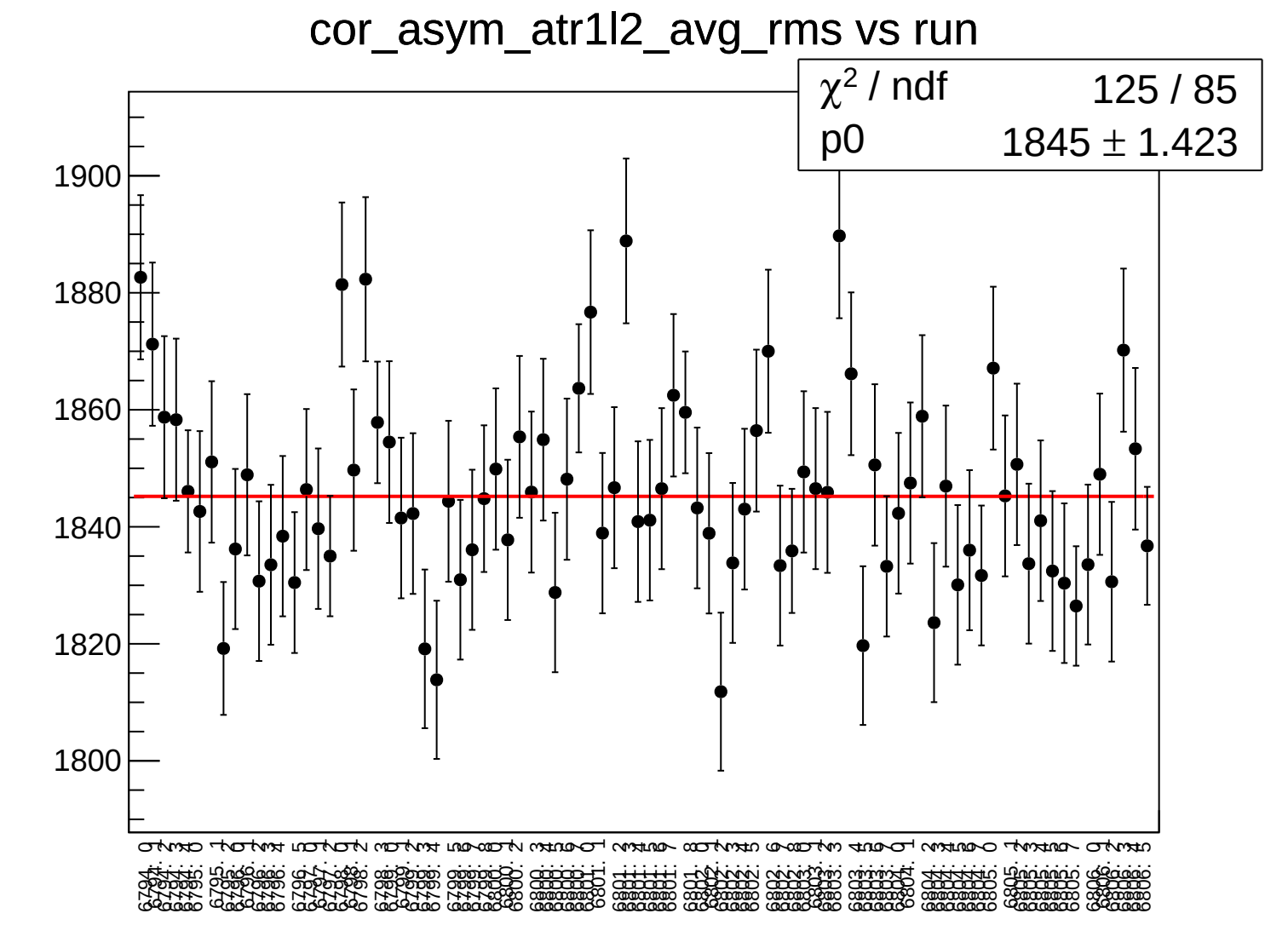

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.19 / 85
p0 −3754 ± 4352
100
50
0
−50
−100
−150
pull
Entries 86
Mean −79.33
Std Dev 0
3
2
1
0
−1
−2
−3

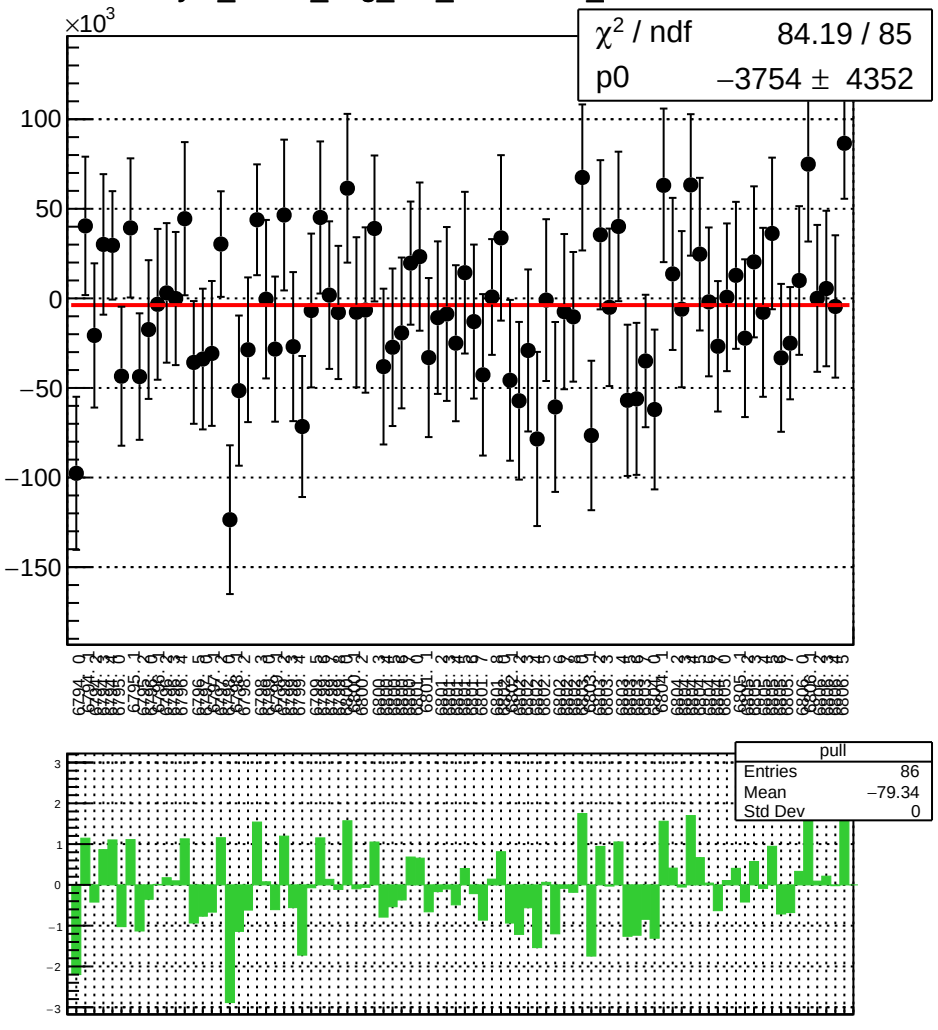

pull1D
Entries 86
Mean −0.02894
Std Dev 0.989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

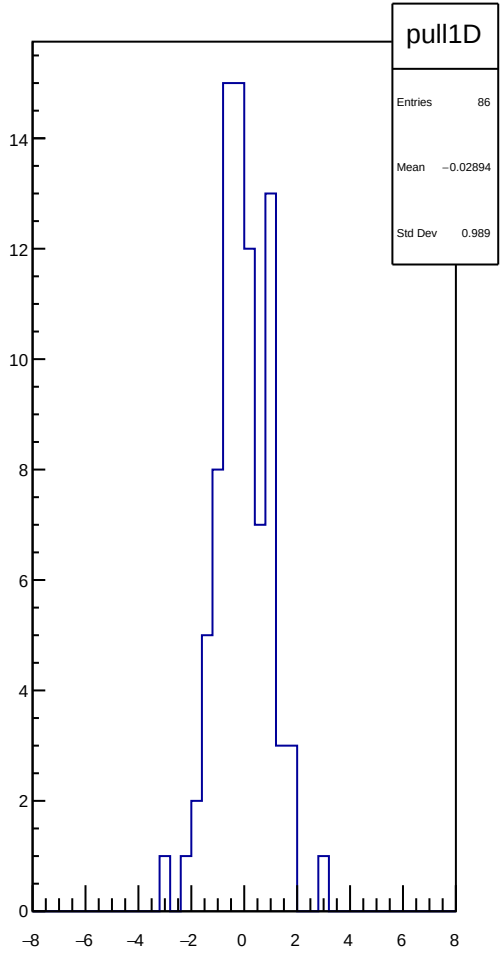

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 4623 / 85
p0 3986 ± 3.078
4600
4400
4200
4000
3800
3600
3400

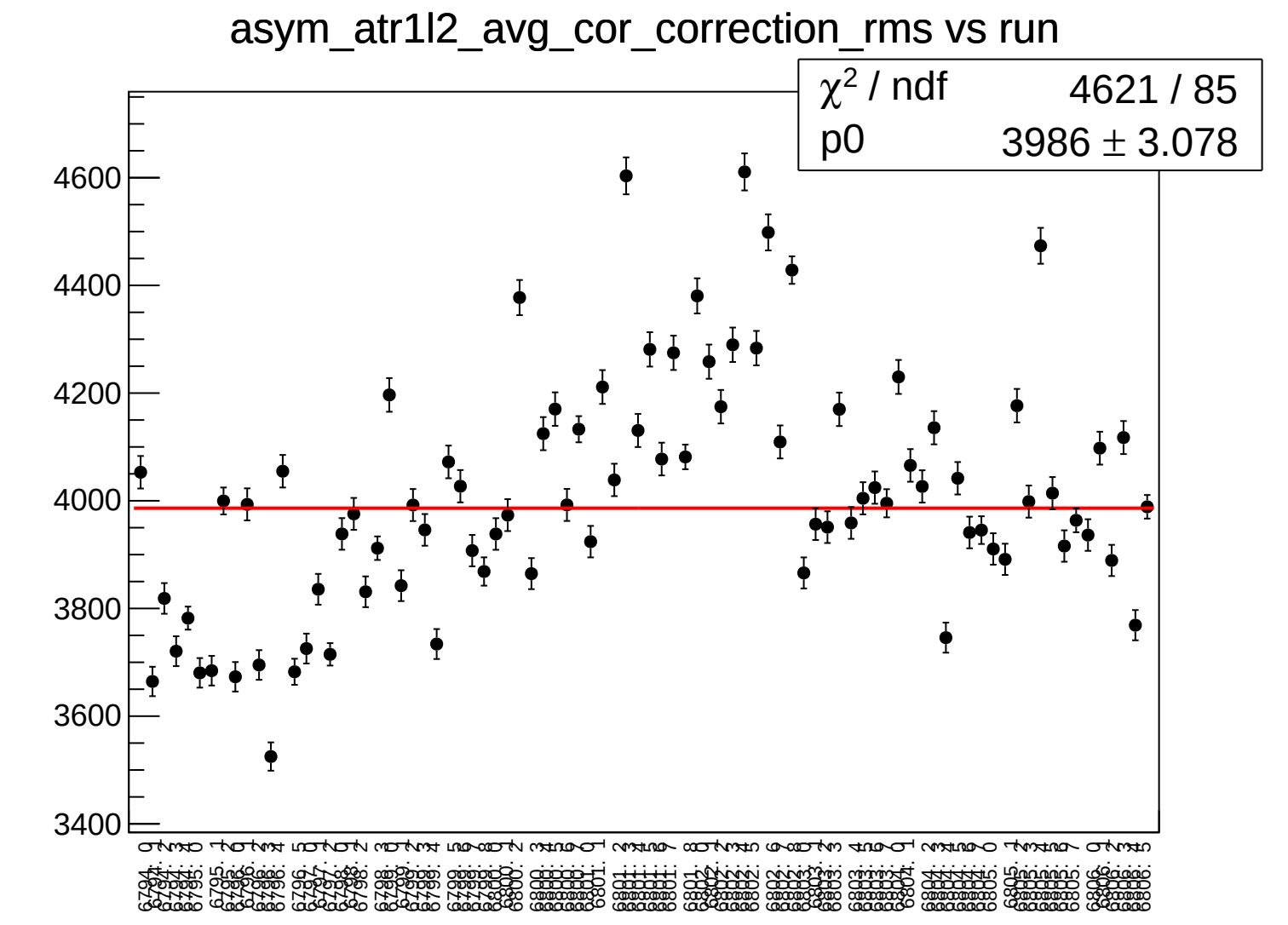

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 98.57 / 85
p0 2071 ± 2012
pull
Entries 86
Mean 73.28
Std Dev 80.88

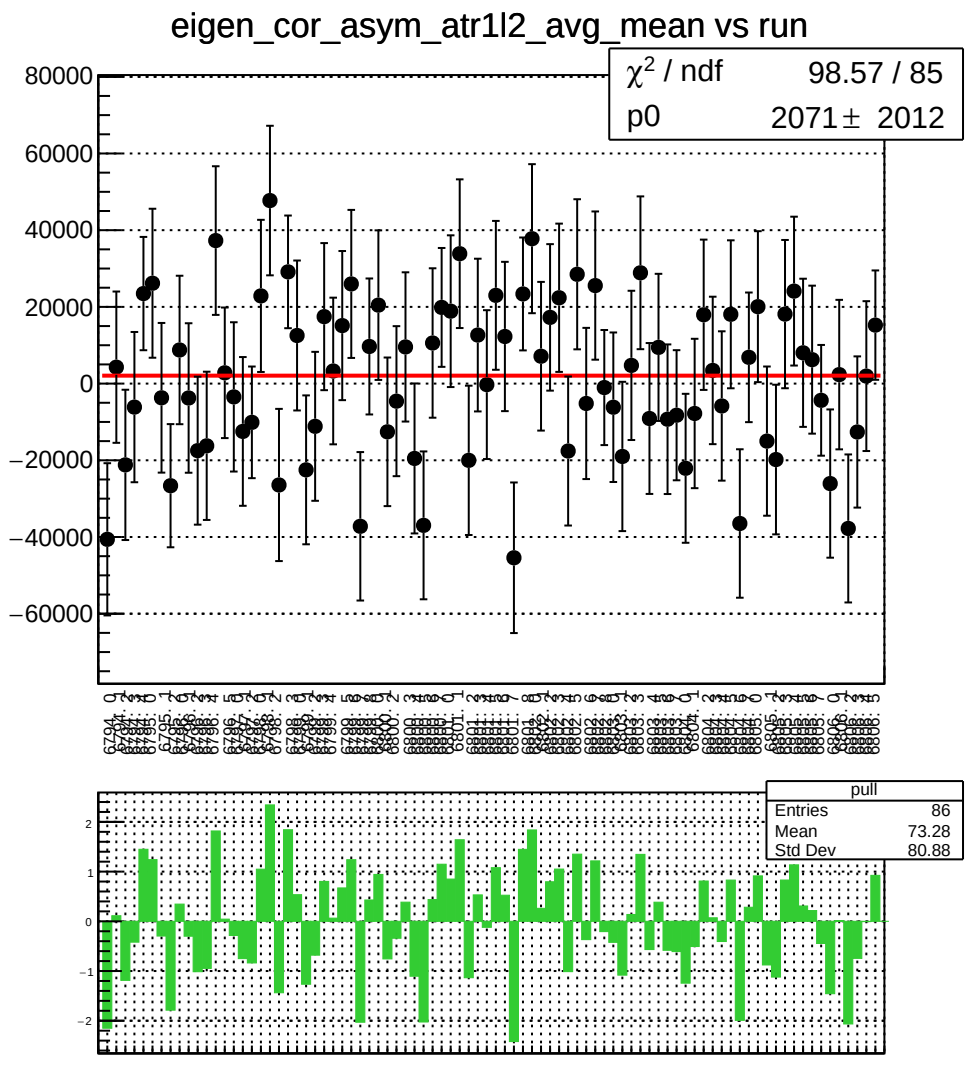

pull1D
Entries 86
Mean −0.01525
Std Dev 1.07

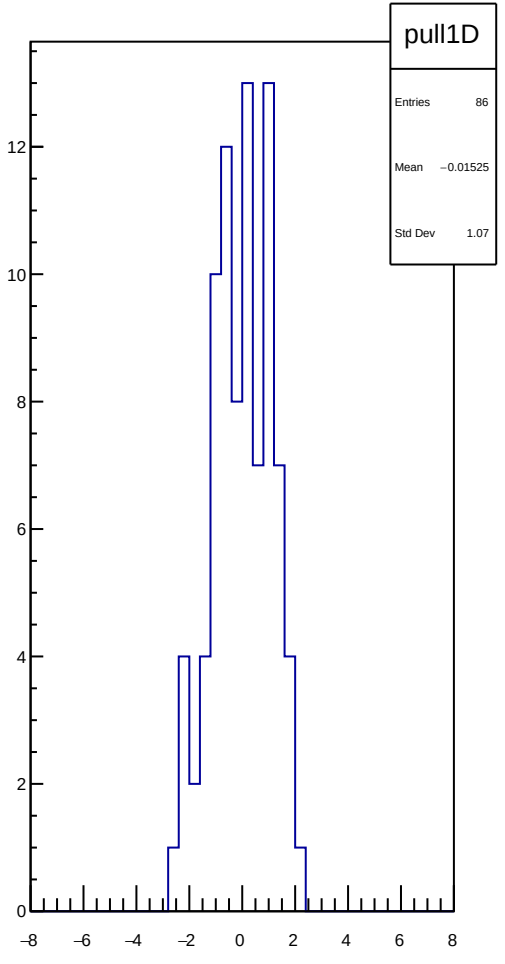

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 125 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

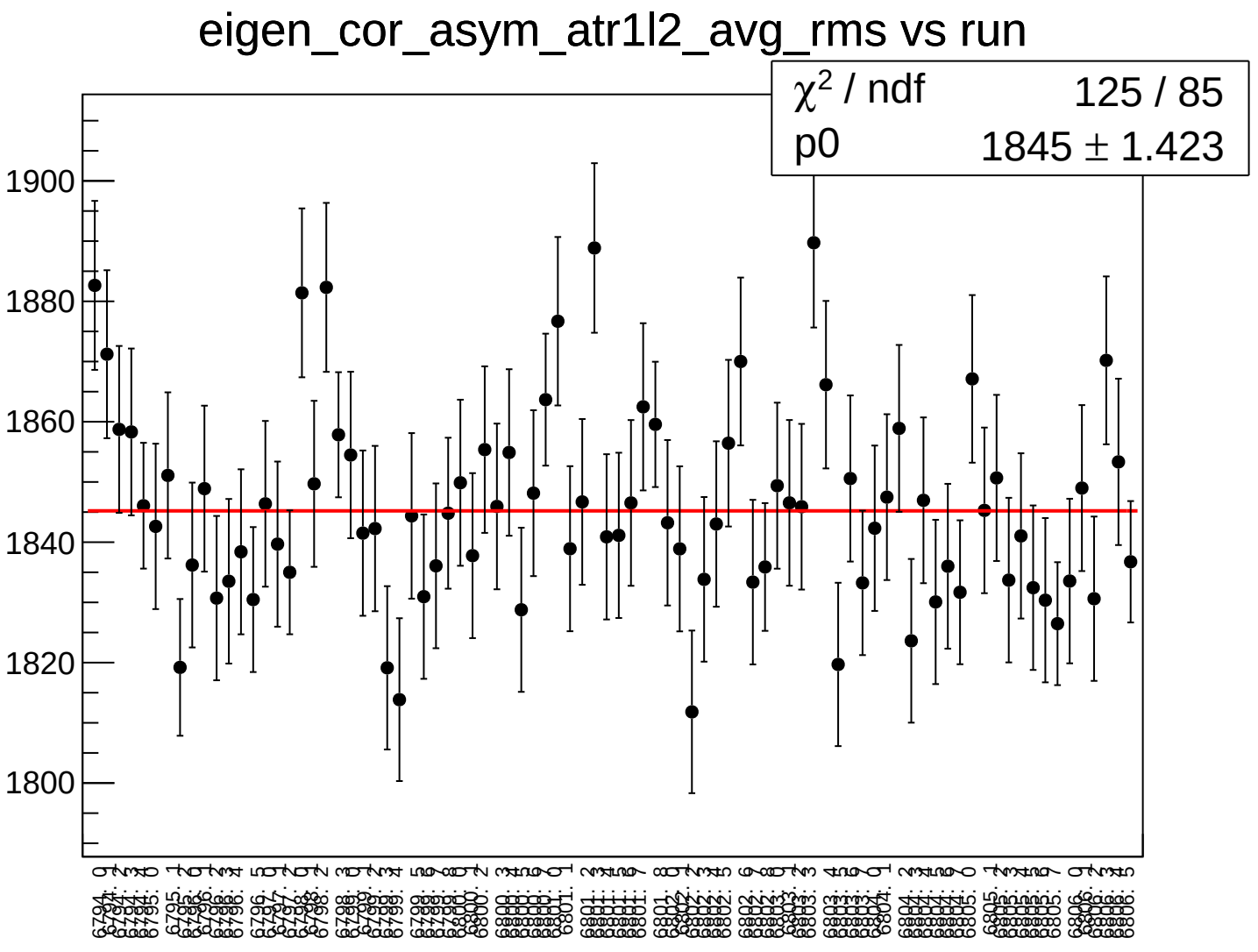

asym_atr1l2_avg_cor_correction_mean vs run
χ² / ndf 84.19 / 85
p0 −3754 ± 4352
pull
Entries 86
Mean −79.34
Std Dev 0

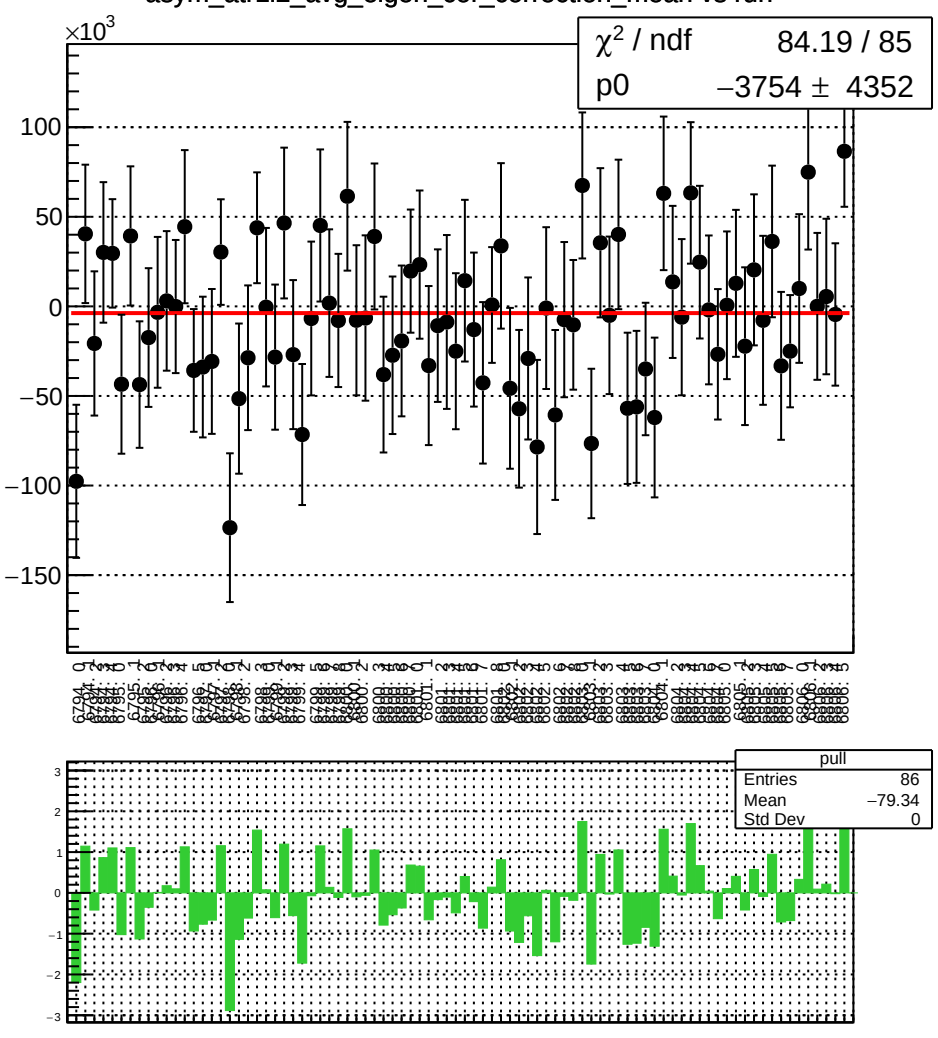

pull1D
Entries 86
Mean −0.02894
Std Dev 0.989

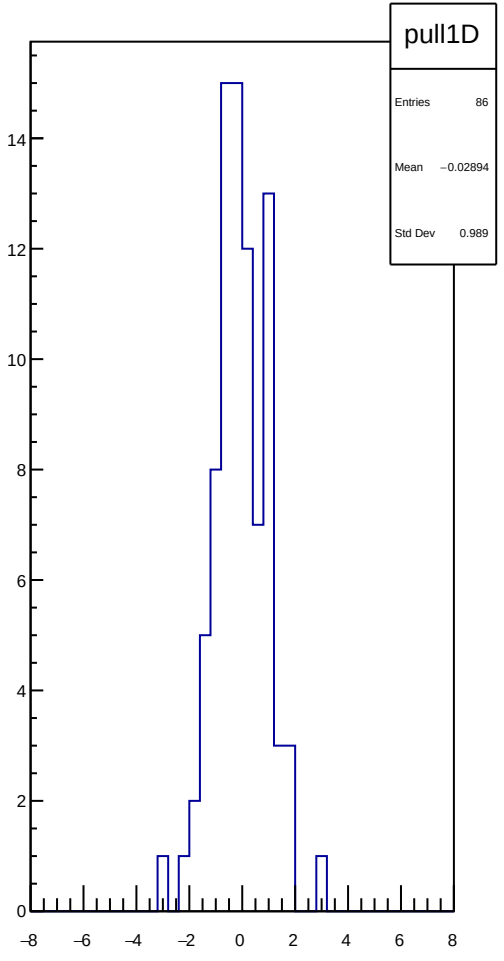

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 4621 / 85
p0 3986 ± 3.078
4600
4400
4200
4000
3800
3600
3400

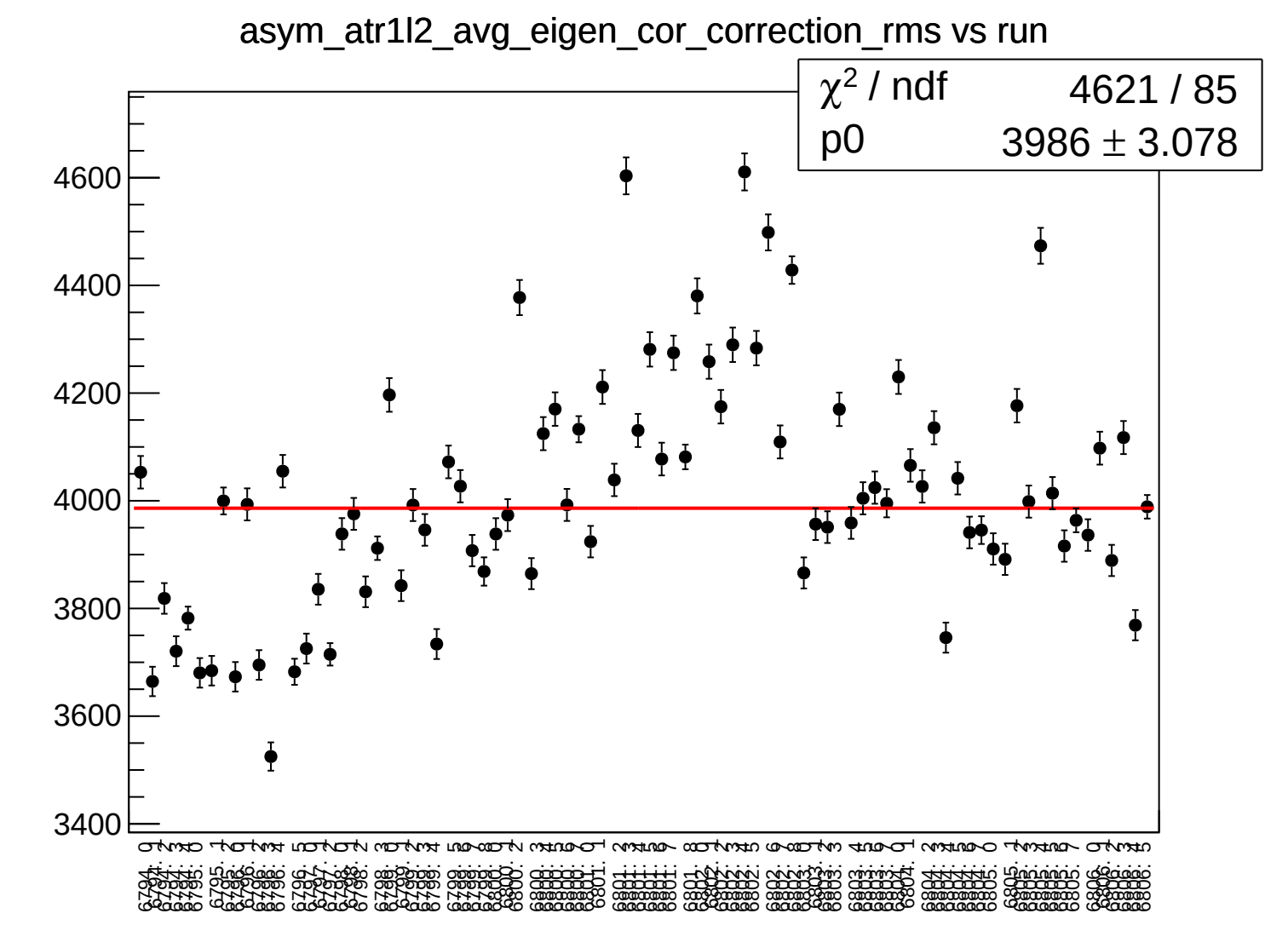

eigen_cor_asym_atr1l2_avg_mean vs run
χ^2 / ndf 98.57 / 85
p0 2071 ± 2012
pull
Entries 86
Mean 73.28
Std Dev 80.88

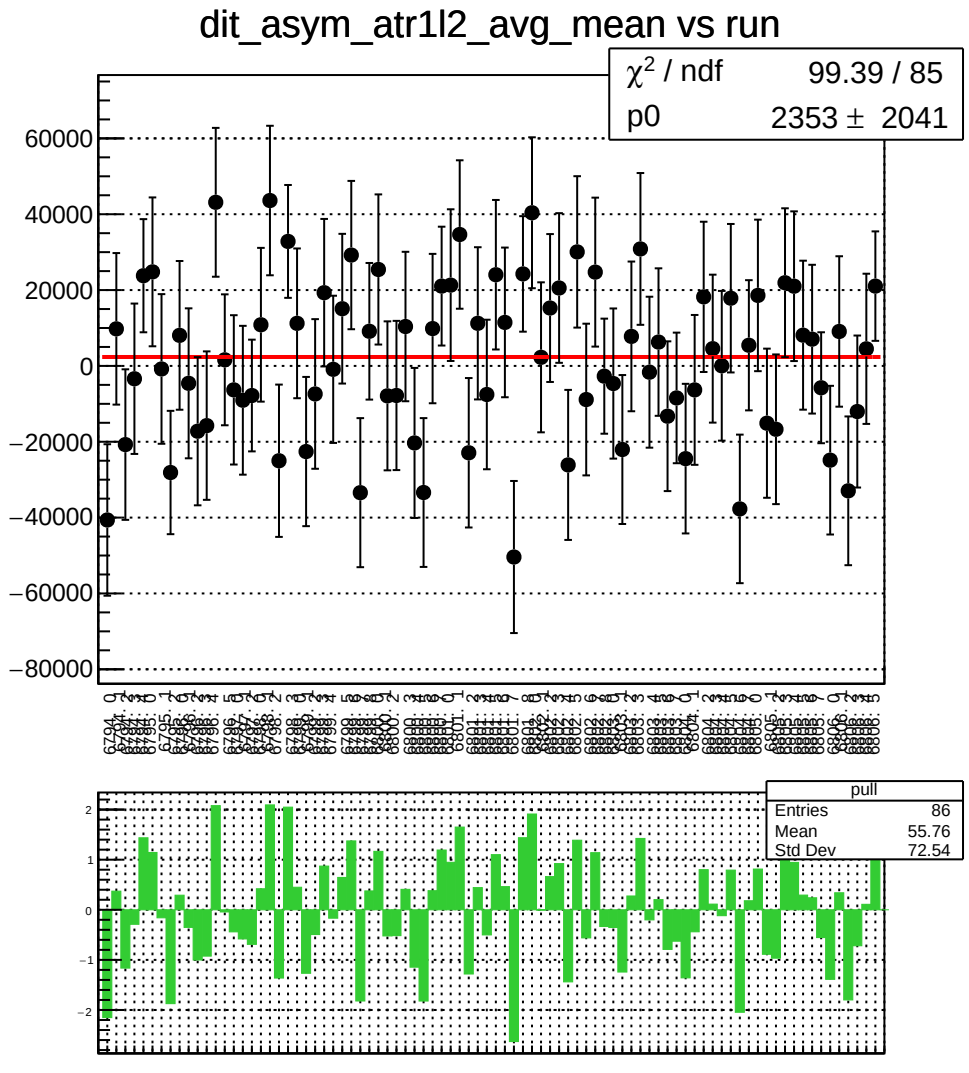

pull1D
Entries 86
Mean −0.01525
Std Dev 1.07

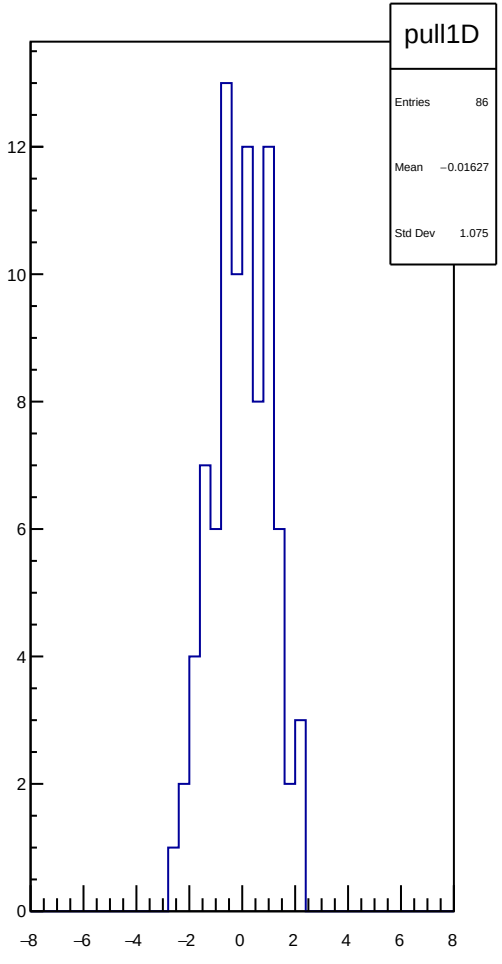

eigen_cor_asym_atr1l2_avg_rms vs run
χ^2 / ndf 125 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

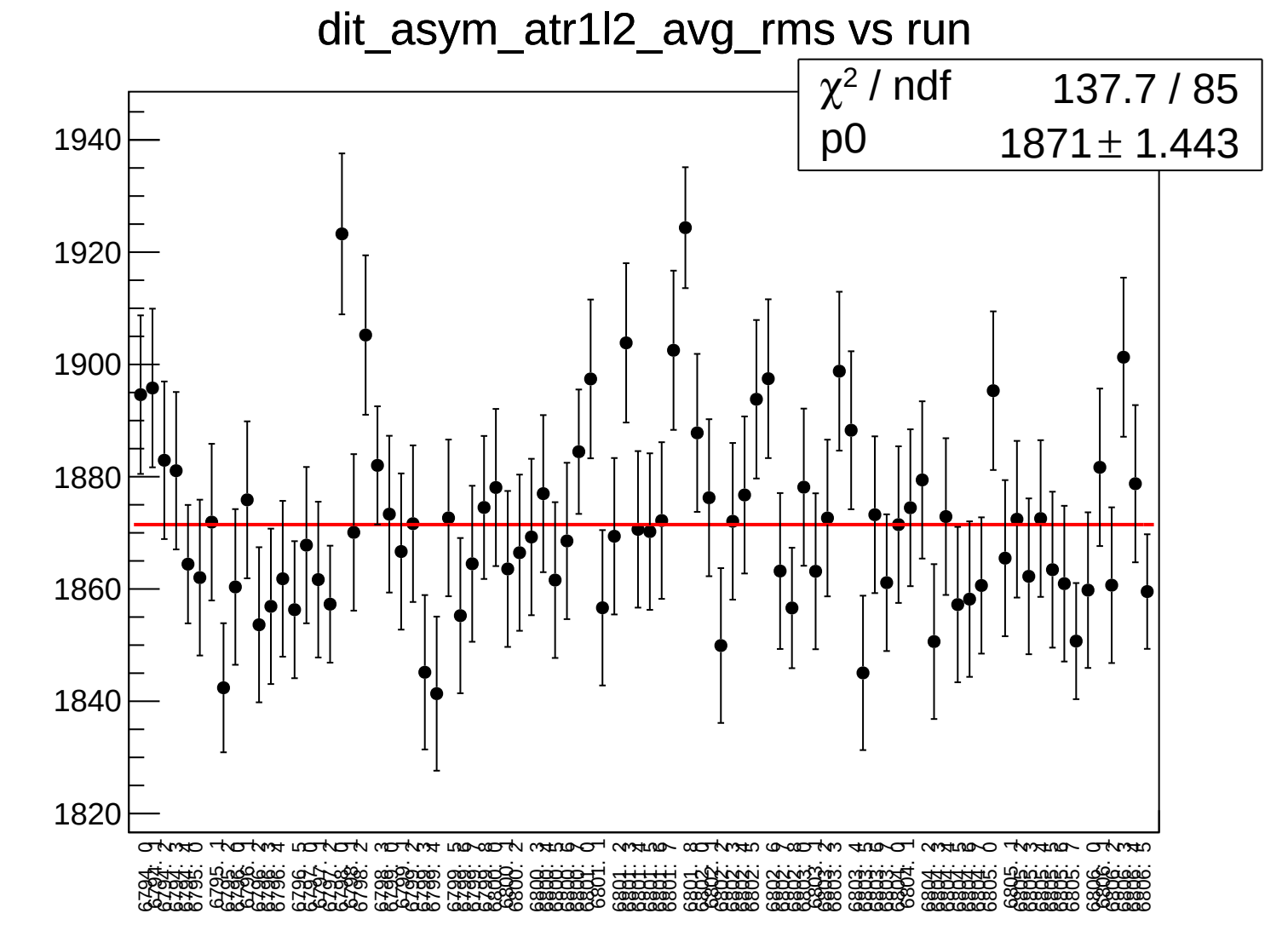

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.19 / 85
p0 −3754 ± 4352
100
50
0
−50
−100
−150
pull
Entries 86
Mean −79.34
Std Dev 0
3
2
1
0
−1
−2
−3

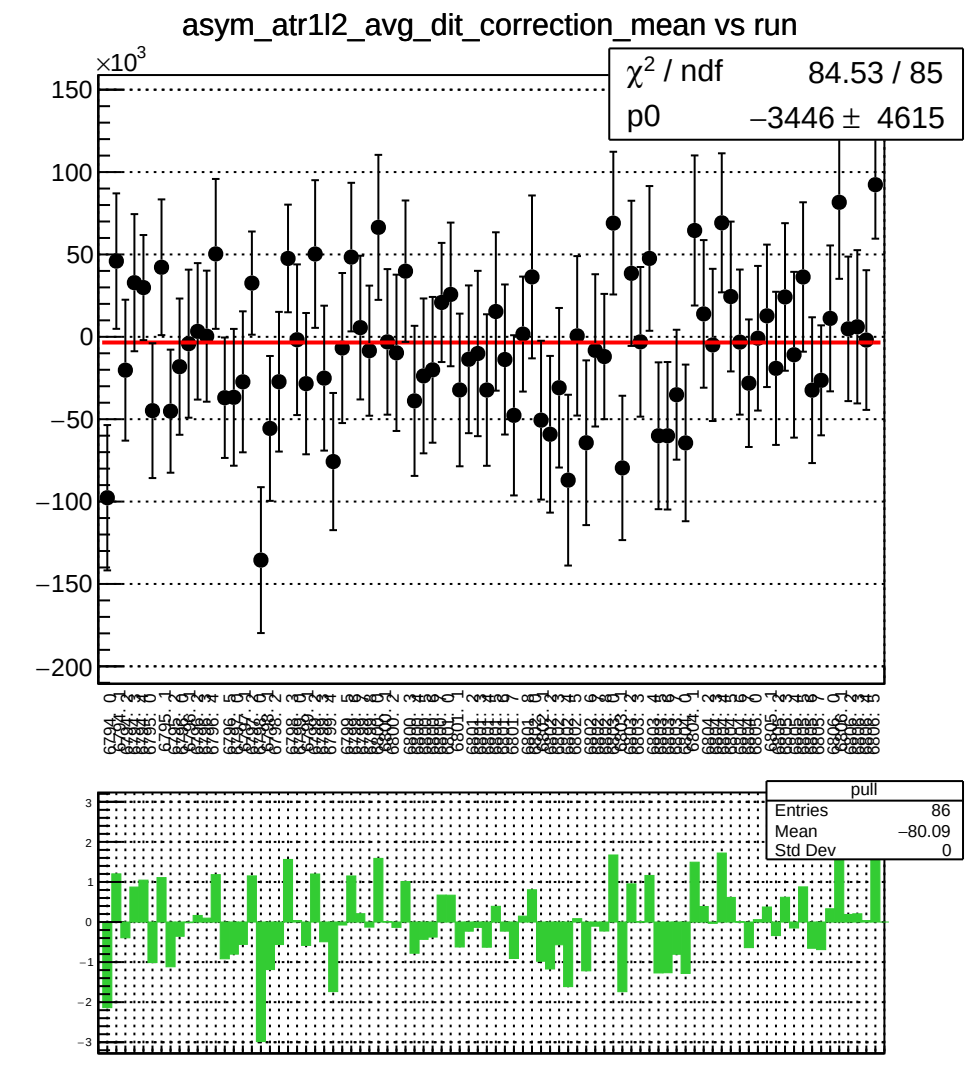

pull1D
Entries 86
Mean −0.02894
Std Dev 0.989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

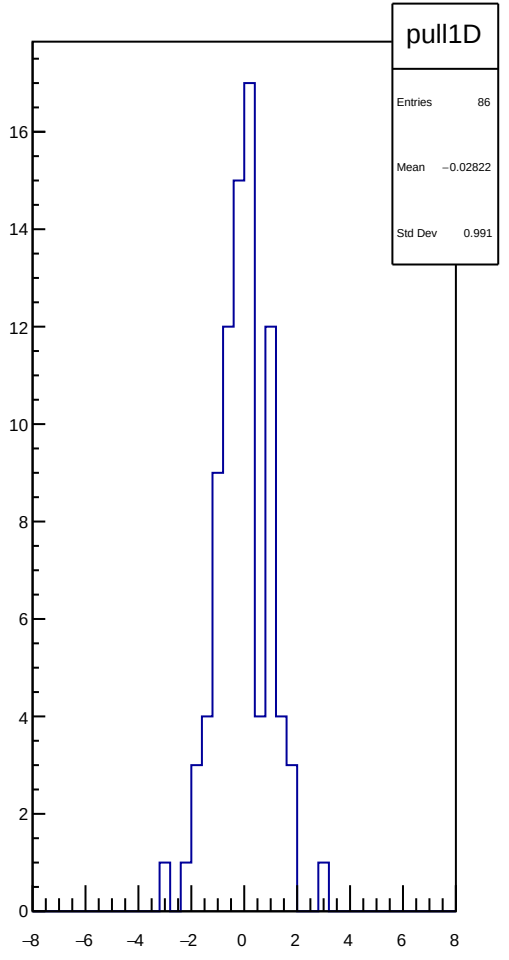

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4621 / 85
p0 3986 ± 3.078
4600
4400
4200
4000
3800
3600
3400

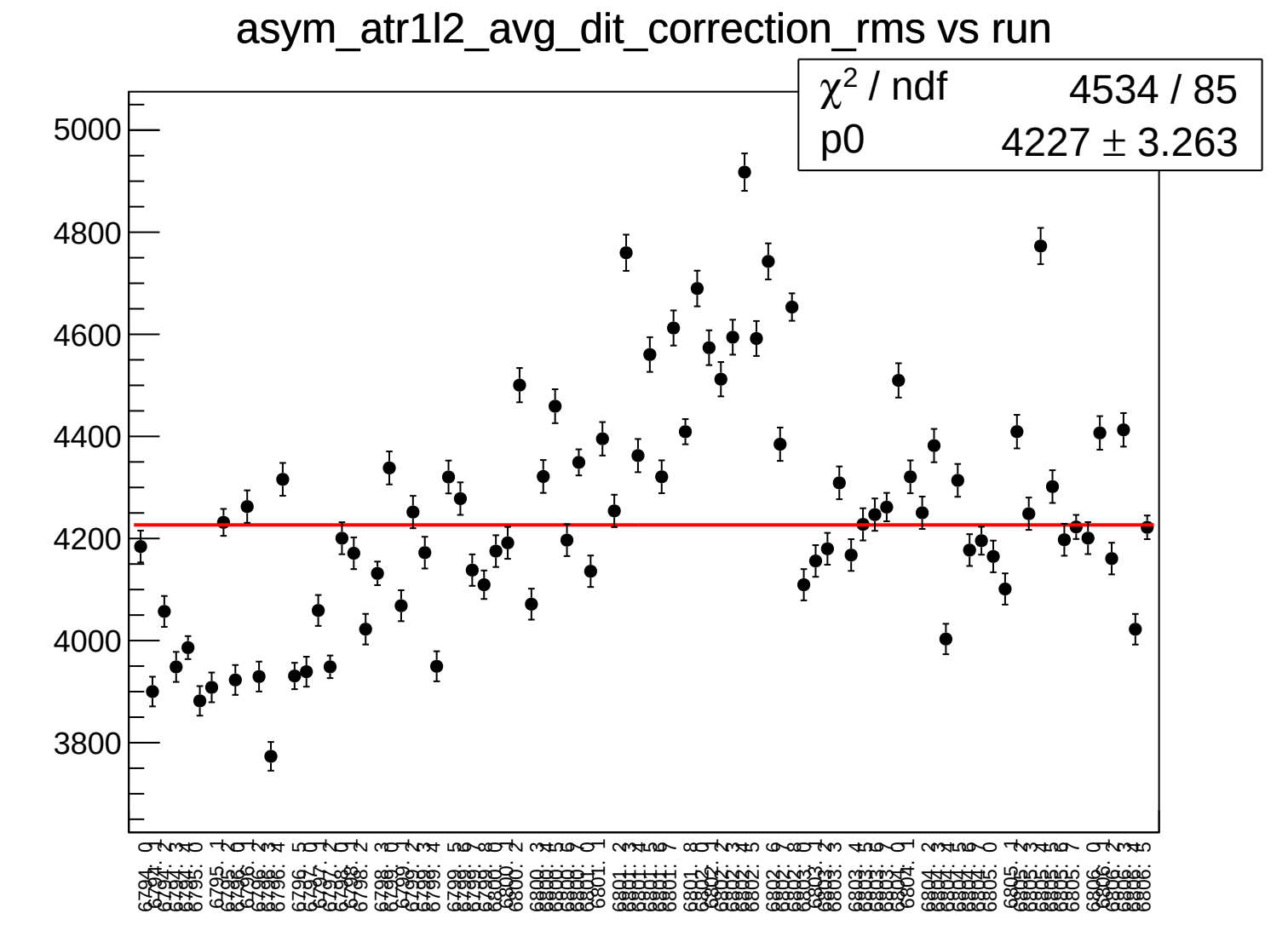

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 99.39 / 85
p0 2353 ± 2041
pull
Entries 86
Mean 55.76
Std Dev 72.54

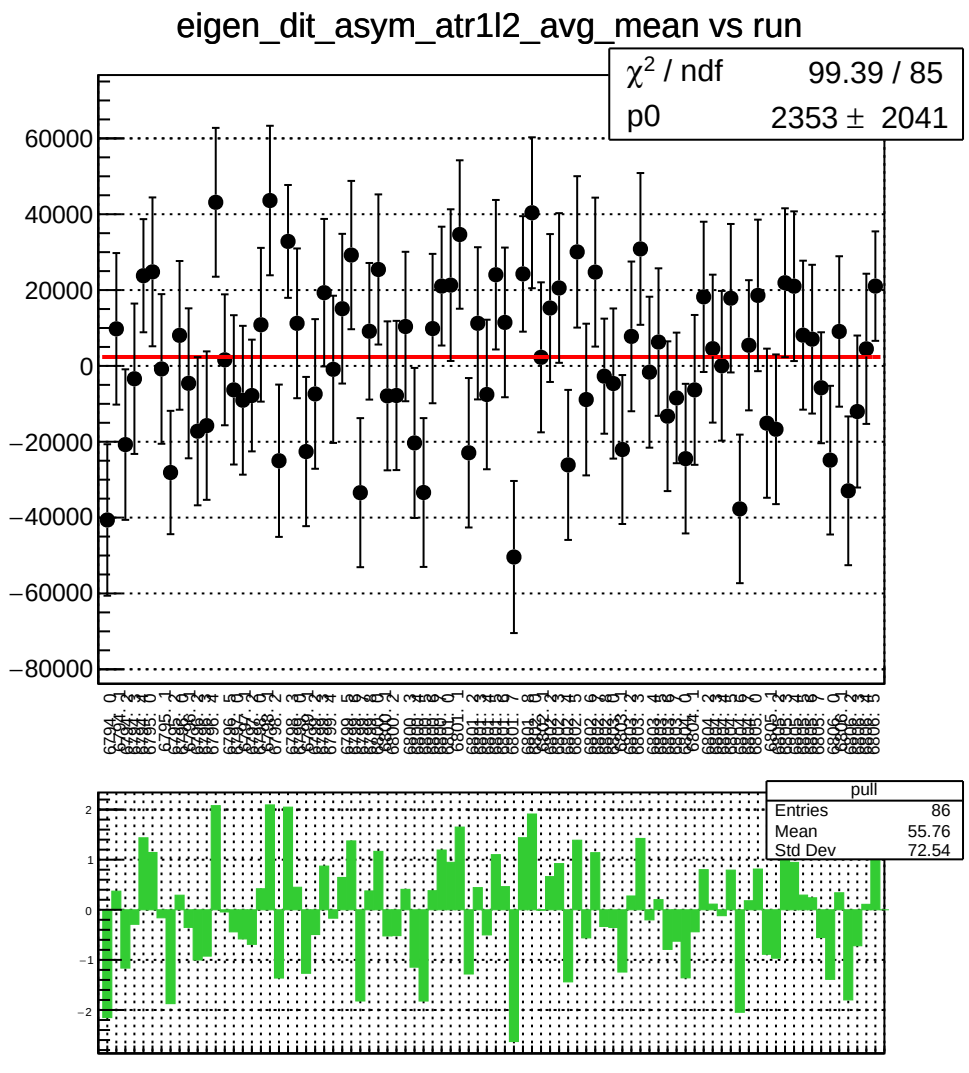

pull1D
Entries 86
Mean −0.01627
Std Dev 1.075

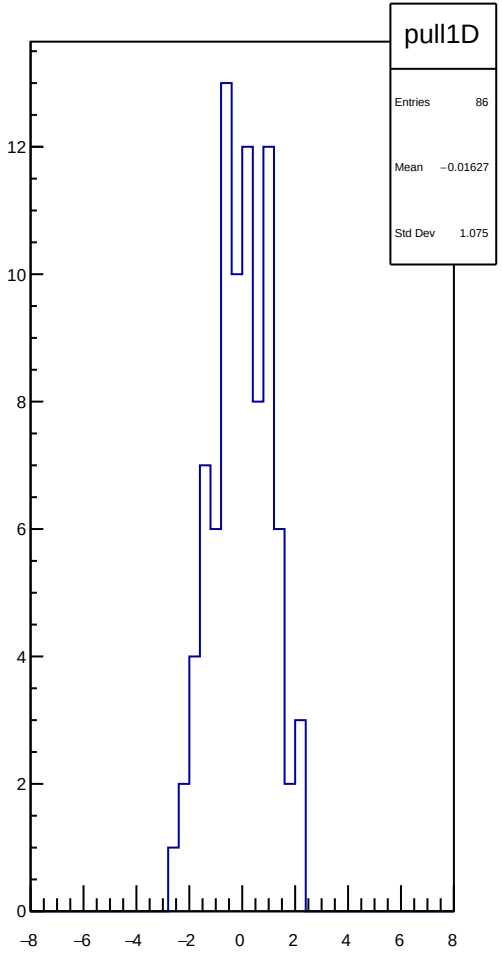

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 137.7 / 85
p0 1871 ± 1.443
1940
1920
1900
1880
1860
1840
1820

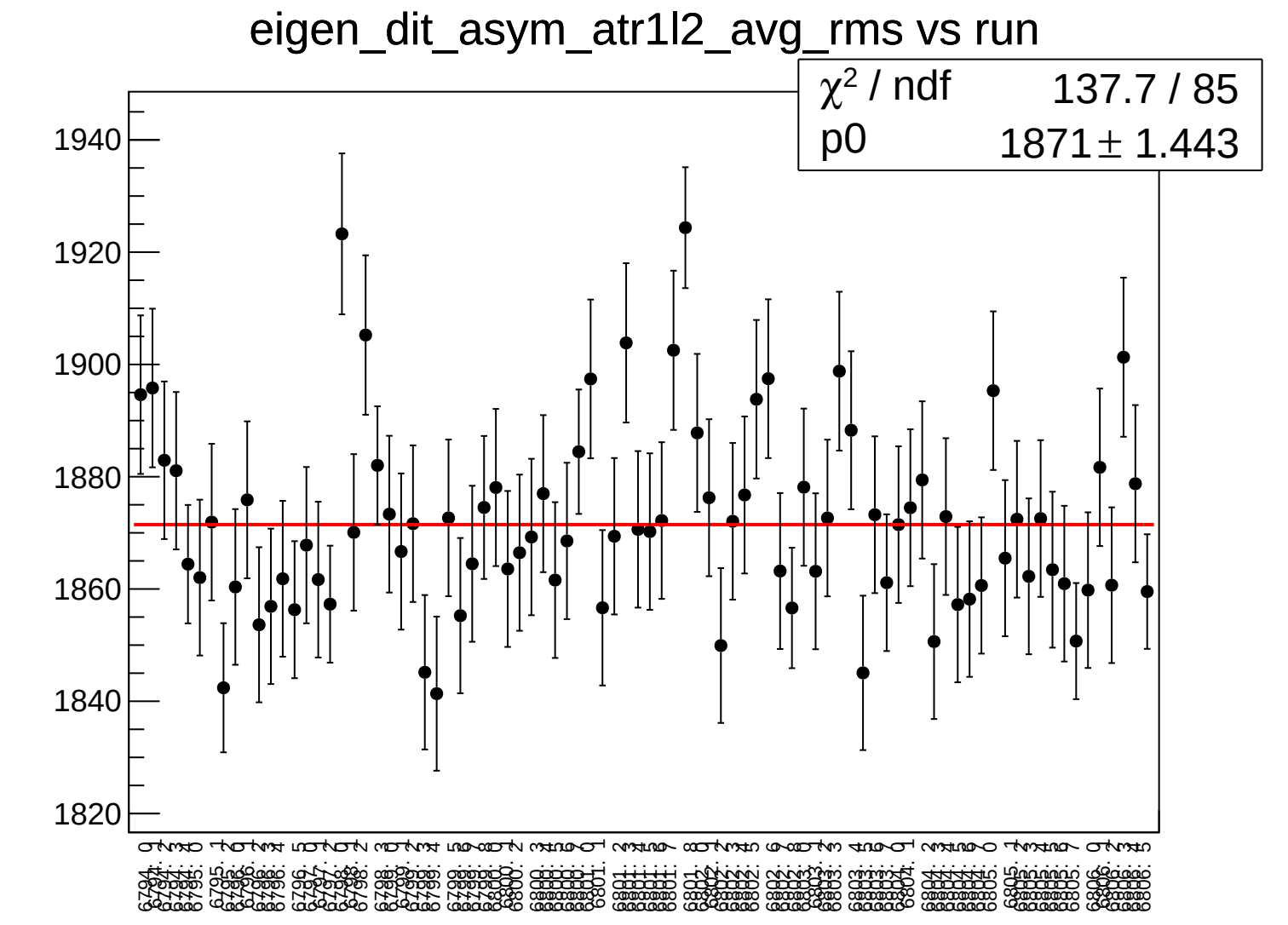

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.53 / 85
p0 −3446 ± 4615
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −80.09
Std Dev 0
3
2
1
0
−1
−2
−3

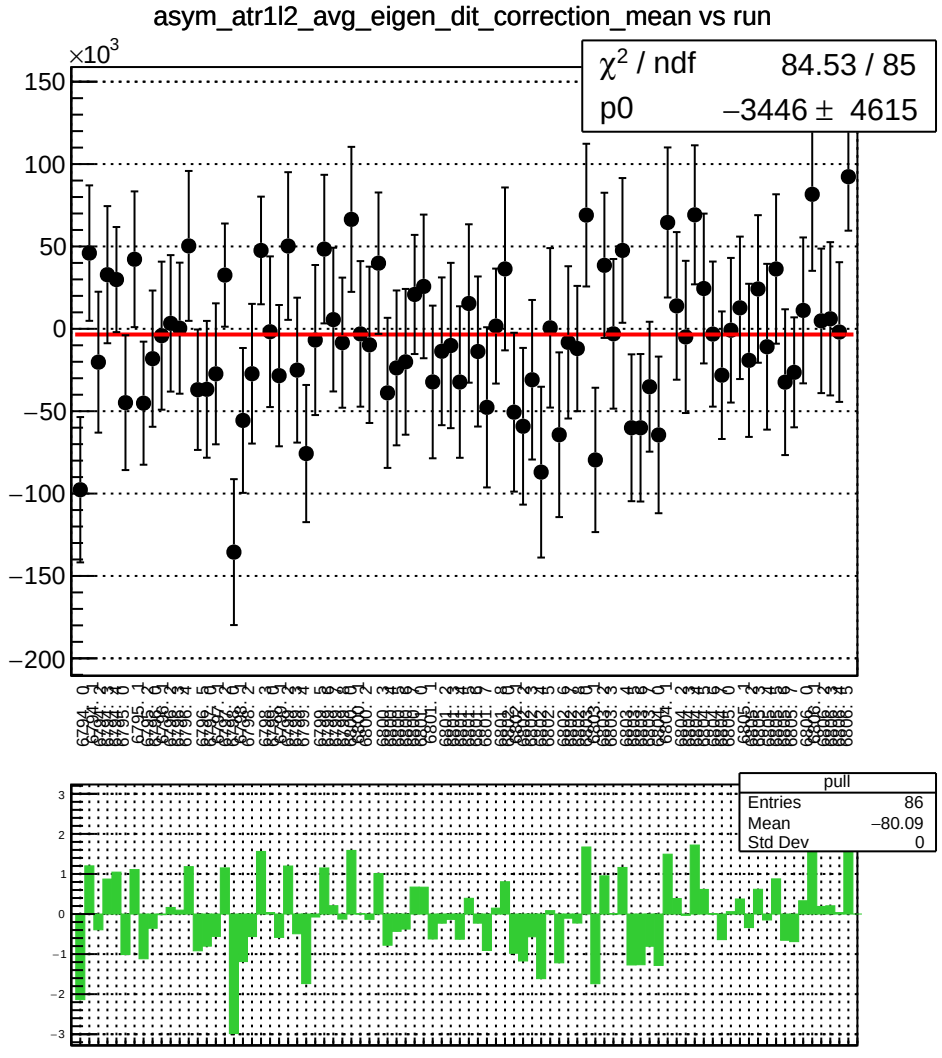

pull1D
Entries 86
Mean −0.02822
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

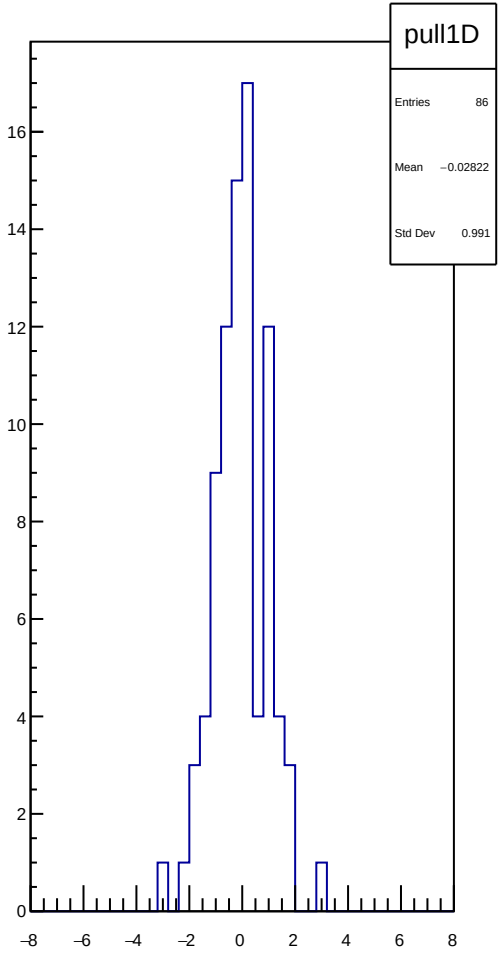

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 4534 / 85
p0 4227 ± 3.263
5000
4800
4600
4400
4200
4000
3800

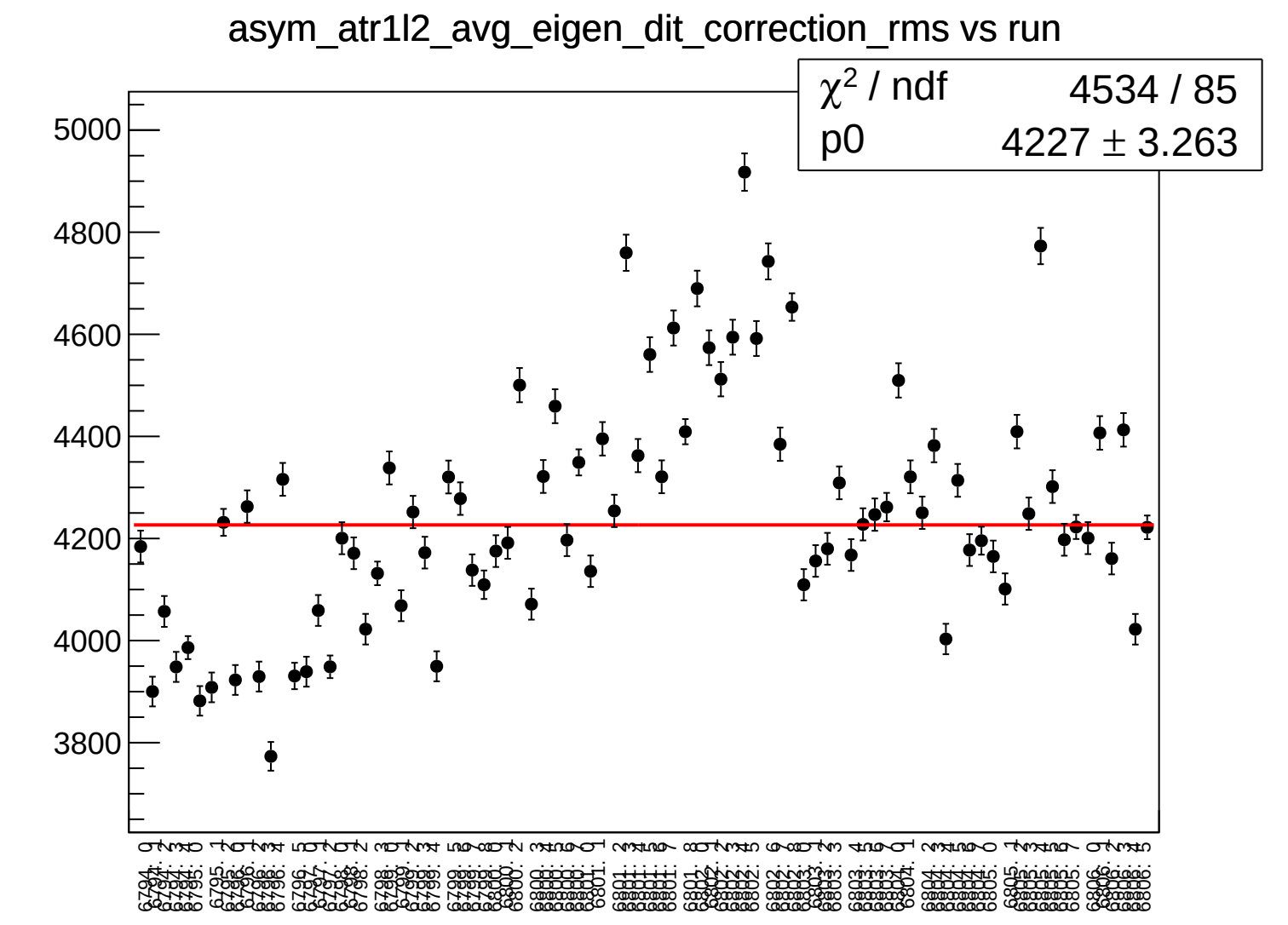

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 99.39 / 85
p0 2353 ± 2041
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 55.76
Std Dev 72.54
2
1
0
−1
−2

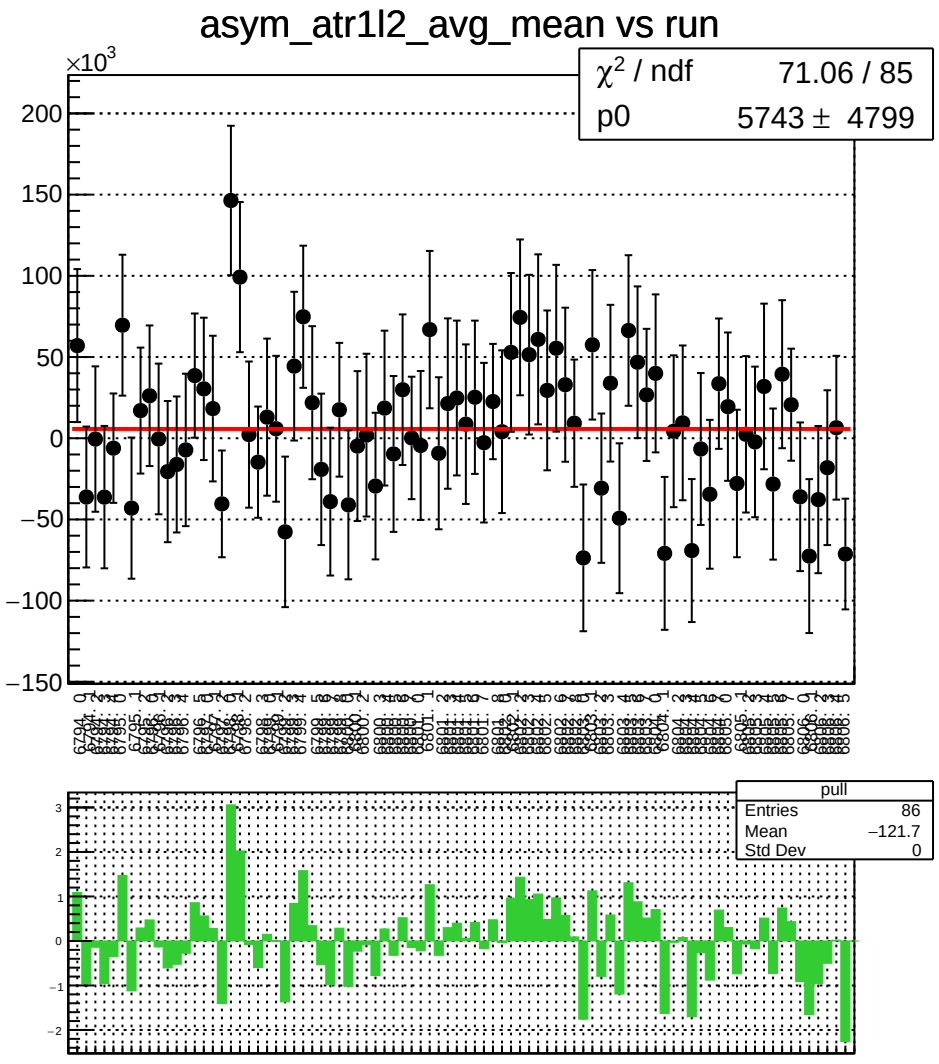

pull1D
Entries 86
Mean −0.01627
Std Dev 1.075
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

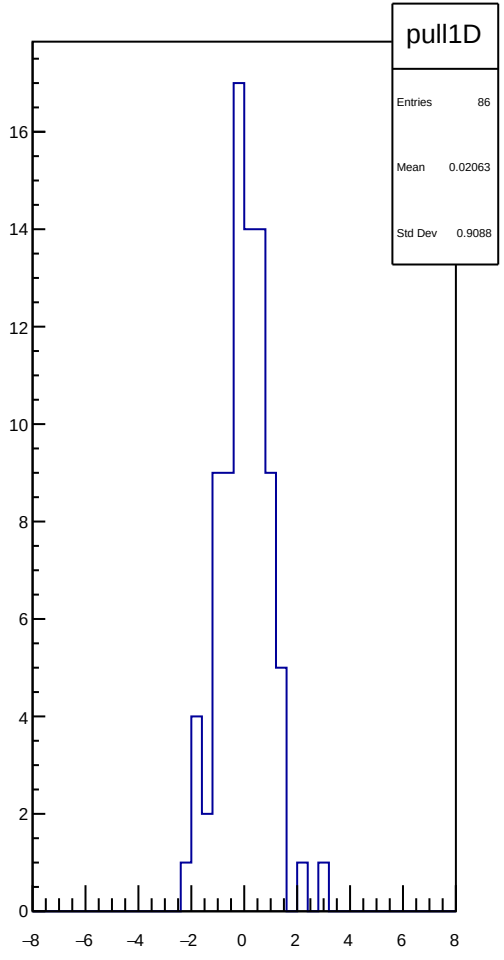

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 137.7 / 85
p0 1871 ± 1.443
1940
1920
1900
1880
1860
1840
1820

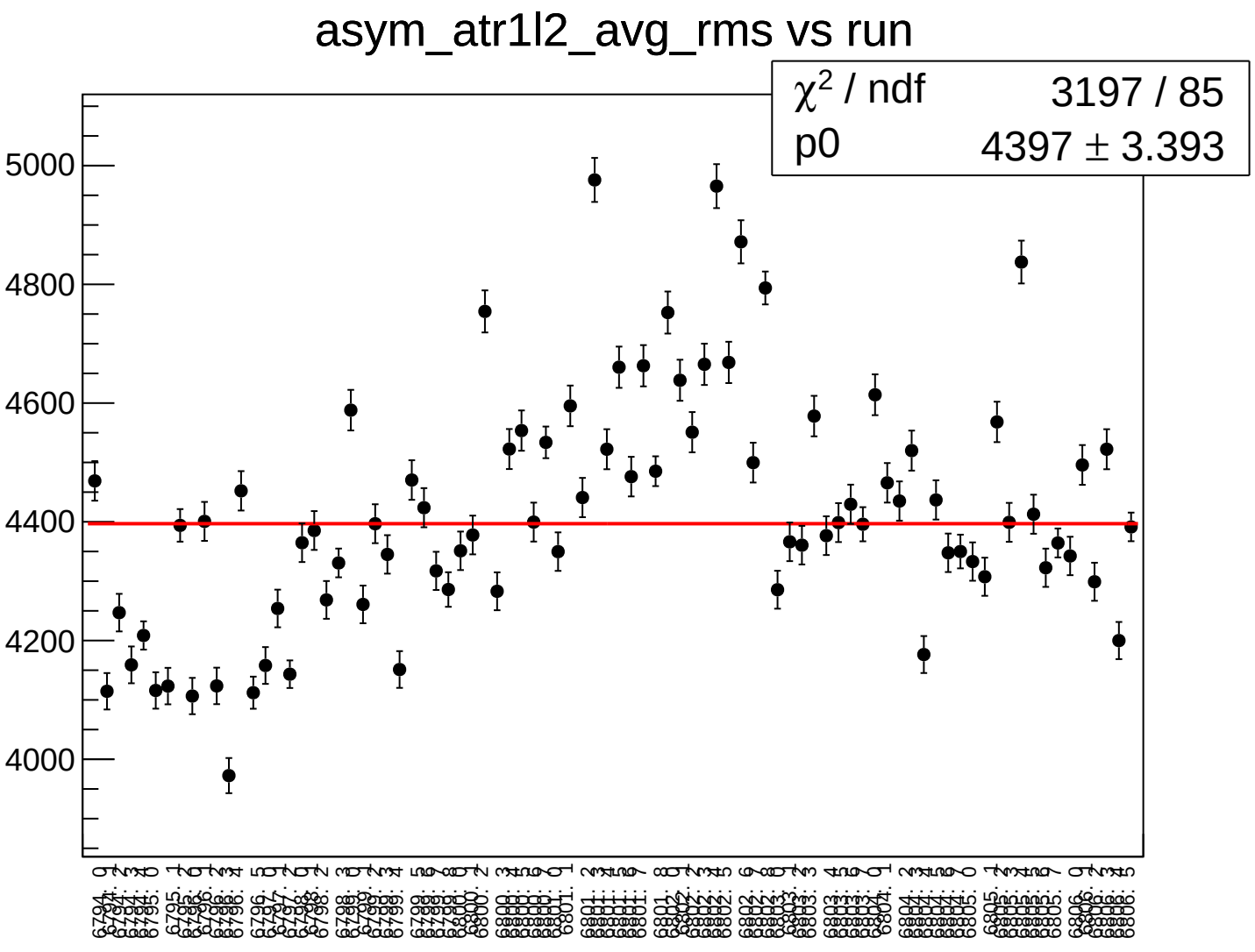

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.53 / 85
p0 −3446 ± 4615
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −80.09
Std Dev 0
3
2
1
0
−1
−2
−3

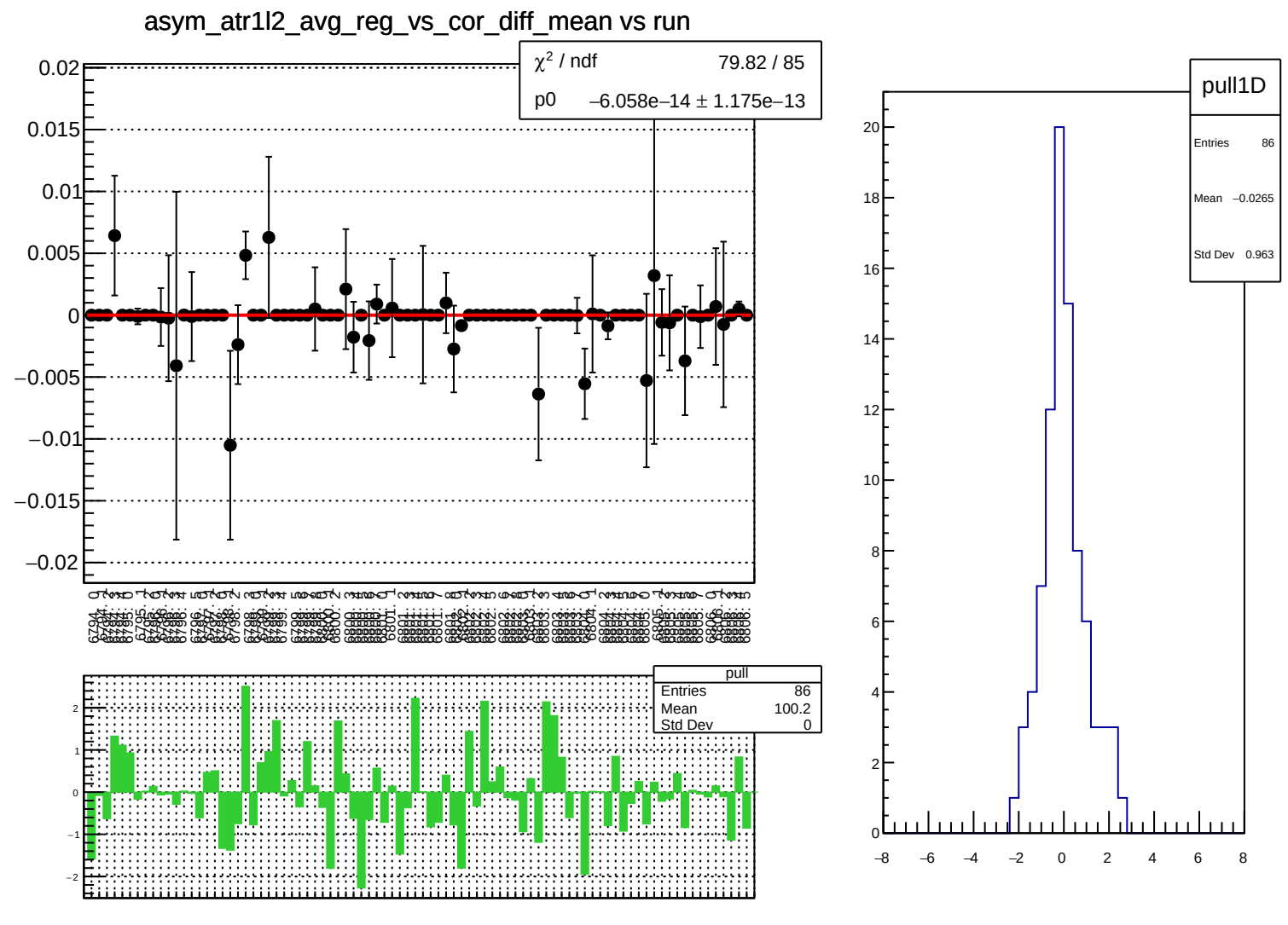

pull1D
Entries 86
Mean −0.02822
Std Dev 0.991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

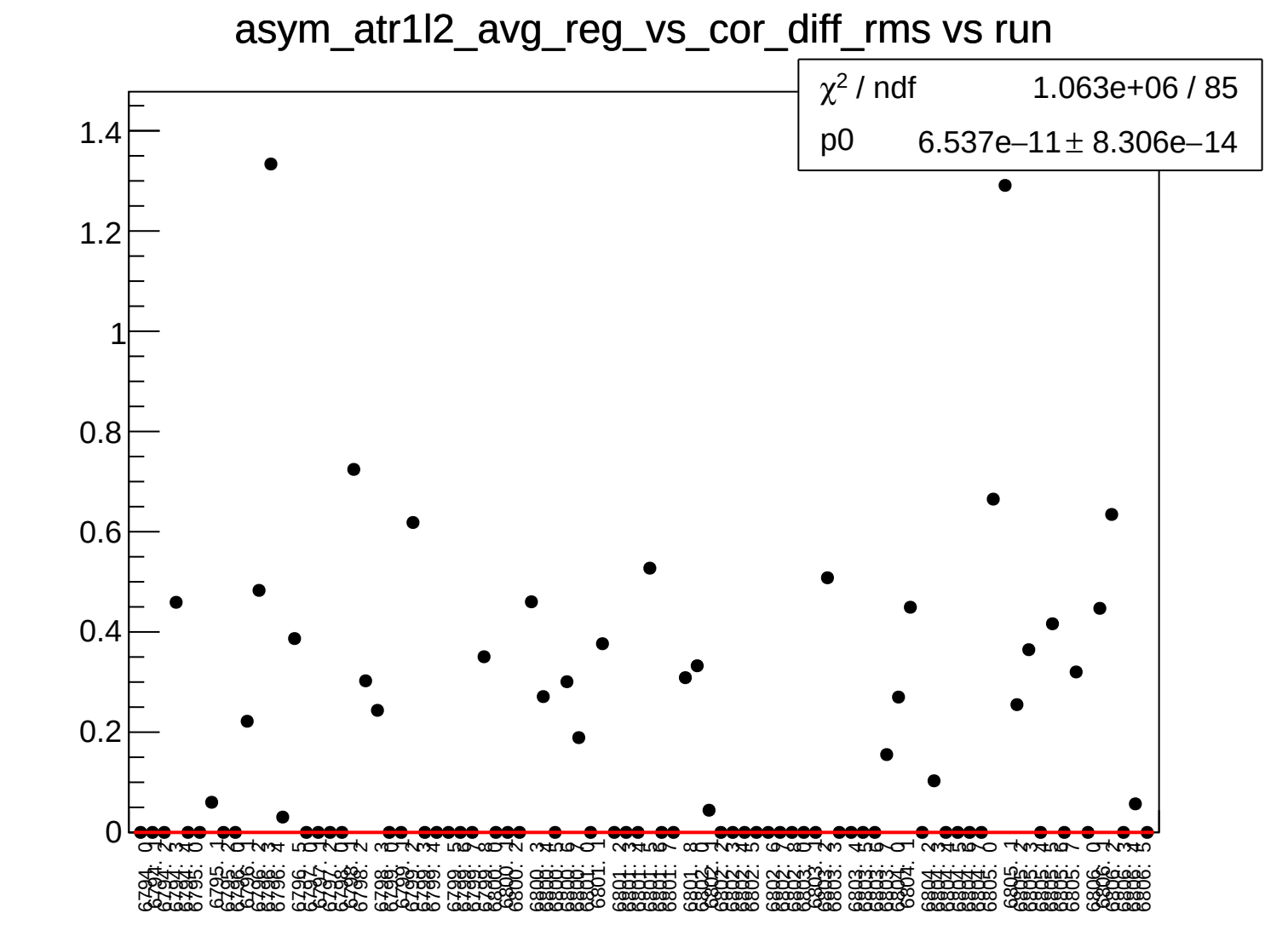

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4534 / 85
p0 4227 ± 3.263
5000
4800
4600
4400
4200
4000
3800

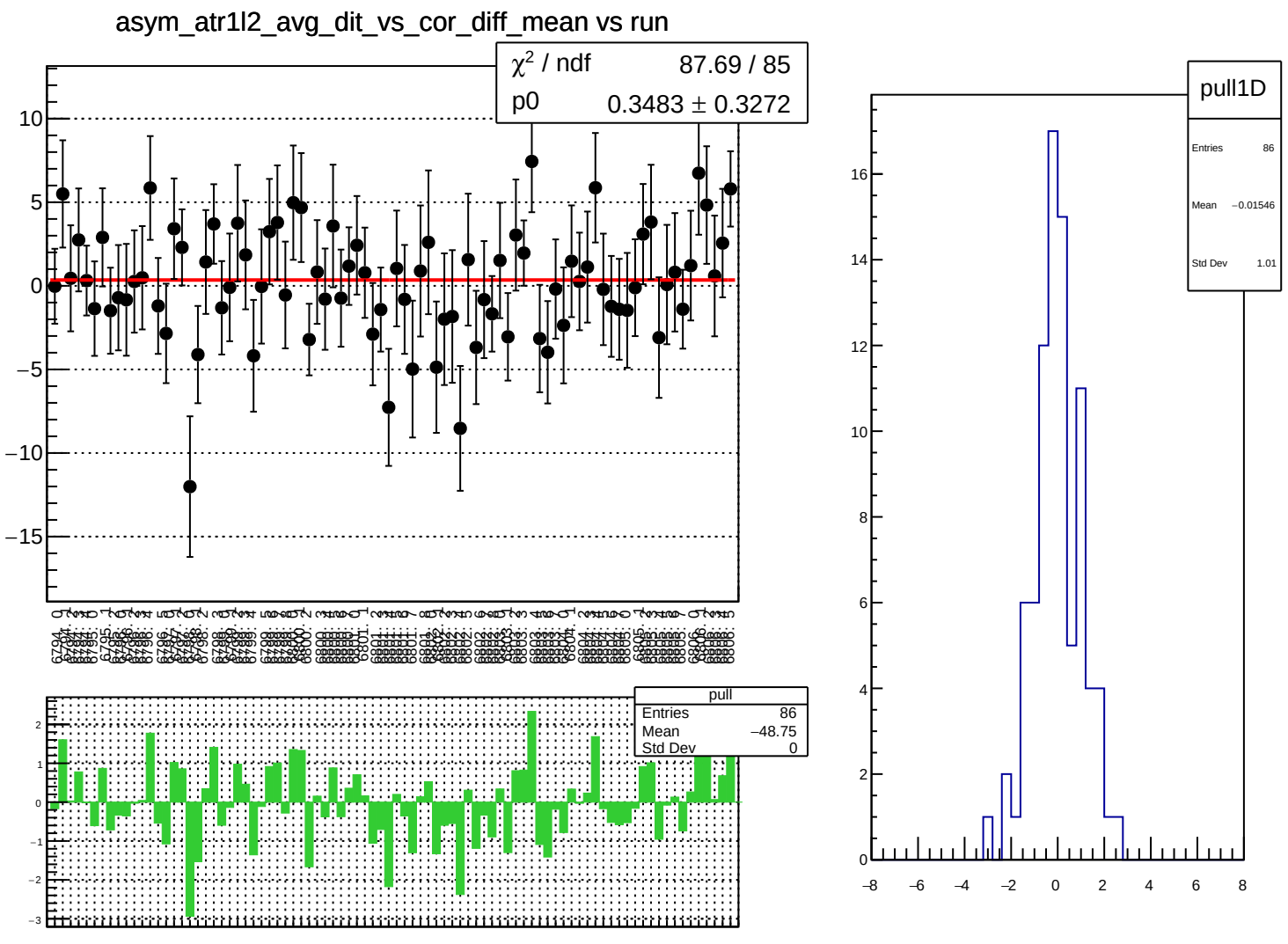

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 71.06 / 85
p0 5743 ± 4799
200
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −121.7
Std Dev 0
3
2
1
0
−1
−2

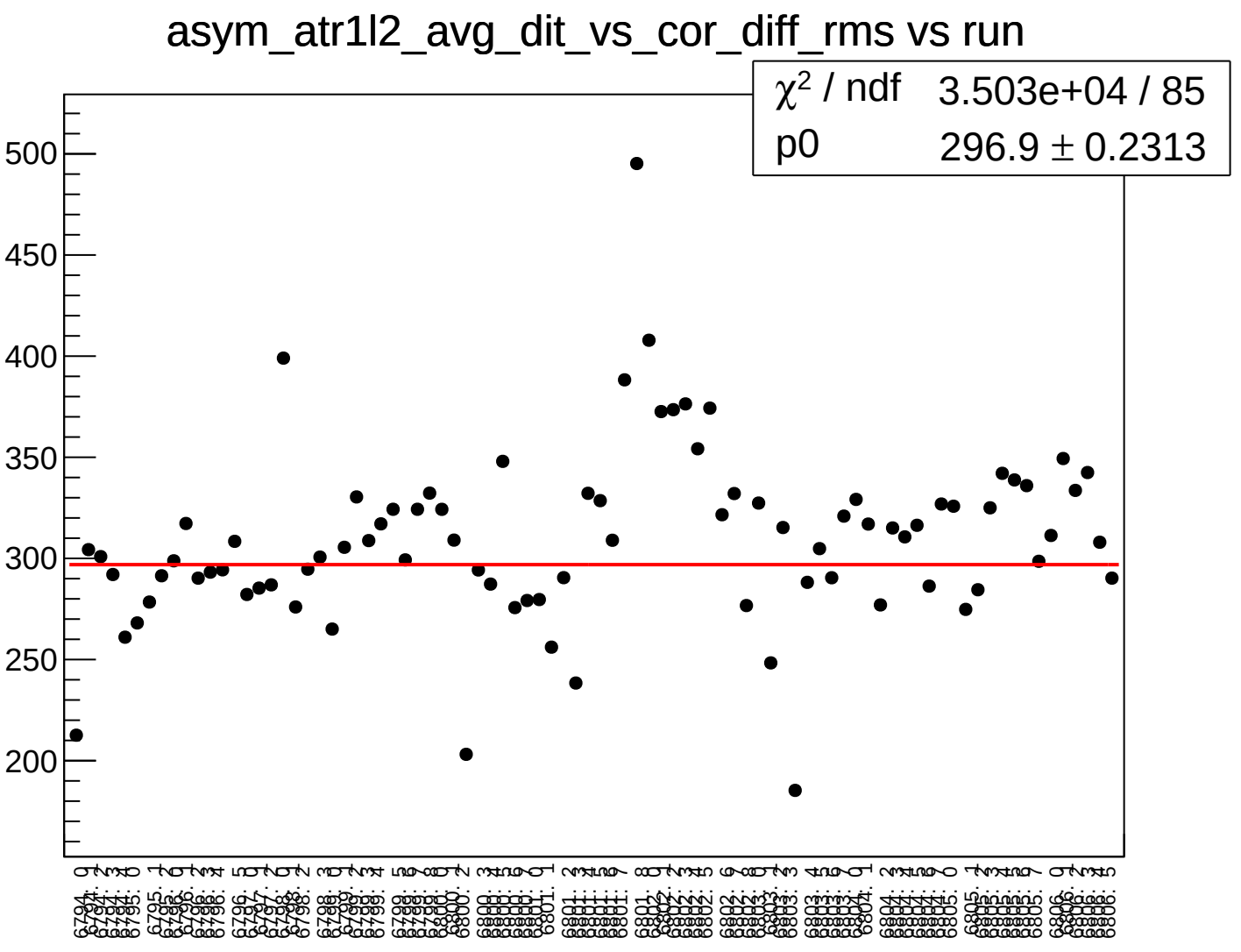

pull1D
Entries 86
Mean 0.02063
Std Dev 0.9088
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

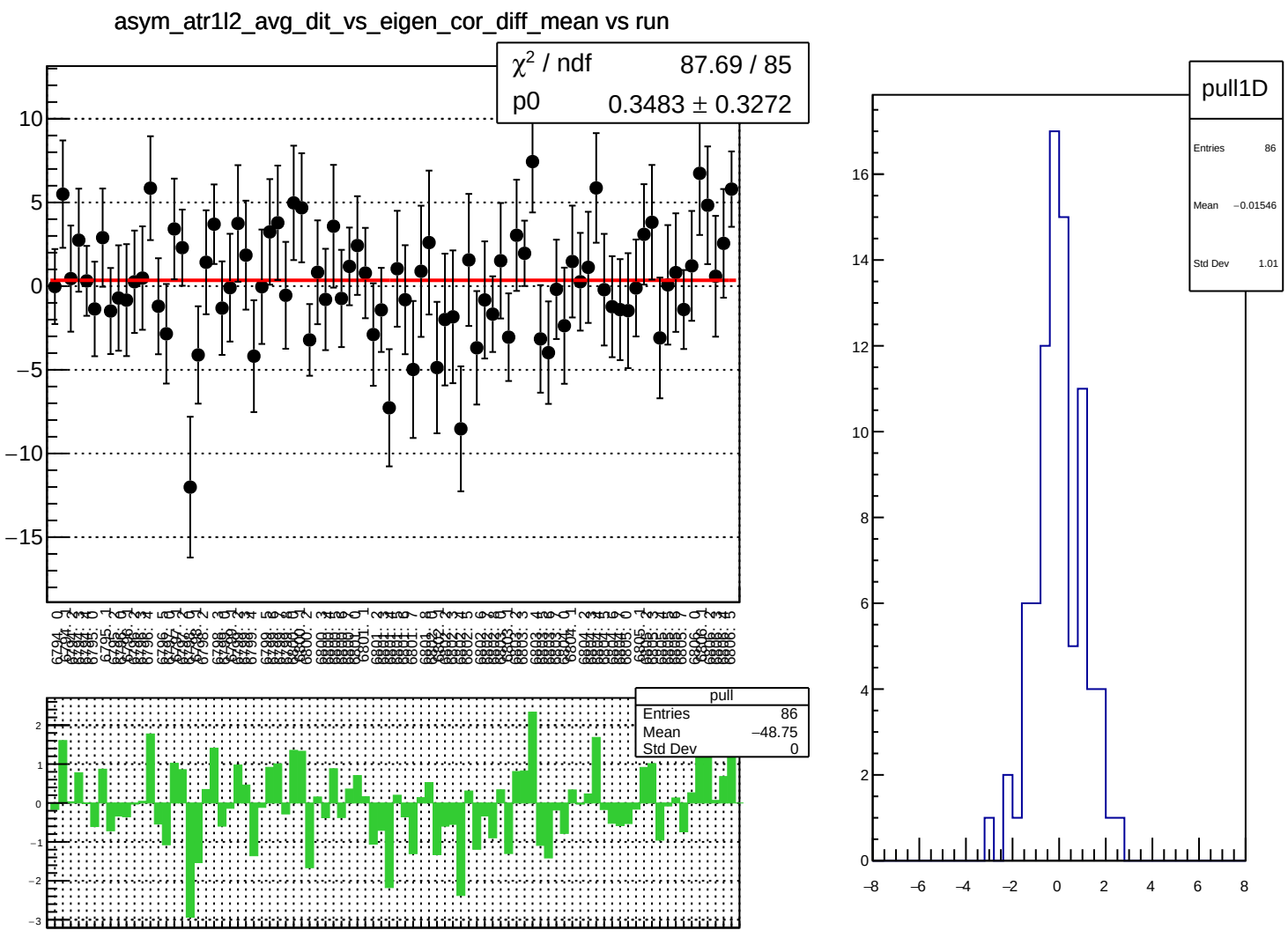

asym_atr1l2_avg_rms vs run
χ² / ndf 3197 / 85
p0 4397 ± 3.393
5000
4800
4600
4400
4200
4000

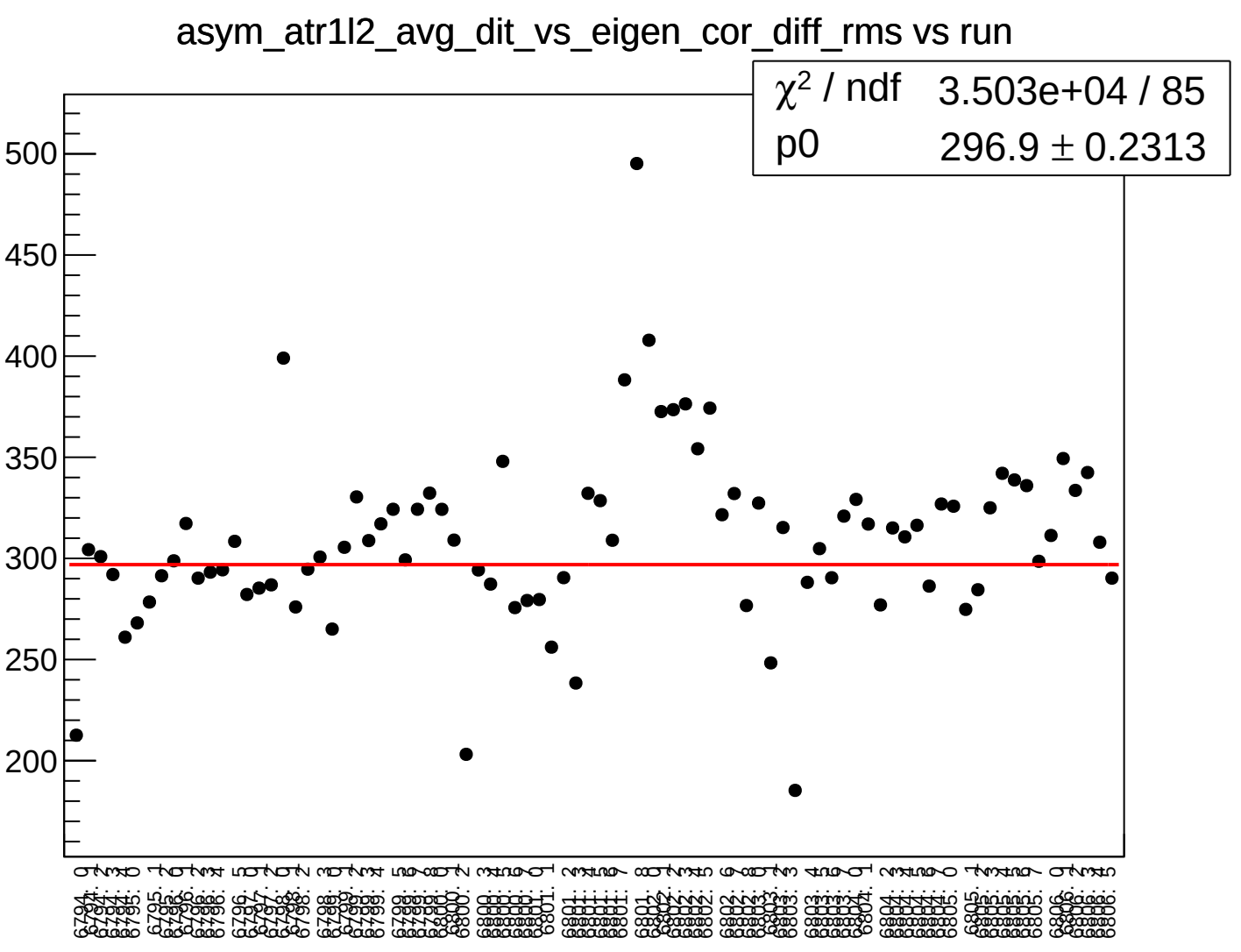

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.82 / 85
p0 −6.058e−14 ± 1.175e−13
pull
Entries 86
Mean 100.2
Std Dev 0
pull1D
Entries 86
Mean −0.0265
Std Dev 0.963

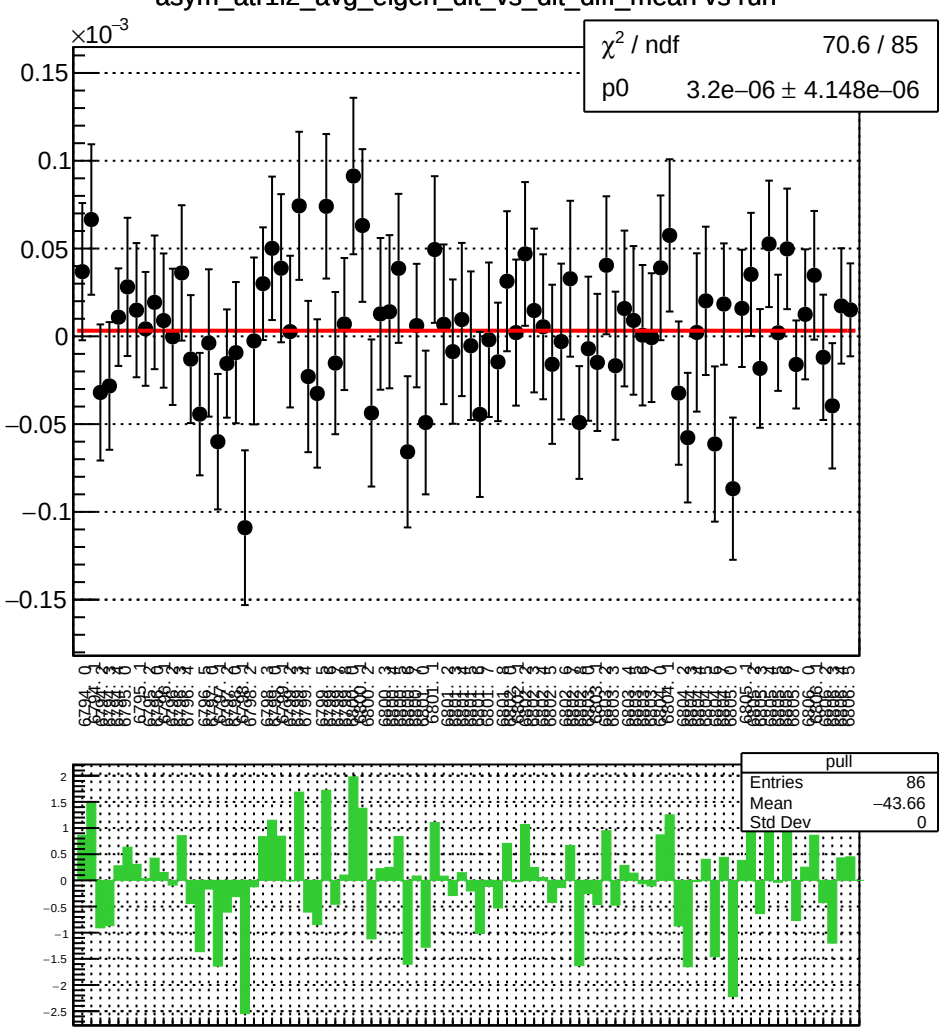

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 85
p0 6.537e−11 ± 8.306e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

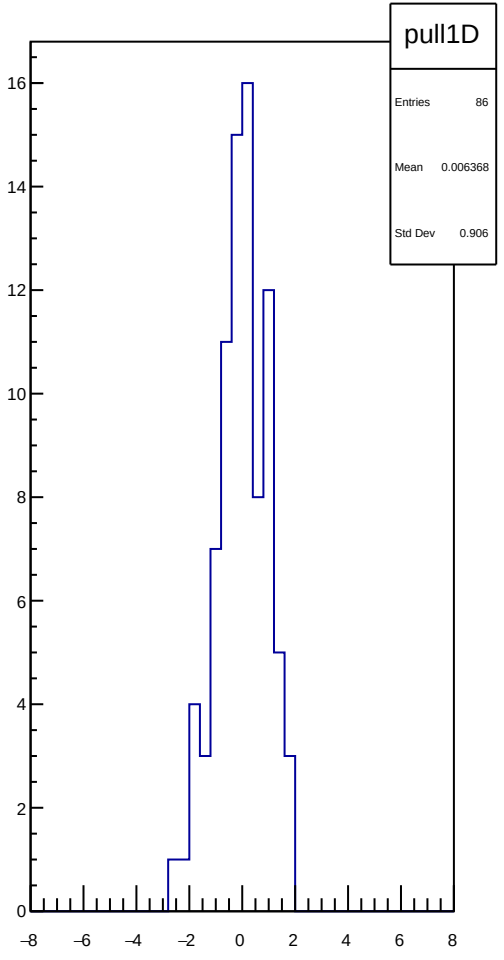

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.69 / 85
p0 0.3483 ± 0.3272
pull
Entries 86
Mean −48.75
Std Dev 0
pull1D
Entries 86
Mean −0.01546
Std Dev 1.01

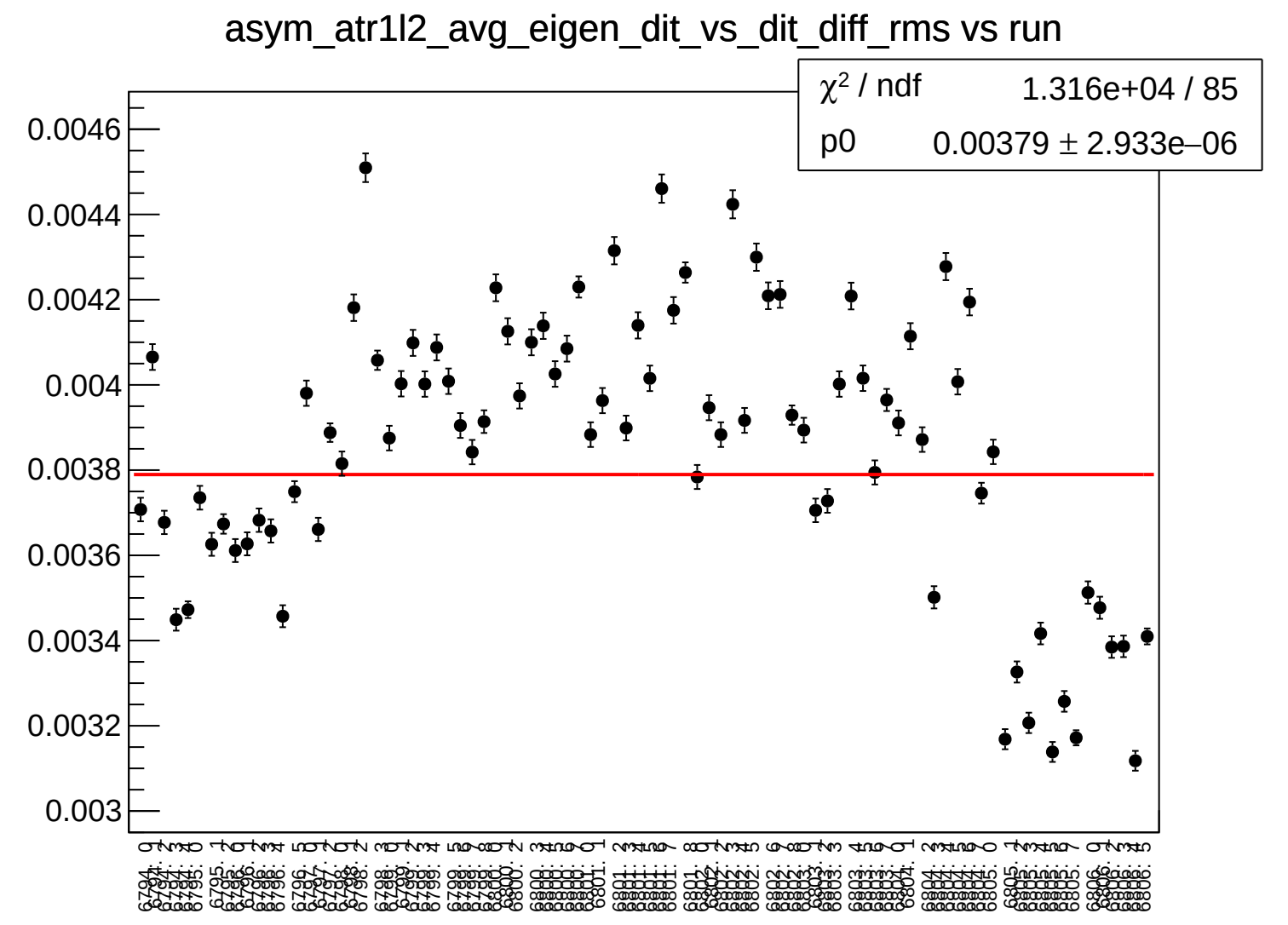

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 85
p0 296.9 ± 0.2313
500
450
400
350
300
250
200

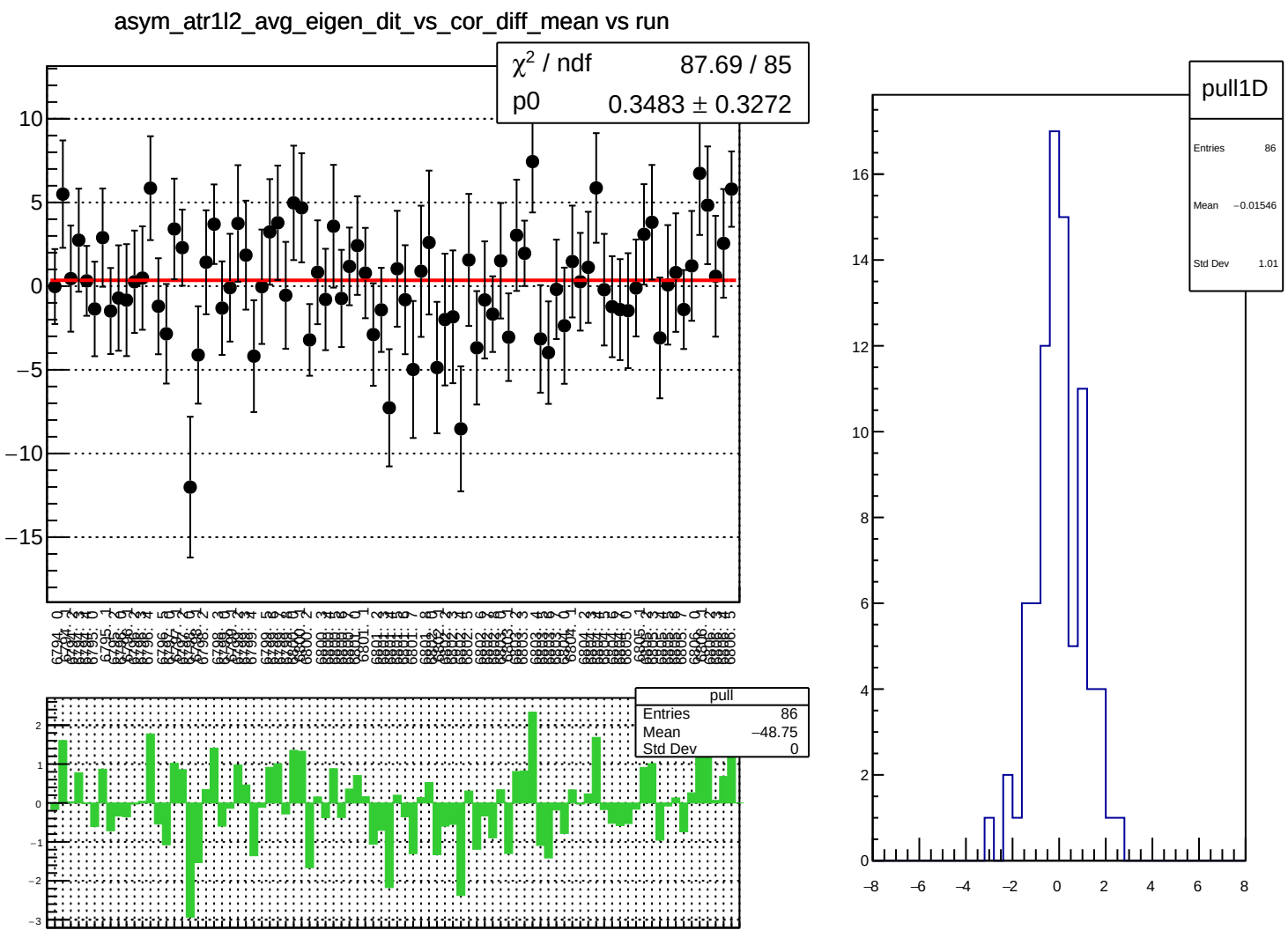

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.69 / 85
p0 0.3483 ± 0.3272
pull
Entries 86
Mean −48.75
Std Dev 0
pull1D
Entries 86
Mean −0.01546
Std Dev 1.01

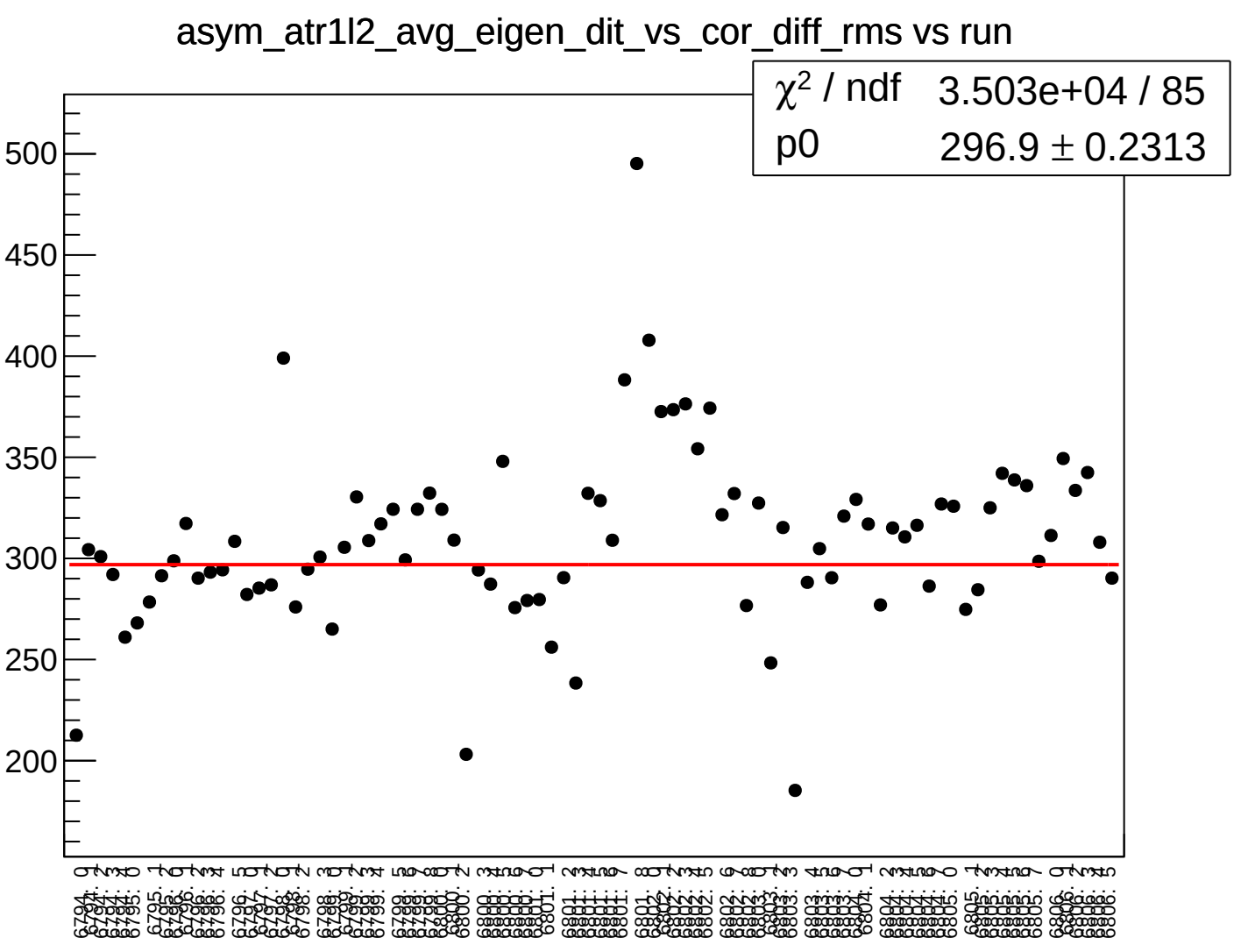

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 85
p0 296.9 ± 0.2313
500
450
400
350
300
250
200

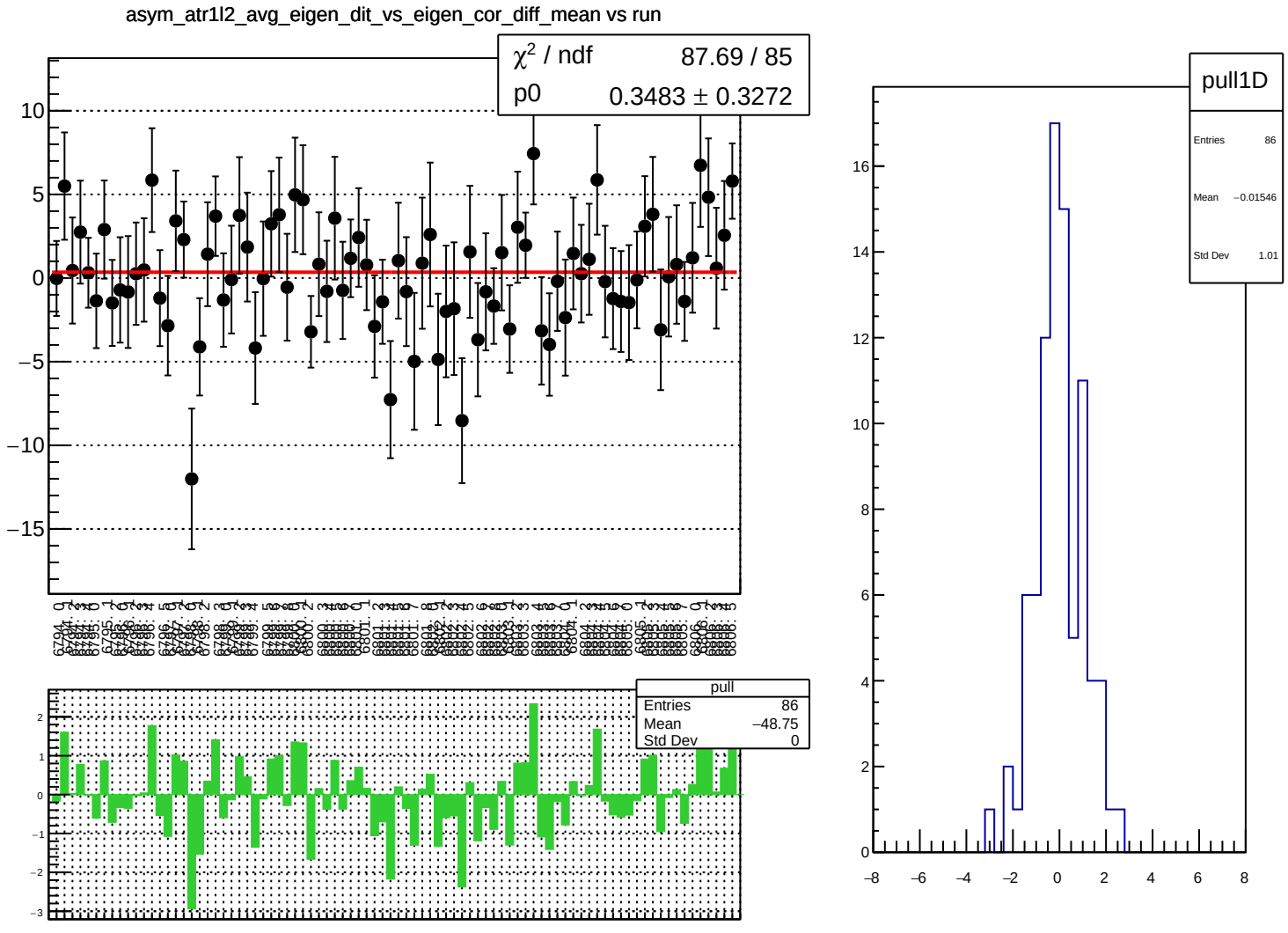

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.6 / 85
p0 3.2e−06 ± 4.148e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −43.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

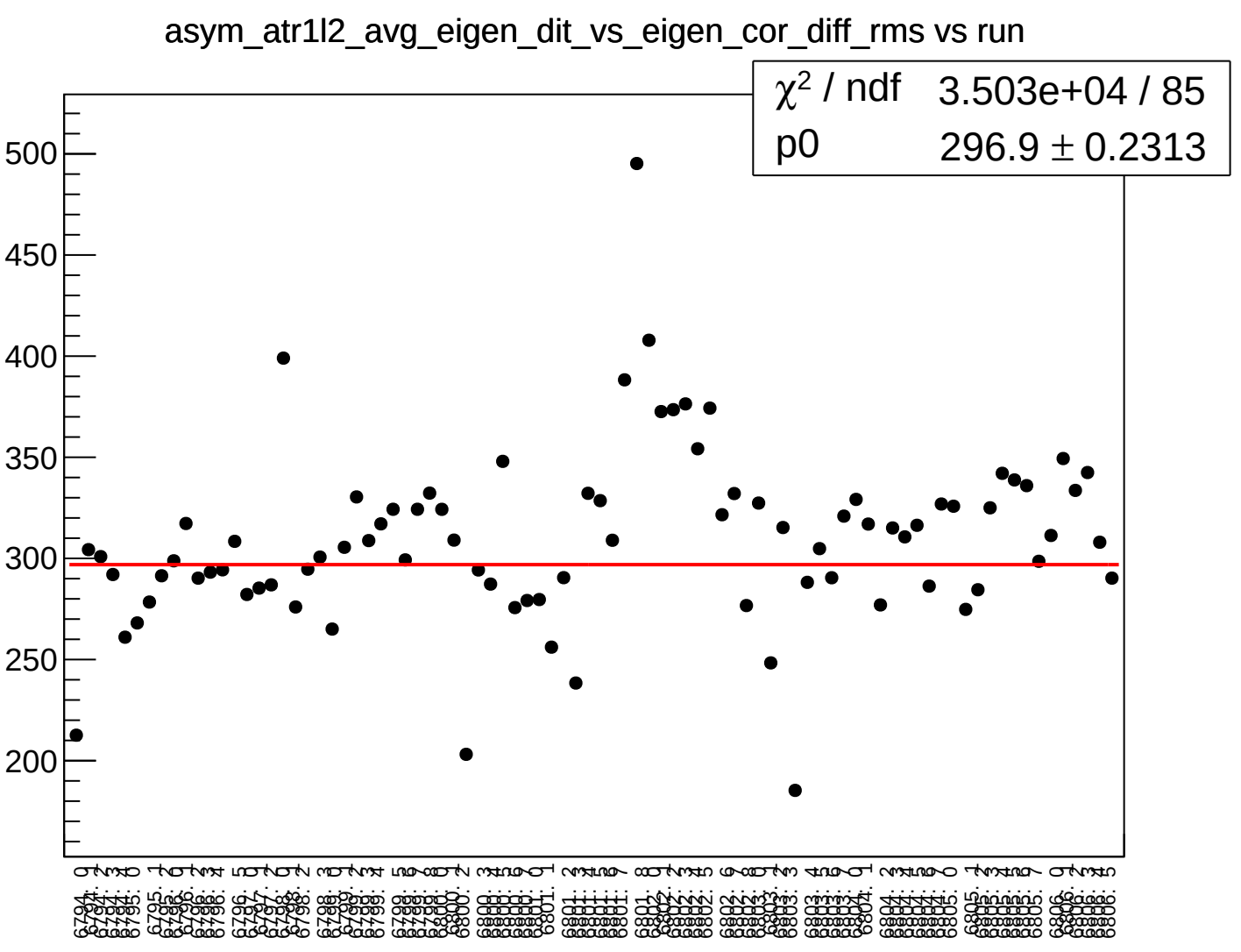

pull1D
Entries 86
Mean 0.006368
Std Dev 0.906
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

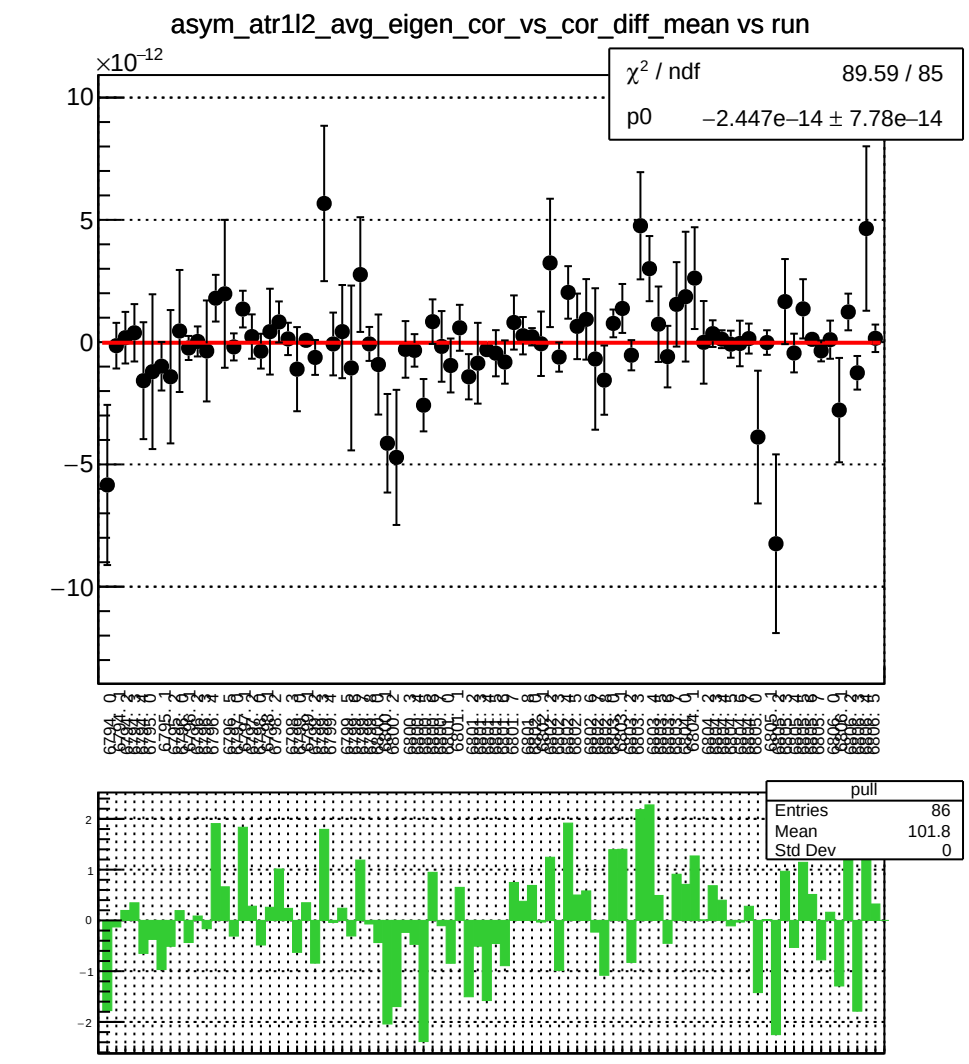

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.316e+04 / 85
p0 0.00379 ± 2.933e–06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

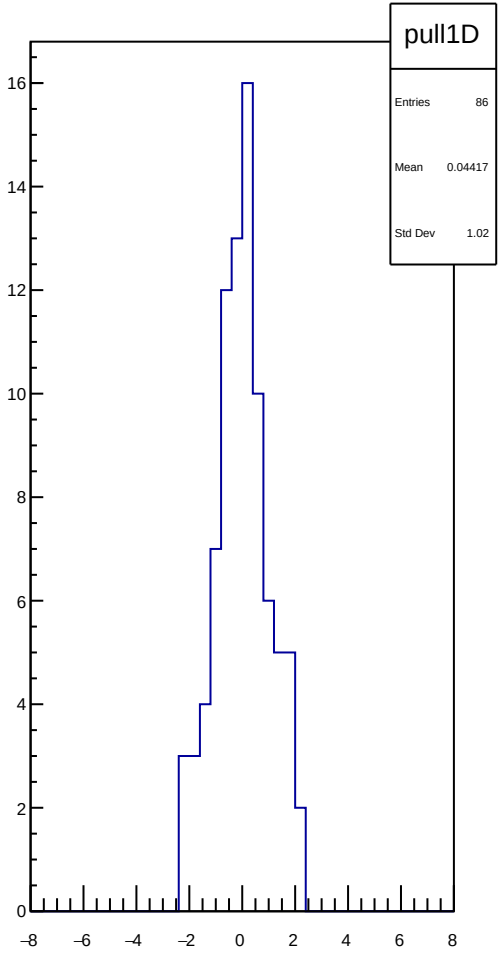

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.69 / 85
p0 0.3483 ± 0.3272
pull
Entries 86
Mean −48.75
Std Dev 0
pull1D
Entries 86
Mean −0.01546
Std Dev 1.01

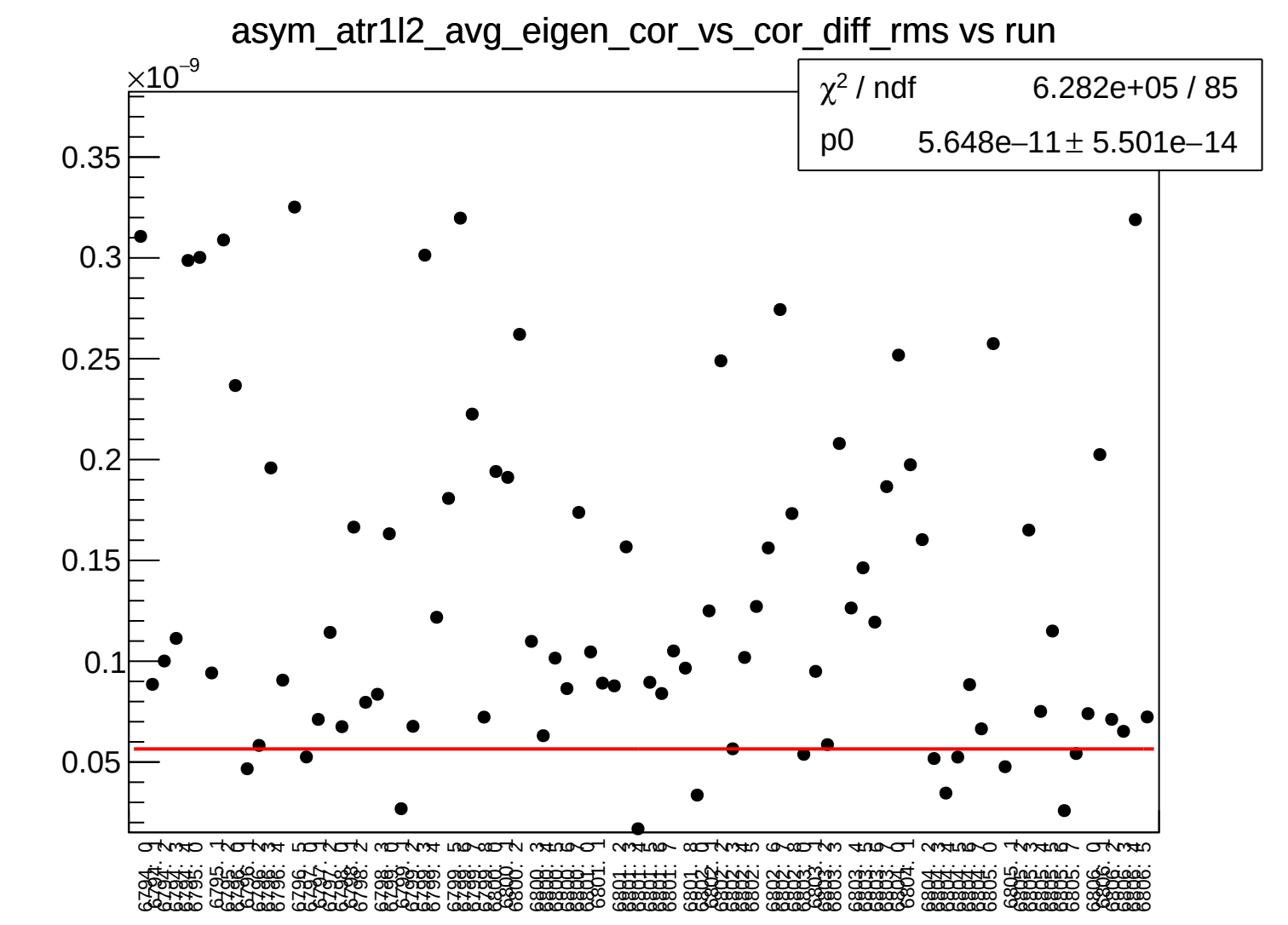

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 85
p0 296.9 ± 0.2313
500
450
400
350
300
250
200

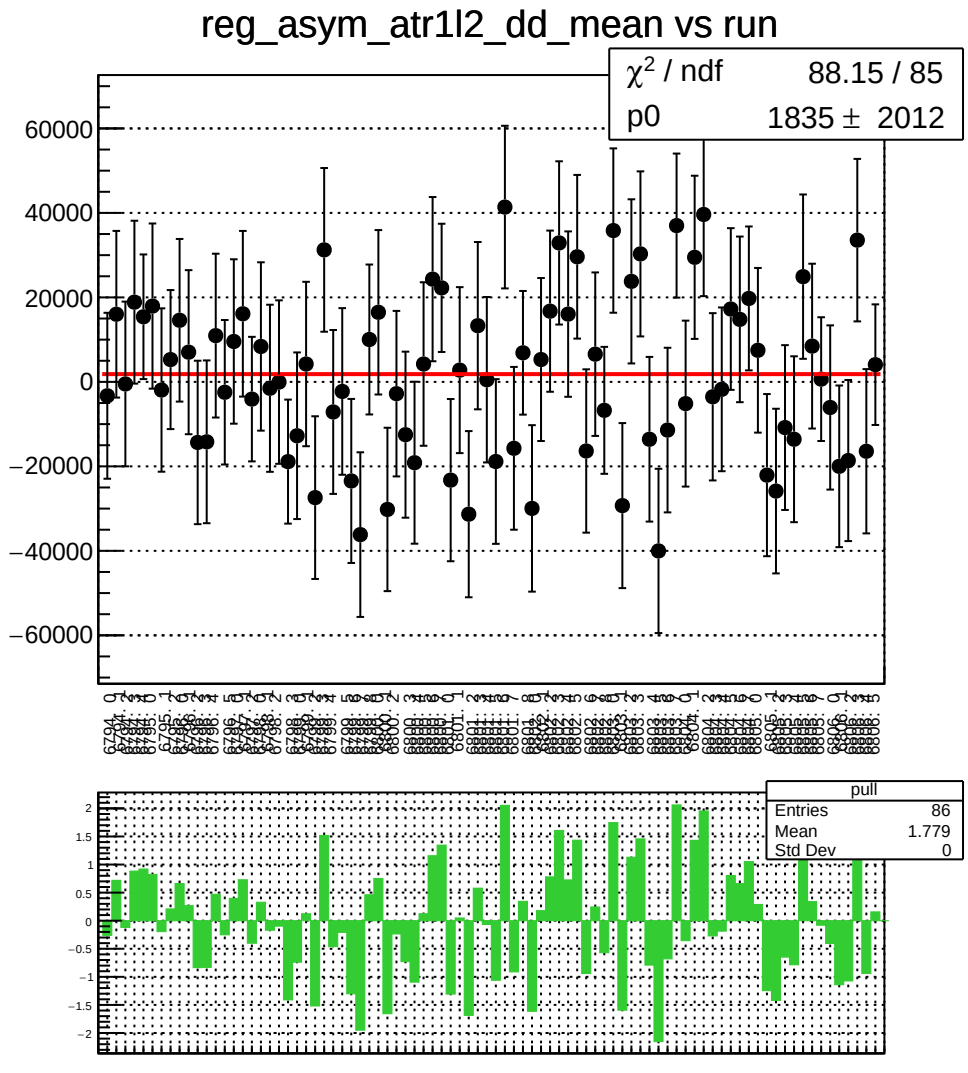

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.69 / 85
p0 0.3483 ± 0.3272
pull
Entries 86
Mean −48.75
Std Dev 0
pull1D
Entries 86
Mean −0.01546
Std Dev 1.01

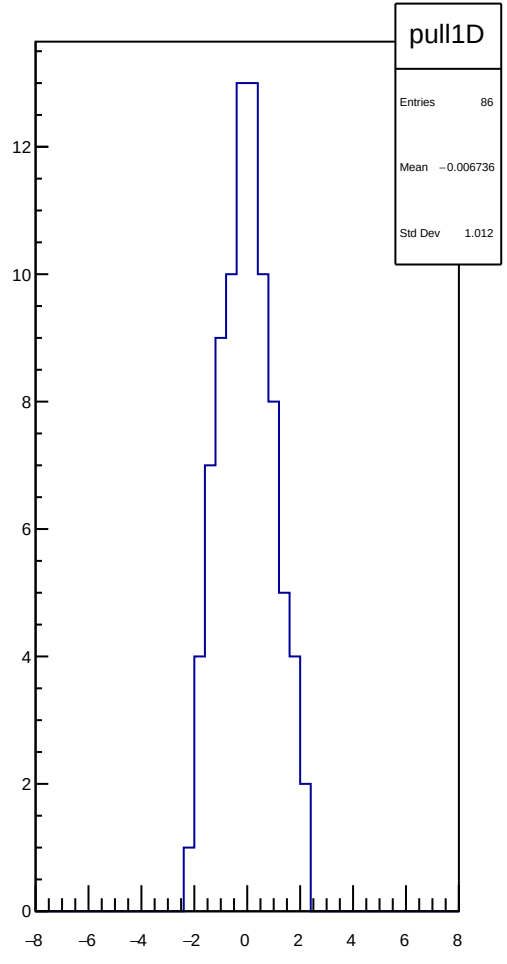

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.503e+04 / 85
p0 296.9 ± 0.2313
500
450
400
350
300
250
200

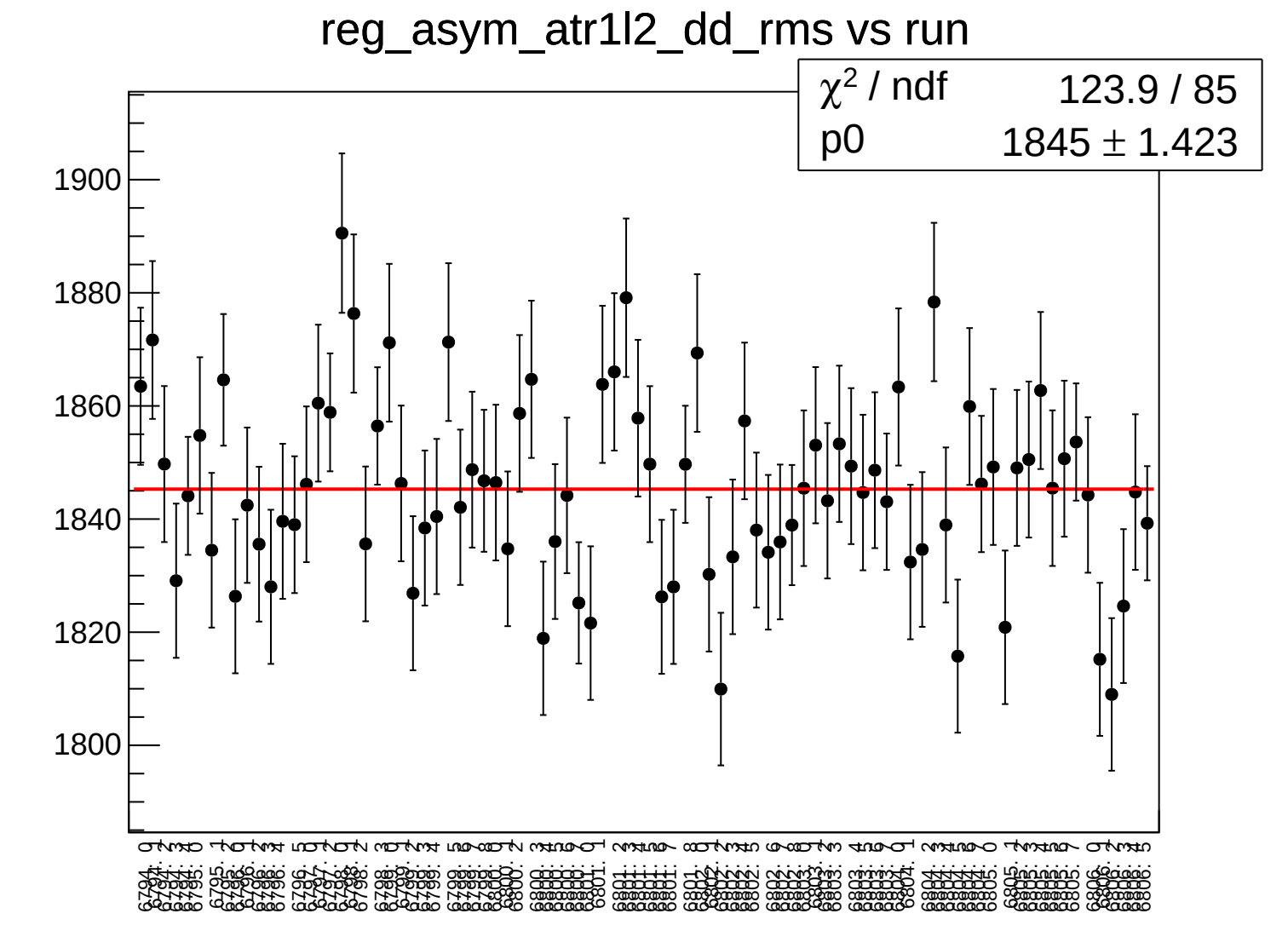

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.59 / 85
p0 −2.447e−14 ± 7.78e−14
pull
Entries 86
Mean 101.8
Std Dev 0

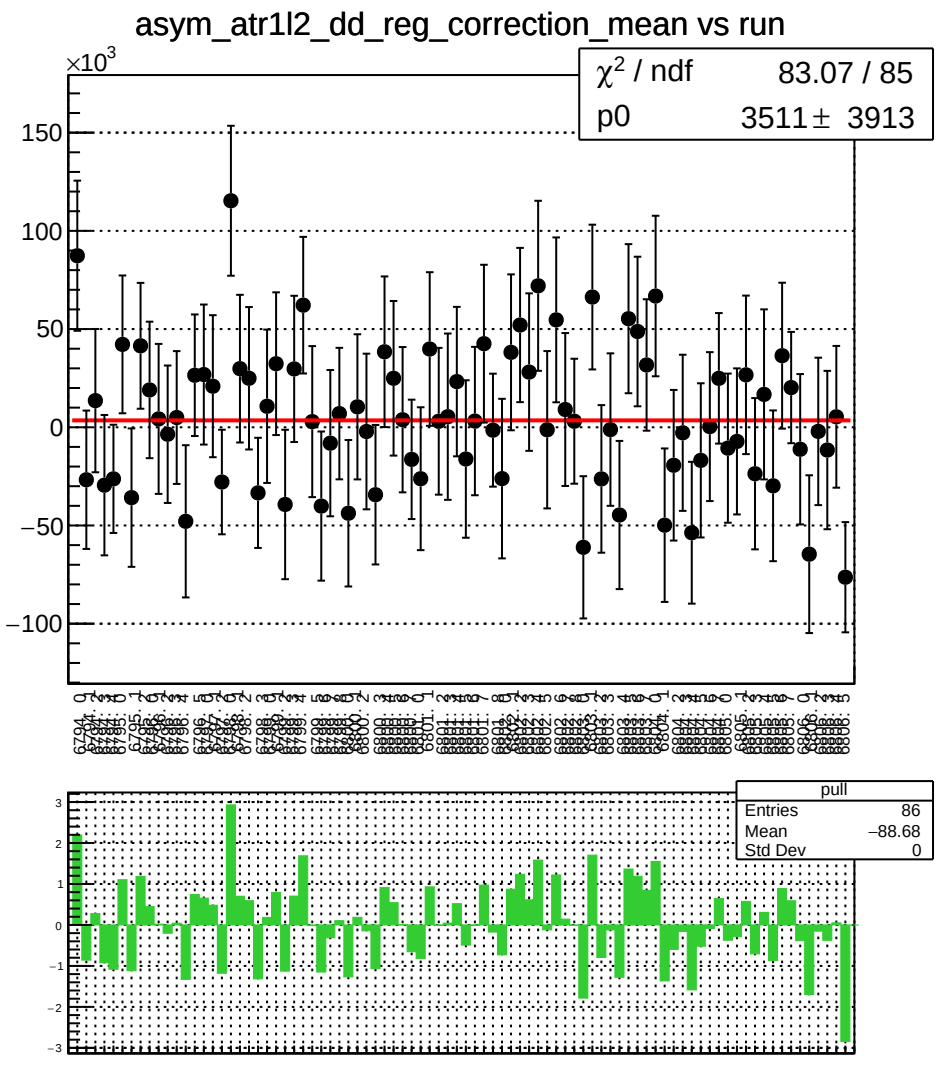

pull1D
Entries 86
Mean 0.04417
Std Dev 1.02

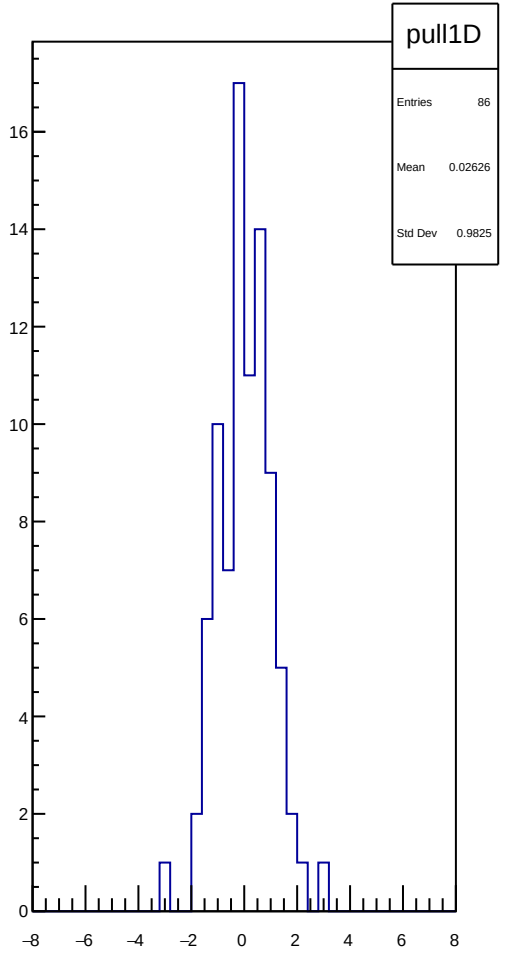

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.282e+05 / 85
p0 5.648e−11 ± 5.501e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

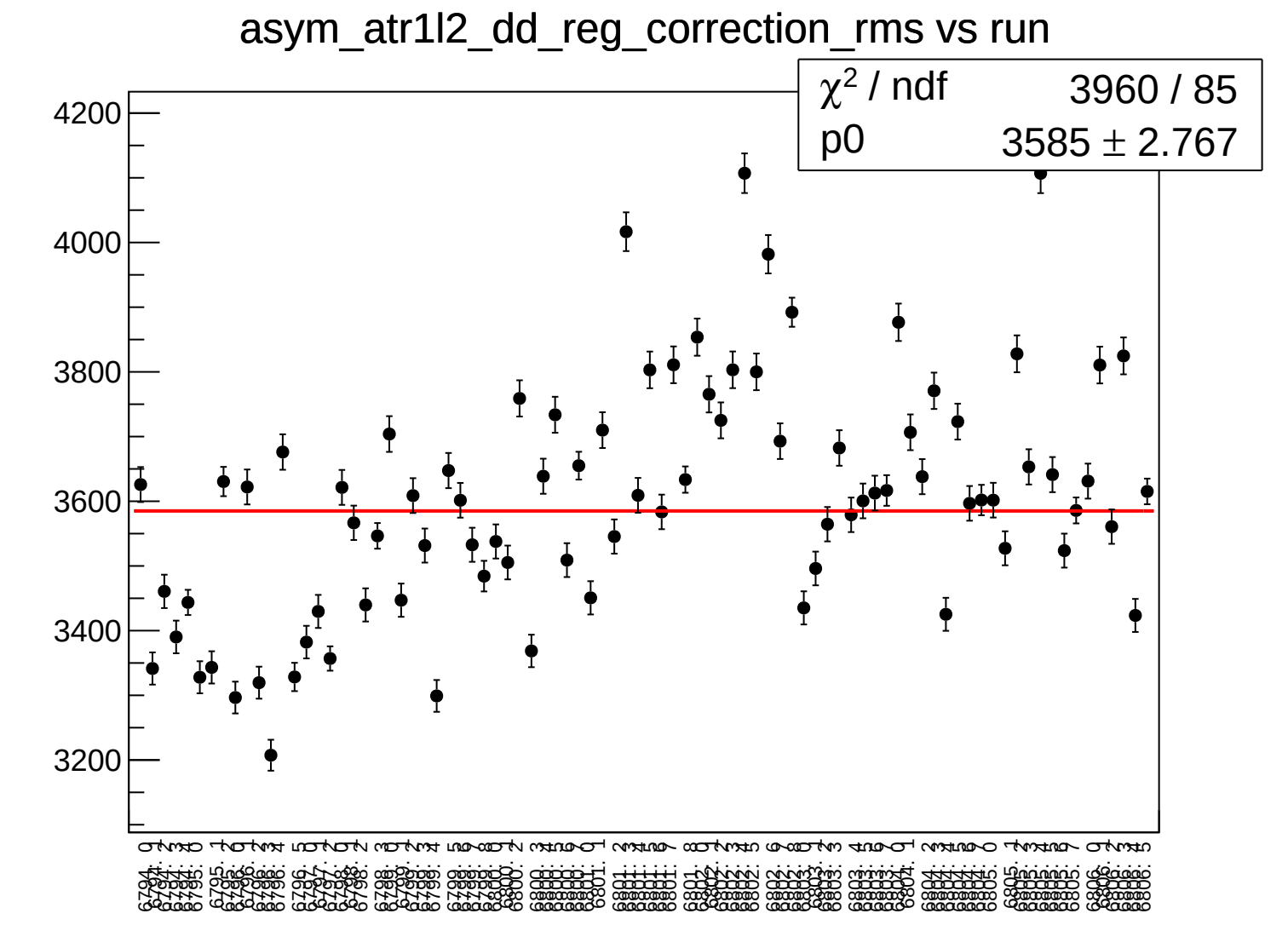

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 88.15 / 85
p0 1835 ± 2012
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1.779
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

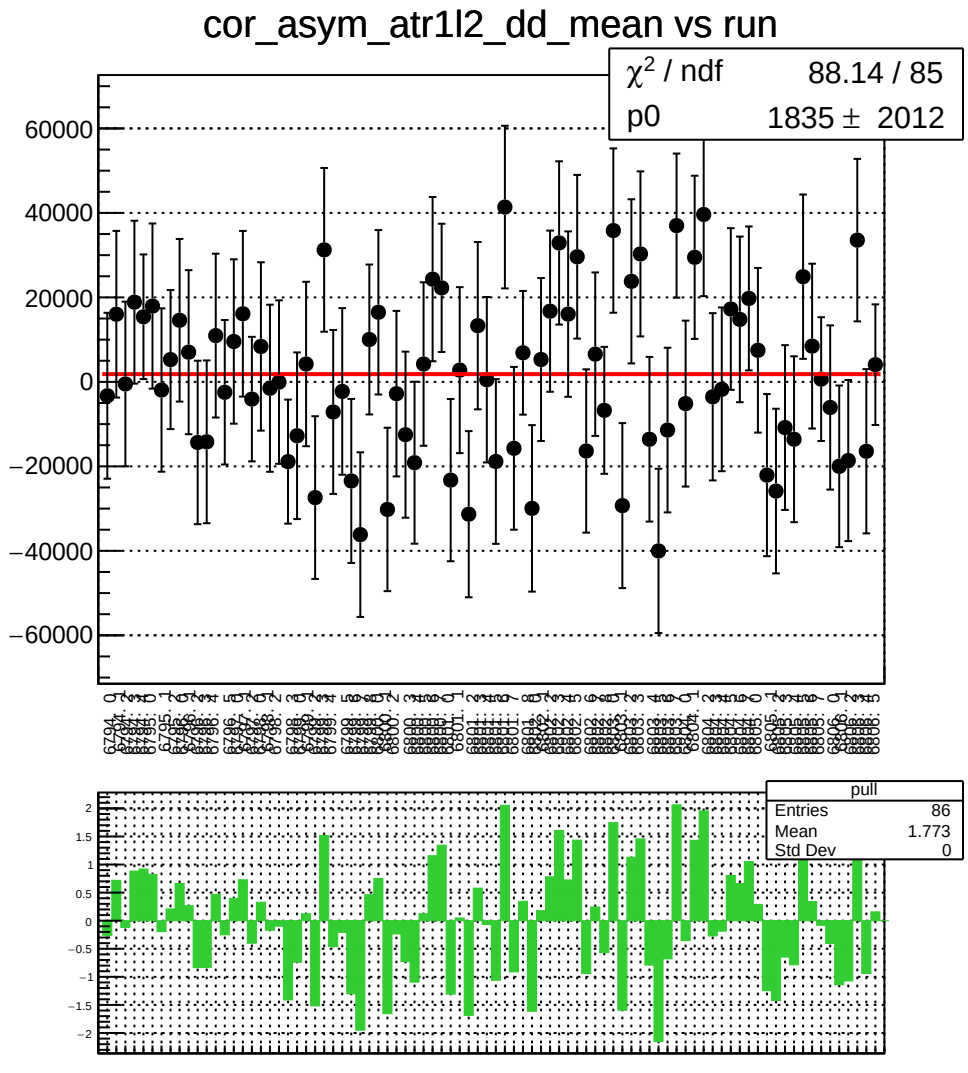

pull1D
Entries 86
Mean −0.006736
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

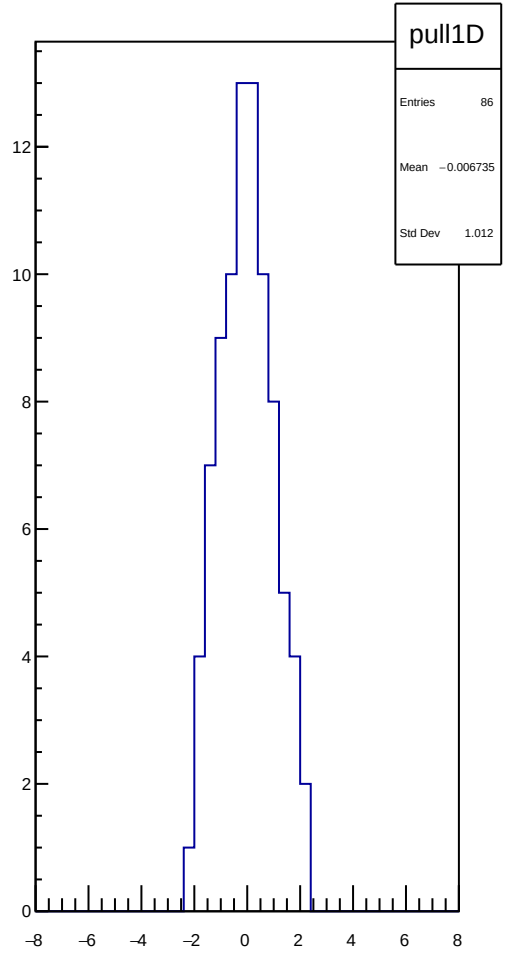

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 123.9 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

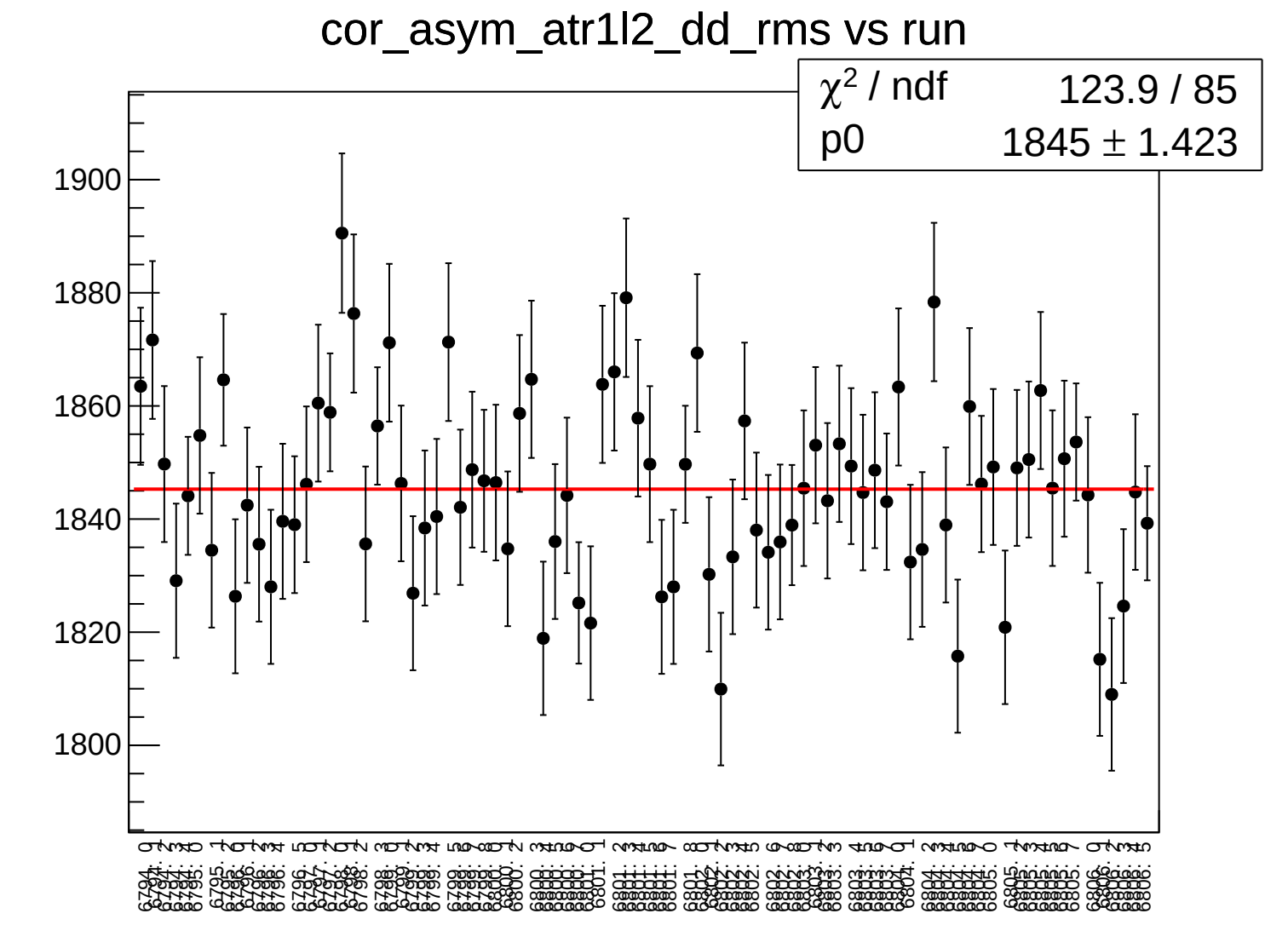

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 83.07 / 85
p0 3511 ± 3913
150
100
50
0
−50
−100
pull
Entries 86
Mean −88.68
Std Dev 0
3
2
1
0
−1
−2
−3

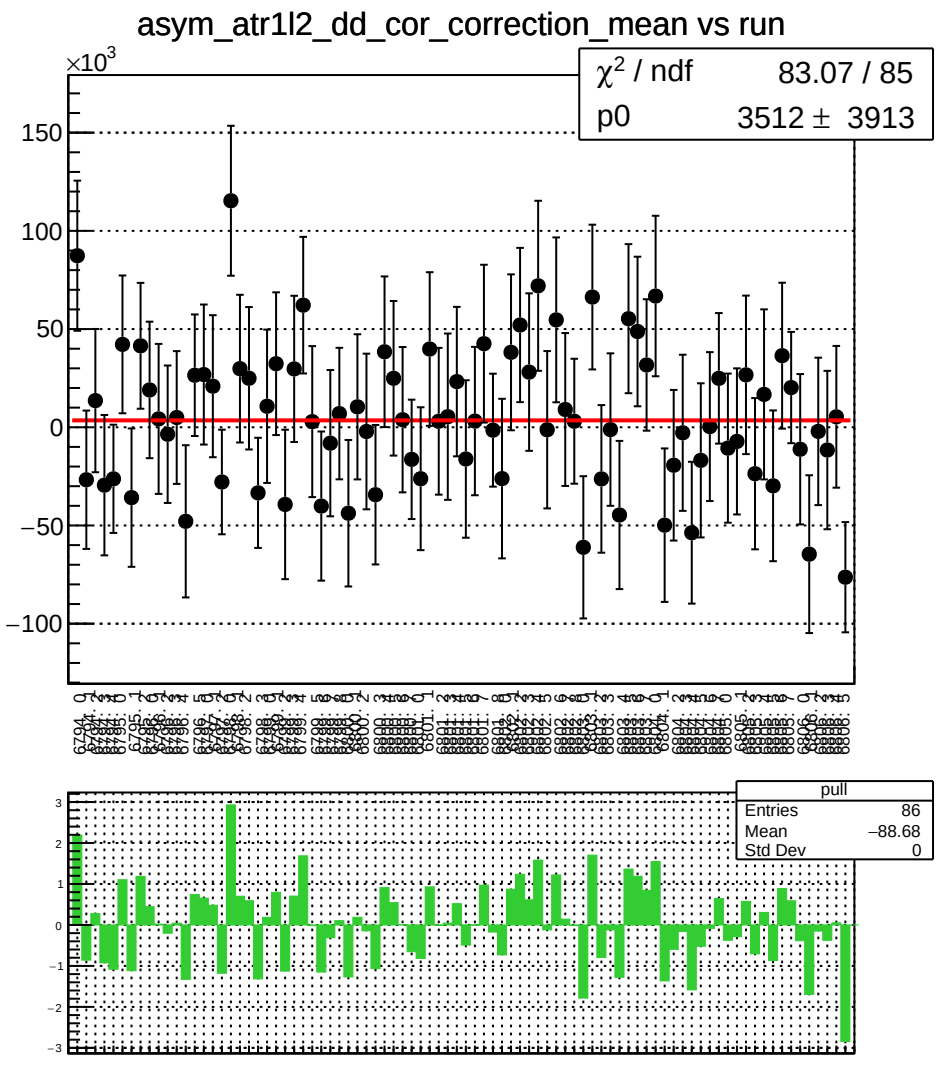

pull1D
Entries 86
Mean 0.02626
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

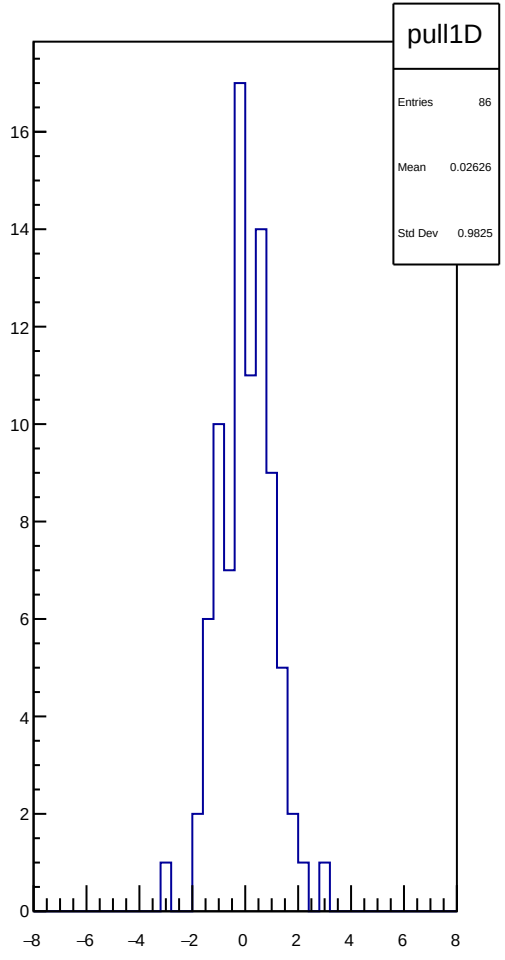

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3960 / 85
p0 3585 ± 2.767
4200
4000
3800
3600
3400
3200

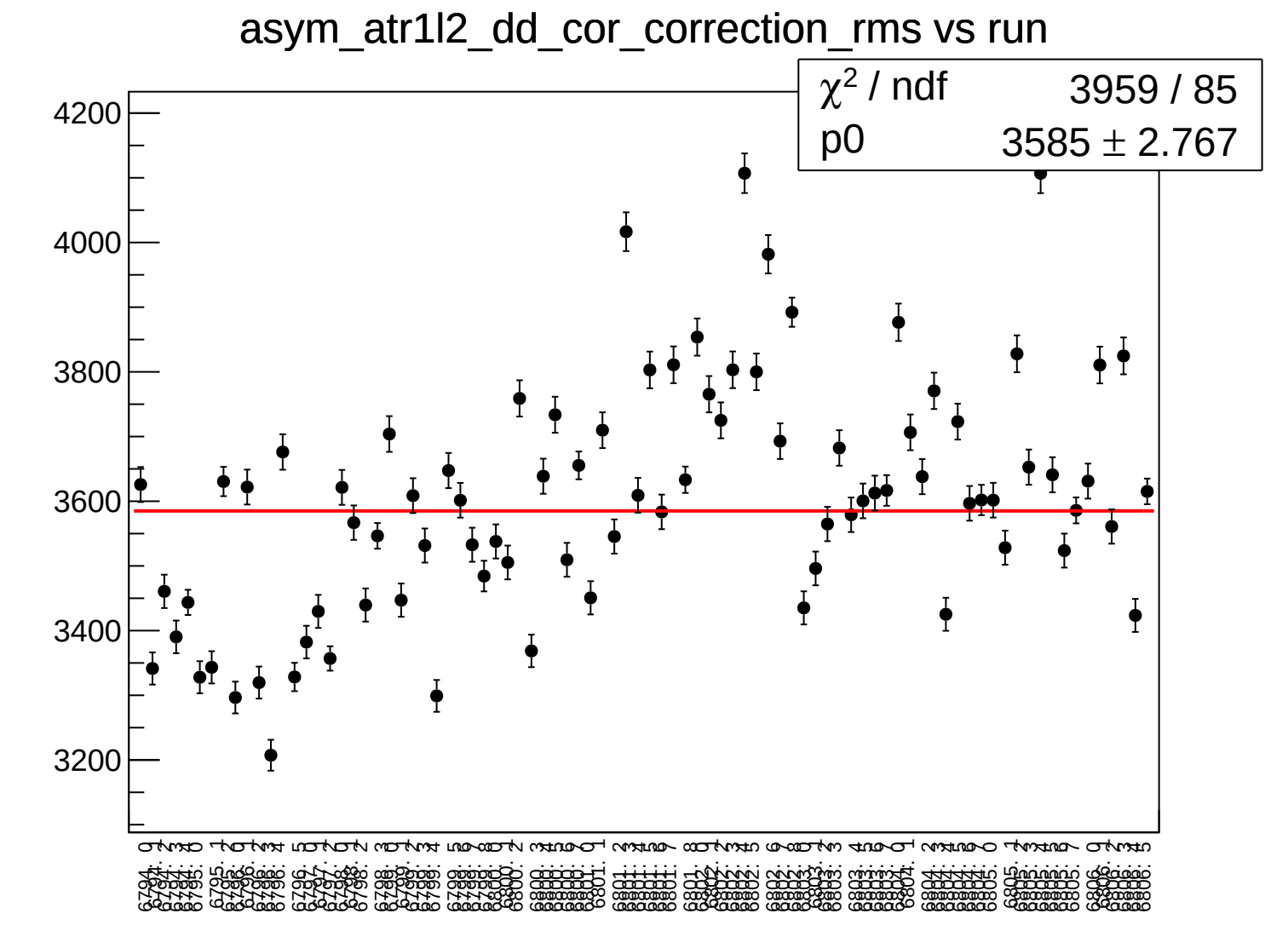

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 88.14 / 85
p0 1835 ± 2012
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1.773
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

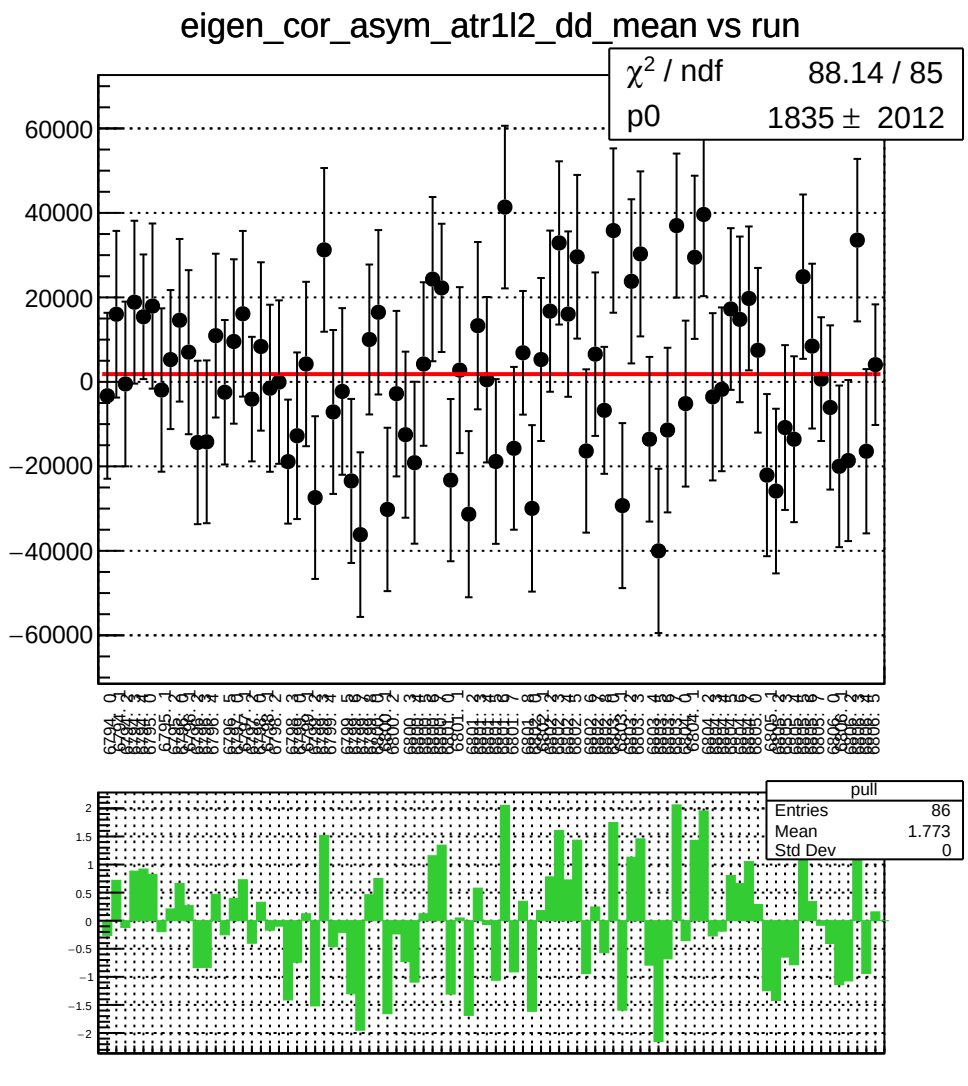

pull1D
Entries 86
Mean −0.006735
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

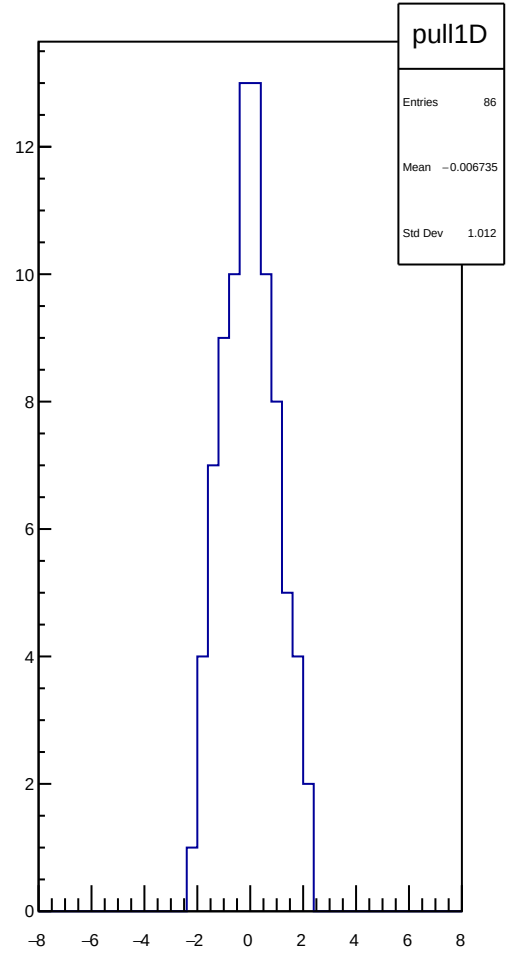

cor_asym_atr1l2_dd_rms vs run
χ^2 / ndf 123.9 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

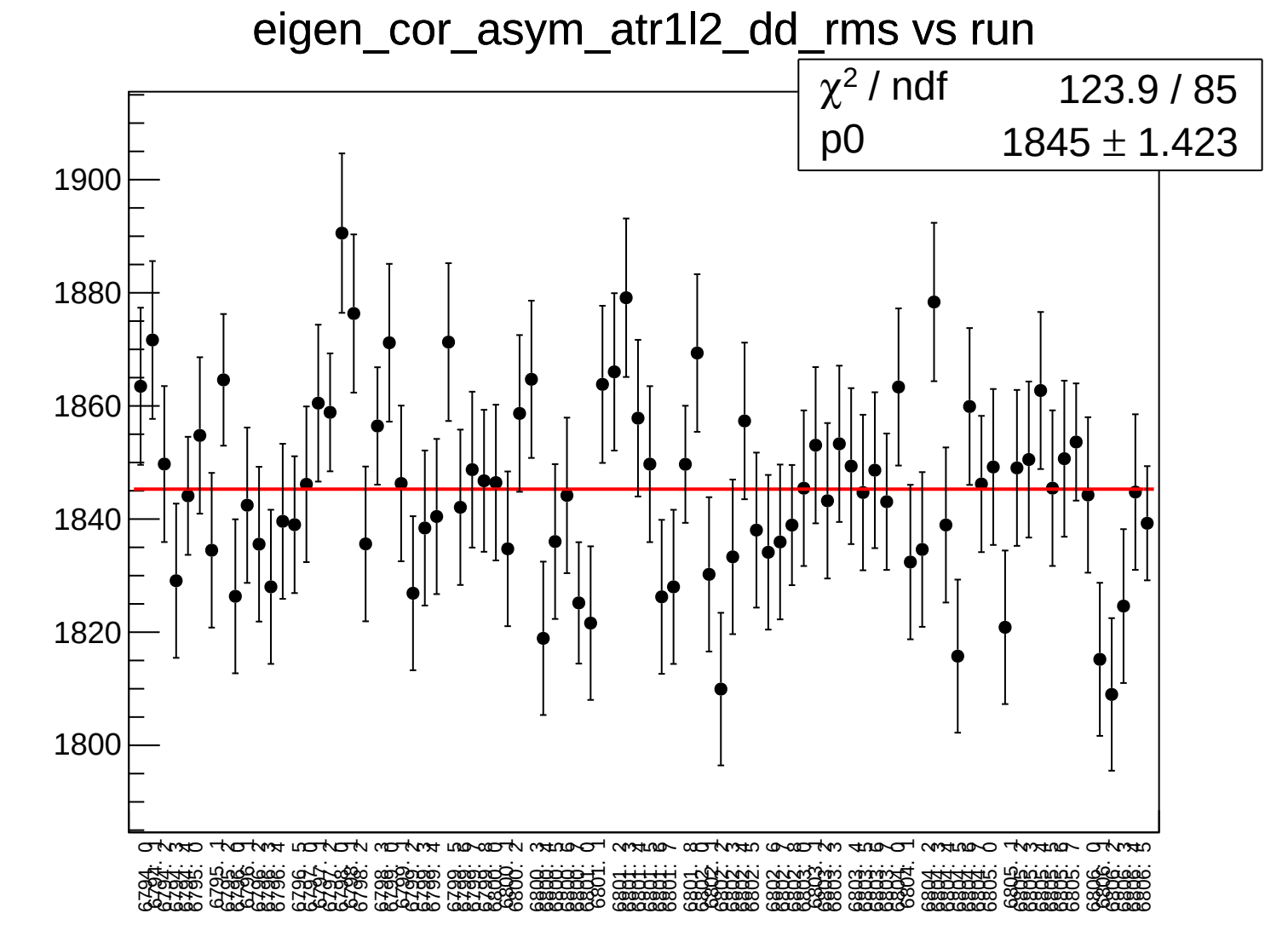

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 83.07 / 85
p0 3512 ± 3913
150
100
50
0
−50
−100
pull
Entries 86
Mean −88.68
Std Dev 0
3
2
1
0
−1
−2
−3

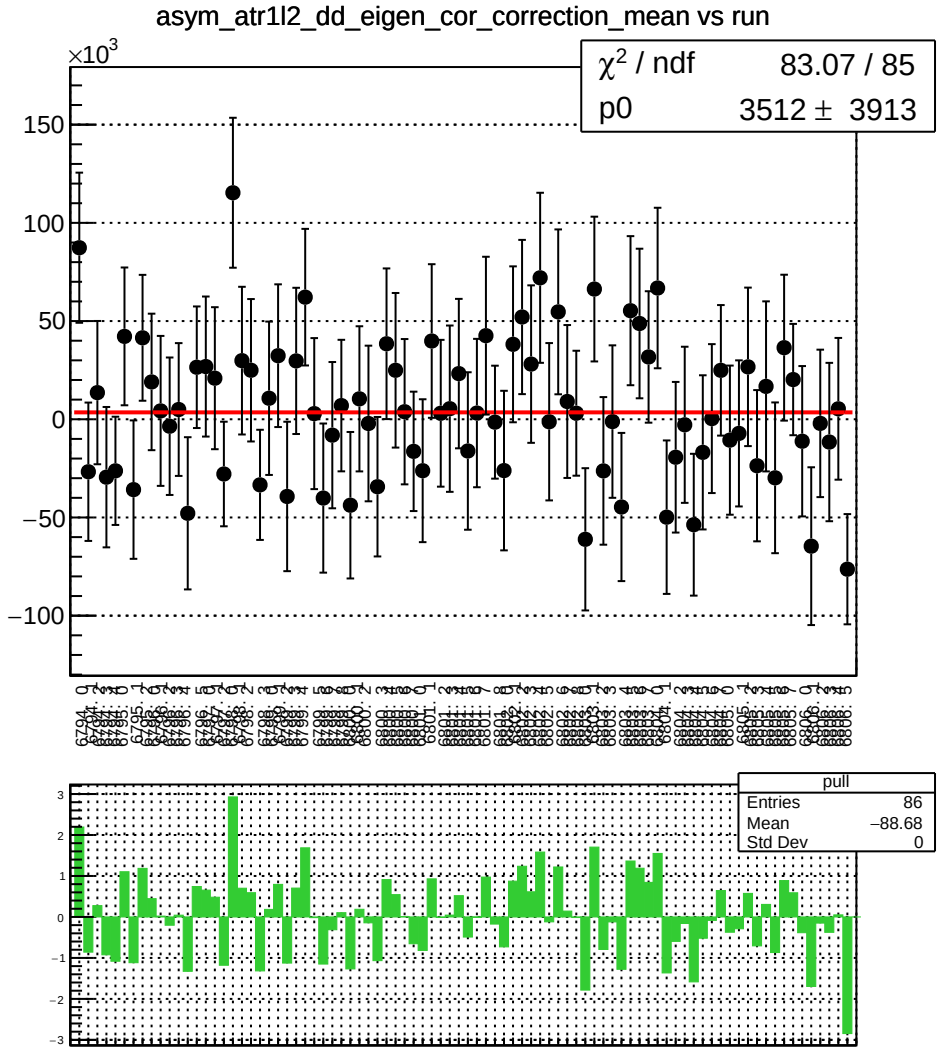

pull1D
Entries 86
Mean 0.02626
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

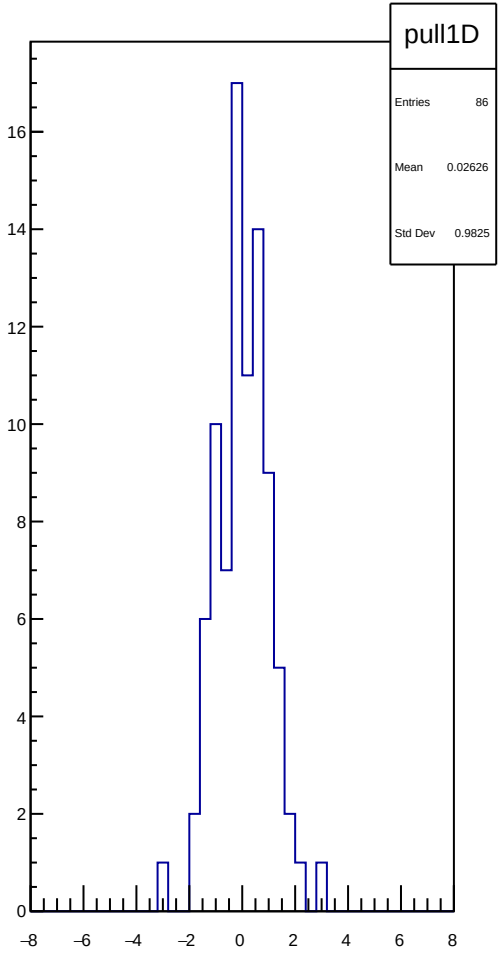

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3959 / 85
p0 3585 ± 2.767
4200
4000
3800
3600
3400
3200

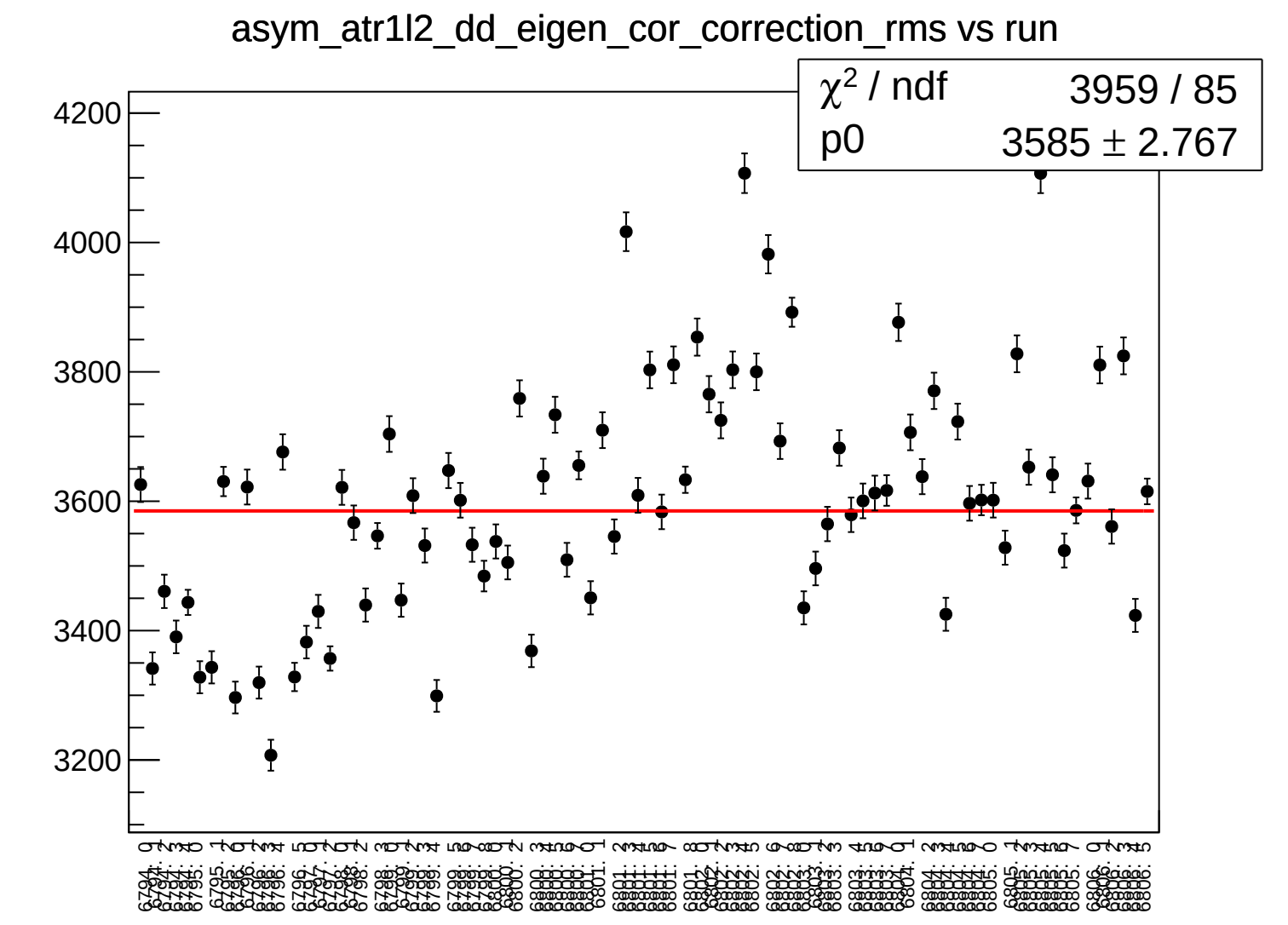

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 88.14 / 85
p0 1835 ± 2012
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 1.773
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

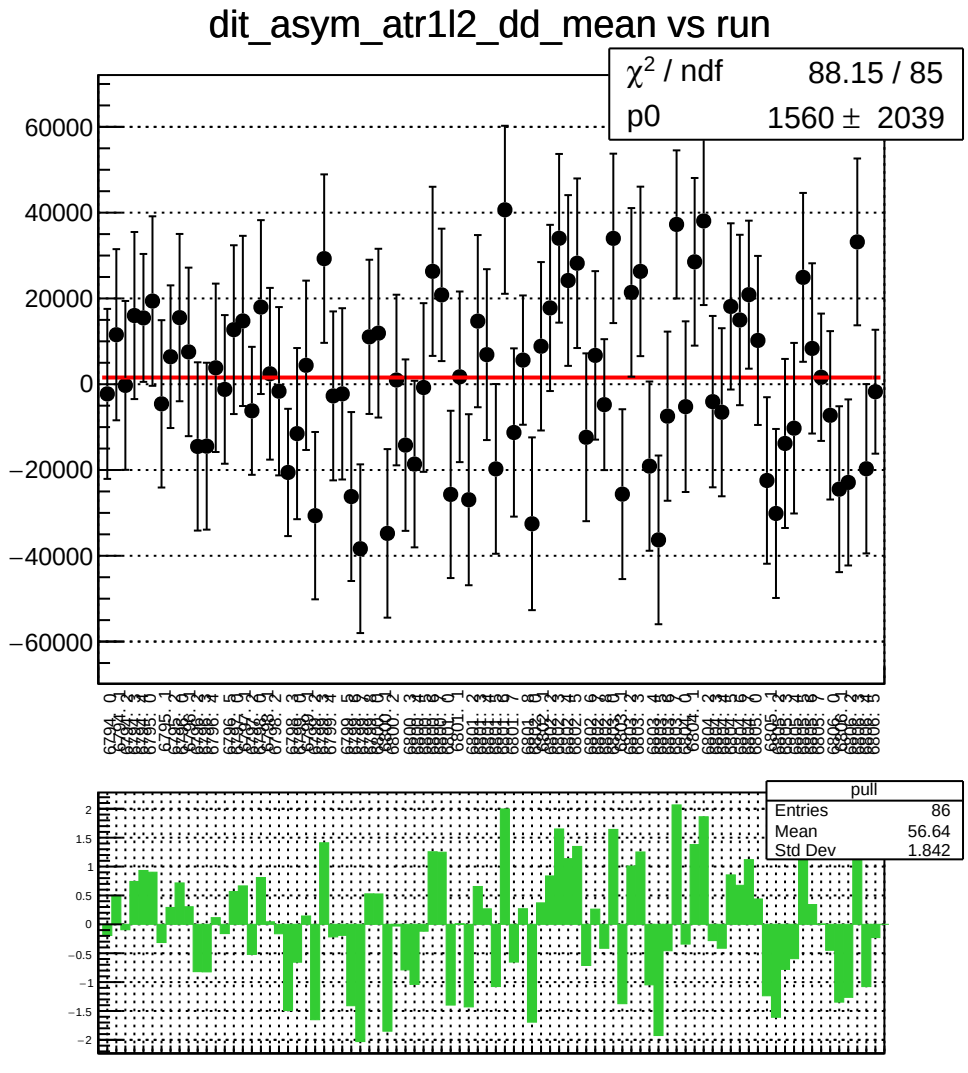

pull1D
Entries 86
Mean −0.006735
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

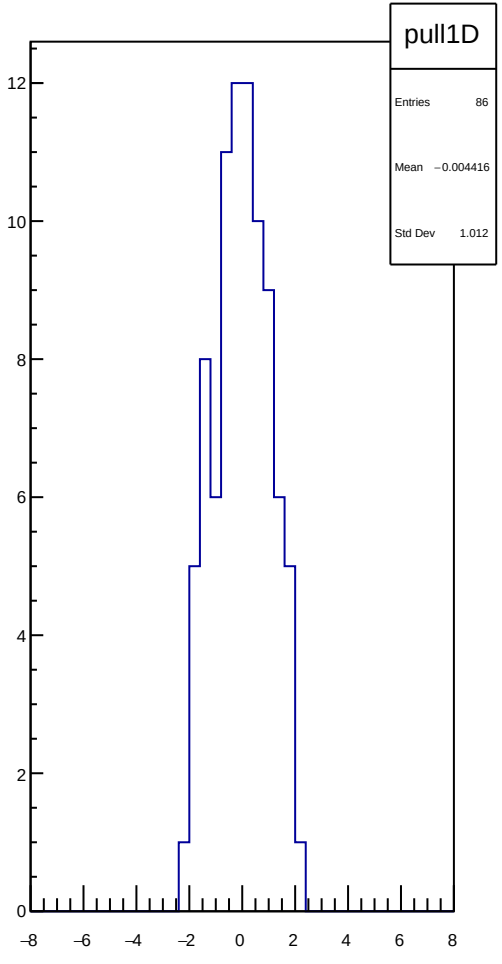

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 123.9 / 85
p0 1845 ± 1.423
1900
1880
1860
1840
1820
1800

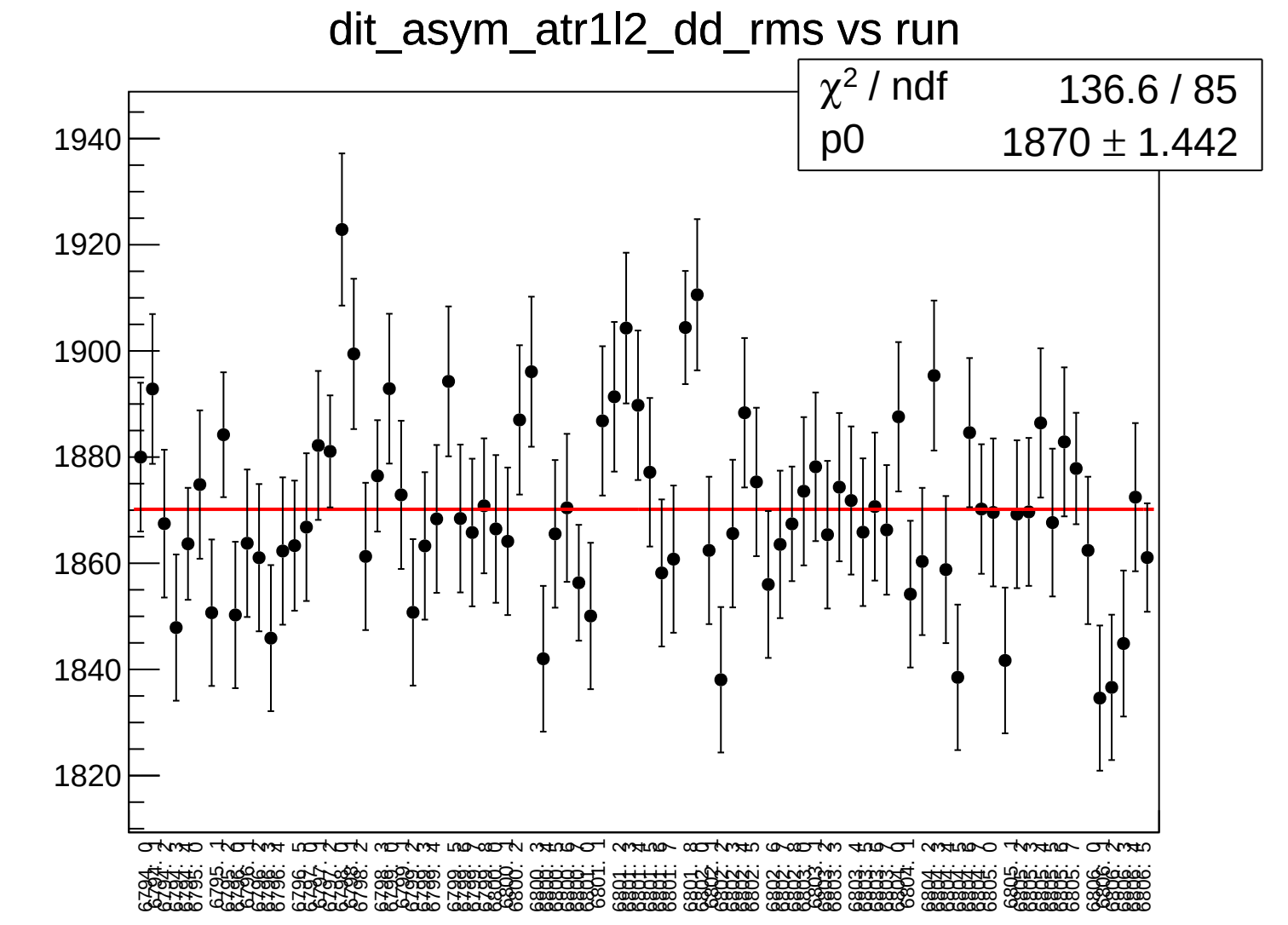

asym_atr1l2_dd_eigen_cor_correction_mean vs run
χ² / ndf 83.07 / 85
p0 3512 ± 3913
pull
Entries 86
Mean −88.68
Std Dev 0

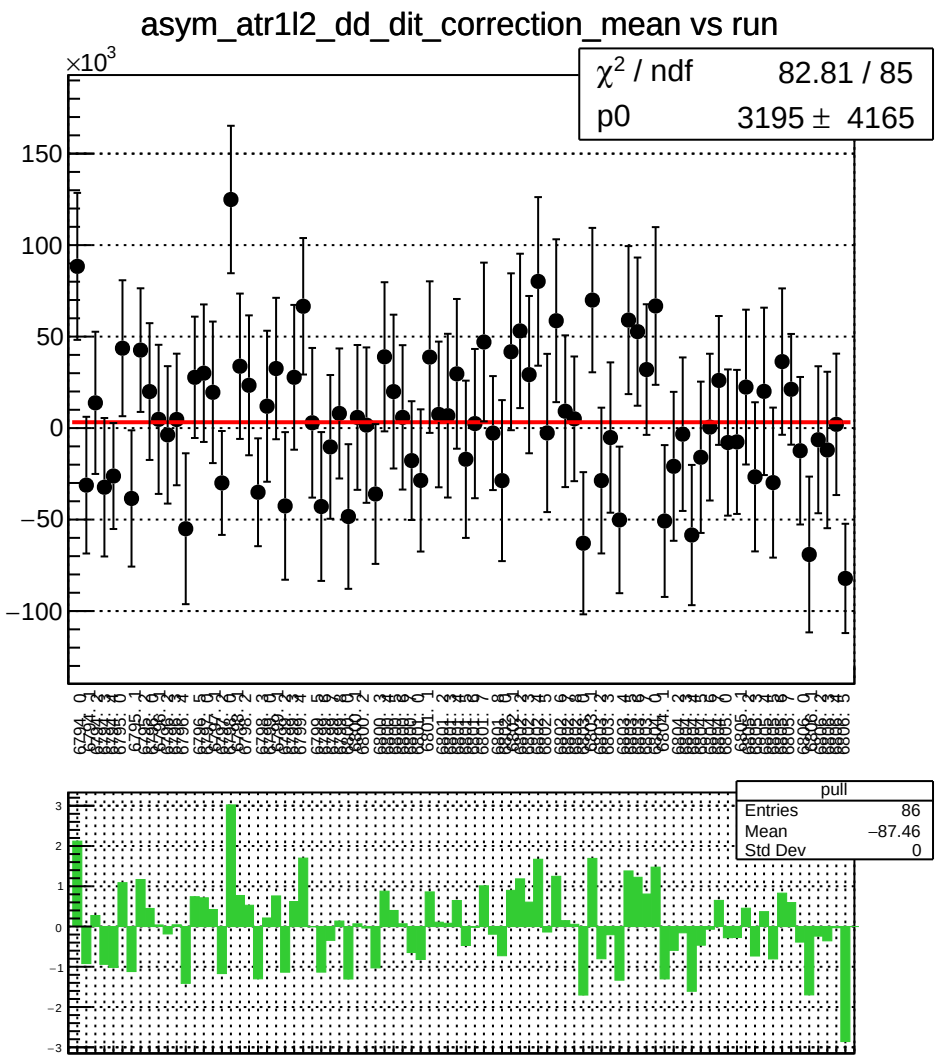

pull1D
Entries 86
Mean 0.02626
Std Dev 0.9825

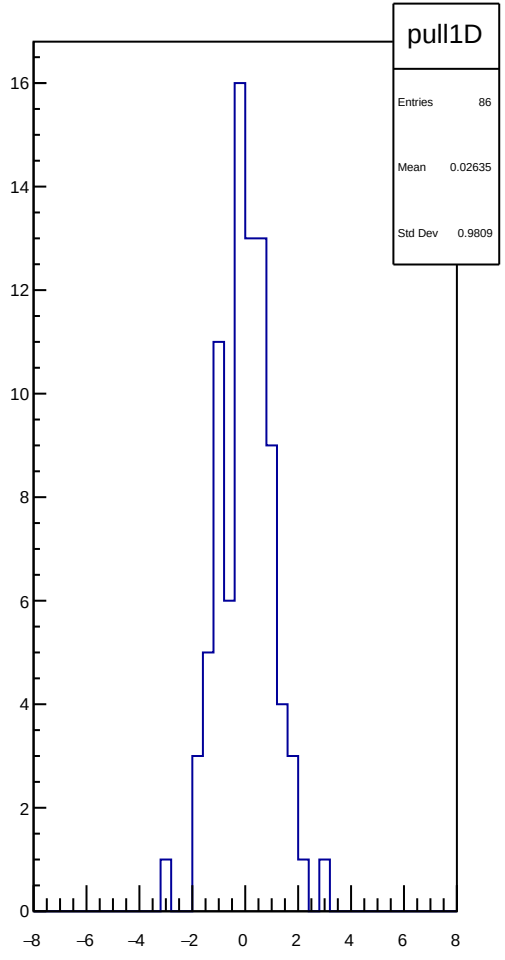

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3959 / 85
p0 3585 ± 2.767
4200
4000
3800
3600
3400
3200

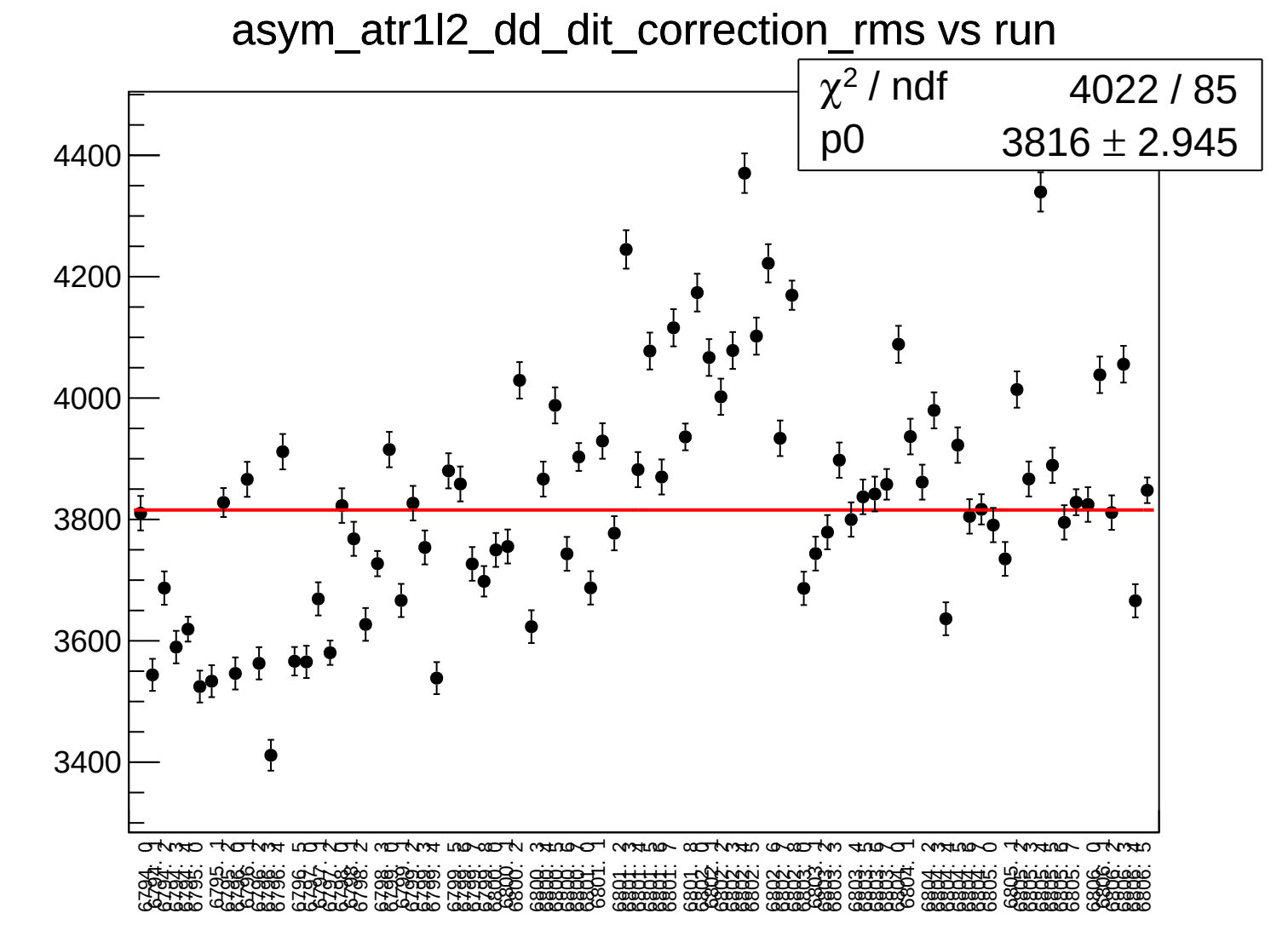

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 88.15 / 85
p0 1560 ± 2039
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 56.64
Std Dev 1.842
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

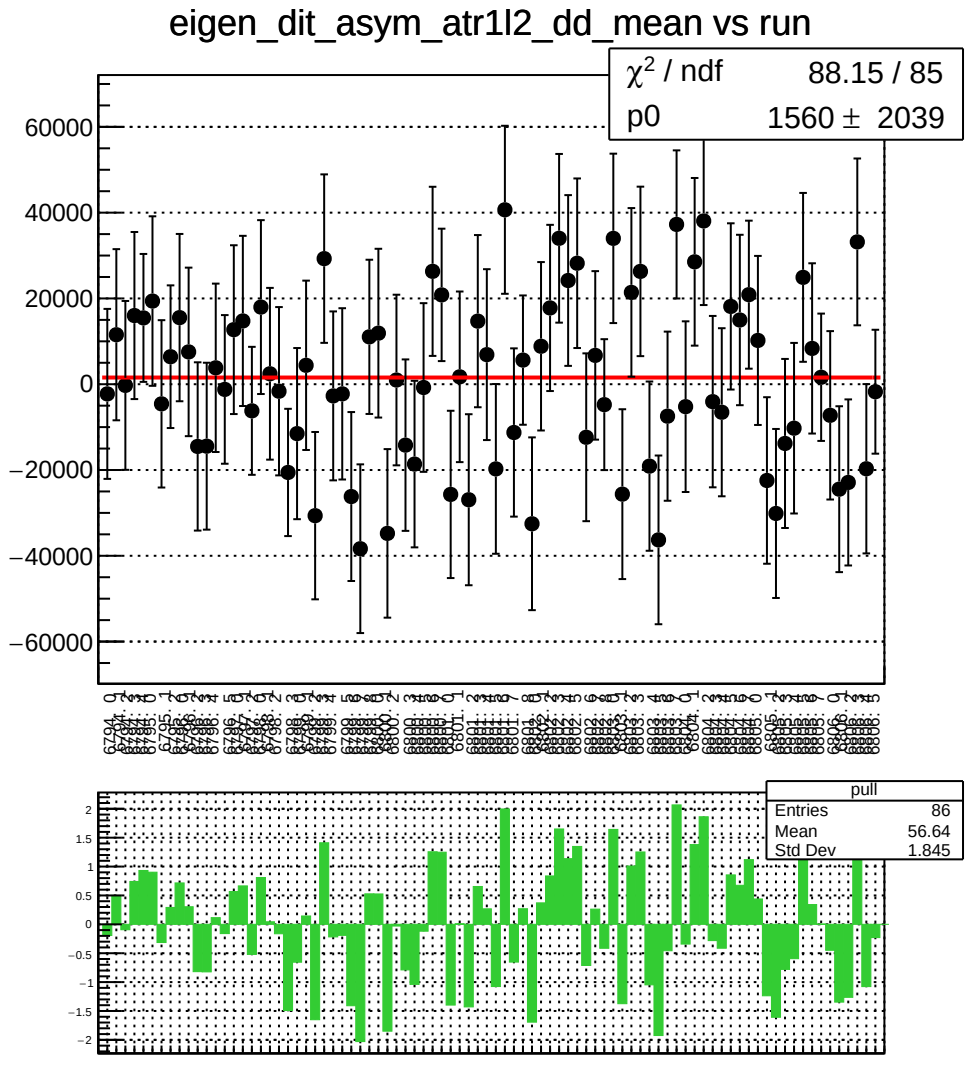

pull1D
Entries 86
Mean −0.004416
Std Dev 1.012
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

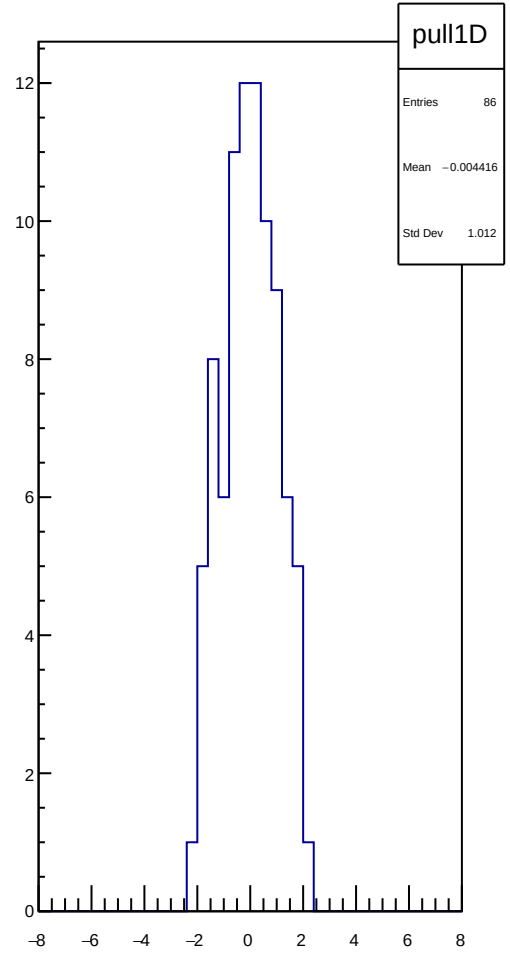

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 136.6 / 85
p0 1870 ± 1.442
1940
1920
1900
1880
1860
1840
1820

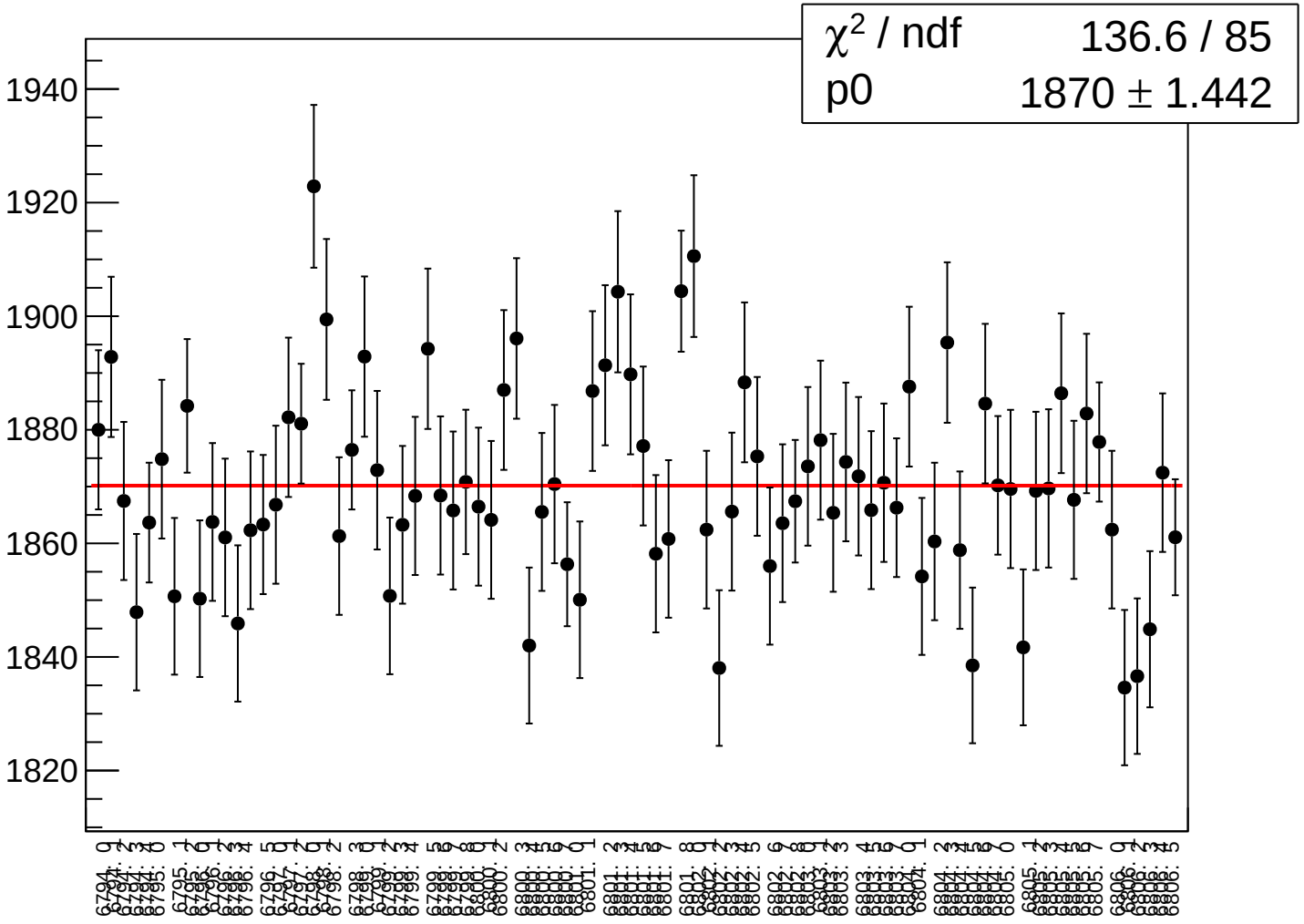

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.81 / 85
p0 3195 ± 4165
150
100
50
0
−50
−100
pull
Entries 86
Mean −87.46
Std Dev 0
3
2
1
0
−1
−2
−3

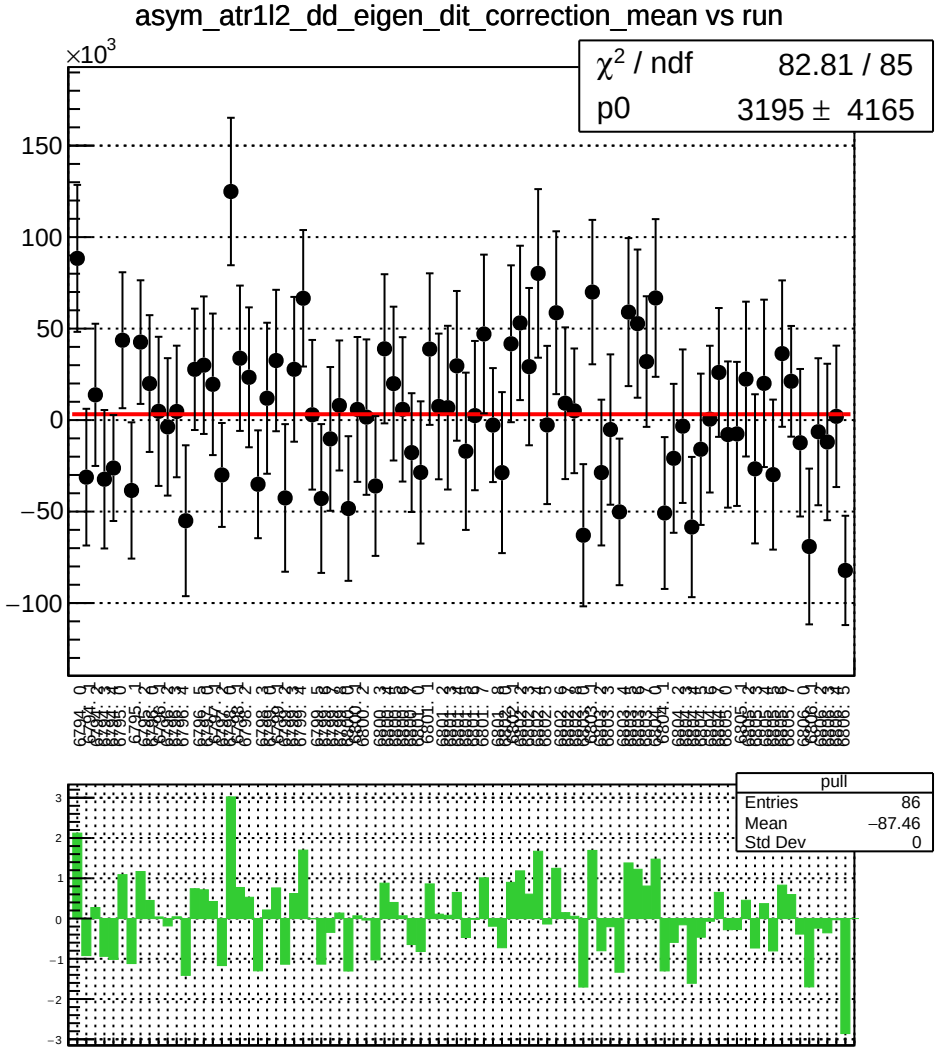

pull1D
Entries 86
Mean 0.02635
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

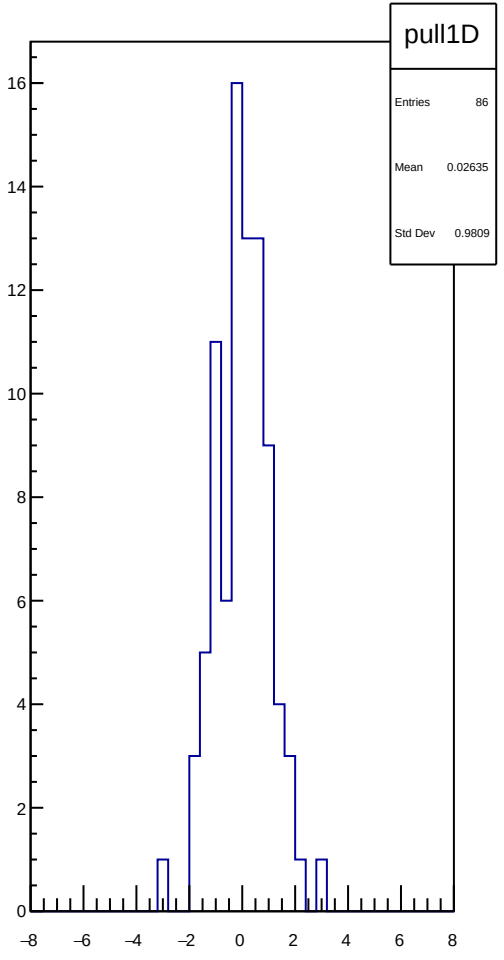

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 4022 / 85
p0 3816 ± 2.945
4400
4200
4000
3800
3600
3400

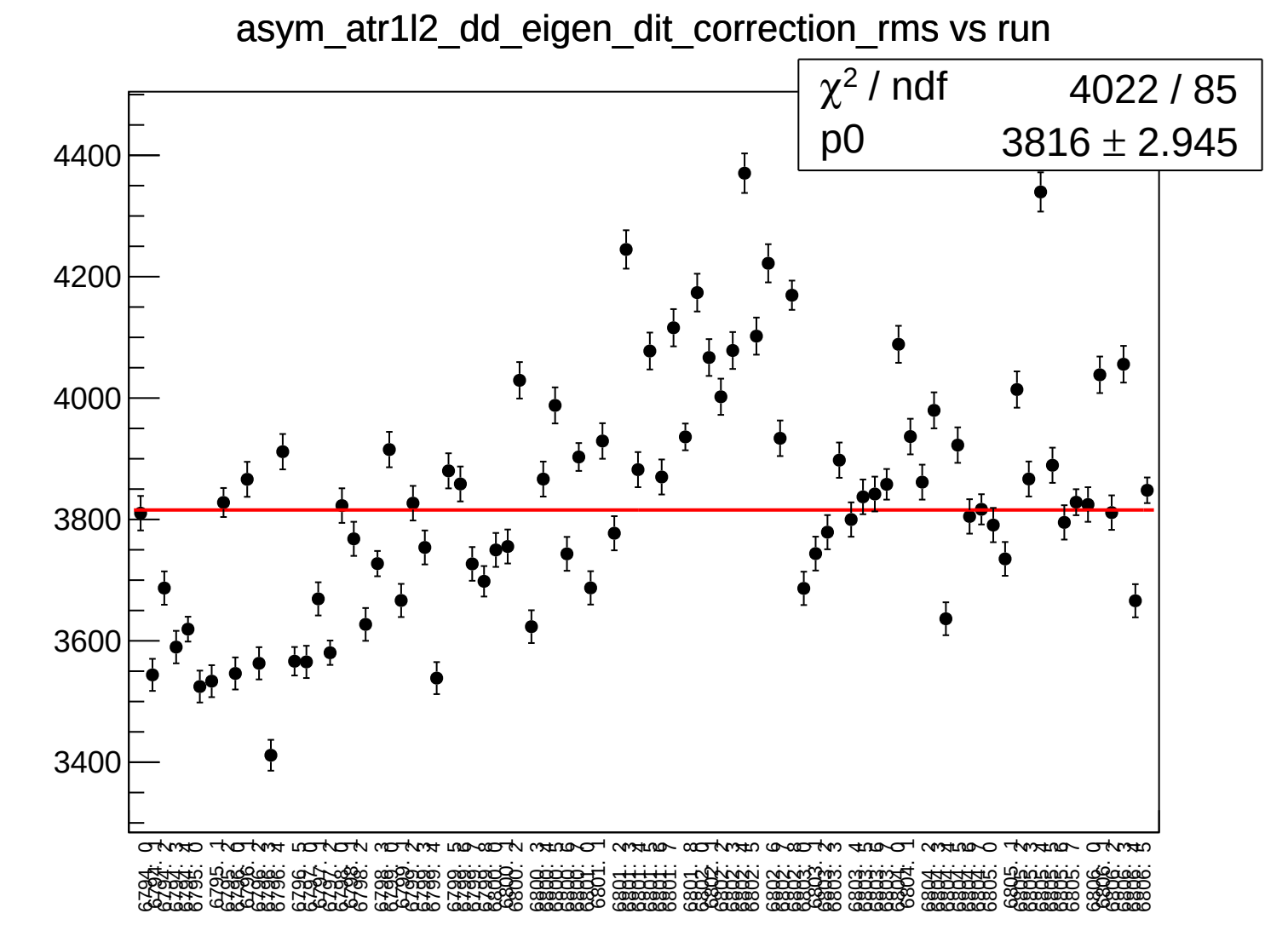

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 88.15 / 85
p0 1560 ± 2039
pull
Entries 86
Mean 56.64
Std Dev 1.845

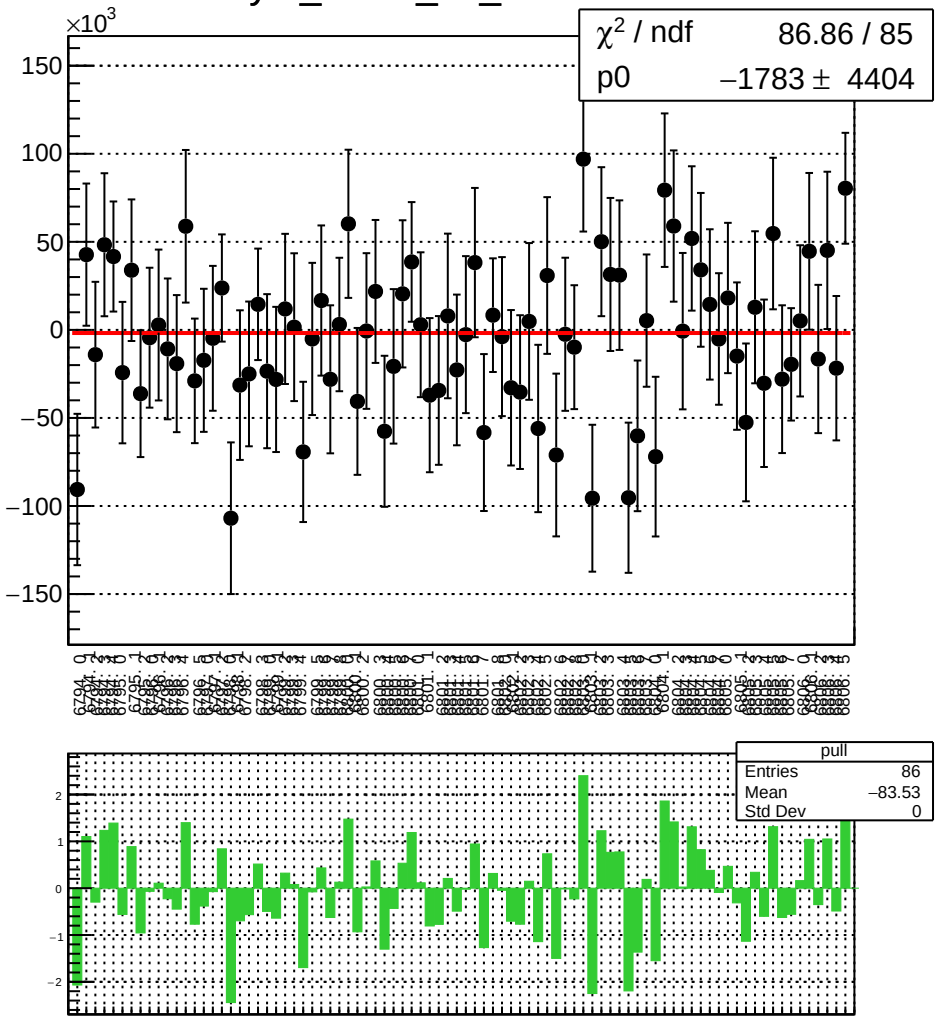

pull1D
Entries 86
Mean −0.004416
Std Dev 1.012

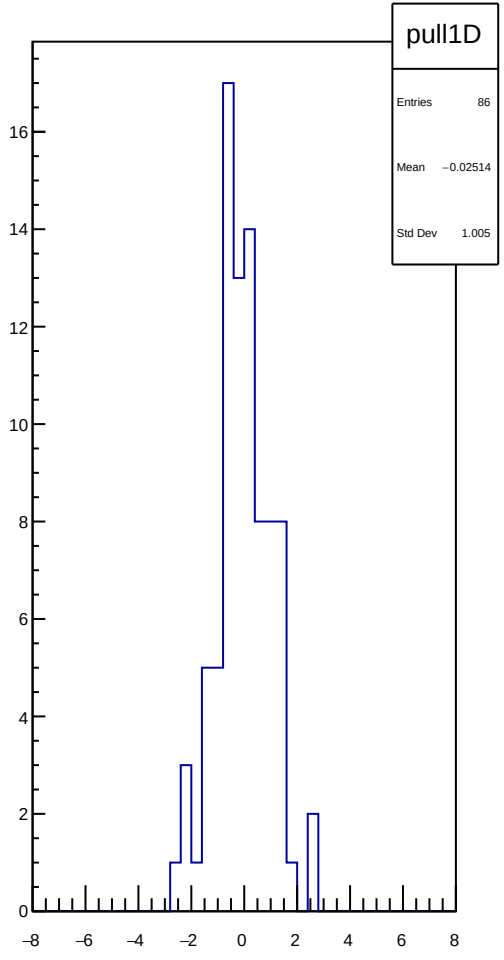

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 136.6 / 85
p0 1870 ± 1.442
1940
1920
1900
1880
1860
1840
1820

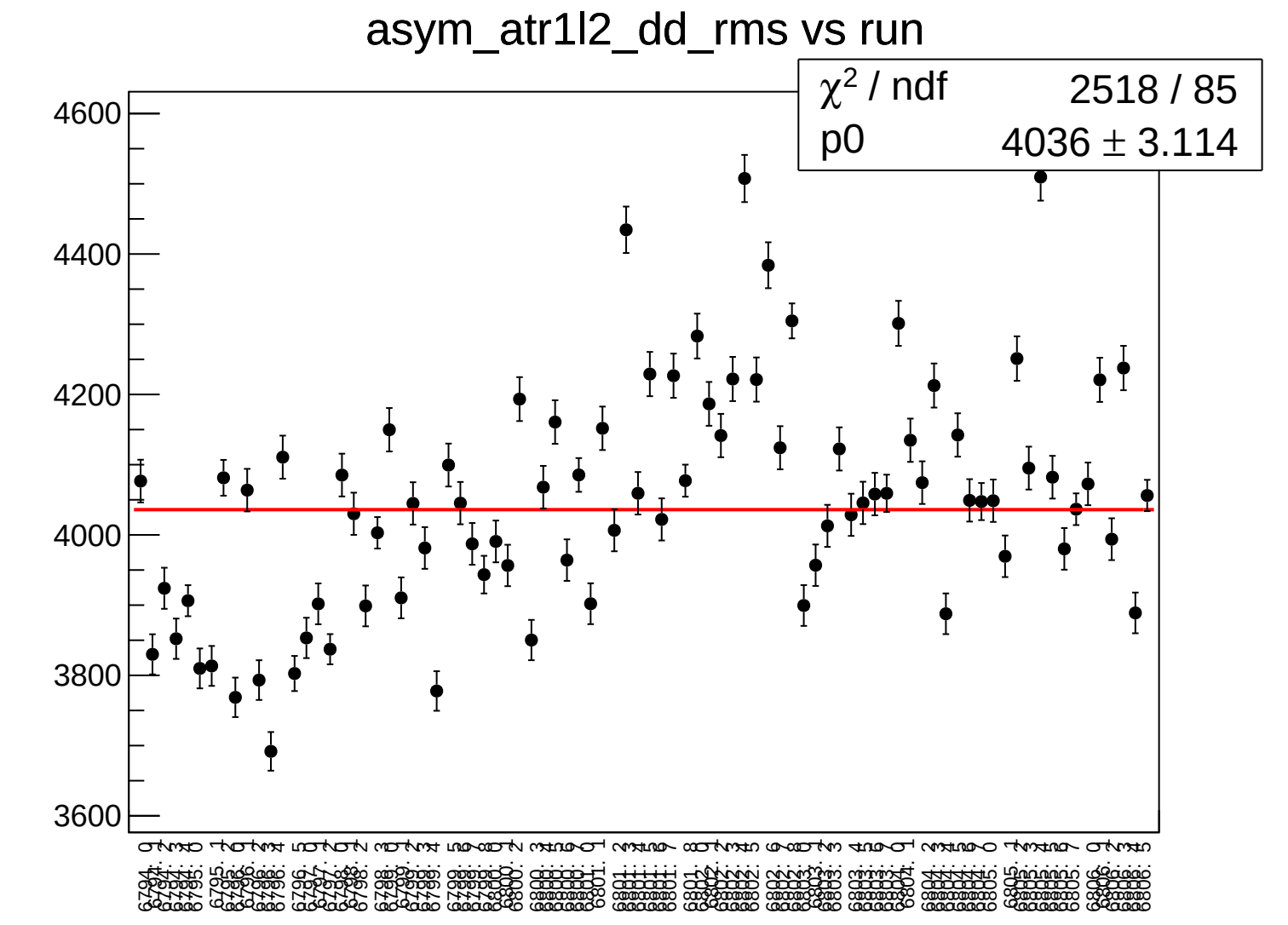

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.81 / 85
p0 3195 ± 4165
150
100
50
0
−50
−100
pull
Entries 86
Mean −87.46
Std Dev 0
3
2
1
0
−1
−2
−3

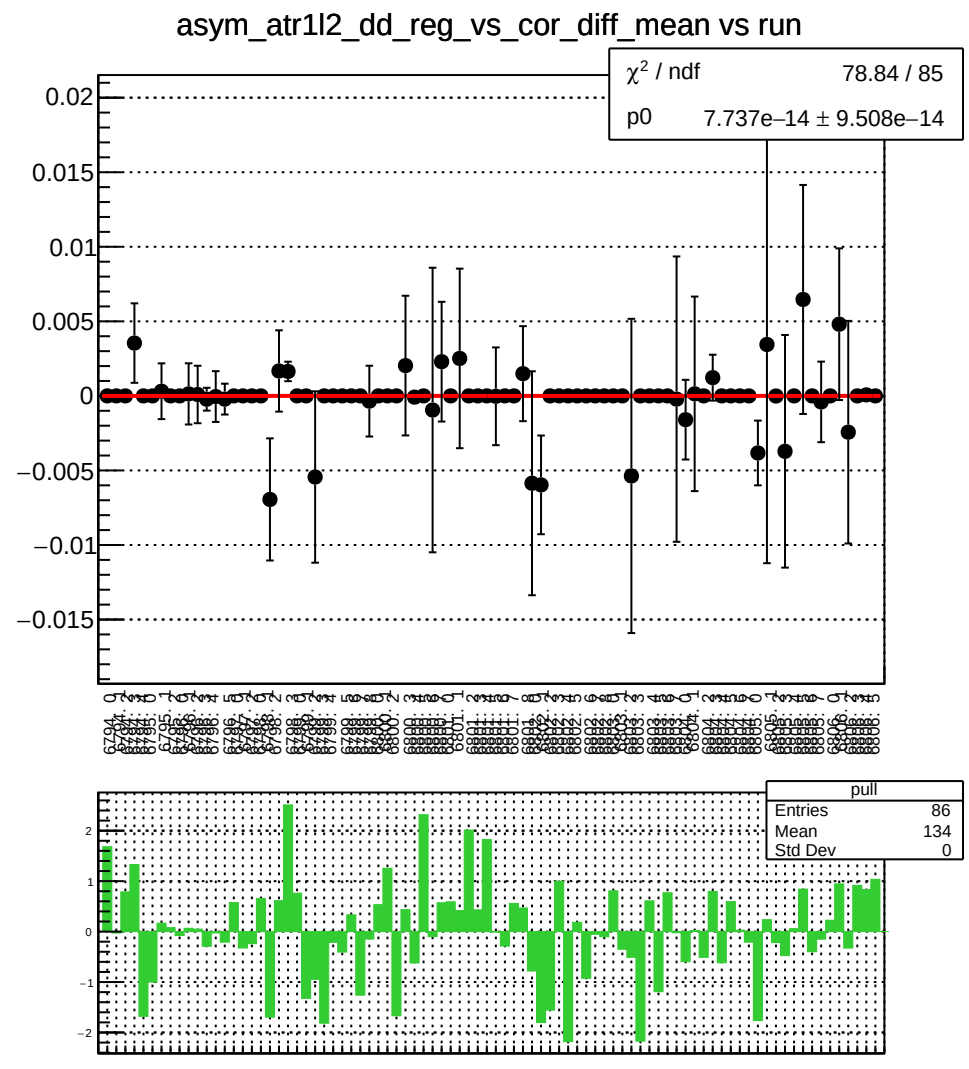

pull1D
Entries 86
Mean 0.02635
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

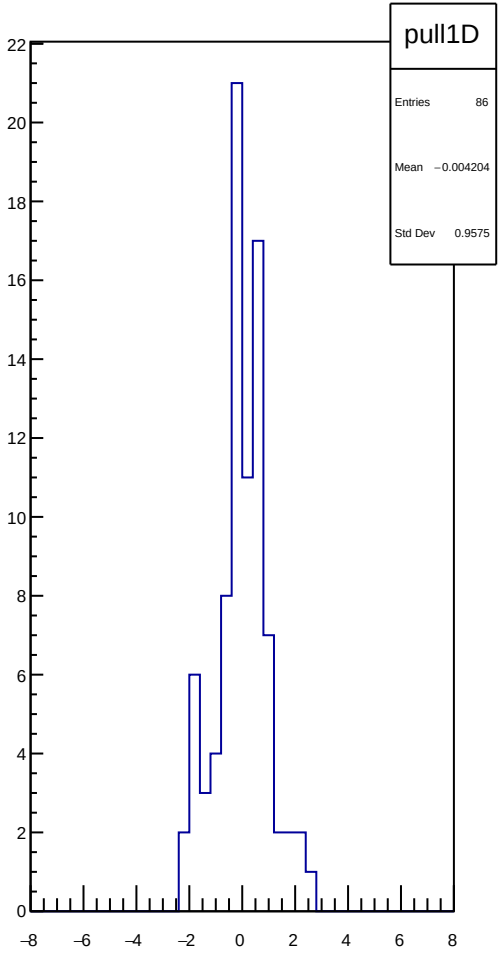

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4022 / 85
p0 3816 ± 2.945
4400
4200
4000
3800
3600
3400

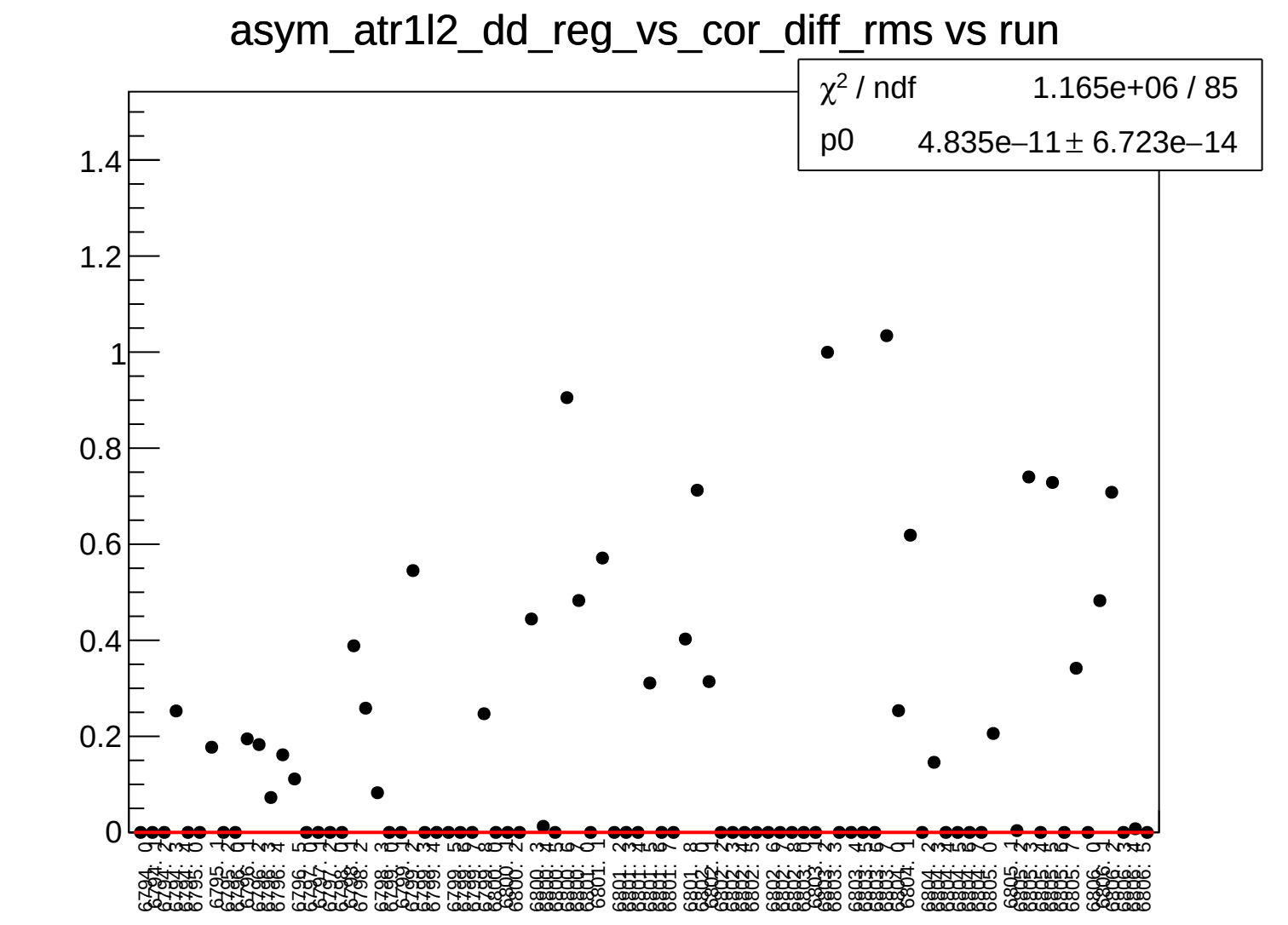

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 86.86 / 85
p0 −1783 ± 4404
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −83.53
Std Dev 0
2
1
0
−1
−2

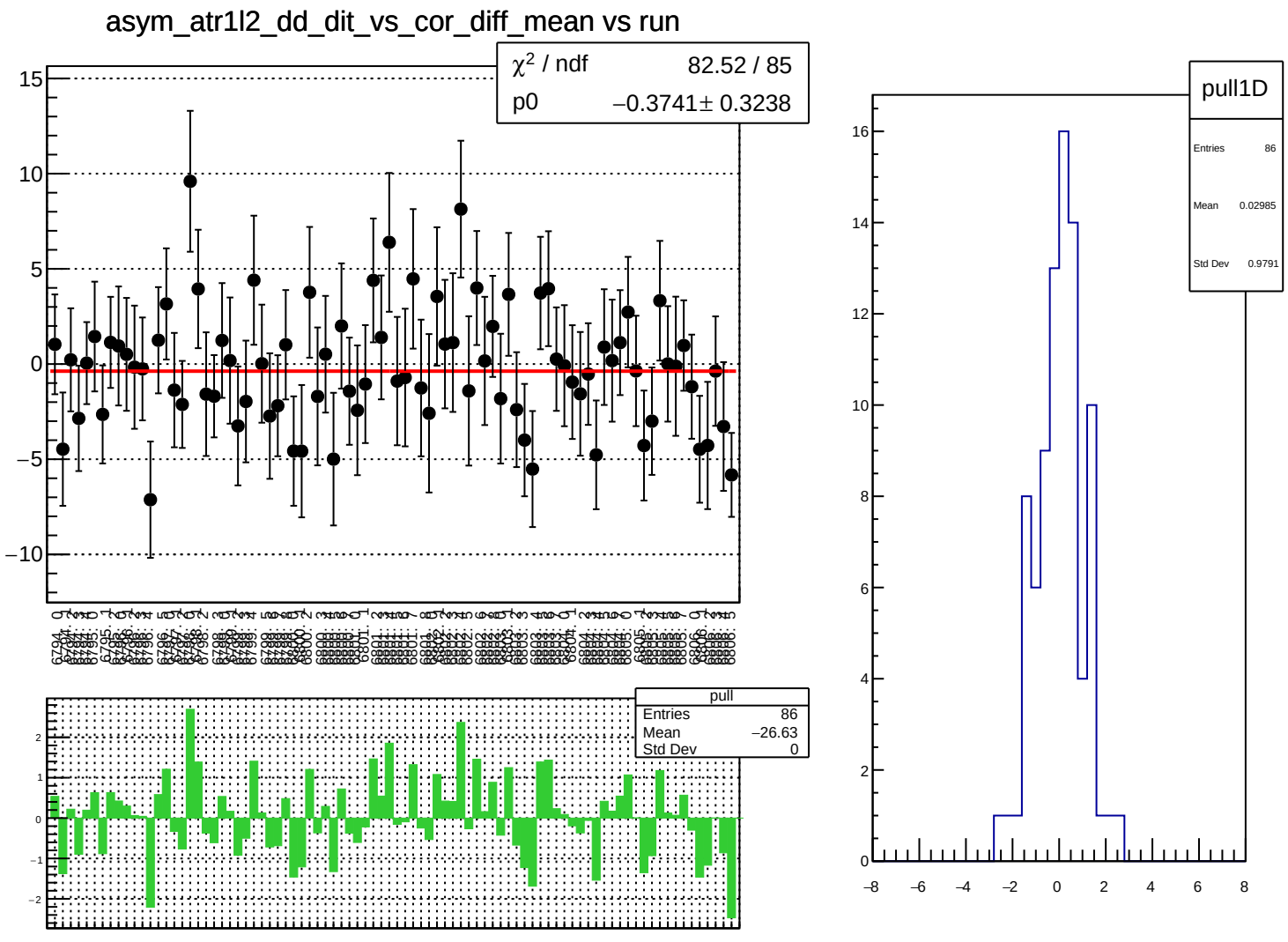

pull1D
Entries 86
Mean −0.02514
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

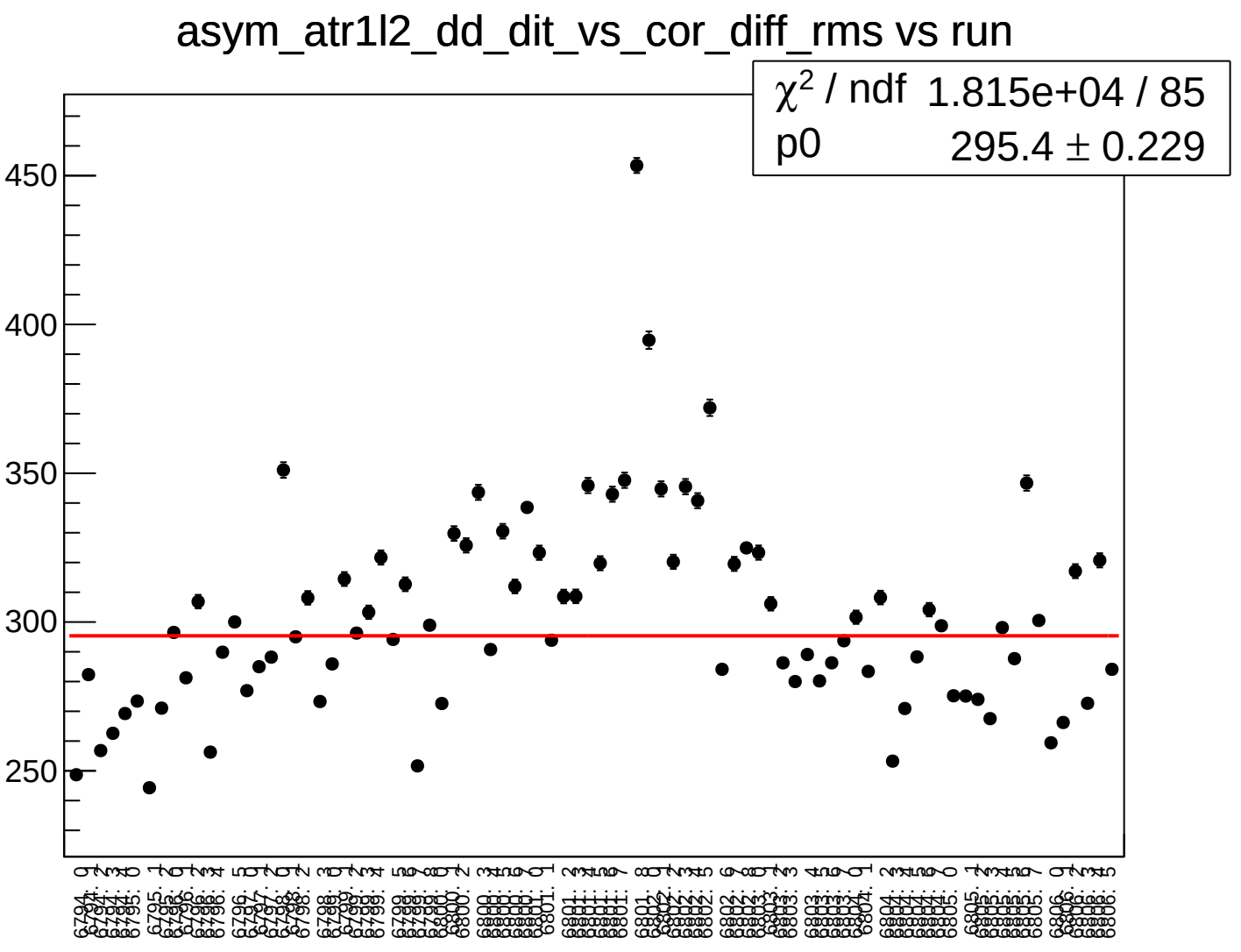

asym_atr1l2_dd_rms vs run
χ² / ndf 2518 / 85
p0 4036 ± 3.114
4600
4400
4200
4000
3800
3600

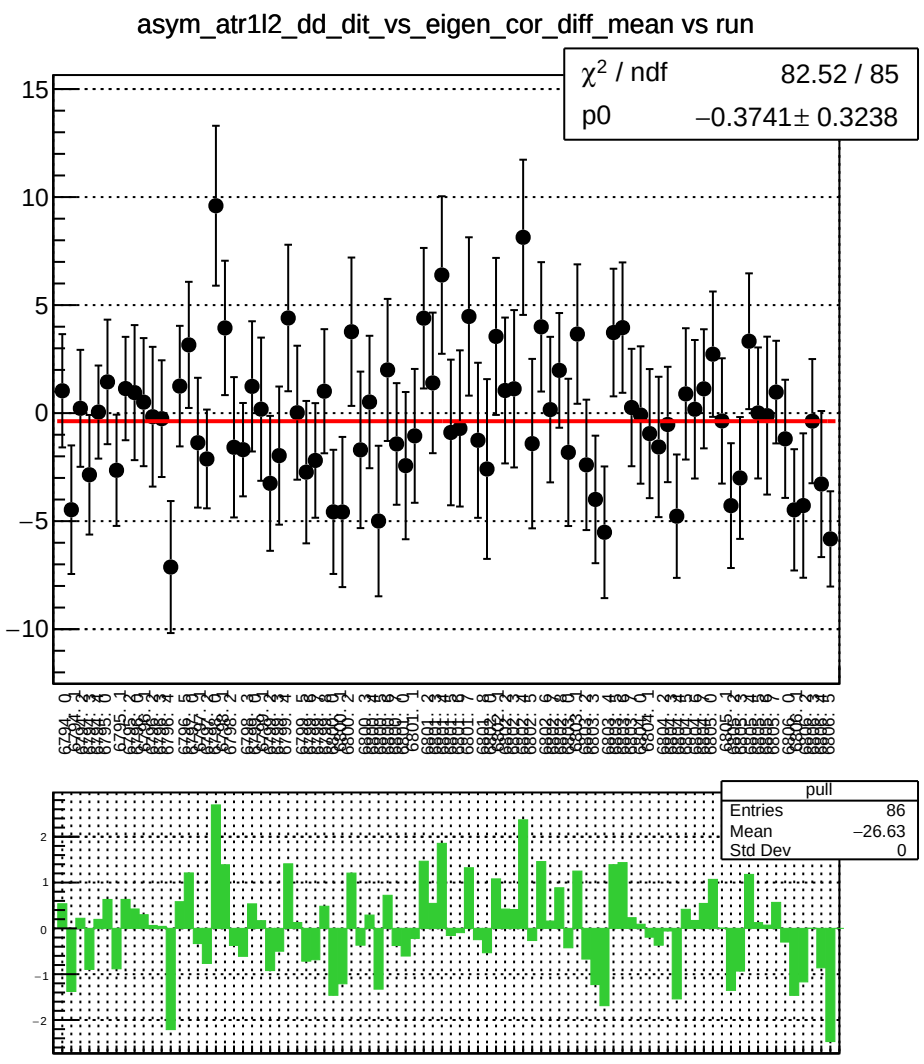

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.84 / 85
p0 7.737e−14 ± 9.508e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 134
Std Dev 0
2
1
0
−1
−2

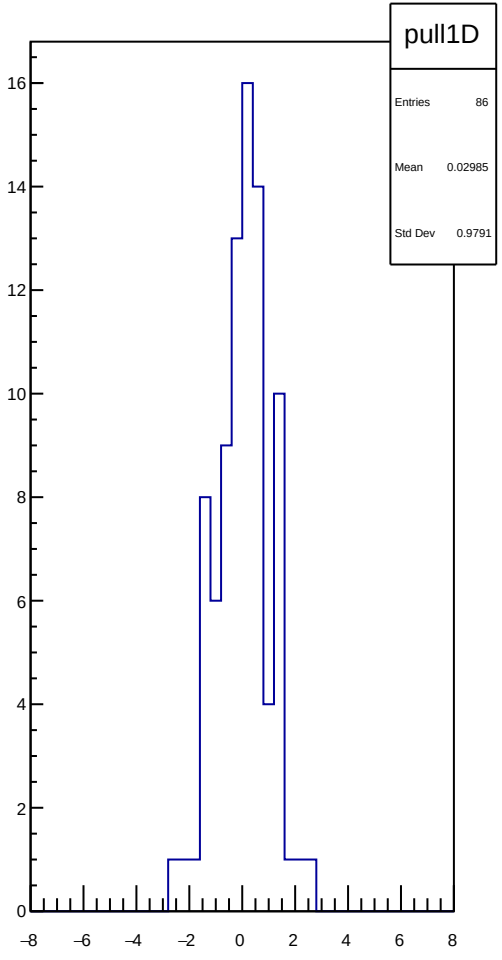

pull1D
Entries 86
Mean −0.004204
Std Dev 0.9575
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

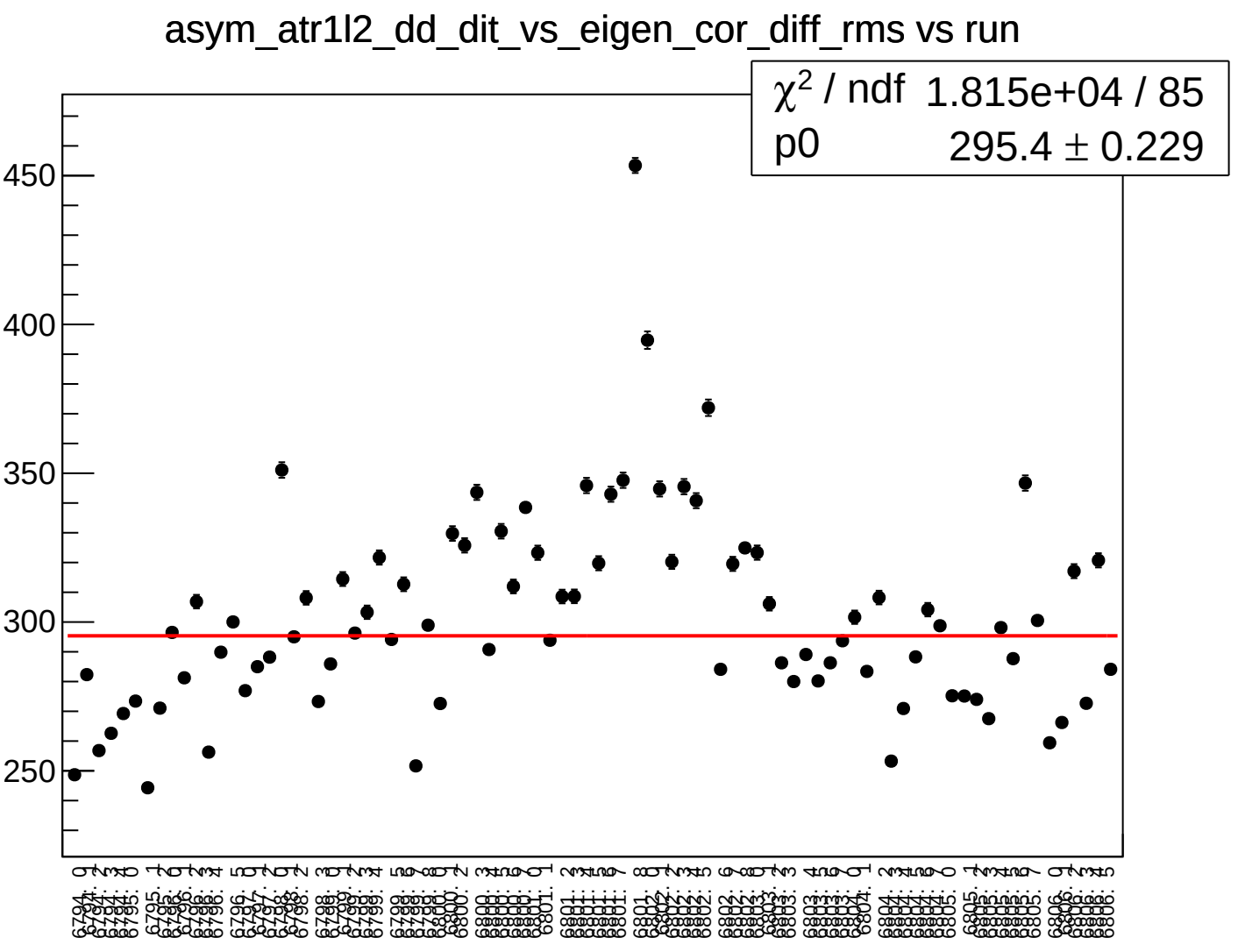

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 85
p0 4.835e−11 ± 6.723e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

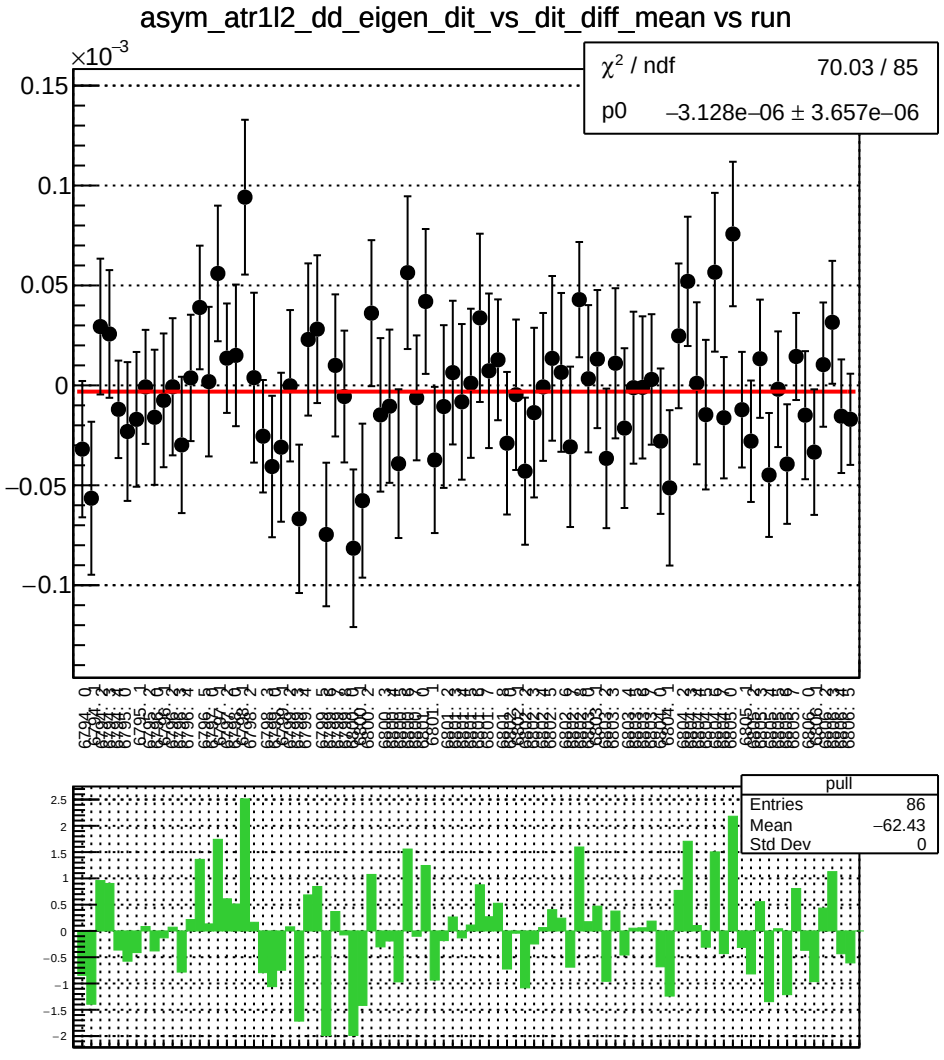

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 85
p0 −0.3741± 0.3238
pull
Entries 86
Mean −26.63
Std Dev 0
pull1D
Entries 86
Mean 0.02985
Std Dev 0.9791

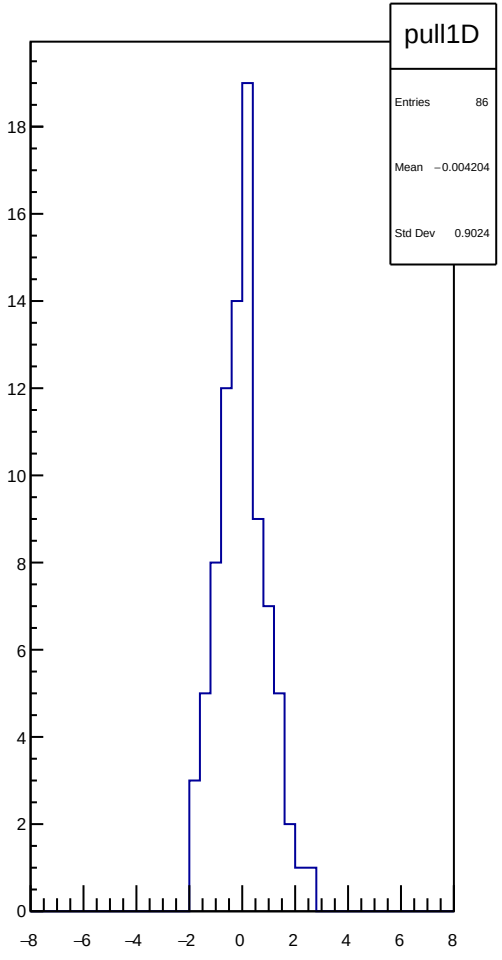

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.815e+04 / 85
p0 295.4 ± 0.229
450
400
350
300
250

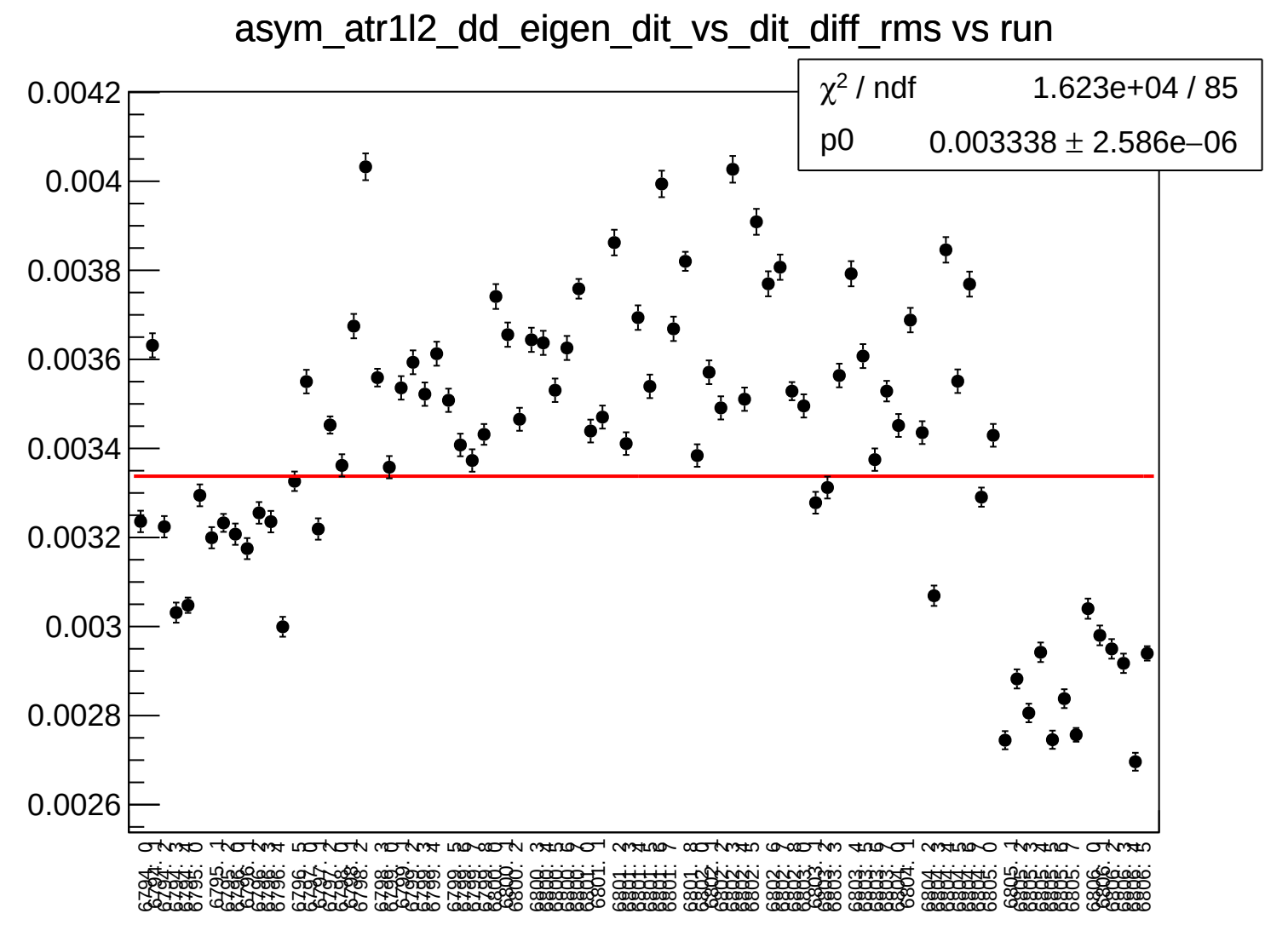

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 85
p0 −0.3741± 0.3238
pull
Entries 86
Mean −26.63
Std Dev 0

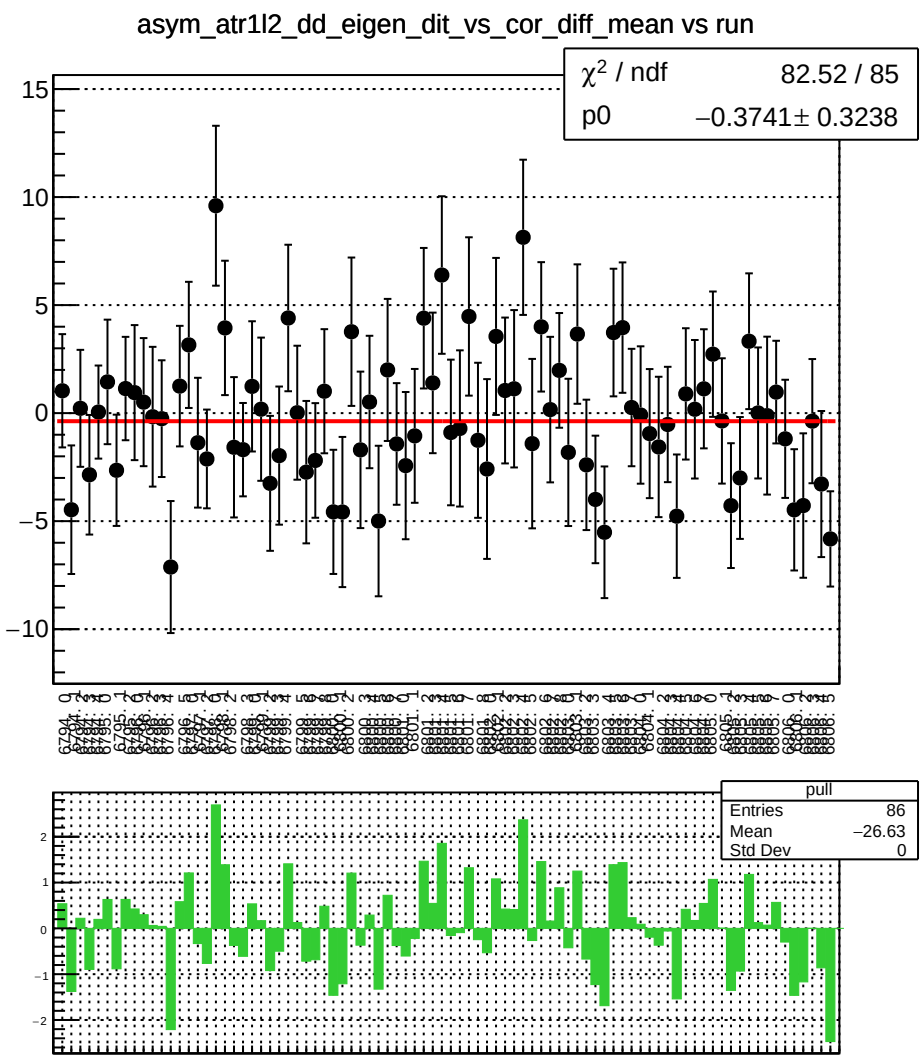

pull1D
Entries 86
Mean 0.02985
Std Dev 0.9791

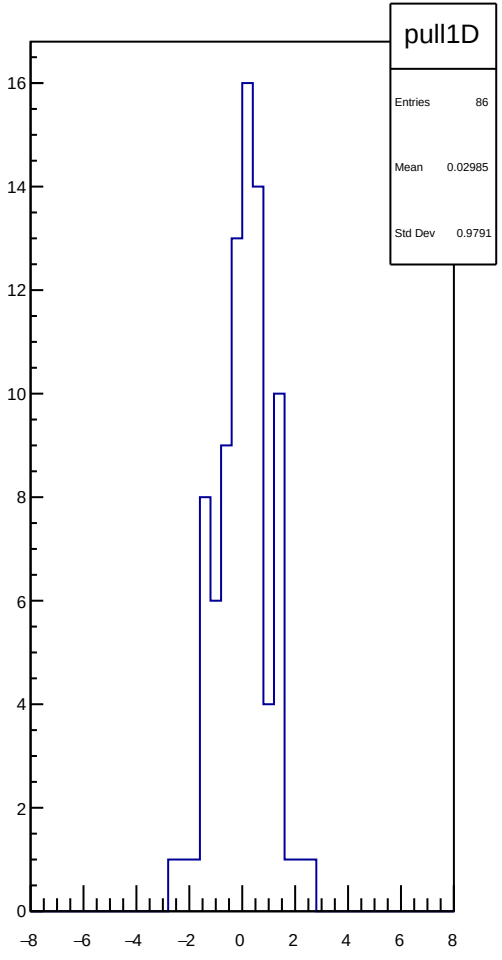

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.815e+04 / 85
p0 295.4 ± 0.229
450
400
350
300
250

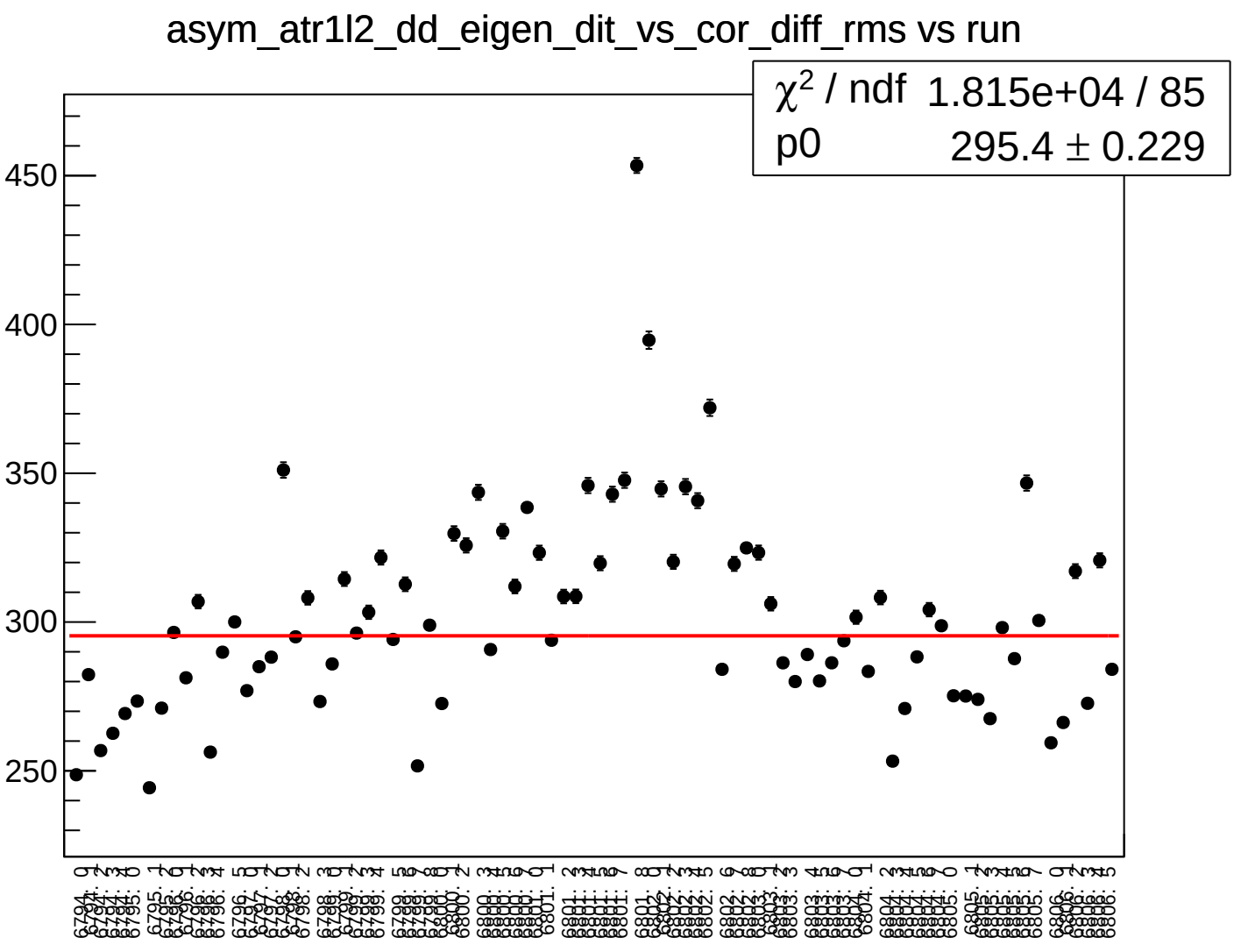

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.03 / 85
p0 −3.128e−06 ± 3.657e−06
pull
Entries 86
Mean −62.43
Std Dev 0

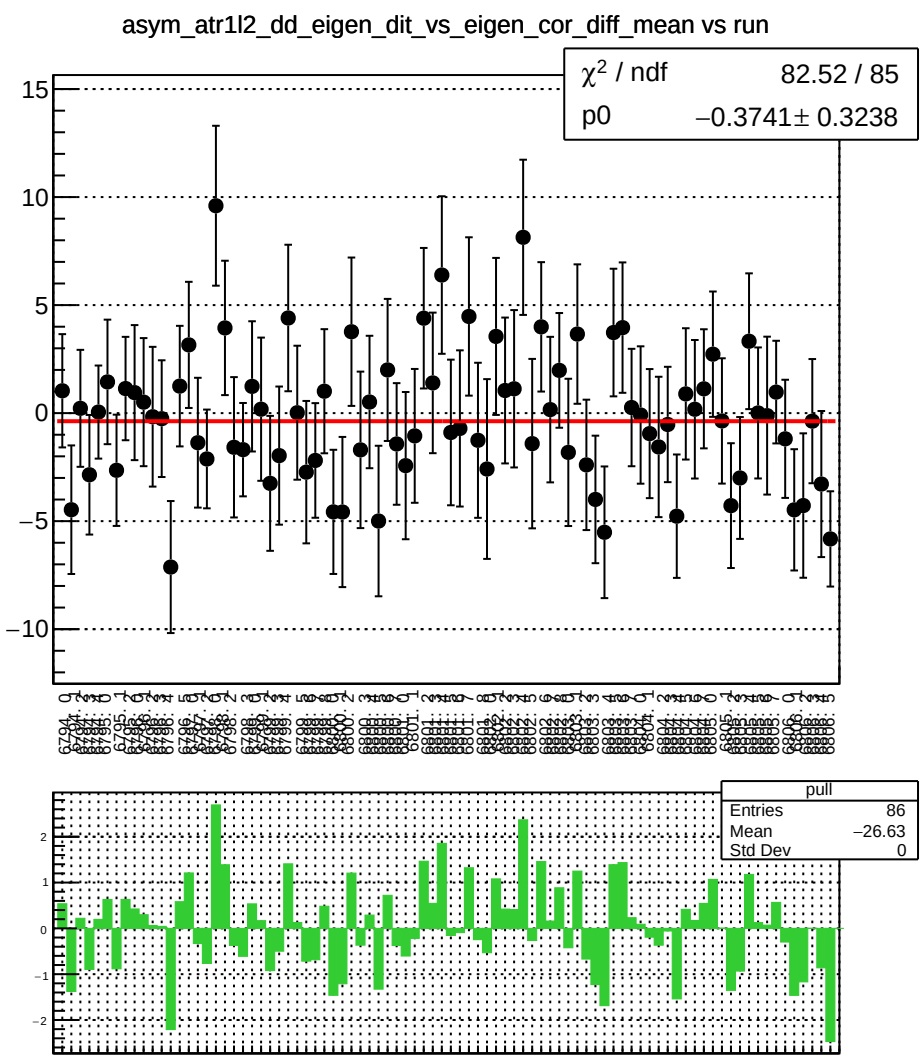

pull1D
Entries 86
Mean −0.004204
Std Dev 0.9024

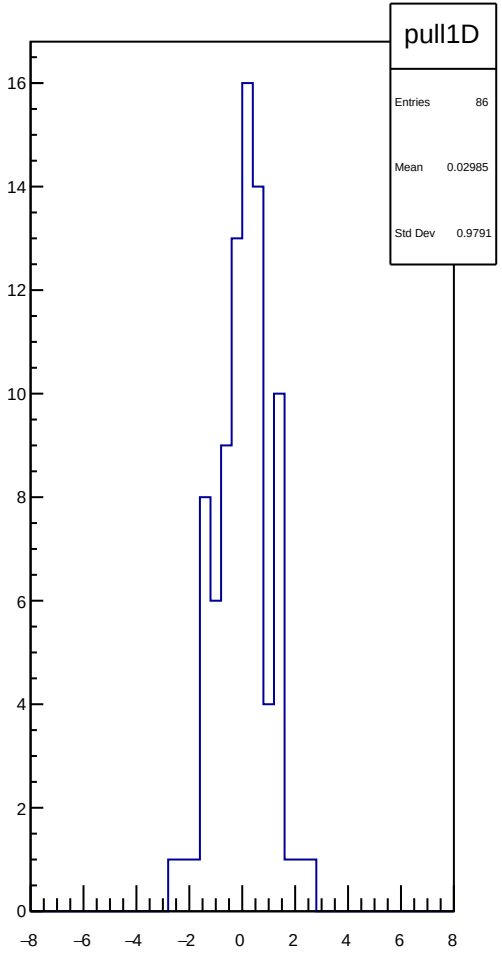

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.623e+04 / 85
p0 0.003338 ± 2.586e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

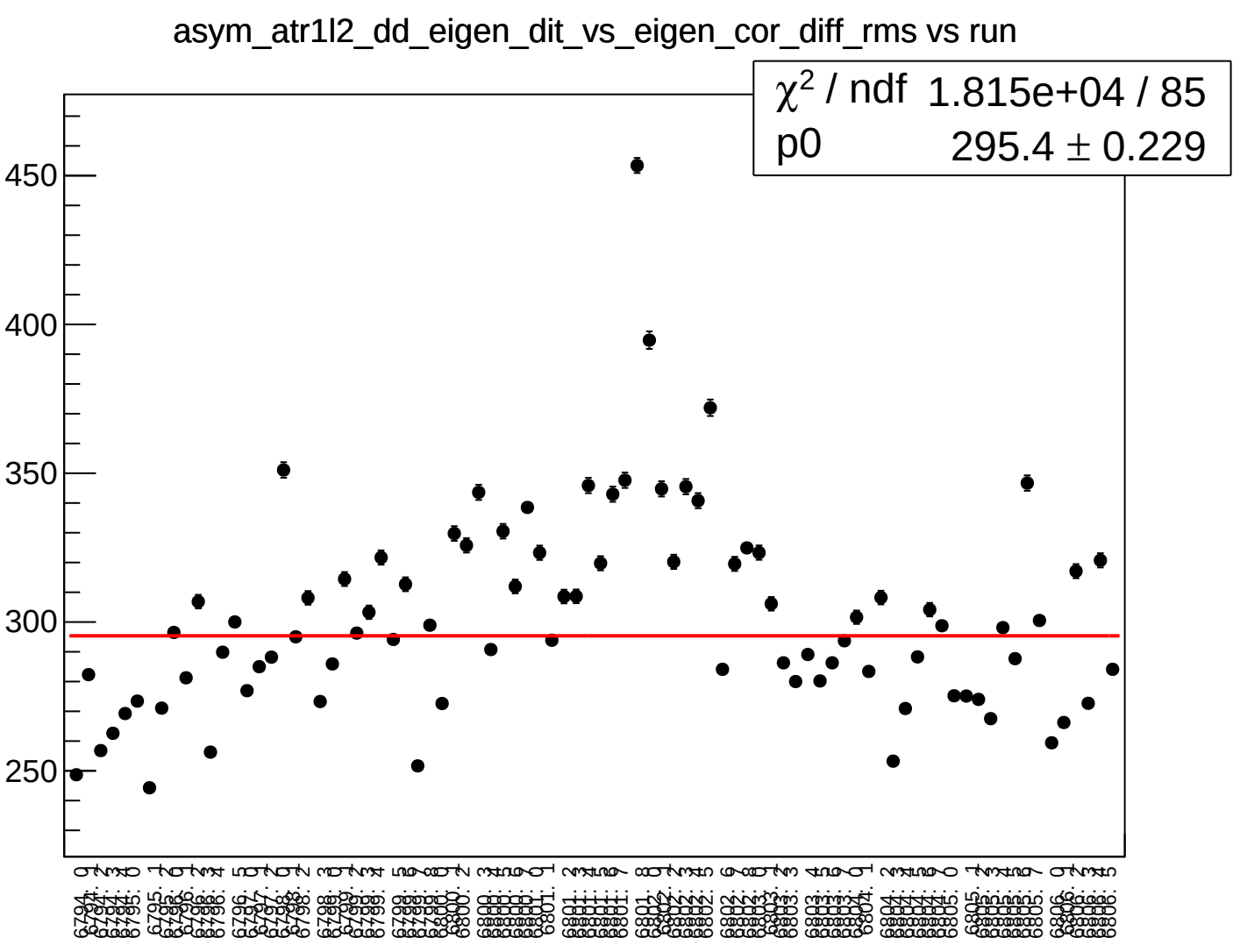

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.52 / 85
p0 −0.3741± 0.3238
pull
Entries 86
Mean −26.63
Std Dev 0

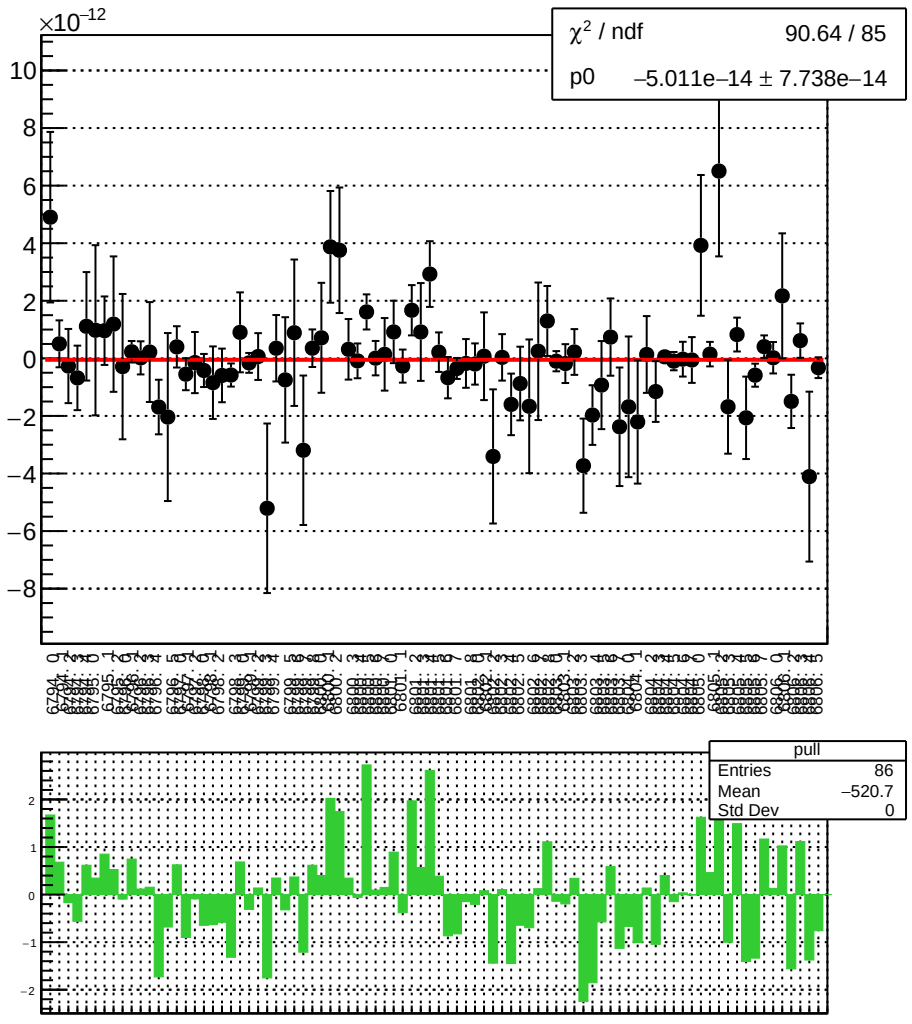

pull1D
Entries 86
Mean 0.02985
Std Dev 0.9791

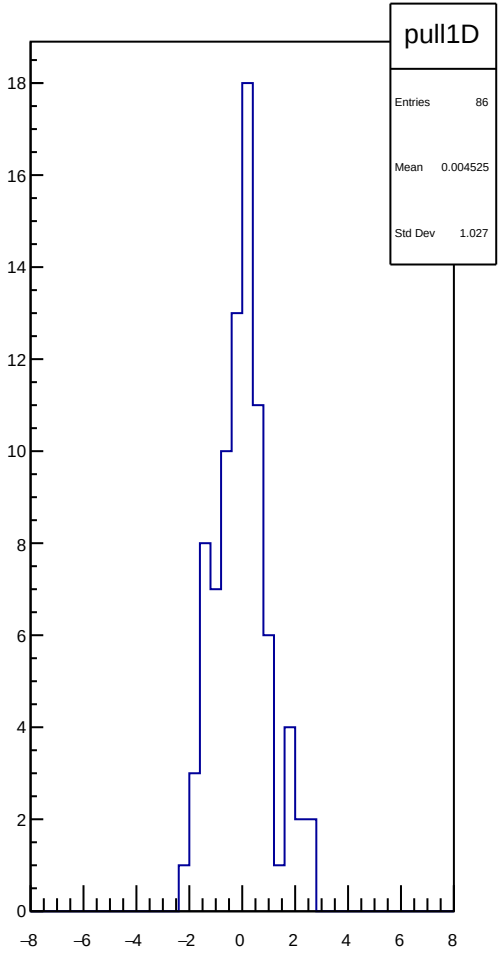

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.815e+04 / 85
p0 295.4 ± 0.229
450
400
350
300
250

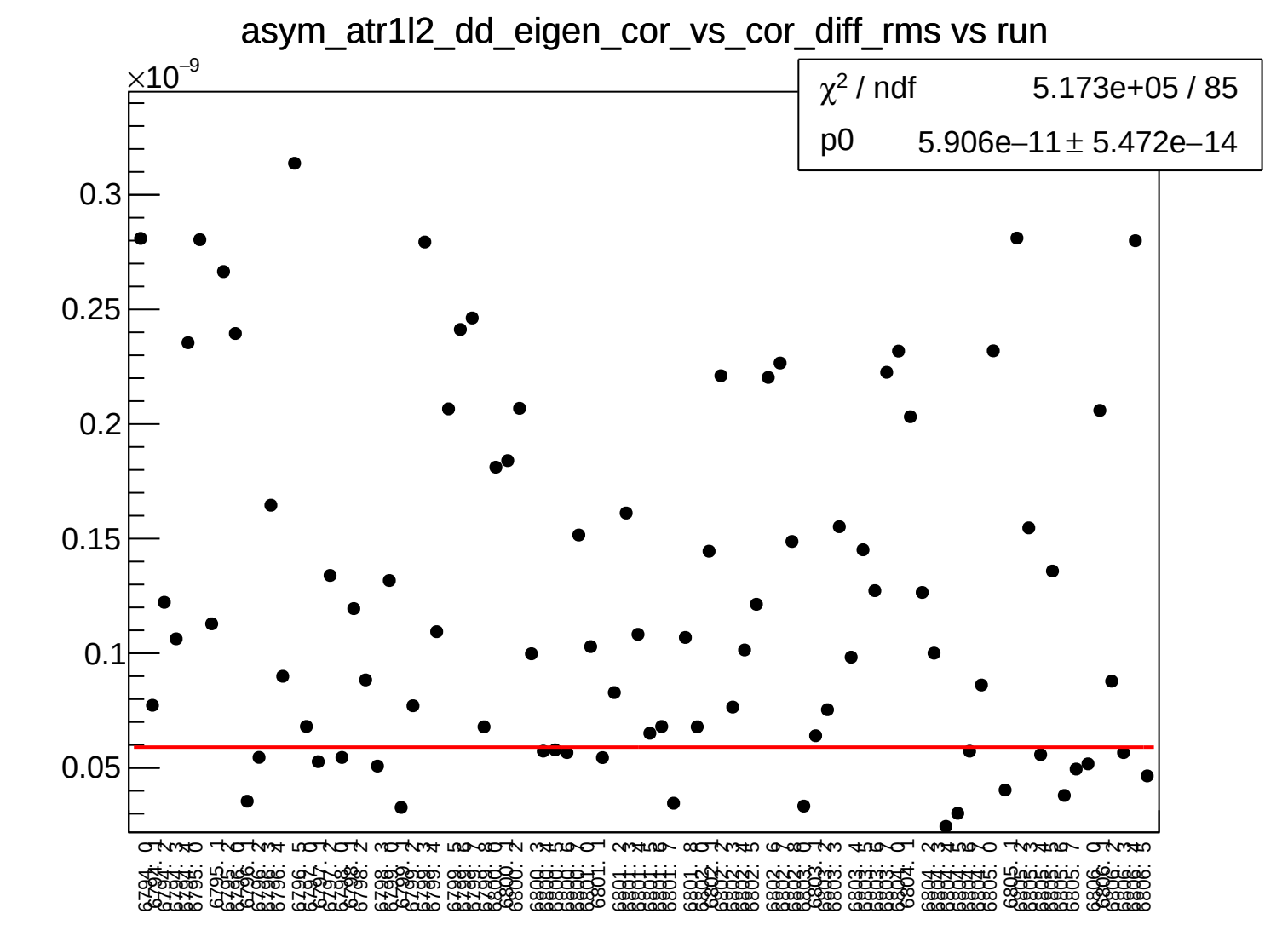

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.52 / 85
p0 −0.3741± 0.3238
pull
Entries 86
Mean −26.63
Std Dev 0

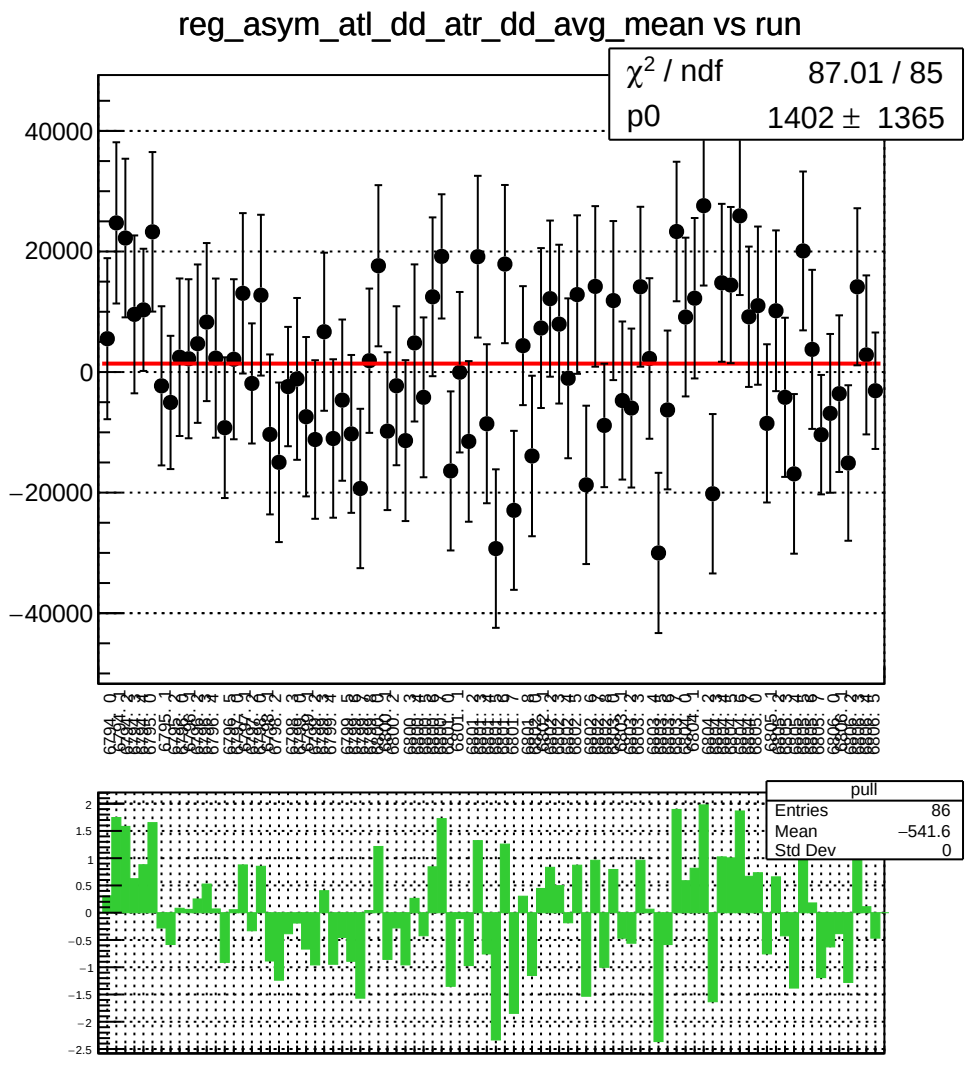

pull1D
Entries 86
Mean 0.02985
Std Dev 0.9791

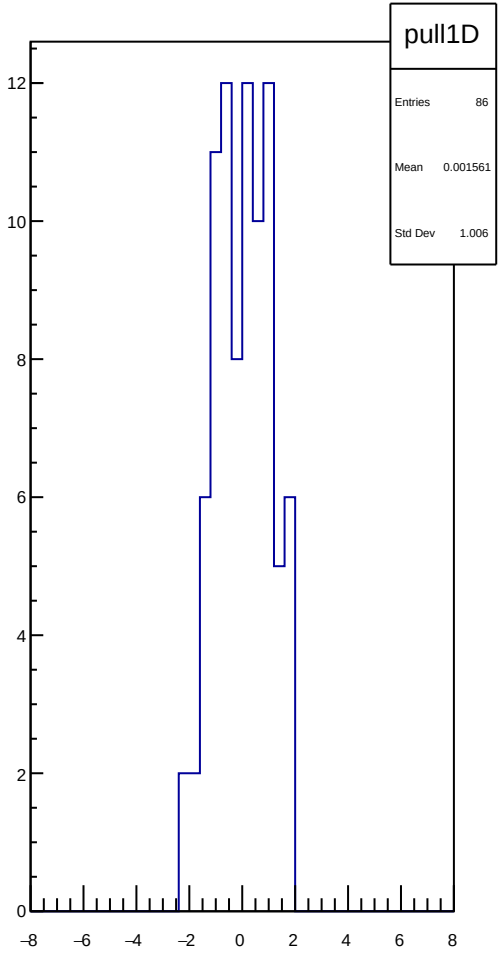

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.815e+04 / 85
p0 295.4 ± 0.229
450
400
350
300
250

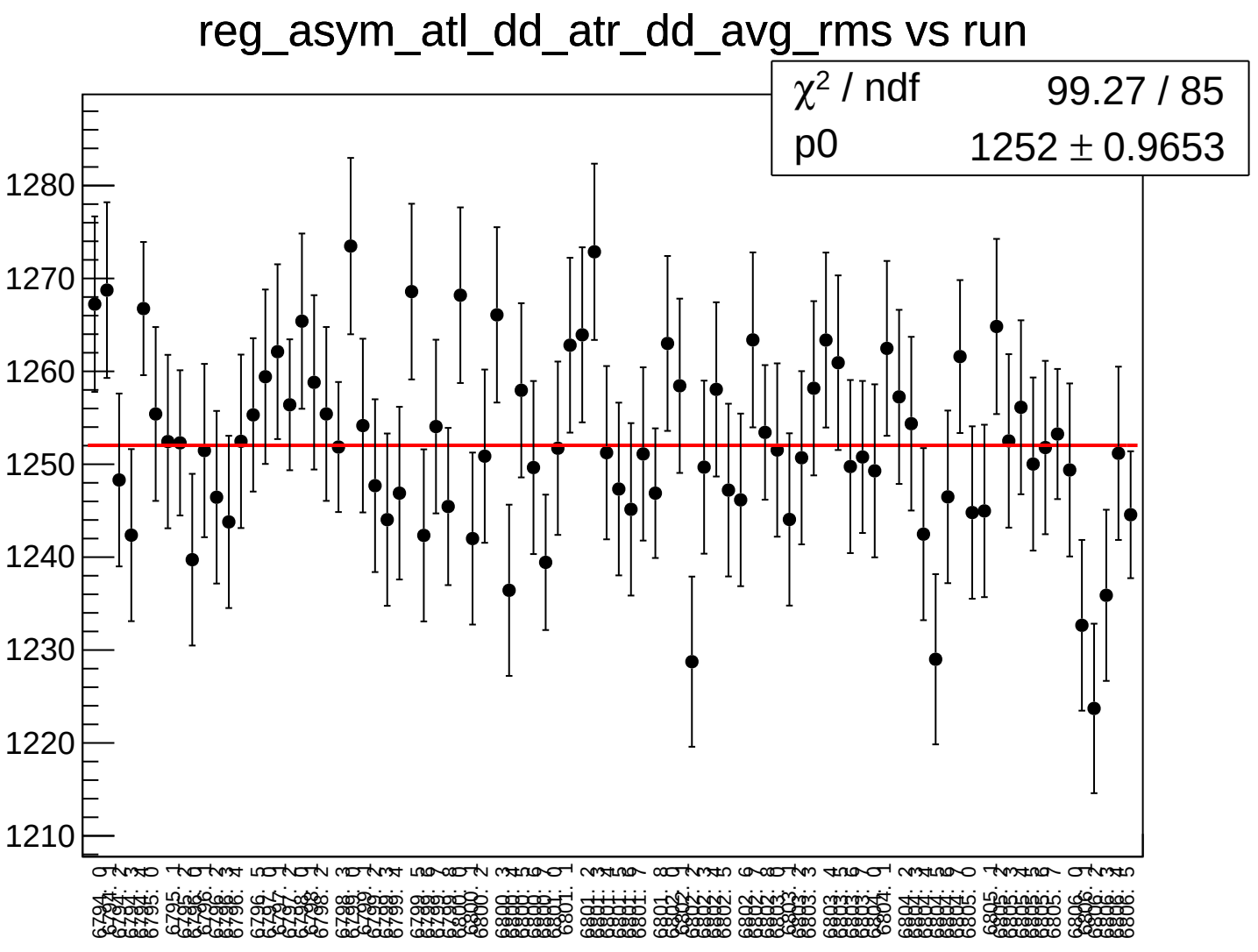

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.64 / 85
p0 −5.011e−14 ± 7.738e−14
pull
Entries 86
Mean −520.7
Std Dev 0

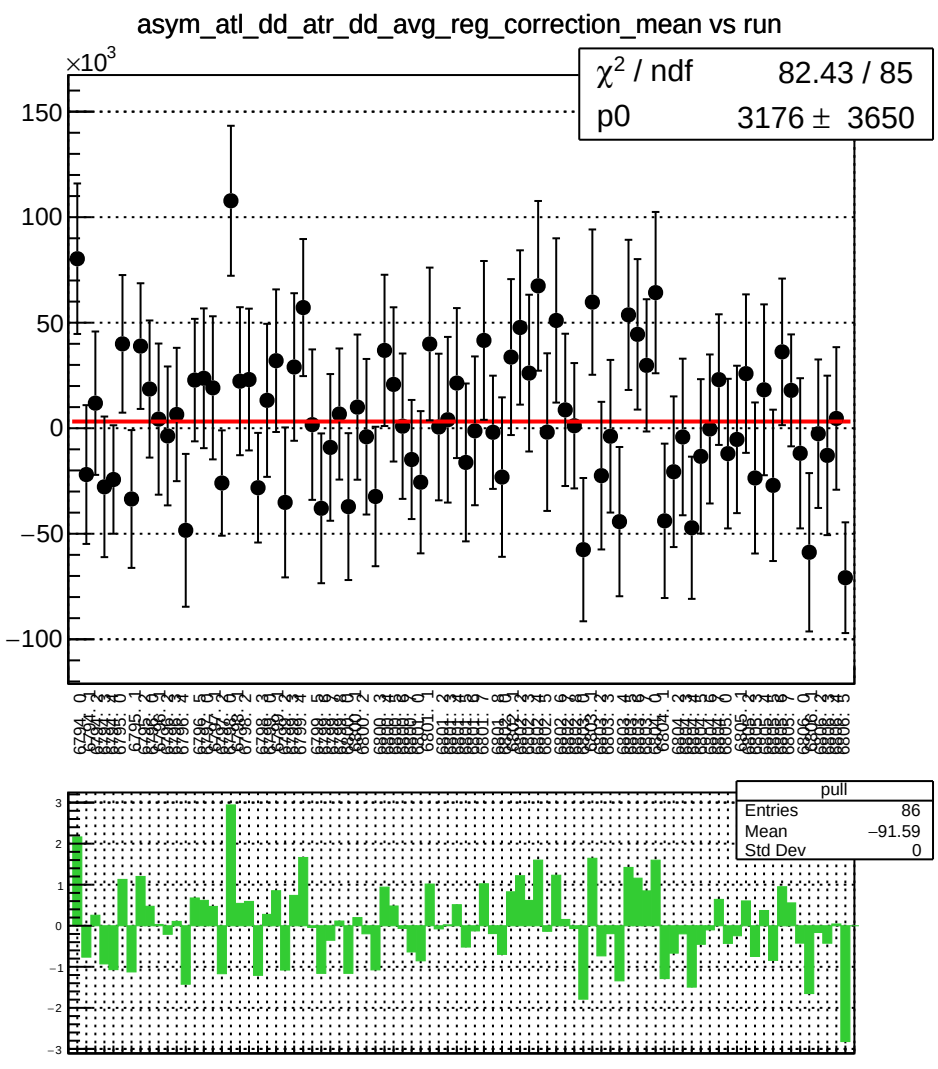

pull1D
Entries 86
Mean 0.004525
Std Dev 1.027

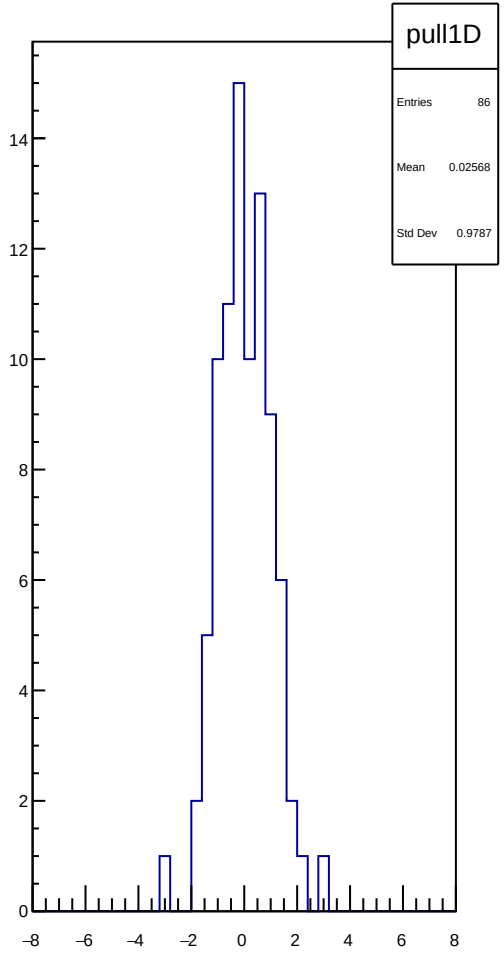

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.173e+05 / 85
p0 5.906e−11 ± 5.472e−14
0.3
0.25
0.2
0.15
0.1
0.05

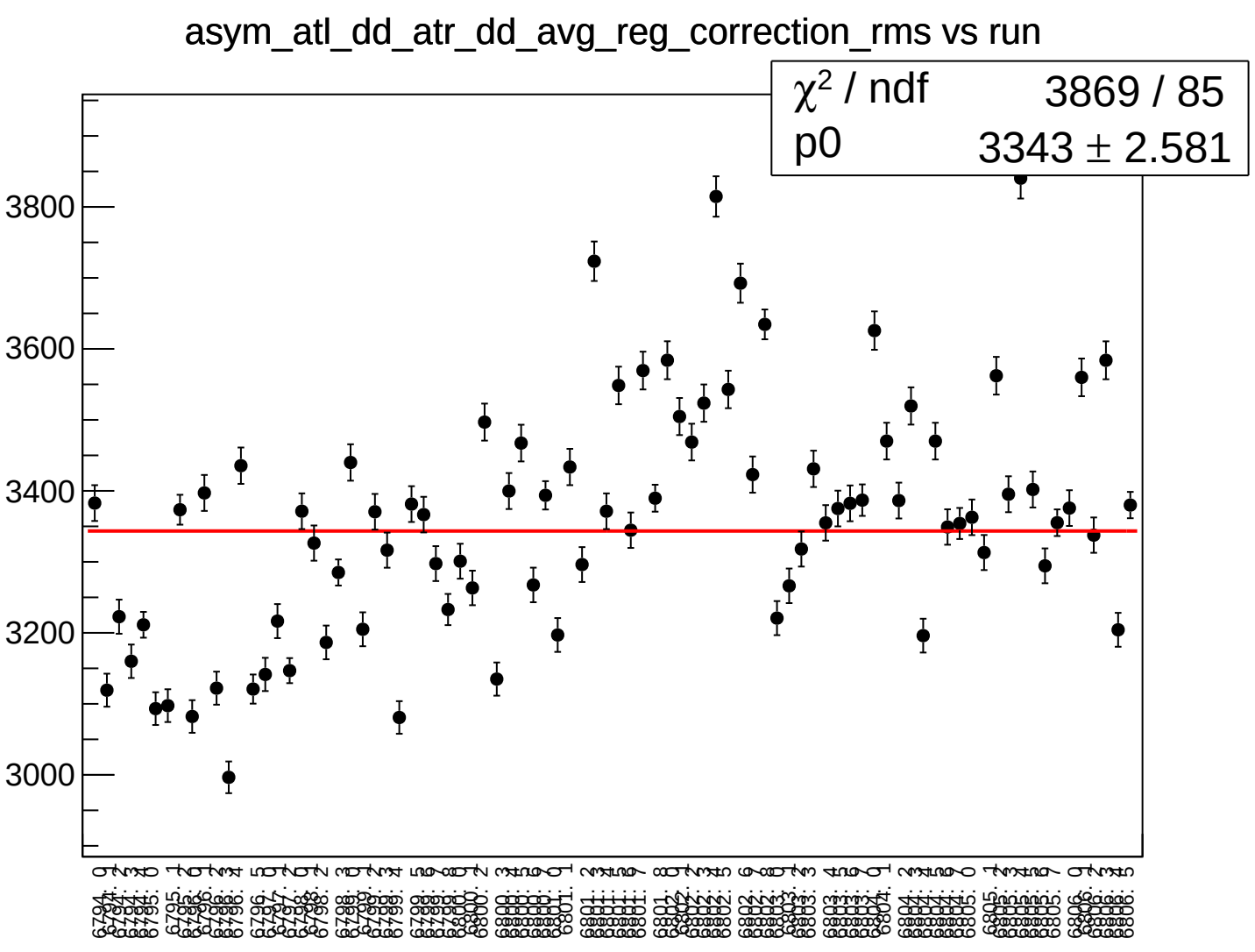

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

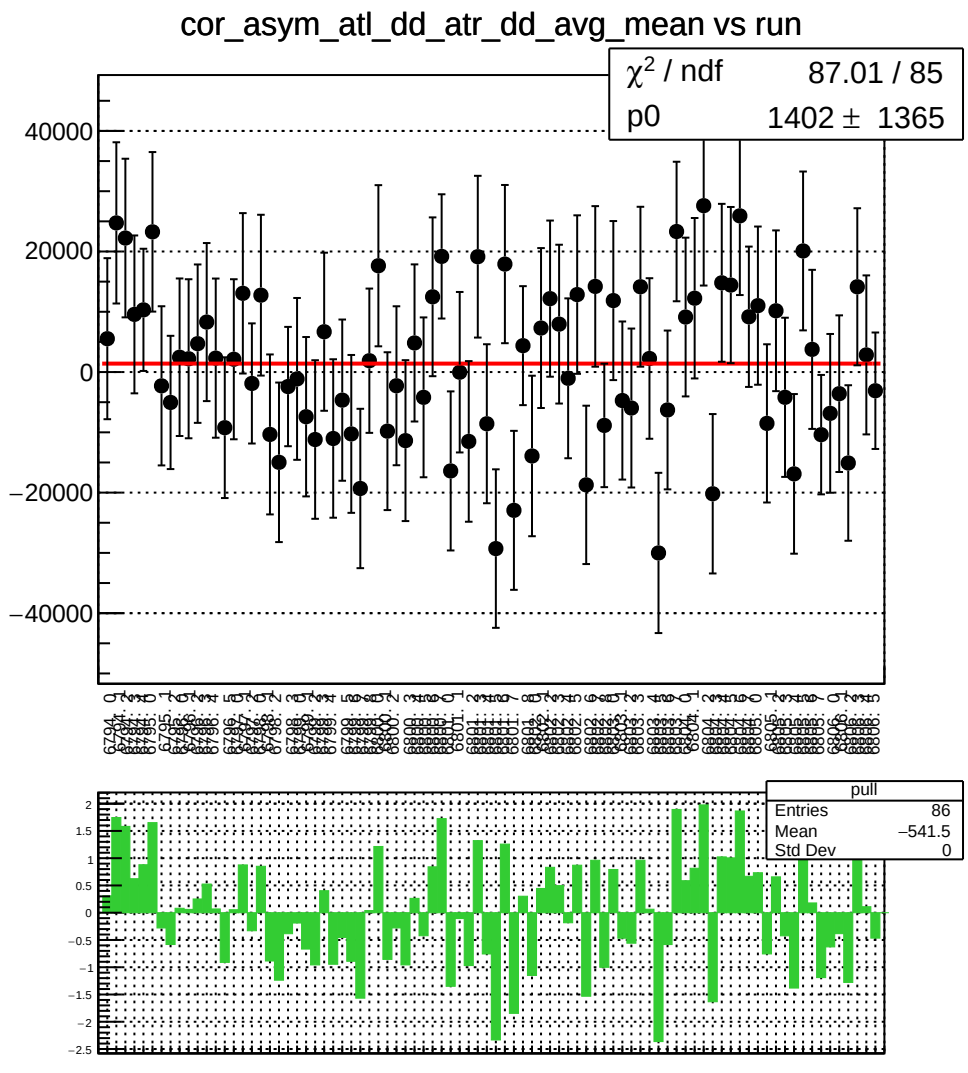

pull1D
Entries 86
Mean 0.001561
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

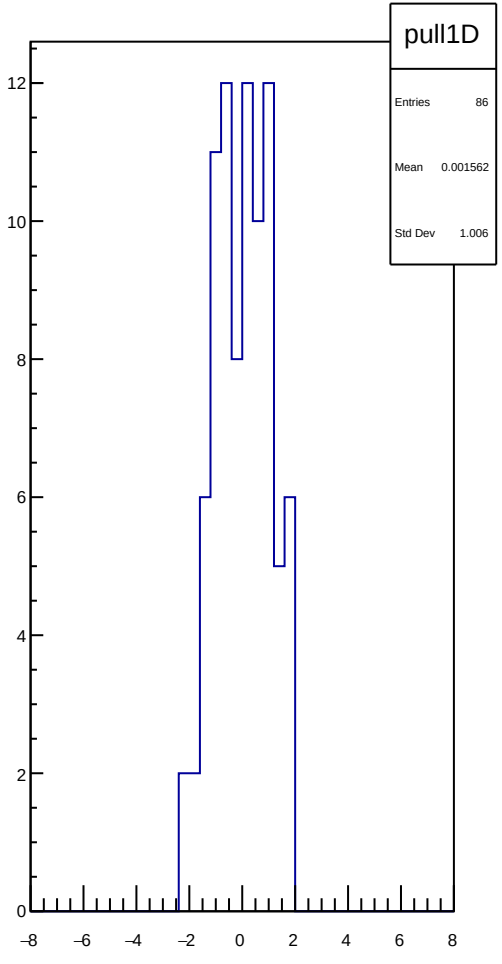

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

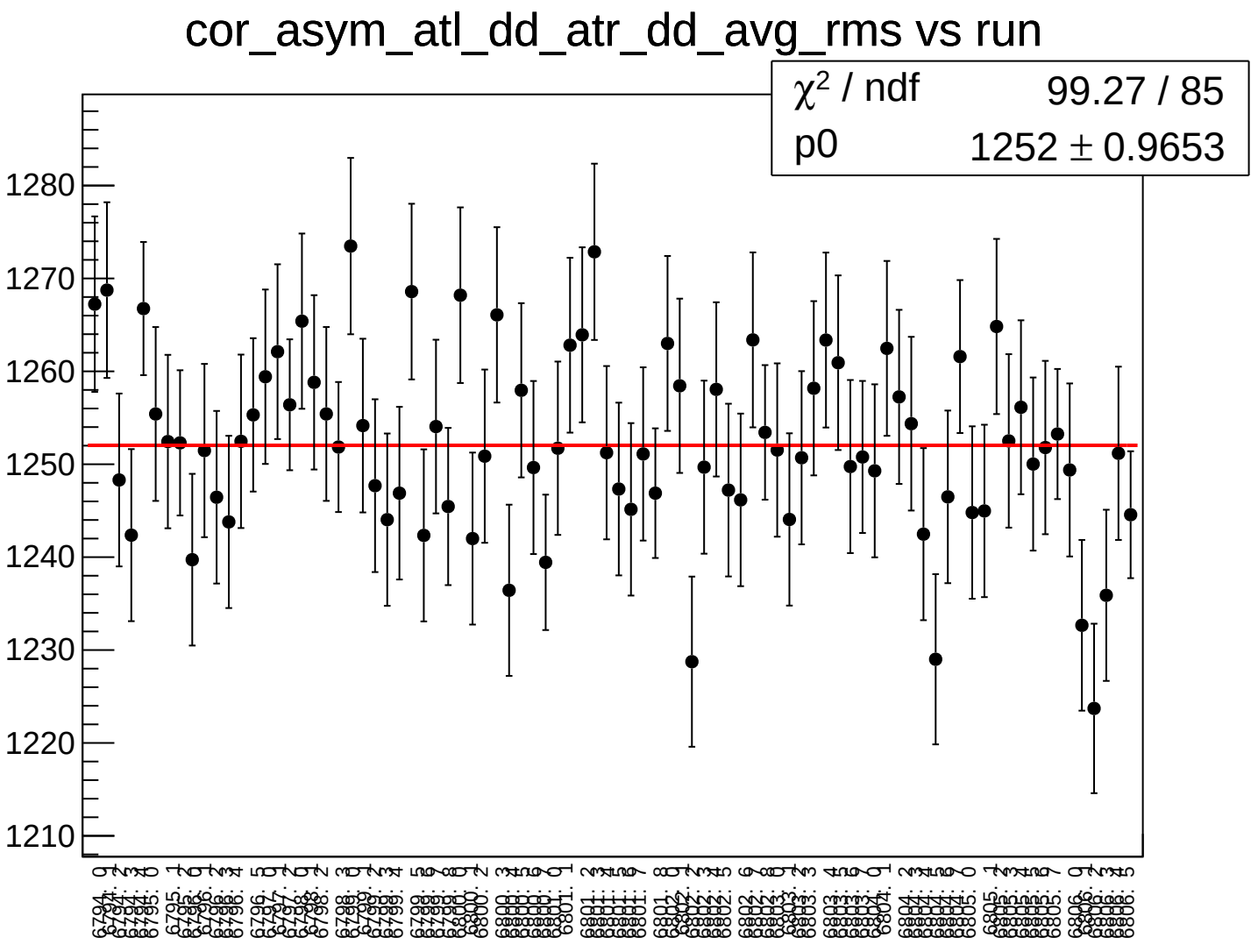

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.59
Std Dev 0
3
2
1
0
−1
−2
−3

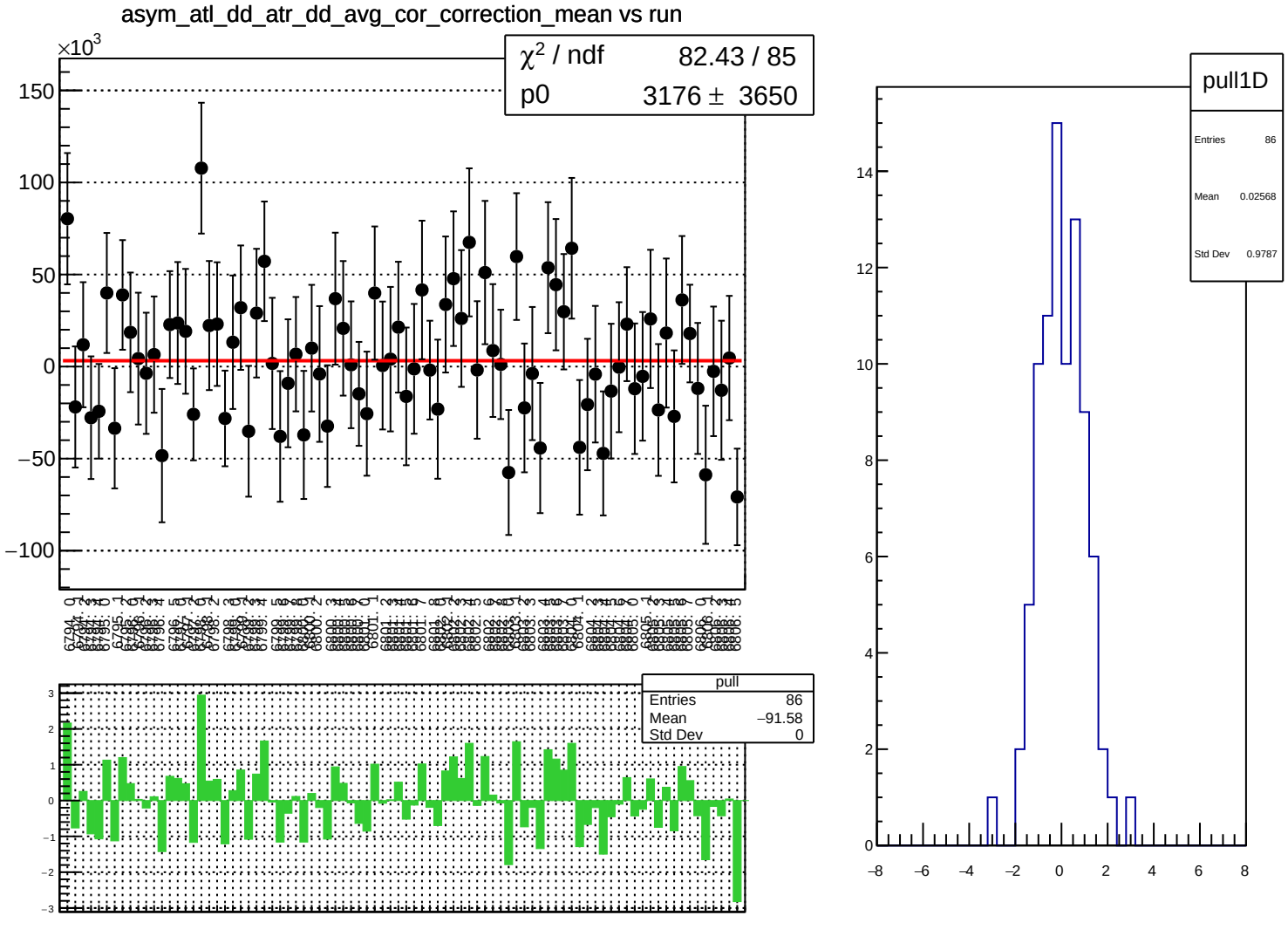

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

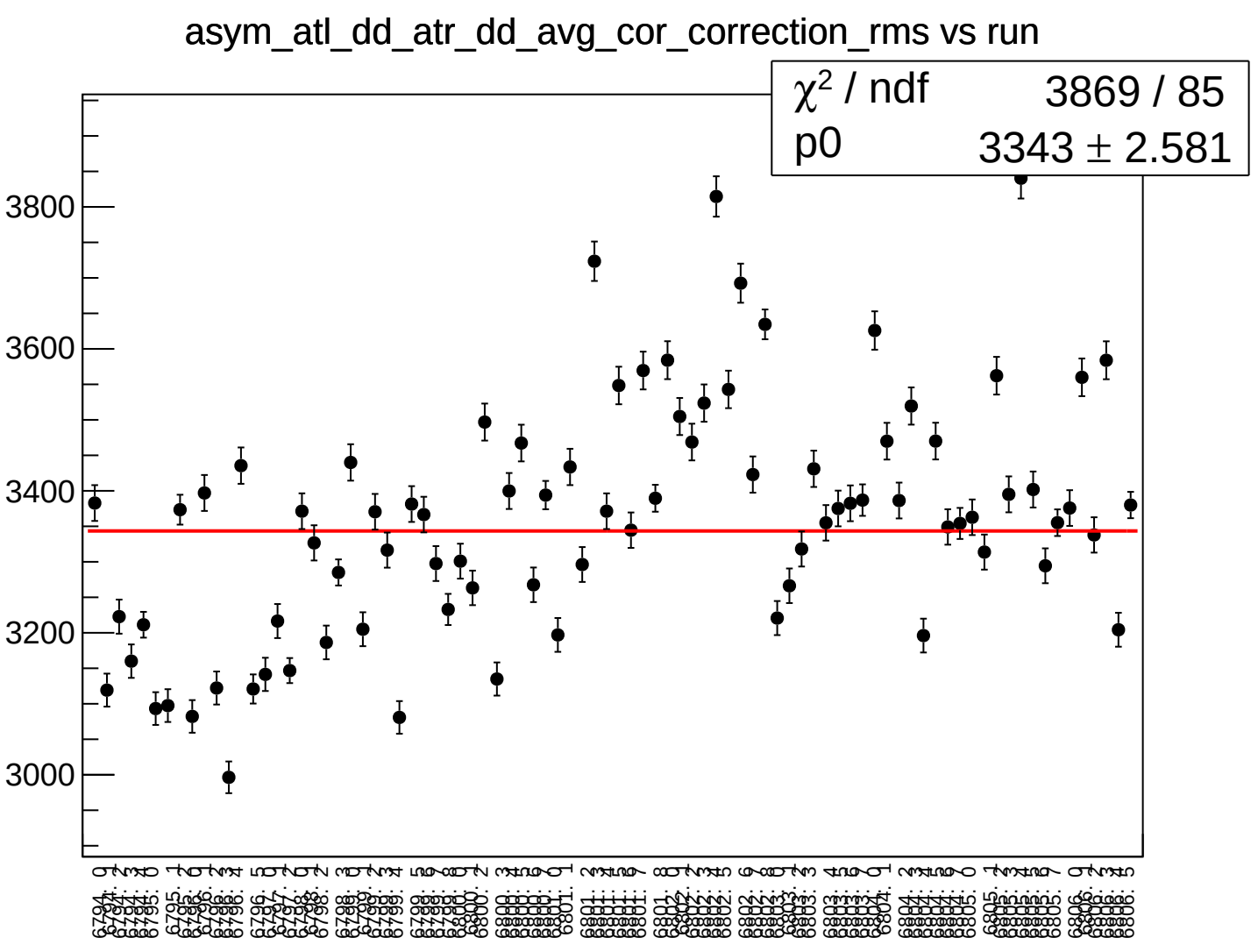

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

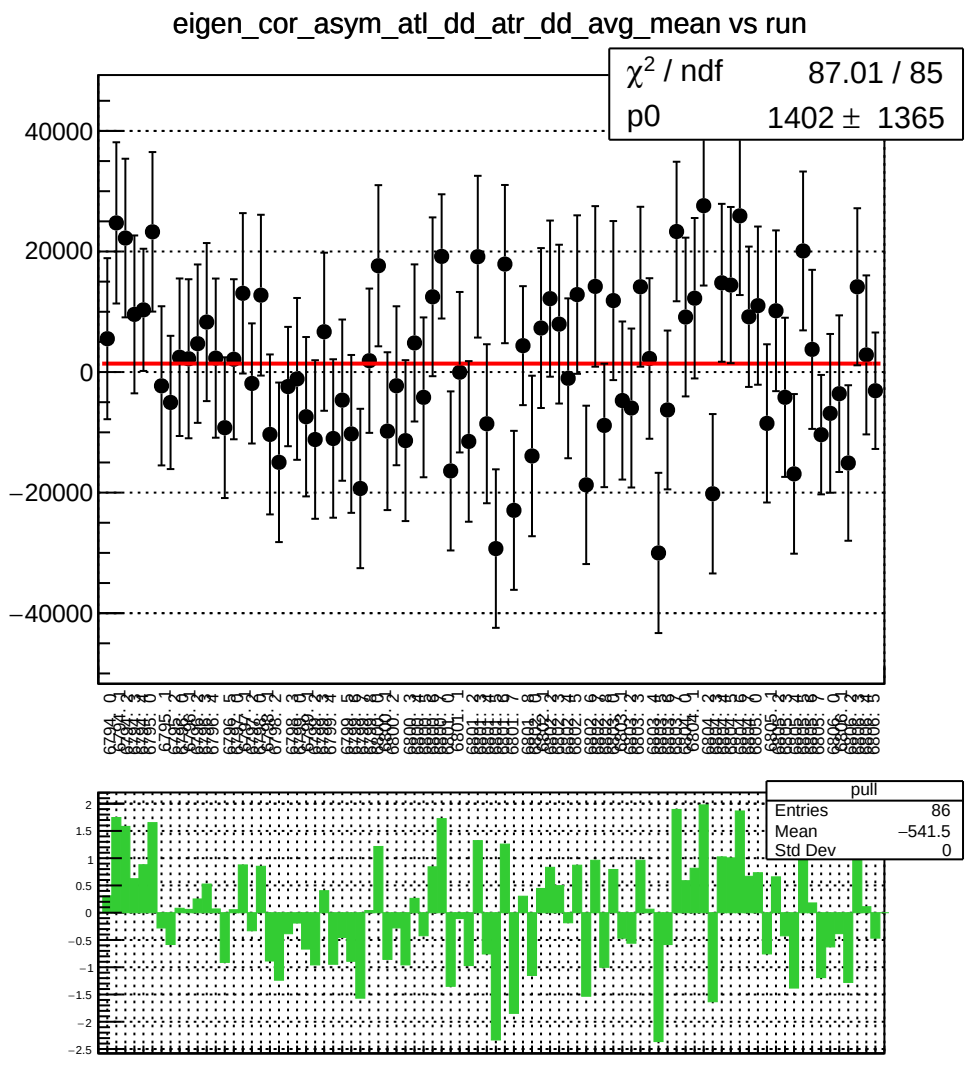

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

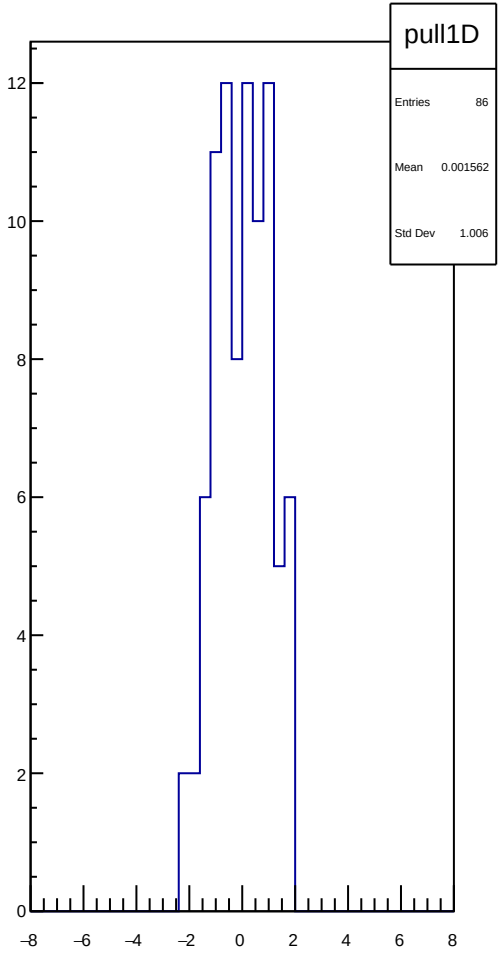

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

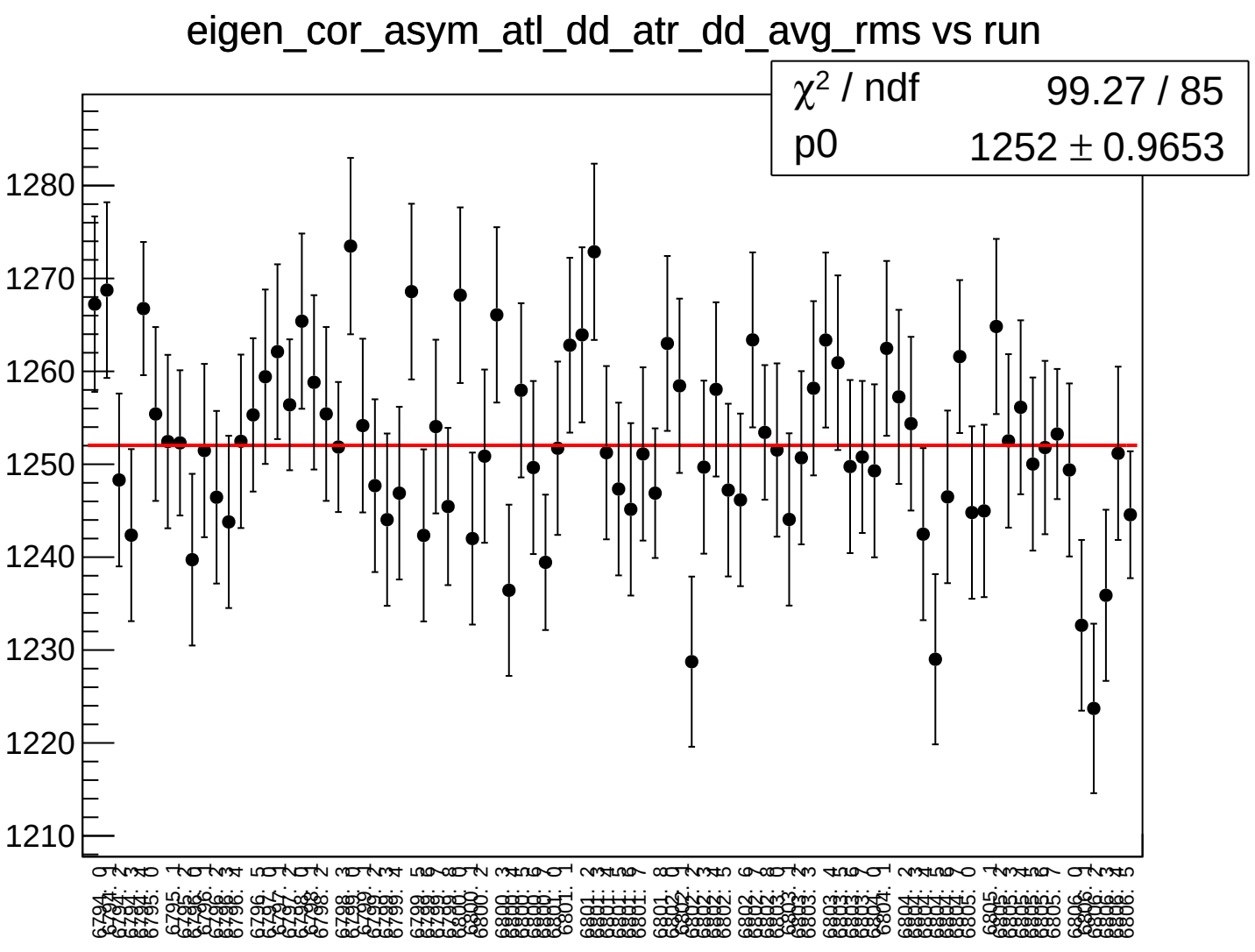

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

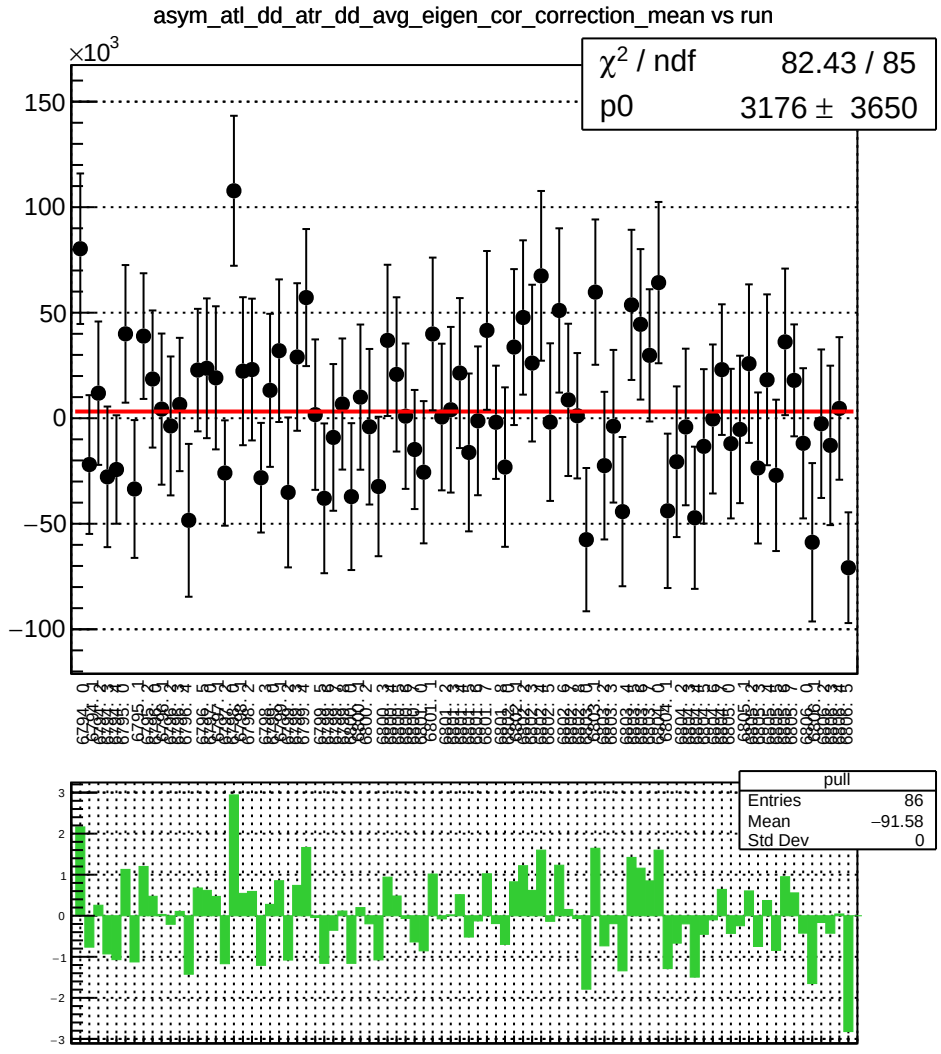

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

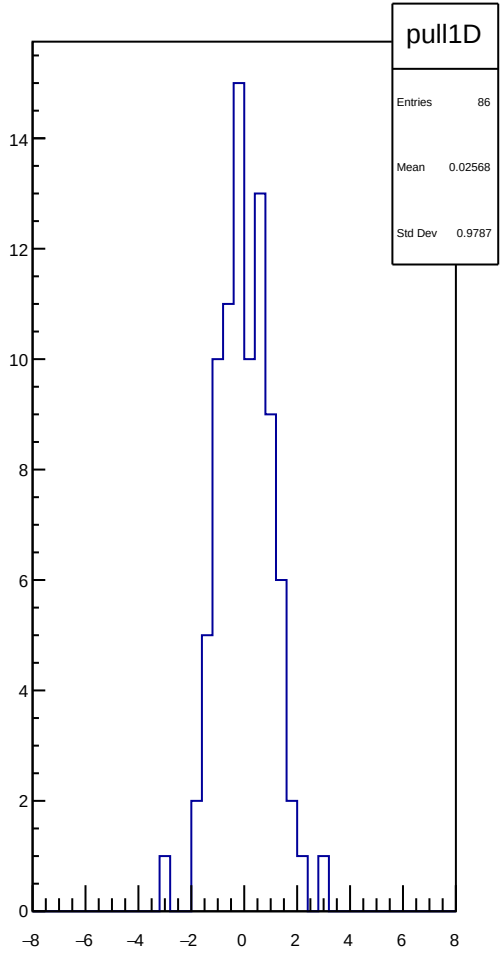

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

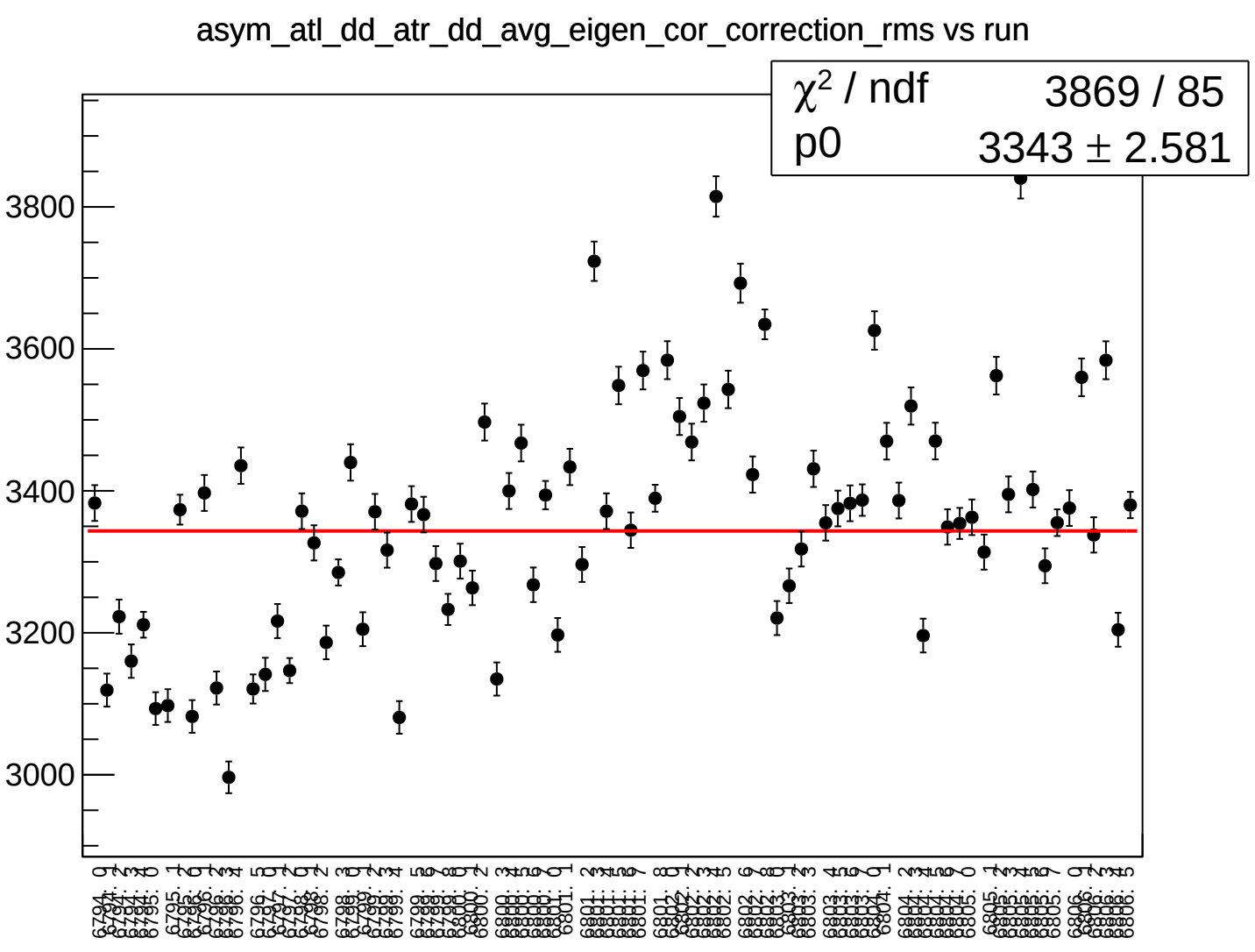

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

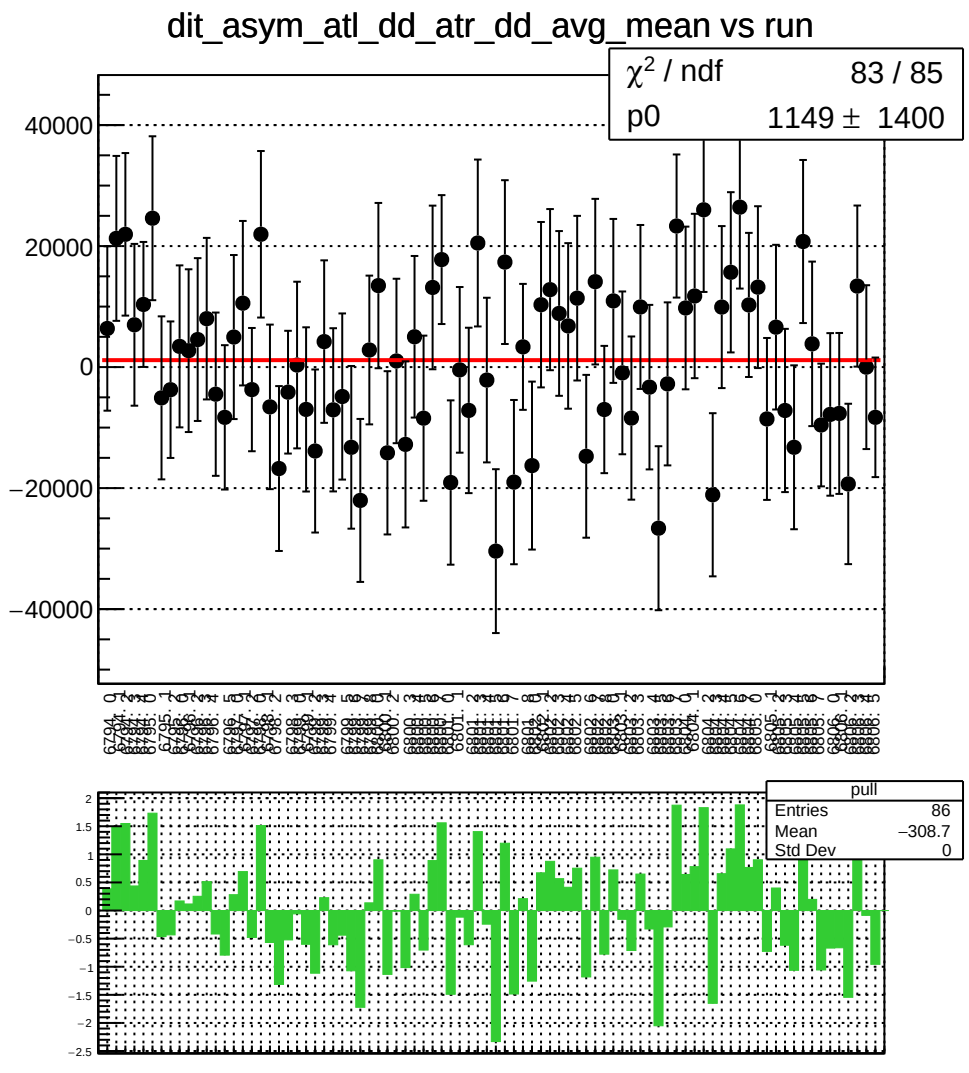

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

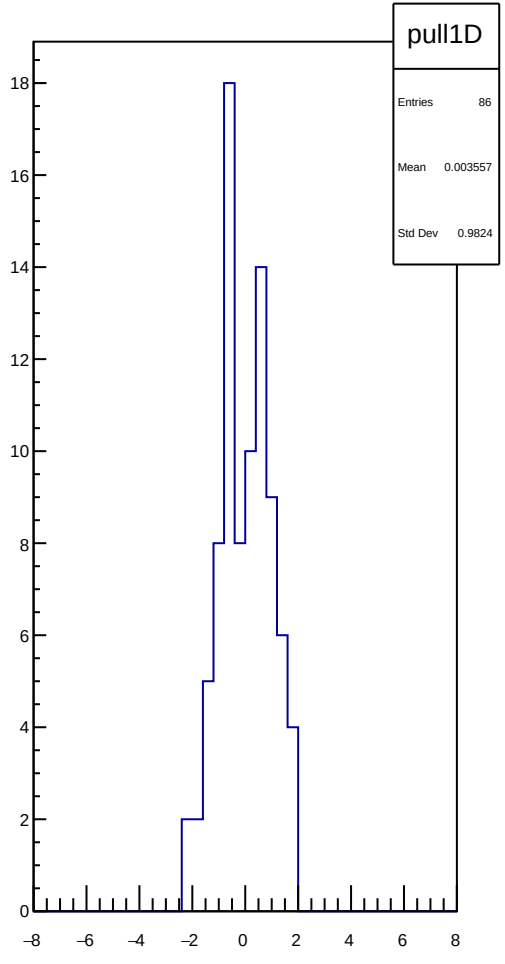

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

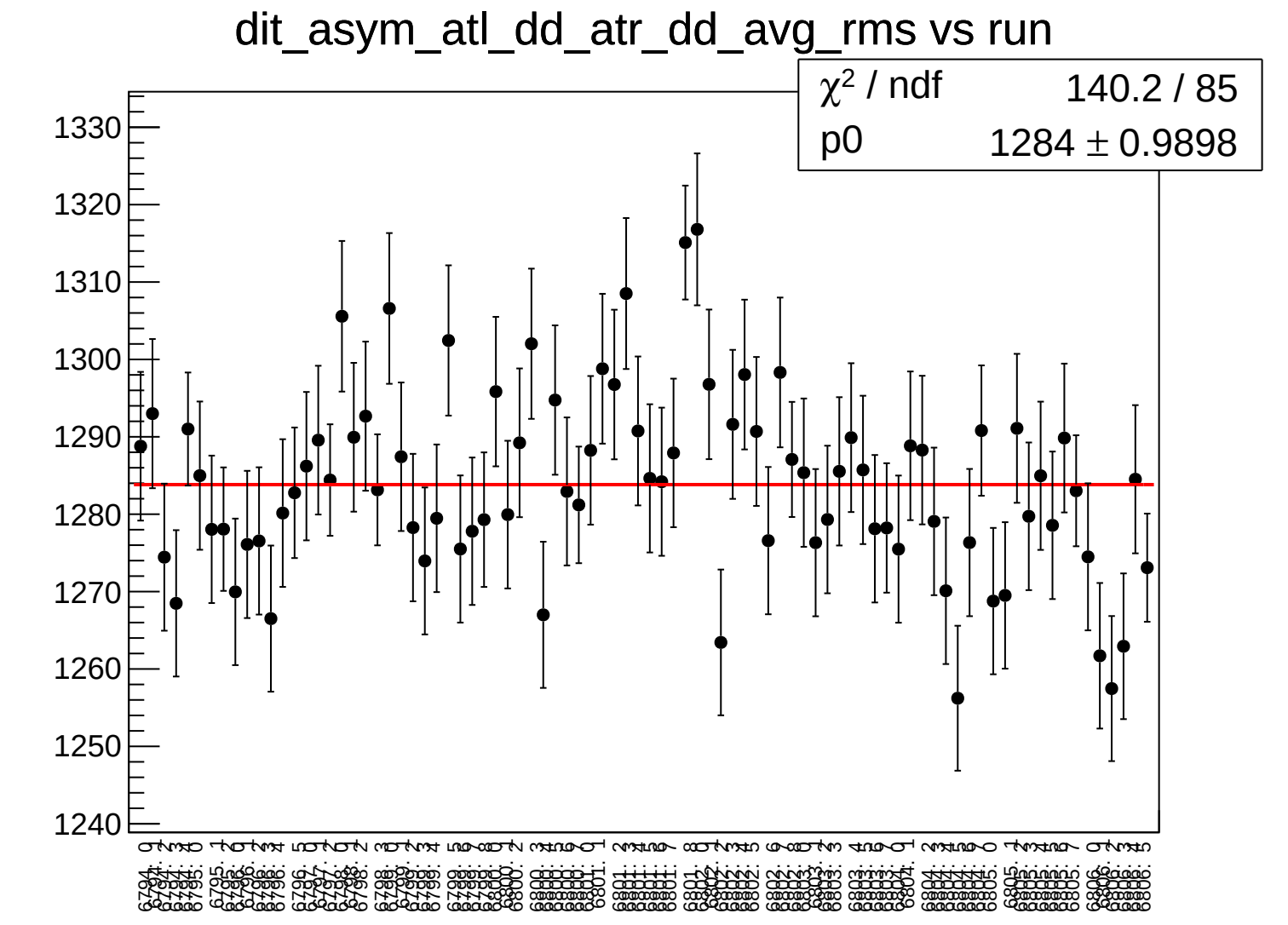

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

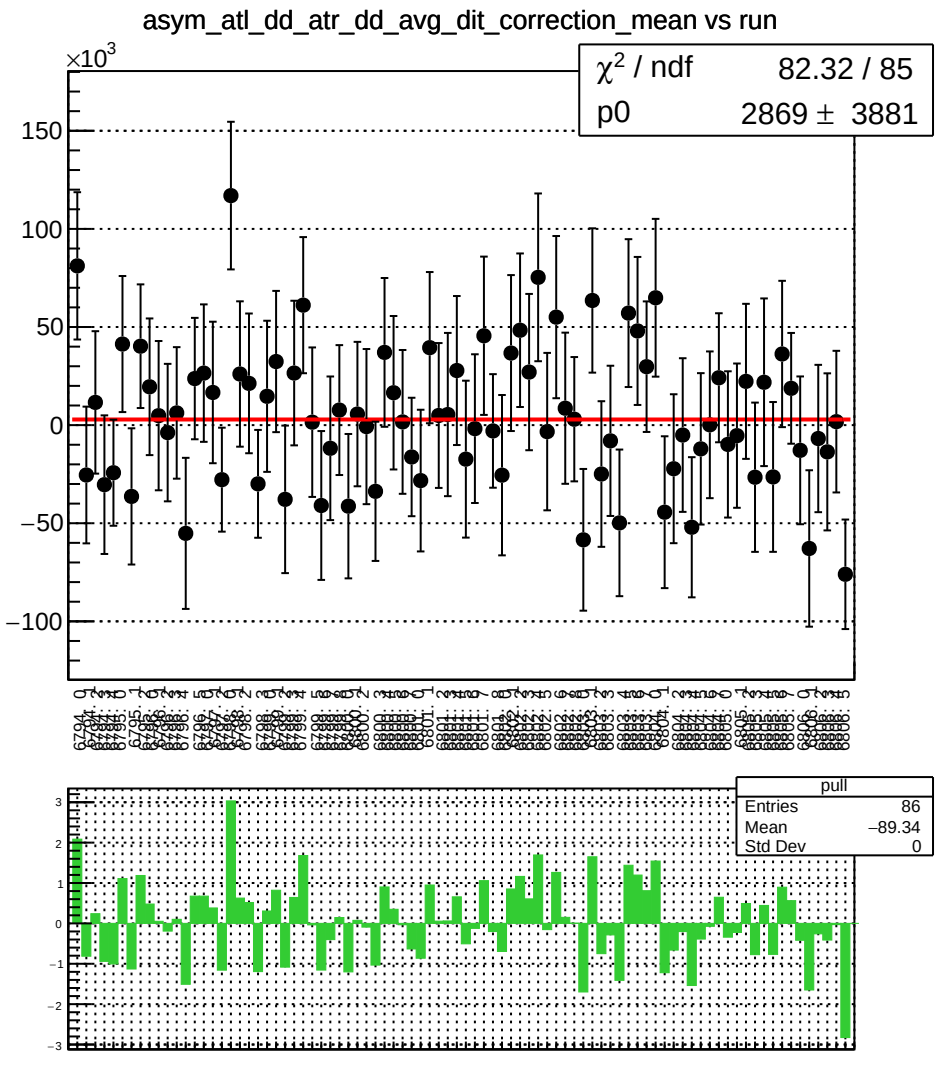

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

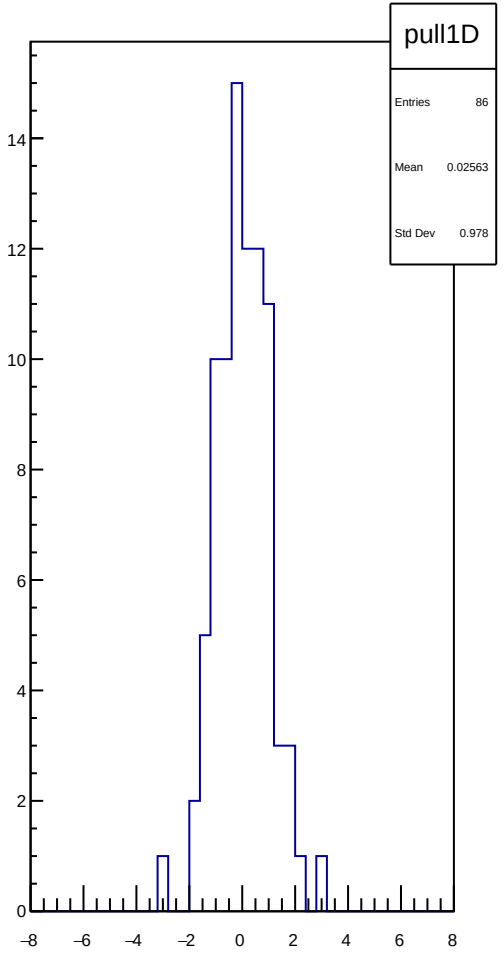

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

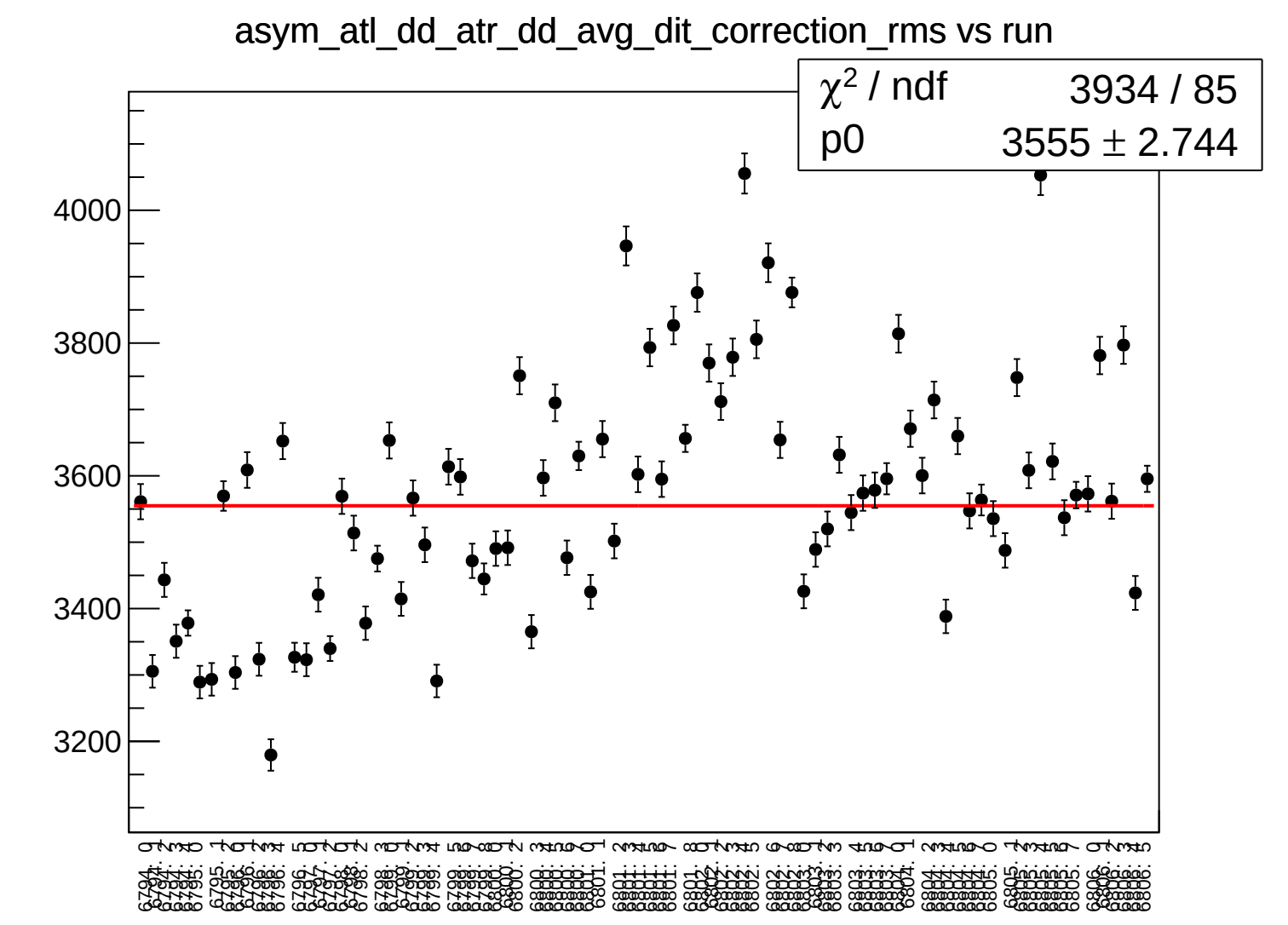

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

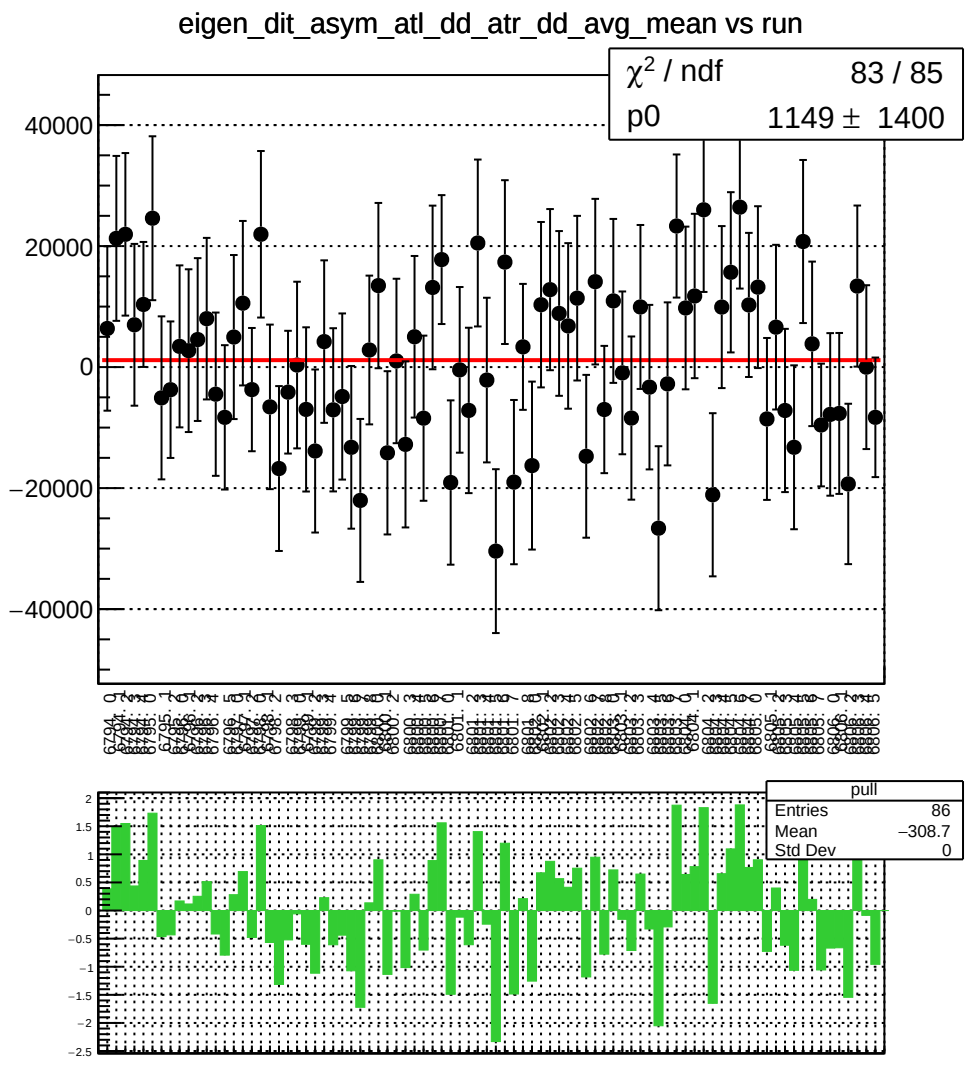

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

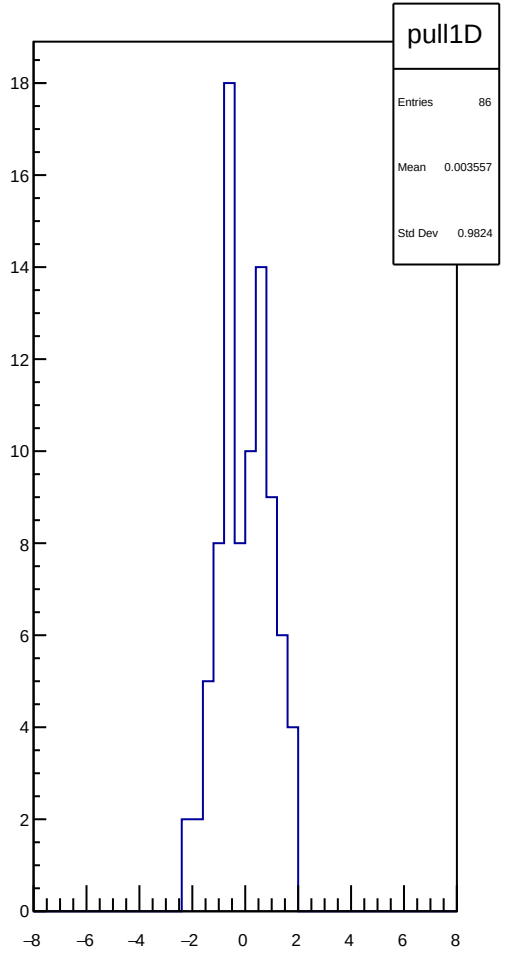

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

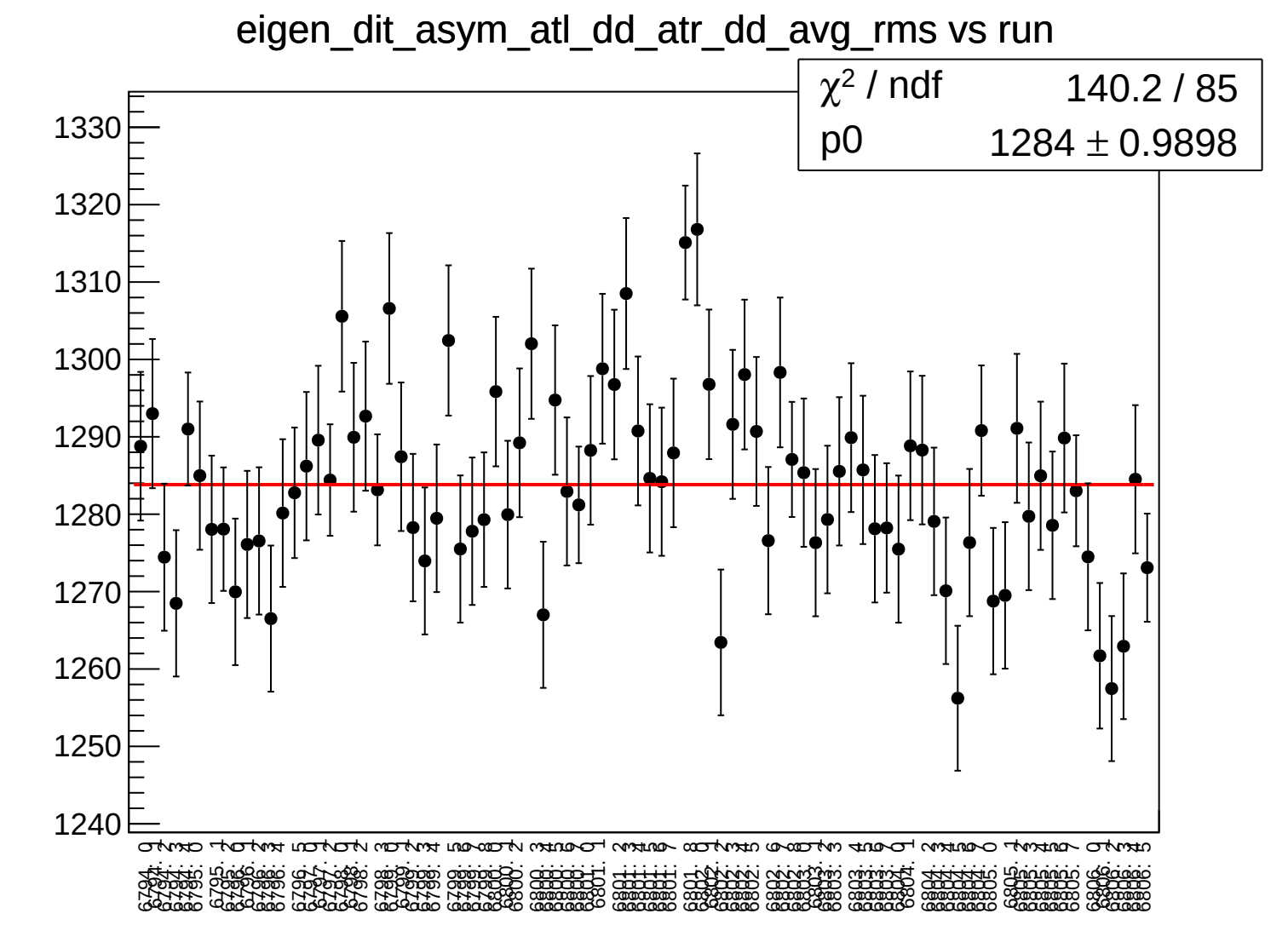

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

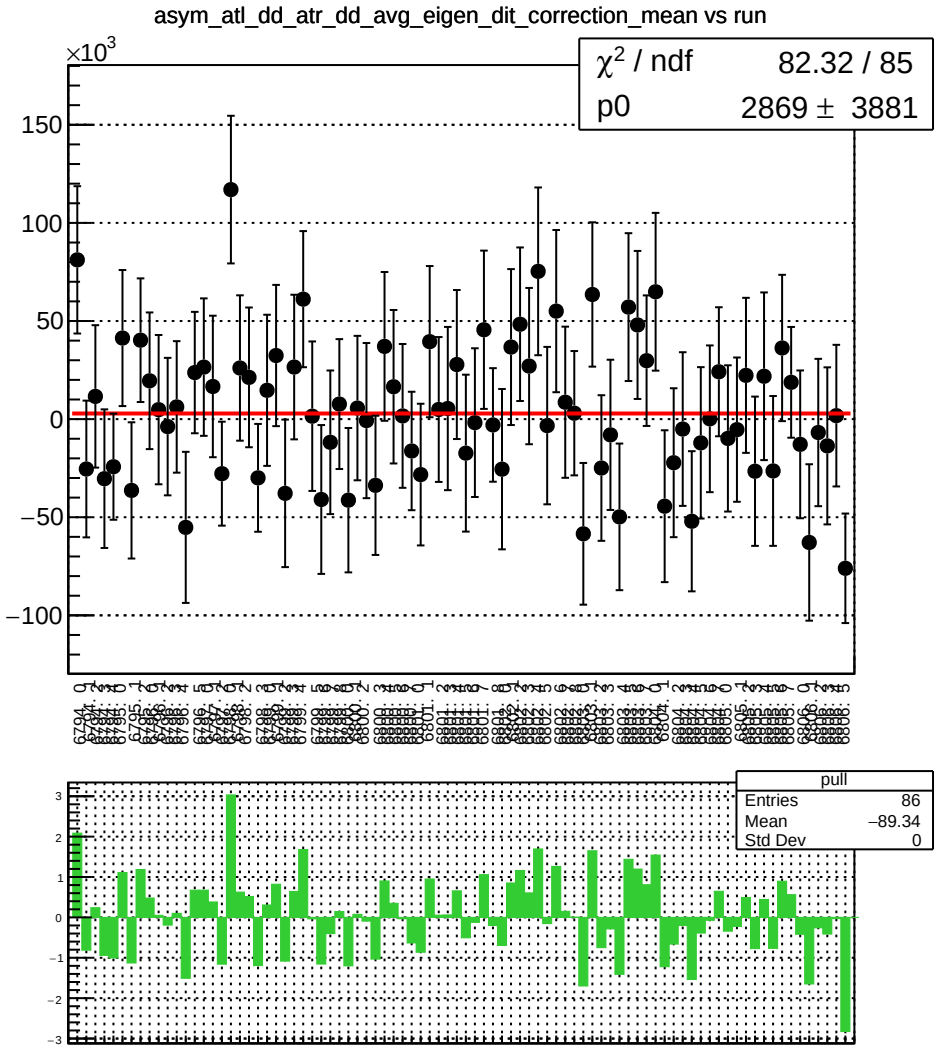

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

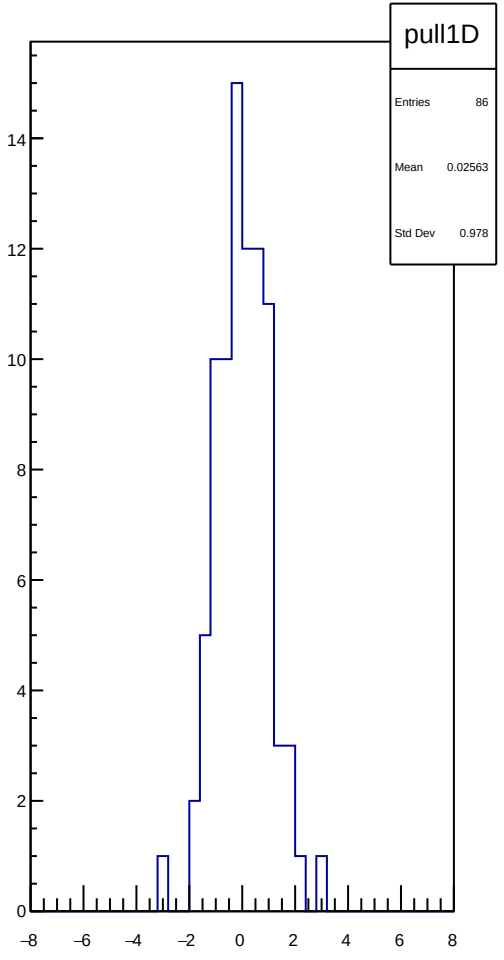

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

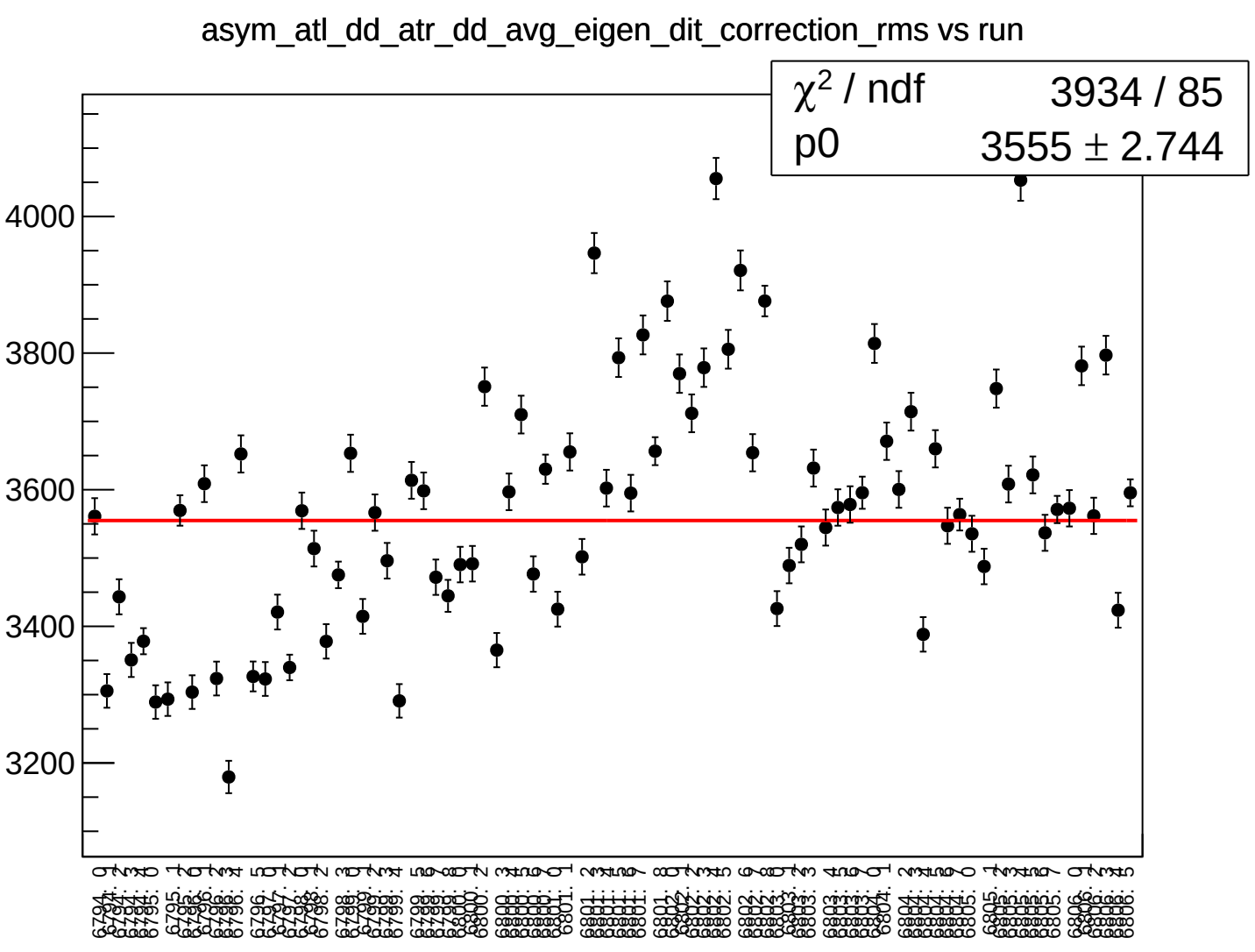

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

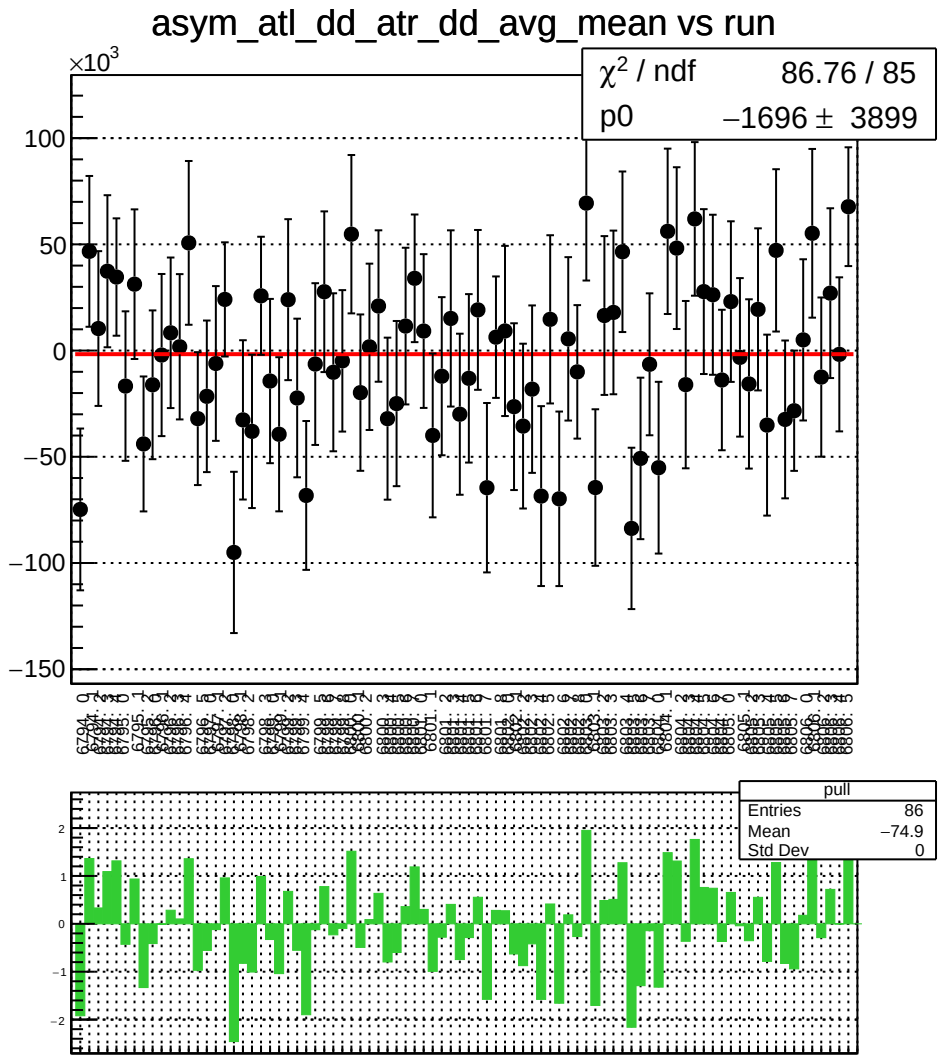

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

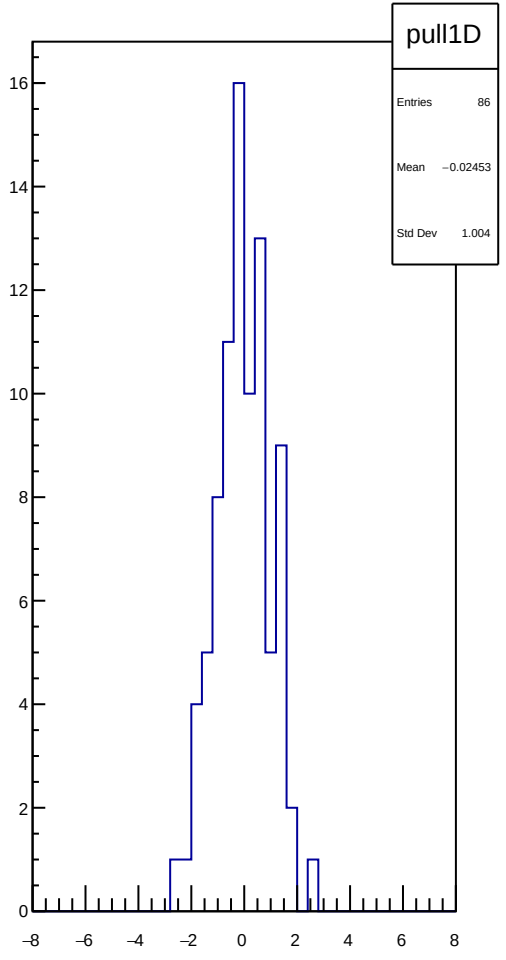

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

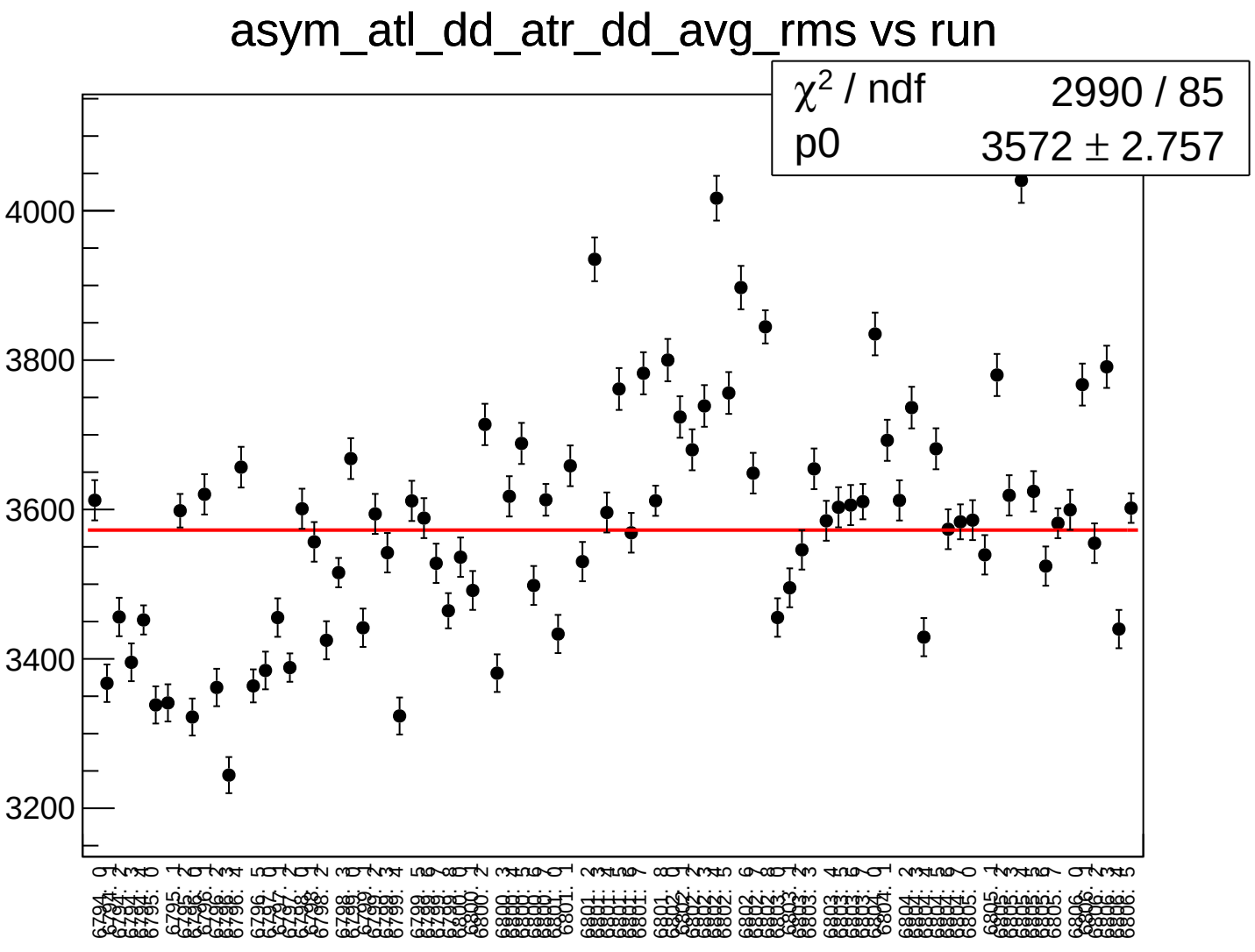

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

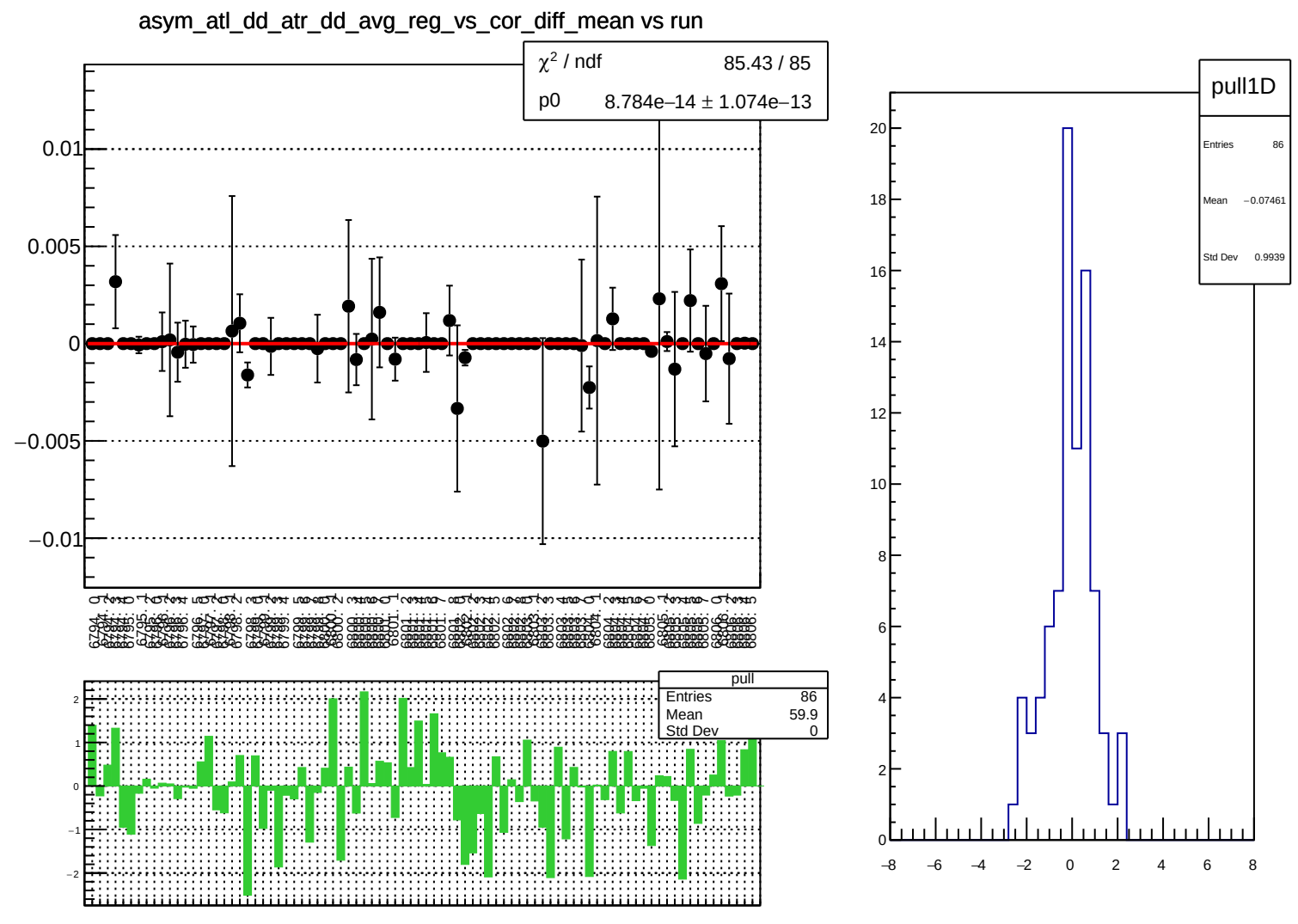

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

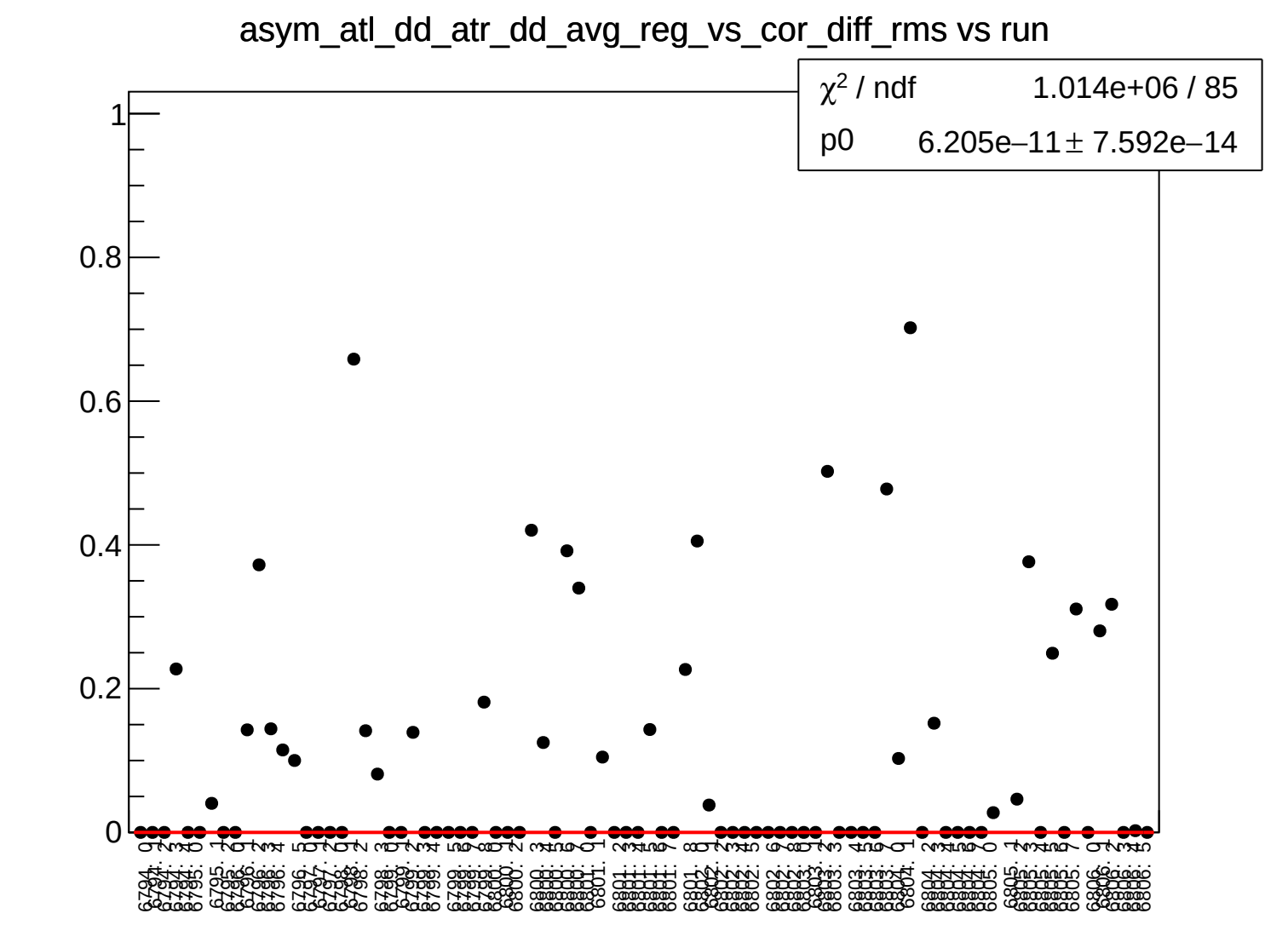

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

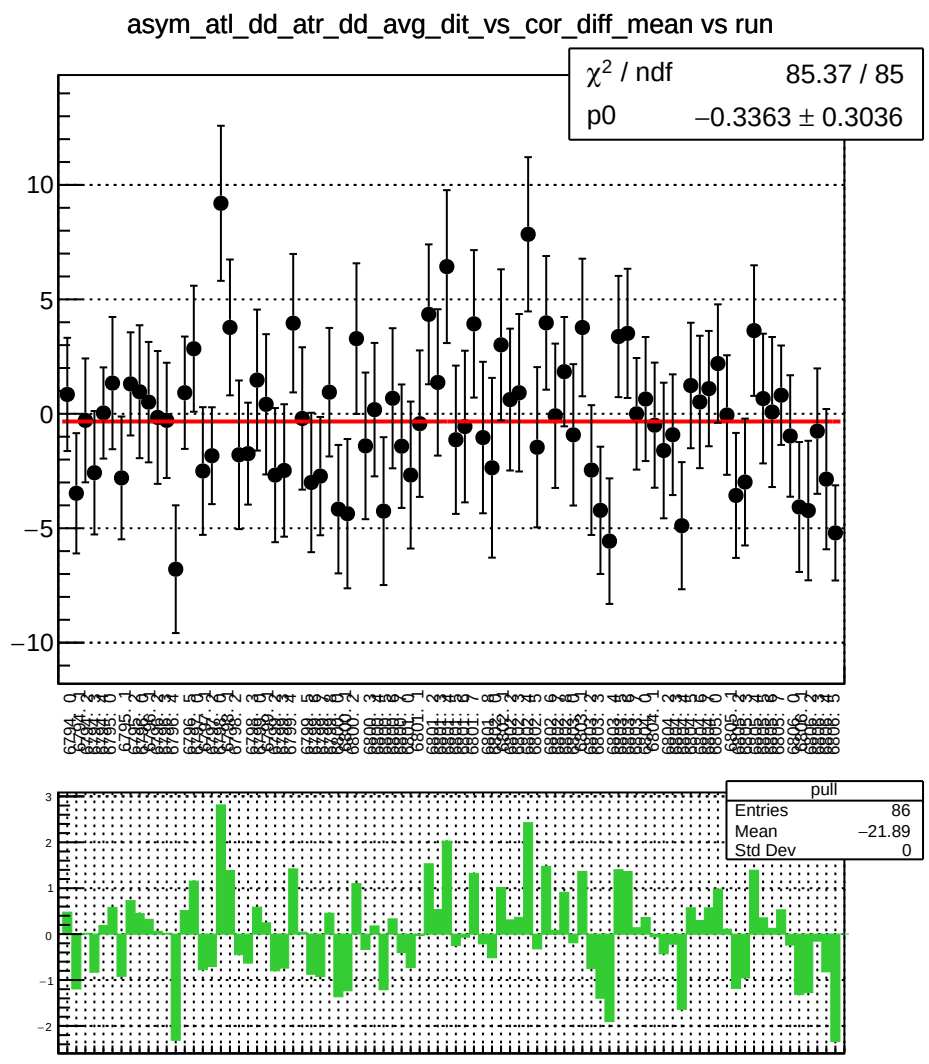

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 86.76 / 85
p0 −1696 ± 3899
100
50
0
−50
−100
−150
pull
Entries 86
Mean −74.9
Std Dev 0
2
1
0
−1
−2

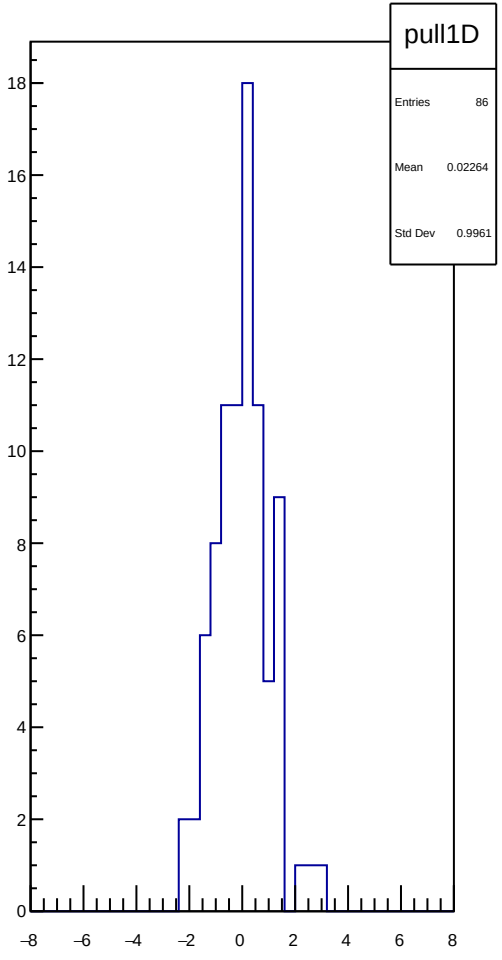

pull1D
Entries 86
Mean −0.02453
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

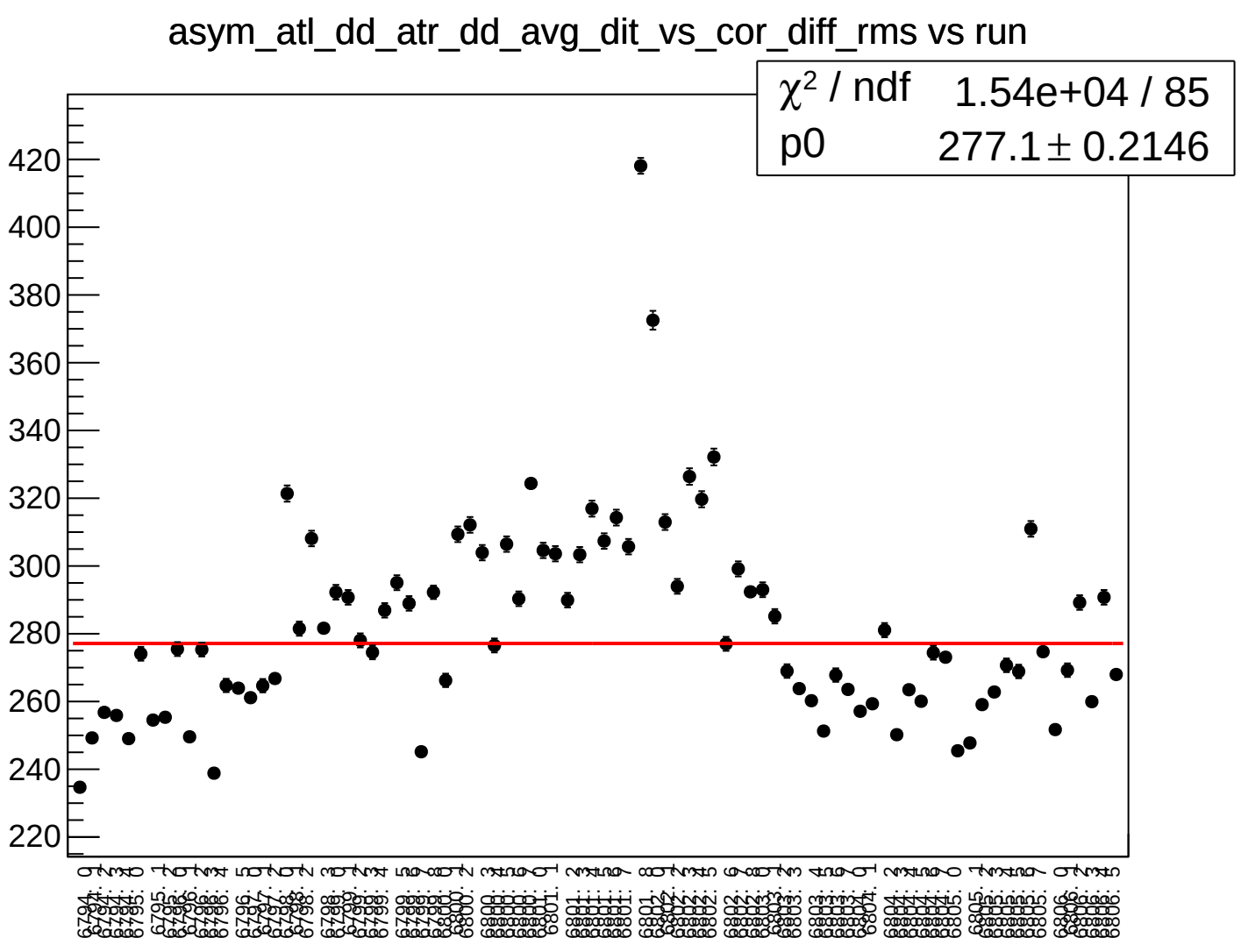

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2990 / 85
p0 3572 ± 2.757
4000
3800
3600
3400
3200

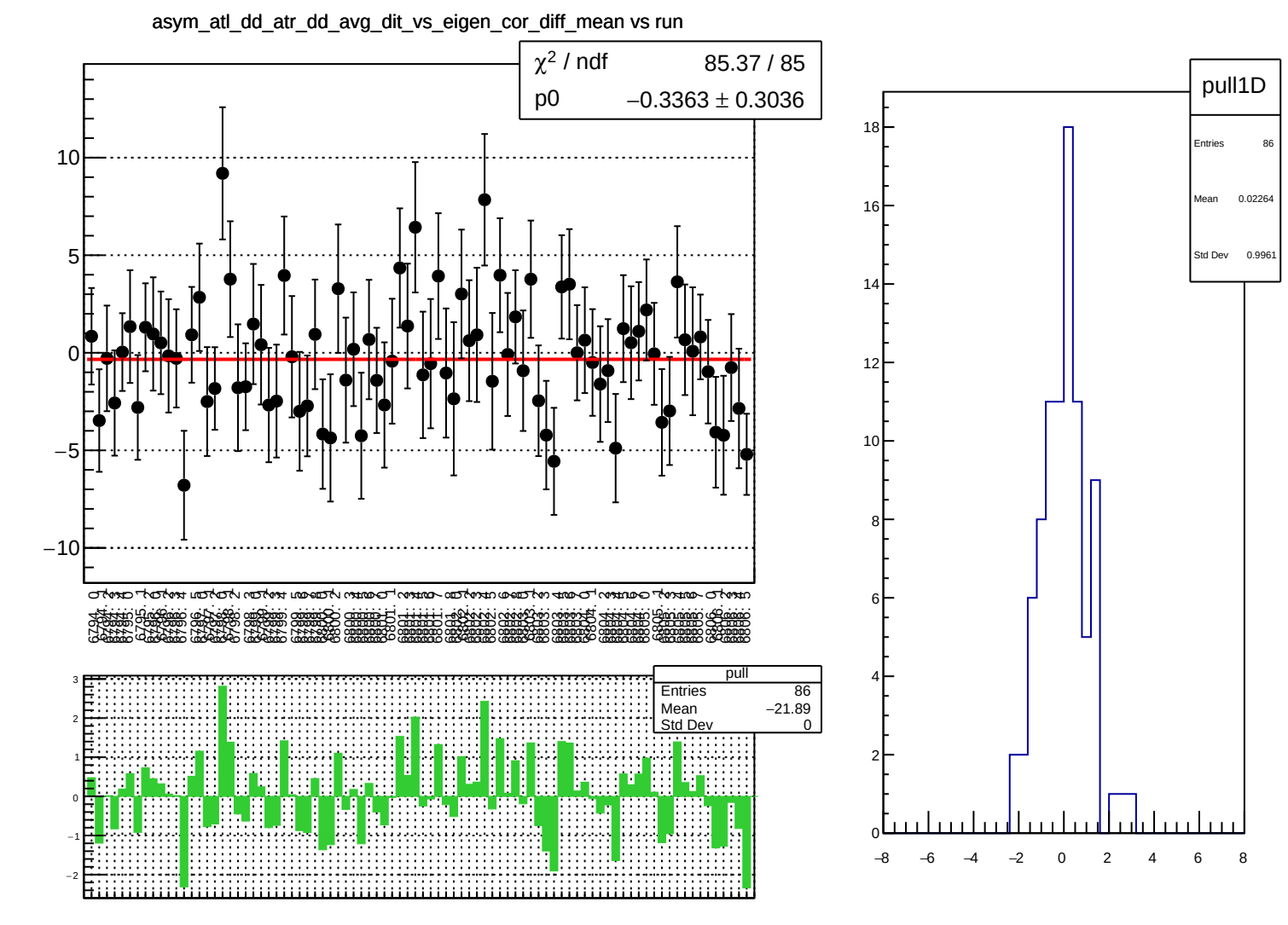

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 85
p0 8.784e−14 ± 1.074e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 59.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.07461
Std Dev 0.9939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

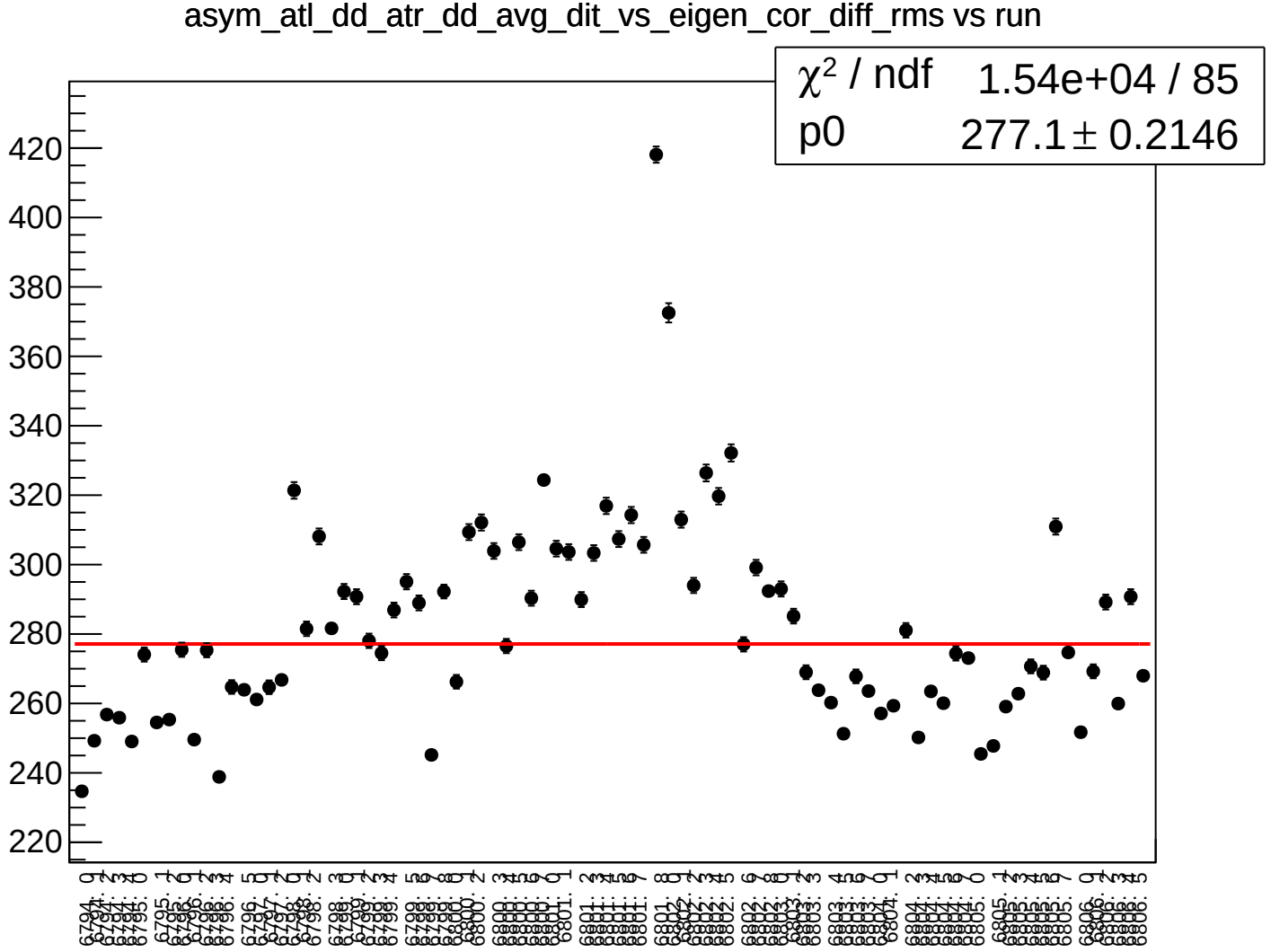

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 6.205e−11 ± 7.592e−14
1
0.8
0.6
0.4
0.2
0

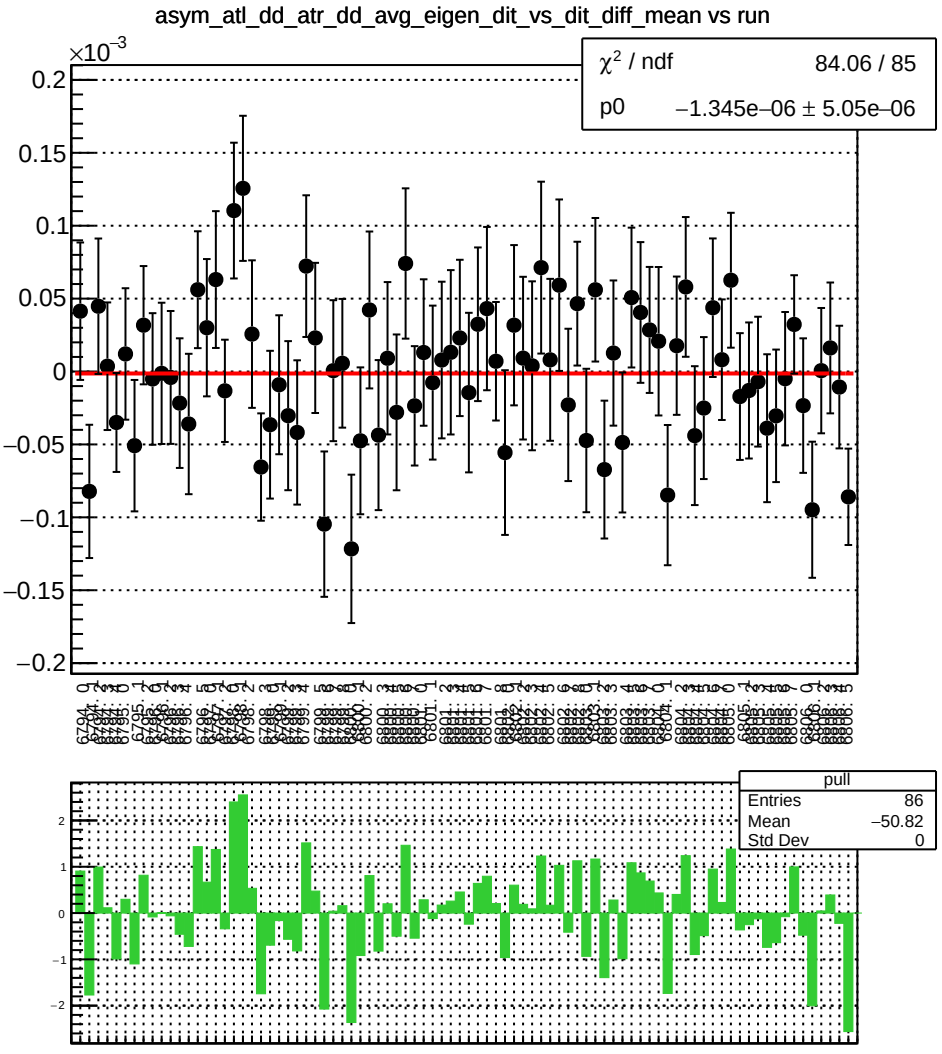

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0

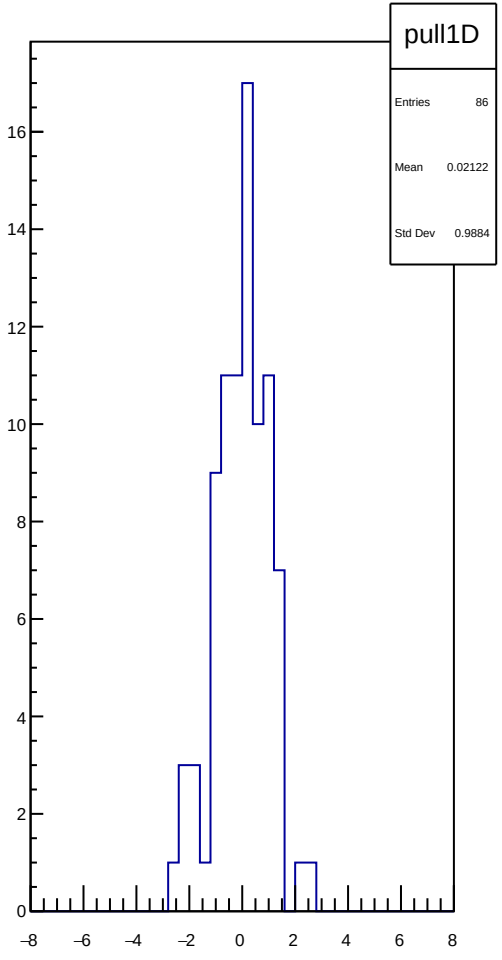

pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

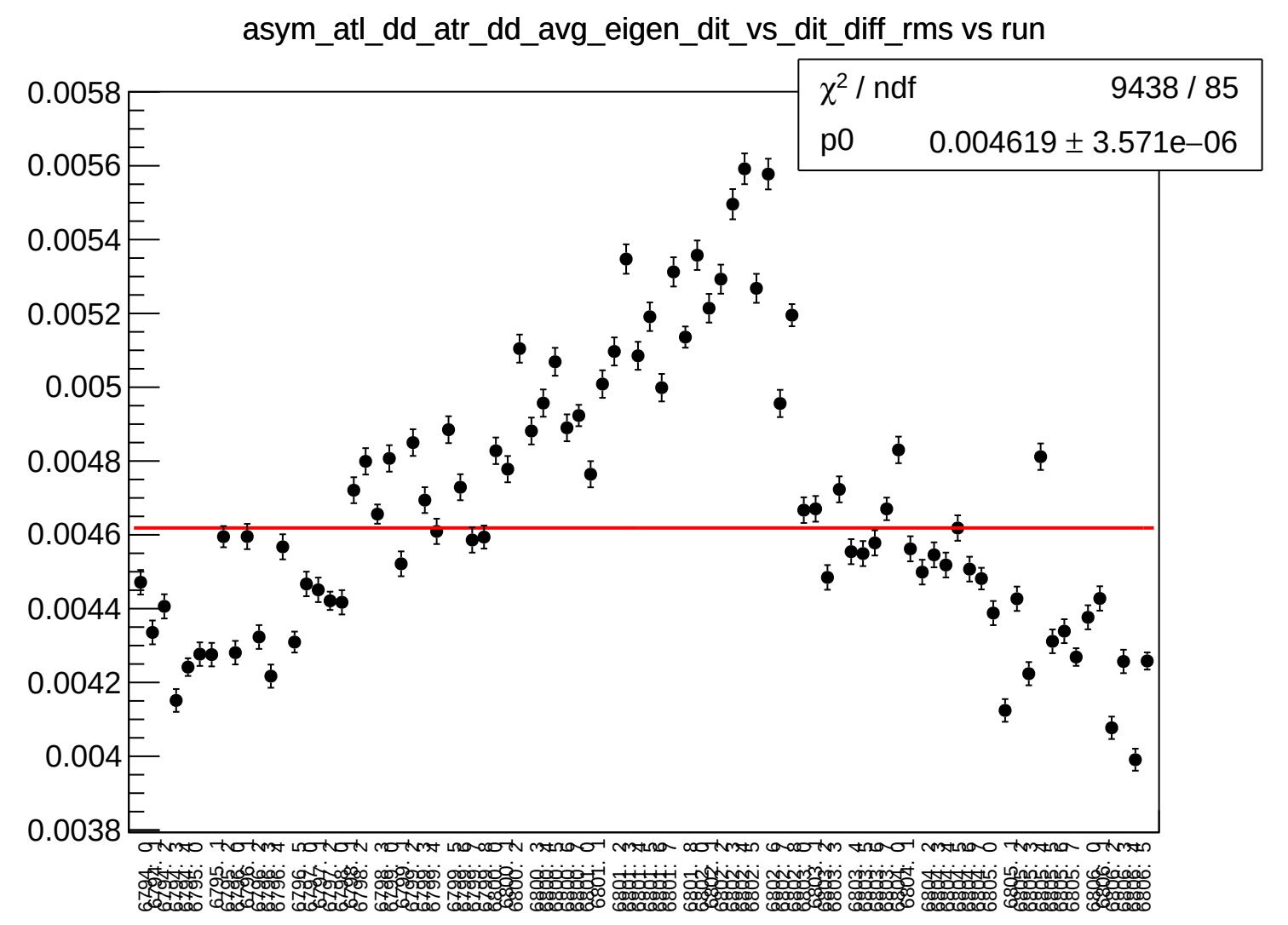

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

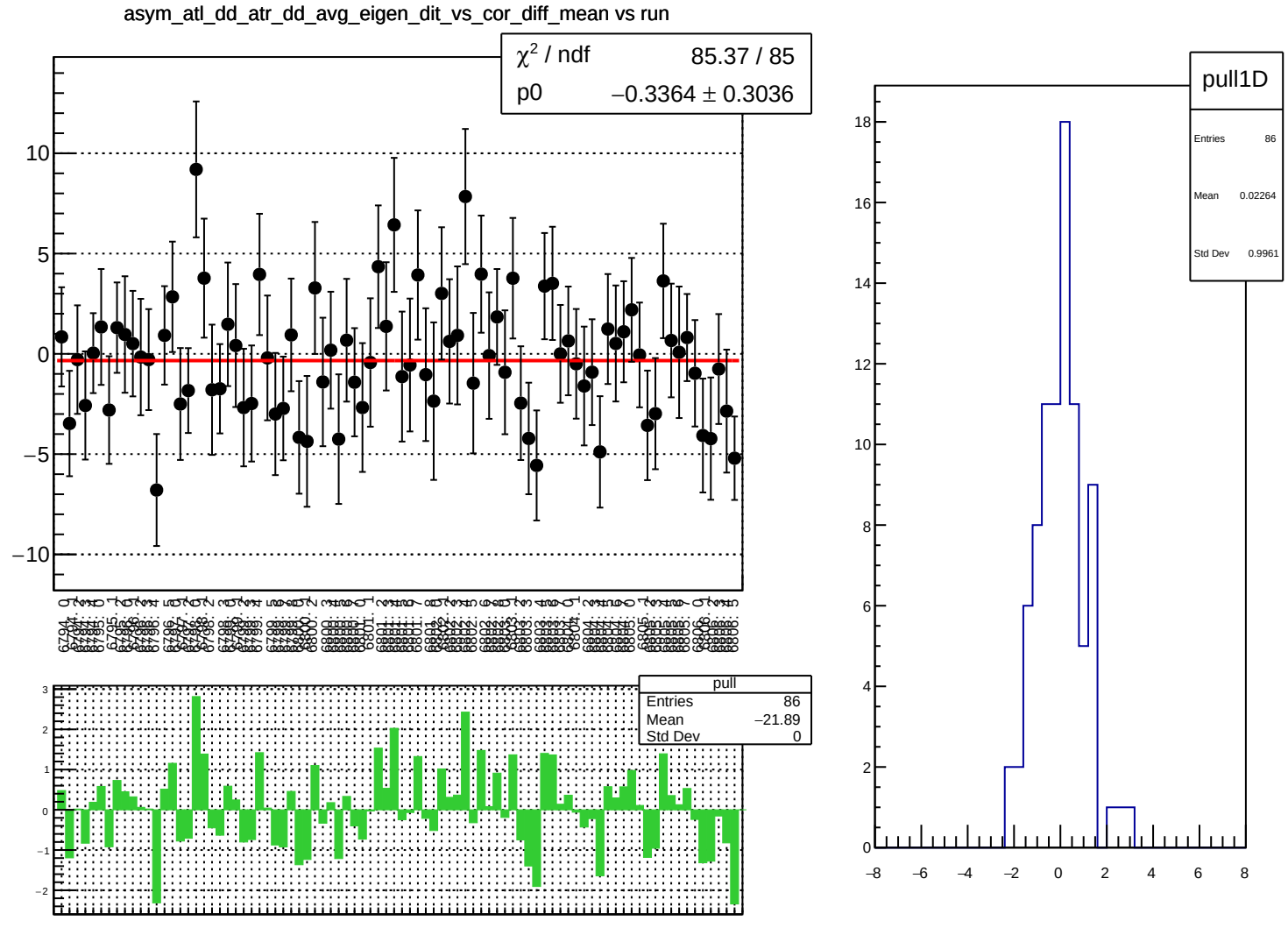

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

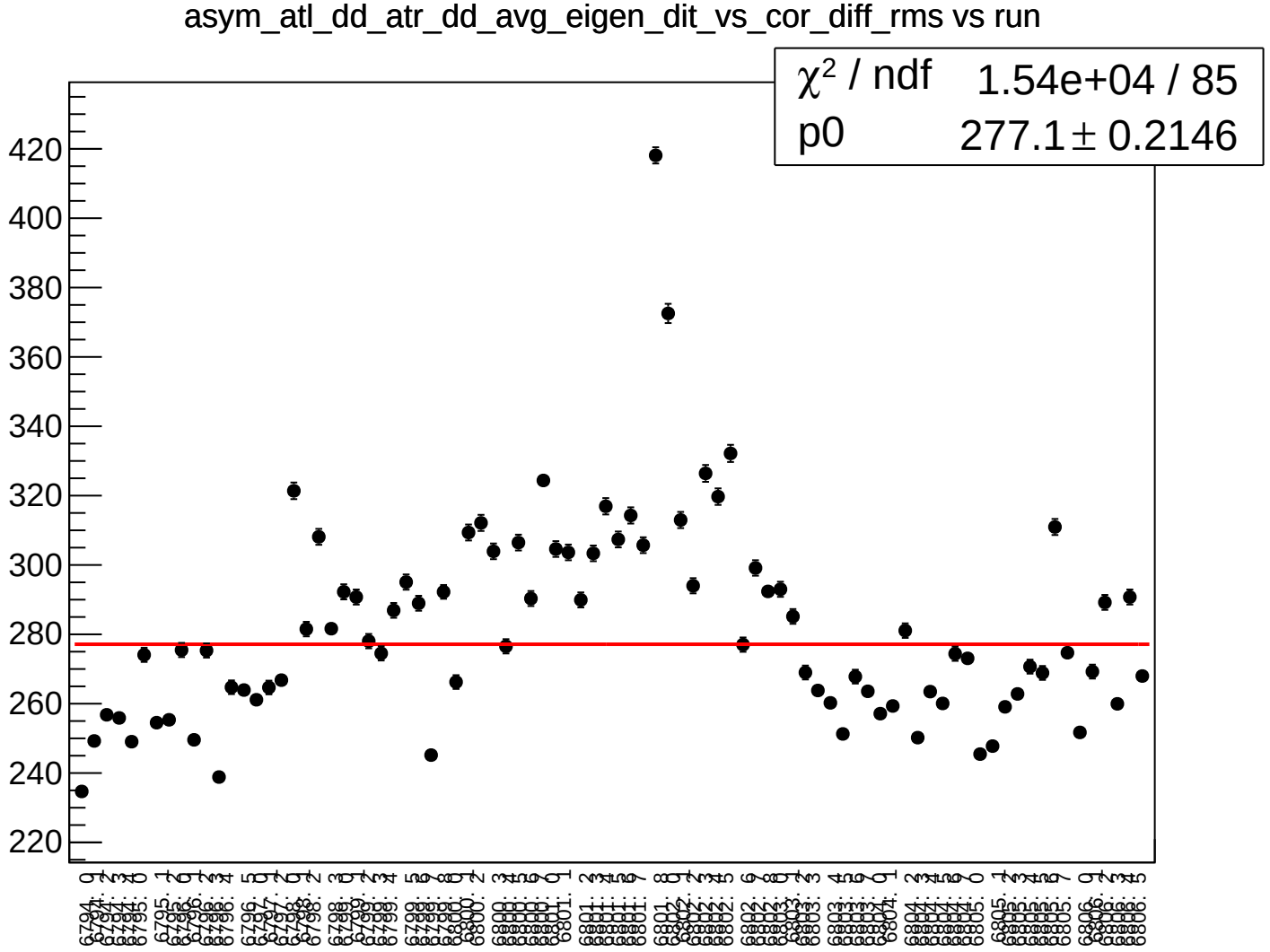

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

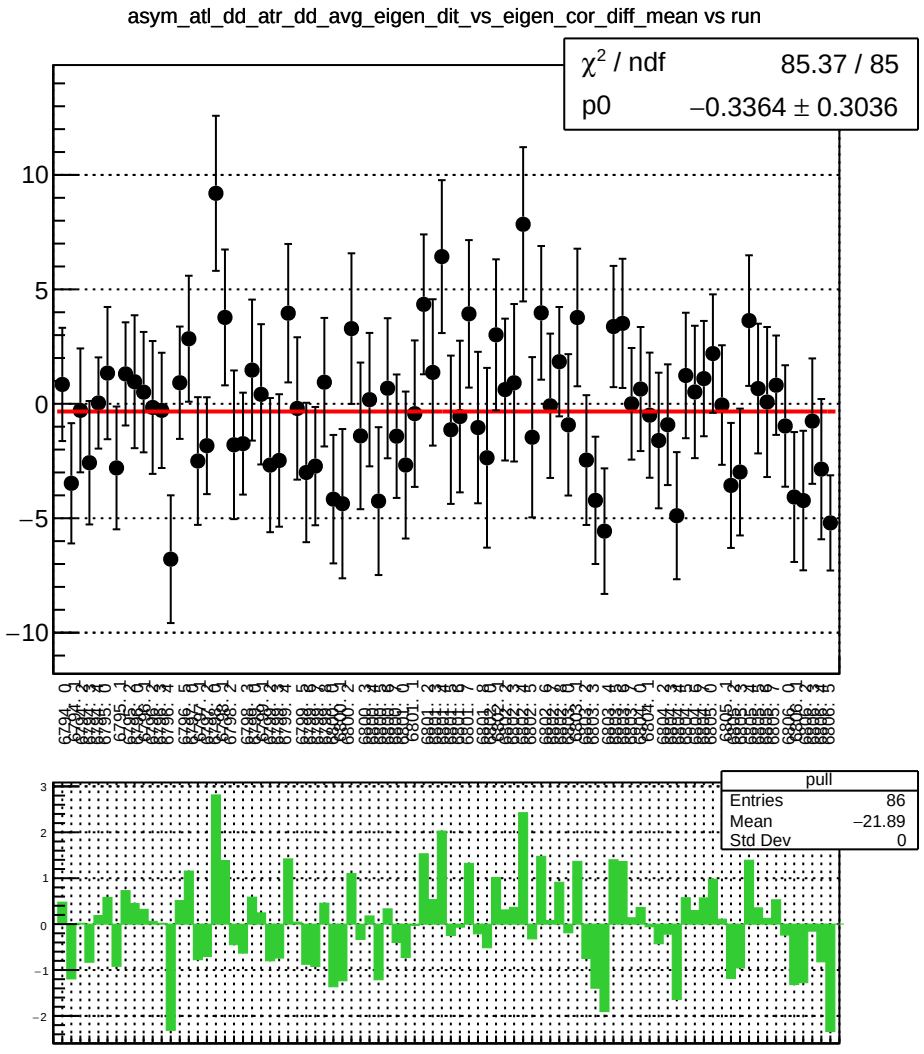

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.06 / 85
p0 −1.345e−06 ± 5.05e−06
pull
Entries 86
Mean −50.82
Std Dev 0

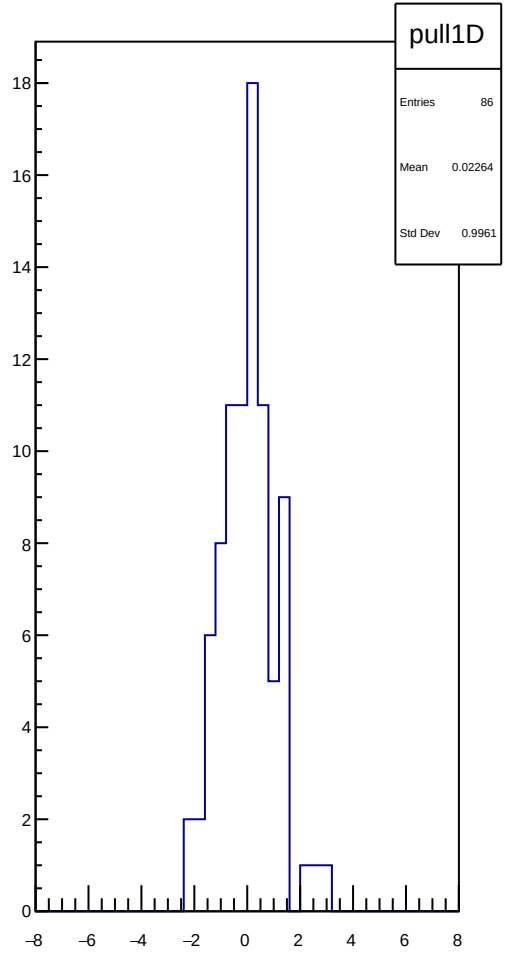

pull1D
Entries 86
Mean 0.02122
Std Dev 0.9884

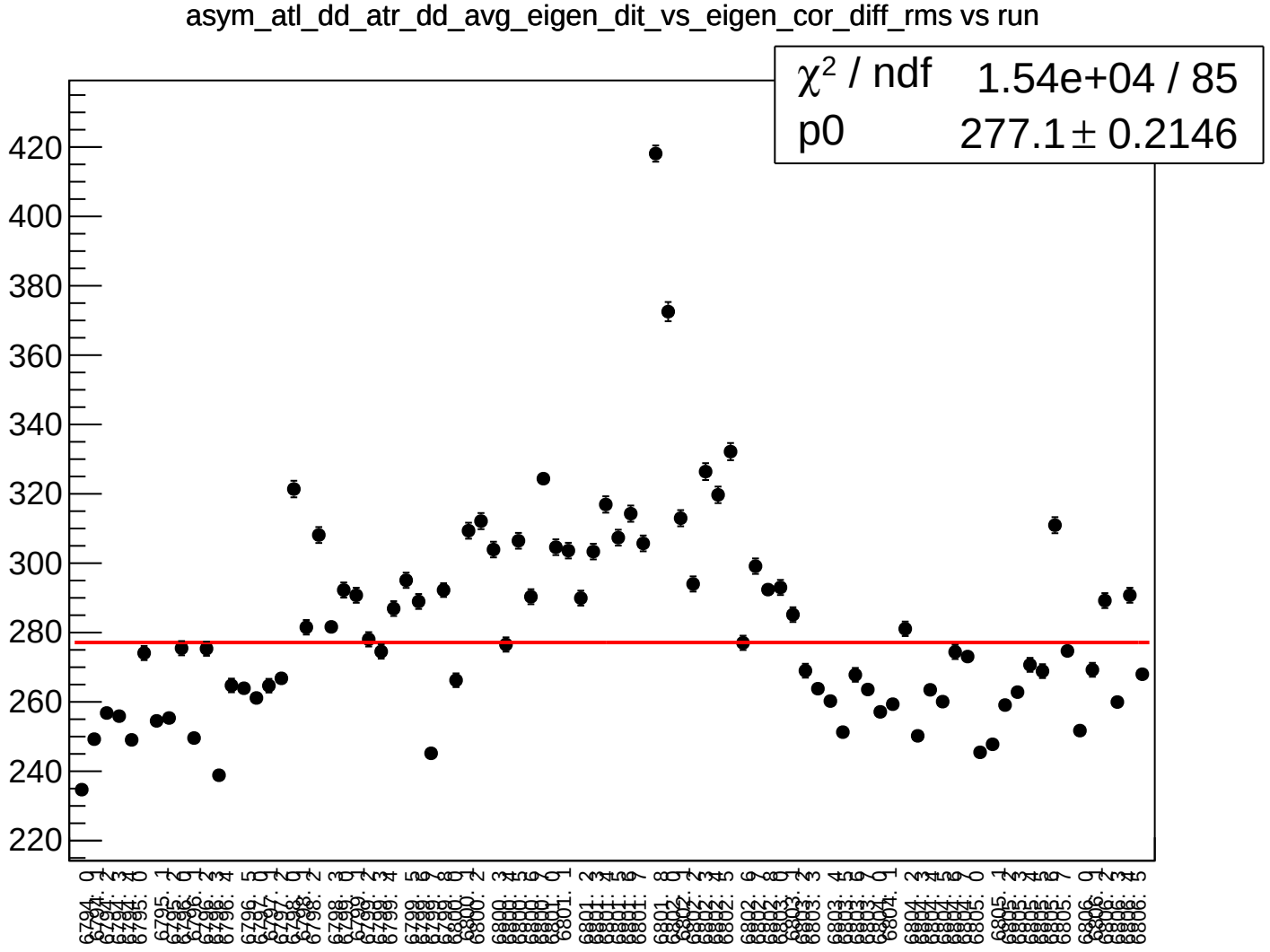

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9438 / 85
p0 0.004619 ± 3.571e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

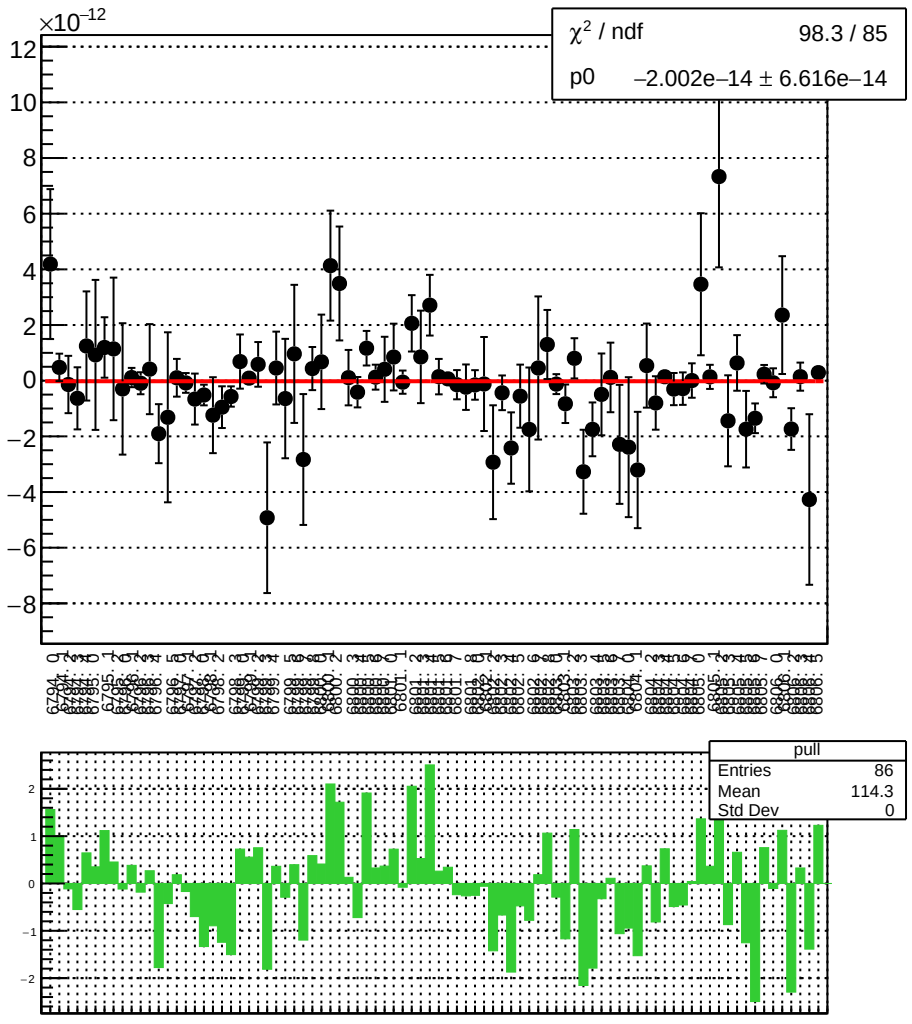

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

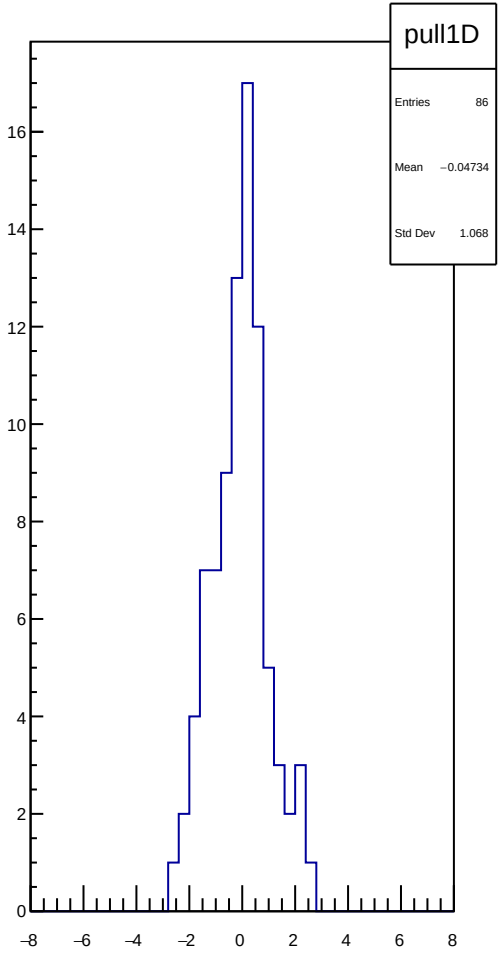

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

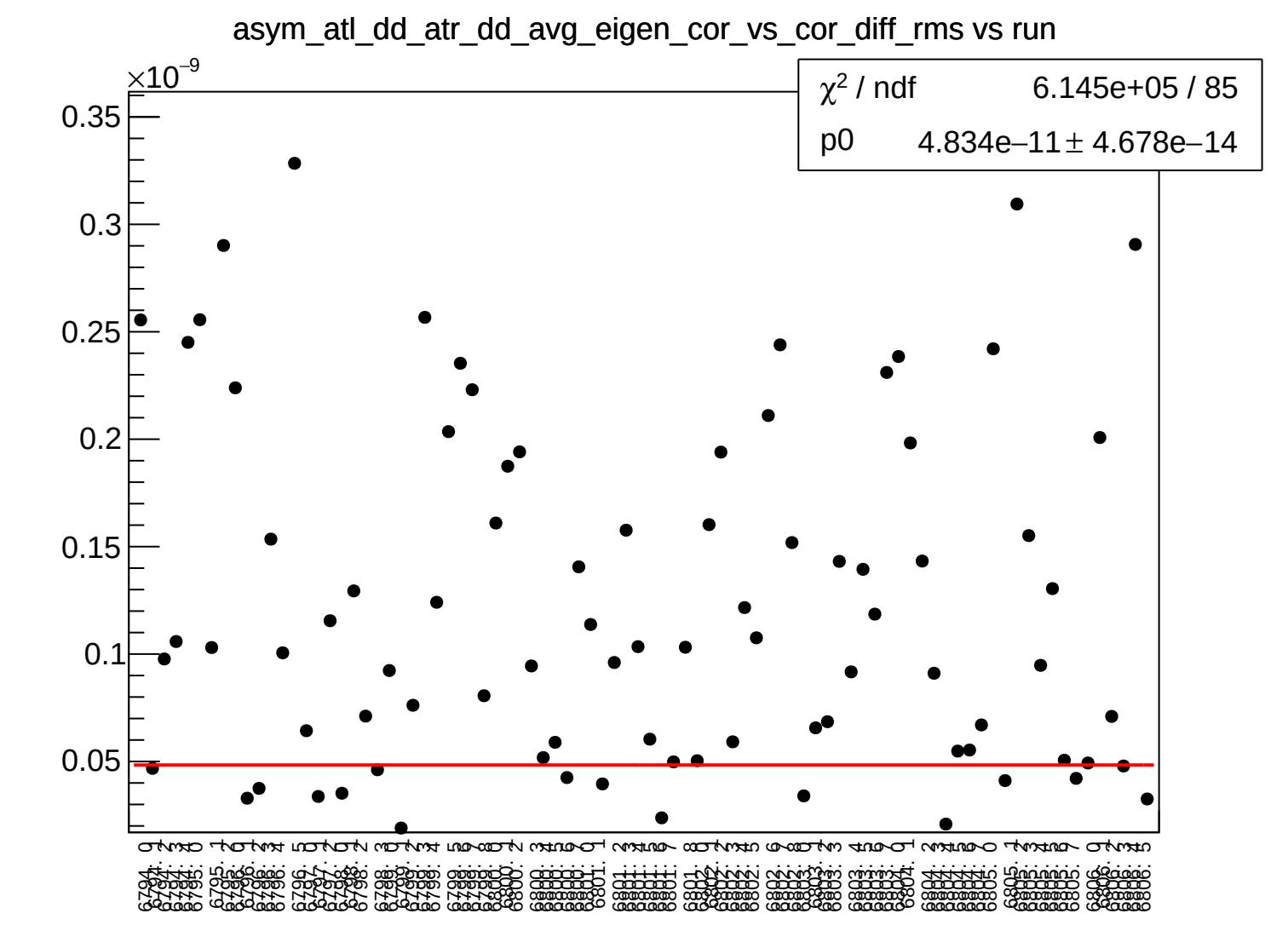

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0

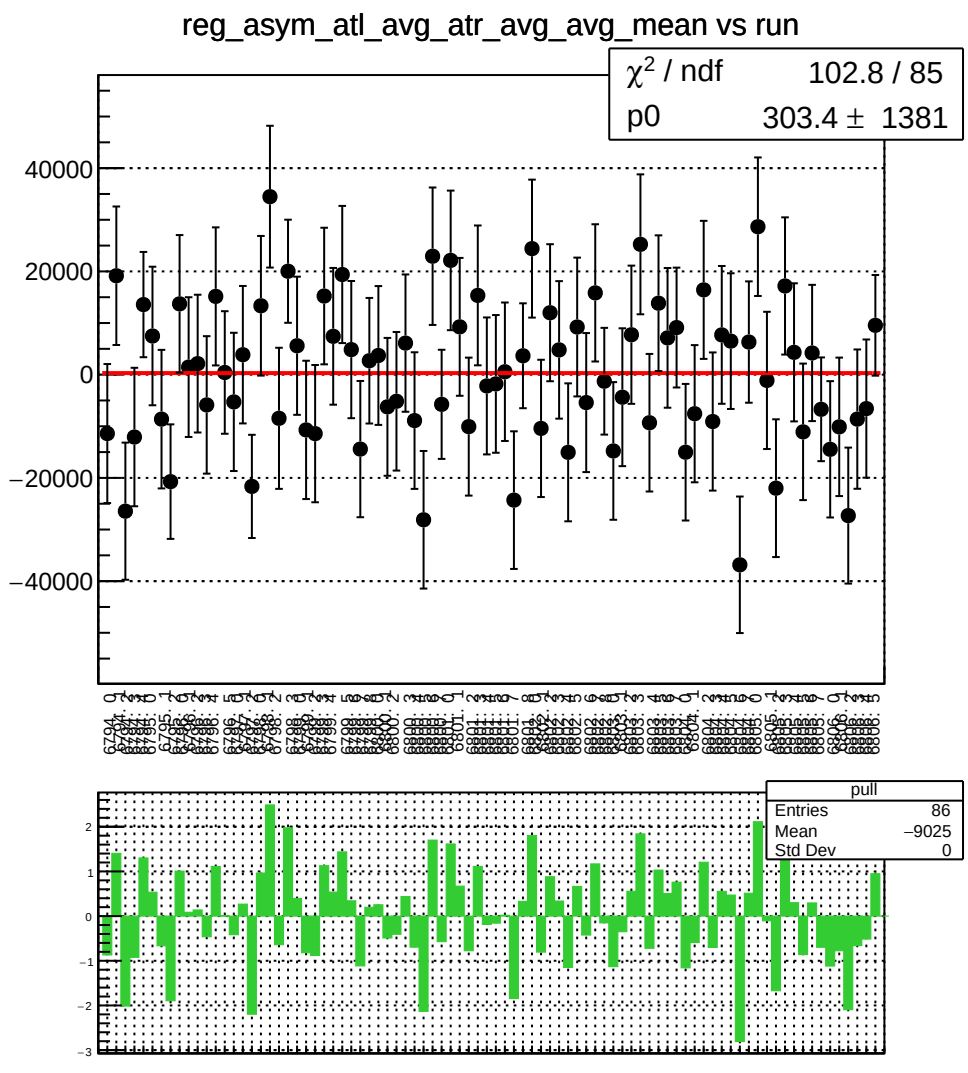

pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

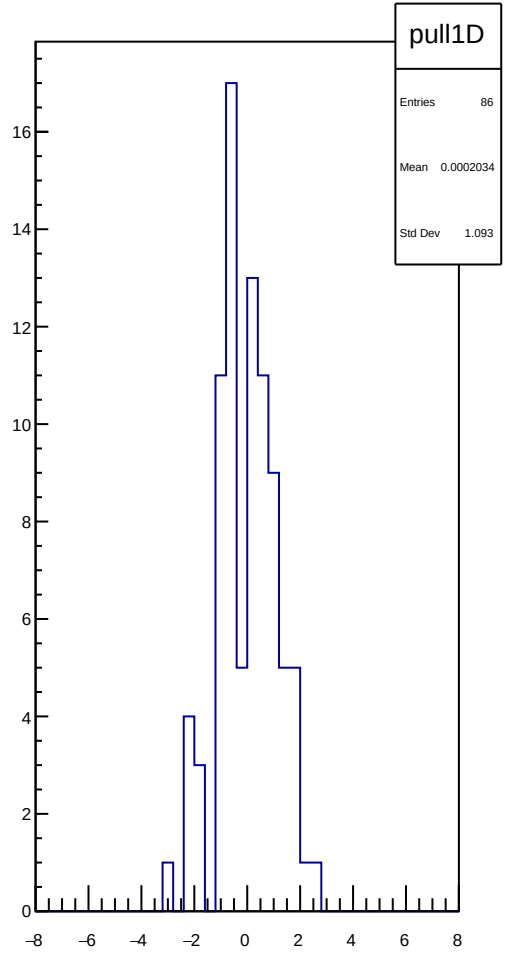

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

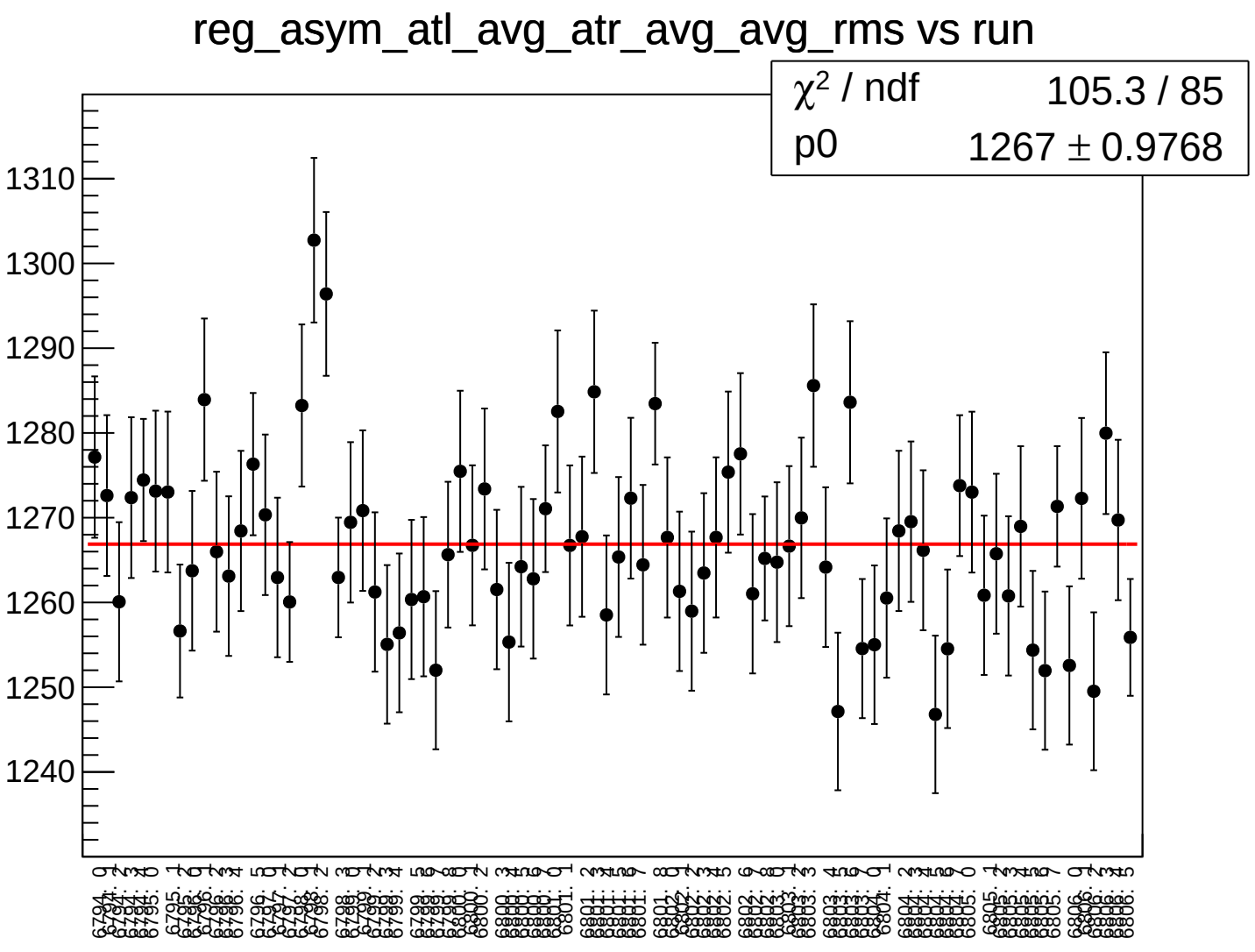

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.3 / 85
p0 −2.002e−14 ± 6.616e−14
pull
Entries 86
Mean 114.3
Std Dev 0

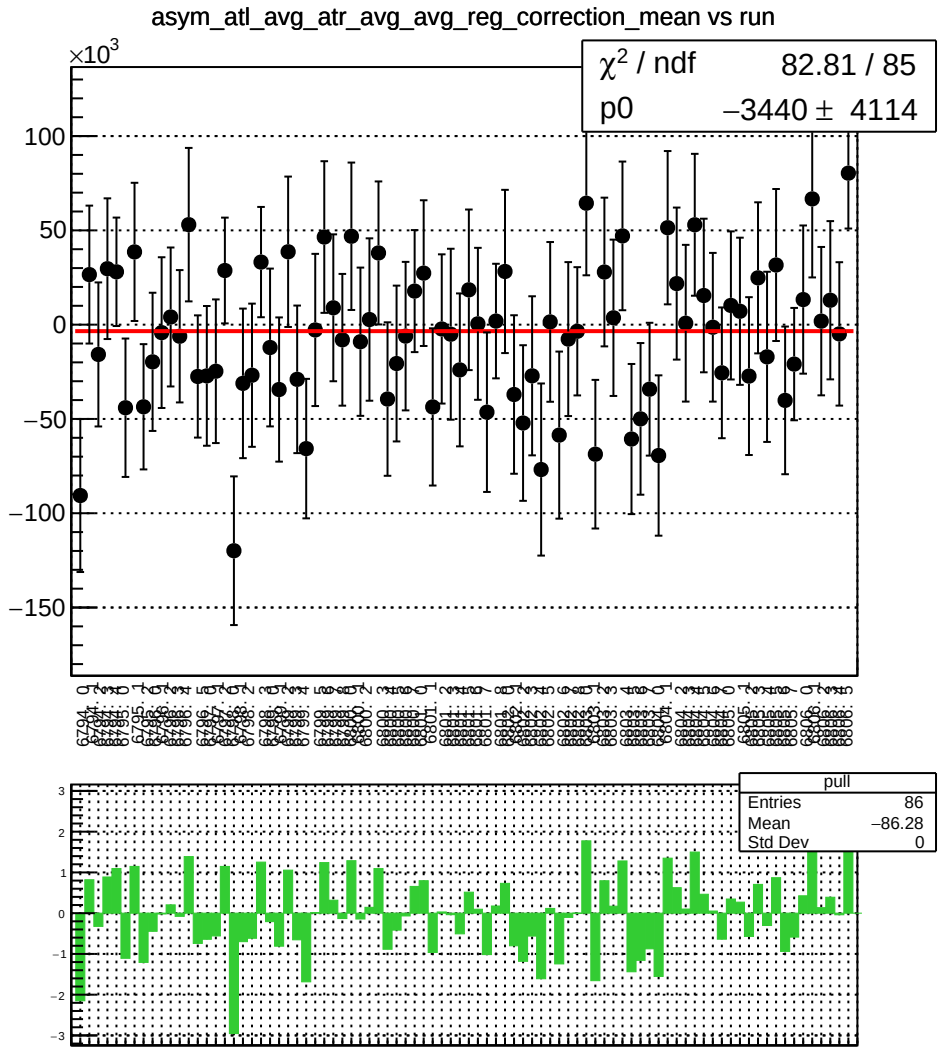

pull1D
Entries 86
Mean −0.04734
Std Dev 1.068

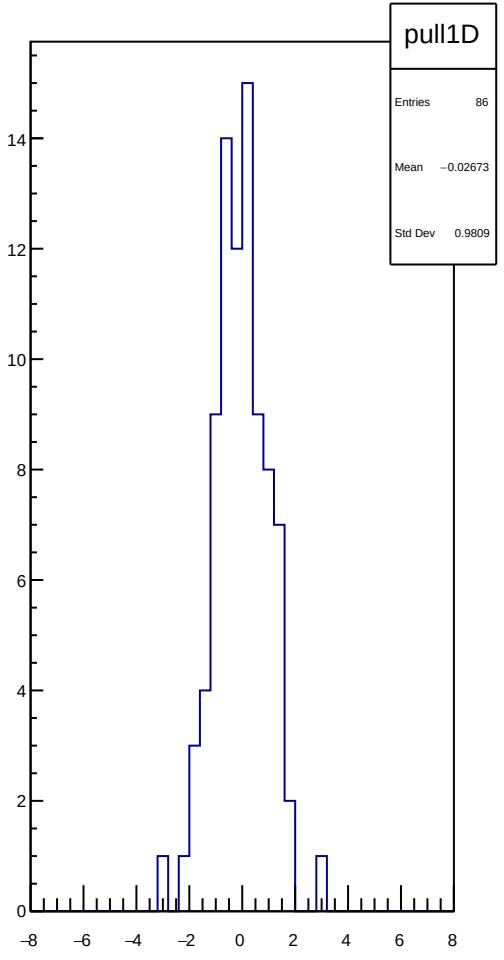

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.145e+05 / 85
p0 4.834e−11 ± 4.678e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

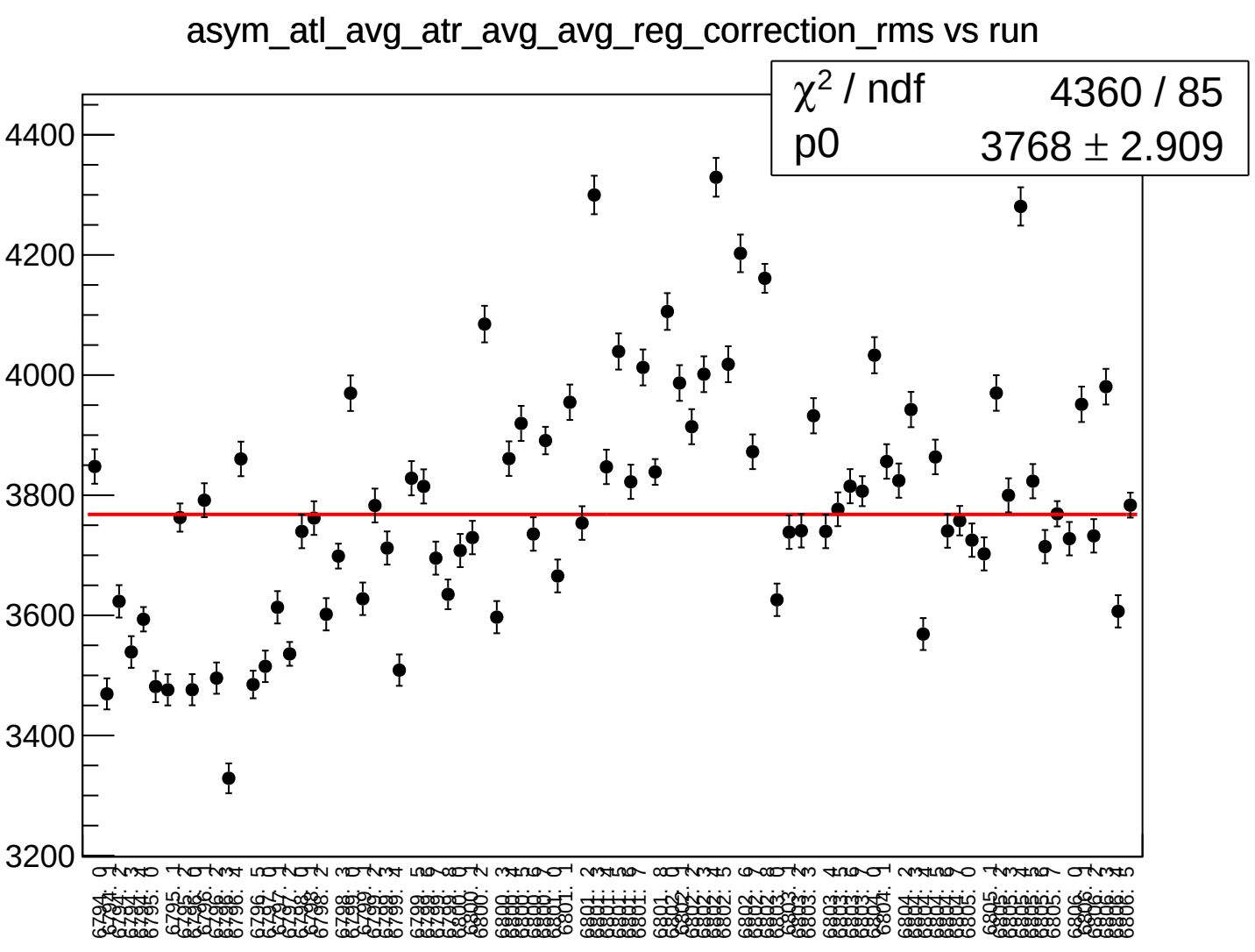

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.8 / 85
p0 303.4 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −9025
Std Dev 0
2
1
0
−1
−2
−3

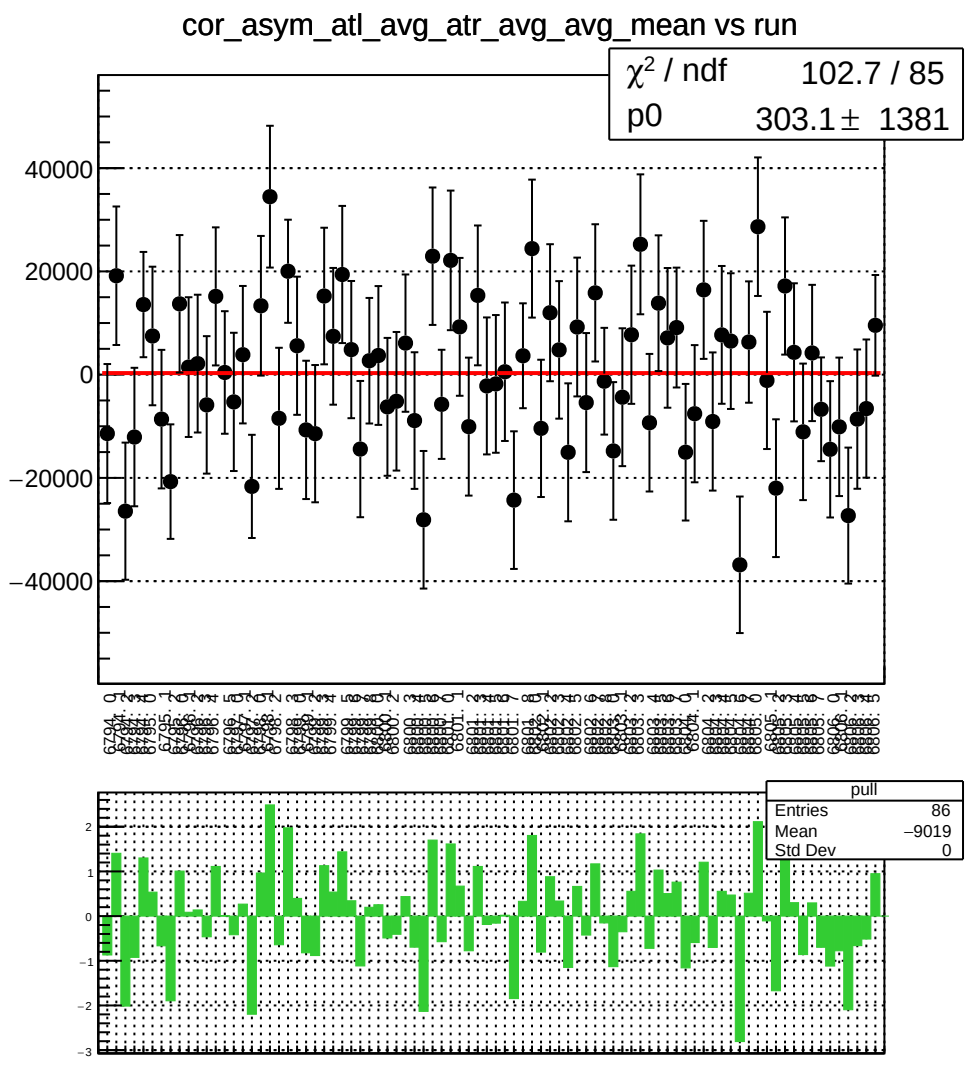

pull1D
Entries 86
Mean 0.0002034
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

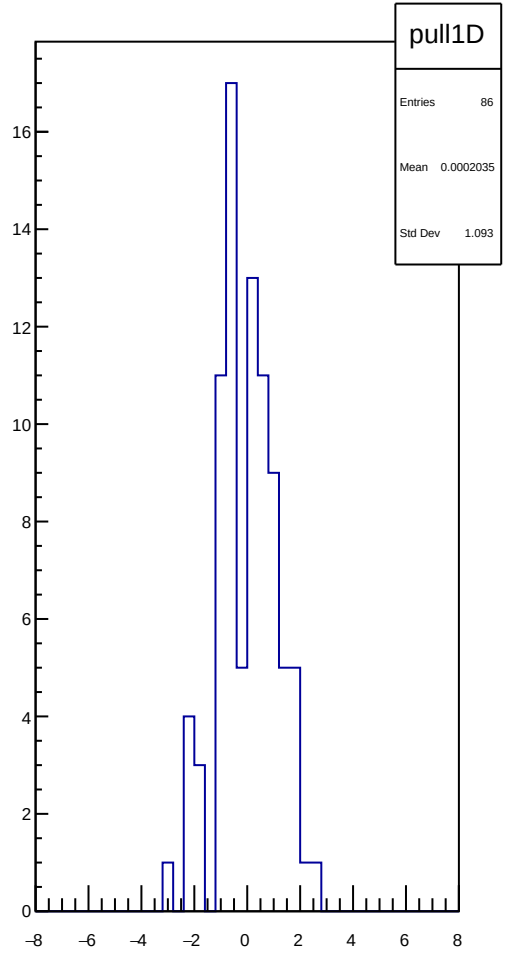

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 105.3 / 85
p0 1267 ± 0.9768
1310
1300
1290
1280
1270
1260
1250
1240

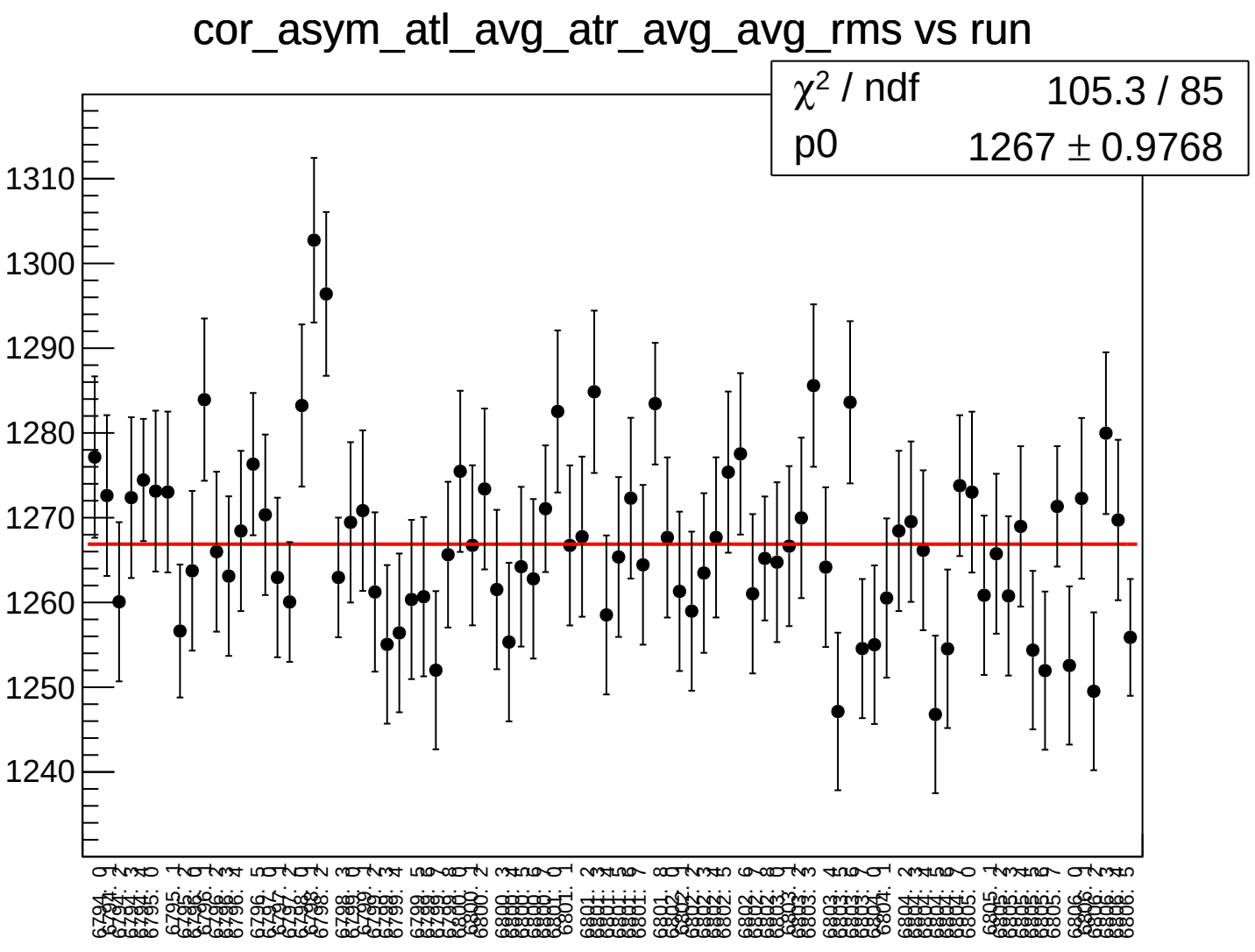

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.81 / 85
p0 −3440 ± 4114
100
50
0
−50
−100
−150
pull
Entries 86
Mean −86.28
Std Dev 0
3
2
1
0
−1
−2
−3

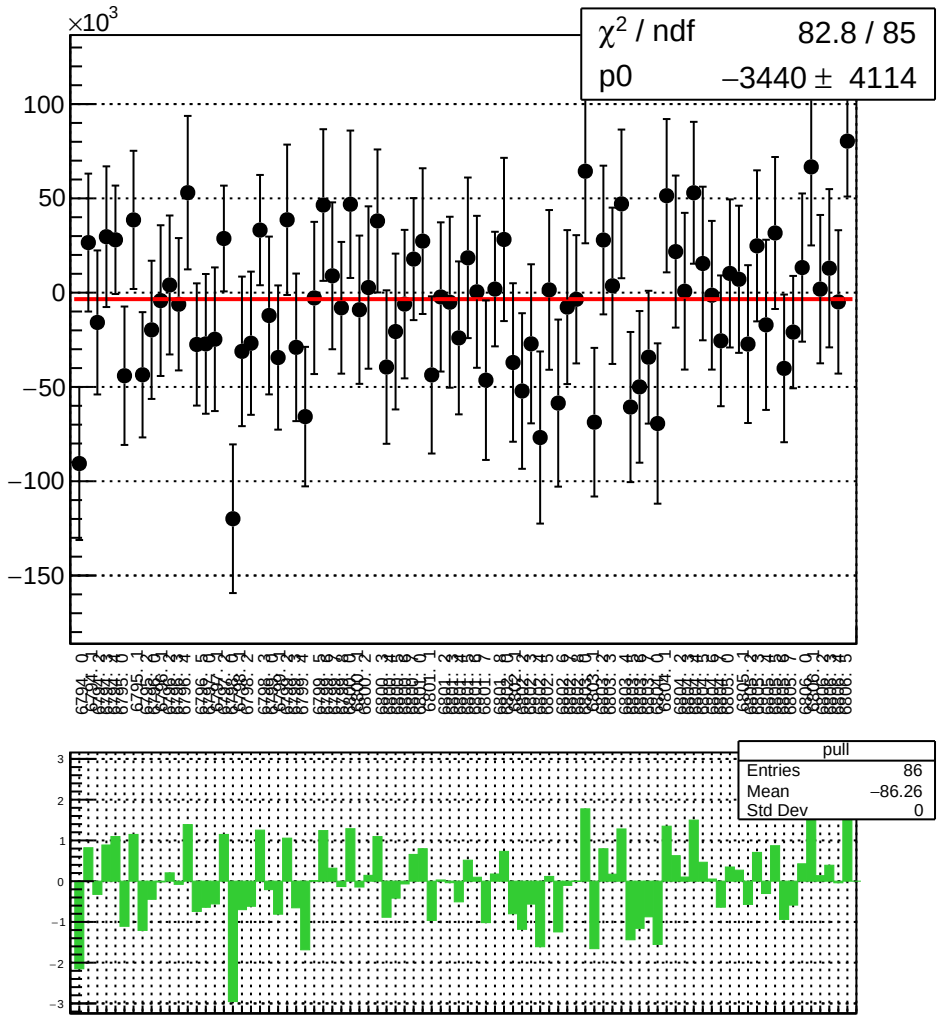

pull1D
Entries 86
Mean −0.02673
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

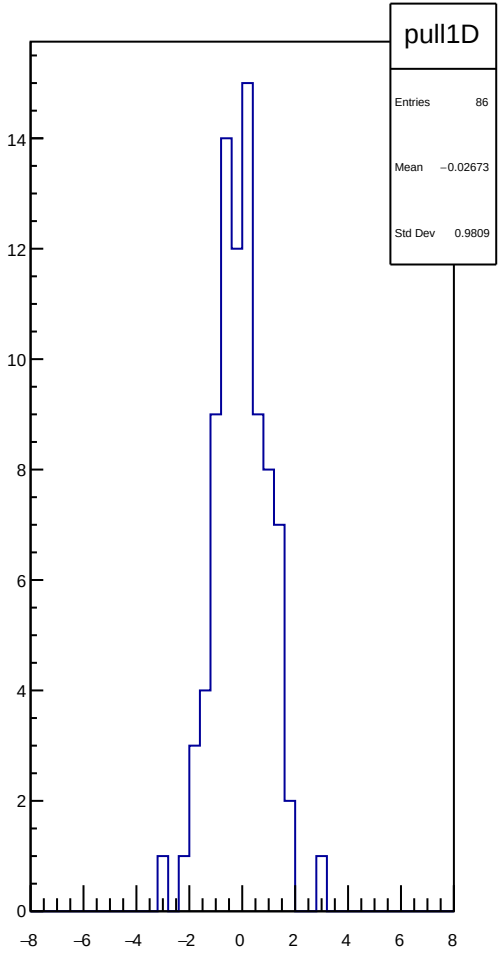

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 4360 / 85
p0 3768 ± 2.909
4400
4200
4000
3800
3600
3400
3200

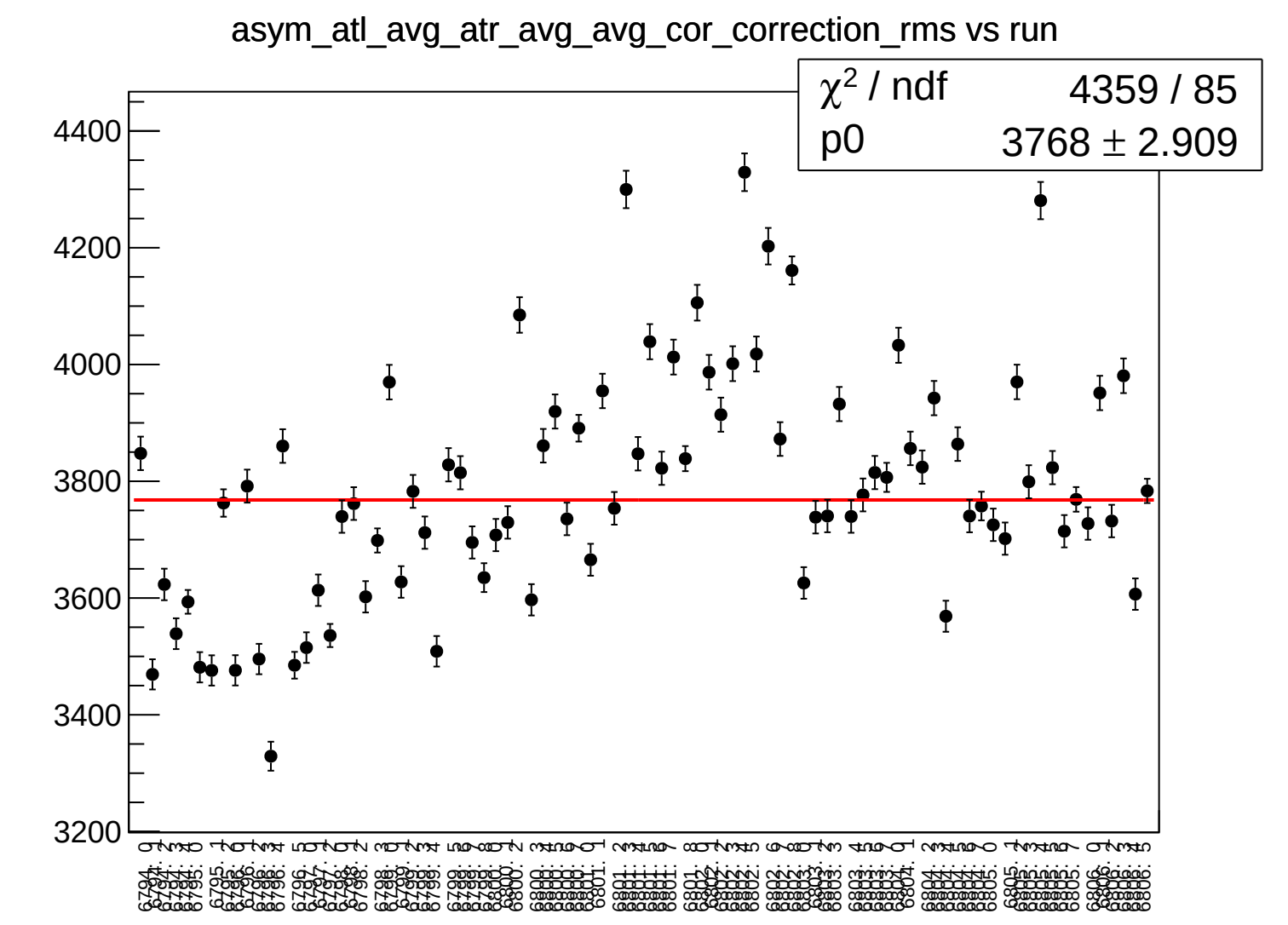

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.7 / 85
p0 303.1 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −9019
Std Dev 0
2
1
0
−1
−2
−3

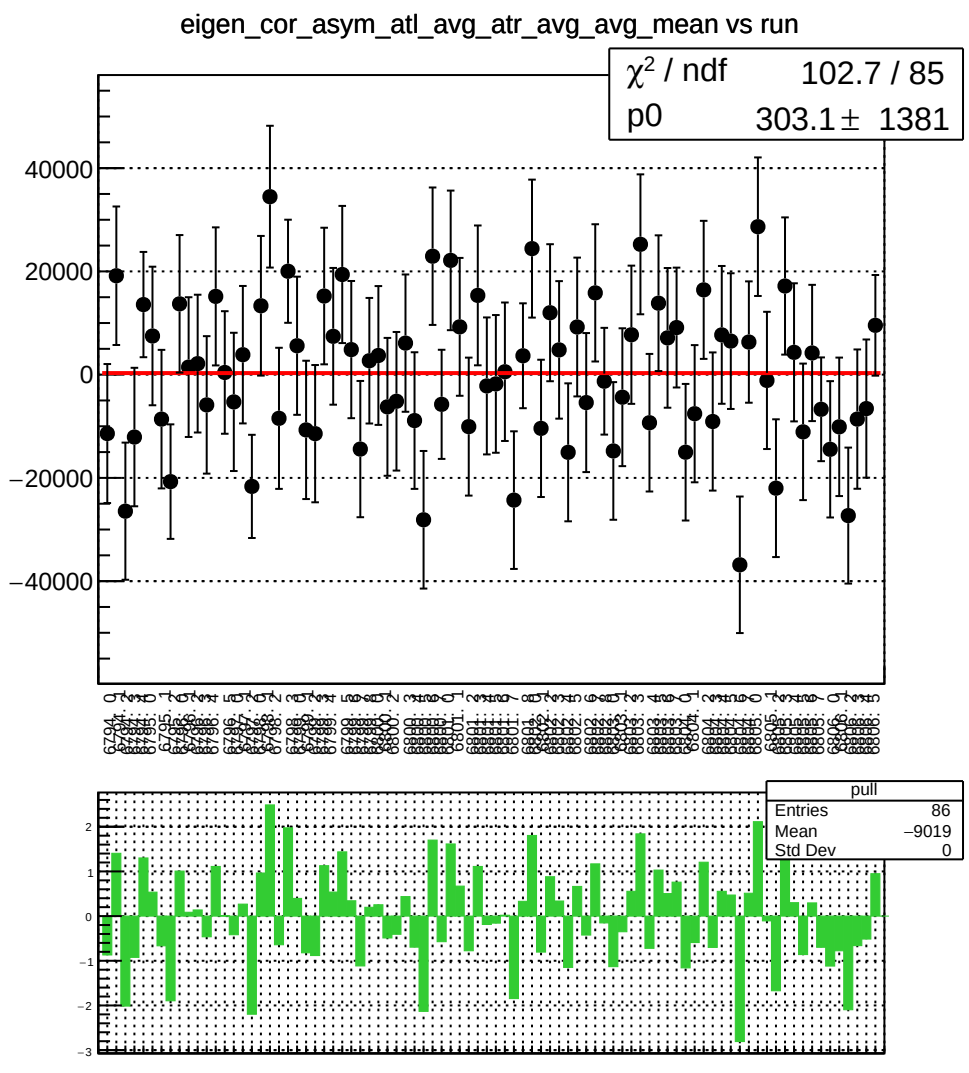

pull1D
Entries 86
Mean 0.0002035
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

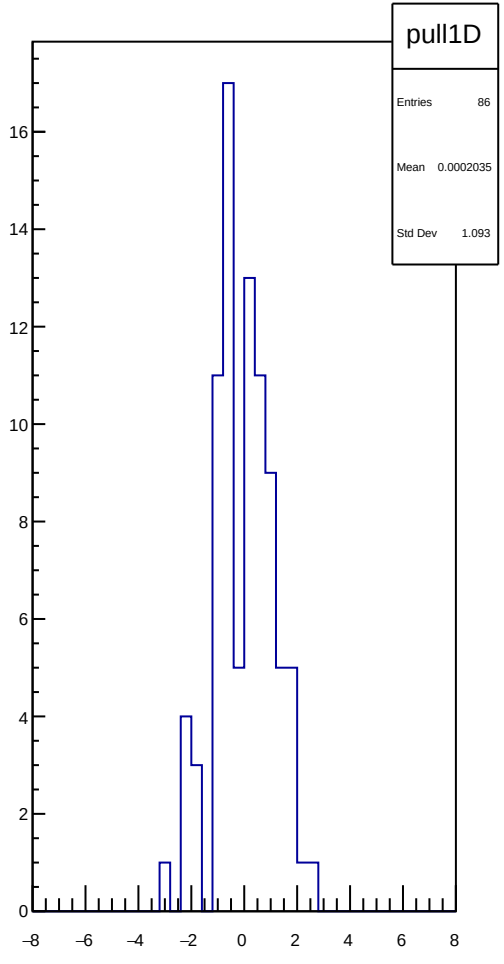

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 105.3 / 85
p0 1267 ± 0.9768
1310
1300
1290
1280
1270
1260
1250
1240

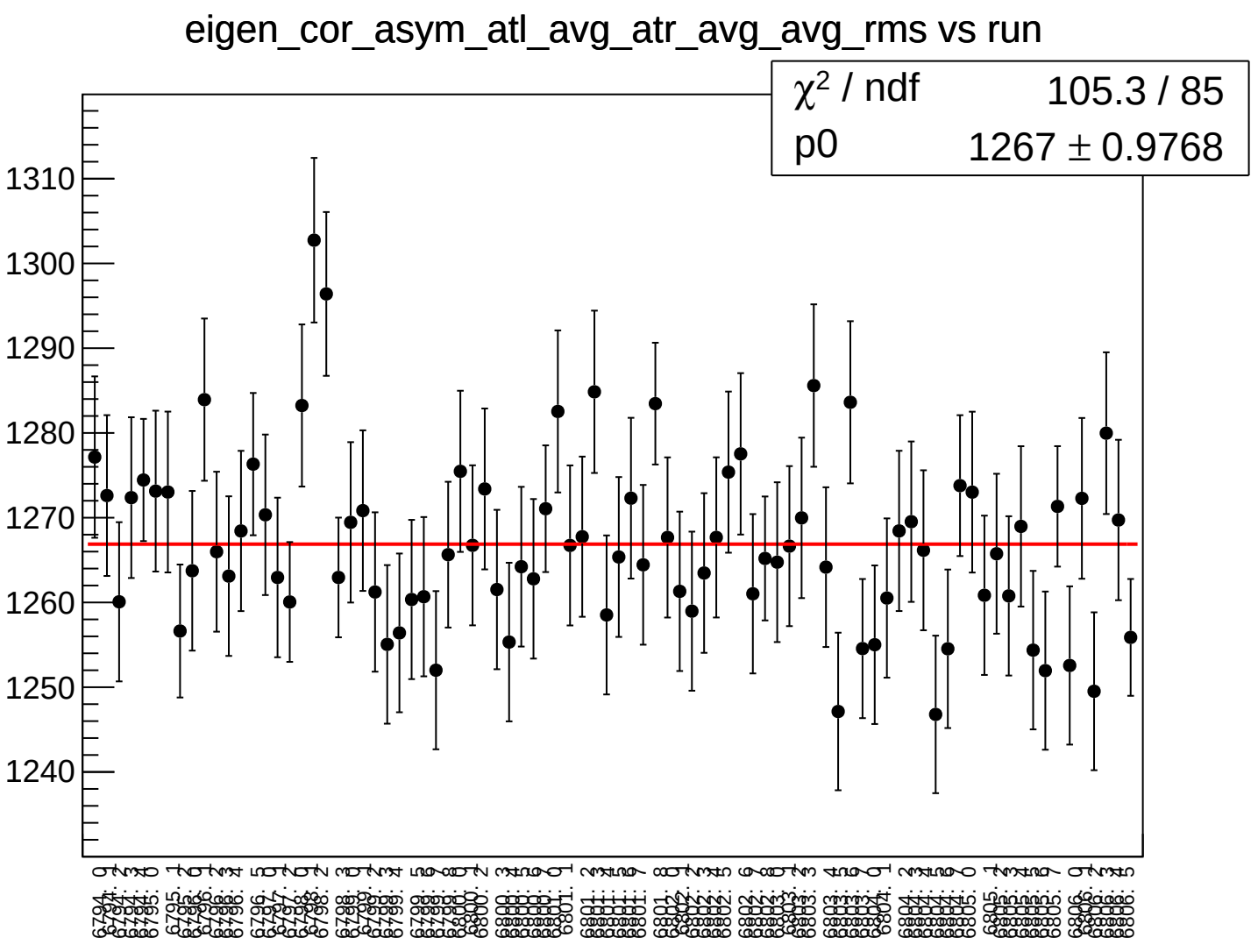

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.8 / 85
p0 −3440 ± 4114
100
50
0
−50
−100
−150
pull
Entries 86
Mean −86.26
Std Dev 0
3
2
1
0
−1
−2
−3

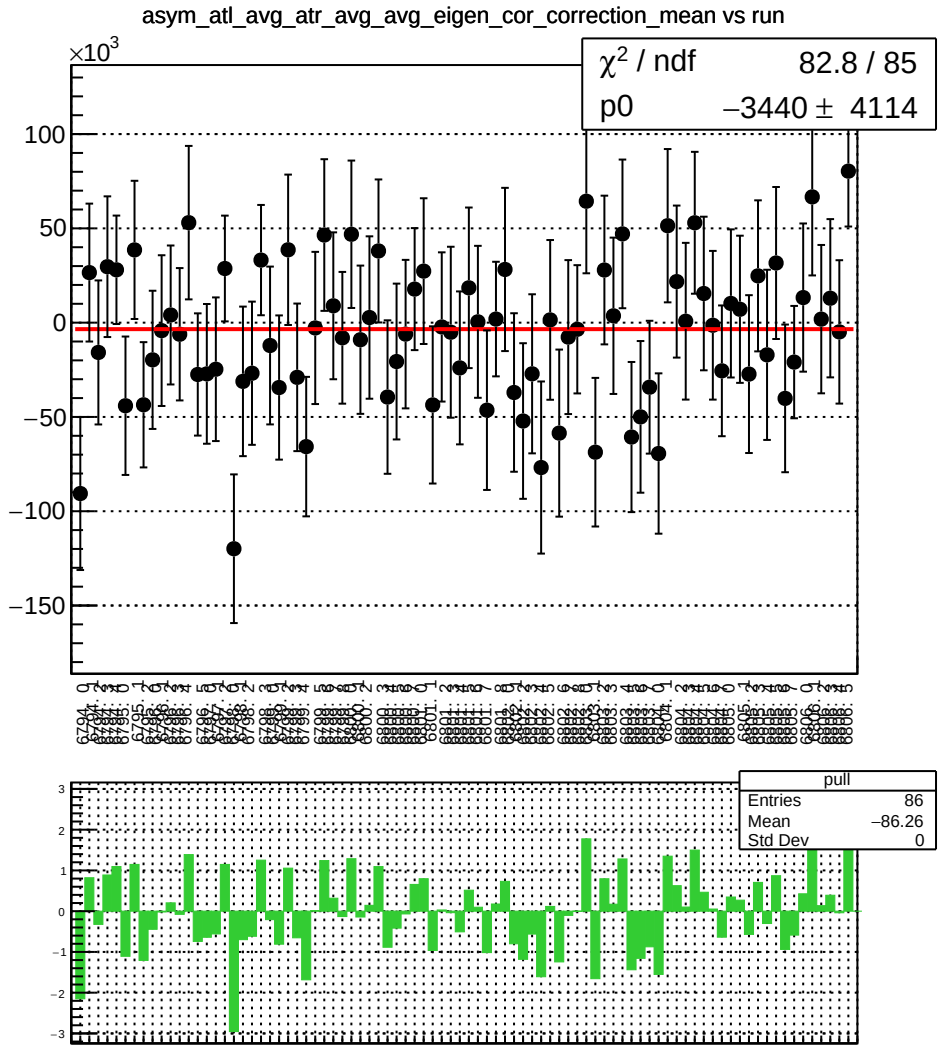

pull1D
Entries 86
Mean −0.02673
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

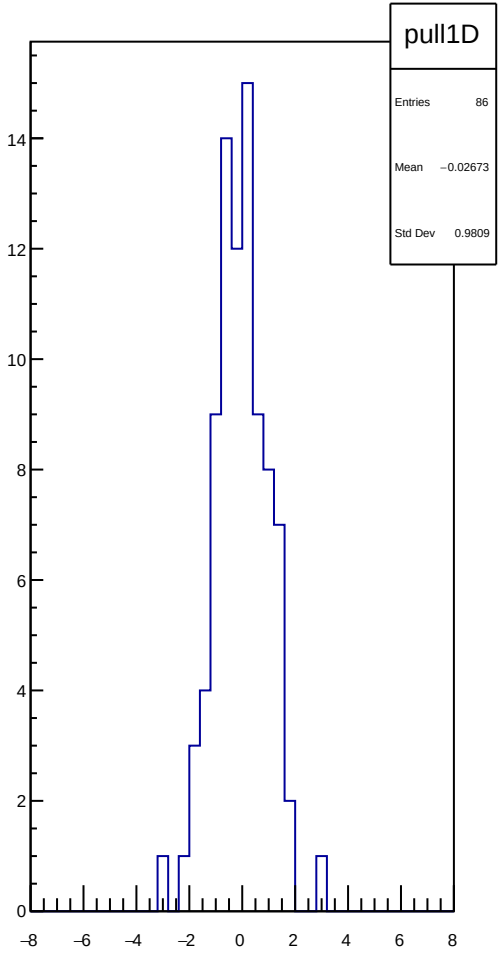

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 4359 / 85
p0 3768 ± 2.909
4400
4200
4000
3800
3600
3400
3200

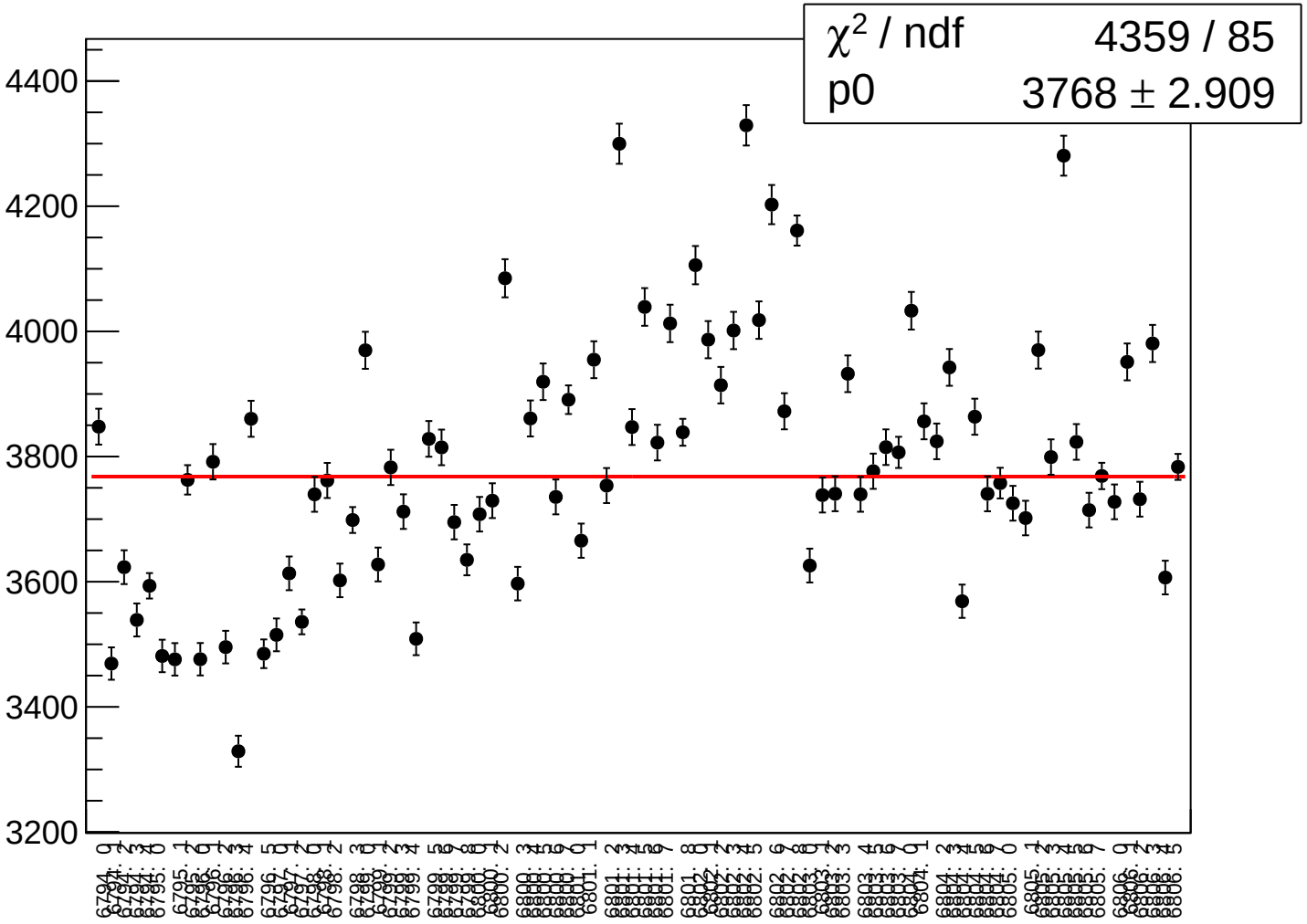

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102.7 / 85
p0 303.1 ± 1381
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −9019
Std Dev 0
2
1
0
−1
−2
−3

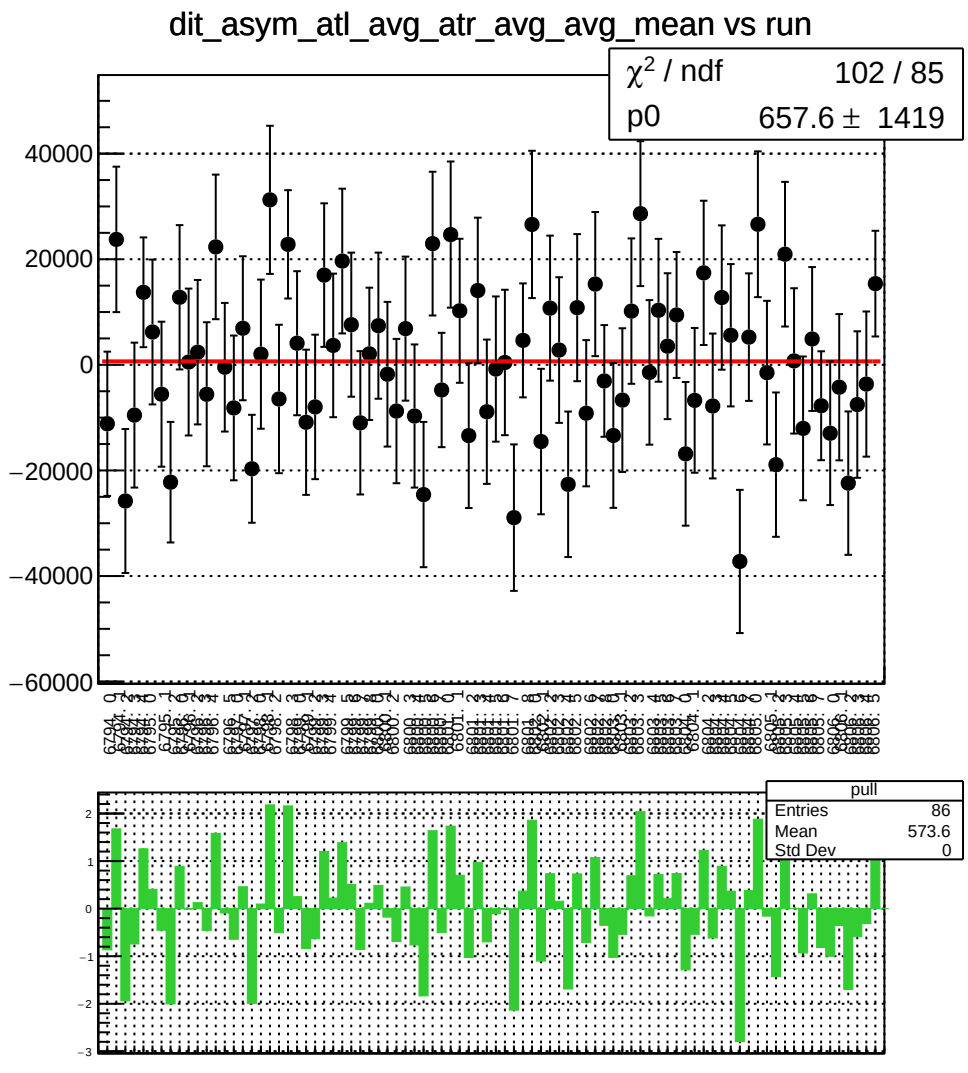

pull1D
Entries 86
Mean 0.0002035
Std Dev 1.093
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

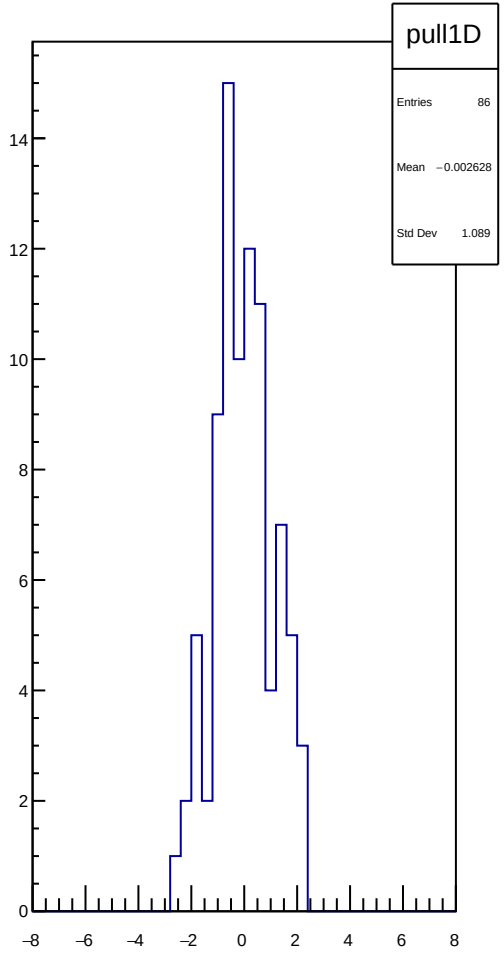

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 105.3 / 85
p0 1267 ± 0.9768
1310
1300
1290
1280
1270
1260
1250
1240

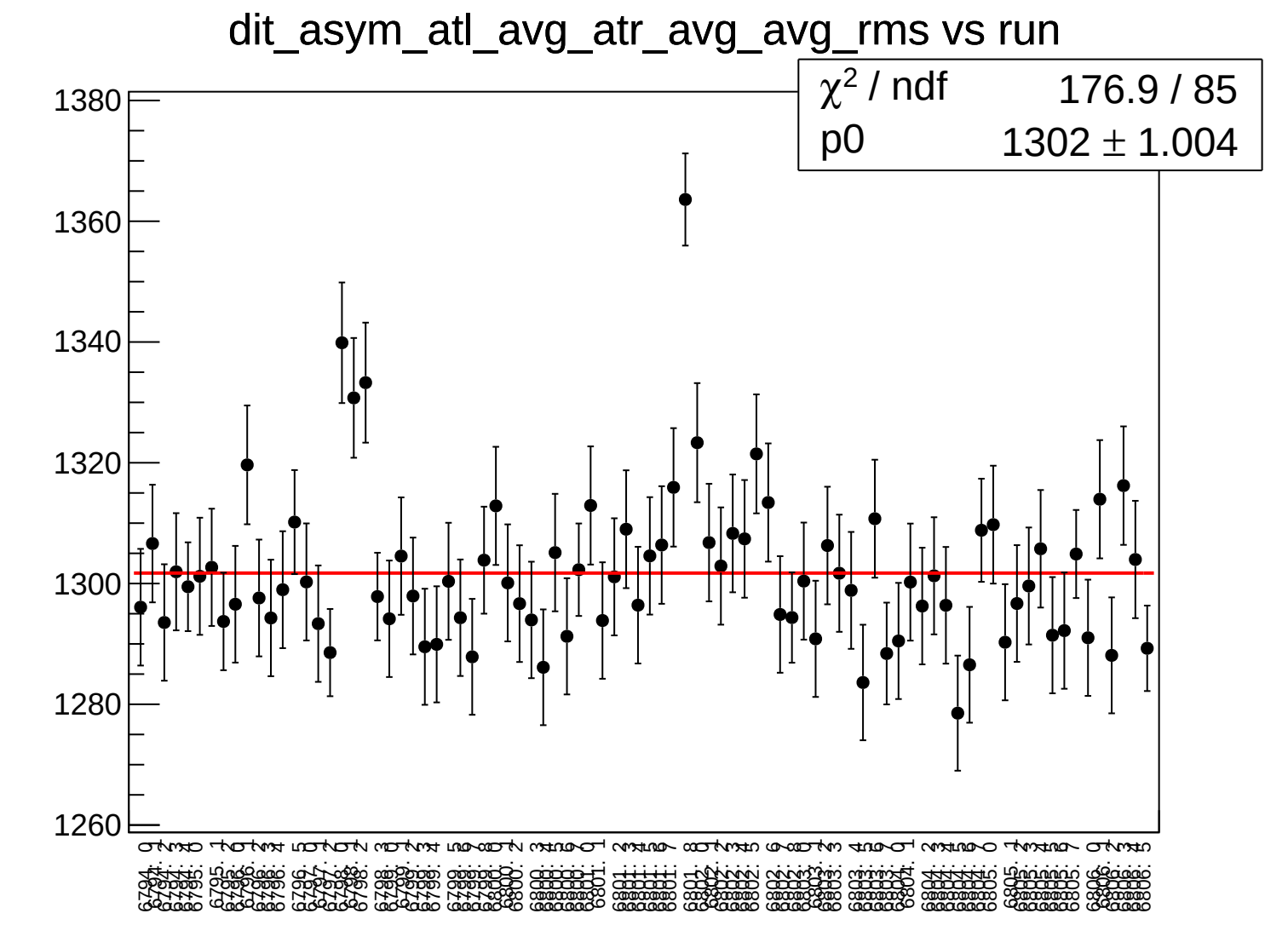

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.8 / 85
p0 −3440 ± 4114
100
50
0
−50
−100
−150
pull
Entries 86
Mean −86.26
Std Dev 0
3
2
1
0
−1
−2
−3

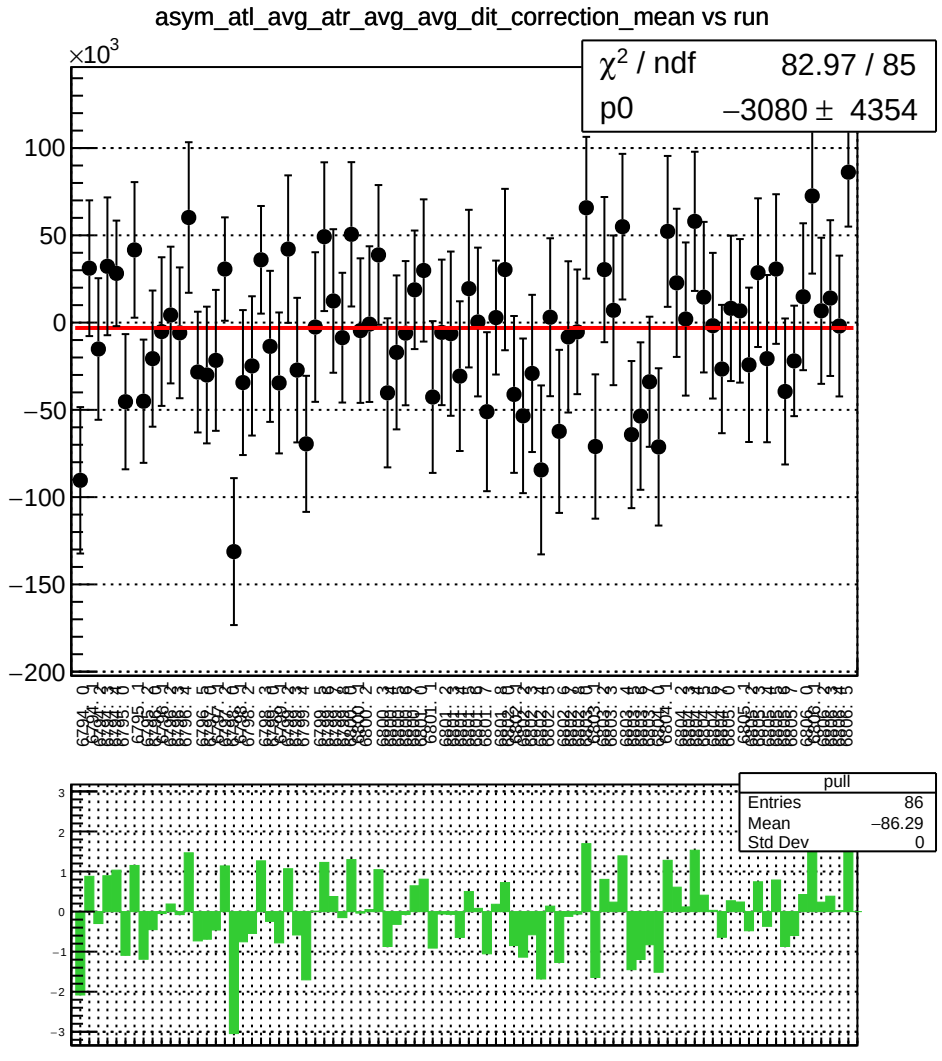

pull1D
Entries 86
Mean −0.02673
Std Dev 0.9809
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

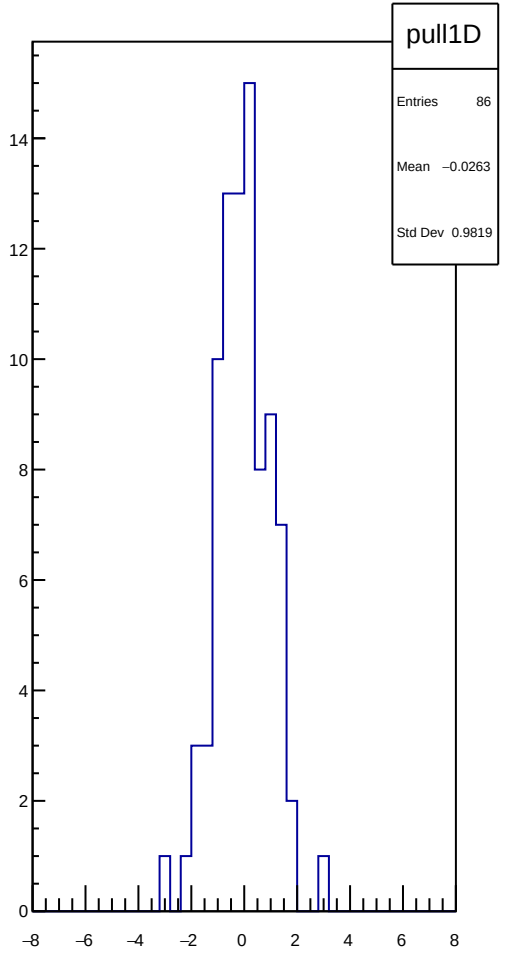

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4359 / 85
p0 3768 ± 2.909
4400
4200
4000
3800
3600
3400
3200

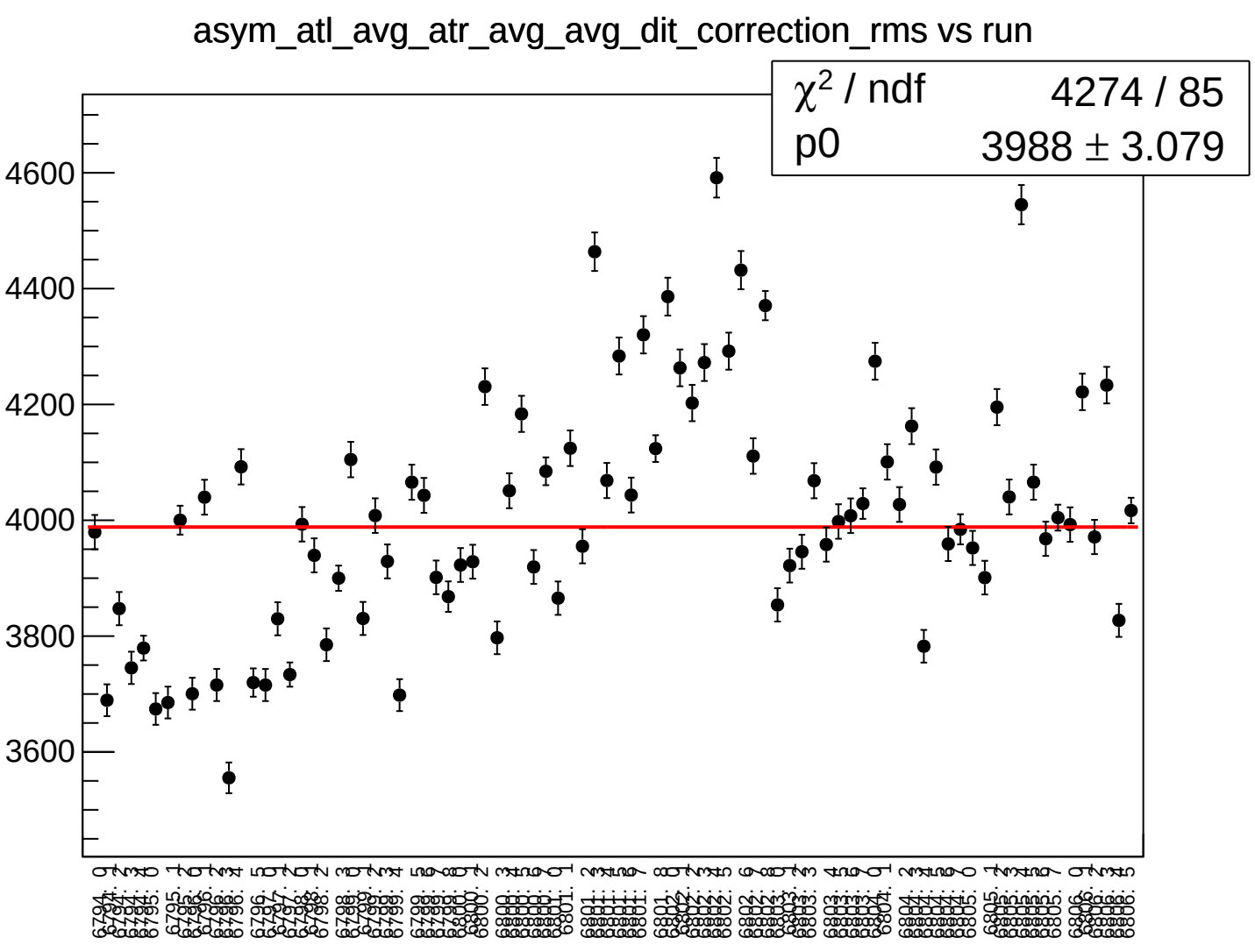

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102 / 85
p0 657.6 ± 1419
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 573.6
Std Dev 0
2
1
0
−1
−2
−3

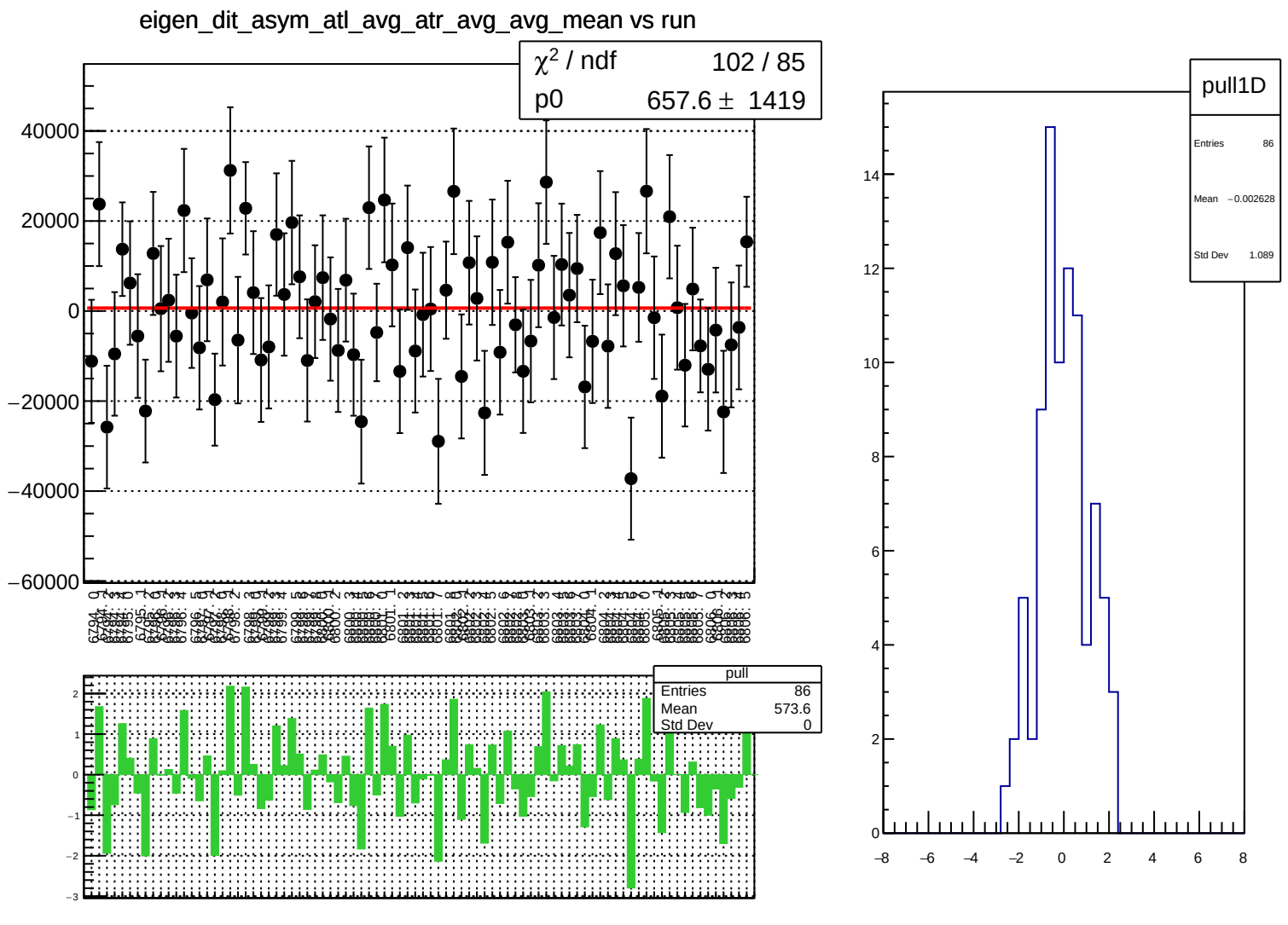

pull1D
Entries 86
Mean −0.002628
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

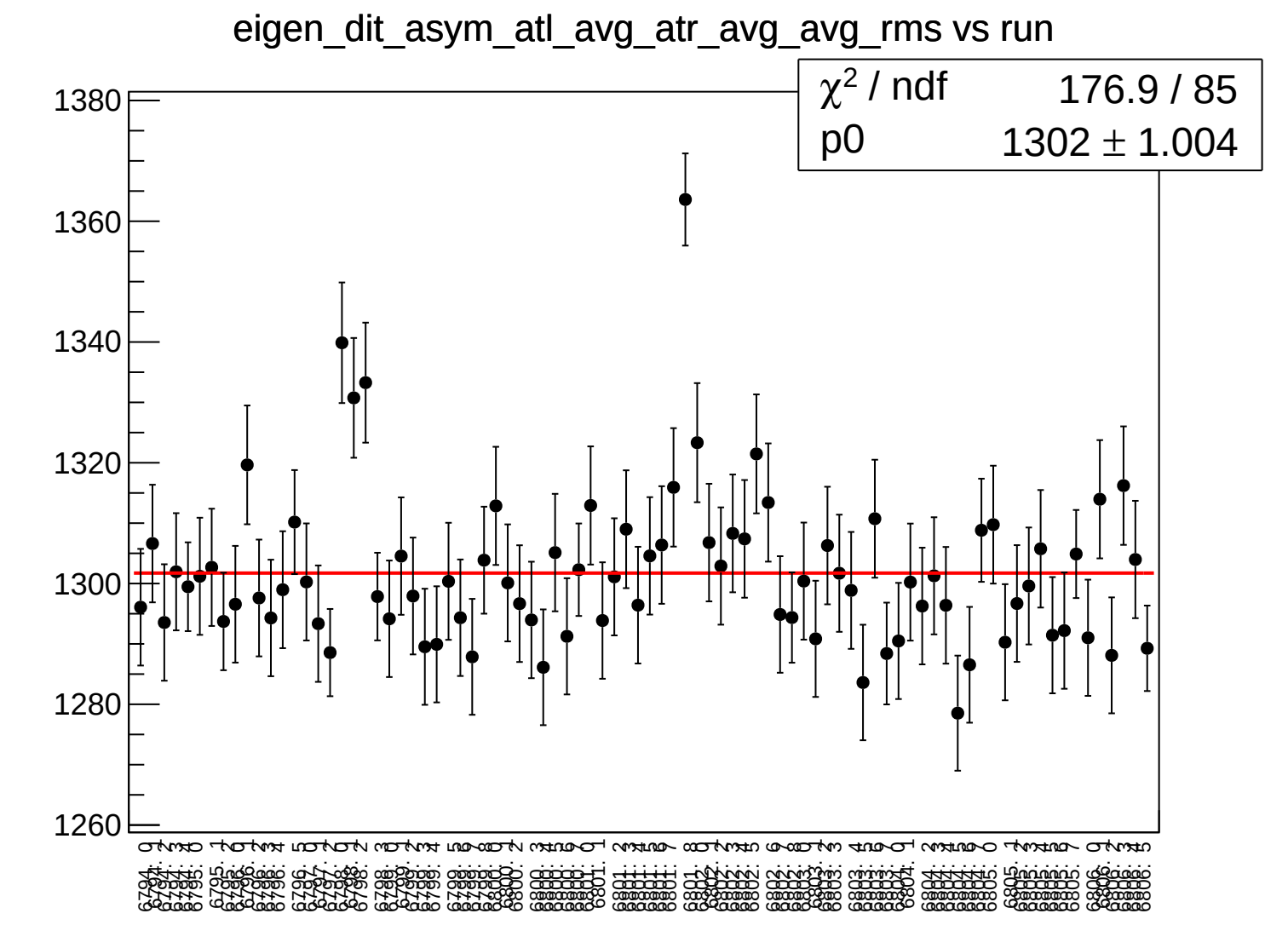

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 176.9 / 85
p0 1302 ± 1.004
1380
1360
1340
1320
1300
1280
1260

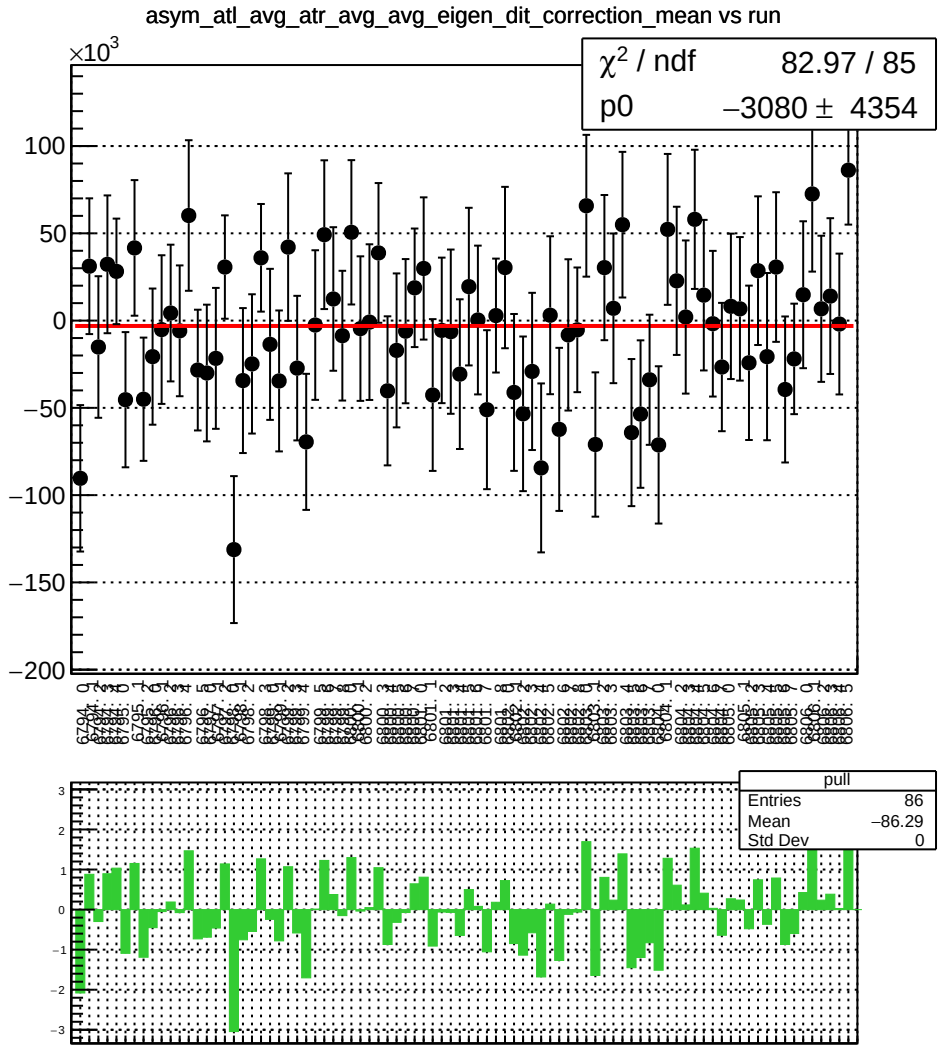

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.97 / 85
p0 −3080 ± 4354
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −86.29
Std Dev 0

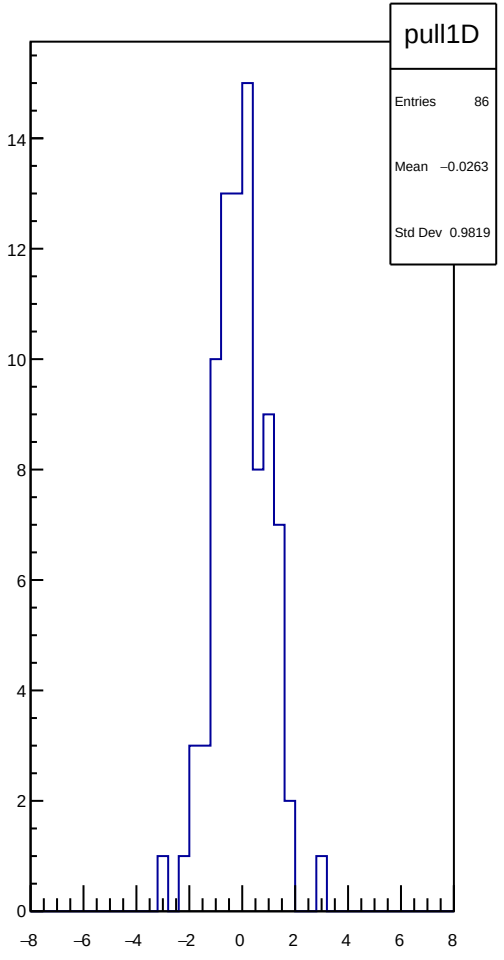

pull1D
Entries 86
Mean −0.0263
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

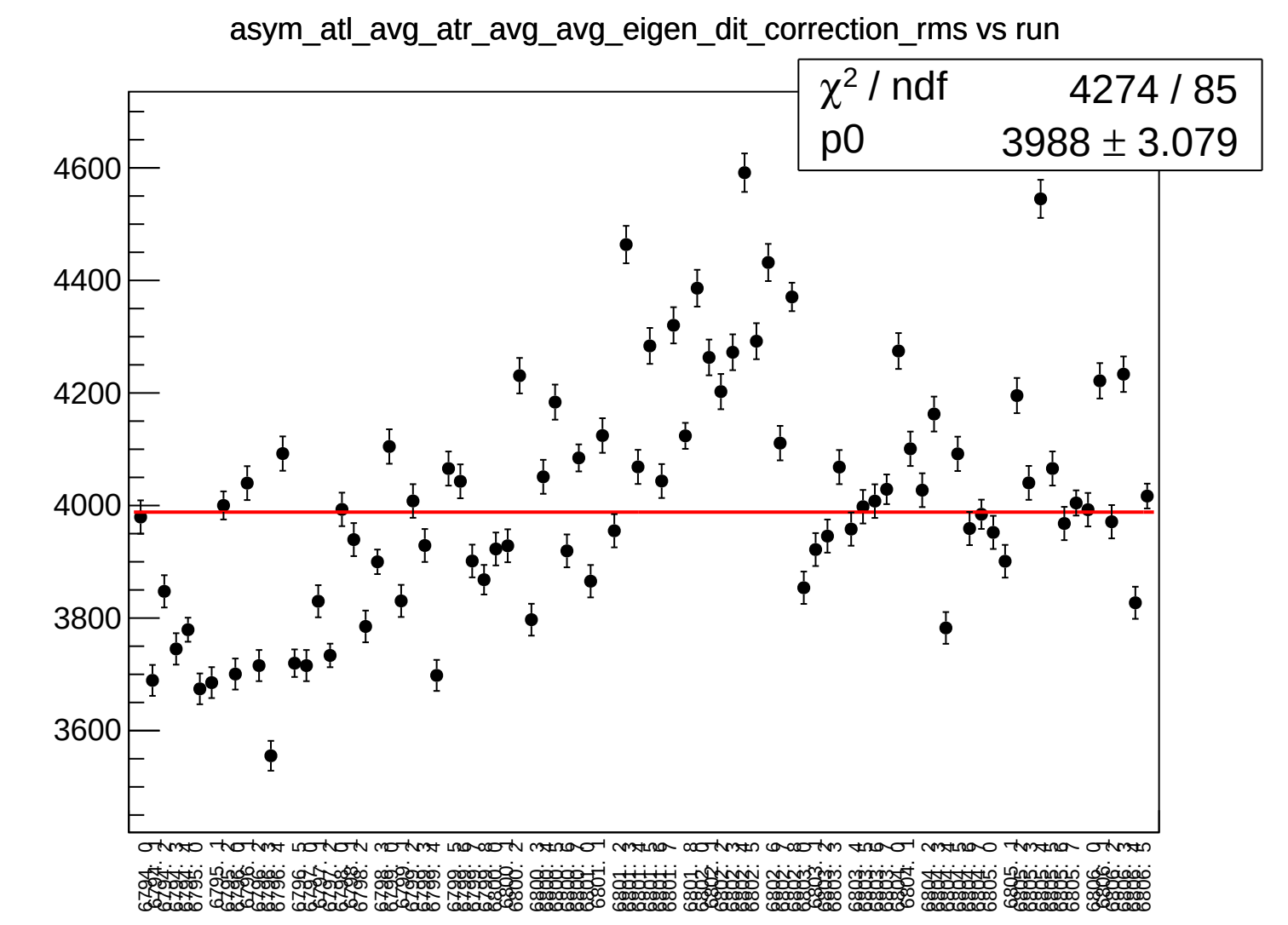

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 4274 / 85
p0 3988 ± 3.079
4600
4400
4200
4000
3800
3600

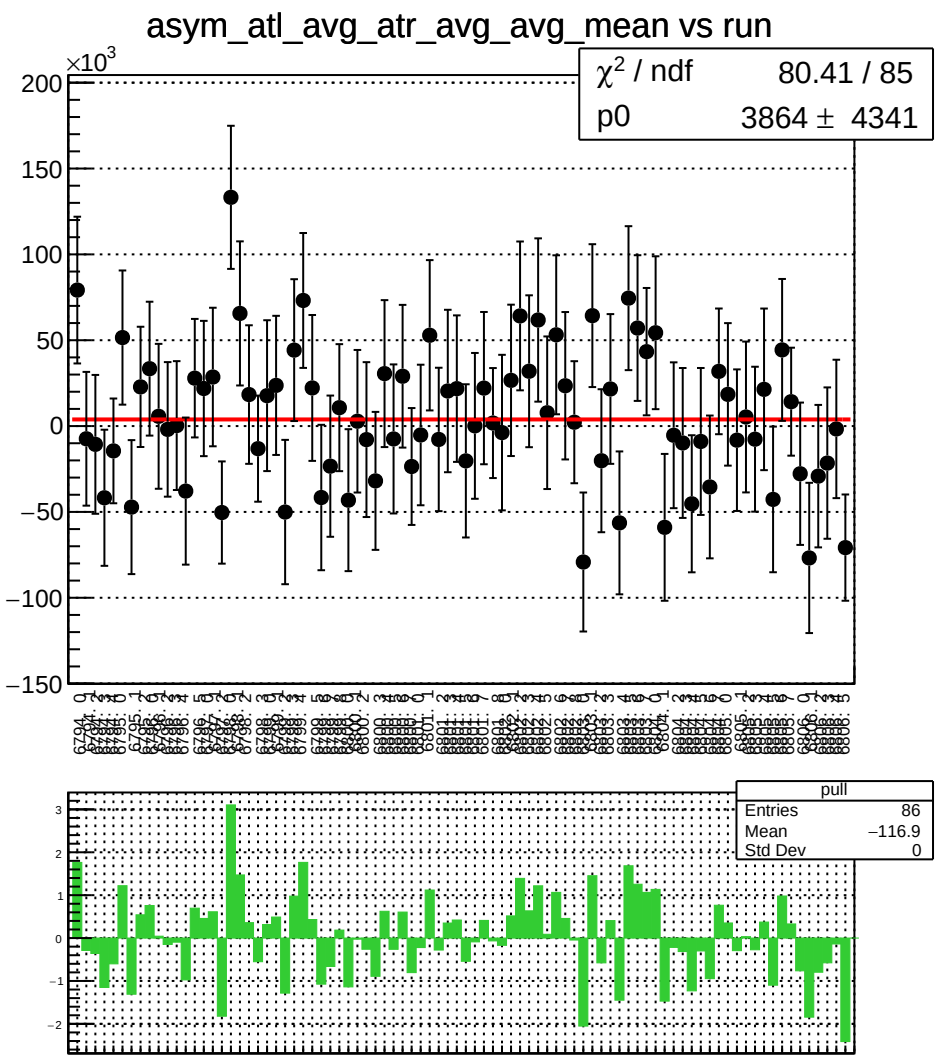

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 102 / 85
p0 657.6 ± 1419
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 573.6
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.002628
Std Dev 1.089
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

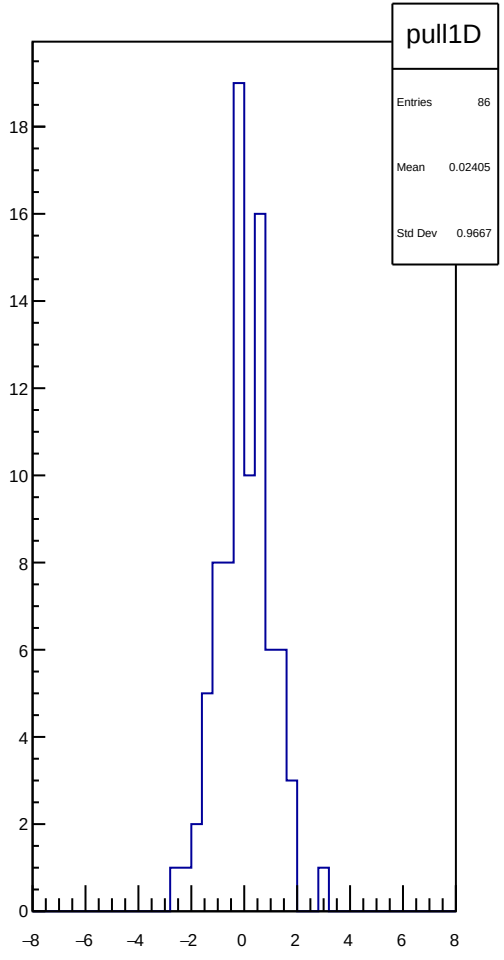

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 176.9 / 85
p0 1302 ± 1.004
1380
1360
1340
1320
1300
1280
1260

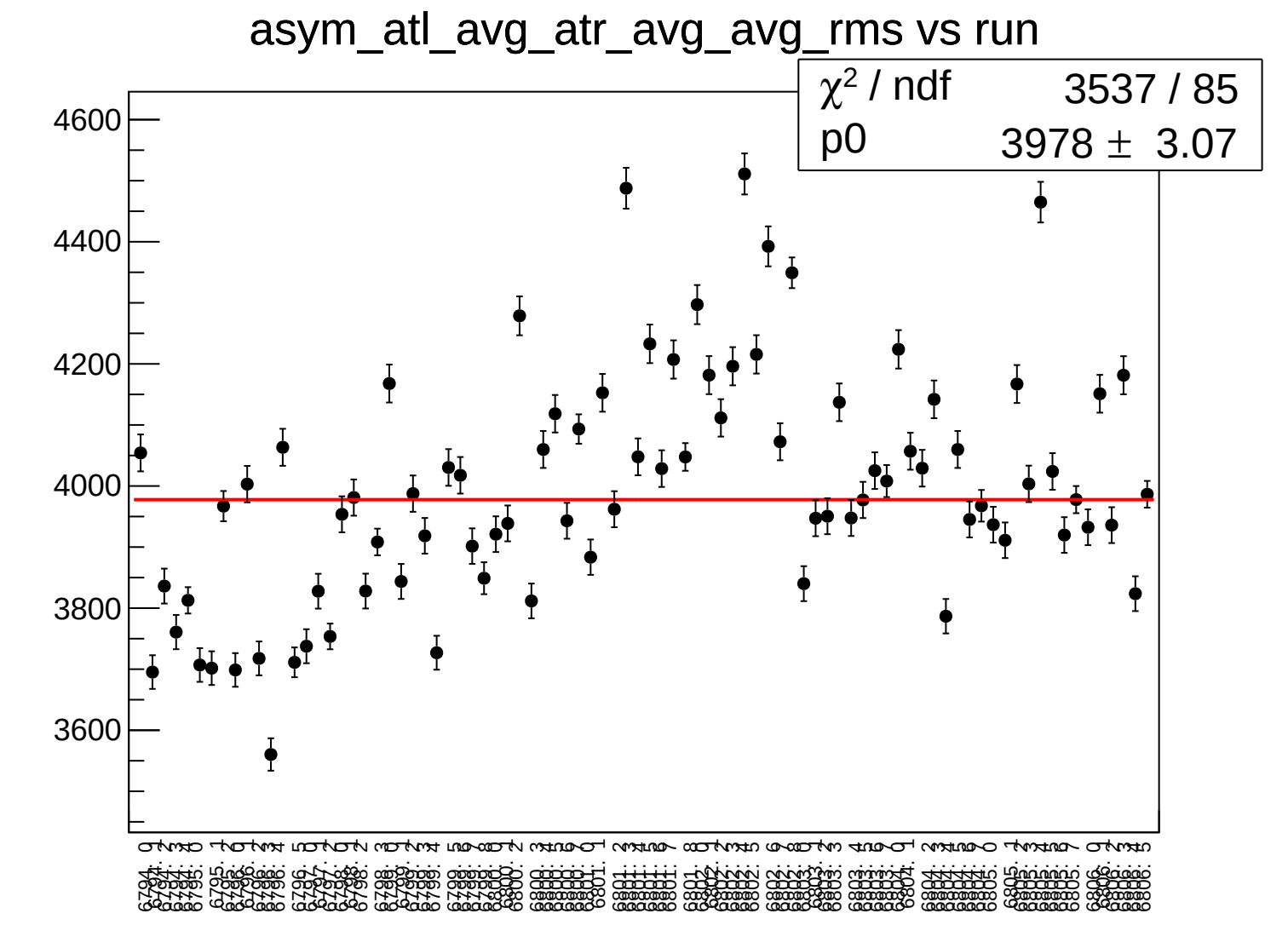

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.97 / 85
p0 −3080 ± 4354
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −86.29
Std Dev 0
3
2
1
0
−1
−2
−3

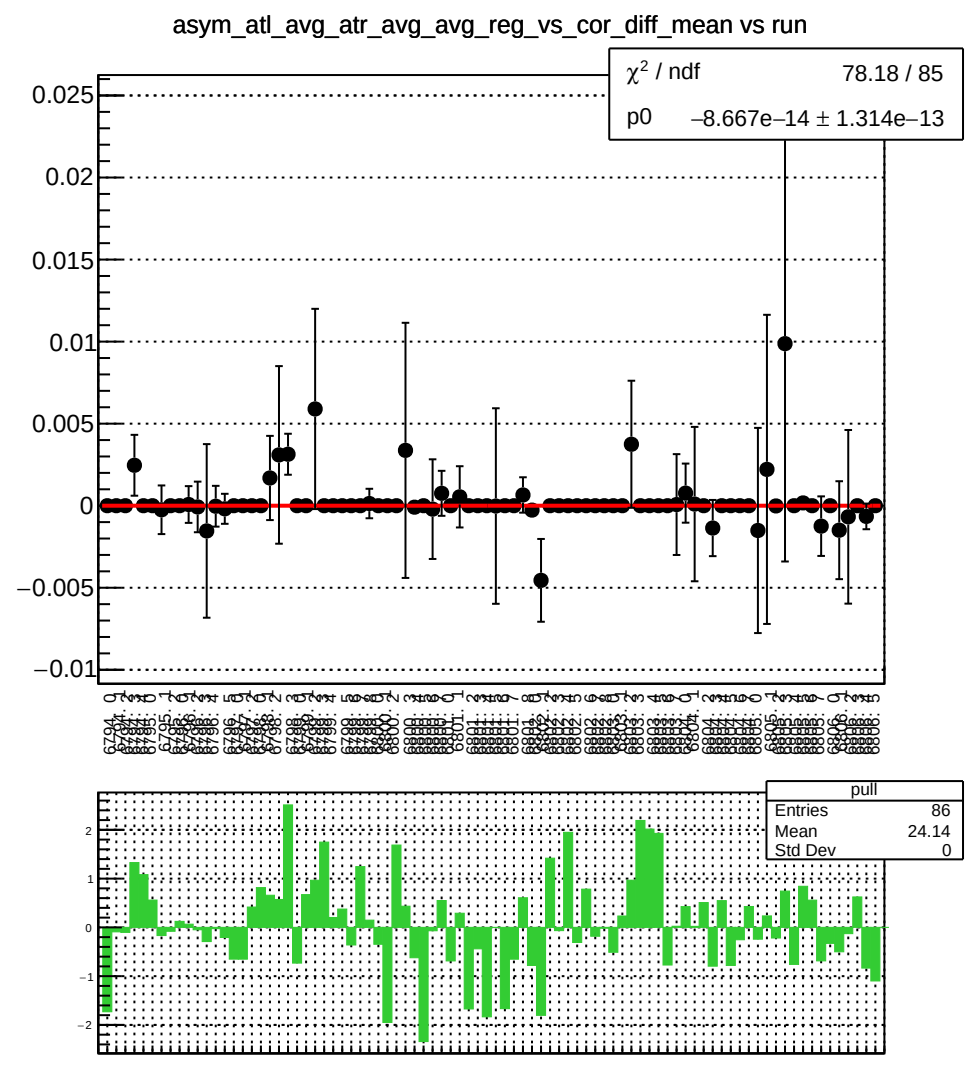

pull1D
Entries 86
Mean −0.0263
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

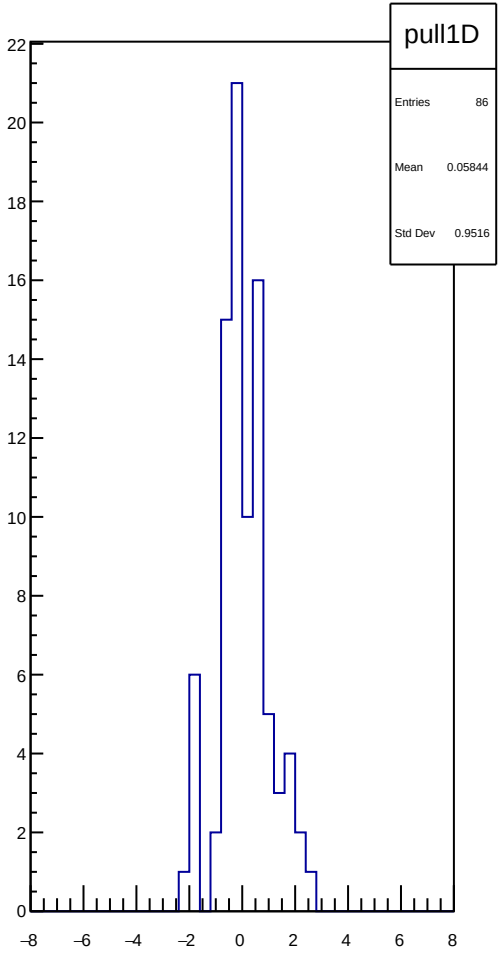

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4274 / 85
p0 3988 ± 3.079
4600
4400
4200
4000
3800
3600

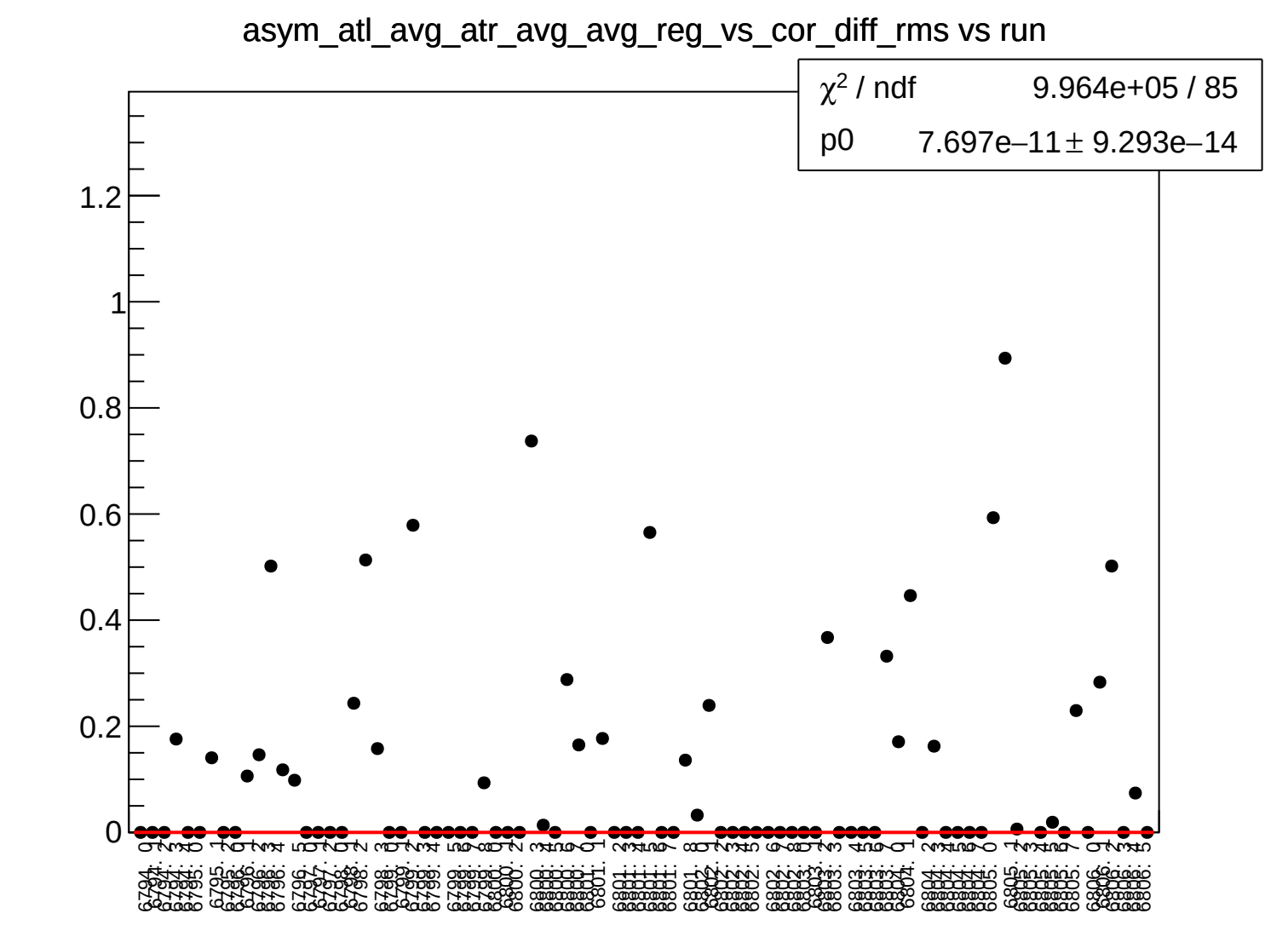

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 80.41 / 85
p0 3864 ± 4341
pull
Entries 86
Mean −116.9
Std Dev 0

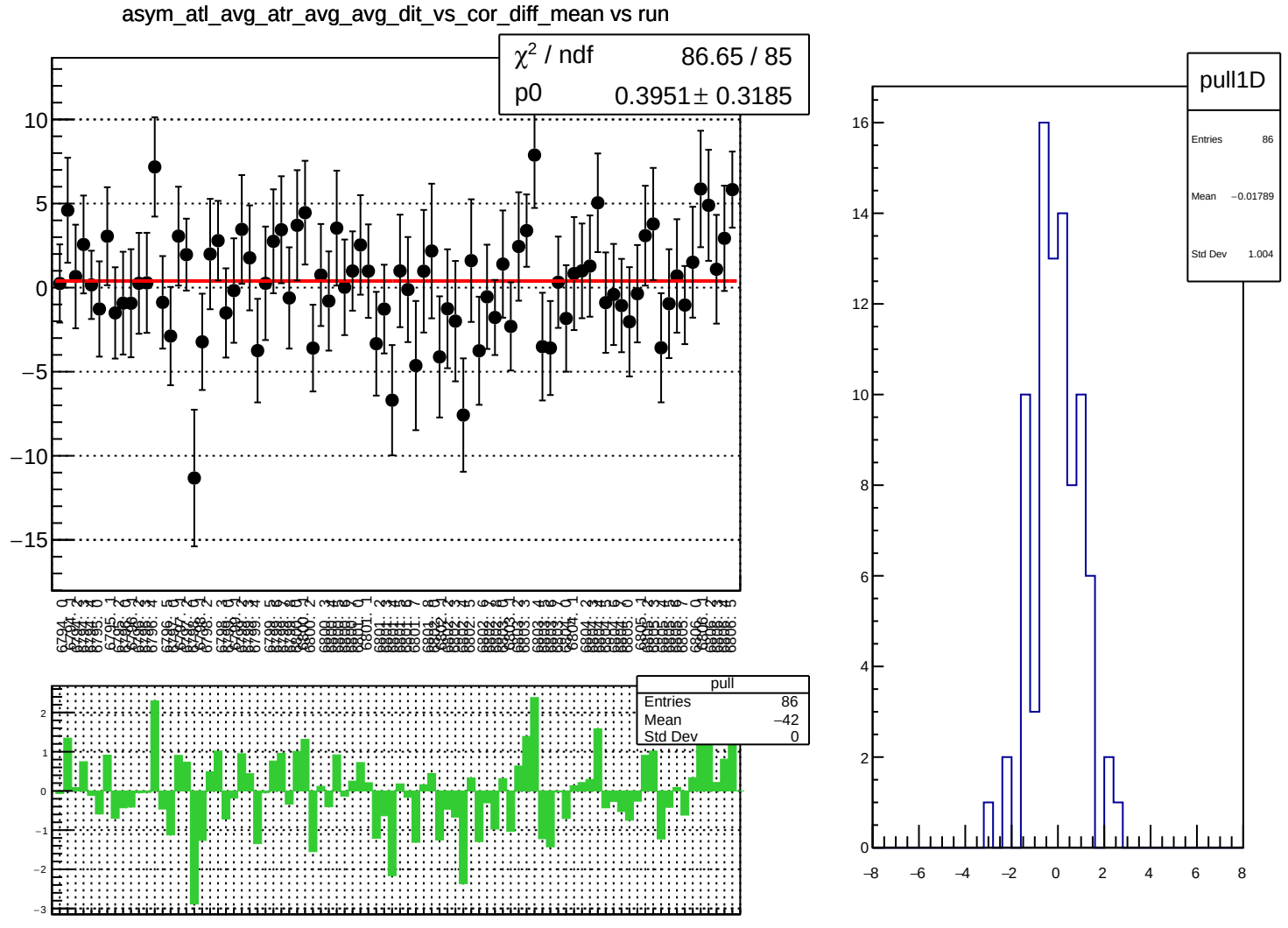

pull1D
Entries 86
Mean 0.02405
Std Dev 0.9667

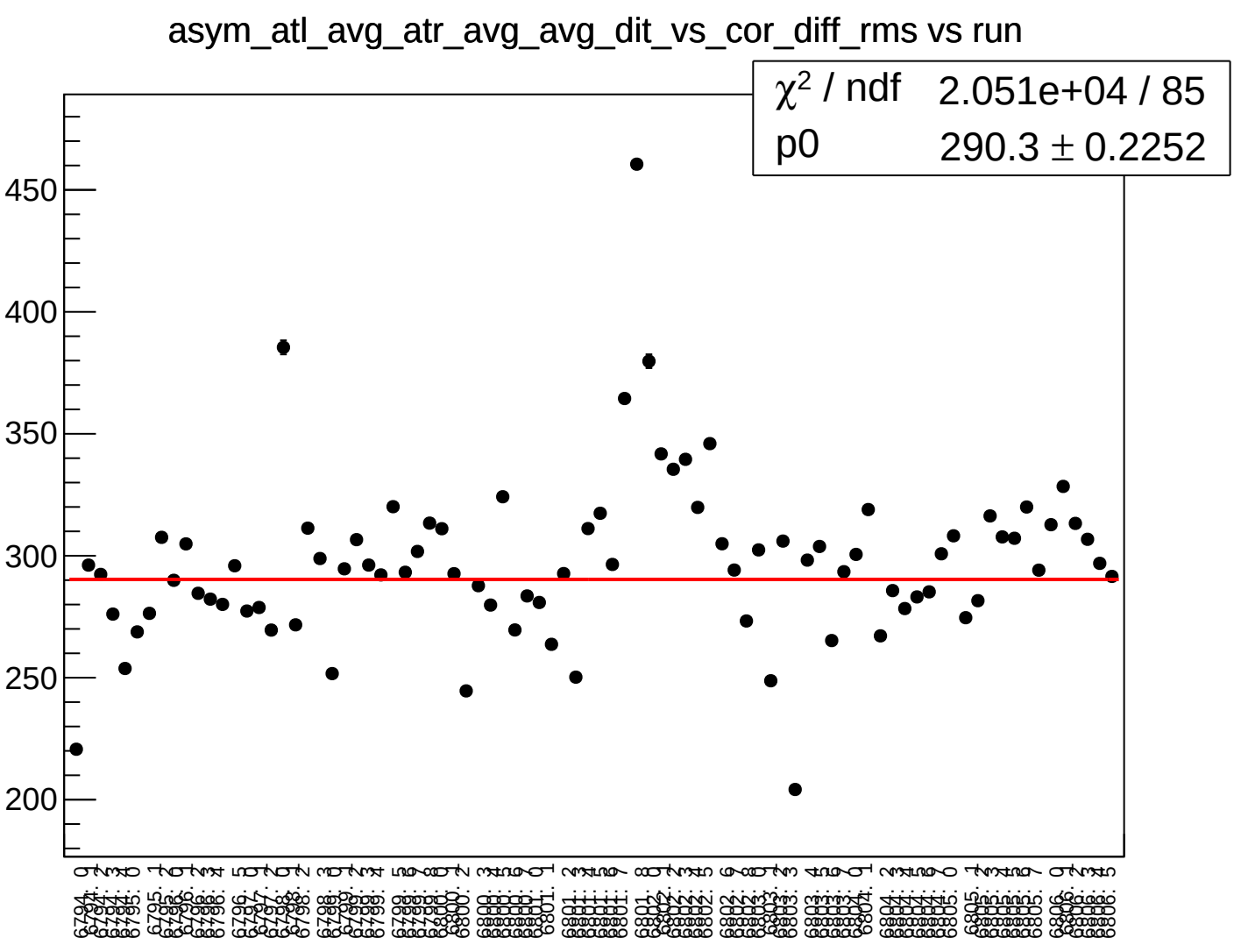

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3537 / 85
p0 3978 ± 3.07
4600
4400
4200
4000
3800
3600

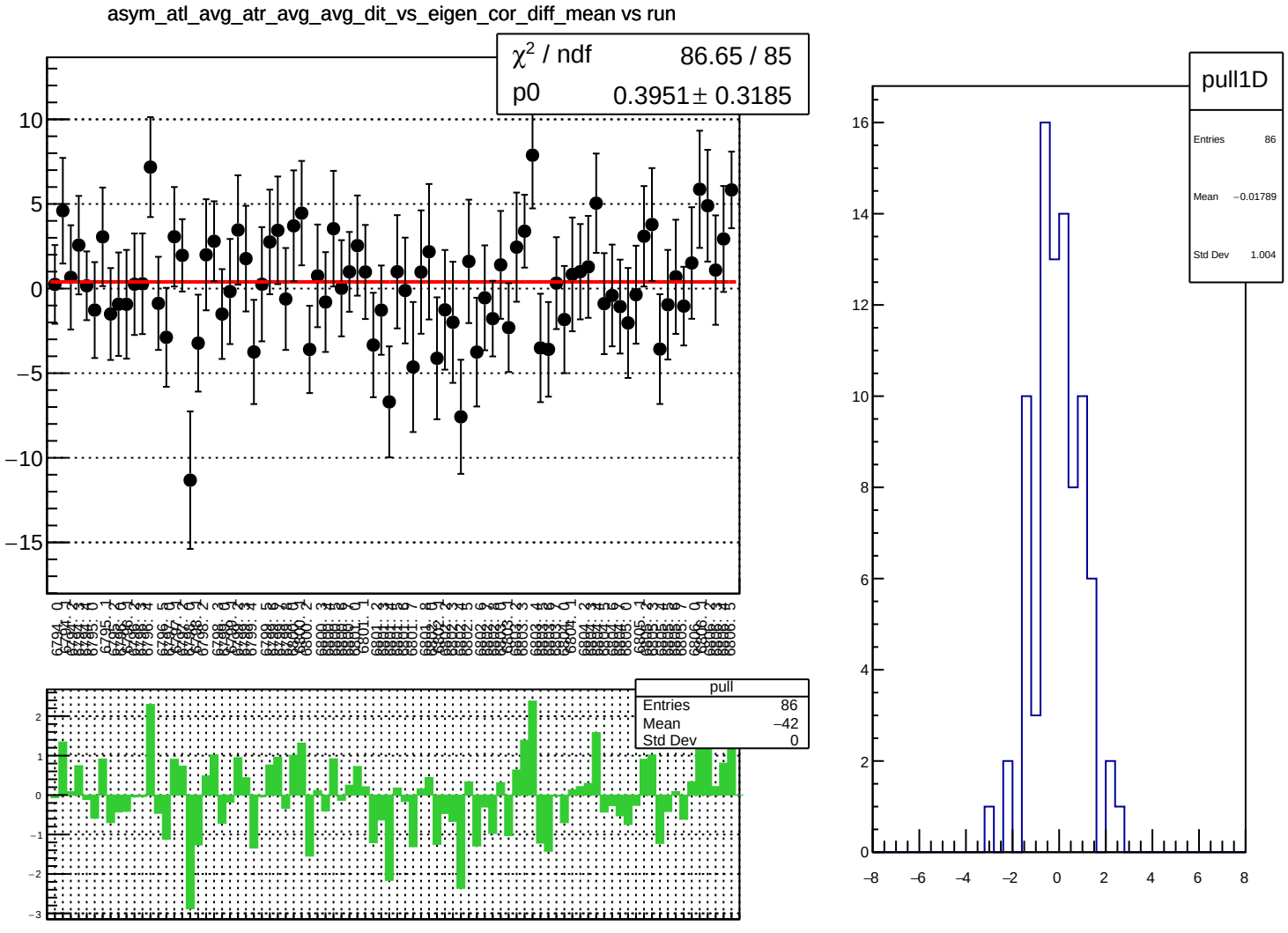

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.18 / 85
p0 −8.667e−14 ± 1.314e−13
pull
Entries 86
Mean 24.14
Std Dev 0

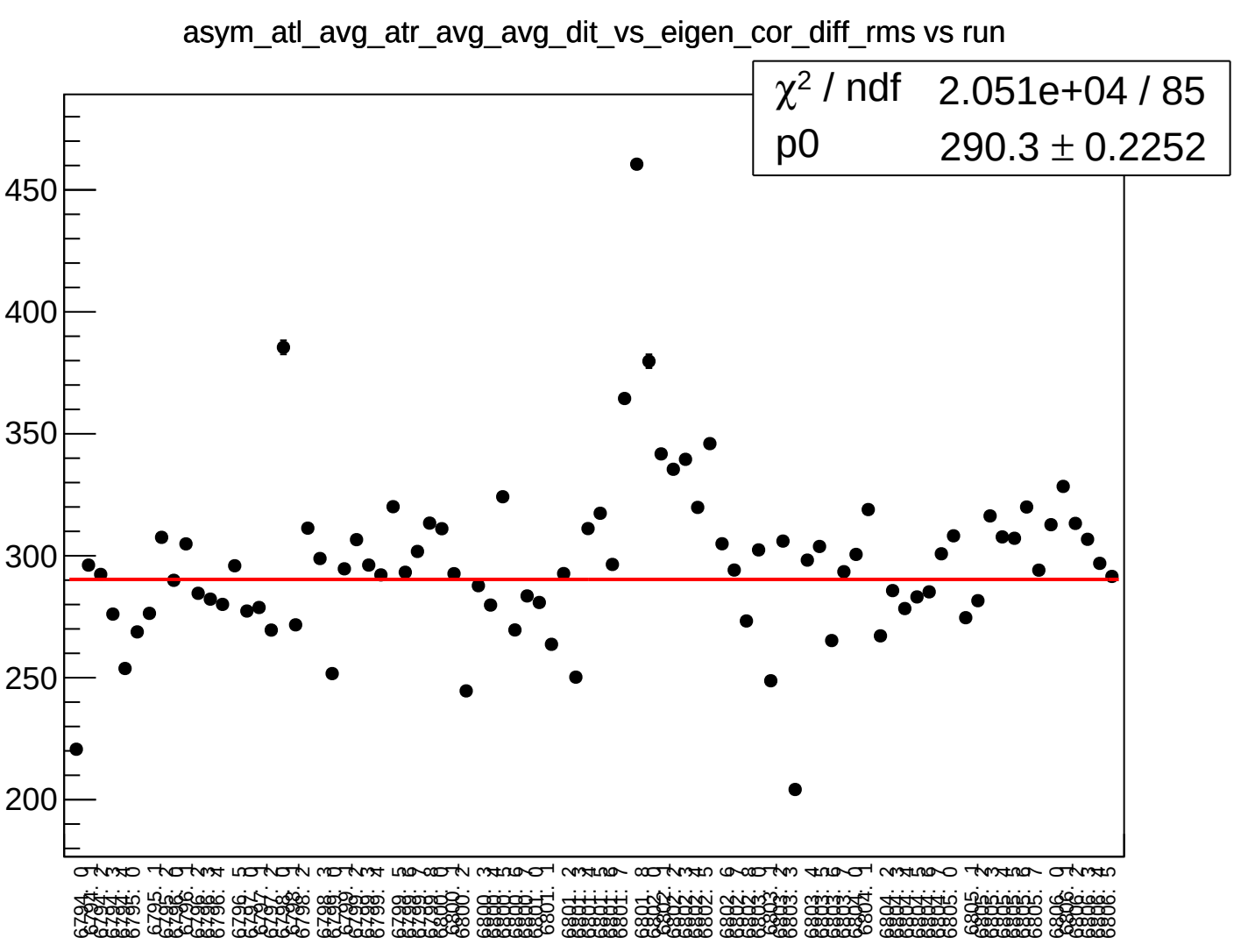

pull1D
Entries 86
Mean 0.05844
Std Dev 0.9516

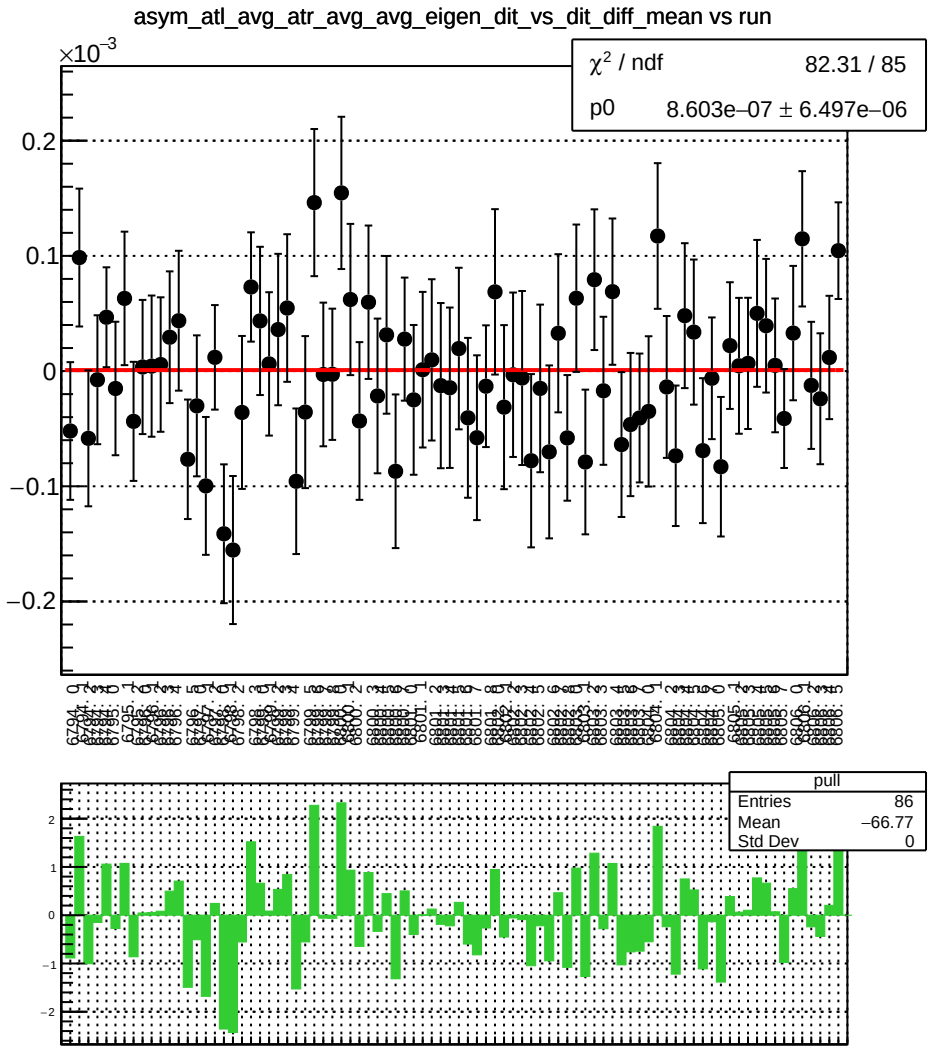

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.964e+05 / 85
p0 7.697e−11 ± 9.293e−14
1.2
1
0.8
0.6
0.4
0.2
0

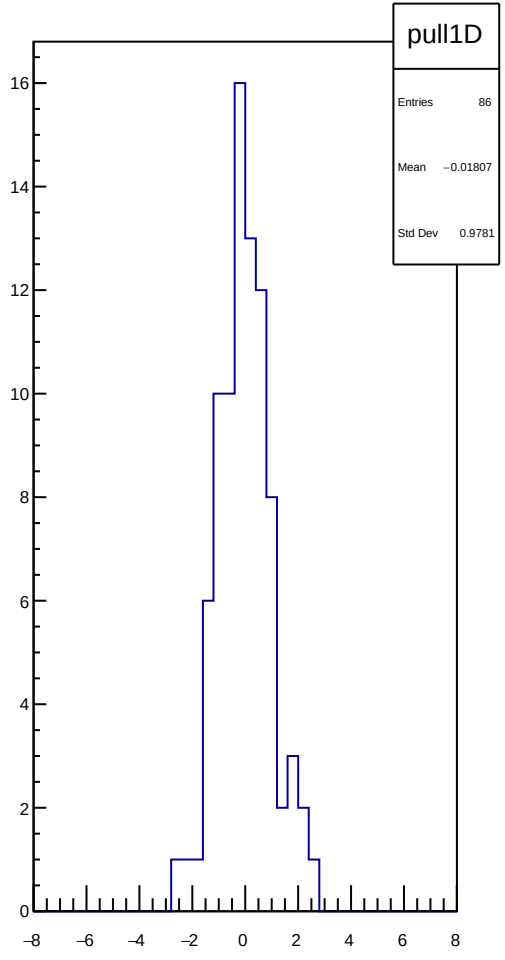

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 85
p0 0.3951 ± 0.3185
pull
Entries 86
Mean −42
Std Dev 0
pull1D
Entries 86
Mean −0.01789
Std Dev 1.004

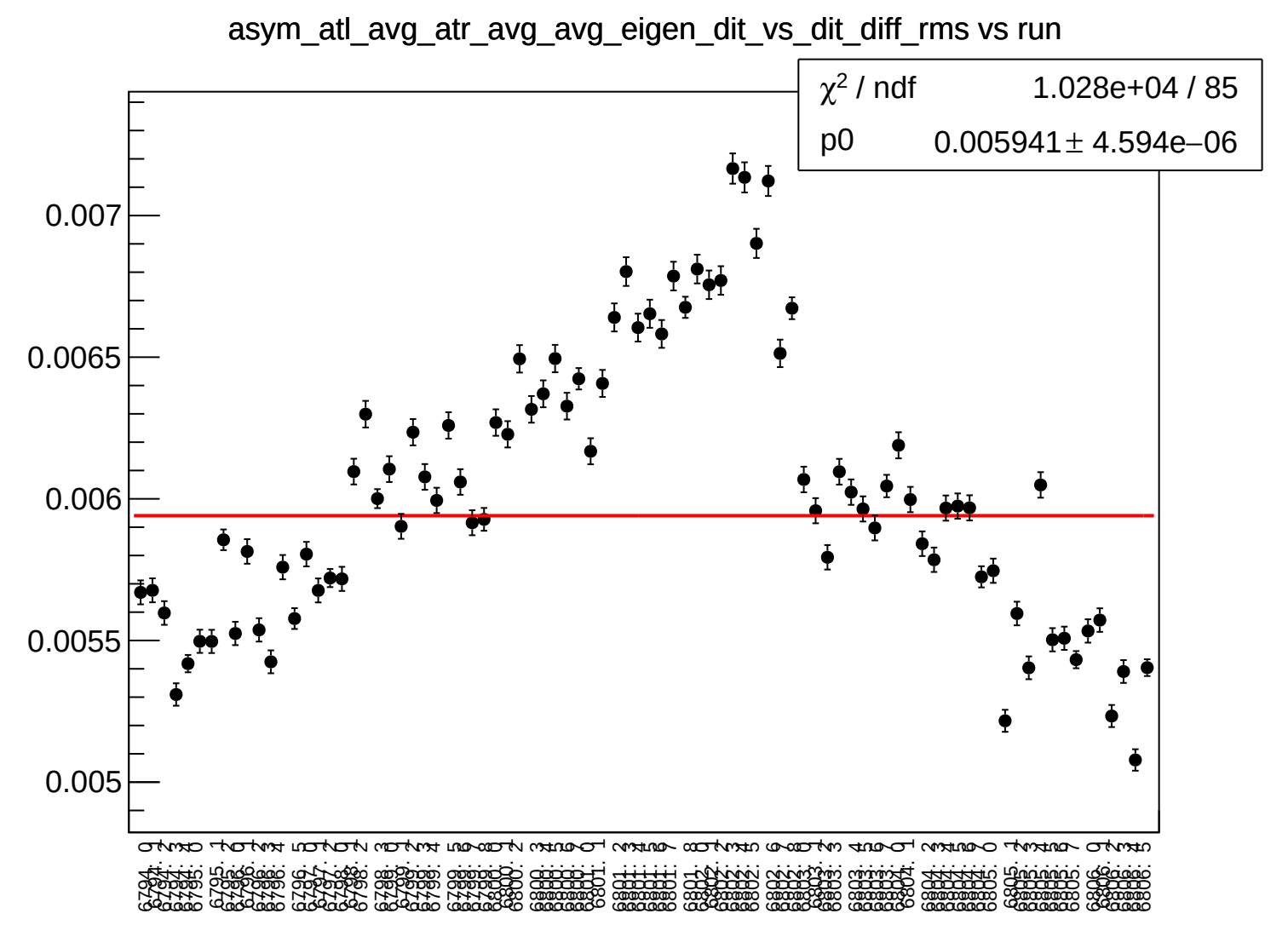

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.051e+04 / 85
p0 290.3 ± 0.2252
450
400
350
300
250
200

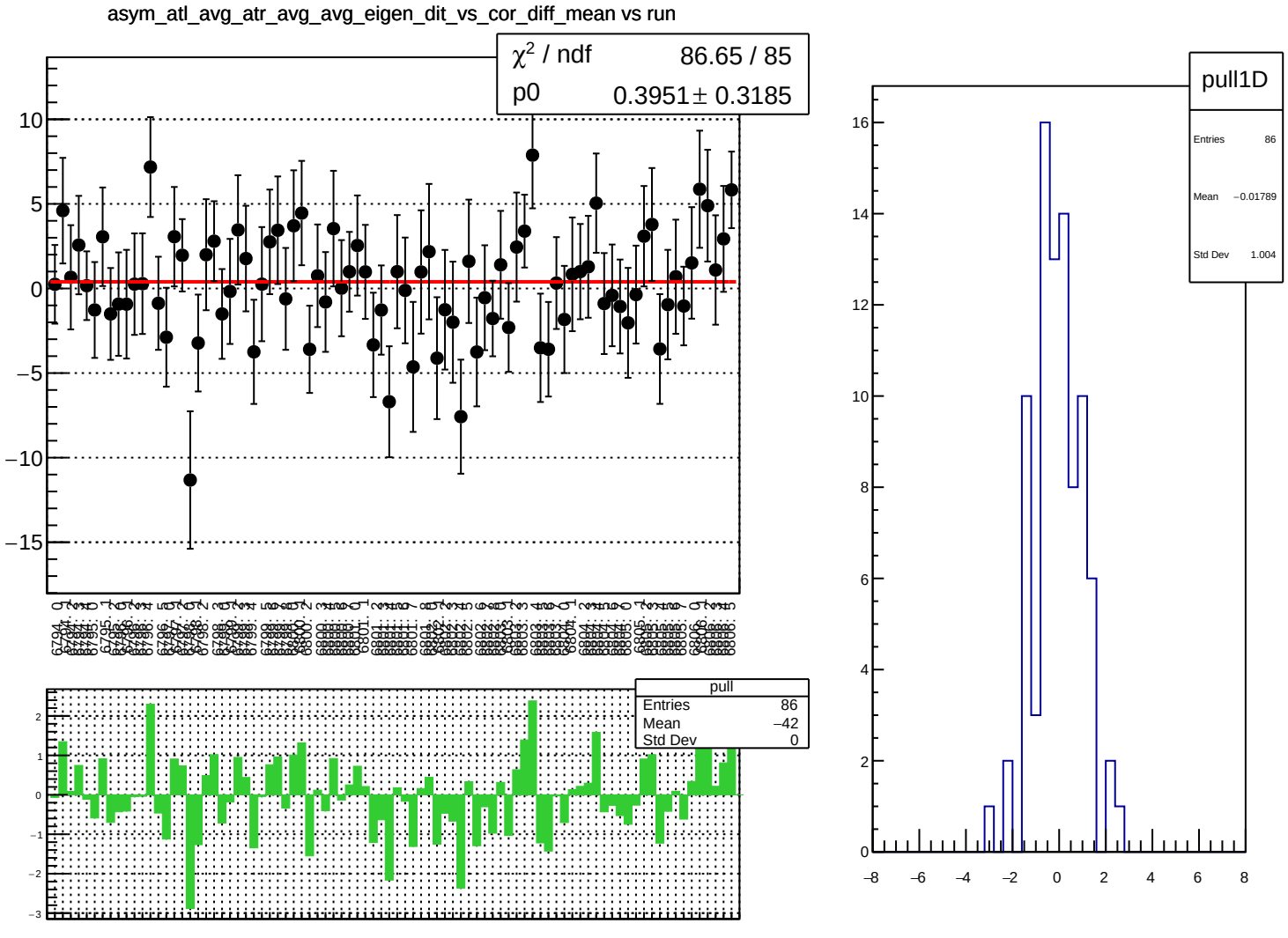

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 85
p0 0.3951 ± 0.3185
pull
Entries 86
Mean −42
Std Dev 0
pull1D
Entries 86
Mean −0.01789
Std Dev 1.004

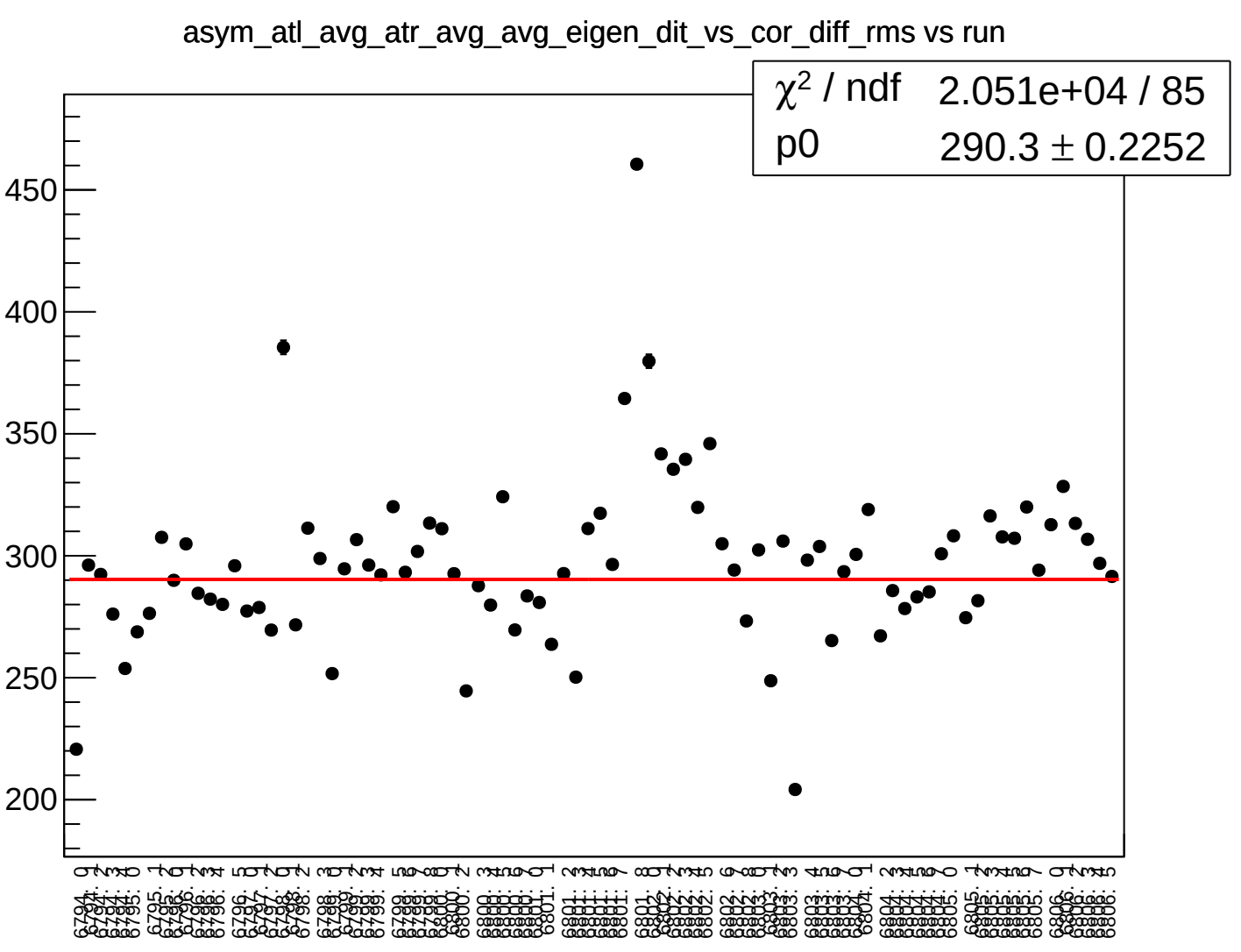

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.051e+04 / 85
p0 290.3 ± 0.2252
450
400
350
300
250
200

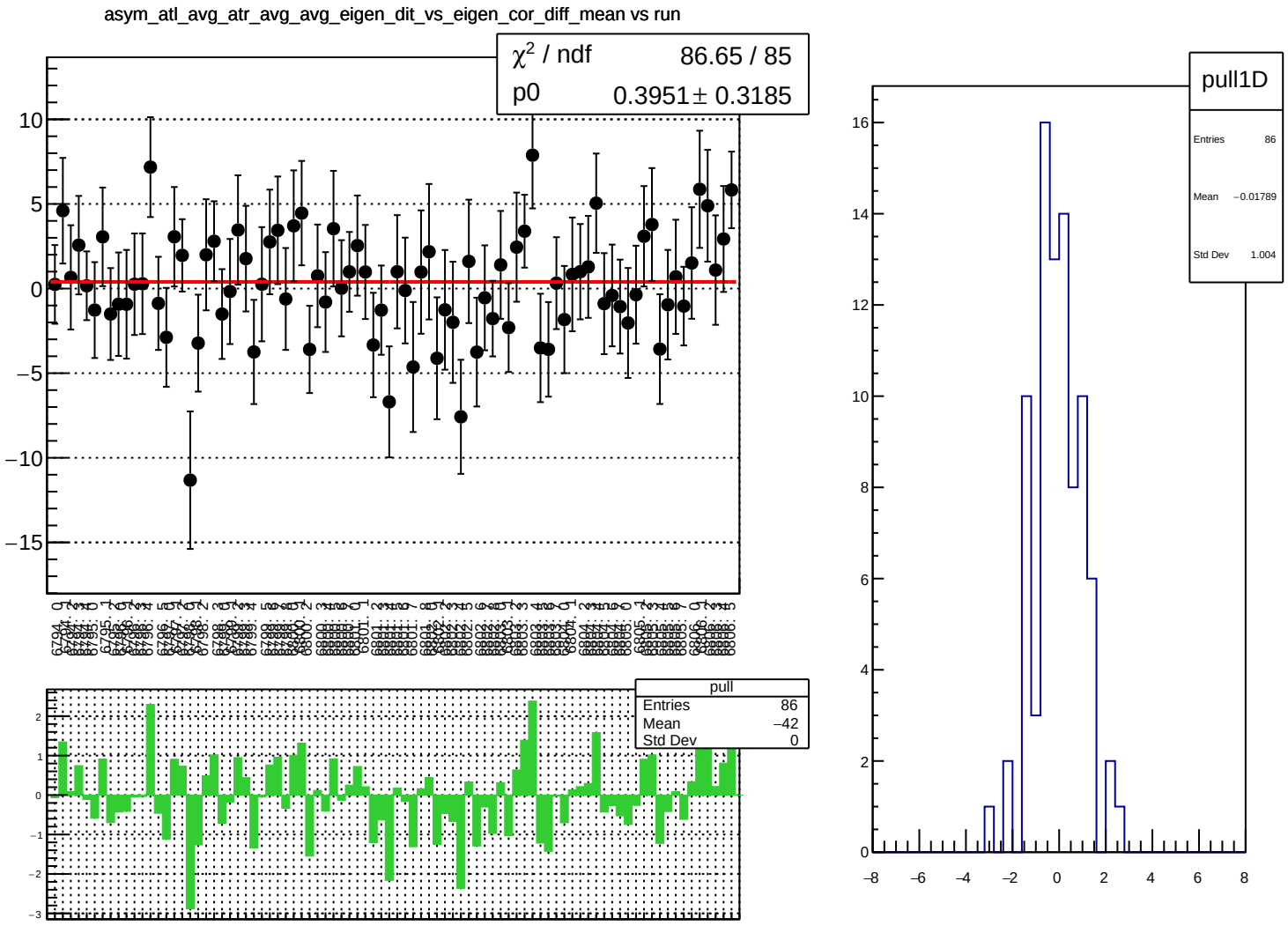

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.31 / 85
p0 8.603e−07 ± 6.497e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −66.77
Std Dev 0
2
1
0
−1
−2

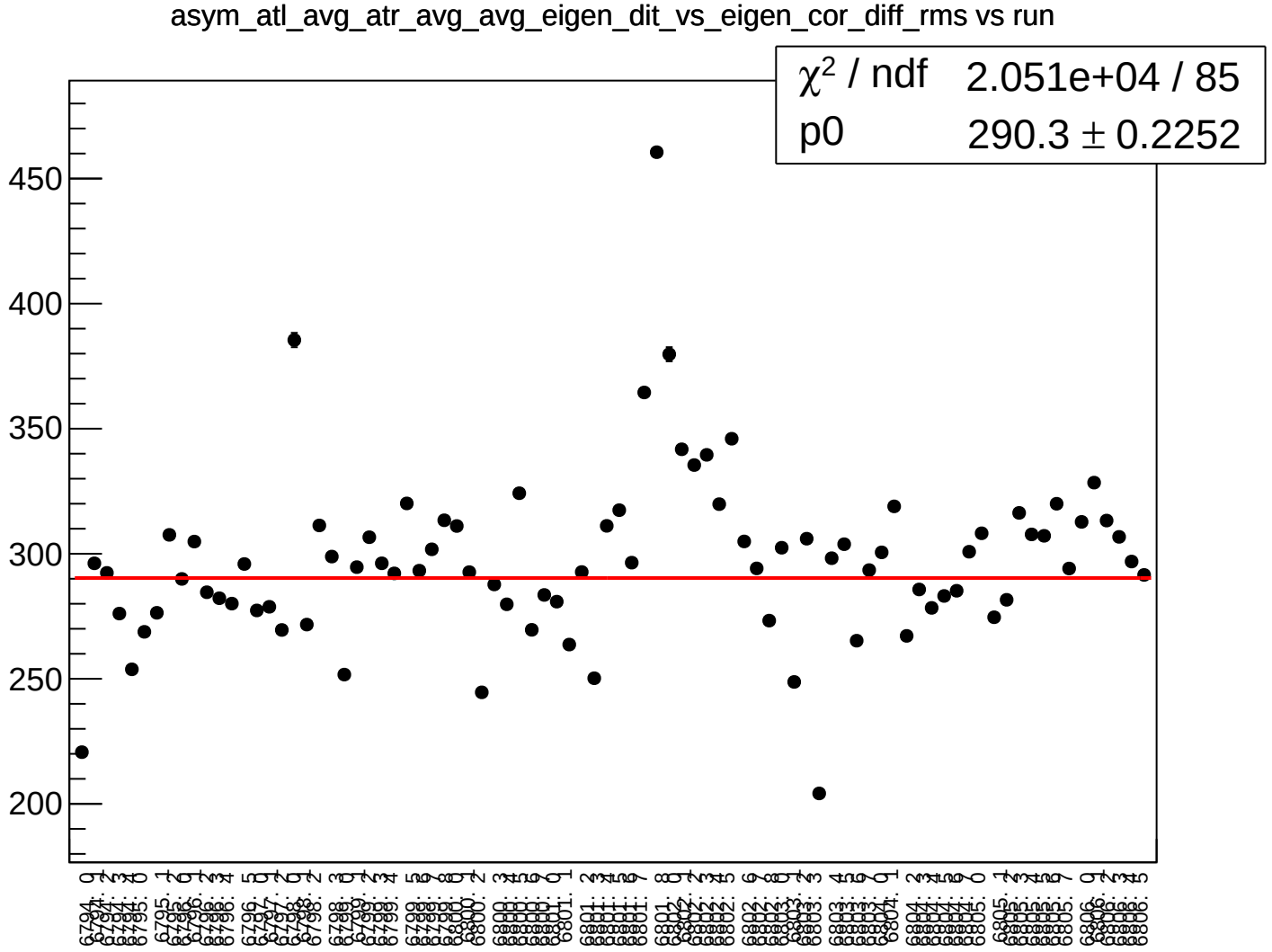

pull1D
Entries 86
Mean −0.01807
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

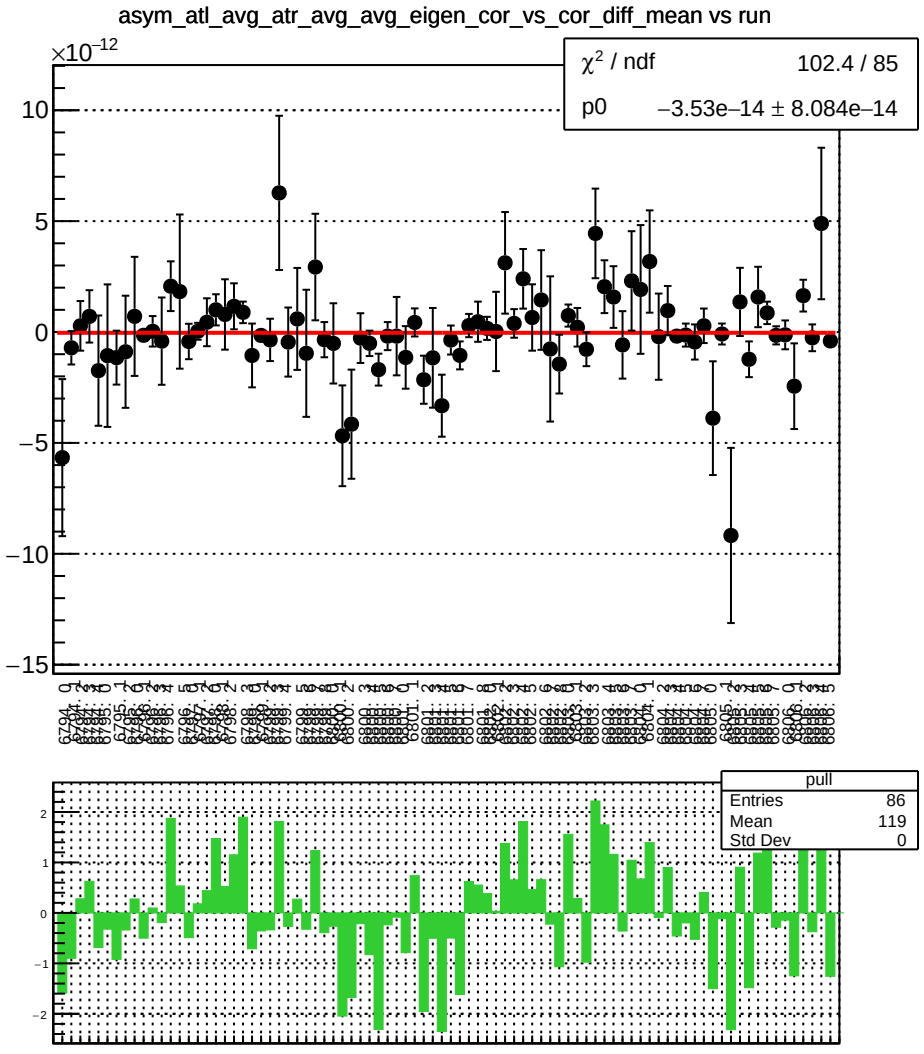

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.028e+04 / 85
p0 0.005941 ± 4.594e−06
0.007
0.0065
0.006
0.0055
0.005

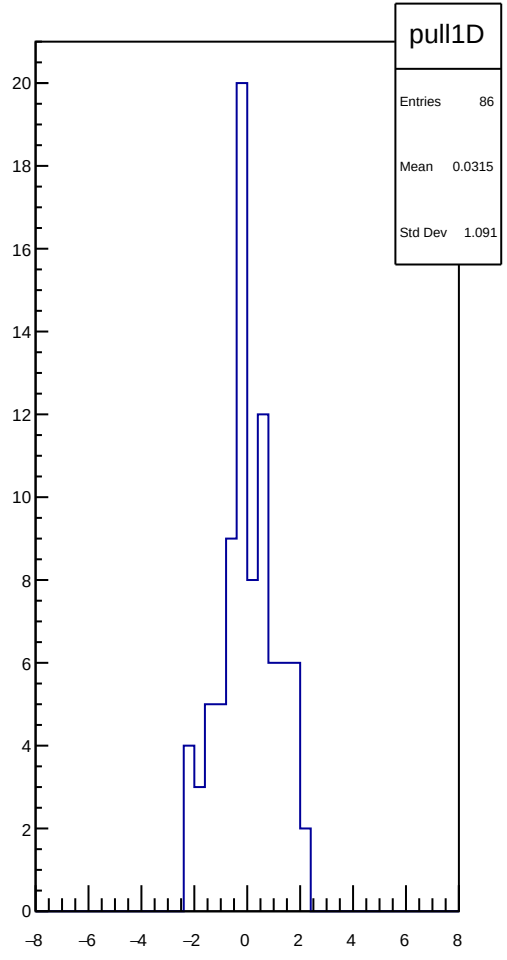

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 85
p0 0.3951 ± 0.3185
pull
Entries 86
Mean −42
Std Dev 0
pull1D
Entries 86
Mean −0.01789
Std Dev 1.004

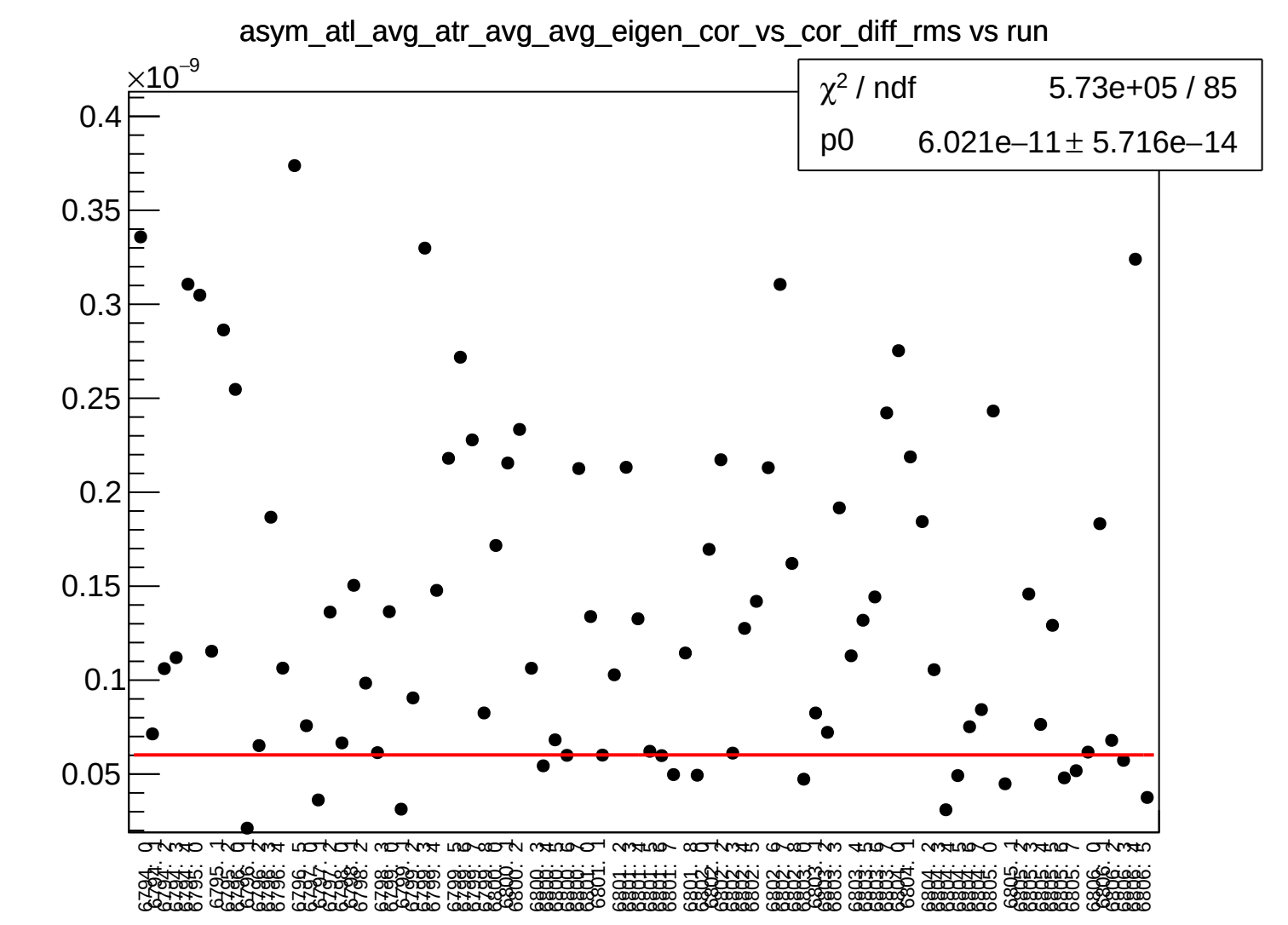

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.051e+04 / 85
p0 290.3 ± 0.2252
450
400
350
300
250
200

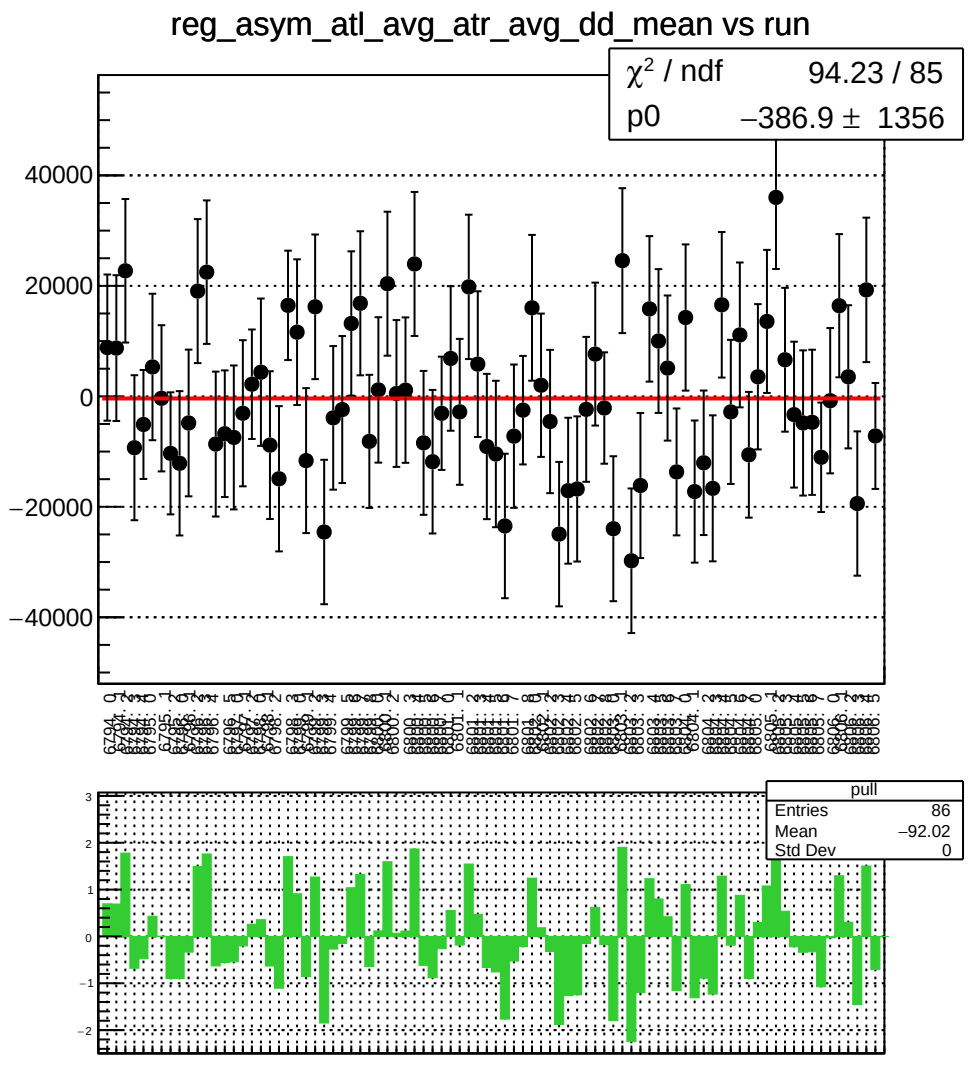

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 85
p0 0.3951 ± 0.3185
pull
Entries 86
Mean −42
Std Dev 0
pull1D
Entries 86
Mean −0.01789
Std Dev 1.004

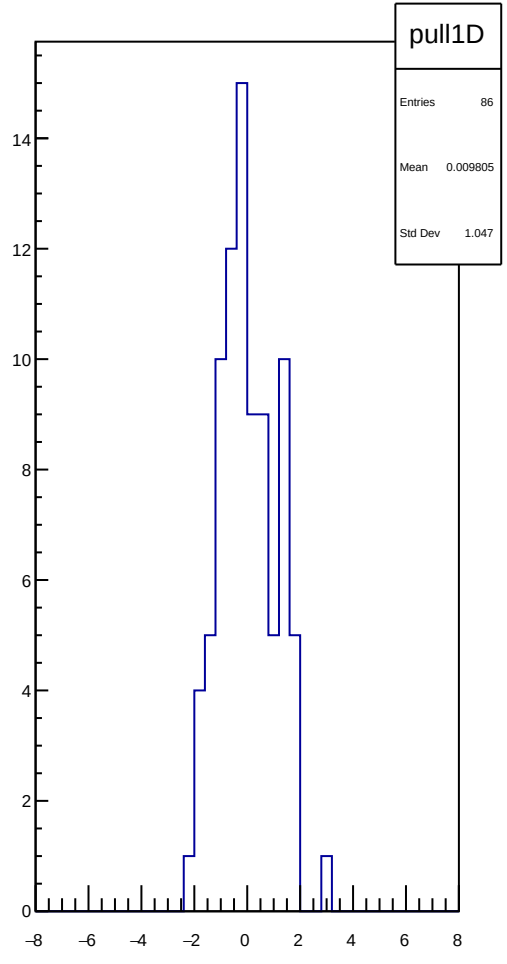

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.051e+04 / 85
p0 290.3 ± 0.2252
450
400
350
300
250
200

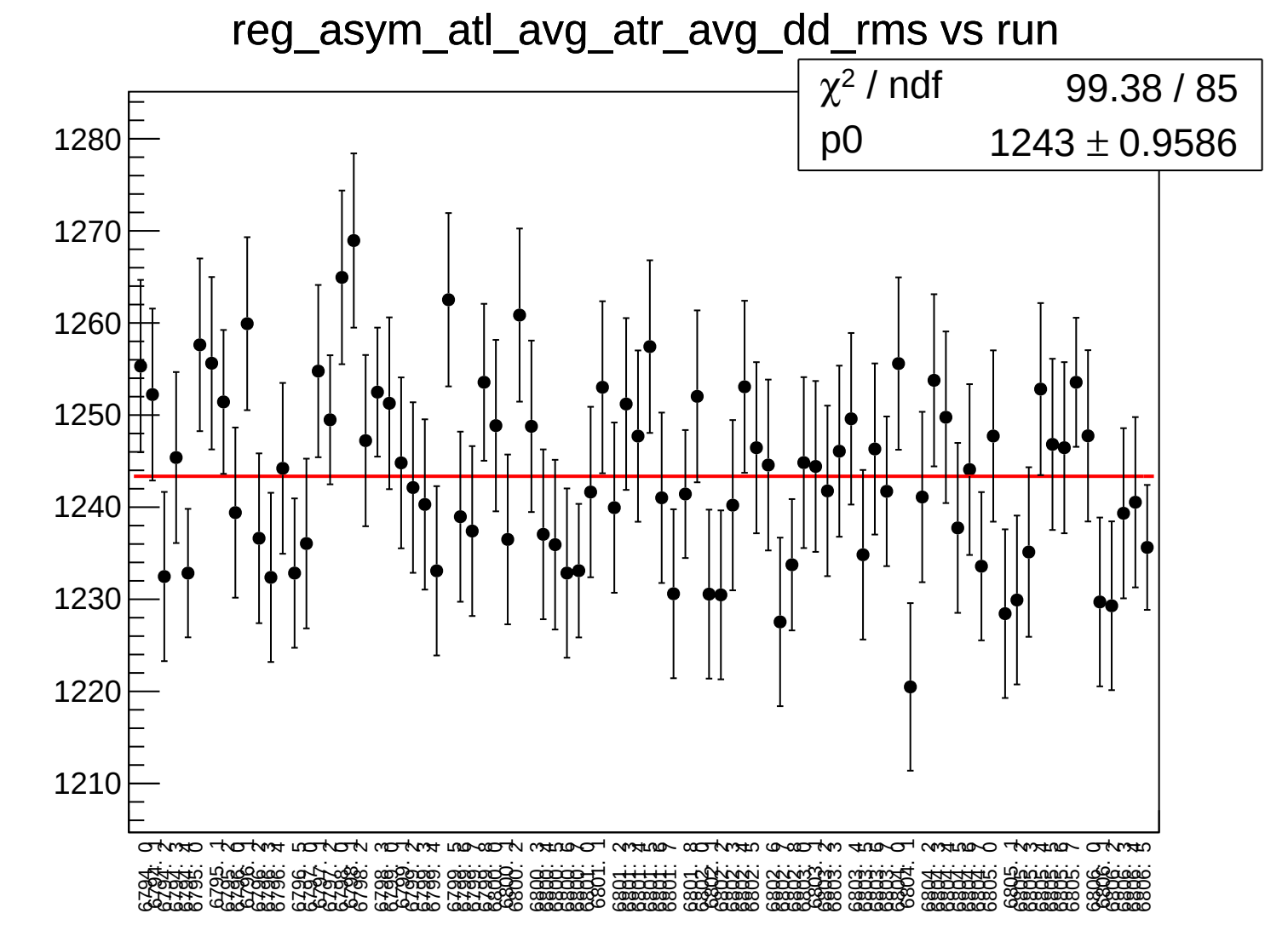

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.4 / 85
p0 −3.53e−14 ± 8.084e−14
pull
Entries 86
Mean 119
Std Dev 0

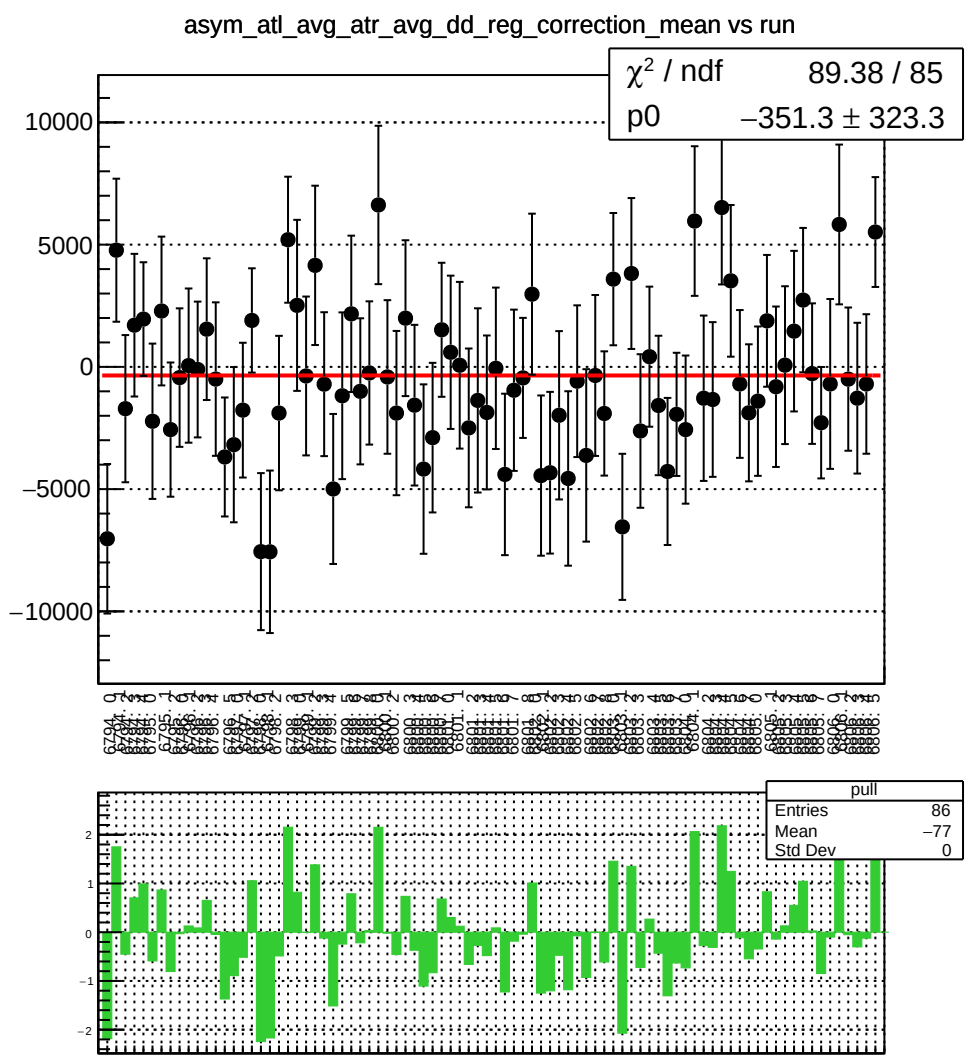

pull1D
Entries 86
Mean 0.0315
Std Dev 1.091

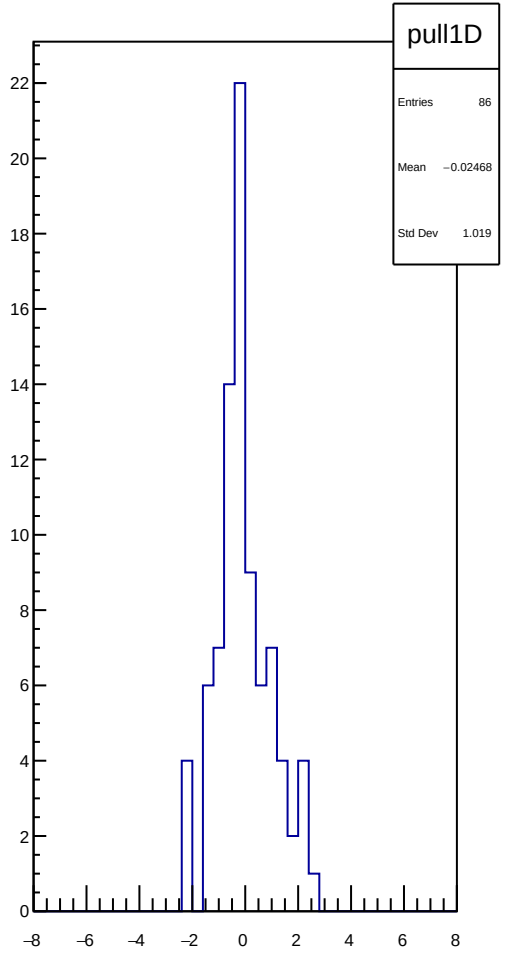

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.73e+05 / 85
p0 6.021e−11 ± 5.716e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

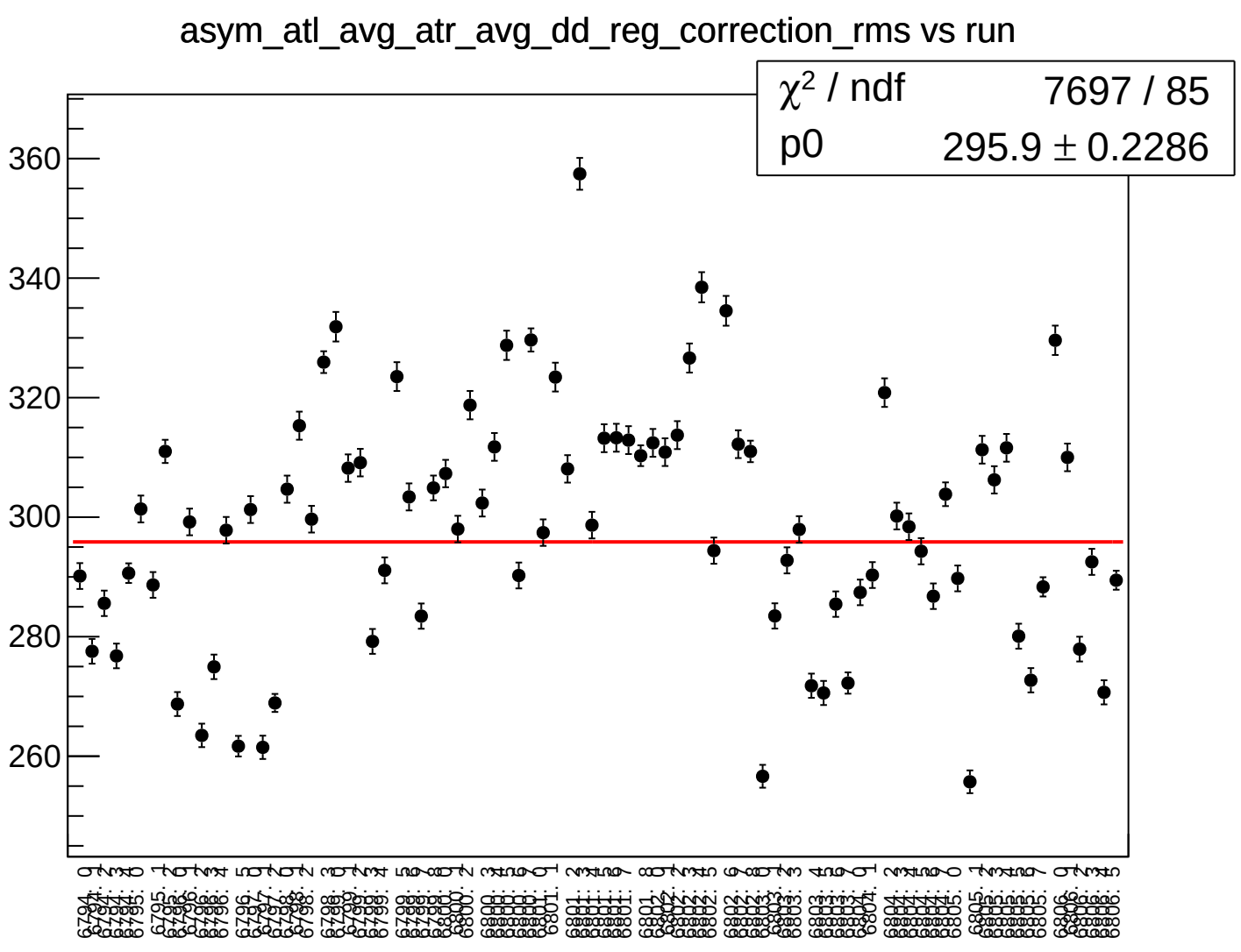

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.23 / 85
p0 −386.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.02
Std Dev 0
3
2
1
0
−1
−2

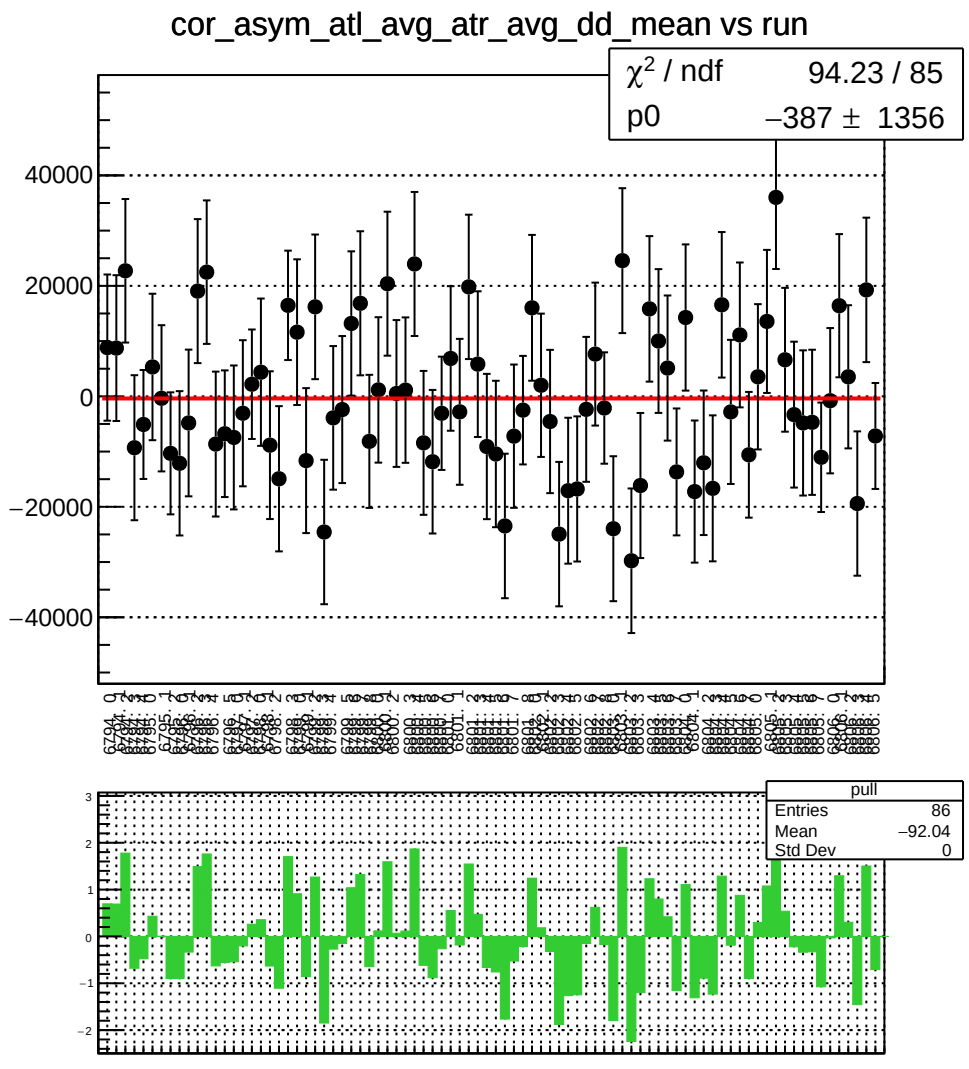

pull1D
Entries 86
Mean 0.009805
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

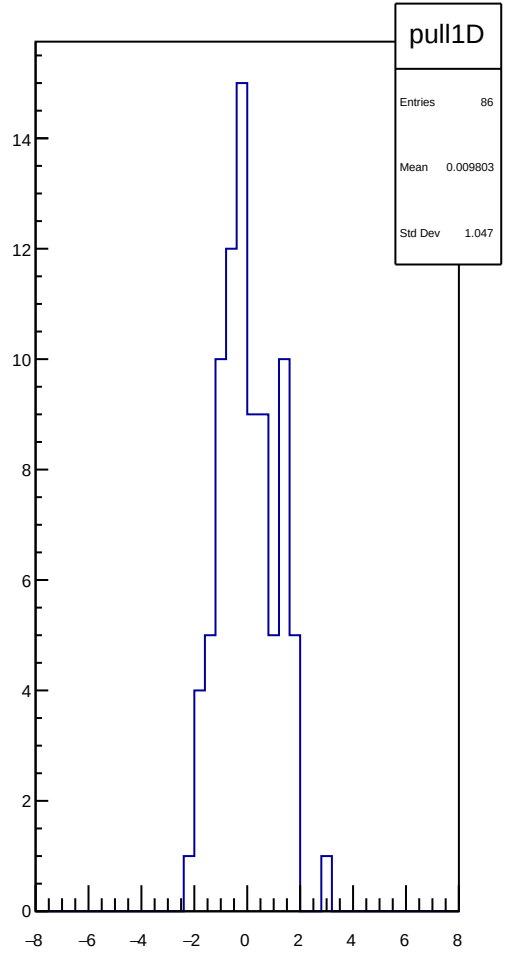

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

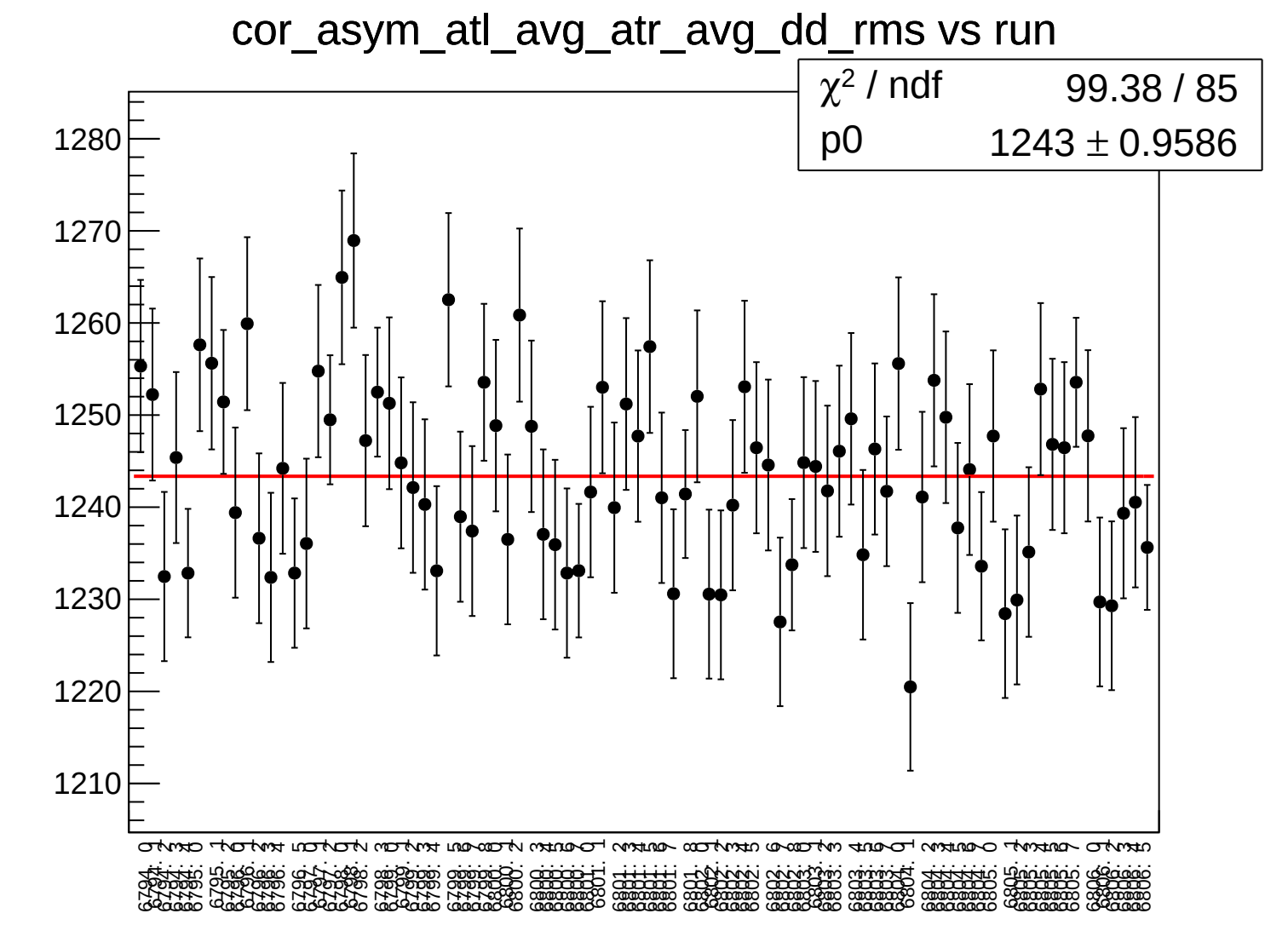

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 89.38 / 85
p0 −351.3 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

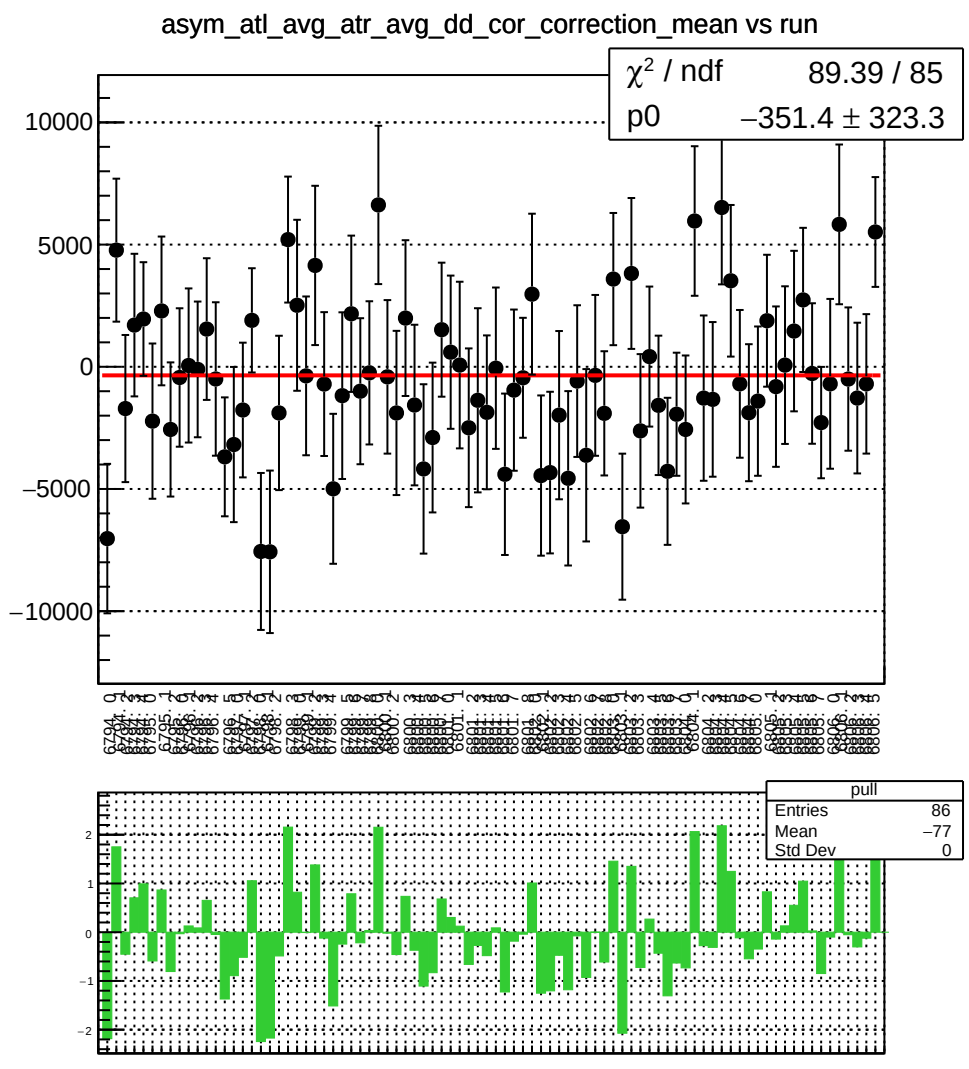

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

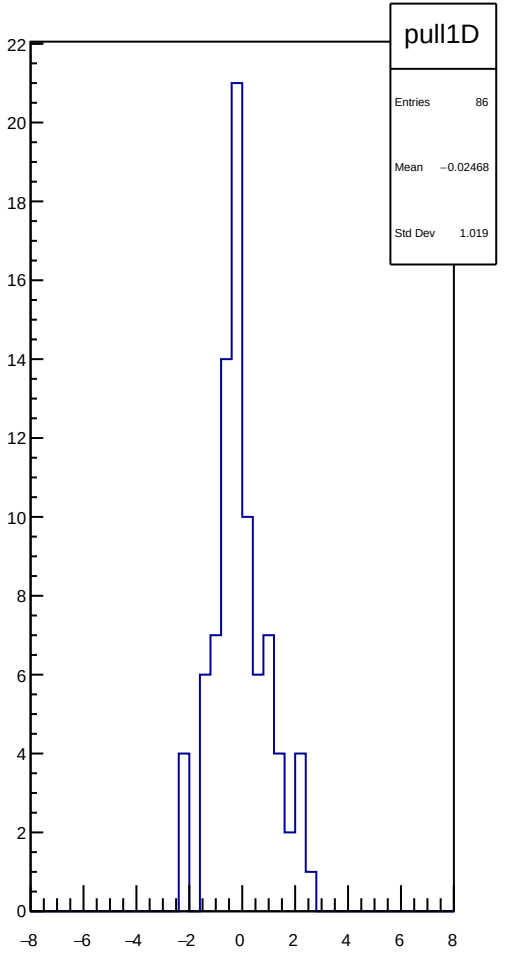

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 7697 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

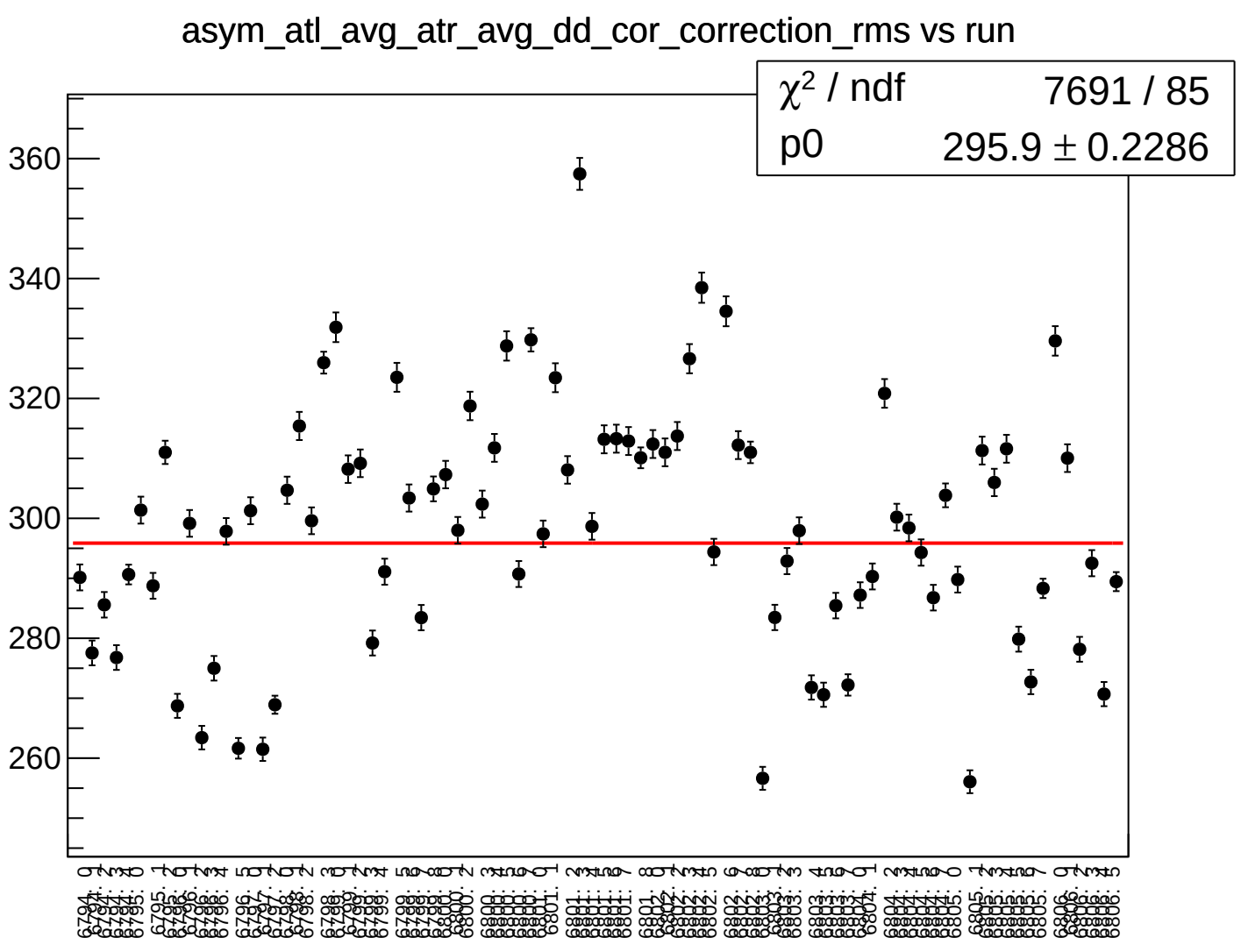

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.23 / 85
p0 −387 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.04
Std Dev 0
3
2
1
0
−1
−2

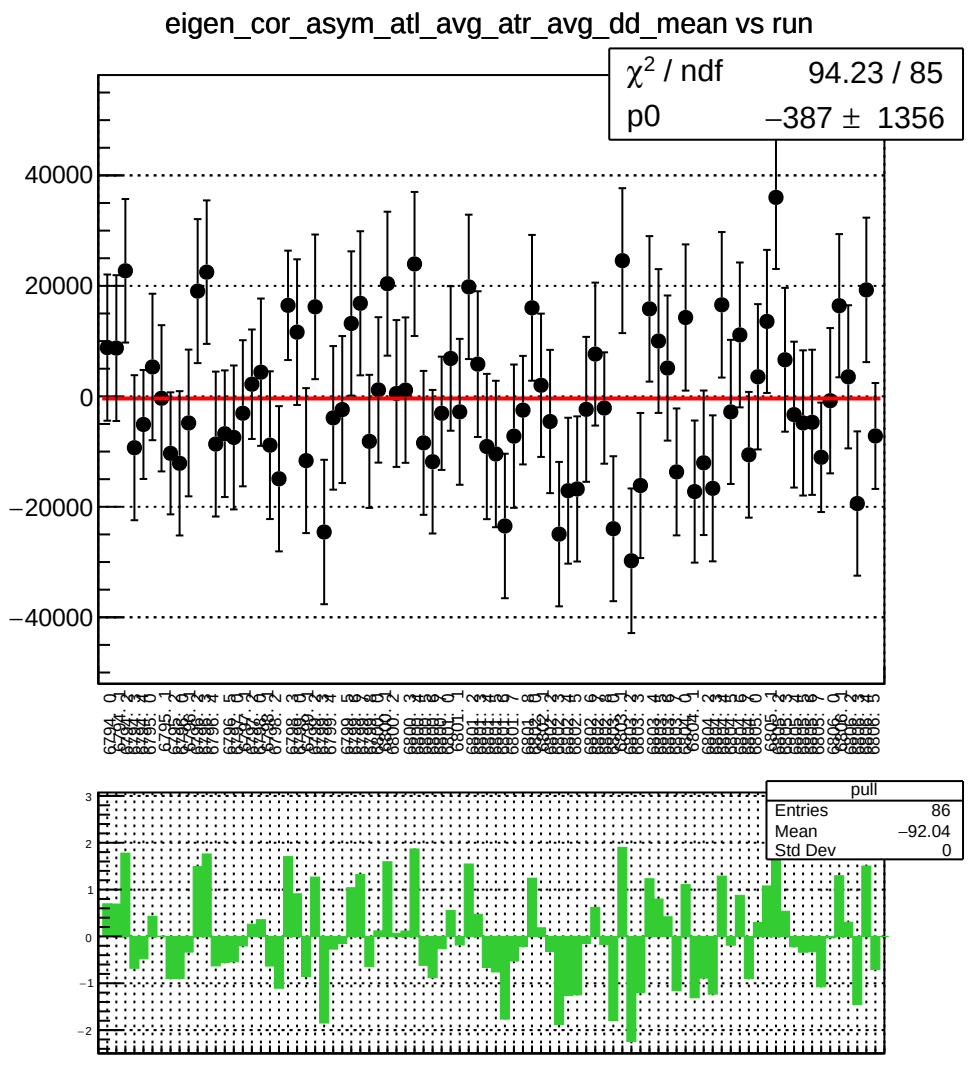

pull1D
Entries 86
Mean 0.009803
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

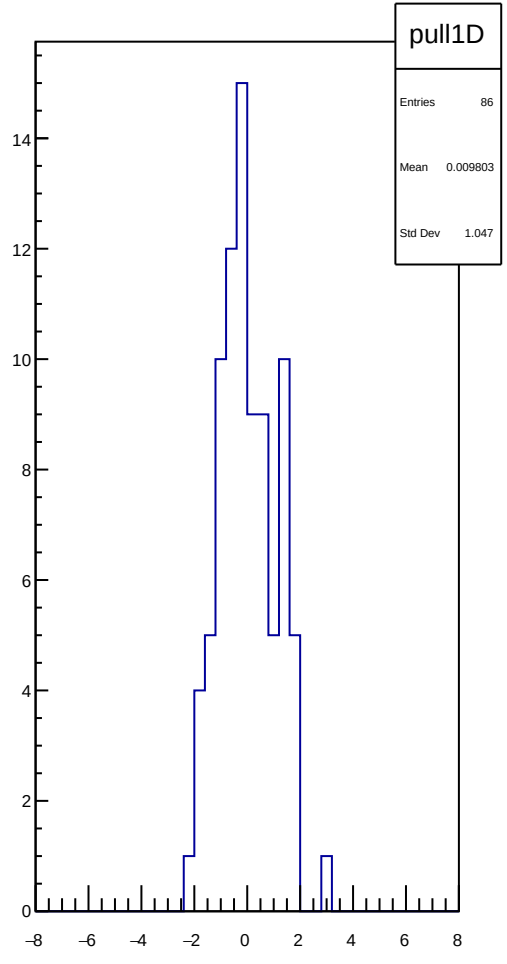

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

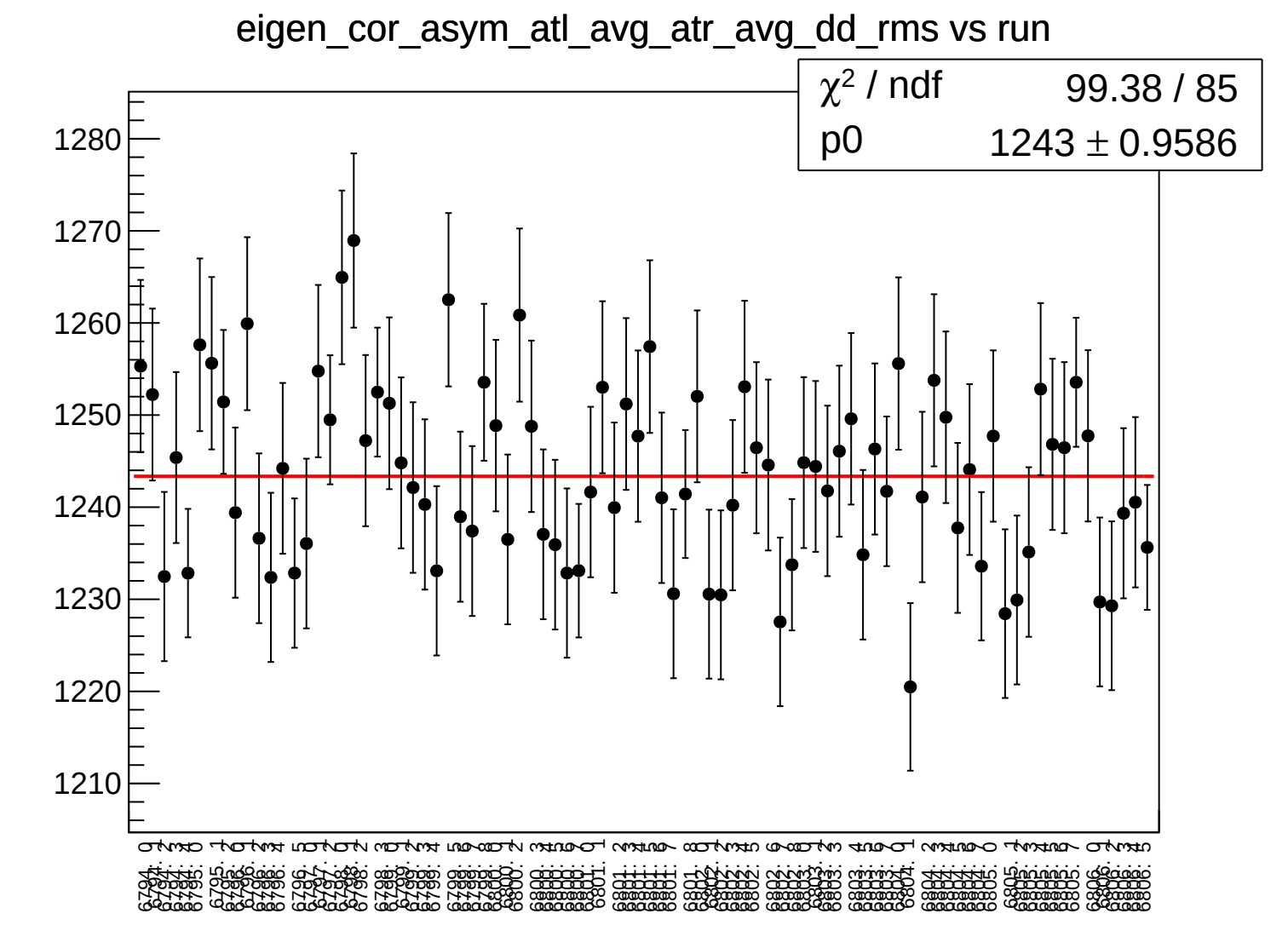

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 89.39 / 85
p0 −351.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

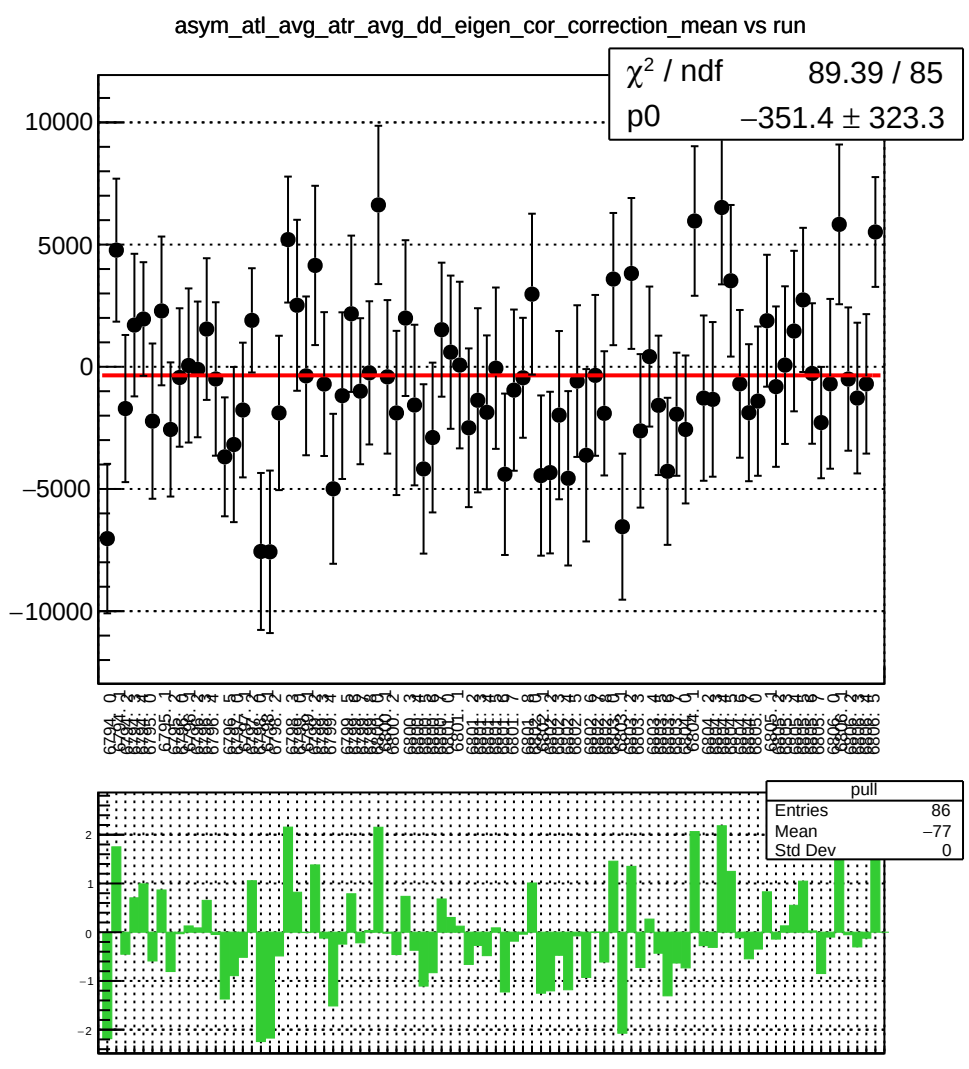

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

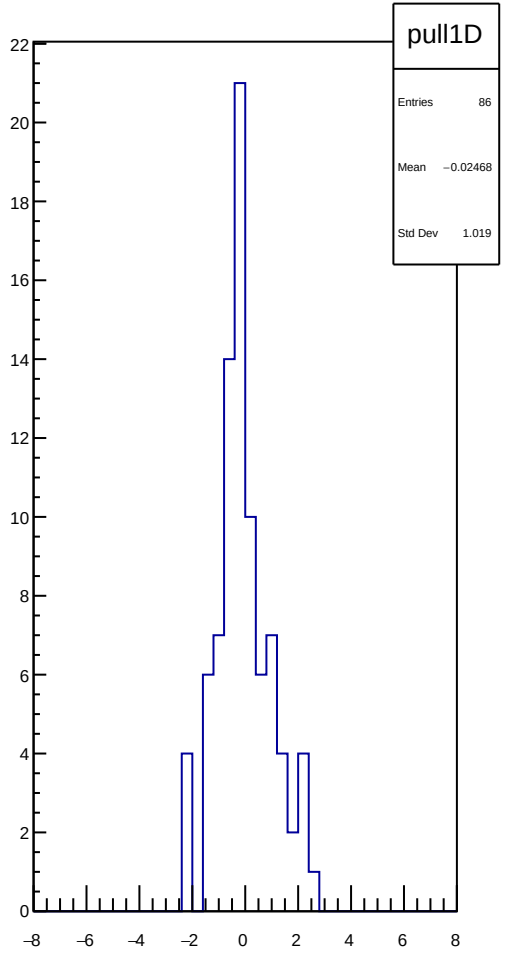

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 7691 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

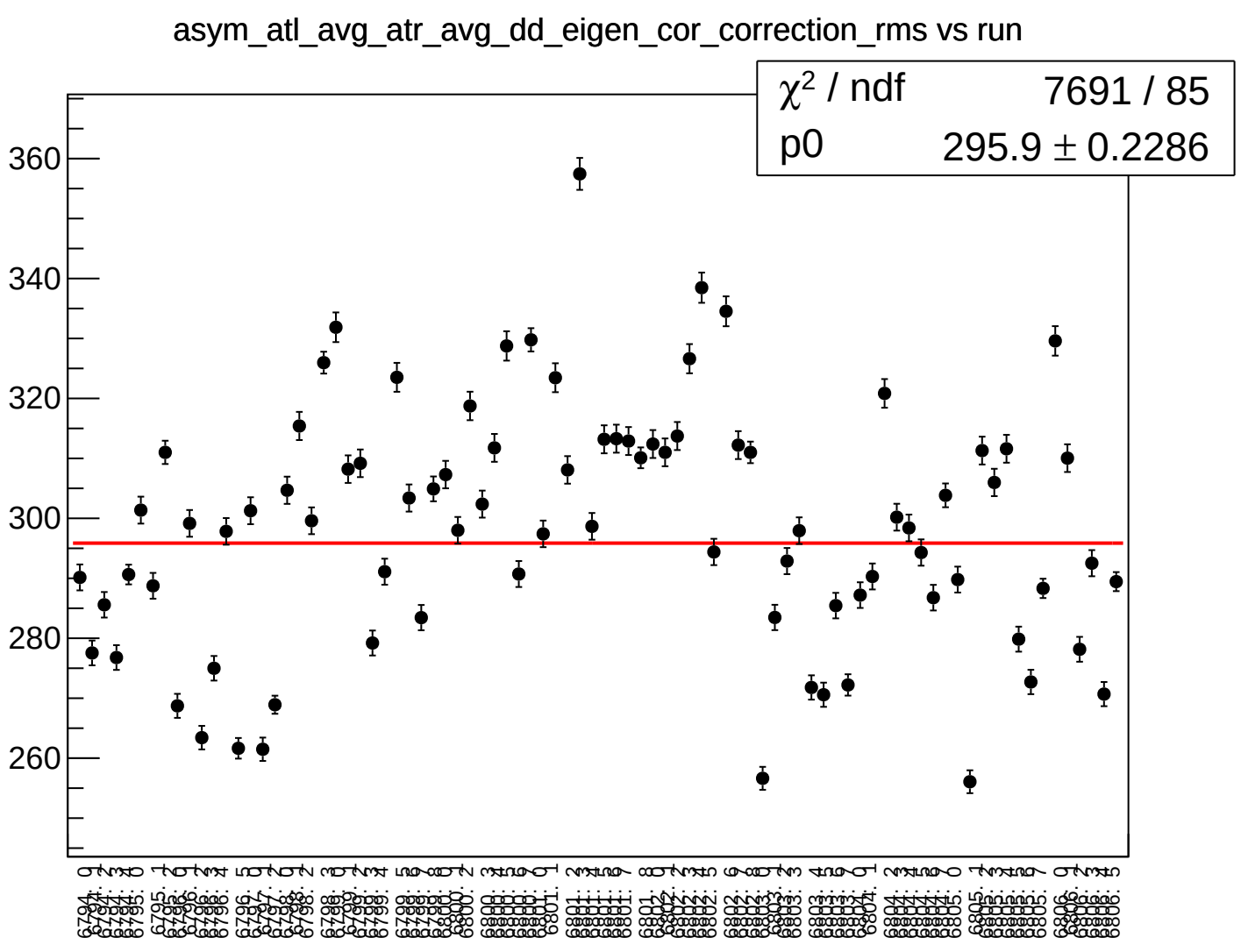

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.23 / 85
p0 −387 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.04
Std Dev 0
3
2
1
0
−1
−2

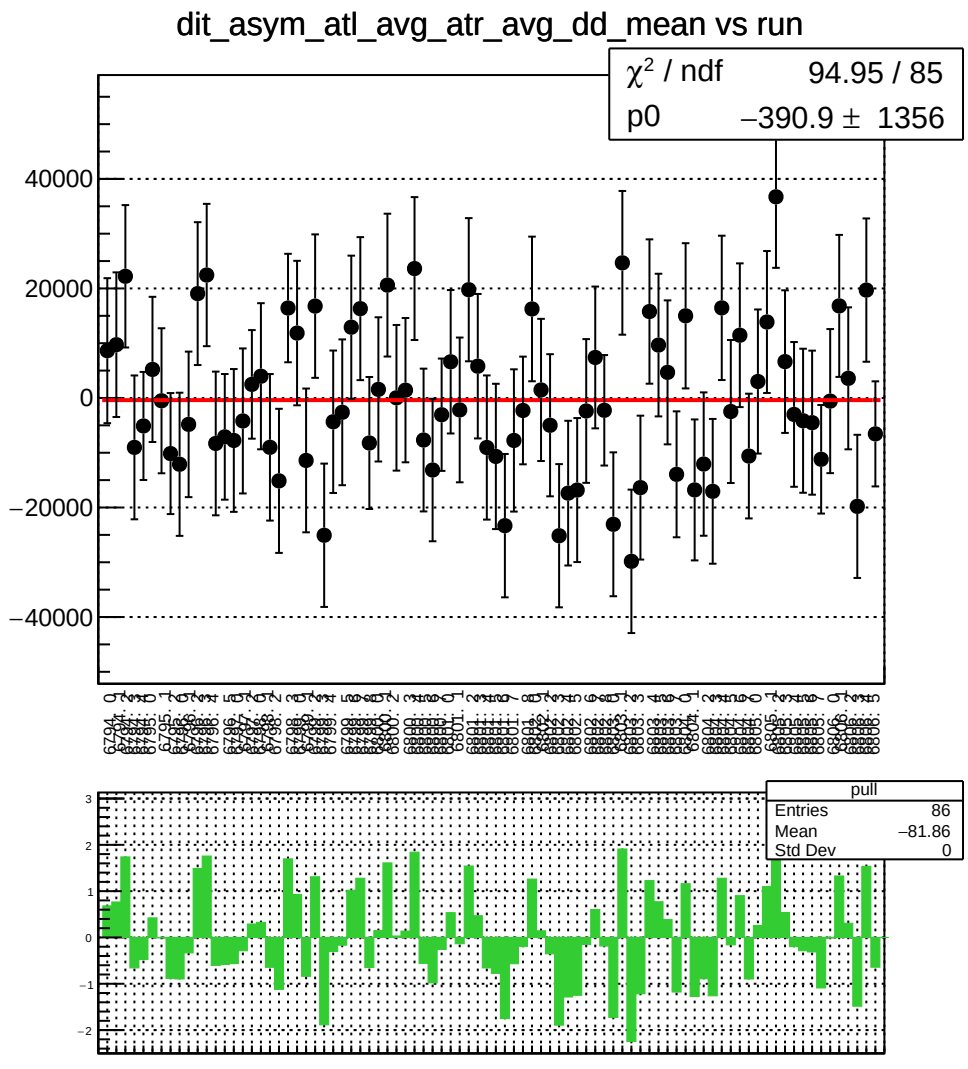

pull1D
Entries 86
Mean 0.009803
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

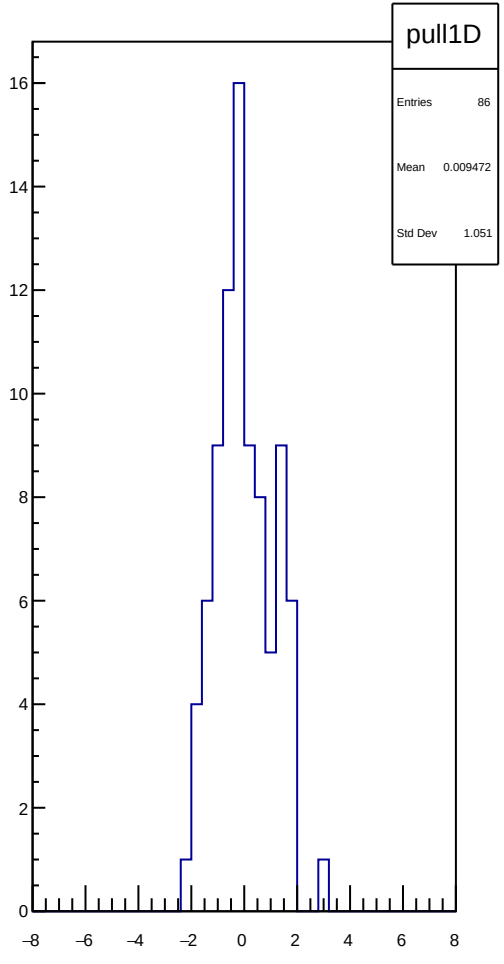

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

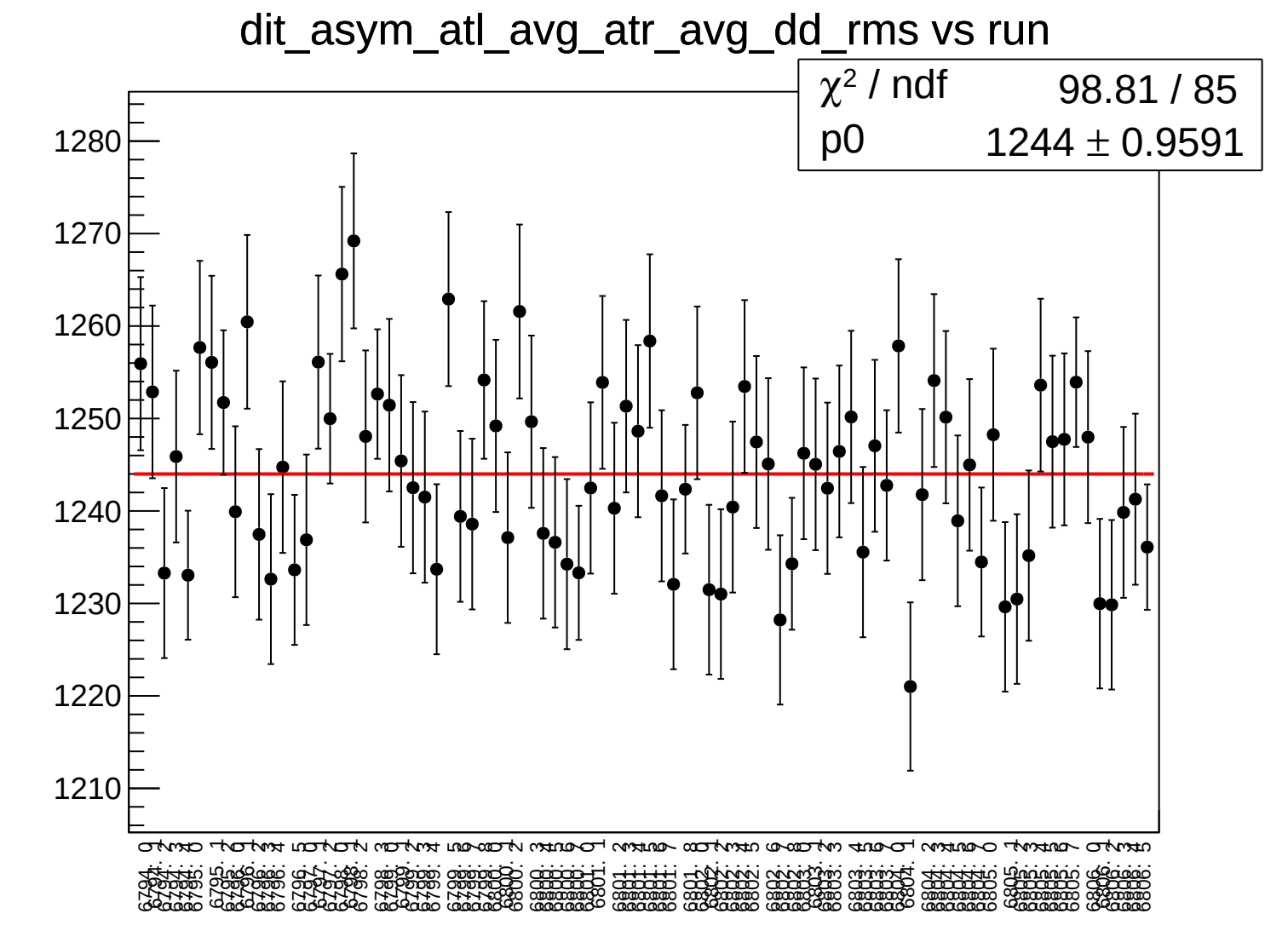

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 89.39 / 85
p0 −351.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

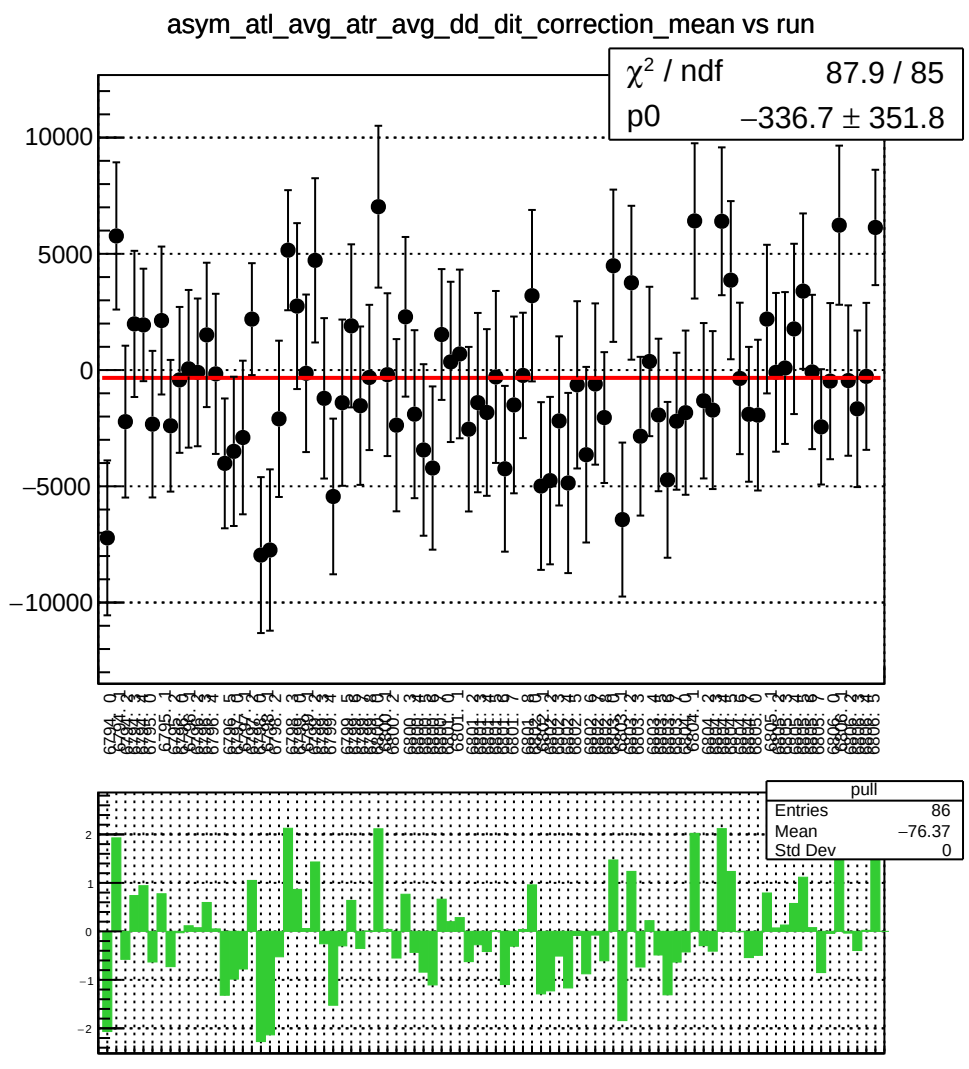

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

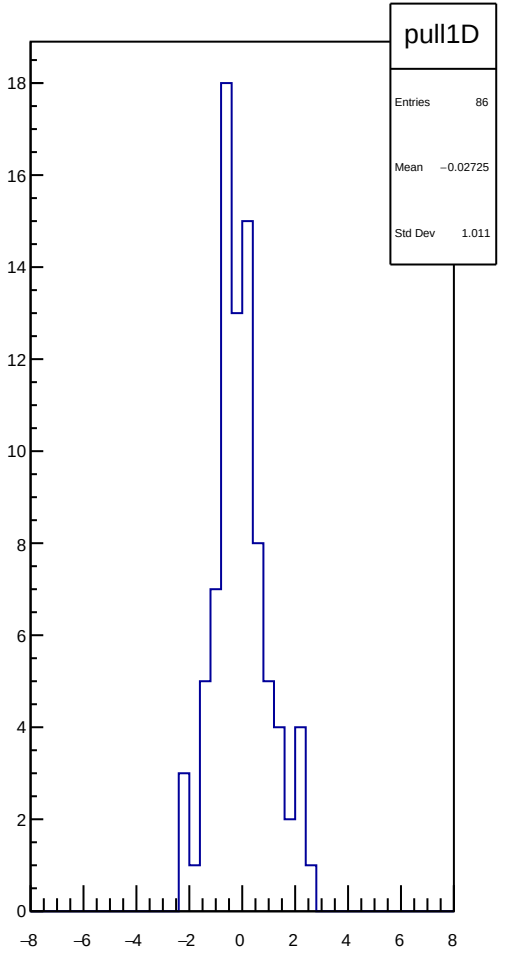

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 7691 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

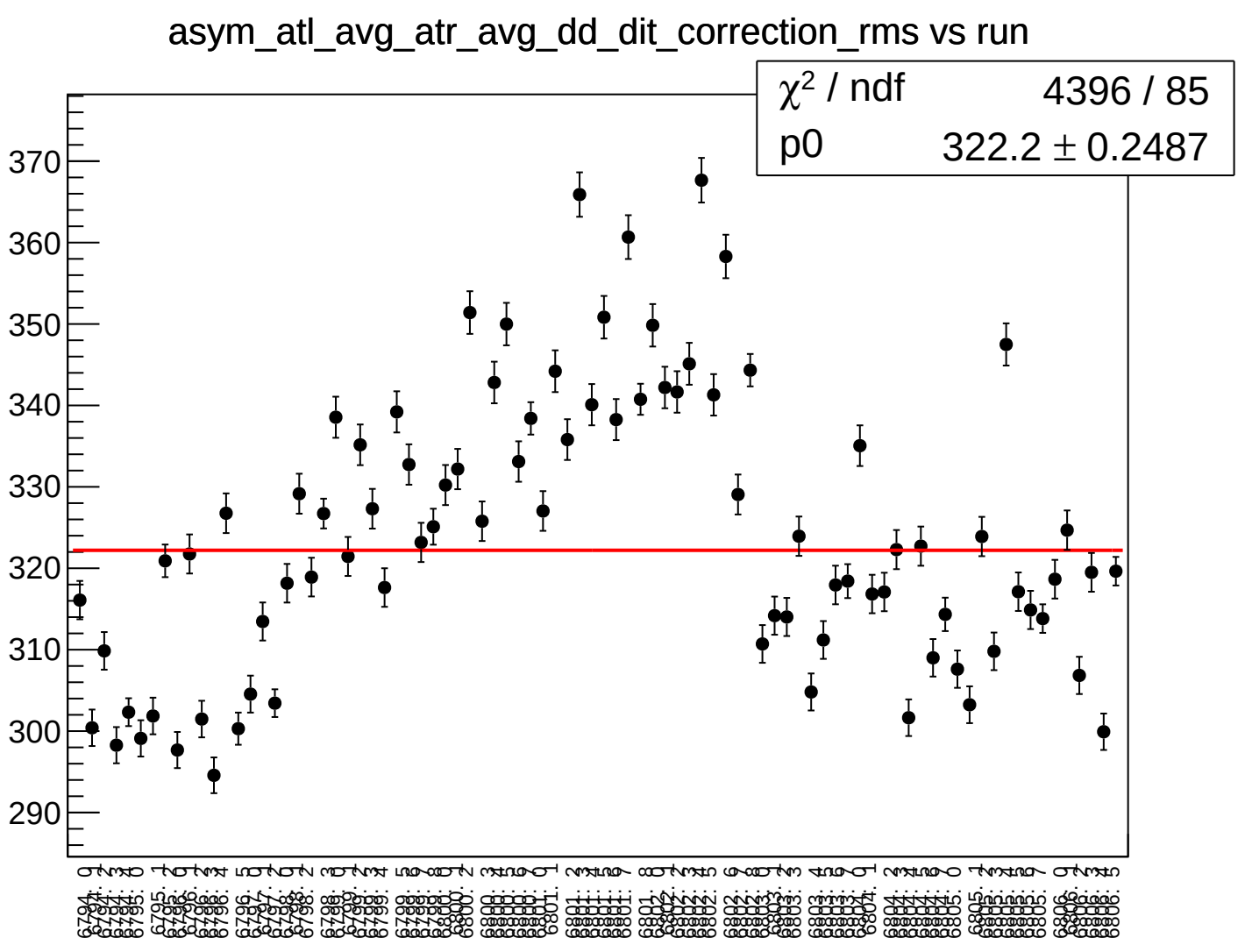

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.95 / 85
p0 −390.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2

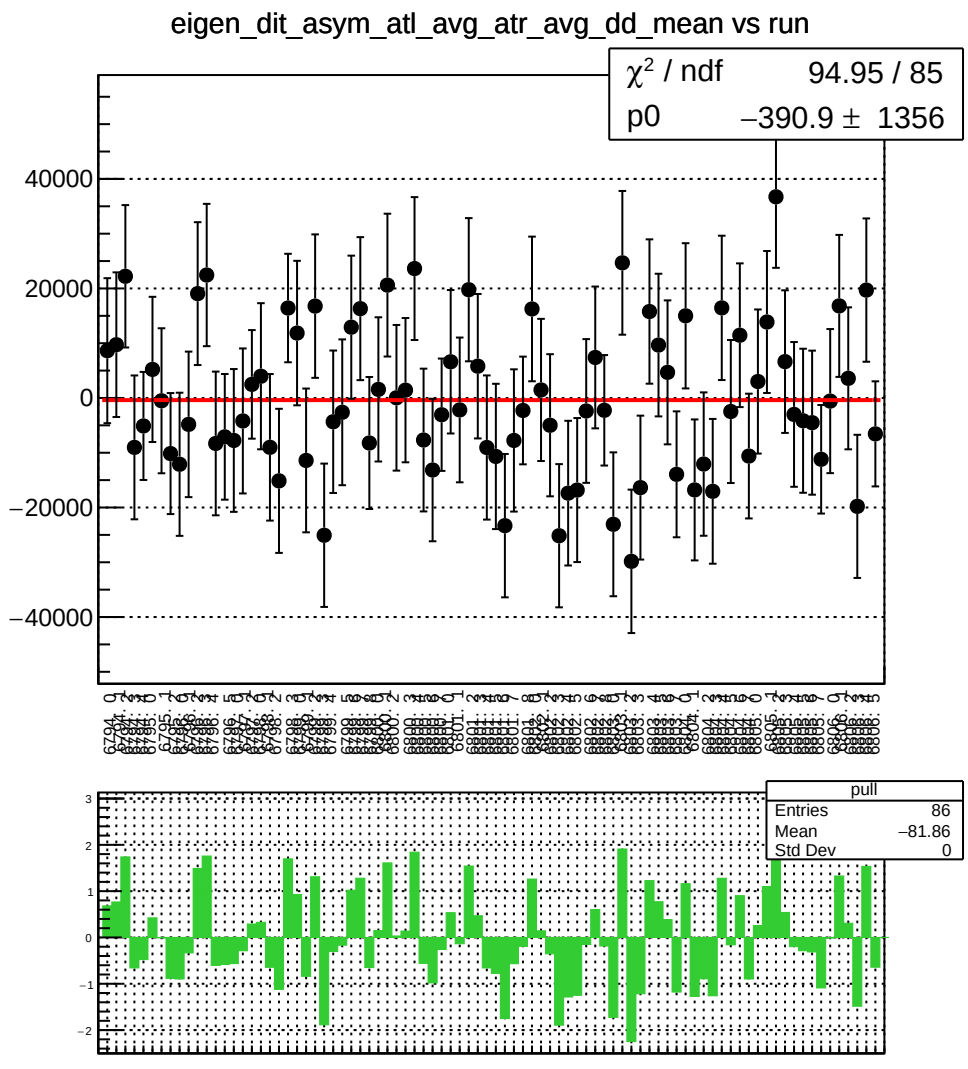

pull1D
Entries 86
Mean 0.009472
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

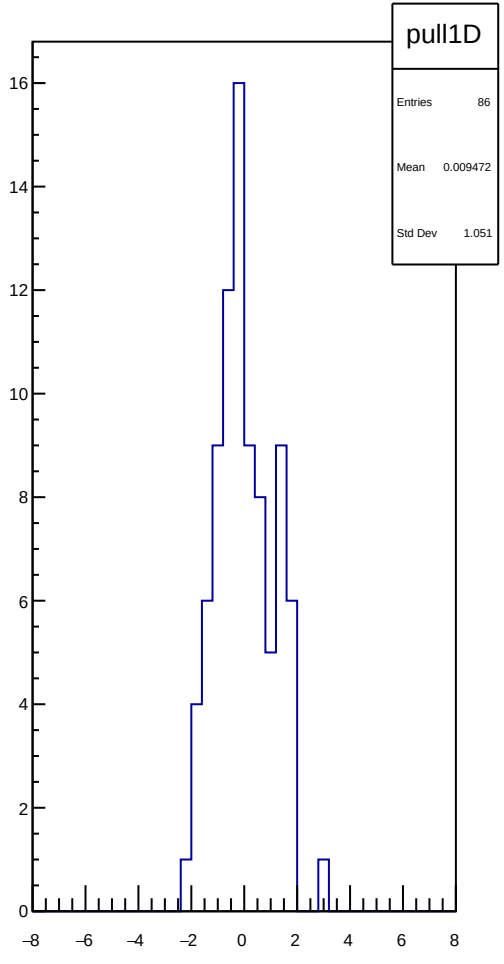

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 98.81 / 85
p0 1244 ± 0.9591
1280
1270
1260
1250
1240
1230
1220
1210

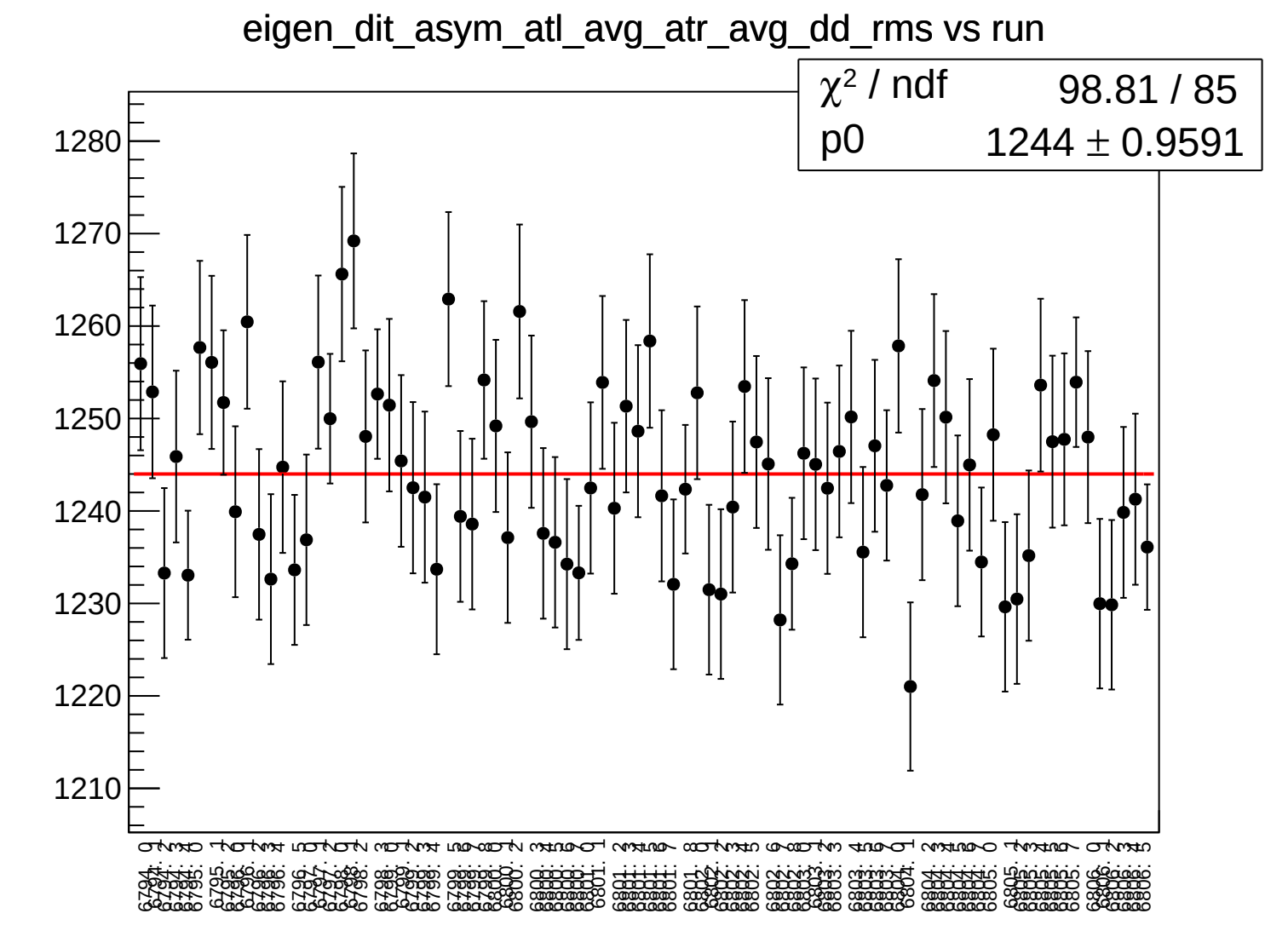

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 87.9 / 85
p0 −336.7 ± 351.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −76.37
Std Dev 0
2
1
0
−1
−2

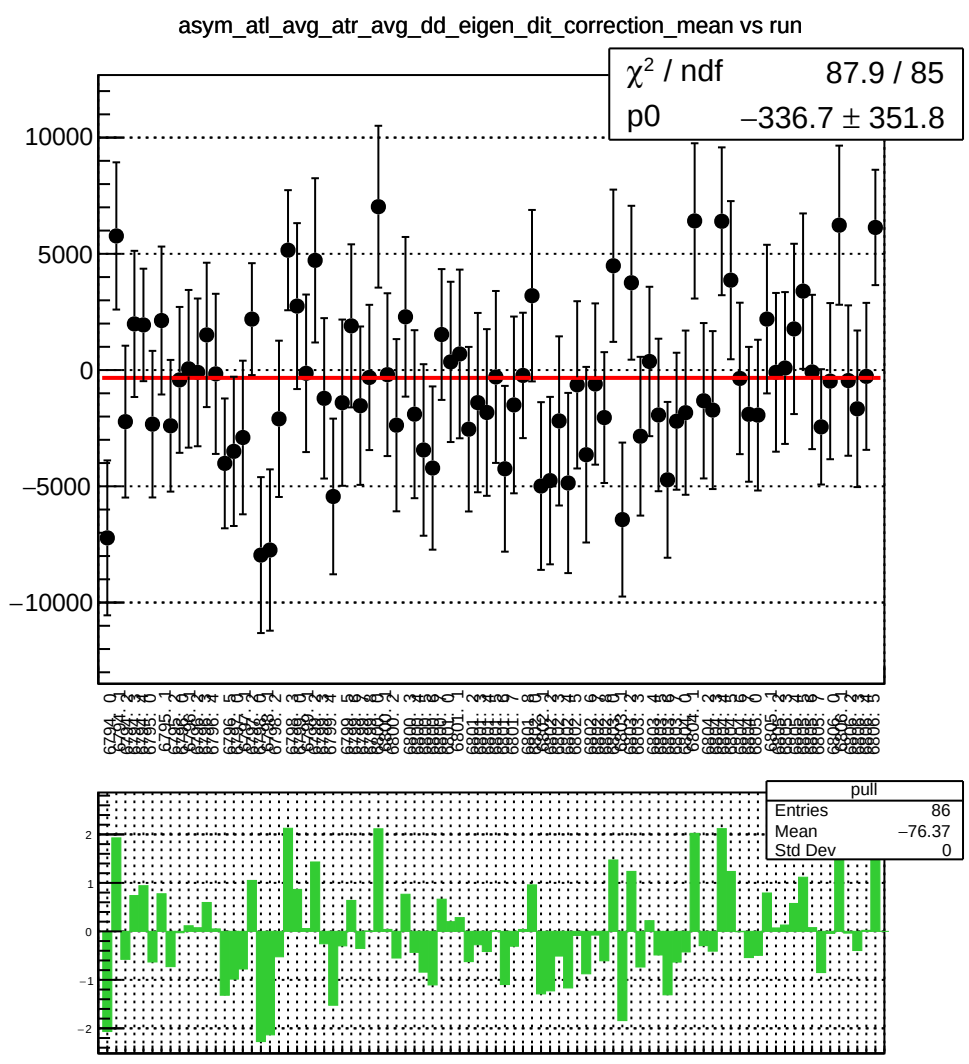

pull1D
Entries 86
Mean −0.02725
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

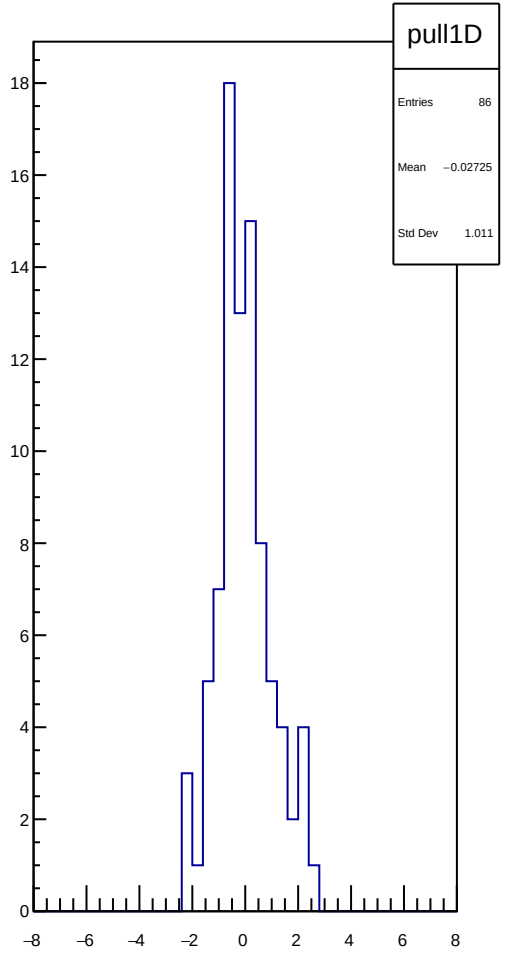

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 4396 / 85
p0 322.2 ± 0.2487
370
360
350
340
330
320
310
300
290

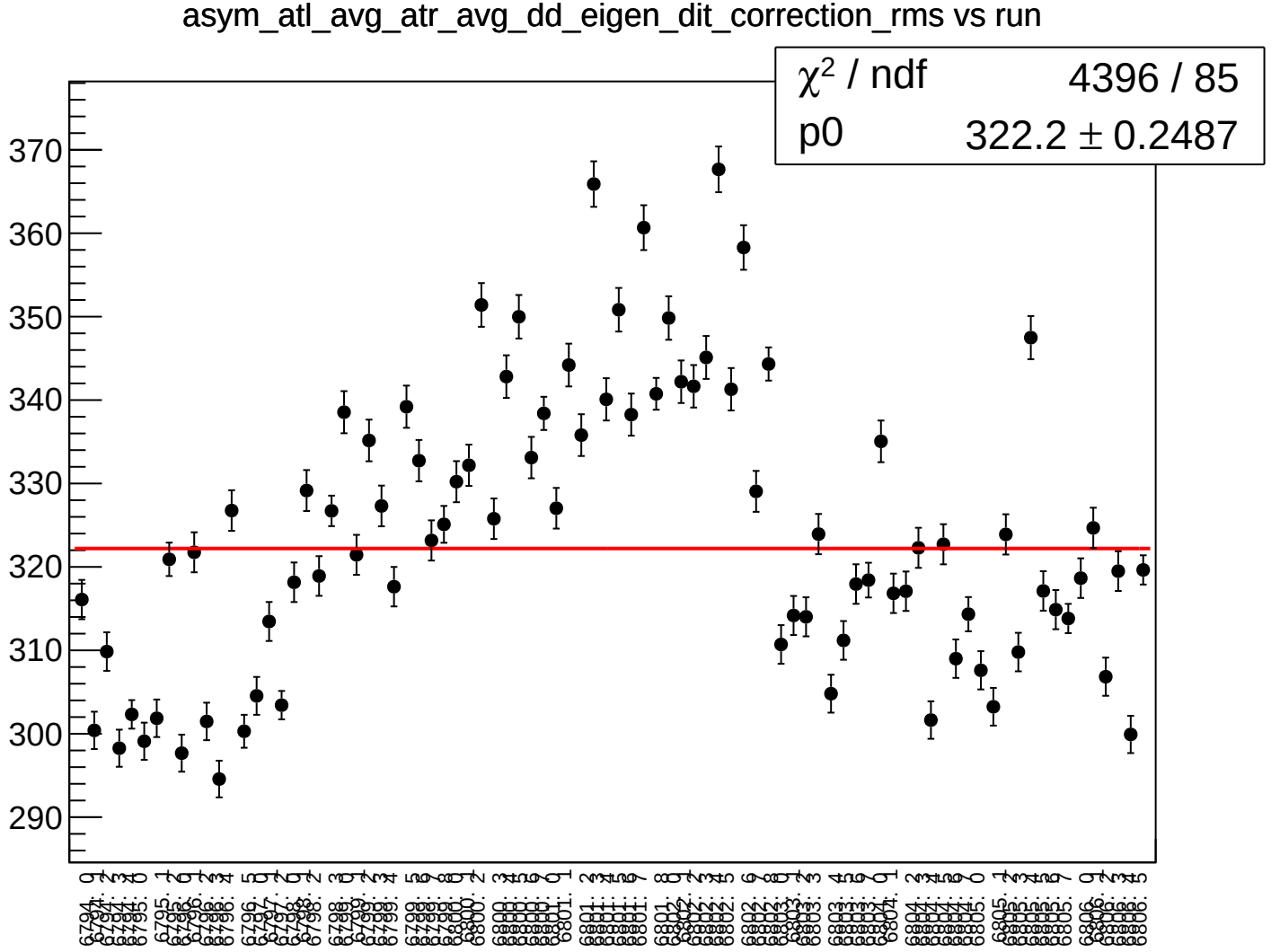

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 94.95 / 85
p0 −390.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2

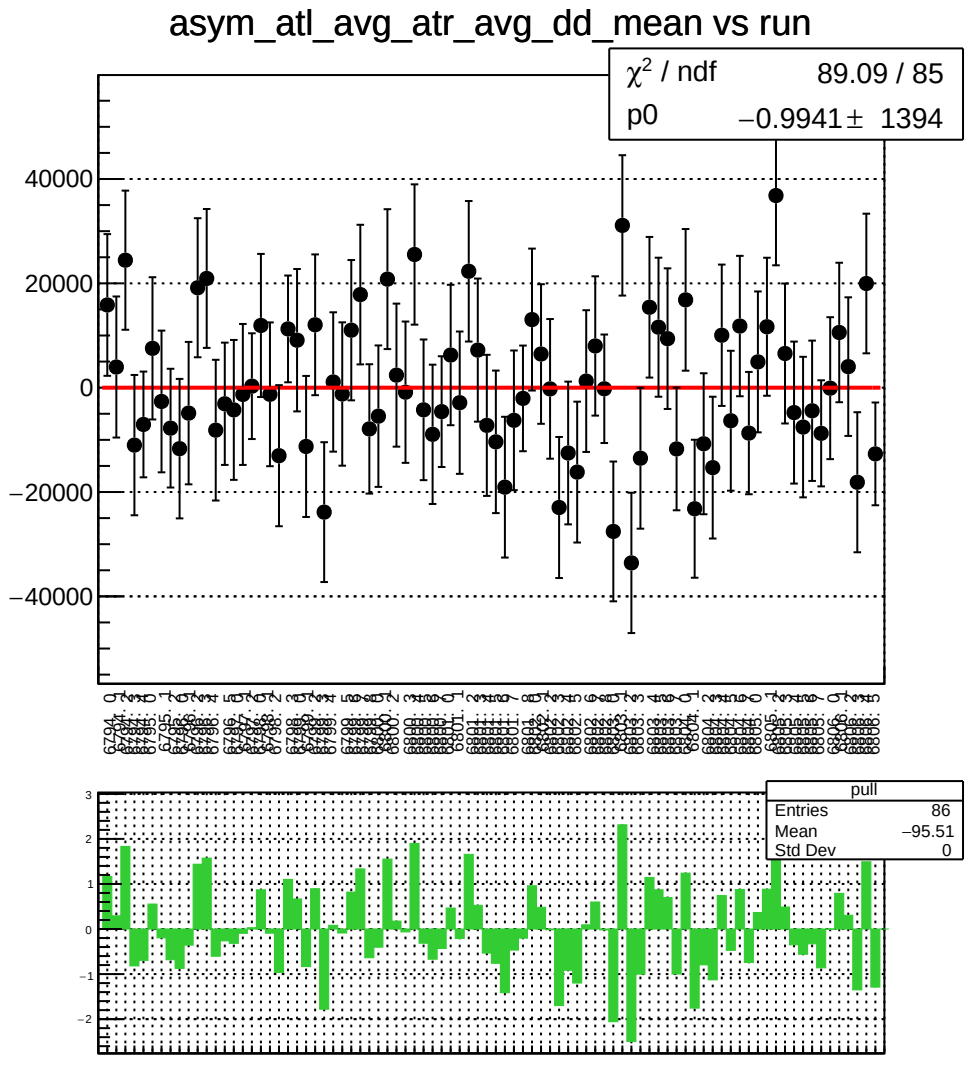

pull1D
Entries 86
Mean 0.009472
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

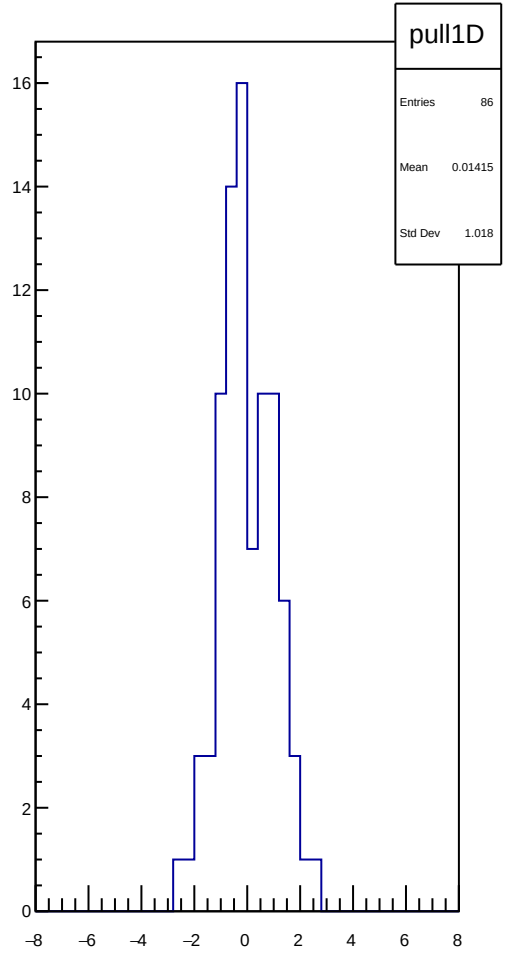

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 98.81 / 85
p0 1244 ± 0.9591
1280
1270
1260
1250
1240
1230
1220
1210

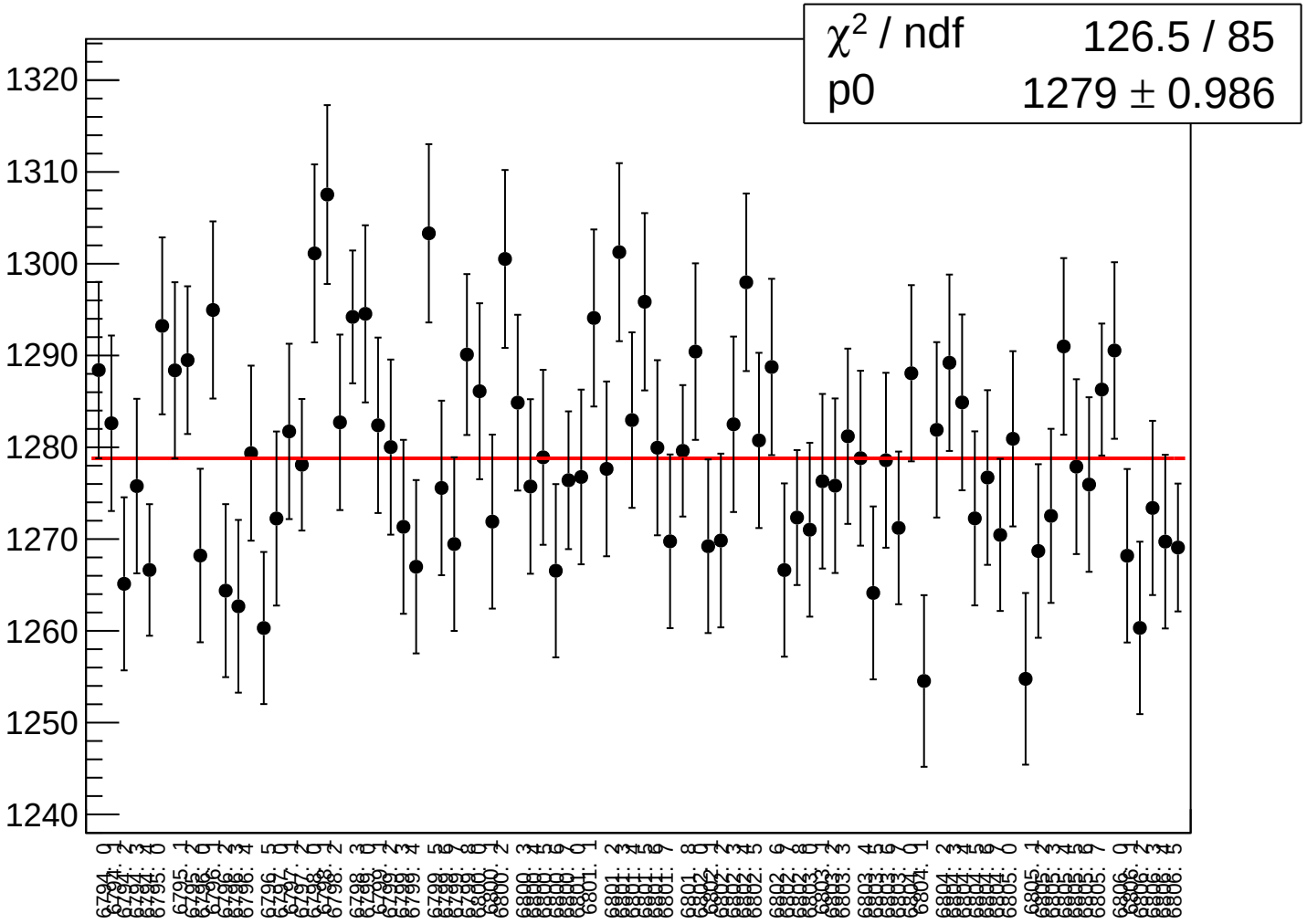

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.9 / 85
p0 −336.7 ± 351.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −76.37
Std Dev 0
2
1
0
−1
−2

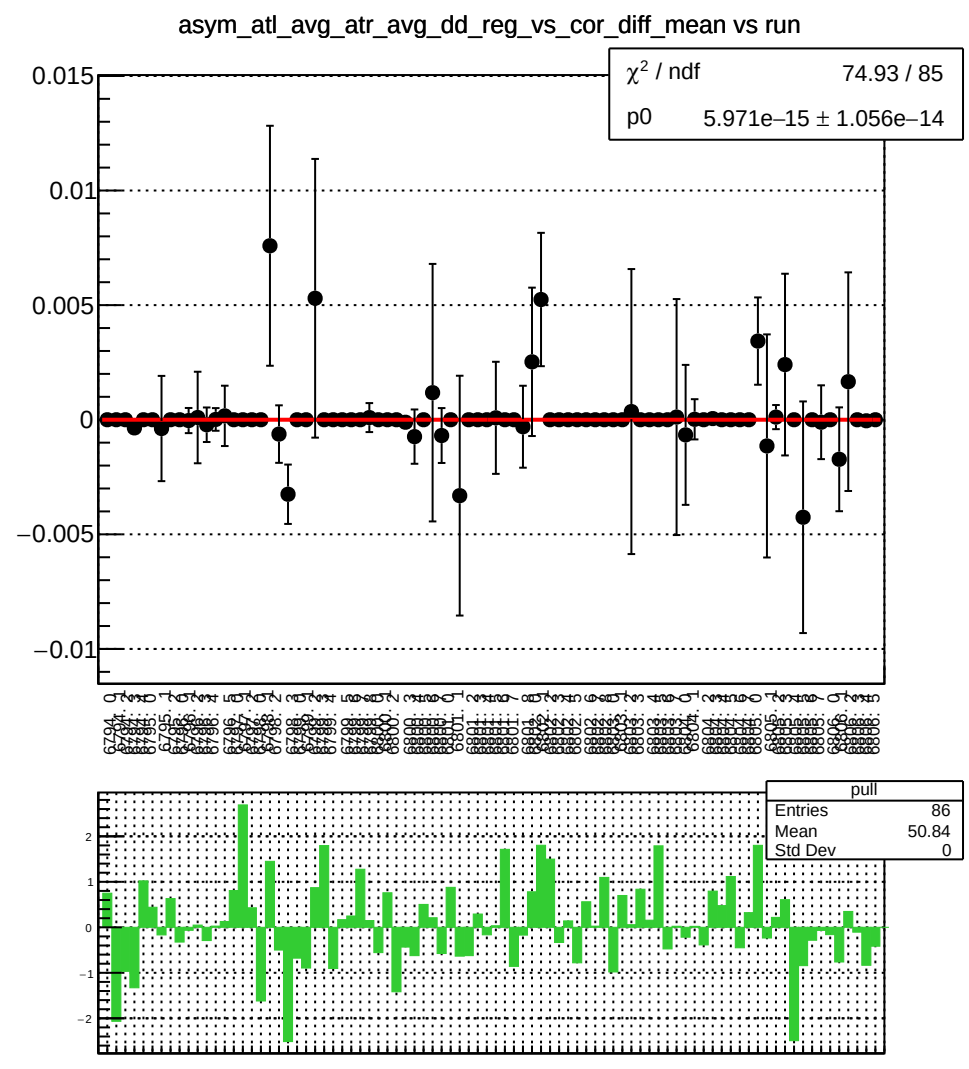

pull1D
Entries 86
Mean −0.02725
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

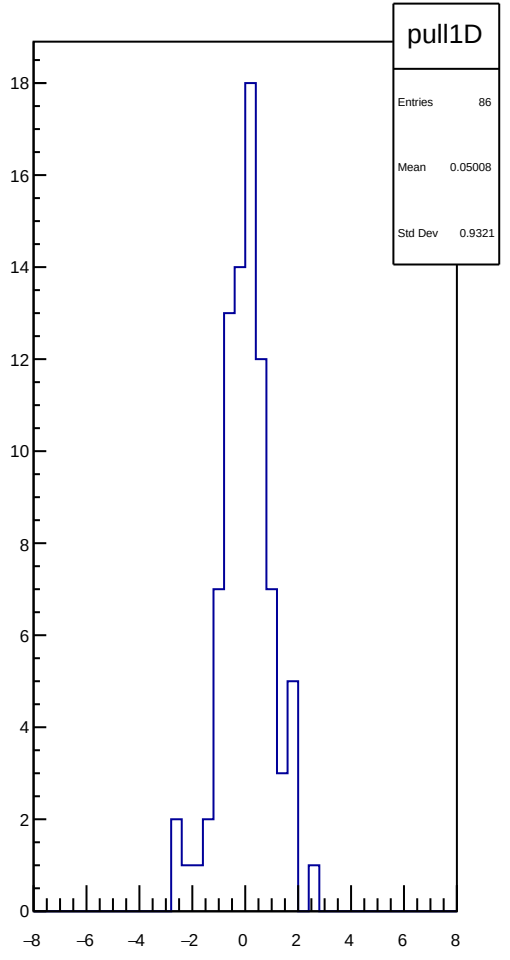

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4396 / 85
p0 322.2 ± 0.2487
370
360
350
340
330
320
310
300
290

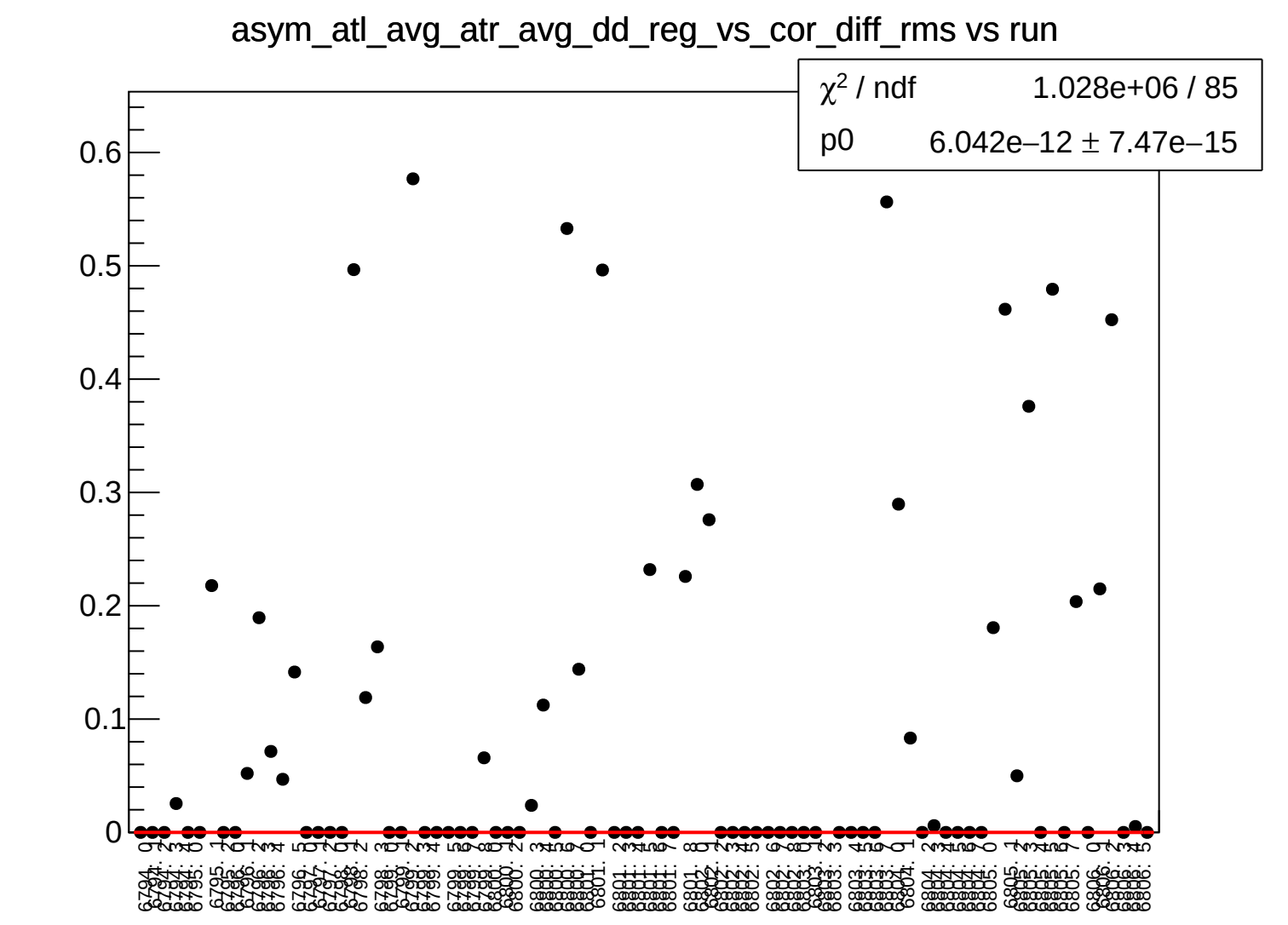

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 89.09 / 85
p0 −0.9941 ± 1394
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −95.51
Std Dev 0
3
2
1
0
−1
−2

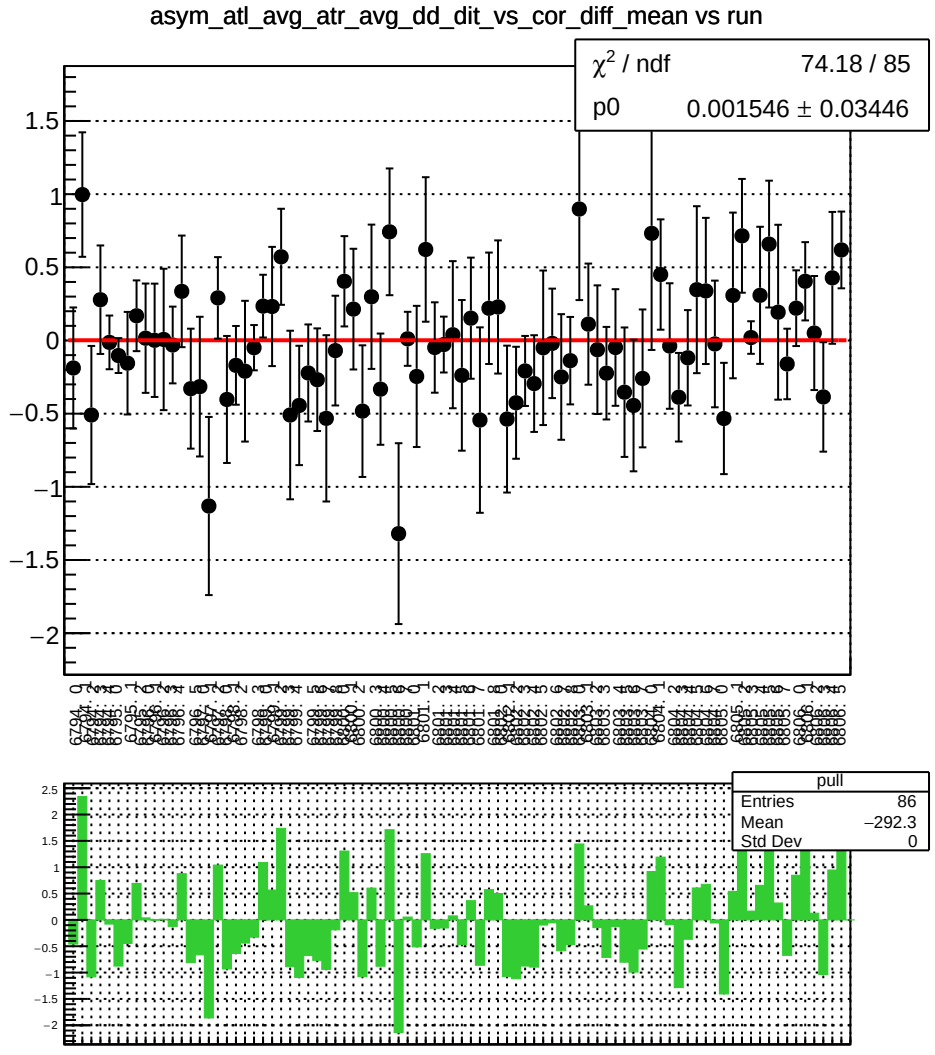

pull1D
Entries 86
Mean 0.01415
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

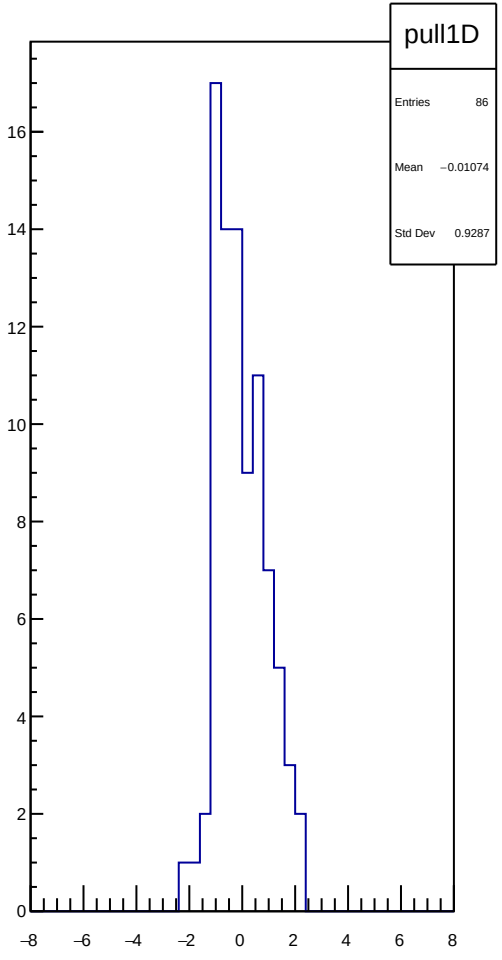

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 126.5 / 85
p0 1279 ± 0.986
1320
1310
1300
1290
1280
1270
1260
1250
1240

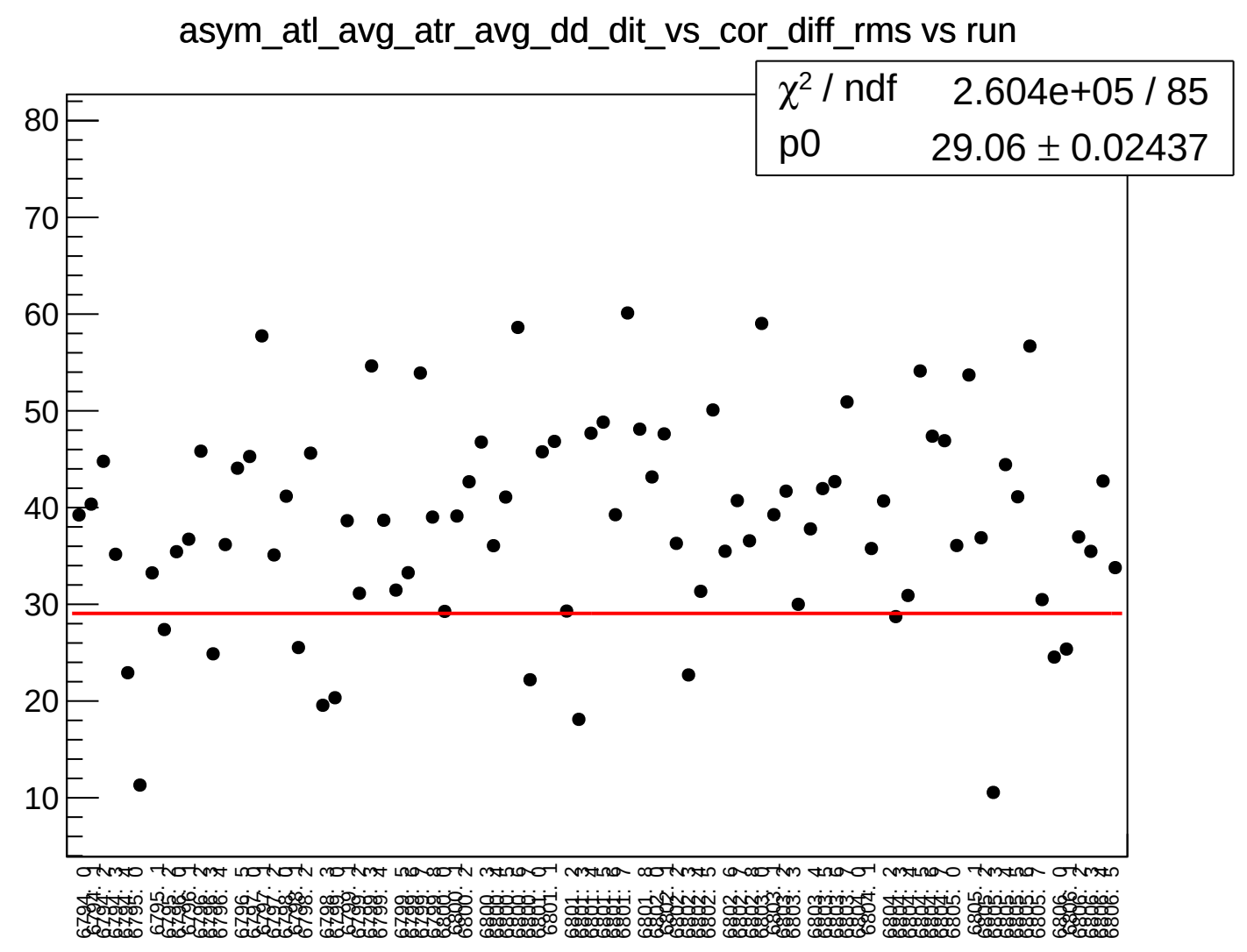

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 5.971e−15 ± 1.056e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 50.84
Std Dev 0
2
1
0
−1
−2

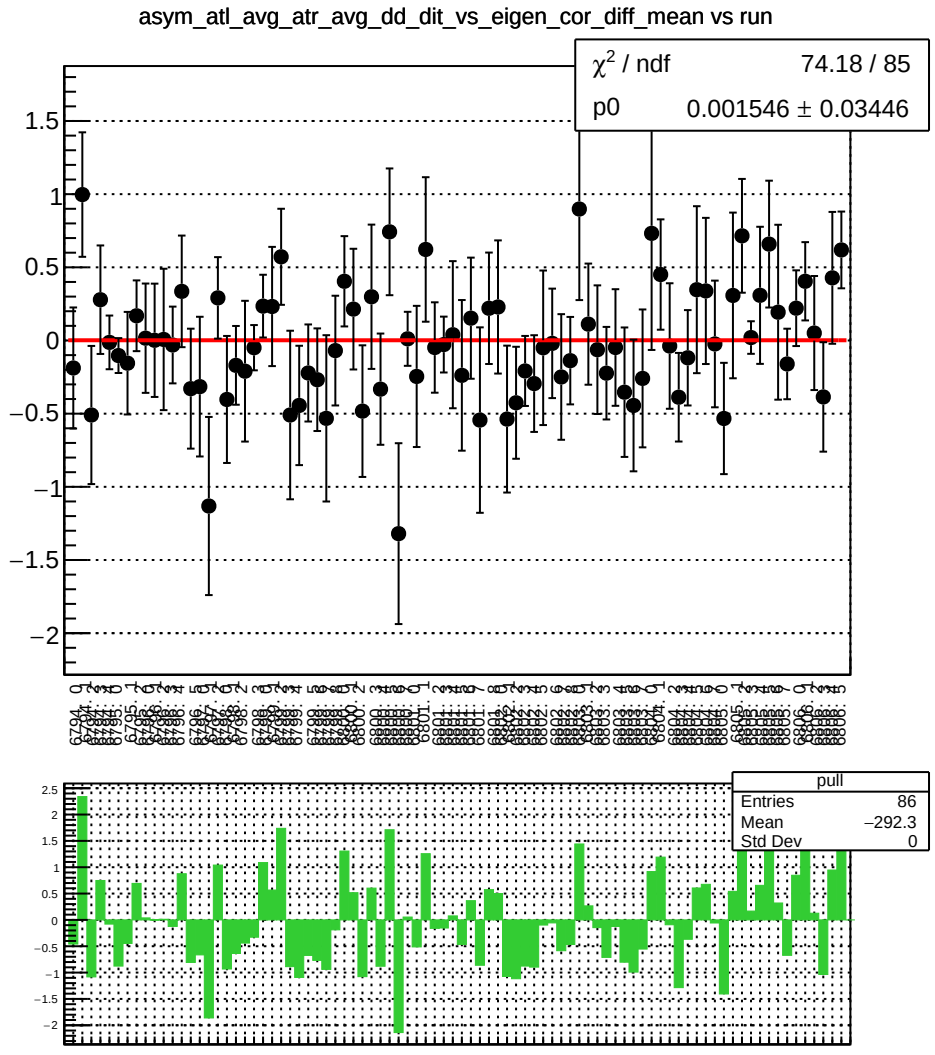

pull1D
Entries 86
Mean 0.05008
Std Dev 0.9321
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

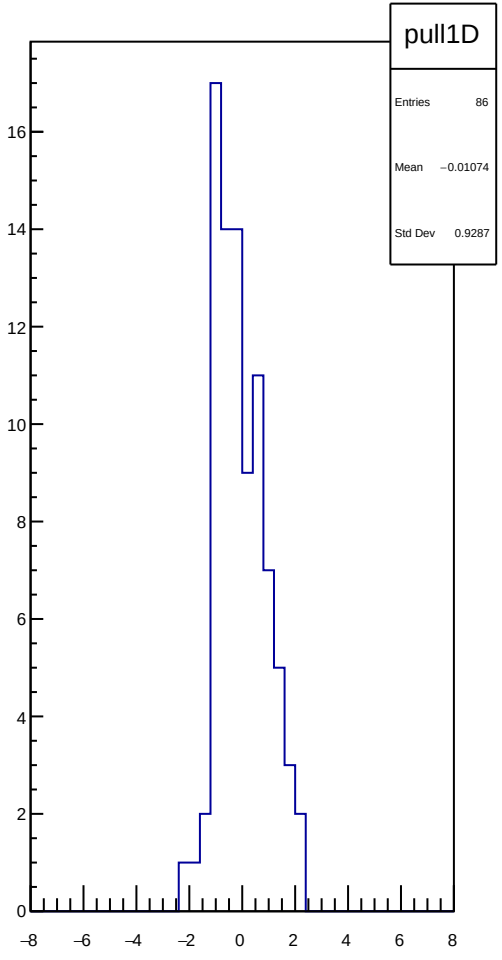

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 85
p0 6.042e−12 ± 7.47e−15
0.6
0.5
0.4
0.3
0.2
0.1
0

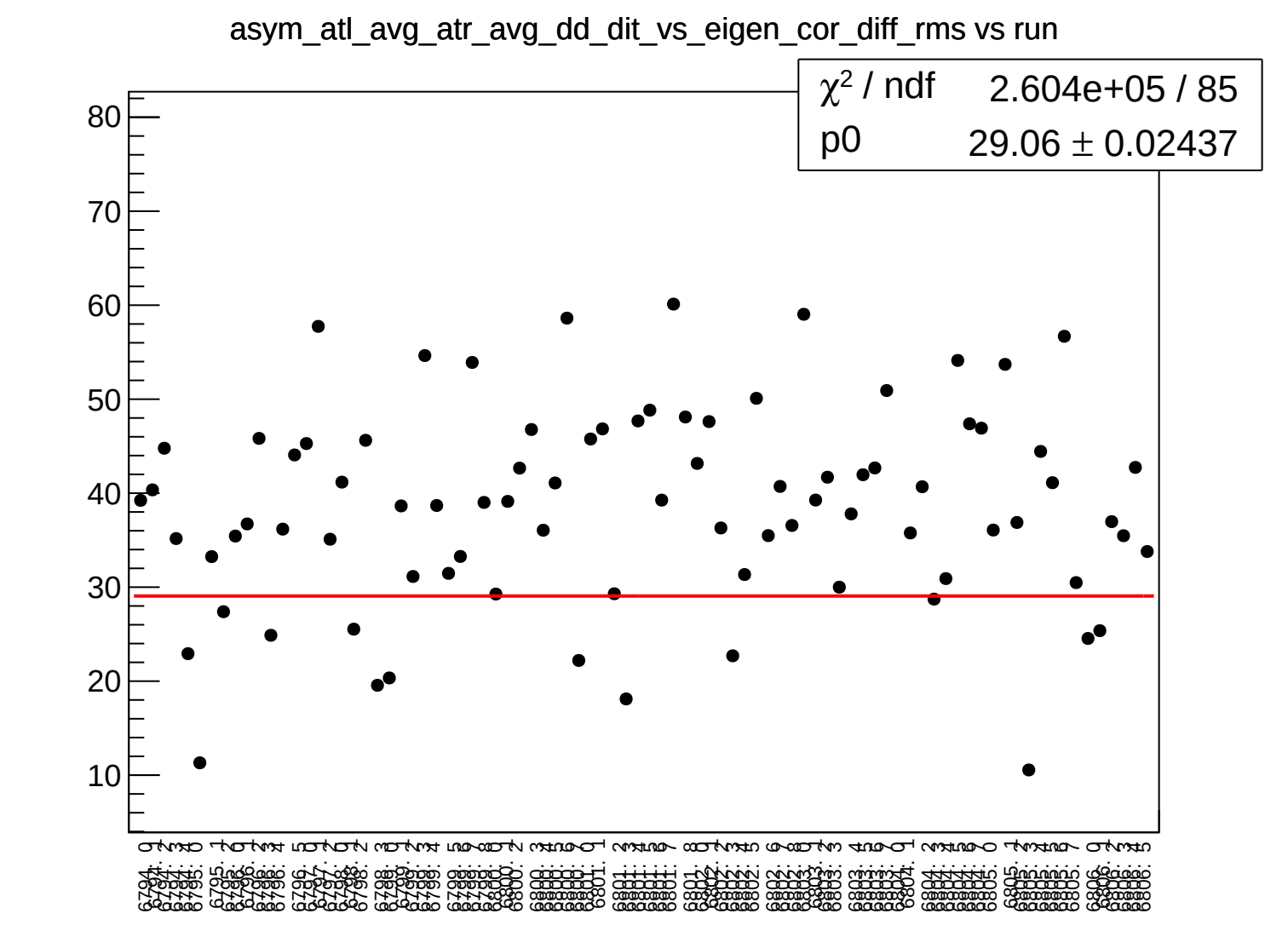

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001546 ± 0.03446
pull
Entries 86
Mean −292.3
Std Dev 0

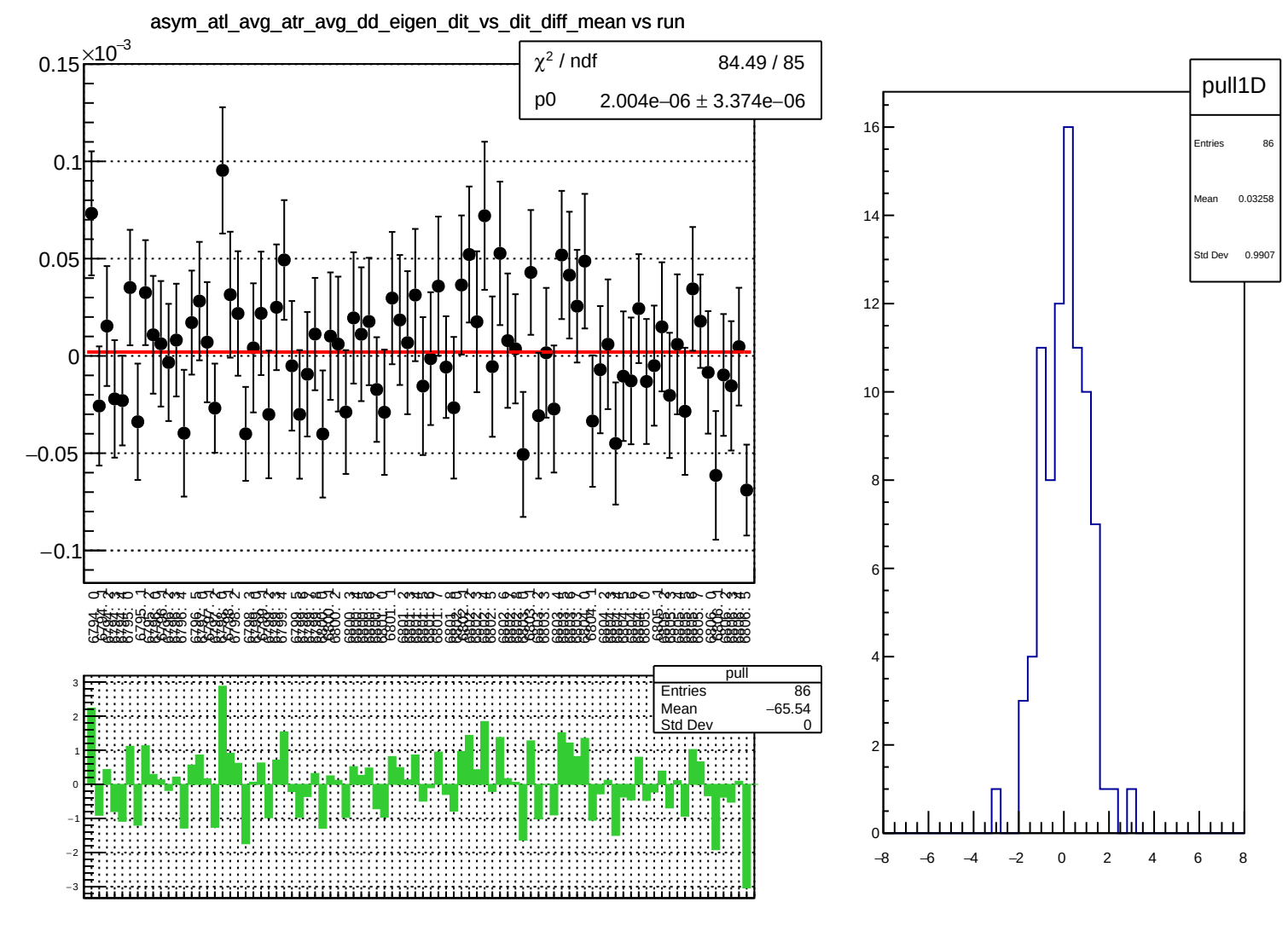

pull1D
Entries 86
Mean −0.01074
Std Dev 0.9287

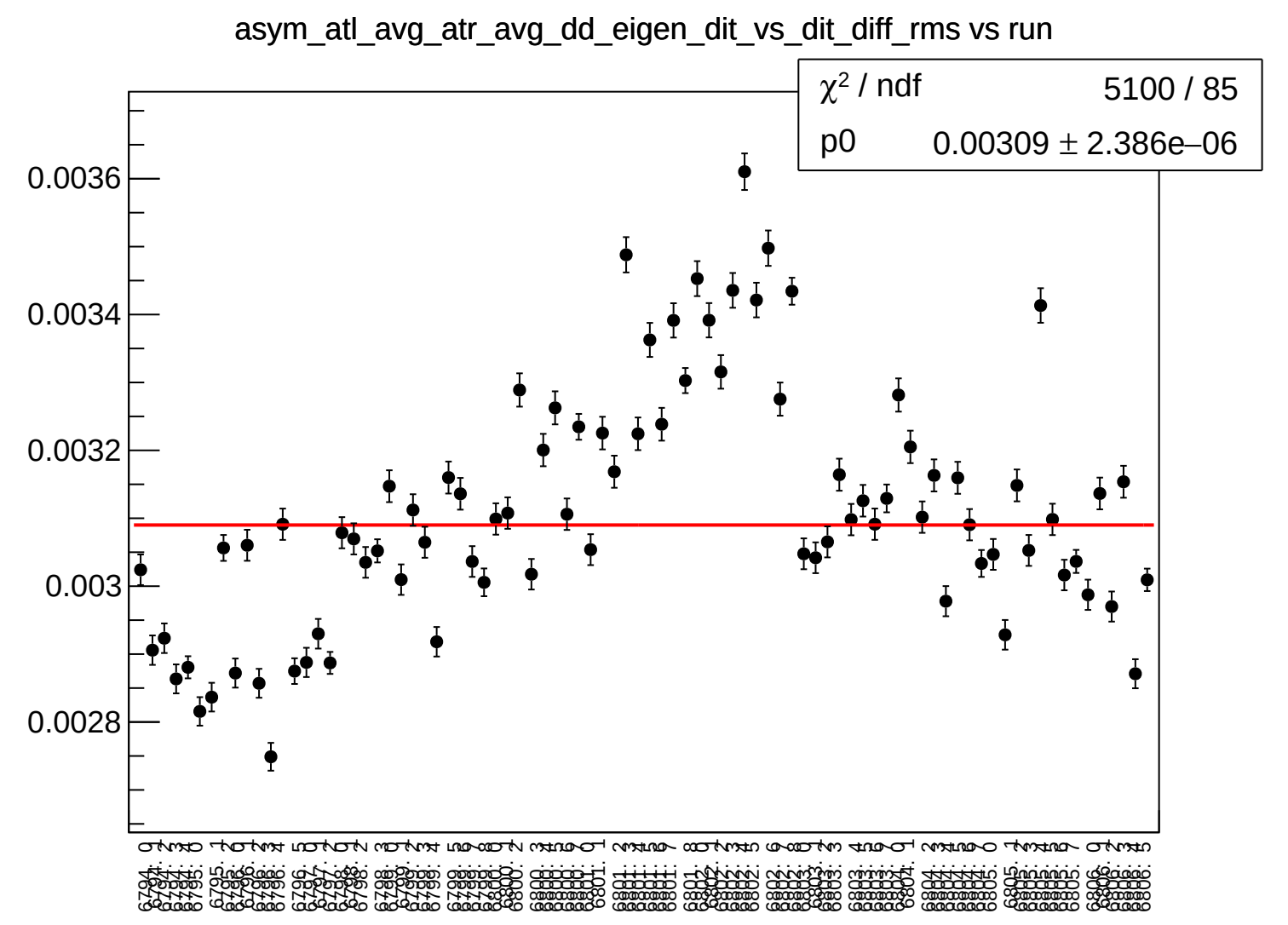

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

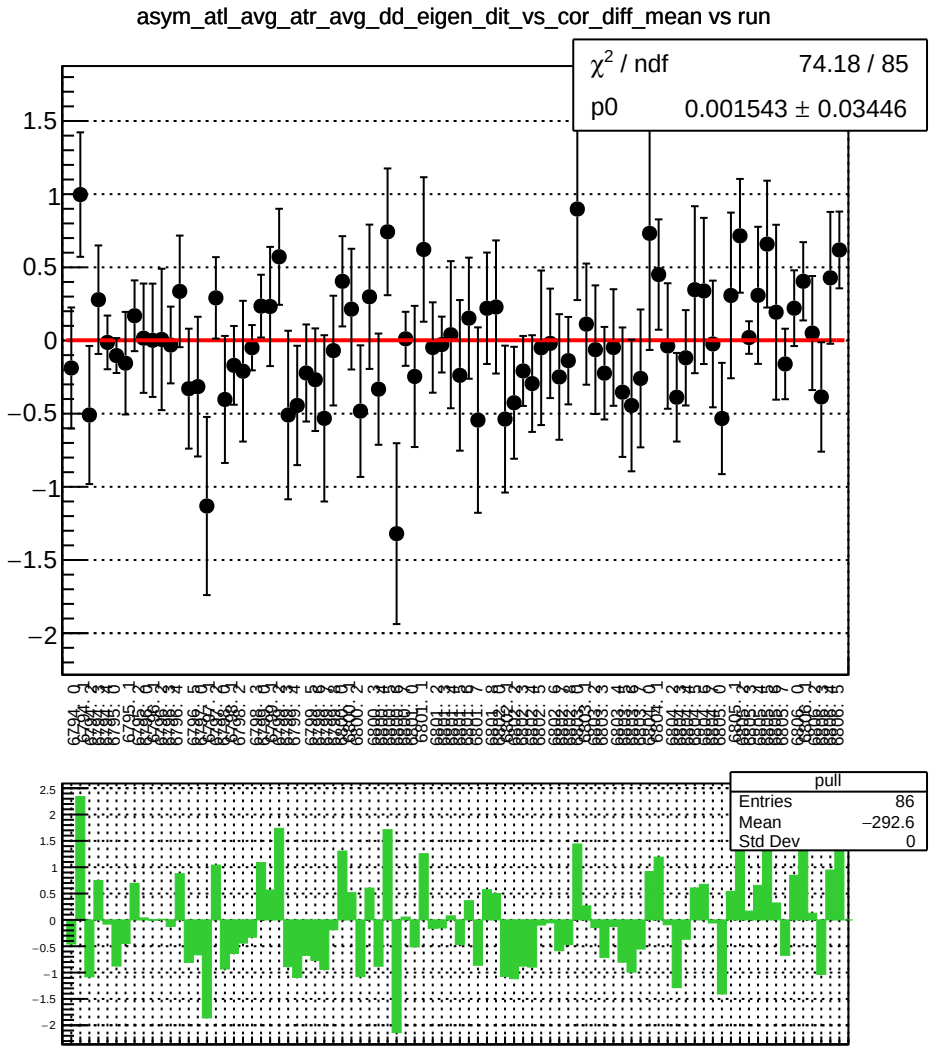

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001546 ± 0.03446
pull
Entries 86
Mean −292.3
Std Dev 0

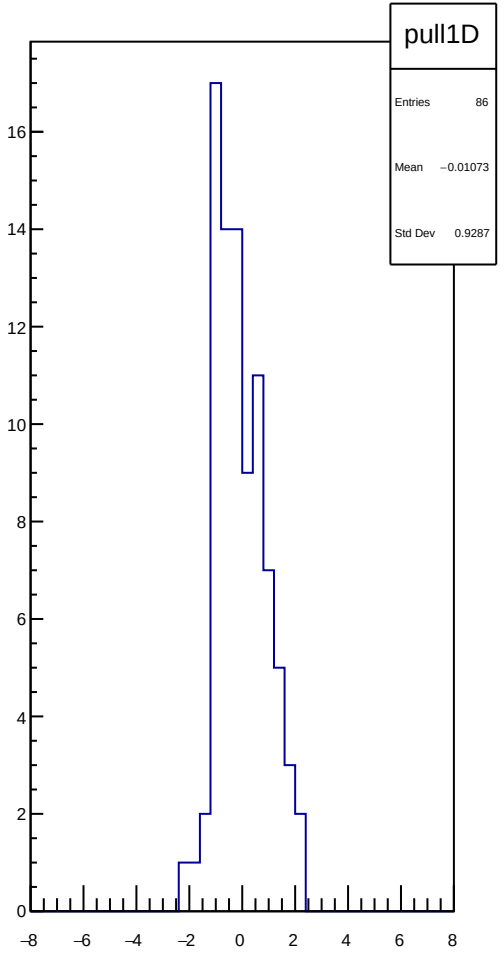

pull1D
Entries 86
Mean −0.01074
Std Dev 0.9287

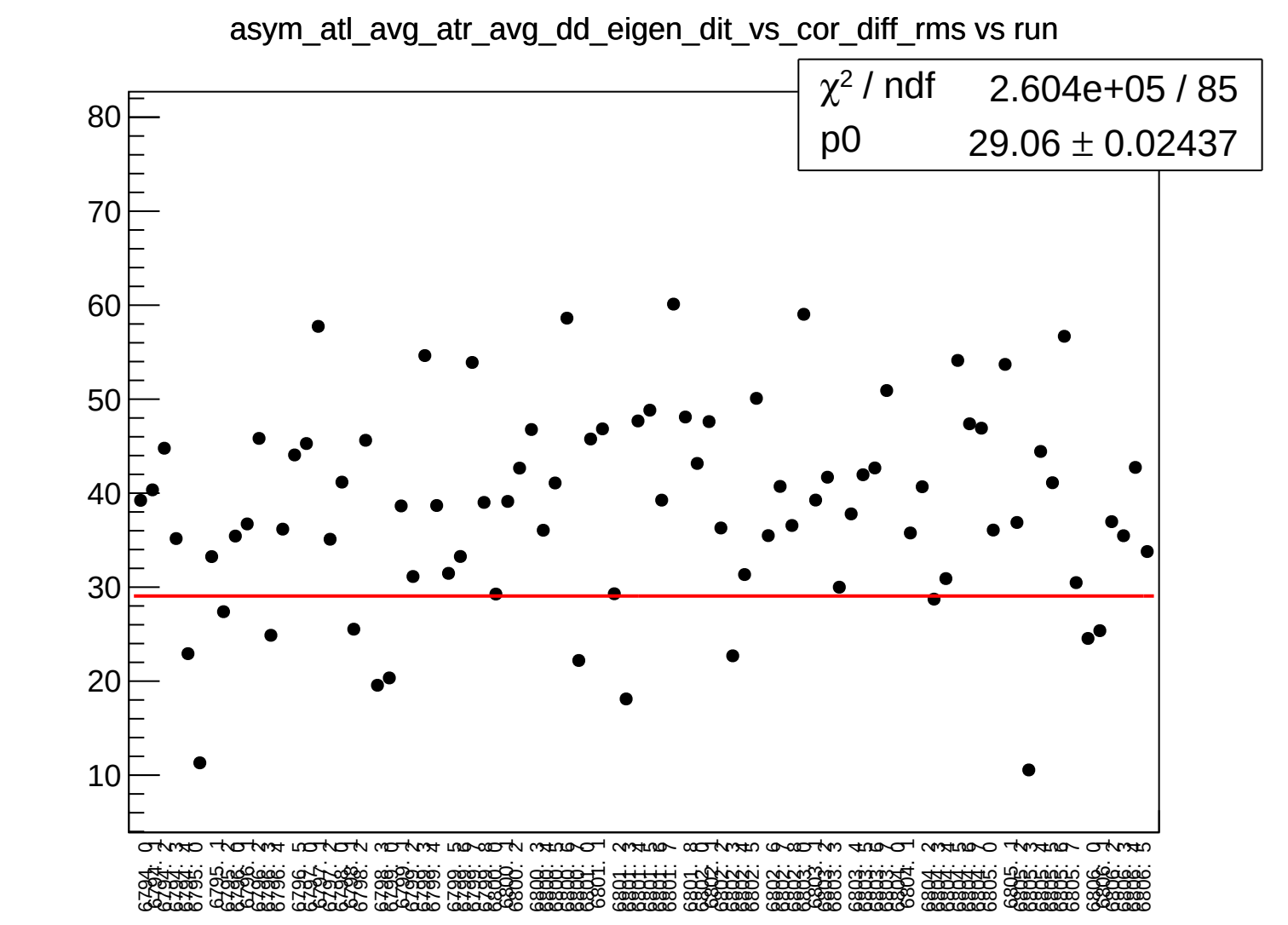

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

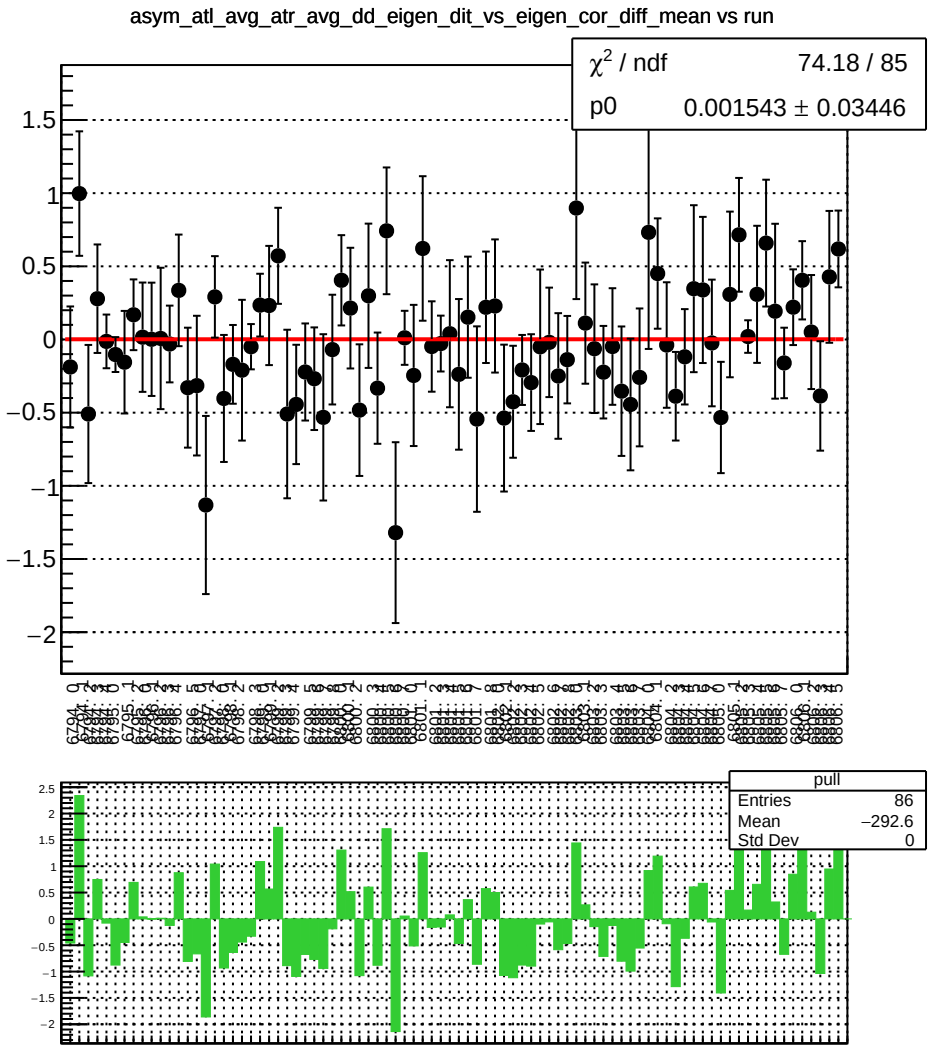

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.49 / 85
p0 2.004e−06 ± 3.374e−06
×10⁻³
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −65.54
Std Dev 0
pull1D
Entries 86
Mean 0.03258
Std Dev 0.9907

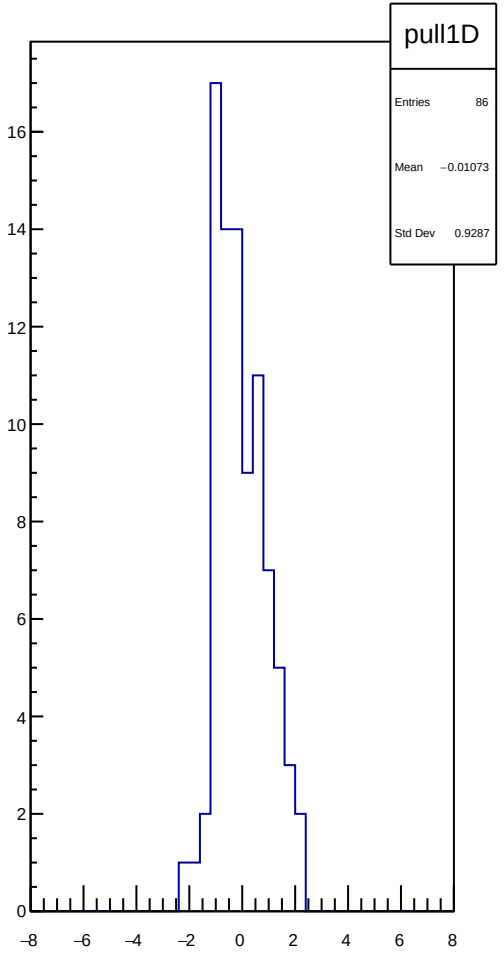

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5100 / 85
p0 0.00309 ± 2.386e–06
0.0036
0.0034
0.0032
0.003
0.0028

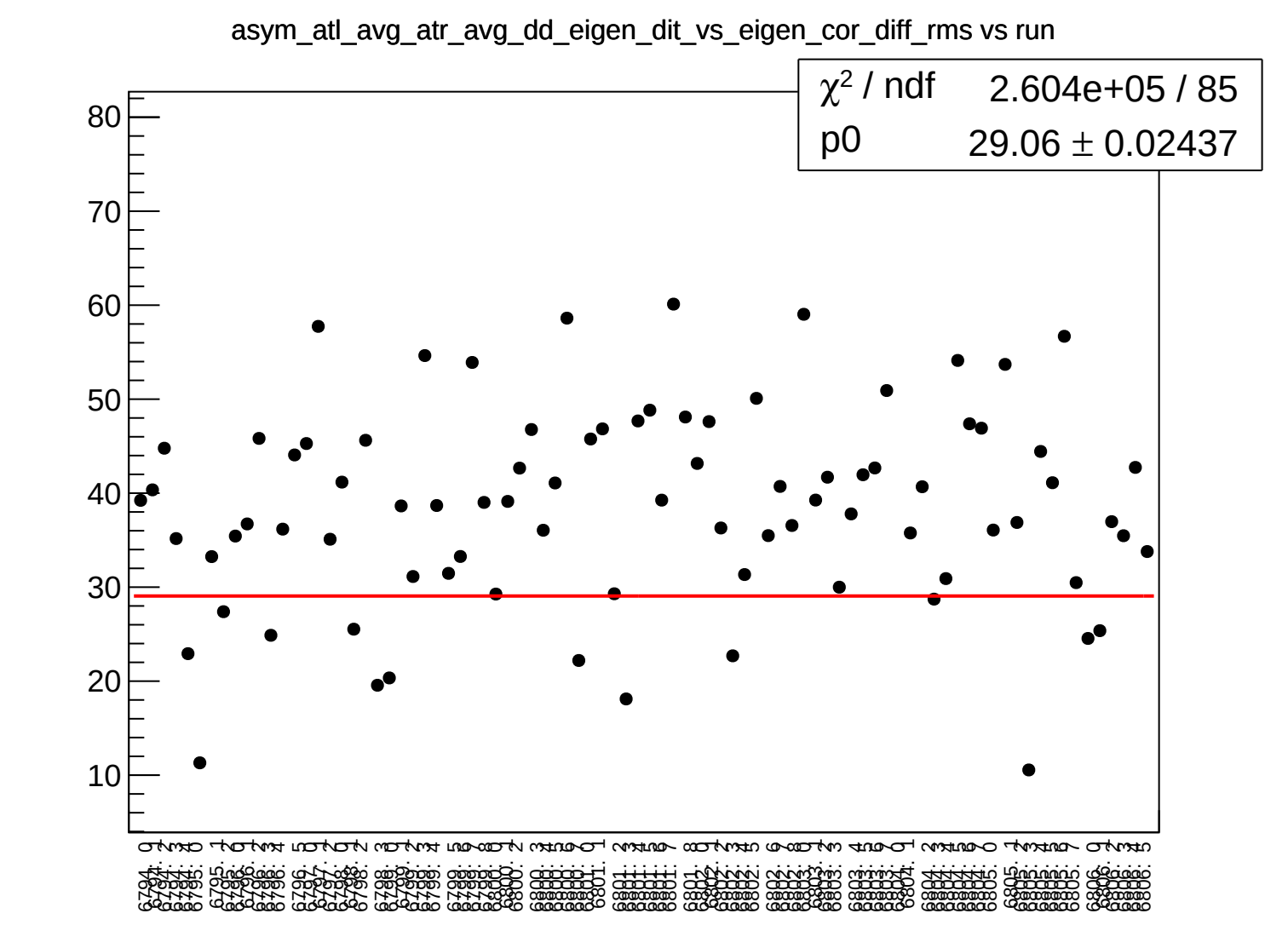

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001543 ± 0.03446
pull
Entries 86
Mean −292.6
Std Dev 0

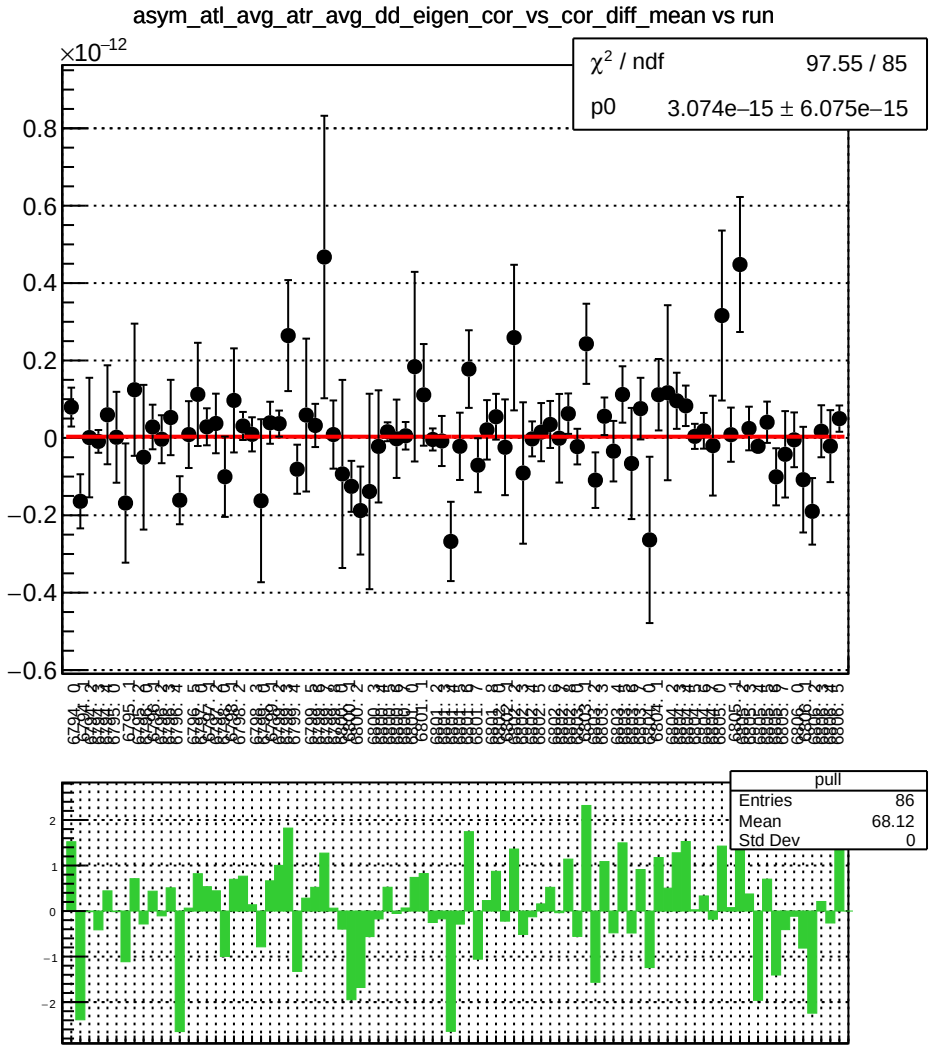

pull1D
Entries 86
Mean −0.01073
Std Dev 0.9287

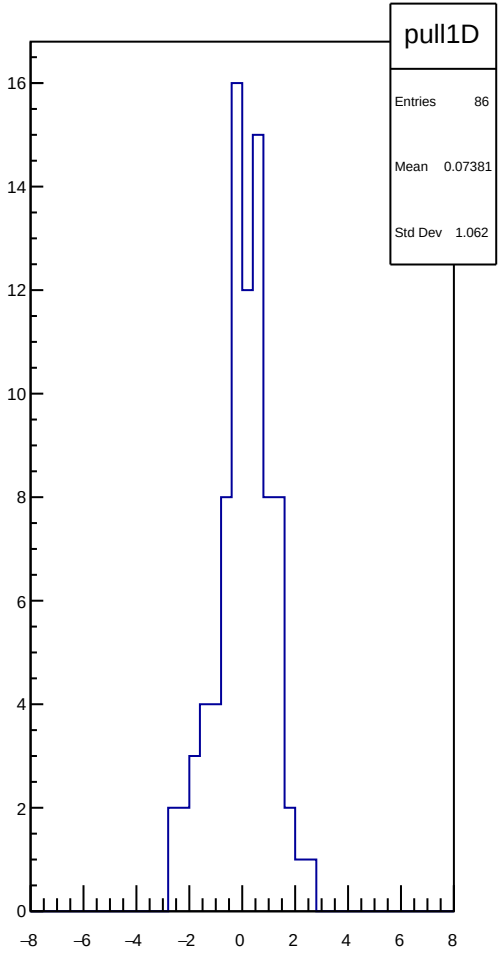

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

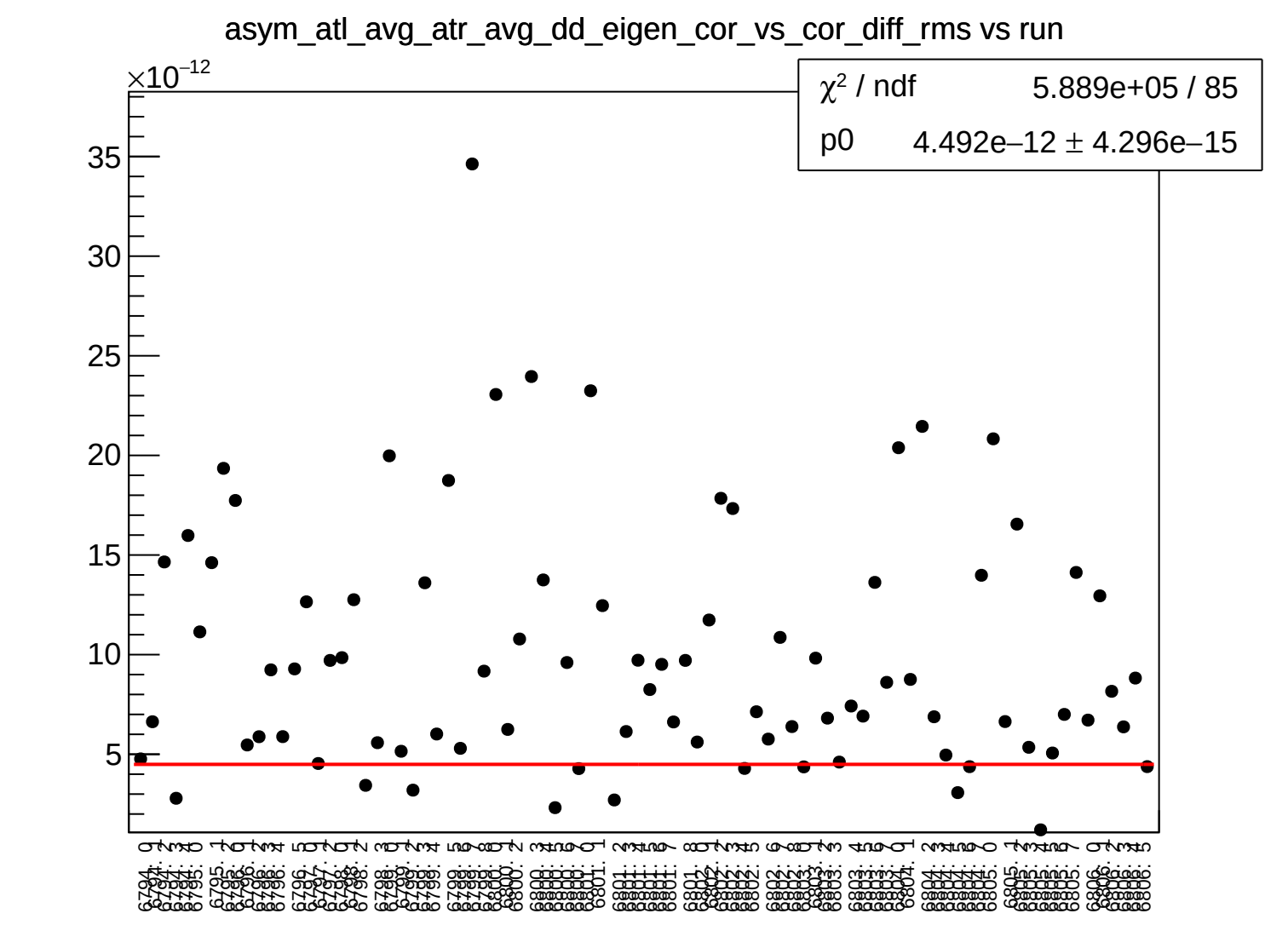

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001543 ± 0.03446
pull
Entries 86
Mean −292.6
Std Dev 0

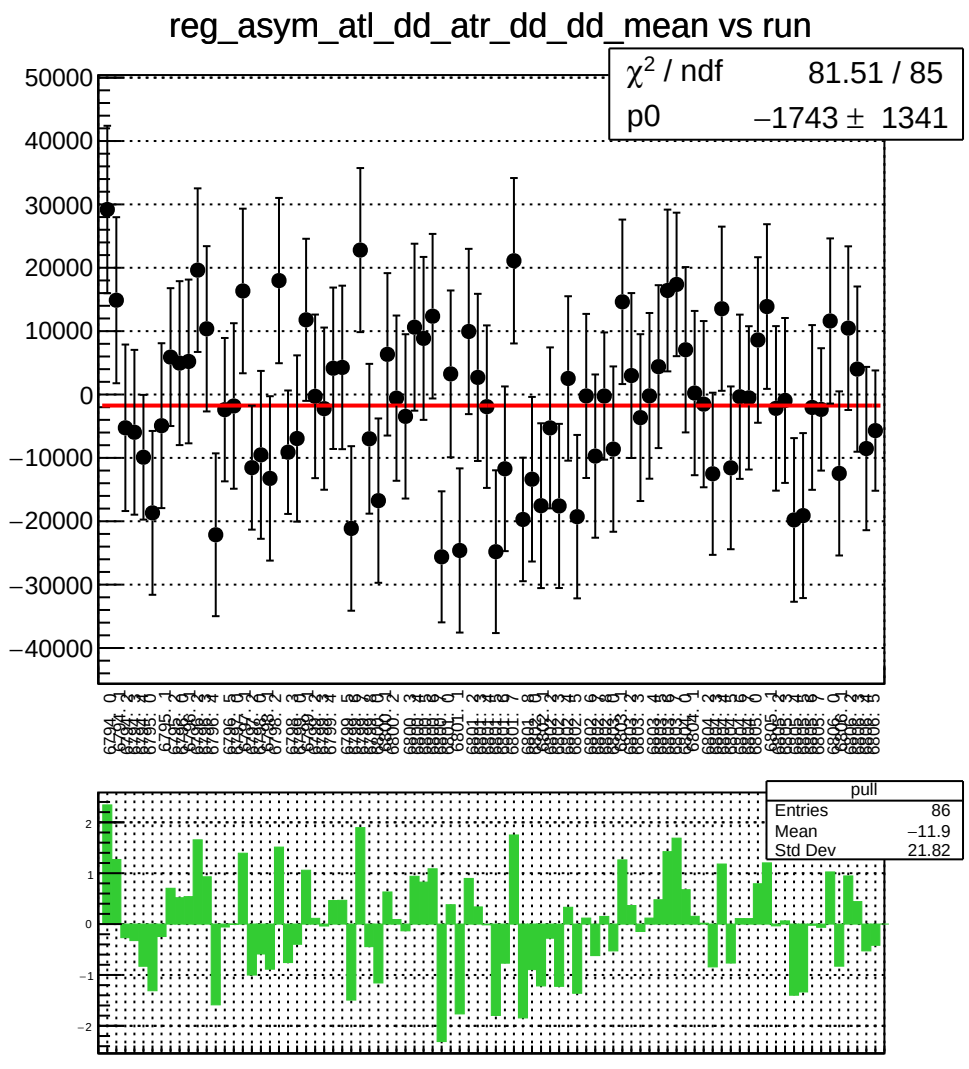

pull1D
Entries 86
Mean −0.01073
Std Dev 0.9287

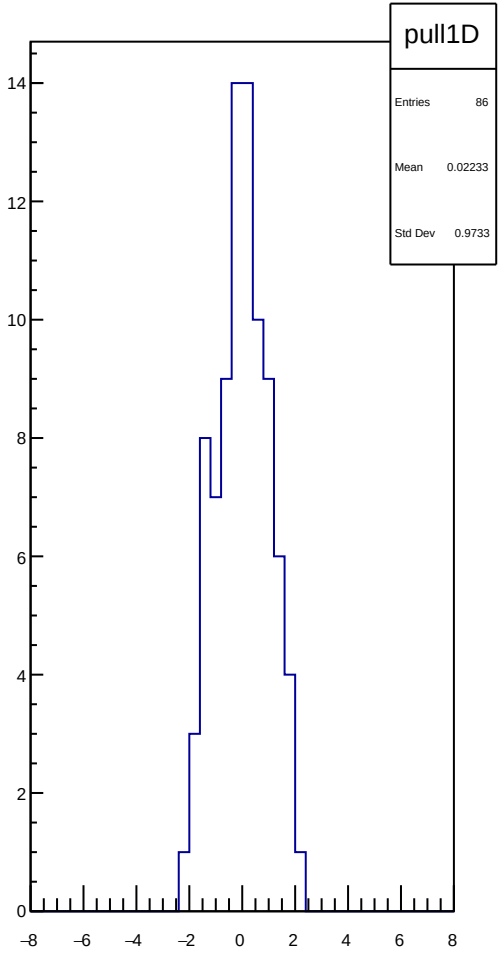

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

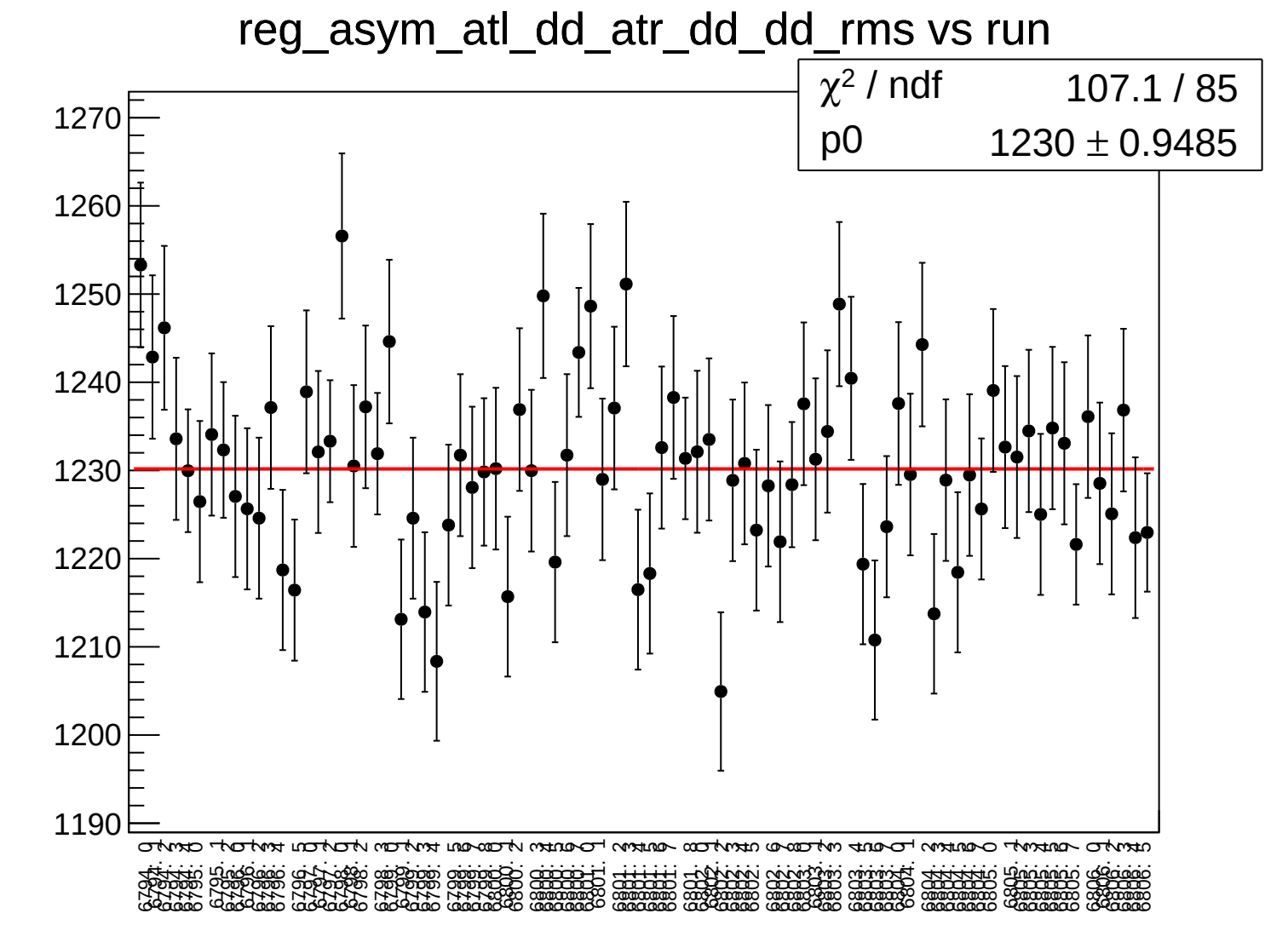

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.55 / 85
p0 3.074e−15 ± 6.075e−15
pull
Entries 86
Mean 68.12
Std Dev 0

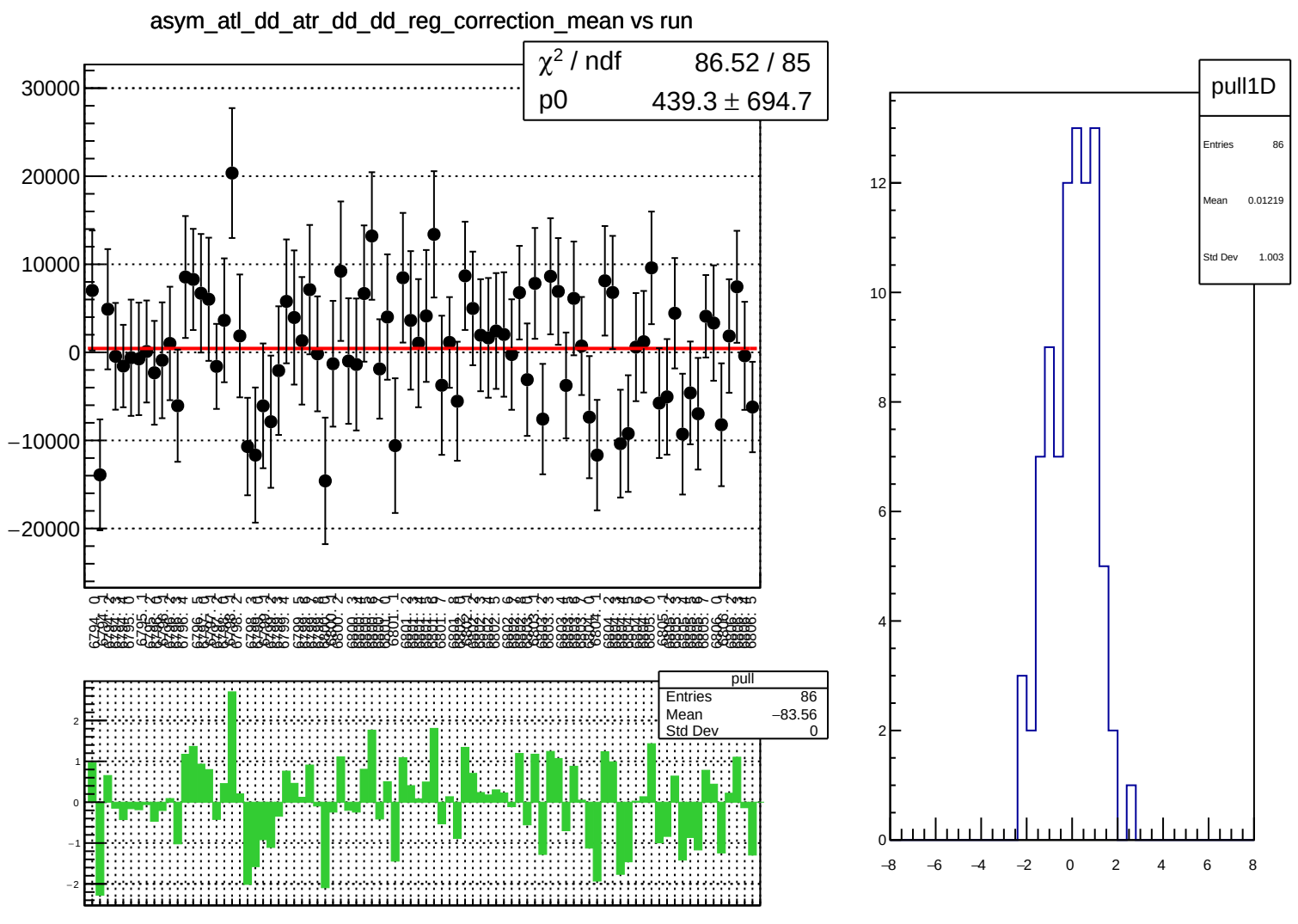

pull1D
Entries 86
Mean 0.07381
Std Dev 1.062

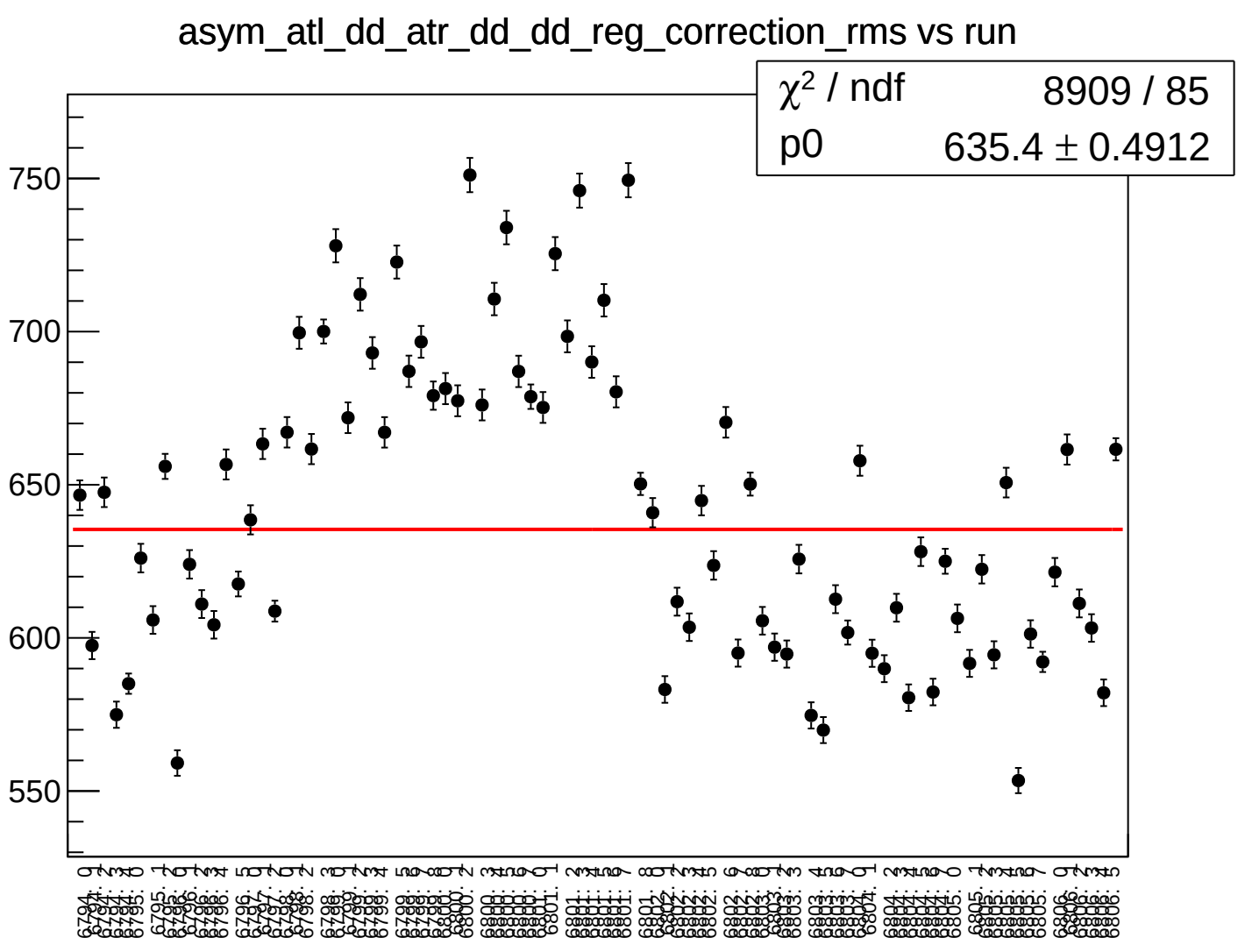

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.889e+05 / 85
p0 4.492e−12 ± 4.296e−15
35
30
25
20
15
10
5

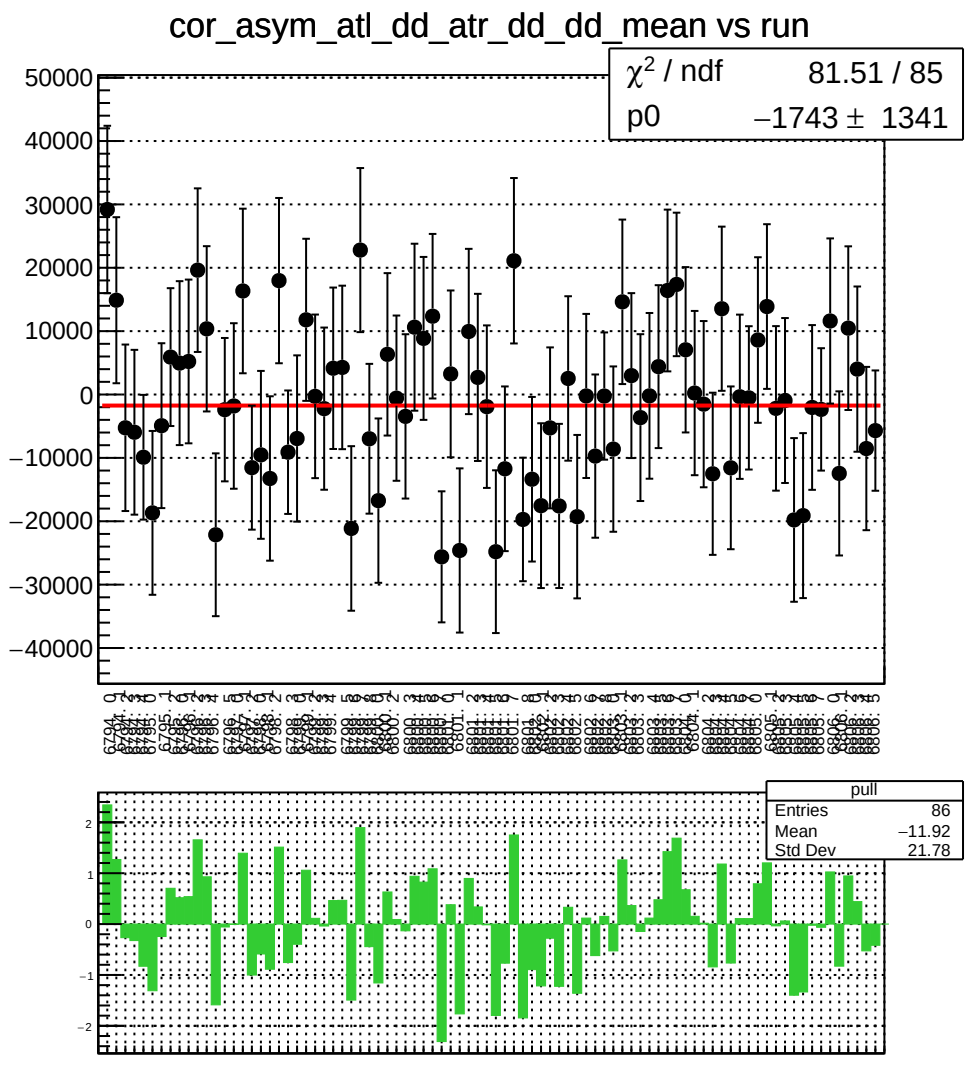

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.9
Std Dev 21.82

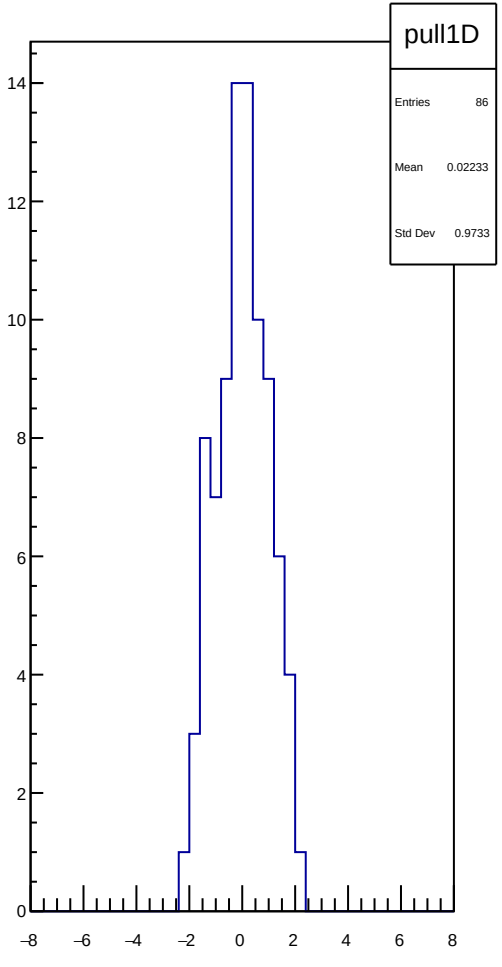

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

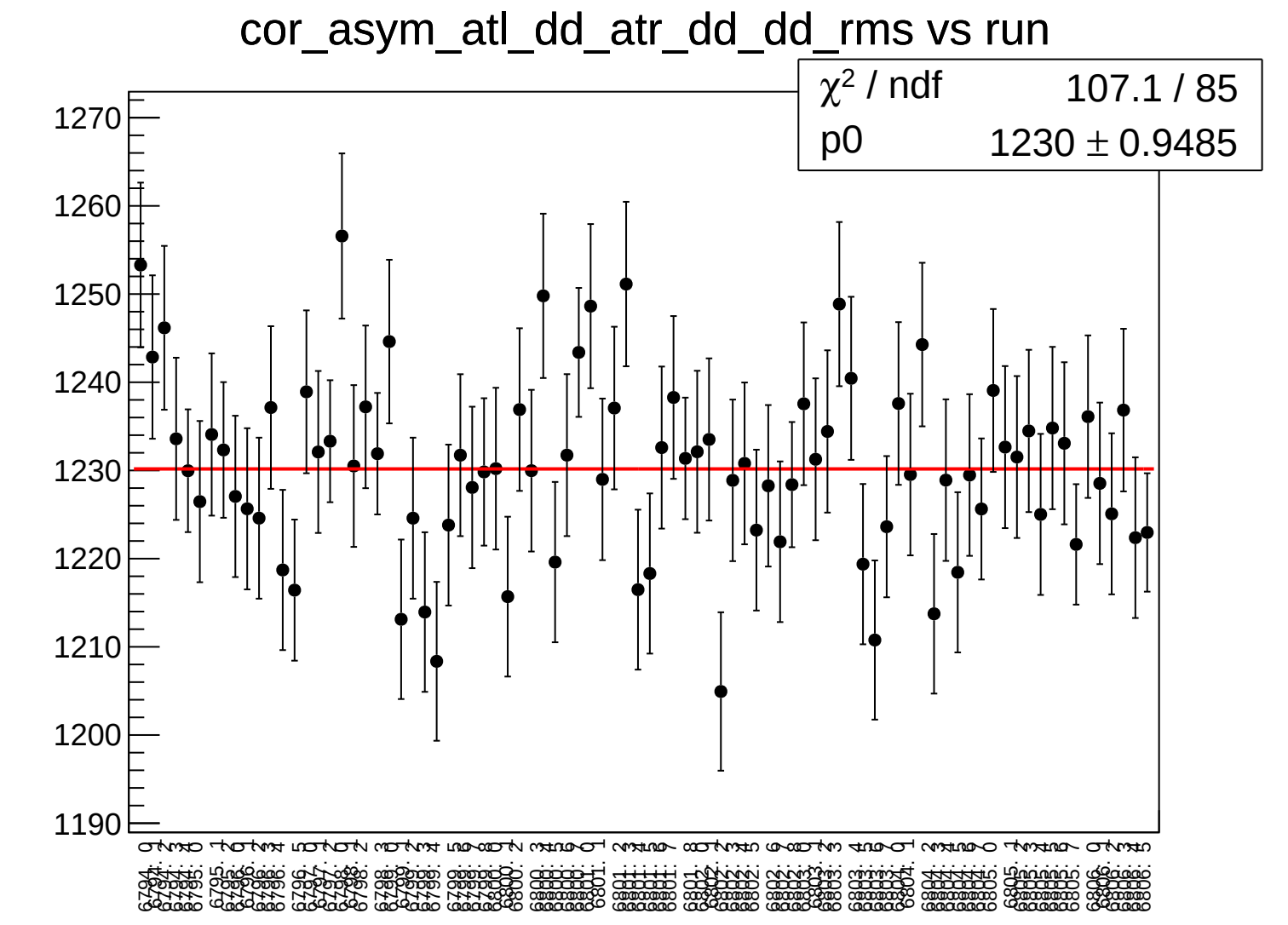

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

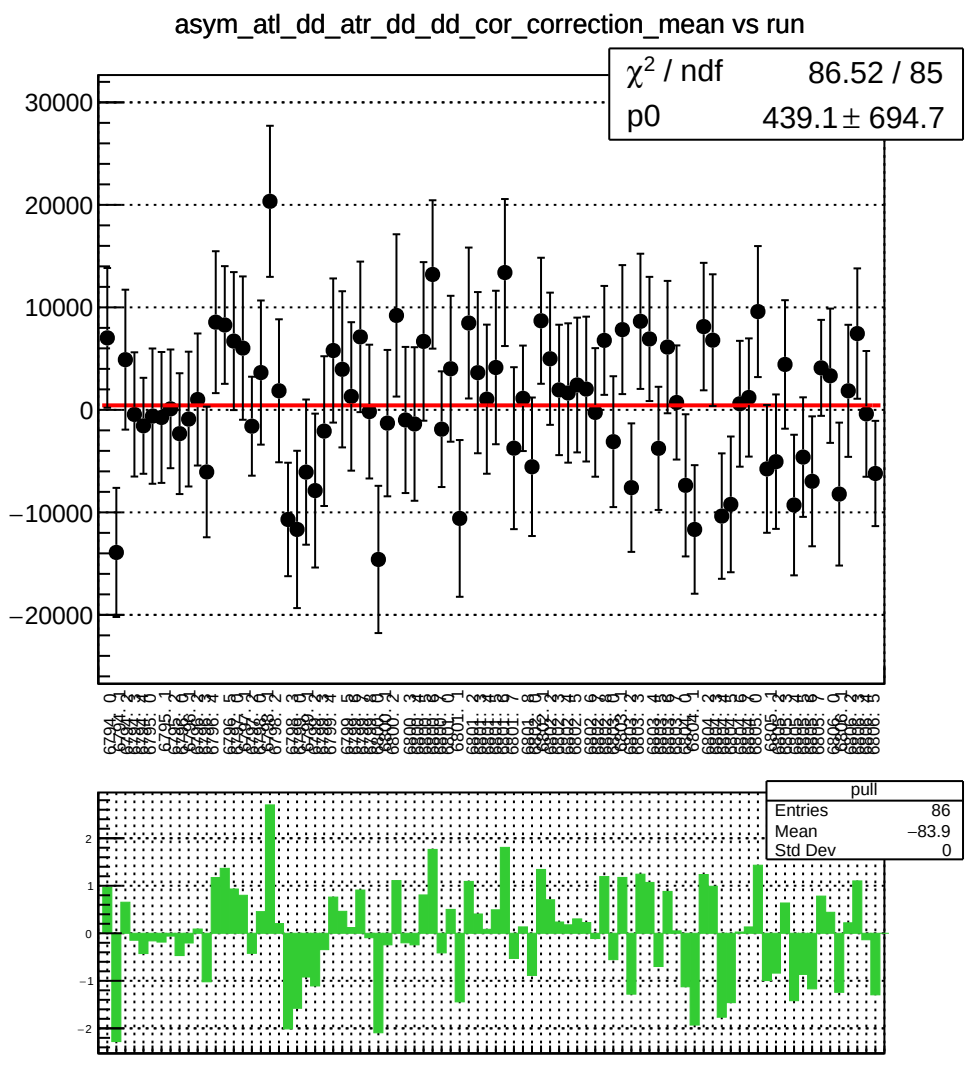

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.3 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.56
Std Dev 0
pull1D
Entries 86
Mean 0.01219
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

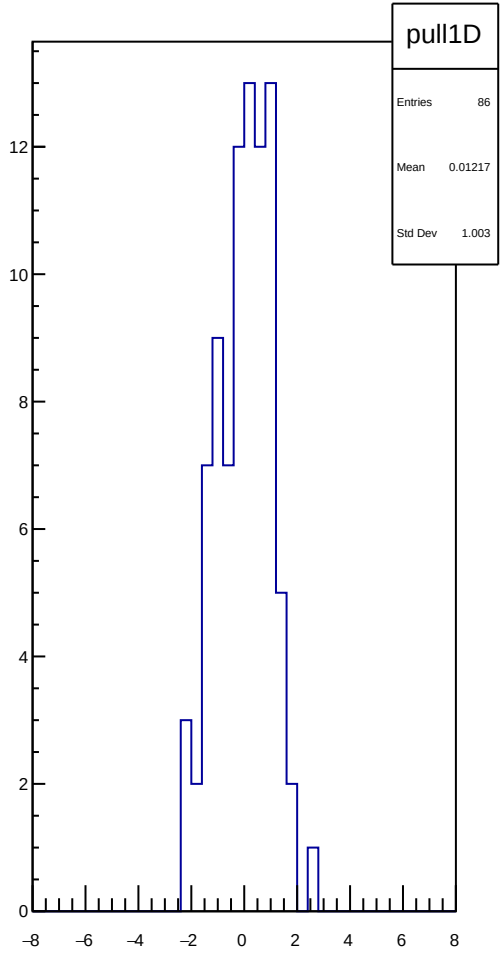

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 8909 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

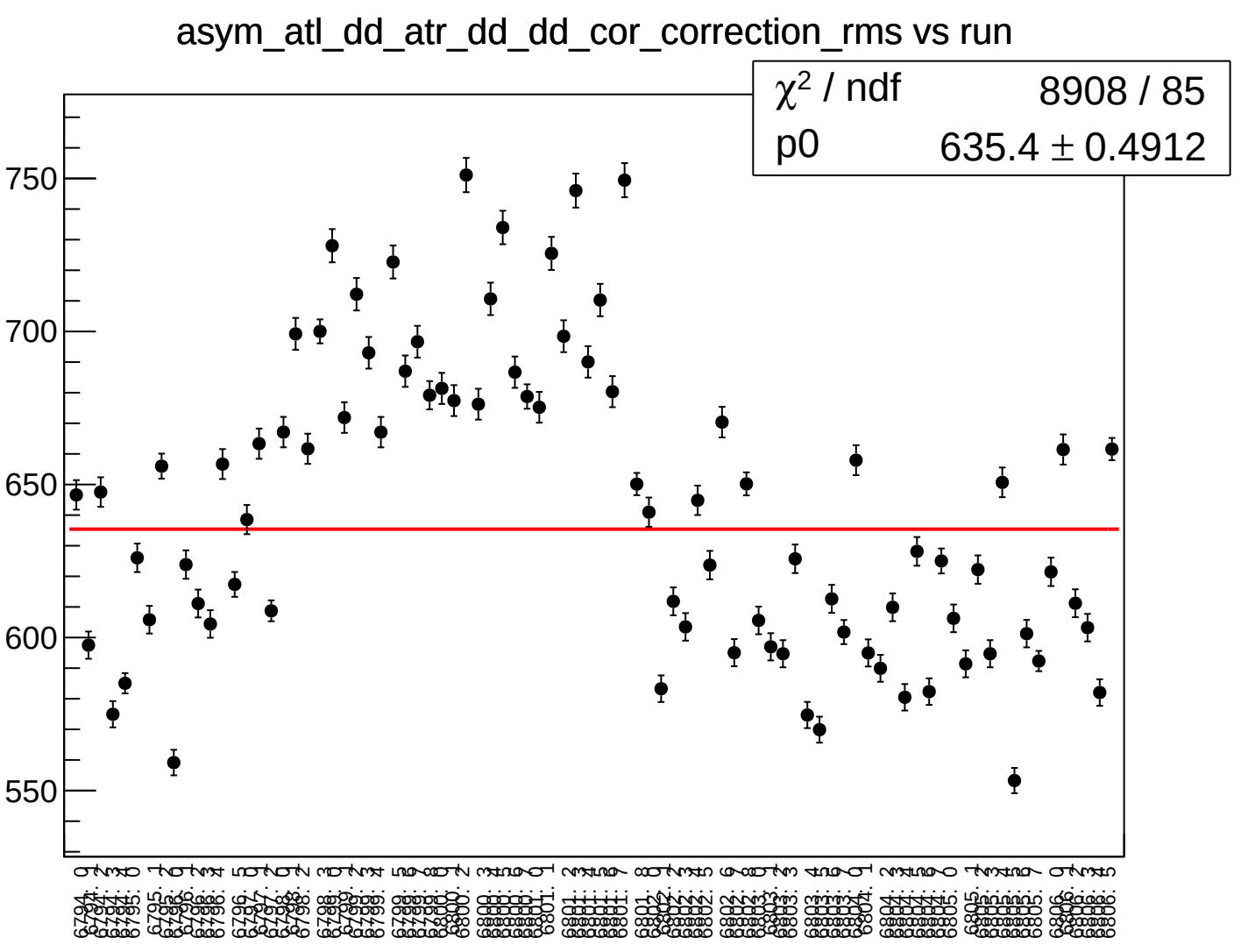

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.92
Std Dev 21.78

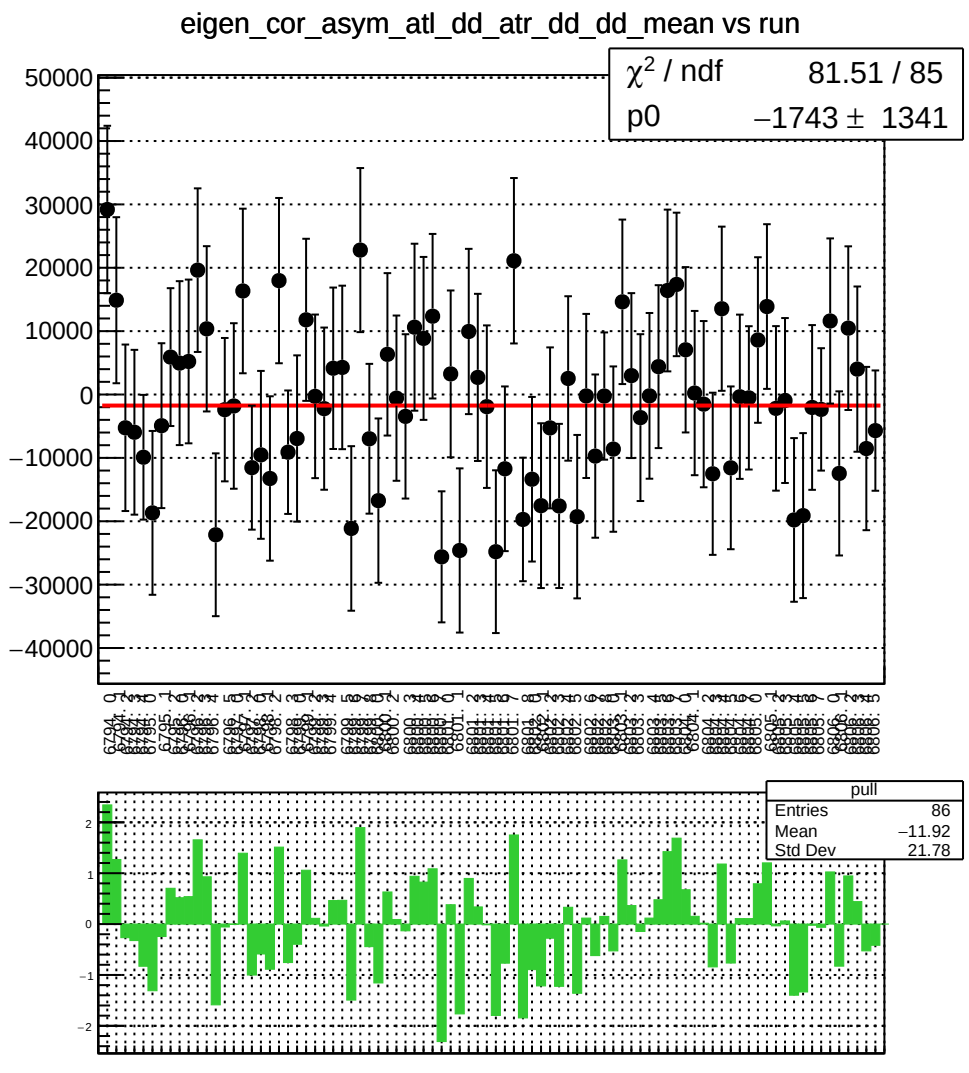

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

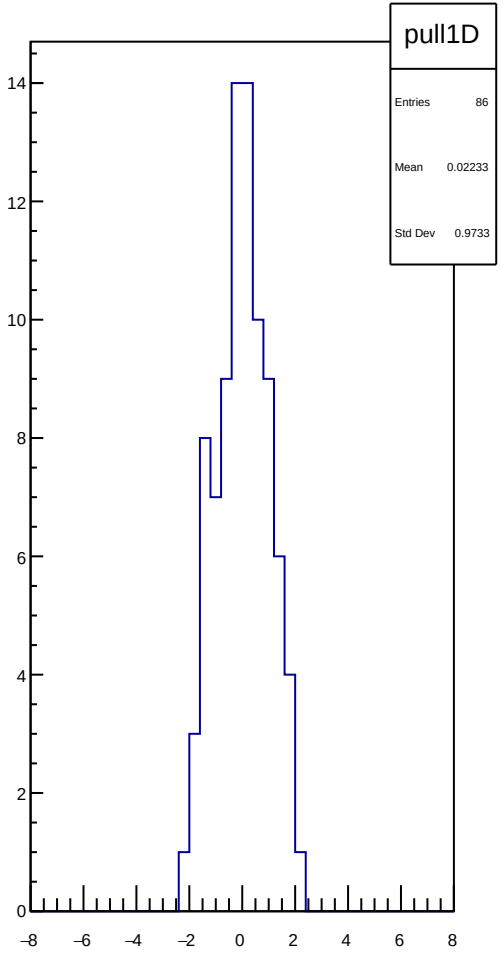

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

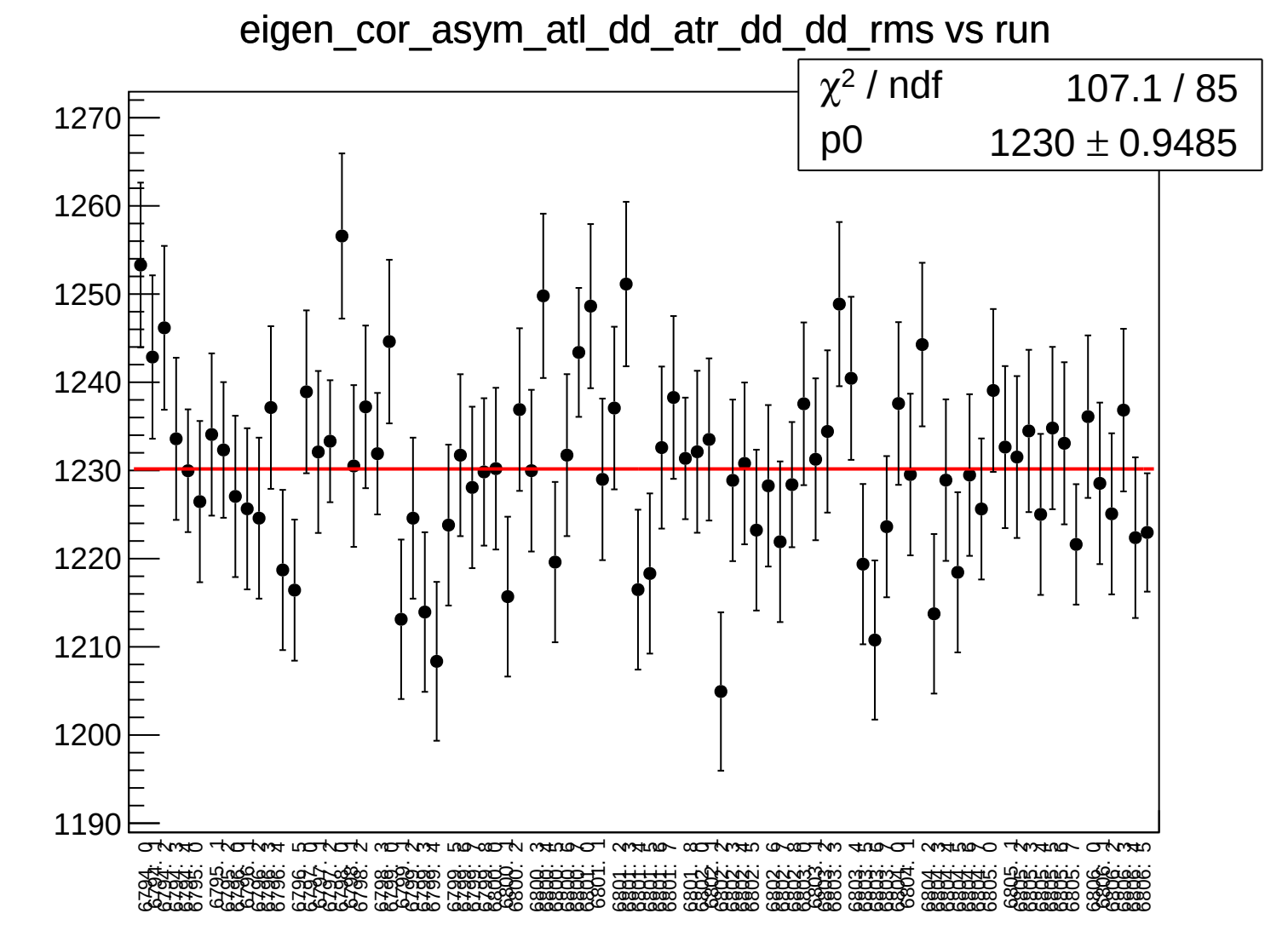

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.1 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.9
Std Dev 0
2
1
0
−1
−2

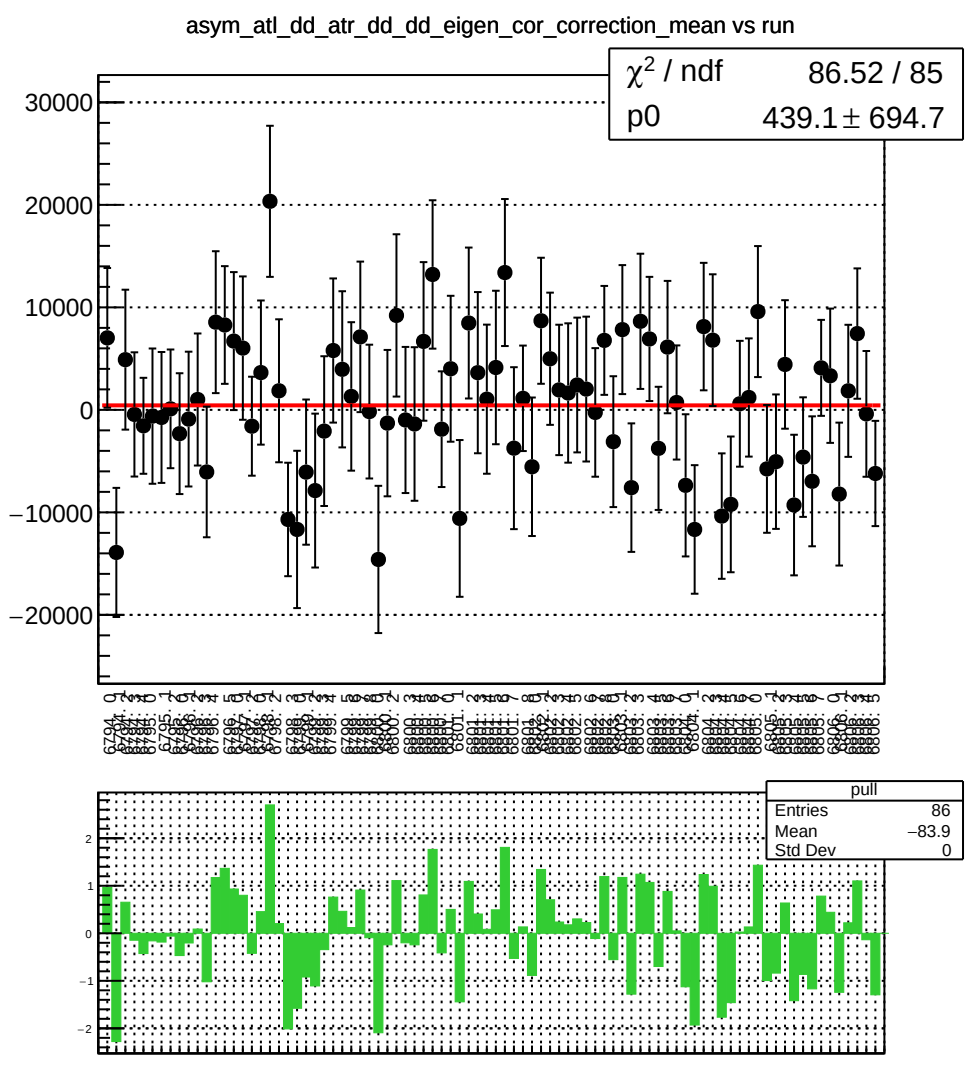

pull1D
Entries 86
Mean 0.01217
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

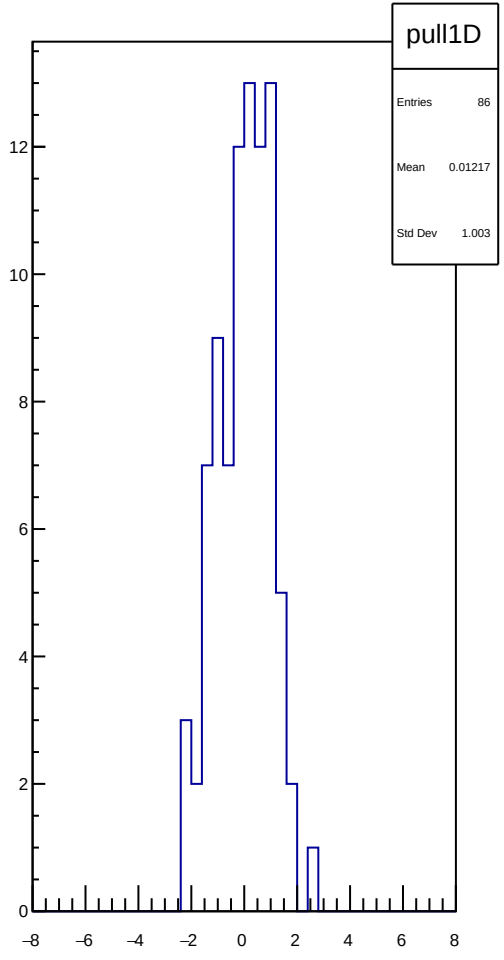

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 8908 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

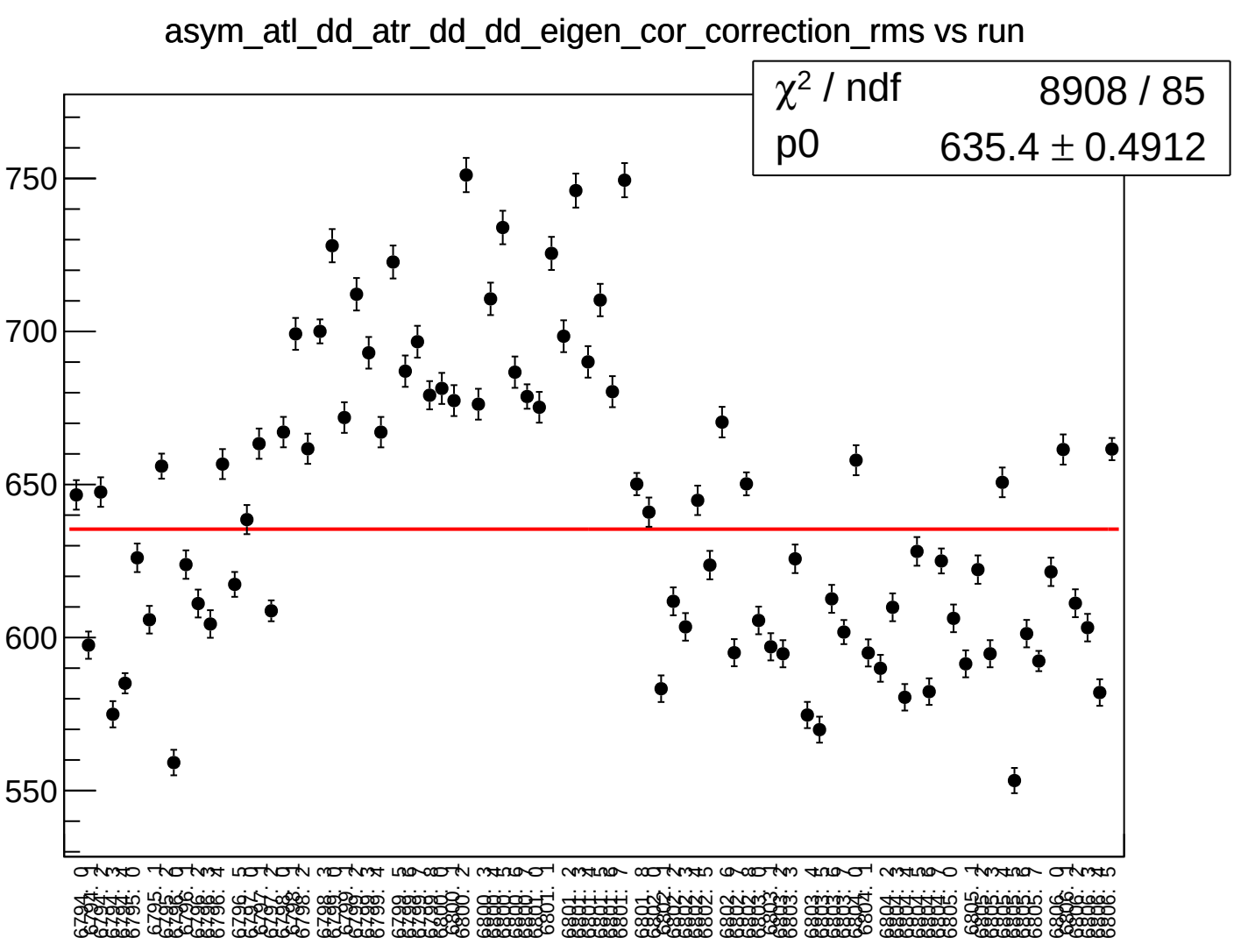

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.92
Std Dev 21.78

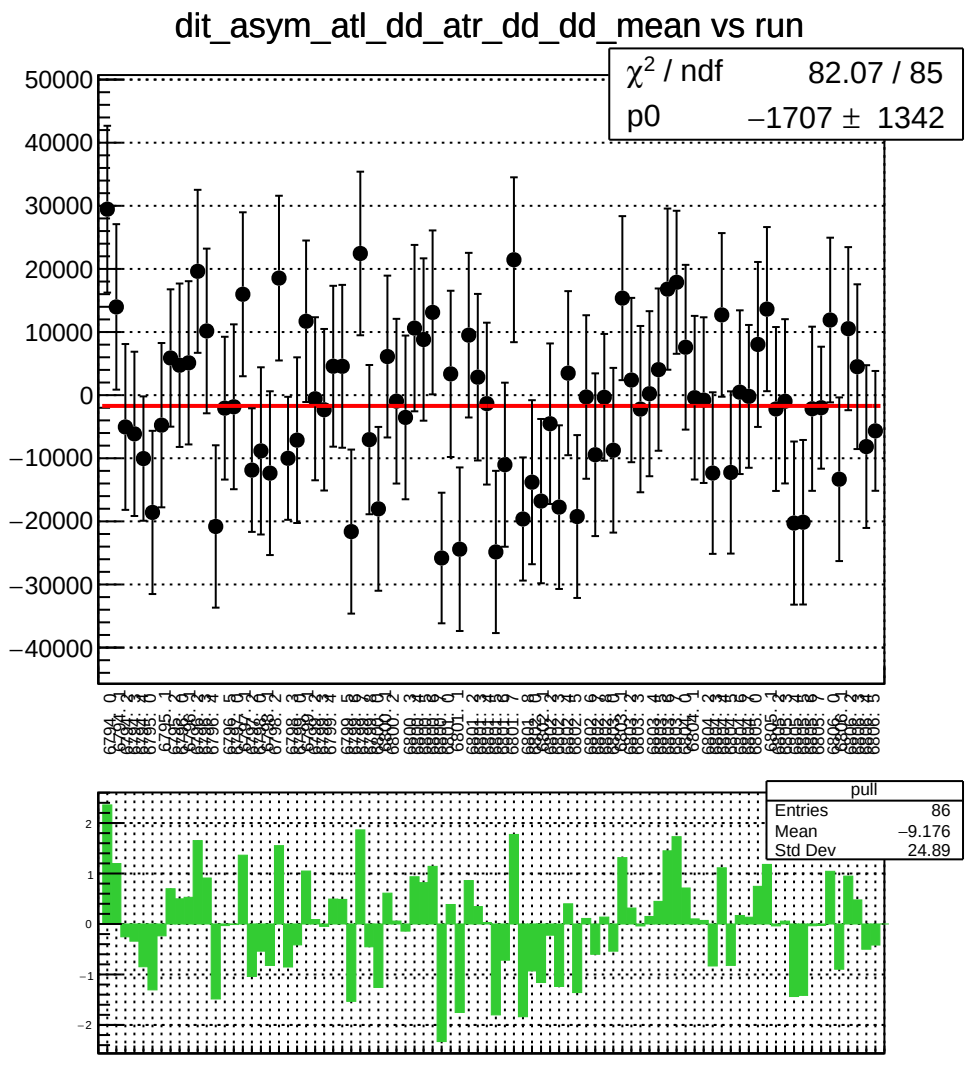

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

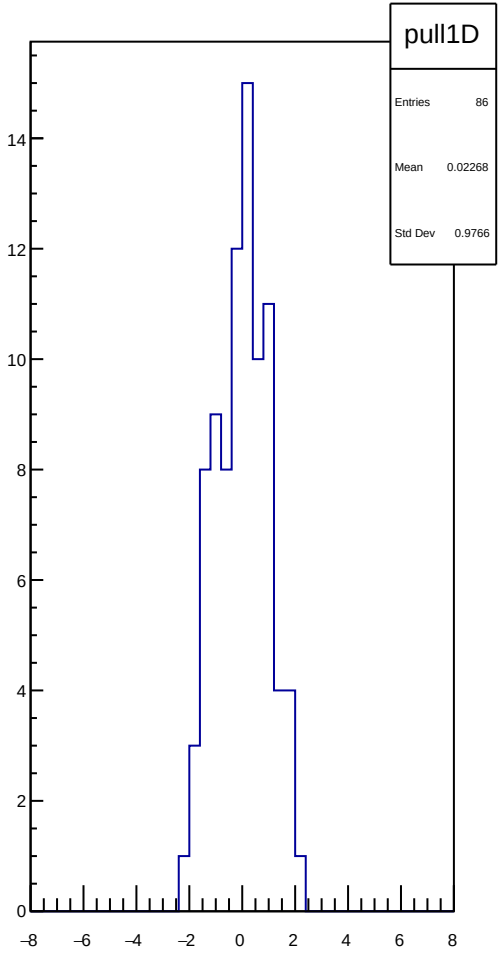

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

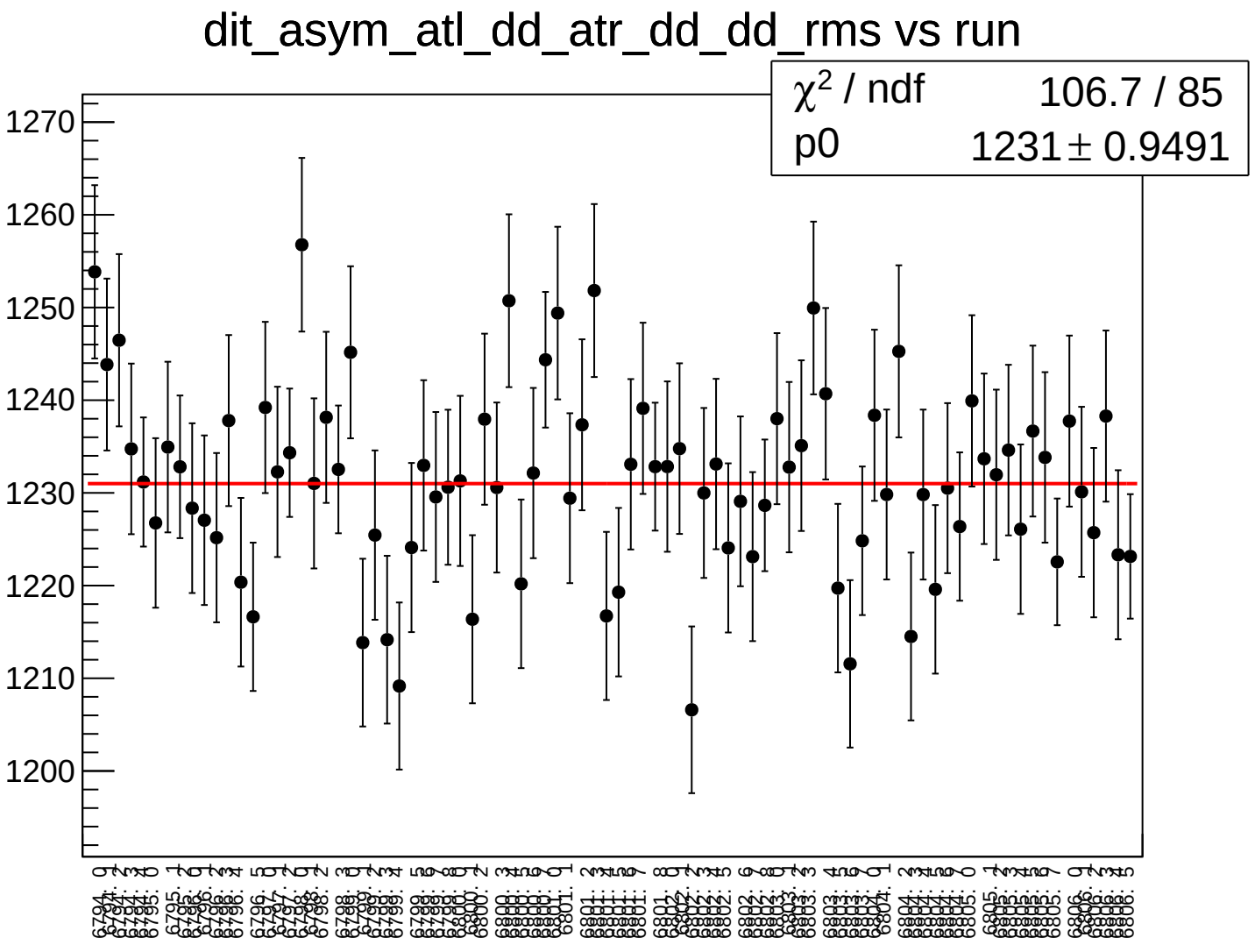

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.1 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.9
Std Dev 0
2
1
0
−1
−2

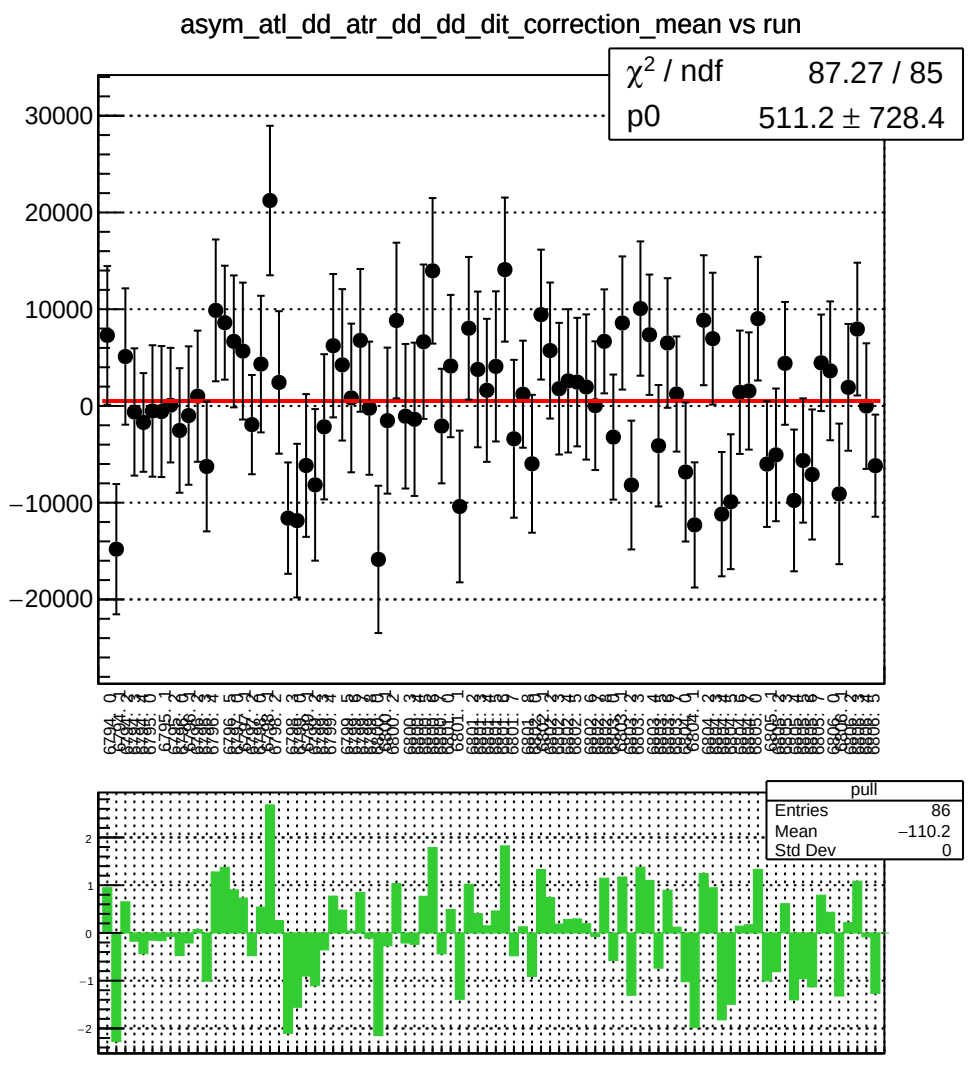

pull1D
Entries 86
Mean 0.01217
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

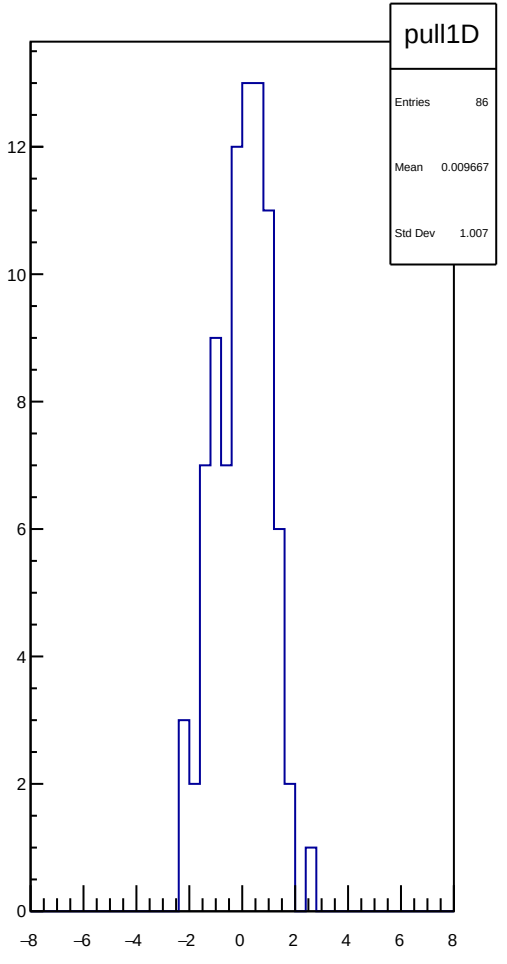

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8908 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

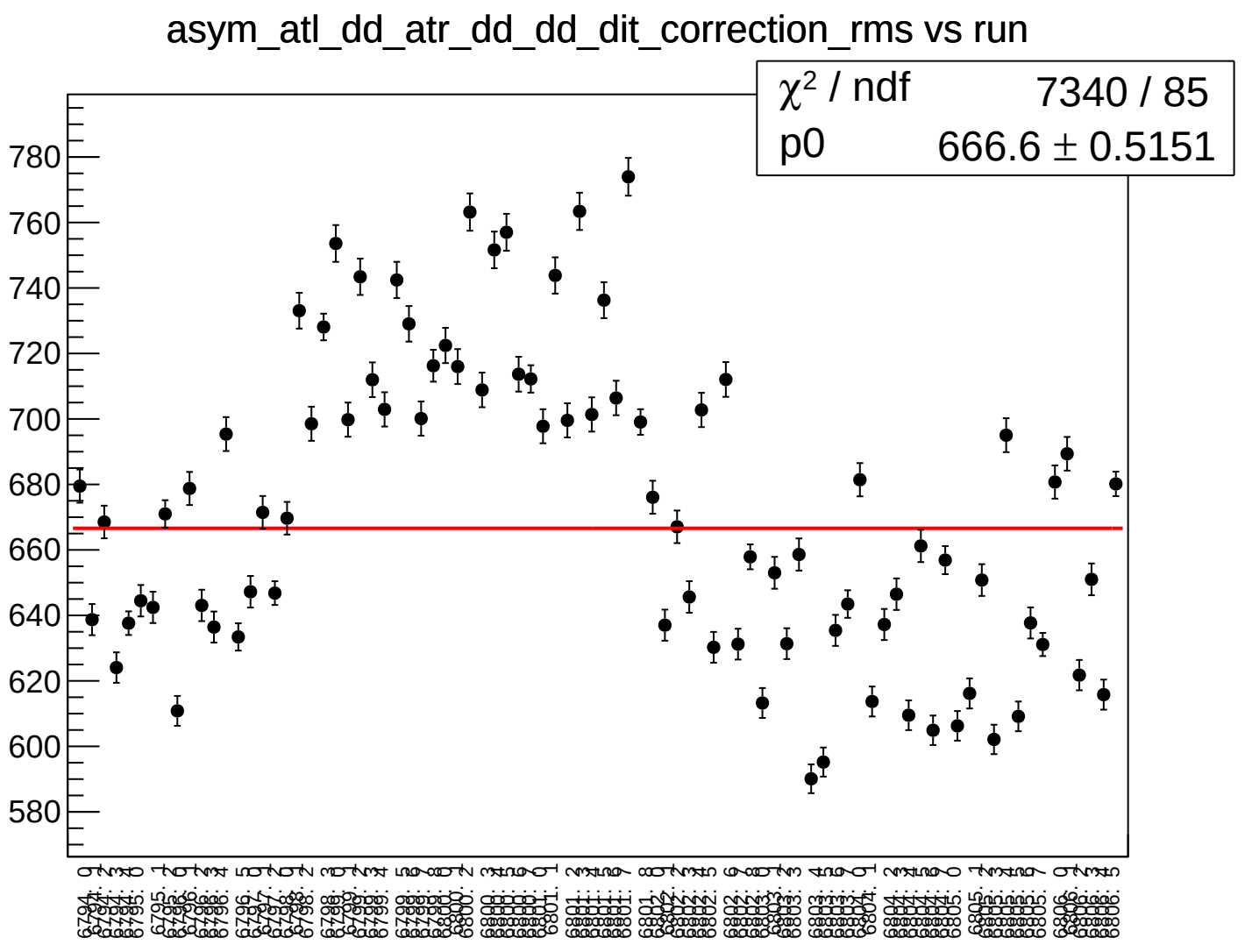

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 82.07 / 85
p0 −1707 ± 1342
pull
Entries 86
Mean −9.176
Std Dev 24.89

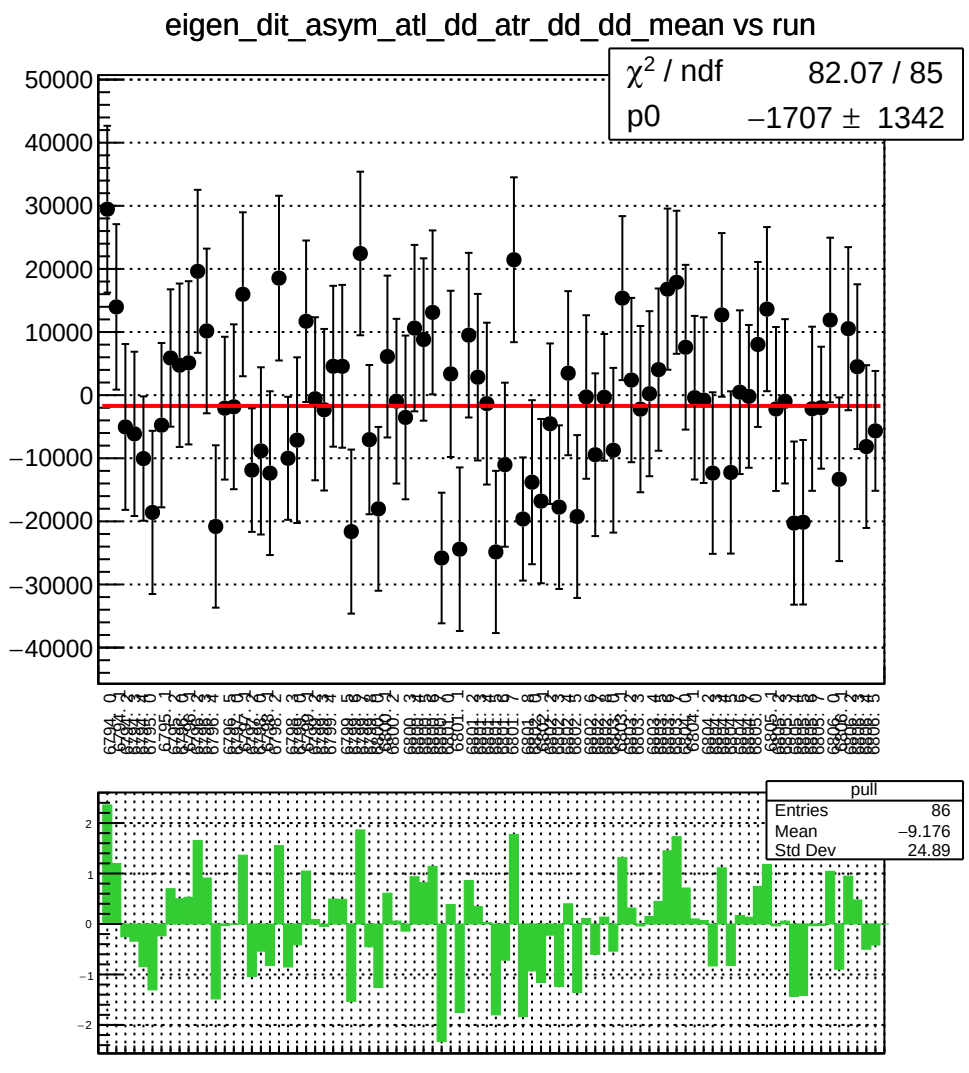

pull1D
Entries 86
Mean 0.02268
Std Dev 0.9766

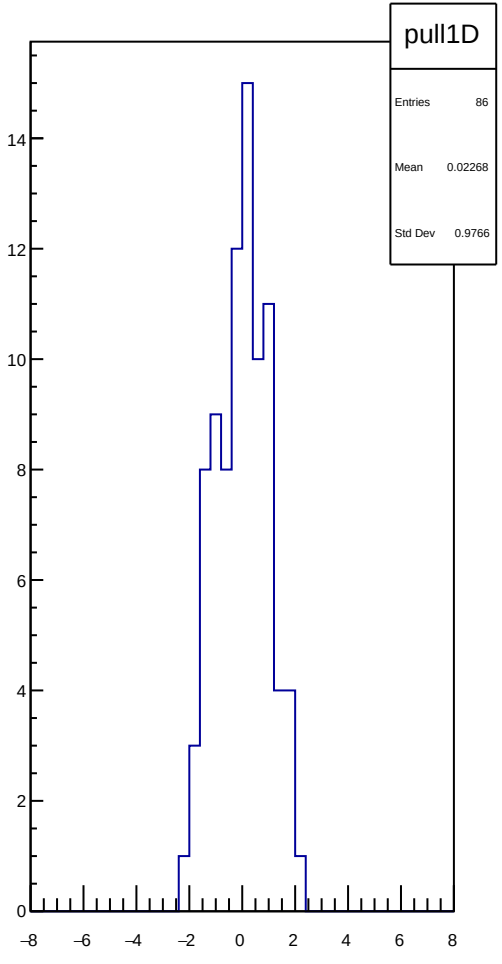

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 106.7 / 85
p0 1231 ± 0.9491
1270
1260
1250
1240
1230
1220
1210
1200

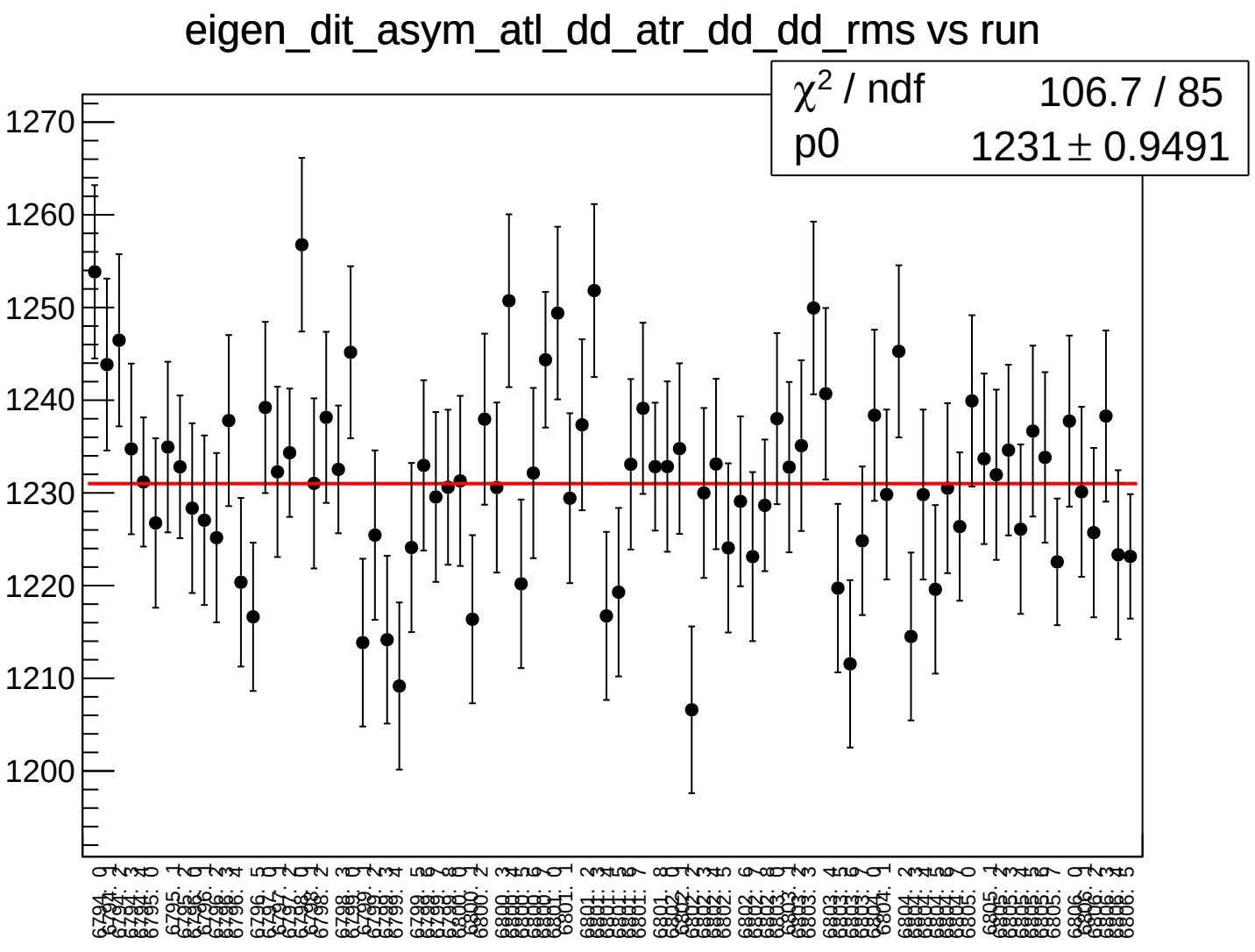

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.27 / 85
p0 511.2 ± 728.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −110.2
Std Dev 0
2
1
0
−1
−2

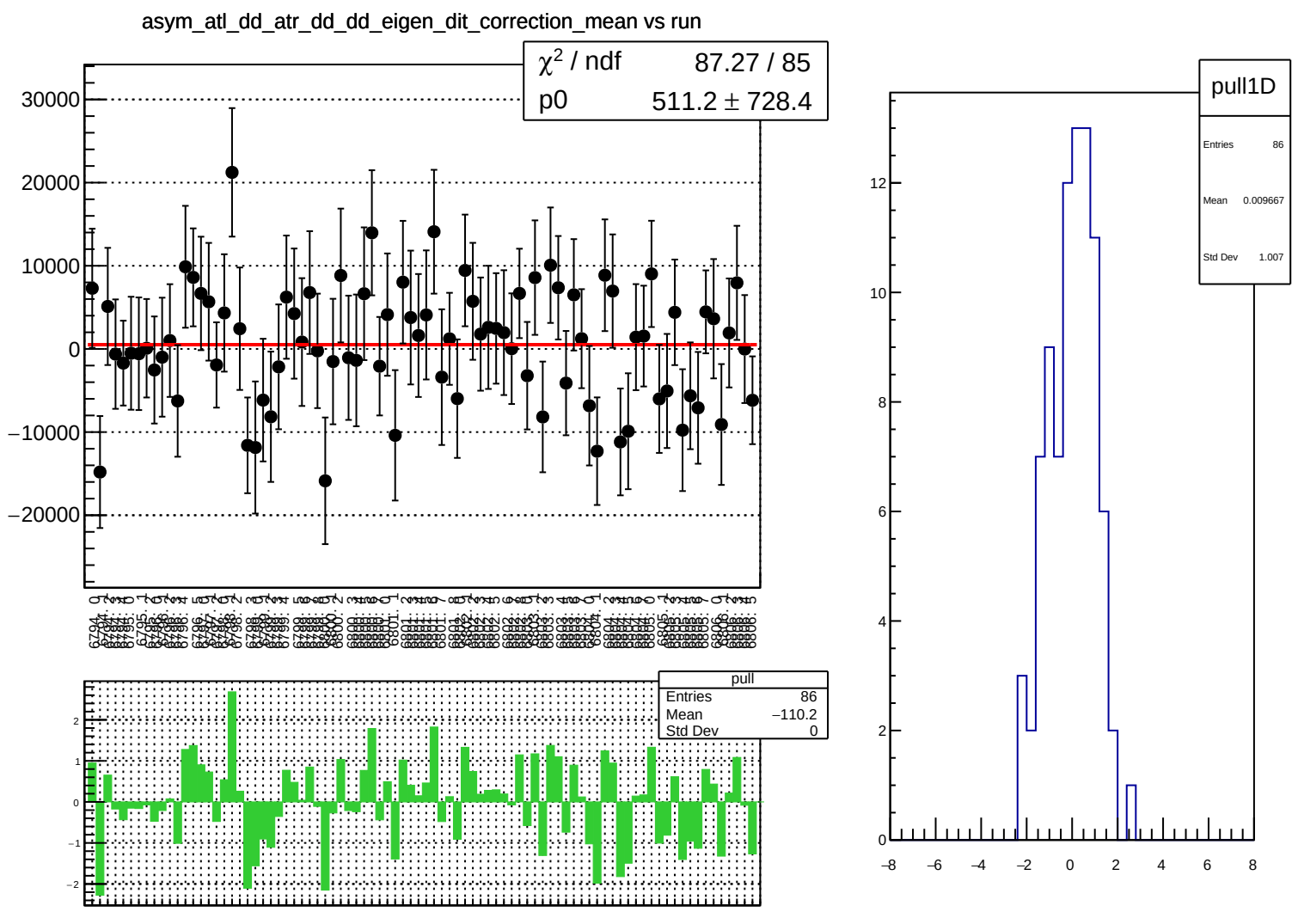

pull1D
Entries 86
Mean 0.009667
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

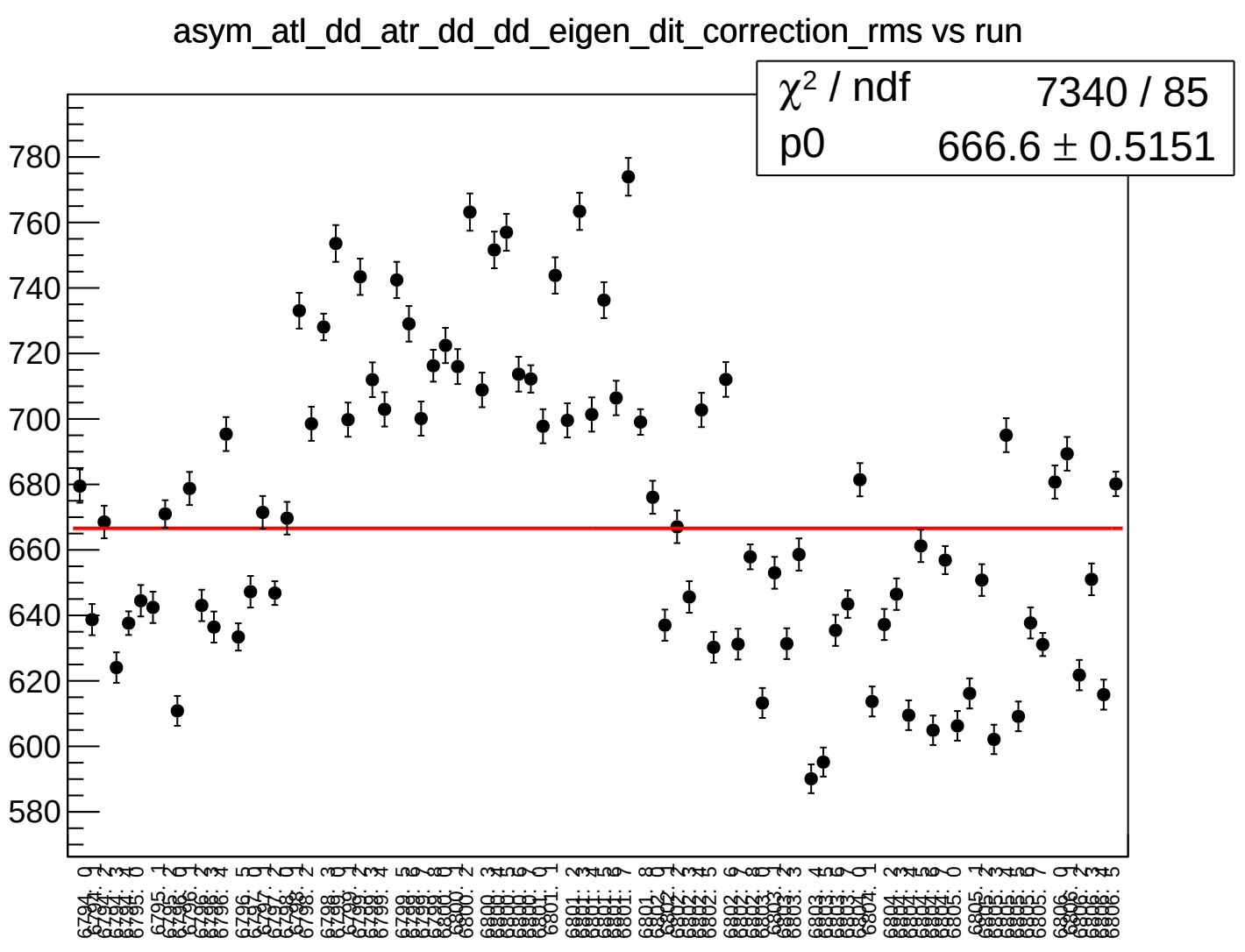

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 7340 / 85
p0 666.6 ± 0.5151
780
760
740
720
700
680
660
640
620
600
580

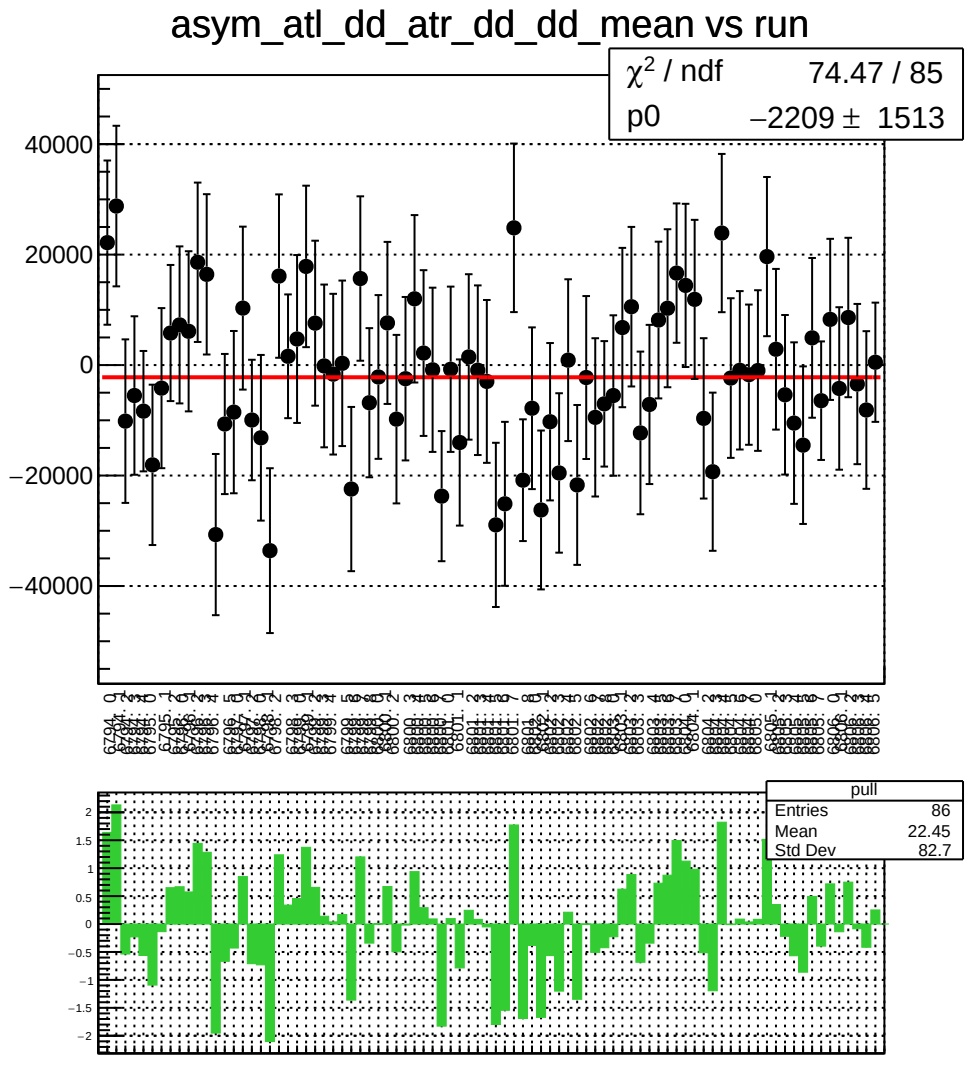

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 82.07 / 85
p0 −1707 ± 1342
pull
Entries 86
Mean −9.176
Std Dev 24.89

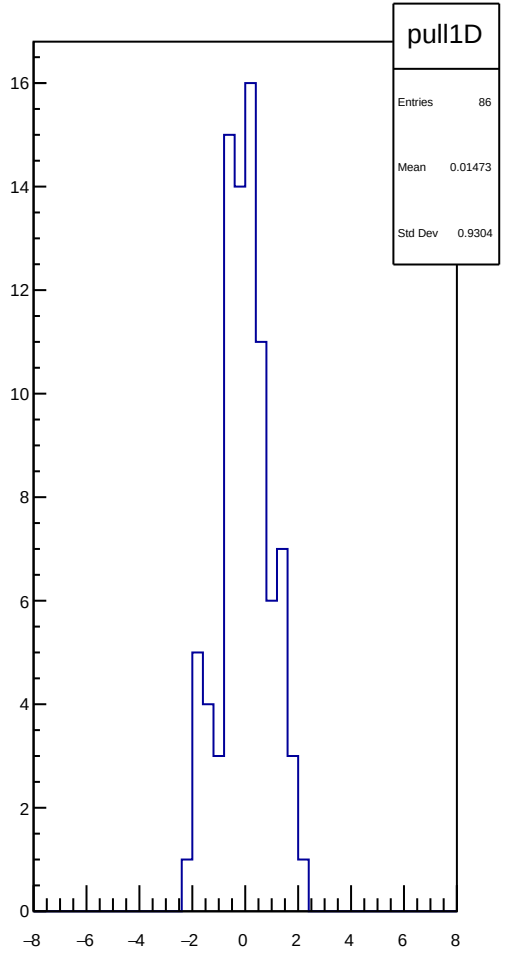

pull1D
Entries 86
Mean 0.02268
Std Dev 0.9766

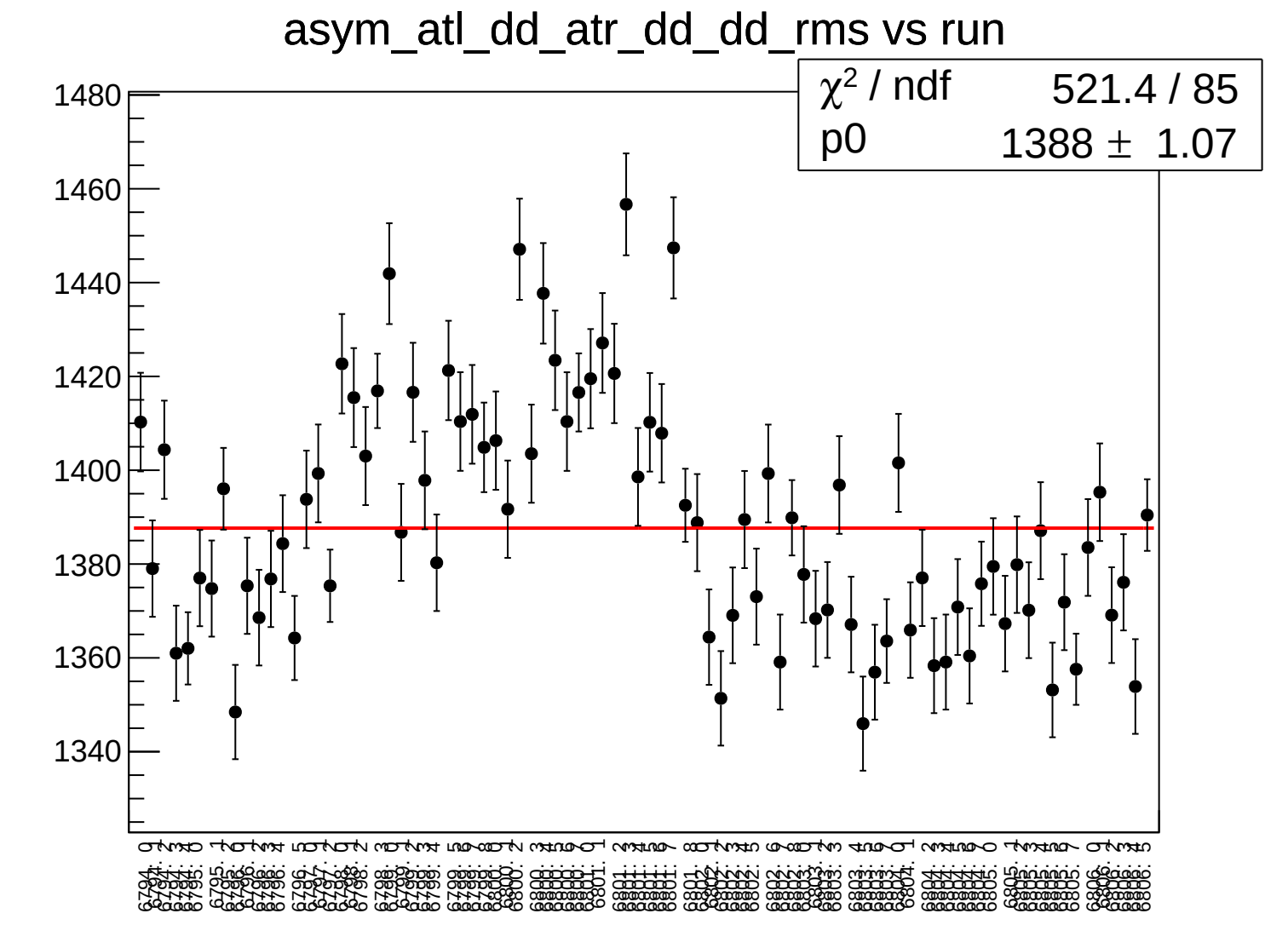

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 106.7 / 85
p0 1231 ± 0.9491
1270
1260
1250
1240
1230
1220
1210
1200

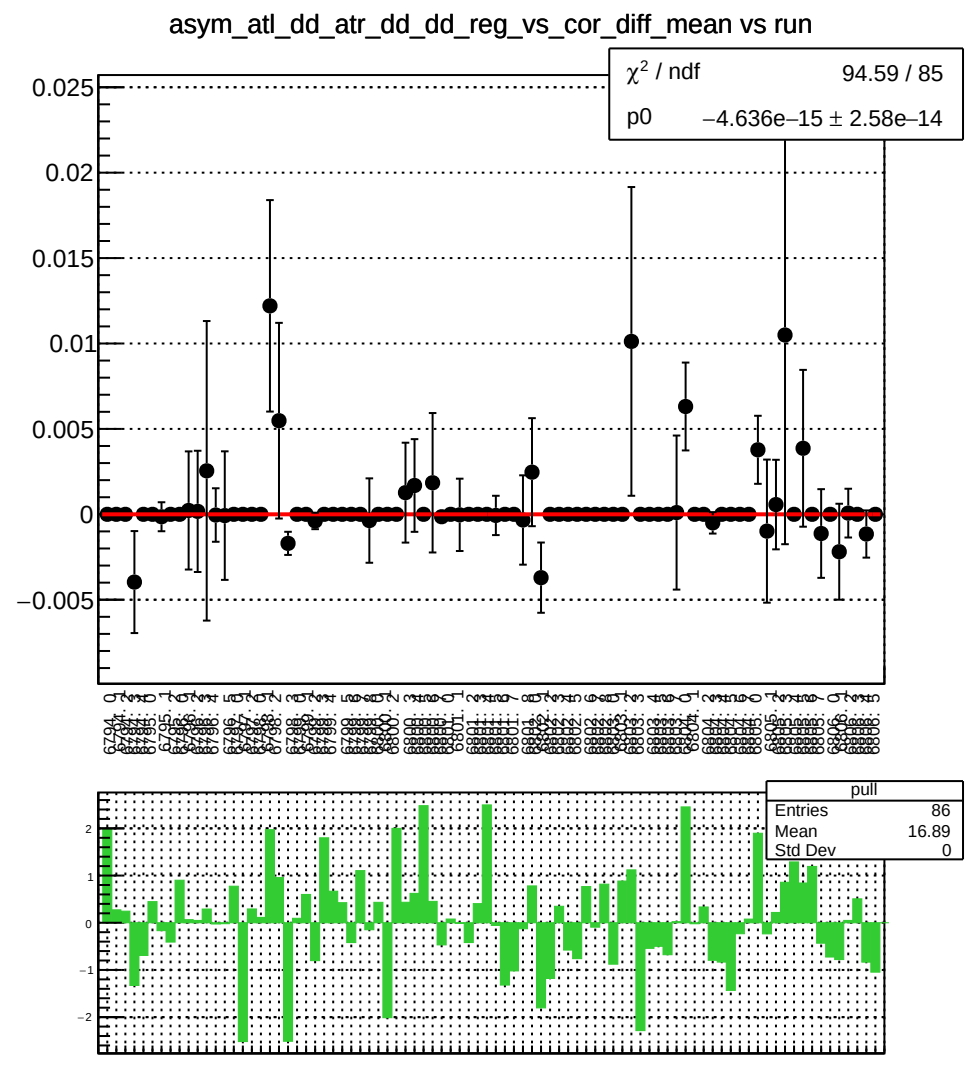

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.27 / 85
p0 511.2 ± 728.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −110.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.009667
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

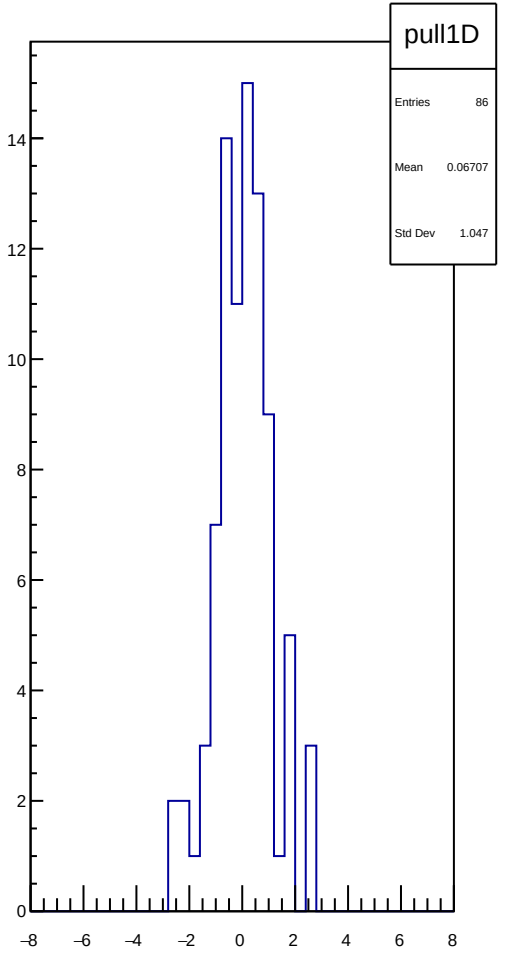

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7340 / 85
p0 666.6 ± 0.5151
780
760
740
720
700
680
660
640
620
600
580

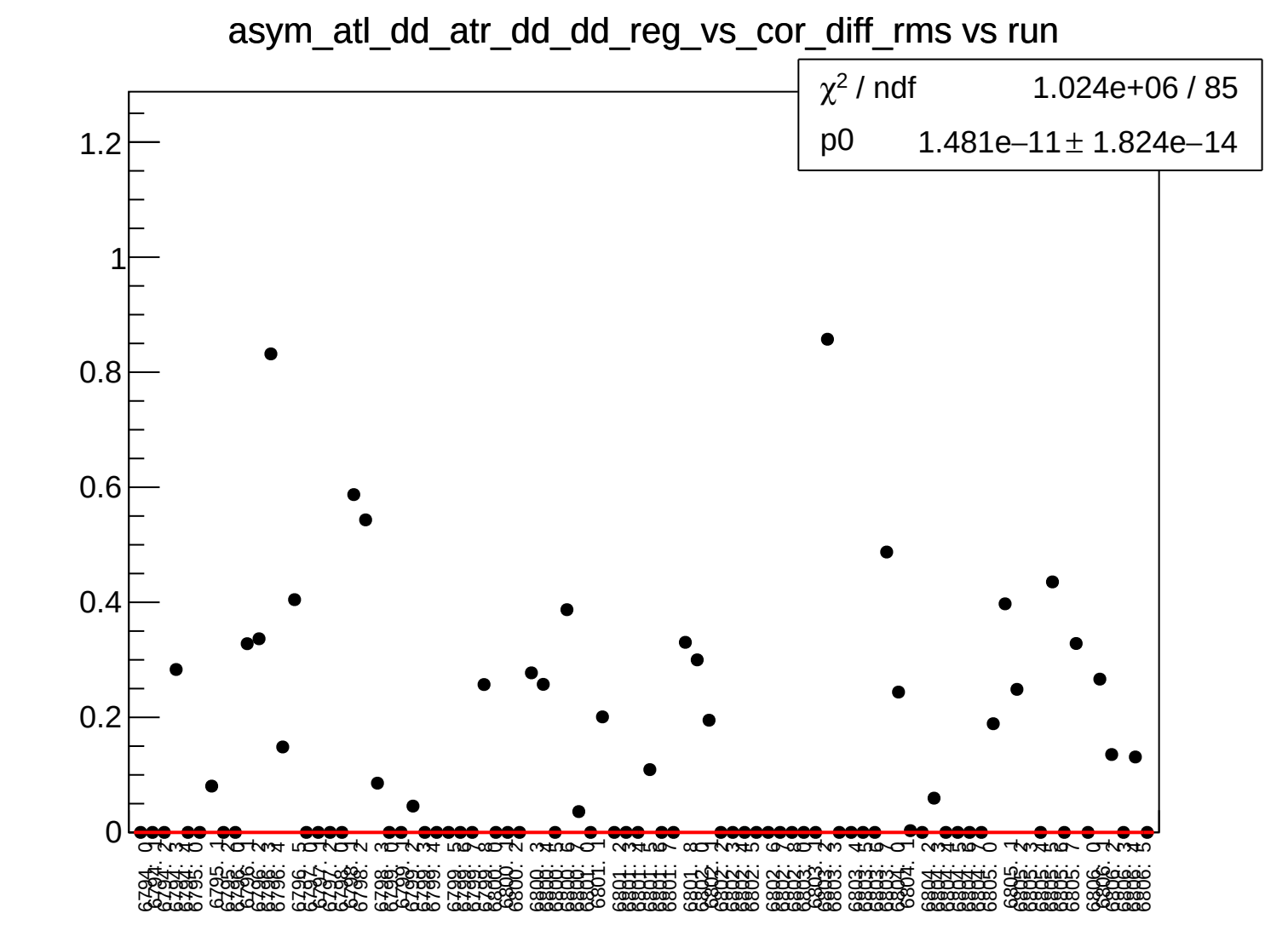

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.47 / 85
p0 −2209 ± 1513
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 22.45
Std Dev 82.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

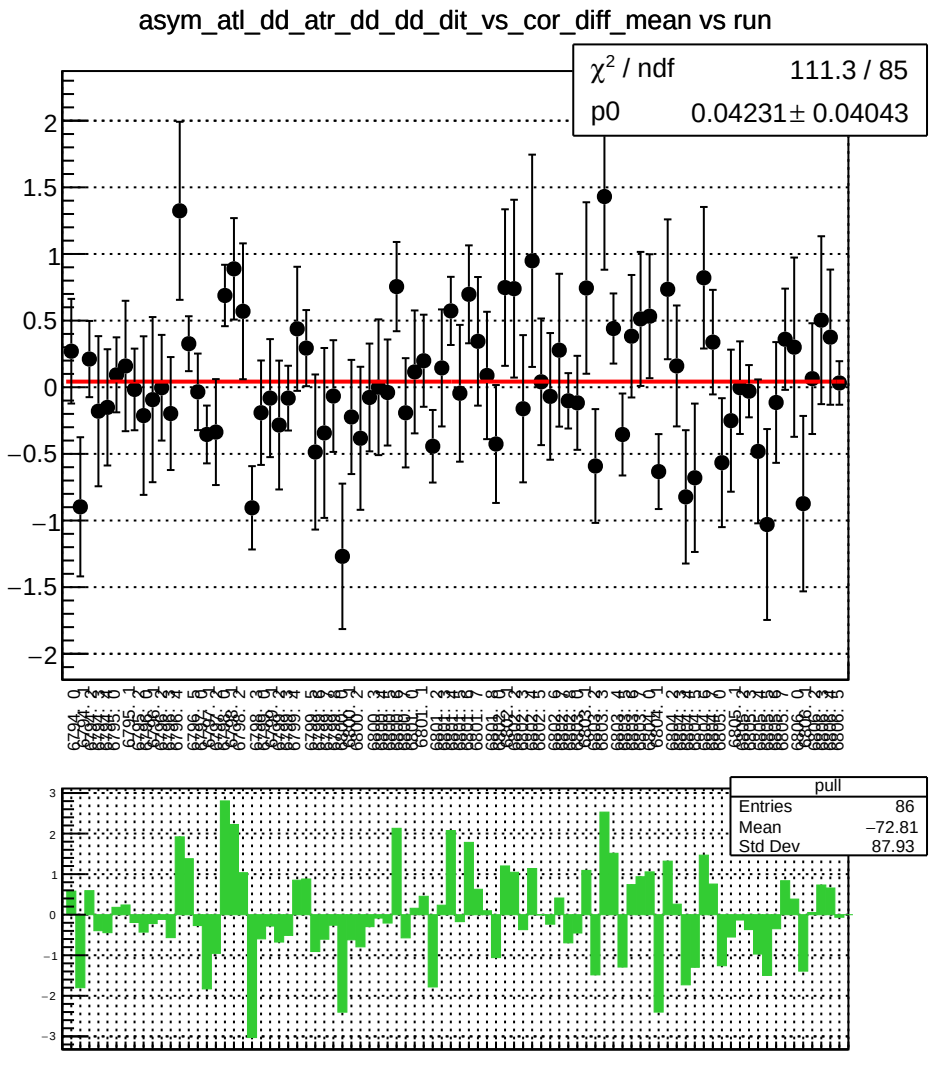

pull1D
Entries 86
Mean 0.01473
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

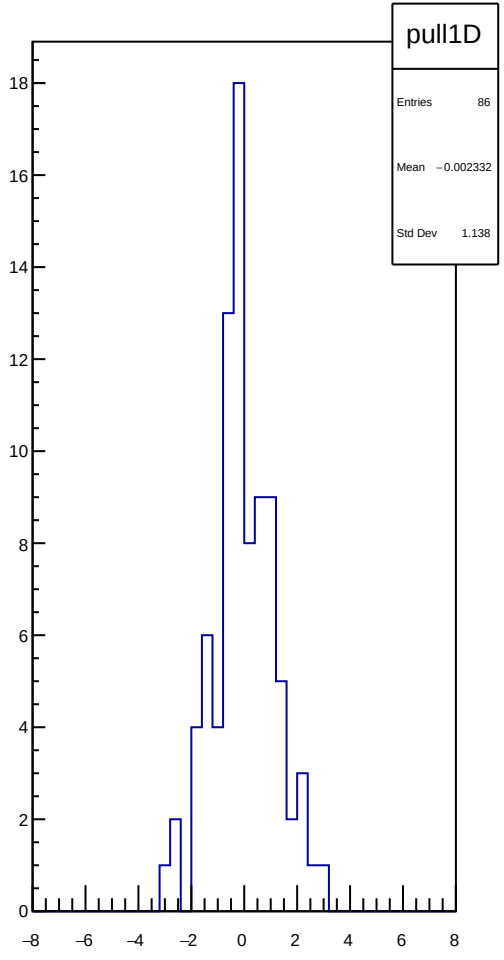

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 521.4 / 85
p0 1388 ± 1.07
1480
1460
1440
1420
1400
1380
1360
1340

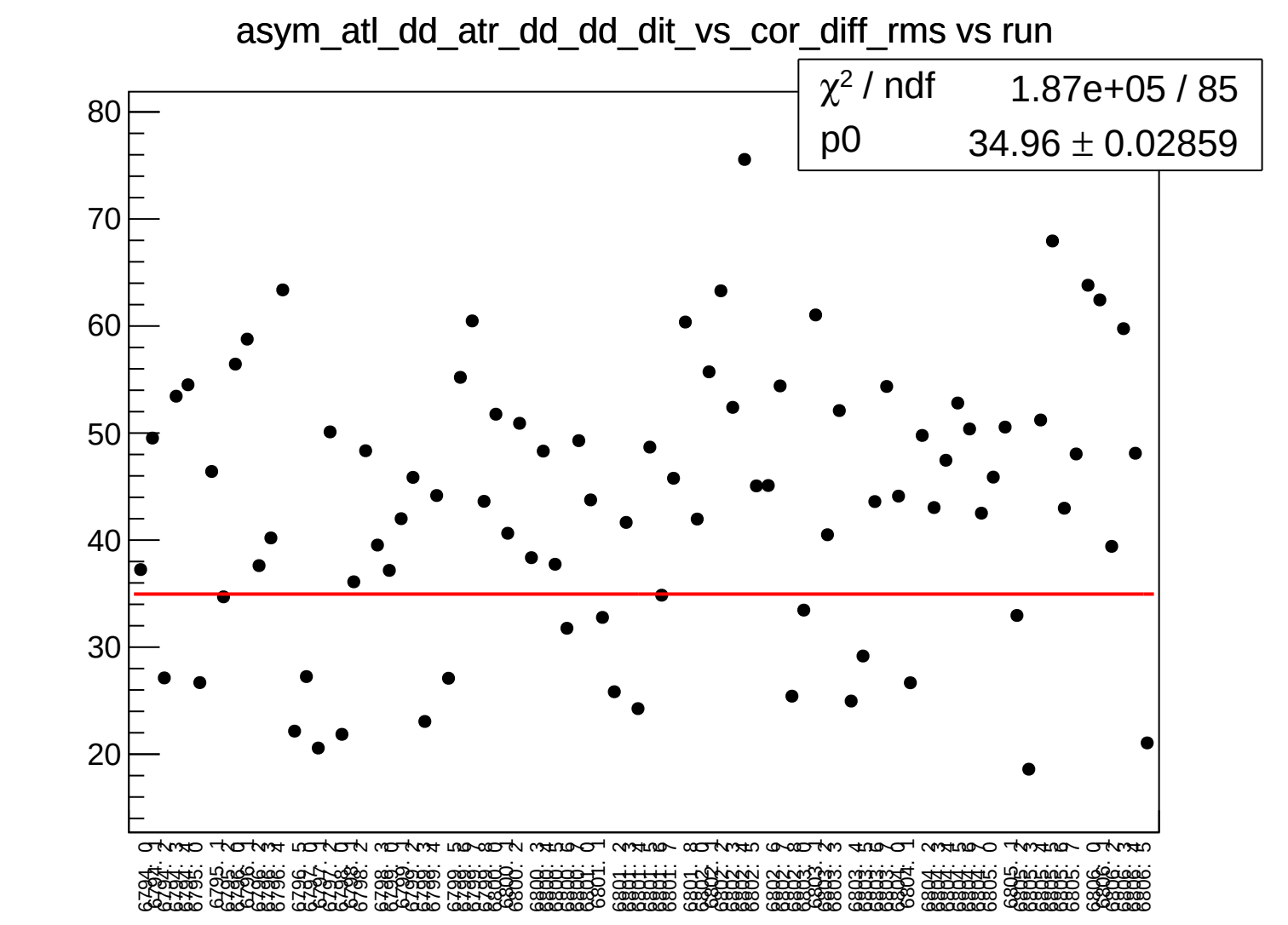

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.59 / 85
p0 −4.636e−15 ± 2.58e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 86
Mean 16.89
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.06707
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

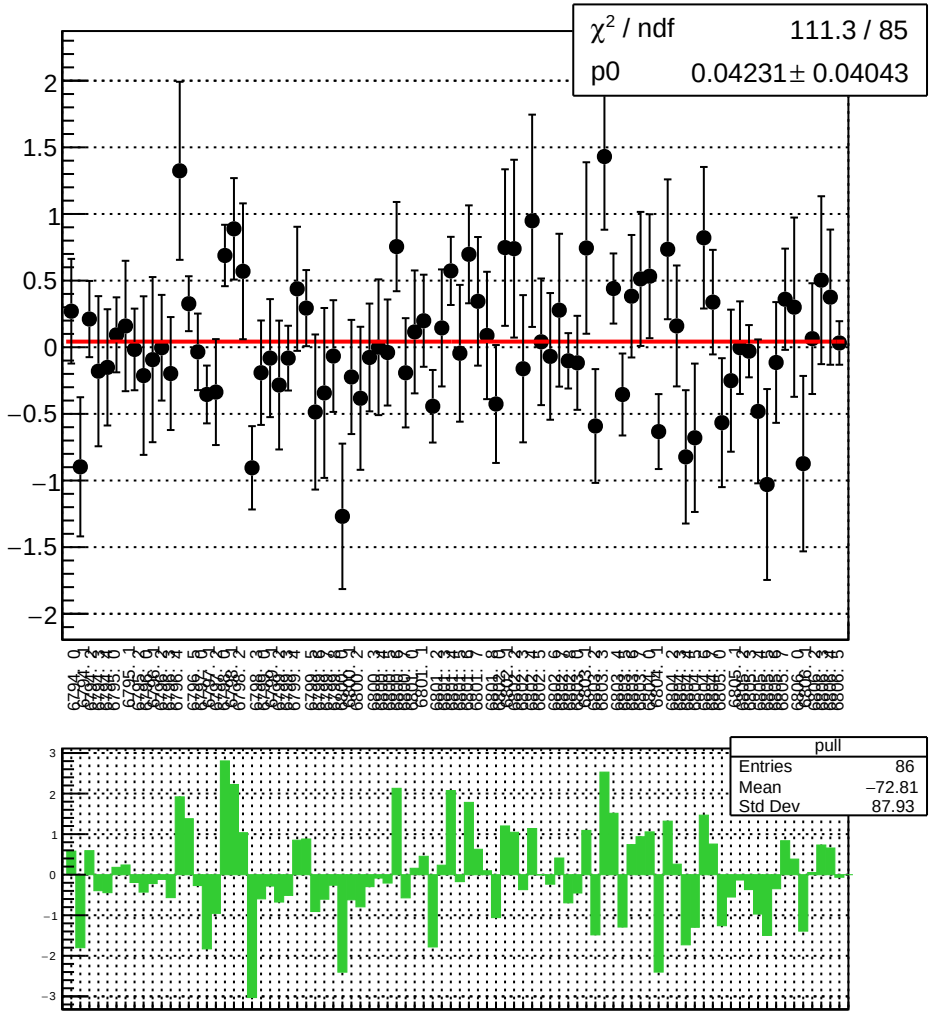

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 85
p0 1.481e−11 ± 1.824e−14
1.2
1
0.8
0.6
0.4
0.2
0

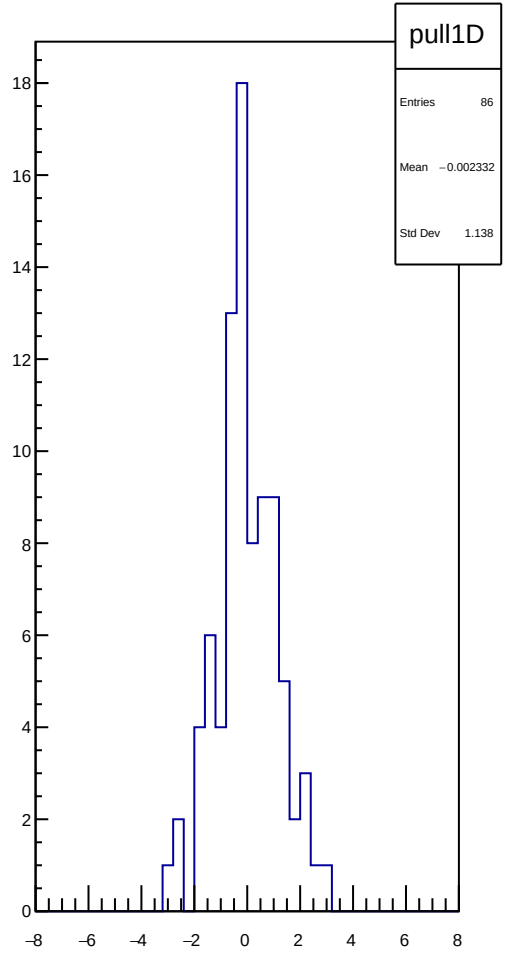

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.04231 ± 0.04043
pull
Entries 86
Mean −72.81
Std Dev 87.93

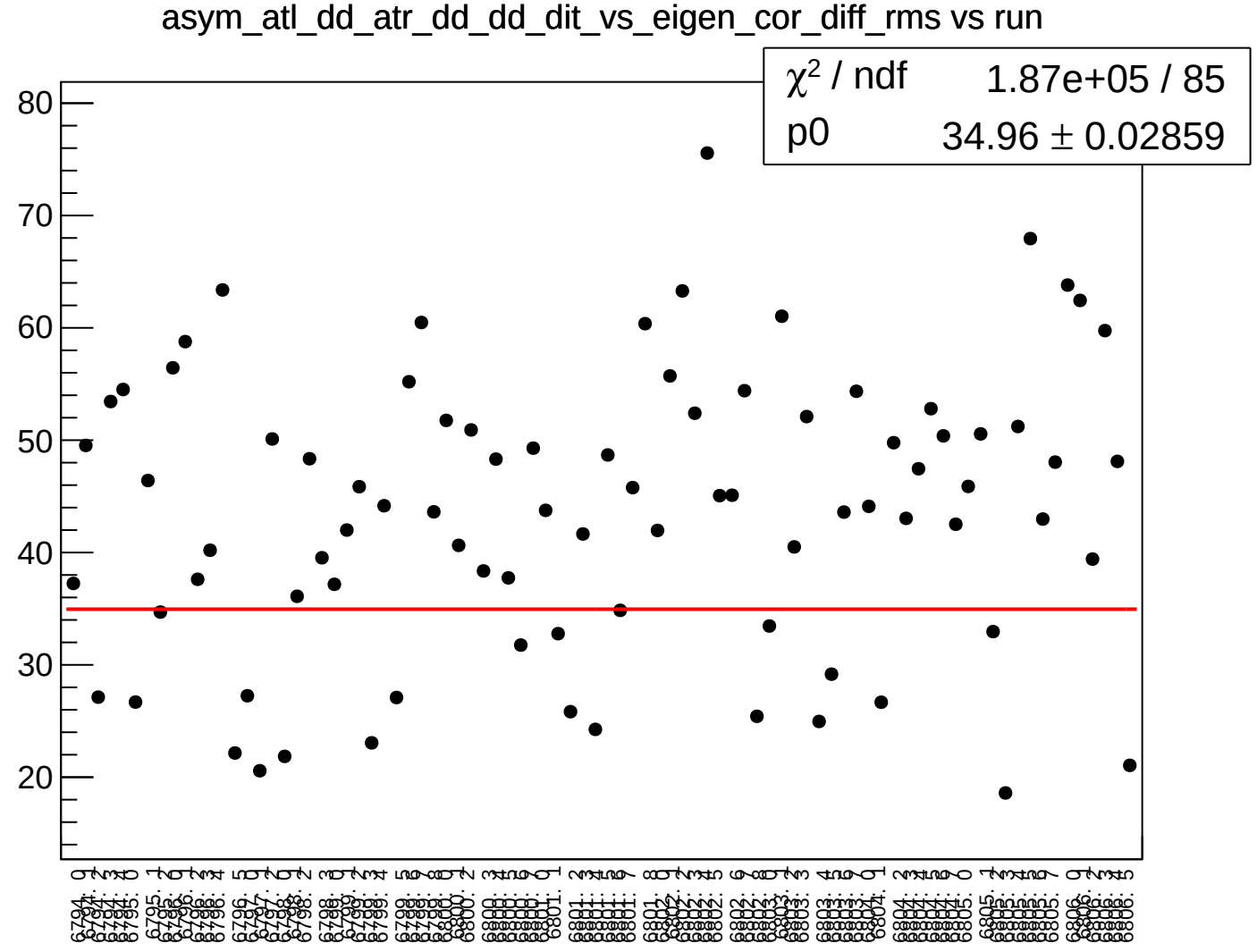

pull1D
Entries 86
Mean −0.002332
Std Dev 1.138

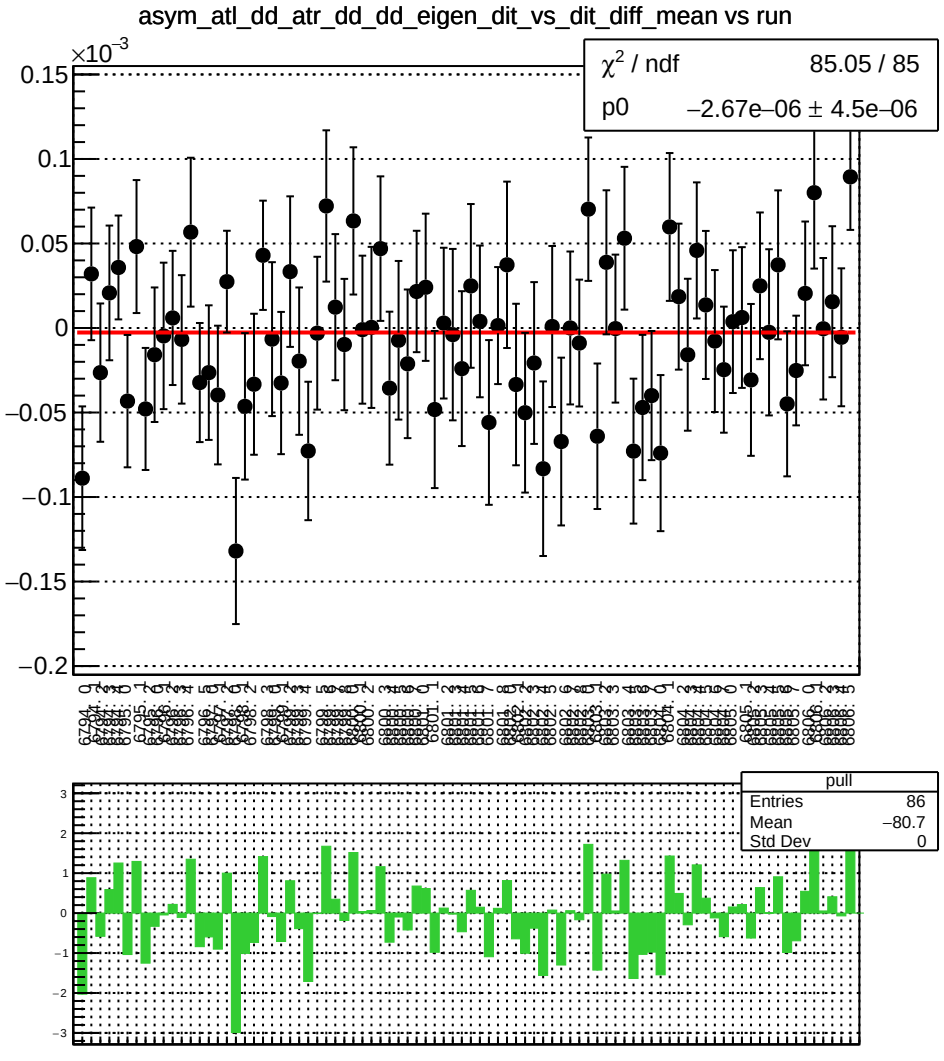

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

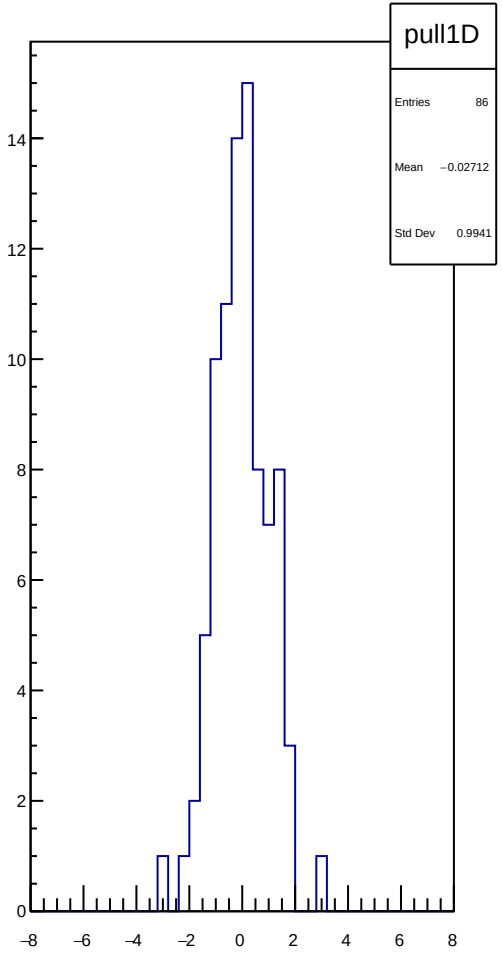
asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run

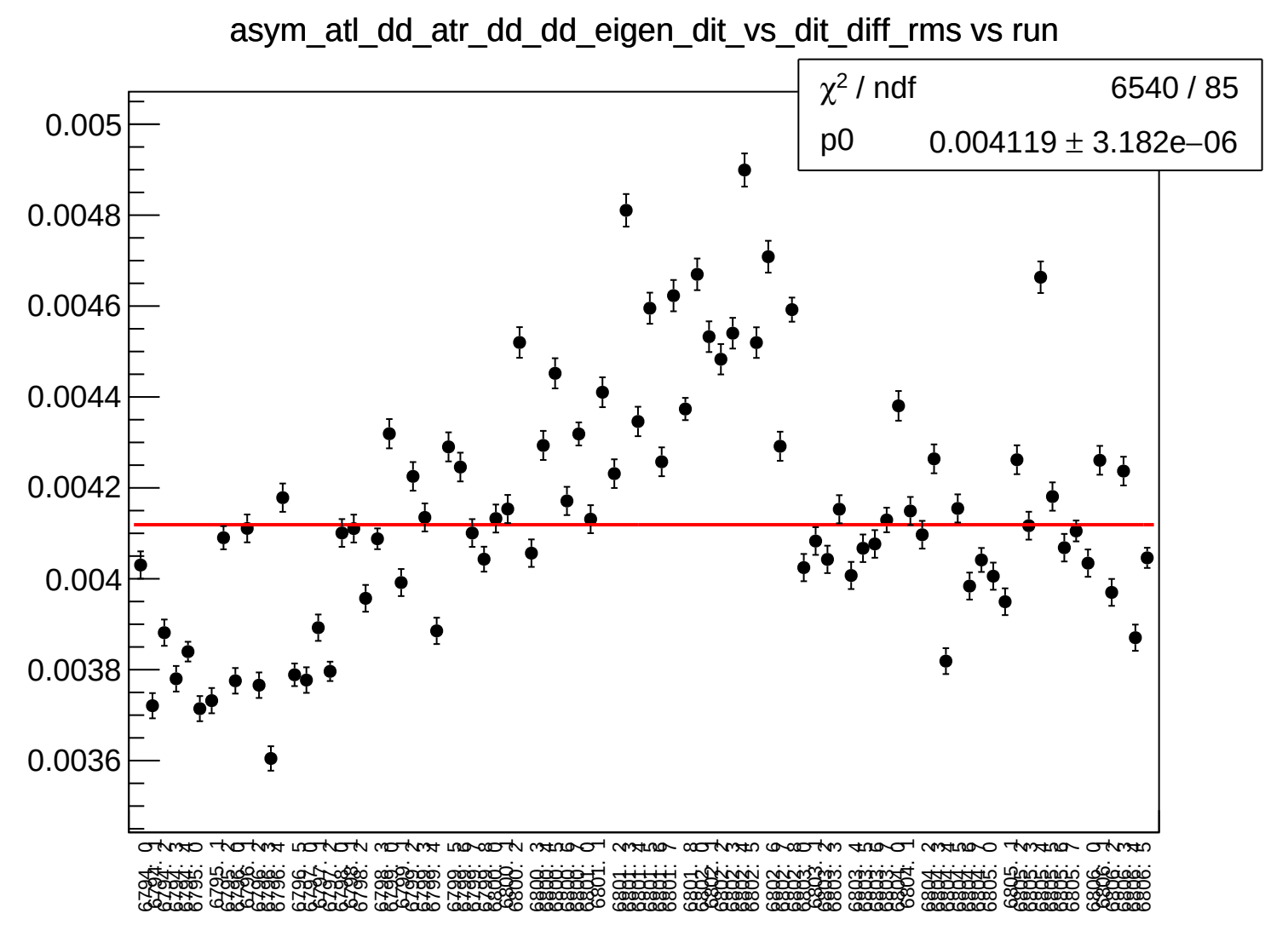


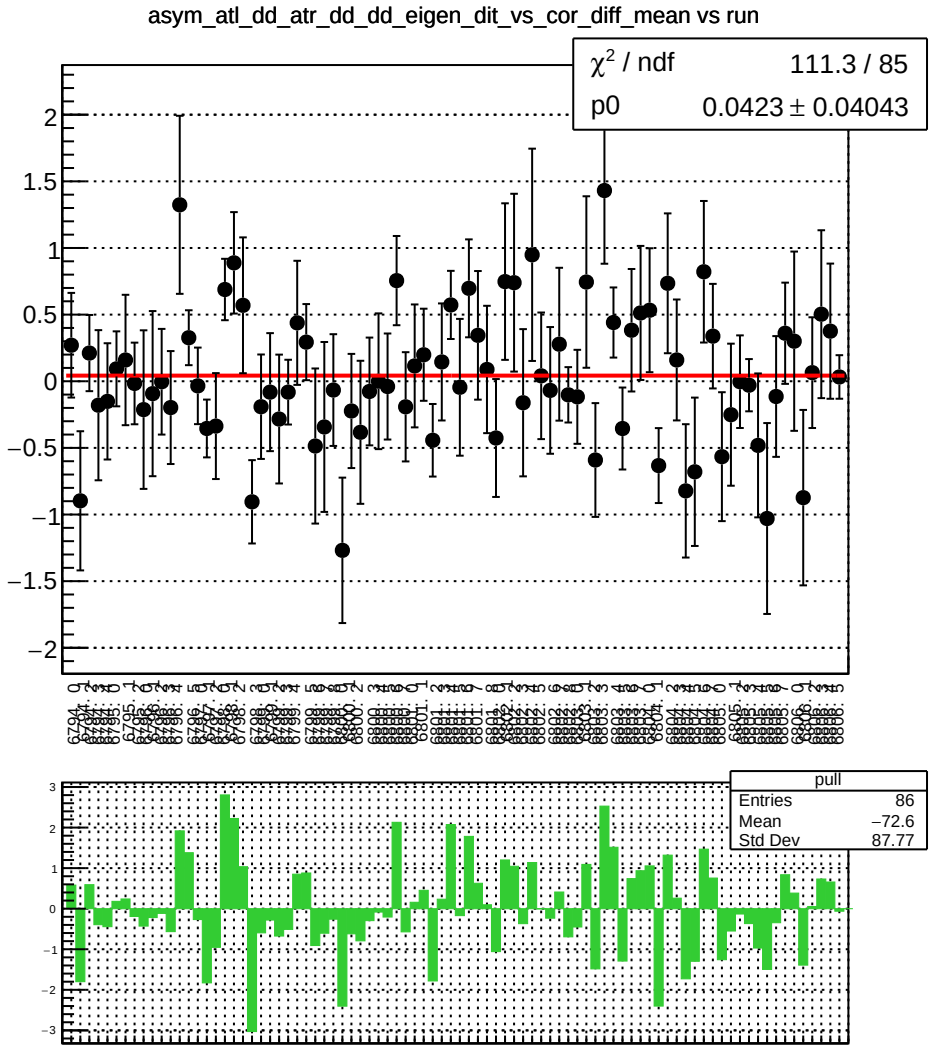


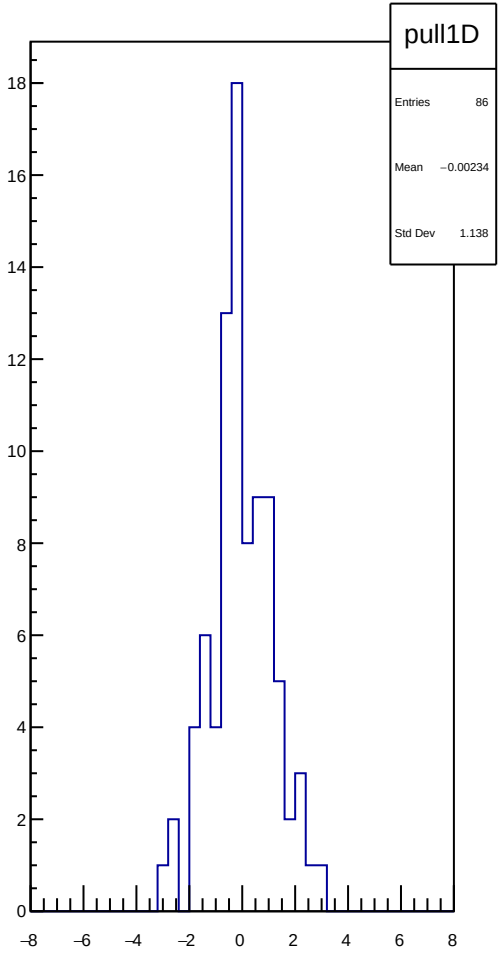

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

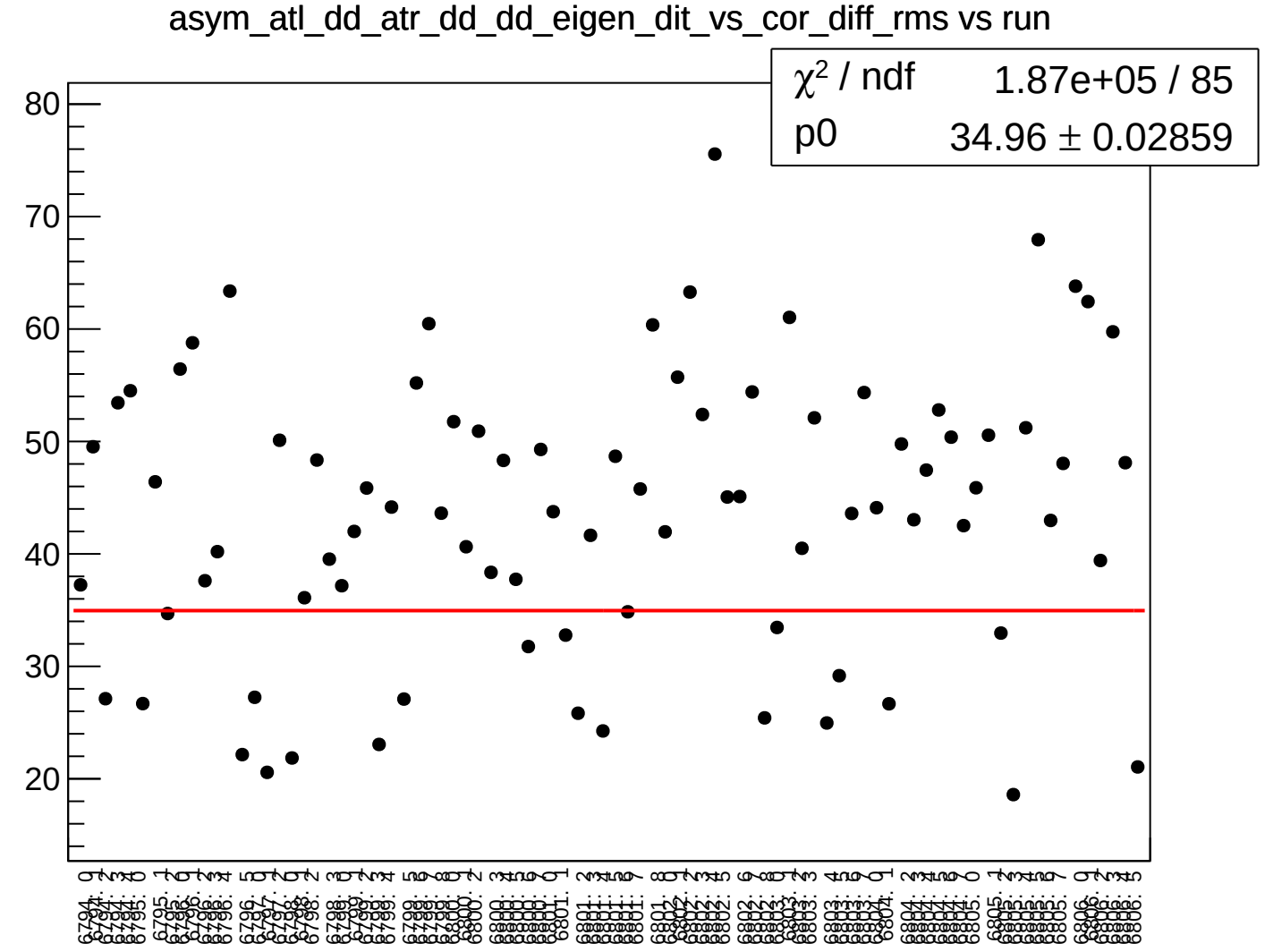

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.05 / 85
p0 −2.67e−06 ± 4.5e−06
pull
Entries 86
Mean −80.7
Std Dev 0

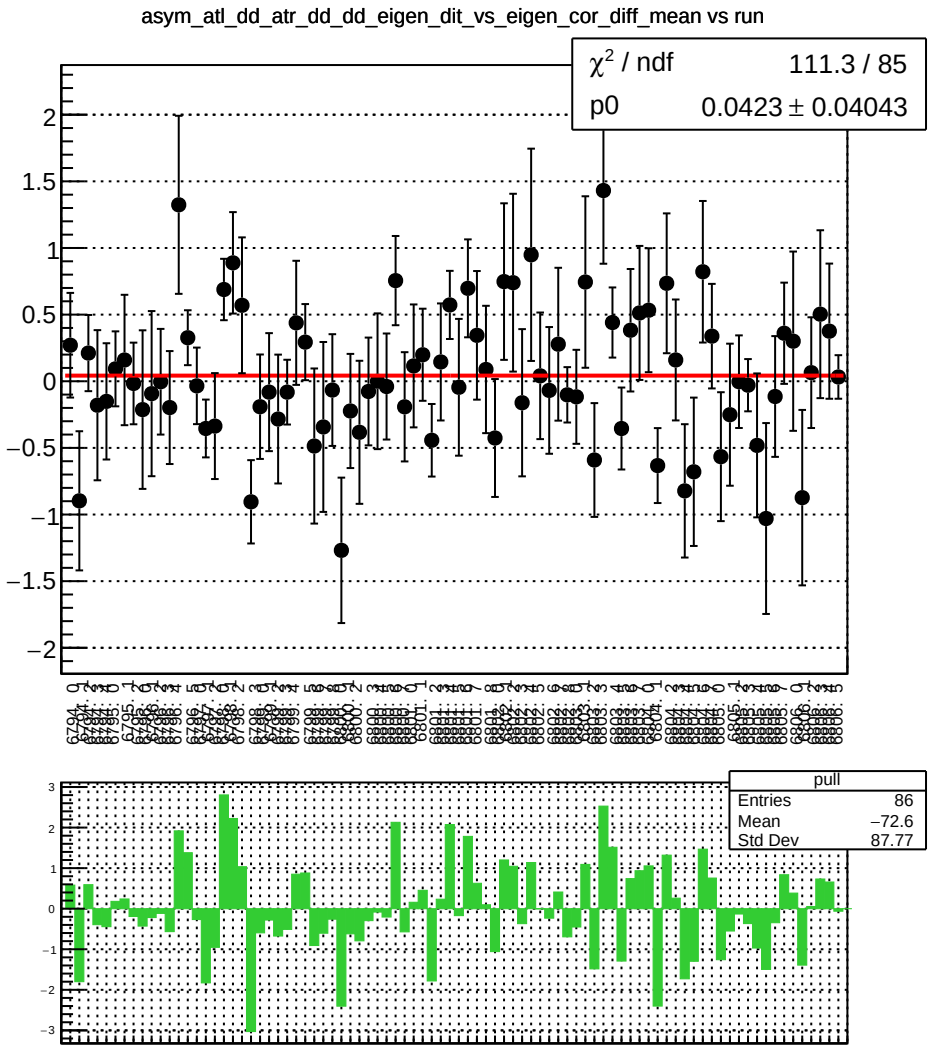

pull1D
Entries 86
Mean −0.02712
Std Dev 0.9941

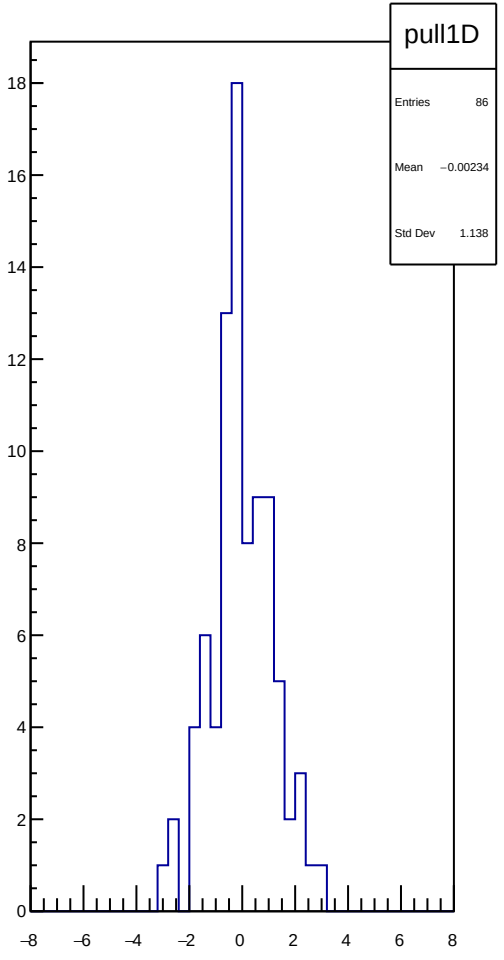

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6540 / 85
p0 0.004119 ± 3.182e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

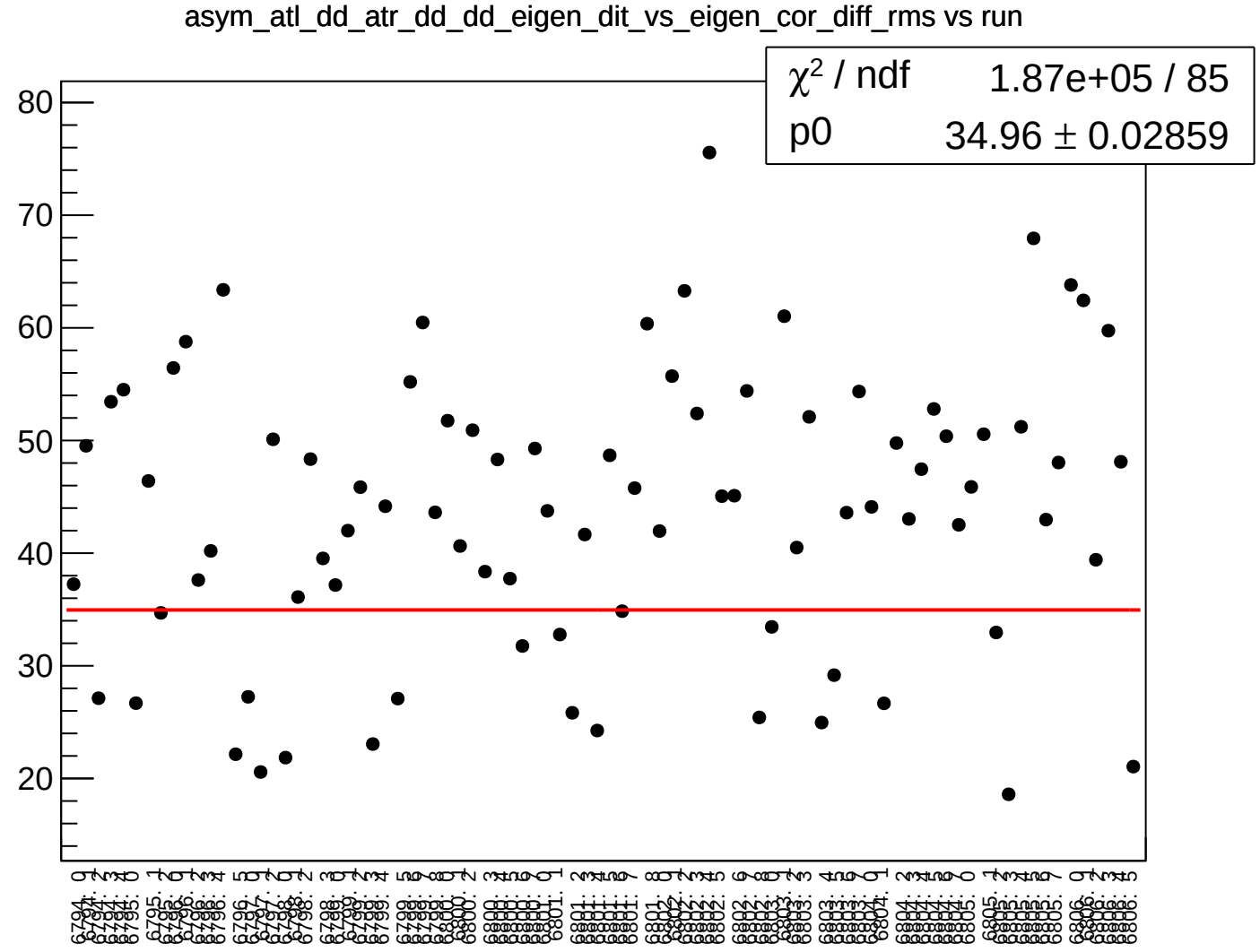

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.0423 ± 0.04043
pull
Entries 86
Mean −72.6
Std Dev 87.77

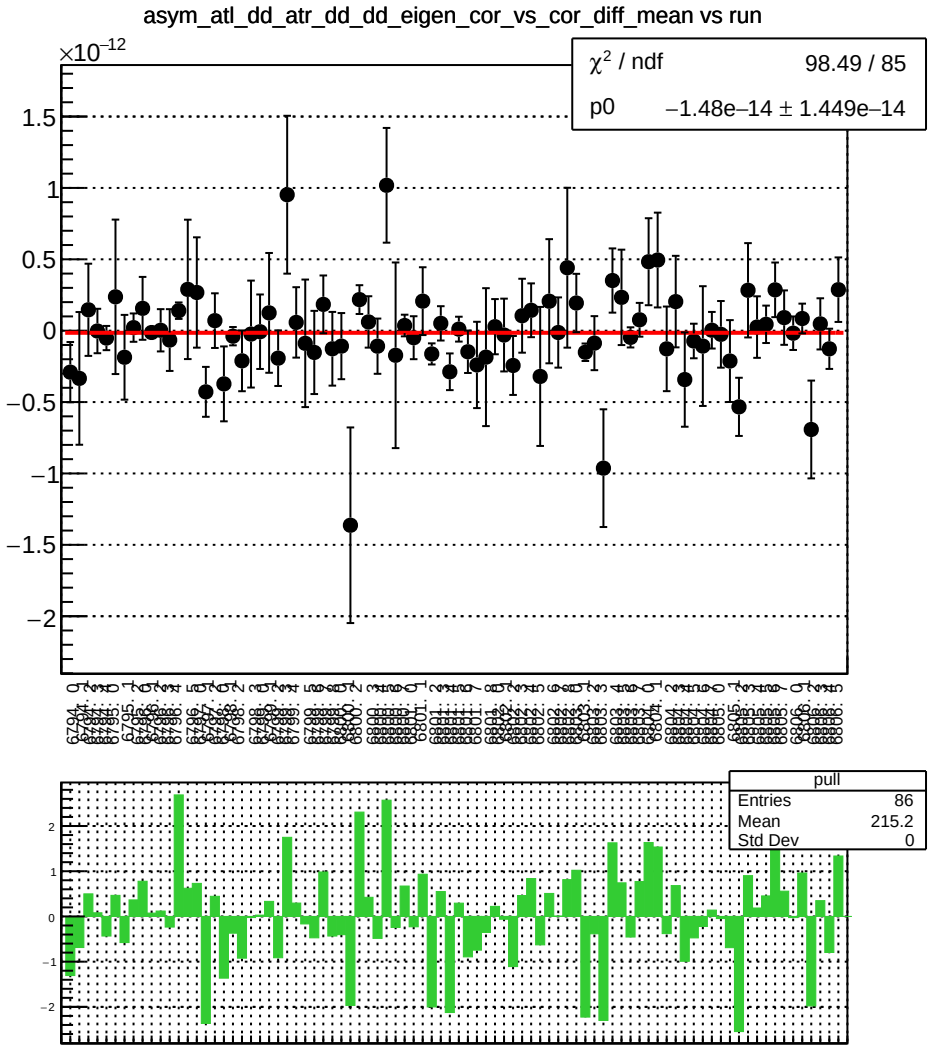

pull1D
Entries 86
Mean −0.00234
Std Dev 1.138

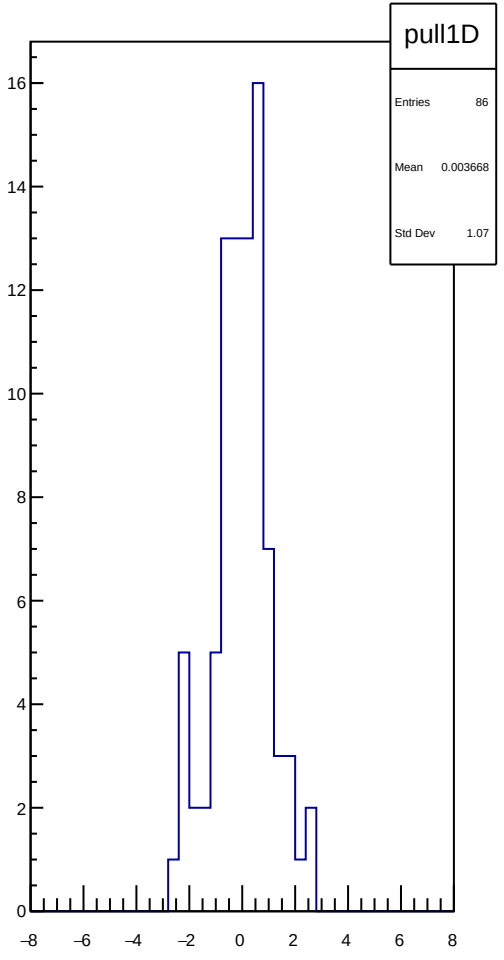

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

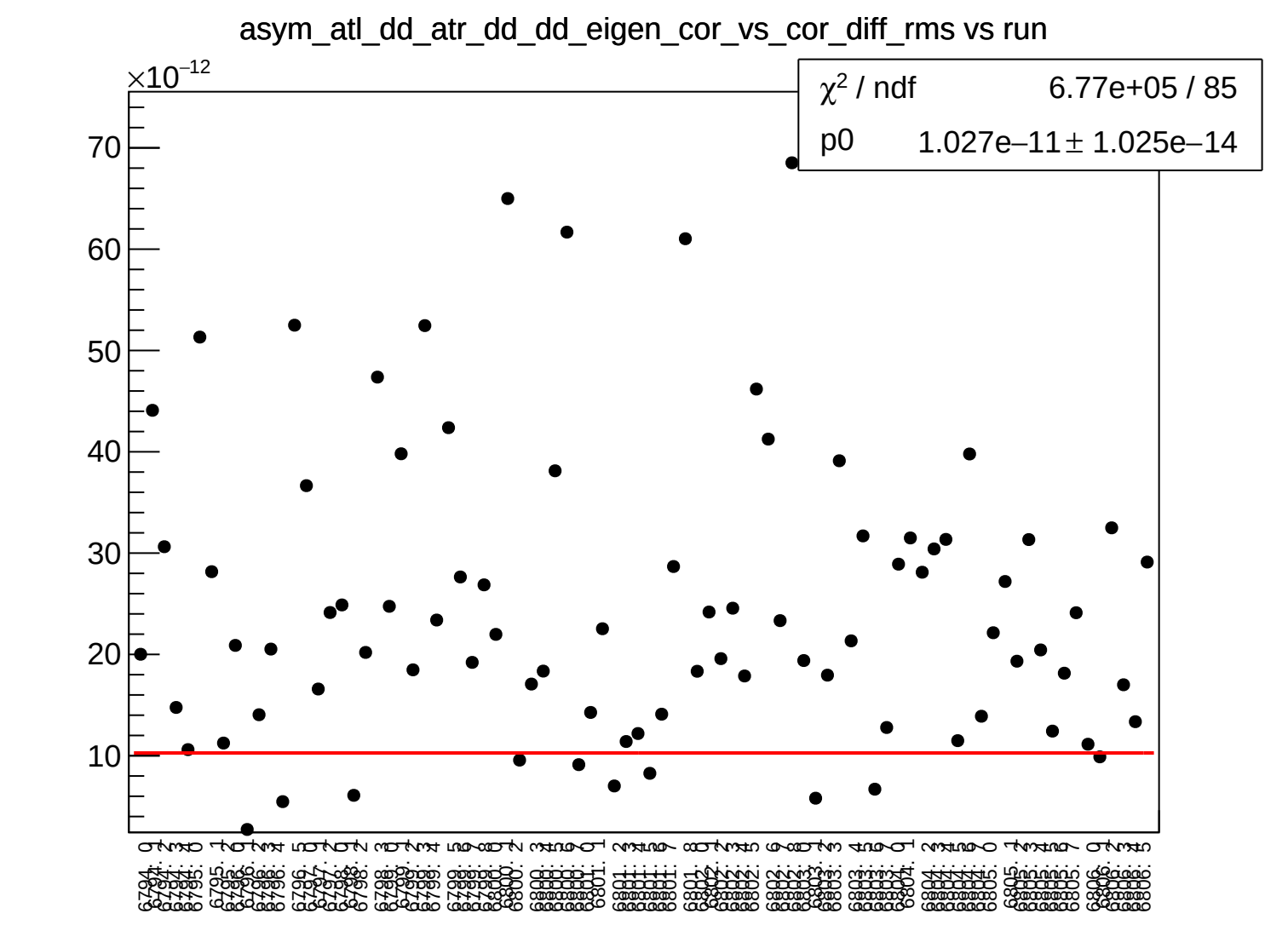

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.0423 ± 0.04043
pull
Entries 86
Mean −72.6
Std Dev 87.77

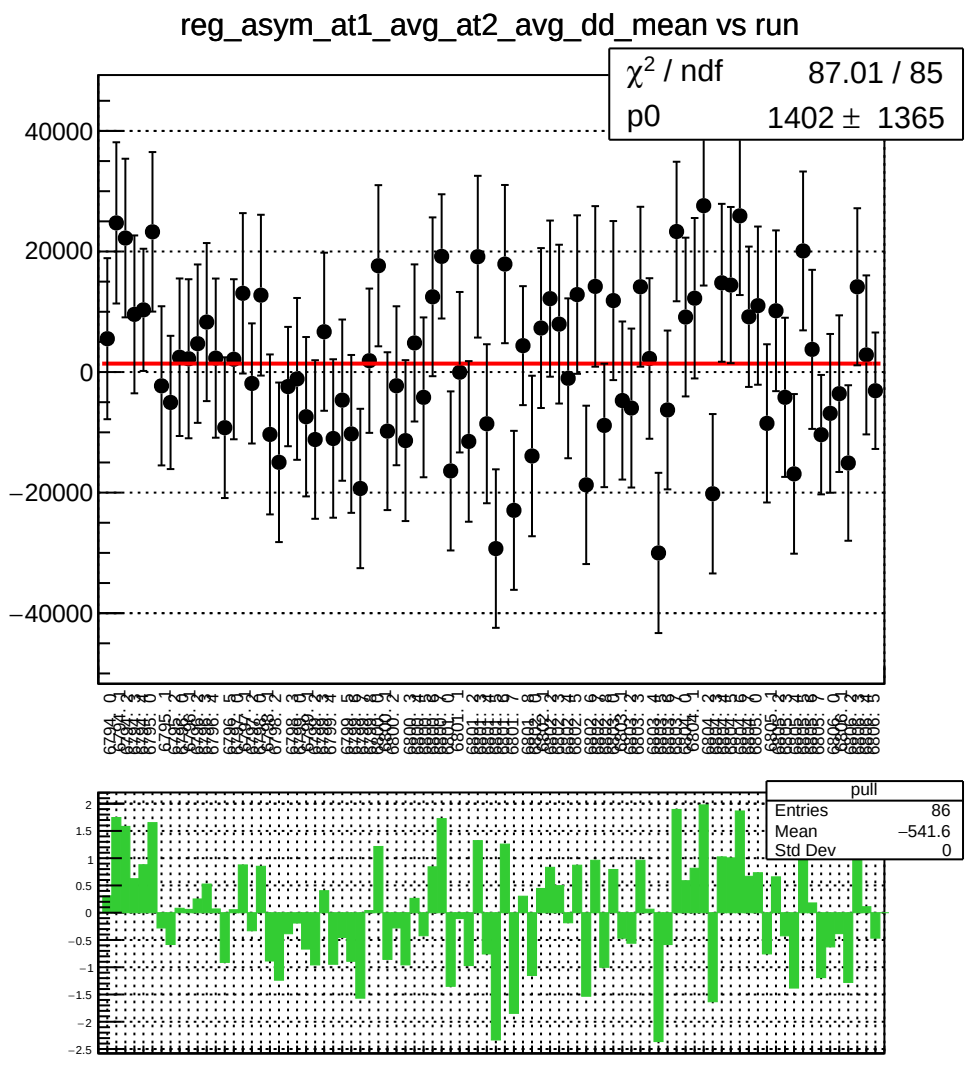

pull1D
Entries 86
Mean −0.00234
Std Dev 1.138

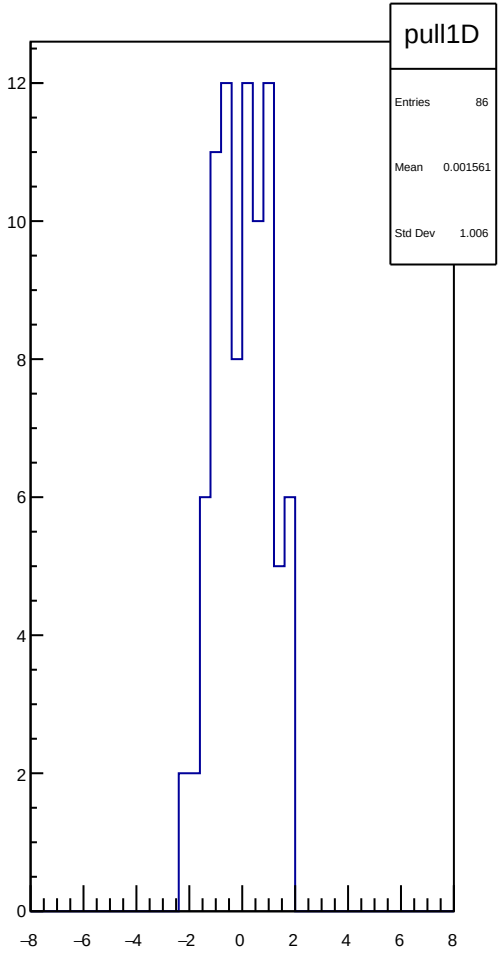

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

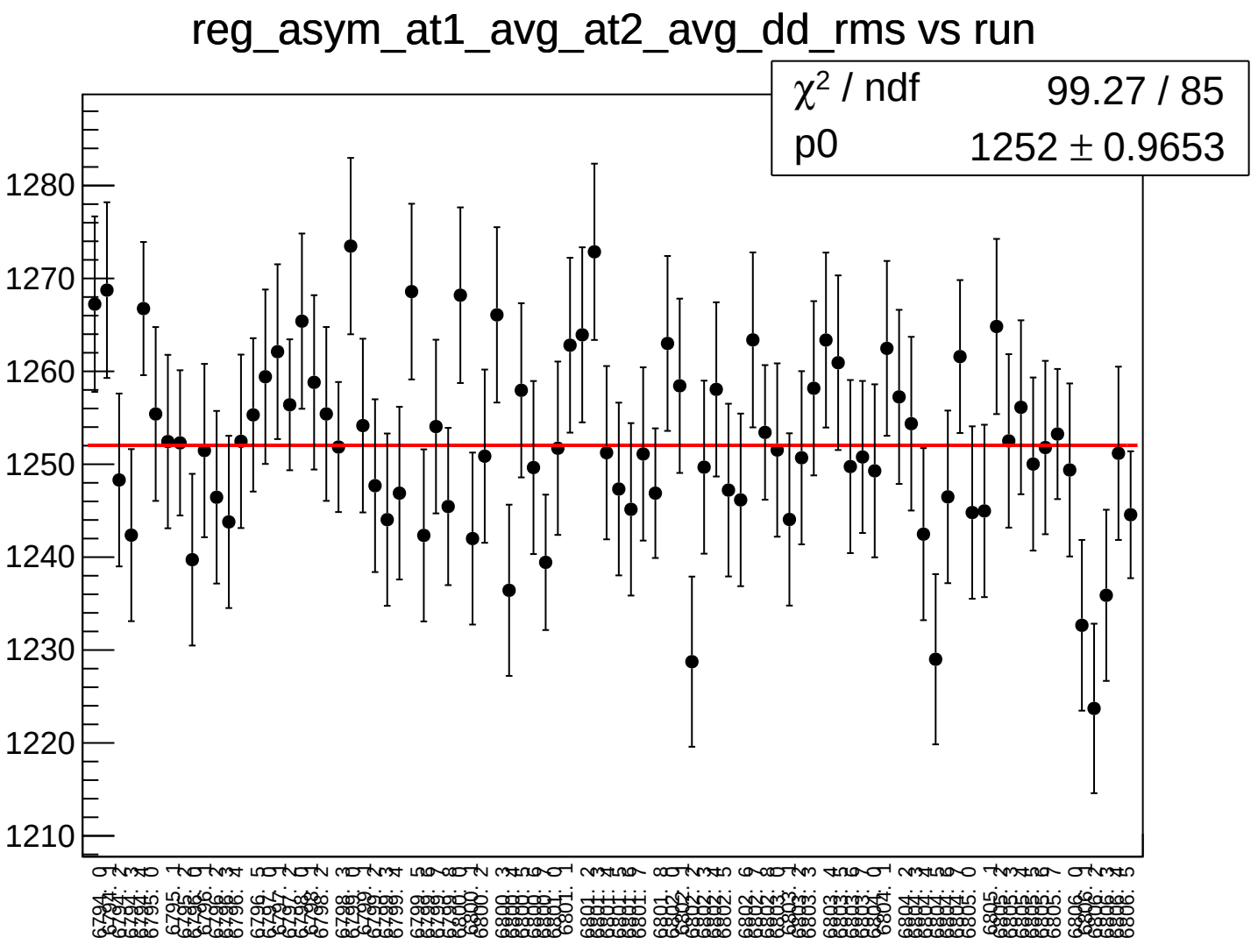

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.49 / 85
p0 −1.48e−14 ± 1.449e−14
pull
Entries 86
Mean 215.2
Std Dev 0

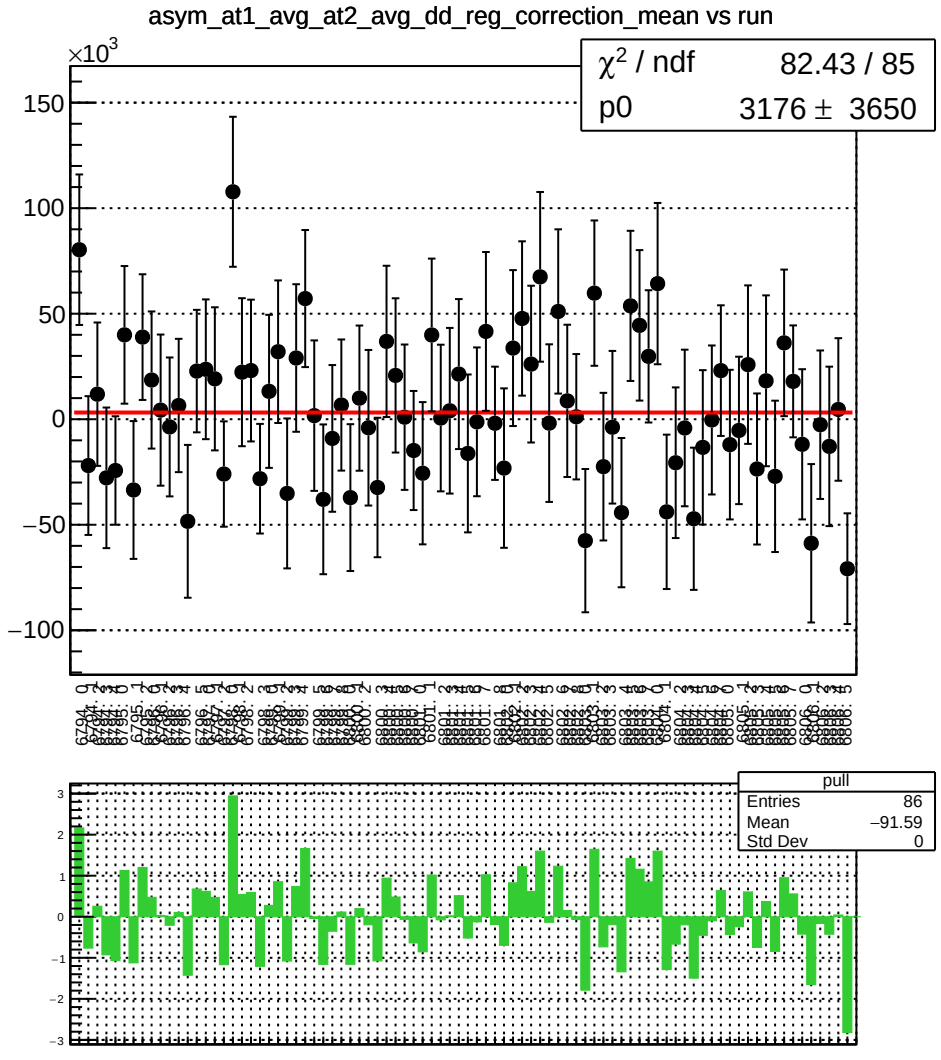

pull1D
Entries 86
Mean 0.003668
Std Dev 1.07

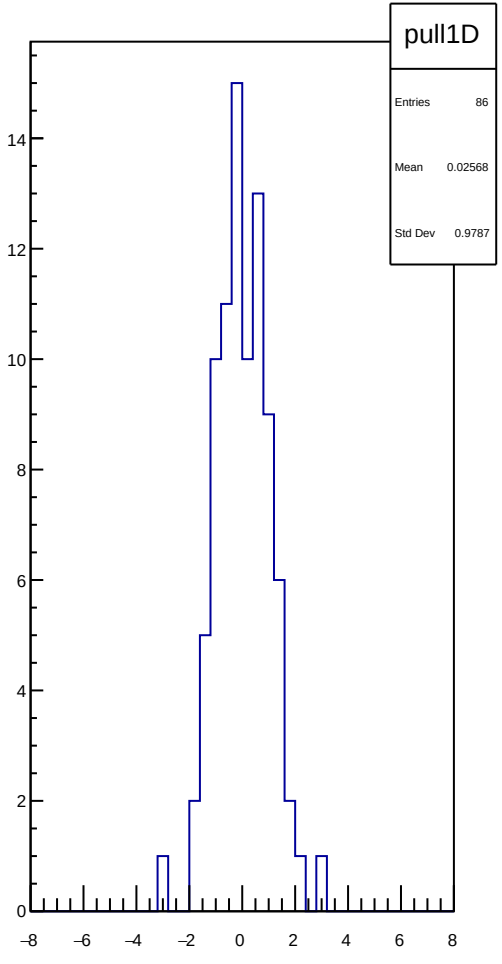

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.77e+05 / 85
p0 1.027e−11 ± 1.025e−14
70
60
50
40
30
20
10

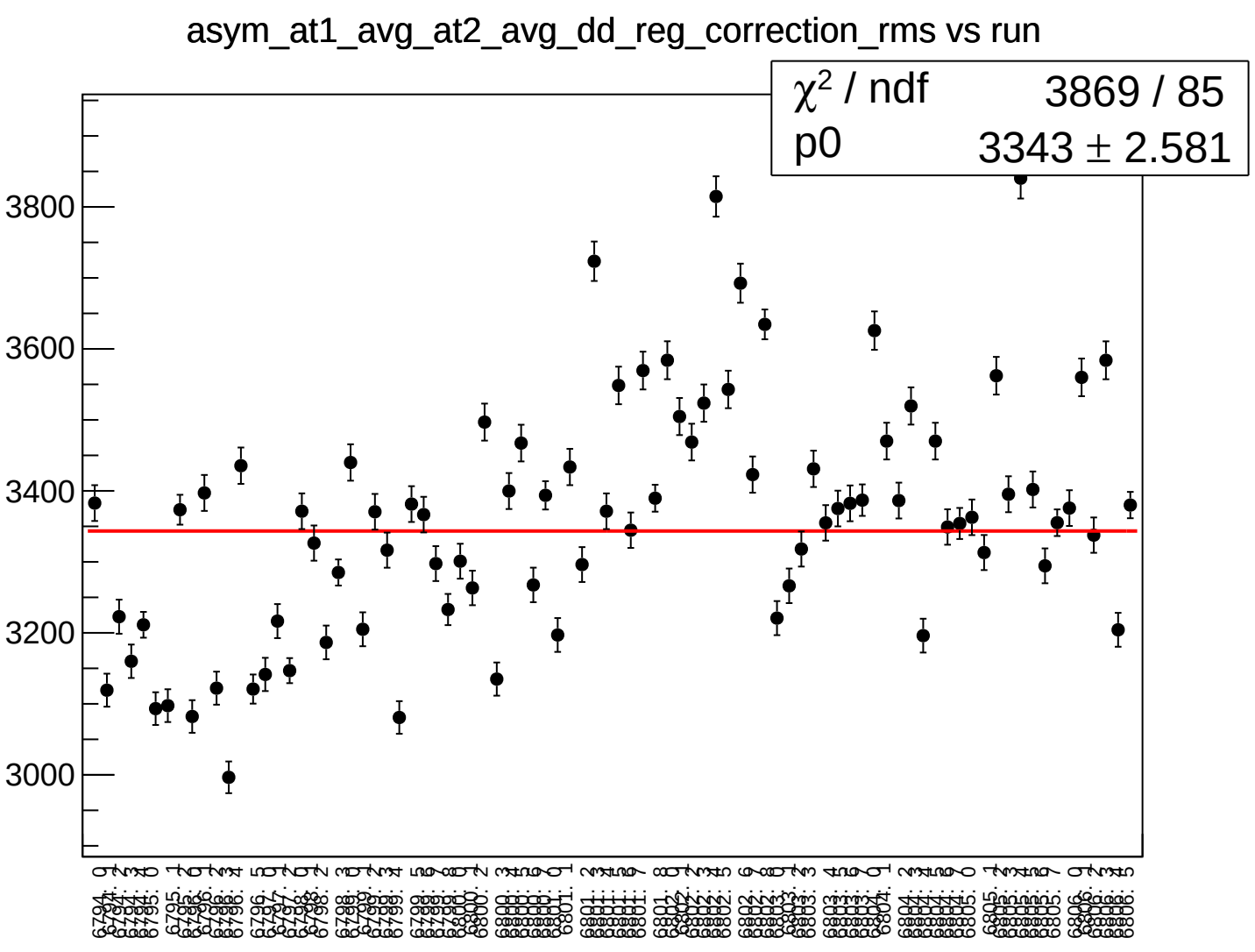

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

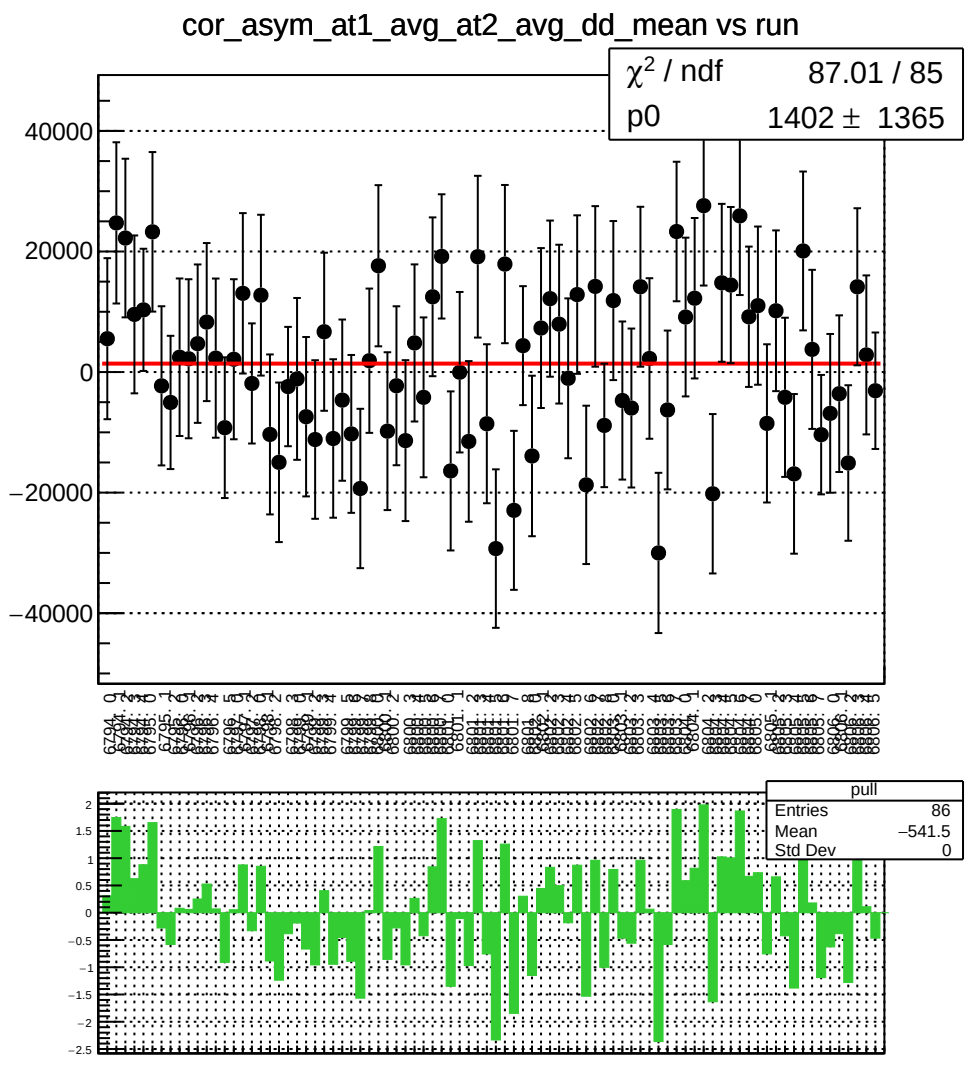

pull1D
Entries 86
Mean 0.001561
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

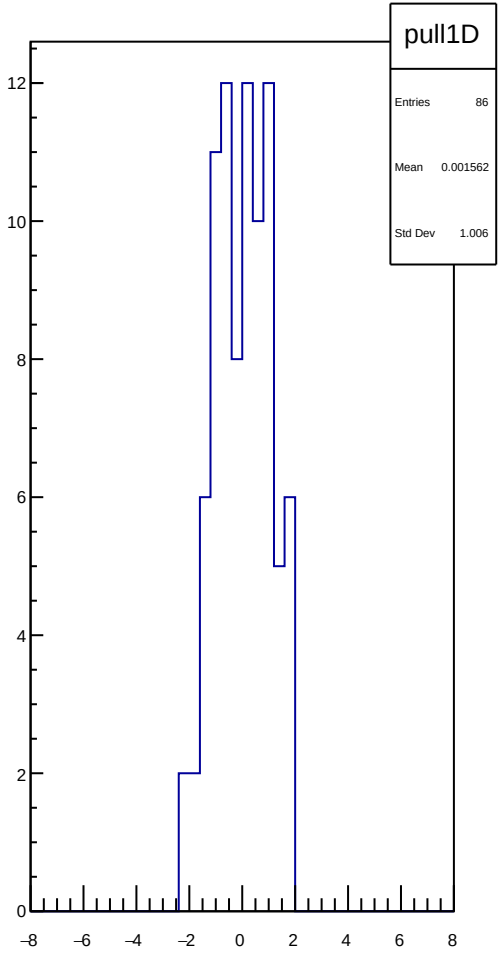

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

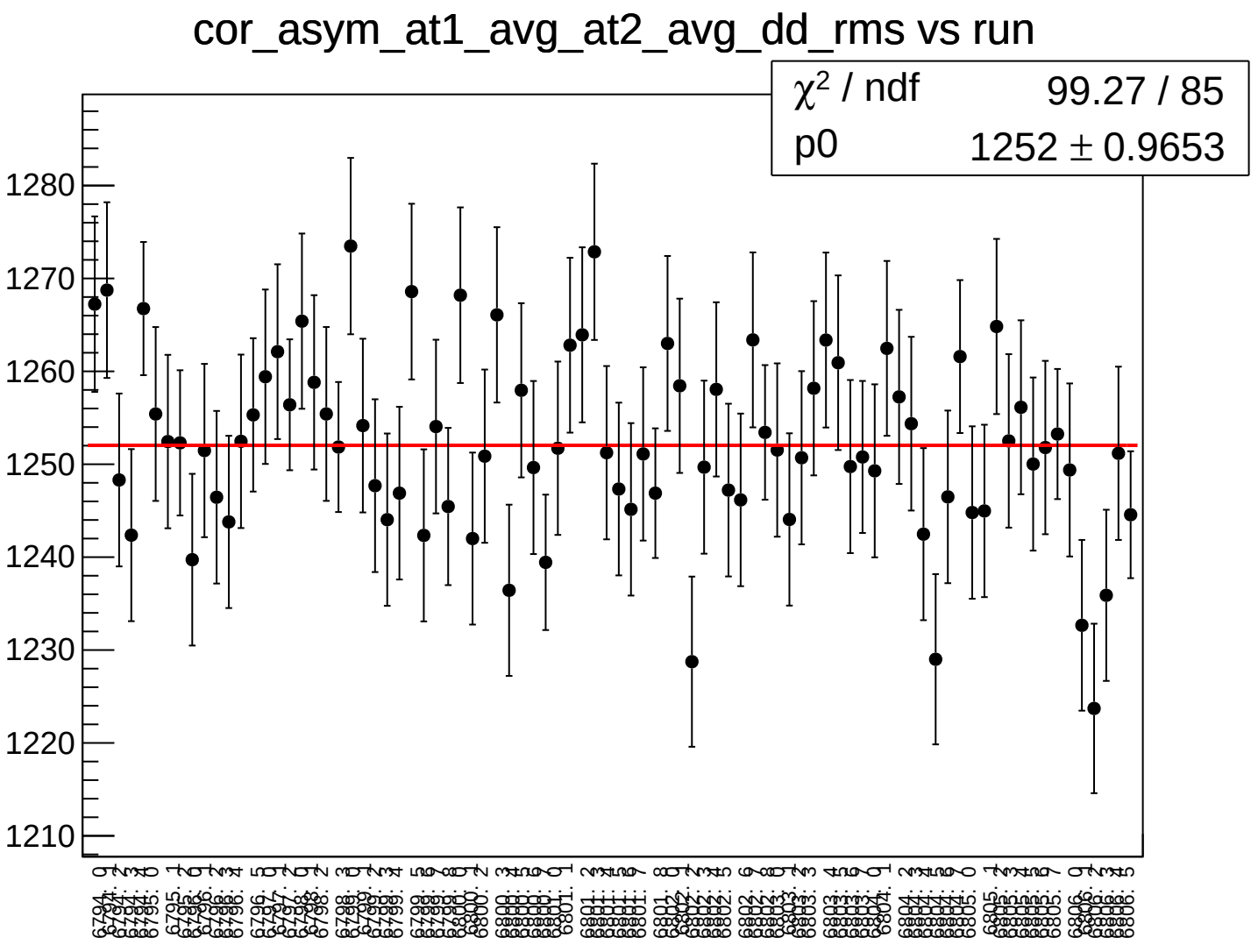

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.59
Std Dev 0
3
2
1
0
−1
−2
−3

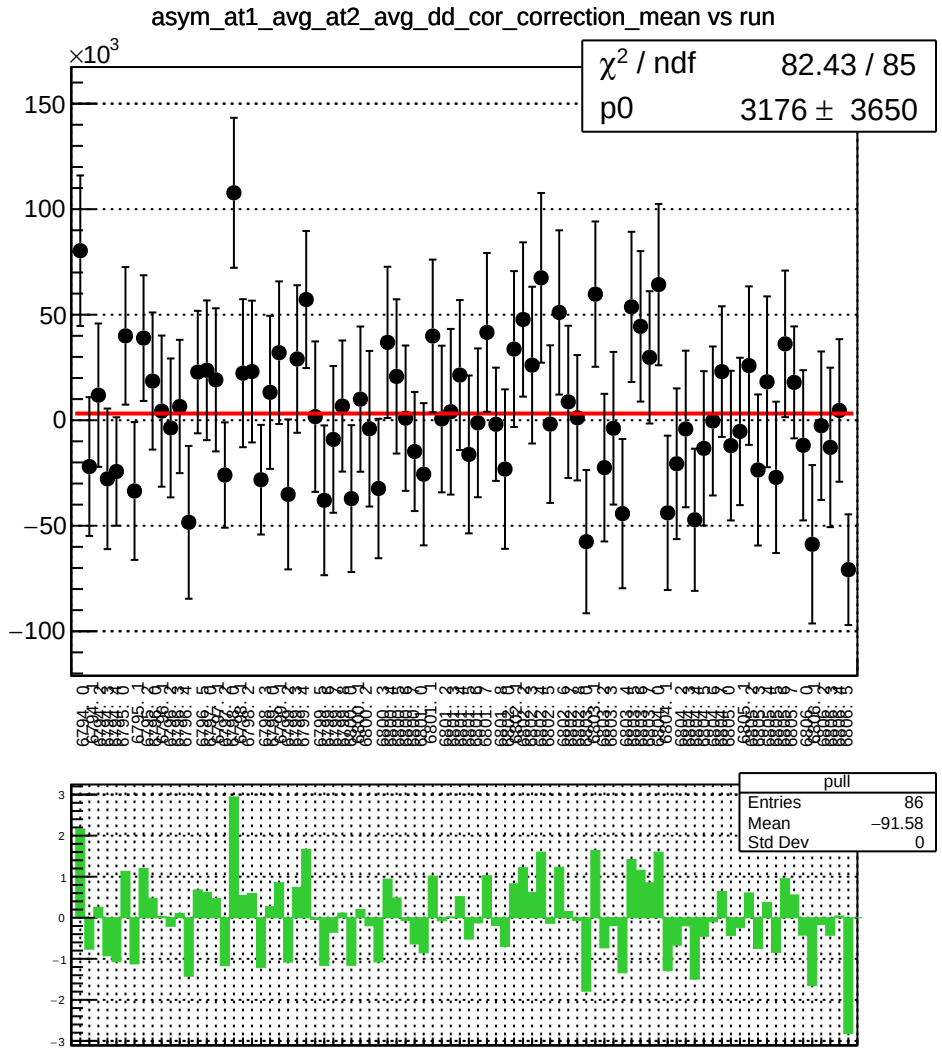

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

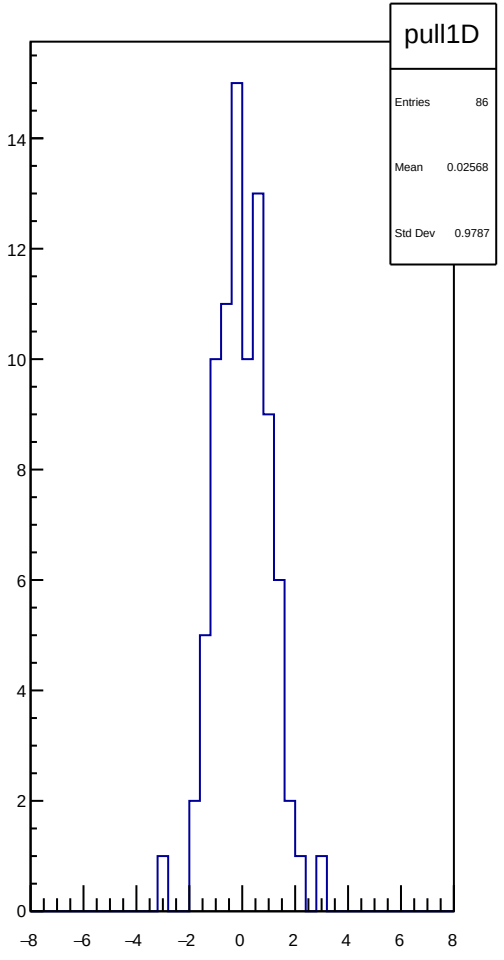

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

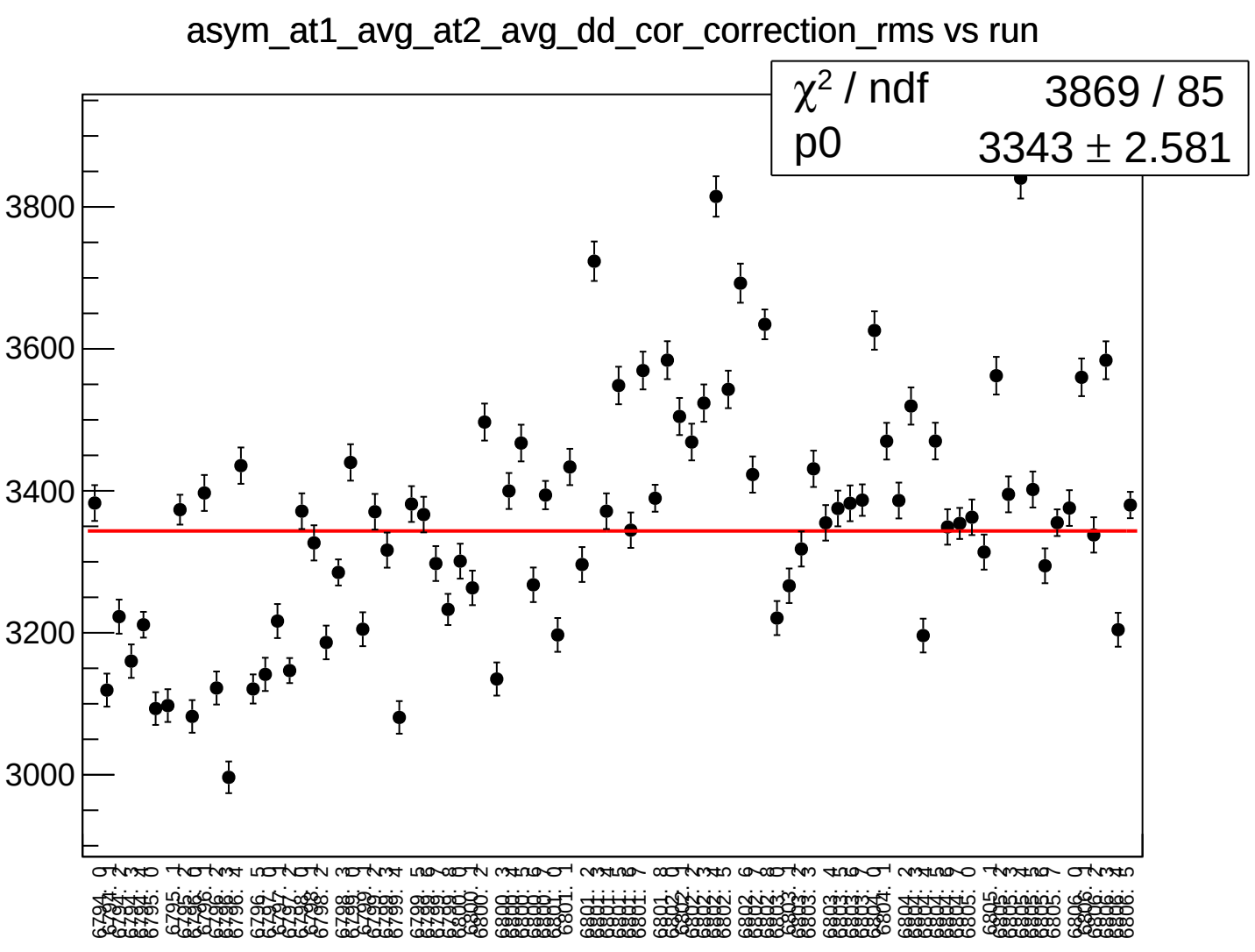

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

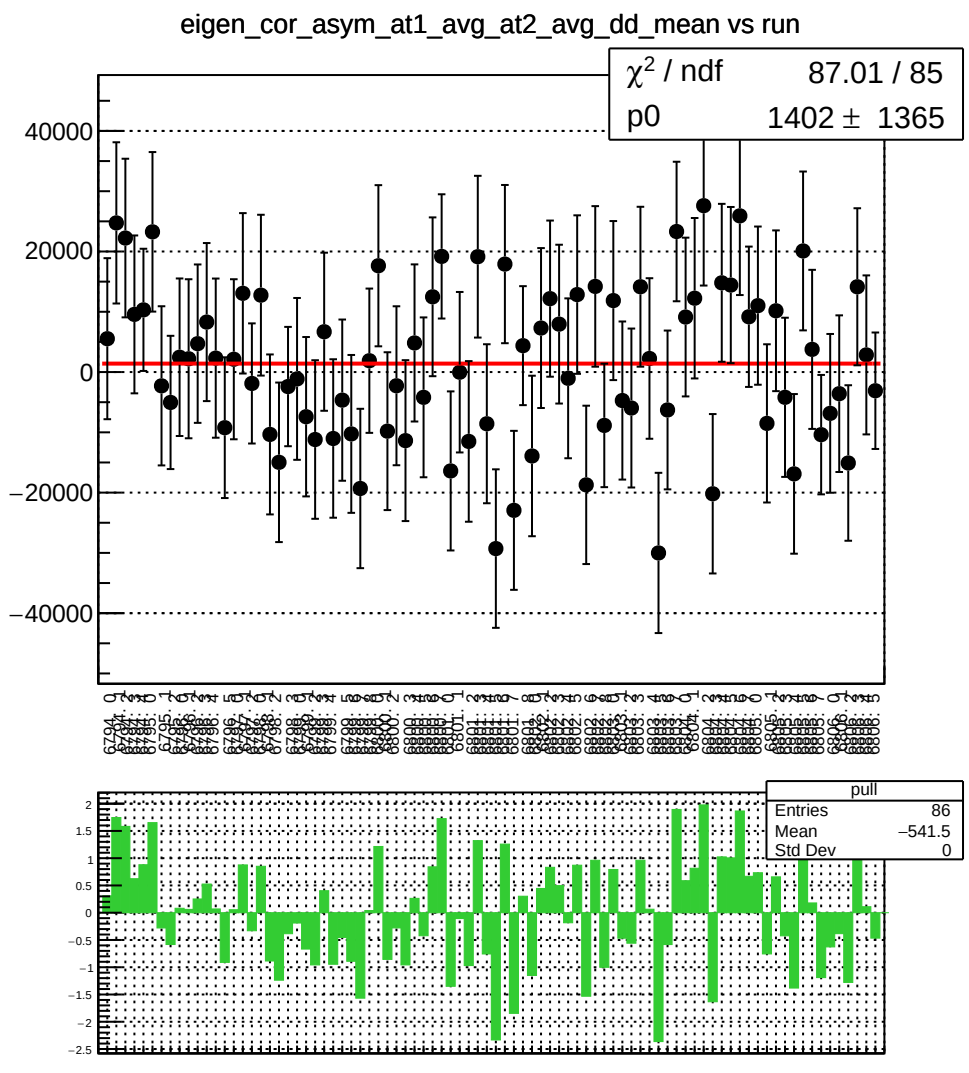

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

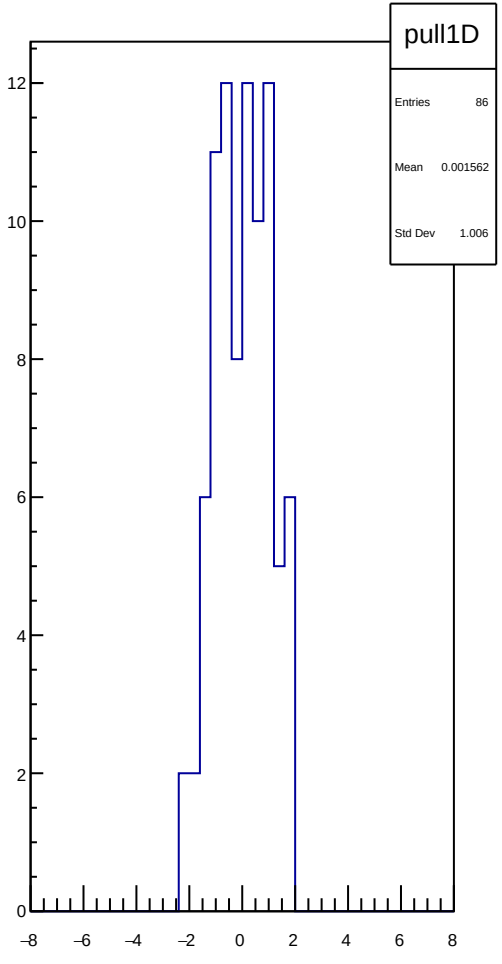

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

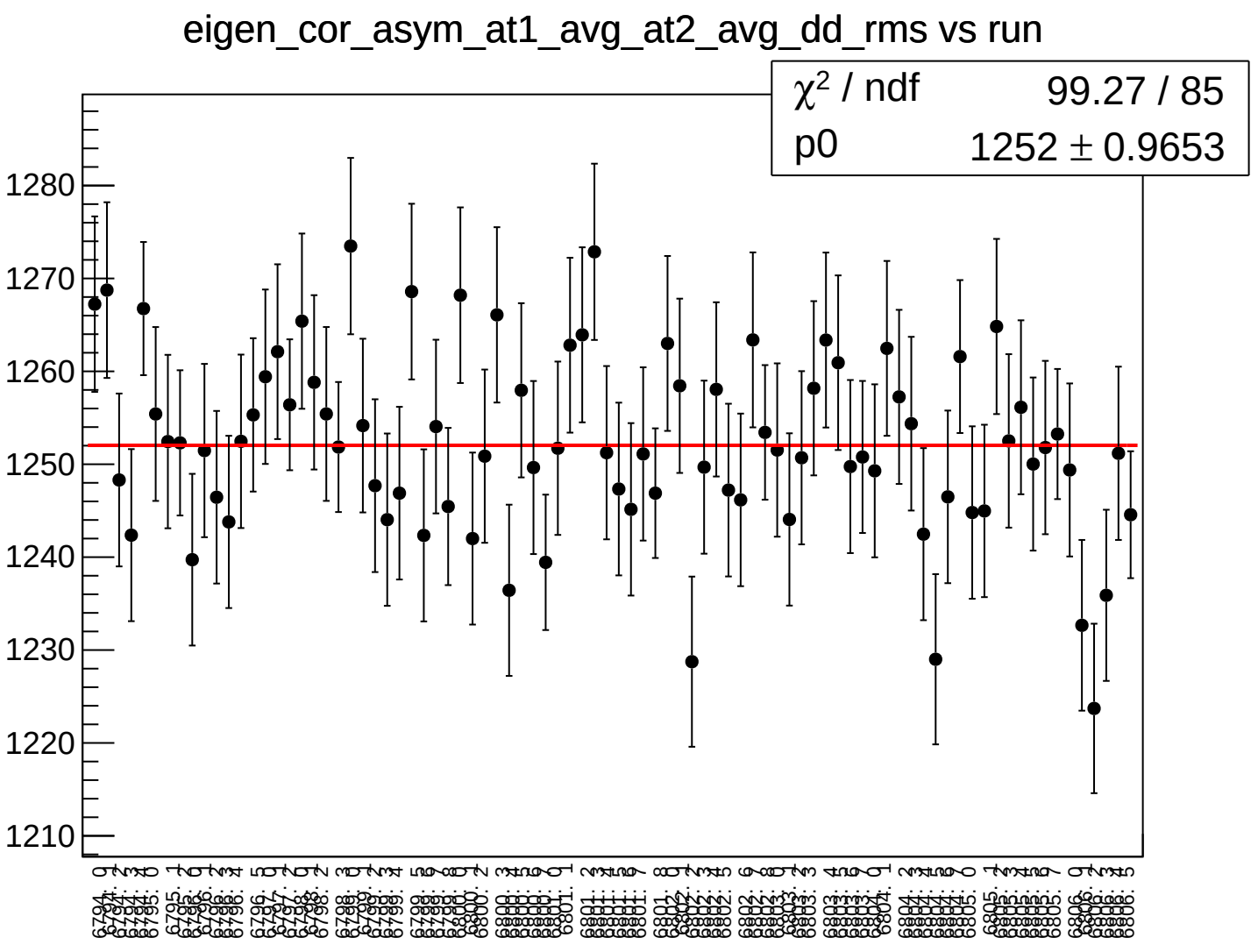

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

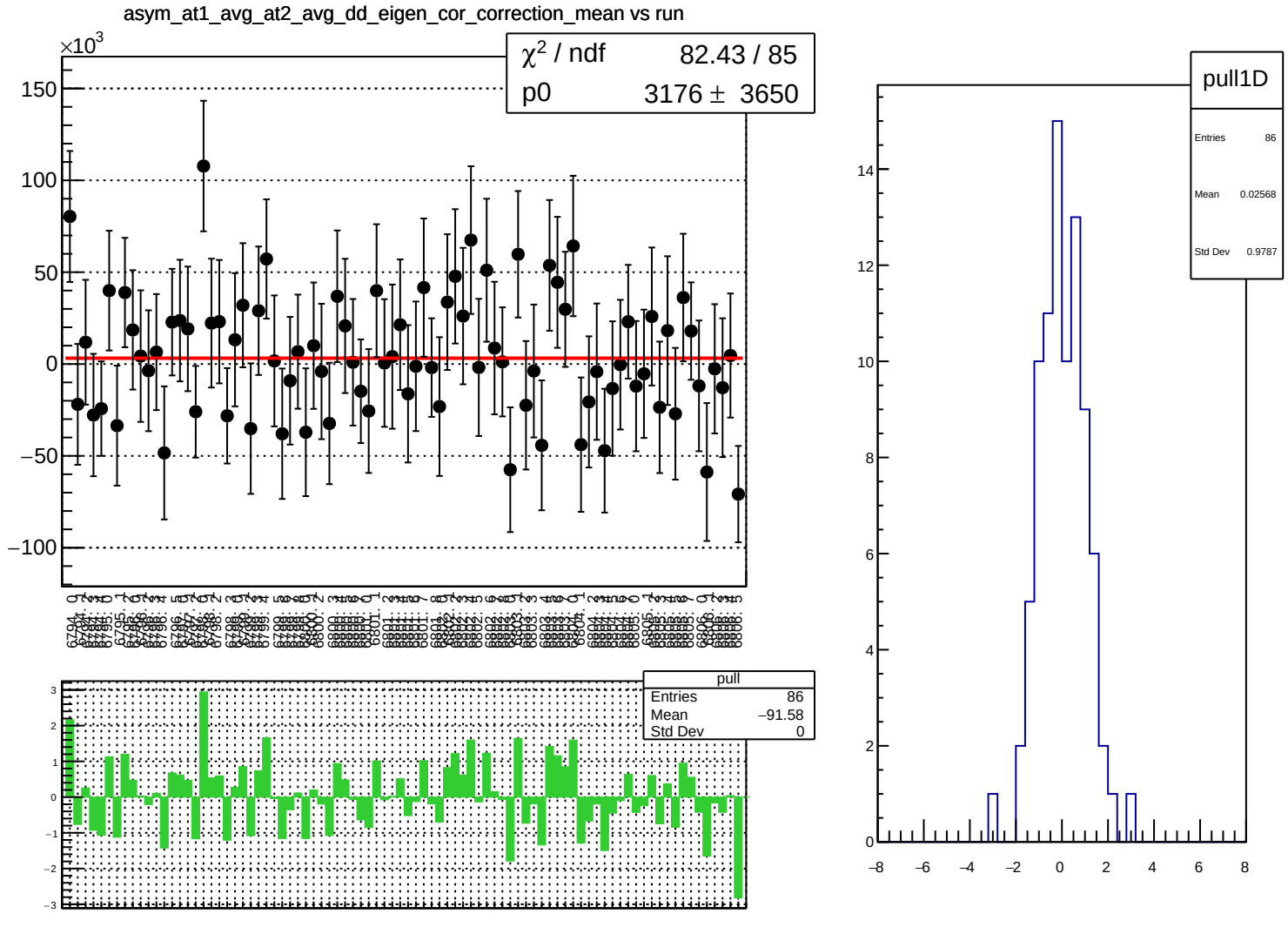

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

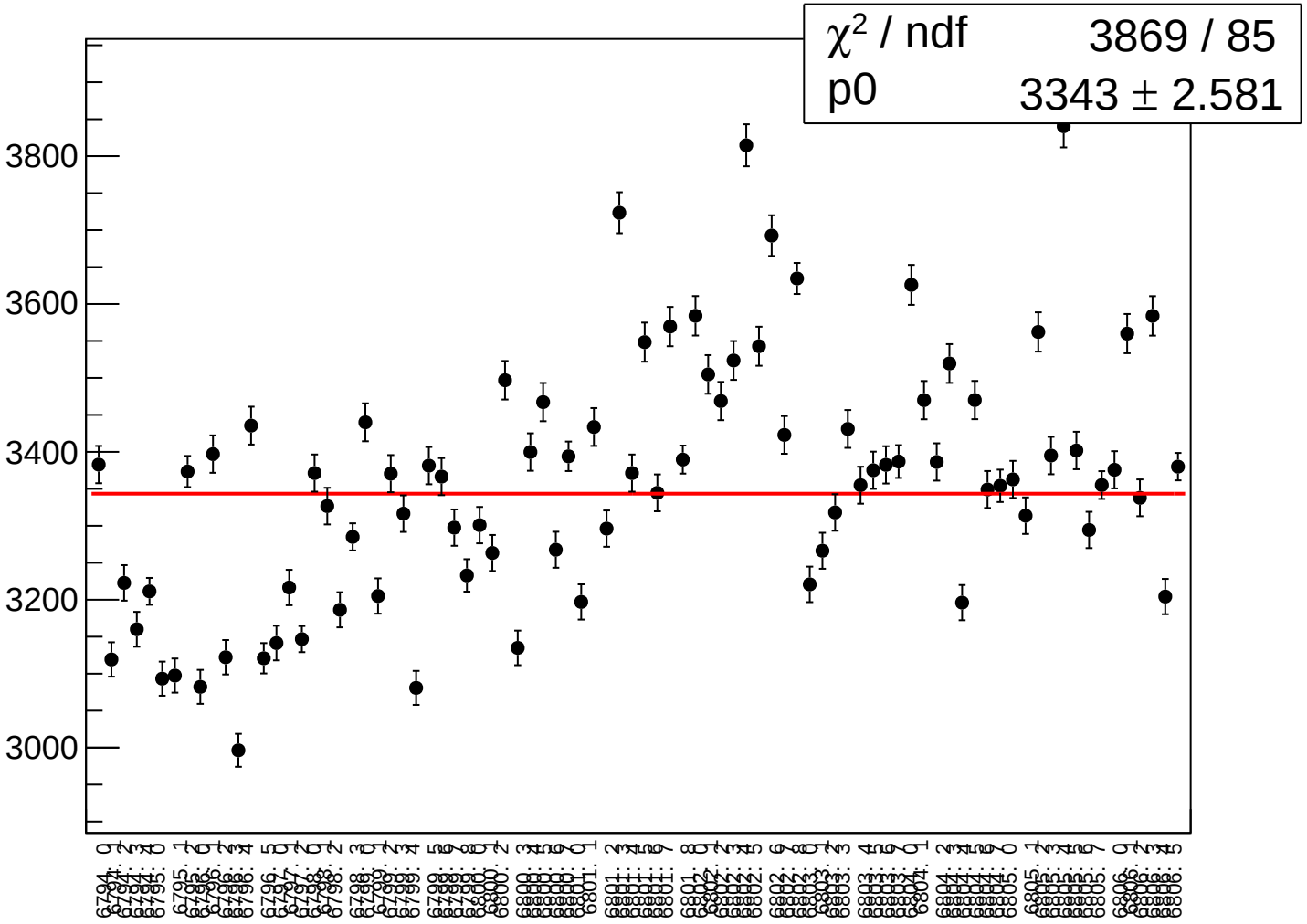

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

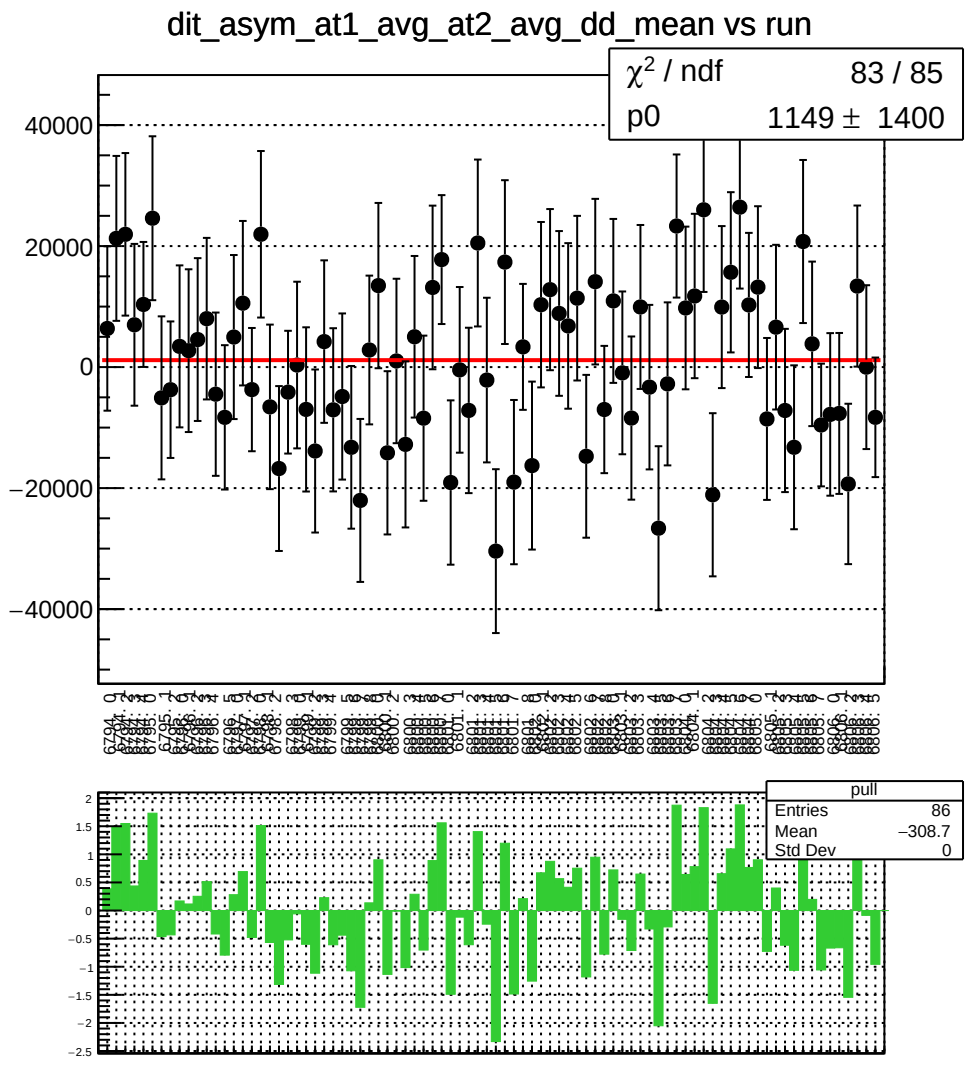

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

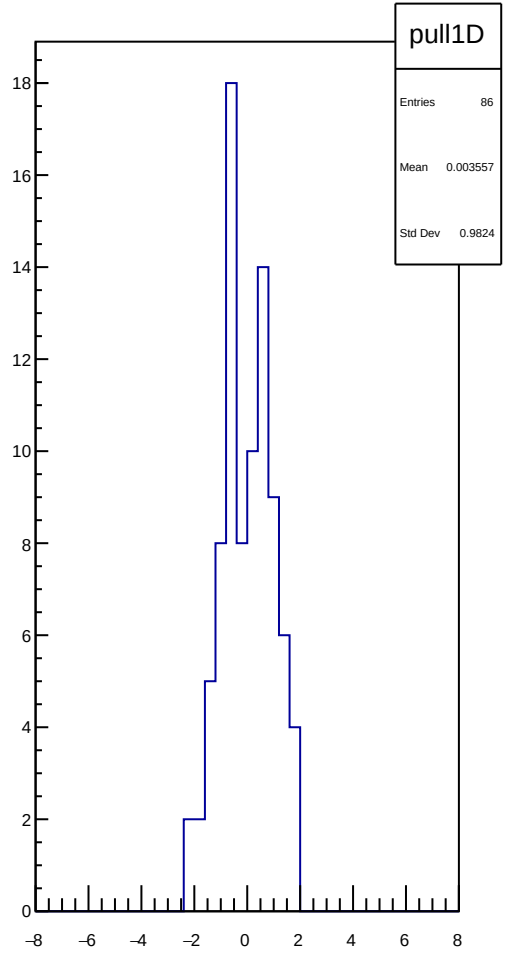

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

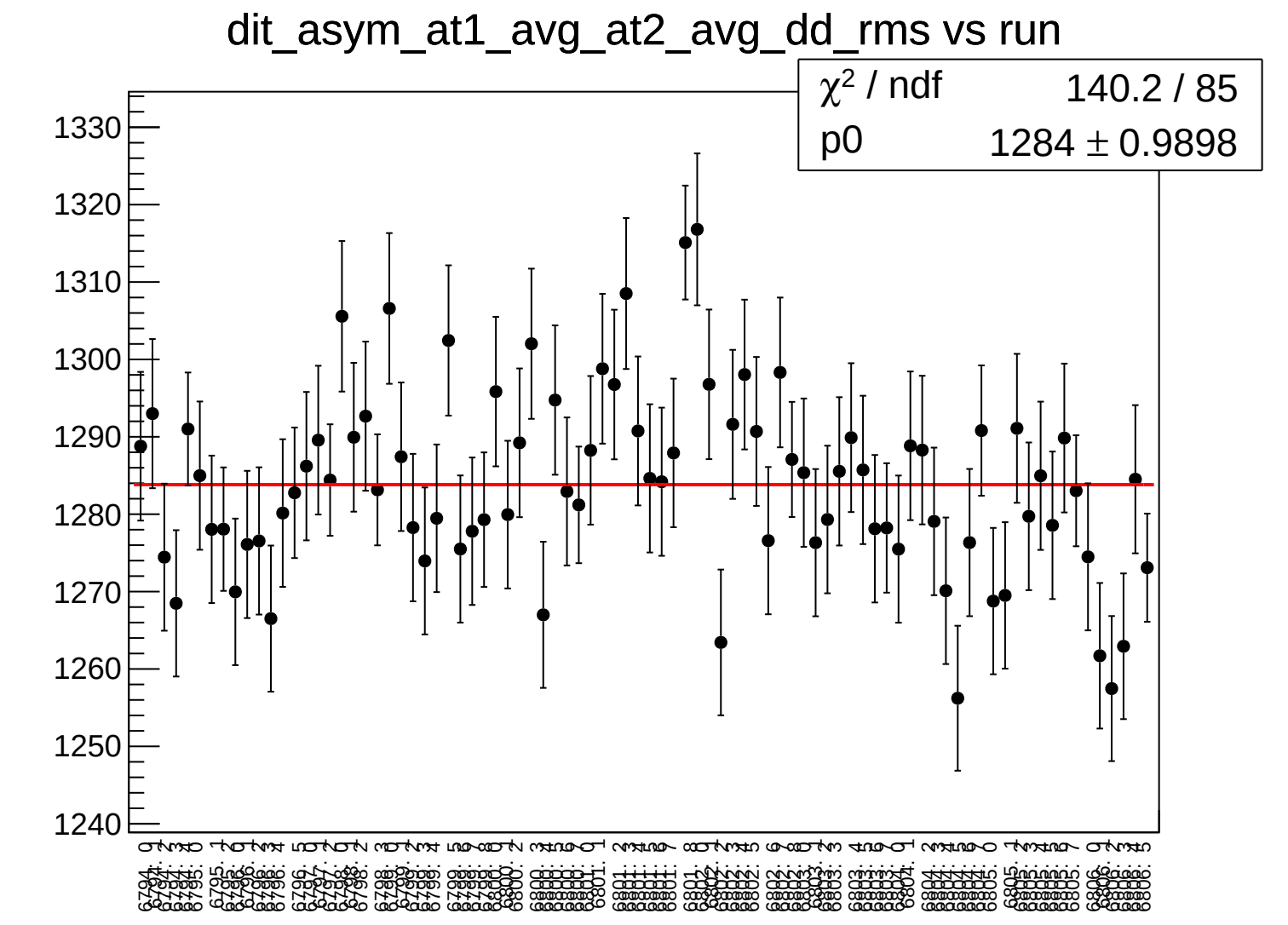

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

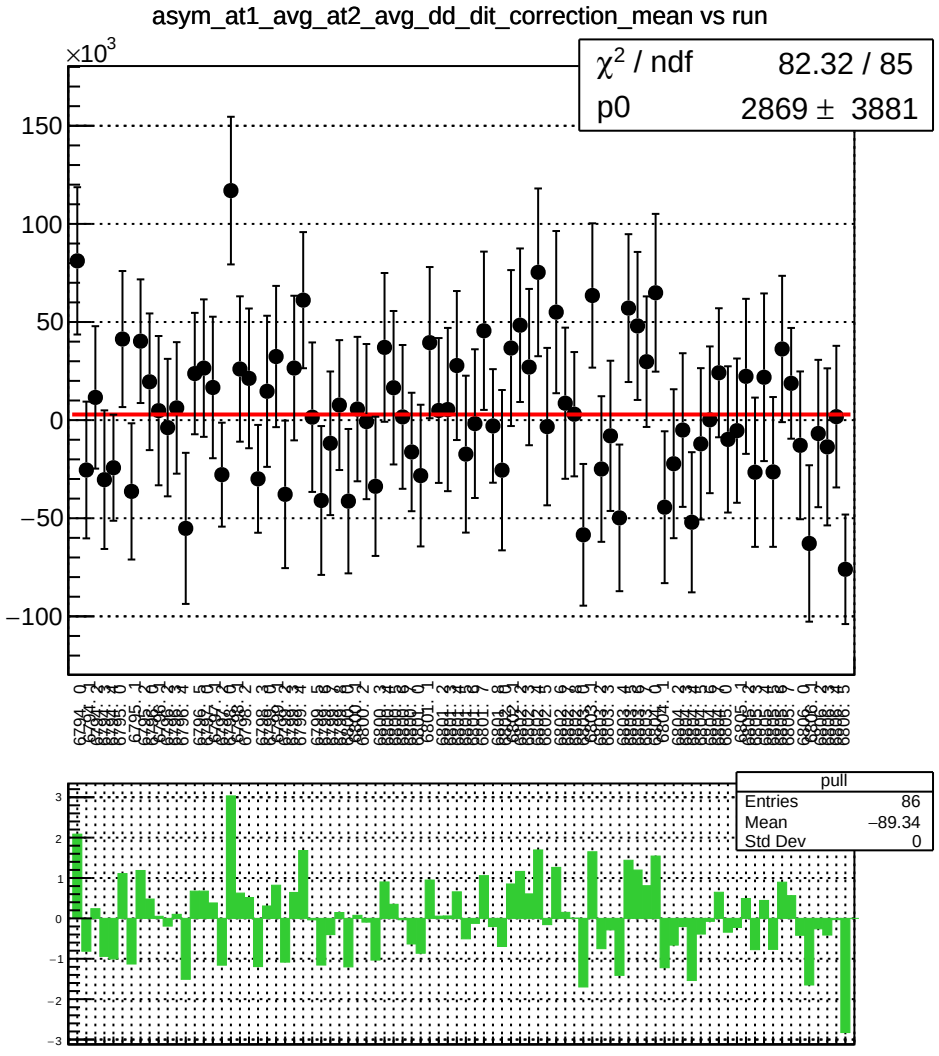

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

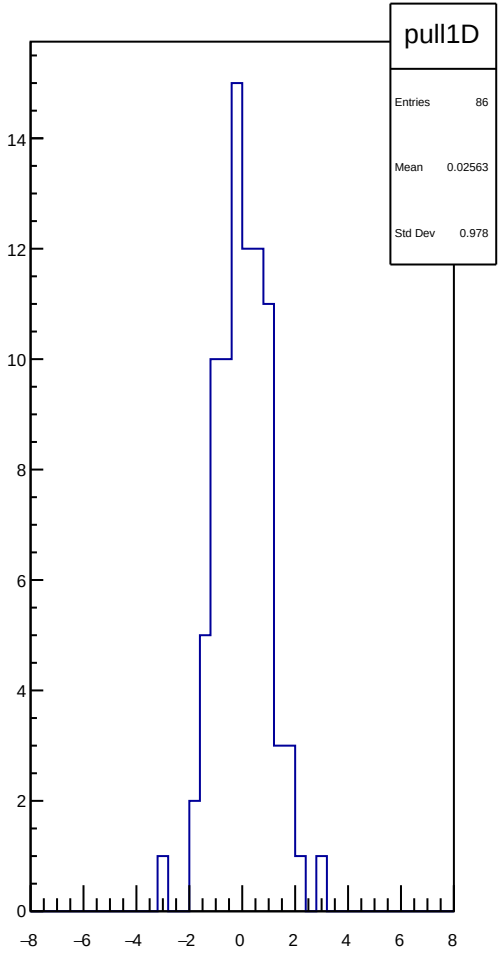

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

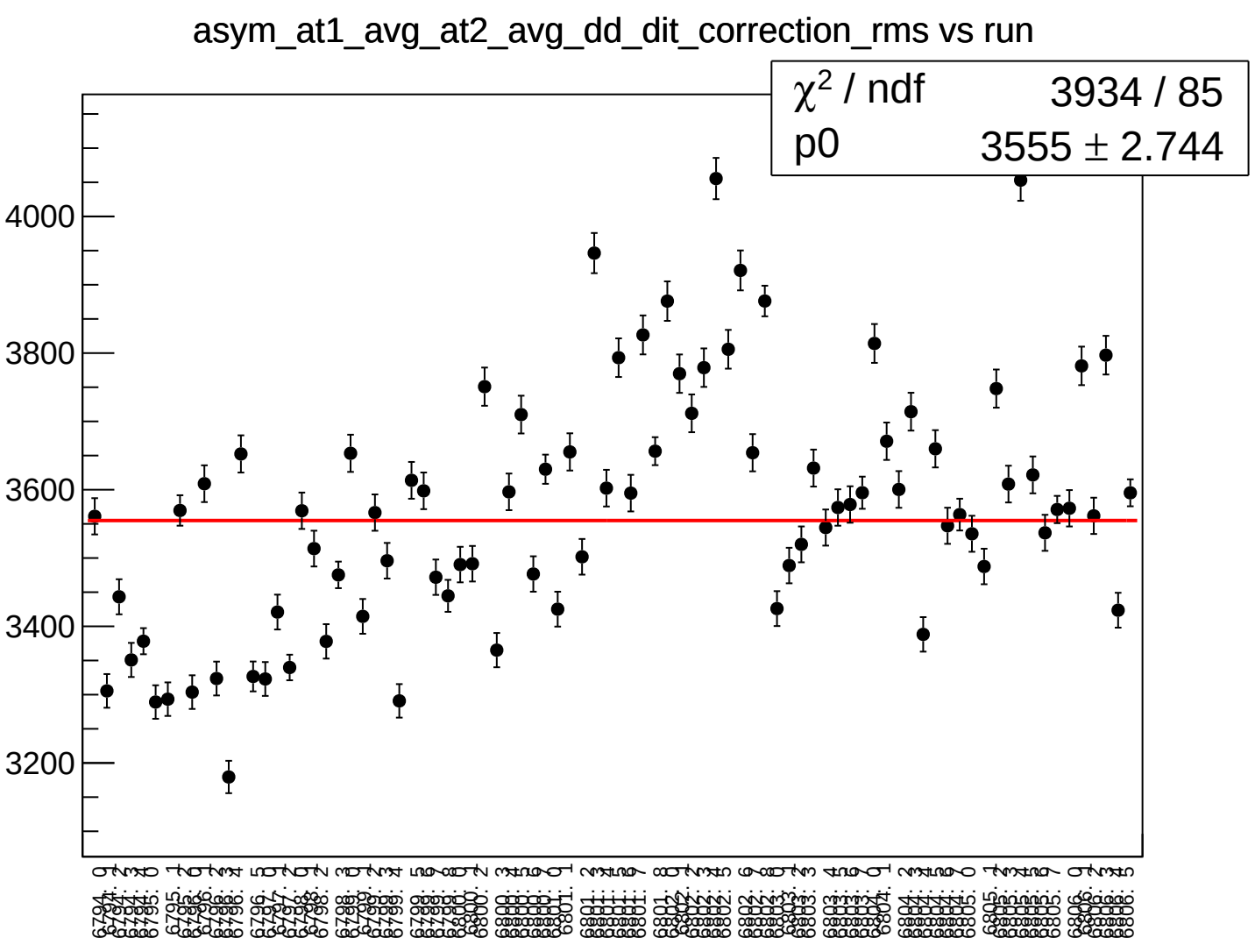

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

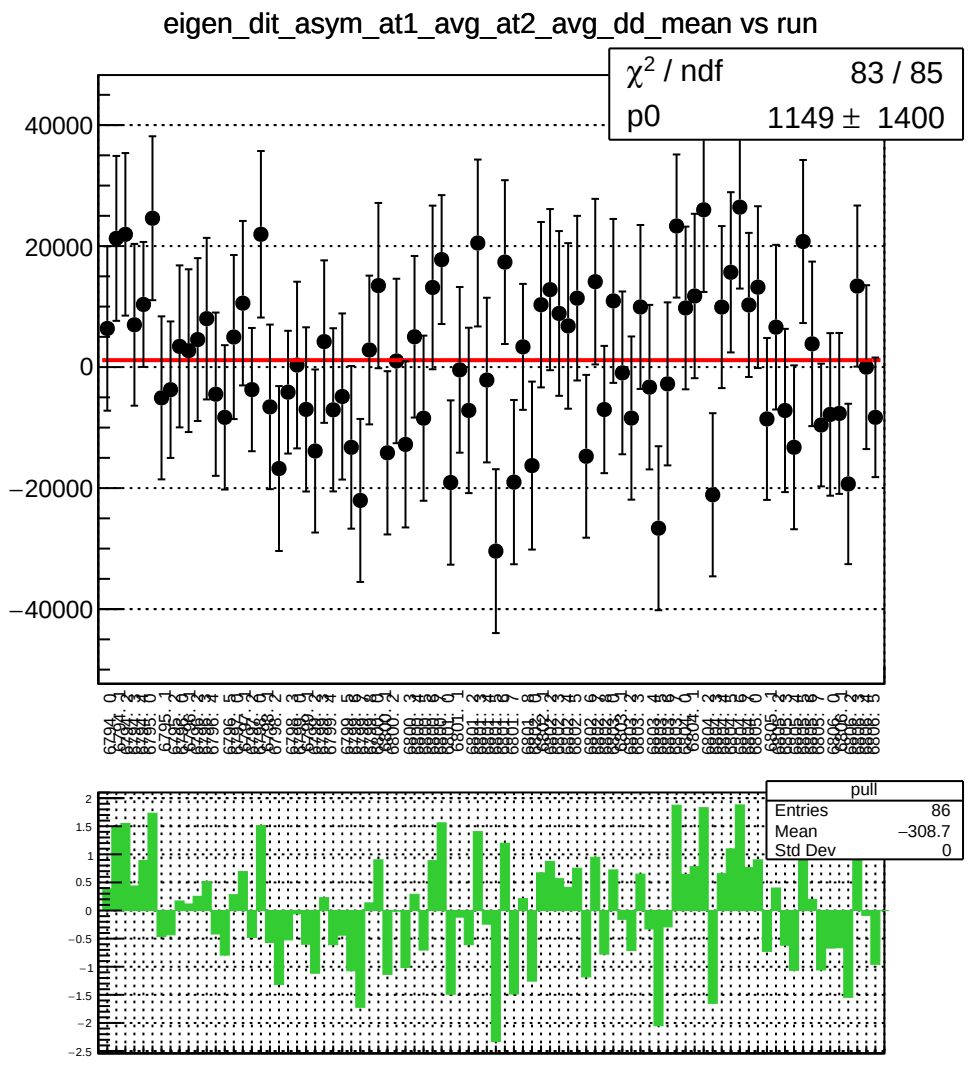

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

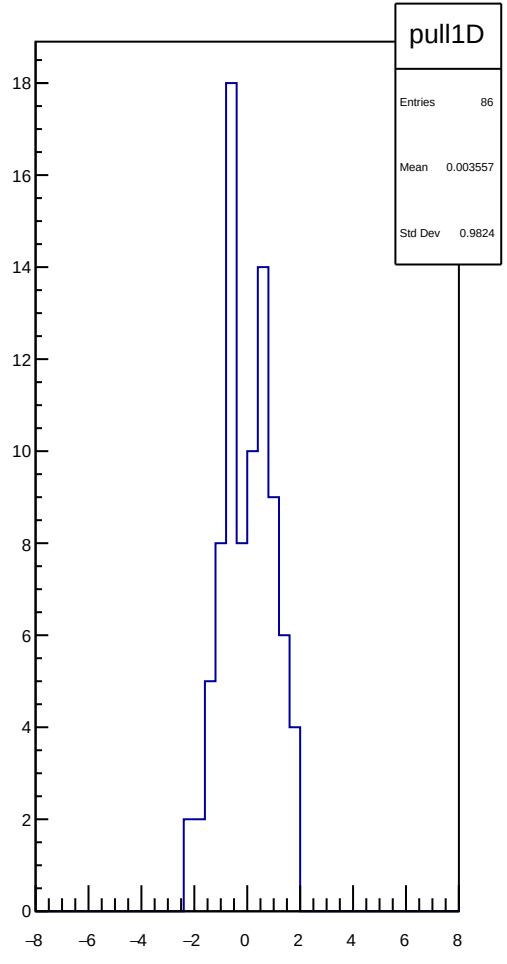

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

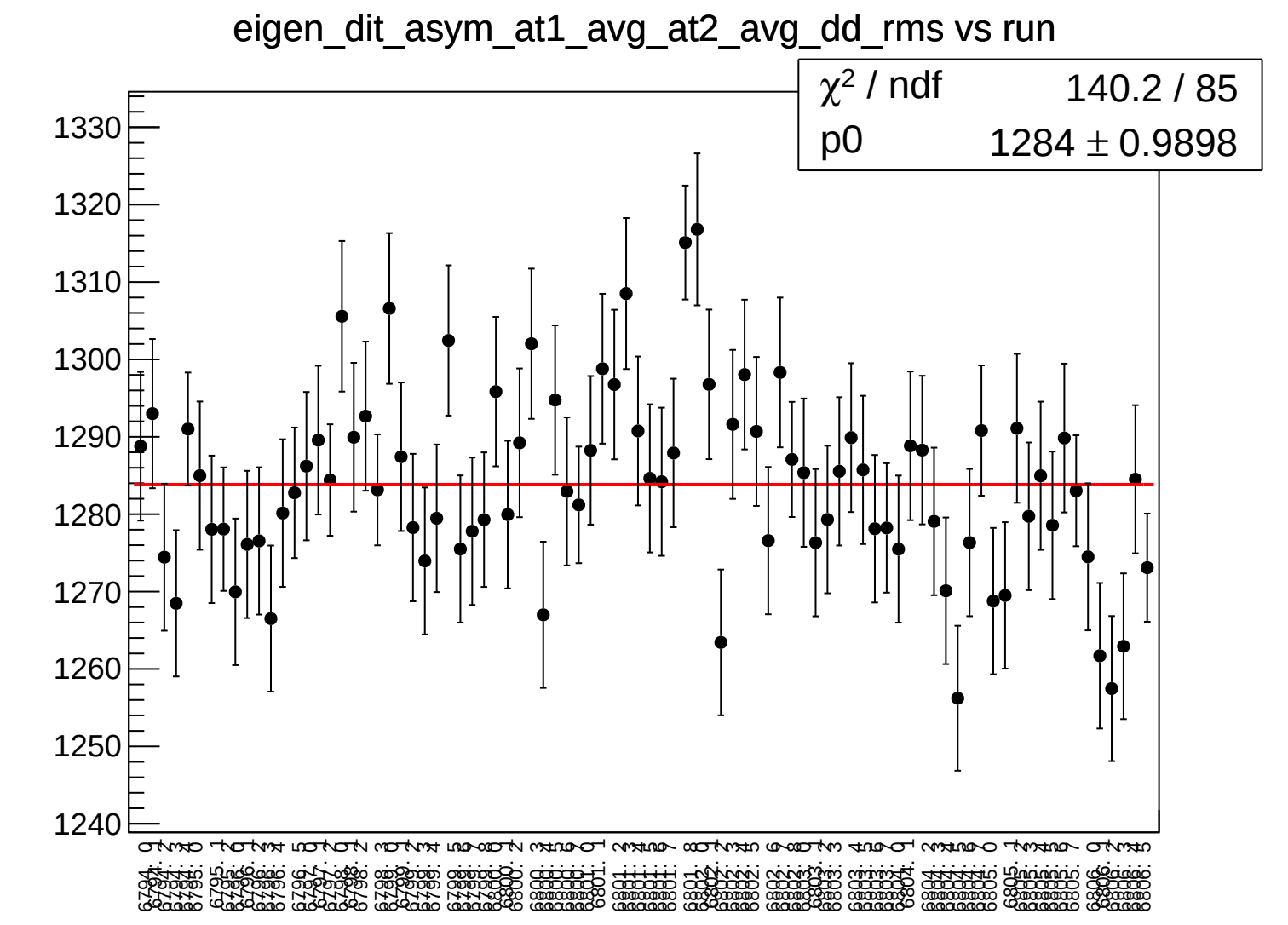

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

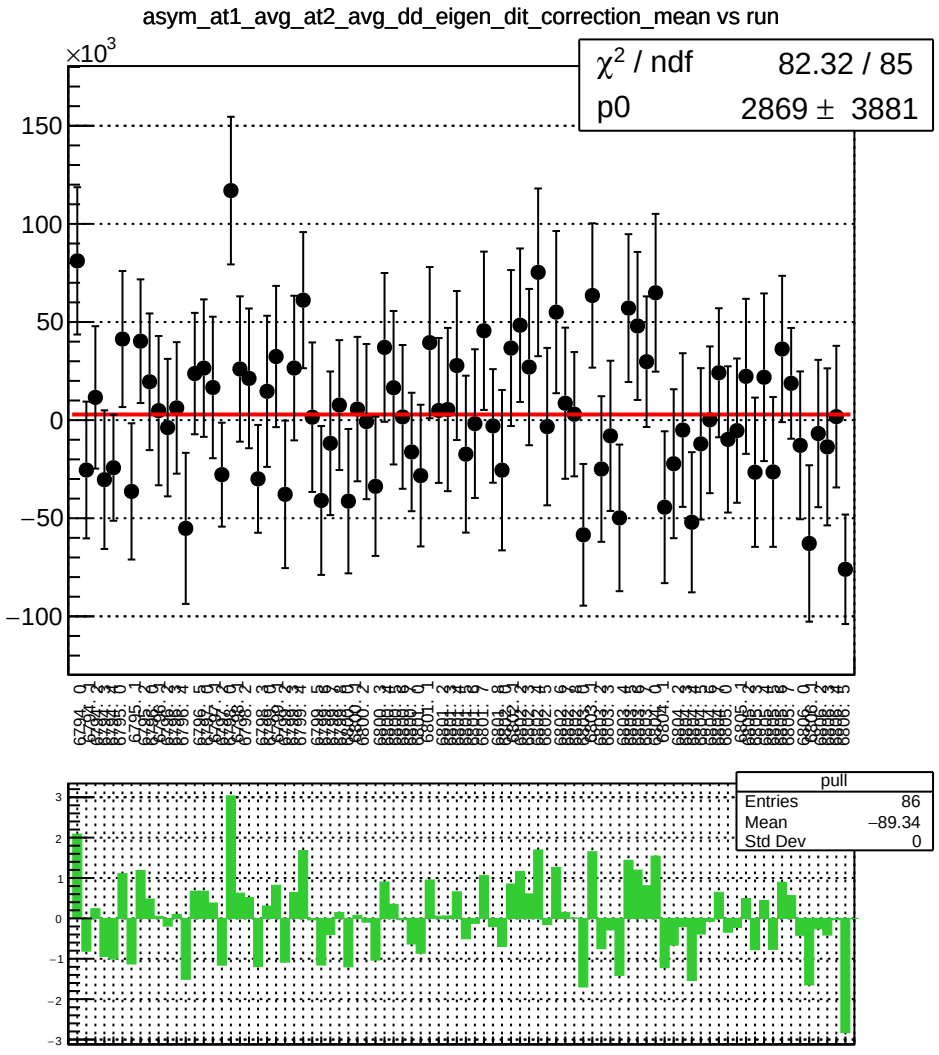

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

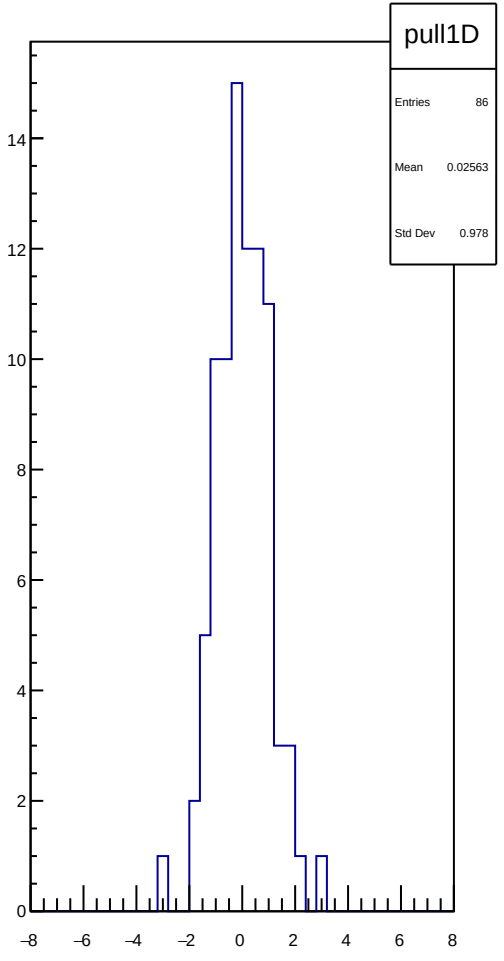

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

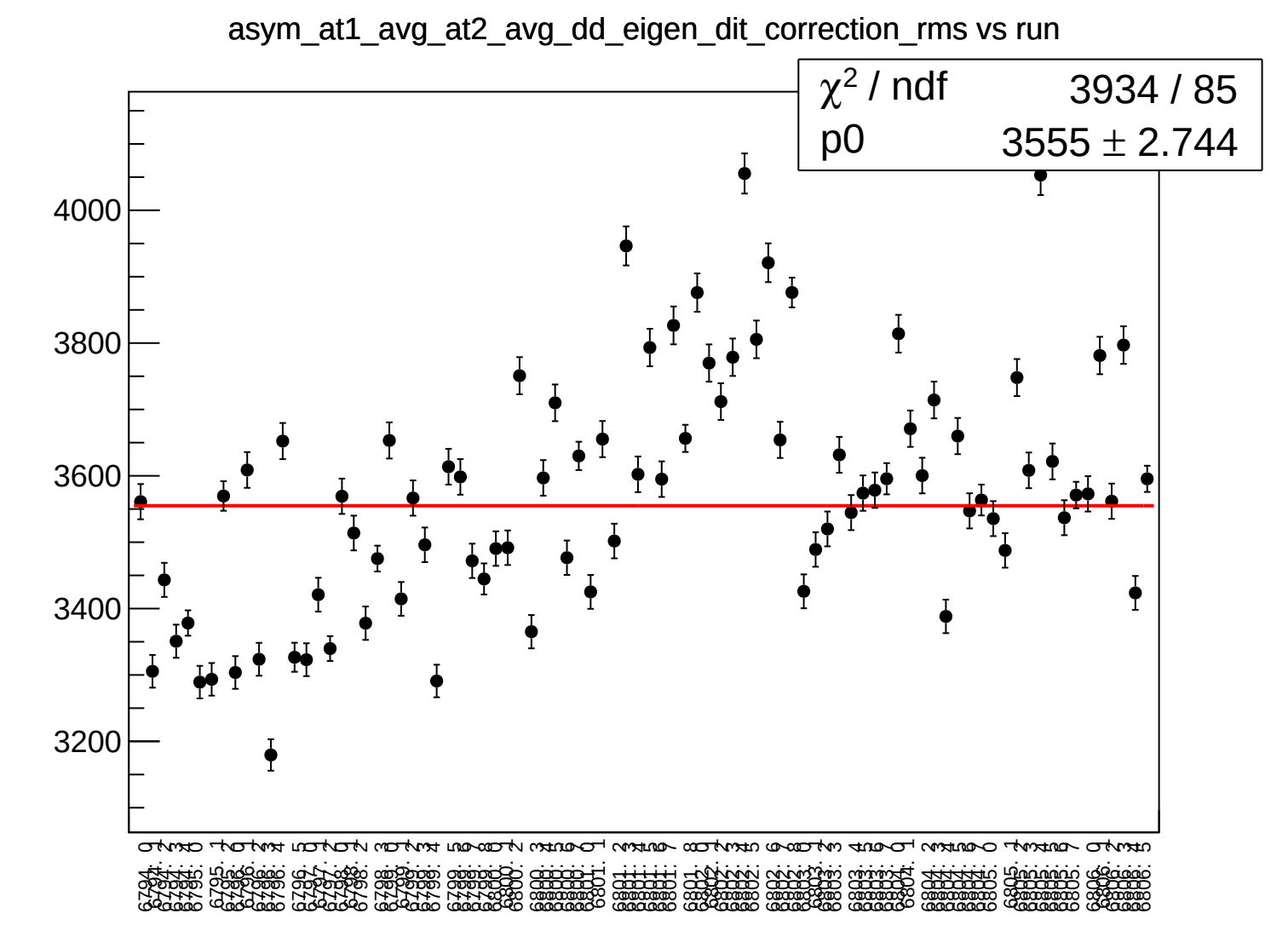

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

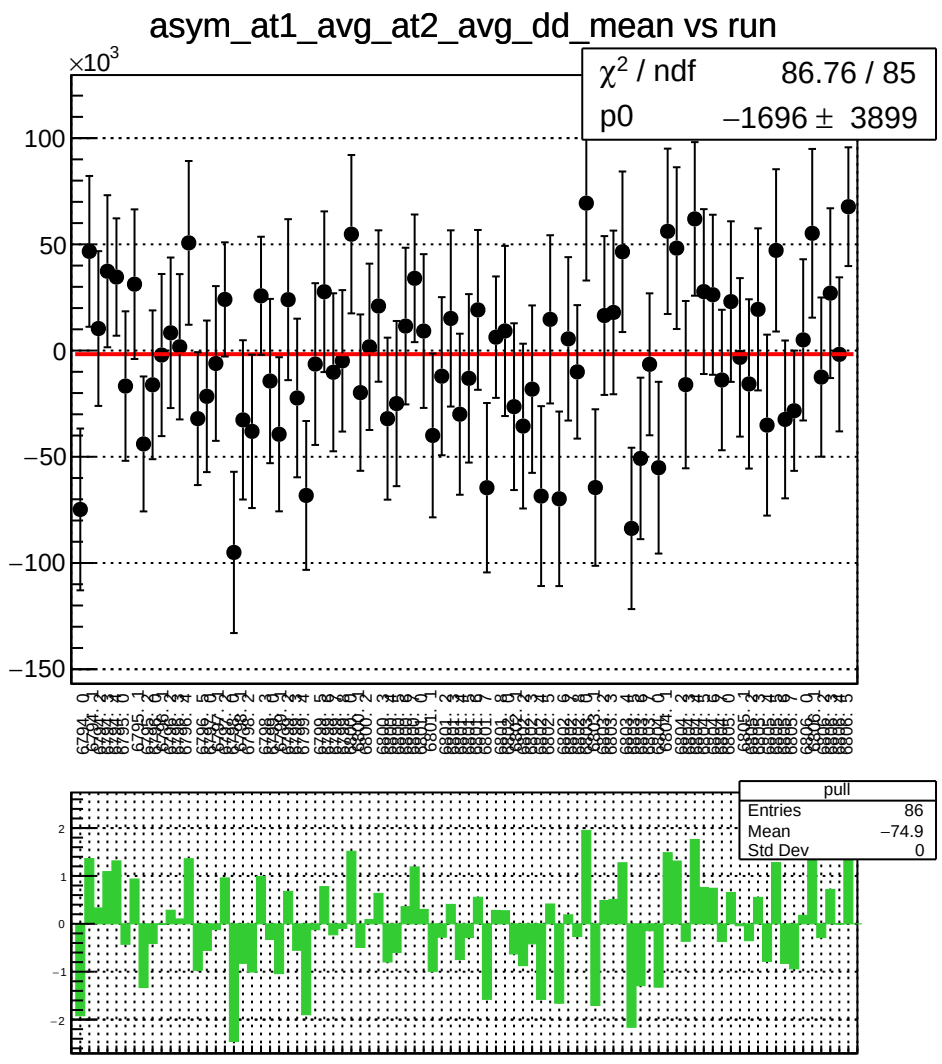

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

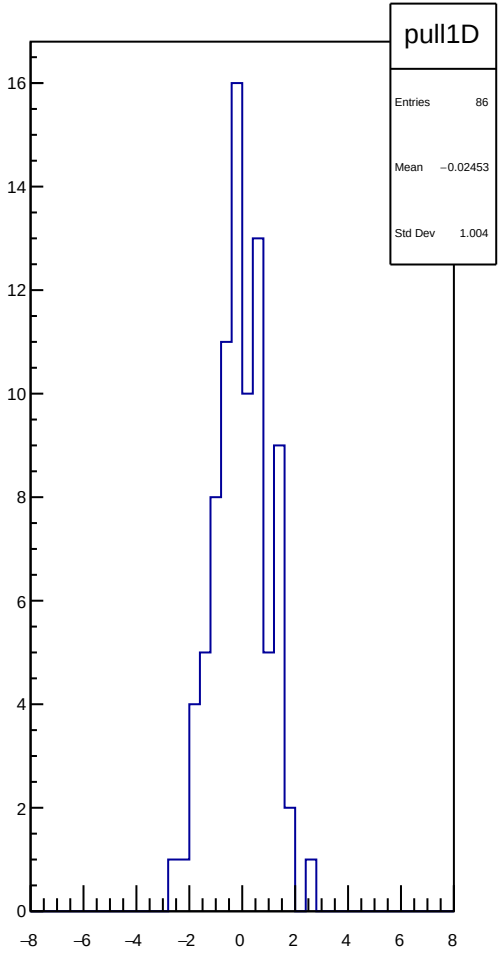

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

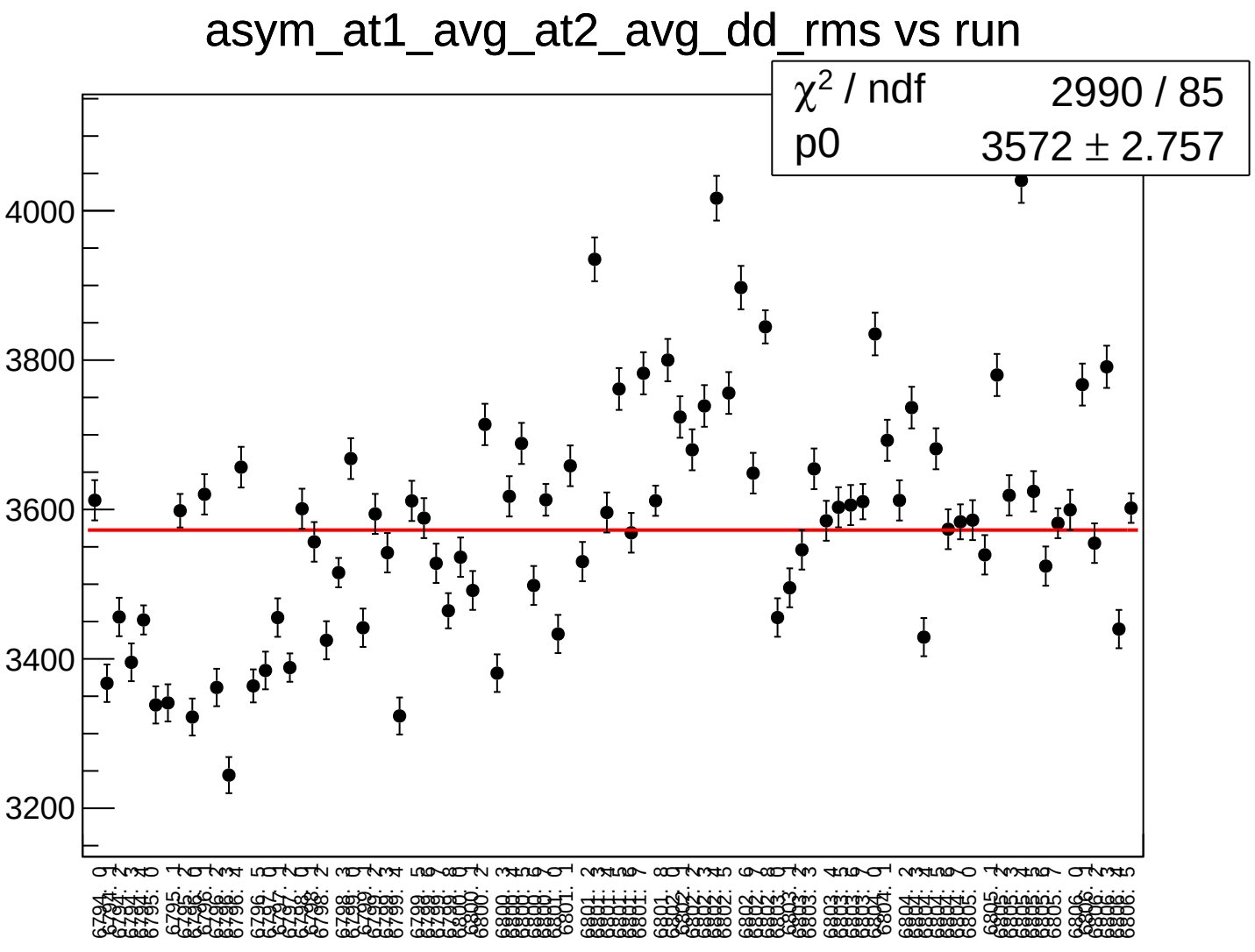

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

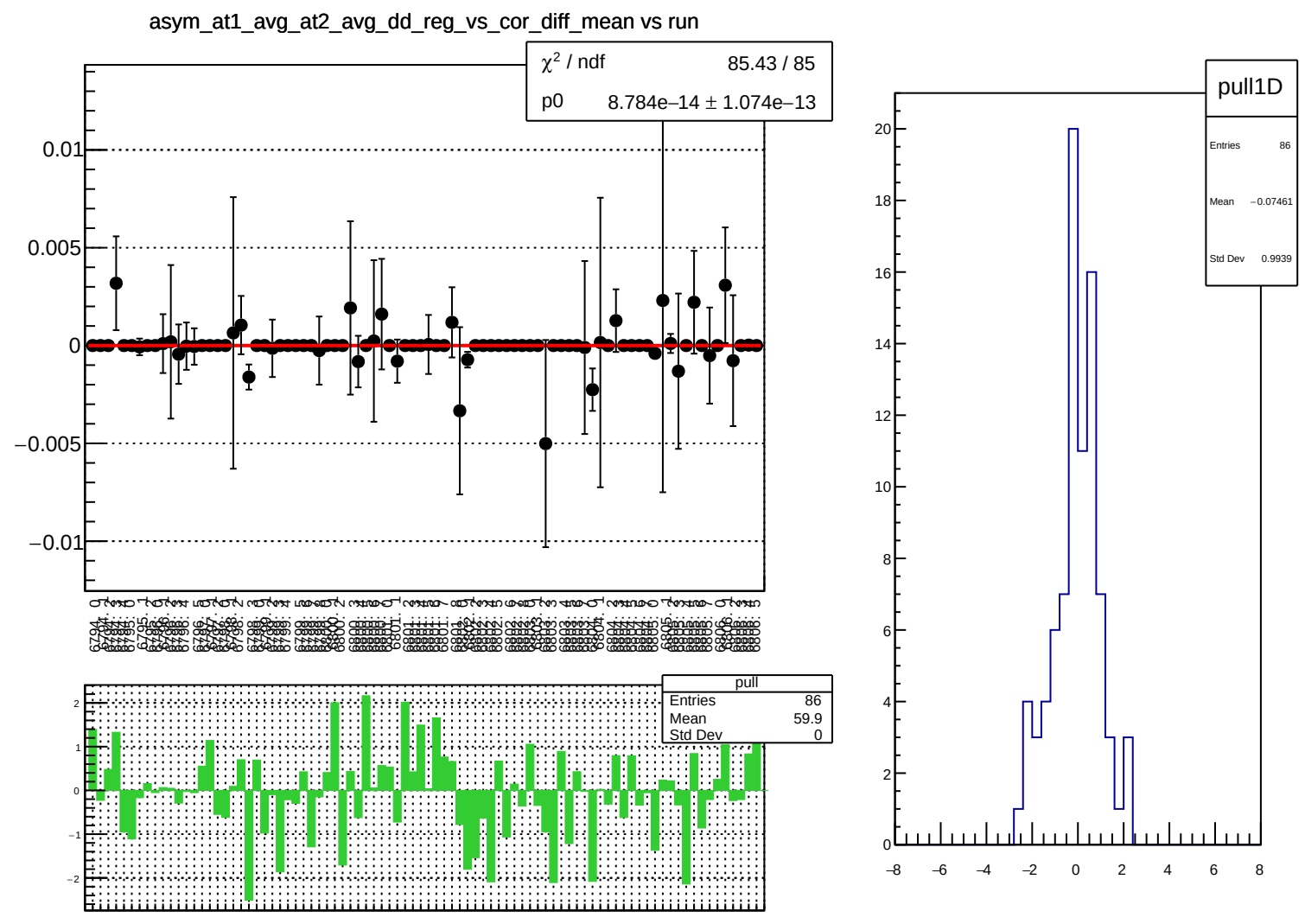

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

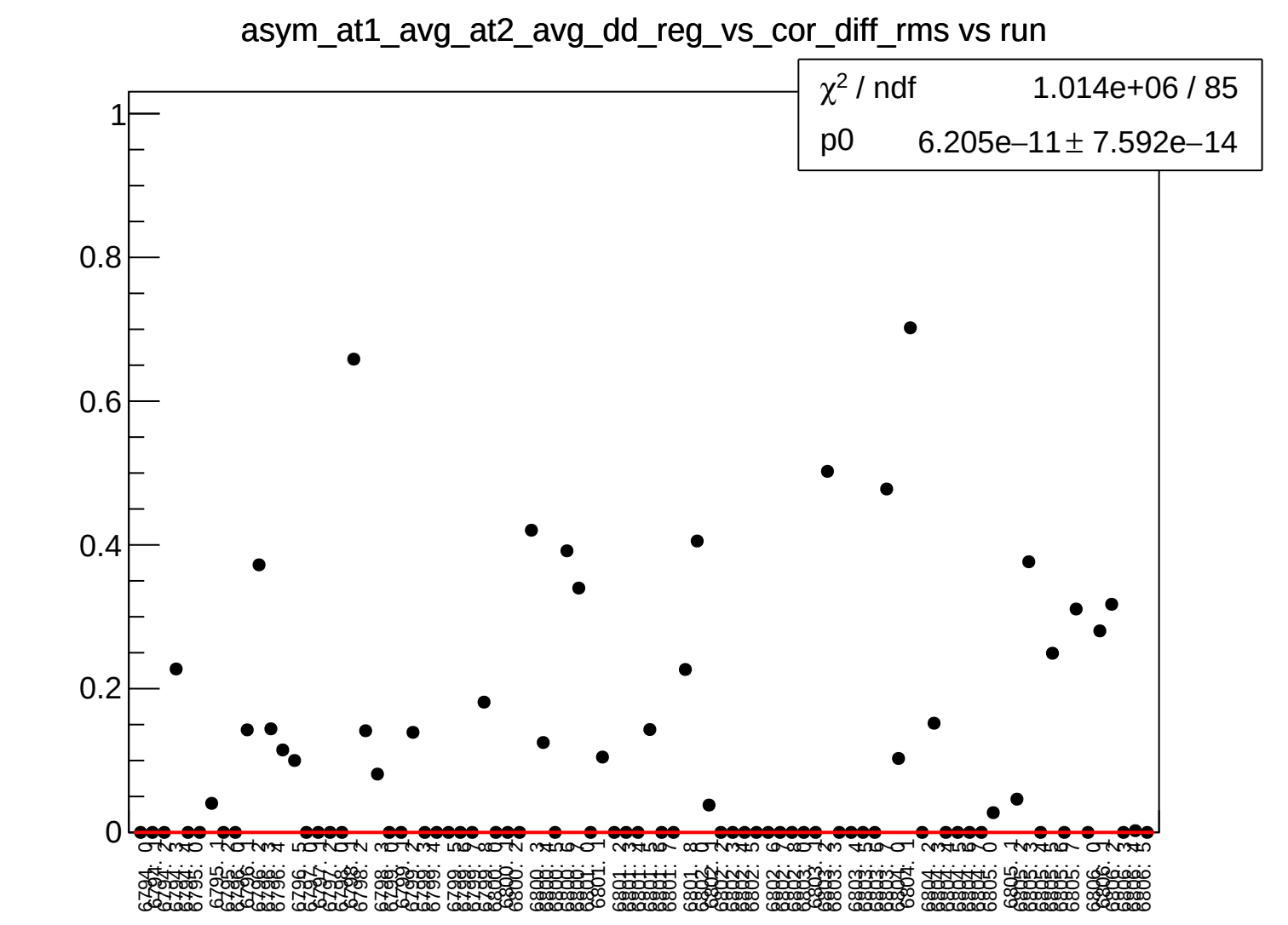

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

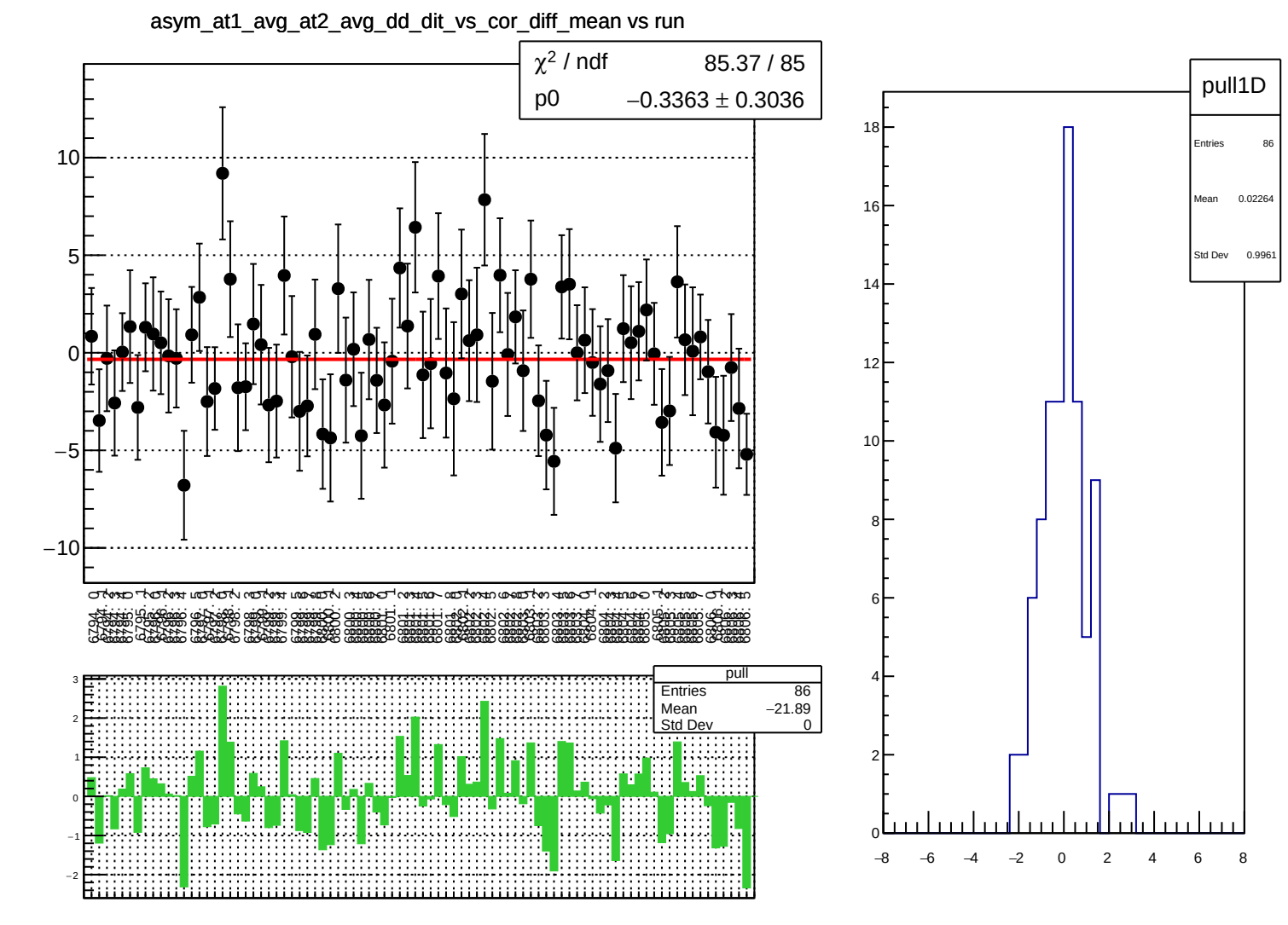

asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 86.76 / 85
p0 −1696 ± 3899
×10³
pull
Entries 86
Mean −74.9
Std Dev 0

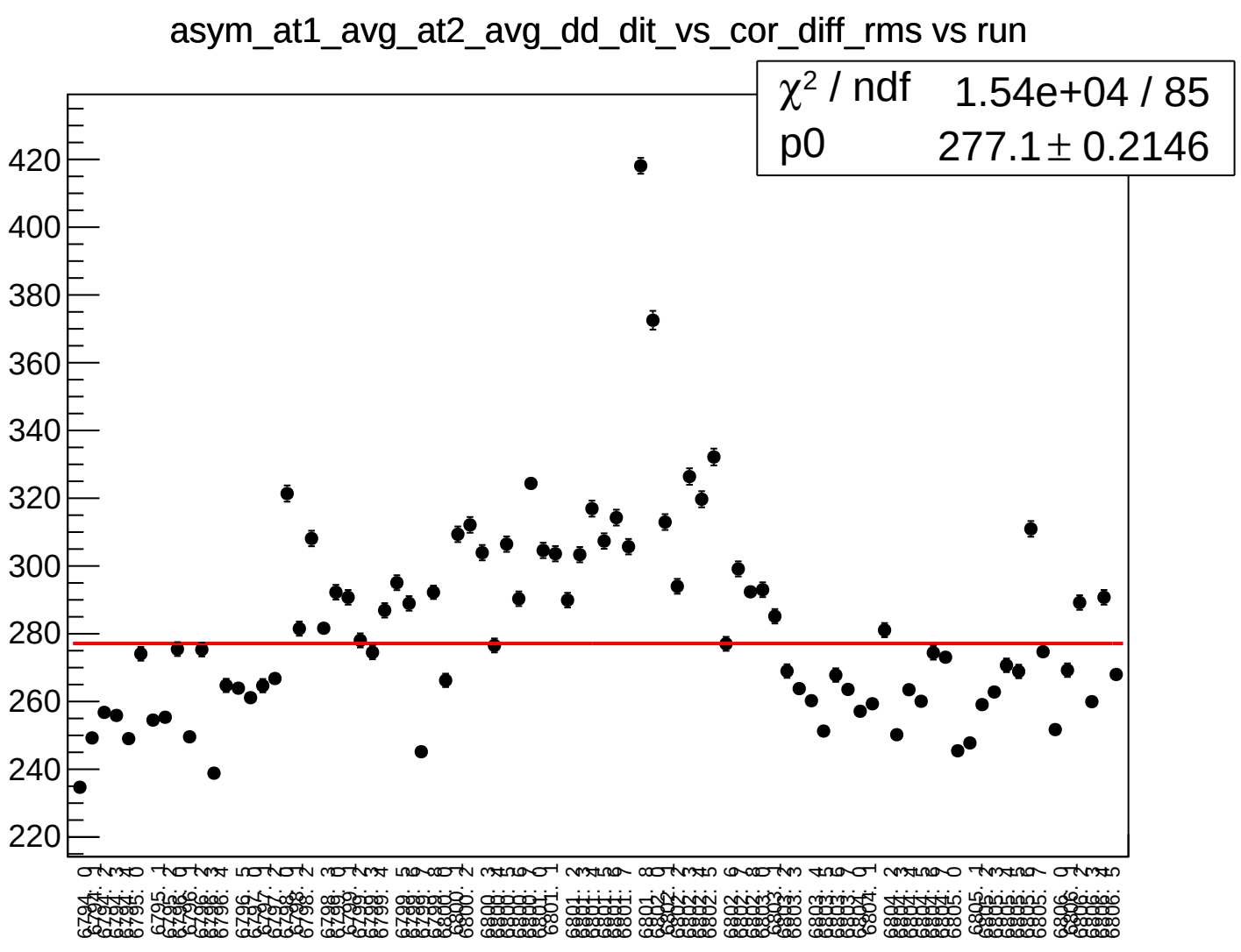

pull1D
Entries 86
Mean −0.02453
Std Dev 1.004

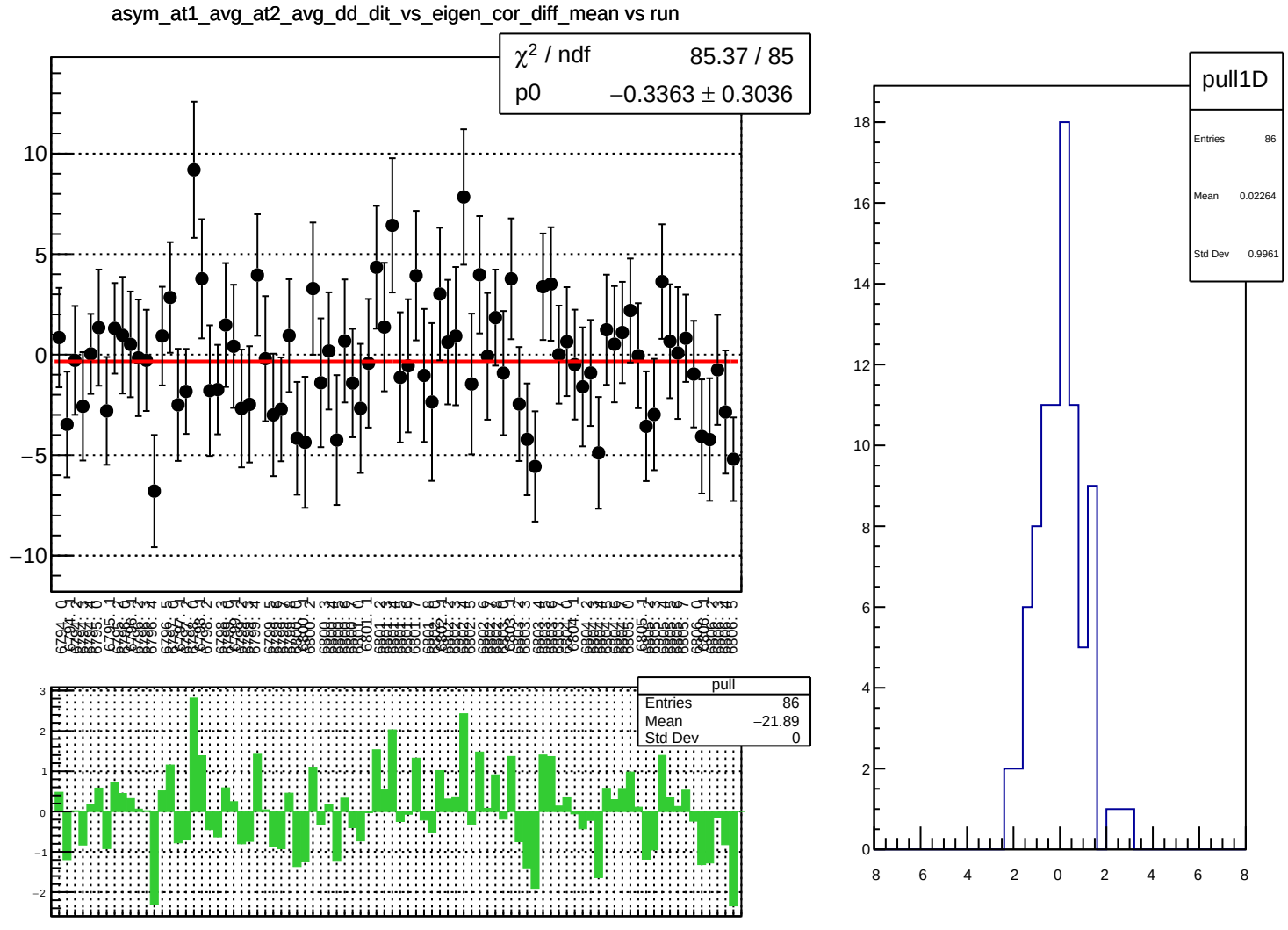

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 2990 / 85
p0 3572 ± 2.757
4000
3800
3600
3400
3200

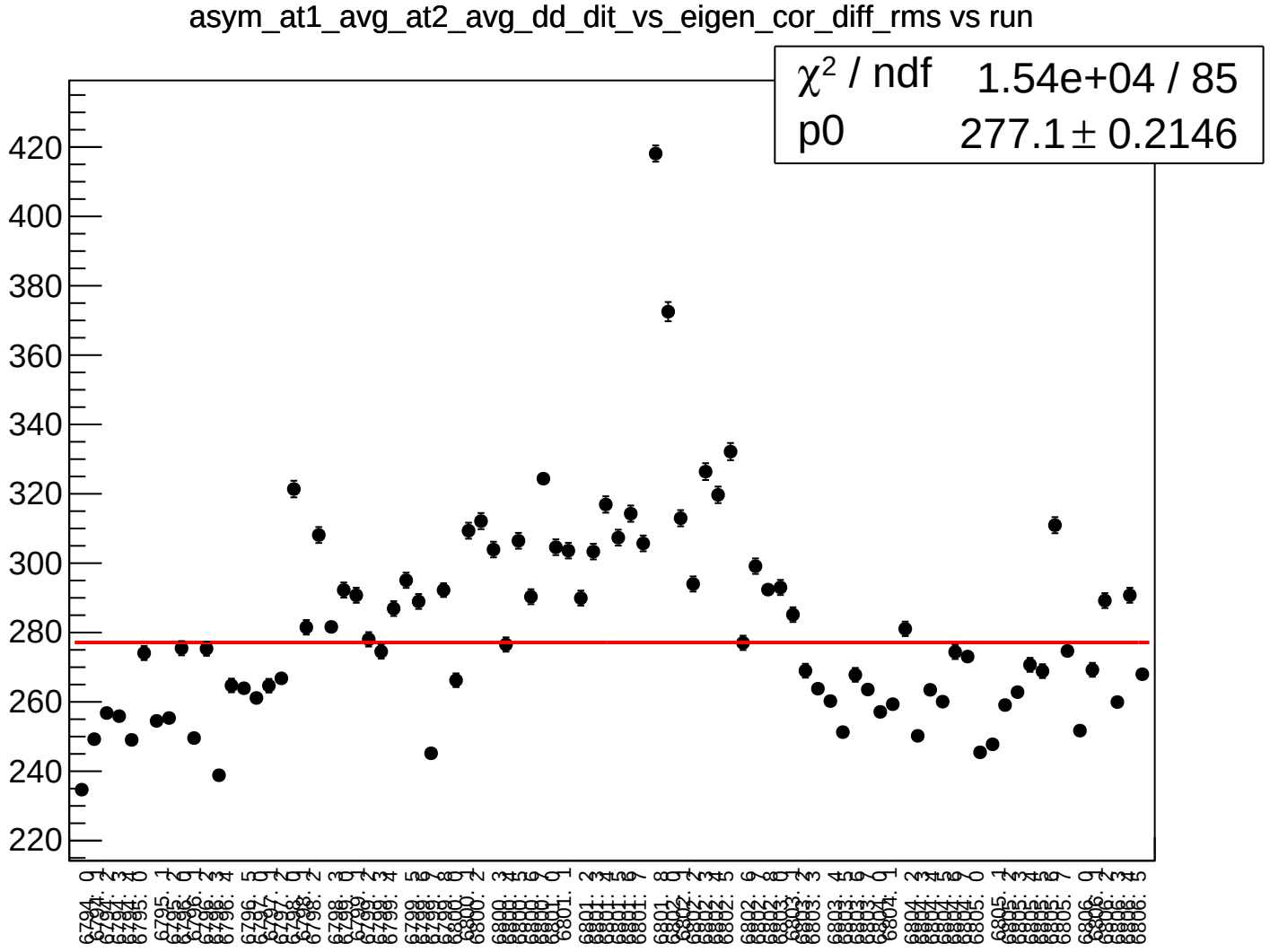

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 85
p0 8.784e−14 ± 1.074e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 59.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.07461
Std Dev 0.9939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

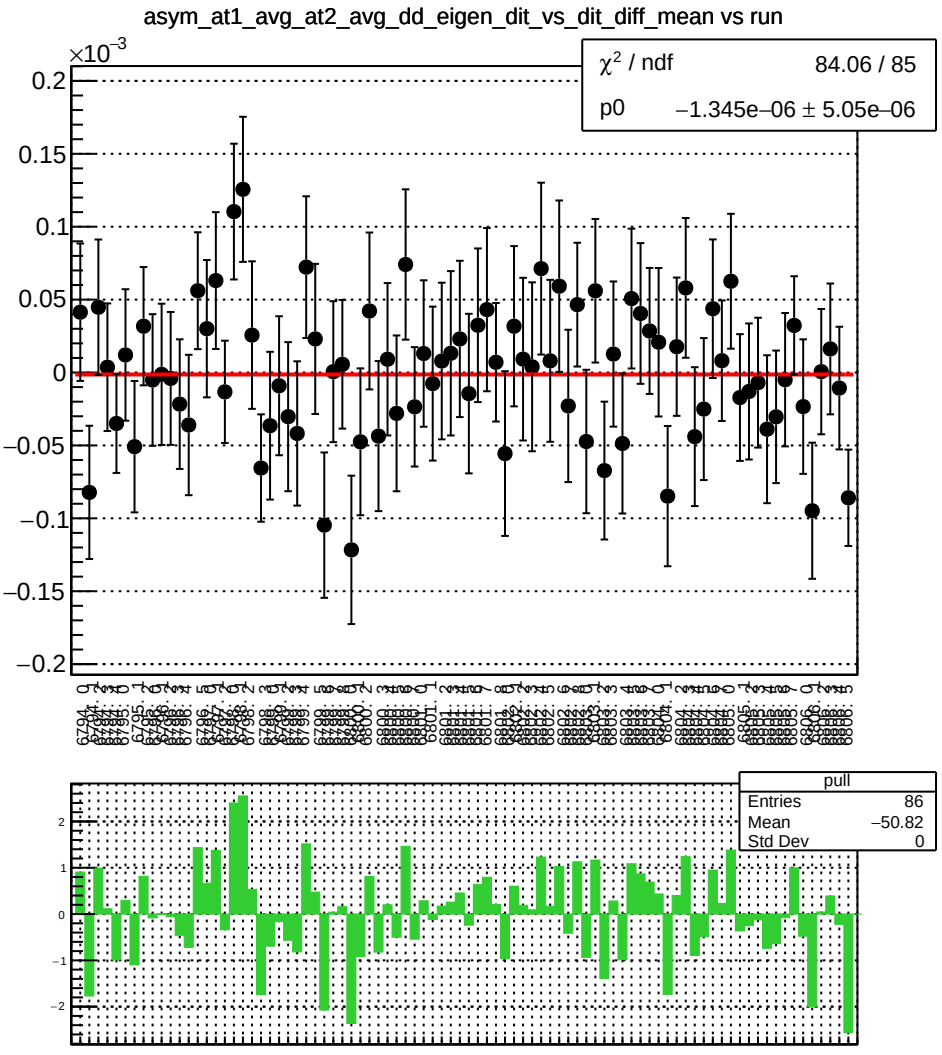

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 6.205e−11 ± 7.592e−14
1
0.8
0.6
0.4
0.2
0

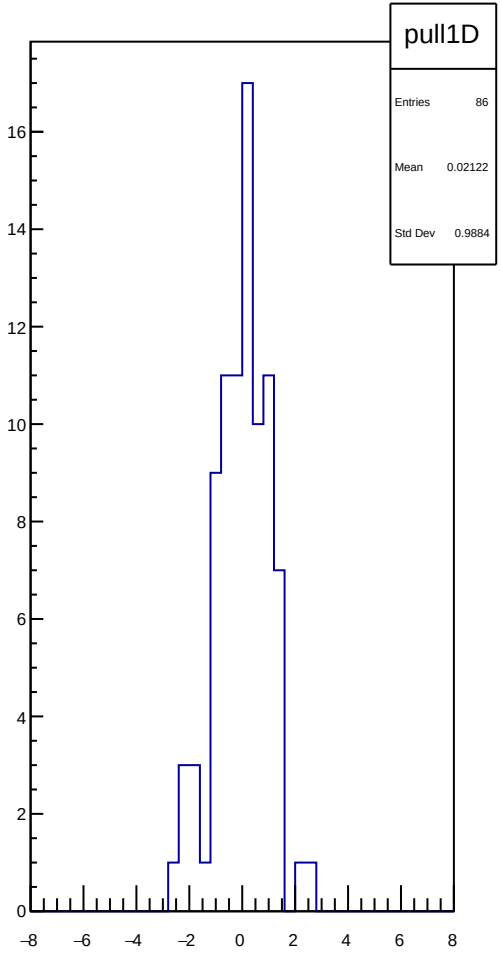

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

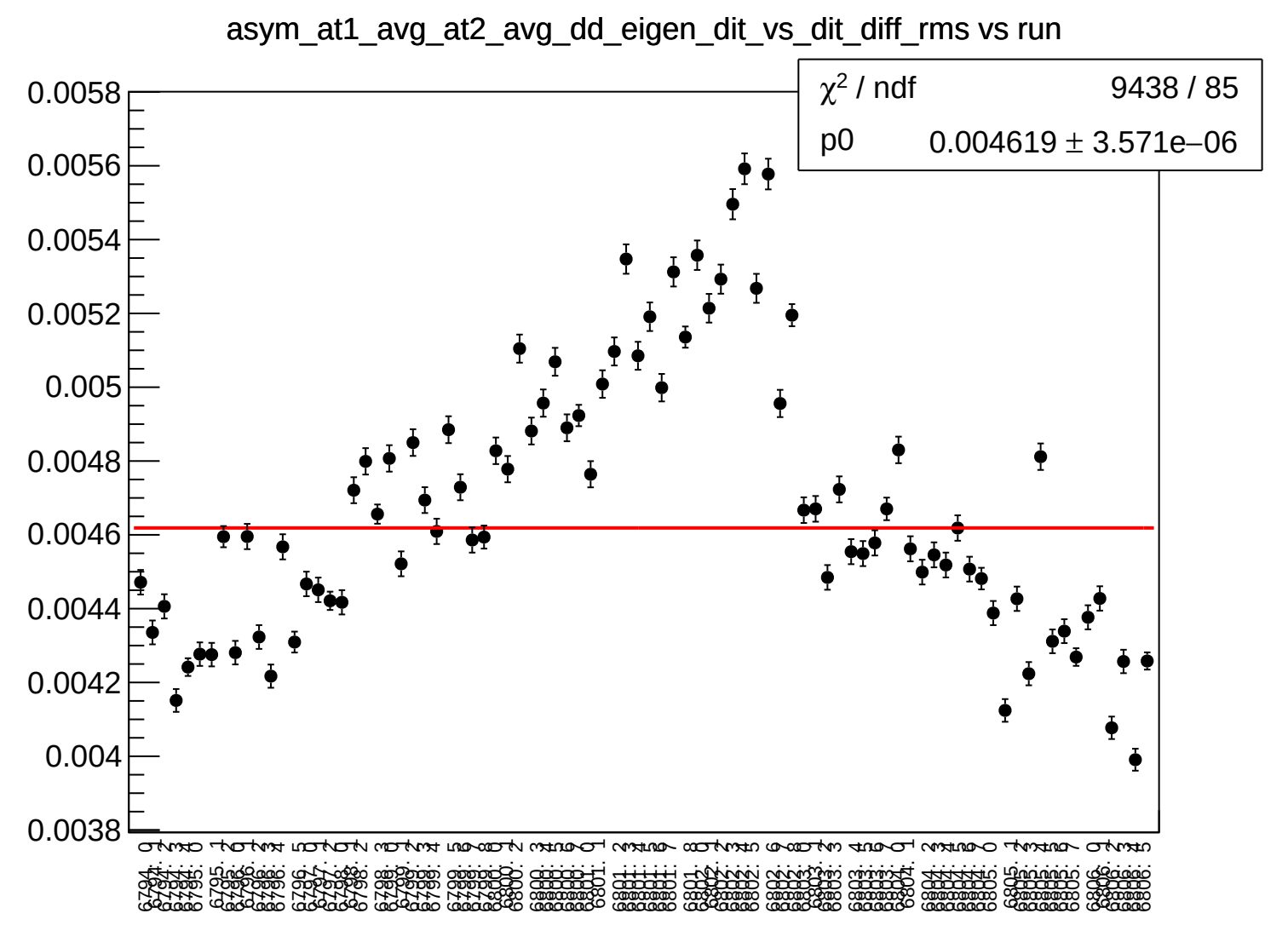

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

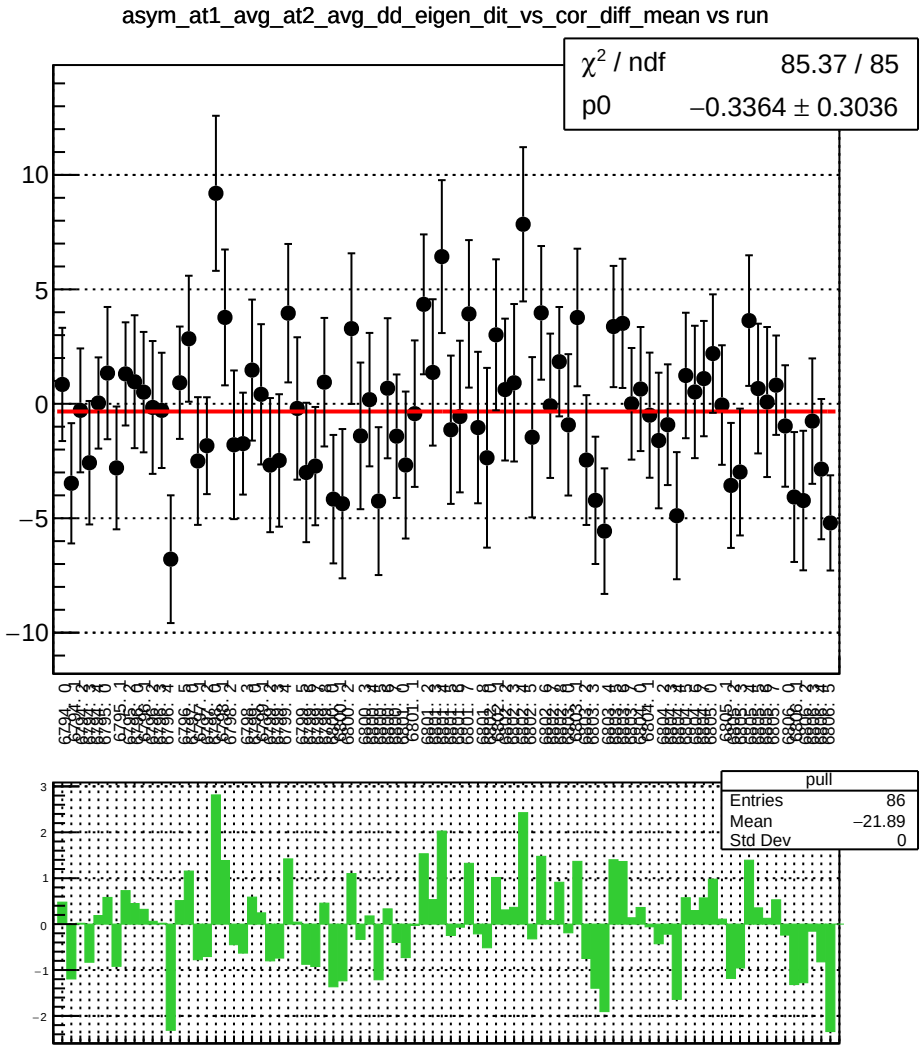

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

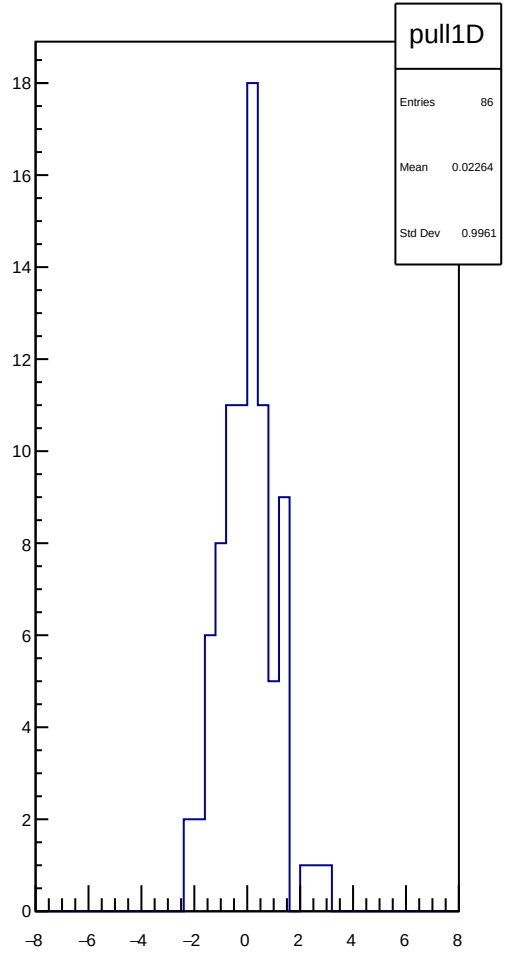

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

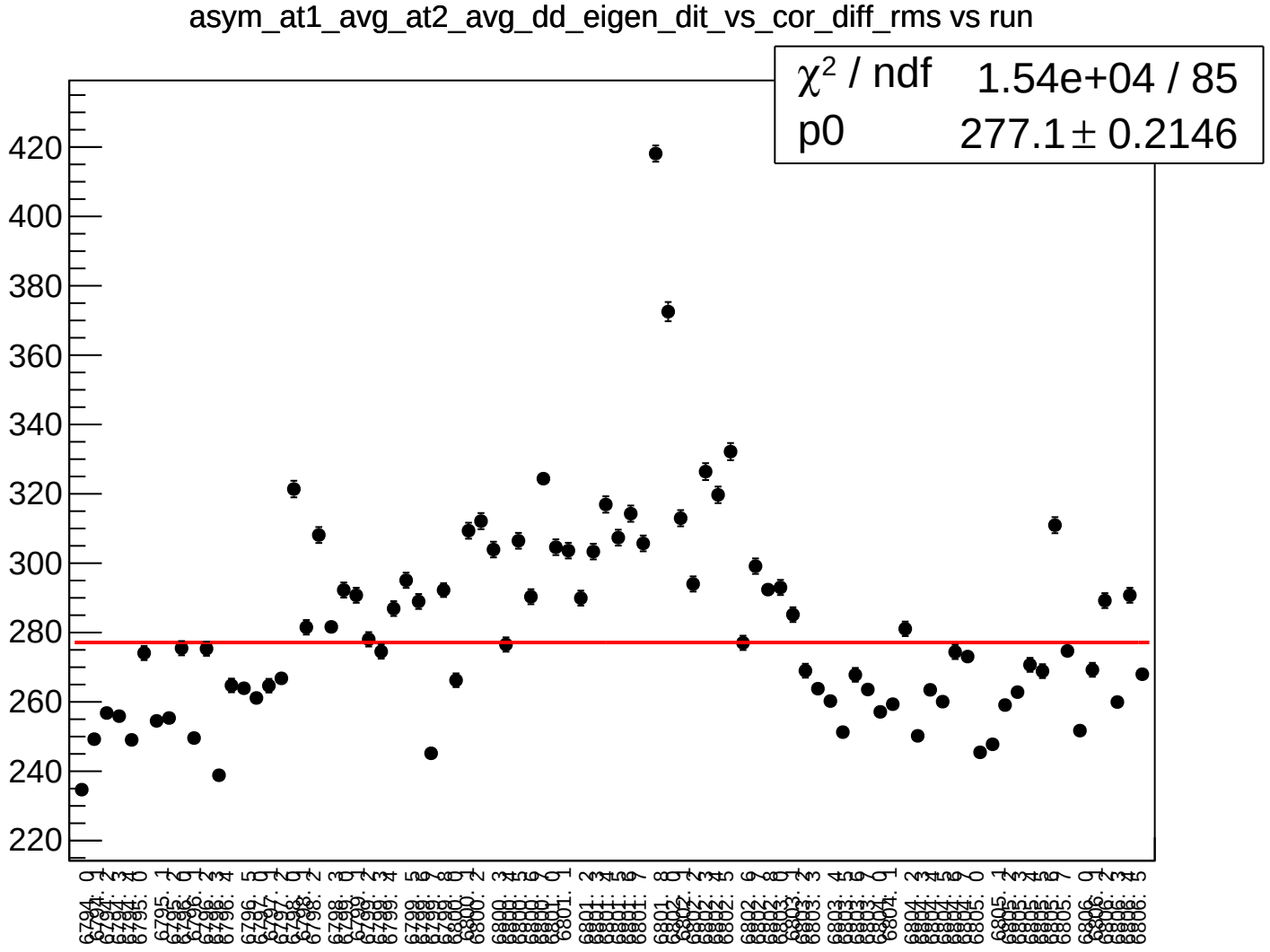

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.06 / 85
p0 −1.345e−06 ± 5.05e−06
pull
Entries 86
Mean −50.82
Std Dev 0

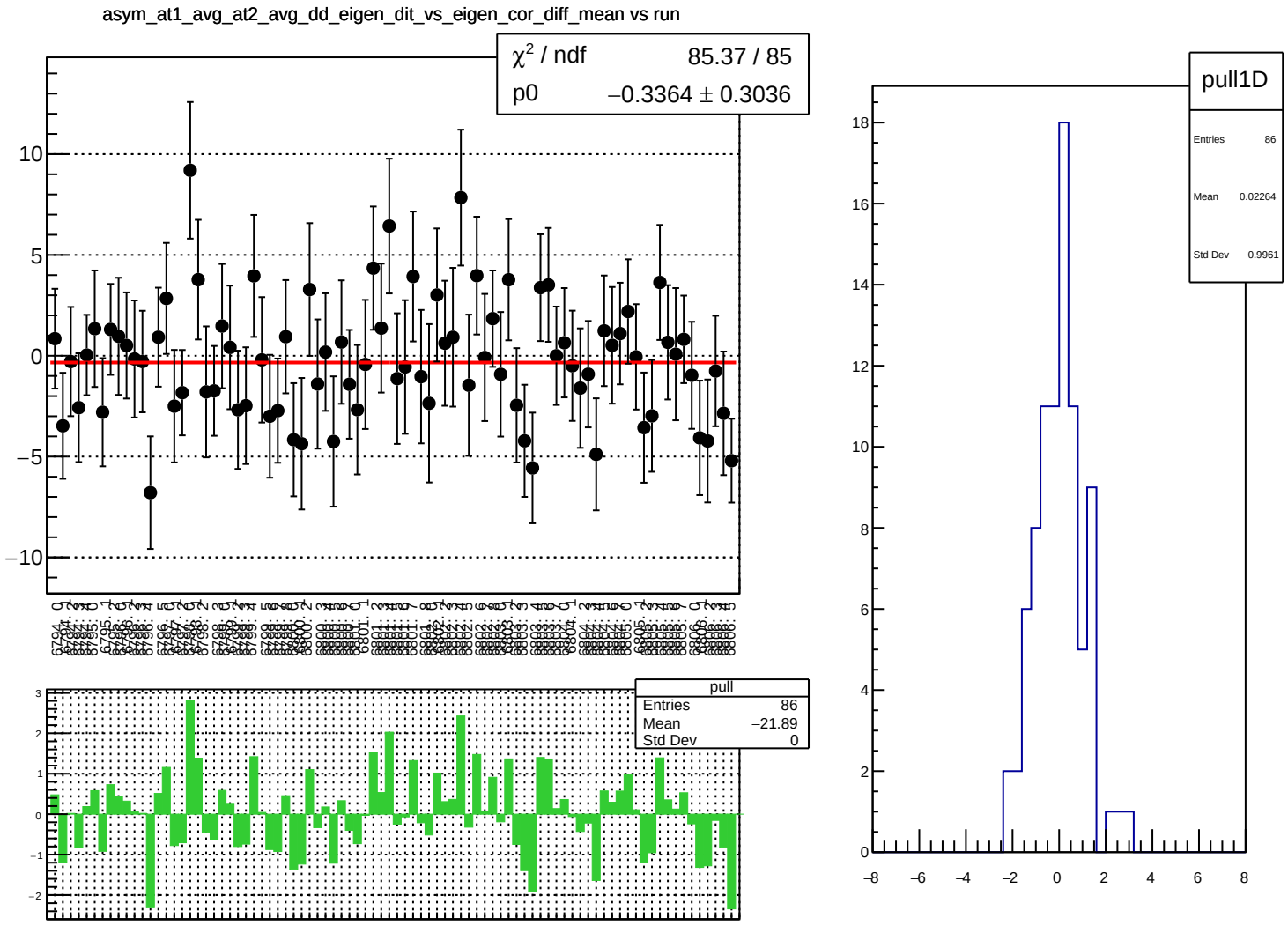

pull1D
Entries 86
Mean 0.02122
Std Dev 0.9884

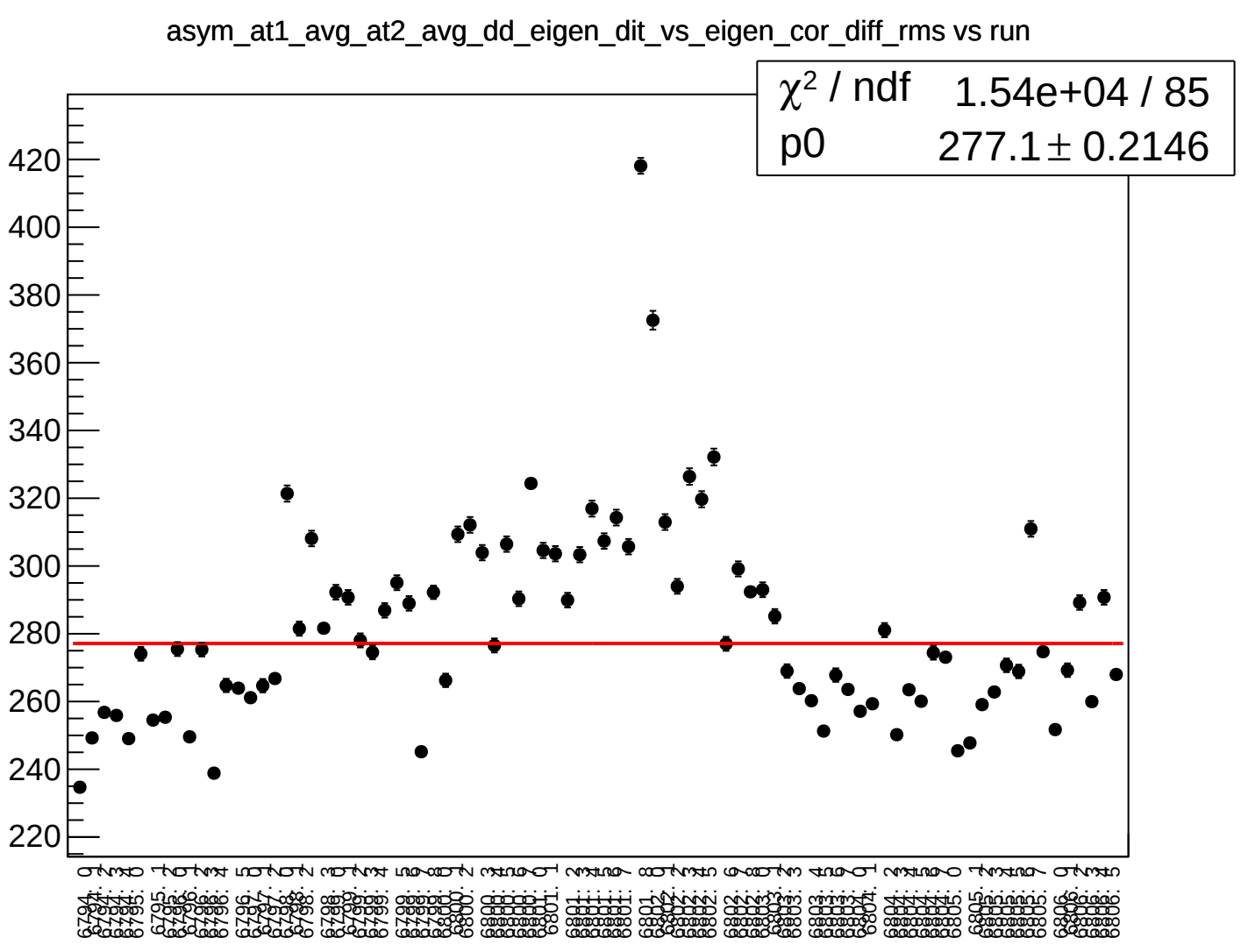

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9438 / 85
p0 0.004619 ± 3.571e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

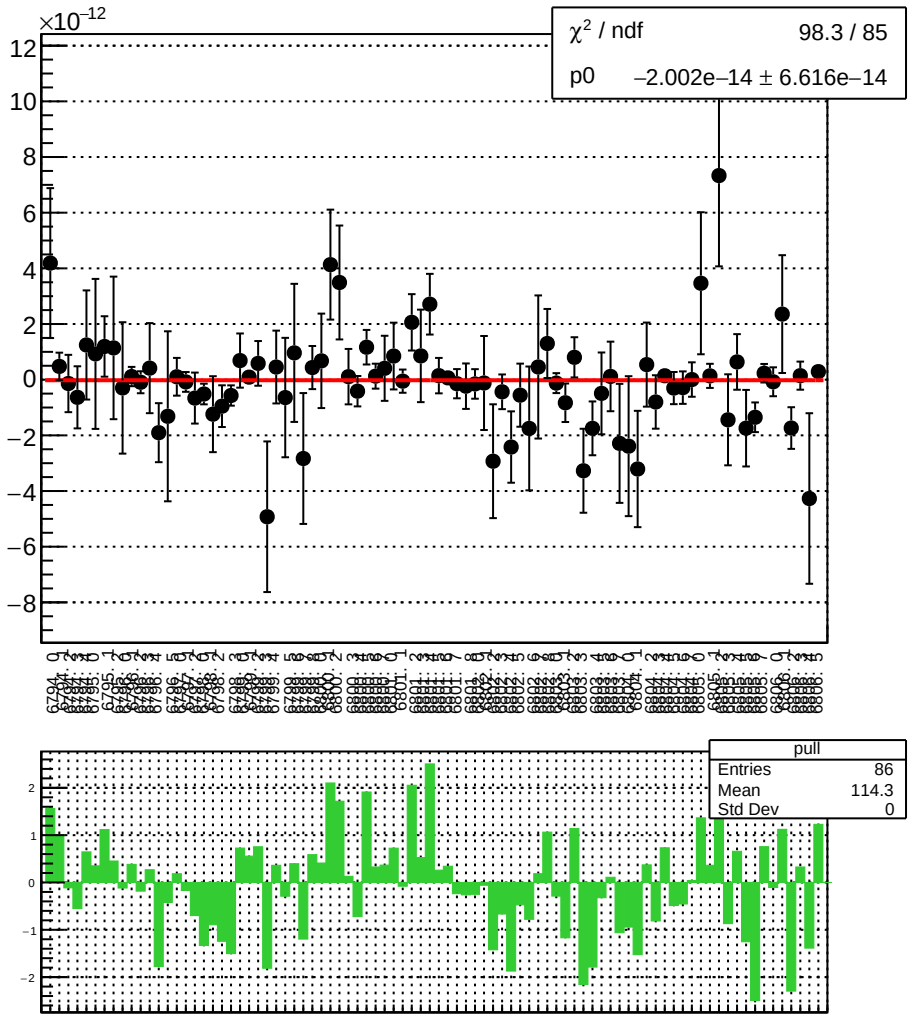

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0

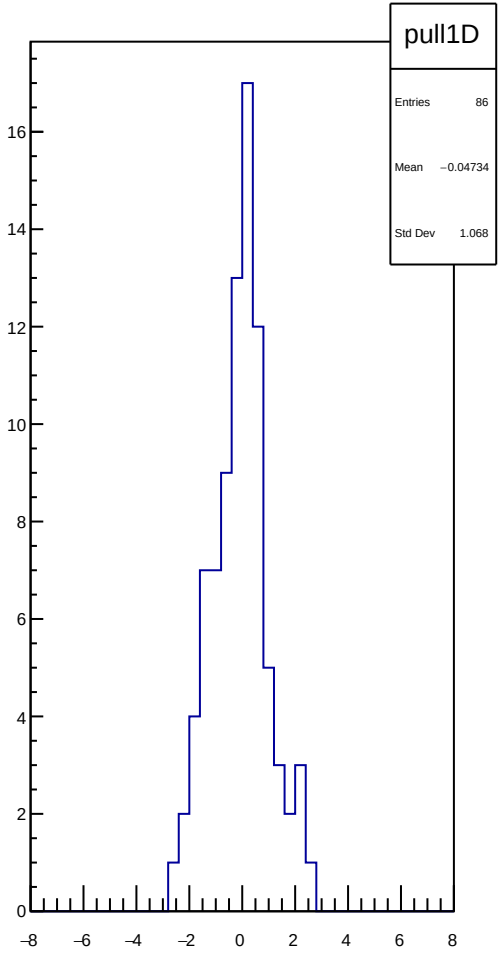

pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

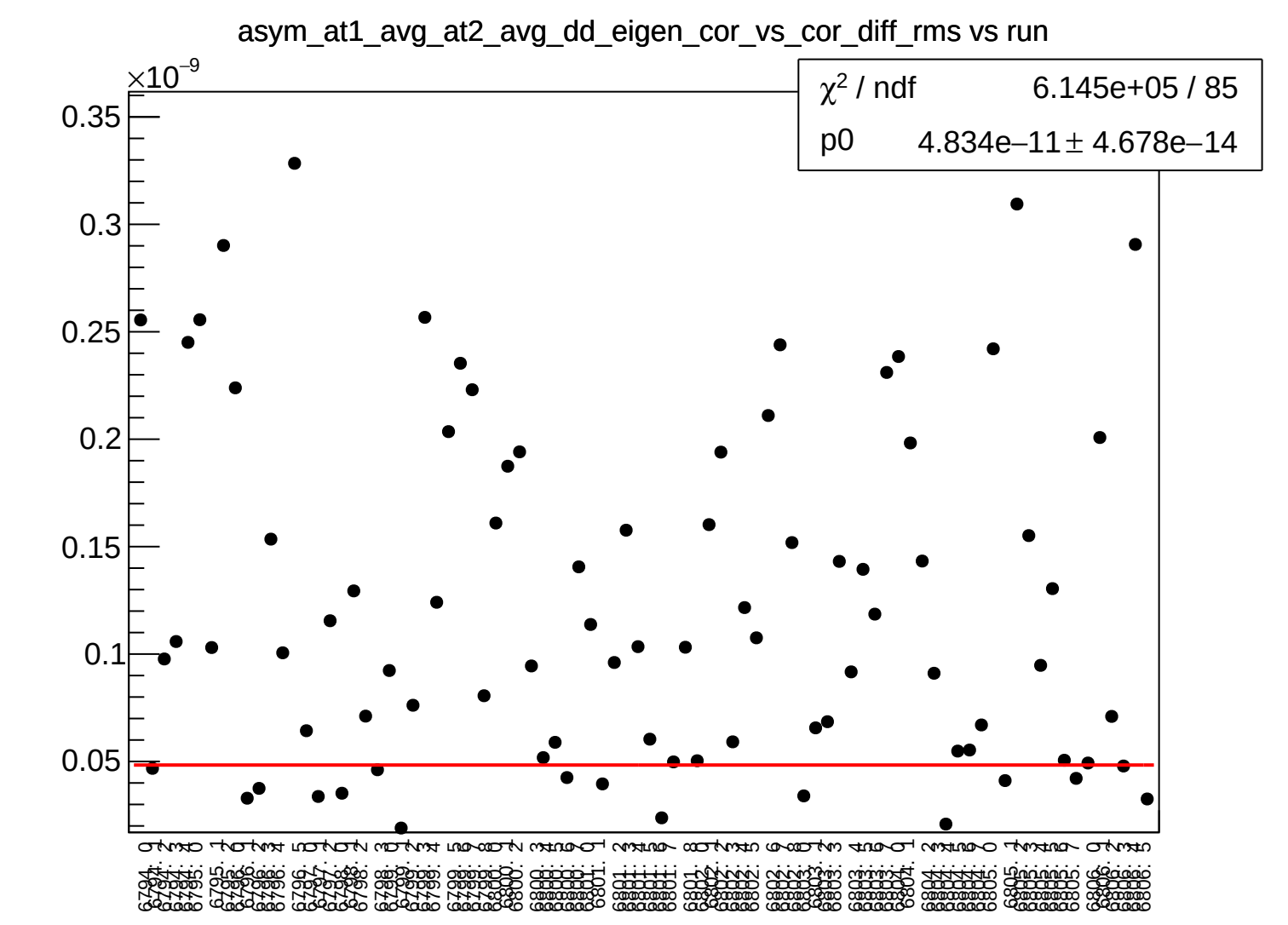

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

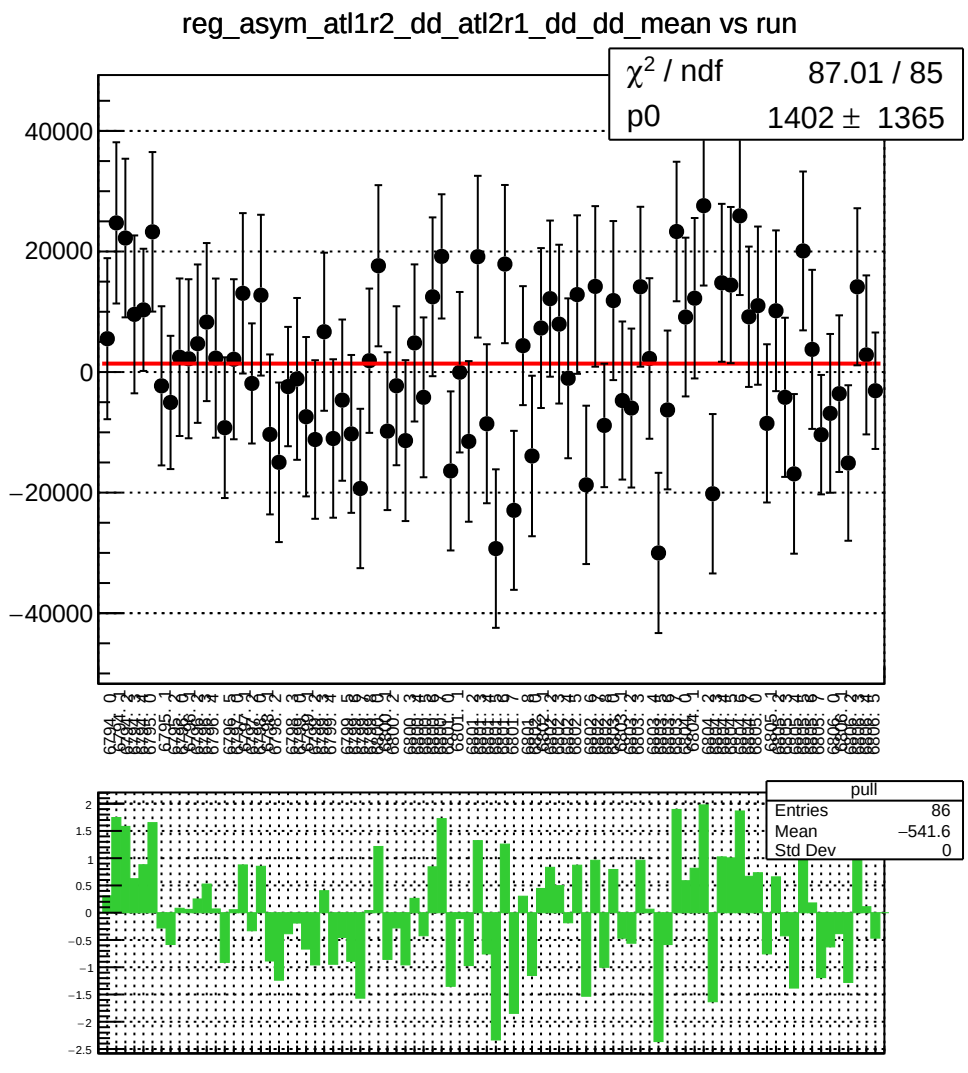

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

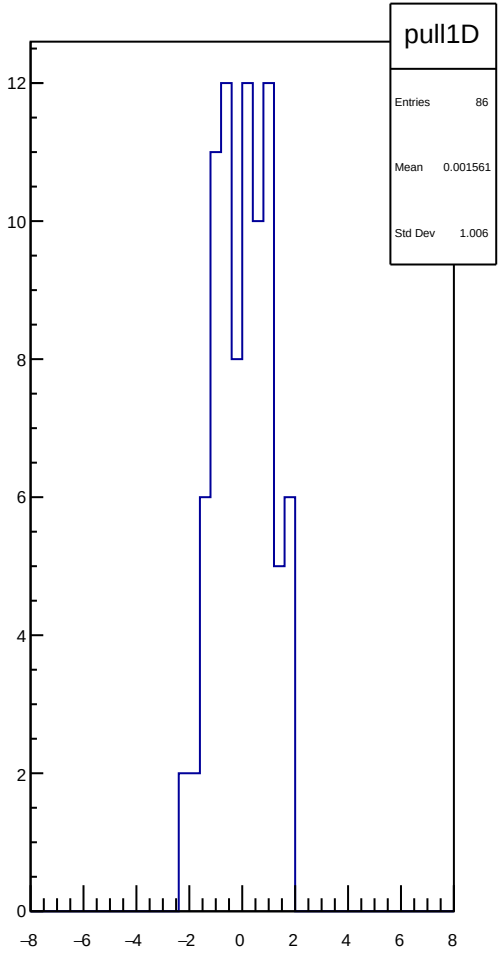

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

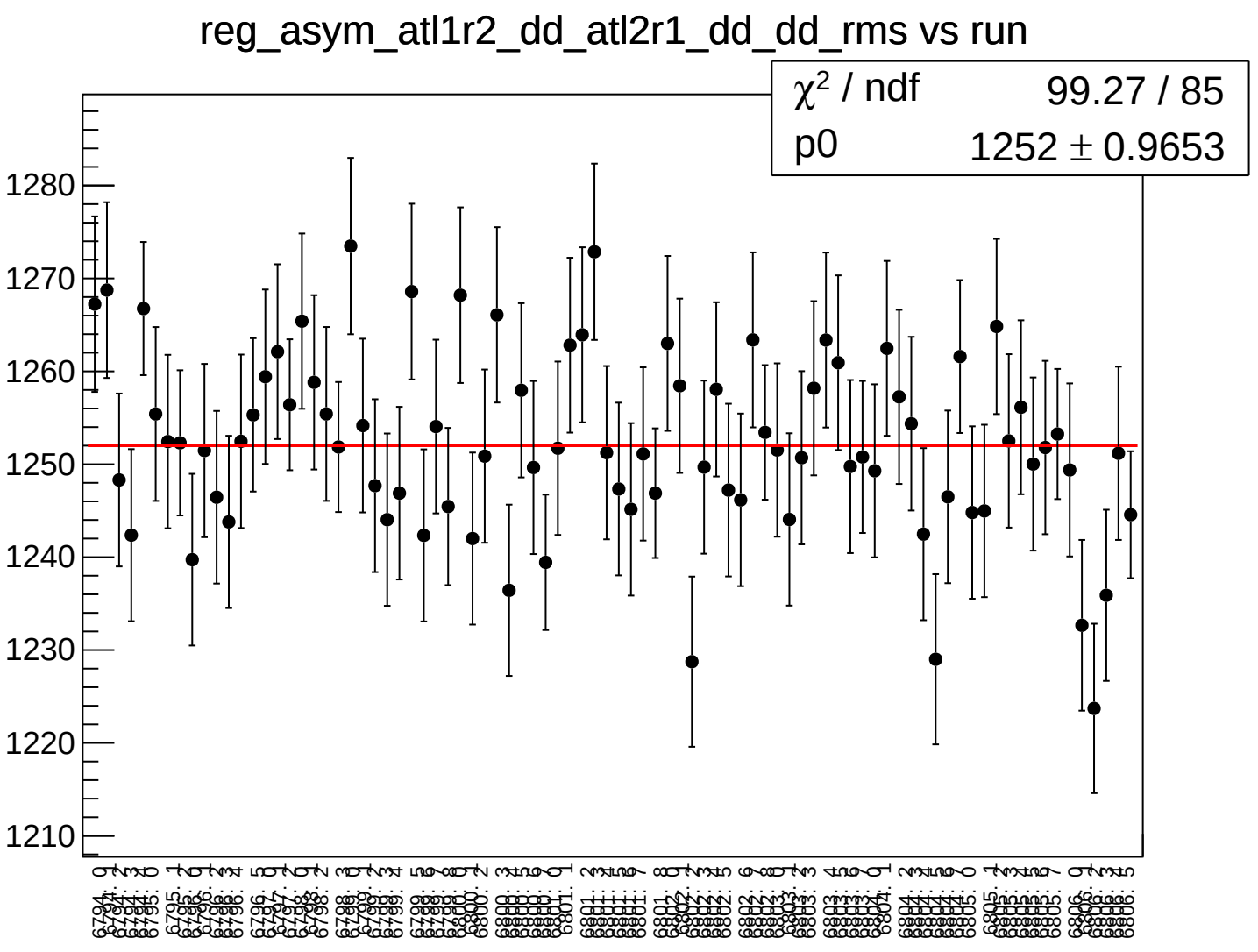

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.3 / 85
p0 −2.002e−14 ± 6.616e−14
pull
Entries 86
Mean 114.3
Std Dev 0

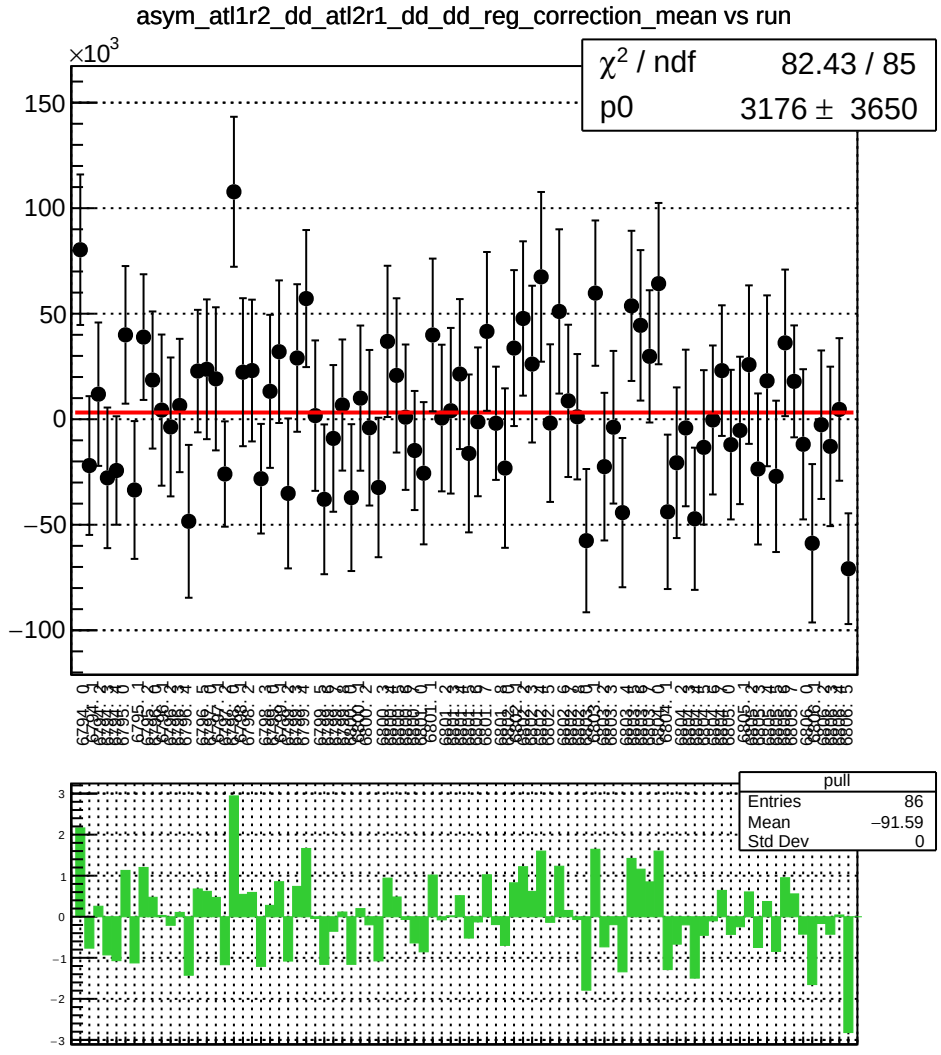

pull1D
Entries 86
Mean −0.04734
Std Dev 1.068

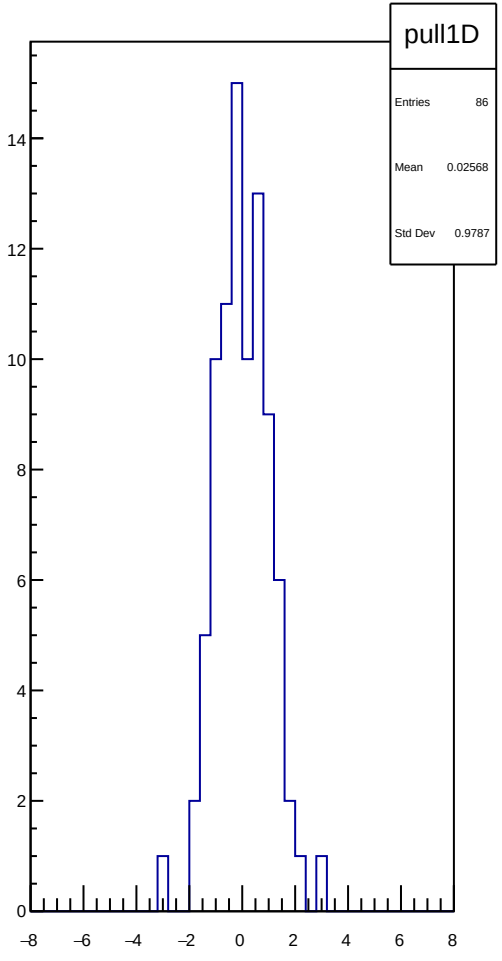

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.145e+05 / 85
p0 4.834e−11 ± 4.678e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

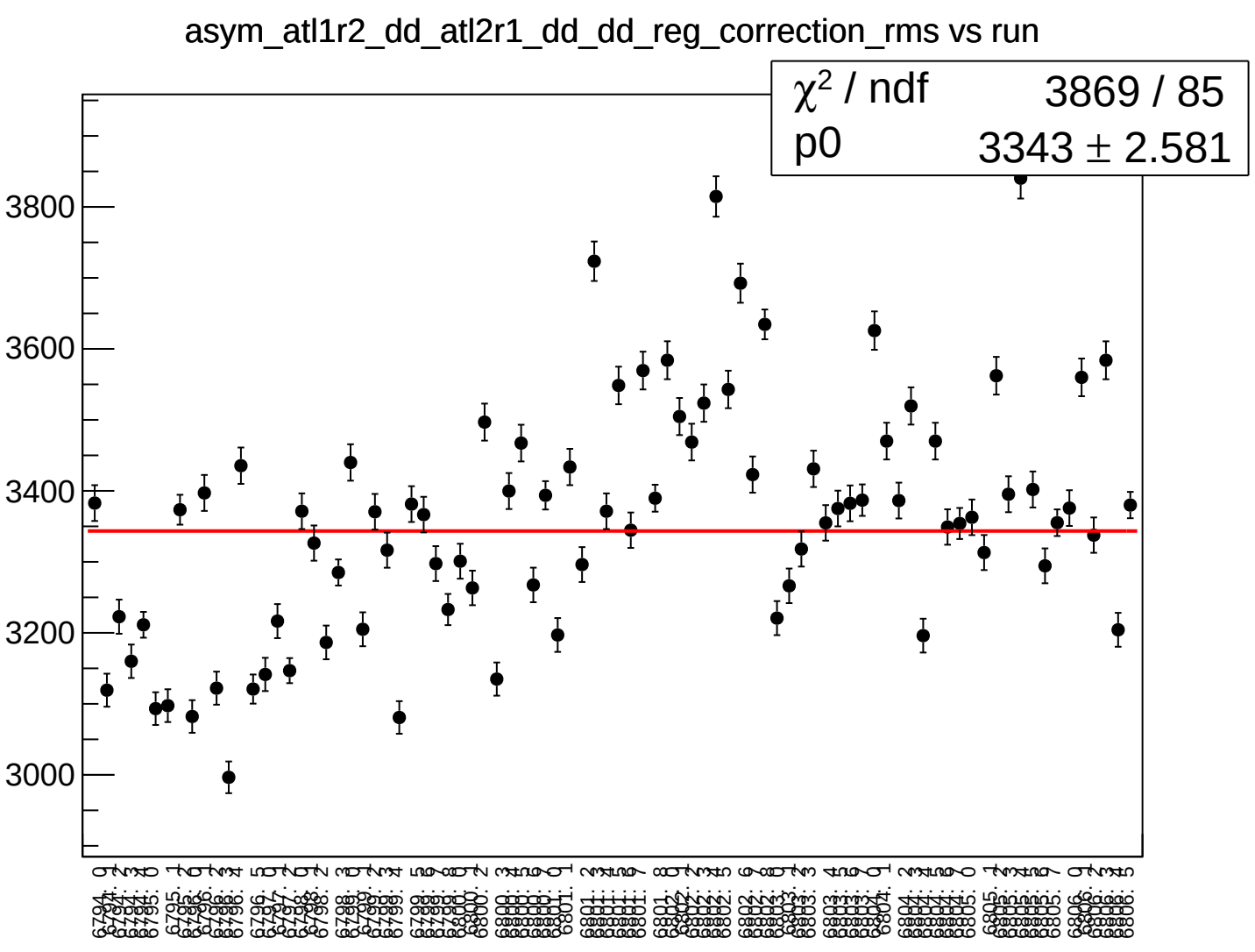

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

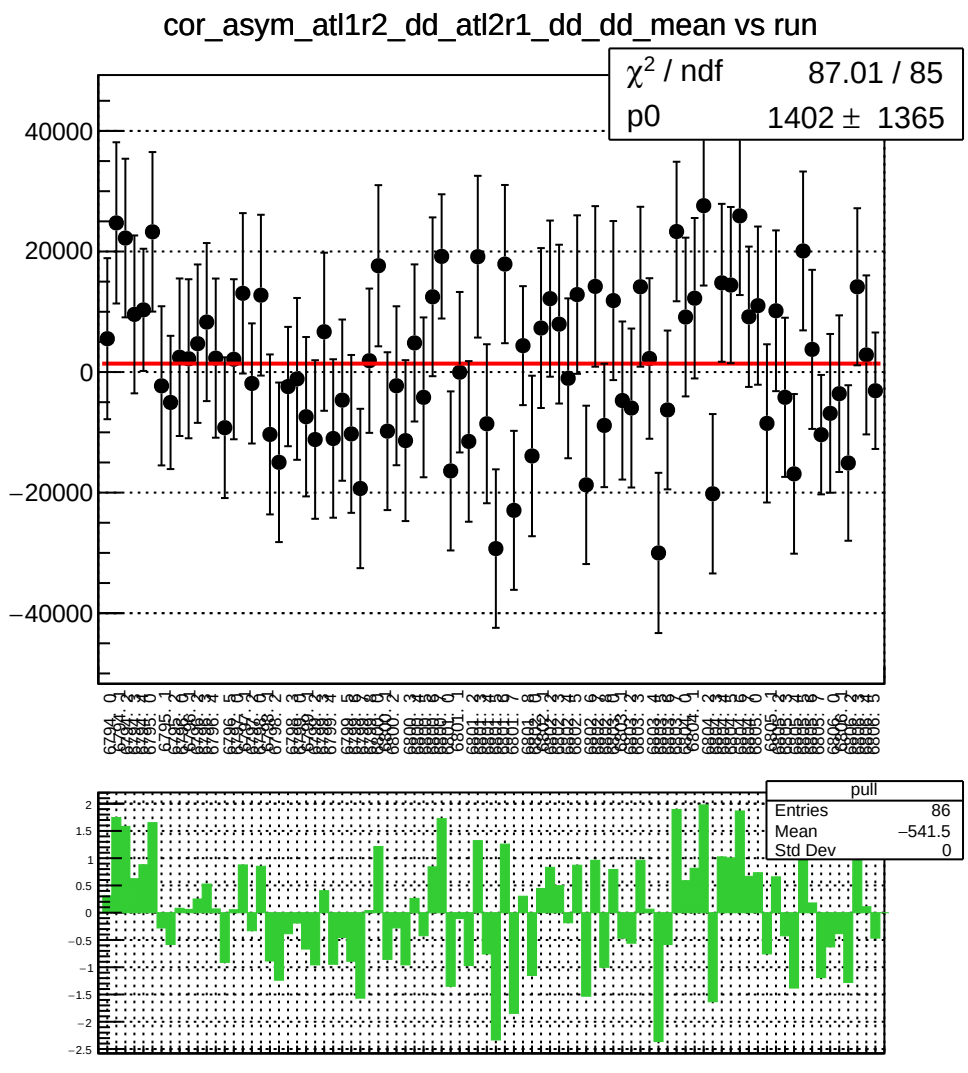

pull1D
Entries 86
Mean 0.001561
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

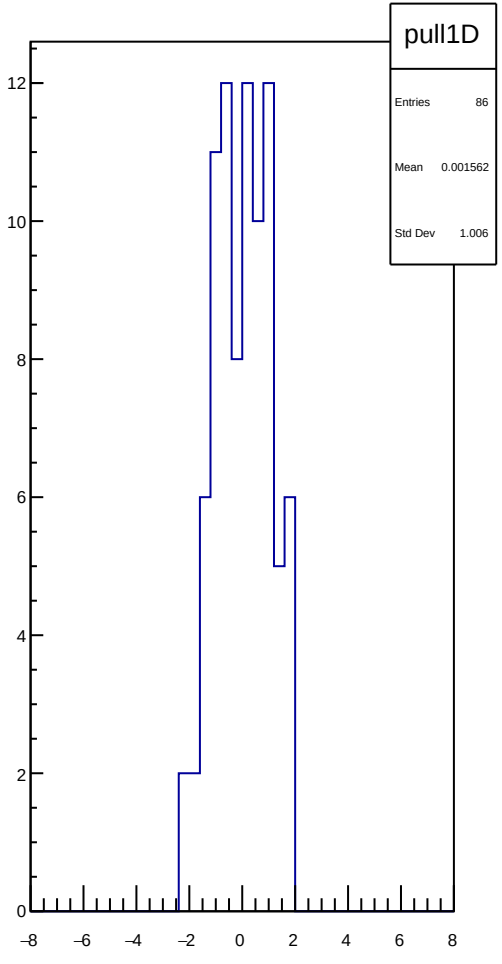

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

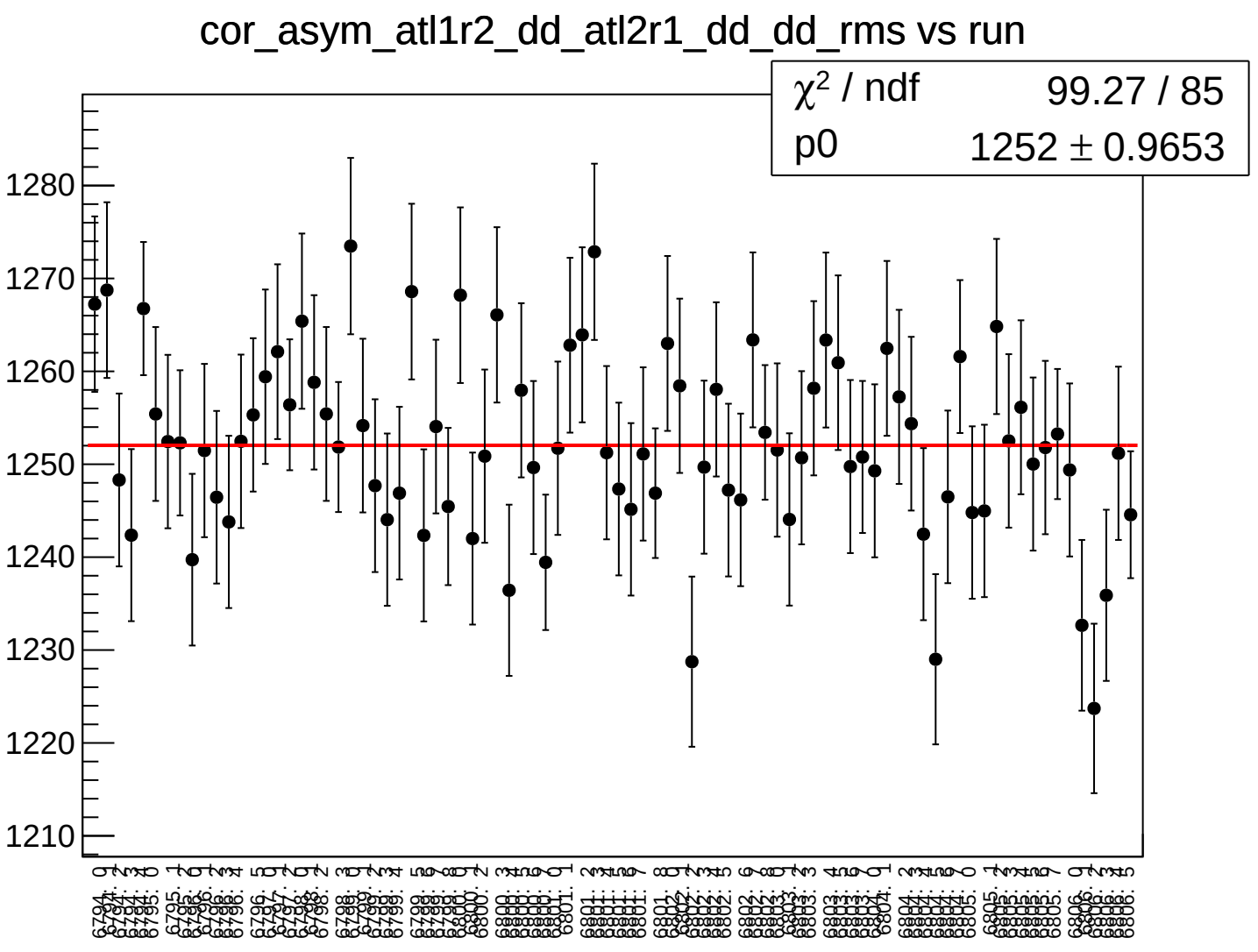

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.59
Std Dev 0
3
2
1
0
−1
−2
−3

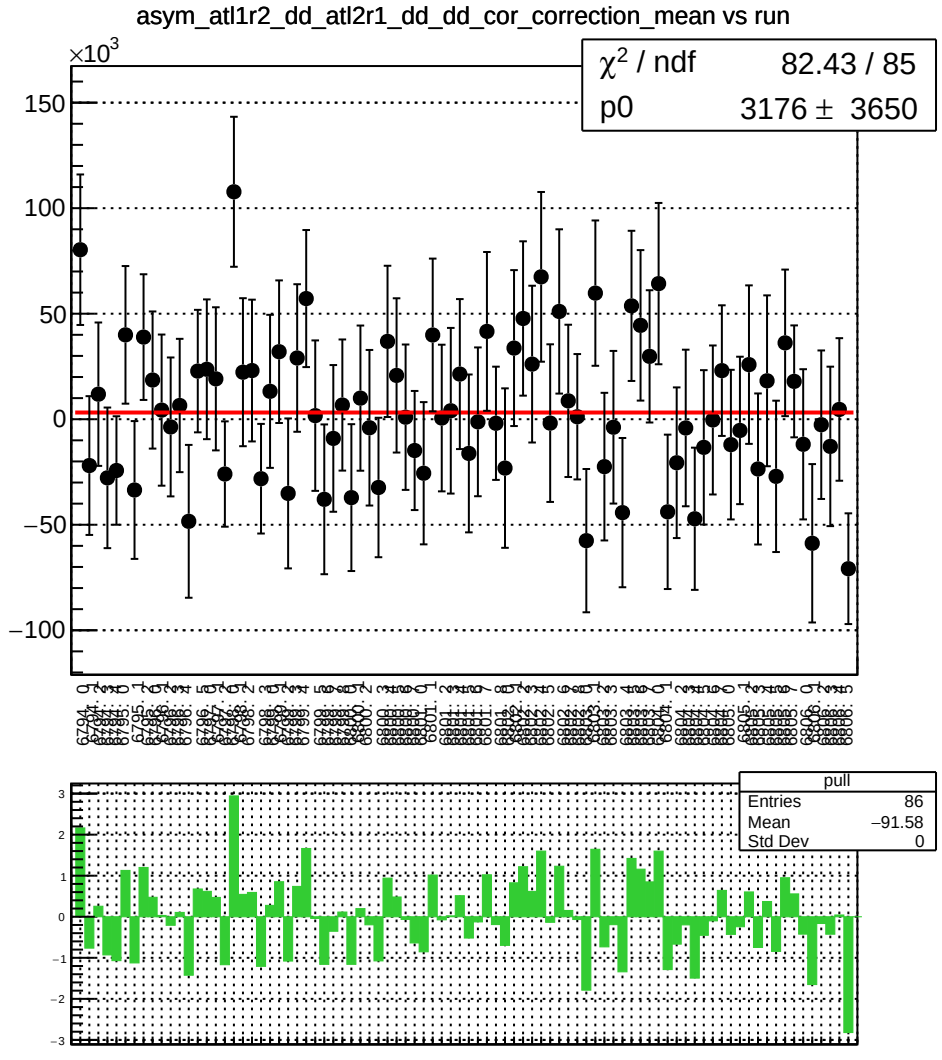

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

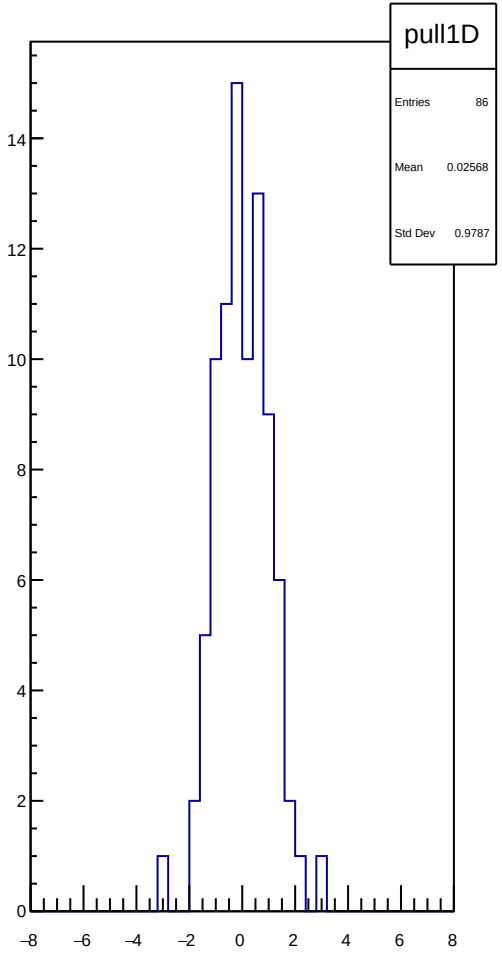

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

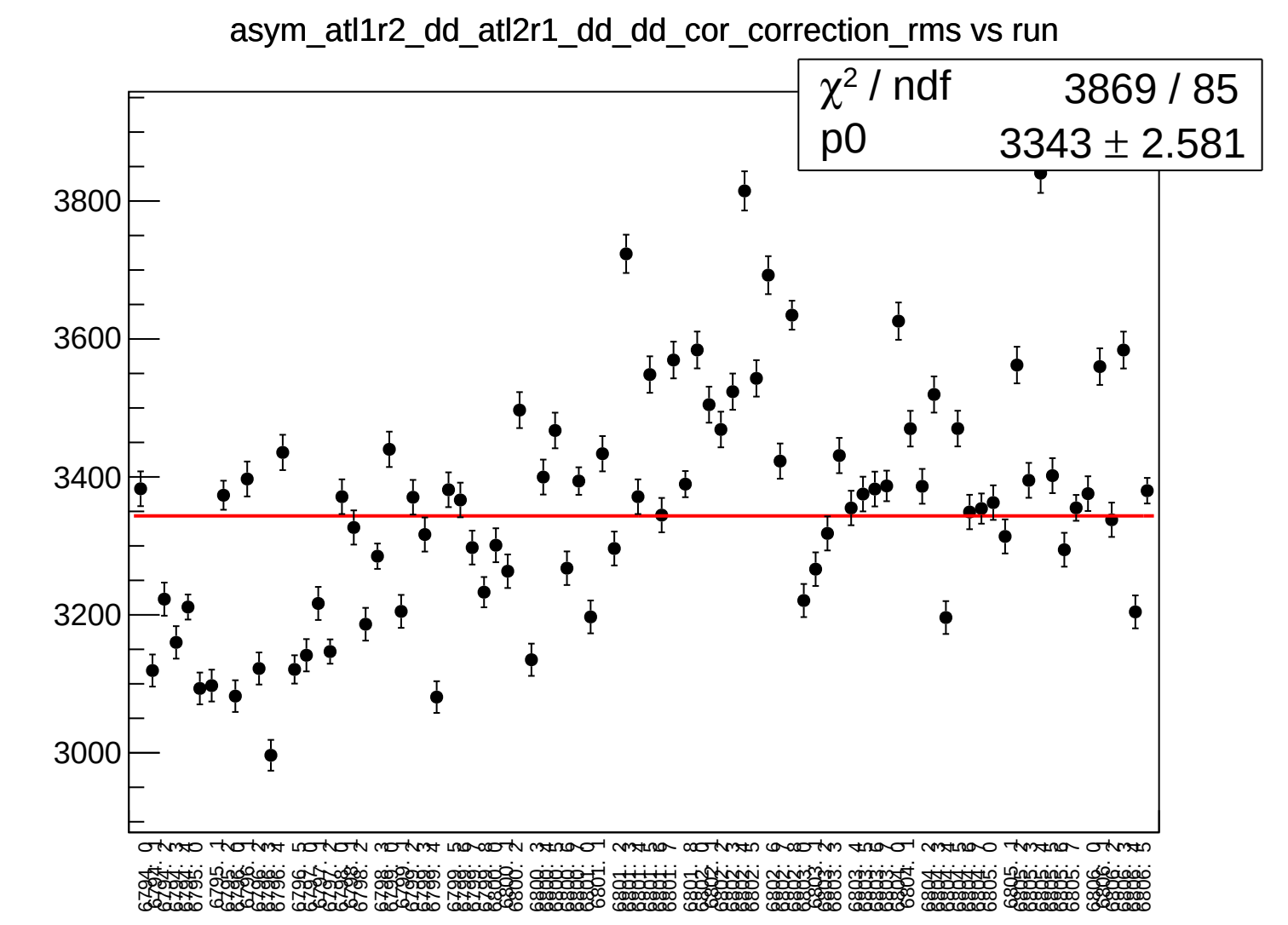

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

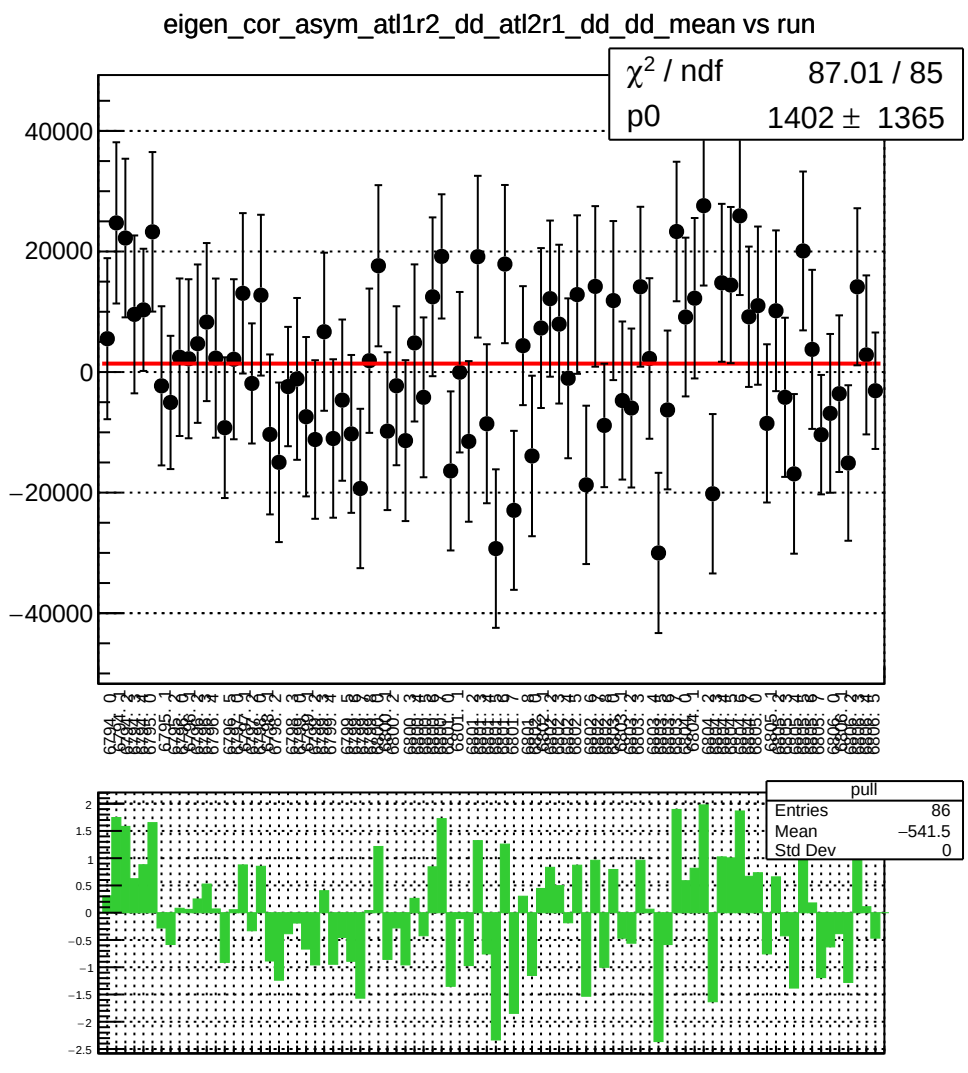

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

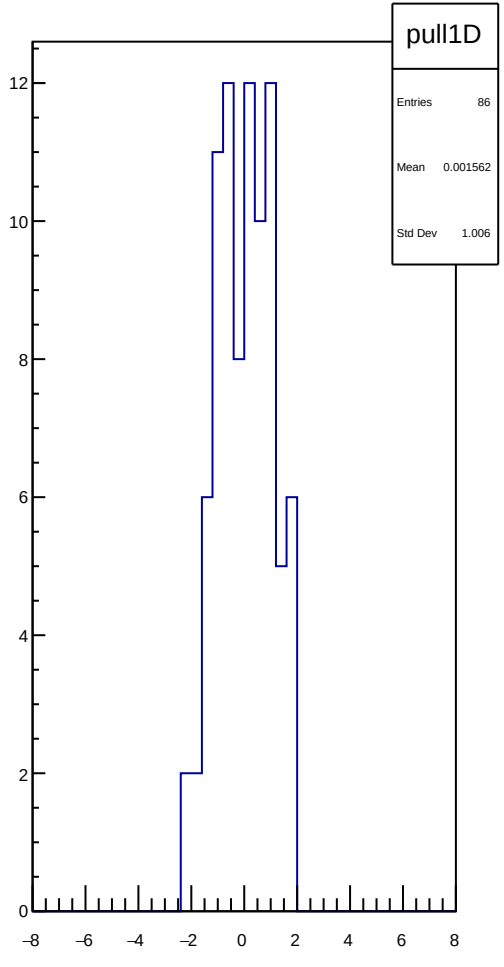

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

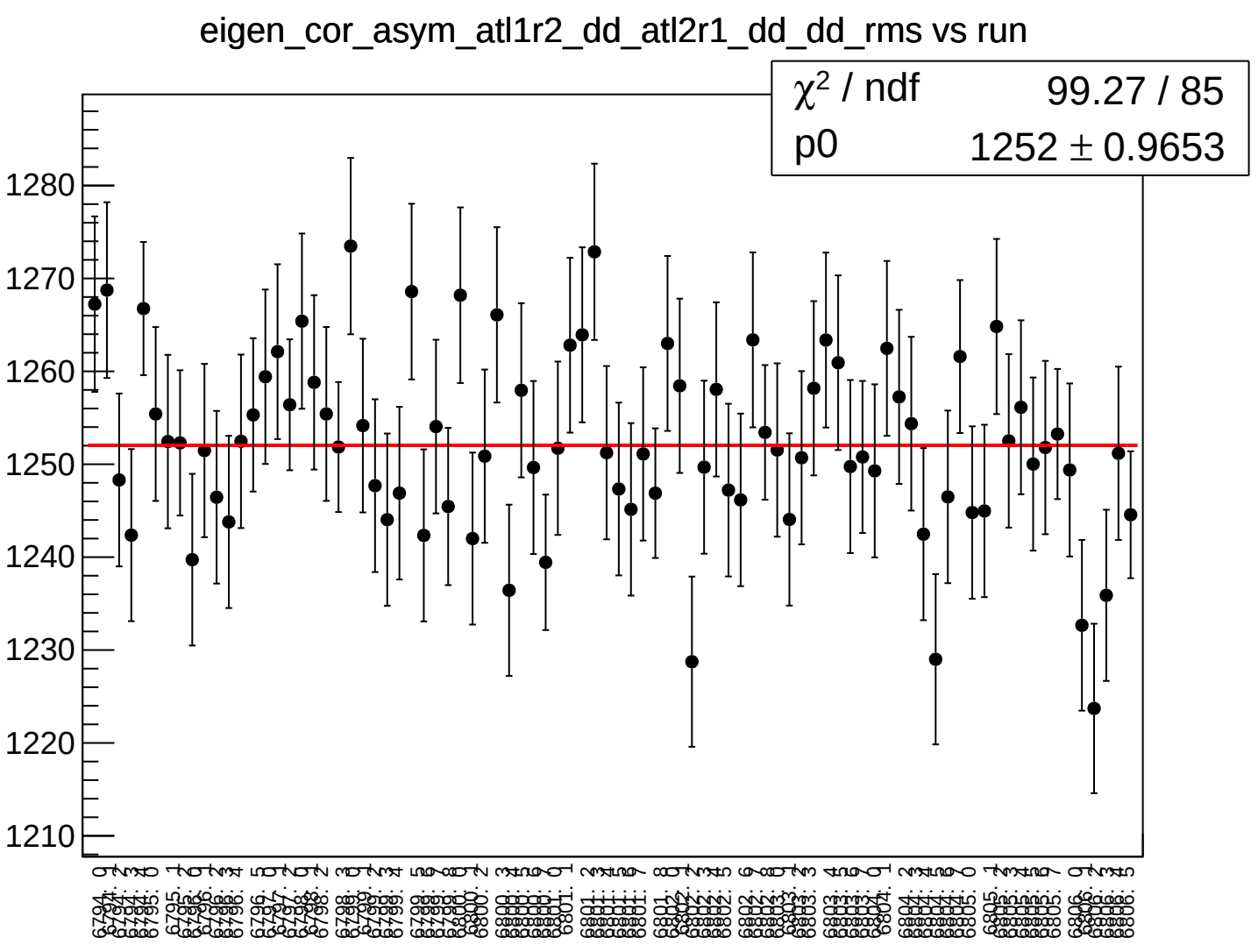

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

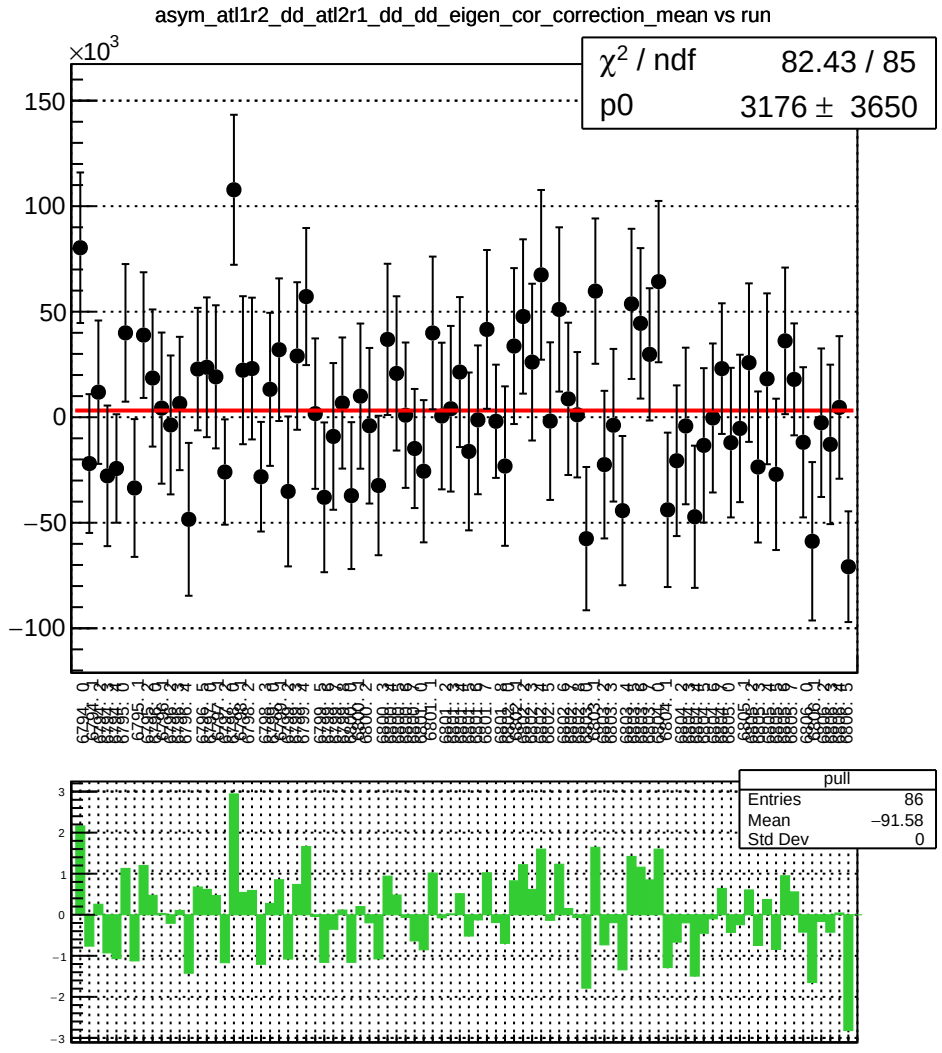

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

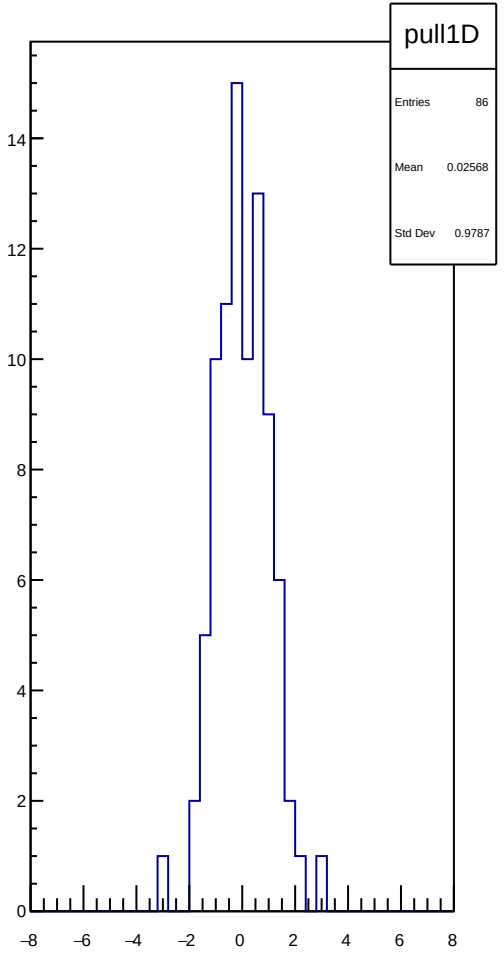

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

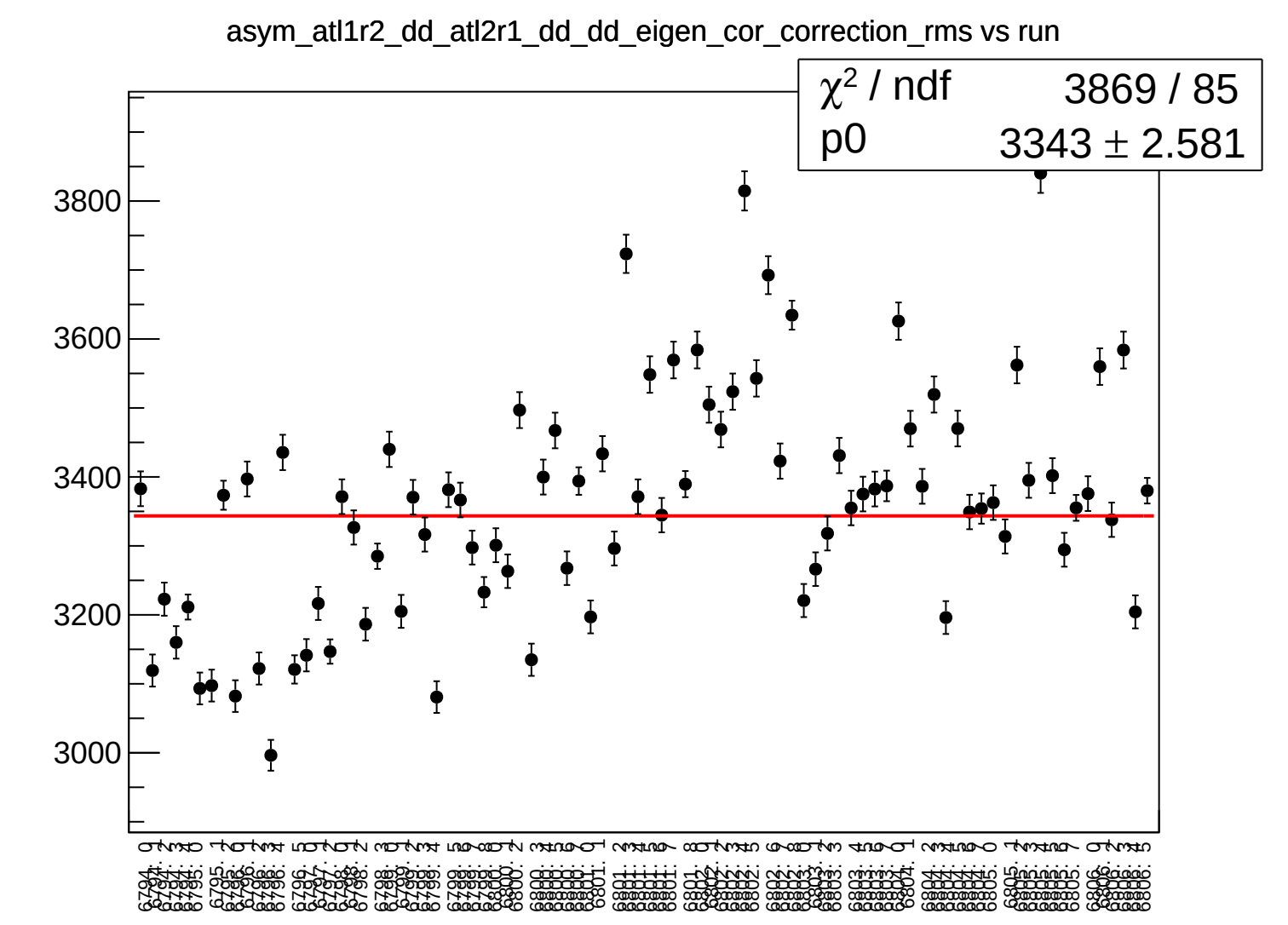

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 87.01 / 85
p0 1402 ± 1365
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −541.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

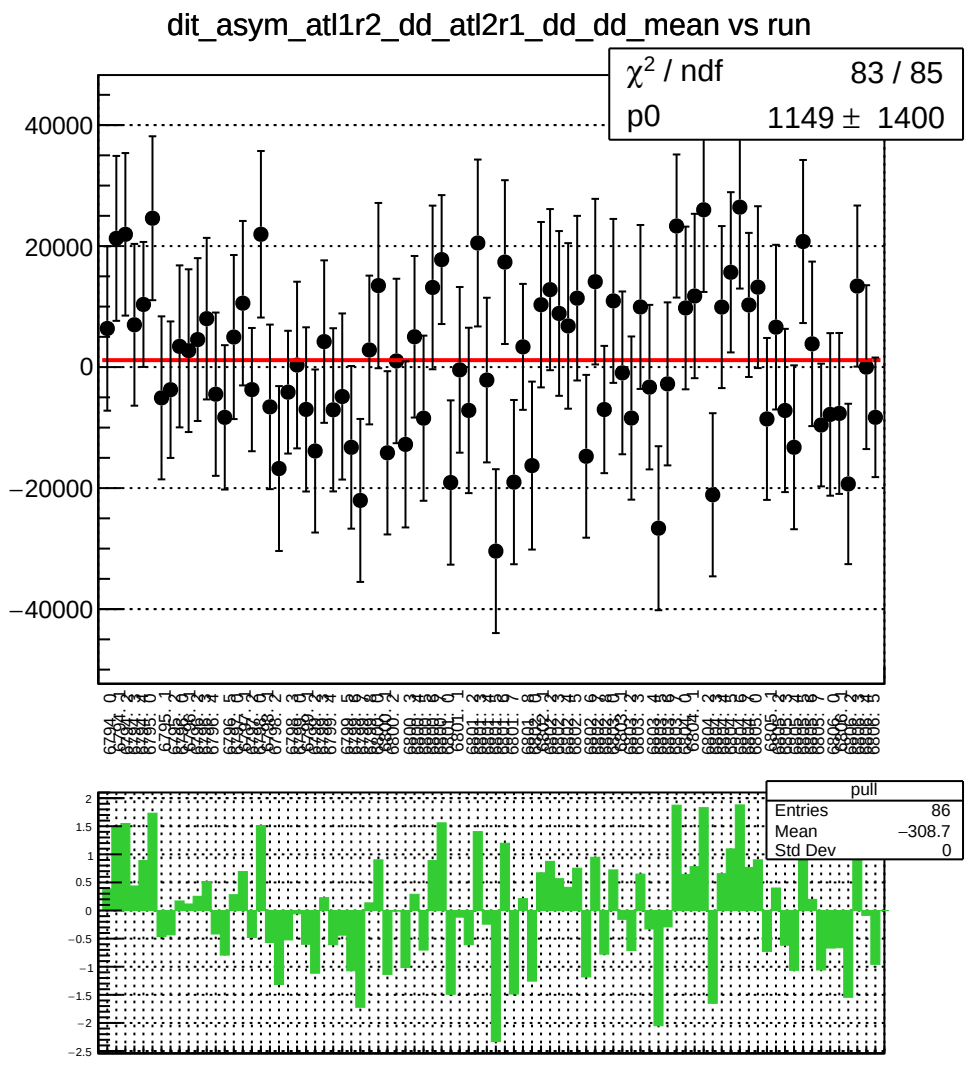

pull1D
Entries 86
Mean 0.001562
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

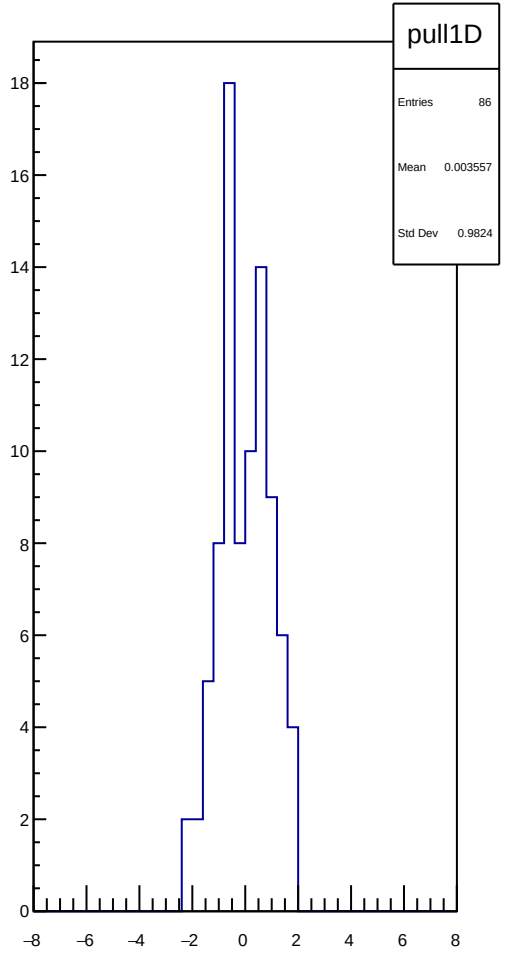

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 99.27 / 85
p0 1252 ± 0.9653
1280
1270
1260
1250
1240
1230
1220
1210

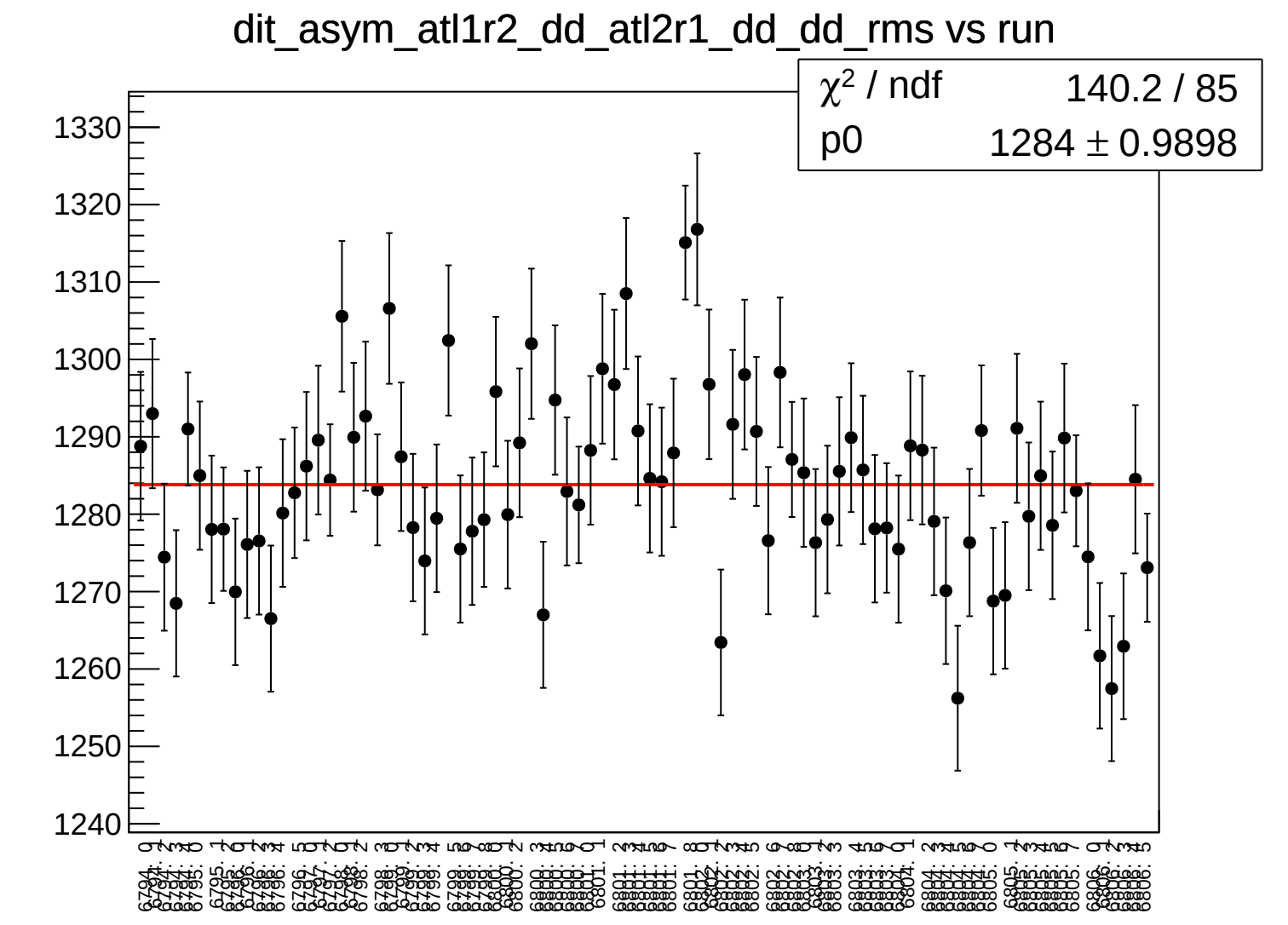

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.43 / 85
p0 3176 ± 3650
150
100
50
0
−50
−100
pull
Entries 86
Mean −91.58
Std Dev 0
3
2
1
0
−1
−2
−3

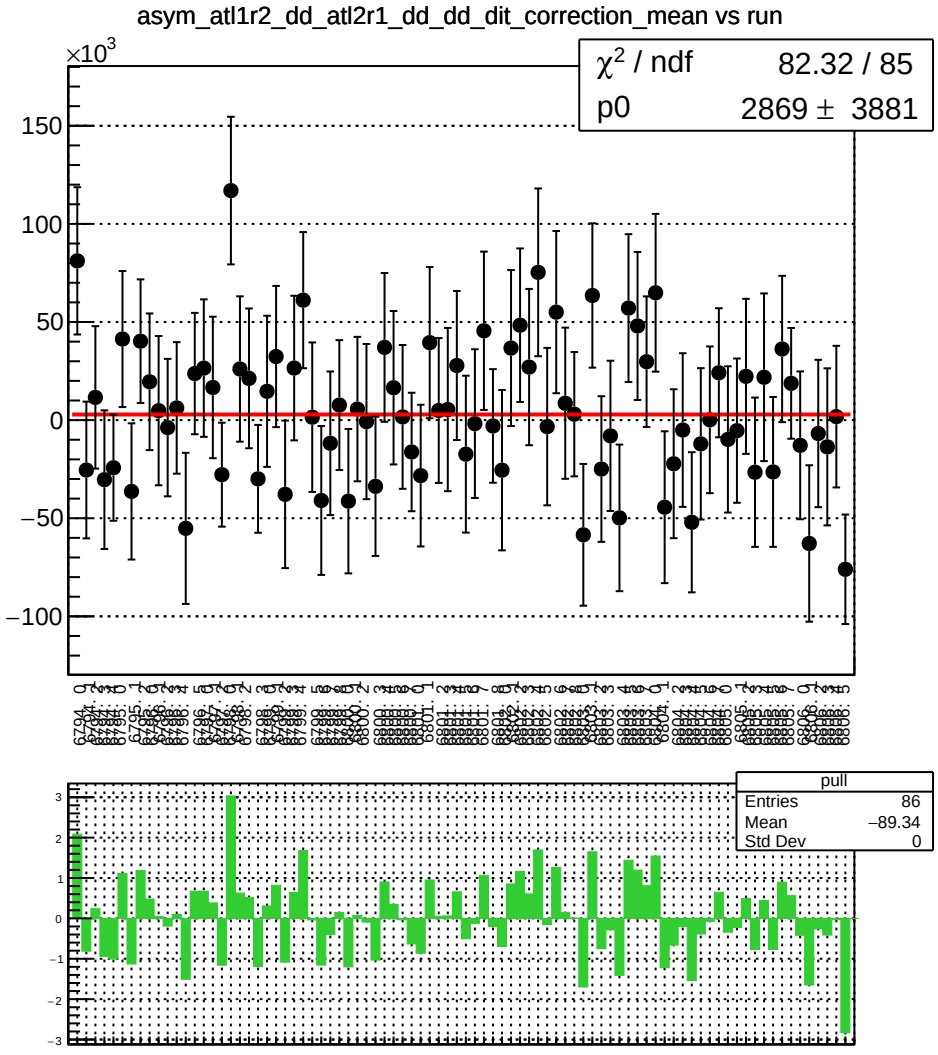

pull1D
Entries 86
Mean 0.02568
Std Dev 0.9787
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

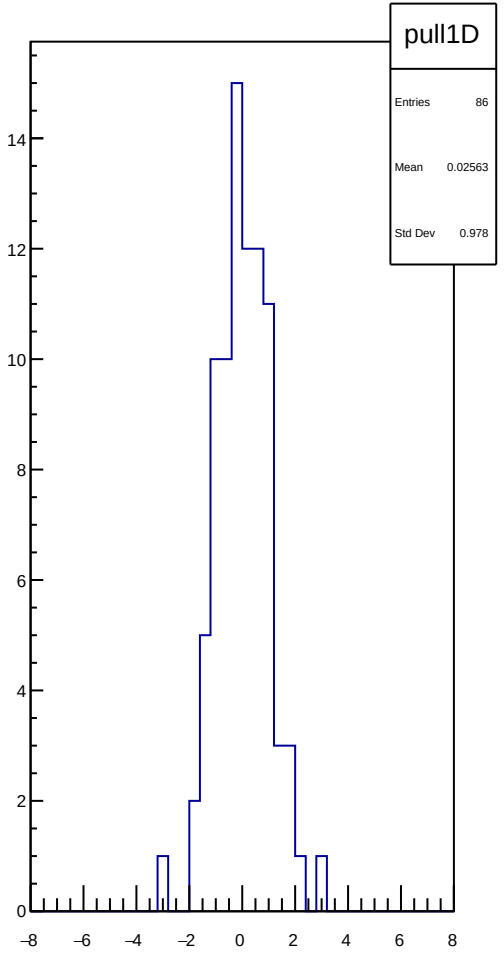

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3869 / 85
p0 3343 ± 2.581
3800
3600
3400
3200
3000

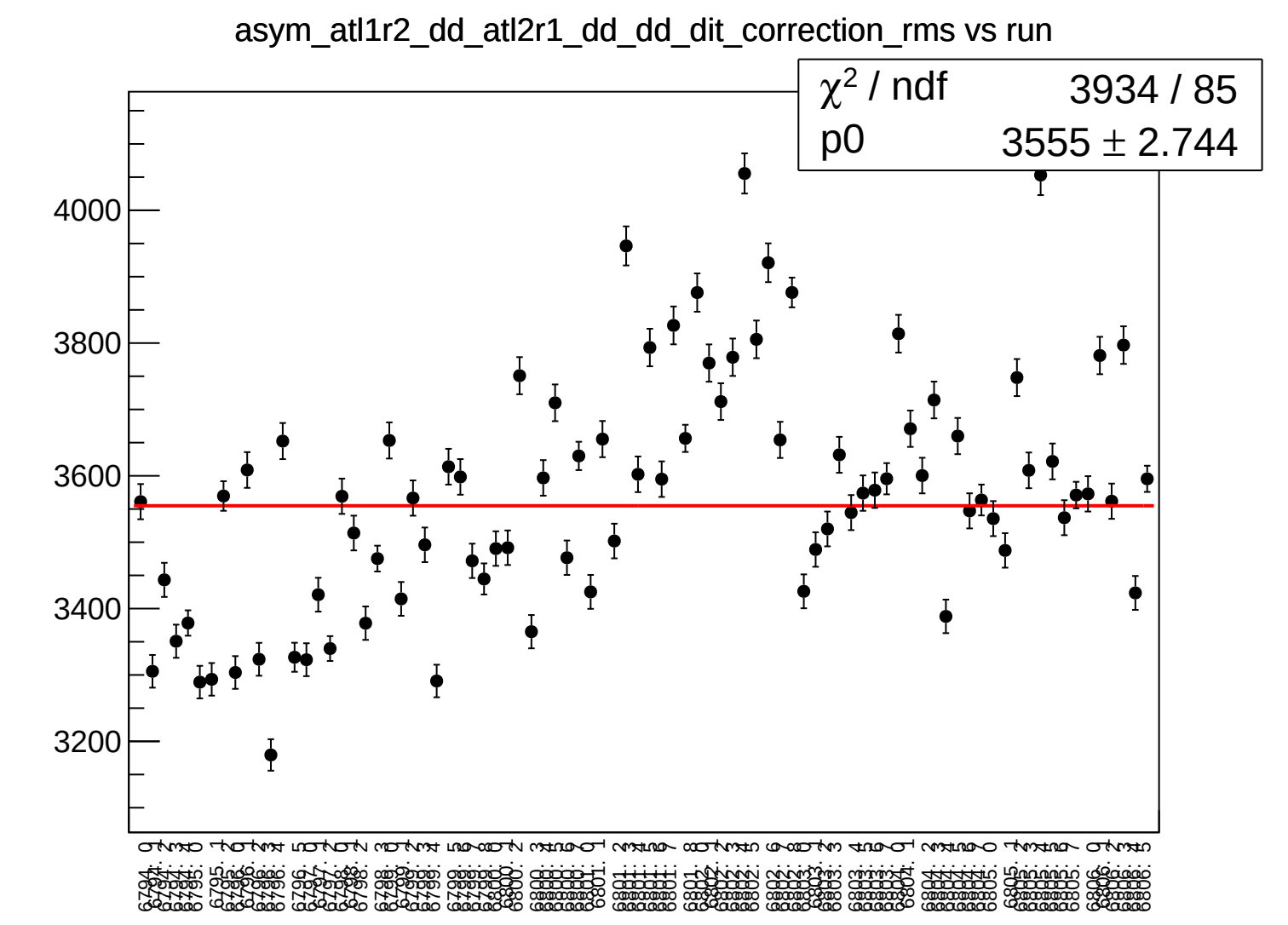

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

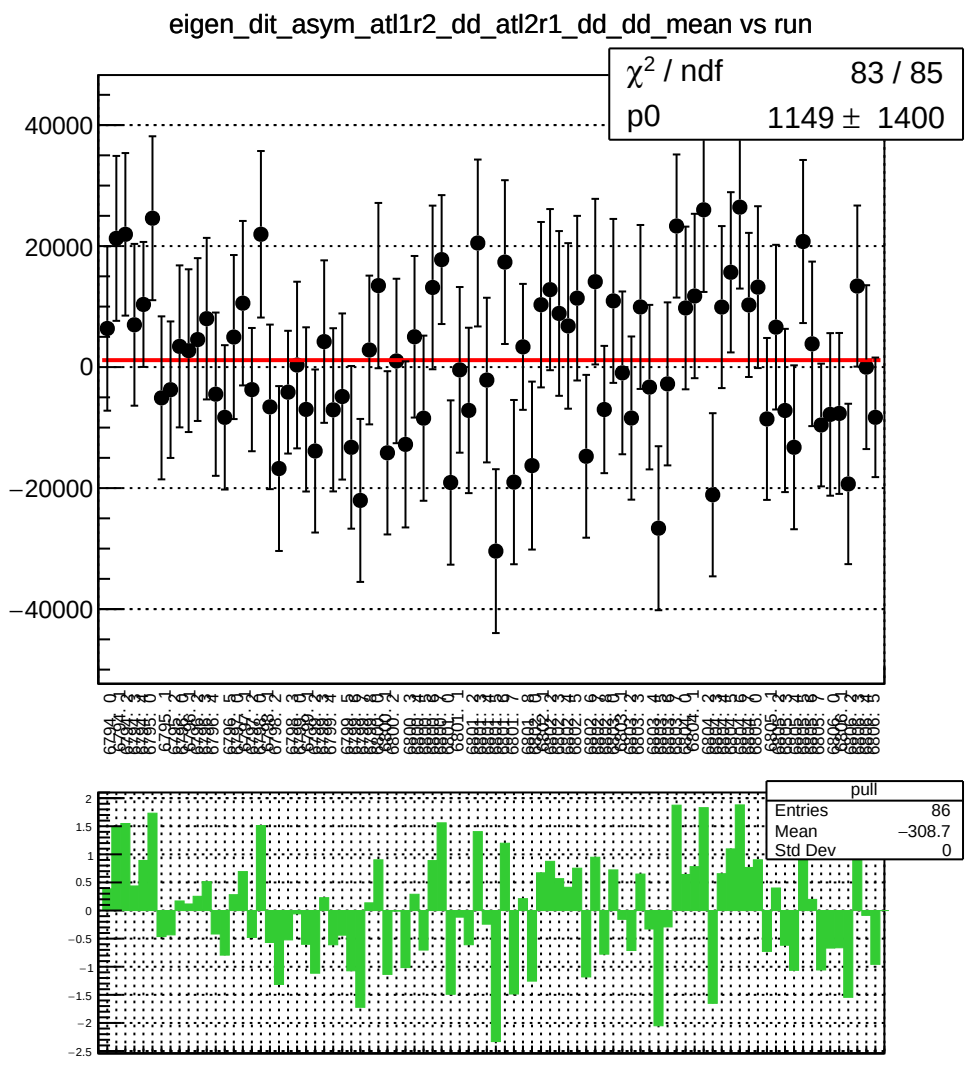

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

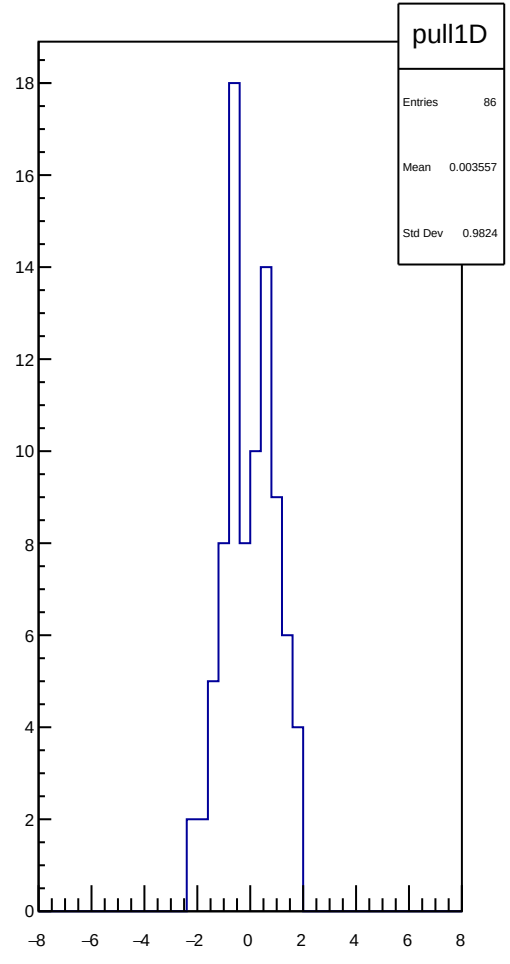

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

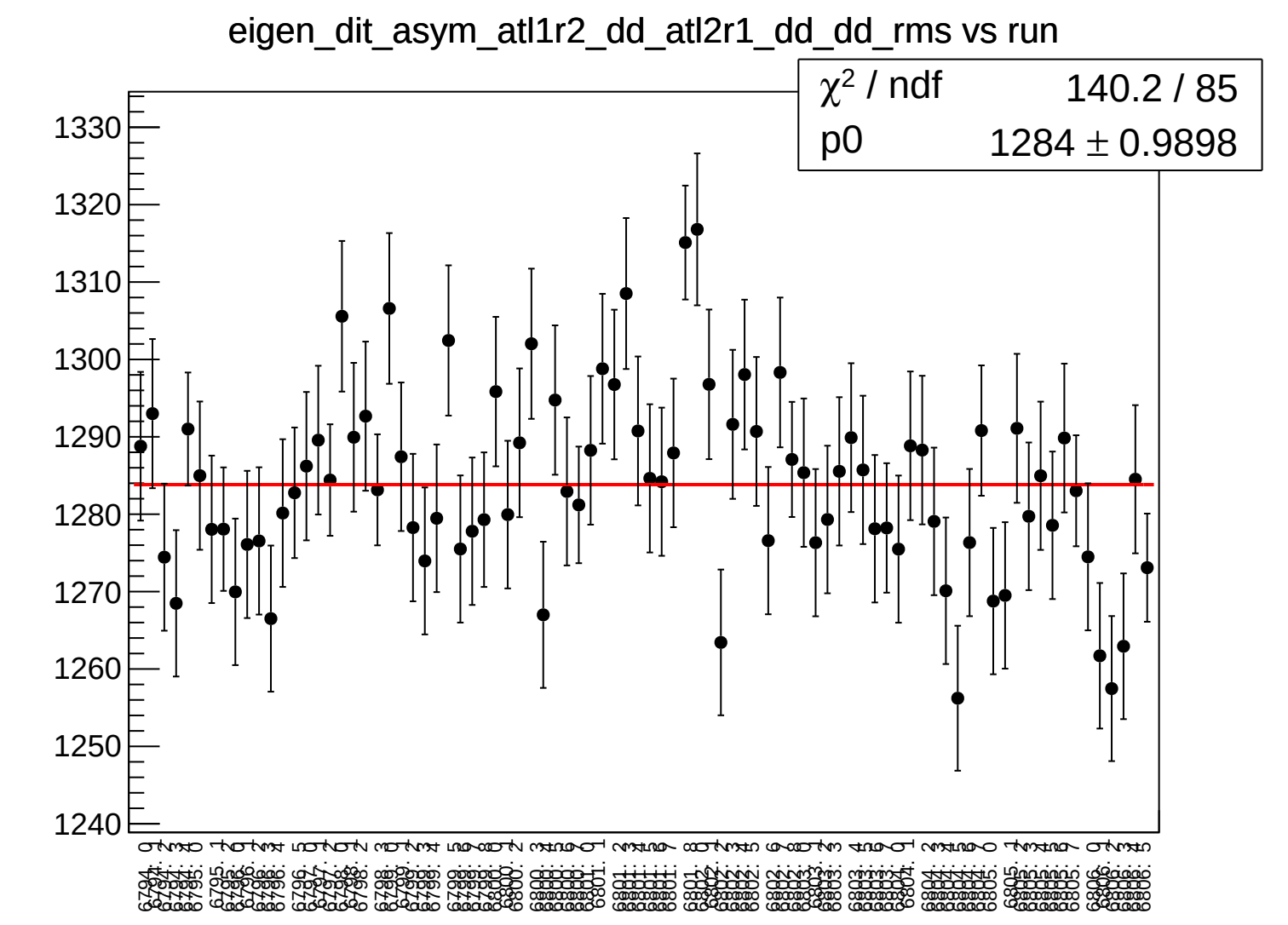

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

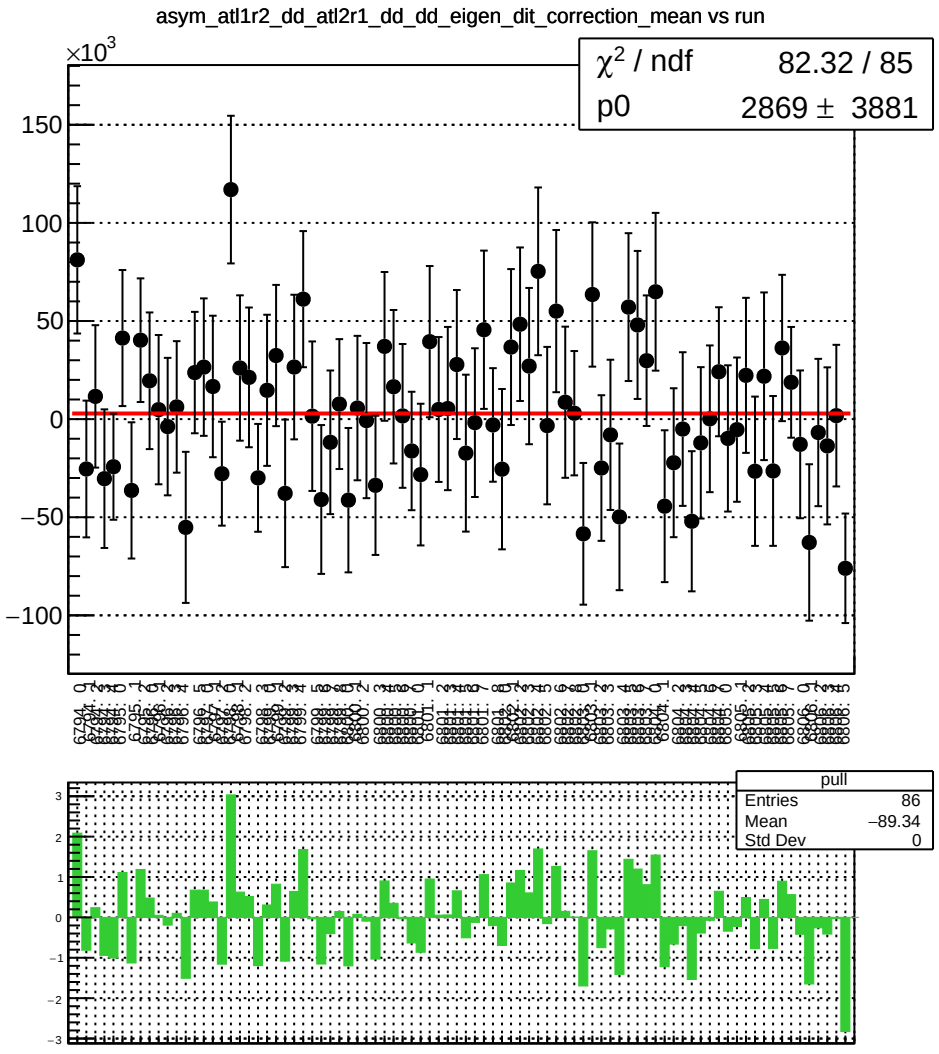

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

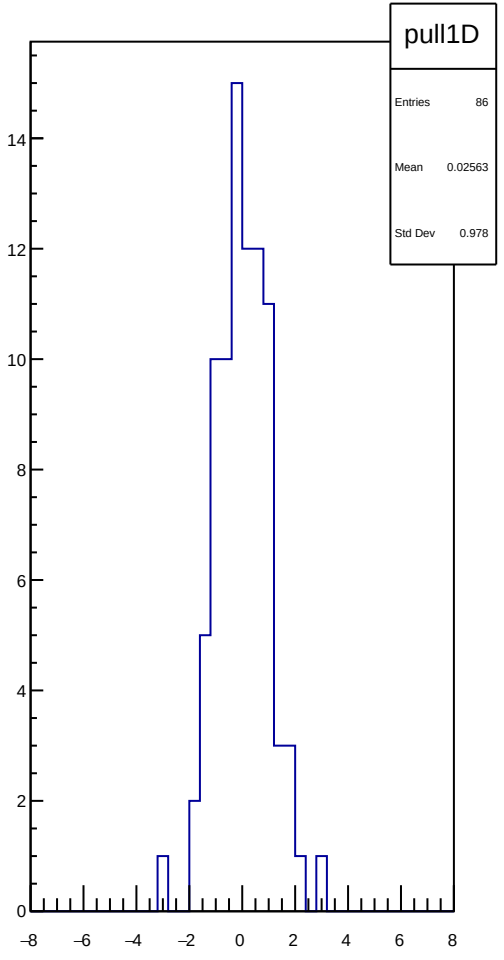

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

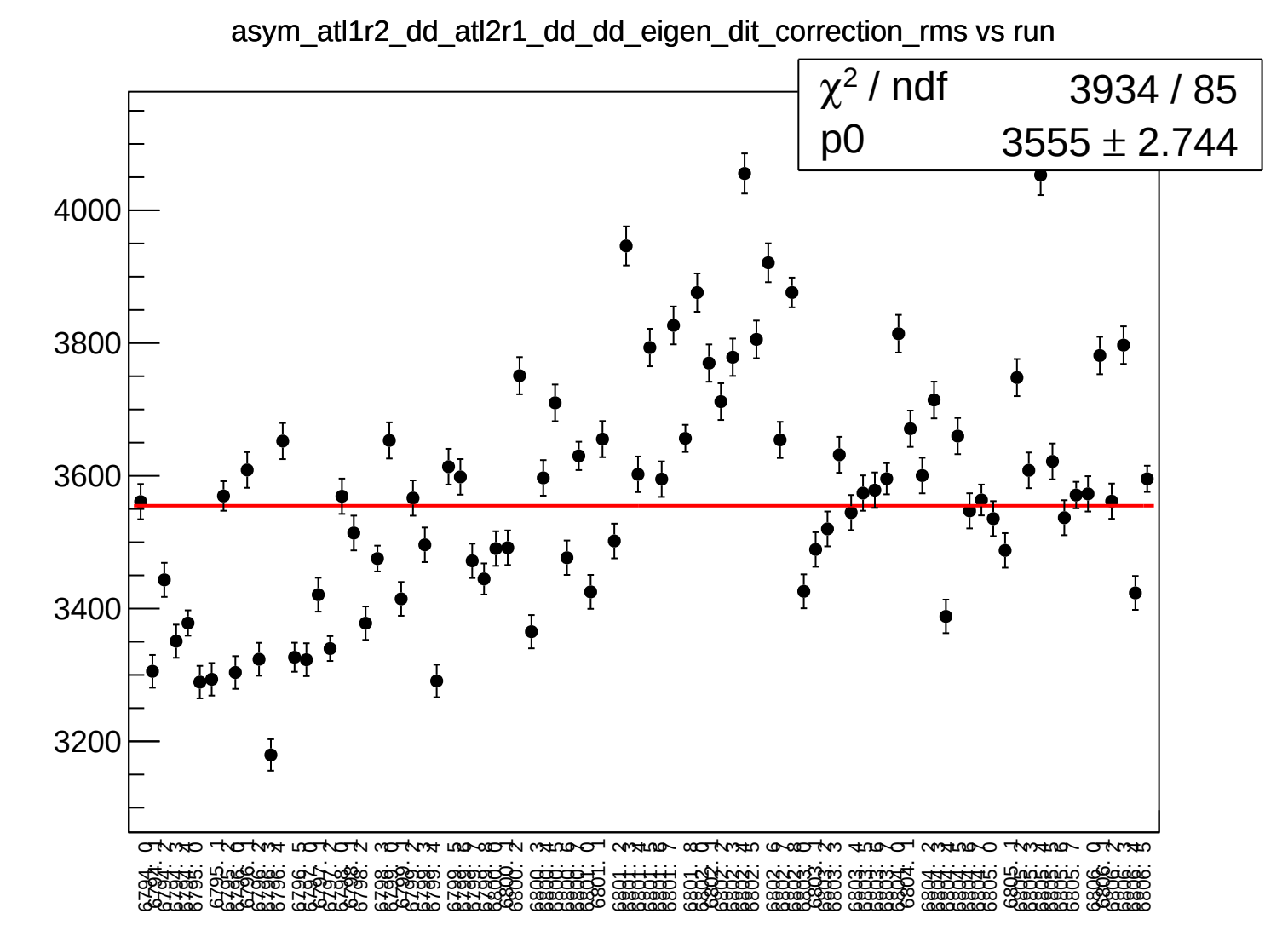

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 83 / 85
p0 1149 ± 1400
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −308.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

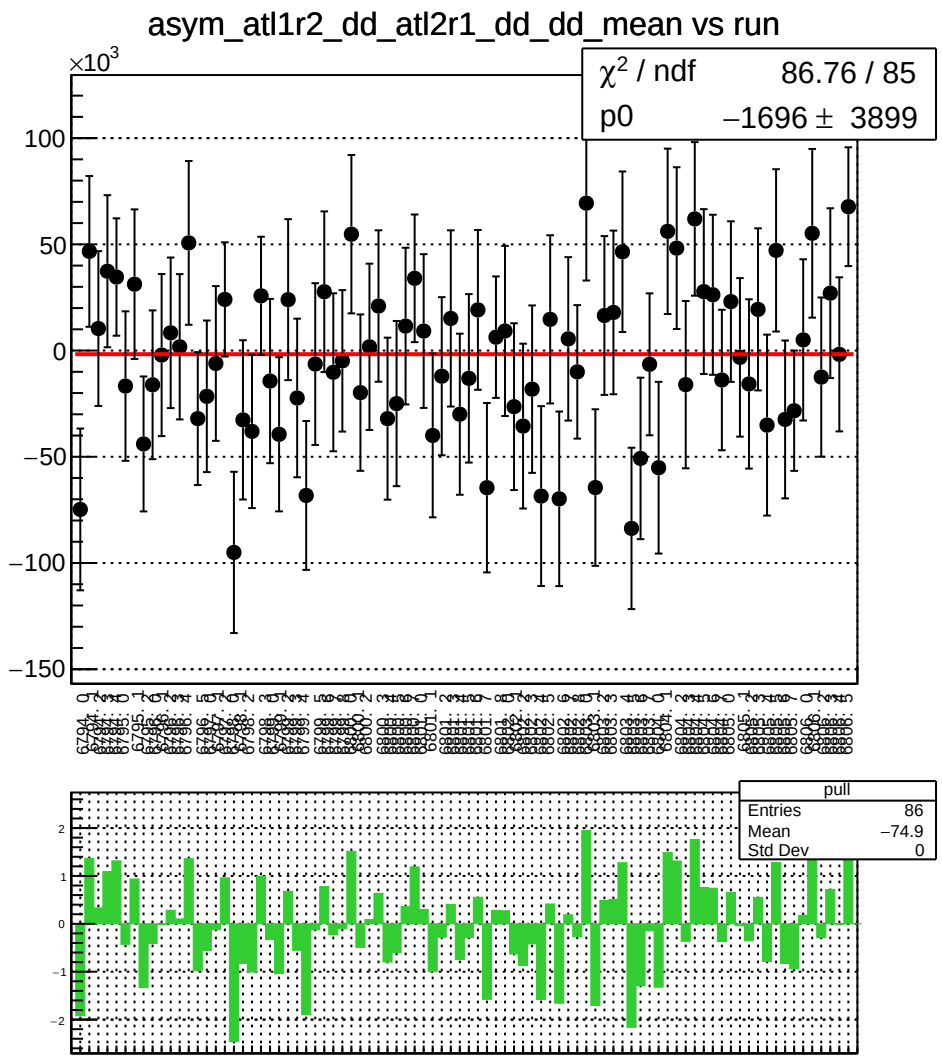

pull1D
Entries 86
Mean 0.003557
Std Dev 0.9824
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

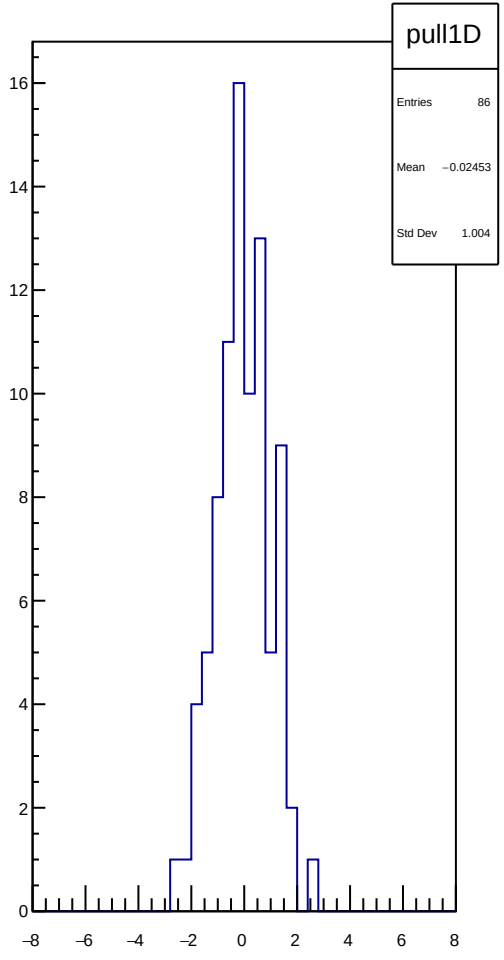

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 140.2 / 85
p0 1284 ± 0.9898
1330
1320
1310
1300
1290
1280
1270
1260
1250
1240

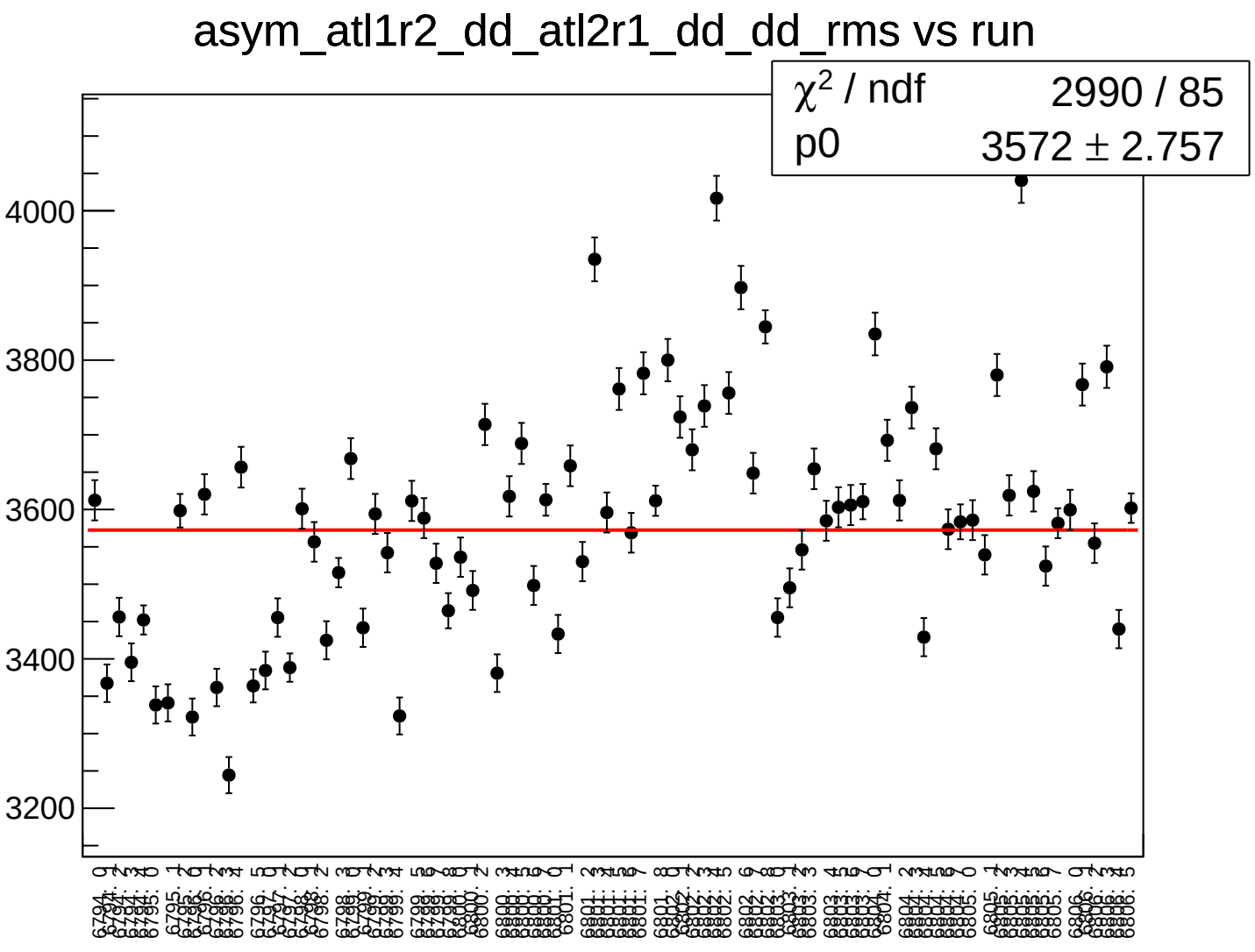

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.32 / 85
p0 2869 ± 3881
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.34
Std Dev 0
3
2
1
0
−1
−2
−3

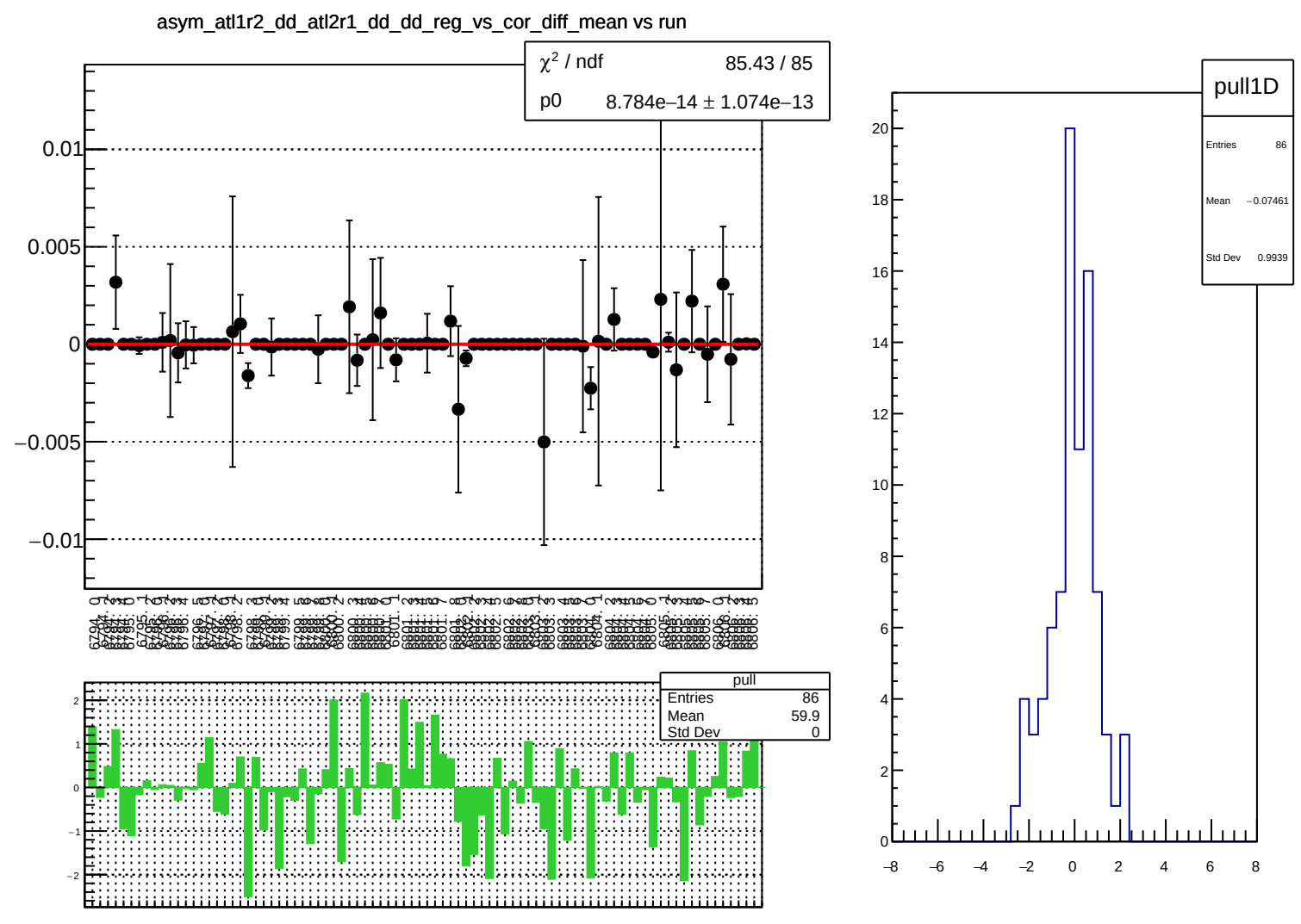

pull1D
Entries 86
Mean 0.02563
Std Dev 0.978
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

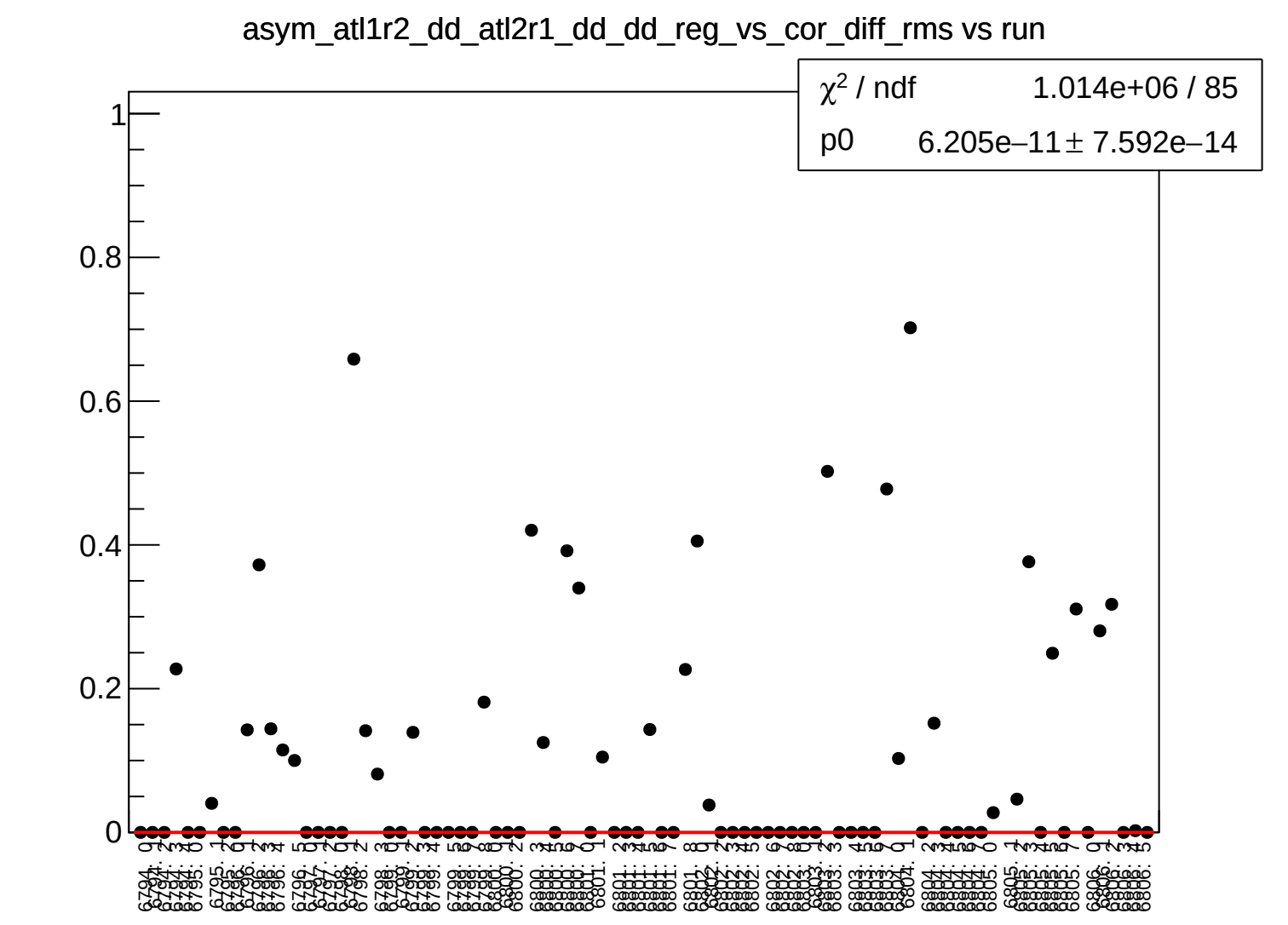

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 3934 / 85
p0 3555 ± 2.744
4000
3800
3600
3400
3200

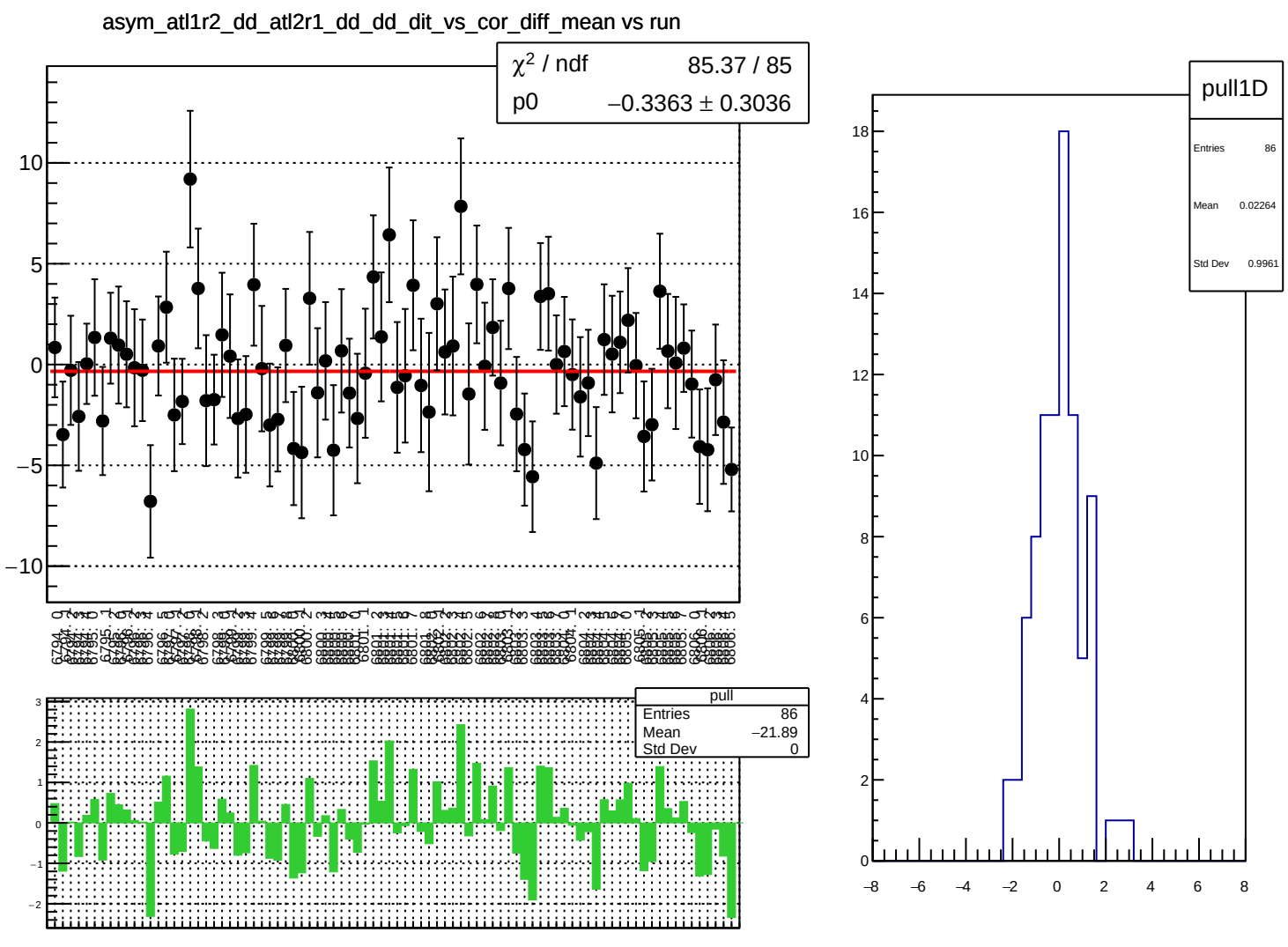

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 86.76 / 85
p0 −1696 ± 3899
100
50
0
−50
−100
−150
pull
Entries 86
Mean −74.9
Std Dev 0
2
1
0
−1
−2

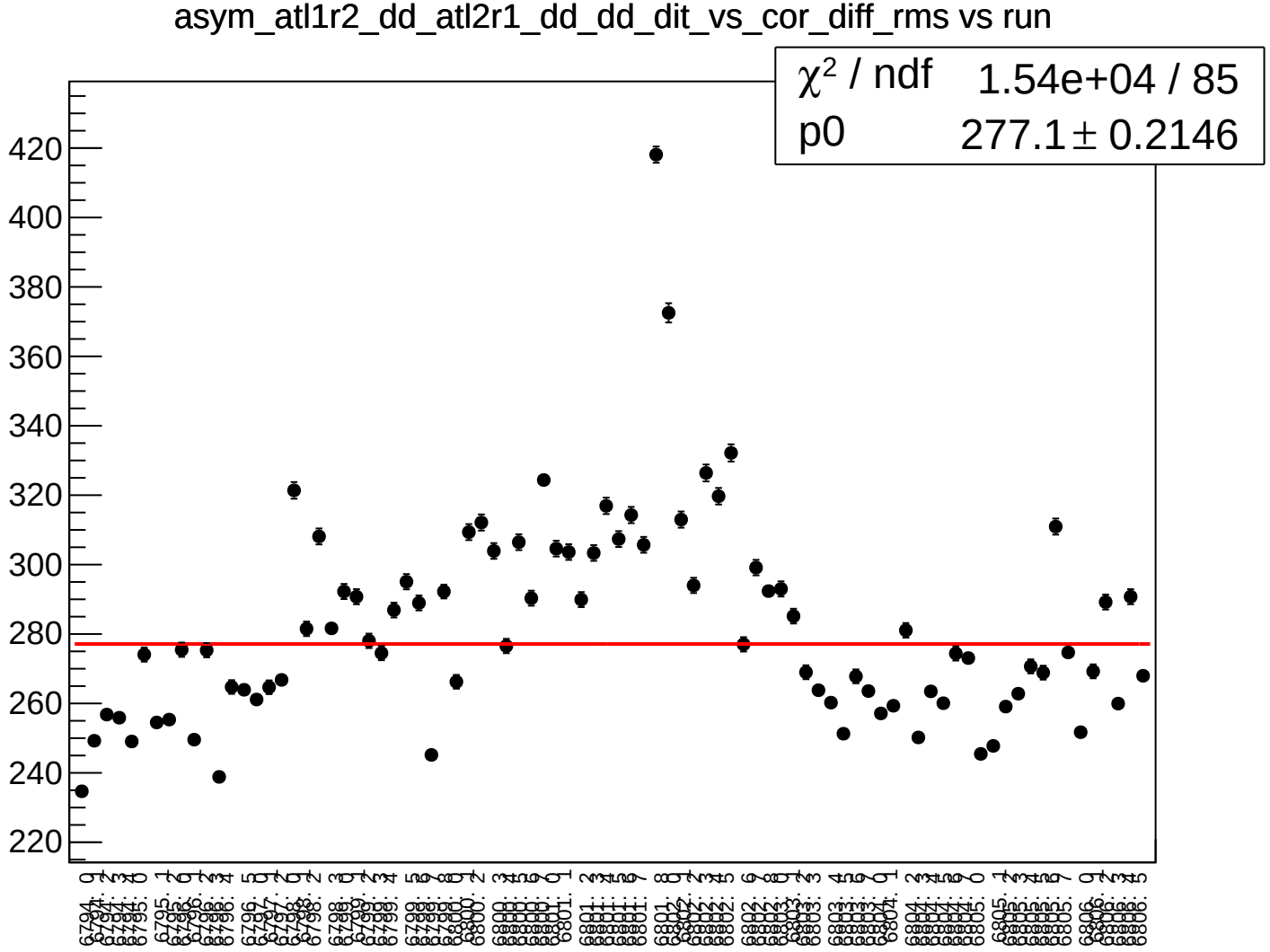

pull1D
Entries 86
Mean −0.02453
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

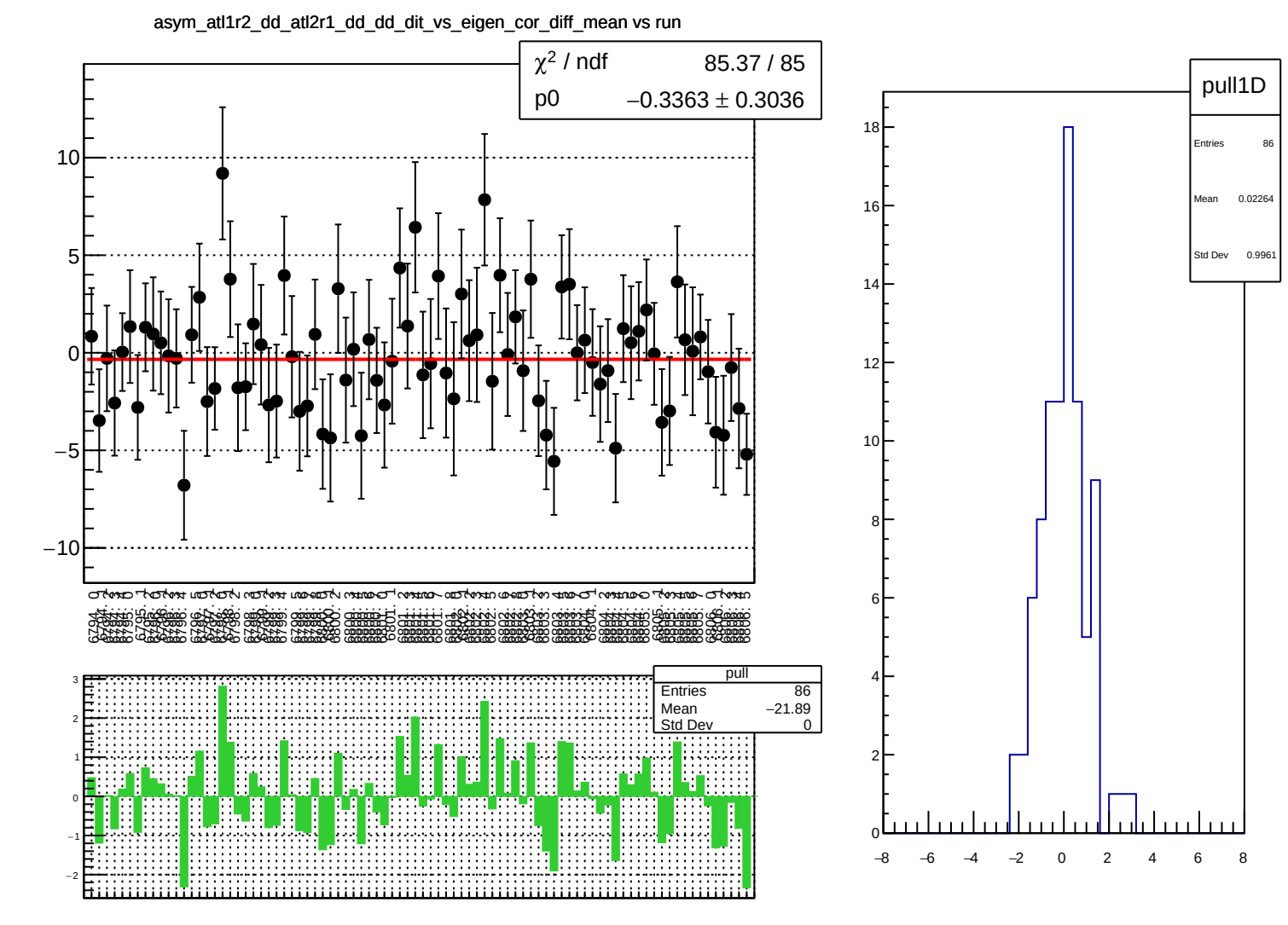

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 2990 / 85
p0 3572 ± 2.757
4000
3800
3600
3400
3200

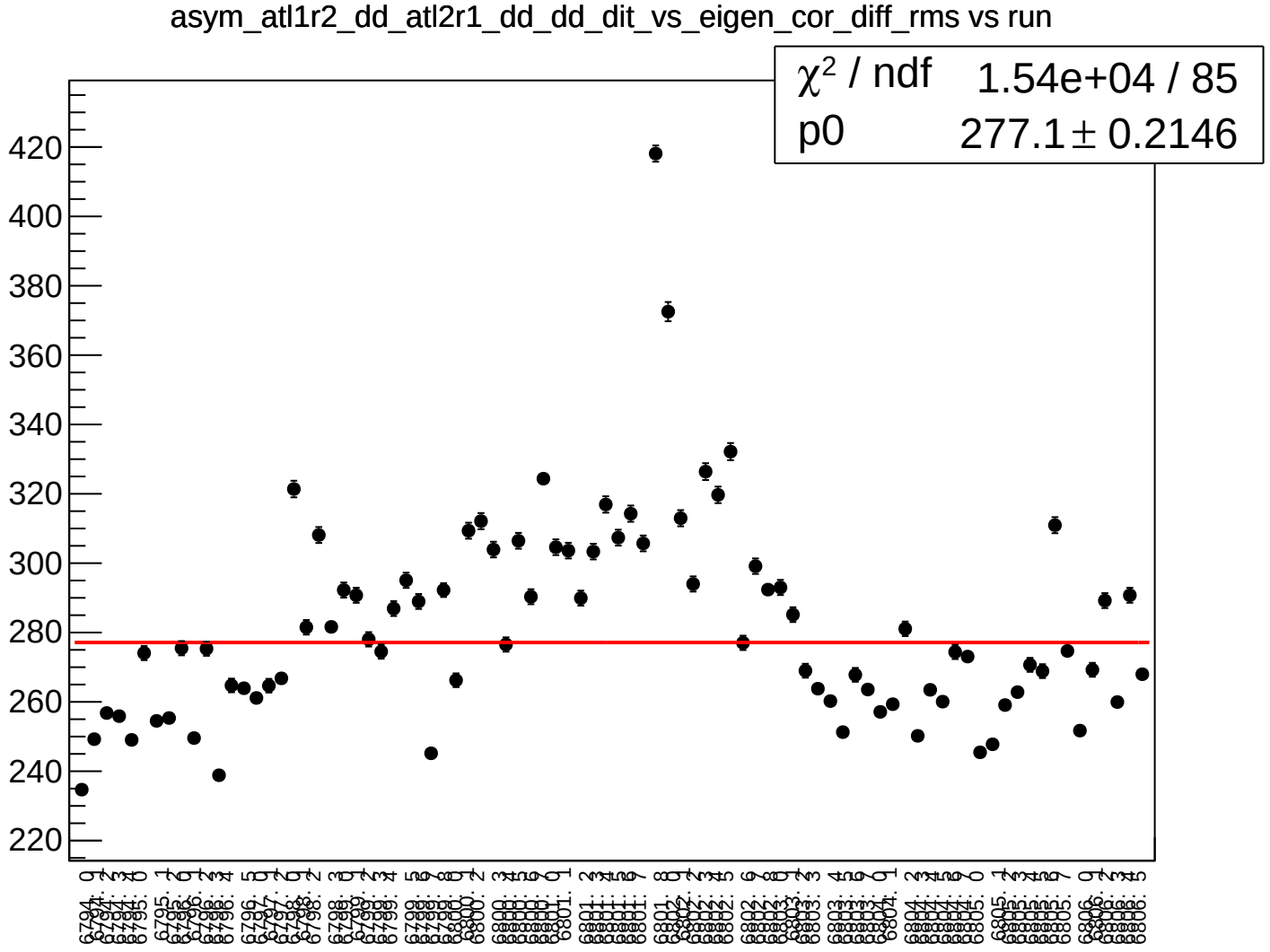

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.43 / 85
p0 8.784e−14 ± 1.074e−13
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 59.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.07461
Std Dev 0.9939
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

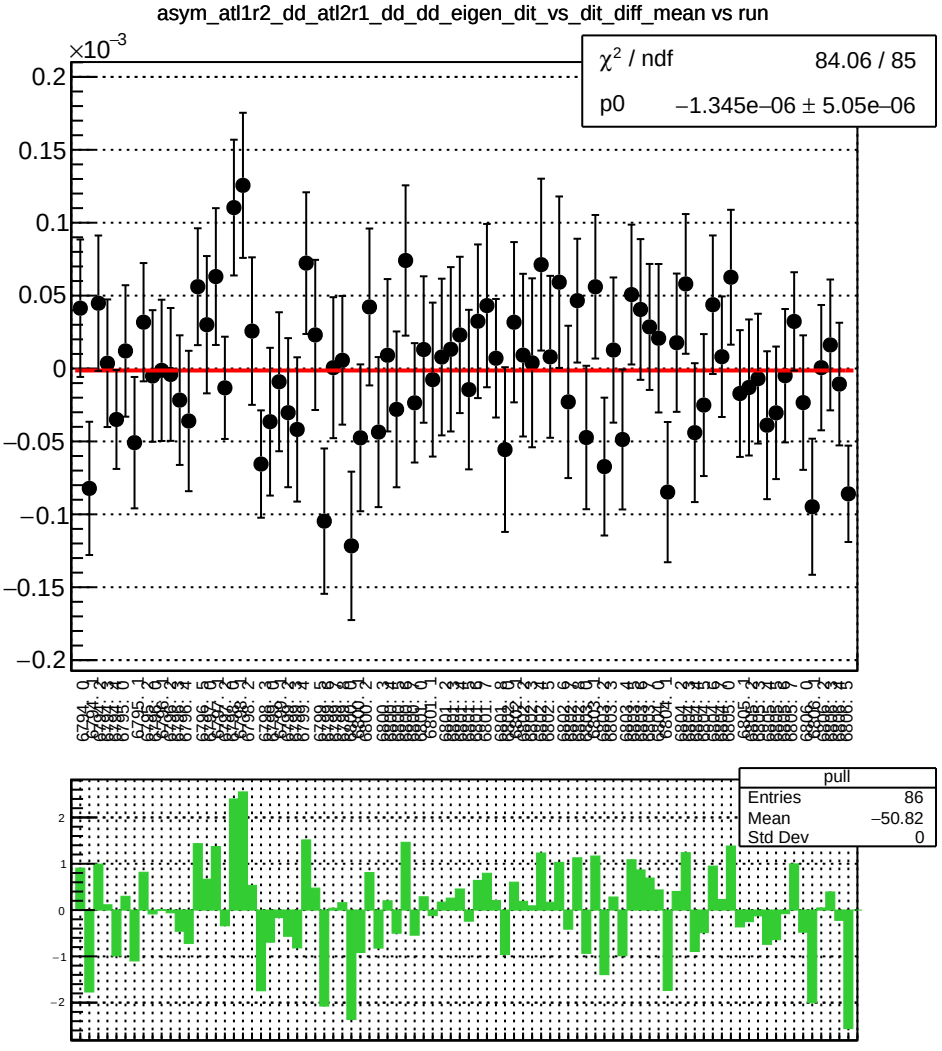

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.014e+06 / 85
p0 6.205e−11 ± 7.592e−14
1
0.8
0.6
0.4
0.2
0

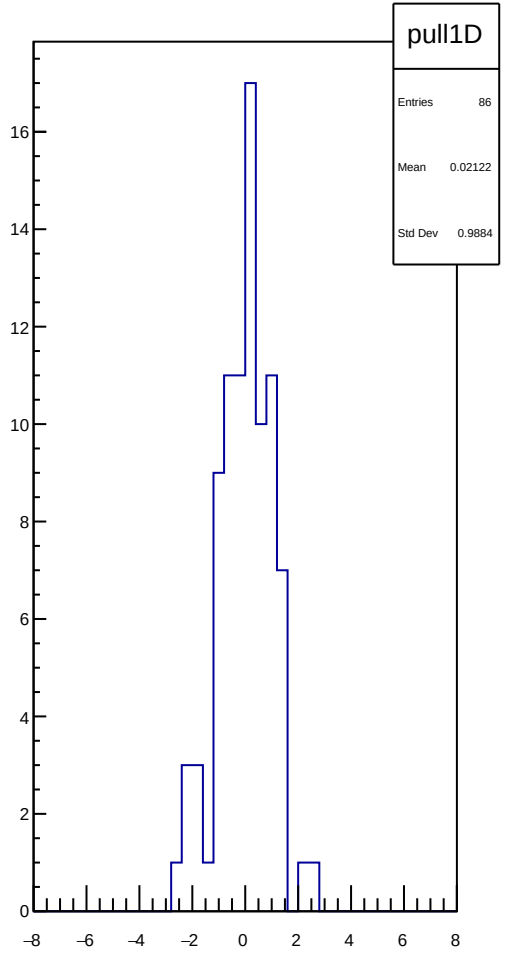

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

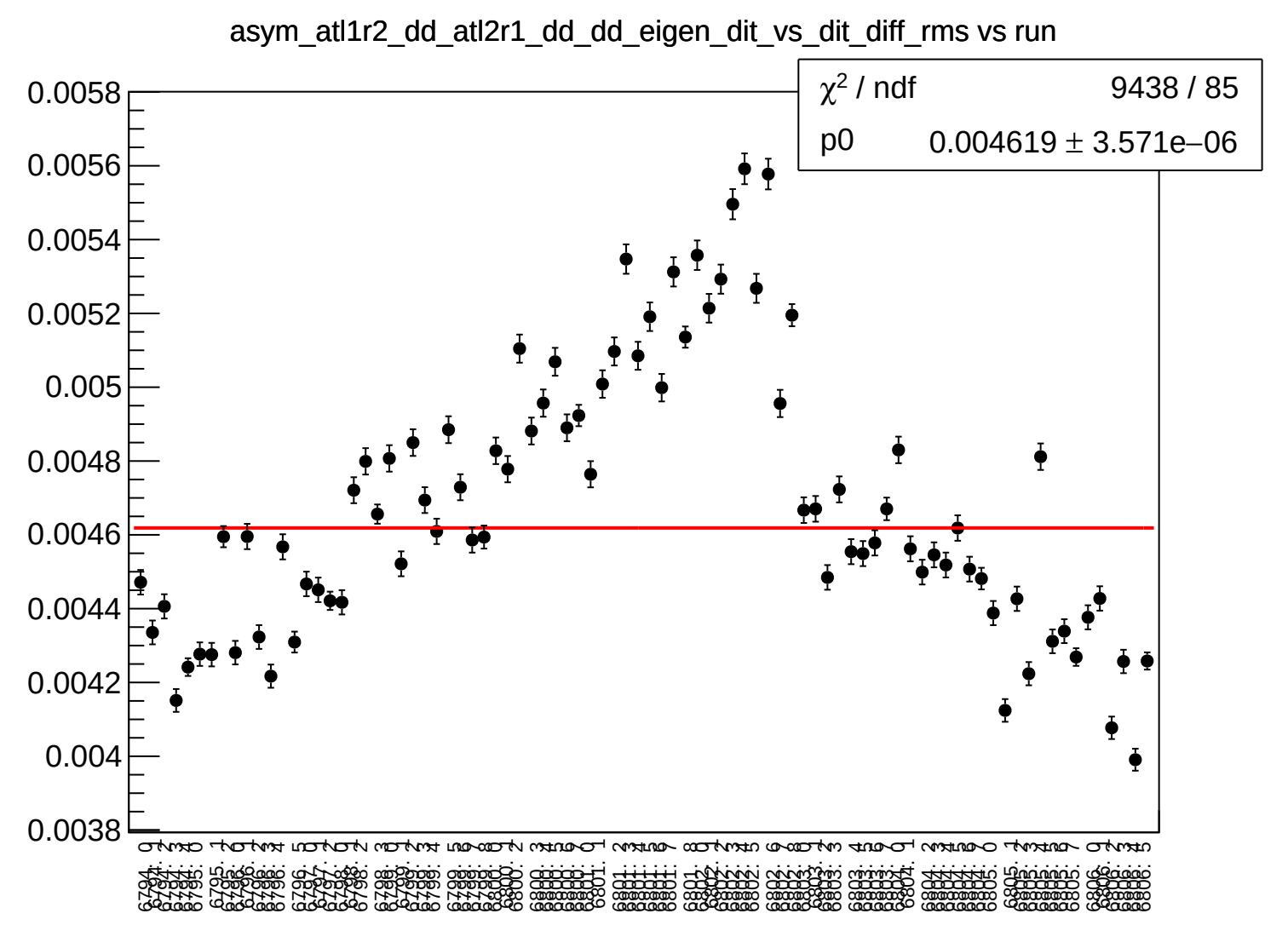

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

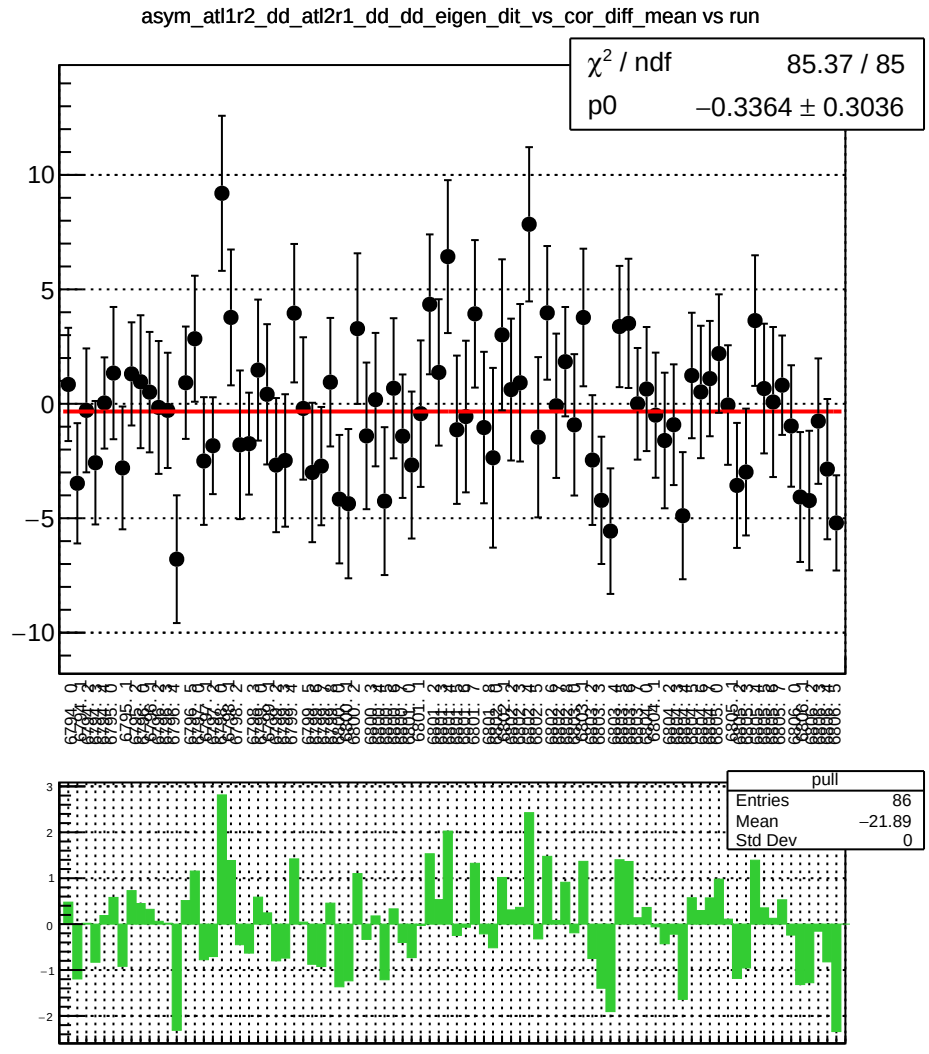

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3363 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

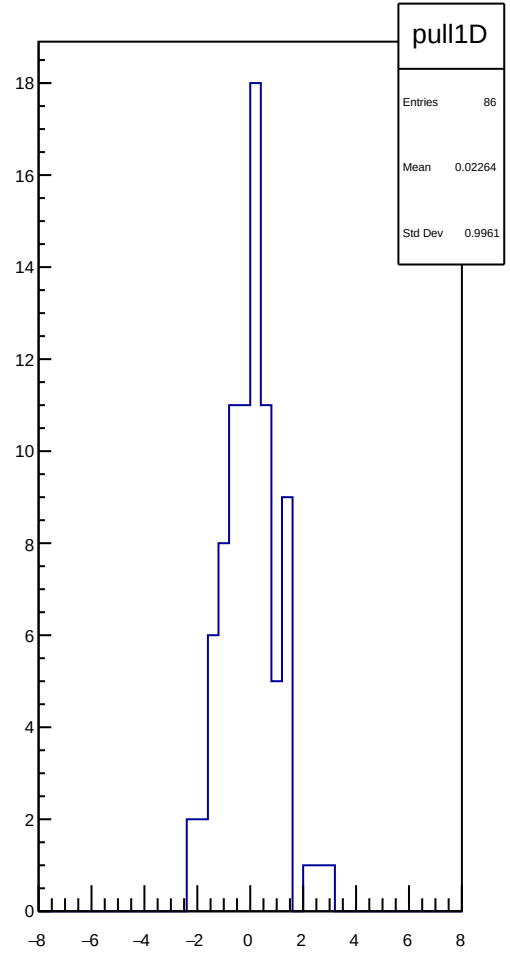

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

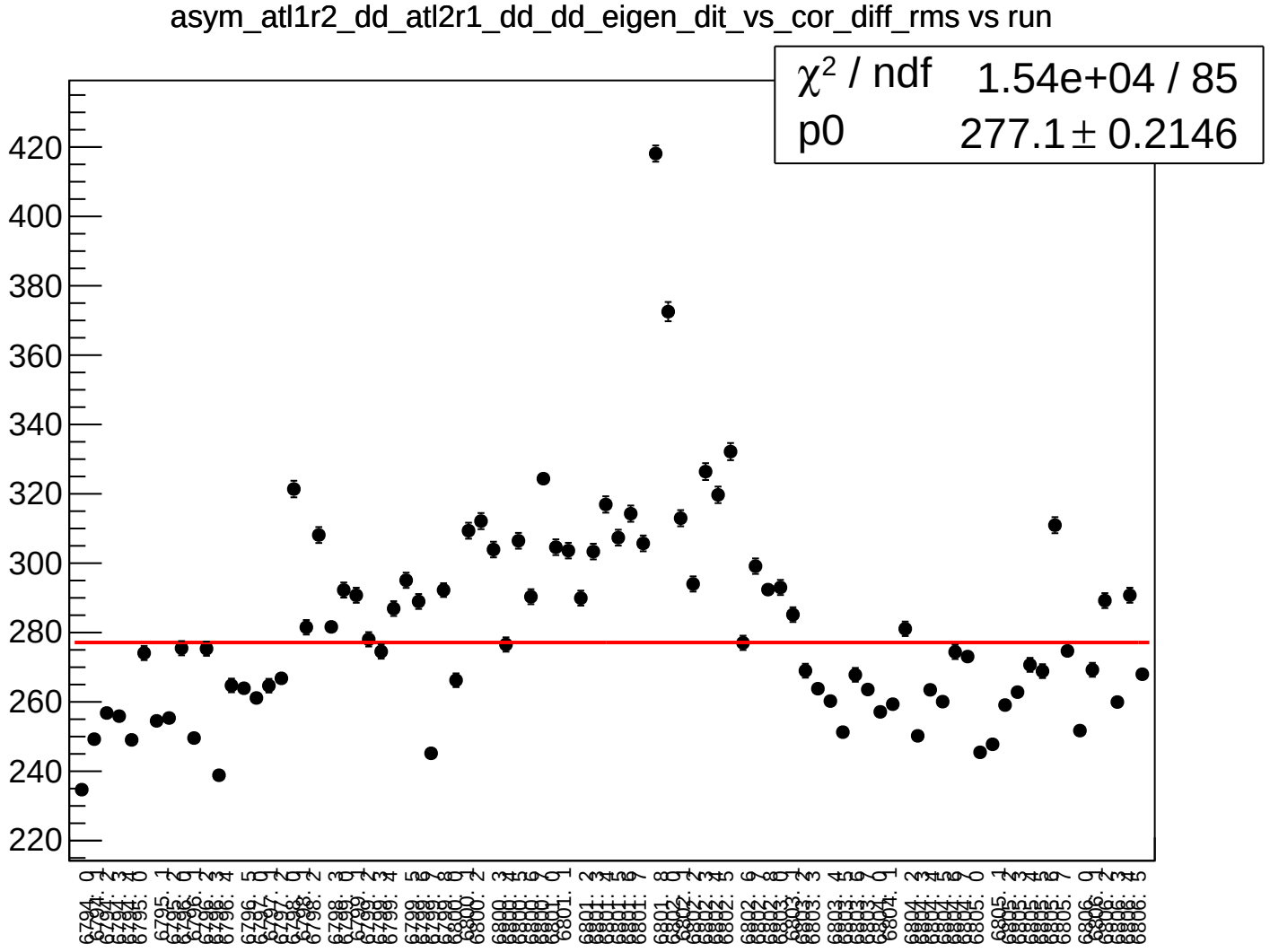

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.06 / 85
p0 −1.345e−06 ± 5.05e−06
pull
Entries 86
Mean −50.82
Std Dev 0

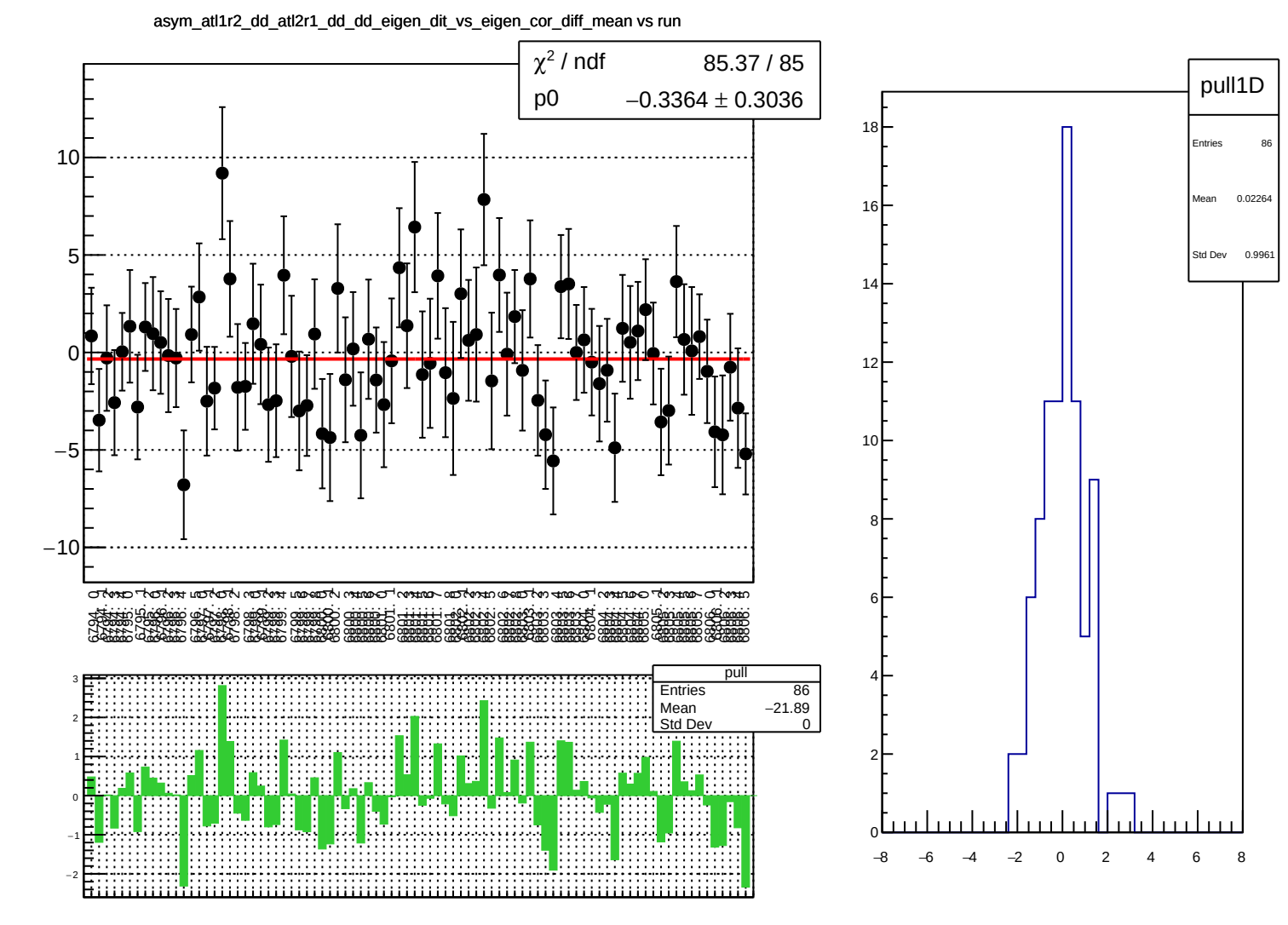

pull1D
Entries 86
Mean 0.02122
Std Dev 0.9884

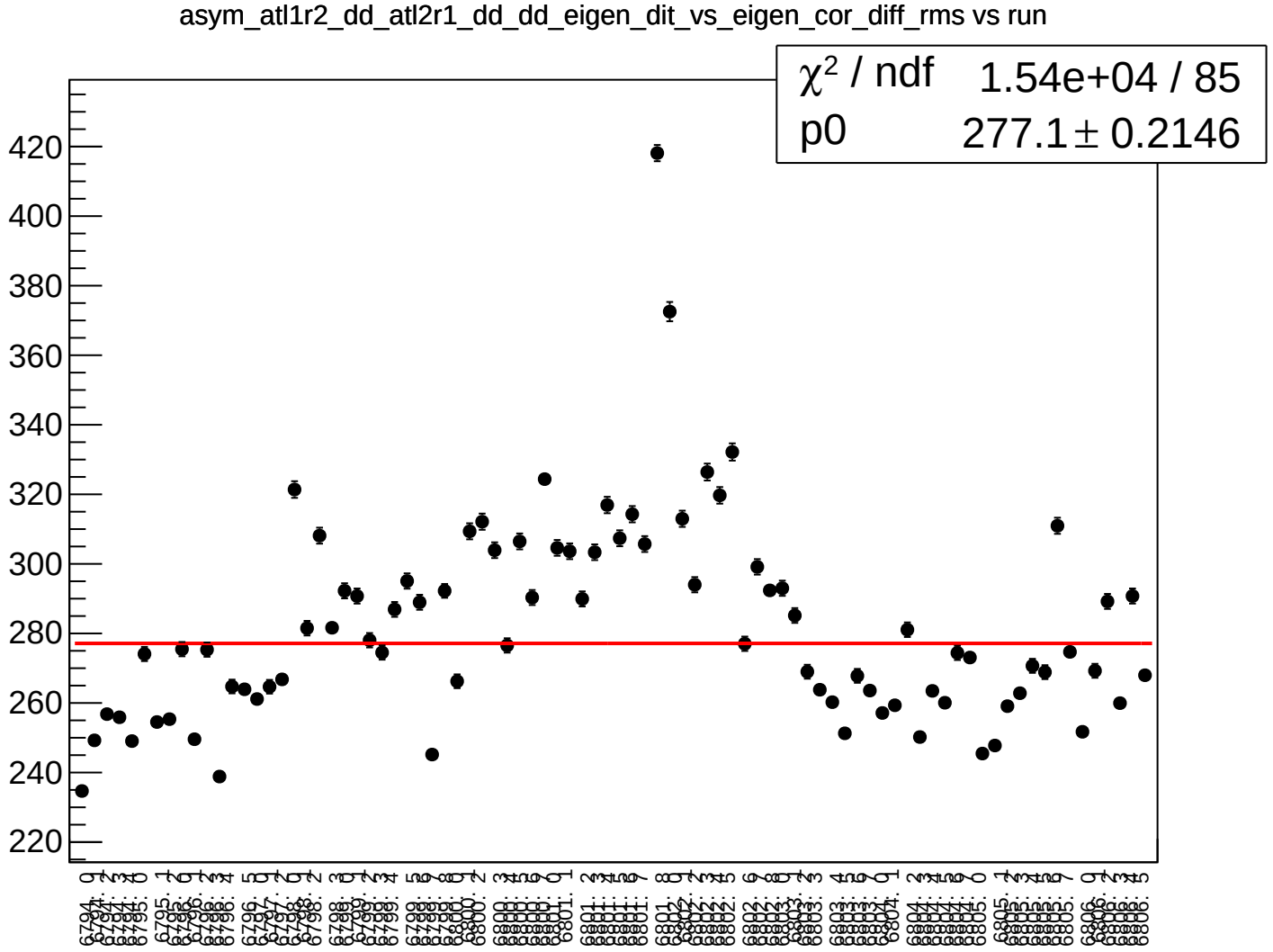

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9438 / 85
p0 0.004619 ± 3.571e−06
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

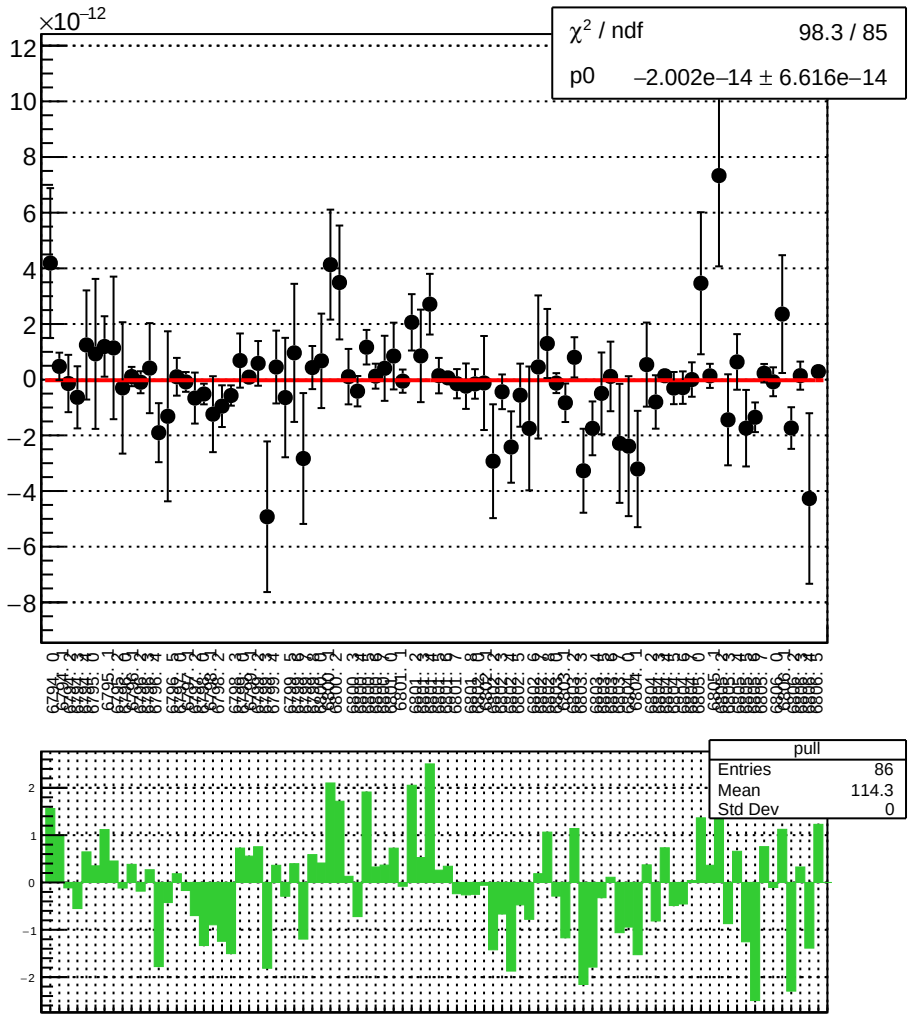

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0

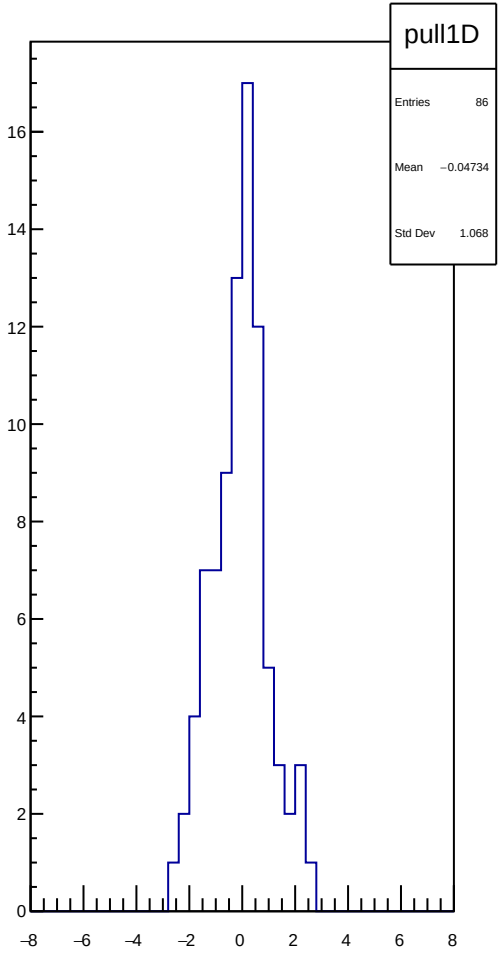

pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

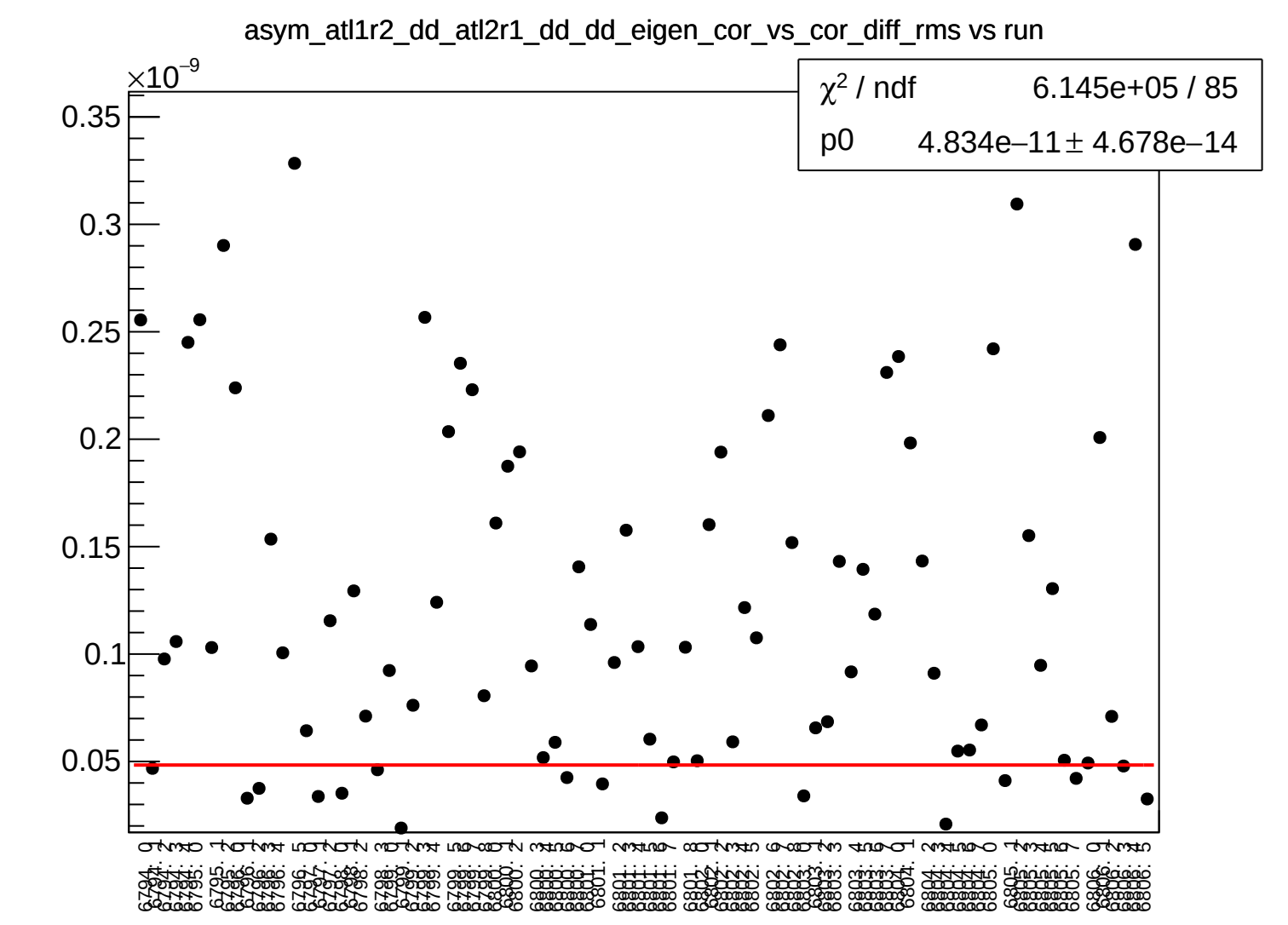

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

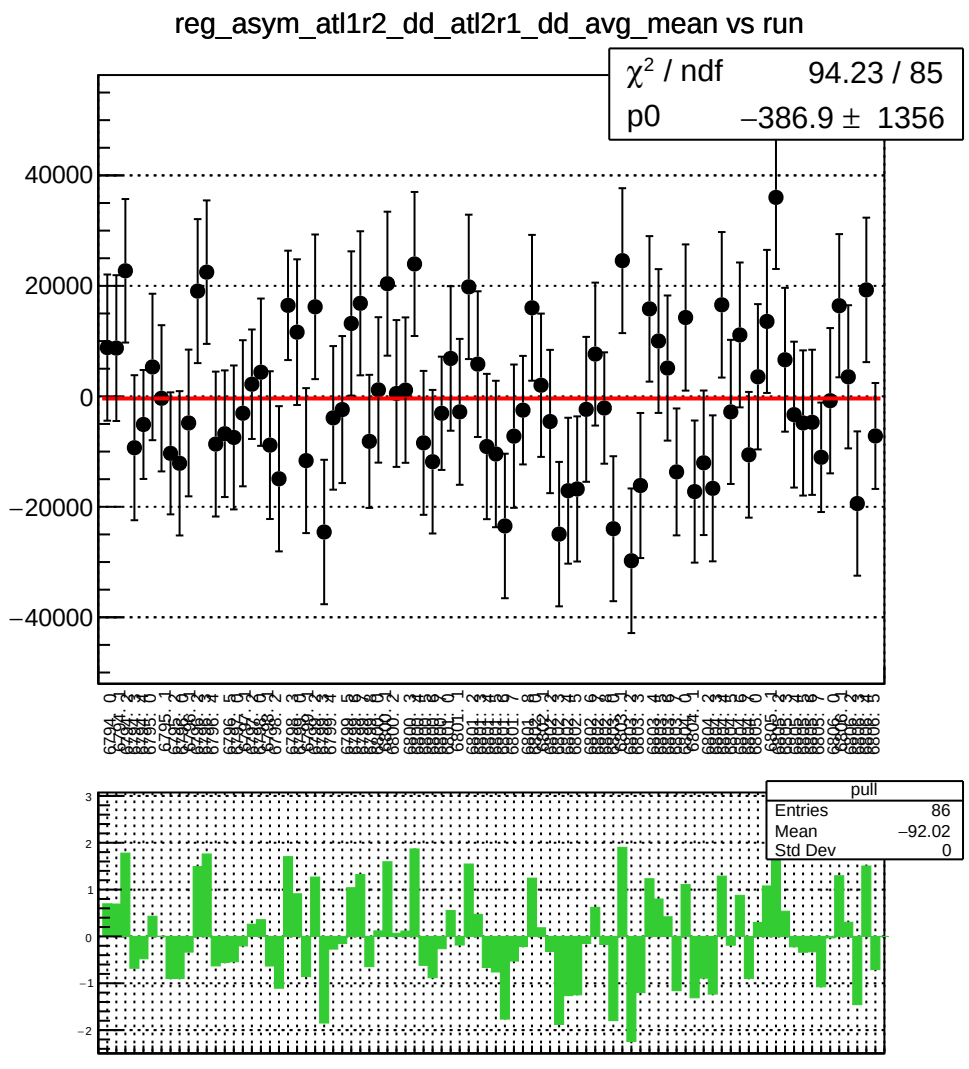

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.37 / 85
p0 −0.3364 ± 0.3036
pull
Entries 86
Mean −21.89
Std Dev 0
pull1D
Entries 86
Mean 0.02264
Std Dev 0.9961

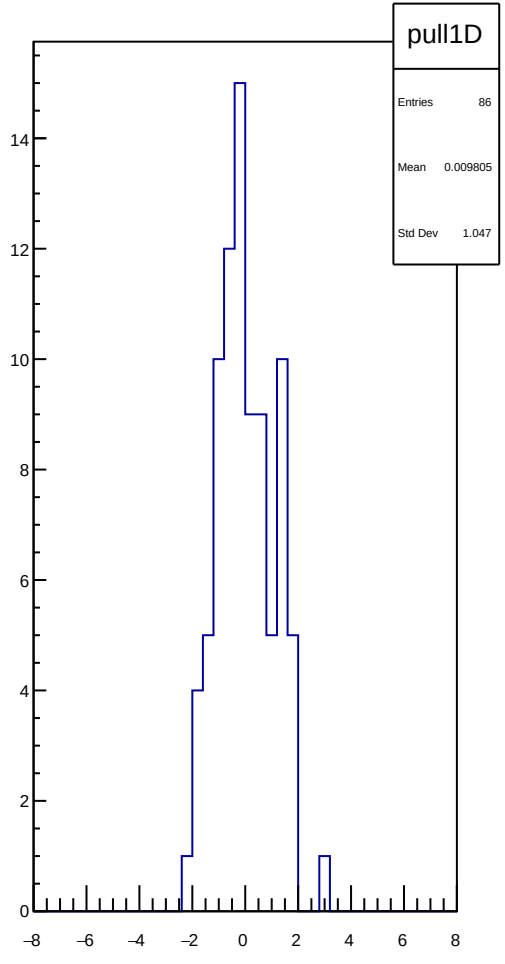

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.54e+04 / 85
p0 277.1 ± 0.2146
420
400
380
360
340
320
300
280
260
240
220

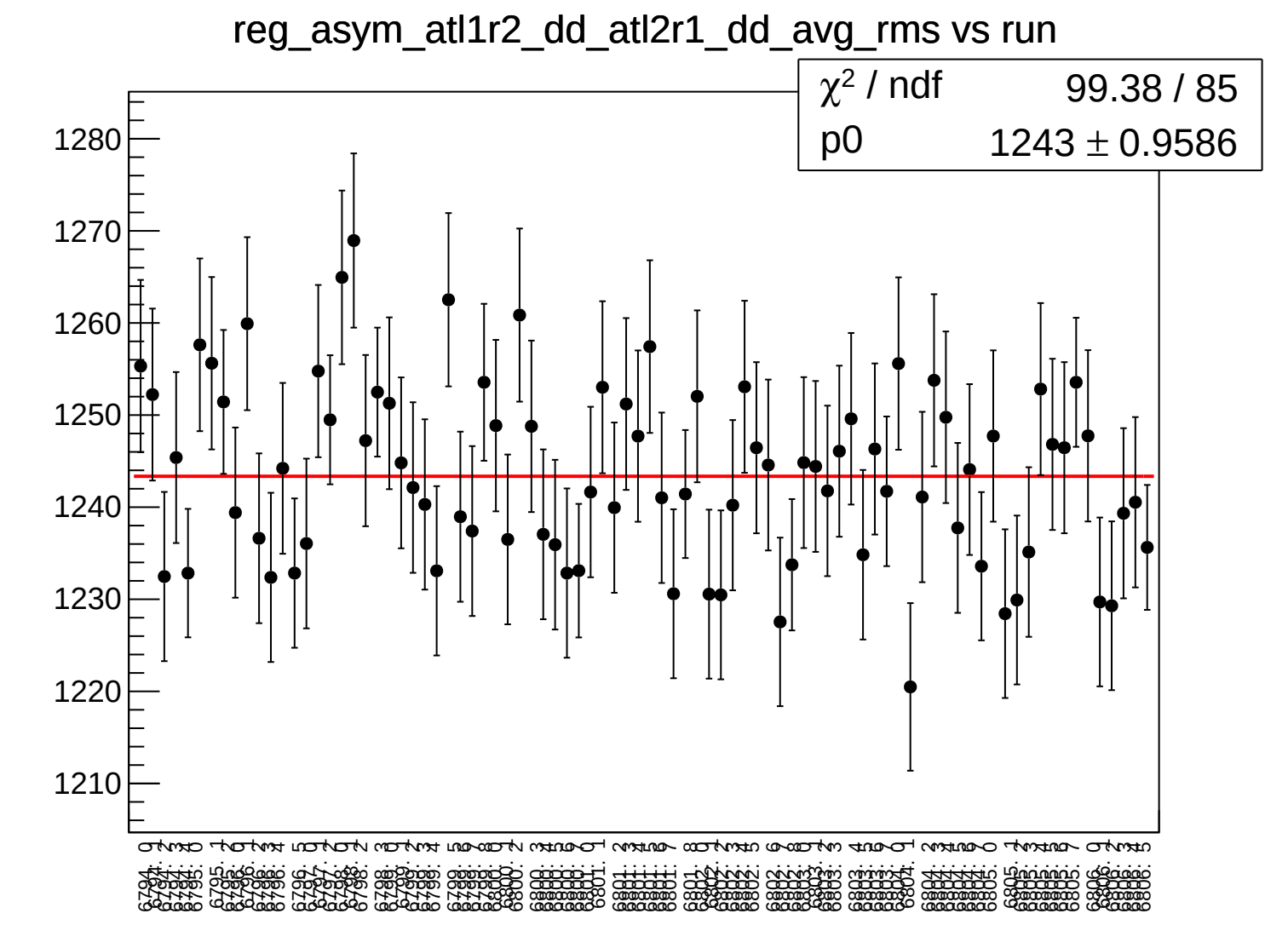

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.3 / 85
p0 −2.002e−14 ± 6.616e−14
pull
Entries 86
Mean 114.3
Std Dev 0

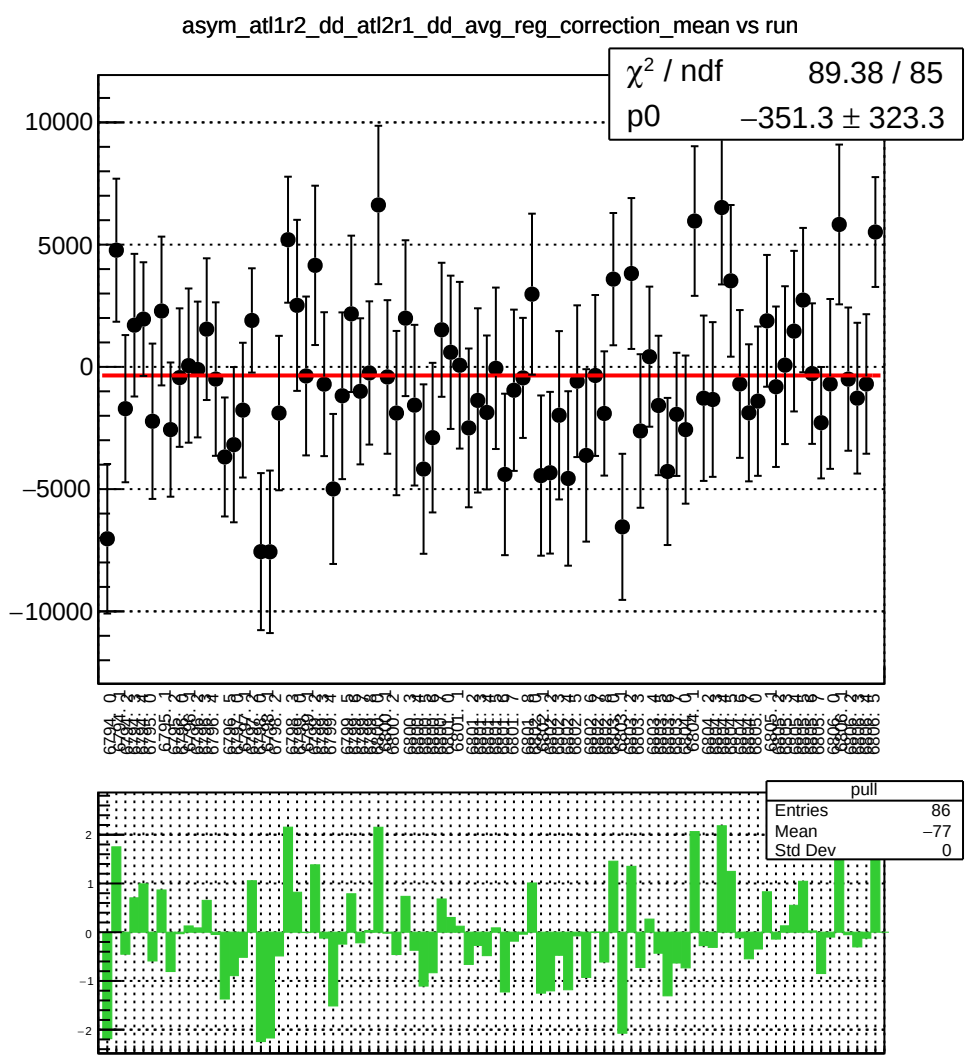

pull1D
Entries 86
Mean −0.04734
Std Dev 1.068

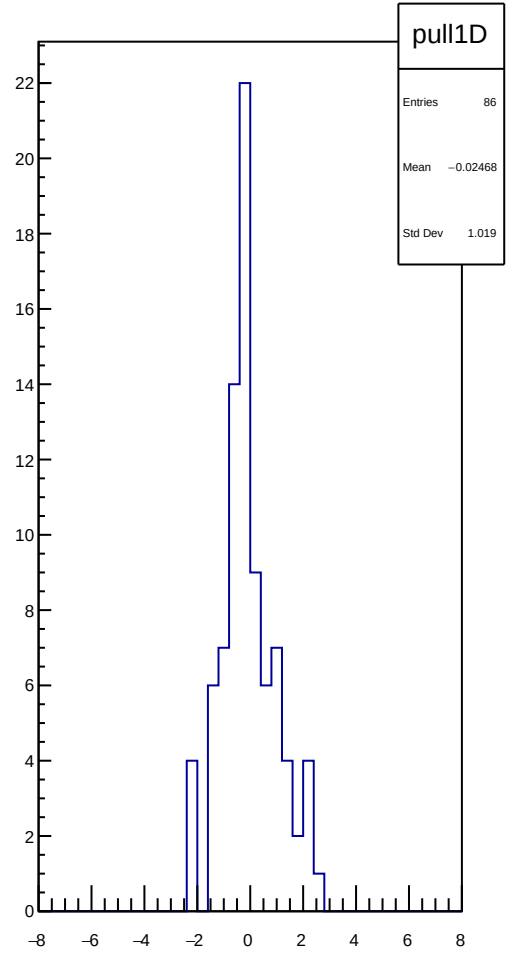

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.145e+05 / 85
p0 4.834e−11 ± 4.678e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

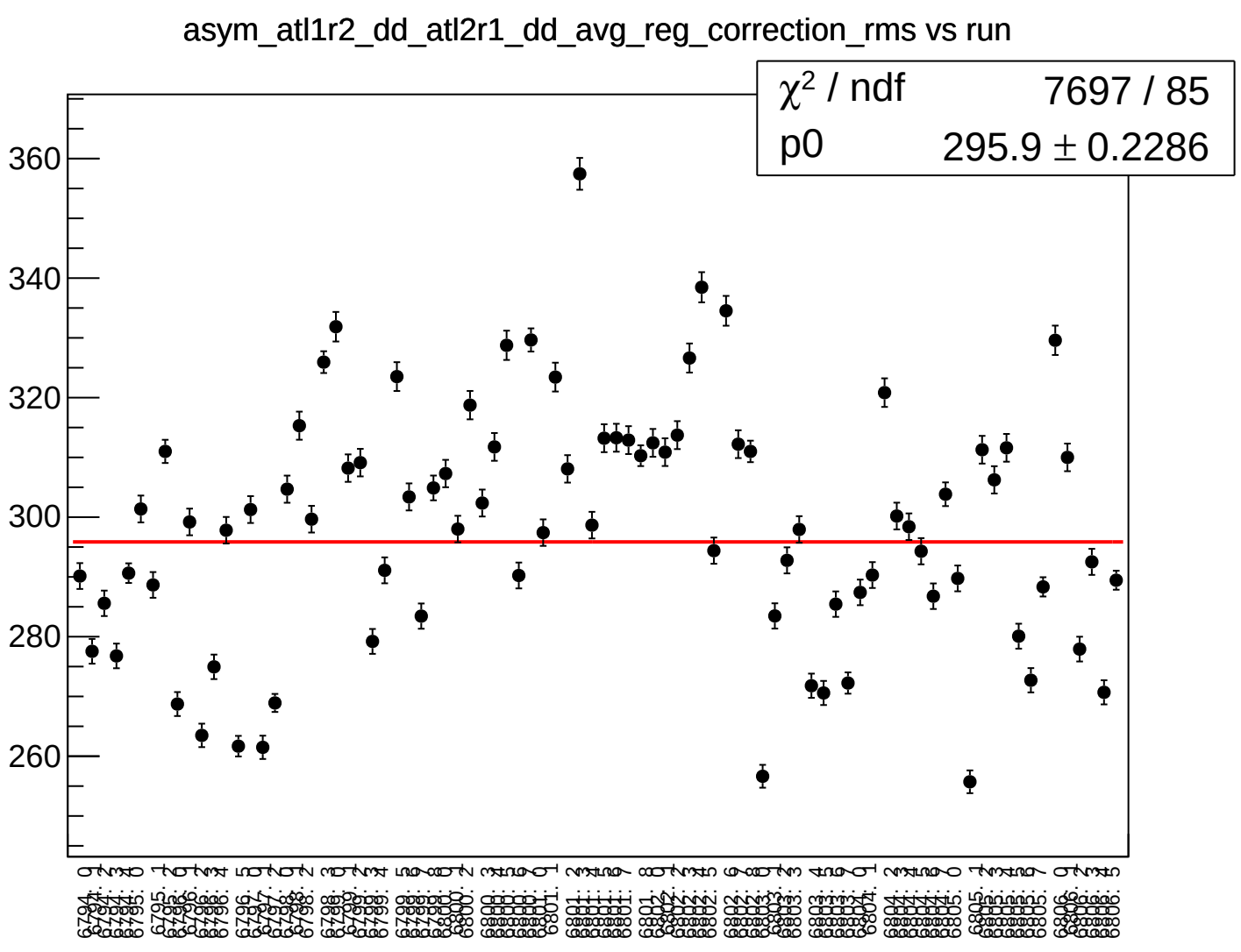

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.23 / 85
p0 −386.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.02
Std Dev 0
3
2
1
0
−1
−2

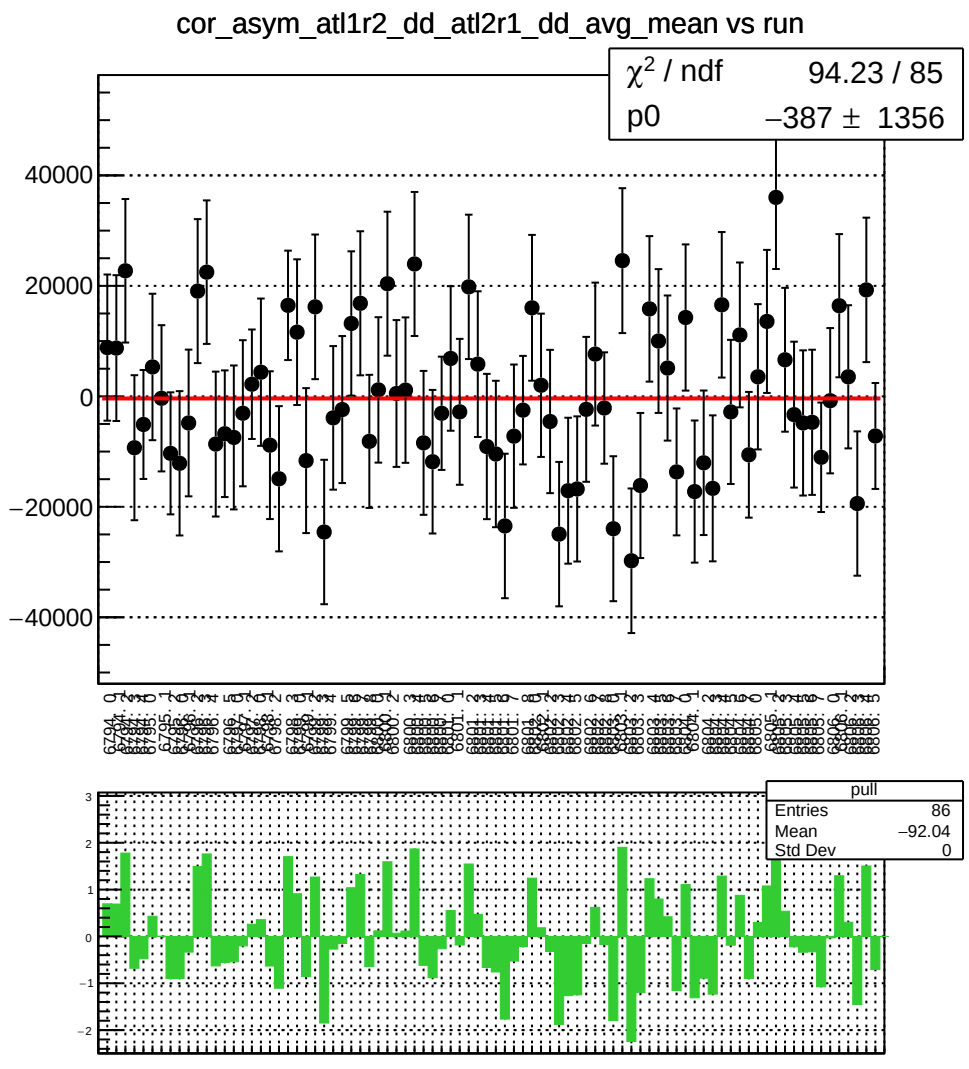

pull1D
Entries 86
Mean 0.009805
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

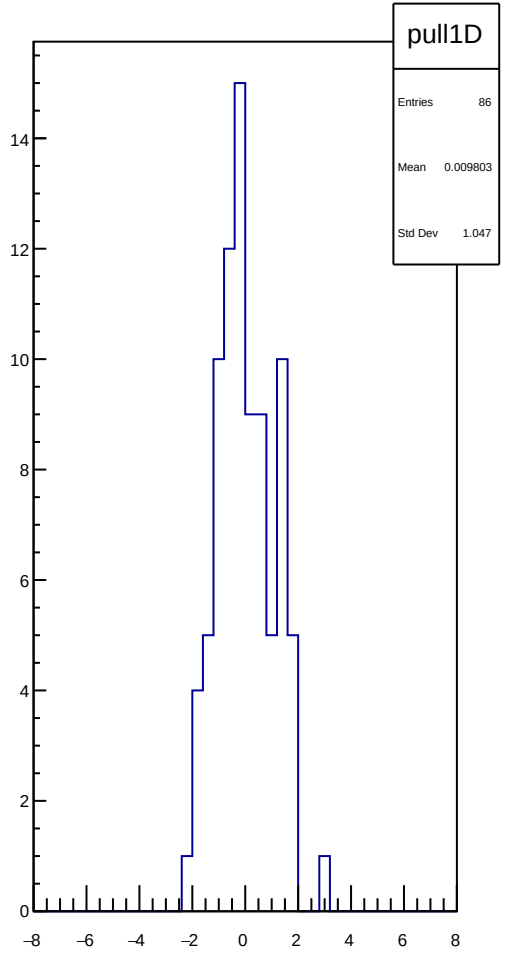

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

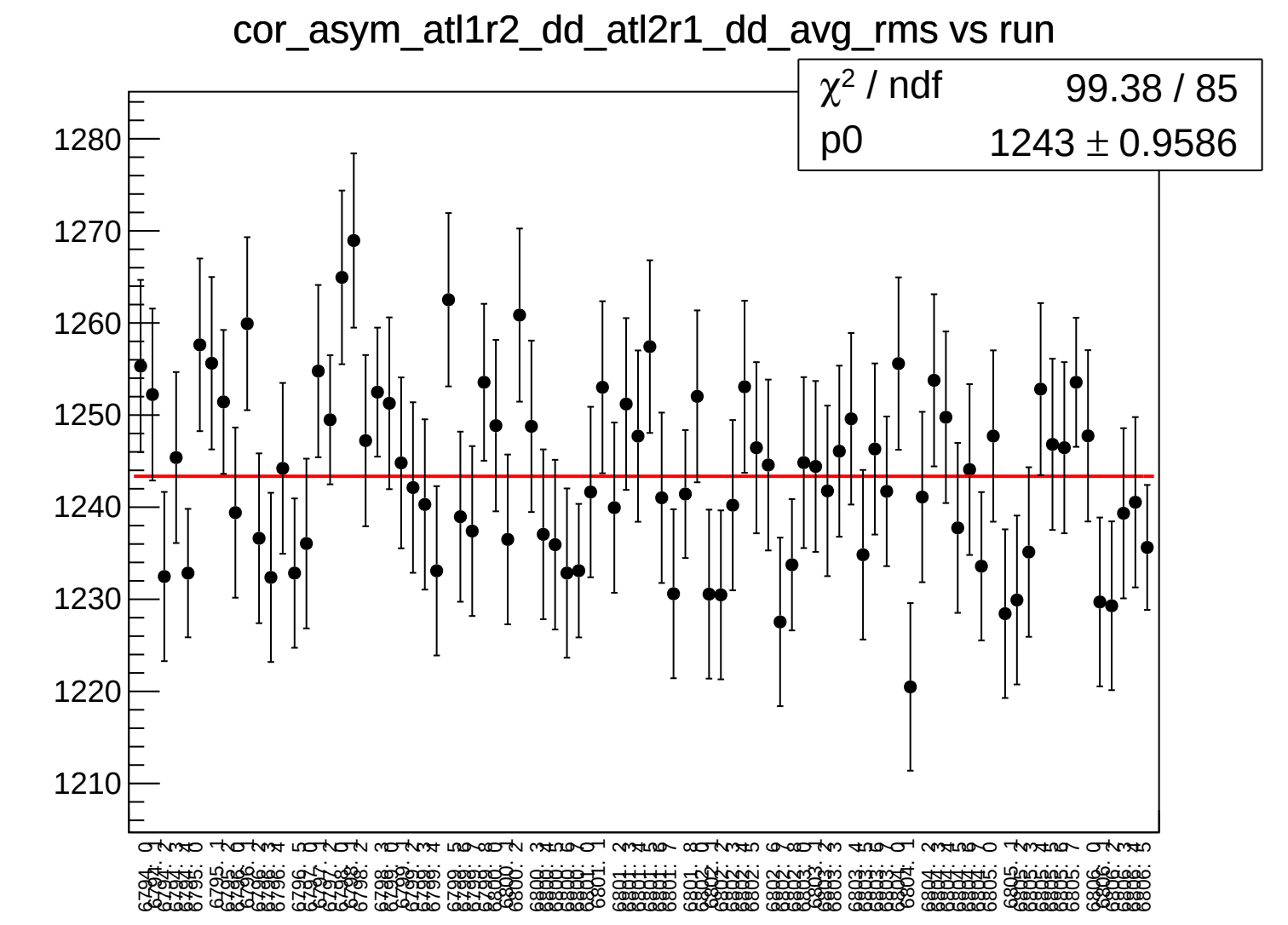

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 89.38 / 85
p0 −351.3 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

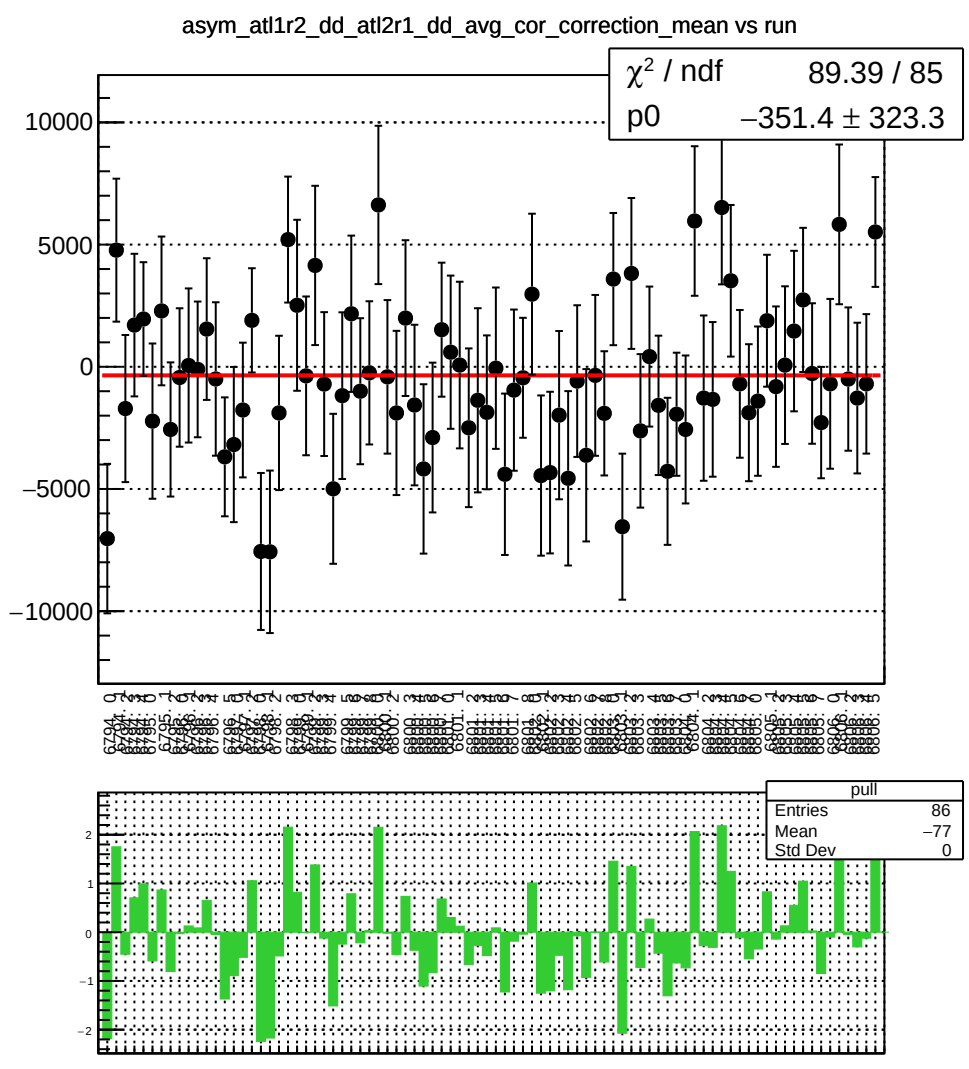

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

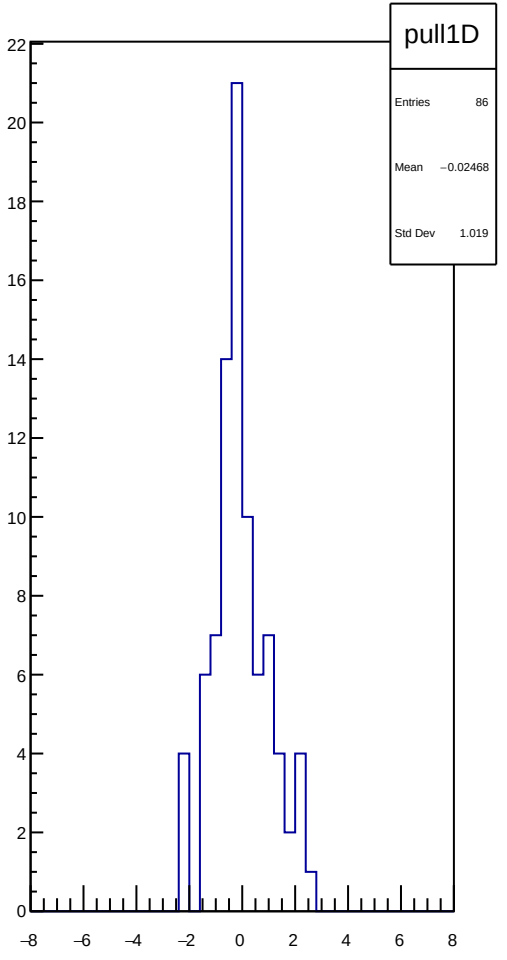

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 7697 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

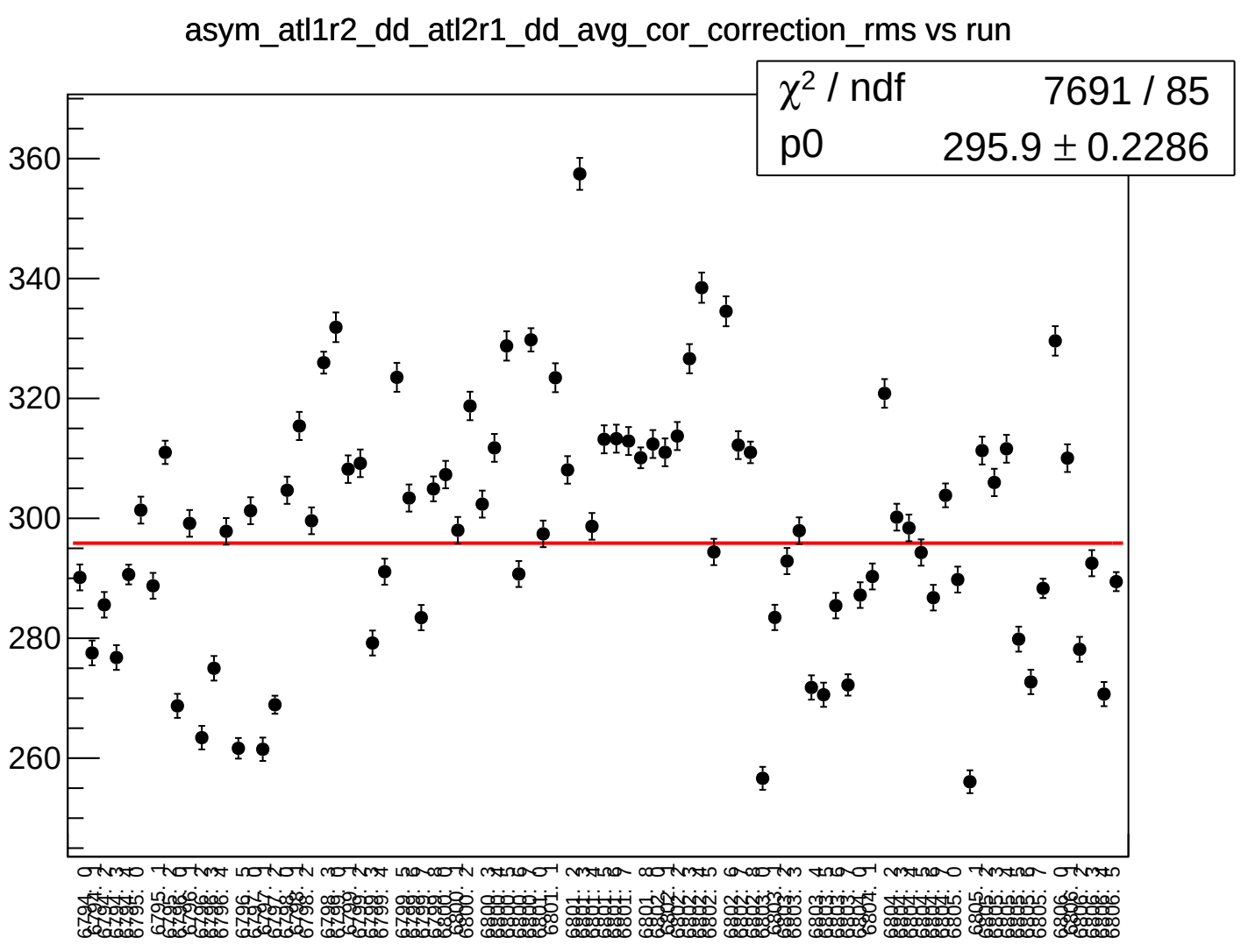

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.23 / 85
p0 −387 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.04
Std Dev 0
3
2
1
0
−1
−2

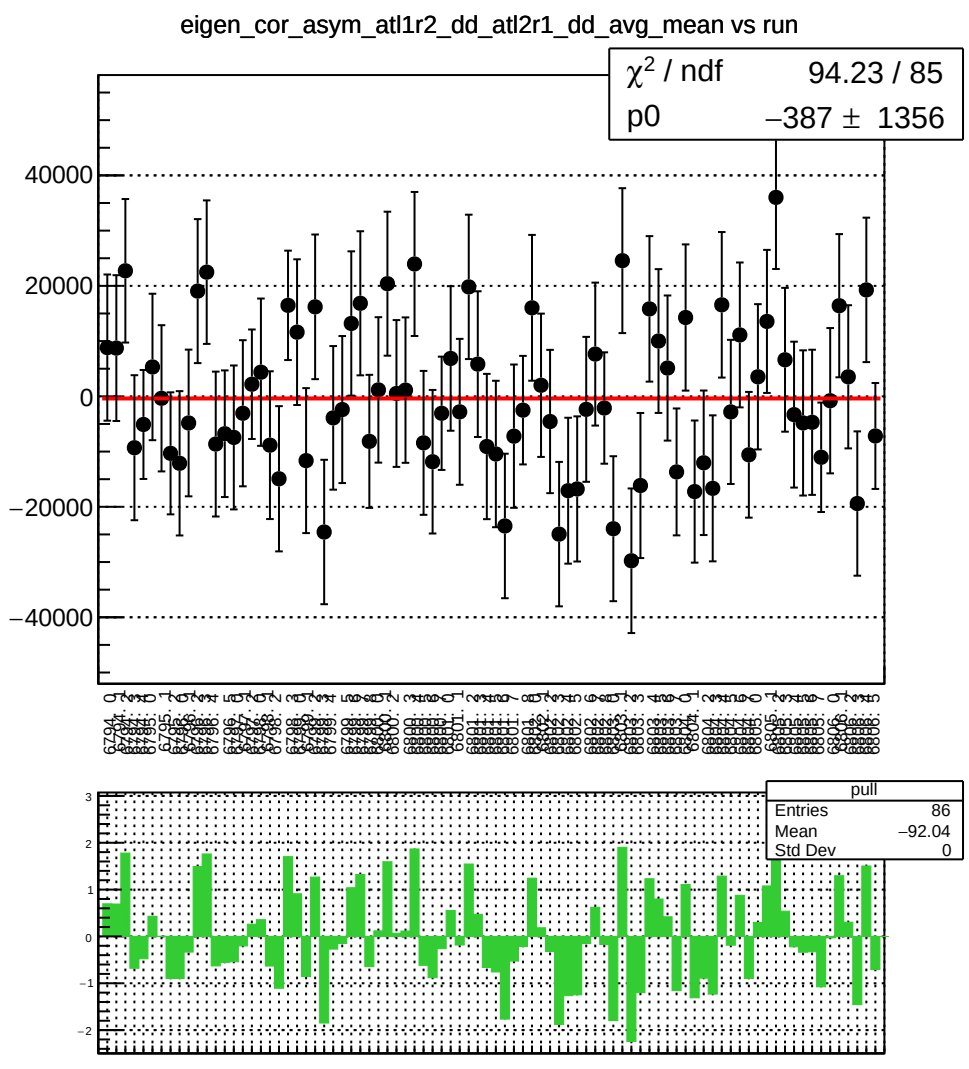

pull1D
Entries 86
Mean 0.009803
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

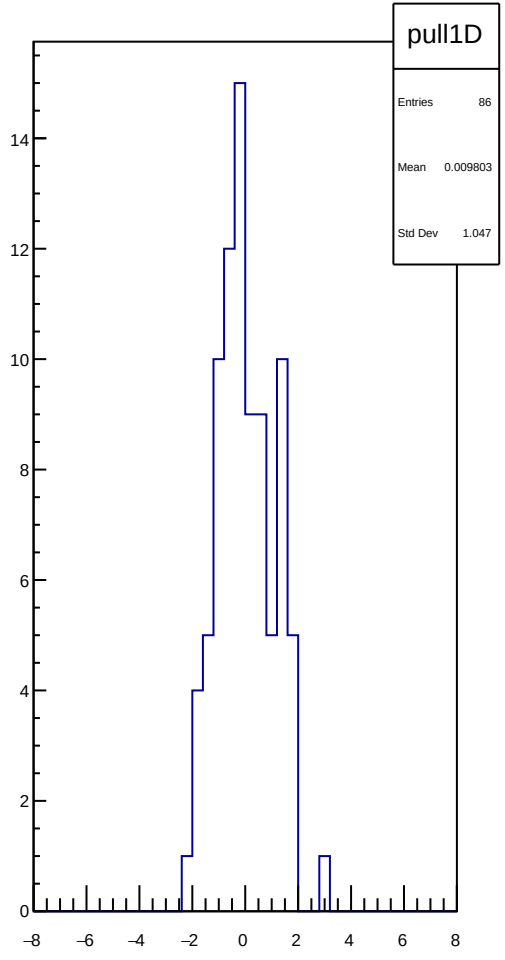

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

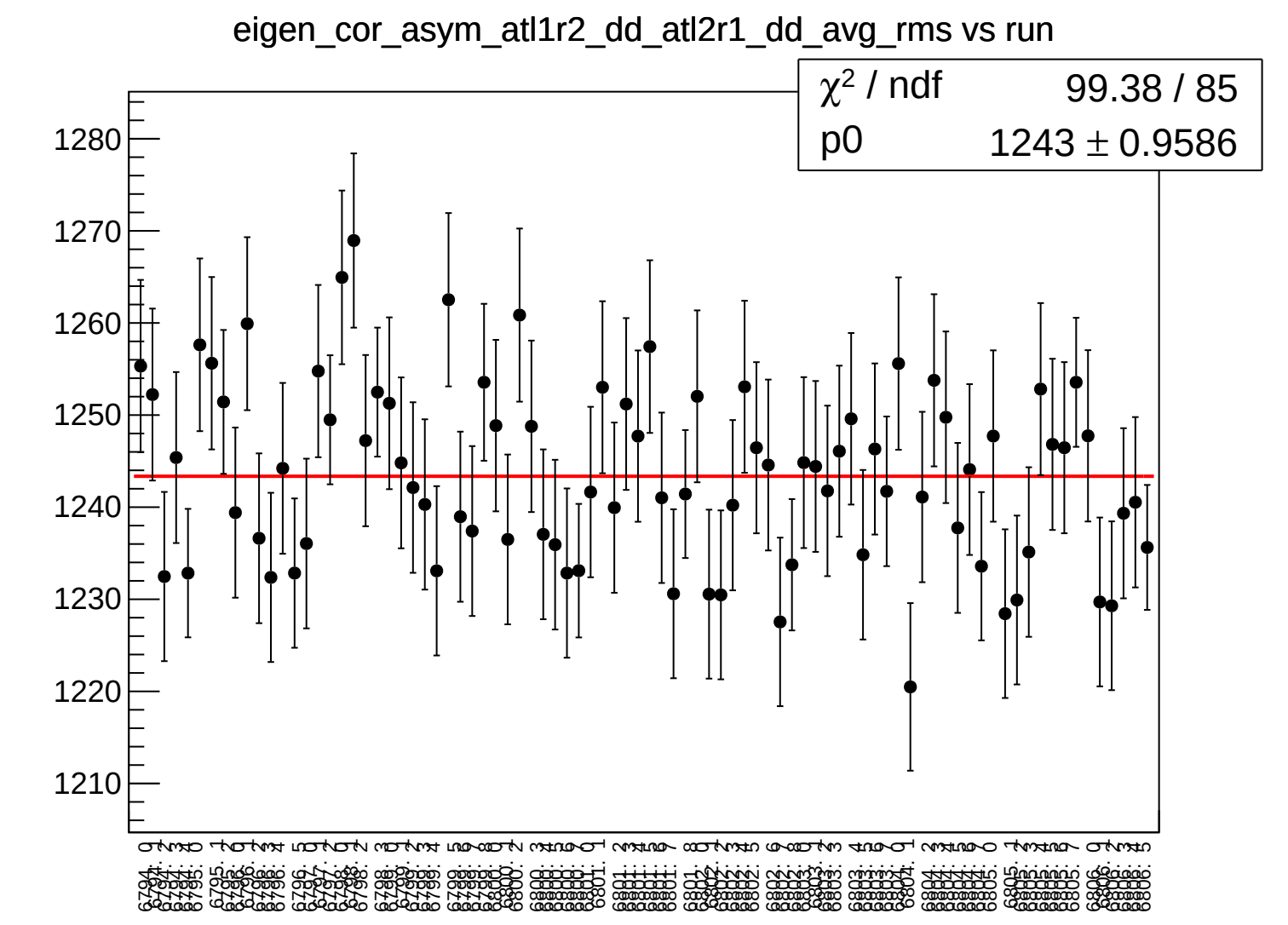

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 89.39 / 85
p0 −351.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

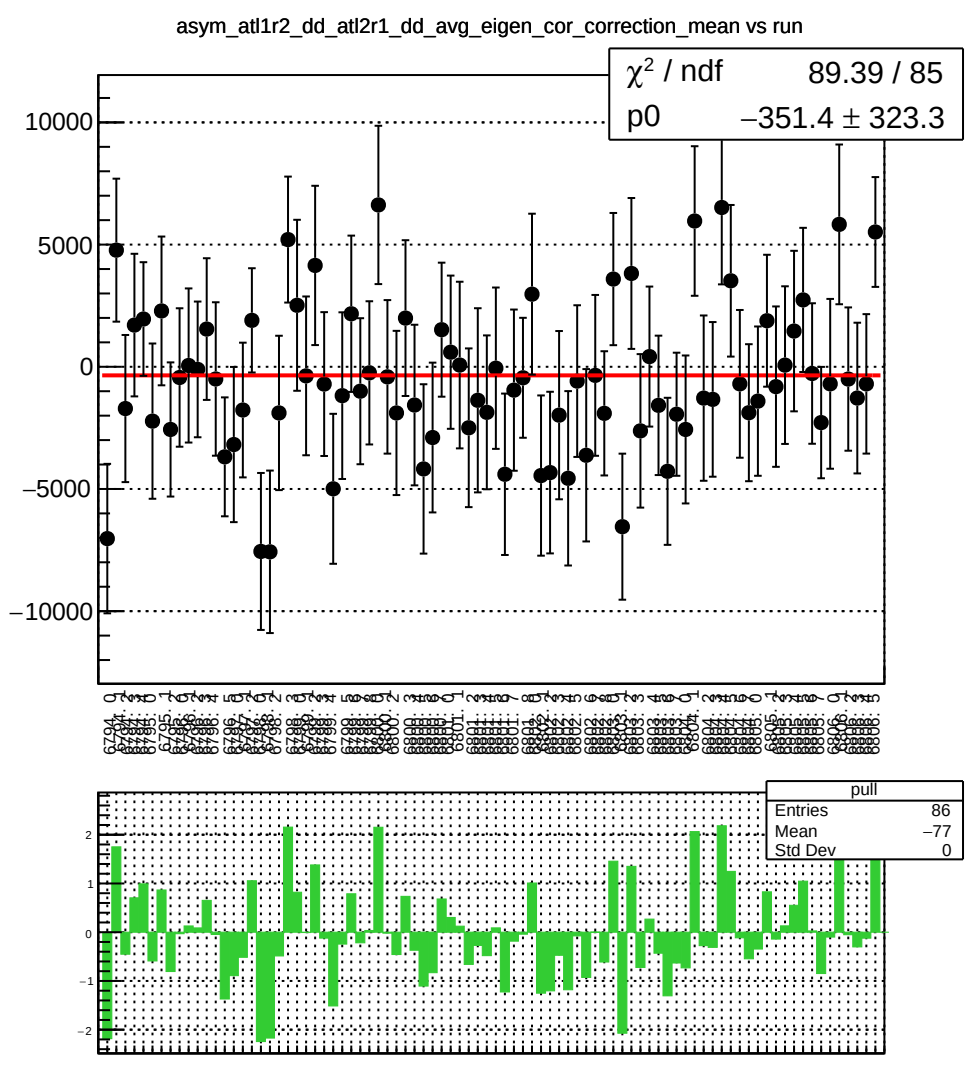

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

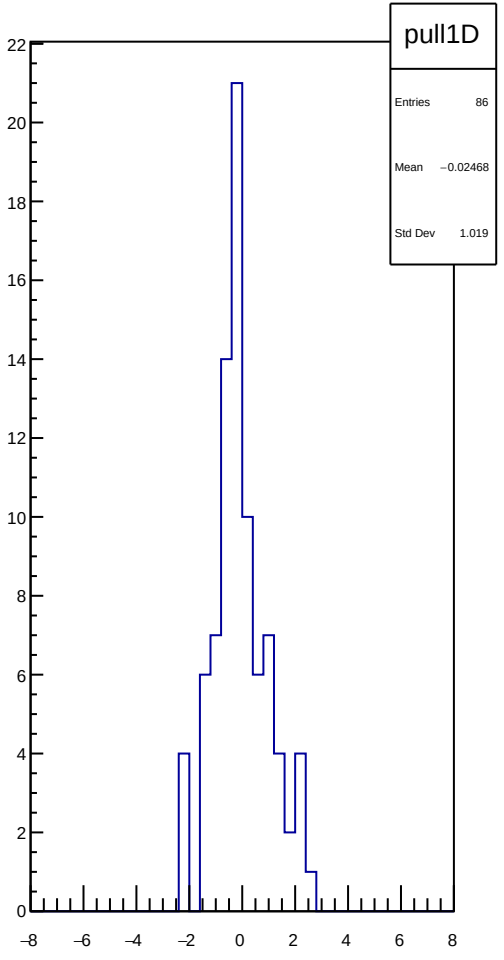

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 7691 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

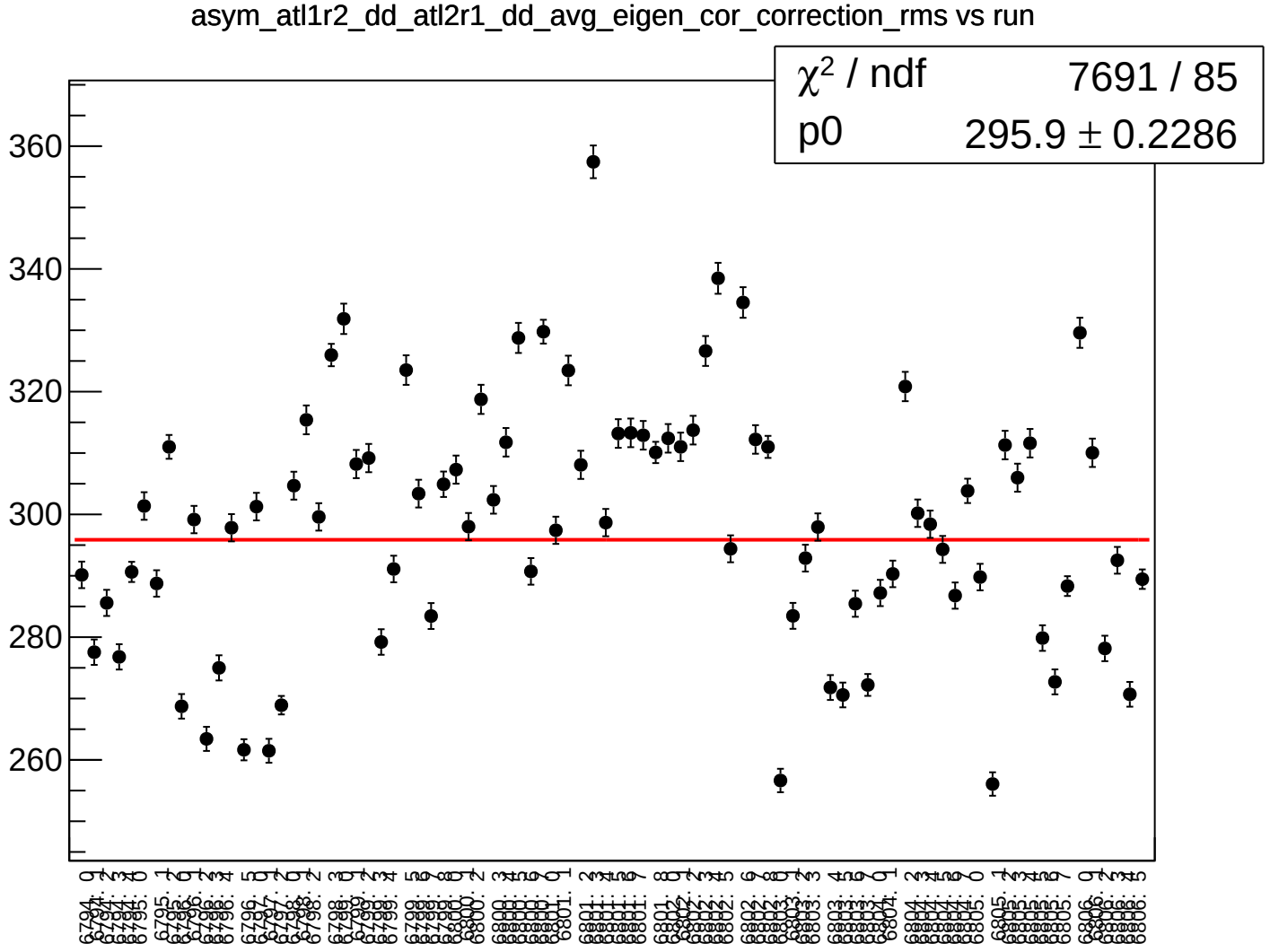

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.23 / 85
p0 −387 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −92.04
Std Dev 0
3
2
1
0
−1
−2

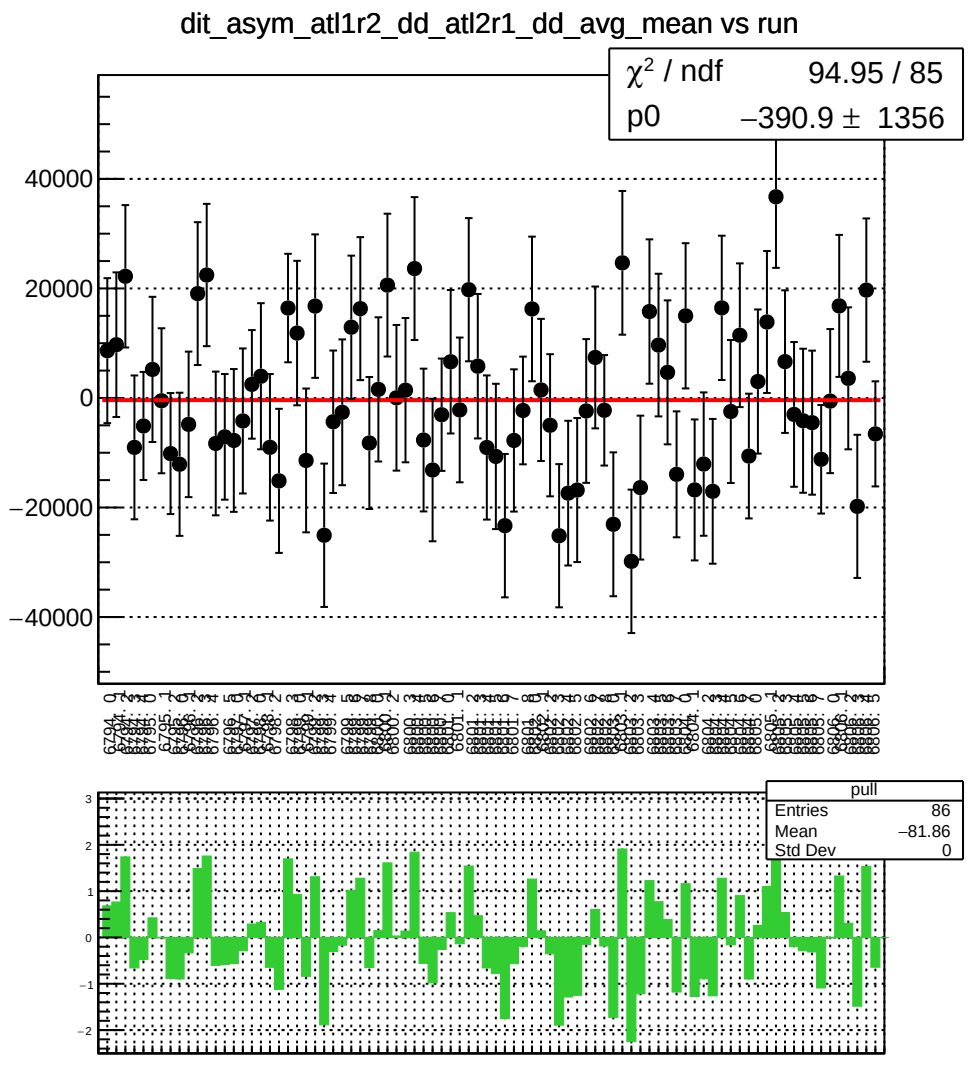

pull1D
Entries 86
Mean 0.009803
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

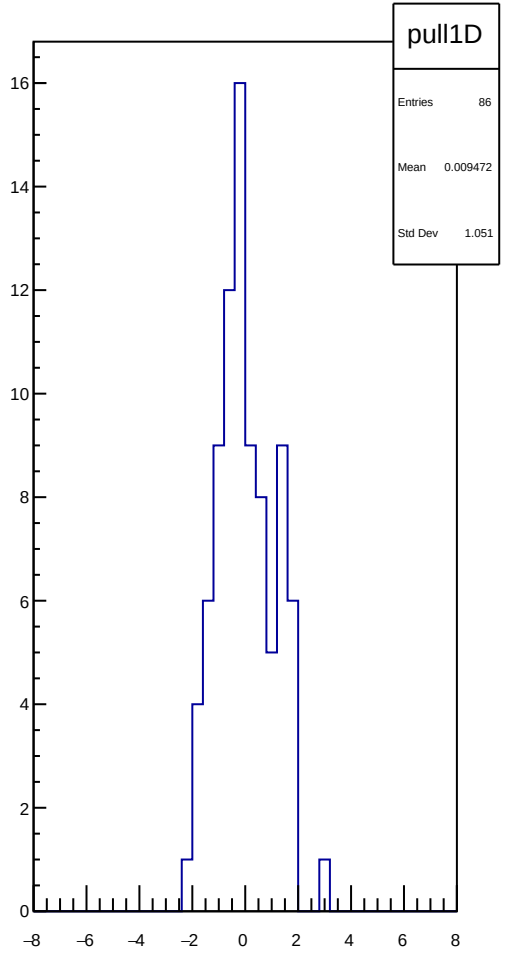

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 99.38 / 85
p0 1243 ± 0.9586
1280
1270
1260
1250
1240
1230
1220
1210

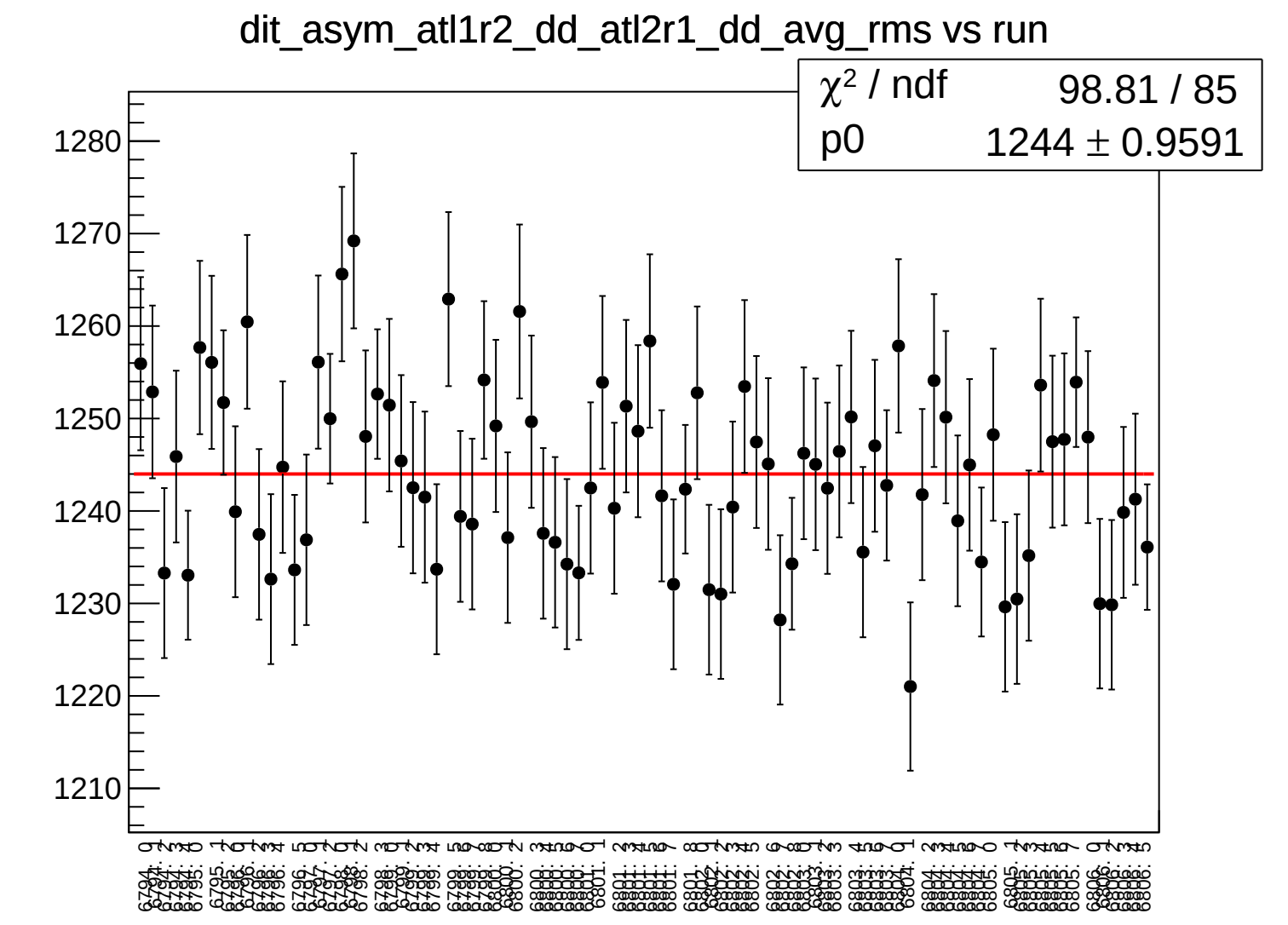

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.39 / 85
p0 −351.4 ± 323.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −77
Std Dev 0
2
1
0
−1
−2

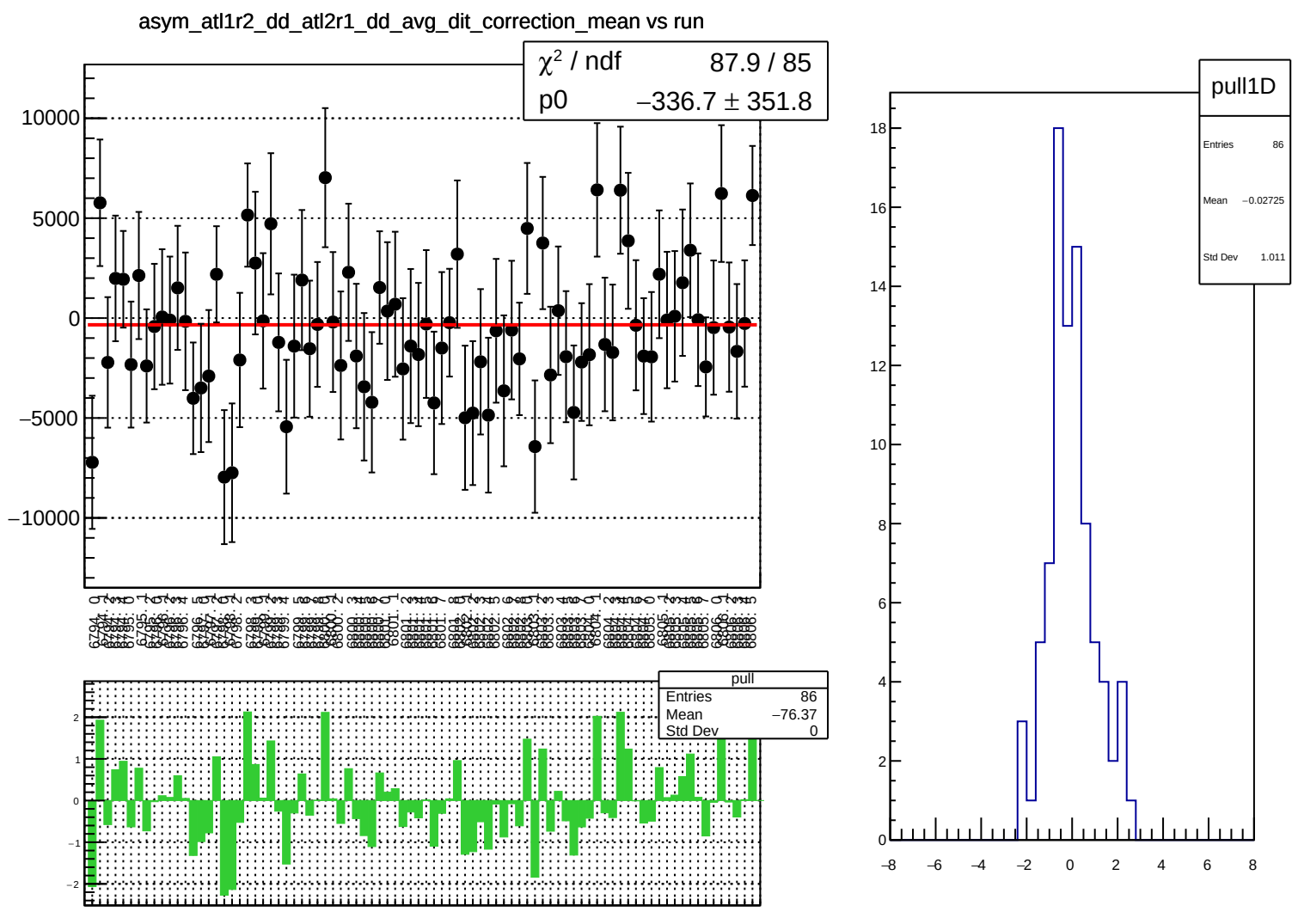

pull1D
Entries 86
Mean −0.02468
Std Dev 1.019
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

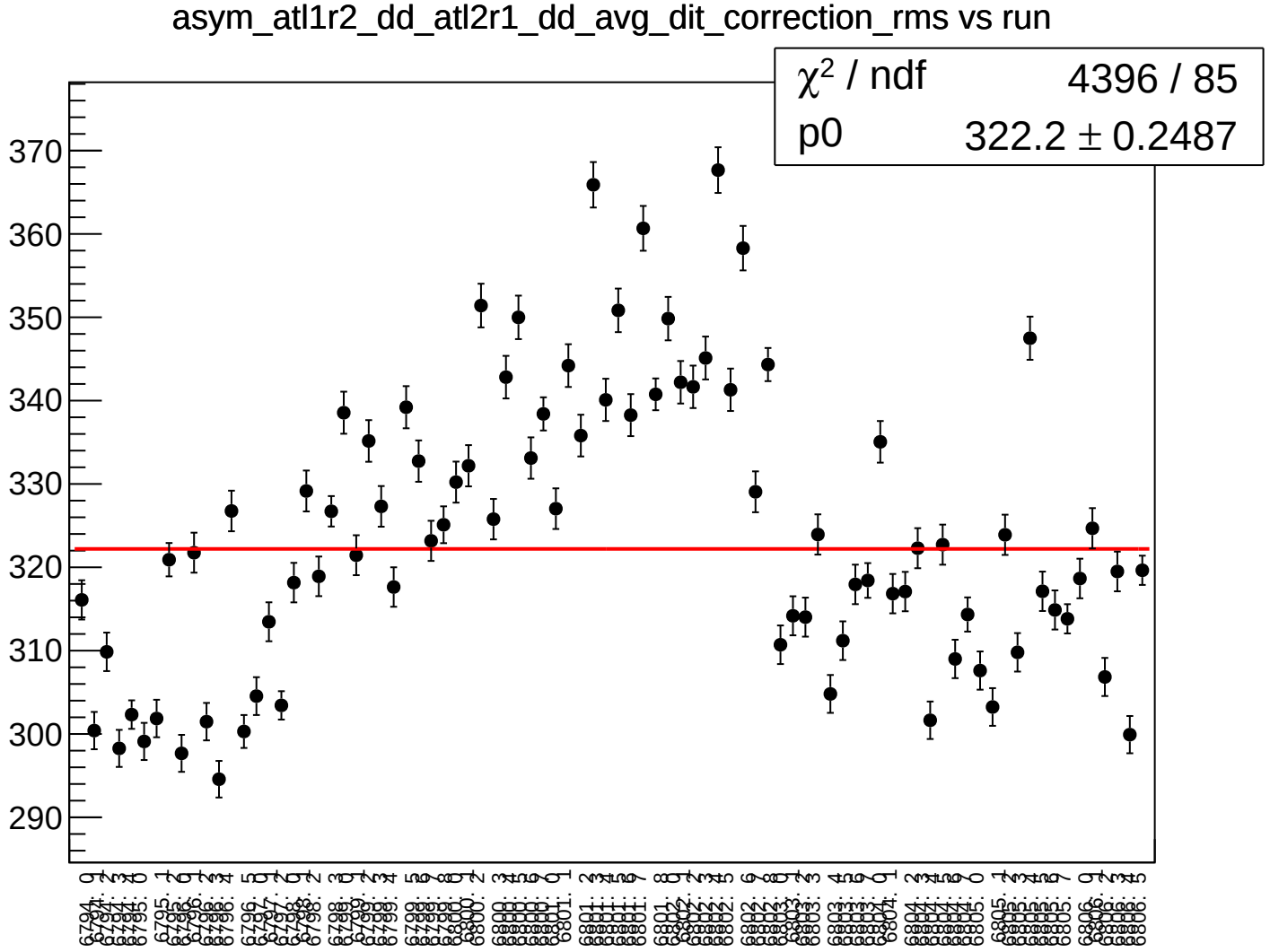

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7691 / 85
p0 295.9 ± 0.2286
360
340
320
300
280
260

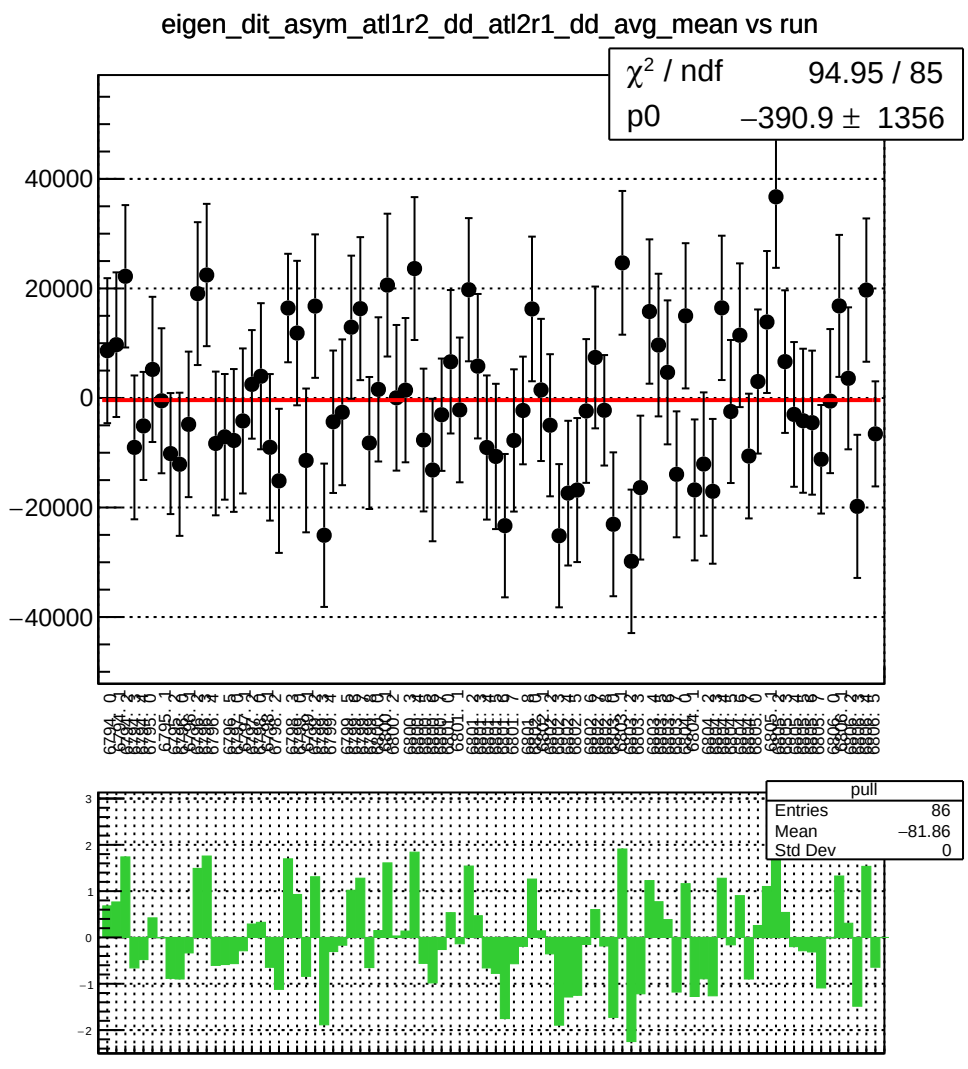

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.95 / 85
p0 −390.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2

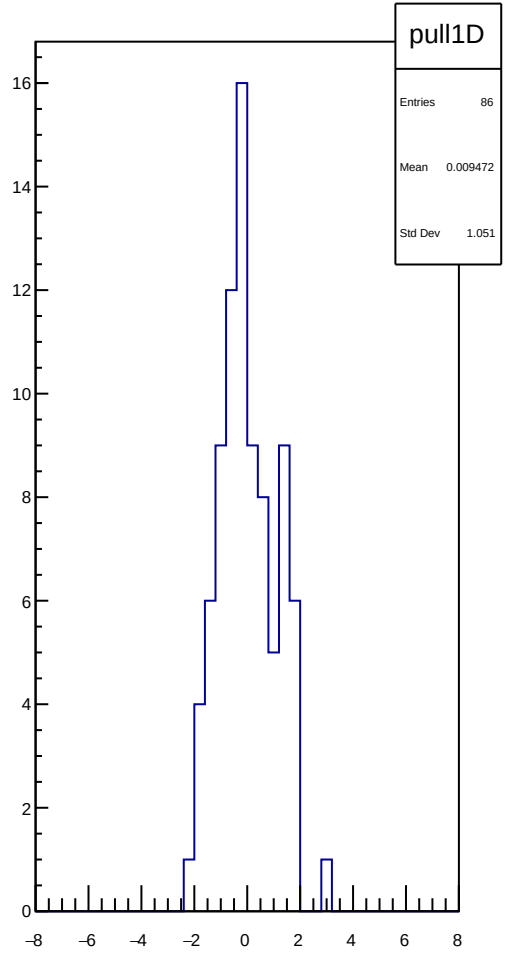

pull1D
Entries 86
Mean 0.009472
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

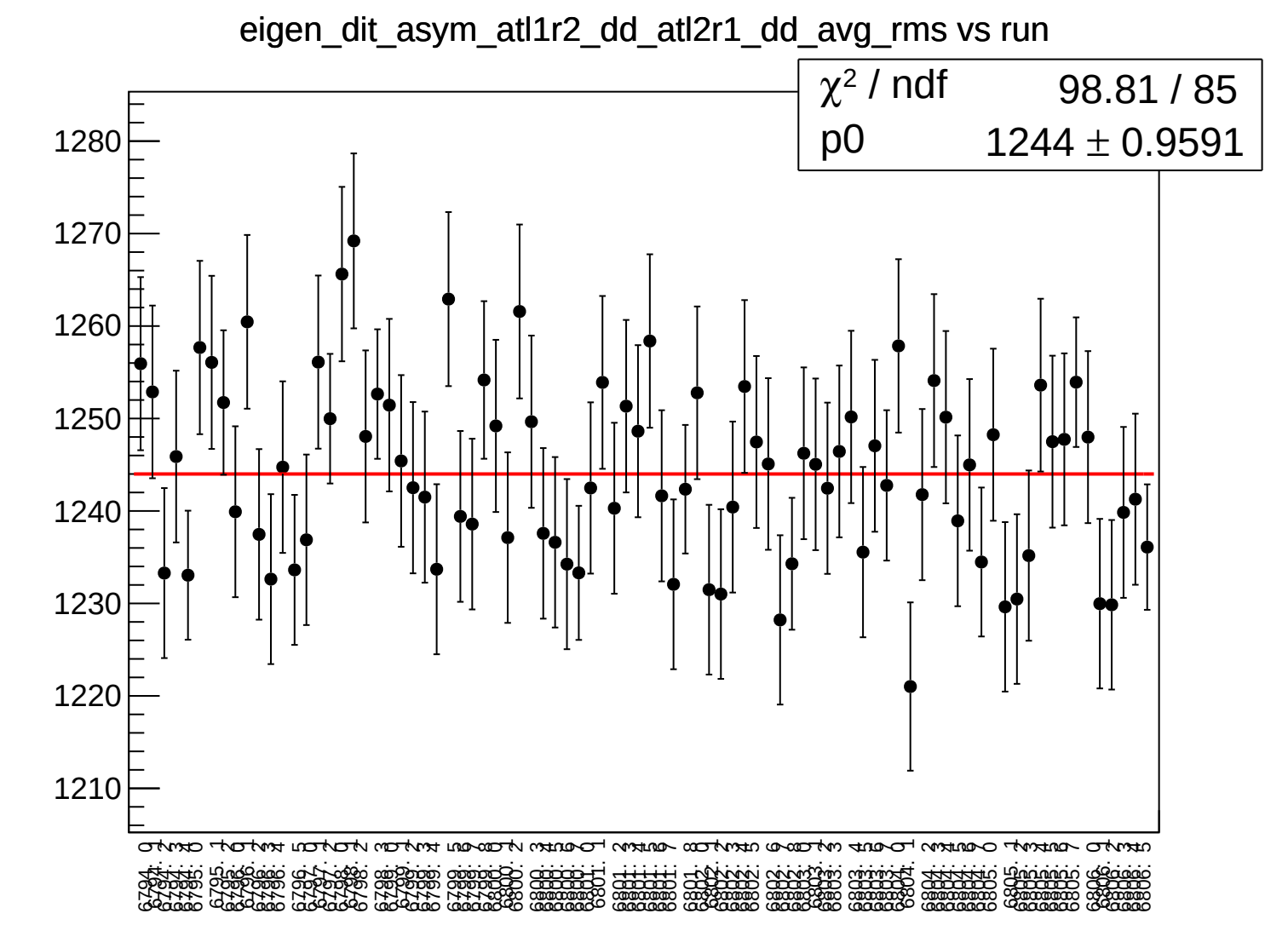

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 98.81 / 85
p0 1244 ± 0.9591
1280
1270
1260
1250
1240
1230
1220
1210

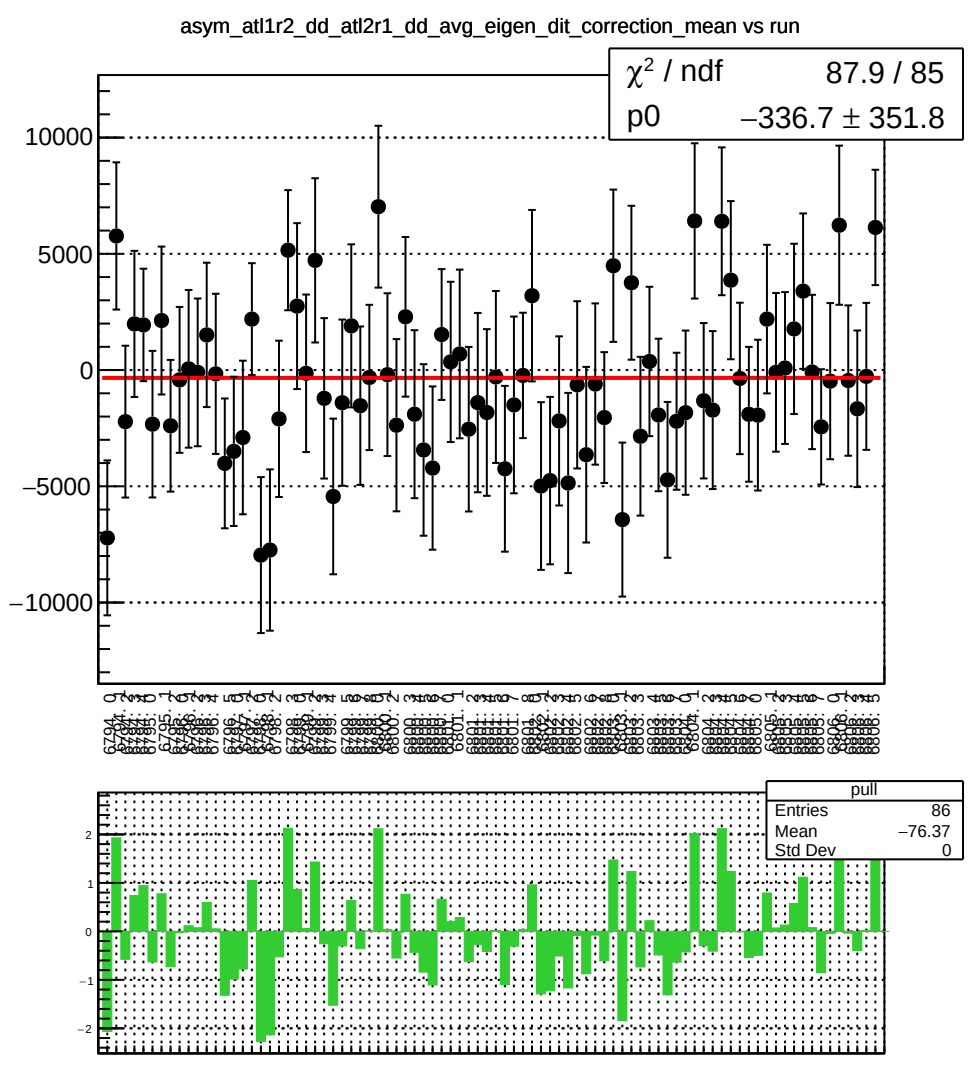

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 87.9 / 85
p0 −336.7 ± 351.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −76.37
Std Dev 0
pull1D
Entries 86
Mean −0.02725
Std Dev 1.011

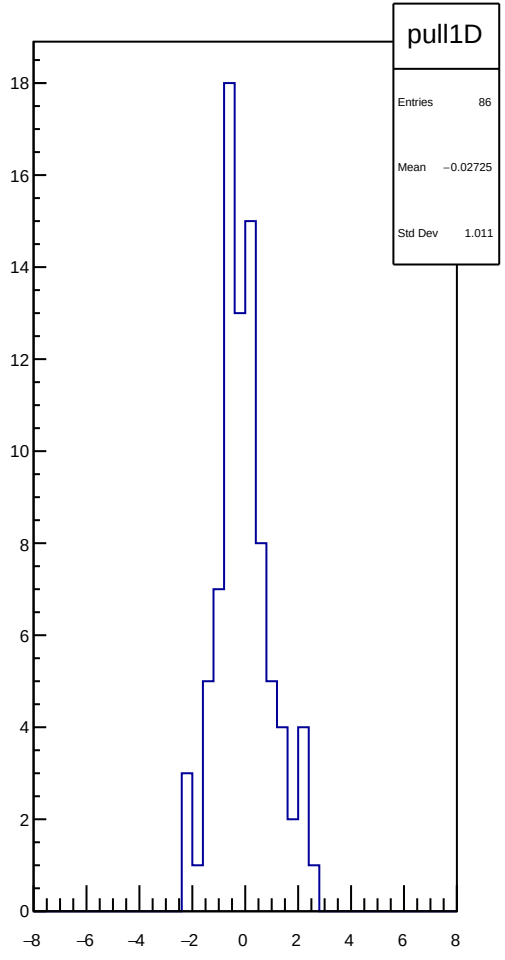

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 4396 / 85
p0 322.2 ± 0.2487
370
360
350
340
330
320
310
300
290

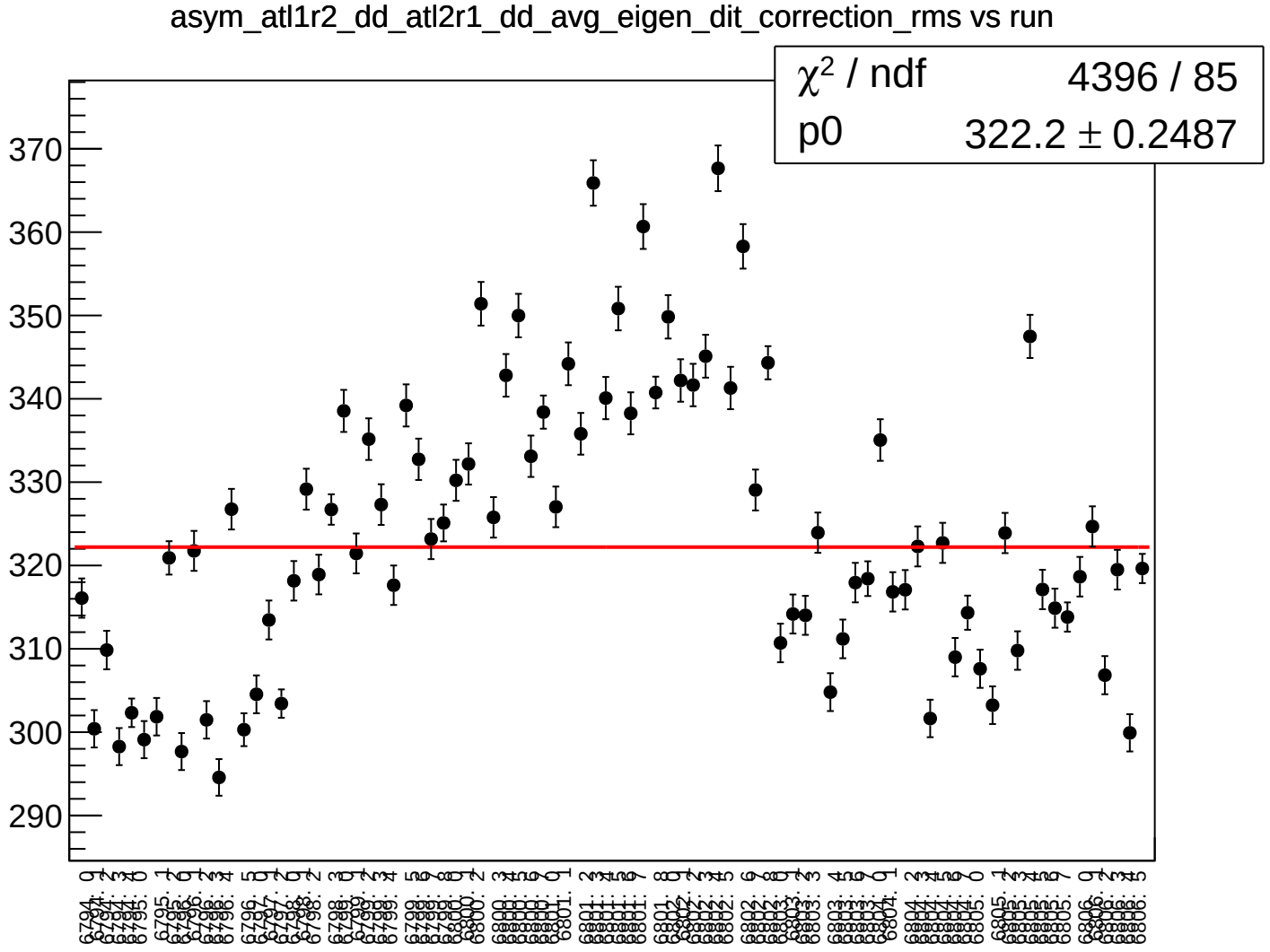

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 94.95 / 85
p0 −390.9 ± 1356
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −81.86
Std Dev 0
3
2
1
0
−1
−2

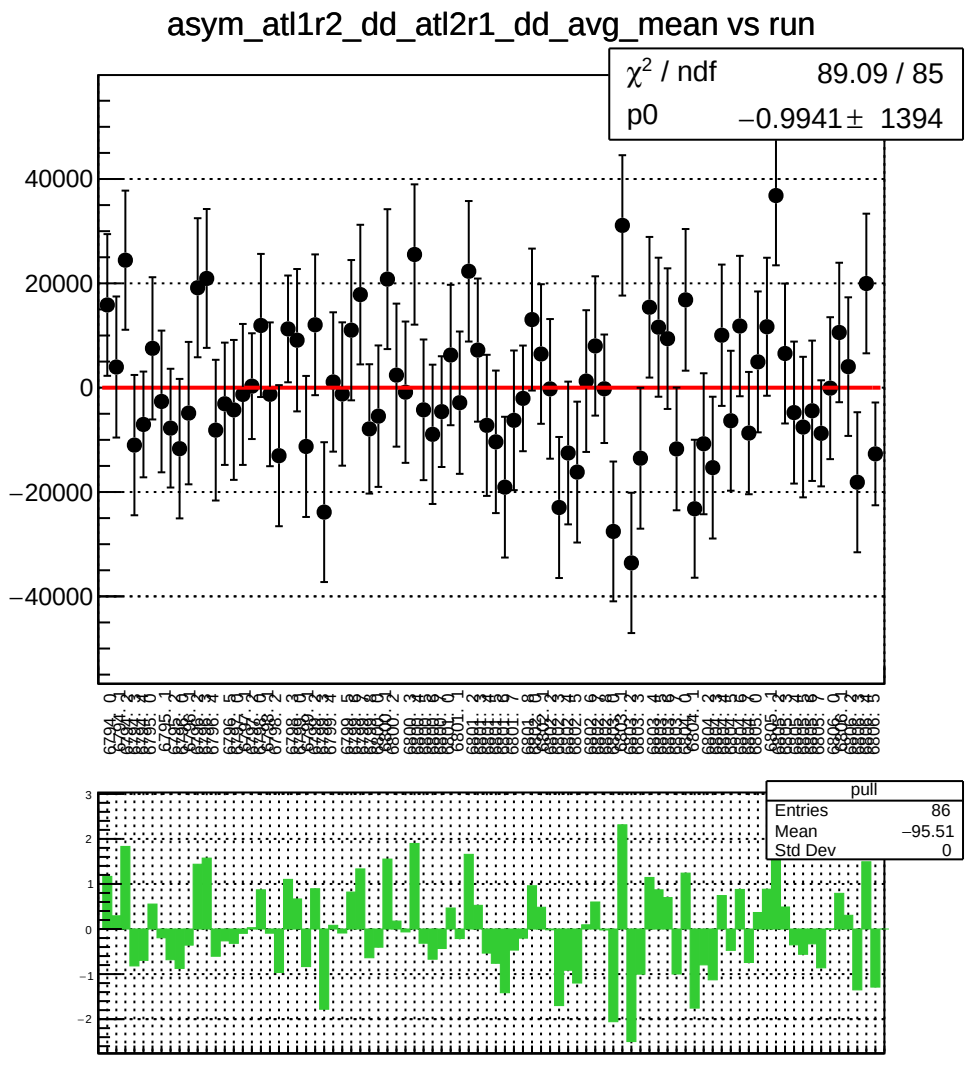

pull1D
Entries 86
Mean 0.009472
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

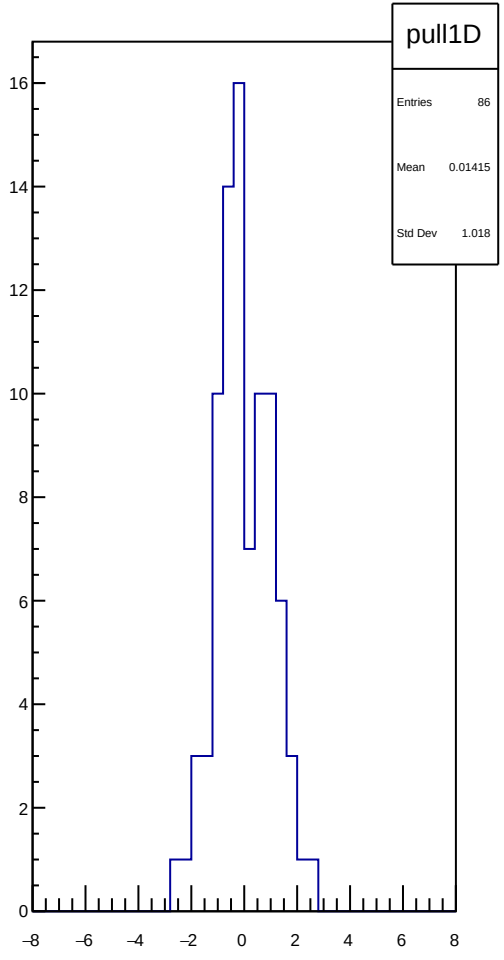

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 98.81 / 85
p0 1244 ± 0.9591
1280
1270
1260
1250
1240
1230
1220
1210

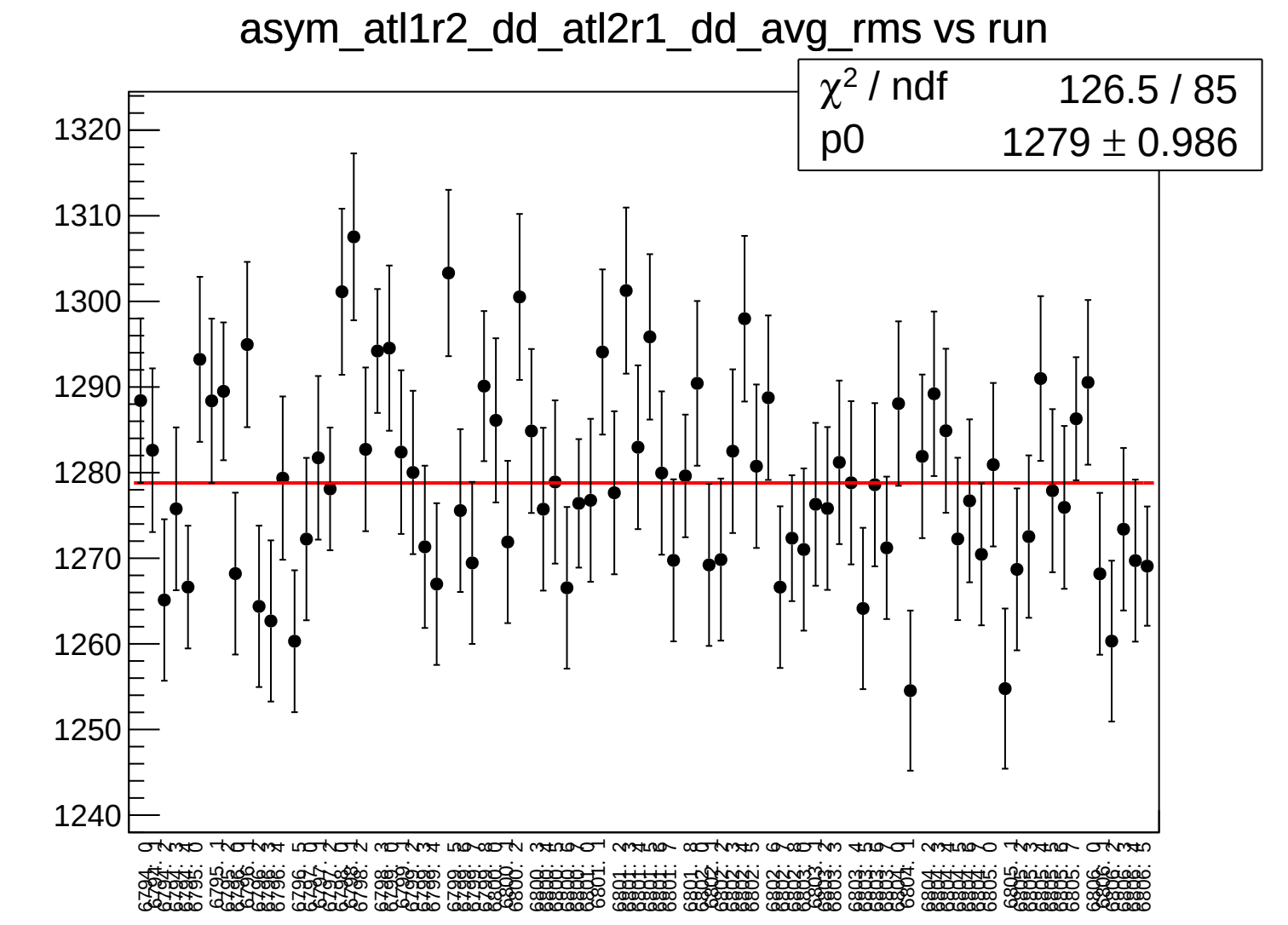

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.9 / 85
p0 −336.7 ± 351.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −76.37
Std Dev 0
2
1
0
−1
−2

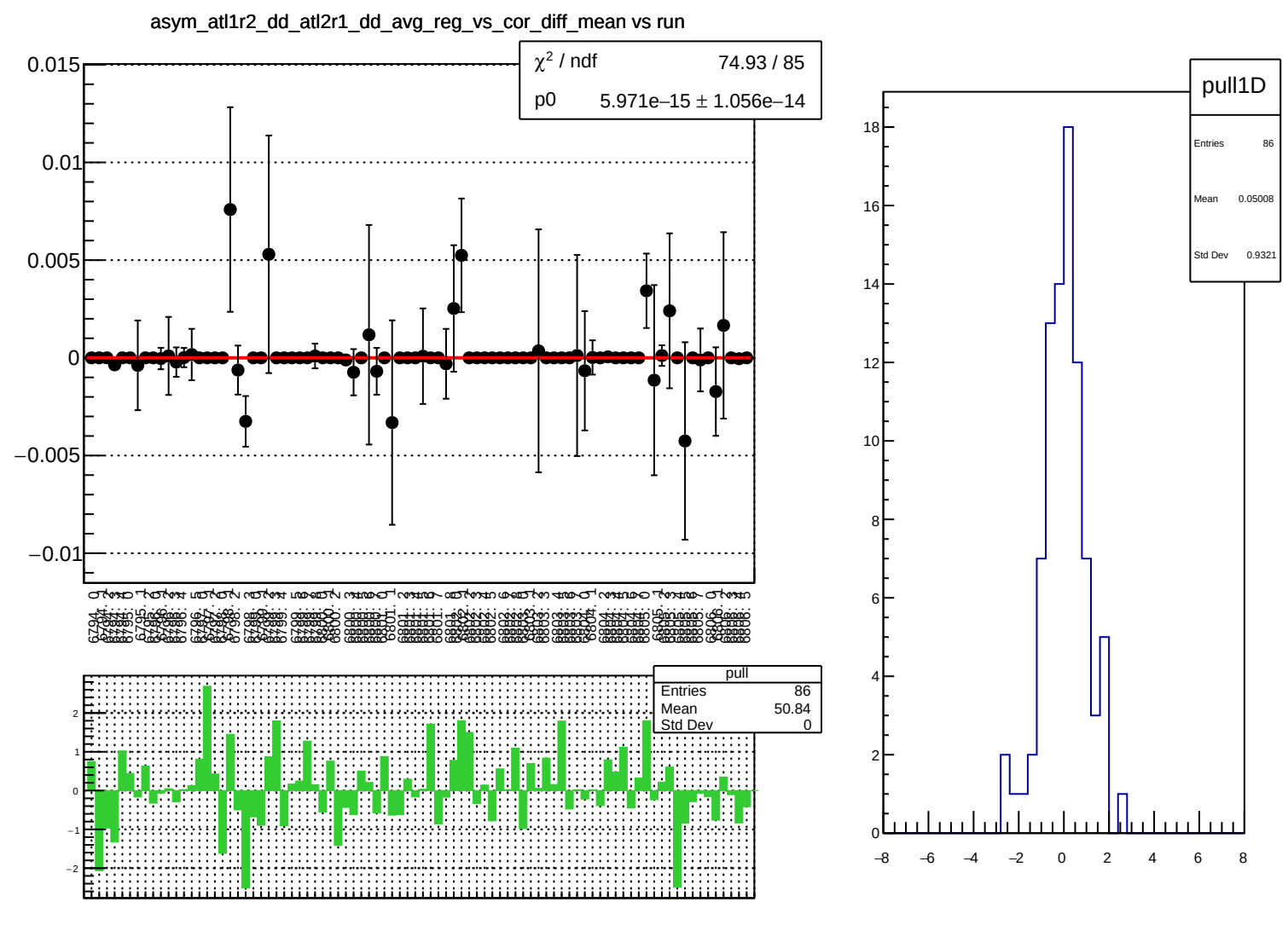

pull1D
Entries 86
Mean −0.02725
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

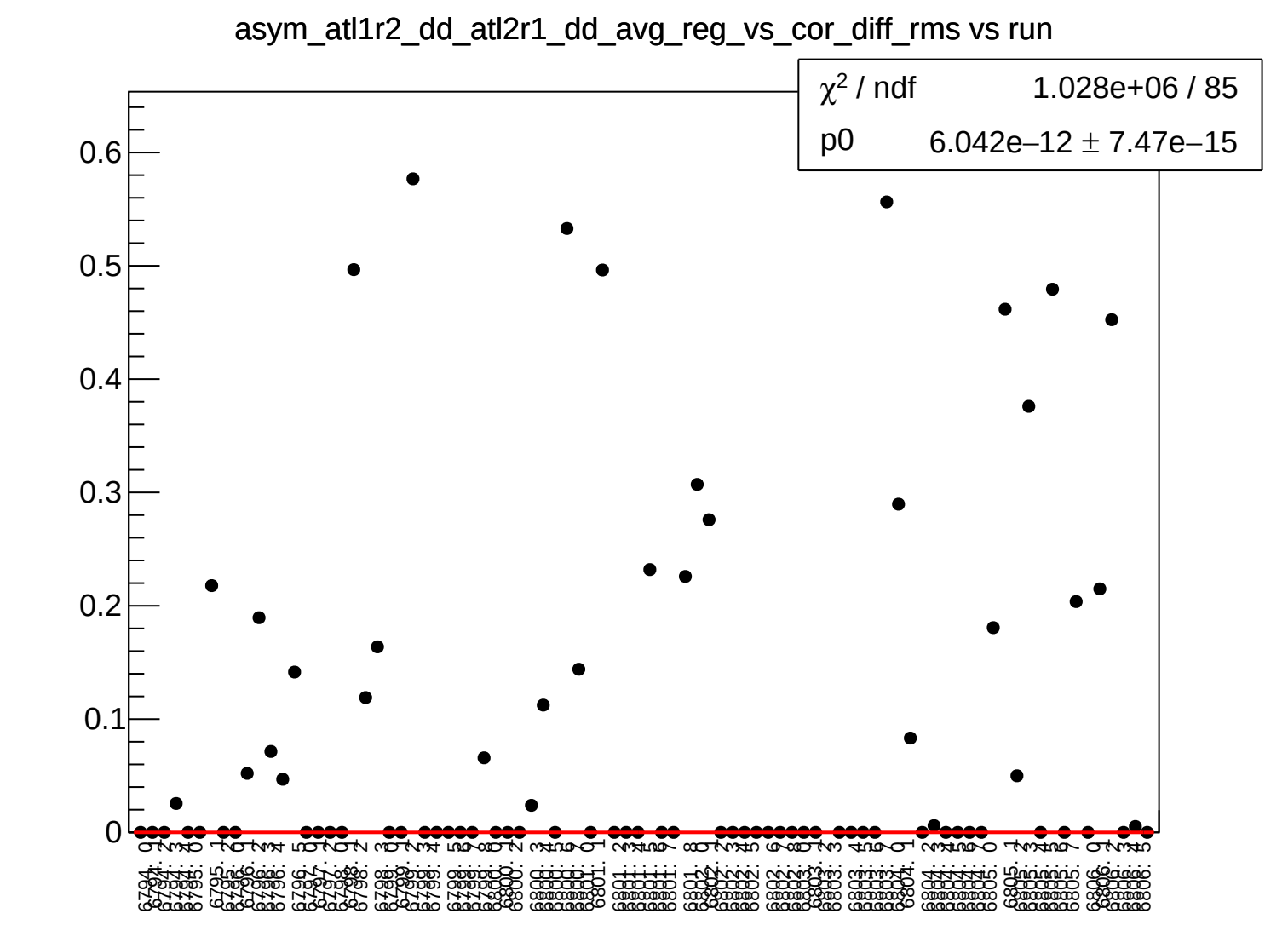

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4396 / 85
p0 322.2 ± 0.2487
370
360
350
340
330
320
310
300
290

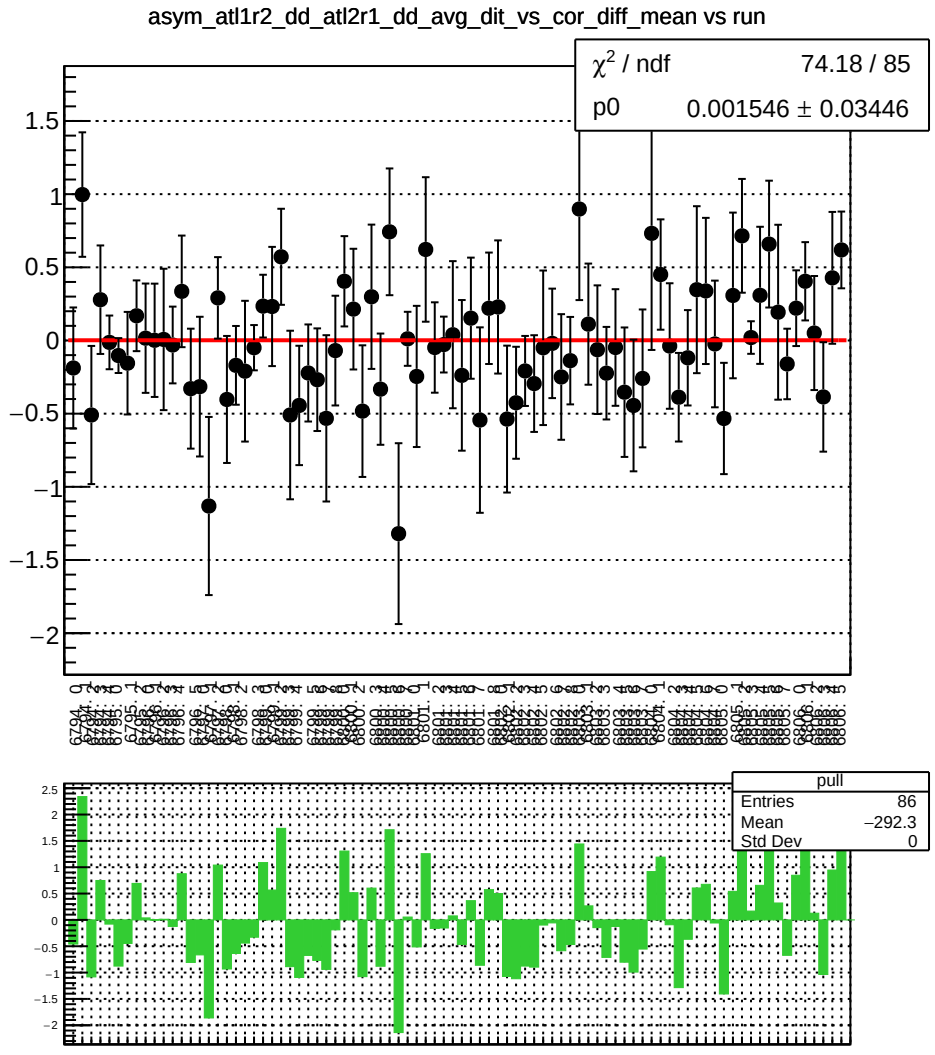

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 89.09 / 85
p0 −0.9941 ± 1394
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −95.51
Std Dev 0
3
2
1
0
−1
−2

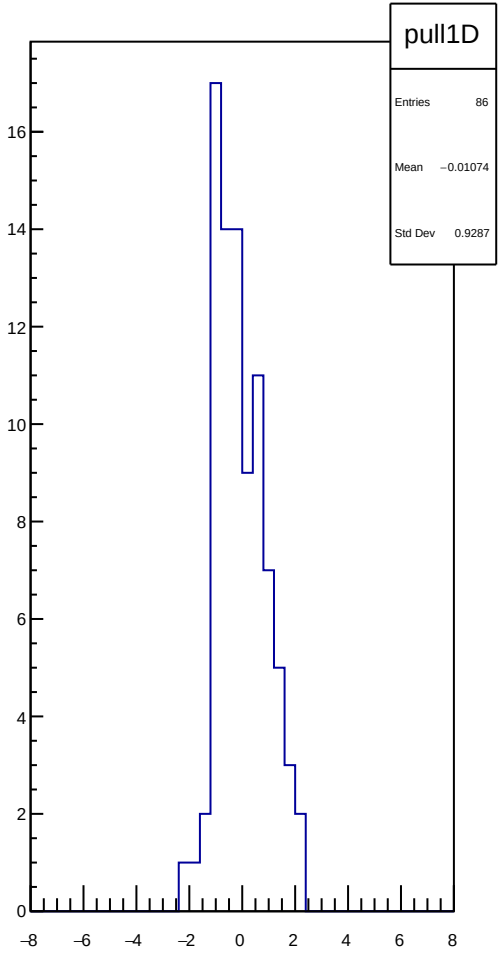

pull1D
Entries 86
Mean 0.01415
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

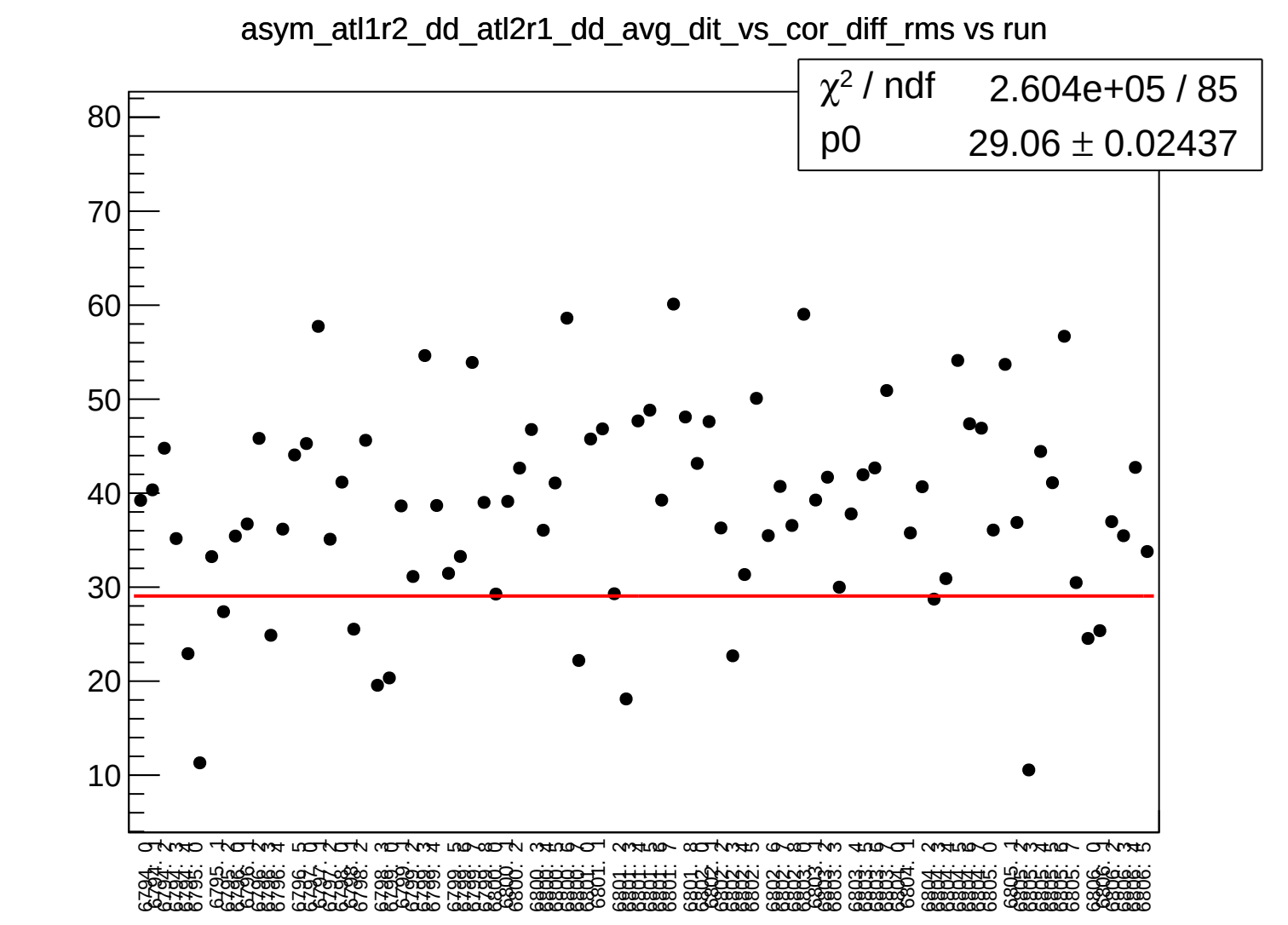

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ^2 / ndf 126.5 / 85
p0 1279 ± 0.986
1320
1310
1300
1290
1280
1270
1260
1250
1240

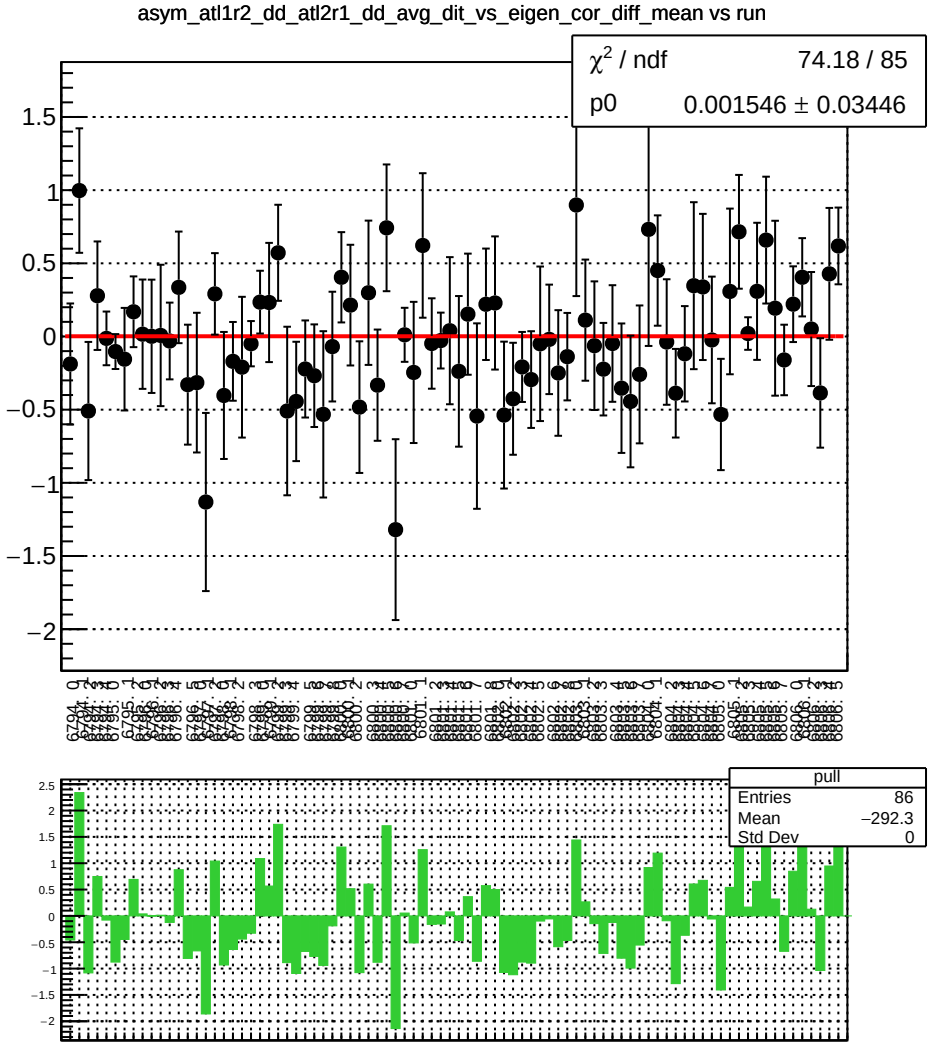

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.93 / 85
p0 5.971e−15 ± 1.056e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 50.84
Std Dev 0
pull1D
Entries 86
Mean 0.05008
Std Dev 0.9321
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

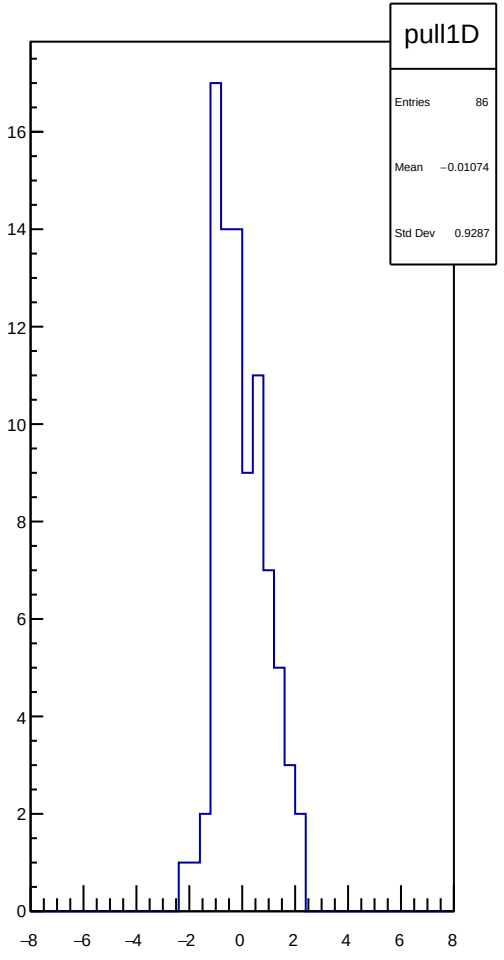

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.028e+06 / 85
p0 6.042e−12 ± 7.47e−15
0.6
0.5
0.4
0.3
0.2
0.1
0

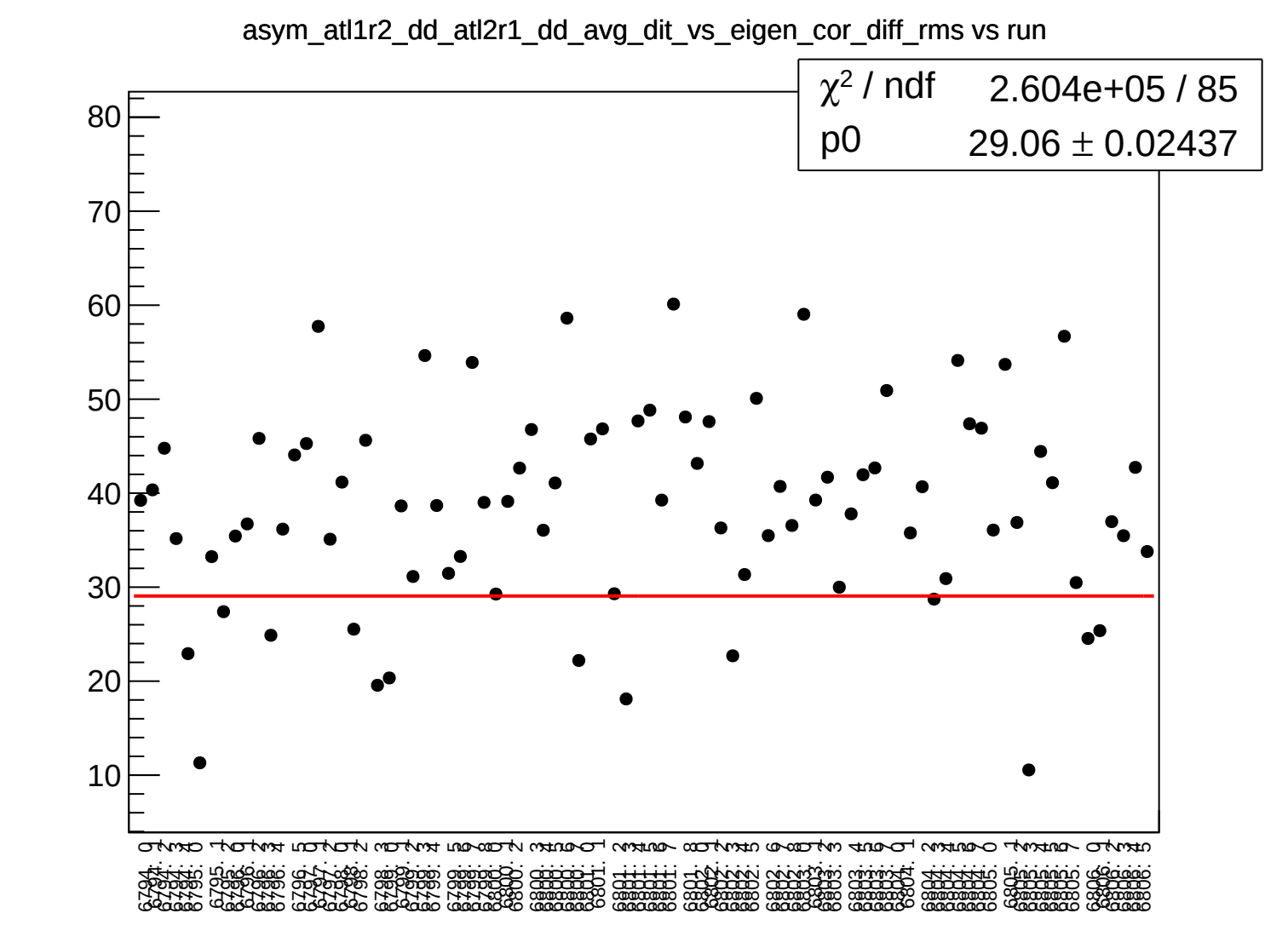

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001546 ± 0.03446
pull
Entries 86
Mean −292.3
Std Dev 0

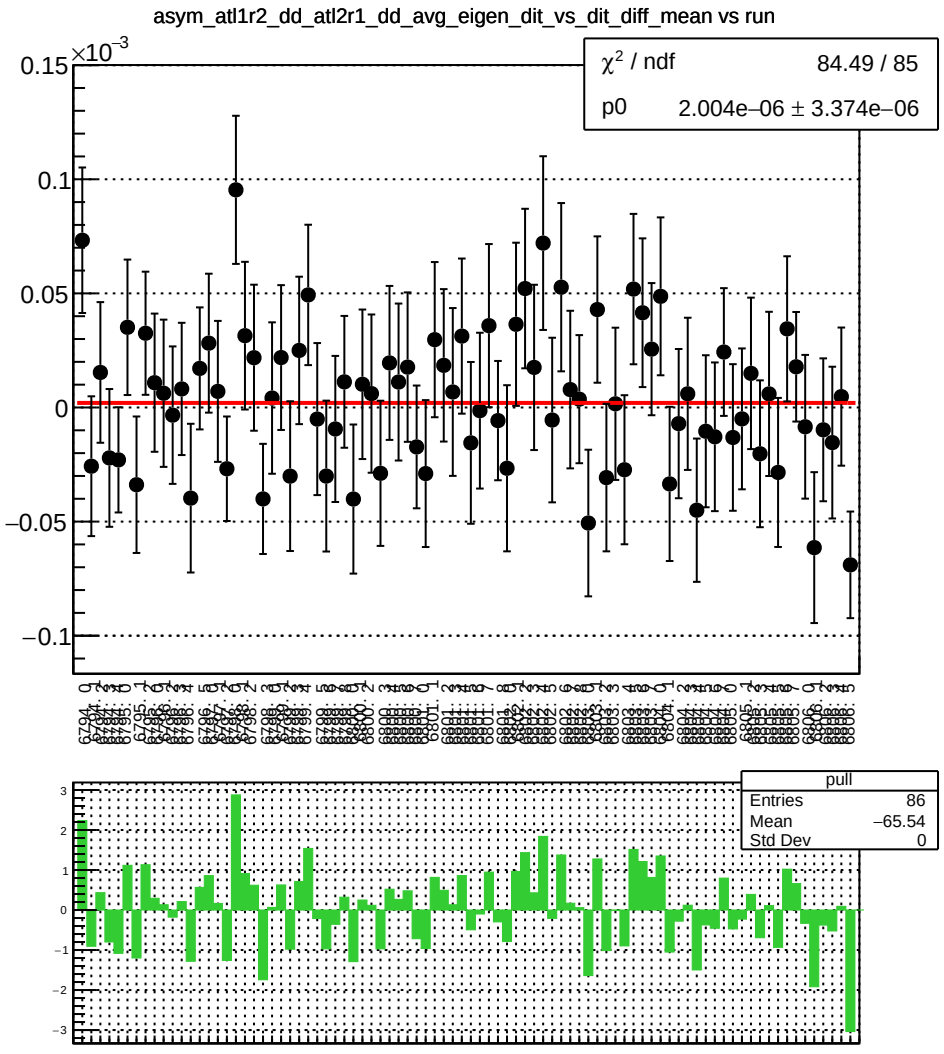

pull1D
Entries 86
Mean −0.01074
Std Dev 0.9287

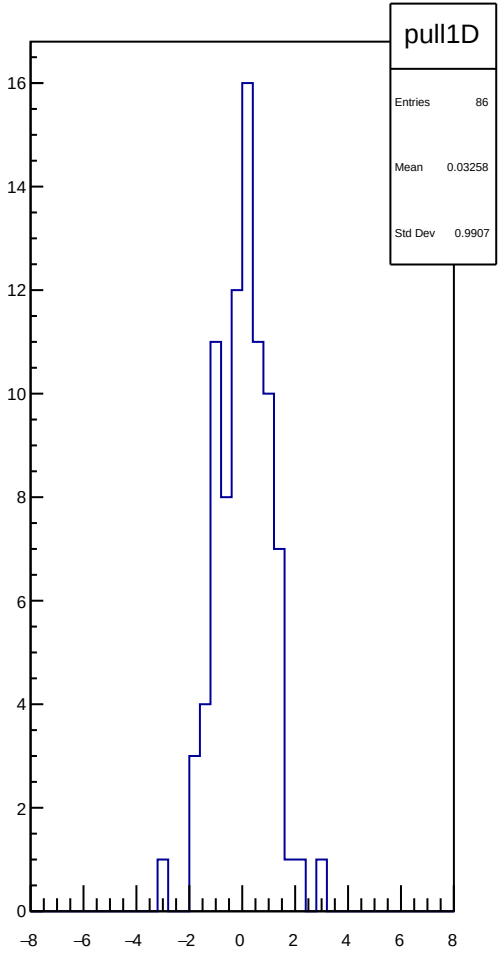

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

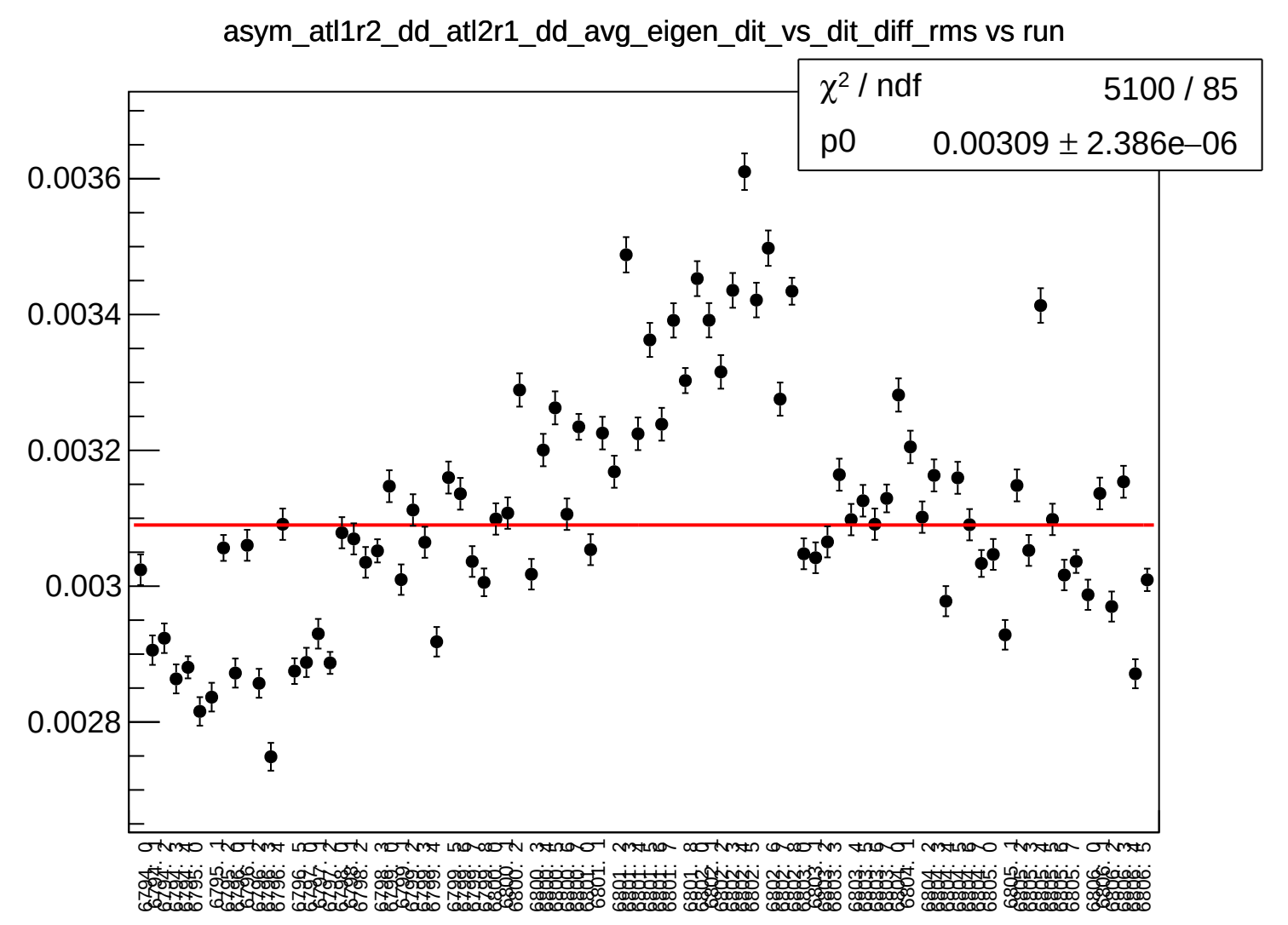

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001546 ± 0.03446
pull
Entries 86
Mean −292.3
Std Dev 0

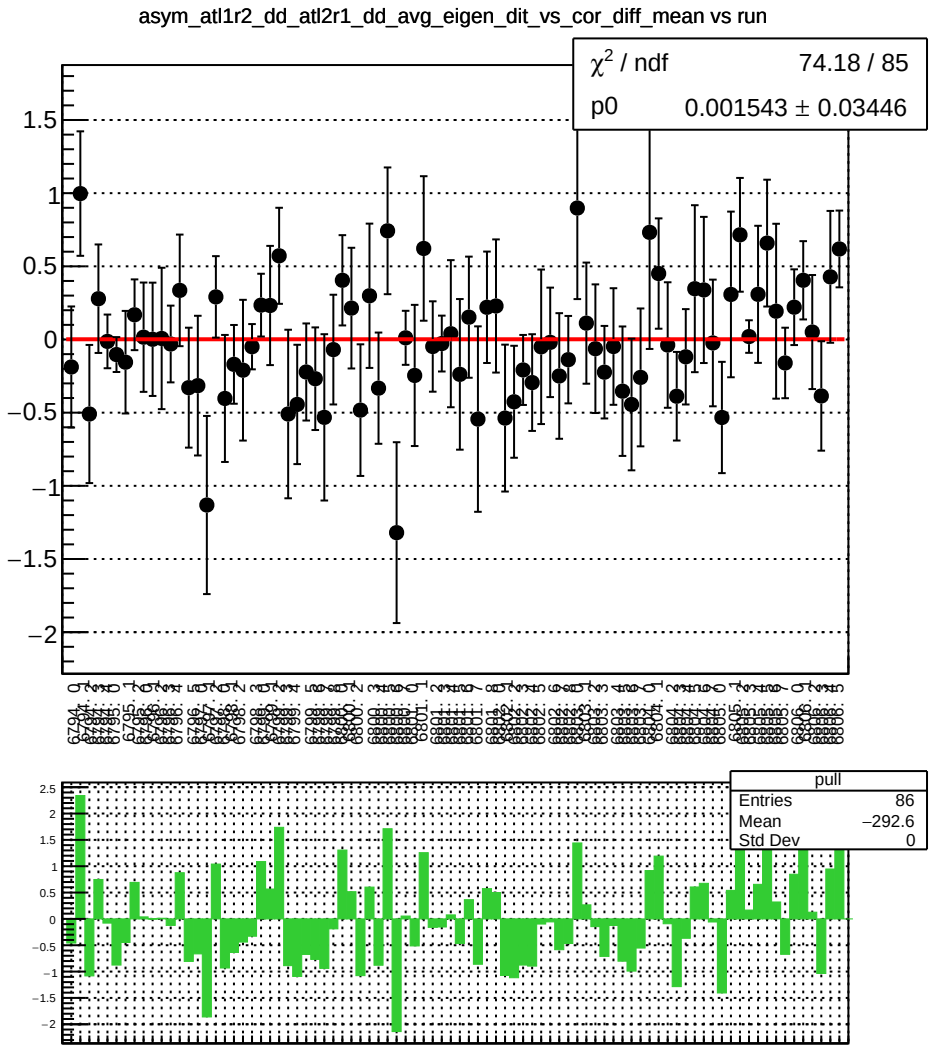

pull1D
Entries 86
Mean −0.01074
Std Dev 0.9287

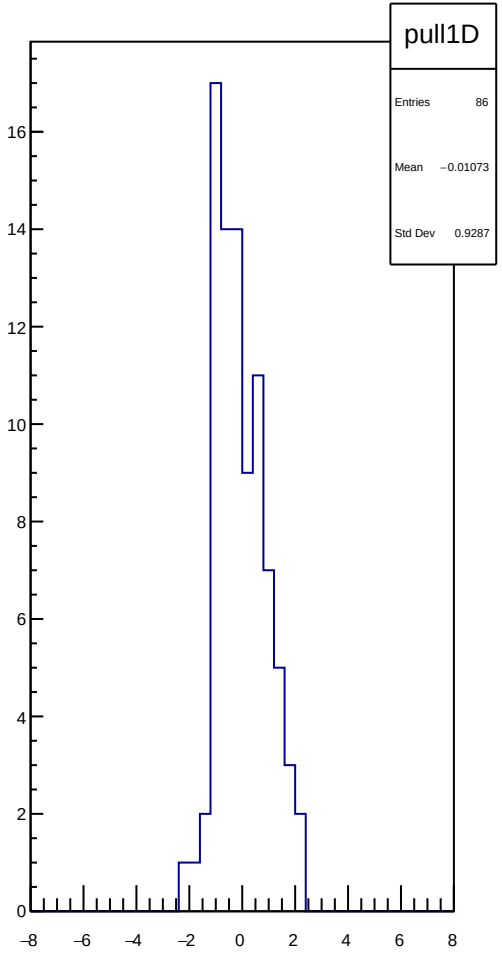

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

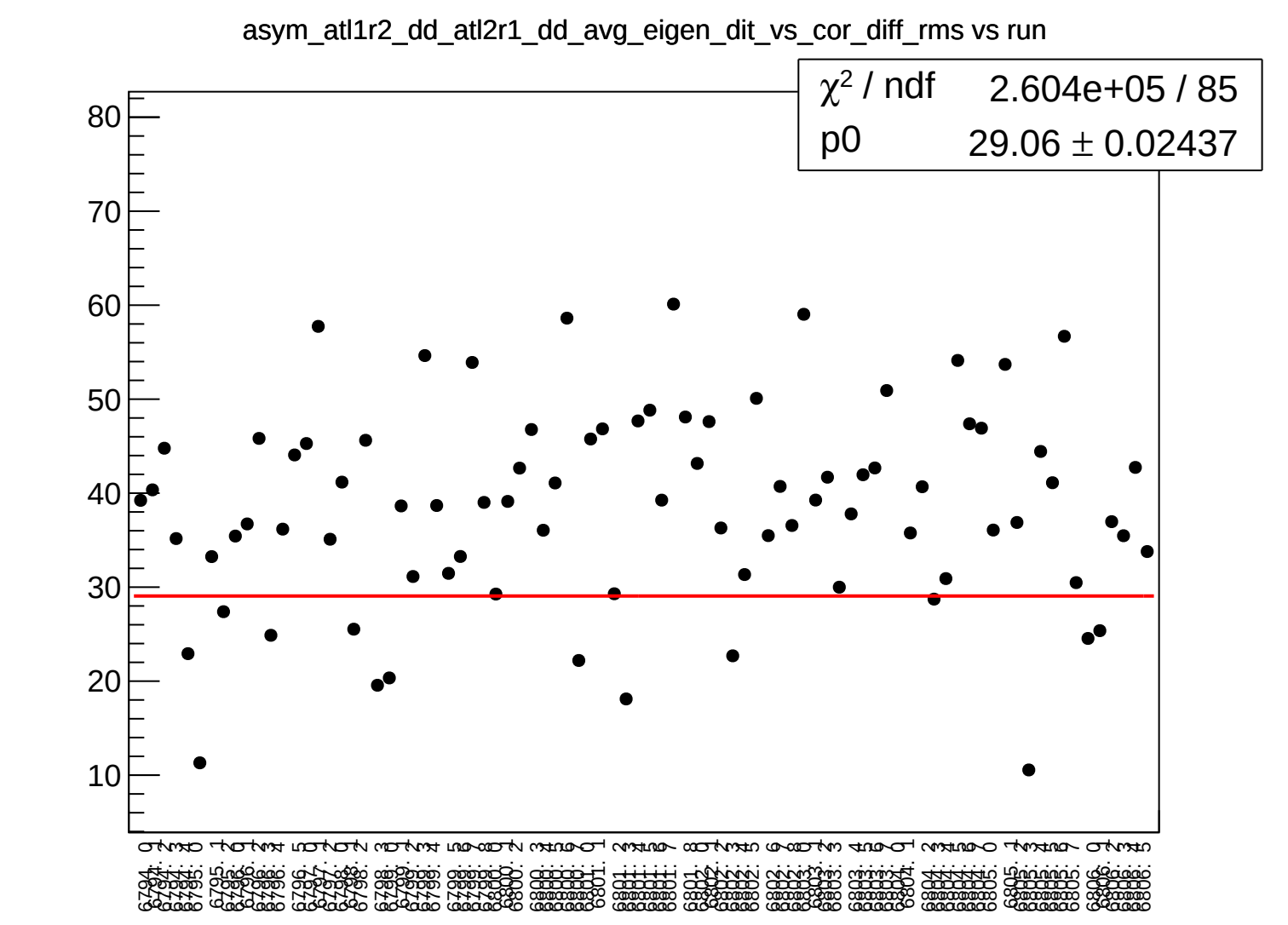

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.49 / 85
p0 2.004e−06 ± 3.374e−06
×10⁻³
pull
Entries 86
Mean −65.54
Std Dev 0

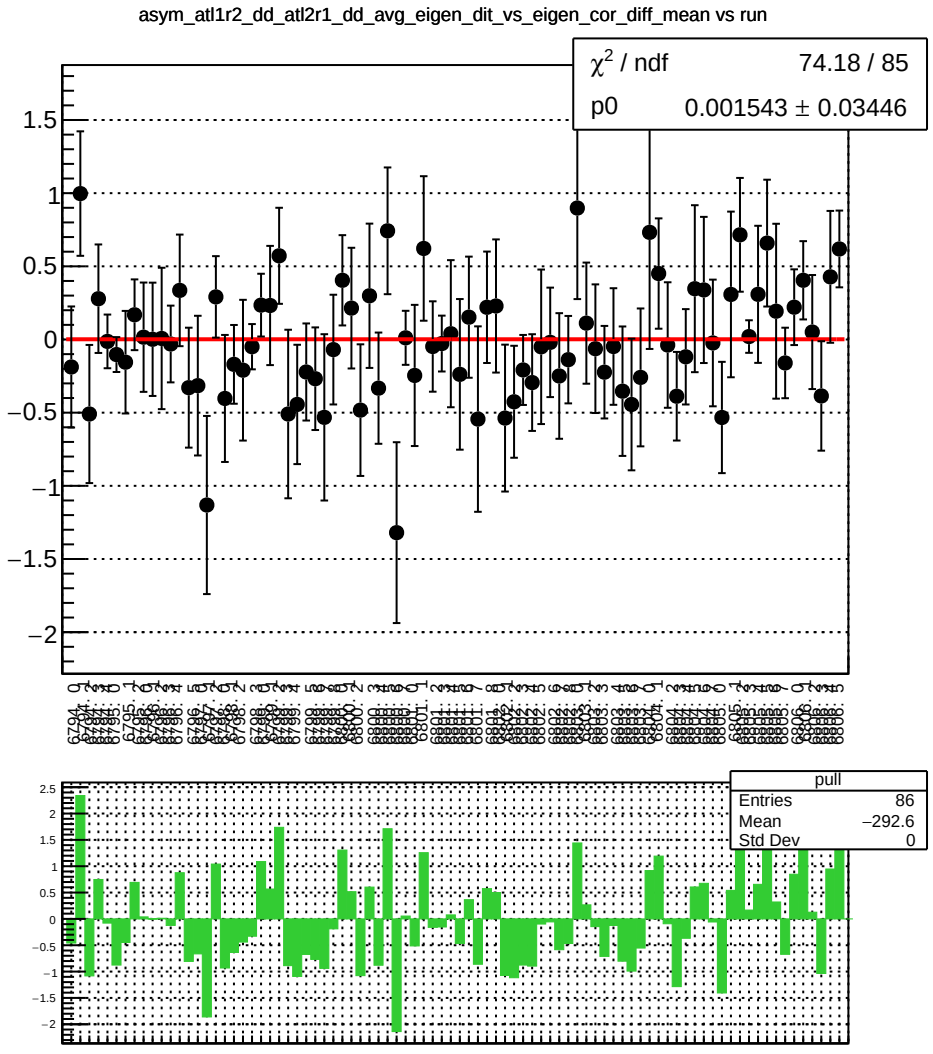

pull1D
Entries 86
Mean 0.03258
Std Dev 0.9907

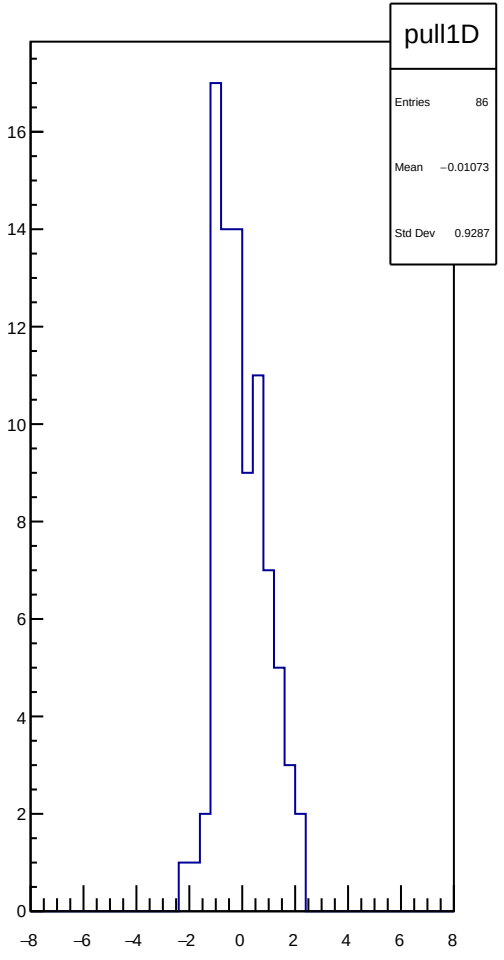

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5100 / 85
p0 0.00309 ± 2.386e–06
0.0036
0.0034
0.0032
0.003
0.0028

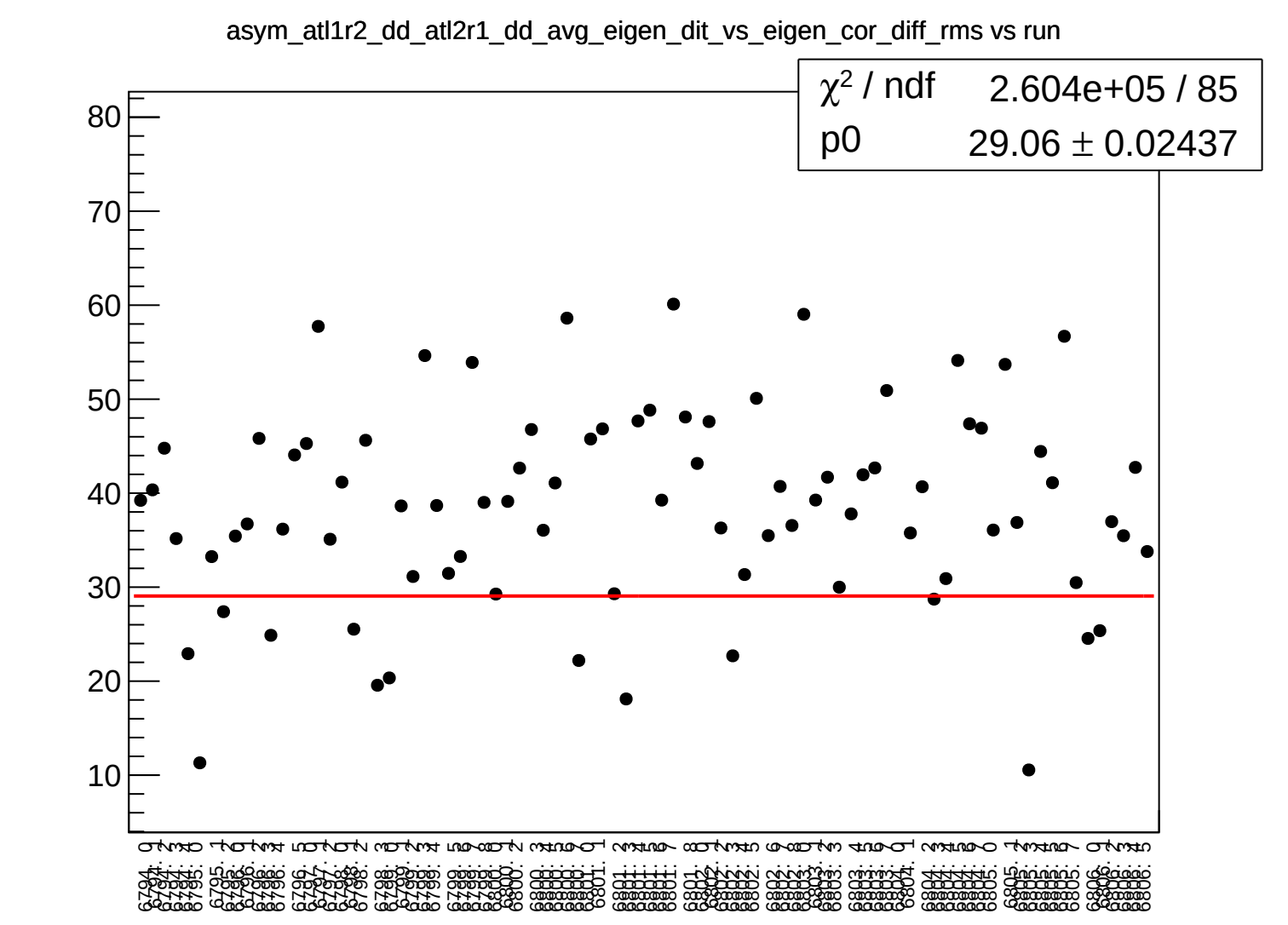

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001543 ± 0.03446
pull
Entries 86
Mean −292.6
Std Dev 0

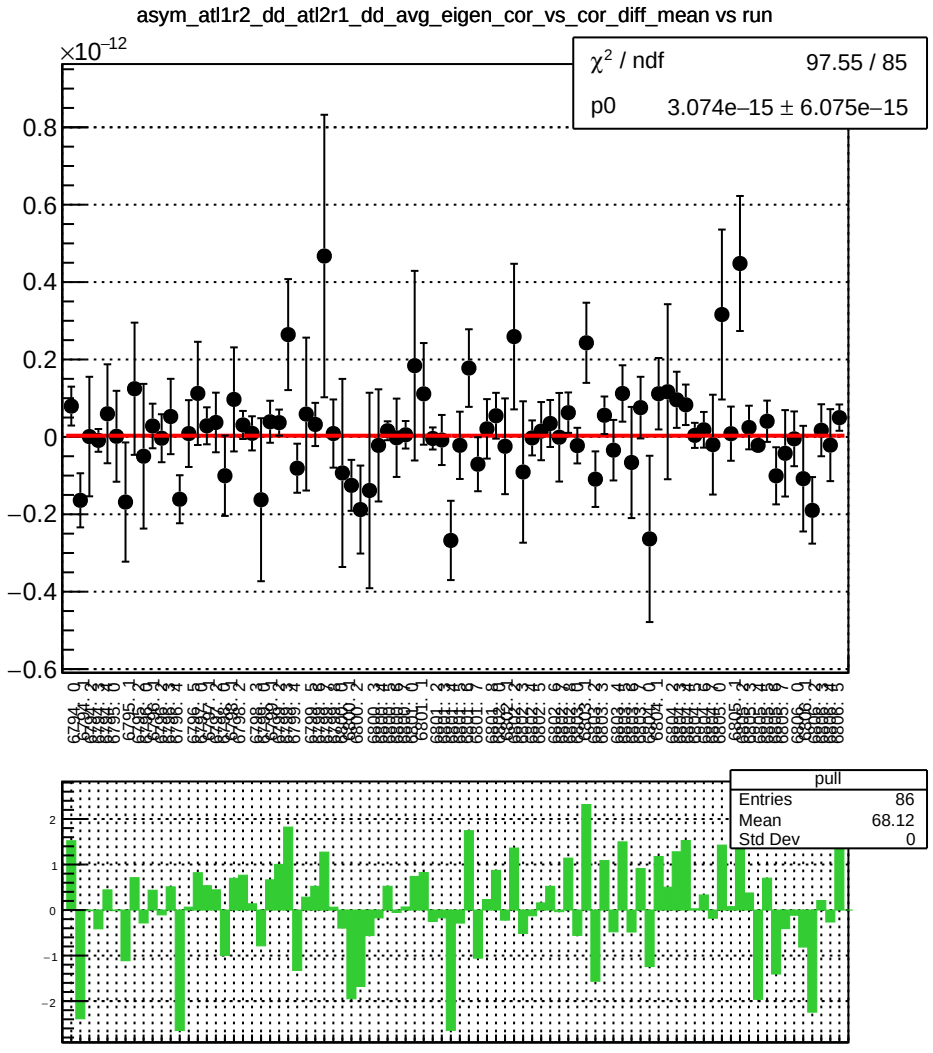

pull1D
Entries 86
Mean −0.01073
Std Dev 0.9287

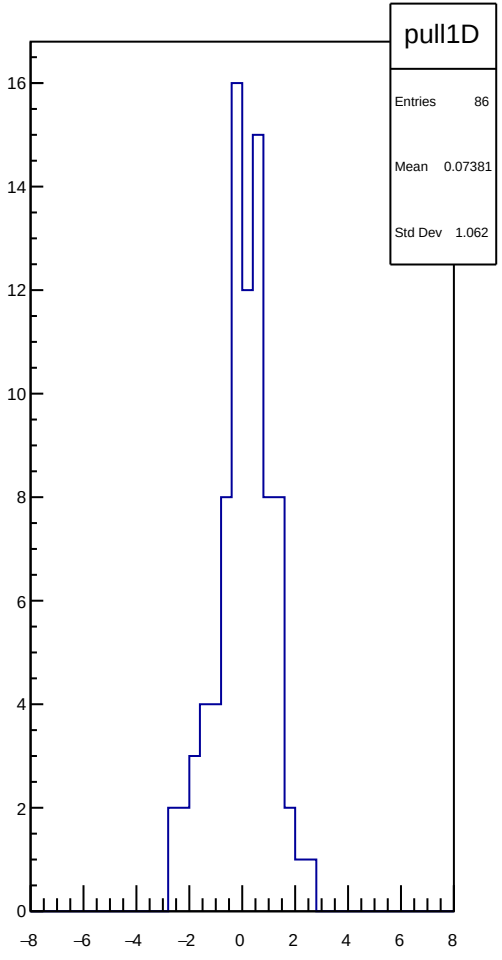

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

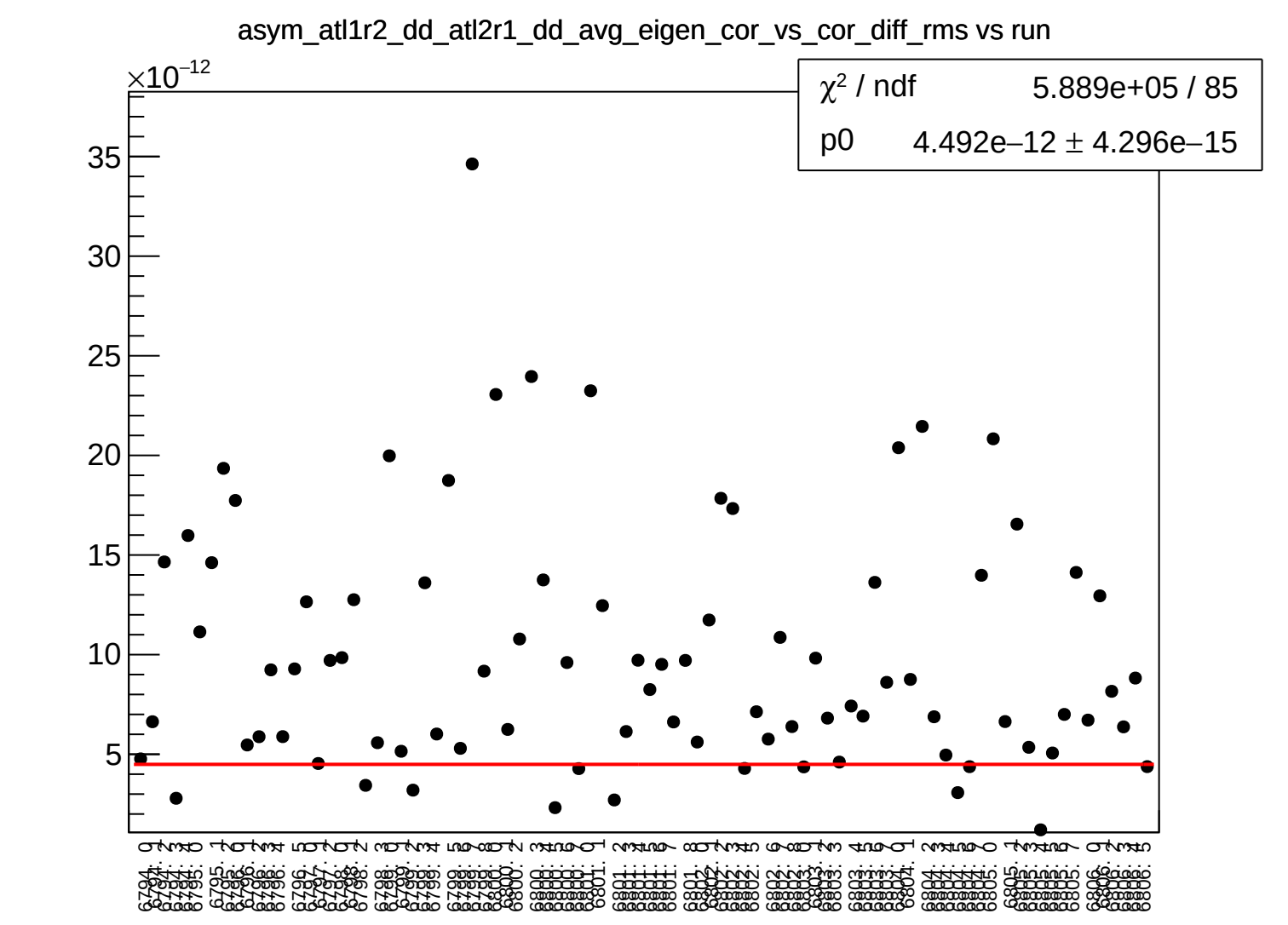

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.18 / 85
p0 0.001543 ± 0.03446
pull
Entries 86
Mean −292.6
Std Dev 0

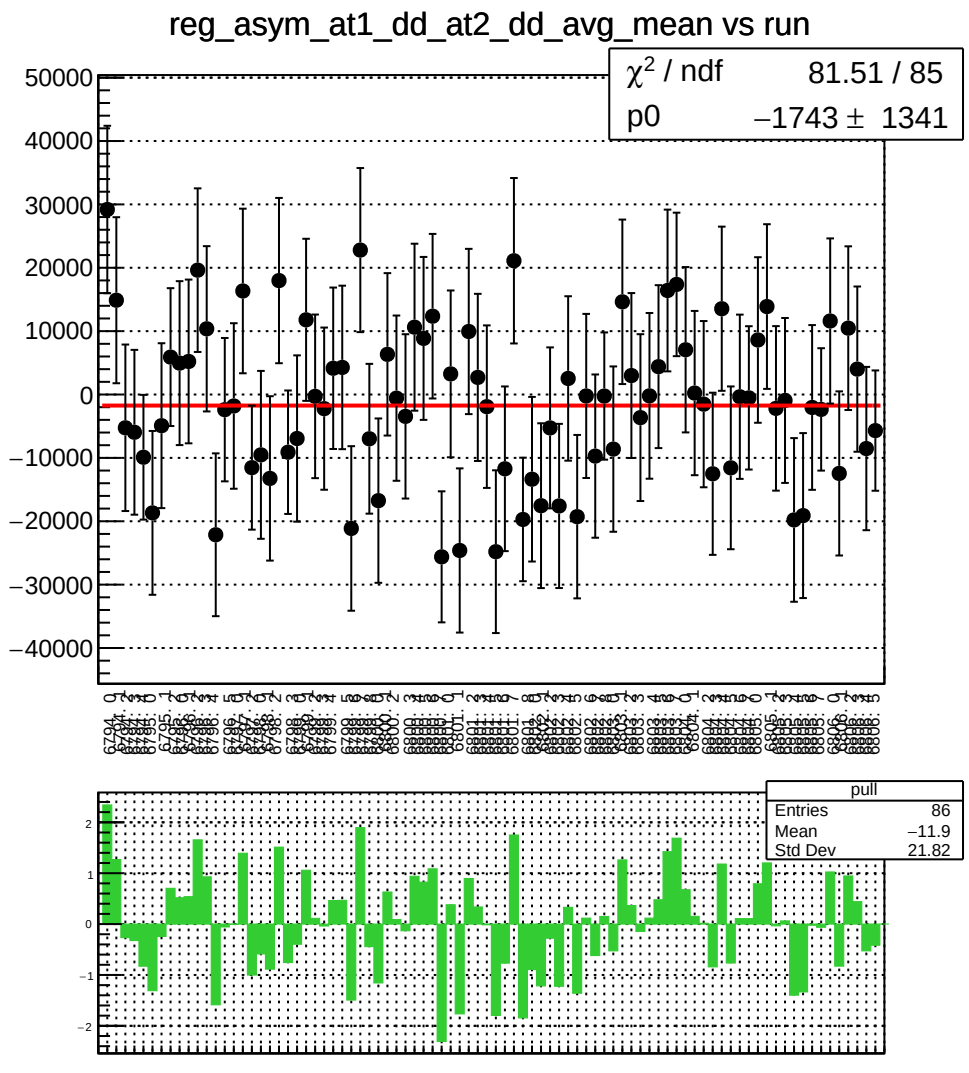

pull1D
Entries 86
Mean −0.01073
Std Dev 0.9287

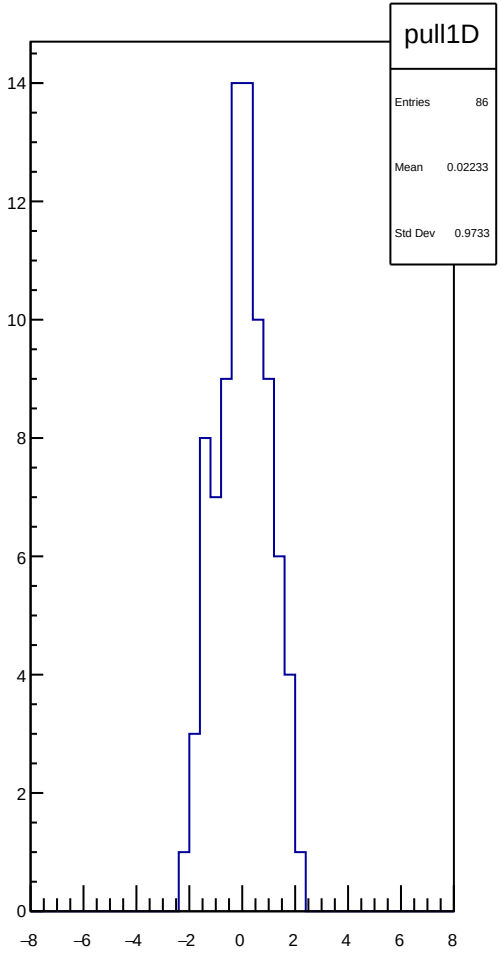

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.604e+05 / 85
p0 29.06 ± 0.02437
80
70
60
50
40
30
20
10

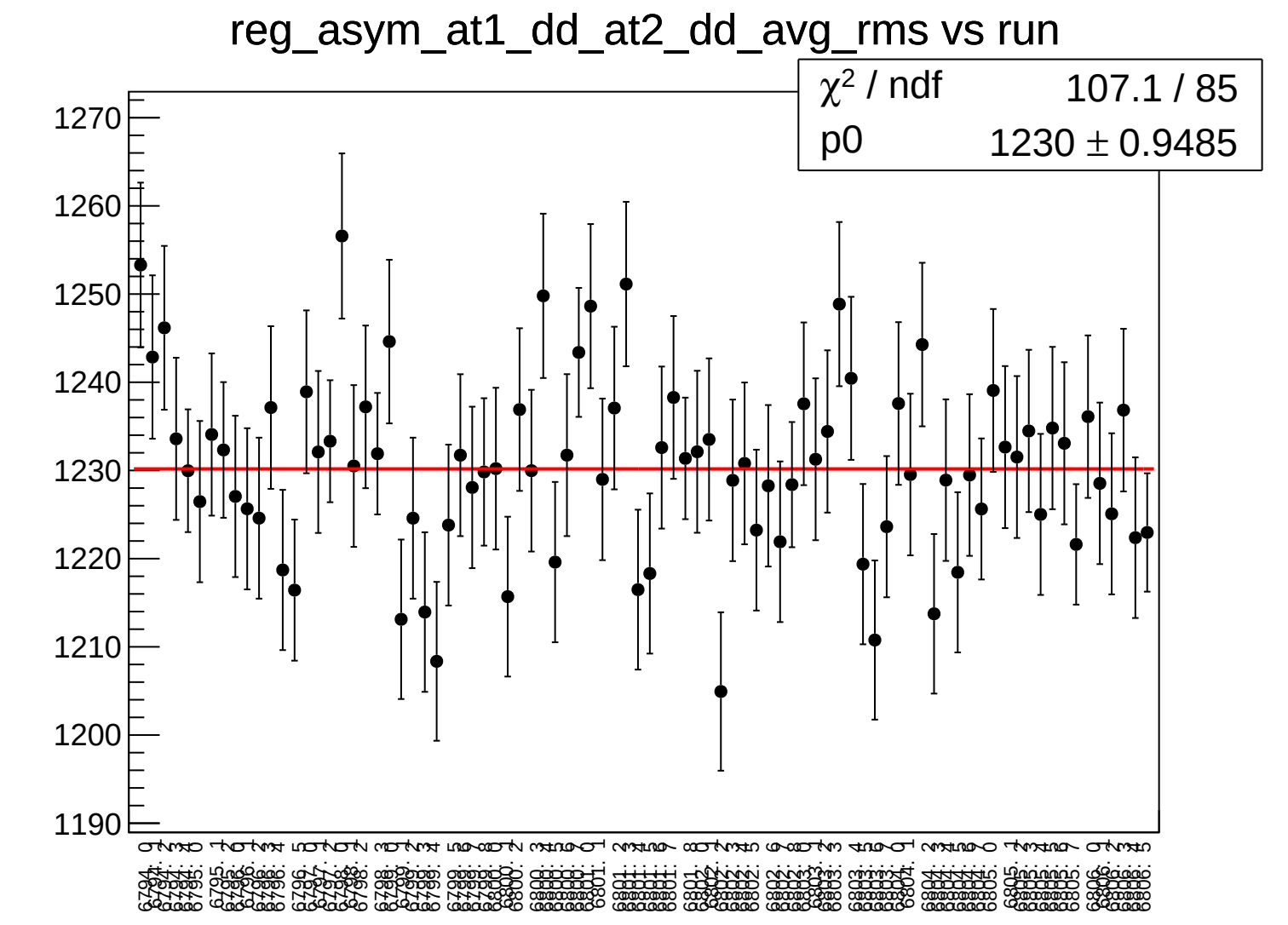

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.55 / 85
p0 3.074e−15 ± 6.075e−15
pull
Entries 86
Mean 68.12
Std Dev 0

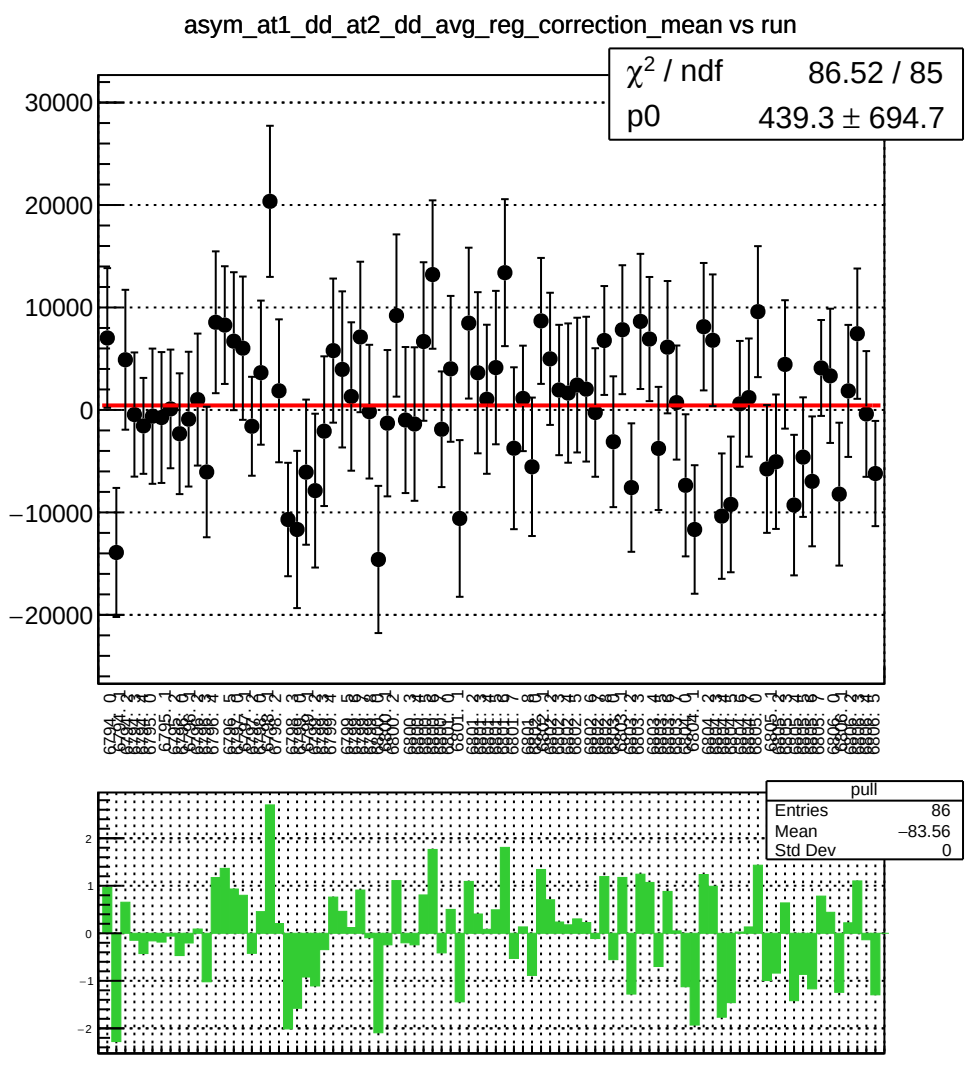

pull1D
Entries 86
Mean 0.07381
Std Dev 1.062

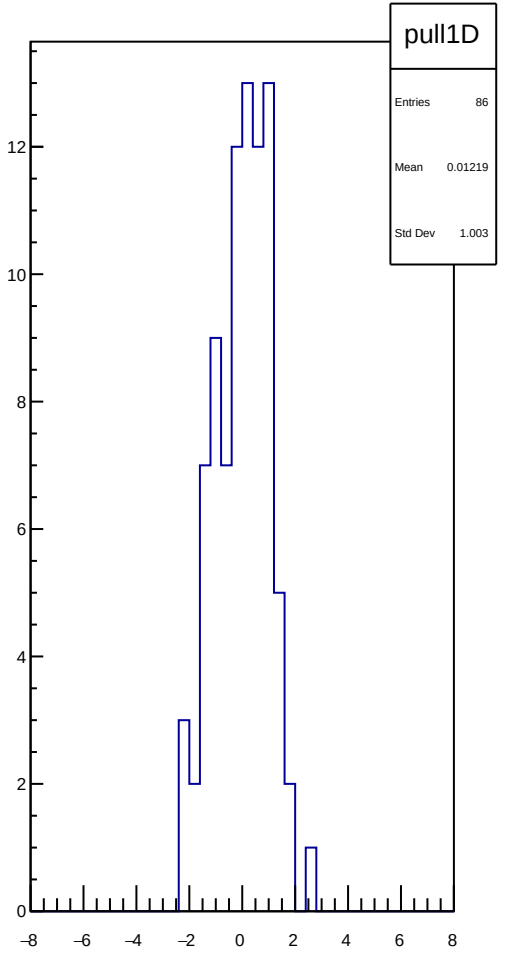

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.889e+05 / 85
p0 4.492e−12 ± 4.296e−15
35
30
25
20
15
10
5

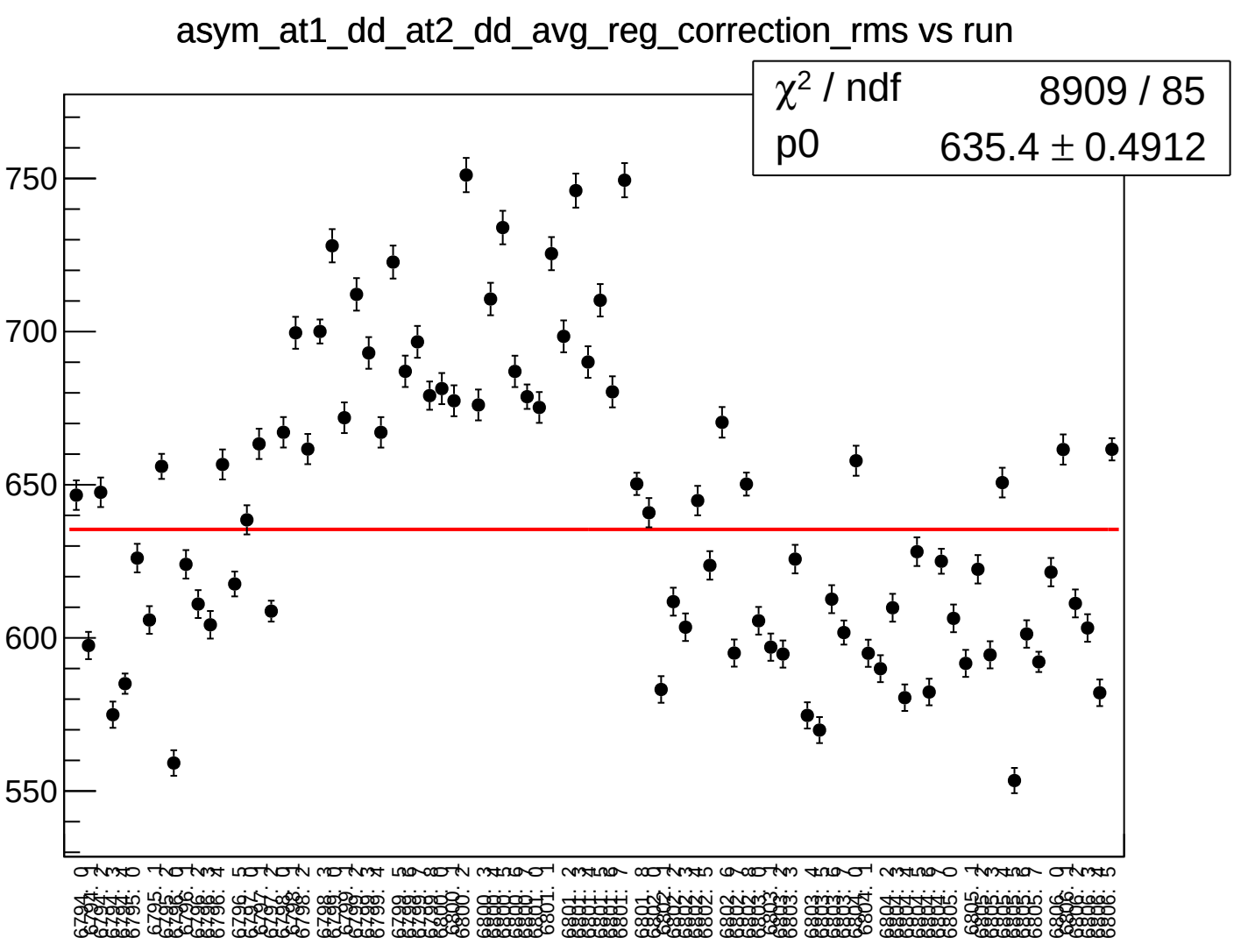

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.9
Std Dev 21.82

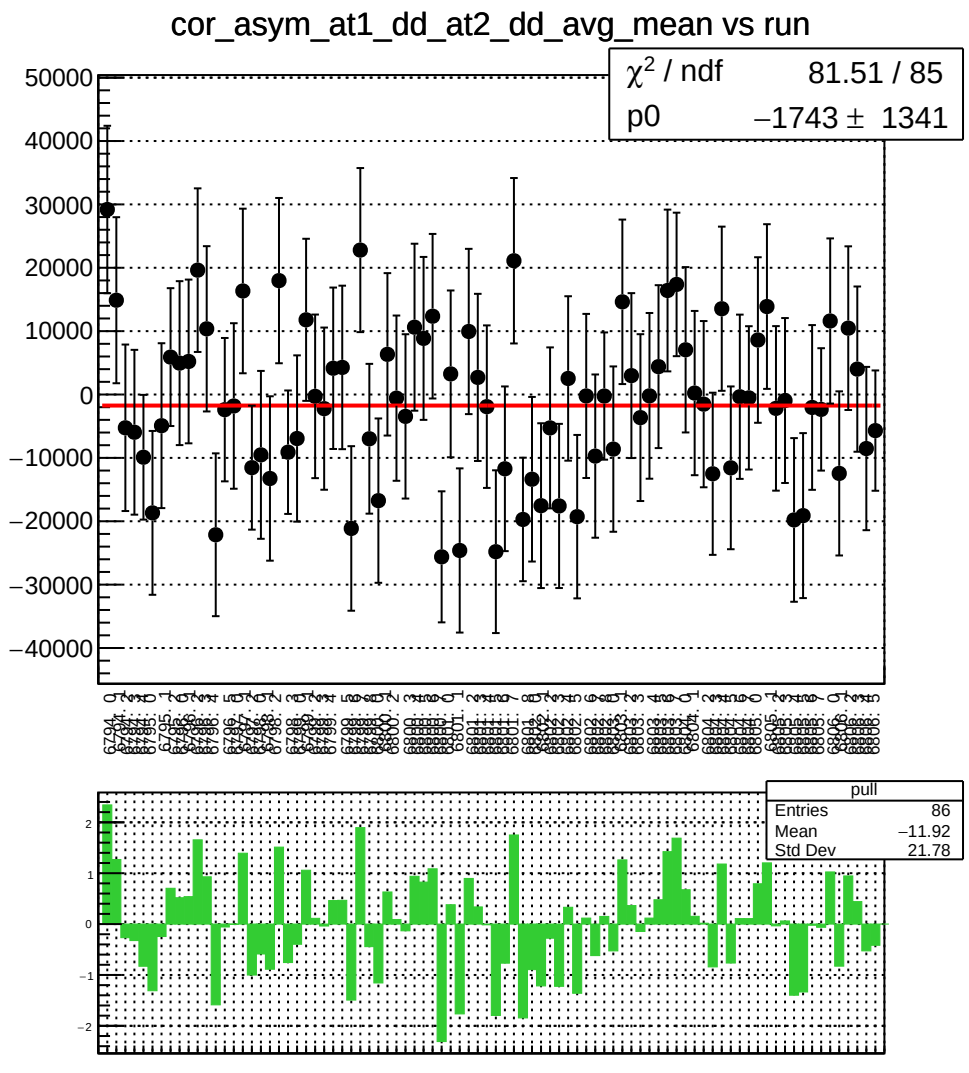

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

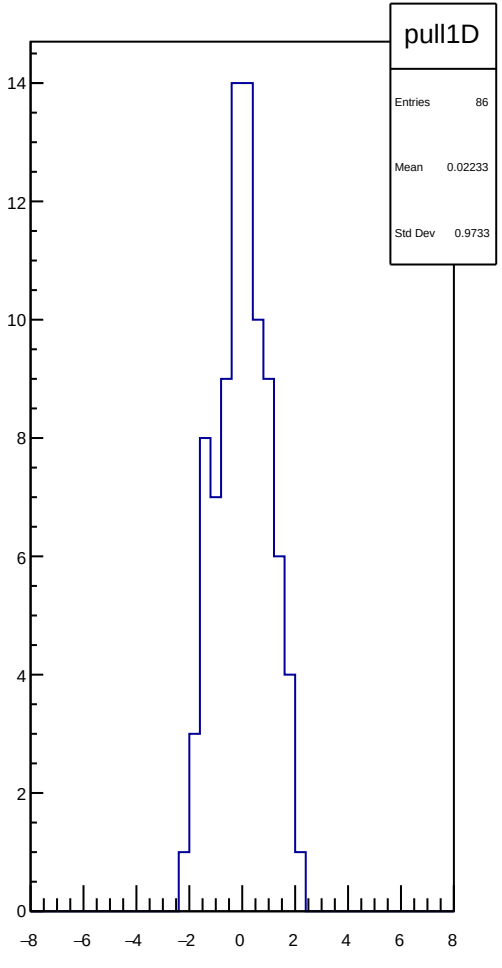

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

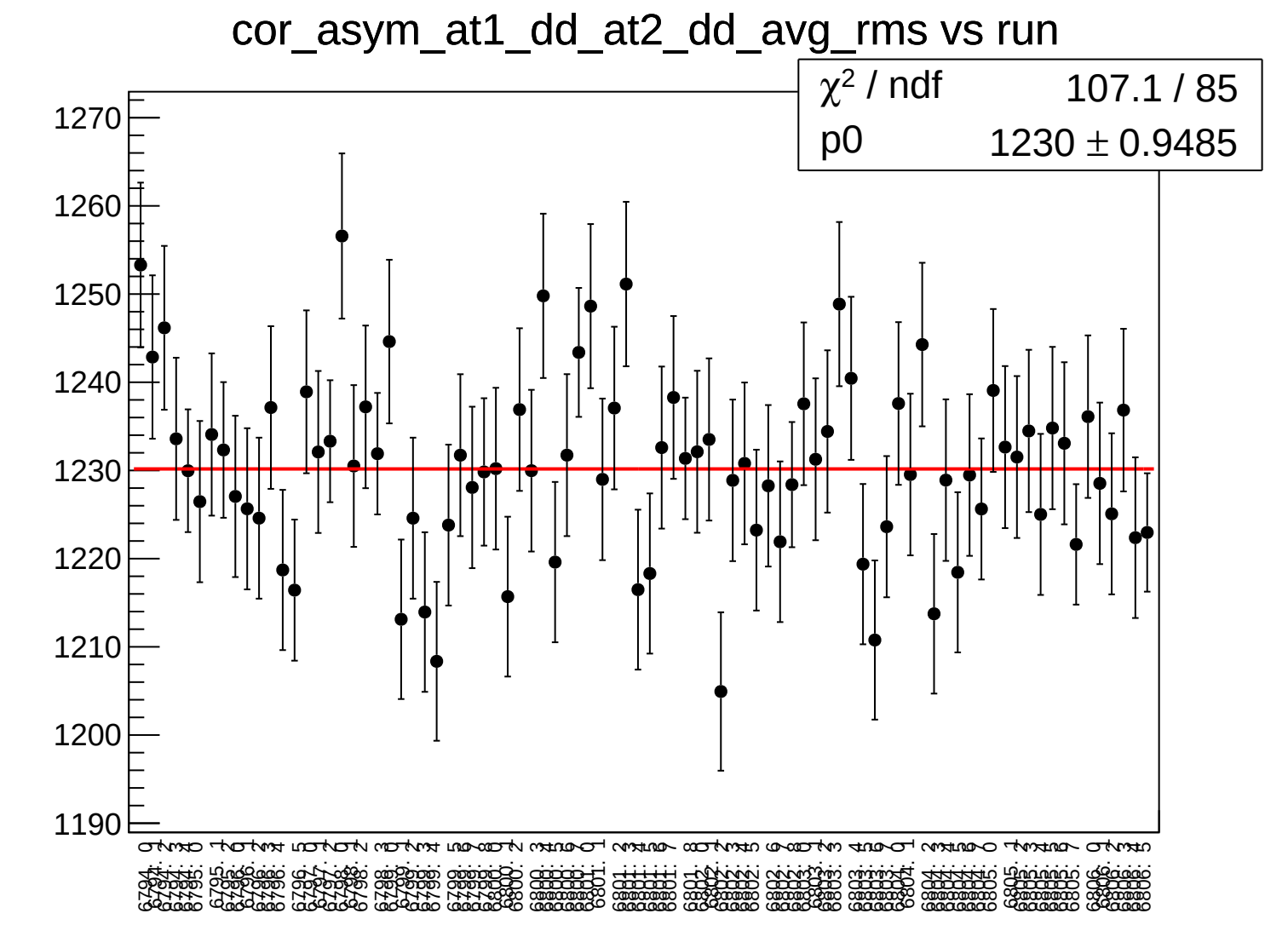

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.3 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.56
Std Dev 0
2
1
0
−1
−2

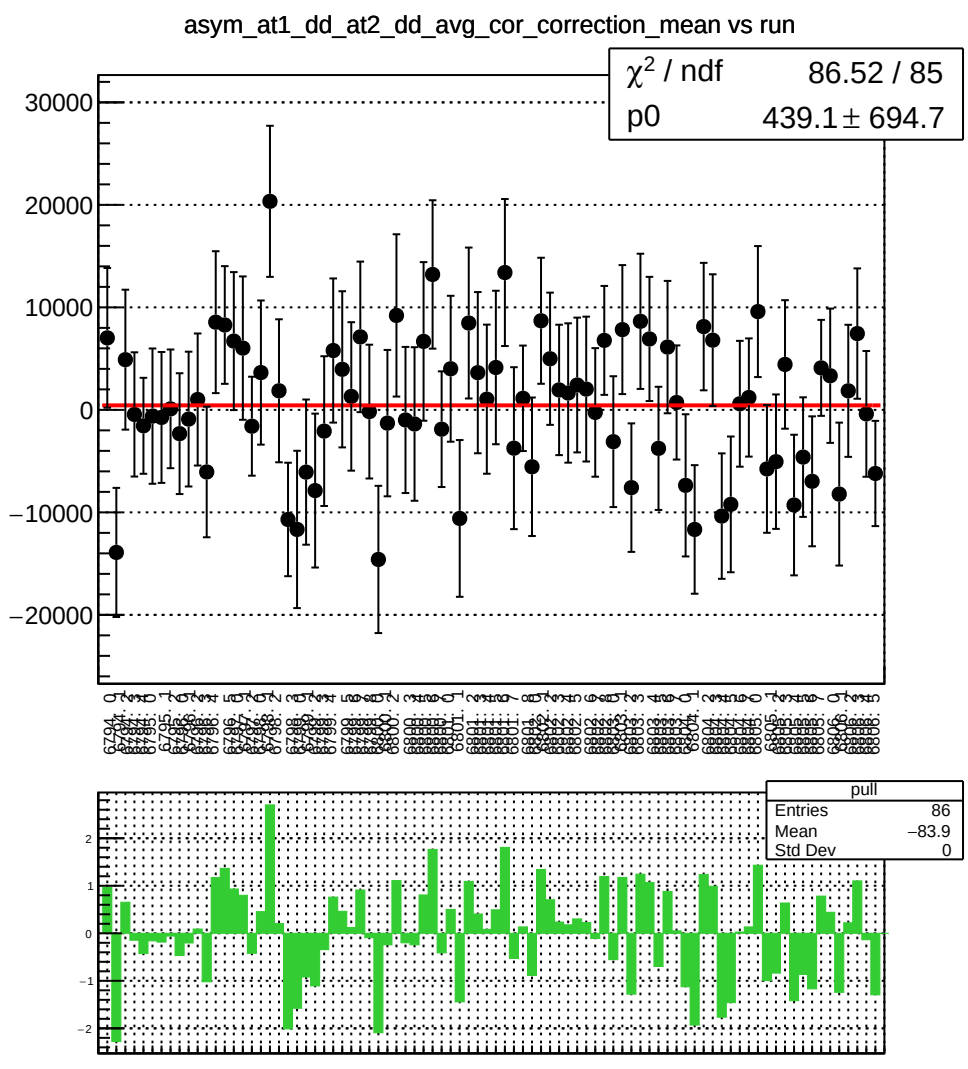

pull1D
Entries 86
Mean 0.01219
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

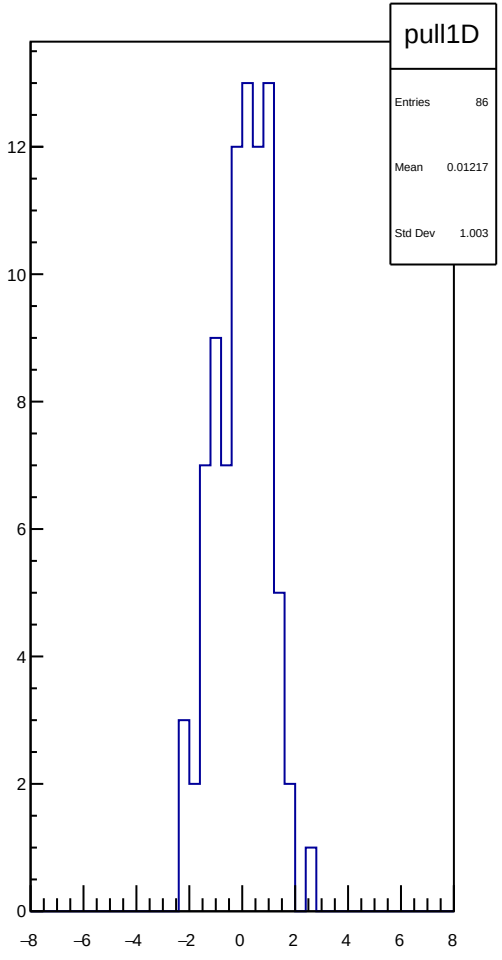

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 8909 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

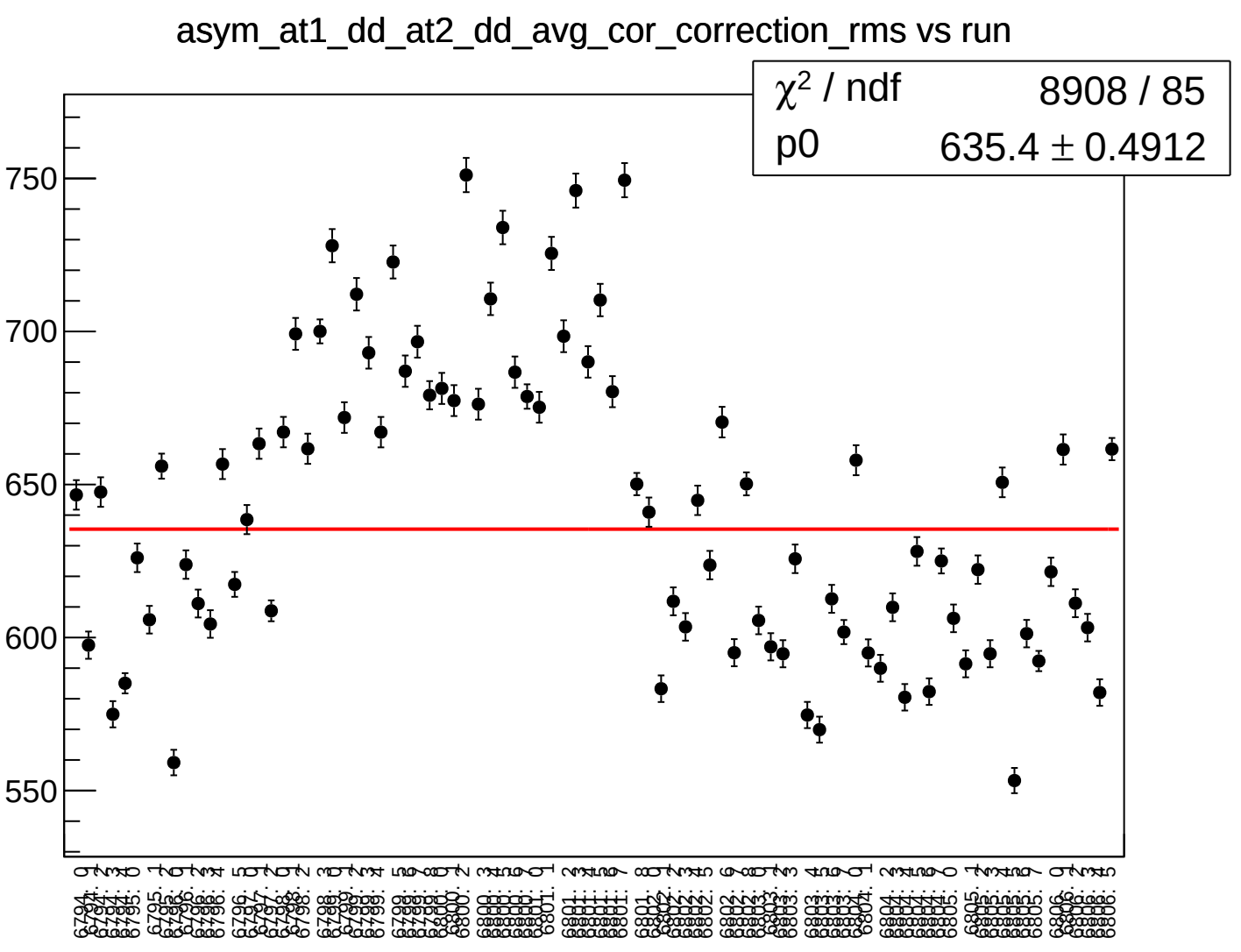

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.92
Std Dev 21.78

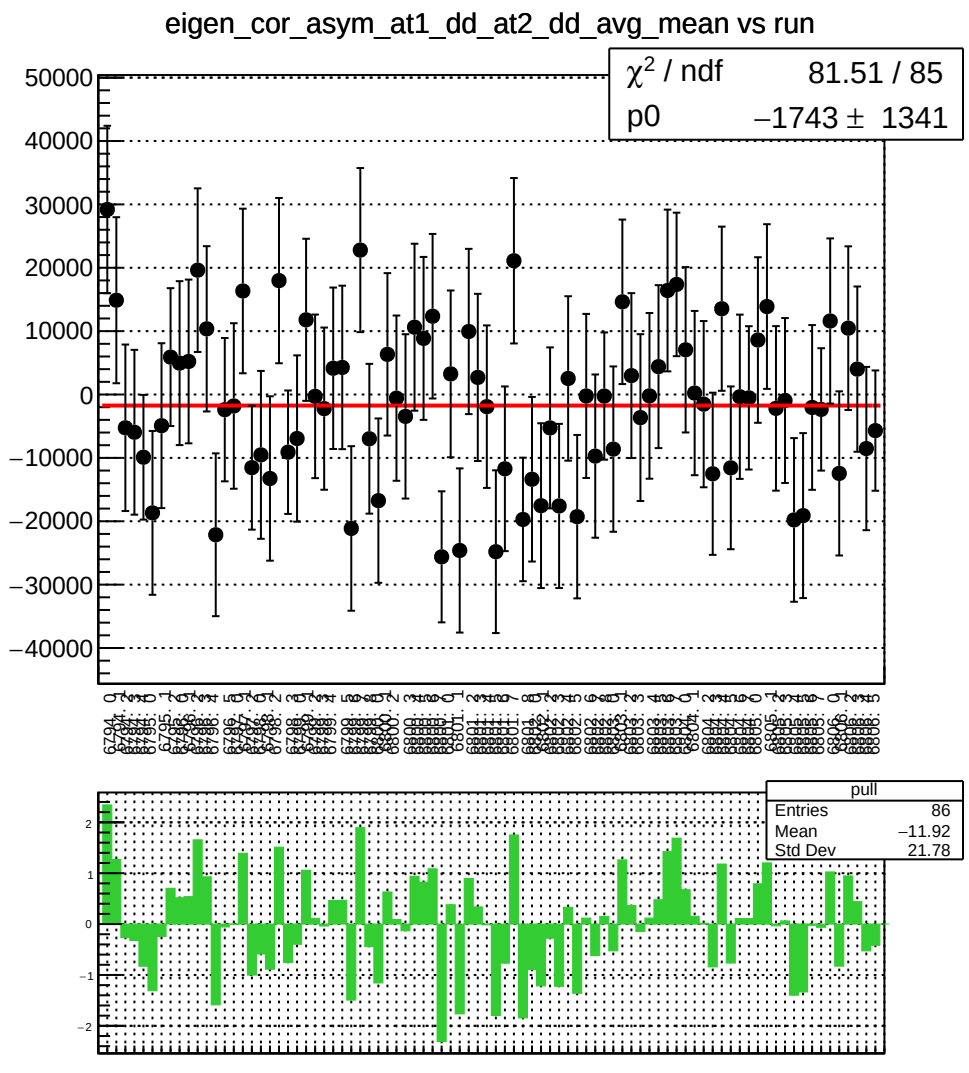

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

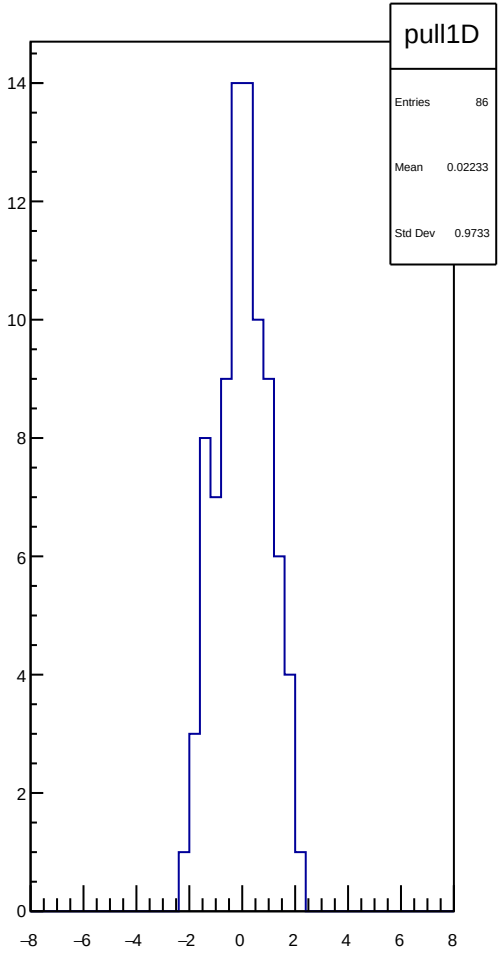

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

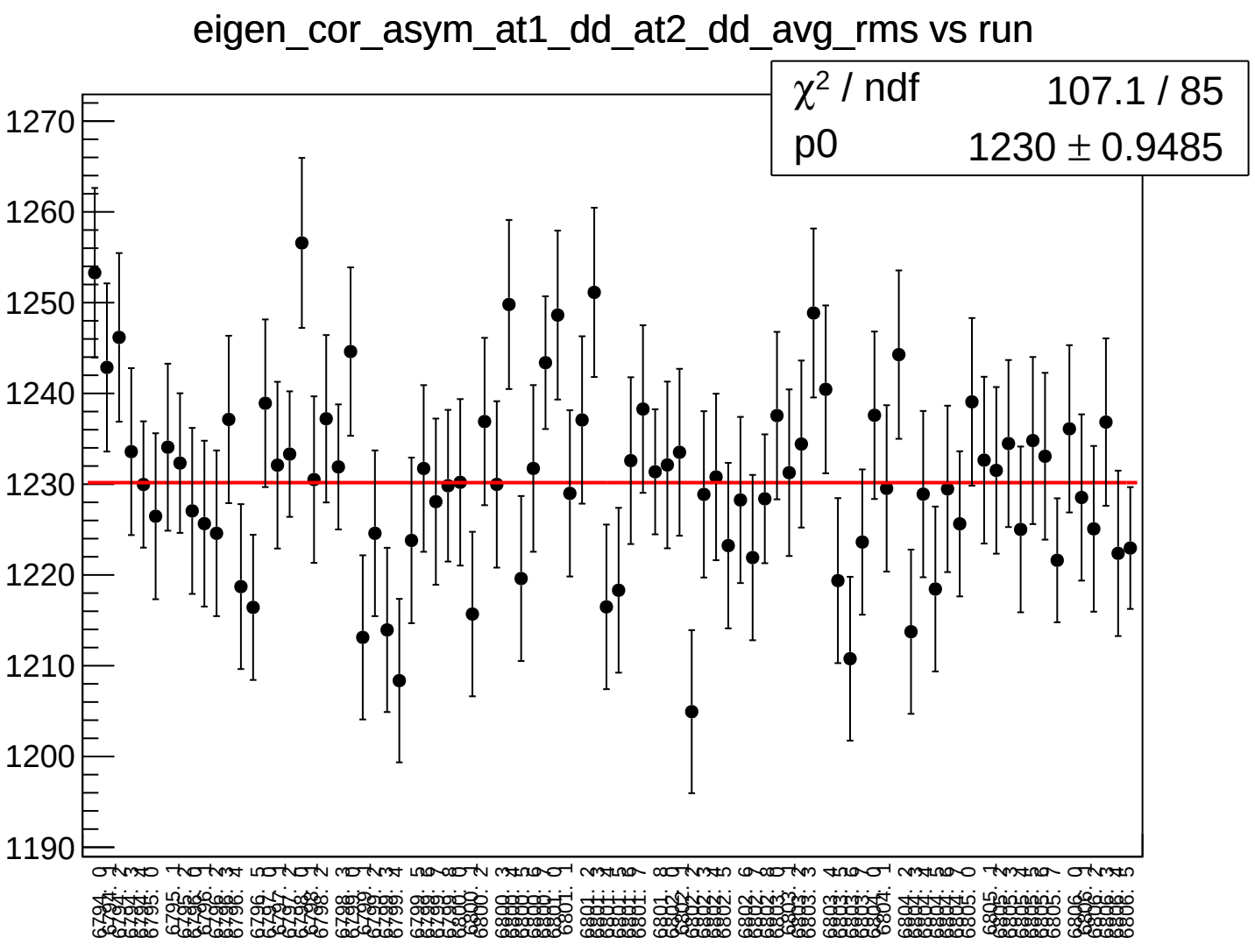

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.1 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.9
Std Dev 0
2
1
0
−1
−2

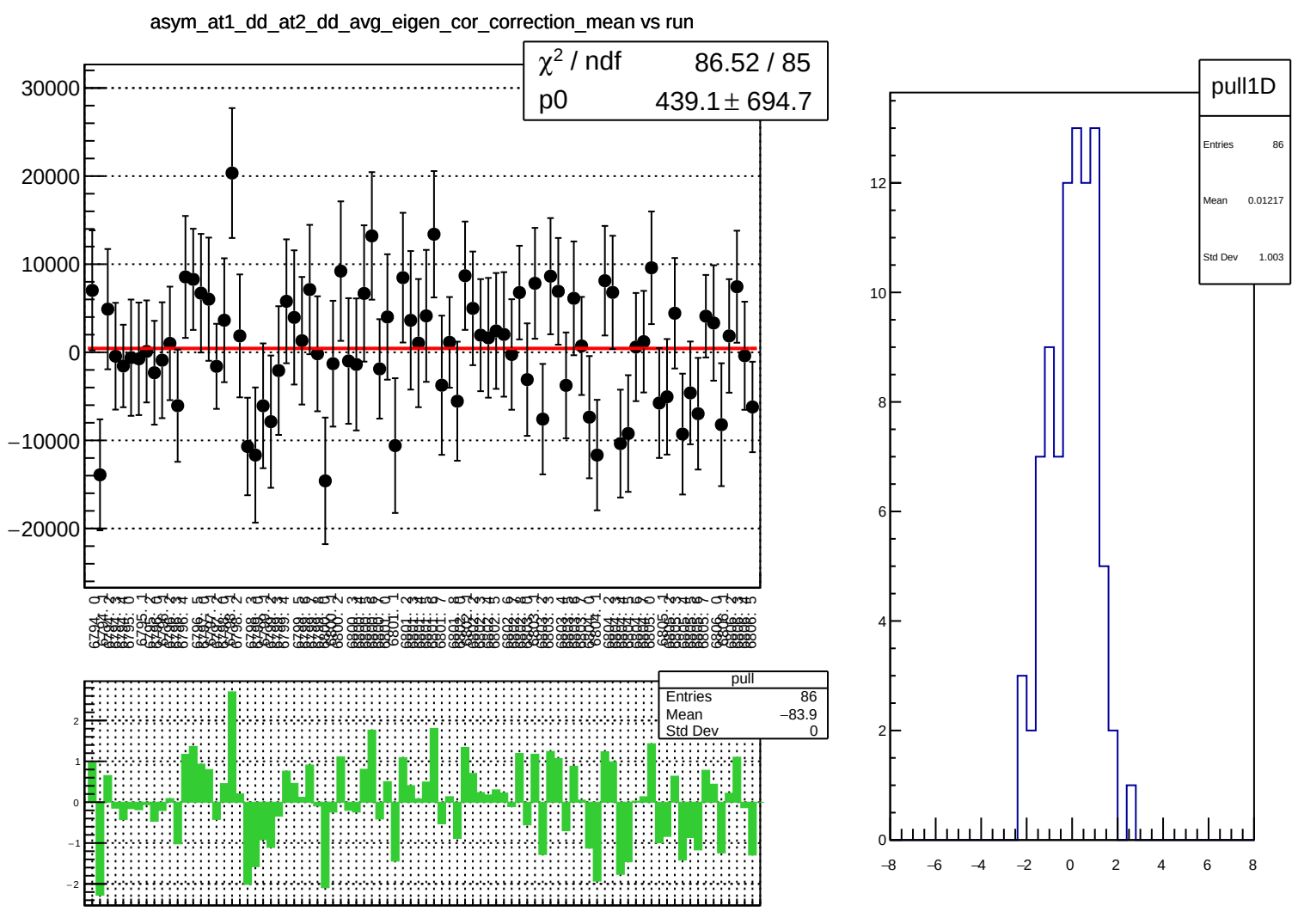

pull1D
Entries 86
Mean 0.01217
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

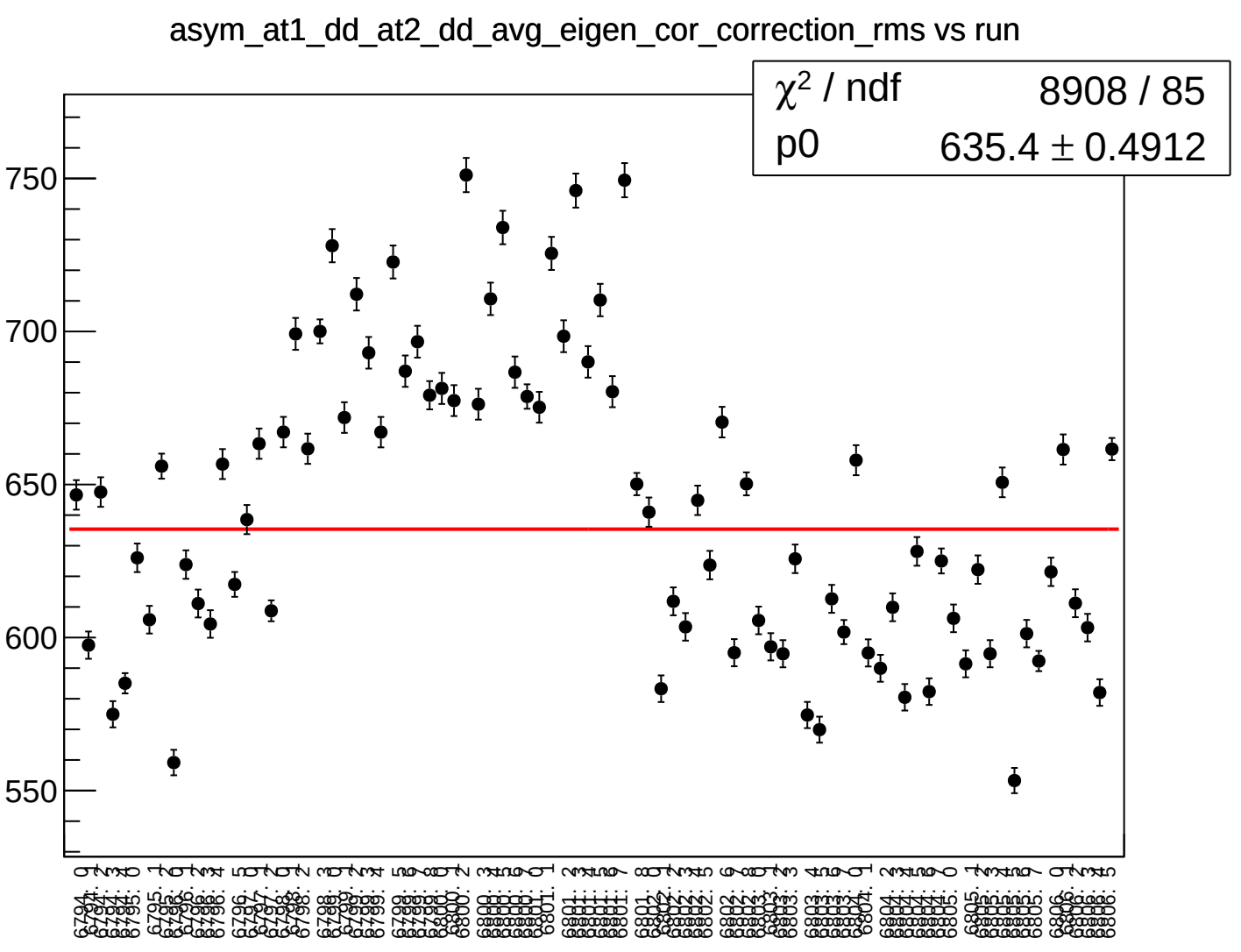

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 8908 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

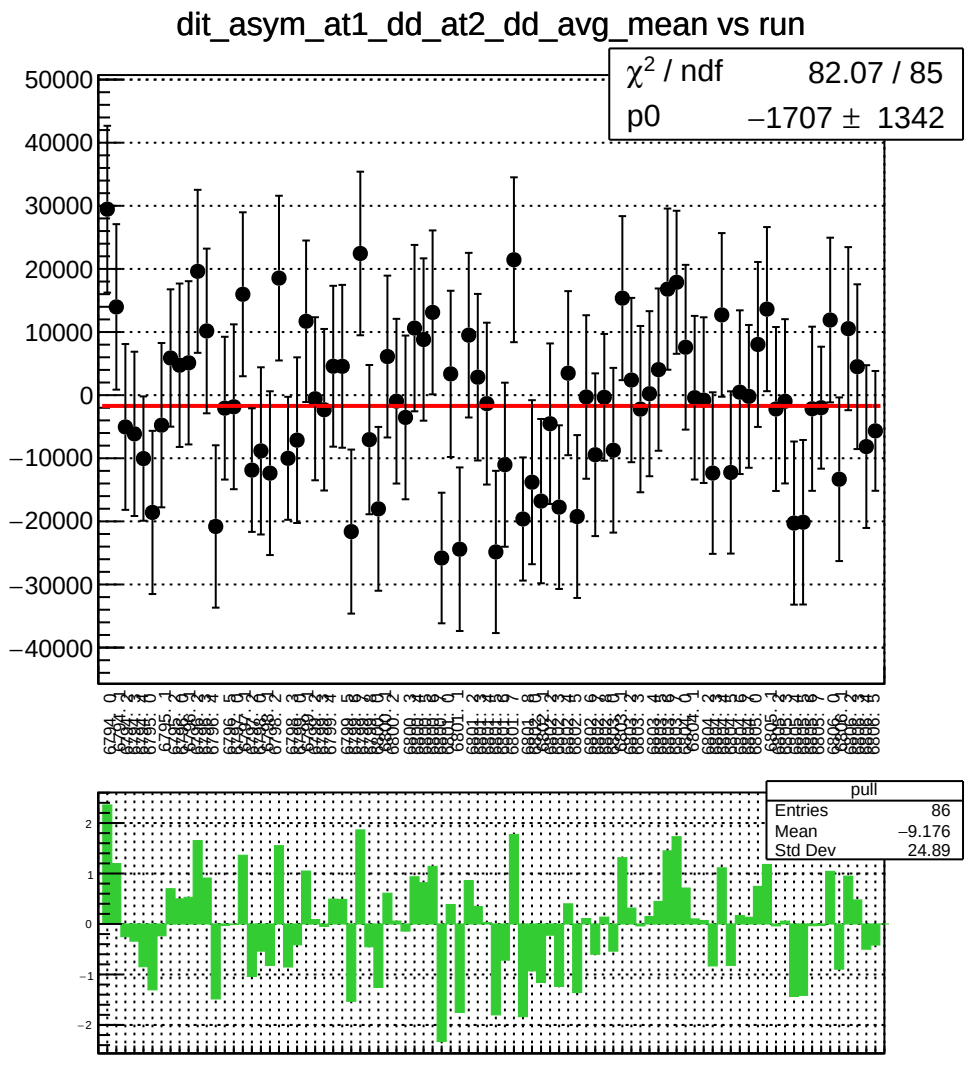

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 81.51 / 85
p0 −1743 ± 1341
pull
Entries 86
Mean −11.92
Std Dev 21.78

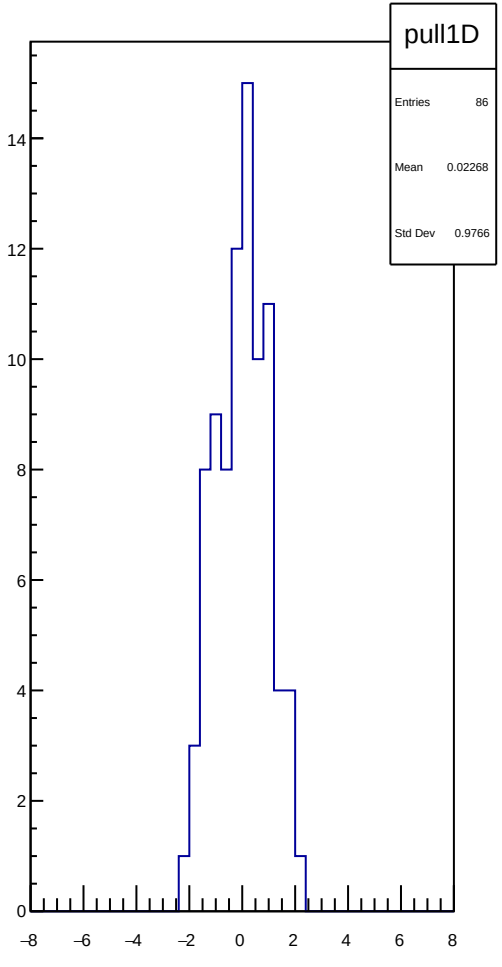

pull1D
Entries 86
Mean 0.02233
Std Dev 0.9733

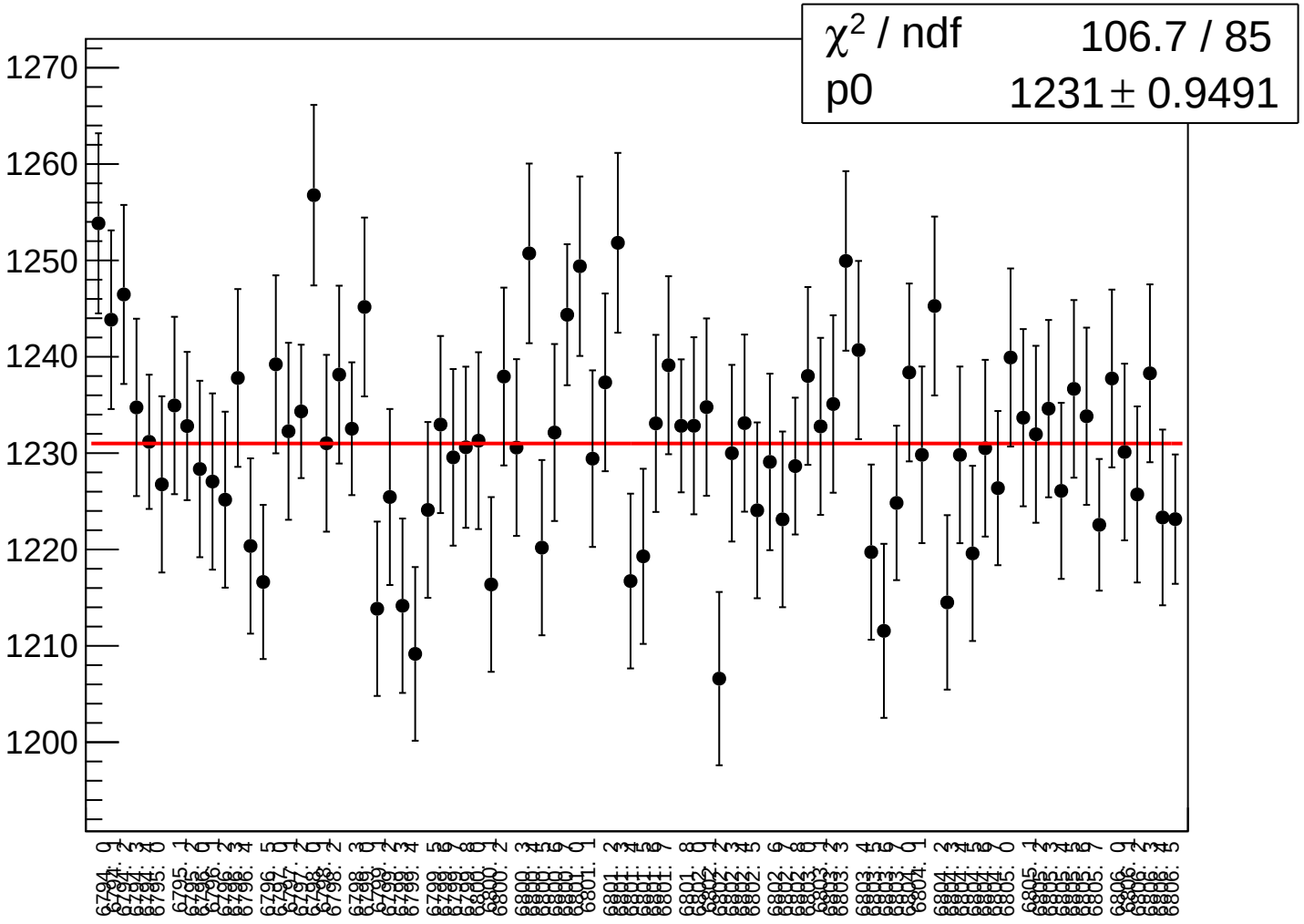

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 107.1 / 85
p0 1230 ± 0.9485
1270
1260
1250
1240
1230
1220
1210
1200
1190

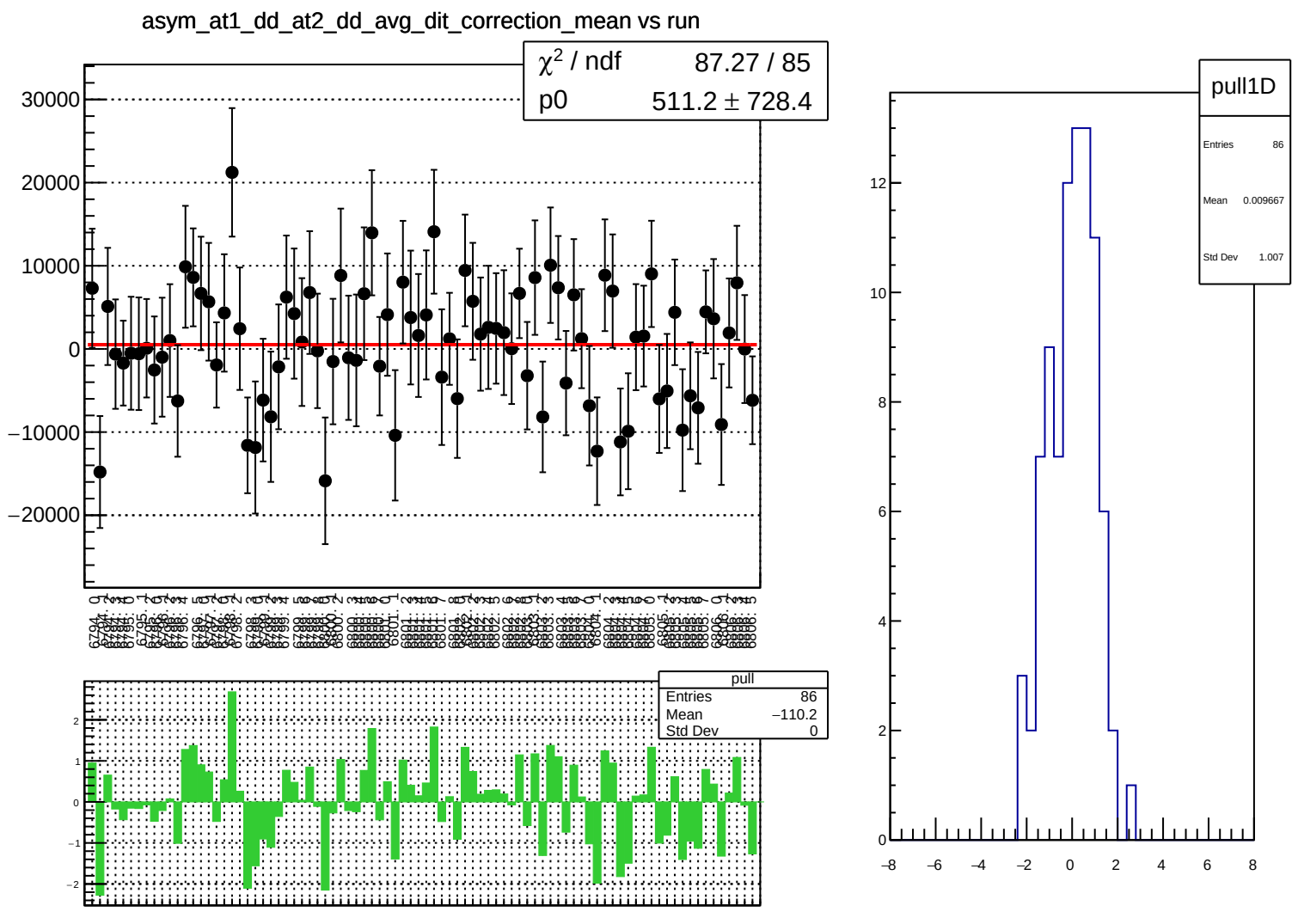

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.52 / 85
p0 439.1 ± 694.7
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −83.9
Std Dev 0
pull1D
Entries 86
Mean 0.01217
Std Dev 1.003
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

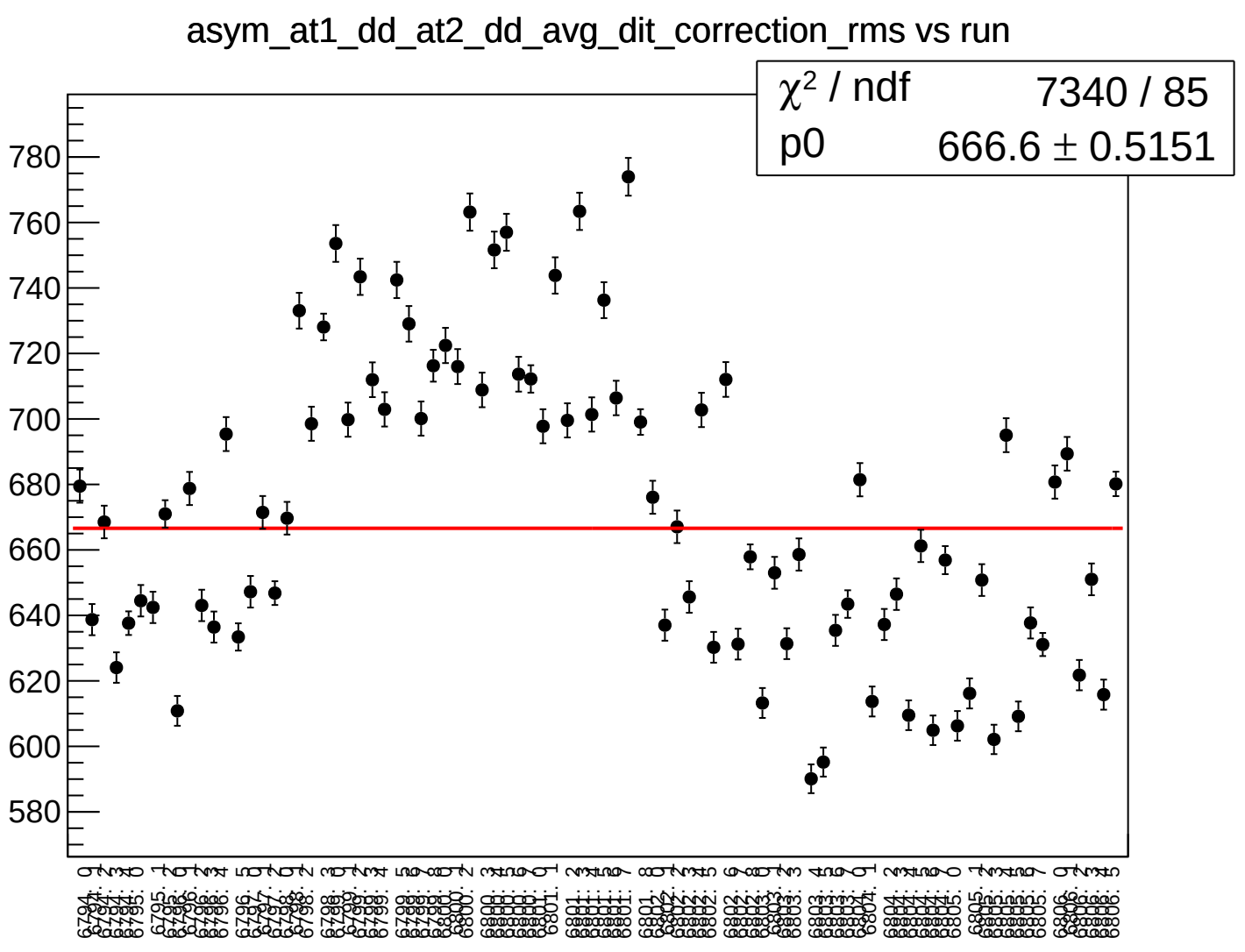

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8908 / 85
p0 635.4 ± 0.4912
750
700
650
600
550

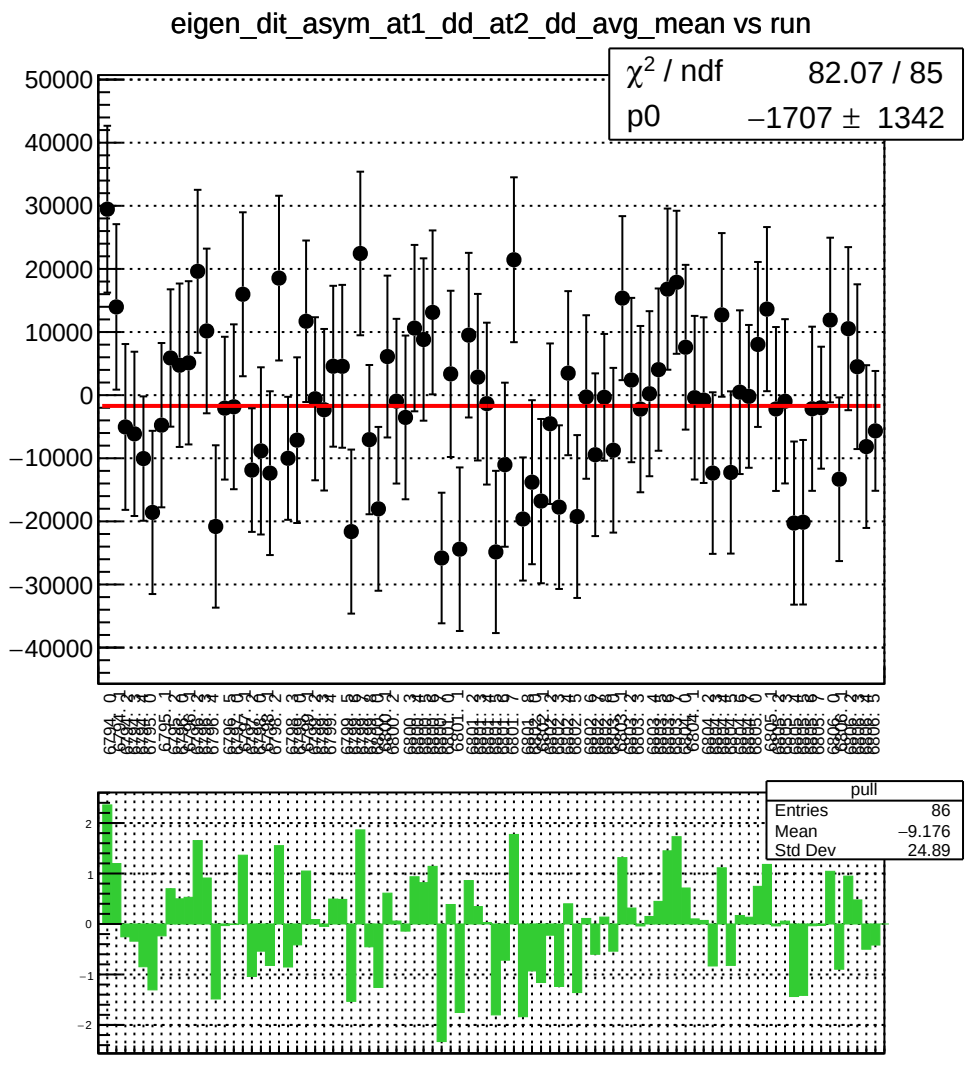

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 82.07 / 85
p0 −1707 ± 1342
pull
Entries 86
Mean −9.176
Std Dev 24.89

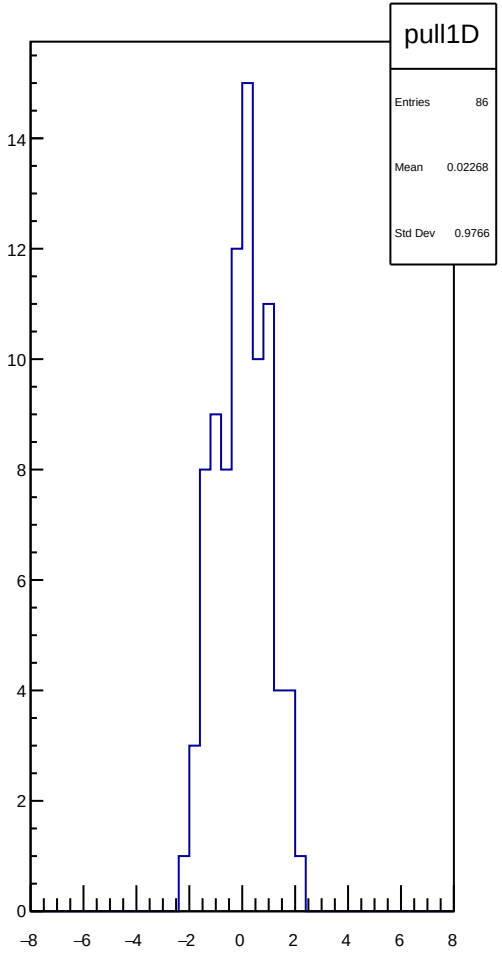

pull1D
Entries 86
Mean 0.02268
Std Dev 0.9766

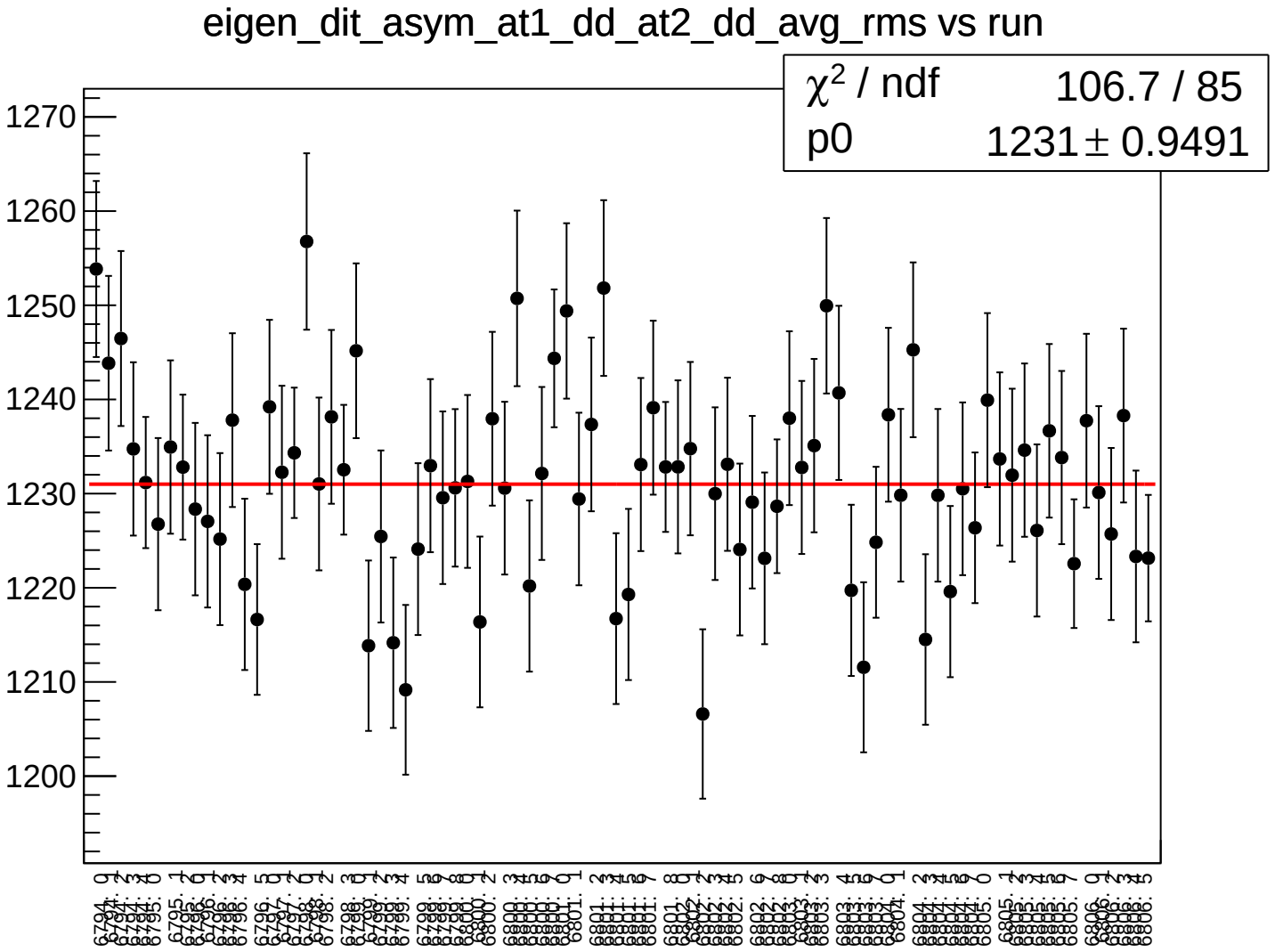

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ^2 / ndf 106.7 / 85
p0 1231 ± 0.9491
1270
1260
1250
1240
1230
1220
1210
1200

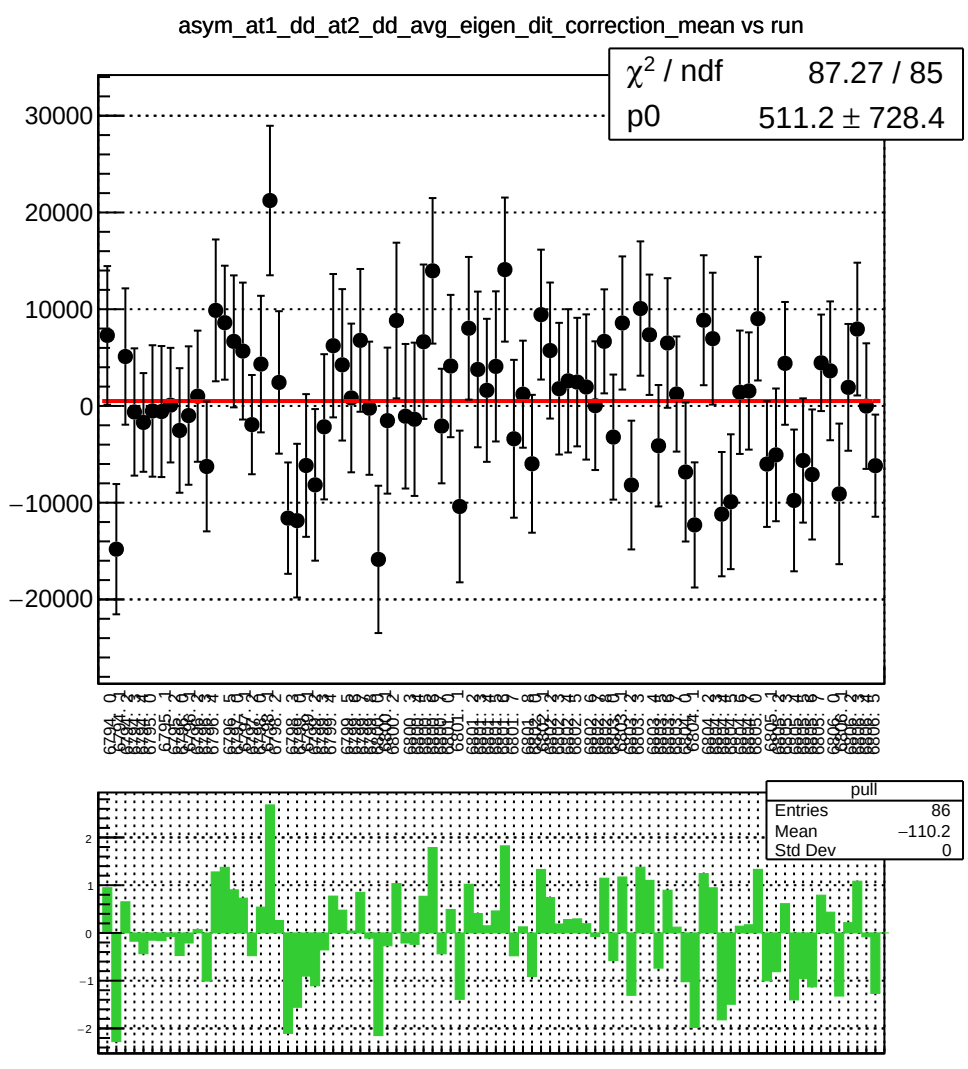

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 87.27 / 85
p0 511.2 ± 728.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −110.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.009667
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

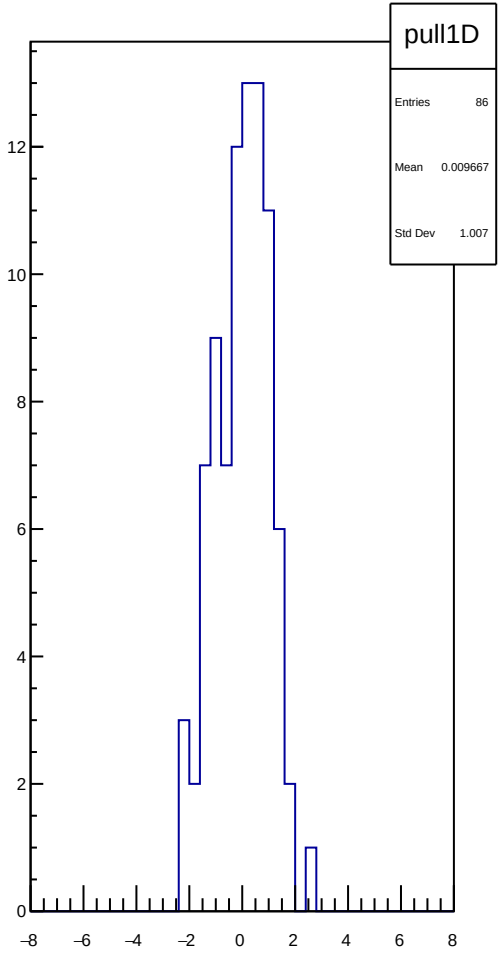

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 7340 / 85
p0 666.6 ± 0.5151
780
760
740
720
700
680
660
640
620
600
580

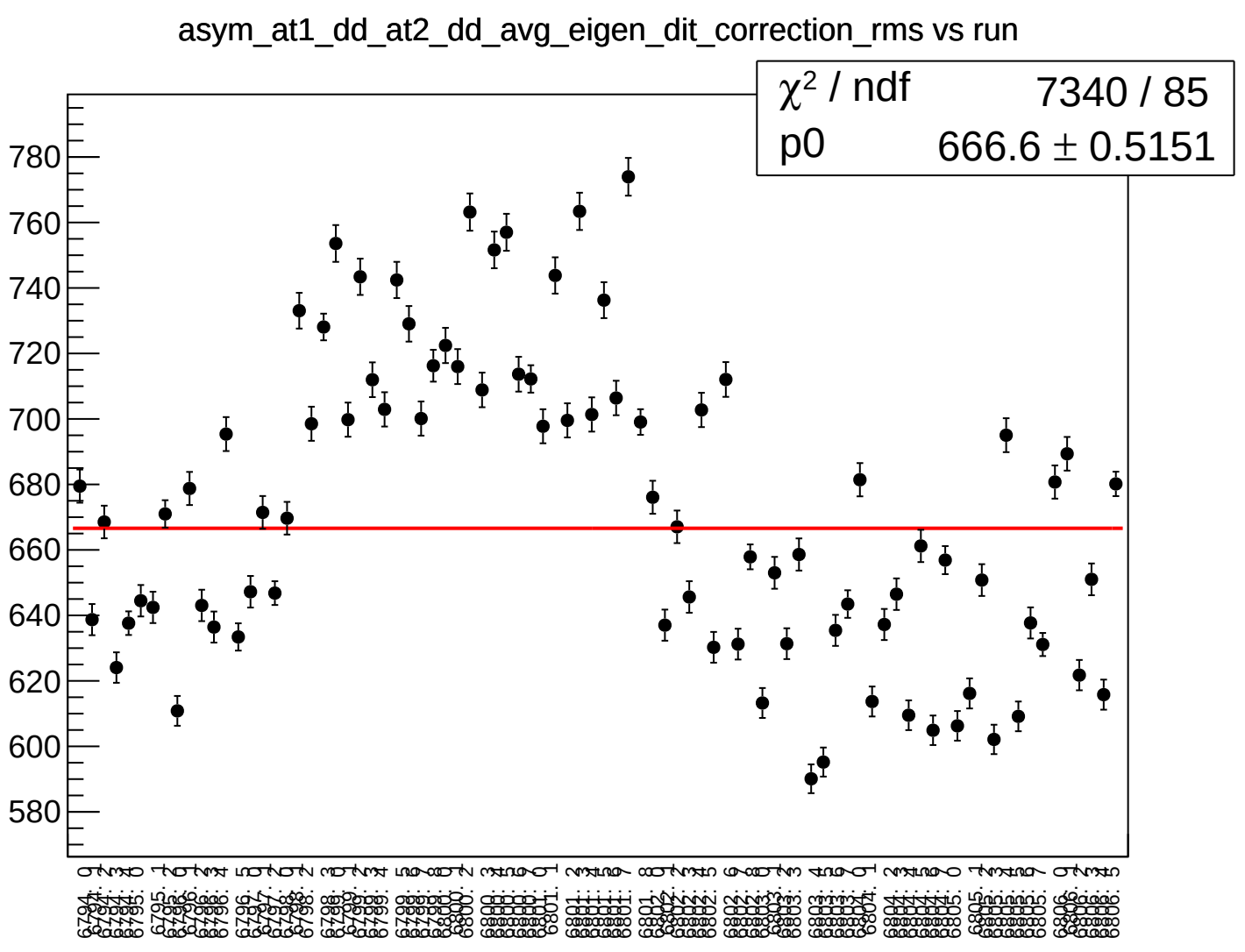

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 82.07 / 85
p0 −1707 ± 1342
pull
Entries 86
Mean −9.176
Std Dev 24.89

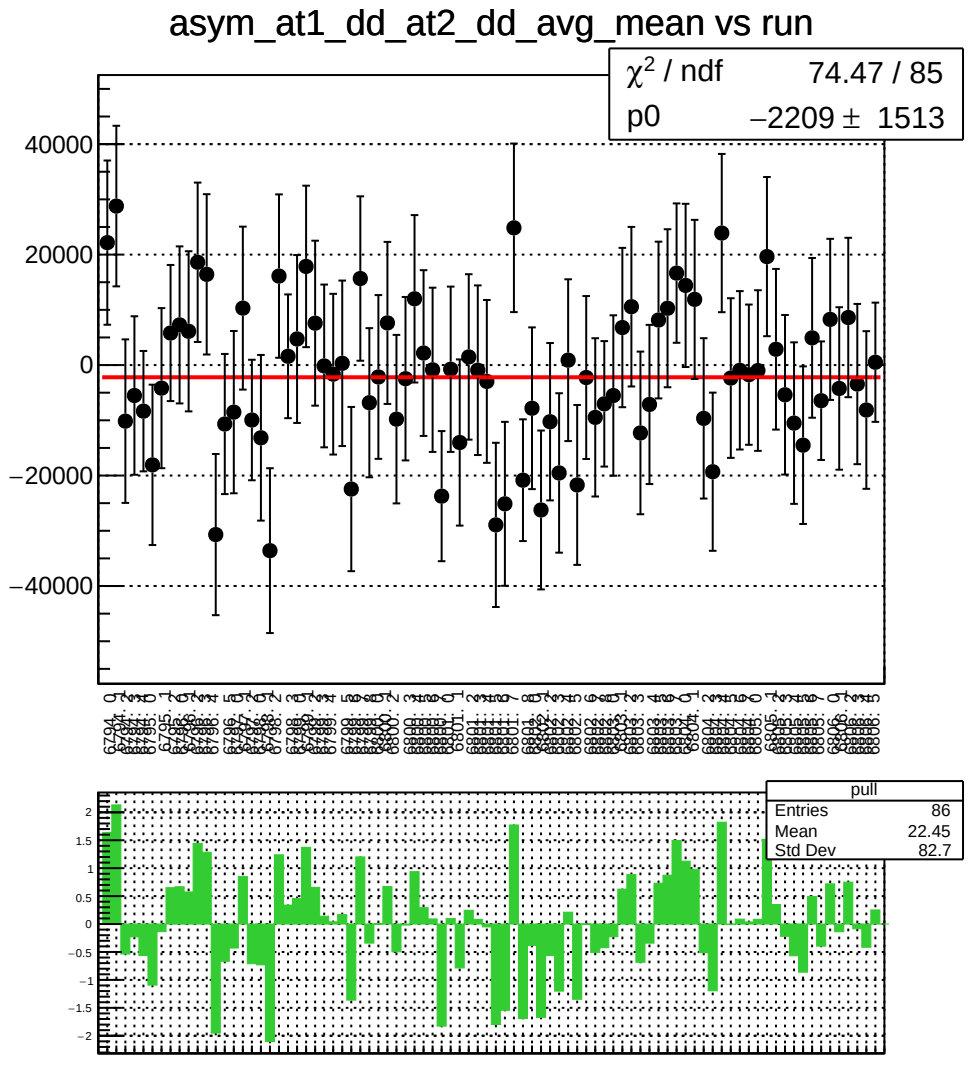

pull1D
Entries 86
Mean 0.02268
Std Dev 0.9766

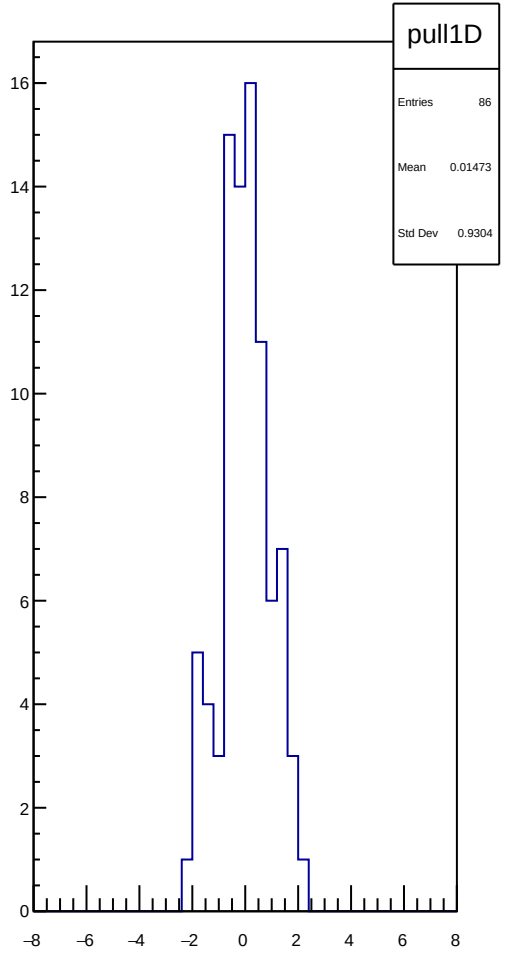

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 106.7 / 85
p0 1231 ± 0.9491
1270
1260
1250
1240
1230
1220
1210
1200

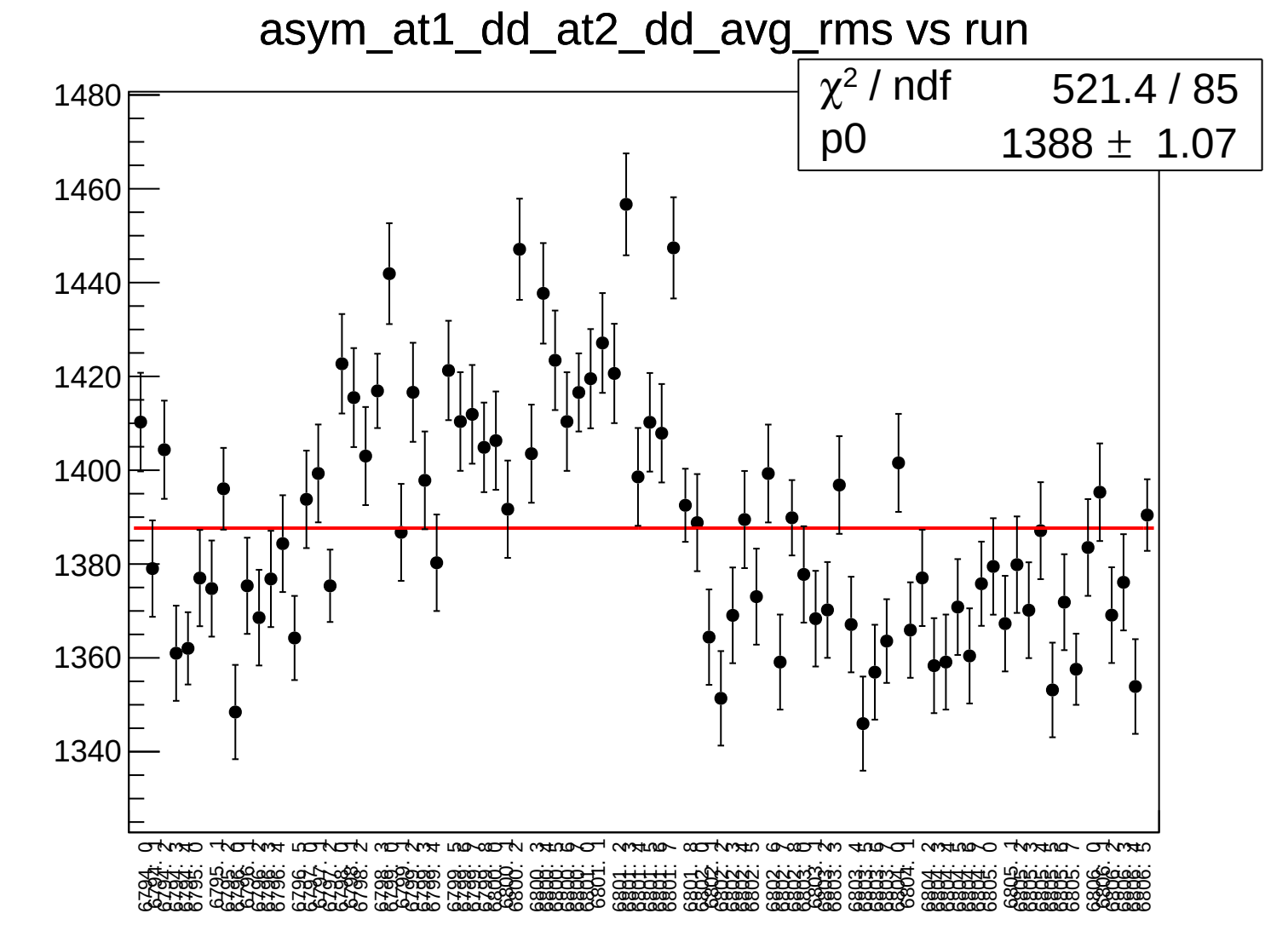

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.27 / 85
p0 511.2 ± 728.4
30000
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −110.2
Std Dev 0
2
1
0
−1
−2

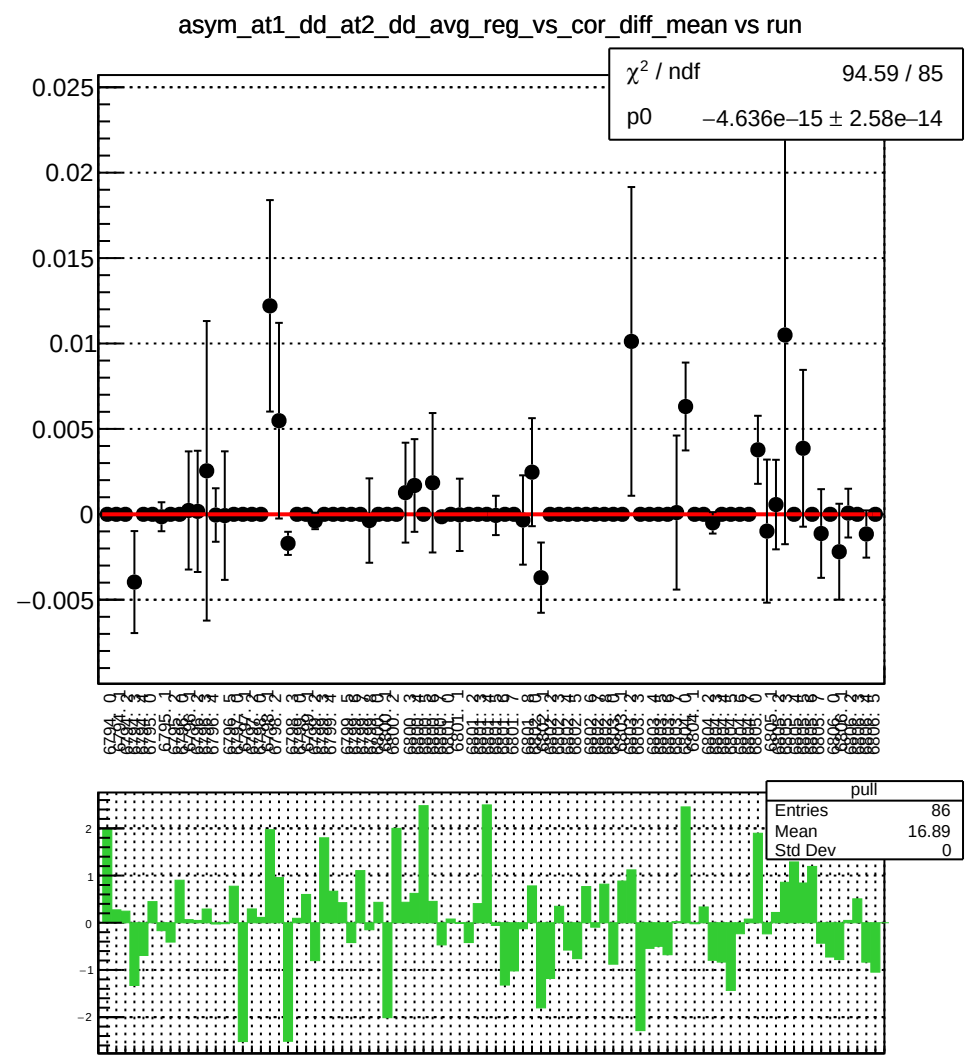

pull1D
Entries 86
Mean 0.009667
Std Dev 1.007
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

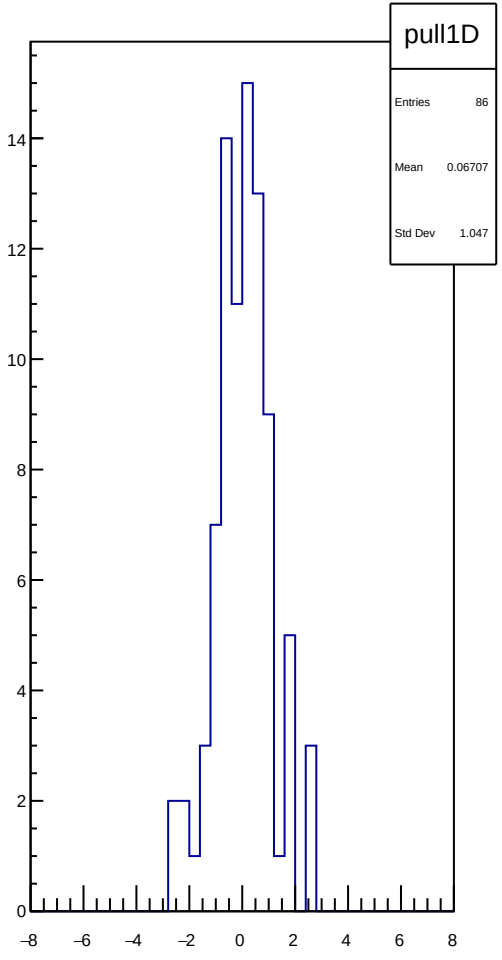

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7340 / 85
p0 666.6 ± 0.5151
780
760
740
720
700
680
660
640
620
600
580

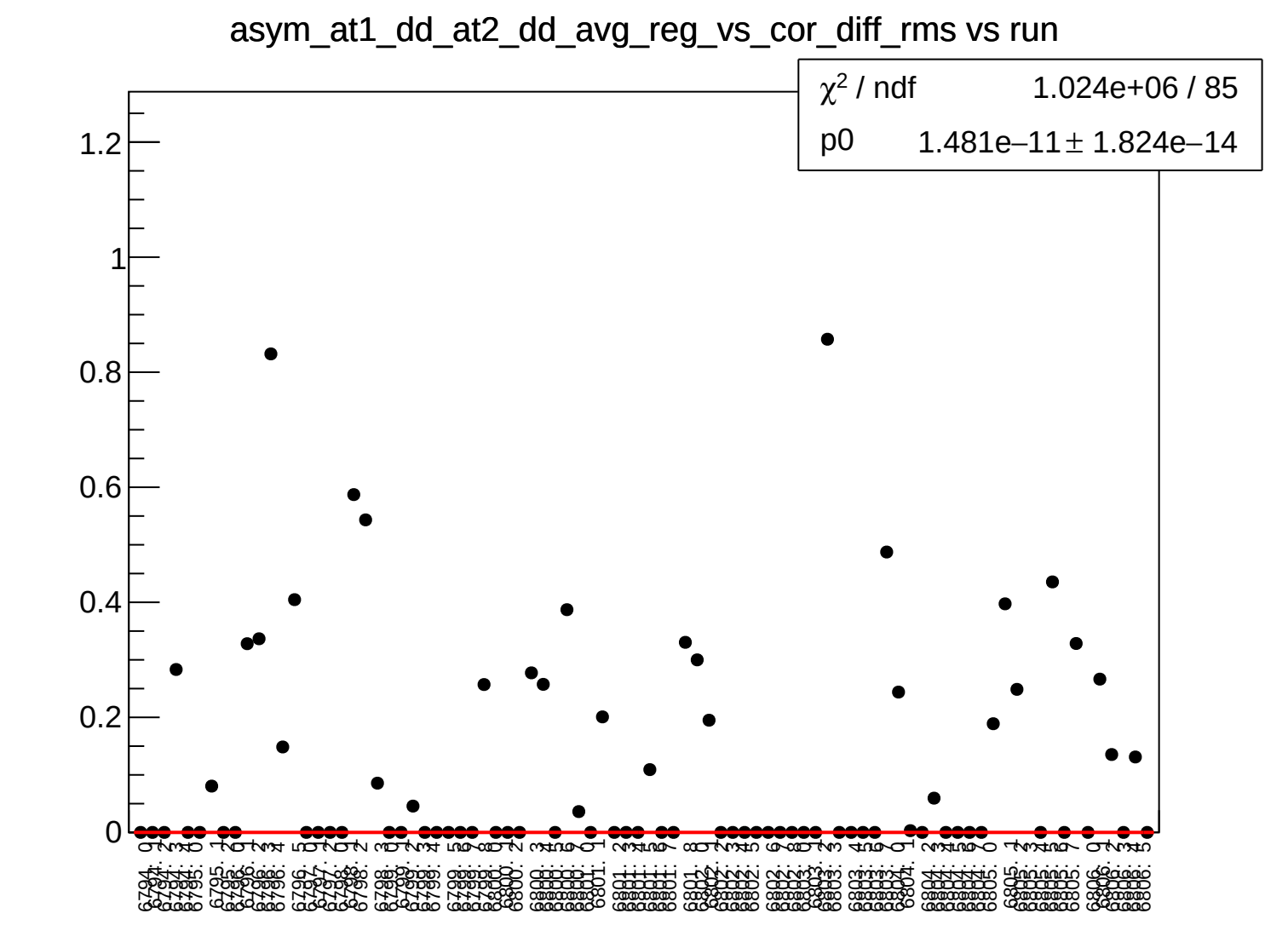

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.47 / 85
p0 −2209 ± 1513
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 22.45
Std Dev 82.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

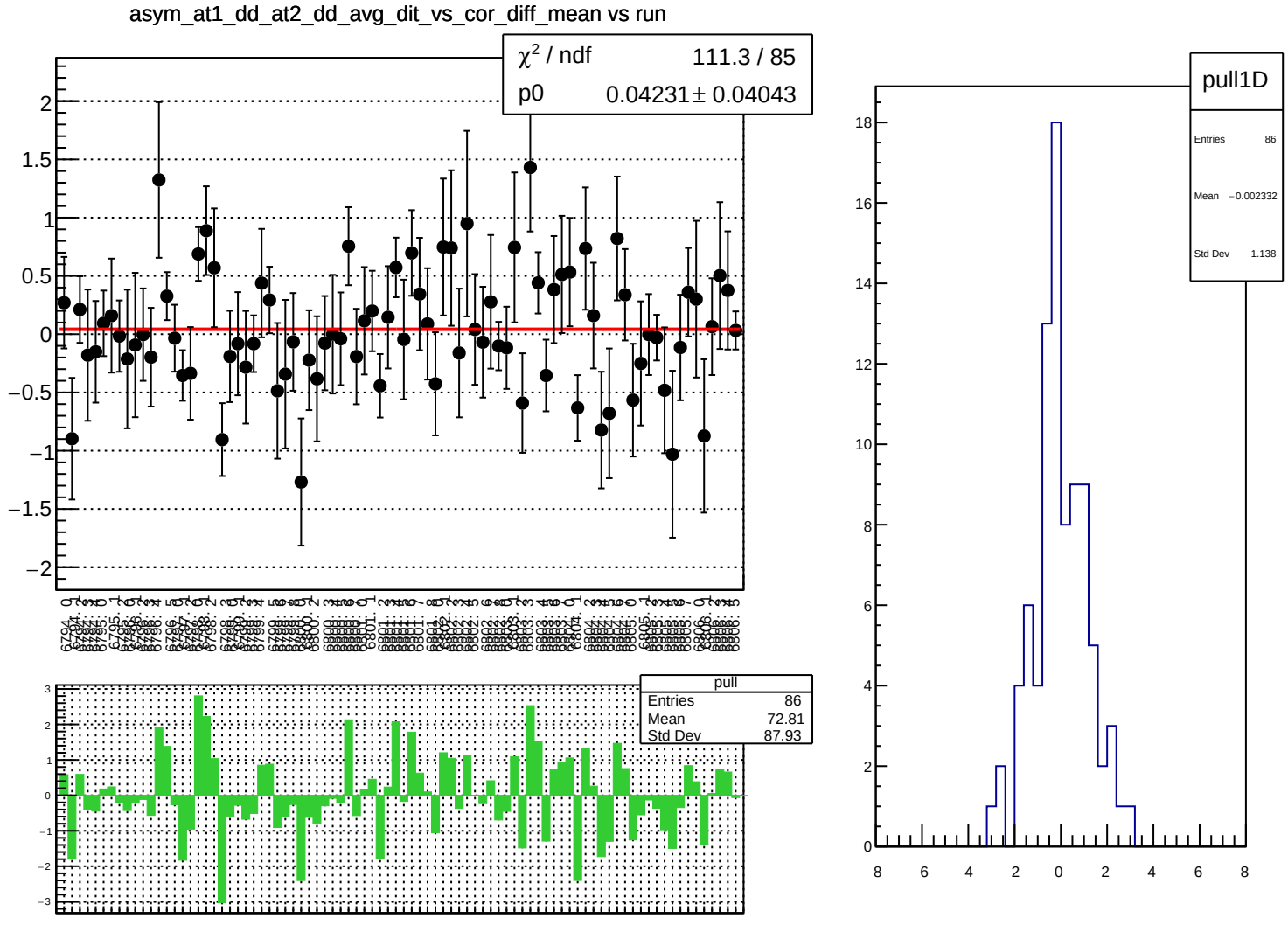

pull1D
Entries 86
Mean 0.01473
Std Dev 0.9304
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

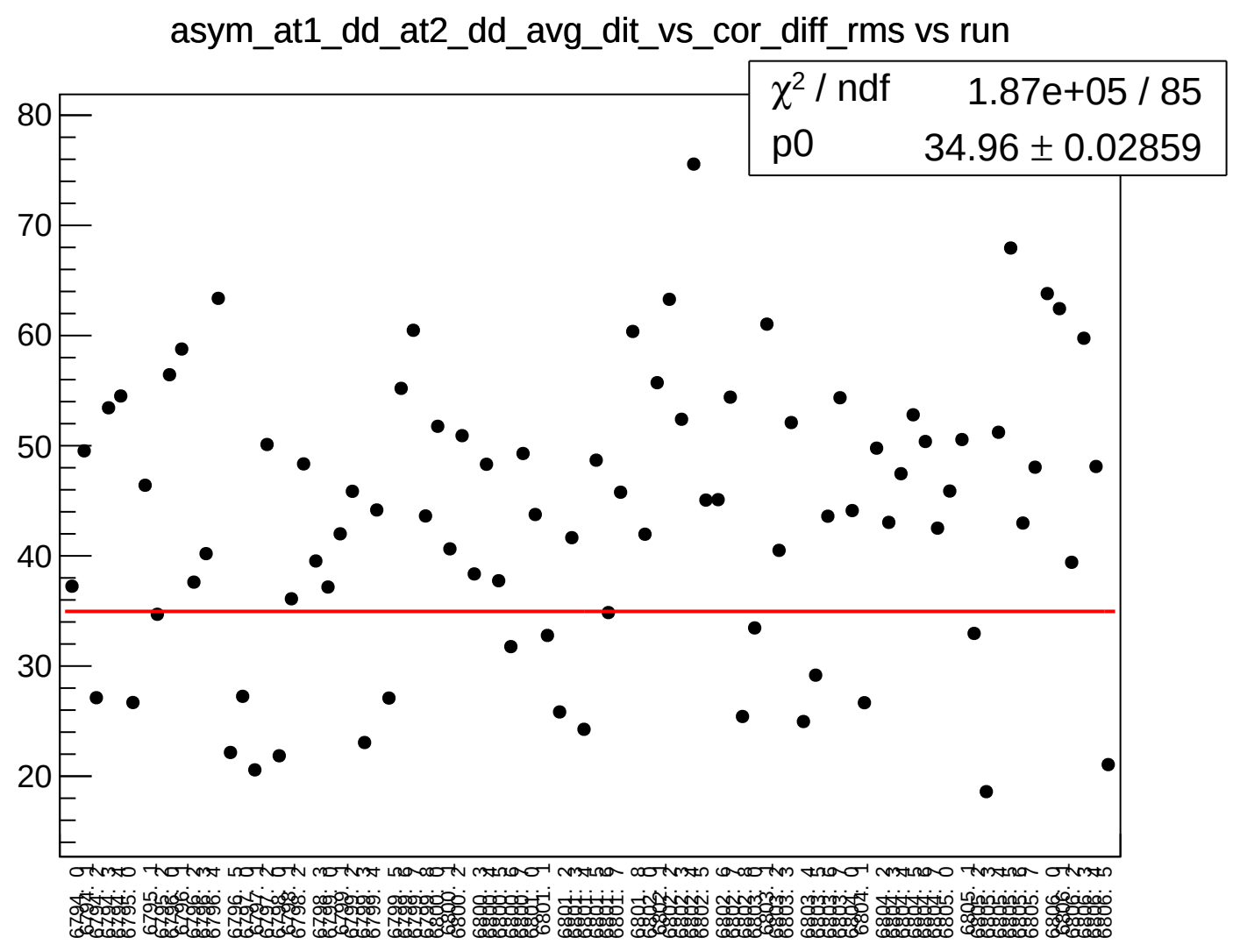

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 521.4 / 85
p0 1388 ± 1.07
1480
1460
1440
1420
1400
1380
1360
1340

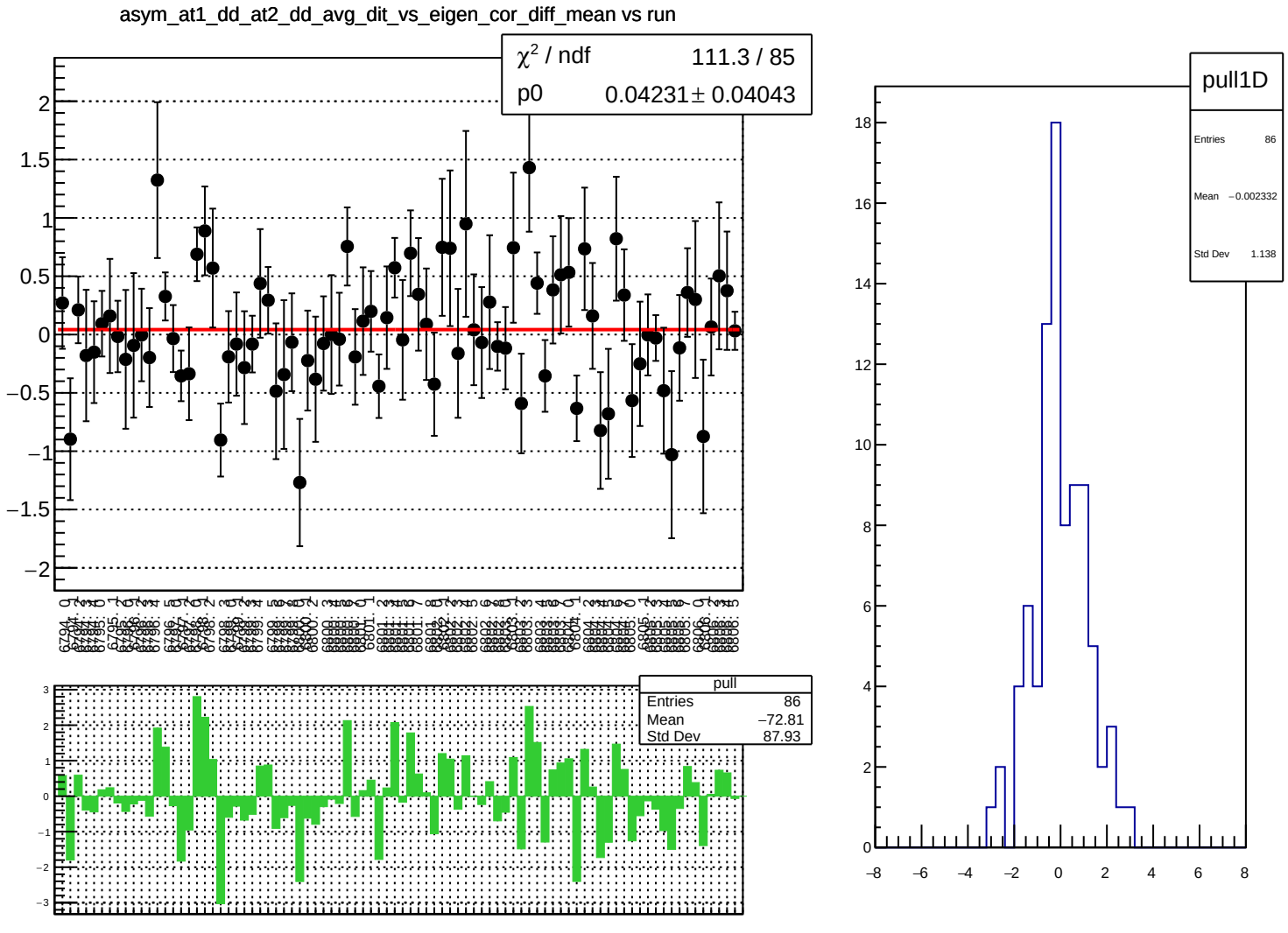

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.59 / 85
p0 −4.636e−15 ± 2.58e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 86
Mean 16.89
Std Dev 0
2
1
0
−1
−2

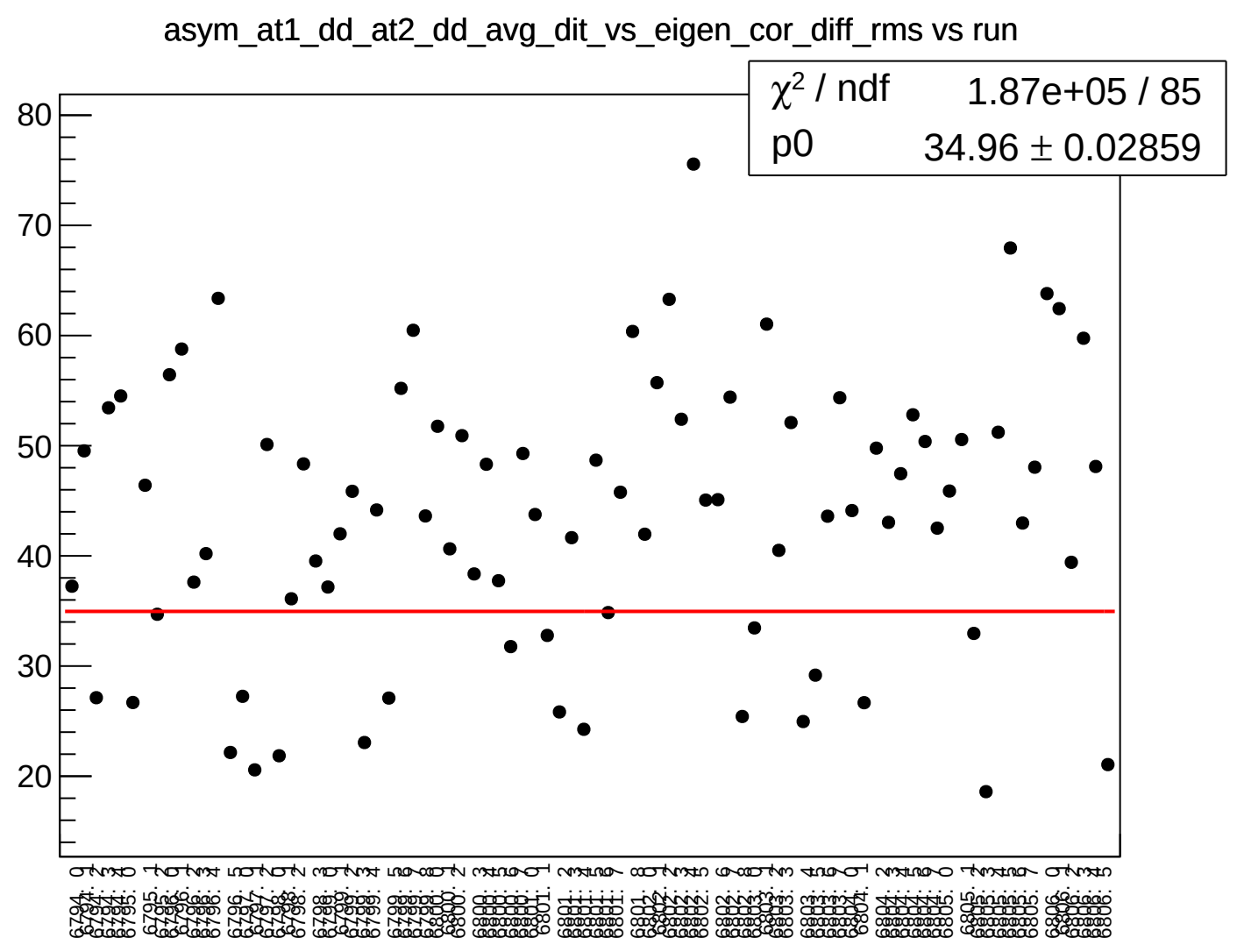

pull1D
Entries 86
Mean 0.06707
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

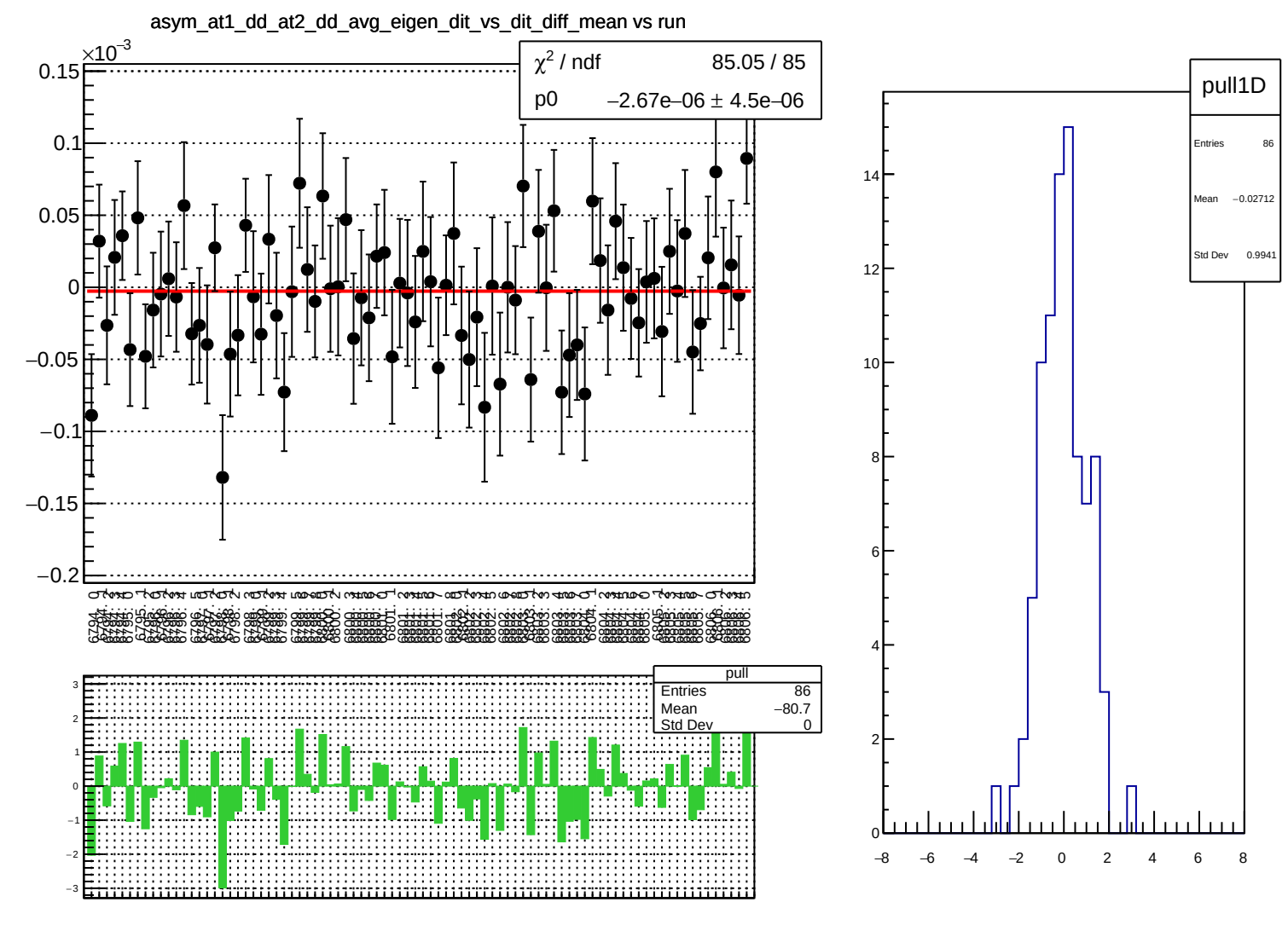

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 85
p0 1.481e−11 ± 1.824e−14
1.2
1
0.8
0.6
0.4
0.2
0

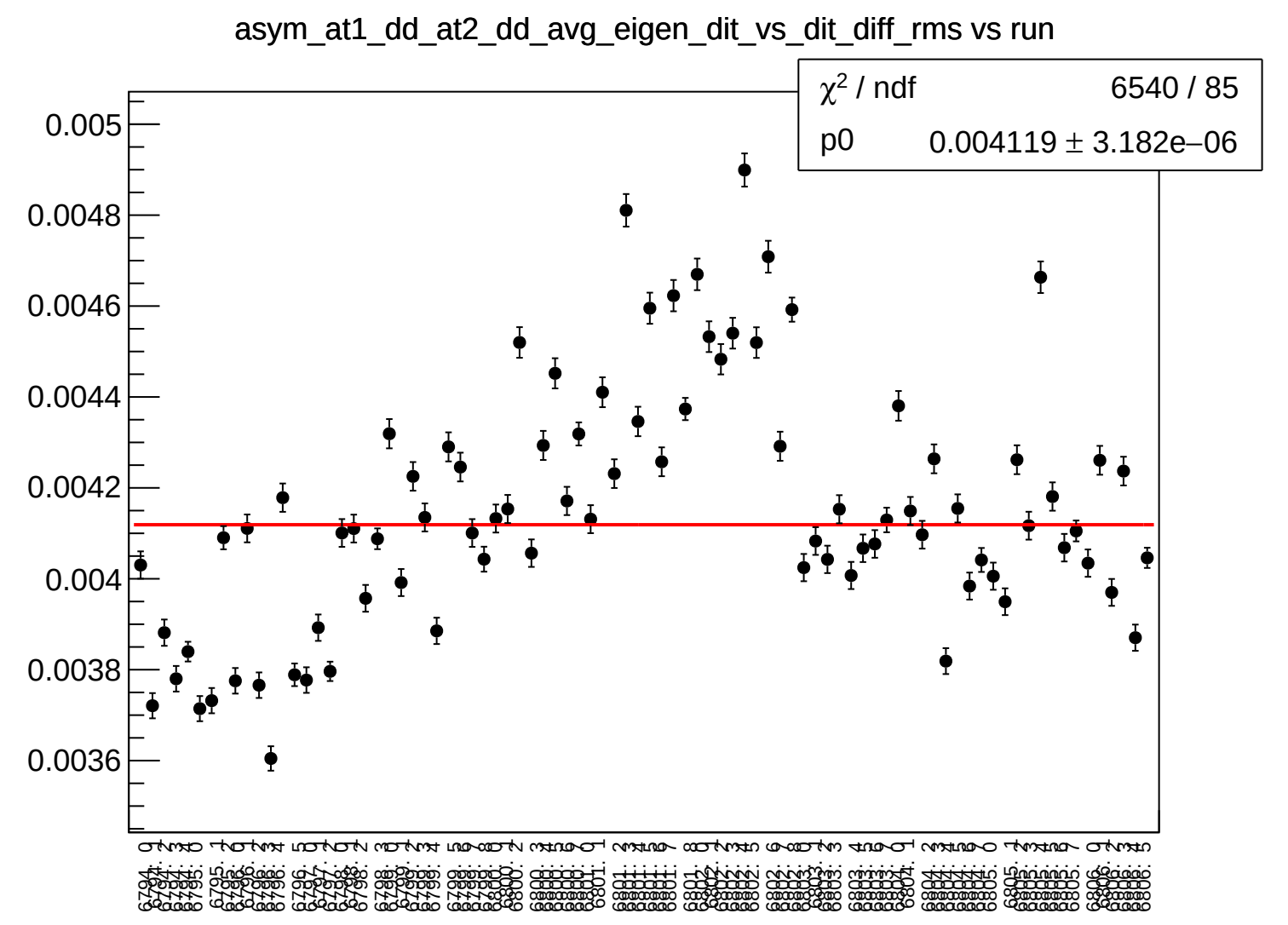

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.04231 ± 0.04043
pull
Entries 86
Mean −72.81
Std Dev 87.93
pull1D
Entries 86
Mean −0.002332
Std Dev 1.138

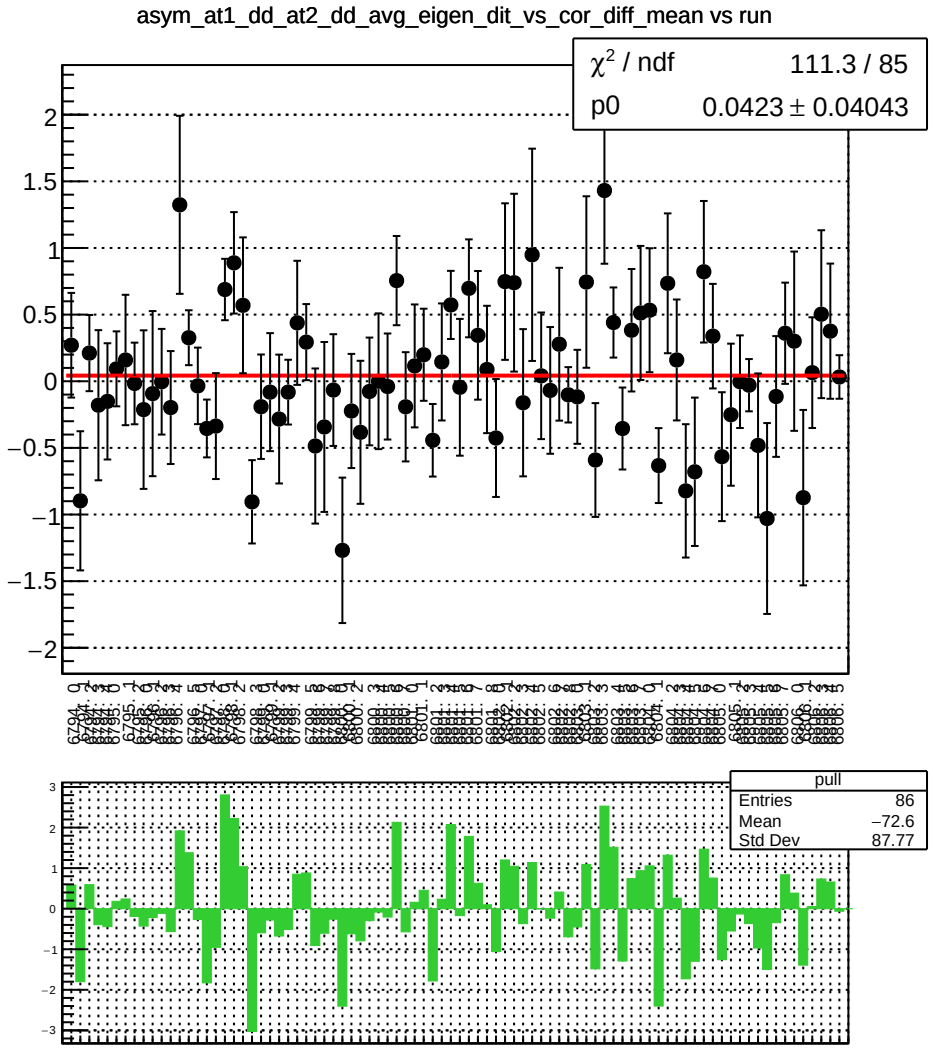

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

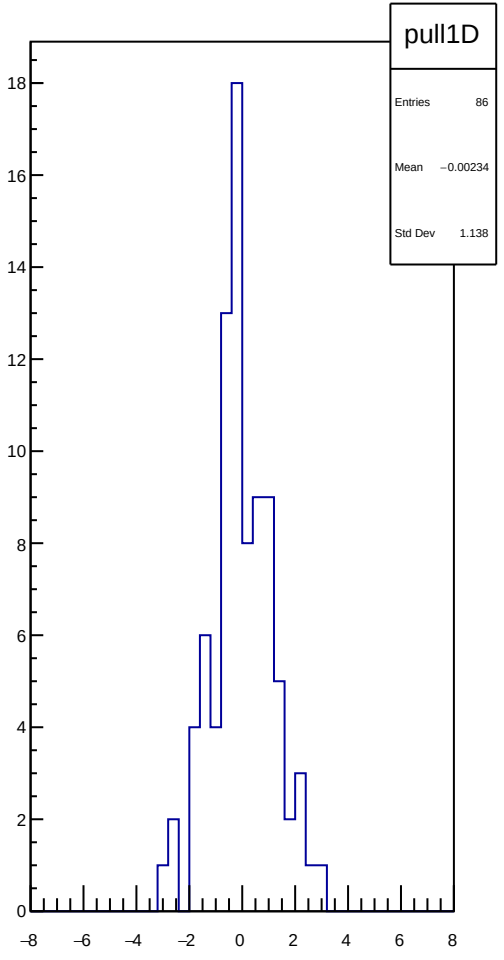

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.04231 ± 0.04043
pull
Entries 86
Mean −72.81
Std Dev 87.93
pull1D
Entries 86
Mean −0.002332
Std Dev 1.138

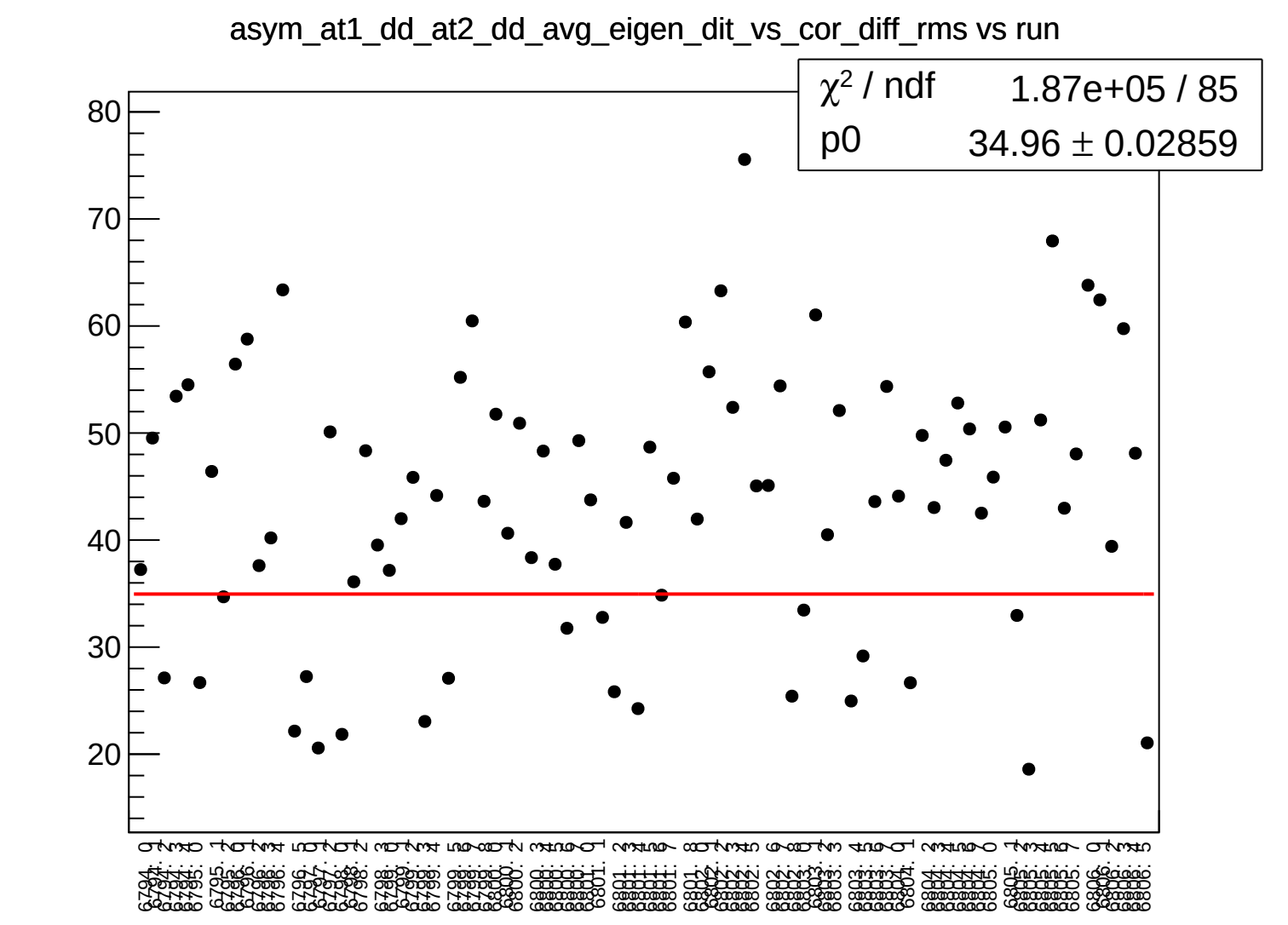

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

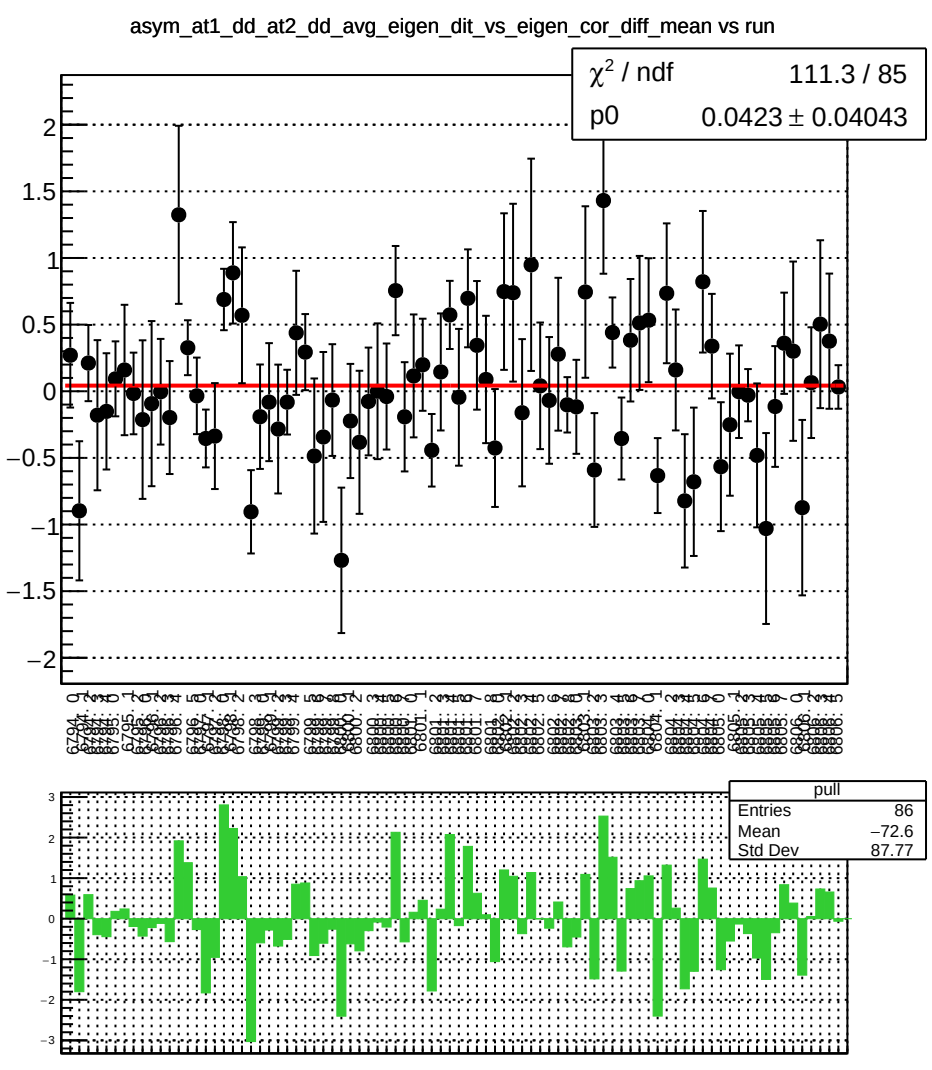

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.05 / 85
p0 −2.67e−06 ± 4.5e−06
pull
Entries 86
Mean −80.7
Std Dev 0
pull1D
Entries 86
Mean −0.02712
Std Dev 0.9941

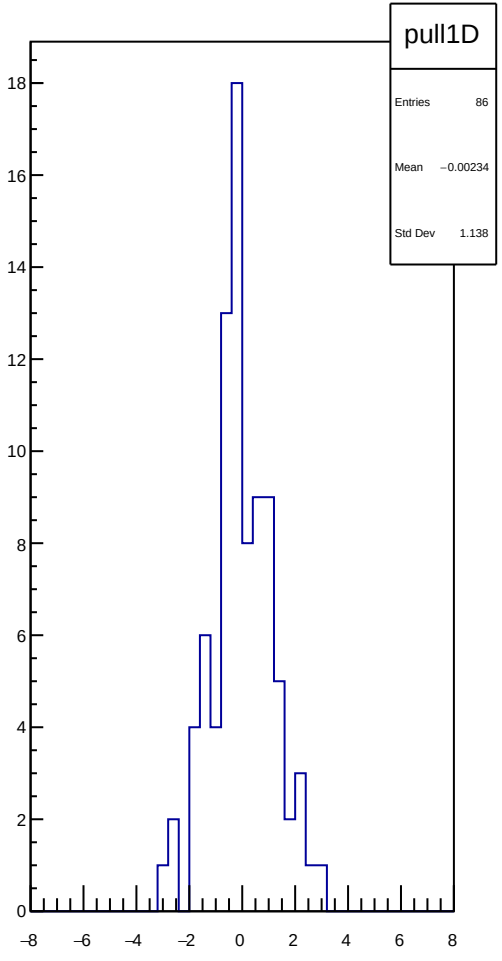

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6540 / 85
p0 0.004119 ± 3.182e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

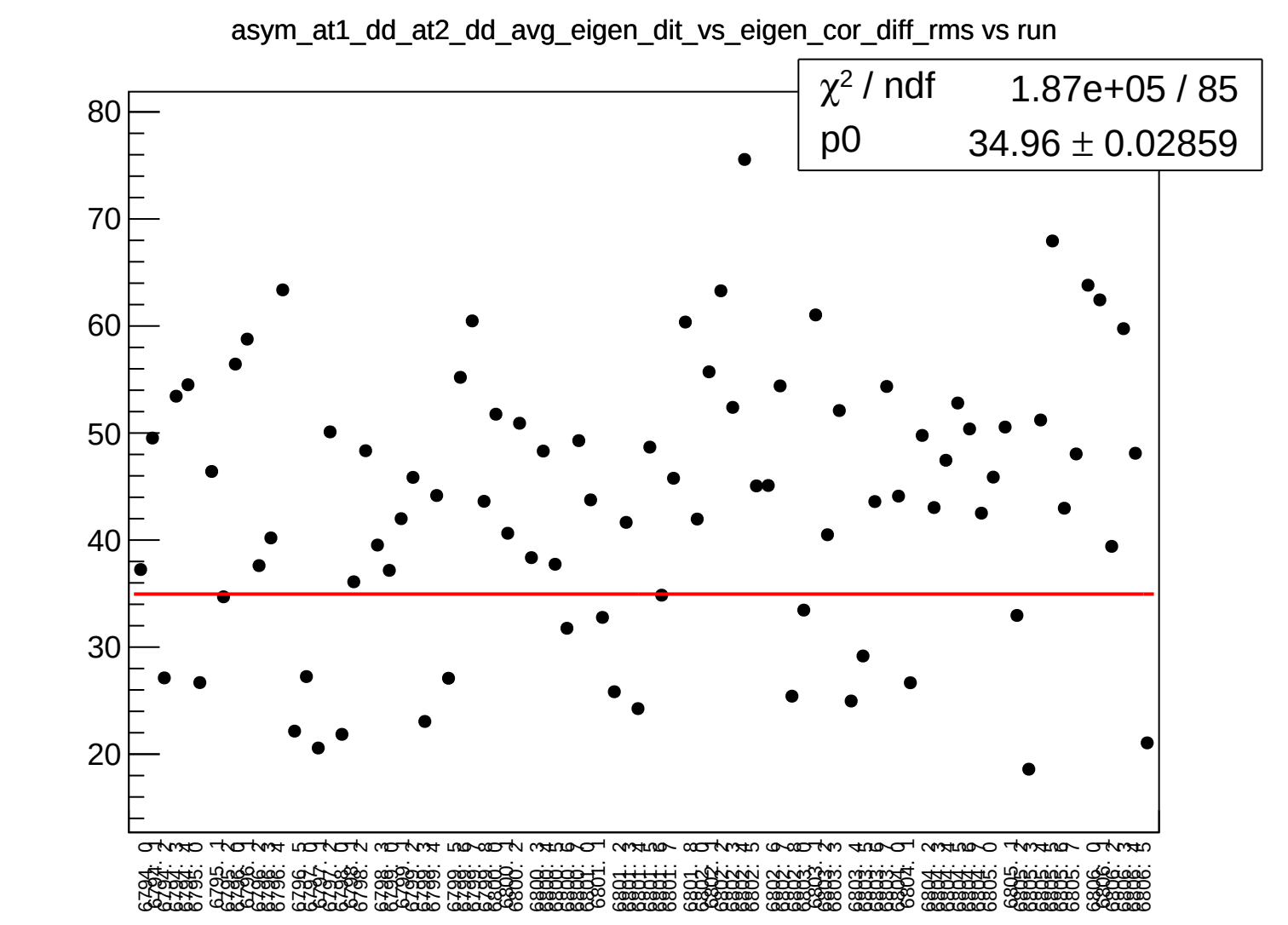

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.0423 ± 0.04043
pull
Entries 86
Mean −72.6
Std Dev 87.77

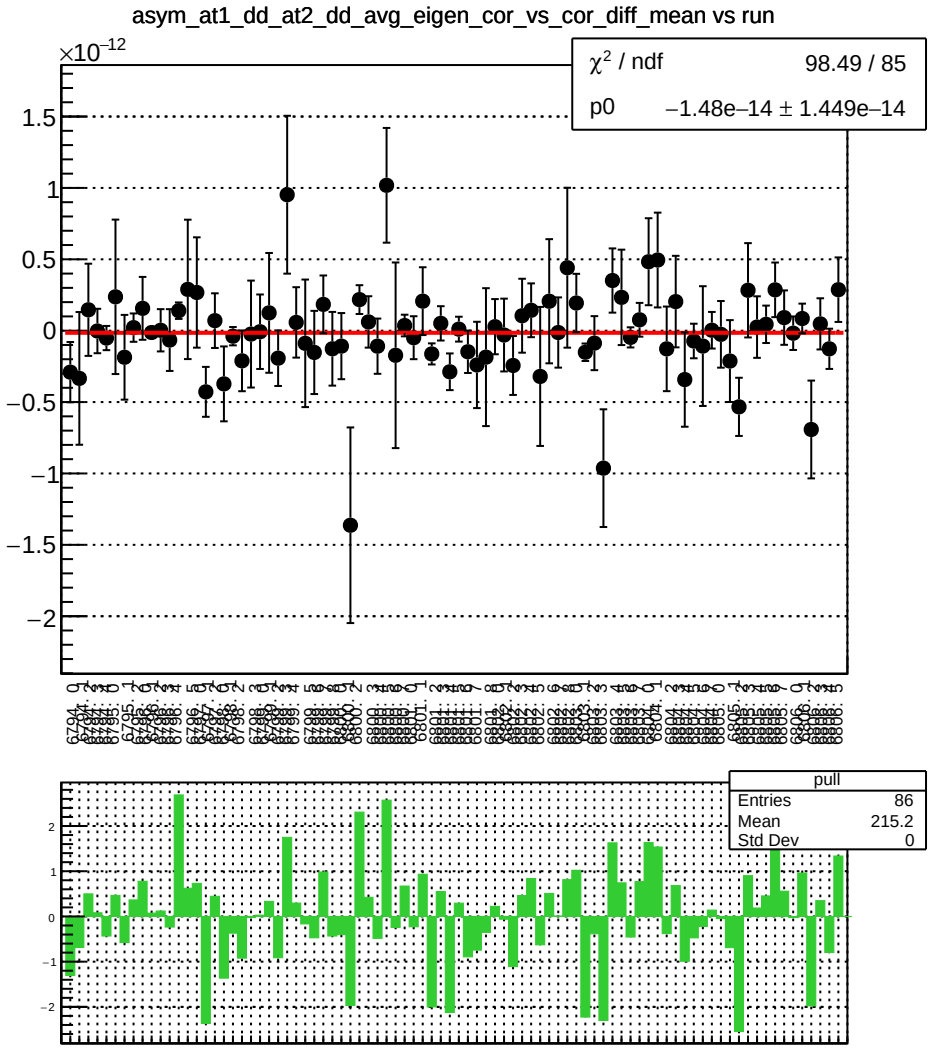

pull1D
Entries 86
Mean −0.00234
Std Dev 1.138

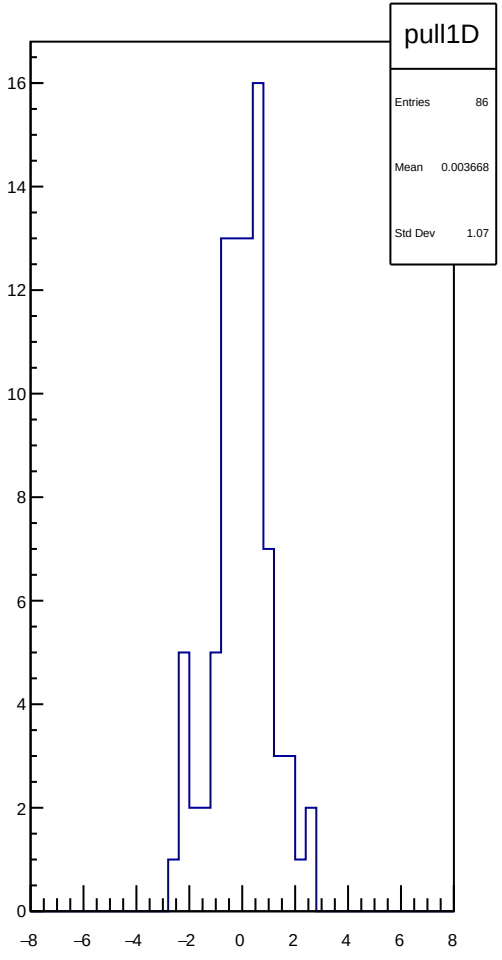

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

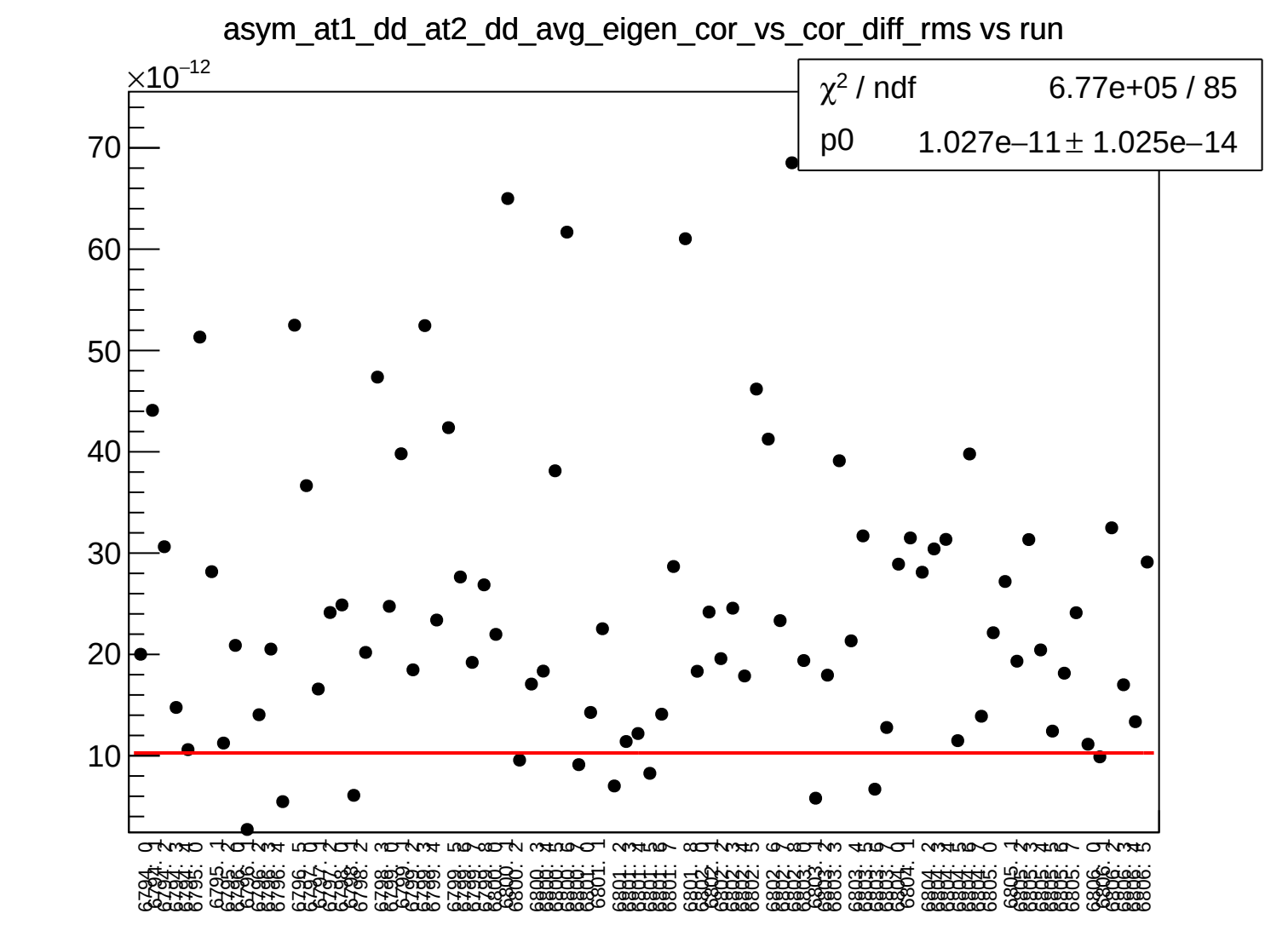

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.3 / 85
p0 0.0423 ± 0.04043
pull
Entries 86
Mean −72.6
Std Dev 87.77

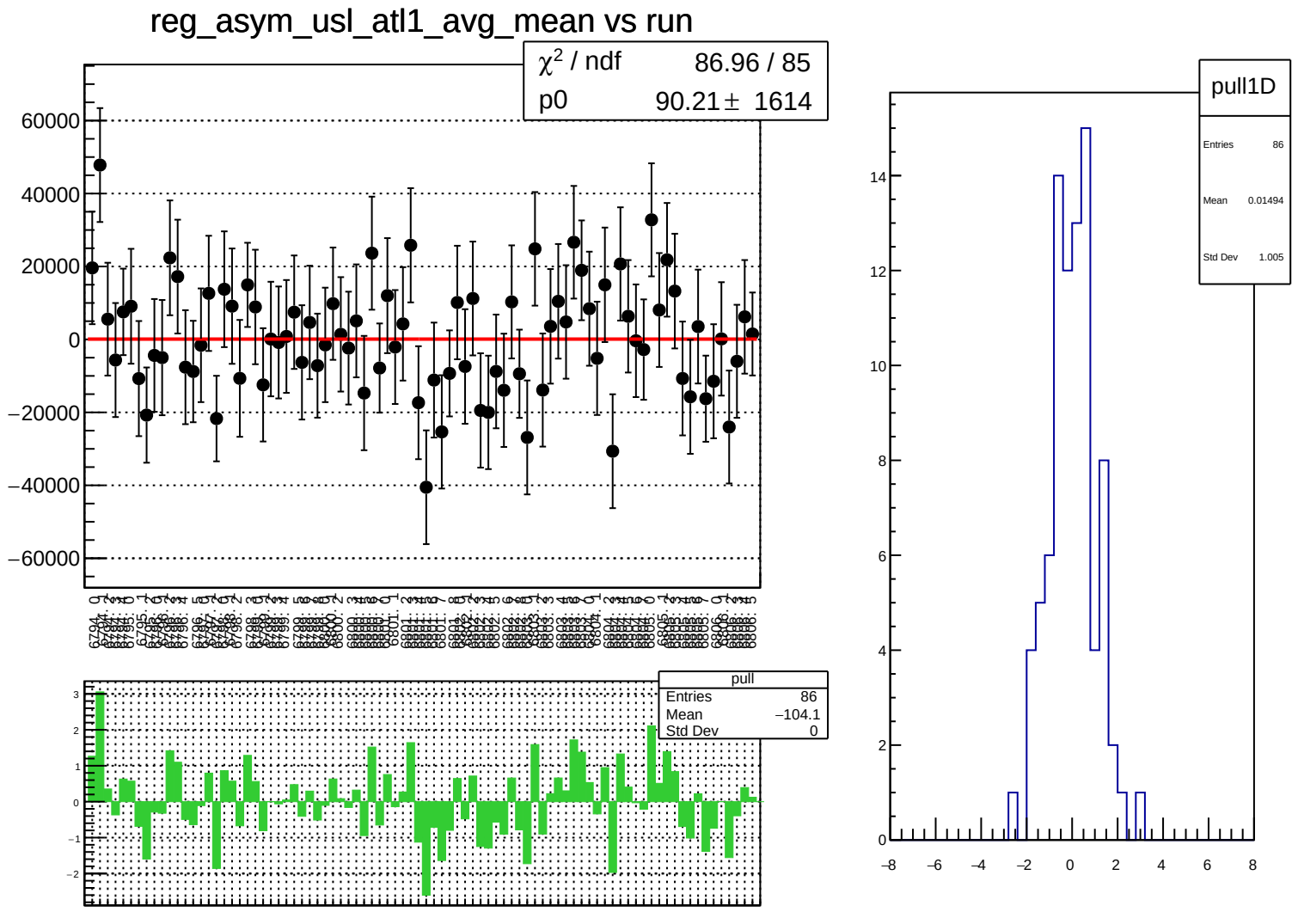

pull1D
Entries 86
Mean −0.00234
Std Dev 1.138

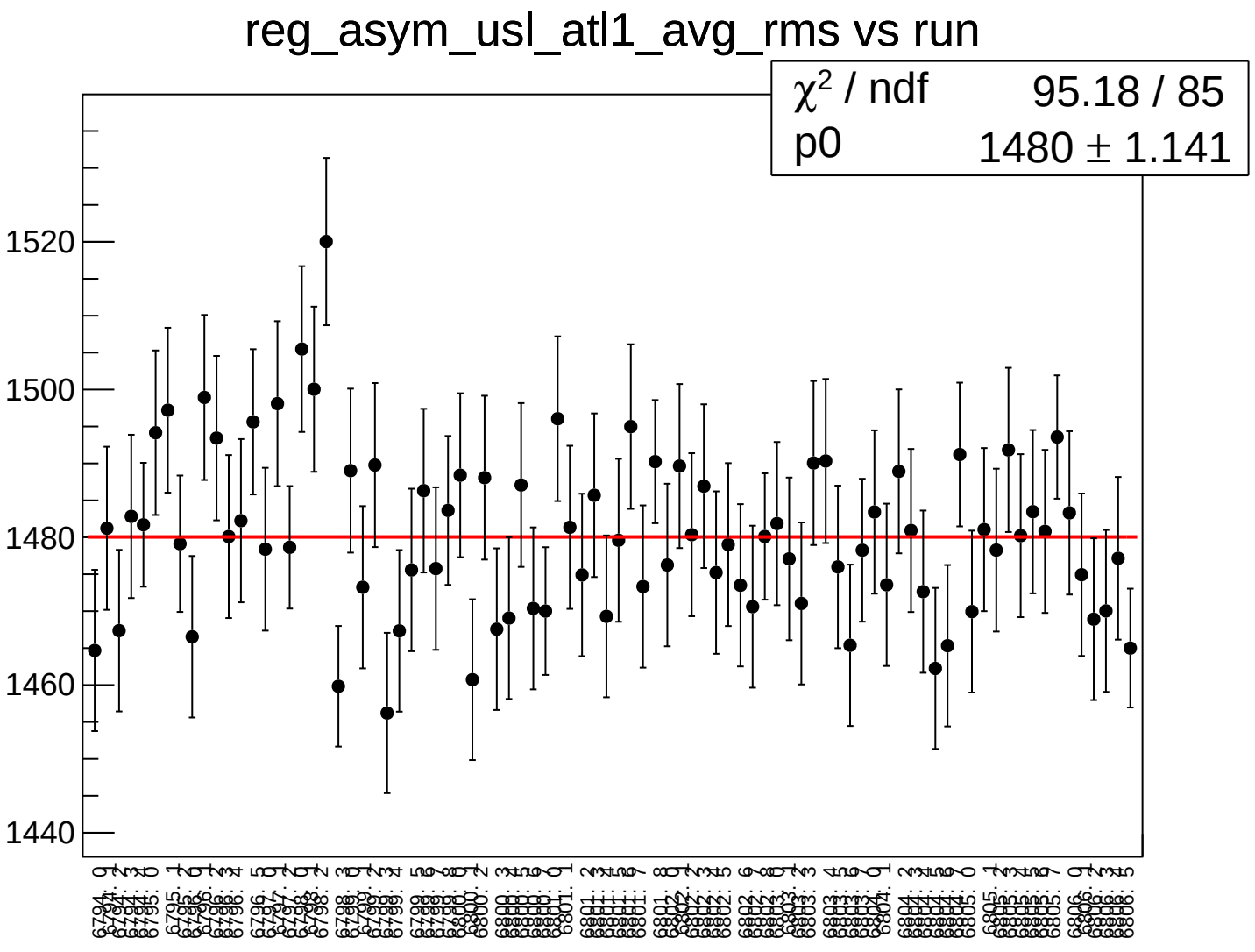

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.87e+05 / 85
p0 34.96 ± 0.02859
80
70
60
50
40
30
20

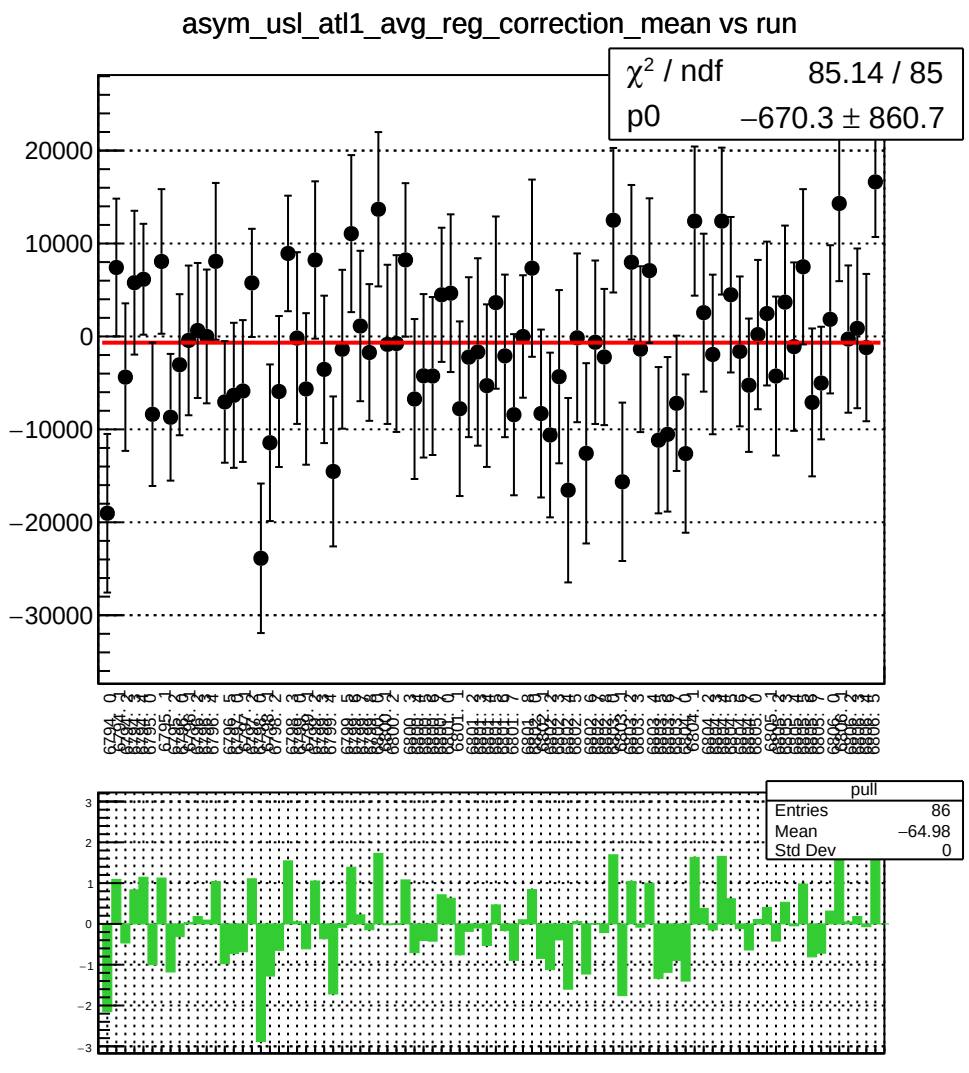

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.49 / 85
p0 −1.48e−14 ± 1.449e−14
pull
Entries 86
Mean 215.2
Std Dev 0

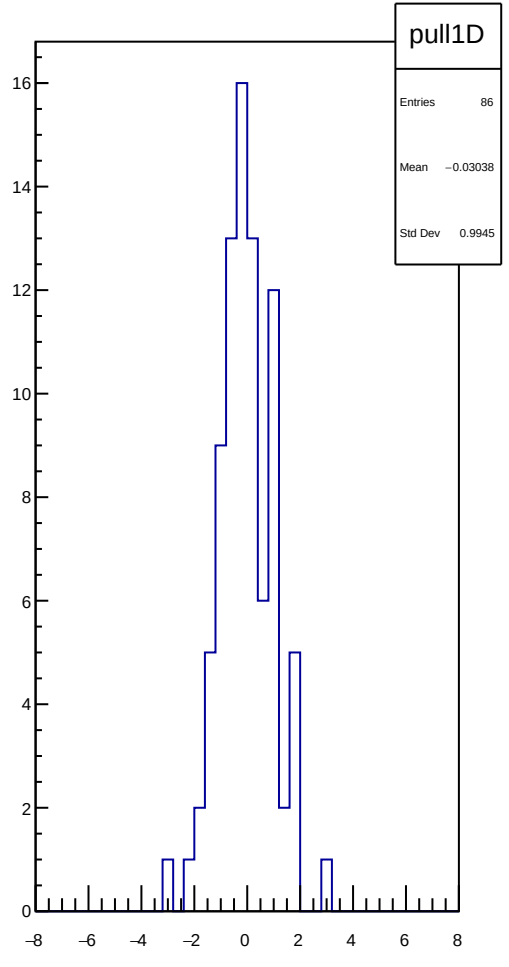

pull1D
Entries 86
Mean 0.003668
Std Dev 1.07

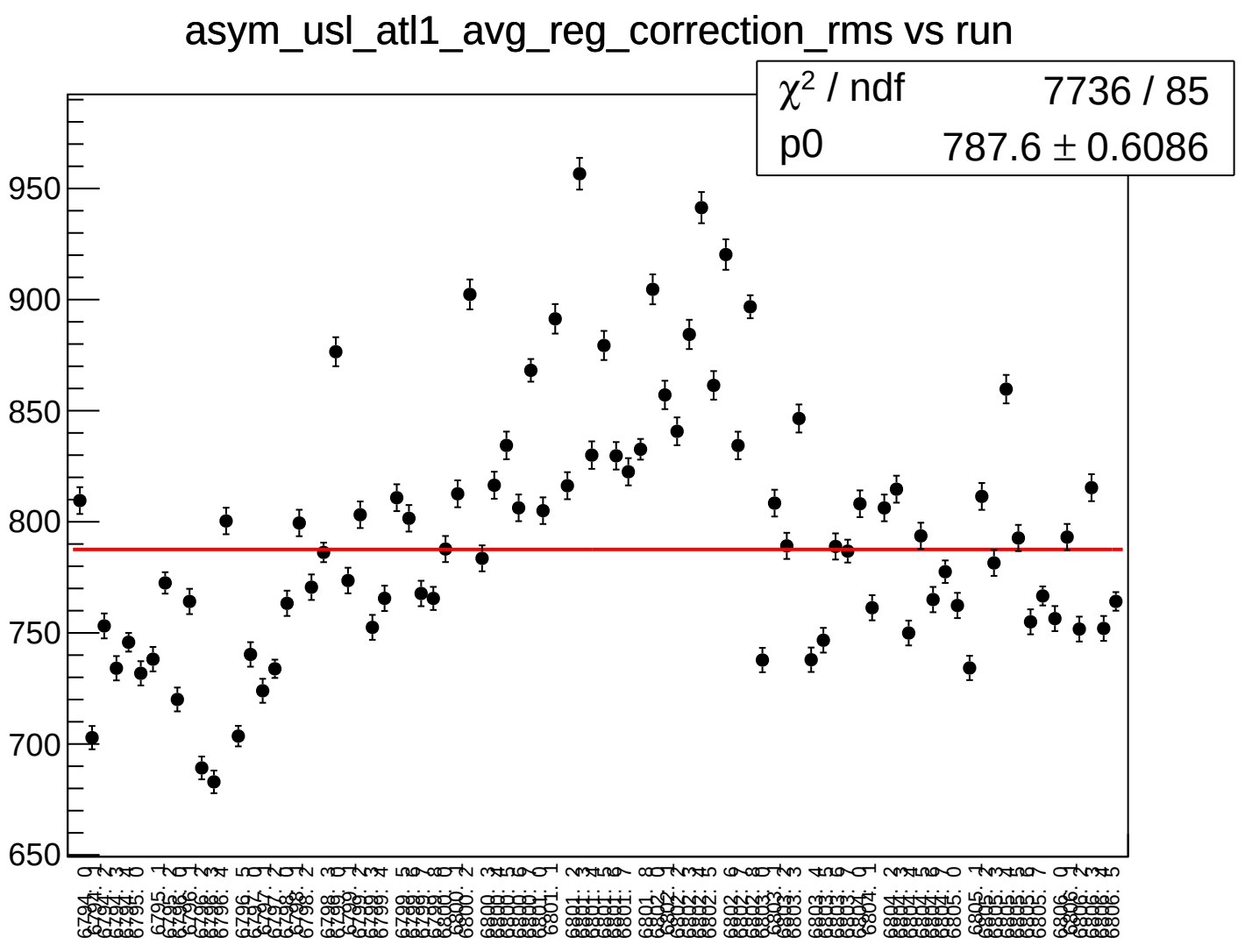

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.77e+05 / 85
p0 1.027e−11 ± 1.025e−14
70
60
50
40
30
20
10

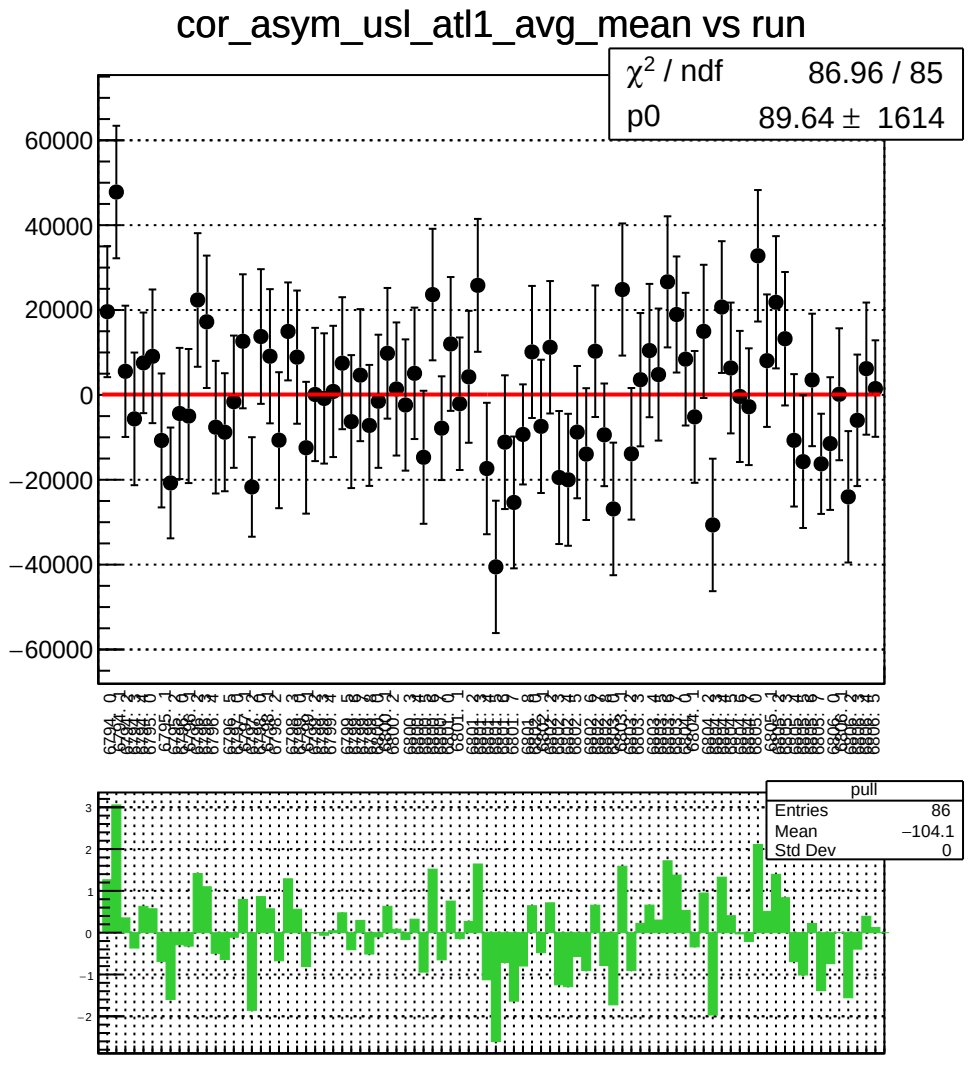

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.96 / 85
p0 90.21 ± 1614
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −104.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01494
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

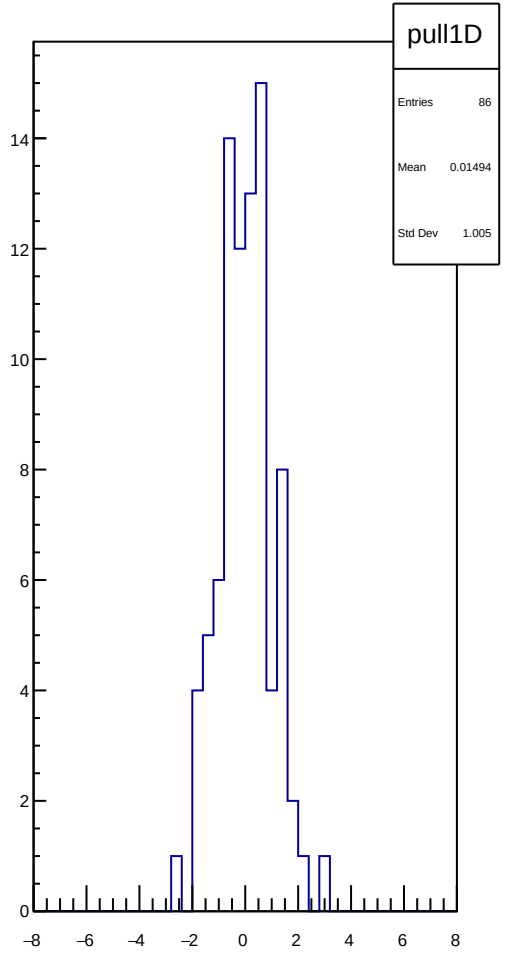

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.18 / 85
p0 1480 ± 1.141
1520
1500
1480
1460
1440

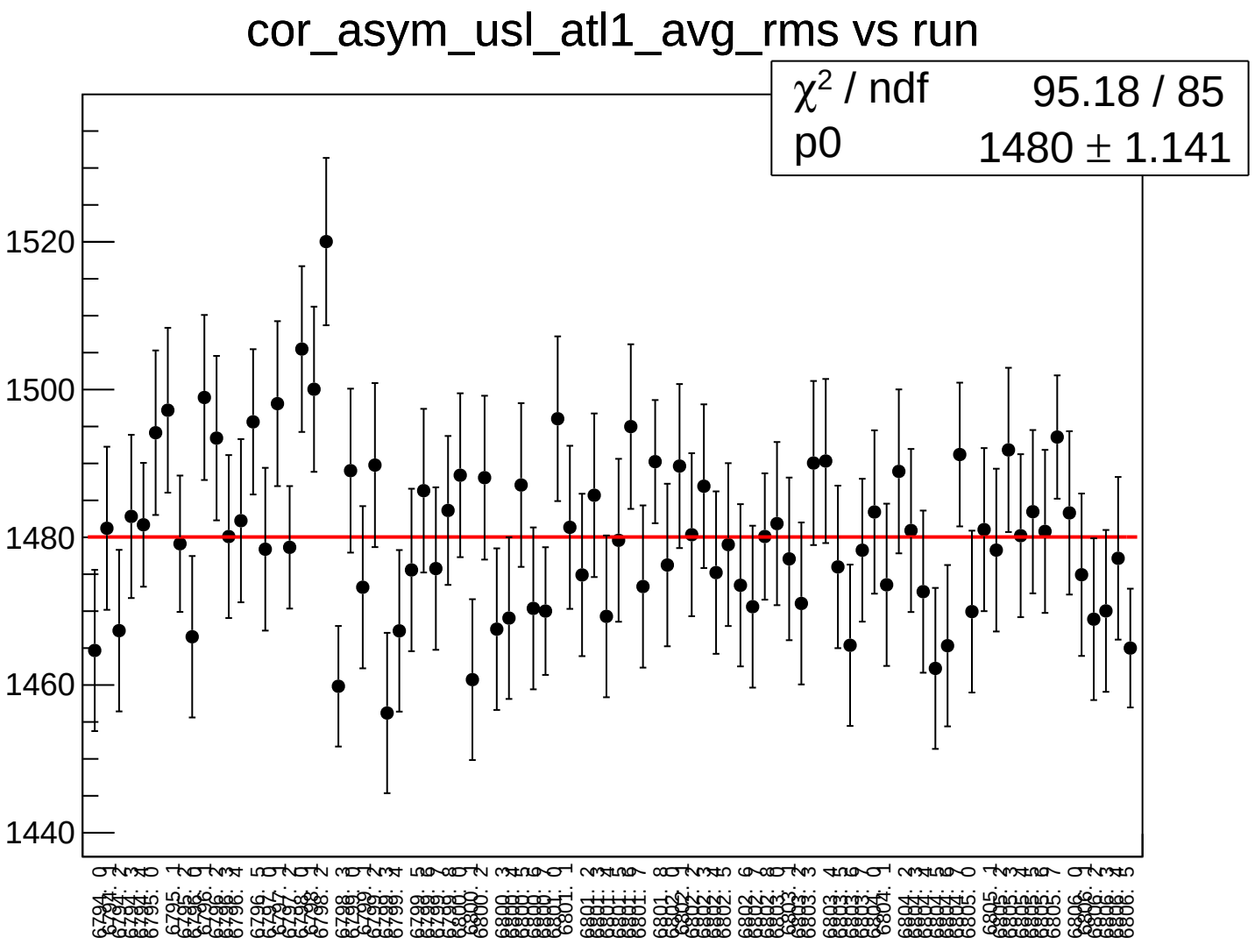

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 85.14 / 85
p0 −670.3 ± 860.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −64.98
Std Dev 0
3
2
1
0
−1
−2
−3

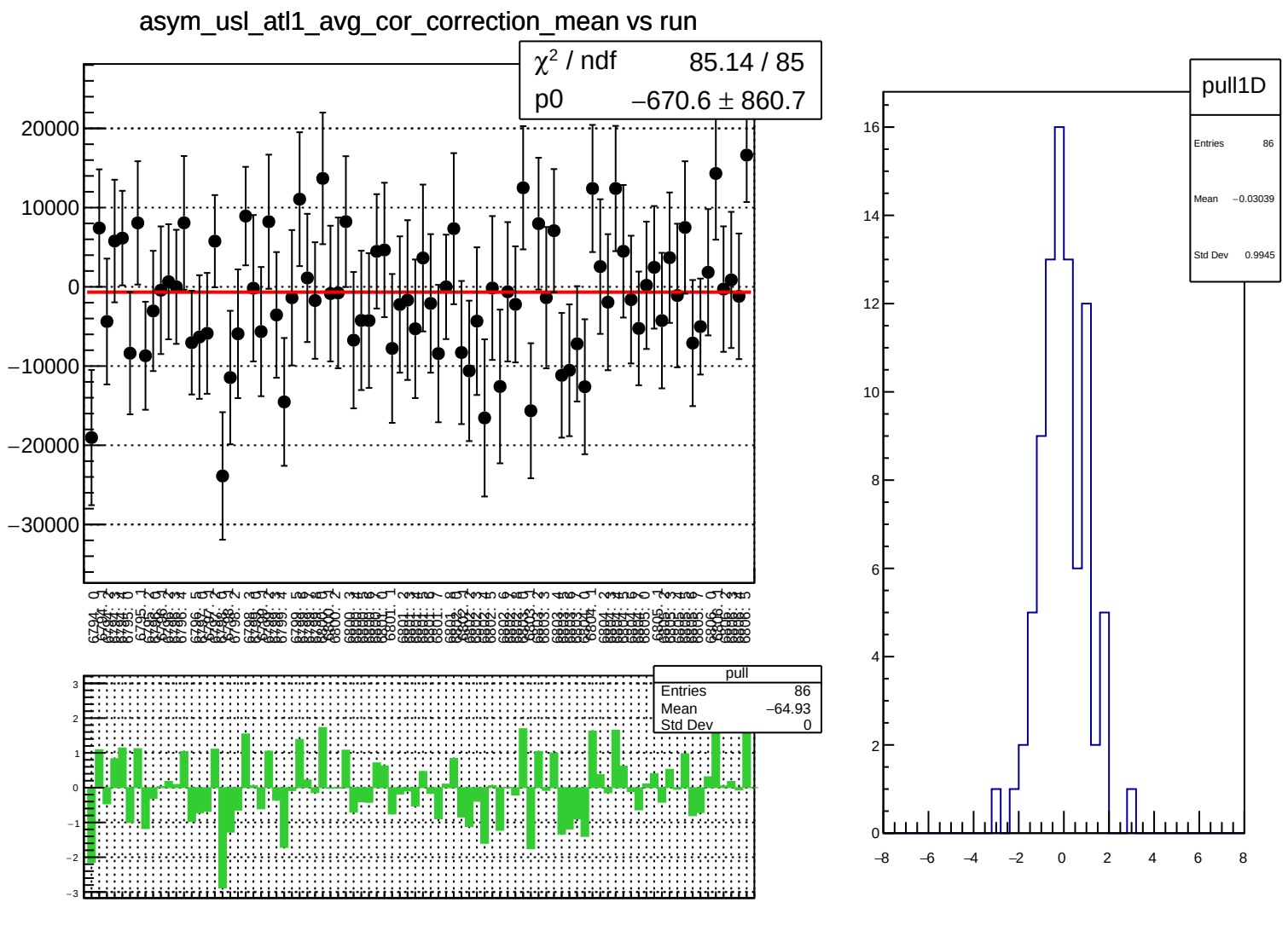

pull1D
Entries 86
Mean −0.03038
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

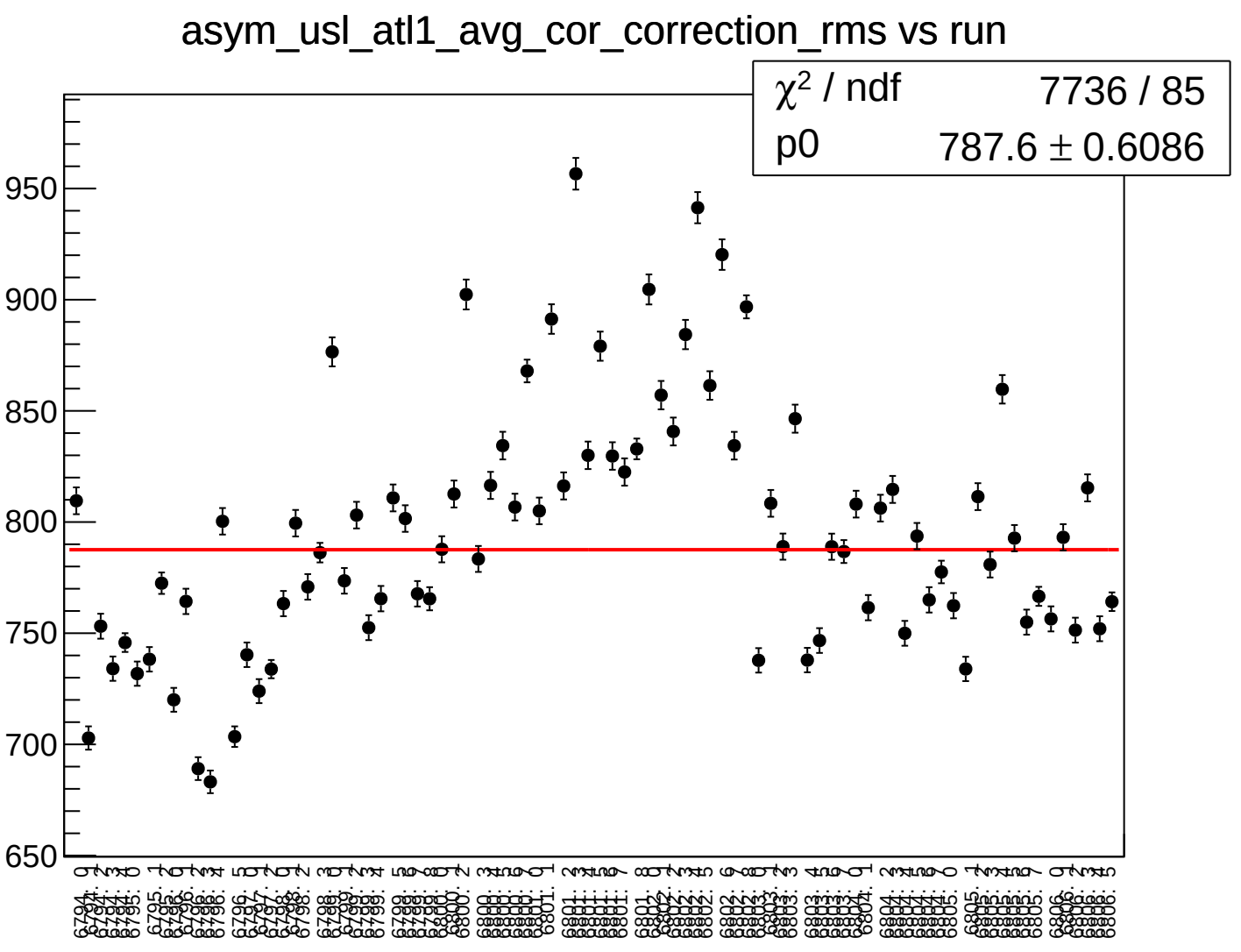

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 7736 / 85
p0 787.6 ± 0.6086
950
900
850
800
750
700
650

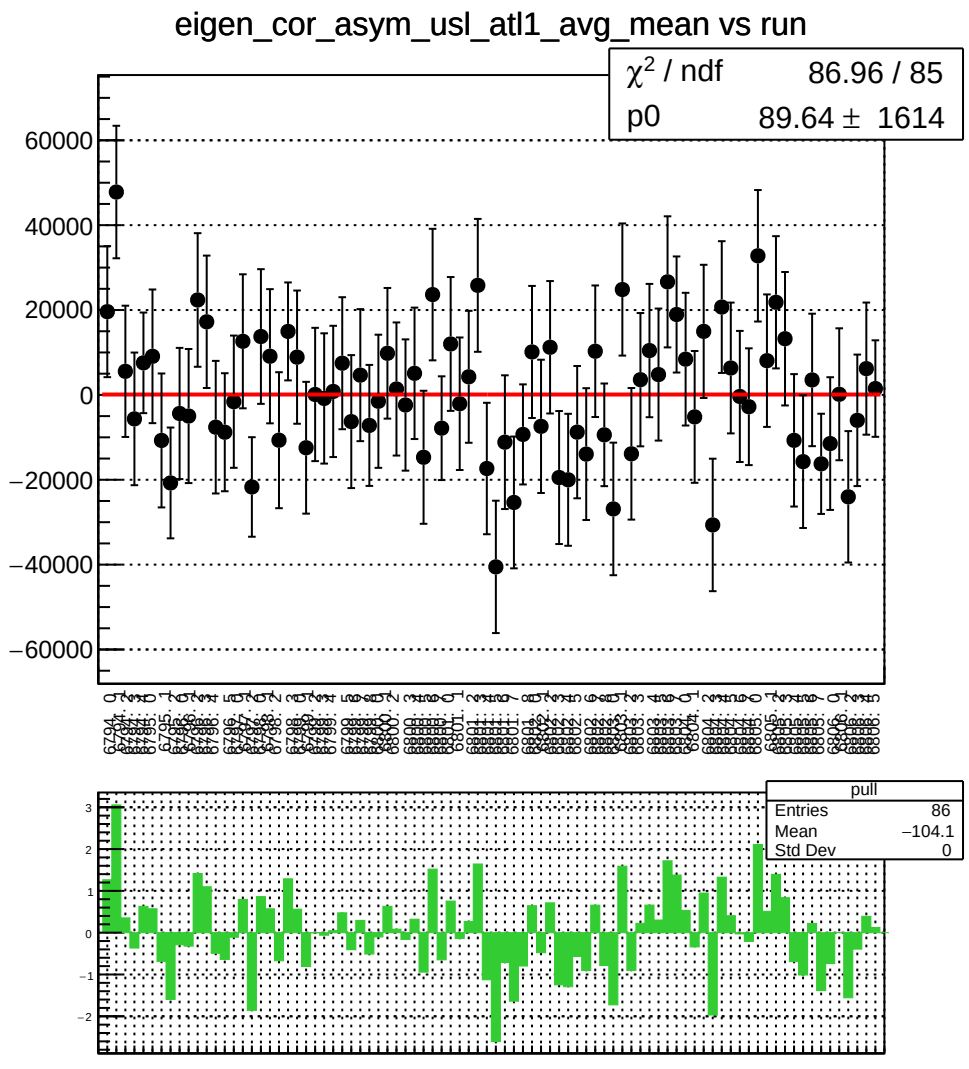

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.96 / 85
p0 89.64 ± 1614
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −104.1
Std Dev 0
3
2
1
0
−1
−2

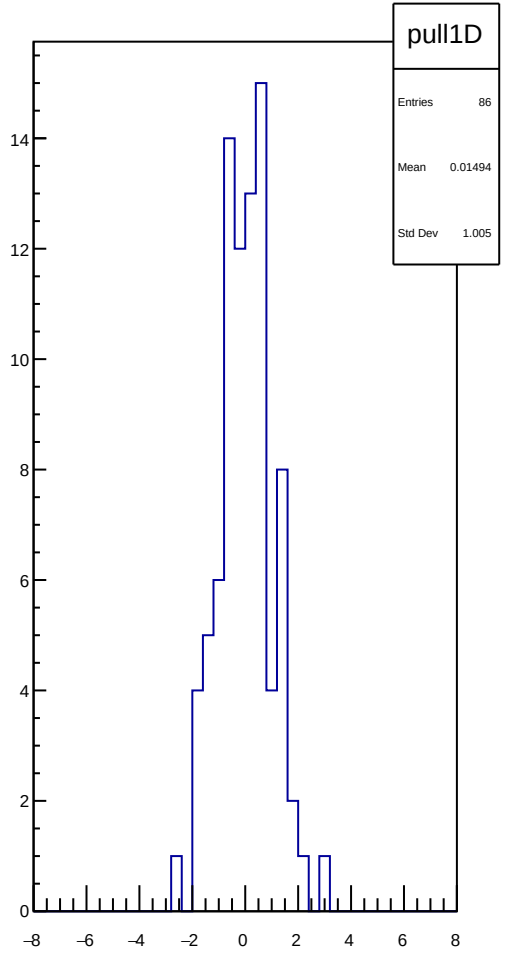

pull1D
Entries 86
Mean 0.01494
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

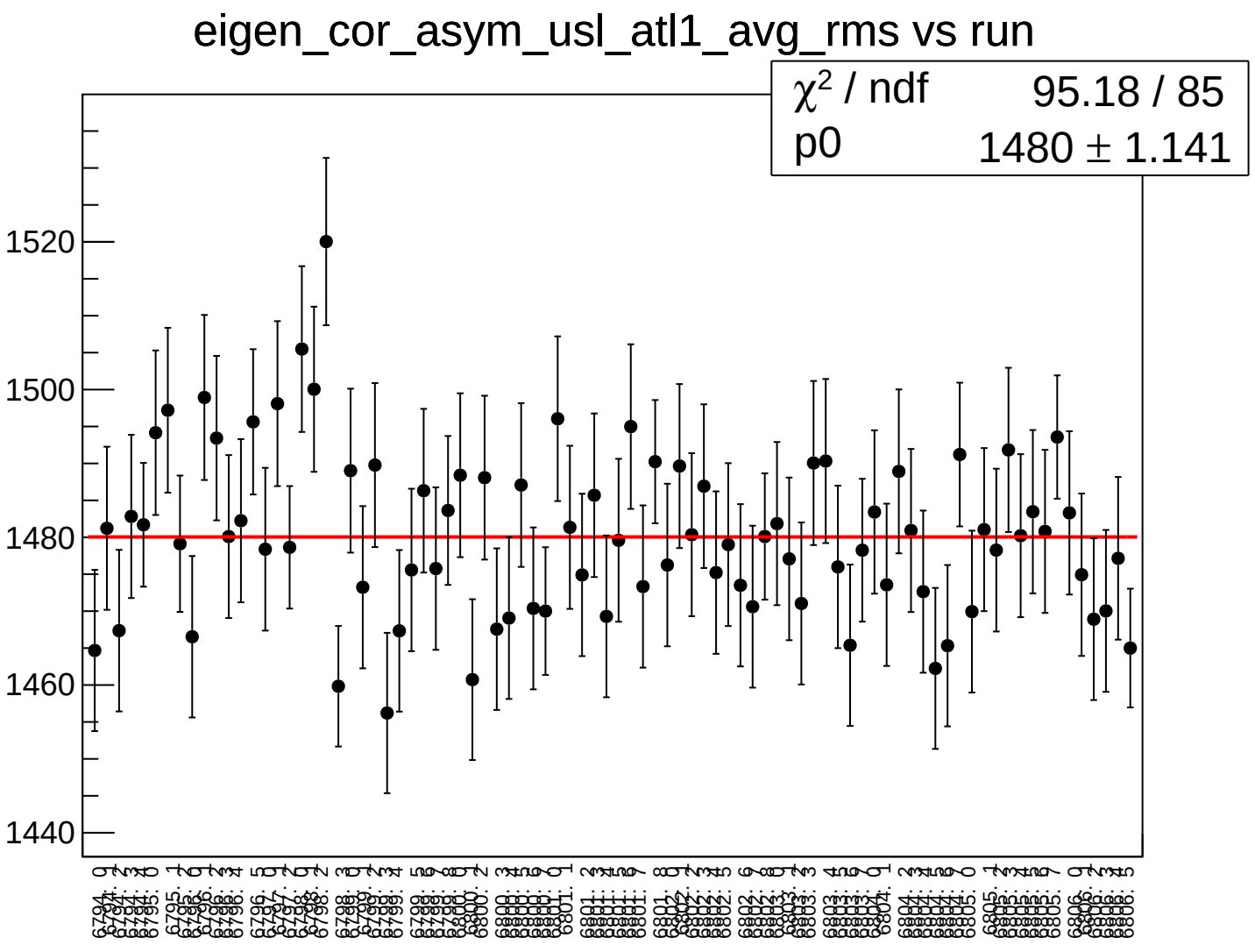

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.18 / 85
p0 1480 ± 1.141
1520
1500
1480
1460
1440

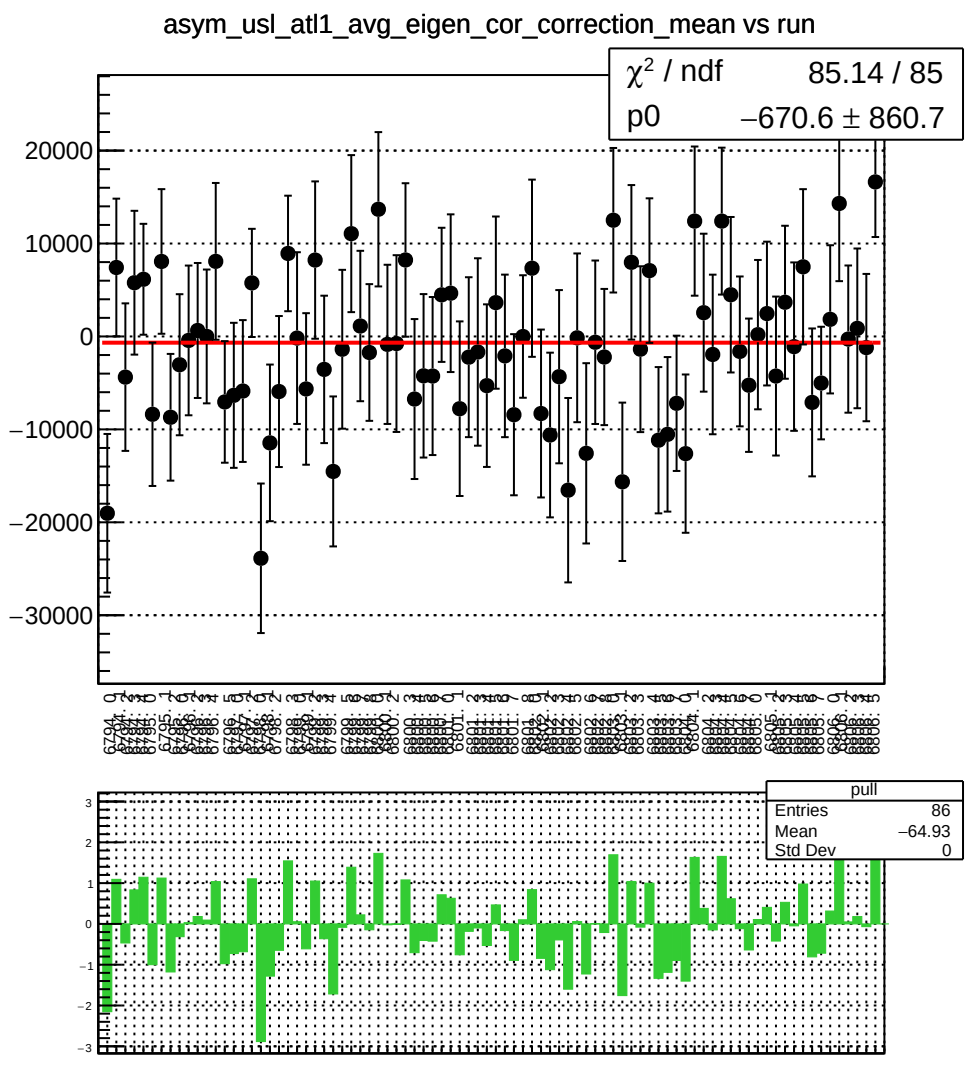

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 85.14 / 85
p0 −670.6 ± 860.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −64.93
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.03039
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

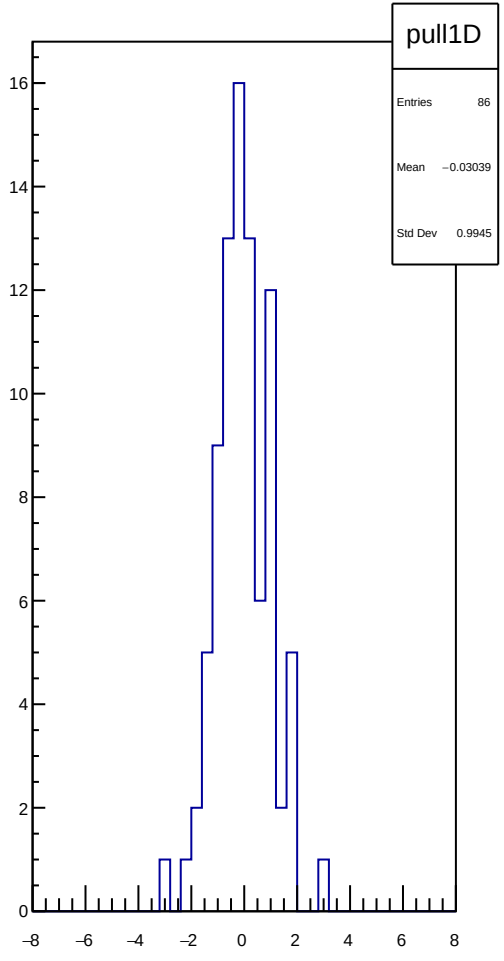

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 7736 / 85
p0 787.6 ± 0.6086
950
900
850
800
750
700
650

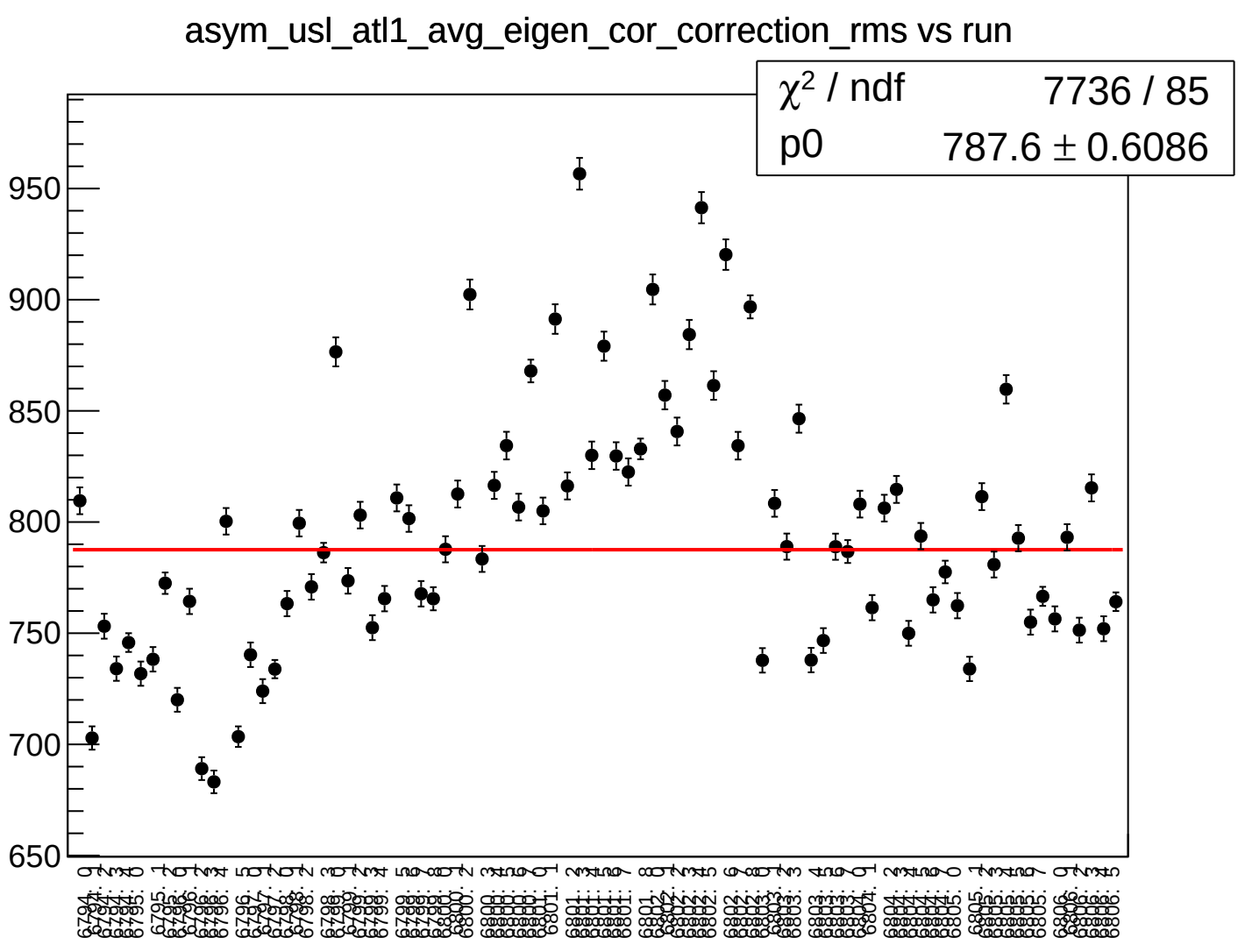

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 86.96 / 85
p0 89.64 ± 1614
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −104.1
Std Dev 0
3
2
1
0
−1
−2

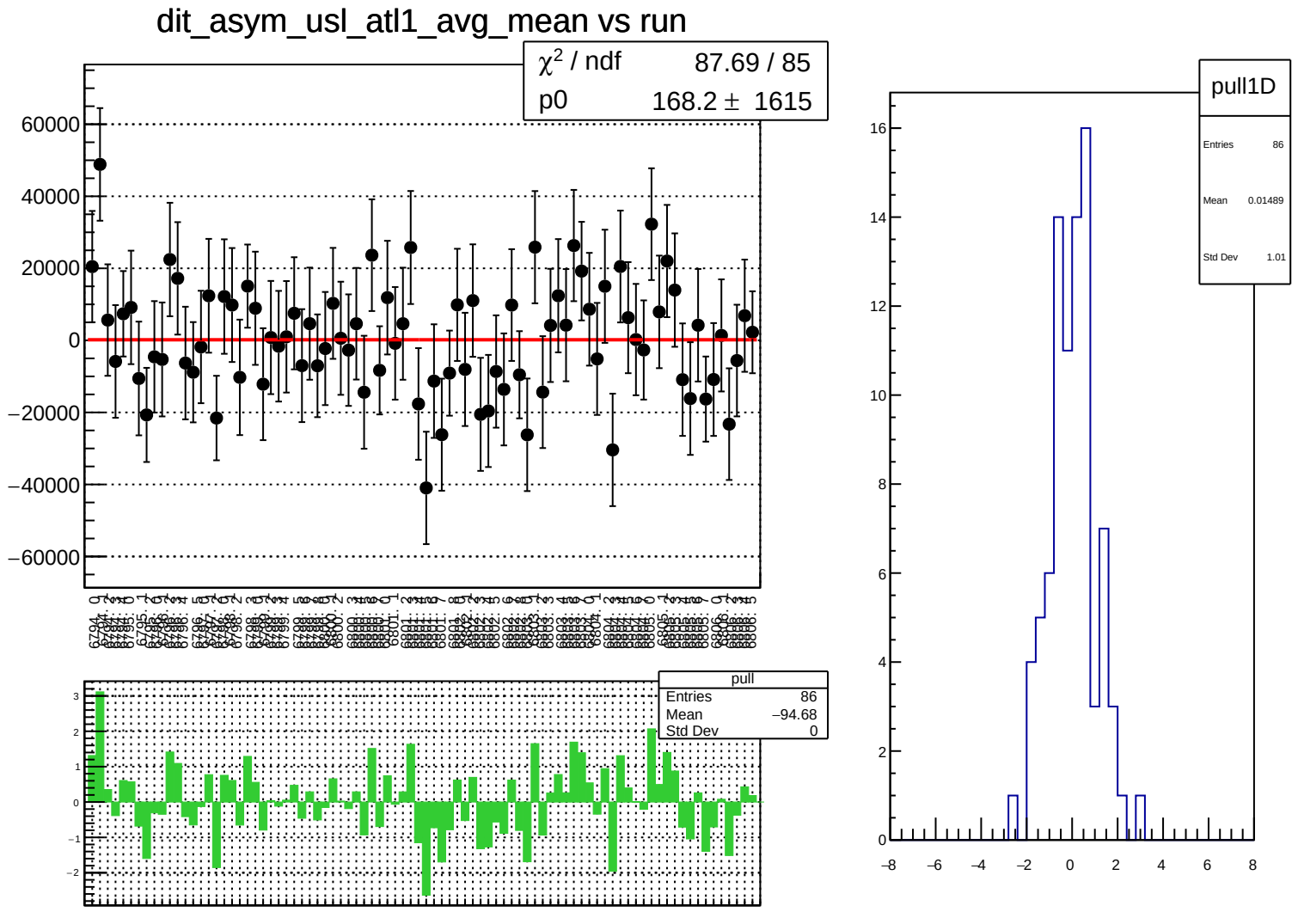

pull1D
Entries 86
Mean 0.01494
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

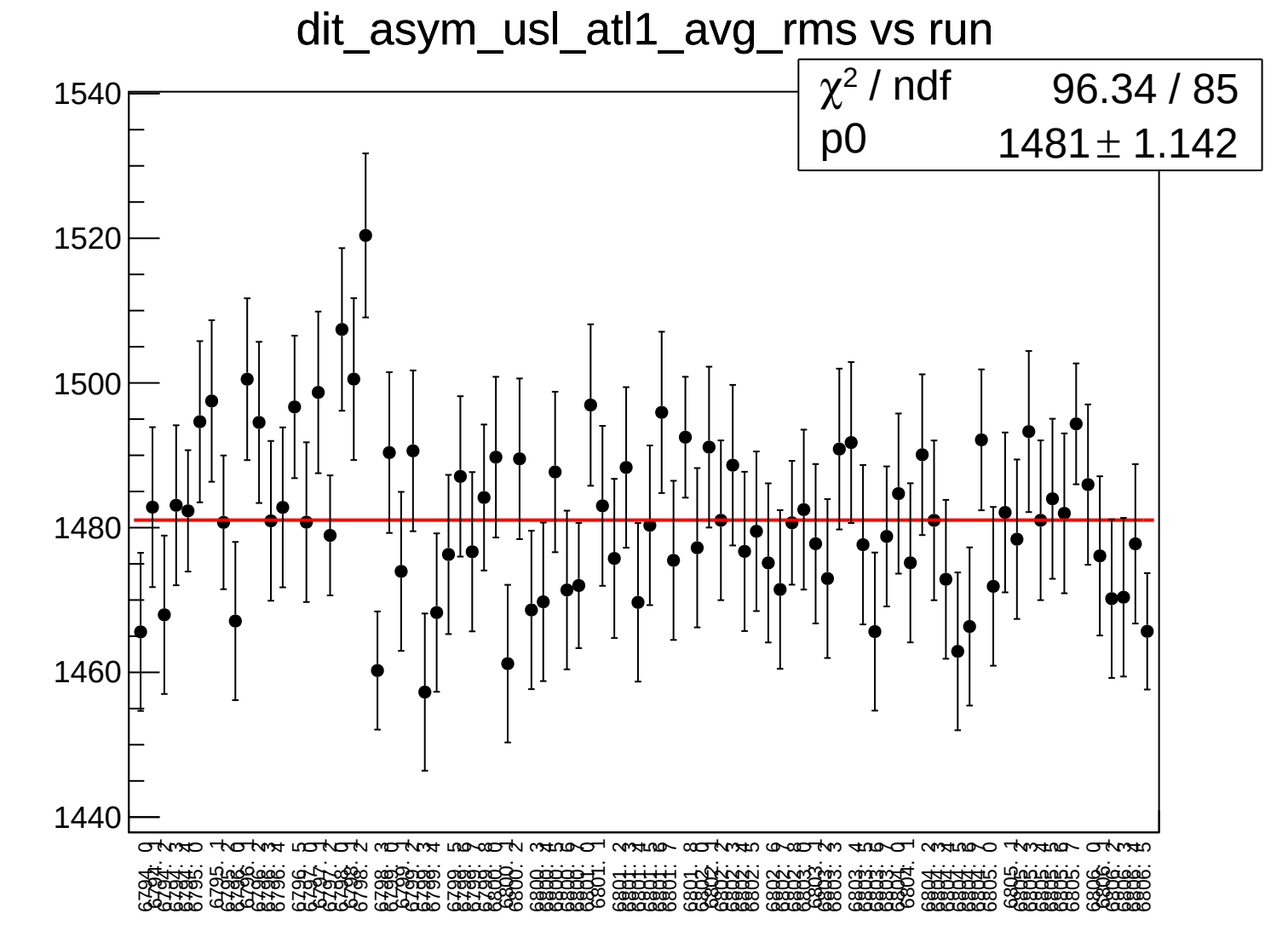

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 95.18 / 85
p0 1480 ± 1.141
1520
1500
1480
1460
1440

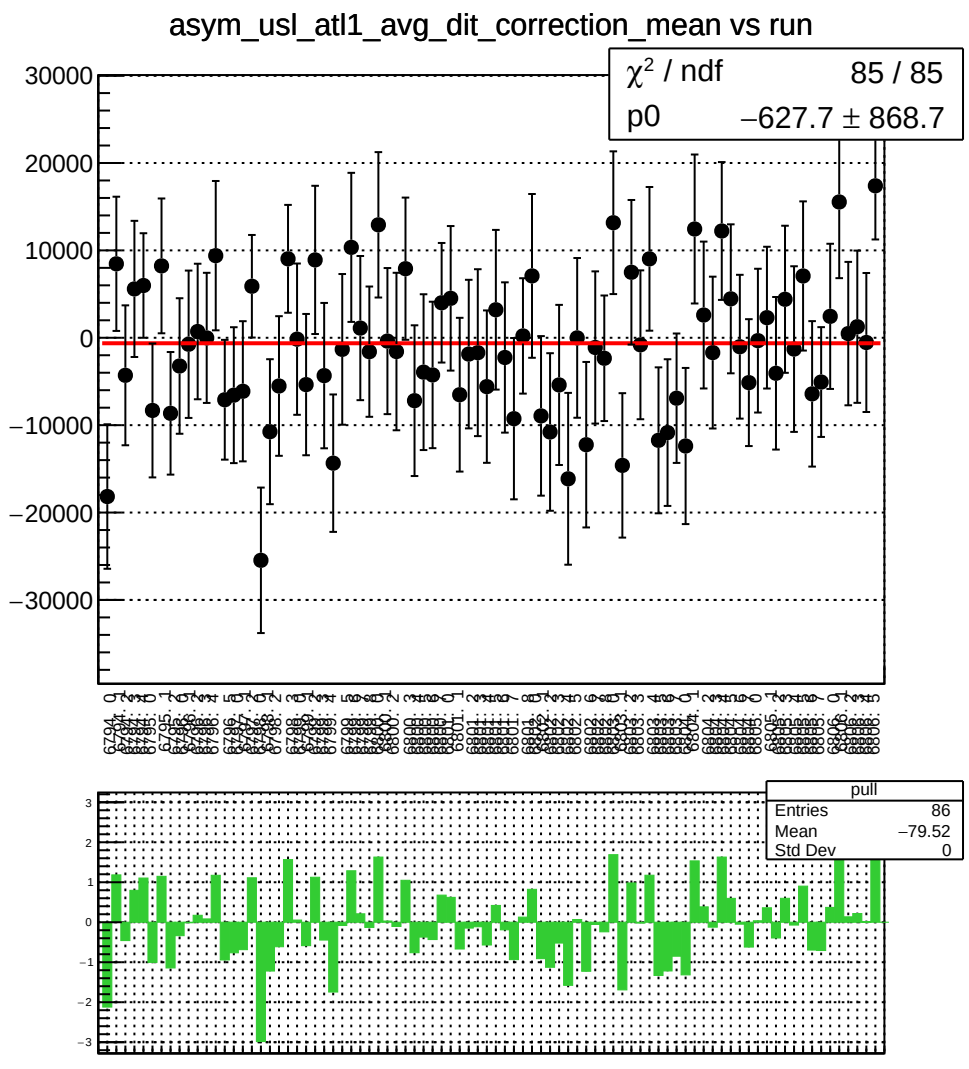

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.14 / 85
p0 −670.6 ± 860.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −64.93
Std Dev 0
3
2
1
0
−1
−2
−3

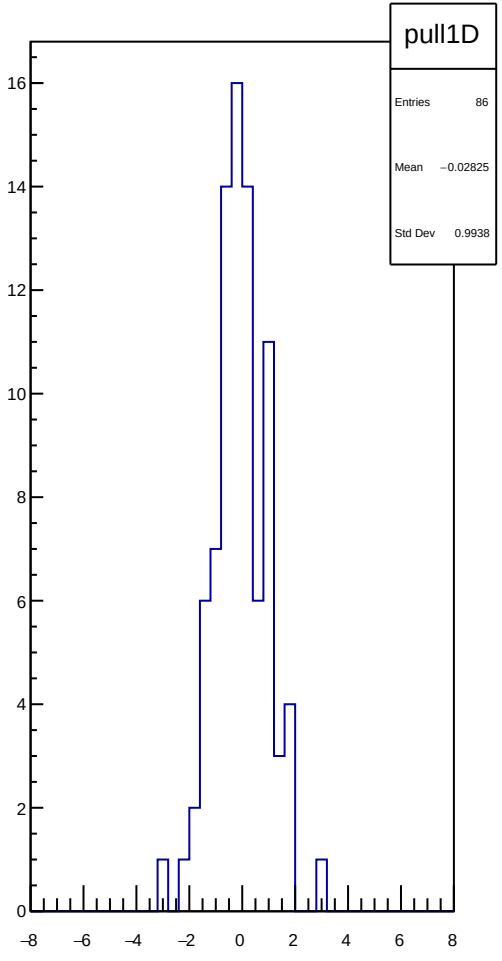

pull1D
Entries 86
Mean −0.03039
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

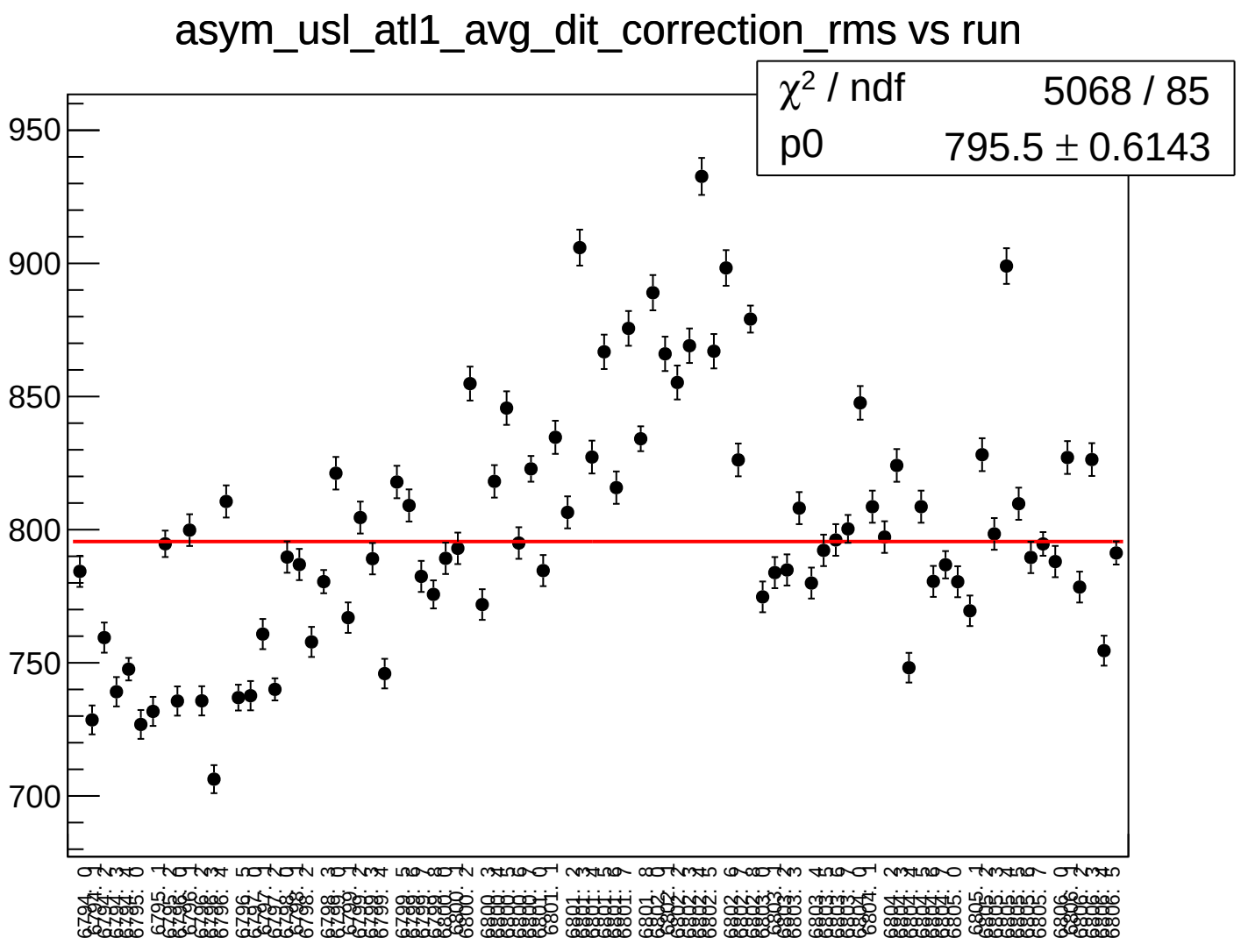

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7736 / 85
p0 787.6 ± 0.6086
950
900
850
800
750
700
650

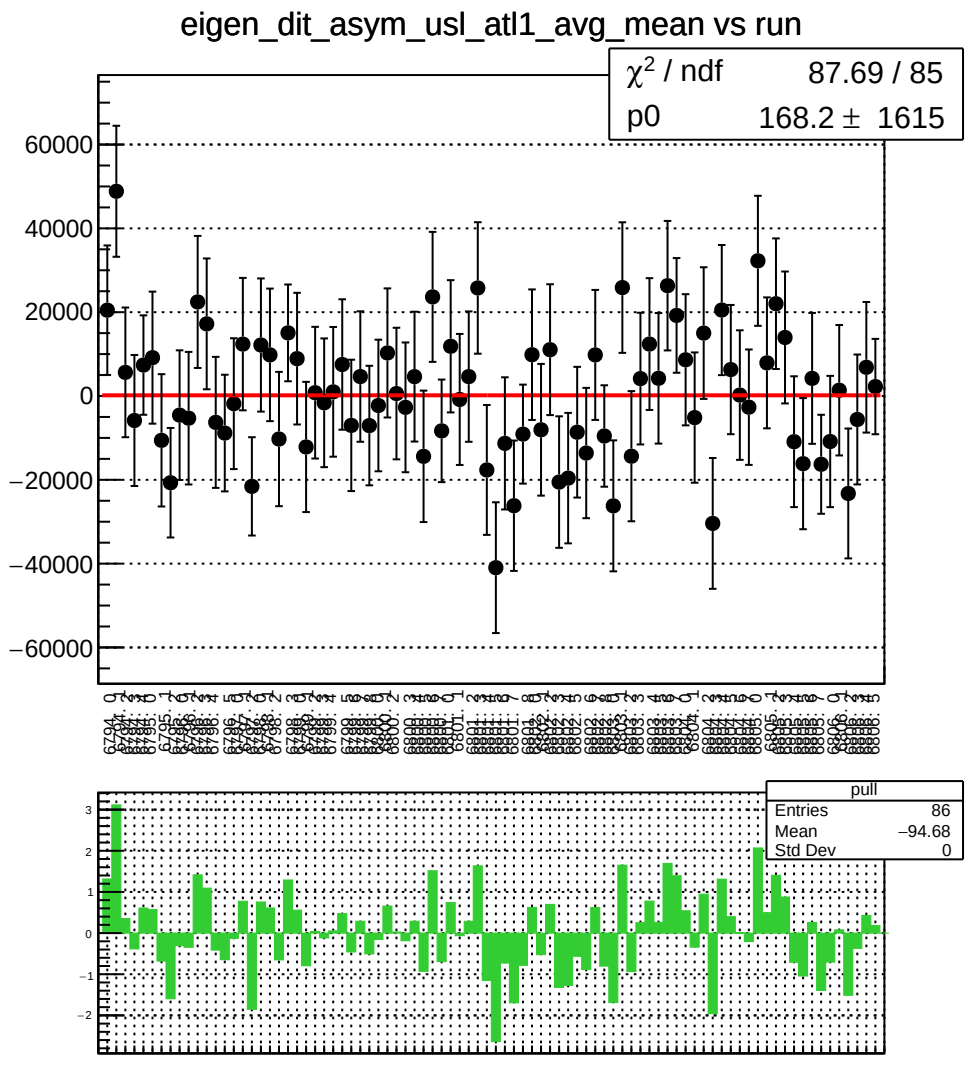

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.69 / 85
p0 168.2 ± 1615
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −94.68
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01489
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

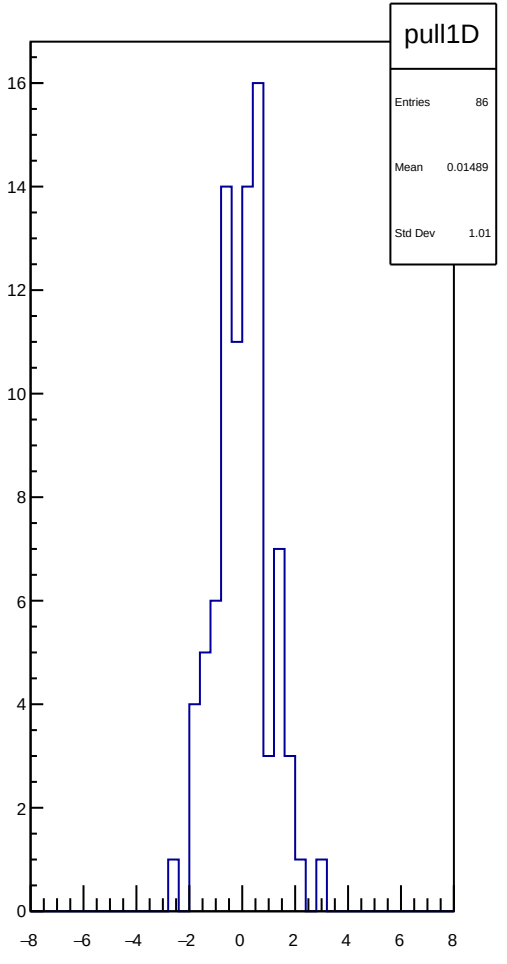

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 96.34 / 85
p0 1481 ± 1.142
1540
1520
1500
1480
1460
1440

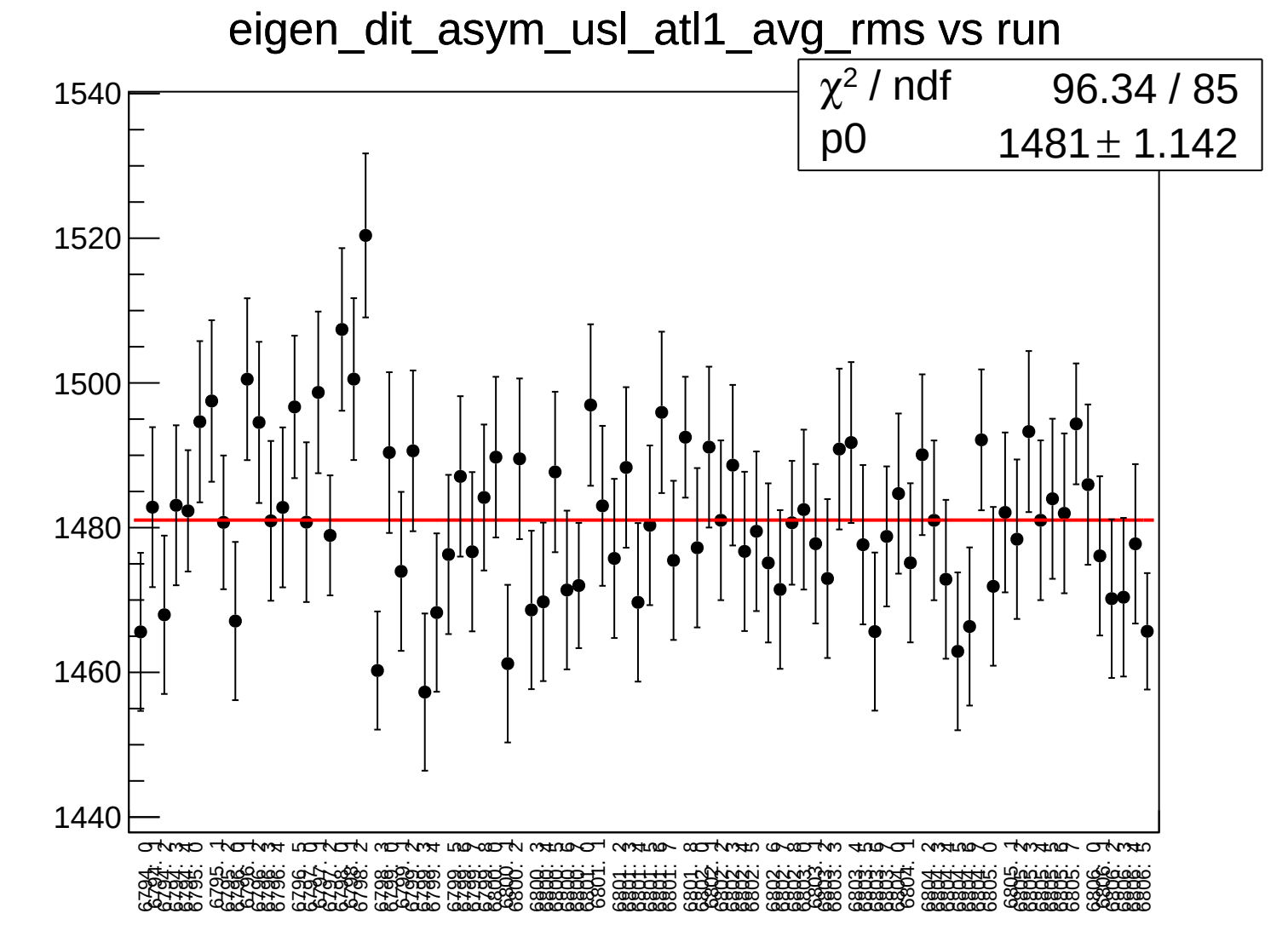

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 85 / 85
p0 −627.7 ± 868.7
pull
Entries 86
Mean −79.52
Std Dev 0

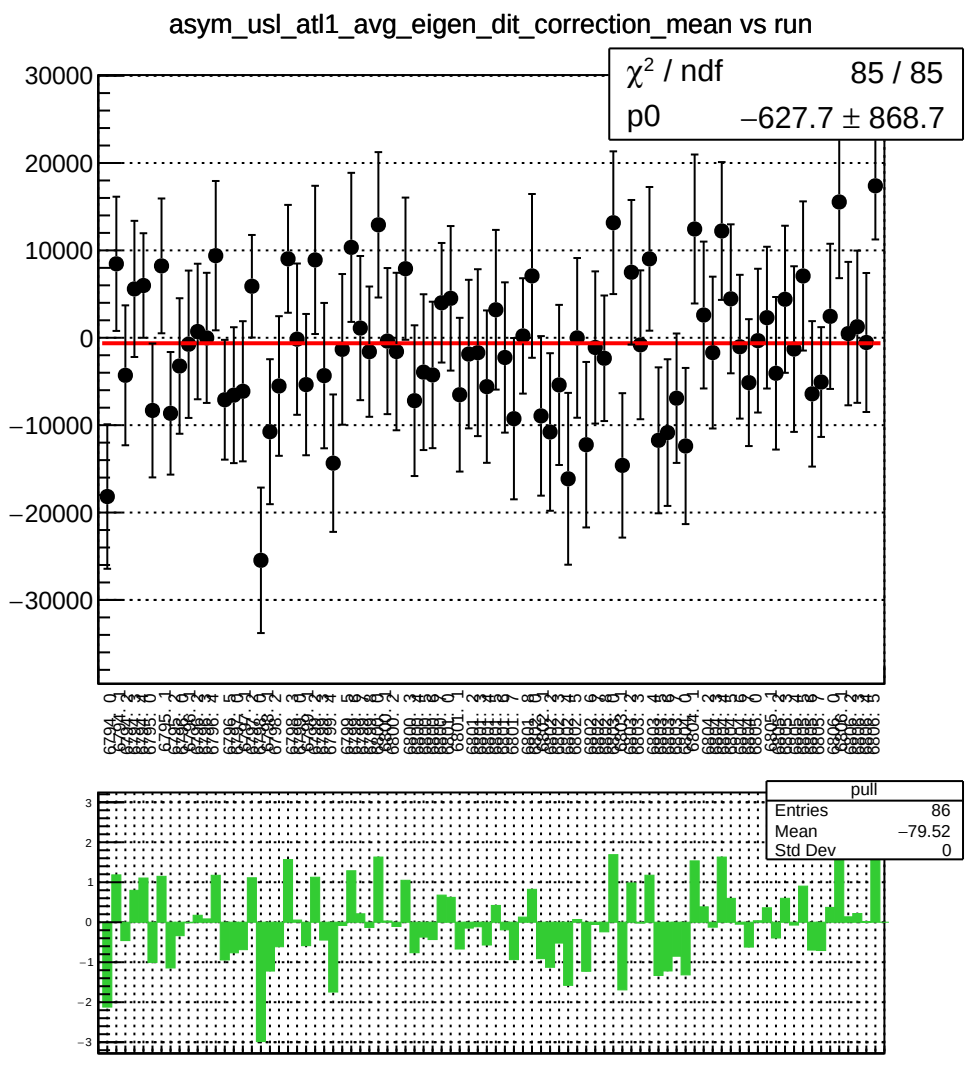

pull1D
Entries 86
Mean −0.02825
Std Dev 0.9938

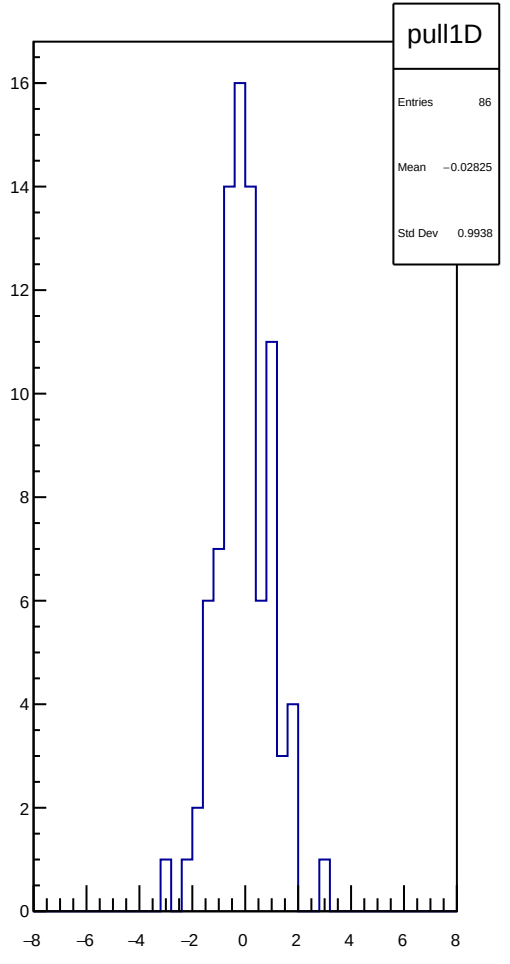

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 5068 / 85
p0 795.5 ± 0.6143
950
900
850
800
750
700

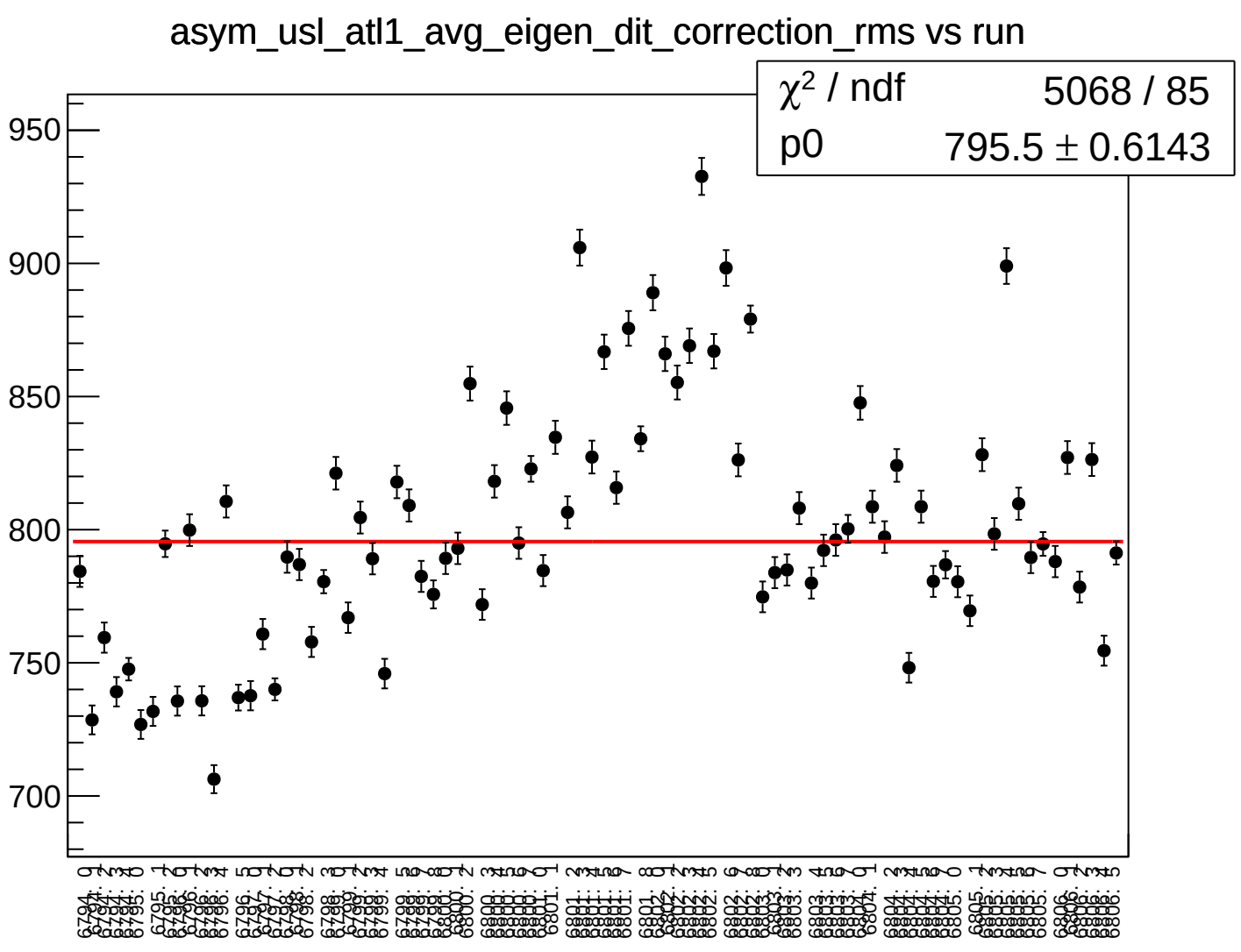

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 87.69 / 85
p0 168.2 ± 1615
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −94.68
Std Dev 0
3
2
1
0
−1
−2

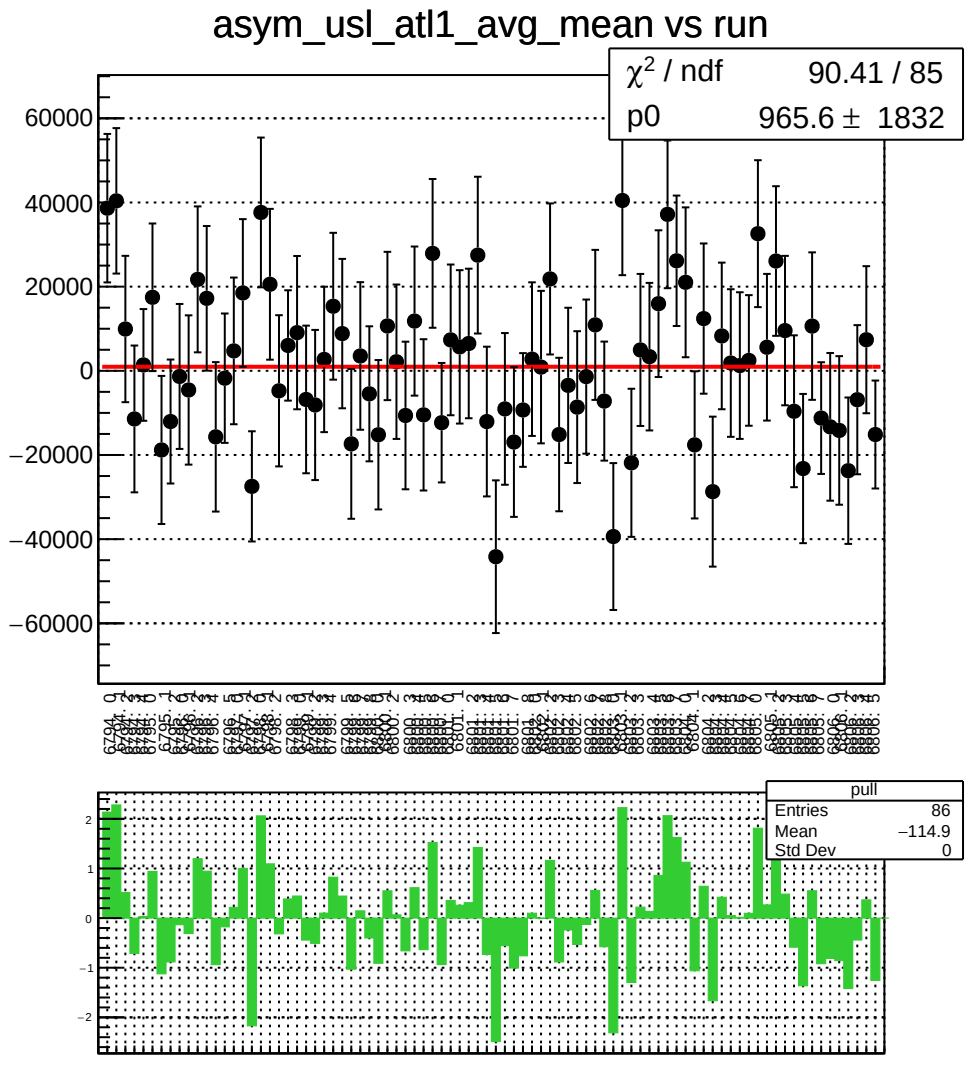

pull1D
Entries 86
Mean 0.01489
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

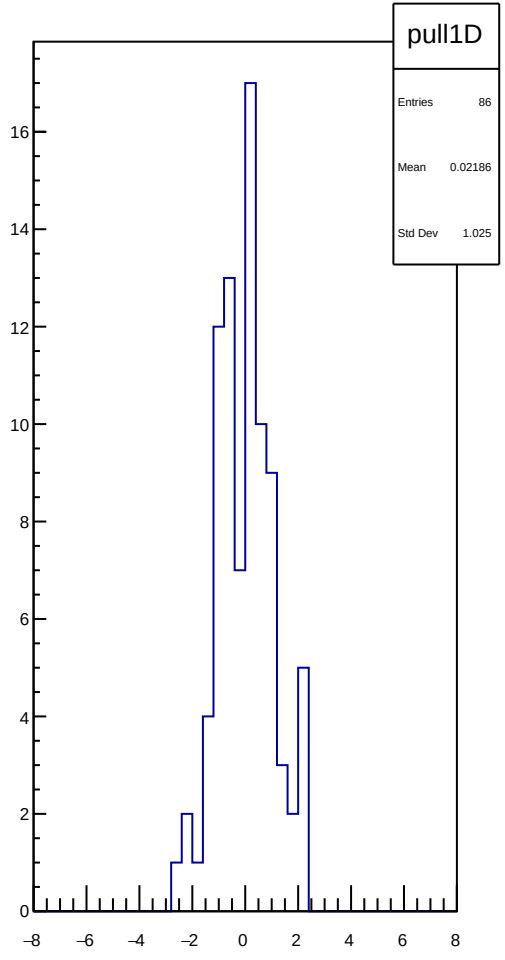

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 96.34 / 85
p0 1481 ± 1.142
1540
1520
1500
1480
1460
1440

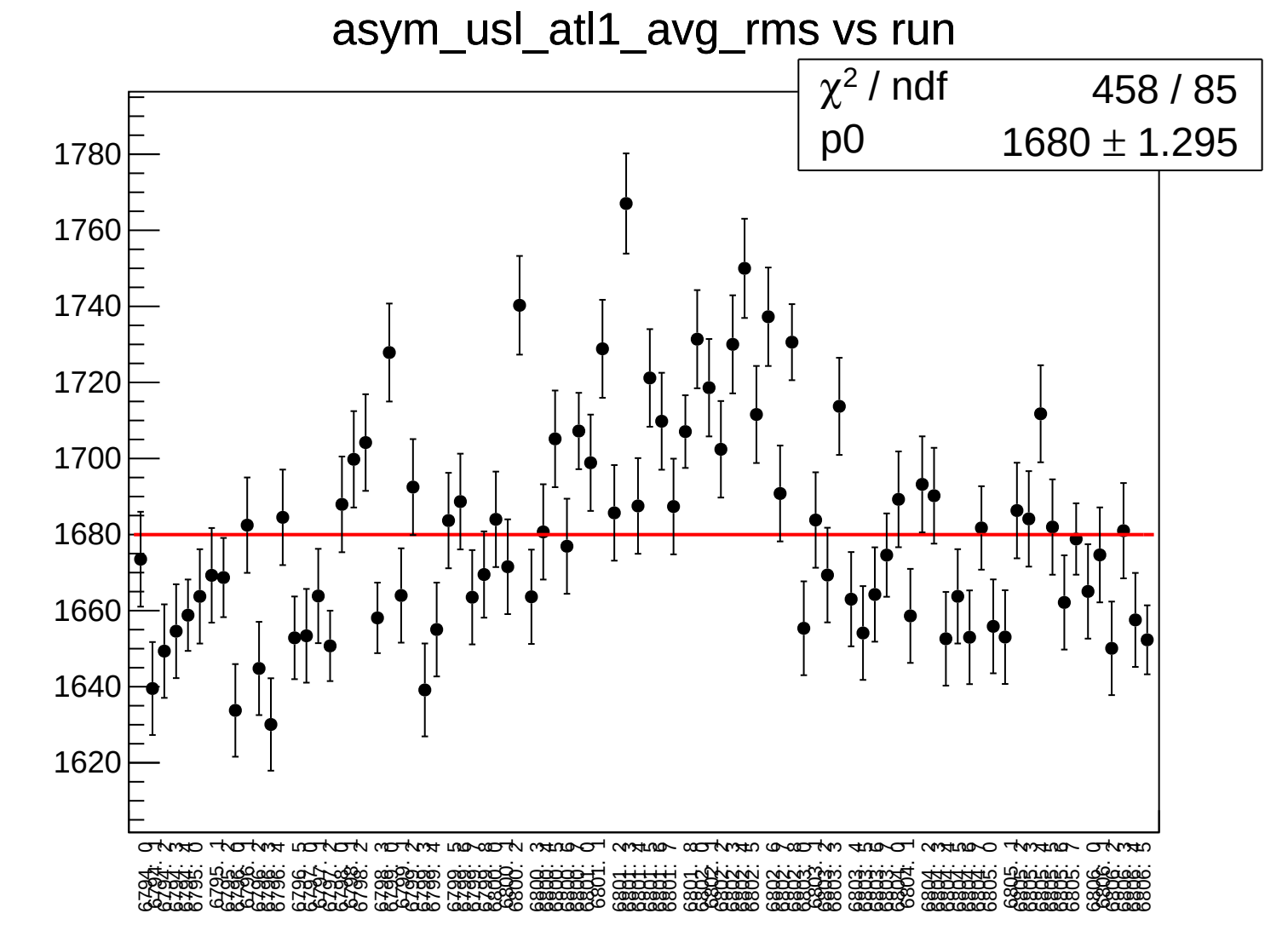

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 85 / 85
p0 −627.7 ± 868.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −79.52
Std Dev 0
3
2
1
0
−1
−2
−3

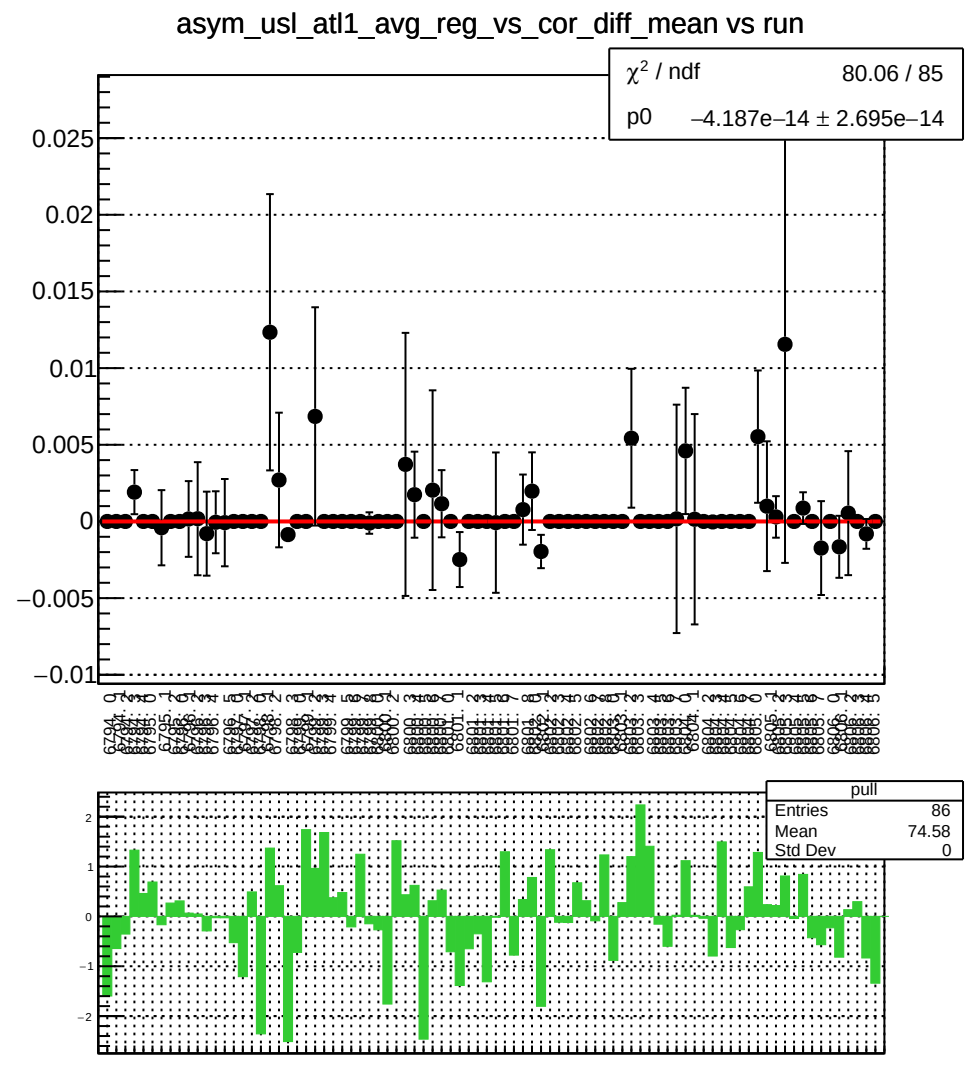

pull1D
Entries 86
Mean −0.02825
Std Dev 0.9938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

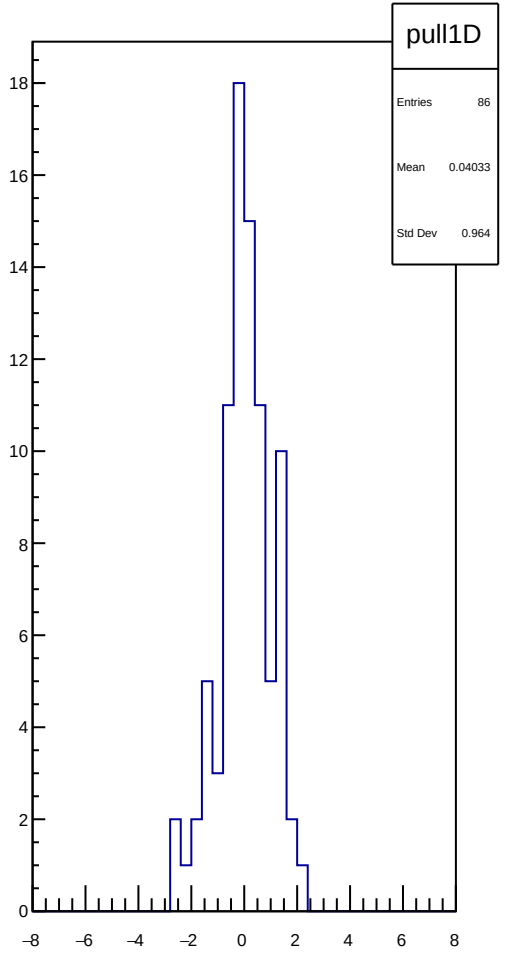

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5068 / 85
p0 795.5 ± 0.6143
950
900
850
800
750
700

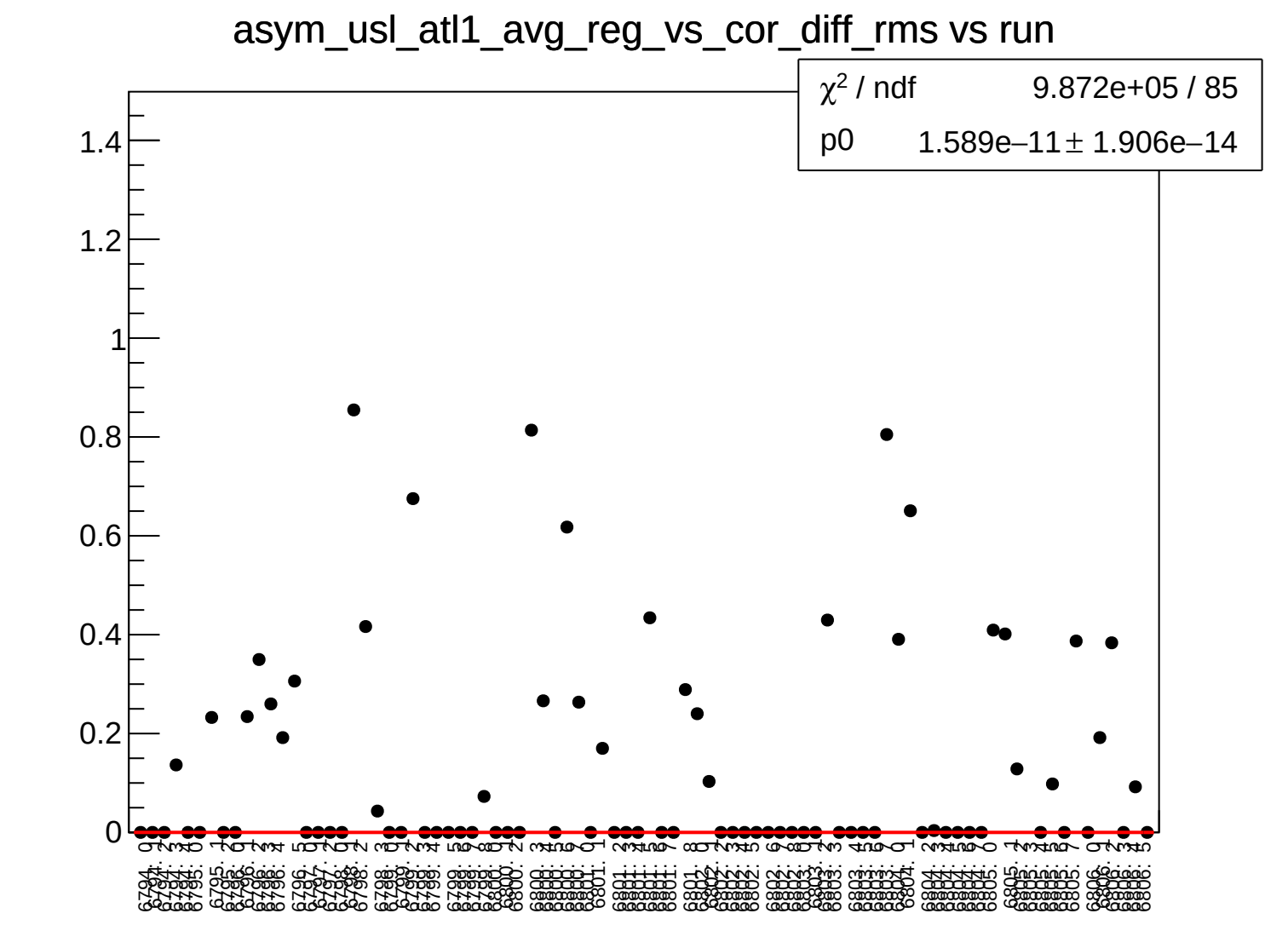

asym_usl_atl1_avg_mean vs run
χ² / ndf 90.41 / 85
p0 965.6 ± 1832
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −114.9
Std Dev 0
2
1
0
−1
−2

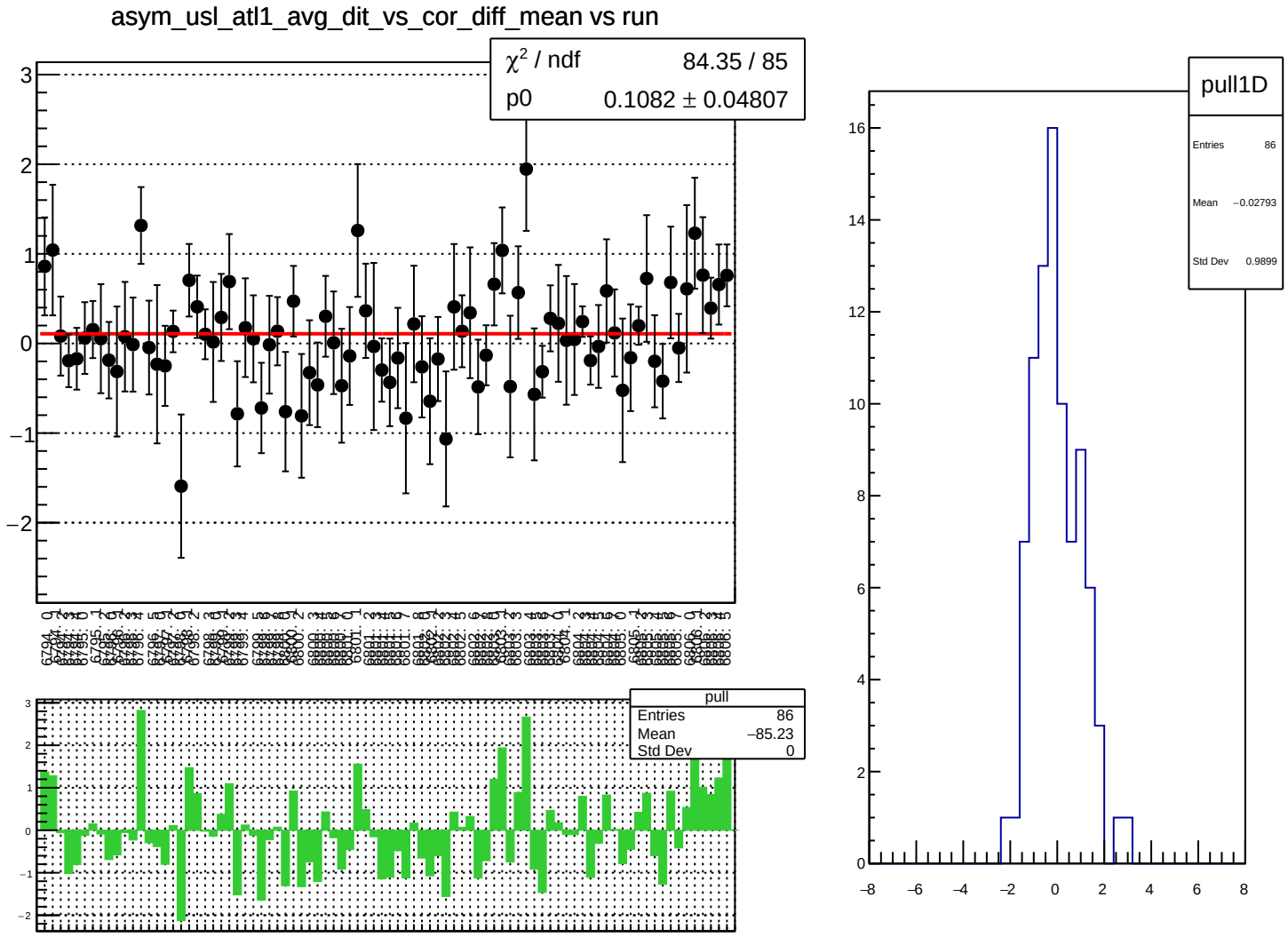

pull1D
Entries 86
Mean 0.02186
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

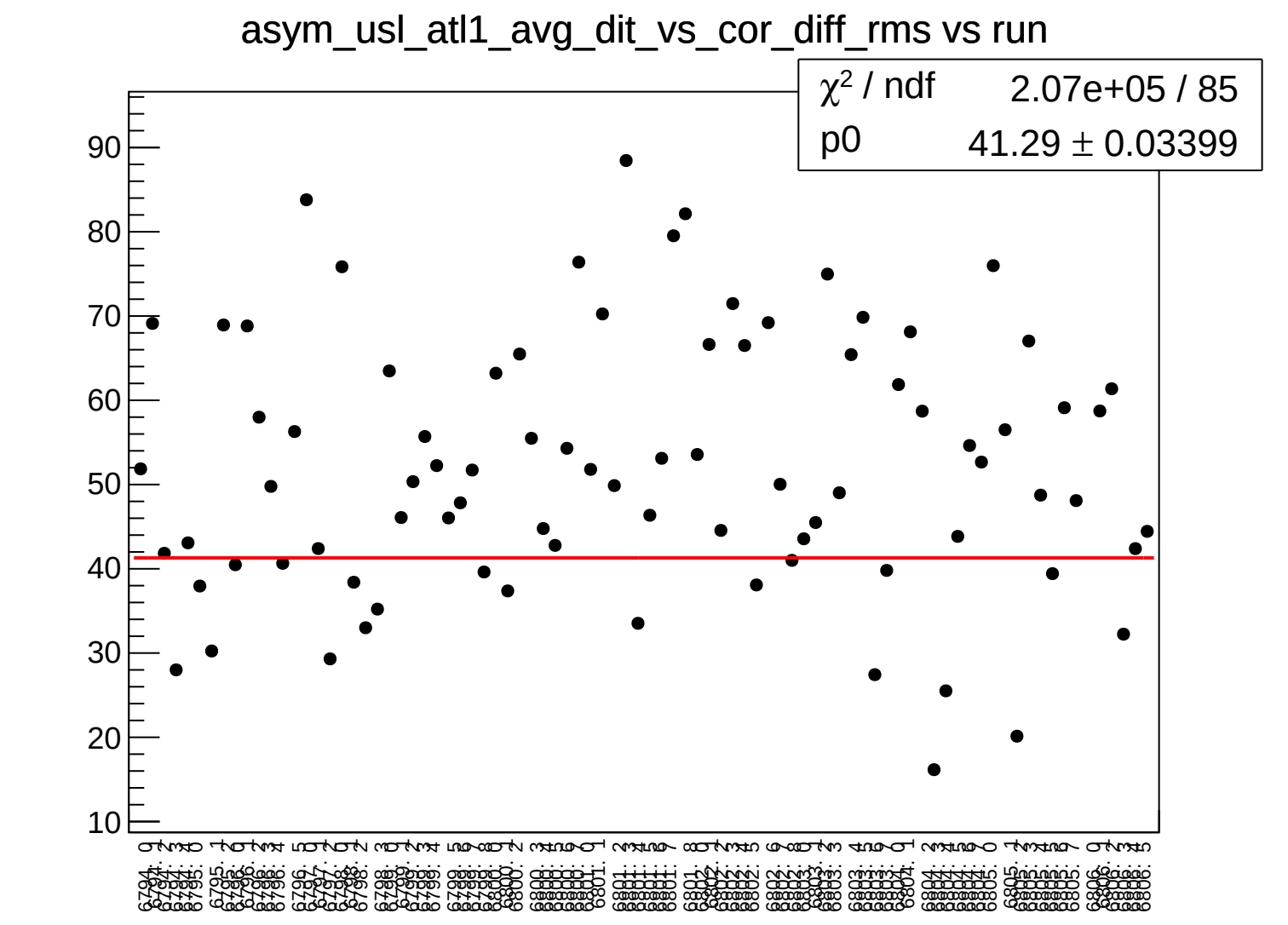

asym_usl_atl1_avg_rms vs run
χ² / ndf 458 / 85
p0 1680 ± 1.295
1780
1760
1740
1720
1700
1680
1660
1640
1620

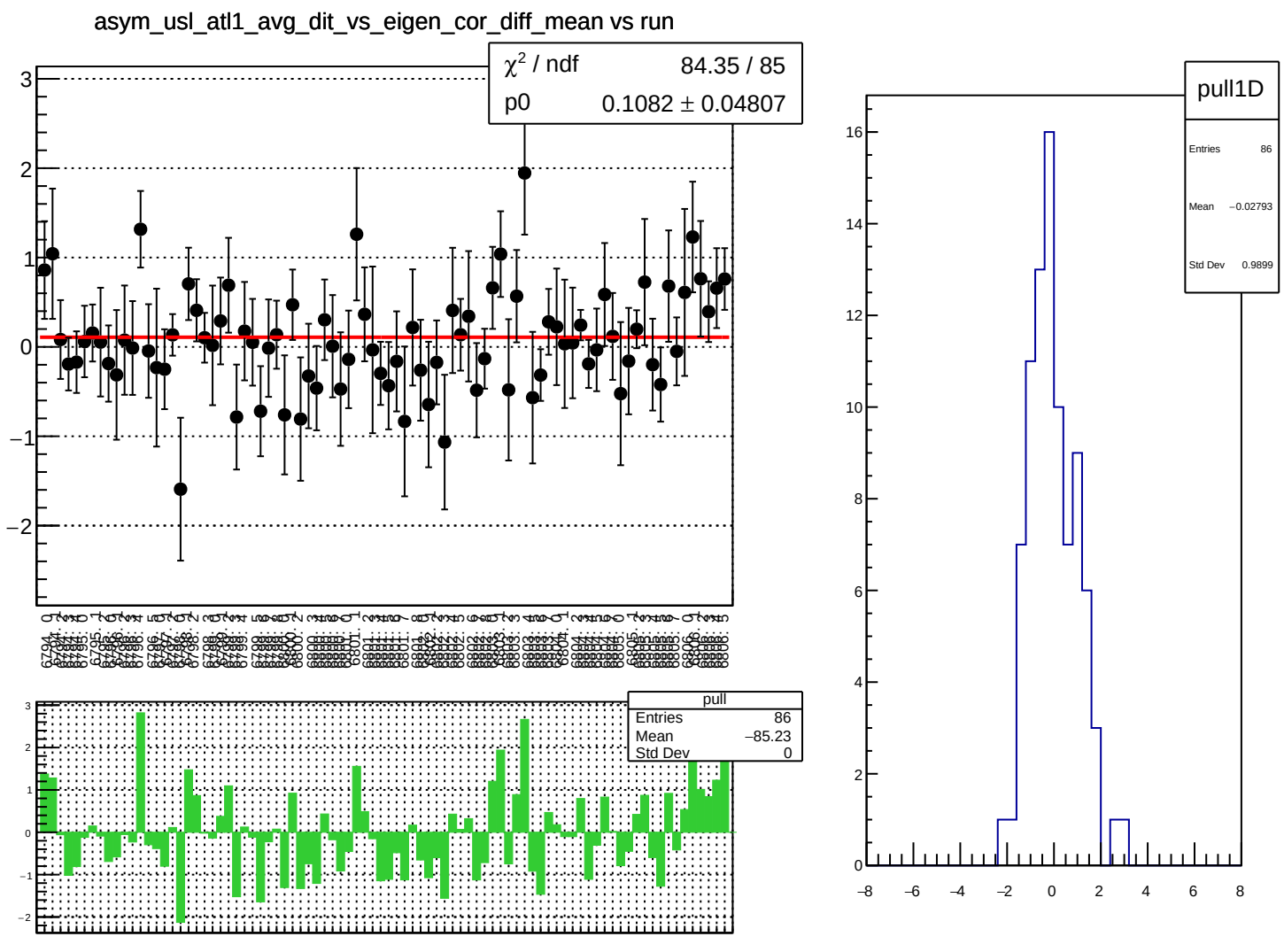

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.06 / 85
p0 −4.187e−14 ± 2.695e−14
pull
Entries 86
Mean 74.58
Std Dev 0

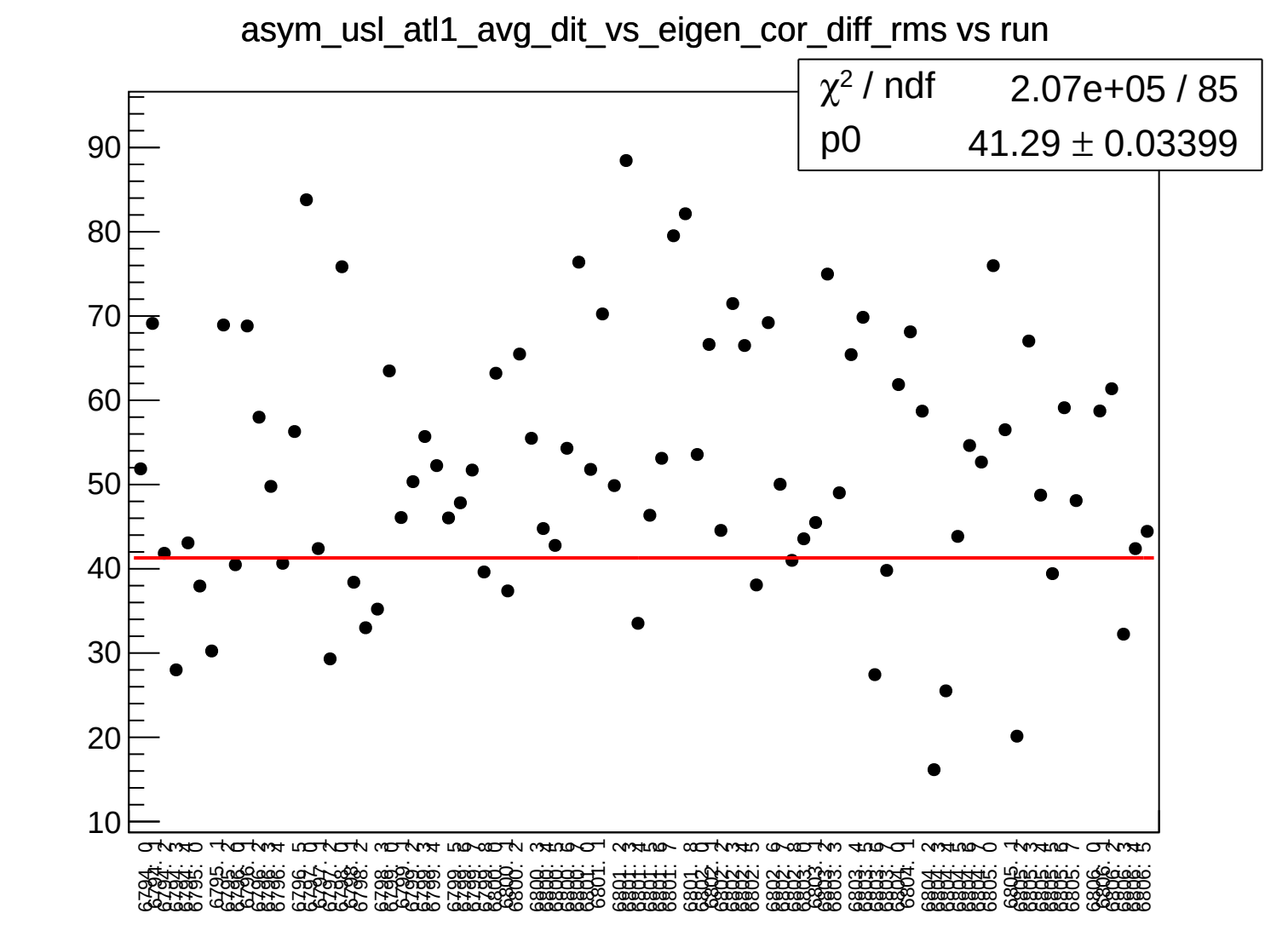

pull1D
Entries 86
Mean 0.04033
Std Dev 0.964

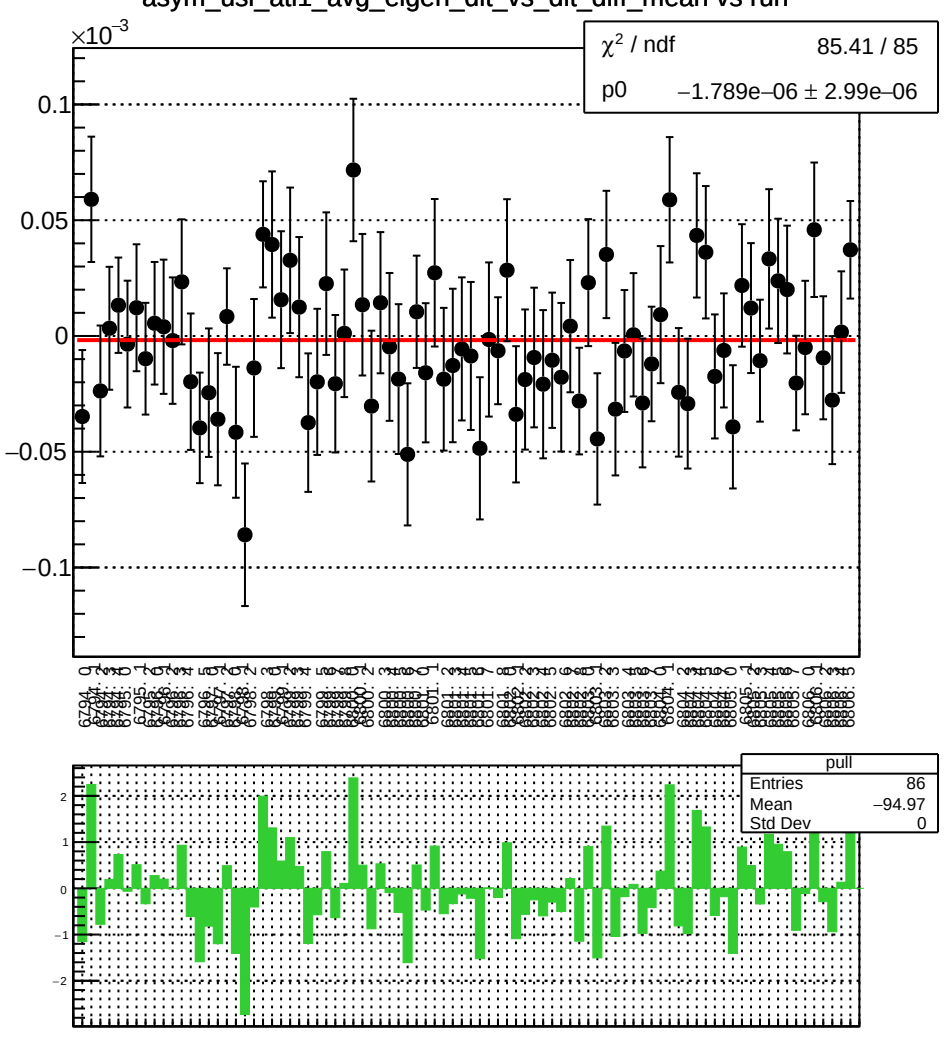

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.872e+05 / 85
p0 1.589e−11 ± 1.906e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

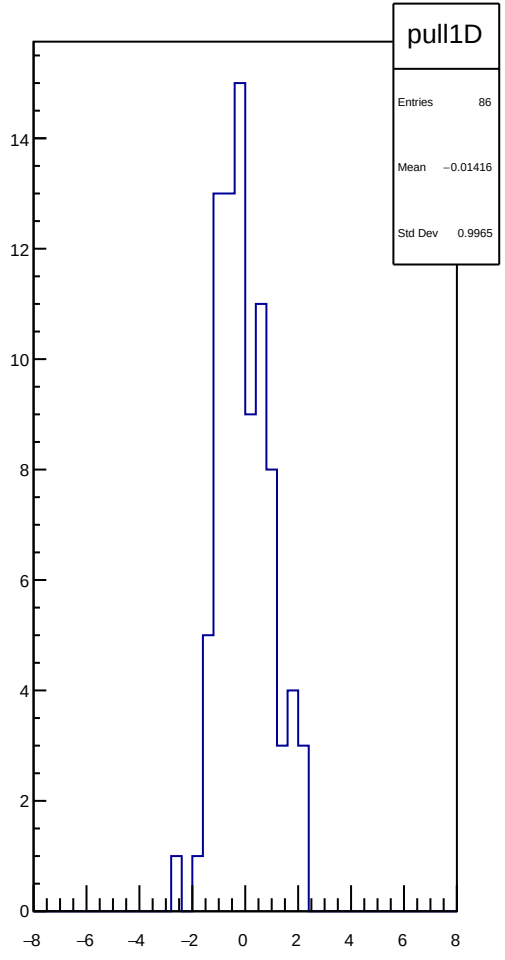

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 85
p0 0.1082 ± 0.04807
pull
Entries 86
Mean −85.23
Std Dev 0
pull1D
Entries 86
Mean −0.02793
Std Dev 0.9899

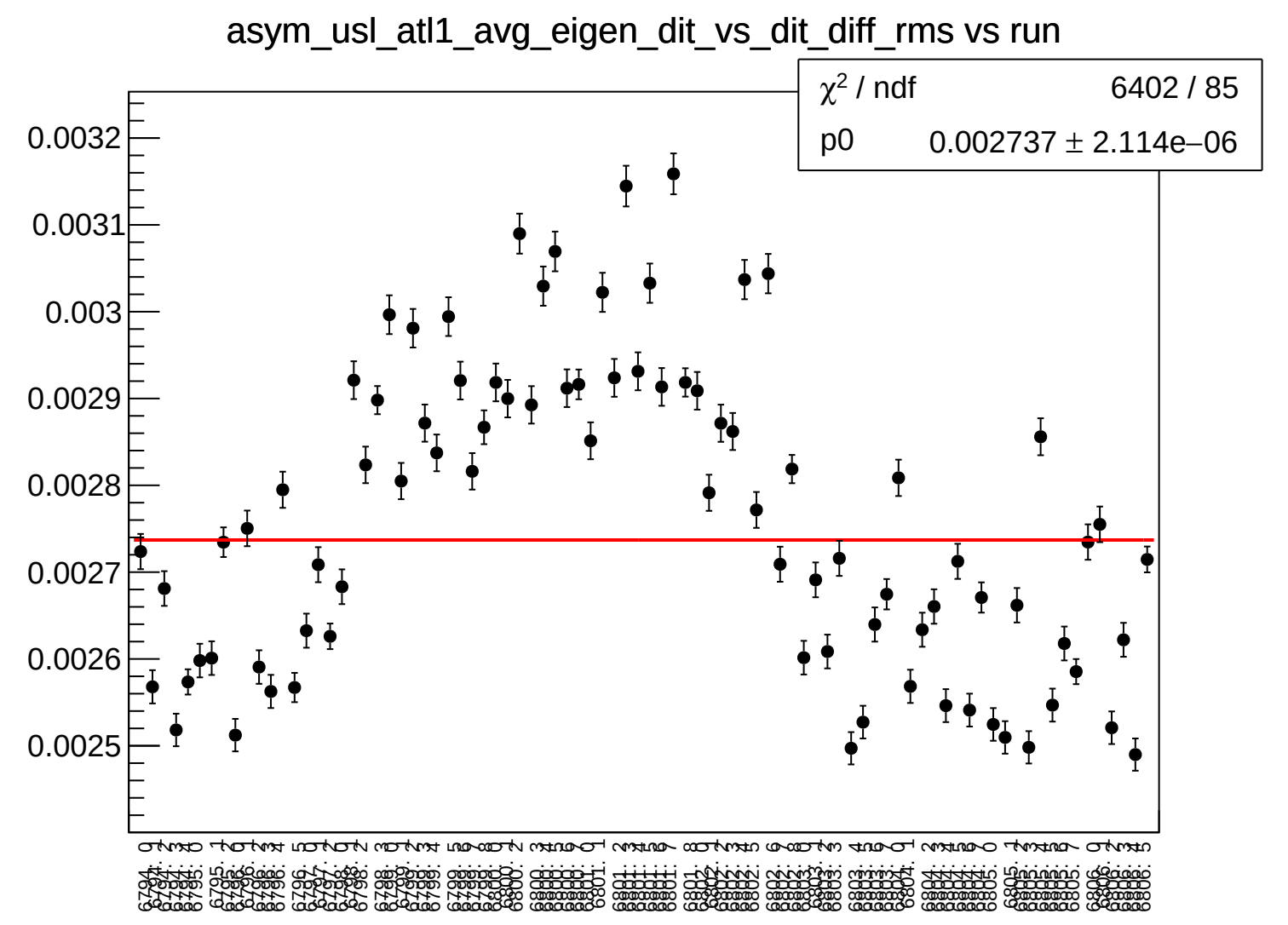

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 85
p0 41.29 ± 0.03399
90
80
70
60
50
40
30
20
10

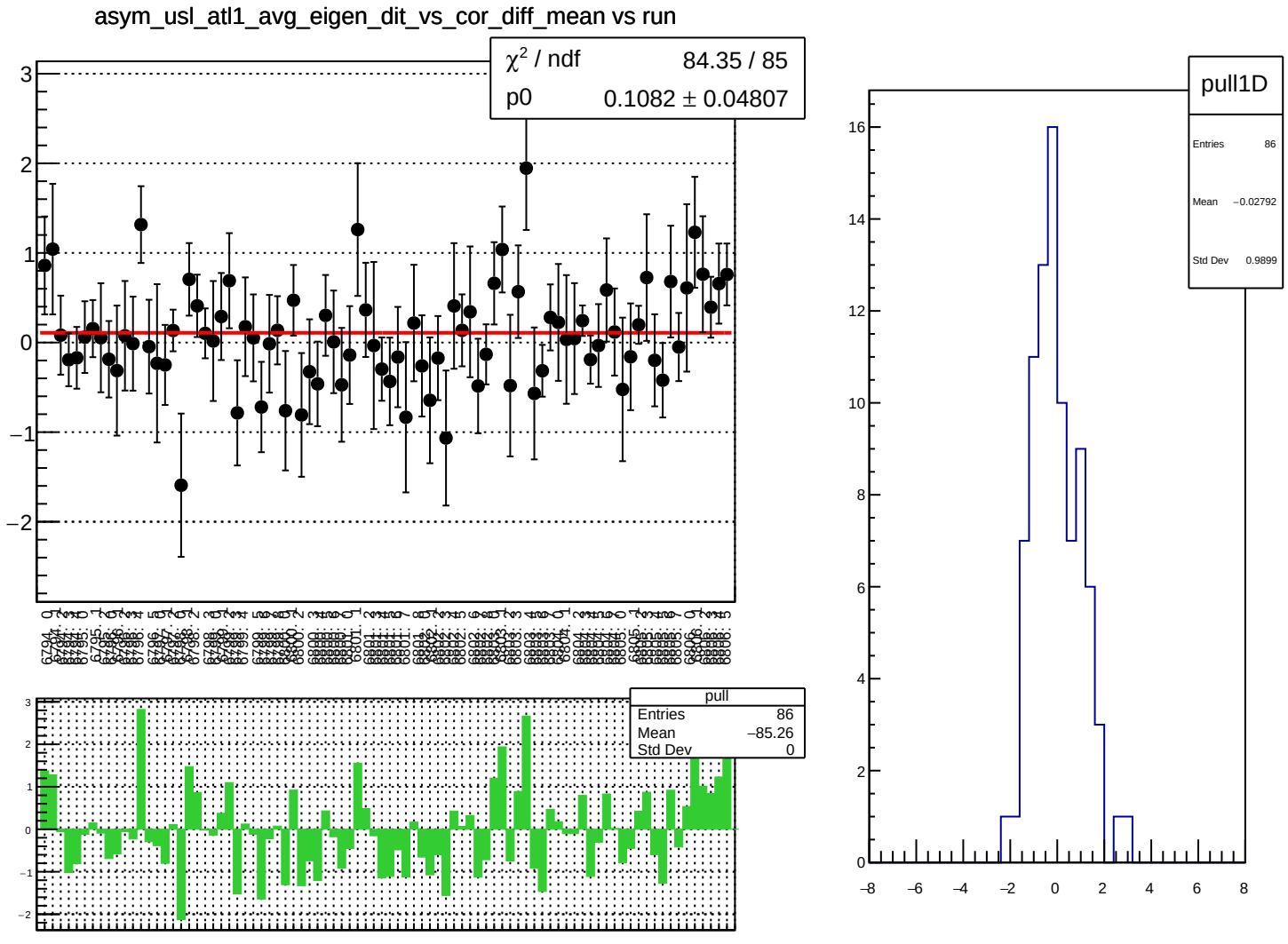

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.35 / 85
p0 0.1082 ± 0.04807
pull
Entries 86
Mean −85.23
Std Dev 0
pull1D
Entries 86
Mean −0.02793
Std Dev 0.9899

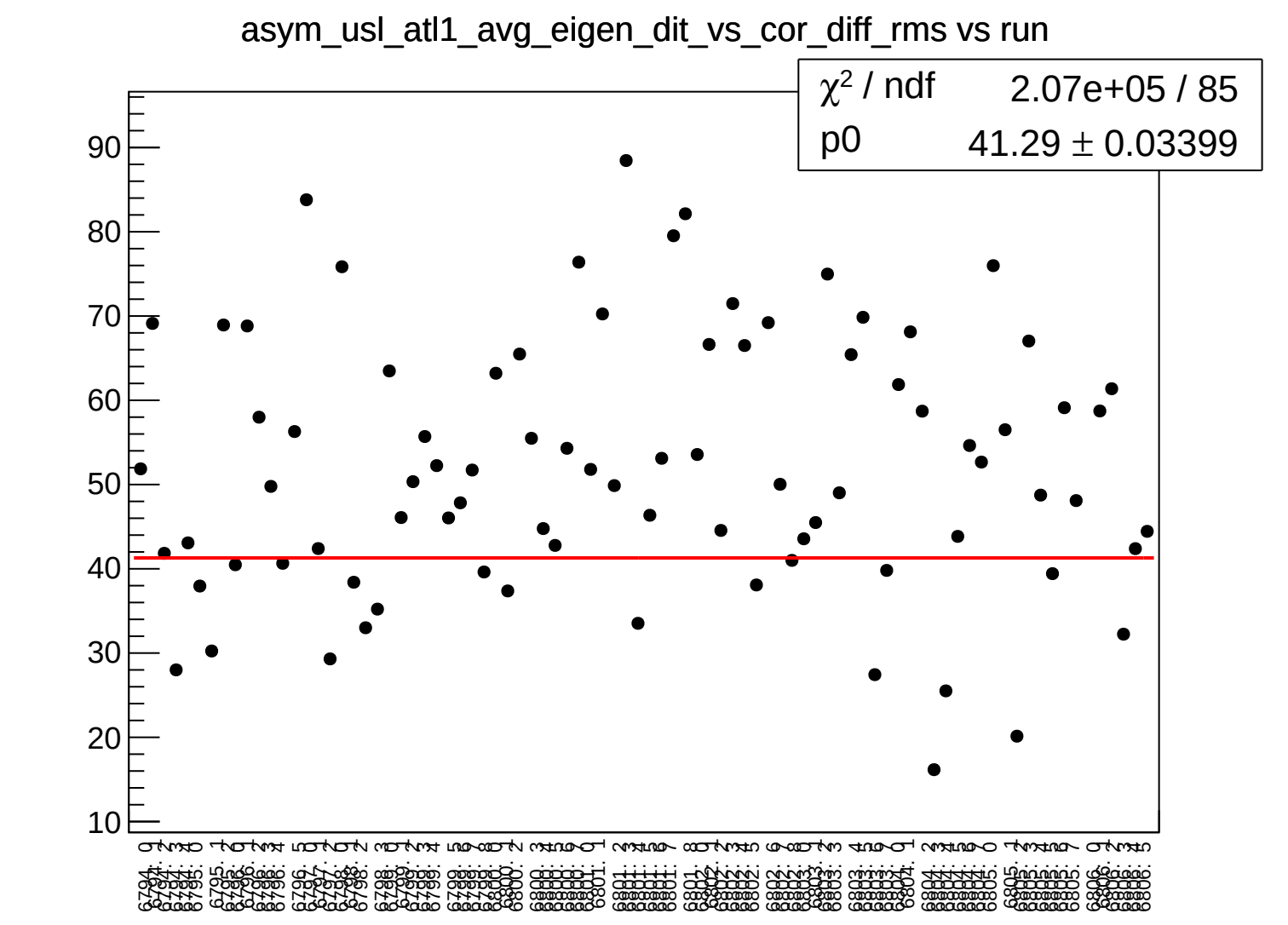

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 85
p0 41.29 ± 0.03399
90
80
70
60
50
40
30
20
10

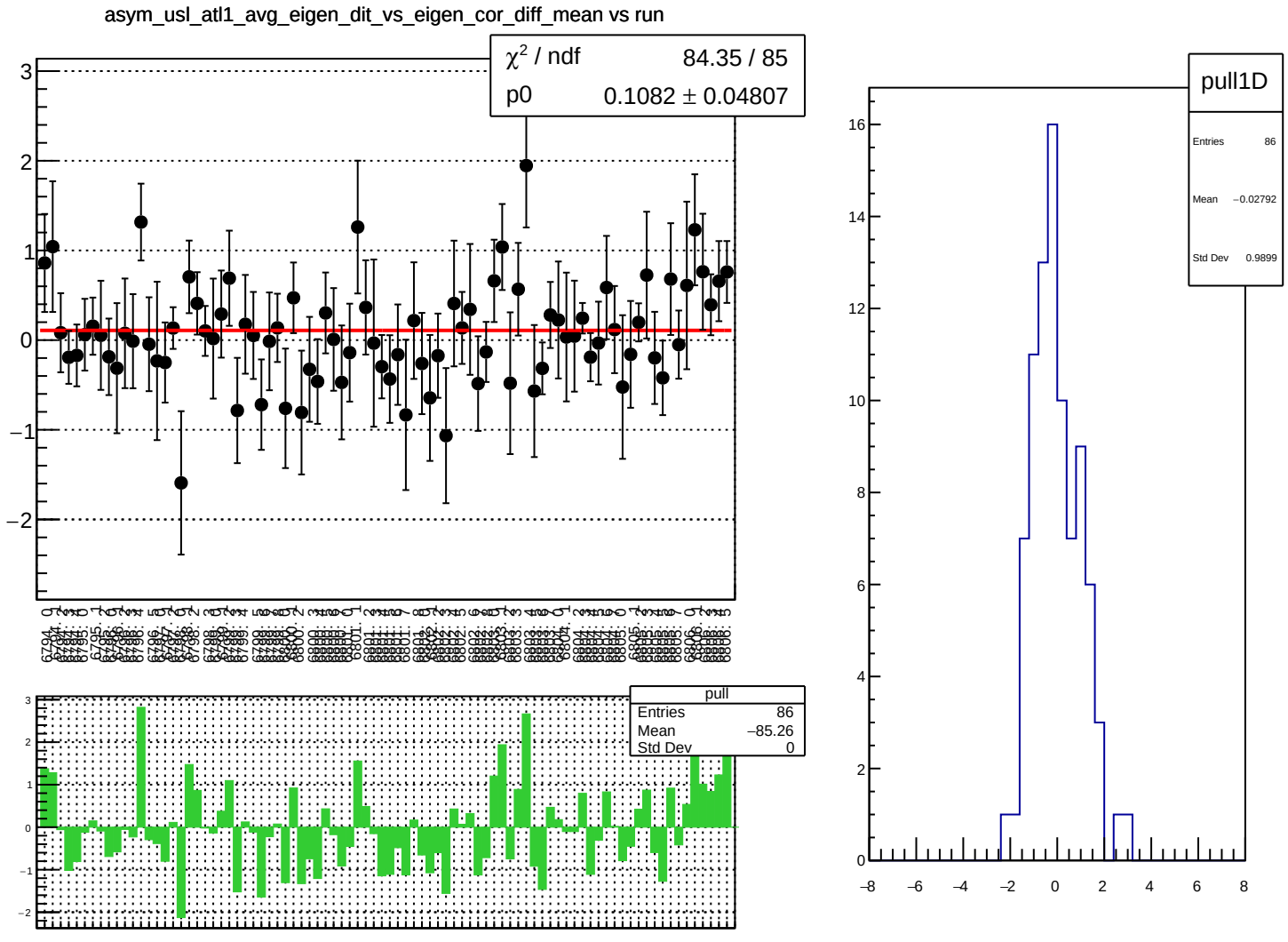

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.41 / 85
p0 −1.789e−06 ± 2.99e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −94.97
Std Dev 0
2
1
0
−1
−2

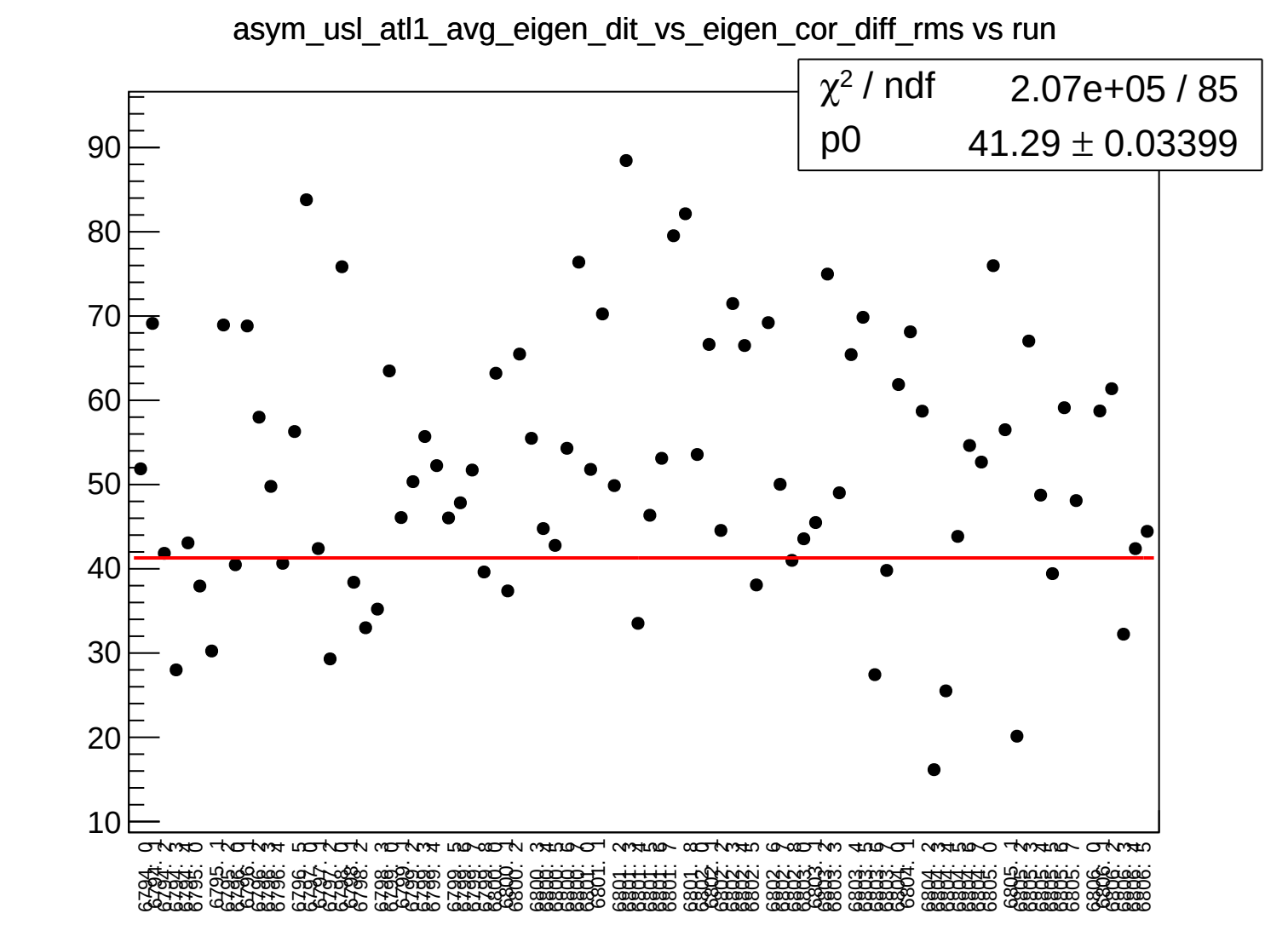

pull1D
Entries 86
Mean −0.01416
Std Dev 0.9965
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

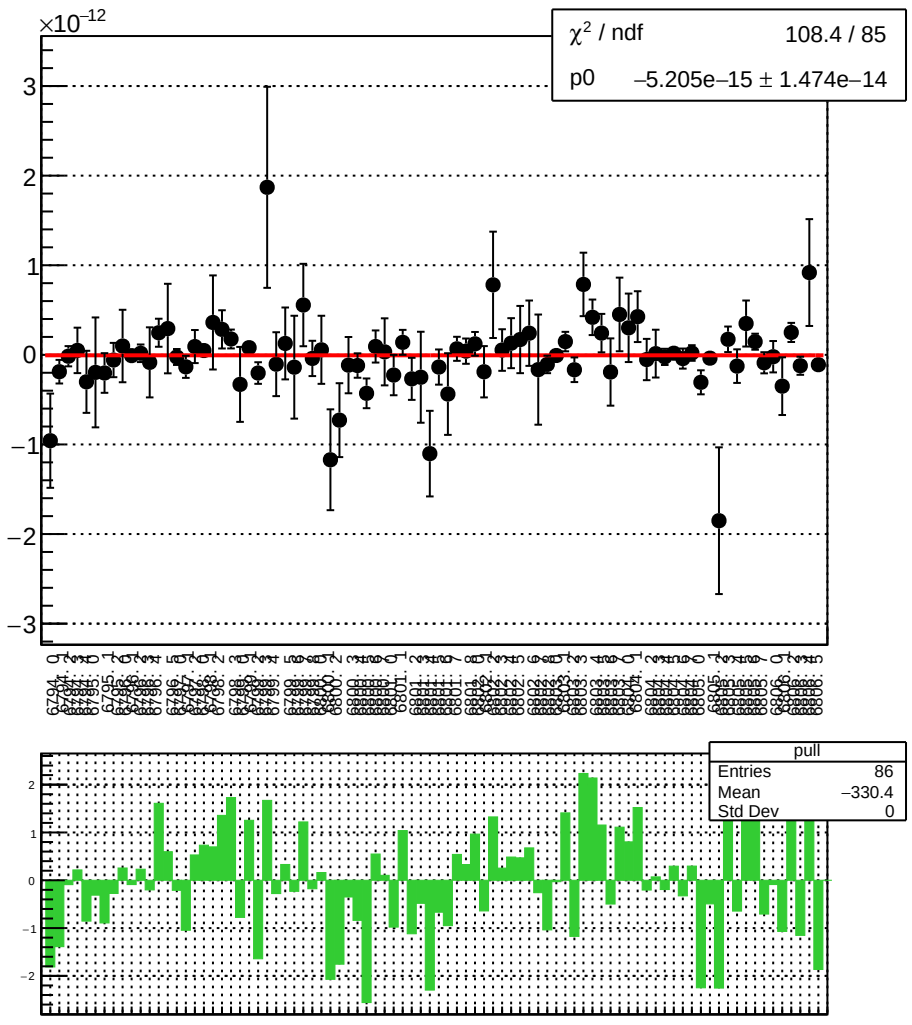

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6402 / 85
p0 0.002737 ± 2.114e−06
0.0032
0.0031
0.003
0.0029
0.0028
0.0027
0.0026
0.0025

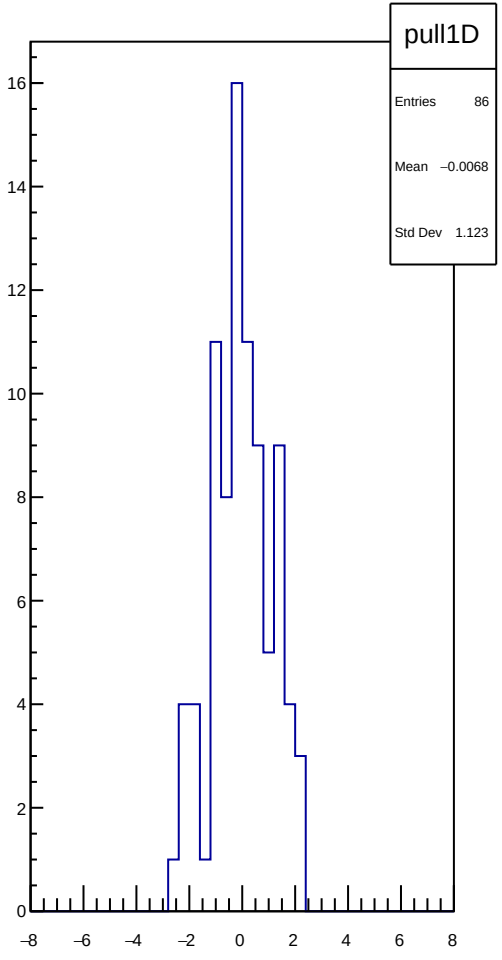

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.35 / 85
p0 0.1082 ± 0.04807
pull
Entries 86
Mean −85.26
Std Dev 0
pull1D
Entries 86
Mean −0.02792
Std Dev 0.9899

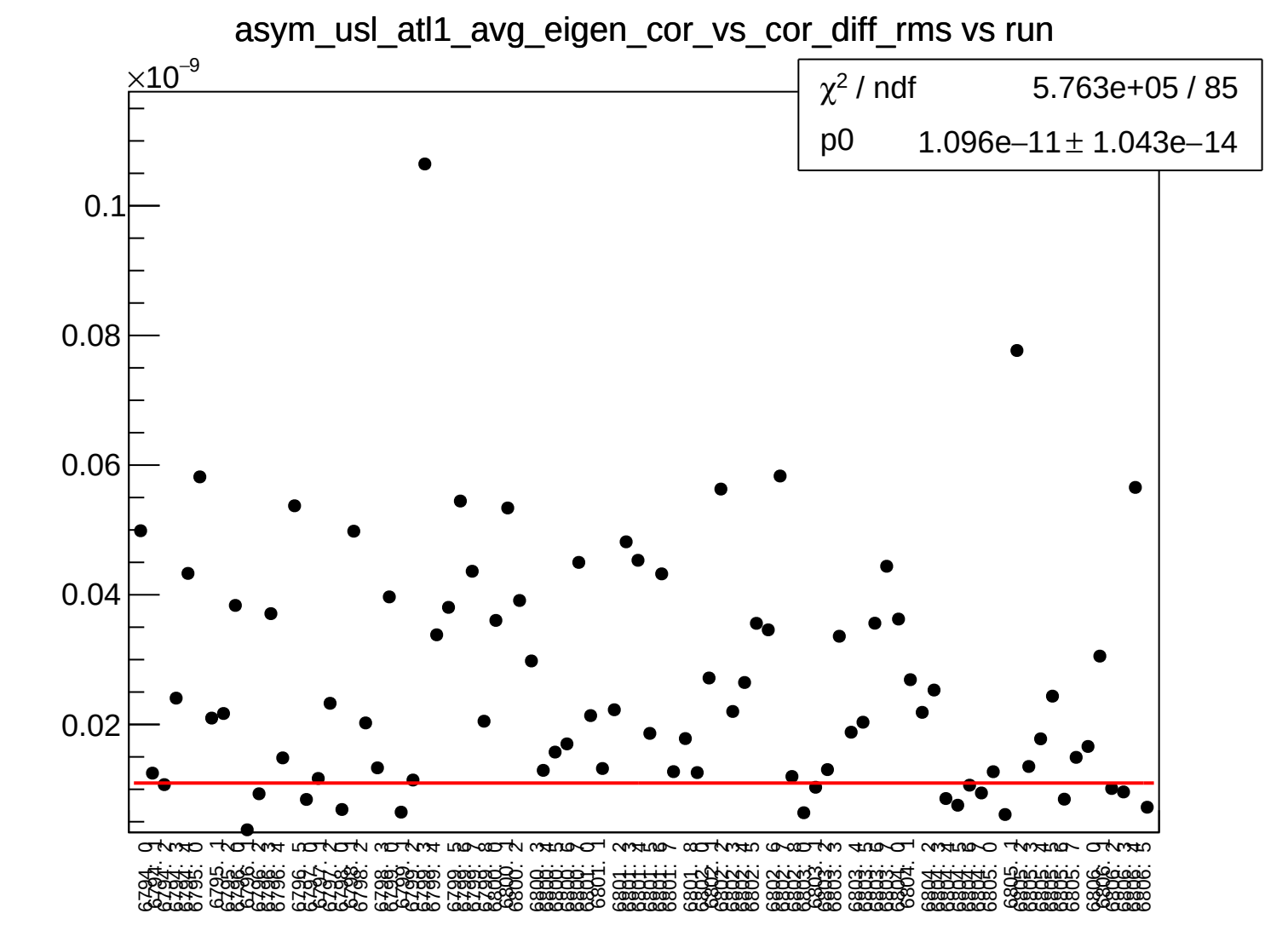

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 85
p0 41.29 ± 0.03399
90
80
70
60
50
40
30
20
10

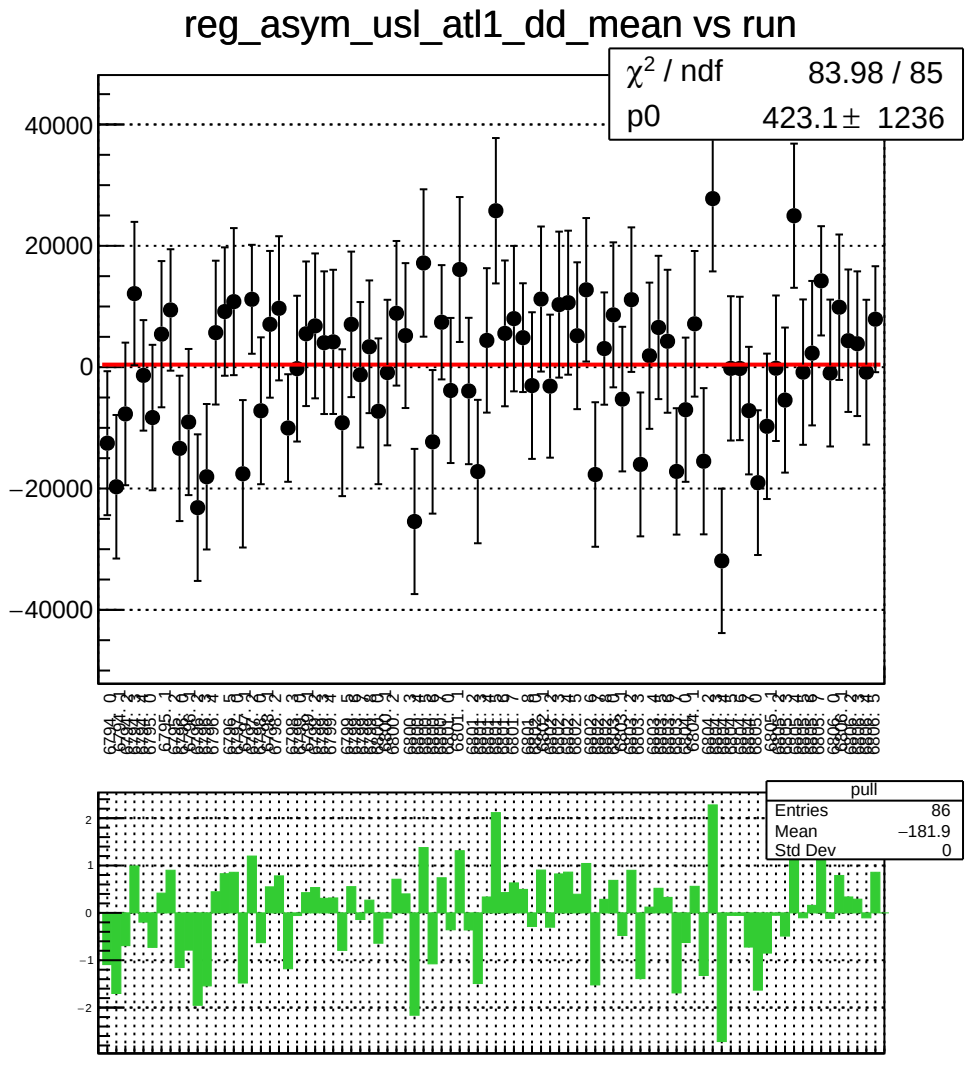

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.35 / 85
p0 0.1082 ± 0.04807
pull
Entries 86
Mean −85.26
Std Dev 0
pull1D
Entries 86
Mean −0.02792
Std Dev 0.9899

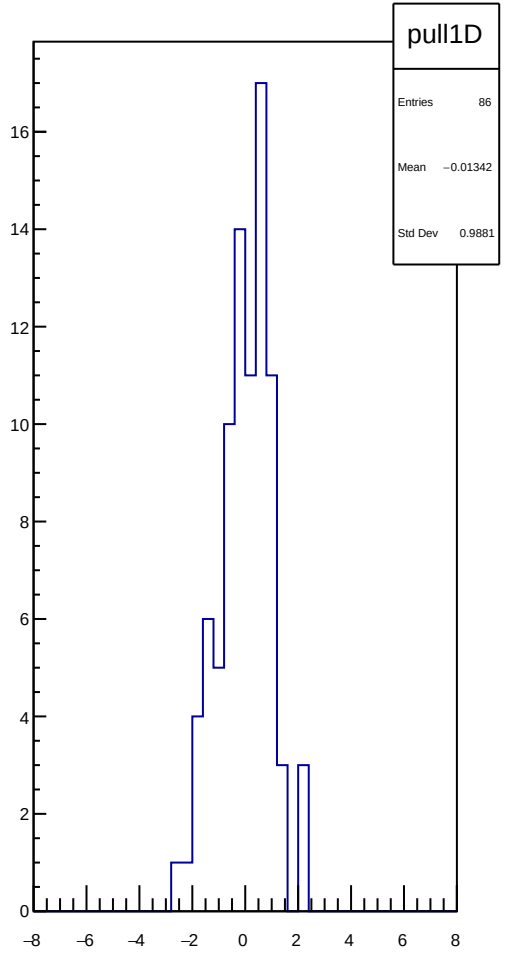

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.07e+05 / 85
p0 41.29 ± 0.03399
90
80
70
60
50
40
30
20
10

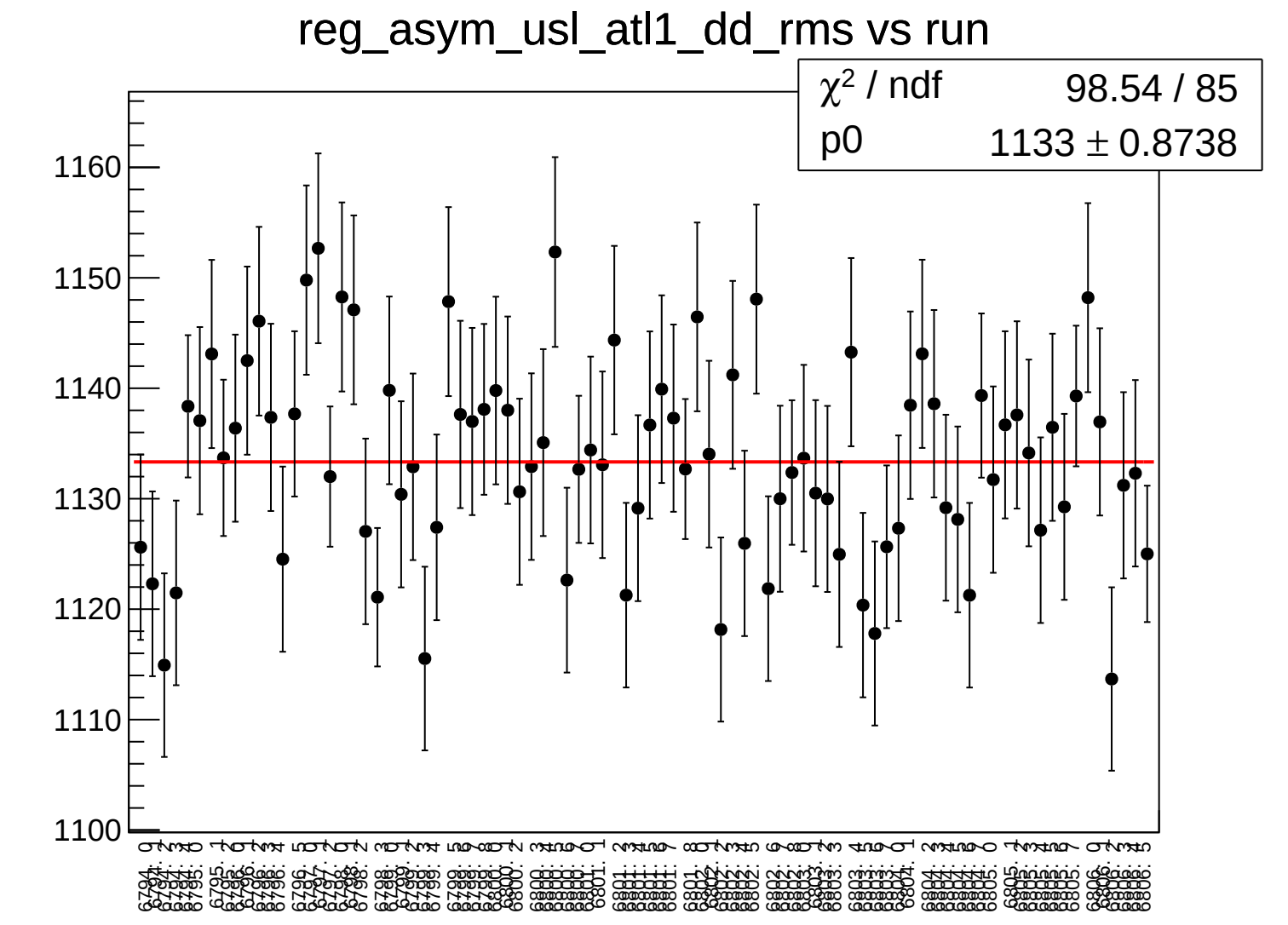

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 108.4 / 85
p0 −5.205e−15 ± 1.474e−14
pull
Entries 86
Mean −330.4
Std Dev 0

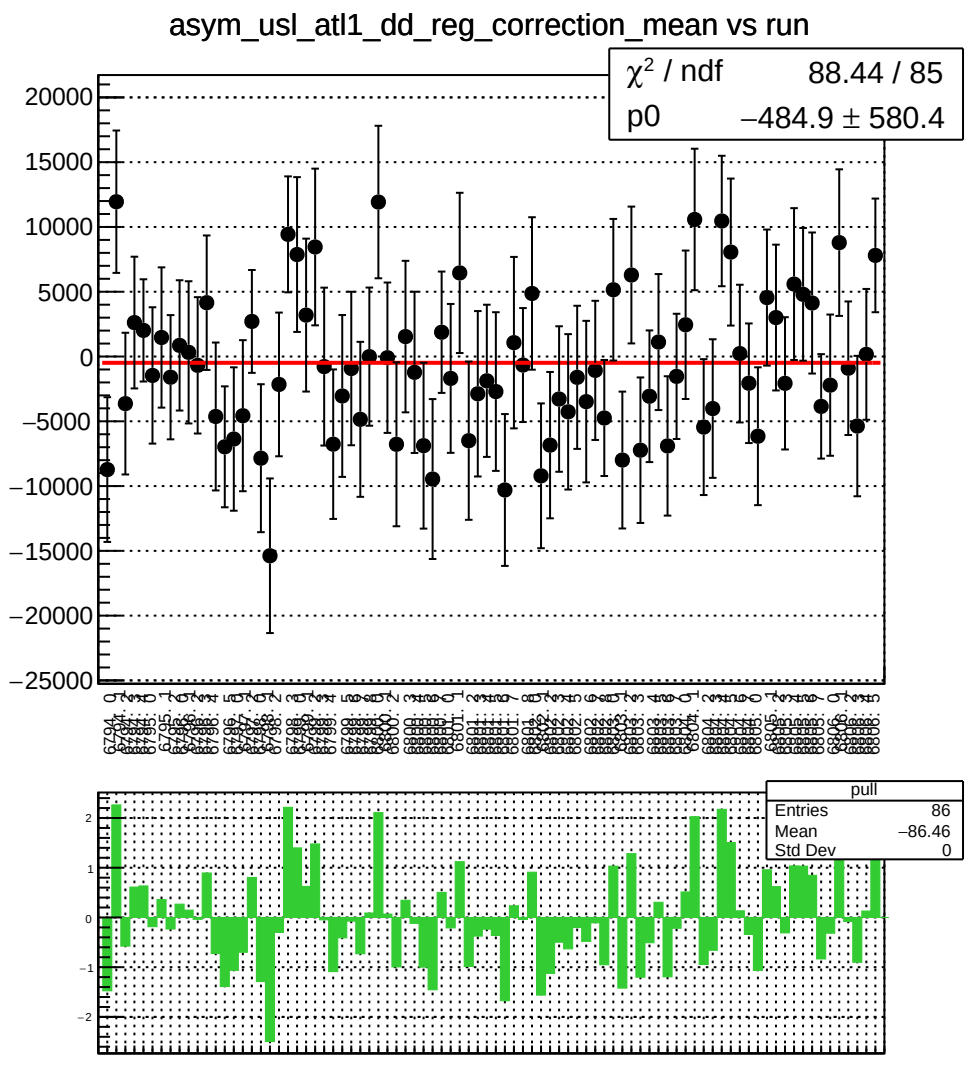

pull1D
Entries 86
Mean −0.0068
Std Dev 1.123

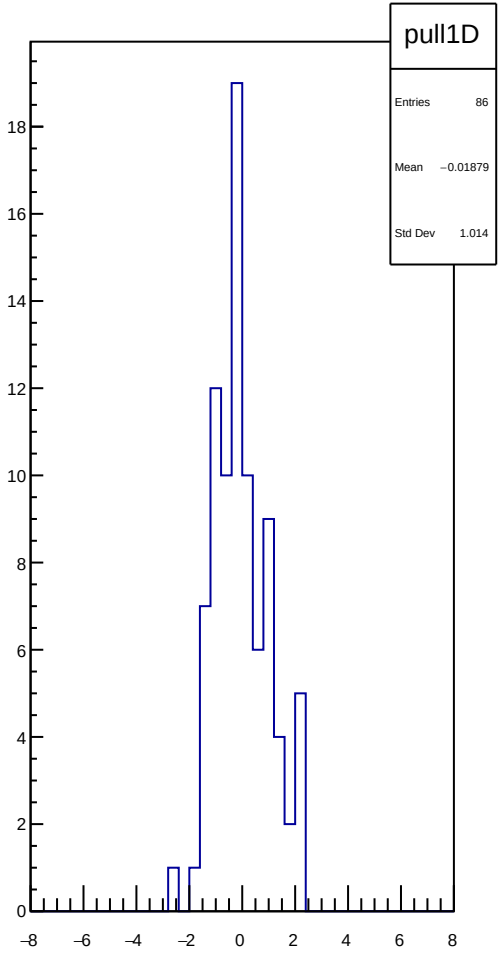

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.763e+05 / 85
p0 1.096e−11 ± 1.043e−14
0.1
0.08
0.06
0.04
0.02

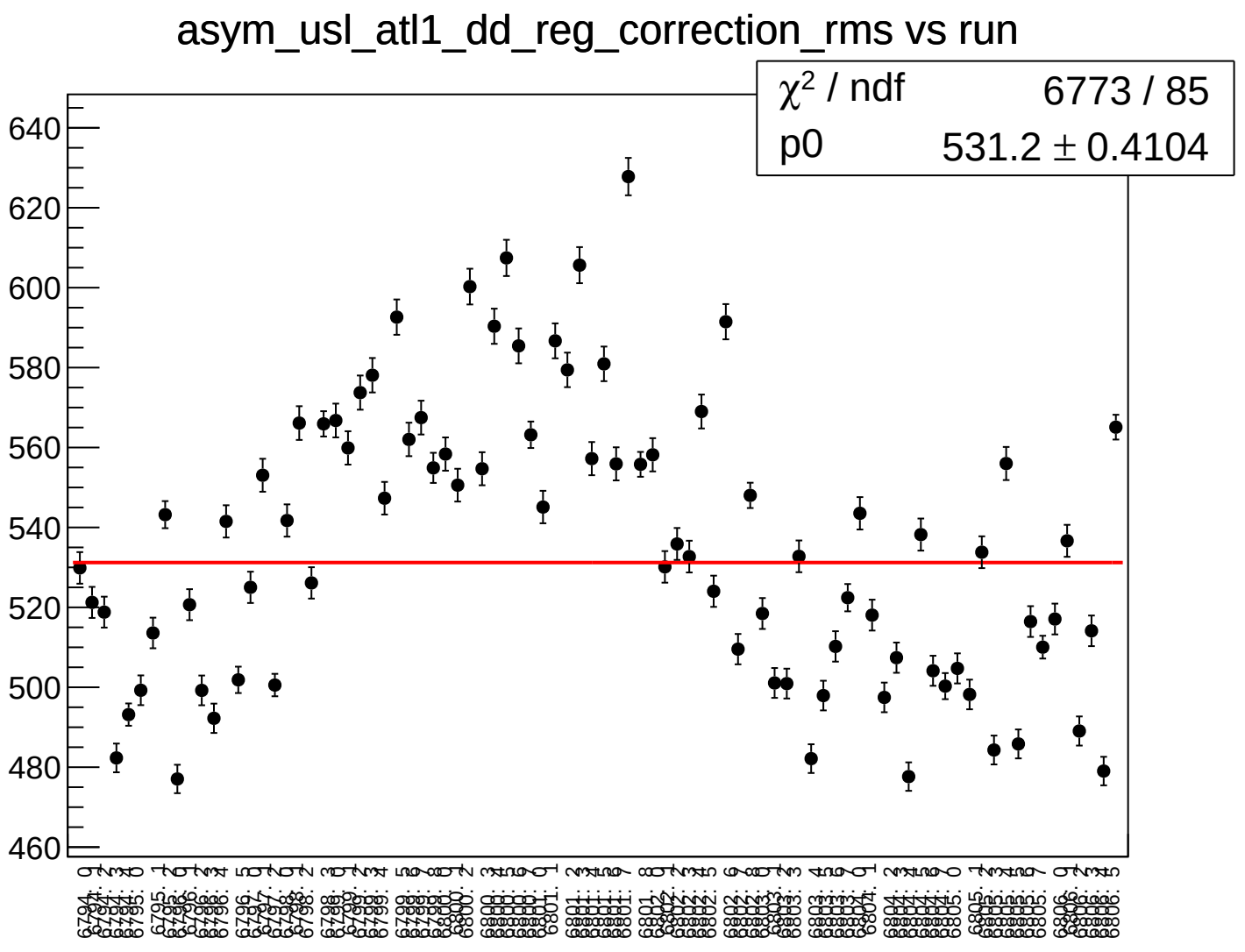

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.98 / 85
p0 423.1 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −181.9
Std Dev 0
2
1
0
−1
−2

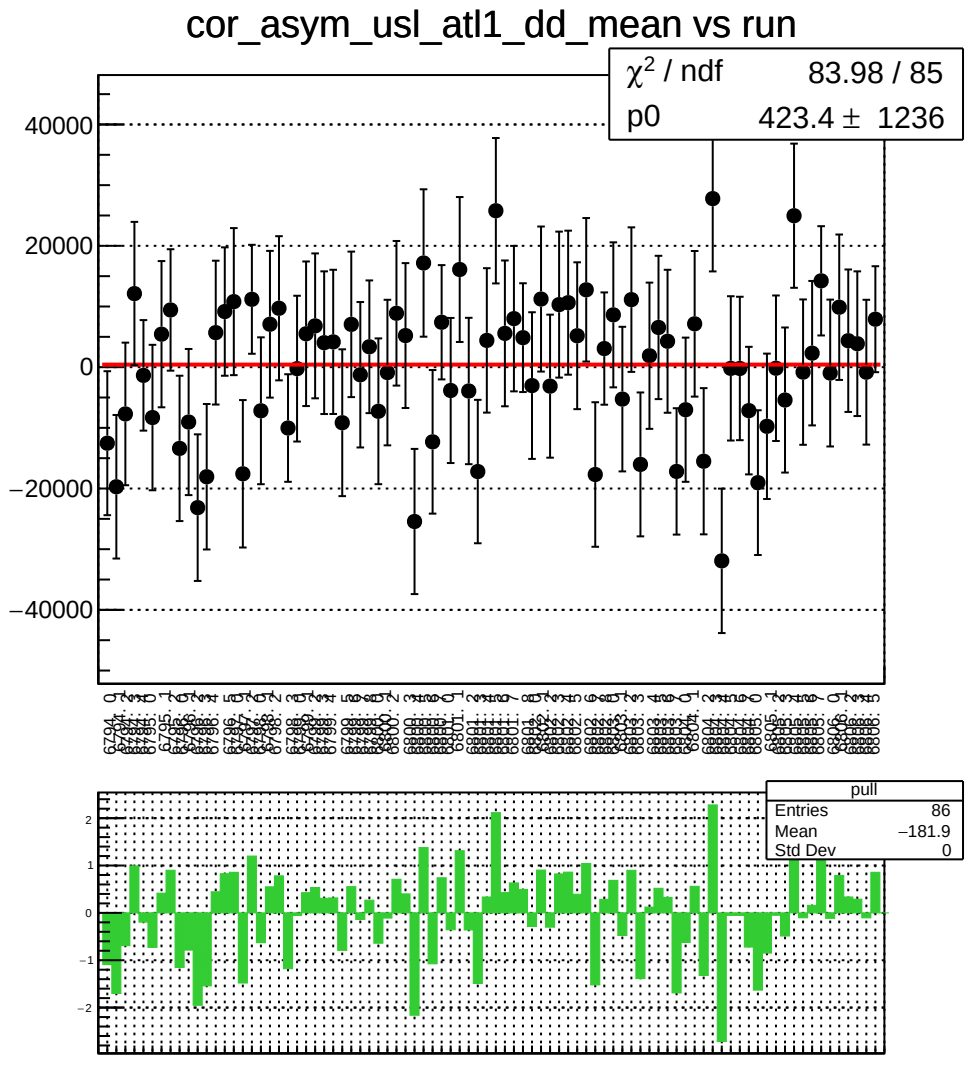

pull1D
Entries 86
Mean −0.01342
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

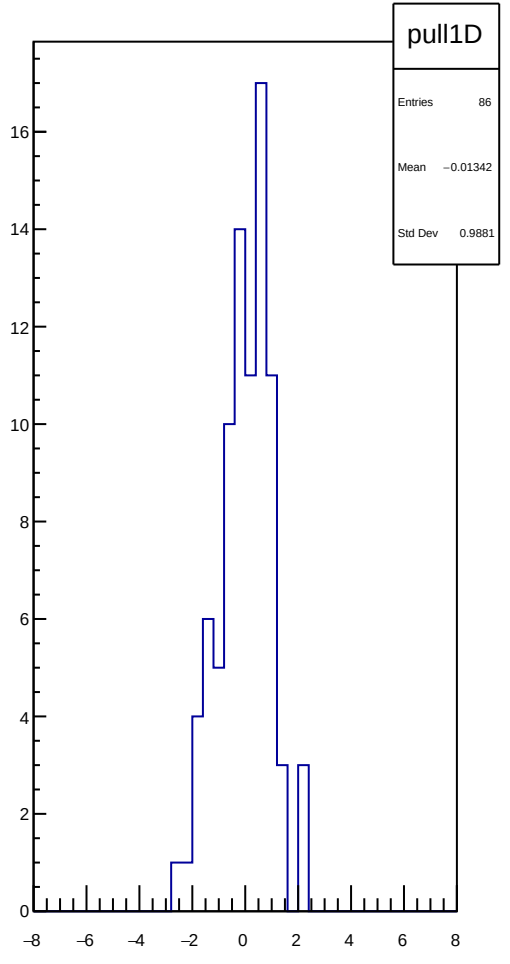

reg_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 98.54 / 85
p0 1133 ± 0.8738
1160
1150
1140
1130
1120
1110
1100


asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 88.44 / 85
p0 −484.9 ± 580.4
pull
Entries 86
Mean −86.46
Std Dev 0


pull1D
Entries 86
Mean −0.01879
Std Dev 1.014


asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 6773 / 85
p0 531.2 ± 0.4104
640
620
600
580
560
540
520
500
480
460


cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.98 / 85
p0 423.4 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −181.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.01342
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
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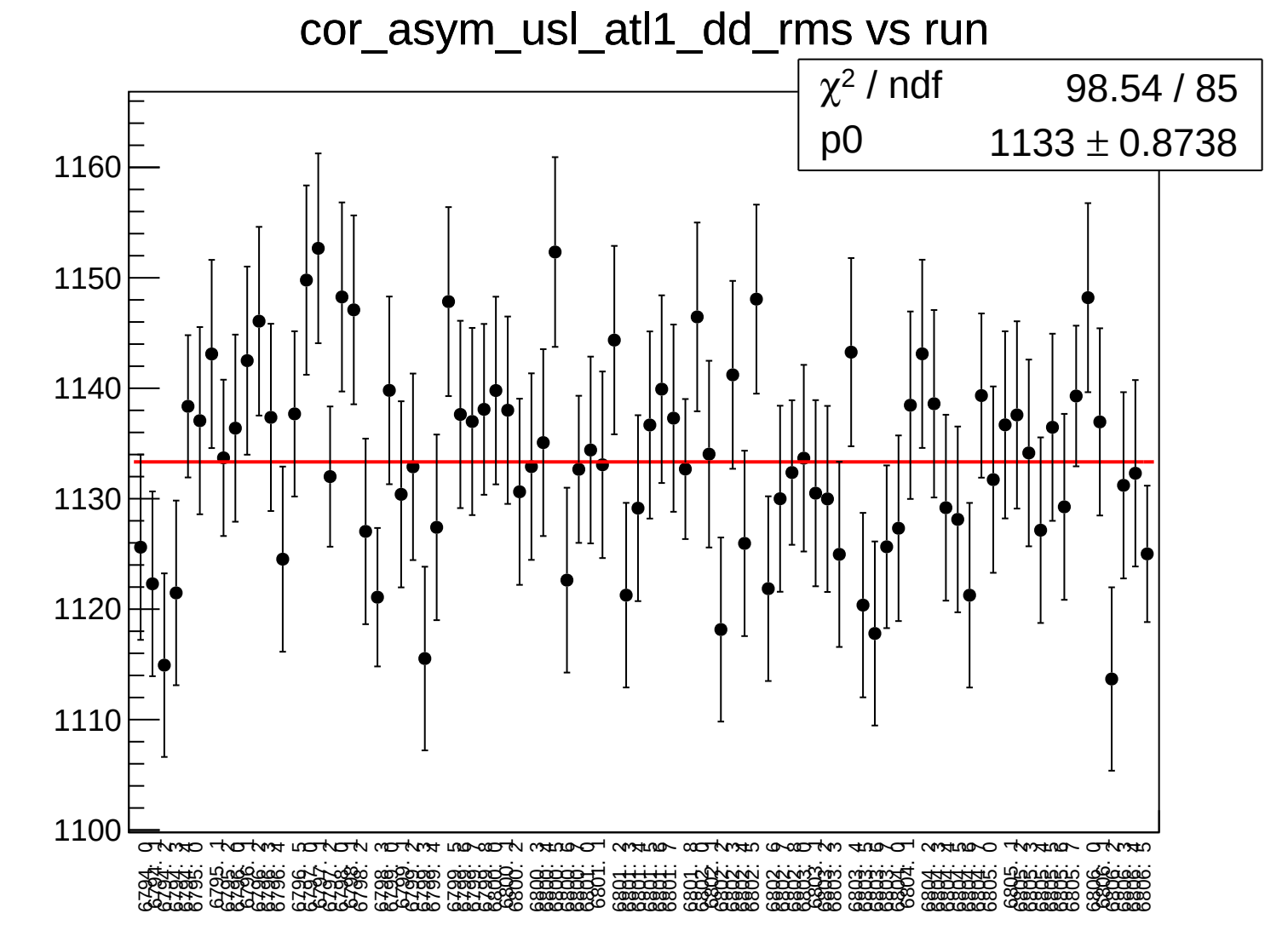
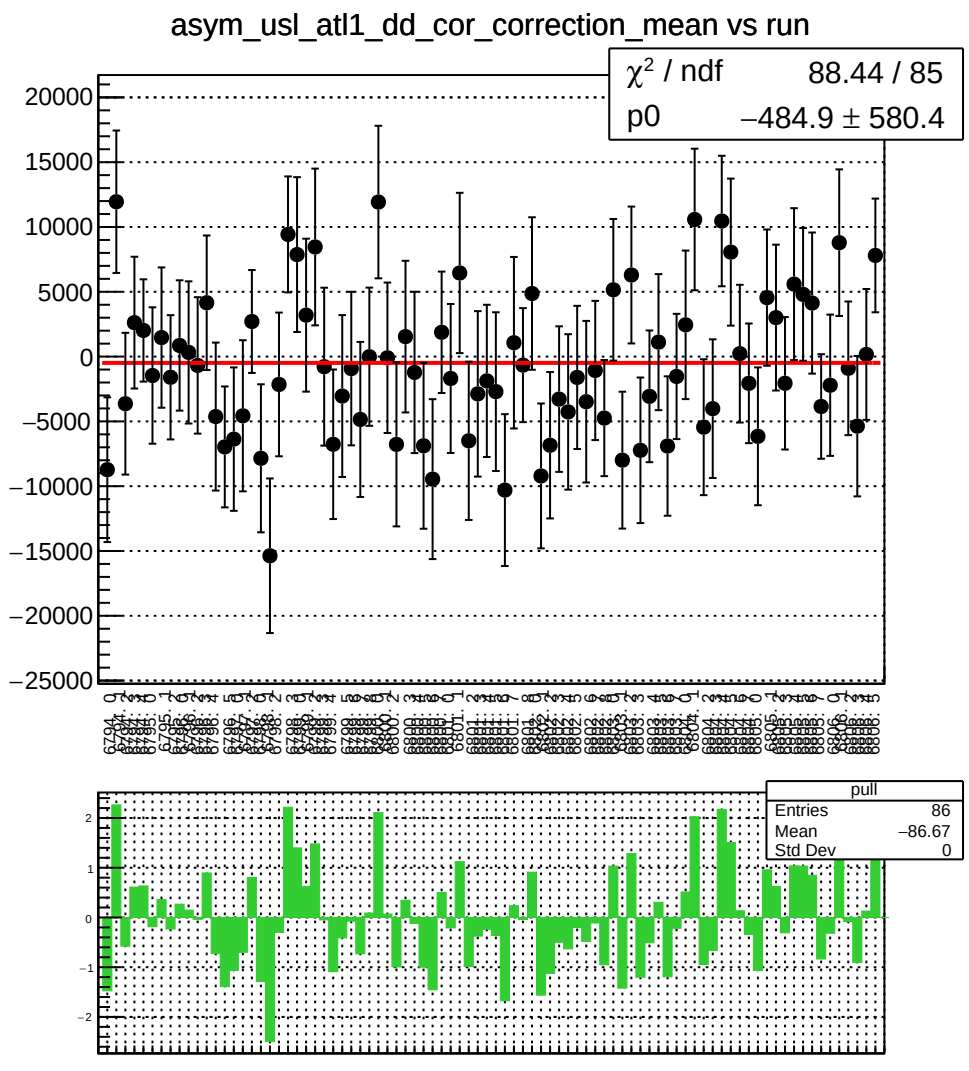
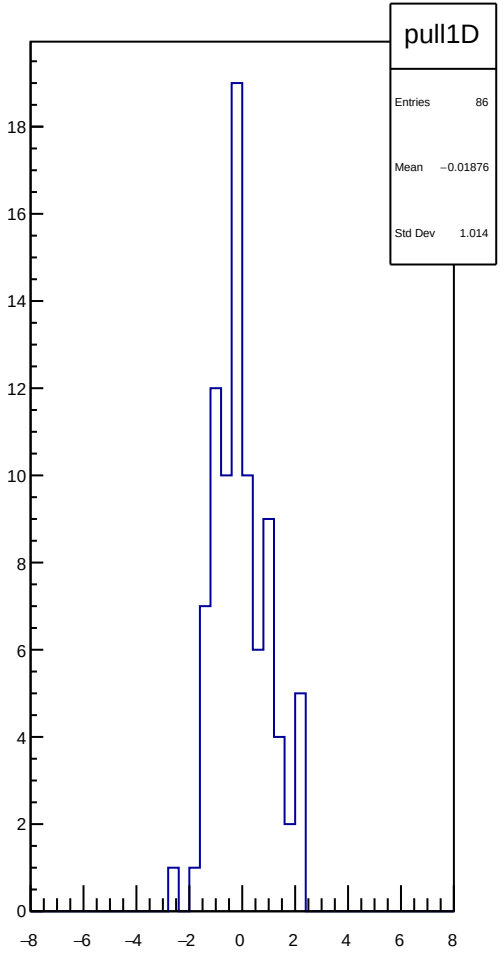
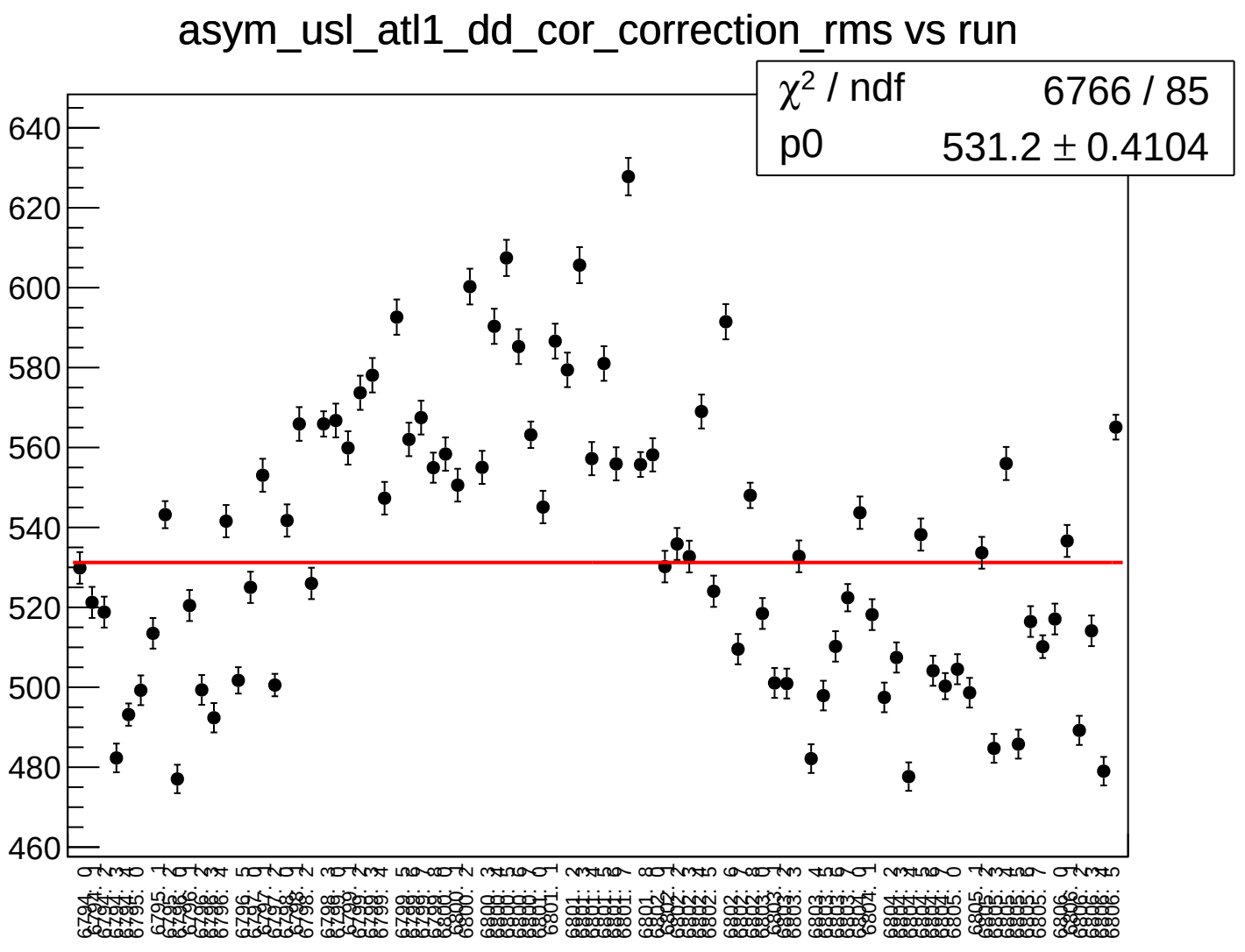
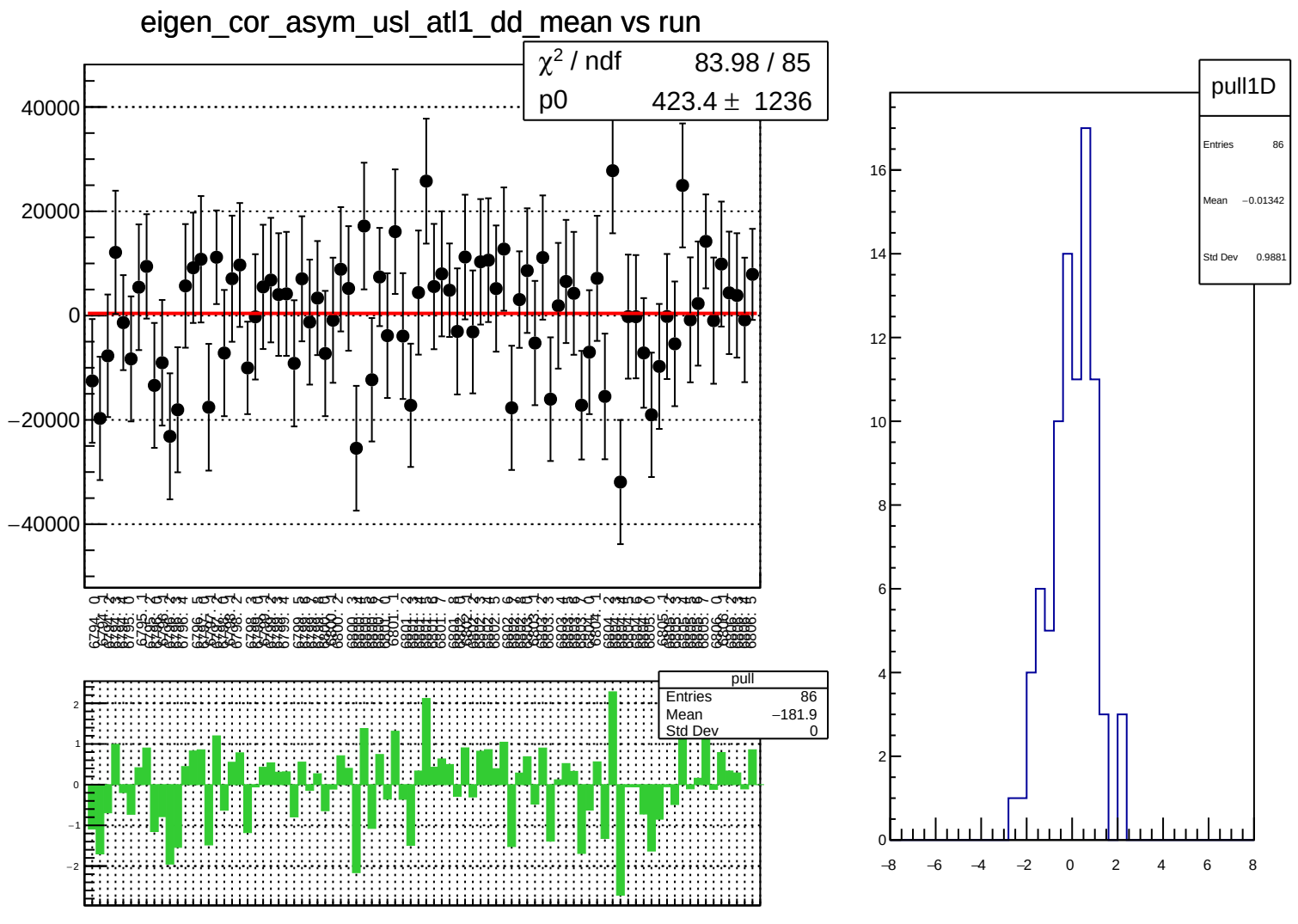
0
2
4
6
8

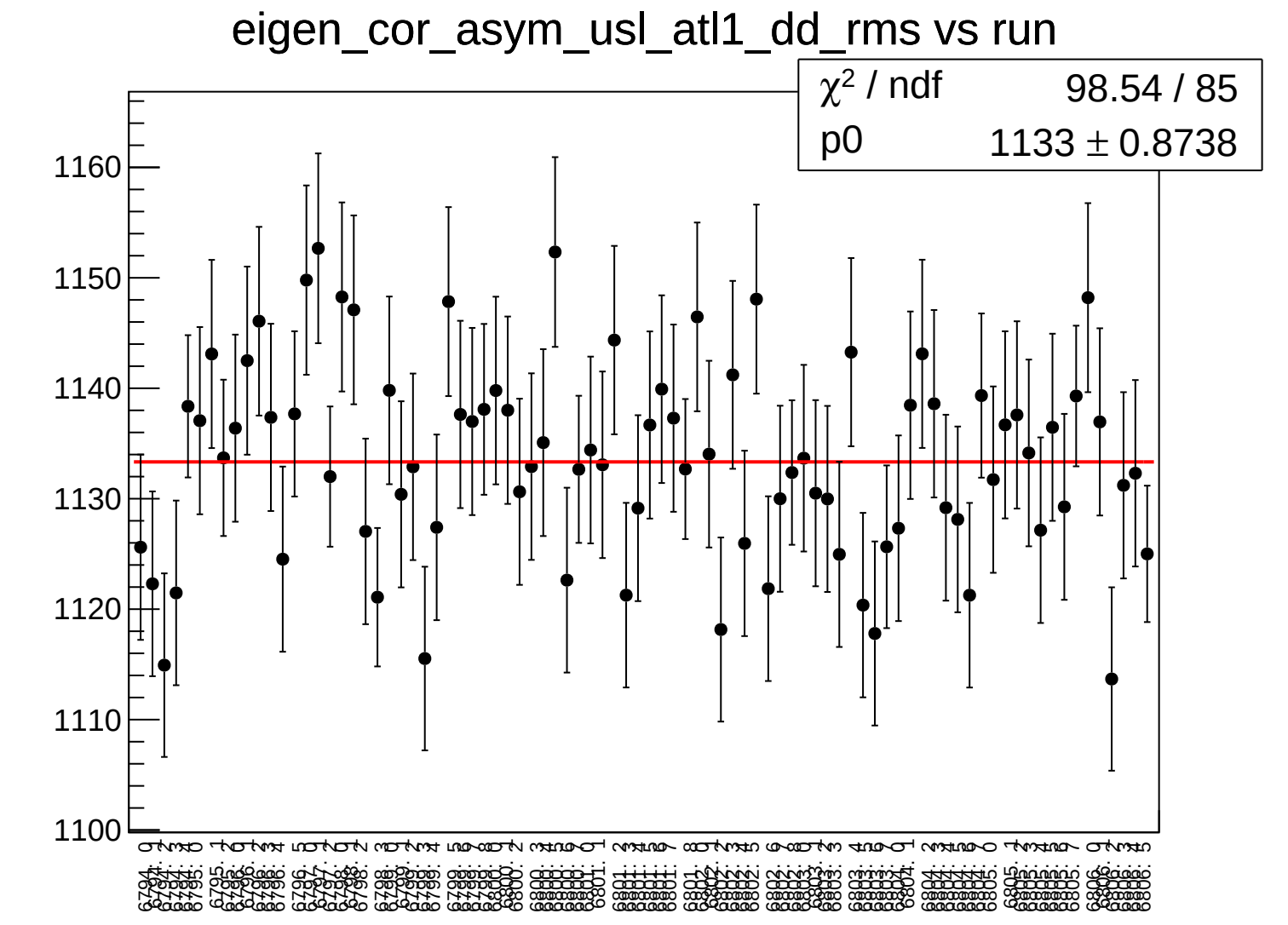

cor_asym_usl_atl1_dd_rms vs run
χ^2 / ndf 98.54 / 85
p0 1133 ± 0.8738
1160
1150
1140
1130
1120
1110
1100

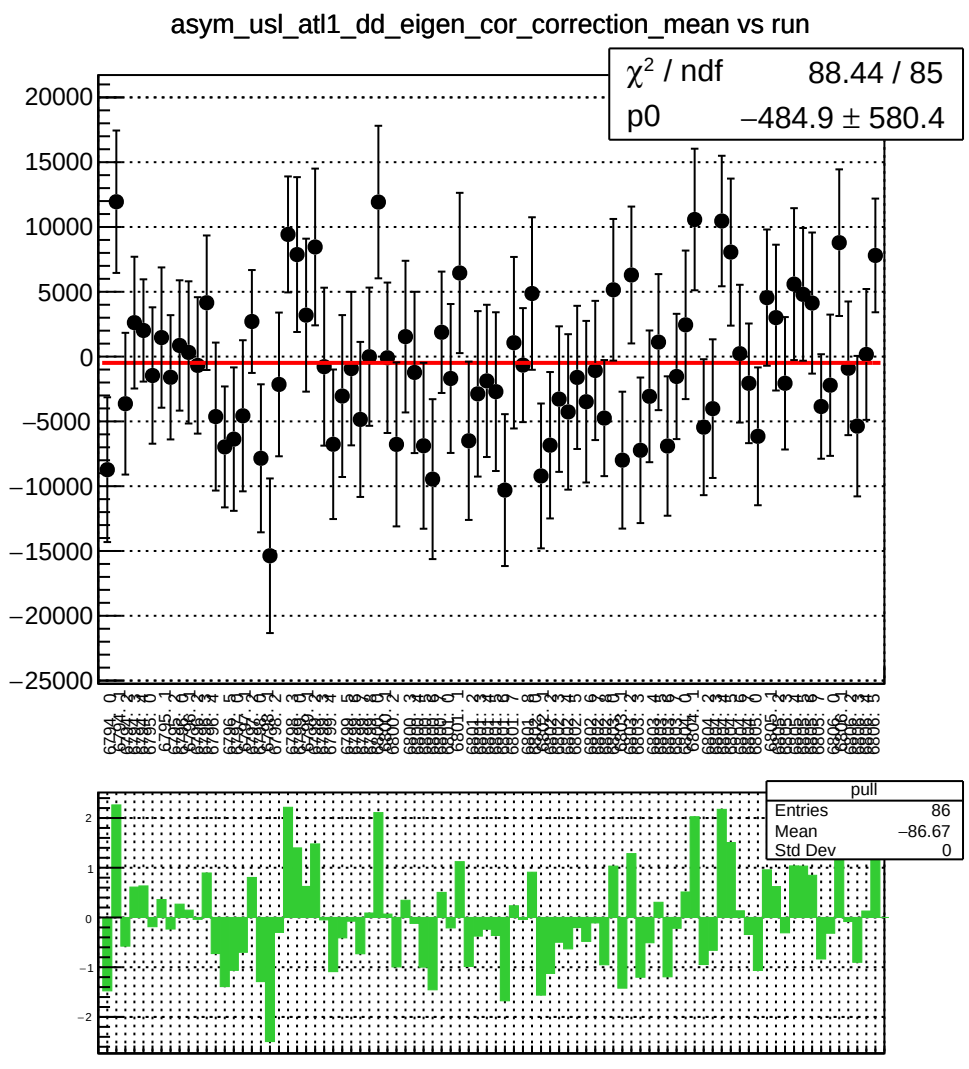

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 88.44 / 85
p0 −484.9 ± 580.4
pull
Entries 86
Mean −86.67
Std Dev 0

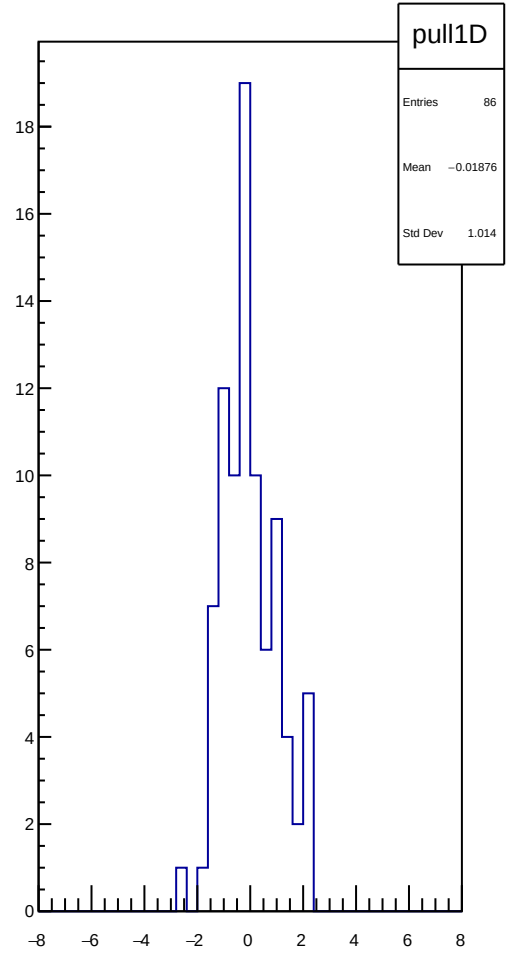

pull1D
Entries 86
Mean −0.01876
Std Dev 1.014

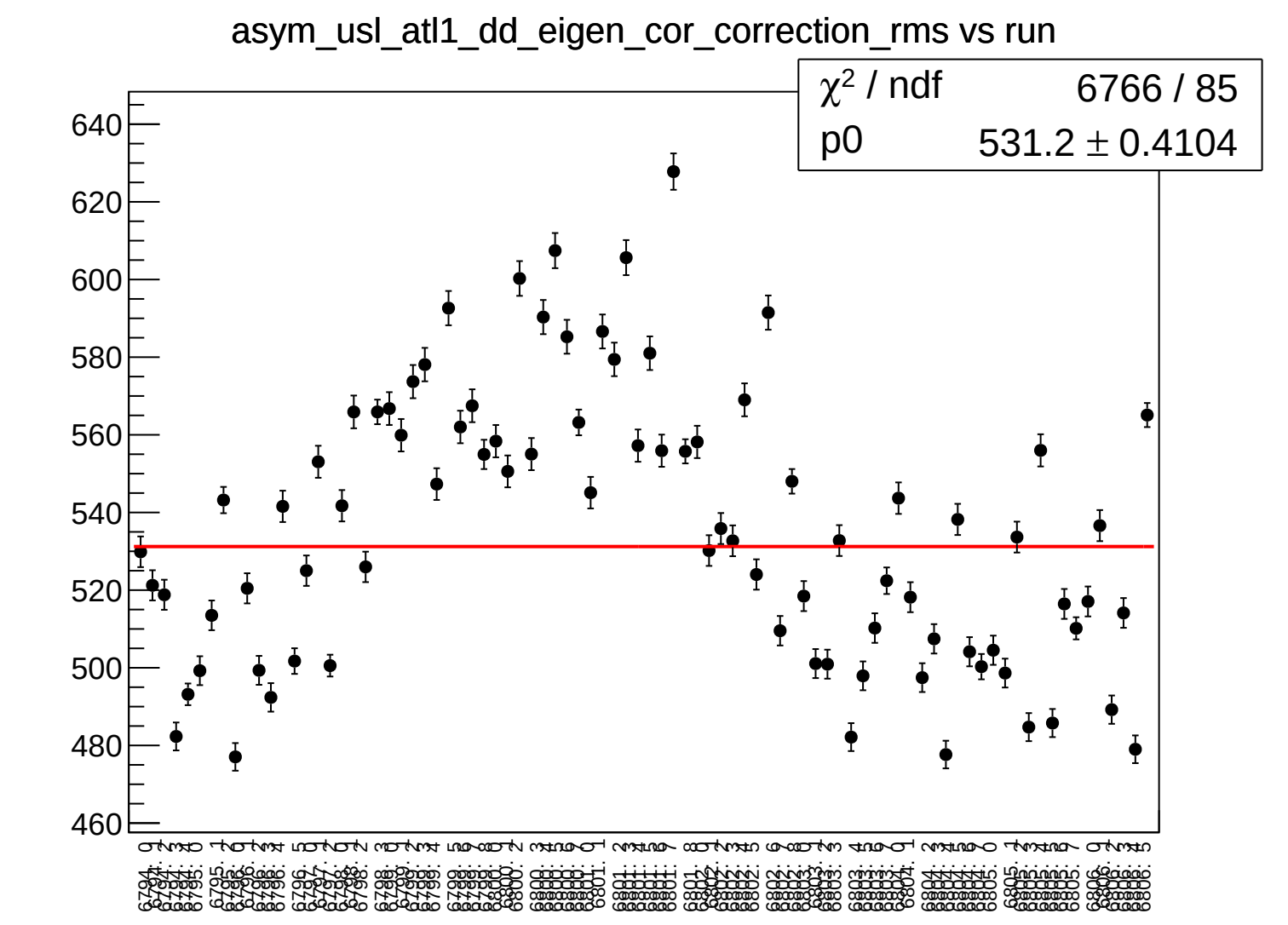

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 6766 / 85
p0 531.2 ± 0.4104
640
620
600
580
560
540
520
500
480
460

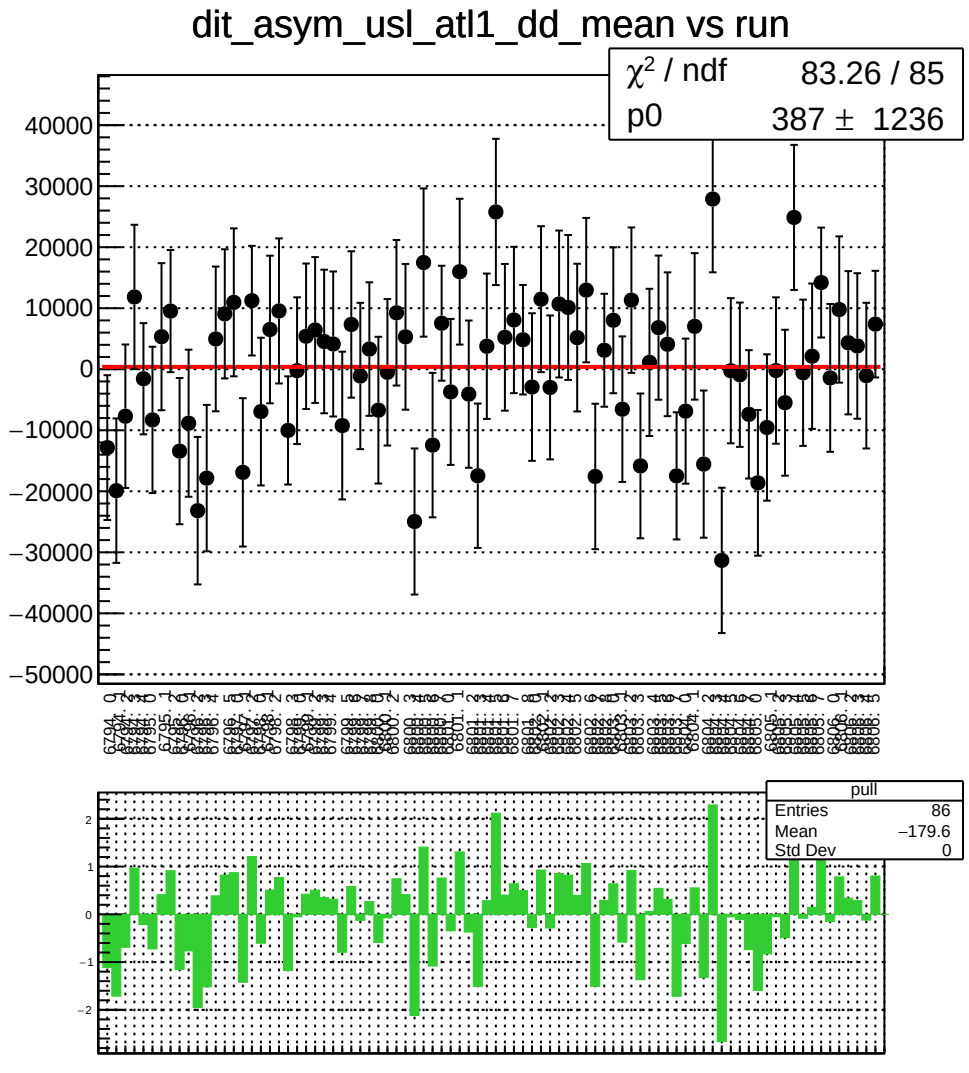

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.98 / 85
p0 423.4 ± 1236
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −181.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01342
Std Dev 0.9881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

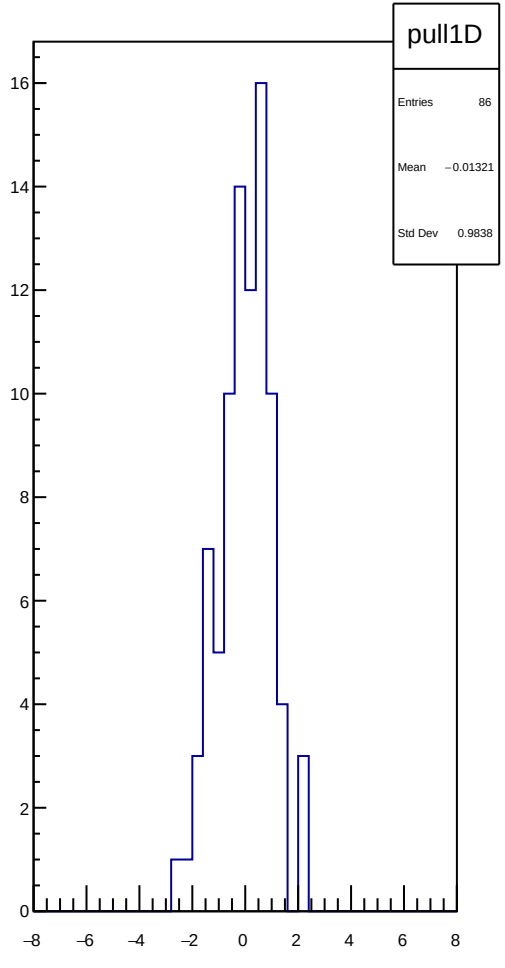

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 98.54 / 85
p0 1133 ± 0.8738
1160
1150
1140
1130
1120
1110
1100

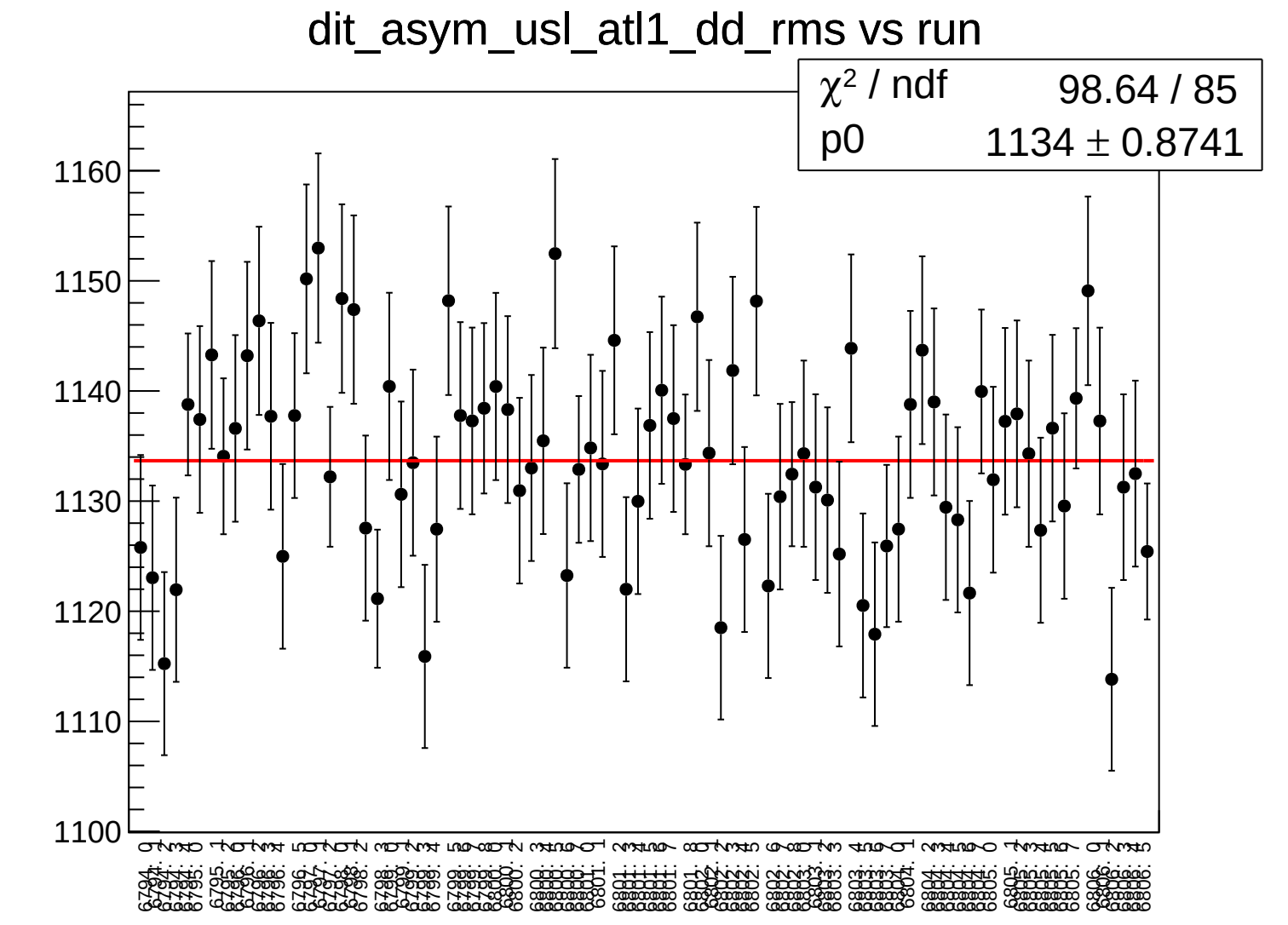

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.44 / 85
p0 −484.9 ± 580.4
pull
Entries 86
Mean −86.67
Std Dev 0

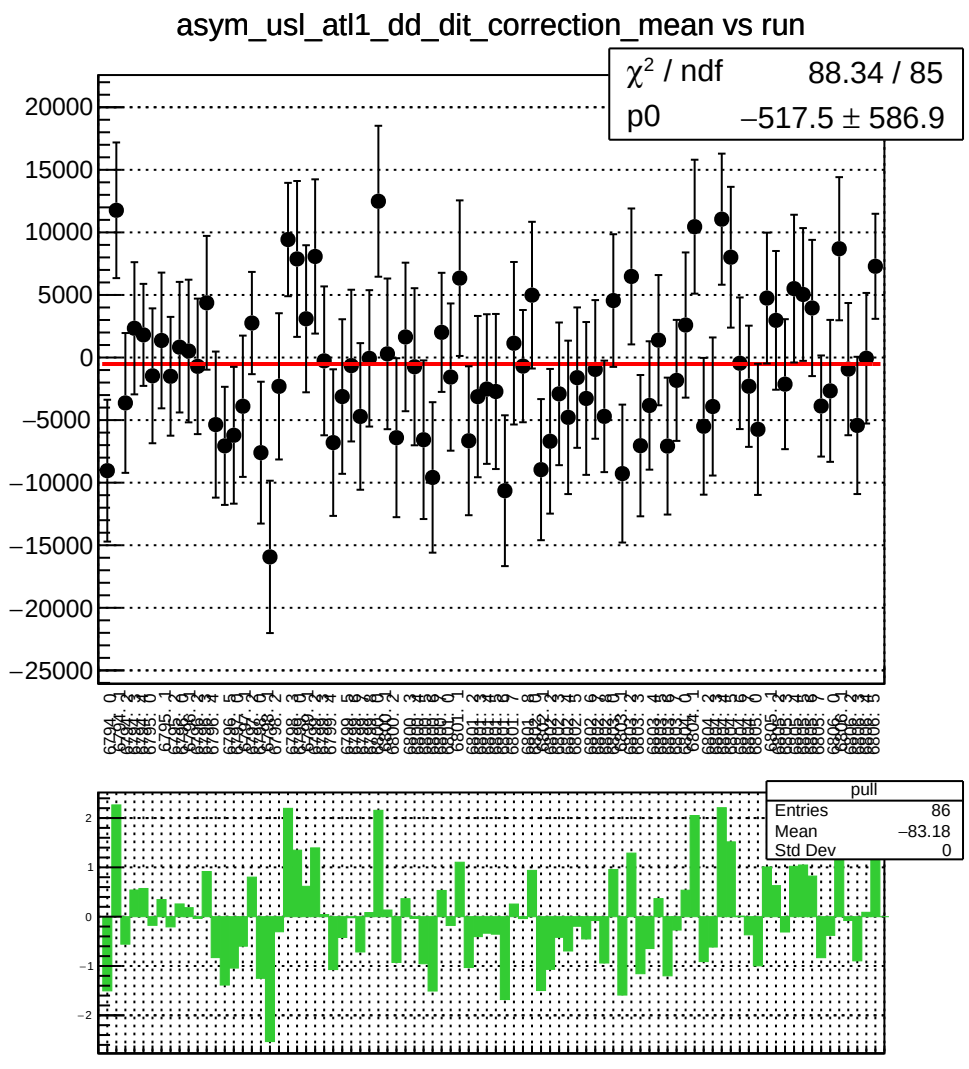

pull1D
Entries 86
Mean −0.01876
Std Dev 1.014

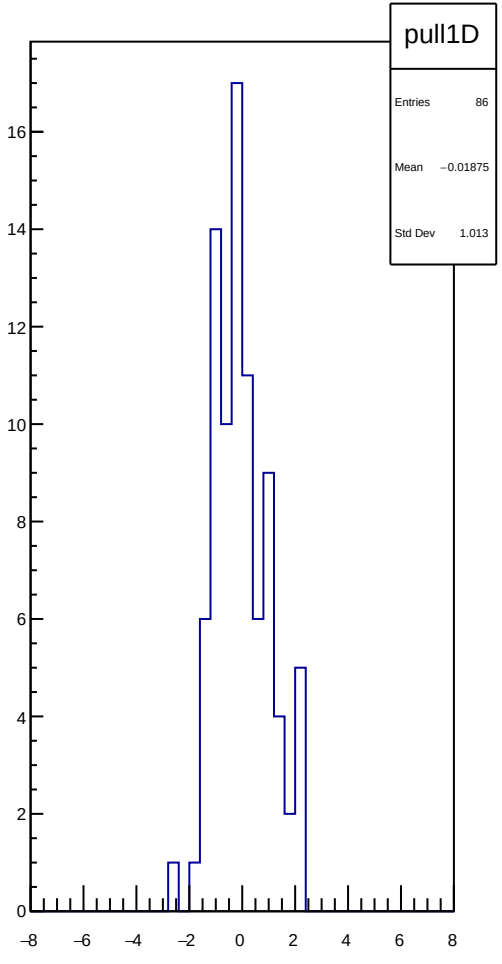

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 6766 / 85
p0 531.2 ± 0.4104
640
620
600
580
560
540
520
500
480
460

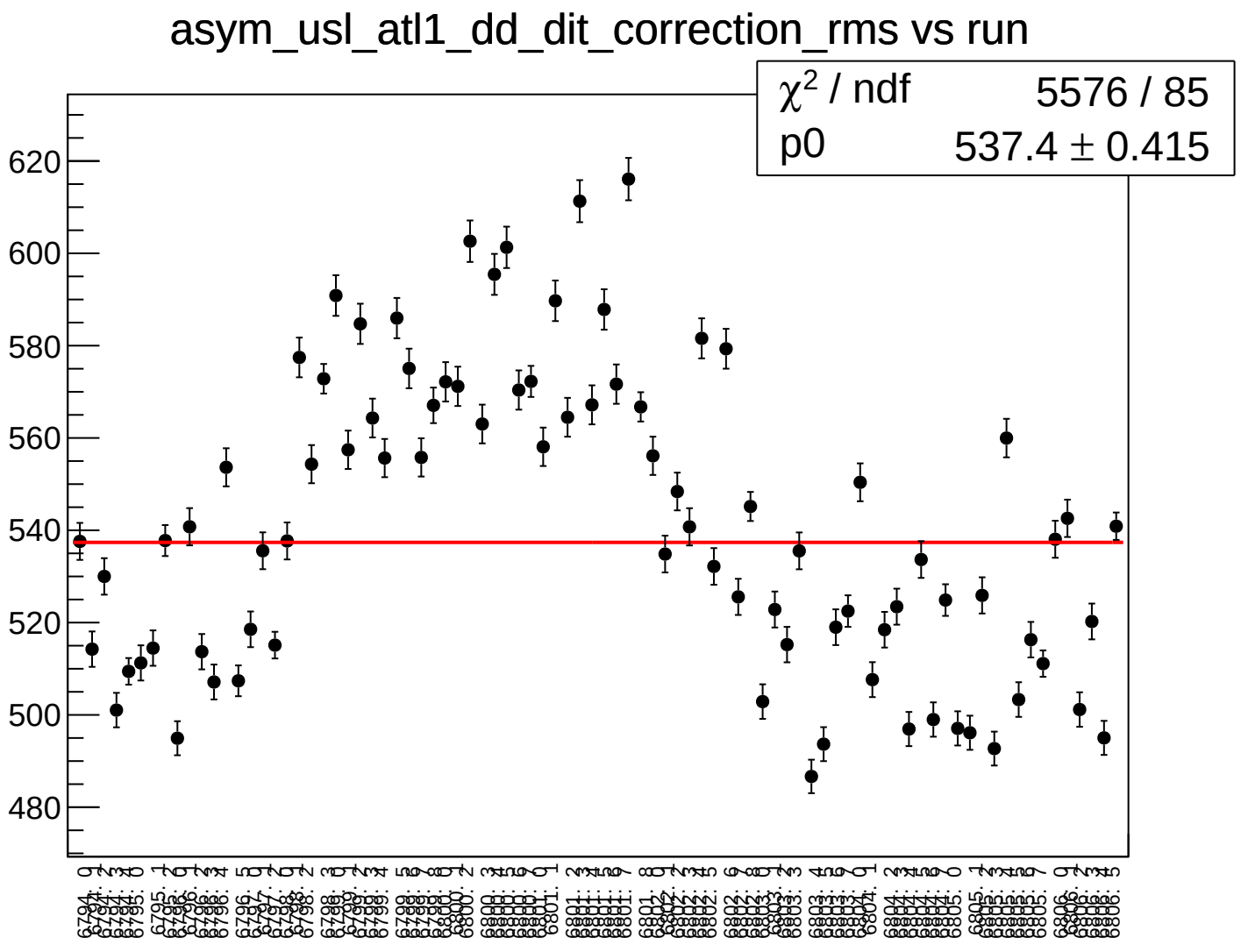

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.26 / 85
p0 387 ± 1236
pull
Entries 86
Mean −179.6
Std Dev 0

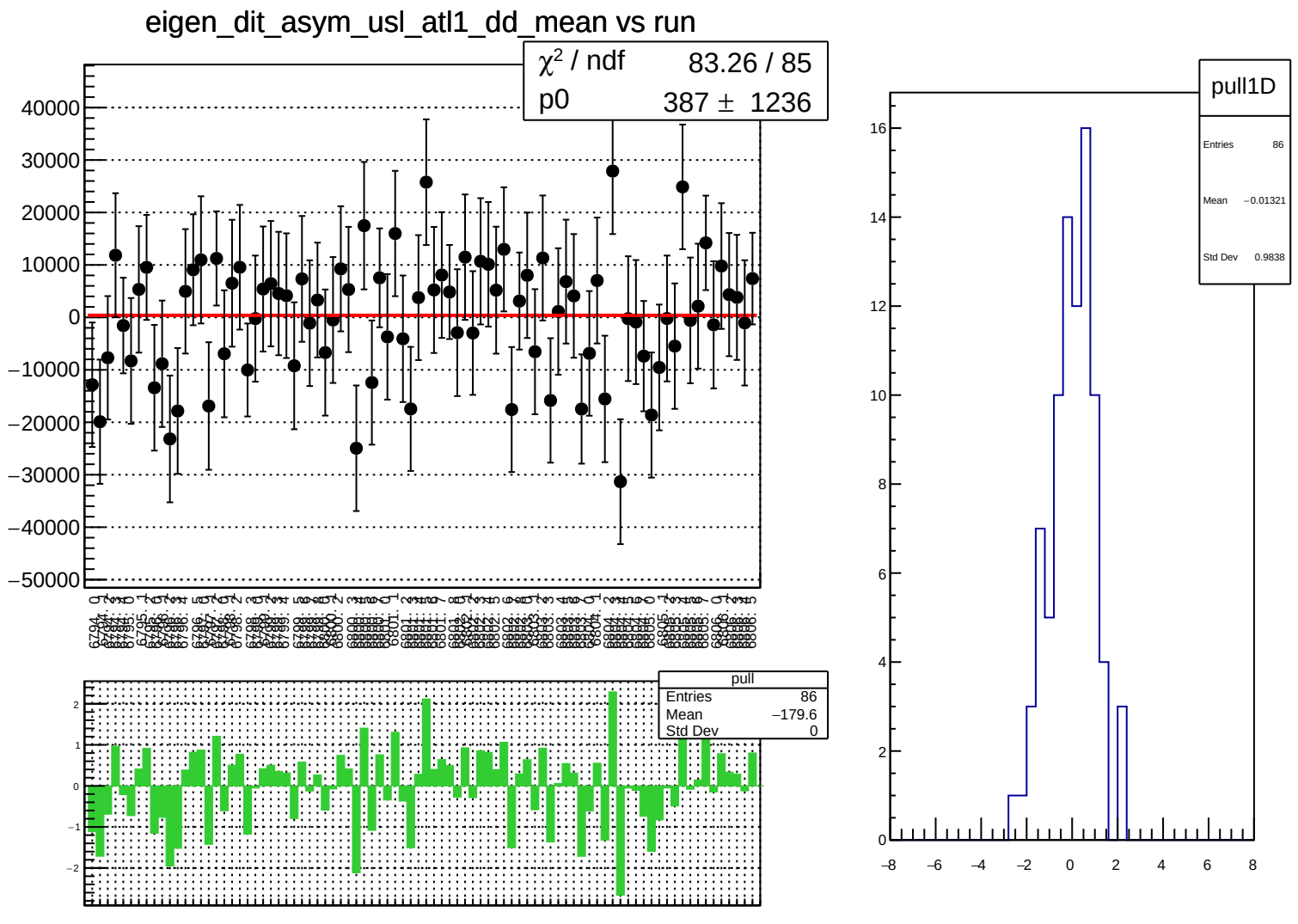

pull1D
Entries 86
Mean −0.01321
Std Dev 0.9838

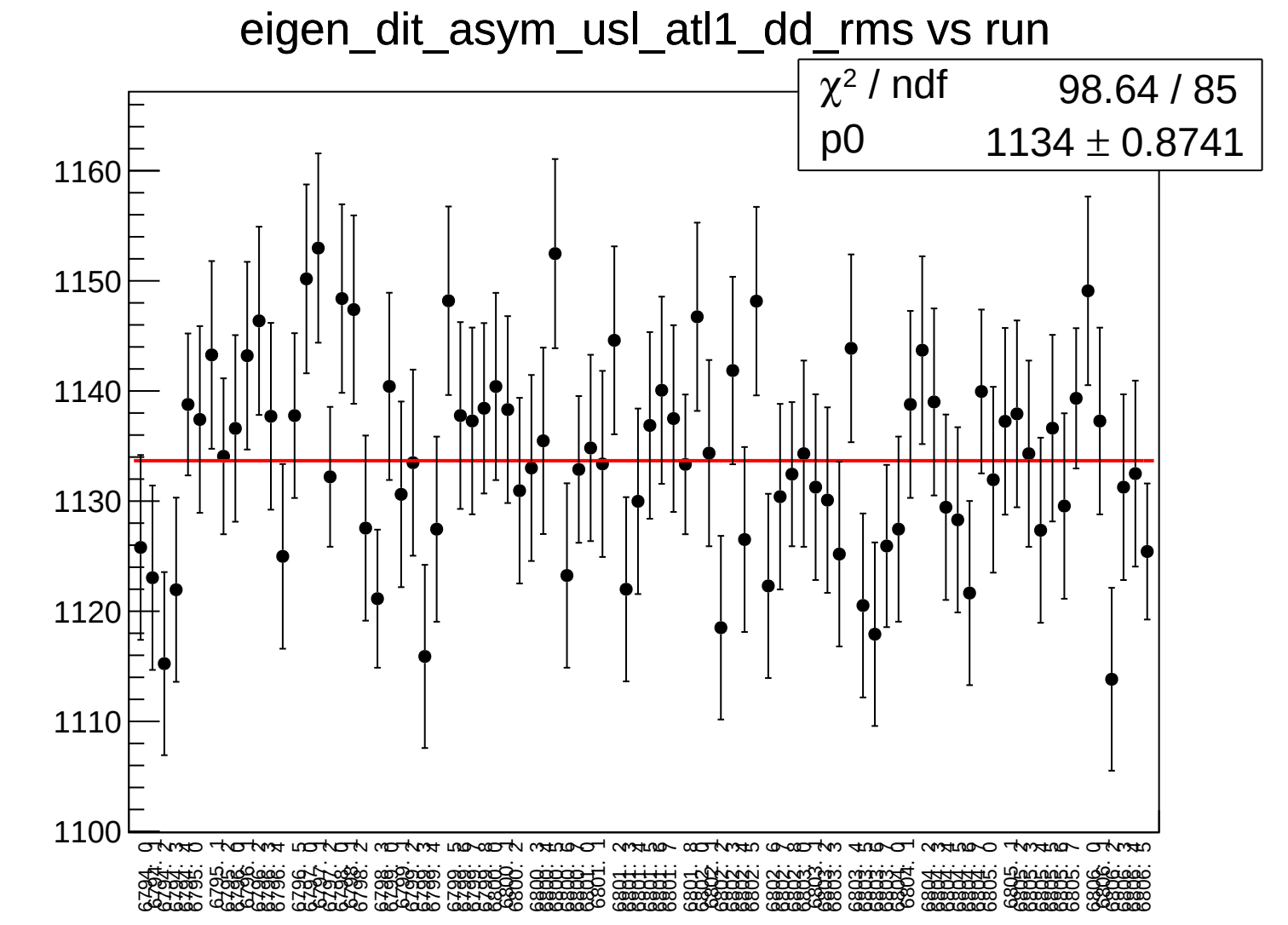

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 98.64 / 85
p0 1134 ± 0.8741
1160
1150
1140
1130
1120
1110
1100

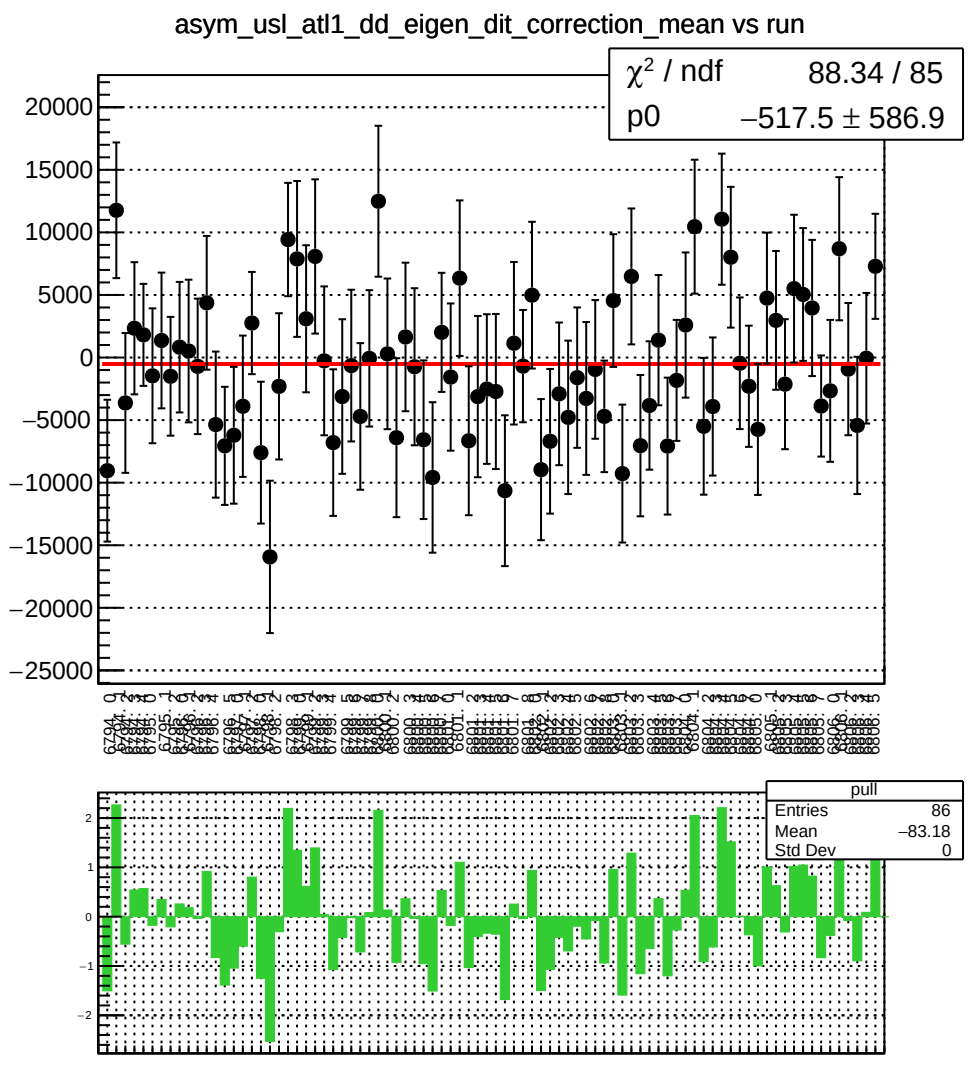

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 88.34 / 85
p0 −517.5 ± 586.9
pull
Entries 86
Mean −83.18
Std Dev 0

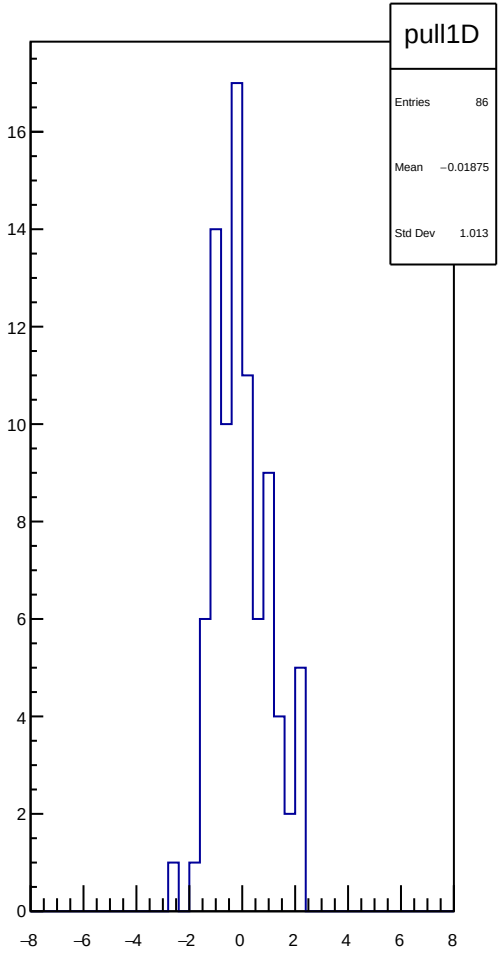

pull1D
Entries 86
Mean −0.01875
Std Dev 1.013

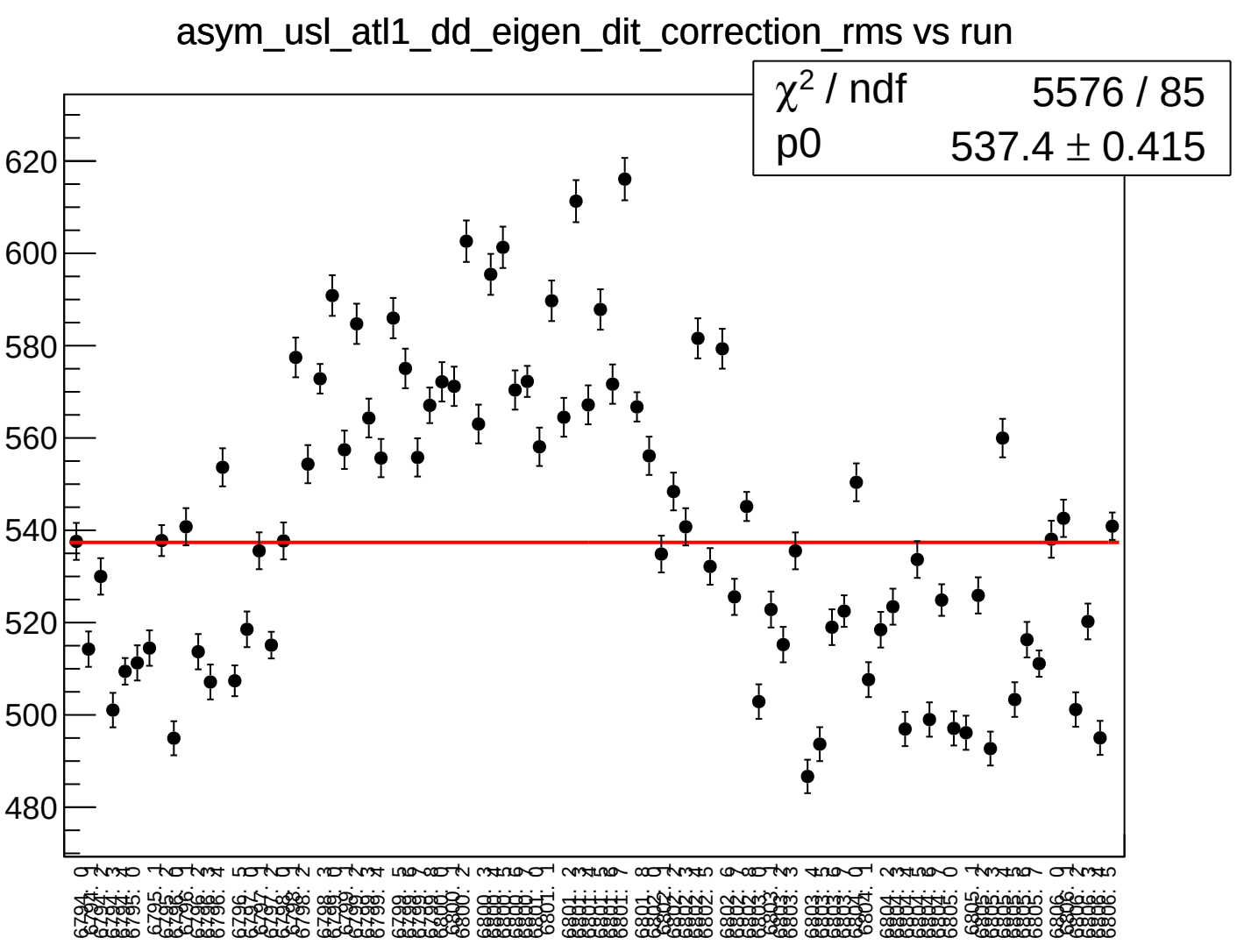

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 5576 / 85
p0 537.4 ± 0.415
620
600
580
560
540
520
500
480

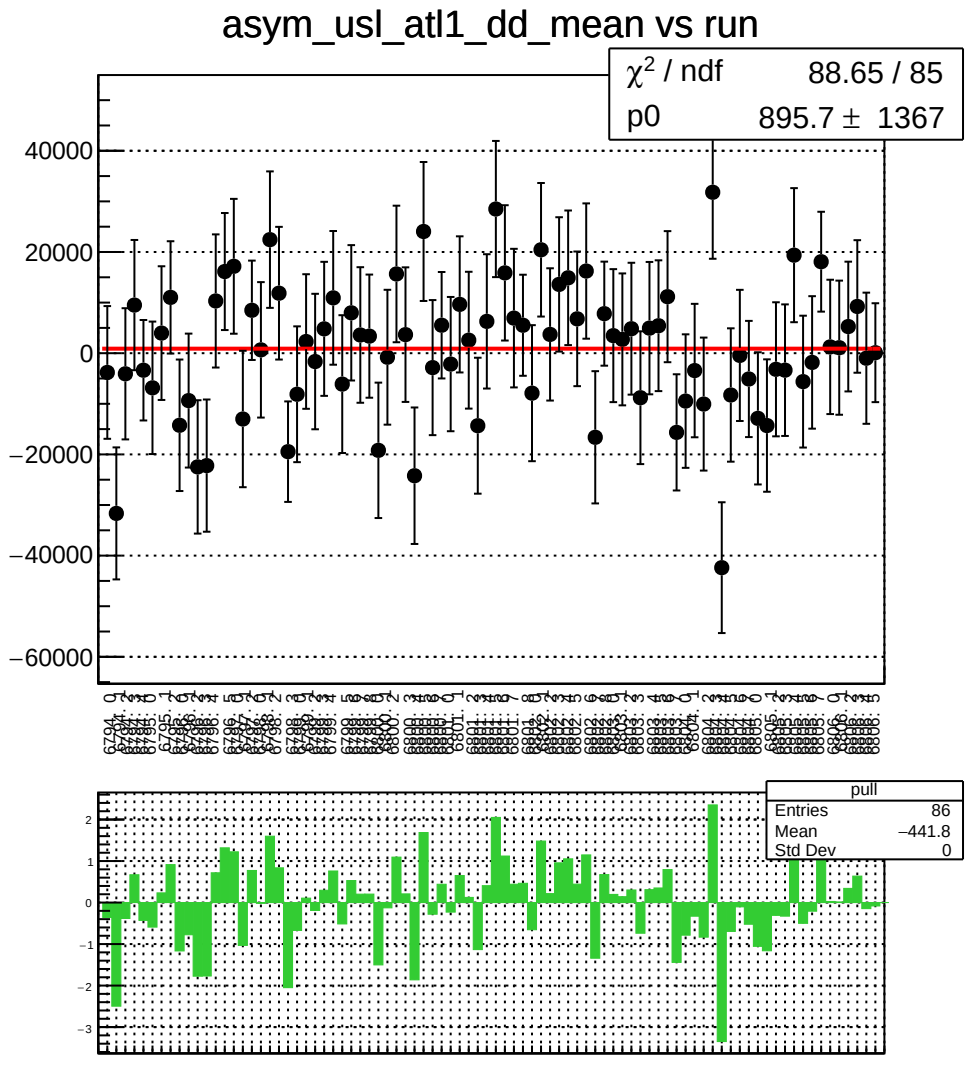

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 83.26 / 85
p0 387 ± 1236
pull
Entries 86
Mean −179.6
Std Dev 0
pull1D
Entries 86
Mean −0.01321
Std Dev 0.9838

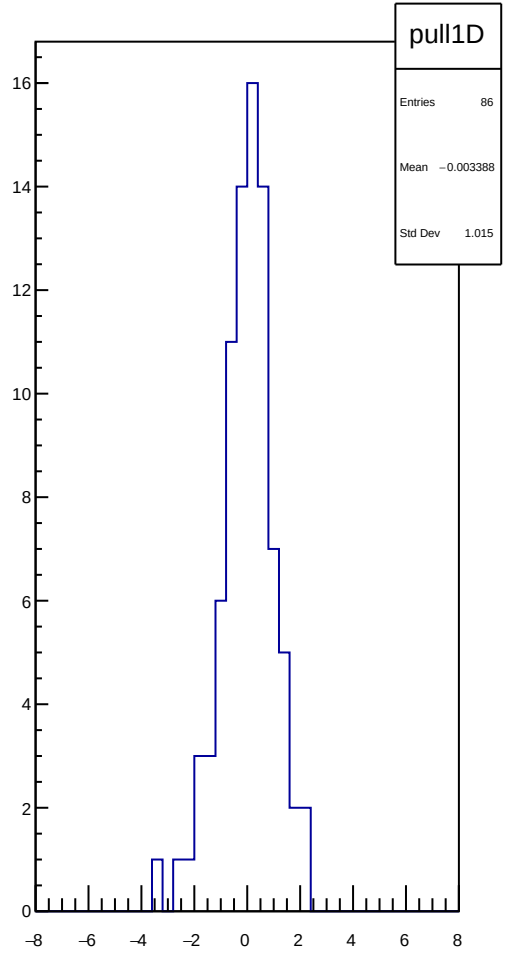

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 98.64 / 85
p0 1134 ± 0.8741
1160
1150
1140
1130
1120
1110
1100

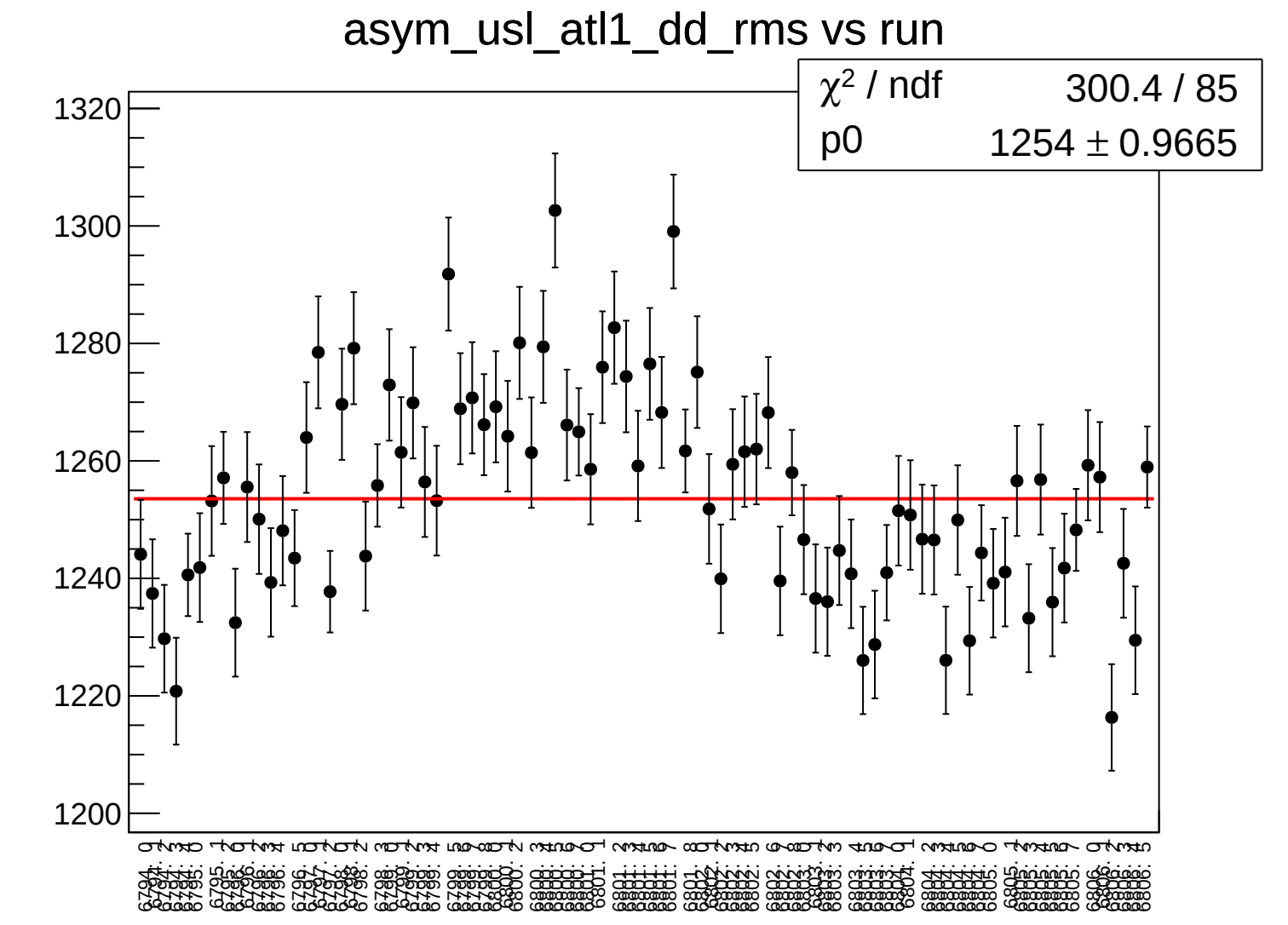

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.34 / 85
p0 −517.5 ± 586.9
pull
Entries 86
Mean −83.18
Std Dev 0

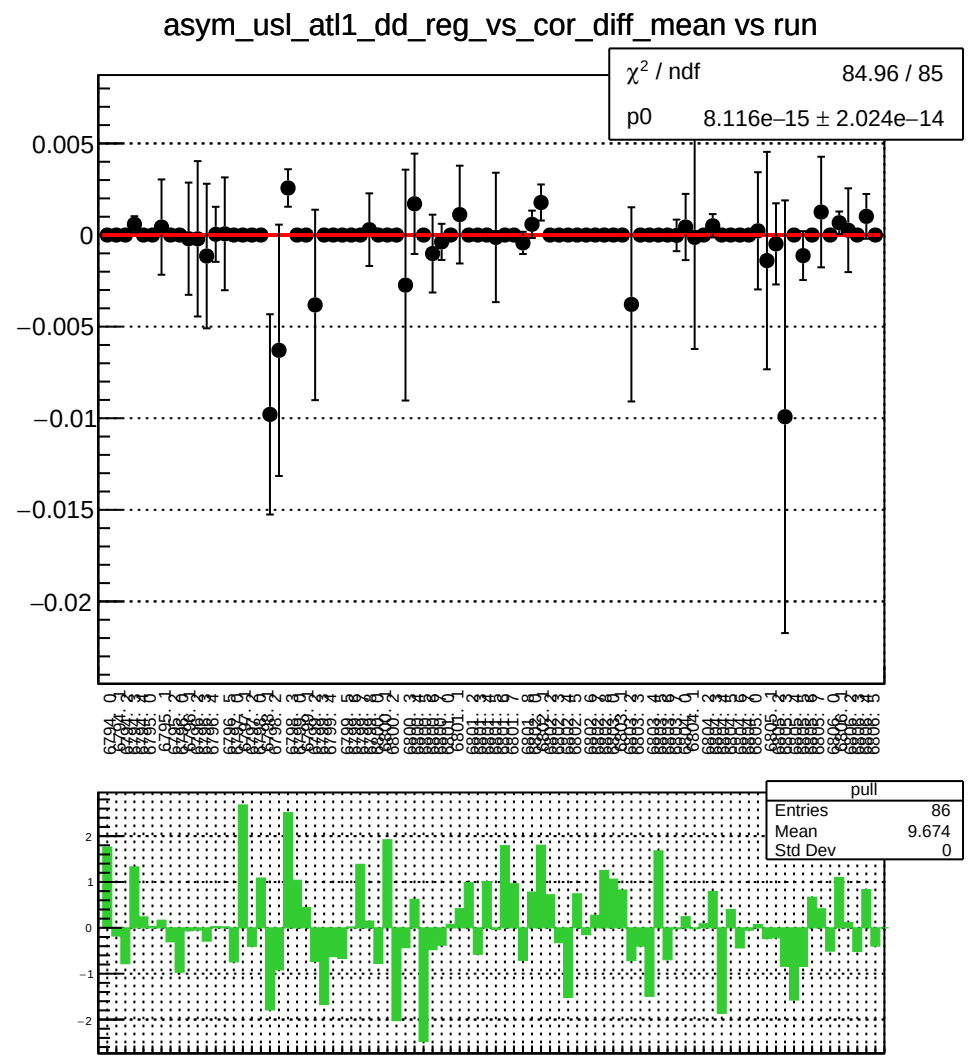

pull1D
Entries 86
Mean −0.01875
Std Dev 1.013

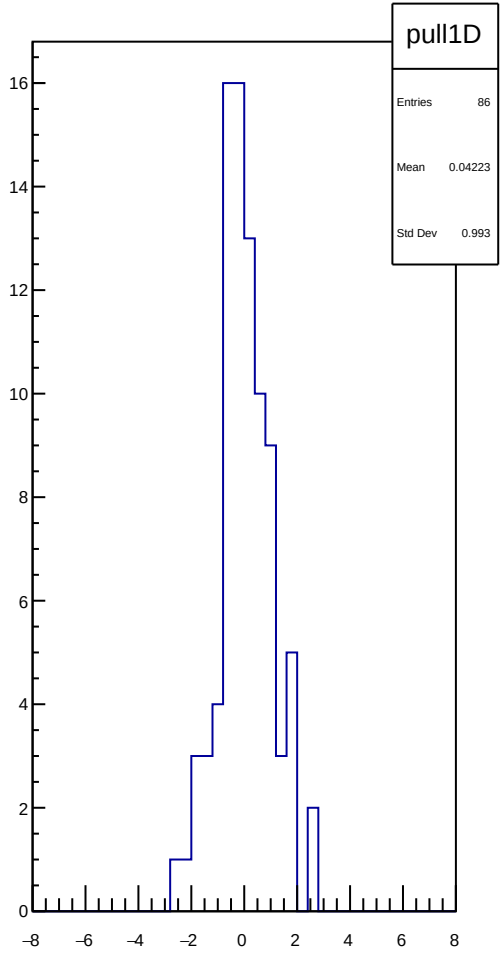

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5576 / 85
p0 537.4 ± 0.415
620
600
580
560
540
520
500
480


asym_usl_atl1_dd_mean vs run
χ² / ndf 88.65 / 85
p0 895.7 ± 1367
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −441.8
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.003388
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_dd_rms vs run
χ² / ndf 300.4 / 85
p0 1254 ± 0.9665
1320
1300
1280
1260
1240
1220
1200


asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.96 / 85
p0 8.116e−15 ± 2.024e−14
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 9.674
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.04223
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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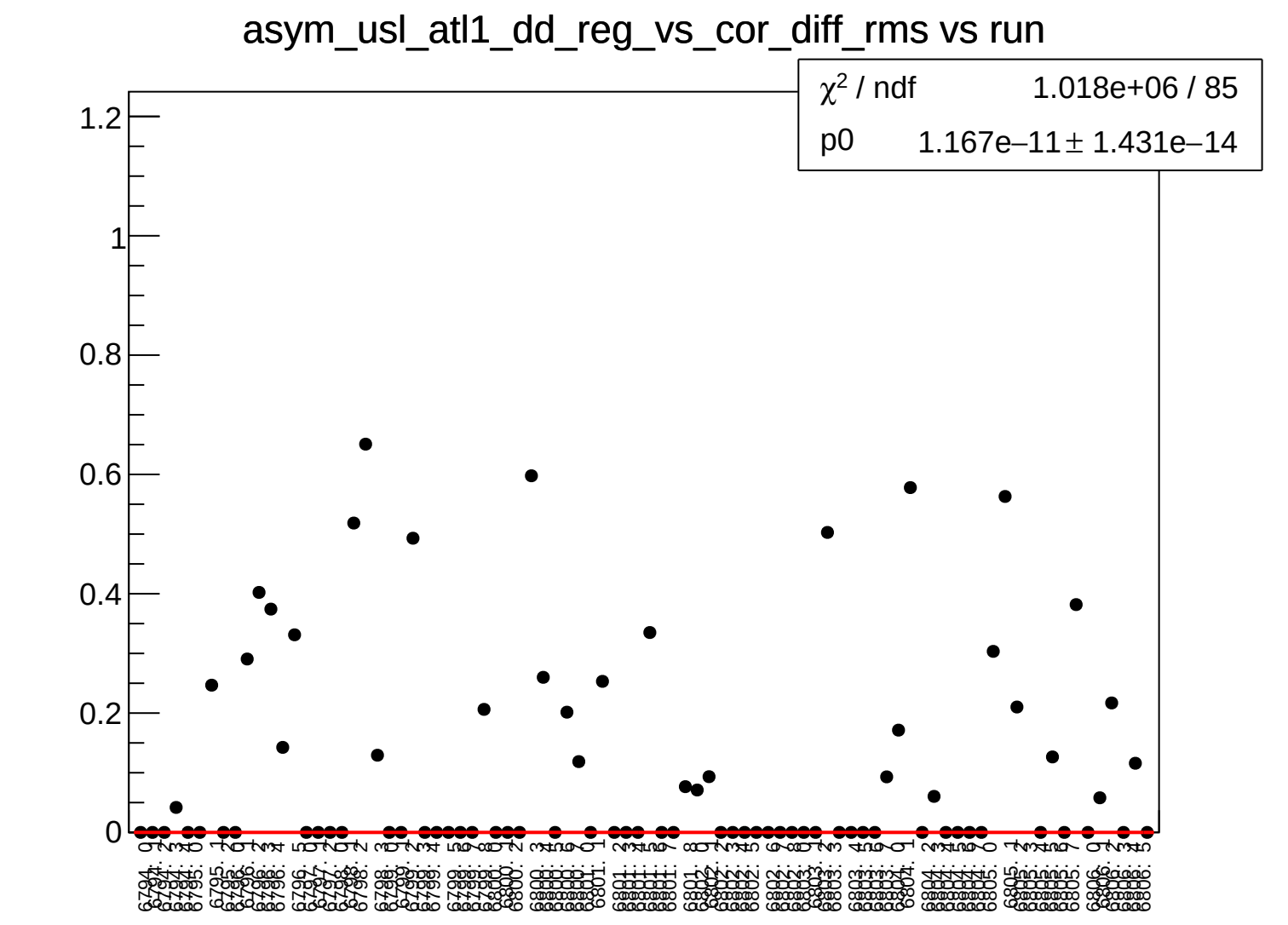
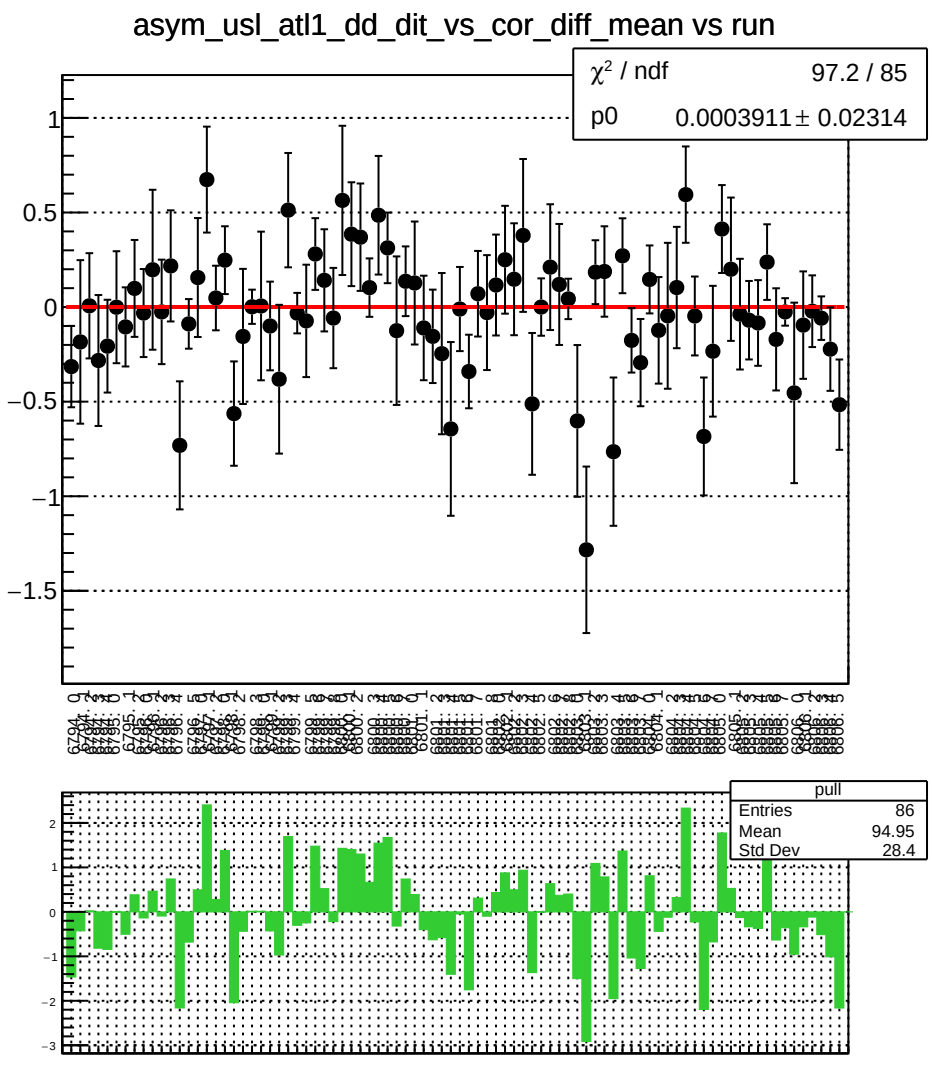
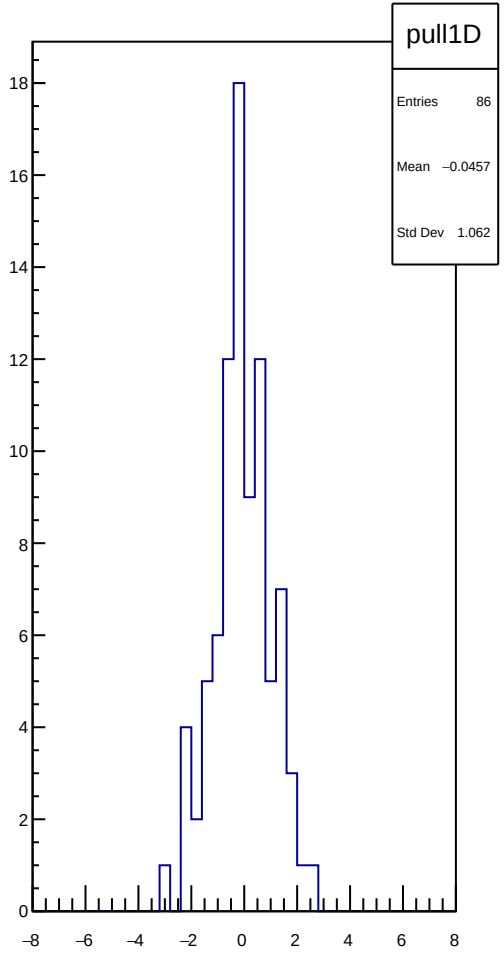
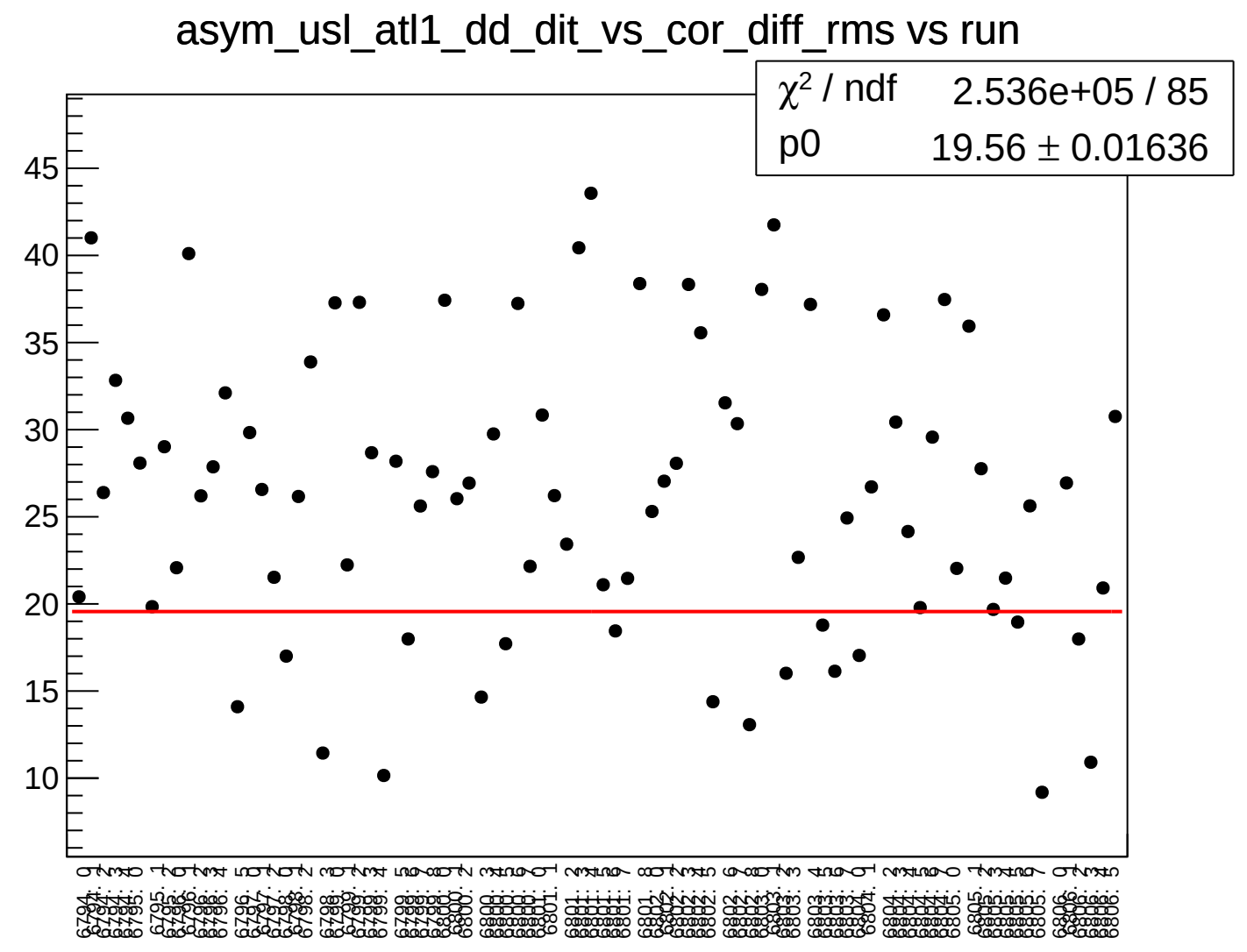
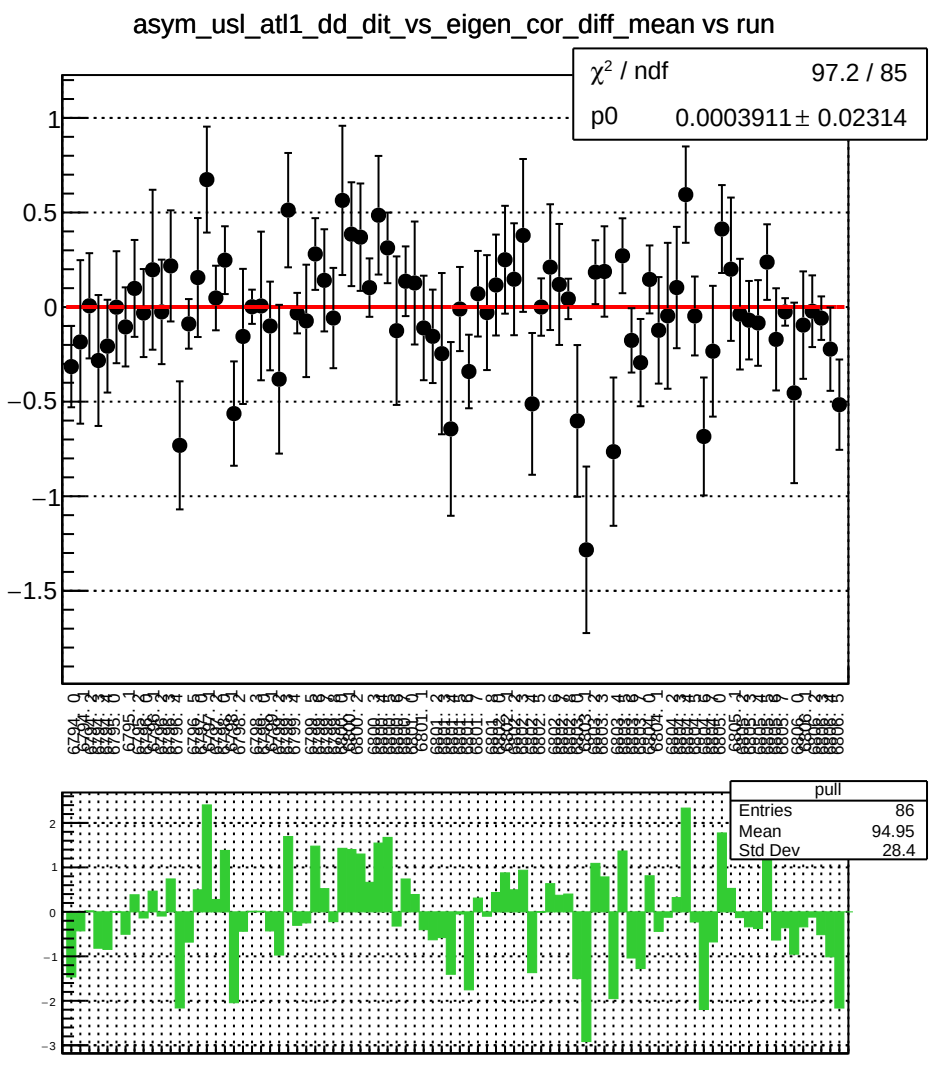
2
4
6
8

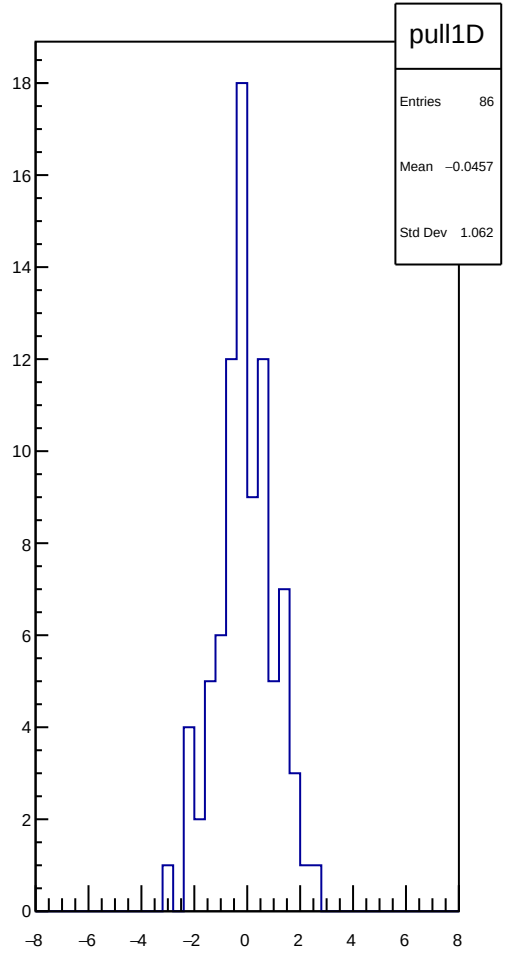

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.018e+06 / 85
p0 1.167e−11 ± 1.431e−14
1.2
1
0.8
0.6
0.4
0.2
0

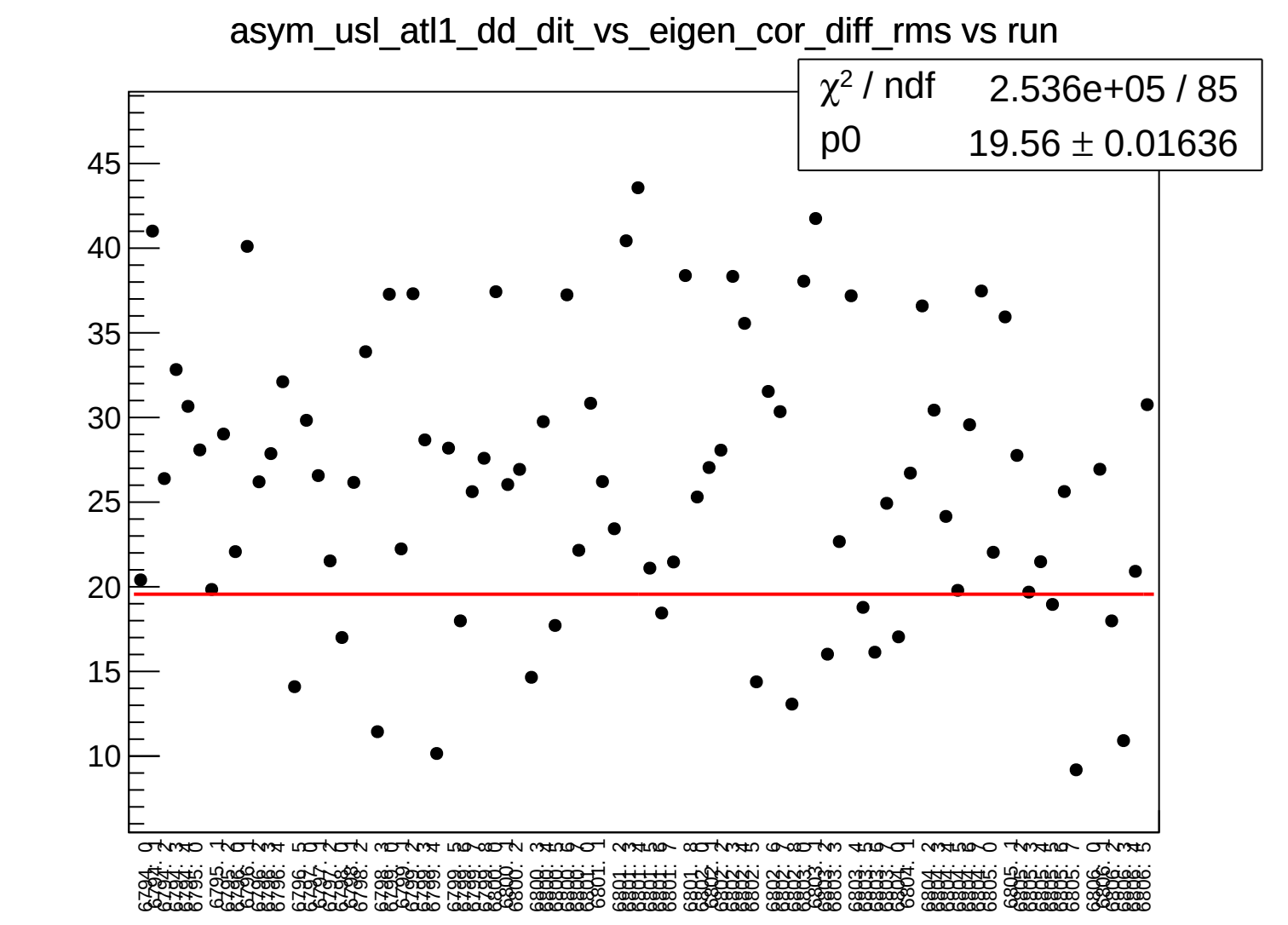

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.2 / 85
p0 0.0003911 ± 0.02314
pull
Entries 86
Mean 94.95
Std Dev 28.4

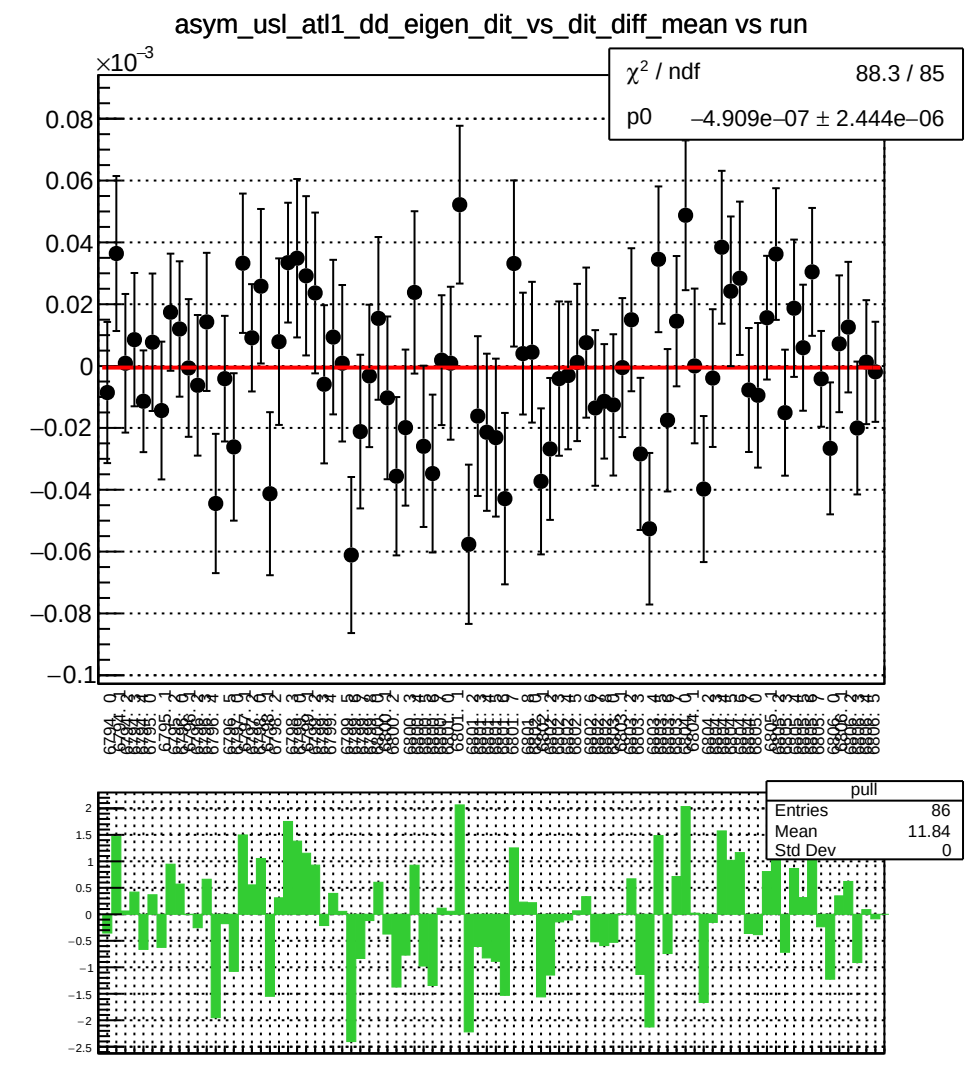

pull1D
Entries 86
Mean −0.0457
Std Dev 1.062

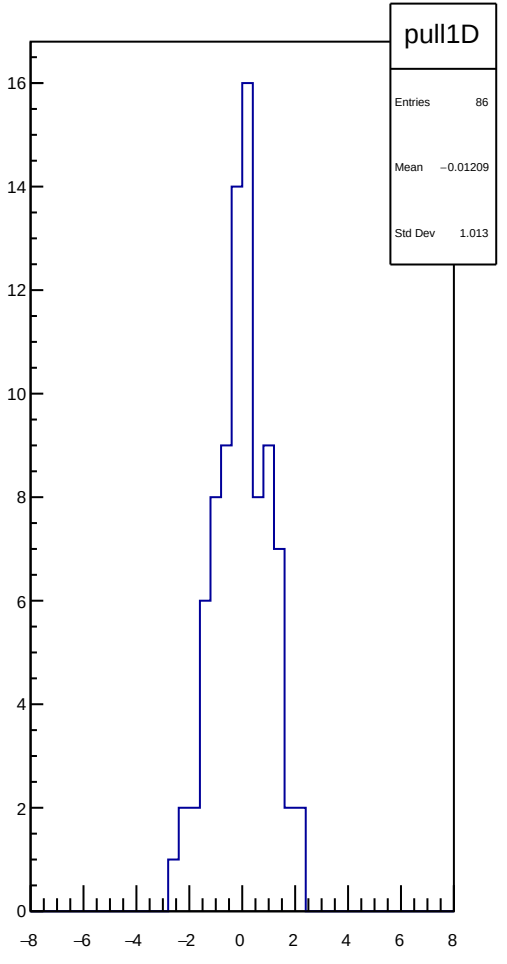

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.536e+05 / 85
p0 19.56 ± 0.01636
45
40
35
30
25
20
15
10

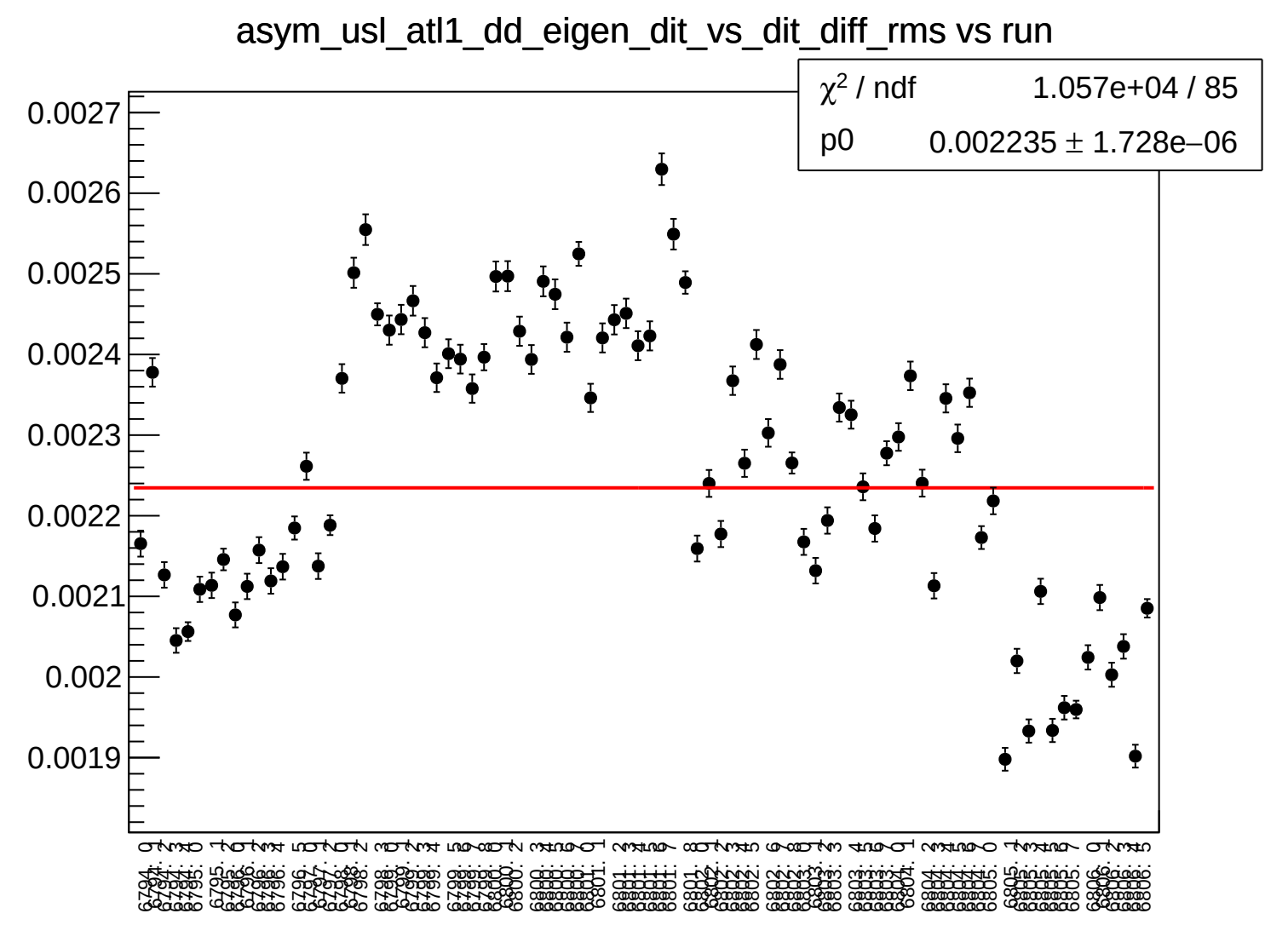

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.2 / 85
p0 0.0003911 ± 0.02314
pull
Entries 86
Mean 94.95
Std Dev 28.4

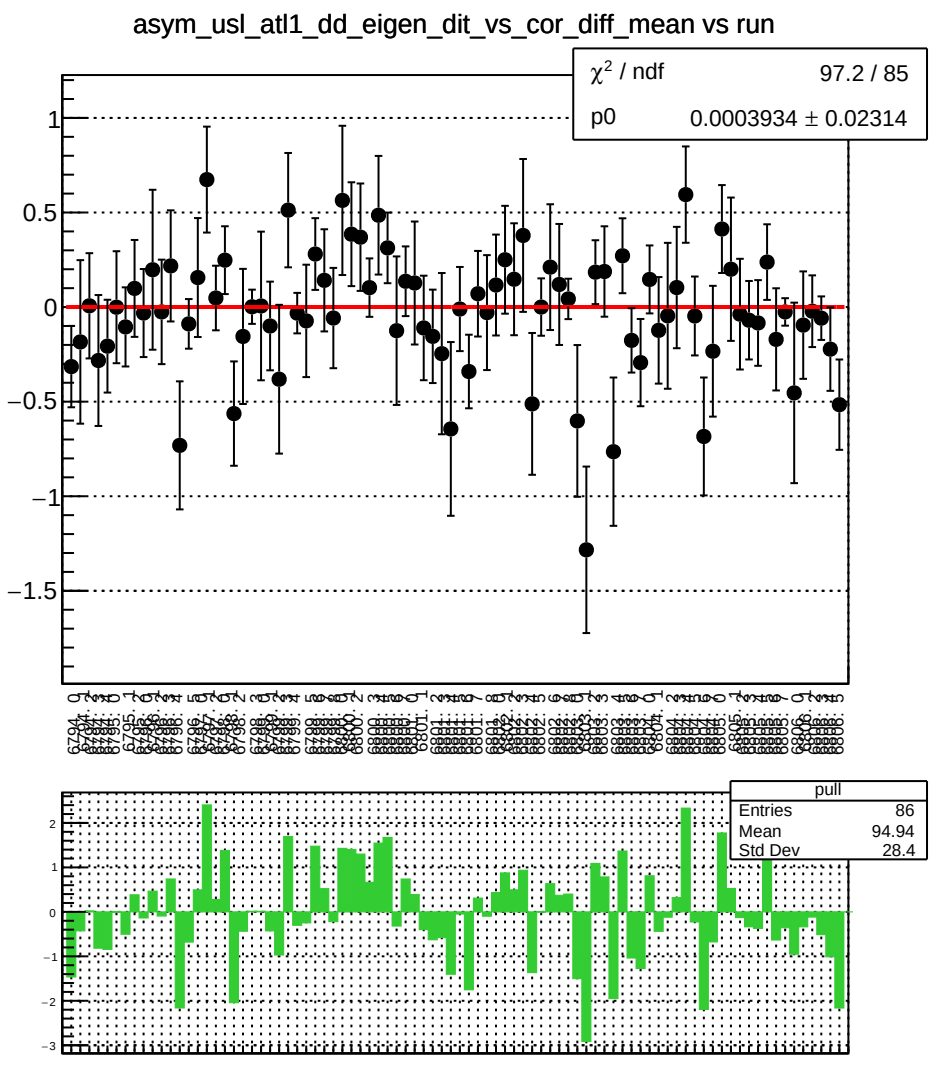

pull1D
Entries 86
Mean −0.0457
Std Dev 1.062

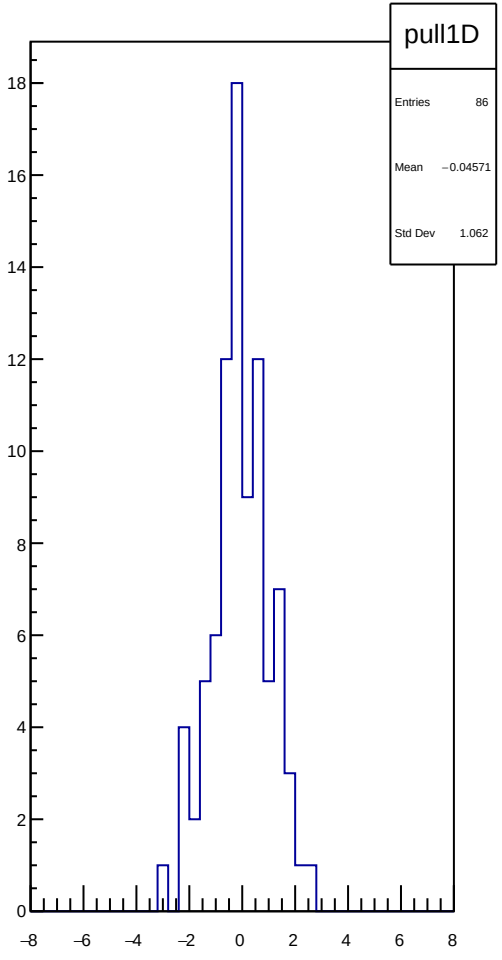

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.536e+05 / 85
p0 19.56 ± 0.01636
45
40
35
30
25
20
15
10

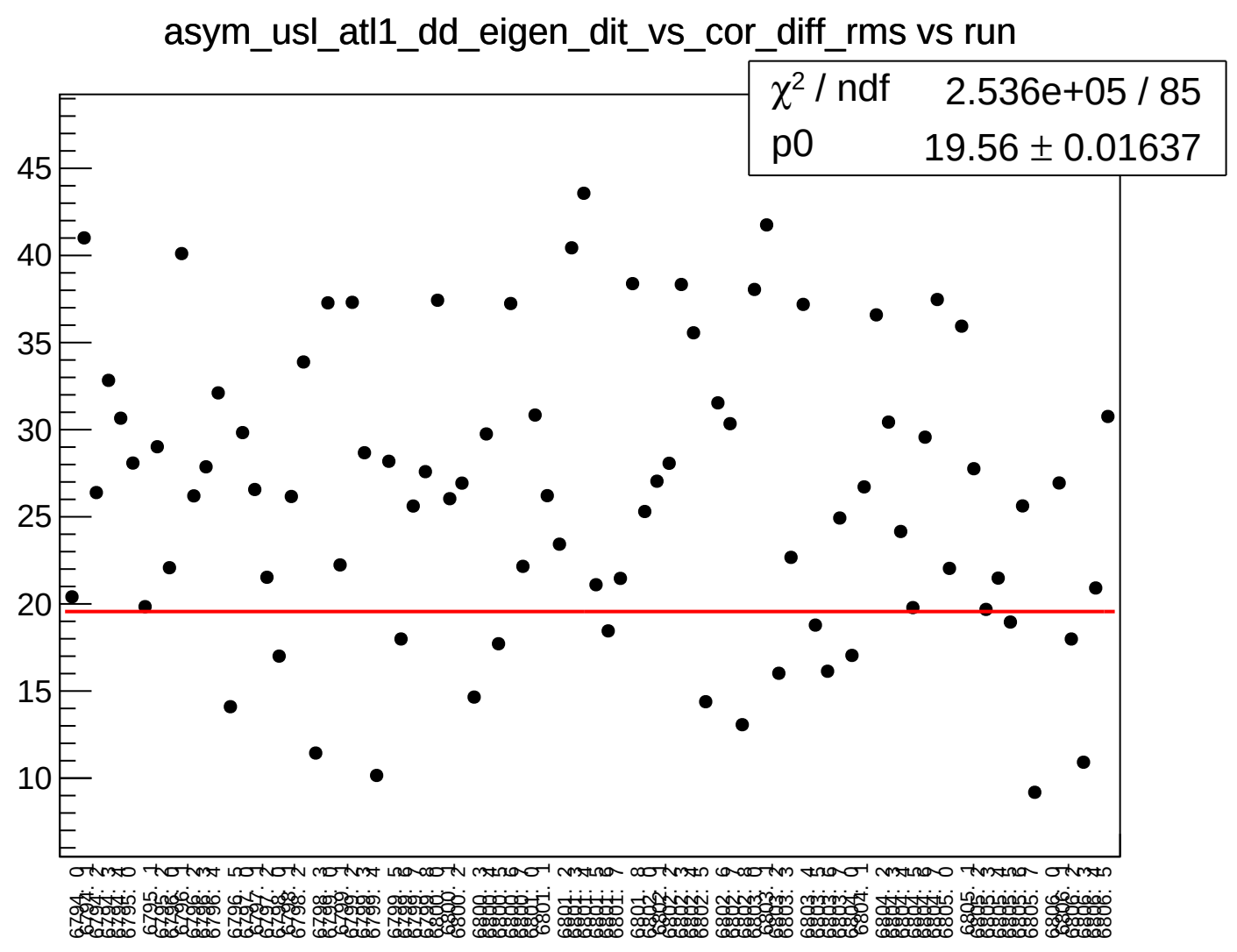

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.3 / 85
p0 −4.909e−07 ± 2.444e−06
pull
Entries 86
Mean 11.84
Std Dev 0

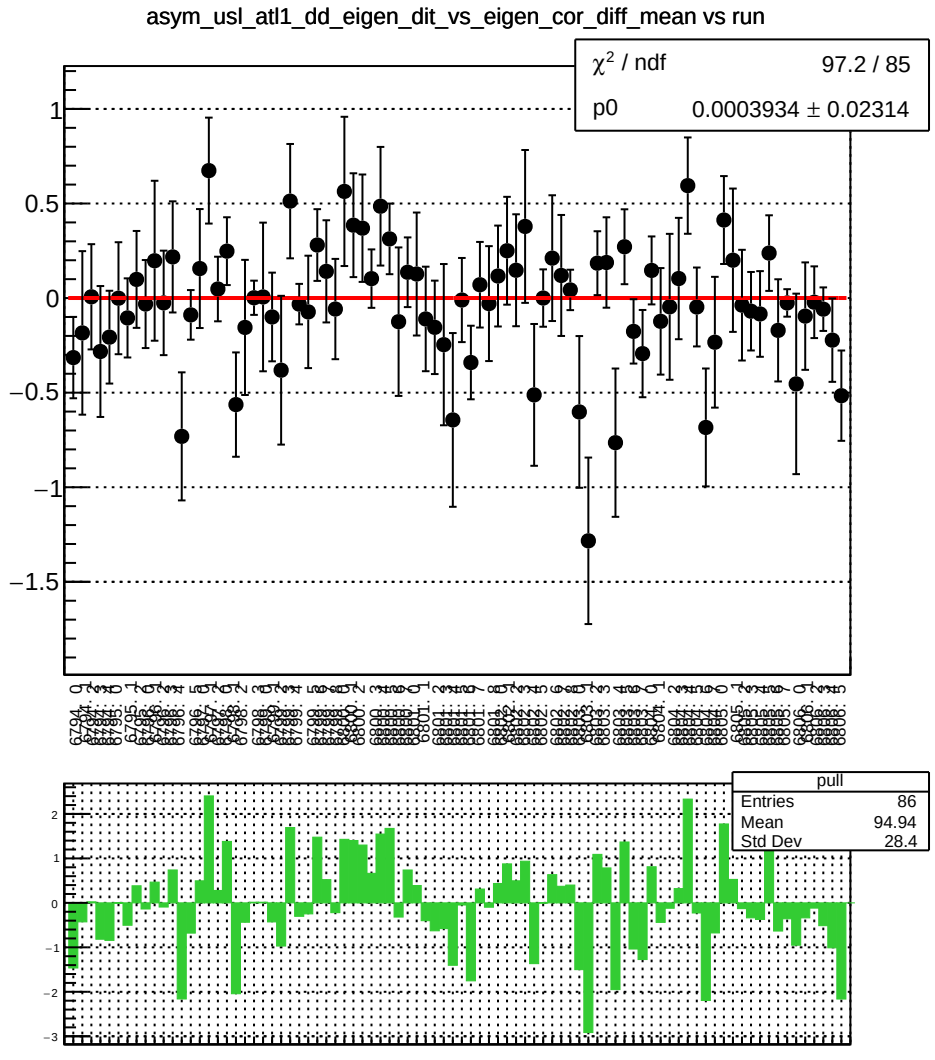

pull1D
Entries 86
Mean −0.01209
Std Dev 1.013

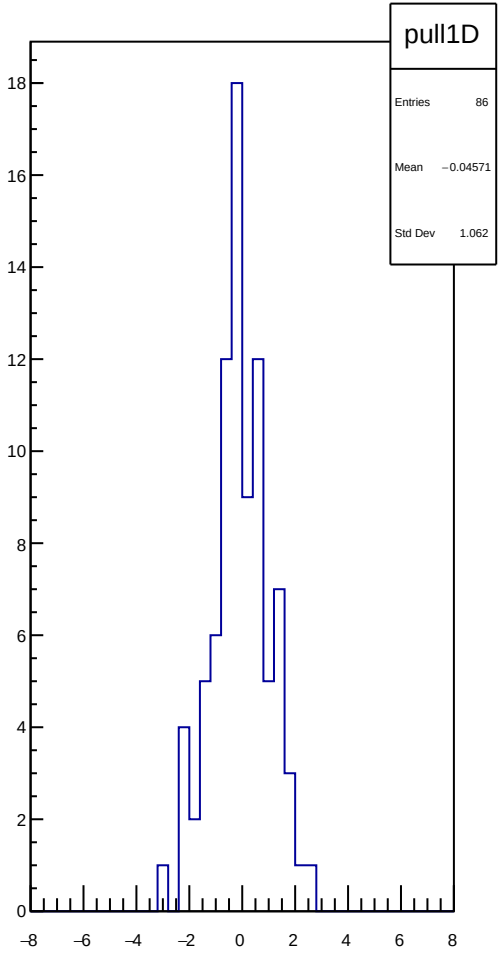

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.057e+04 / 85
p0 0.002235 ± 1.728e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

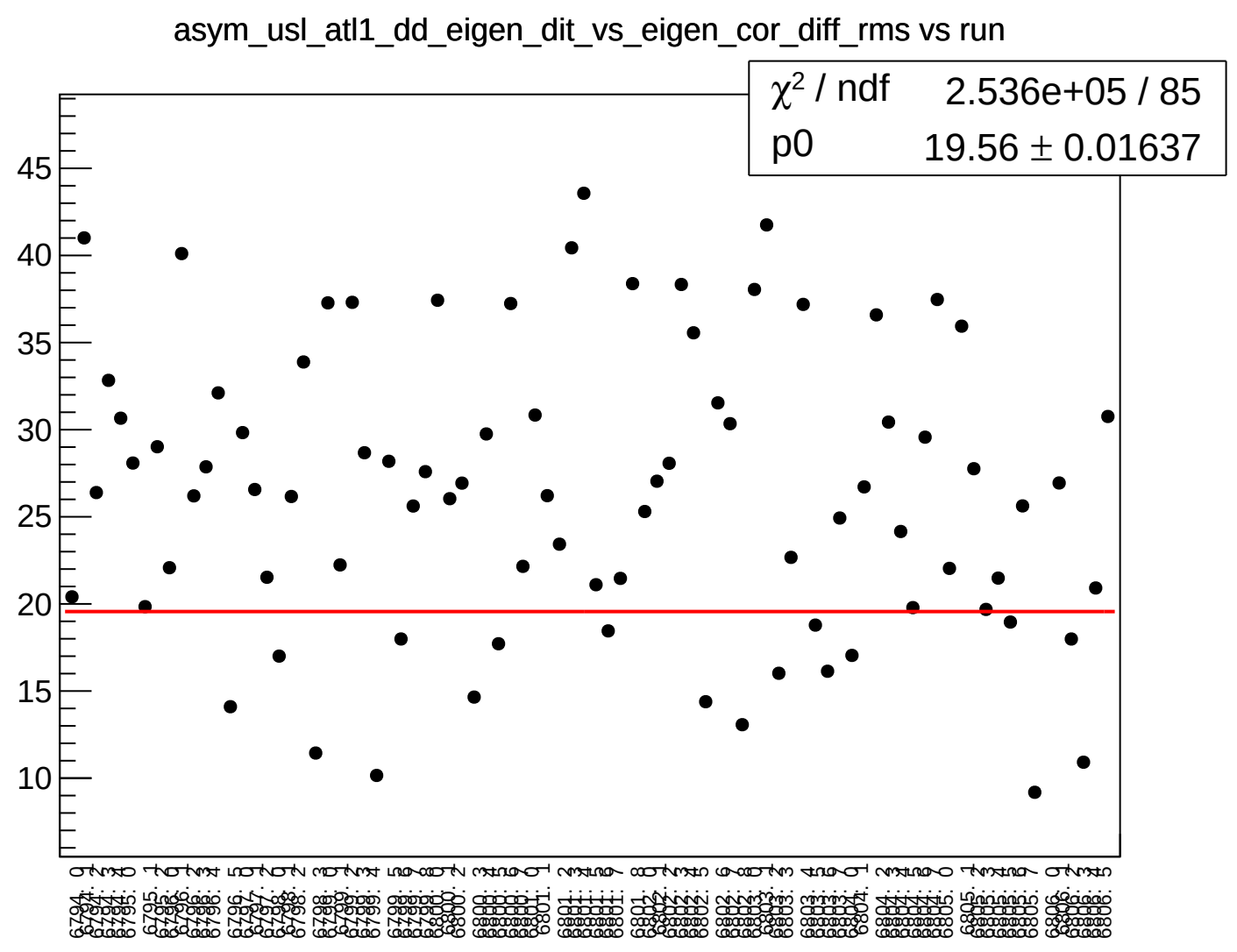

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.2 / 85
p0 0.0003934 ± 0.02314
pull
Entries 86
Mean 94.94
Std Dev 28.4

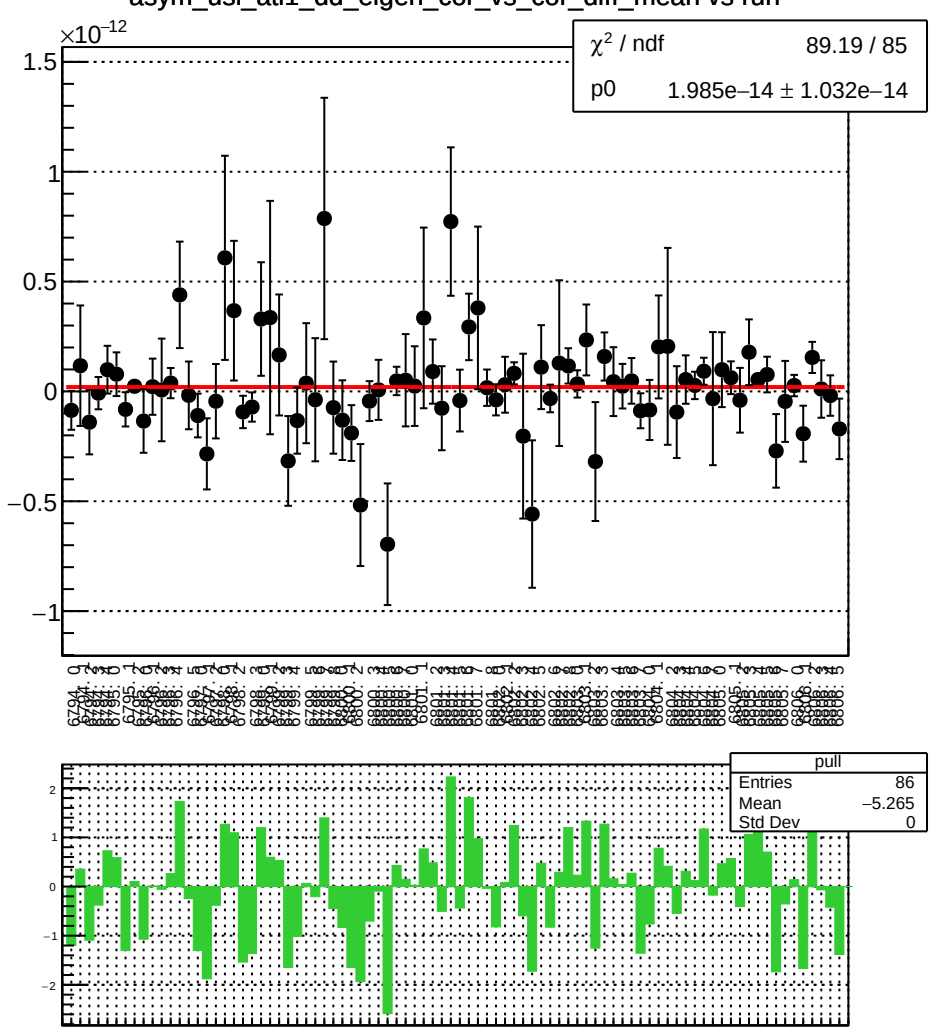

pull1D
Entries 86
Mean −0.04571
Std Dev 1.062

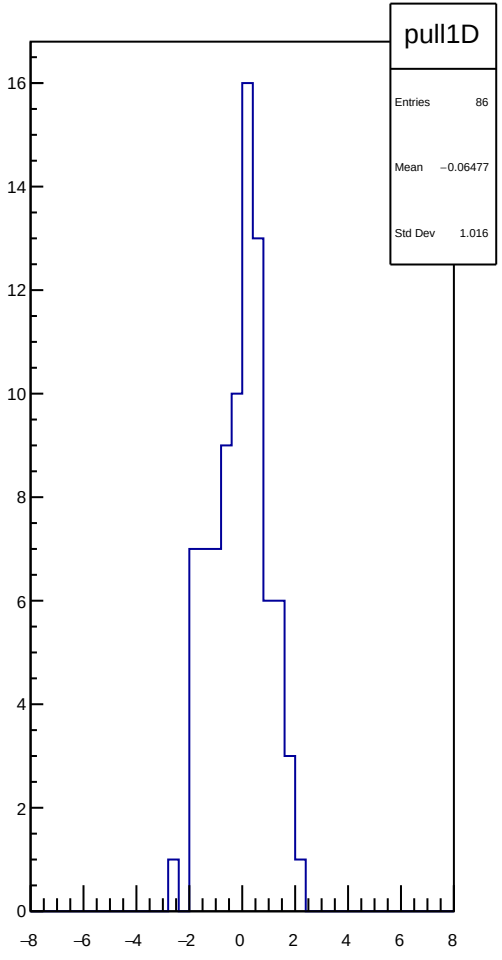

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.536e+05 / 85
p0 19.56 ± 0.01637
45
40
35
30
25
20
15
10

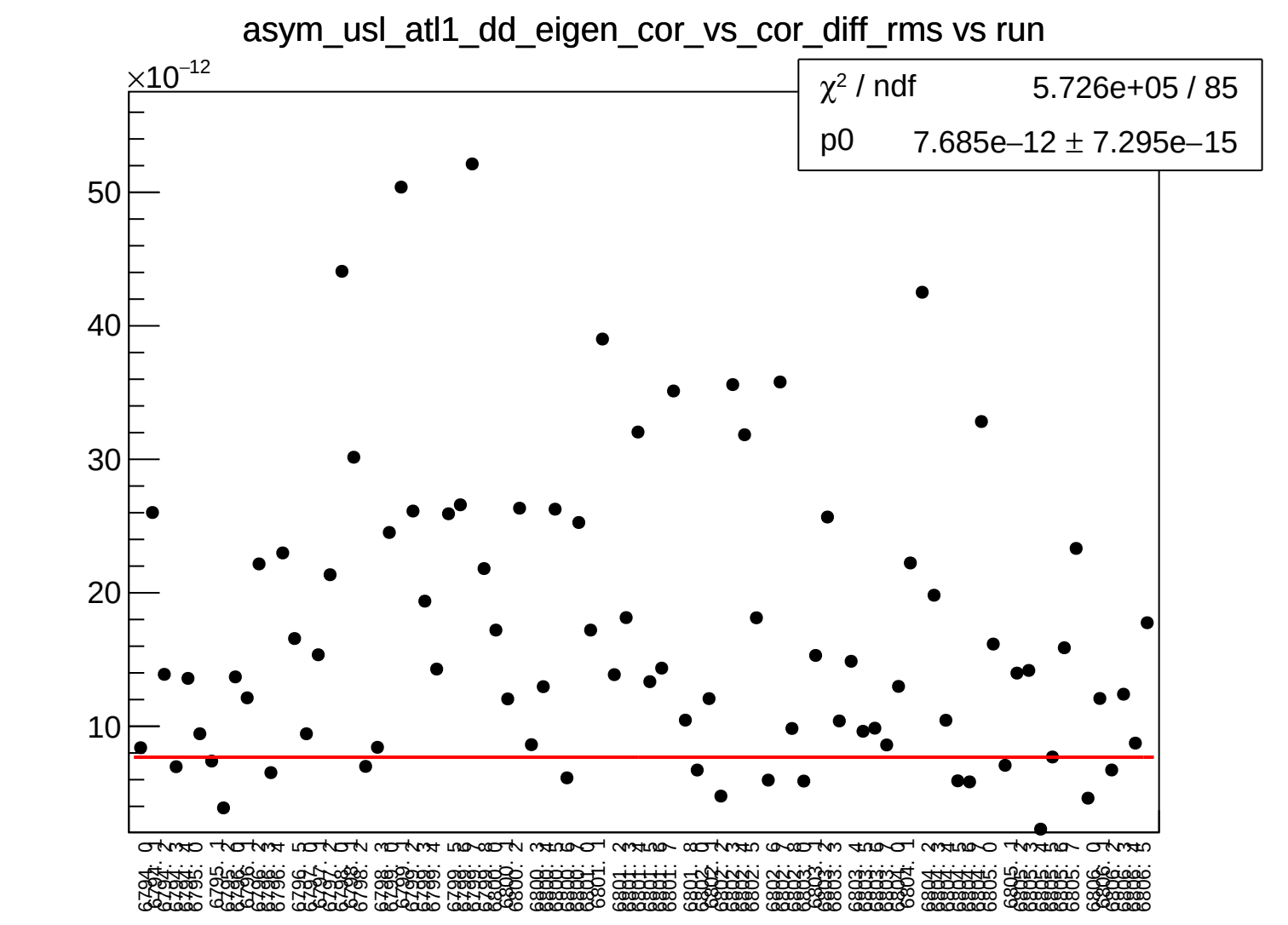

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.2 / 85
p0 0.0003934 ± 0.02314
pull
Entries 86
Mean 94.94
Std Dev 28.4

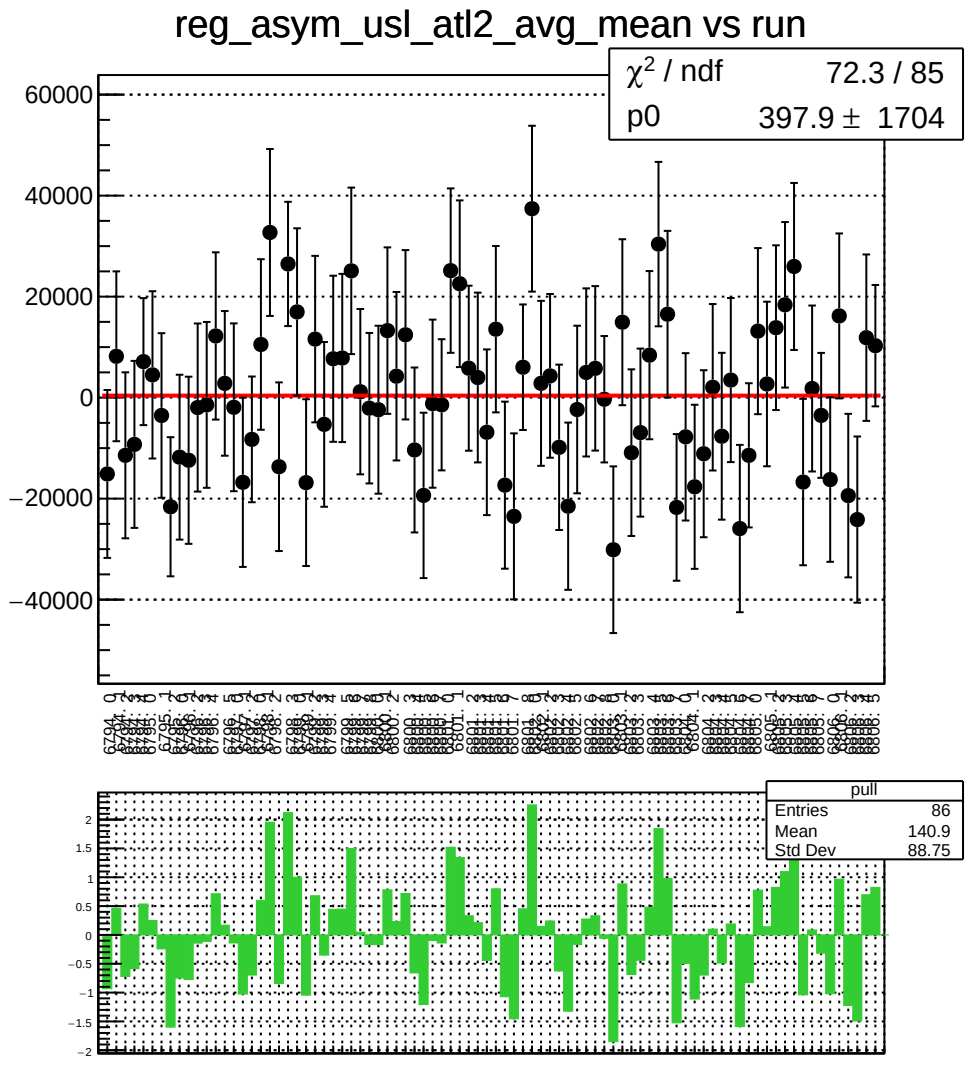

pull1D
Entries 86
Mean −0.04571
Std Dev 1.062

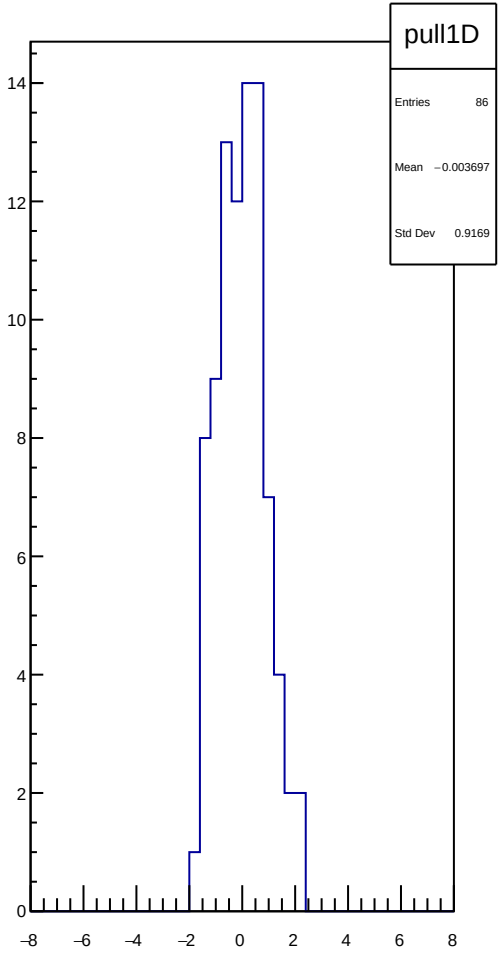

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.536e+05 / 85
p0 19.56 ± 0.01637
45
40
35
30
25
20
15
10

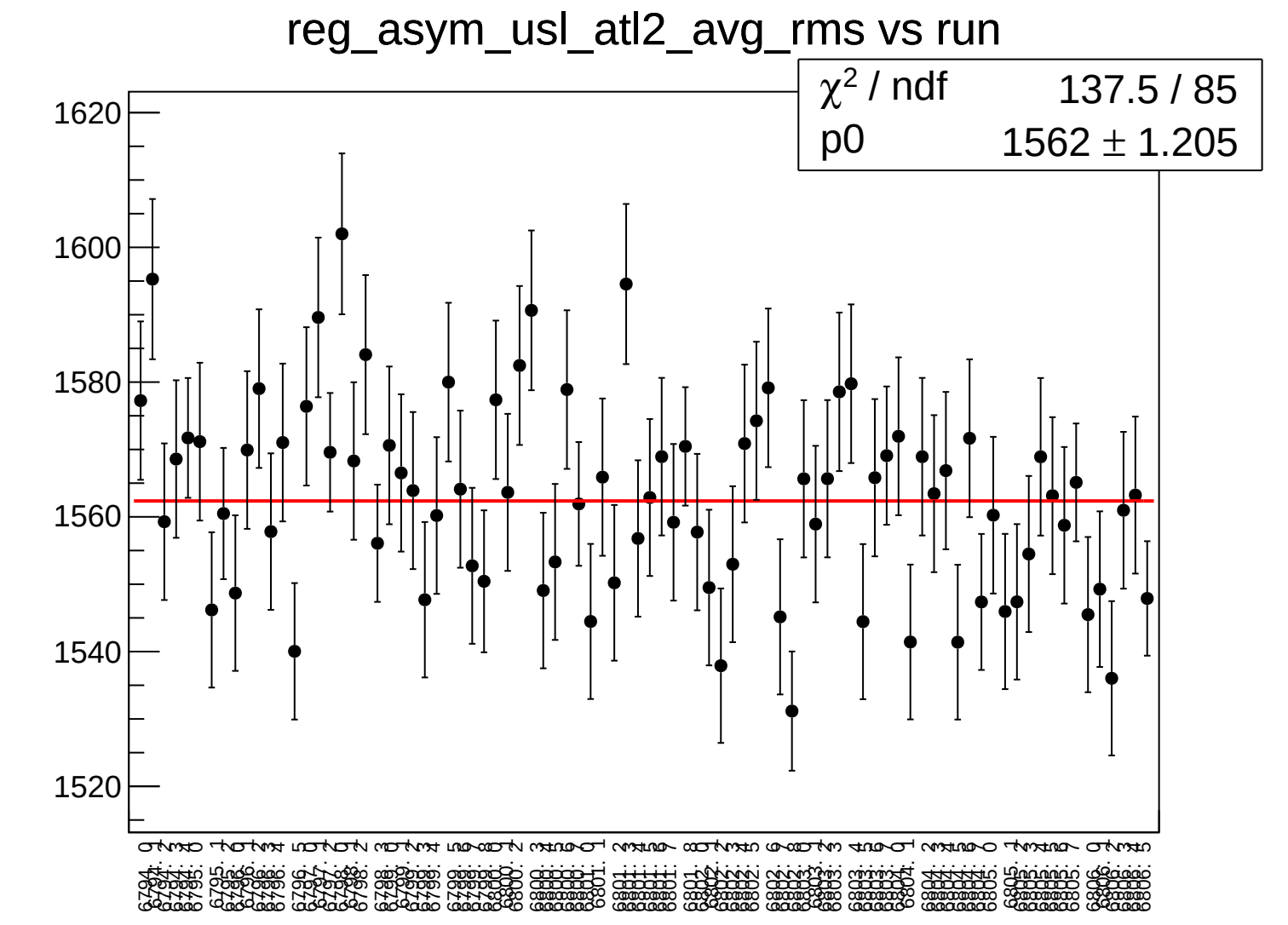

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.19 / 85
p0 1.985e−14 ± 1.032e−14
pull
Entries 86
Mean −5.265
Std Dev 0

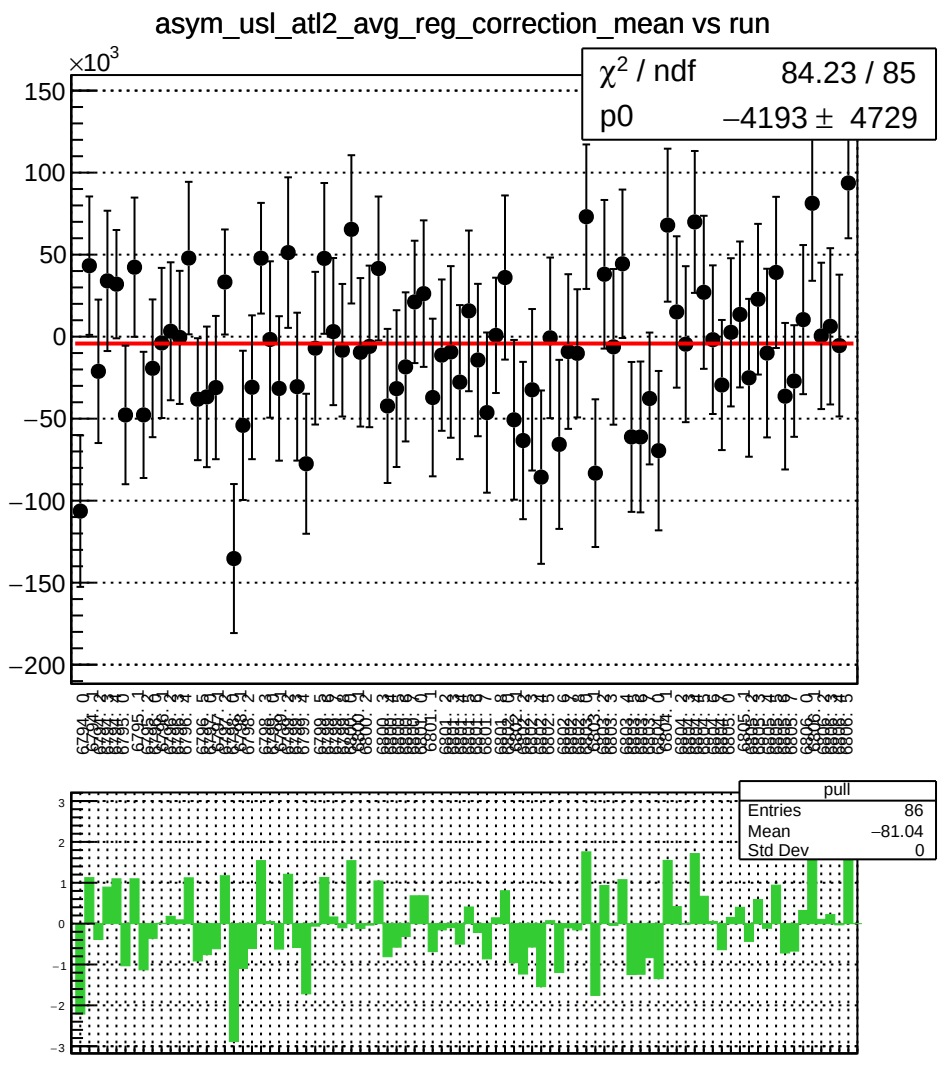

pull1D
Entries 86
Mean −0.06477
Std Dev 1.016

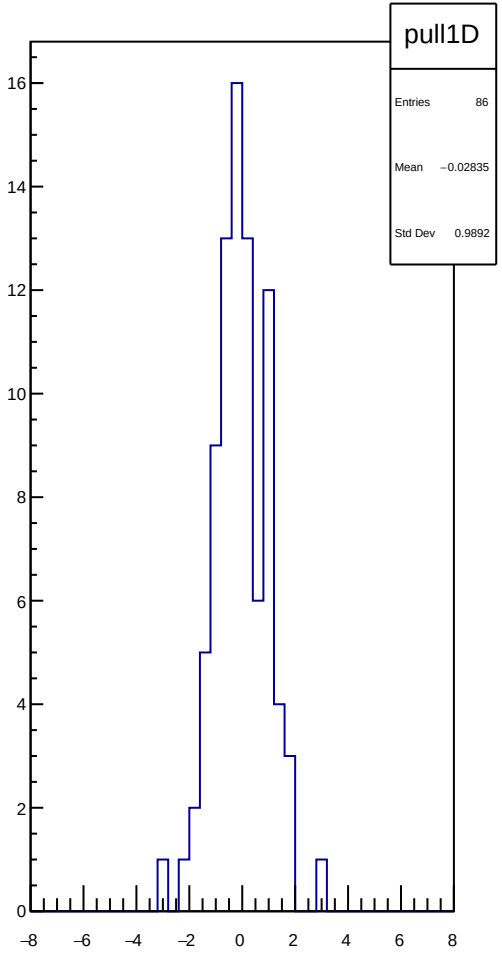

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.726e+05 / 85
p0 7.685e−12 ± 7.295e−15
50
40
30
20
10

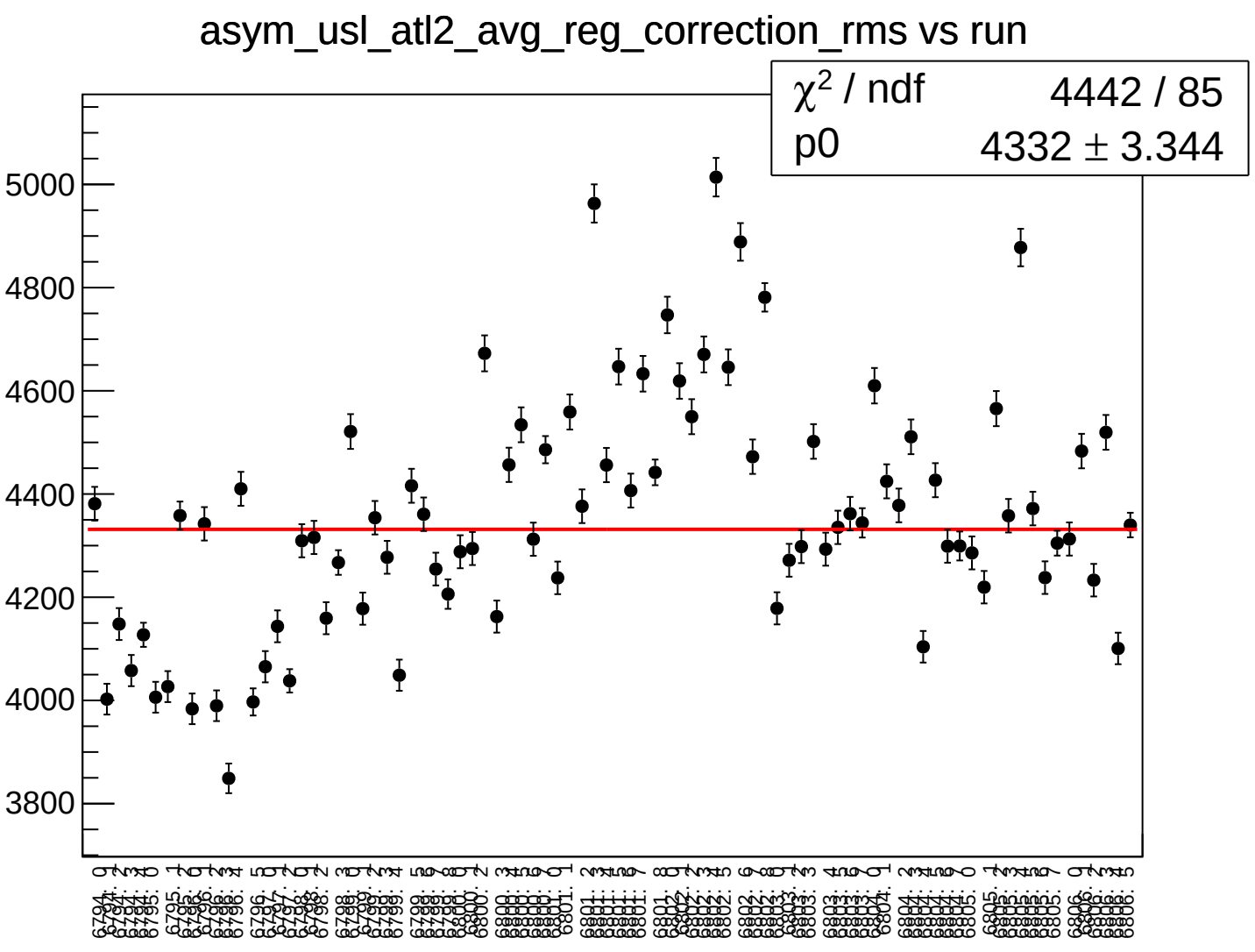

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.3 / 85
p0 397.9 ± 1704
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 140.9
Std Dev 88.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

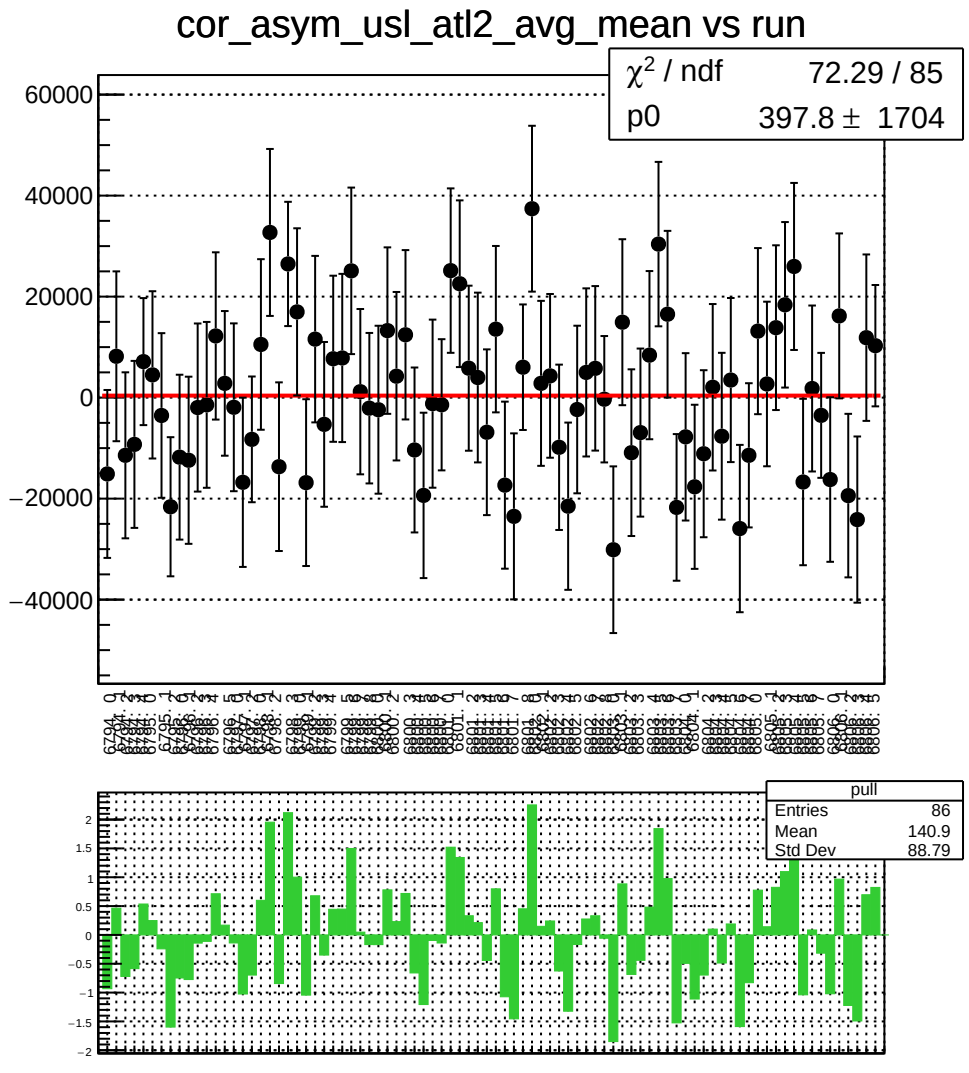

pull1D
Entries 86
Mean −0.003697
Std Dev 0.9169
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

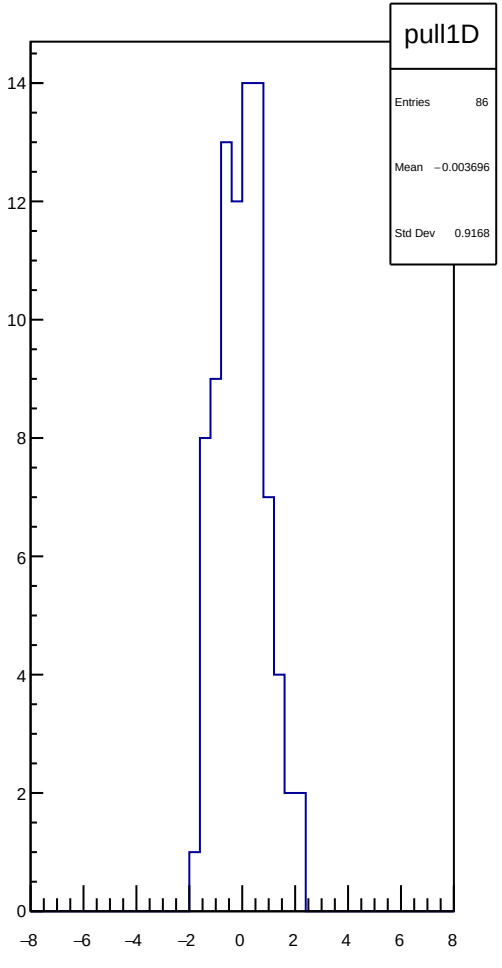

reg_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 137.5 / 85
p0 1562 ± 1.205
1620
1600
1580
1560
1540
1520

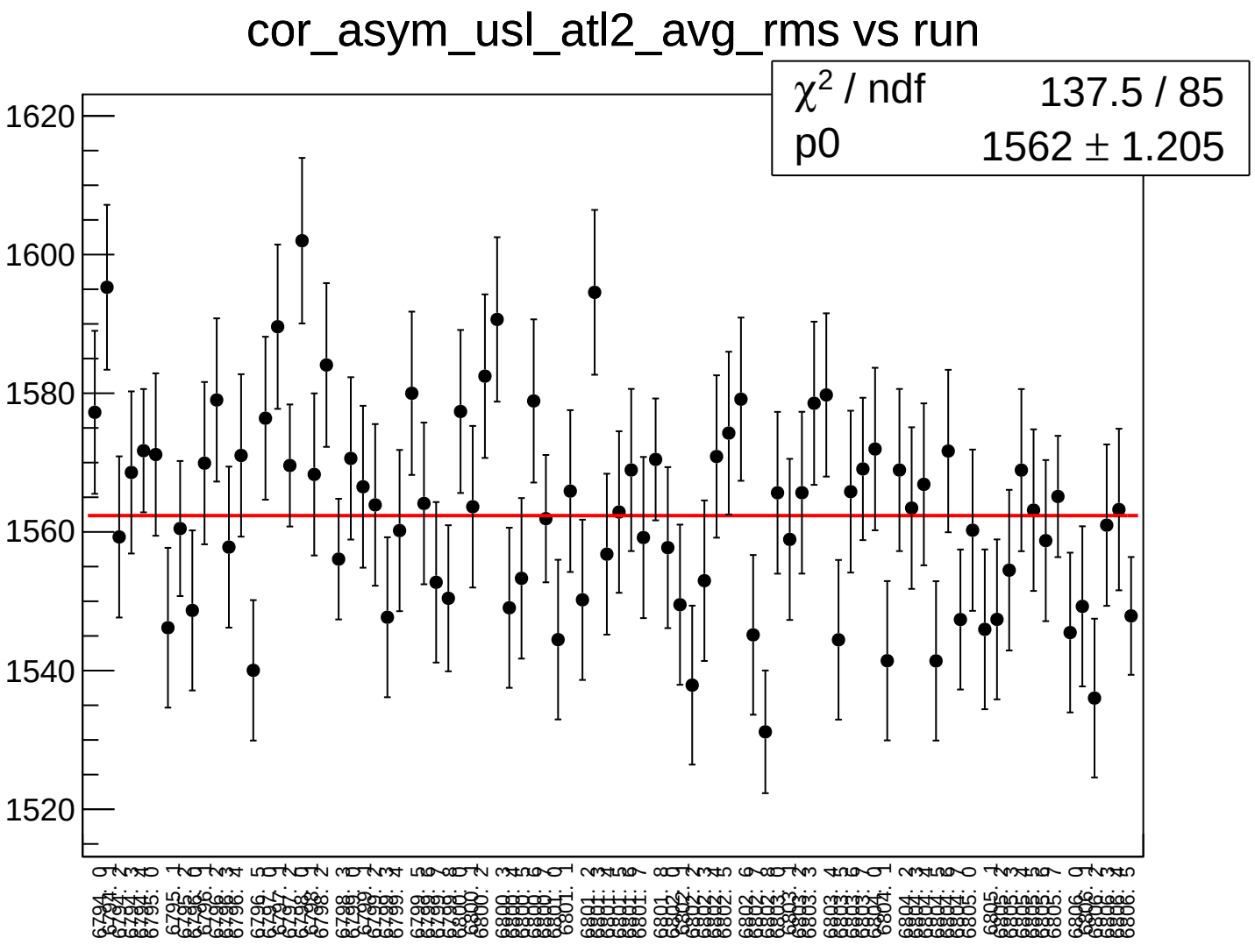

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 84.23 / 85
p0 −4193 ± 4729
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −81.04
Std Dev 0
3
2
1
0
−1
−2
−3

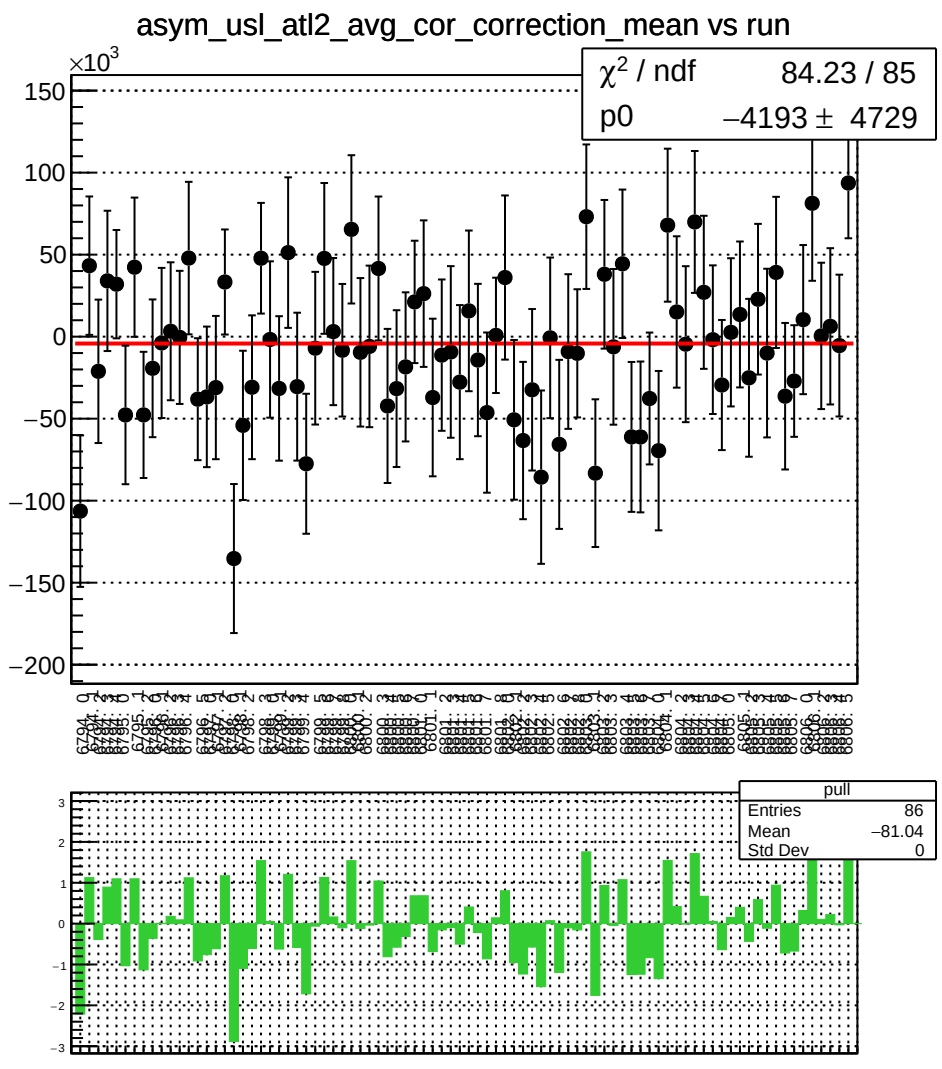

pull1D
Entries 86
Mean −0.02835
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

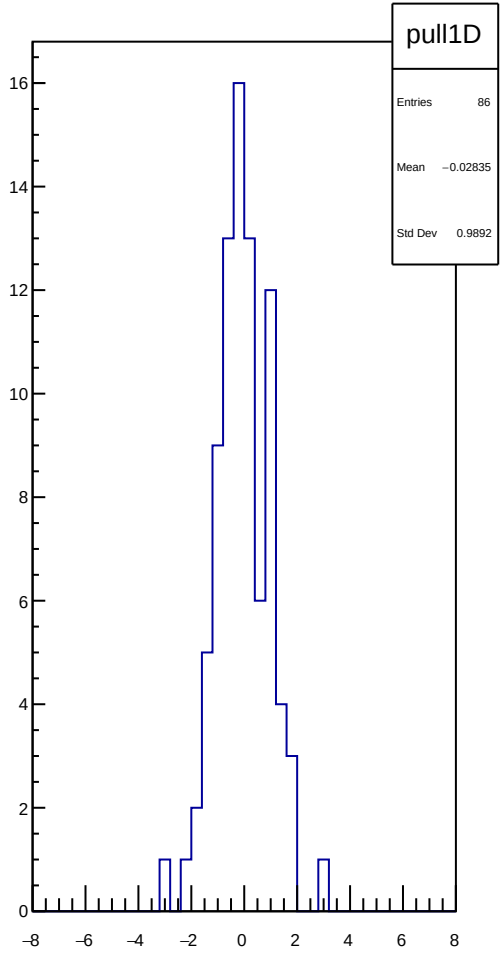

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 4442 / 85
p0 4332 ± 3.344
5000
4800
4600
4400
4200
4000
3800

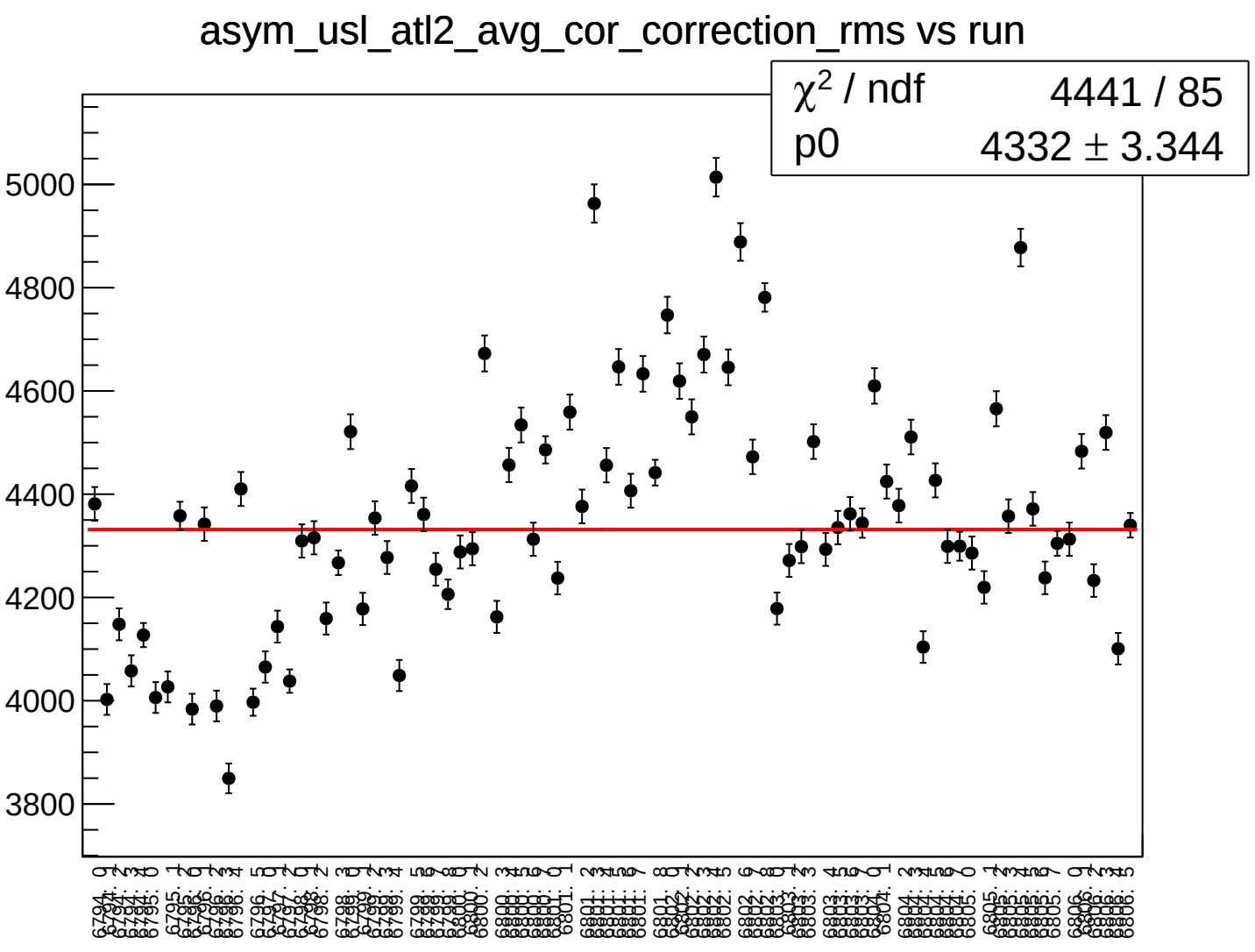

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.29 / 85
p0 397.8 ± 1704
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 140.9
Std Dev 88.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

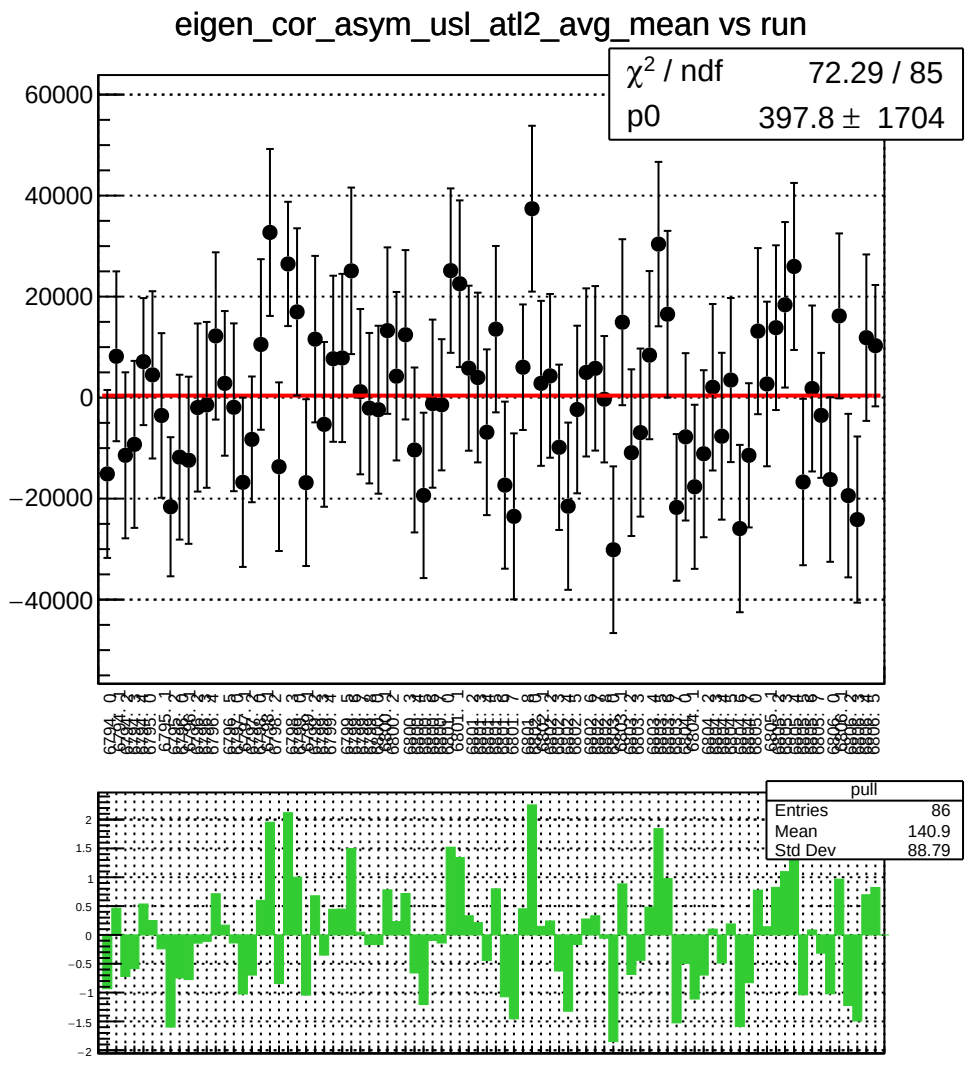

pull1D
Entries 86
Mean −0.003696
Std Dev 0.9168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

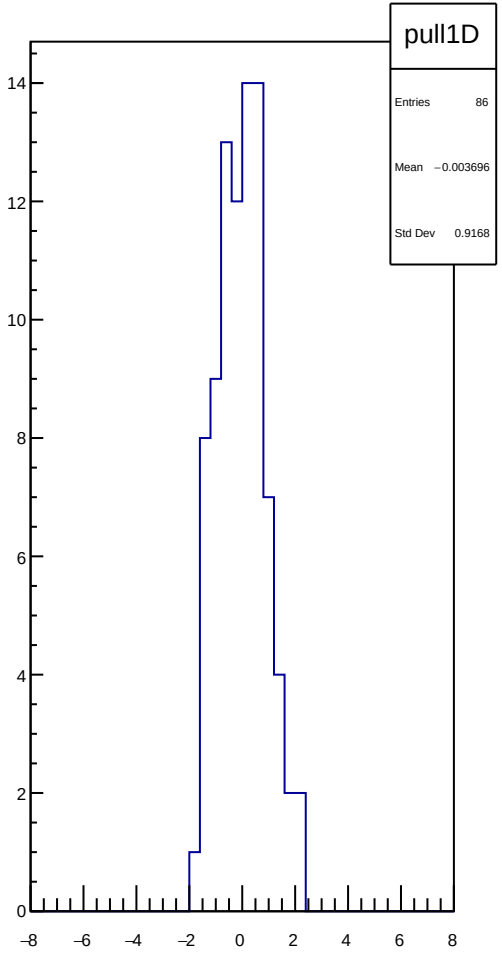

cor_asym_usl_atl2_avg_rms vs run
χ^2 / ndf 137.5 / 85
p0 1562 ± 1.205
1620
1600
1580
1560
1540
1520

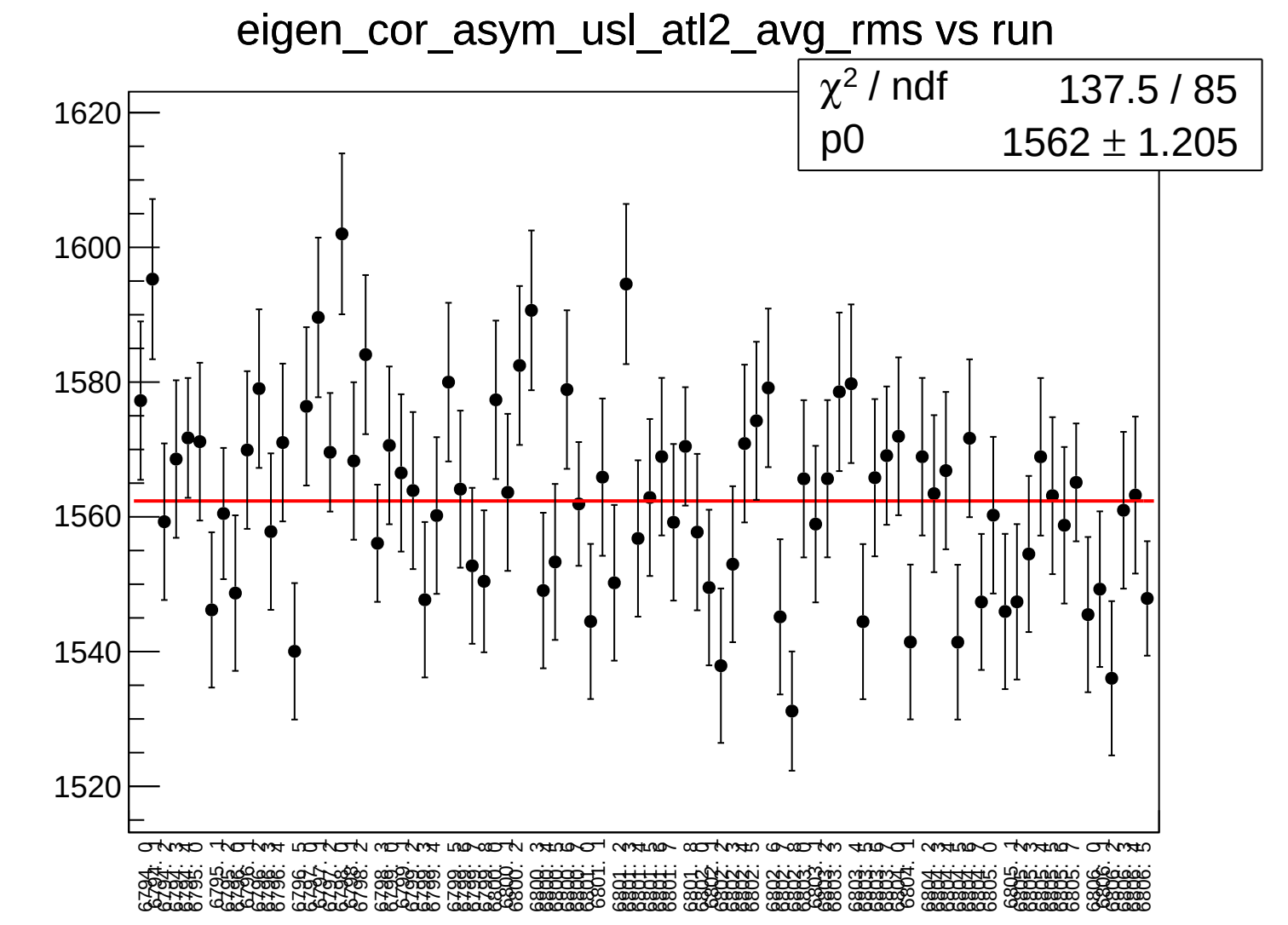

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 84.23 / 85
p0 −4193 ± 4729
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −81.04
Std Dev 0
3
2
1
0
−1
−2
−3

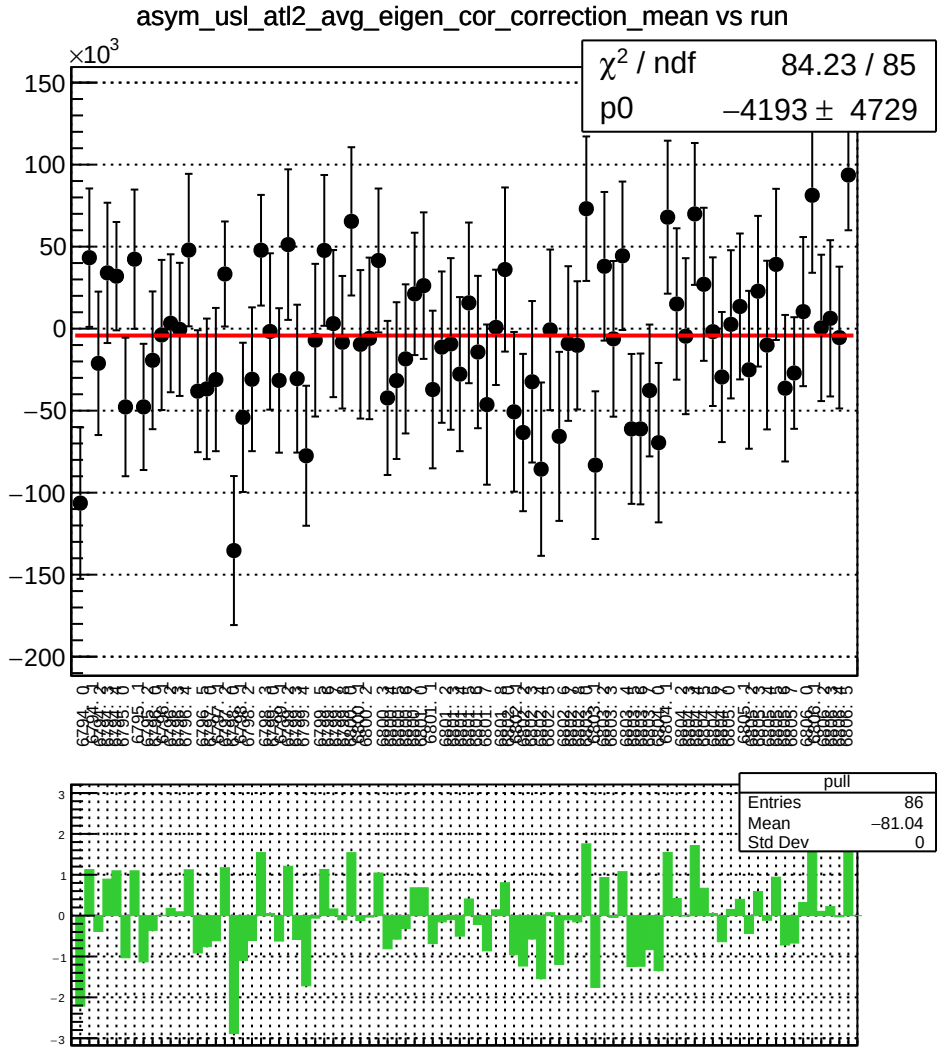

pull1D
Entries 86
Mean −0.02835
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

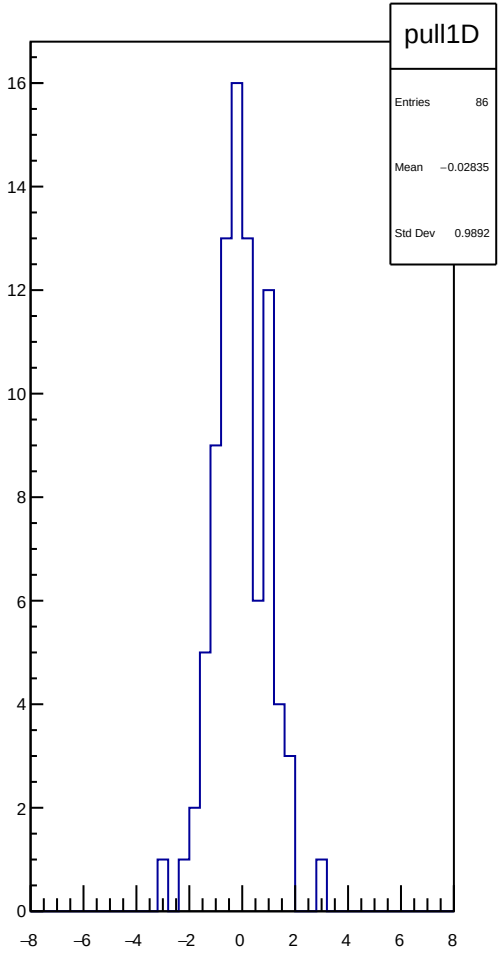

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 4441 / 85
p0 4332 ± 3.344
5000
4800
4600
4400
4200
4000
3800

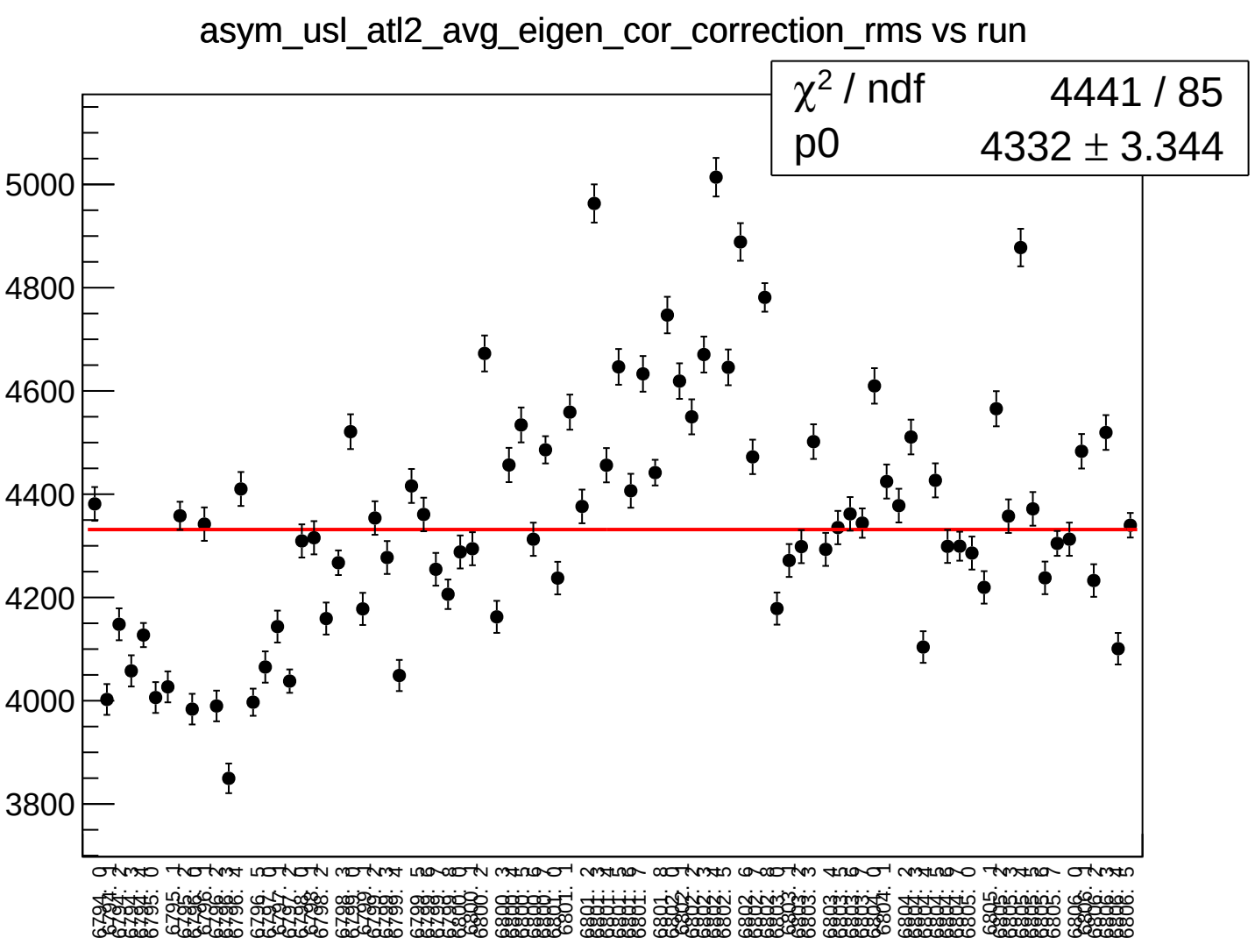

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 72.29 / 85
p0 397.8 ± 1704
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 140.9
Std Dev 88.79
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

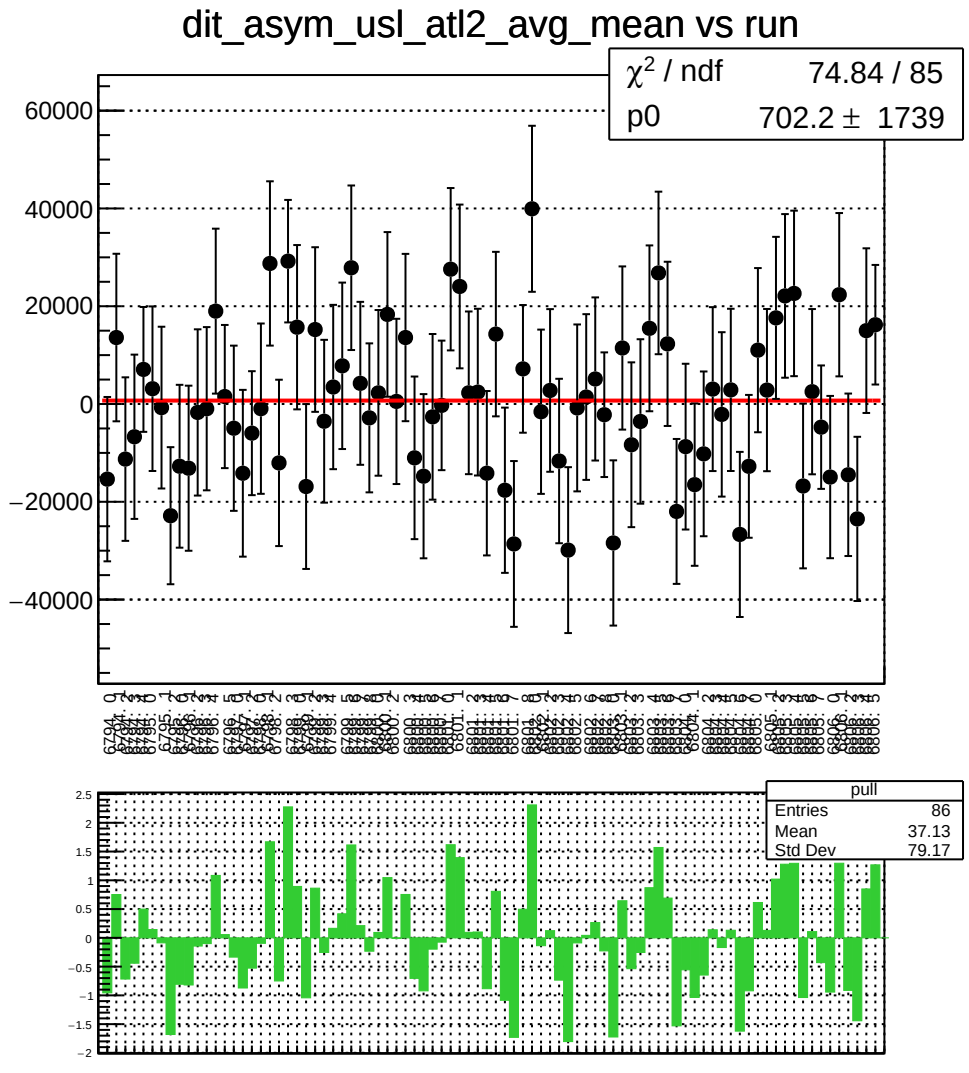

pull1D
Entries 86
Mean −0.003696
Std Dev 0.9168
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

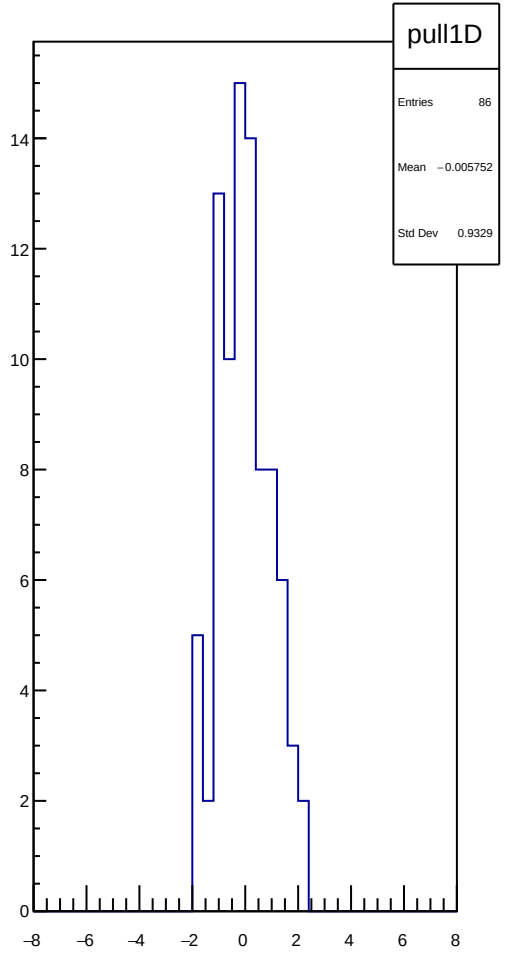

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 137.5 / 85
p0 1562 ± 1.205
1620
1600
1580
1560
1540
1520

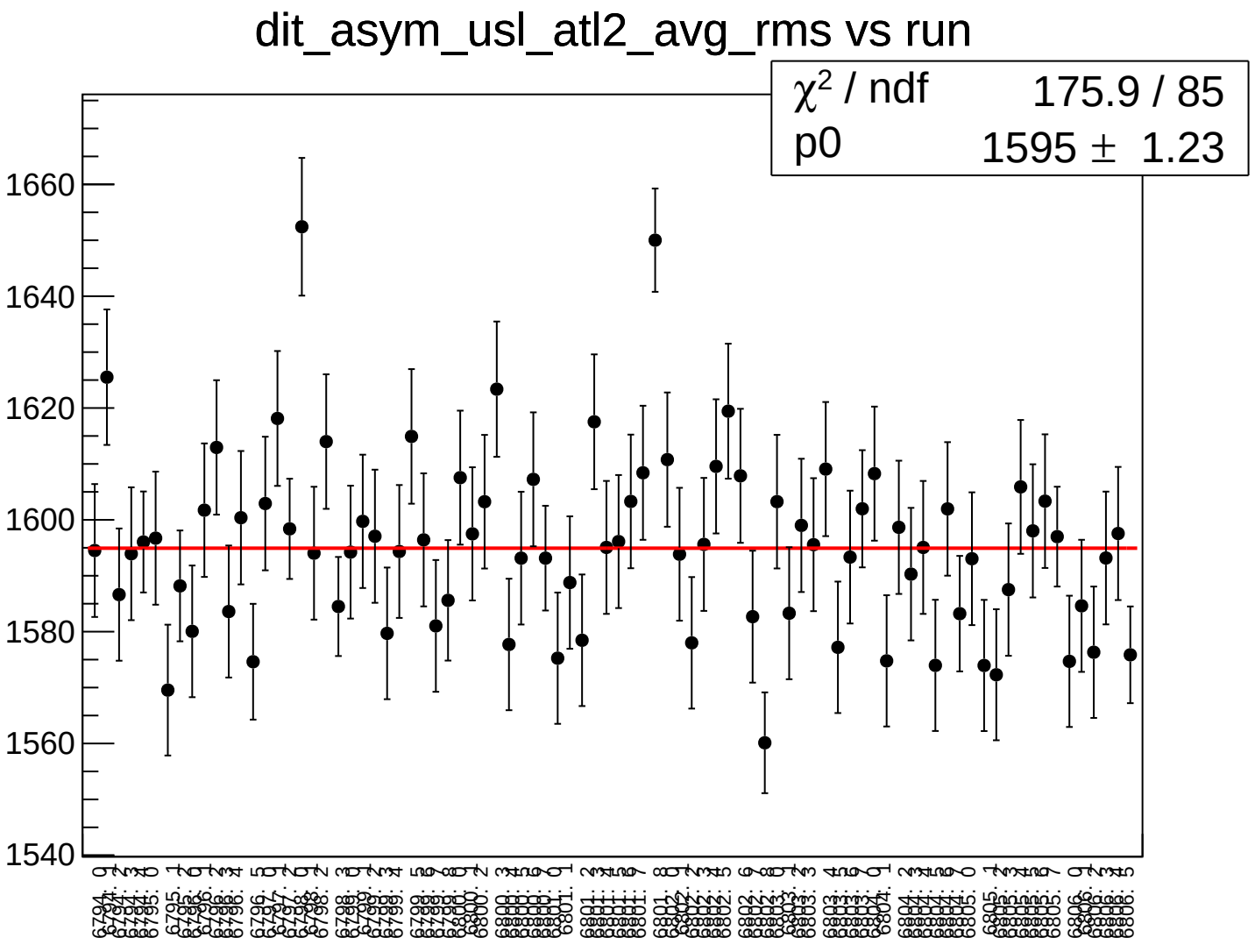

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 84.23 / 85
p0 −4193 ± 4729
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −81.04
Std Dev 0
3
2
1
0
−1
−2
−3

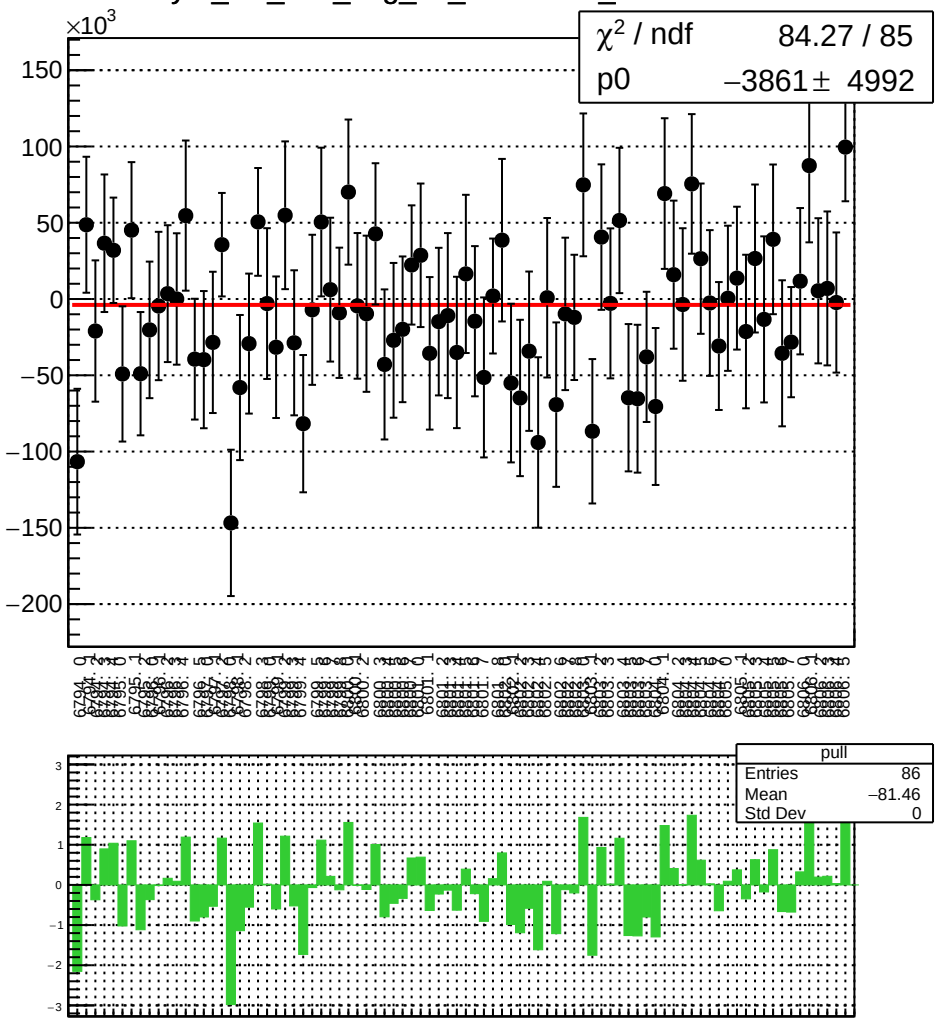

pull1D
Entries 86
Mean −0.02835
Std Dev 0.9892
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

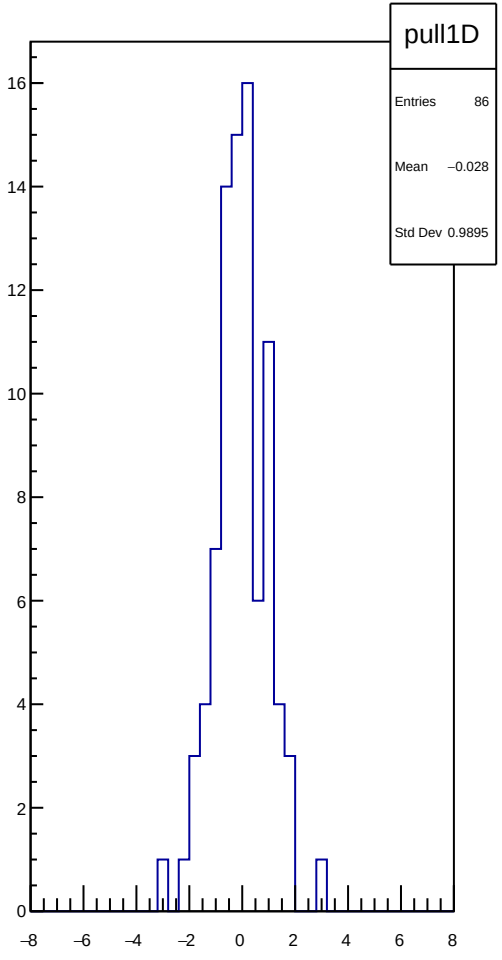

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4441 / 85
p0 4332 ± 3.344
5000
4800
4600
4400
4200
4000
3800

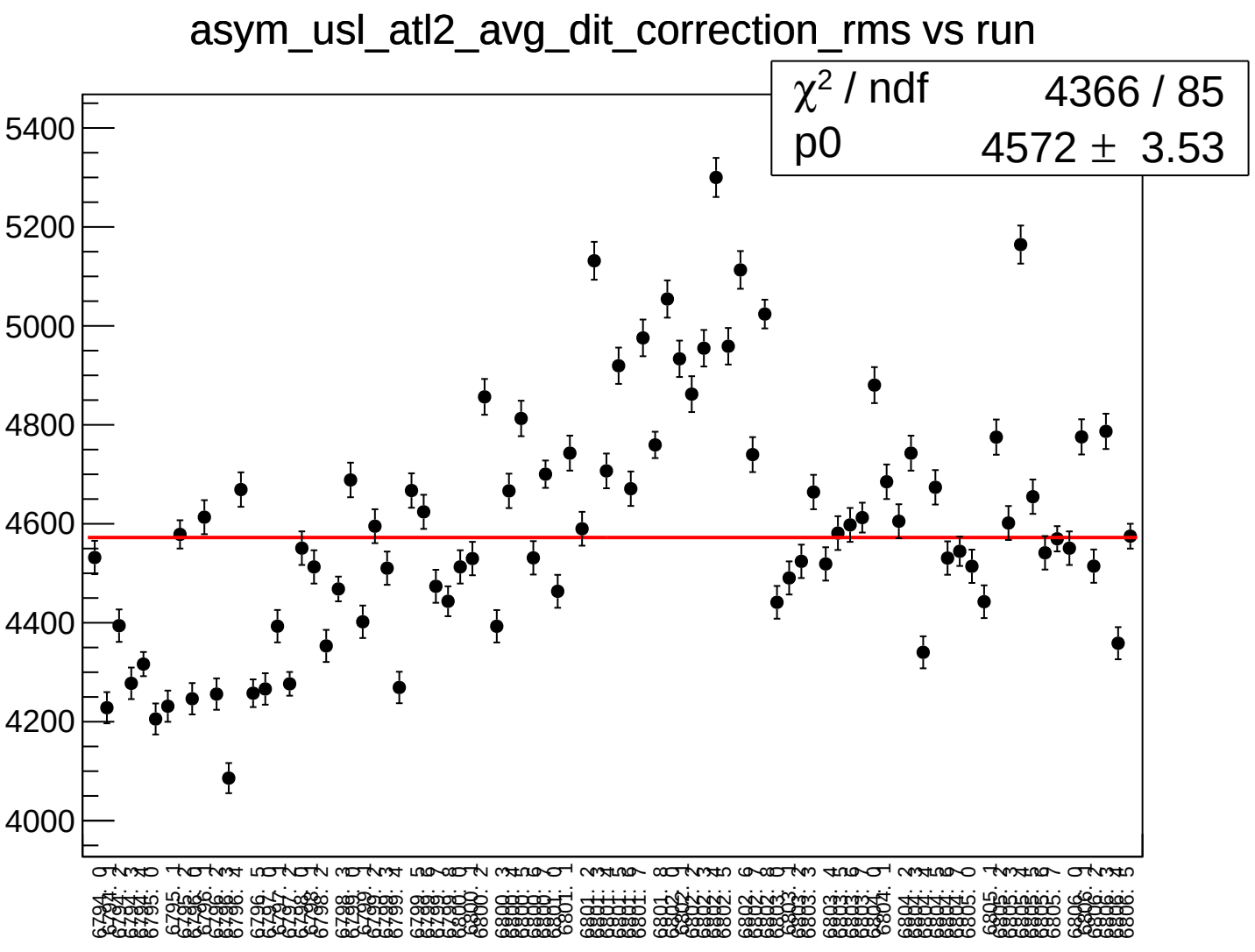

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 74.84 / 85
p0 702.2 ± 1739
pull
Entries 86
Mean 37.13
Std Dev 79.17

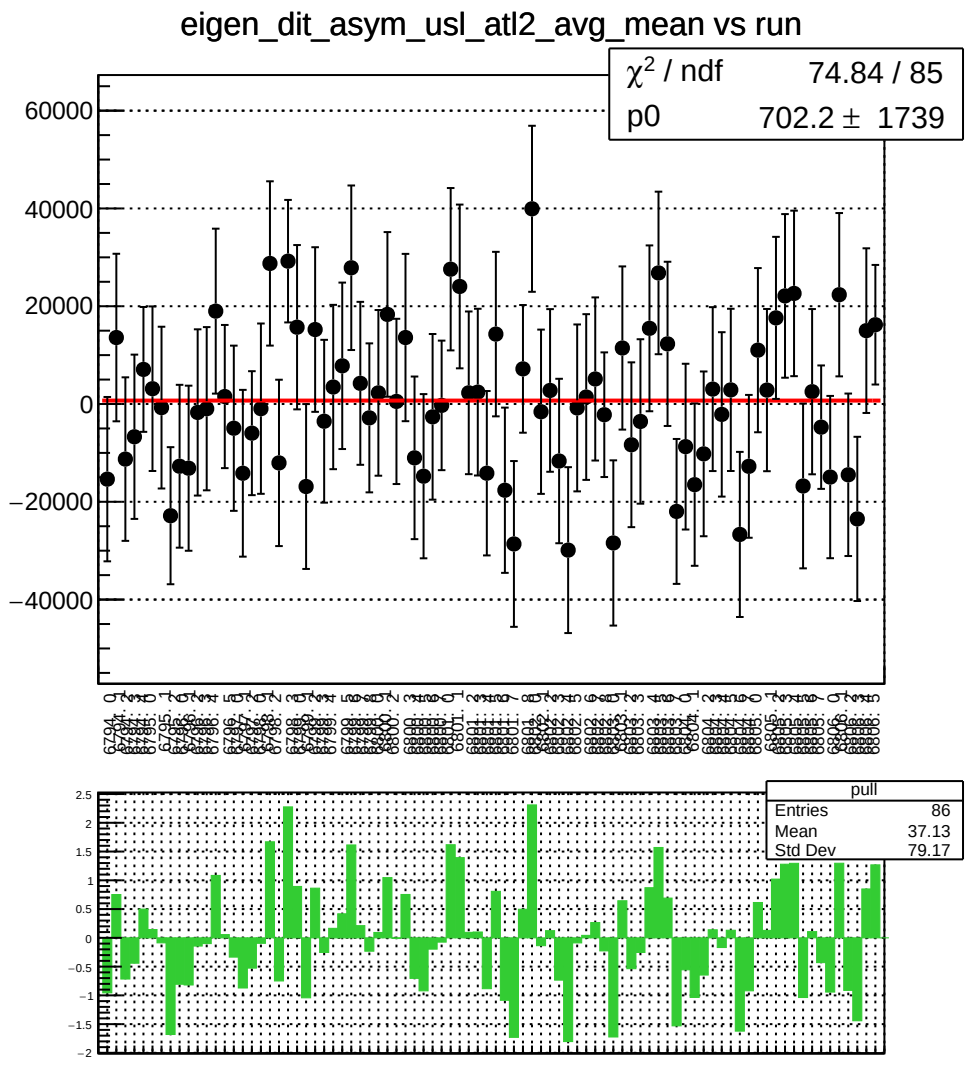

pull1D
Entries 86
Mean −0.005752
Std Dev 0.9329

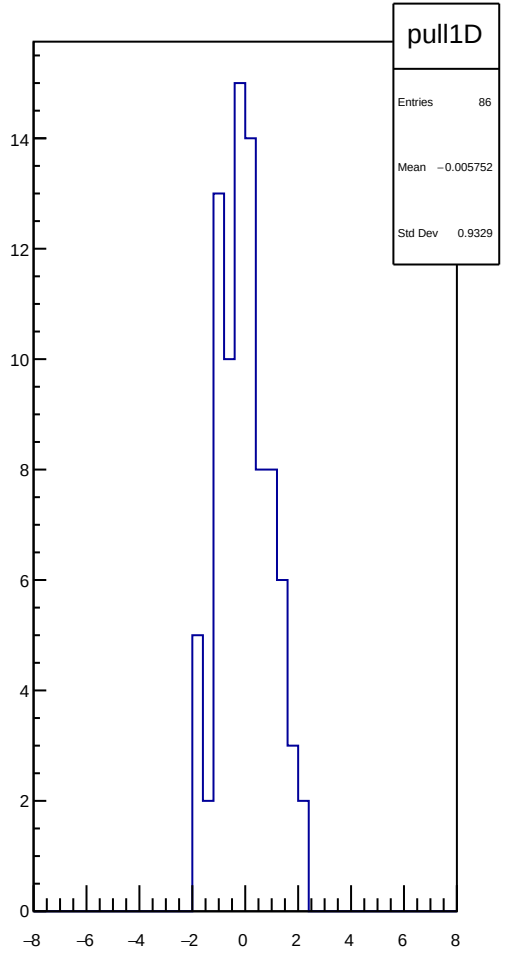

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 175.9 / 85
p0 1595 ± 1.23
1660
1640
1620
1600
1580
1560
1540

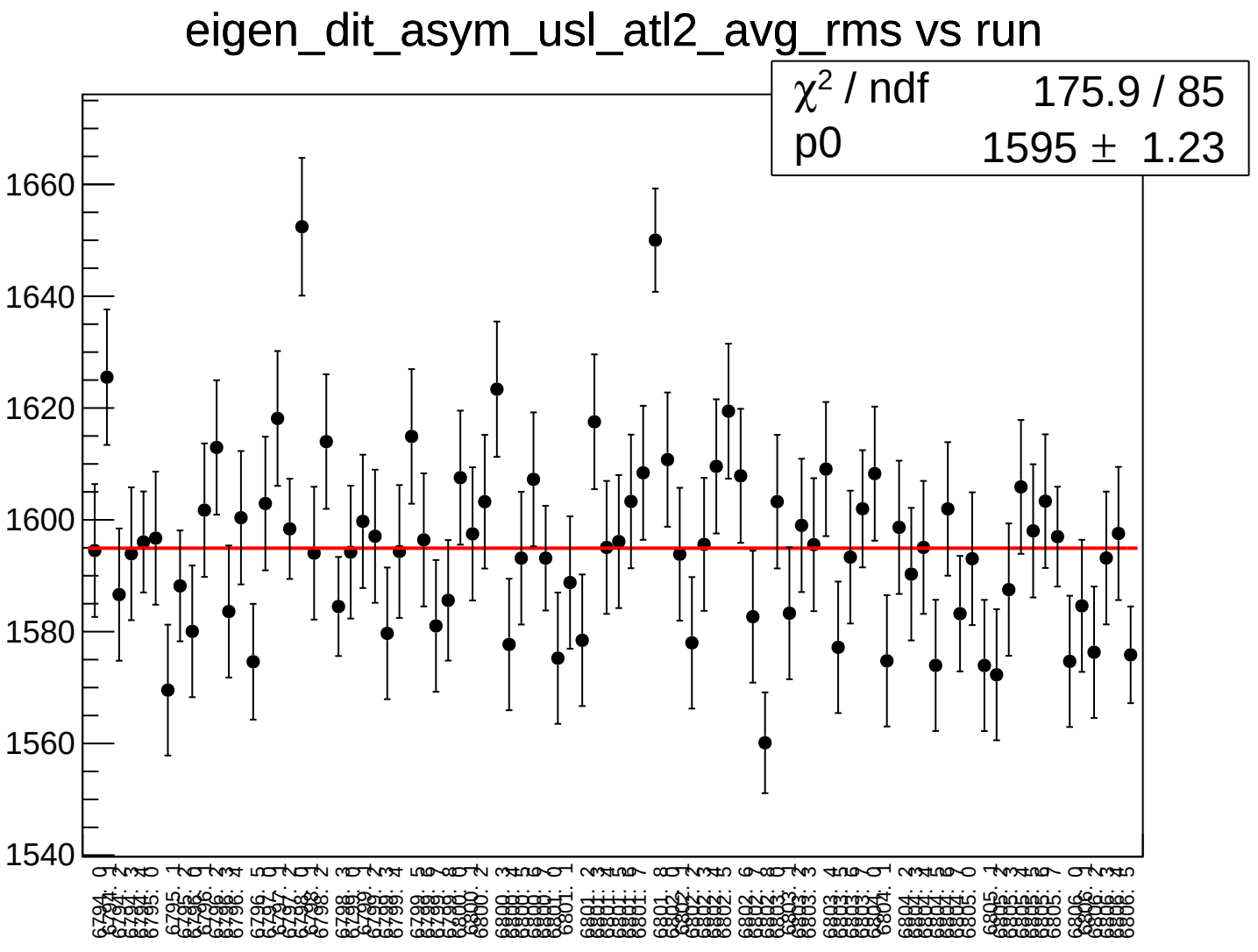

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 84.27 / 85
p0 −3861 ± 4992
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −81.46
Std Dev 0
3
2
1
0
−1
−2
−3

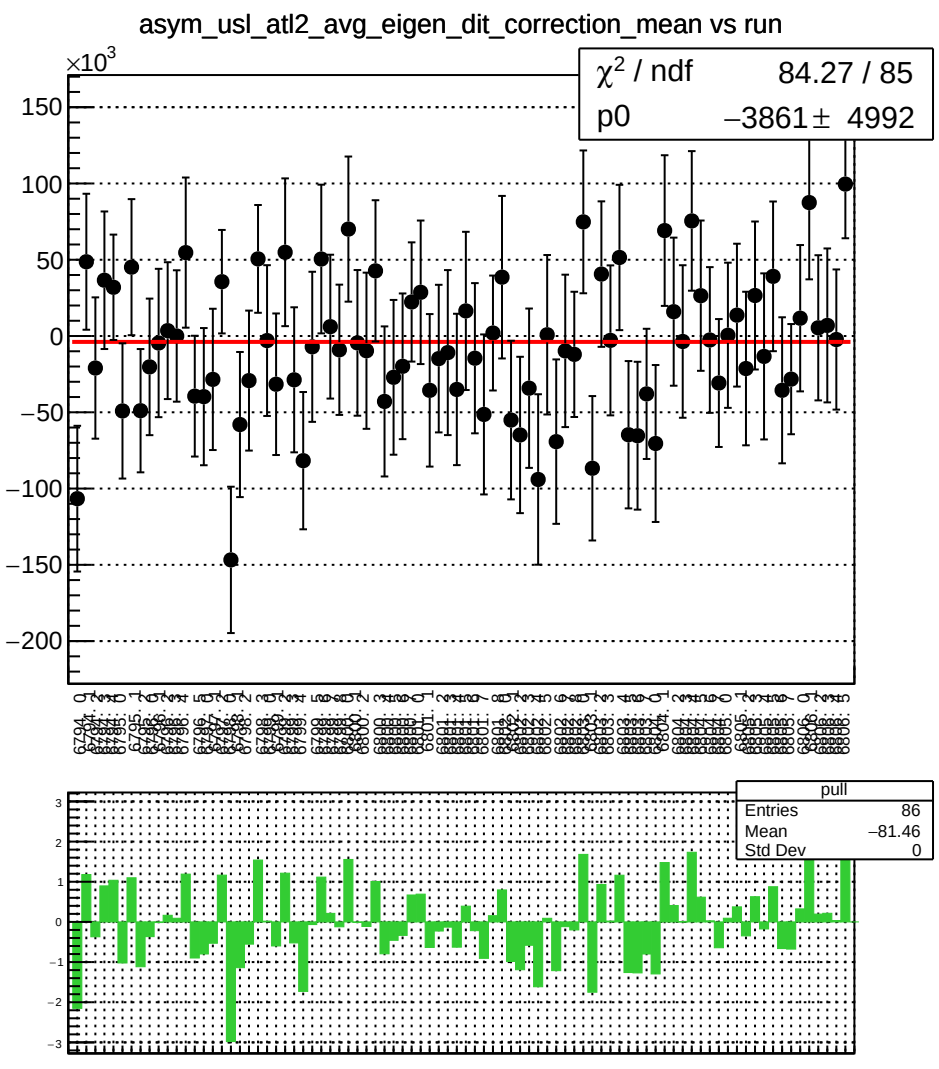

pull1D
Entries 86
Mean −0.028
Std Dev 0.9895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

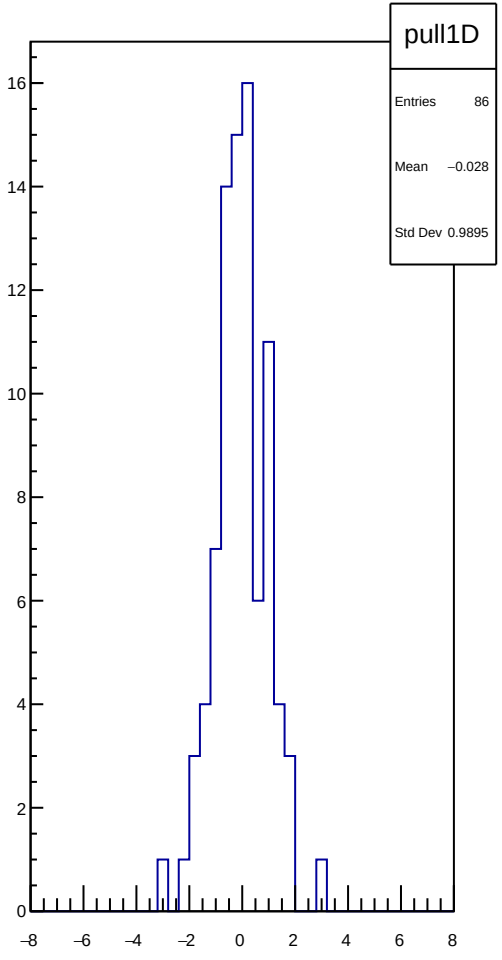

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4366 / 85
p0 4572 ± 3.53
5400
5200
5000
4800
4600
4400
4200
4000

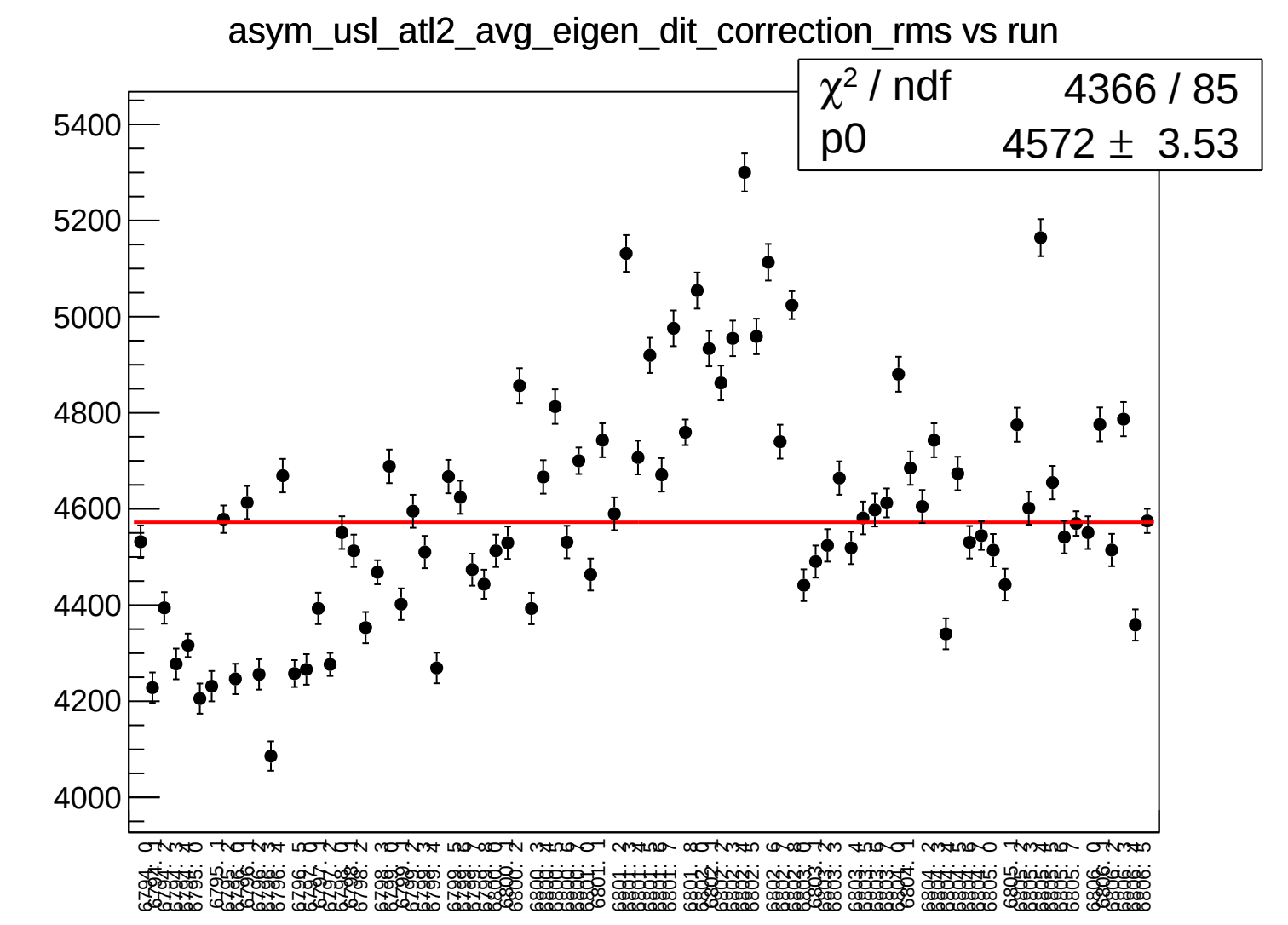

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 74.84 / 85
p0 702.2 ± 1739
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 37.13
Std Dev 79.17
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

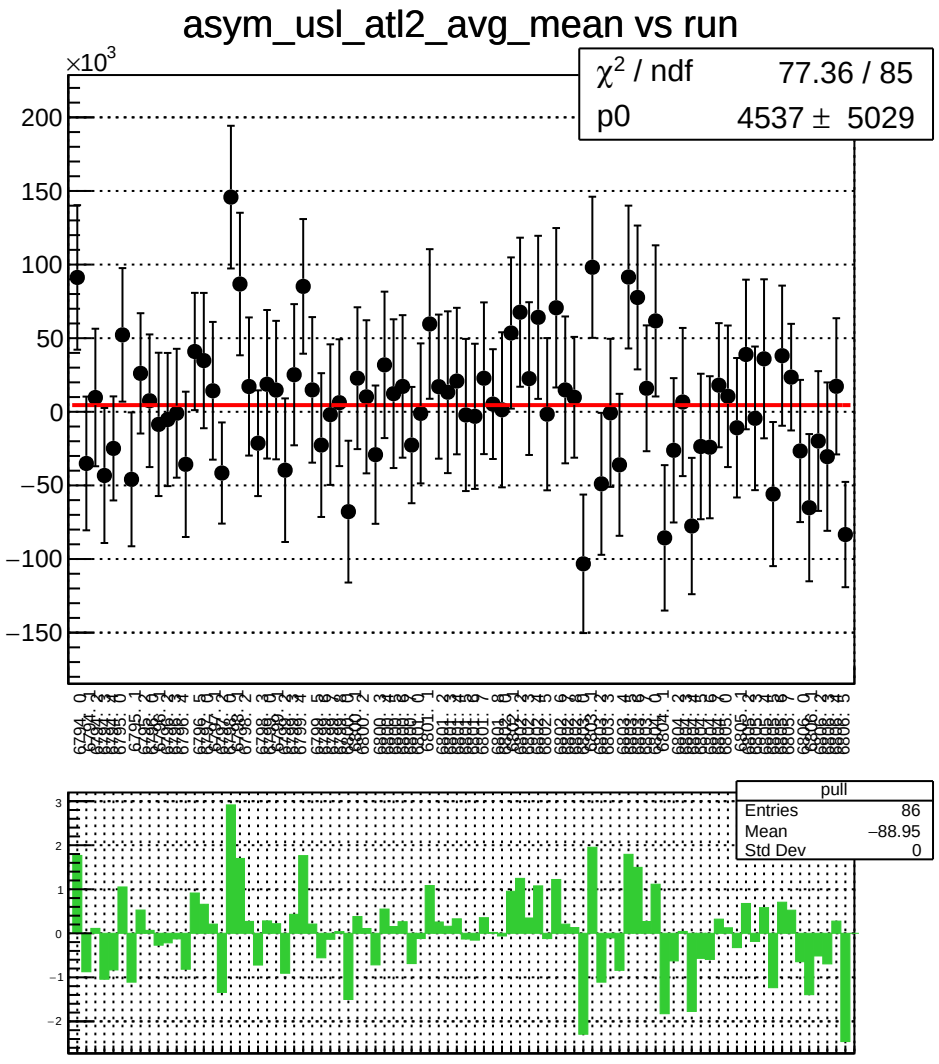

pull1D
Entries 86
Mean −0.005752
Std Dev 0.9329
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

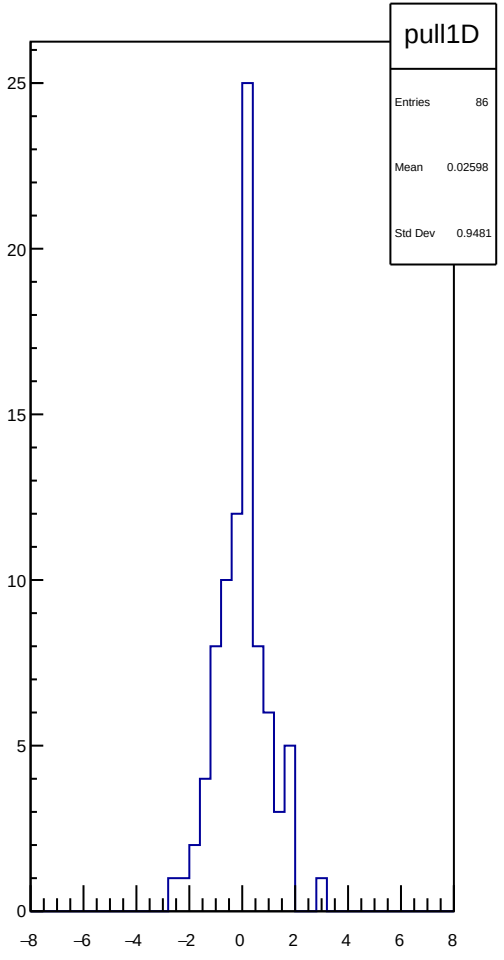

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 175.9 / 85
p0 1595 ± 1.23
1660
1640
1620
1600
1580
1560
1540

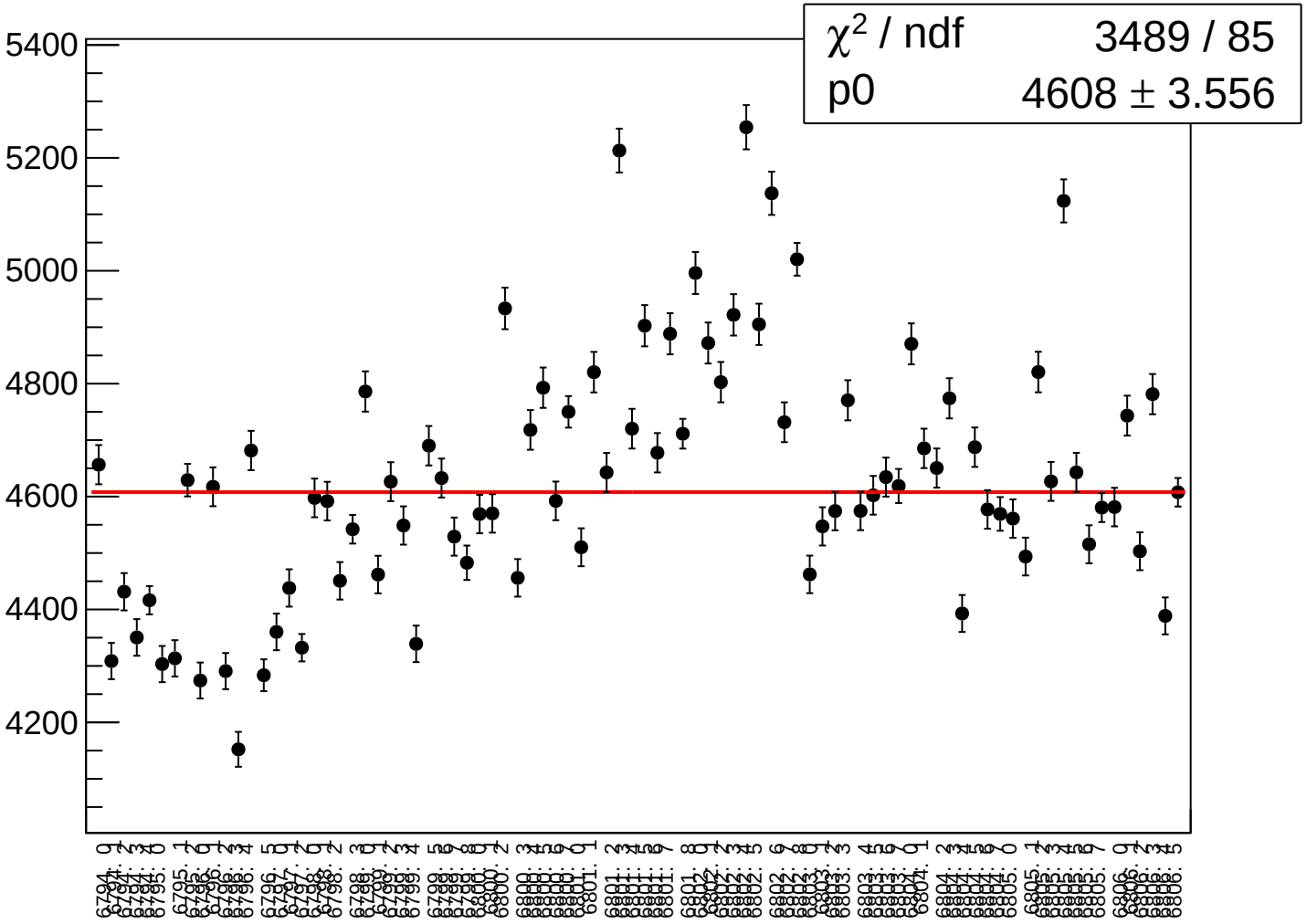

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.27 / 85
p0 −3861 ± 4992
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −81.46
Std Dev 0
3
2
1
0
−1
−2
−3

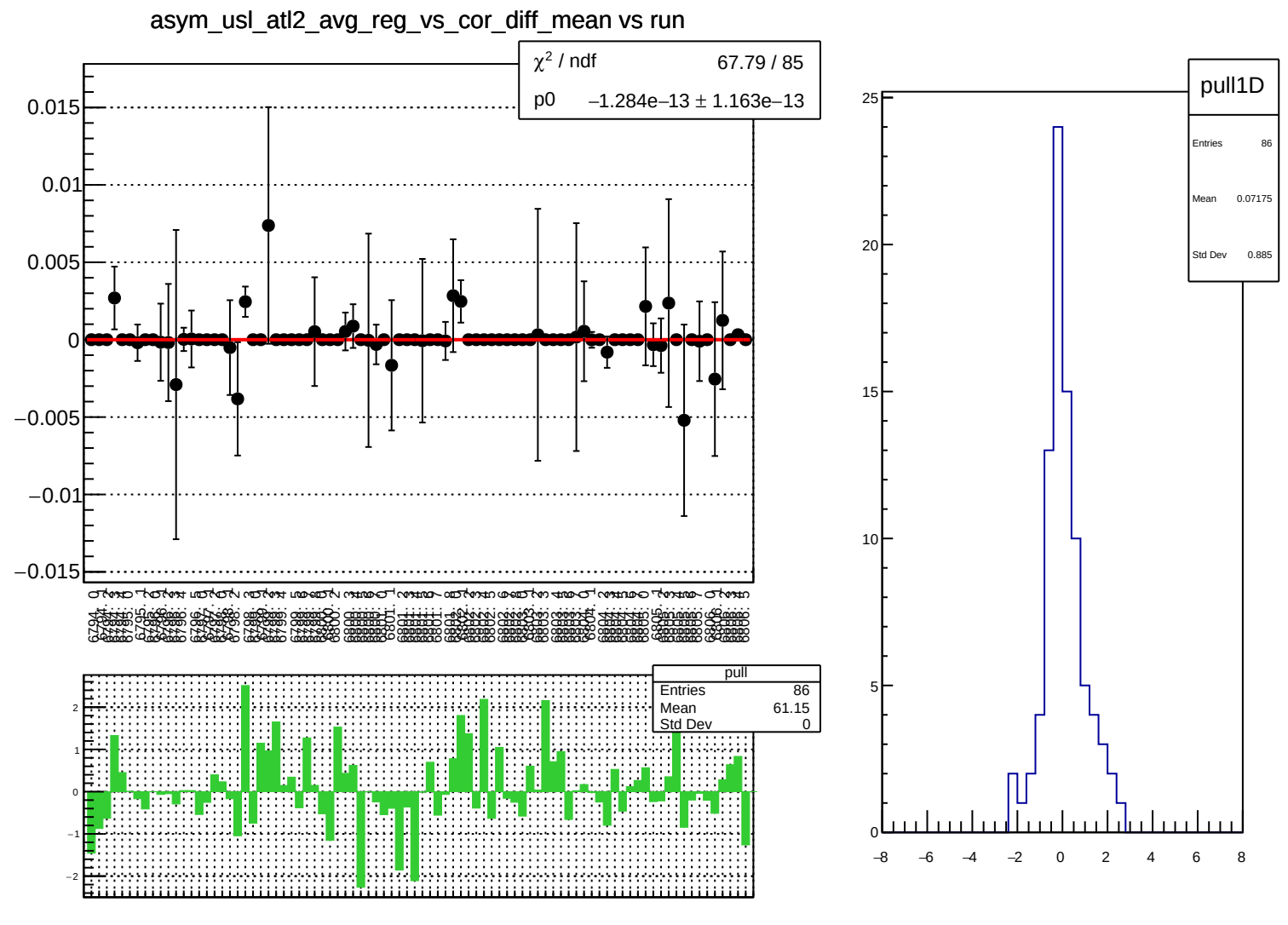

pull1D
Entries 86
Mean −0.028
Std Dev 0.9895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

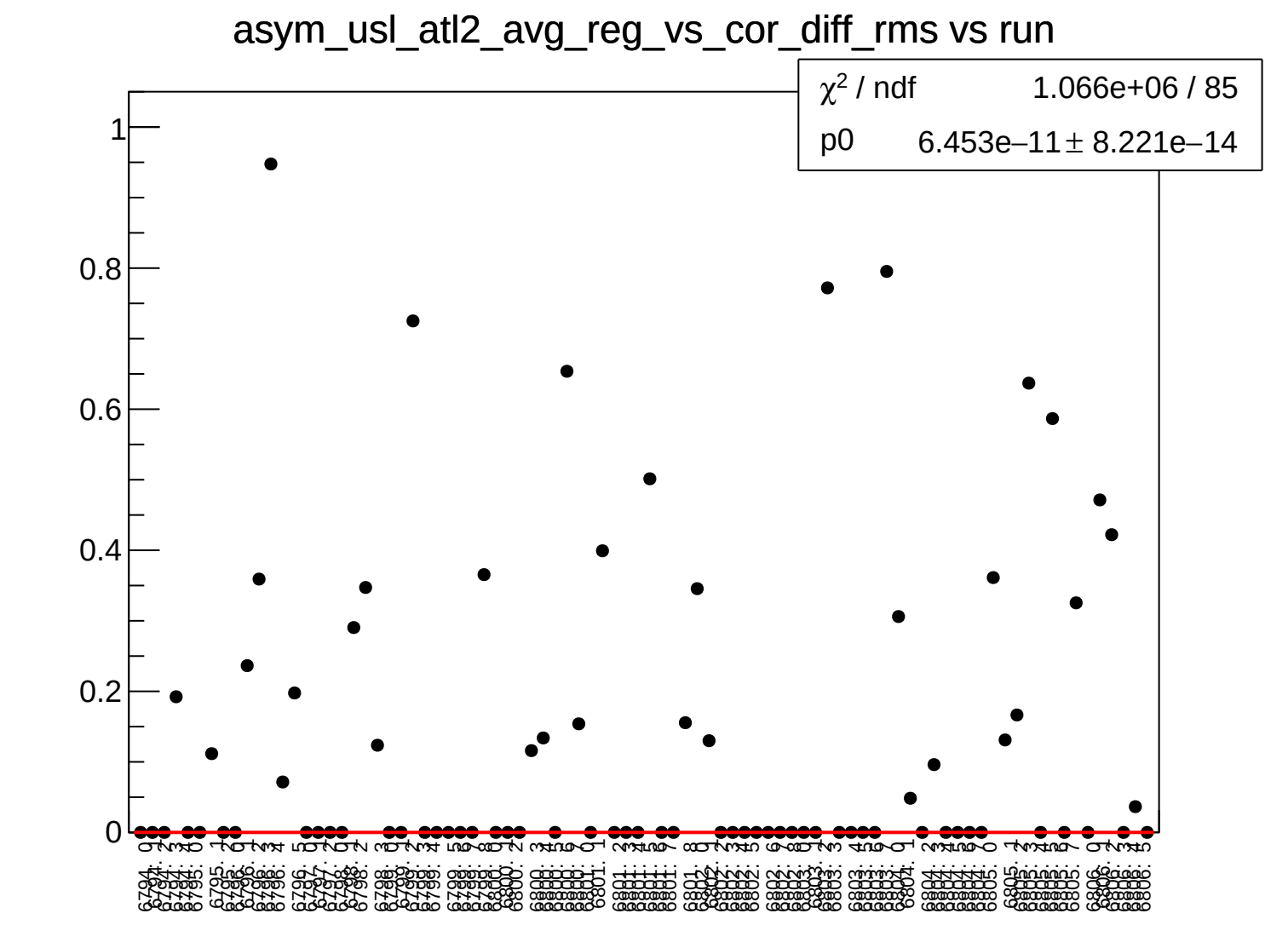

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4366 / 85
p0 4572 ± 3.53
5400
5200
5000
4800
4600
4400
4200
4000

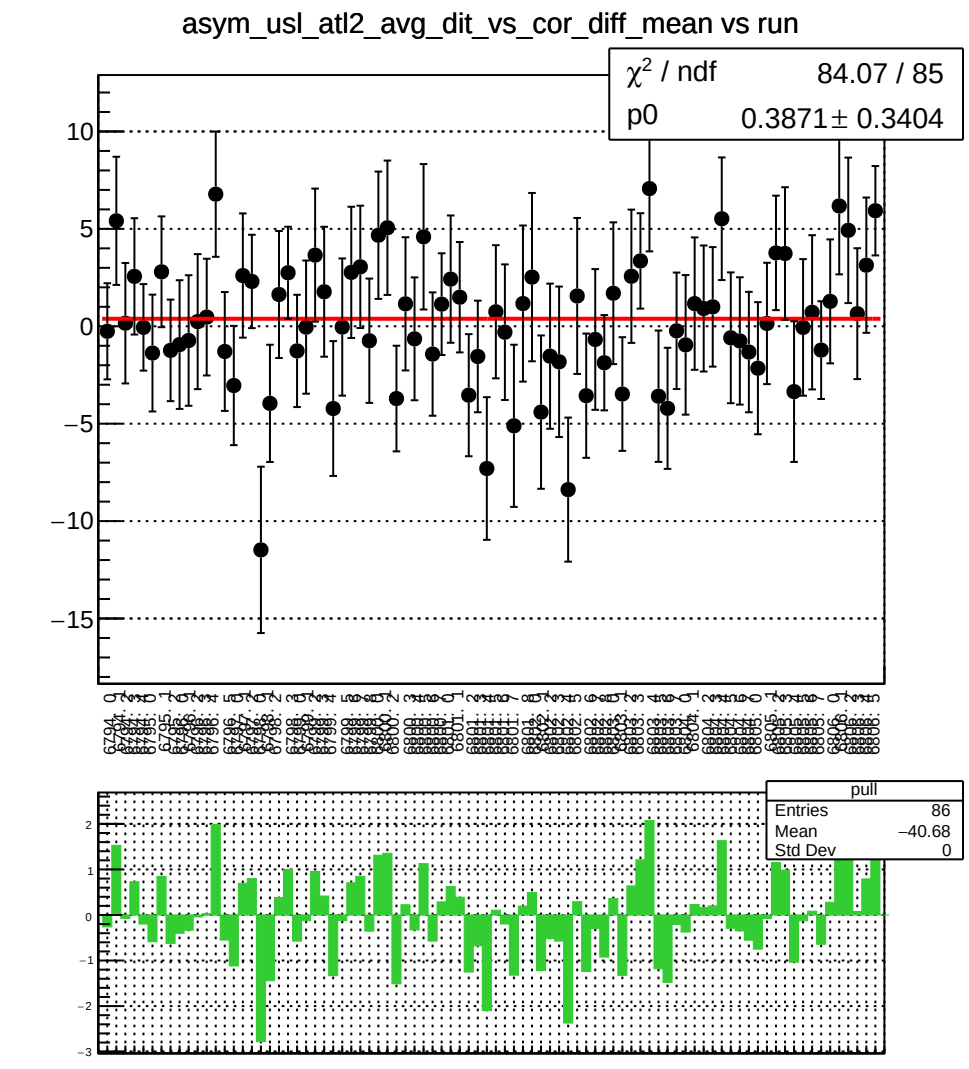

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 77.36 / 85
p0 4537 ± 5029
pull
Entries 86
Mean −88.95
Std Dev 0

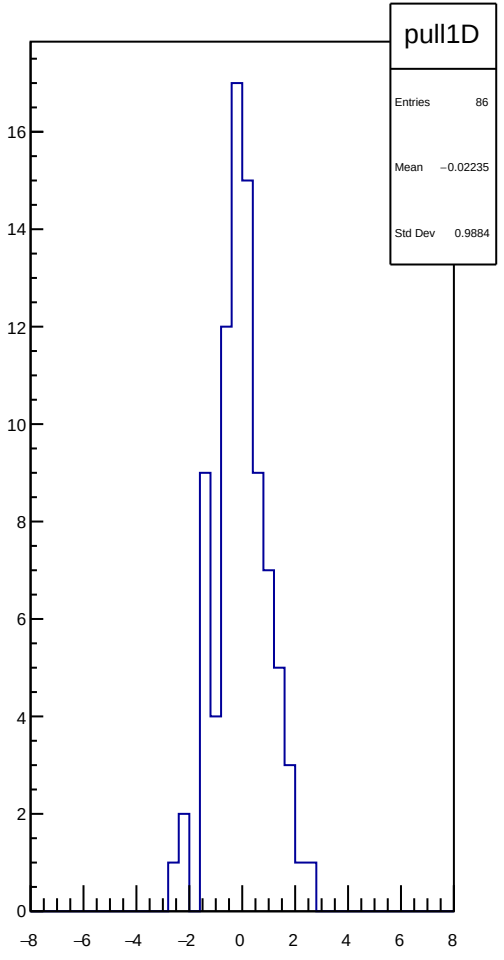

pull1D
Entries 86
Mean 0.02598
Std Dev 0.9481

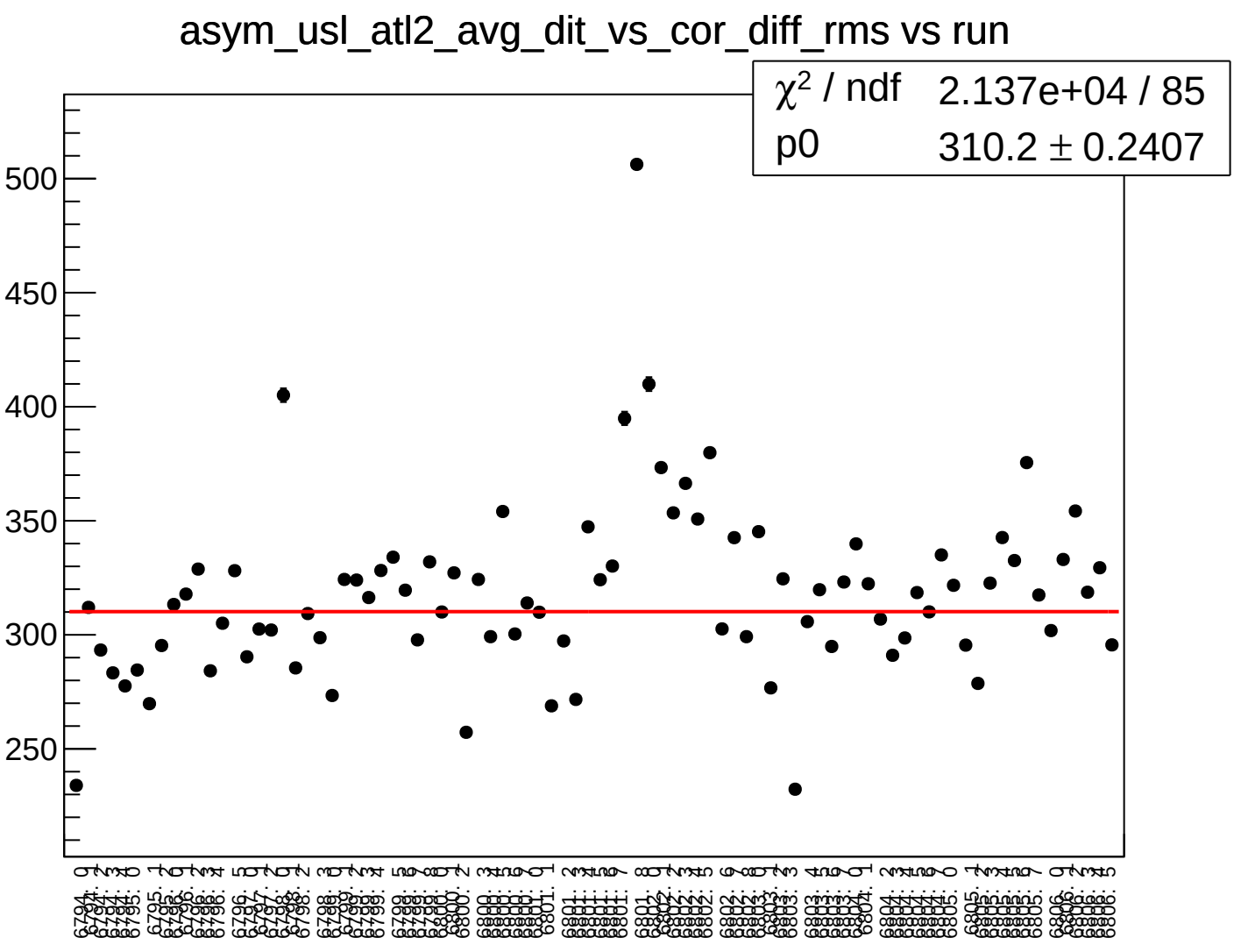

asym_usl_atl2_avg_rms vs run
χ² / ndf 3489 / 85
p0 4608 ± 3.556
5400
5200
5000
4800
4600
4400
4200

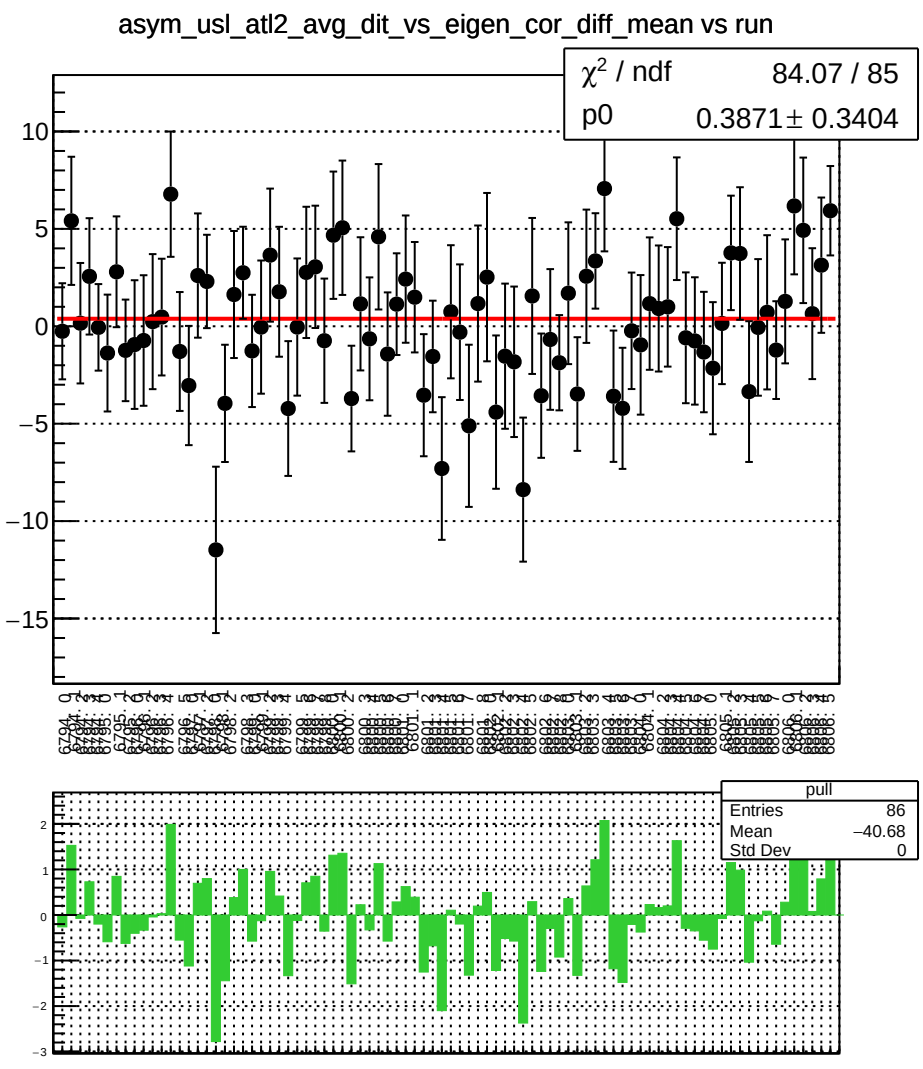

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.79 / 85
p0 −1.284e−13 ± 1.163e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 61.15
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.07175
Std Dev 0.885
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

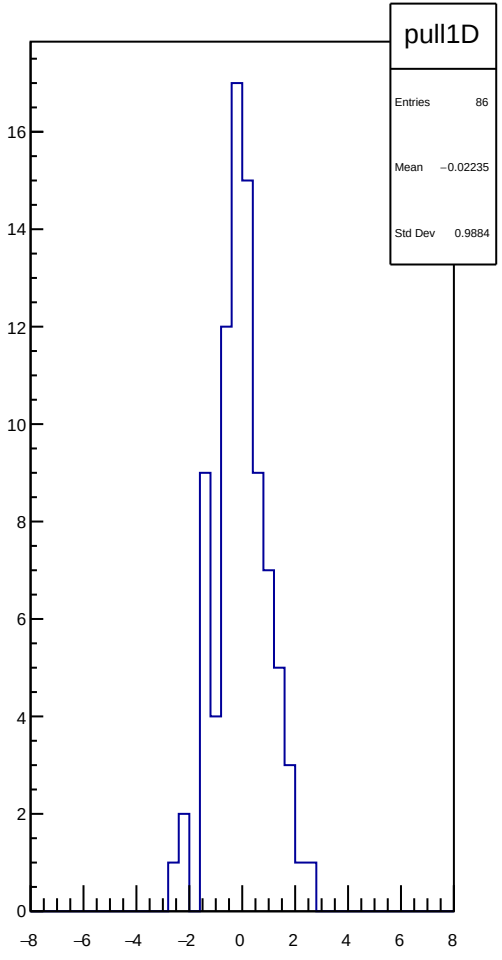

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.066e+06 / 85
p0 6.453e−11 ± 8.221e−14
1
0.8
0.6
0.4
0.2
0

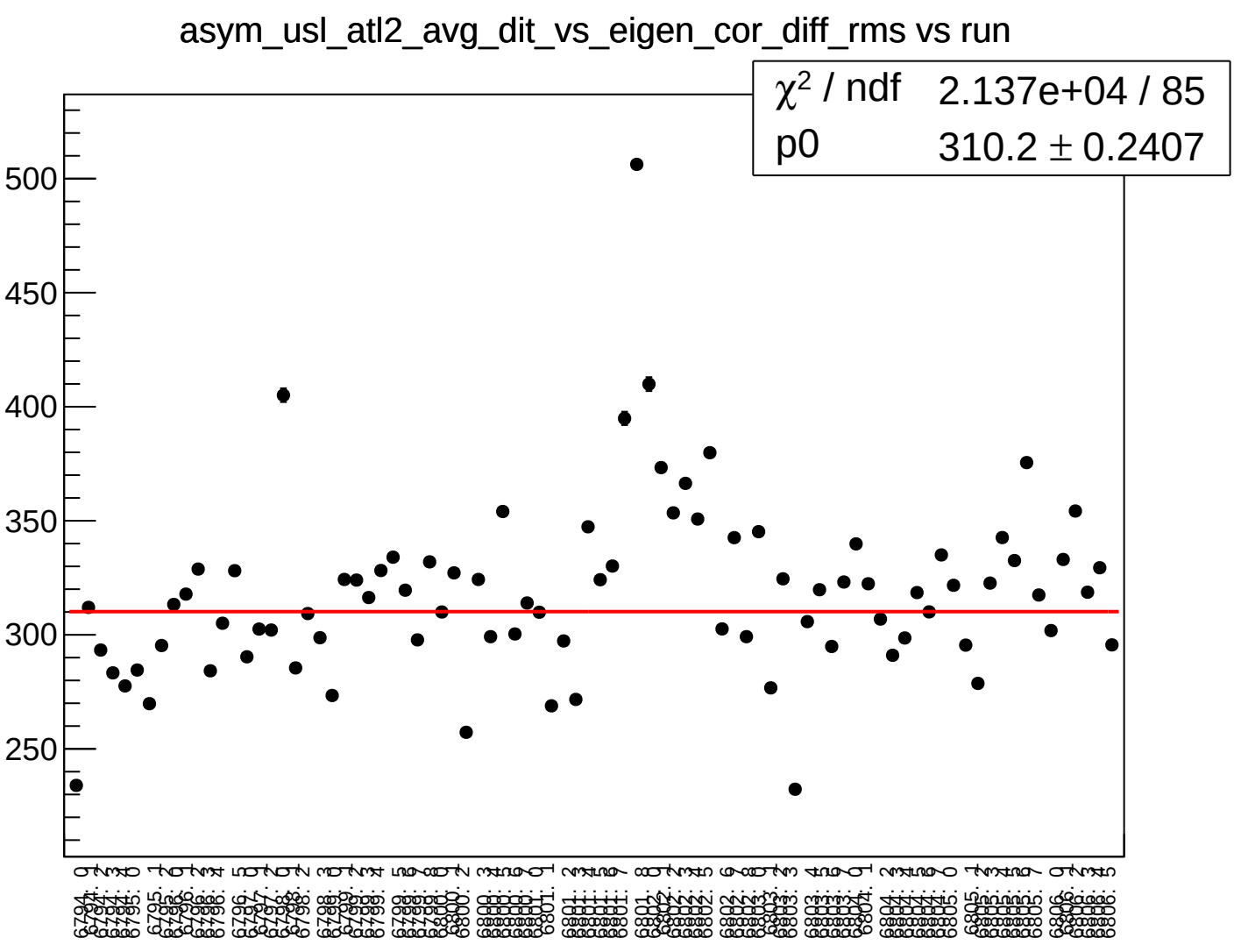

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 85
p0 0.3871± 0.3404
pull
Entries 86
Mean −40.68
Std Dev 0

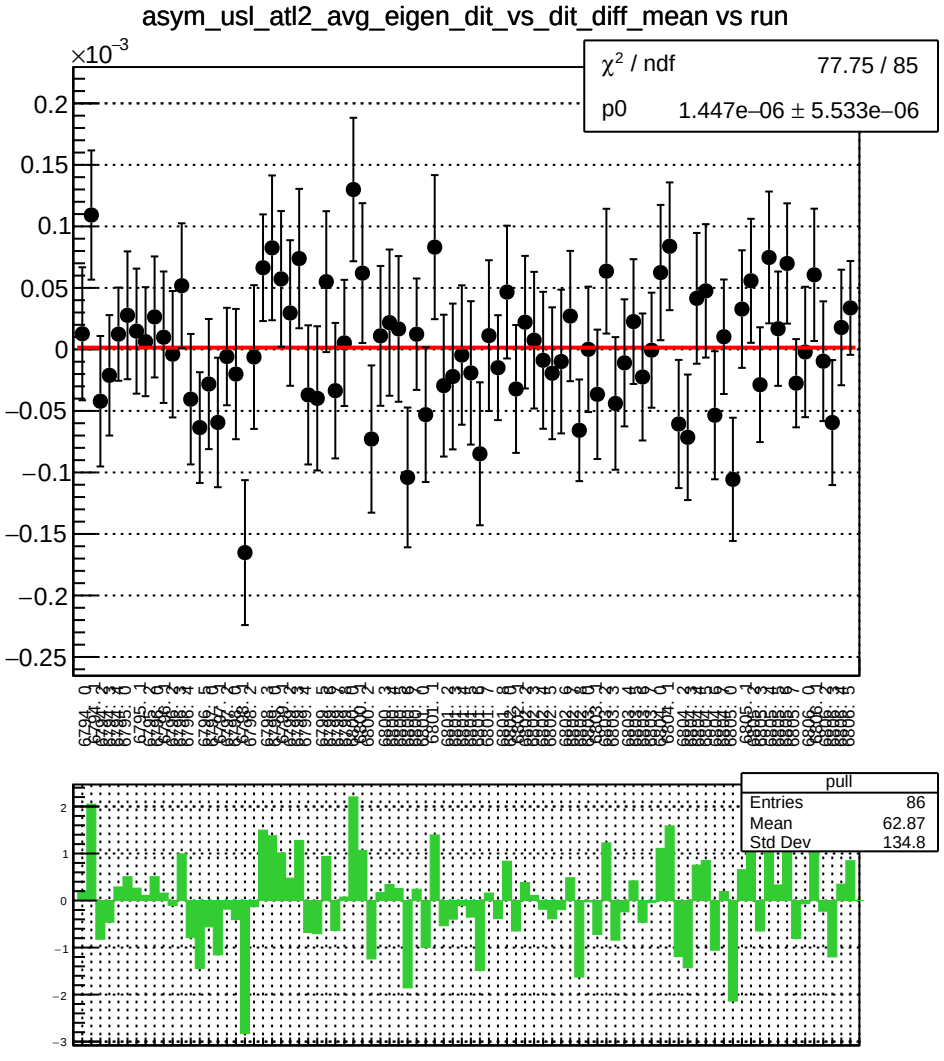

pull1D
Entries 86
Mean −0.02235
Std Dev 0.9884

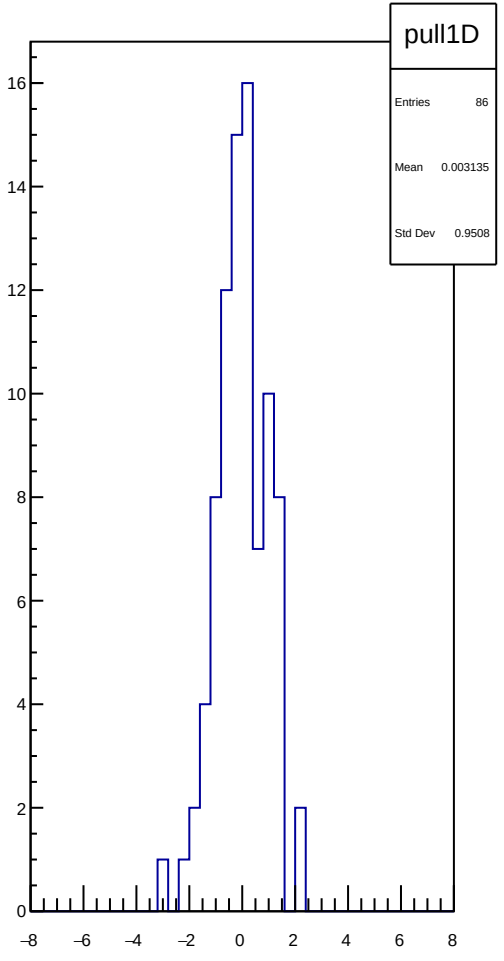

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 85
p0 310.2 ± 0.2407
500
450
400
350
300
250

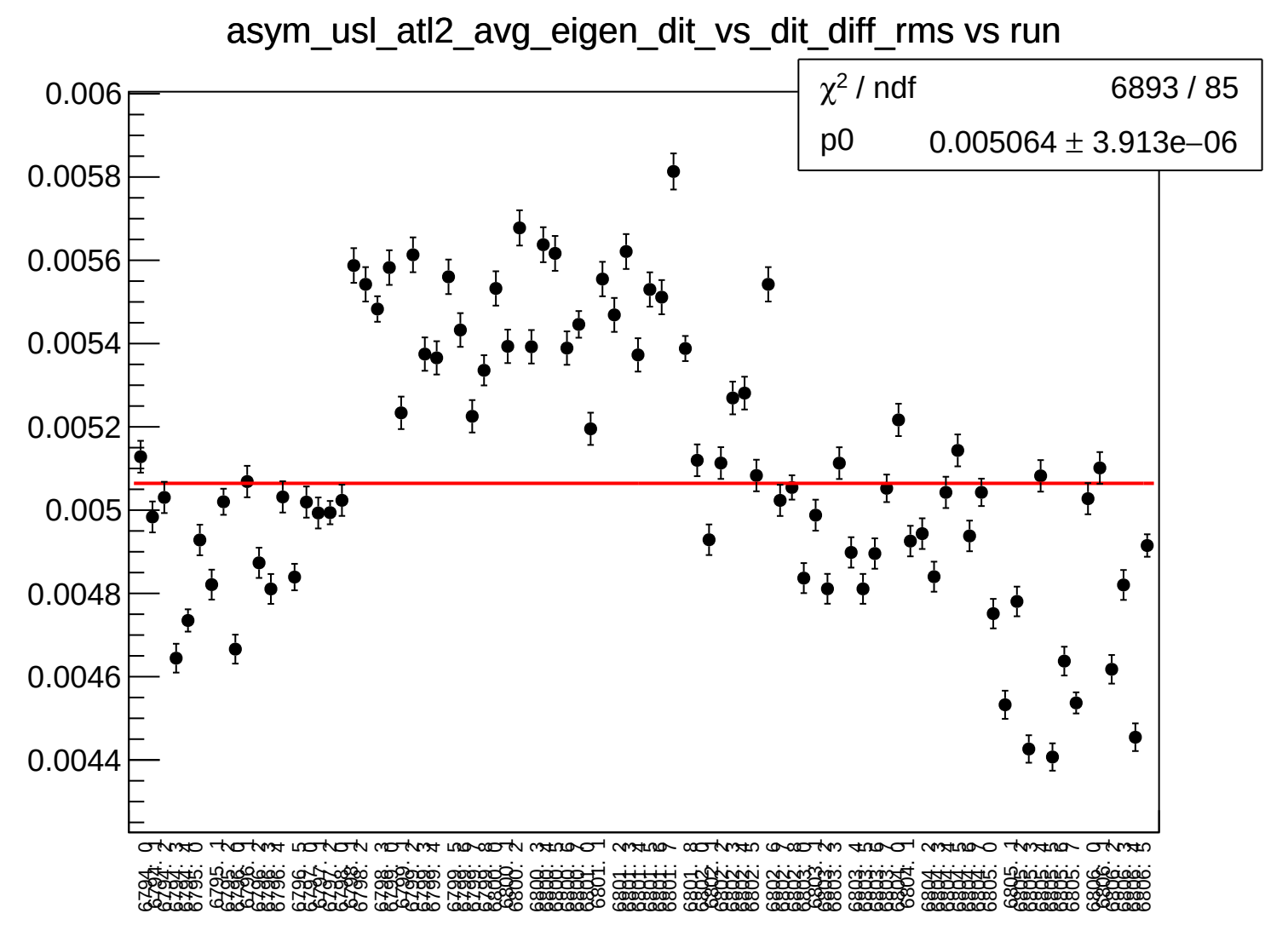

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.07 / 85
p0 0.3871± 0.3404
pull
Entries 86
Mean −40.68
Std Dev 0

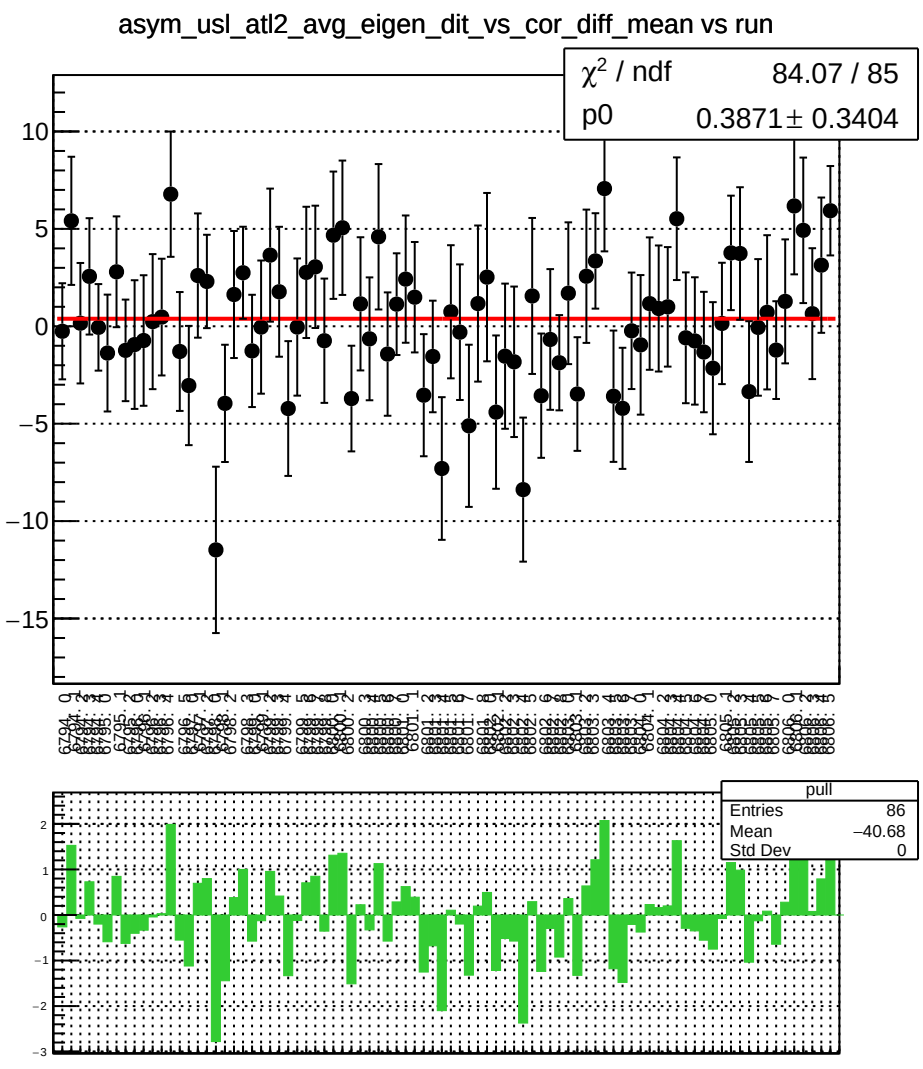

pull1D
Entries 86
Mean −0.02235
Std Dev 0.9884

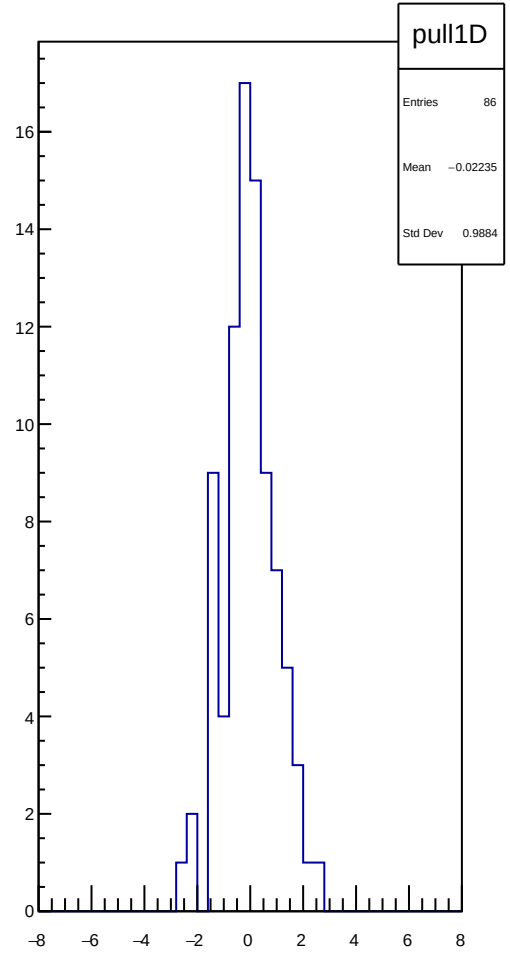

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 85
p0 310.2 ± 0.2407
500
450
400
350
300
250

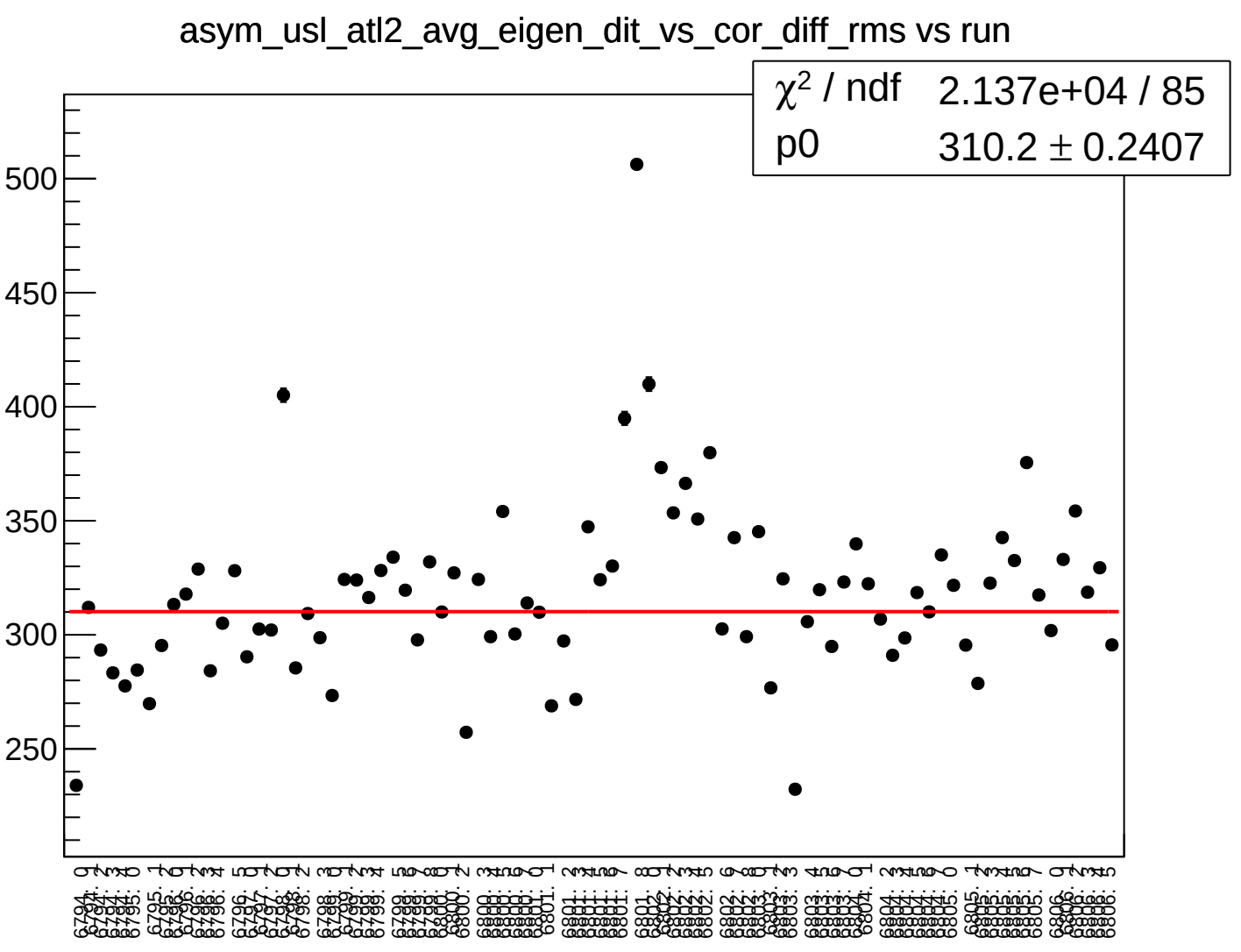

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.75 / 85
p0 1.447e−06 ± 5.533e−06
pull
Entries 86
Mean 62.87
Std Dev 134.8

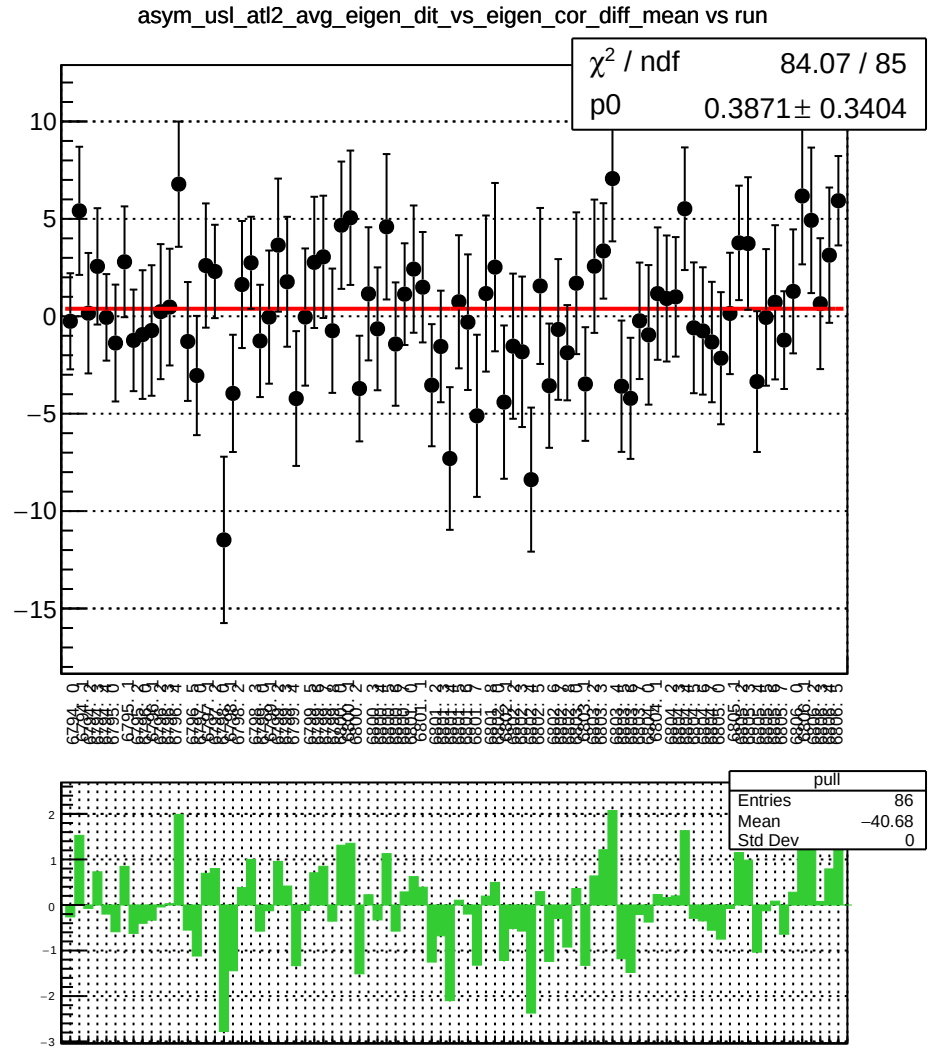

pull1D
Entries 86
Mean 0.003135
Std Dev 0.9508

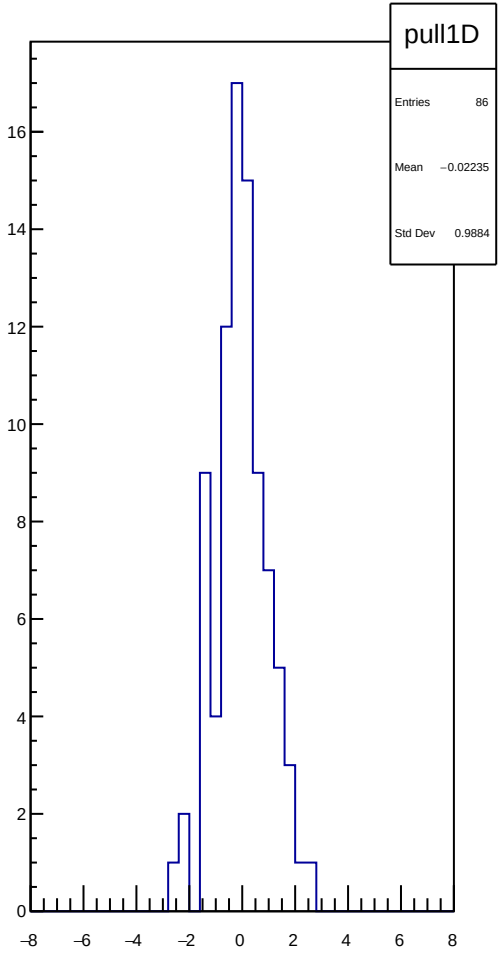

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6893 / 85
p0 0.005064 ± 3.913e−06
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

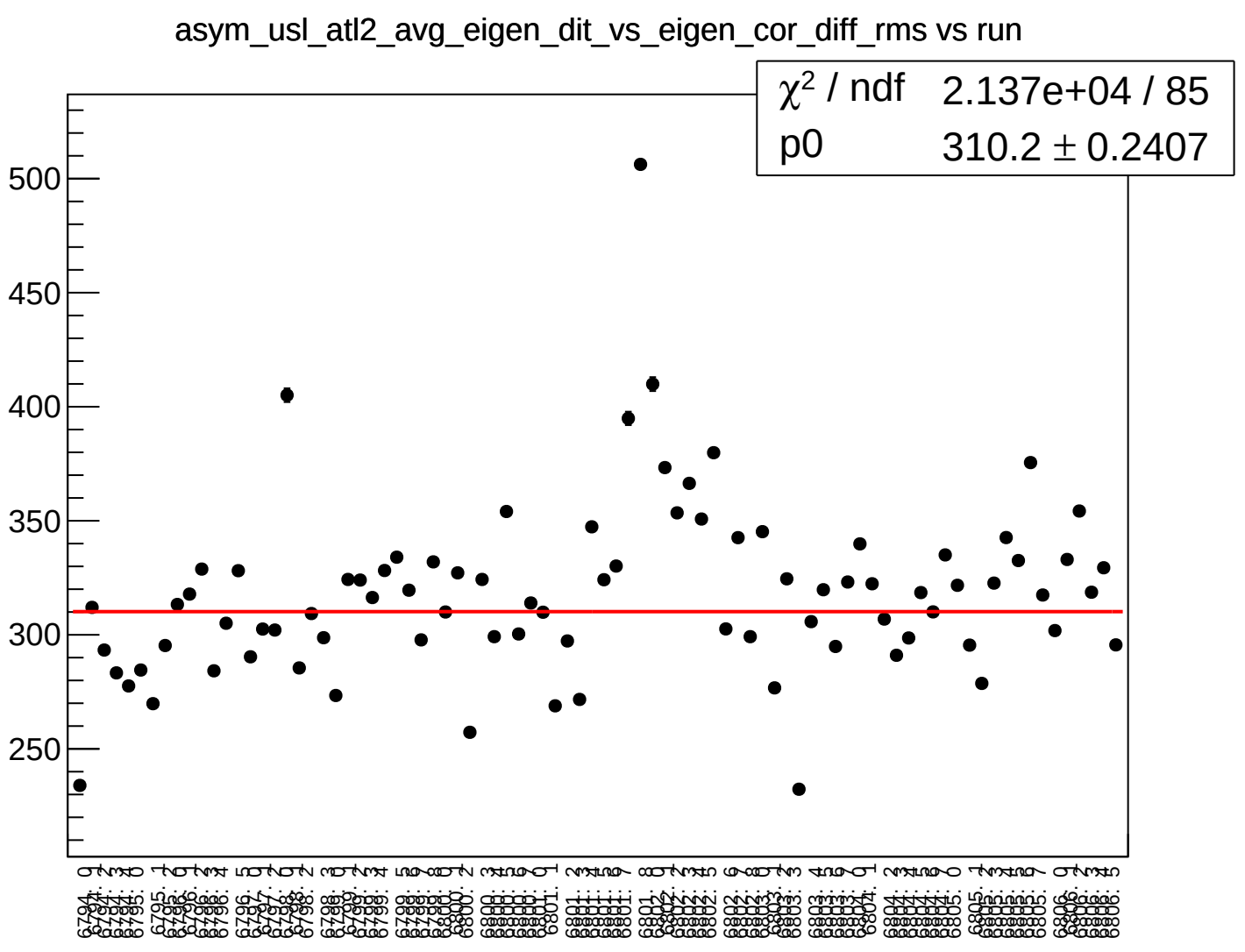

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.07 / 85
p0 0.3871± 0.3404
pull
Entries 86
Mean −40.68
Std Dev 0

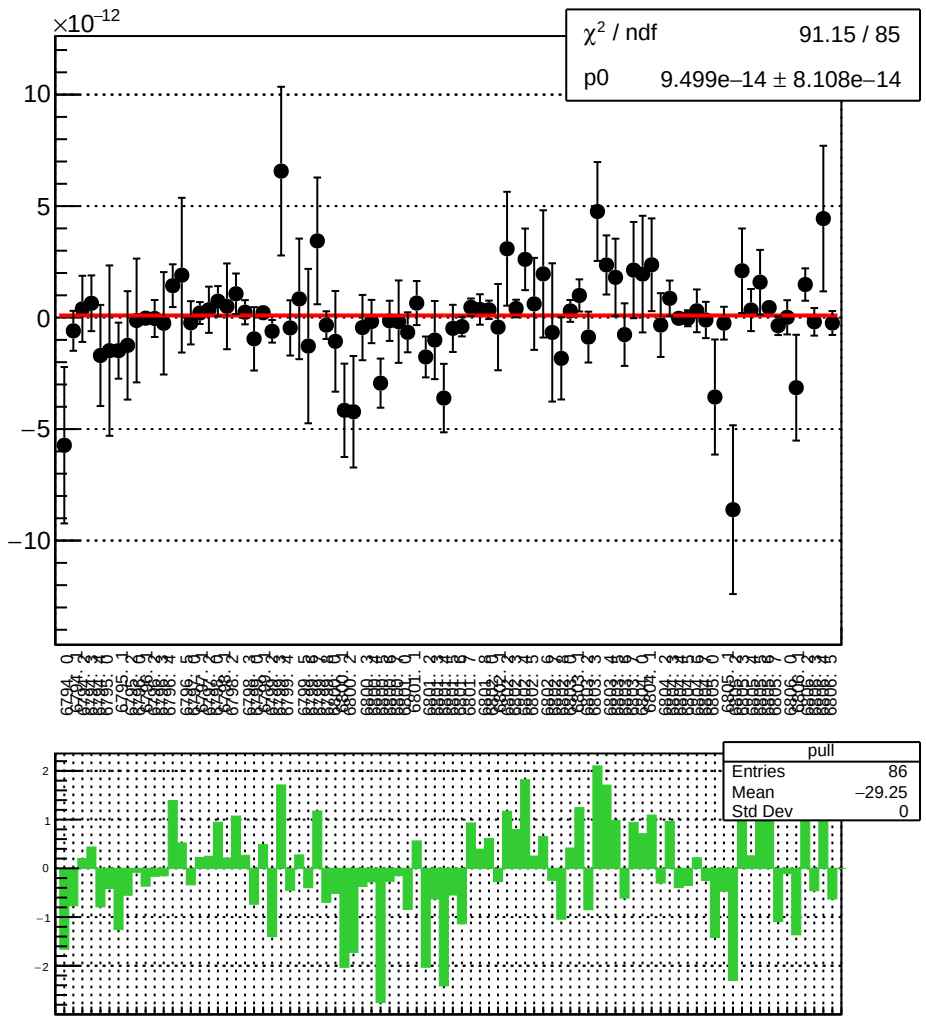

pull1D
Entries 86
Mean −0.02235
Std Dev 0.9884

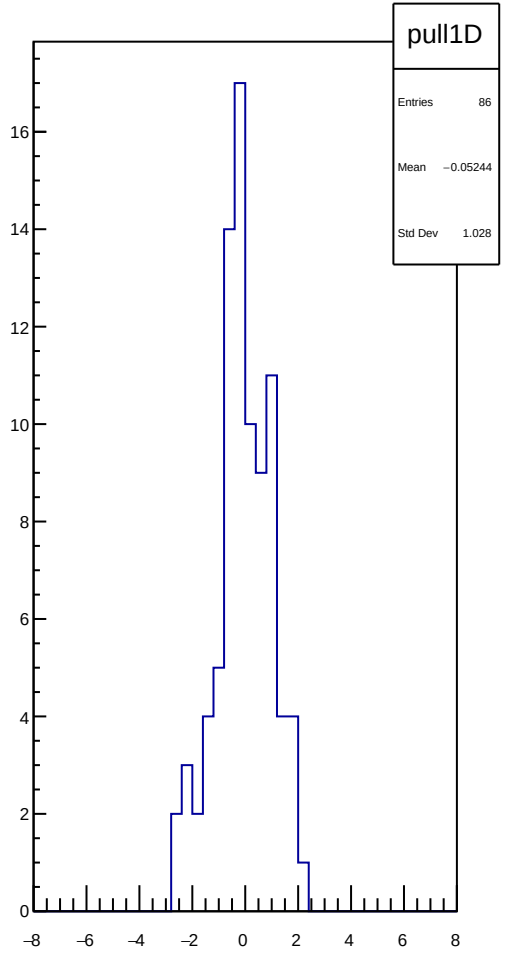

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 85
p0 310.2 ± 0.2407
500
450
400
350
300
250

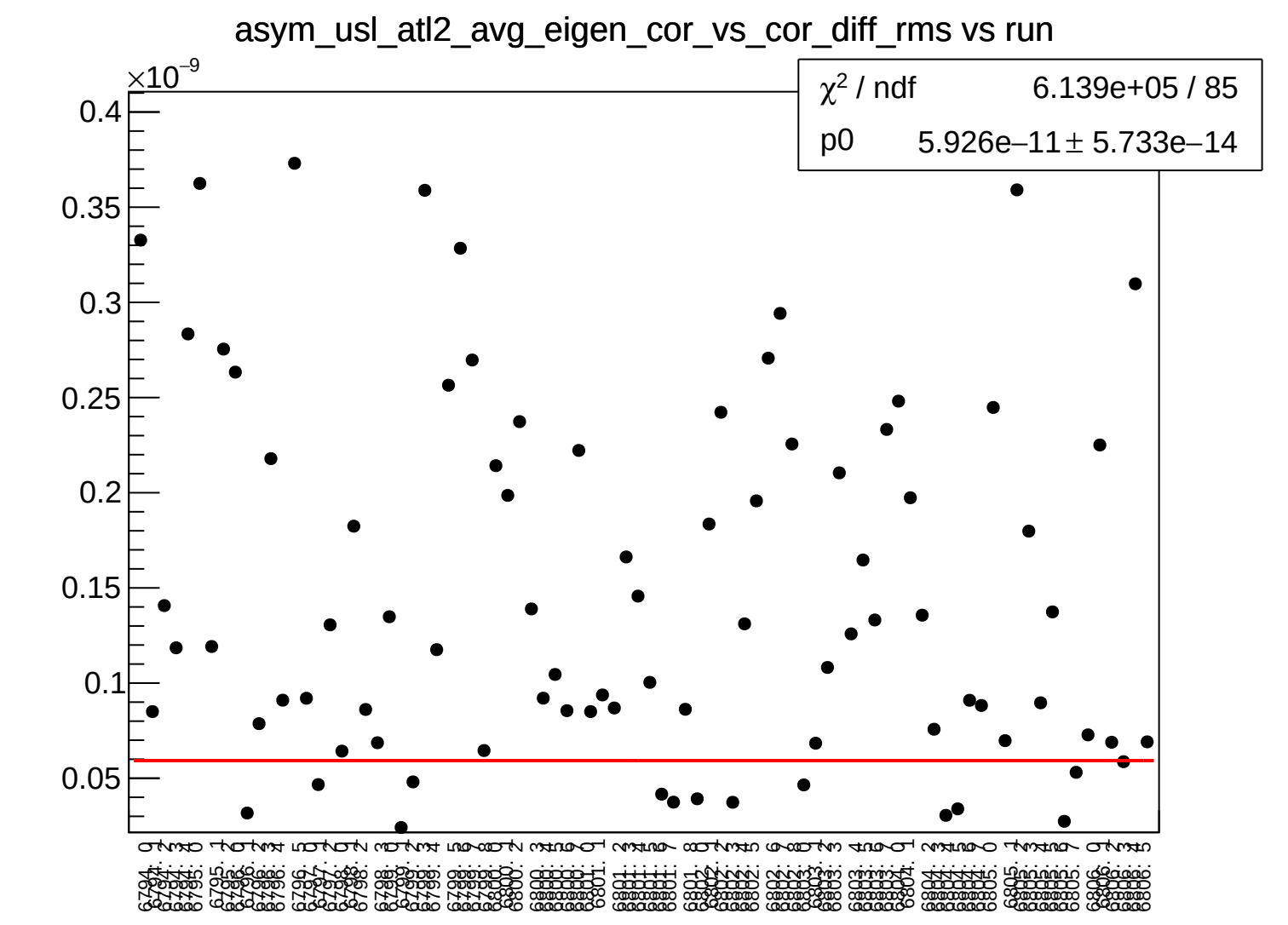

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.07 / 85
p0 0.3871± 0.3404
pull
Entries 86
Mean −40.68
Std Dev 0

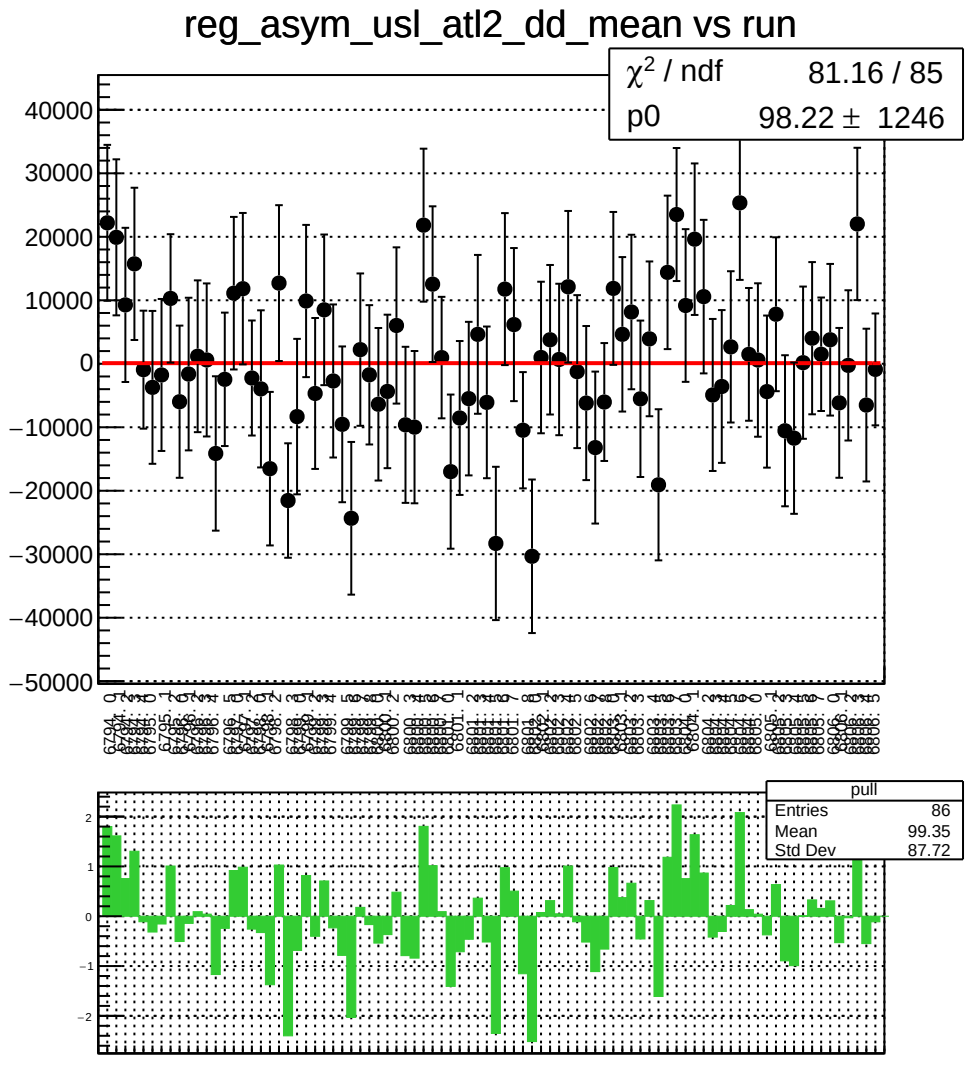

pull1D
Entries 86
Mean −0.02235
Std Dev 0.9884

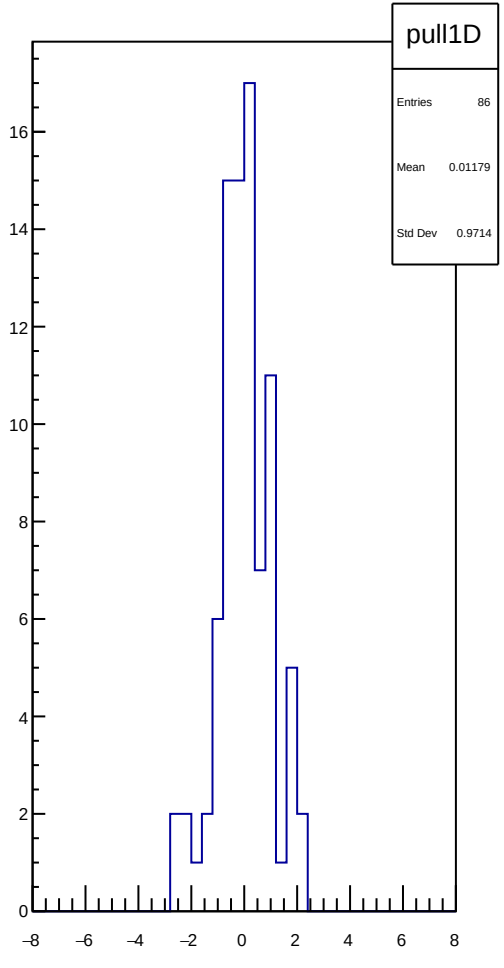

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.137e+04 / 85
p0 310.2 ± 0.2407
500
450
400
350
300
250

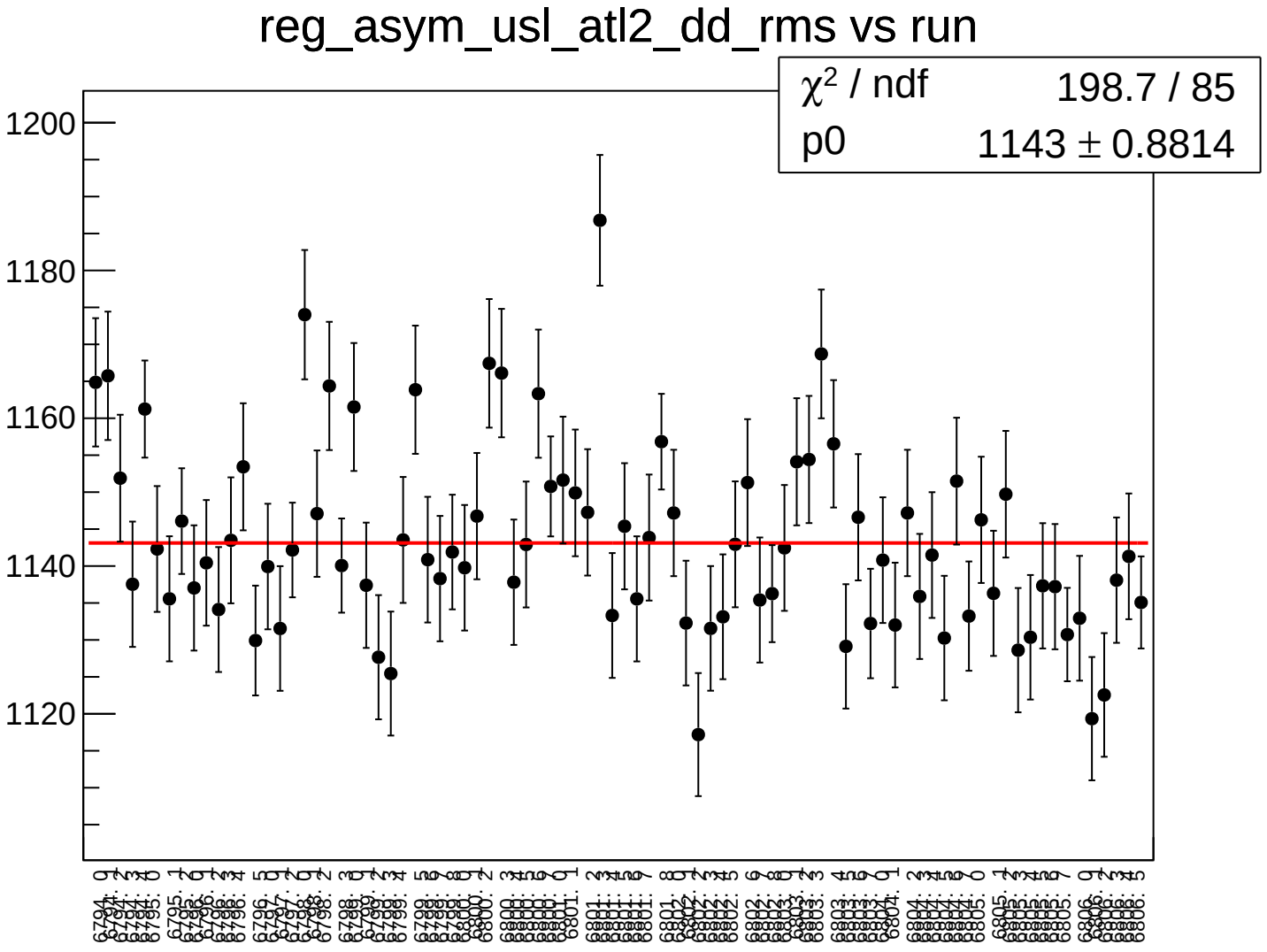

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.15 / 85
p0 9.499e−14 ± 8.108e−14
10
5
0
−5
−10
pull
Entries 86
Mean −29.25
Std Dev 0
2
1
0
−1
−2

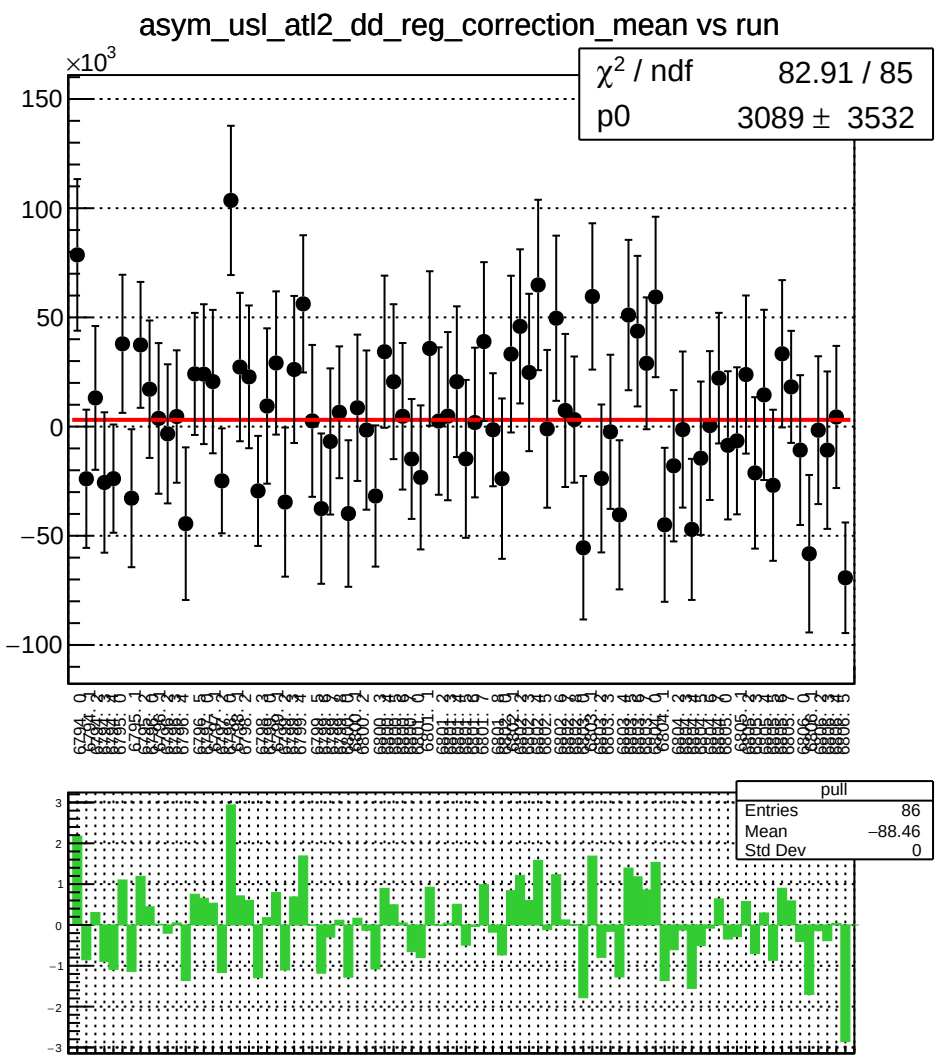

pull1D
Entries 86
Mean −0.05244
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

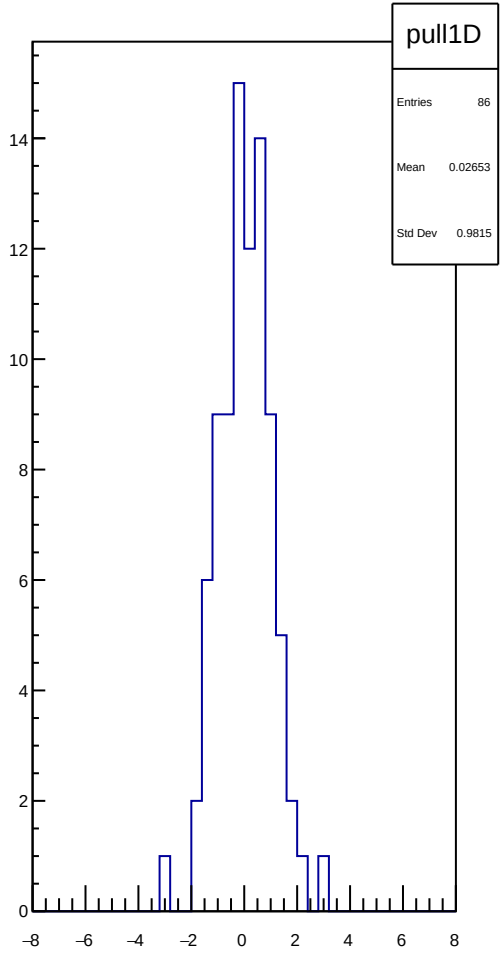

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.139e+05 / 85
p0 5.926e−11 ± 5.733e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

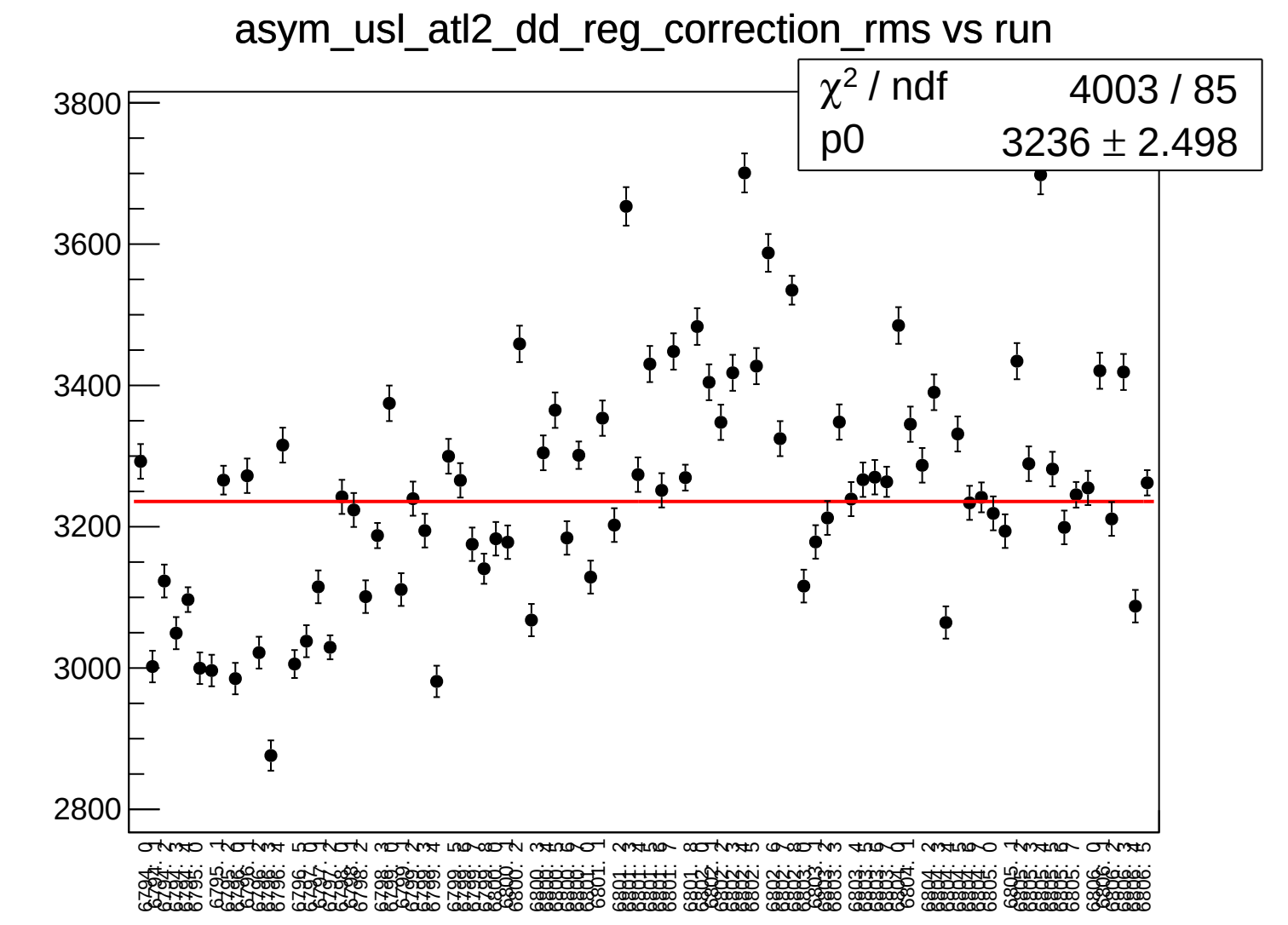

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.16 / 85
p0 98.22 ± 1246
pull
Entries 86
Mean 99.35
Std Dev 87.72

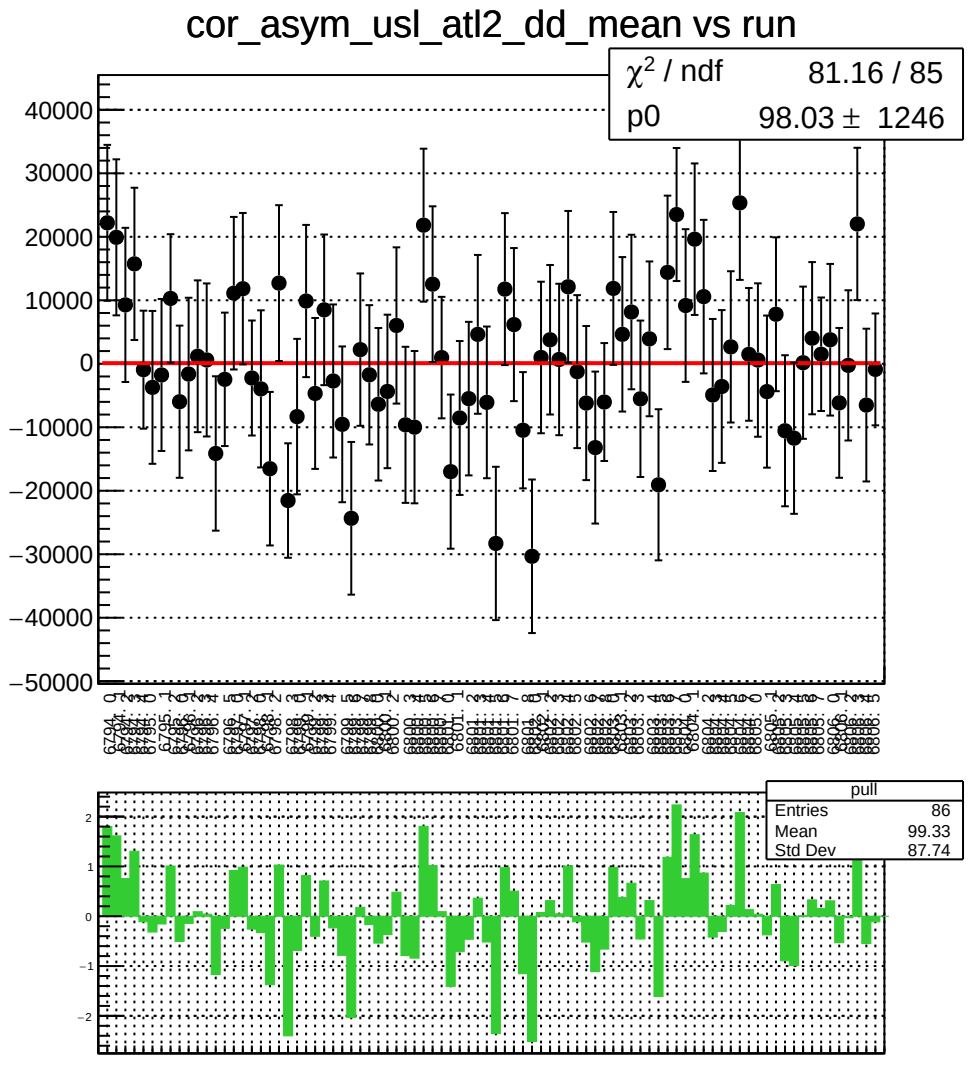

pull1D
Entries 86
Mean 0.01179
Std Dev 0.9714

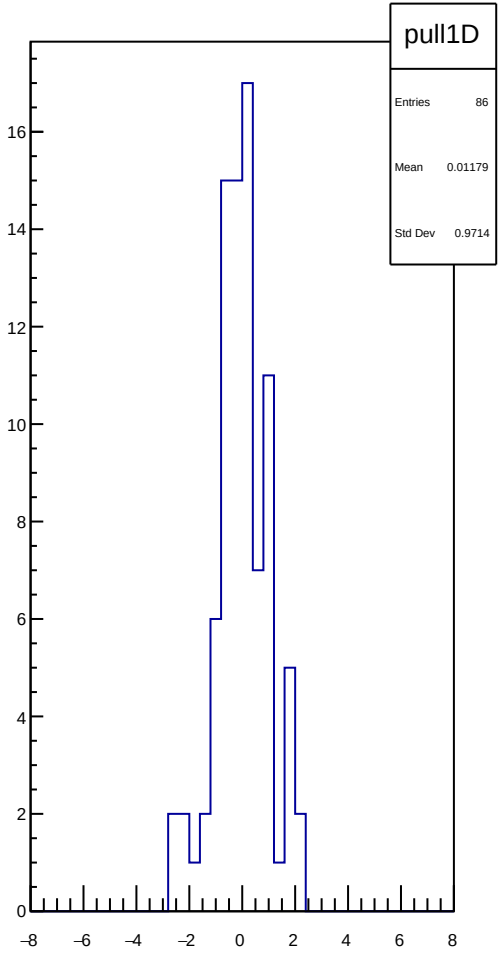

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 198.7 / 85
p0 1143 ± 0.8814
1200
1180
1160
1140
1120

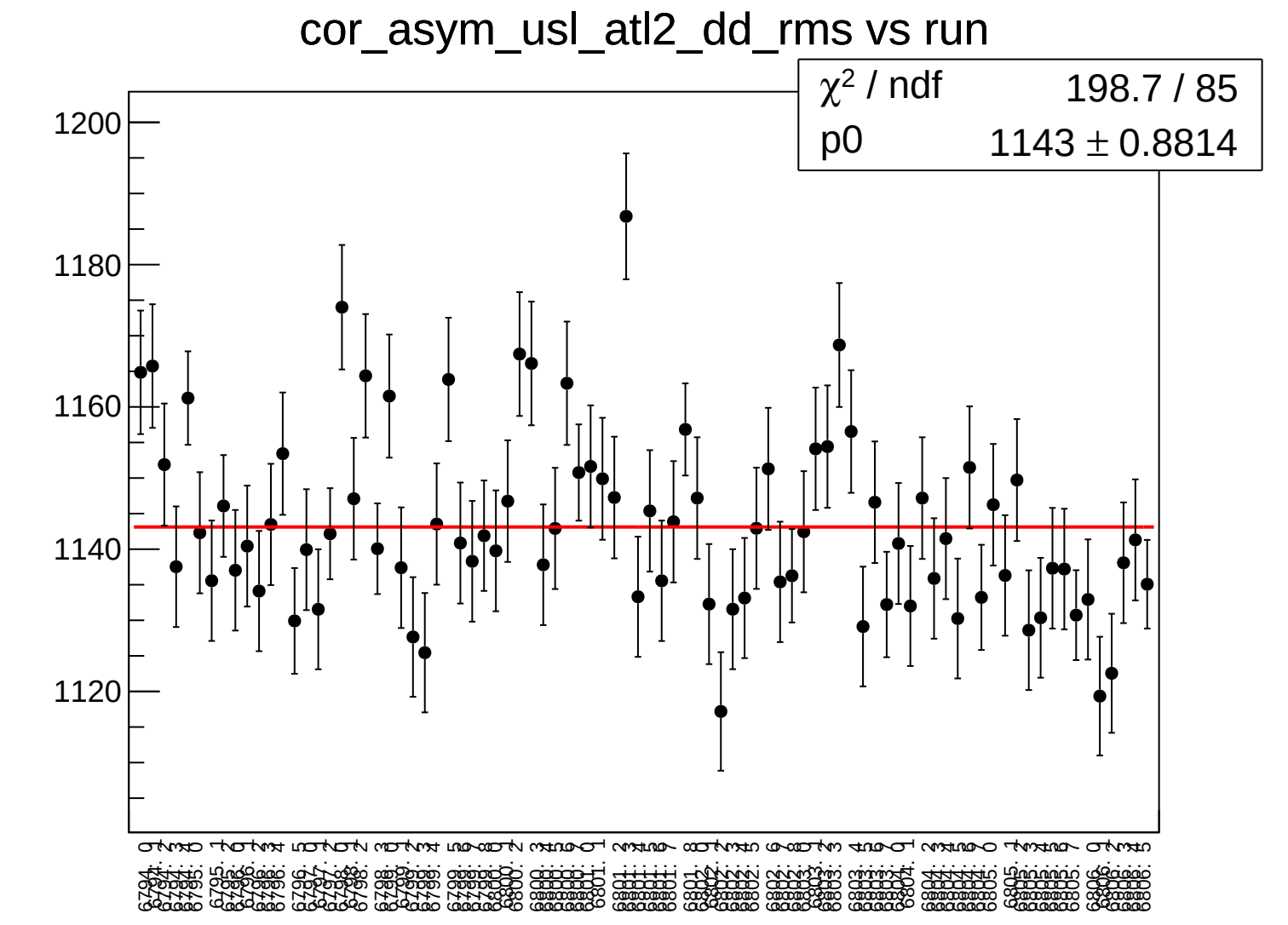

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 82.91 / 85
p0 3089 ± 3532
150
100
50
0
−50
−100
pull
Entries 86
Mean −88.46
Std Dev 0
3
2
1
0
−1
−2
−3

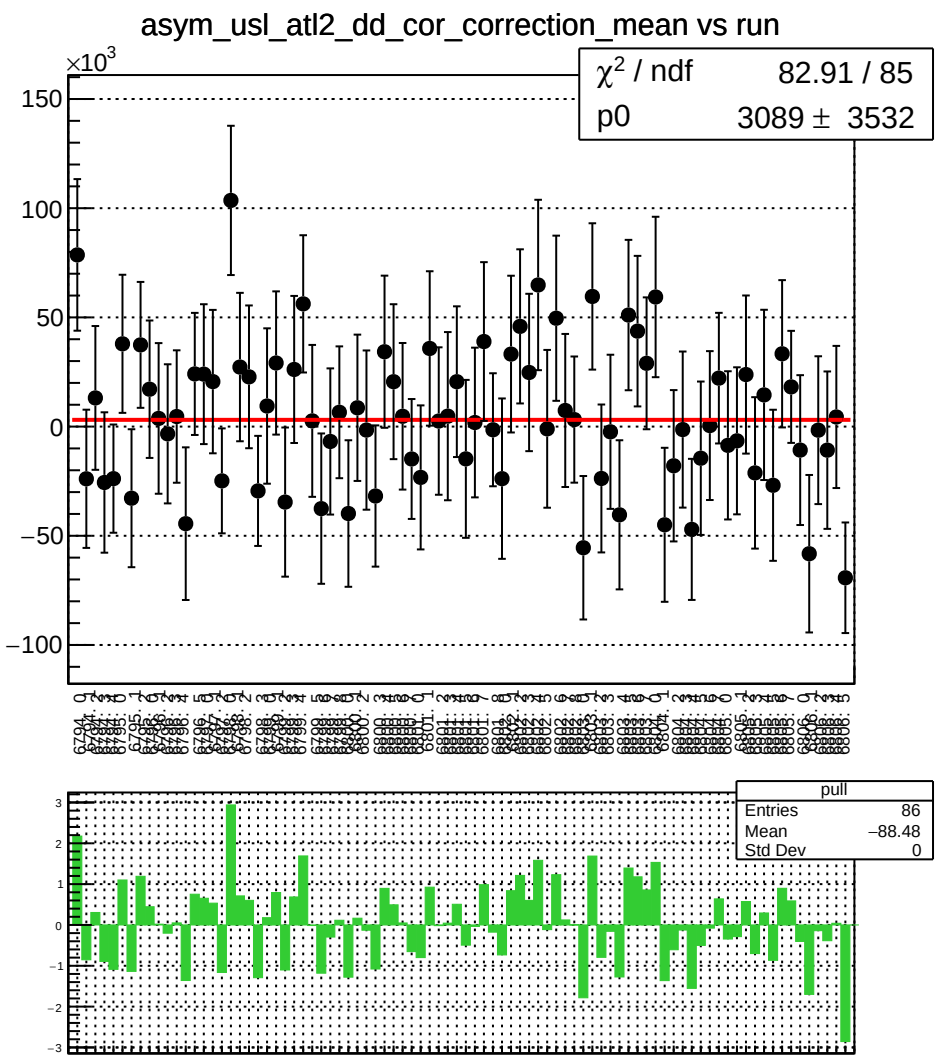

pull1D
Entries 86
Mean 0.02653
Std Dev 0.9815
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

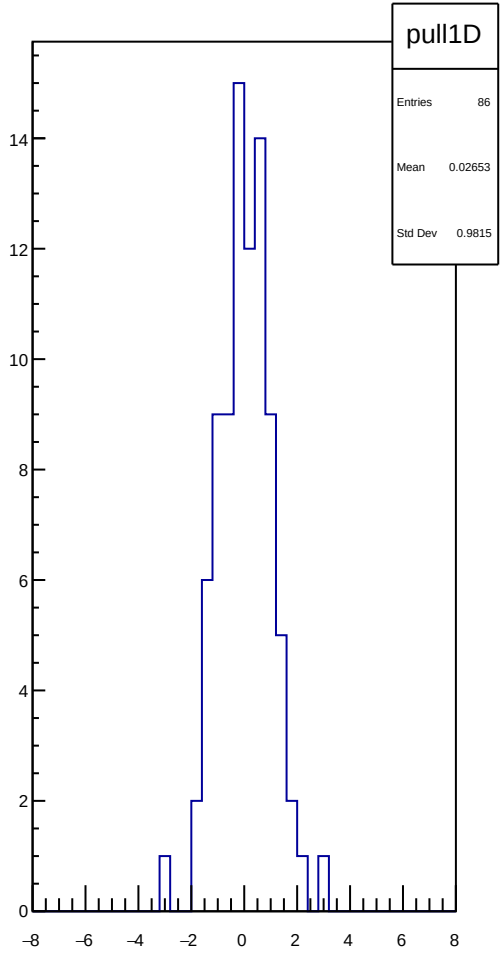

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 4003 / 85
p0 3236 ± 2.498
3800
3600
3400
3200
3000
2800

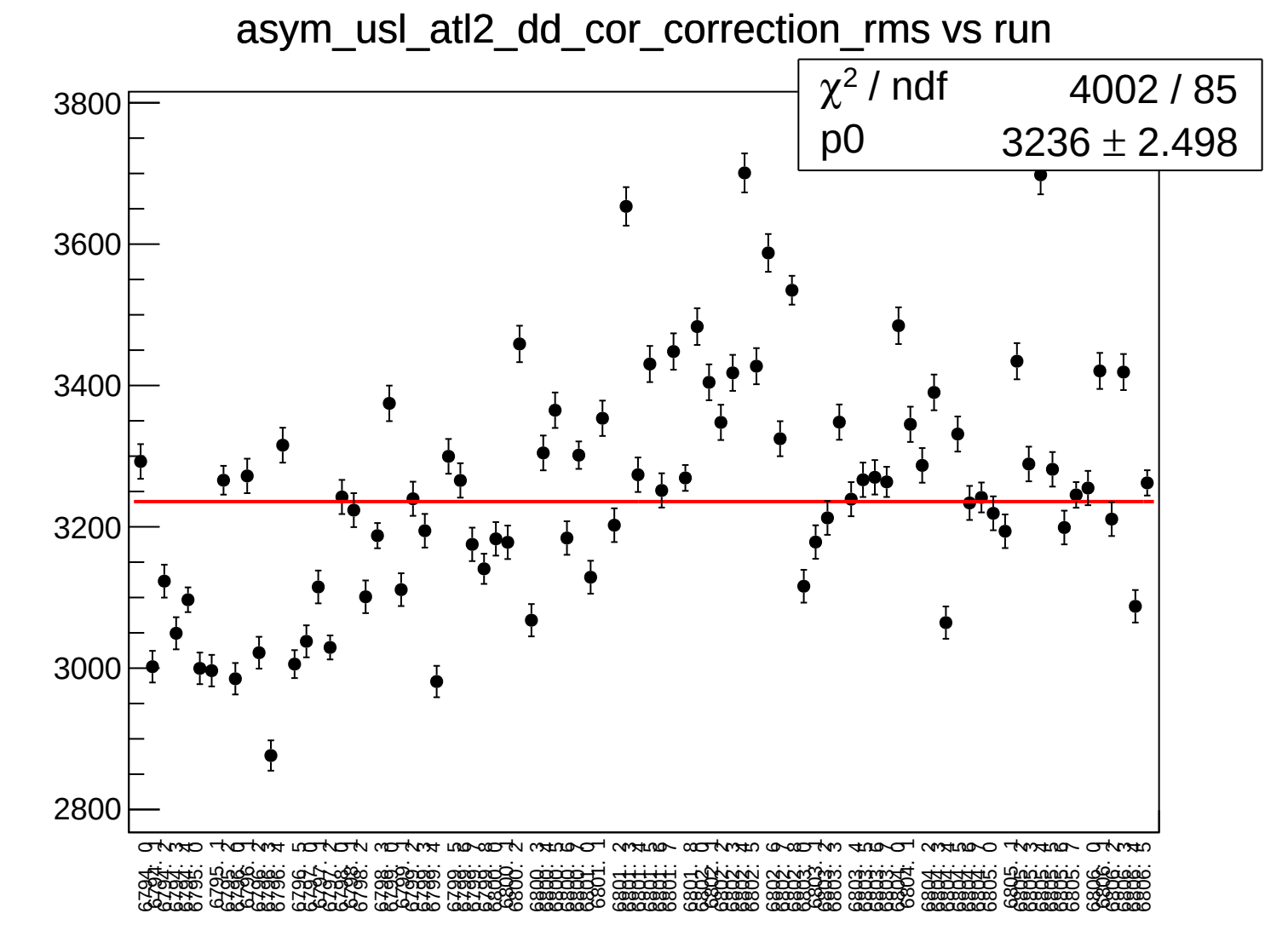

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.16 / 85
p0 98.03 ± 1246
pull
Entries 86
Mean 99.33
Std Dev 87.74

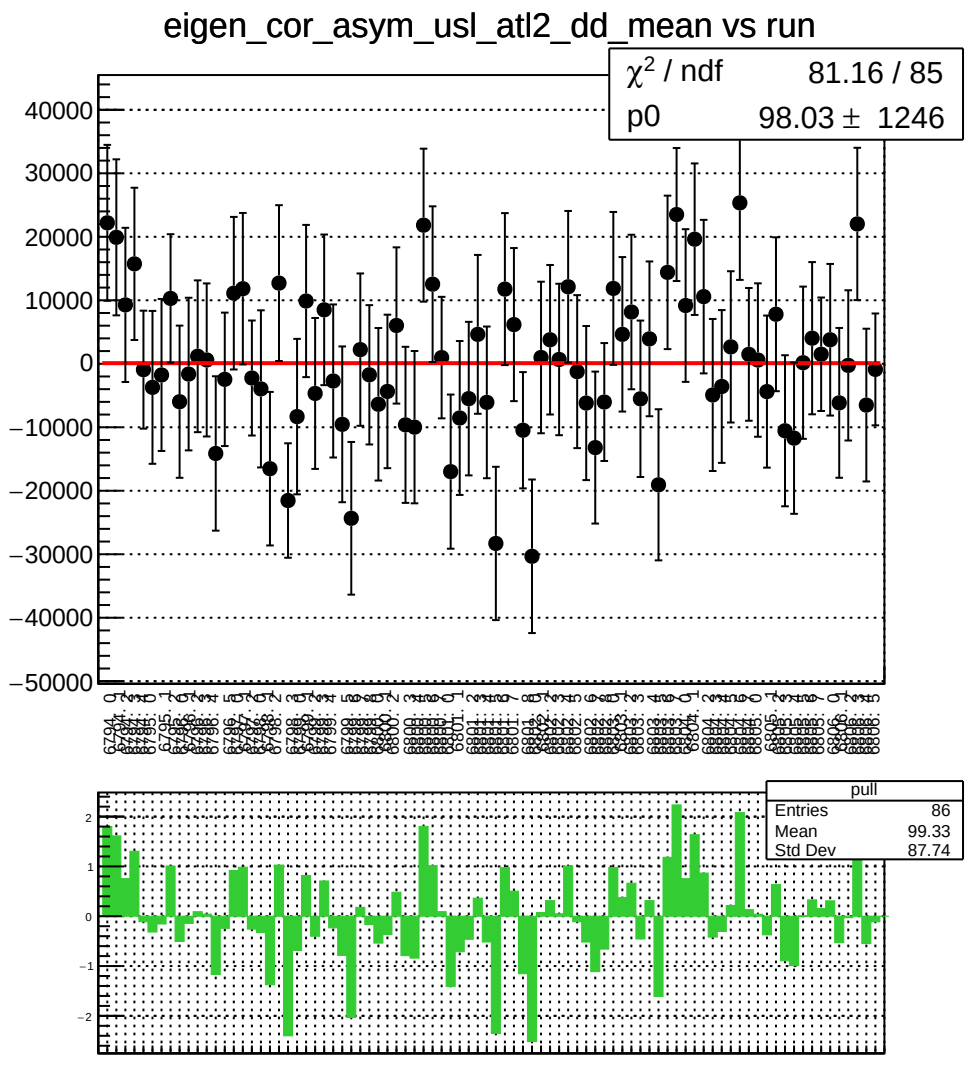

pull1D
Entries 86
Mean 0.01179
Std Dev 0.9714

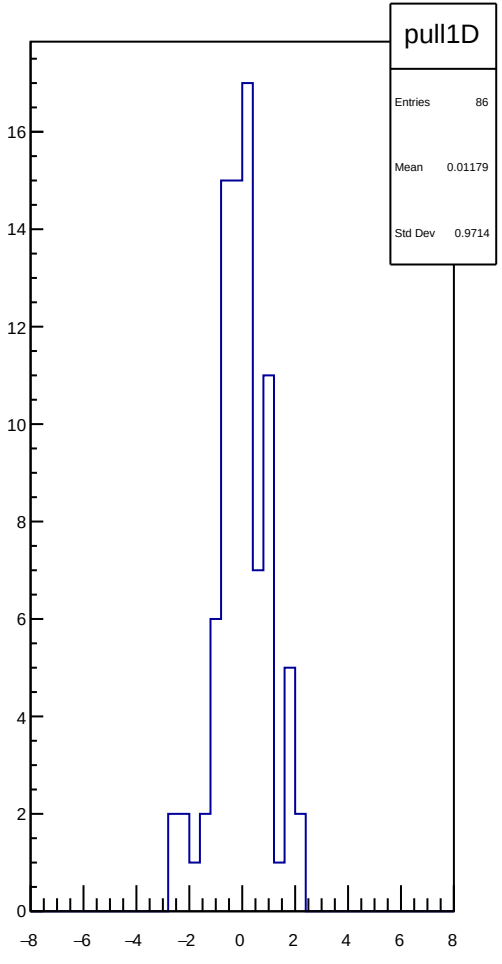

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 198.7 / 85
p0 1143 ± 0.8814
1200
1180
1160
1140
1120

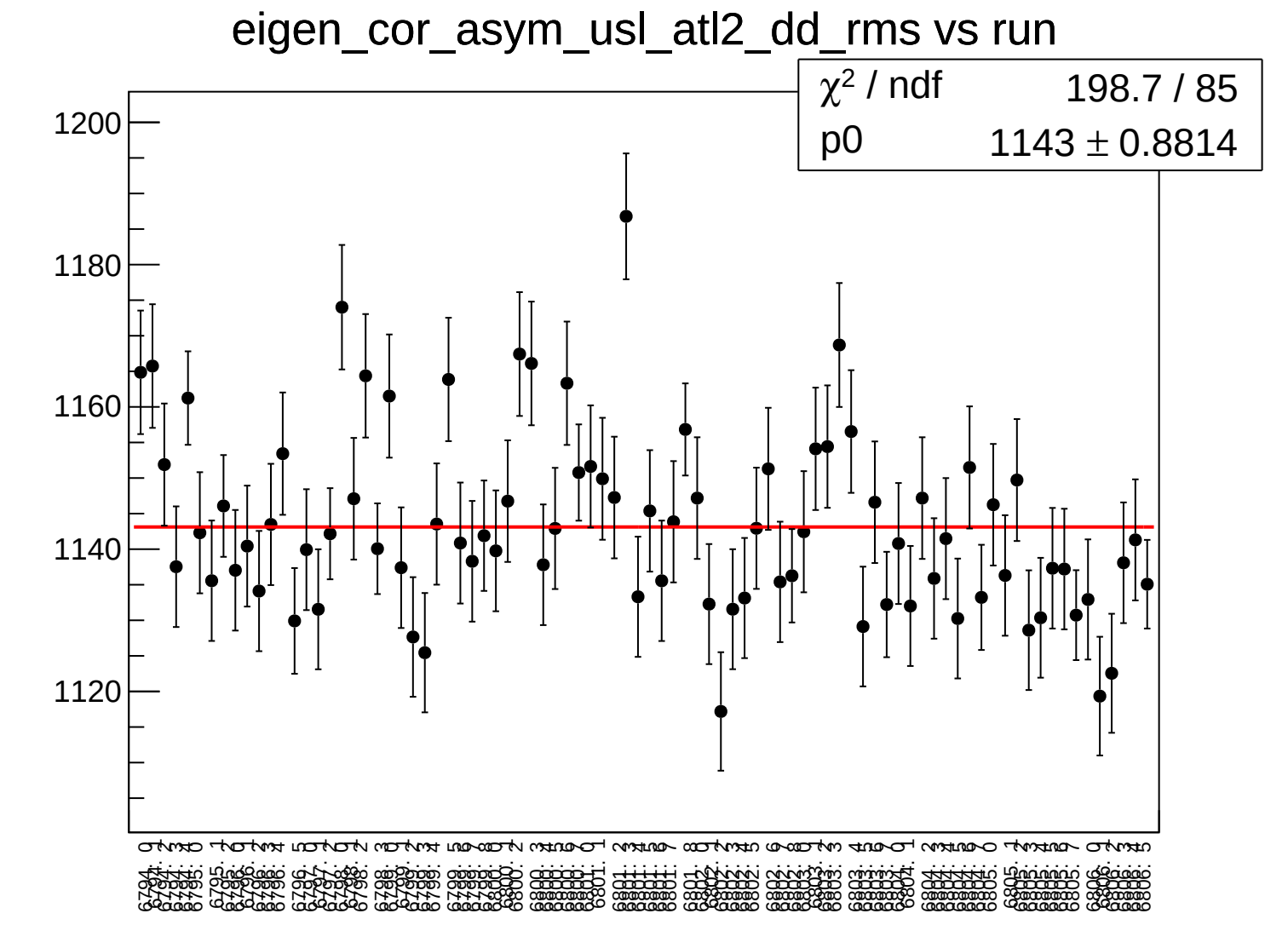

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.91 / 85
p0 3089 ± 3532
150
100
50
0
−50
−100
pull
Entries 86
Mean −88.48
Std Dev 0
3
2
1
0
−1
−2
−3

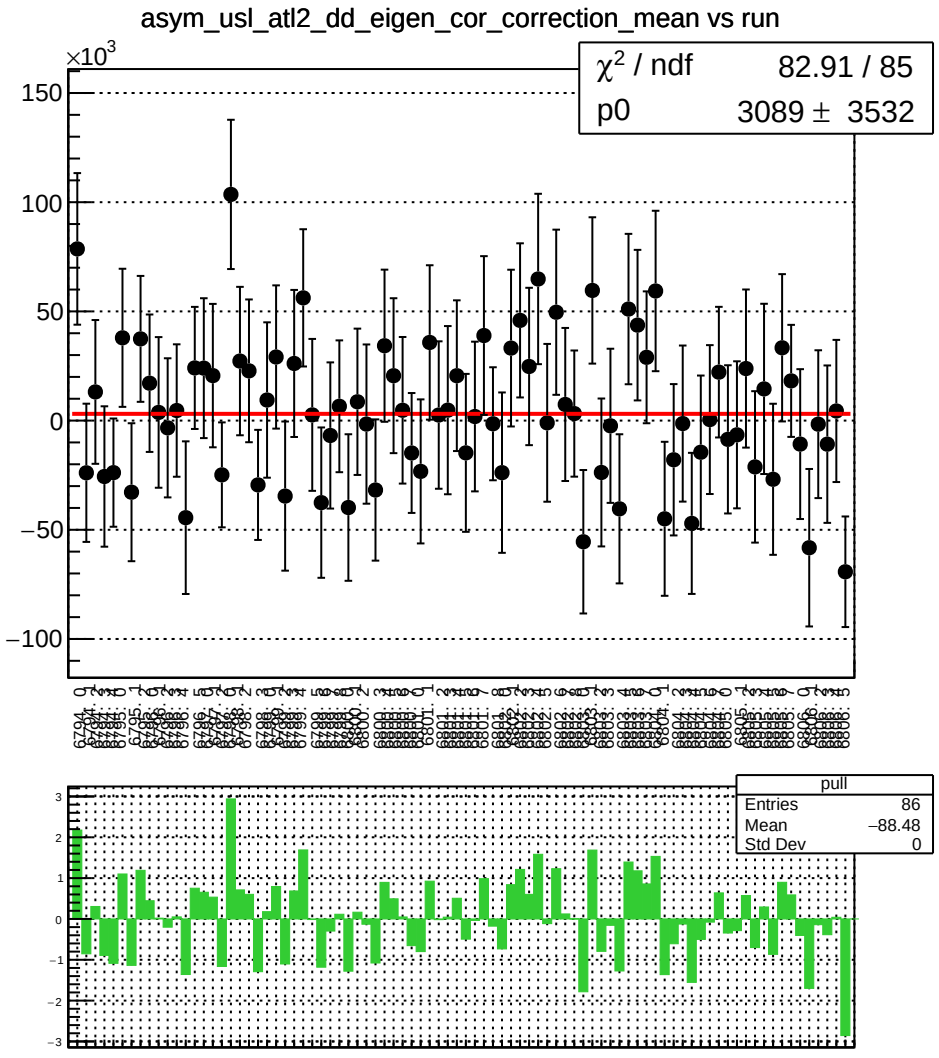

pull1D
Entries 86
Mean 0.02653
Std Dev 0.9815
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

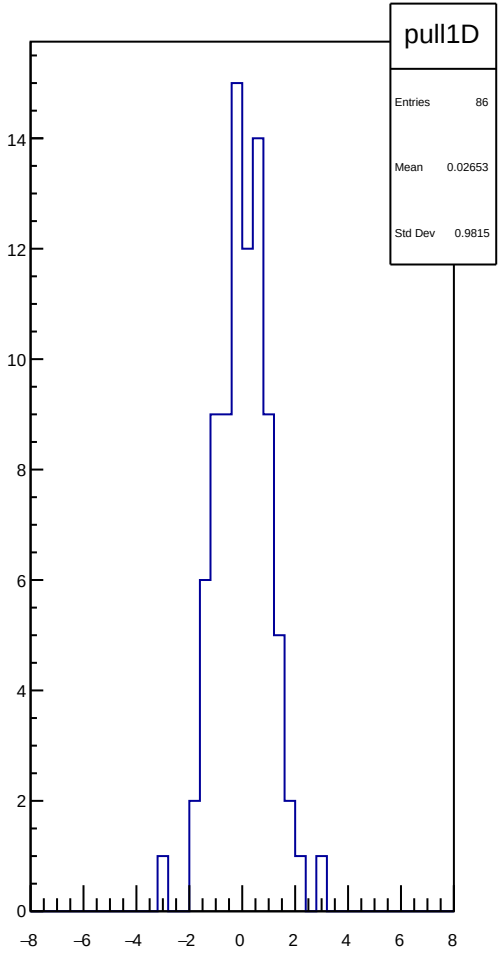

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 4002 / 85
p0 3236 ± 2.498
3800
3600
3400
3200
3000
2800

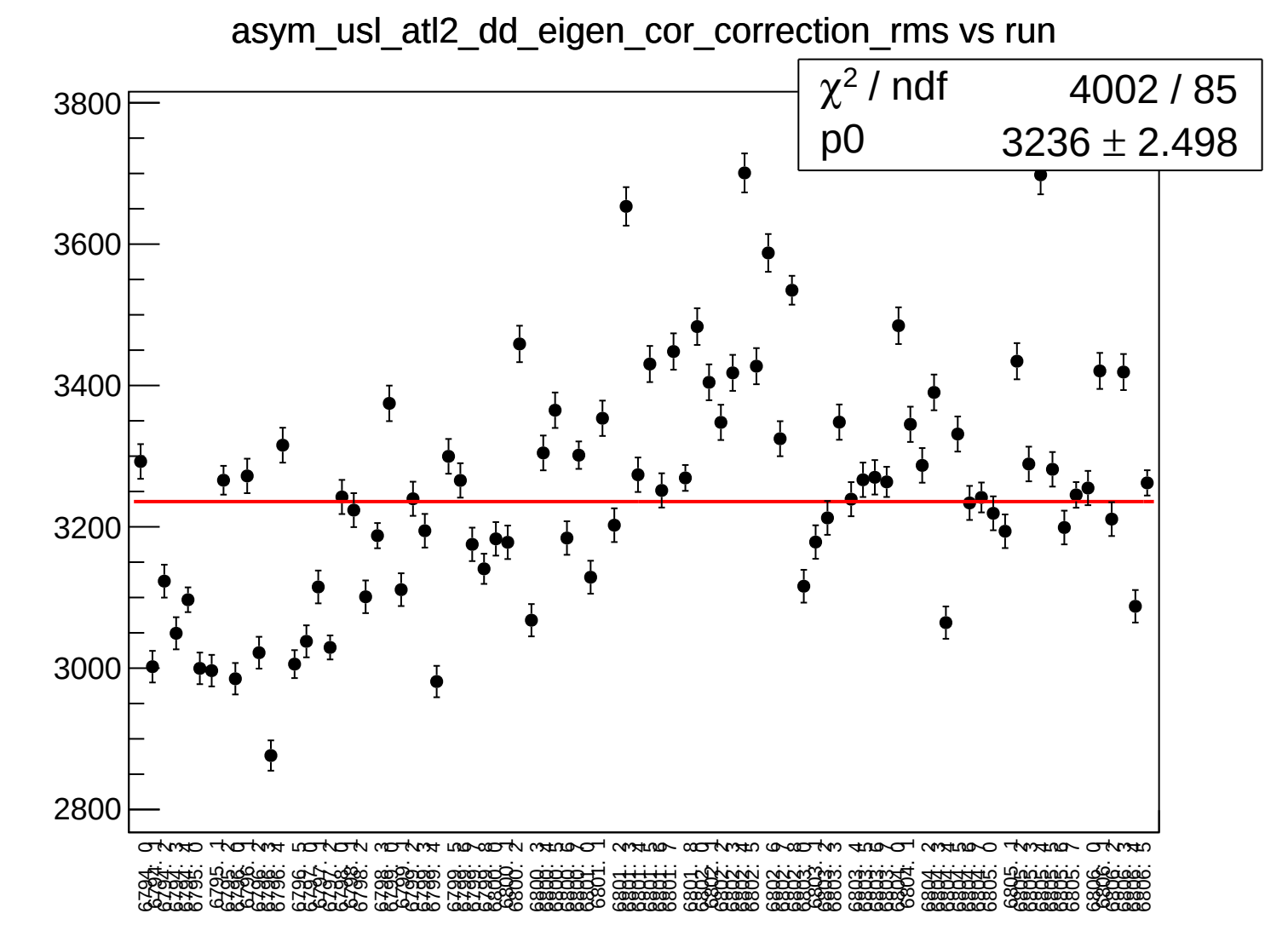

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 81.16 / 85
p0 98.03 ± 1246
pull
Entries 86
Mean 99.33
Std Dev 87.74

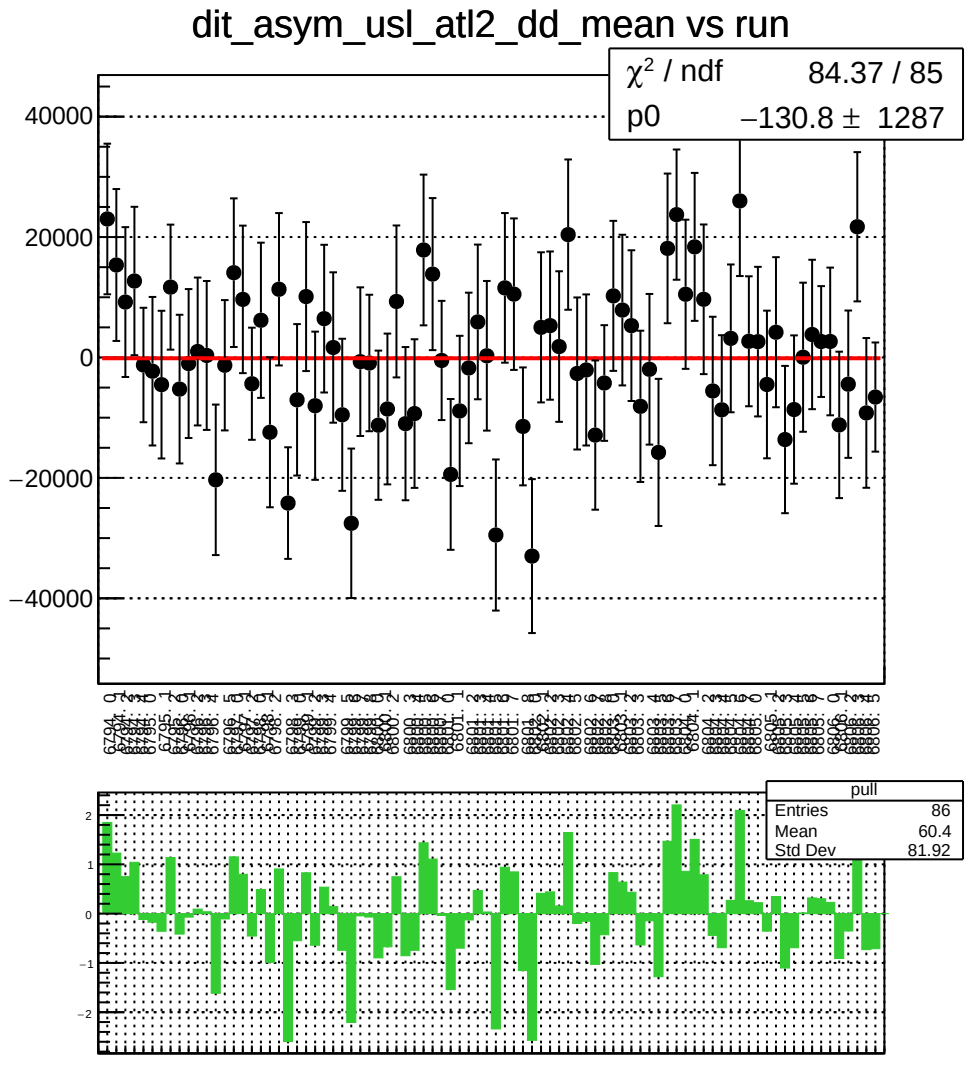

pull1D
Entries 86
Mean 0.01179
Std Dev 0.9714

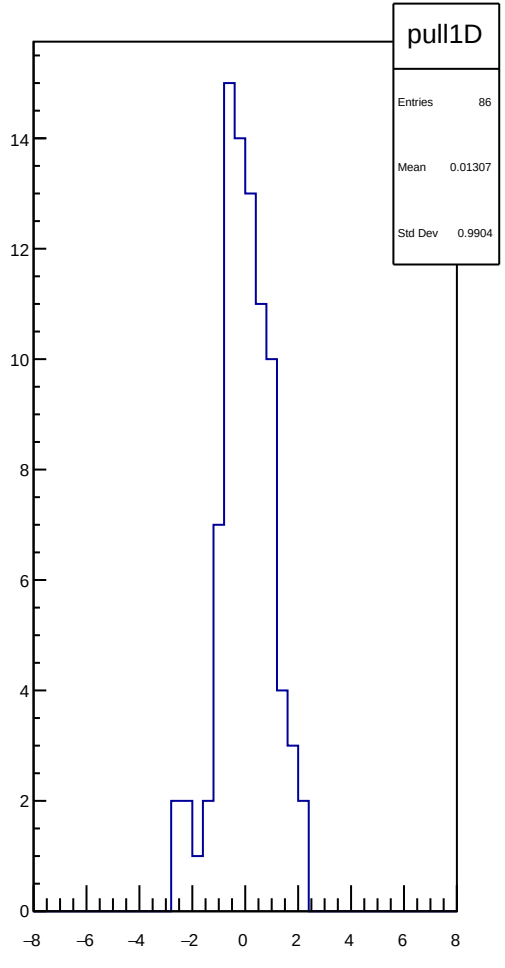

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 198.7 / 85
p0 1143 ± 0.8814
1200
1180
1160
1140
1120

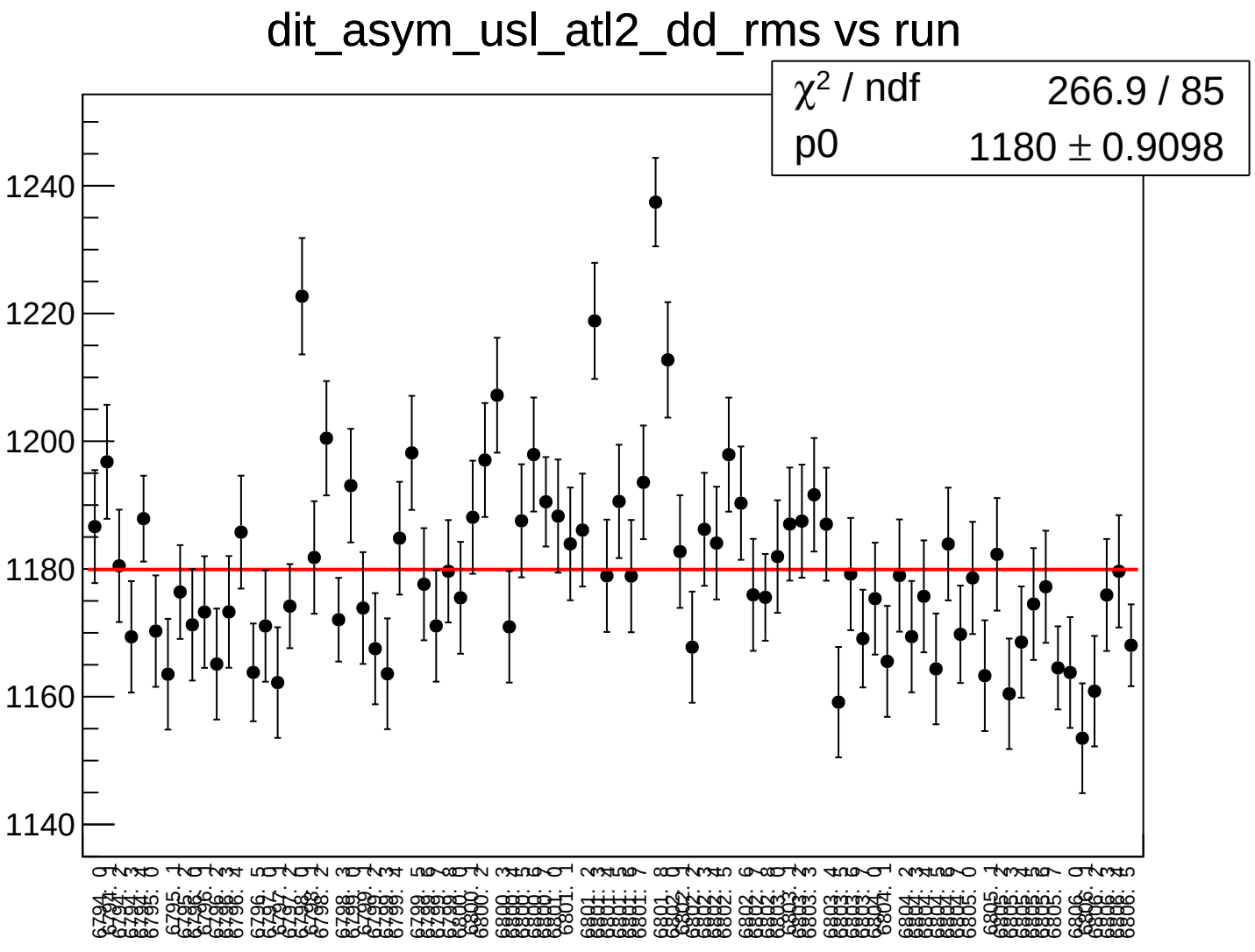

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.91 / 85
p0 3089 ± 3532
150
100
50
0
−50
−100
pull
Entries 86
Mean −88.48
Std Dev 0
3
2
1
0
−1
−2
−3

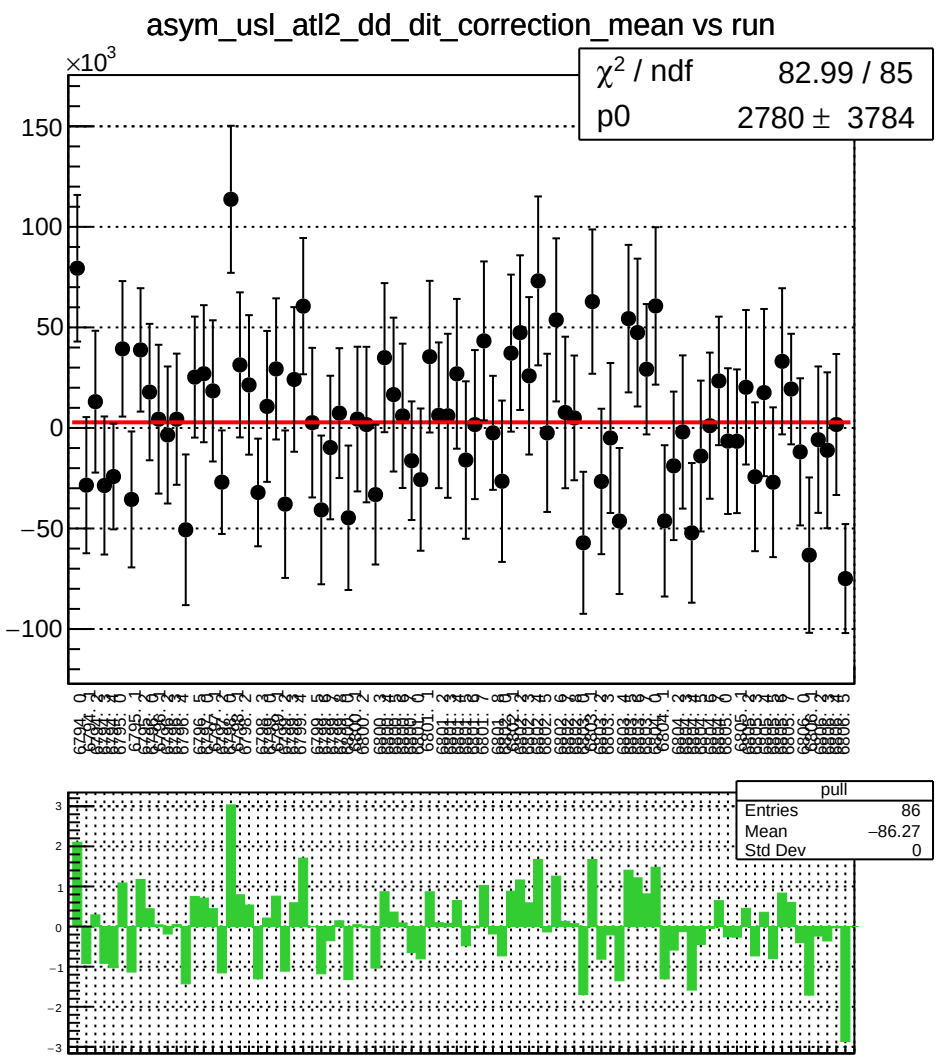

pull1D
Entries 86
Mean 0.02653
Std Dev 0.9815
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

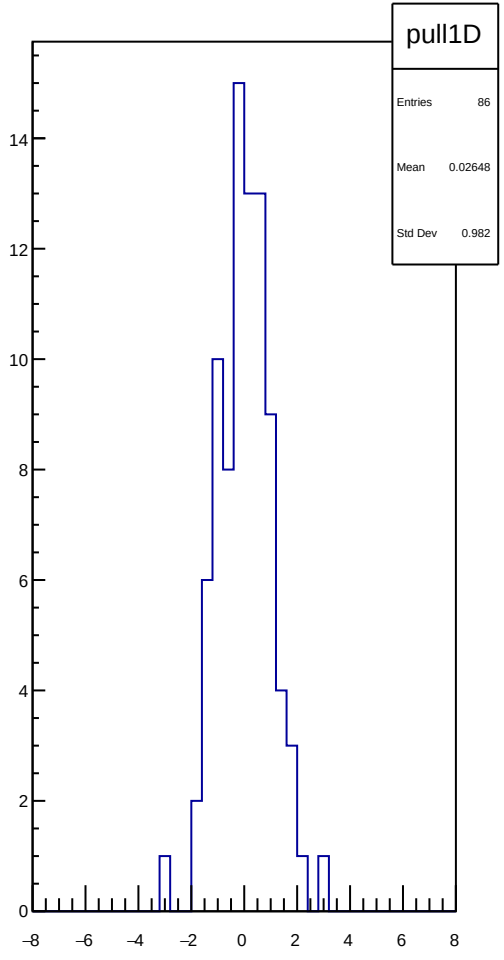

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4002 / 85
p0 3236 ± 2.498
3800
3600
3400
3200
3000
2800

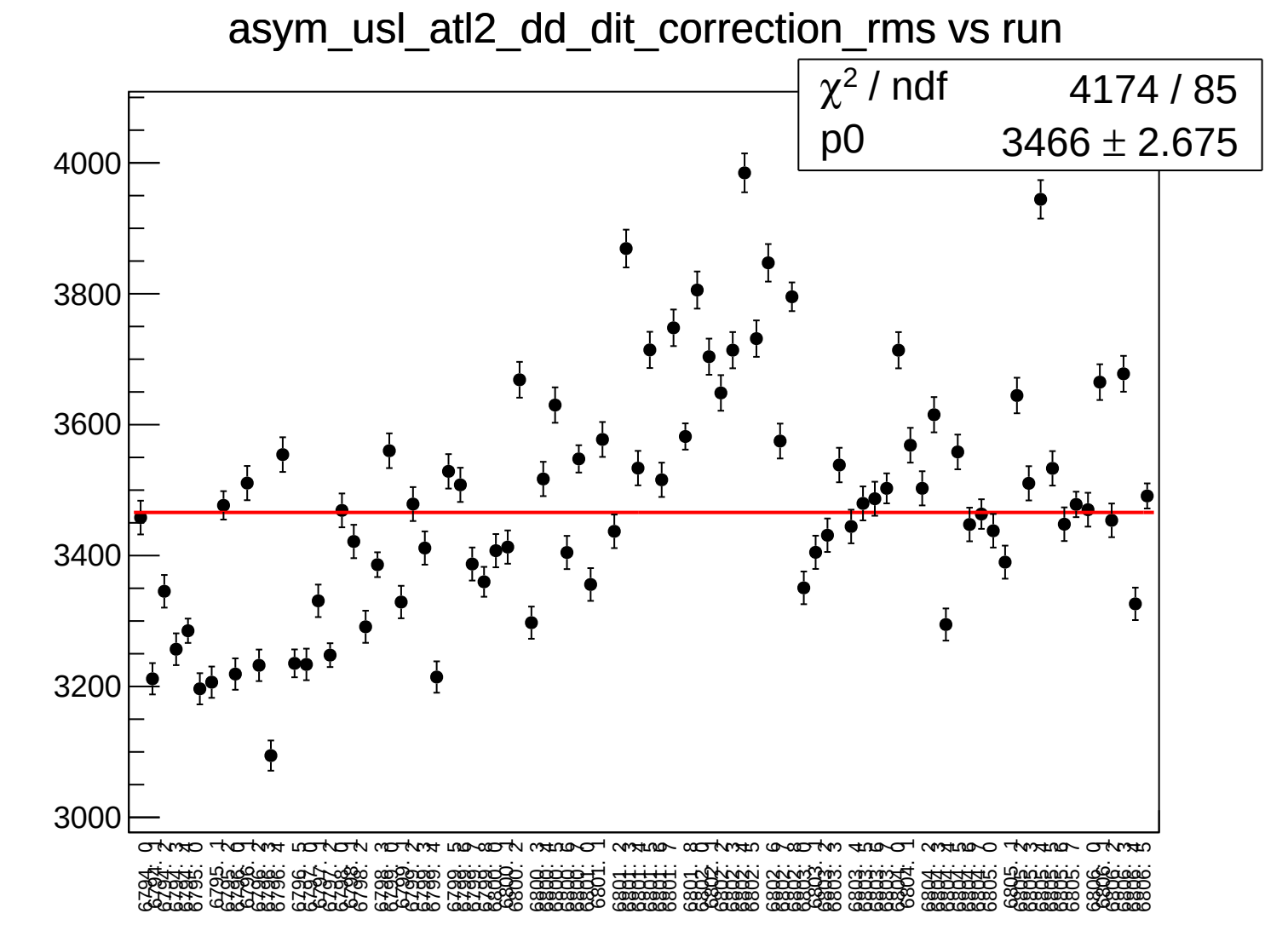

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 84.37 / 85
p0 −130.8 ± 1287
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 60.4
Std Dev 81.92
2
1
0
−1
−2

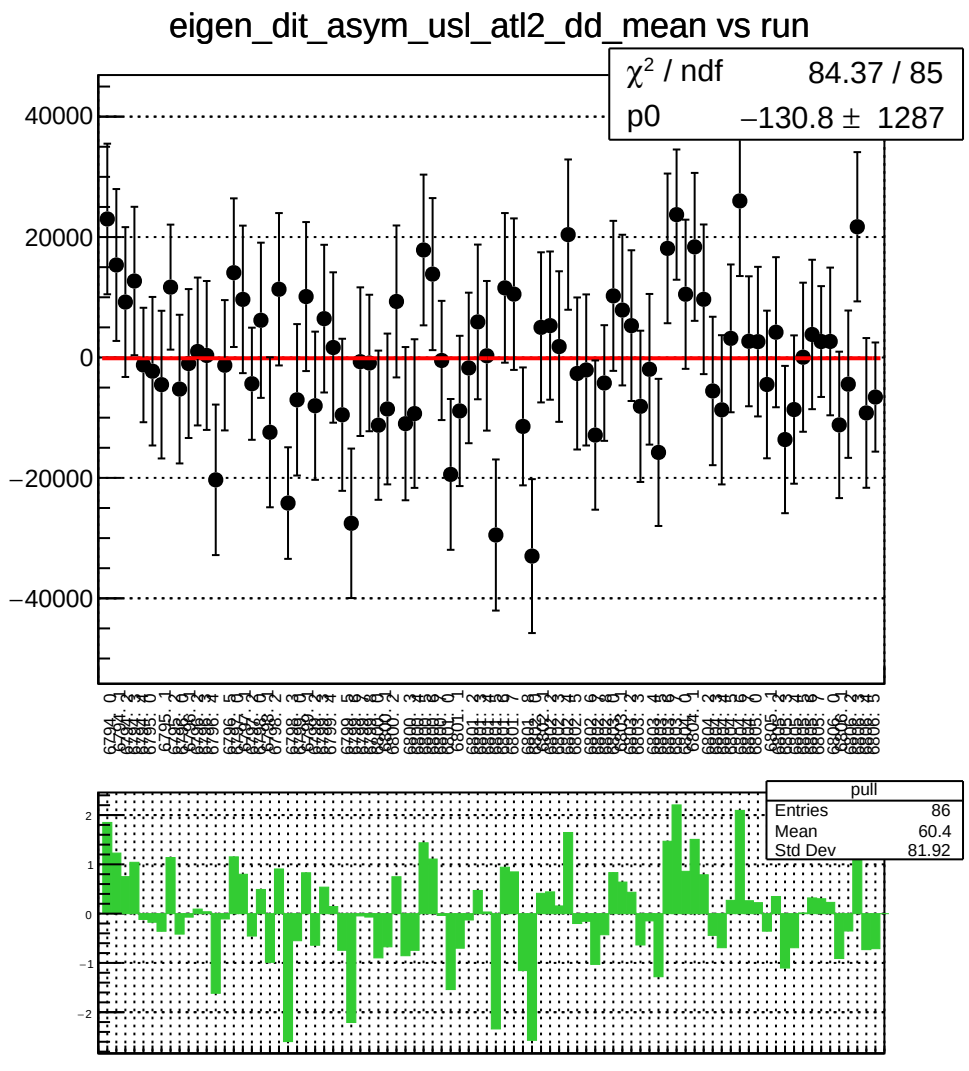

pull1D
Entries 86
Mean 0.01307
Std Dev 0.9904
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

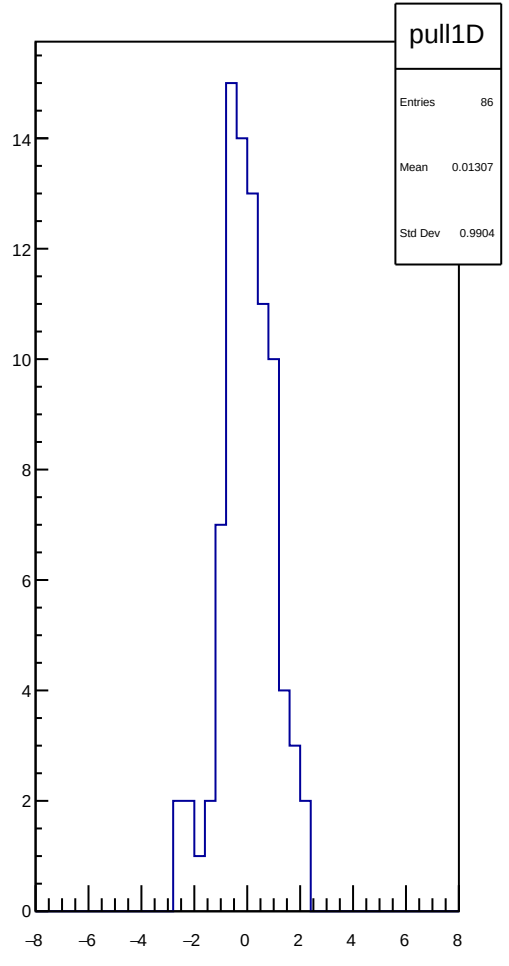

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 266.9 / 85
p0 1180 ± 0.9098
1240
1220
1200
1180
1160
1140

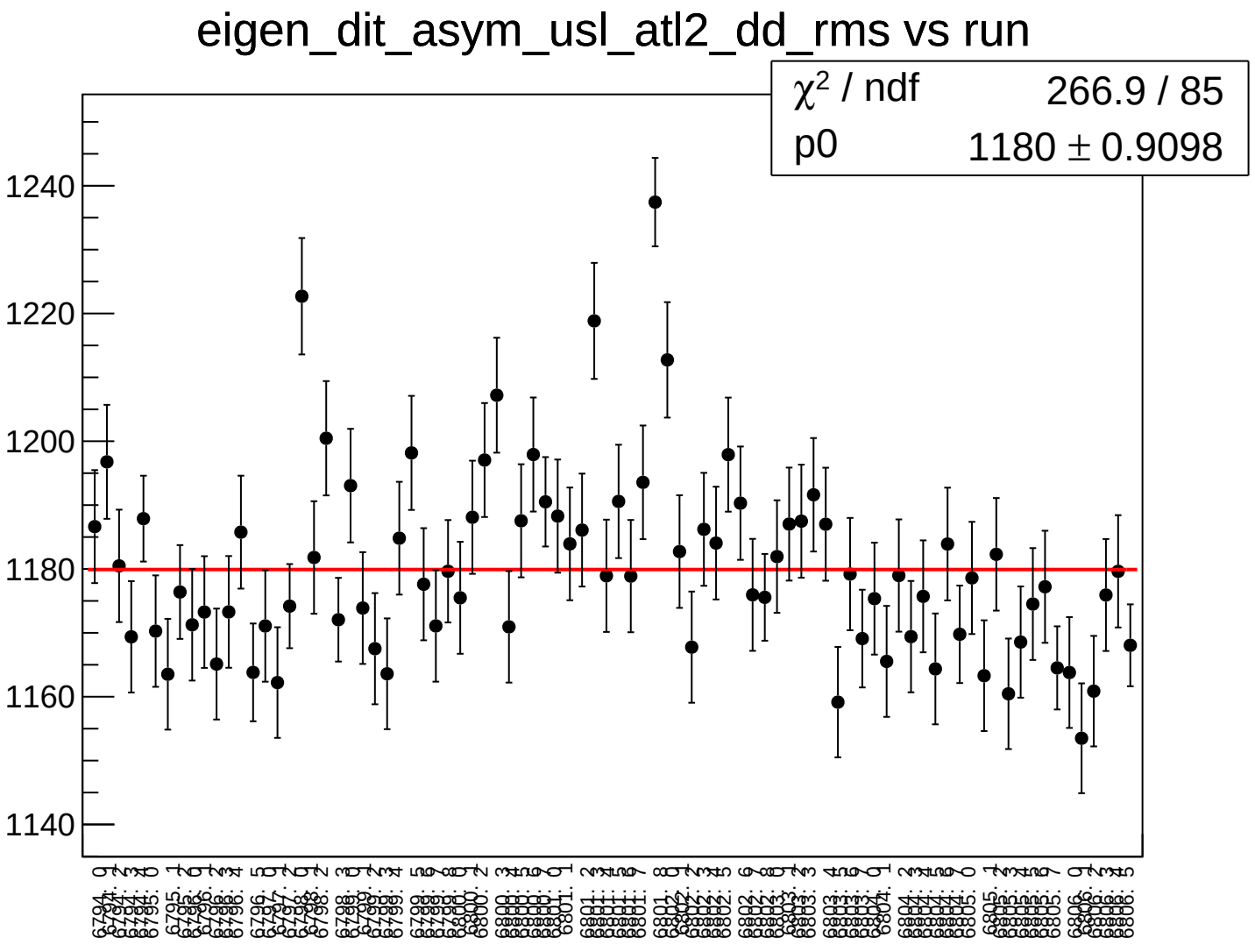

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.99 / 85
p0 2780 ± 3784
150
100
50
0
−50
−100
pull
Entries 86
Mean −86.27
Std Dev 0
3
2
1
0
−1
−2
−3

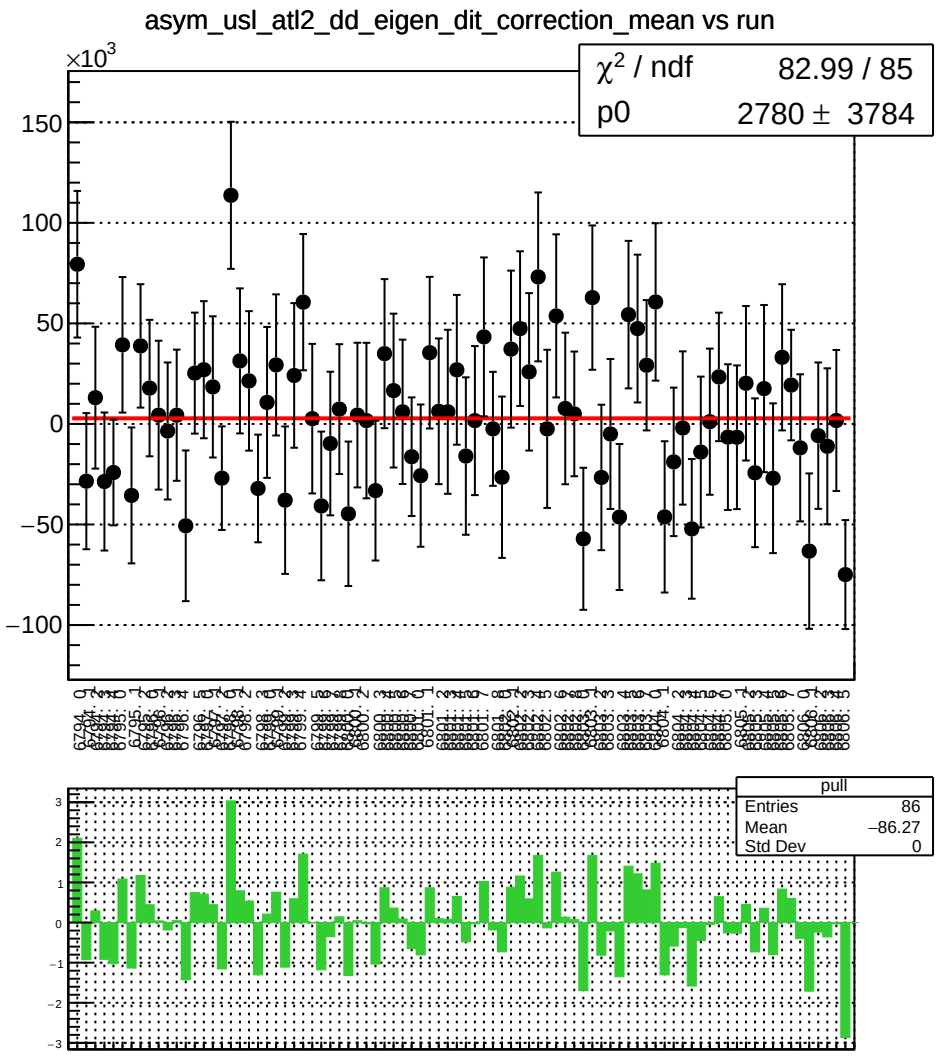

pull1D
Entries 86
Mean 0.02648
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

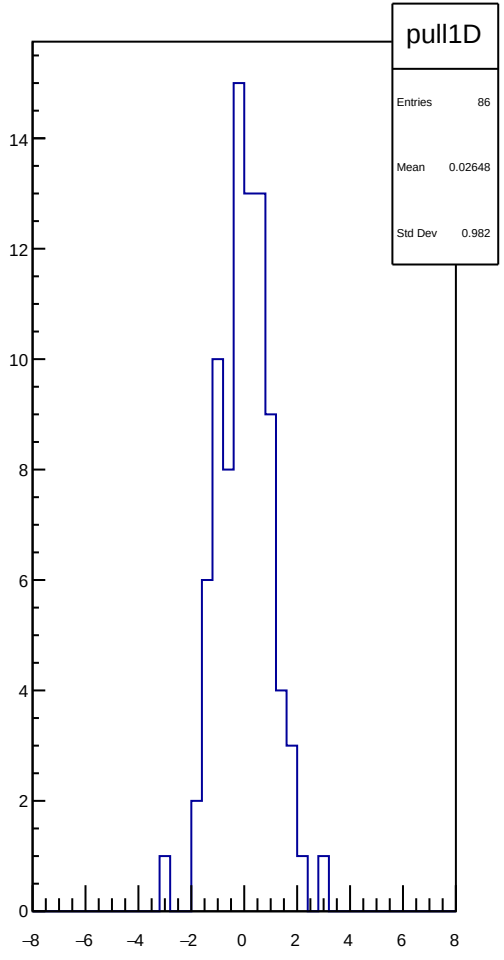

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 4174 / 85
p0 3466 ± 2.675
4000
3800
3600
3400
3200
3000

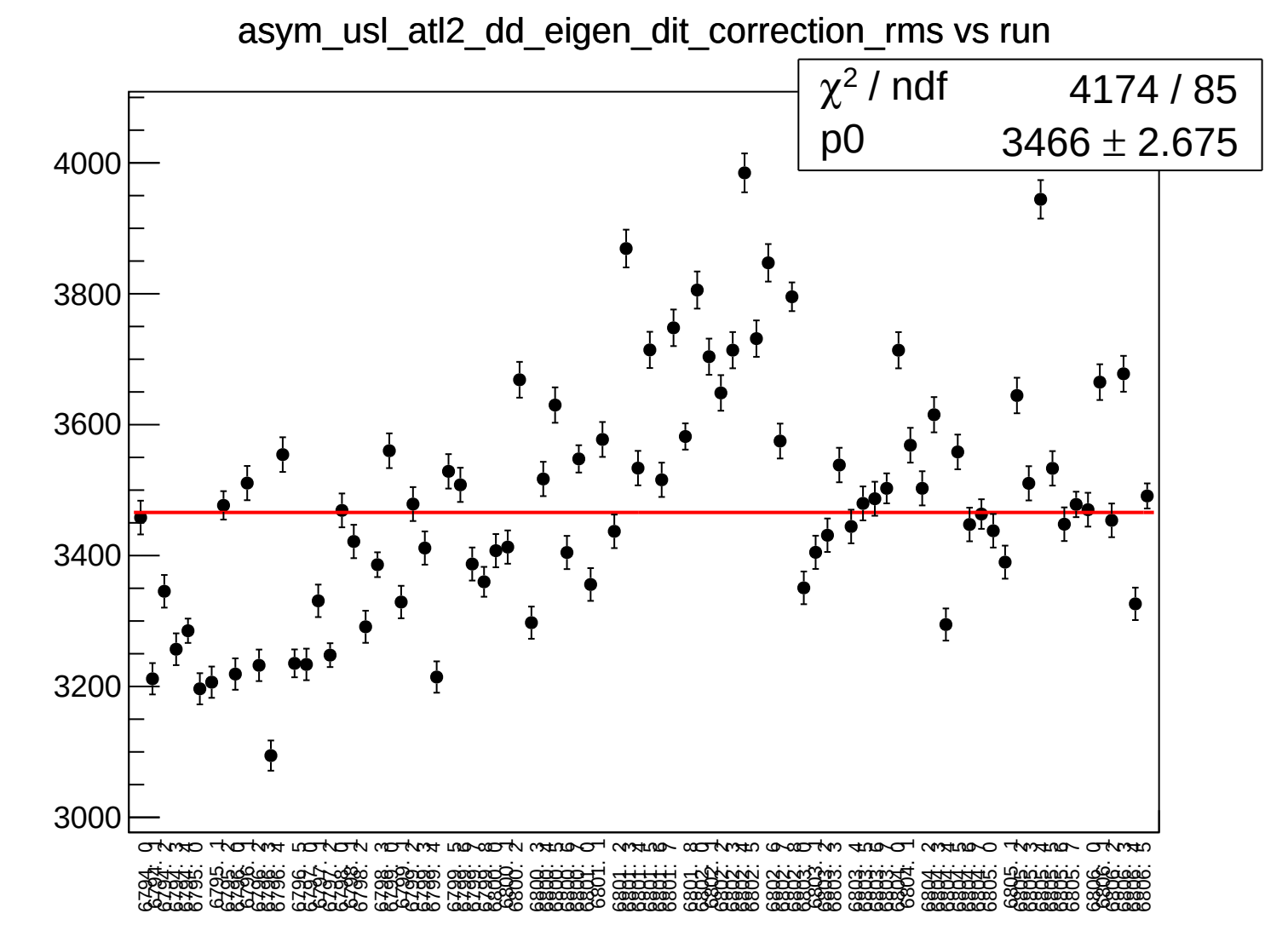

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 84.37 / 85
p0 −130.8 ± 1287
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 60.4
Std Dev 81.92
2
1
0
−1
−2

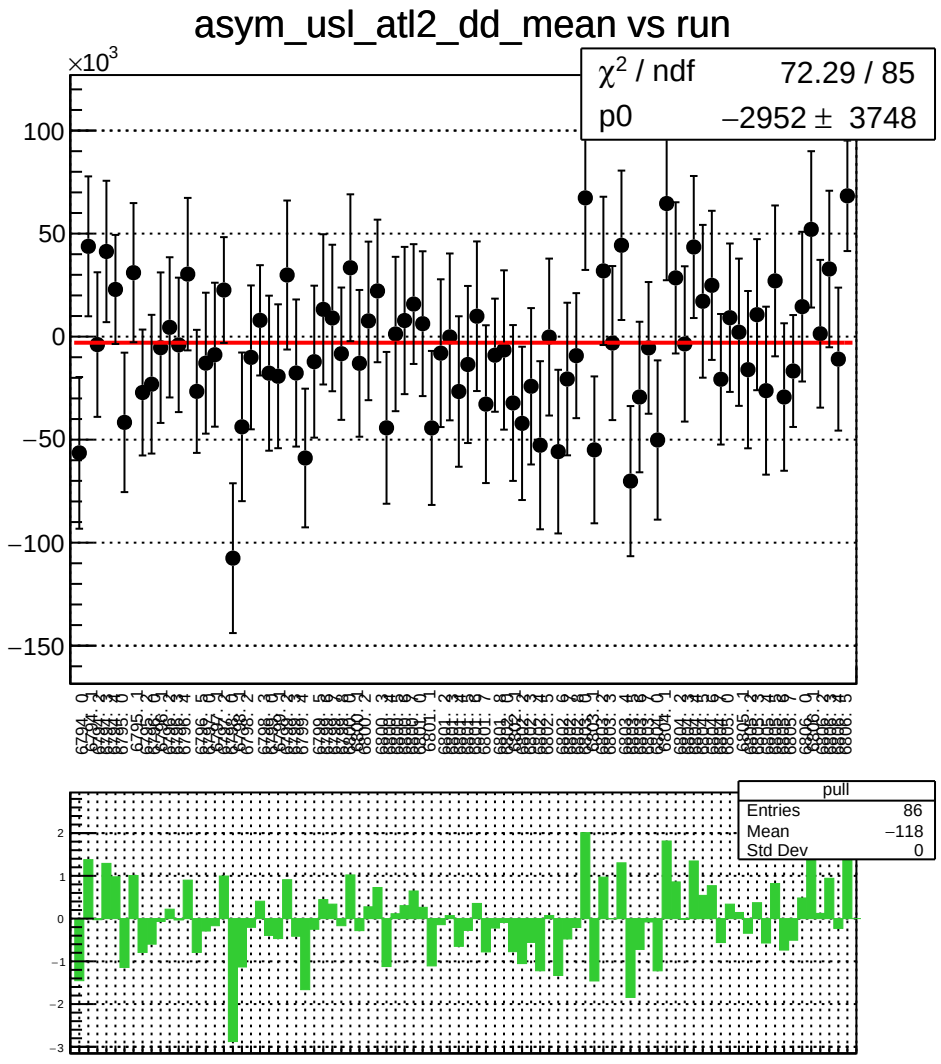

pull1D
Entries 86
Mean 0.01307
Std Dev 0.9904
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

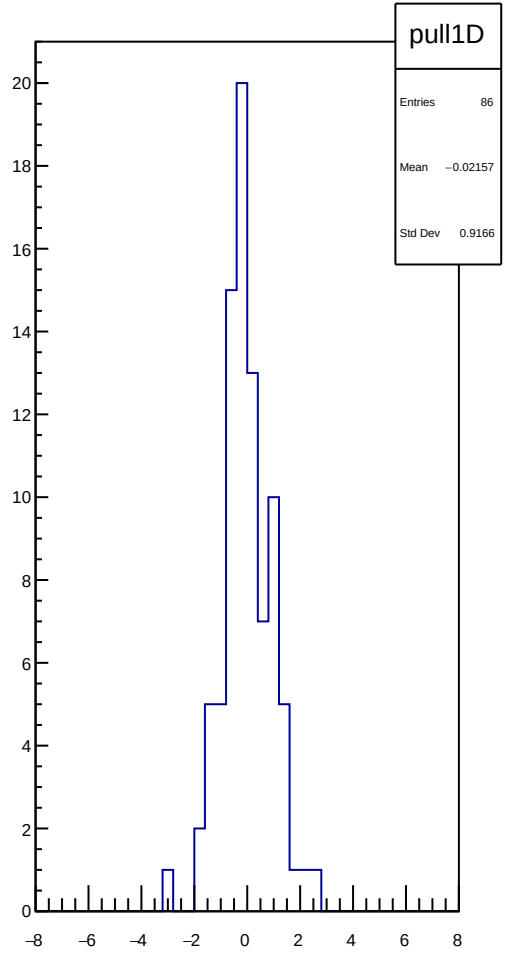

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 266.9 / 85
p0 1180 ± 0.9098
1240
1220
1200
1180
1160
1140

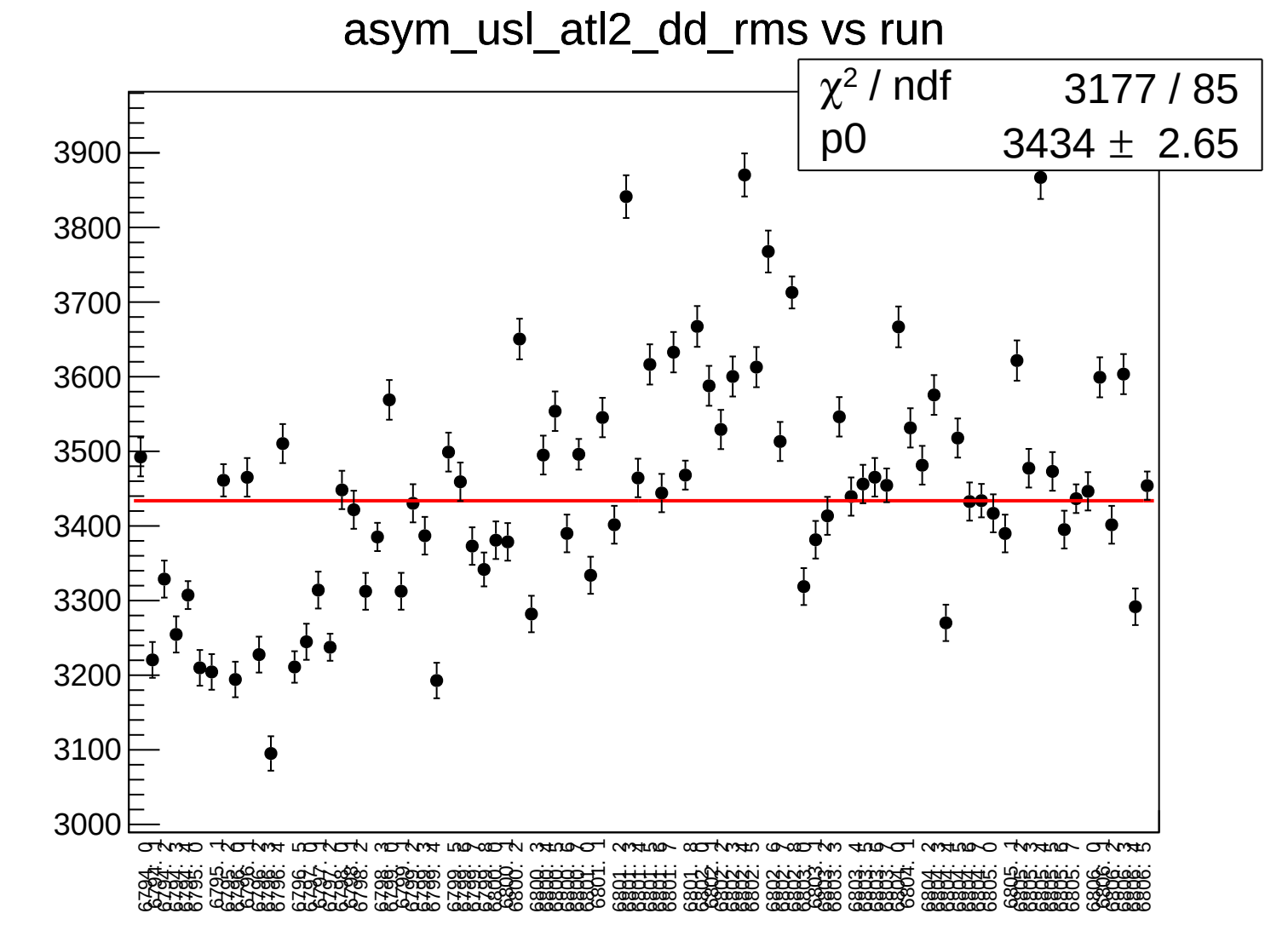

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.99 / 85
p0 2780 ± 3784
150
100
50
0
−50
−100
pull
Entries 86
Mean −86.27
Std Dev 0
3
2
1
0
−1
−2
−3

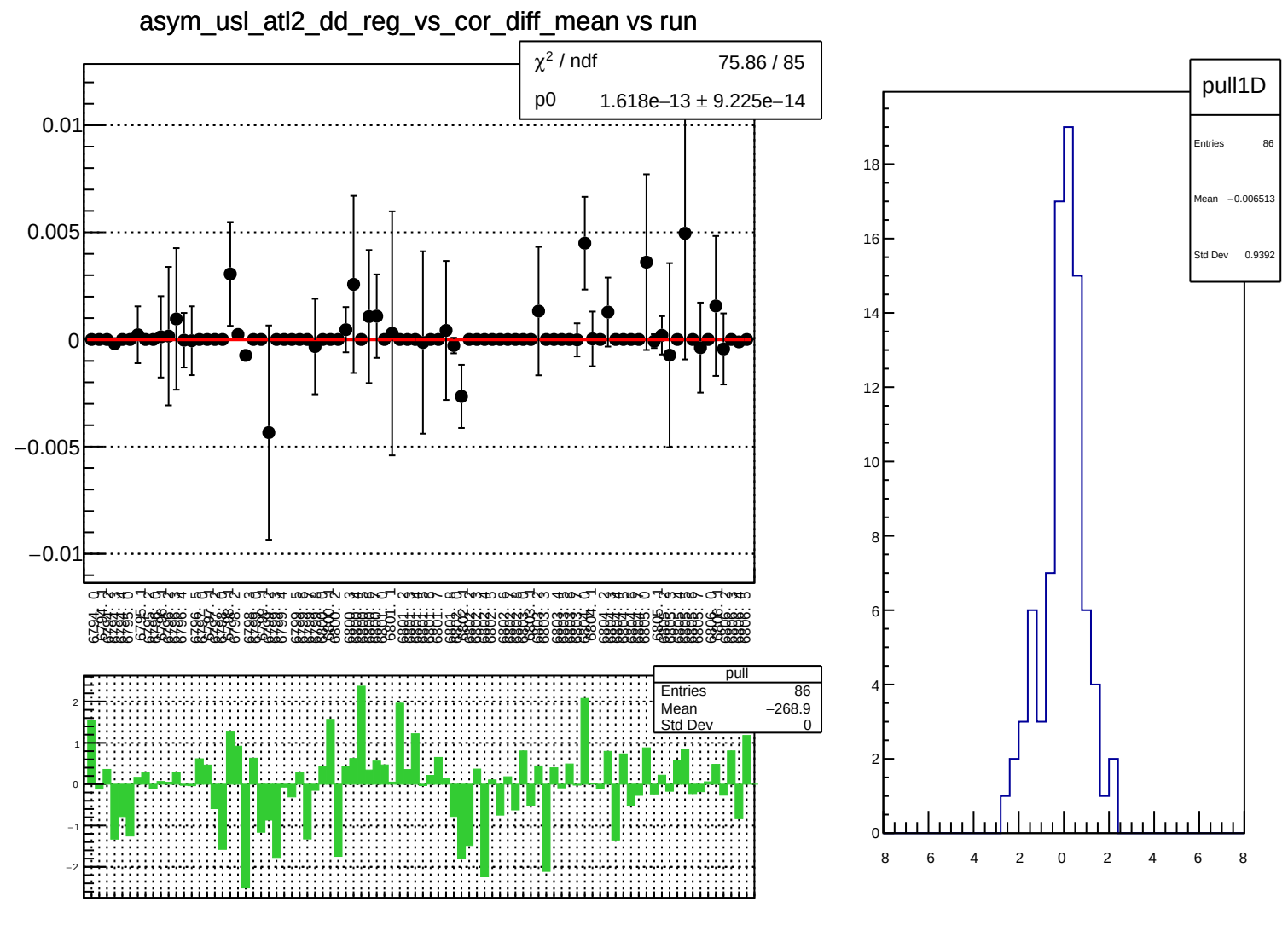

pull1D
Entries 86
Mean 0.02648
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

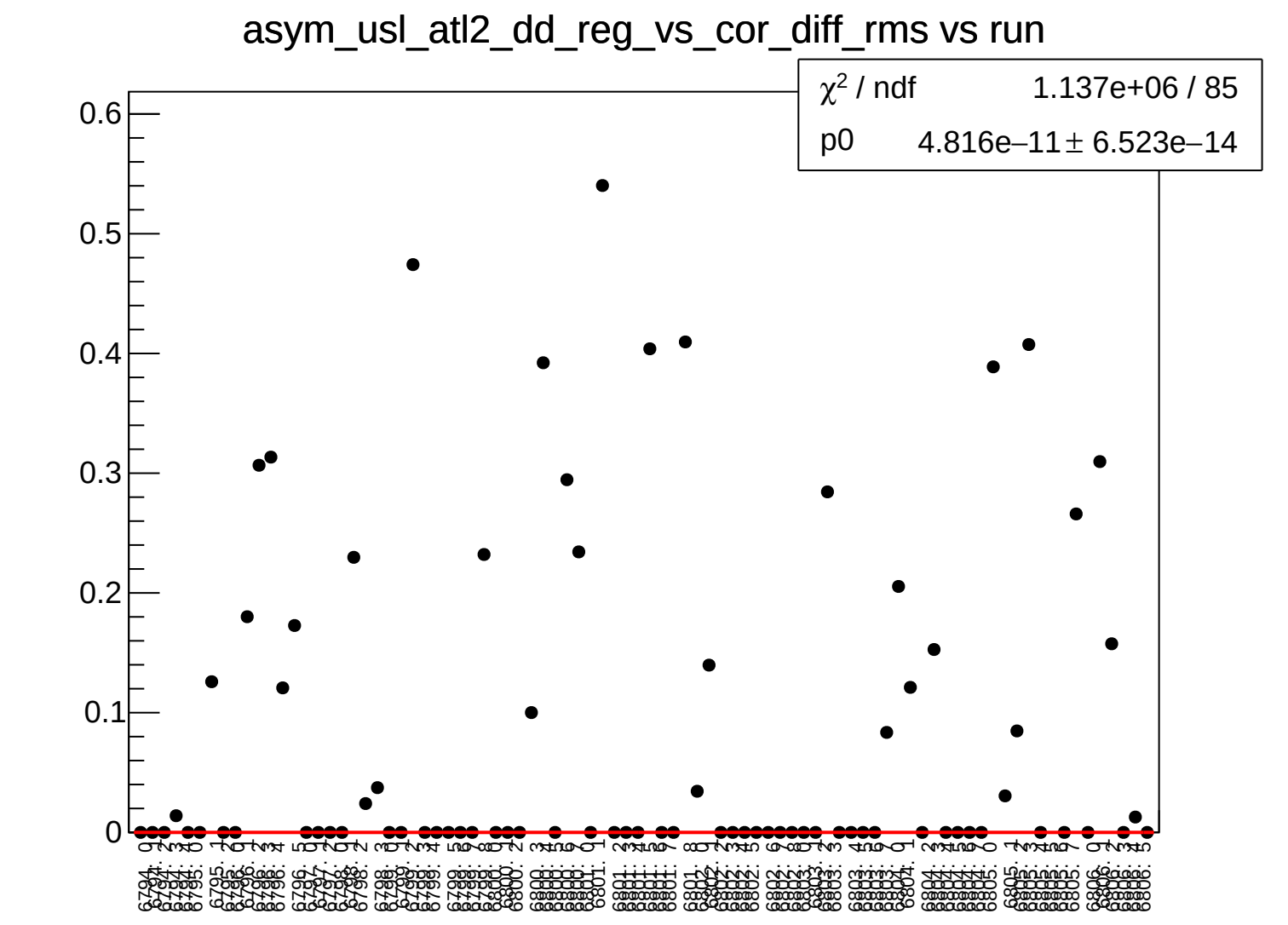

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4174 / 85
p0 3466 ± 2.675
4000
3800
3600
3400
3200
3000

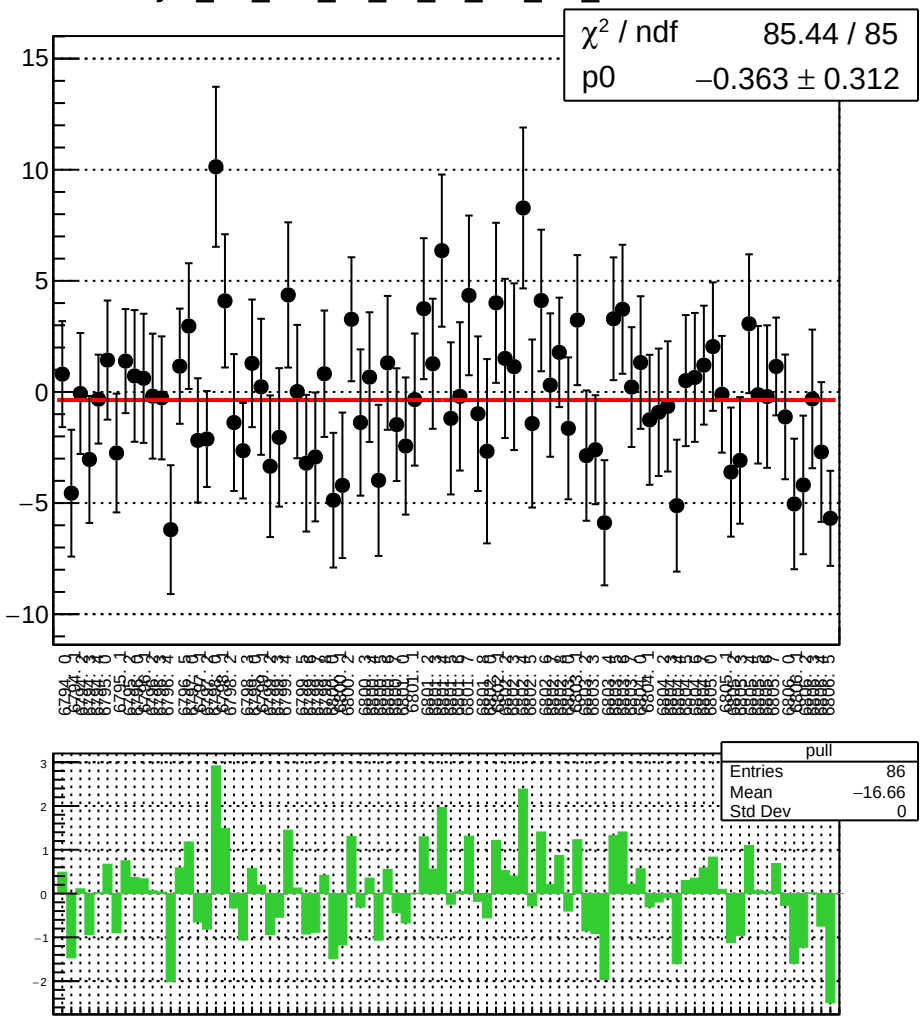

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 72.29 / 85
p0 −2952 ± 3748
100
50
0
−50
−100
−150
pull
Entries 86
Mean −118
Std Dev 0
2
1
0
−1
−2
−3

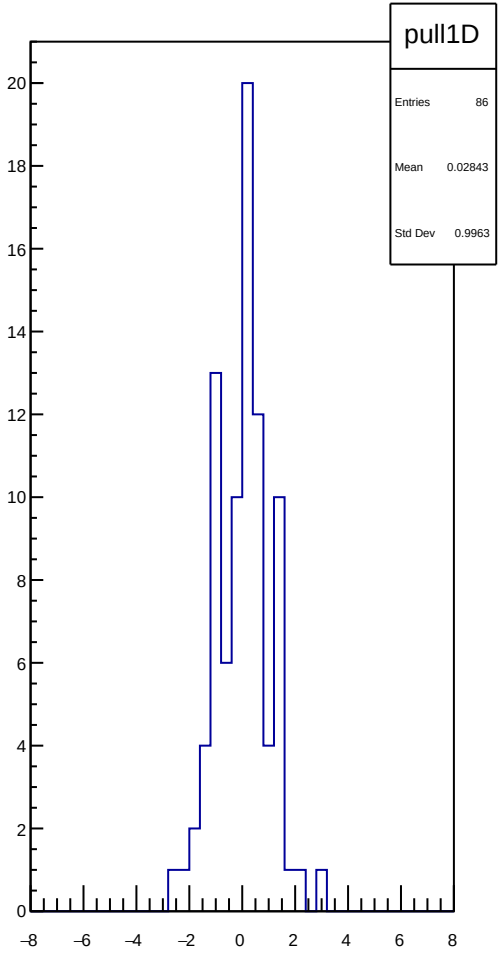

pull1D
Entries 86
Mean −0.02157
Std Dev 0.9166
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

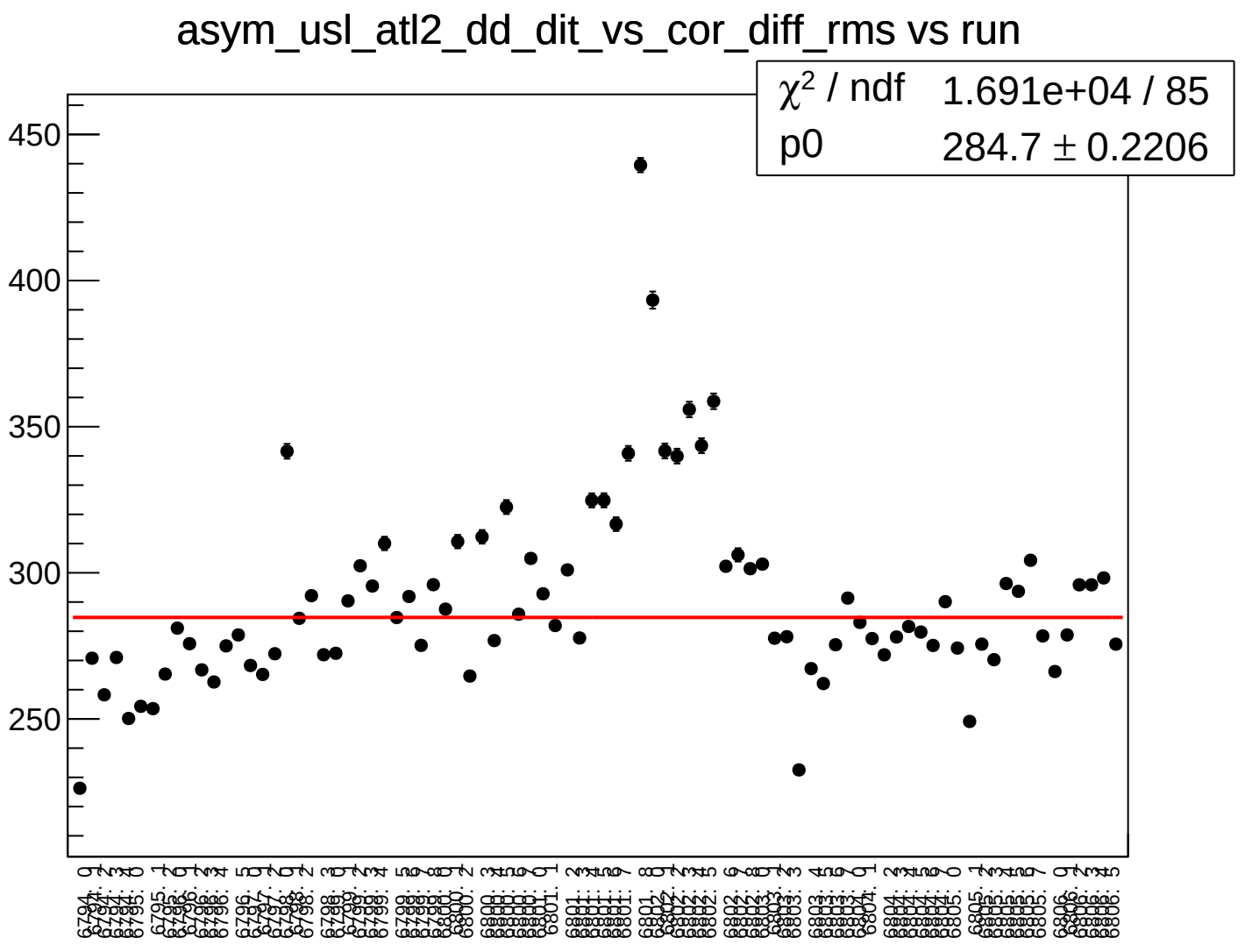

asym_usl_atl2_dd_rms vs run
χ² / ndf 3177 / 85
p0 3434 ± 2.65
3900
3800
3700
3600
3500
3400
3300
3200
3100
3000

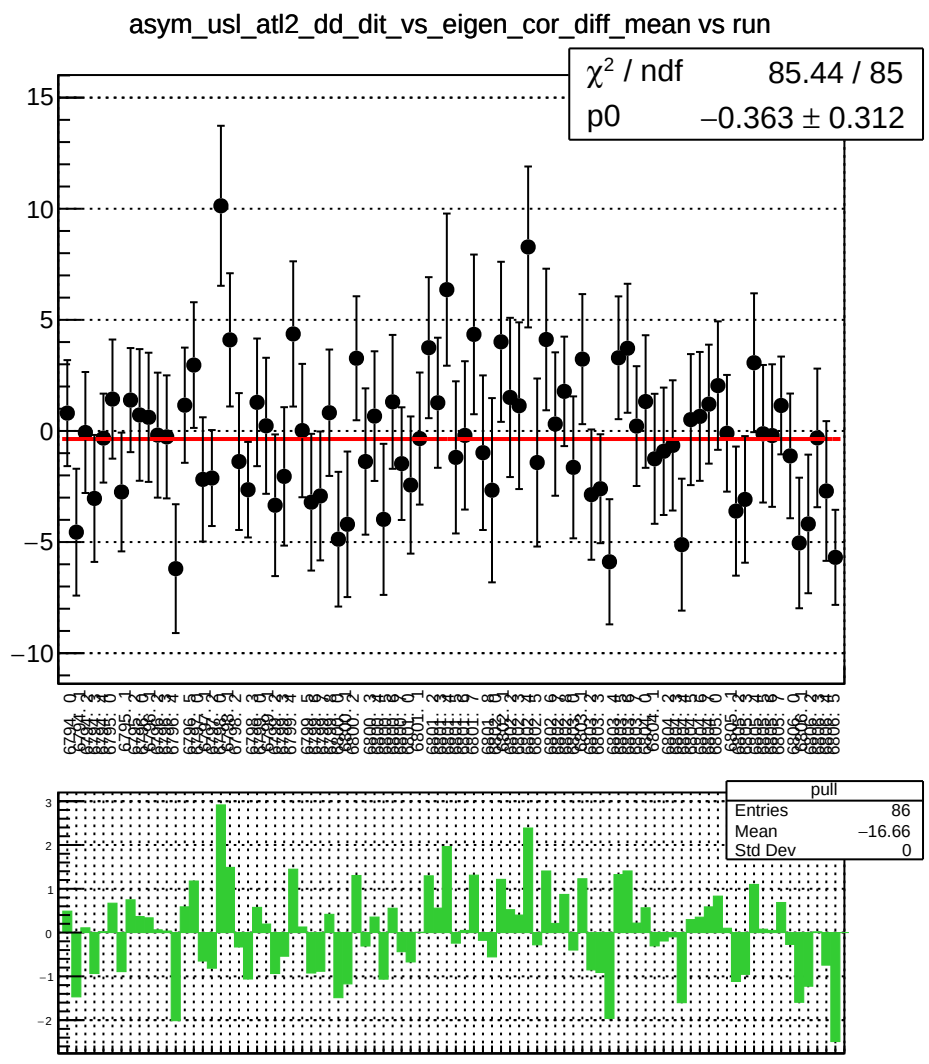

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 85
p0 1.618e−13 ± 9.225e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean −268.9
Std Dev 0
pull1D
Entries 86
Mean −0.006513
Std Dev 0.9392

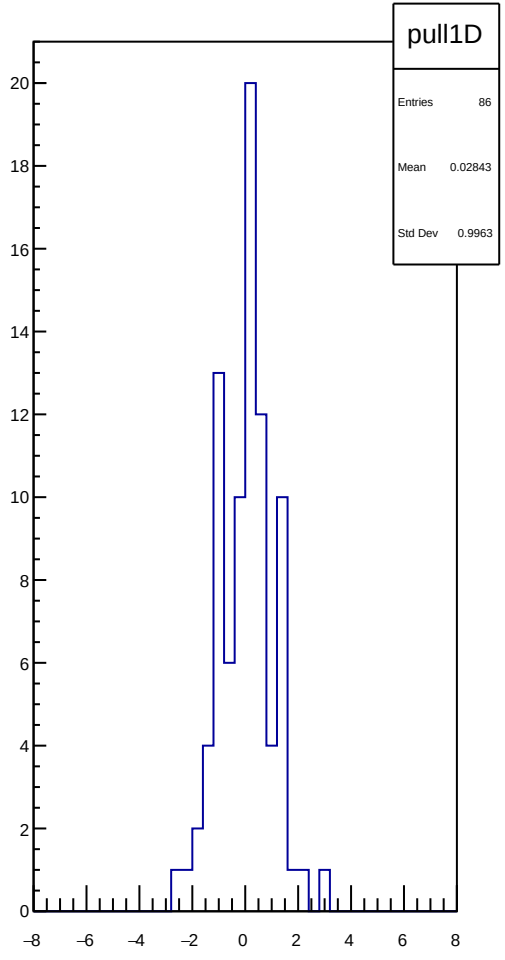

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 85
p0 4.816e−11 ± 6.523e−14
0.6
0.5
0.4
0.3
0.2
0.1
0

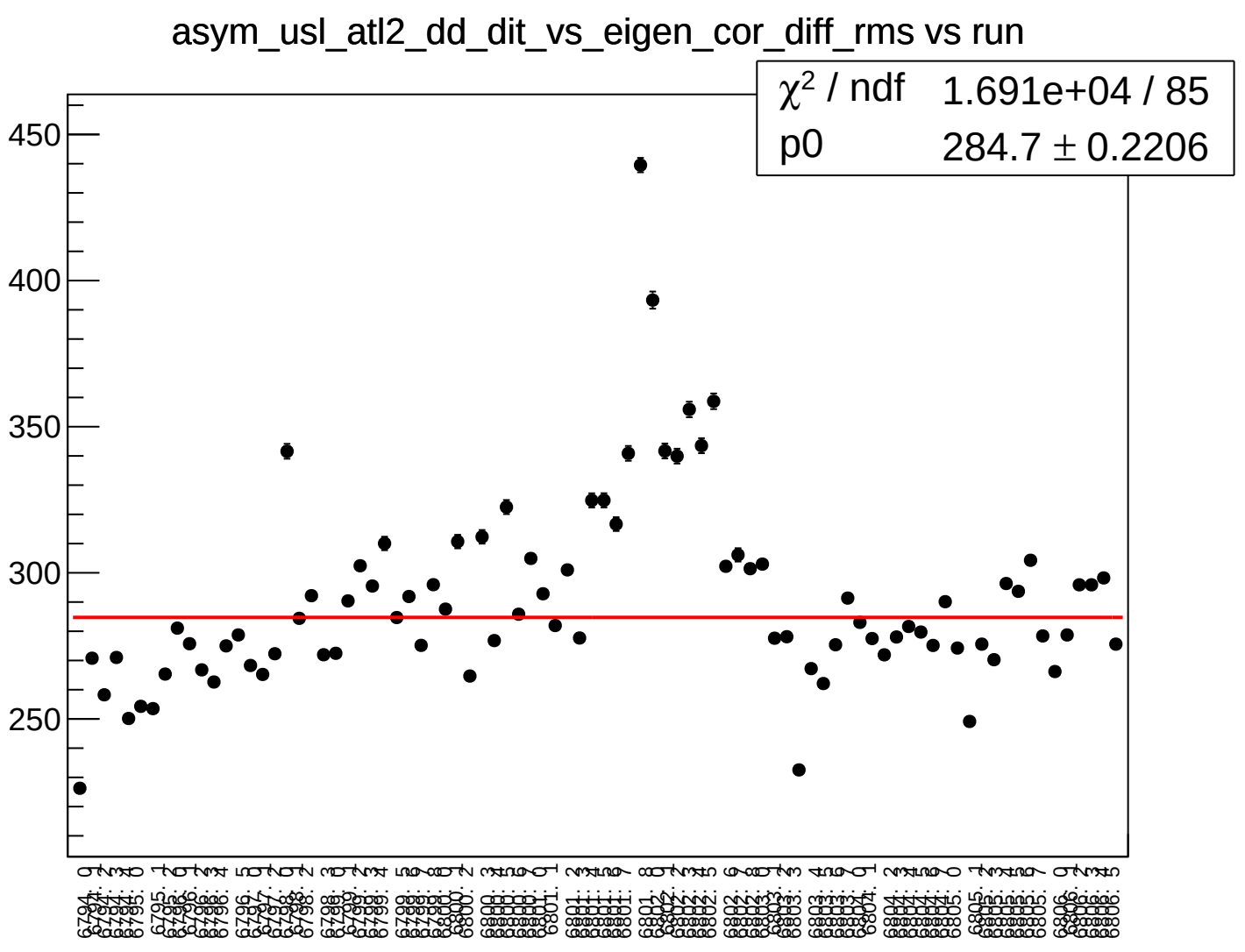

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.44 / 85
p0 −0.363 ± 0.312
pull
Entries 86
Mean −16.66
Std Dev 0

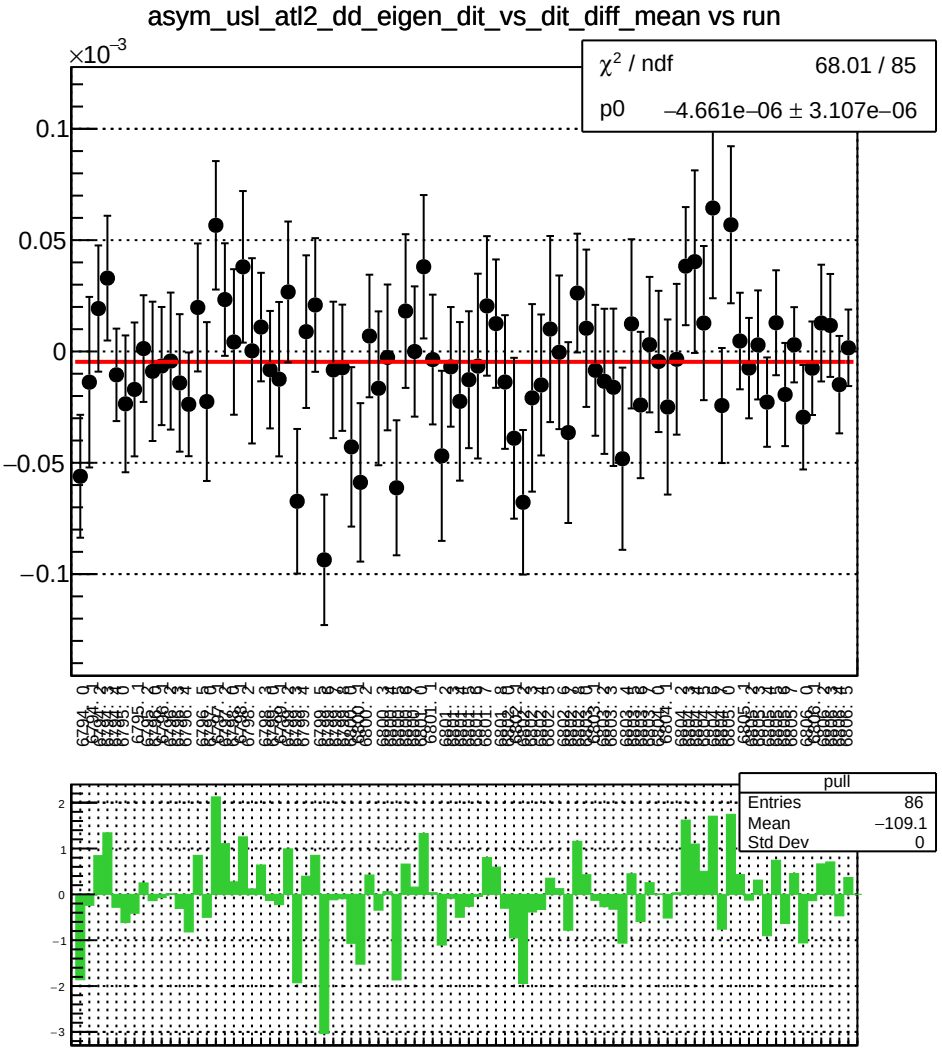

pull1D
Entries 86
Mean 0.02843
Std Dev 0.9963

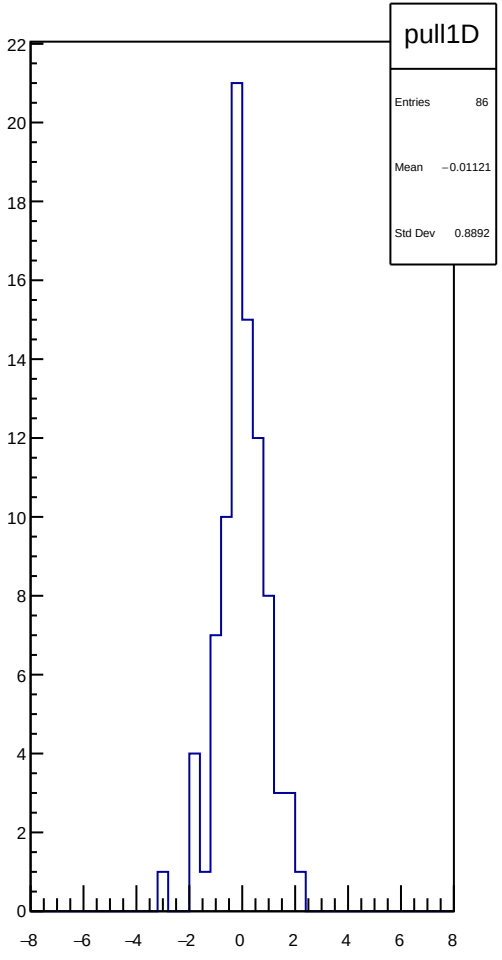

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.691e+04 / 85
p0 284.7 ± 0.2206
450
400
350
300
250

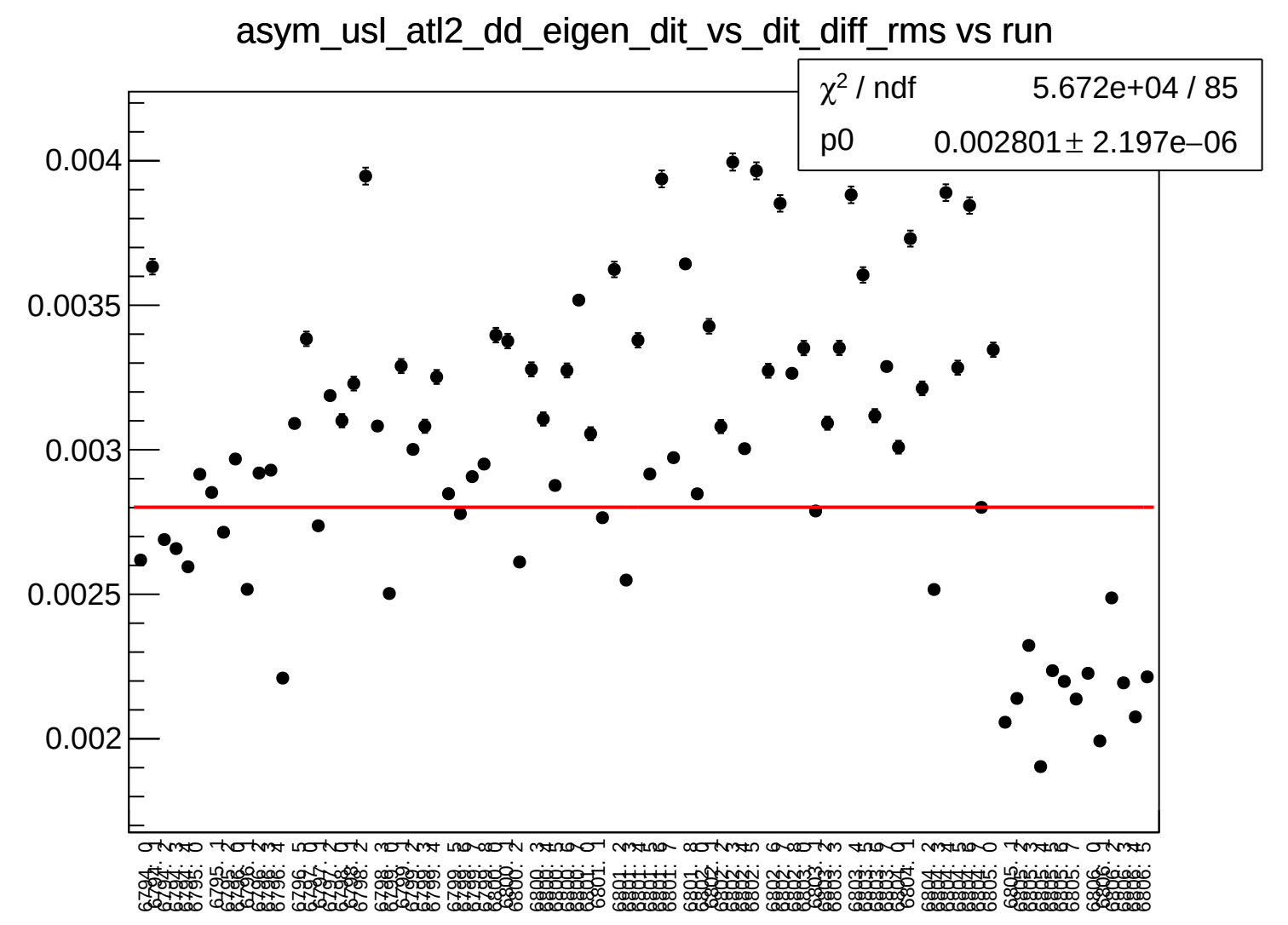

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.44 / 85
p0 −0.363 ± 0.312
pull
Entries 86
Mean −16.66
Std Dev 0

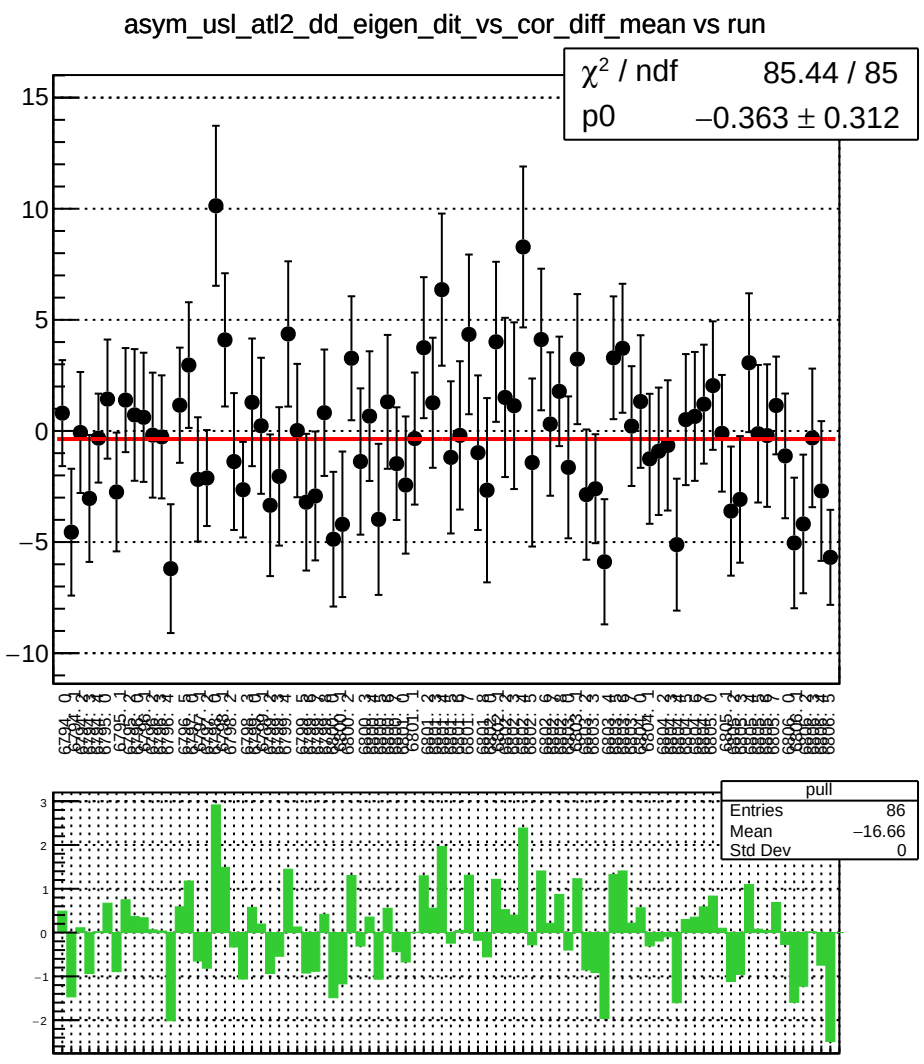

pull1D
Entries 86
Mean 0.02843
Std Dev 0.9963

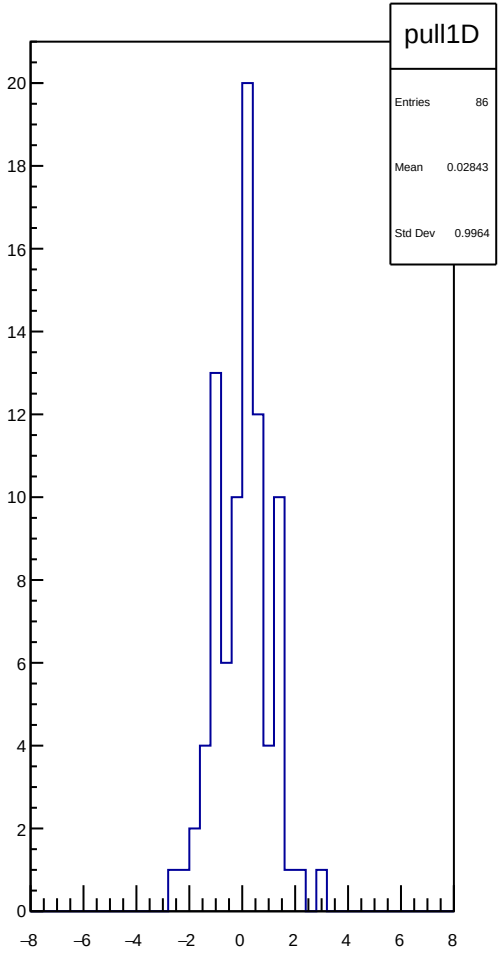

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.691e+04 / 85
p0 284.7 ± 0.2206
450
400
350
300
250

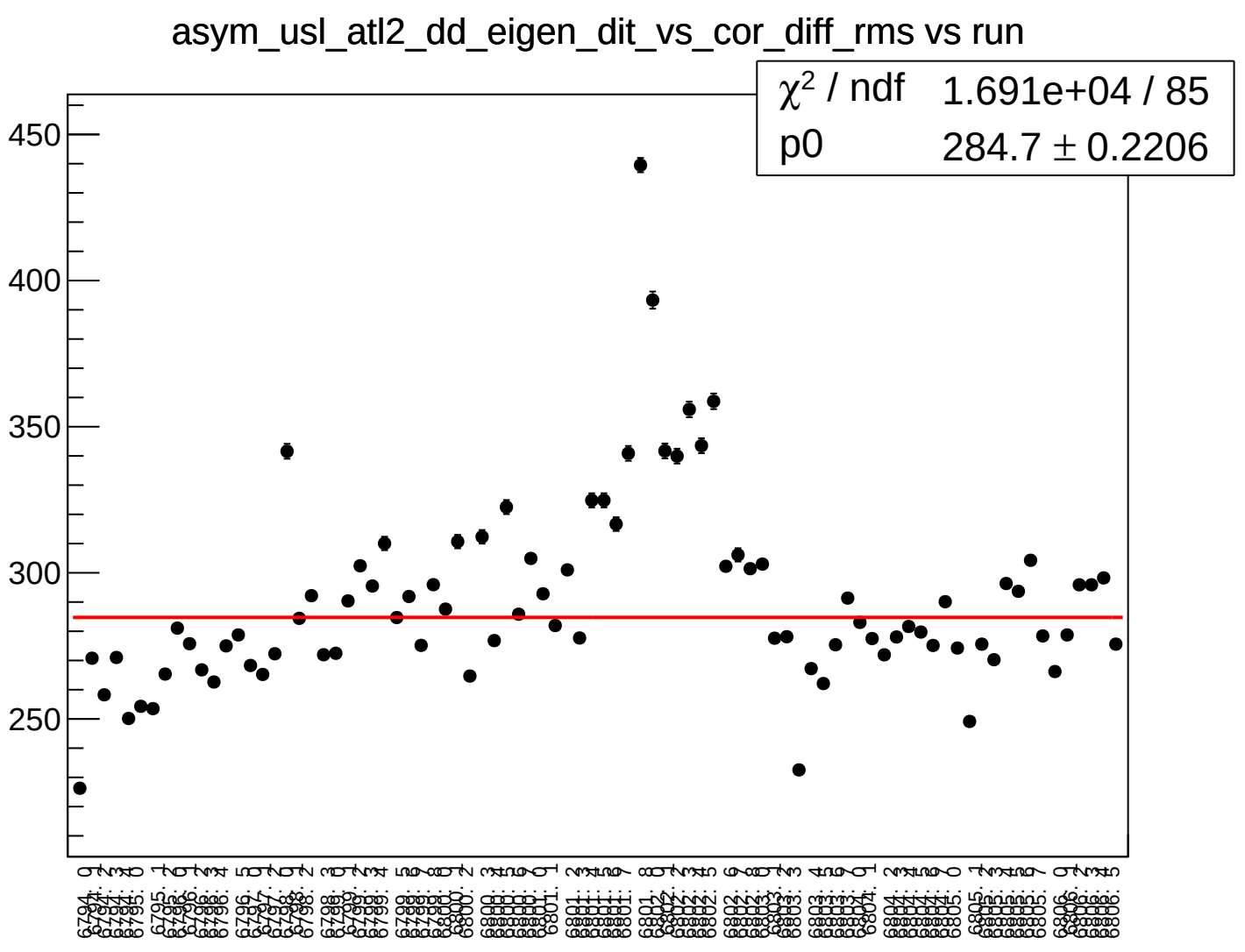

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.01 / 85
p0 −4.661e−06 ± 3.107e−06
pull
Entries 86
Mean −109.1
Std Dev 0

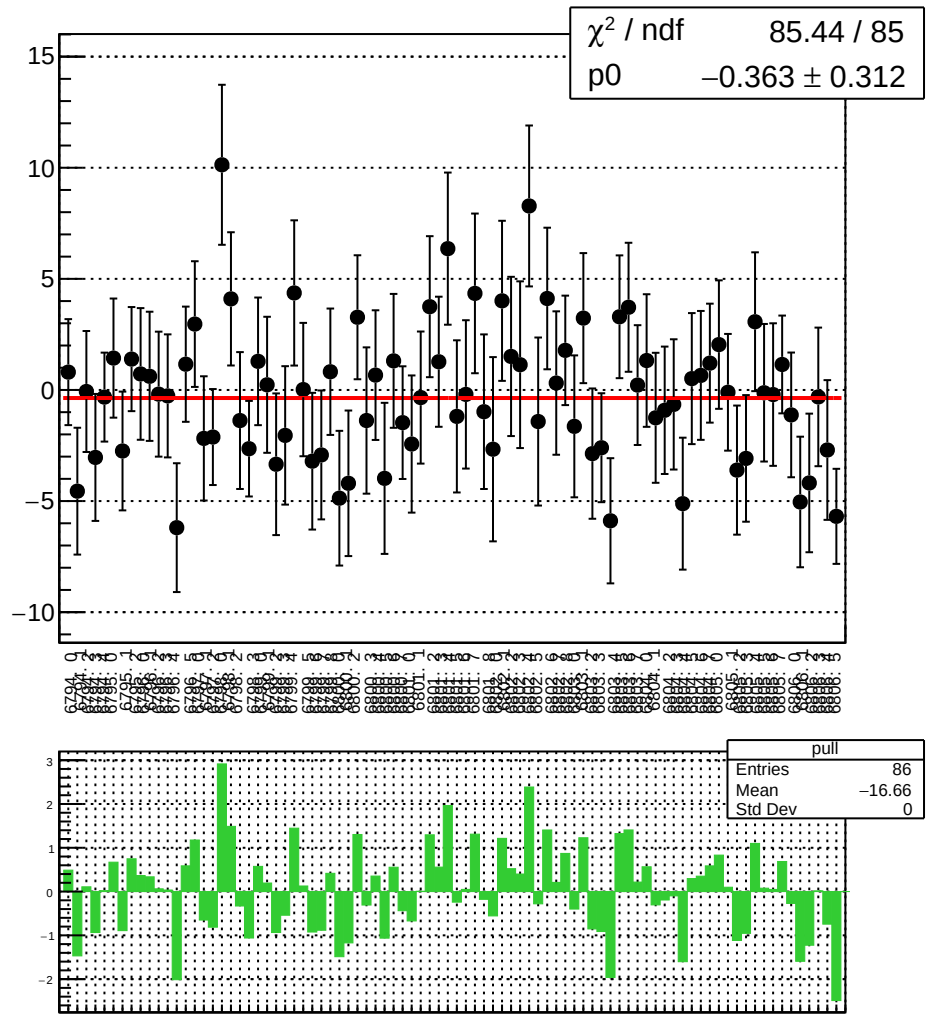

pull1D
Entries 86
Mean −0.01121
Std Dev 0.8892

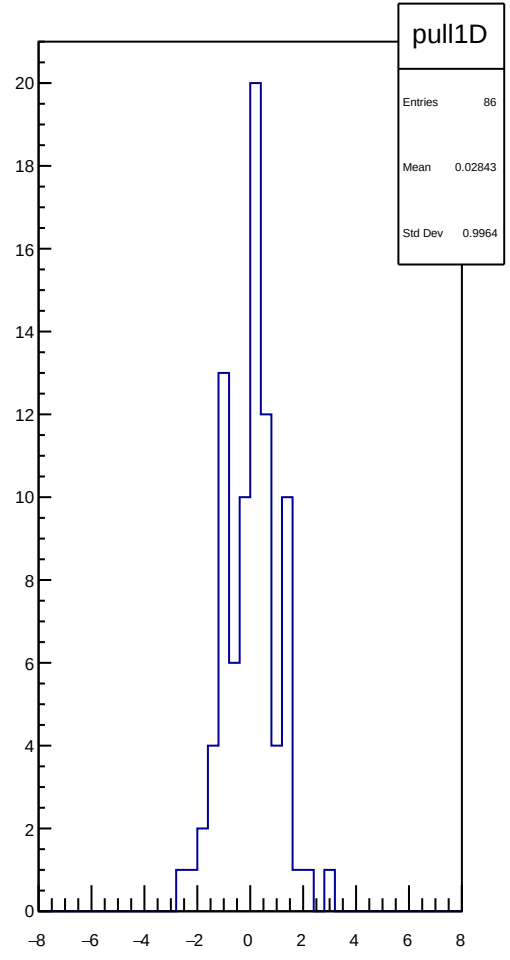

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.672e+04 / 85
p0 0.002801 ± 2.197e−06
0.004
0.0035
0.003
0.0025
0.002

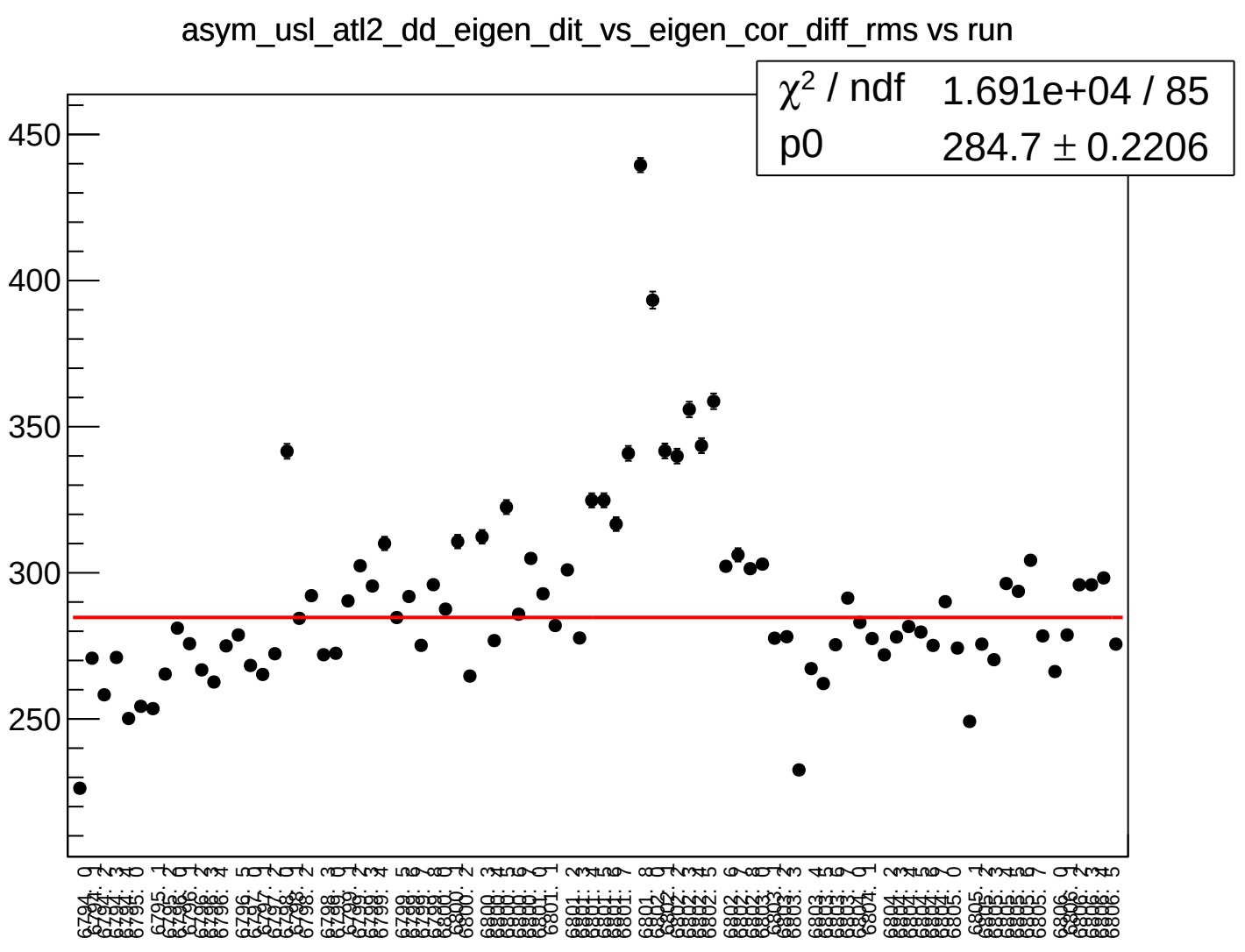

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.44 / 85
p0 −0.363 ± 0.312
pull
Entries 86
Mean −16.66
Std Dev 0

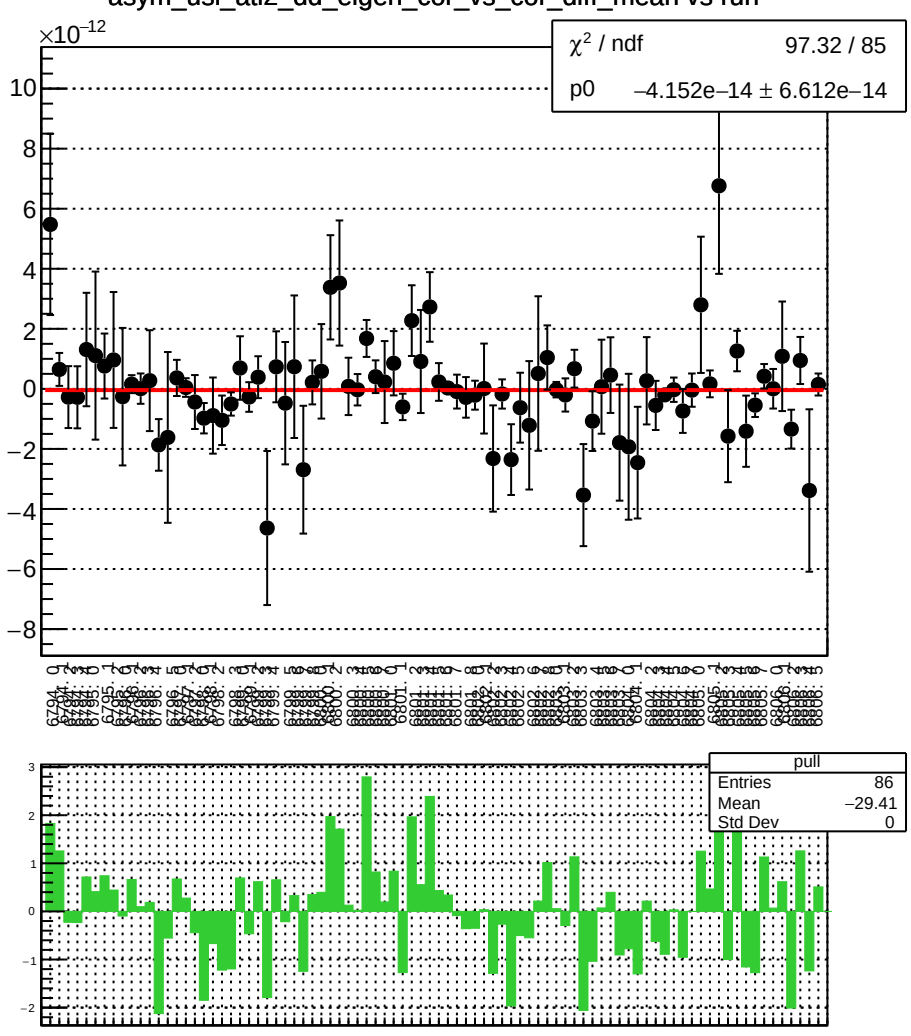

pull1D
Entries 86
Mean 0.02843
Std Dev 0.9964

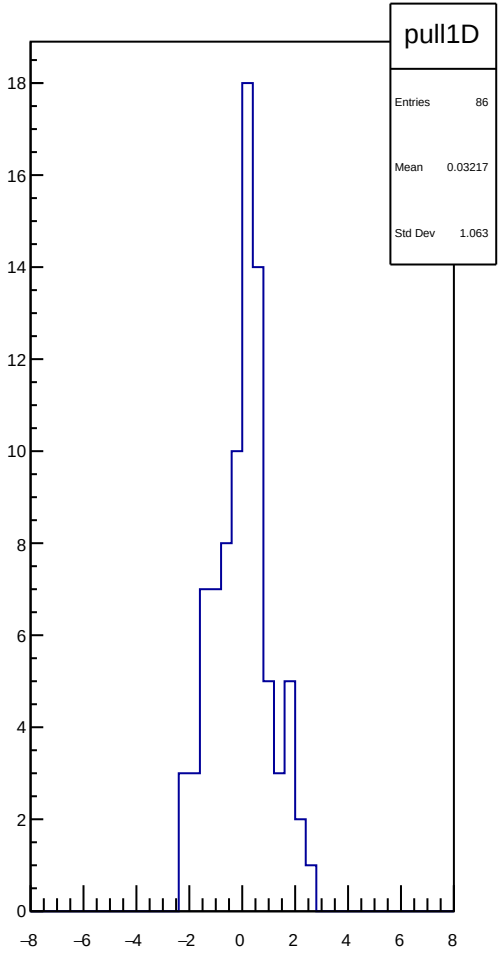

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.691e+04 / 85
p0 284.7 ± 0.2206
450
400
350
300
250

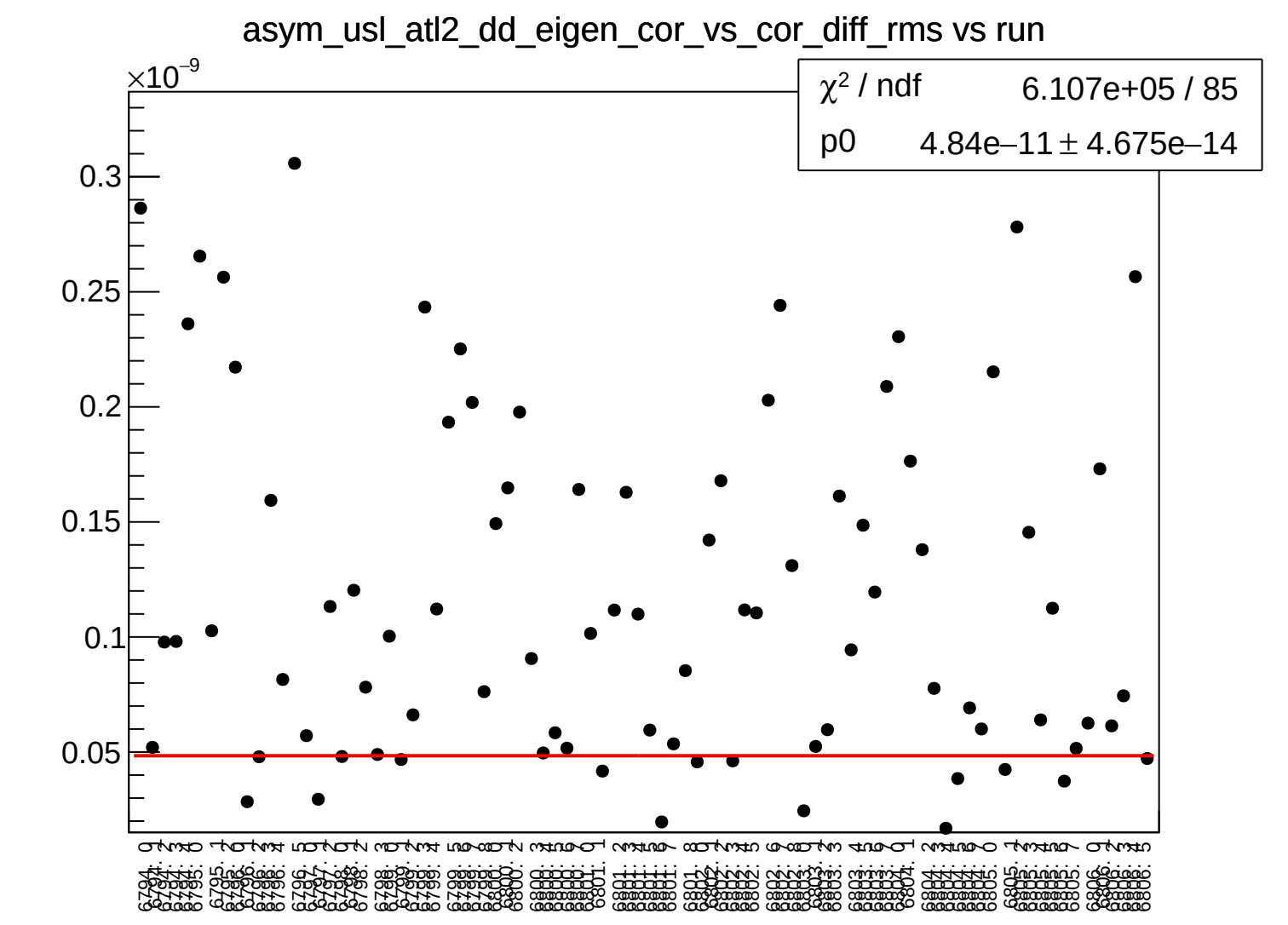

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.44 / 85
p0 −0.363 ± 0.312
pull
Entries 86
Mean −16.66
Std Dev 0

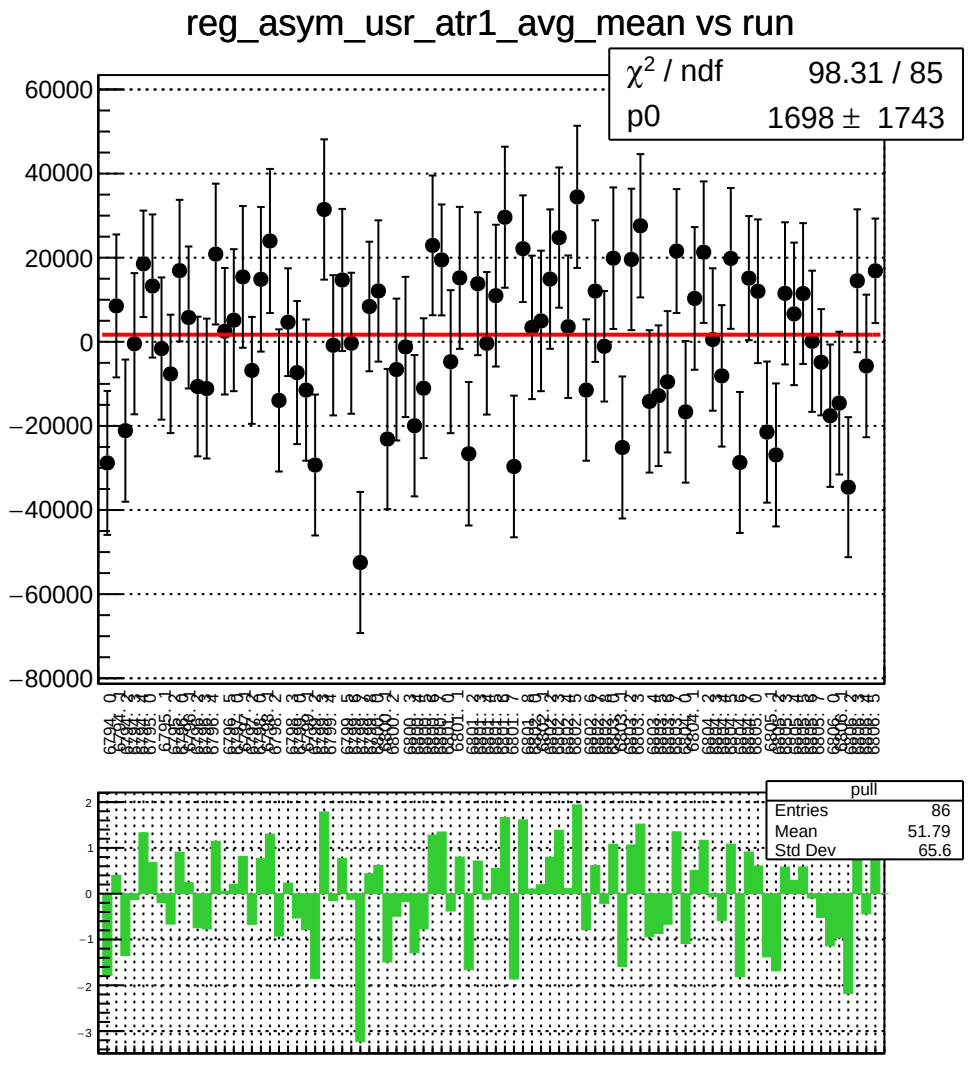

pull1D
Entries 86
Mean 0.02843
Std Dev 0.9964

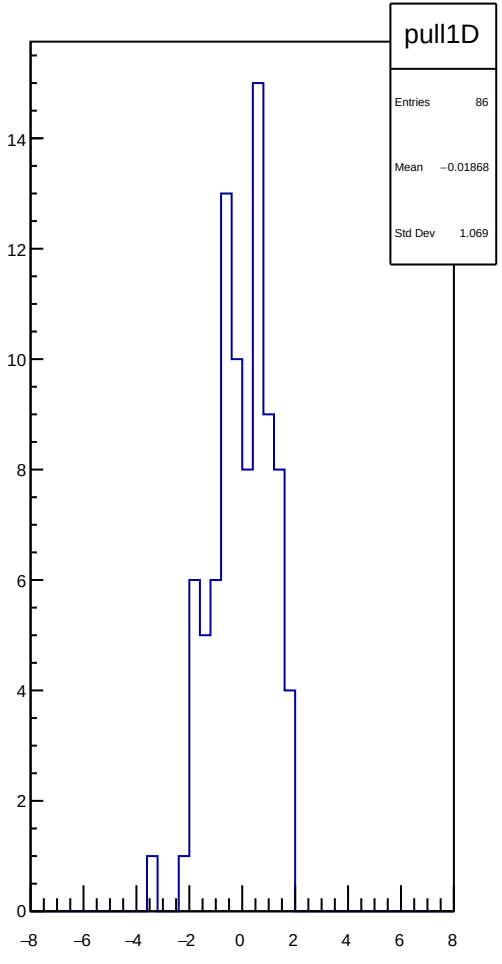

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.691e+04 / 85
p0 284.7 ± 0.2206
450
400
350
300
250

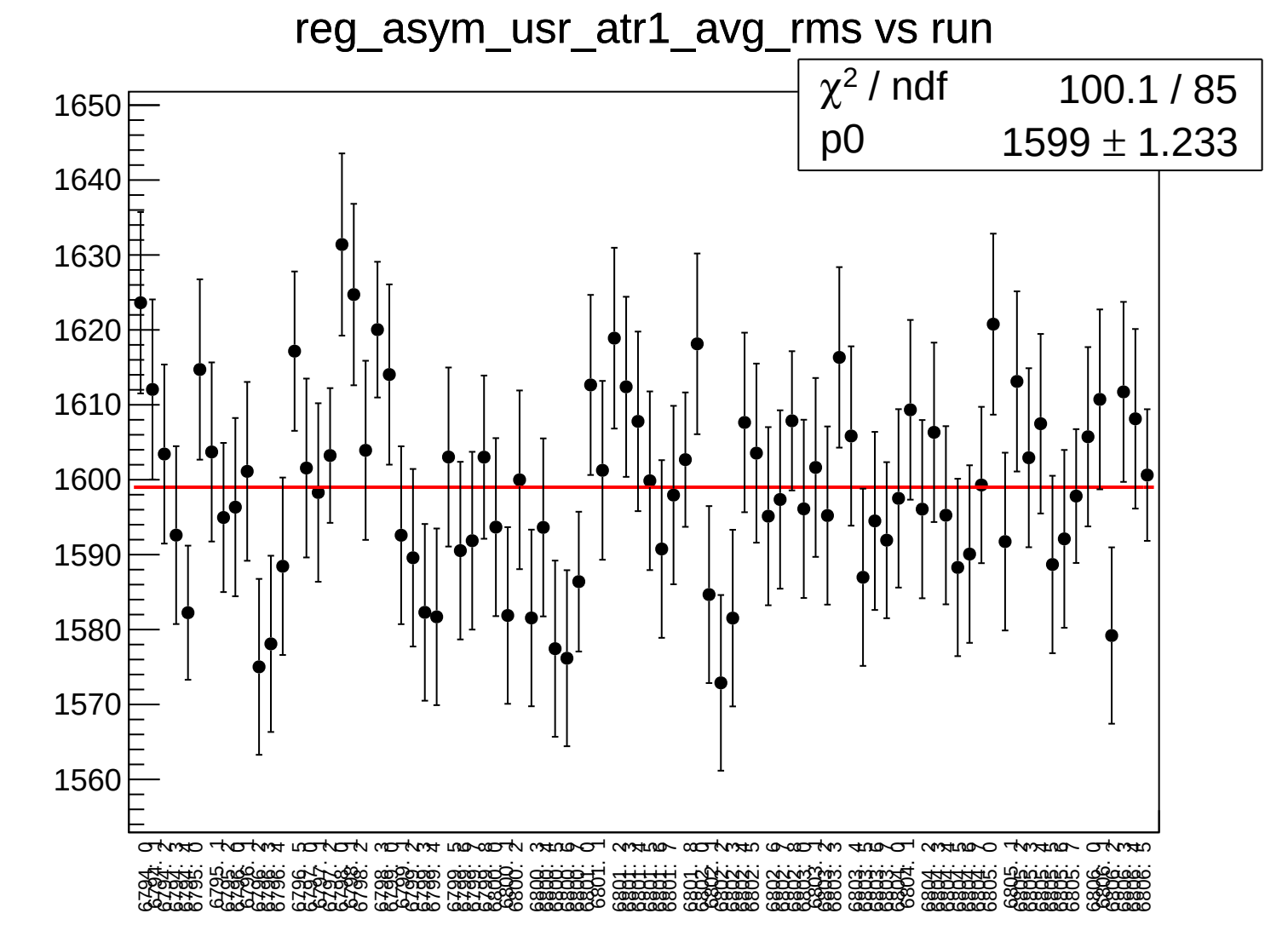

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.32 / 85
p0 −4.152e−14 ± 6.612e−14
pull
Entries 86
Mean −29.41
Std Dev 0

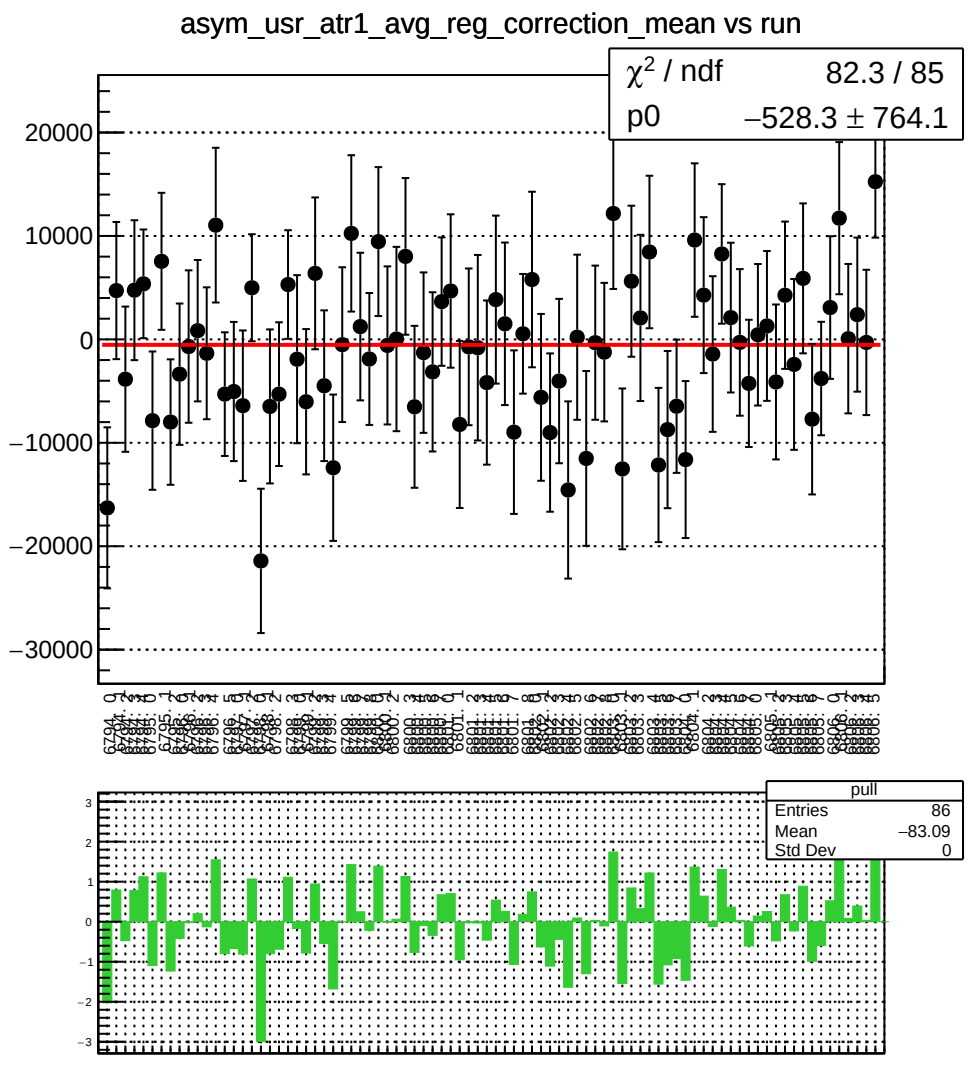

pull1D
Entries 86
Mean 0.03217
Std Dev 1.063

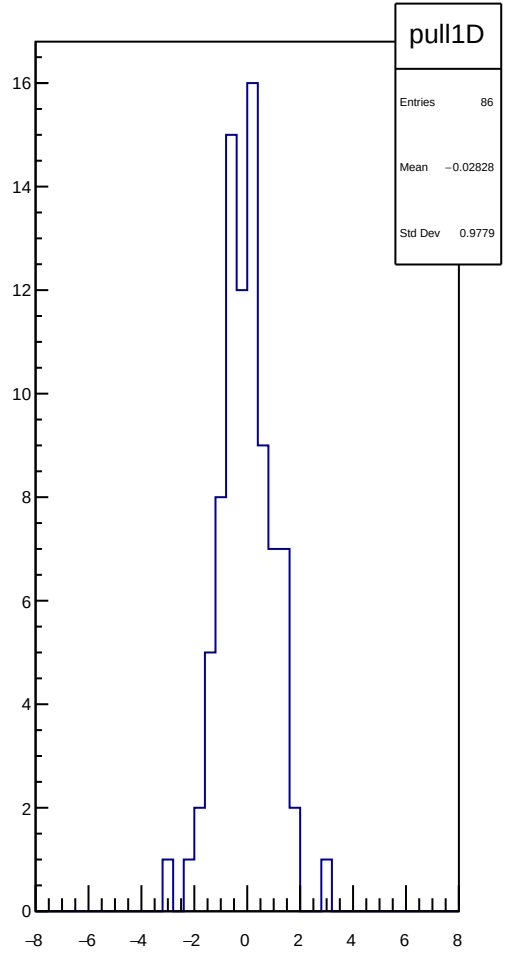

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.107e+05 / 85
p0 4.84e−11 ± 4.675e−14
0.3
0.25
0.2
0.15
0.1
0.05

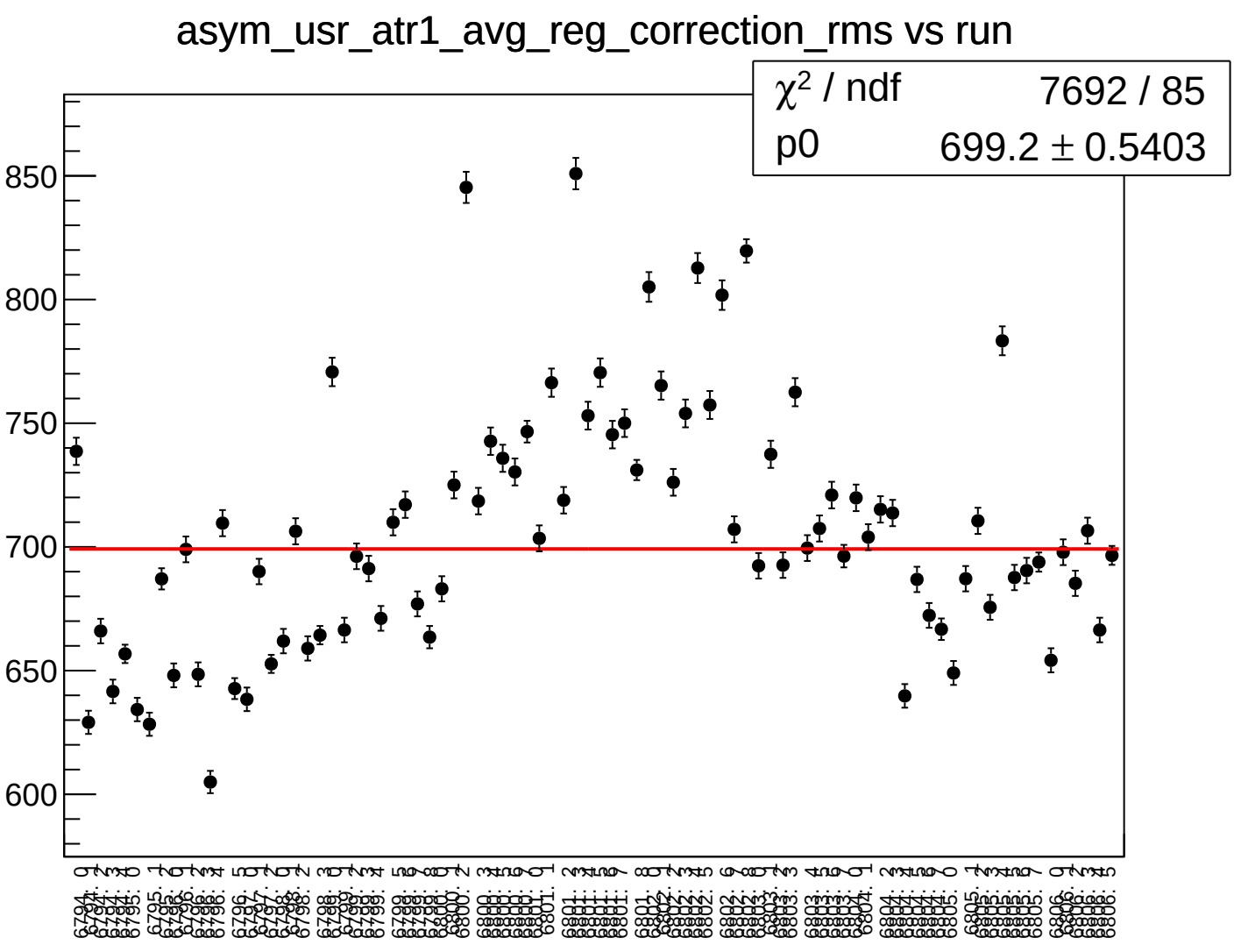

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 98.31 / 85
p0 1698 ± 1743
pull
Entries 86
Mean 51.79
Std Dev 65.6

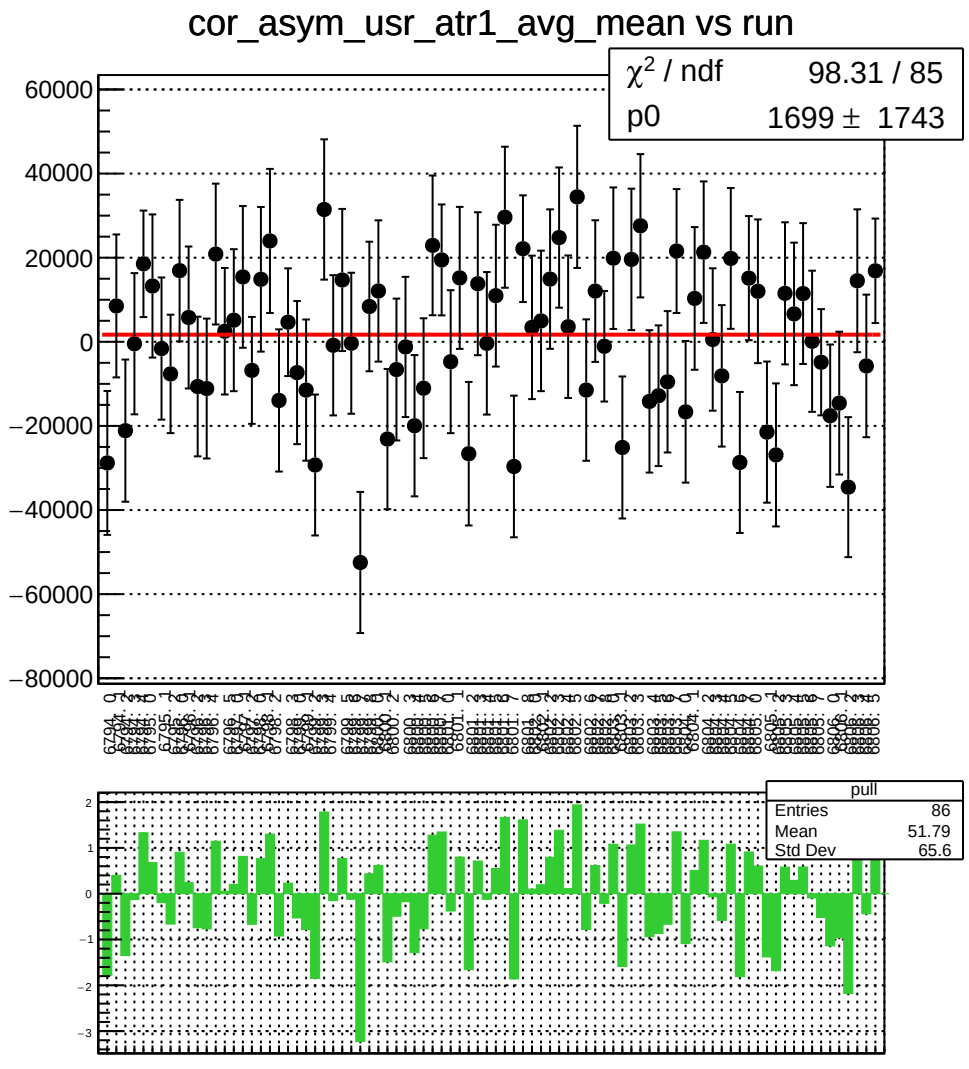

pull1D
Entries 86
Mean −0.01868
Std Dev 1.069

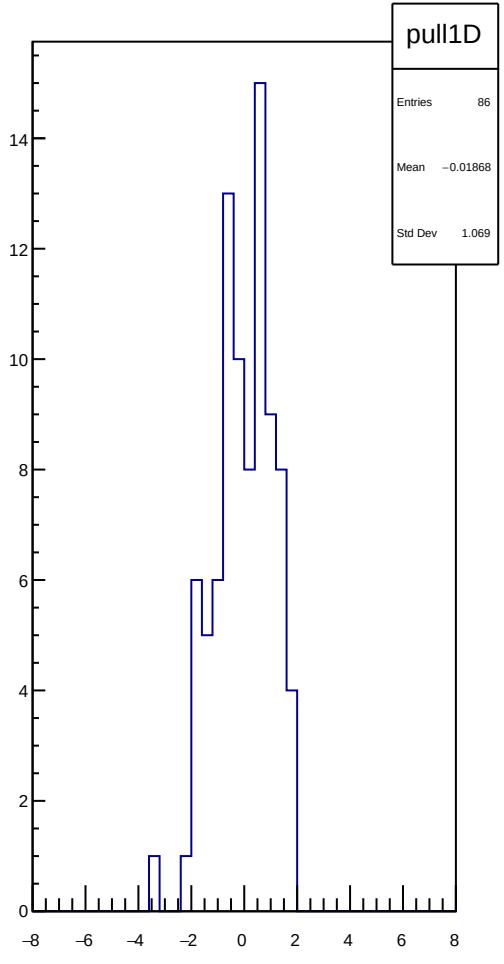

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.1 / 85
p0 1599 ± 1.233
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

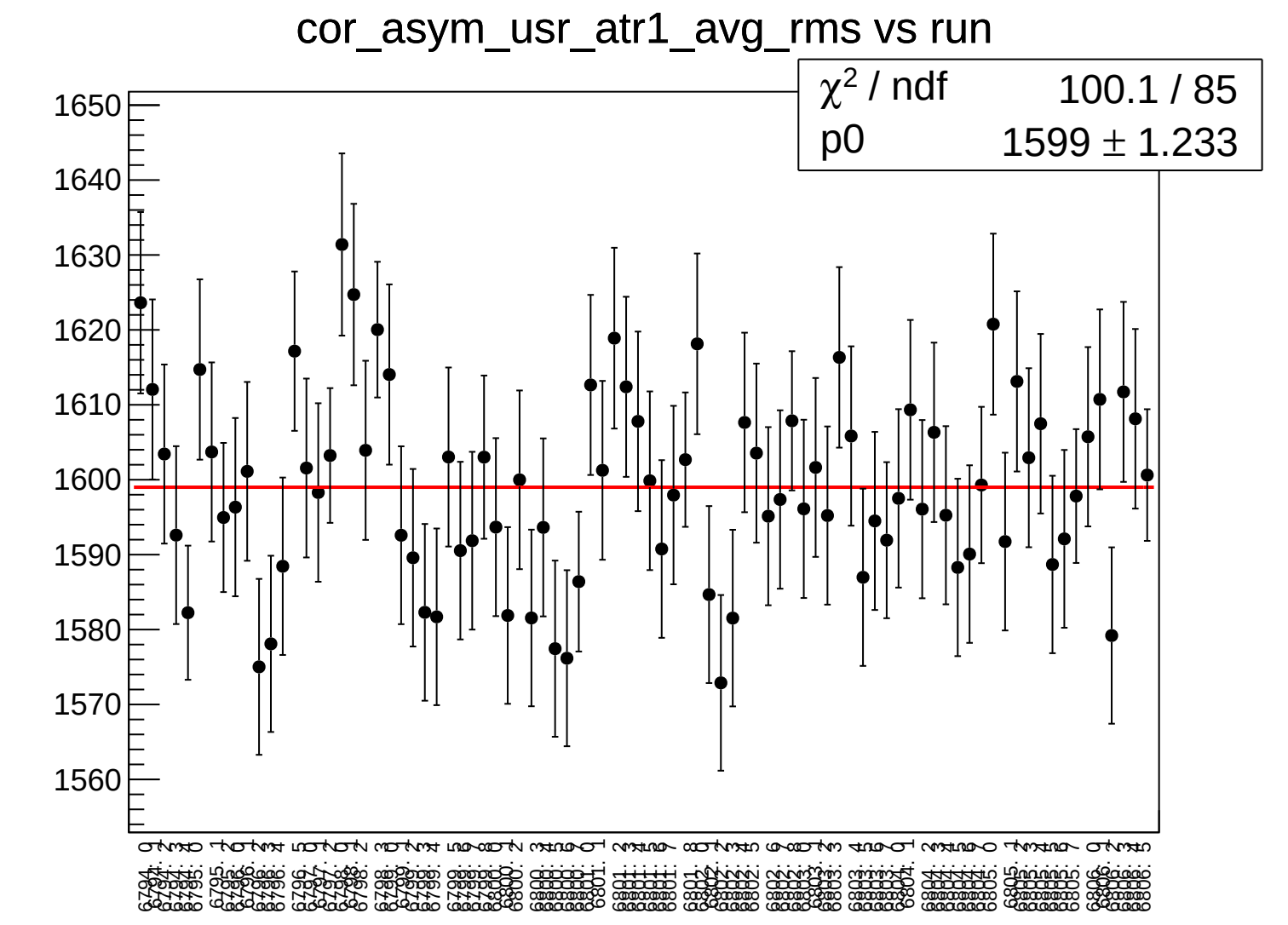

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 82.3 / 85
p0 −528.3 ± 764.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −83.09
Std Dev 0
3
2
1
0
−1
−2
−3

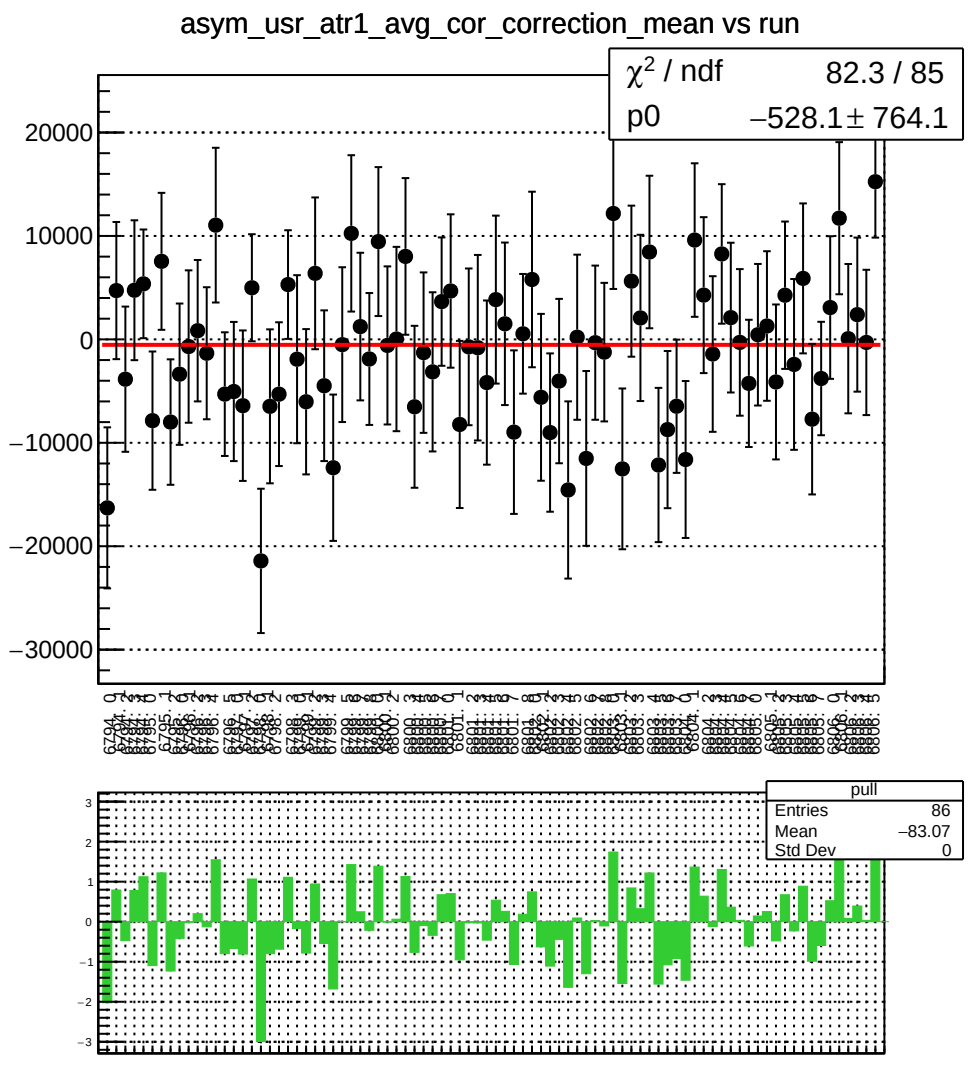

pull1D
Entries 86
Mean −0.02828
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

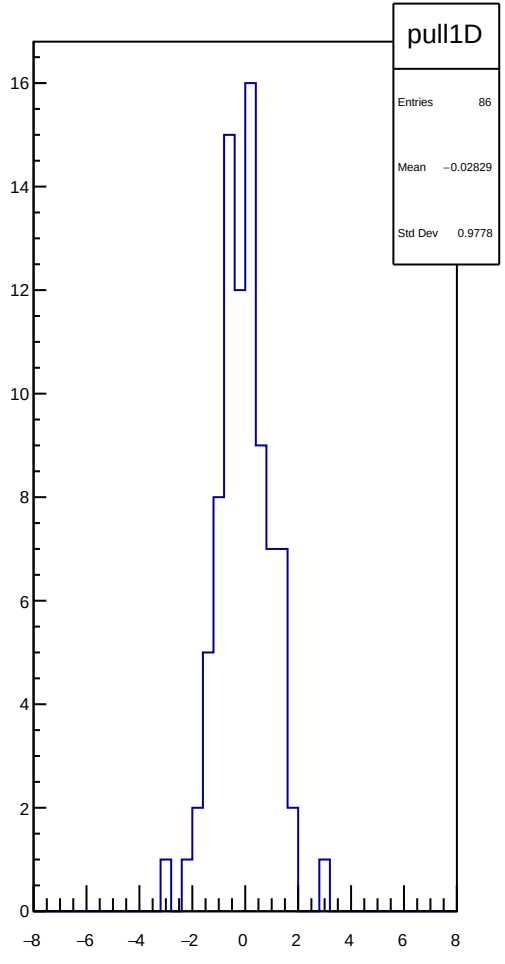

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 7692 / 85
p0 699.2 ± 0.5403
850
800
750
700
650
600

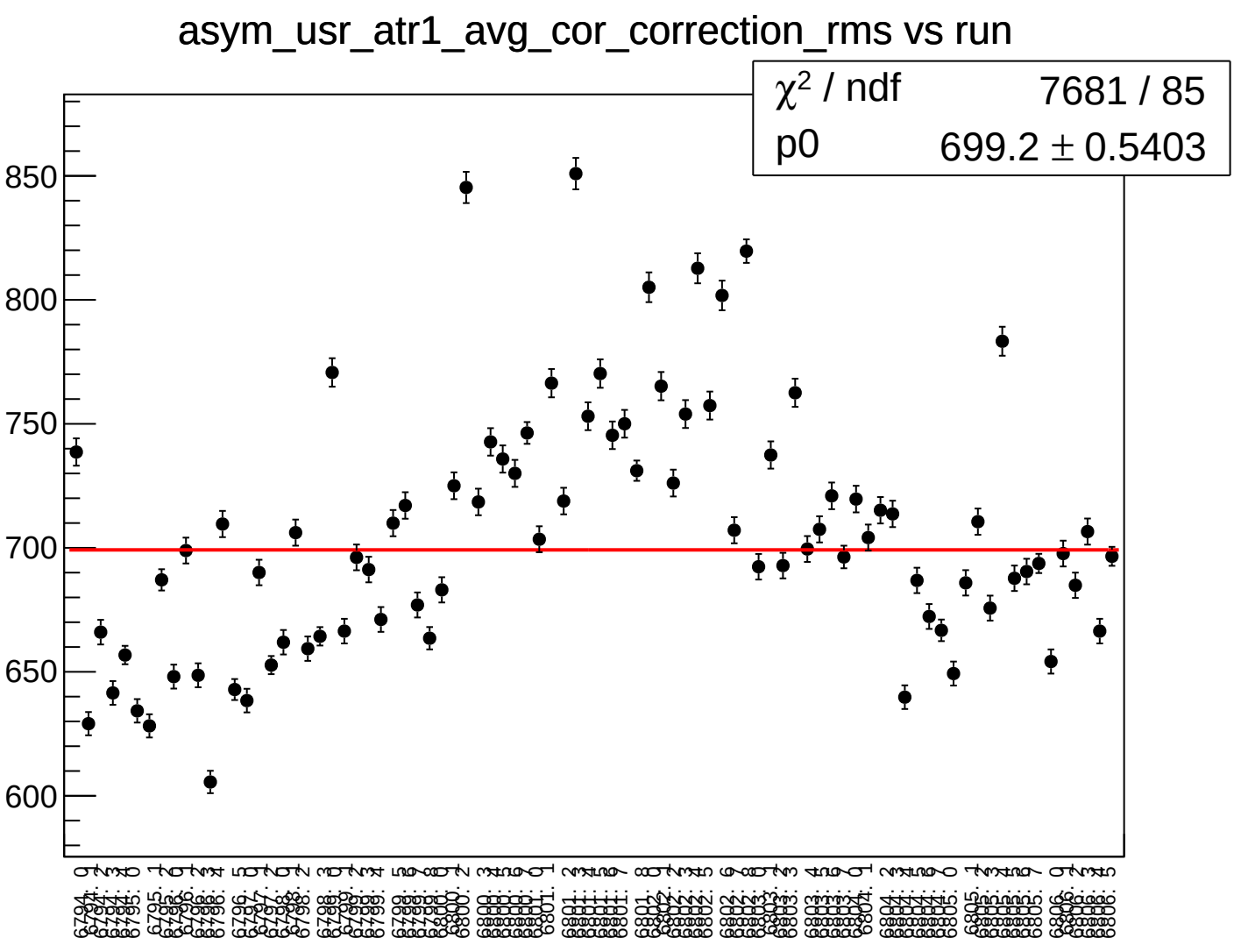

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 98.31 / 85
p0 1699 ± 1743
pull
Entries 86
Mean 51.79
Std Dev 65.6

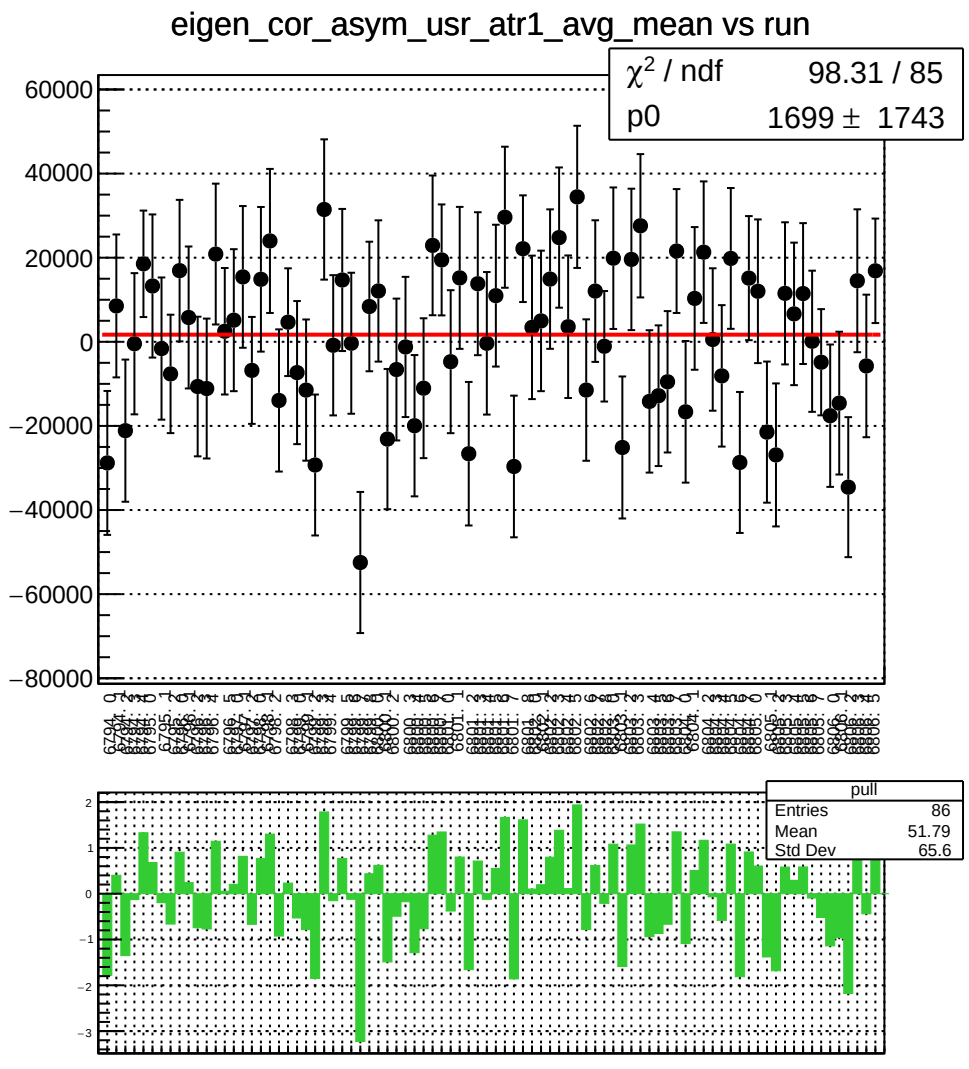

pull1D
Entries 86
Mean −0.01868
Std Dev 1.069

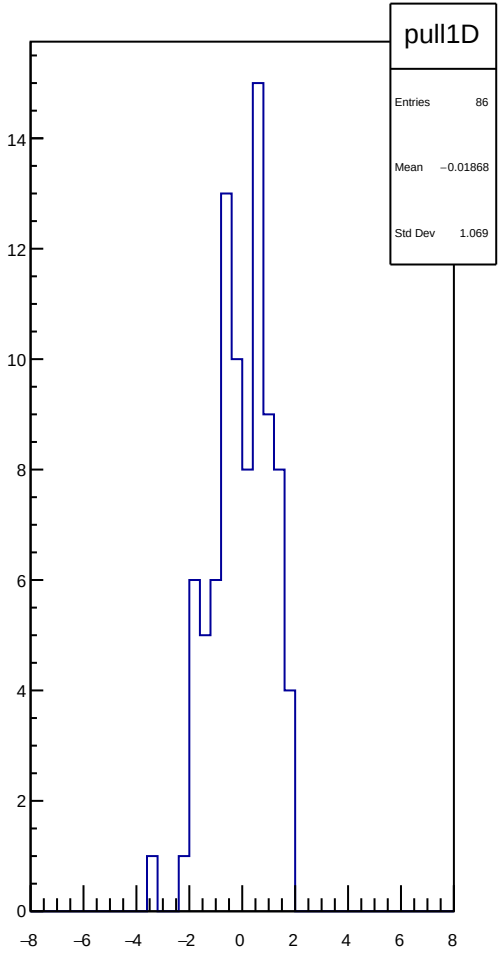

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.1 / 85
p0 1599 ± 1.233
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

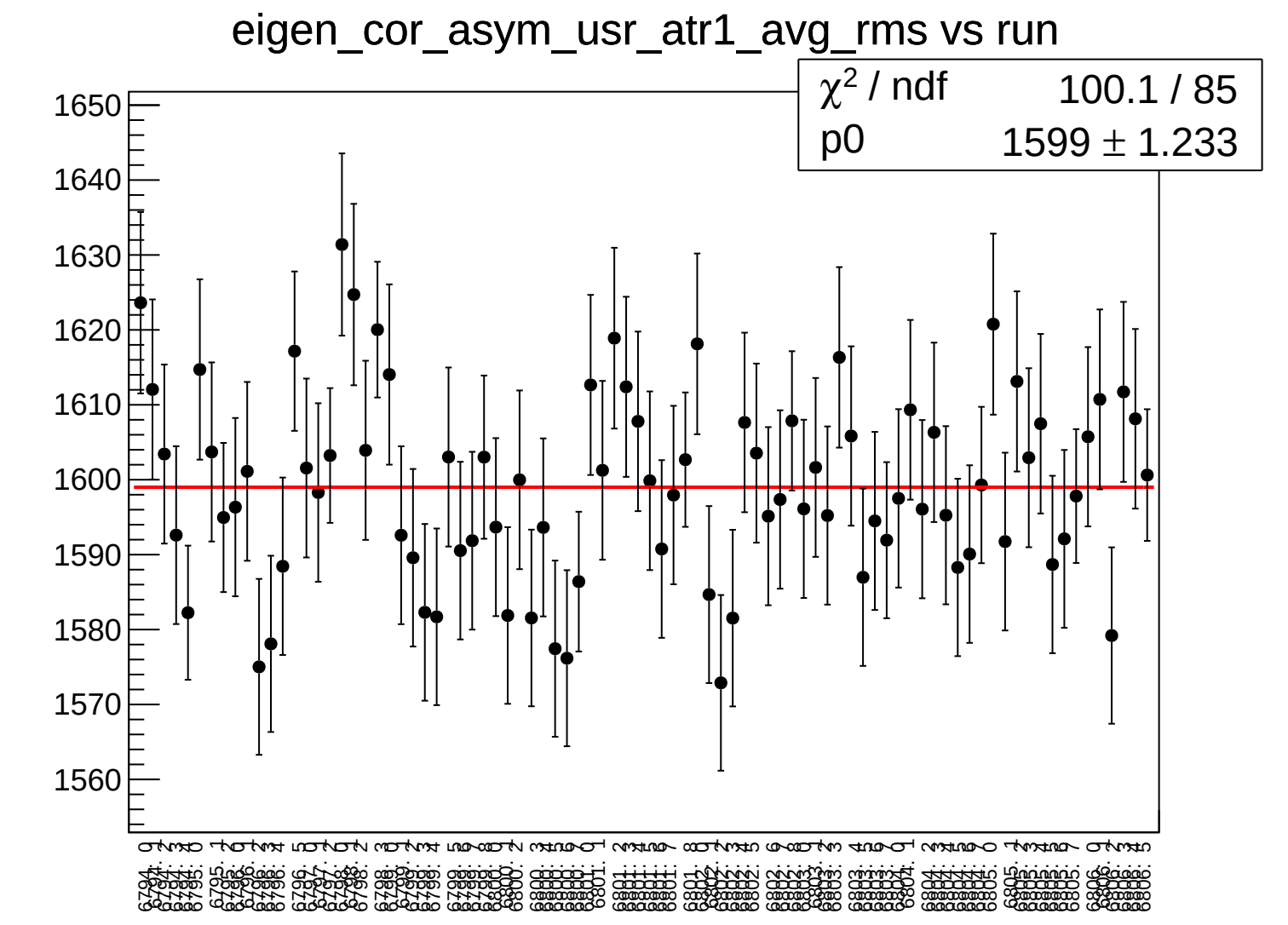

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 82.3 / 85
p0 −528.1 ± 764.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −83.07
Std Dev 0
3
2
1
0
−1
−2
−3

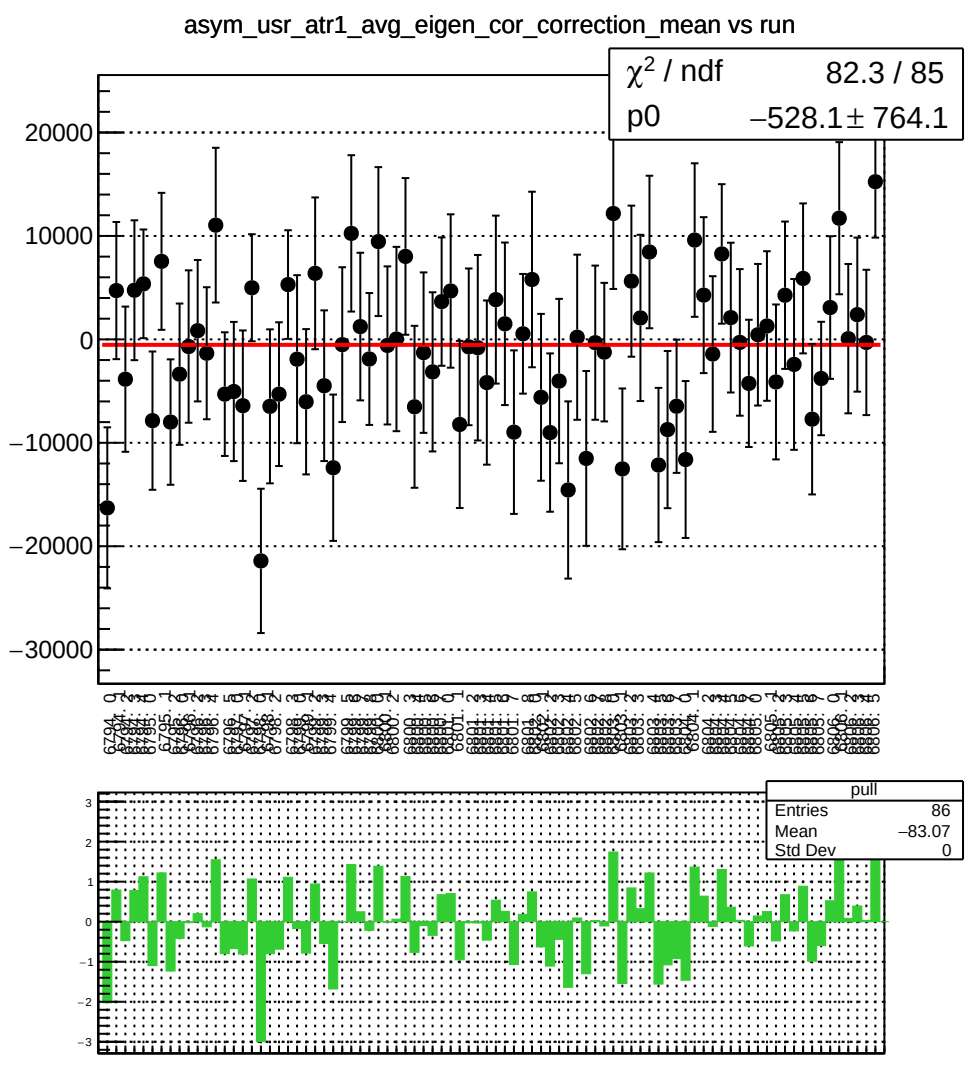

pull1D
Entries 86
Mean −0.02829
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

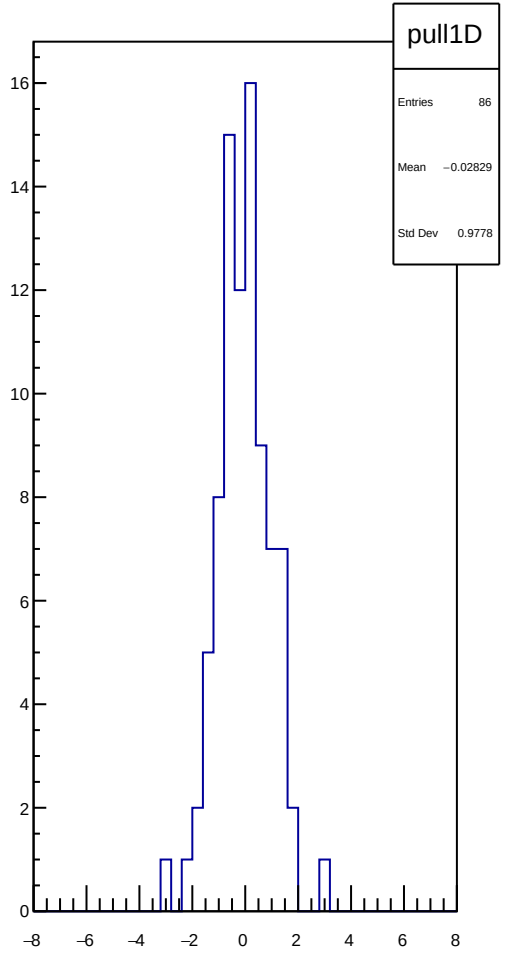

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 7681 / 85
p0 699.2 ± 0.5403
850
800
750
700
650
600

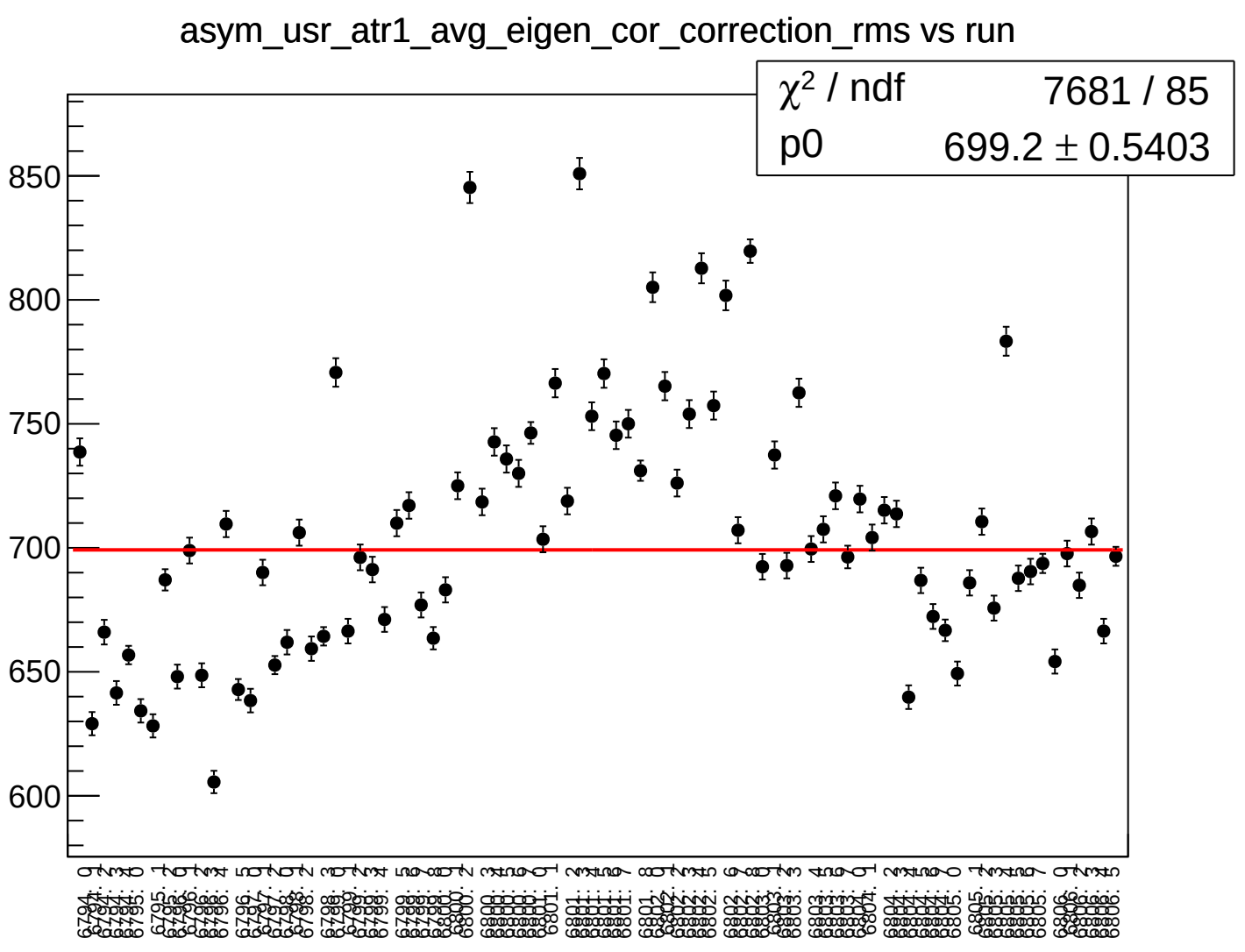

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 98.31 / 85
p0 1699 ± 1743
pull
Entries 86
Mean 51.79
Std Dev 65.6

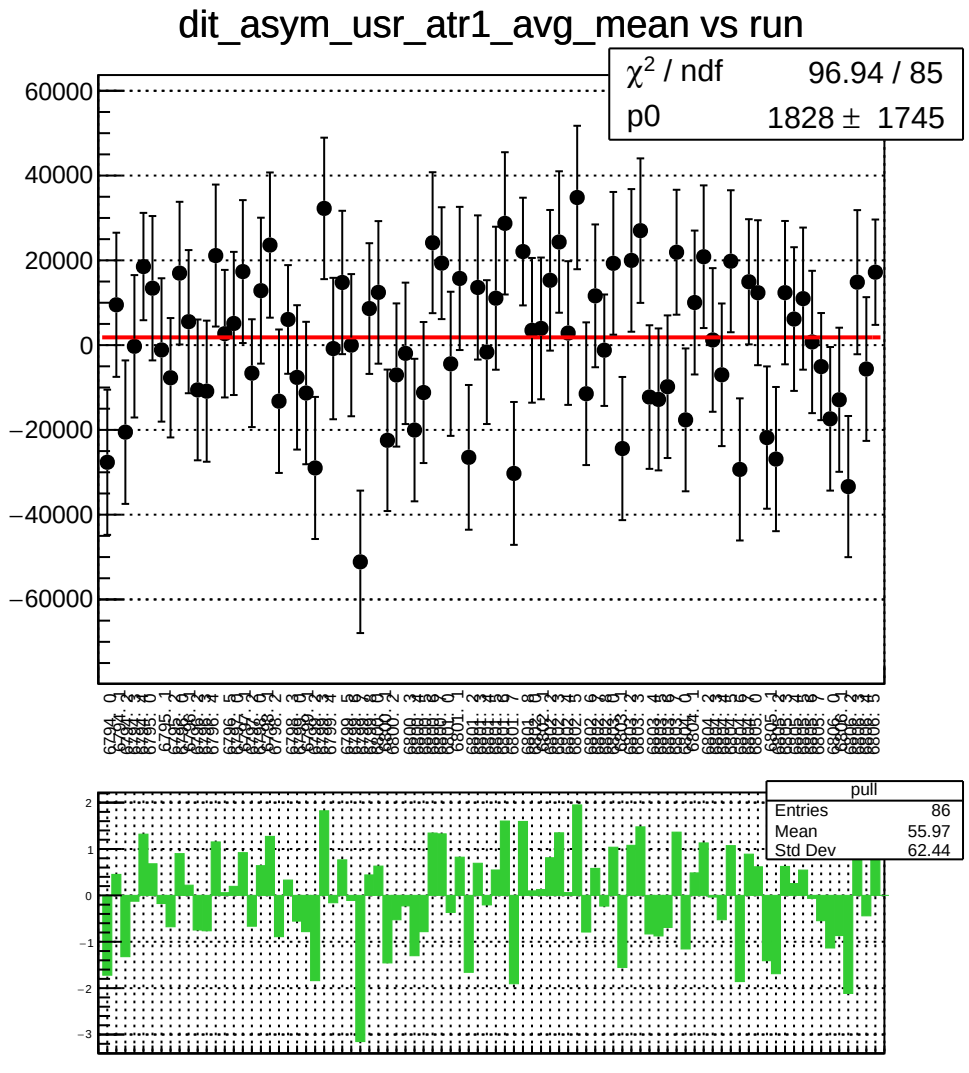

pull1D
Entries 86
Mean −0.01868
Std Dev 1.069

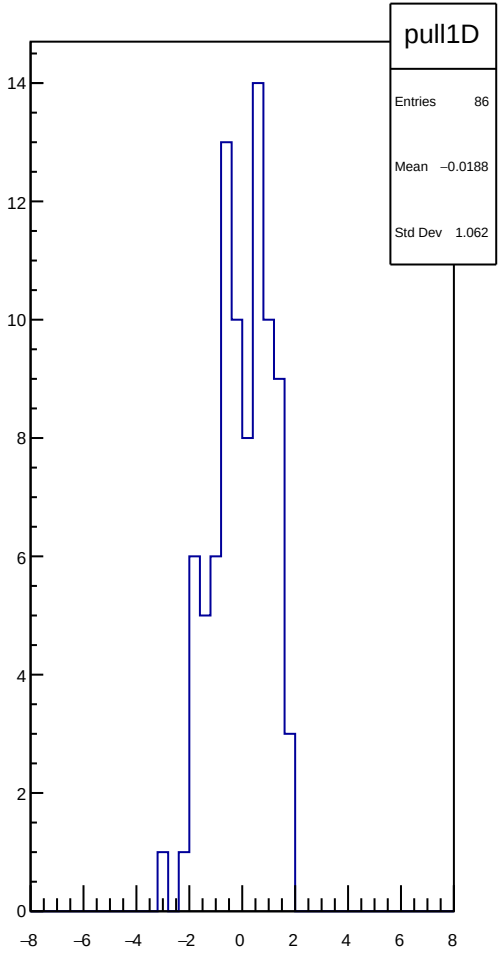

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 100.1 / 85
p0 1599 ± 1.233
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

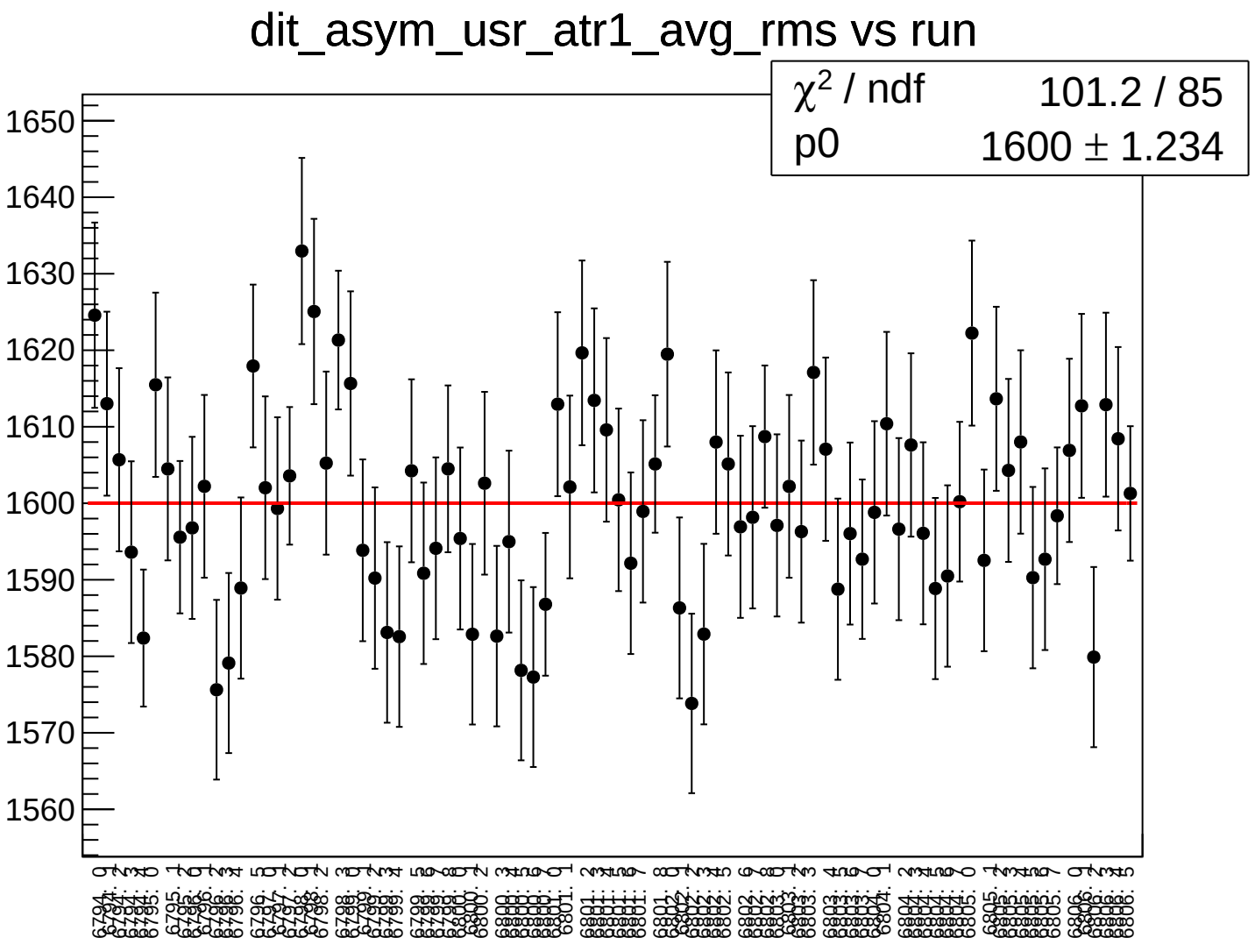

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.3 / 85
p0 −528.1 ± 764.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −83.07
Std Dev 0
3
2
1
0
−1
−2
−3

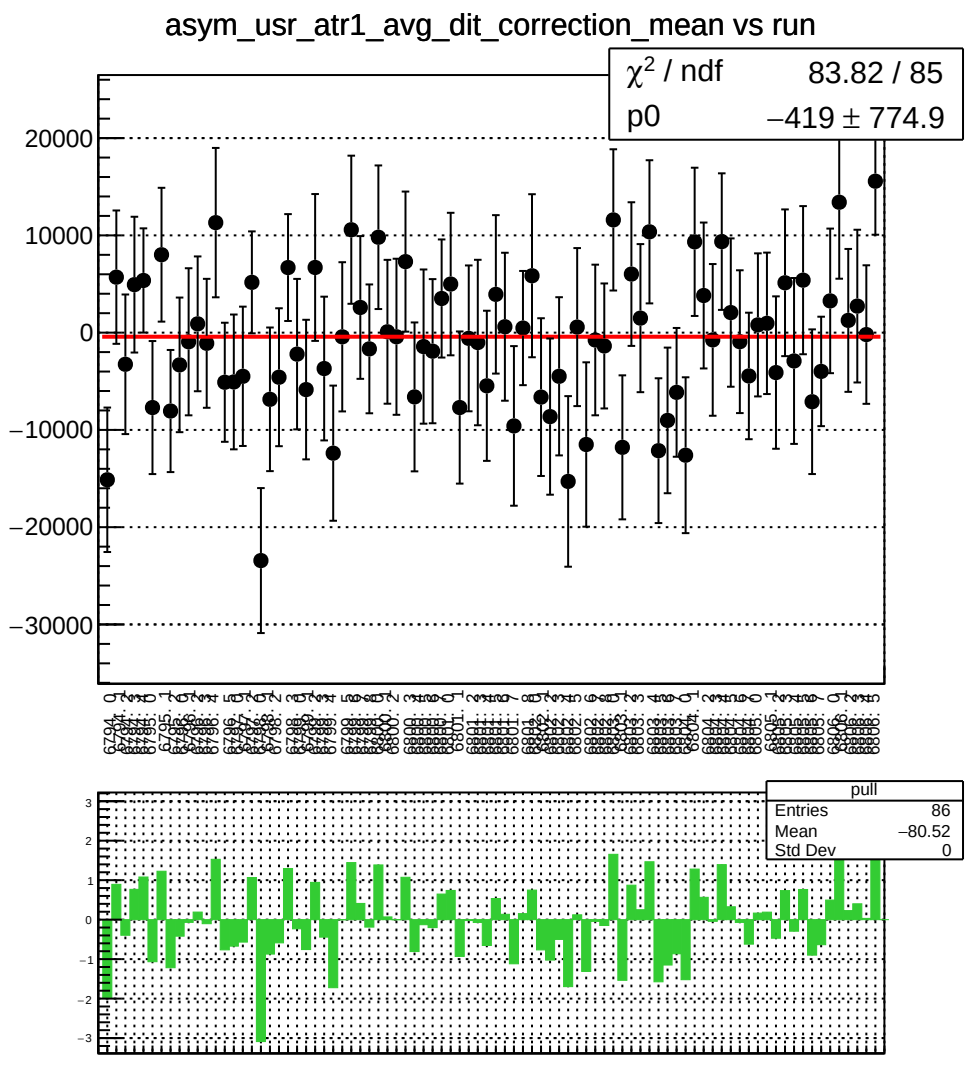

pull1D
Entries 86
Mean −0.02829
Std Dev 0.9778
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

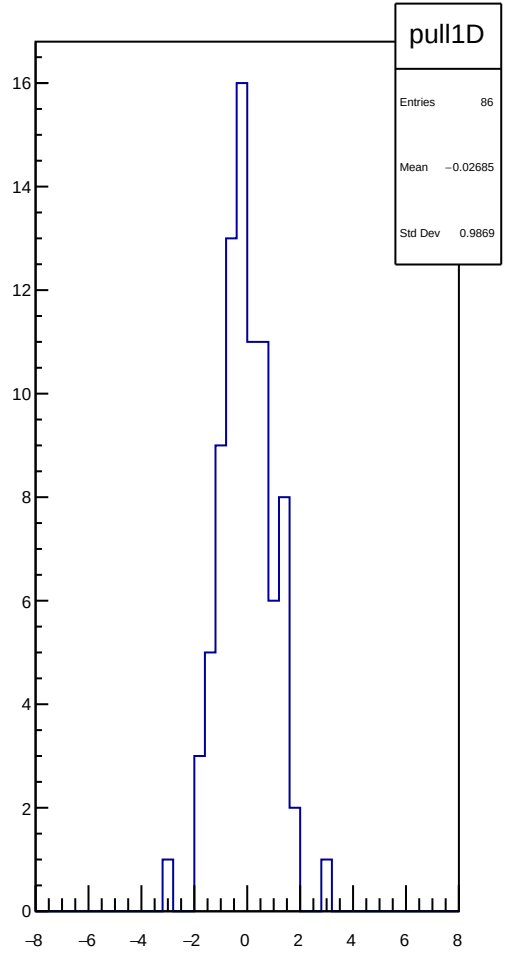

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7681 / 85
p0 699.2 ± 0.5403
850
800
750
700
650
600

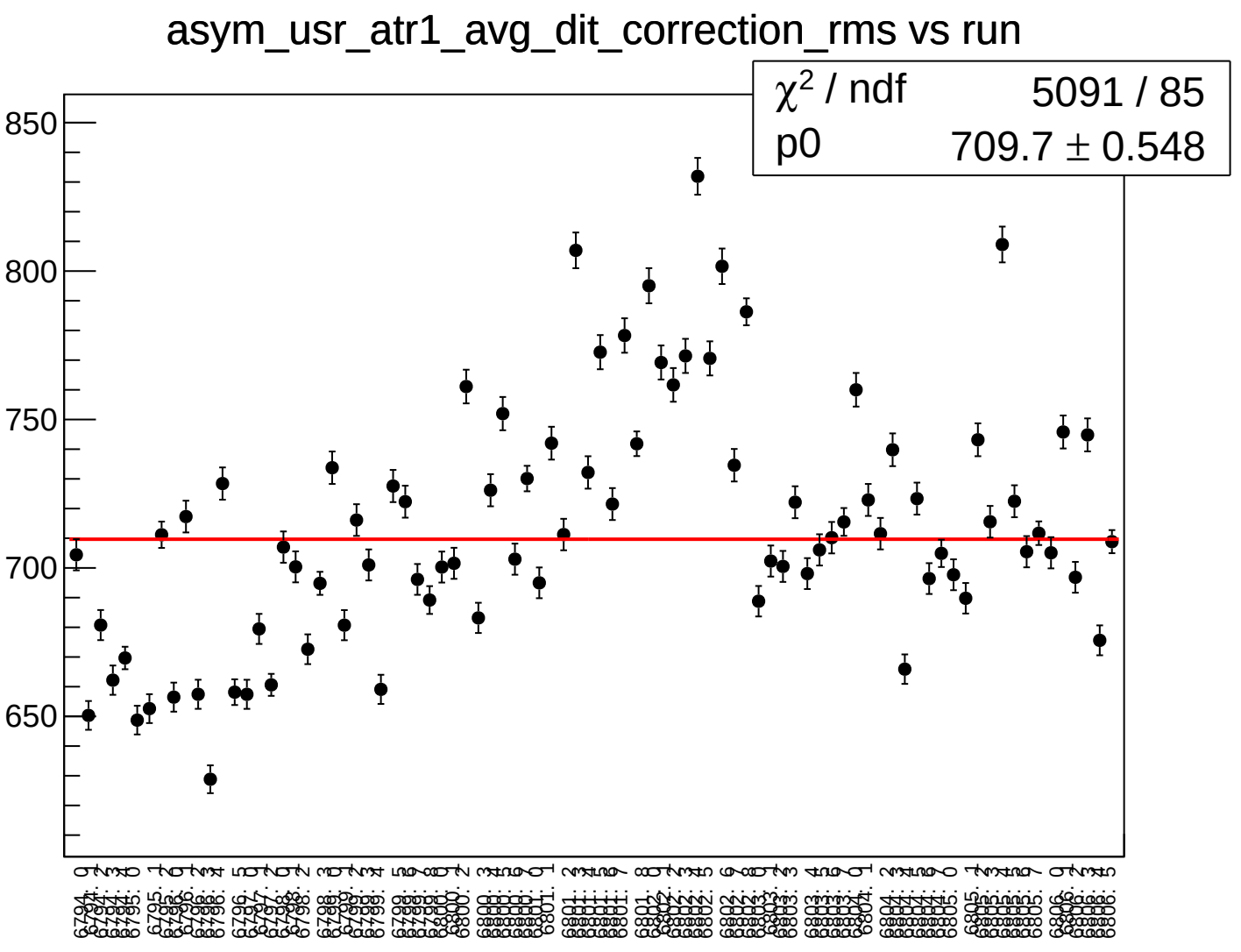

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 96.94 / 85
p0 1828 ± 1745
pull
Entries 86
Mean 55.97
Std Dev 62.44

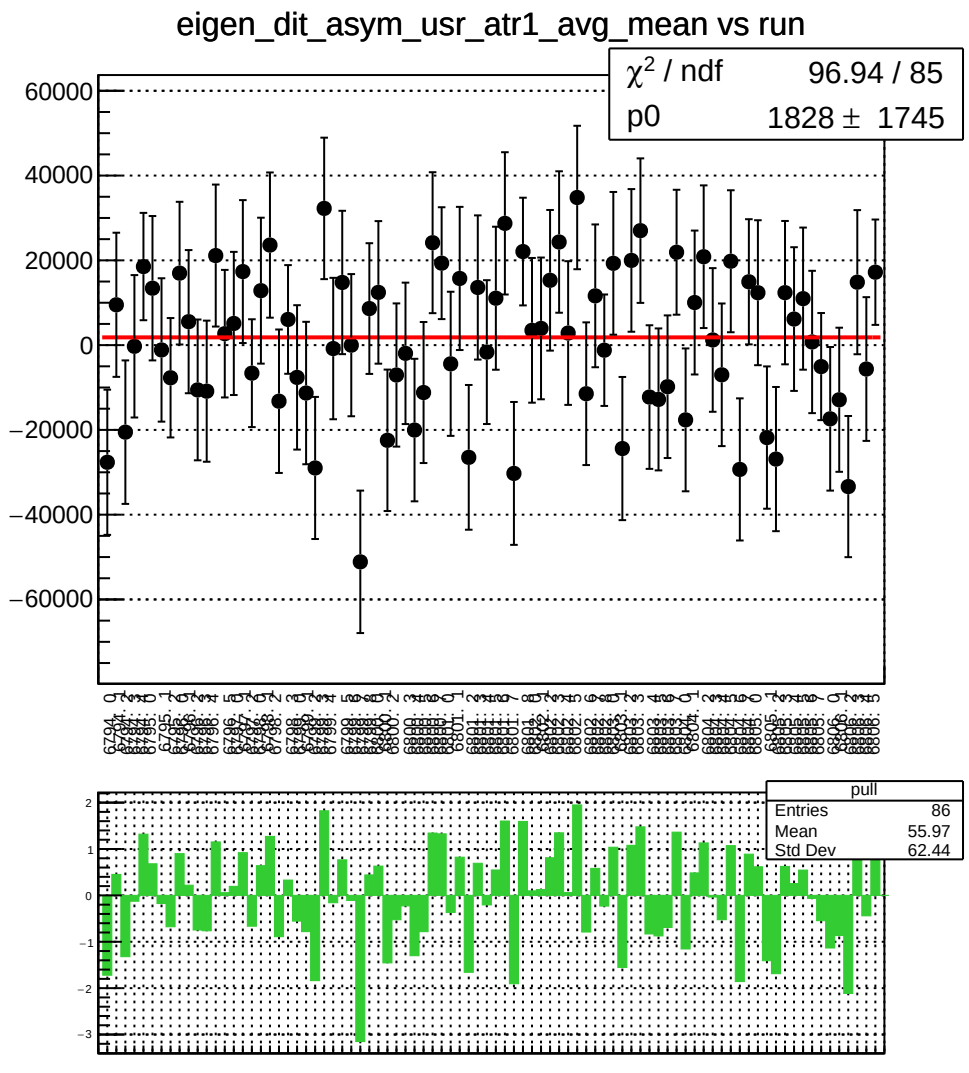

pull1D
Entries 86
Mean −0.0188
Std Dev 1.062

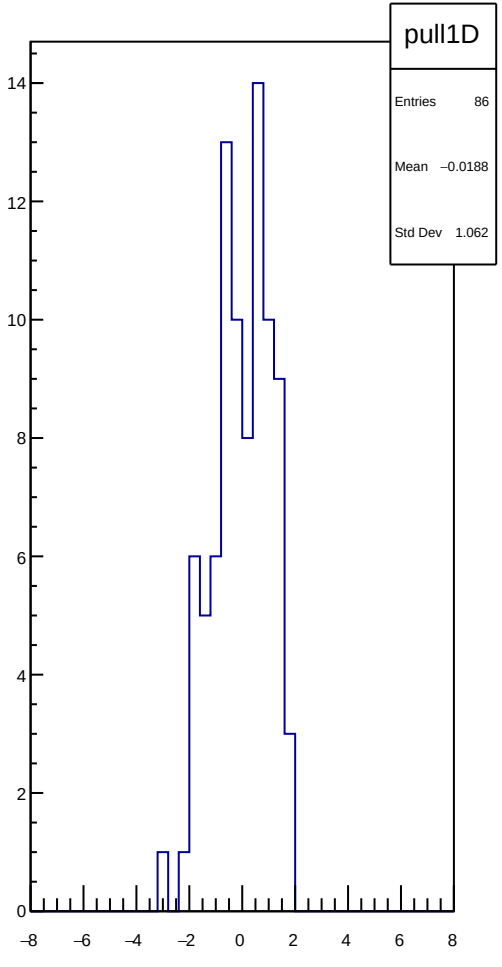

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 101.2 / 85
p0 1600 ± 1.234
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

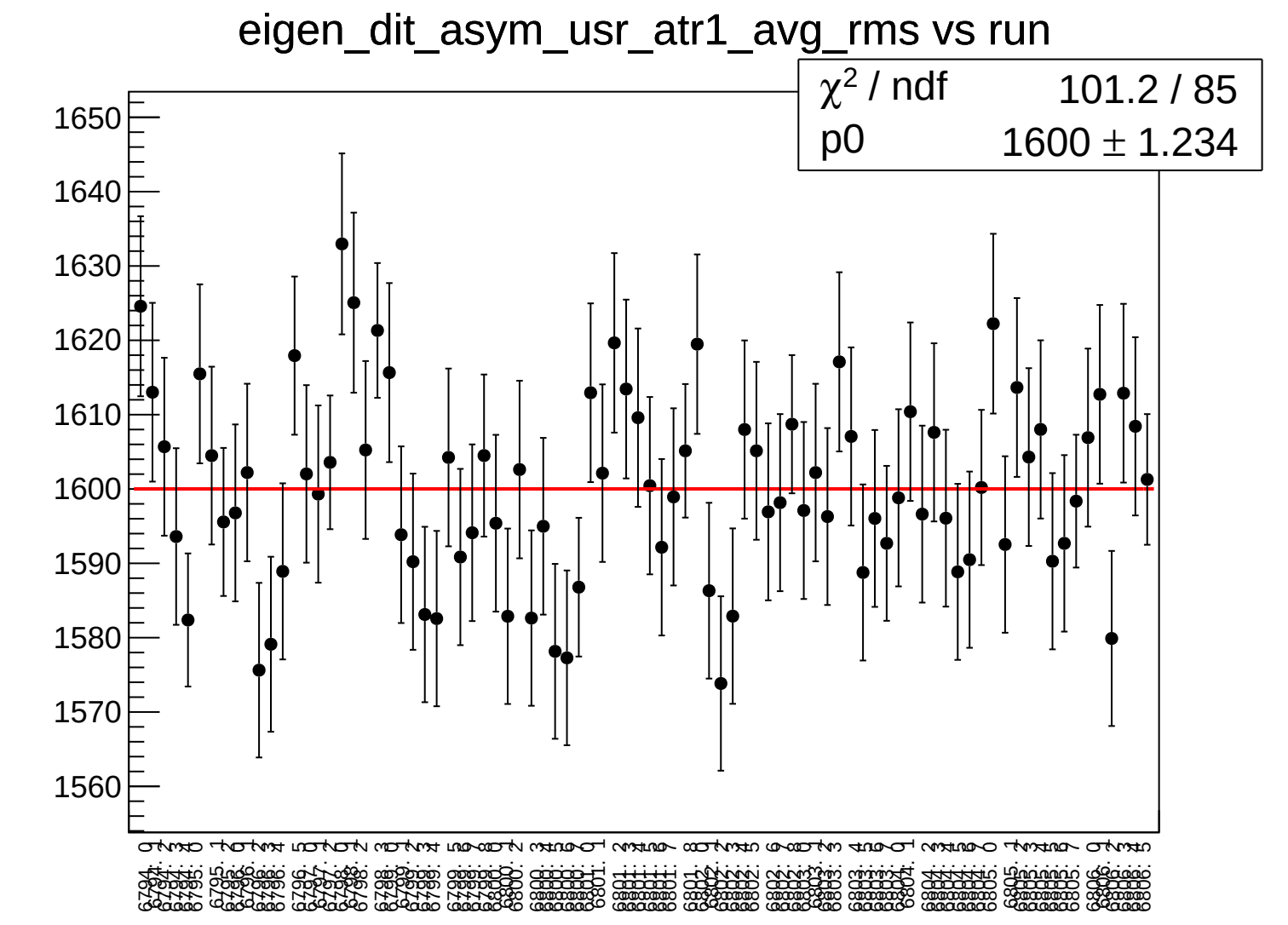

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 83.82 / 85
p0 −419 ± 774.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −80.52
Std Dev 0
3
2
1
0
−1
−2
−3

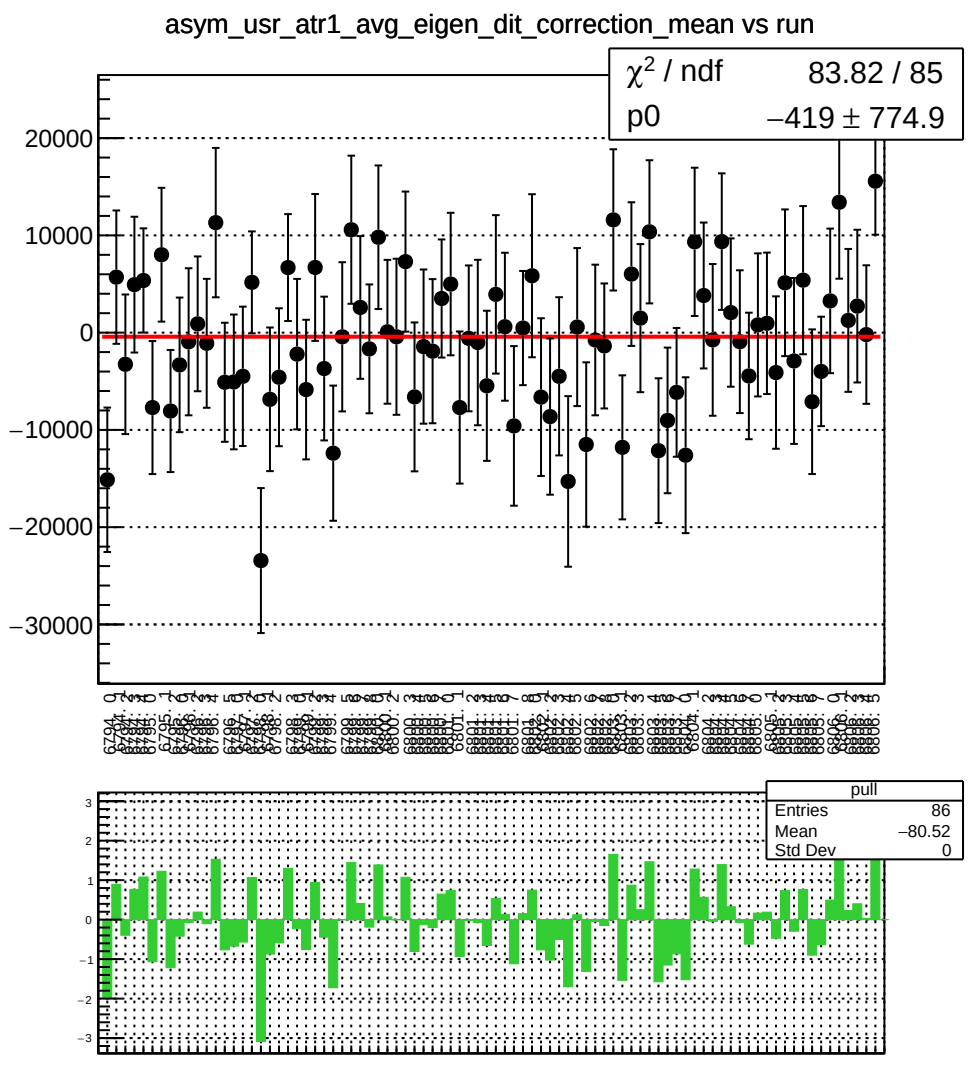

pull1D
Entries 86
Mean −0.02685
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

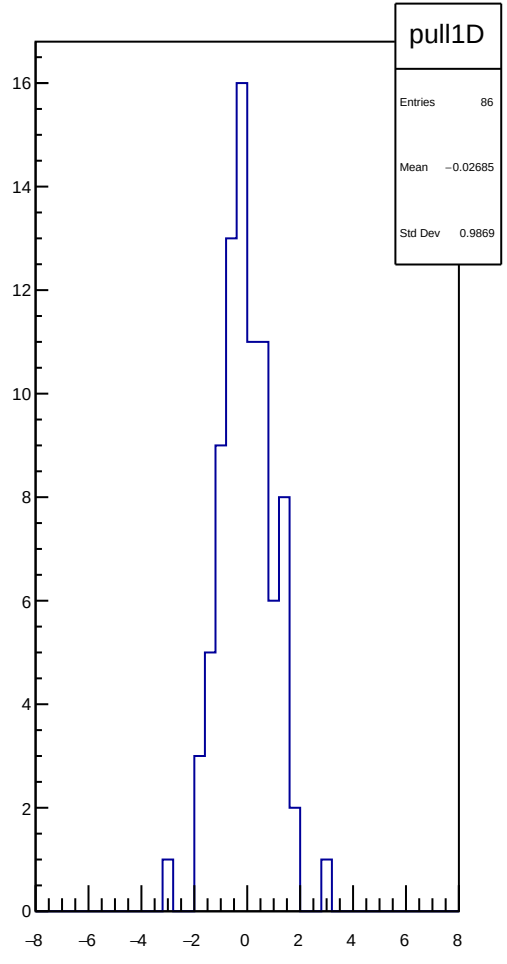

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 5091 / 85
p0 709.7 ± 0.548
850
800
750
700
650

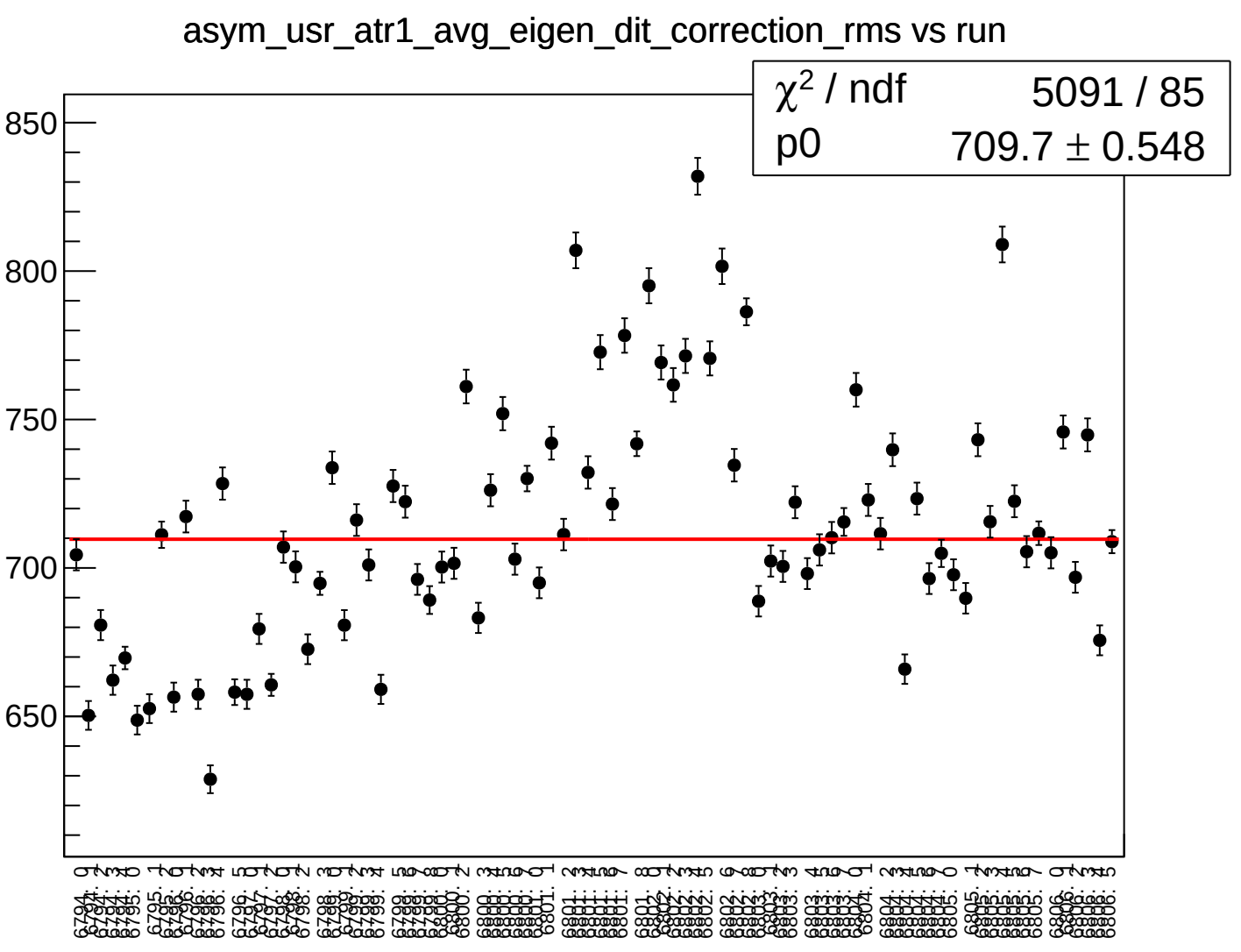

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 96.94 / 85
p0 1828 ± 1745
pull
Entries 86
Mean 55.97
Std Dev 62.44

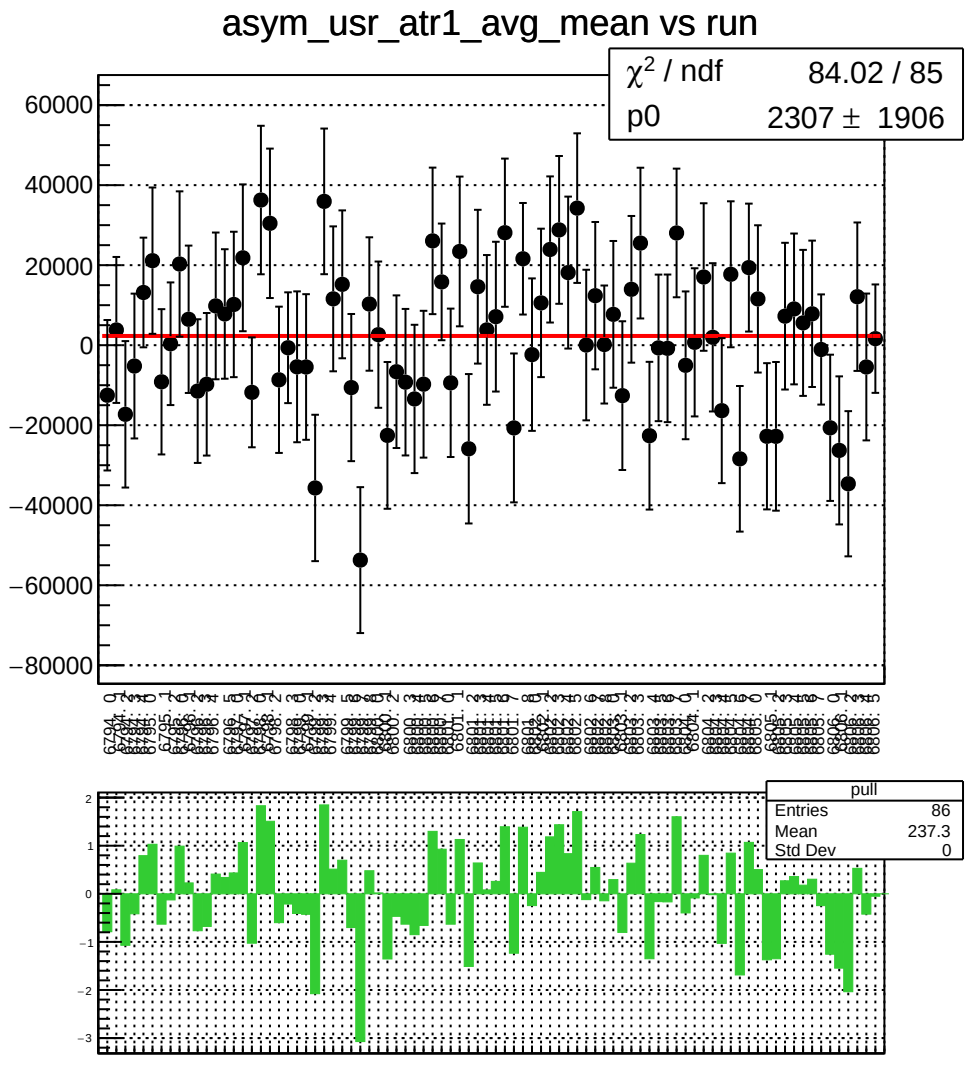

pull1D
Entries 86
Mean −0.0188
Std Dev 1.062

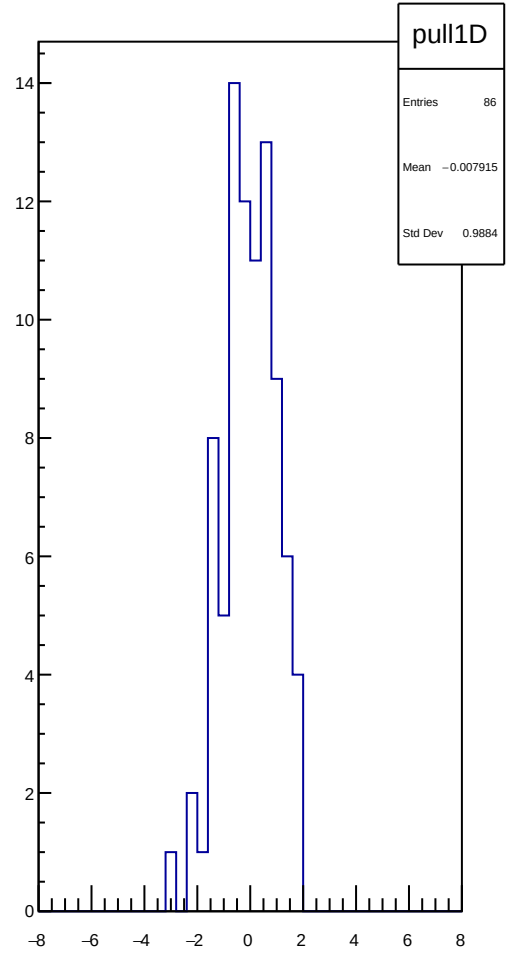

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 101.2 / 85
p0 1600 ± 1.234
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560

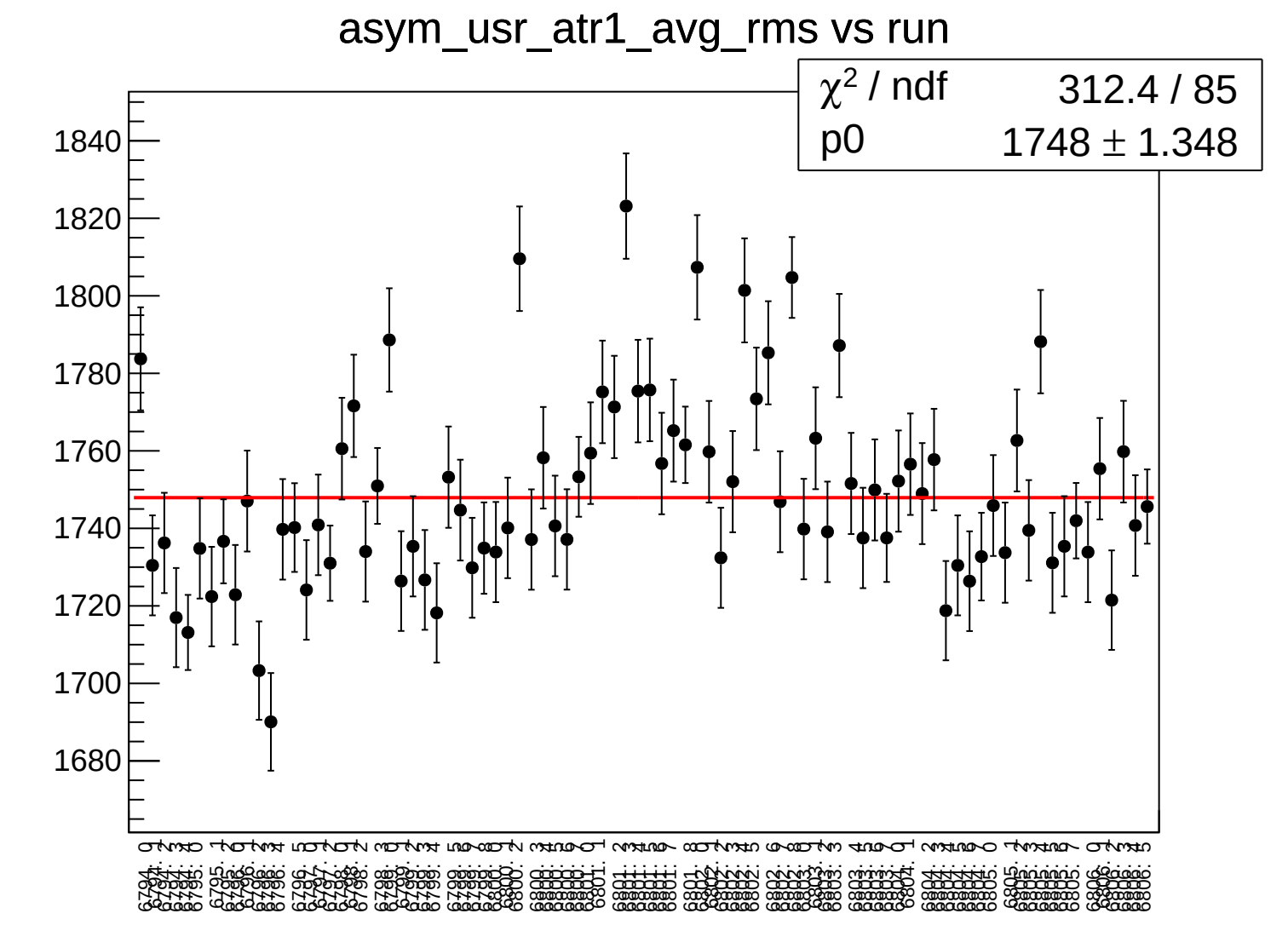

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 83.82 / 85
p0 −419 ± 774.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −80.52
Std Dev 0
3
2
1
0
−1
−2
−3

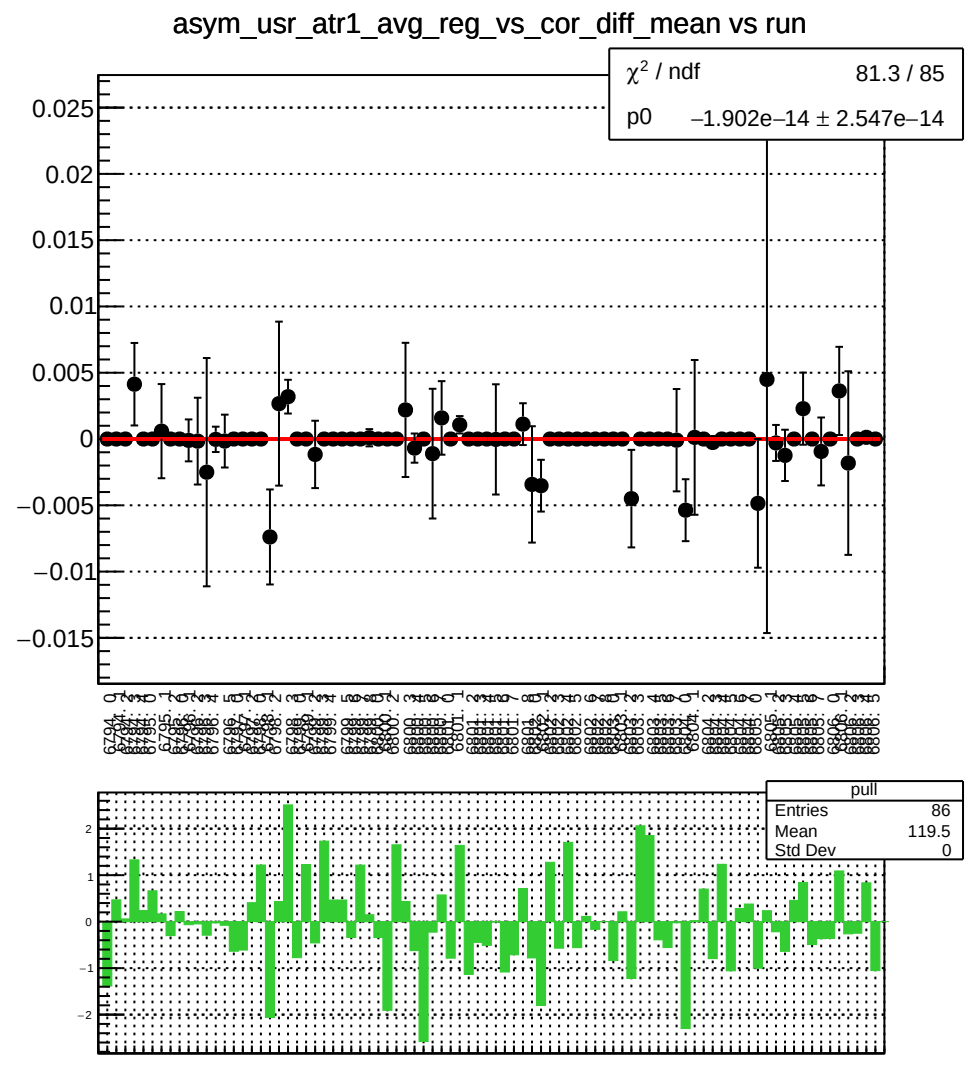

pull1D
Entries 86
Mean −0.02685
Std Dev 0.9869
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

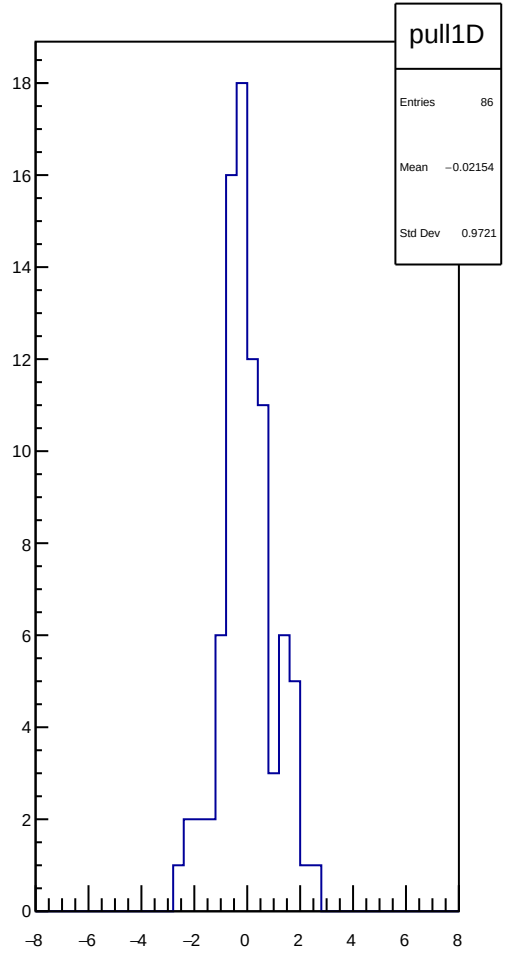

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 5091 / 85
p0 709.7 ± 0.548
850
800
750
700
650

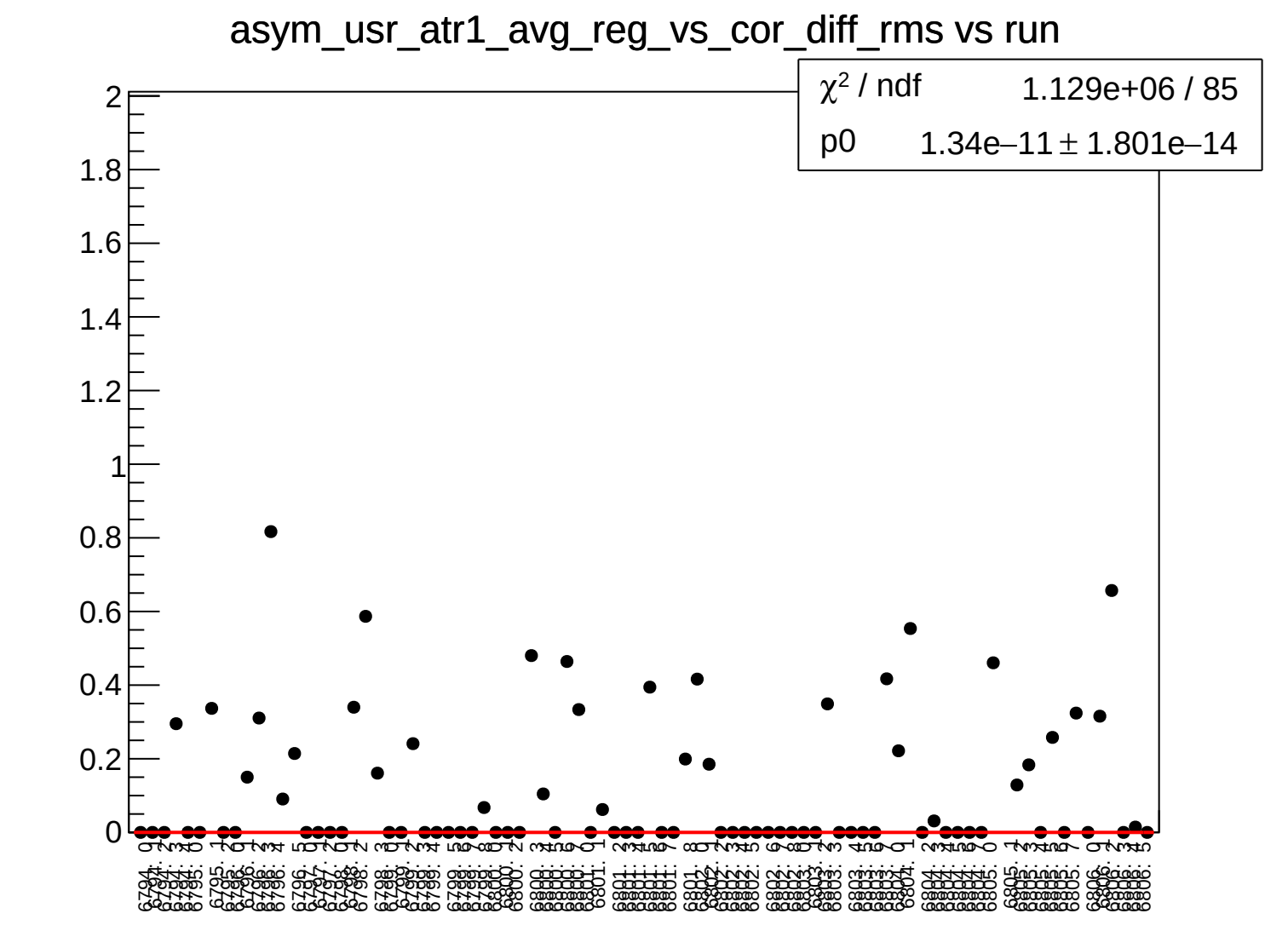

asym_usr_atr1_avg_mean vs run
χ² / ndf 84.02 / 85
p0 2307 ± 1906
pull
Entries 86
Mean 237.3
Std Dev 0

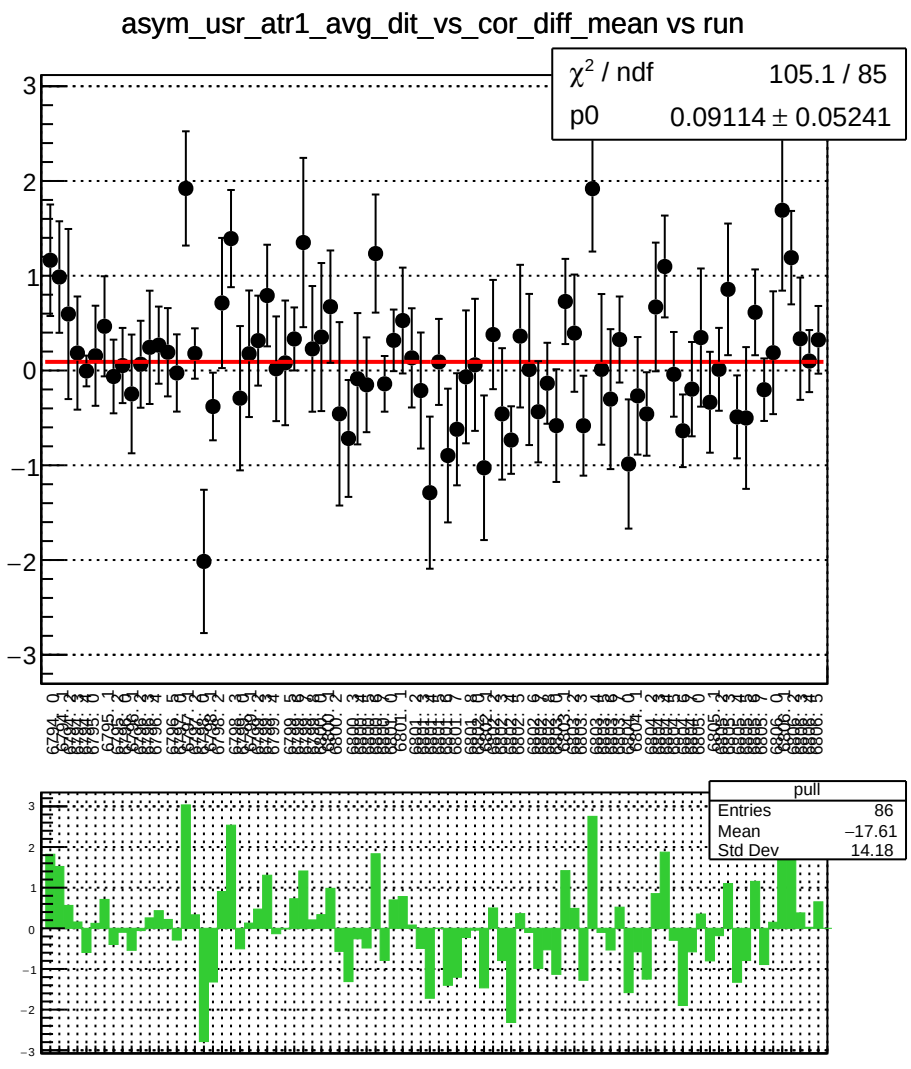

pull1D
Entries 86
Mean −0.007915
Std Dev 0.9884

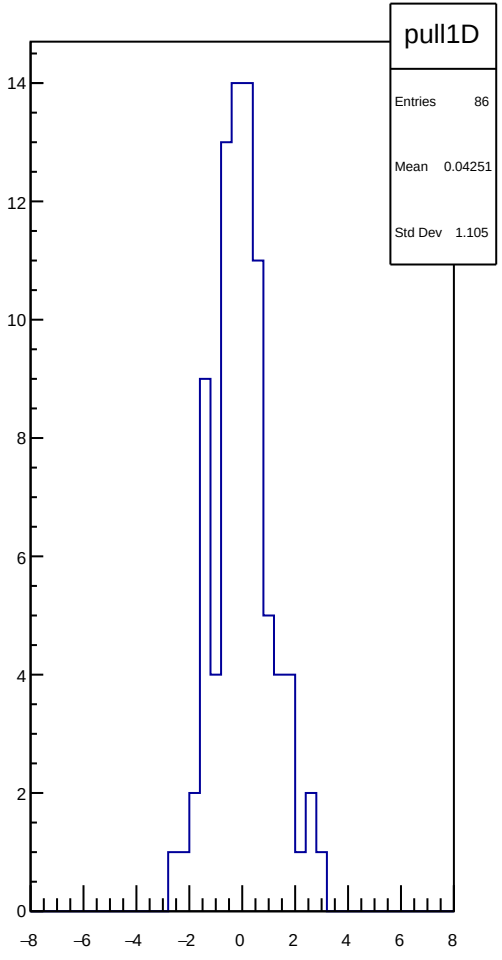

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 312.4 / 85
p0 1748 ± 1.348
1840
1820
1800
1780
1760
1740
1720
1700
1680

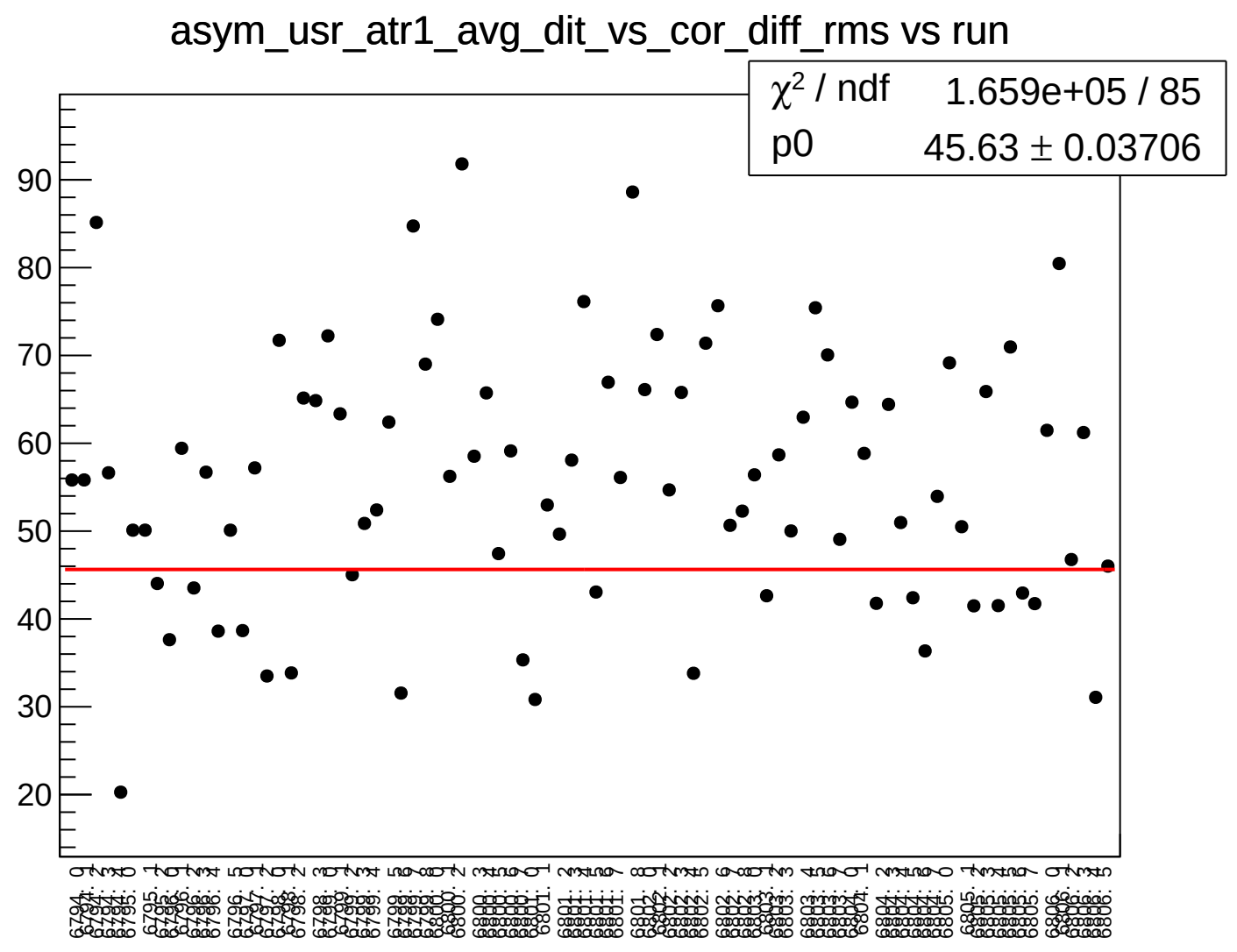

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.3 / 85
p0 −1.902e−14 ± 2.547e−14
pull
Entries 86
Mean 119.5
Std Dev 0

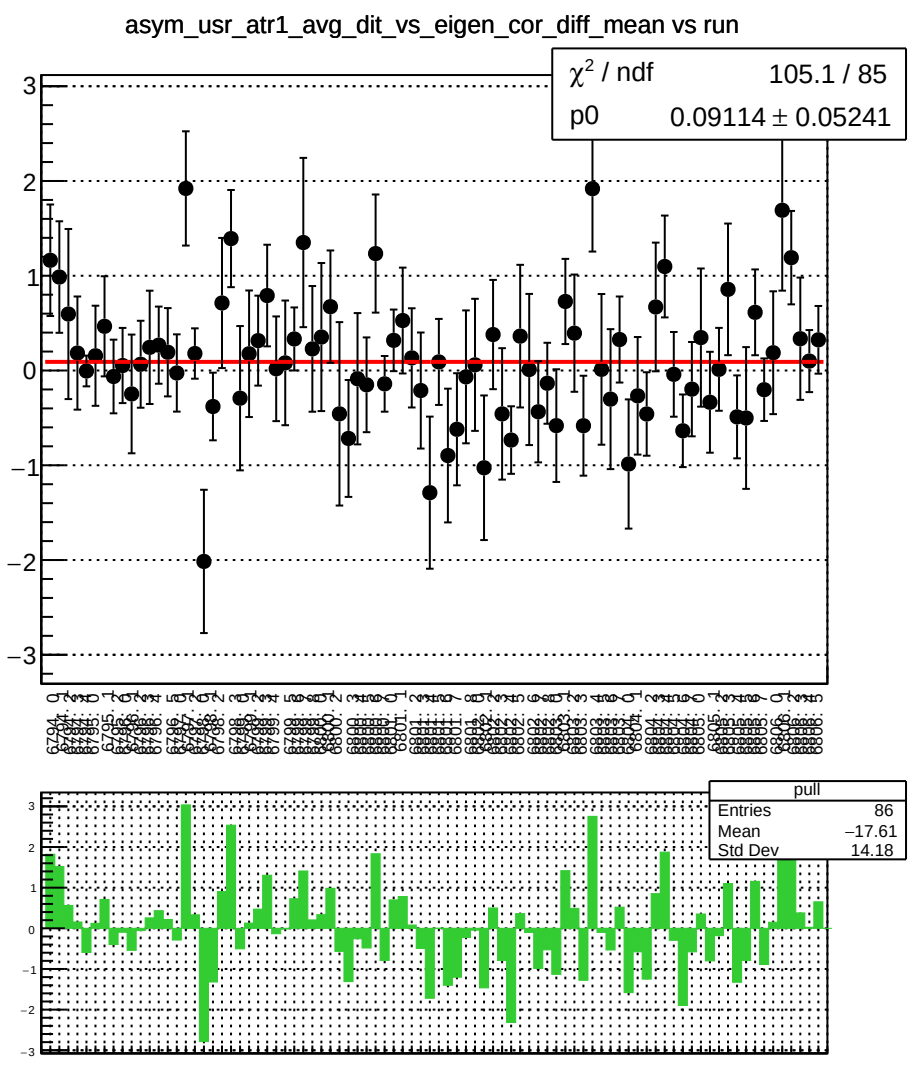

pull1D
Entries 86
Mean −0.02154
Std Dev 0.9721

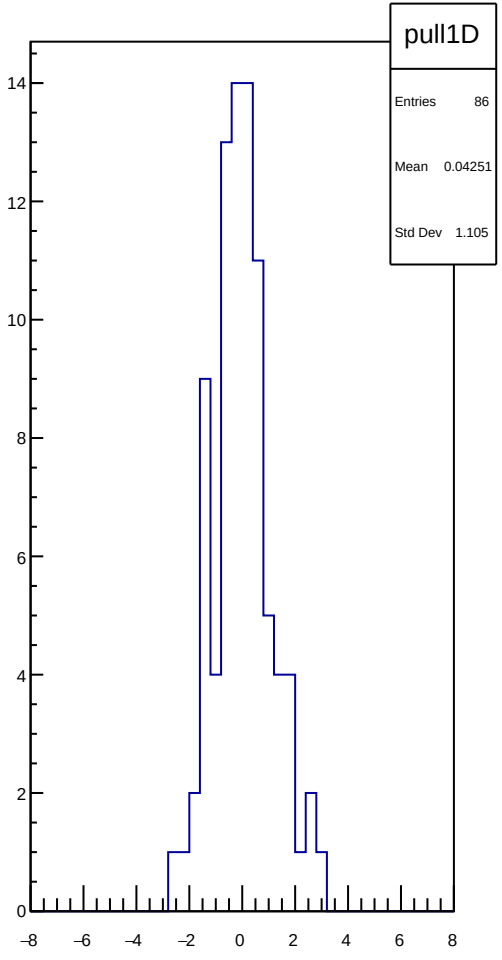

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 85
p0 1.34e−11 ± 1.801e−14
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

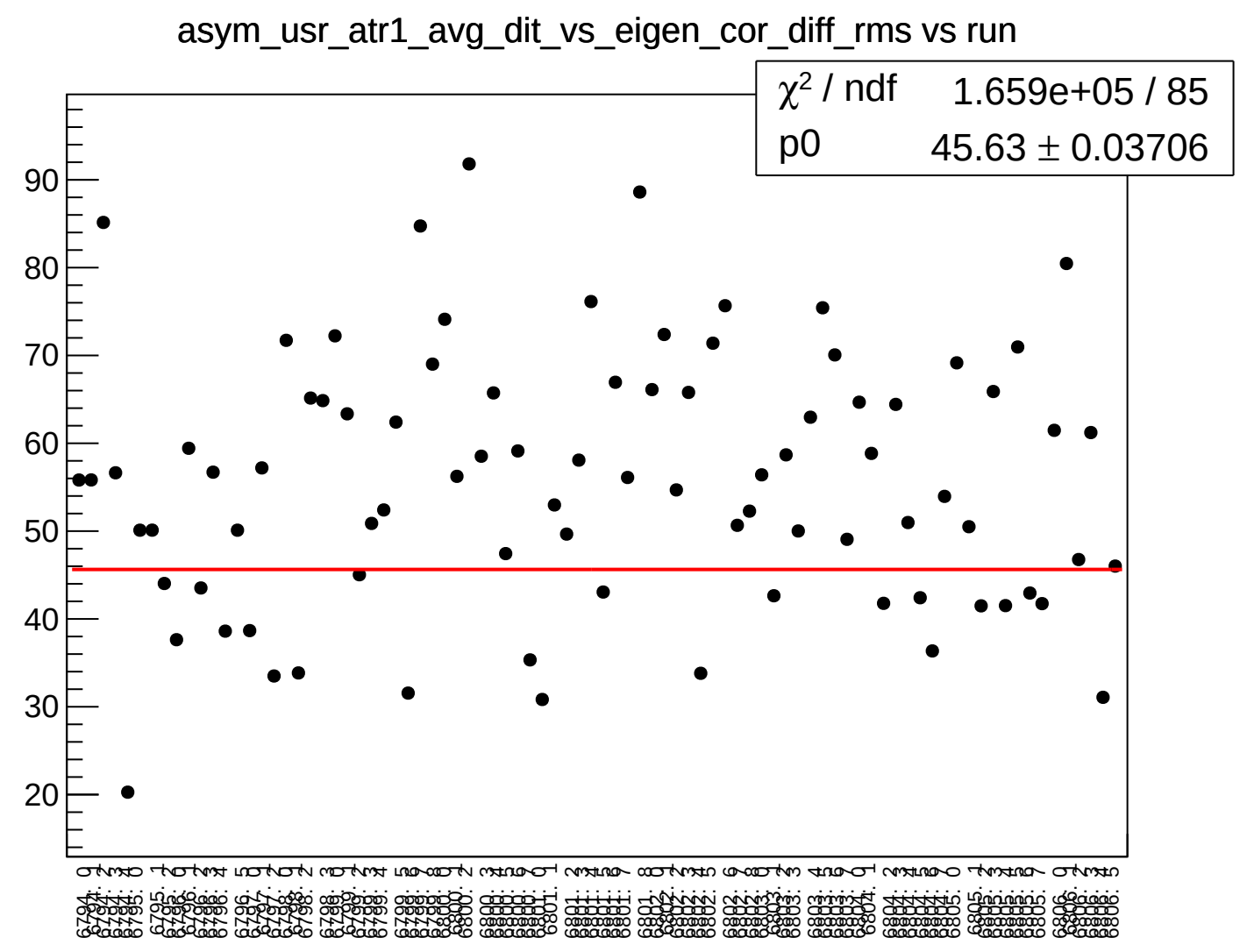

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.09114 ± 0.05241
pull
Entries 86
Mean −17.61
Std Dev 14.18

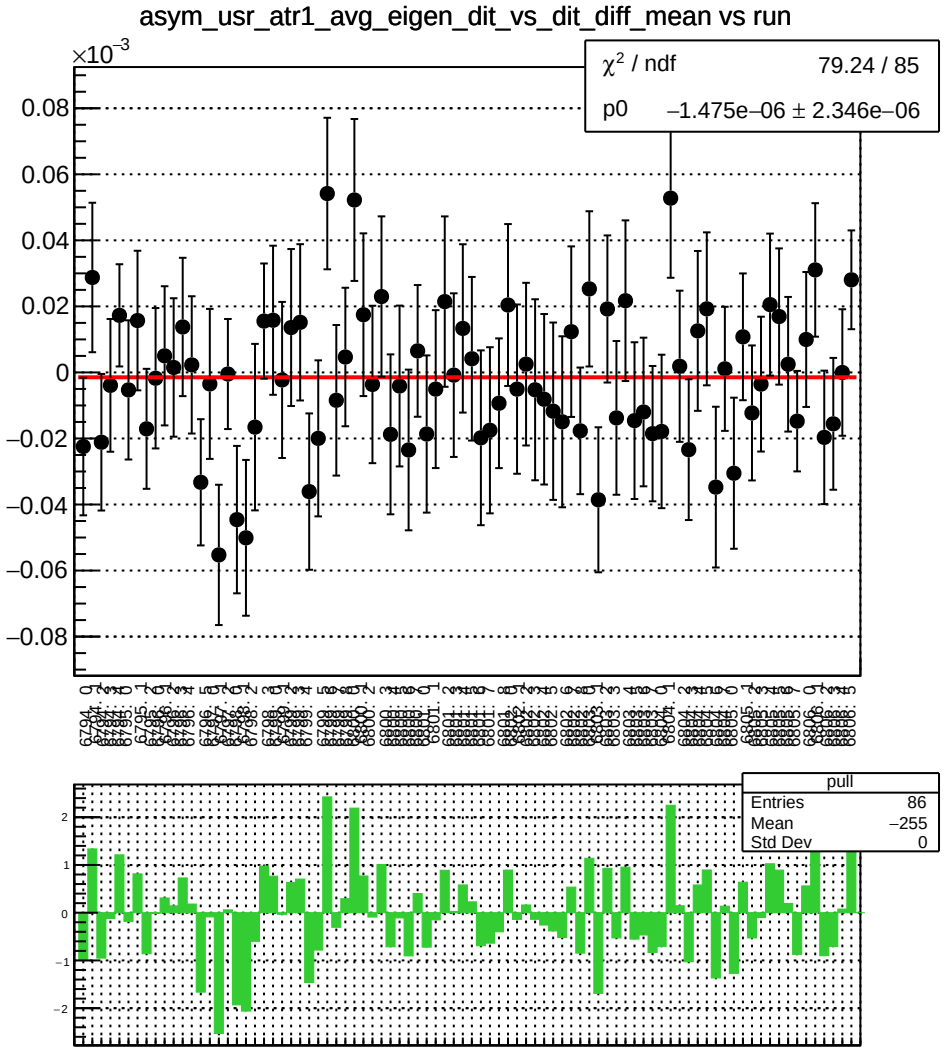

pull1D
Entries 86
Mean 0.04251
Std Dev 1.105

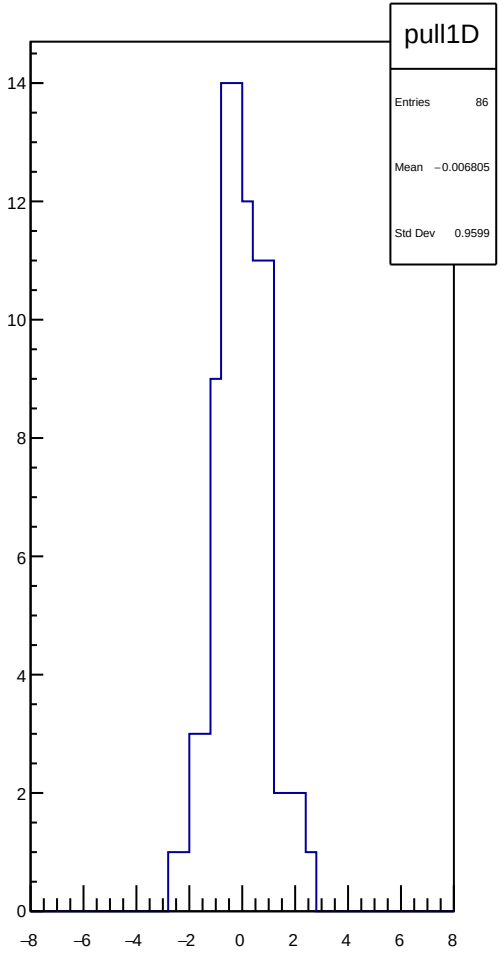

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 85
p0 45.63 ± 0.03706
90
80
70
60
50
40
30
20

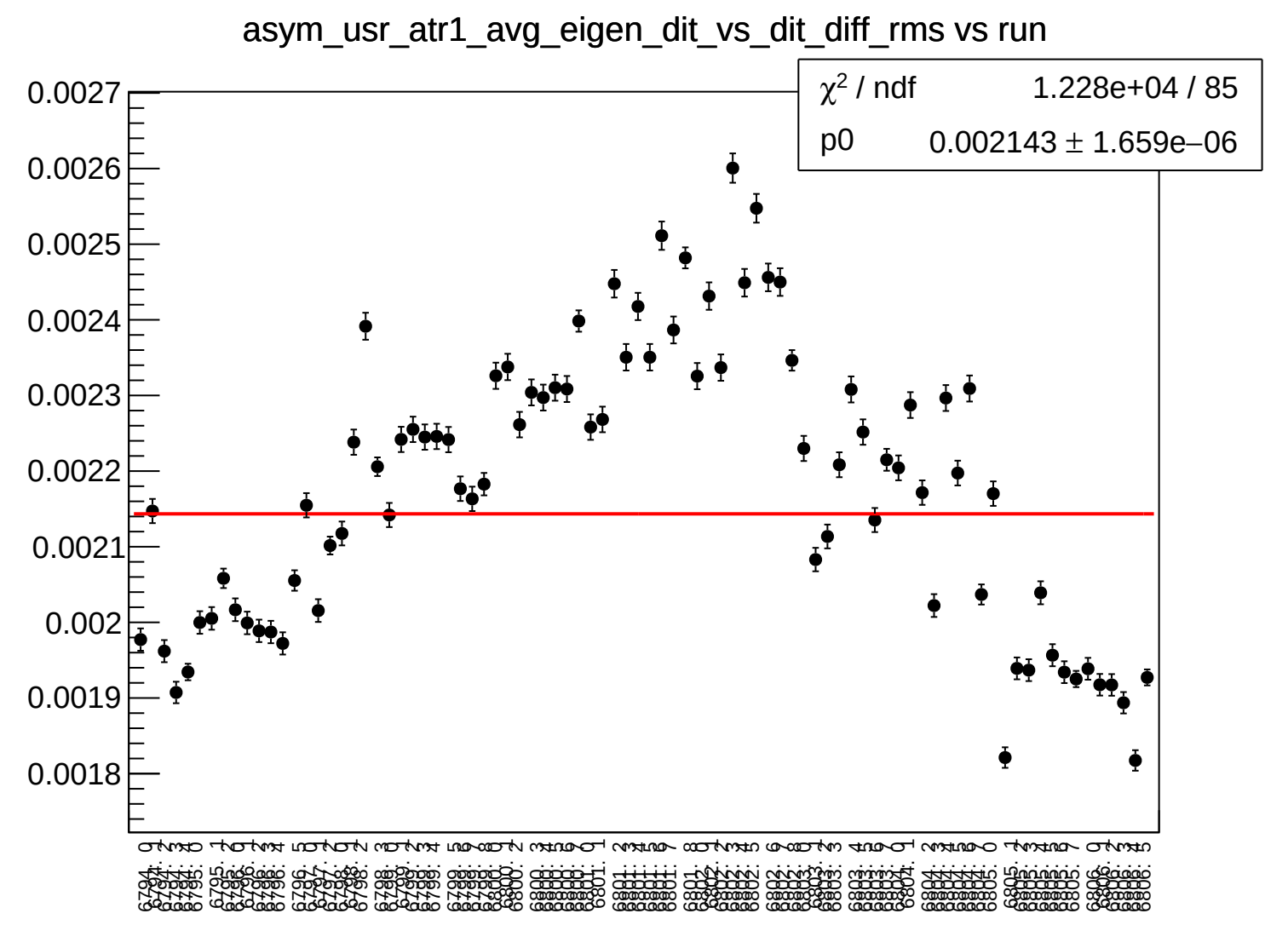

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.09114 ± 0.05241
pull
Entries 86
Mean −17.61
Std Dev 14.18

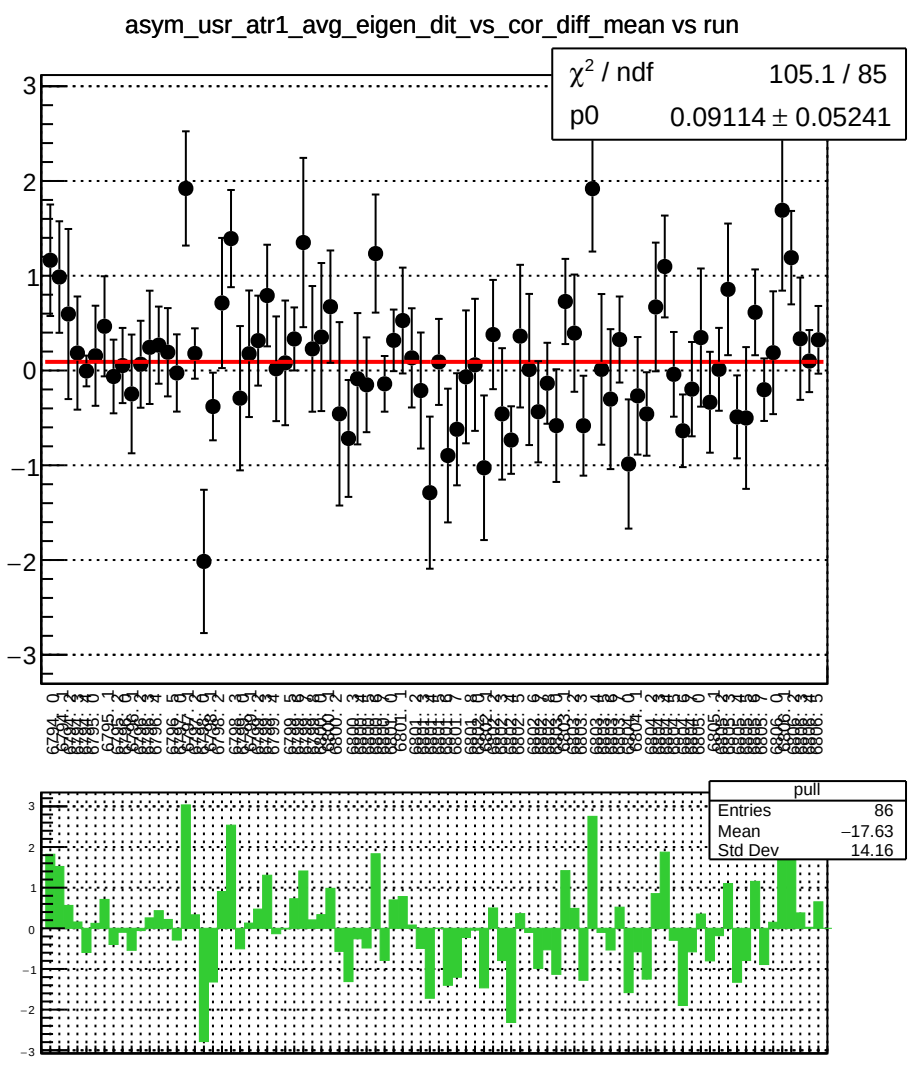

pull1D
Entries 86
Mean 0.04251
Std Dev 1.105

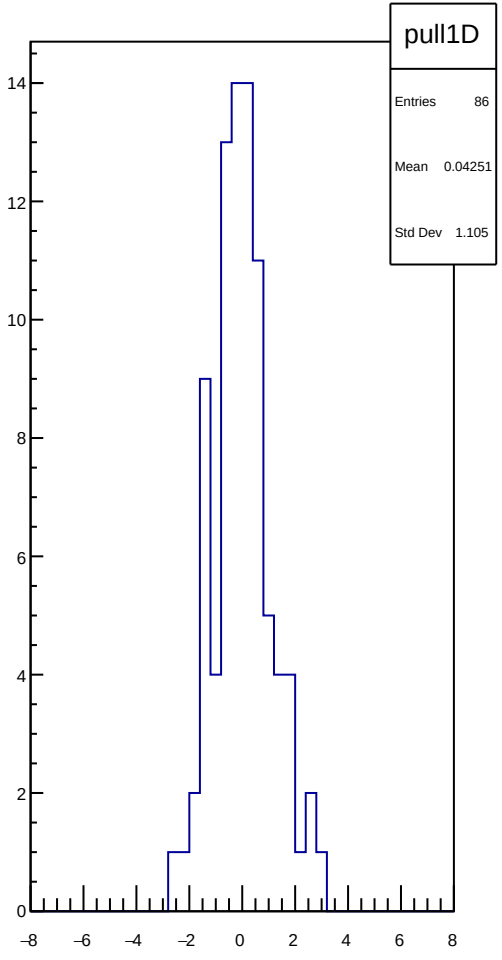

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 85
p0 45.63 ± 0.03706
90
80
70
60
50
40
30
20

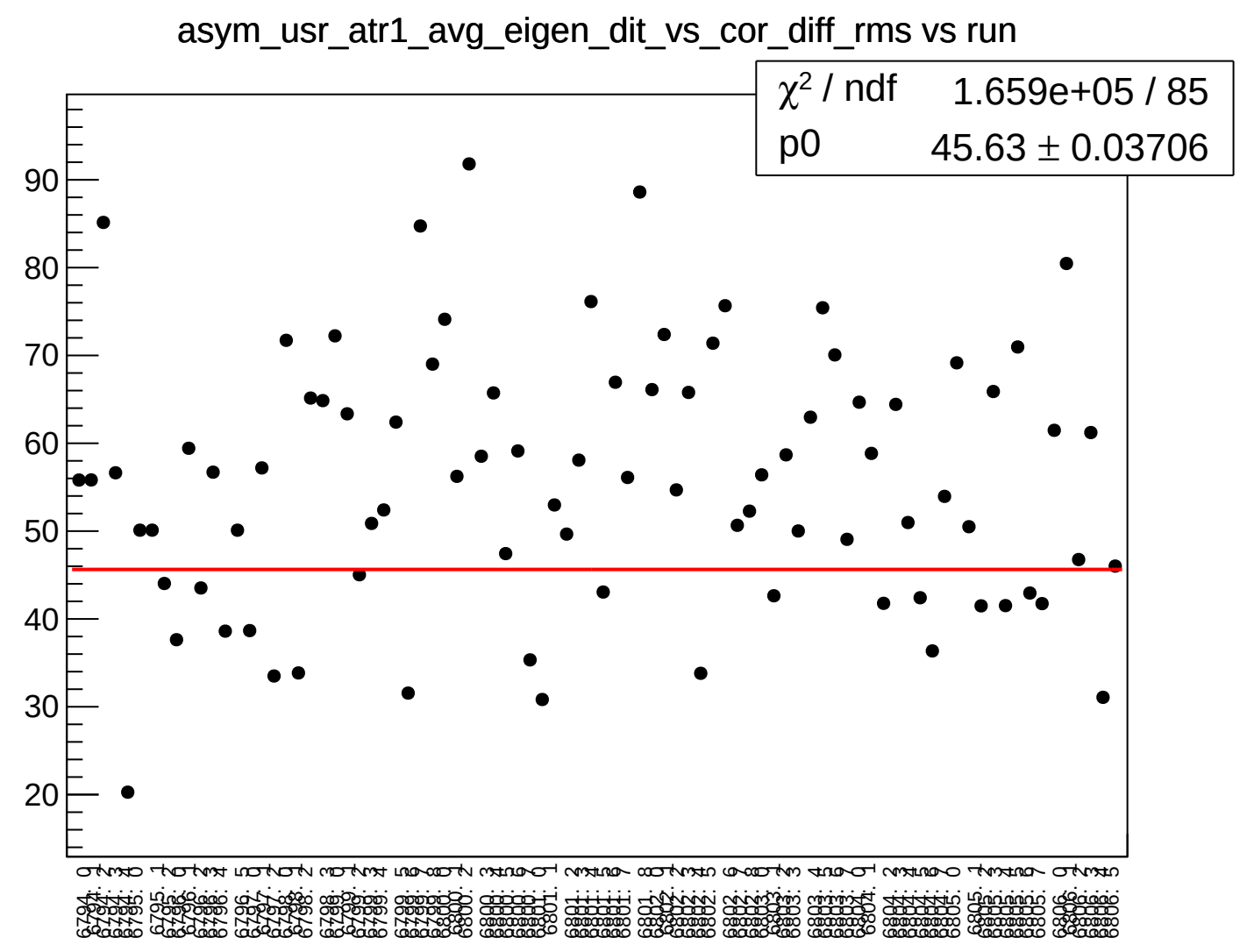

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.24 / 85
p0 −1.475e−06 ± 2.346e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −255
Std Dev 0
2
1
0
−1
−2

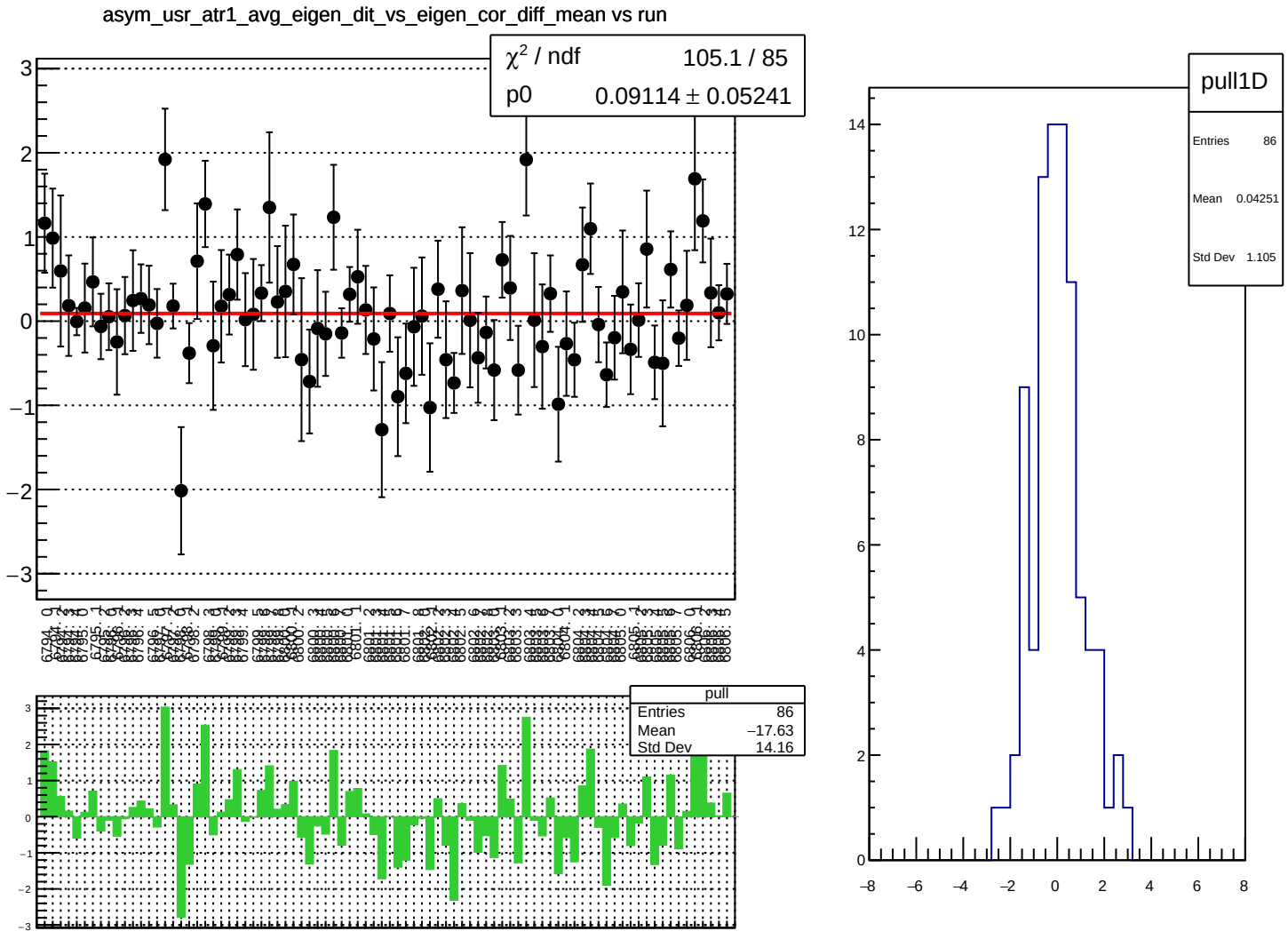

pull1D
Entries 86
Mean −0.006805
Std Dev 0.9599
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

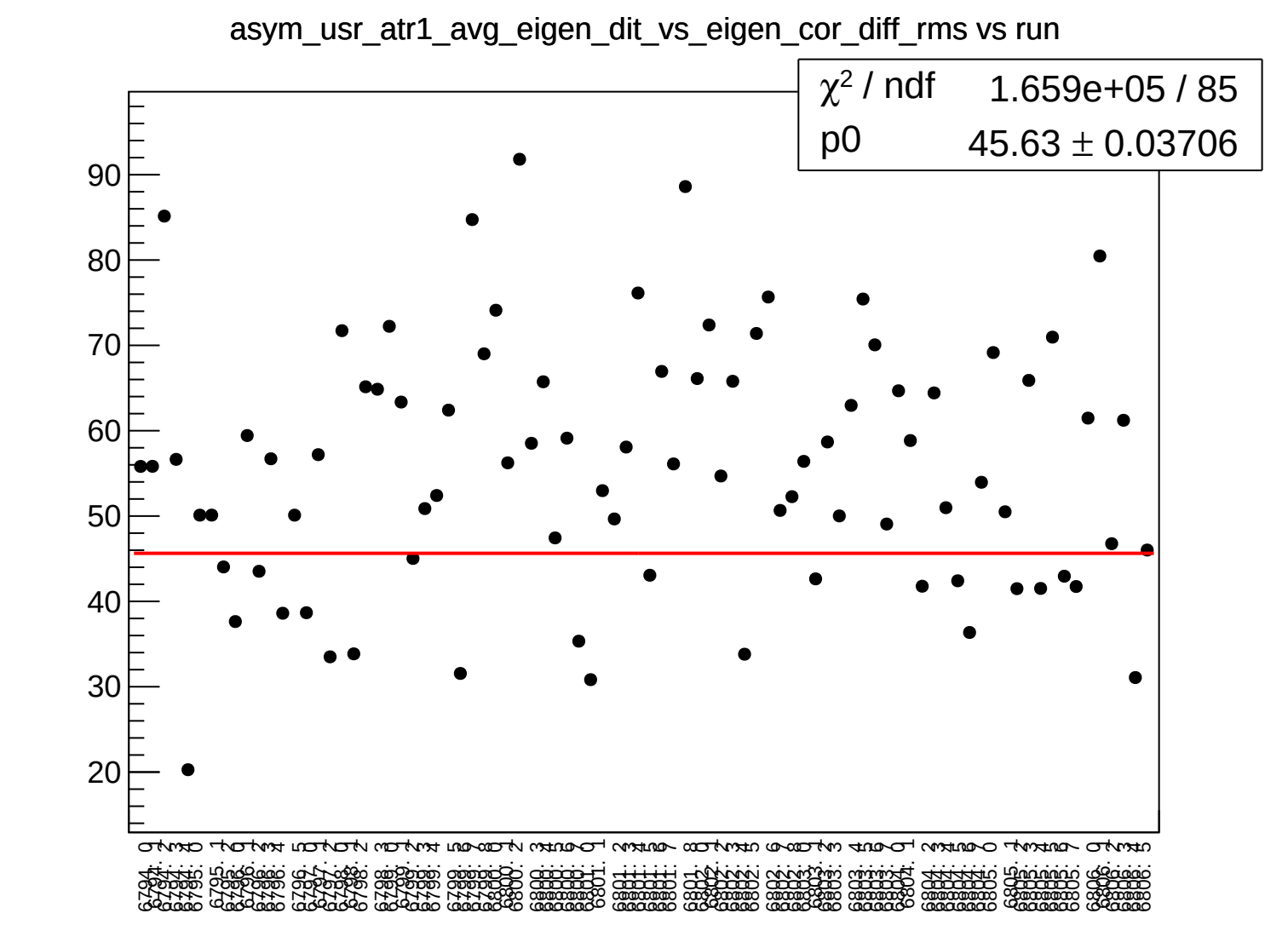

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.228e+04 / 85
p0 0.002143 ± 1.659e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

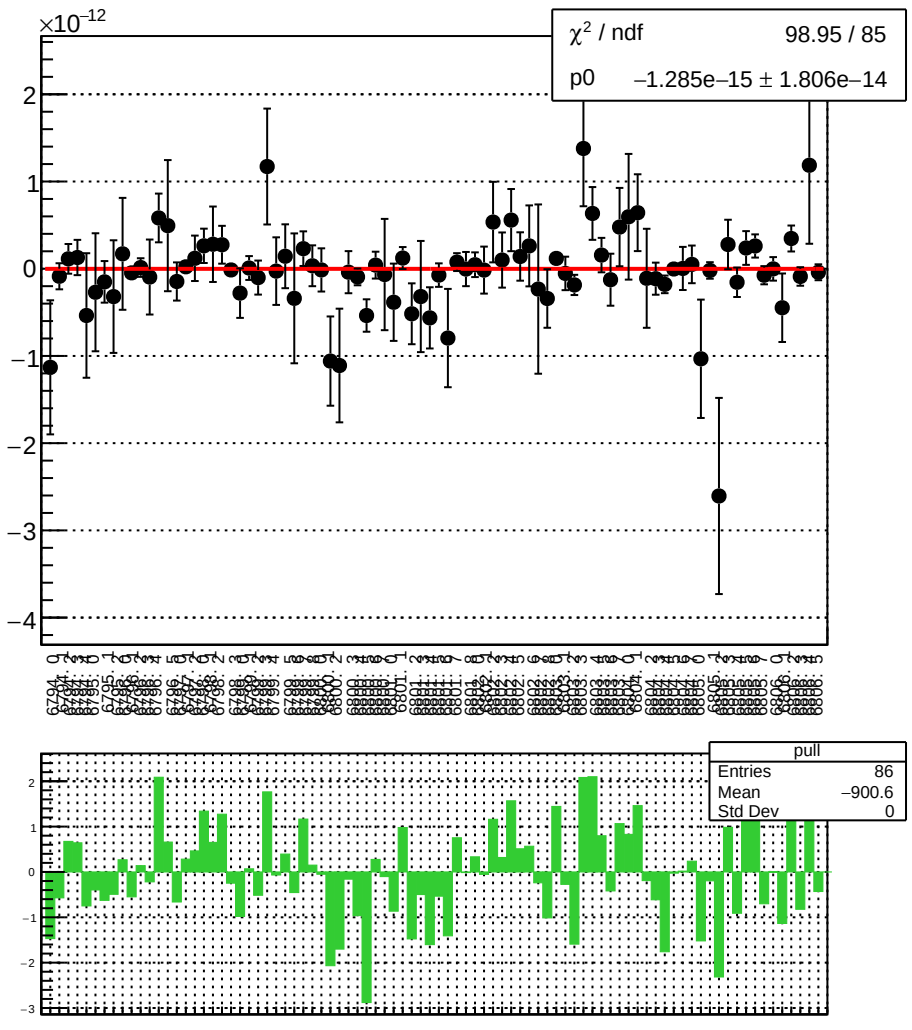

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.09114 ± 0.05241
pull
Entries 86
Mean −17.63
Std Dev 14.16

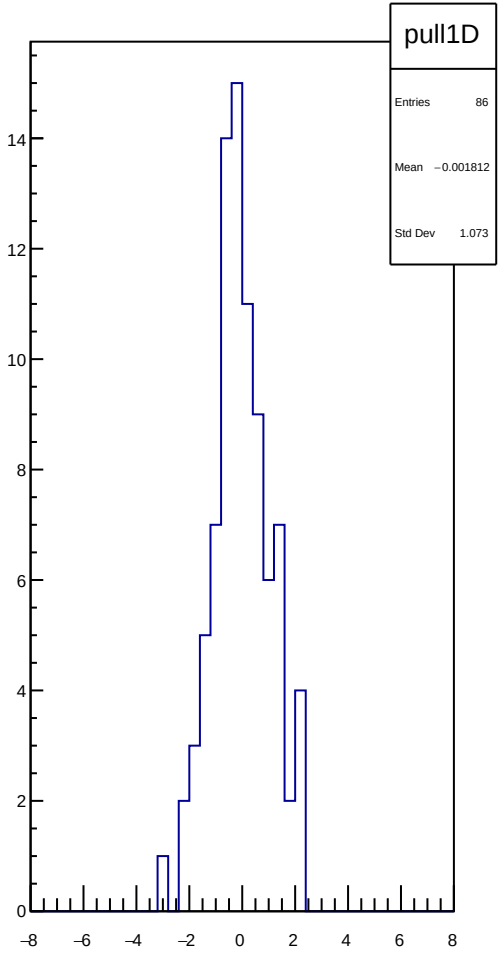

pull1D
Entries 86
Mean 0.04251
Std Dev 1.105

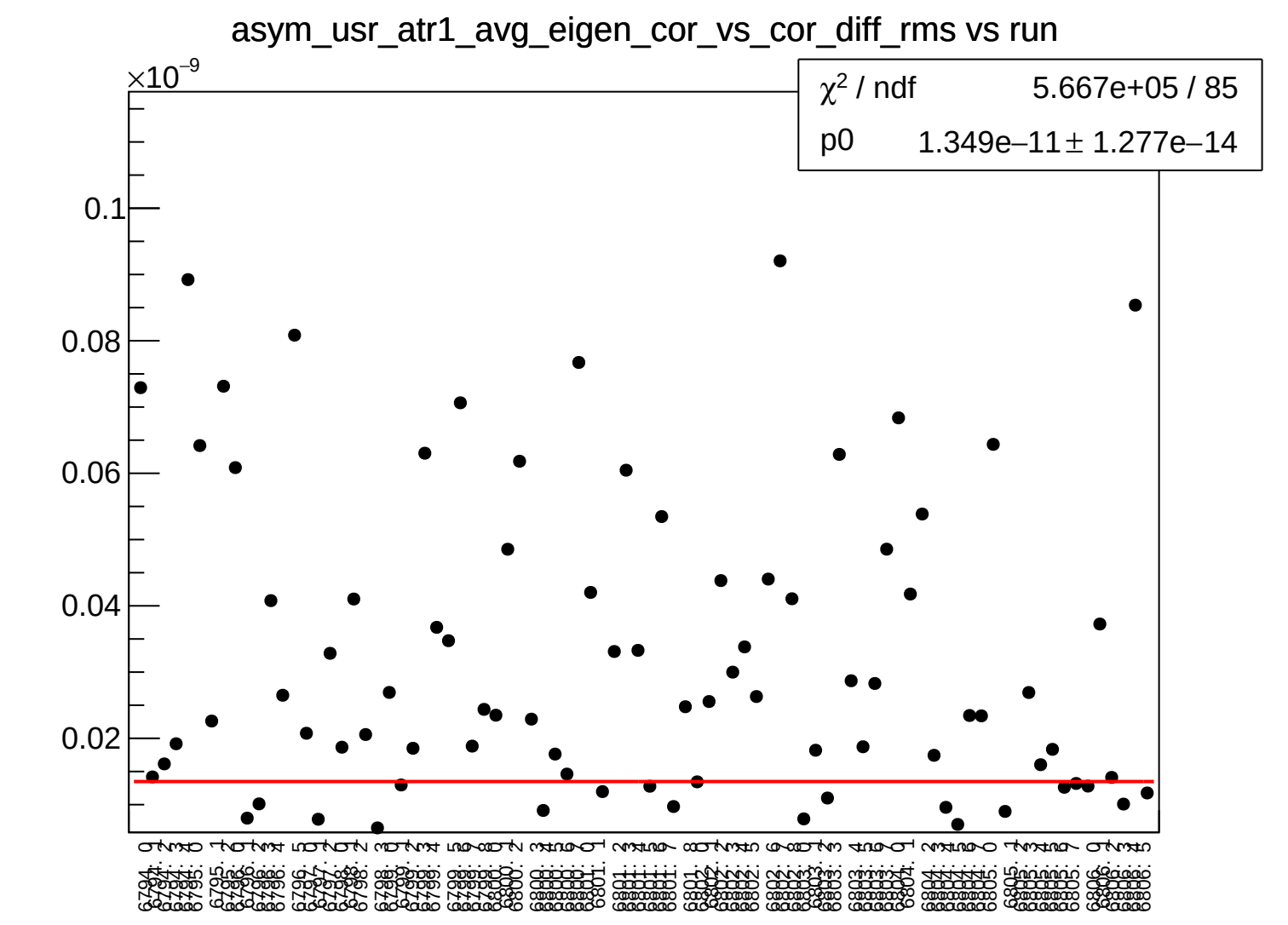

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 85
p0 45.63 ± 0.03706
90
80
70
60
50
40
30
20

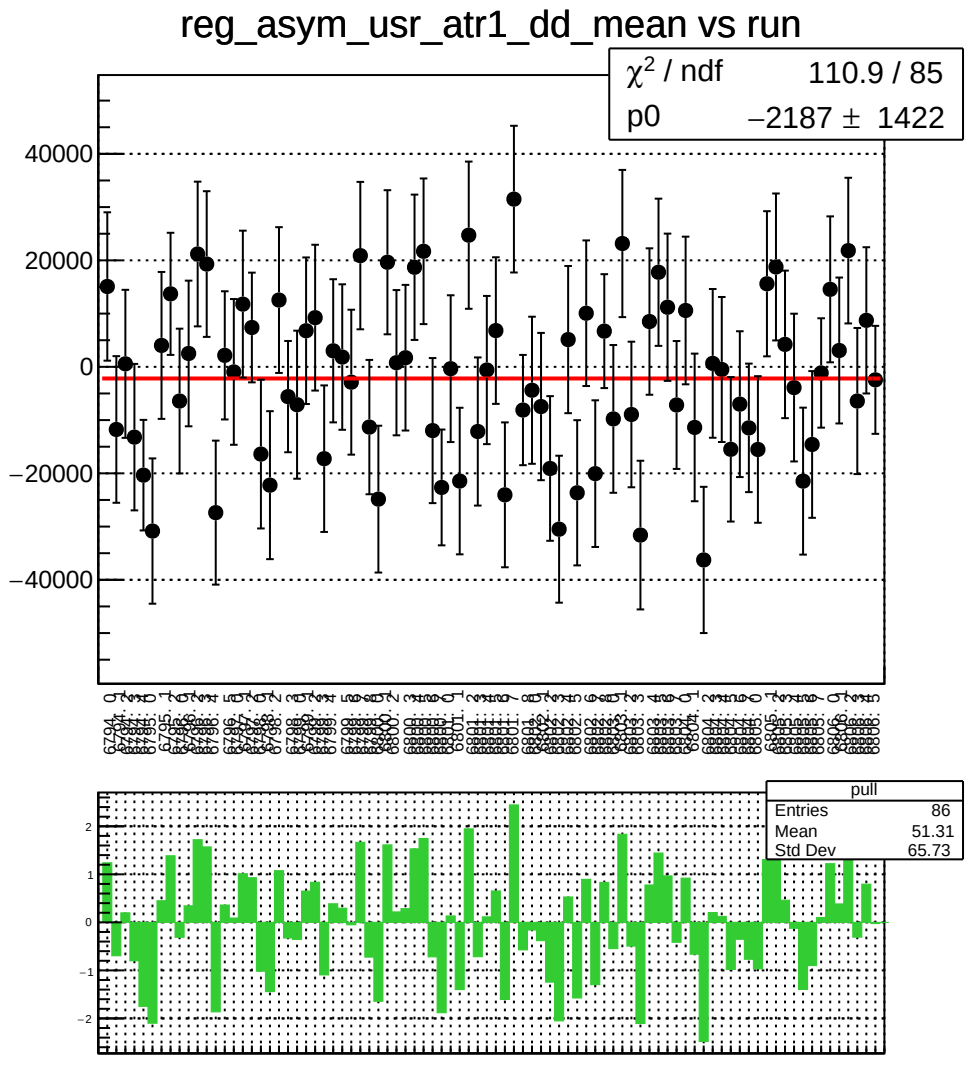

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 85
p0 0.09114 ± 0.05241
pull
Entries 86
Mean −17.63
Std Dev 14.16
pull1D
Entries 86
Mean 0.04251
Std Dev 1.105

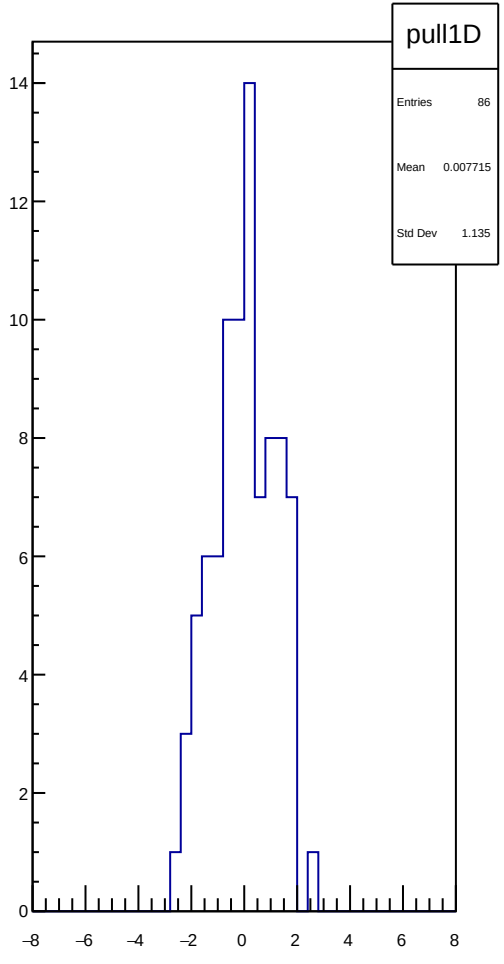

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.659e+05 / 85
p0 45.63 ± 0.03706
90
80
70
60
50
40
30
20

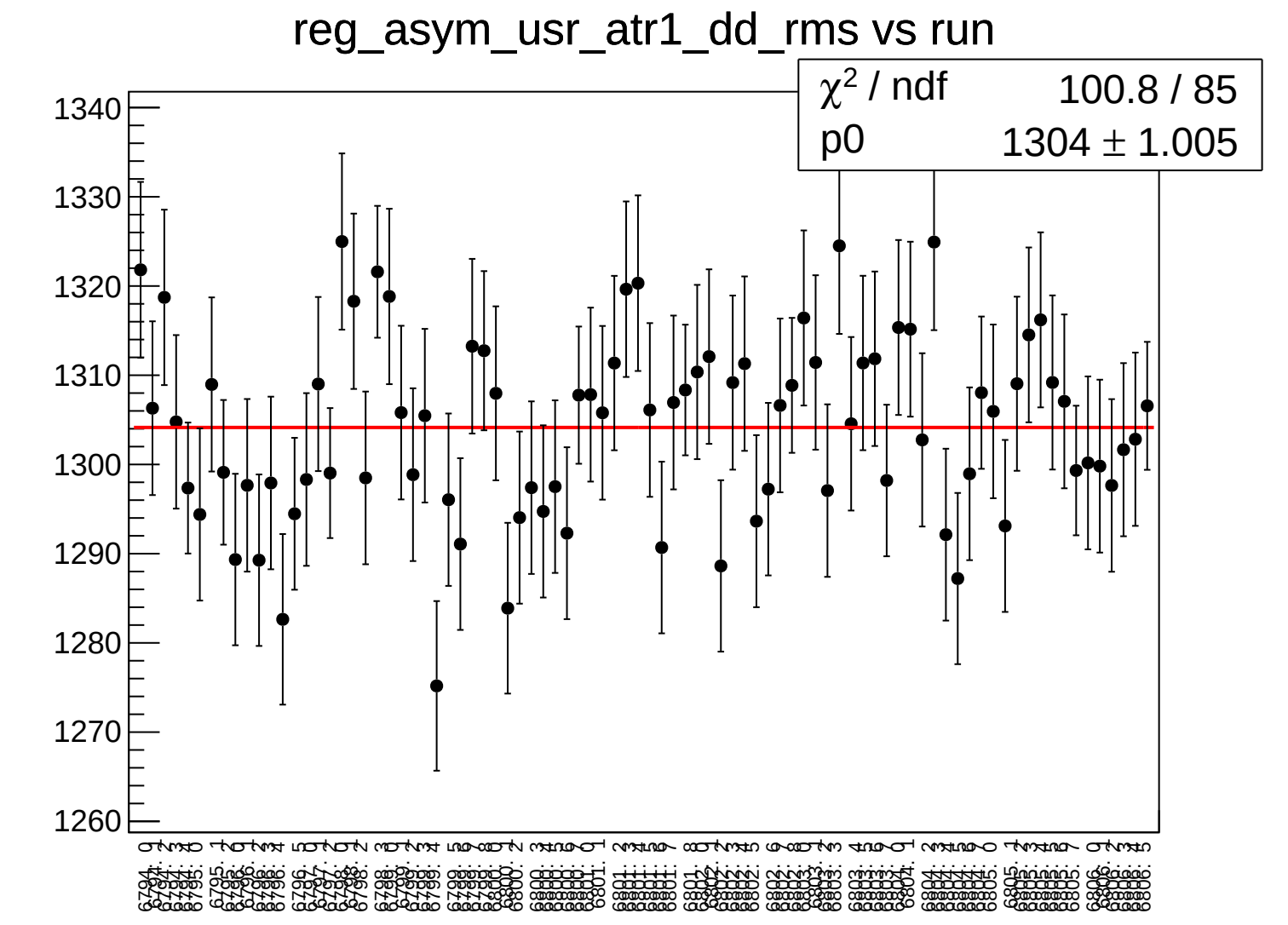

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.95 / 85
p0 −1.285e−15 ± 1.806e−14
pull
Entries 86
Mean −900.6
Std Dev 0

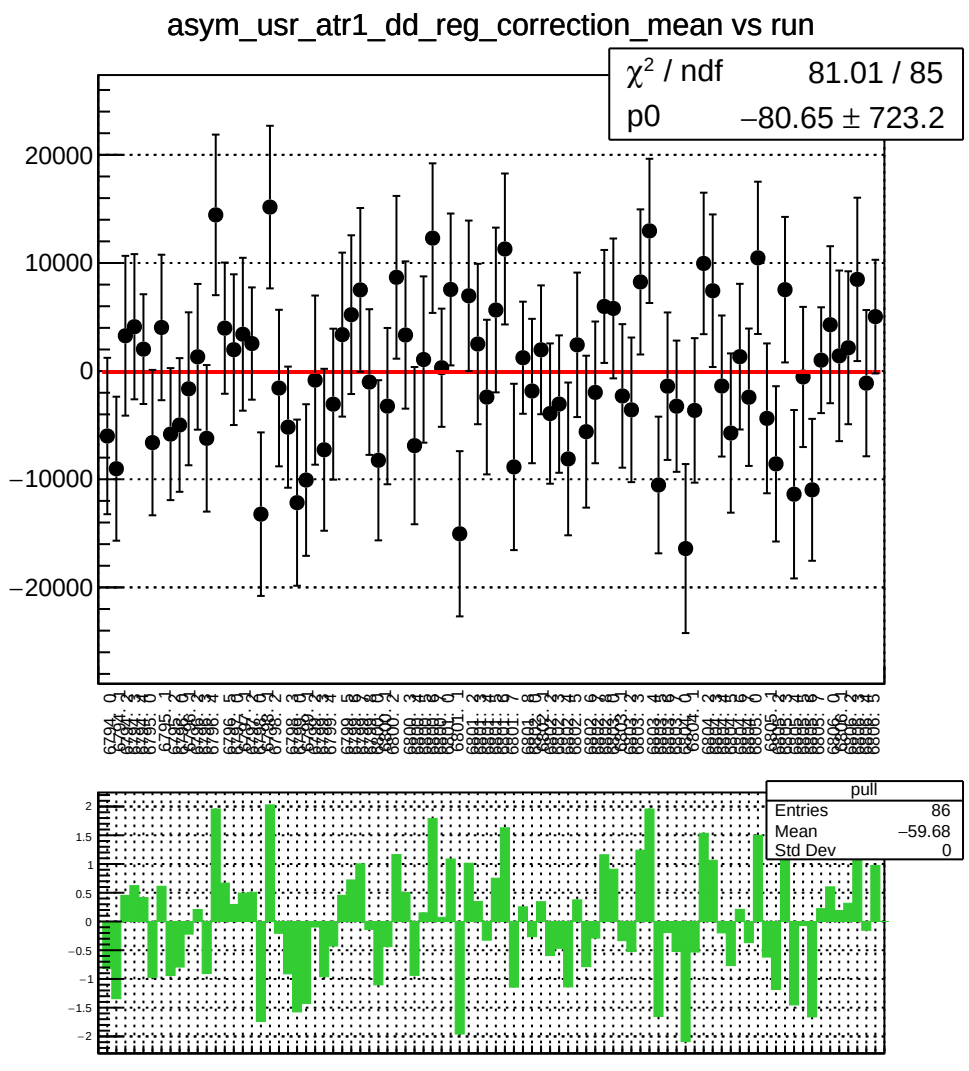

pull1D
Entries 86
Mean −0.001812
Std Dev 1.073

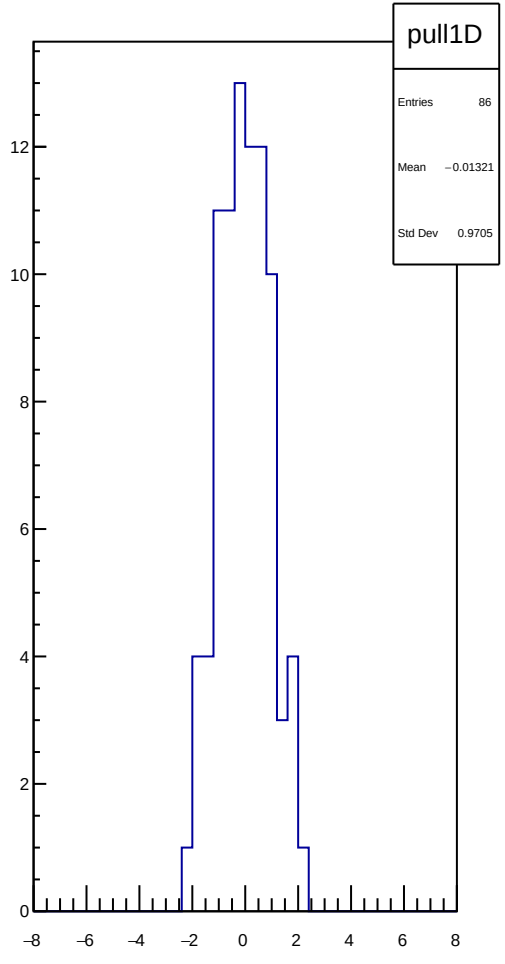

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.667e+05 / 85
p0 1.349e−11 ± 1.277e−14
0.1
0.08
0.06
0.04
0.02

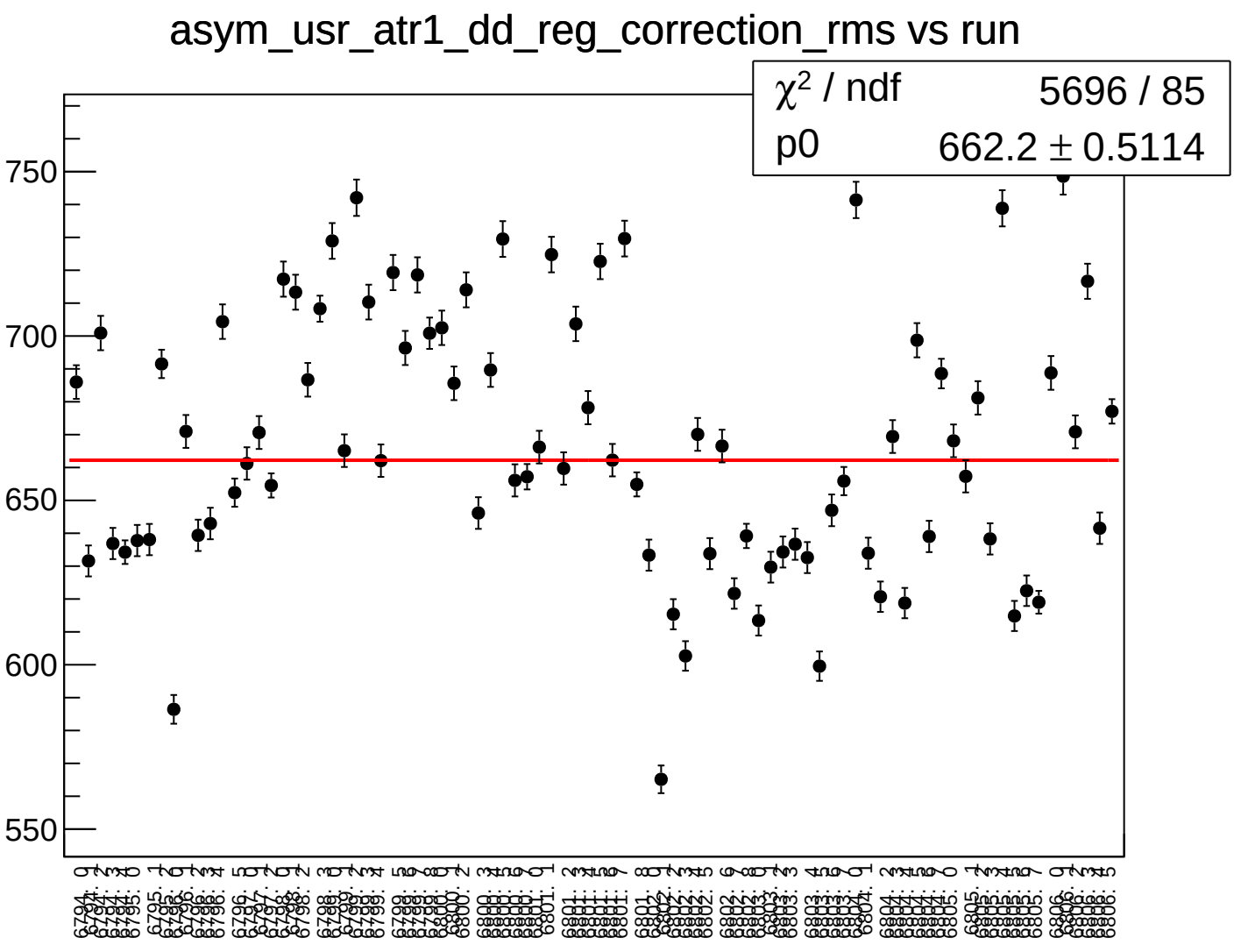

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.9 / 85
p0 −2187 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 51.31
Std Dev 65.73
2
1
0
−1
−2

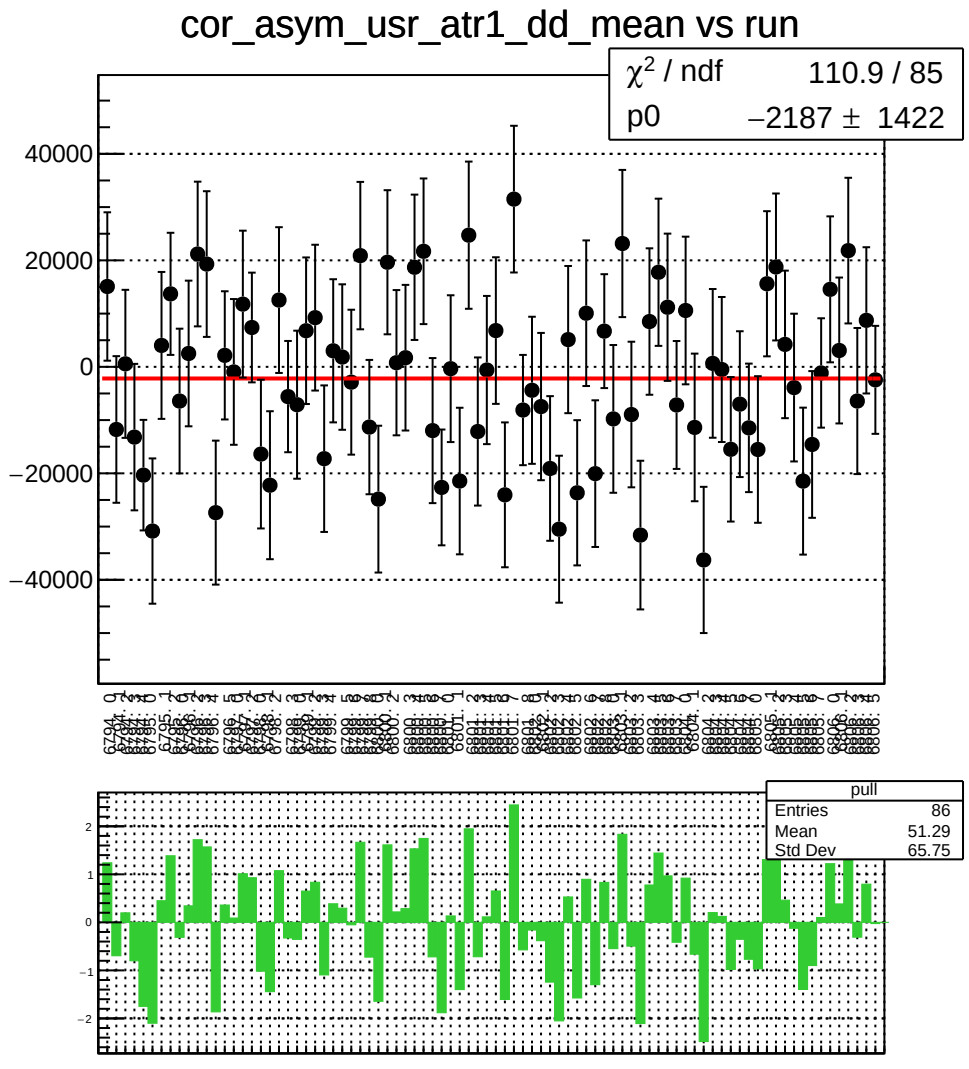

pull1D
Entries 86
Mean 0.007715
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

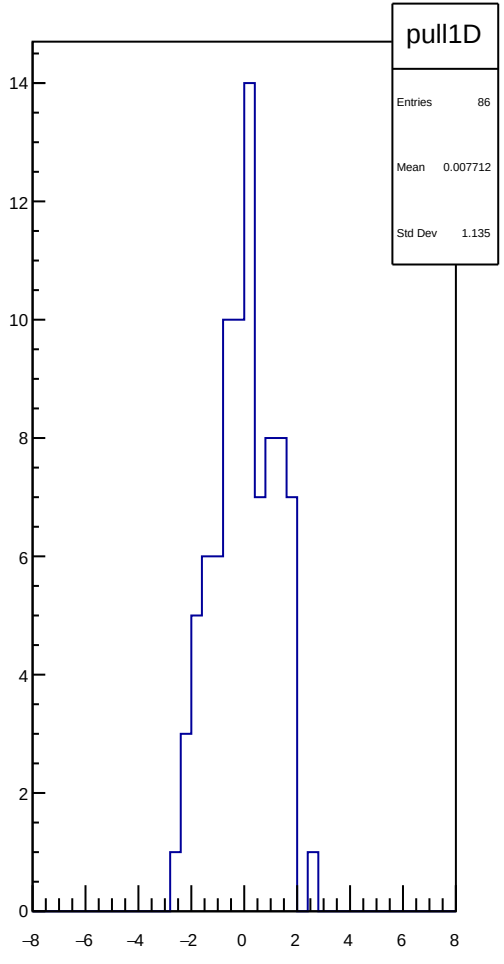

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 100.8 / 85
p0 1304 ± 1.005
1340
1330
1320
1310
1300
1290
1280
1270
1260

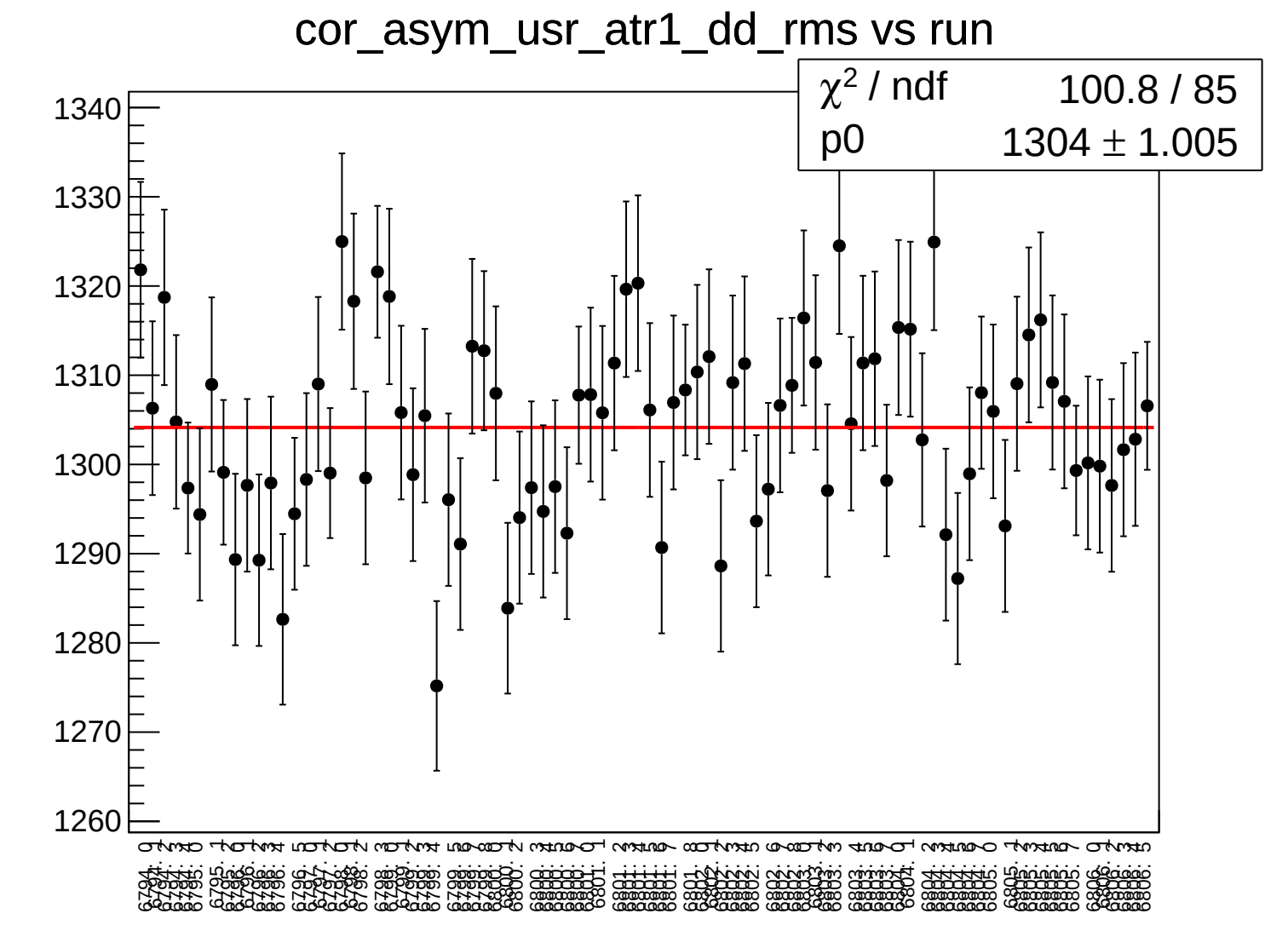

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 81.01 / 85
p0 −80.65 ± 723.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −59.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

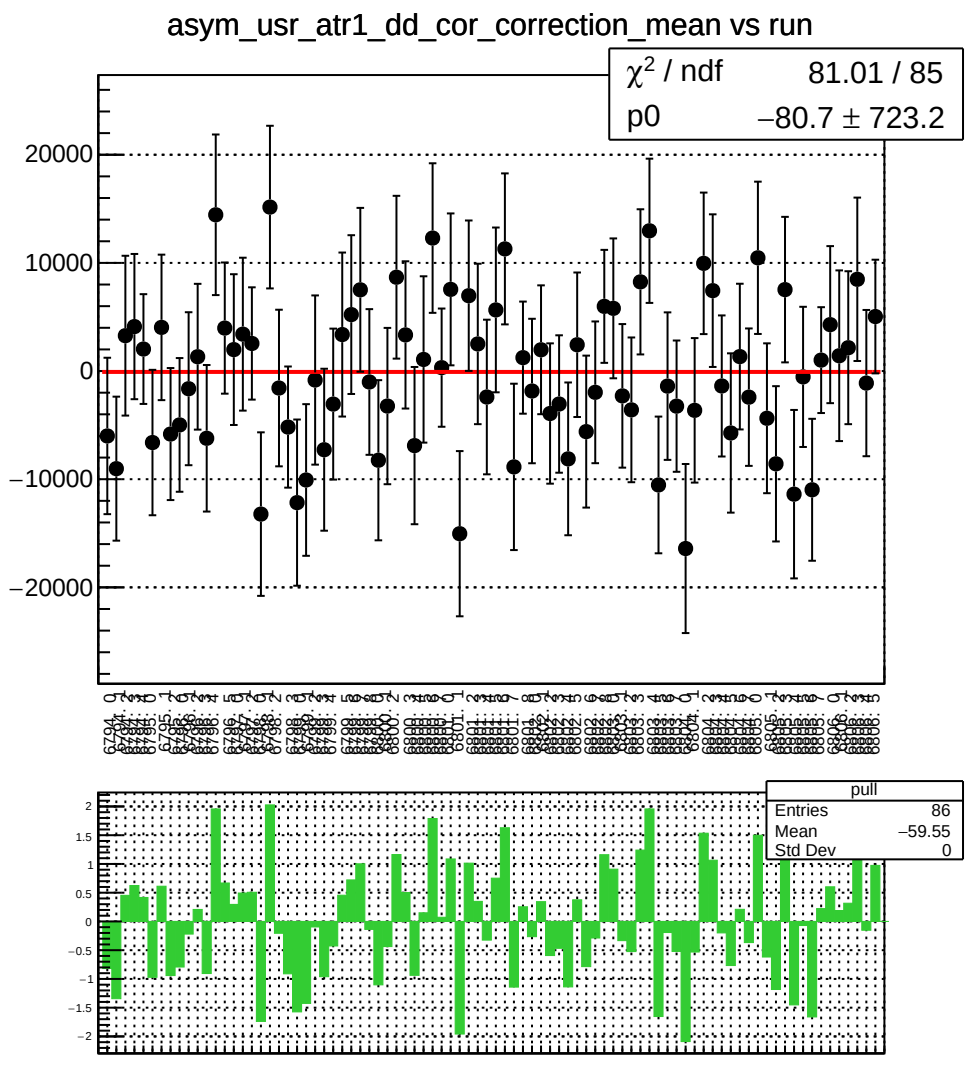

pull1D
Entries 86
Mean −0.01321
Std Dev 0.9705
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

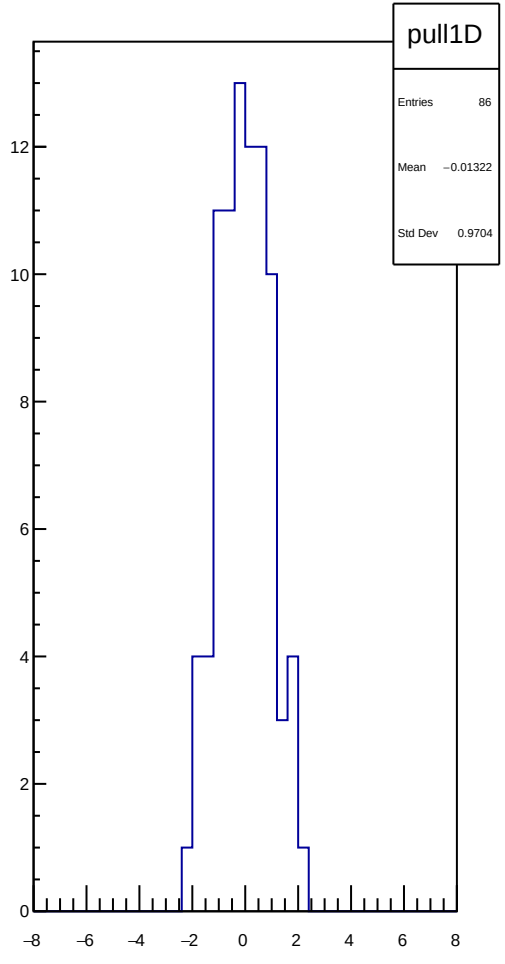

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 5696 / 85
p0 662.2 ± 0.5114
750
700
650
600
550

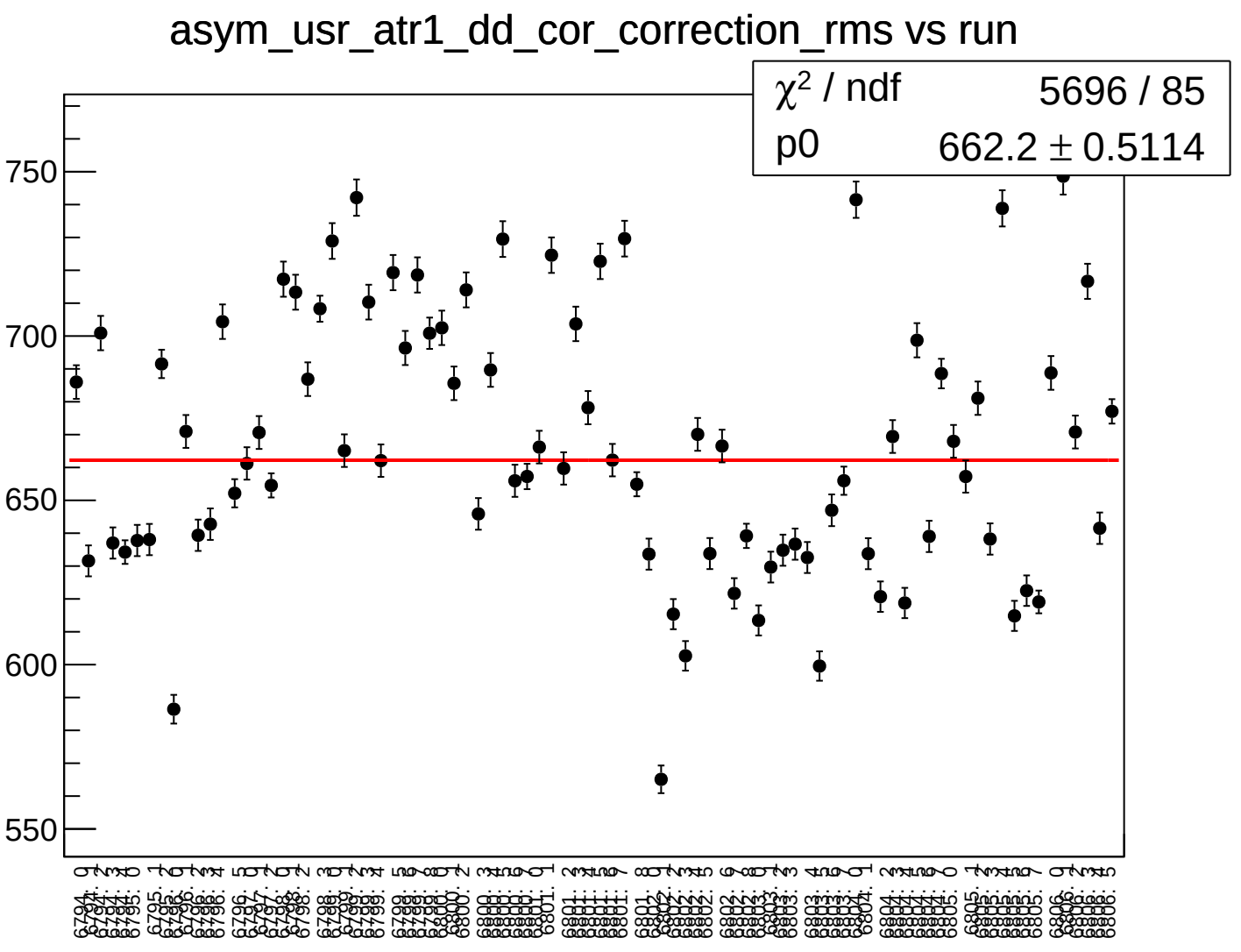

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.9 / 85
p0 −2187 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 51.29
Std Dev 65.75
2
1
0
−1
−2

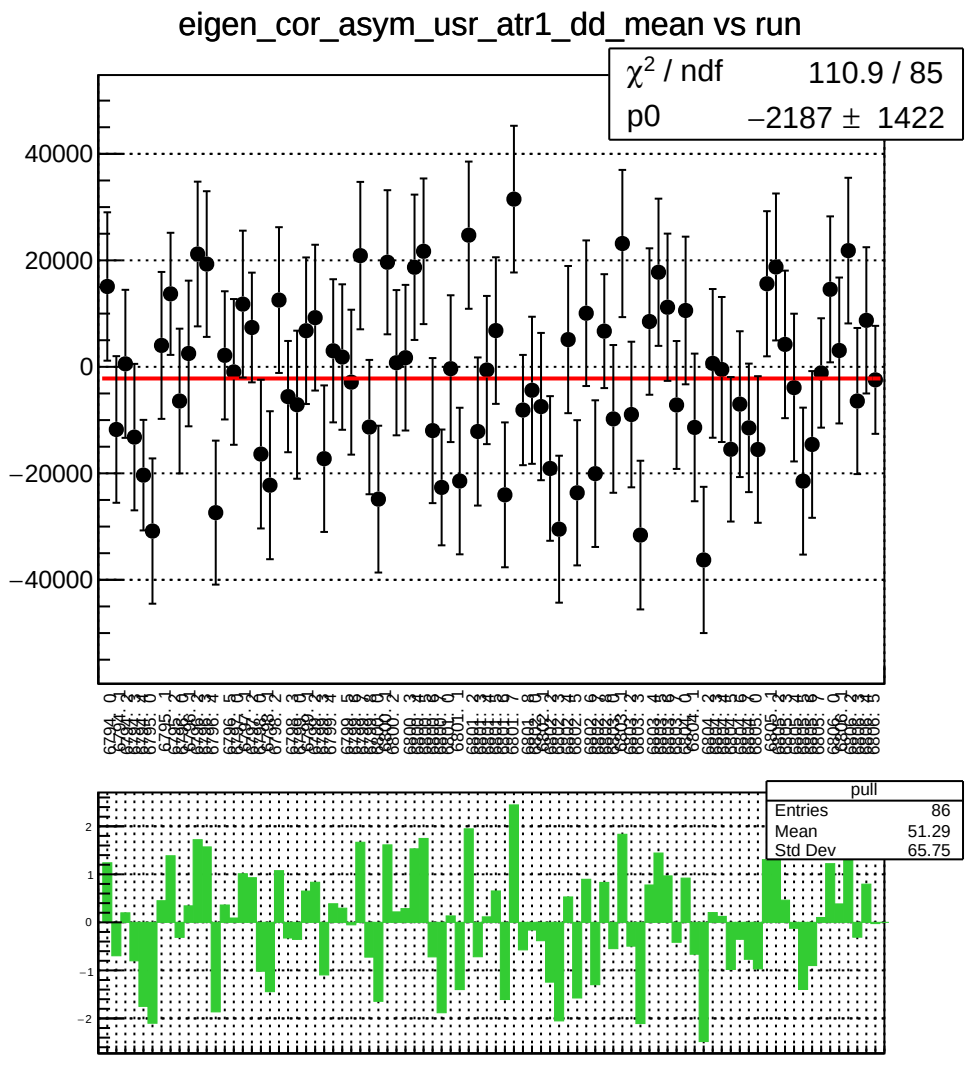

pull1D
Entries 86
Mean 0.007712
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

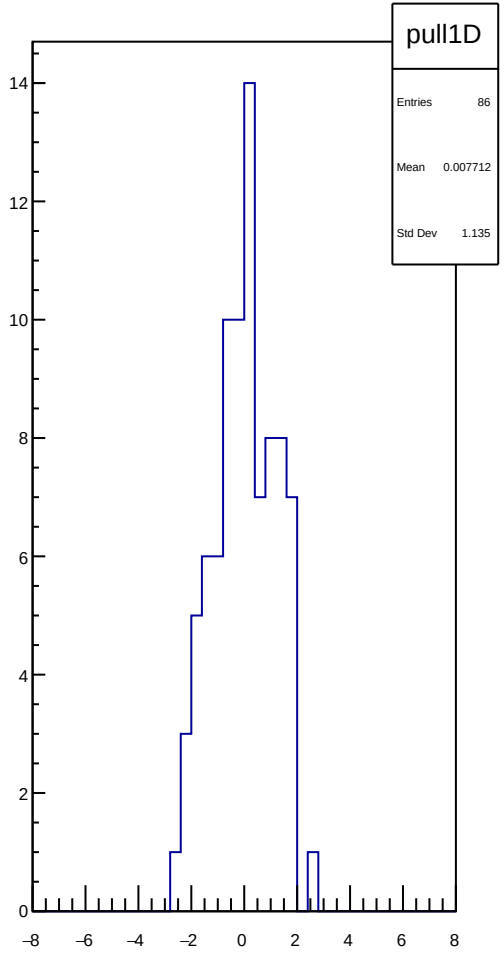

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 100.8 / 85
p0 1304 ± 1.005
1340
1330
1320
1310
1300
1290
1280
1270
1260

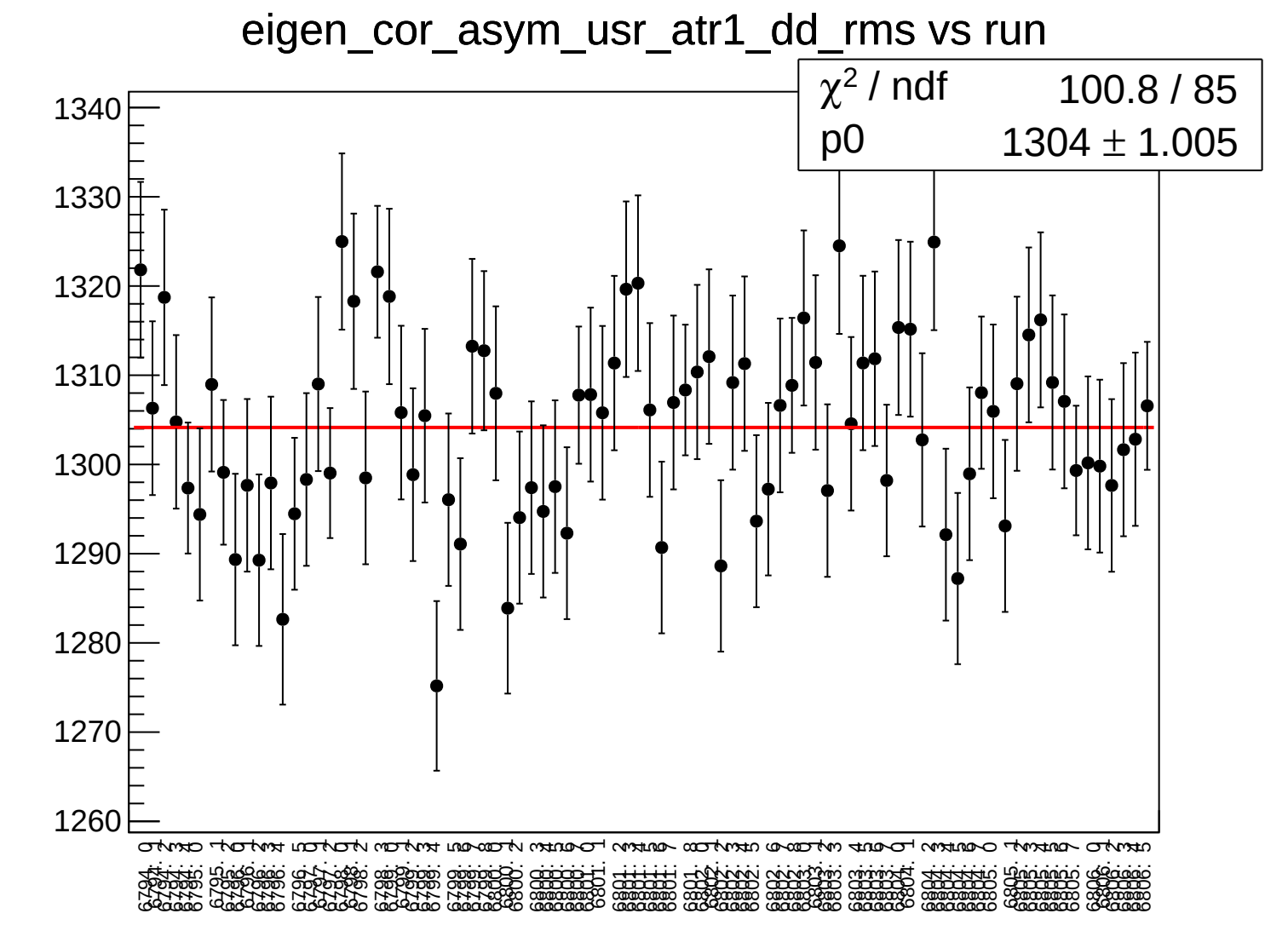

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 81.01 / 85
p0 −80.7 ± 723.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −59.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

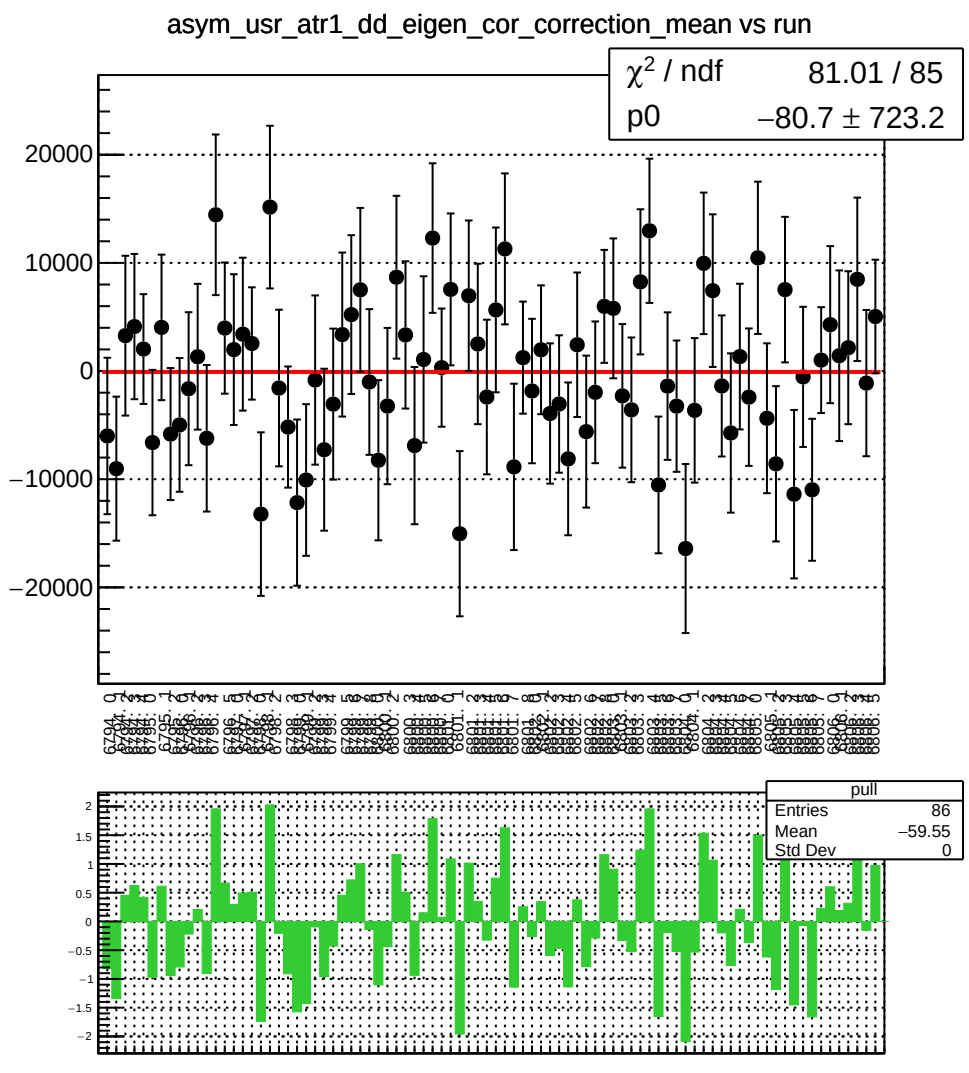

pull1D
Entries 86
Mean −0.01322
Std Dev 0.9704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

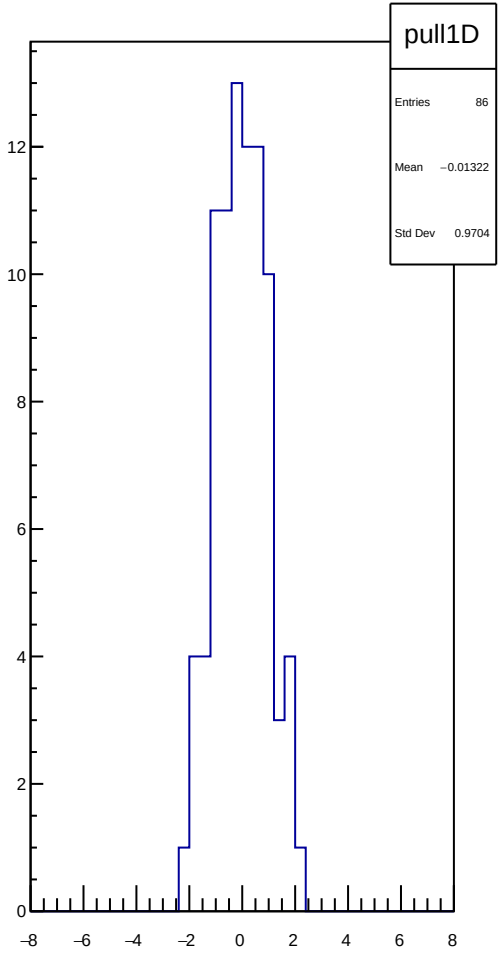

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 5696 / 85
p0 662.2 ± 0.5114
750
700
650
600
550

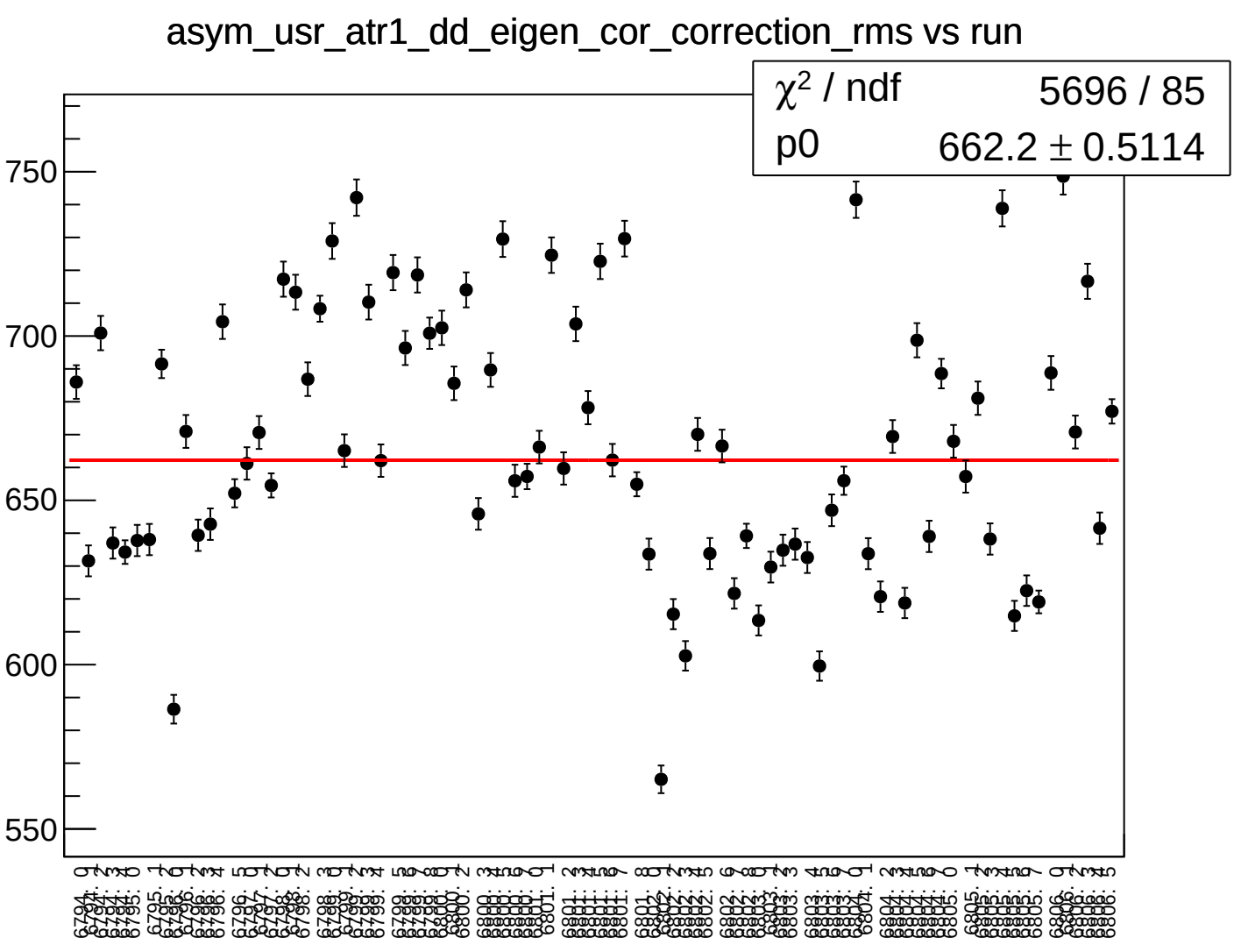

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 110.9 / 85
p0 −2187 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 51.29
Std Dev 65.75
2
1
0
−1
−2

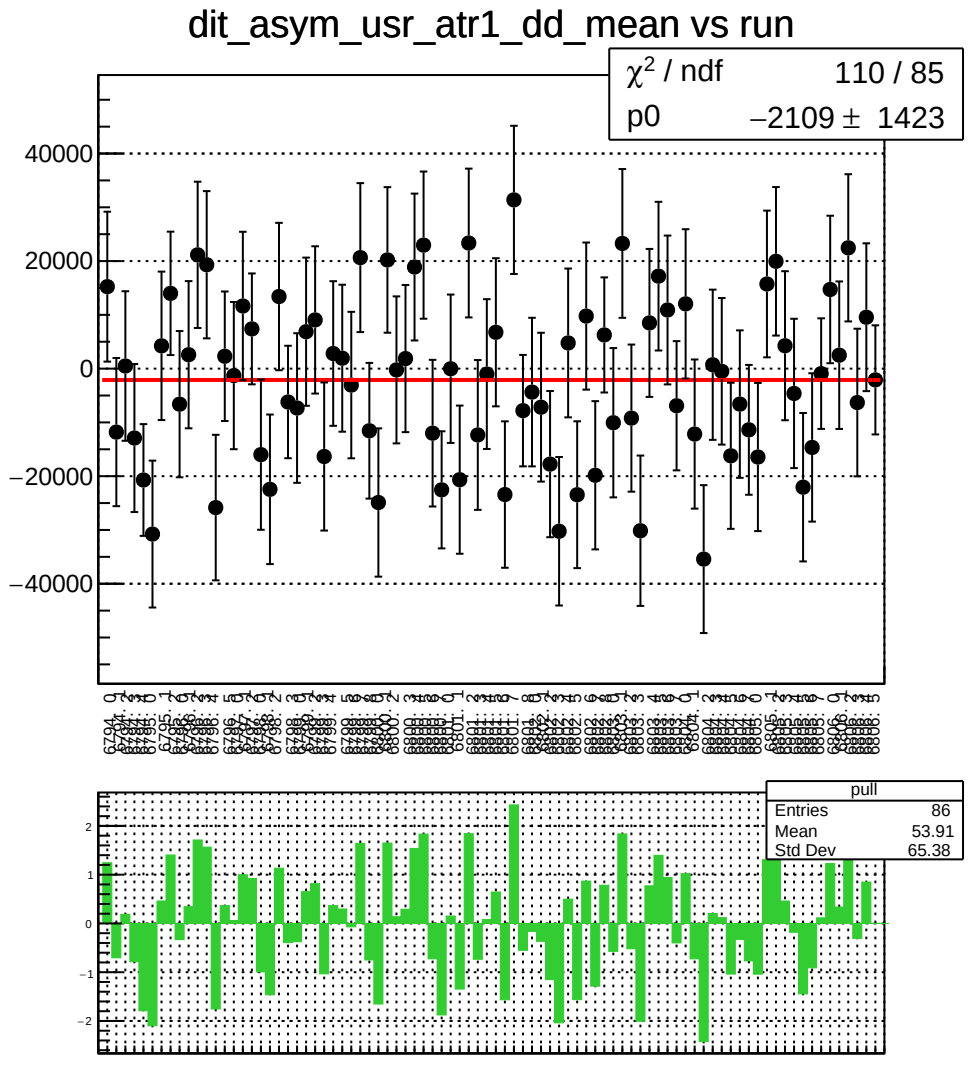

pull1D
Entries 86
Mean 0.007712
Std Dev 1.135
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

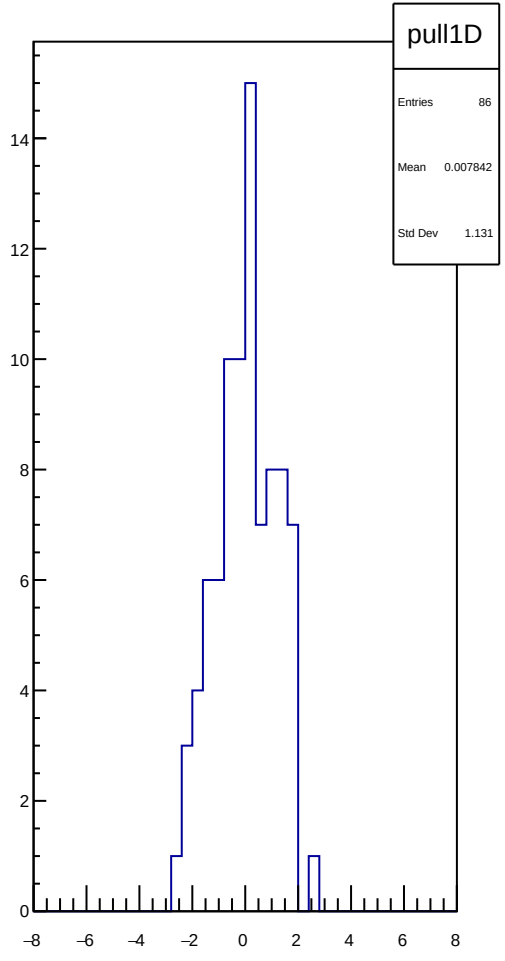

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 100.8 / 85
p0 1304 ± 1.005
1340
1330
1320
1310
1300
1290
1280
1270
1260

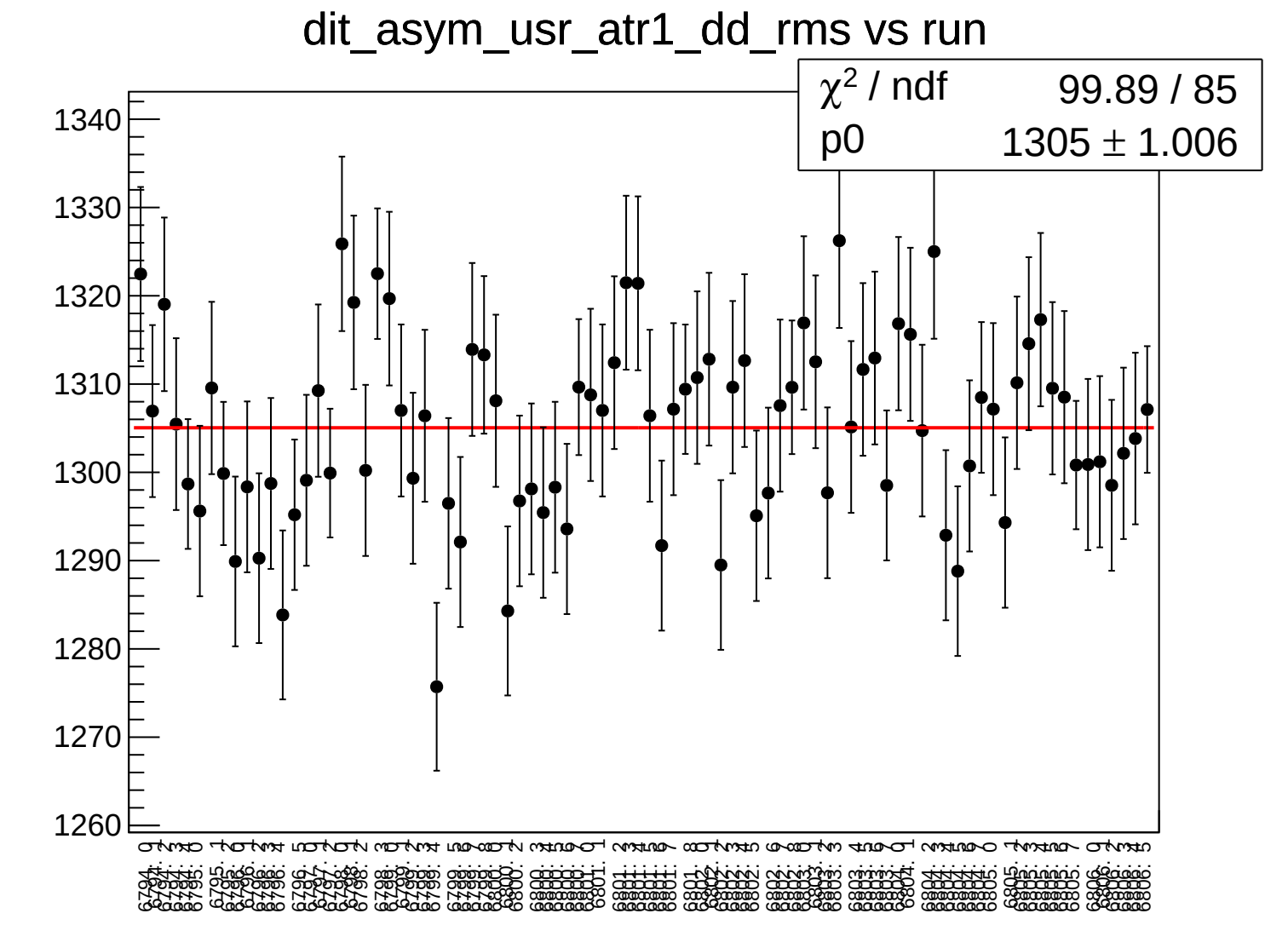

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.01 / 85
p0 −80.7 ± 723.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −59.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

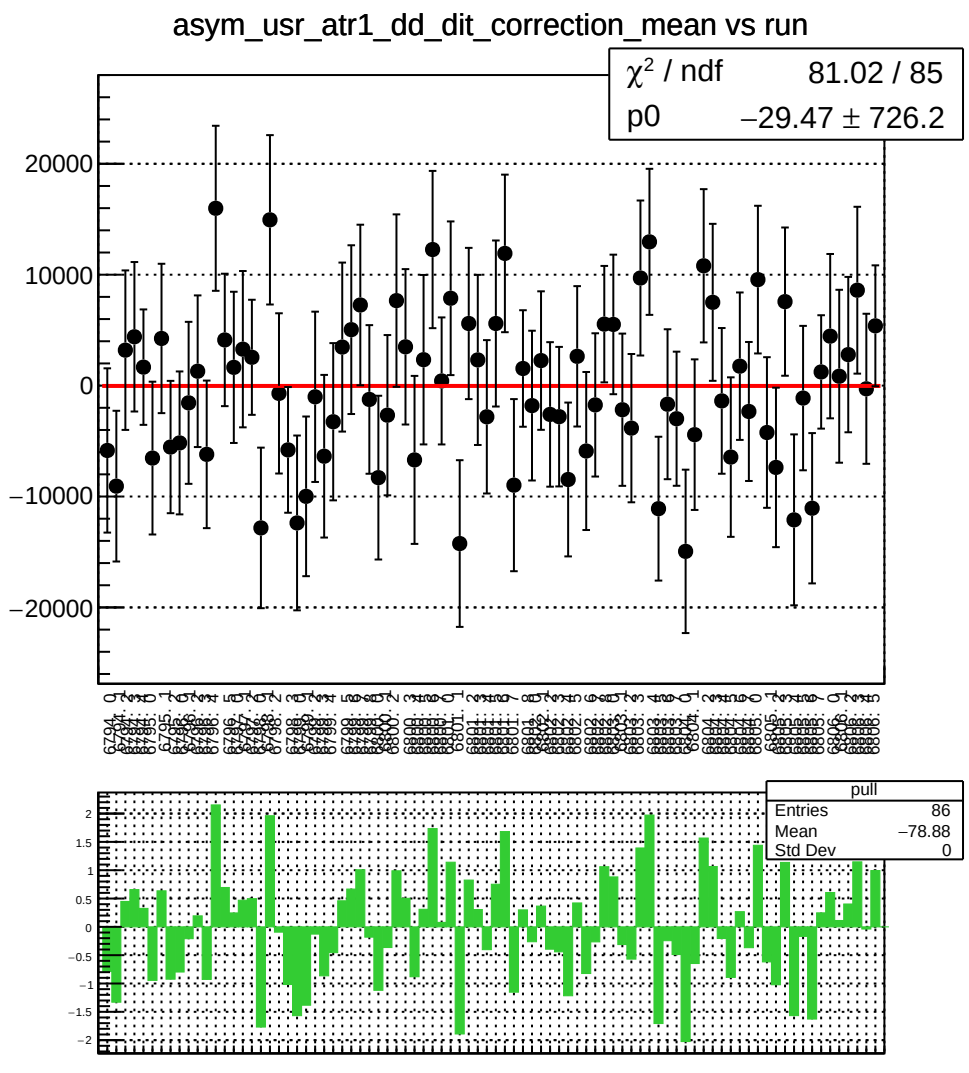

pull1D
Entries 86
Mean −0.01322
Std Dev 0.9704
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

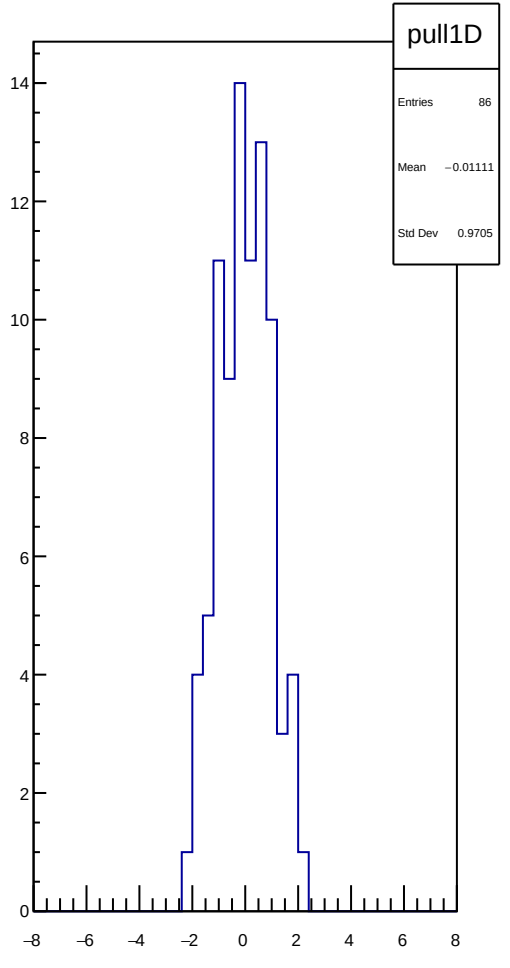

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5696 / 85
p0 662.2 ± 0.5114
750
700
650
600
550

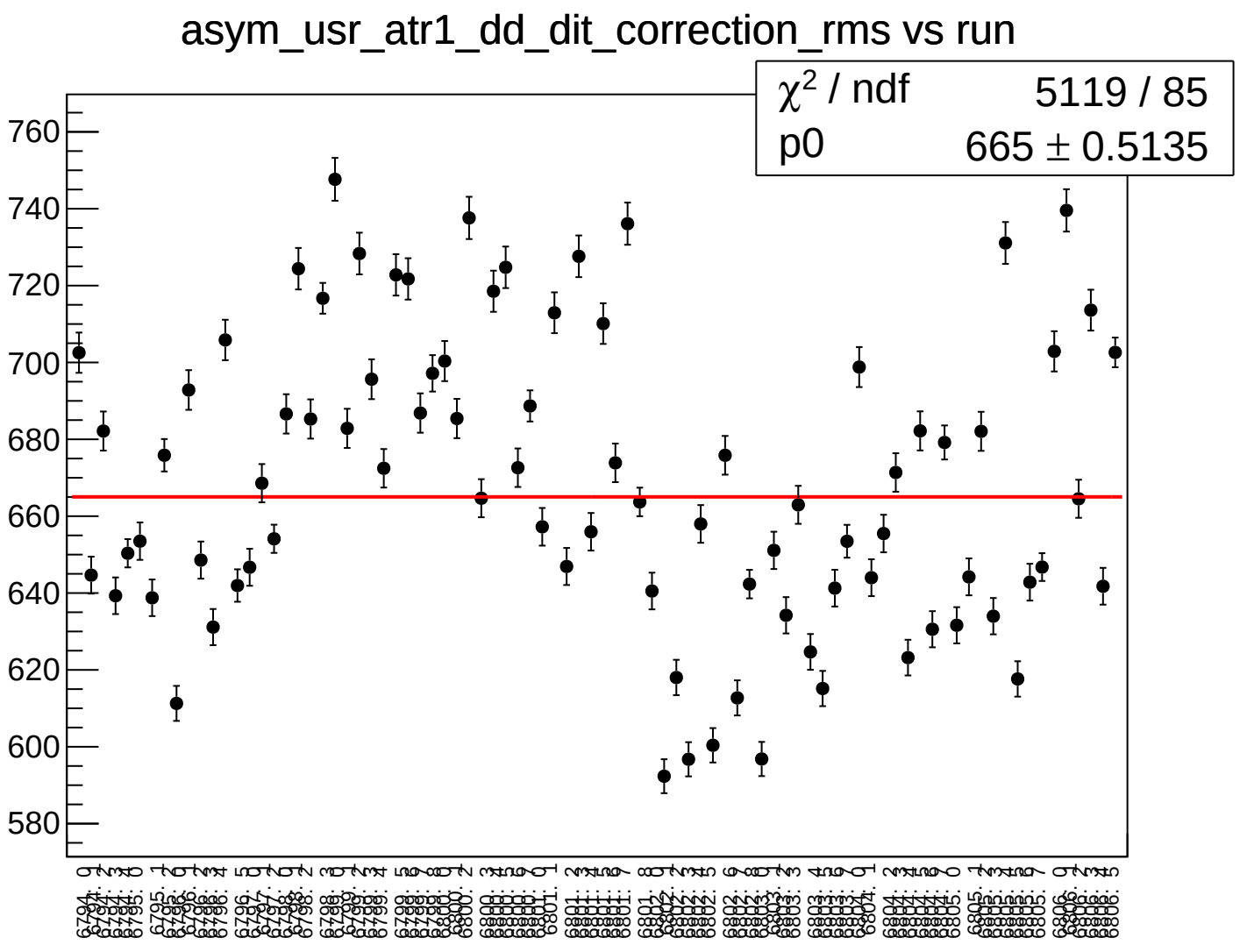

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 110 / 85
p0 −2109 ± 1423
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.91
Std Dev 65.38
2
1
0
−1
−2

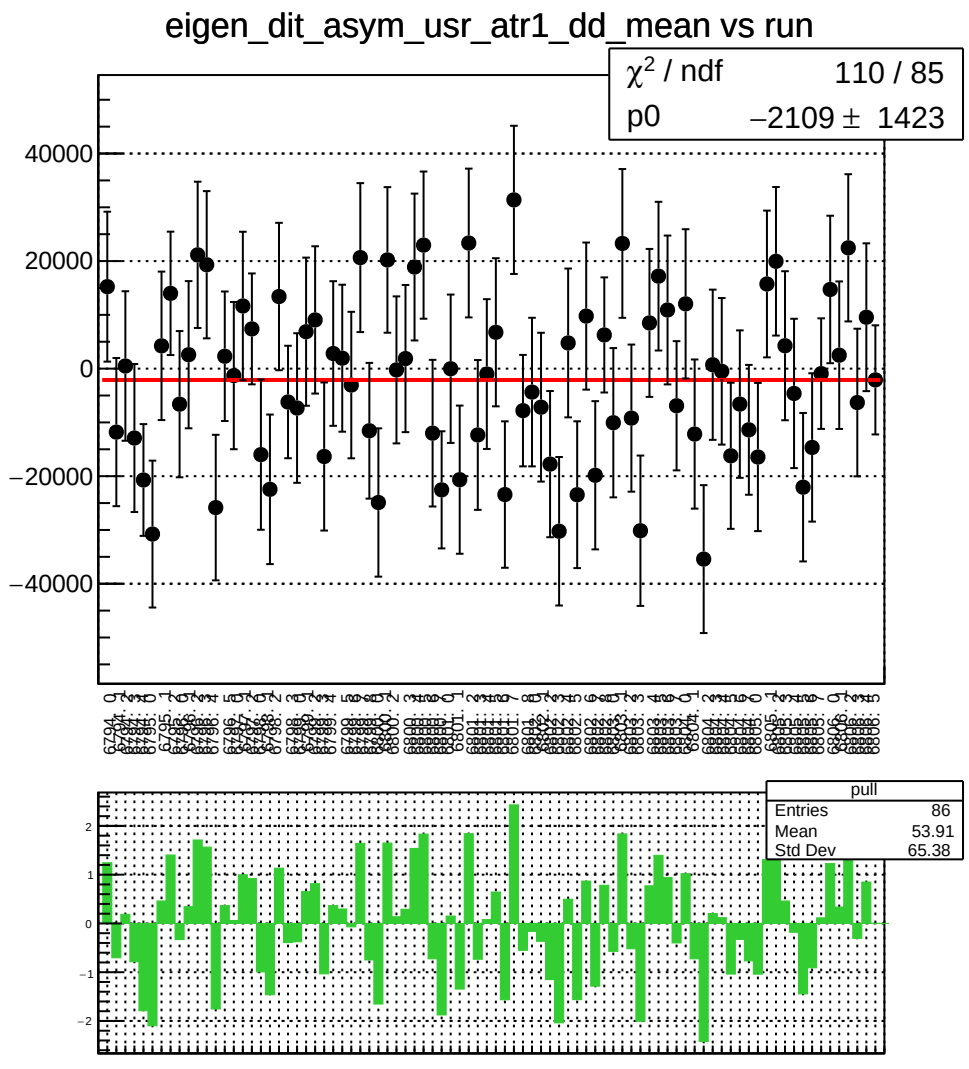

pull1D
Entries 86
Mean 0.007842
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

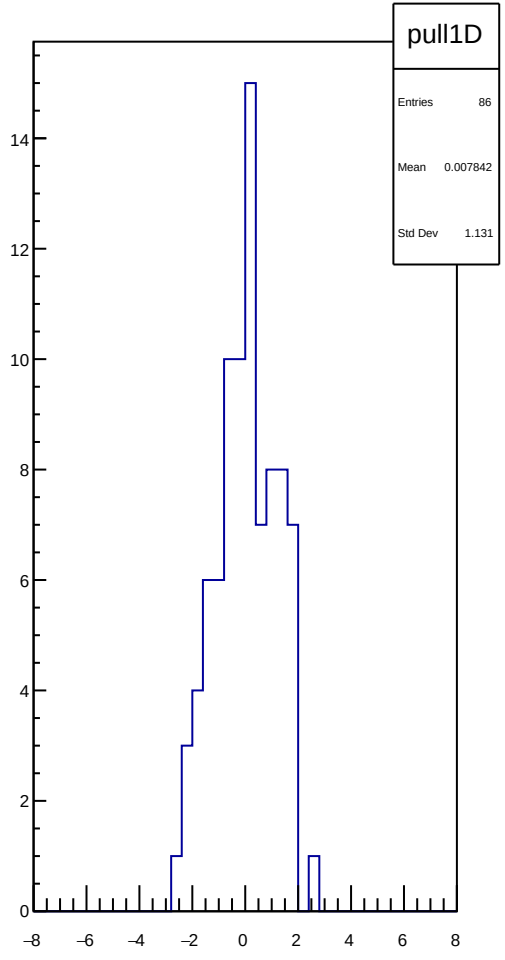

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 99.89 / 85
p0 1305 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270
1260

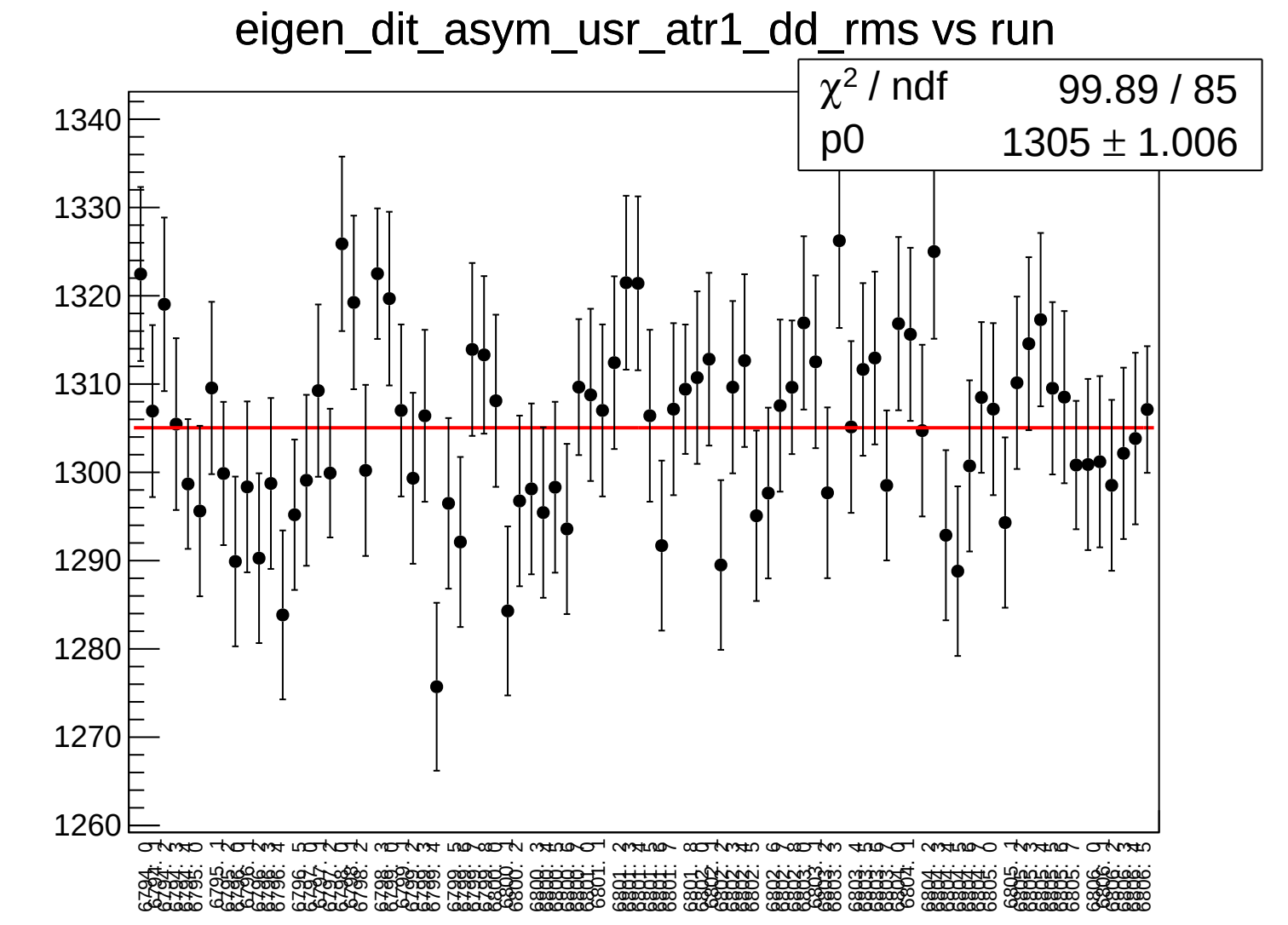

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 81.02 / 85
p0 −29.47 ± 726.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −78.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

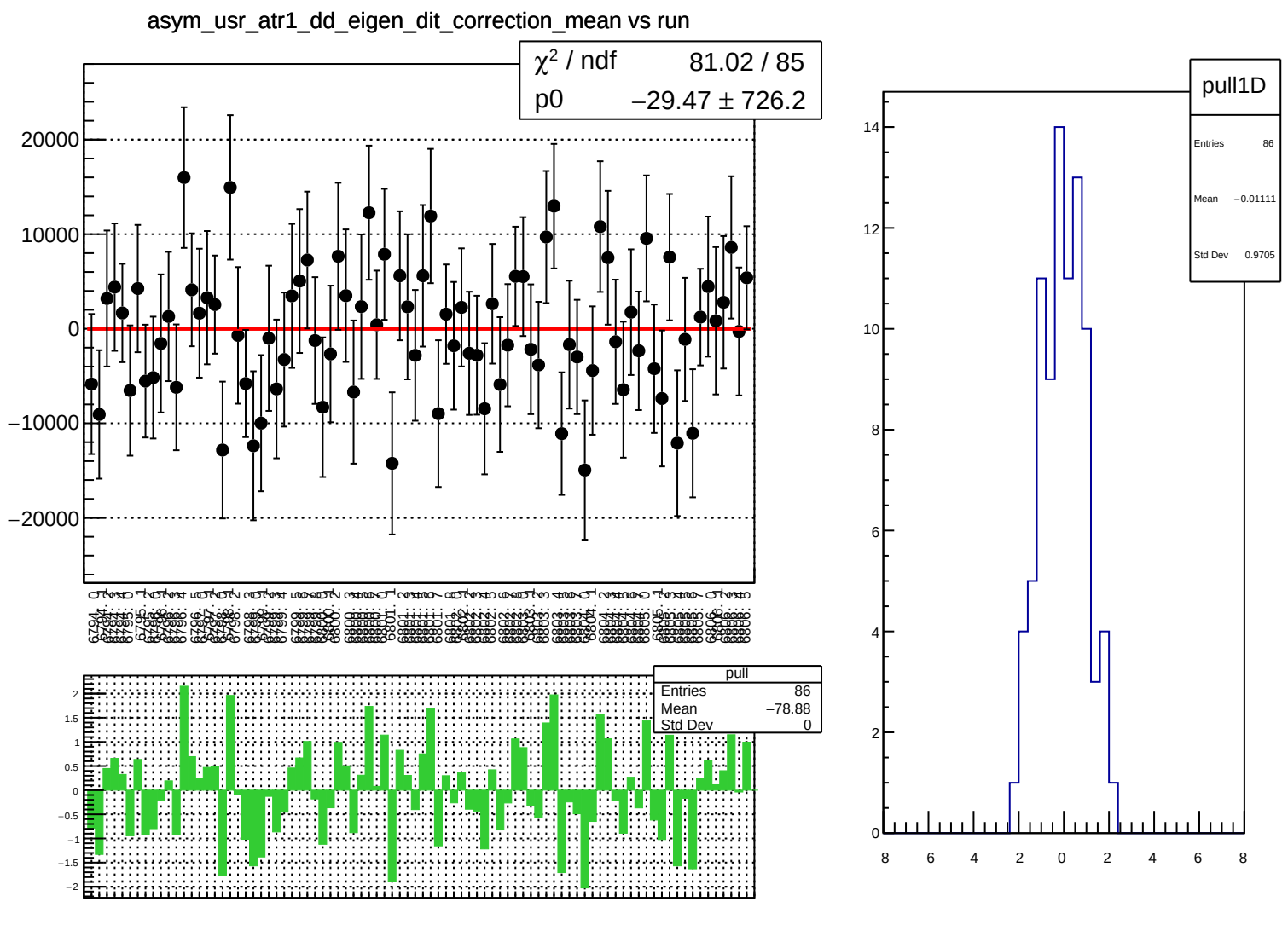

pull1D
Entries 86
Mean −0.01111
Std Dev 0.9705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

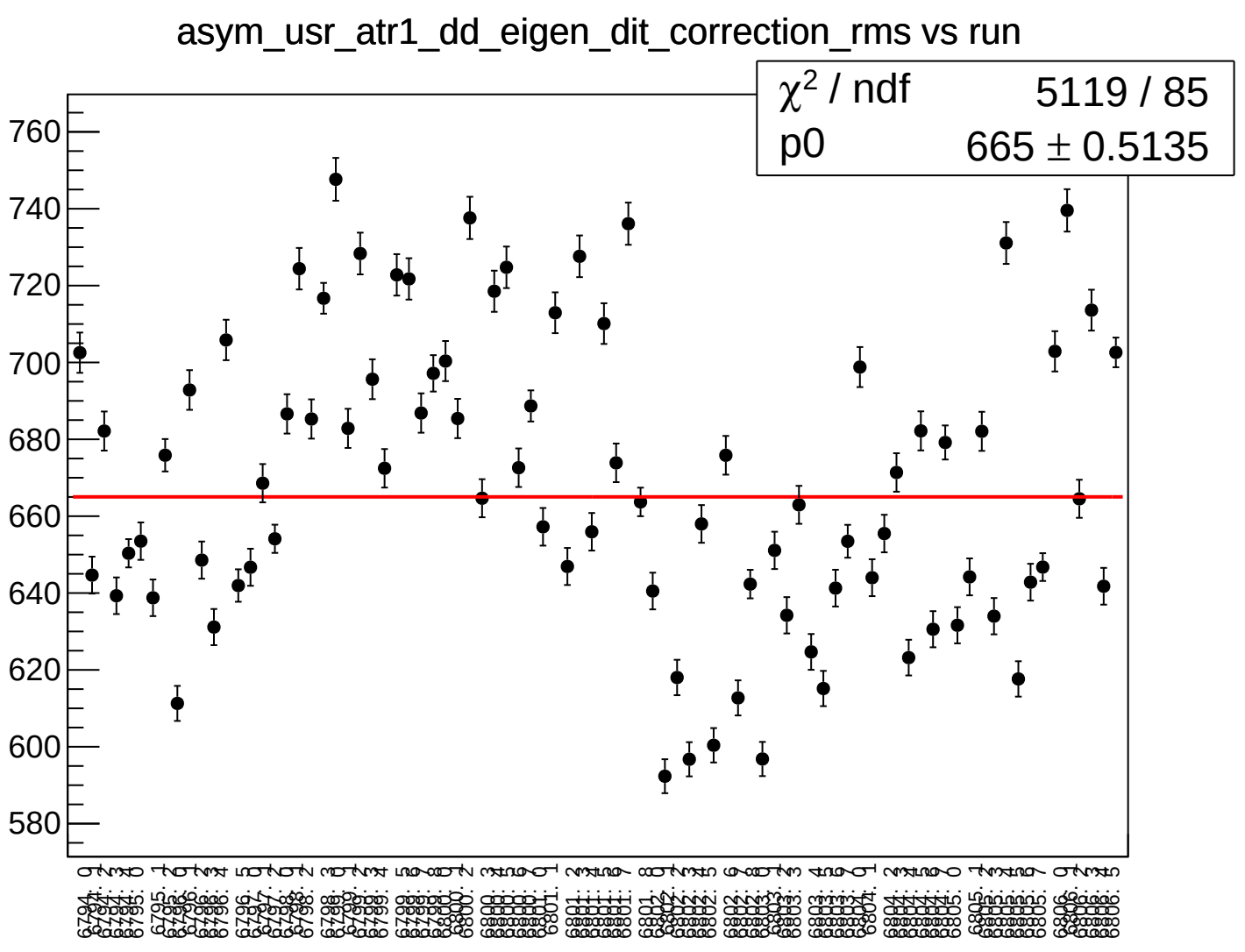

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5119 / 85
p0 665 ± 0.5135
760
740
720
700
680
660
640
620
600
580

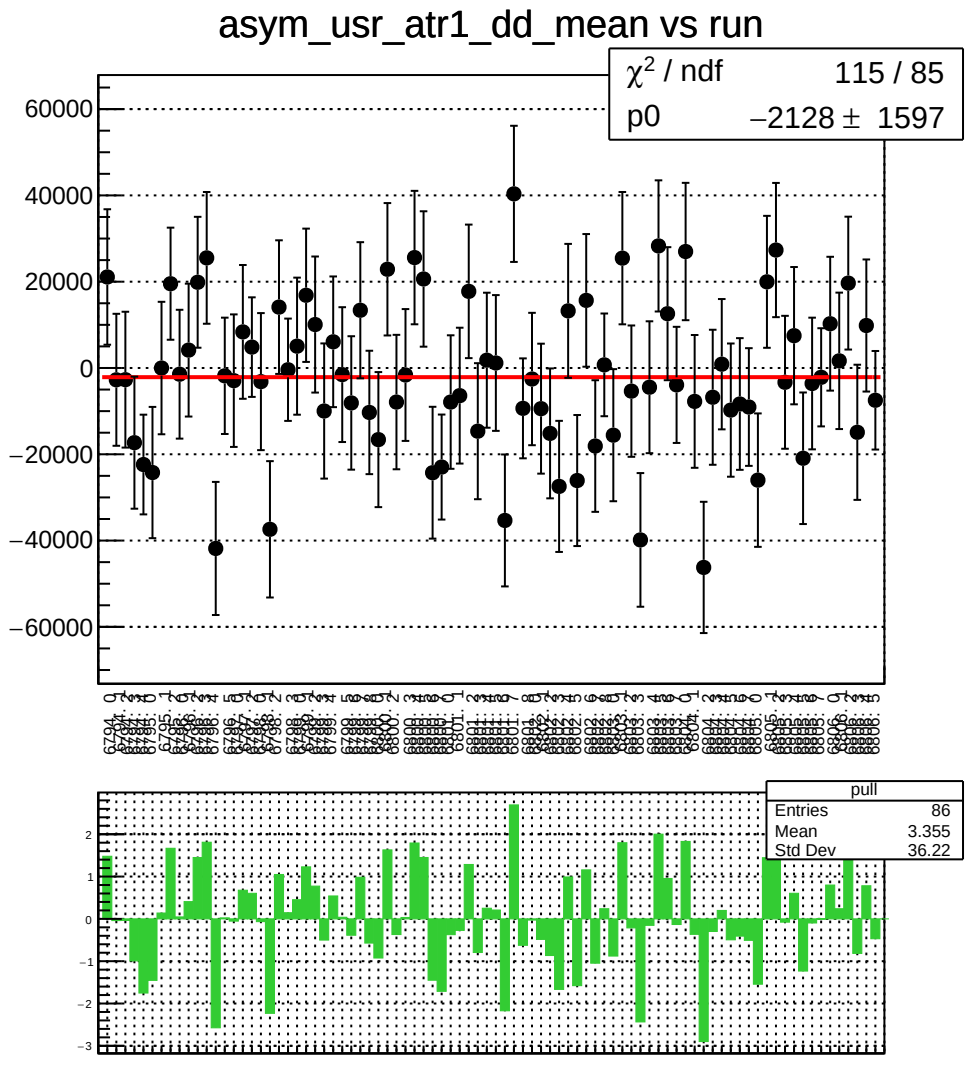

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 110 / 85
p0 −2109 ± 1423
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.91
Std Dev 65.38
2
1
0
−1
−2

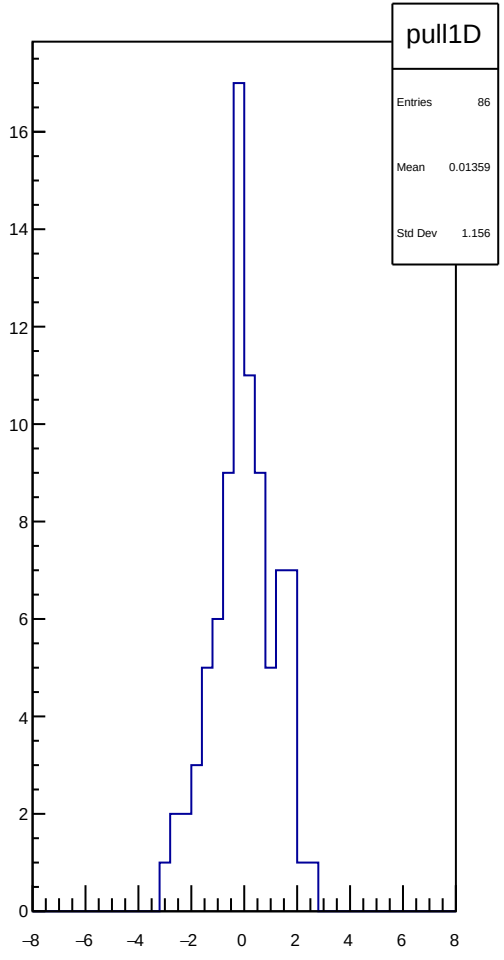

pull1D
Entries 86
Mean 0.007842
Std Dev 1.131
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

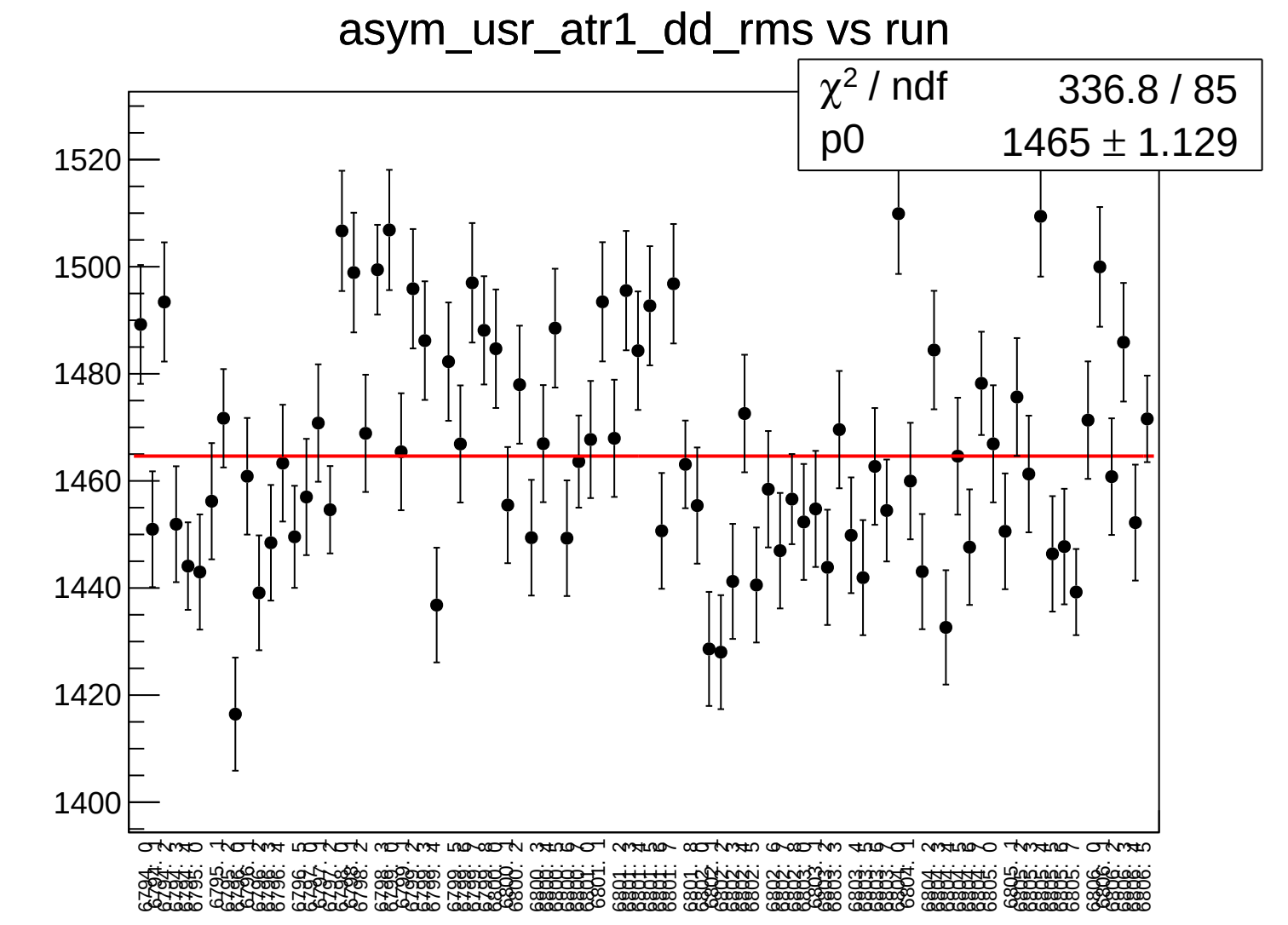

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 99.89 / 85
p0 1305 ± 1.006
1340
1330
1320
1310
1300
1290
1280
1270
1260

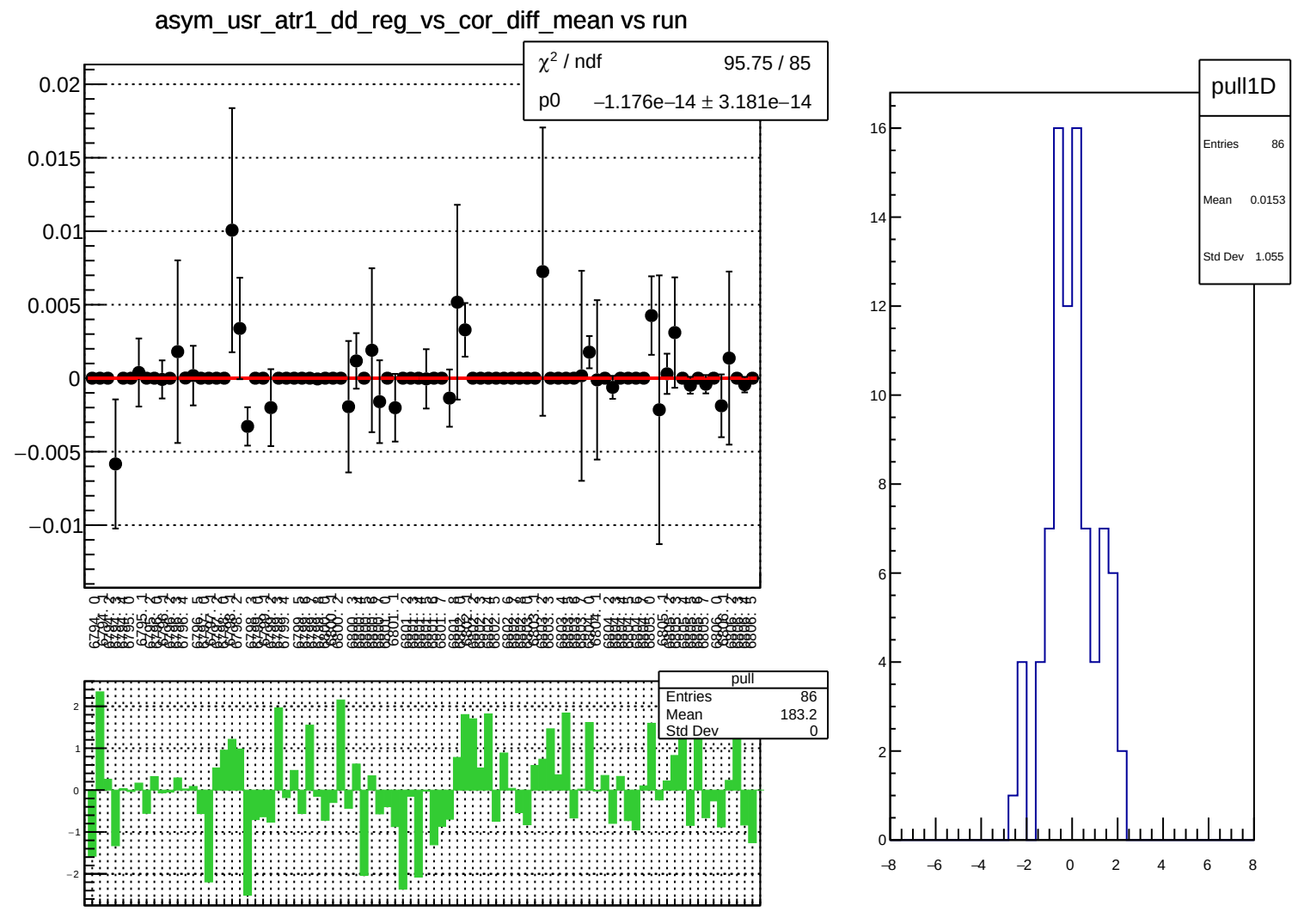

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.02 / 85
p0 −29.47 ± 726.2
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −78.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.01111
Std Dev 0.9705
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

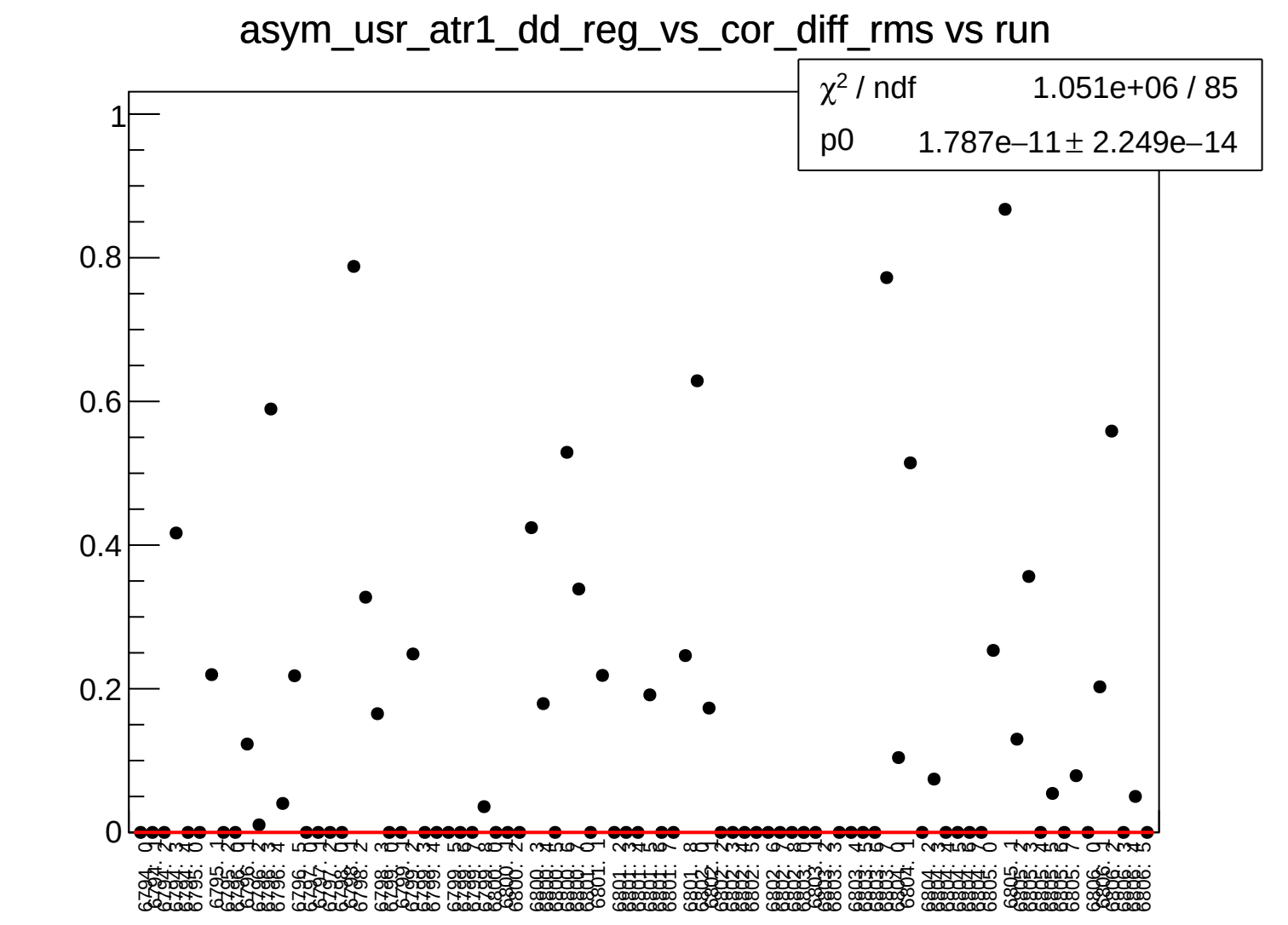

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5119 / 85
p0 665 ± 0.5135
760
740
720
700
680
660
640
620
600
580

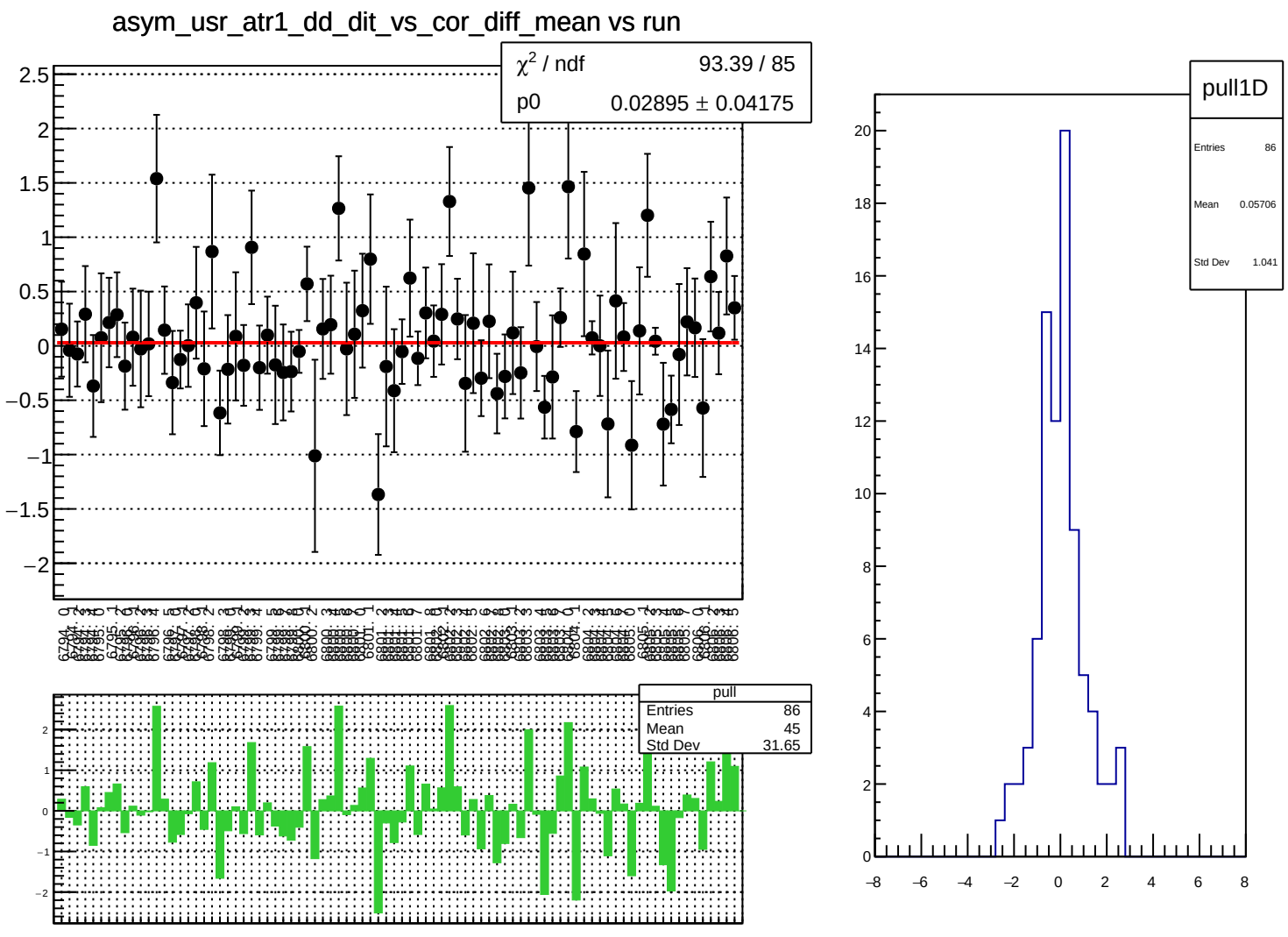

asym_usr_atr1_dd_mean vs run
χ² / ndf 115 / 85
p0 −2128 ± 1597
pull
Entries 86
Mean 3.355
Std Dev 36.22

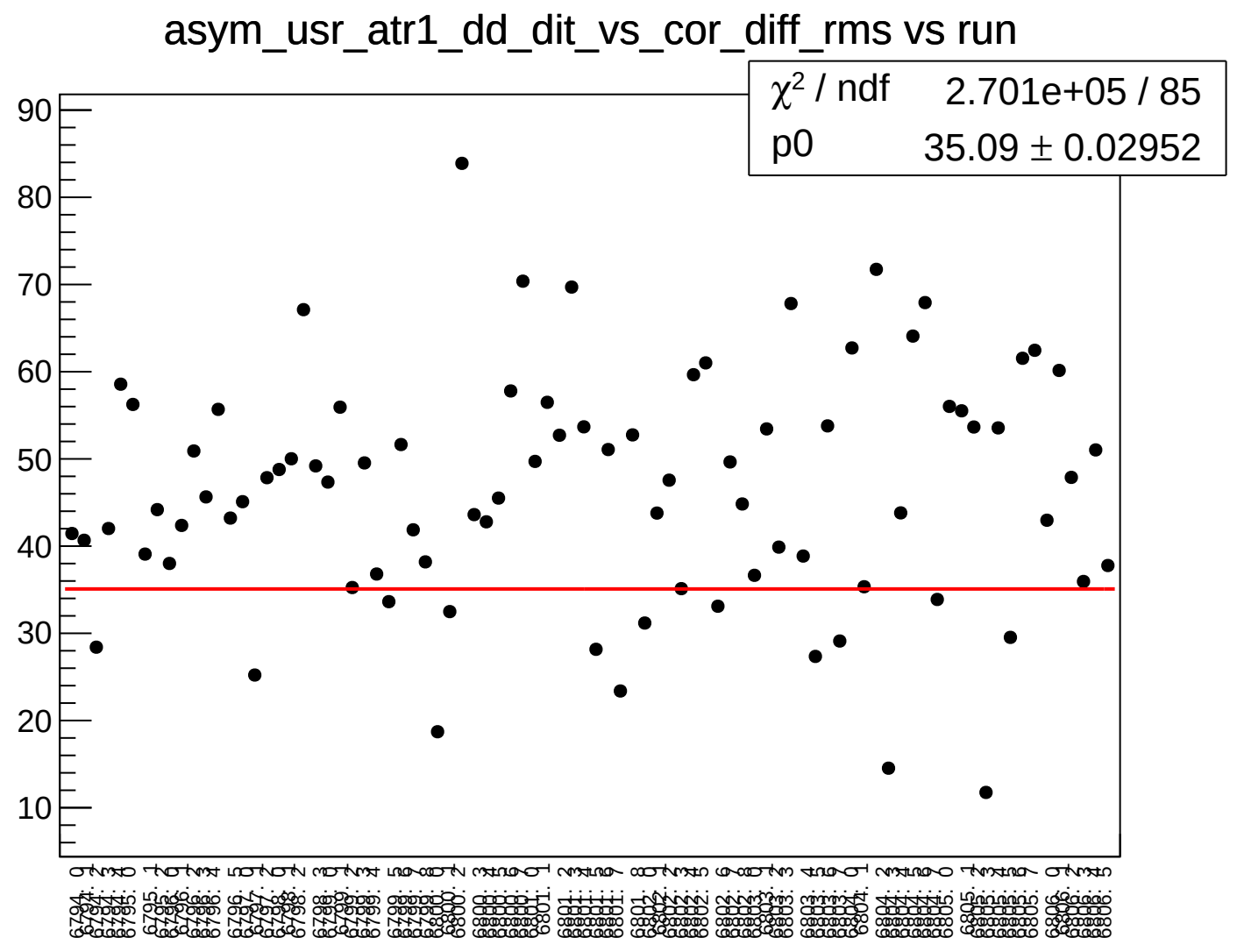

pull1D
Entries 86
Mean 0.01359
Std Dev 1.156

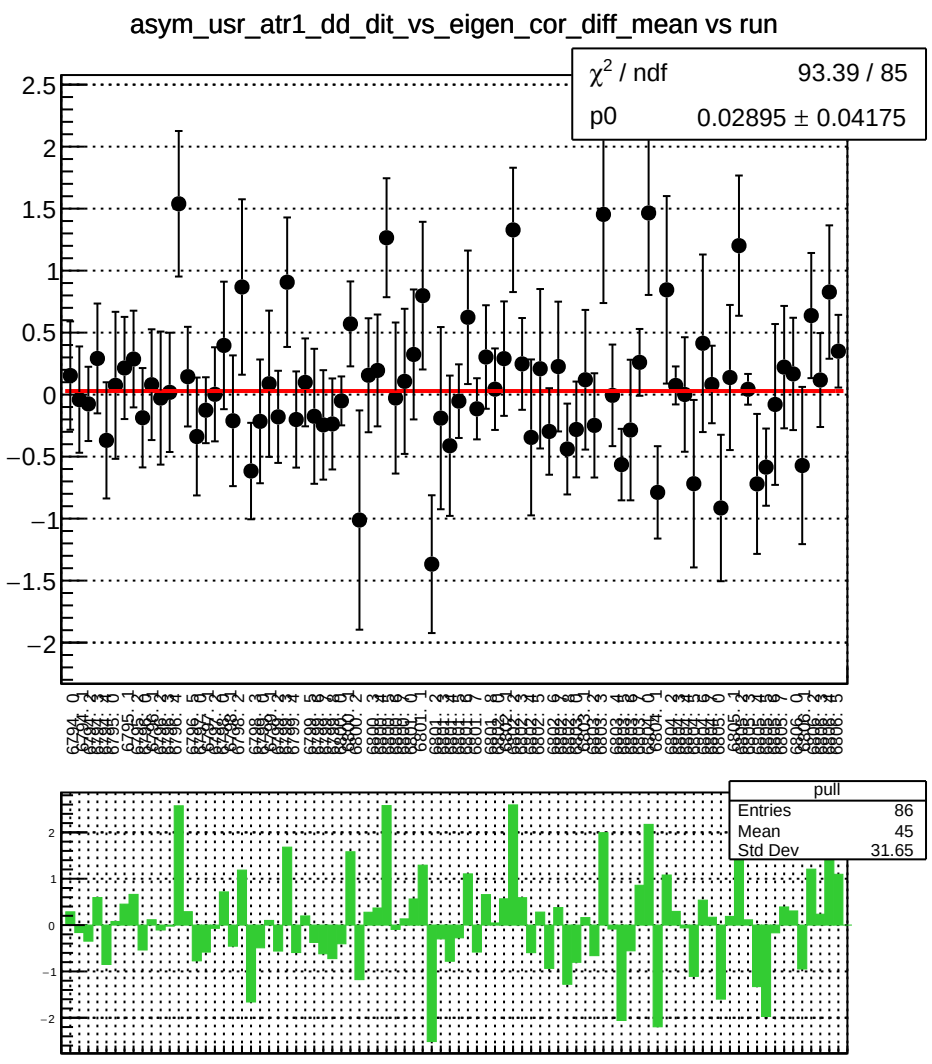

asym_usr_atr1_dd_rms vs run
χ² / ndf 336.8 / 85
p0 1465 ± 1.129
1520
1500
1480
1460
1440
1420
1400

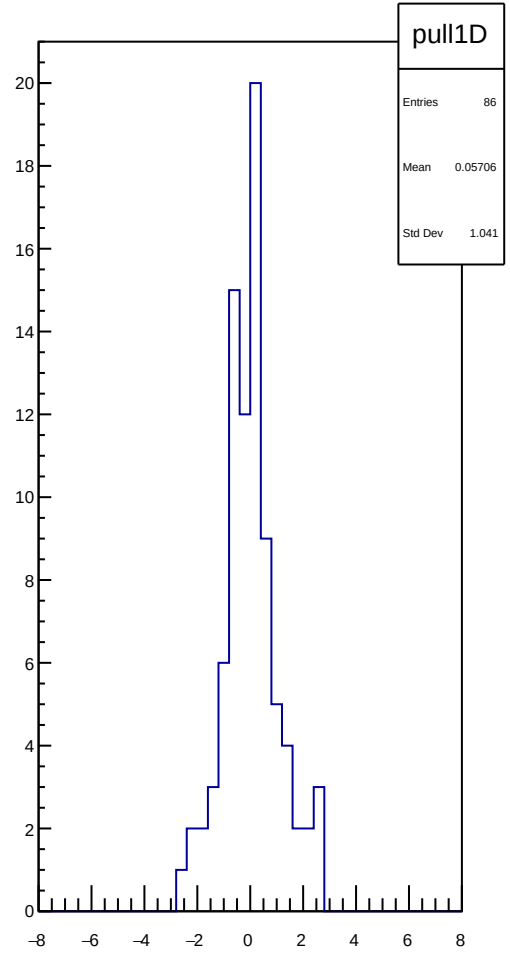

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.75 / 85
p0 −1.176e−14 ± 3.181e−14
pull
Entries 86
Mean 183.2
Std Dev 0
pull1D
Entries 86
Mean 0.0153
Std Dev 1.055

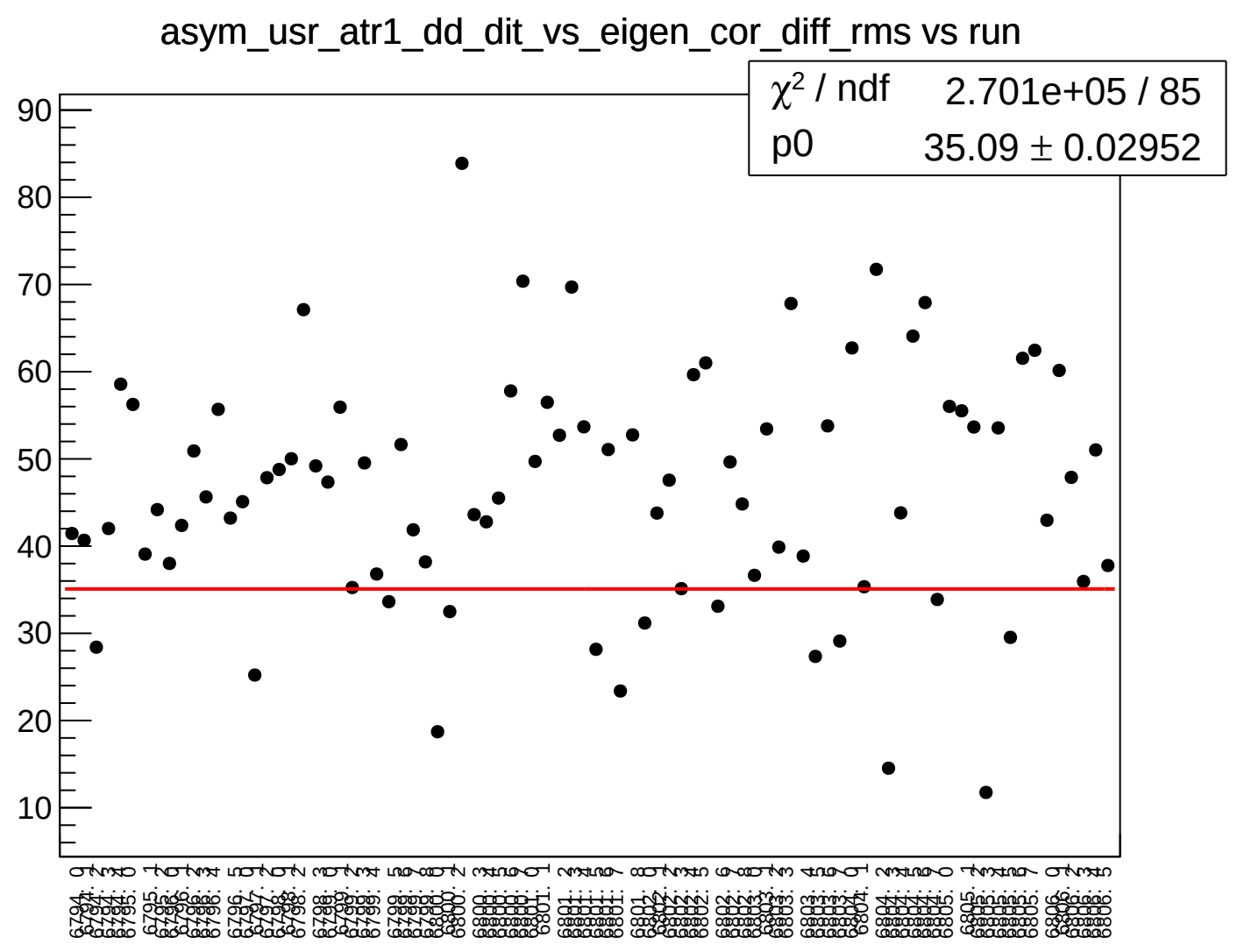

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.051e+06 / 85
p0 1.787e−11 ± 2.249e−14
1
0.8
0.6
0.4
0.2
0

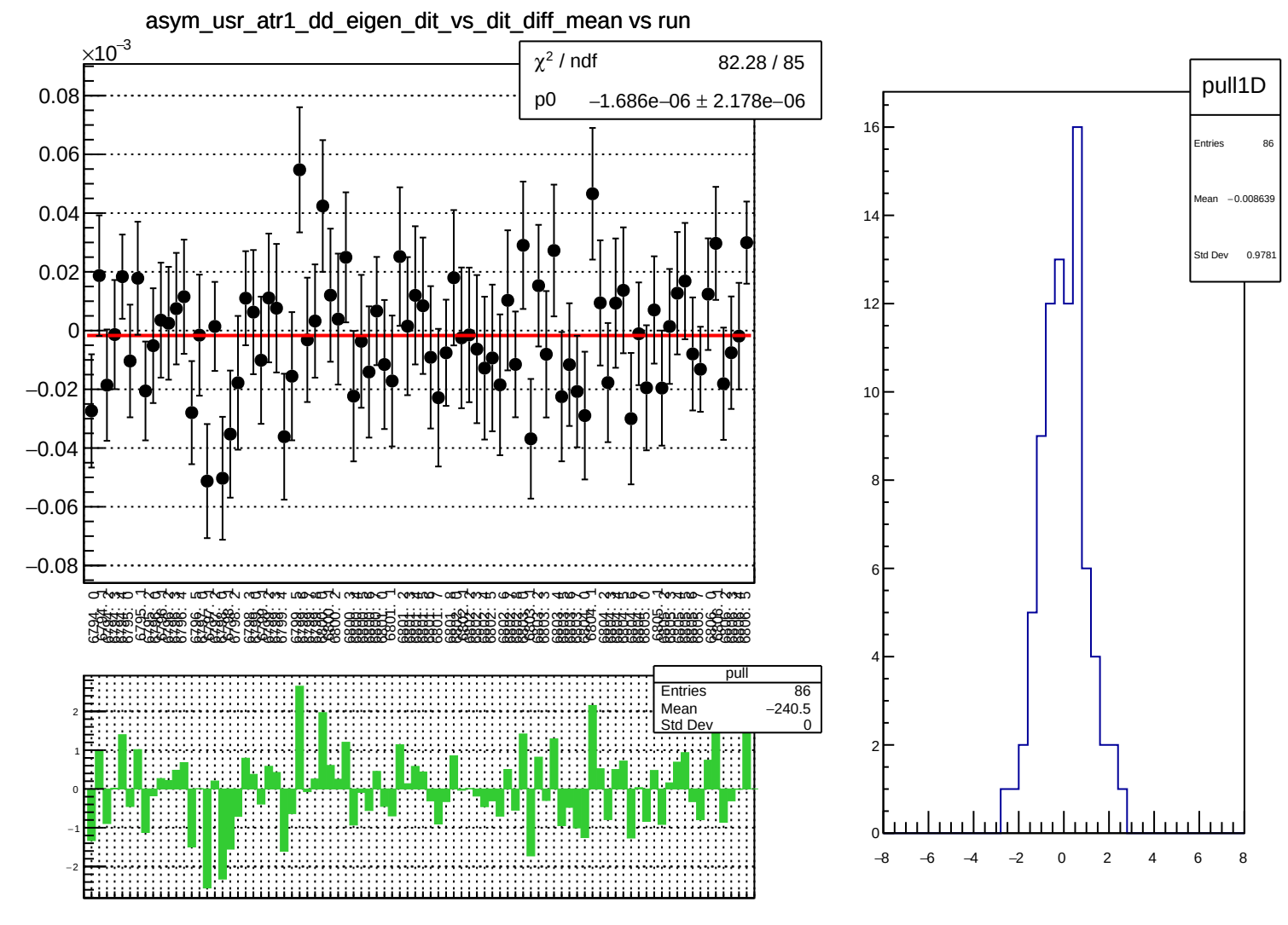

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 85
p0 0.02895 ± 0.04175
pull
Entries 86
Mean 45
Std Dev 31.65
pull1D
Entries 86
Mean 0.05706
Std Dev 1.041

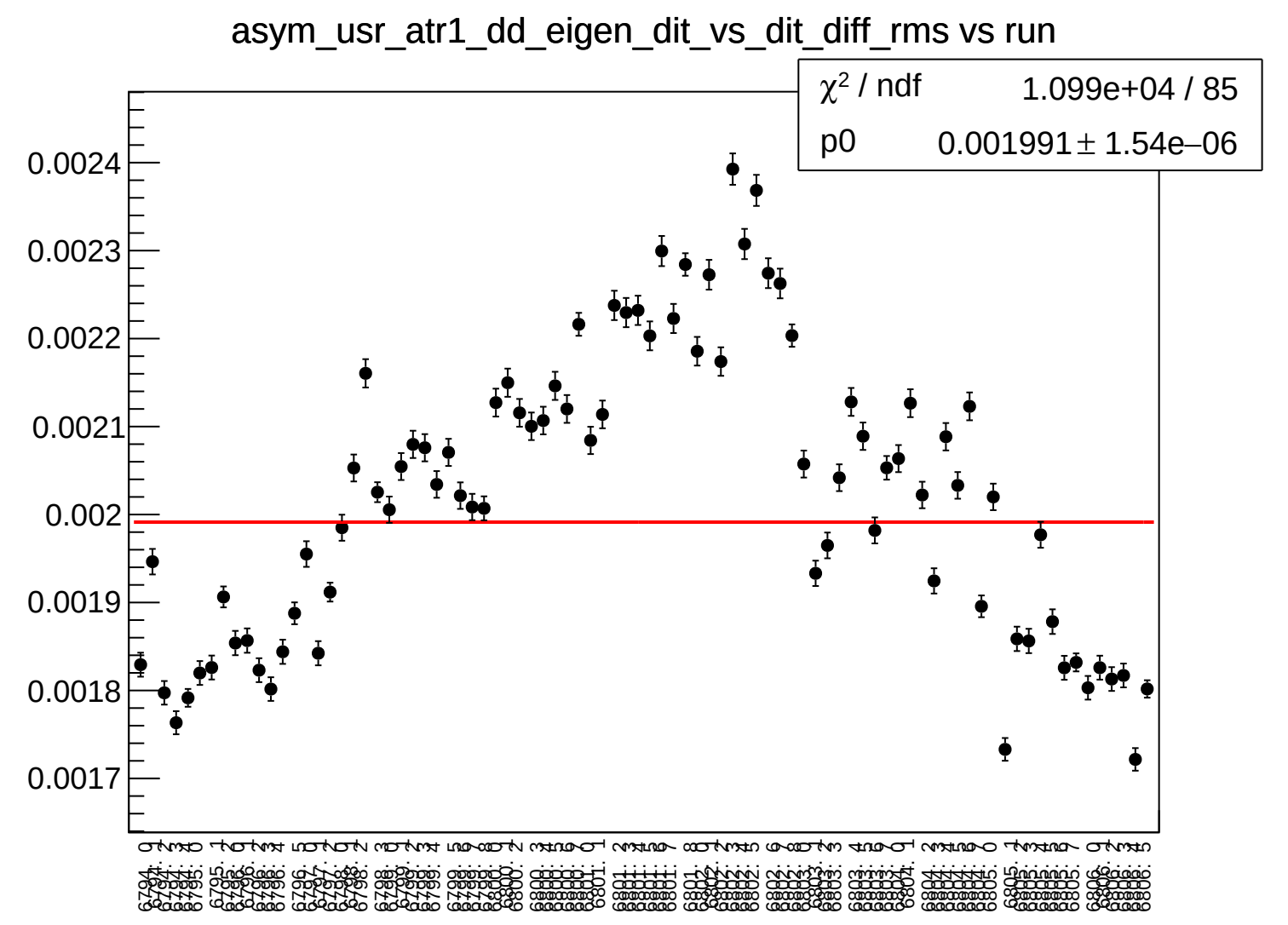

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.701e+05 / 85
p0 35.09 ± 0.02952
90
80
70
60
50
40
30
20
10

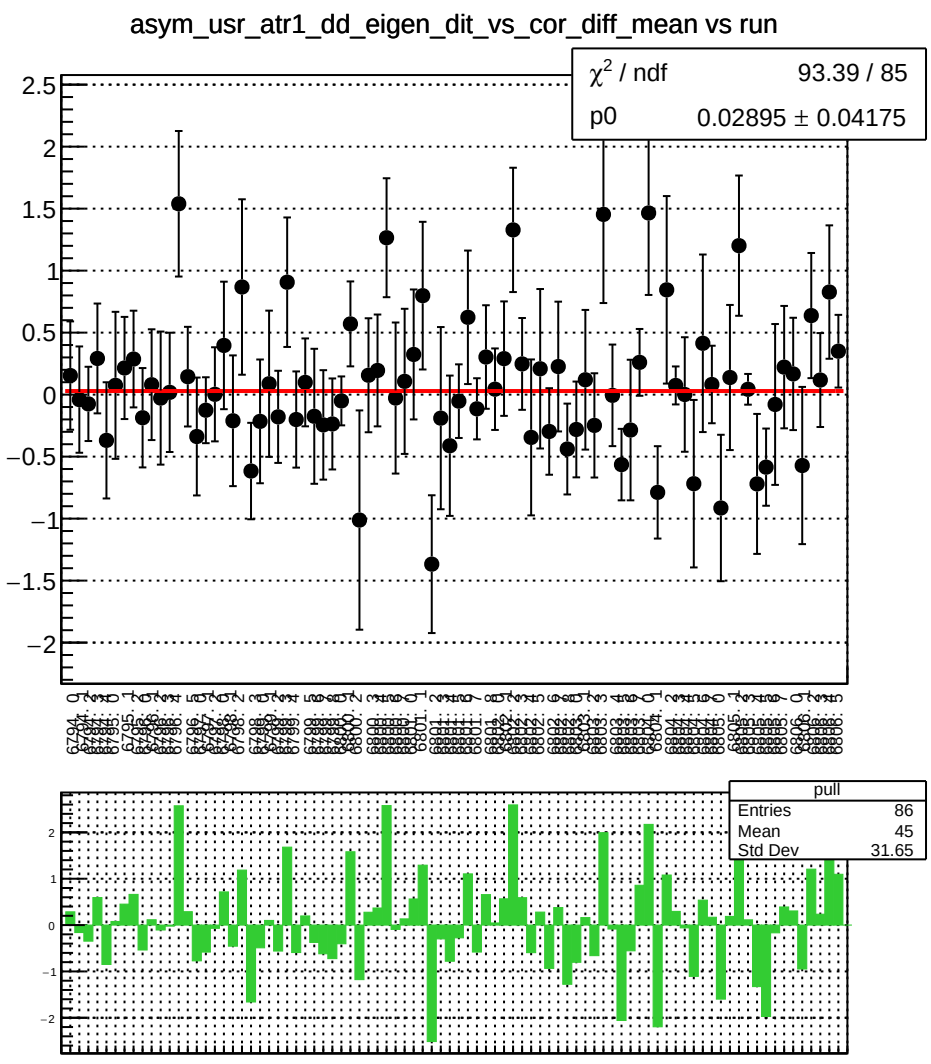

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.39 / 85
p0 0.02895 ± 0.04175
pull
Entries 86
Mean 45
Std Dev 31.65

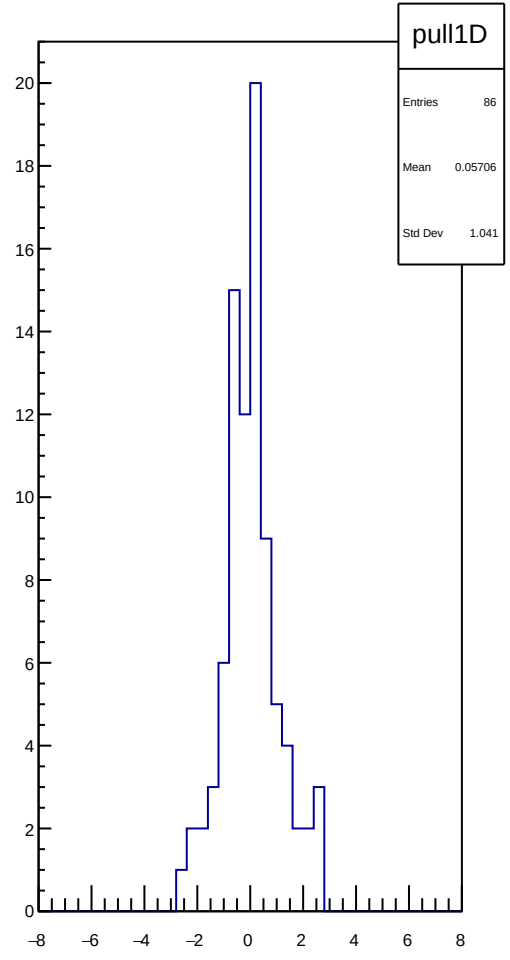

pull1D
Entries 86
Mean 0.05706
Std Dev 1.041

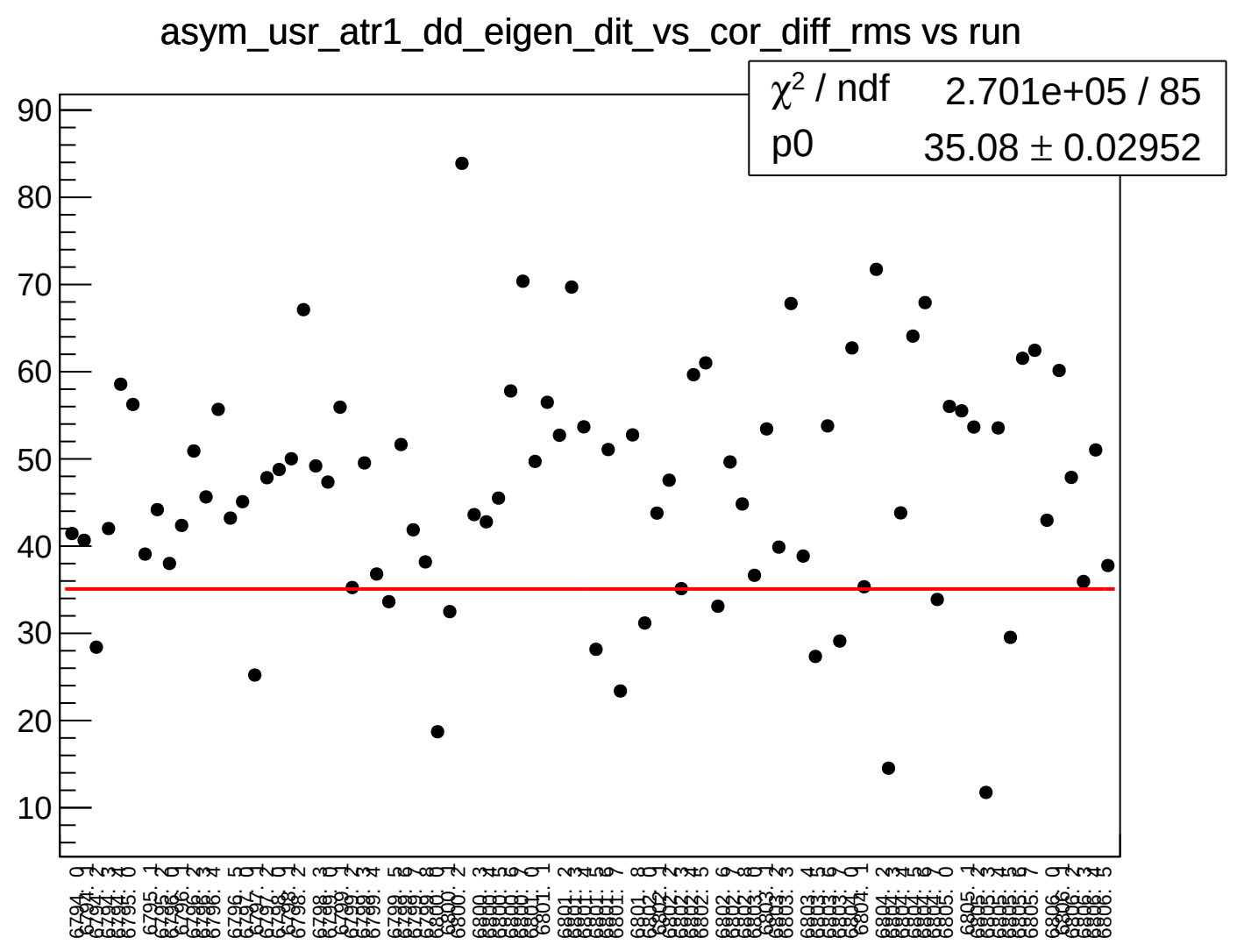

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.701e+05 / 85
p0 35.09 ± 0.02952
90
80
70
60
50
40
30
20
10

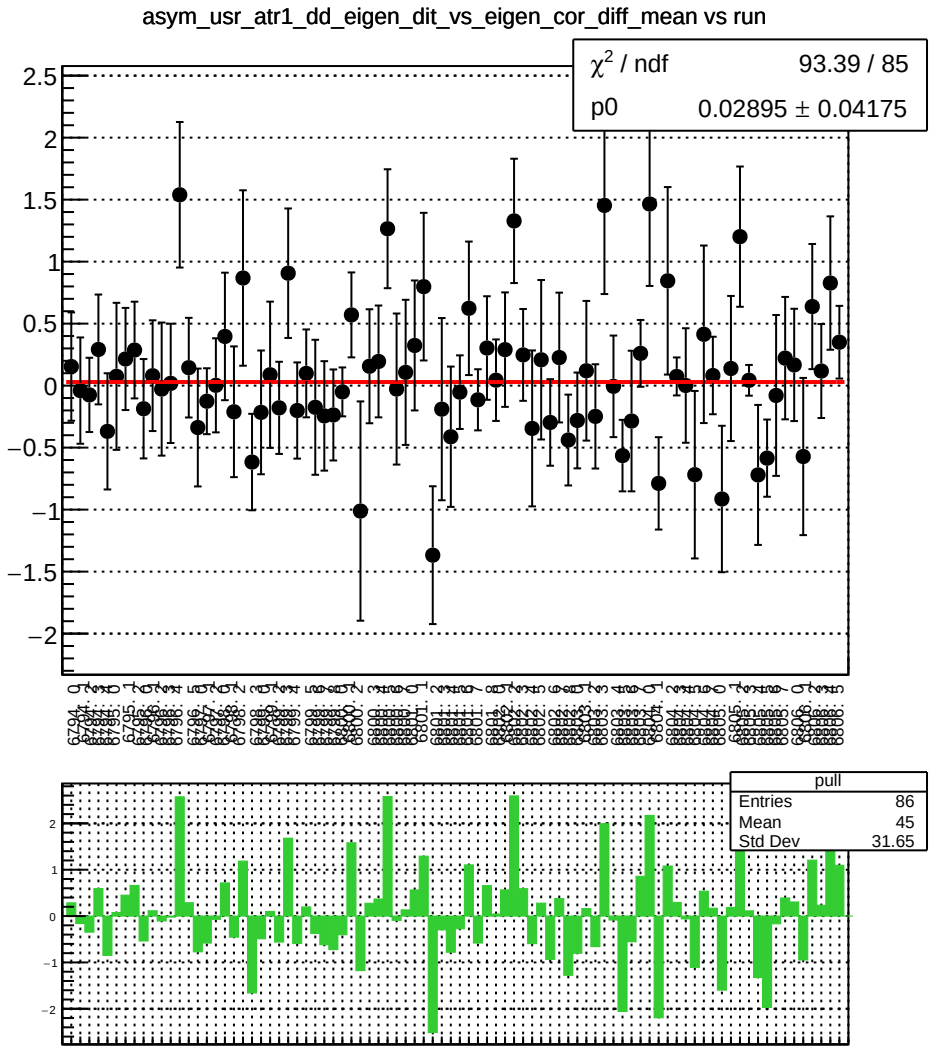

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.28 / 85
p0 −1.686e−06 ± 2.178e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −240.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.008639
Std Dev 0.9781
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

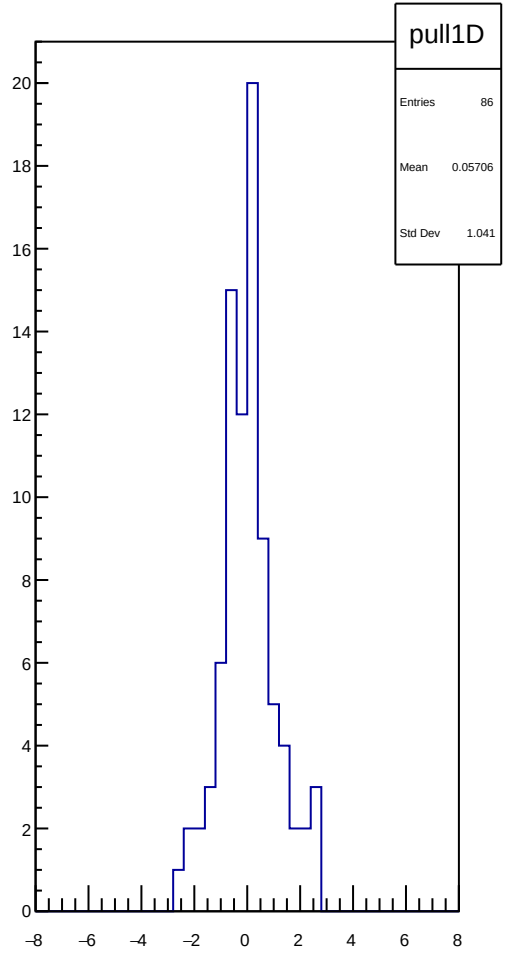

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.099e+04 / 85
p0 0.001991 ± 1.54e–06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

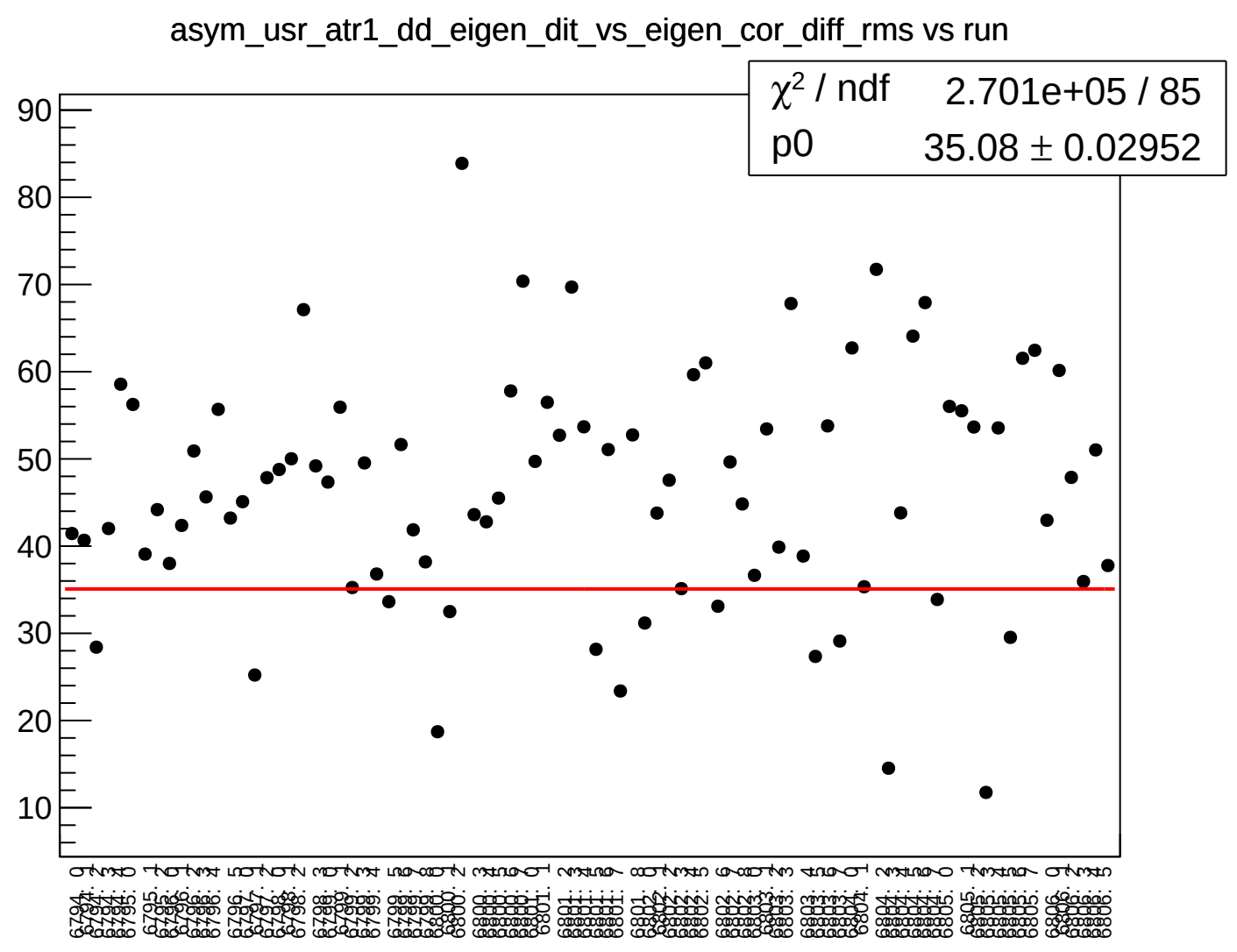

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.39 / 85
p0 0.02895 ± 0.04175
pull
Entries 86
Mean 45
Std Dev 31.65

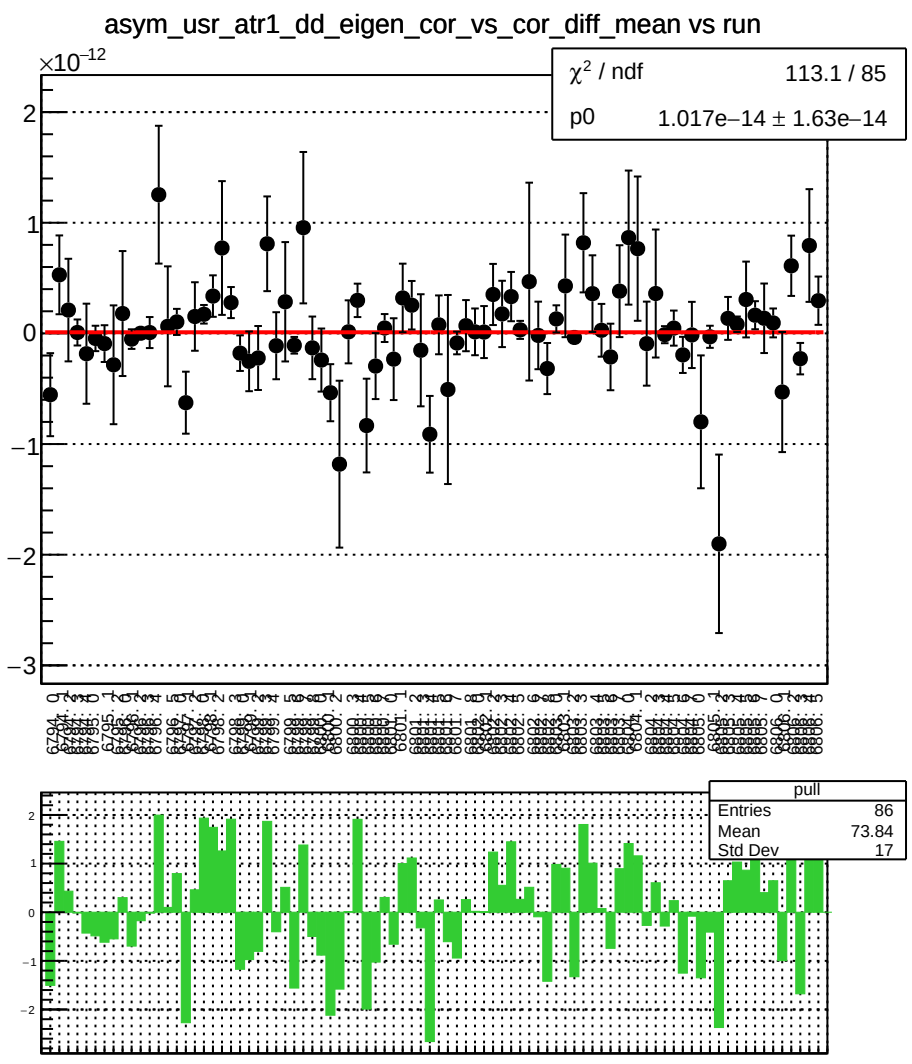

pull1D
Entries 86
Mean 0.05706
Std Dev 1.041

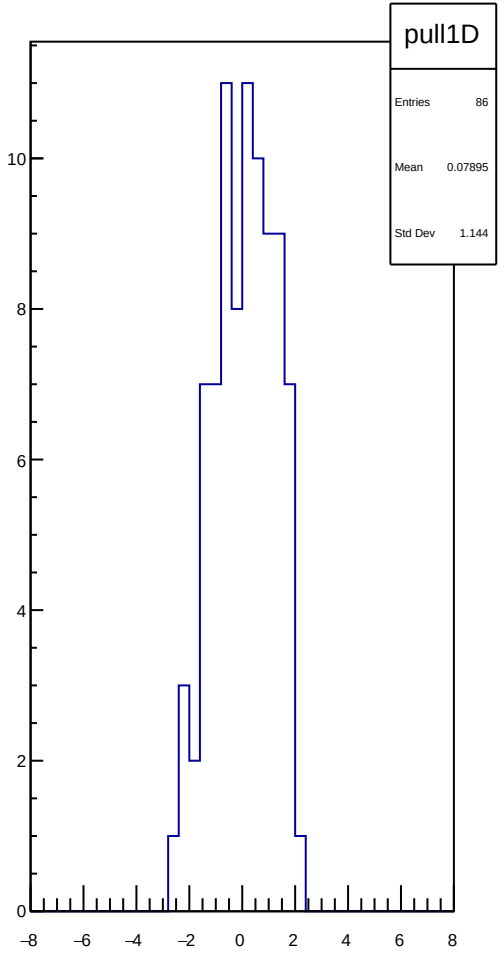

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.701e+05 / 85
p0 35.08 ± 0.02952
90
80
70
60
50
40
30
20
10

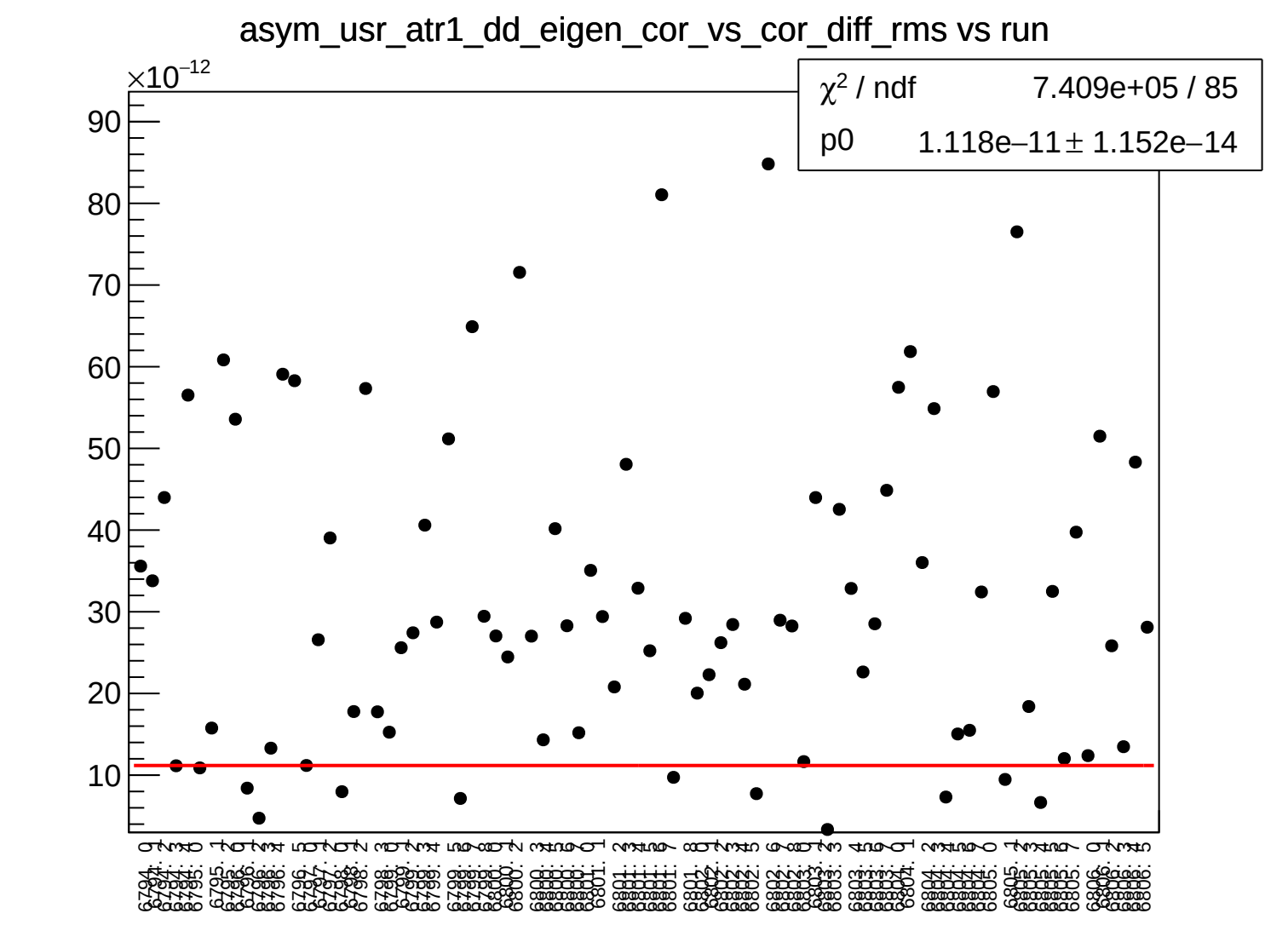

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.39 / 85
p0 0.02895 ± 0.04175
pull
Entries 86
Mean 45
Std Dev 31.65

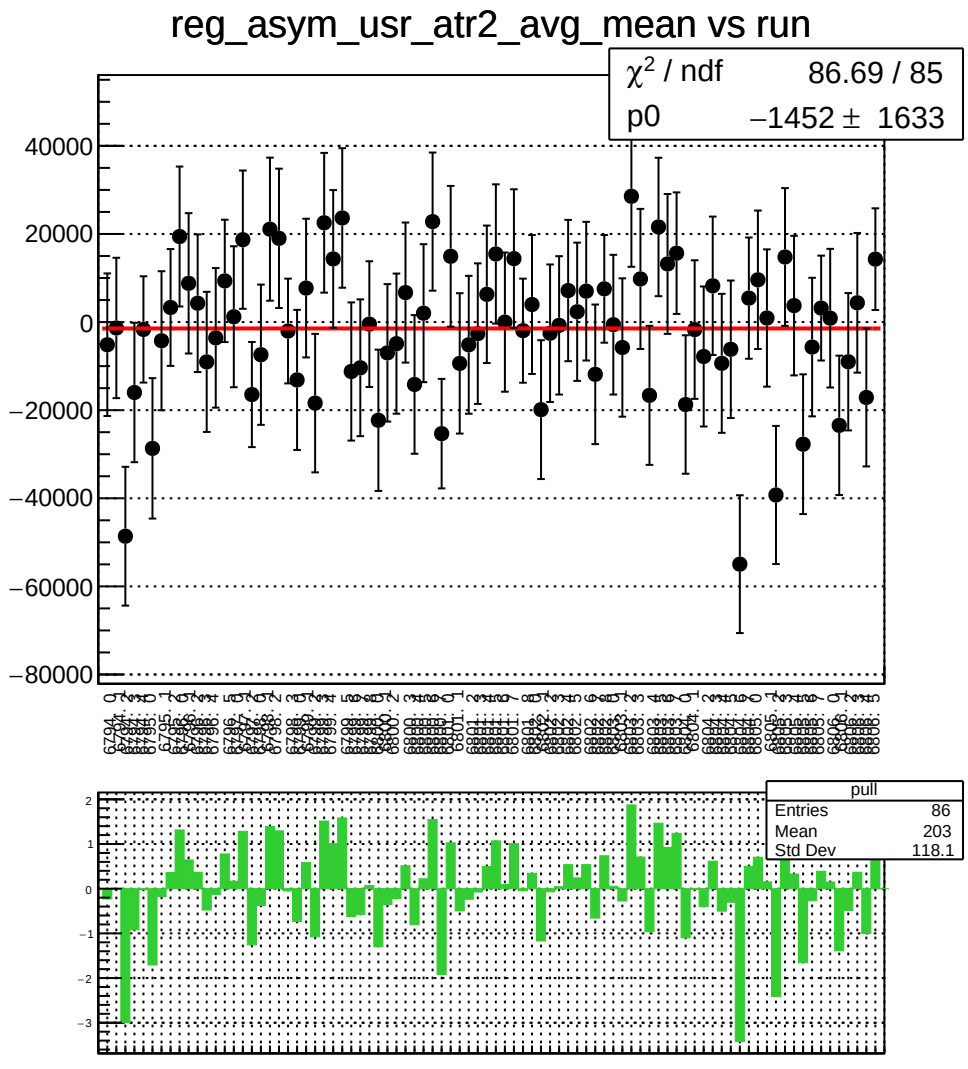

pull1D
Entries 86
Mean 0.05706
Std Dev 1.041

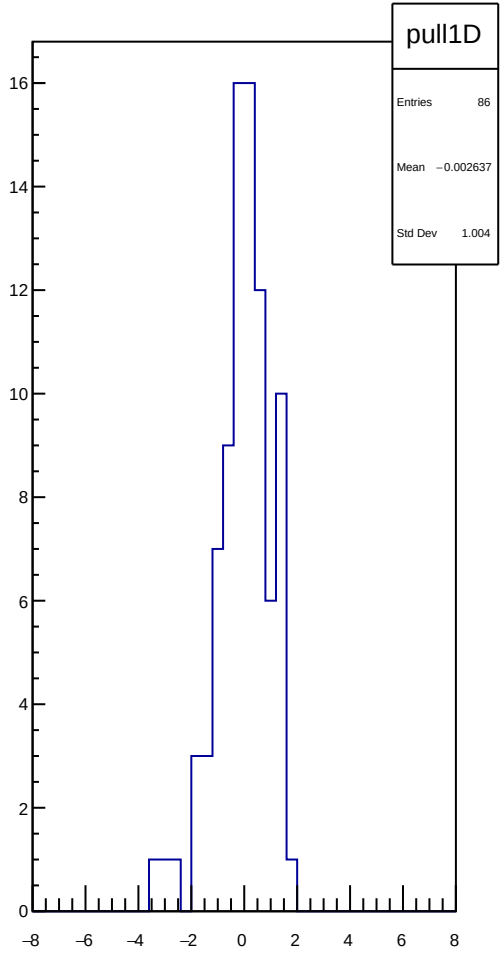

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.701e+05 / 85
p0 35.08 ± 0.02952
90
80
70
60
50
40
30
20
10

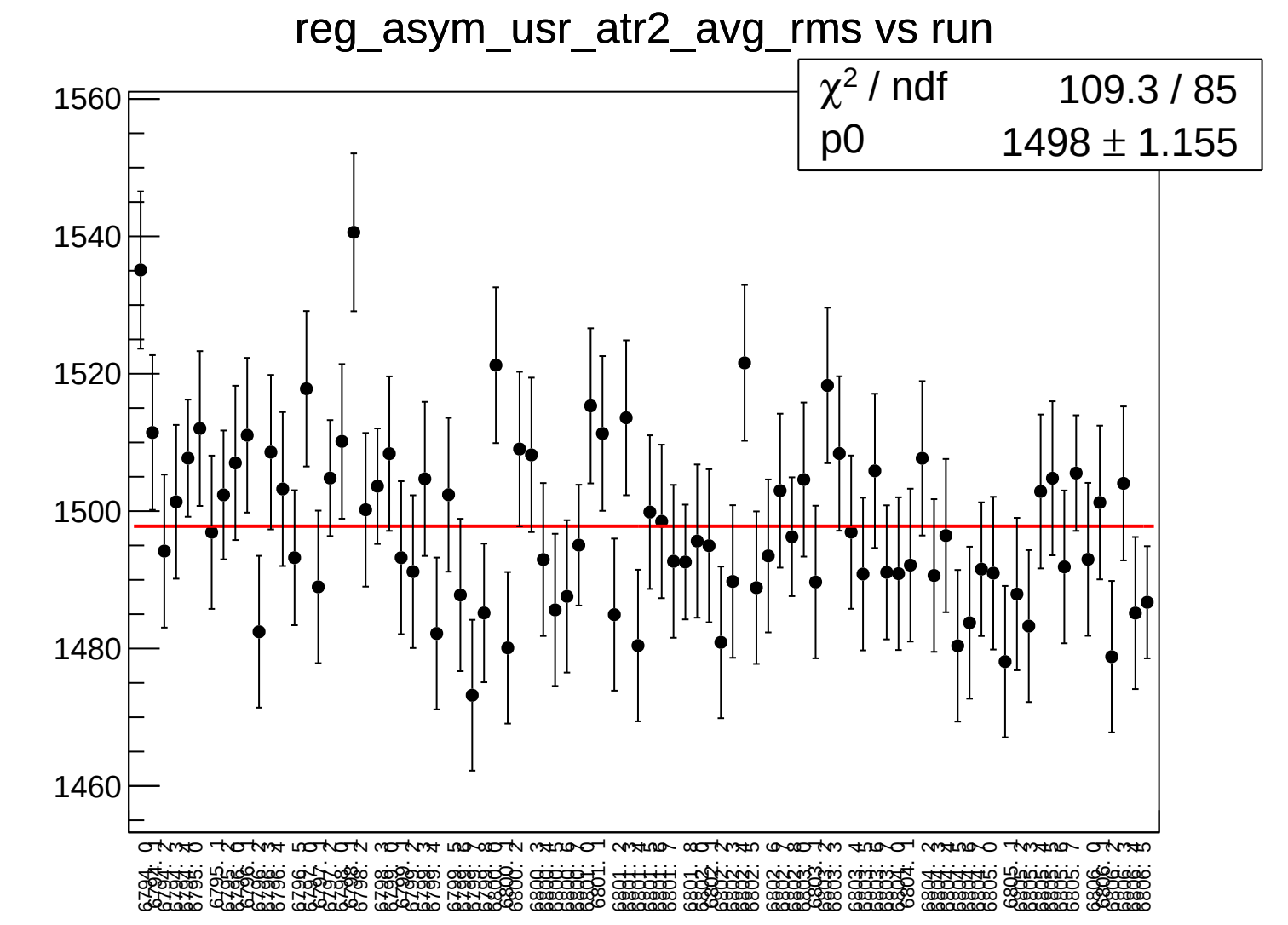

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.1 / 85
p0 1.017e−14 ± 1.63e−14
pull
Entries 86
Mean 73.84
Std Dev 17

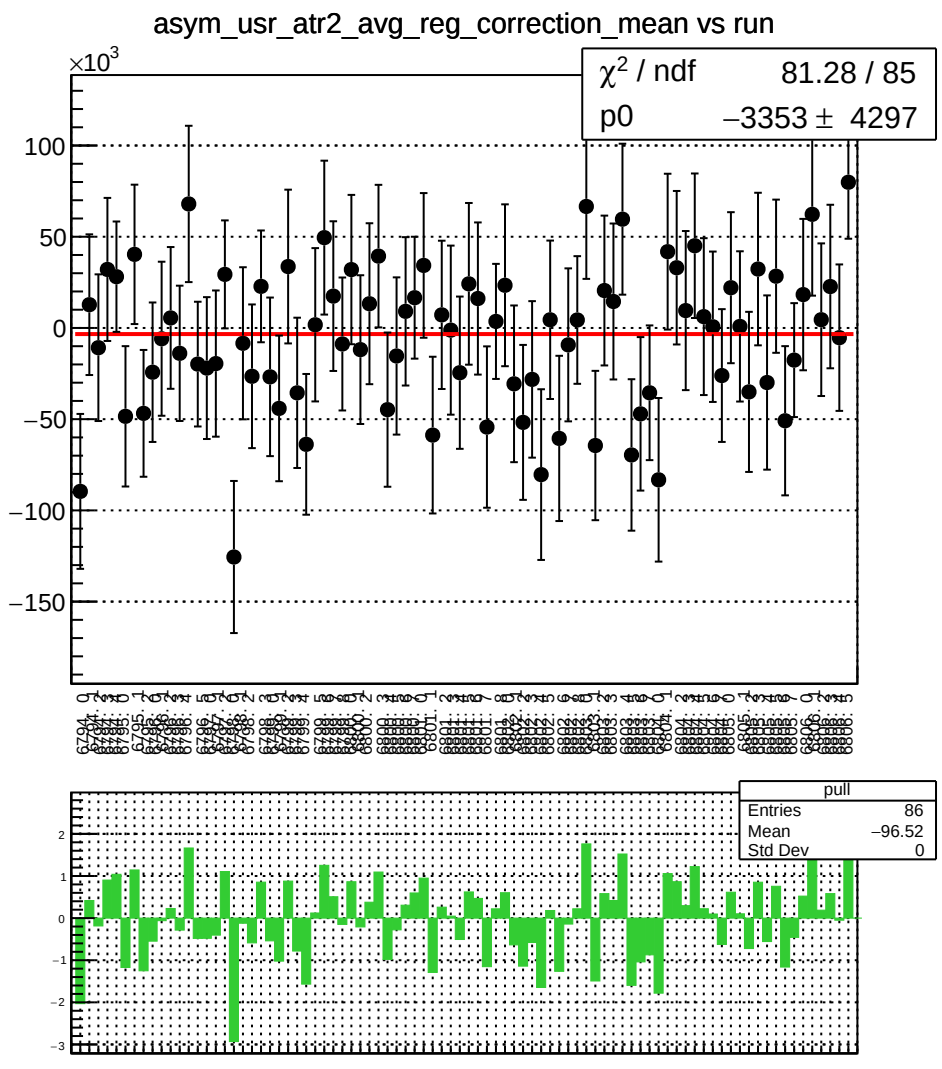

pull1D
Entries 86
Mean 0.07895
Std Dev 1.144

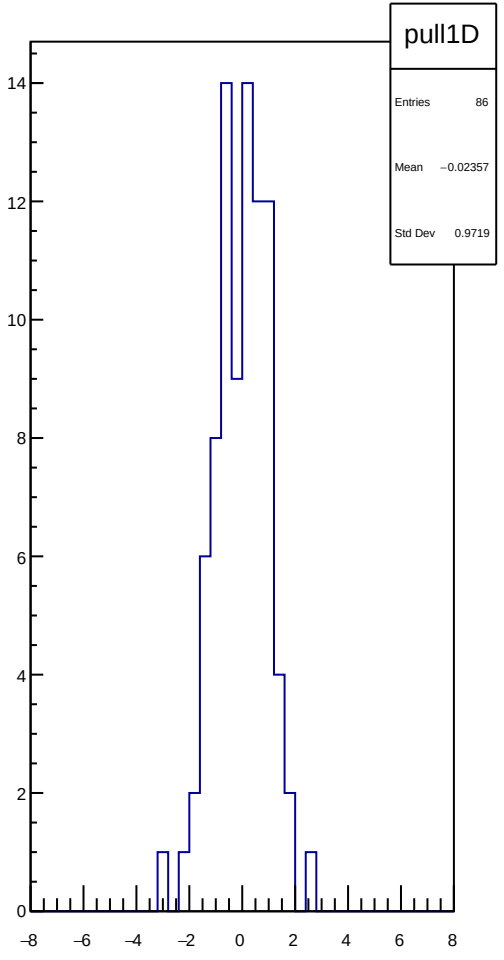

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.409e+05 / 85
p0 1.118e−11 ± 1.152e−14
90
80
70
60
50
40
30
20
10

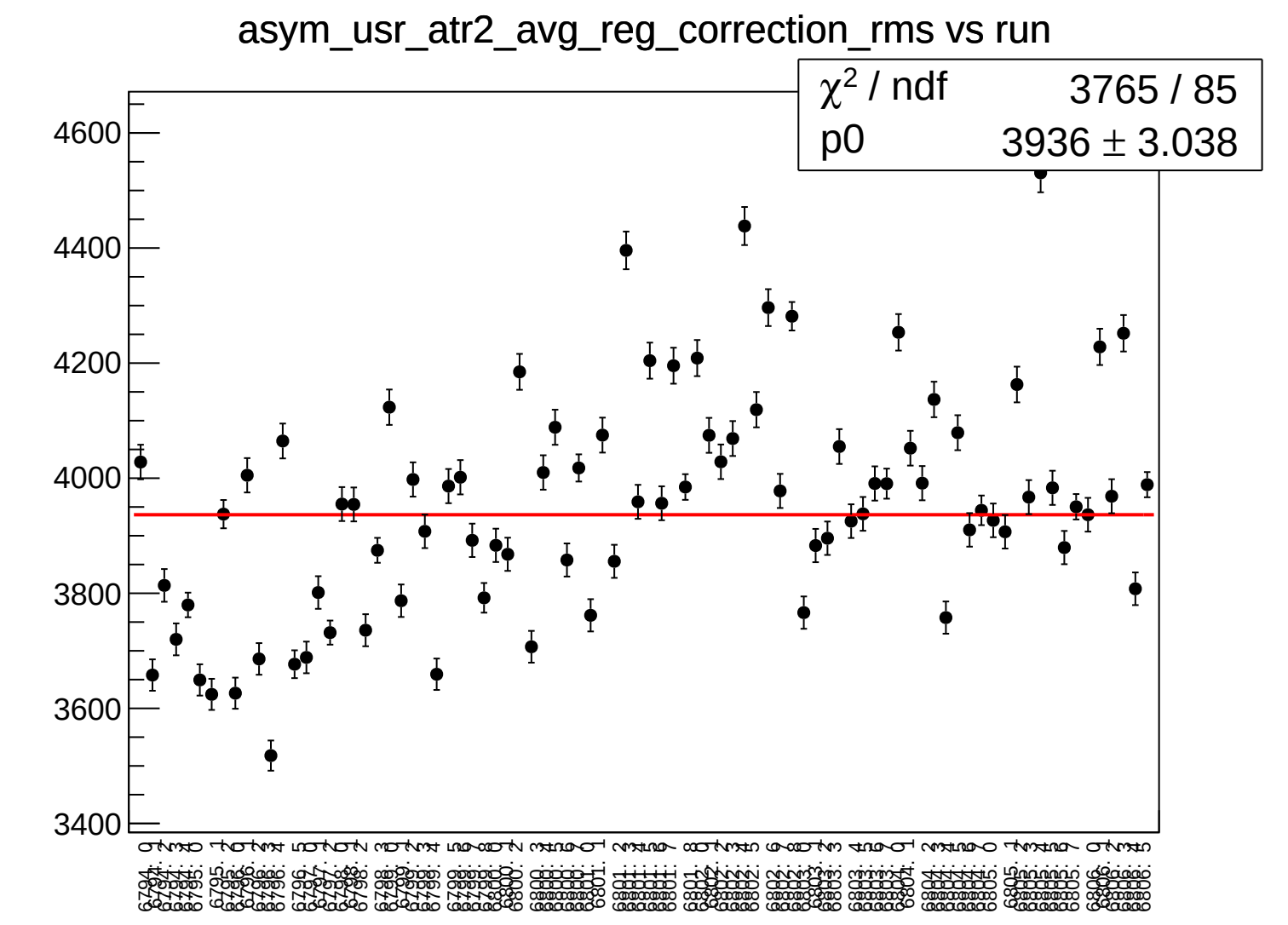

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.69 / 85
p0 −1452 ± 1633
pull
Entries 86
Mean 203
Std Dev 118.1

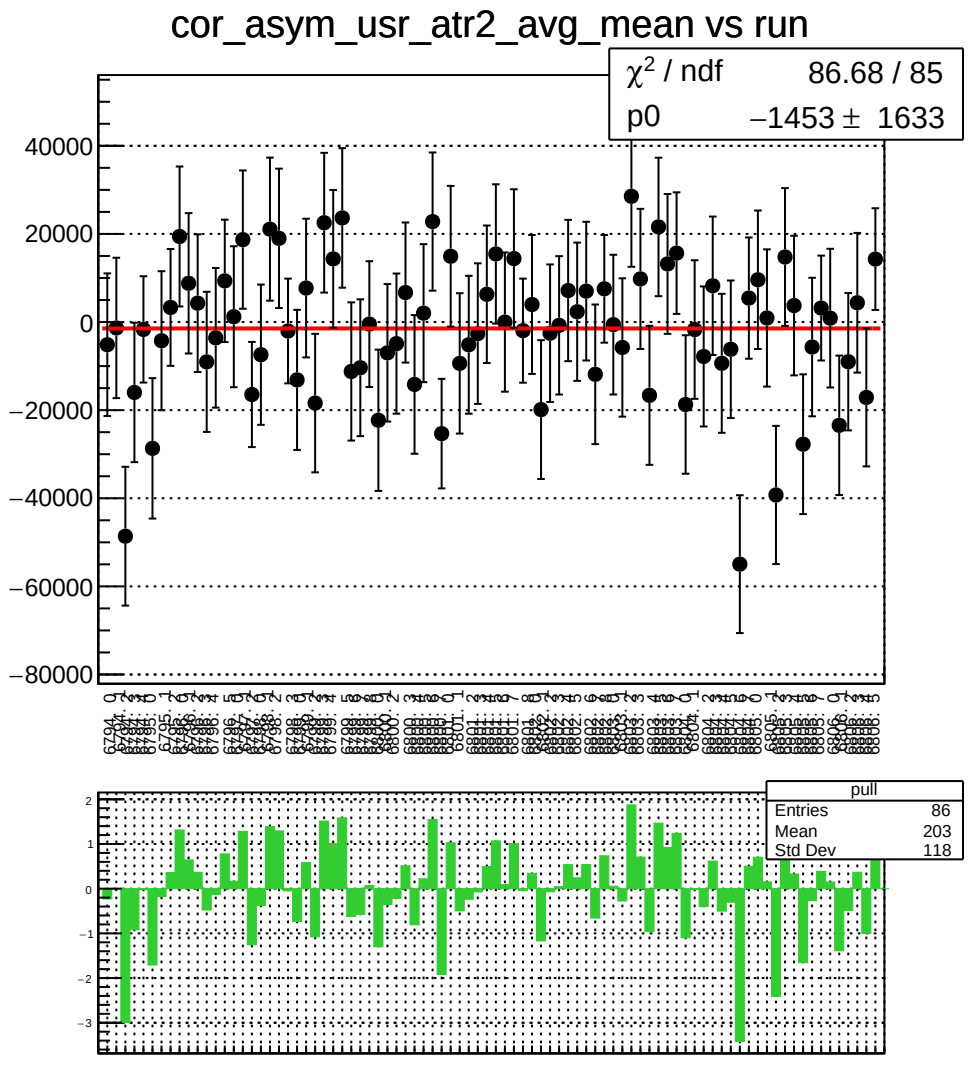

pull1D
Entries 86
Mean −0.002637
Std Dev 1.004

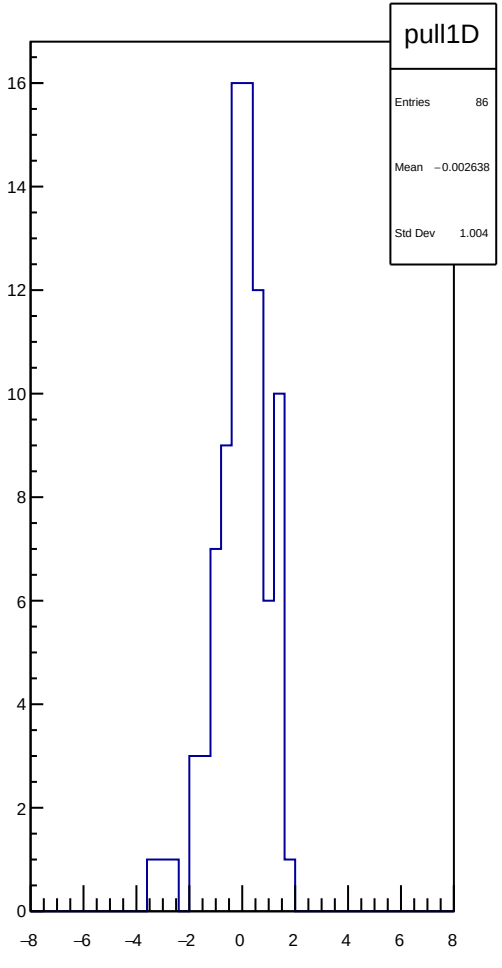

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 109.3 / 85
p0 1498 ± 1.155
1560
1540
1520
1500
1480
1460

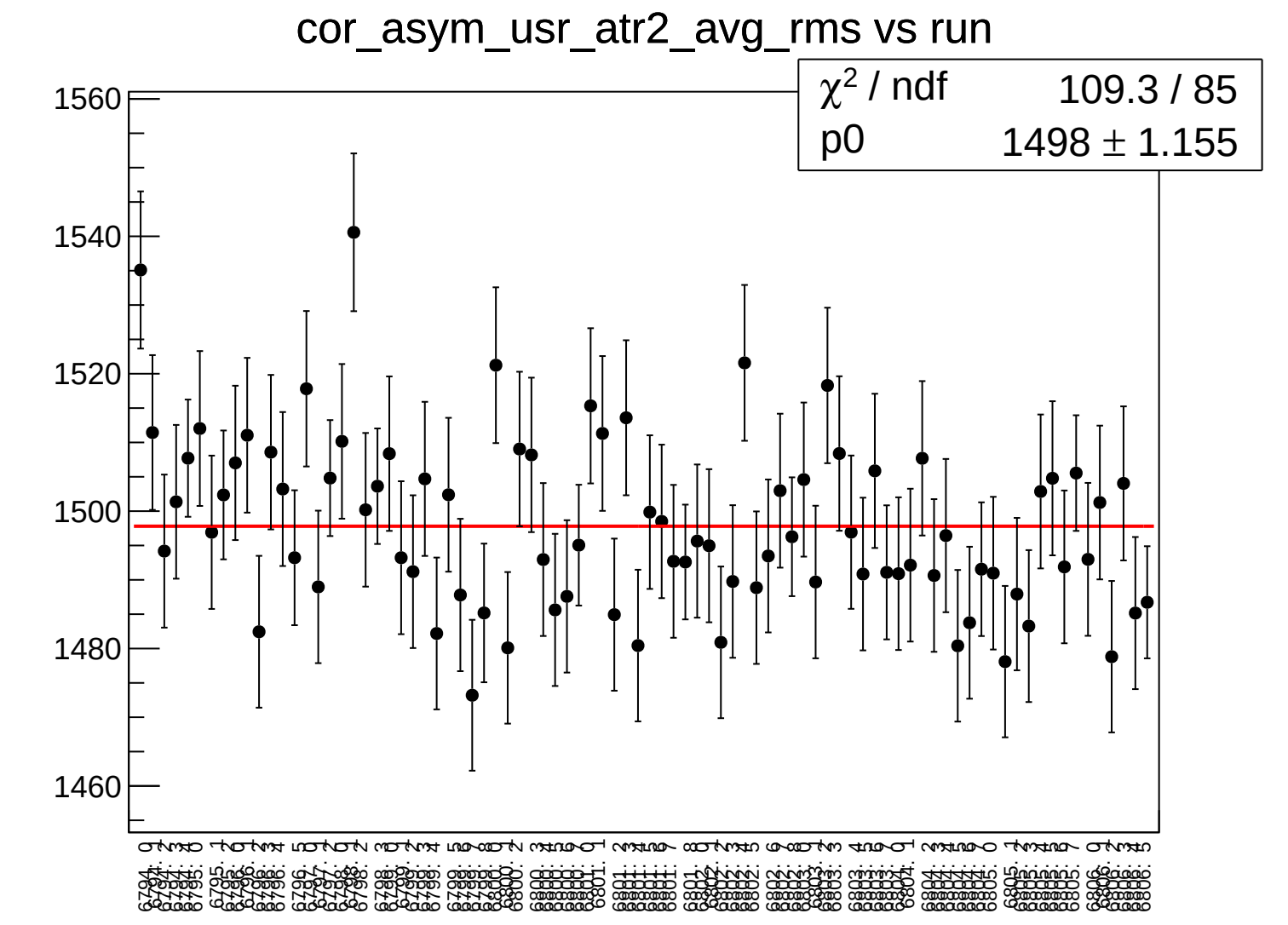

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 81.28 / 85
p0 −3353 ± 4297
100
50
0
−50
−100
−150
pull
Entries 86
Mean −96.52
Std Dev 0
2
1
0
−1
−2
−3

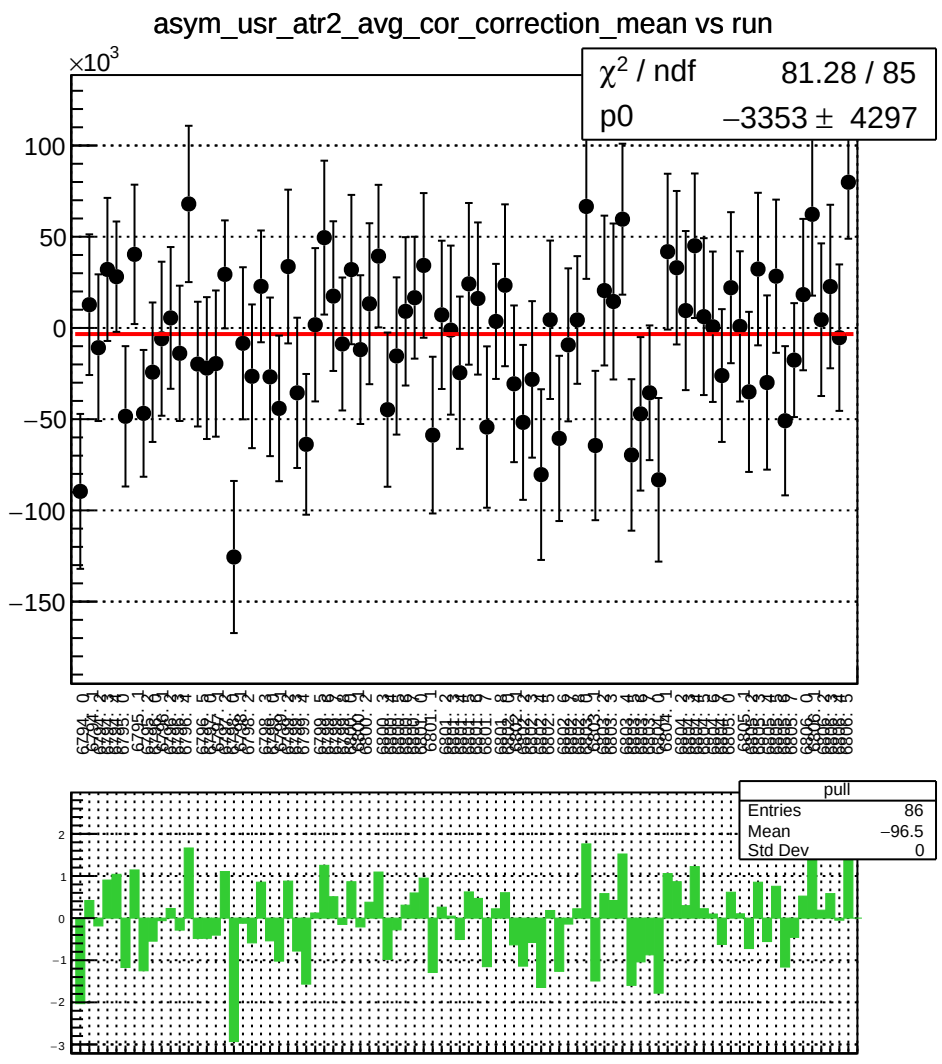

pull1D
Entries 86
Mean −0.02357
Std Dev 0.9719
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

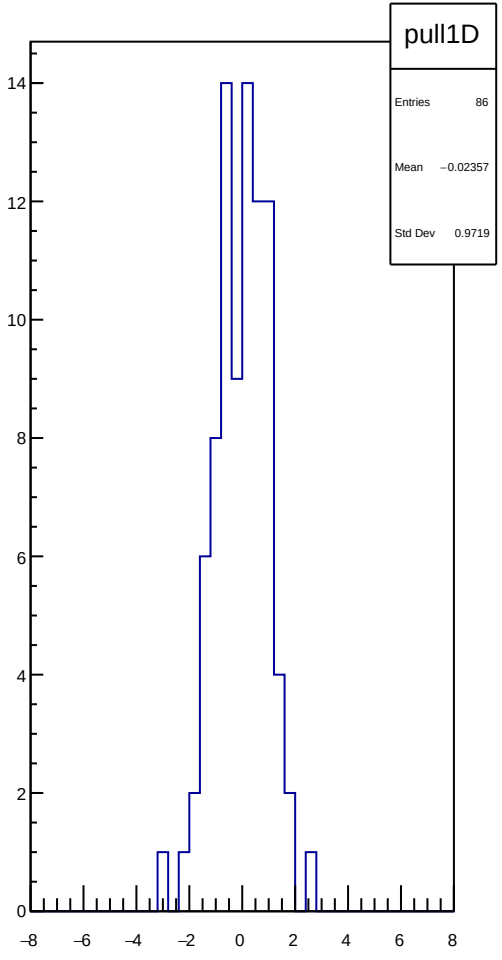

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 3765 / 85
p0 3936 ± 3.038
4600
4400
4200
4000
3800
3600
3400

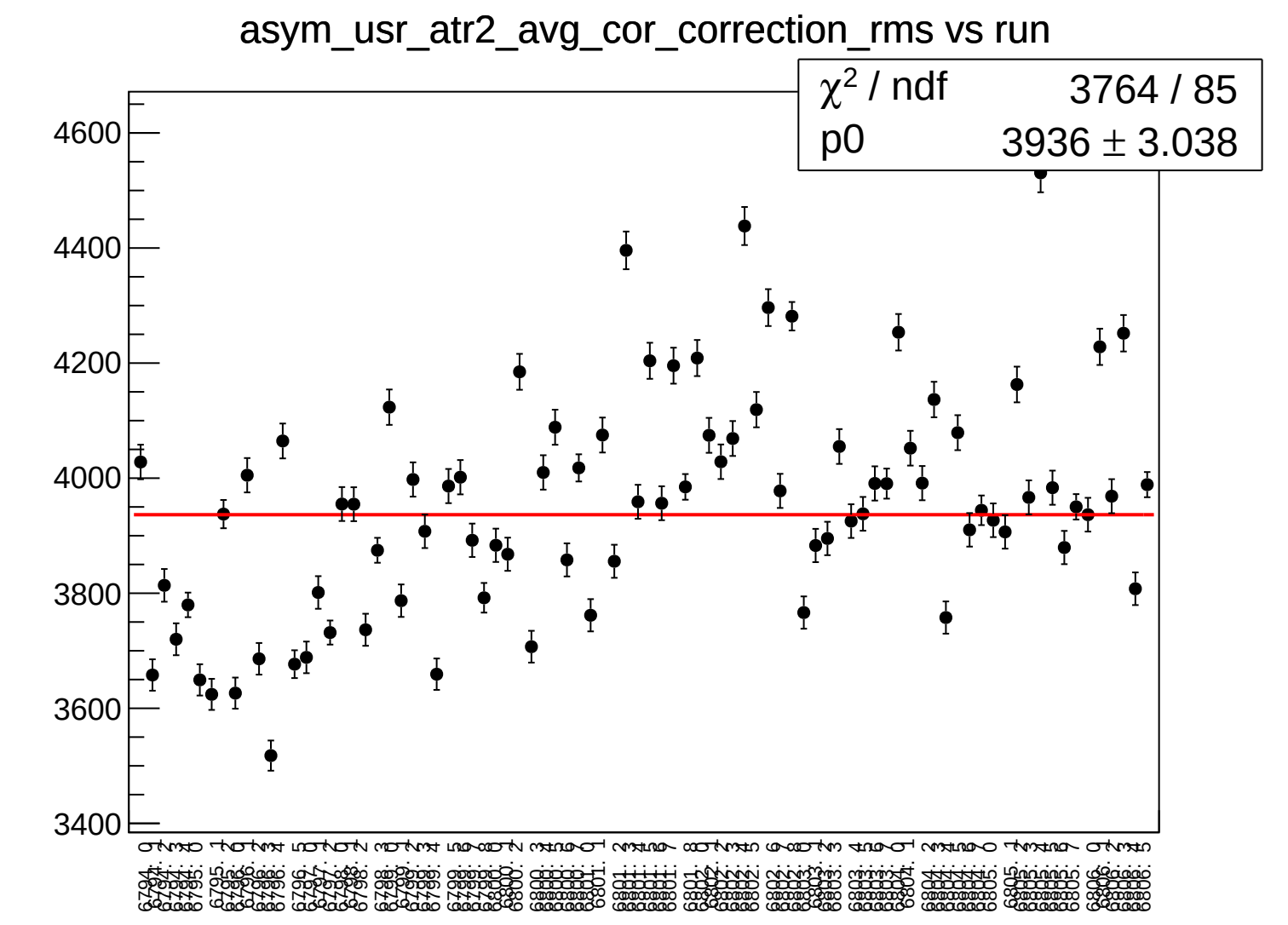

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.68 / 85
p0 −1453 ± 1633
pull
Entries 86
Mean 203
Std Dev 118

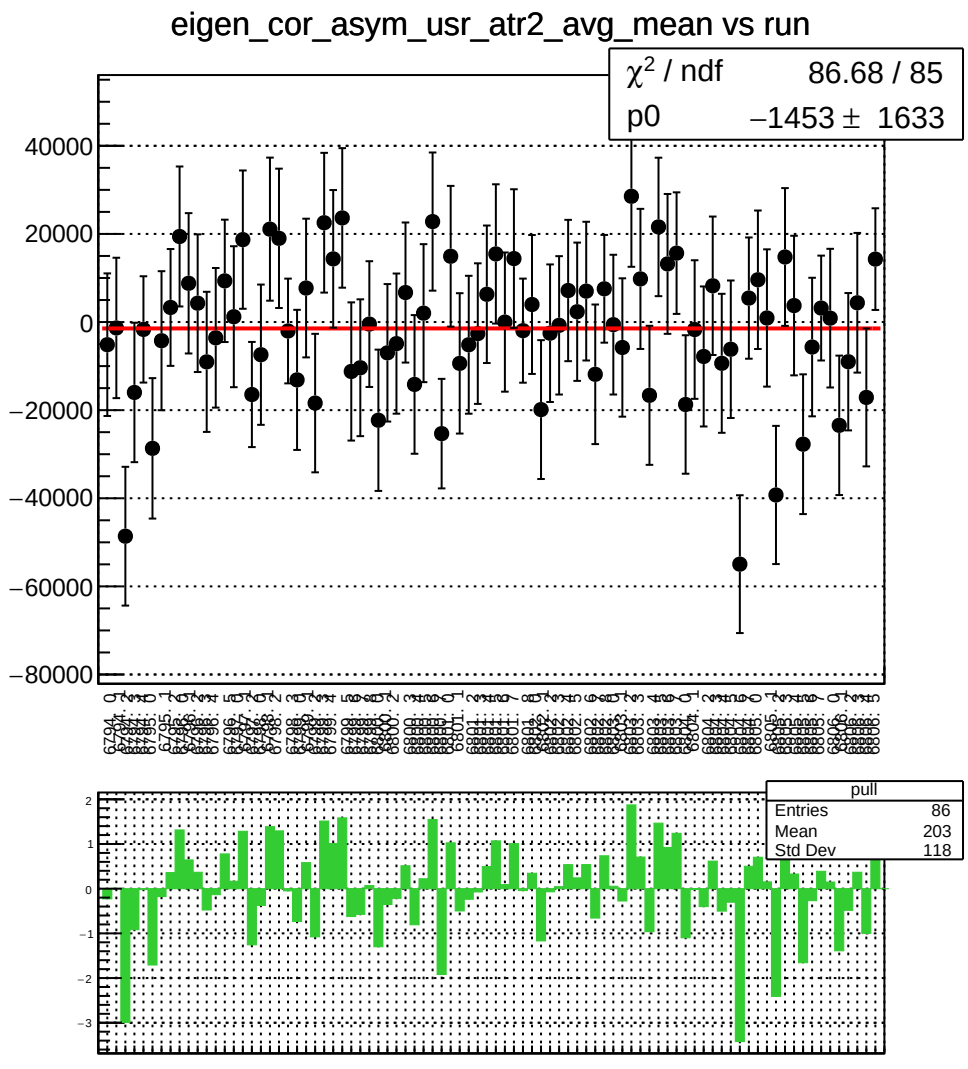

pull1D
Entries 86
Mean −0.002638
Std Dev 1.004

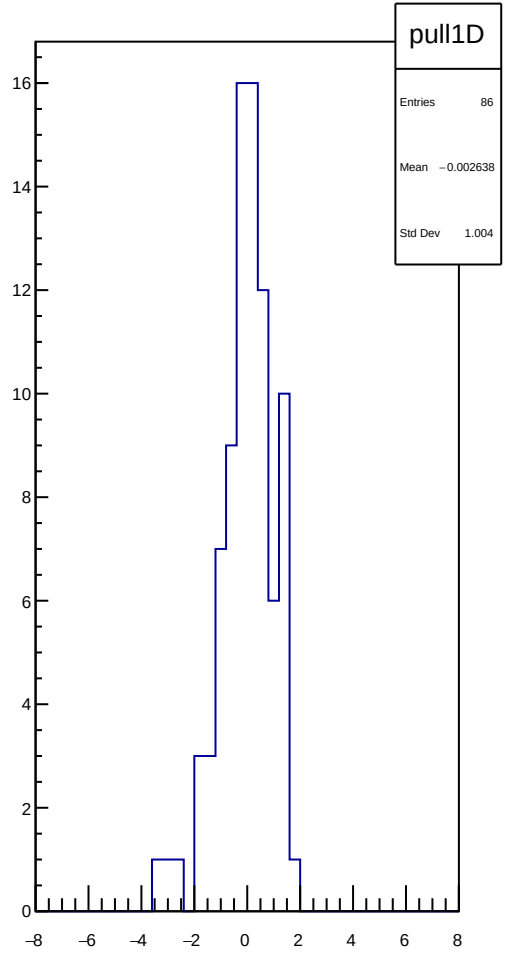

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 109.3 / 85
p0 1498 ± 1.155
1560
1540
1520
1500
1480
1460


asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 81.28 / 85
p0 −3353 ± 4297
100
50
0
−50
−100
−150
pull
Entries 86
Mean −96.5
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.02357
Std Dev 0.9719
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 3764 / 85
p0 3936 ± 3.038
4600
4400
4200
4000
3800
3600
3400


eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 86.68 / 85
p0 −1453 ± 1633
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 203
Std Dev 118
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.002638
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
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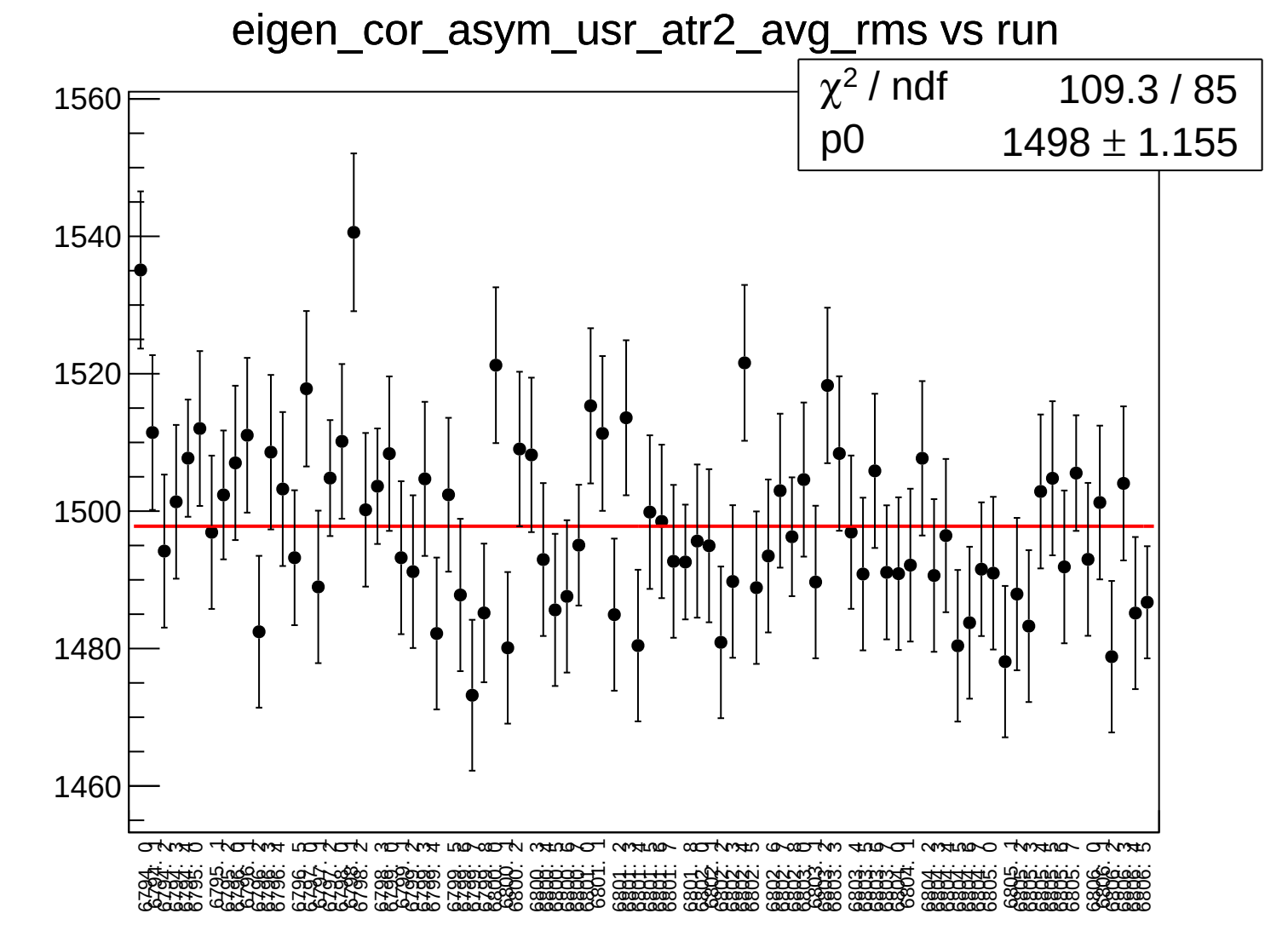
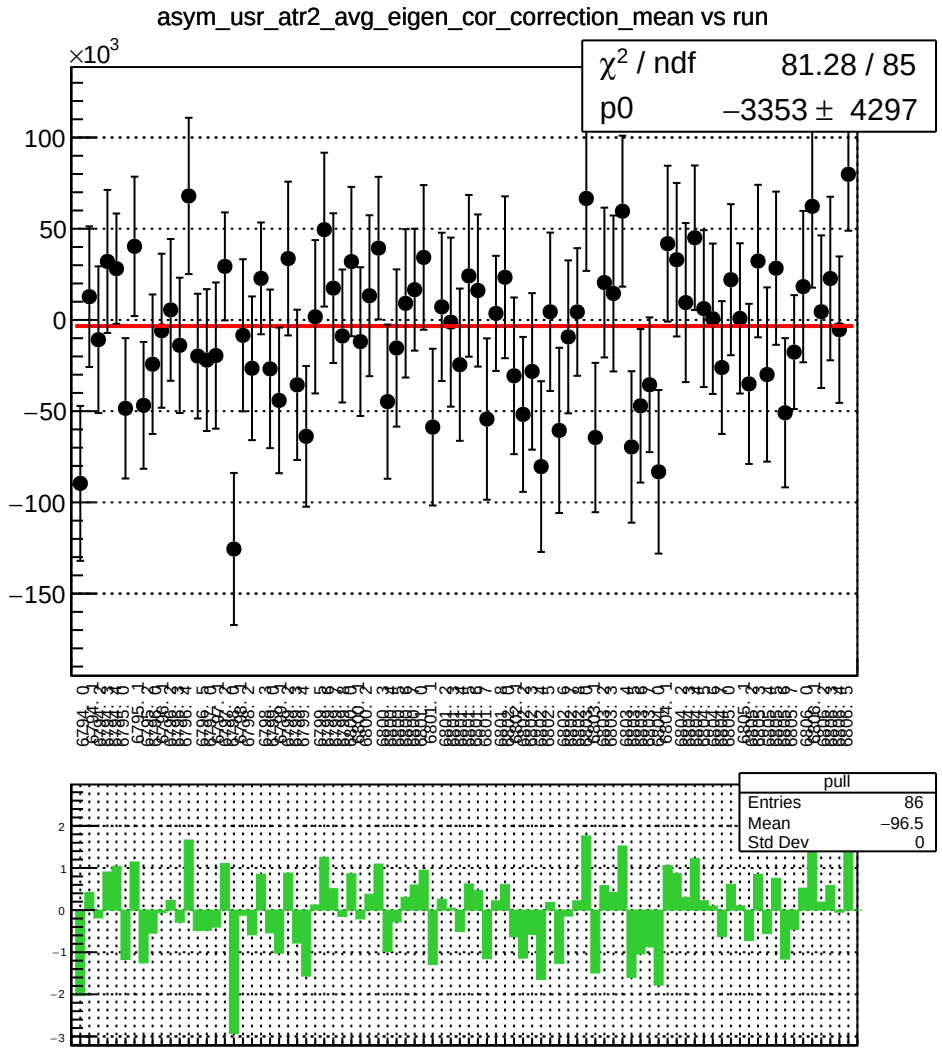
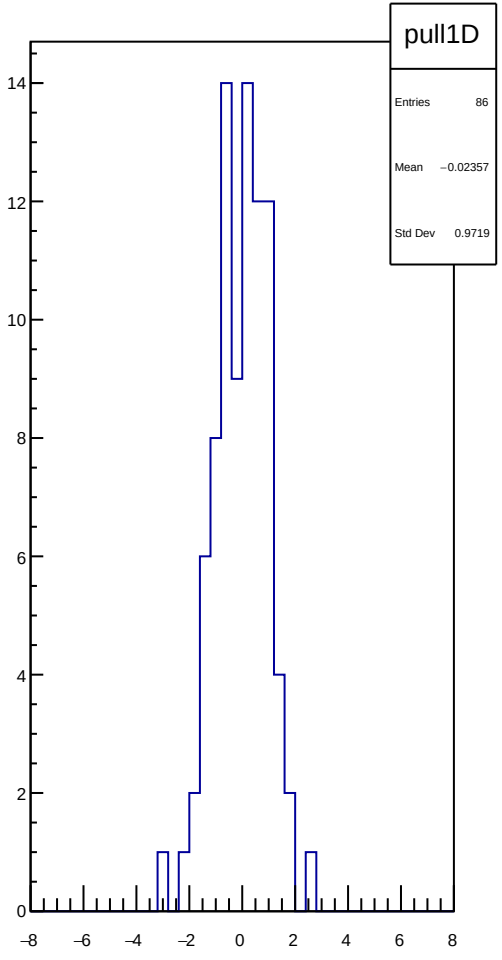
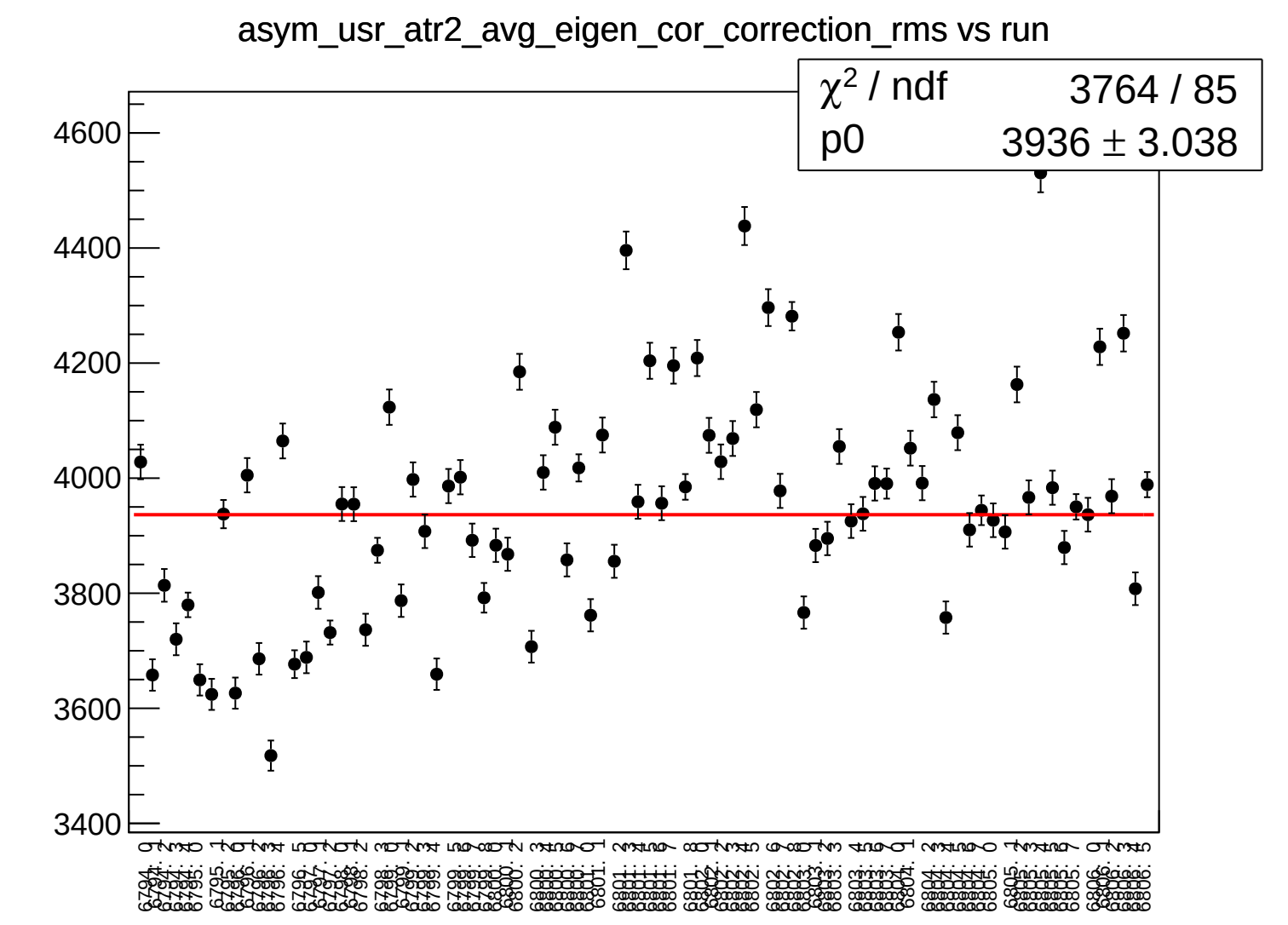
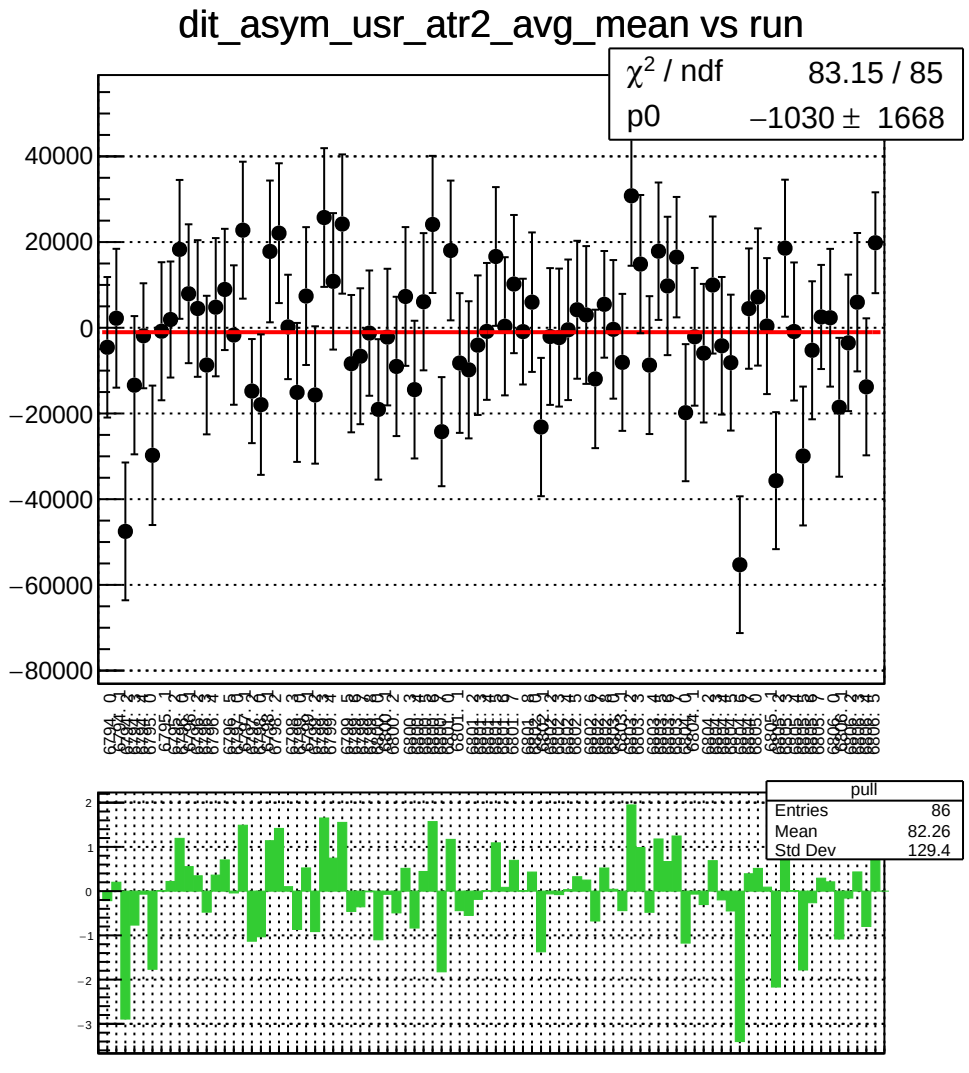
2
4
6
8

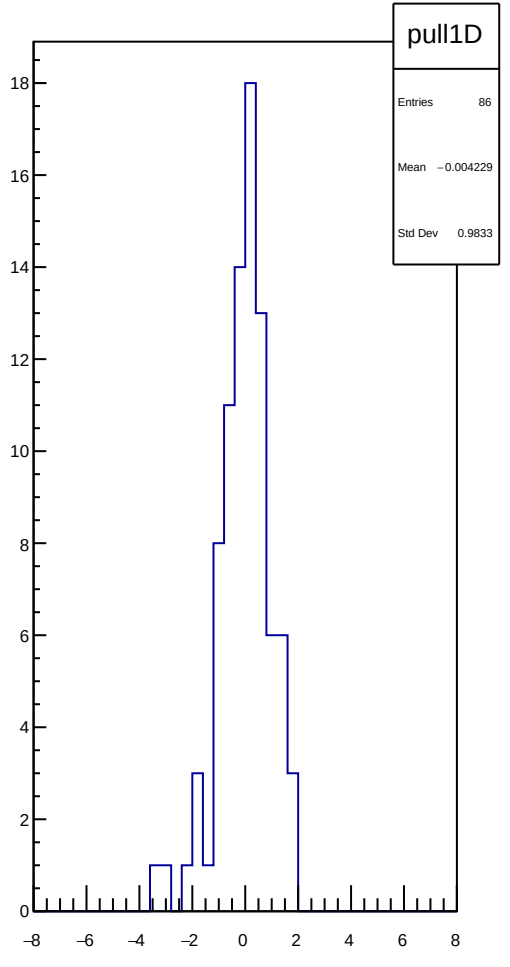

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 109.3 / 85
p0 1498 ± 1.155
1560
1540
1520
1500
1480
1460

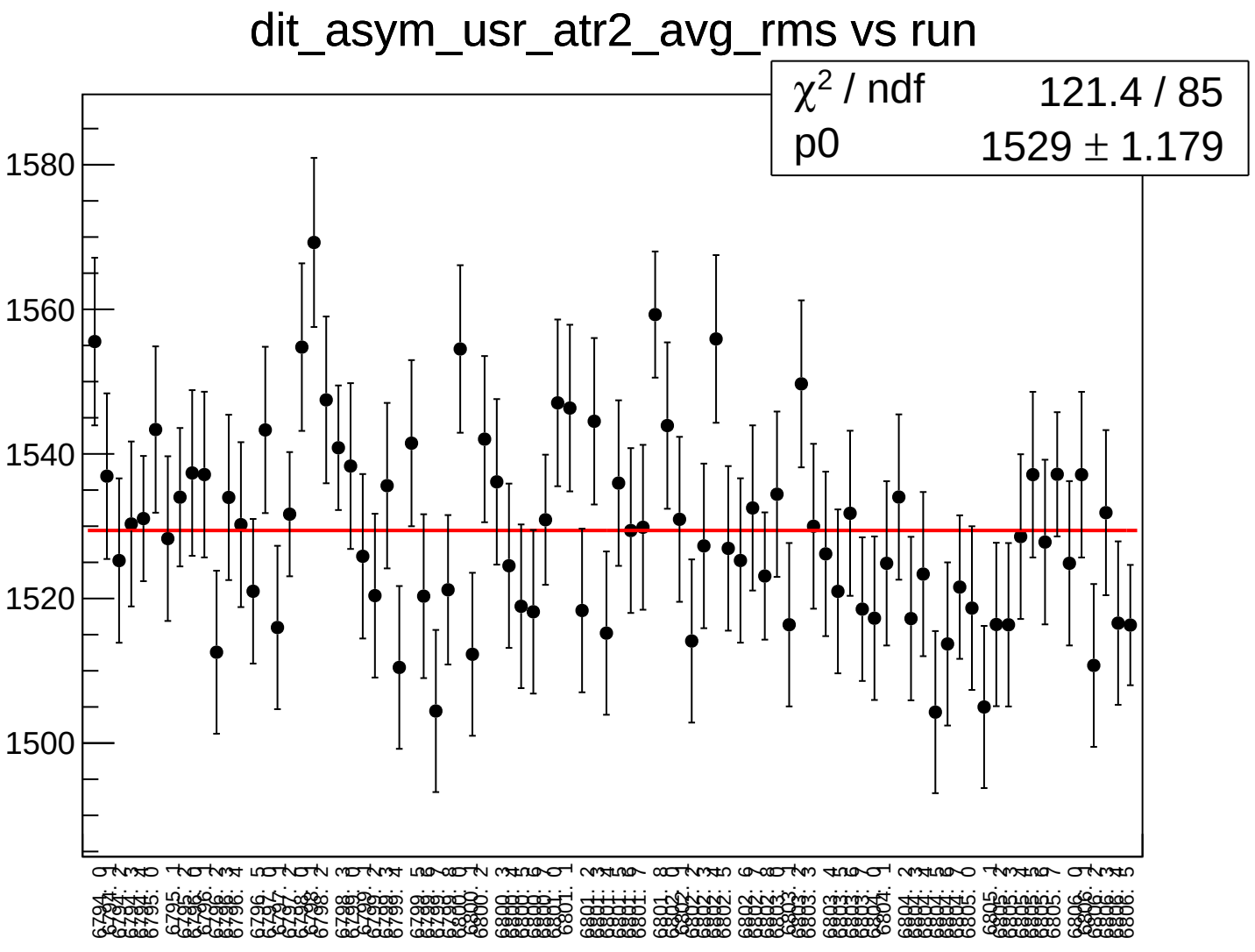

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 81.28 / 85
p0 −3353 ± 4297
100
50
0
−50
−100
−150
pull
Entries 86
Mean −96.5
Std Dev 0
2
1
0
−1
−2
−3

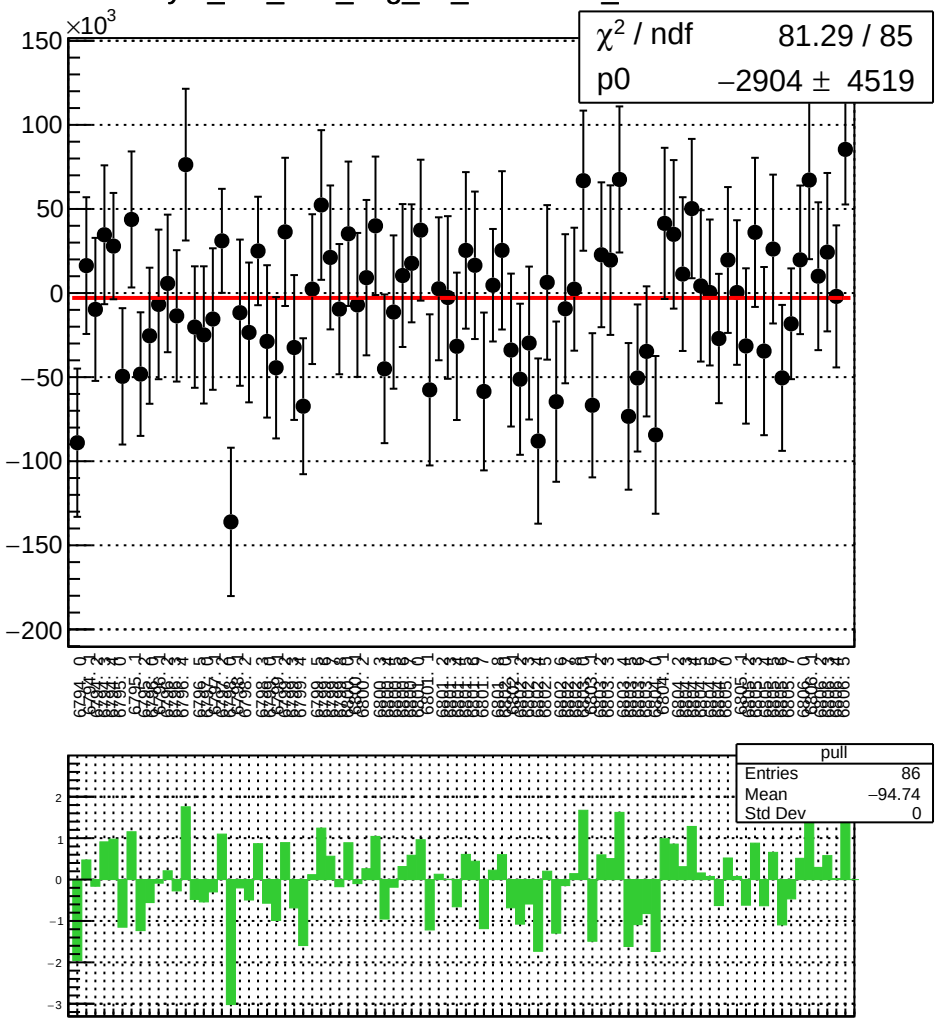

pull1D
Entries 86
Mean −0.02357
Std Dev 0.9719
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

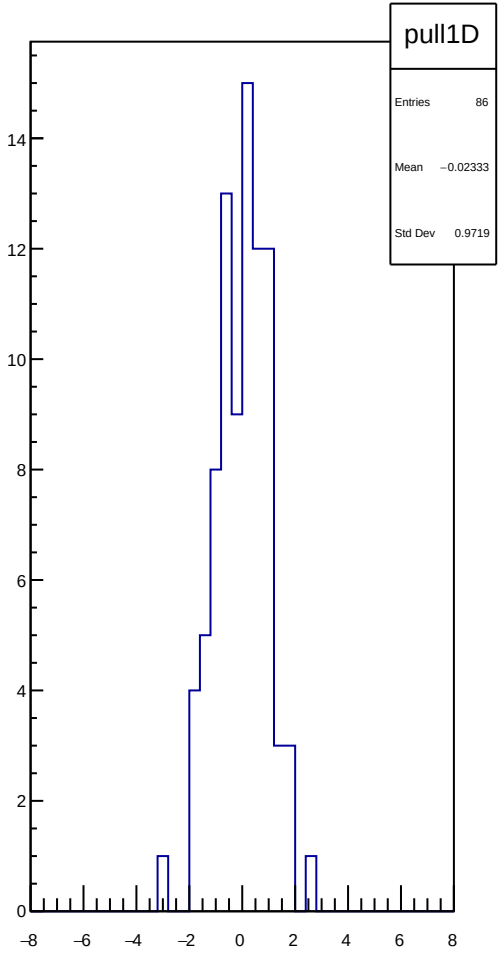

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3764 / 85
p0 3936 ± 3.038
4600
4400
4200
4000
3800
3600
3400

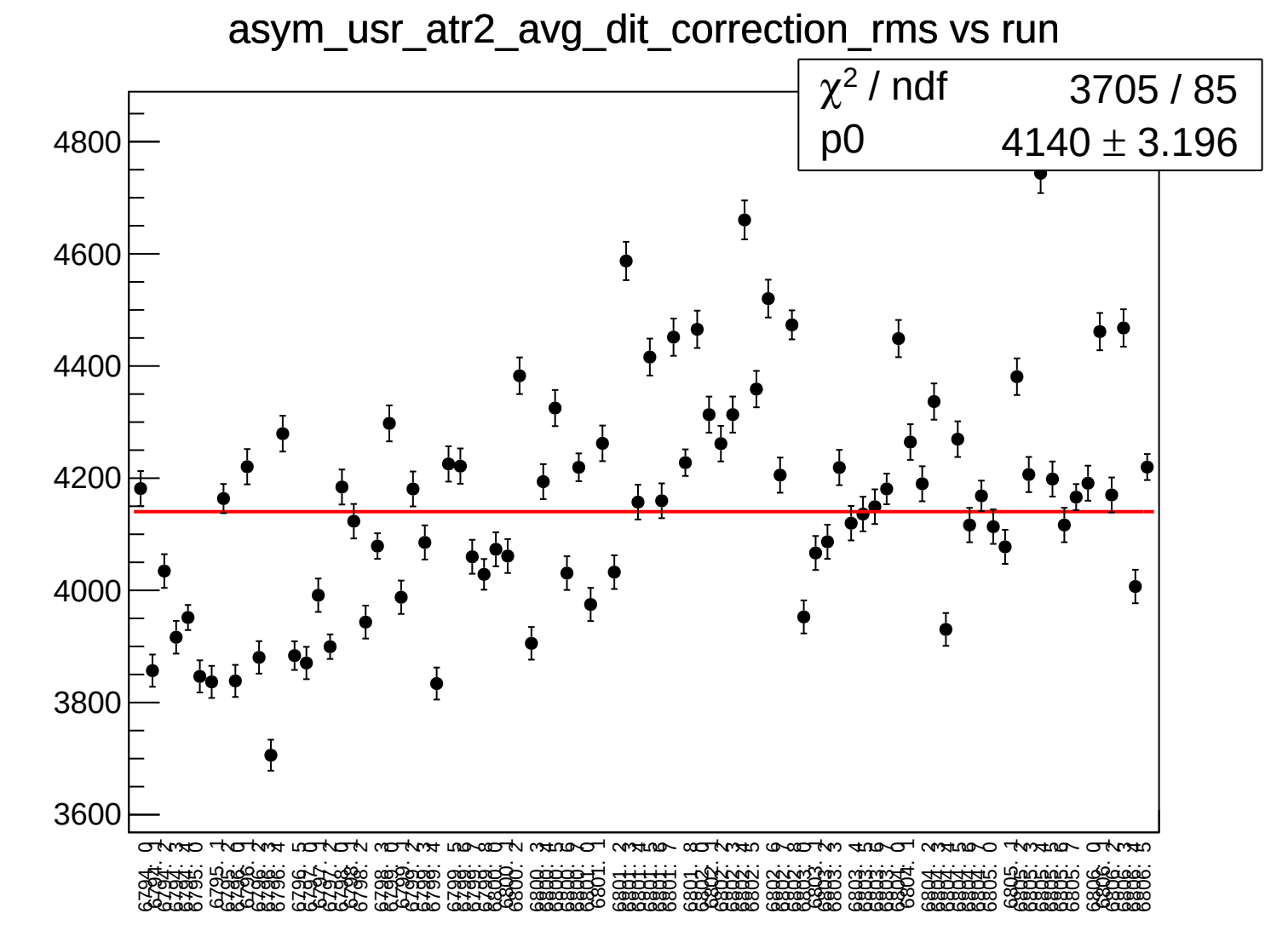

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.15 / 85
p0 −1030 ± 1668
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 82.26
Std Dev 129.4
2
1
0
−1
−2
−3

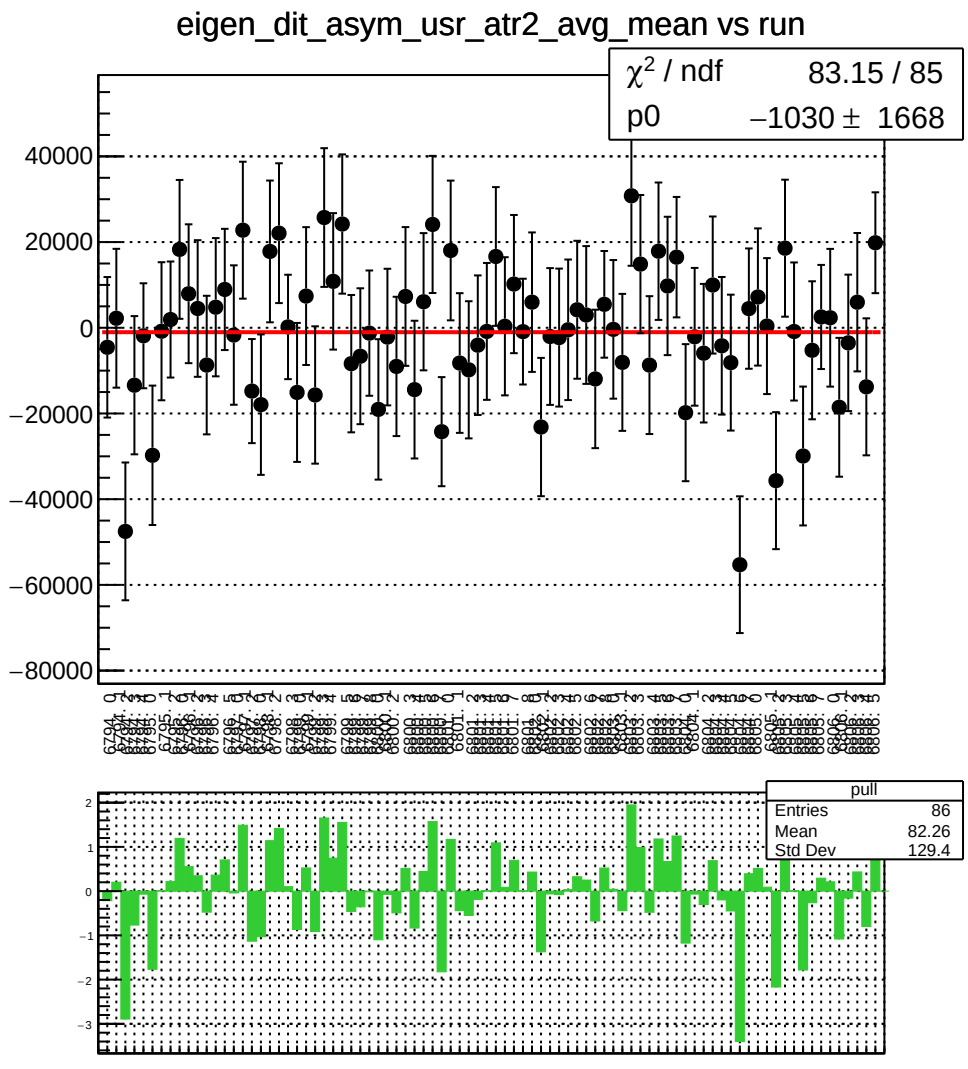

pull1D
Entries 86
Mean −0.004229
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

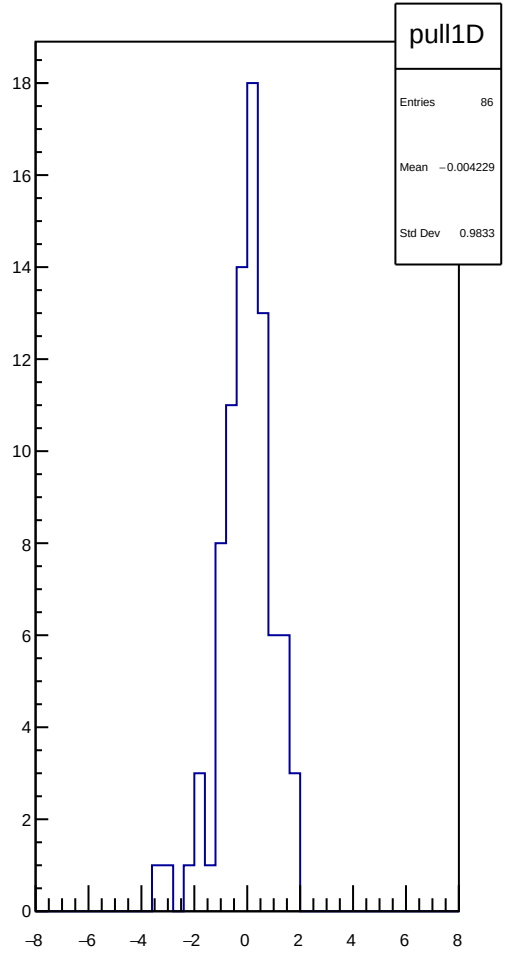

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 121.4 / 85
p0 1529 ± 1.179
1580
1560
1540
1520
1500

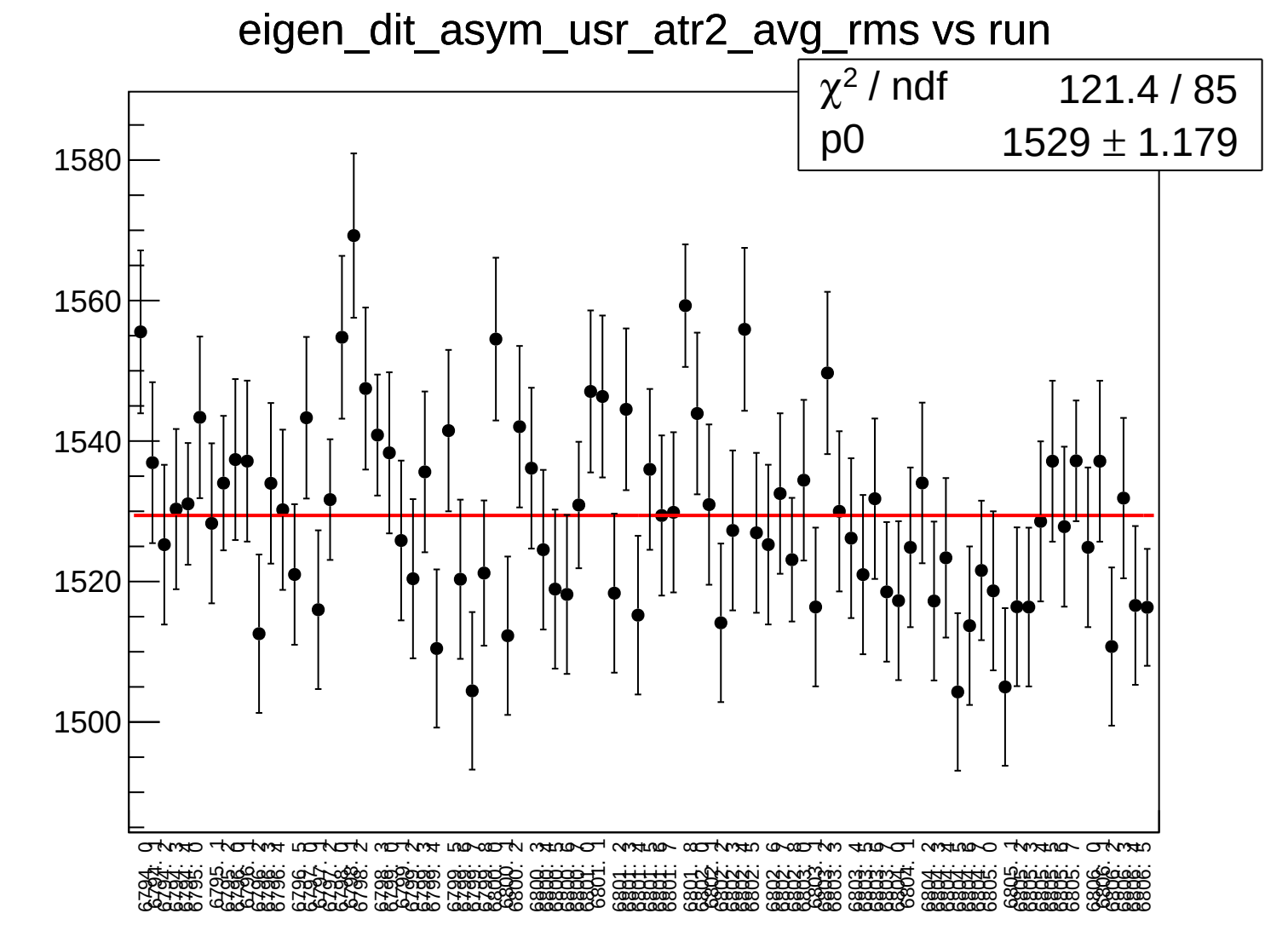

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 81.29 / 85
p0 −2904 ± 4519
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −94.74
Std Dev 0
2
1
0
−1
−2
−3

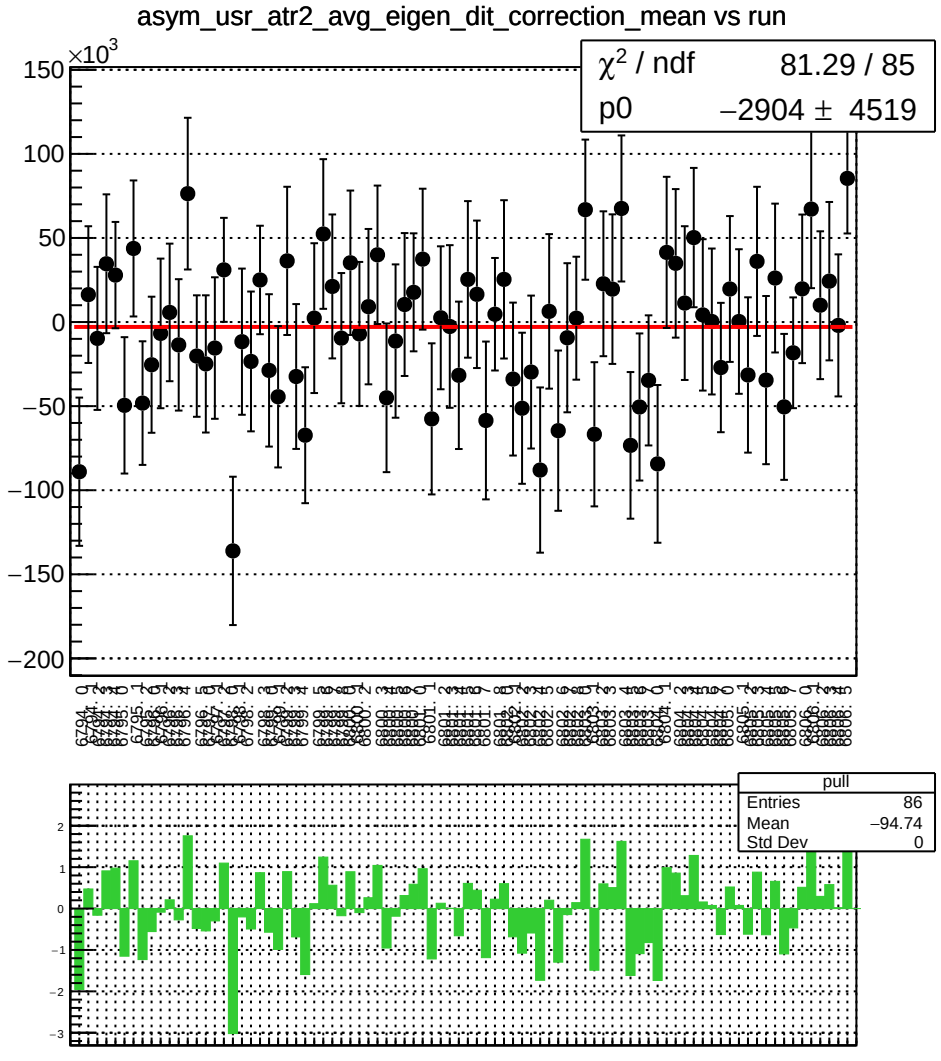

pull1D
Entries 86
Mean −0.02333
Std Dev 0.9719
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

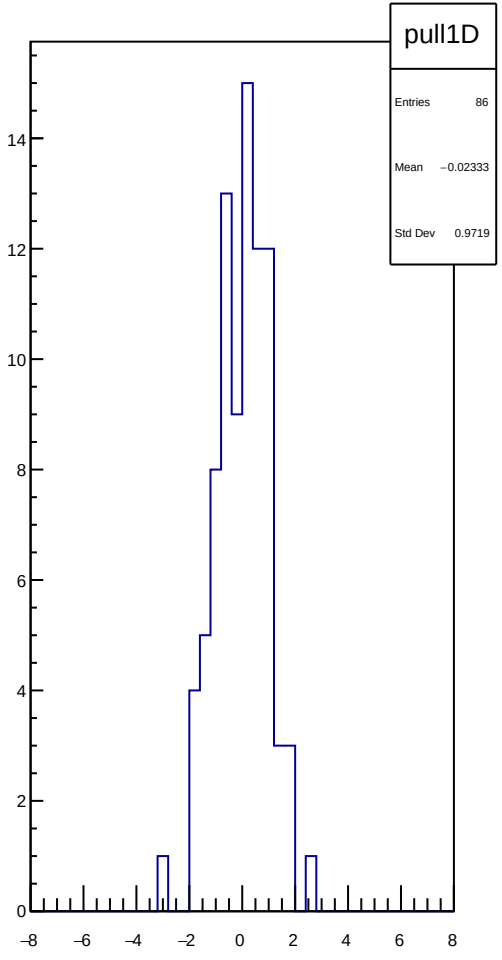

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 3705 / 85
p0 4140 ± 3.196
4800
4600
4400
4200
4000
3800
3600

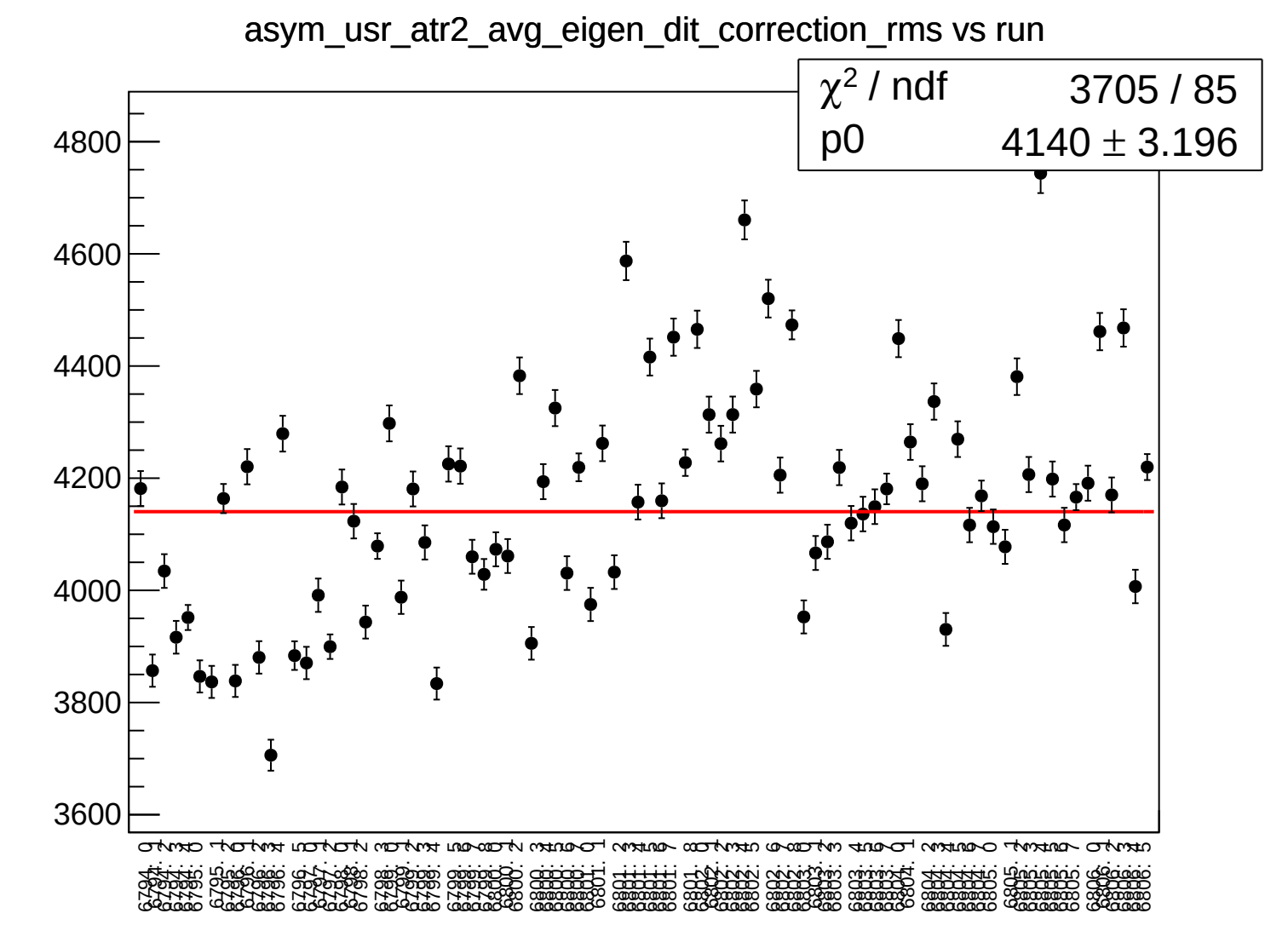

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 83.15 / 85
p0 −1030 ± 1668
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 82.26
Std Dev 129.4
2
1
0
−1
−2
−3

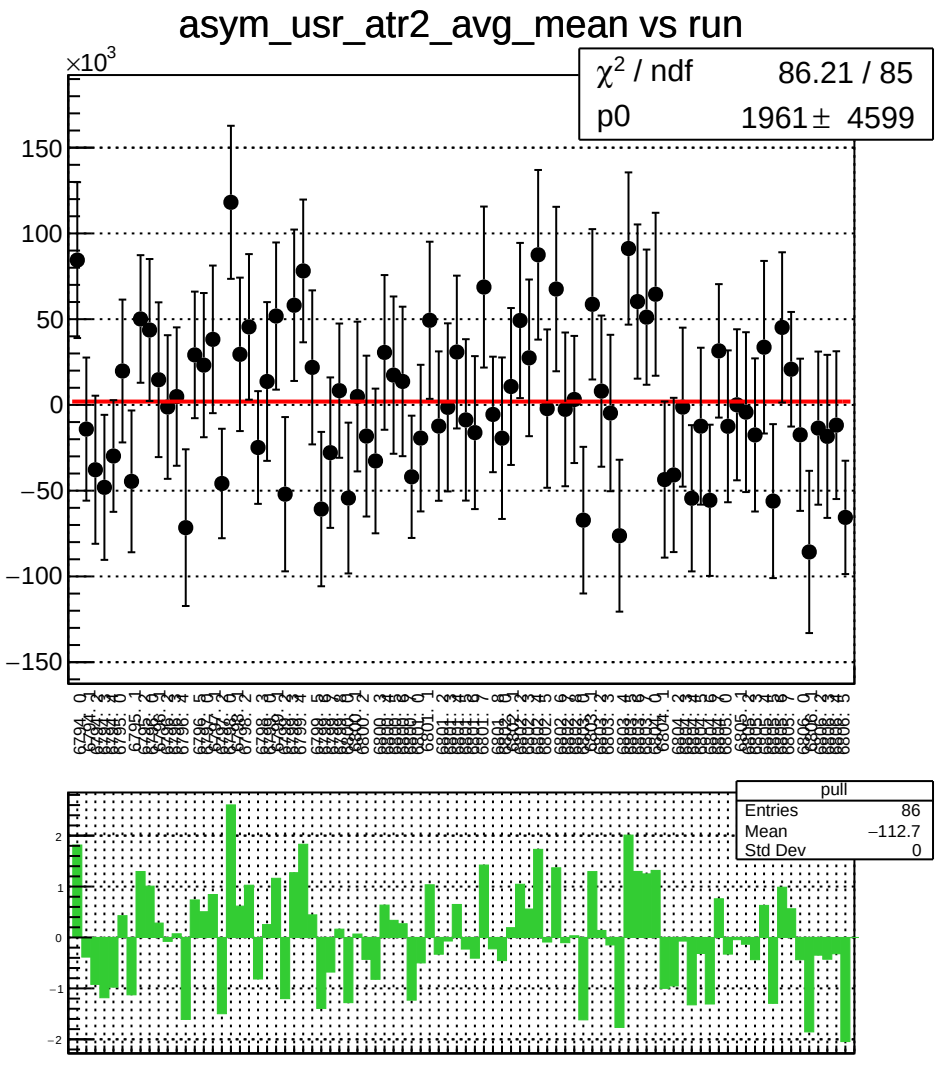

pull1D
Entries 86
Mean −0.004229
Std Dev 0.9833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

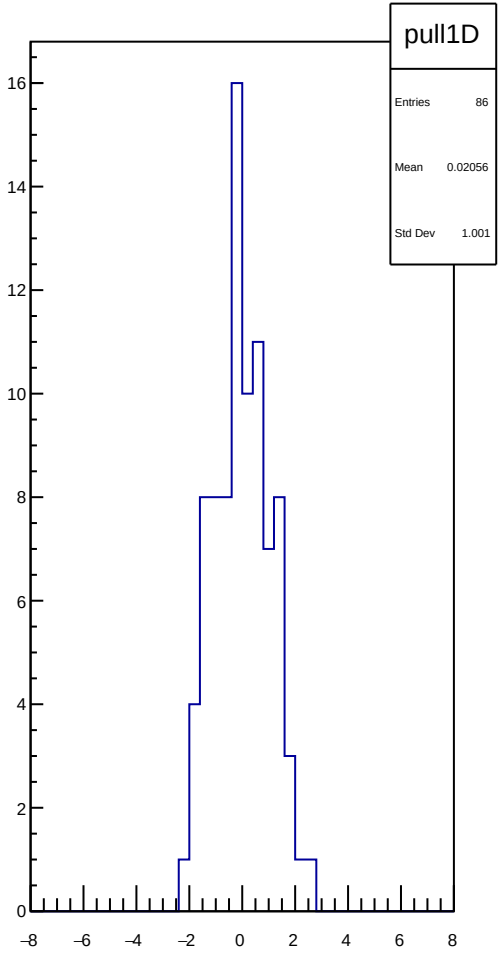

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 121.4 / 85
p0 1529 ± 1.179
1580
1560
1540
1520
1500

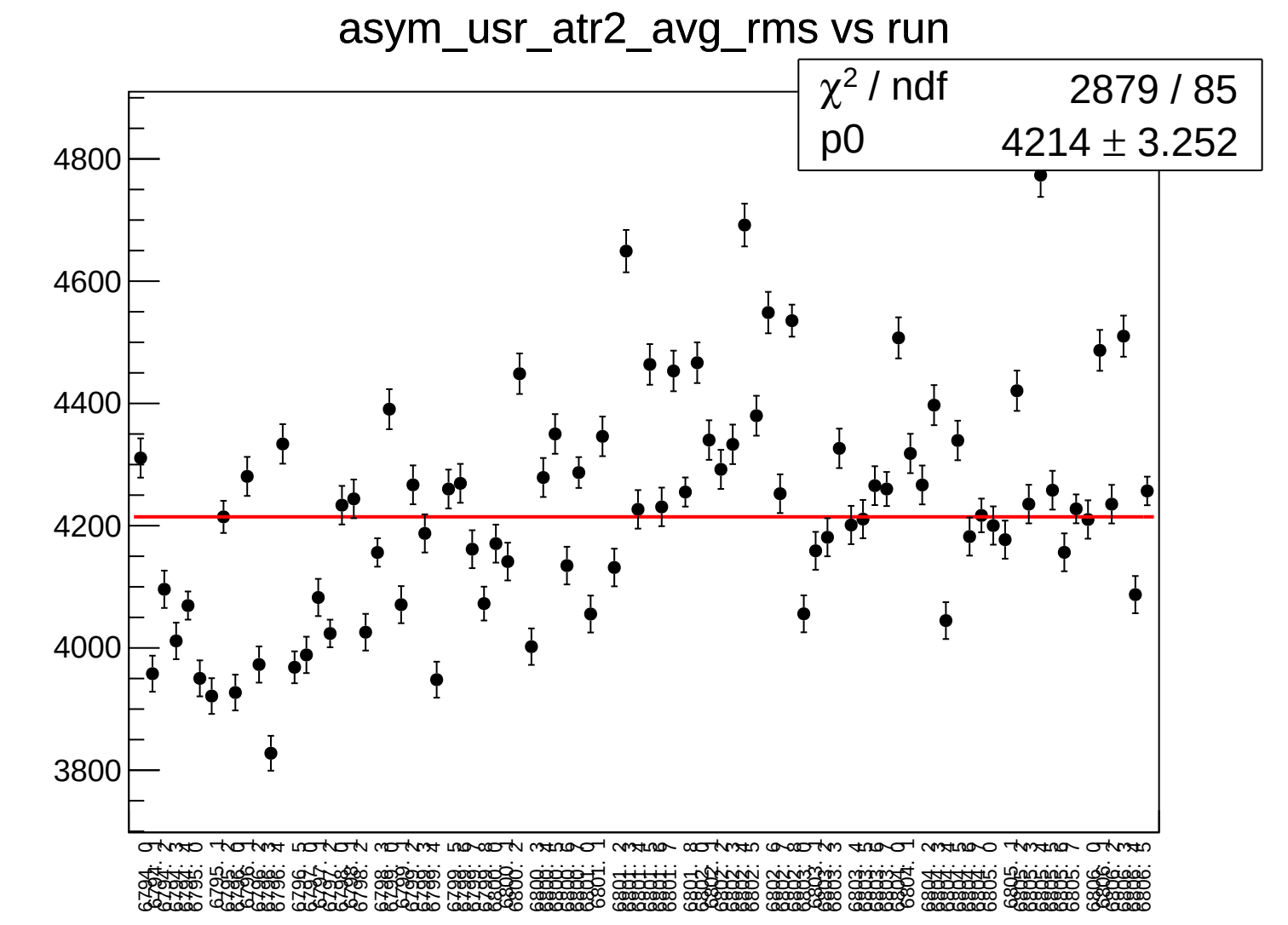

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 81.29 / 85
p0 −2904 ± 4519
pull
Entries 86
Mean −94.74
Std Dev 0

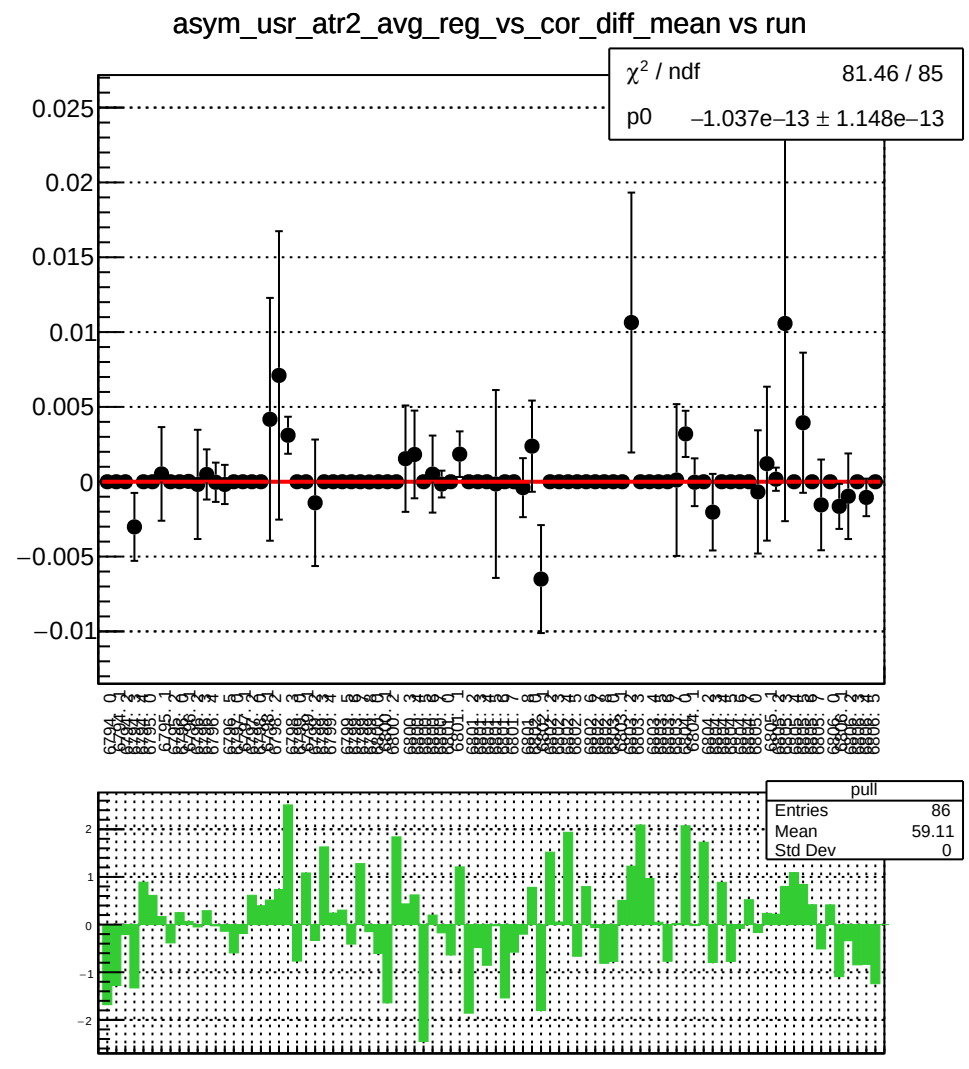

pull1D
Entries 86
Mean −0.02333
Std Dev 0.9719

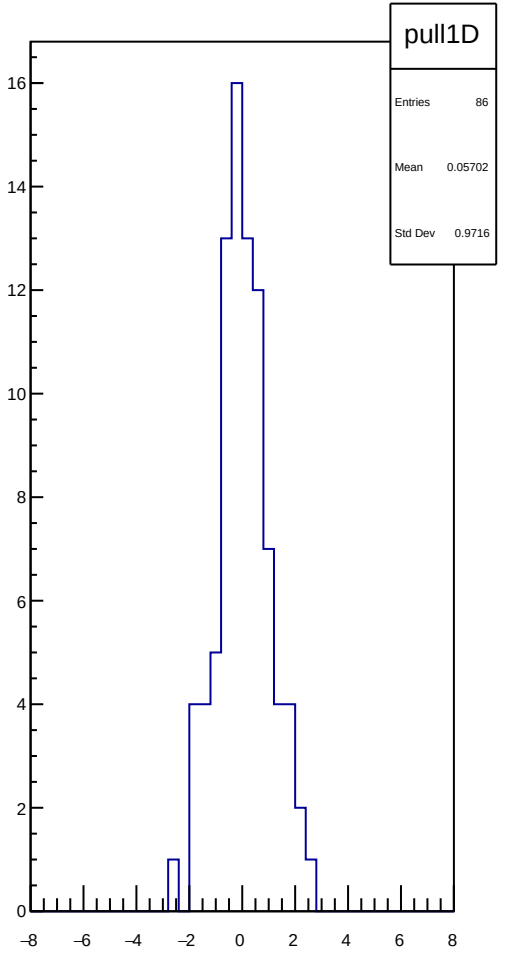

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 3705 / 85
p0 4140 ± 3.196
4800
4600
4400
4200
4000
3800
3600

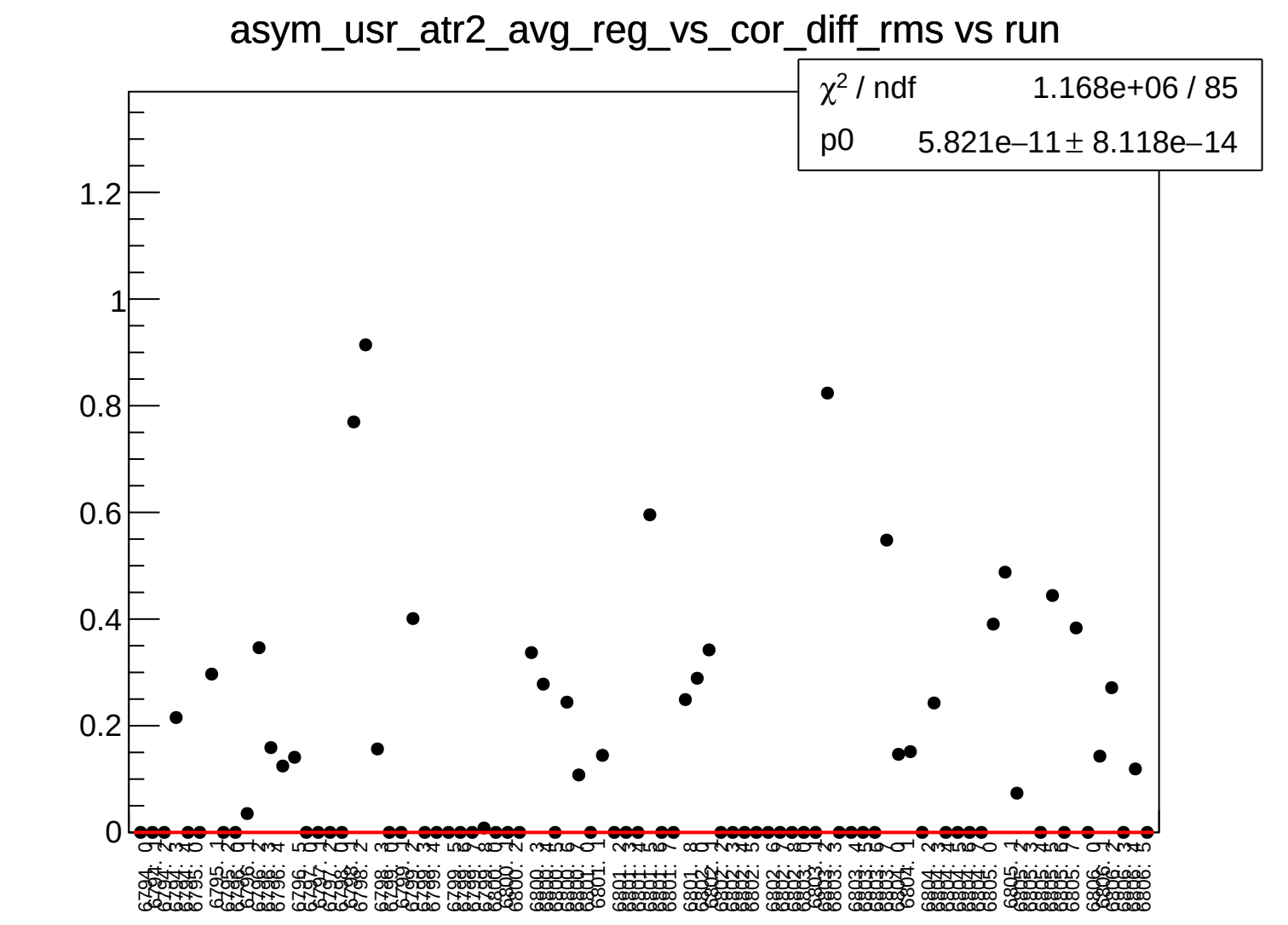

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 86.21 / 85
p0 1961 ± 4599
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −112.7
Std Dev 0
2
1
0
−1
−2

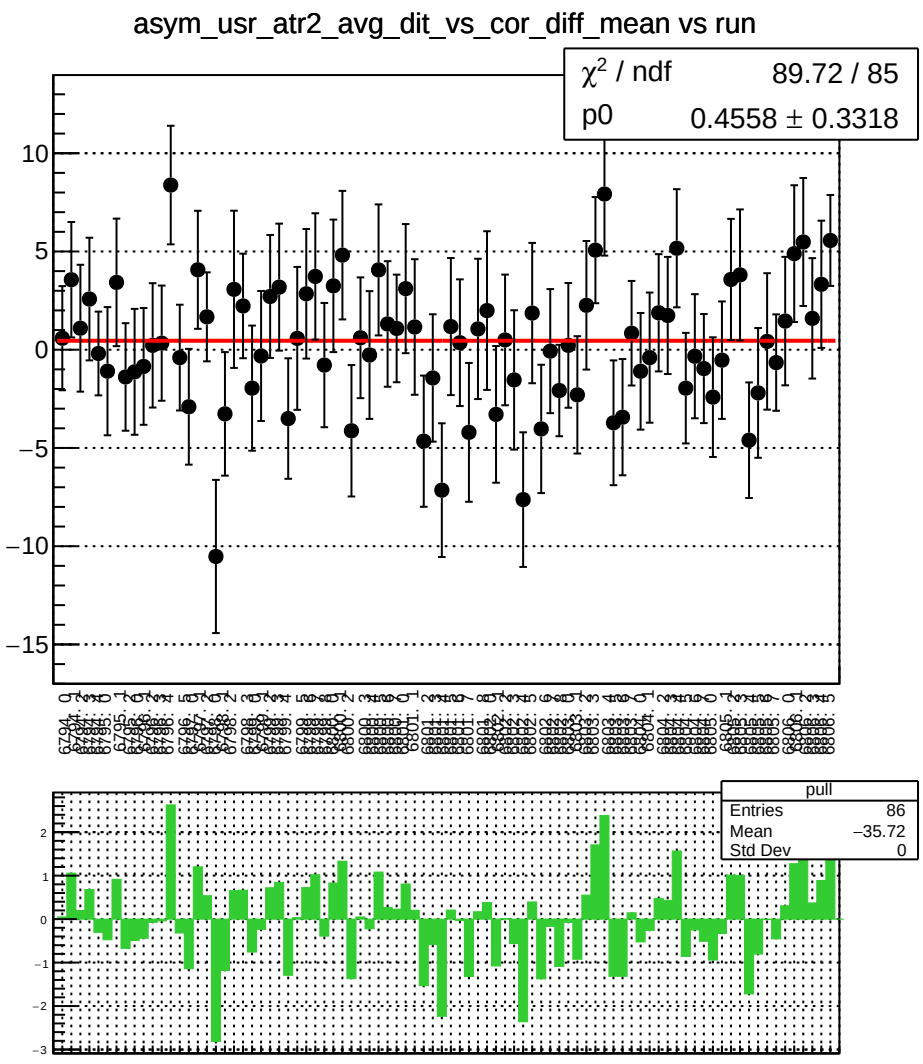

pull1D
Entries 86
Mean 0.02056
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

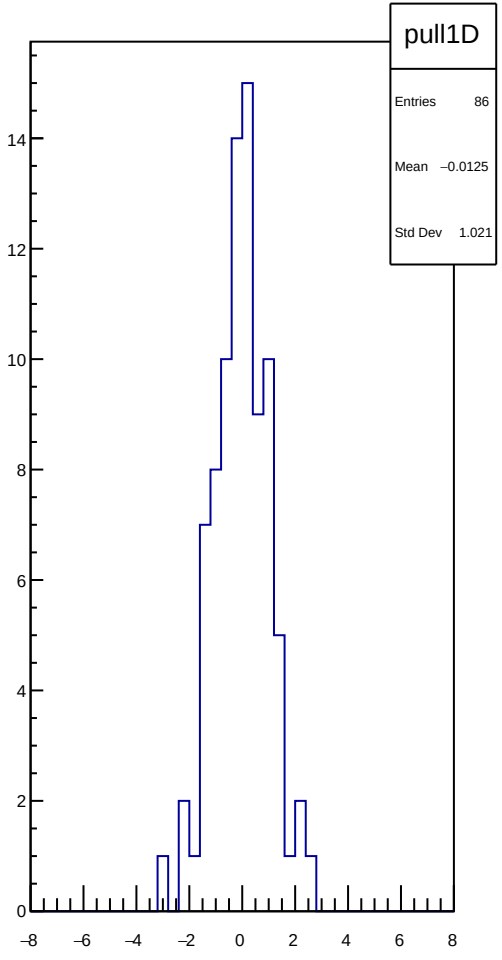

asym_usr_atr2_avg_rms vs run
χ² / ndf 2879 / 85
p0 4214 ± 3.252
4800
4600
4400
4200
4000
3800

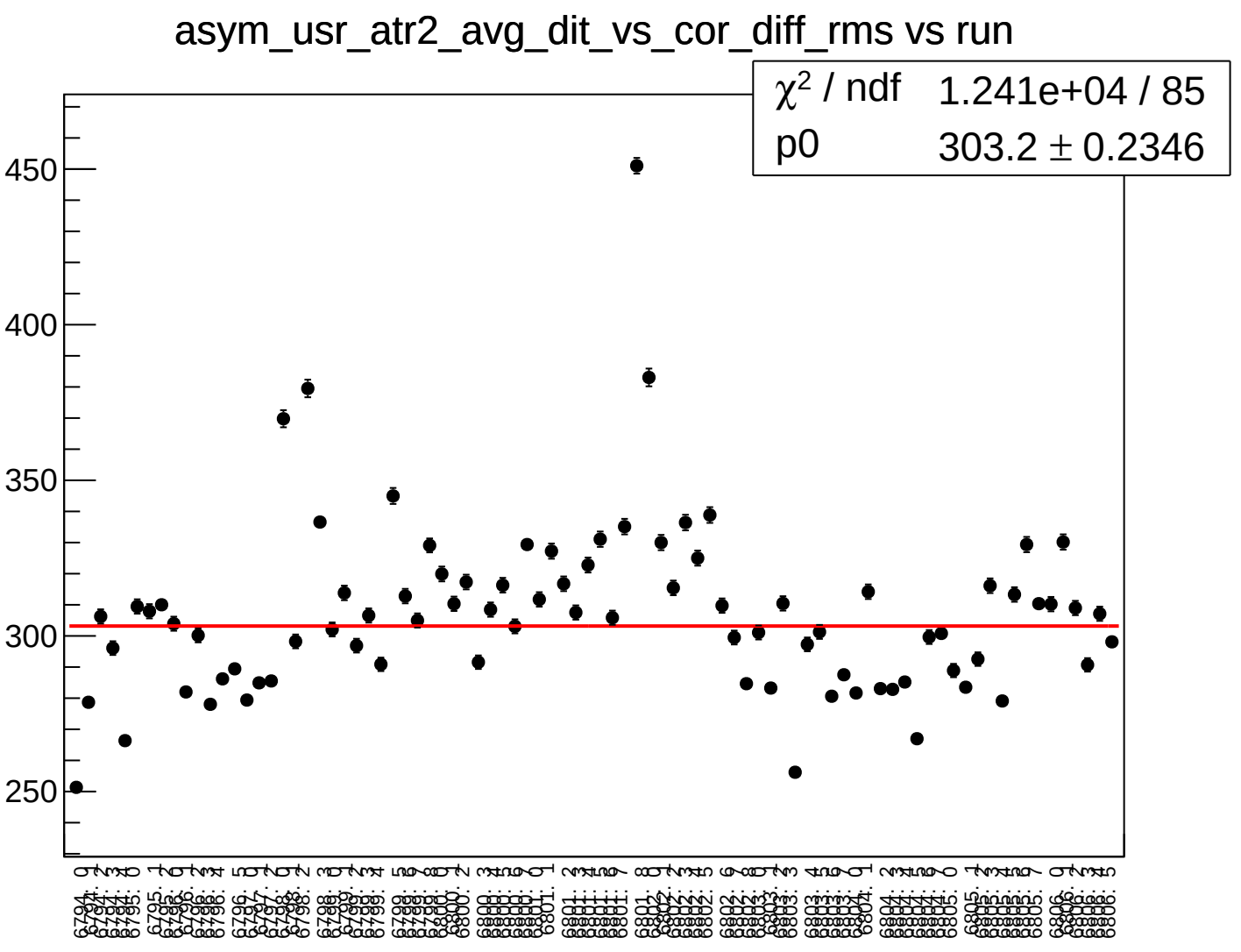

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.46 / 85
p0 −1.037e−13 ± 1.148e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean 59.11
Std Dev 0
2
1
0
−1
−2

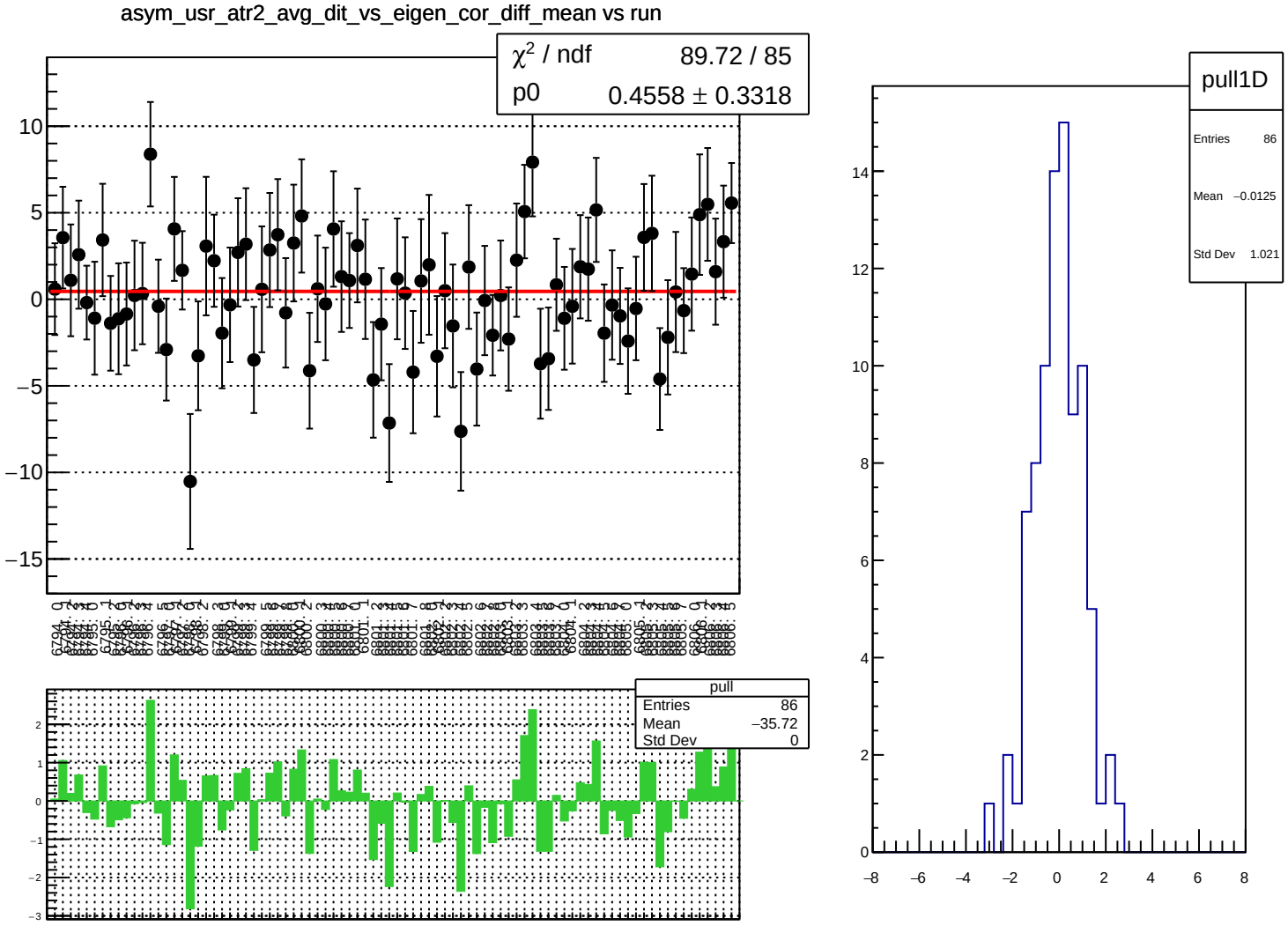

pull1D
Entries 86
Mean 0.05702
Std Dev 0.9716
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

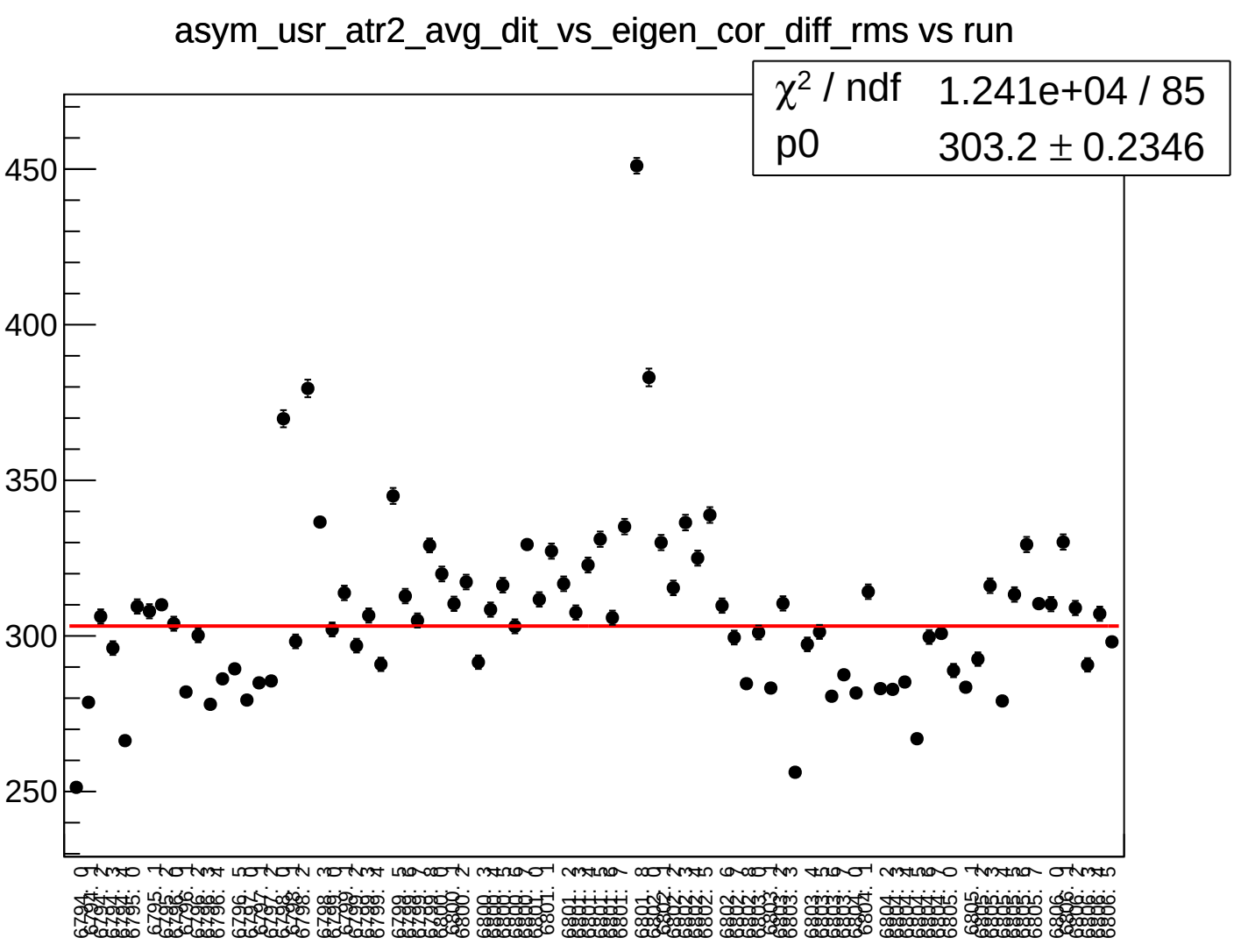

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 85
p0 5.821e−11 ± 8.118e−14
1.2
1
0.8
0.6
0.4
0.2
0

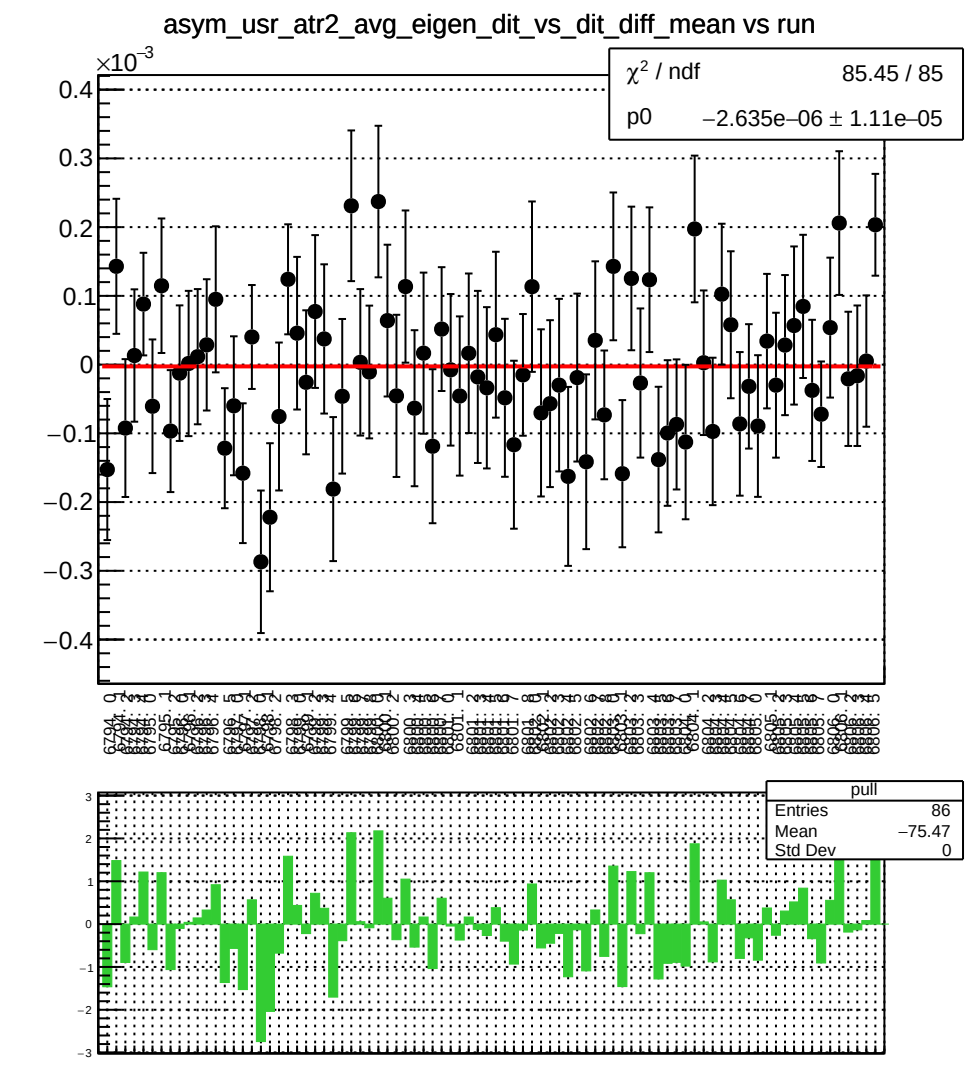

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 85
p0 0.4558 ± 0.3318
pull
Entries 86
Mean −35.72
Std Dev 0

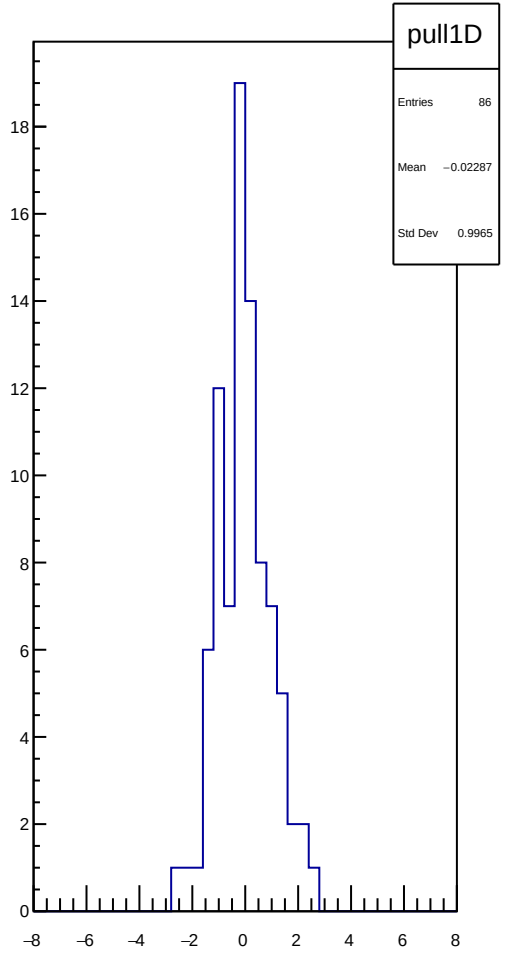

pull1D
Entries 86
Mean −0.0125
Std Dev 1.021

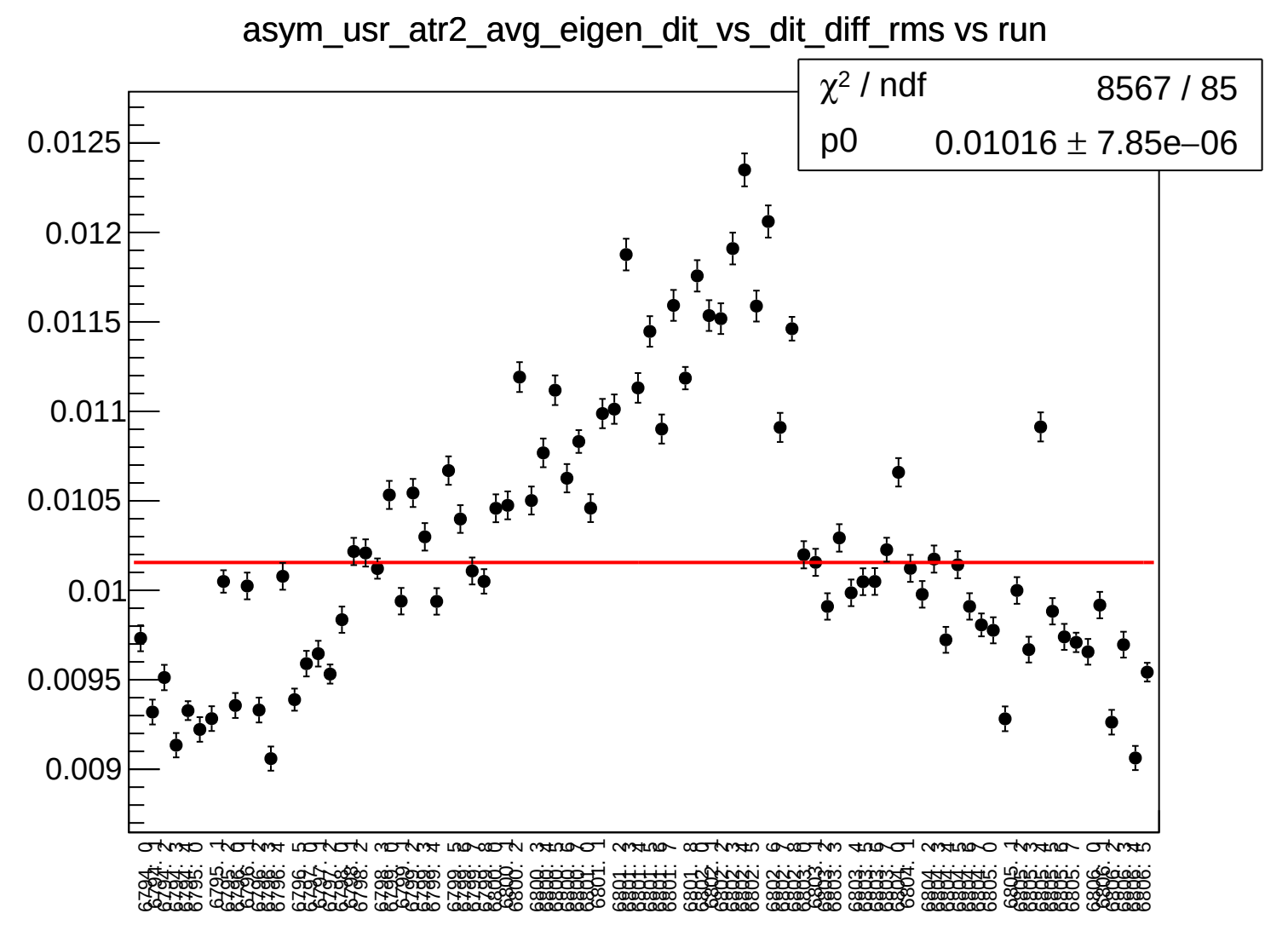

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.241e+04 / 85
p0 303.2 ± 0.2346
450
400
350
300
250

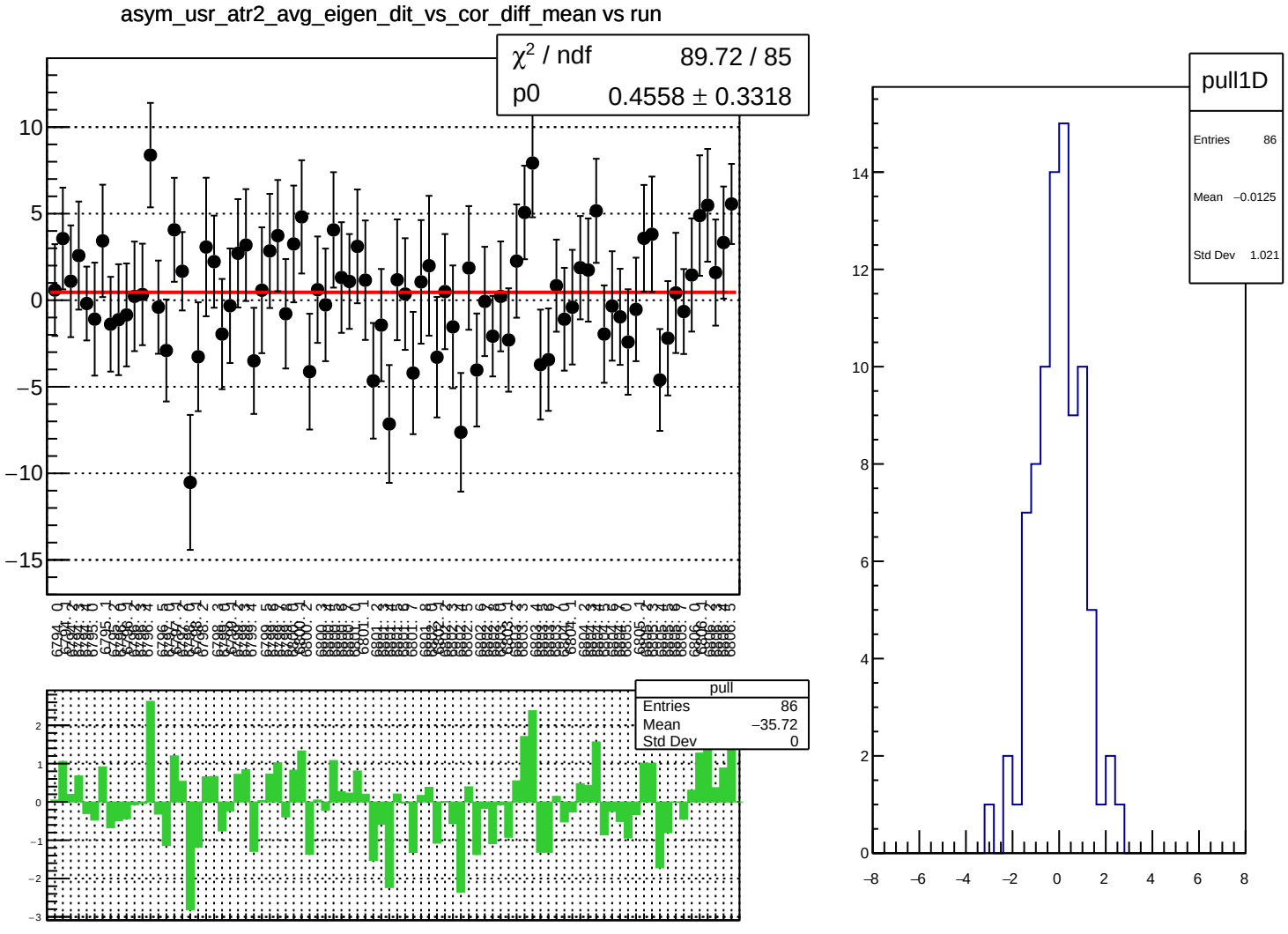

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.72 / 85
p0 0.4558 ± 0.3318
pull
Entries 86
Mean −35.72
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.021

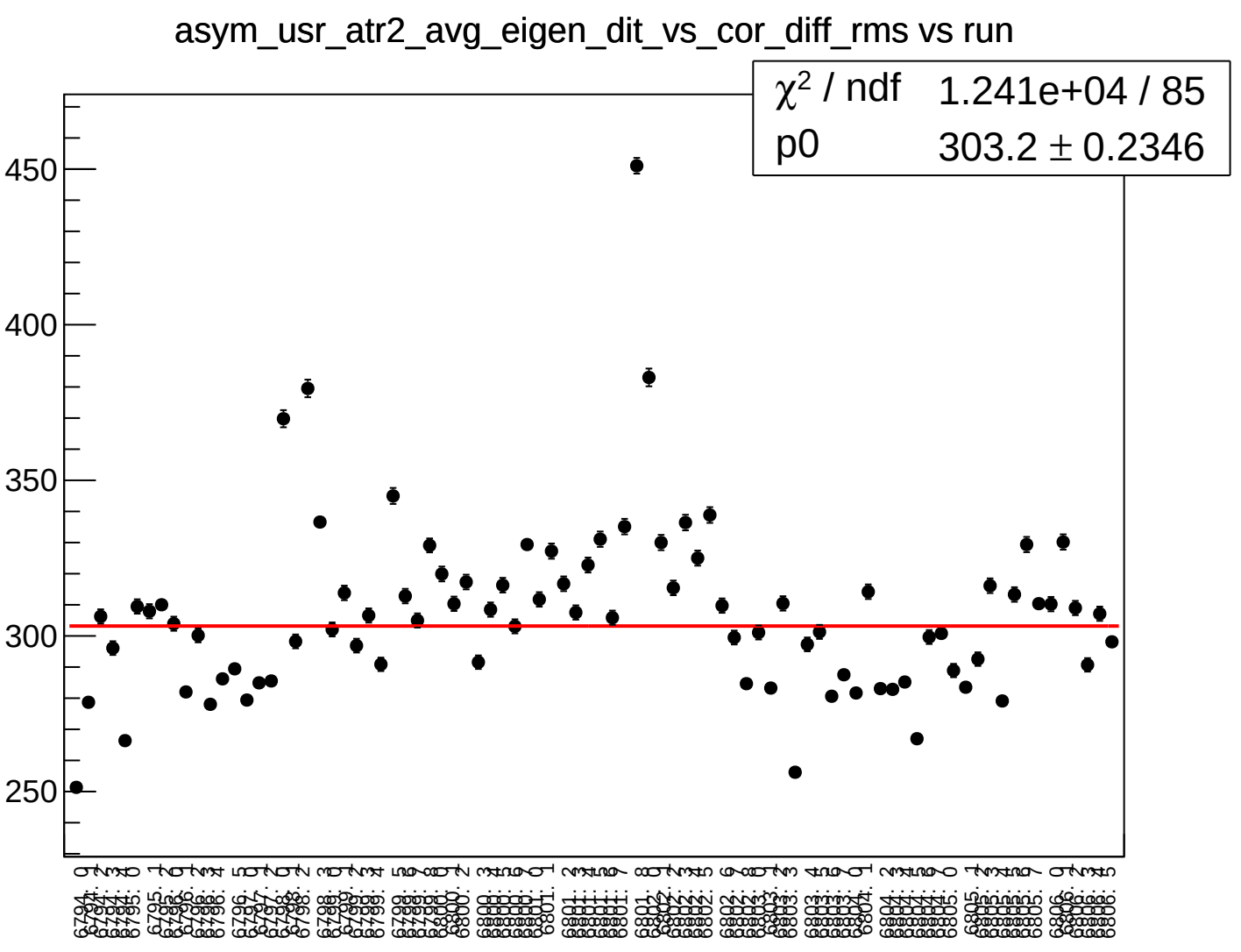

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.241e+04 / 85
p0 303.2 ± 0.2346
450
400
350
300
250

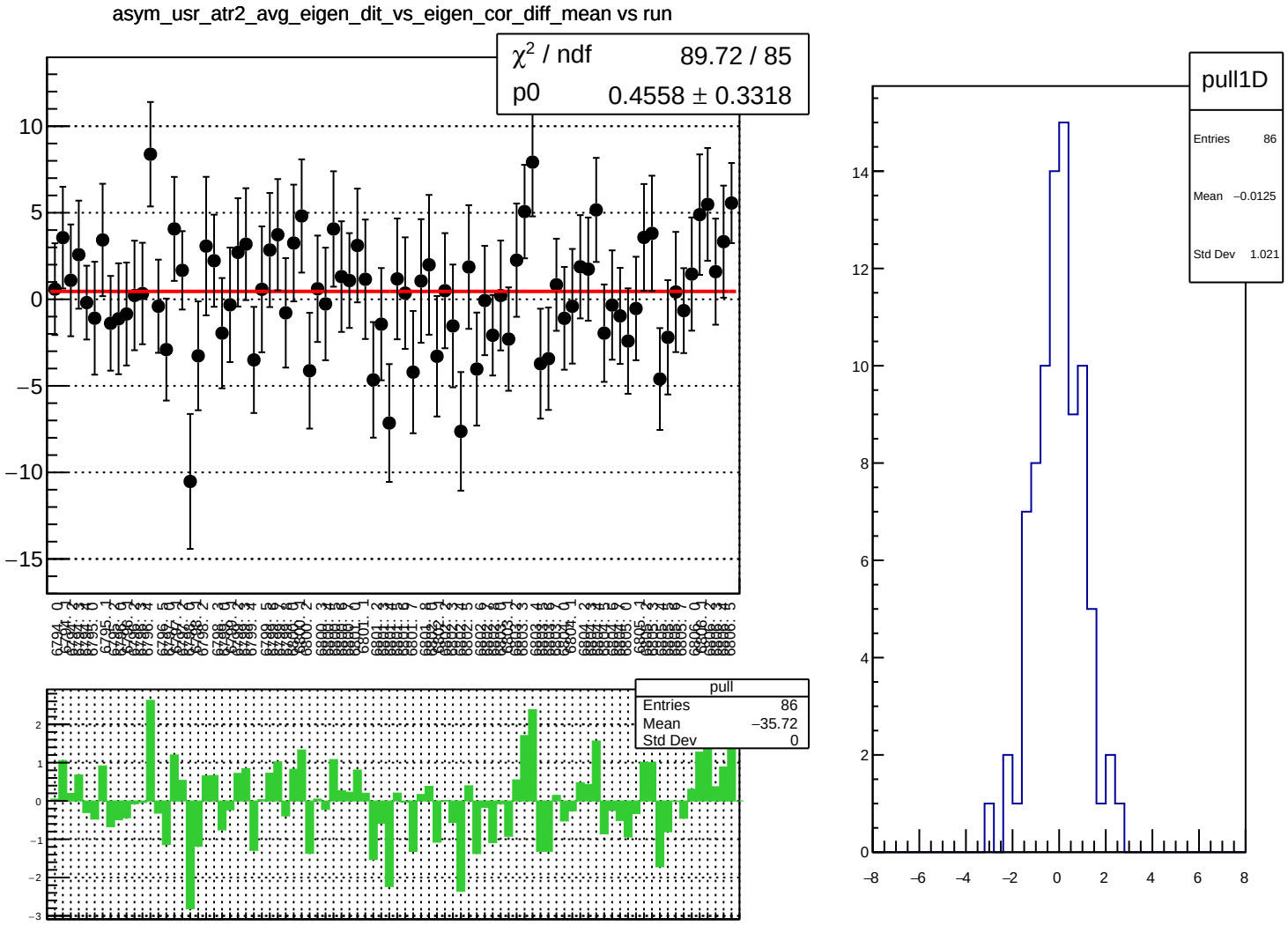

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.45 / 85
p0 −2.635e−06 ± 1.11e−05
pull
Entries 86
Mean −75.47
Std Dev 0

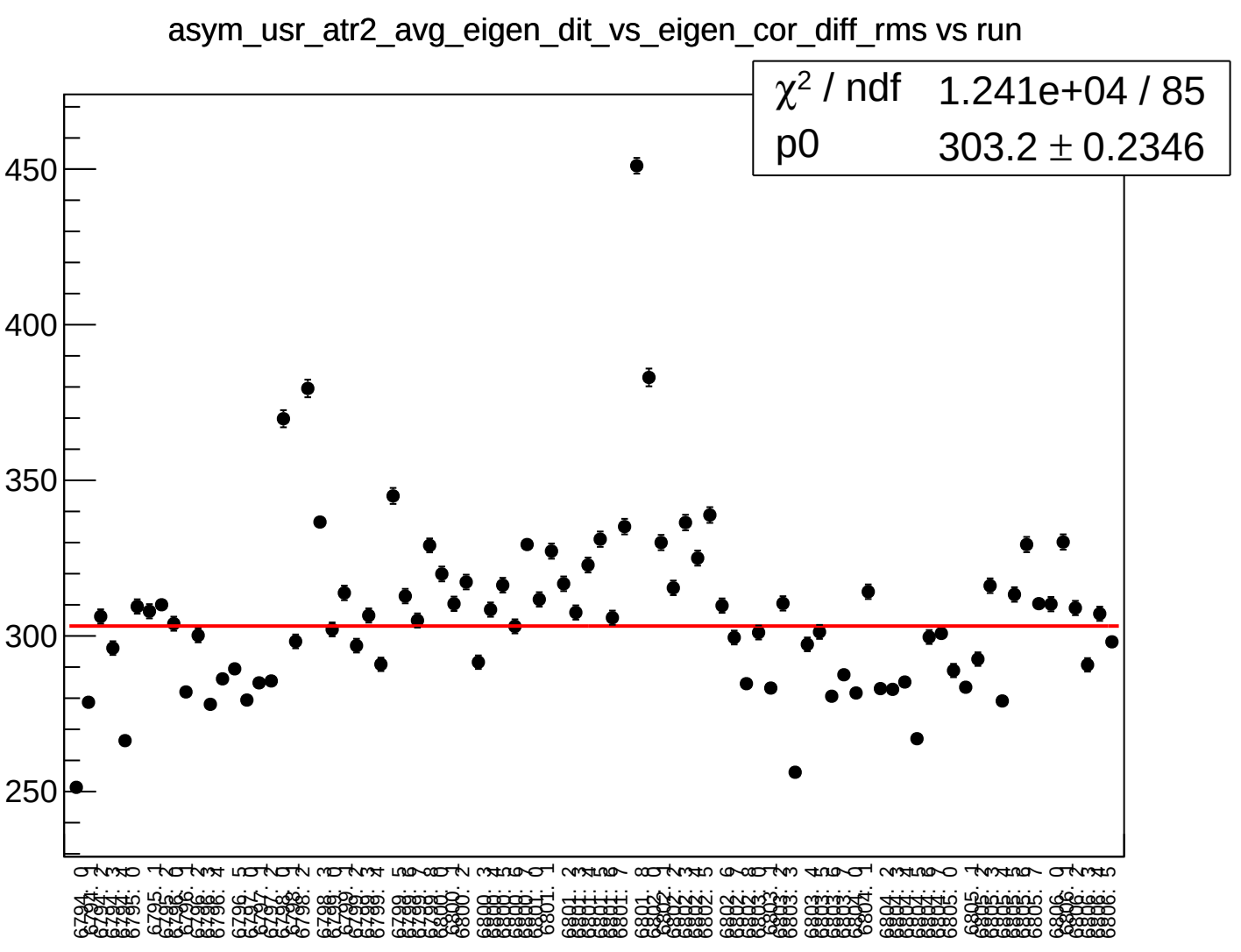

pull1D
Entries 86
Mean −0.02287
Std Dev 0.9965

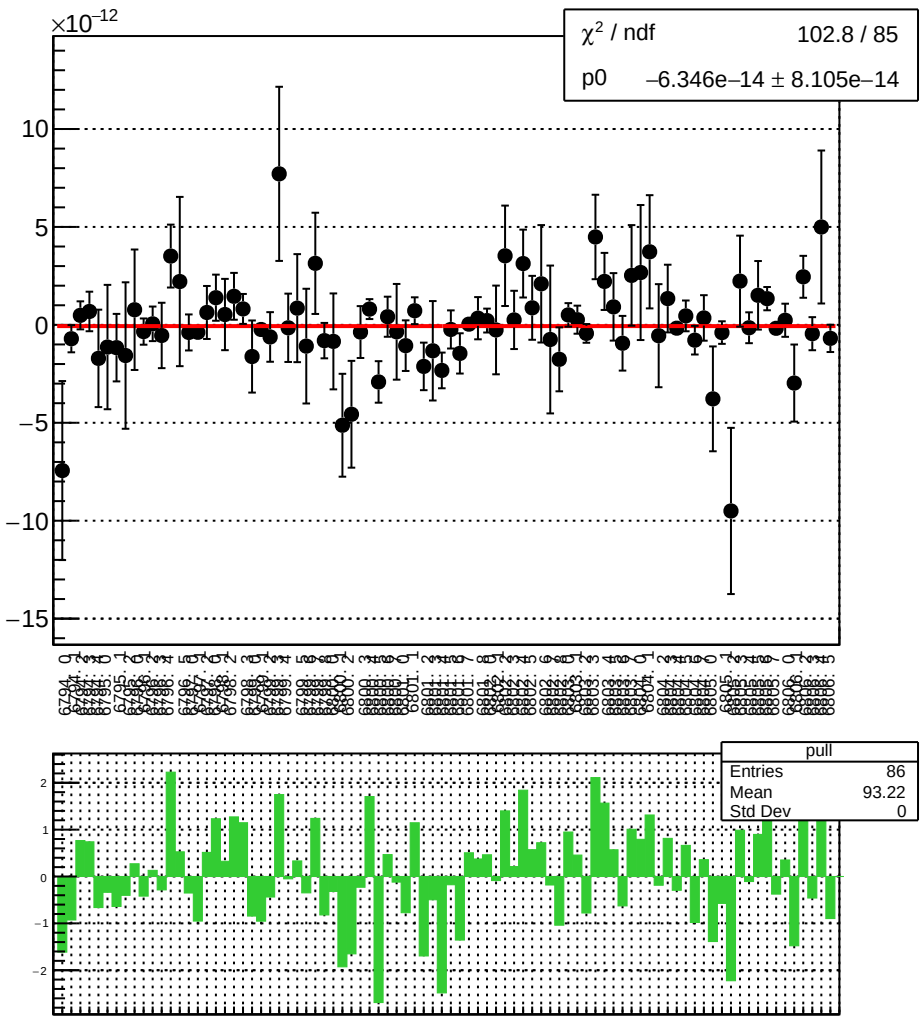

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8567 / 85
p0 0.01016 ± 7.85e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

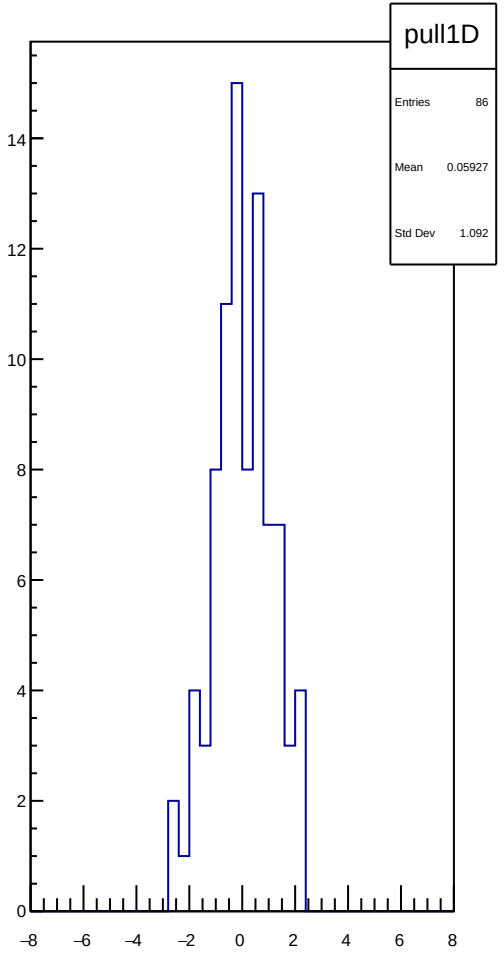

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.72 / 85
p0 0.4558 ± 0.3318
pull
Entries 86
Mean −35.72
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.021

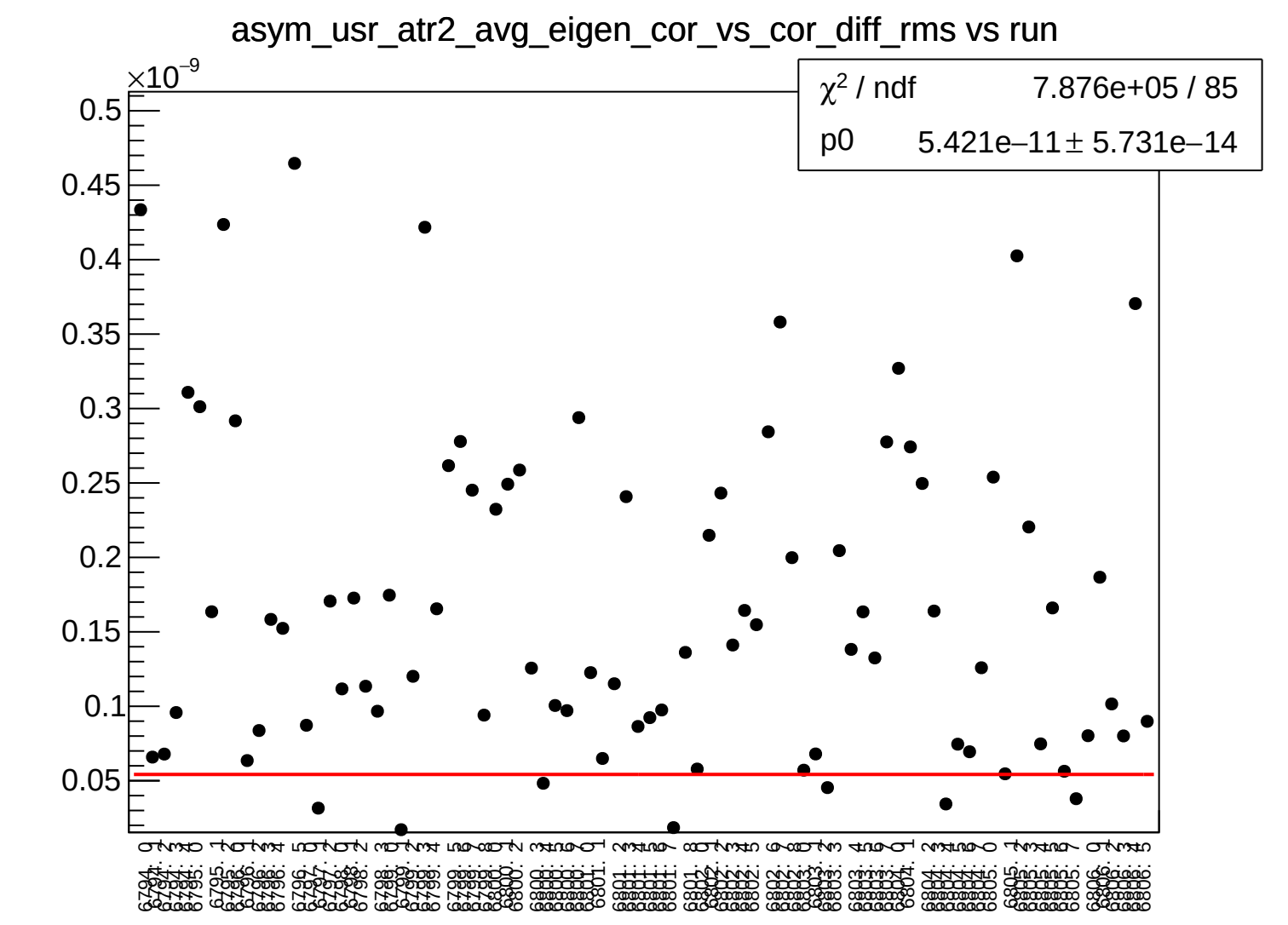

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.241e+04 / 85
p0 303.2 ± 0.2346
450
400
350
300
250

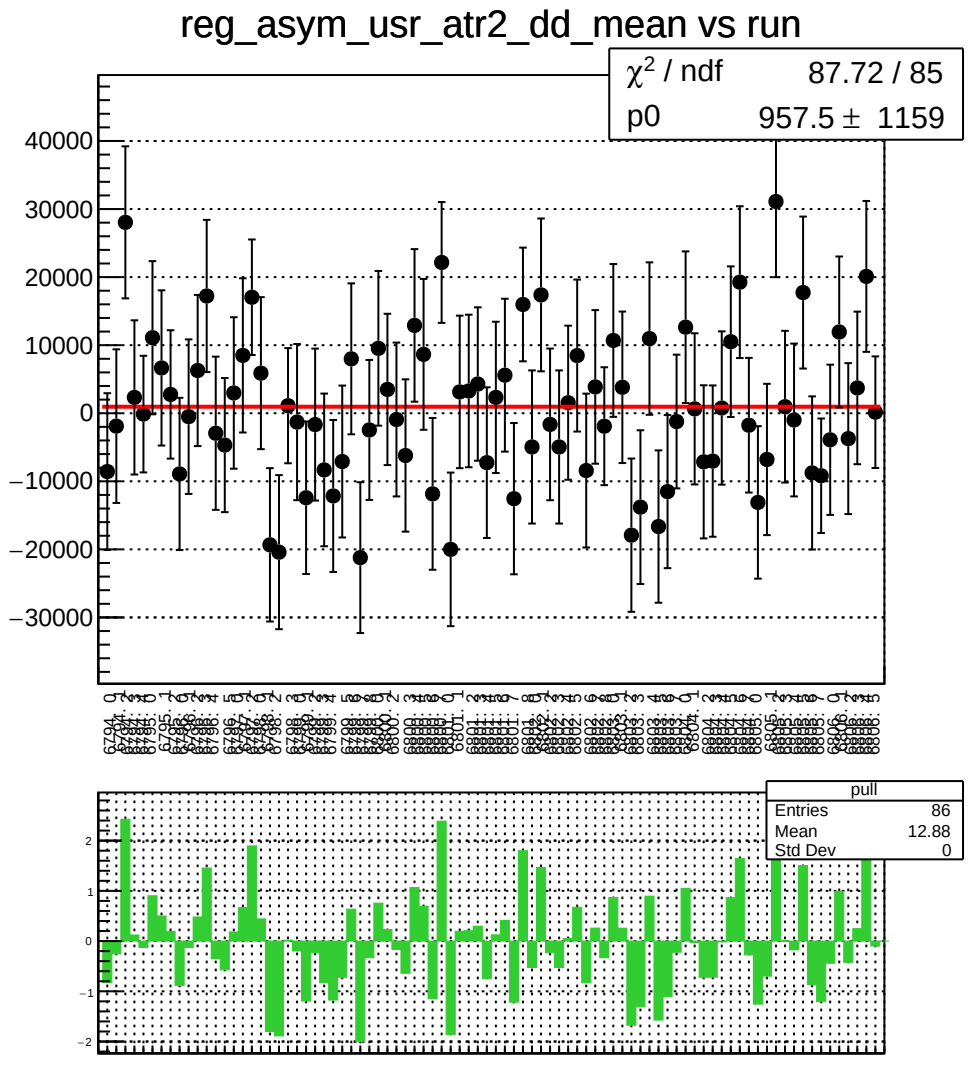

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.72 / 85
p0 0.4558 ± 0.3318
pull
Entries 86
Mean −35.72
Std Dev 0
pull1D
Entries 86
Mean −0.0125
Std Dev 1.021

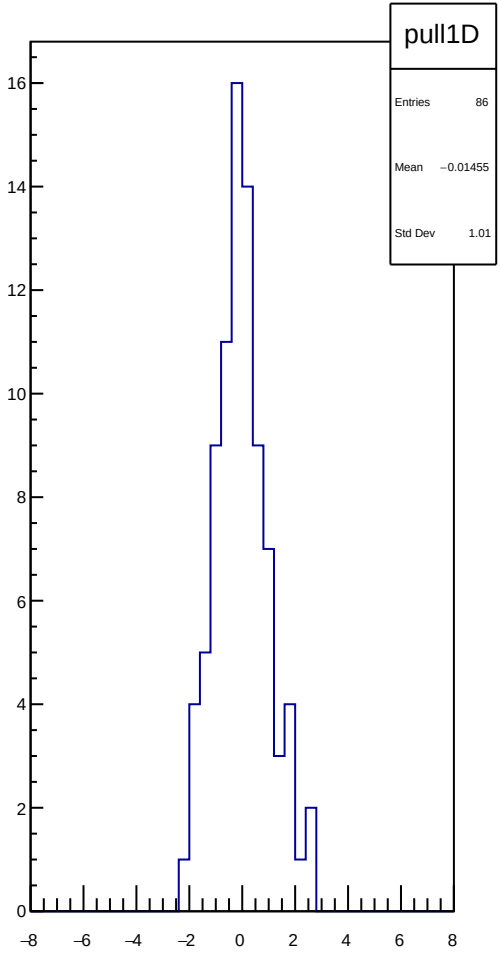

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.241e+04 / 85
p0 303.2 ± 0.2346
450
400
350
300
250

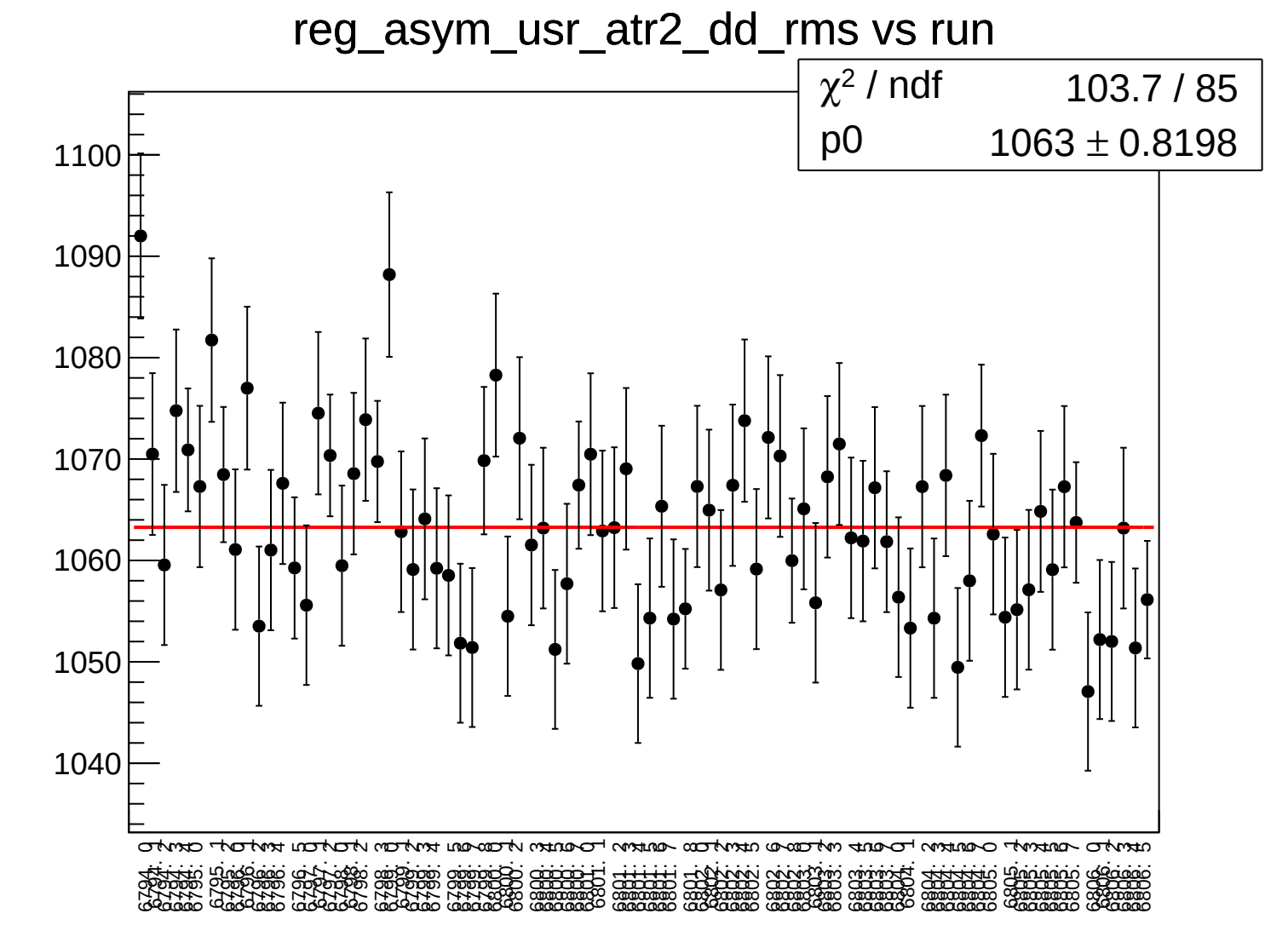

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 85
p0 −6.346e−14 ± 8.105e−14
pull
Entries 86
Mean 93.22
Std Dev 0

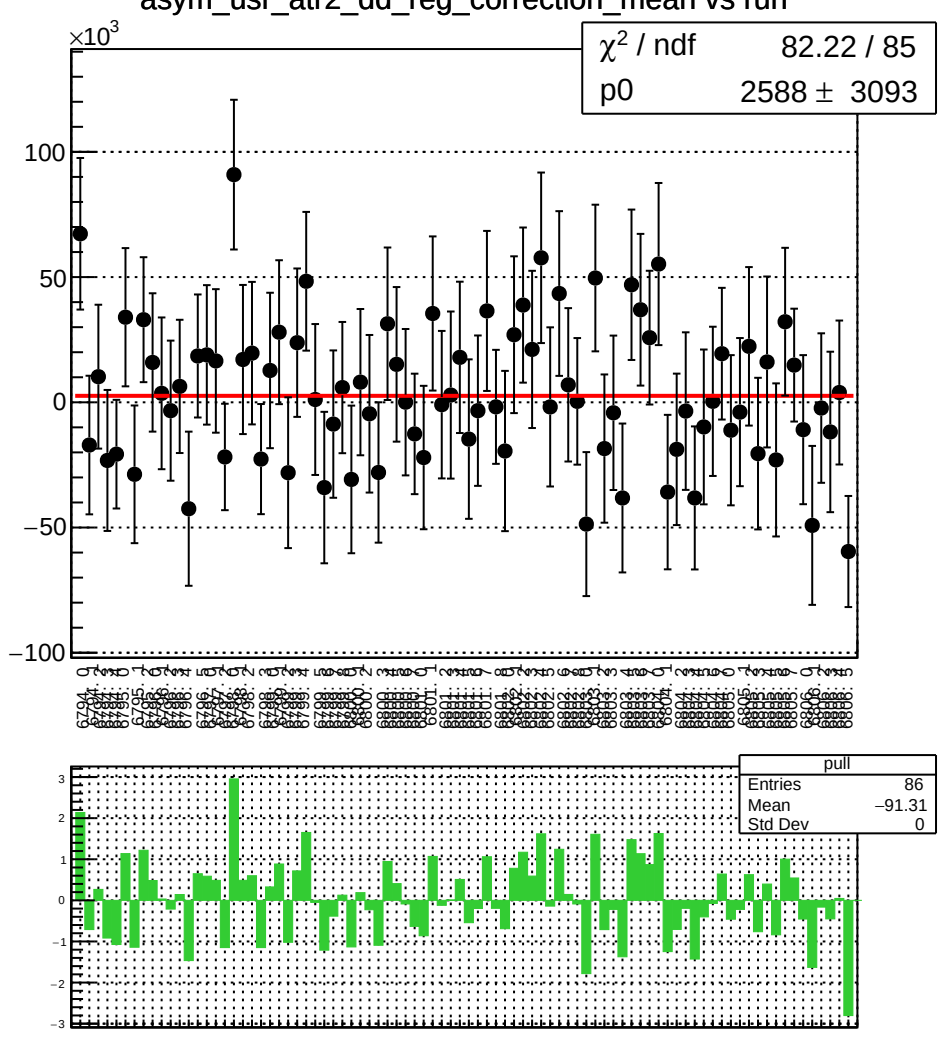

pull1D
Entries 86
Mean 0.05927
Std Dev 1.092

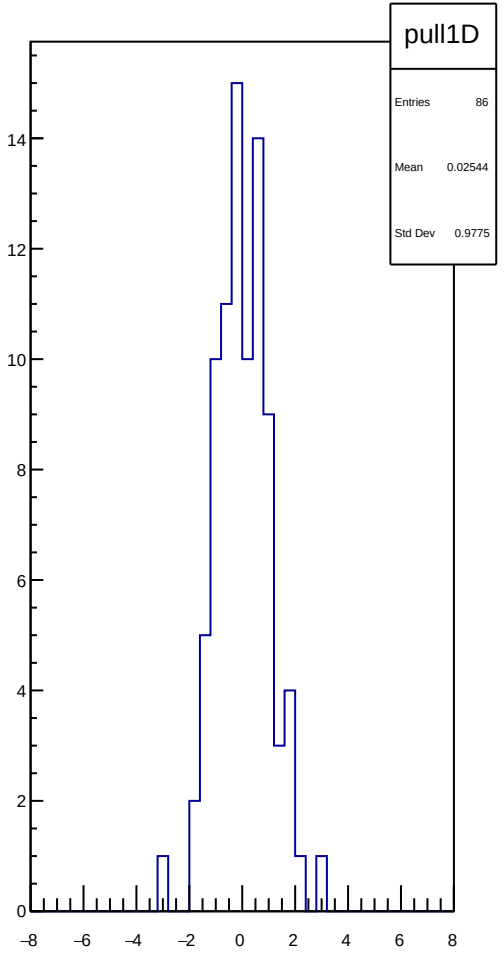

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.876e+05 / 85
p0 5.421e−11 ± 5.731e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

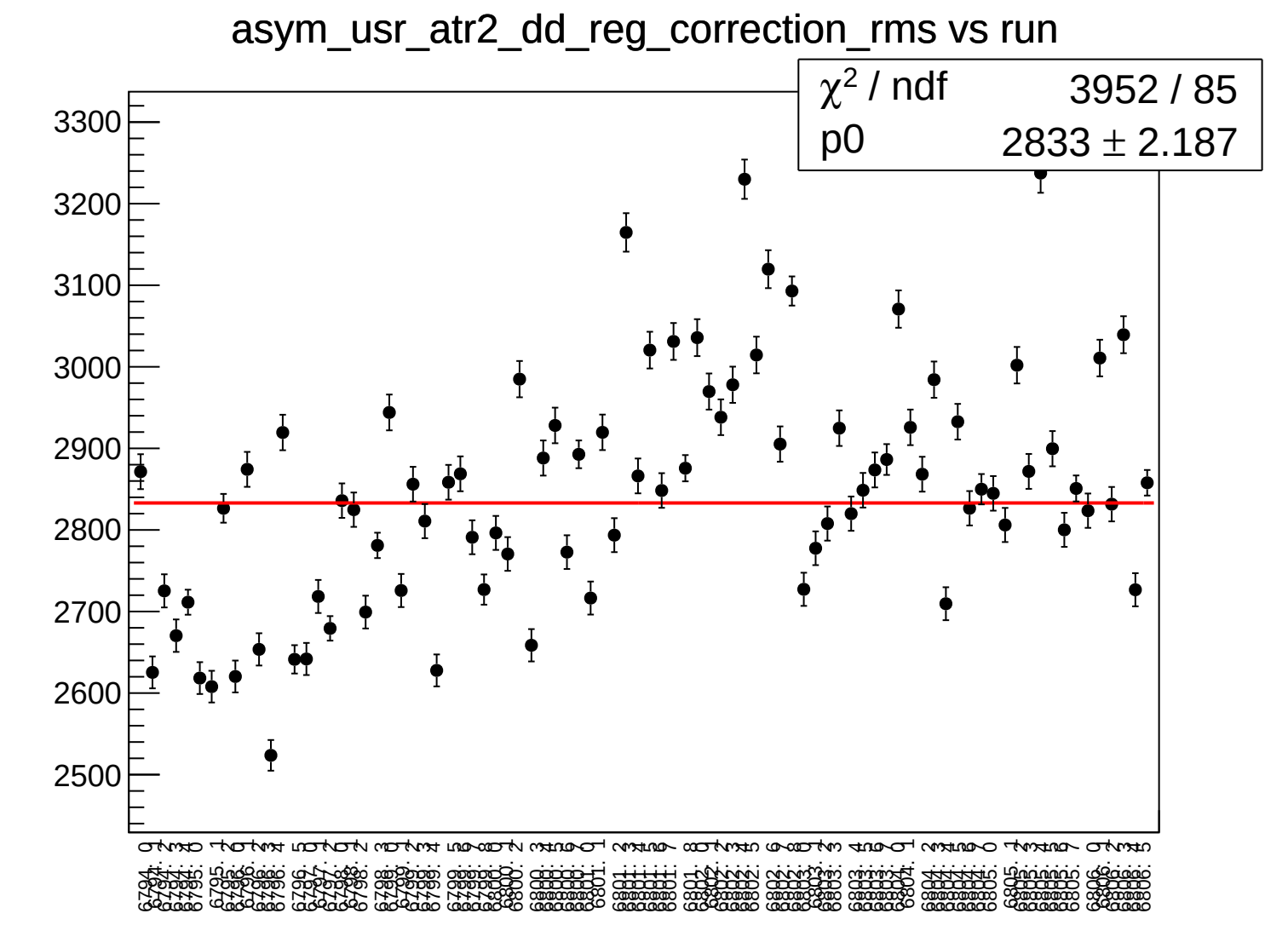

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.72 / 85
p0 957.5 ± 1159
pull
Entries 86
Mean 12.88
Std Dev 0

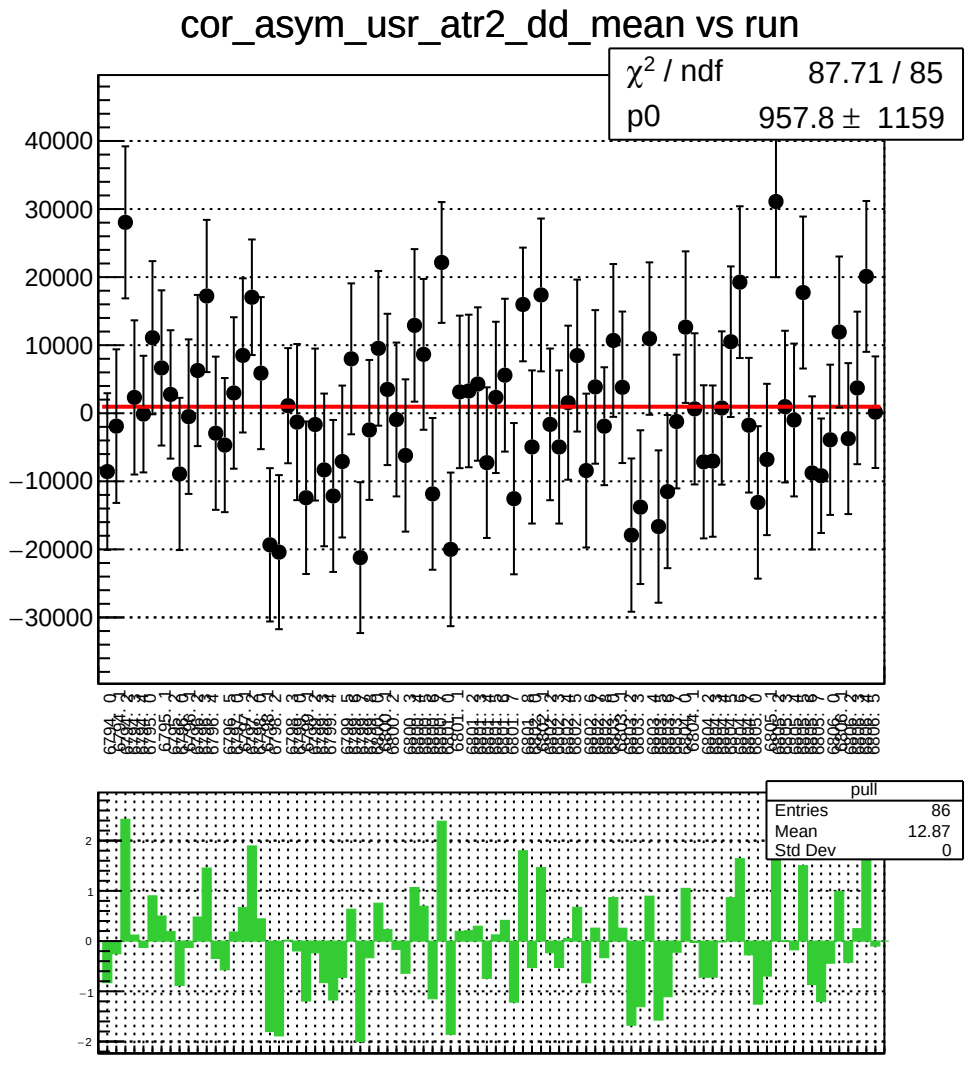

pull1D
Entries 86
Mean −0.01455
Std Dev 1.01

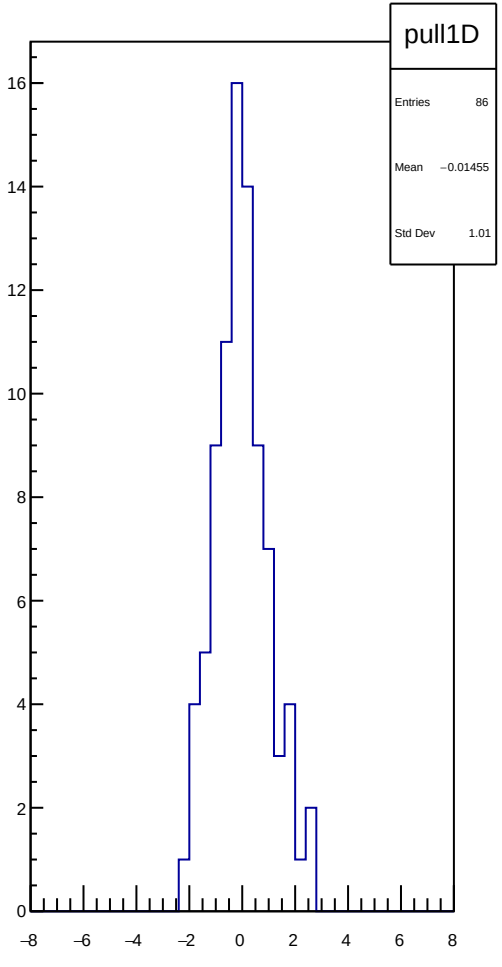

reg_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 103.7 / 85
p0 1063 ± 0.8198
1100
1090
1080
1070
1060
1050
1040

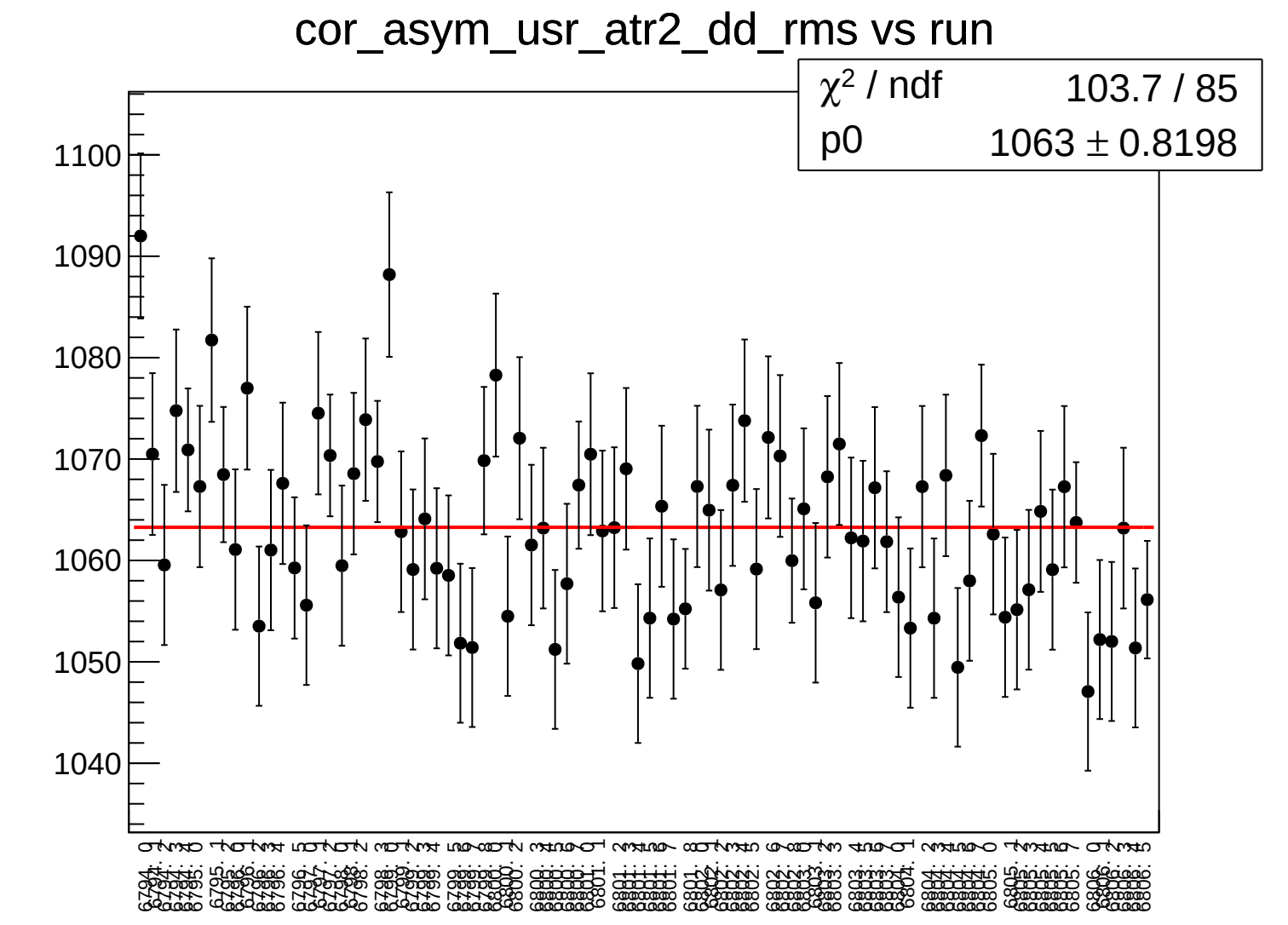

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.22 / 85
p0 2588 ± 3093
100
50
0
−50
−100
pull
Entries 86
Mean −91.31
Std Dev 0
3
2
1
0
−1
−2
−3

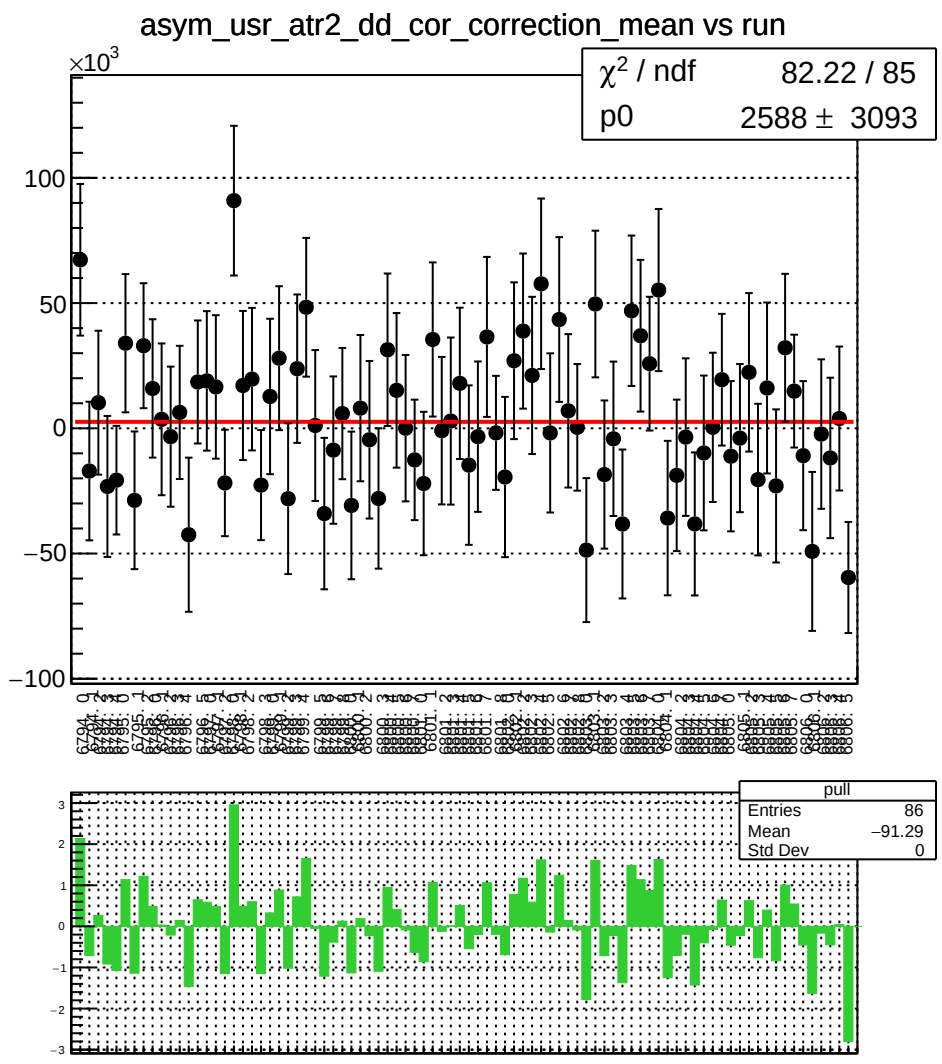

pull1D
Entries 86
Mean 0.02544
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

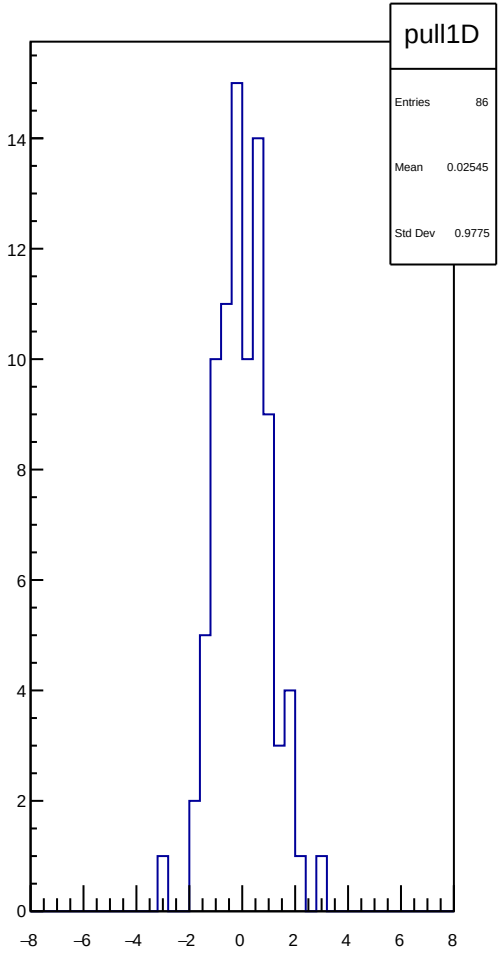

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 3952 / 85
p0 2833 ± 2.187
3300
3200
3100
3000
2900
2800
2700
2600
2500

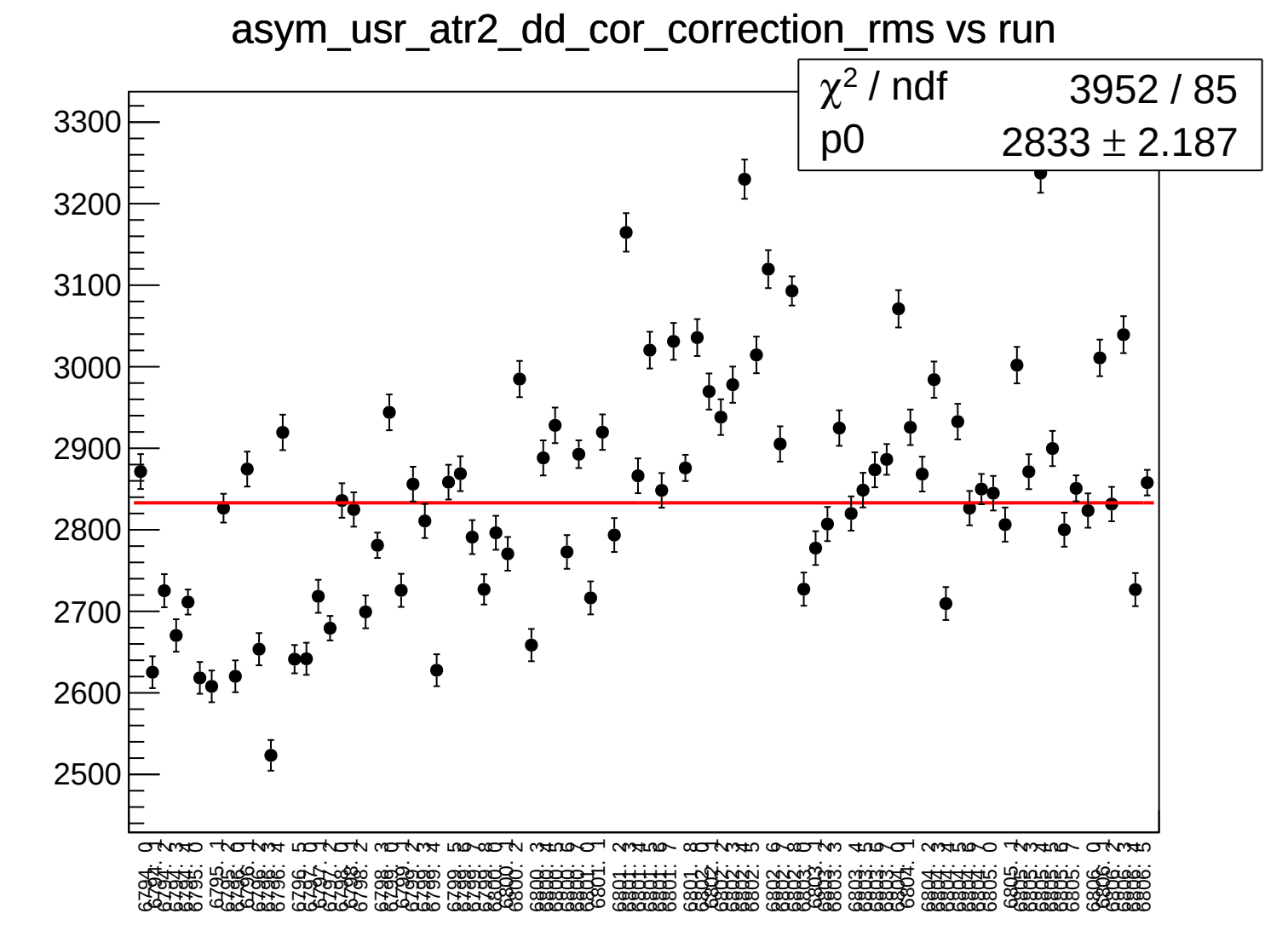

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.71 / 85
p0 957.8 ± 1159
pull
Entries 86
Mean 12.87
Std Dev 0

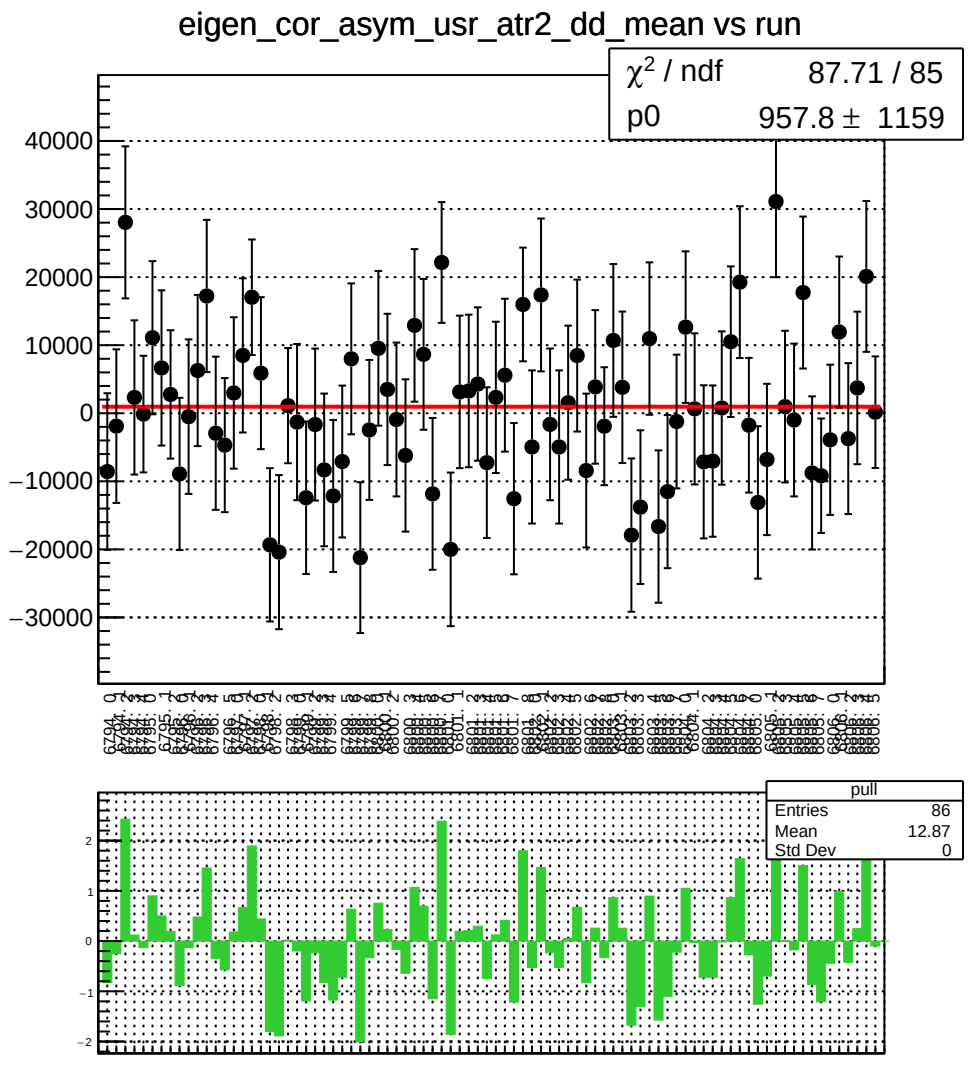

pull1D
Entries 86
Mean −0.01455
Std Dev 1.01

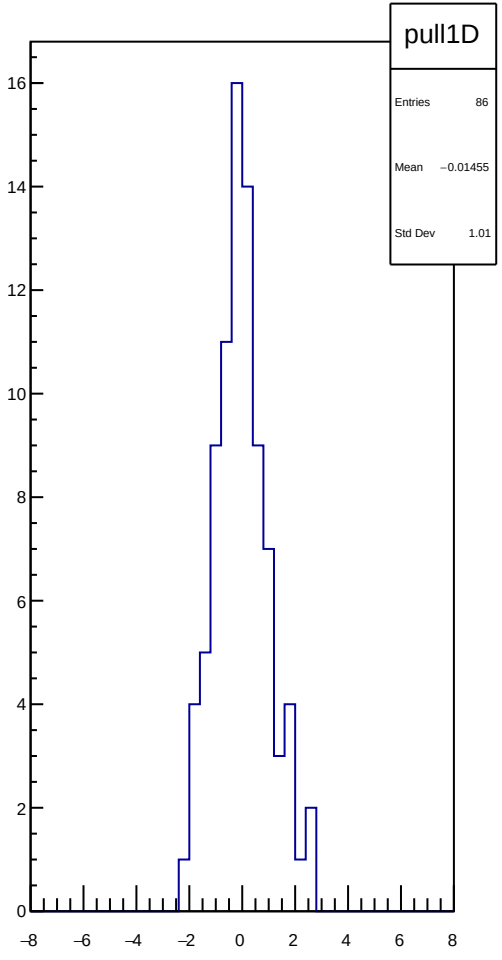

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 103.7 / 85
p0 1063 ± 0.8198
1100
1090
1080
1070
1060
1050
1040

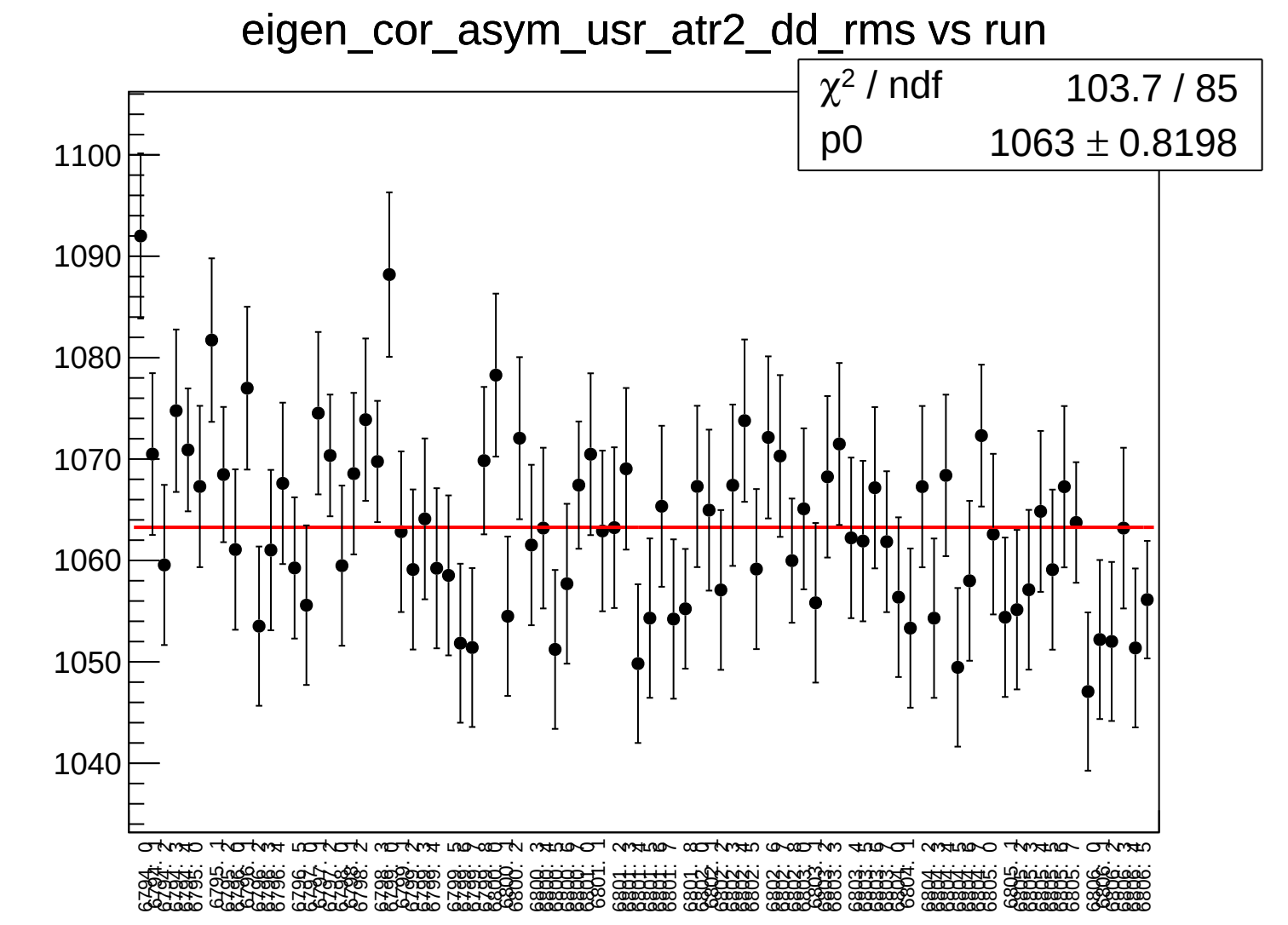

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.22 / 85
p0 2588 ± 3093
100
50
0
−50
−100
pull
Entries 86
Mean −91.29
Std Dev 0
3
2
1
0
−1
−2
−3

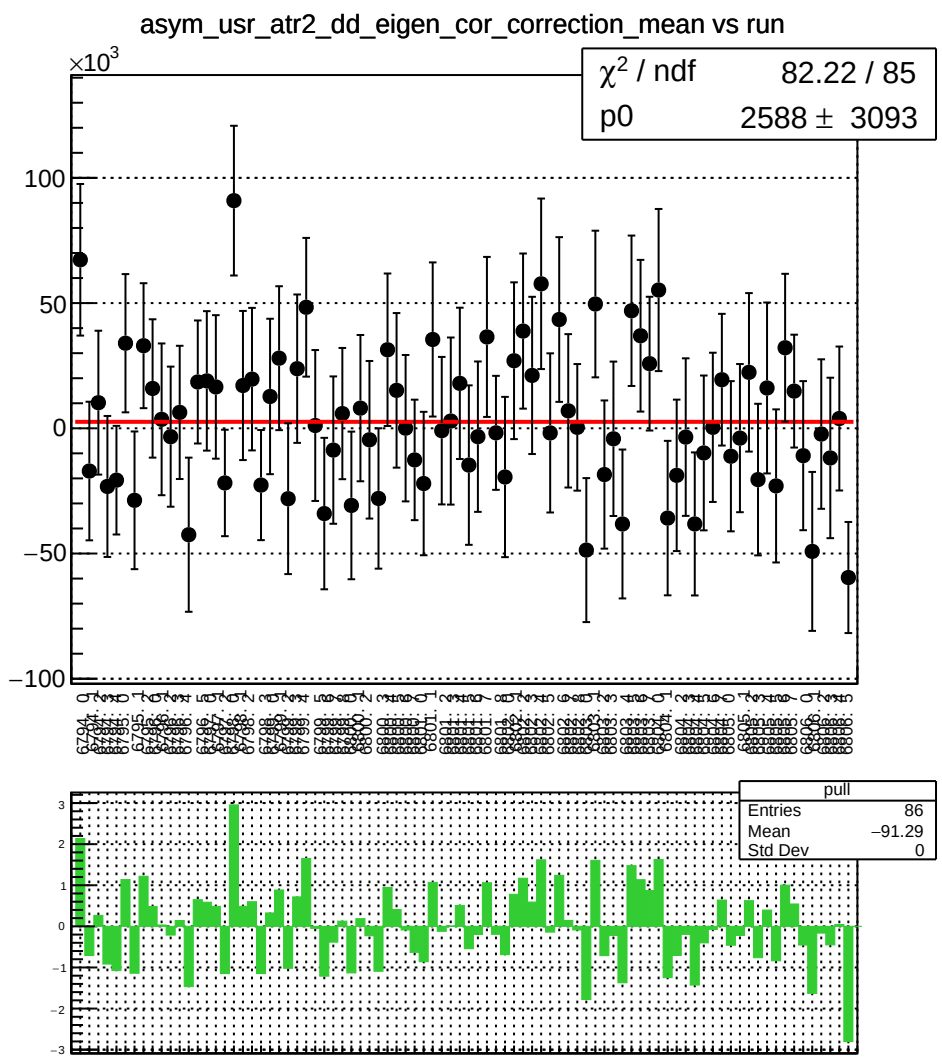

pull1D
Entries 86
Mean 0.02545
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

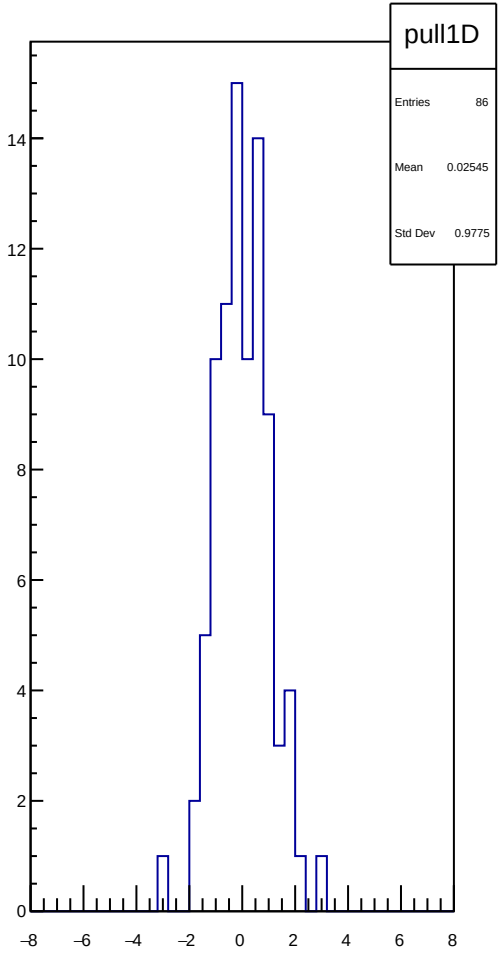

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 3952 / 85
p0 2833 ± 2.187
3300
3200
3100
3000
2900
2800
2700
2600
2500

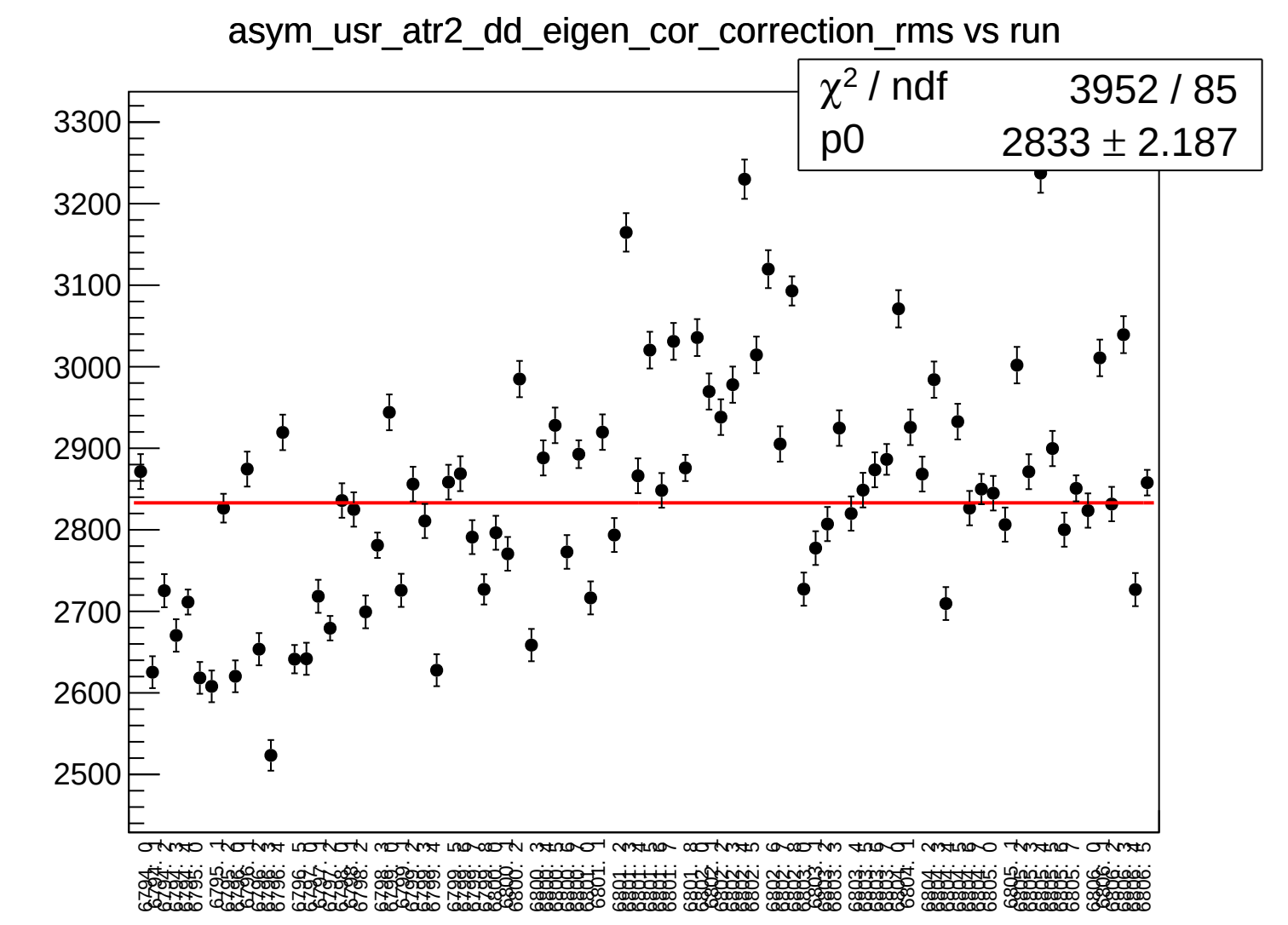

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 87.71 / 85
p0 957.8 ± 1159
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 12.87
Std Dev 0
2
1
0
−1
−2

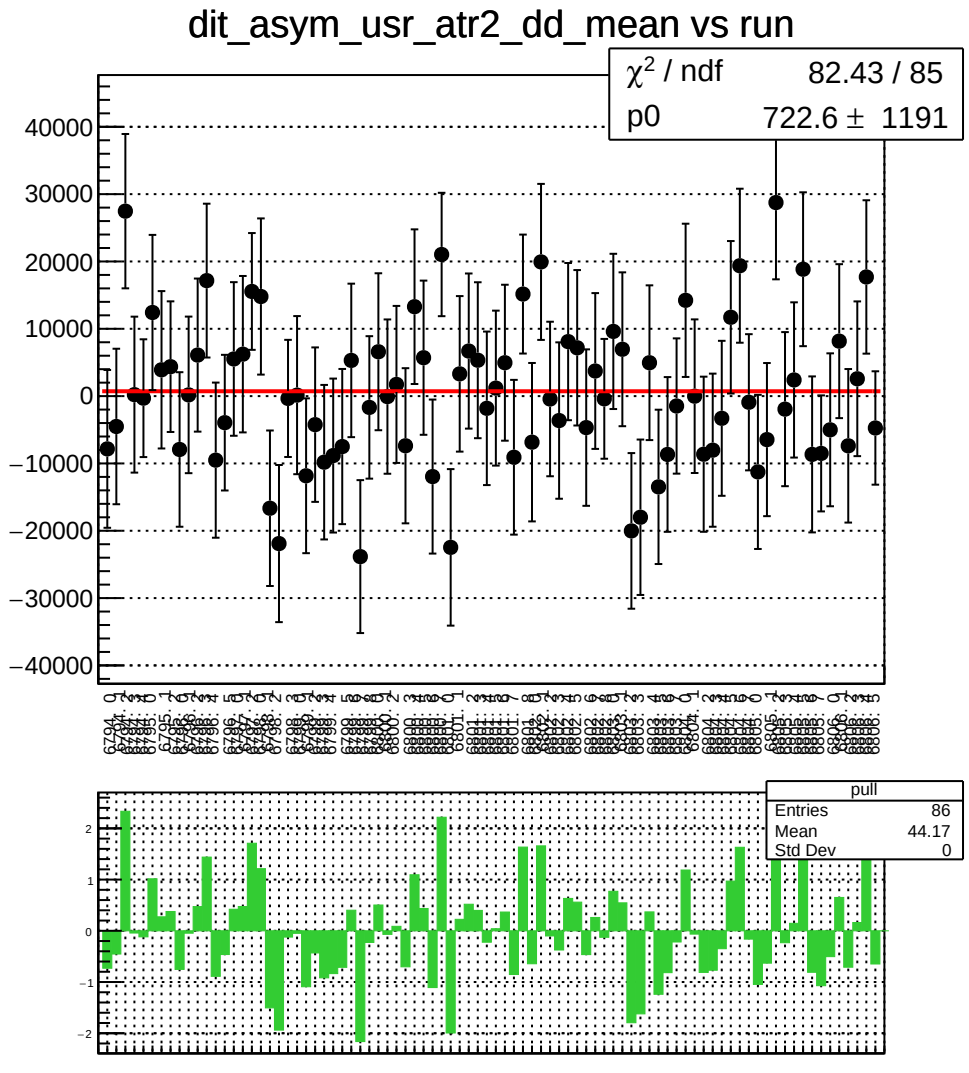

pull1D
Entries 86
Mean −0.01455
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

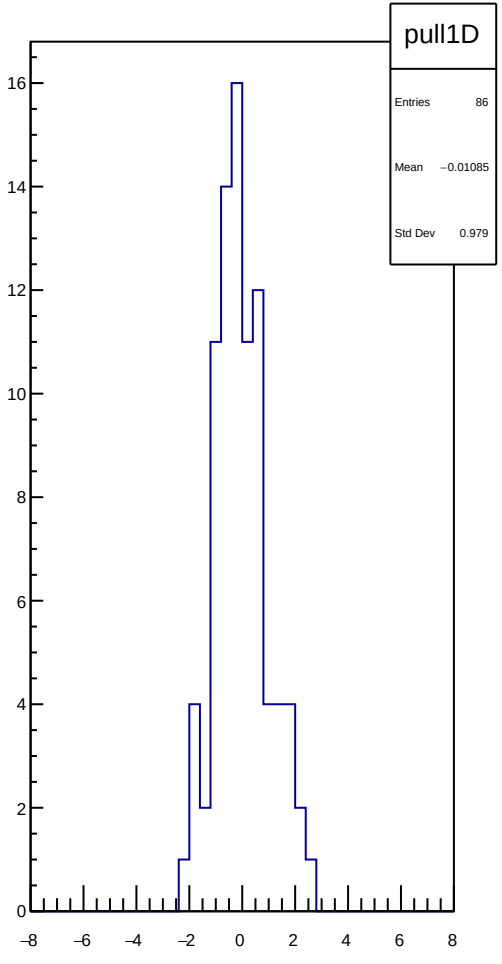

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 103.7 / 85
p0 1063 ± 0.8198
1100
1090
1080
1070
1060
1050
1040

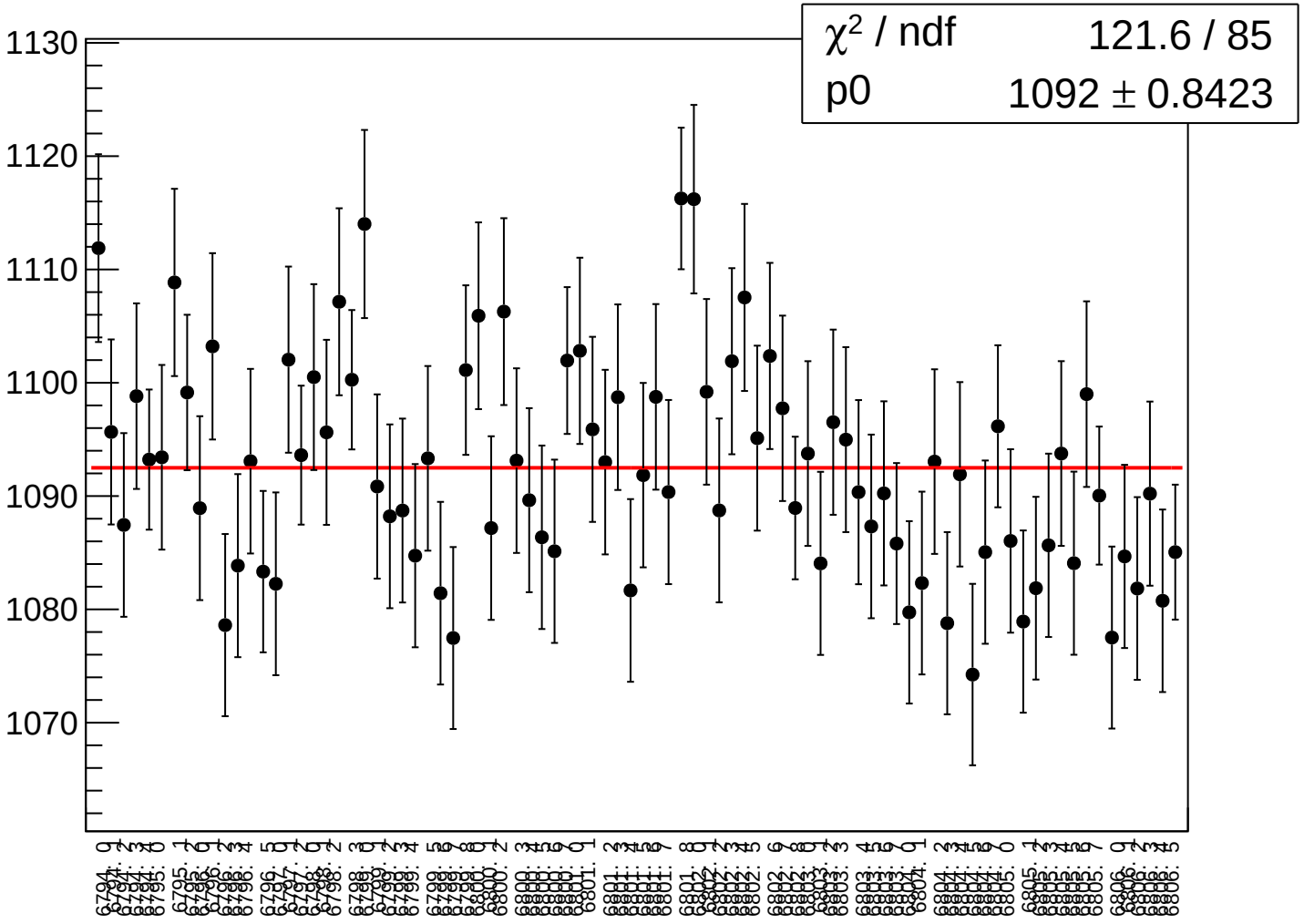

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.22 / 85
p0 2588 ± 3093
100
50
0
−50
−100
pull
Entries 86
Mean −91.29
Std Dev 0
3
2
1
0
−1
−2
−3

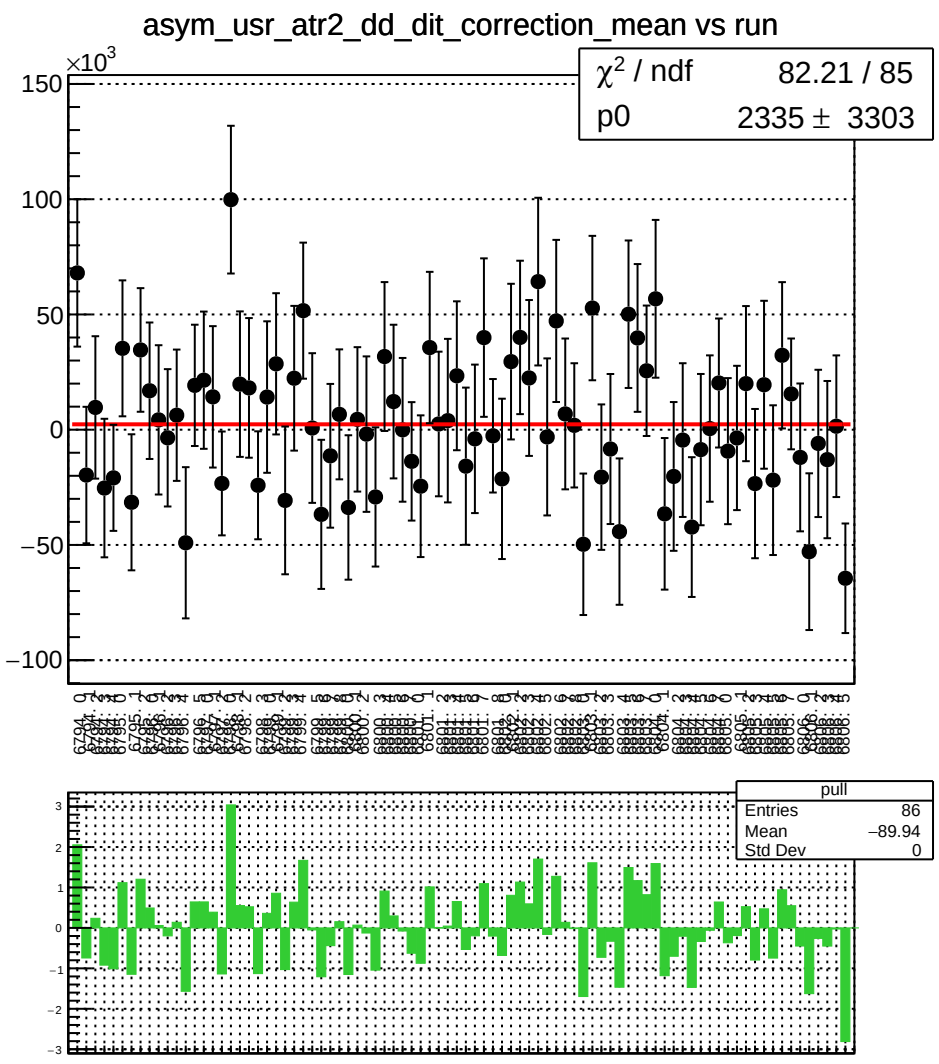

pull1D
Entries 86
Mean 0.02545
Std Dev 0.9775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

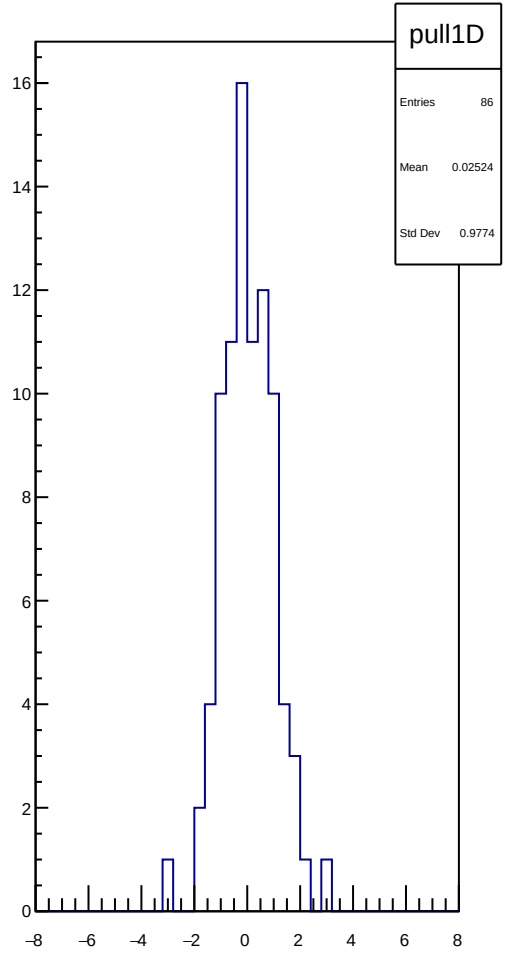

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3952 / 85
p0 2833 ± 2.187
3300
3200
3100
3000
2900
2800
2700
2600
2500

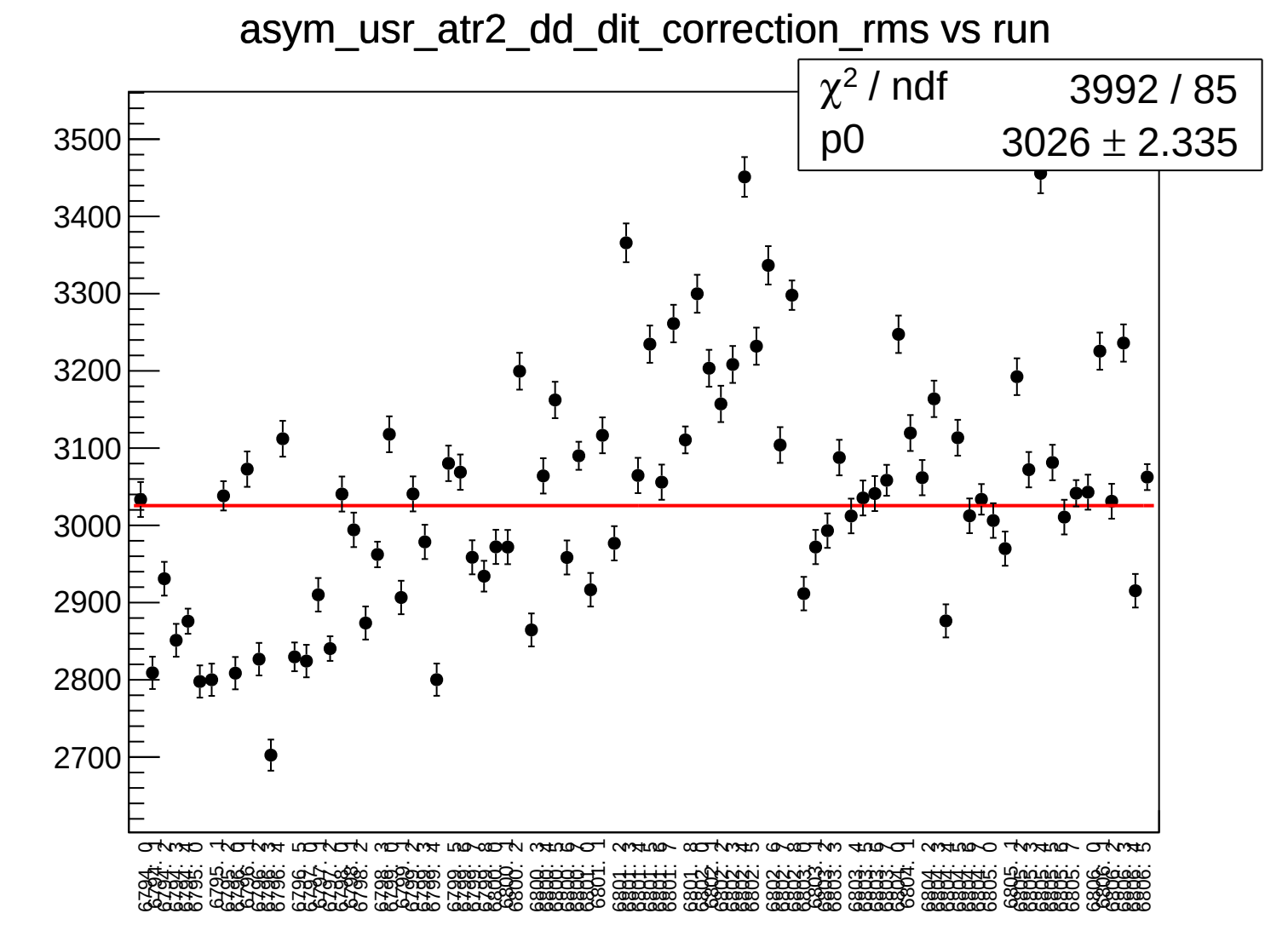

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.43 / 85
p0 722.6 ± 1191
pull
Entries 86
Mean 44.17
Std Dev 0

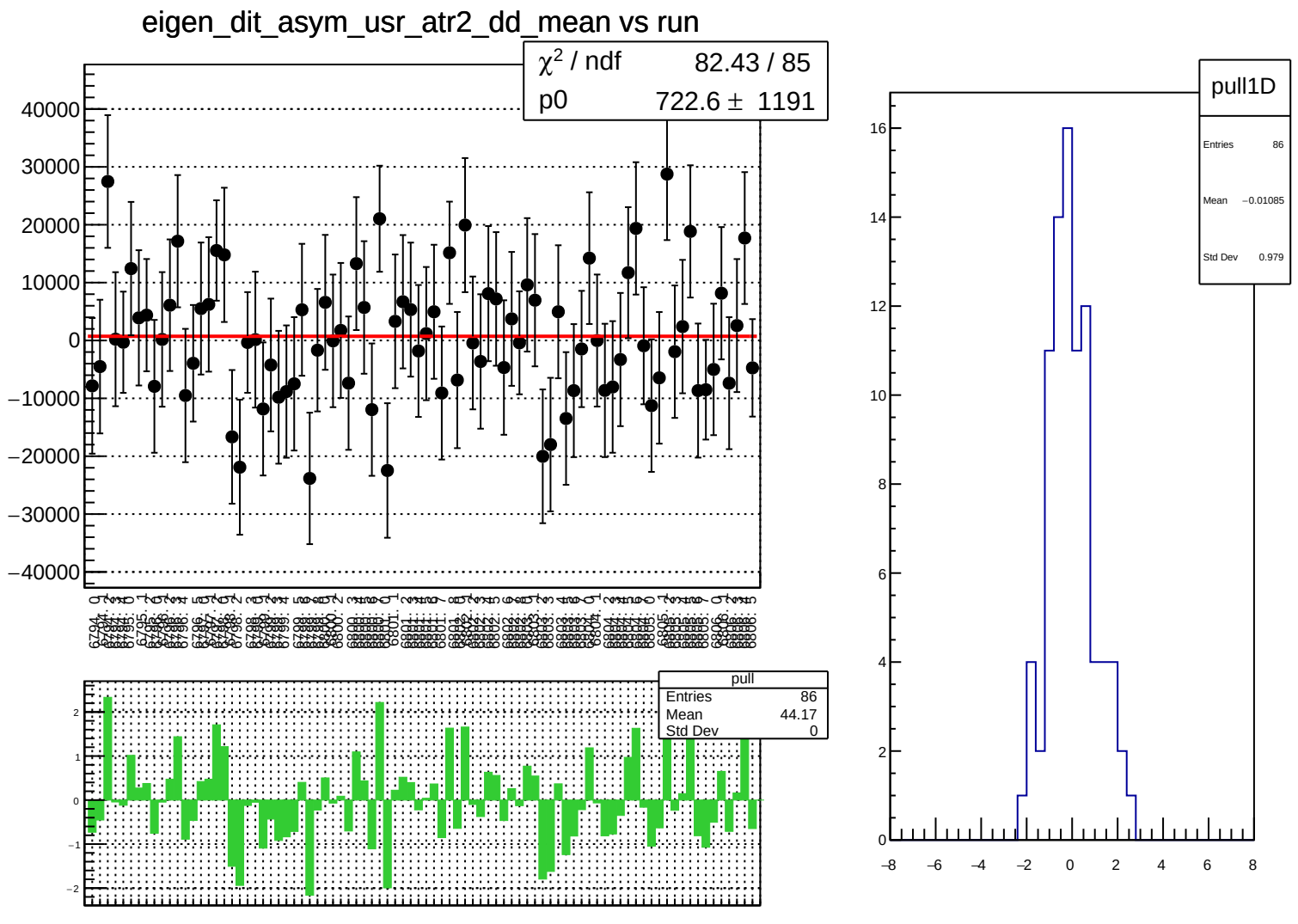

pull1D
Entries 86
Mean −0.01085
Std Dev 0.979

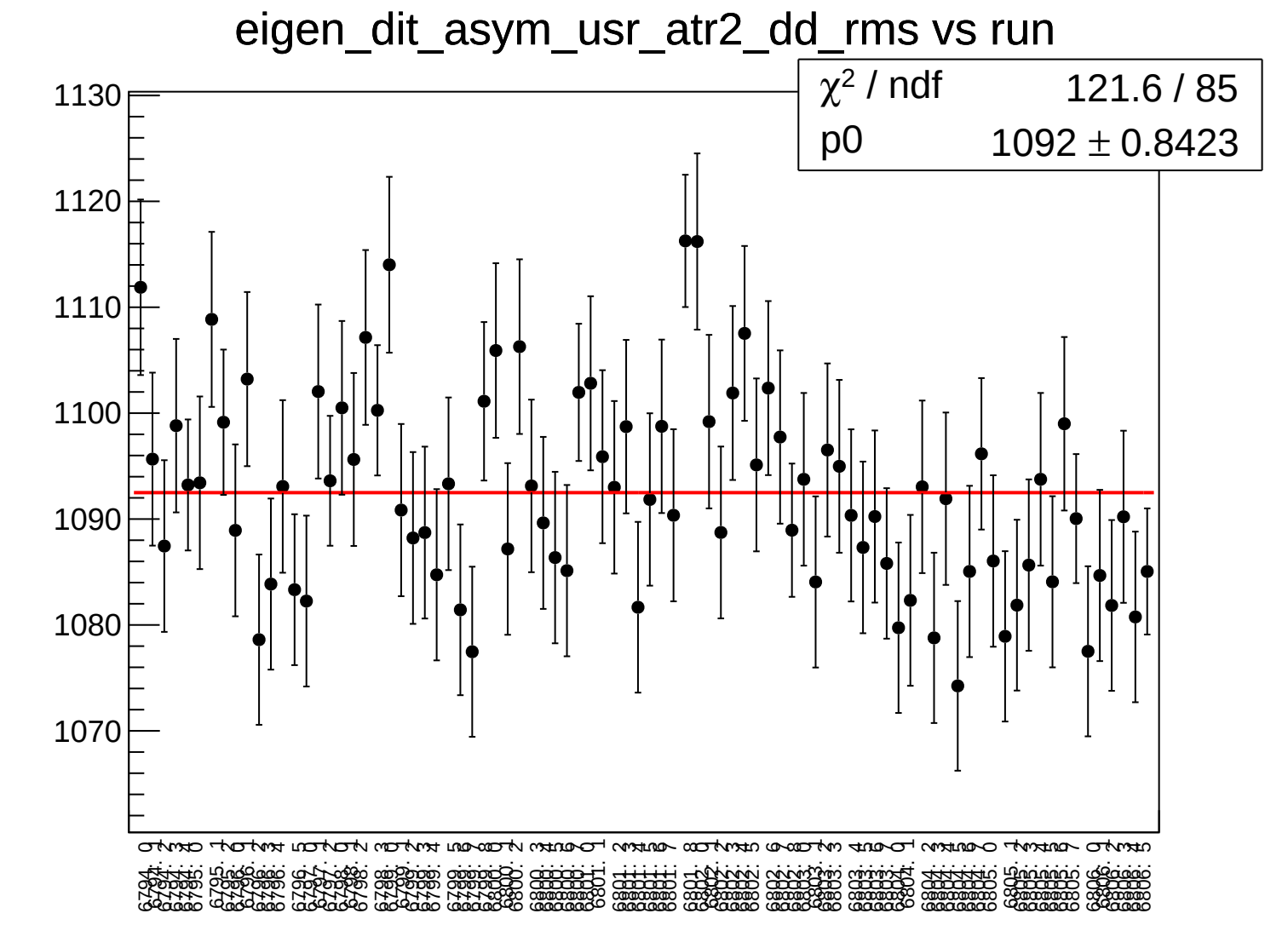

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.6 / 85
p0 1092 ± 0.8423
1130
1120
1110
1100
1090
1080
1070

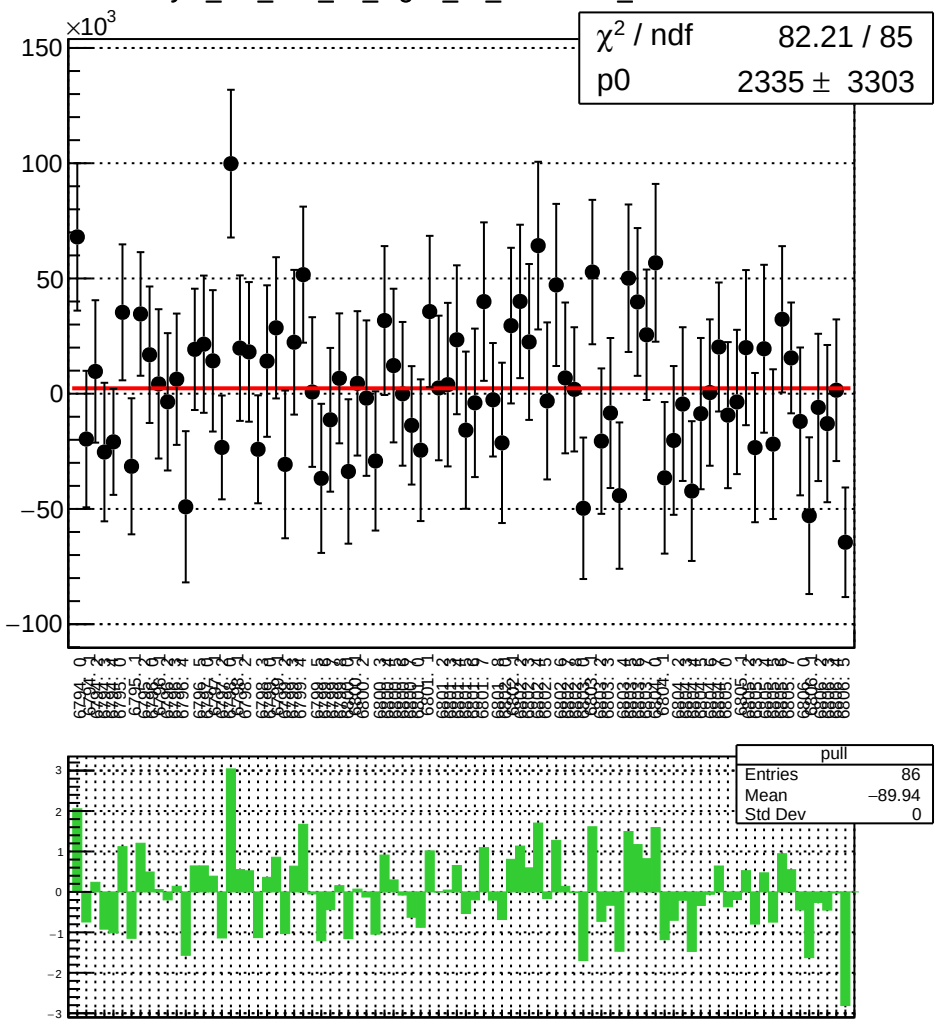

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.21 / 85
p0 2335 ± 3303
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.94
Std Dev 0
3
2
1
0
−1
−2
−3

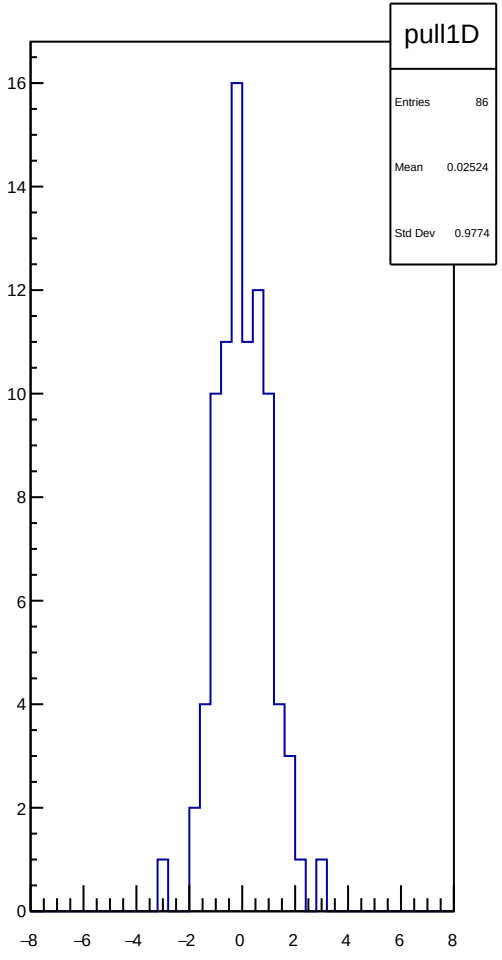

pull1D
Entries 86
Mean 0.02524
Std Dev 0.9774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

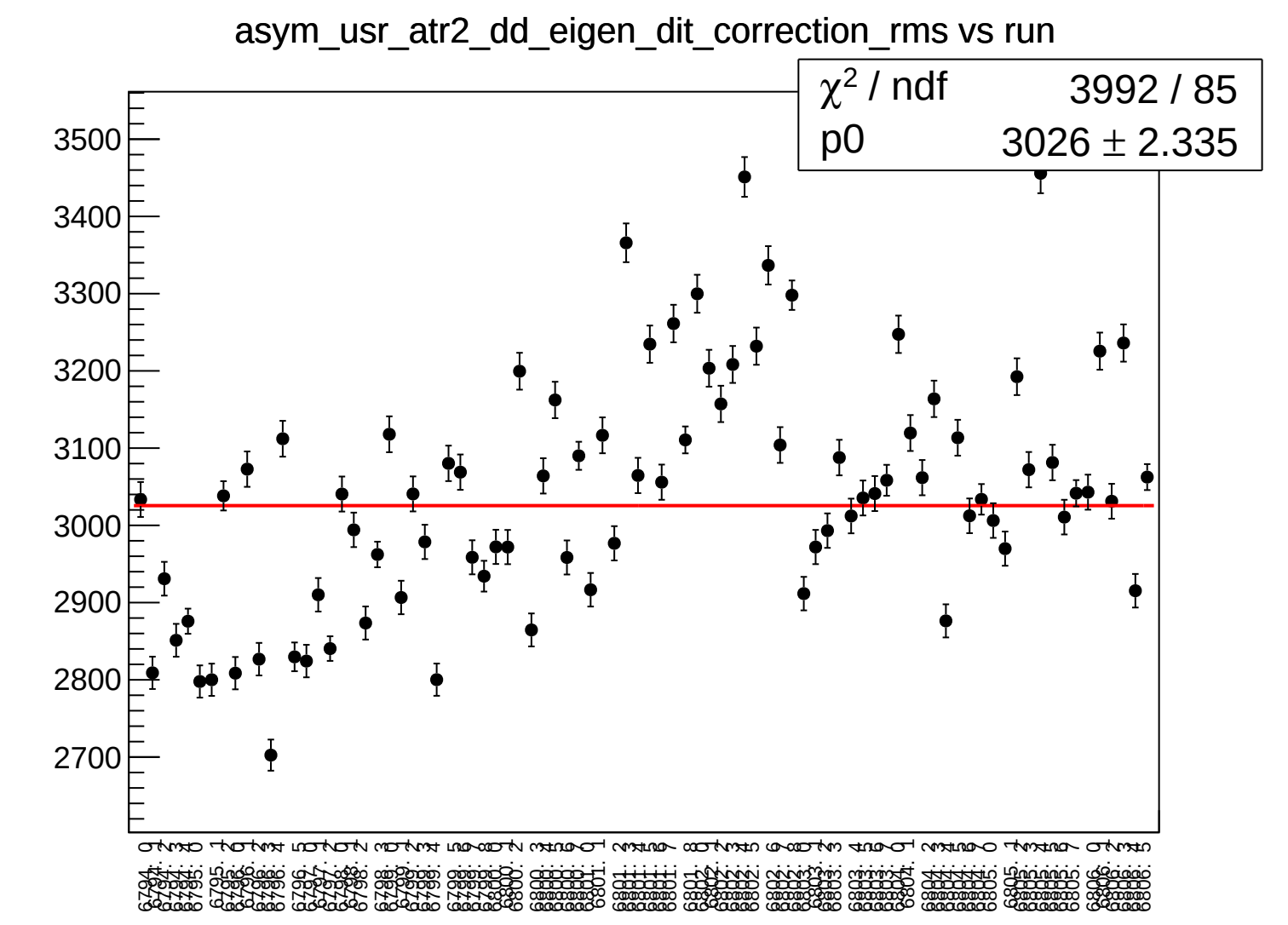

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 3992 / 85
p0 3026 ± 2.335
3500
3400
3300
3200
3100
3000
2900
2800
2700

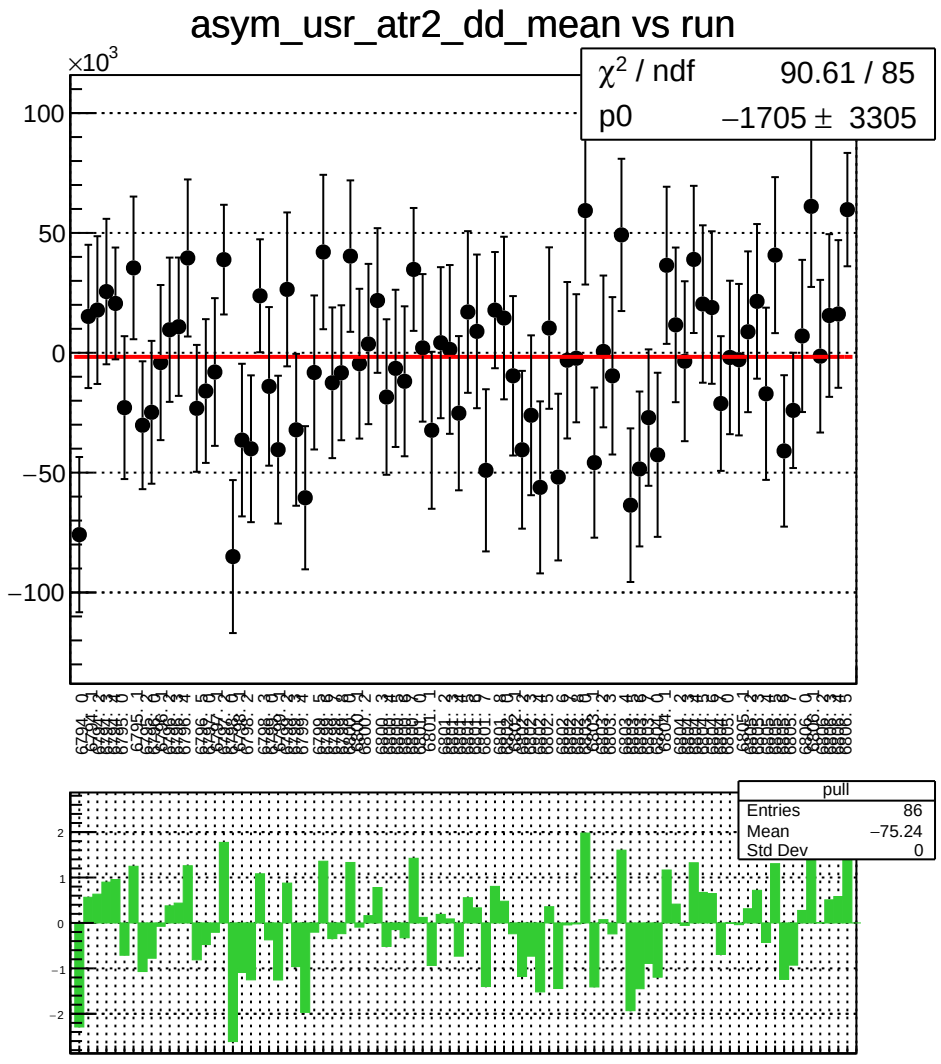

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 82.43 / 85
p0 722.6 ± 1191
pull
Entries 86
Mean 44.17
Std Dev 0
pull1D
Entries 86
Mean −0.01085
Std Dev 0.979

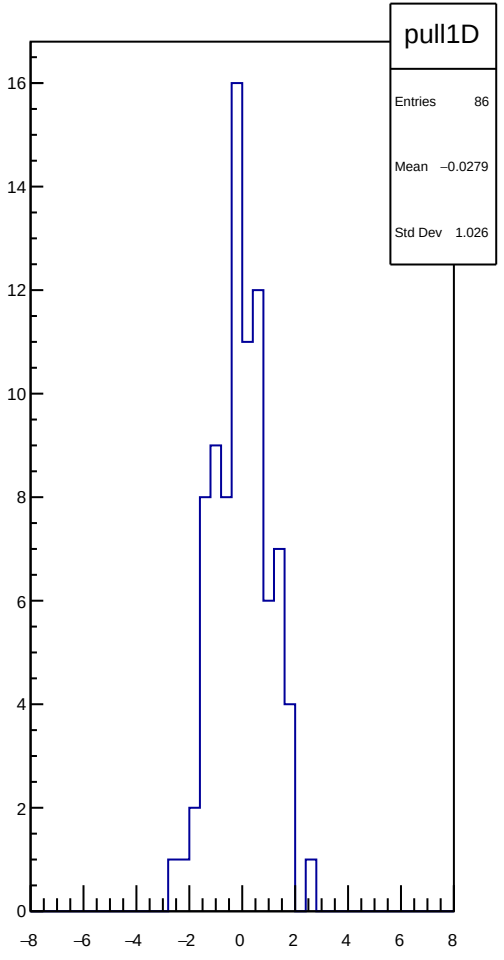

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 121.6 / 85
p0 1092 ± 0.8423
1130
1120
1110
1100
1090
1080
1070

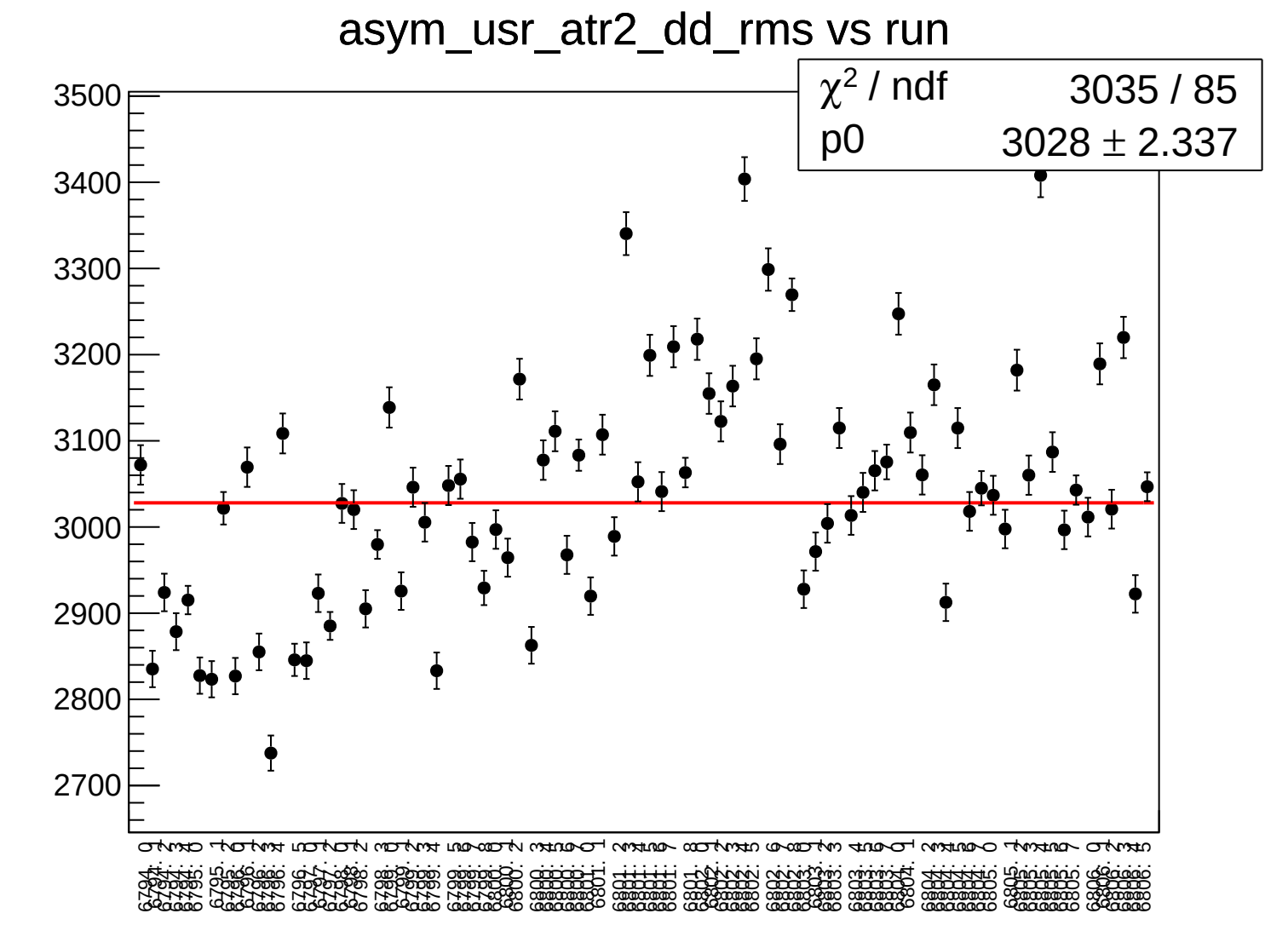

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.21 / 85
p0 2335 ± 3303
150
100
50
0
−50
−100
pull
Entries 86
Mean −89.94
Std Dev 0
3
2
1
0
−1
−2
−3

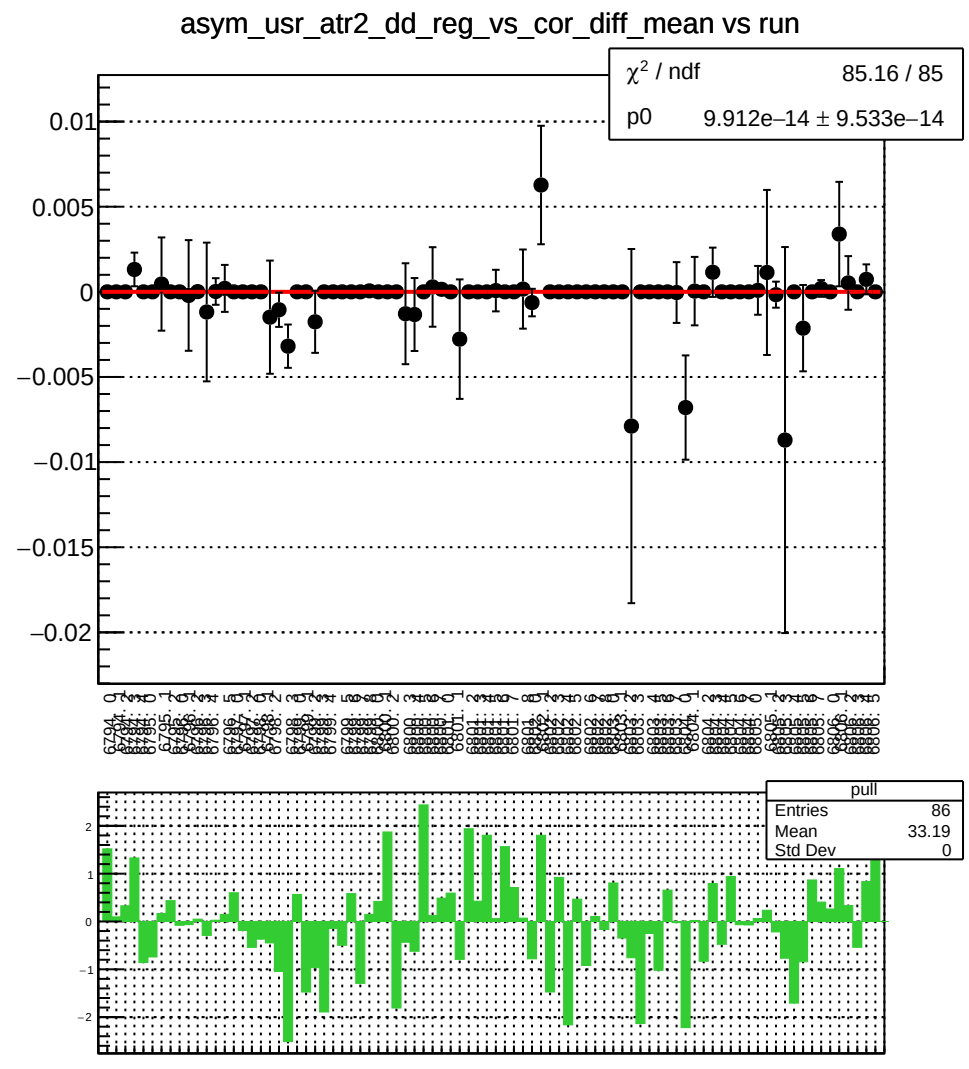

pull1D
Entries 86
Mean 0.02524
Std Dev 0.9774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

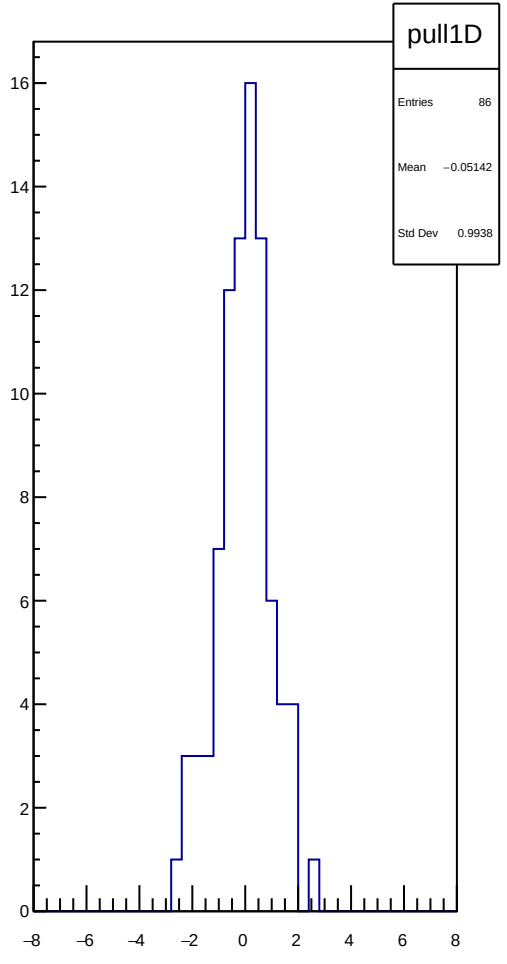

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3992 / 85
p0 3026 ± 2.335
3500
3400
3300
3200
3100
3000
2900
2800
2700

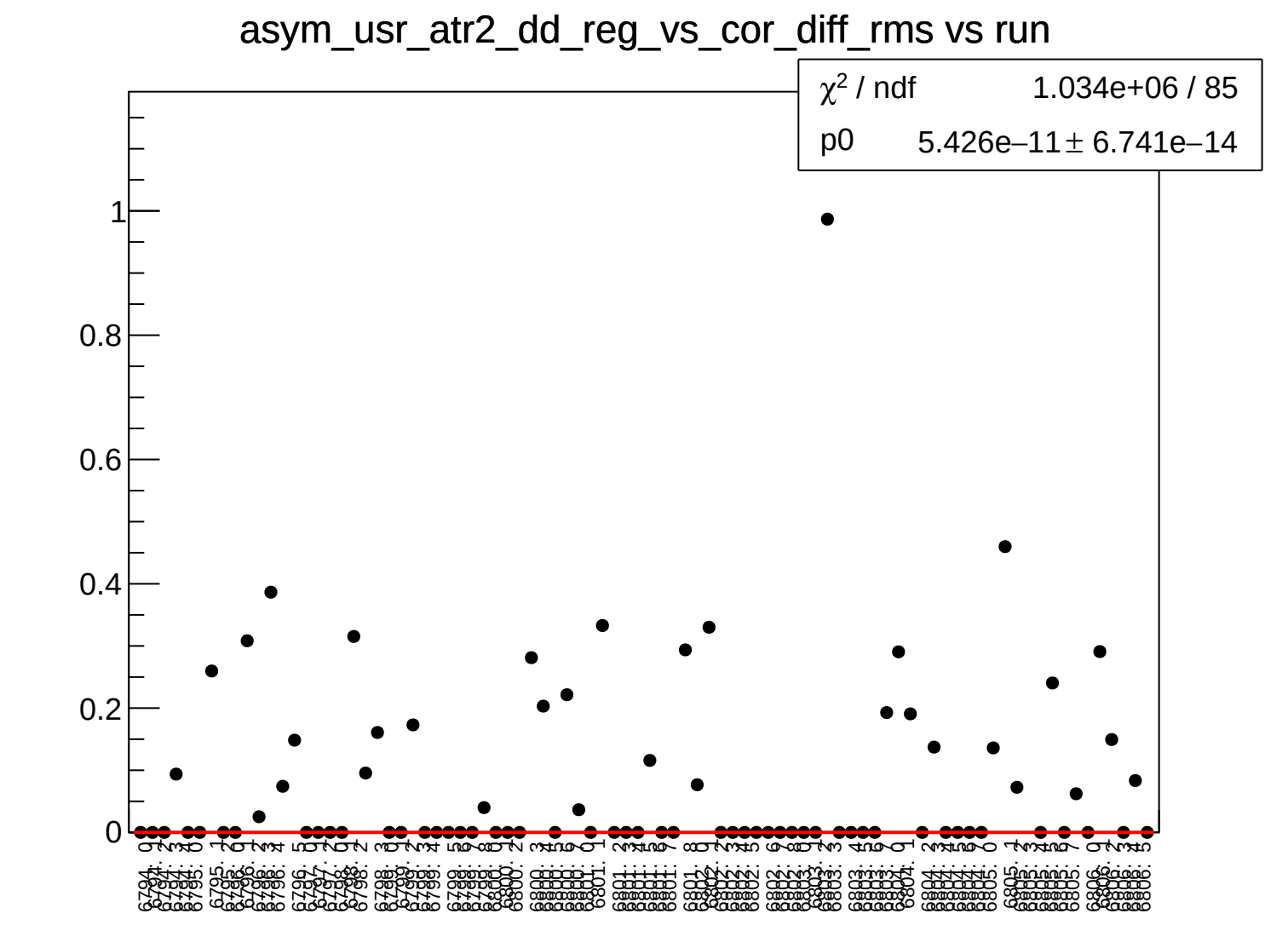

asym_usr_atr2_dd_mean vs run
×10^3
χ^2 / ndf 90.61 / 85
p0 −1705 ± 3305
100
50
0
−50
−100
pull
Entries 86
Mean −75.24
Std Dev 0
2
1
0
−1
−2

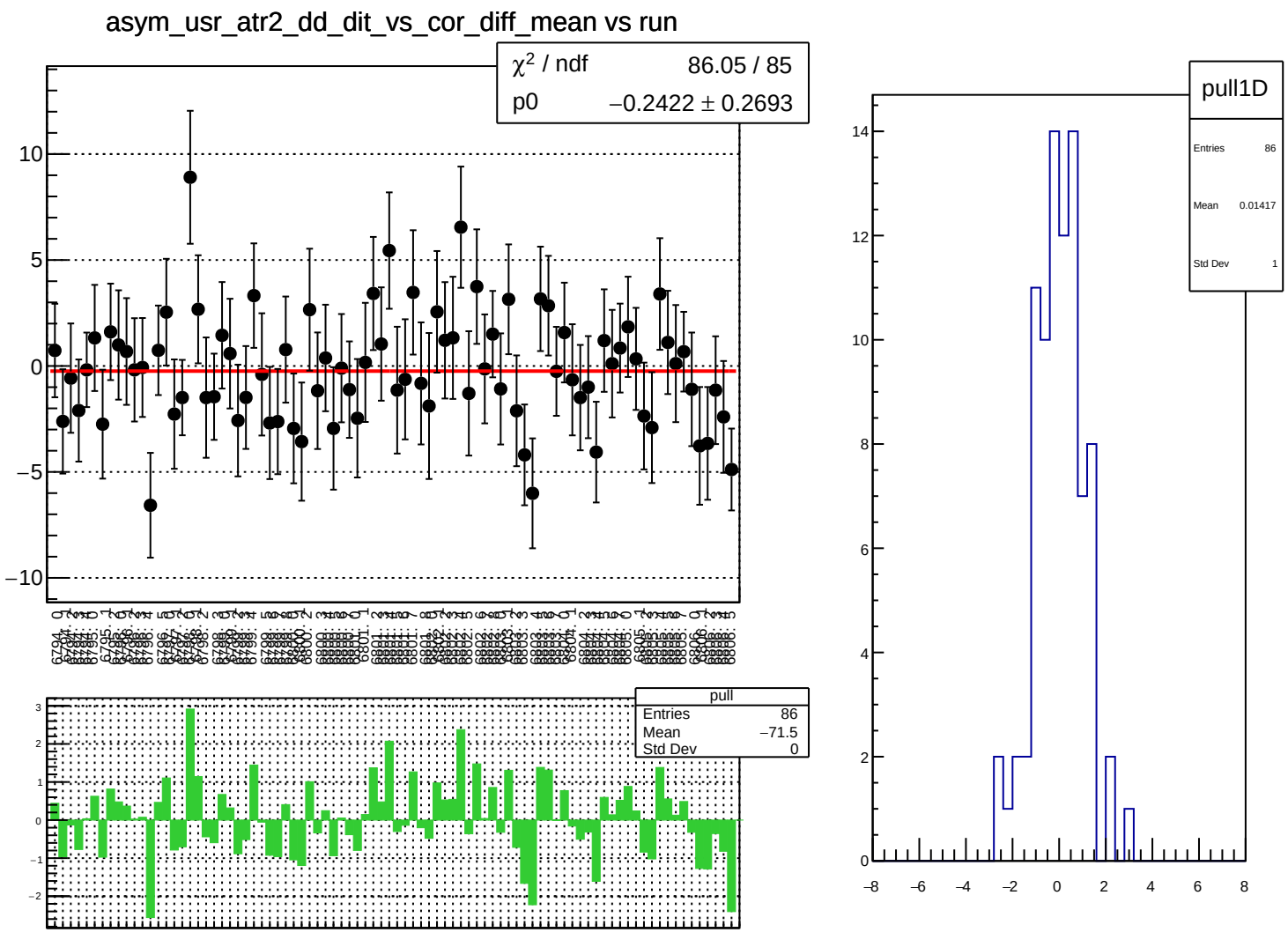

pull1D
Entries 86
Mean −0.0279
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

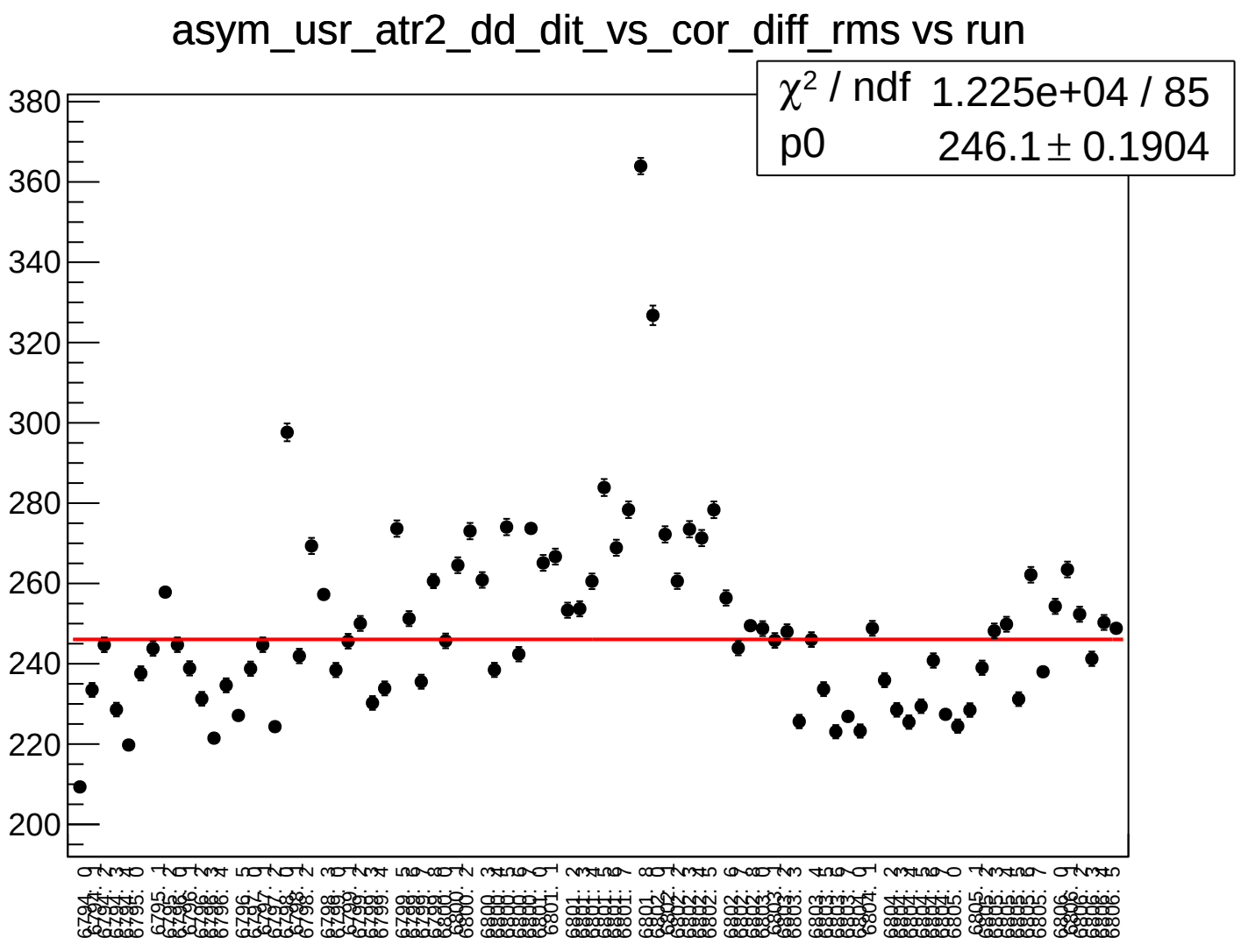

asym_usr_atr2_dd_rms vs run
χ² / ndf 3035 / 85
p0 3028 ± 2.337
3500
3400
3300
3200
3100
3000
2900
2800
2700

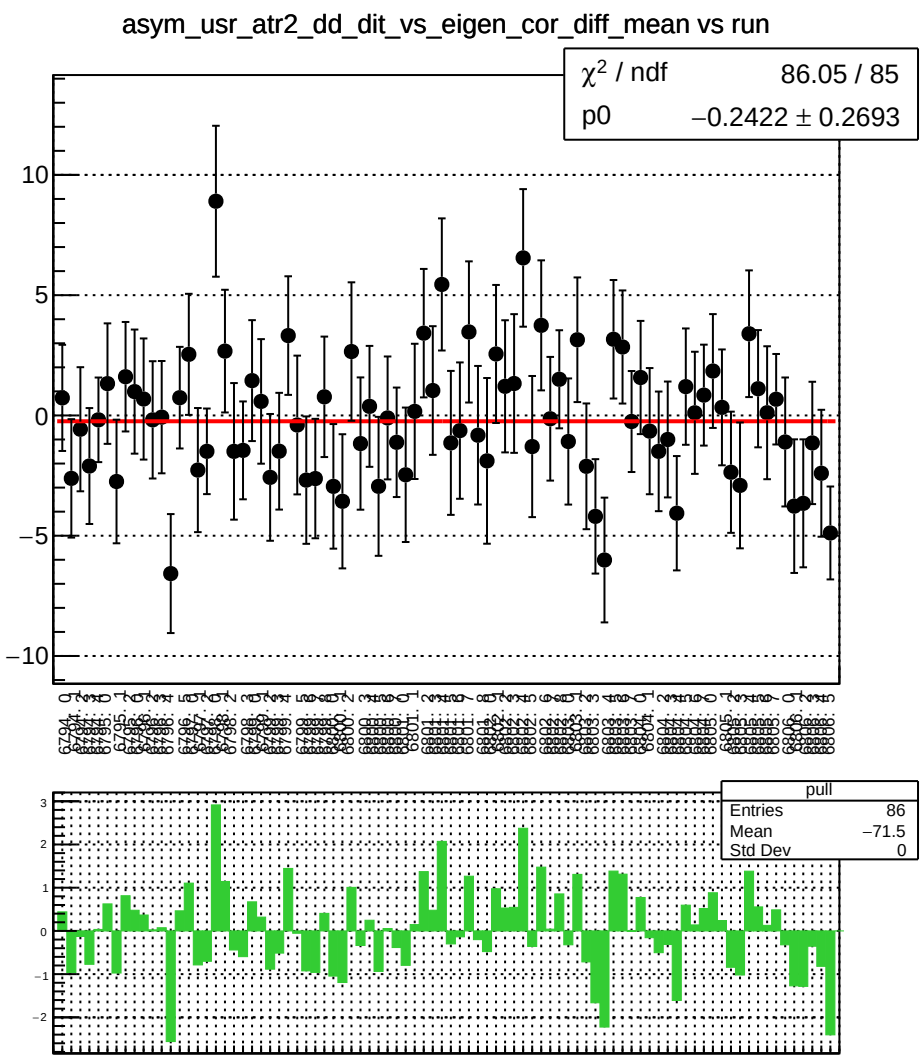

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.16 / 85
p0 9.912e−14 ± 9.533e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean 33.19
Std Dev 0
2
1
0
−1
−2

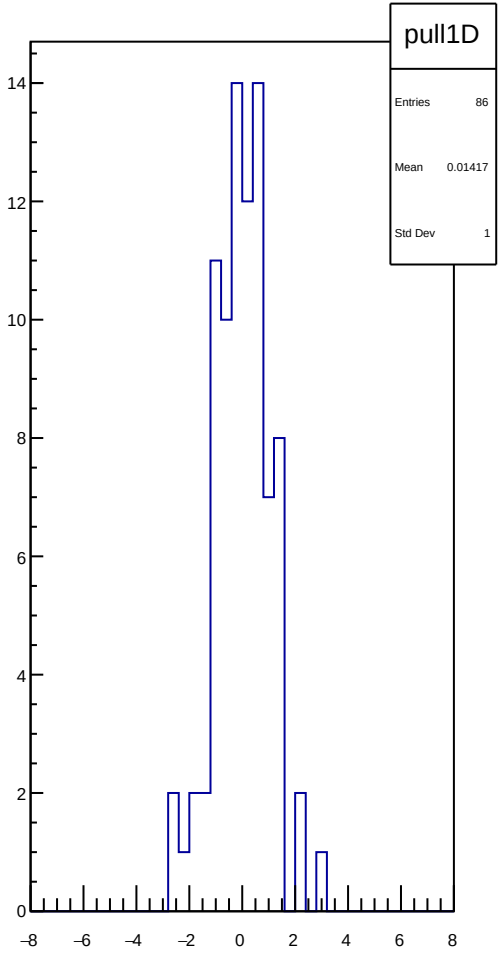

pull1D
Entries 86
Mean −0.05142
Std Dev 0.9938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

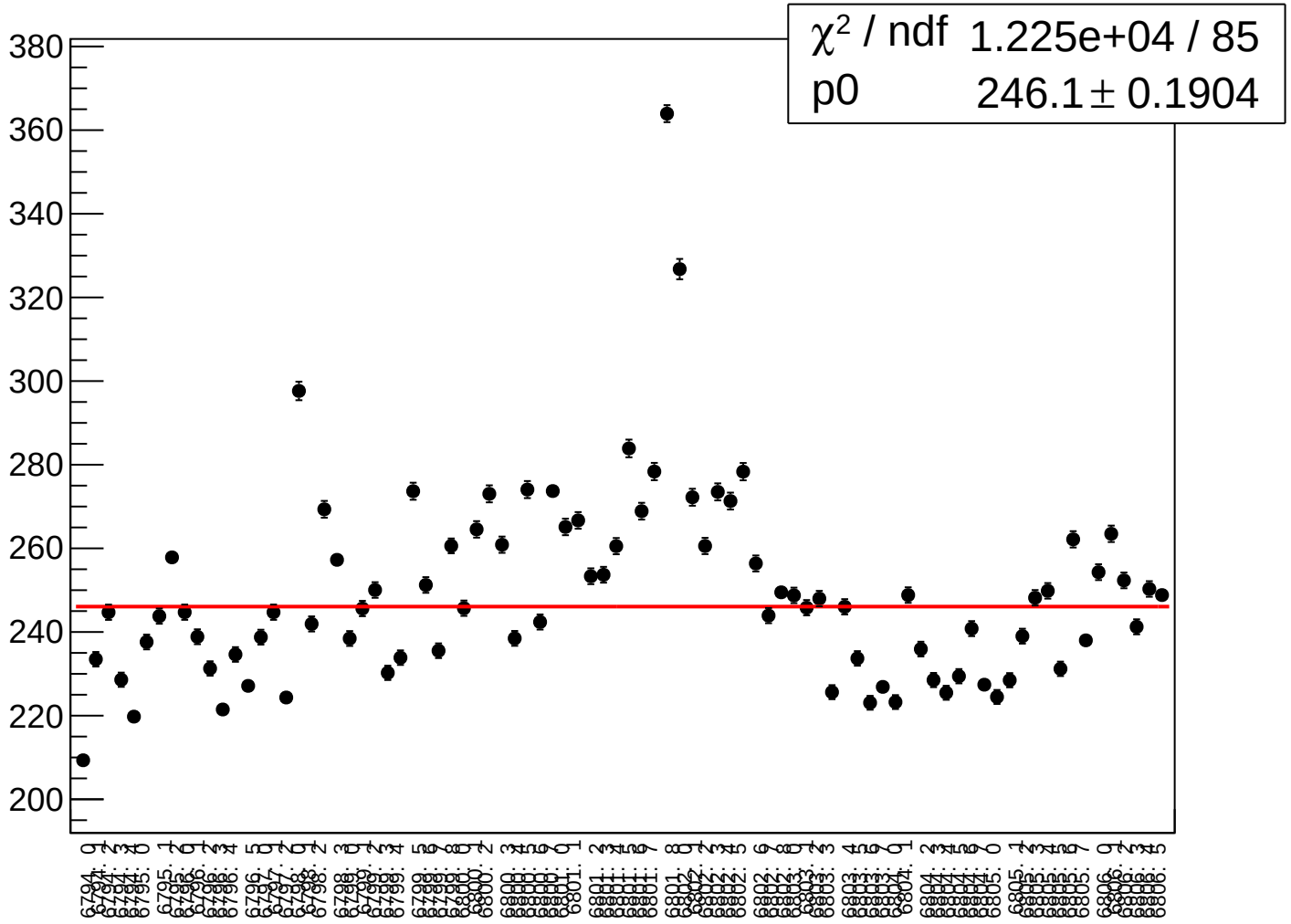

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 85
p0 5.426e−11 ± 6.741e−14
1
0.8
0.6
0.4
0.2
0

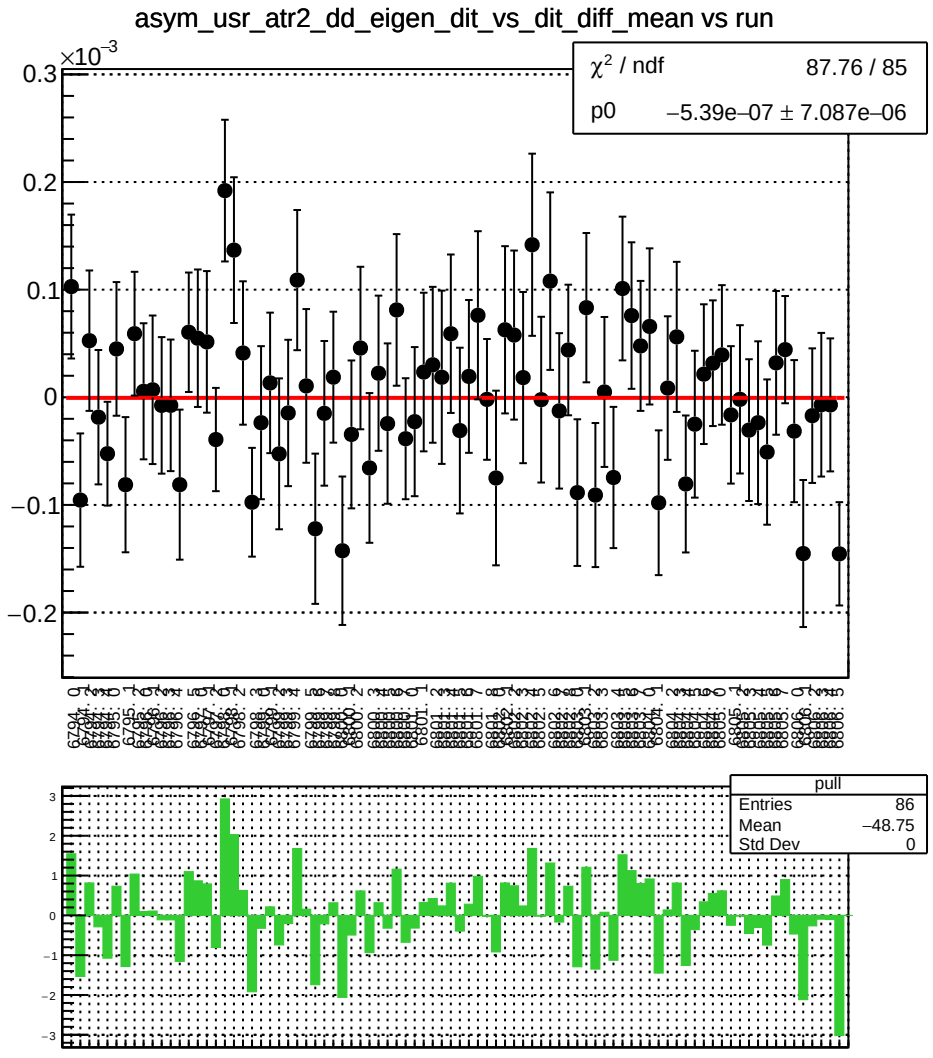

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 85
p0 −0.2422 ± 0.2693
pull
Entries 86
Mean −71.5
Std Dev 0
pull1D
Entries 86
Mean 0.01417
Std Dev 1

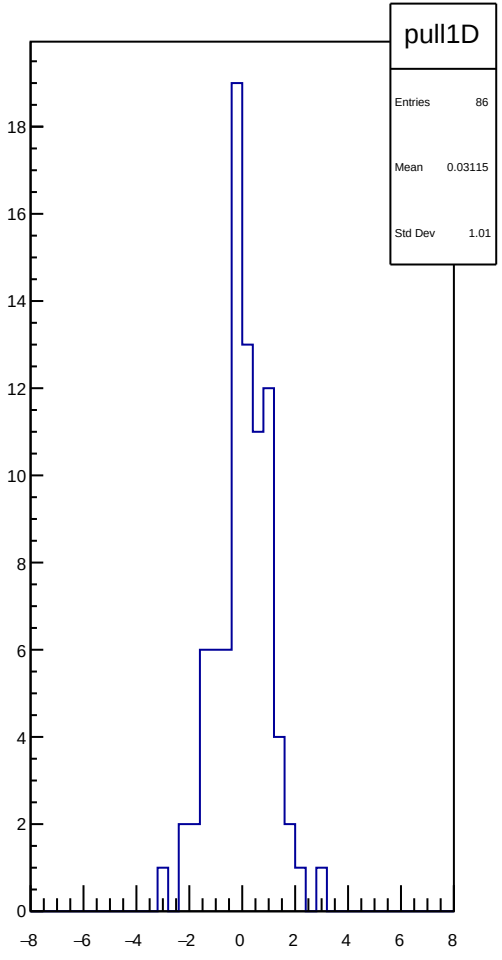

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 85
p0 246.1 ± 0.1904
380
360
340
320
300
280
260
240
220
200

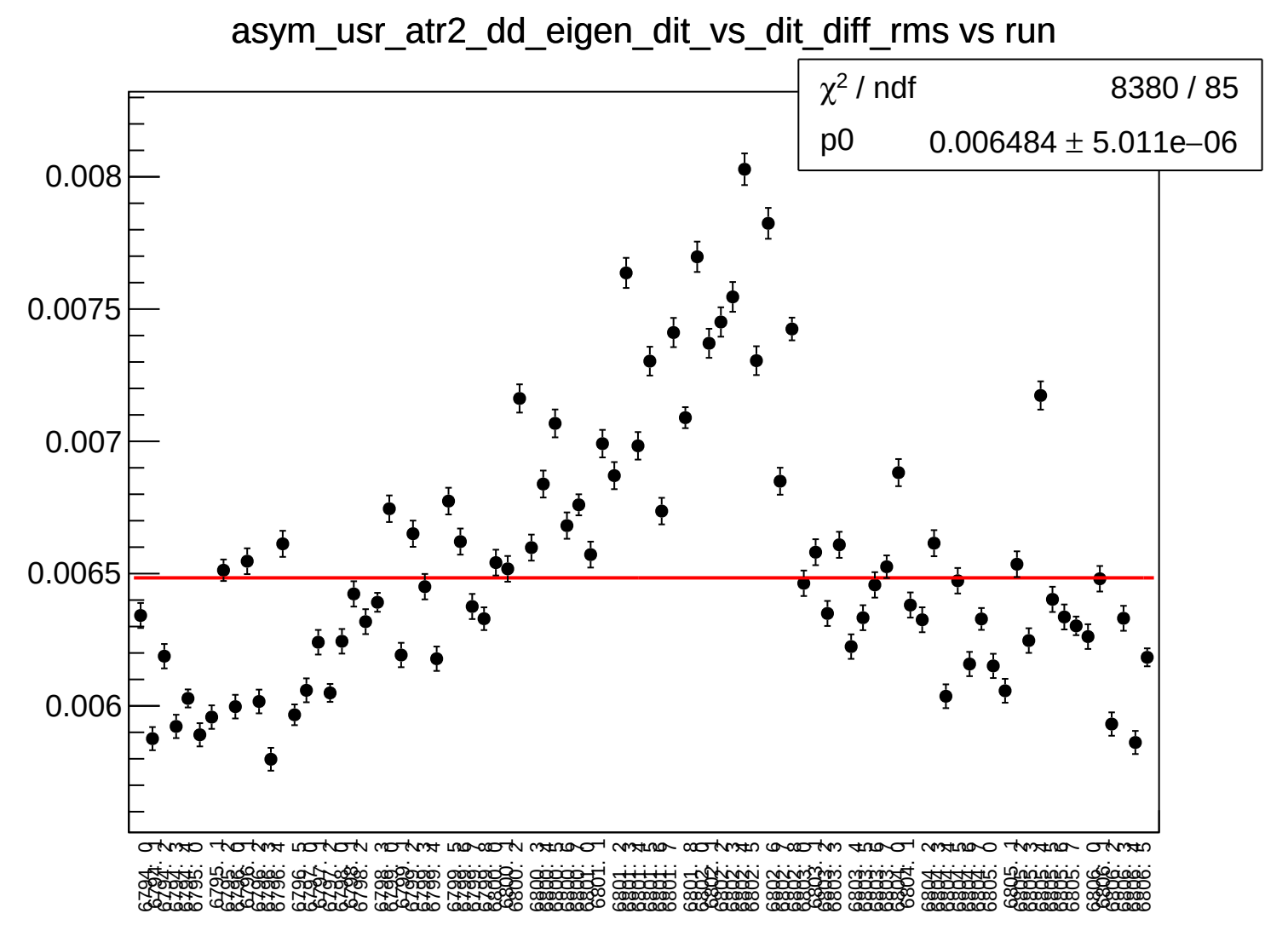

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 85
p0 −0.2422 ± 0.2693
pull
Entries 86
Mean −71.5
Std Dev 0

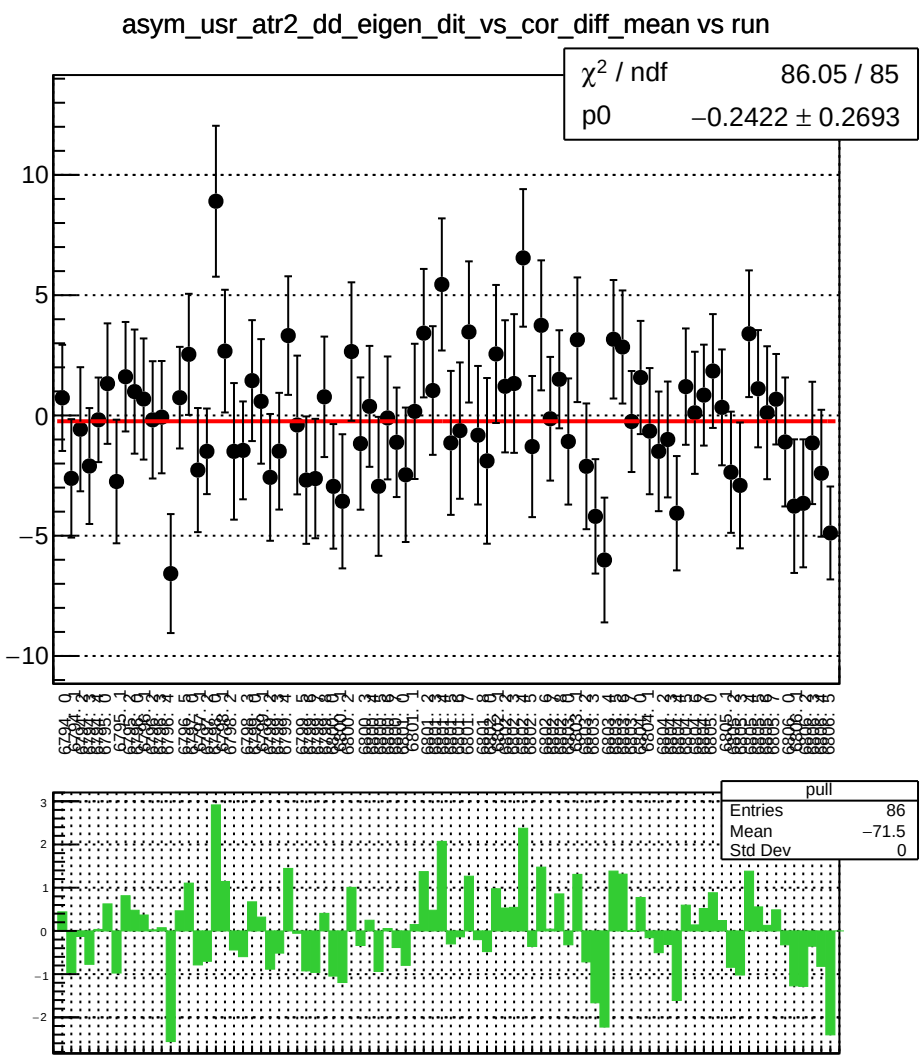

pull1D
Entries 86
Mean 0.01417
Std Dev 1

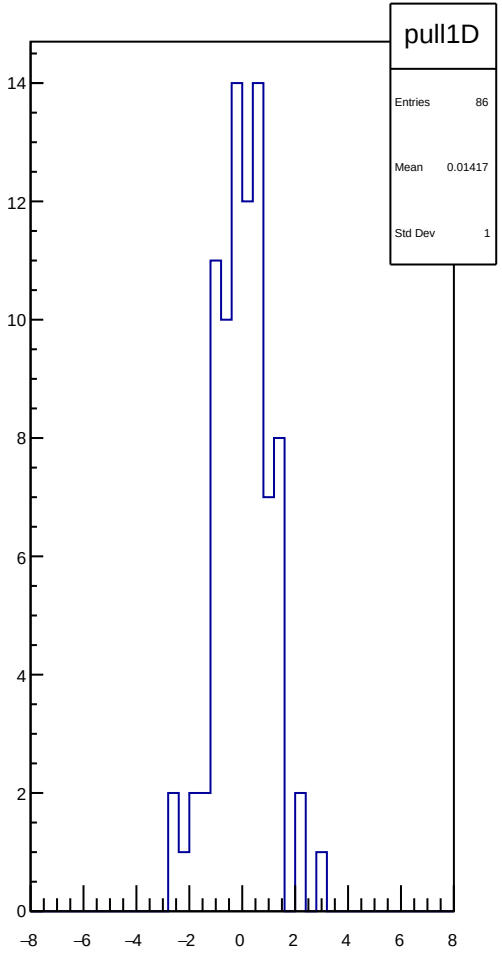

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 85
p0 246.1 ± 0.1904
380
360
340
320
300
280
260
240
220
200

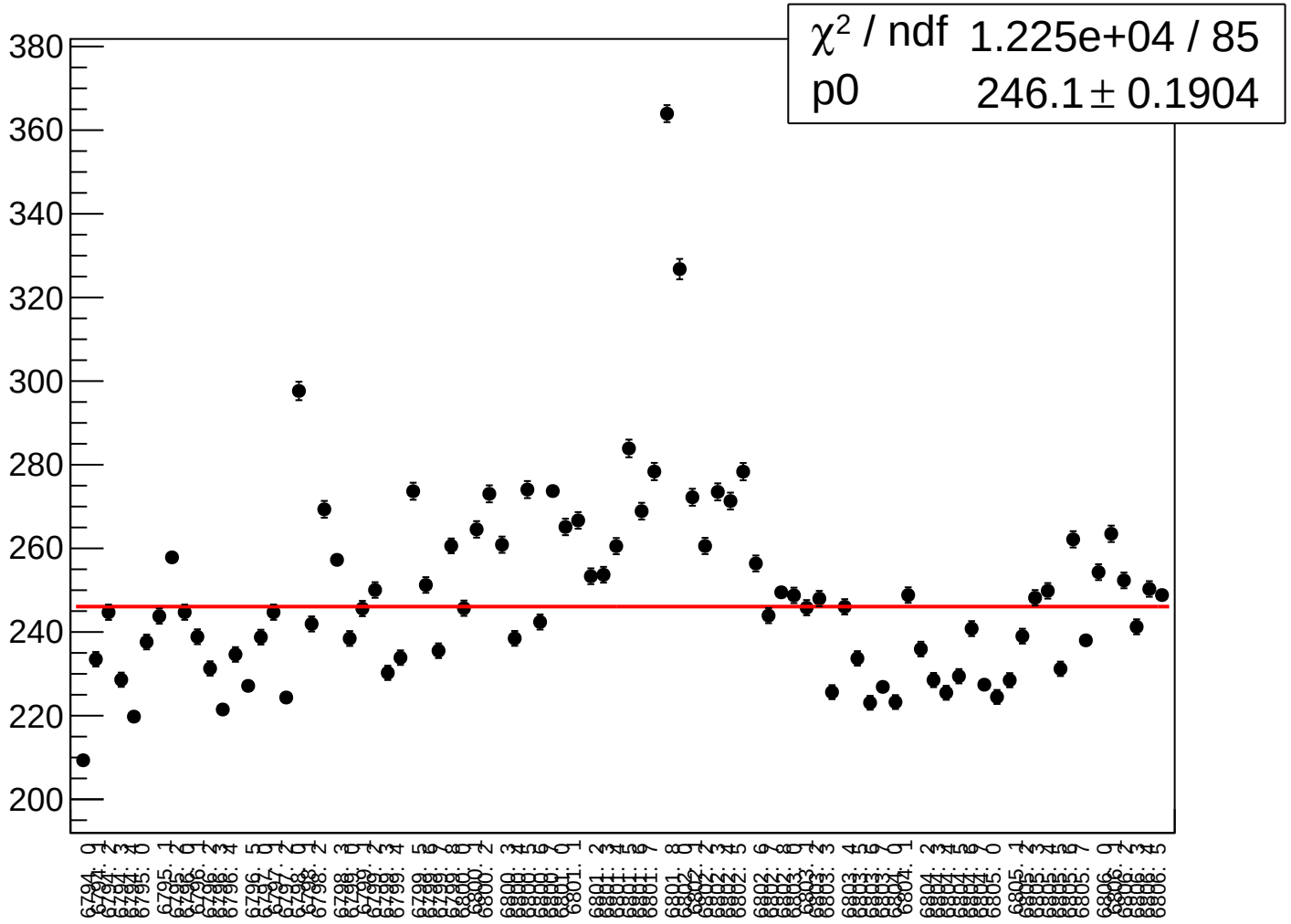

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.76 / 85
p0 −5.39e−07 ± 7.087e−06
pull
Entries 86
Mean −48.75
Std Dev 0

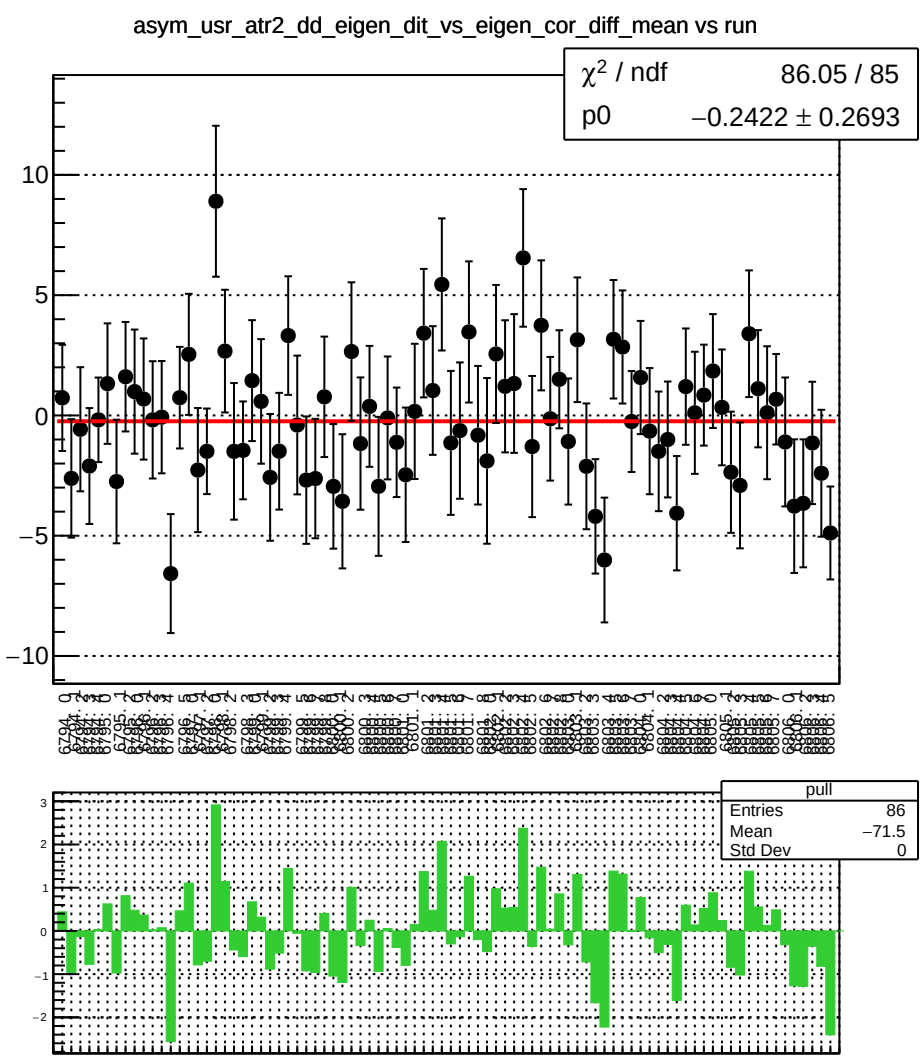

pull1D
Entries 86
Mean 0.03115
Std Dev 1.01

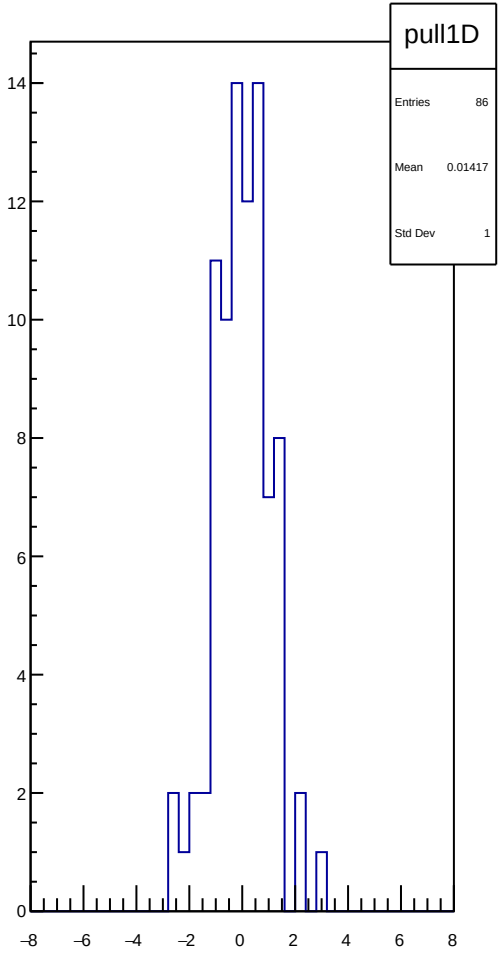

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8380 / 85
p0 0.006484 ± 5.011e−06
0.008
0.0075
0.007
0.0065
0.006

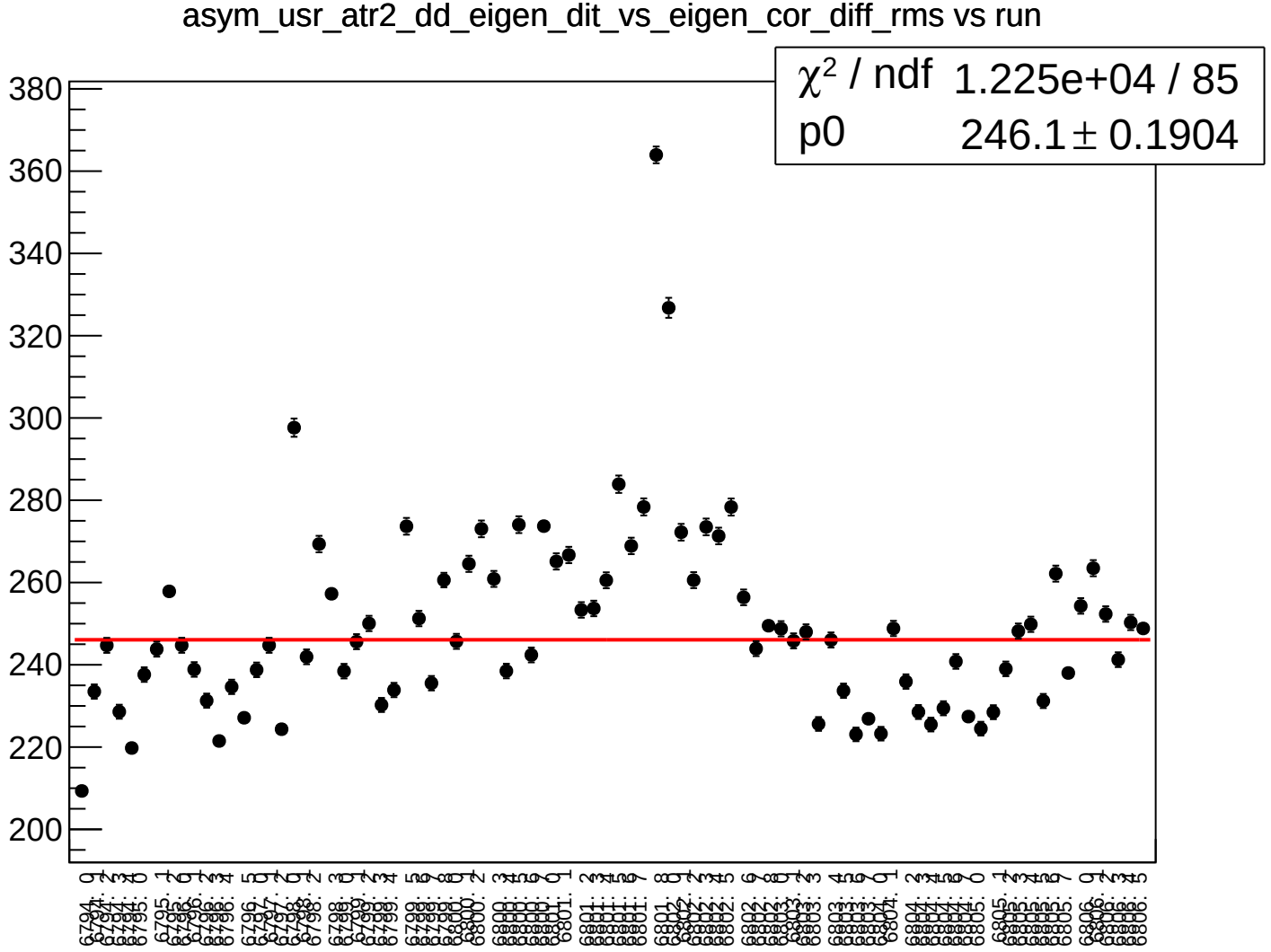

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.05 / 85
p0 −0.2422 ± 0.2693
pull
Entries 86
Mean −71.5
Std Dev 0

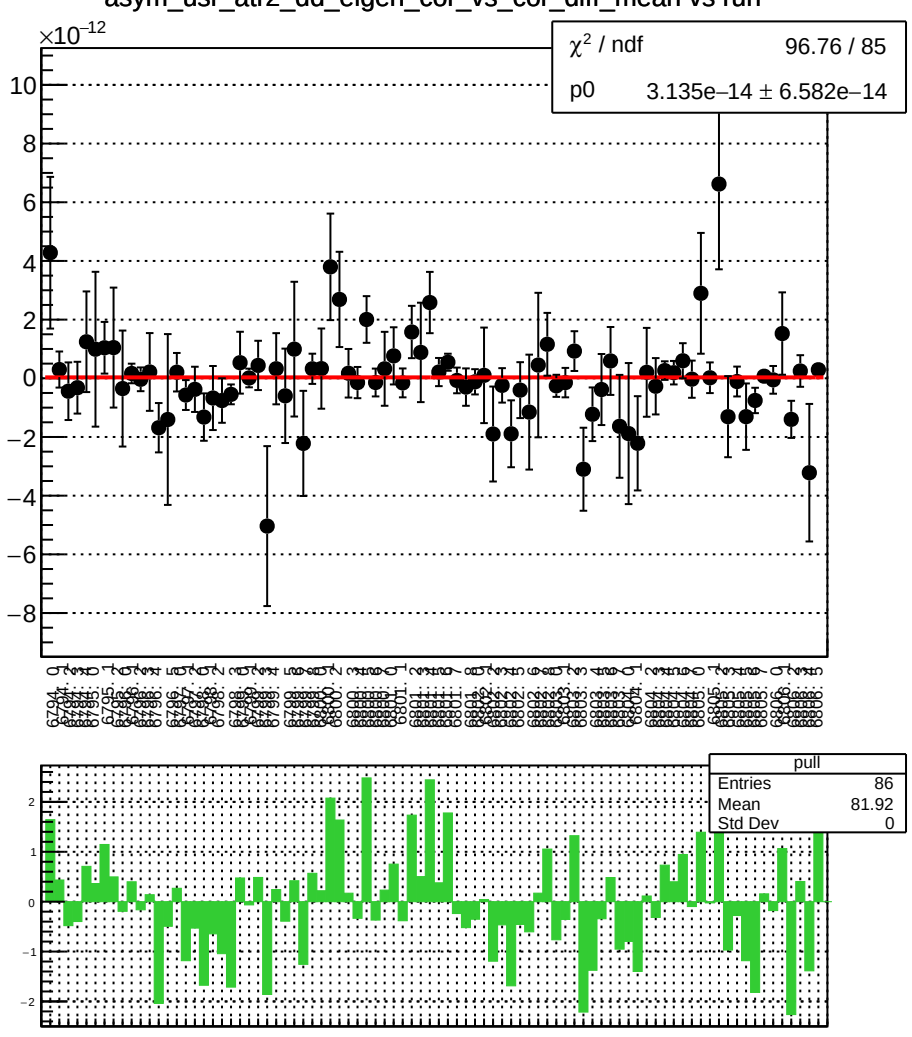

pull1D
Entries 86
Mean 0.01417
Std Dev 1

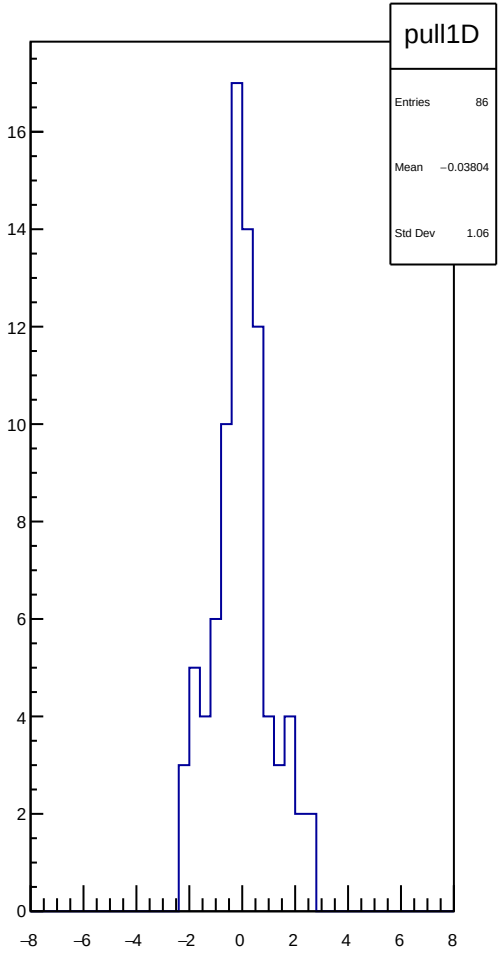

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 85
p0 246.1 ± 0.1904
380
360
340
320
300
280
260
240
220
200

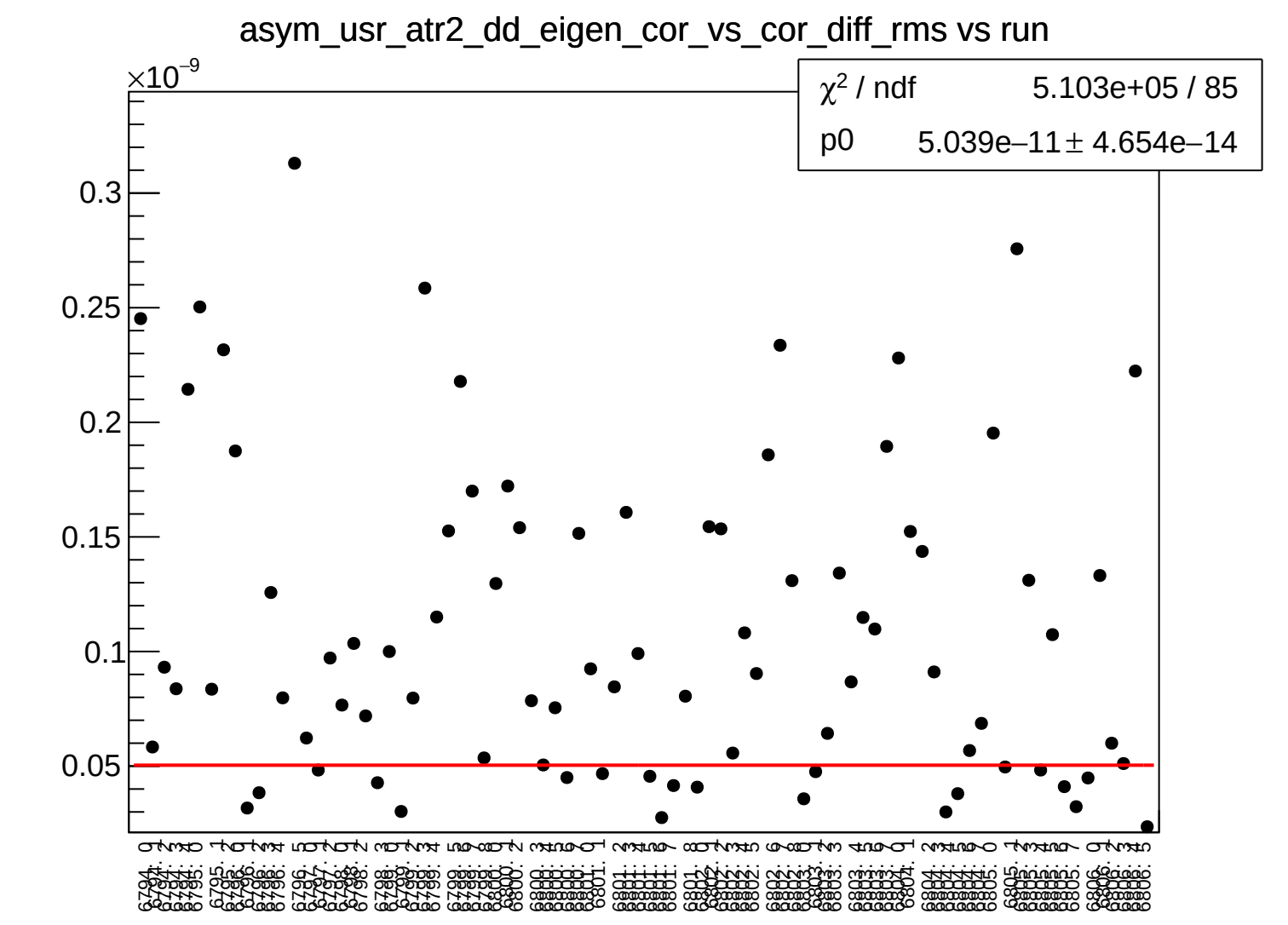

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.05 / 85
p0 −0.2422 ± 0.2693
pull
Entries 86
Mean −71.5
Std Dev 0

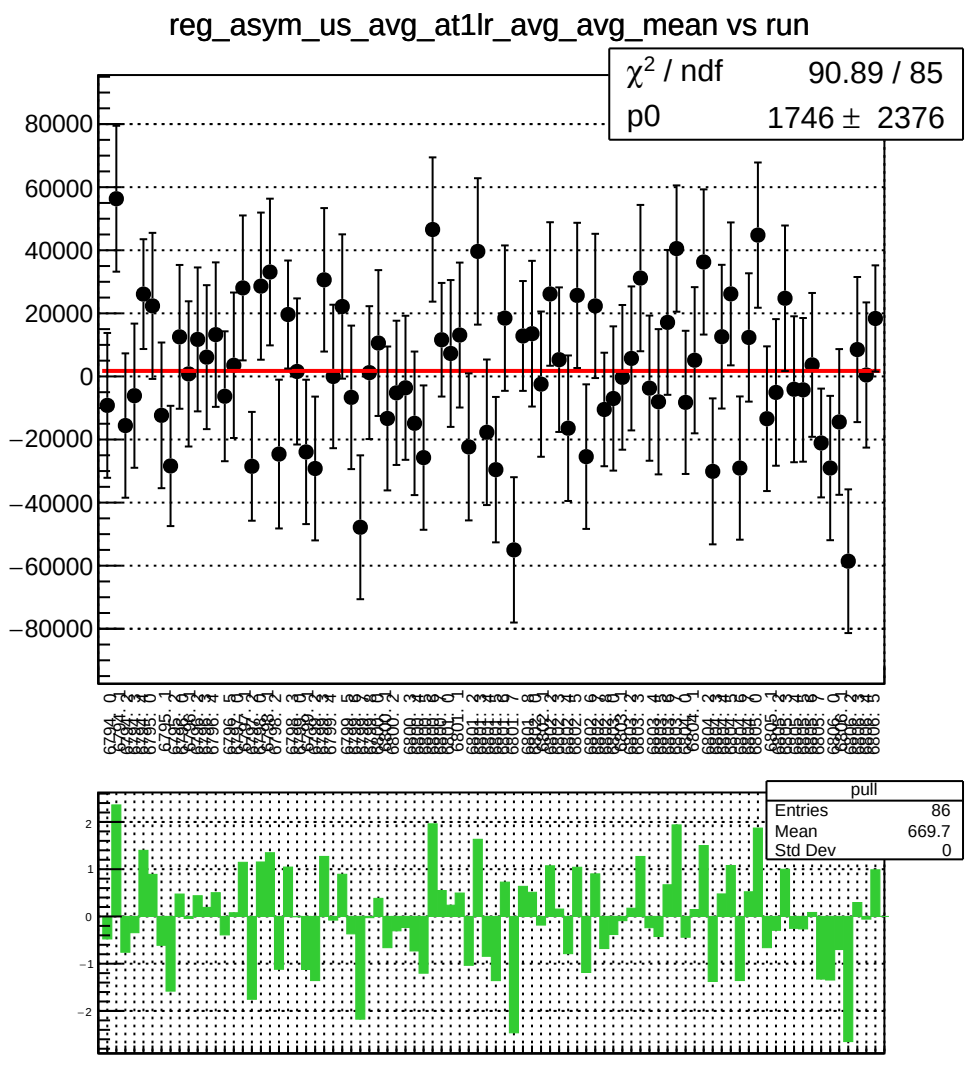

pull1D
Entries 86
Mean 0.01417
Std Dev 1

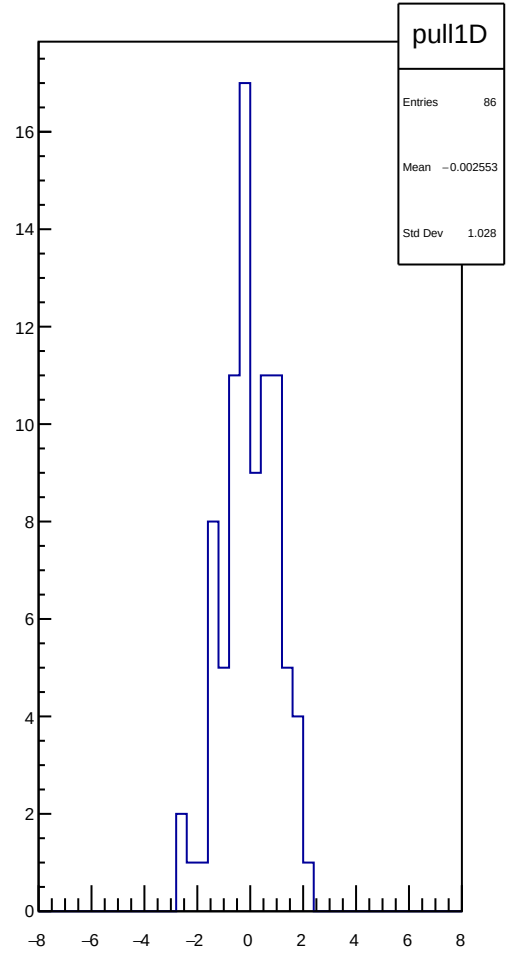

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.225e+04 / 85
p0 246.1 ± 0.1904
380
360
340
320
300
280
260
240
220
200

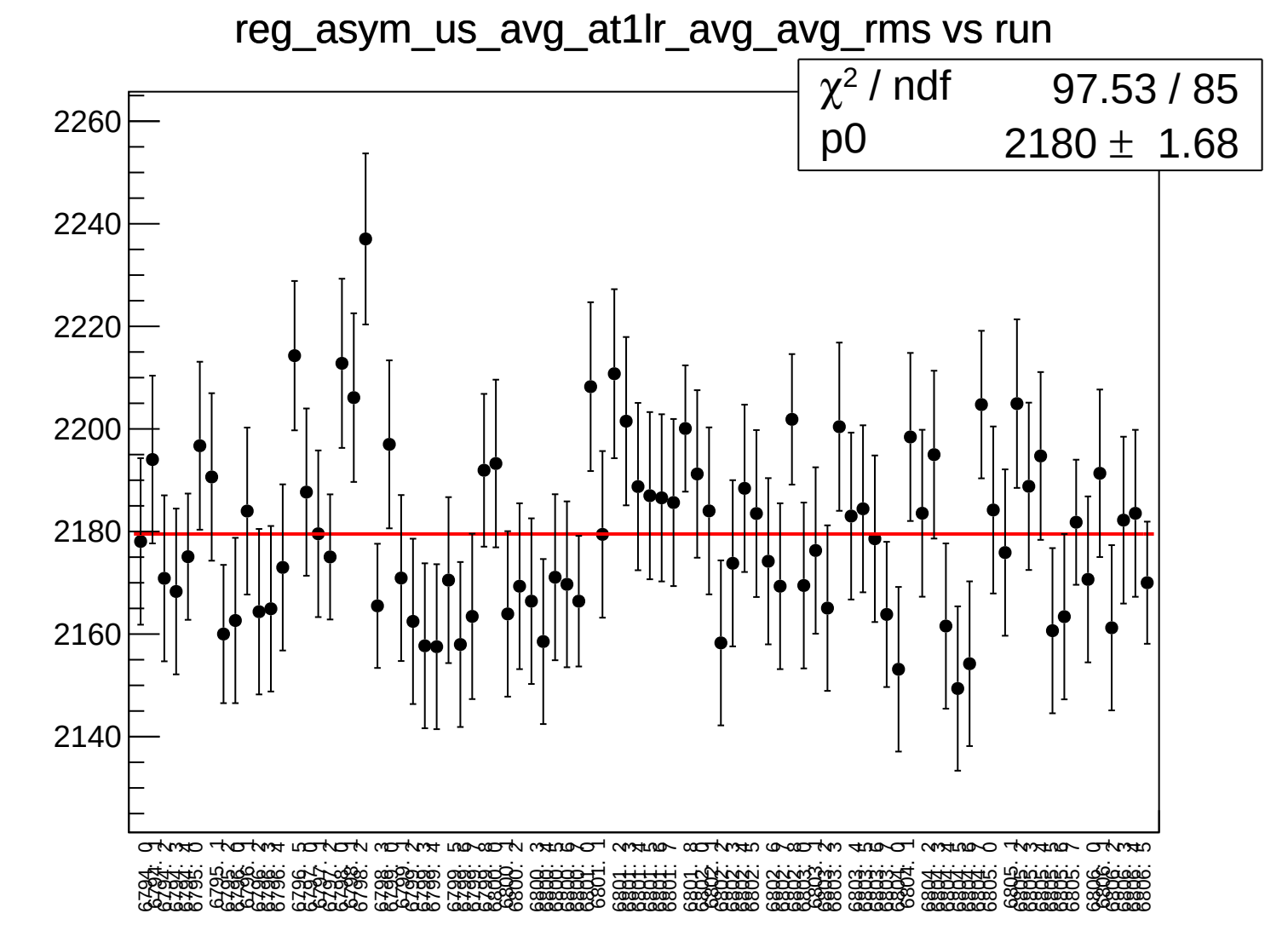

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.76 / 85
p0 3.135e−14 ± 6.582e−14
pull
Entries 86
Mean 81.92
Std Dev 0

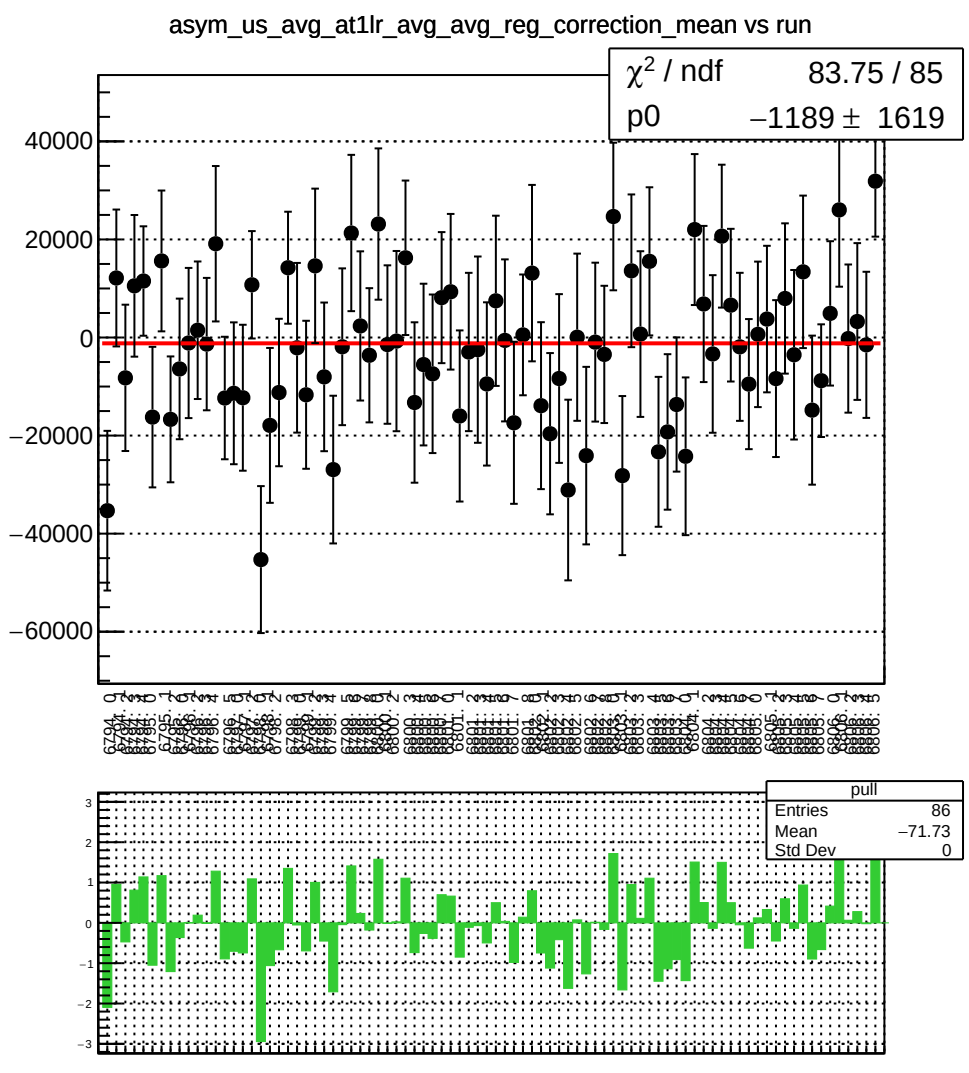

pull1D
Entries 86
Mean −0.03804
Std Dev 1.06

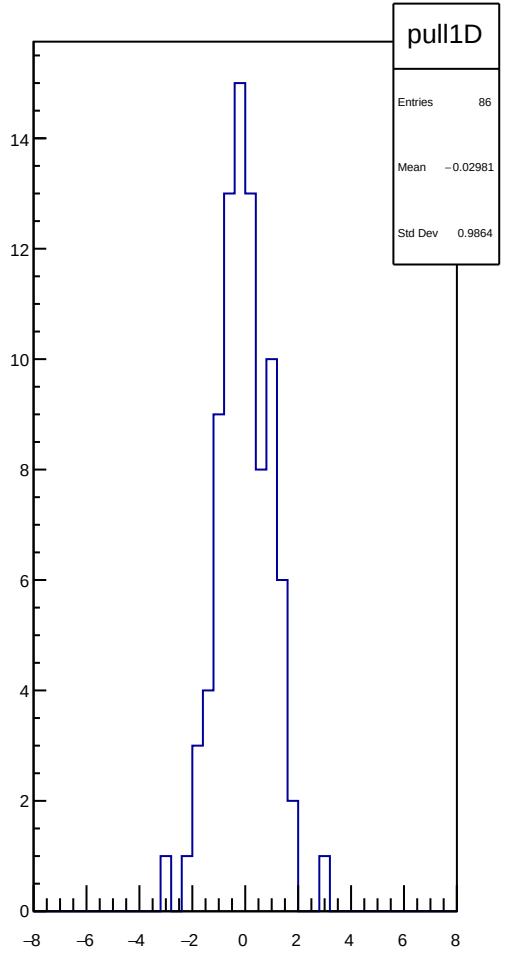

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.103e+05 / 85
p0 5.039e−11 ± 4.654e−14
0.3
0.25
0.2
0.15
0.1
0.05

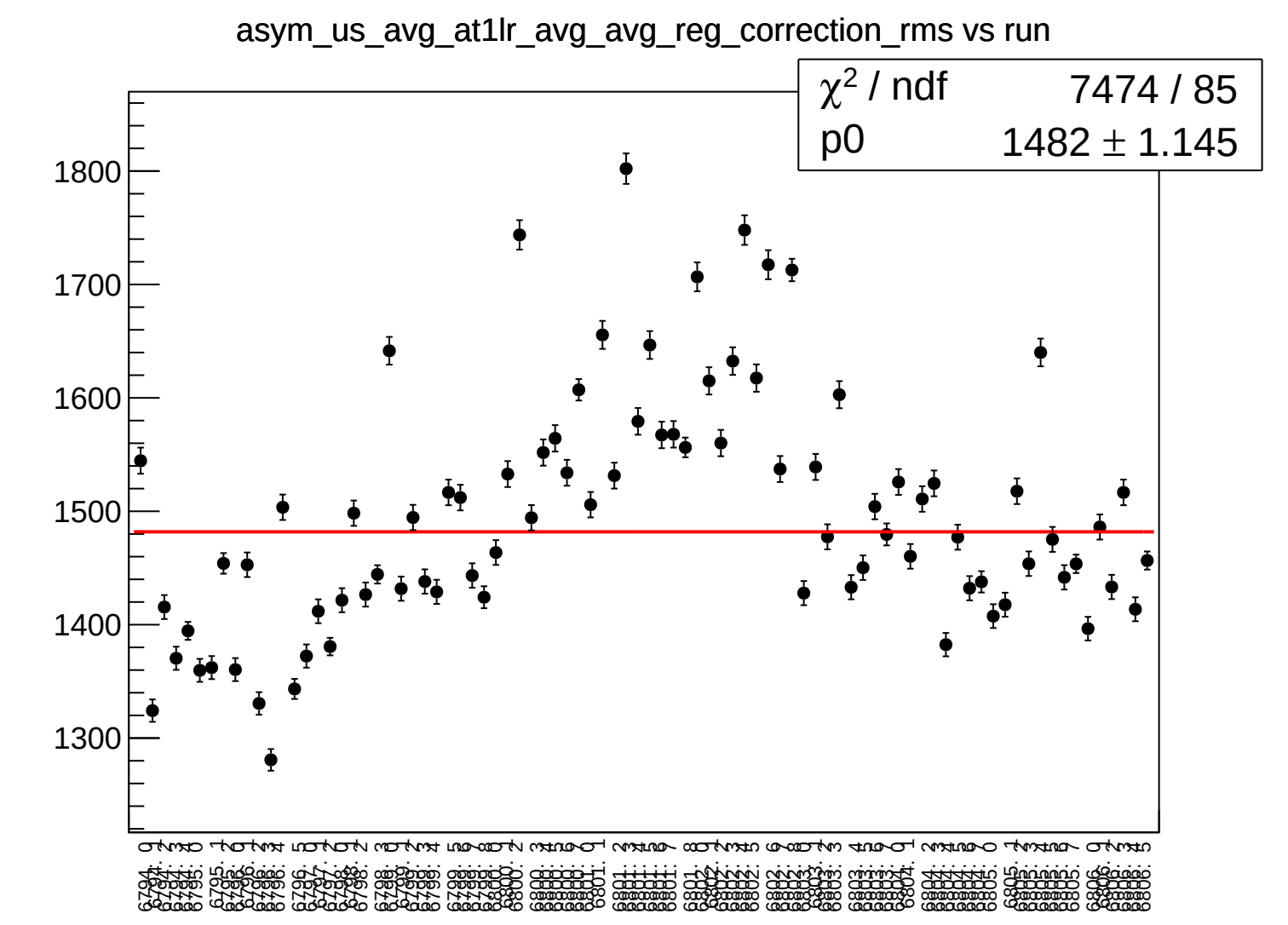

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.89 / 85
p0 1746 ± 2376
pull
Entries 86
Mean 669.7
Std Dev 0

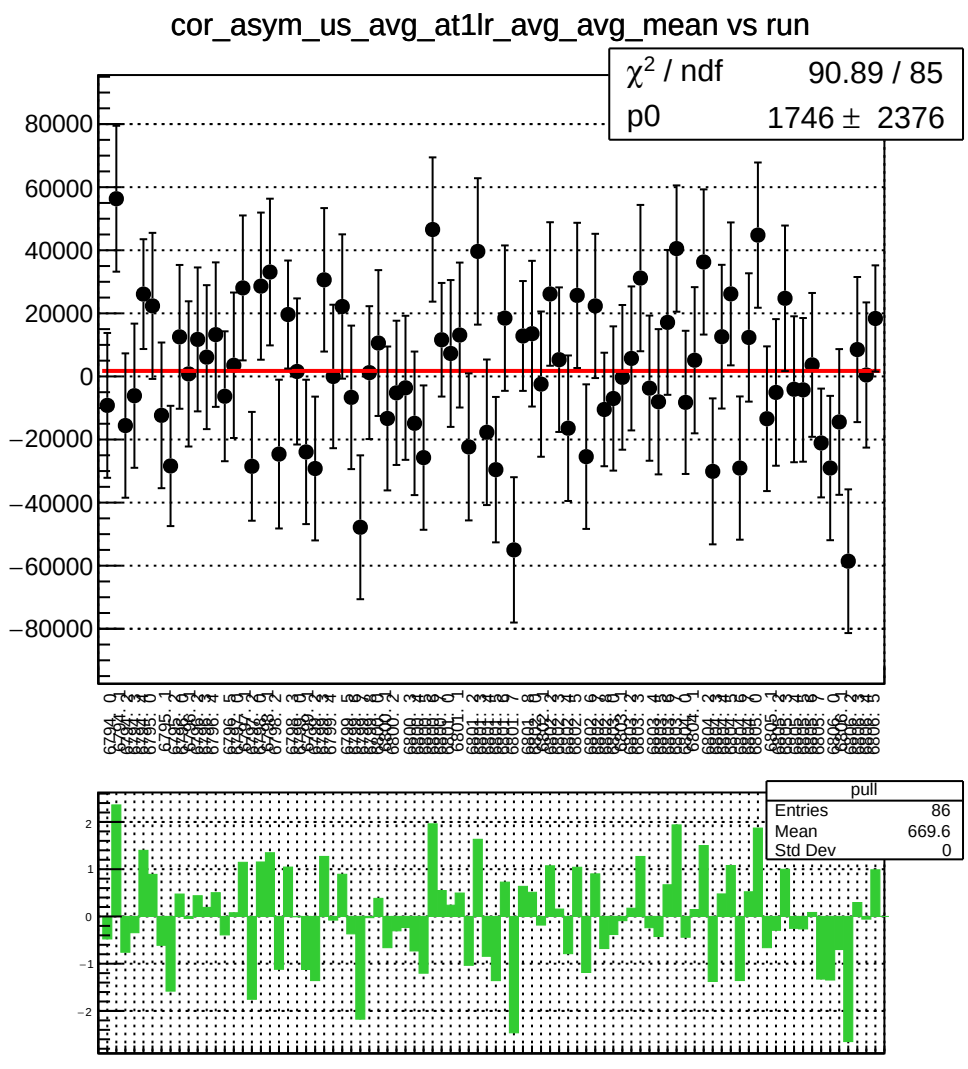

pull1D
Entries 86
Mean −0.002553
Std Dev 1.028

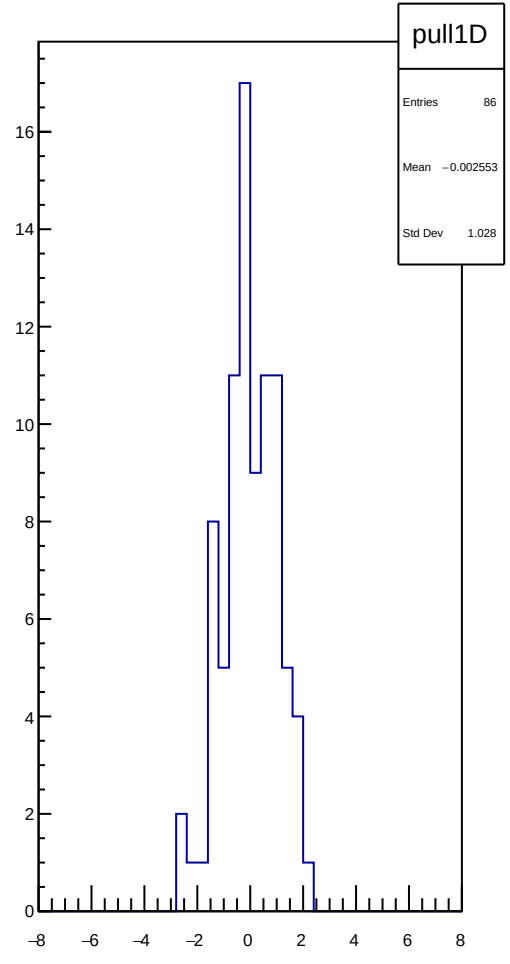

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 97.53 / 85
p0 2180 ± 1.68
2260
2240
2220
2200
2180
2160
2140

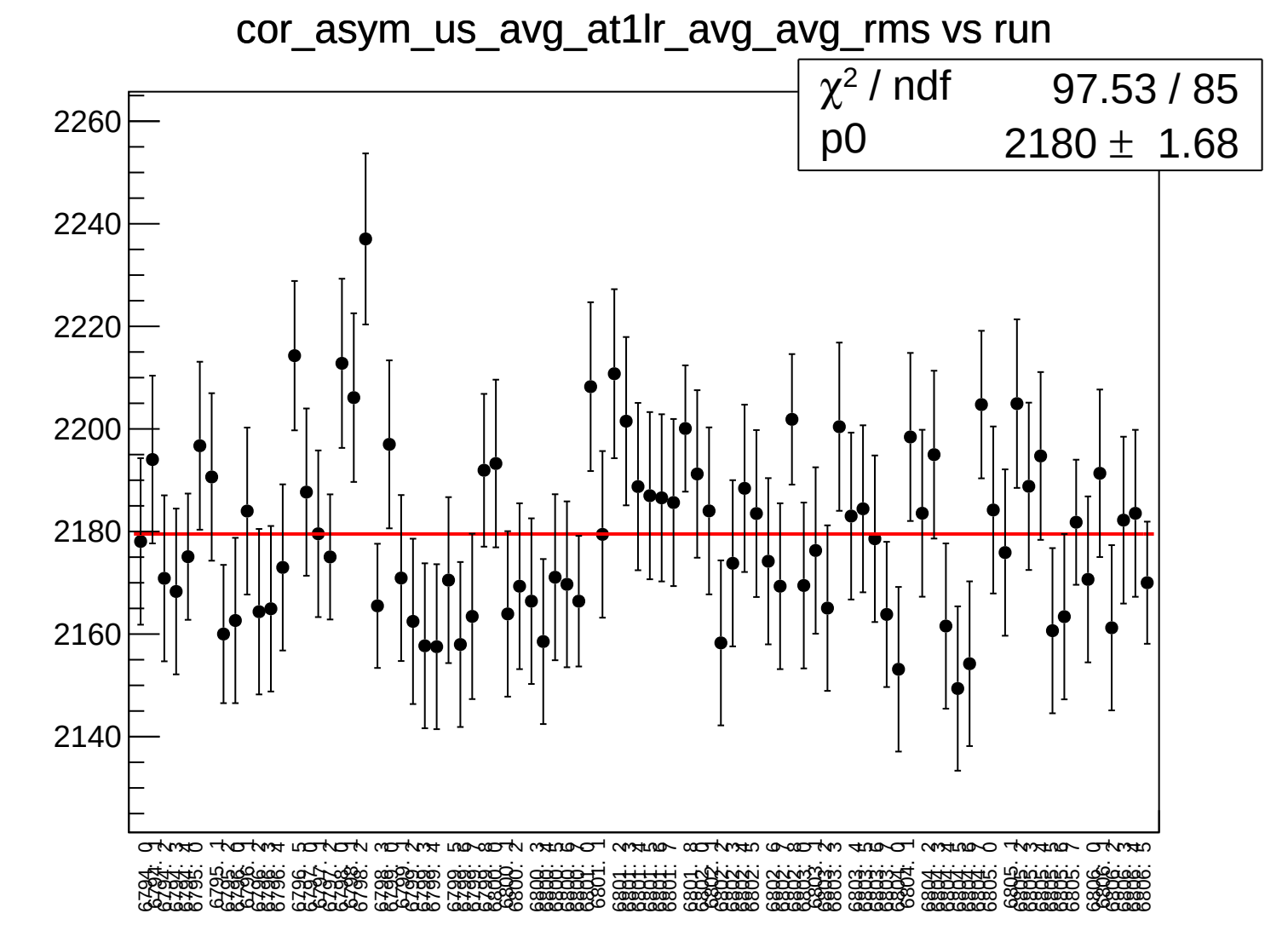

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 83.75 / 85
p0 −1189 ± 1619
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −71.73
Std Dev 0
3
2
1
0
−1
−2
−3

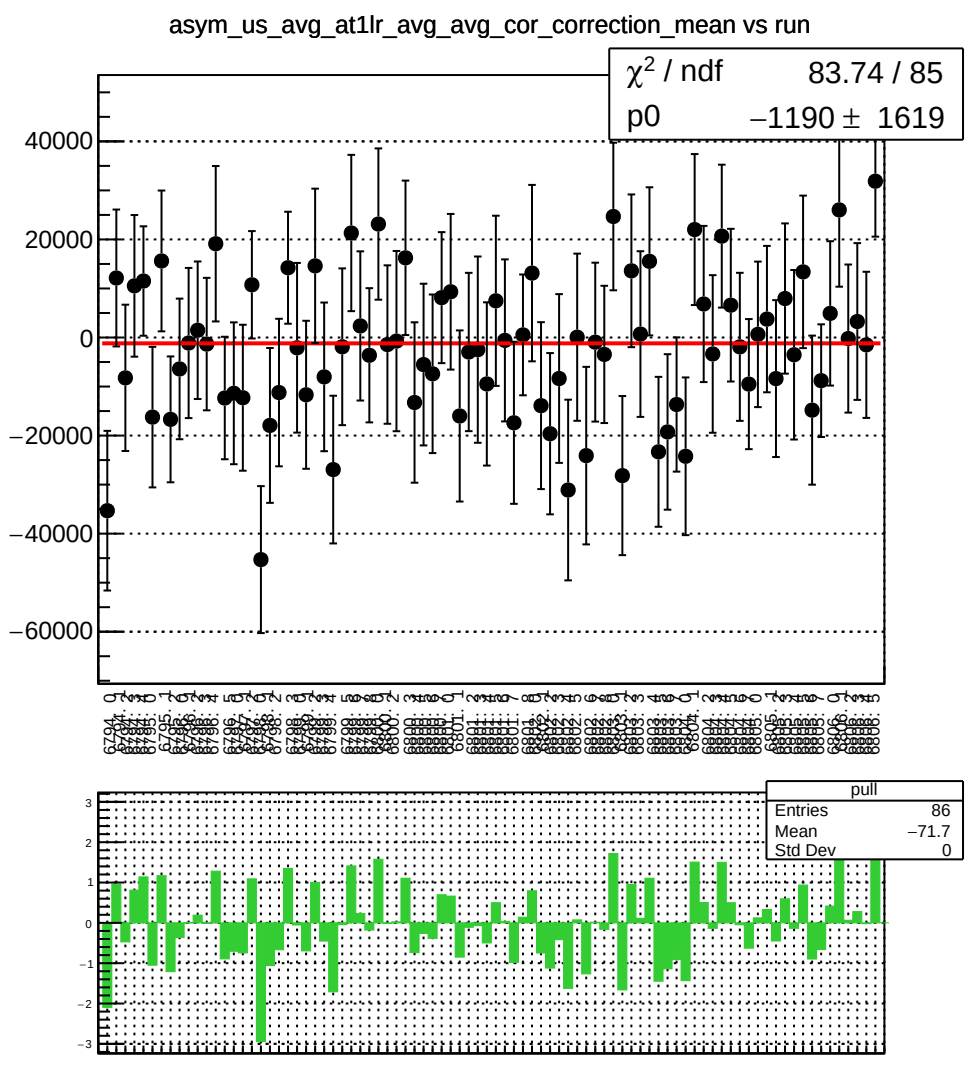

pull1D
Entries 86
Mean −0.02981
Std Dev 0.9864
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

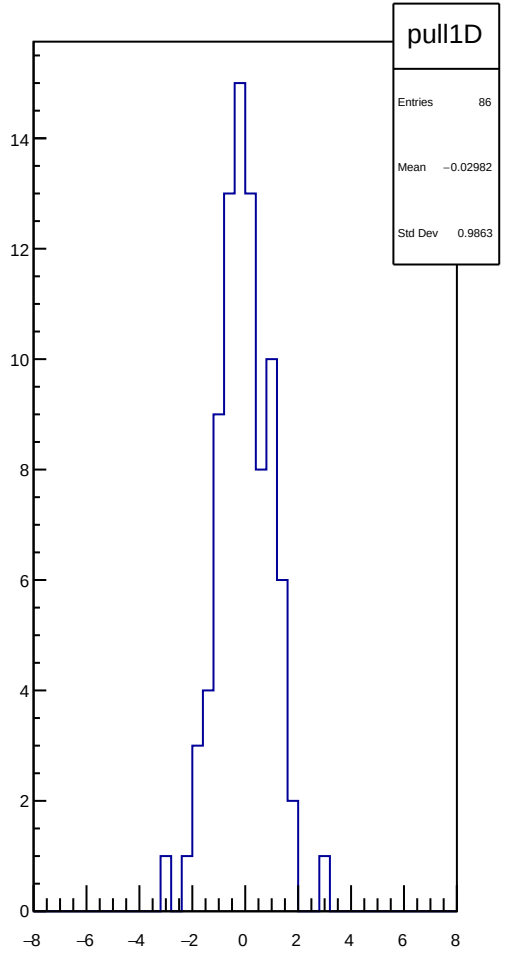

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 7474 / 85
p0 1482 ± 1.145
1800
1700
1600
1500
1400
1300

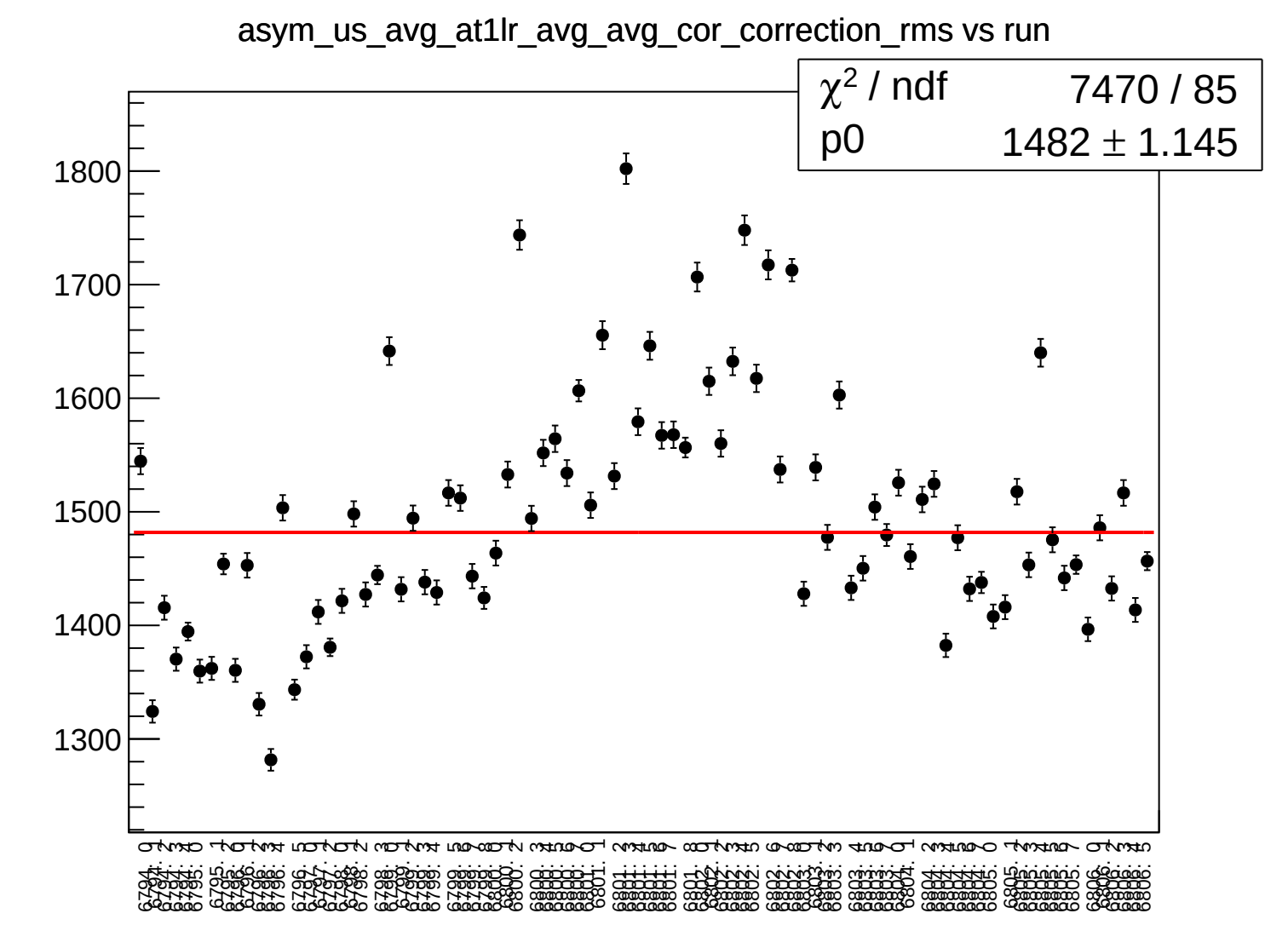

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.89 / 85
p0 1746 ± 2376
pull
Entries 86
Mean 669.6
Std Dev 0

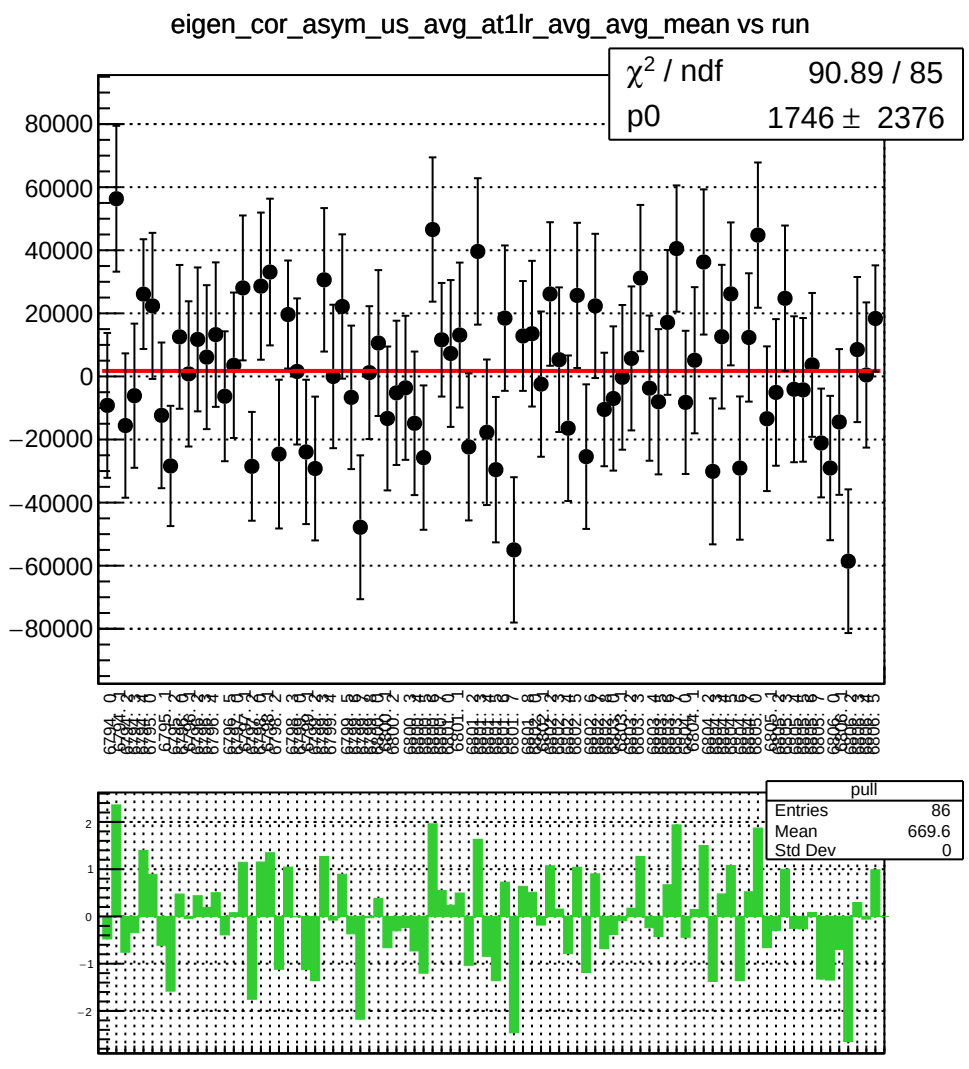

pull1D
Entries 86
Mean −0.002553
Std Dev 1.028

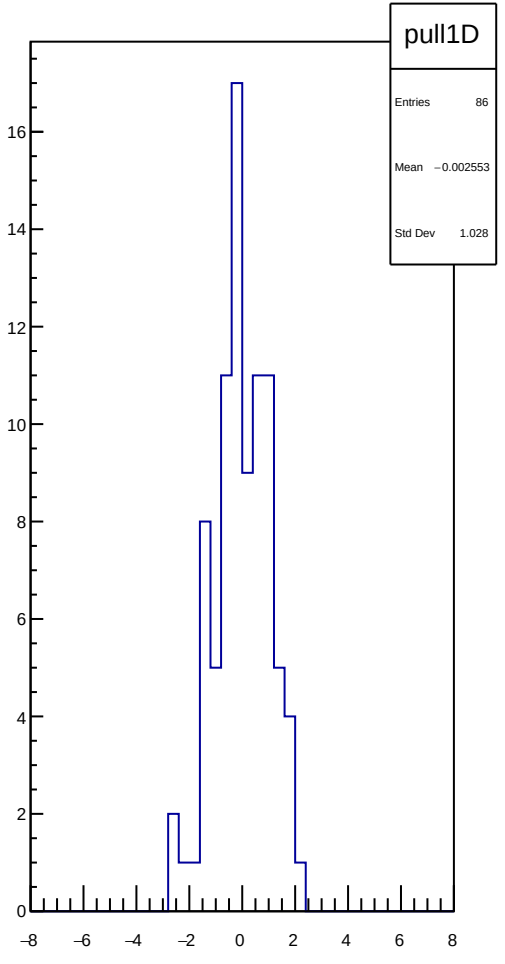

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 97.53 / 85
p0 2180 ± 1.68
2260
2240
2220
2200
2180
2160
2140

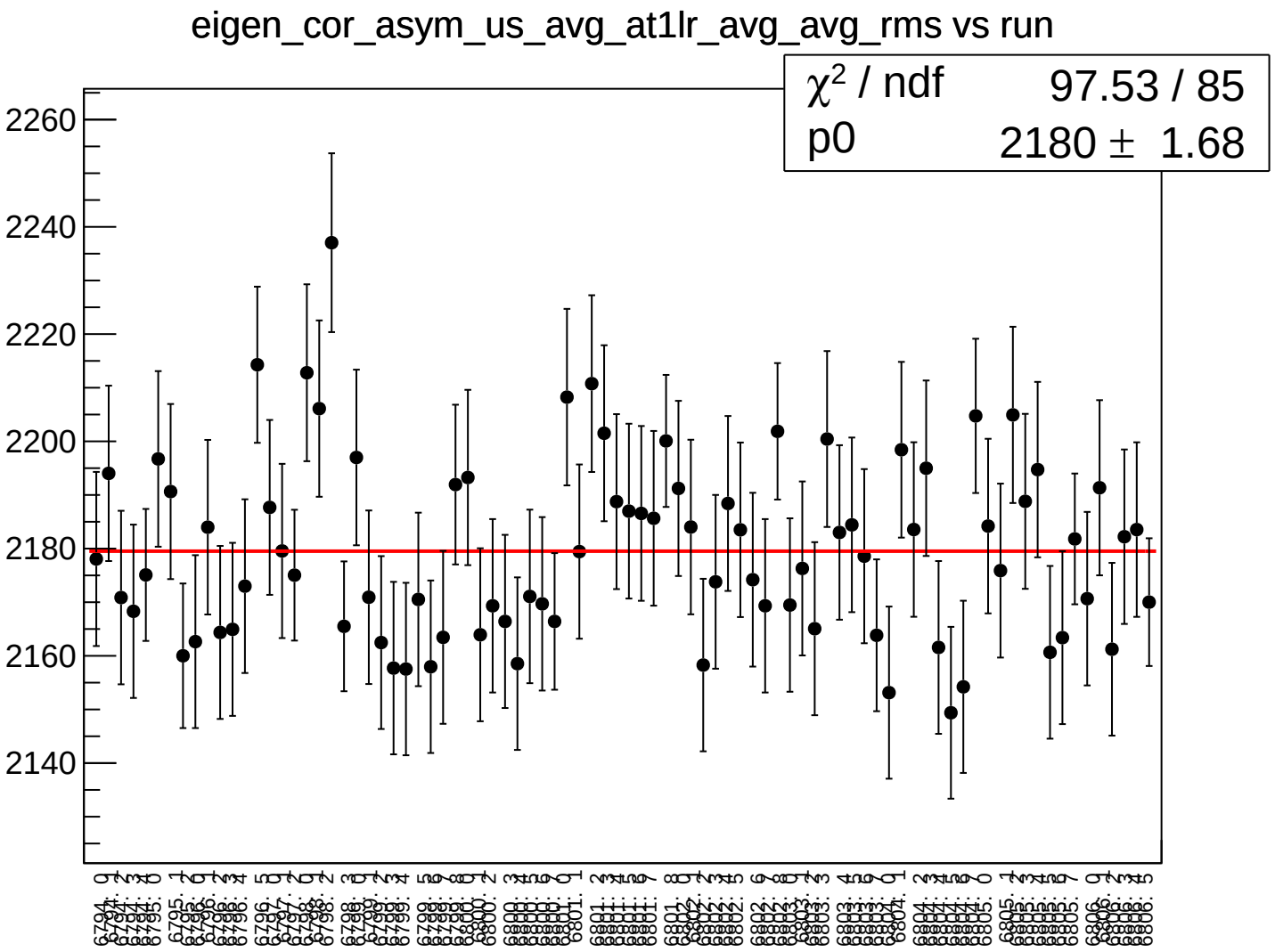

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 83.74 / 85
p0 −1190 ± 1619
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −71.7
Std Dev 0
3
2
1
0
−1
−2
−3

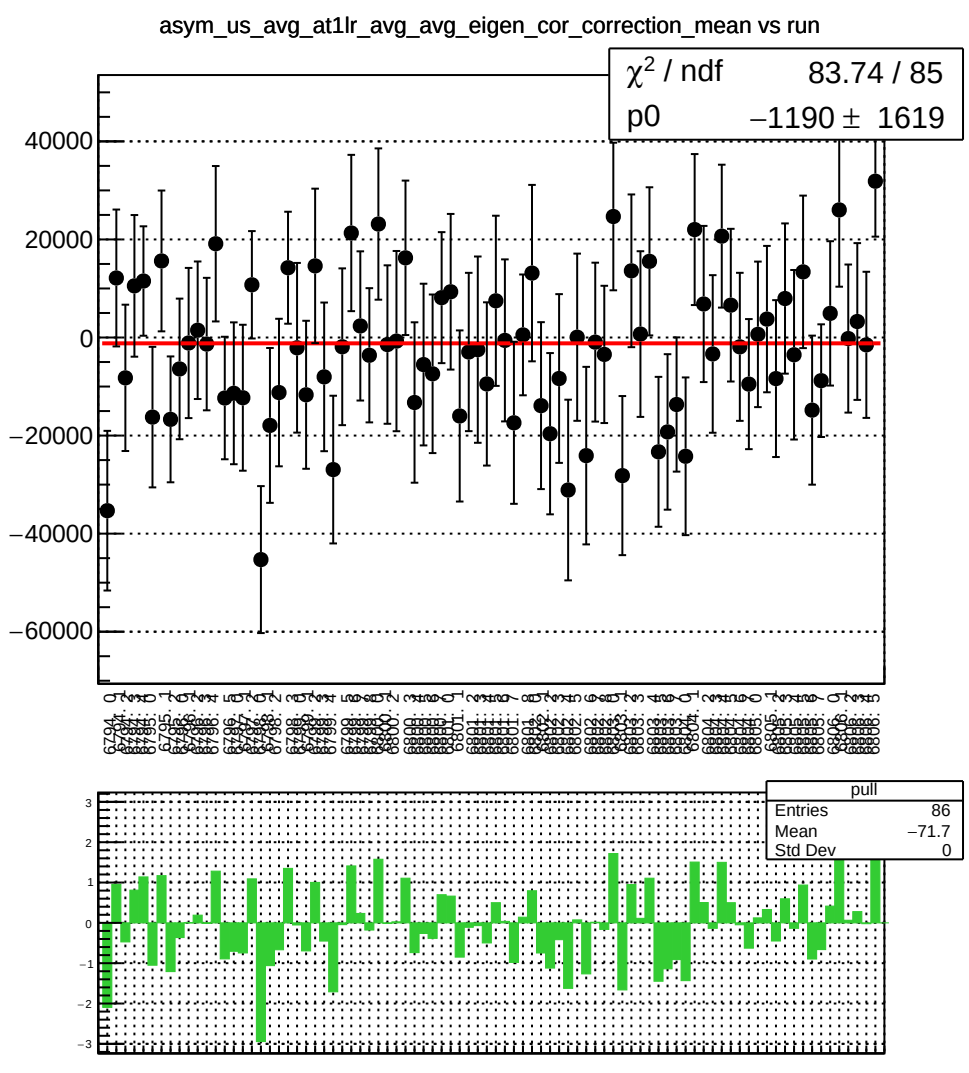

pull1D
Entries 86
Mean −0.02982
Std Dev 0.9863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

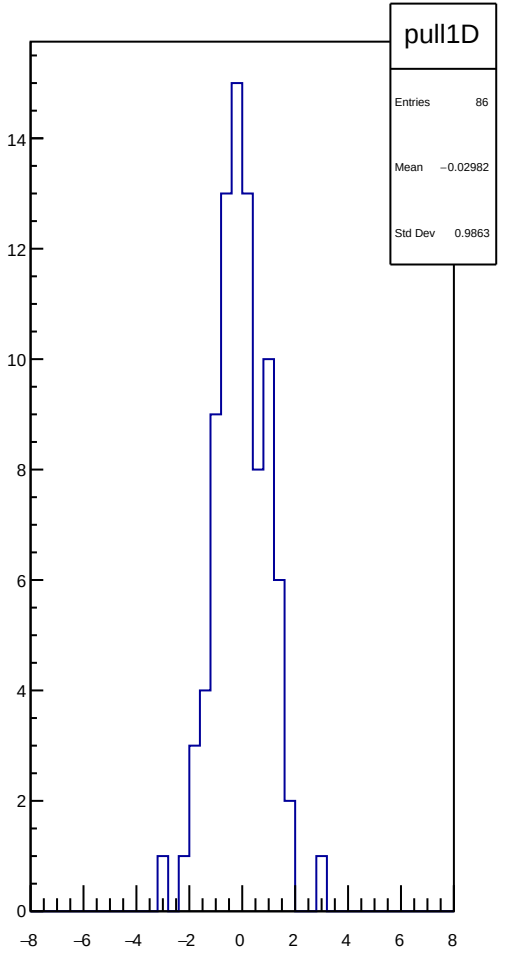

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 7470 / 85
p0 1482 ± 1.145
1800
1700
1600
1500
1400
1300

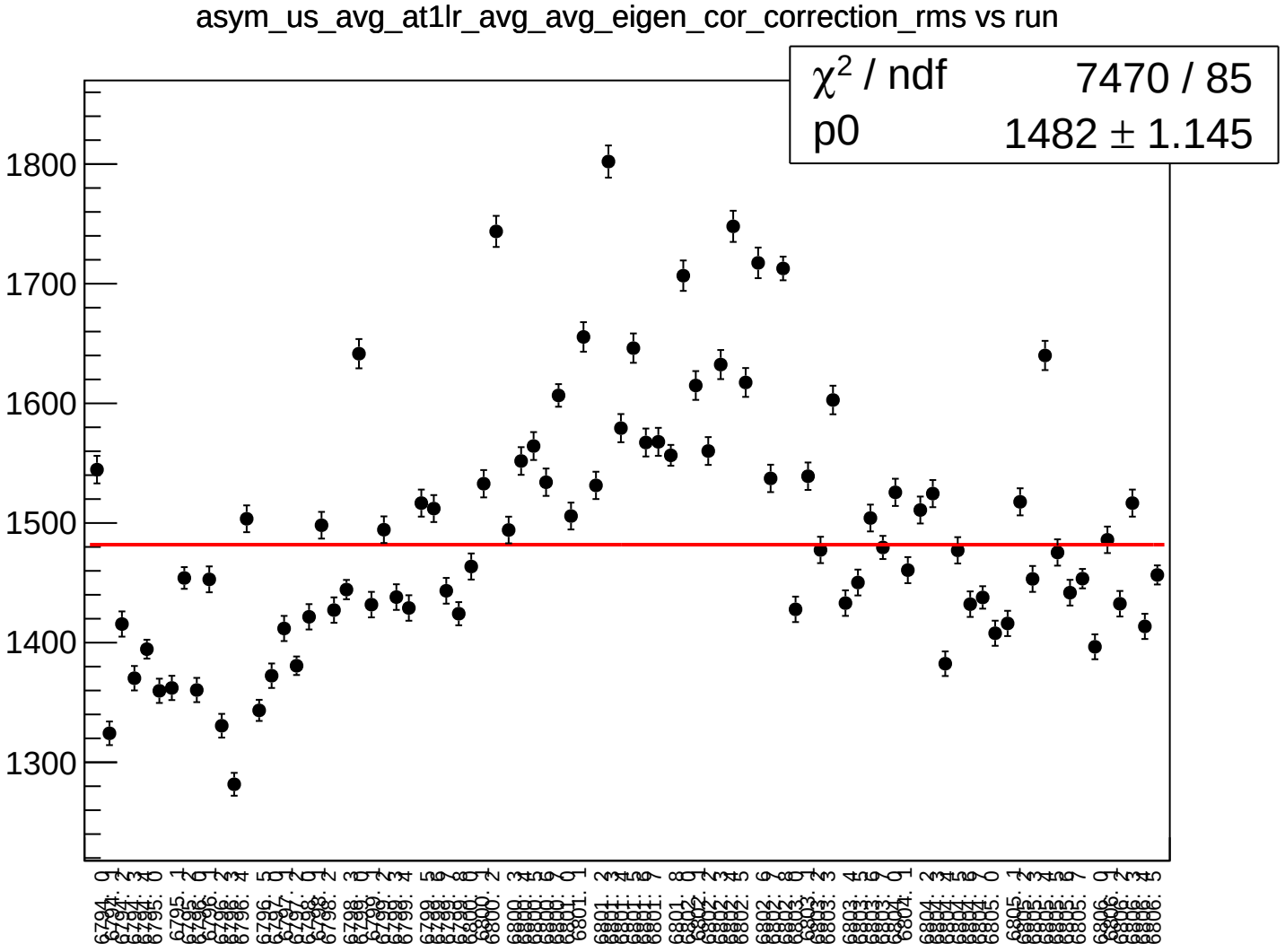

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.89 / 85
p0 1746 ± 2376
pull
Entries 86
Mean 669.6
Std Dev 0

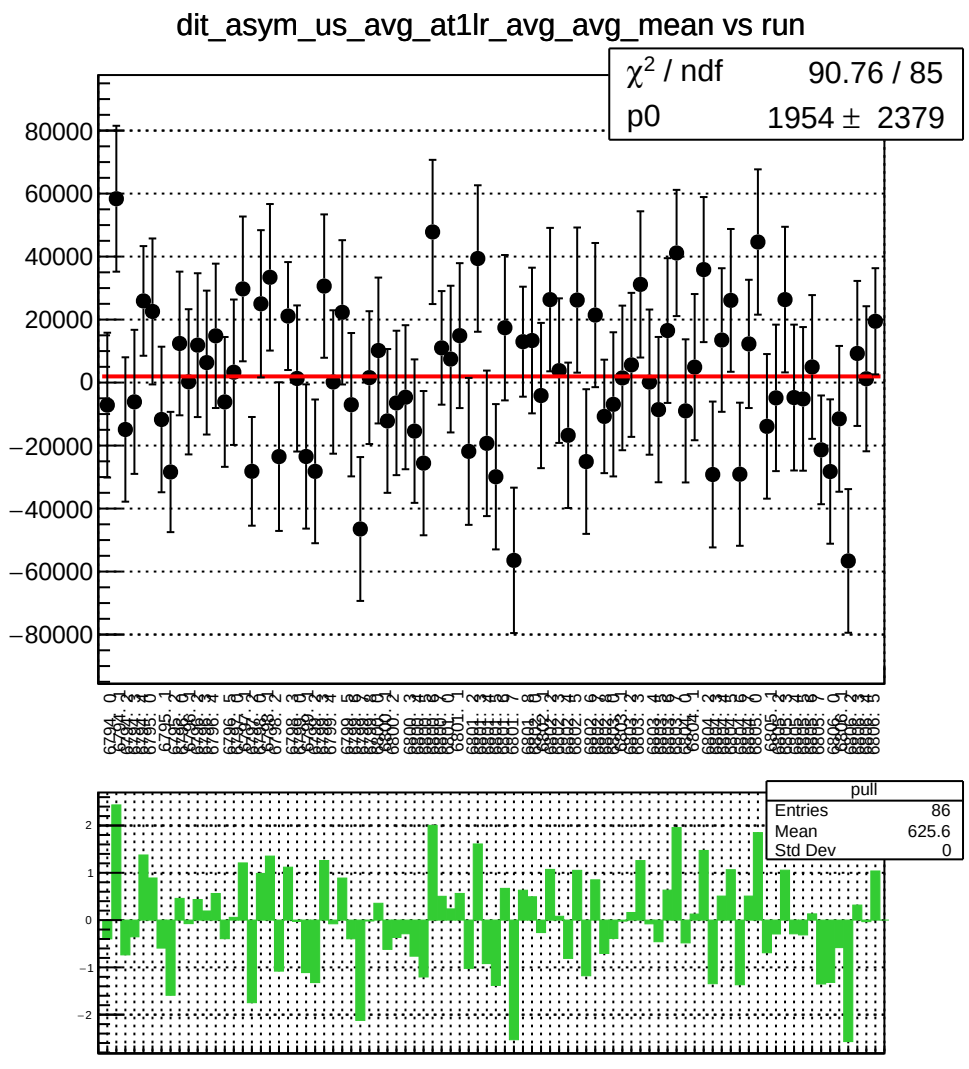

pull1D
Entries 86
Mean −0.002553
Std Dev 1.028

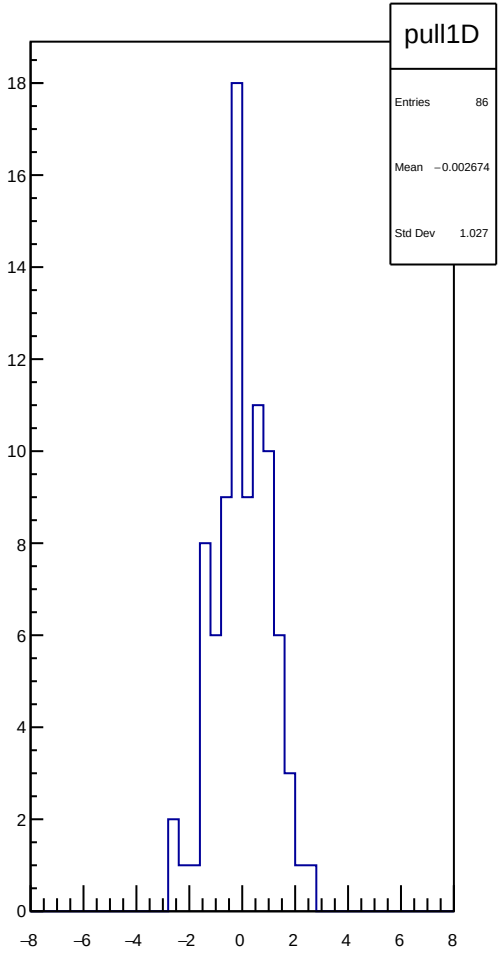

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 97.53 / 85
p0 2180 ± 1.68
2260
2240
2220
2200
2180
2160
2140

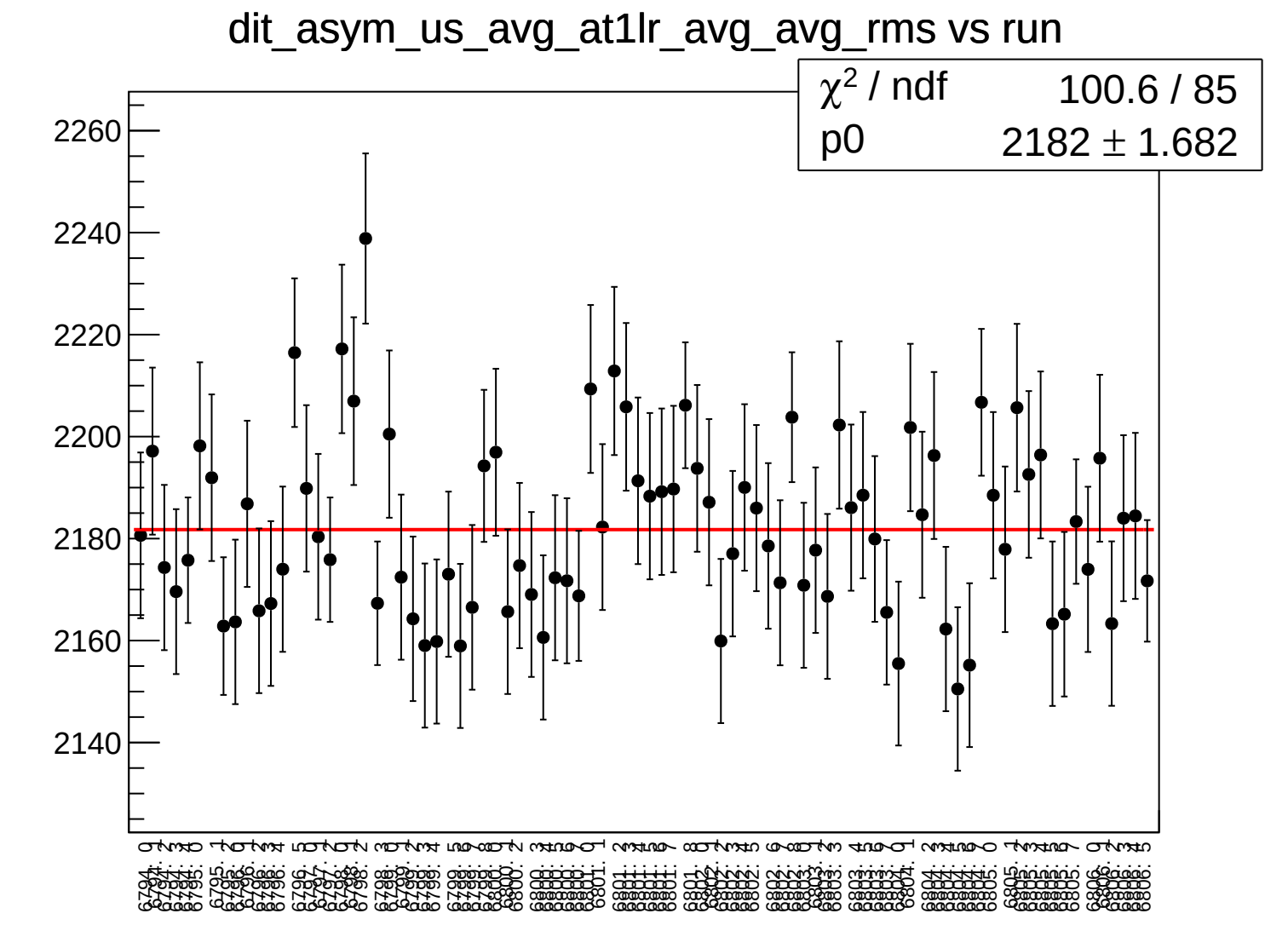

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.74 / 85
p0 −1190 ± 1619
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −71.7
Std Dev 0
3
2
1
0
−1
−2
−3

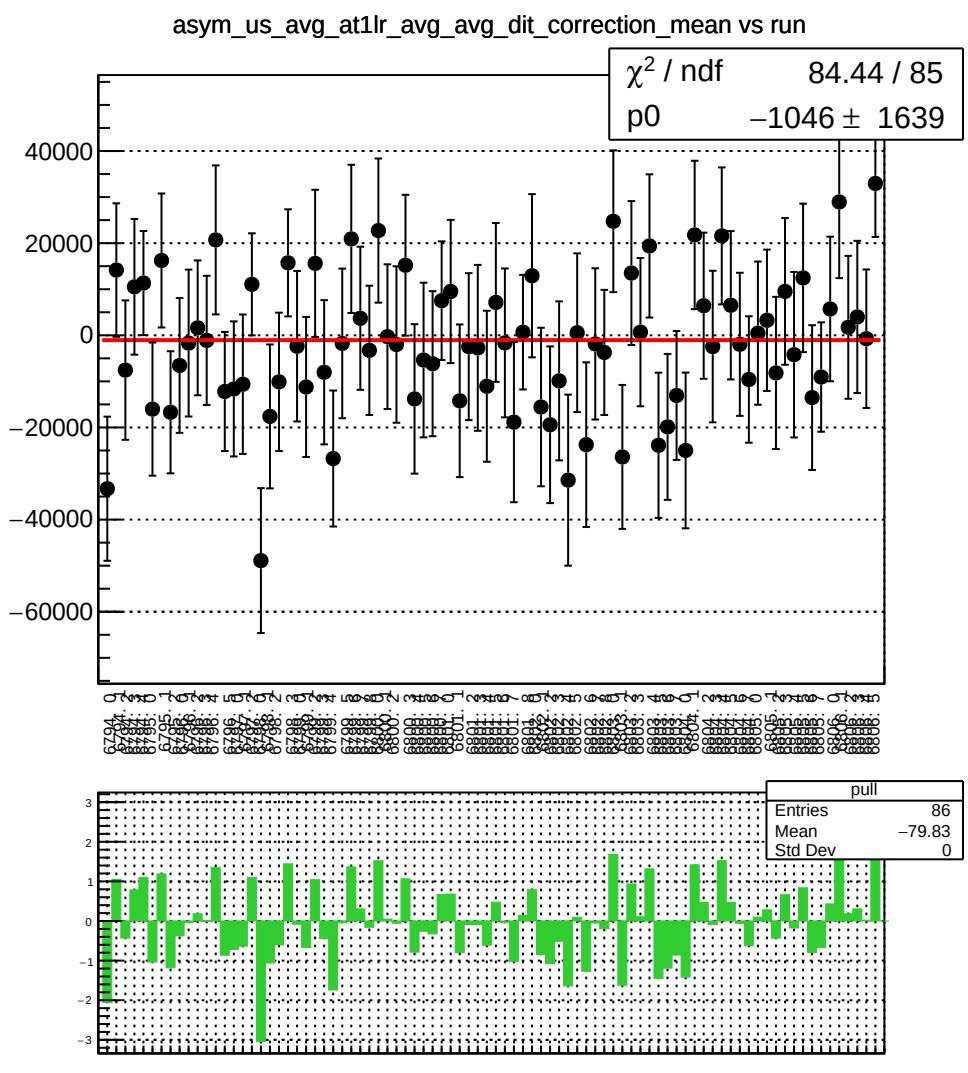

pull1D
Entries 86
Mean −0.02982
Std Dev 0.9863
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

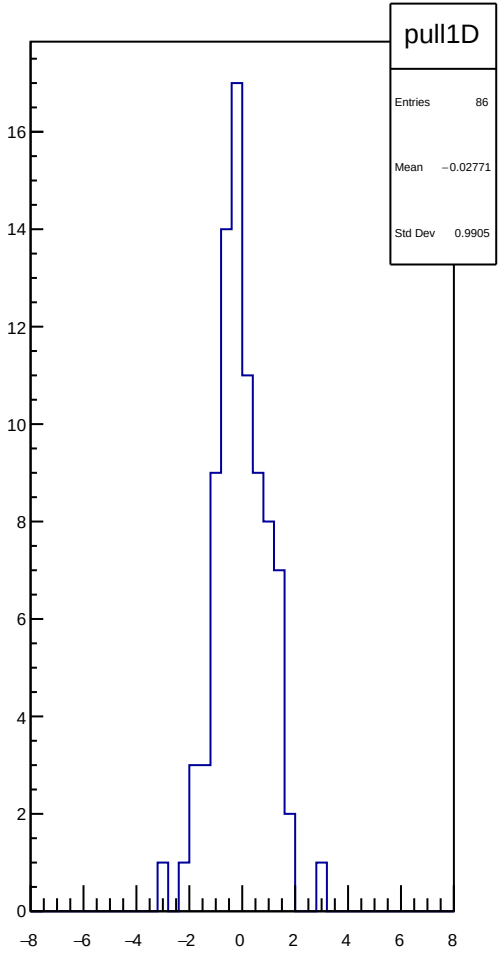

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7470 / 85
p0 1482 ± 1.145
1800
1700
1600
1500
1400
1300

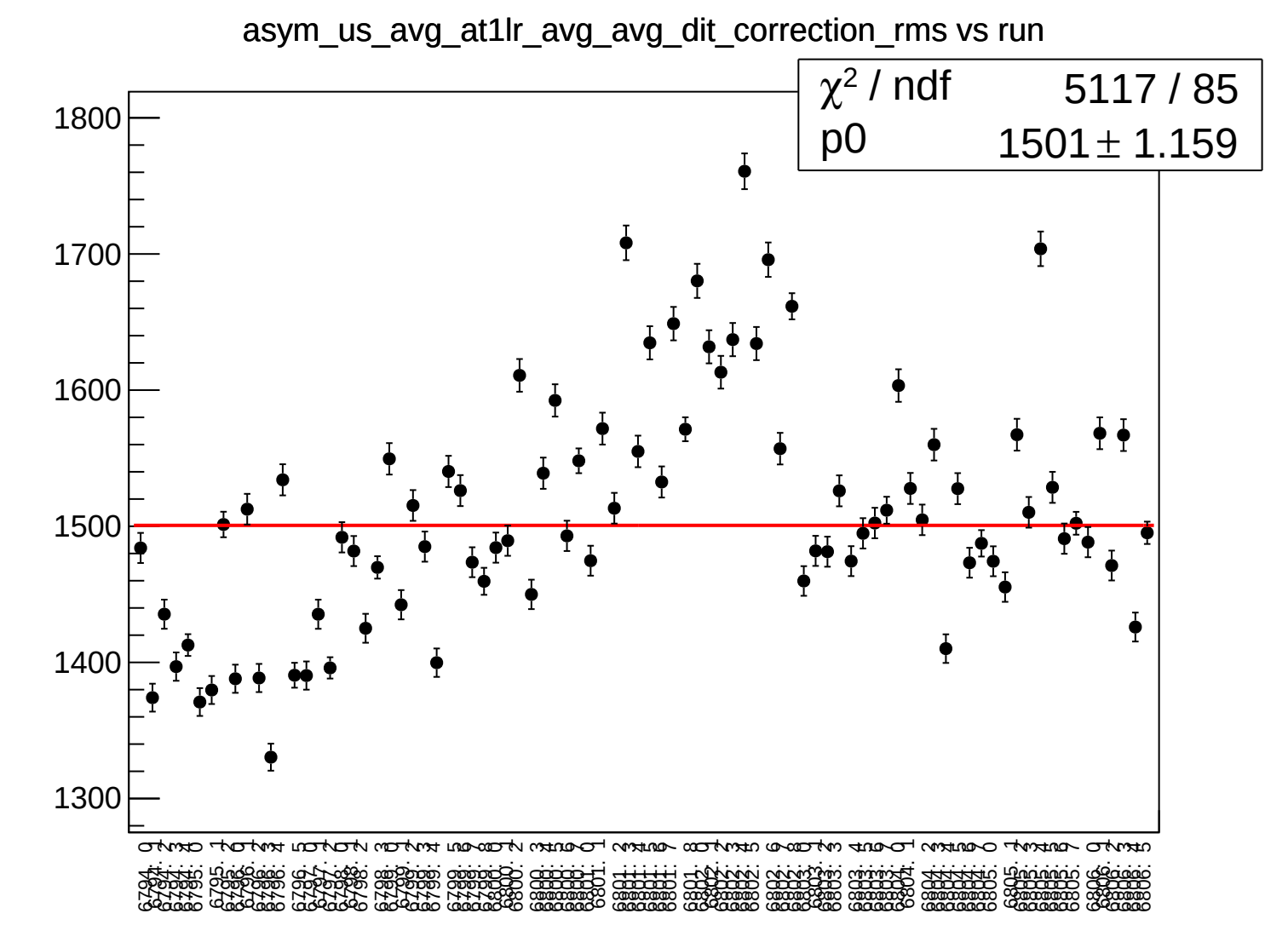

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.76 / 85
p0 1954 ± 2379
pull
Entries 86
Mean 625.6
Std Dev 0

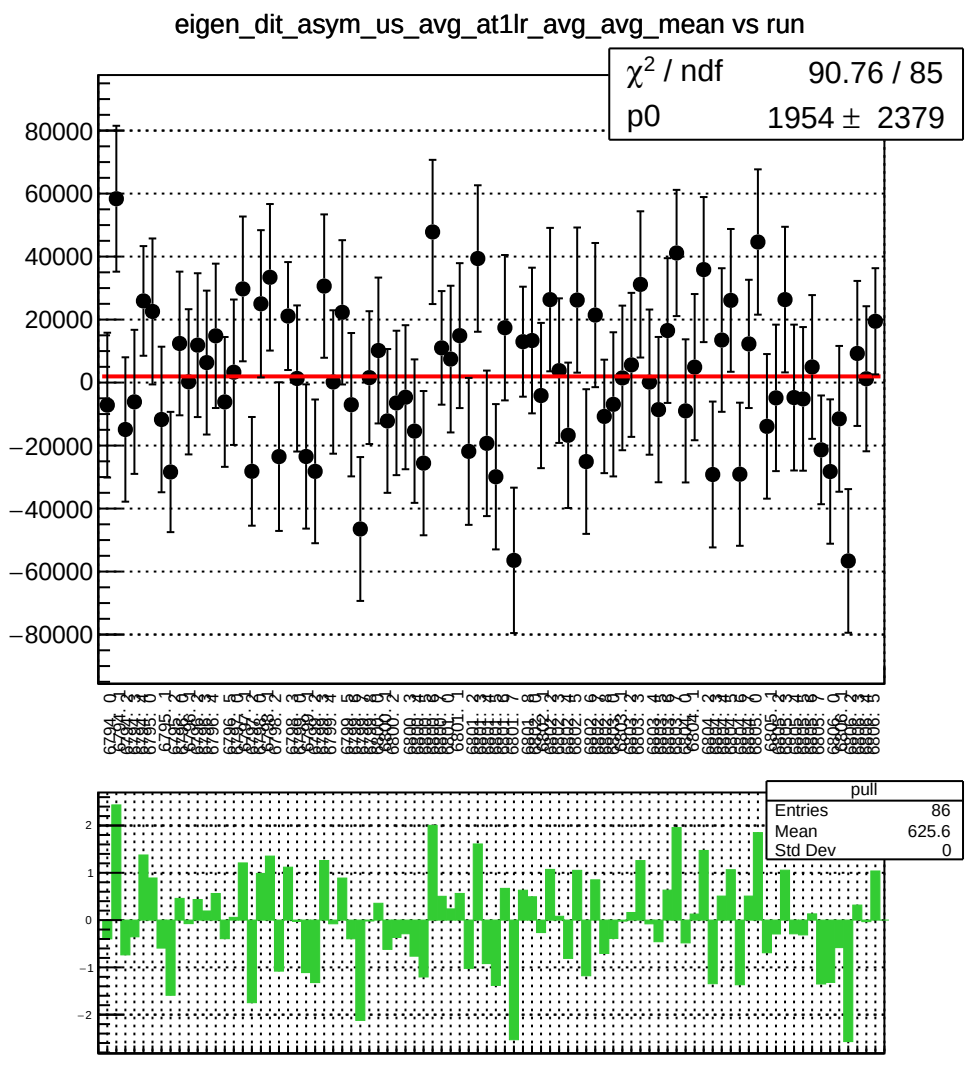

pull1D
Entries 86
Mean −0.002674
Std Dev 1.027

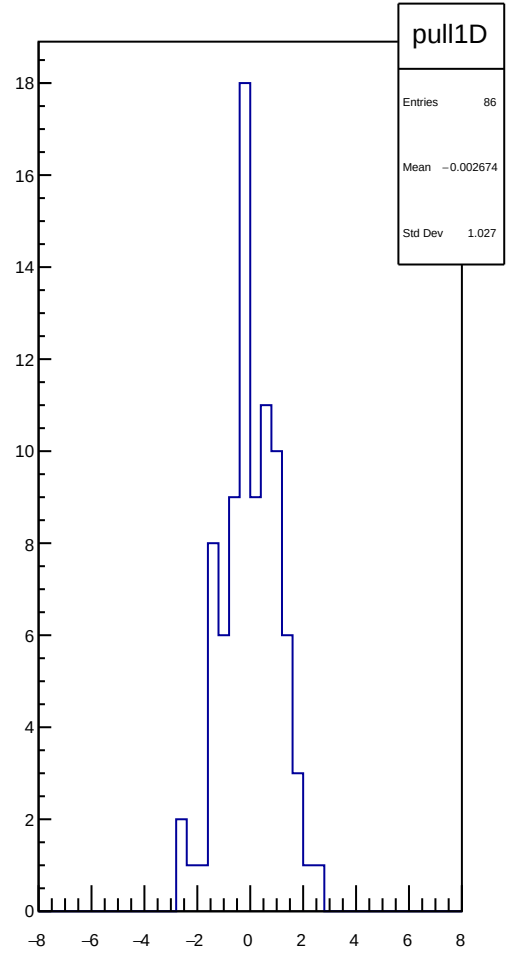

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 100.6 / 85
p0 2182 ± 1.682
2260
2240
2220
2200
2180
2160
2140

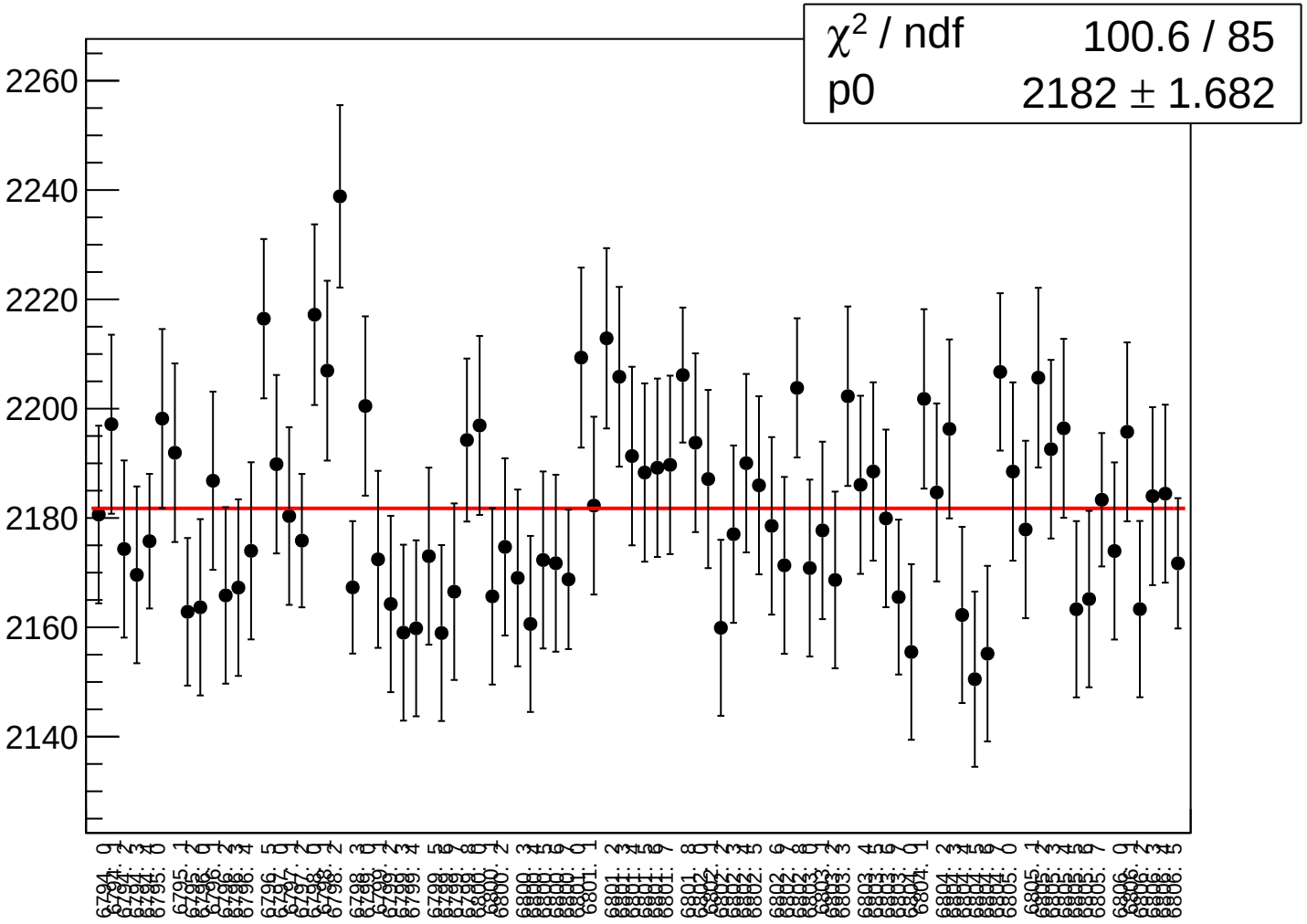

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 84.44 / 85
p0 −1046 ± 1639
pull
Entries 86
Mean −79.83
Std Dev 0

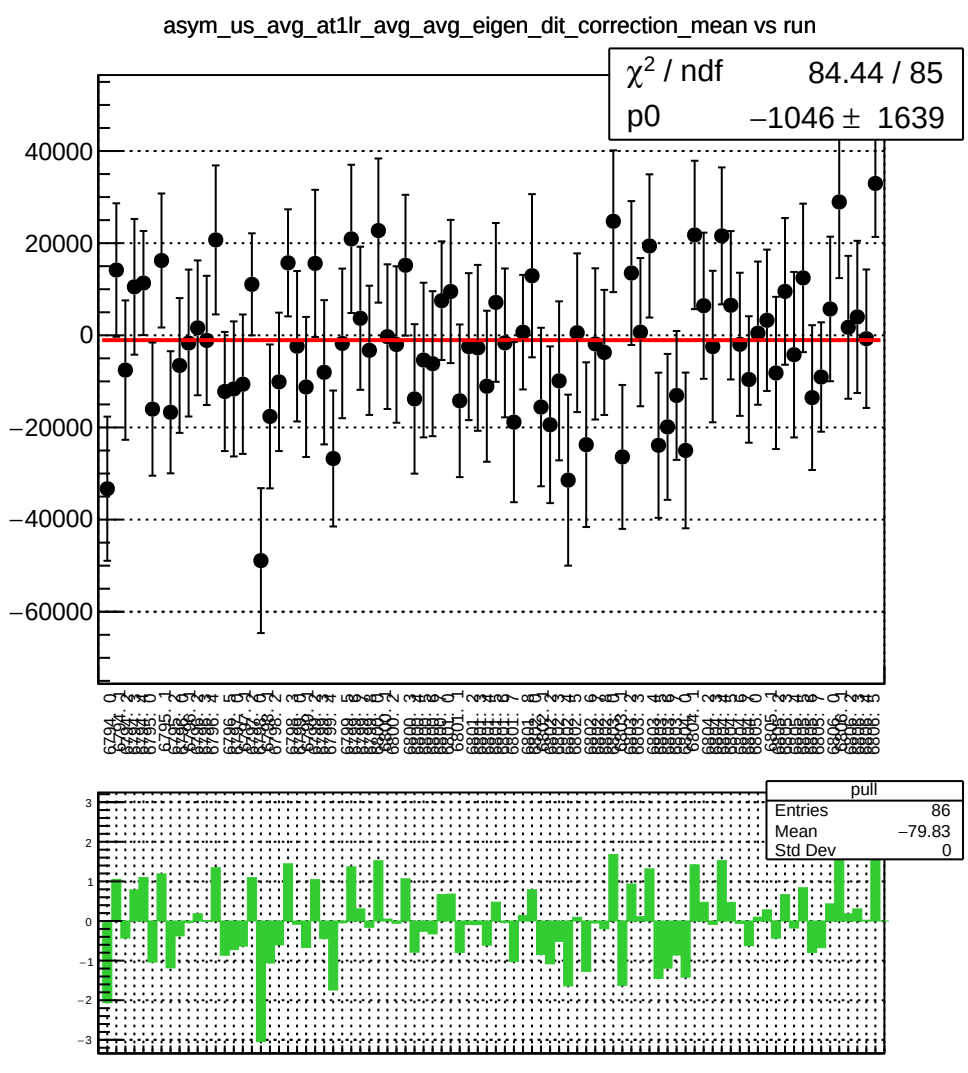

pull1D
Entries 86
Mean −0.02771
Std Dev 0.9905

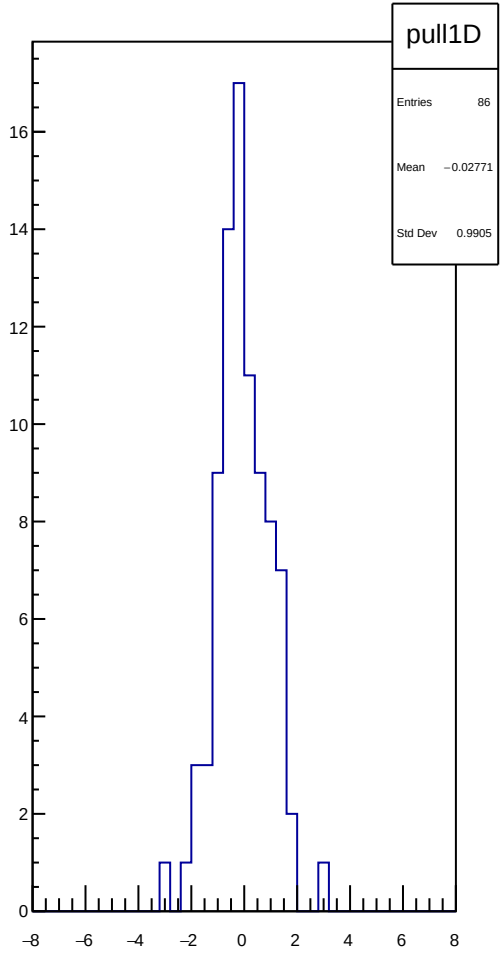

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 5117 / 85
p0 1501 ± 1.159
1800
1700
1600
1500
1400
1300

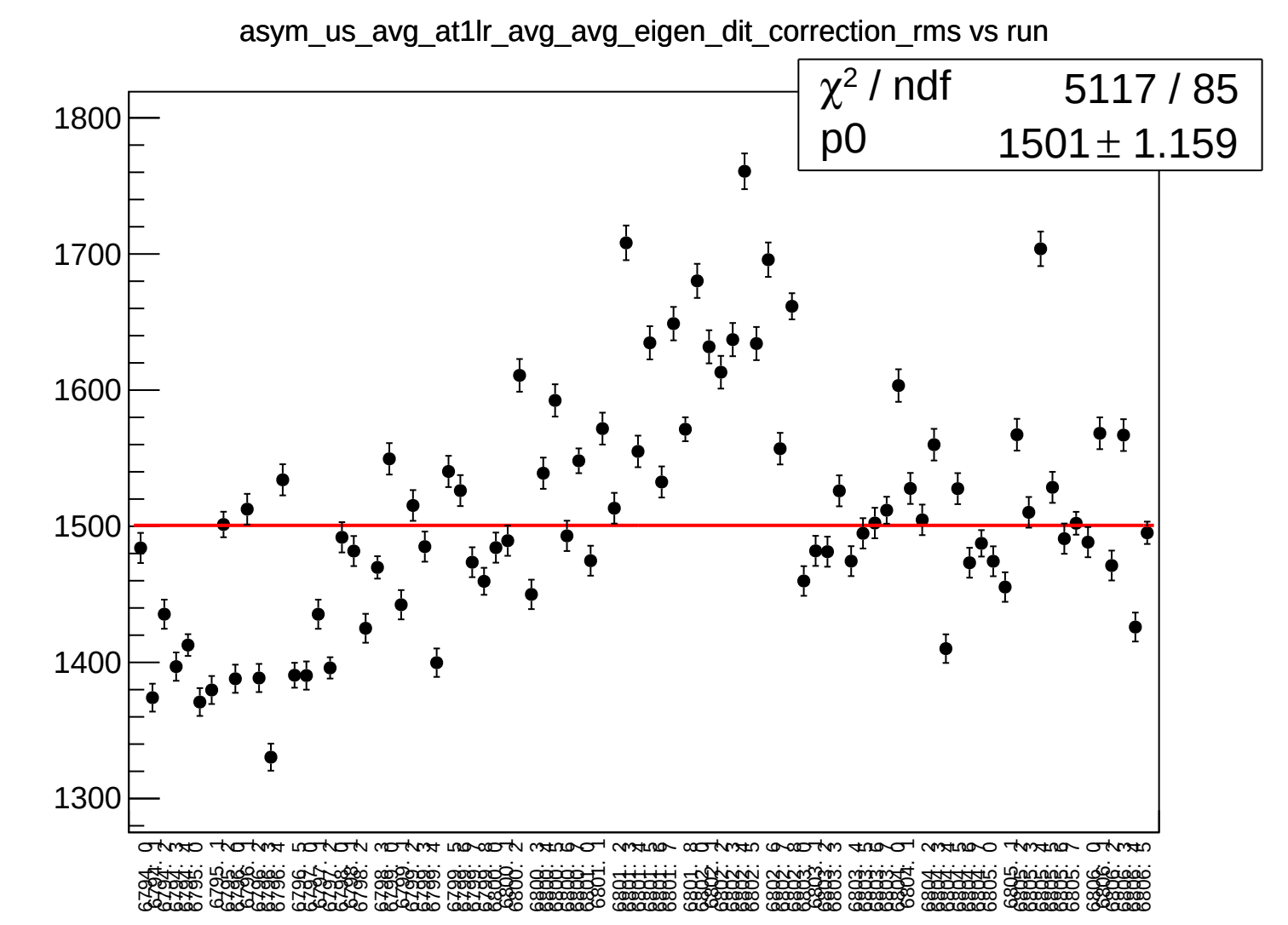

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 90.76 / 85
p0 1954 ± 2379
pull
Entries 86
Mean 625.6
Std Dev 0

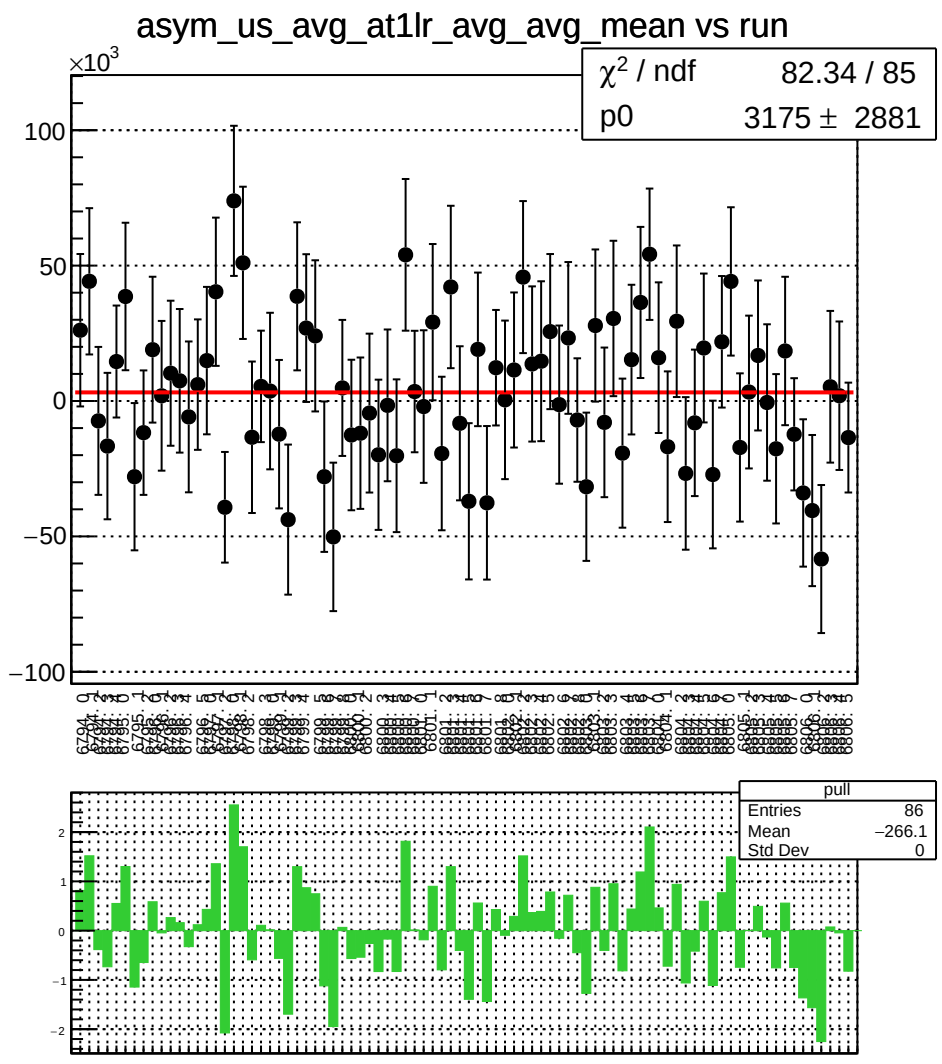

pull1D
Entries 86
Mean −0.002674
Std Dev 1.027

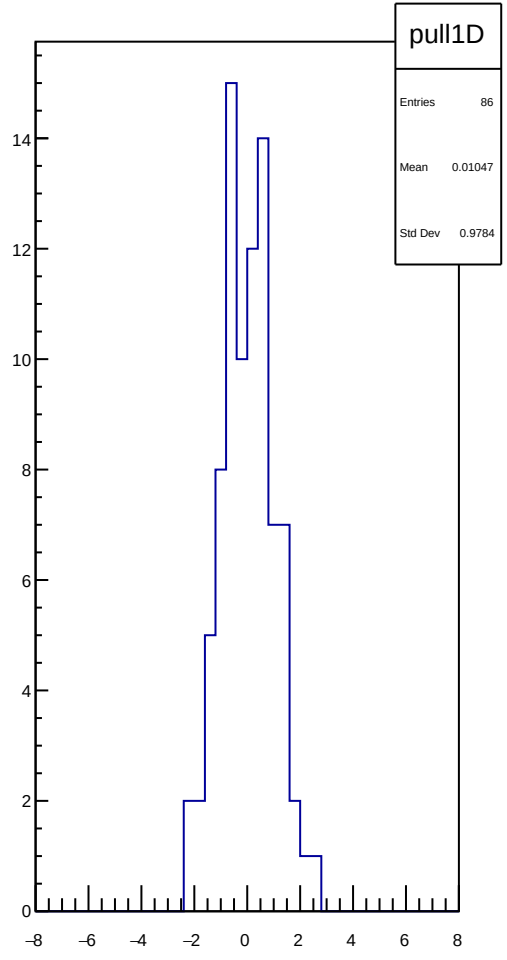

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 100.6 / 85
p0 2182 ± 1.682
2260
2240
2220
2200
2180
2160
2140

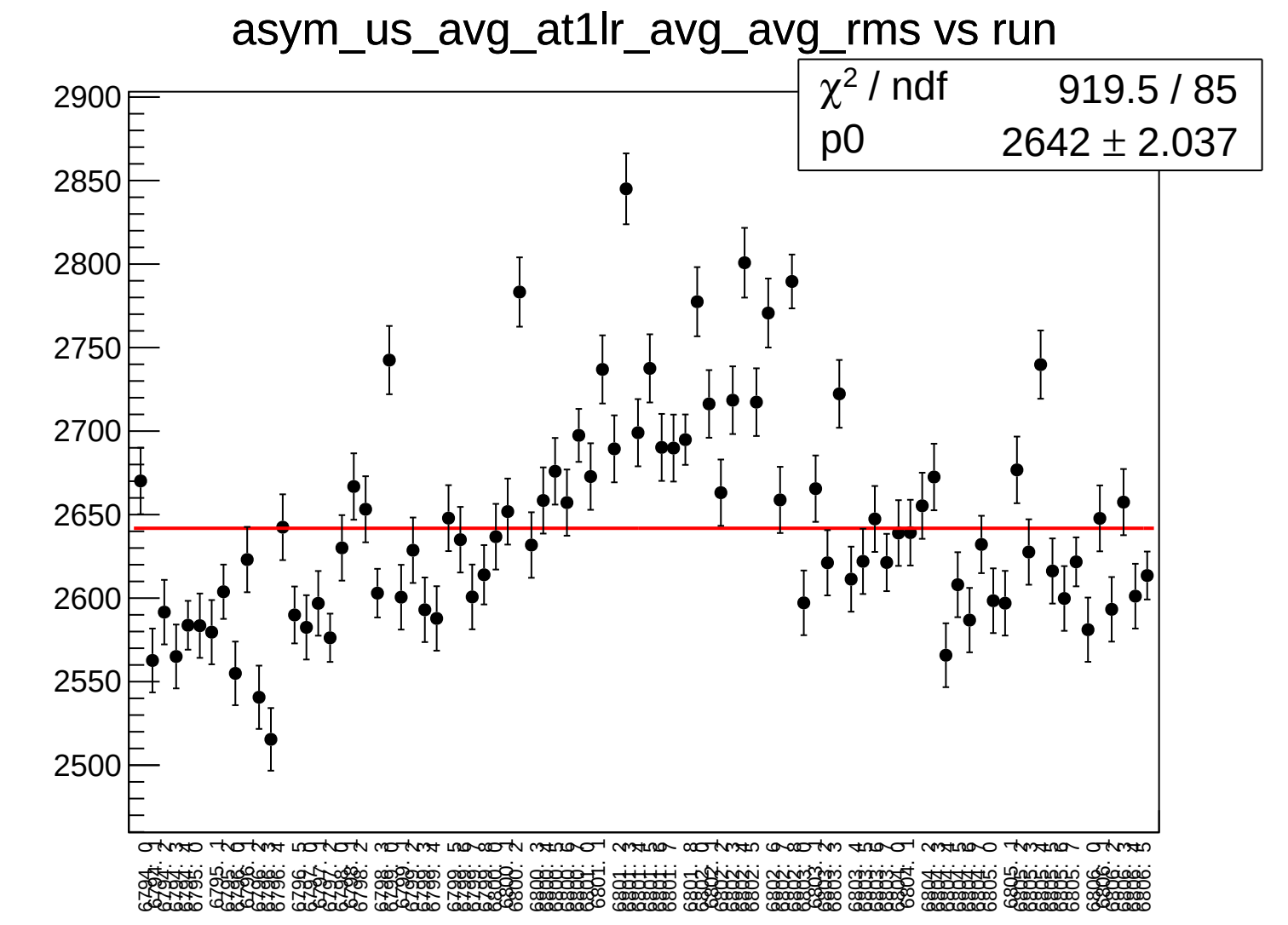

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.44 / 85
p0 −1046 ± 1639
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −79.83
Std Dev 0
3
2
1
0
−1
−2
−3

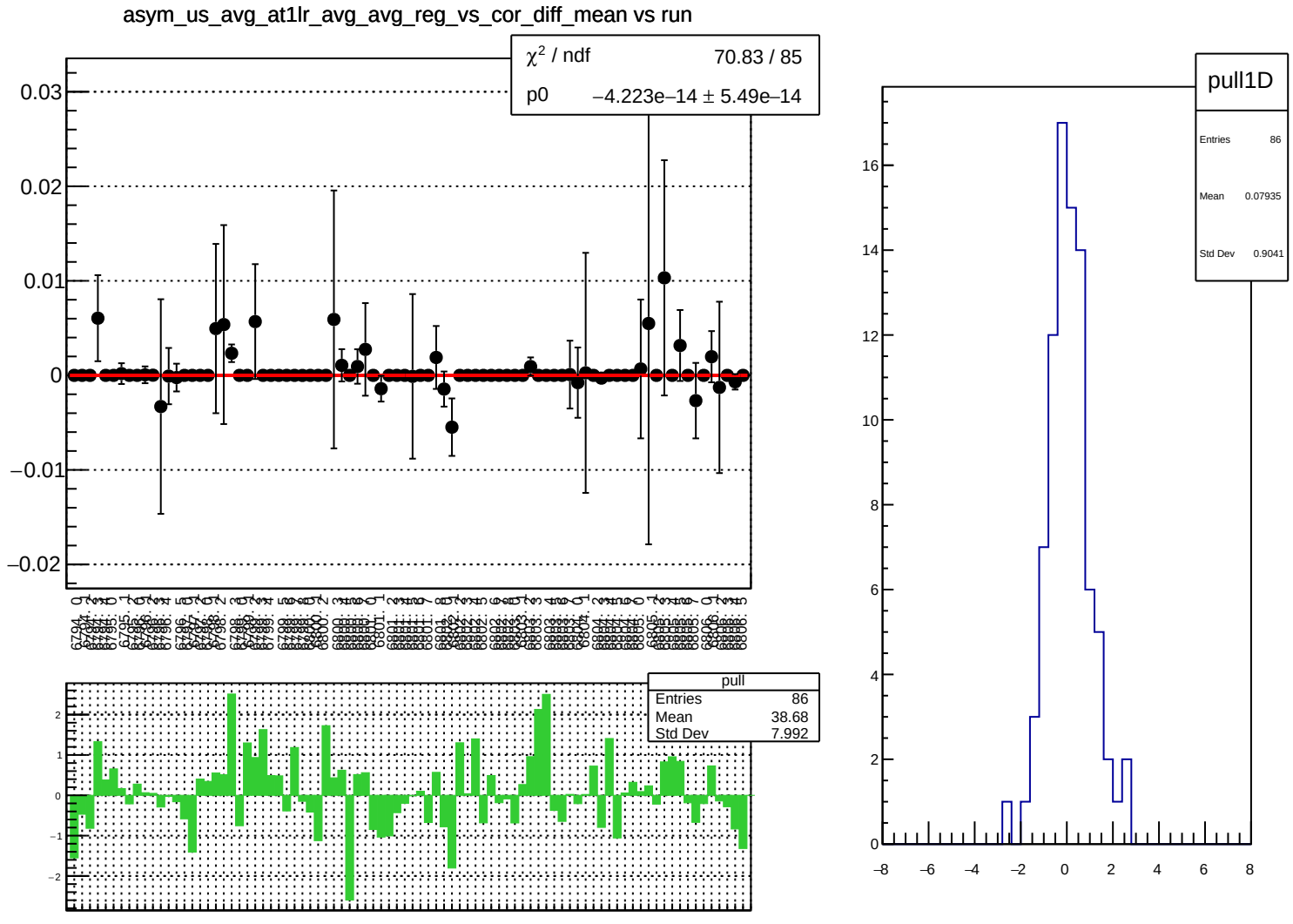

pull1D
Entries 86
Mean −0.02771
Std Dev 0.9905
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

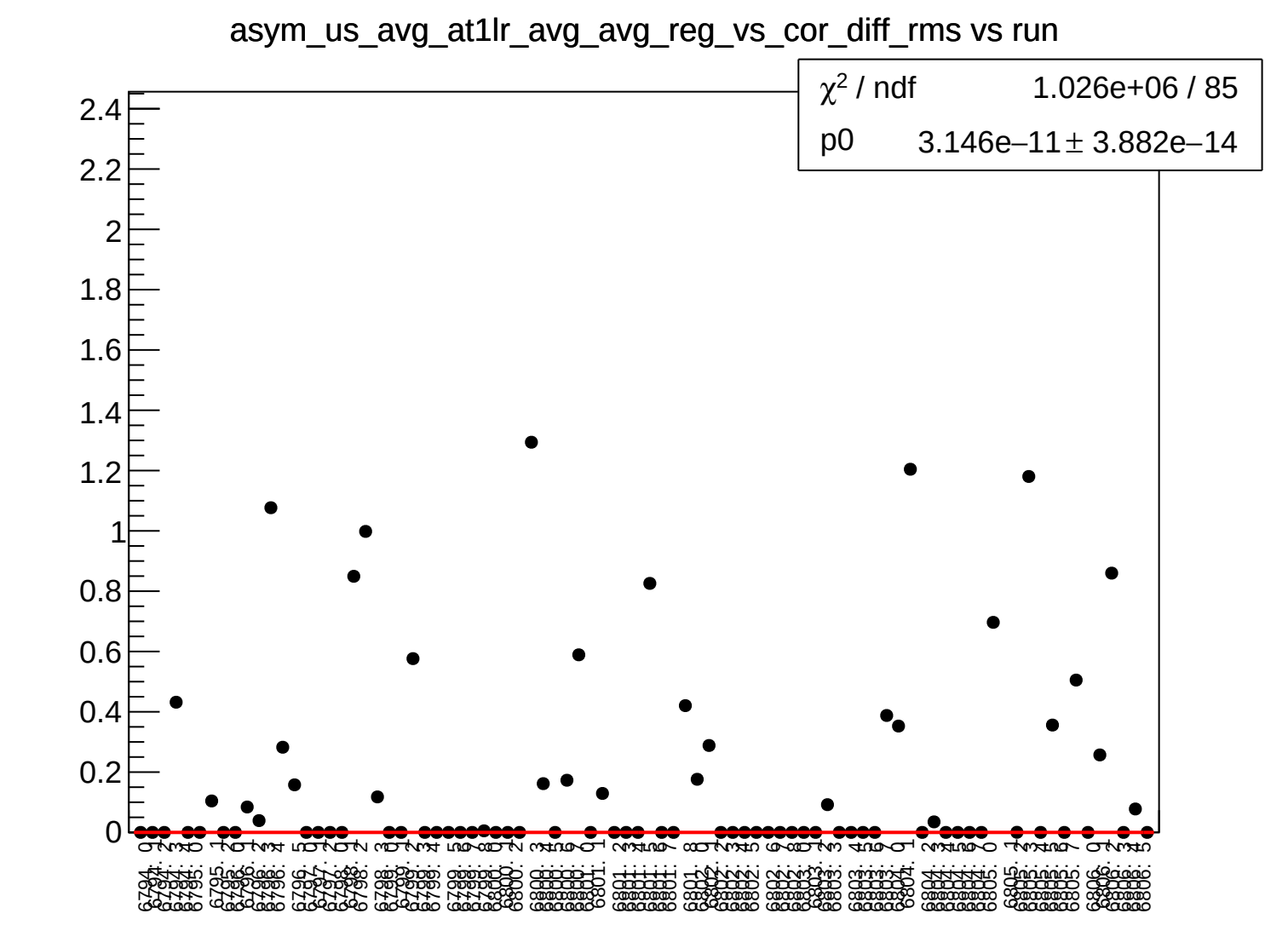

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5117 / 85
p0 1501 ± 1.159
1800
1700
1600
1500
1400
1300

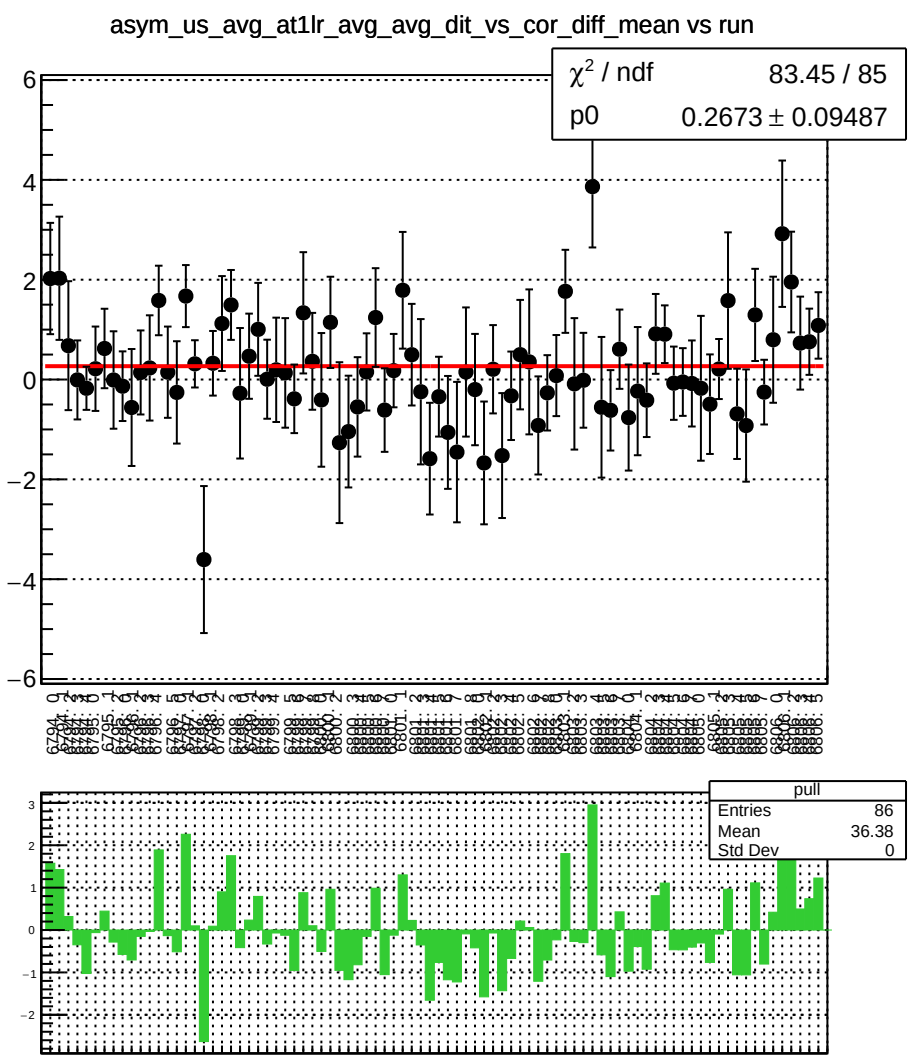

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 82.34 / 85
p0 3175 ± 2881
100
50
0
−50
−100
pull
Entries 86
Mean −266.1
Std Dev 0
2
1
0
−1
−2

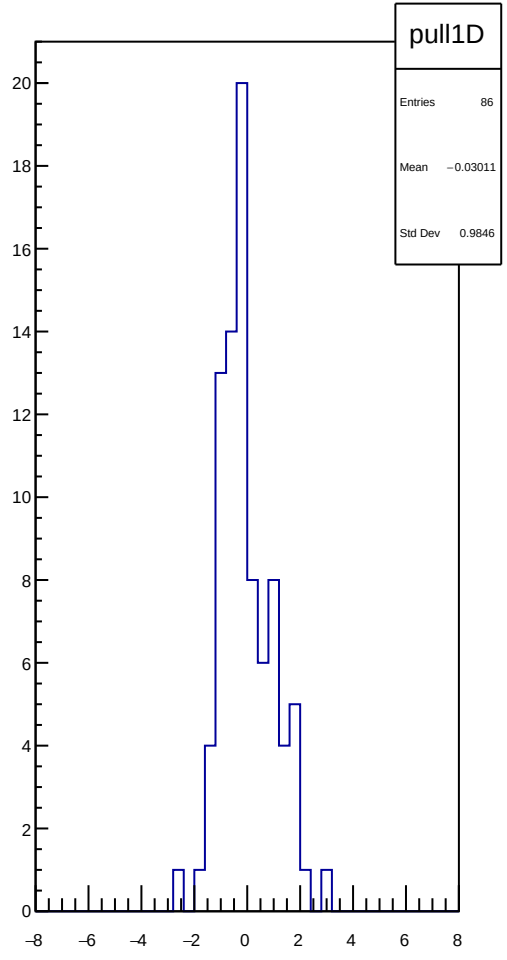

pull1D
Entries 86
Mean 0.01047
Std Dev 0.9784
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

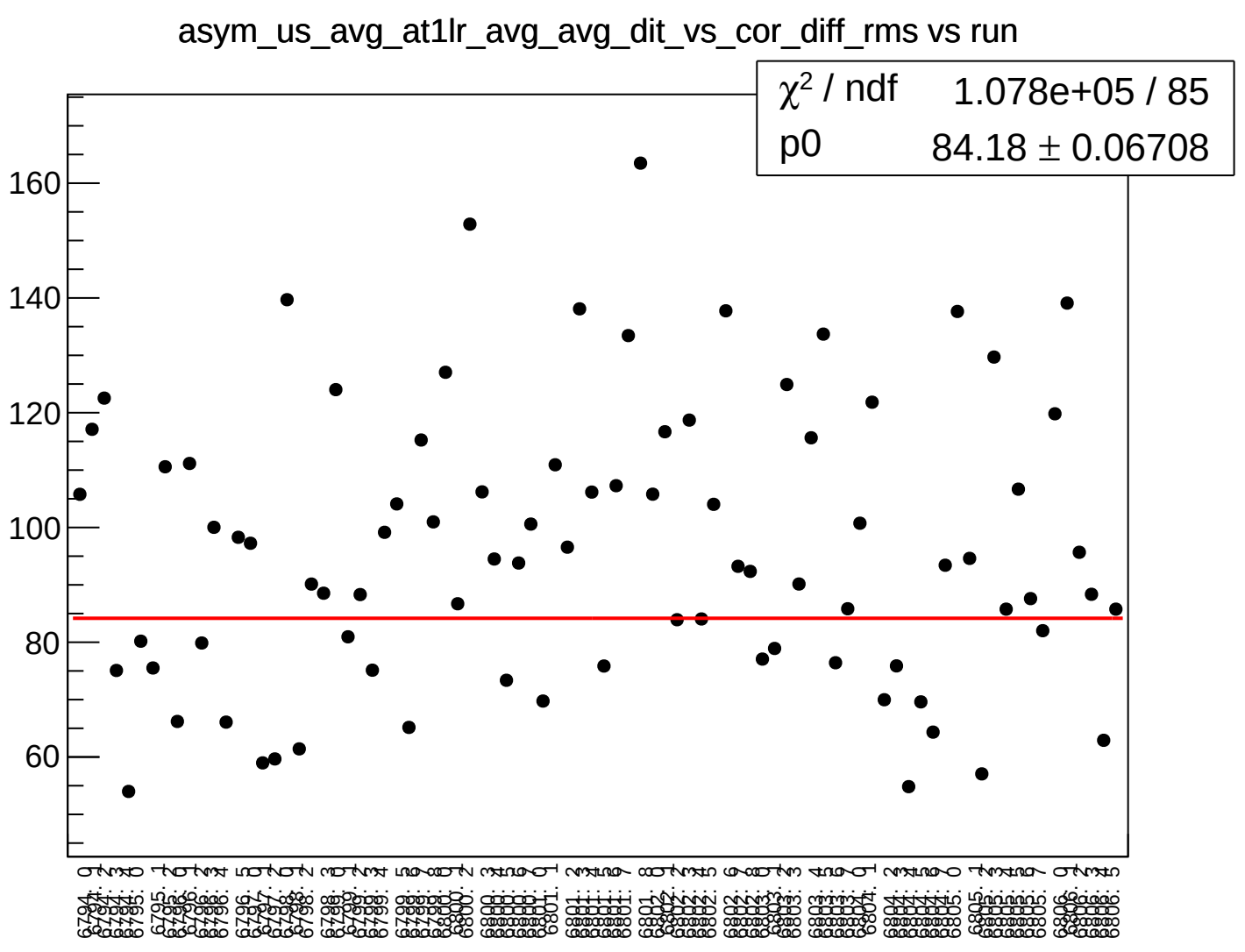

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 919.5 / 85
p0 2642 ± 2.037
2900
2850
2800
2750
2700
2650
2600
2550
2500

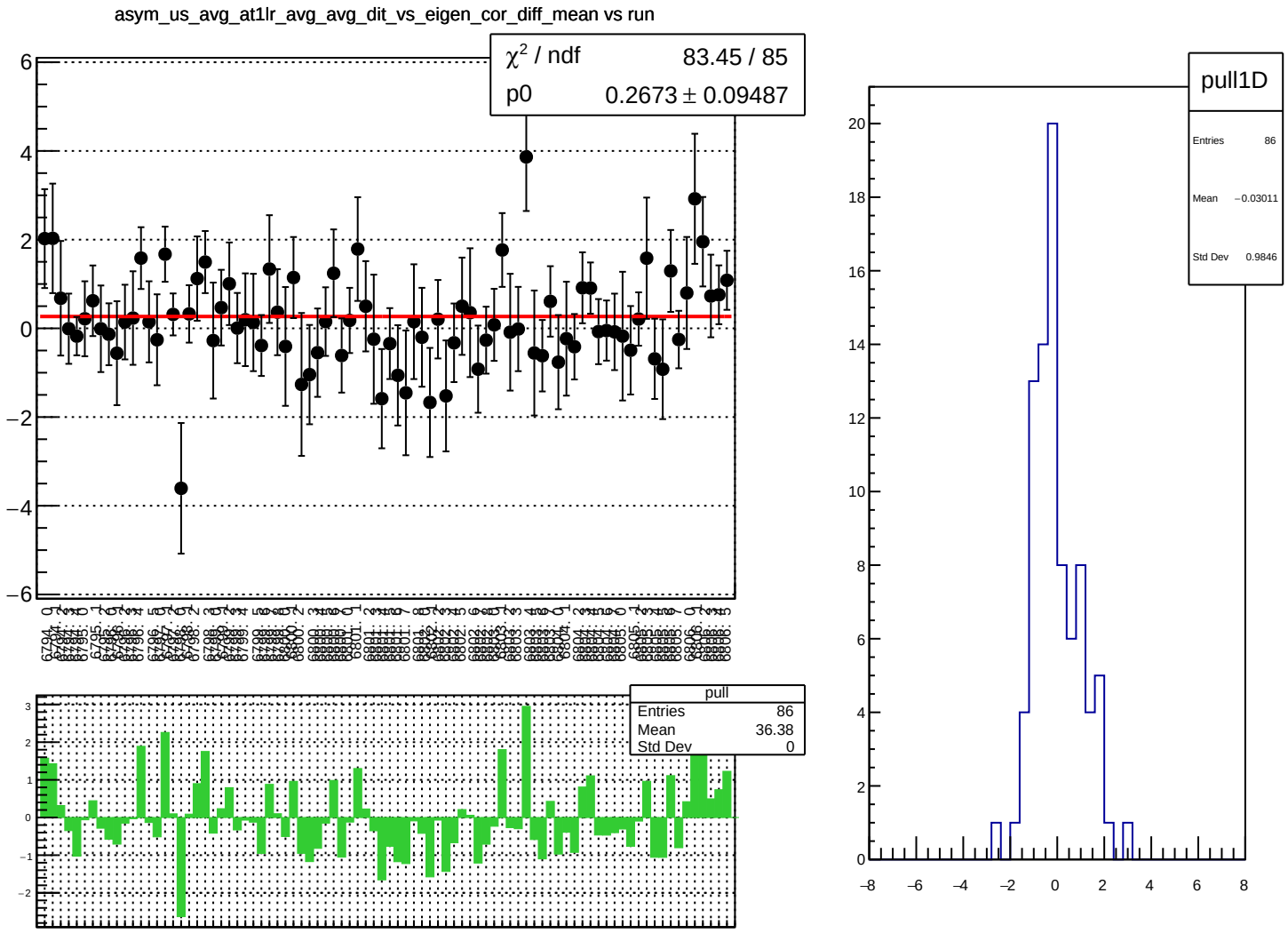

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.83 / 85
p0 −4.223e−14 ± 5.49e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 38.68
Std Dev 7.992
pull1D
Entries 86
Mean 0.07935
Std Dev 0.9041

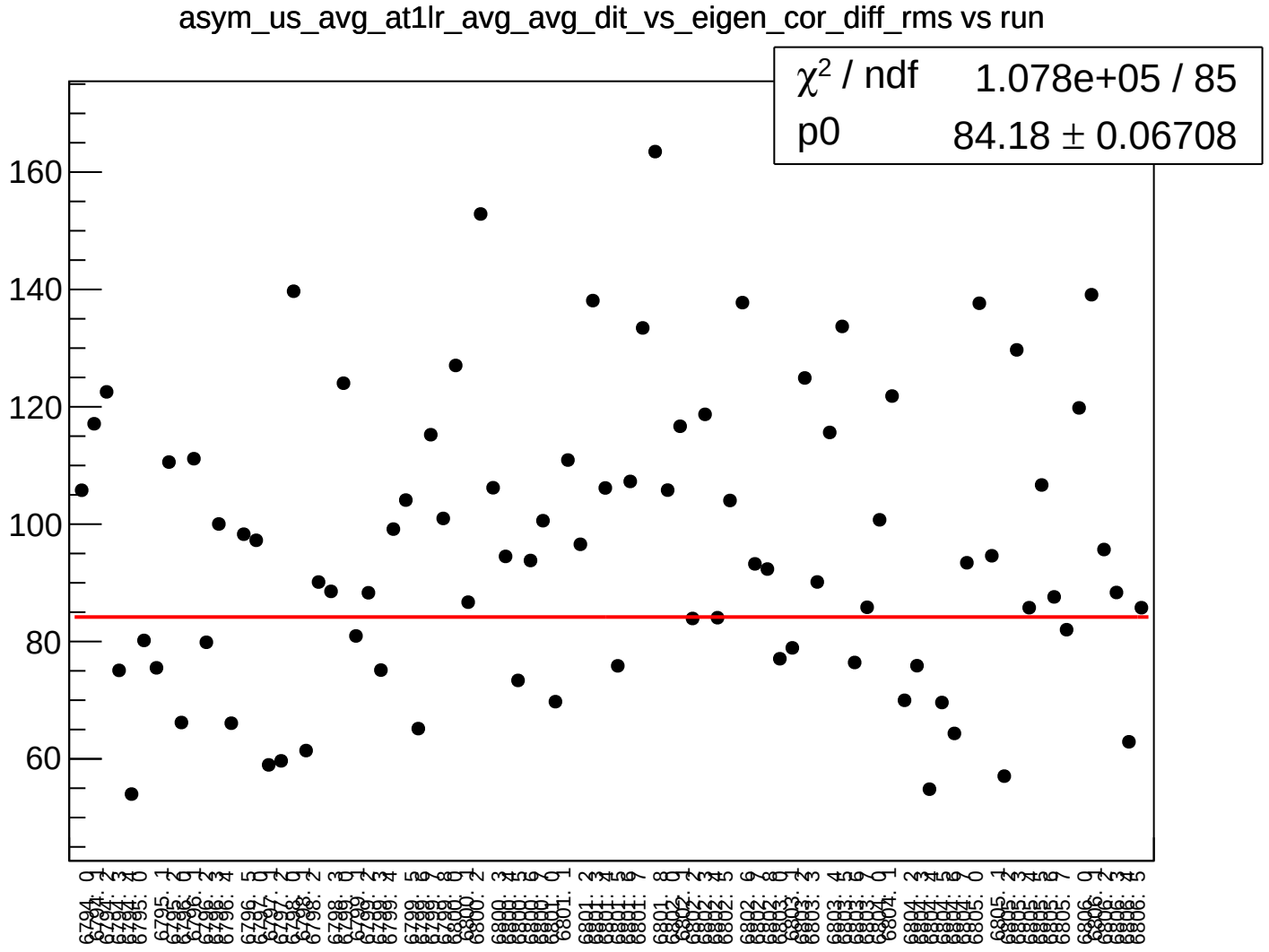

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 85
p0 3.146e−11 ± 3.882e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

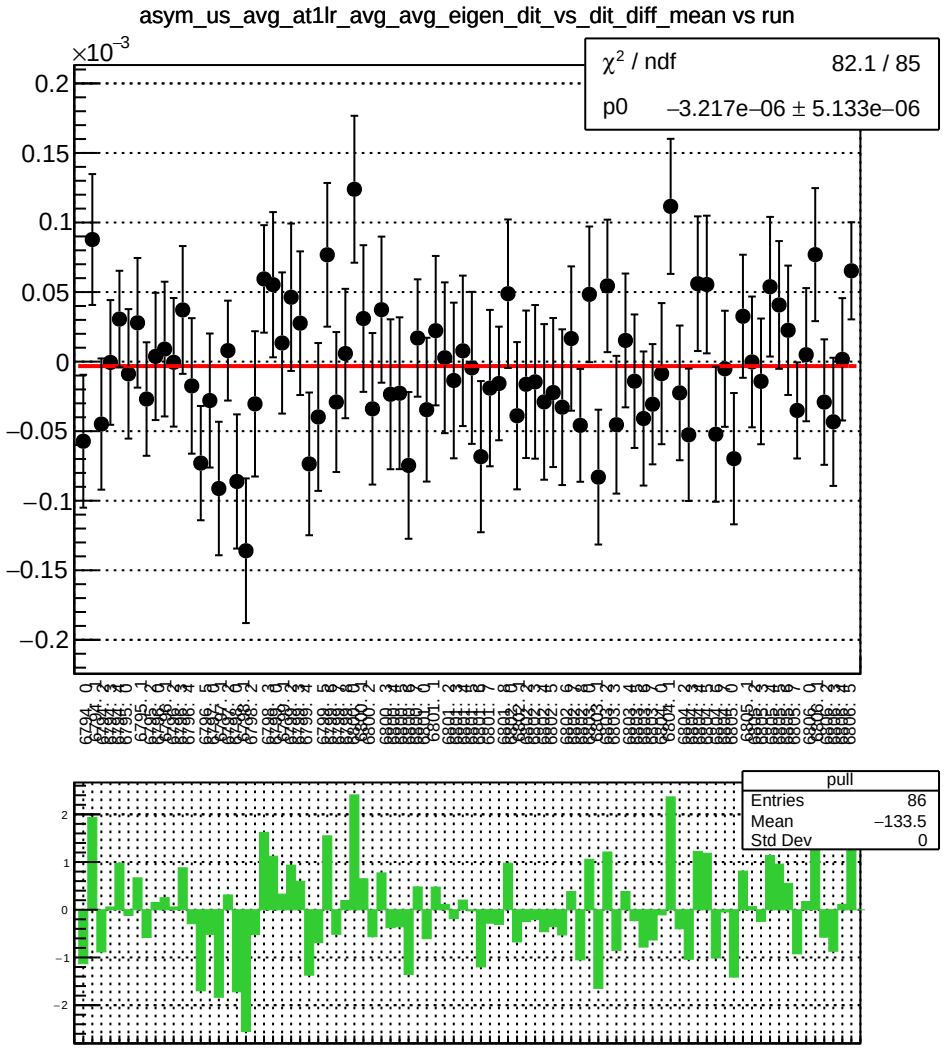

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 85
p0 0.2673 ± 0.09487
pull
Entries 86
Mean 36.38
Std Dev 0

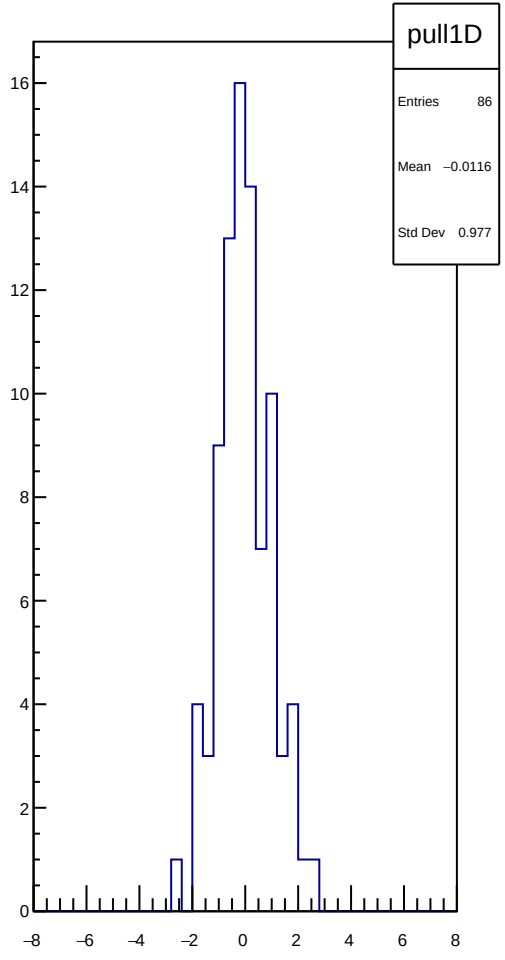

pull1D
Entries 86
Mean −0.03011
Std Dev 0.9846

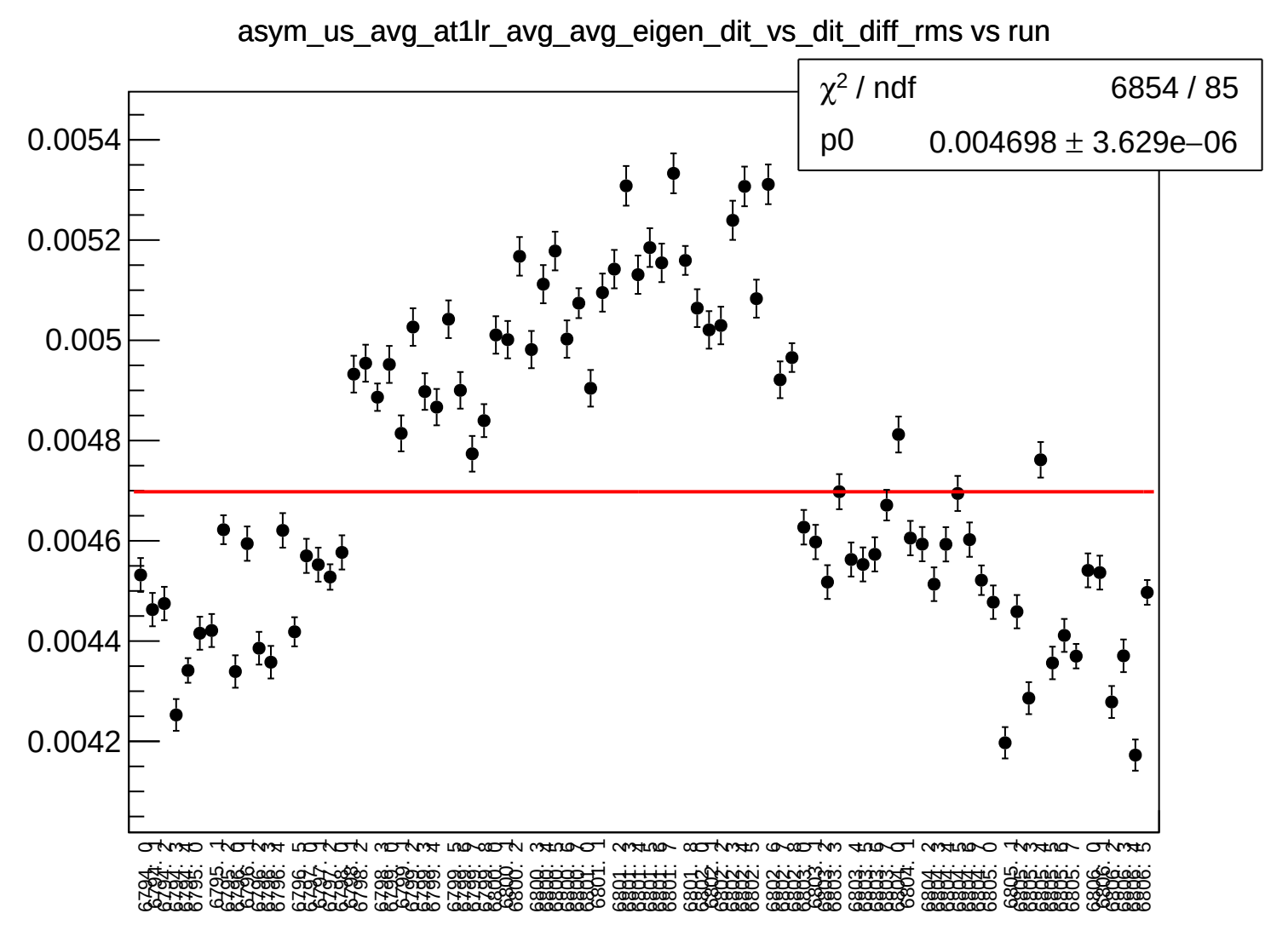

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.078e+05 / 85
p0 84.18 ± 0.06708
160
140
120
100
80
60

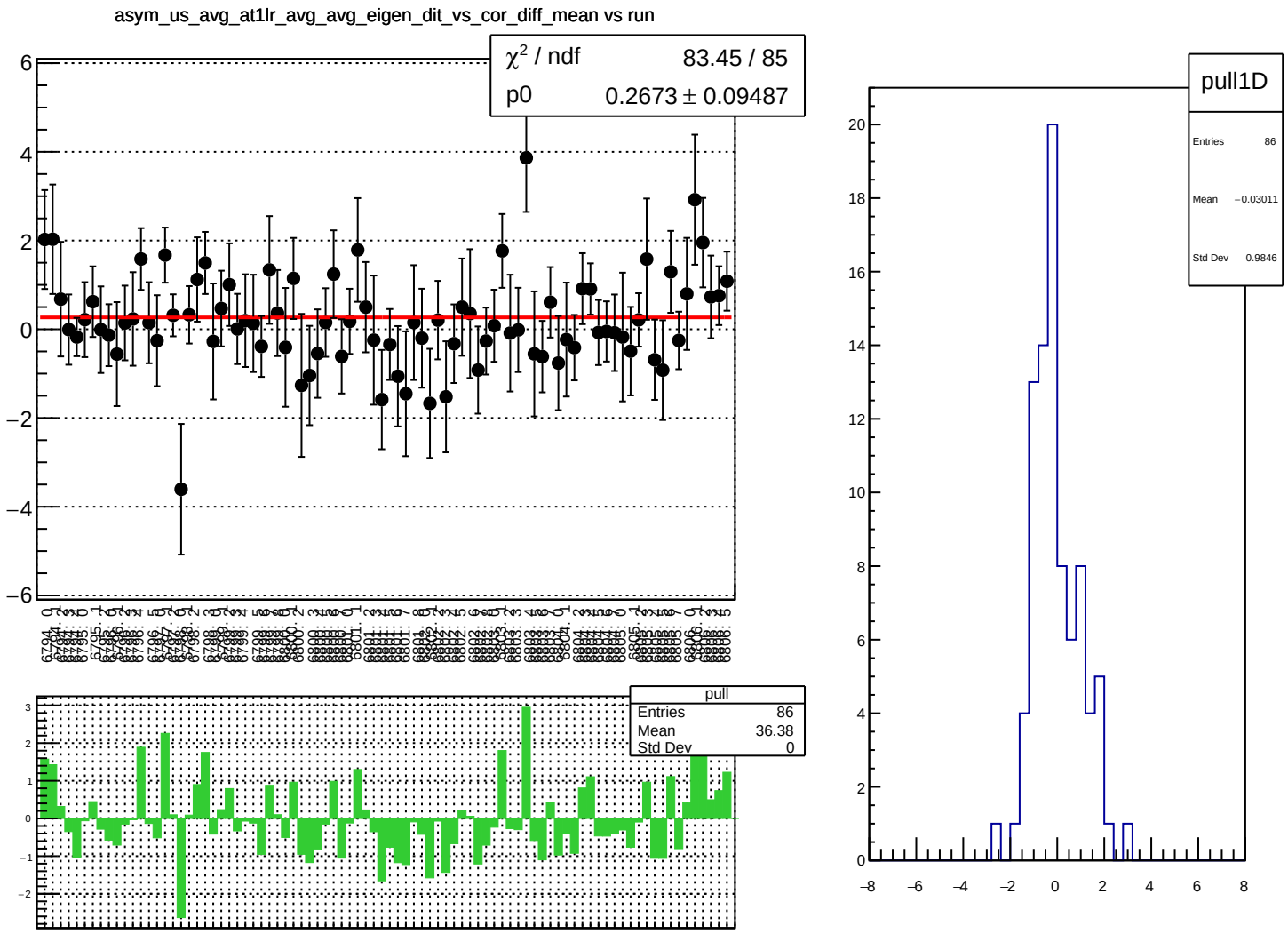

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 85
p0 0.2673 ± 0.09487
pull
Entries 86
Mean 36.38
Std Dev 0
pull1D
Entries 86
Mean −0.03011
Std Dev 0.9846

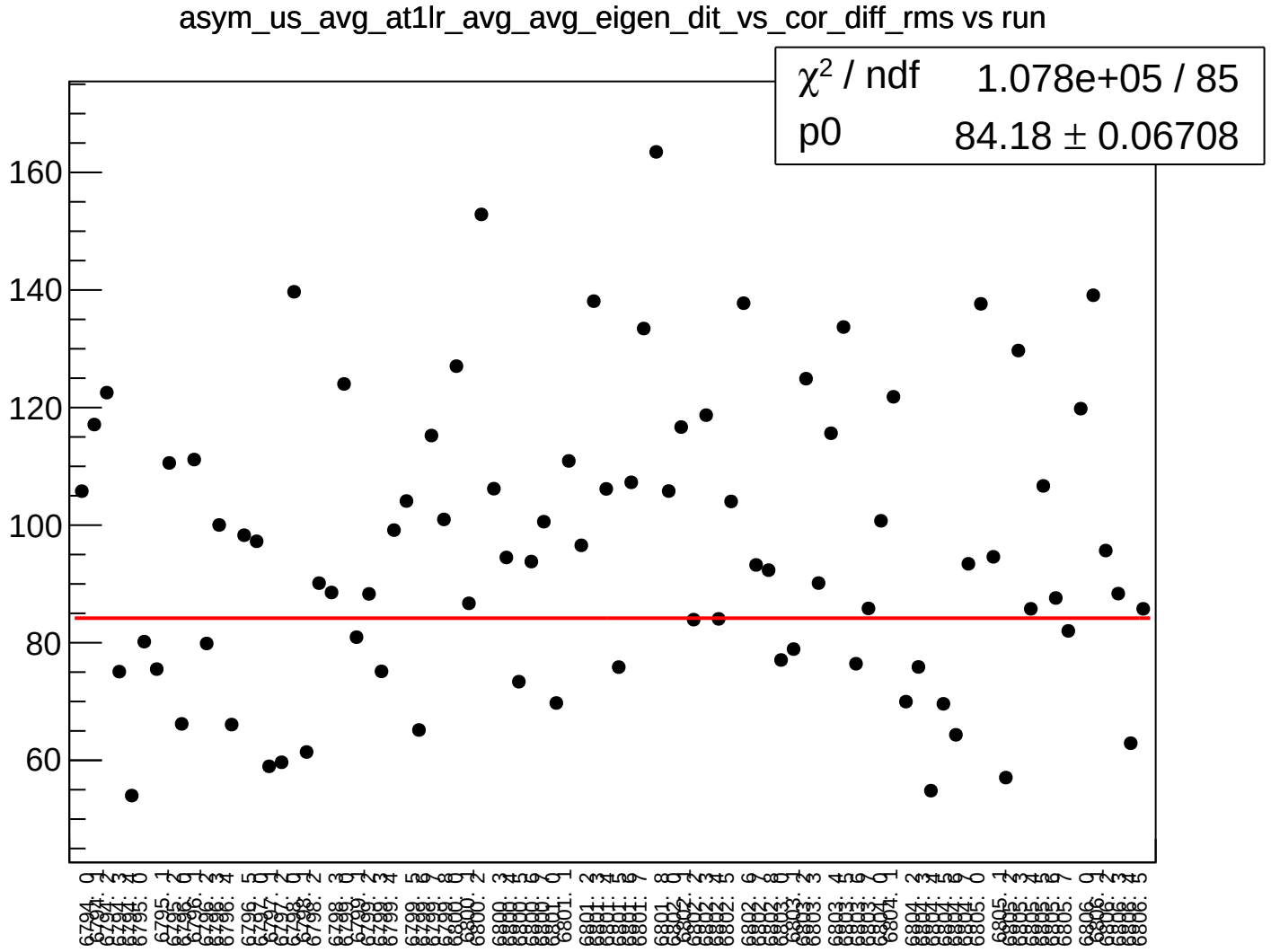

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.078e+05 / 85
p0 84.18 ± 0.06708
160
140
120
100
80
60

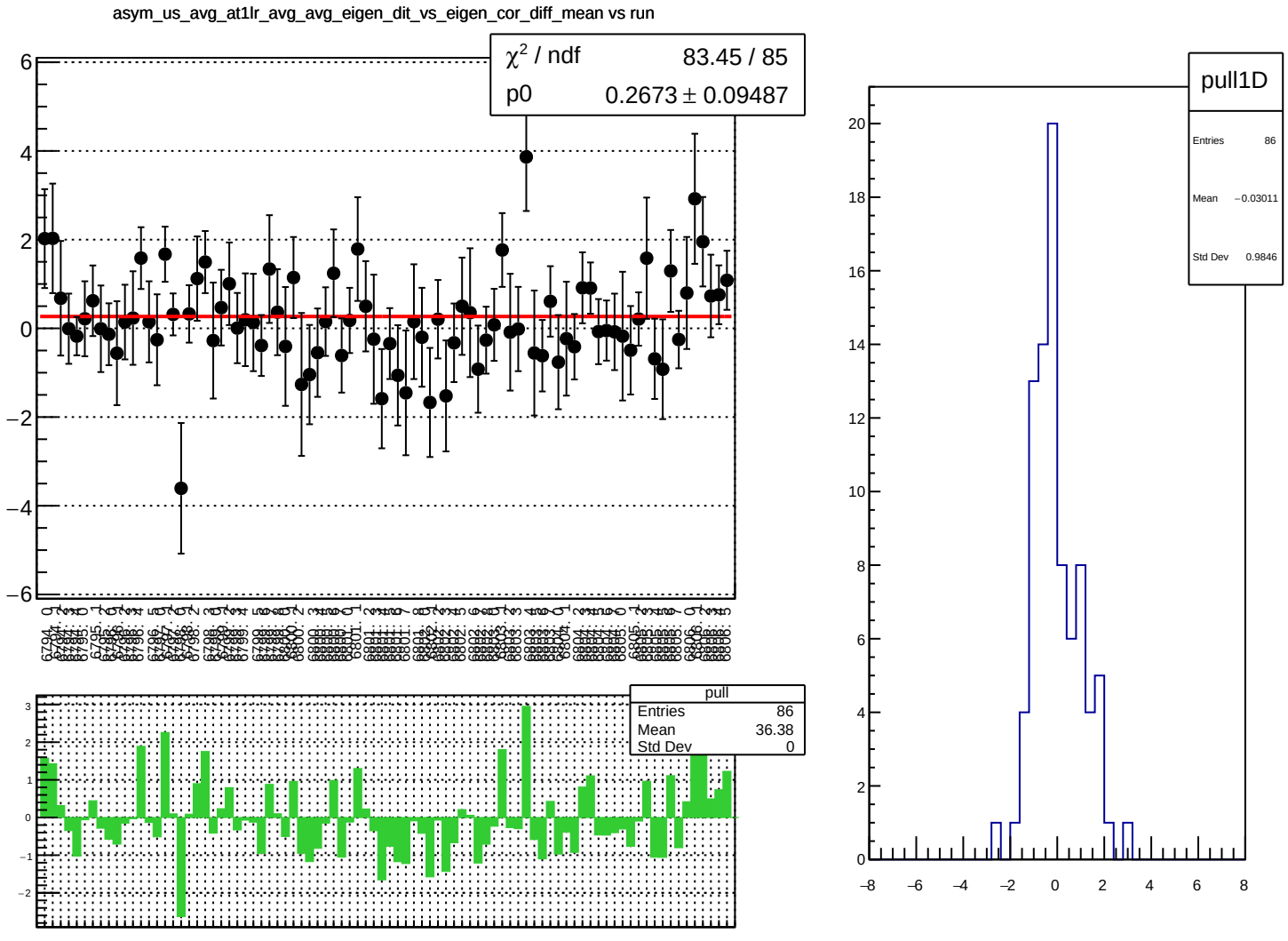

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.1 / 85
p0 −3.217e−06 ± 5.133e−06
pull
Entries 86
Mean −133.5
Std Dev 0

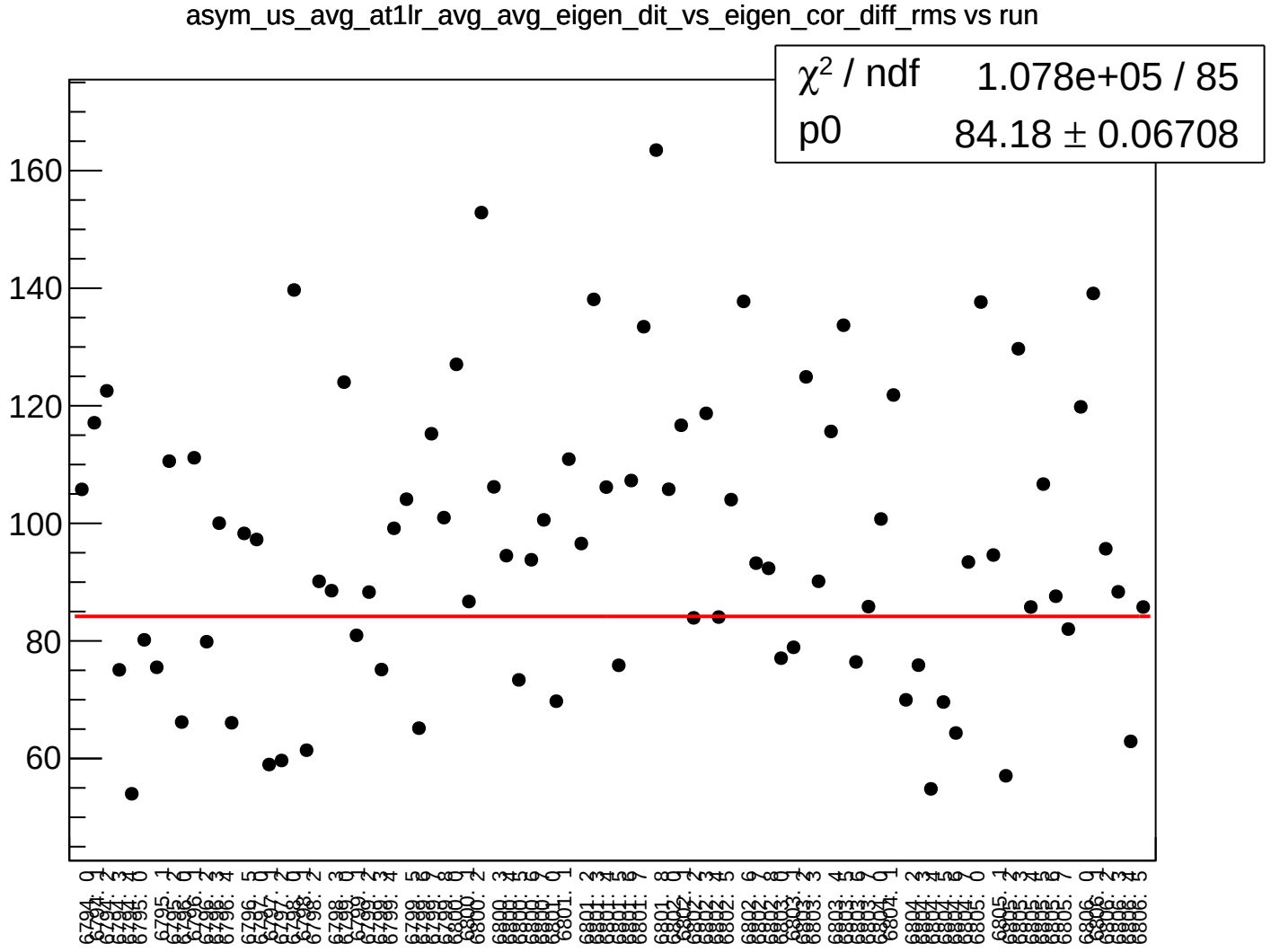

pull1D
Entries 86
Mean −0.0116
Std Dev 0.977

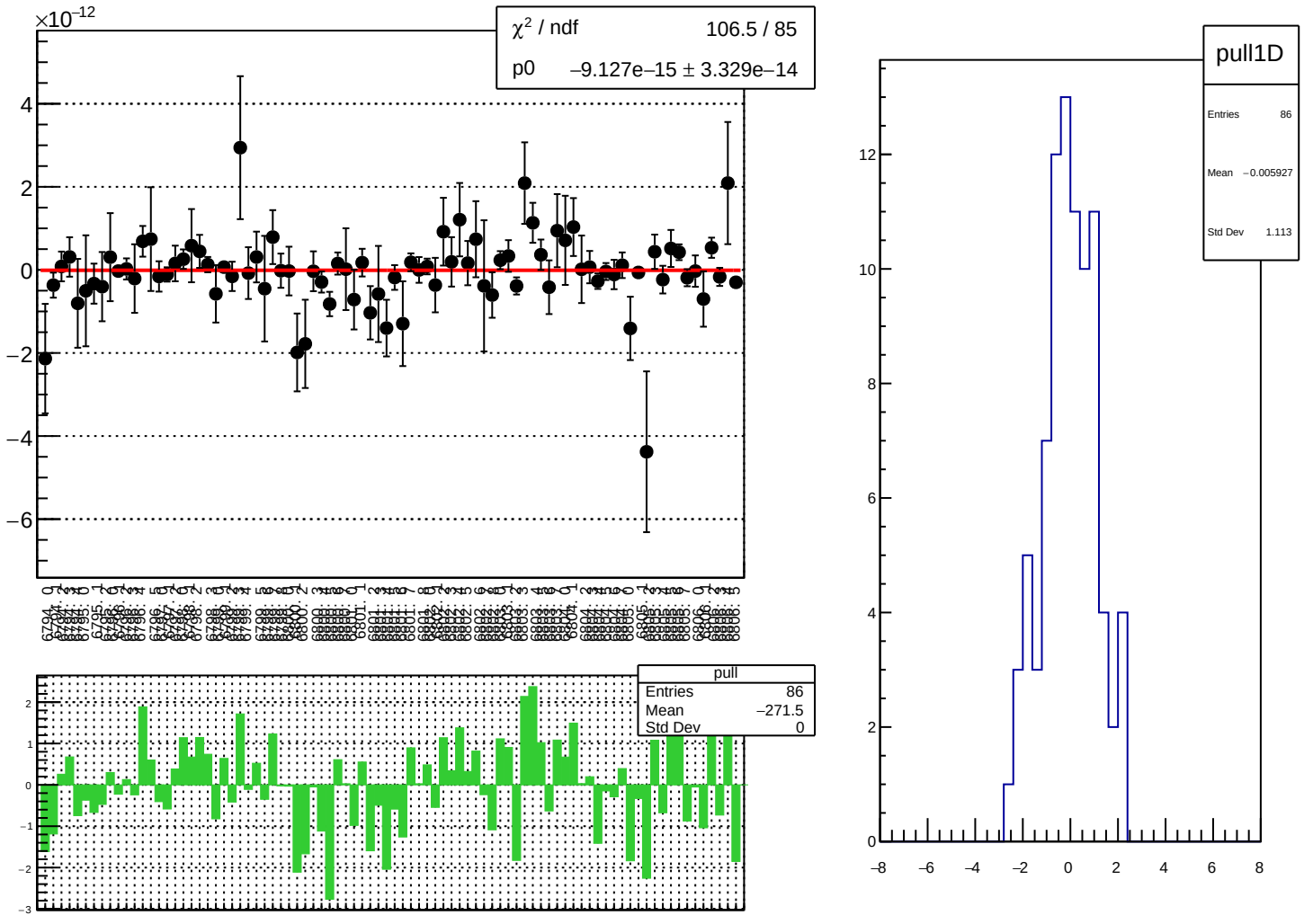

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6854 / 85
p0 0.004698 ± 3.629e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042

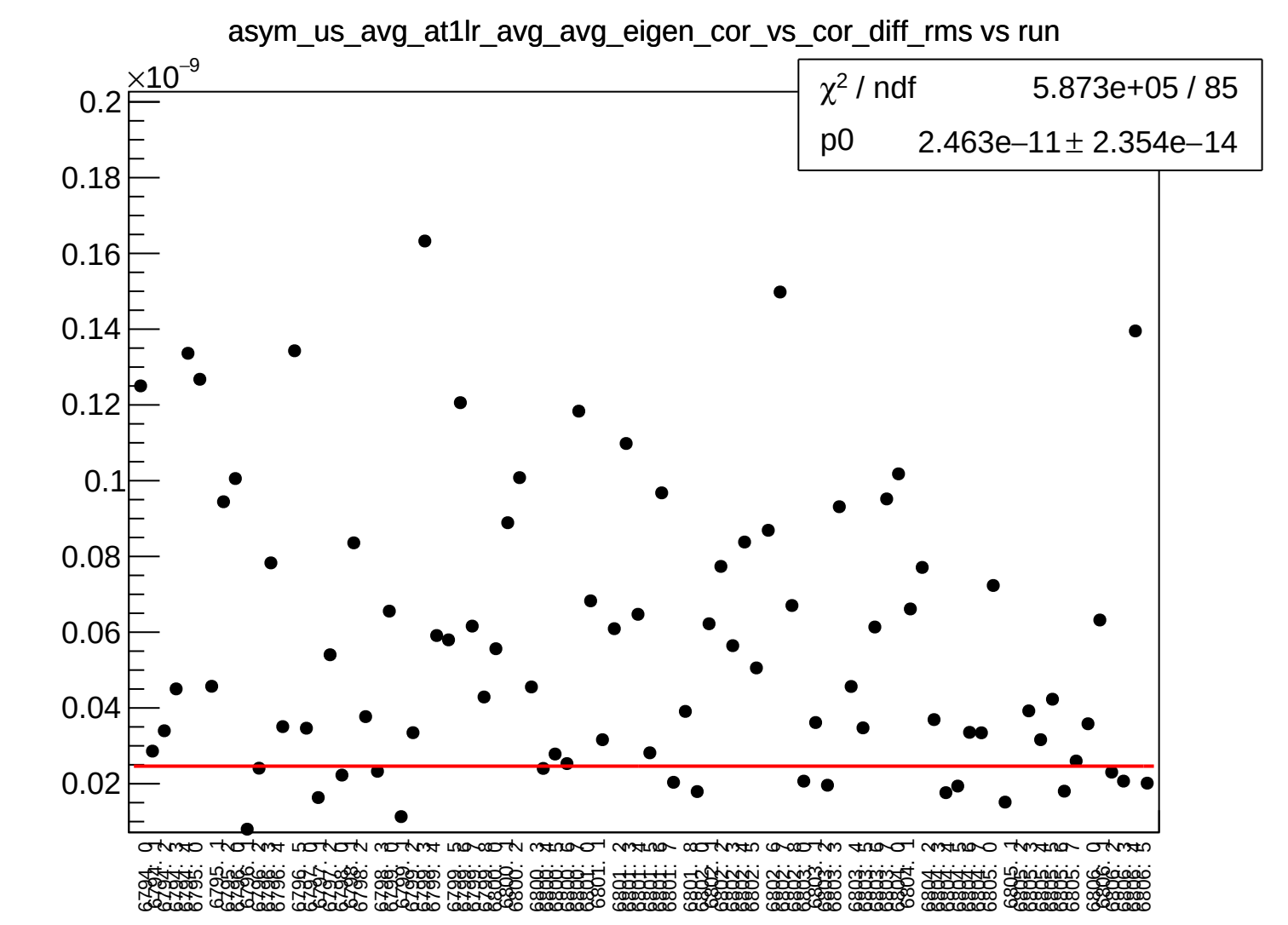

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.45 / 85
p0 0.2673 ± 0.09487
pull
Entries 86
Mean 36.38
Std Dev 0
pull1D
Entries 86
Mean −0.03011
Std Dev 0.9846

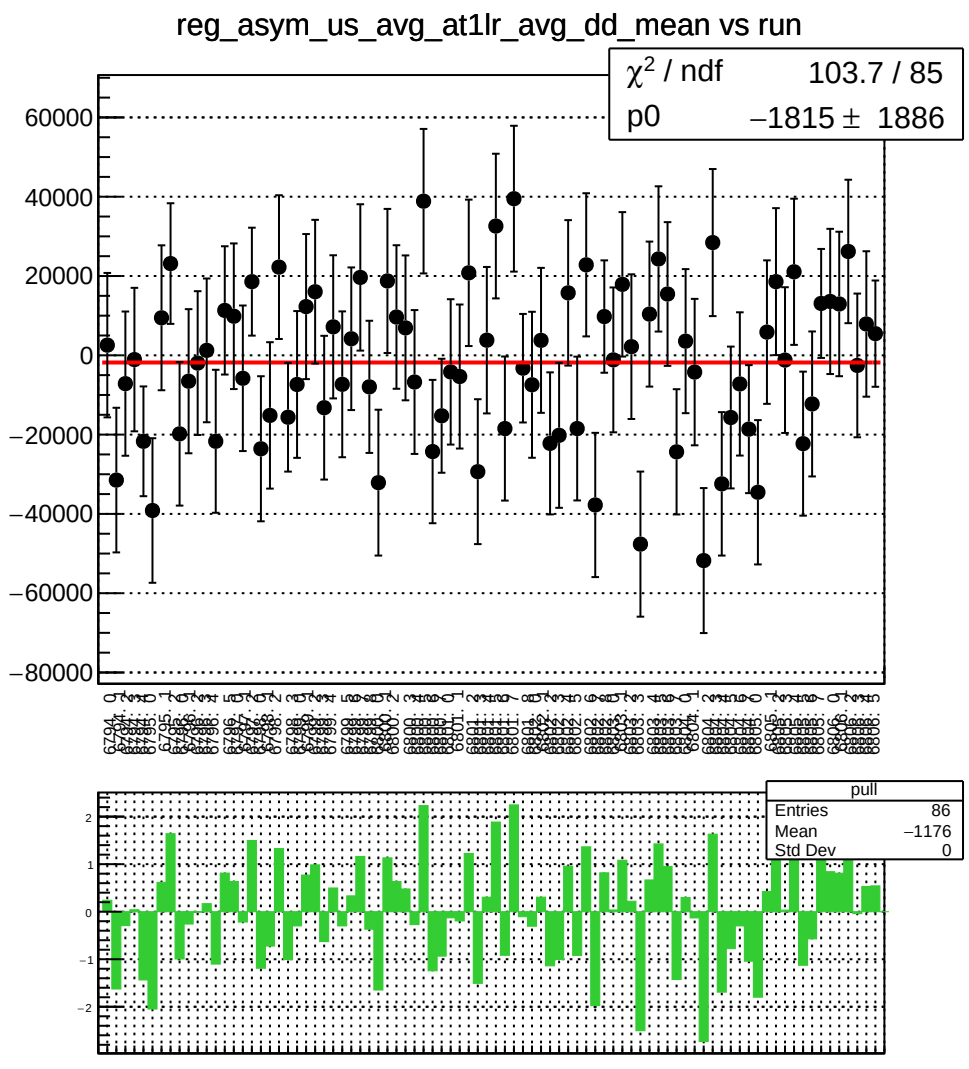

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.078e+05 / 85
p0 84.18 ± 0.06708
160
140
120
100
80
60

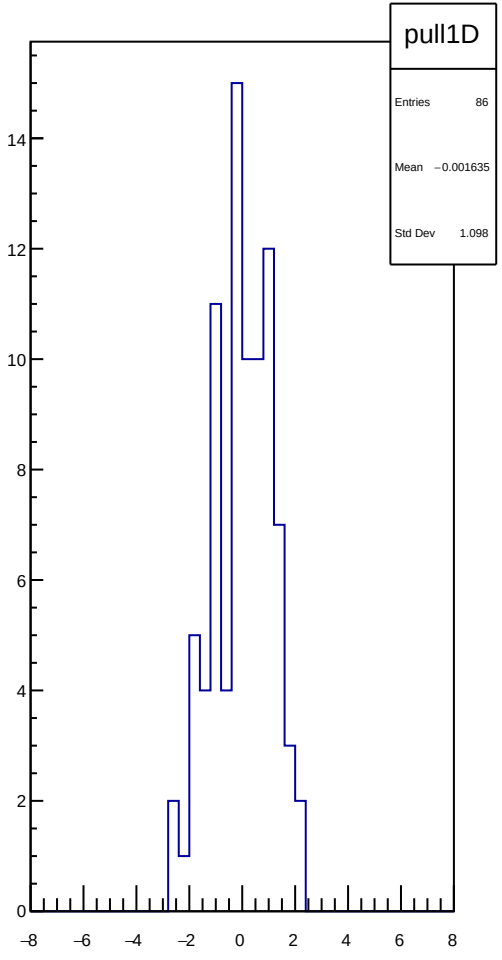

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.45 / 85
p0 0.2673 ± 0.09487
pull
Entries 86
Mean 36.38
Std Dev 0
pull1D
Entries 86
Mean −0.03011
Std Dev 0.9846

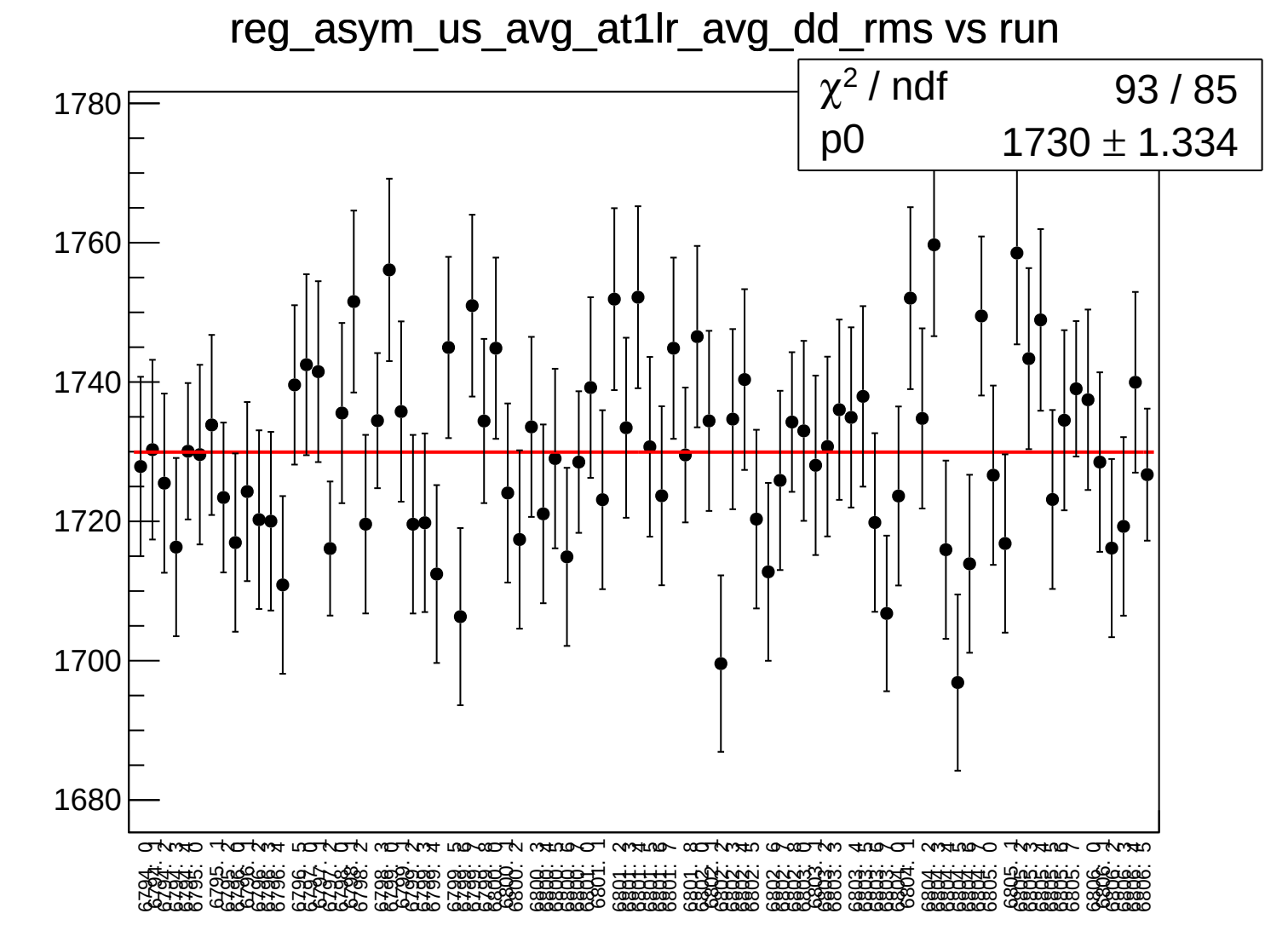

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.078e+05 / 85
p0 84.18 ± 0.06708
160
140
120
100
80
60

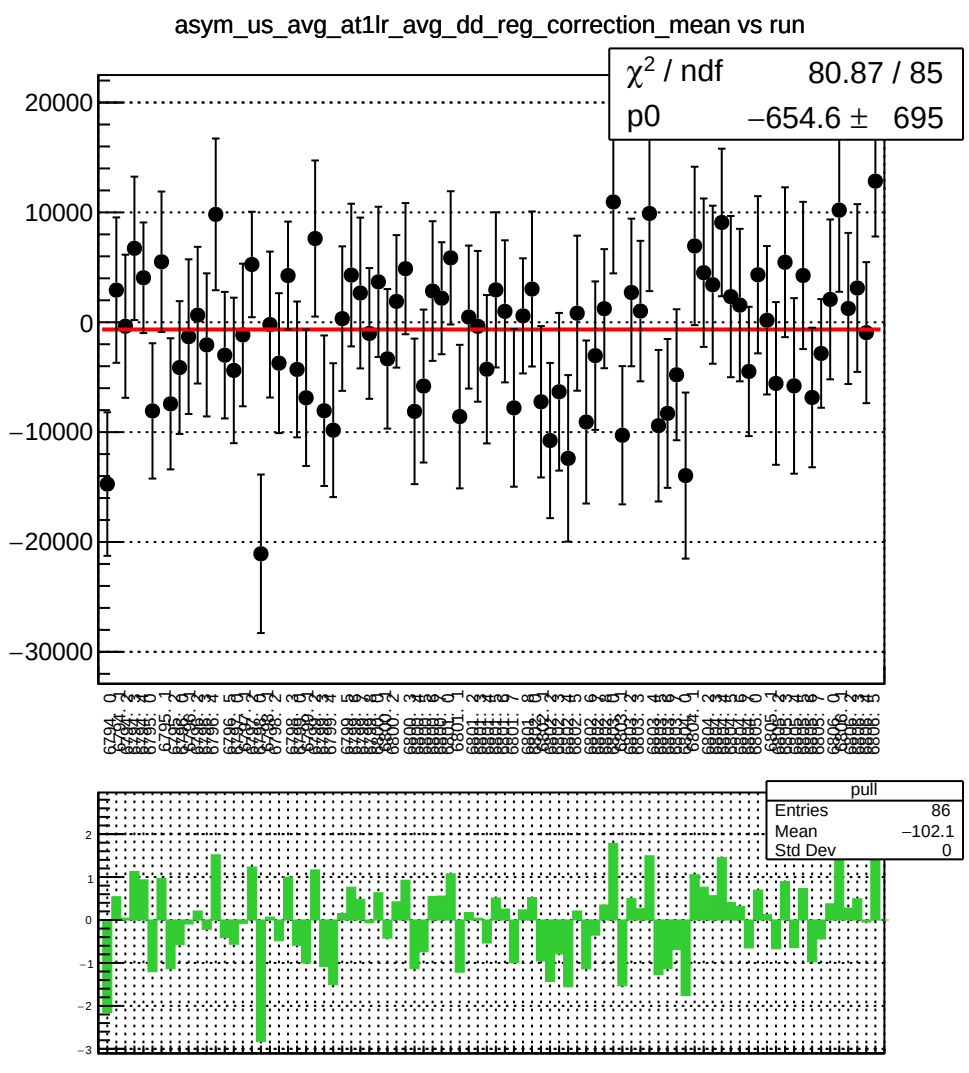

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106.5 / 85
p0 −9.127e−15 ± 3.329e−14
pull
Entries 86
Mean −271.5
Std Dev 0
pull1D
Entries 86
Mean −0.005927
Std Dev 1.113

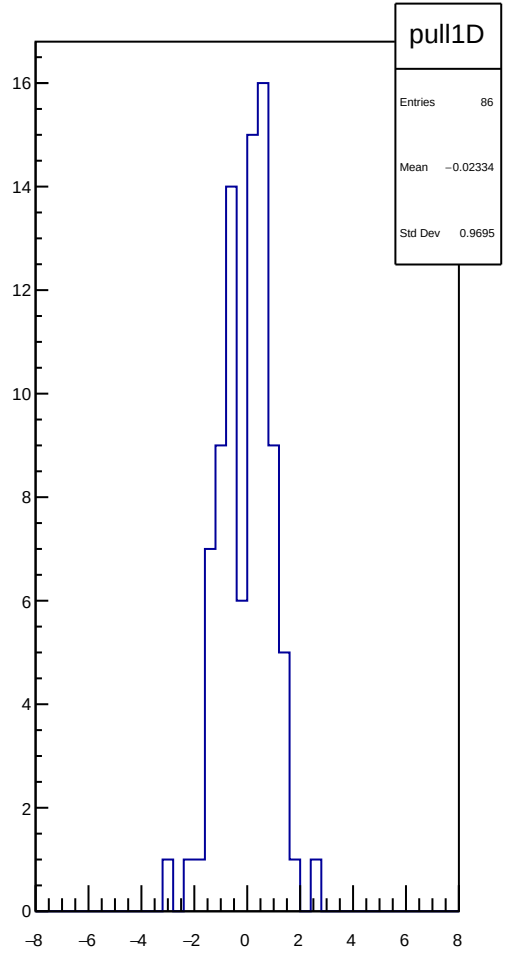

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.873e+05 / 85
p0 2.463e−11 ± 2.354e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

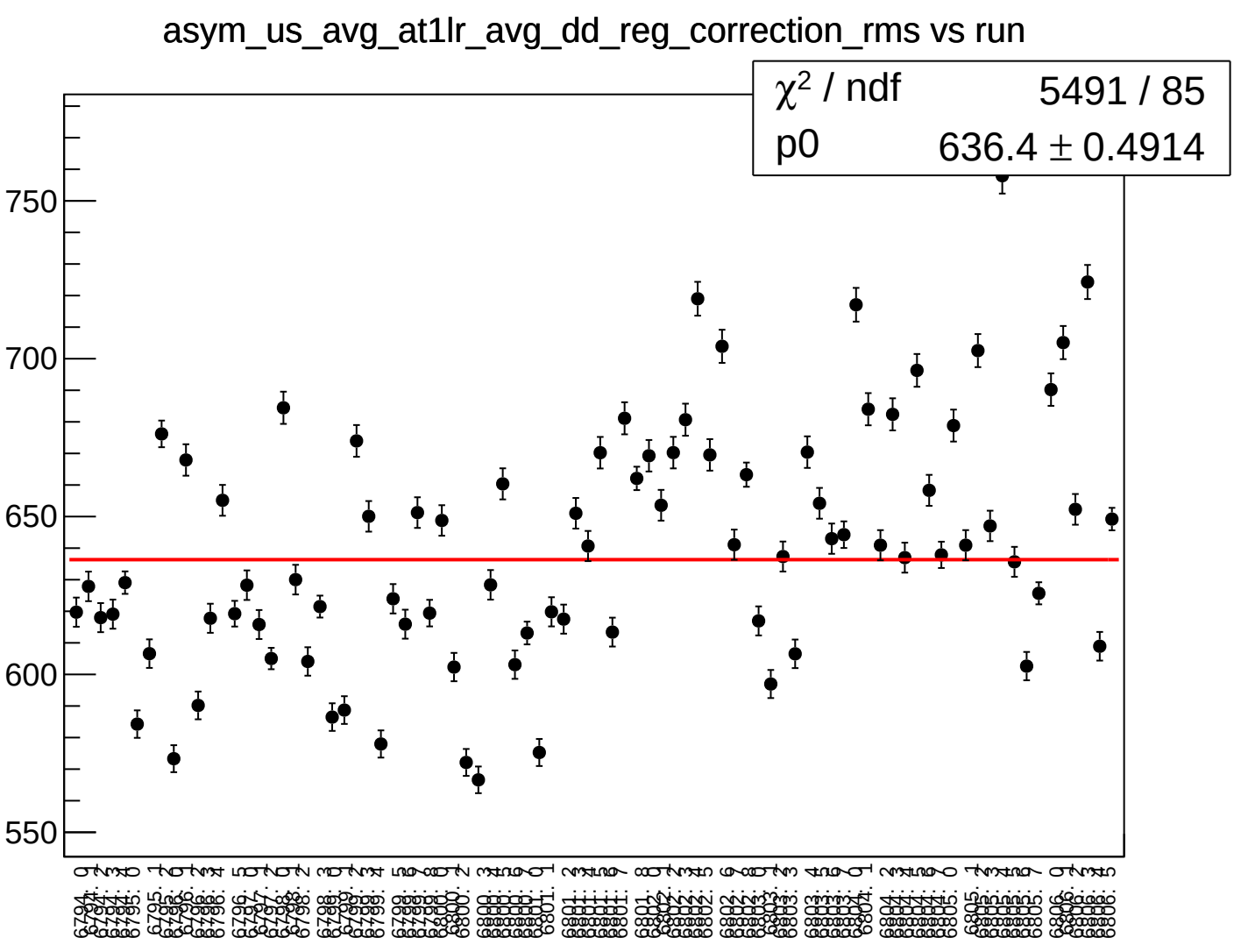

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 103.7 / 85
p0 −1815 ± 1886
pull
Entries 86
Mean −1176
Std Dev 0

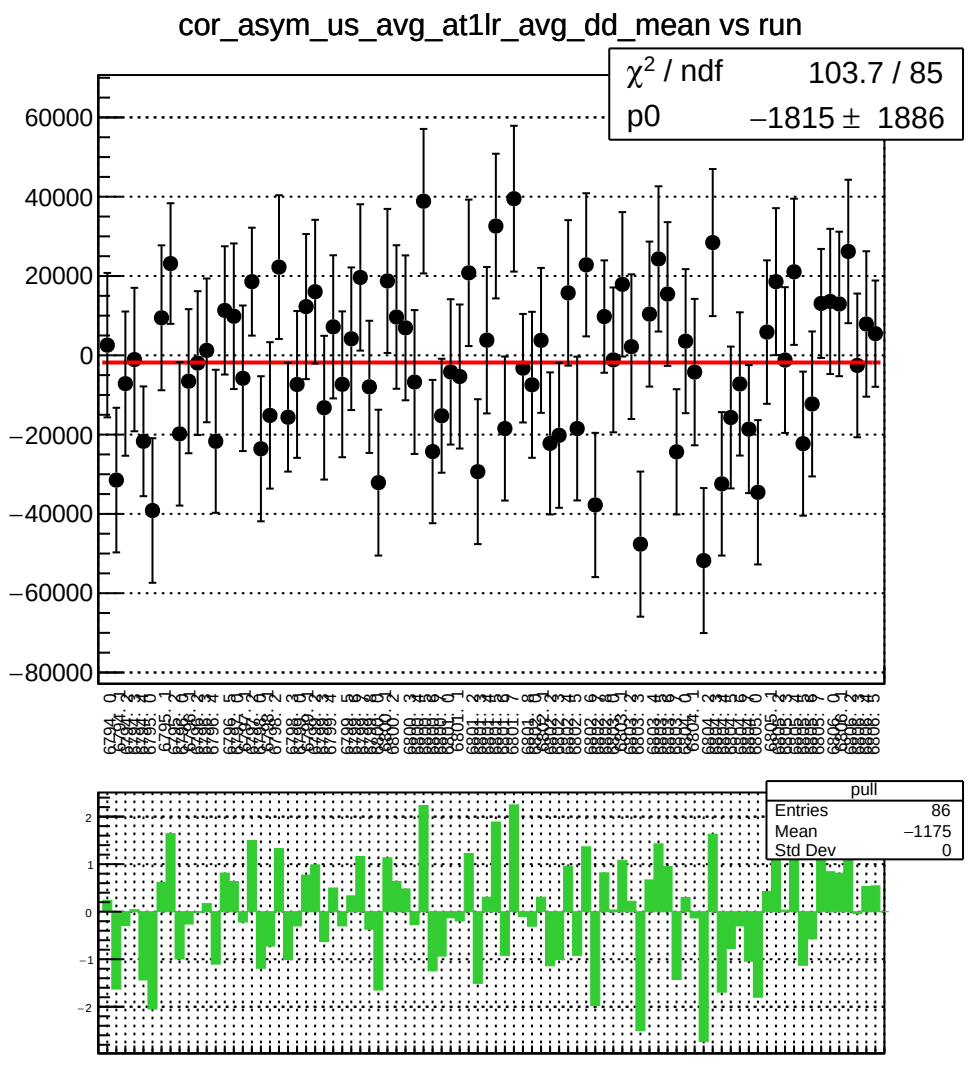

pull1D
Entries 86
Mean −0.001635
Std Dev 1.098

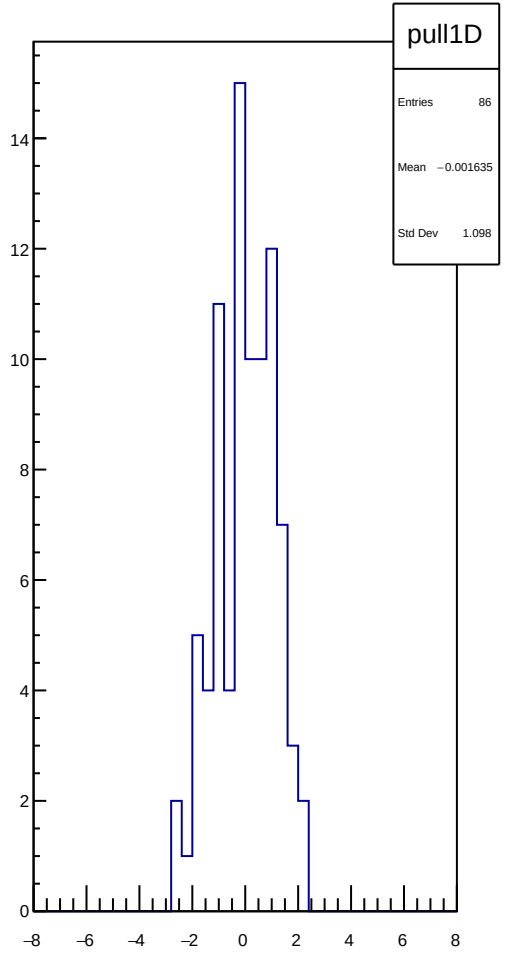

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 93 / 85
p0 1730 ± 1.334
1780
1760
1740
1720
1700
1680

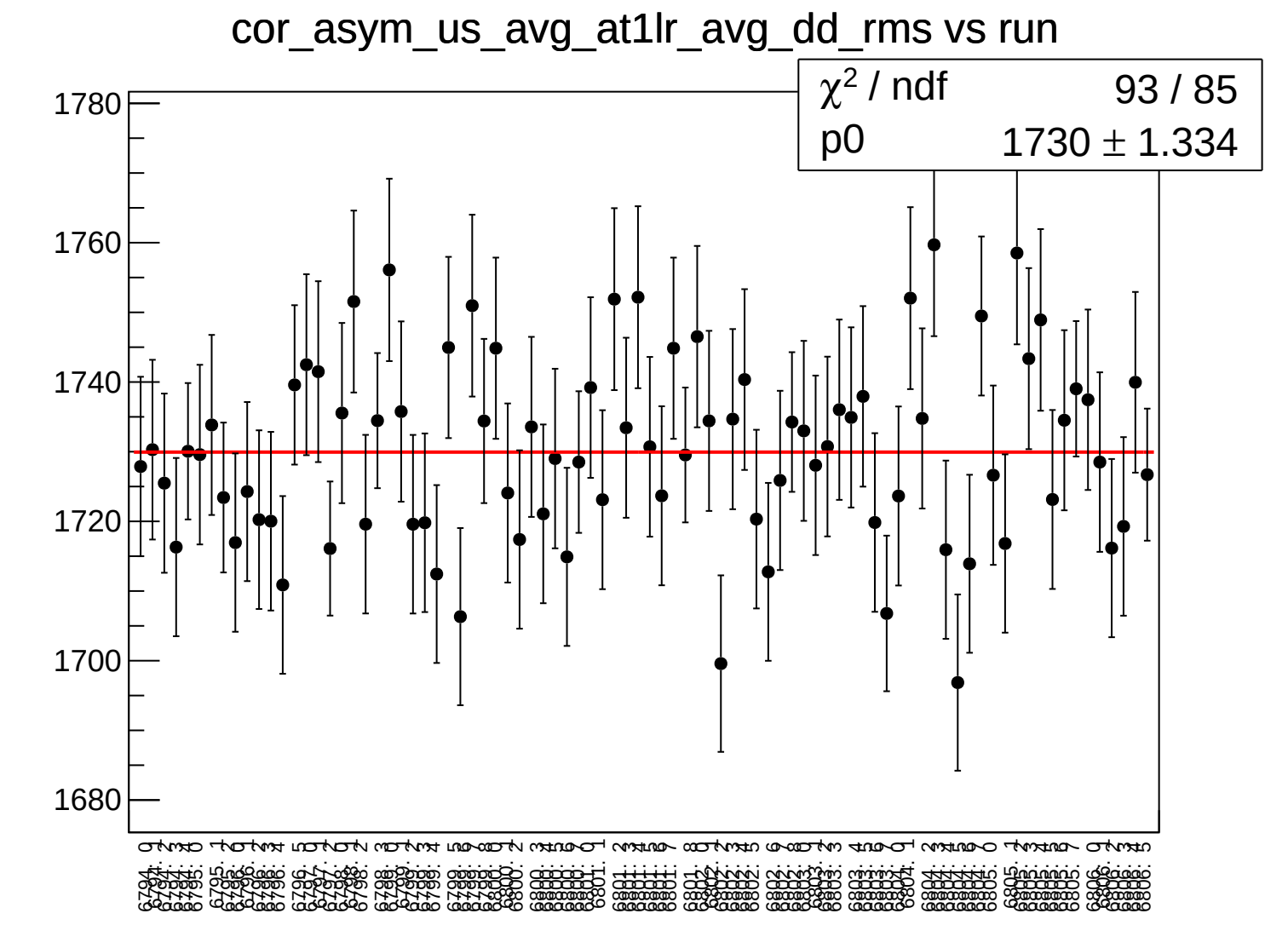

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 80.87 / 85
p0 −654.6 ± 695
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −102.1
Std Dev 0
2
1
0
−1
−2
−3

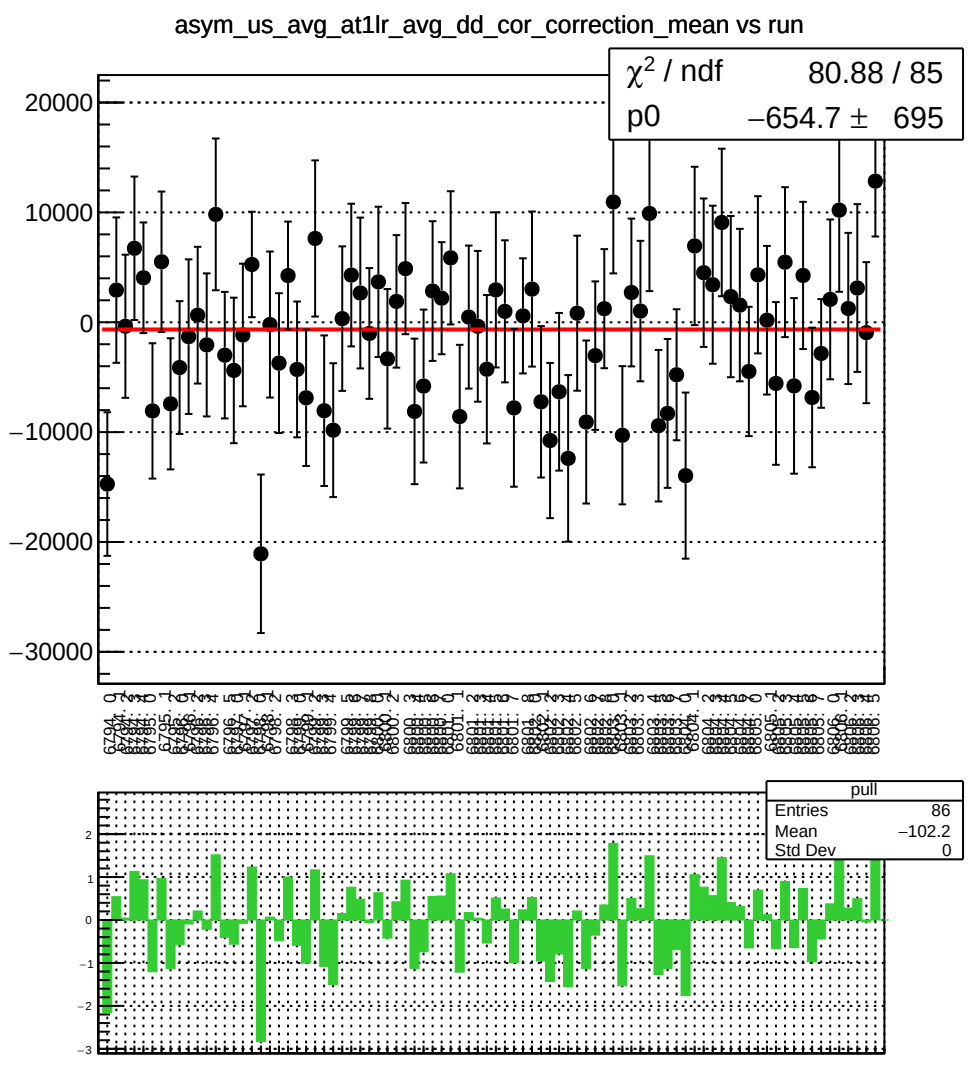

pull1D
Entries 86
Mean −0.02334
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

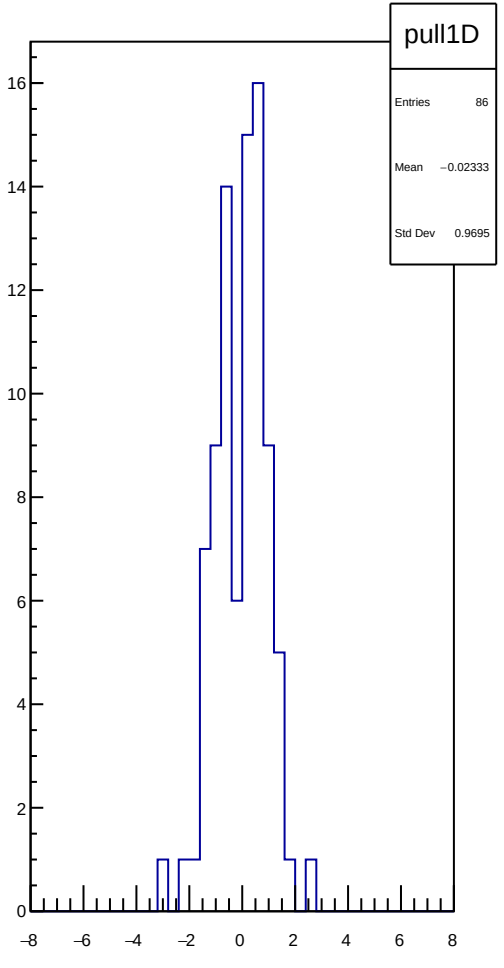

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5491 / 85
p0 636.4 ± 0.4914
750
700
650
600
550

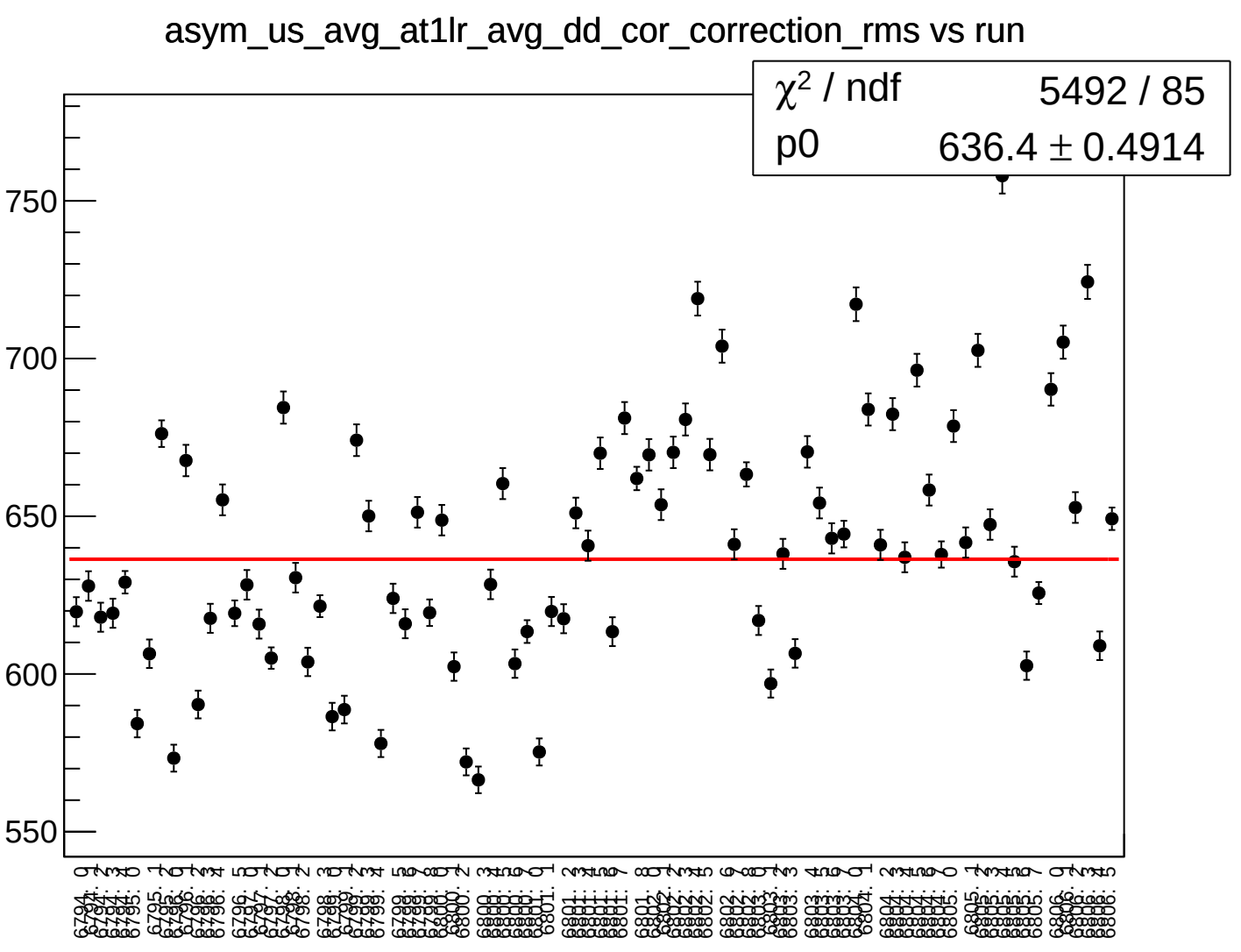

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 103.7 / 85
p0 −1815 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −1175
Std Dev 0
2
1
0
−1
−2

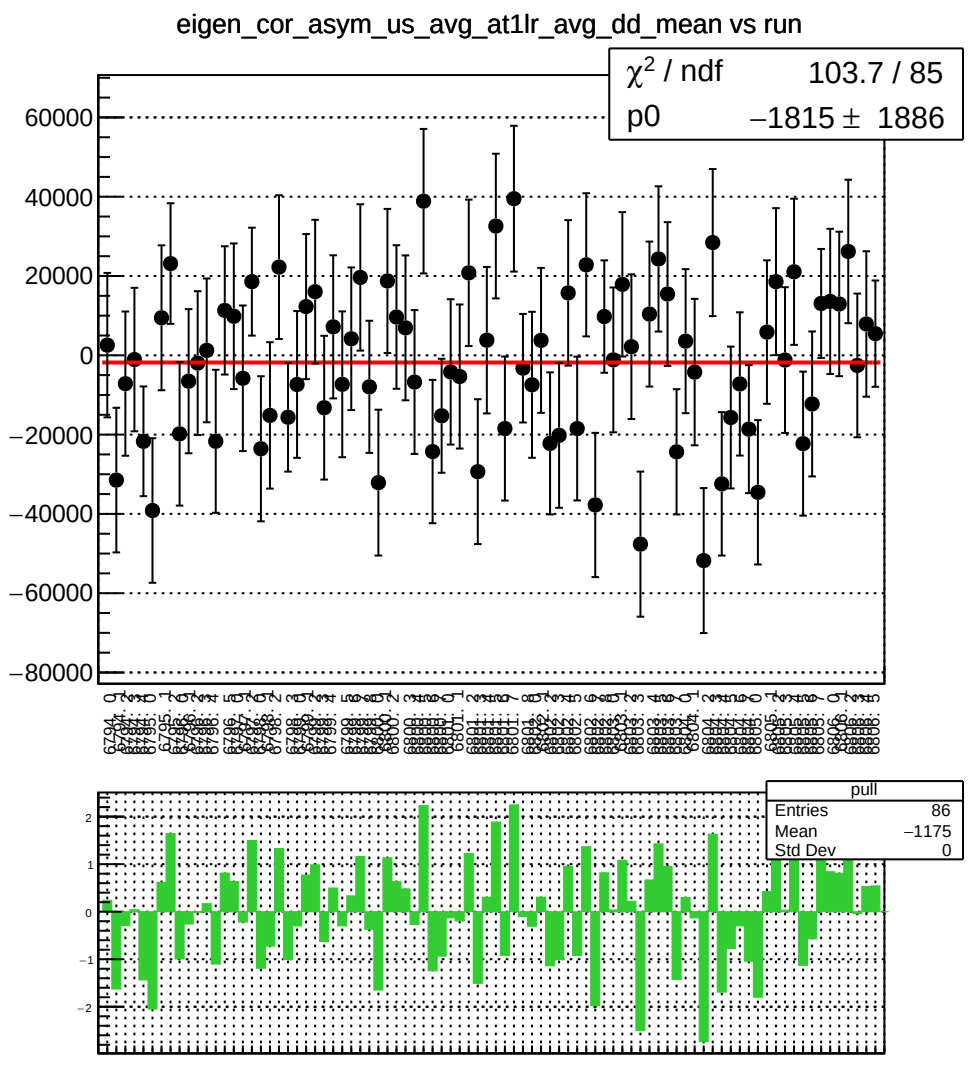

pull1D
Entries 86
Mean −0.001635
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

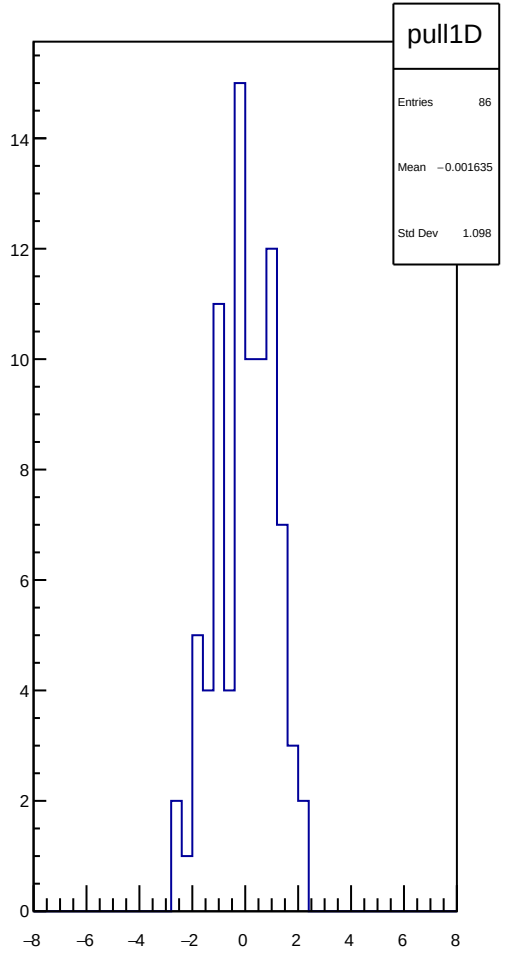

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 93 / 85
p0 1730 ± 1.334
1780
1760
1740
1720
1700
1680

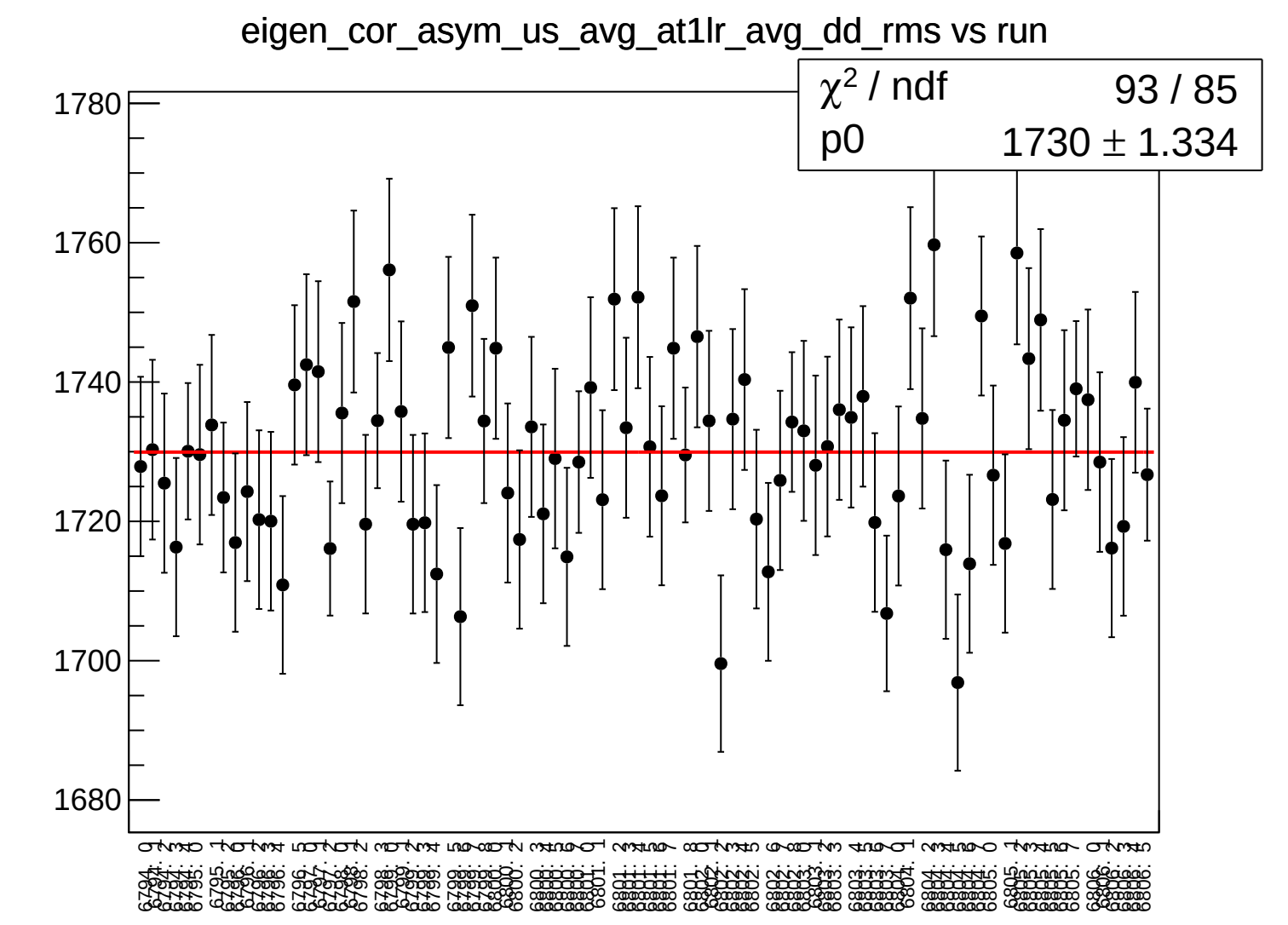

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 80.88 / 85
p0 −654.7 ± 695
pull
Entries 86
Mean −102.2
Std Dev 0

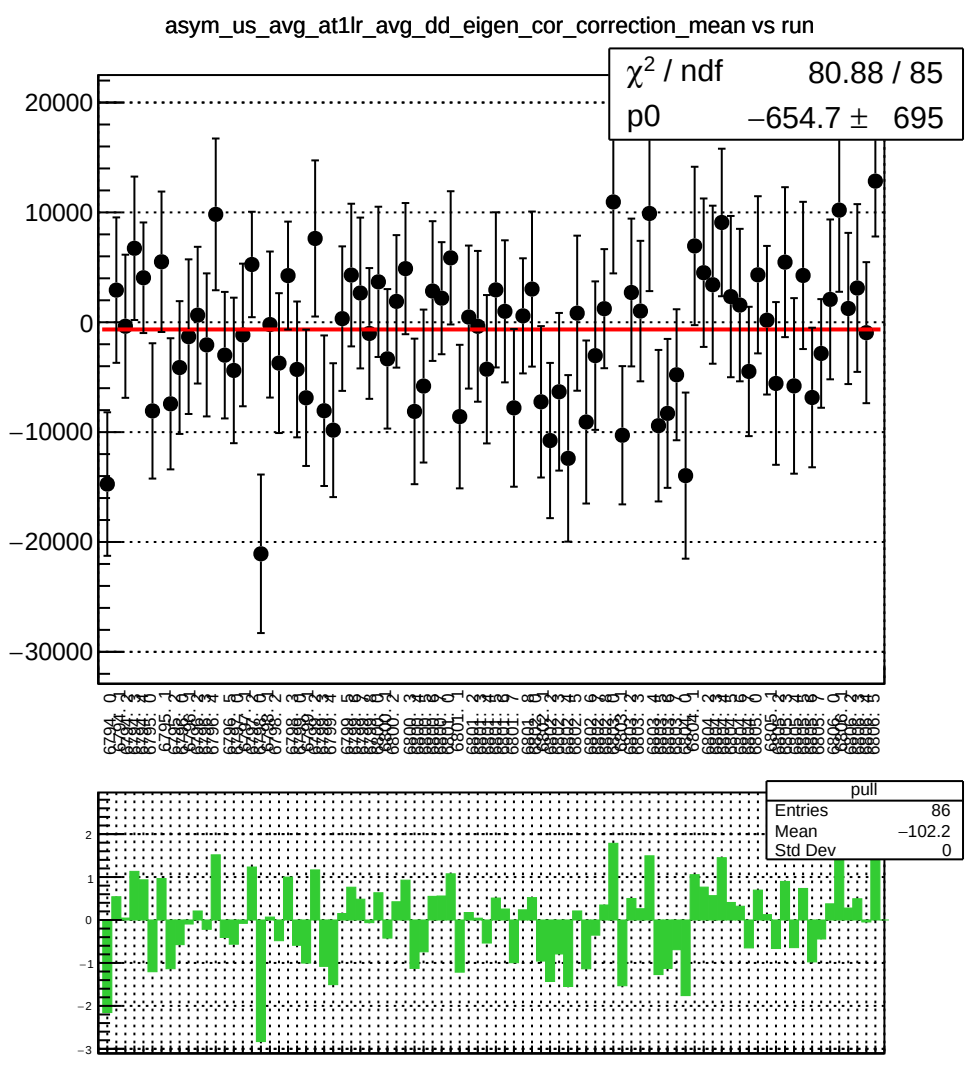

pull1D
Entries 86
Mean −0.02333
Std Dev 0.9695

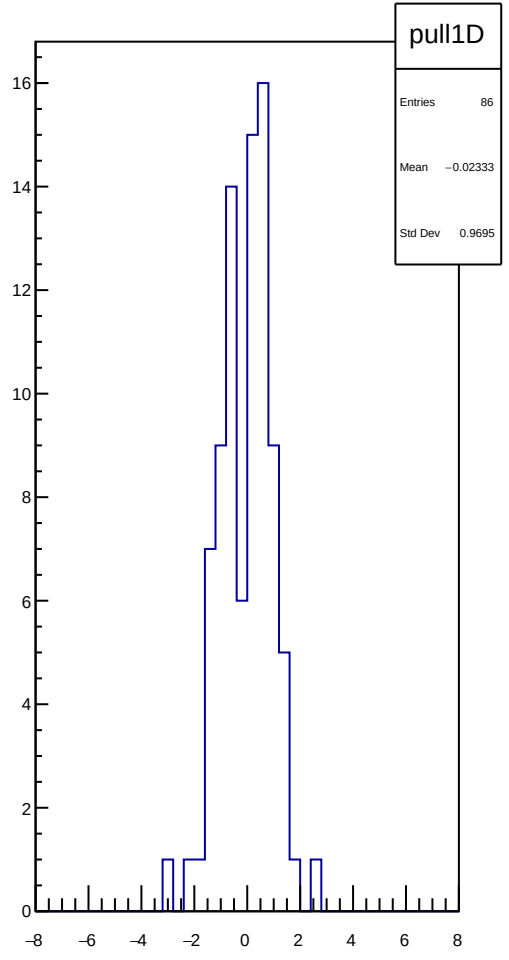

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5492 / 85
p0 636.4 ± 0.4914
750
700
650
600
550

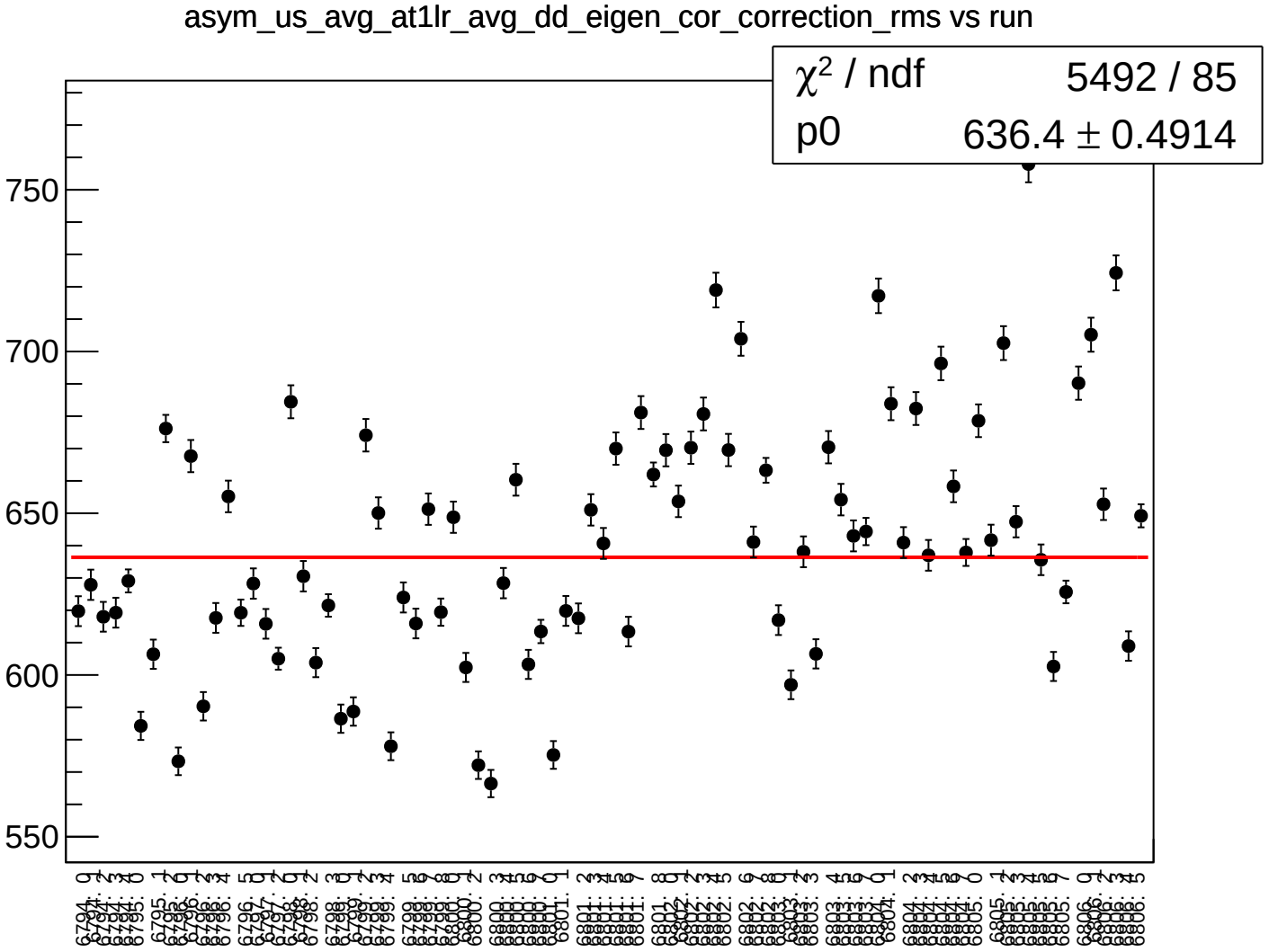

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 103.7 / 85
p0 −1815 ± 1886
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −1175
Std Dev 0
2
1
0
−1

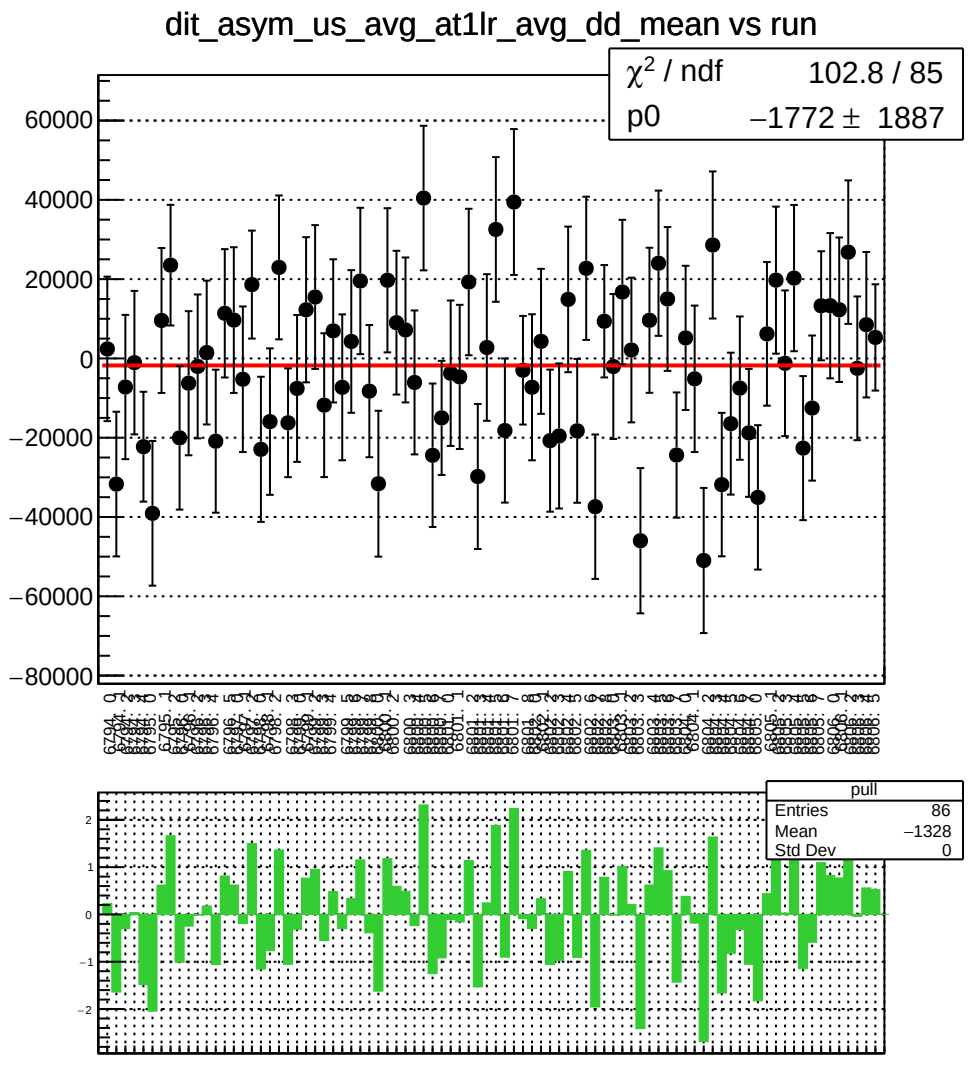

pull1D
Entries 86
Mean −0.001635
Std Dev 1.098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

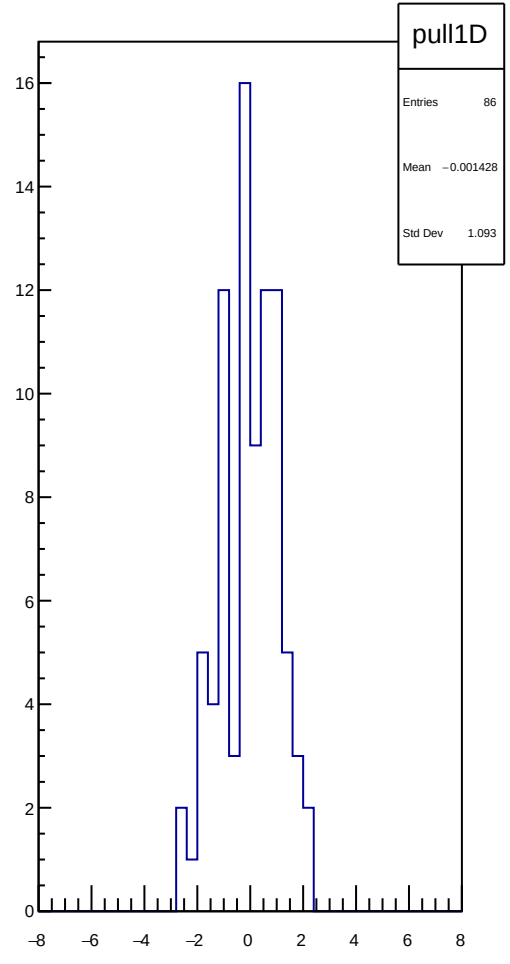

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 93 / 85
p0 1730 ± 1.334
1780
1760
1740
1720
1700
1680

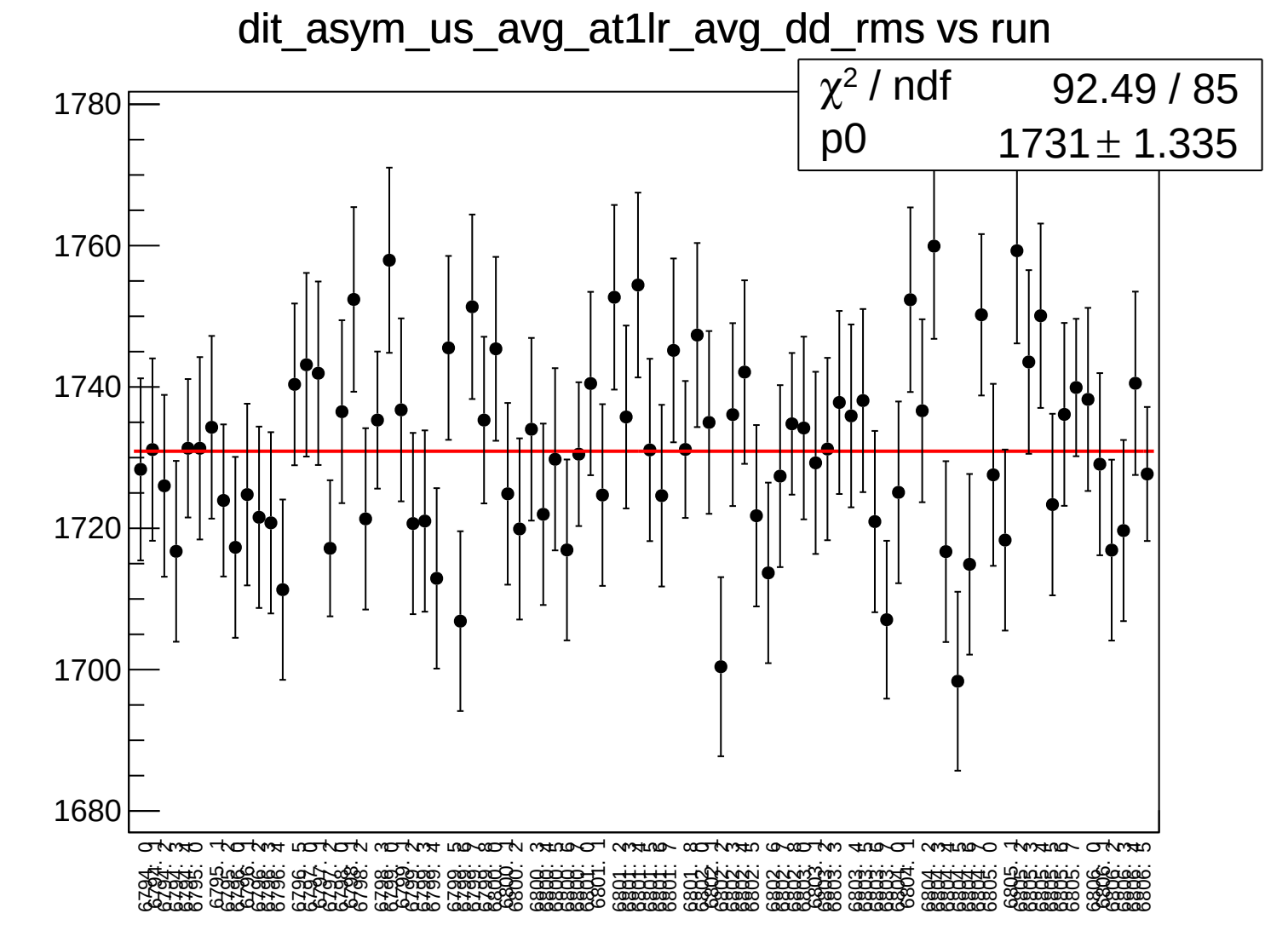

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.88 / 85
p0 −654.7 ± 695
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −102.2
Std Dev 0
2
1
0
−1
−2
−3

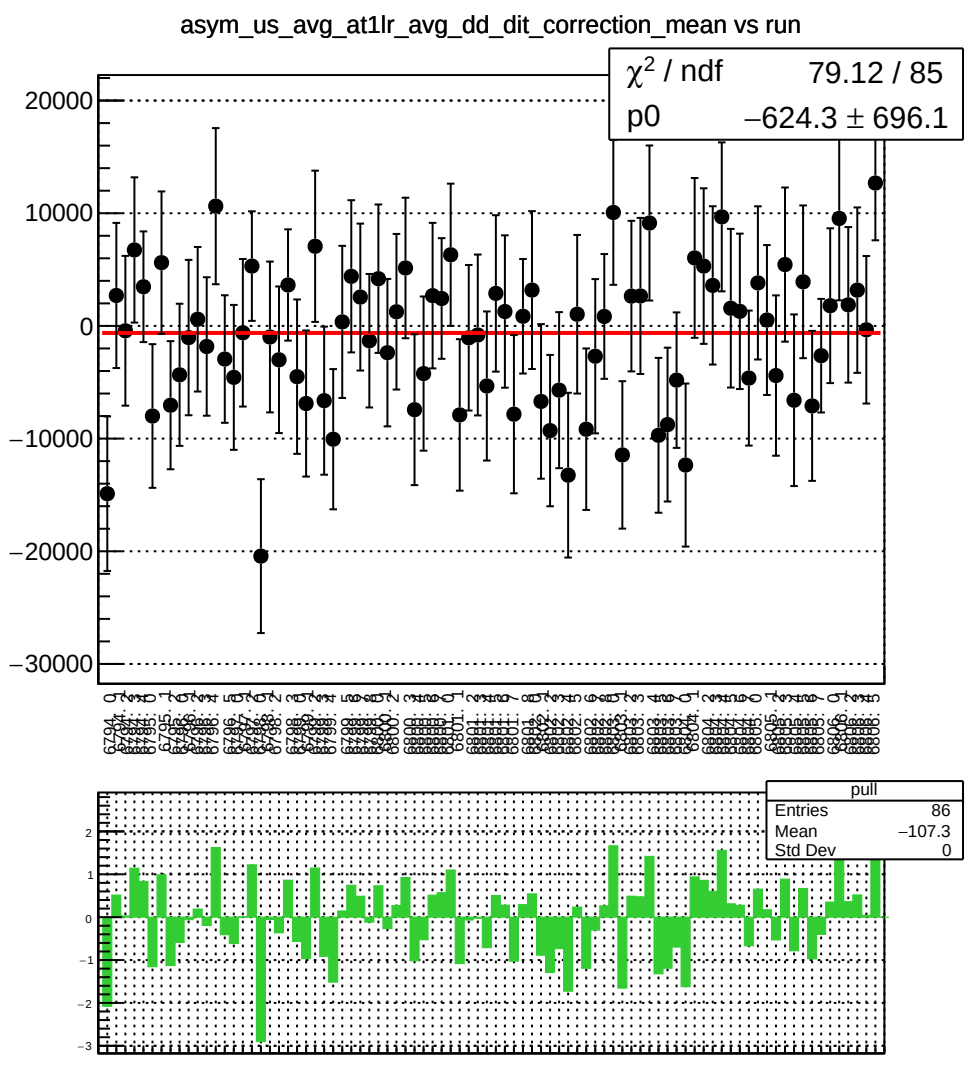

pull1D
Entries 86
Mean −0.02333
Std Dev 0.9695
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

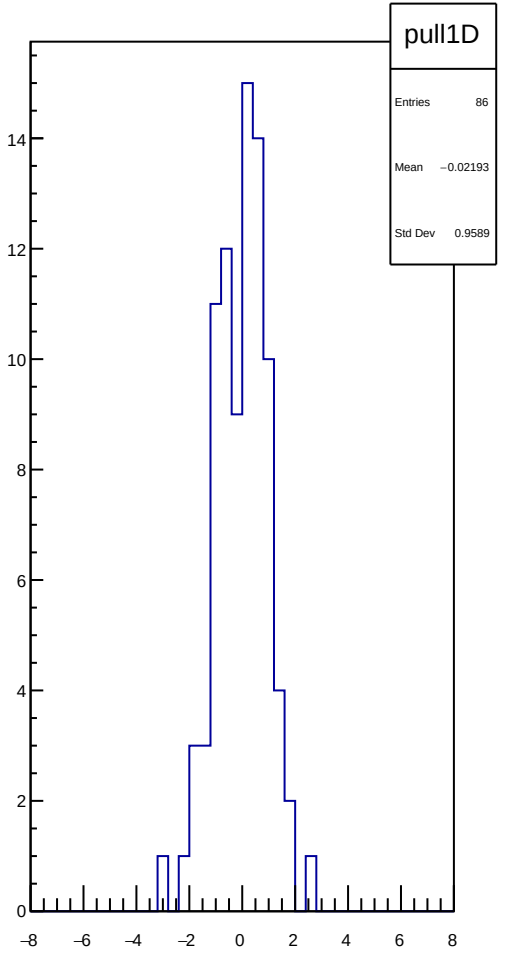

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5492 / 85
p0 636.4 ± 0.4914
750
700
650
600
550

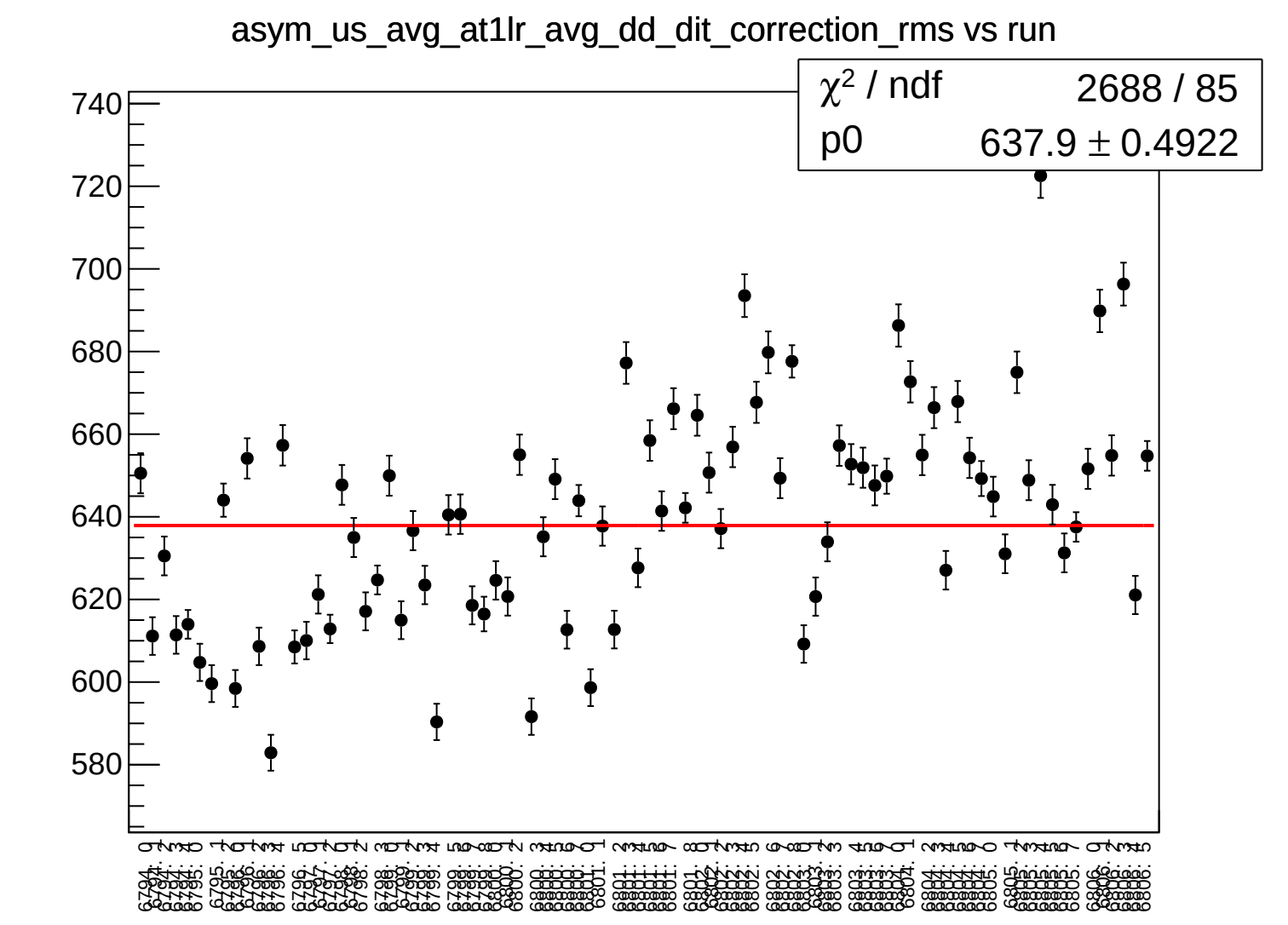

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 102.8 / 85
p0 −1772 ± 1887
pull
Entries 86
Mean −1328
Std Dev 0

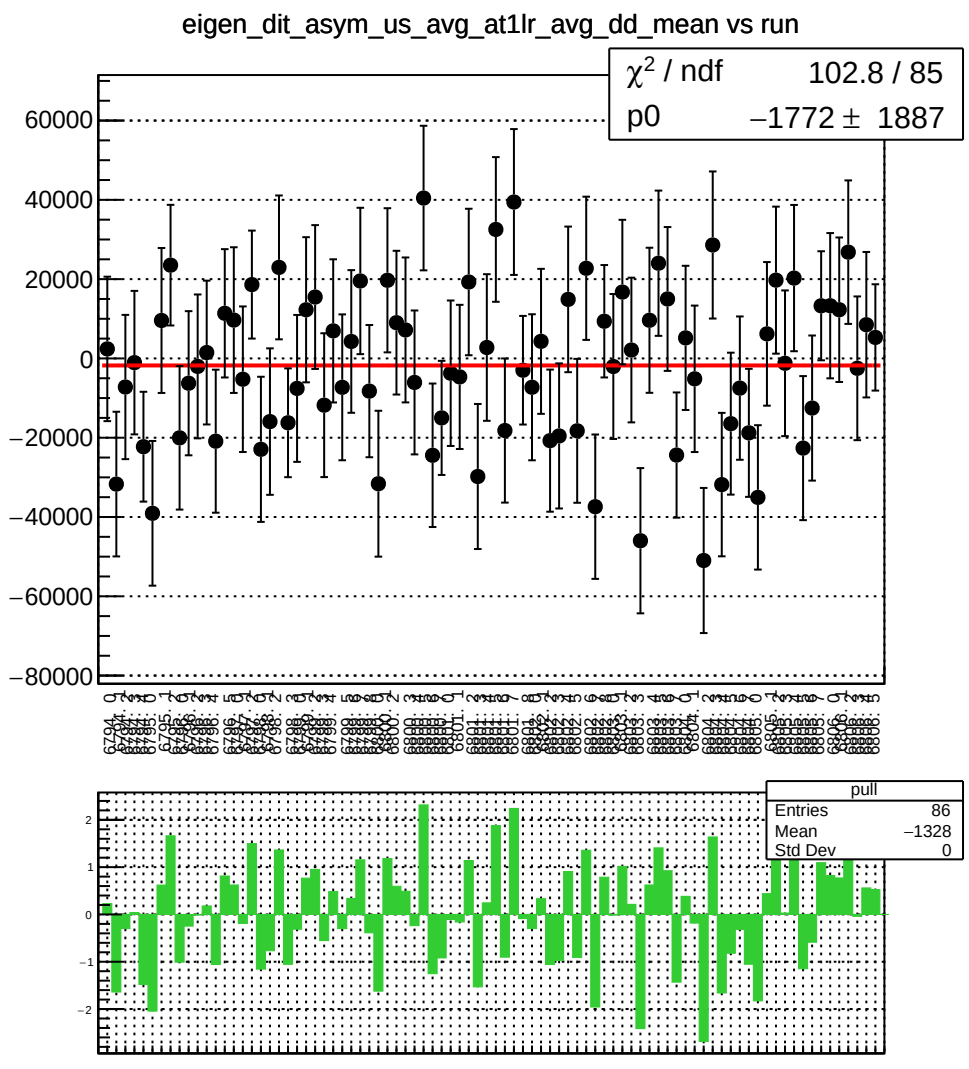

pull1D
Entries 86
Mean −0.001428
Std Dev 1.093

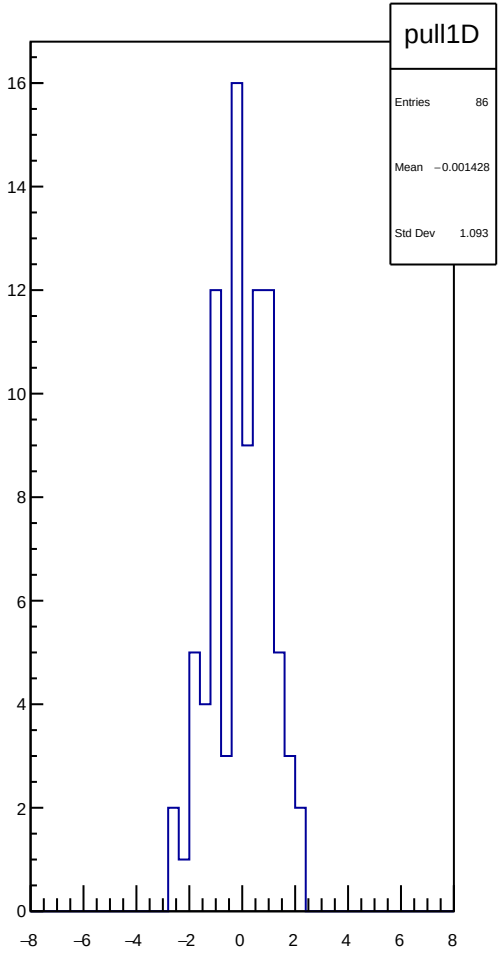

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 92.49 / 85
p0 1731 ± 1.335
1780
1760
1740
1720
1700
1680

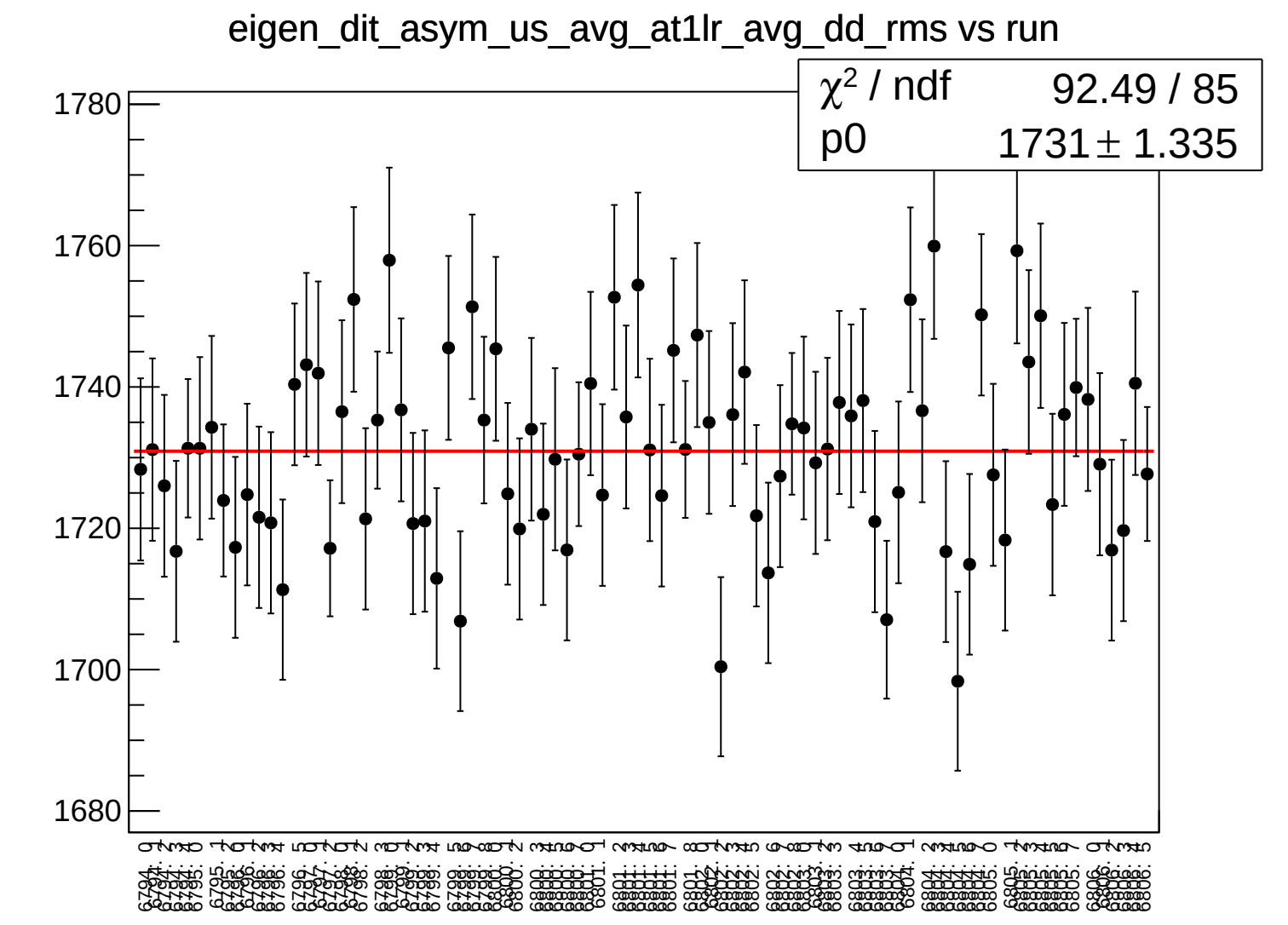

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 79.12 / 85
p0 −624.3 ± 696.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −107.3
Std Dev 0
2
1
0
−1
−2
−3

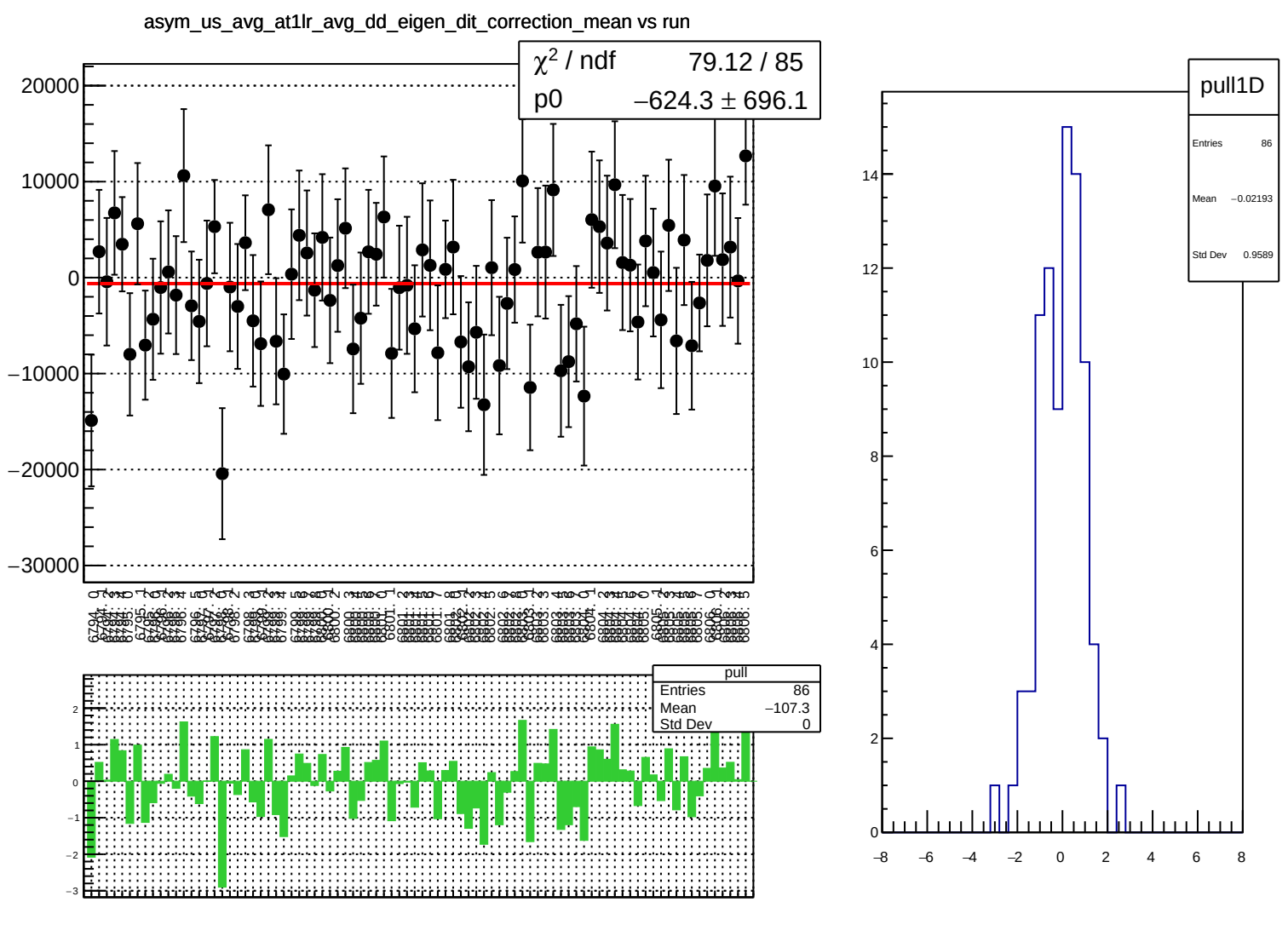

pull1D
Entries 86
Mean −0.02193
Std Dev 0.9589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

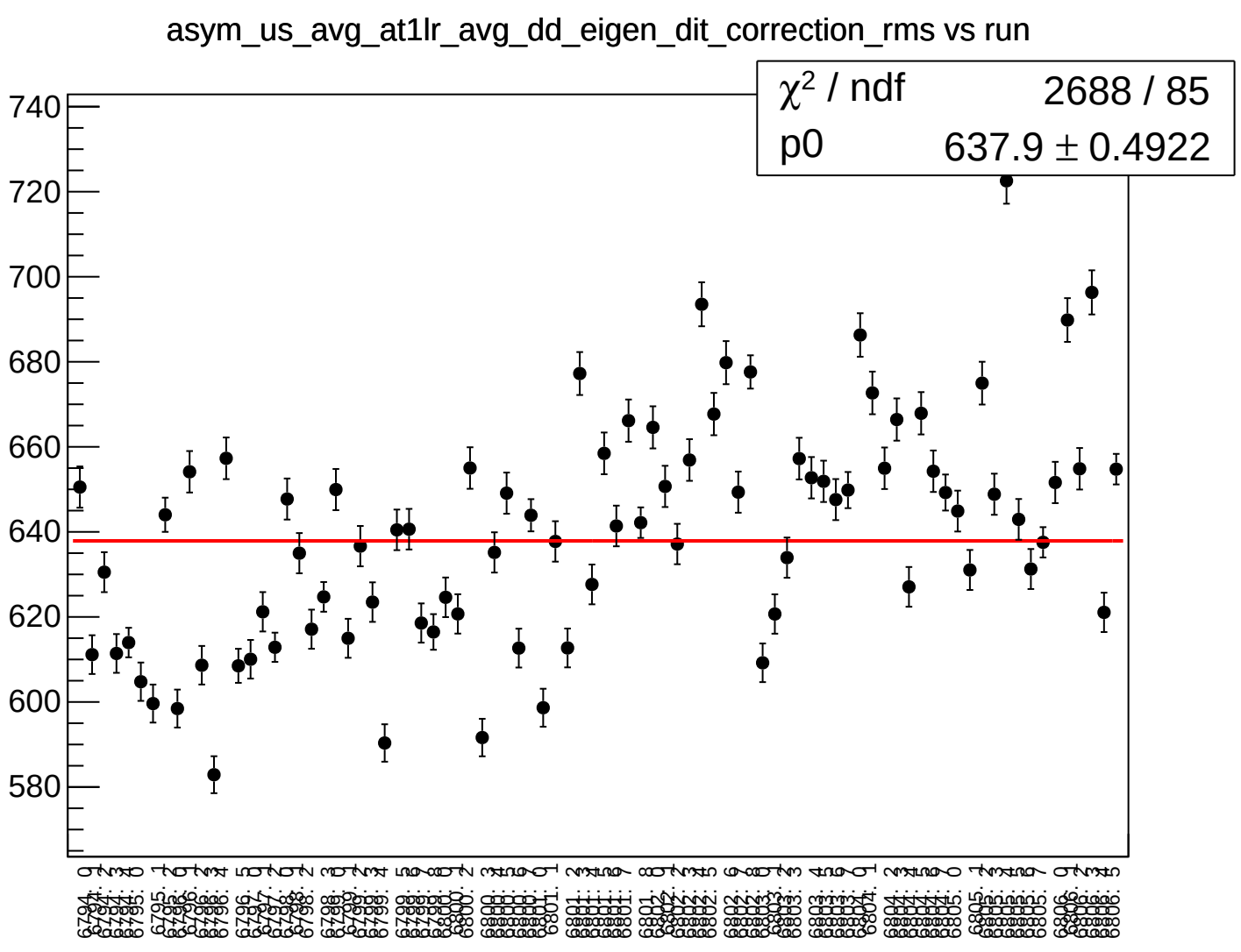

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 2688 / 85
p0 637.9 ± 0.4922
740
720
700
680
660
640
620
600
580

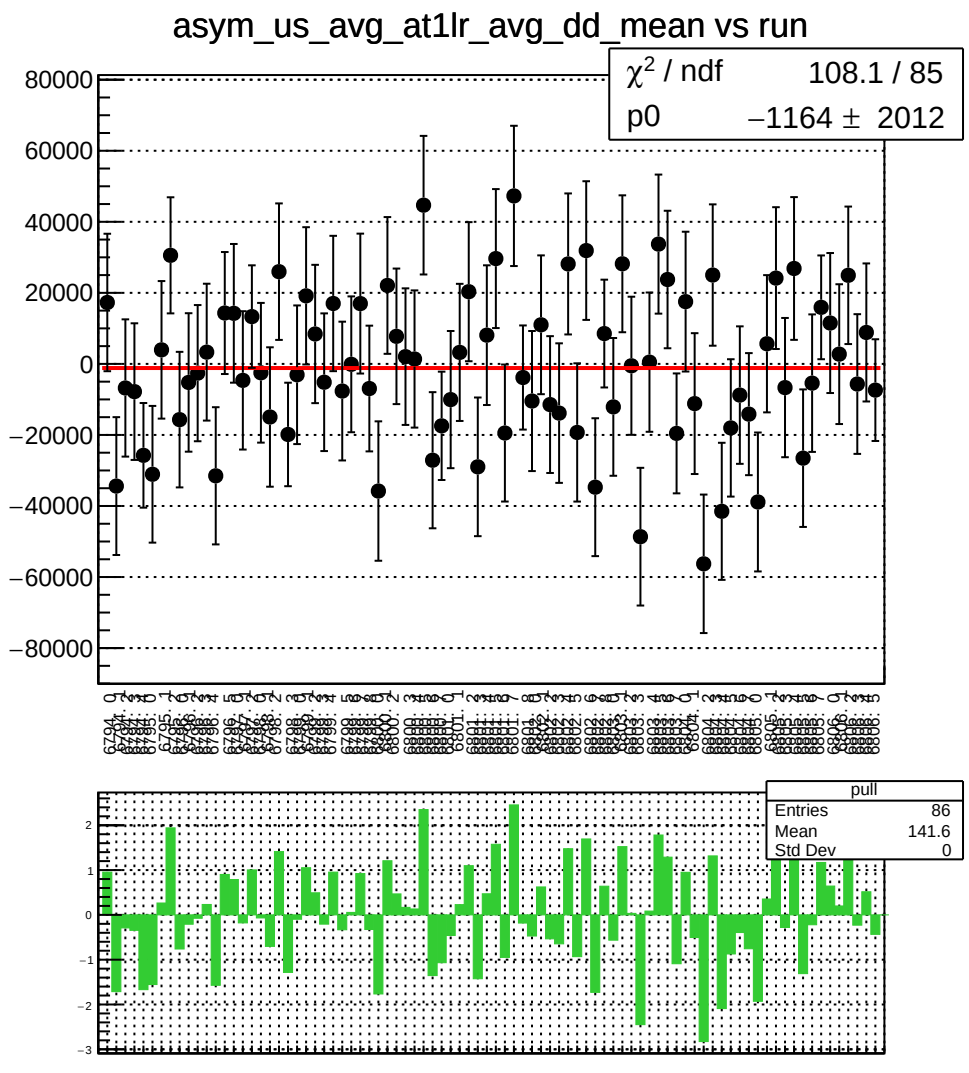

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 102.8 / 85
p0 −1772 ± 1887
pull
Entries 86
Mean −1328
Std Dev 0

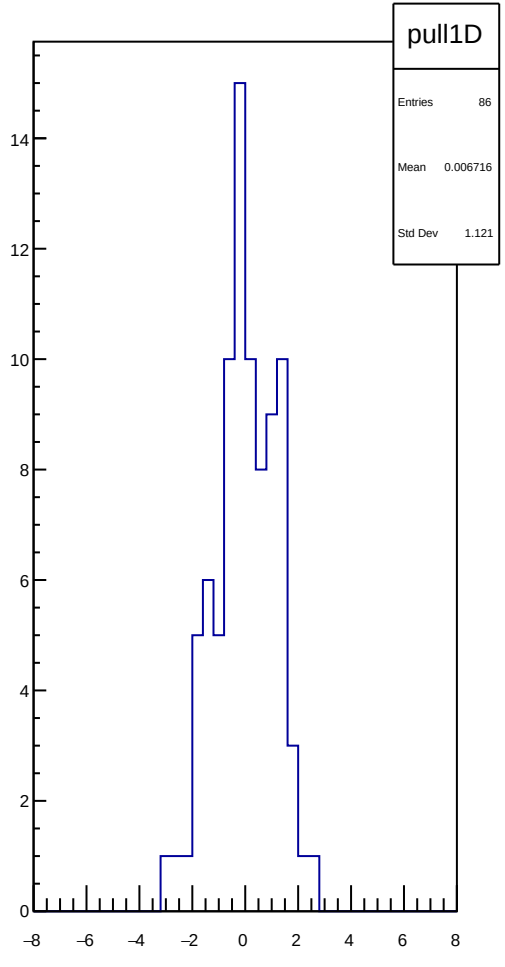

pull1D
Entries 86
Mean −0.001428
Std Dev 1.093

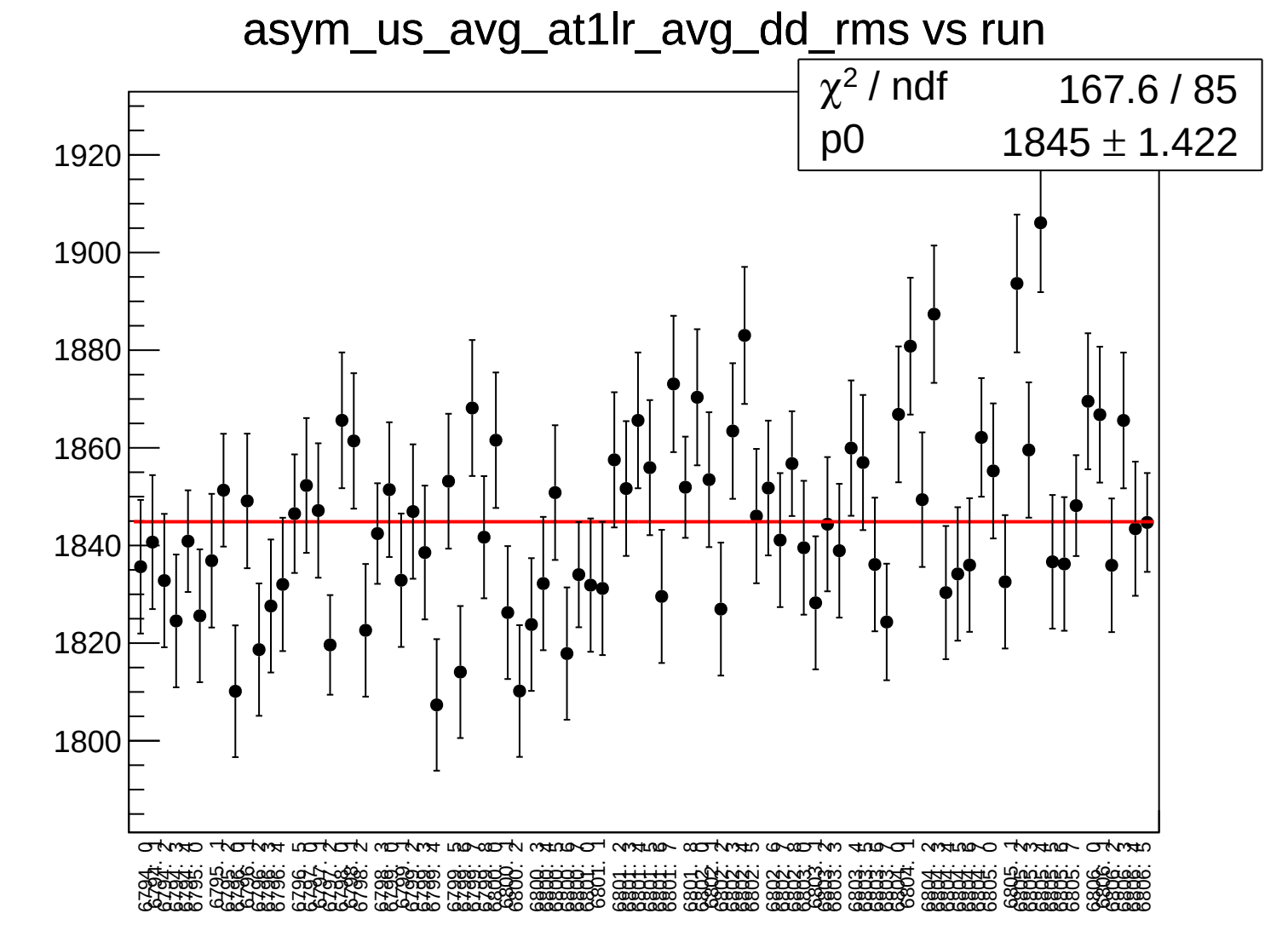

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 92.49 / 85
p0 1731 ± 1.335
1780
1760
1740
1720
1700
1680

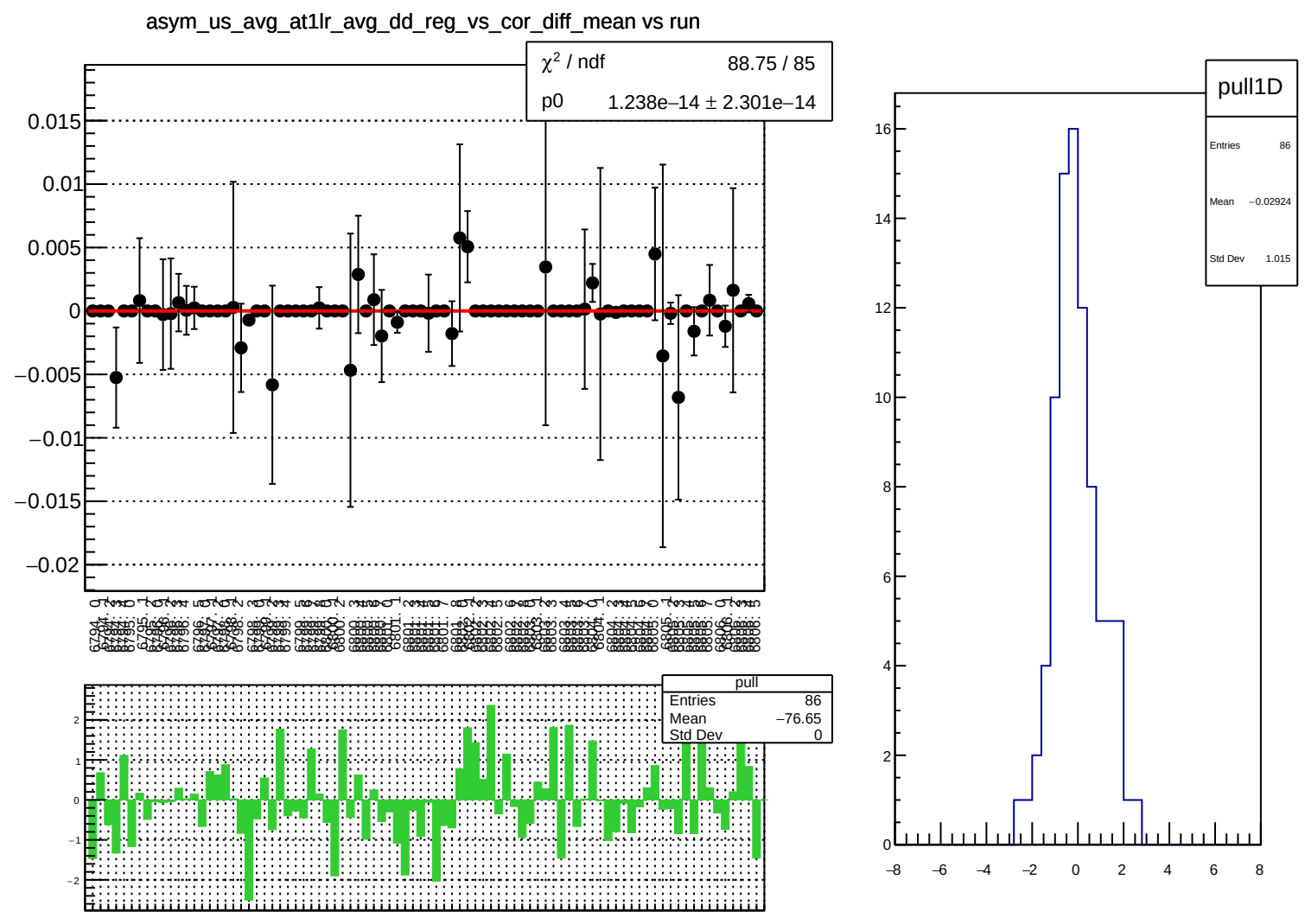

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.12 / 85
p0 −624.3 ± 696.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −107.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.02193
Std Dev 0.9589
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

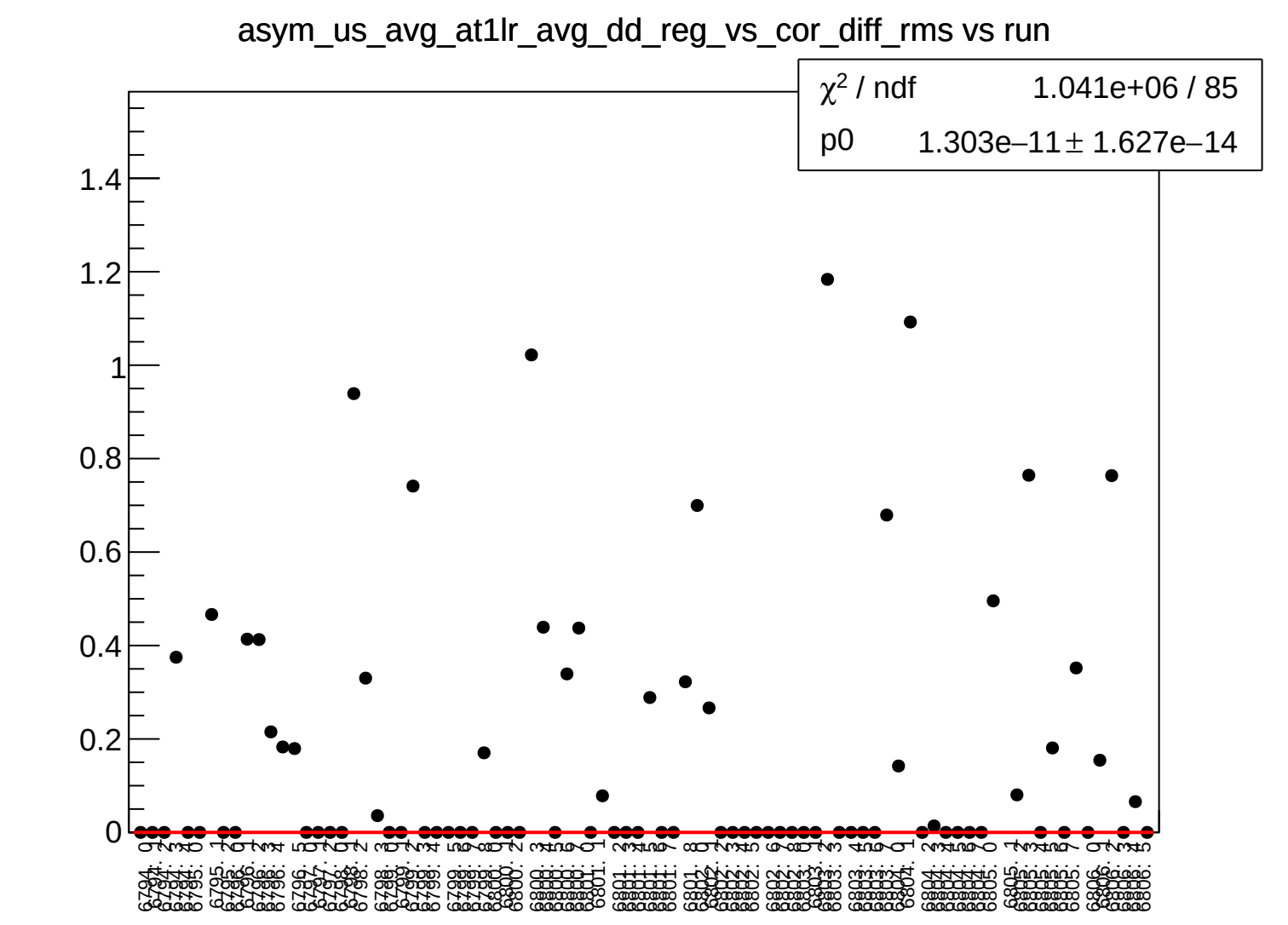

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 2688 / 85
p0 637.9 ± 0.4922
740
720
700
680
660
640
620
600
580

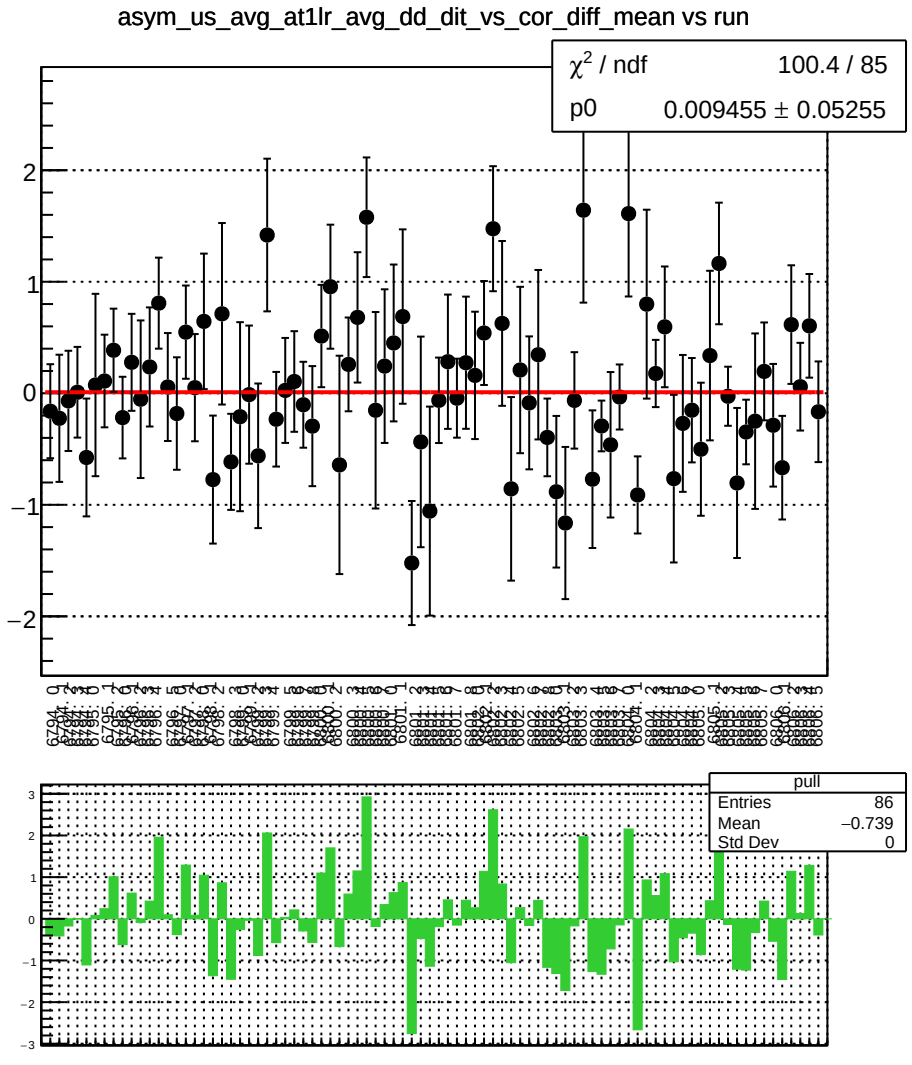

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 108.1 / 85
p0 −1164 ± 2012
pull
Entries 86
Mean 141.6
Std Dev 0

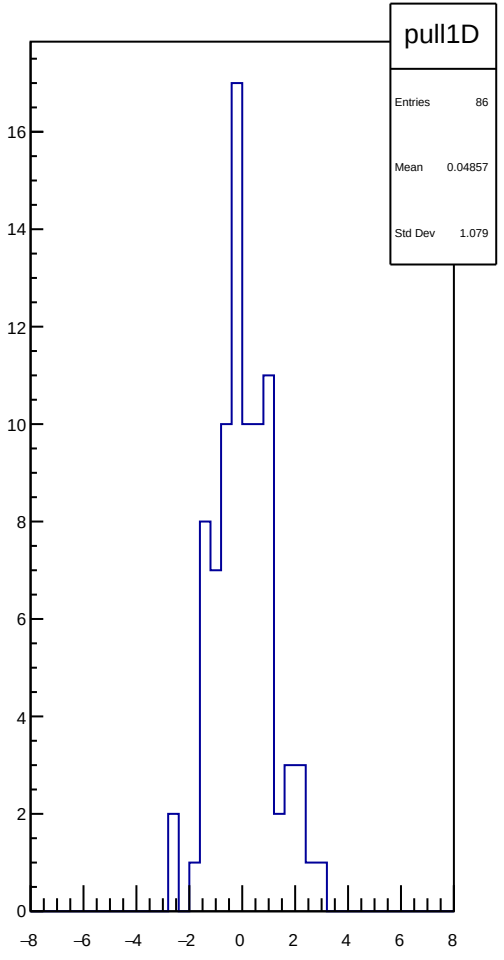

pull1D
Entries 86
Mean 0.006716
Std Dev 1.121

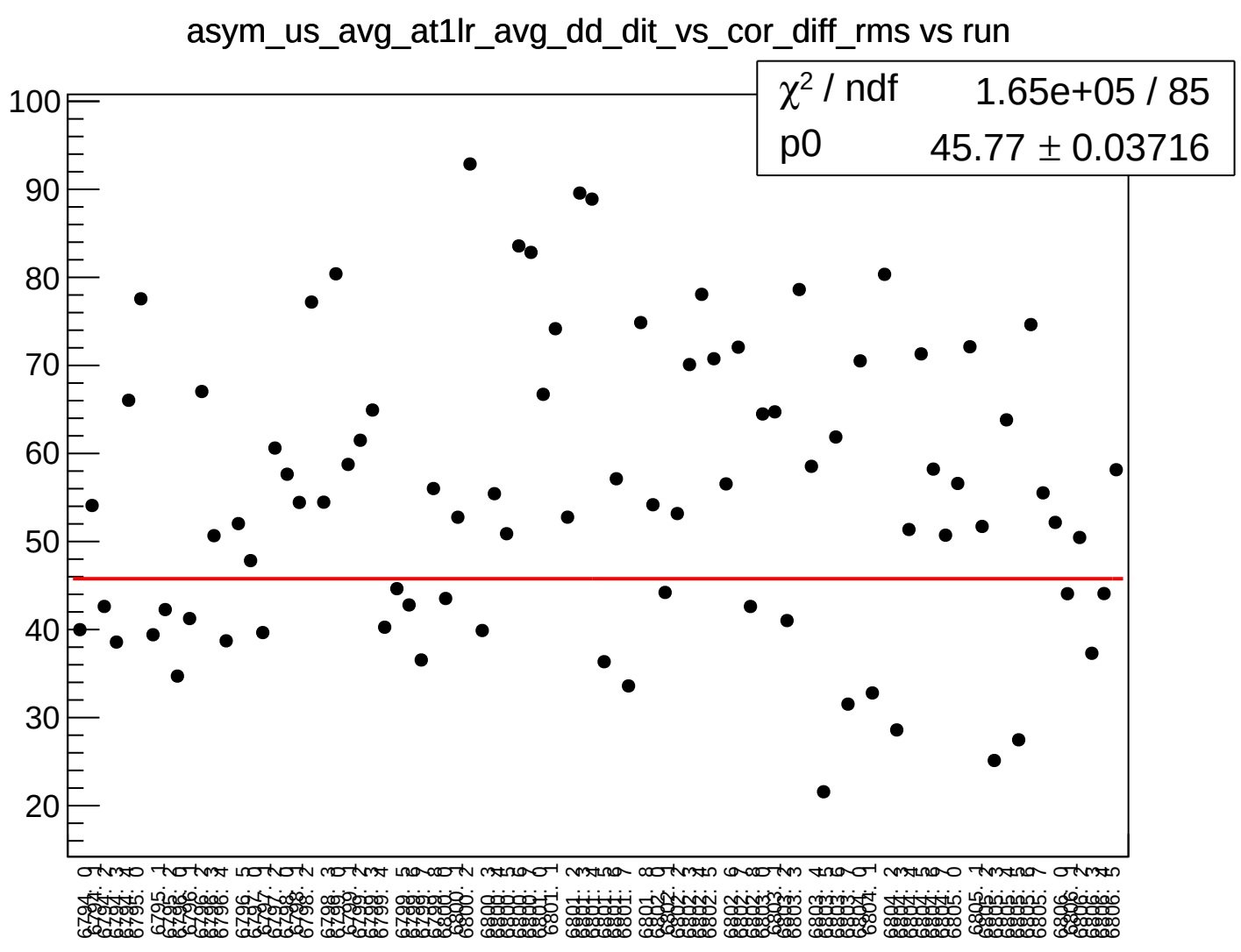

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 167.6 / 85
p0 1845 ± 1.422
1920
1900
1880
1860
1840
1820
1800

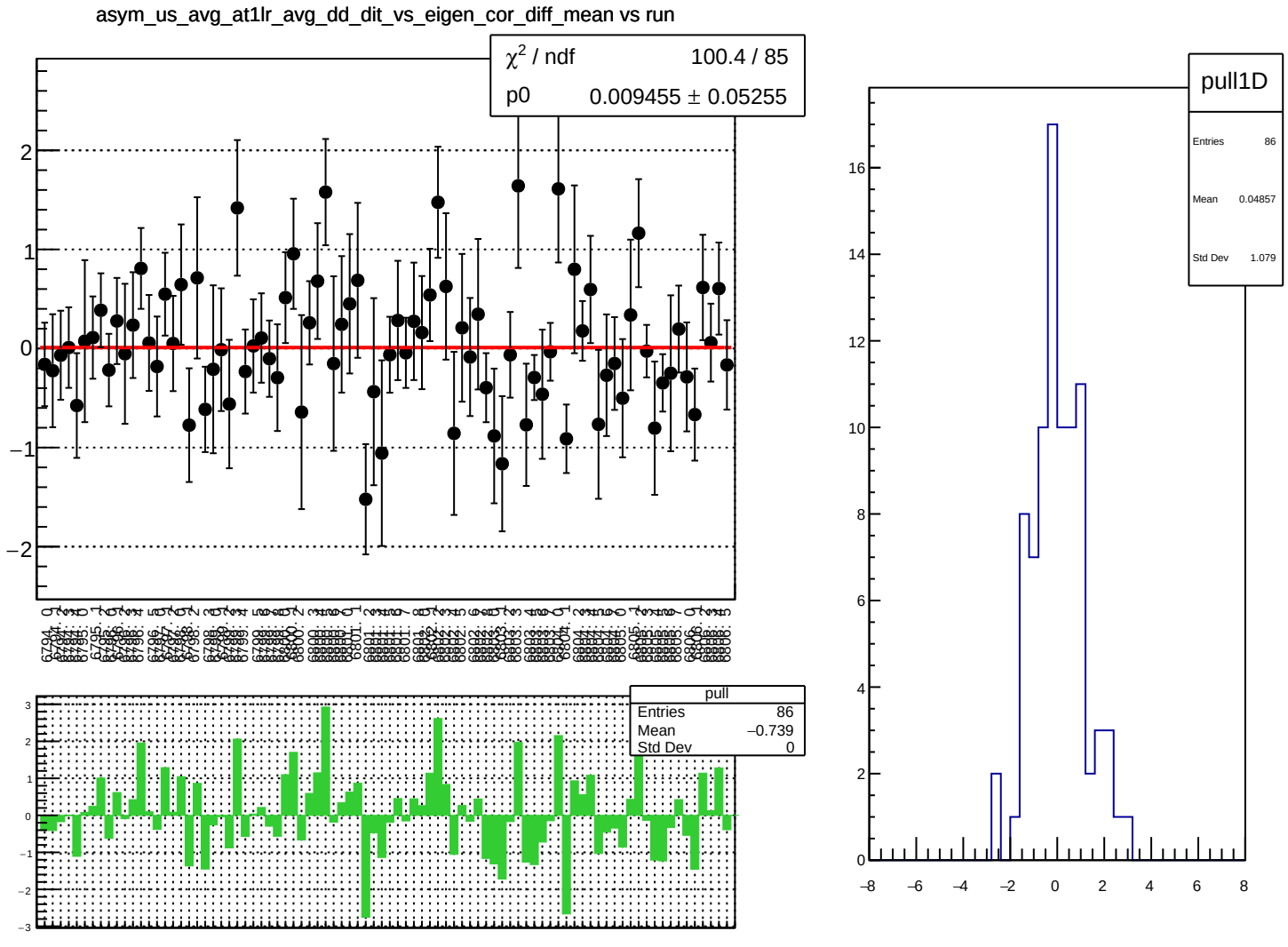

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.75 / 85
p0 1.238e−14 ± 2.301e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean −76.65
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.02924
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

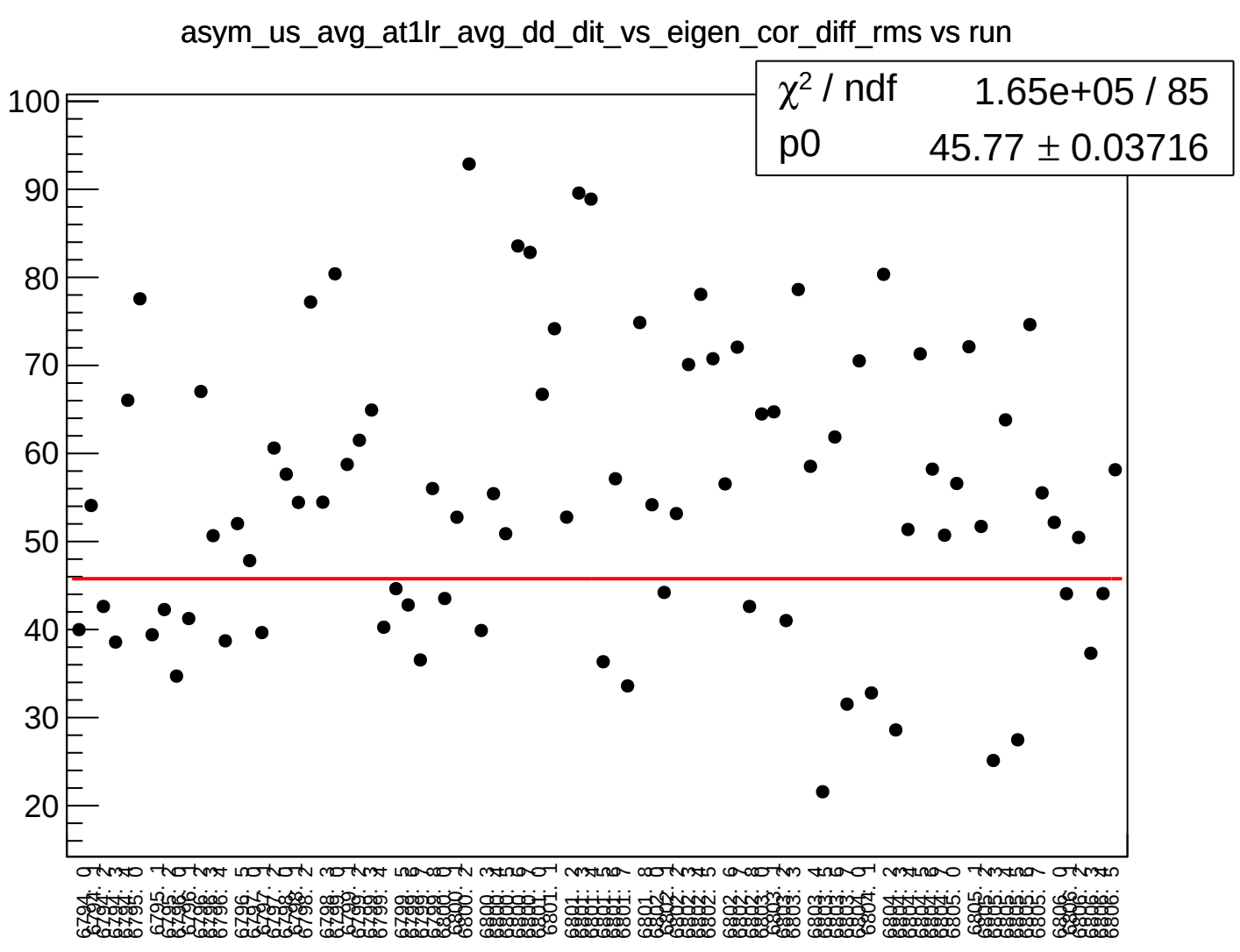

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 85
p0 1.303e−11 ± 1.627e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

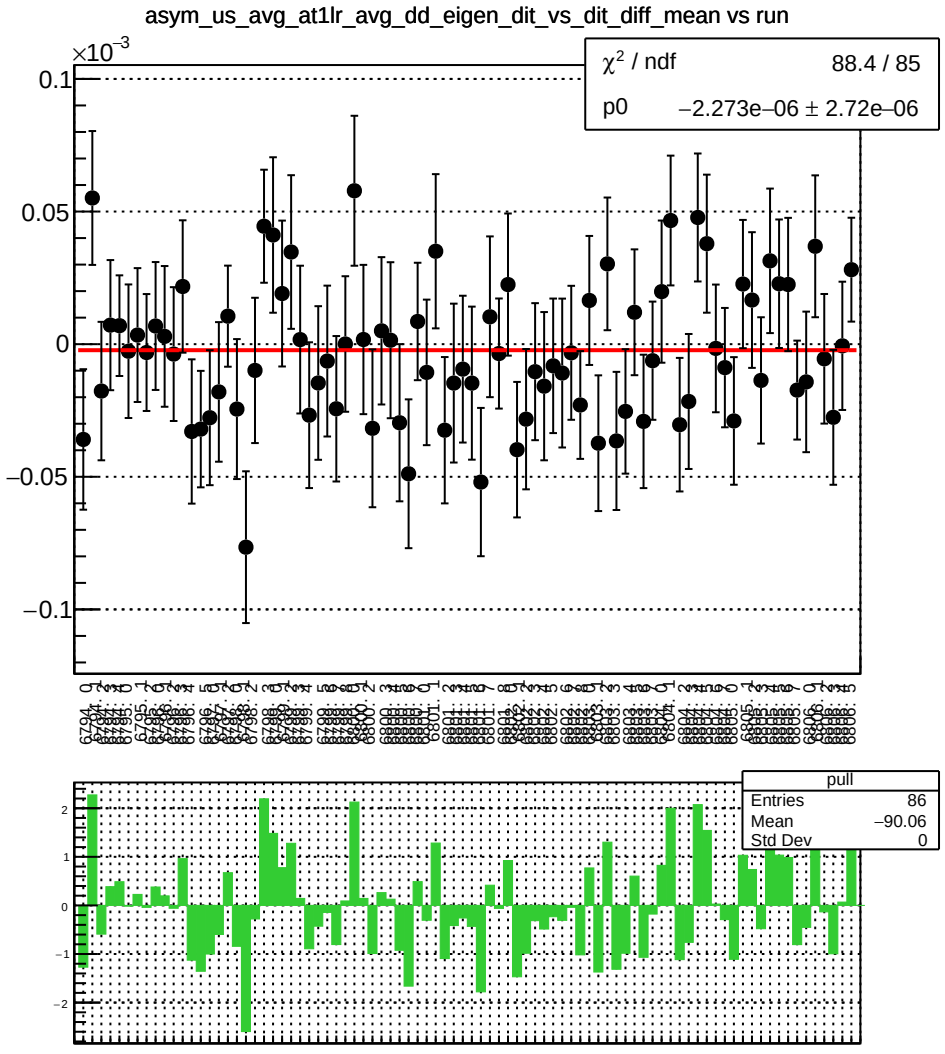

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 85
p0 0.009455 ± 0.05255
pull
Entries 86
Mean −0.739
Std Dev 0

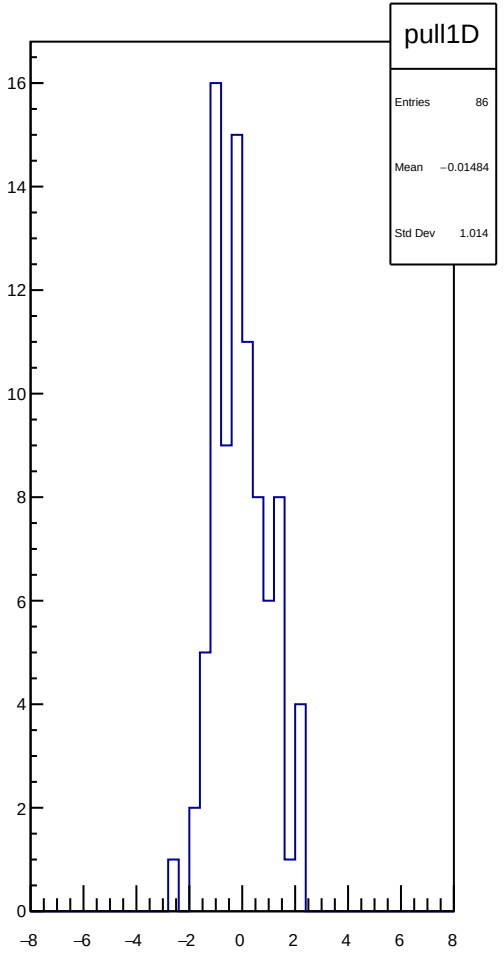

pull1D
Entries 86
Mean 0.04857
Std Dev 1.079

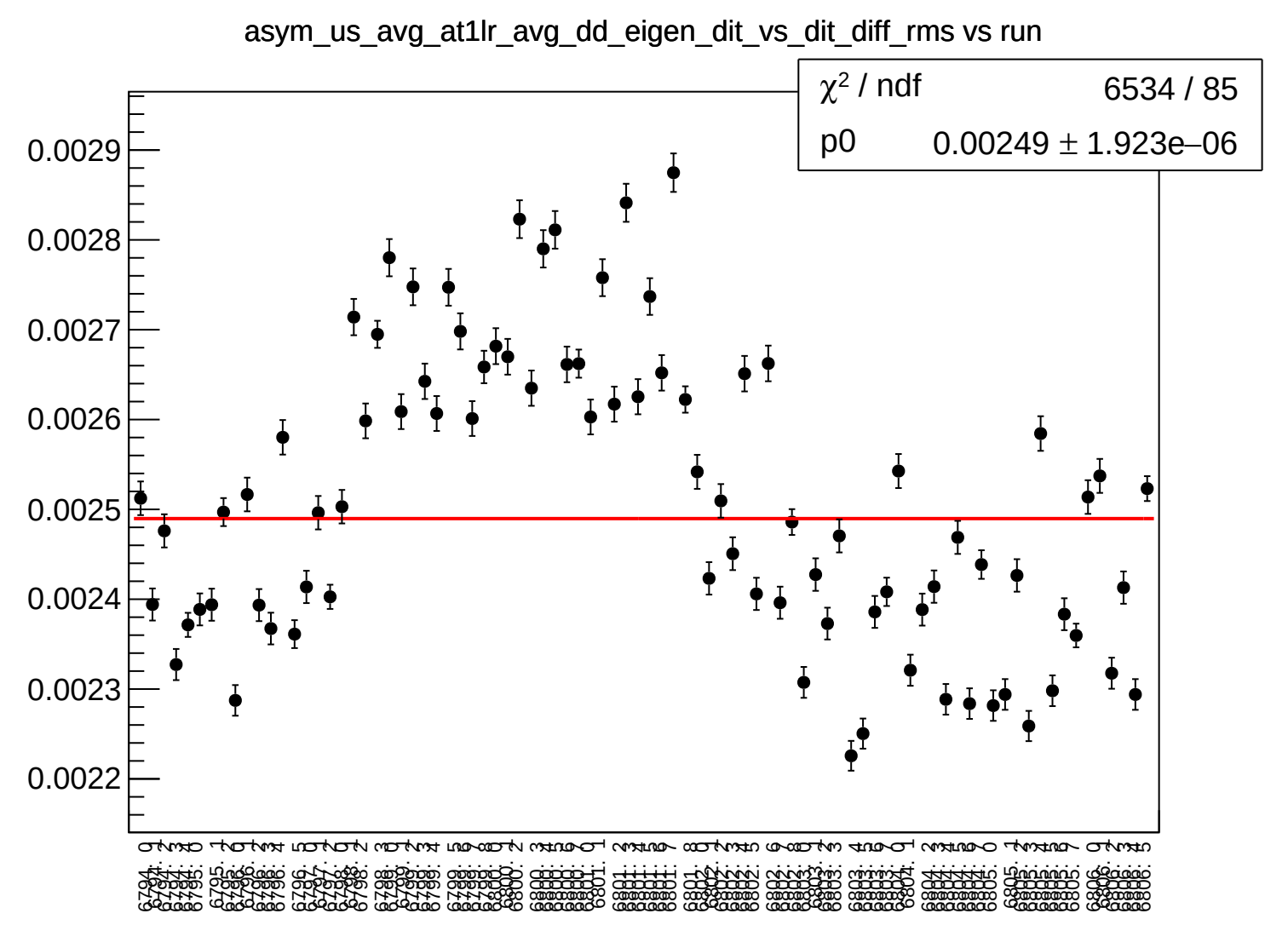

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.65e+05 / 85
p0 45.77 ± 0.03716
100
90
80
70
60
50
40
30
20

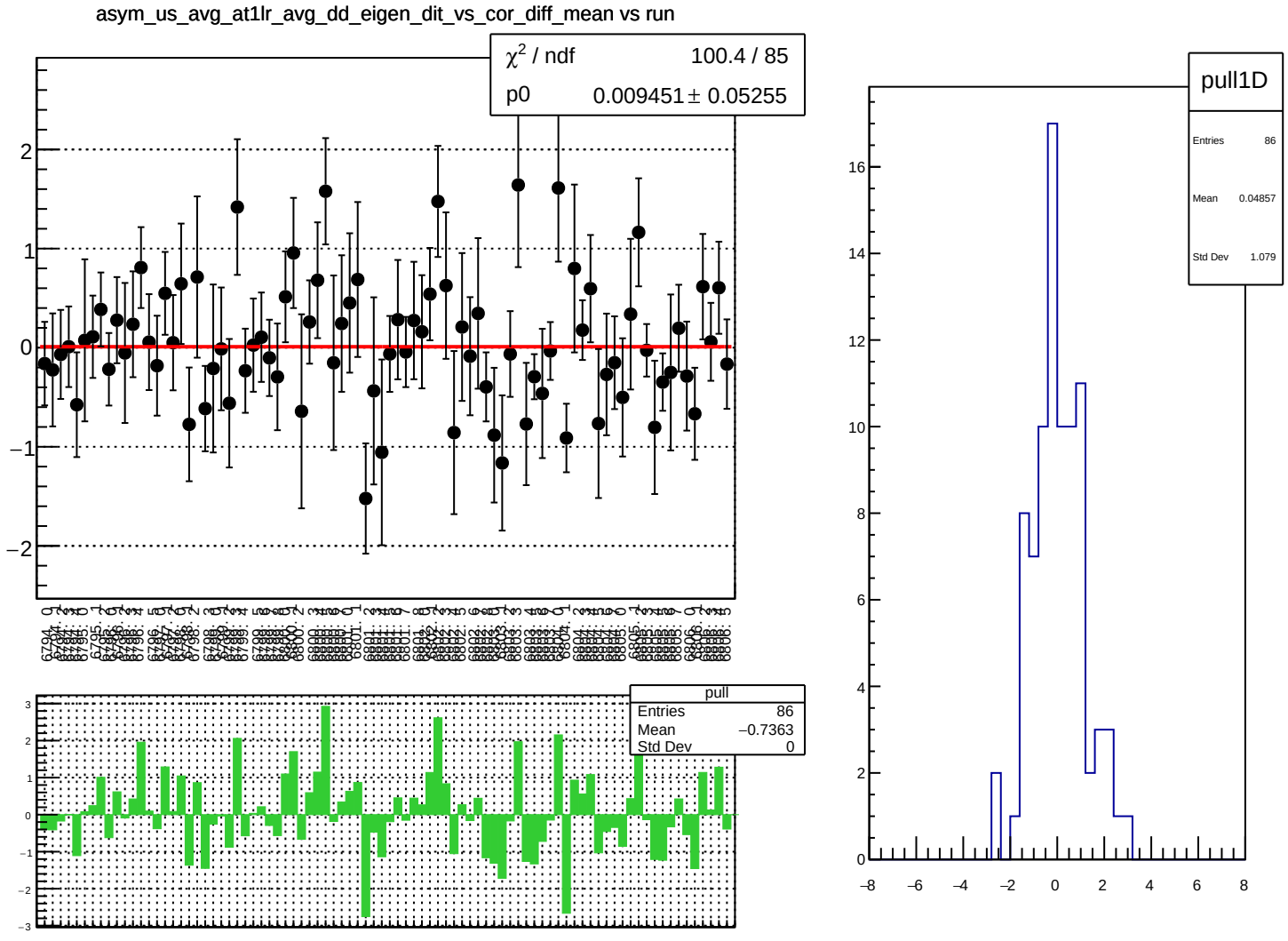

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 85
p0 0.009455 ± 0.05255
pull
Entries 86
Mean −0.739
Std Dev 0
pull1D
Entries 86
Mean 0.04857
Std Dev 1.079

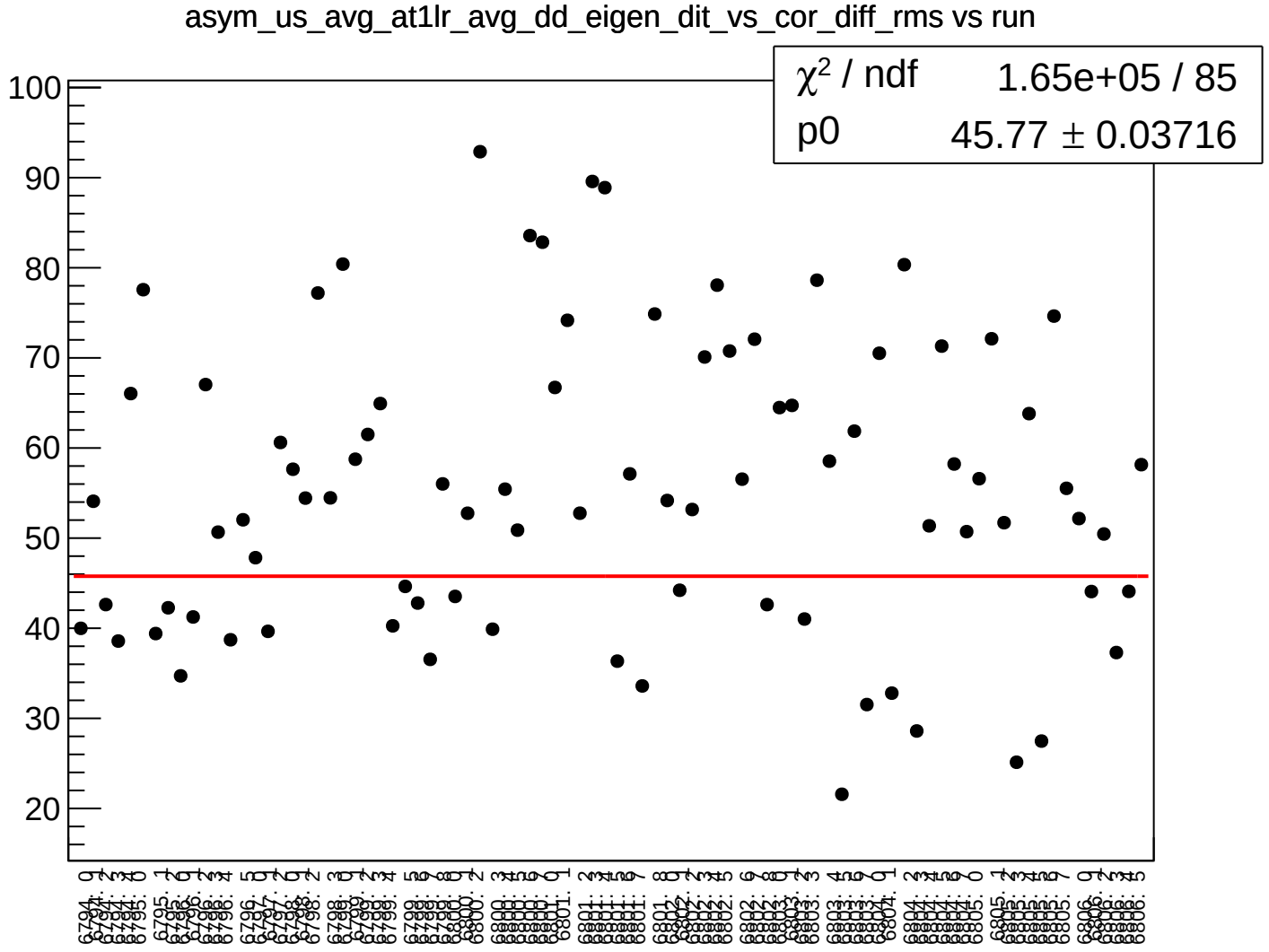

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.65e+05 / 85
p0 45.77 ± 0.03716
100
90
80
70
60
50
40
30
20

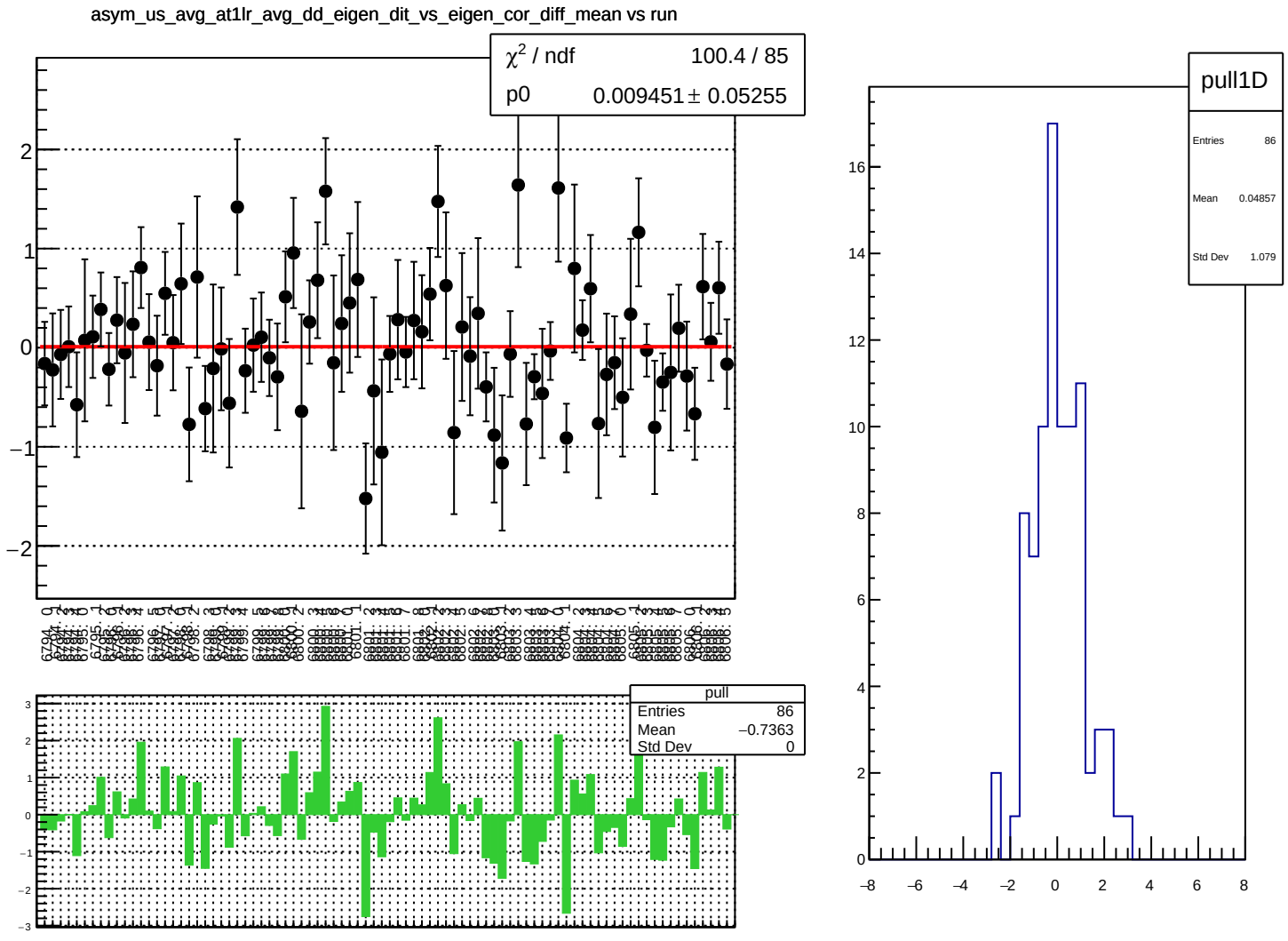

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.4 / 85
p0 −2.273e−06 ± 2.72e−06
pull
Entries 86
Mean −90.06
Std Dev 0

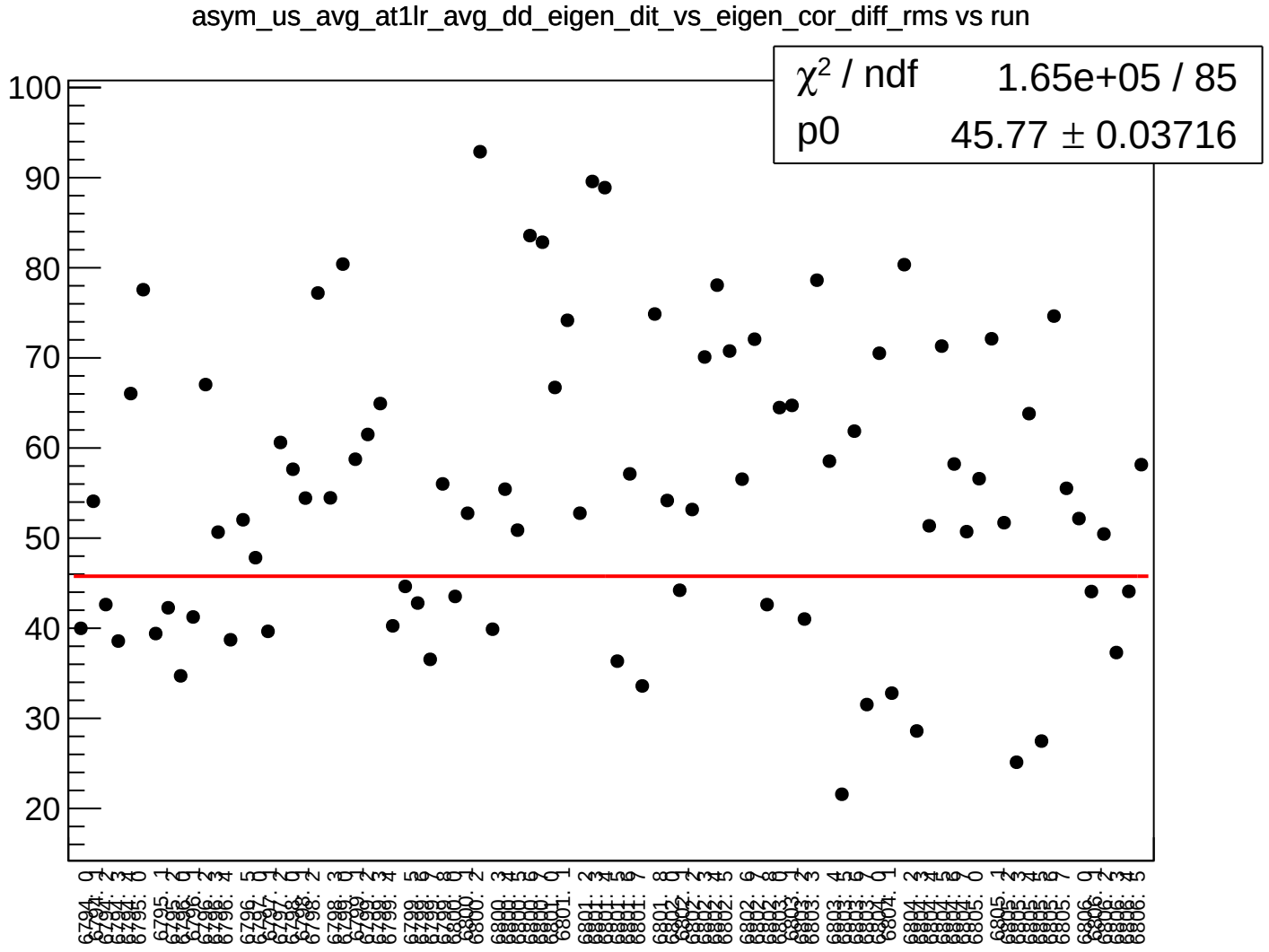

pull1D
Entries 86
Mean −0.01484
Std Dev 1.014

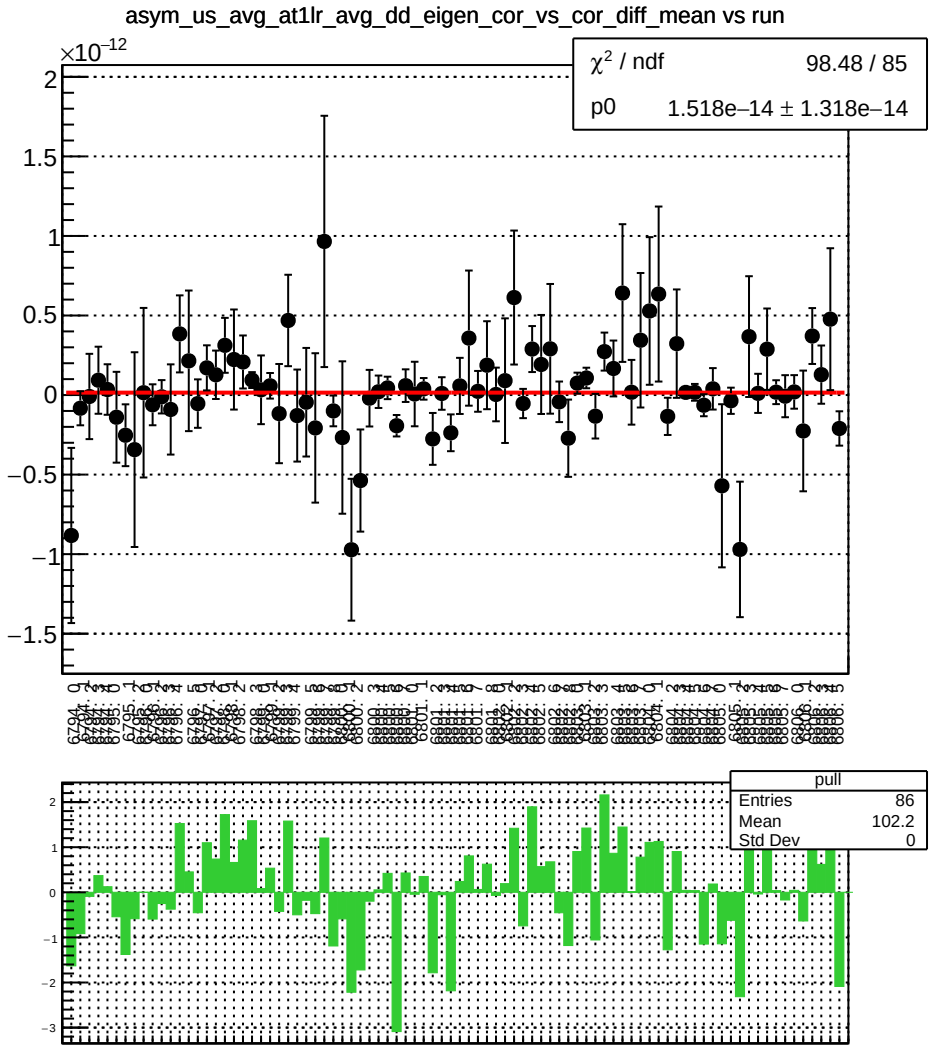

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6534 / 85
p0 0.00249 ± 1.923e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

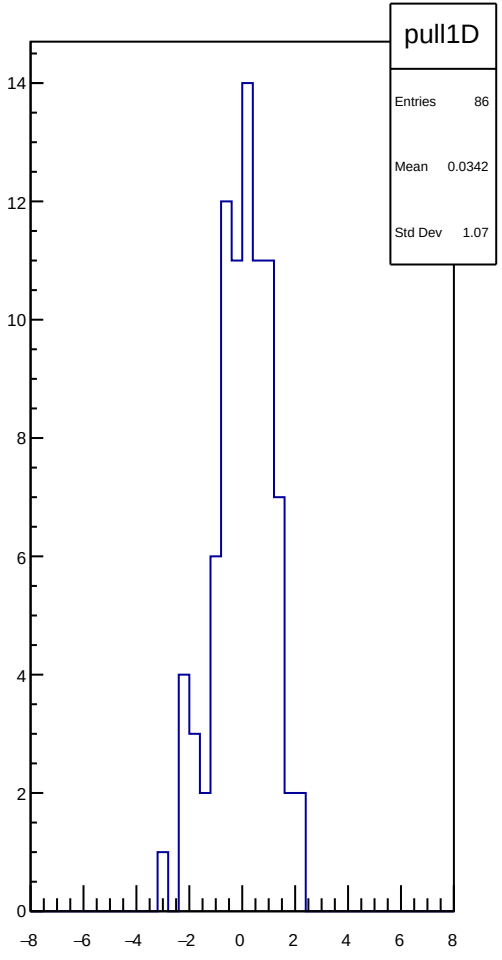

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.4 / 85
p0 0.009451 ± 0.05255
pull
Entries 86
Mean −0.7363
Std Dev 0
pull1D
Entries 86
Mean 0.04857
Std Dev 1.079

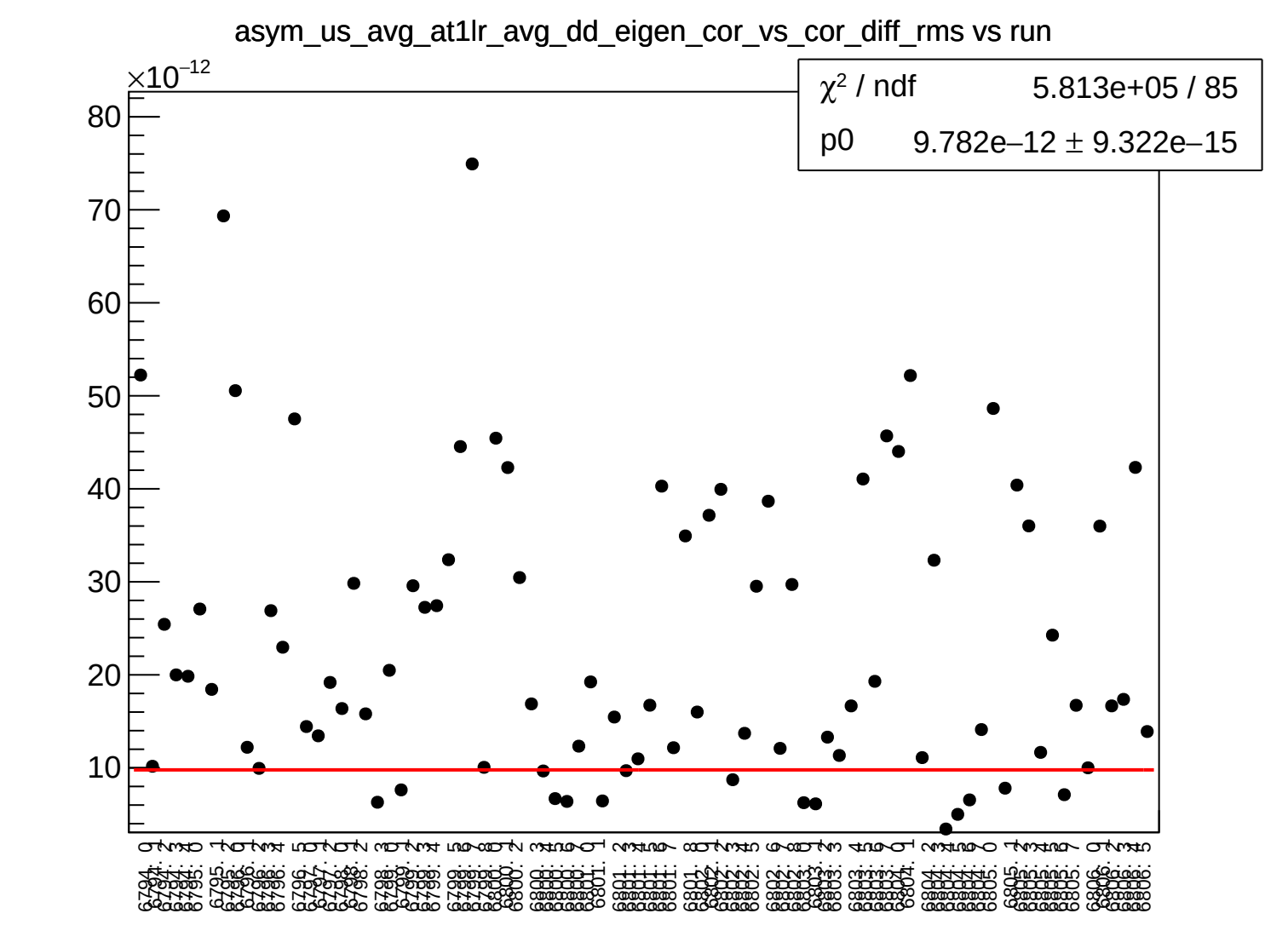

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.65e+05 / 85
p0 45.77 ± 0.03716
100
90
80
70
60
50
40
30
20

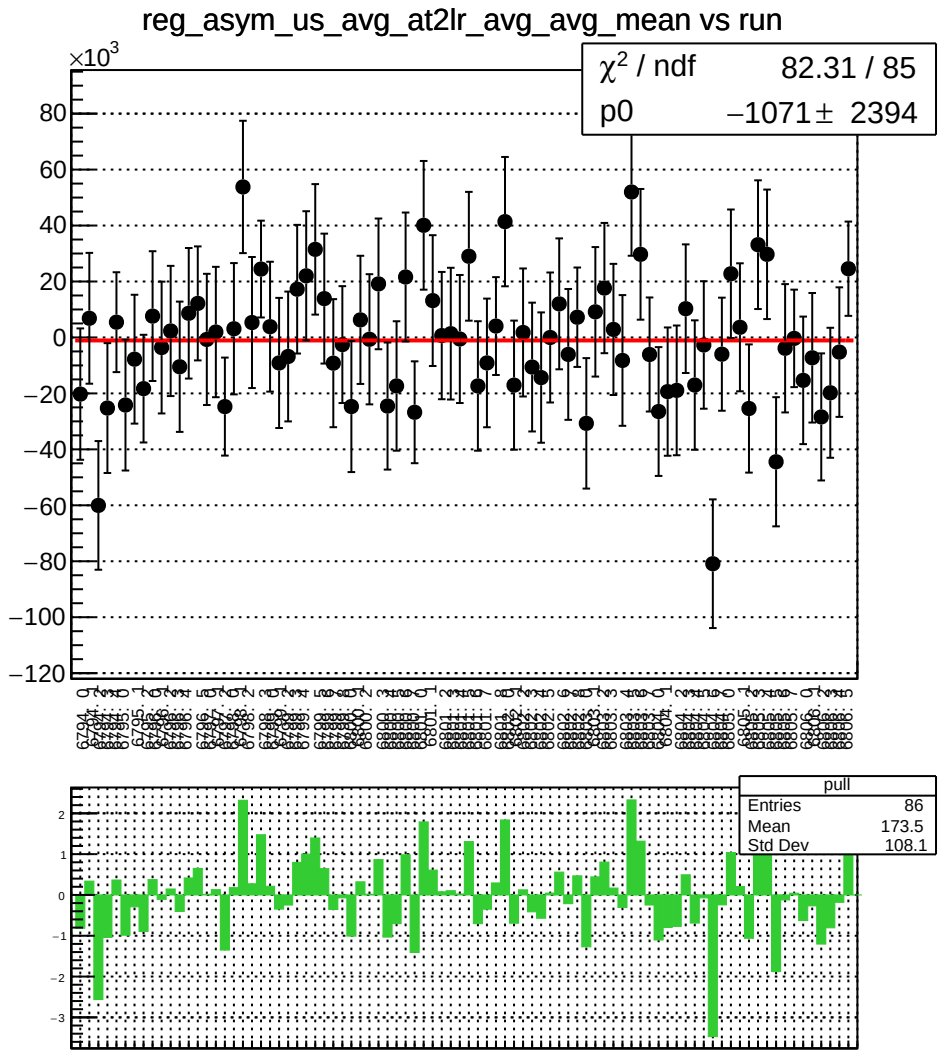

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.4 / 85
p0 0.009451 ± 0.05255
pull
Entries 86
Mean −0.7363
Std Dev 0
pull1D
Entries 86
Mean 0.04857
Std Dev 1.079

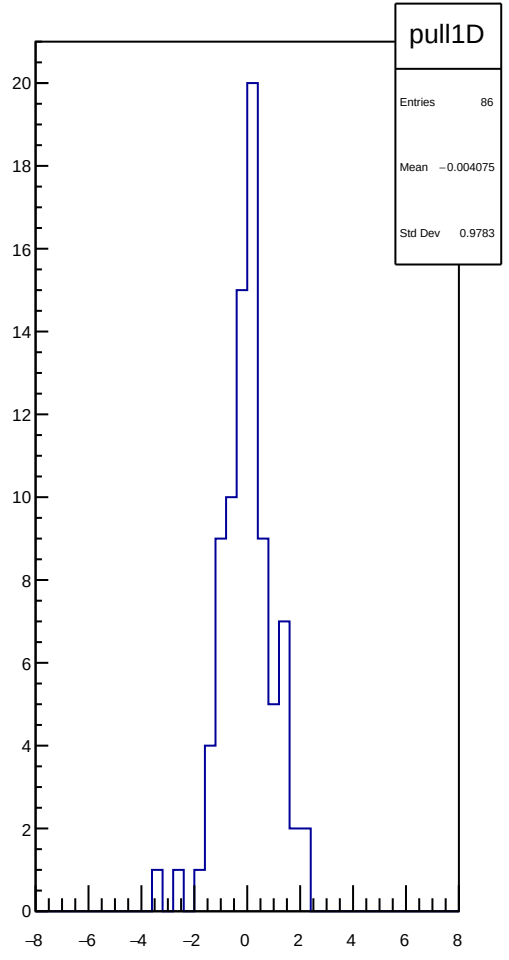

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.65e+05 / 85
p0 45.77 ± 0.03716
100
90
80
70
60
50
40
30
20

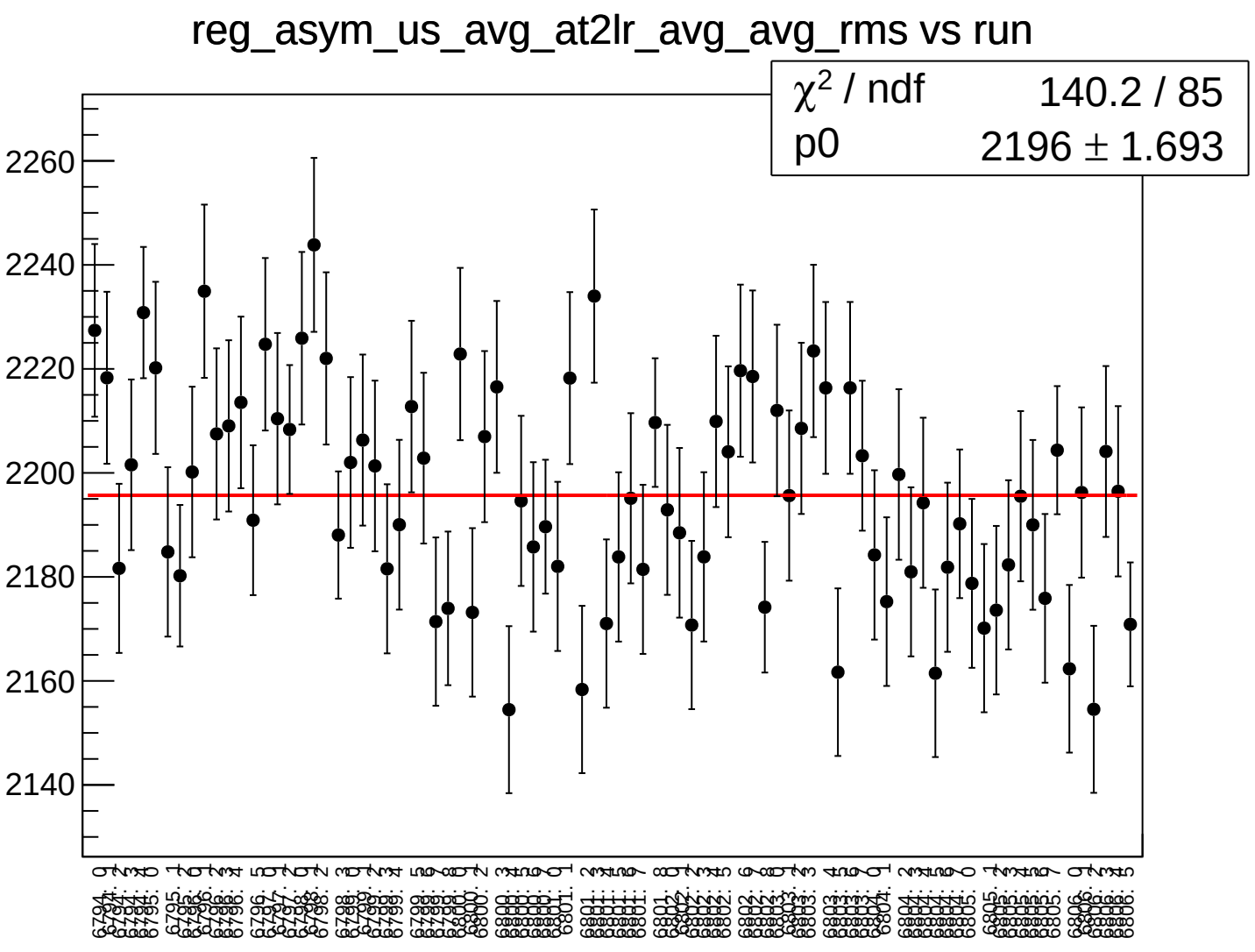

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.48 / 85
p0 1.518e−14 ± 1.318e−14
pull
Entries 86
Mean 102.2
Std Dev 0

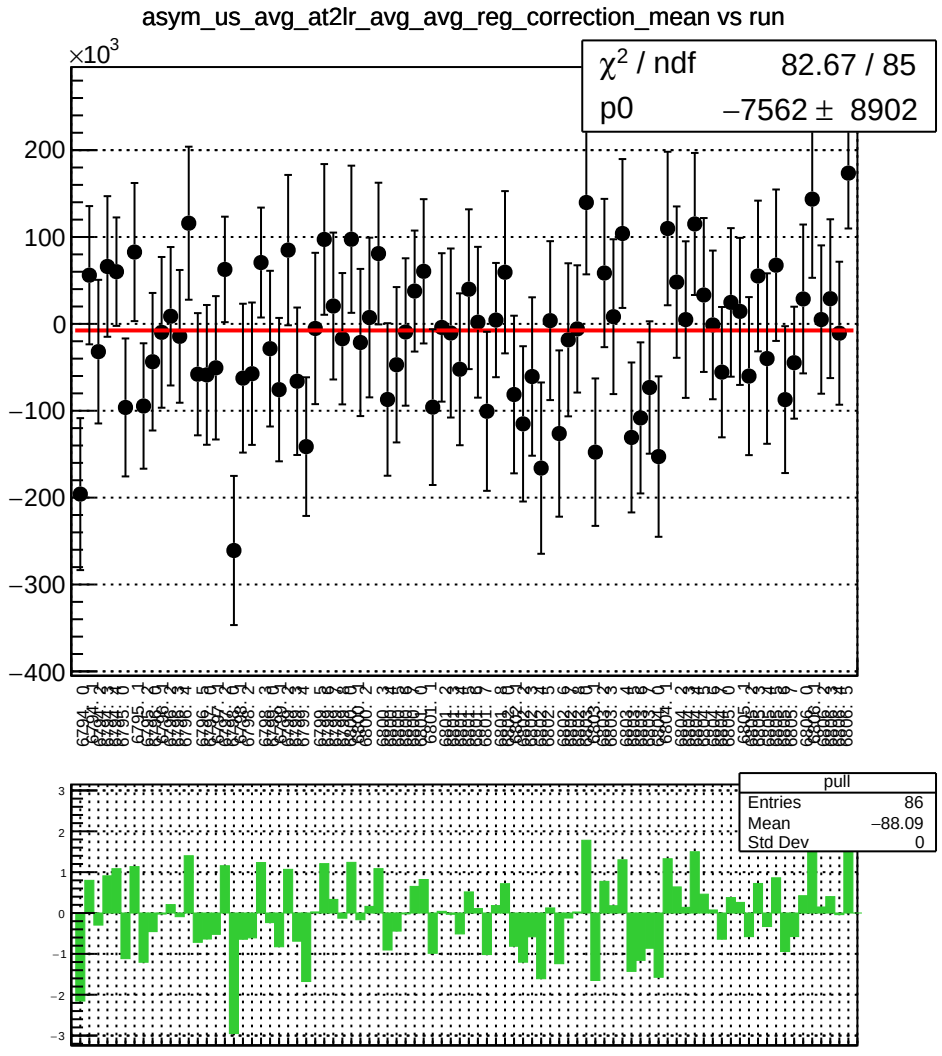

pull1D
Entries 86
Mean 0.0342
Std Dev 1.07

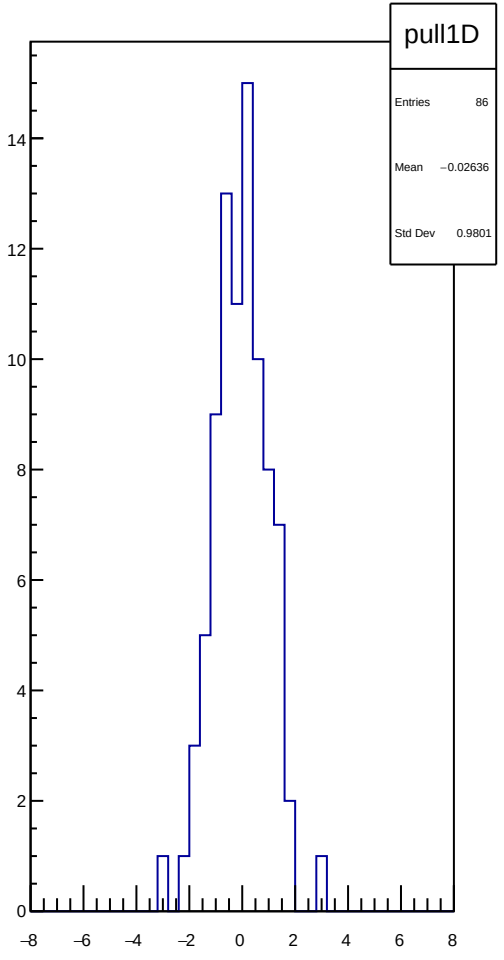

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.813e+05 / 85
p0 9.782e−12 ± 9.322e−15
80
70
60
50
40
30
20
10

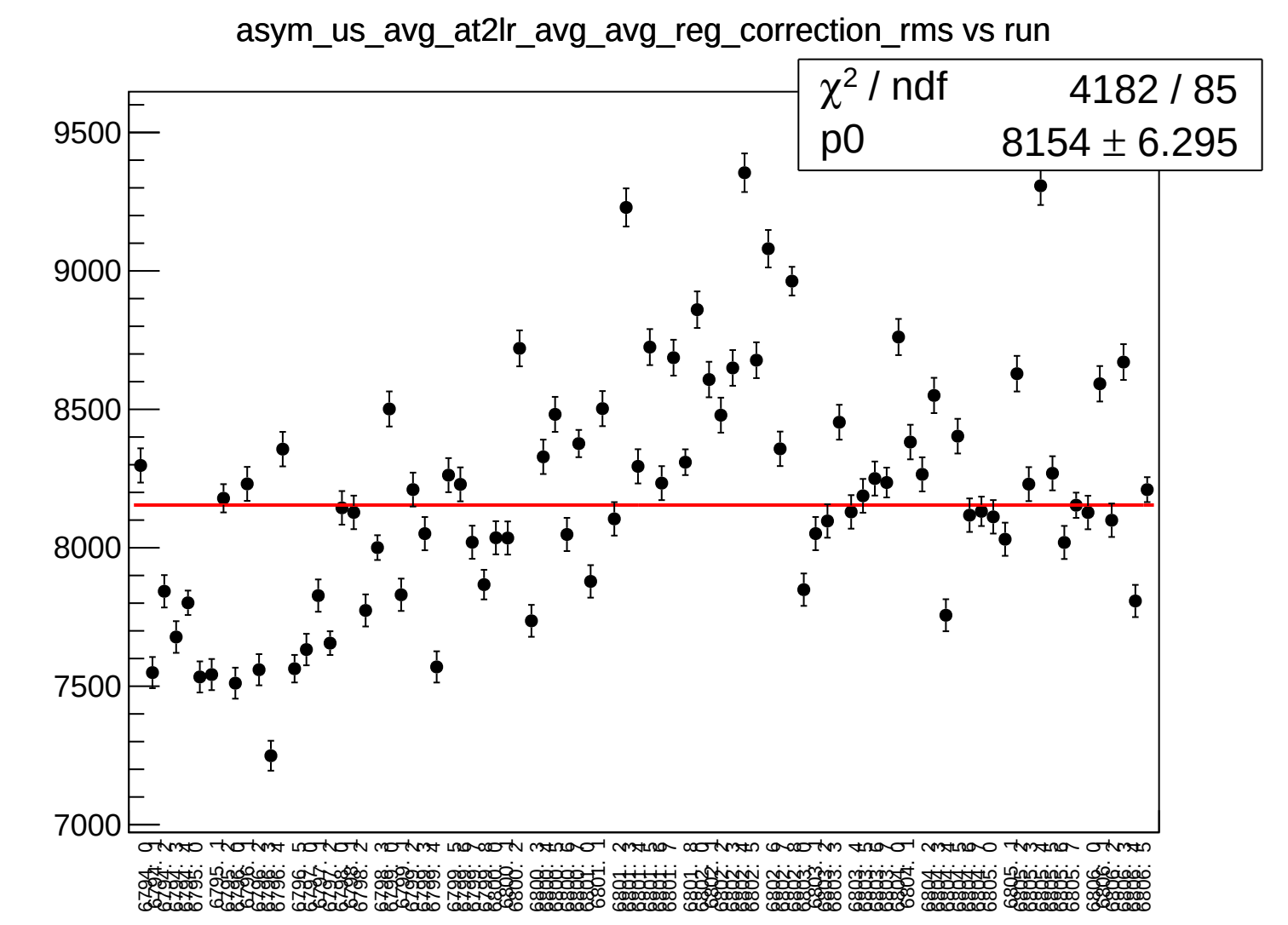

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.31 / 85
p0 −1071 ± 2394
×10³
pull
Entries 86
Mean 173.5
Std Dev 108.1

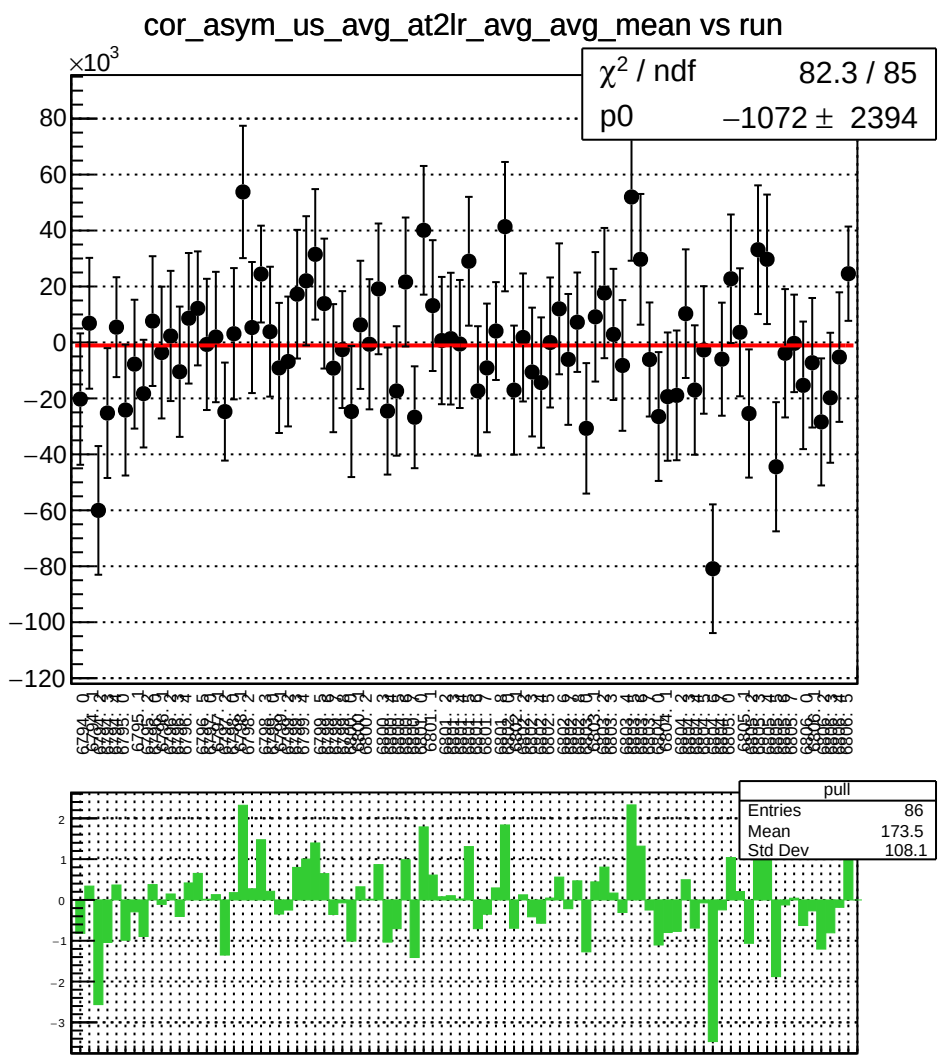

pull1D
Entries 86
Mean −0.004075
Std Dev 0.9783

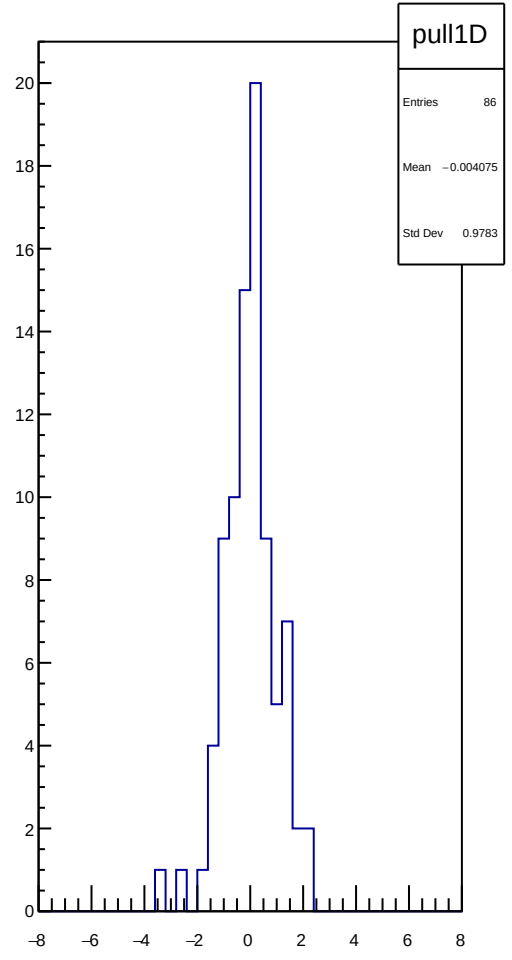

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 140.2 / 85
p0 2196 ± 1.693
2260
2240
2220
2200
2180
2160
2140

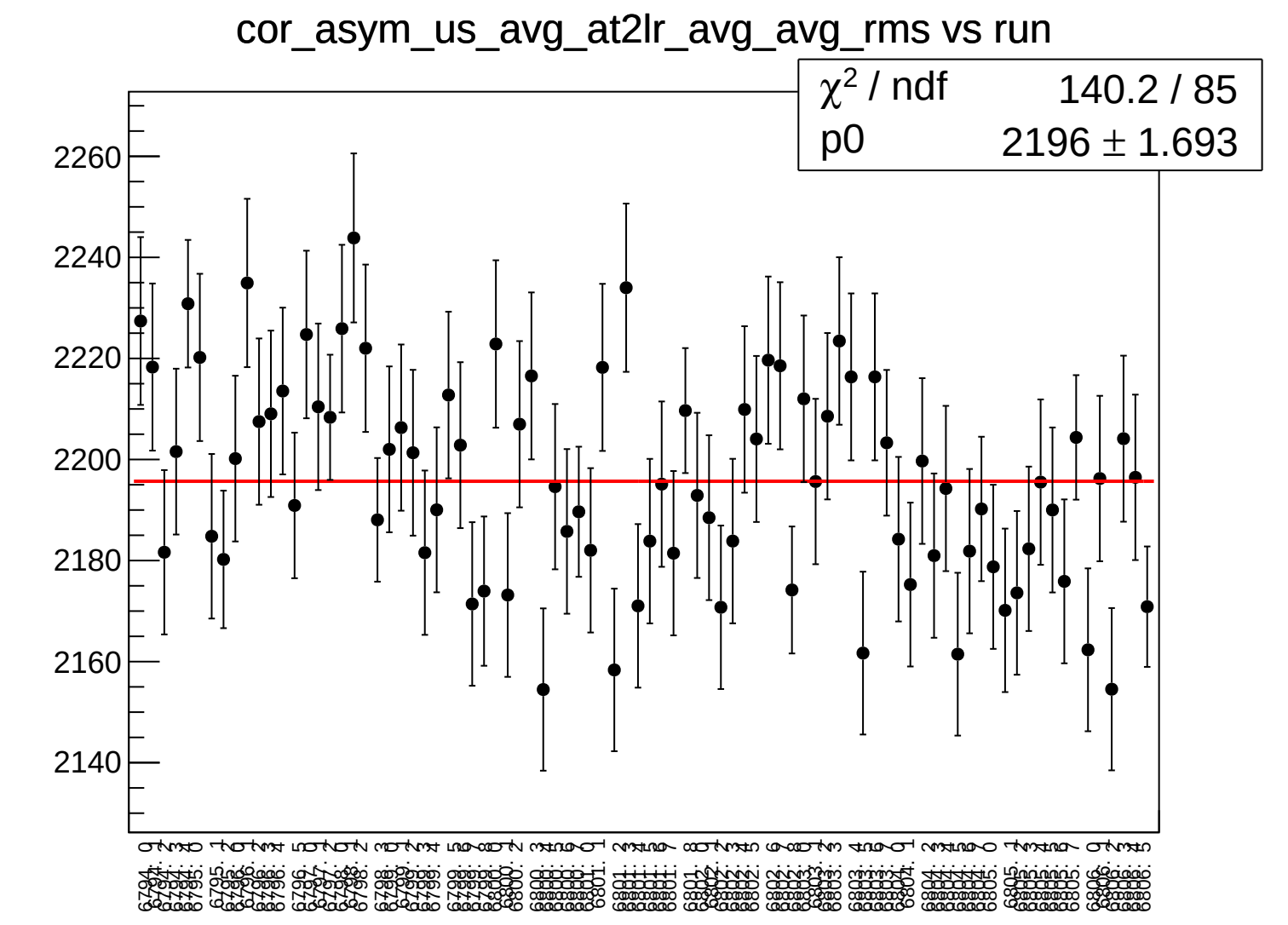

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.67 / 85
p0 −7562 ± 8902
pull
Entries 86
Mean −88.09
Std Dev 0

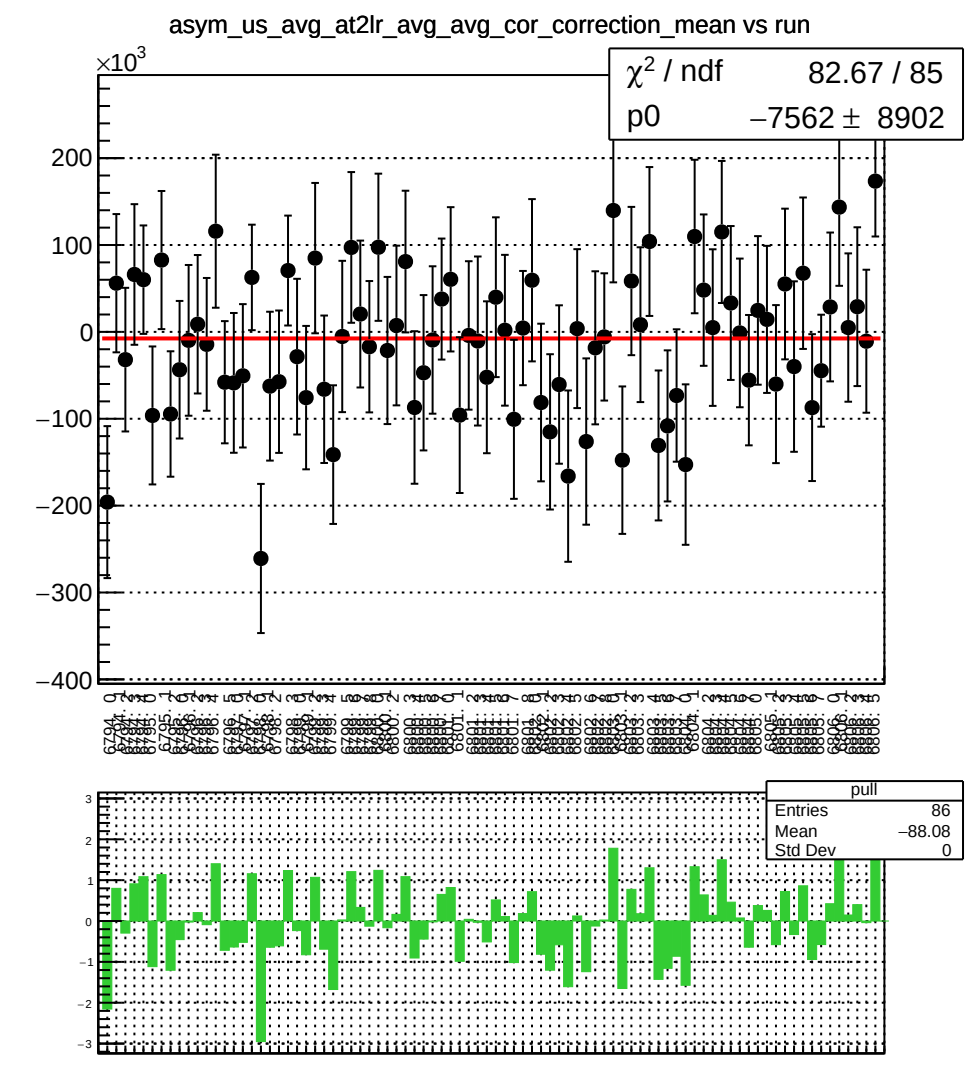

pull1D
Entries 86
Mean −0.02636
Std Dev 0.9801

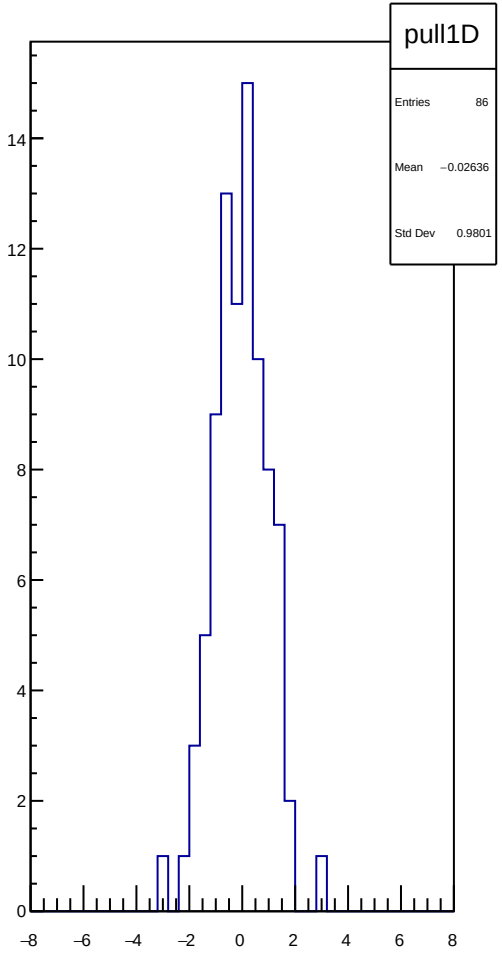

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 4182 / 85
p0 8154 ± 6.295
9500
9000
8500
8000
7500
7000

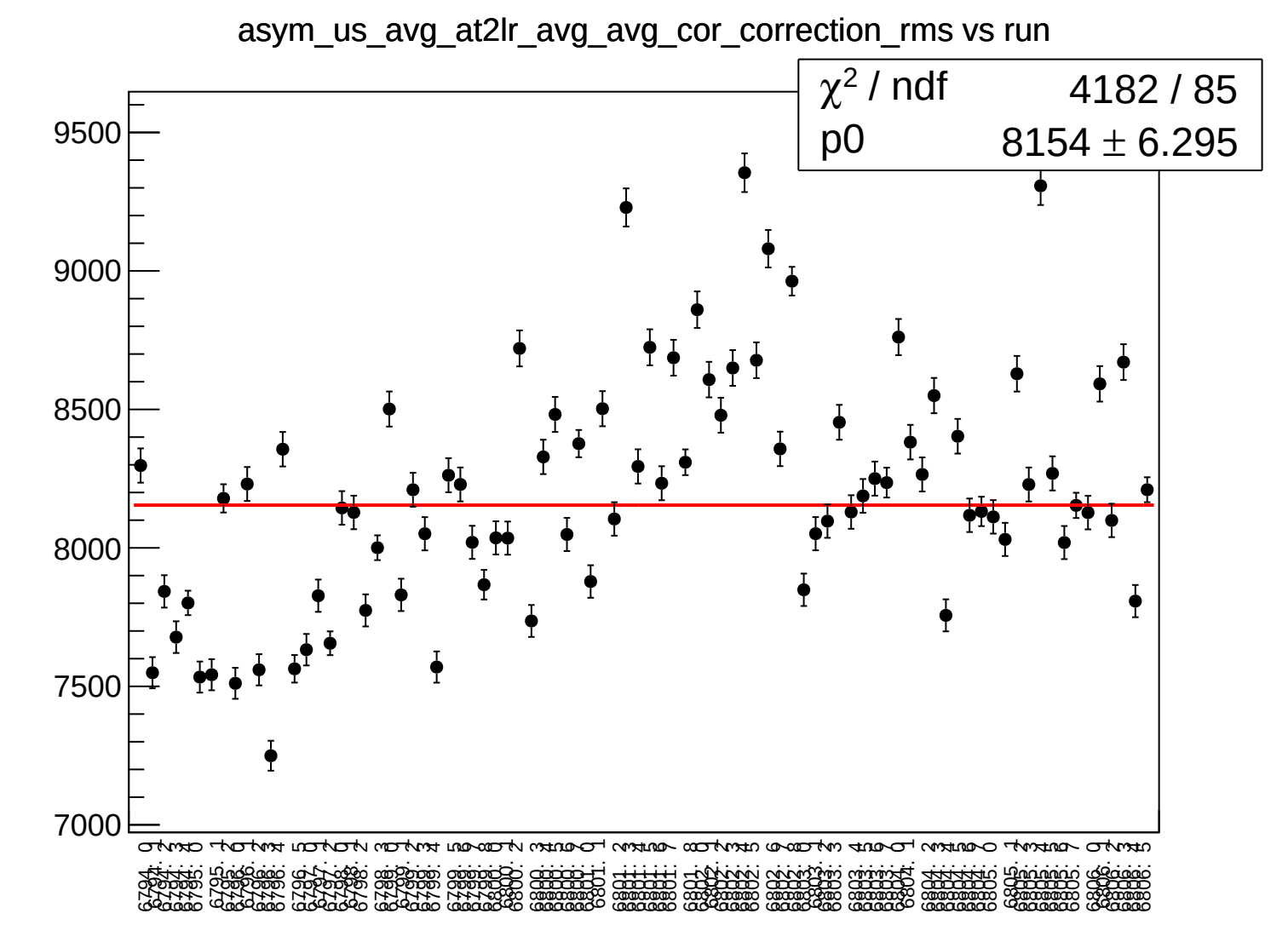

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 82.3 / 85
p0 −1072 ± 2394
pull
Entries 86
Mean 173.5
Std Dev 108.1

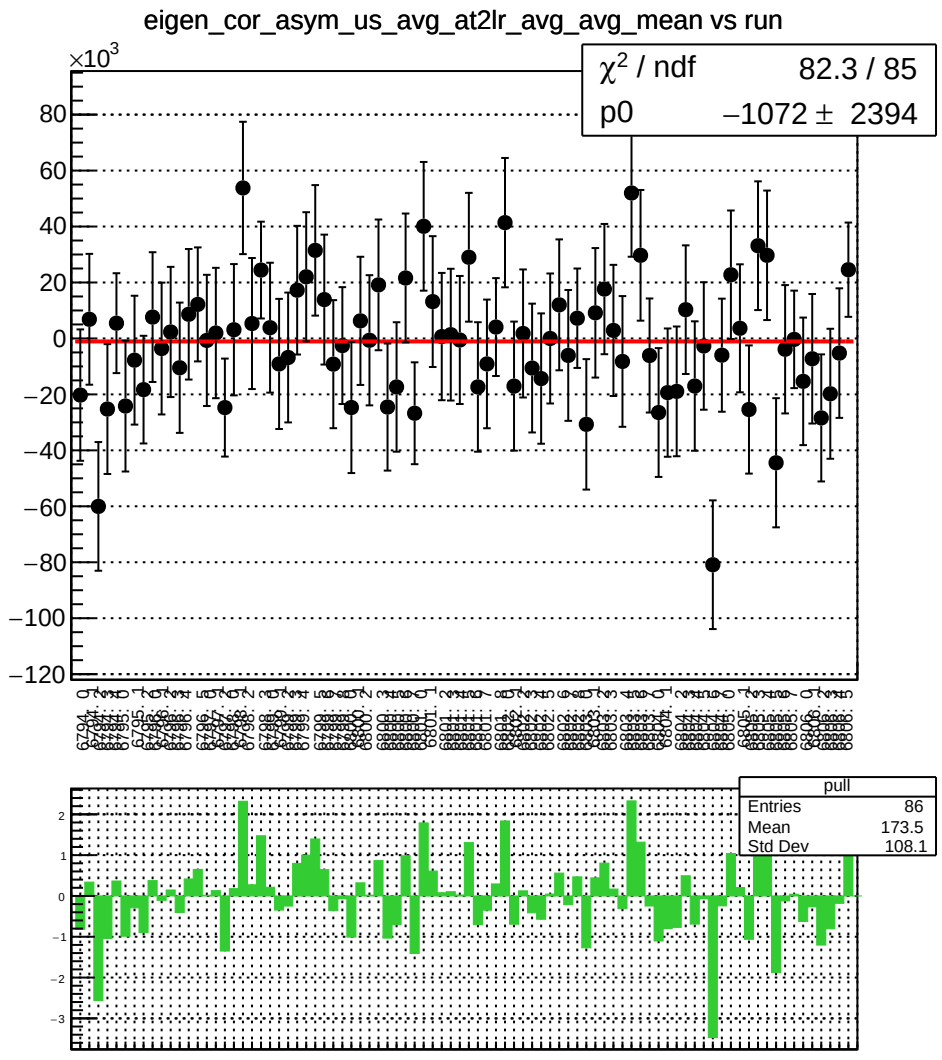

pull1D
Entries 86
Mean −0.004075
Std Dev 0.9783

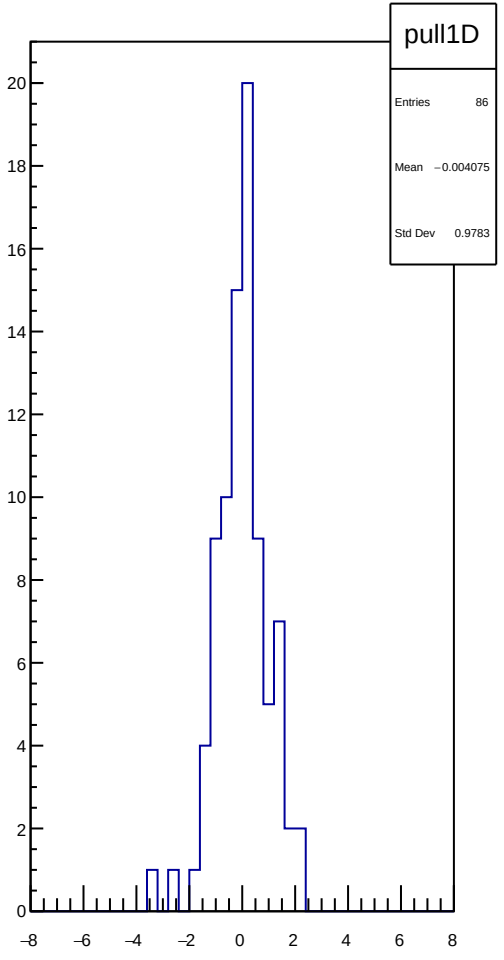

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 140.2 / 85
p0 2196 ± 1.693
2260
2240
2220
2200
2180
2160
2140

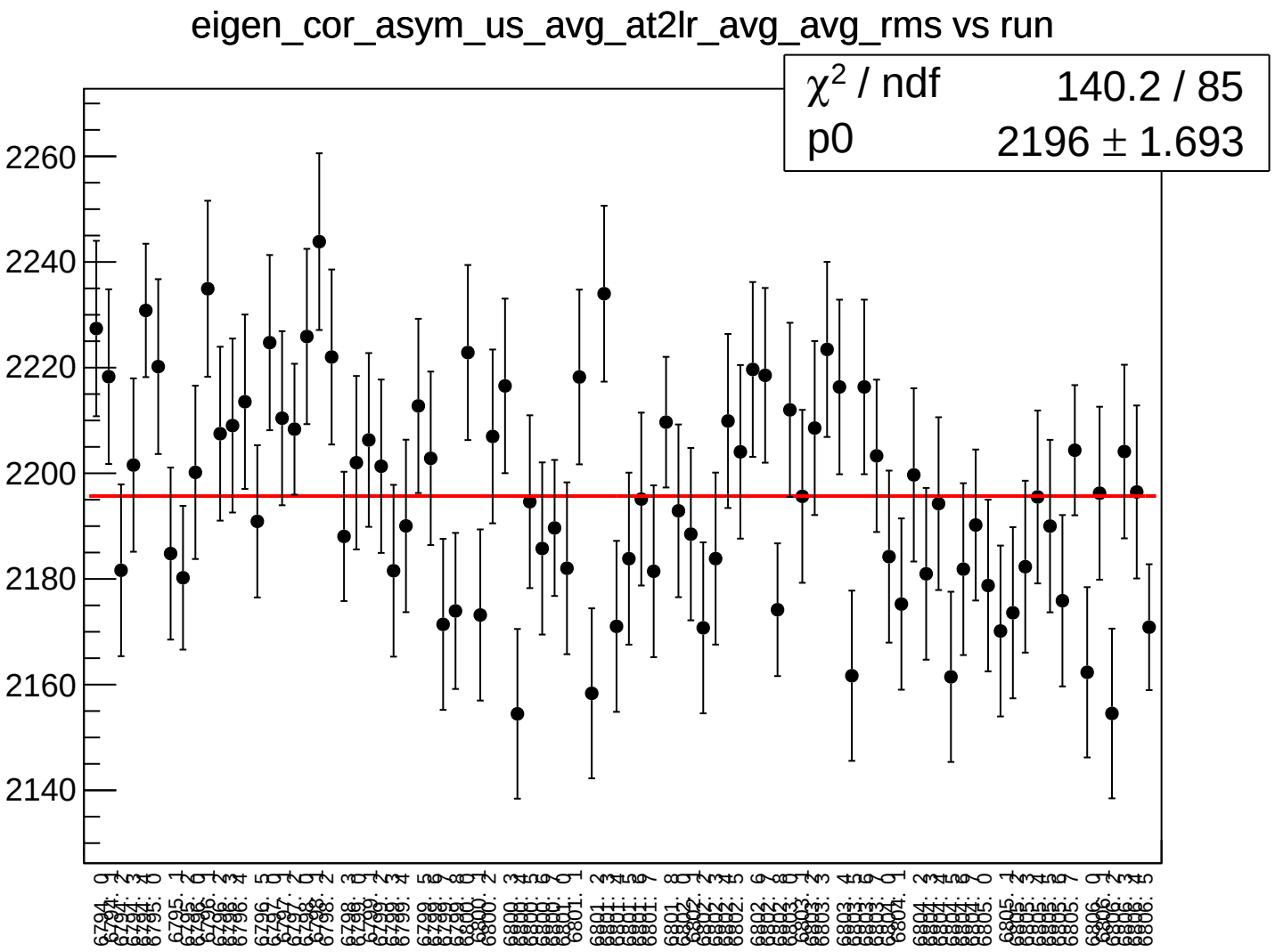

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.67 / 85
p0 −7562 ± 8902
pull
Entries 86
Mean −88.08
Std Dev 0

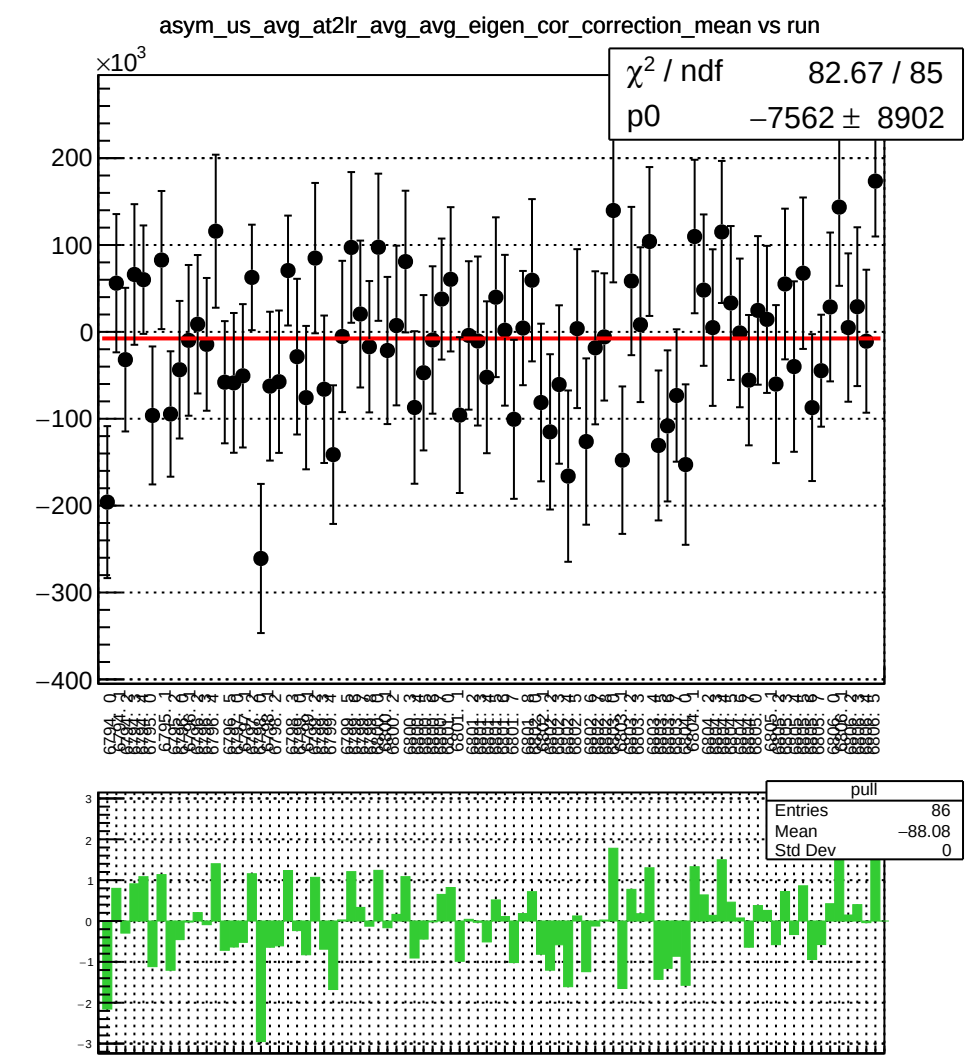

pull1D
Entries 86
Mean −0.02636
Std Dev 0.9801

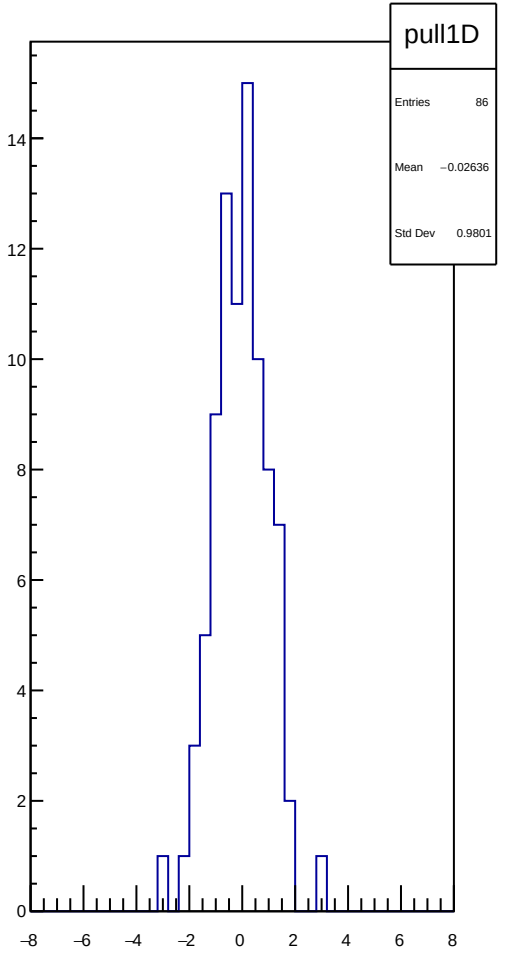

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 4182 / 85
p0 8154 ± 6.295
9500
9000
8500
8000
7500
7000

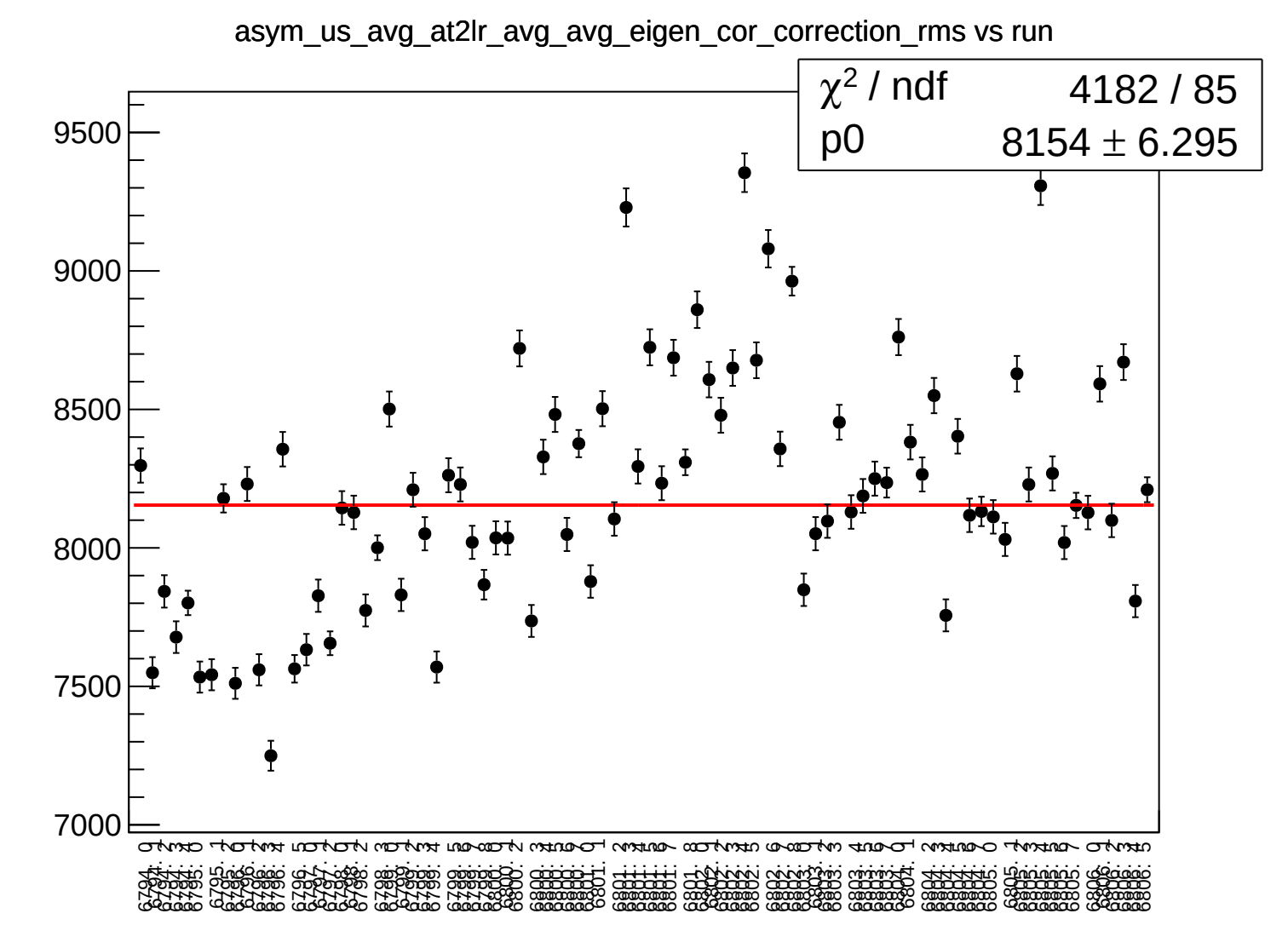

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 82.3 / 85
p0 −1072 ± 2394
pull
Entries 86
Mean 173.5
Std Dev 108.1

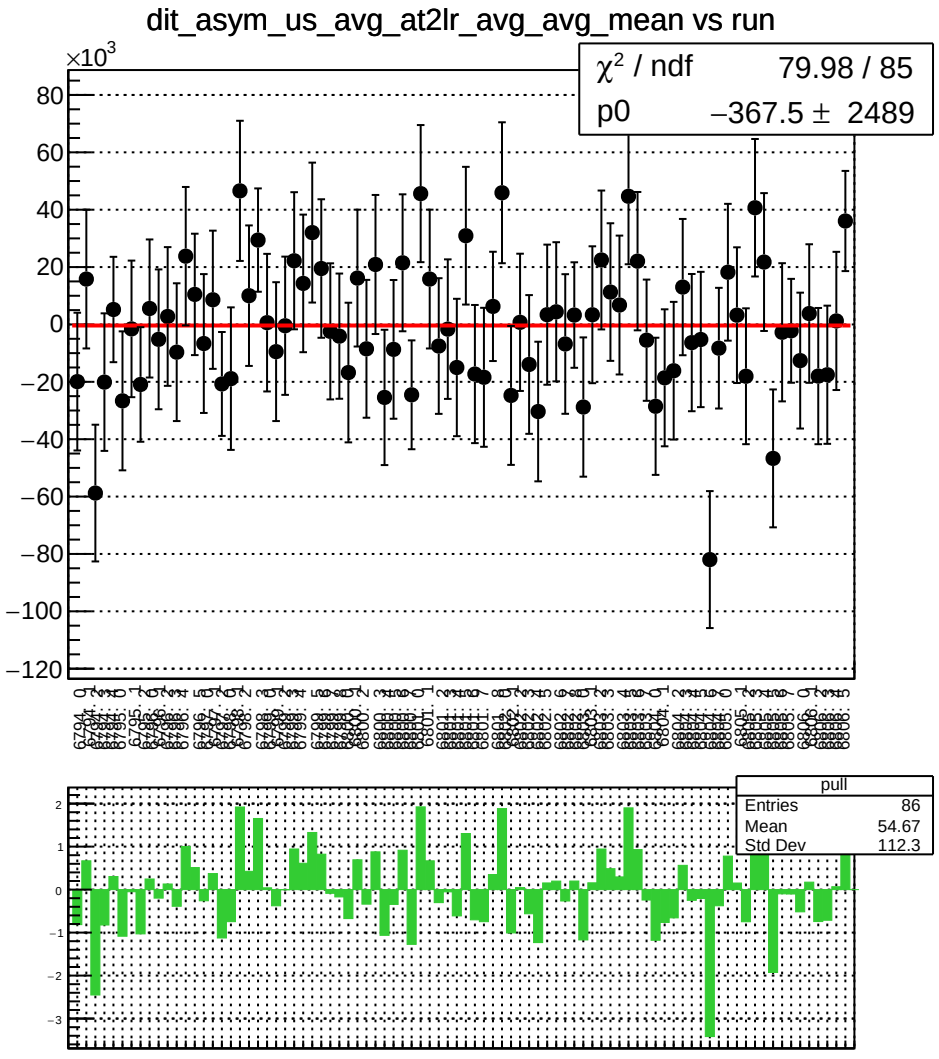

pull1D
Entries 86
Mean −0.004075
Std Dev 0.9783

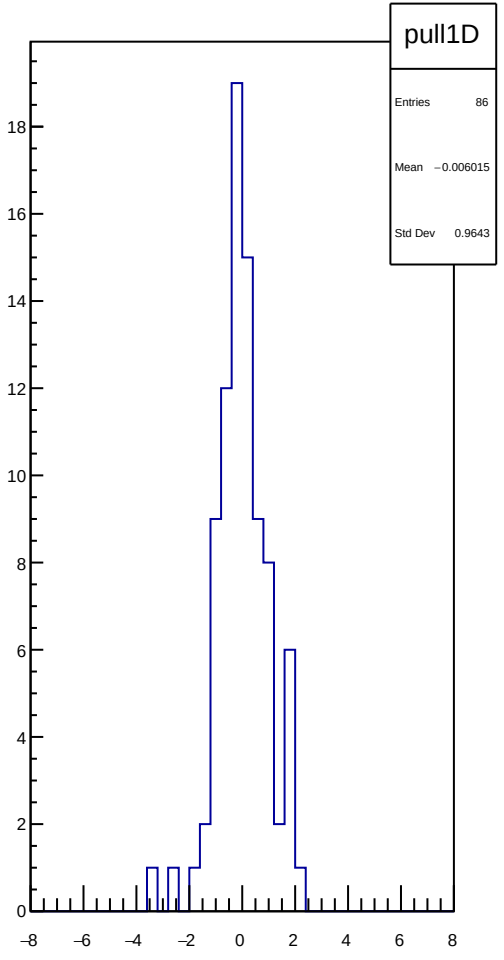

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 140.2 / 85
p0 2196 ± 1.693
2260
2240
2220
2200
2180
2160
2140

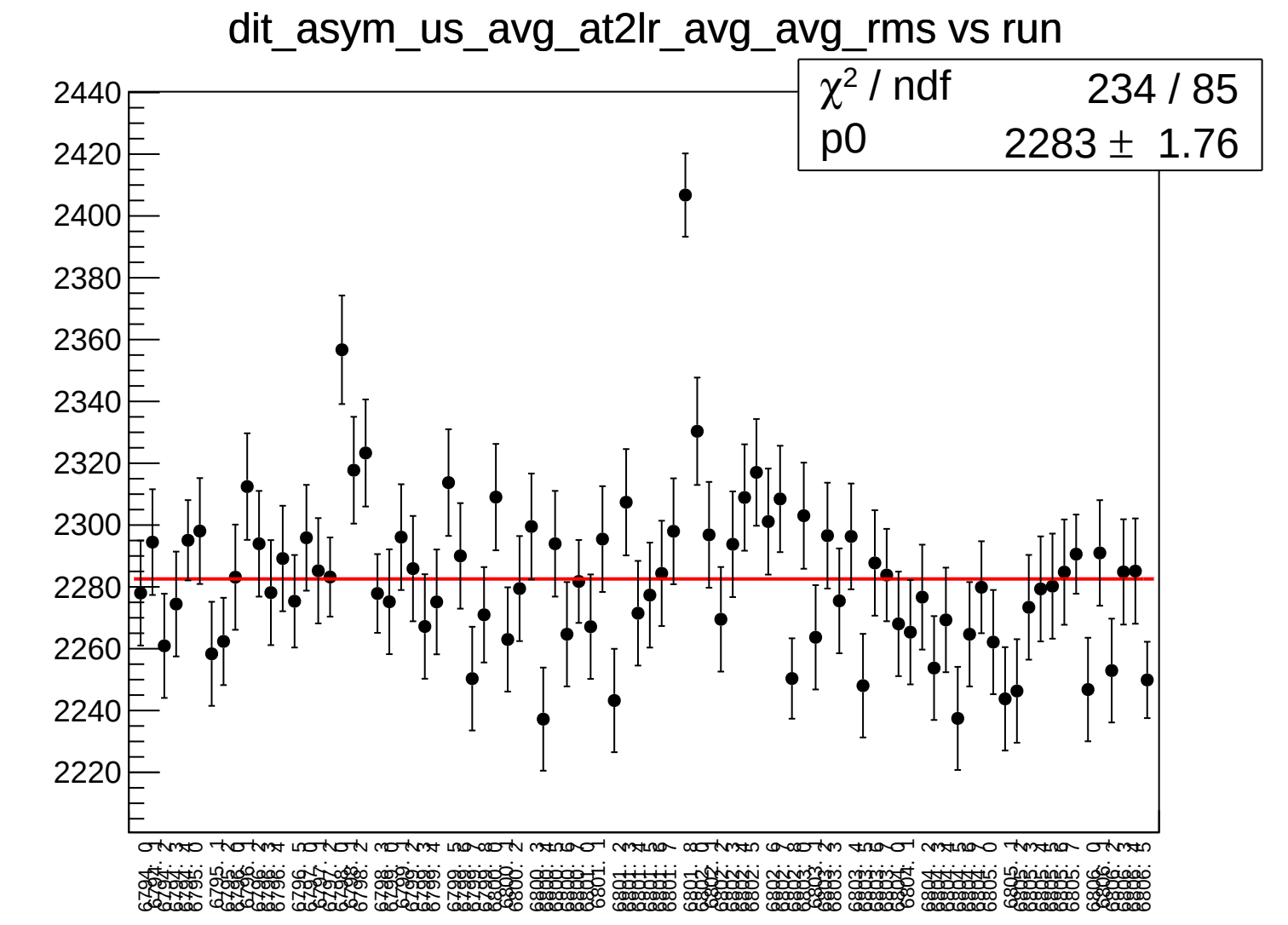

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.67 / 85
p0 −7562 ± 8902
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean −88.08
Std Dev 0
3
2
1
0
−1
−2
−3

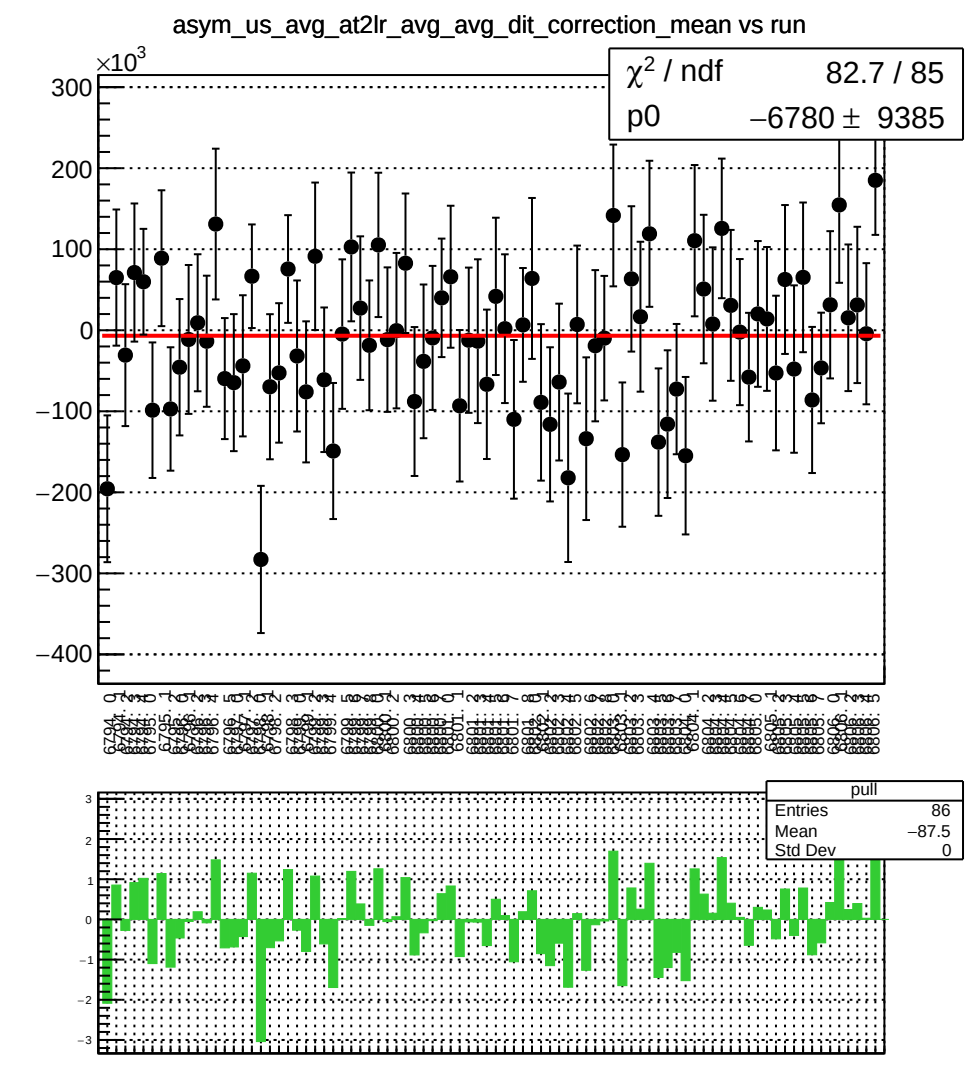

pull1D
Entries 86
Mean −0.02636
Std Dev 0.9801
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

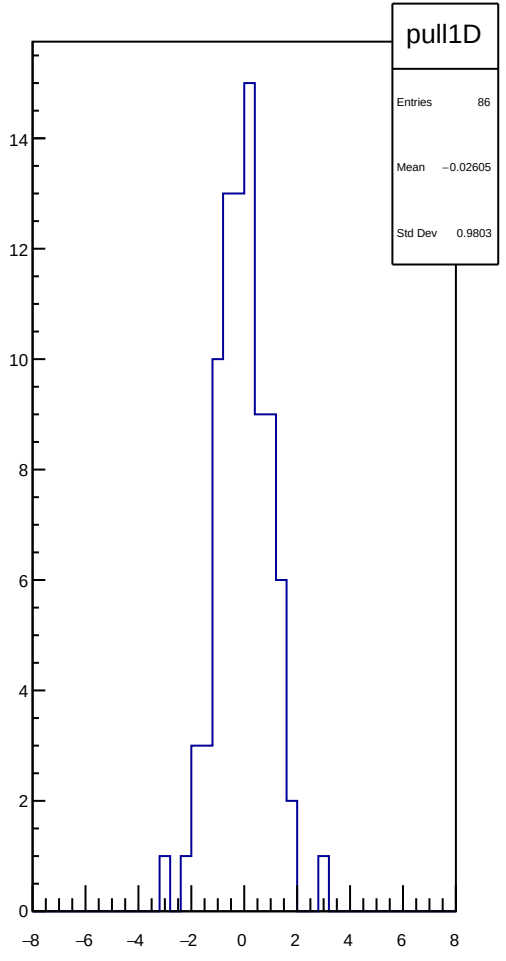

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4182 / 85
p0 8154 ± 6.295
9500
9000
8500
8000
7500
7000

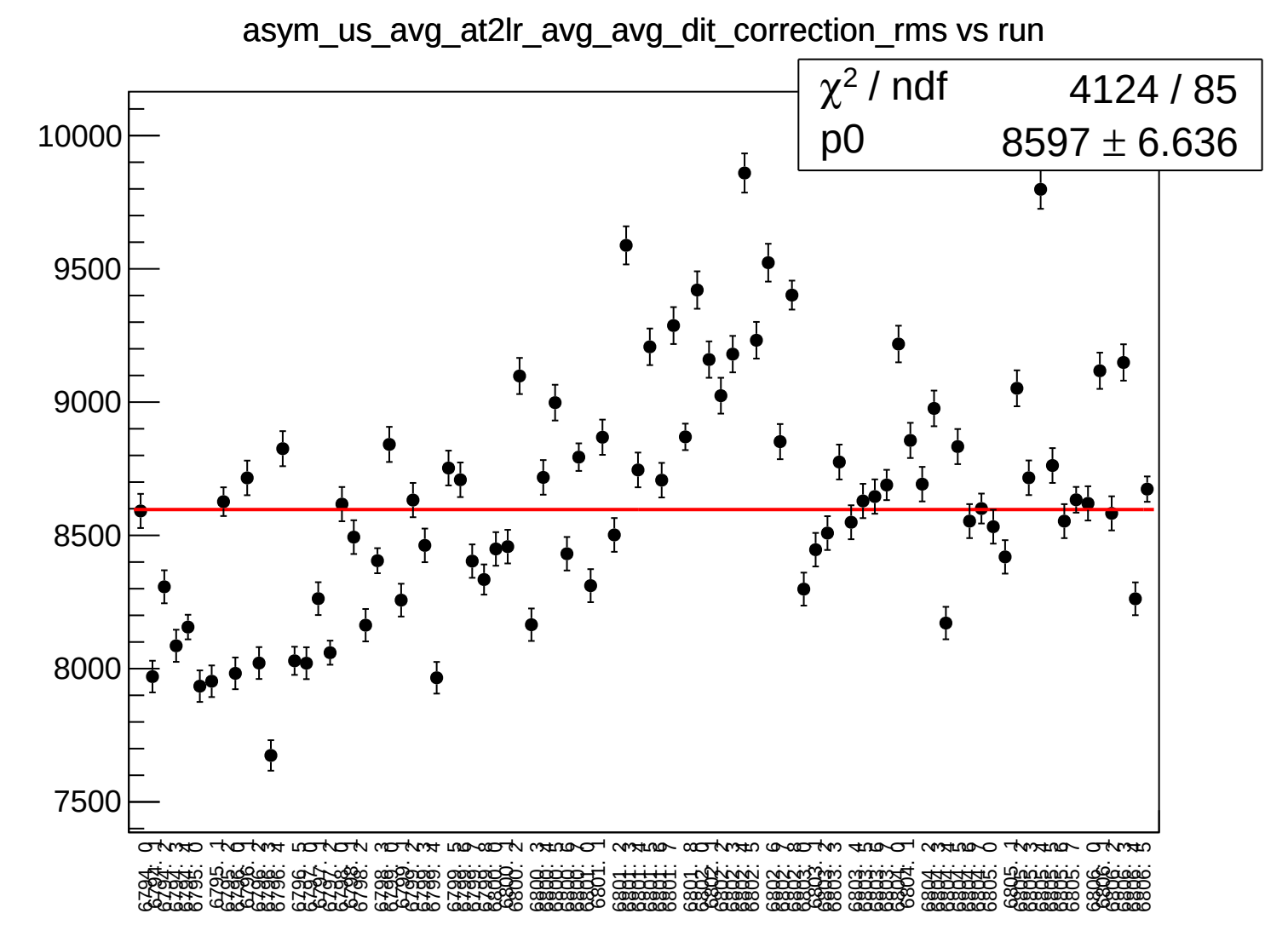

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 79.98 / 85
p0 −367.5 ± 2489
pull
Entries 86
Mean 54.67
Std Dev 112.3

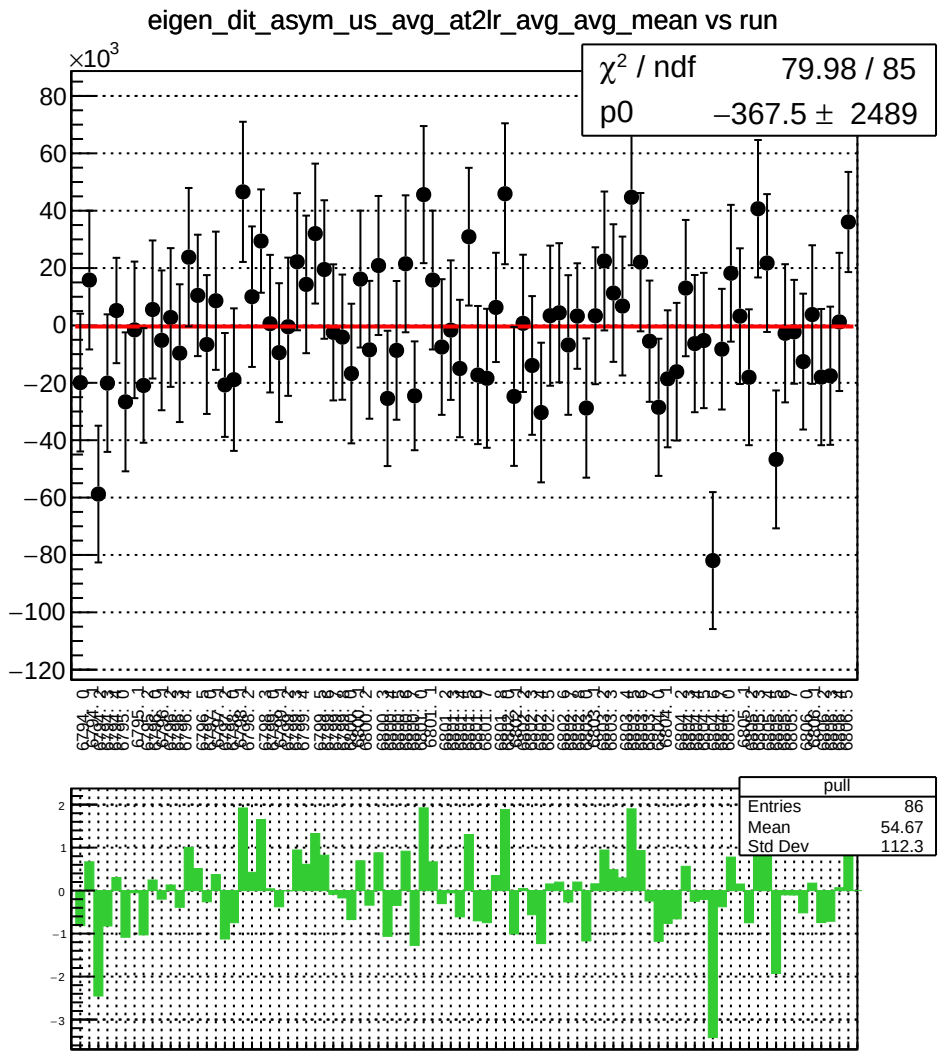

pull1D
Entries 86
Mean −0.006015
Std Dev 0.9643

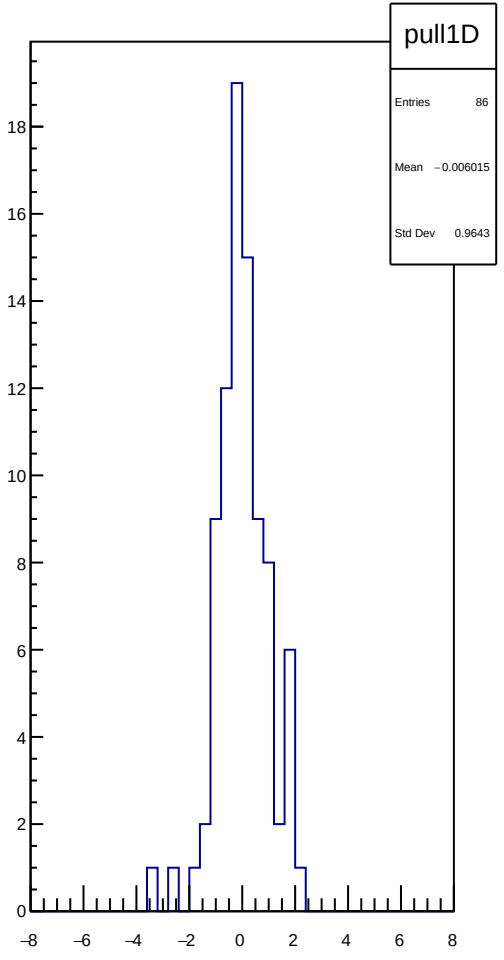

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 234 / 85
p0 2283 ± 1.76
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

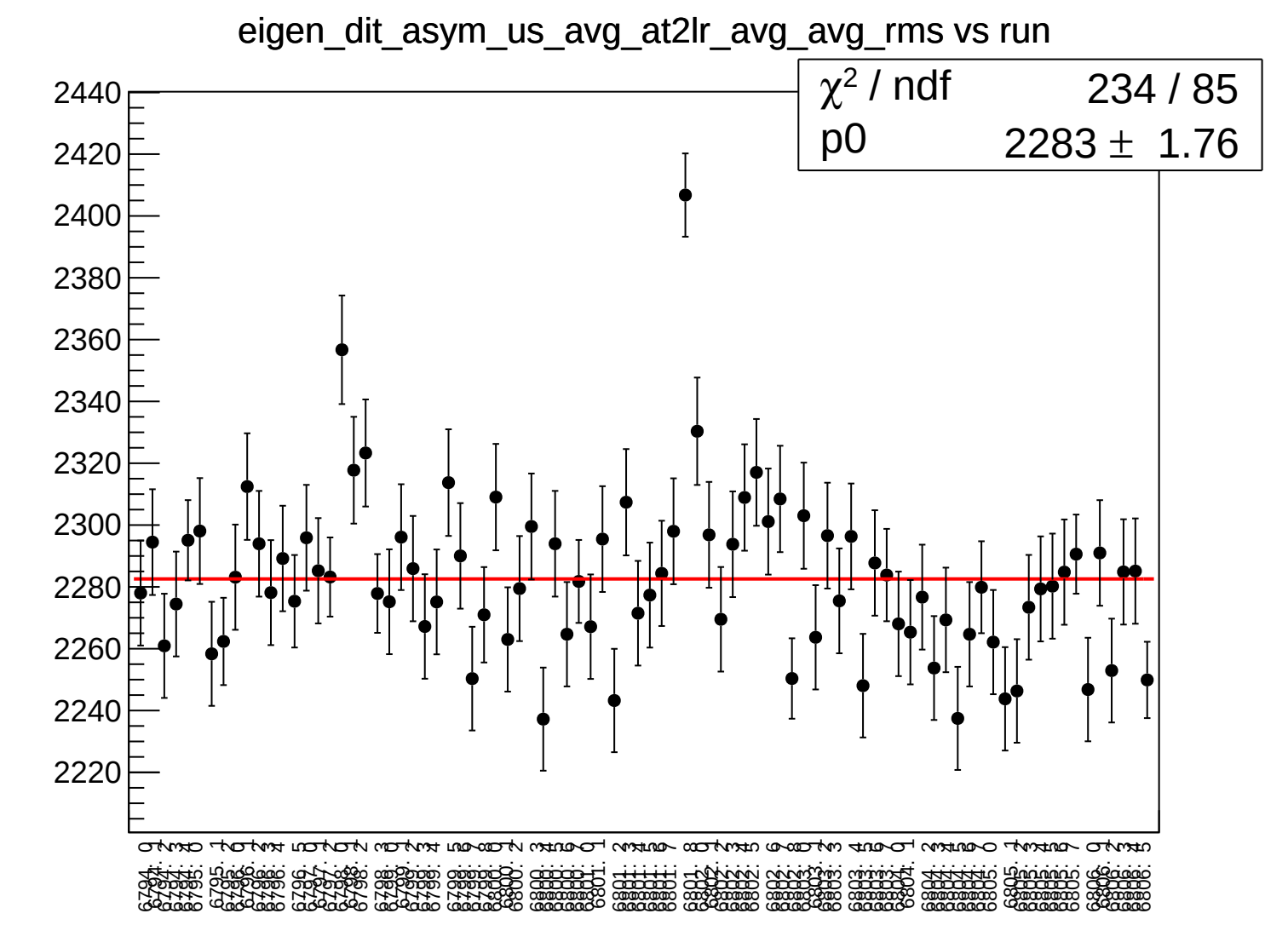

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 82.7 / 85
p0 −6780 ± 9385
pull
Entries 86
Mean −87.5
Std Dev 0

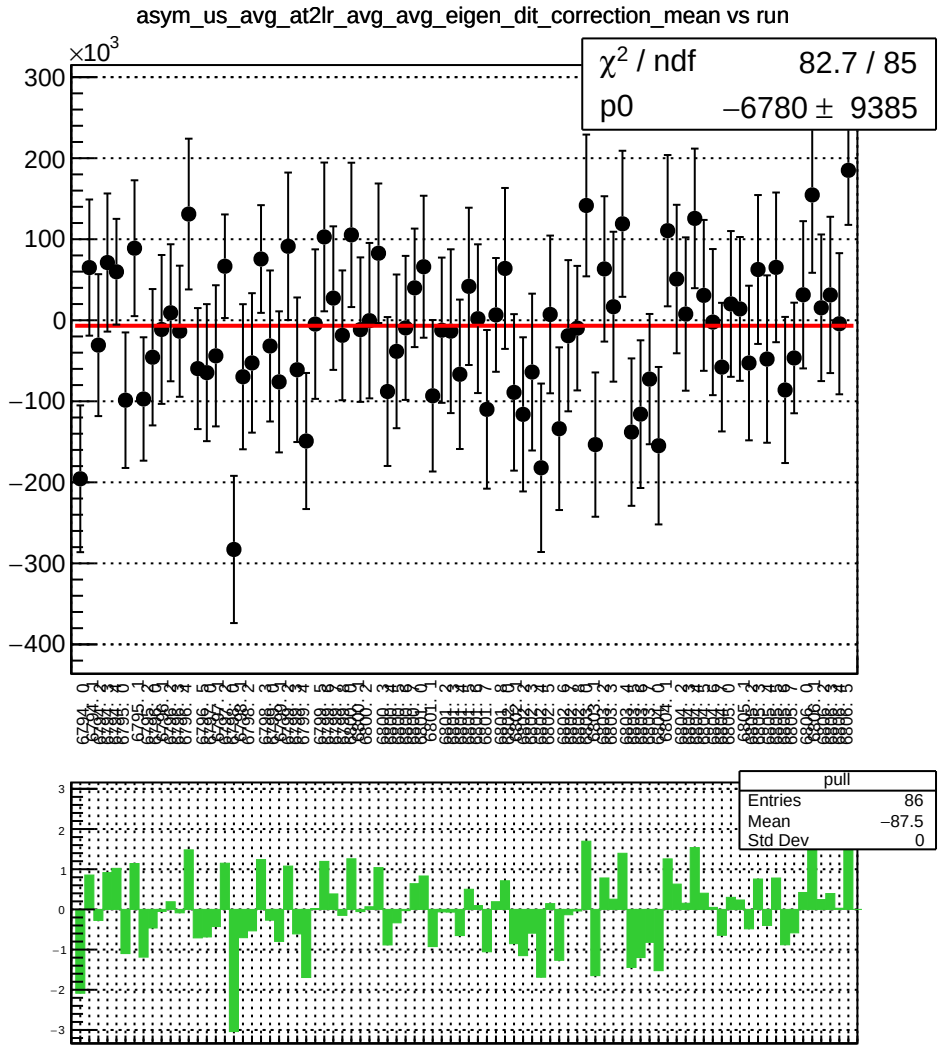

pull1D
Entries 86
Mean −0.02605
Std Dev 0.9803

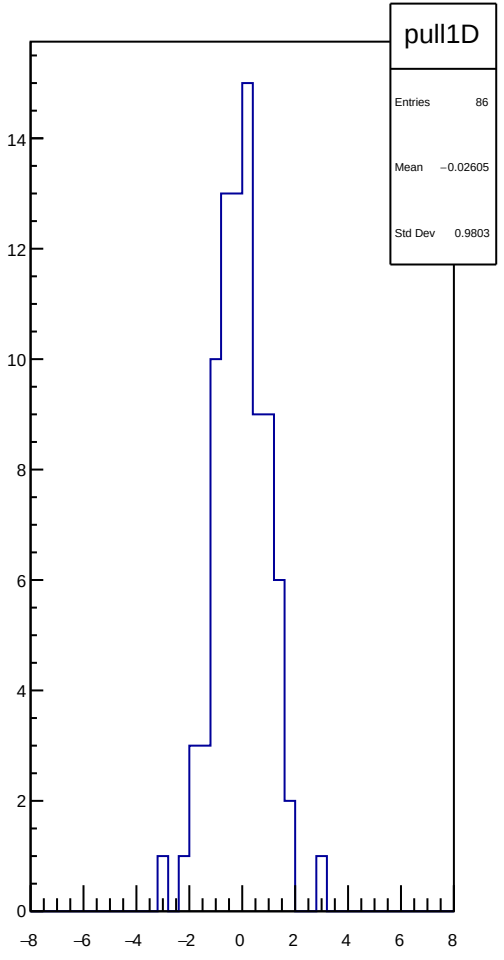

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4124 / 85
p0 8597 ± 6.636
10000
9500
9000
8500
8000
7500

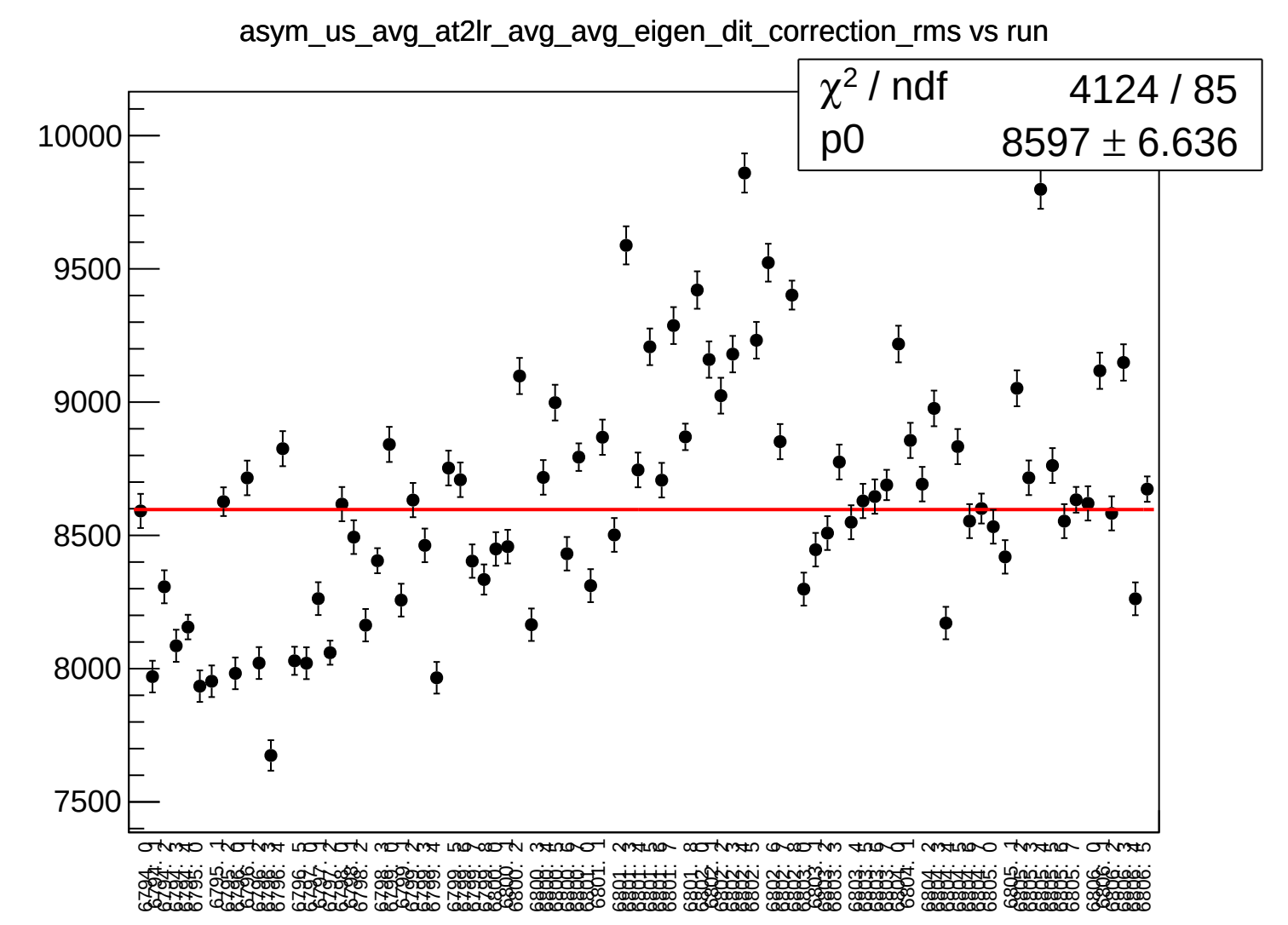

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 79.98 / 85
p0 −367.5 ± 2489
pull
Entries 86
Mean 54.67
Std Dev 112.3

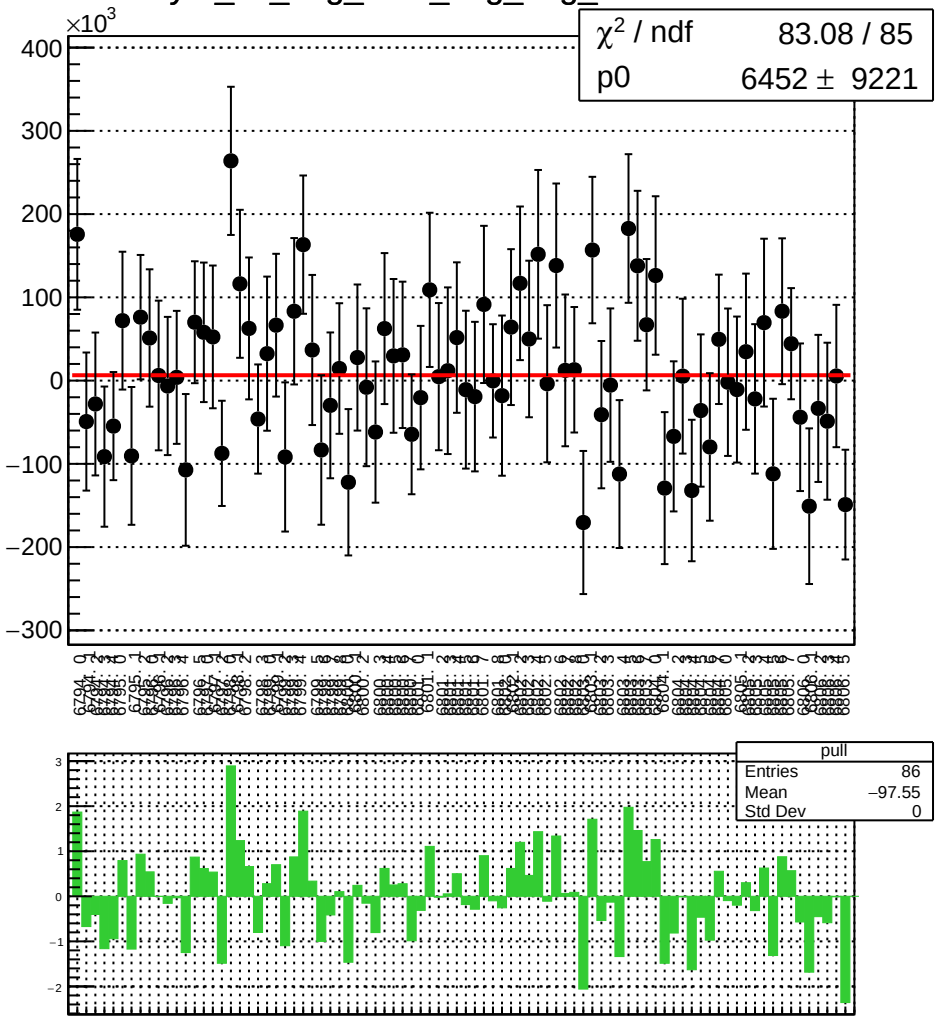

pull1D
Entries 86
Mean −0.006015
Std Dev 0.9643

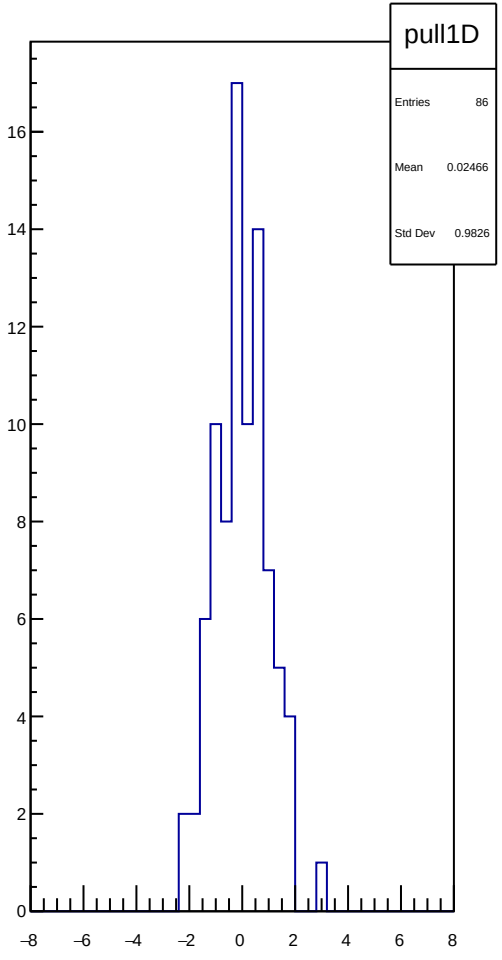

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 234 / 85
p0 2283 ± 1.76
2440
2420
2400
2380
2360
2340
2320
2300
2280
2260
2240
2220

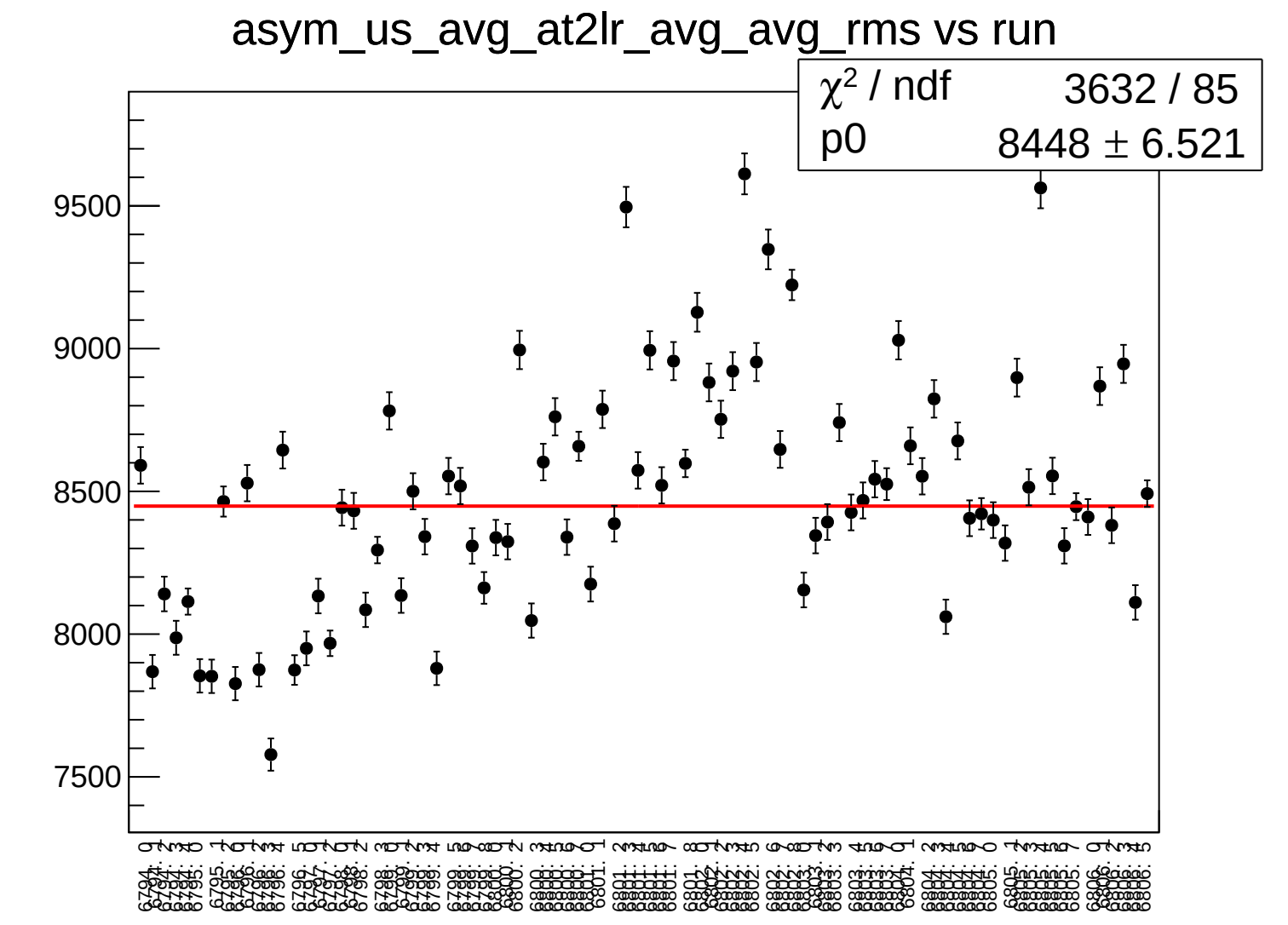

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.7 / 85
p0 −6780 ± 9385
pull
Entries 86
Mean −87.5
Std Dev 0

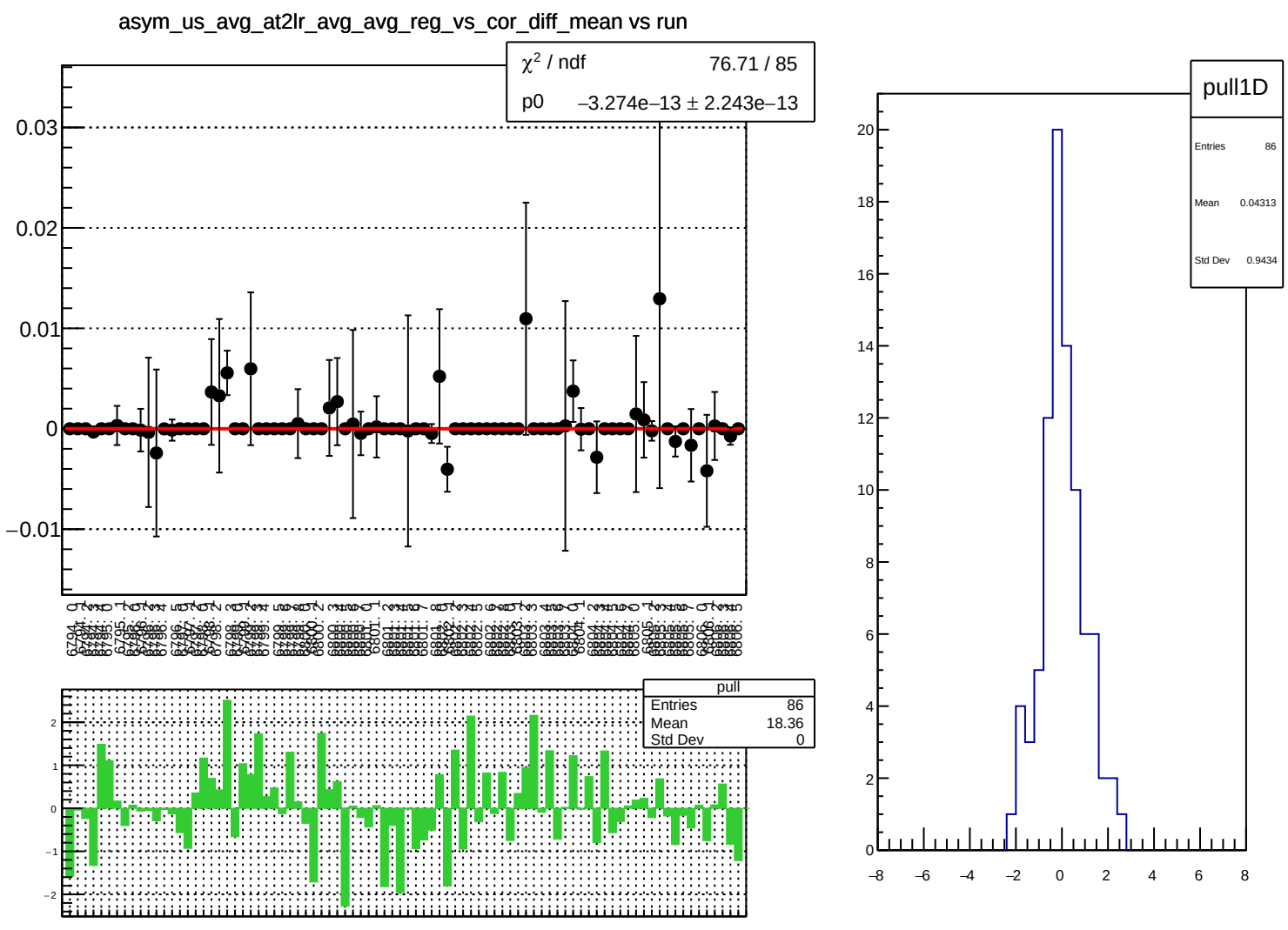

pull1D
Entries 86
Mean −0.02605
Std Dev 0.9803

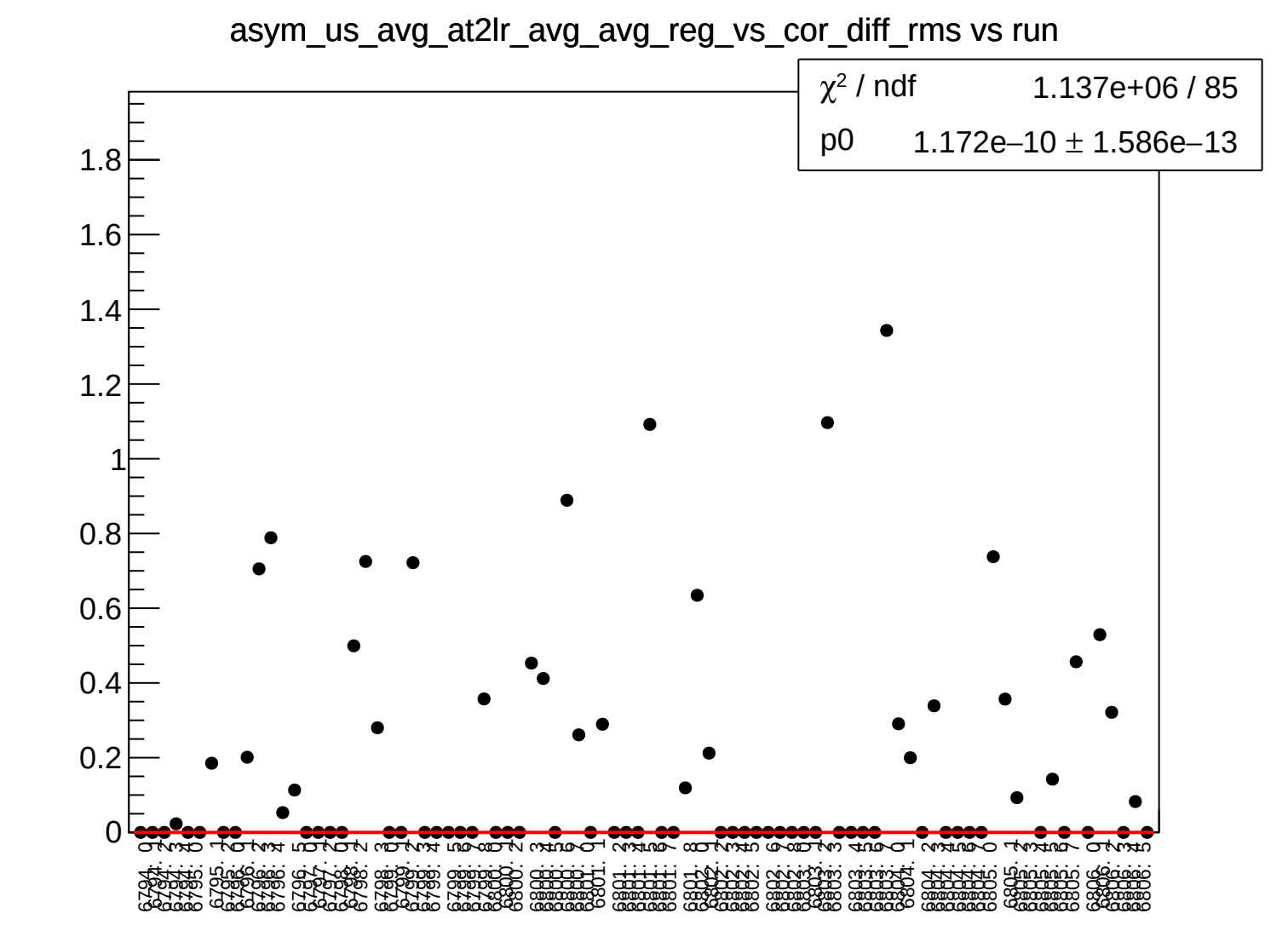

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4124 / 85
p0 8597 ± 6.636
10000
9500
9000
8500
8000
7500

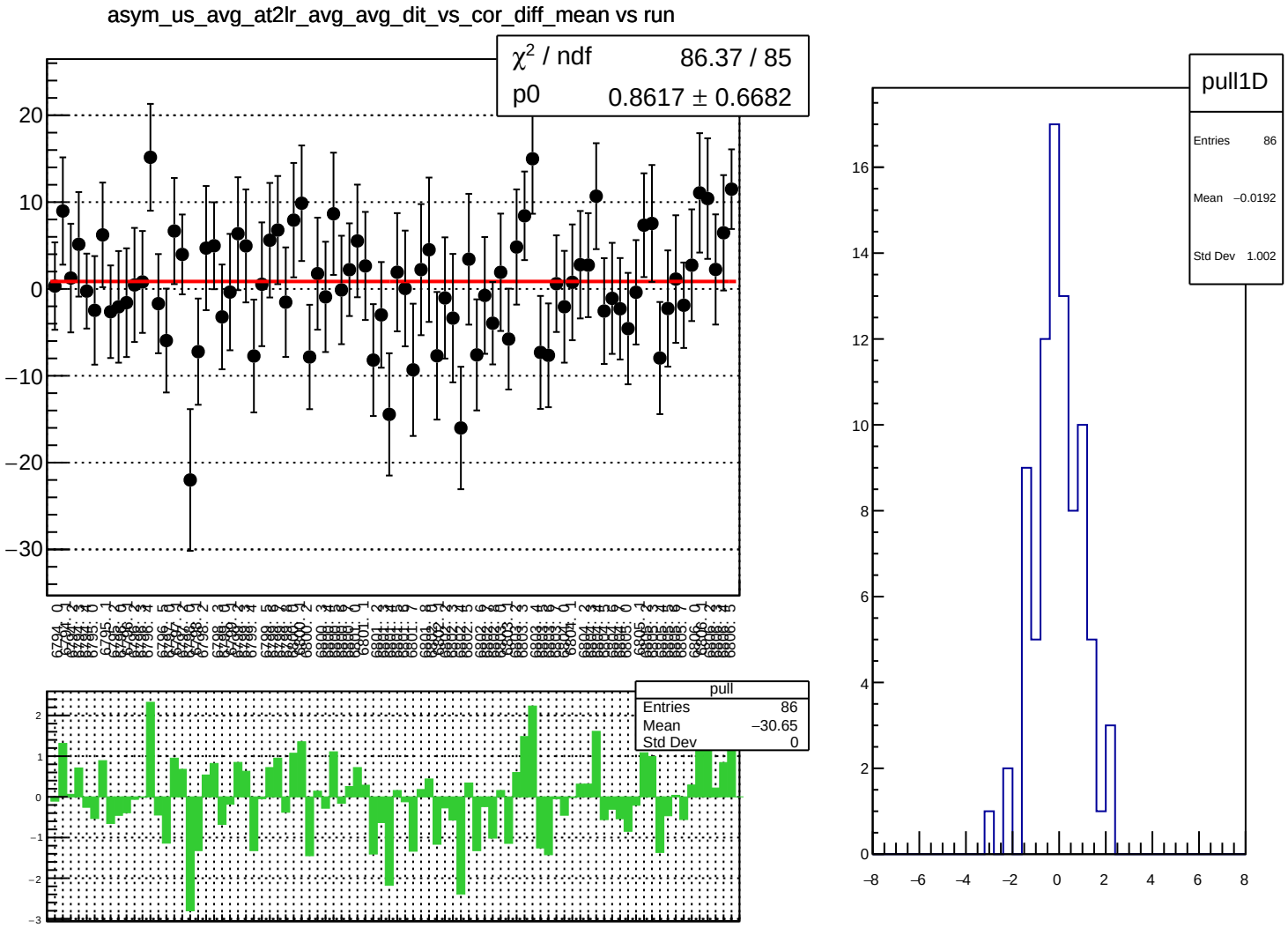

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 83.08 / 85
p0 6452 ± 9221
pull
Entries 86
Mean −97.55
Std Dev 0

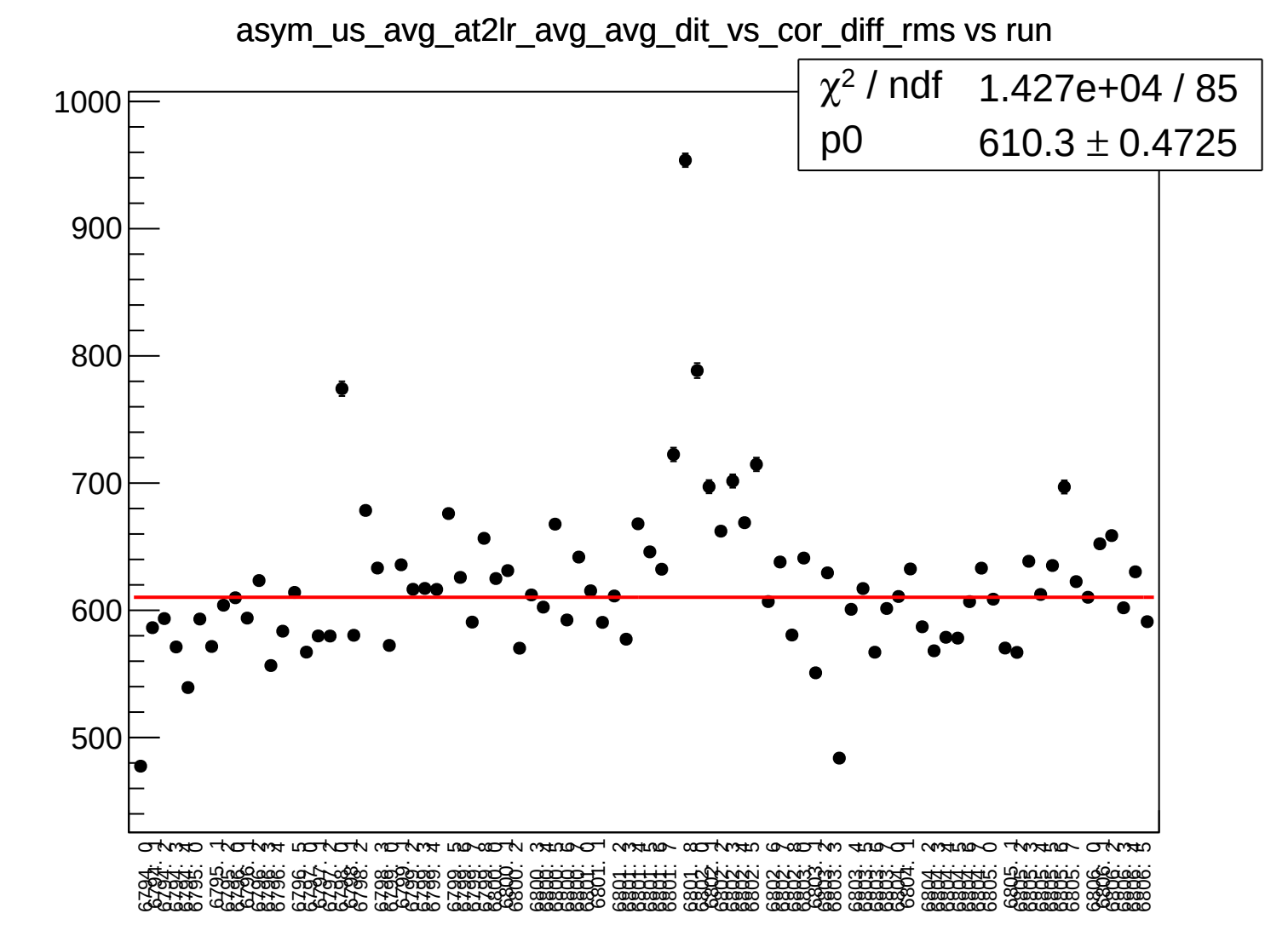

pull1D
Entries 86
Mean 0.02466
Std Dev 0.9826

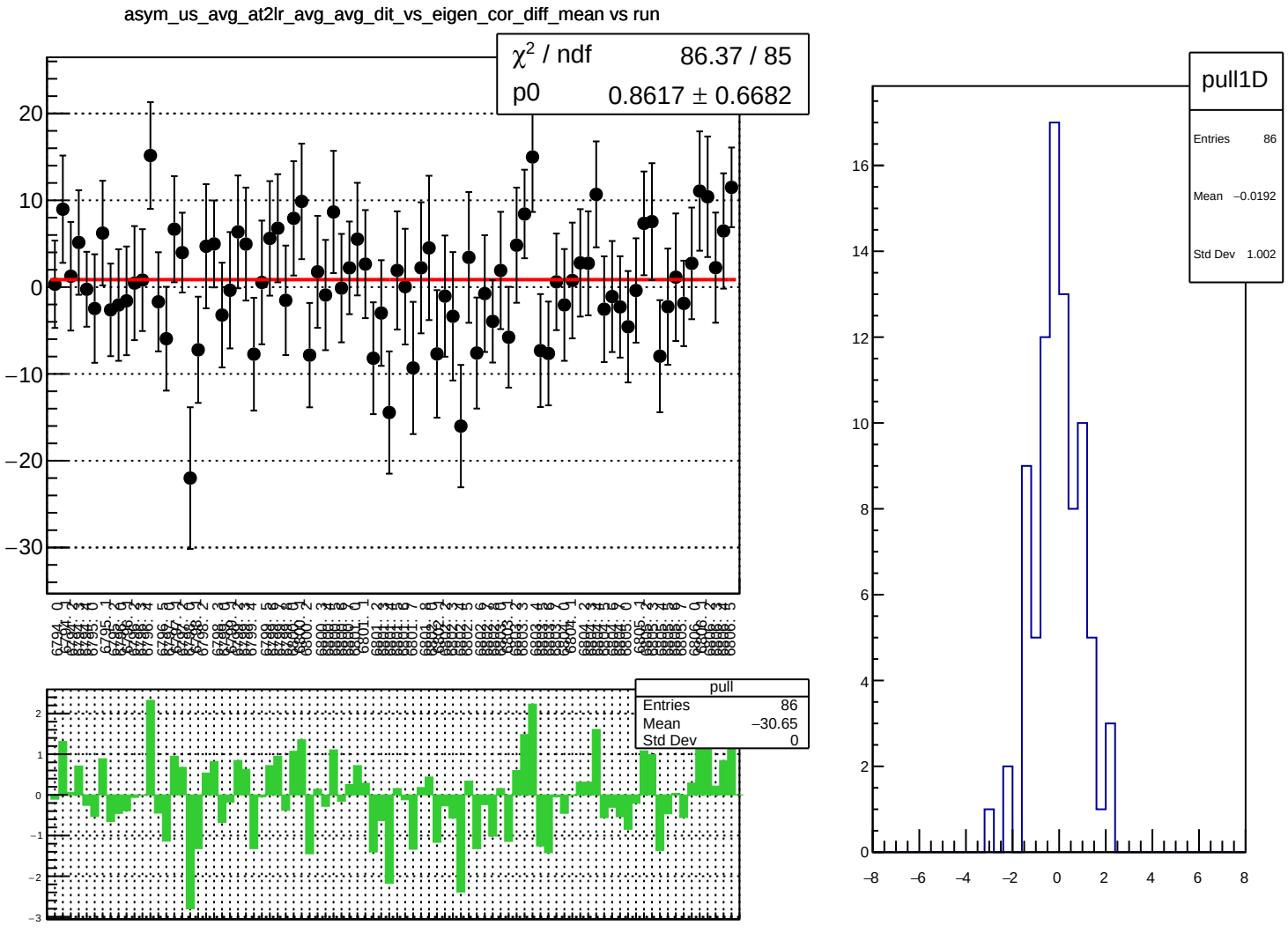

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 3632 / 85
p0 8448 ± 6.521
9500
9000
8500
8000
7500

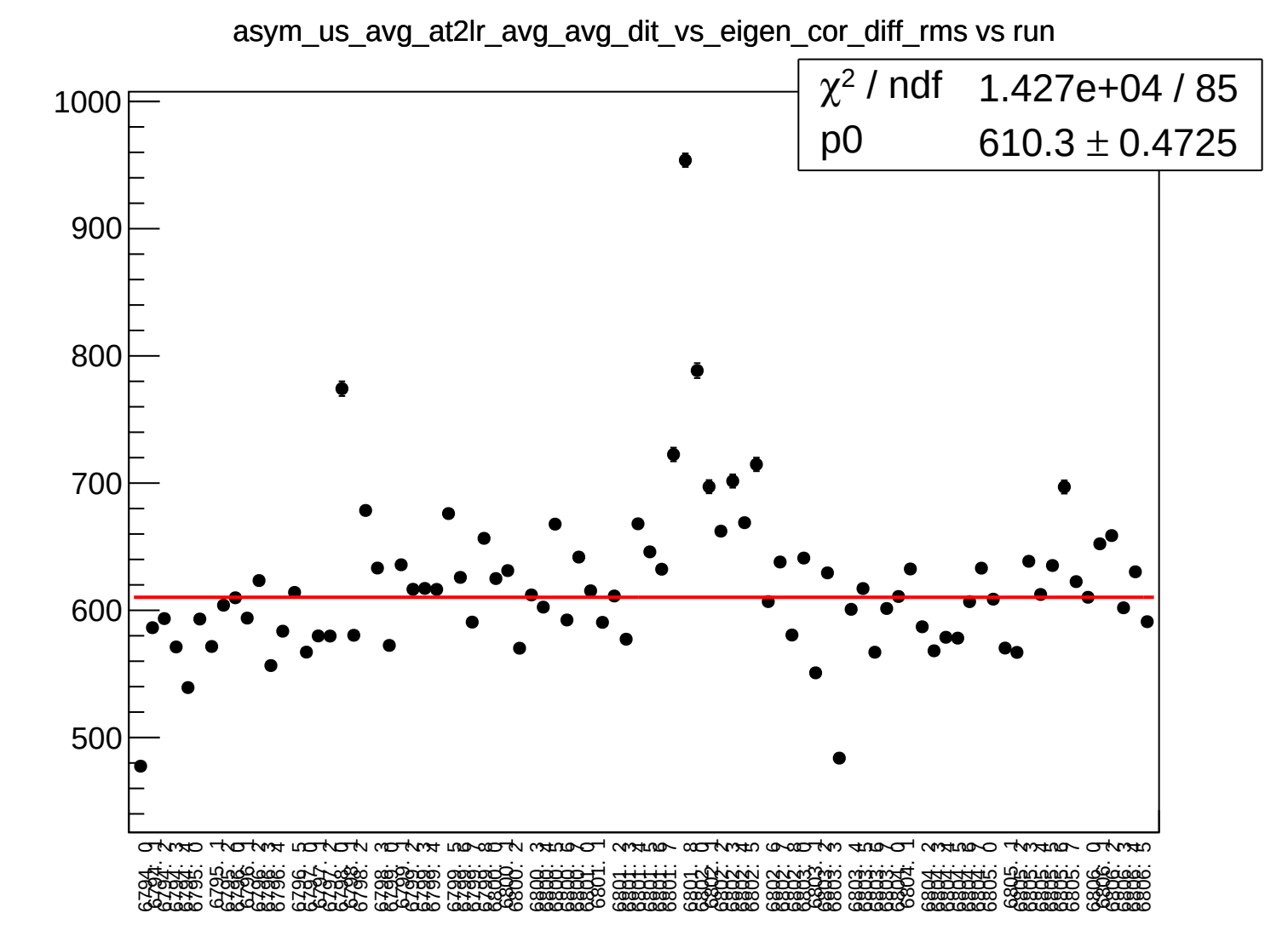

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.71 / 85
p0 −3.274e−13 ± 2.243e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 86
Mean 18.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.04313
Std Dev 0.9434
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

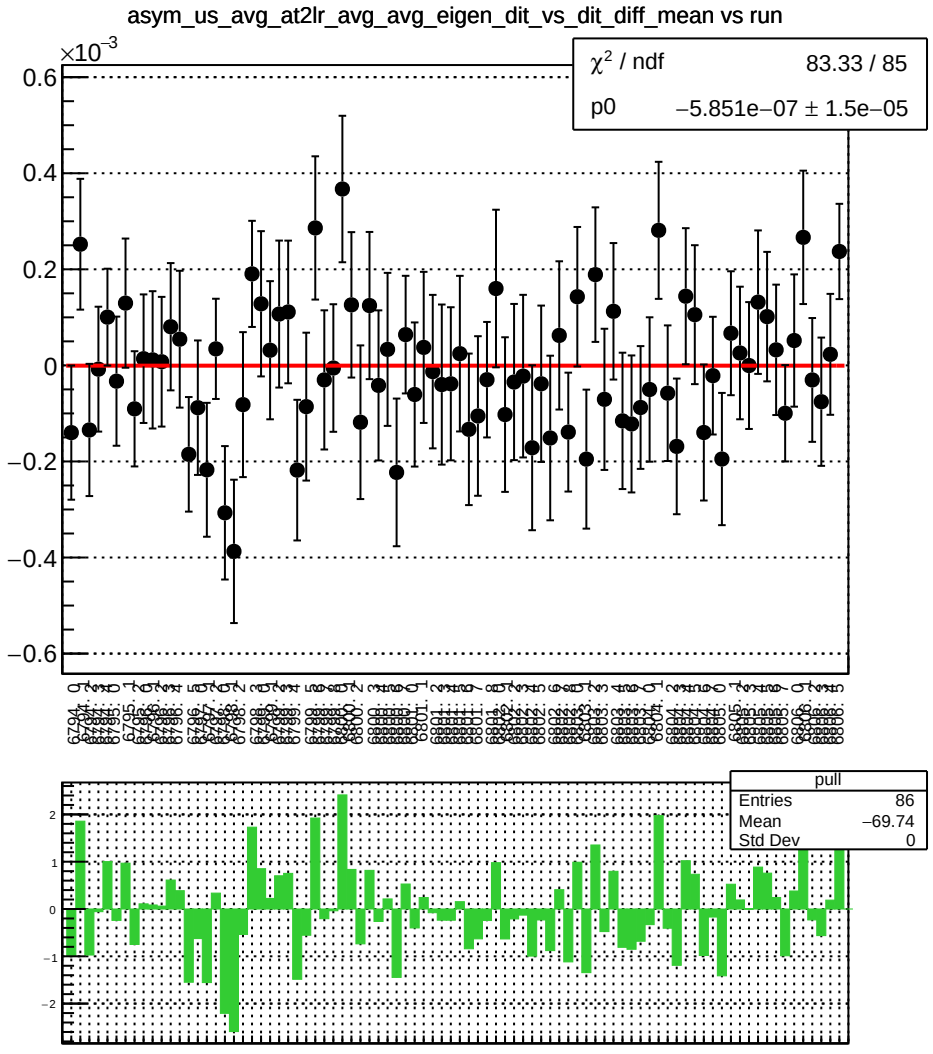

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.137e+06 / 85
p0 1.172e−10 ± 1.586e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

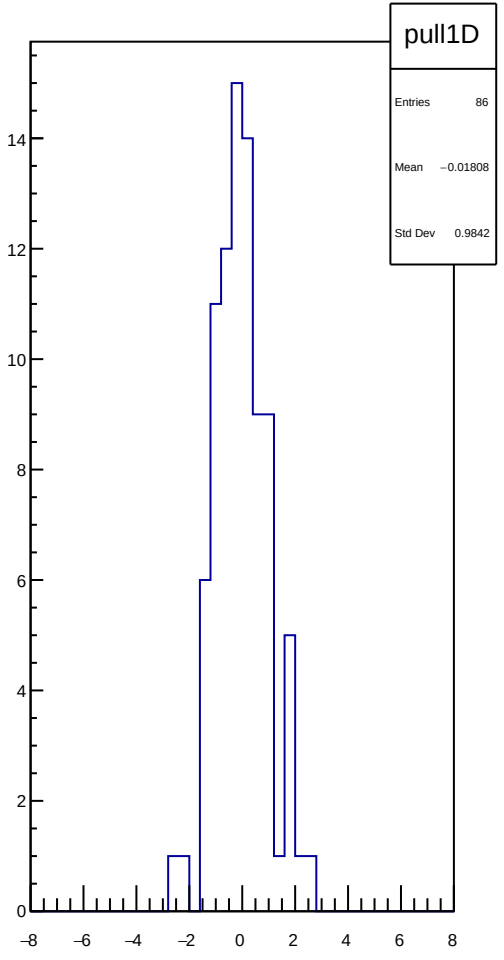

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 85
p0 0.8617 ± 0.6682
pull
Entries 86
Mean −30.65
Std Dev 0
pull1D
Entries 86
Mean −0.0192
Std Dev 1.002

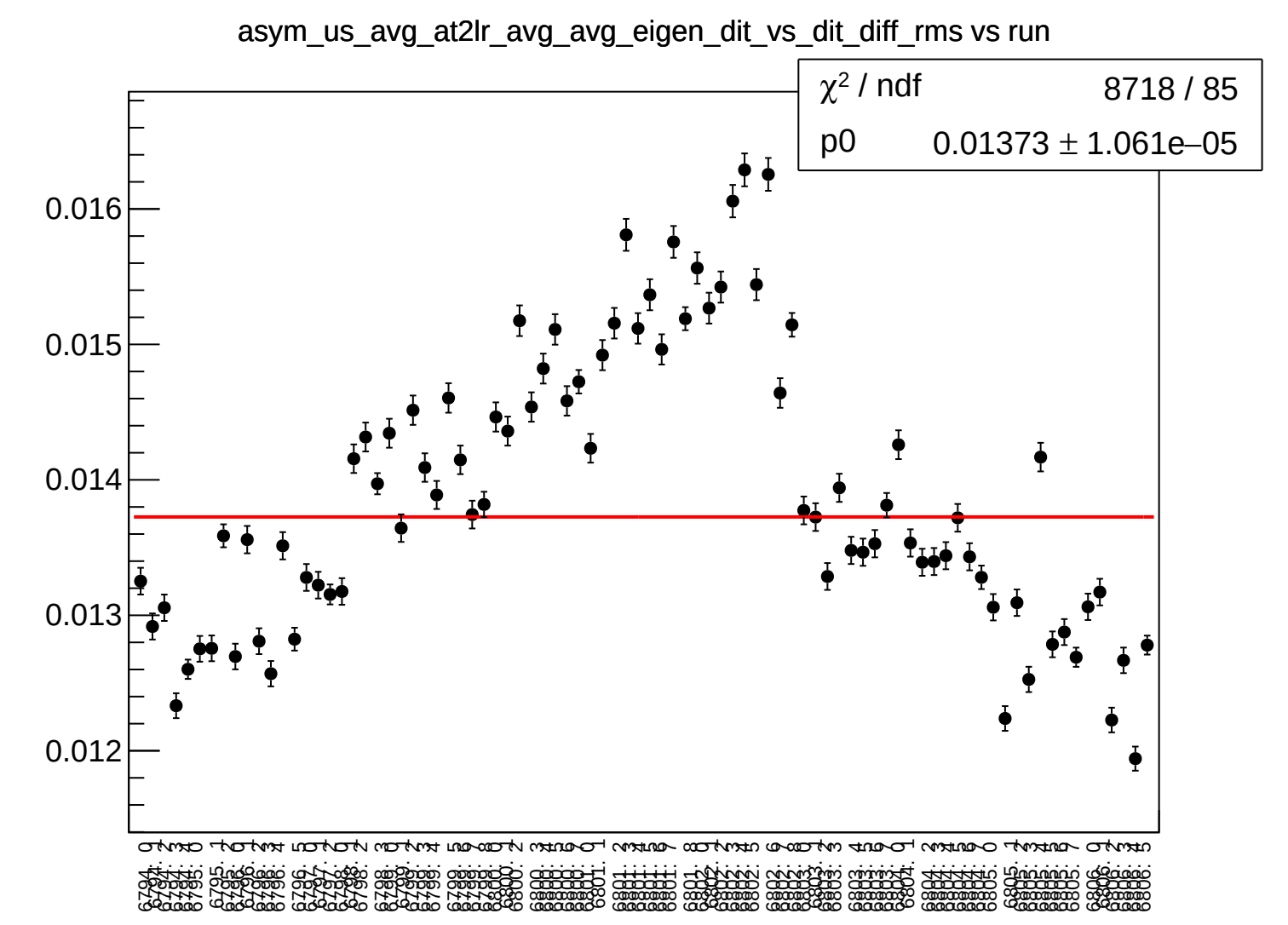

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 85
p0 610.3 ± 0.4725
1000
900
800
700
600
500

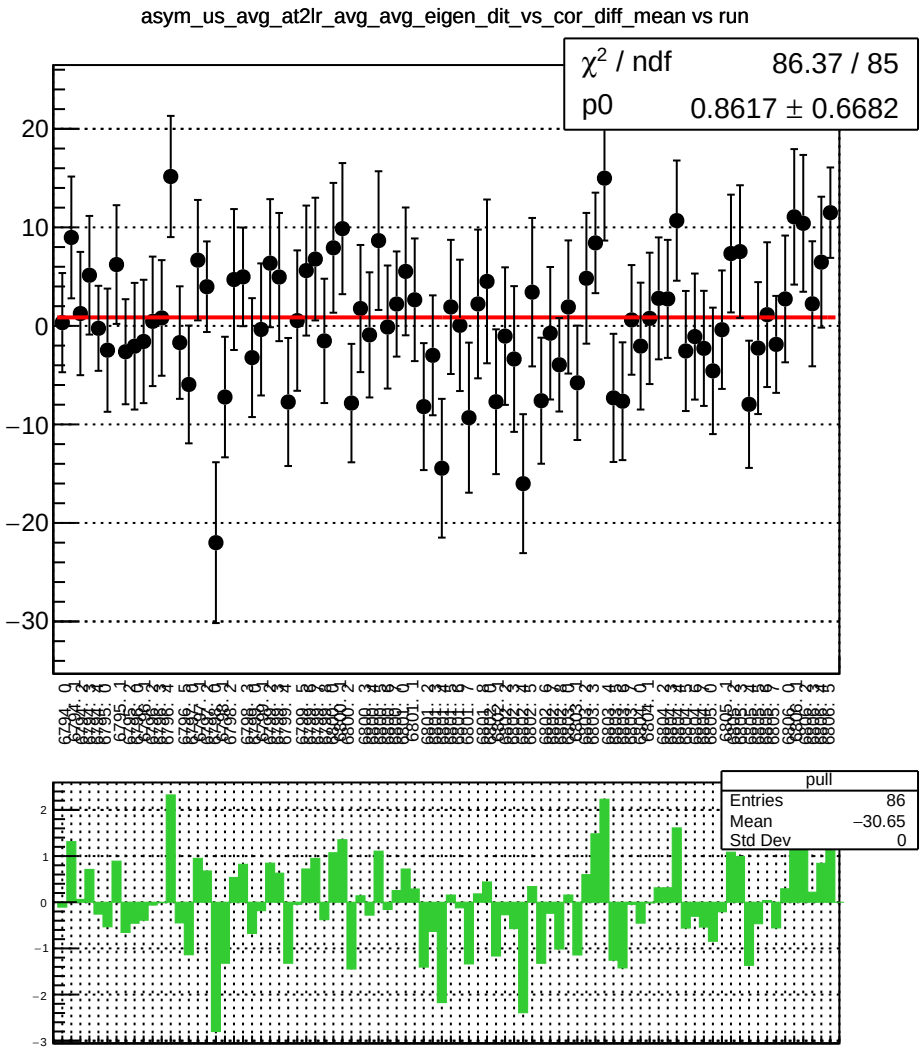

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 85
p0 0.8617 ± 0.6682
pull
Entries 86
Mean −30.65
Std Dev 0
pull1D
Entries 86
Mean −0.0192
Std Dev 1.002

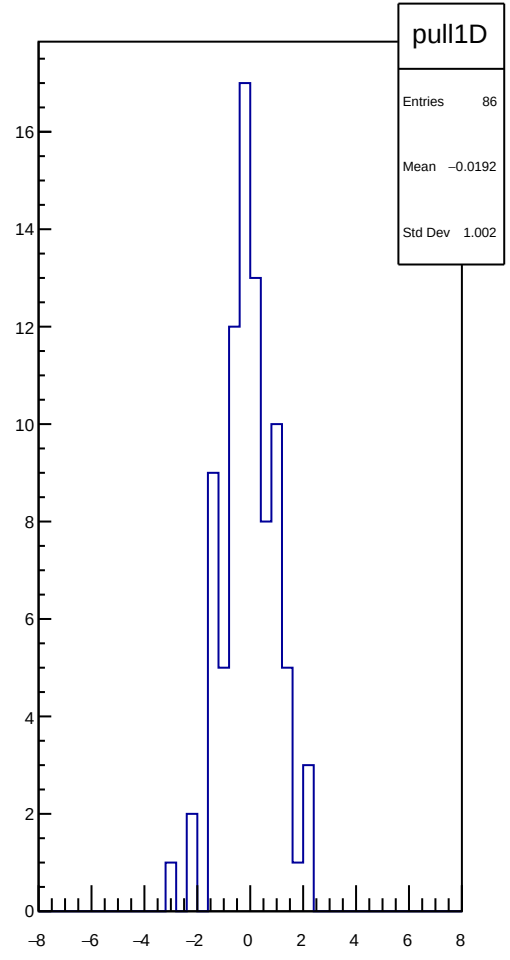

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 85
p0 610.3 ± 0.4725
1000
900
800
700
600
500

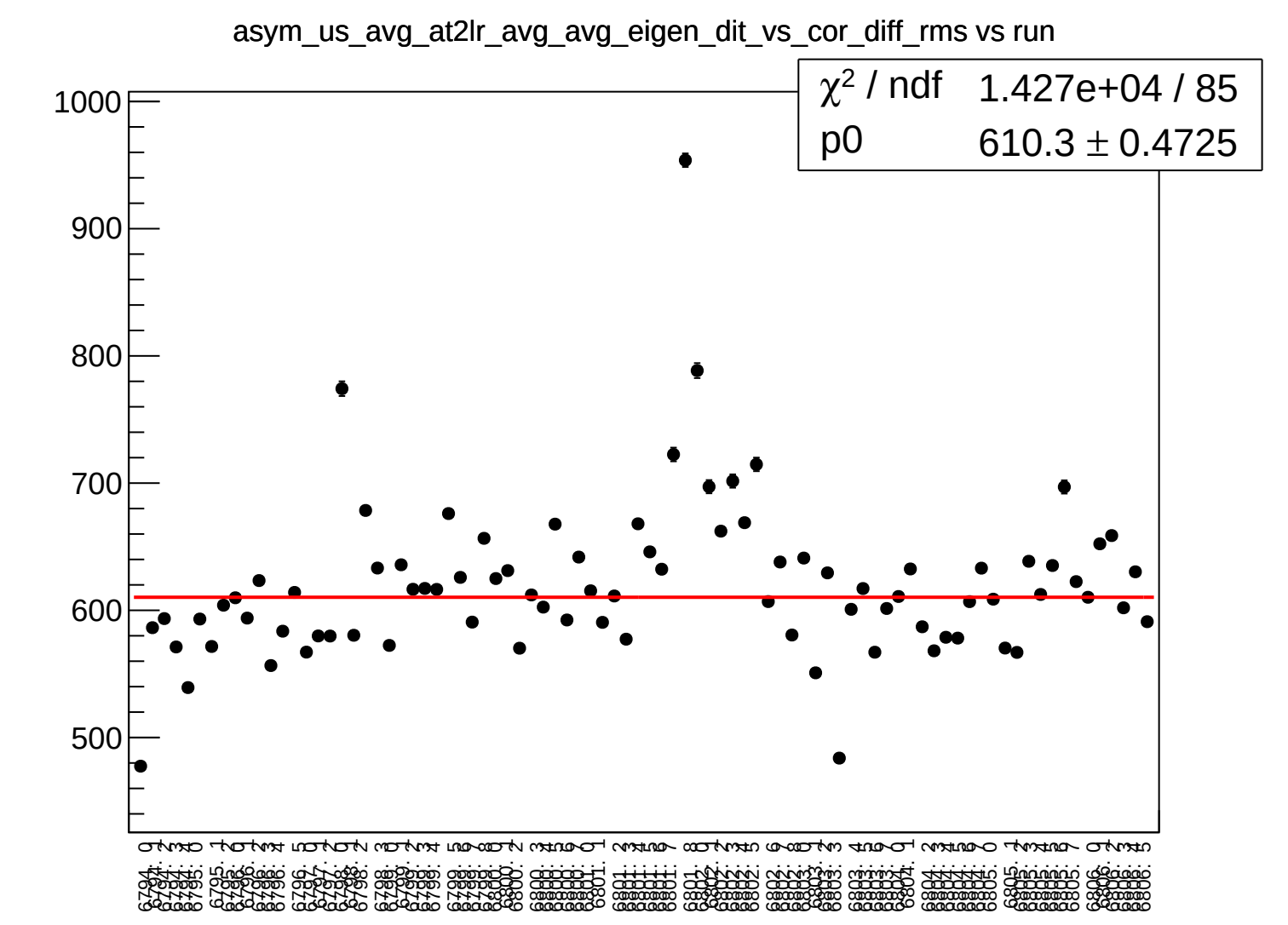

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.33 / 85
p0 −5.851e−07 ± 1.5e−05
pull
Entries 86
Mean −69.74
Std Dev 0

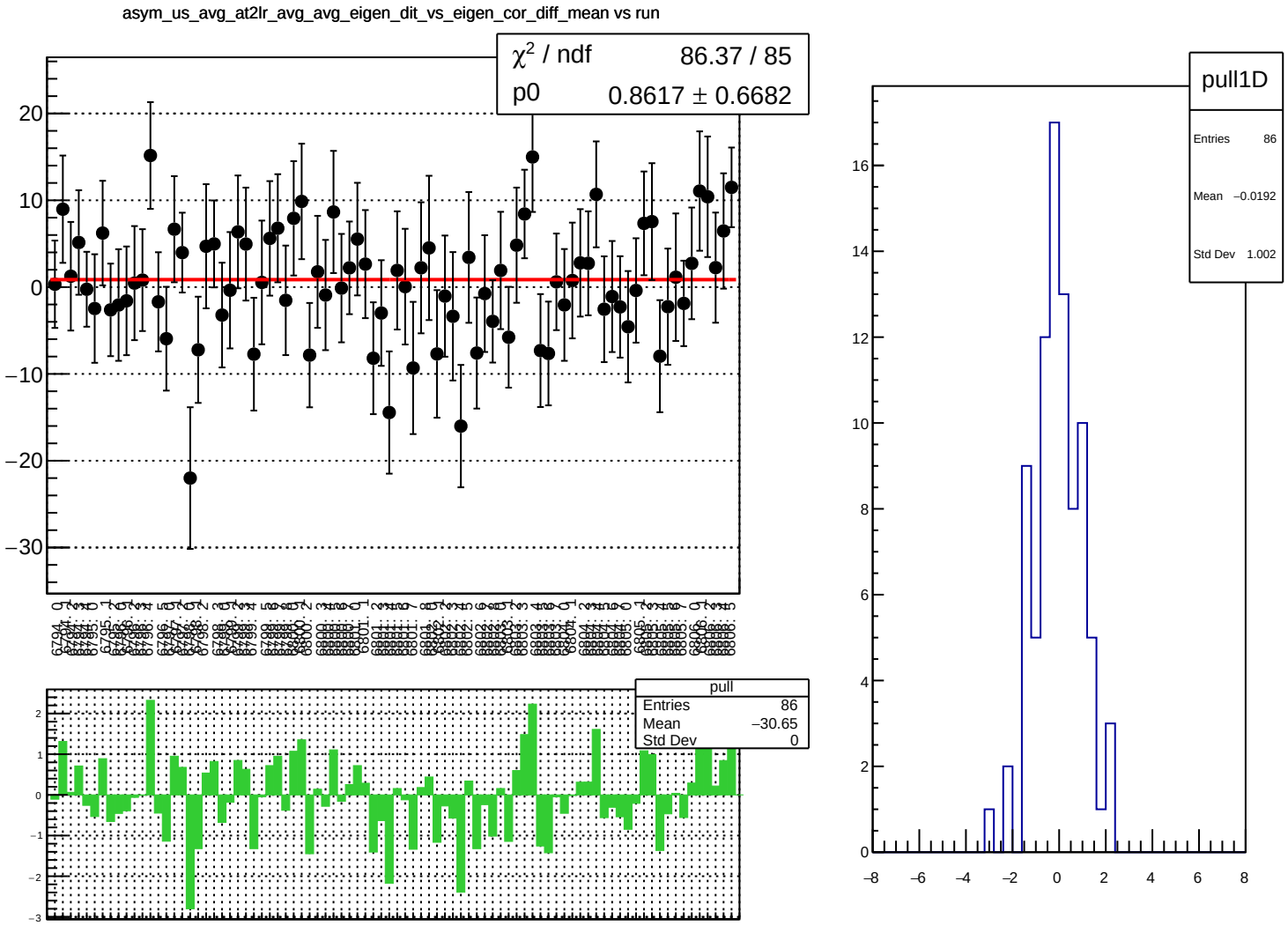

pull1D
Entries 86
Mean −0.01808
Std Dev 0.9842

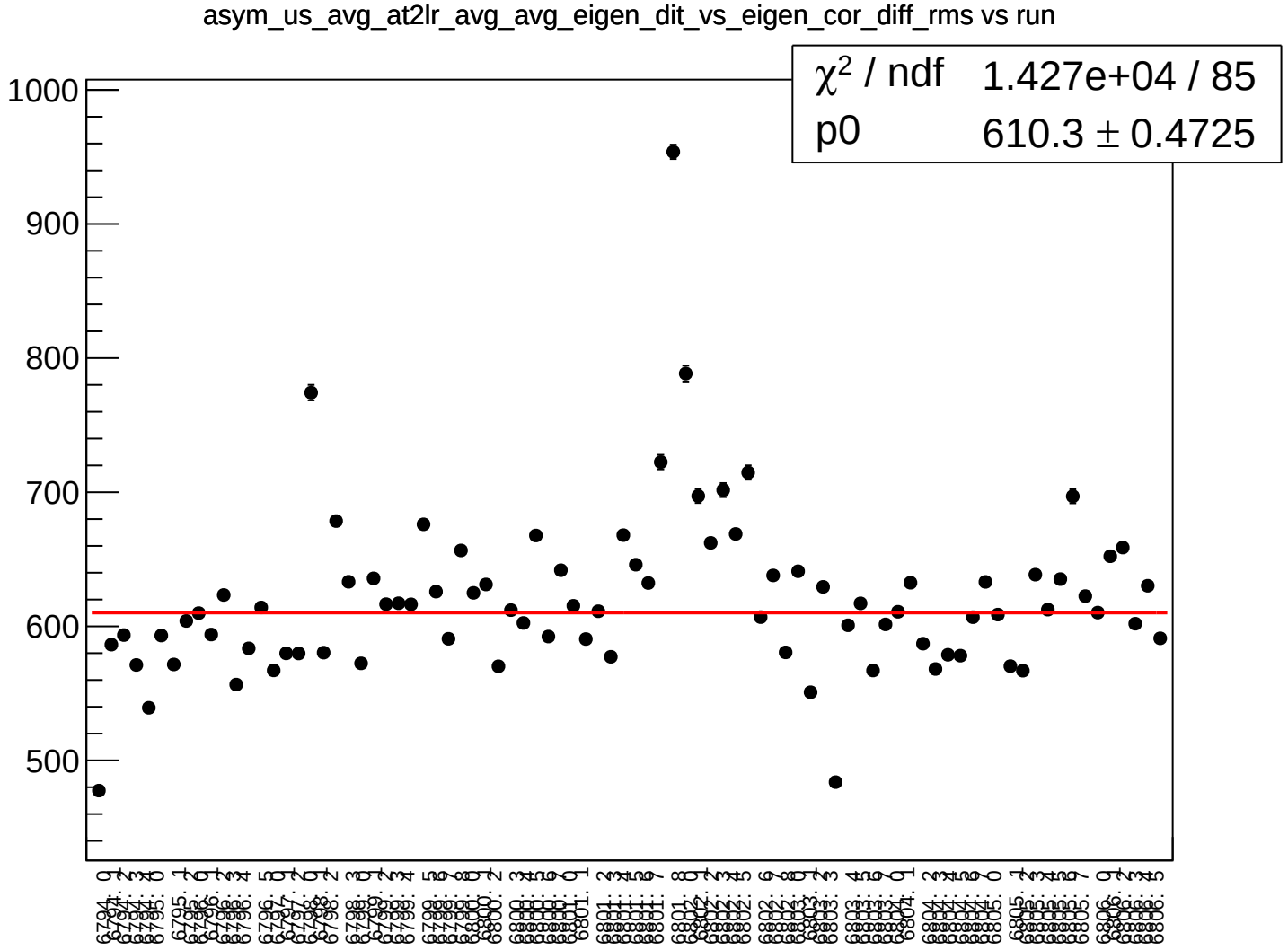

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8718 / 85
p0 0.01373 ± 1.061e–05
0.016
0.015
0.014
0.013
0.012

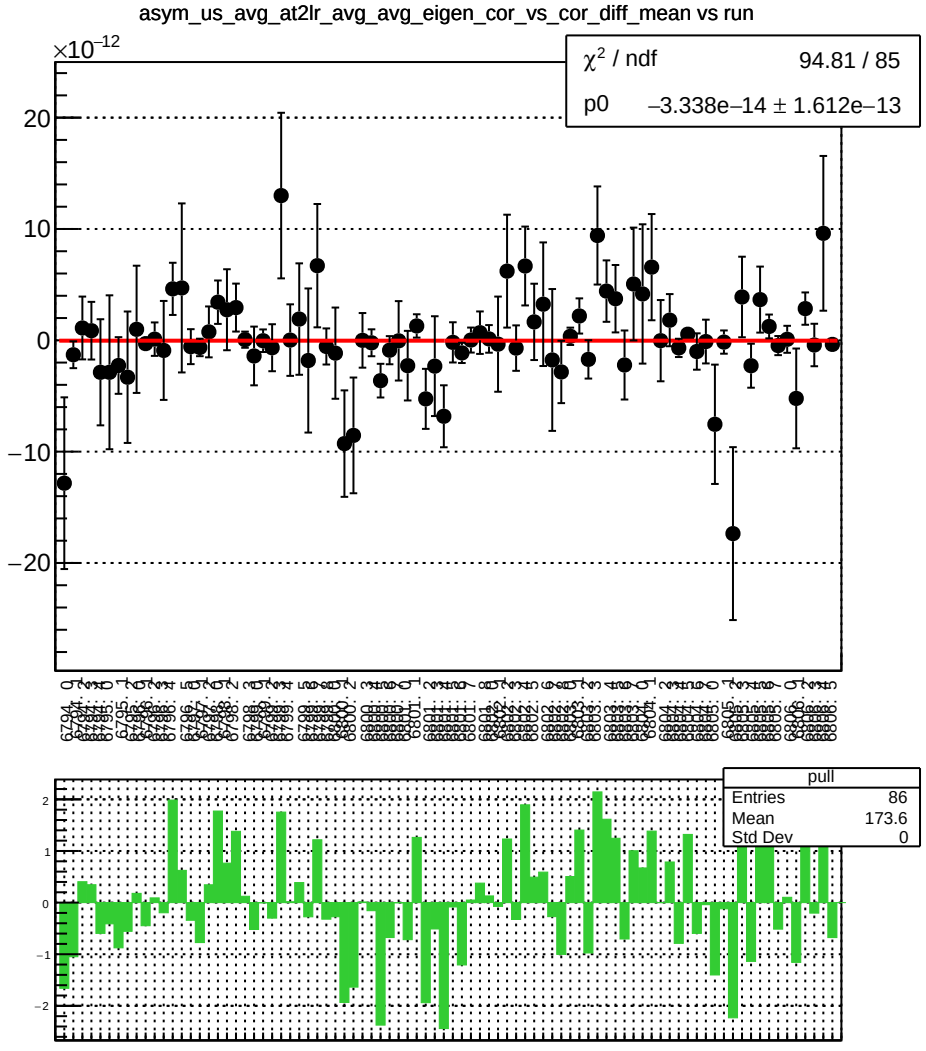

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.37 / 85
p0 0.8617 ± 0.6682
pull
Entries 86
Mean −30.65
Std Dev 0

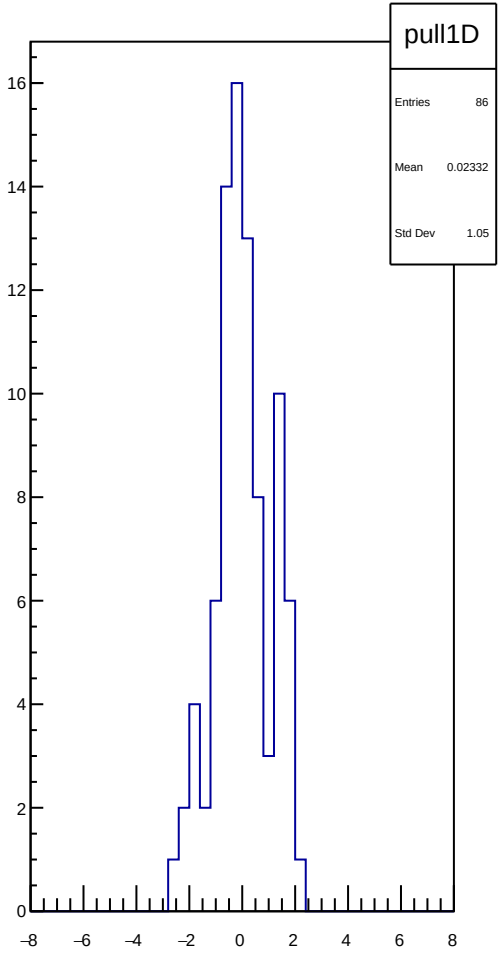

pull1D
Entries 86
Mean −0.0192
Std Dev 1.002

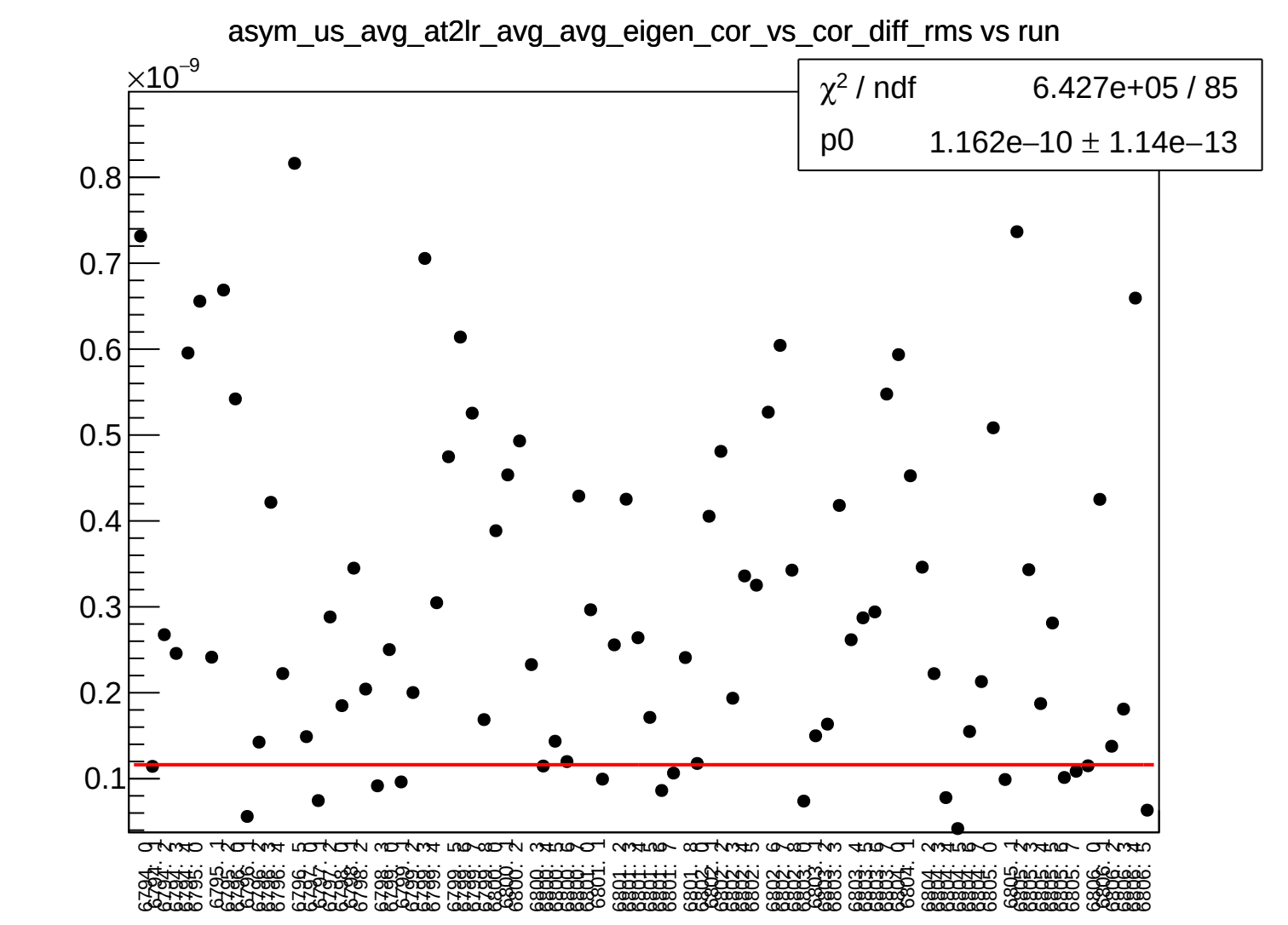

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 85
p0 610.3 ± 0.4725
1000
900
800
700
600
500

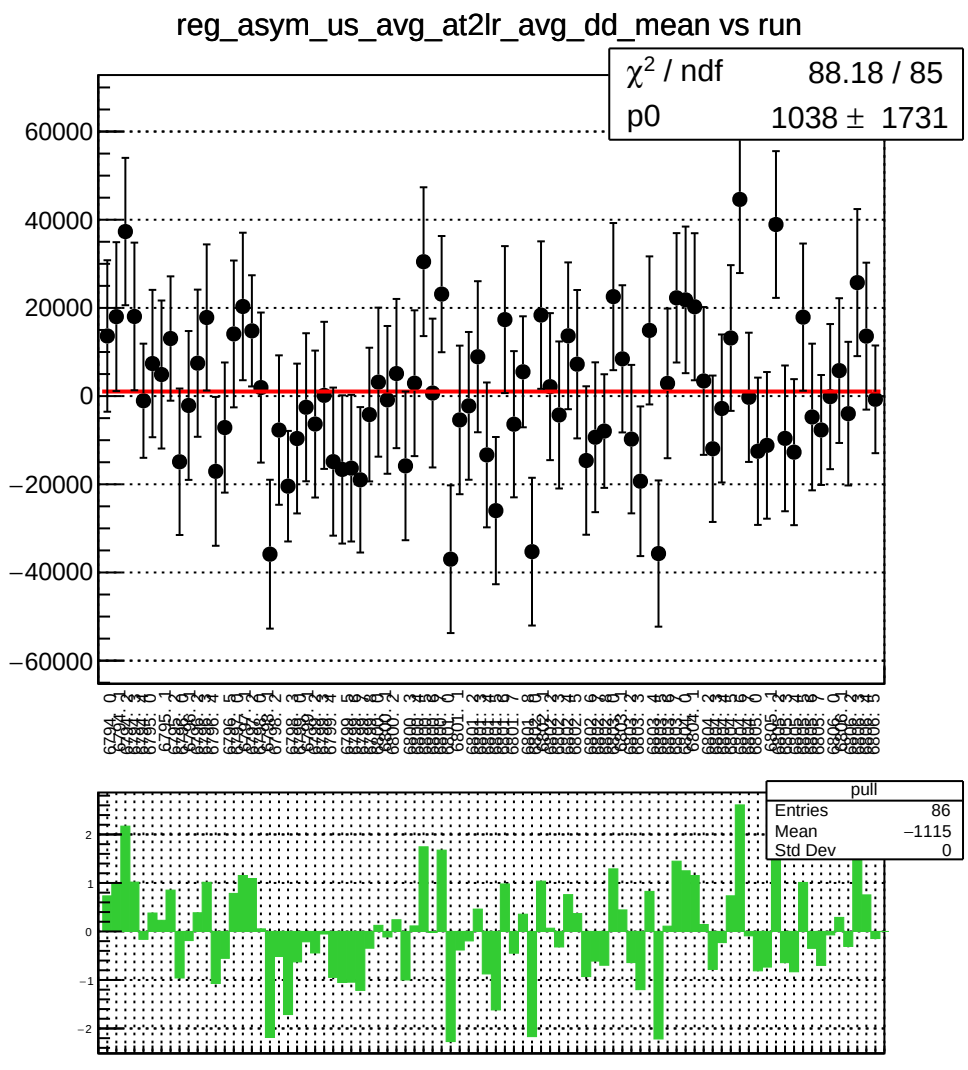

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.37 / 85
p0 0.8617 ± 0.6682
pull
Entries 86
Mean −30.65
Std Dev 0
pull1D
Entries 86
Mean −0.0192
Std Dev 1.002

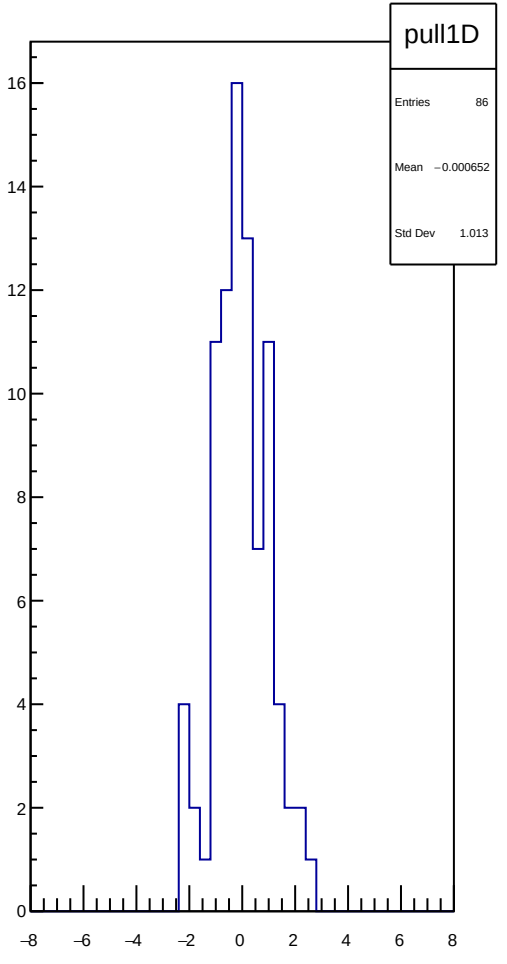

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.427e+04 / 85
p0 610.3 ± 0.4725
1000
900
800
700
600
500

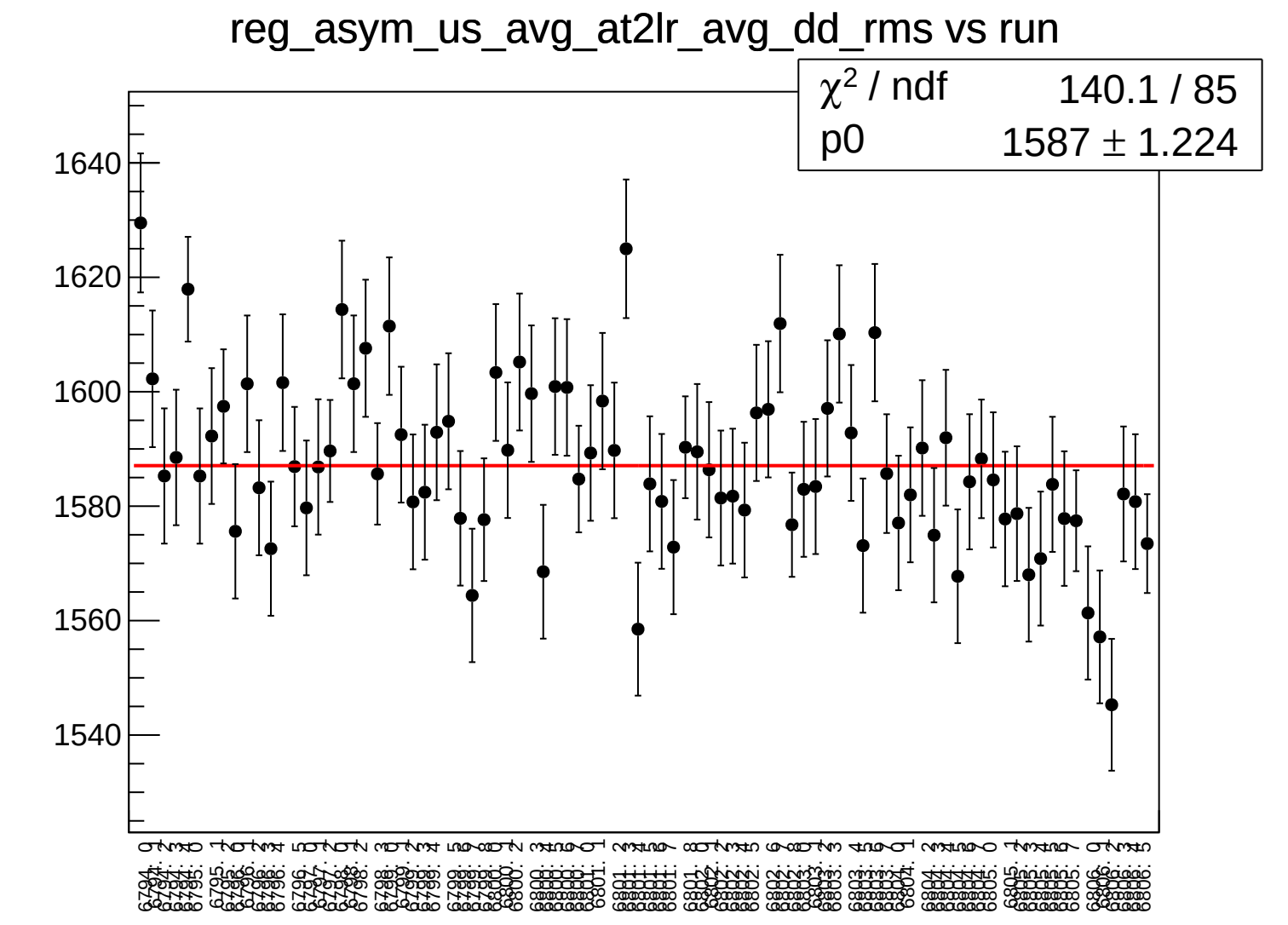

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.81 / 85
p0 −3.338e−14 ± 1.612e−13
pull
Entries 86
Mean 173.6
Std Dev 0

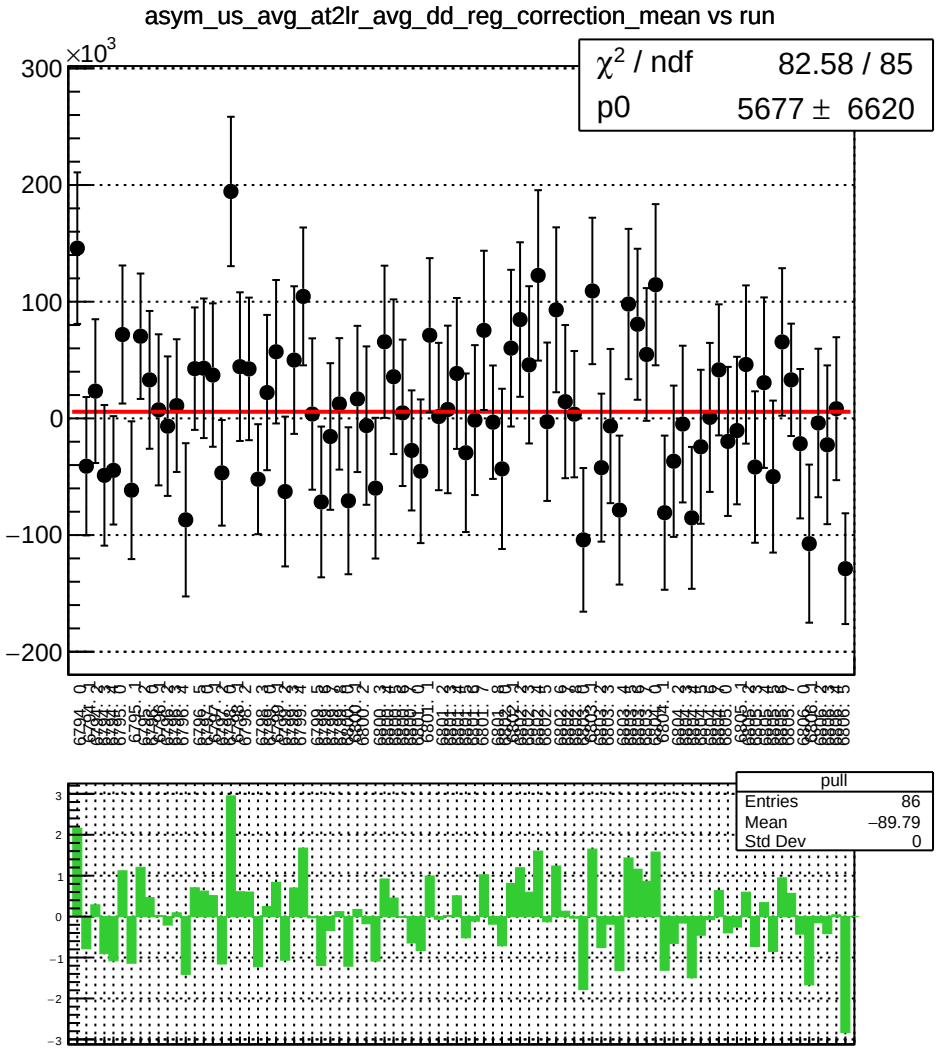

pull1D
Entries 86
Mean 0.02332
Std Dev 1.05

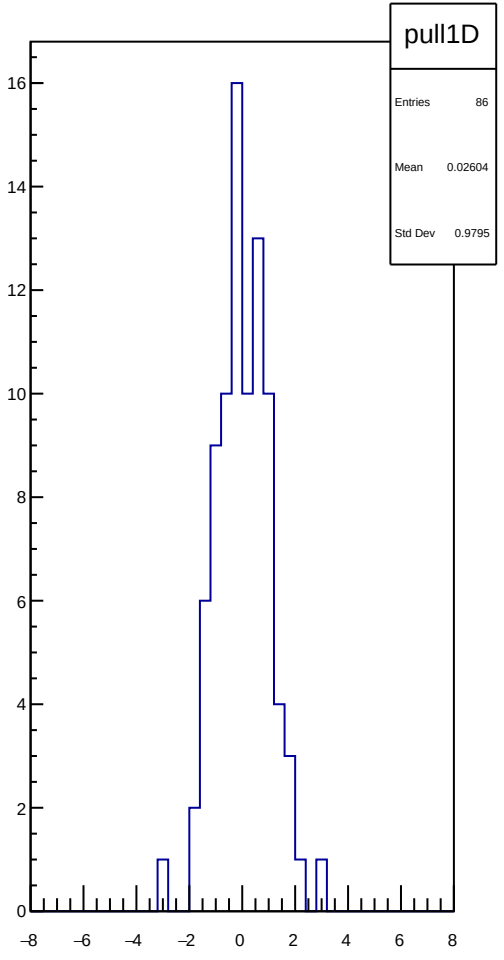

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.427e+05 / 85
p0 1.162e−10 ± 1.14e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

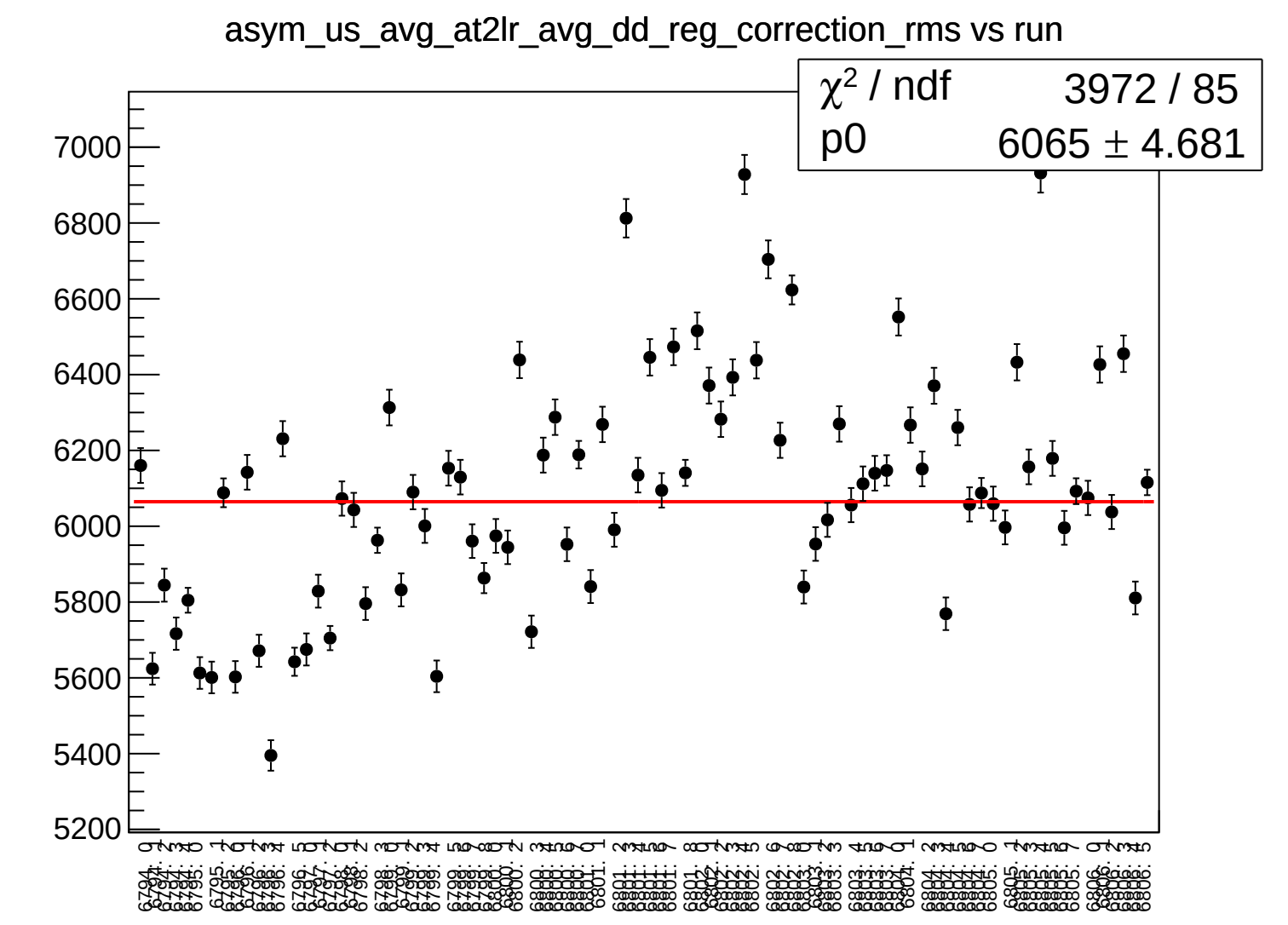

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.18 / 85
p0 1038 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1115
Std Dev 0
2
1
0
−1
−2

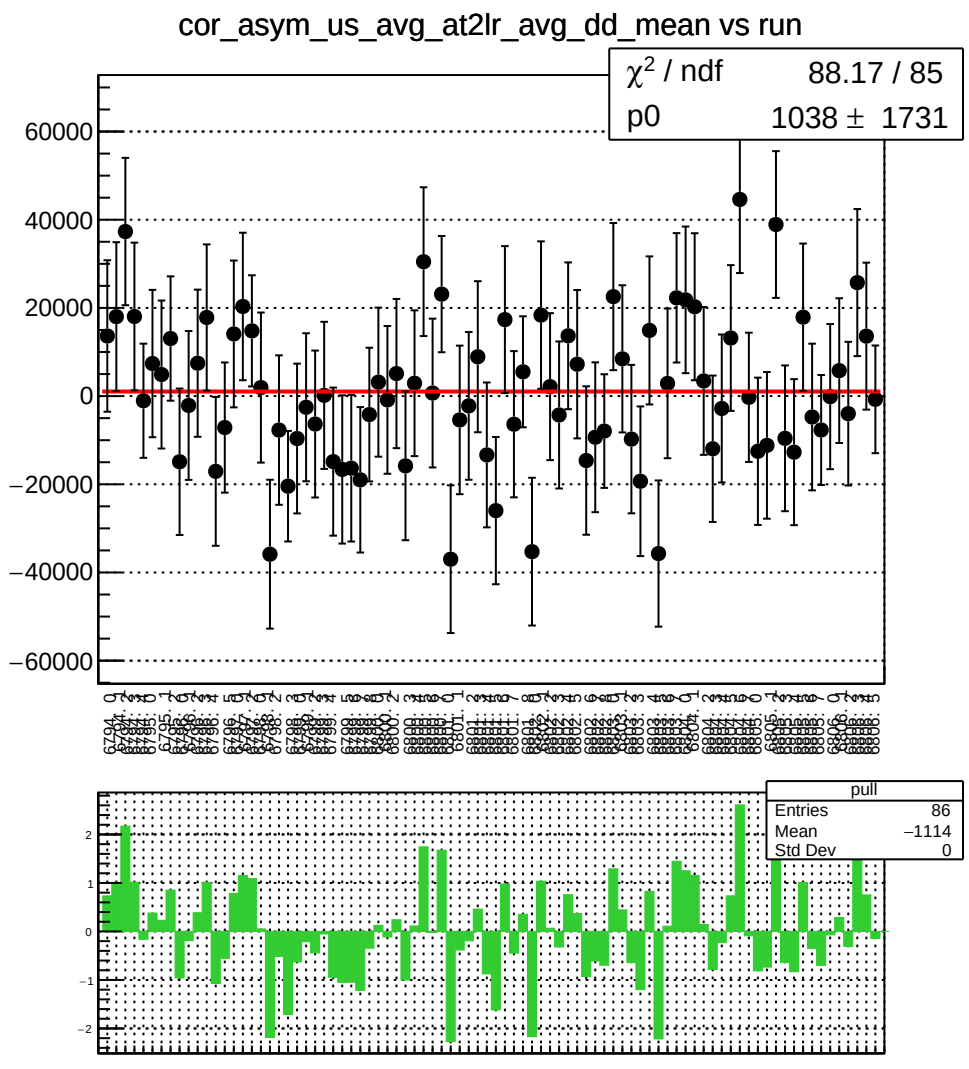

pull1D
Entries 86
Mean −0.000652
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

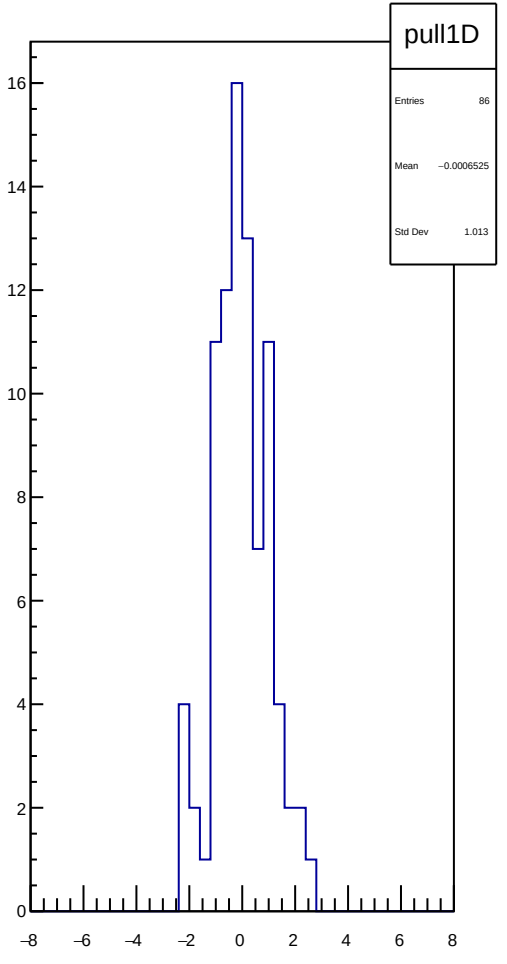

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 140.1 / 85
p0 1587 ± 1.224
1640
1620
1600
1580
1560
1540

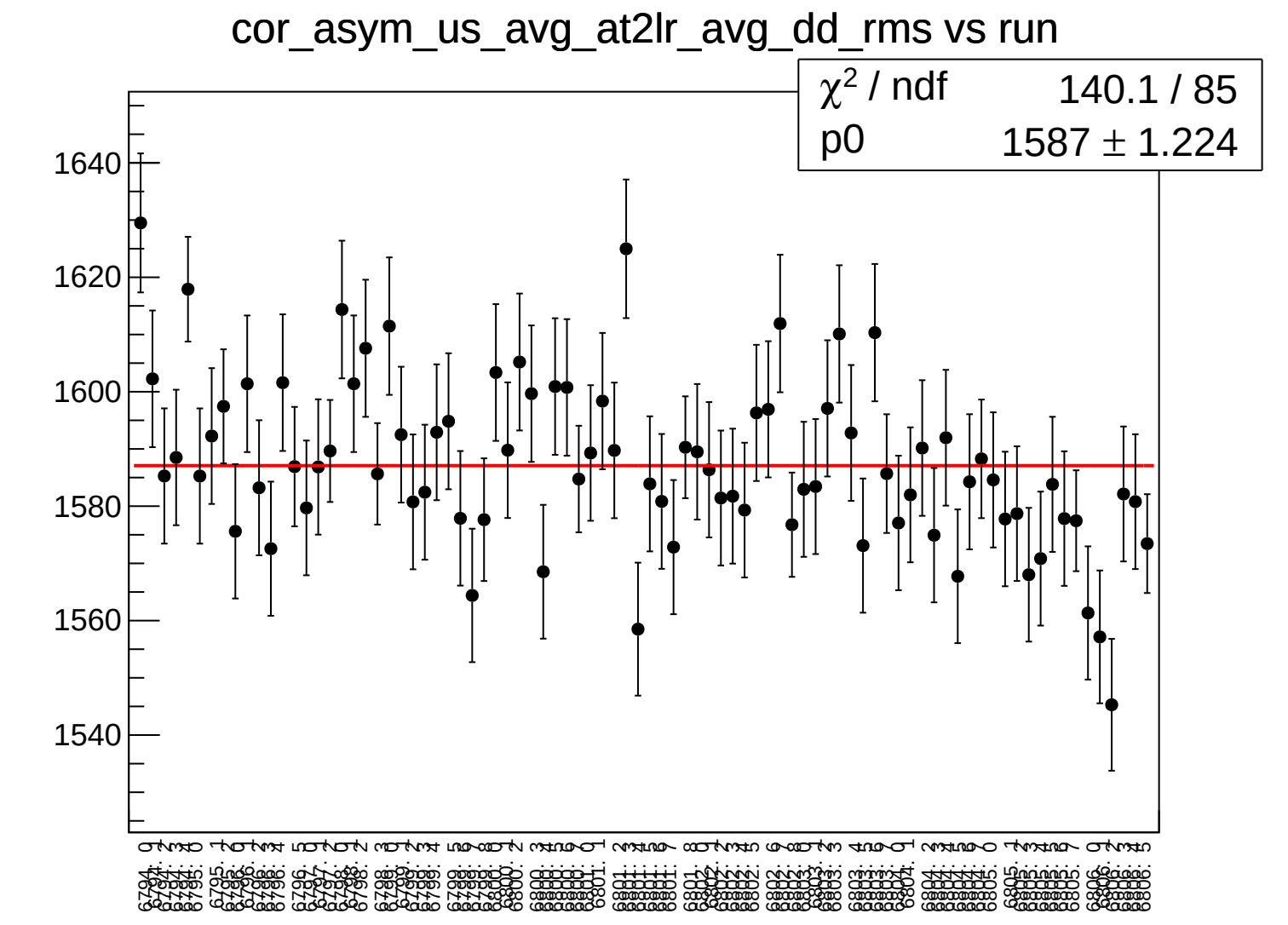

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.58 / 85
p0 5677 ± 6620
pull
Entries 86
Mean −89.79
Std Dev 0

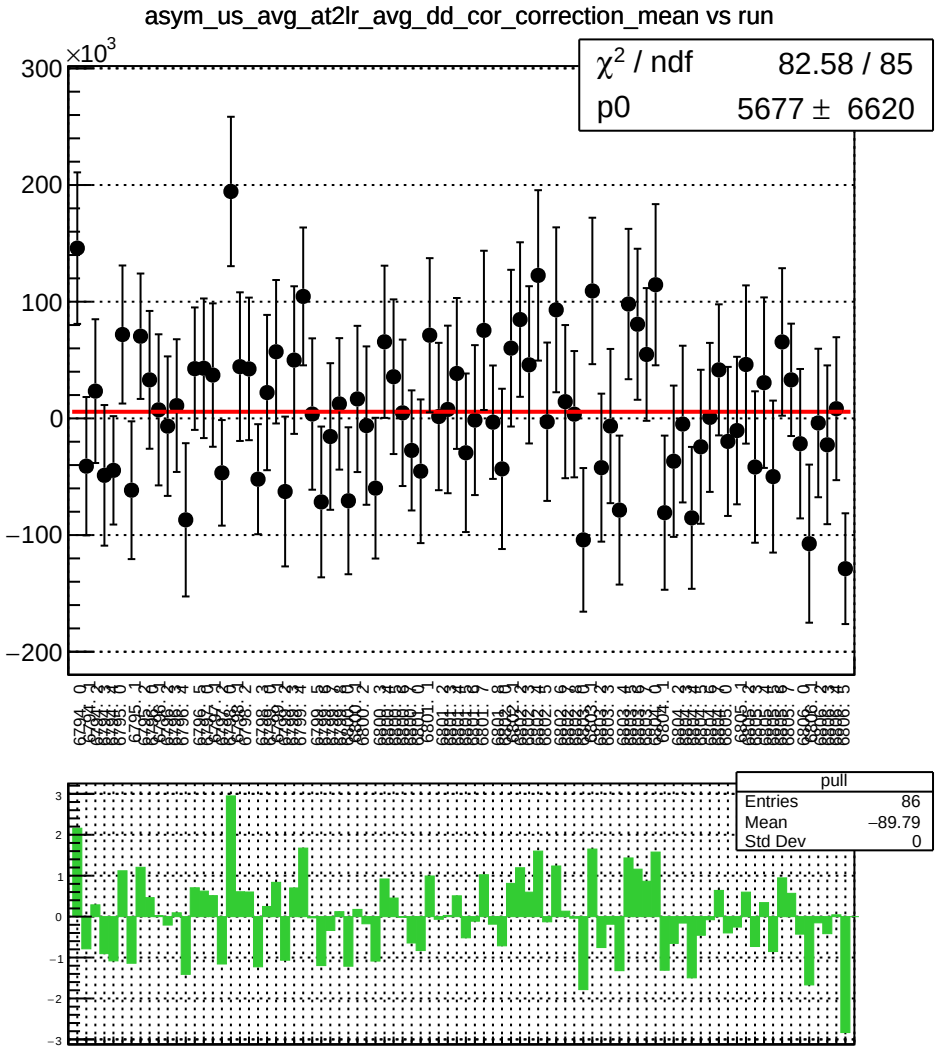

pull1D
Entries 86
Mean 0.02604
Std Dev 0.9795

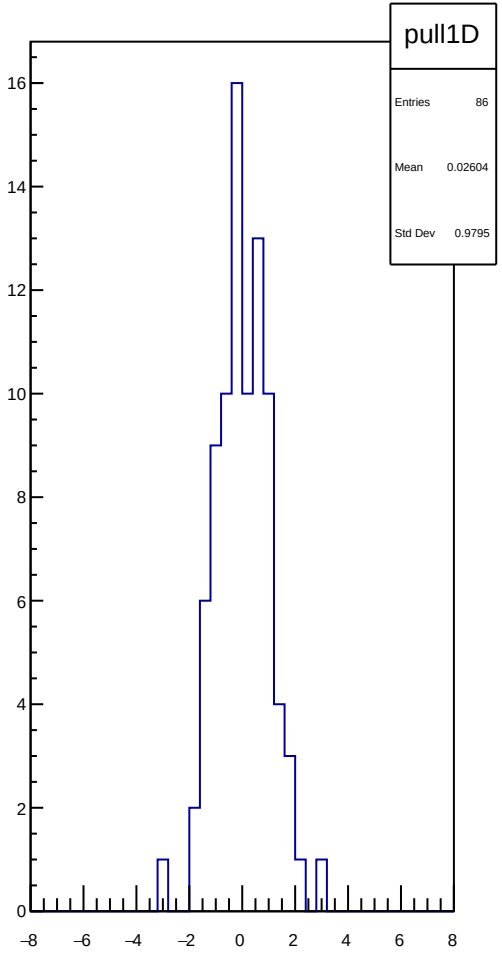

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 3972 / 85
p0 6065 ± 4.681
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

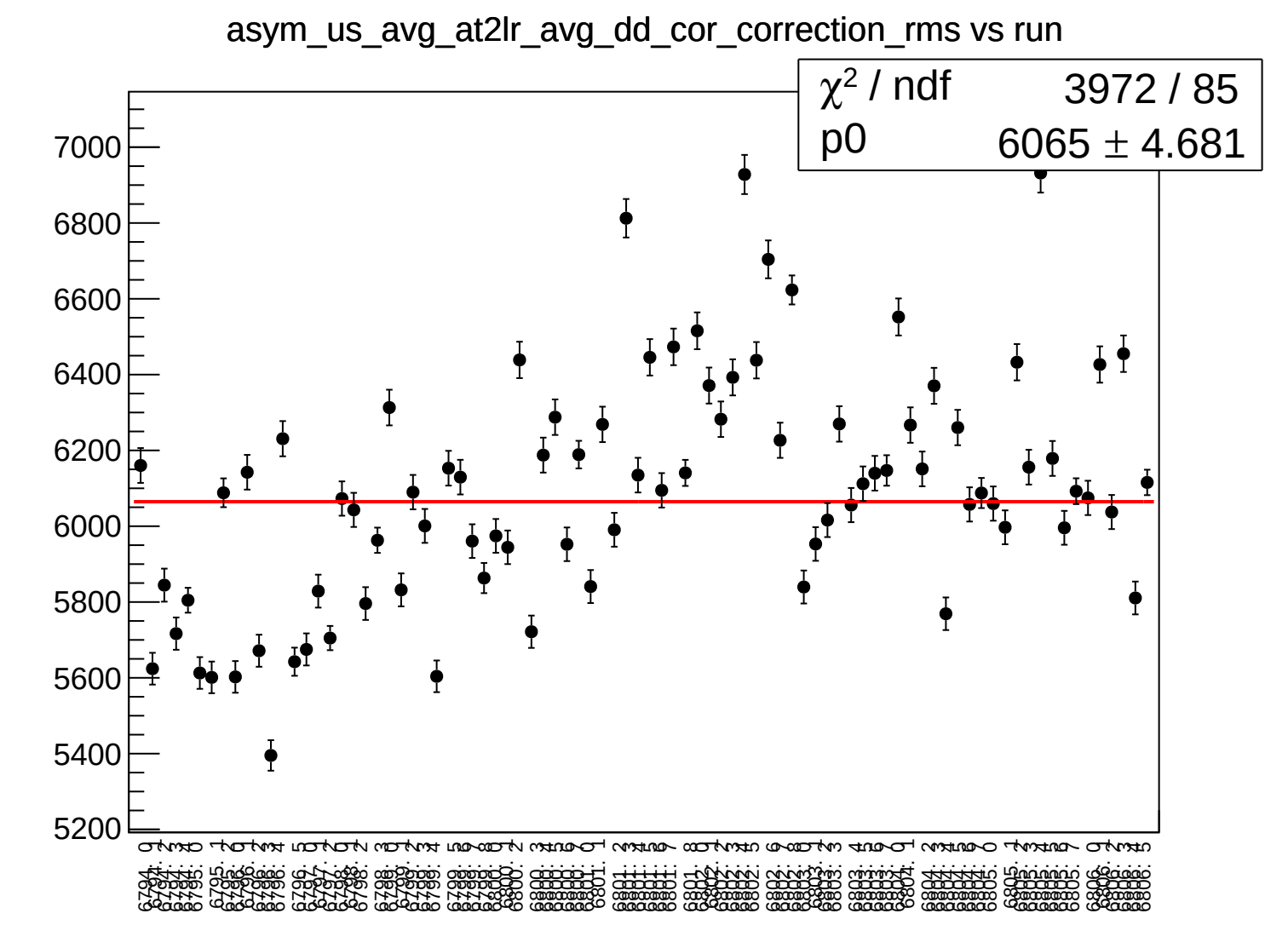

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.17 / 85
p0 1038 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1114
Std Dev 0
2
1
0
−1
−2

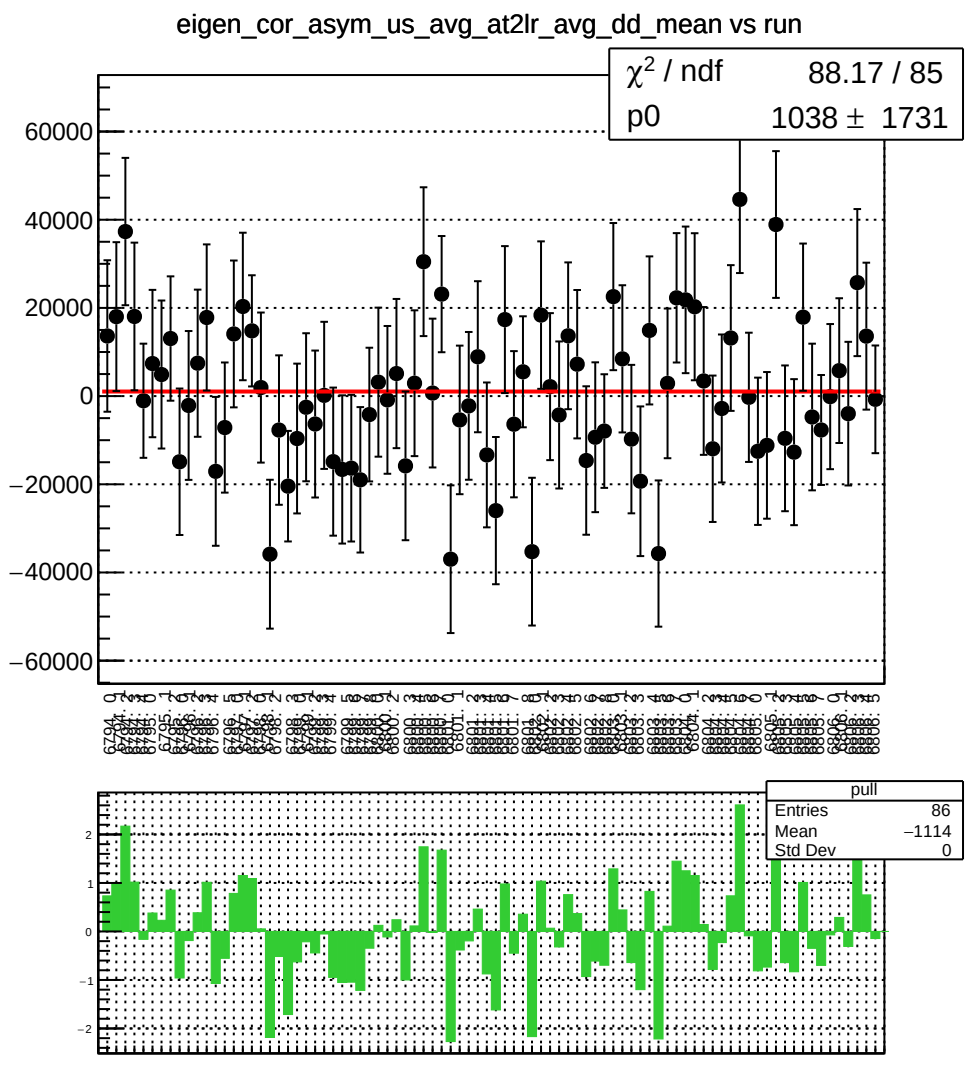

pull1D
Entries 86
Mean −0.0006525
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

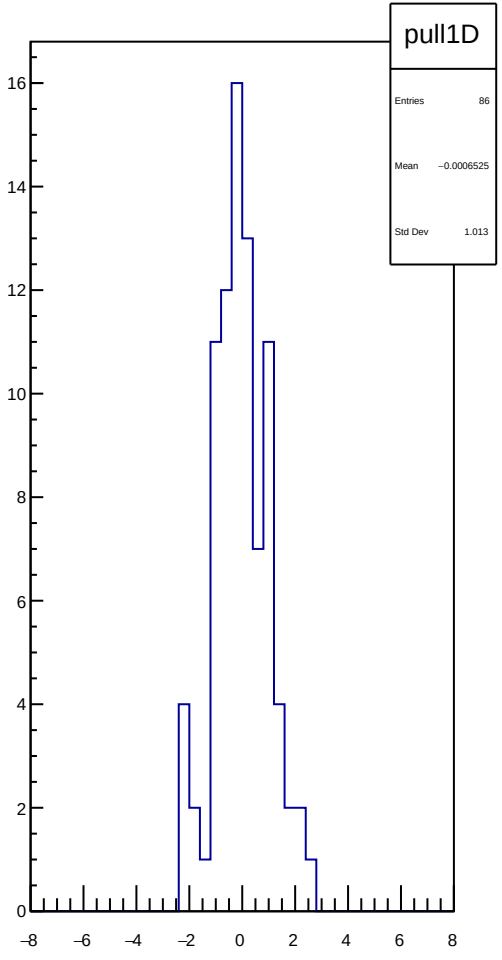

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 140.1 / 85
p0 1587 ± 1.224
1640
1620
1600
1580
1560
1540

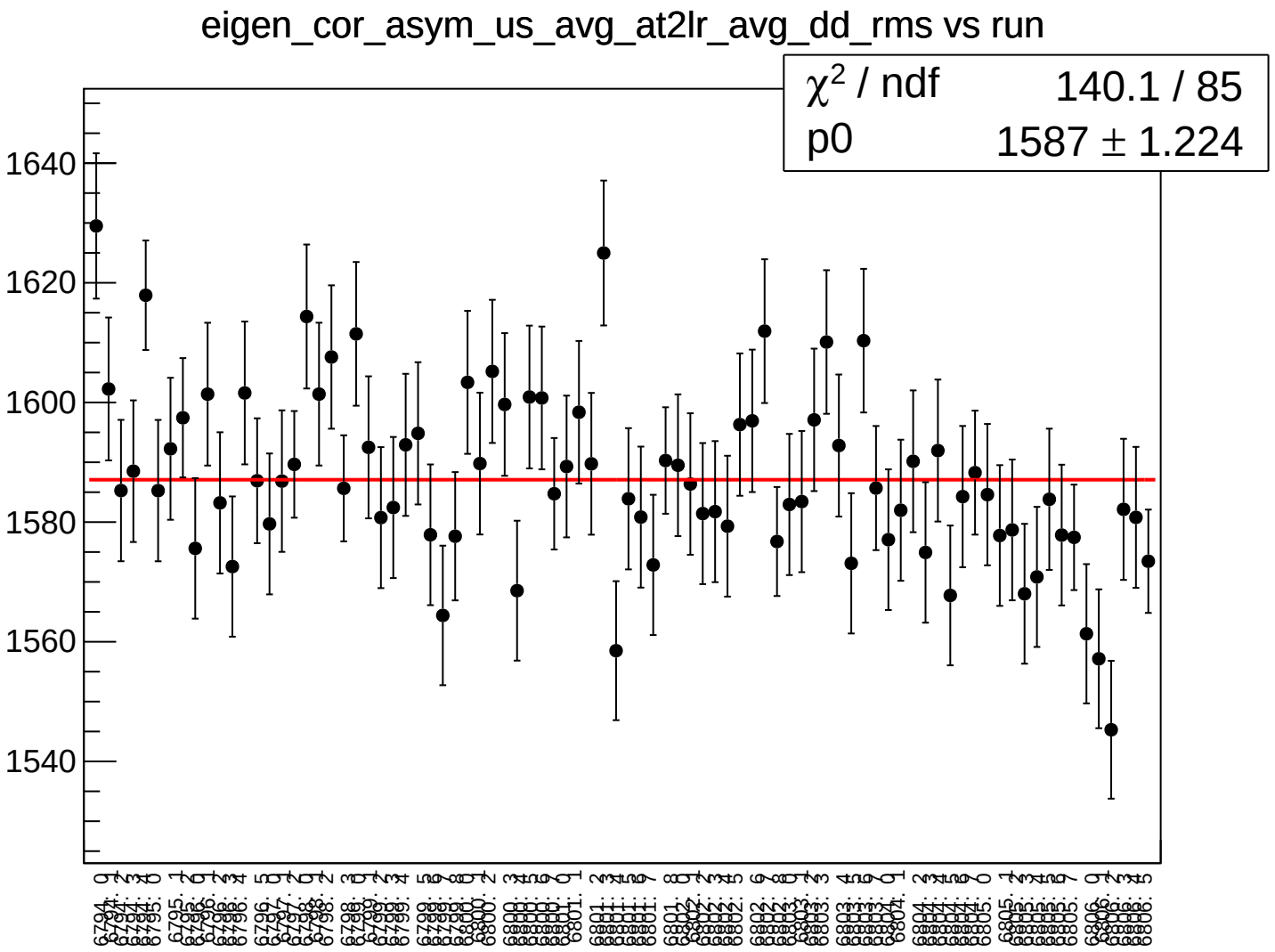

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.58 / 85
p0 5677 ± 6620
pull
Entries 86
Mean −89.79
Std Dev 0

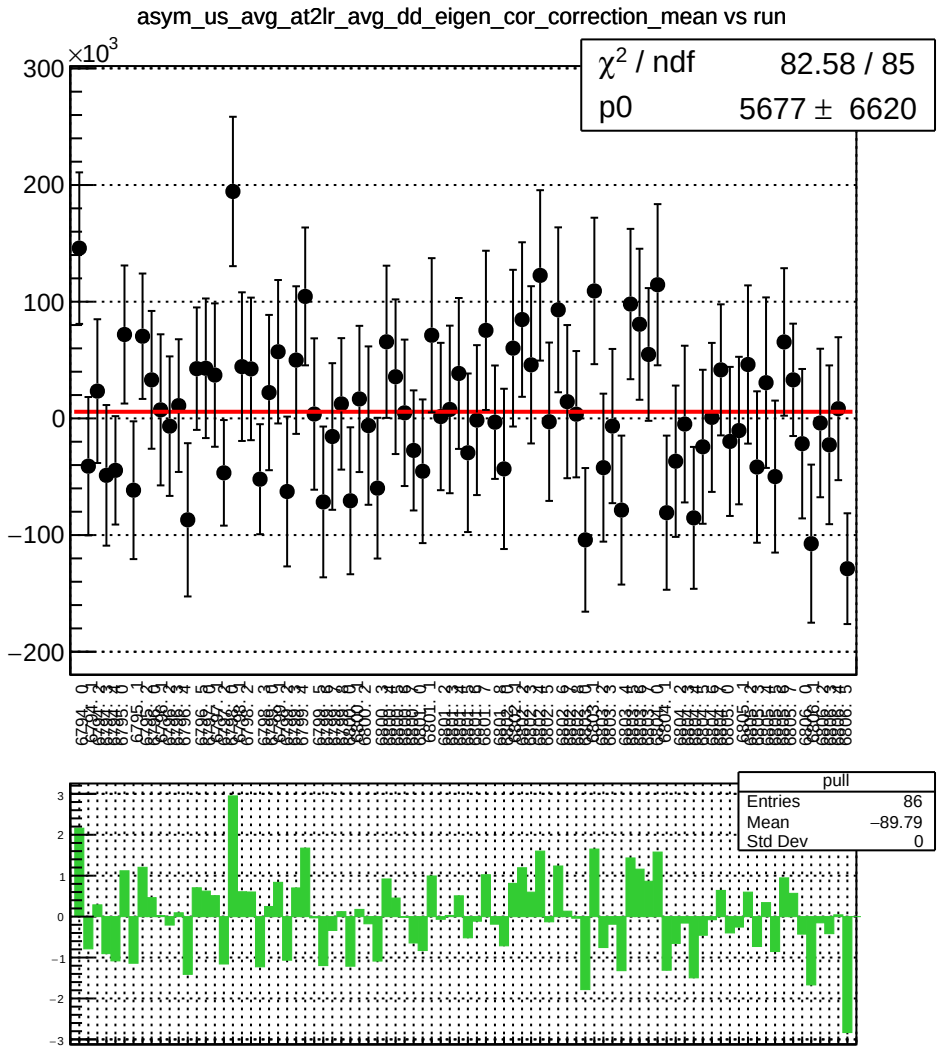

pull1D
Entries 86
Mean 0.02604
Std Dev 0.9795

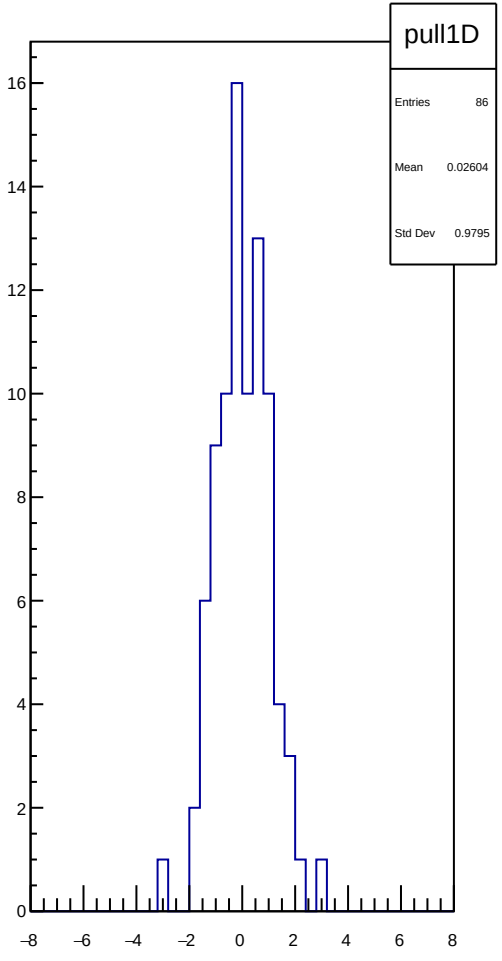

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 3972 / 85
p0 6065 ± 4.681
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

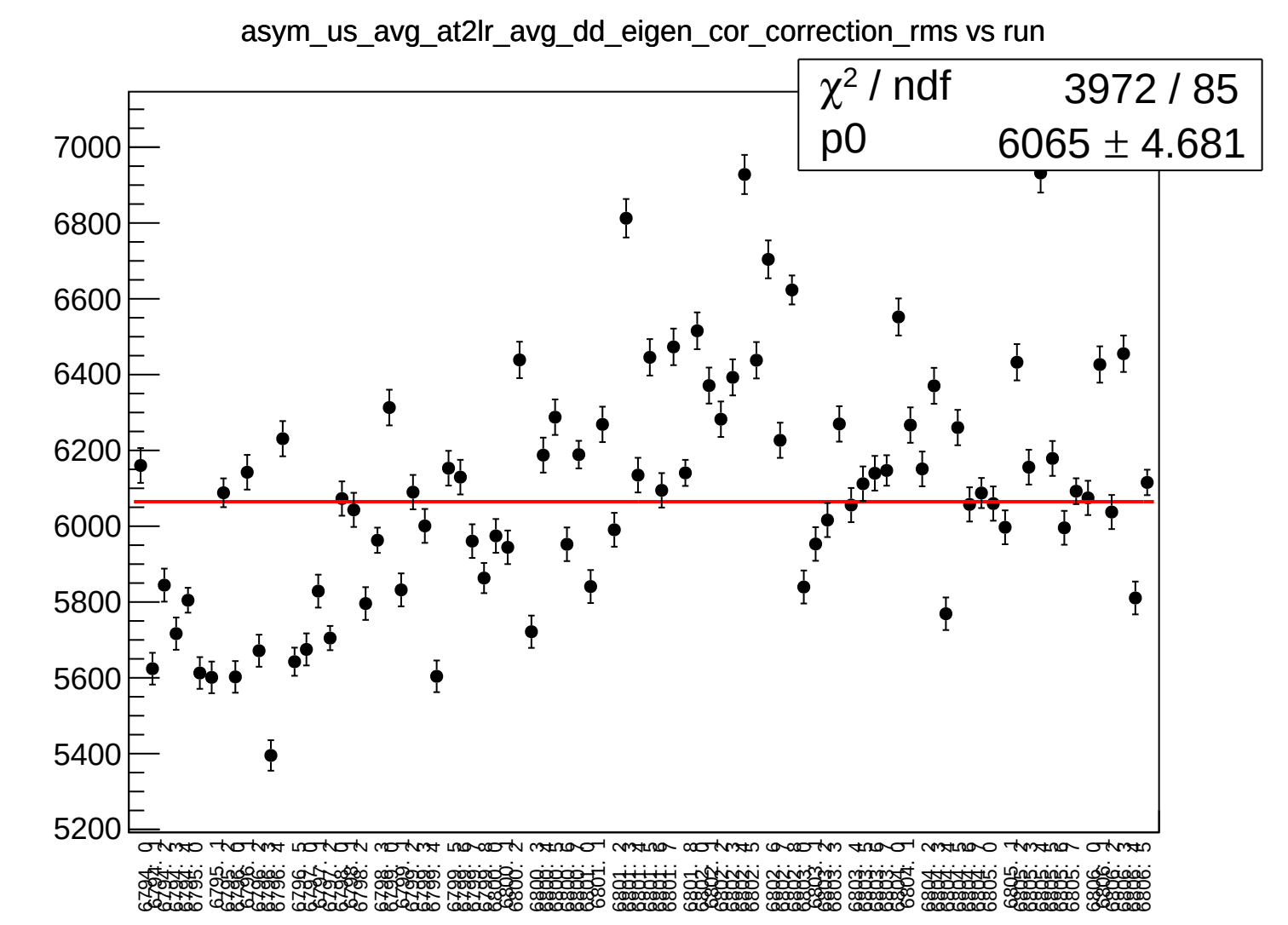

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 88.17 / 85
p0 1038 ± 1731
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −1114
Std Dev 0
2
1
0
−1
−2

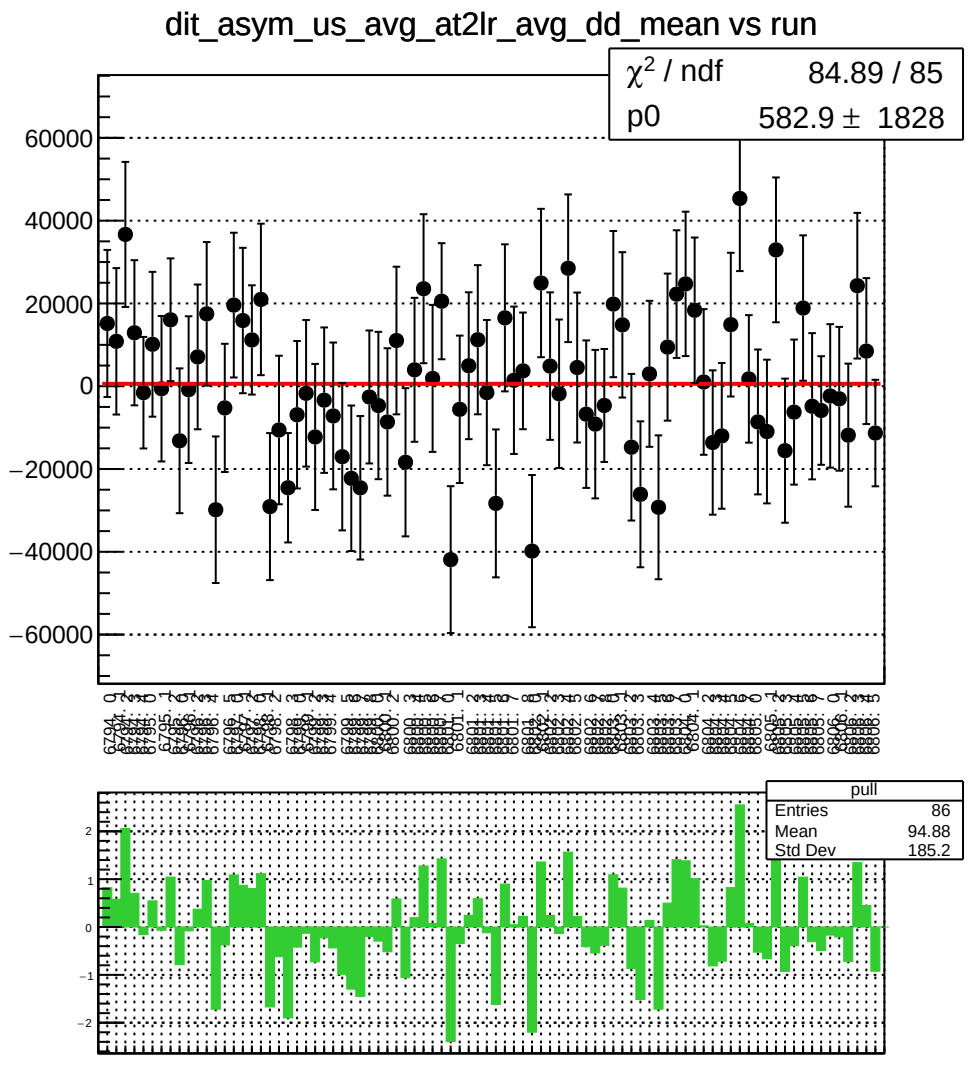

pull1D
Entries 86
Mean −0.0006525
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

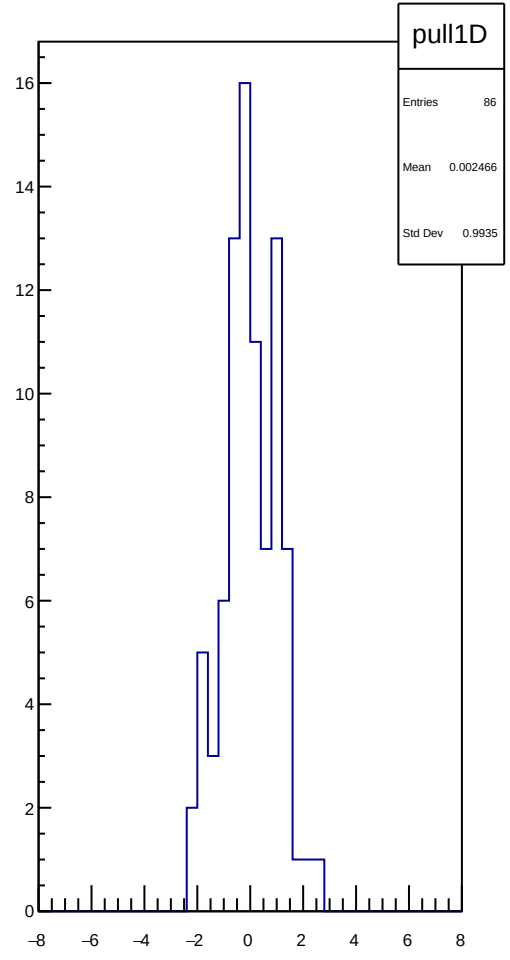

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 140.1 / 85
p0 1587 ± 1.224
1640
1620
1600
1580
1560
1540

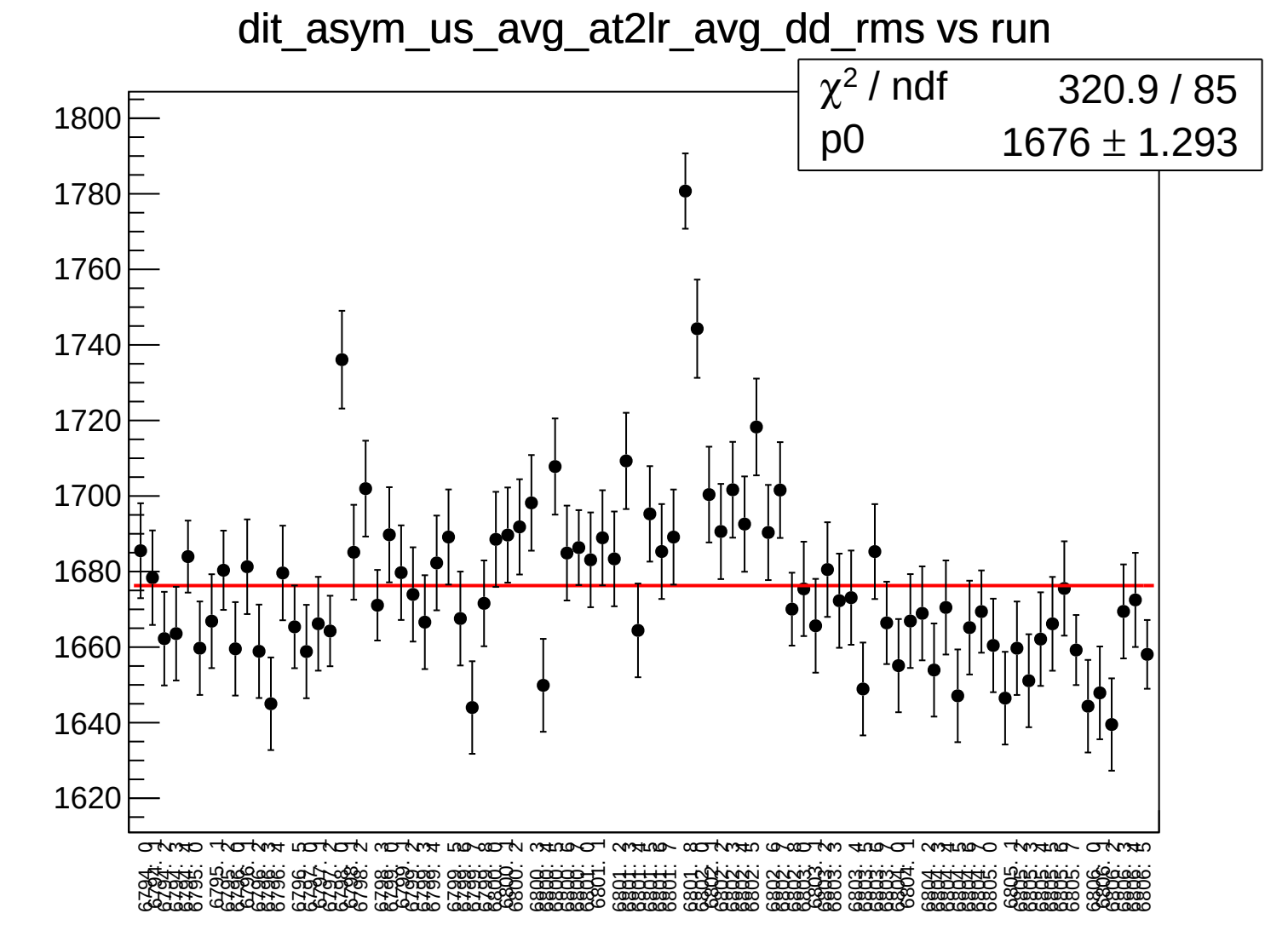

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.58 / 85
p0 5677 ± 6620
pull
Entries 86
Mean −89.79
Std Dev 0

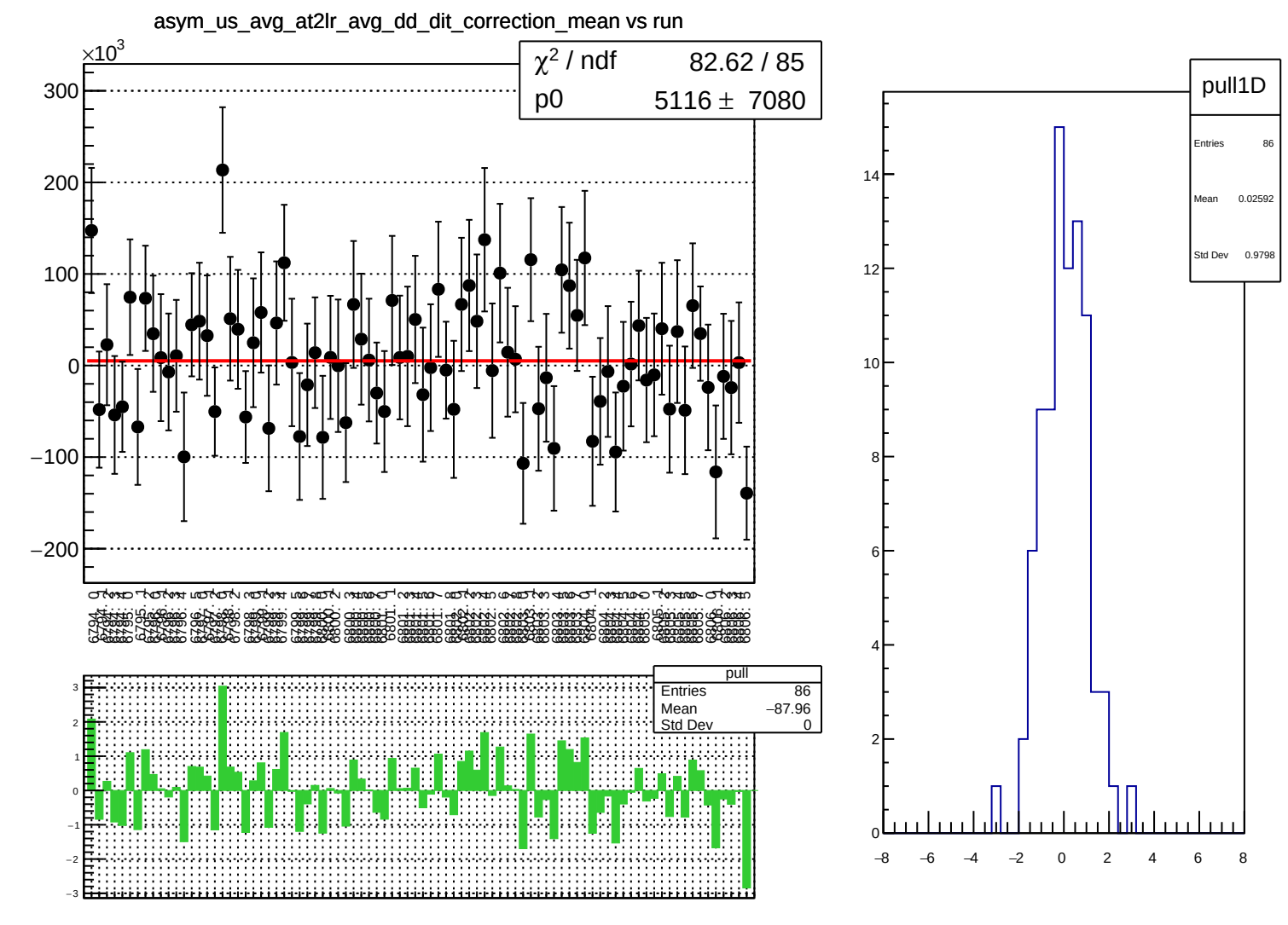

pull1D
Entries 86
Mean 0.02604
Std Dev 0.9795

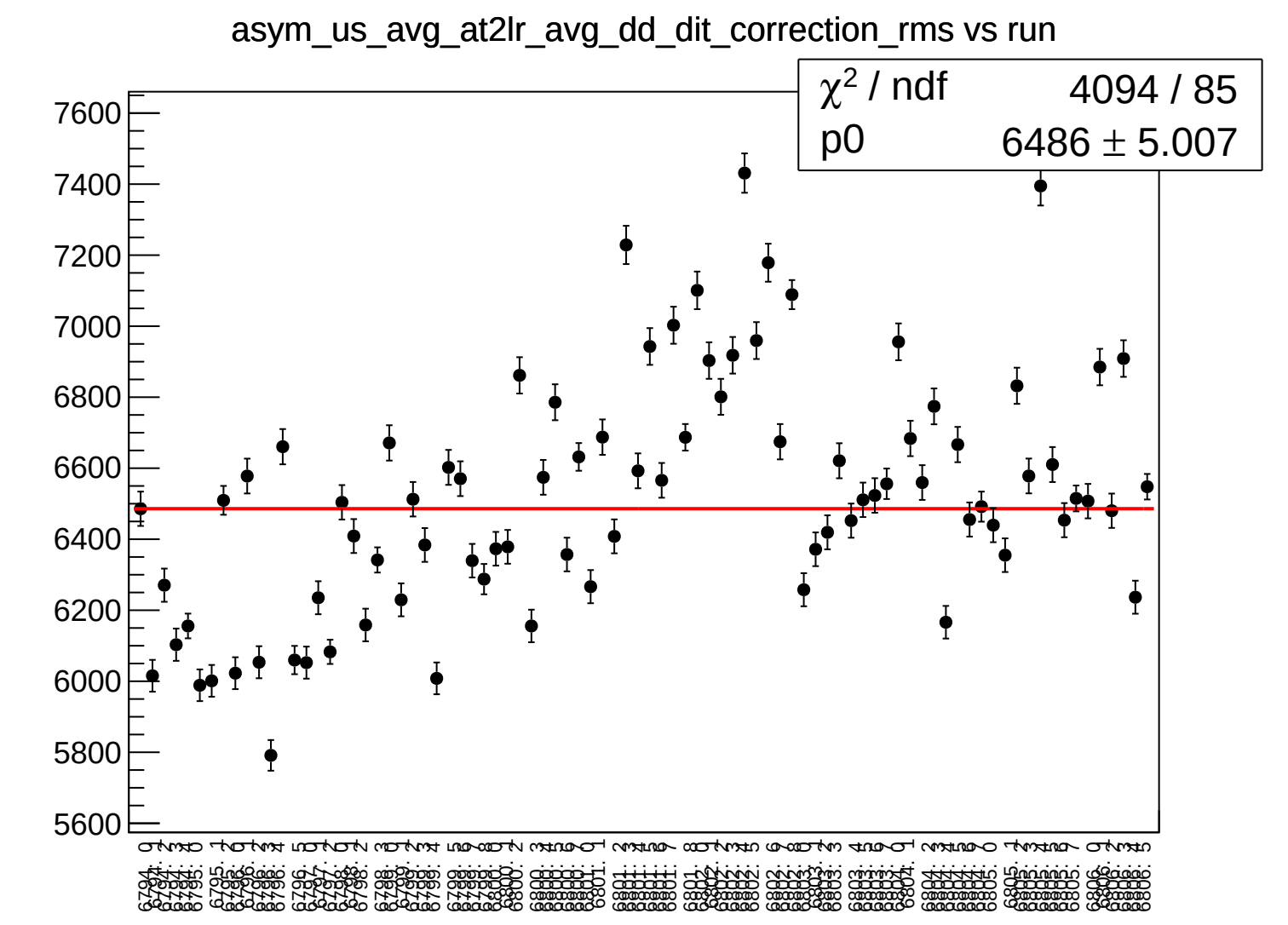

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3972 / 85
p0 6065 ± 4.681
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

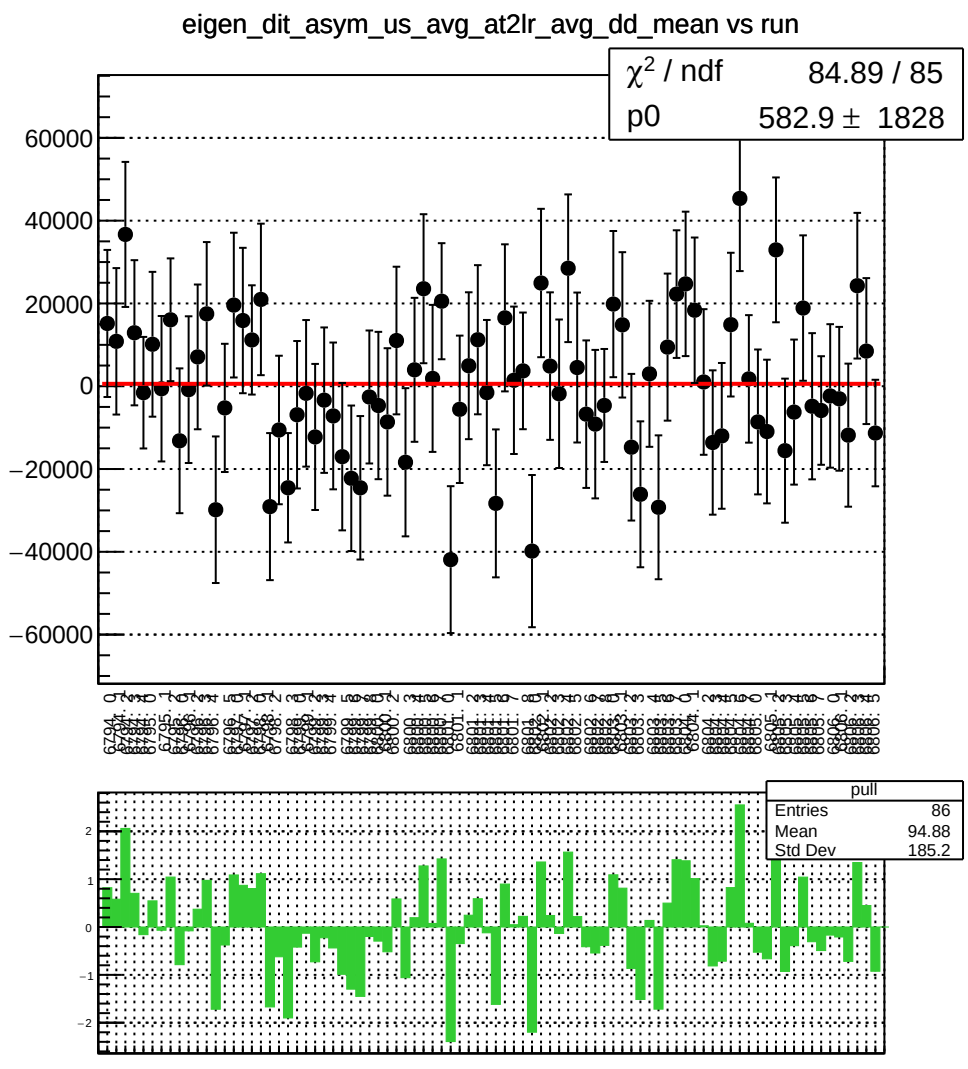

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.89 / 85
p0 582.9 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 94.88
Std Dev 185.2
2
1
0
−1
−2

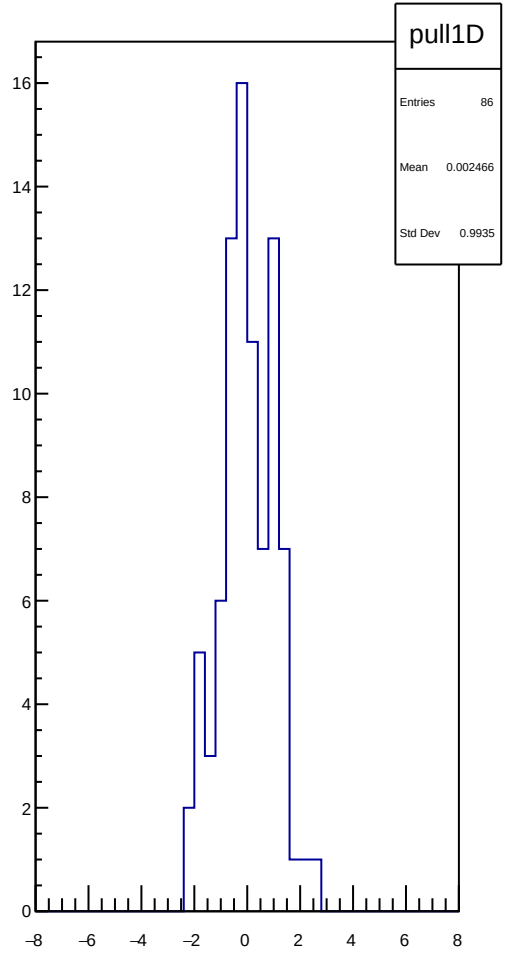

pull1D
Entries 86
Mean 0.002466
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

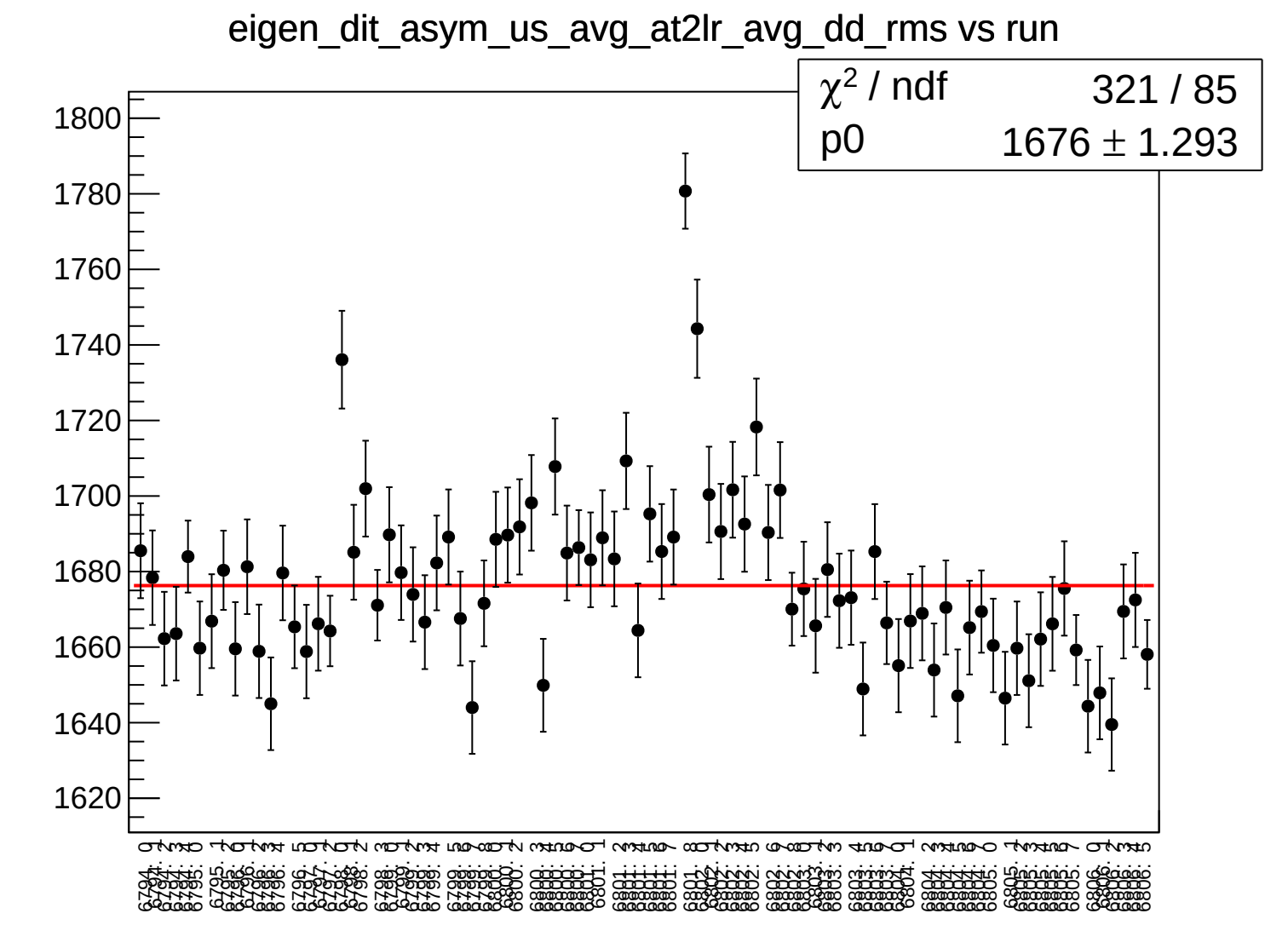

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 320.9 / 85
p0 1676 ± 1.293
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

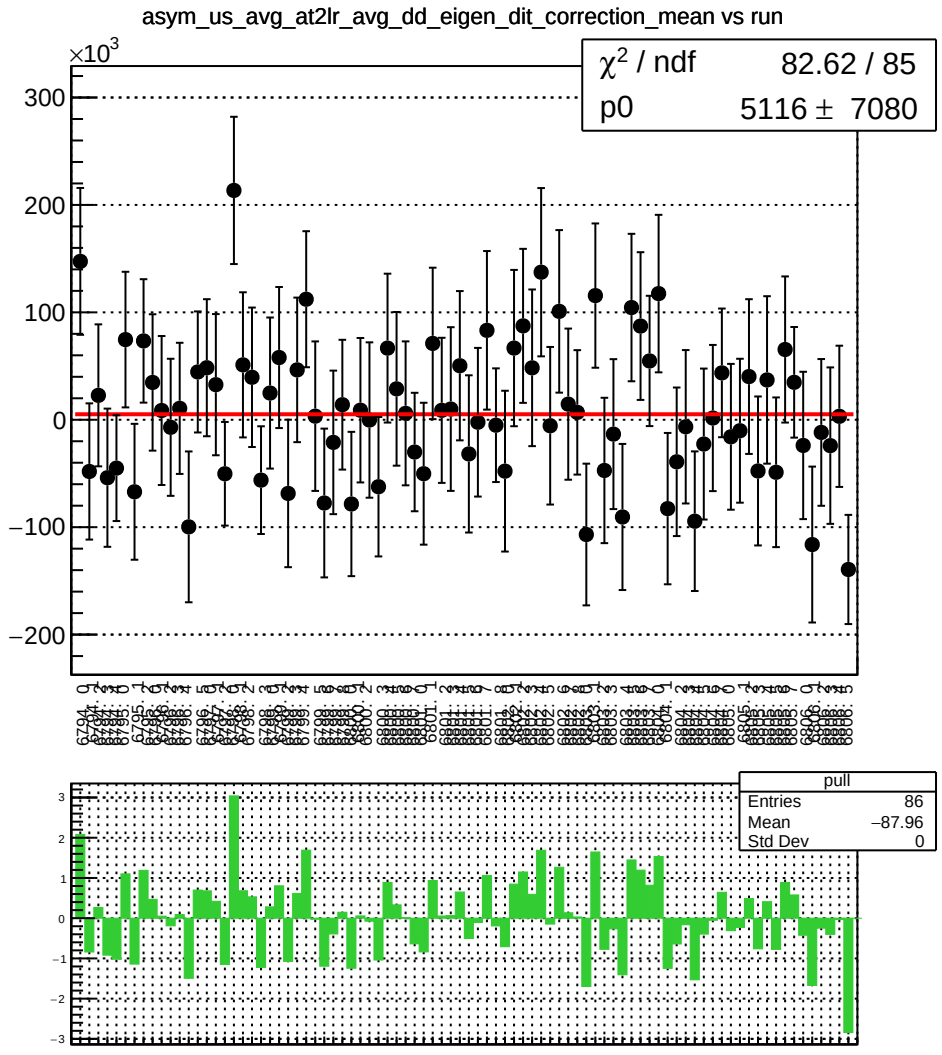

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 82.62 / 85
p0 5116 ± 7080
300
200
100
0
−100
−200
pull
Entries 86
Mean −87.96
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02592
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

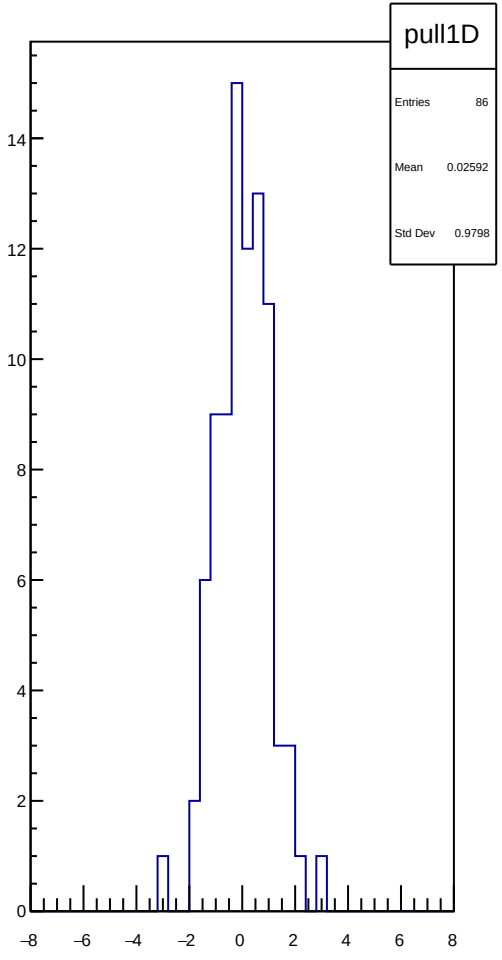

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4094 / 85
p0 6486 ± 5.007
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

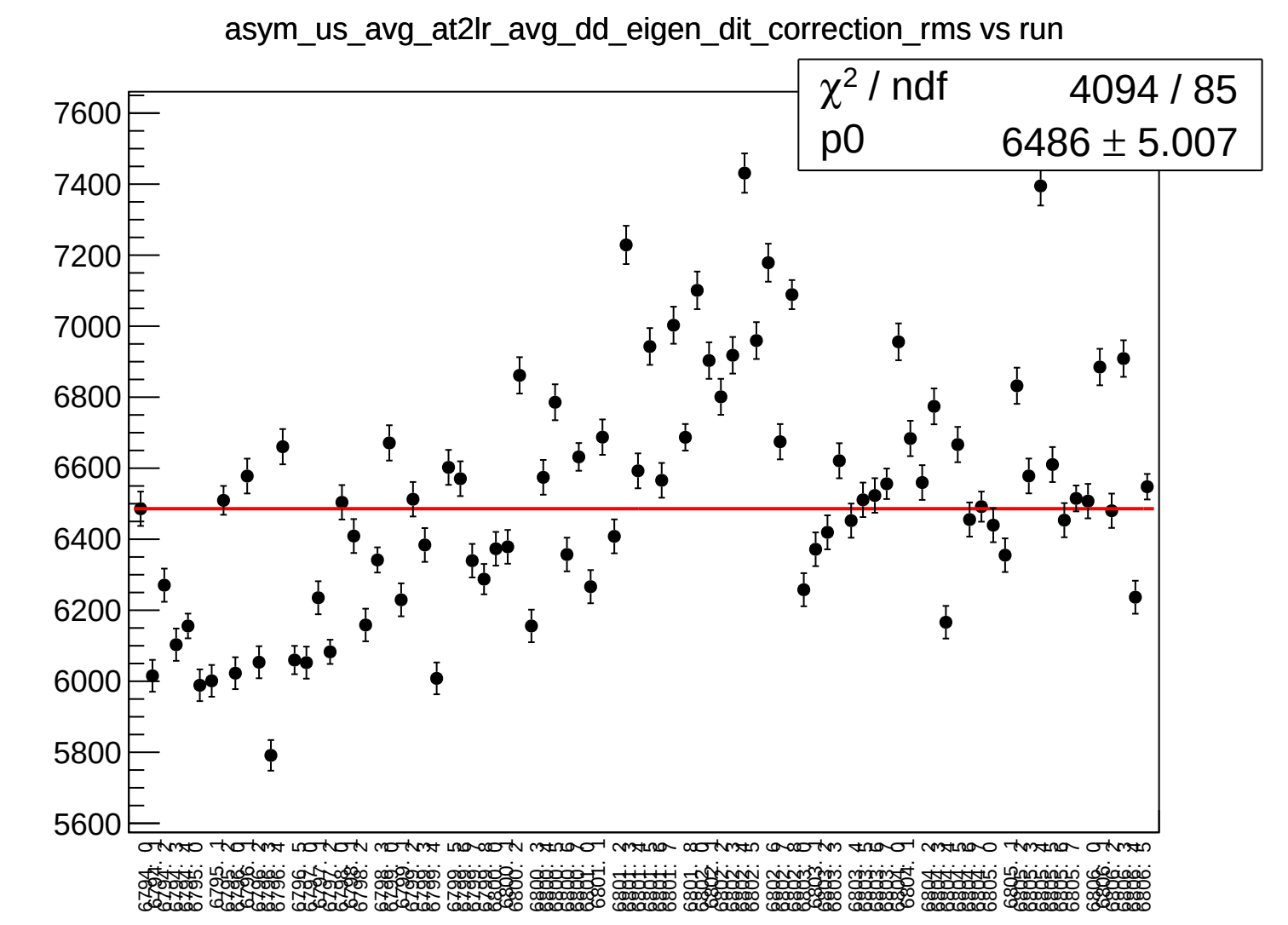

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 84.89 / 85
p0 582.9 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean 94.88
Std Dev 185.2
2
1
0
−1
−2

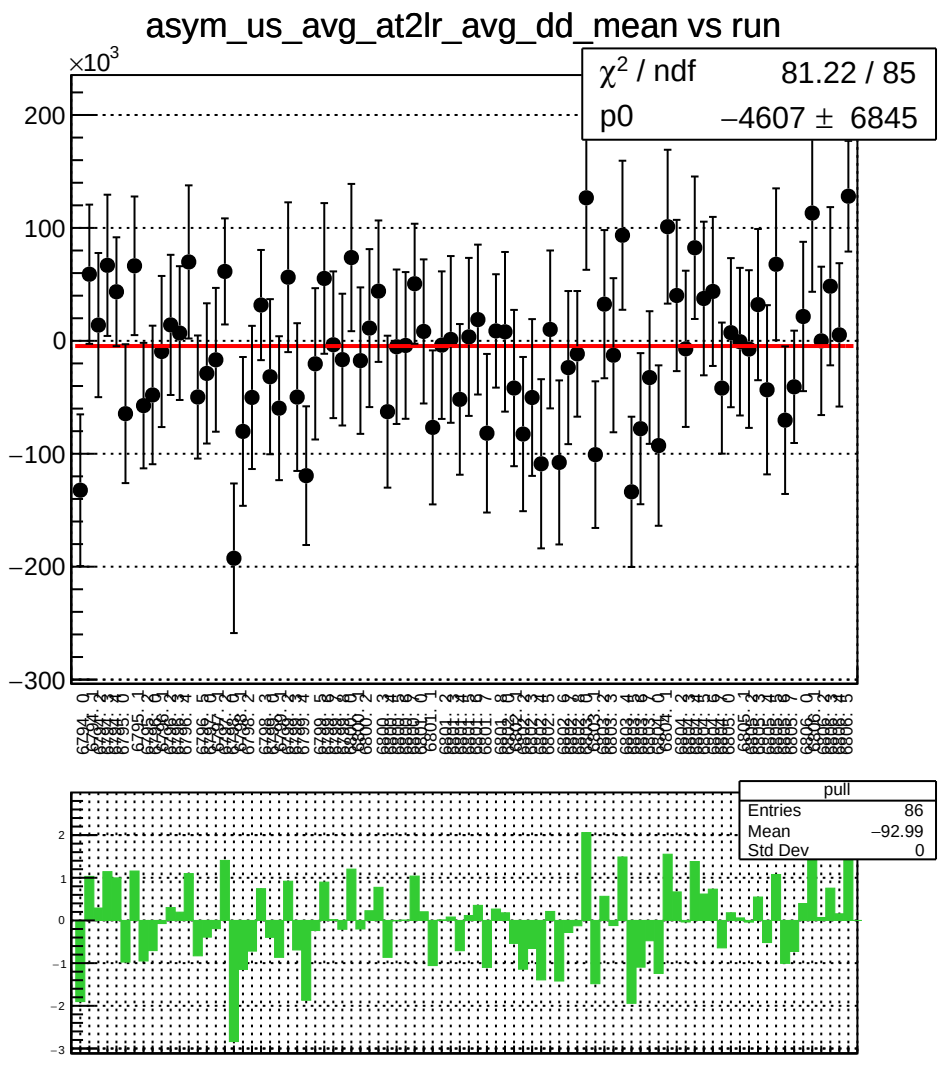

pull1D
Entries 86
Mean 0.002466
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

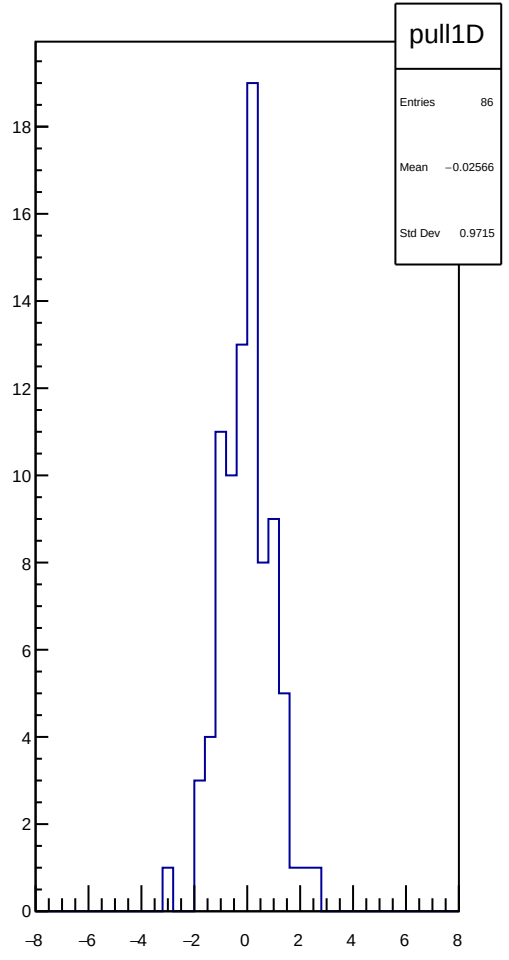

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 321 / 85
p0 1676 ± 1.293
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

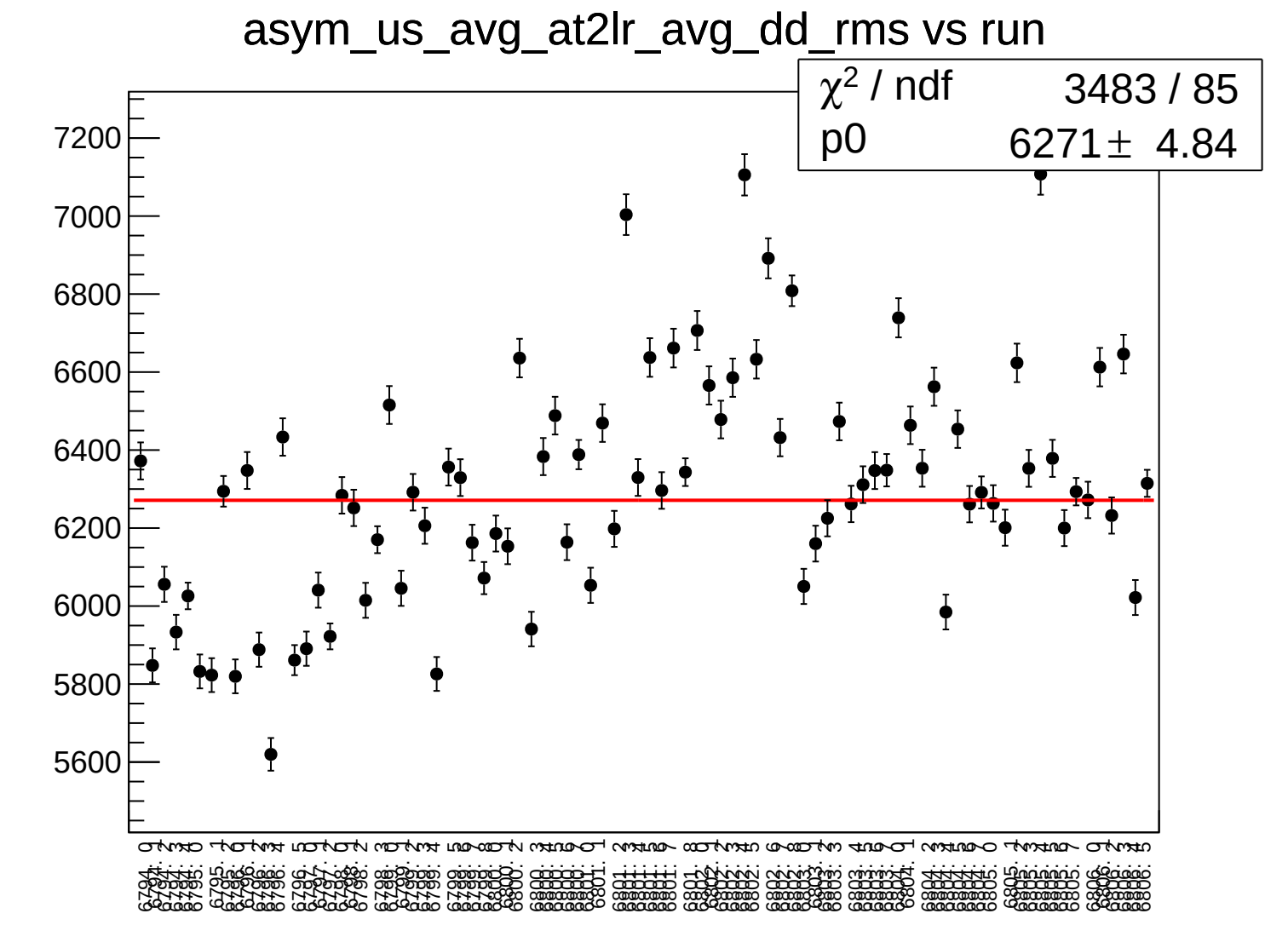

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 82.62 / 85
p0 5116 ± 7080
300
200
100
0
−100
−200
pull
Entries 86
Mean −87.96
Std Dev 0
3
2
1
0
−1
−2
−3

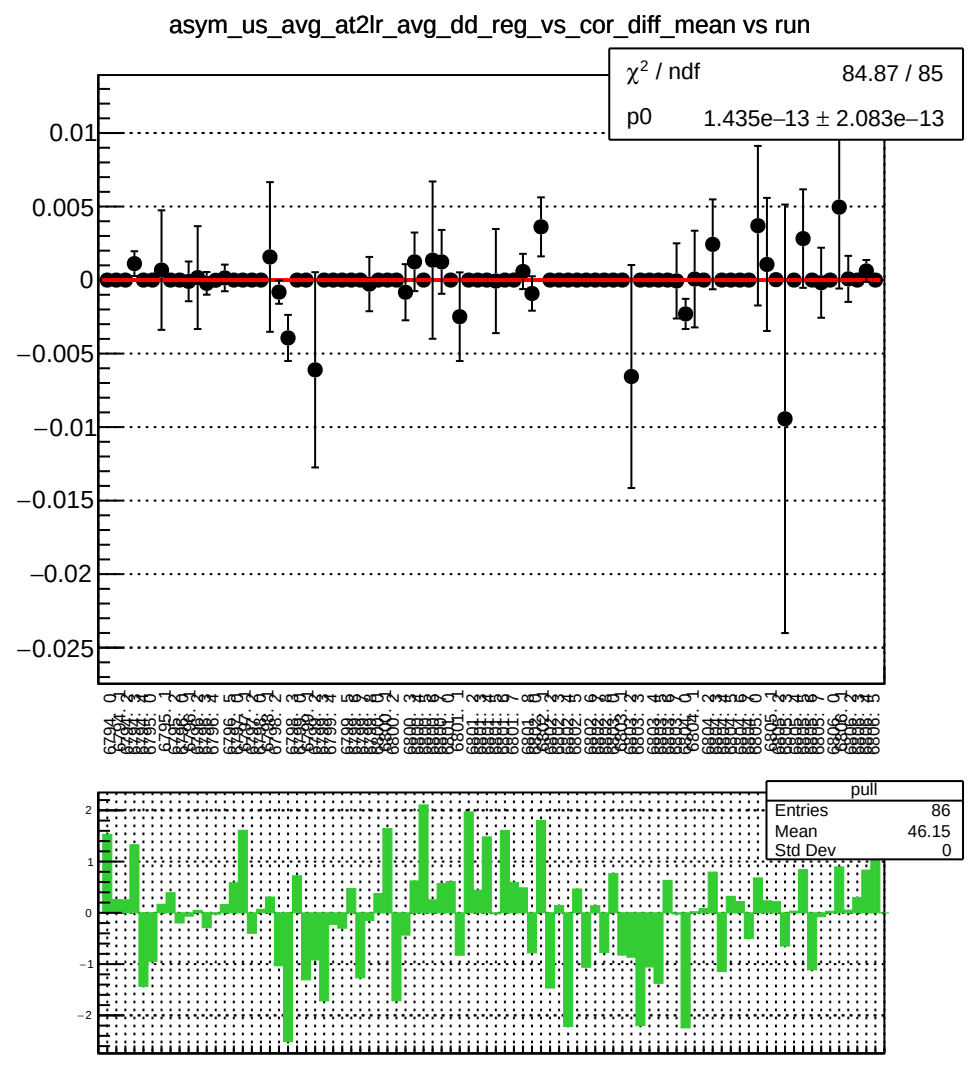

pull1D
Entries 86
Mean 0.02592
Std Dev 0.9798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

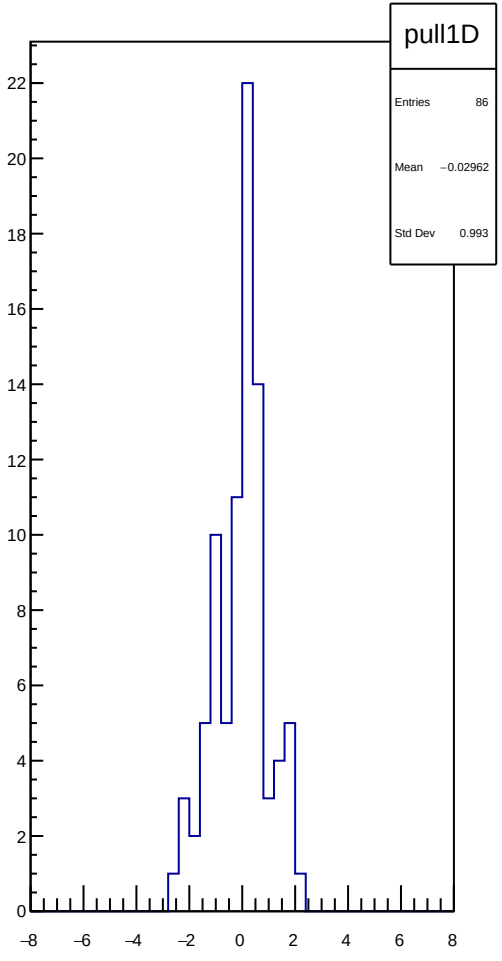

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4094 / 85
p0 6486 ± 5.007
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800
5600

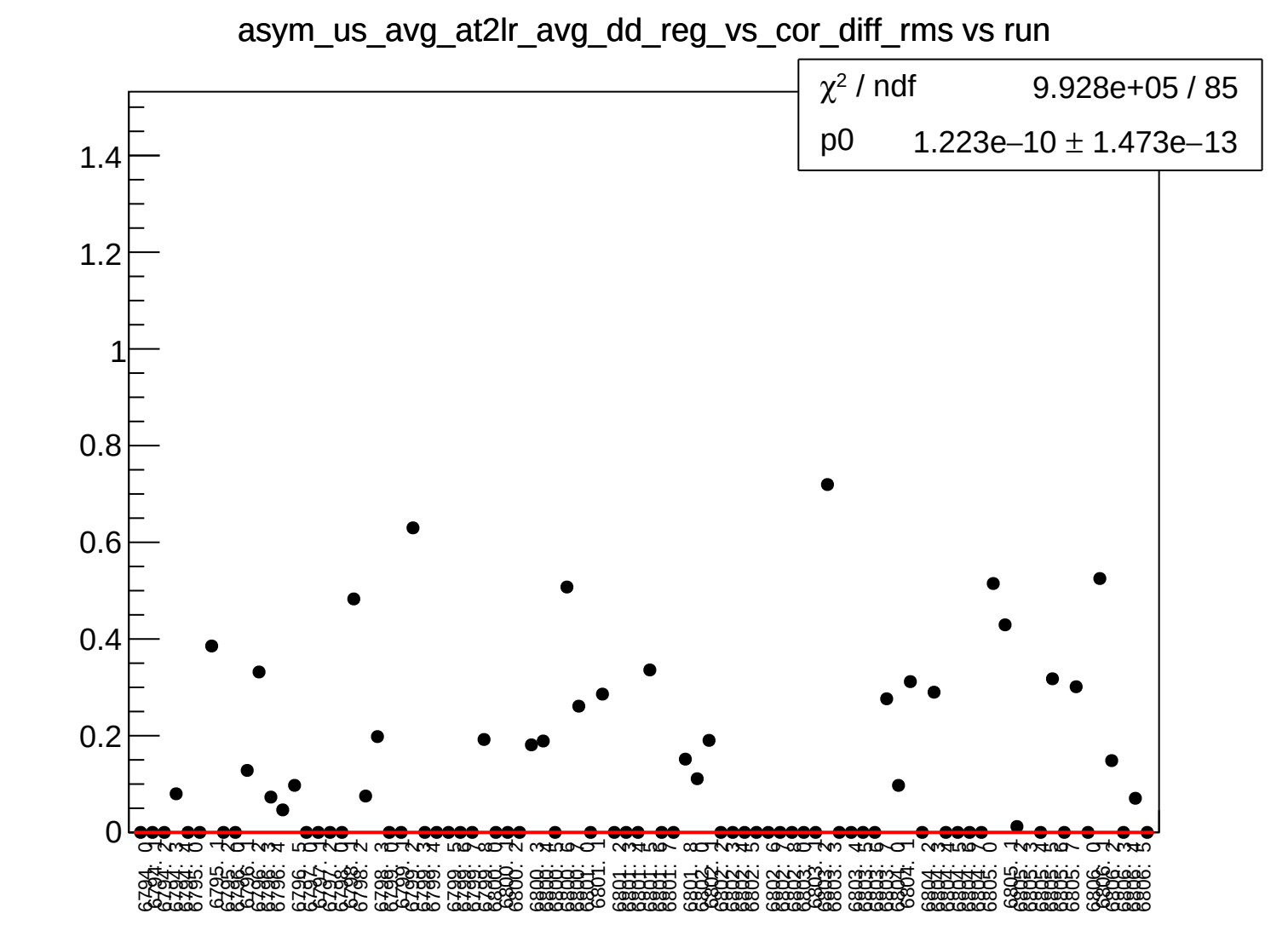

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 81.22 / 85
p0 −4607 ± 6845
pull
Entries 86
Mean −92.99
Std Dev 0

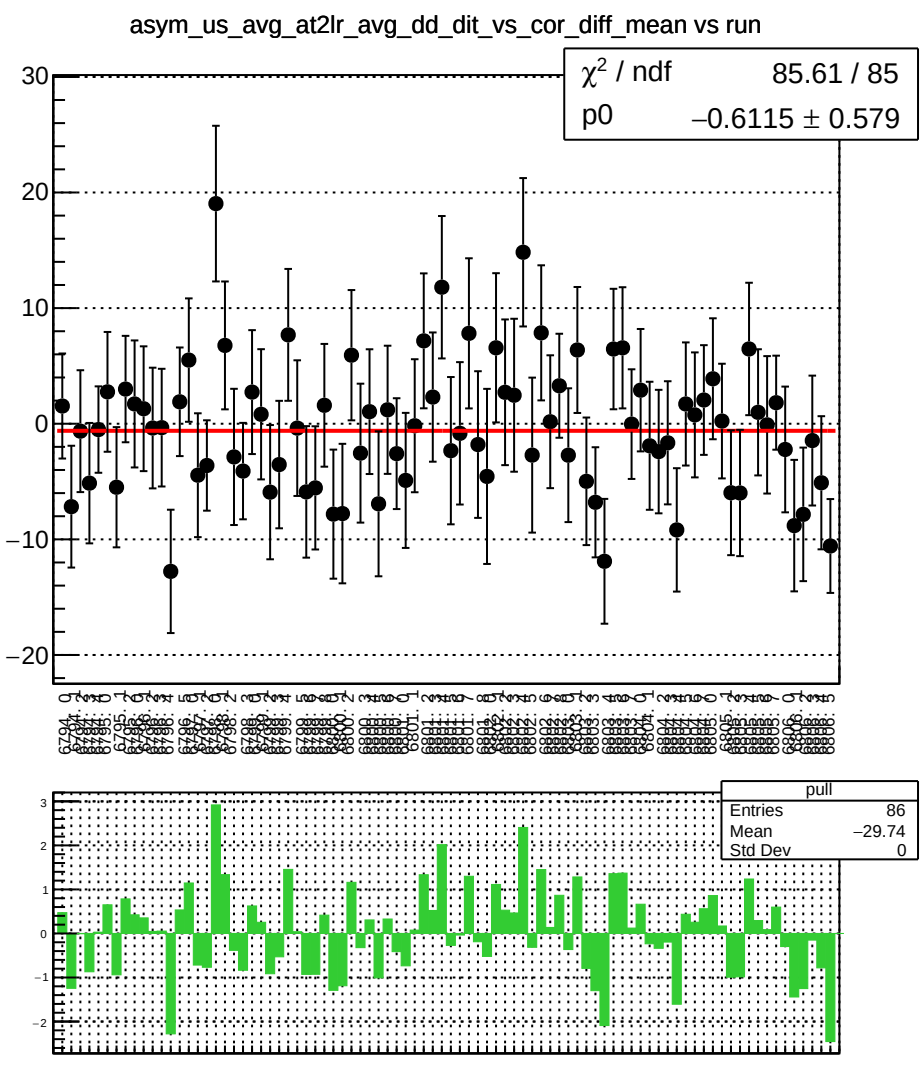

pull1D
Entries 86
Mean −0.02566
Std Dev 0.9715

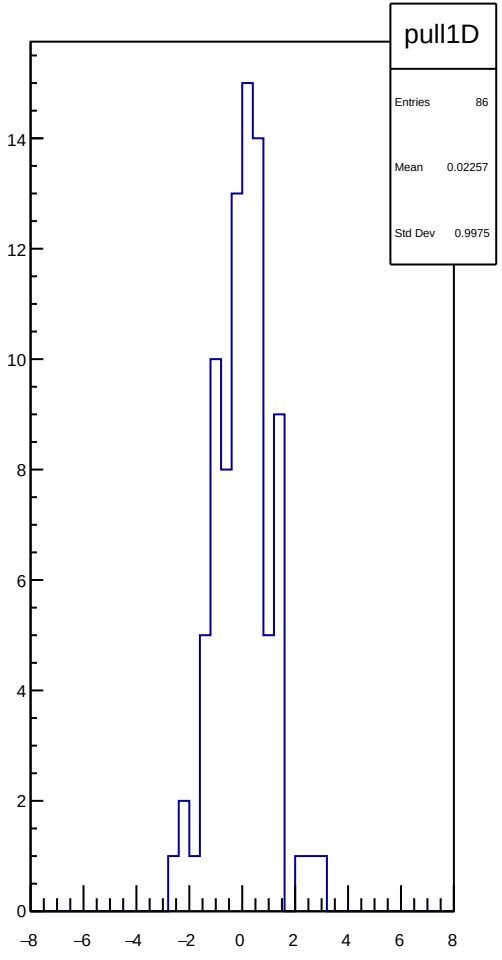

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3483 / 85
p0 6271 ± 4.84
7200
7000
6800
6600
6400
6200
6000
5800
5600

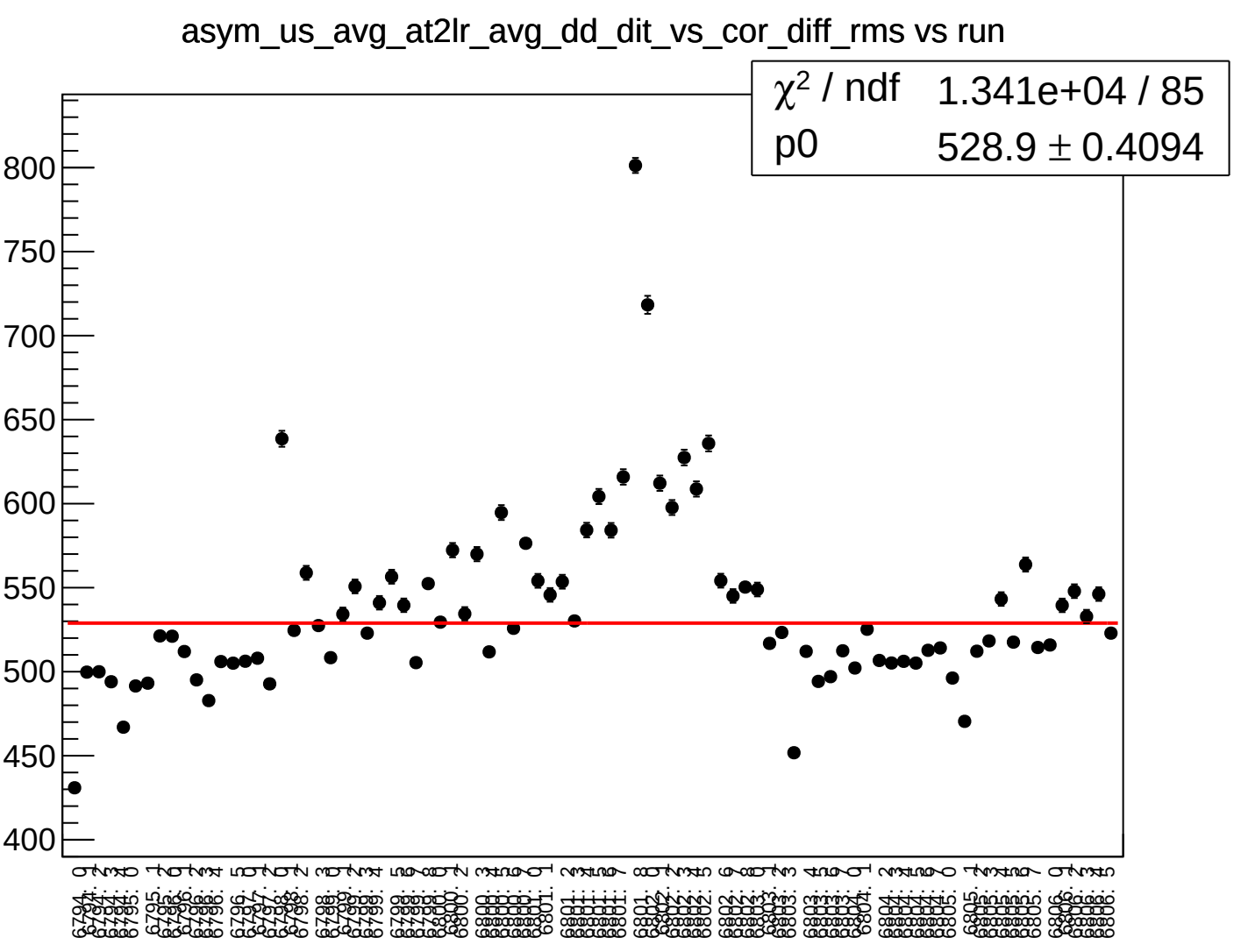

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.87 / 85
p0 1.435e−13 ± 2.083e−13
pull
Entries 86
Mean 46.15
Std Dev 0

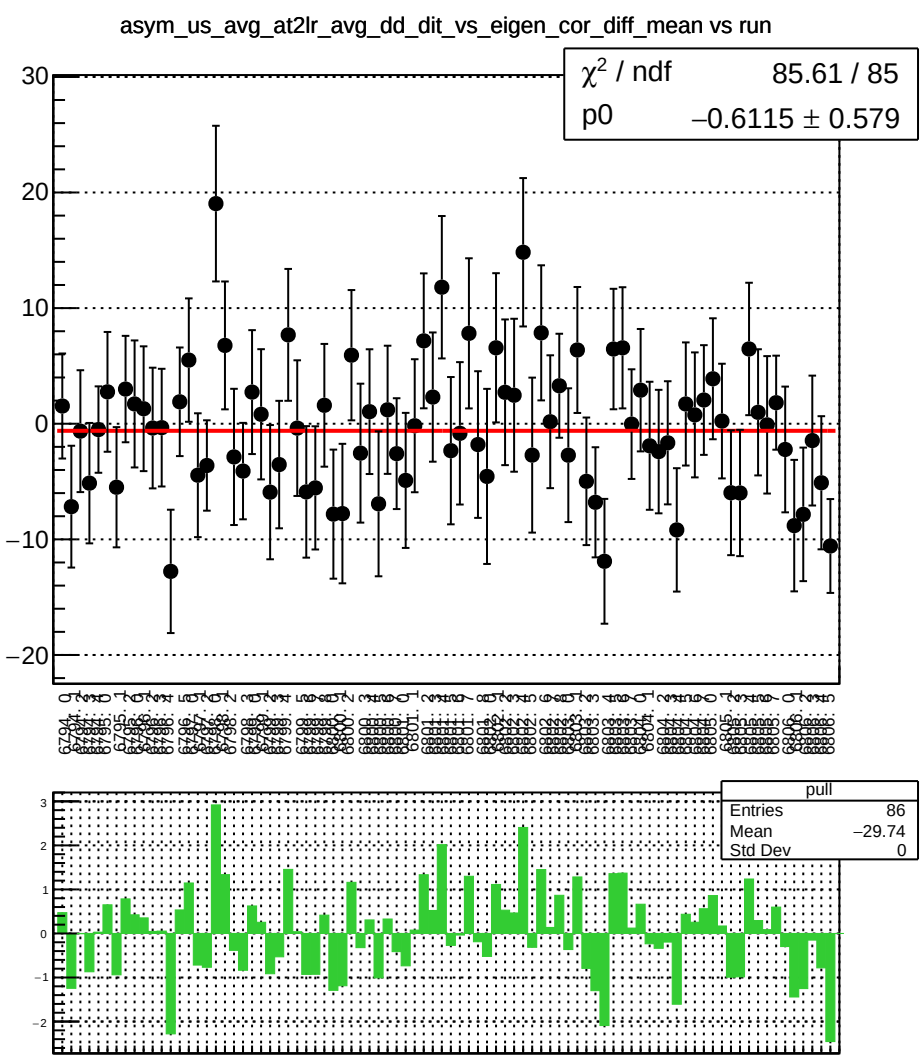

pull1D
Entries 86
Mean −0.02962
Std Dev 0.993

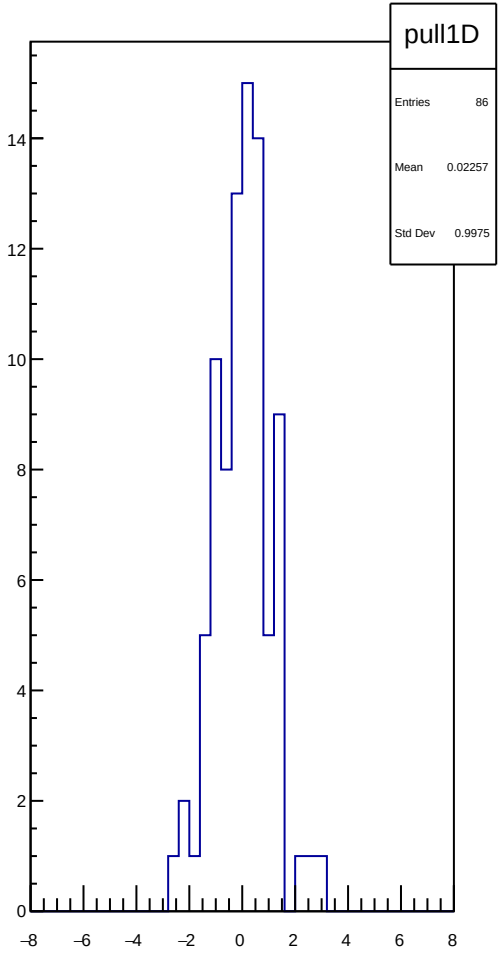

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.928e+05 / 85
p0 1.223e−10 ± 1.473e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

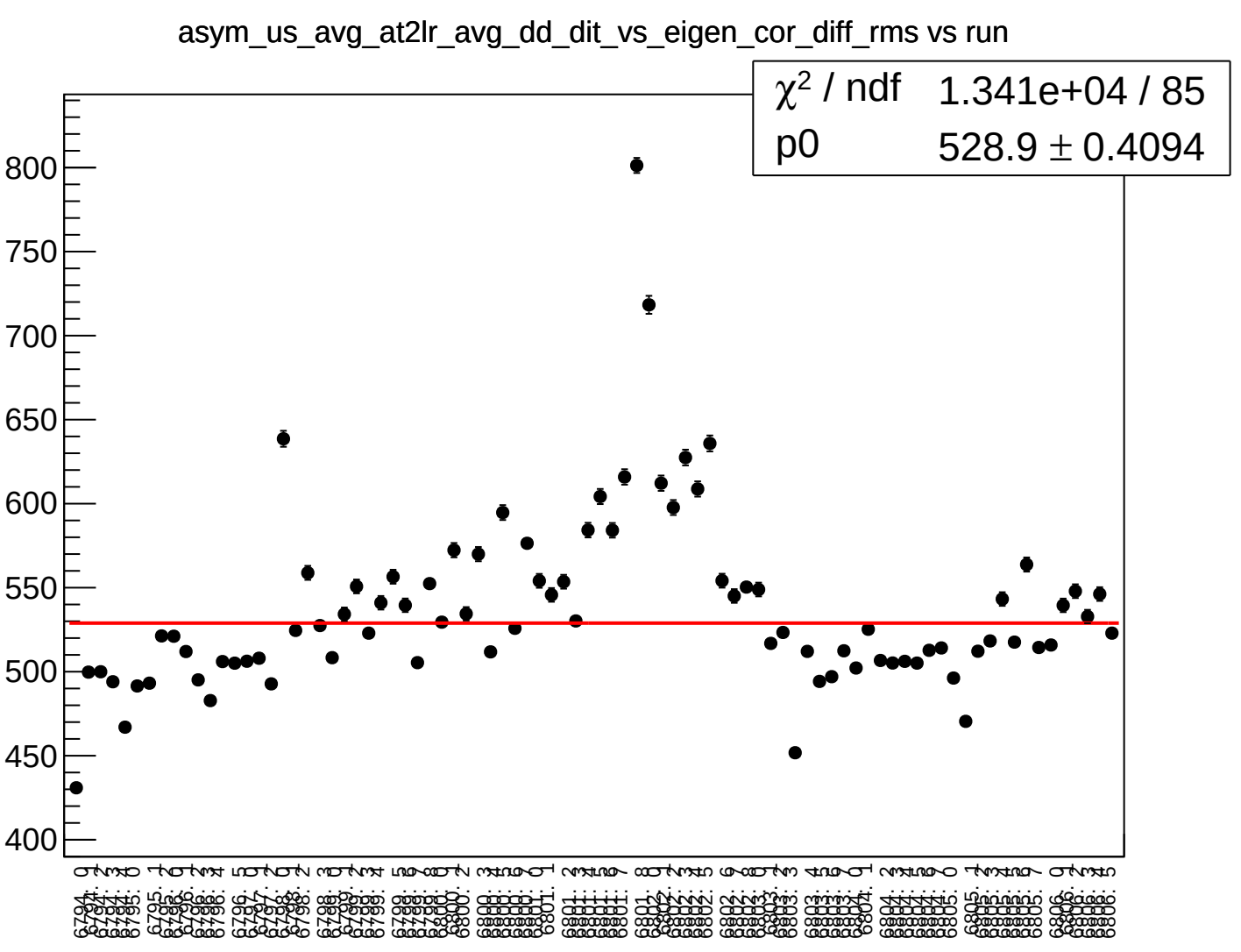

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.61 / 85
p0 −0.6115 ± 0.579
pull
Entries 86
Mean −29.74
Std Dev 0

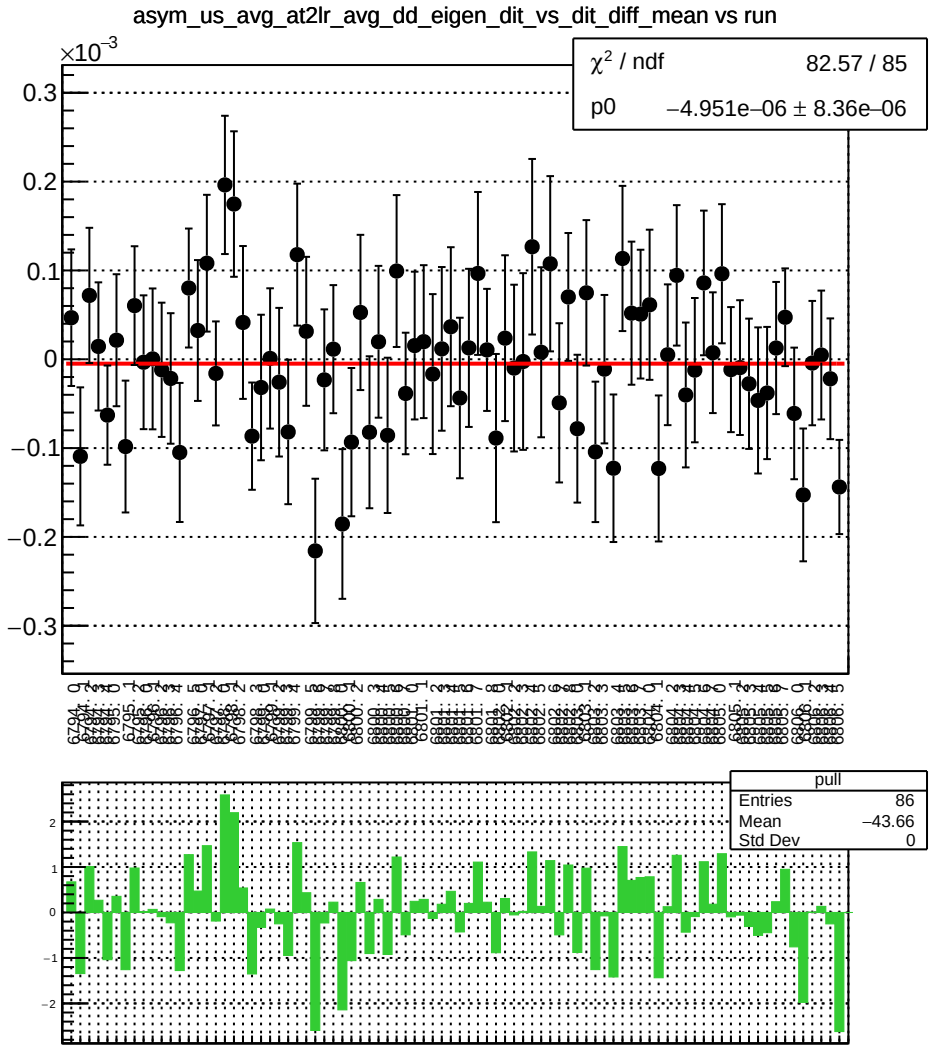

pull1D
Entries 86
Mean 0.02257
Std Dev 0.9975

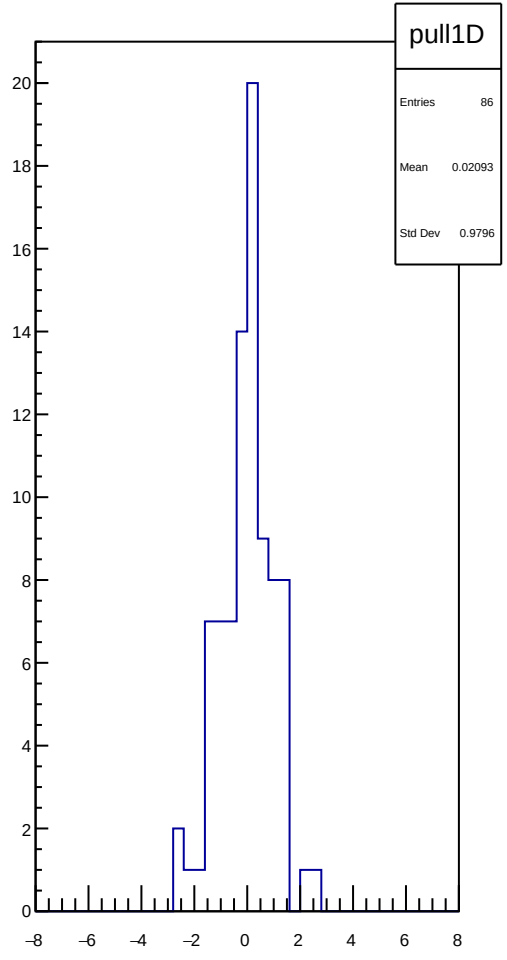

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 85
p0 528.9 ± 0.4094
800
750
700
650
600
550
500
450
400

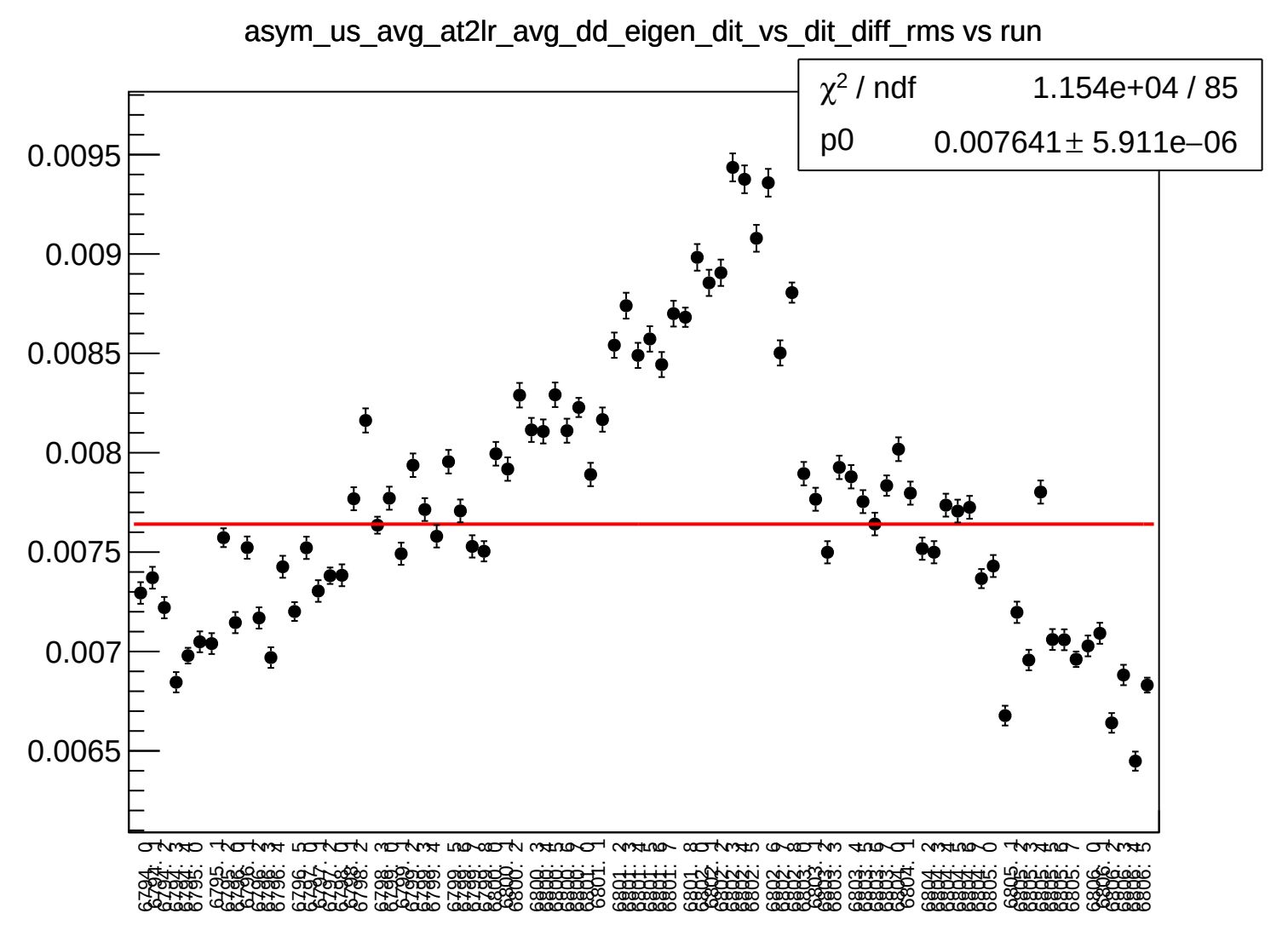

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.61 / 85
p0 −0.6115 ± 0.579
pull
Entries 86
Mean −29.74
Std Dev 0

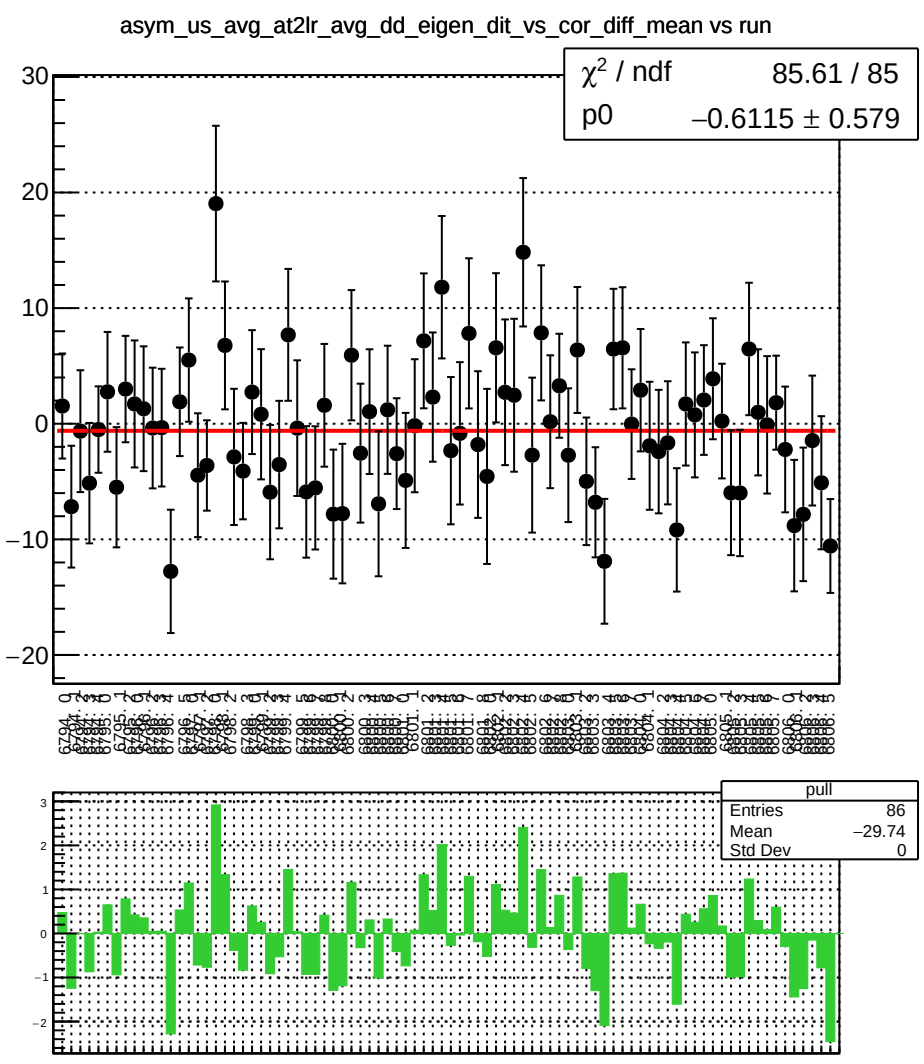

pull1D
Entries 86
Mean 0.02257
Std Dev 0.9975

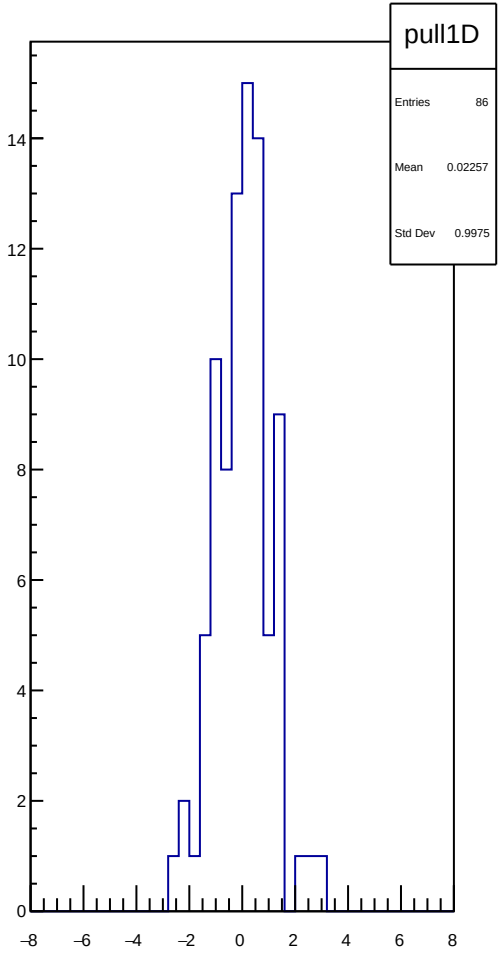

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 85
p0 528.9 ± 0.4094
800
750
700
650
600
550
500
450
400

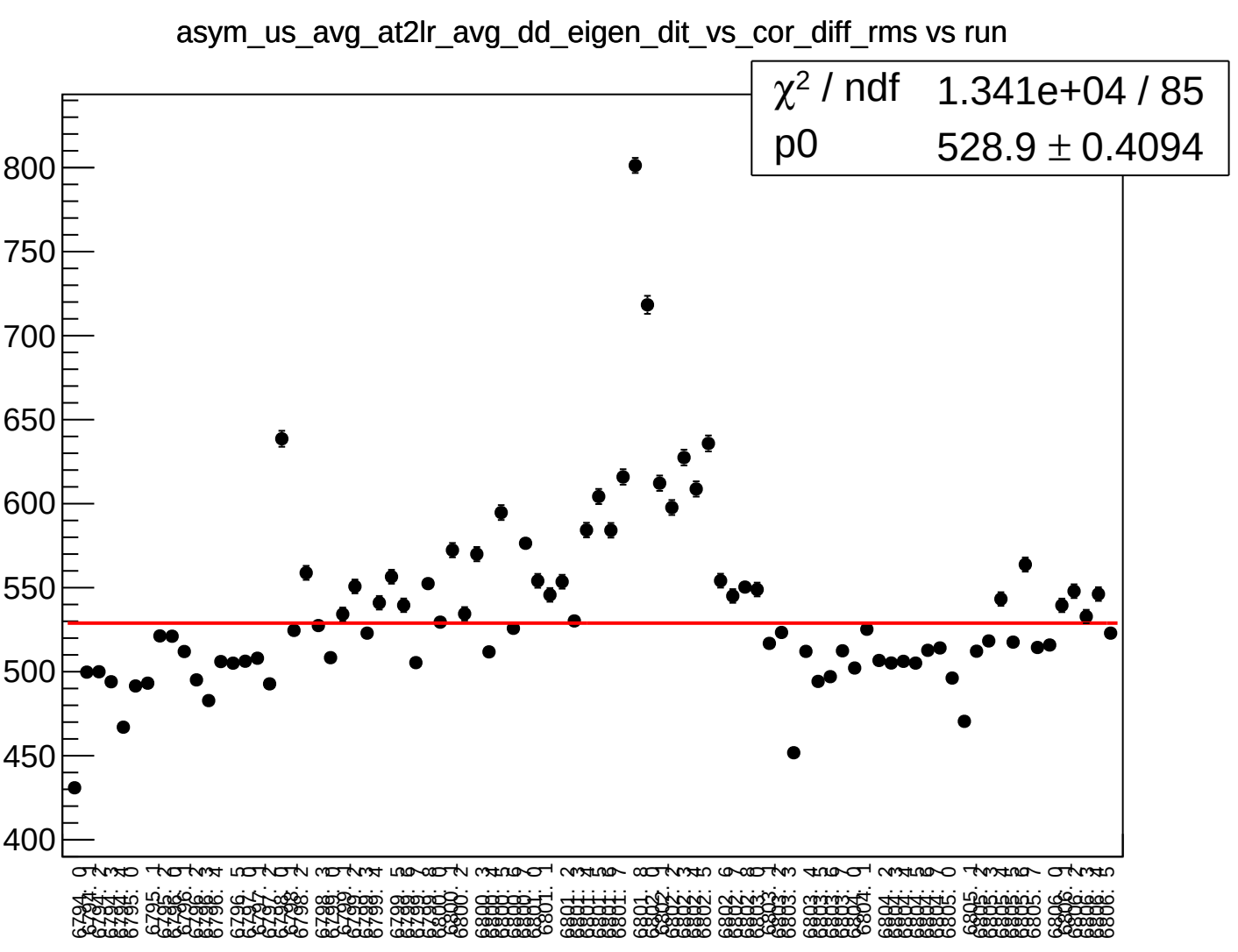

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.57 / 85
p0 −4.951e−06 ± 8.36e−06
pull
Entries 86
Mean −43.66
Std Dev 0

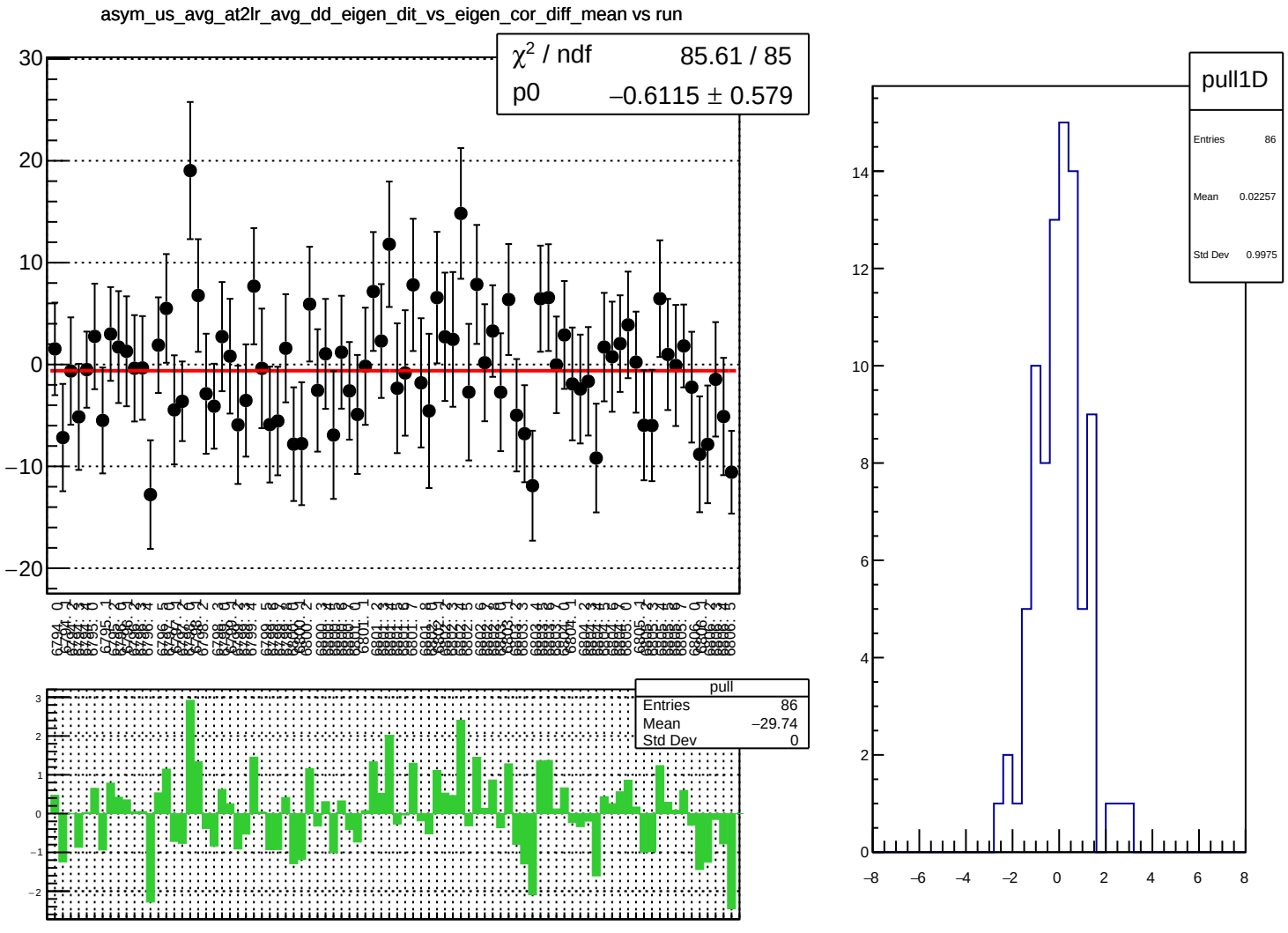

pull1D
Entries 86
Mean 0.02093
Std Dev 0.9796

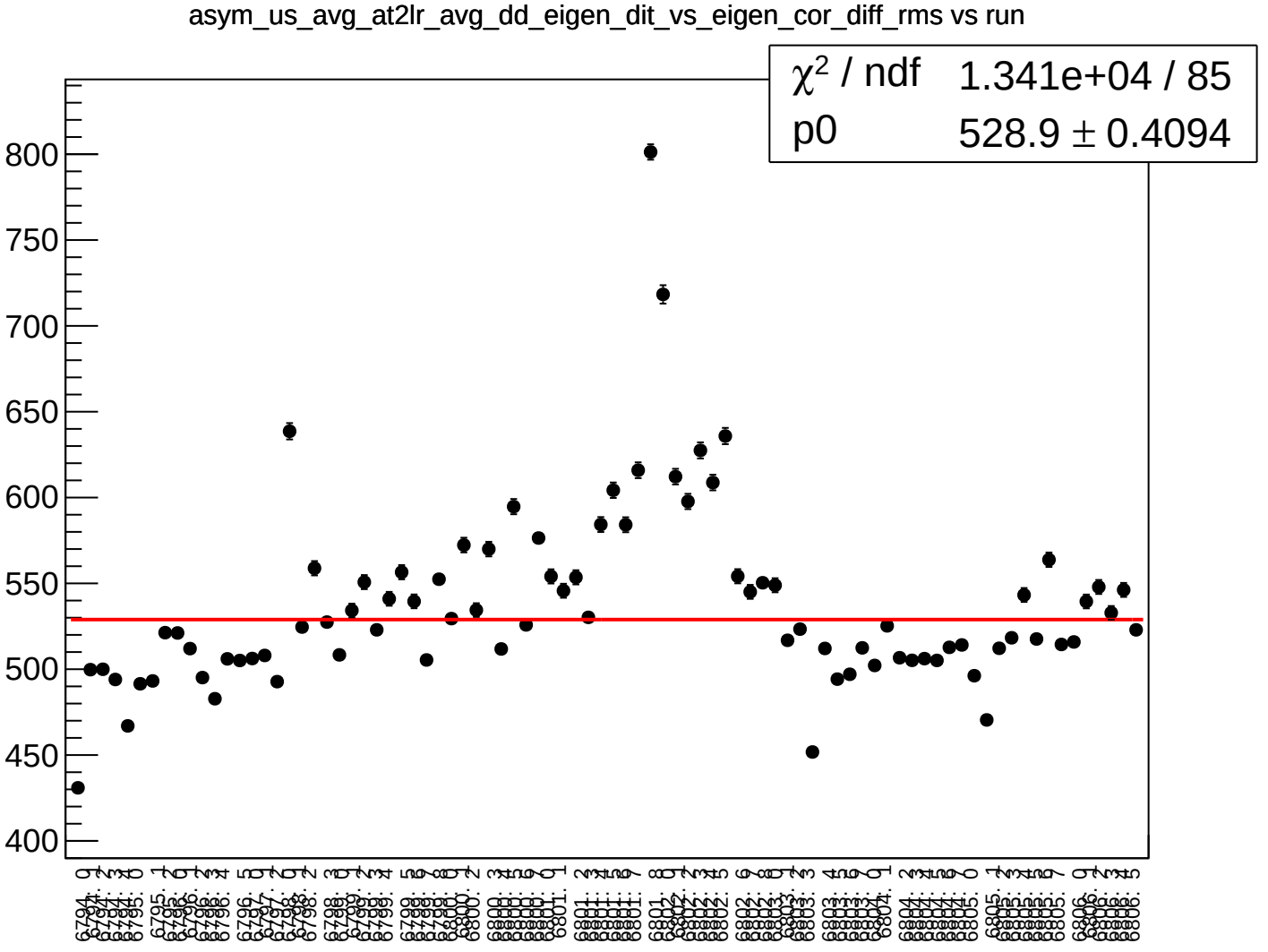

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.154e+04 / 85
p0 0.007641 ± 5.911e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

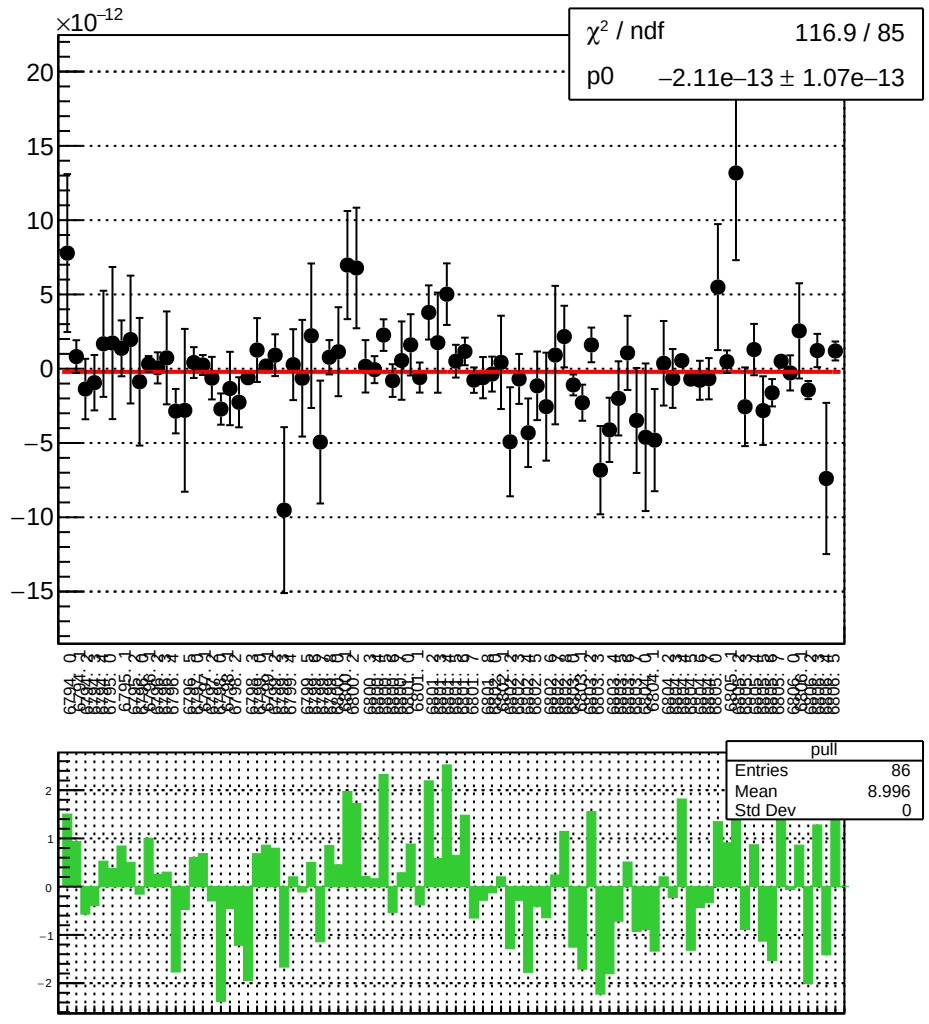

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.61 / 85
p0 −0.6115 ± 0.579
pull
Entries 86
Mean −29.74
Std Dev 0

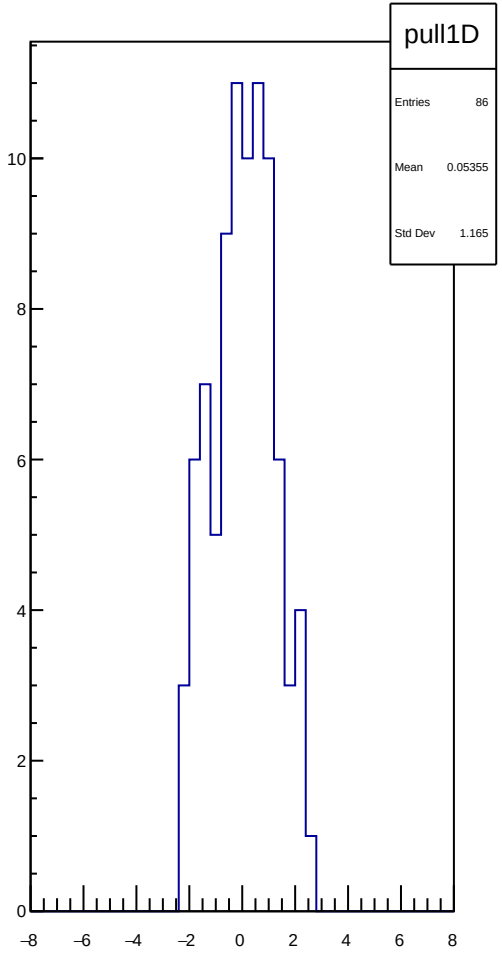

pull1D
Entries 86
Mean 0.02257
Std Dev 0.9975

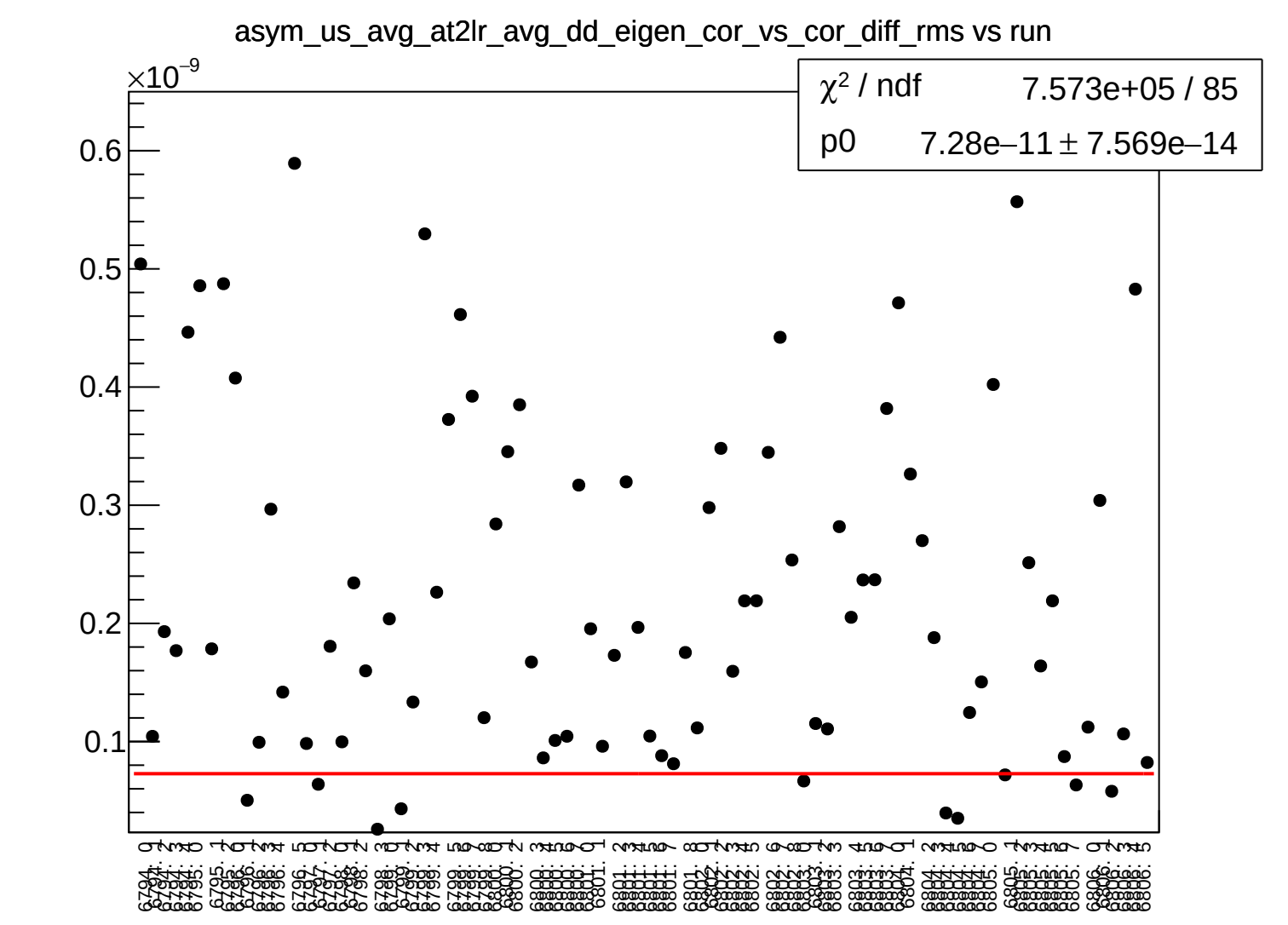

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 85
p0 528.9 ± 0.4094
800
750
700
650
600
550
500
450
400

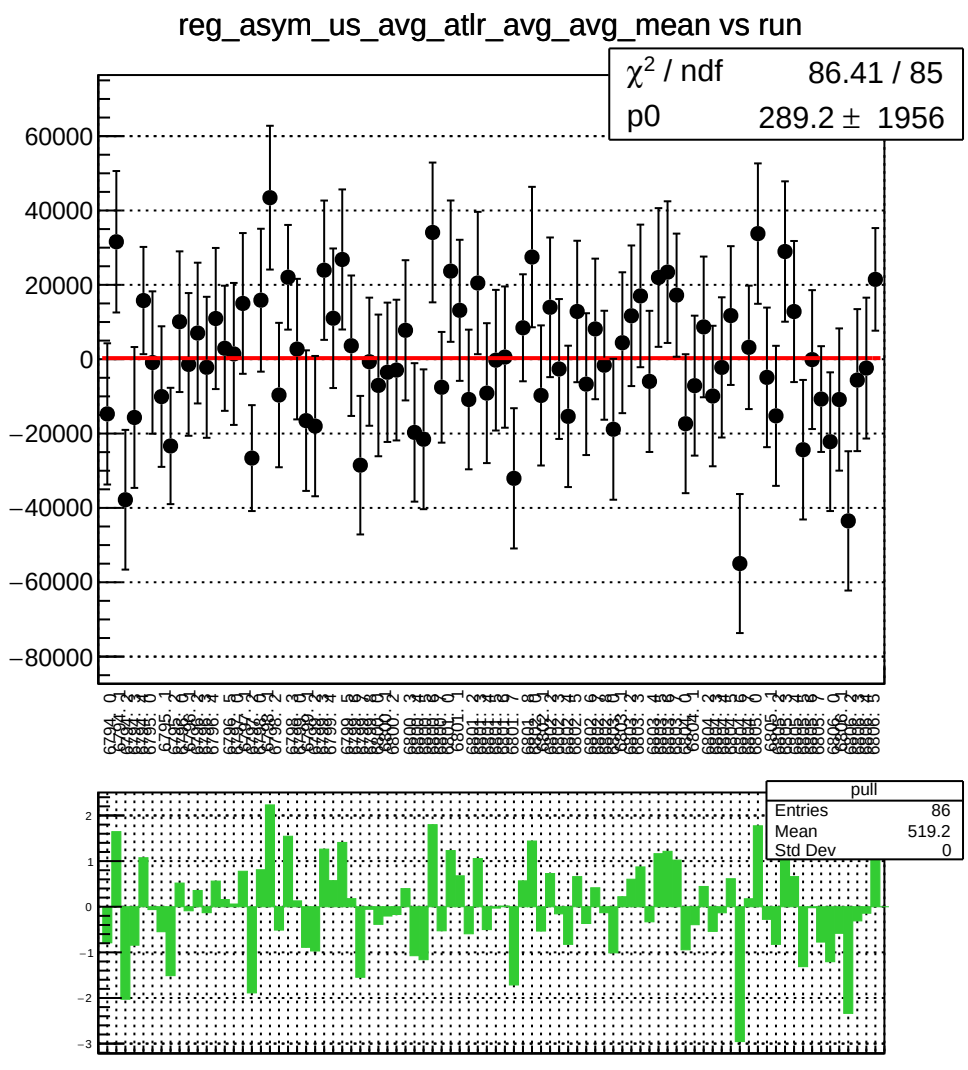

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.61 / 85
p0 −0.6115 ± 0.579
pull
Entries 86
Mean −29.74
Std Dev 0
pull1D
Entries 86
Mean 0.02257
Std Dev 0.9975

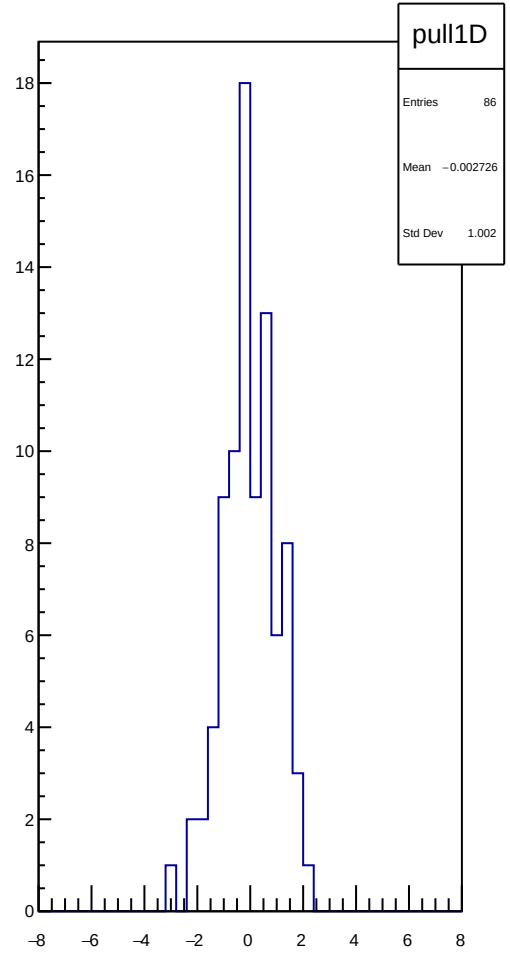

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.341e+04 / 85
p0 528.9 ± 0.4094
800
750
700
650
600
550
500
450
400

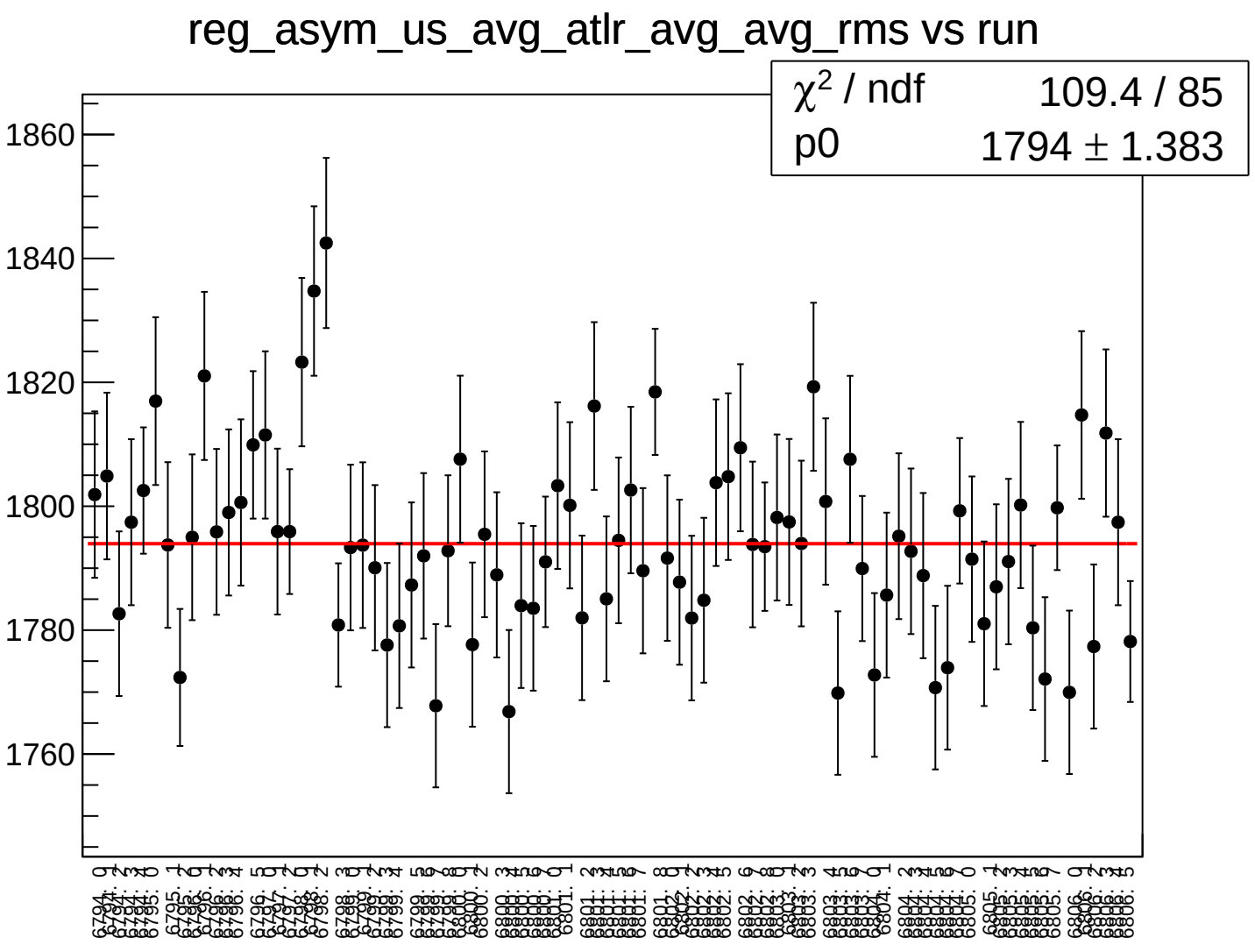

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.9 / 85
p0 −2.11e−13 ± 1.07e−13
pull
Entries 86
Mean 8.996
Std Dev 0

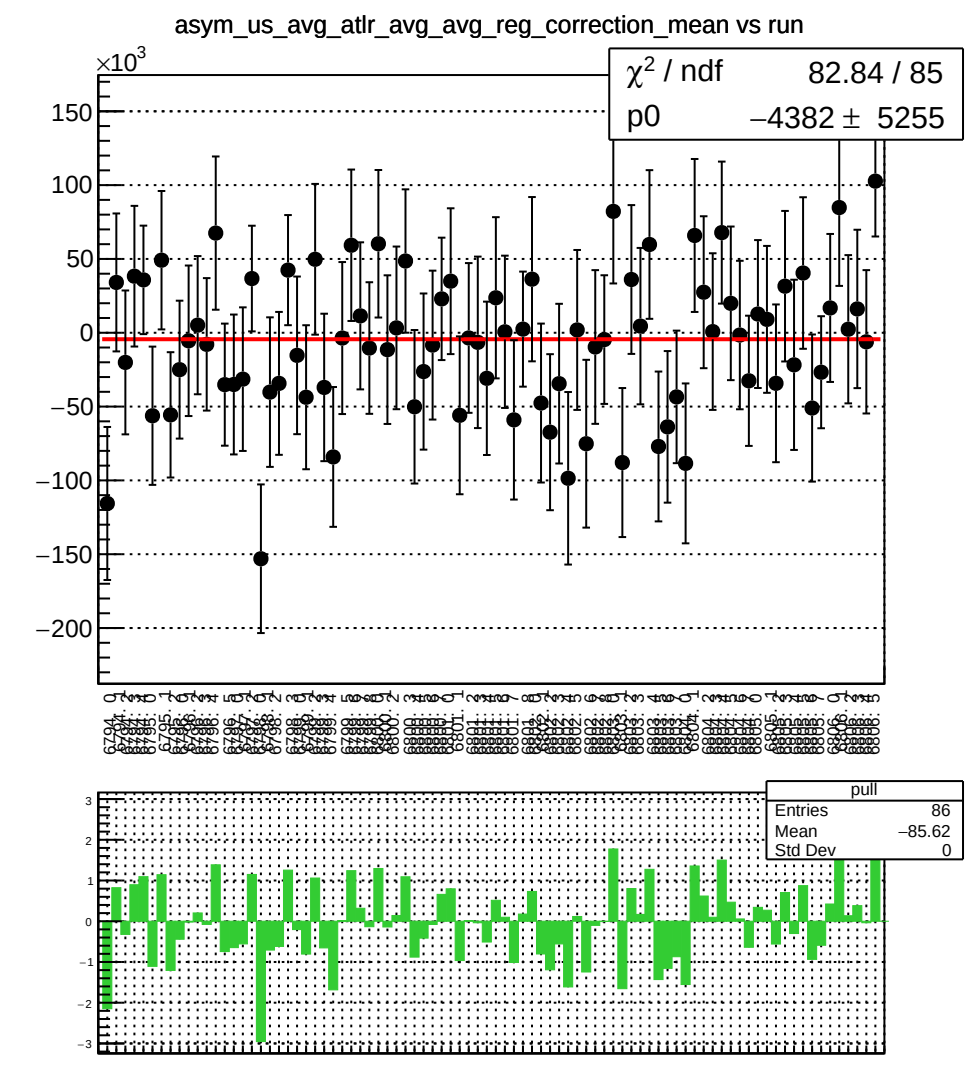

pull1D
Entries 86
Mean 0.05355
Std Dev 1.165

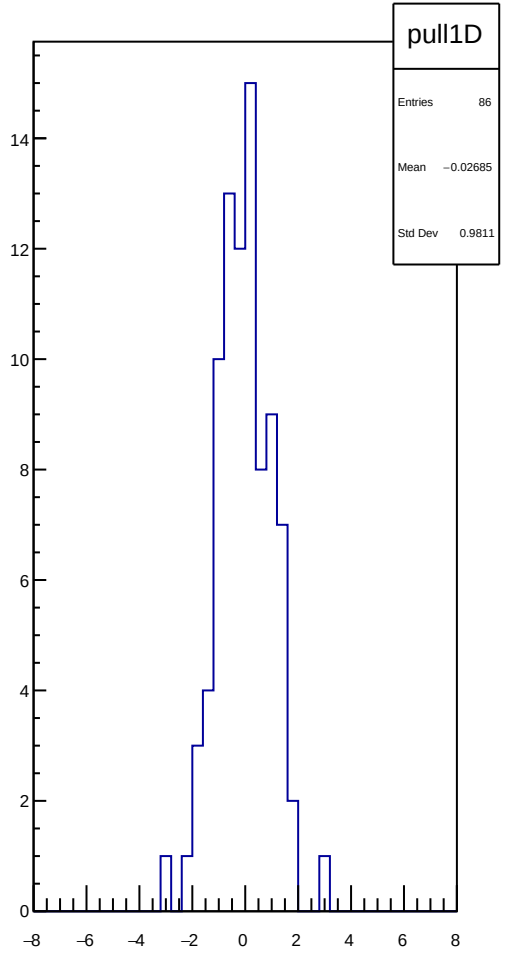

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.573e+05 / 85
p0 7.28e−11 ± 7.569e−14
0.6
0.5
0.4
0.3
0.2
0.1

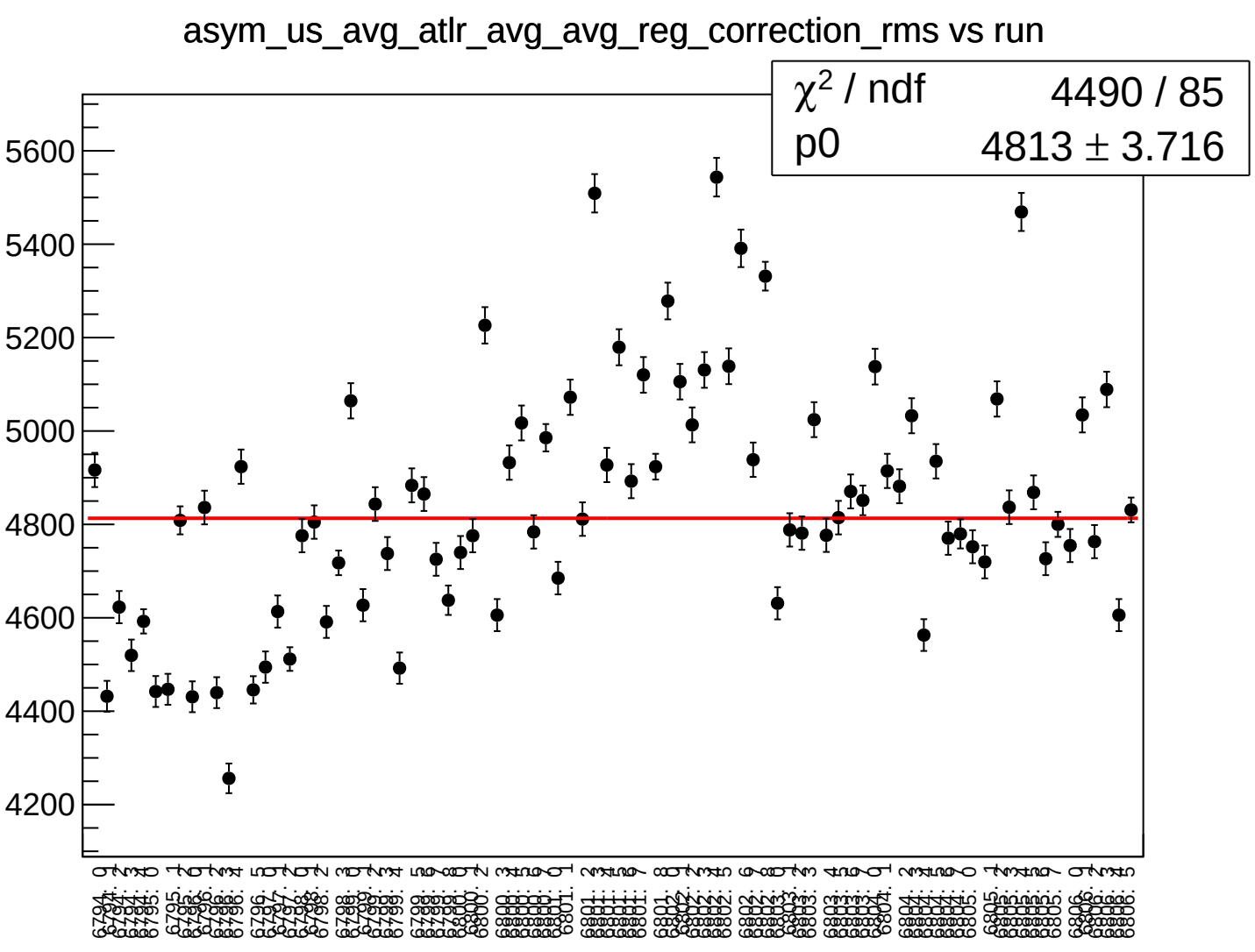

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.41 / 85
p0 289.2 ± 1956
pull
Entries 86
Mean 519.2
Std Dev 0

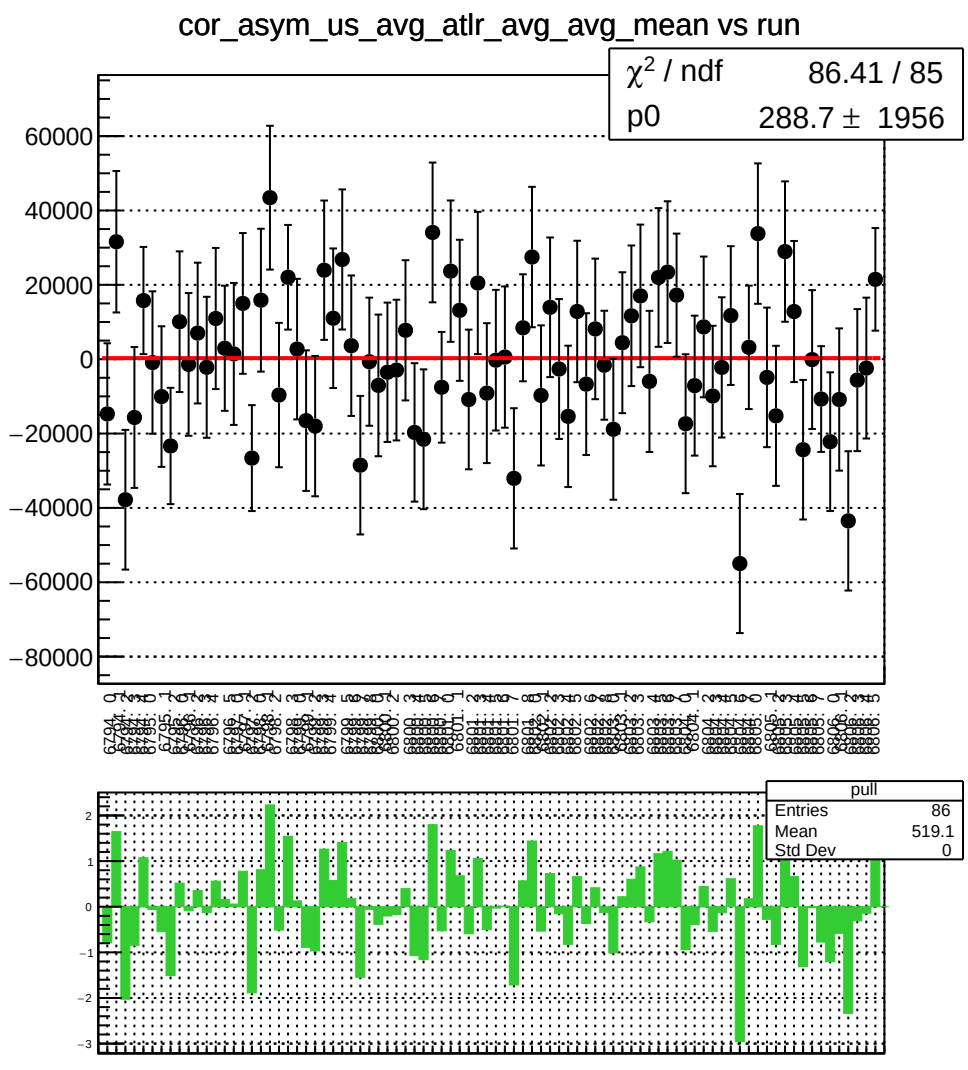

pull1D
Entries 86
Mean −0.002726
Std Dev 1.002

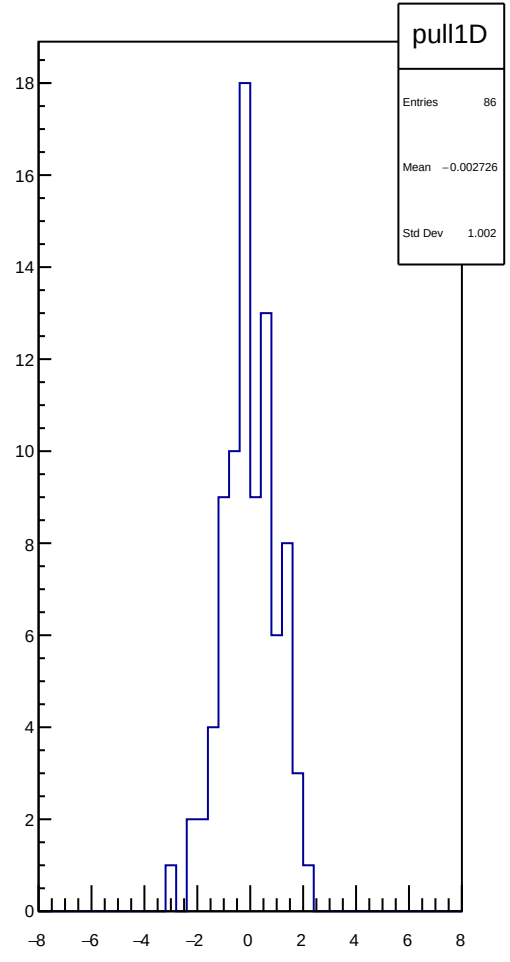

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 109.4 / 85
p0 1794 ± 1.383
1860
1840
1820
1800
1780
1760

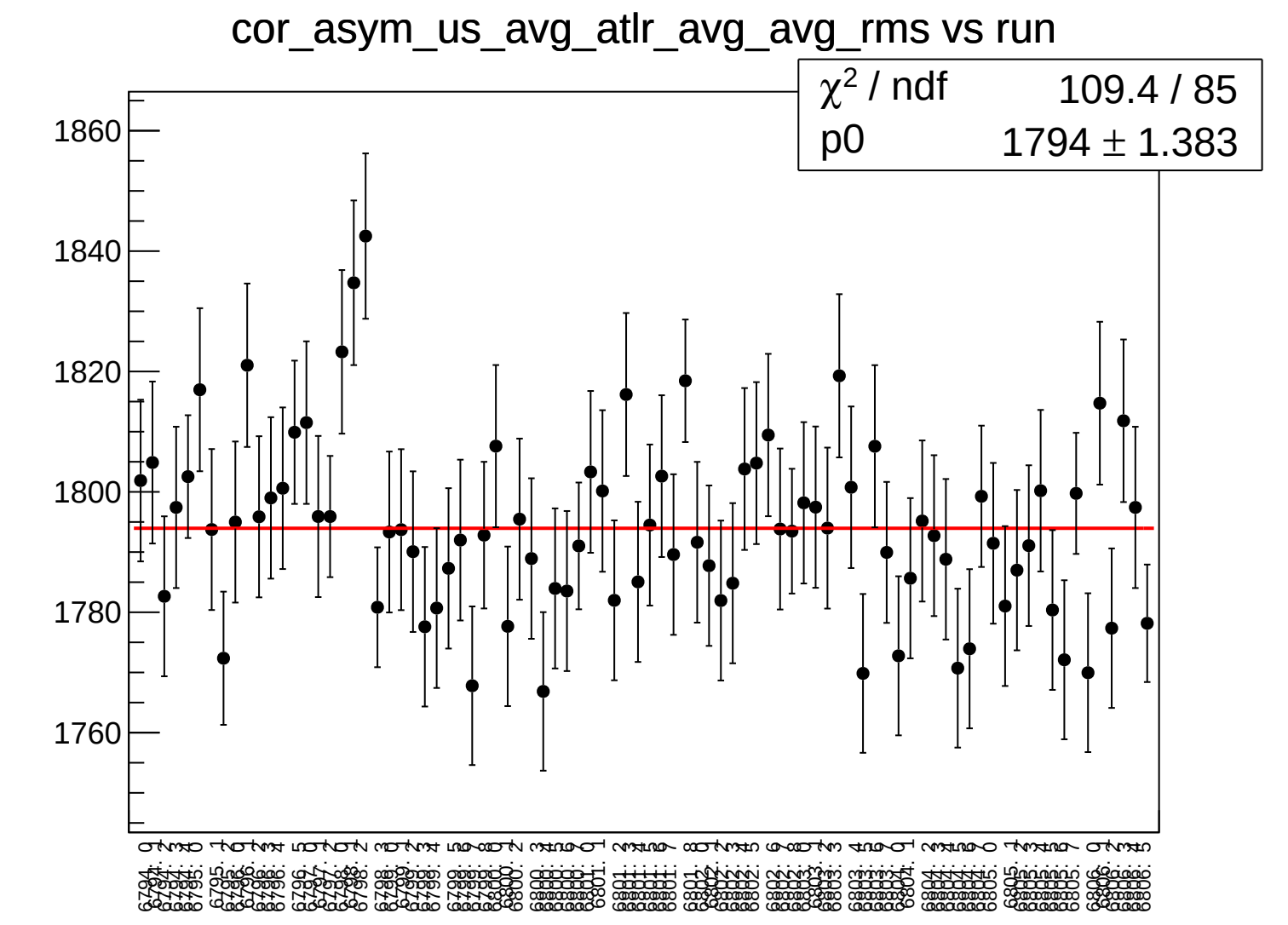

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 82.84 / 85
p0 −4382 ± 5255
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −85.62
Std Dev 0
3
2
1
0
−1
−2
−3

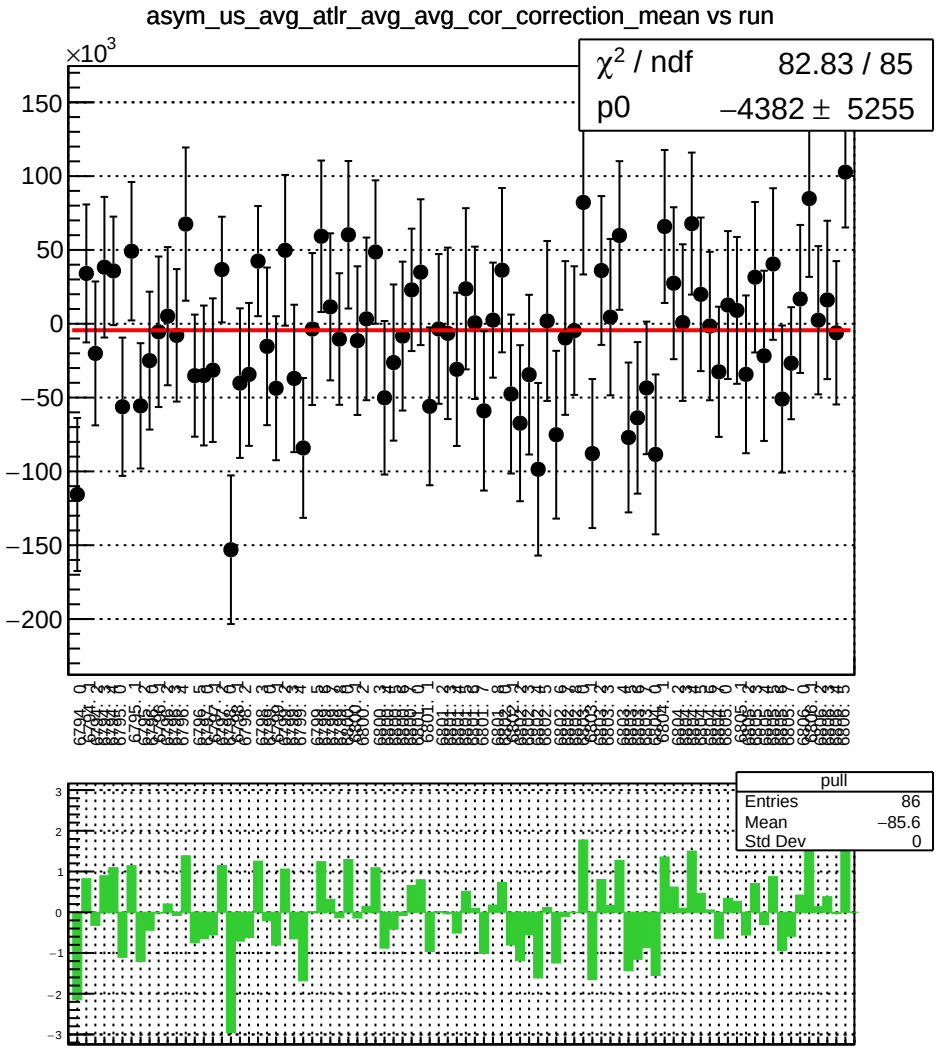

pull1D
Entries 86
Mean −0.02685
Std Dev 0.9811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

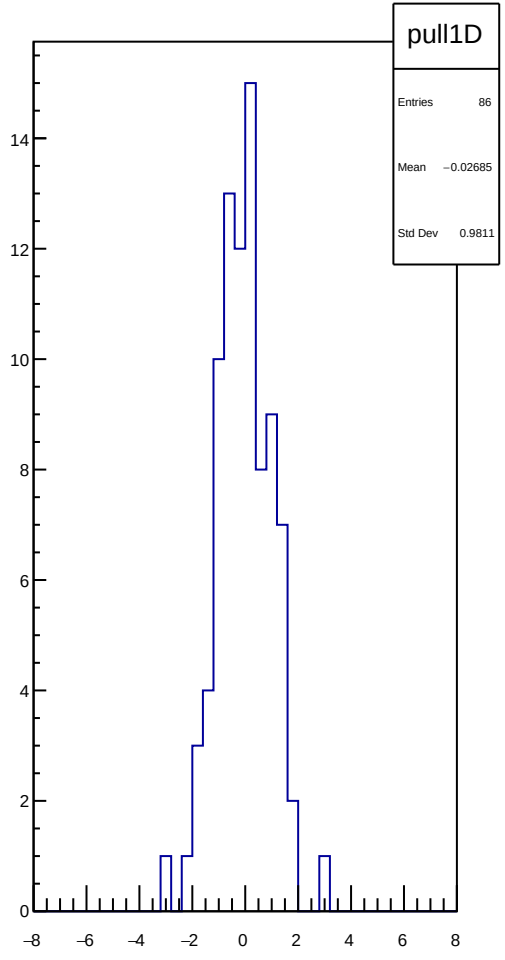

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 4490 / 85
p0 4813 ± 3.716
5600
5400
5200
5000
4800
4600
4400
4200

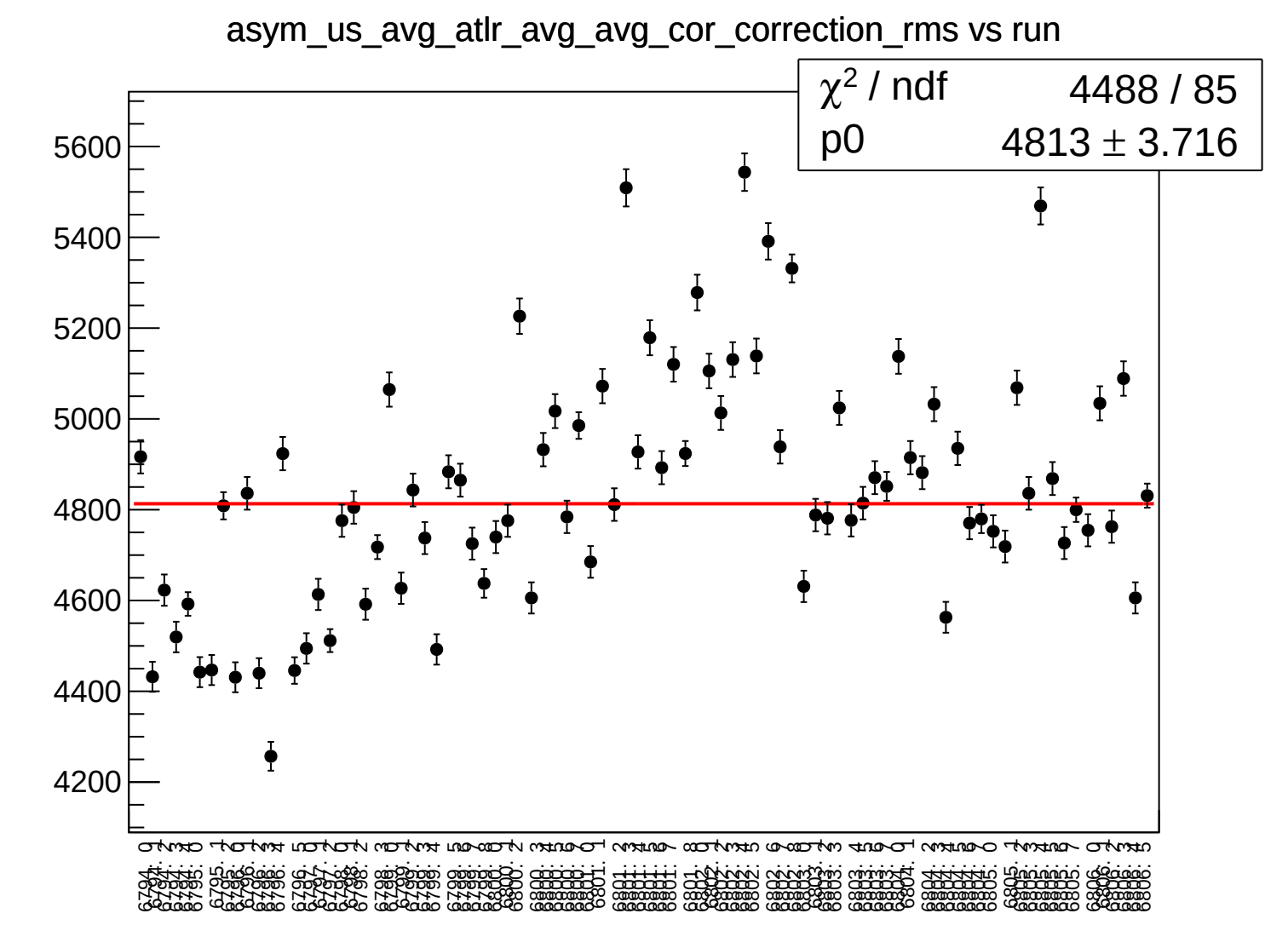

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.41 / 85
p0 288.7 ± 1956
pull
Entries 86
Mean 519.1
Std Dev 0

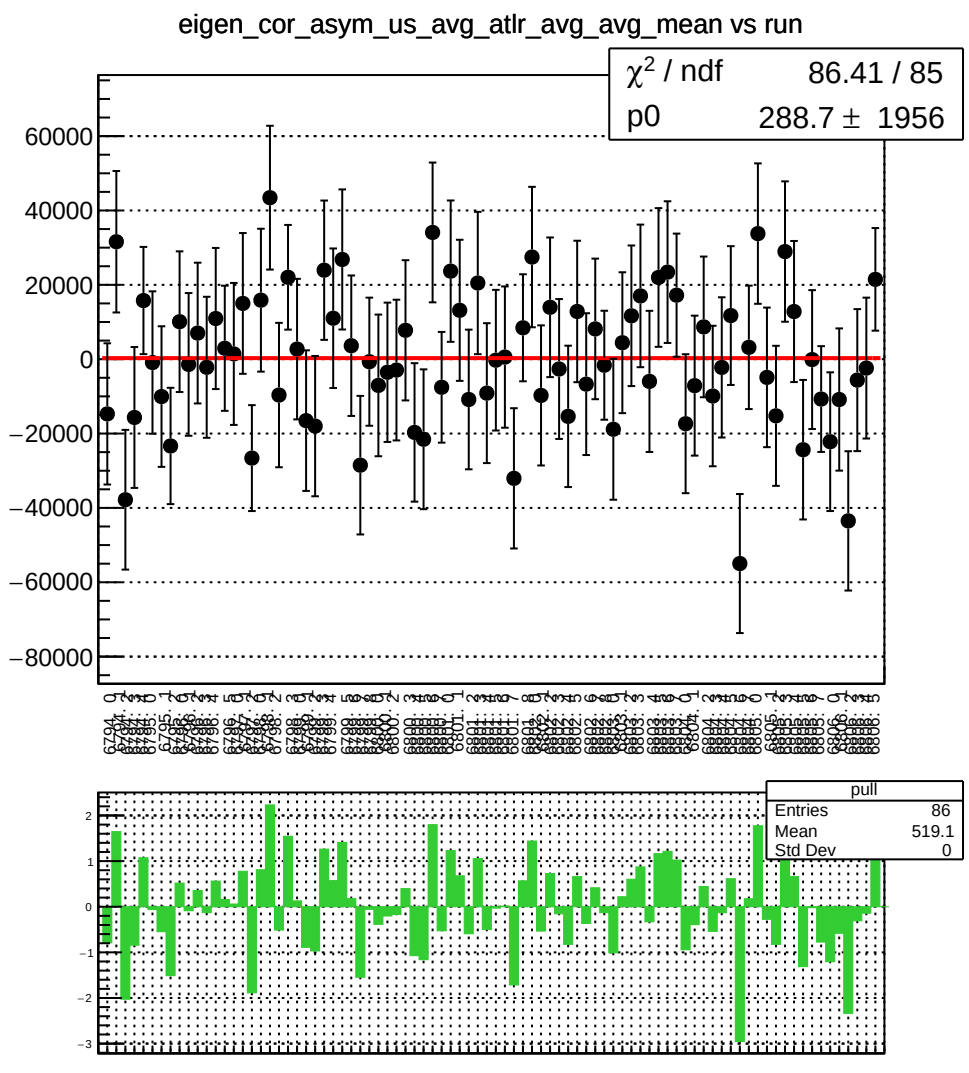

pull1D
Entries 86
Mean −0.002726
Std Dev 1.002

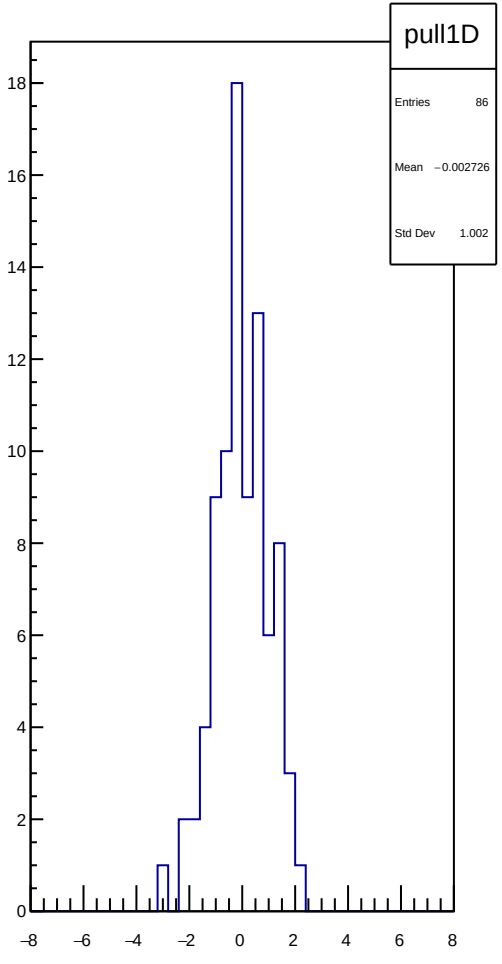

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 109.4 / 85
p0 1794 ± 1.383
1860
1840
1820
1800
1780
1760

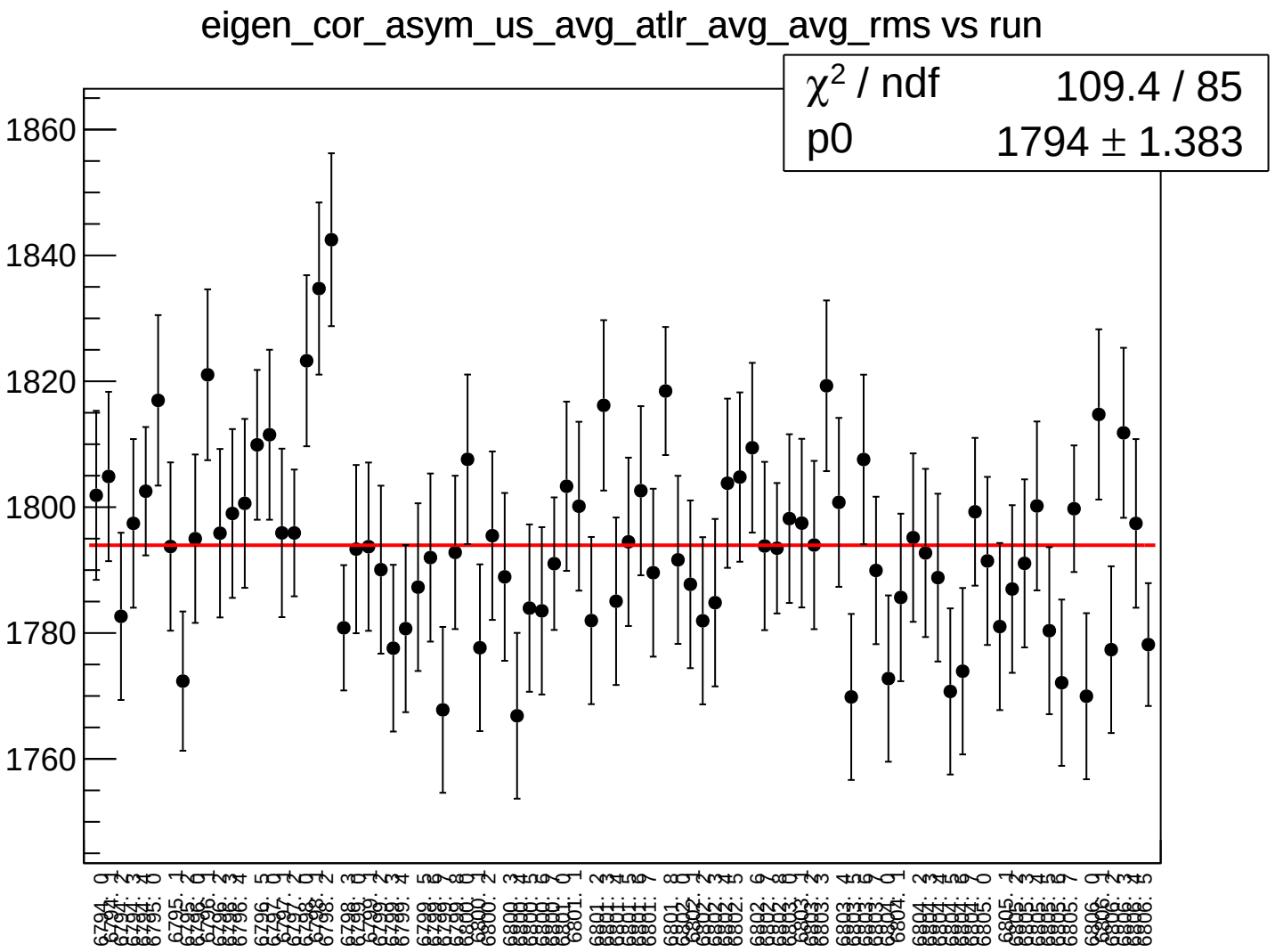

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 82.83 / 85
p0 −4382 ± 5255
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −85.6
Std Dev 0
3
2
1
0
−1
−2
−3

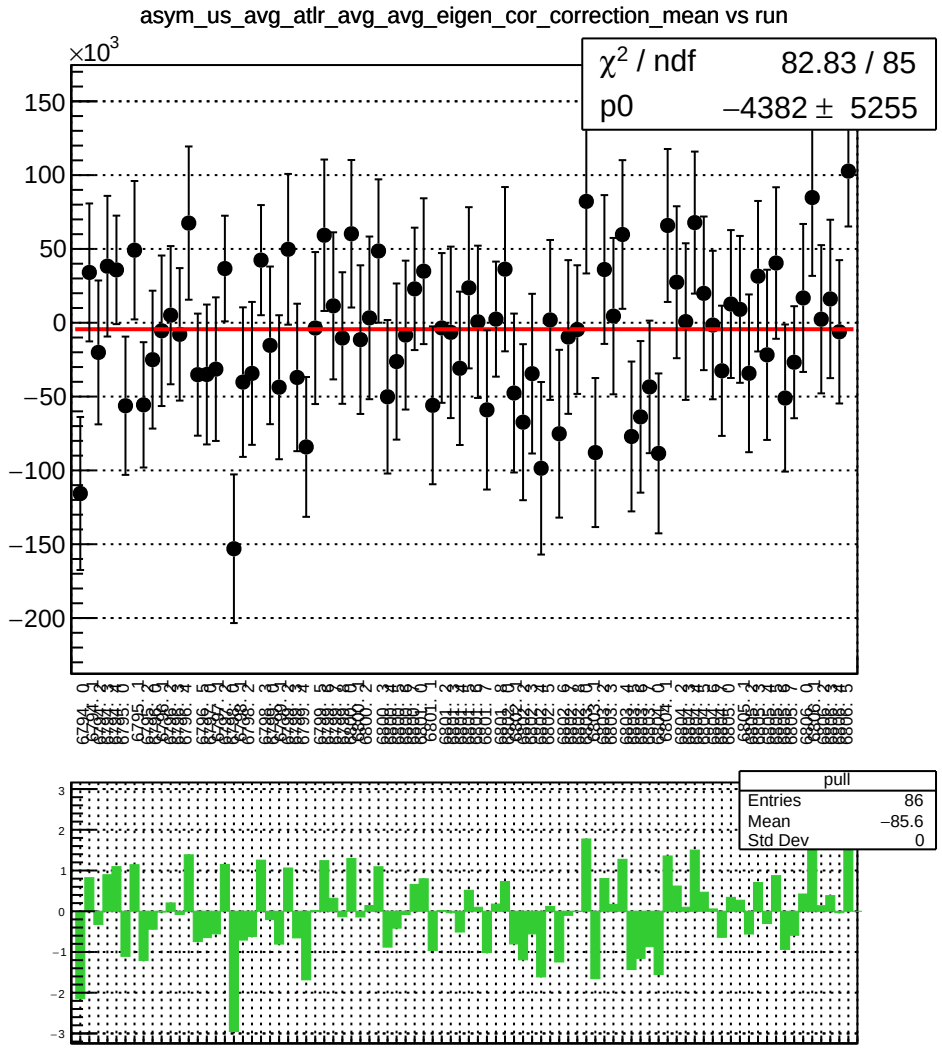

pull1D
Entries 86
Mean −0.02685
Std Dev 0.9811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

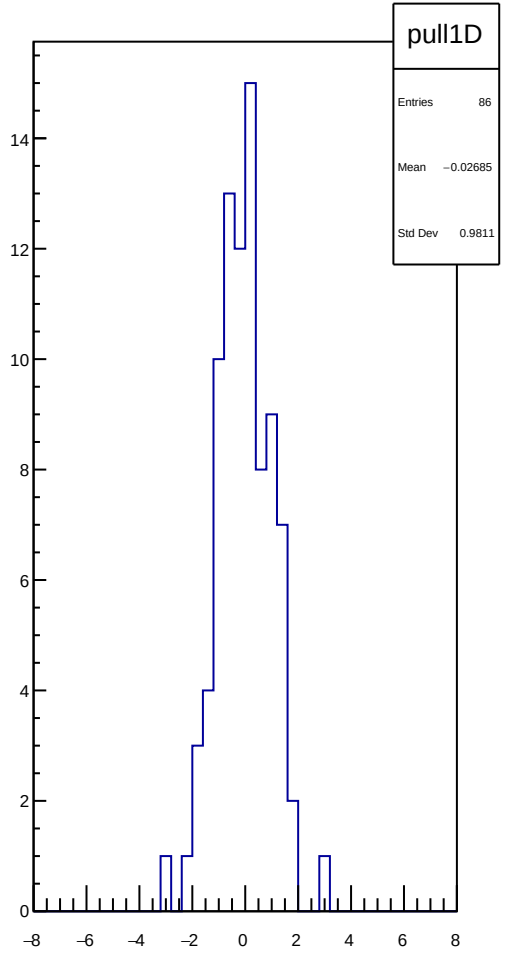

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 4488 / 85
p0 4813 ± 3.716
5600
5400
5200
5000
4800
4600
4400
4200

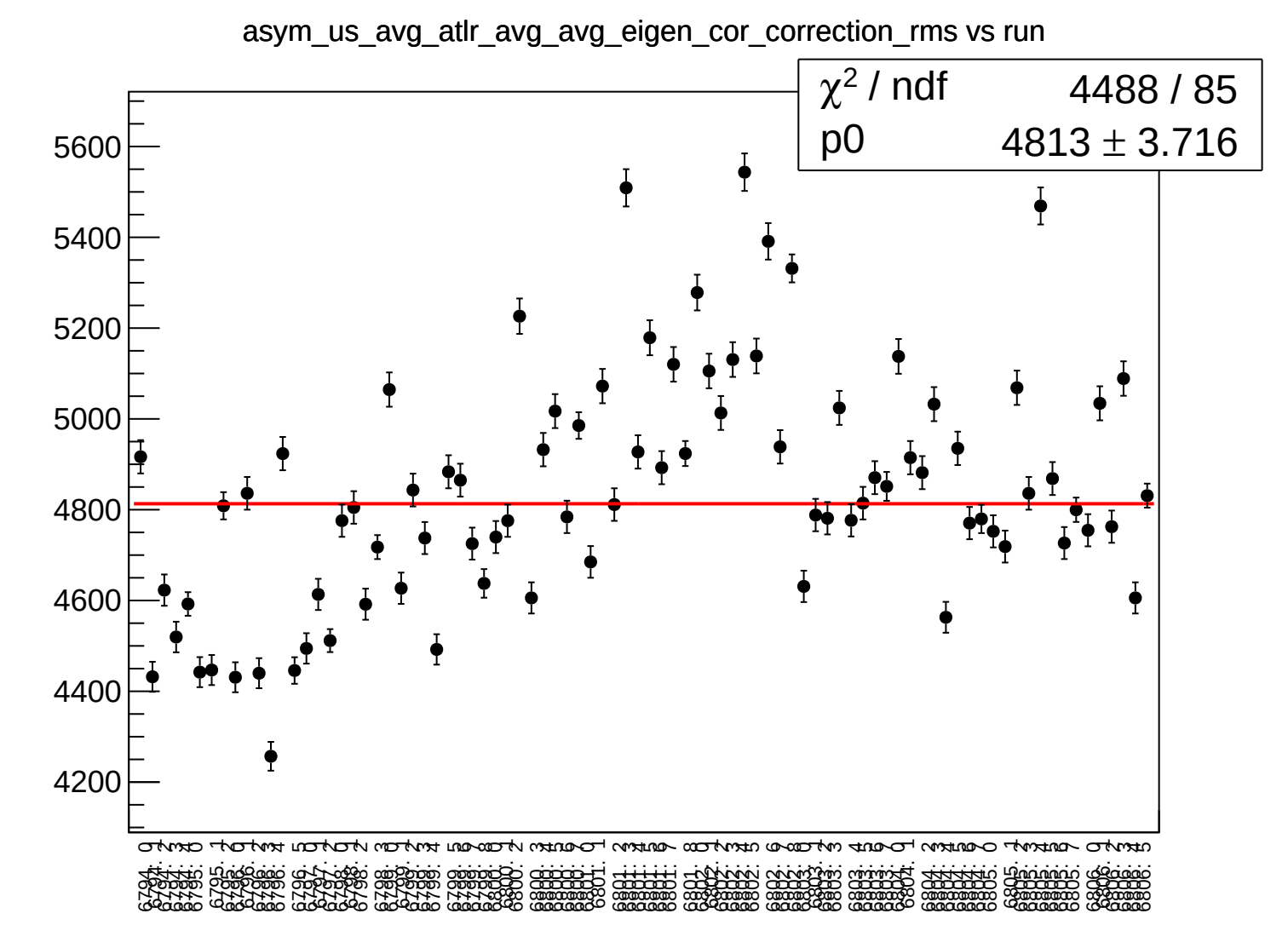

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.41 / 85
p0 288.7 ± 1956
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean 519.1
Std Dev 0
2
1
0
−1
−2
−3

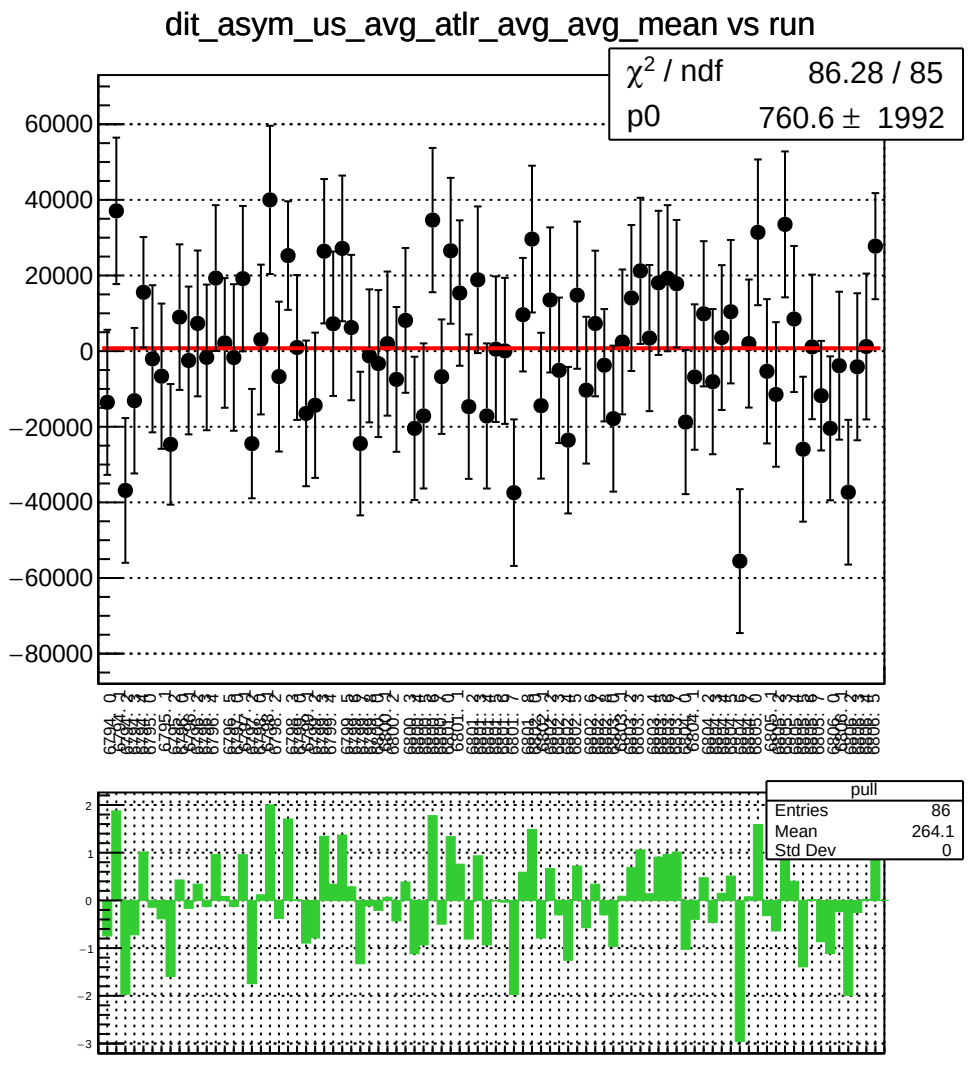

pull1D
Entries 86
Mean −0.002726
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

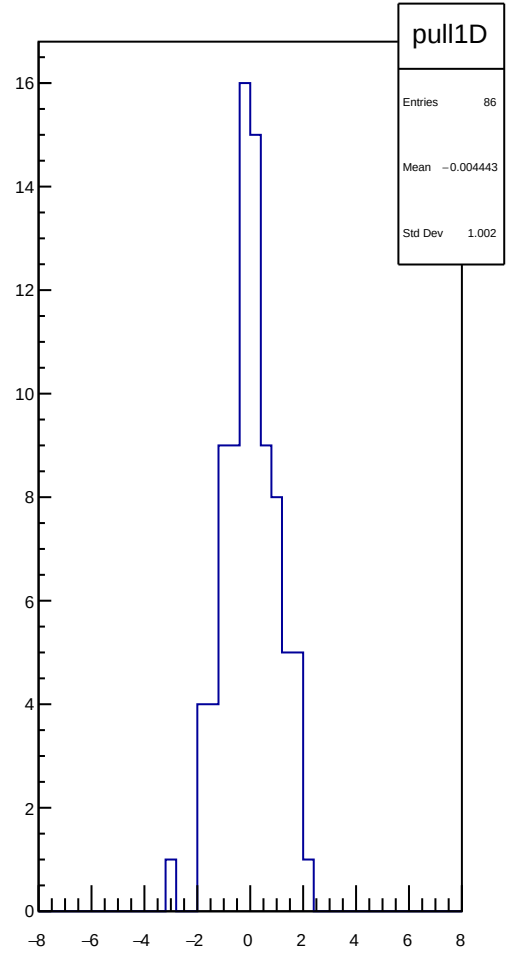

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 109.4 / 85
p0 1794 ± 1.383
1860
1840
1820
1800
1780
1760

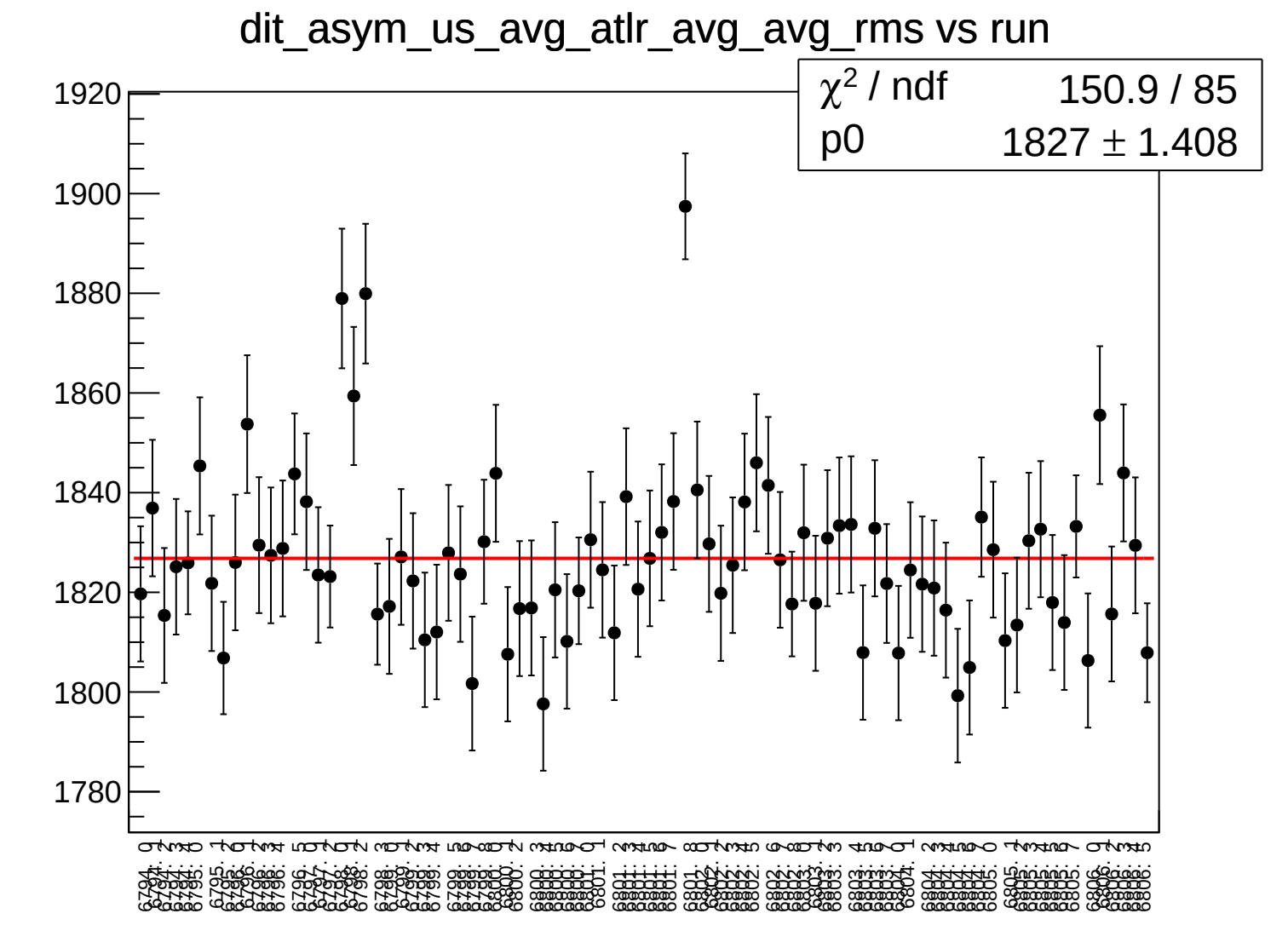

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 82.83 / 85
p0 −4382 ± 5255
150
100
50
0
−50
−100
−150
−200
pull
Entries 86
Mean −85.6
Std Dev 0
3
2
1
0
−1
−2
−3

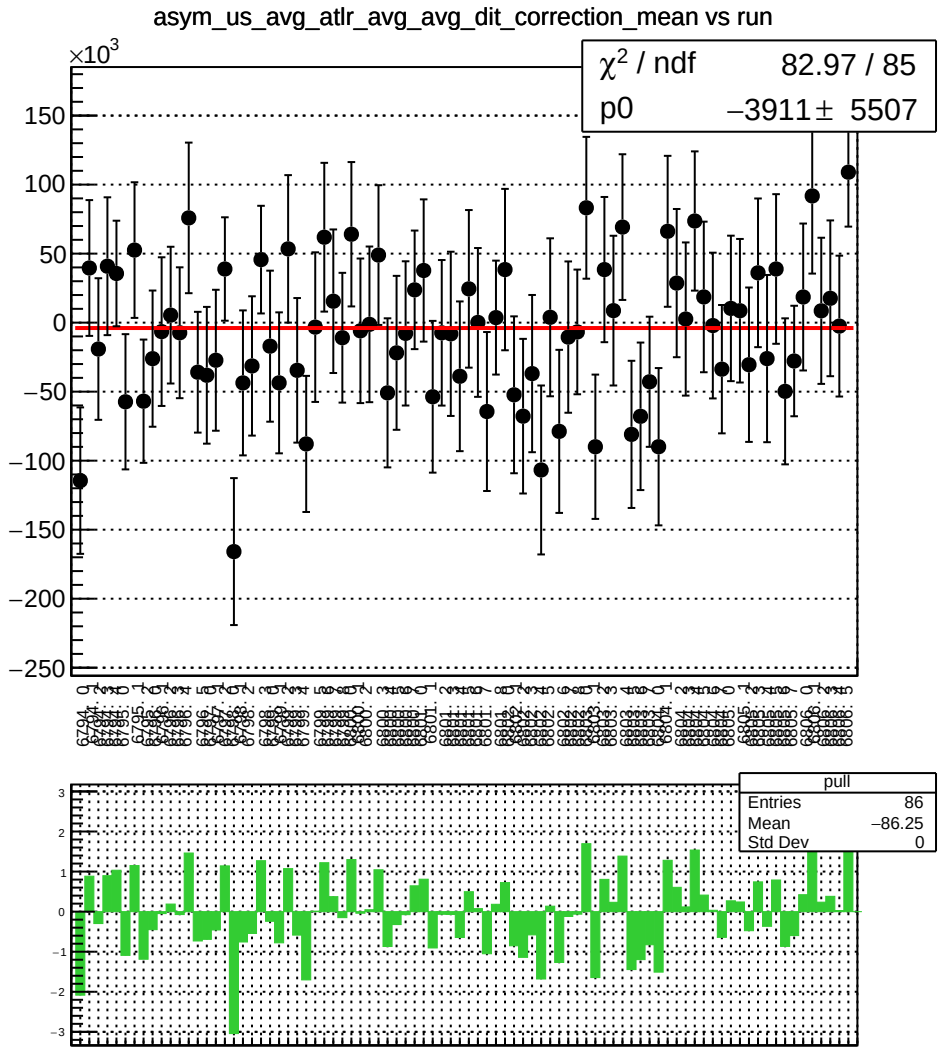

pull1D
Entries 86
Mean −0.02685
Std Dev 0.9811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

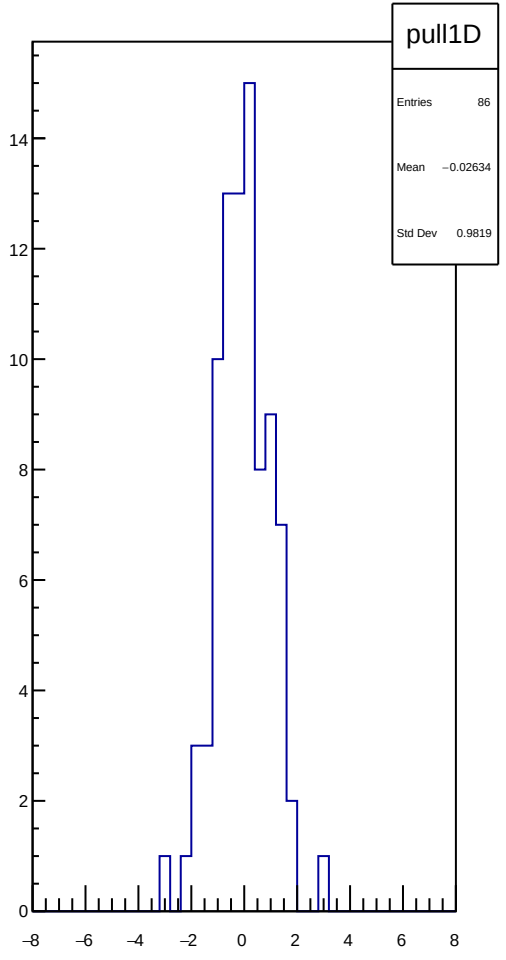

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 4488 / 85
p0 4813 ± 3.716
5600
5400
5200
5000
4800
4600
4400
4200

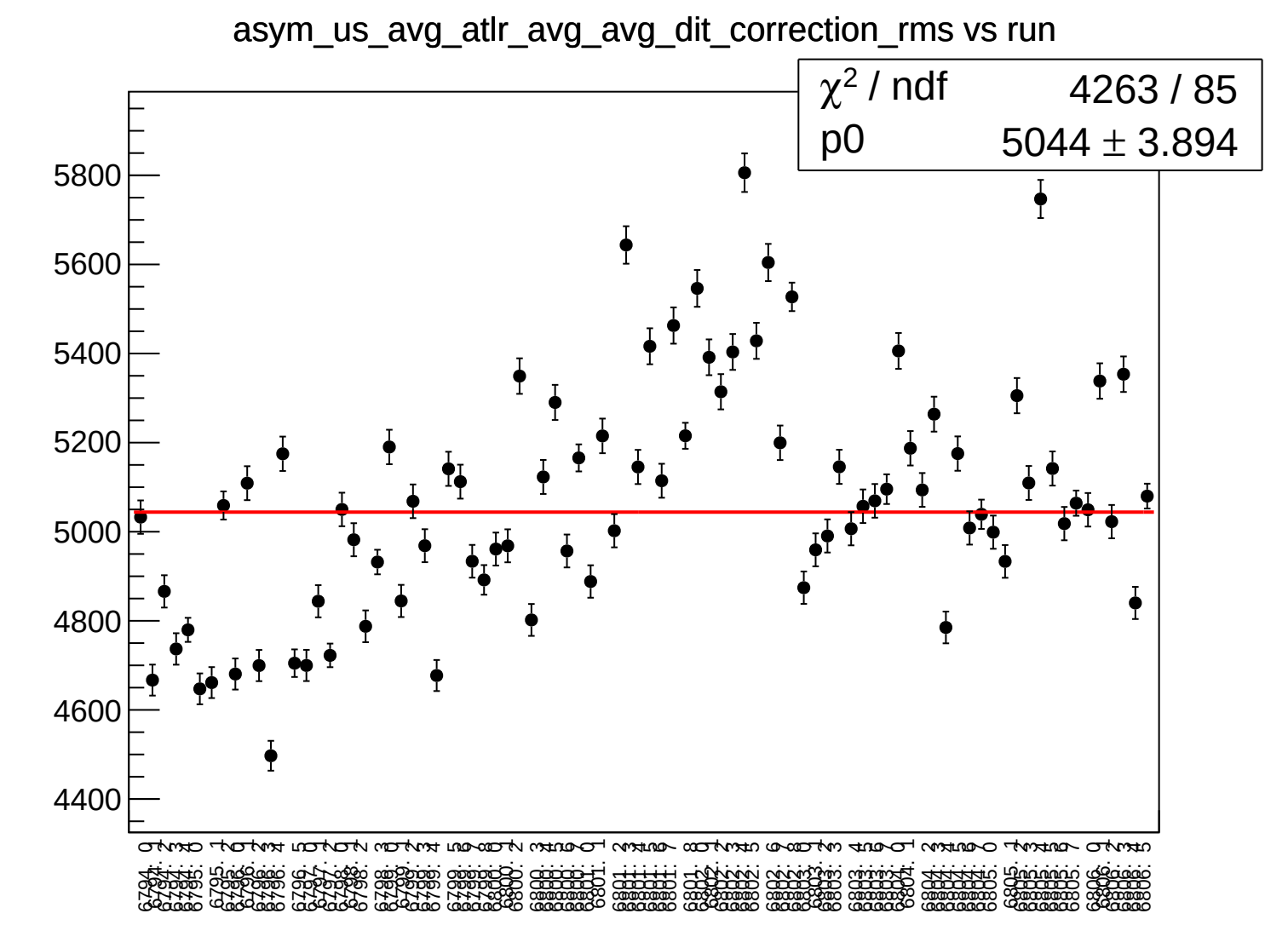

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.28 / 85
p0 760.6 ± 1992
pull
Entries 86
Mean 264.1
Std Dev 0

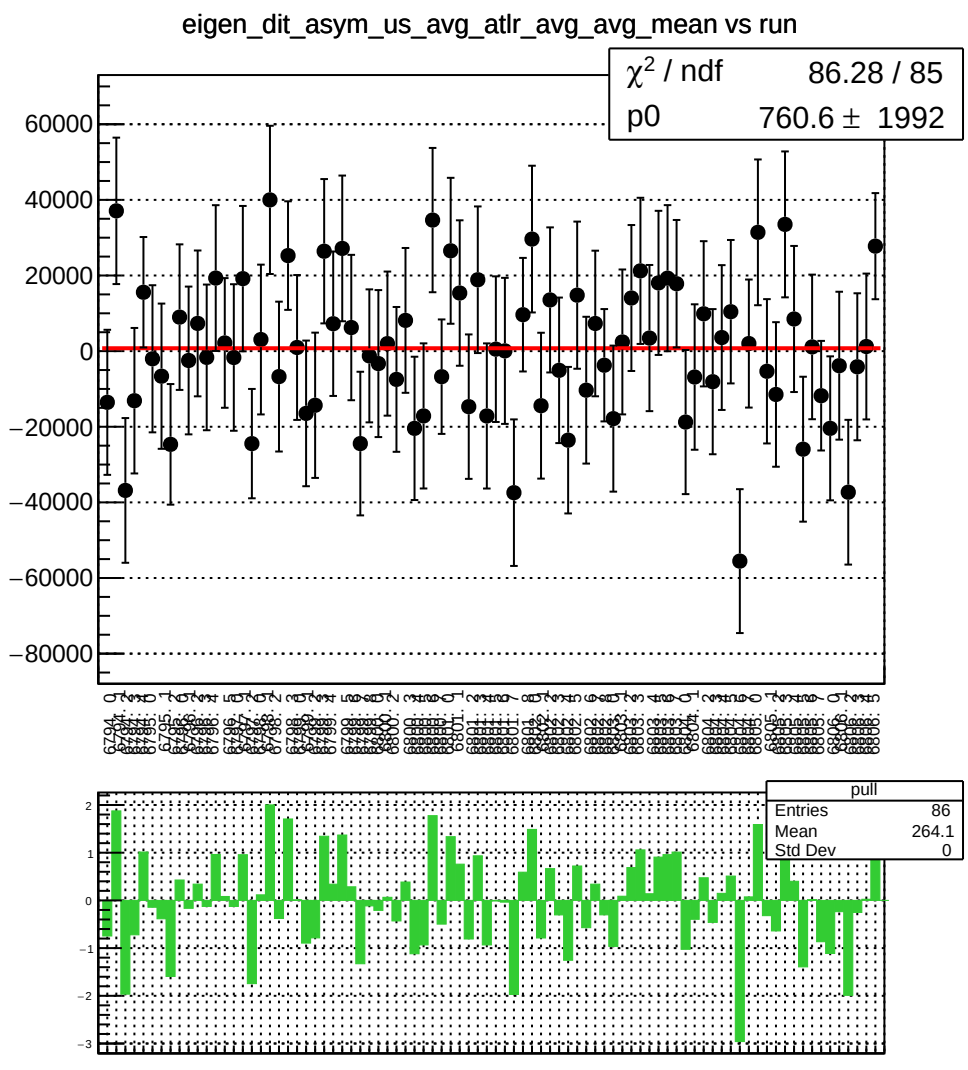

pull1D
Entries 86
Mean −0.004443
Std Dev 1.002

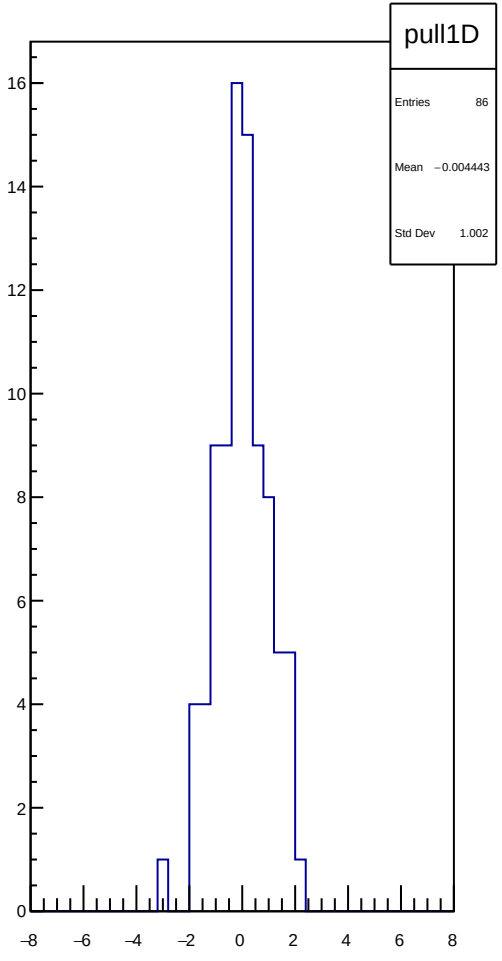

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 150.9 / 85
p0 1827 ± 1.408
1920
1900
1880
1860
1840
1820
1800
1780

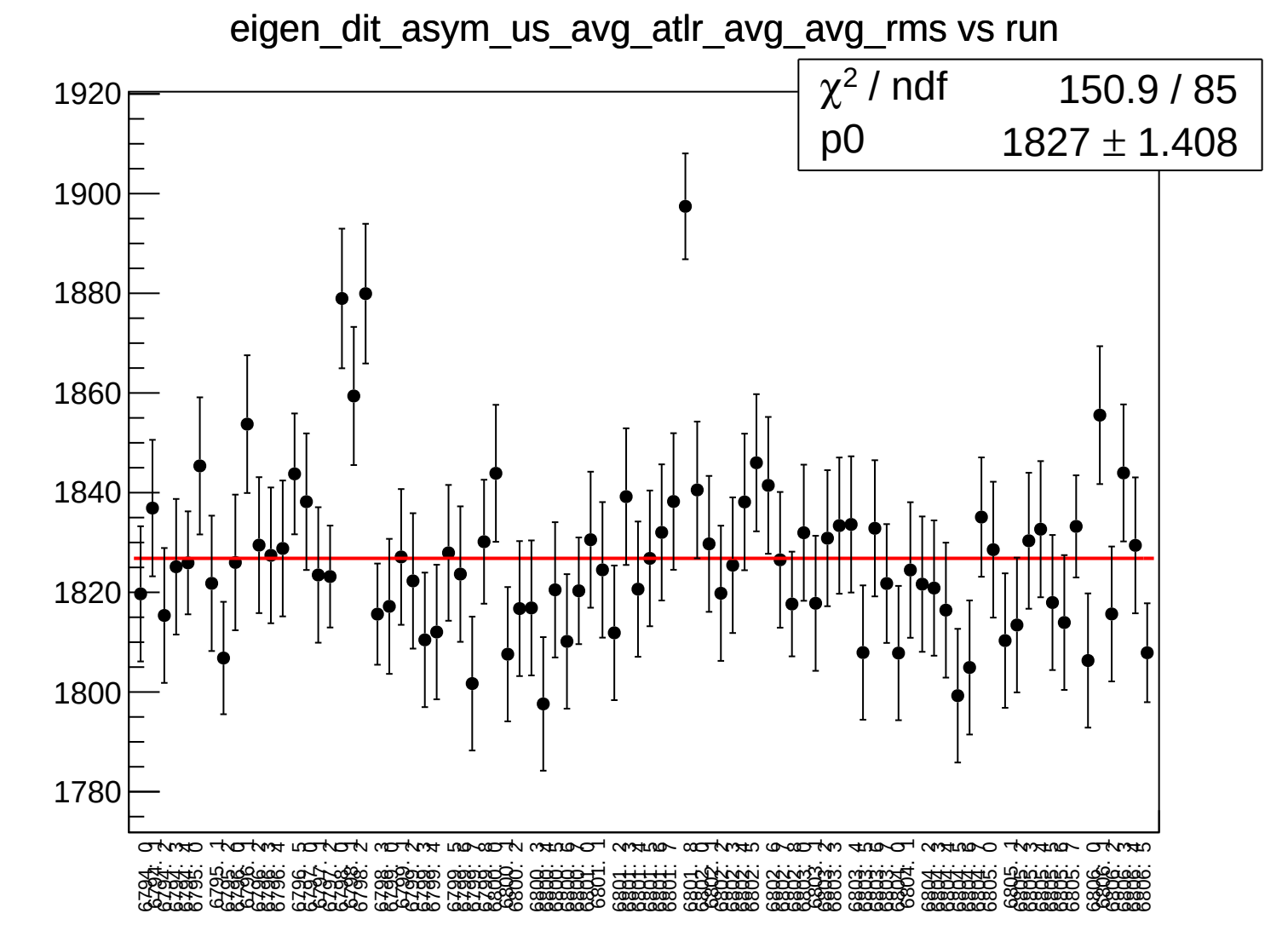

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.97 / 85
p0 −3911 ± 5507
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −86.25
Std Dev 0
3
2
1
0
−1
−2
−3

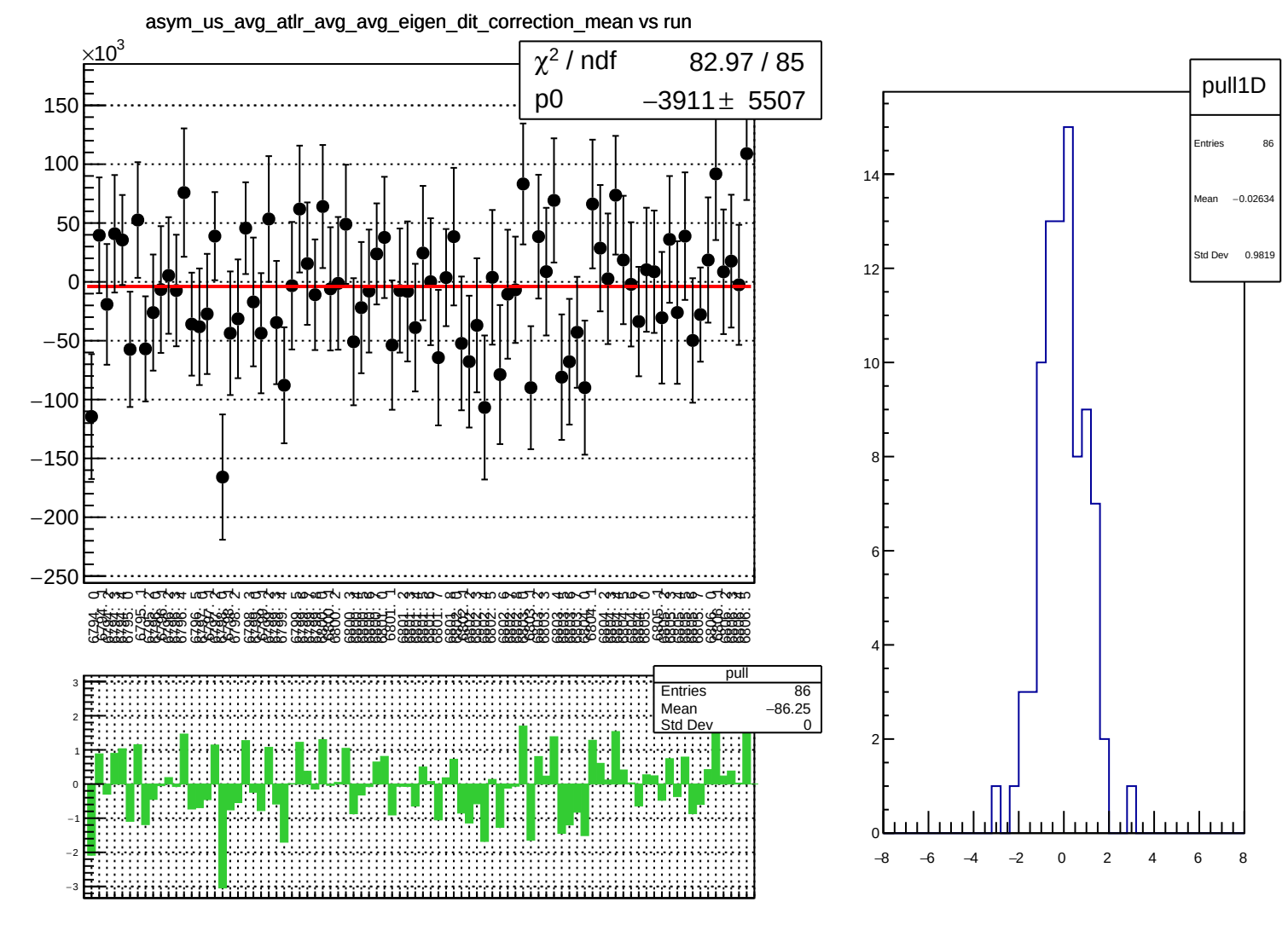

pull1D
Entries 86
Mean −0.02634
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

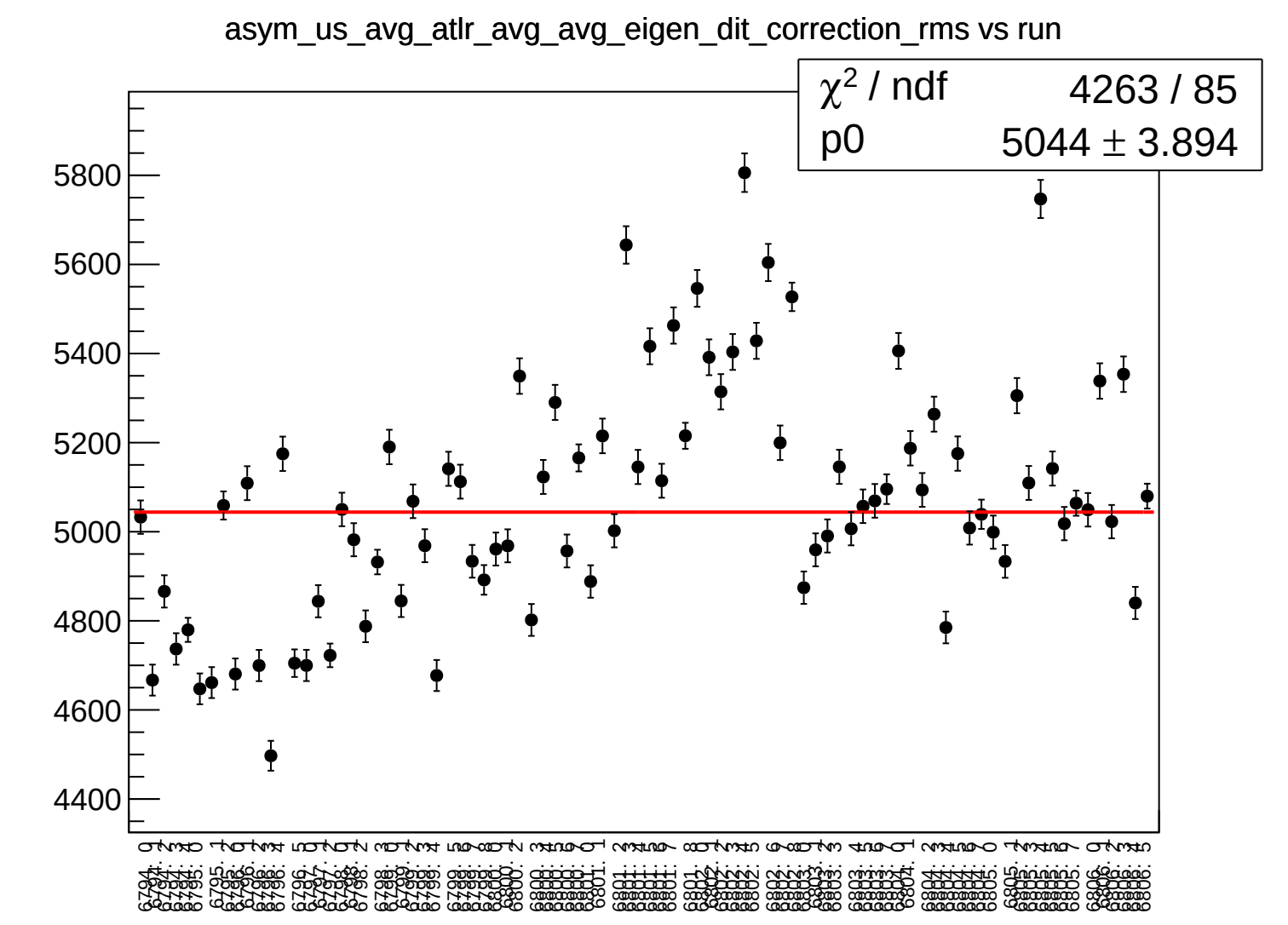

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 4263 / 85
p0 5044 ± 3.894
5800
5600
5400
5200
5000
4800
4600
4400

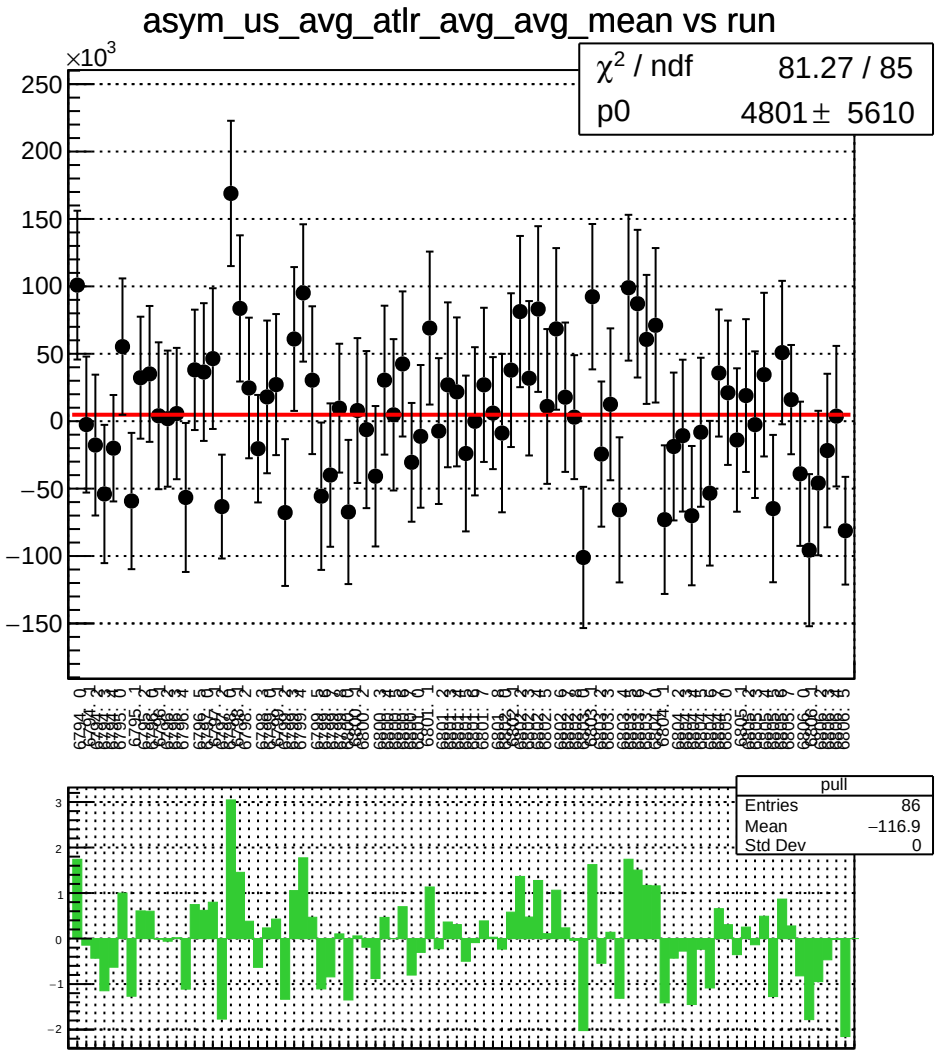

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 86.28 / 85
p0 760.6 ± 1992
pull
Entries 86
Mean 264.1
Std Dev 0

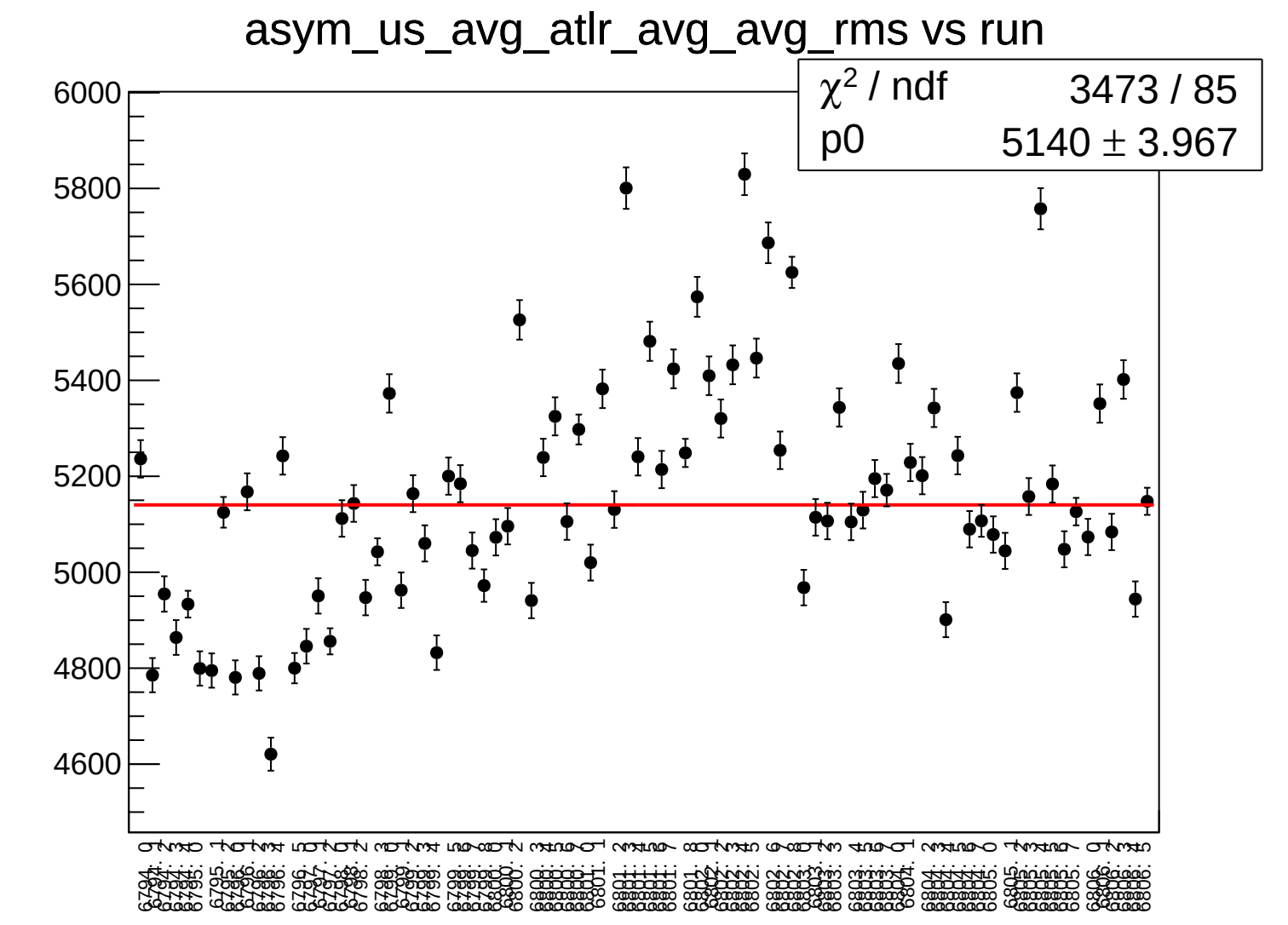

pull1D
Entries 86
Mean −0.004443
Std Dev 1.002

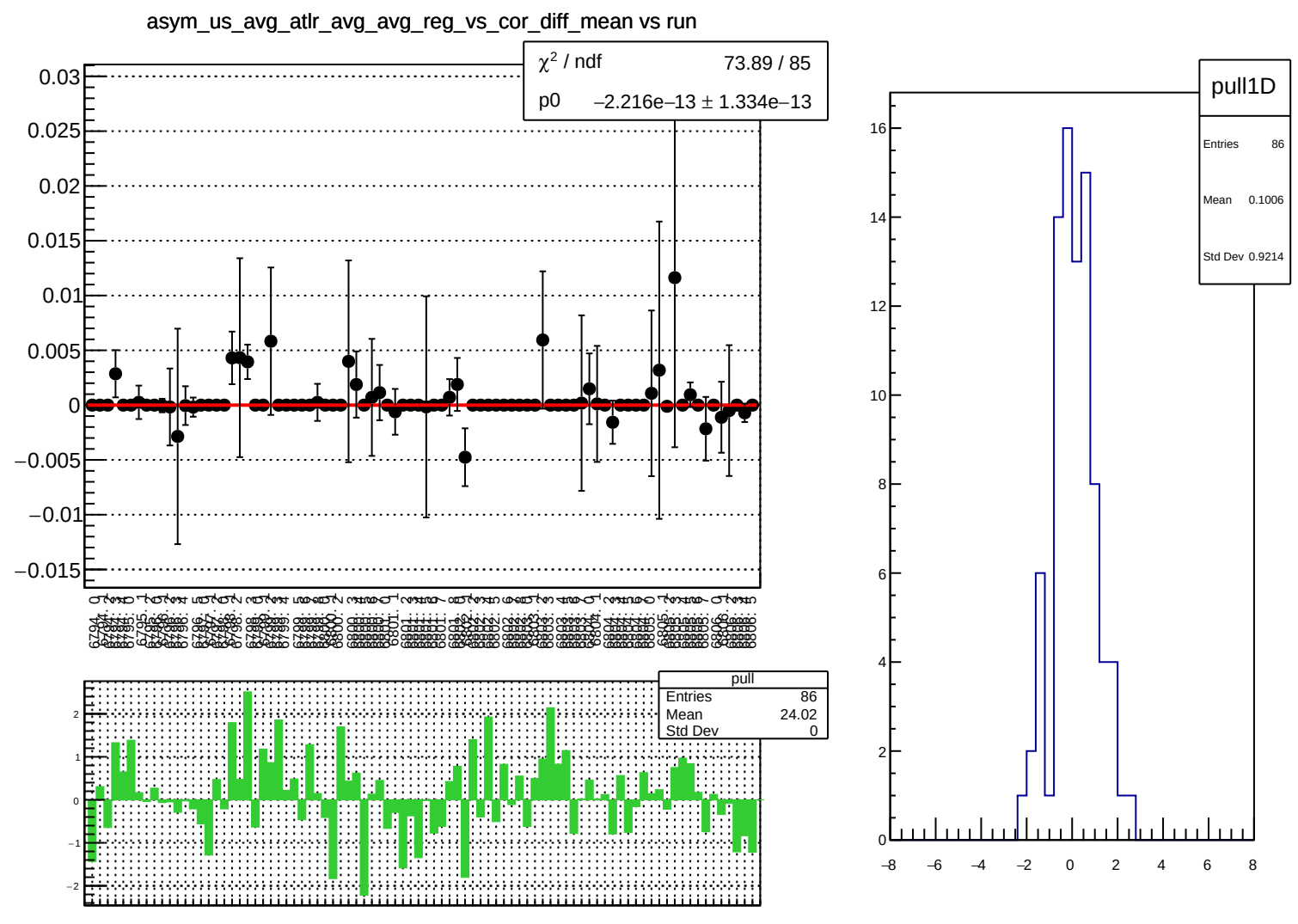

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 150.9 / 85
p0 1827 ± 1.408
1920
1900
1880
1860
1840
1820
1800
1780

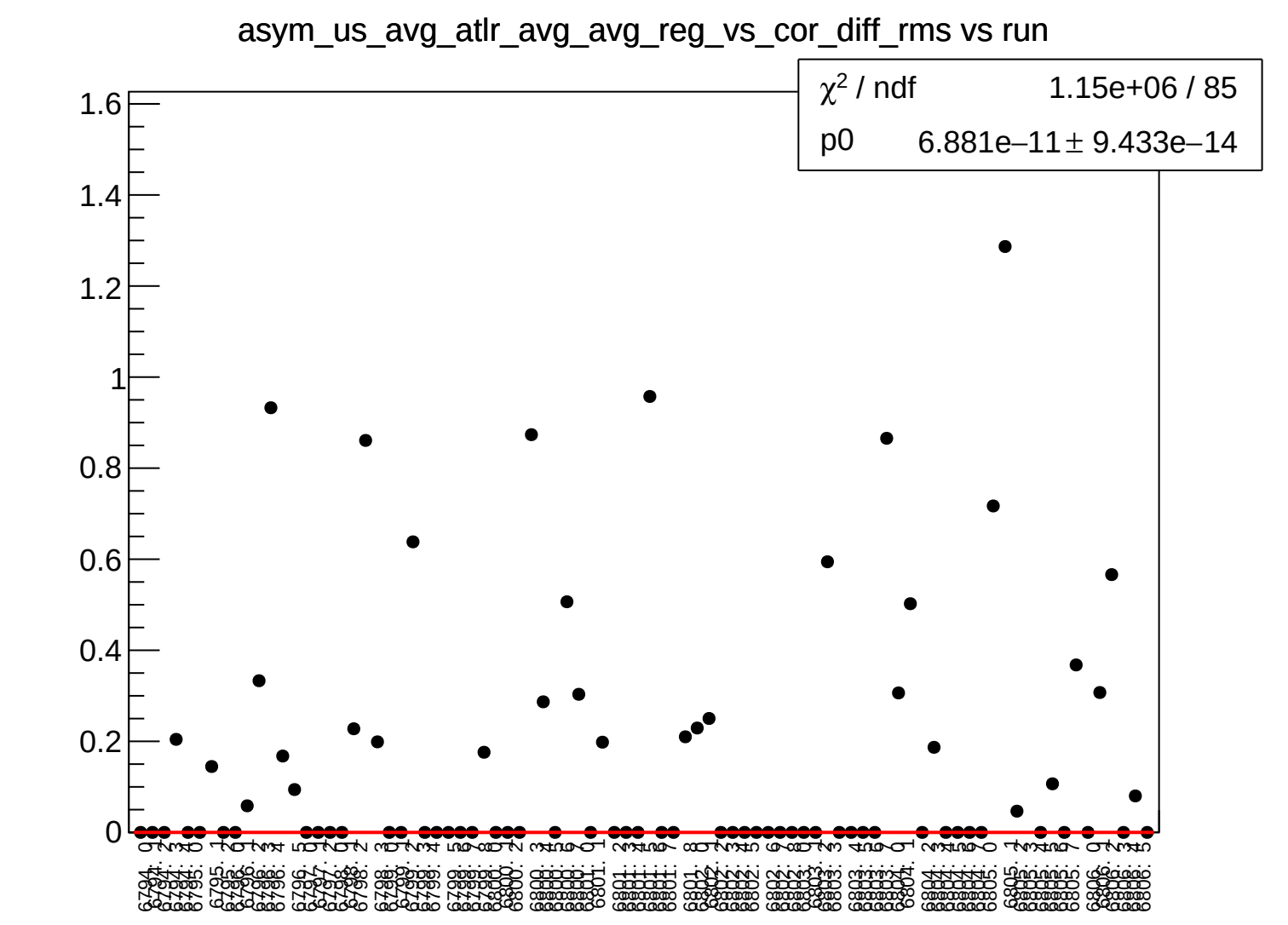

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.97 / 85
p0 −3911 ± 5507
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 86
Mean −86.25
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.02634
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

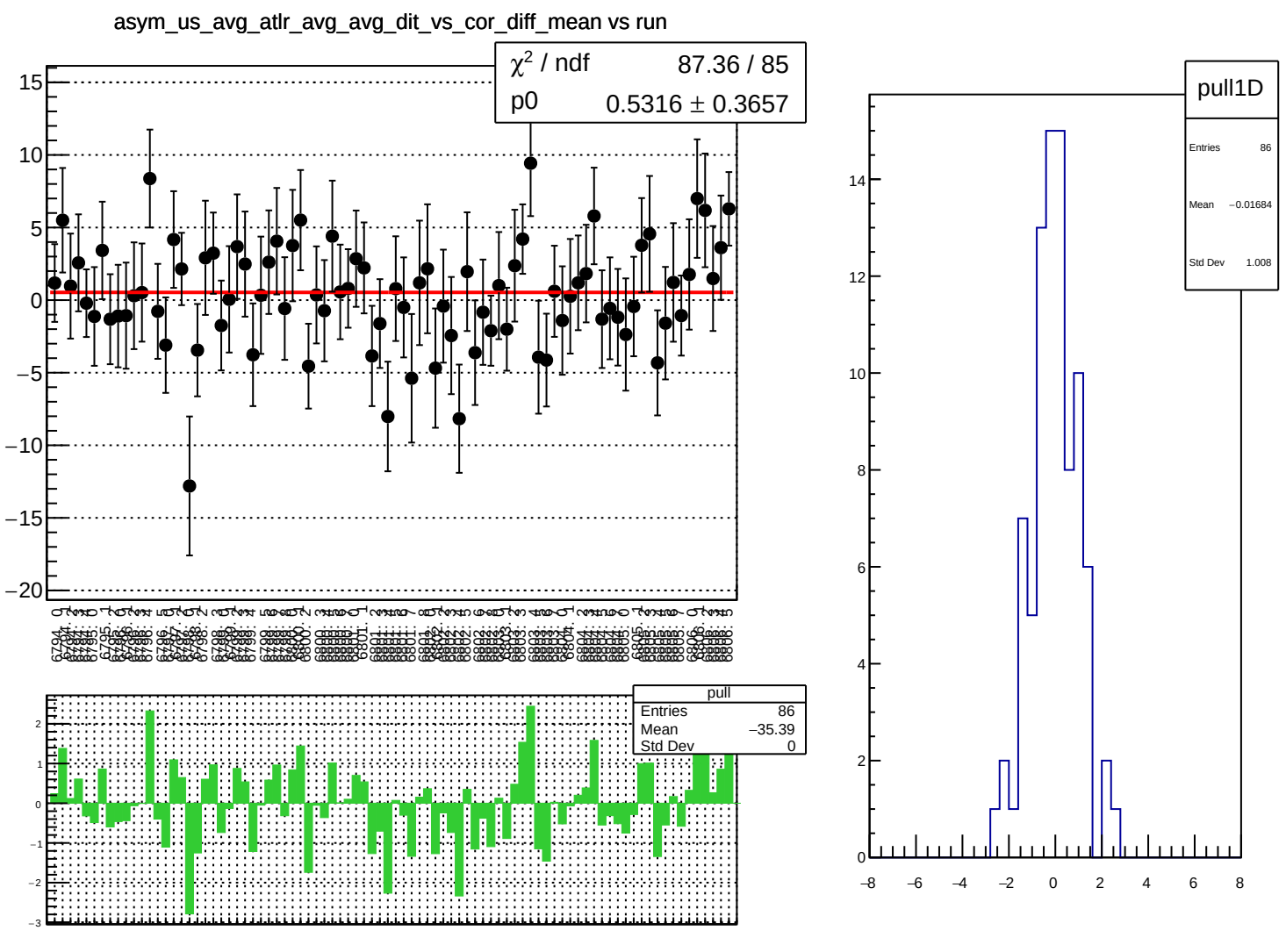

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4263 / 85
p0 5044 ± 3.894
5800
5600
5400
5200
5000
4800
4600
4400

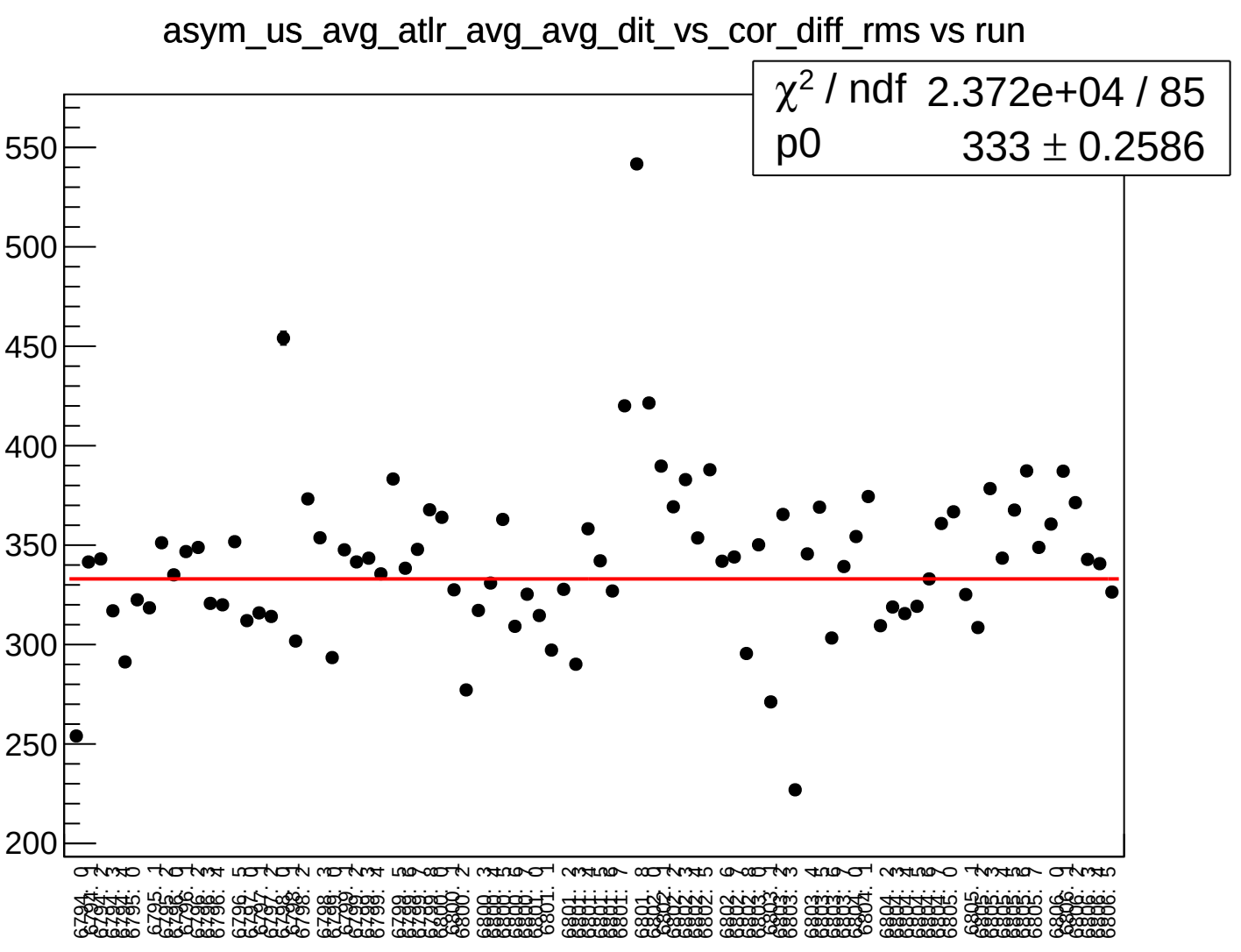

asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 81.27 / 85
p0 4801 ± 5610
pull
Entries 86
Mean −116.9
Std Dev 0
pull1D
Entries 86
Mean 0.0231
Std Dev 0.9718

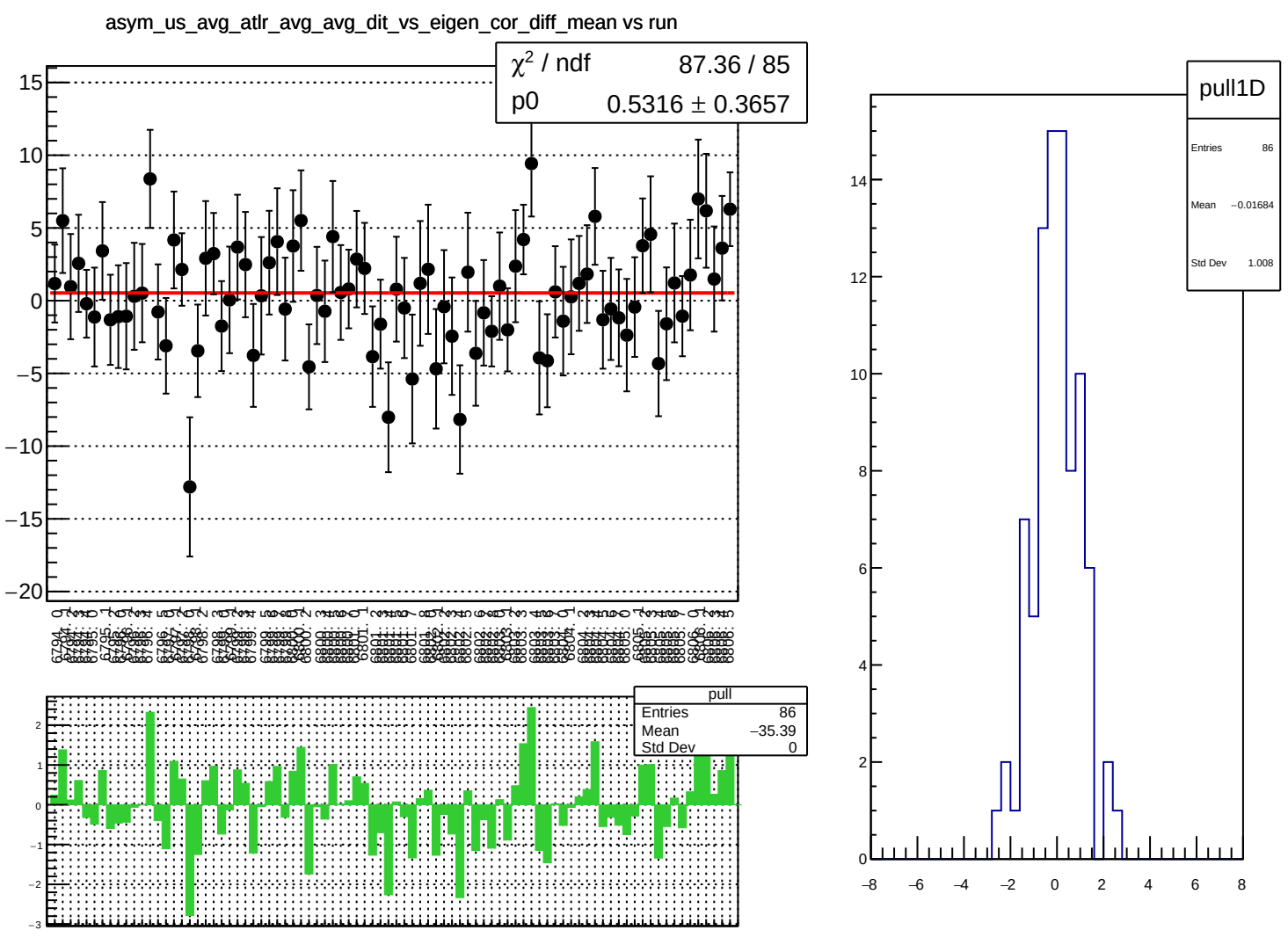

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 3473 / 85
p0 5140 ± 3.967
6000
5800
5600
5400
5200
5000
4800
4600

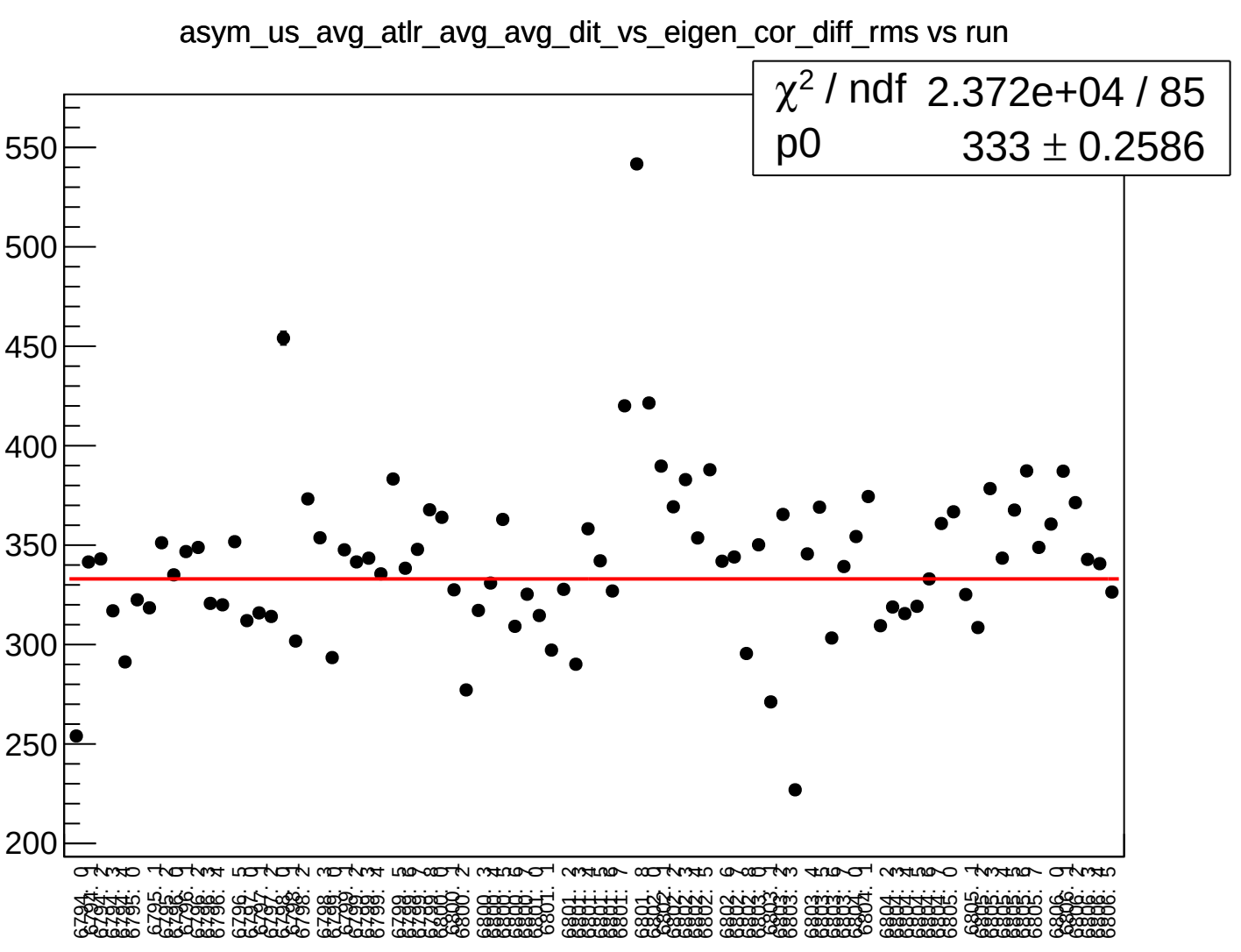

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 73.89 / 85
p0 −2.216e−13 ± 1.334e−13
pull
Entries 86
Mean 24.02
Std Dev 0
pull1D
Entries 86
Mean 0.1006
Std Dev 0.9214

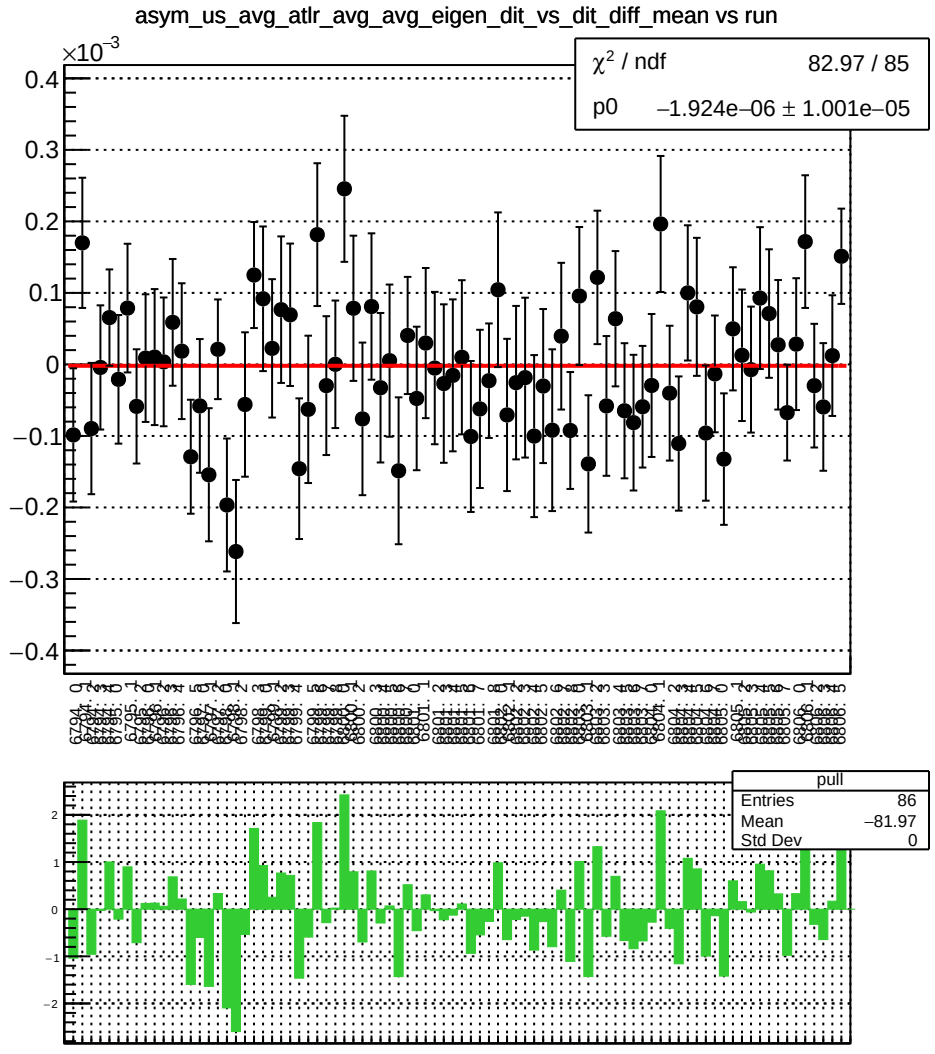

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 85
p0 6.881e−11 ± 9.433e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

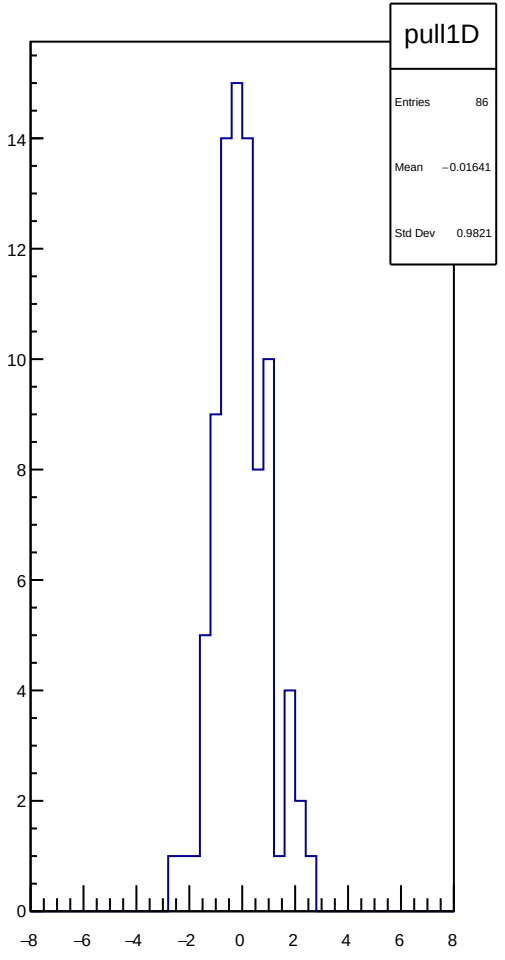

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 85
p0 0.5316 ± 0.3657
pull
Entries 86
Mean −35.39
Std Dev 0
pull1D
Entries 86
Mean −0.01684
Std Dev 1.008

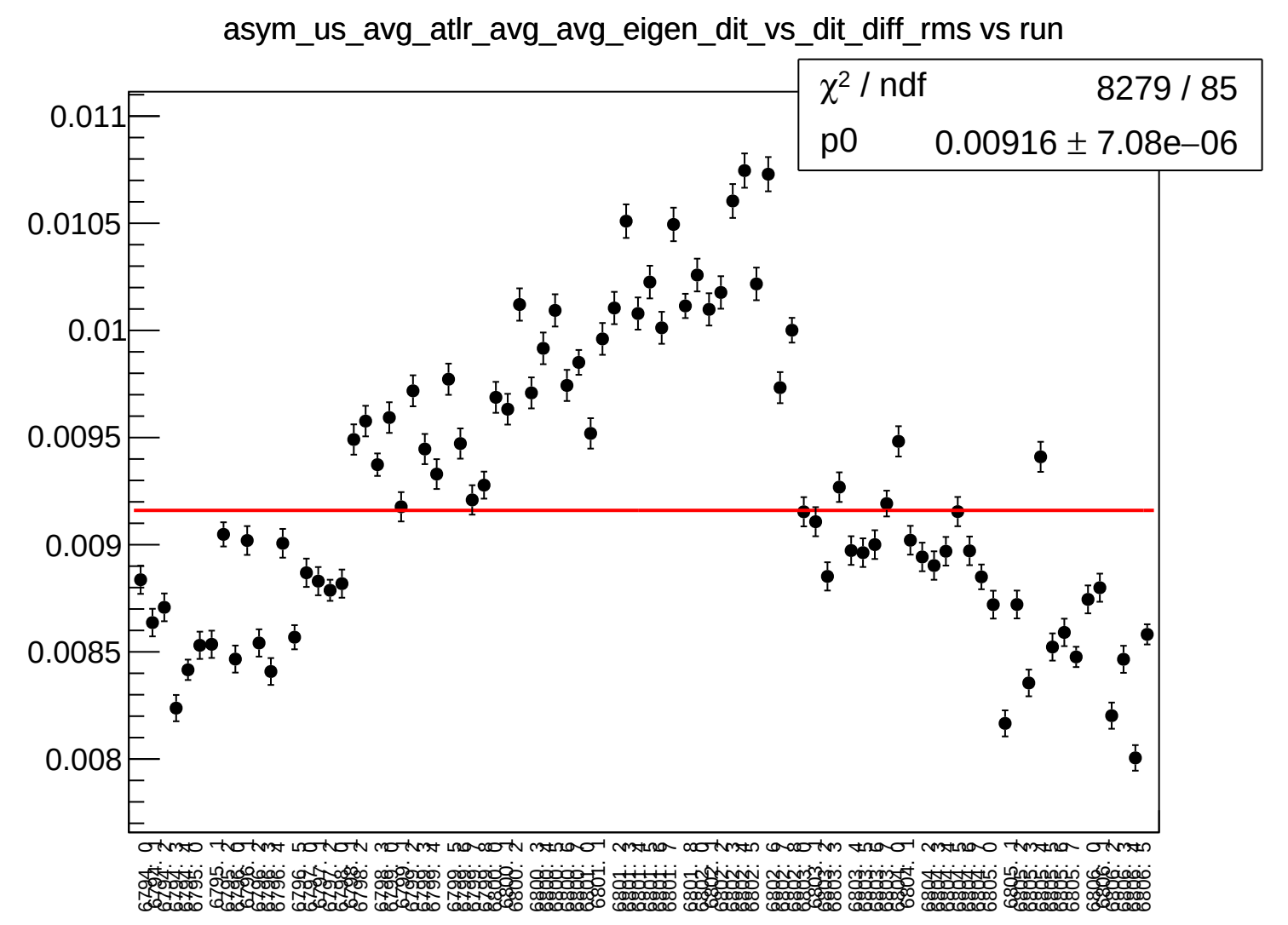

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.372e+04 / 85
p0 333 ± 0.2586
550
500
450
400
350
300
250
200

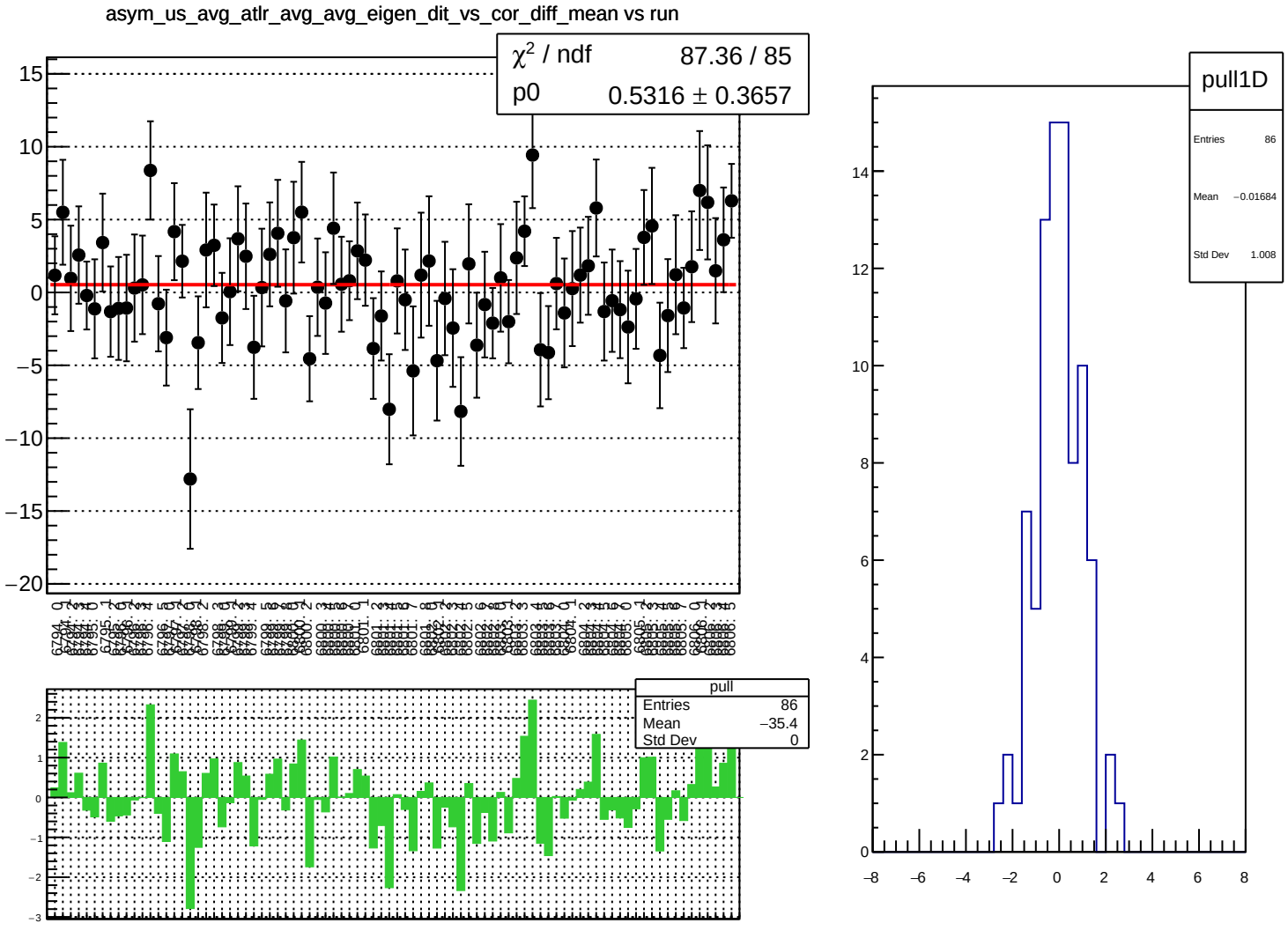

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.36 / 85
p0 0.5316 ± 0.3657
pull
Entries 86
Mean −35.39
Std Dev 0
pull1D
Entries 86
Mean −0.01684
Std Dev 1.008

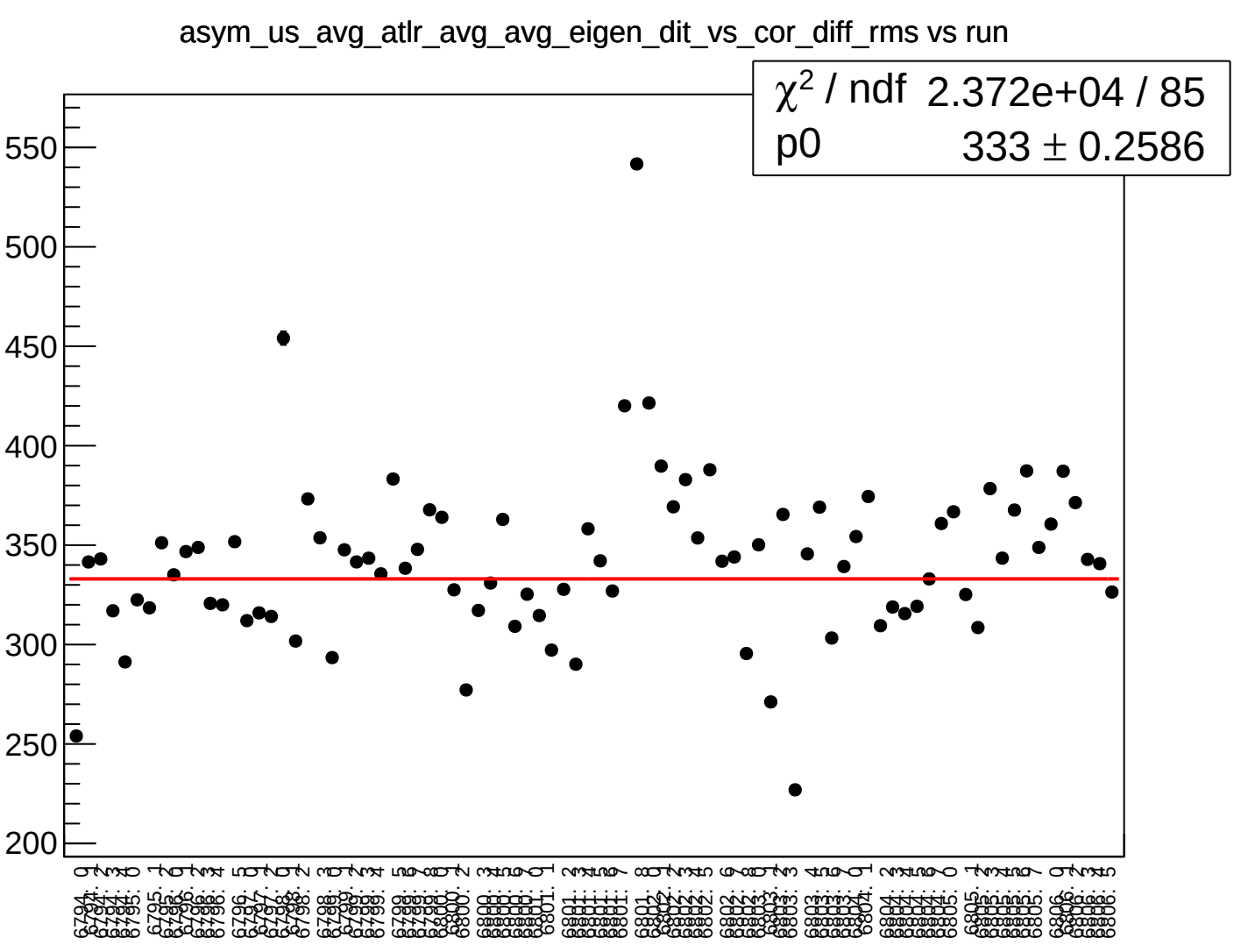

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.372e+04 / 85
p0 333 ± 0.2586
550
500
450
400
350
300
250
200

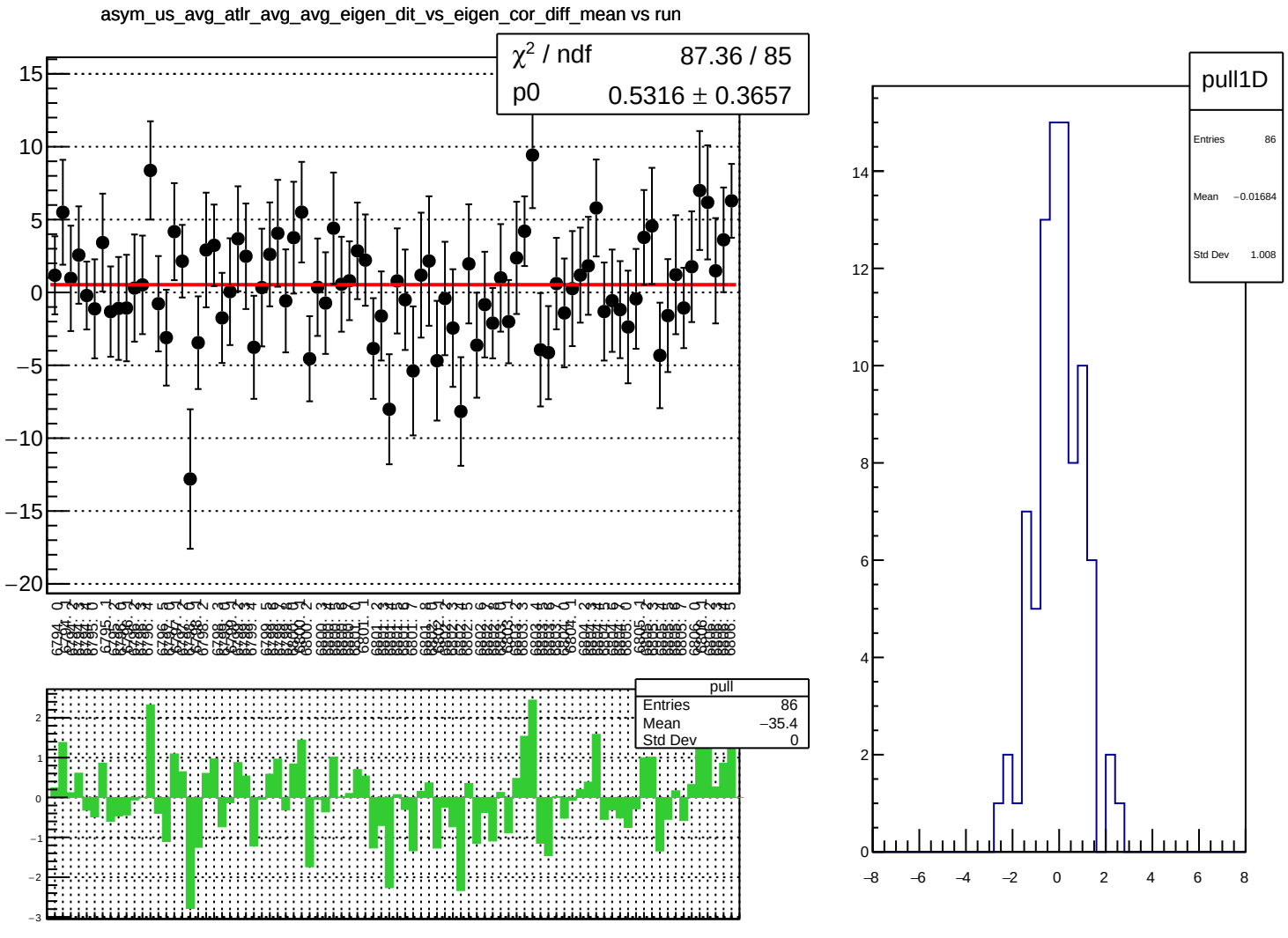

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.97 / 85
p0 −1.924e−06 ± 1.001e−05
pull
Entries 86
Mean −81.97
Std Dev 0

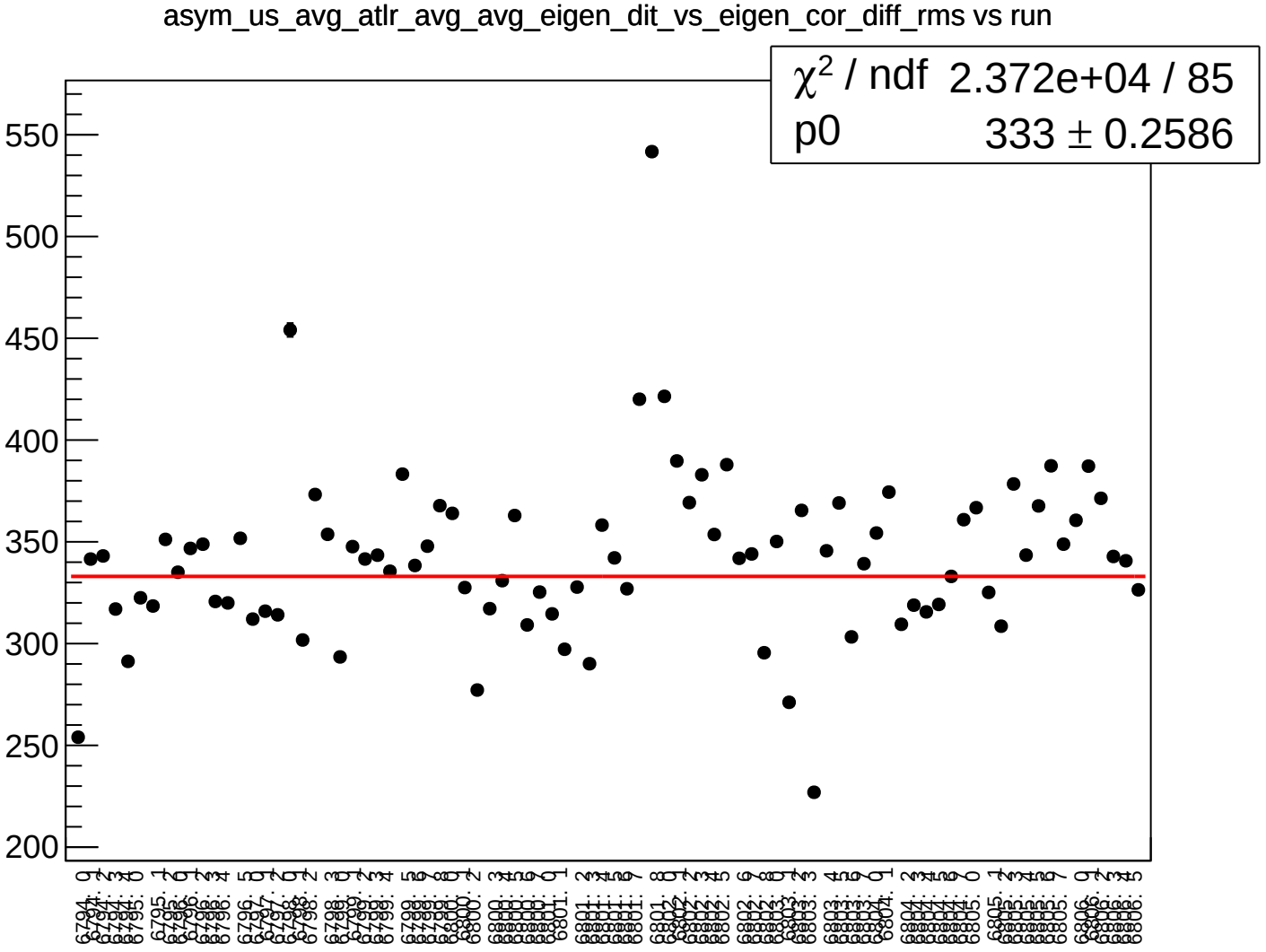

pull1D
Entries 86
Mean −0.01641
Std Dev 0.9821

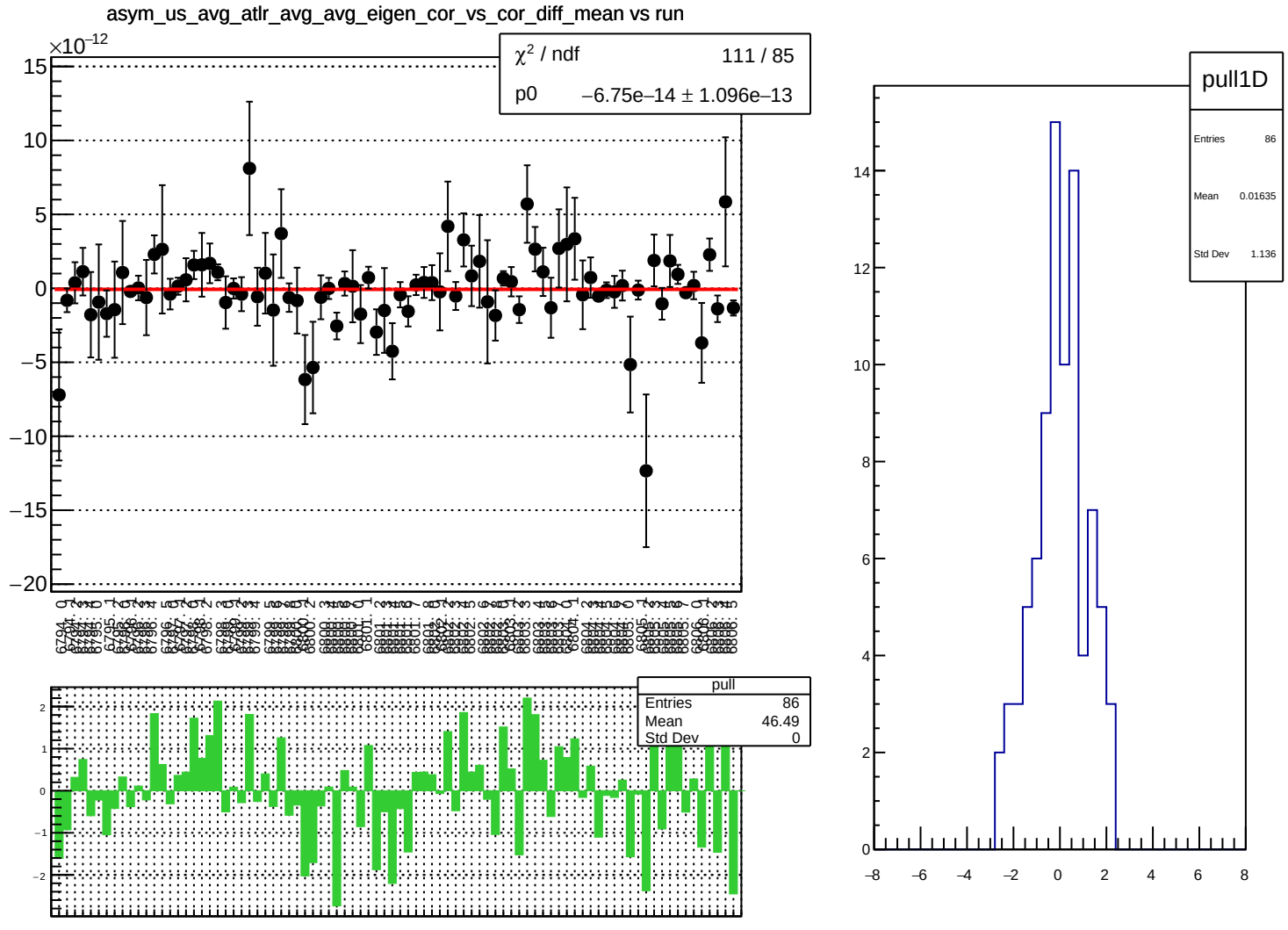

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8279 / 85
p0 0.00916 ± 7.08e–06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

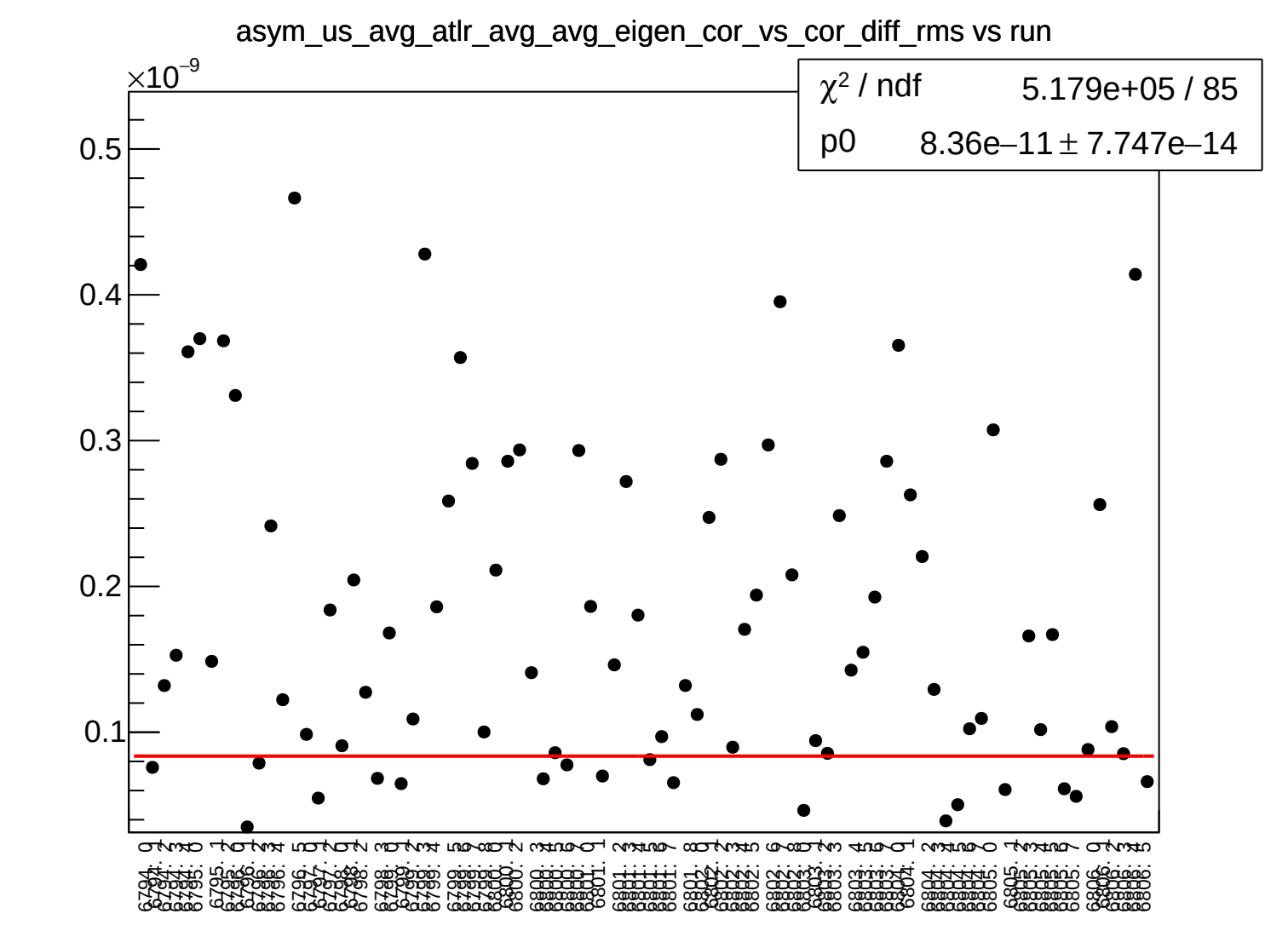

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.36 / 85
p0 0.5316 ± 0.3657
pull
Entries 86
Mean −35.4
Std Dev 0
pull1D
Entries 86
Mean −0.01684
Std Dev 1.008

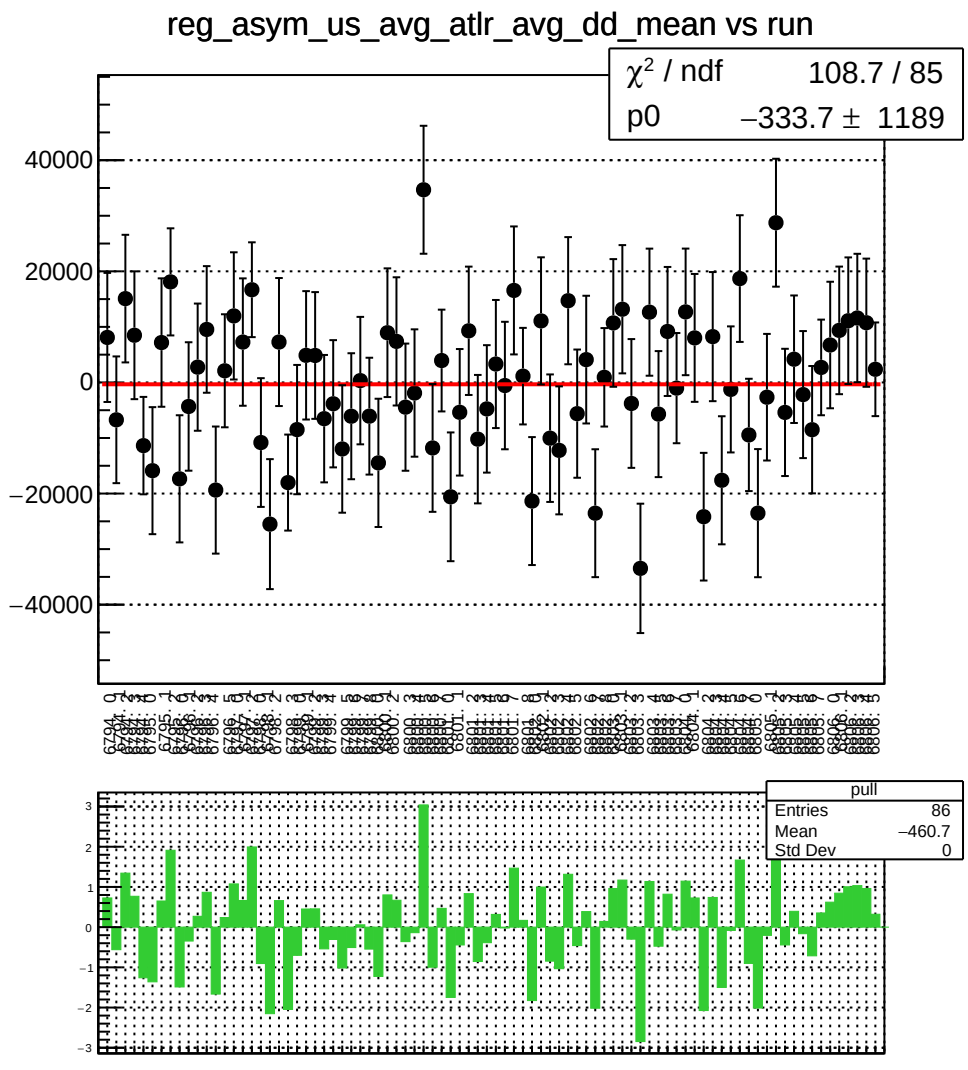

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.372e+04 / 85
p0 333 ± 0.2586
550
500
450
400
350
300
250
200

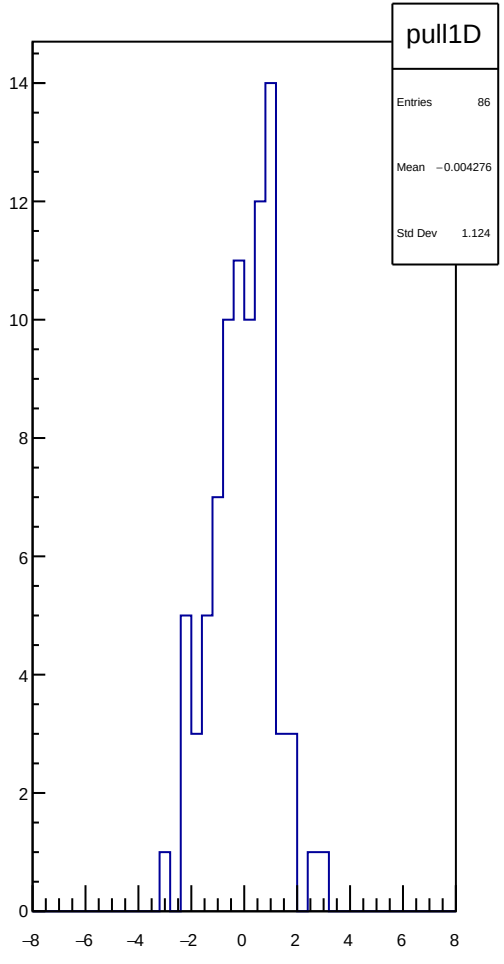

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.36 / 85
p0 0.5316 ± 0.3657
pull
Entries 86
Mean −35.4
Std Dev 0
pull1D
Entries 86
Mean −0.01684
Std Dev 1.008

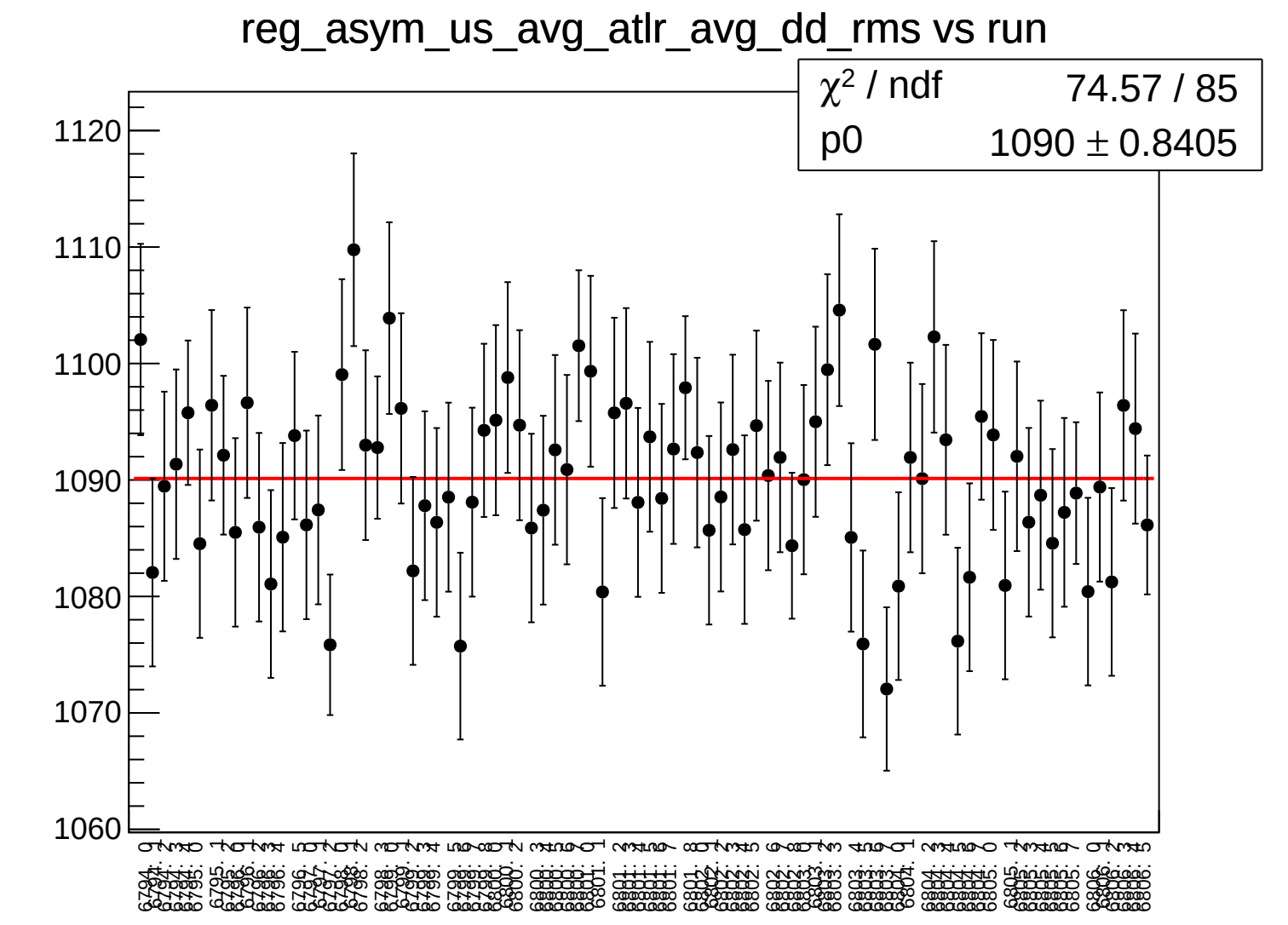

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.372e+04 / 85
p0 333 ± 0.2586
550
500
450
400
350
300
250
200

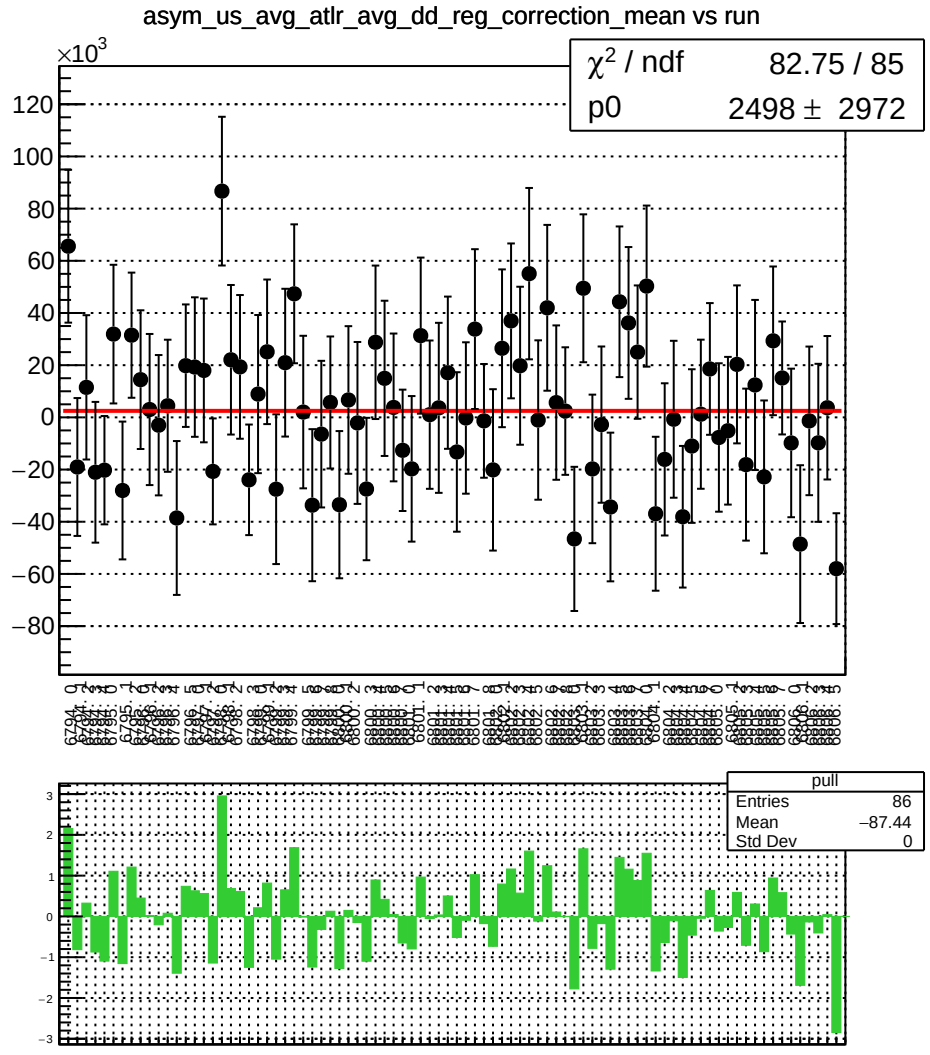

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111 / 85
p0 −6.75e−14 ± 1.096e−13
pull
Entries 86
Mean 46.49
Std Dev 0
pull1D
Entries 86
Mean 0.01635
Std Dev 1.136

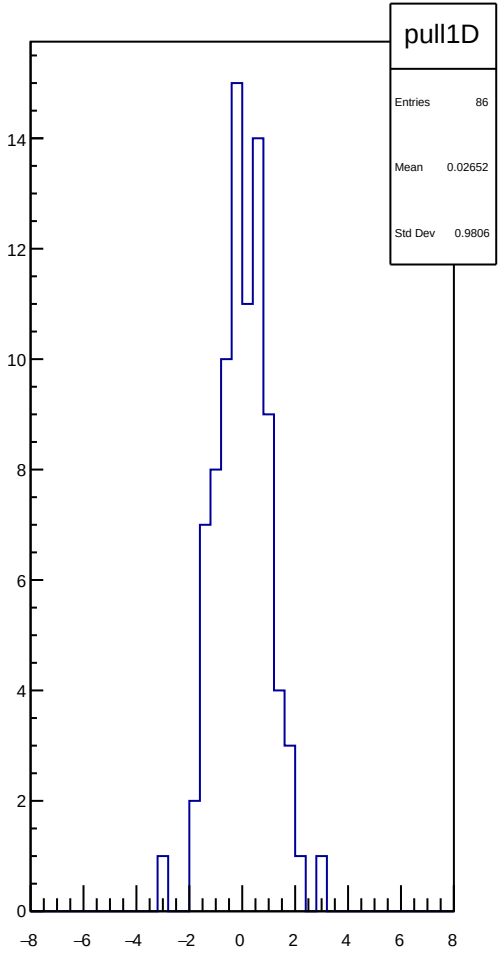

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.179e+05 / 85
p0 8.36e−11 ± 7.747e−14
0.5
0.4
0.3
0.2
0.1

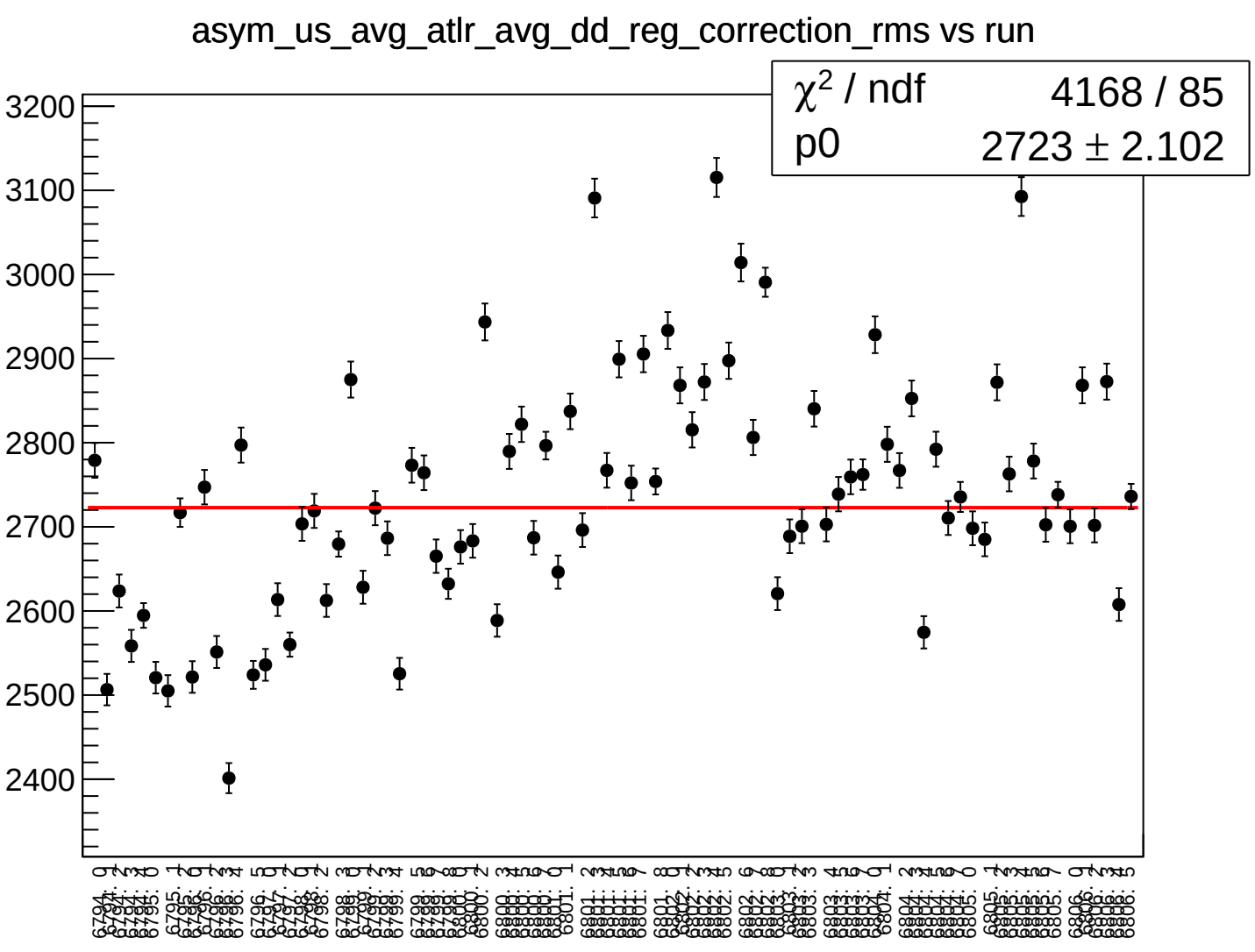

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108.7 / 85
p0 −333.7 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −460.7
Std Dev 0
3
2
1
0
−1
−2
−3

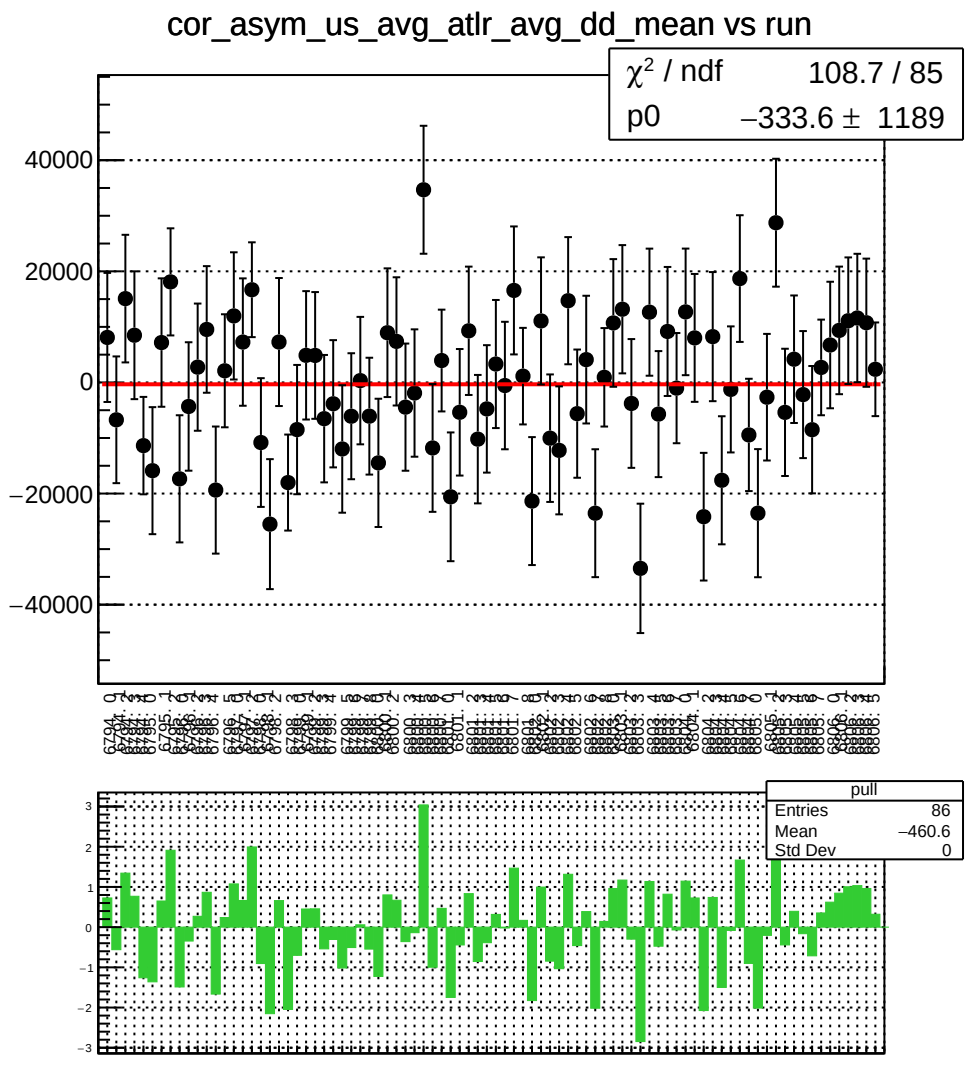

pull1D
Entries 86
Mean −0.004276
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

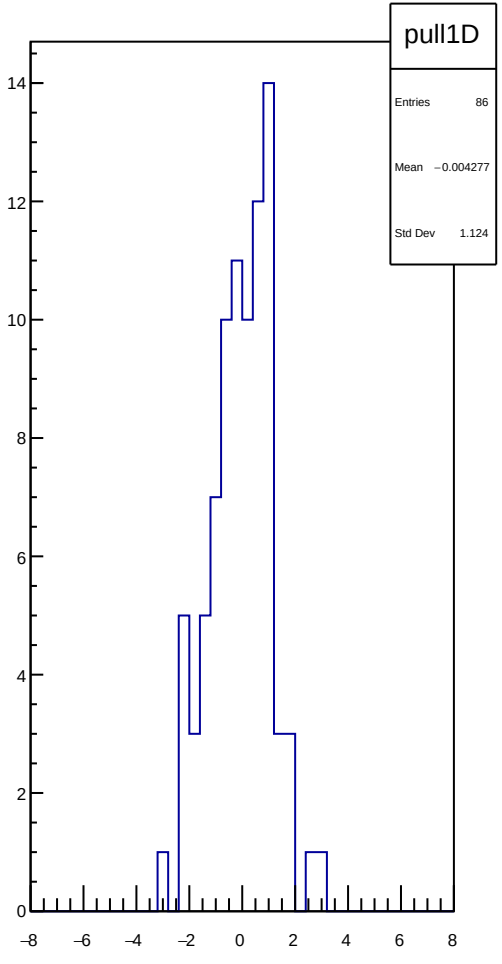

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 74.57 / 85
p0 1090 ± 0.8405
1120
1110
1100
1090
1080
1070
1060

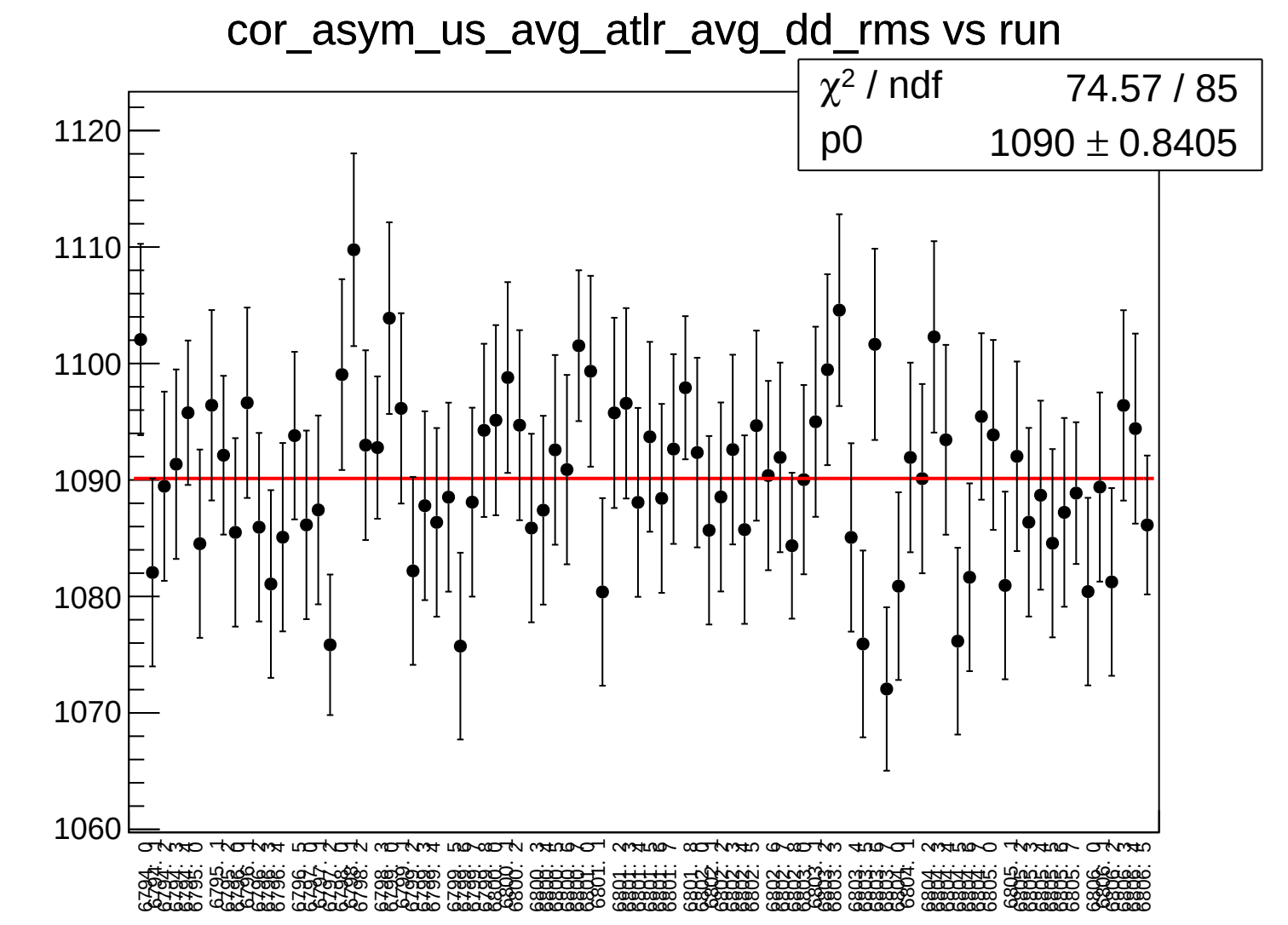

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 82.75 / 85
p0 2498 ± 2972
pull
Entries 86
Mean −87.44
Std Dev 0

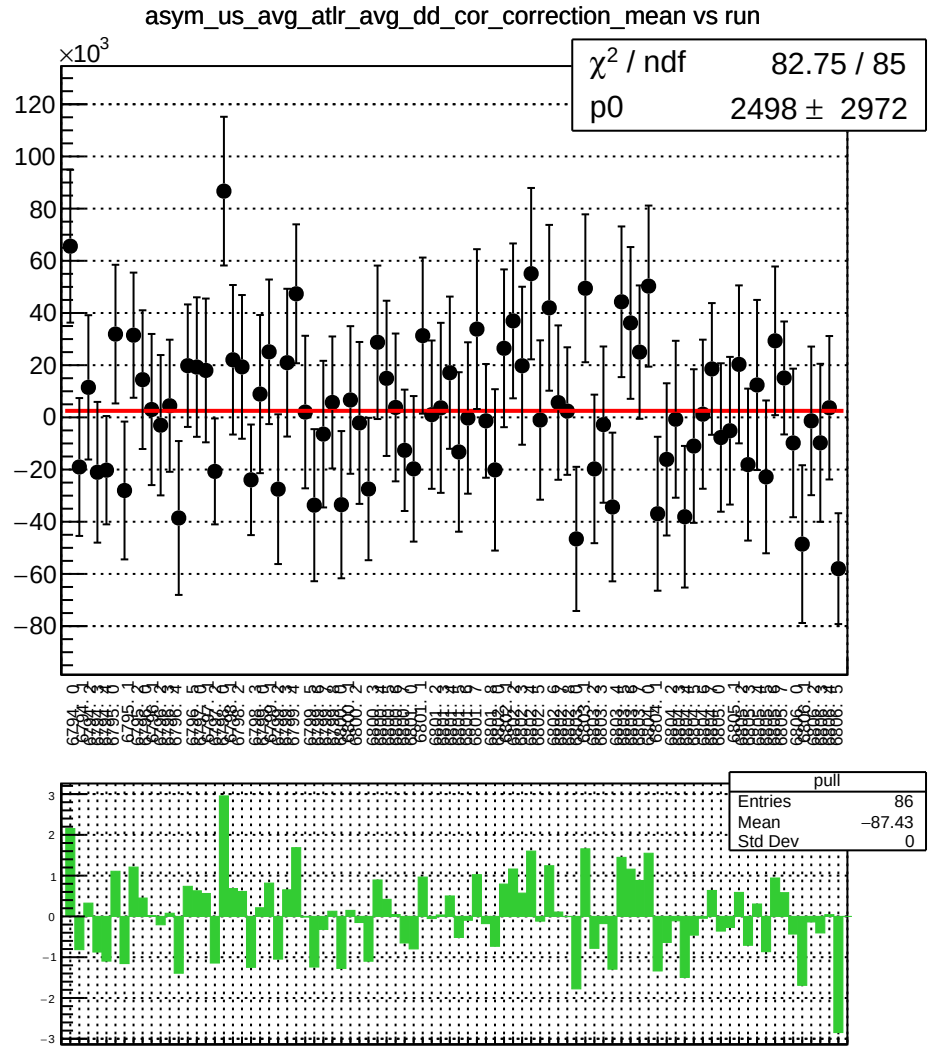

pull1D
Entries 86
Mean 0.02652
Std Dev 0.9806

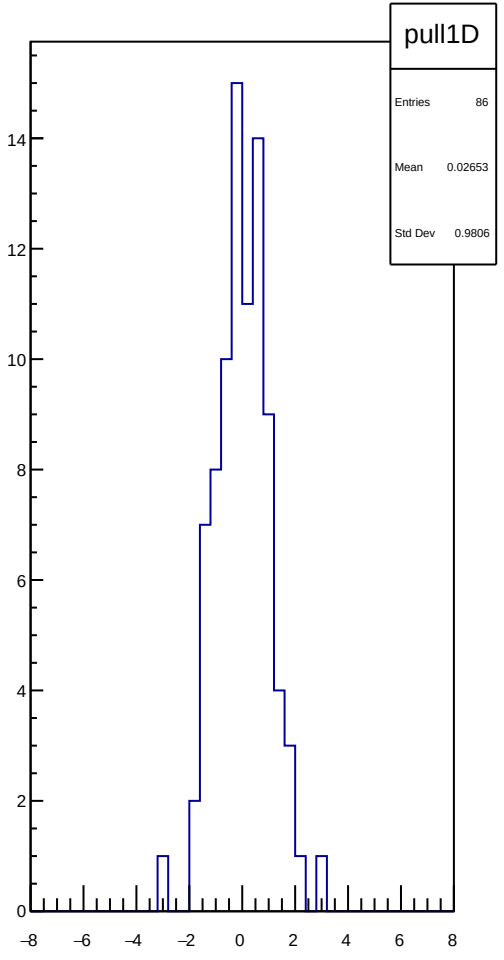

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4168 / 85
p0 2723 ± 2.102
3200
3100
3000
2900
2800
2700
2600
2500
2400

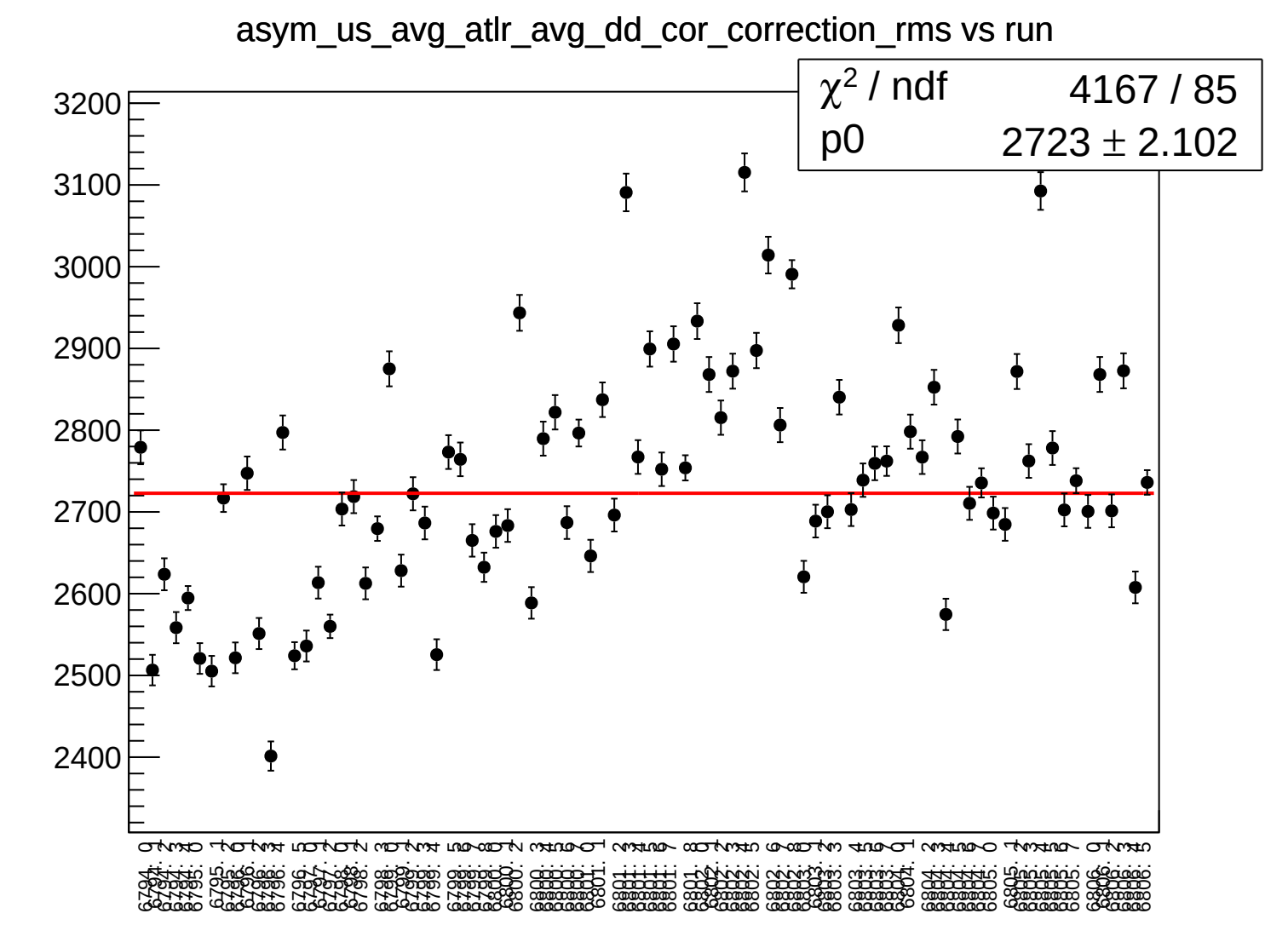

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108.7 / 85
p0 −333.6 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −460.6
Std Dev 0
3
2
1
0
−1
−2
−3

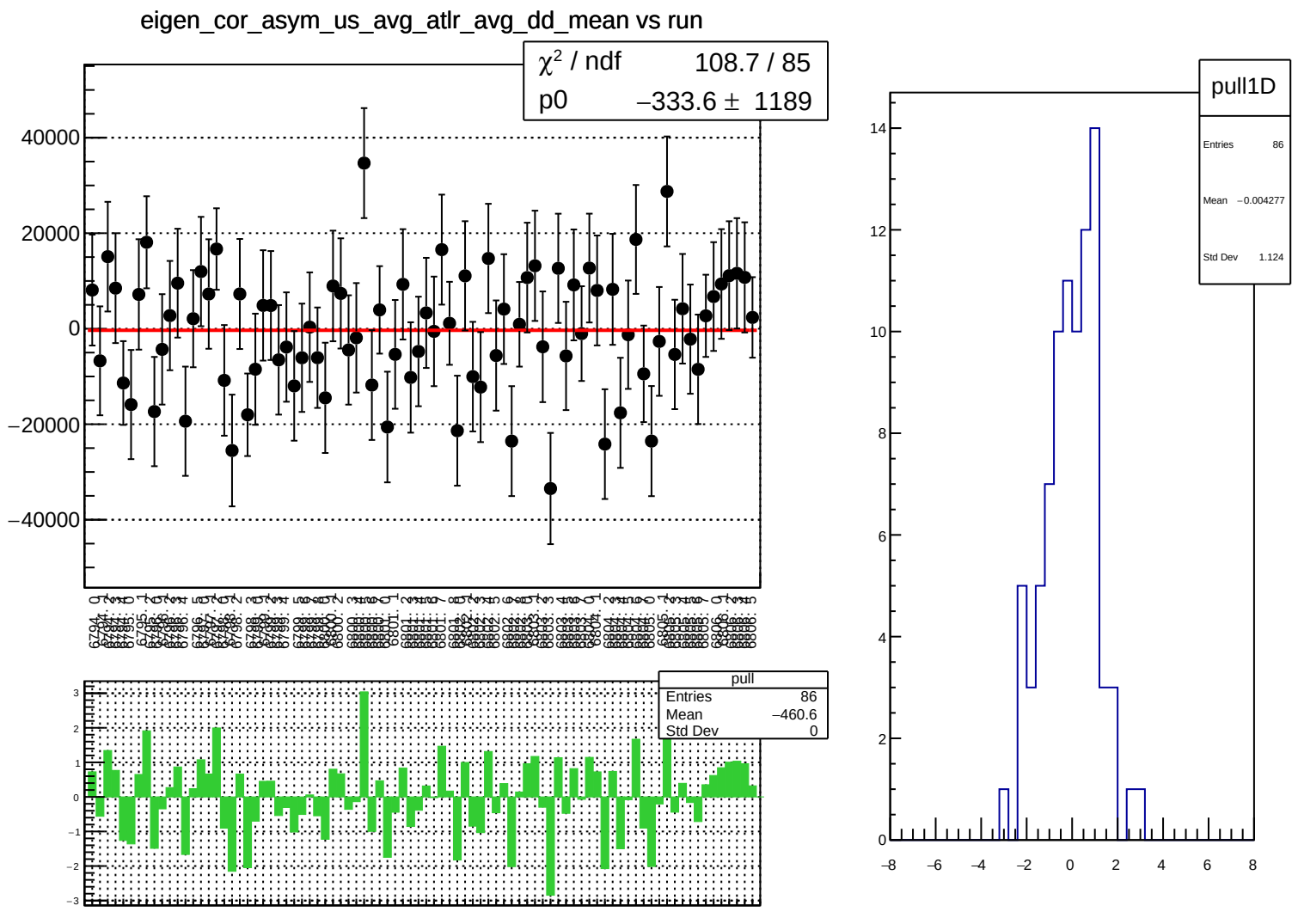

pull1D
Entries 86
Mean −0.004277
Std Dev 1.124
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

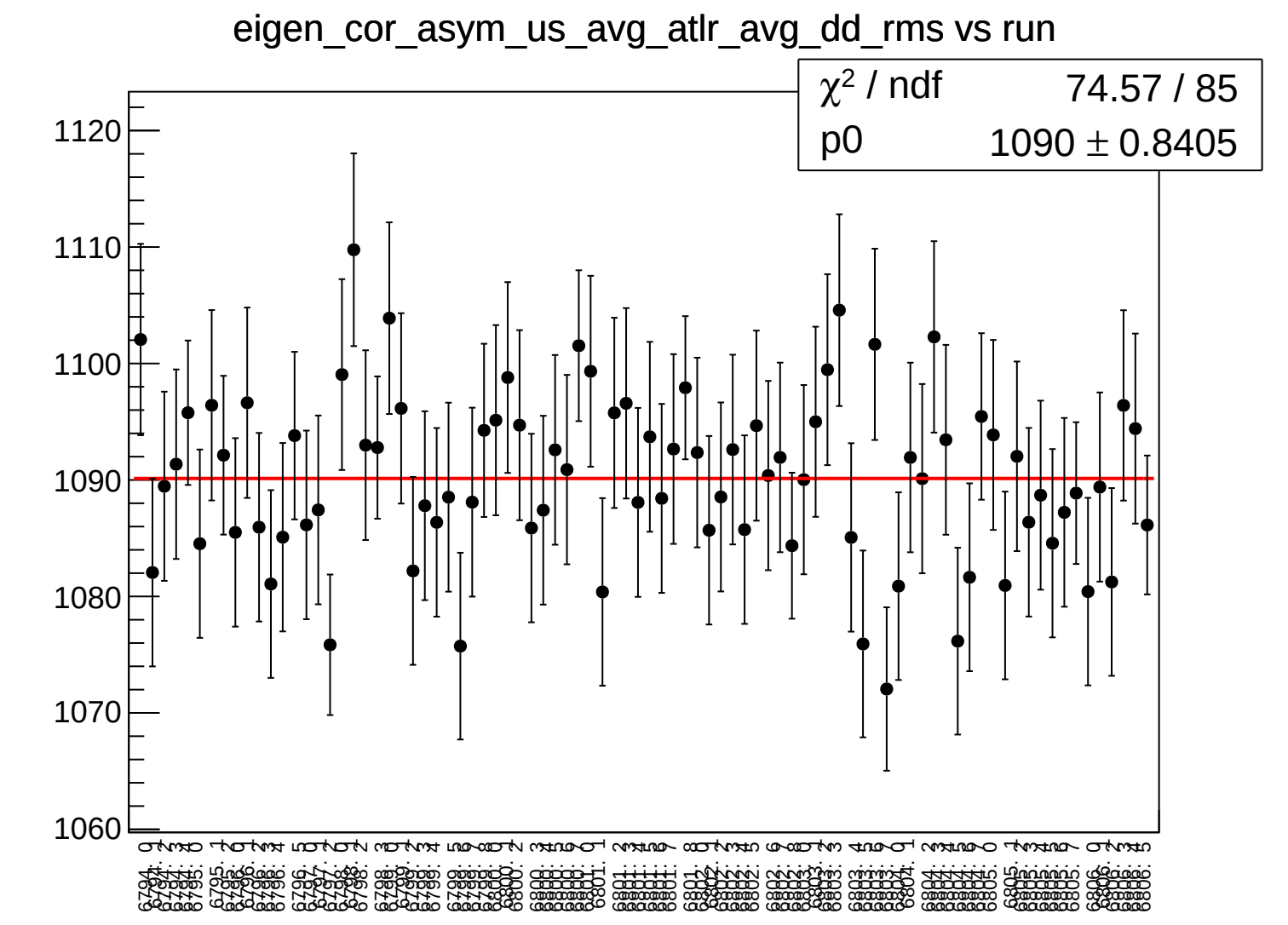

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 74.57 / 85
p0 1090 ± 0.8405
1120
1110
1100
1090
1080
1070
1060

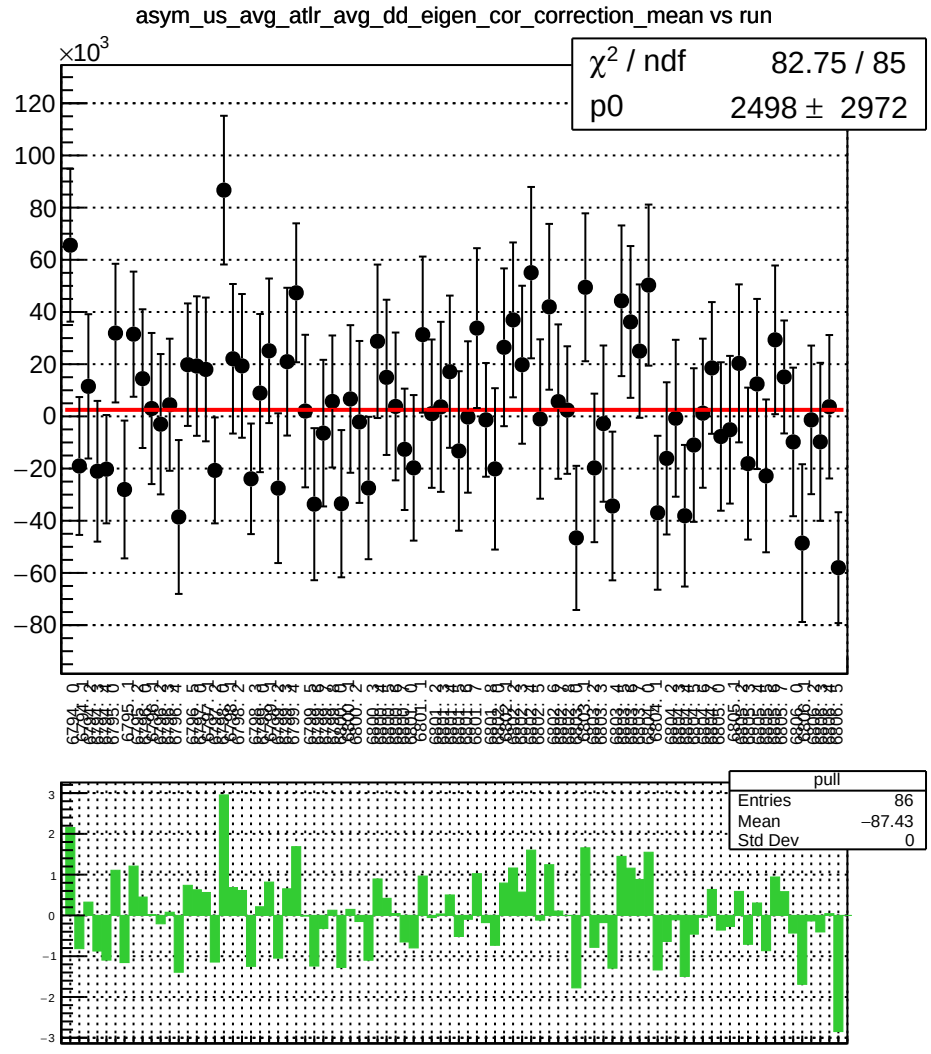

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 82.75 / 85
p0 2498 ± 2972
pull
Entries 86
Mean −87.43
Std Dev 0

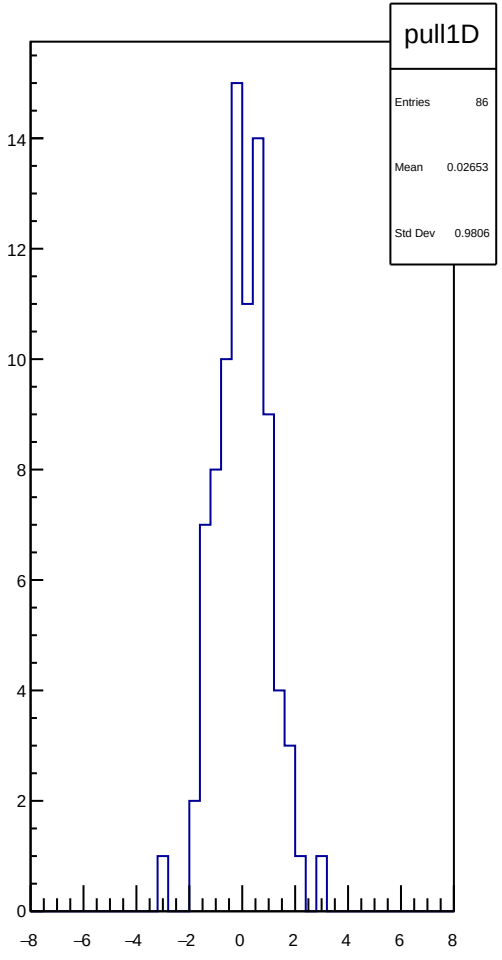

pull1D
Entries 86
Mean 0.02653
Std Dev 0.9806

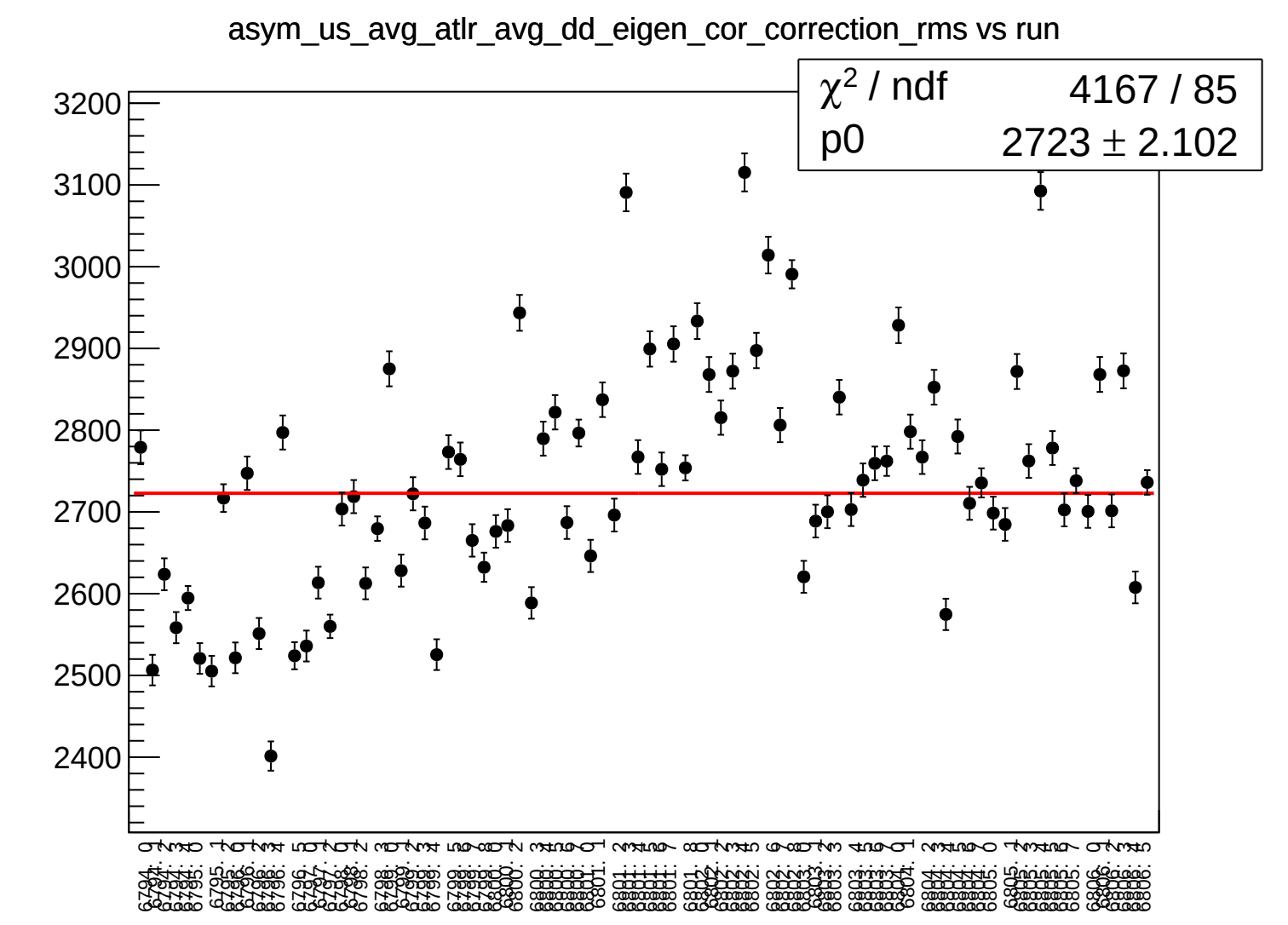

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4167 / 85
p0 2723 ± 2.102
3200
3100
3000
2900
2800
2700
2600
2500
2400

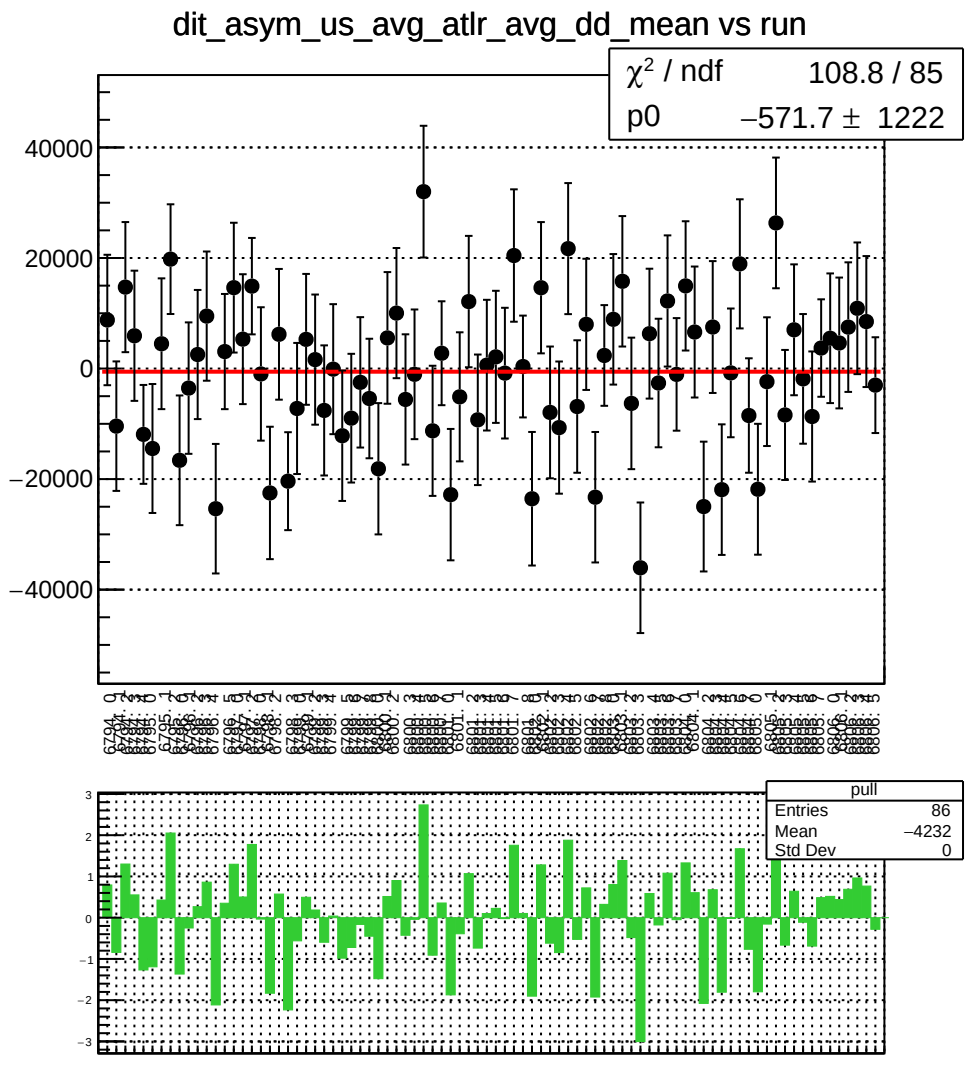

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108.7 / 85
p0 −333.6 ± 1189
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −460.6
Std Dev 0
pull1D
Entries 86
Mean −0.004277
Std Dev 1.124

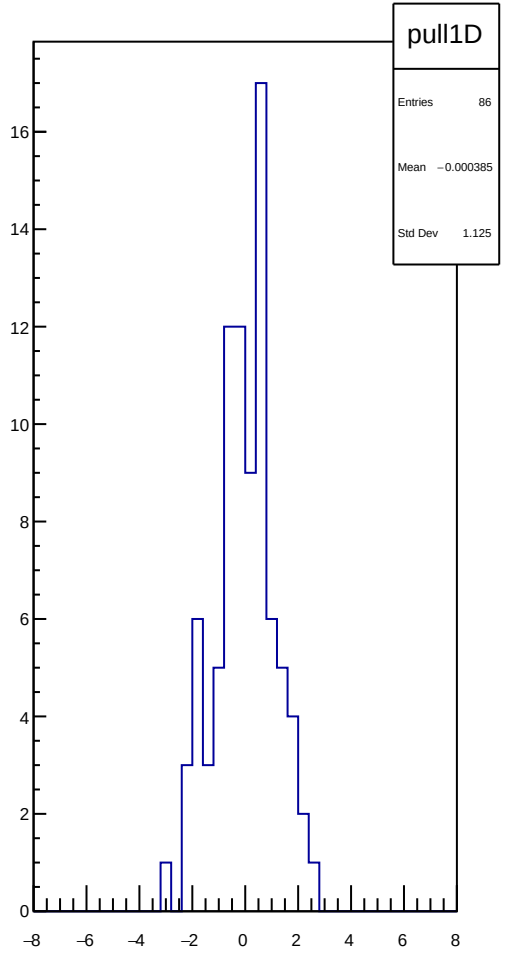

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 74.57 / 85
p0 1090 ± 0.8405
1120
1110
1100
1090
1080
1070
1060

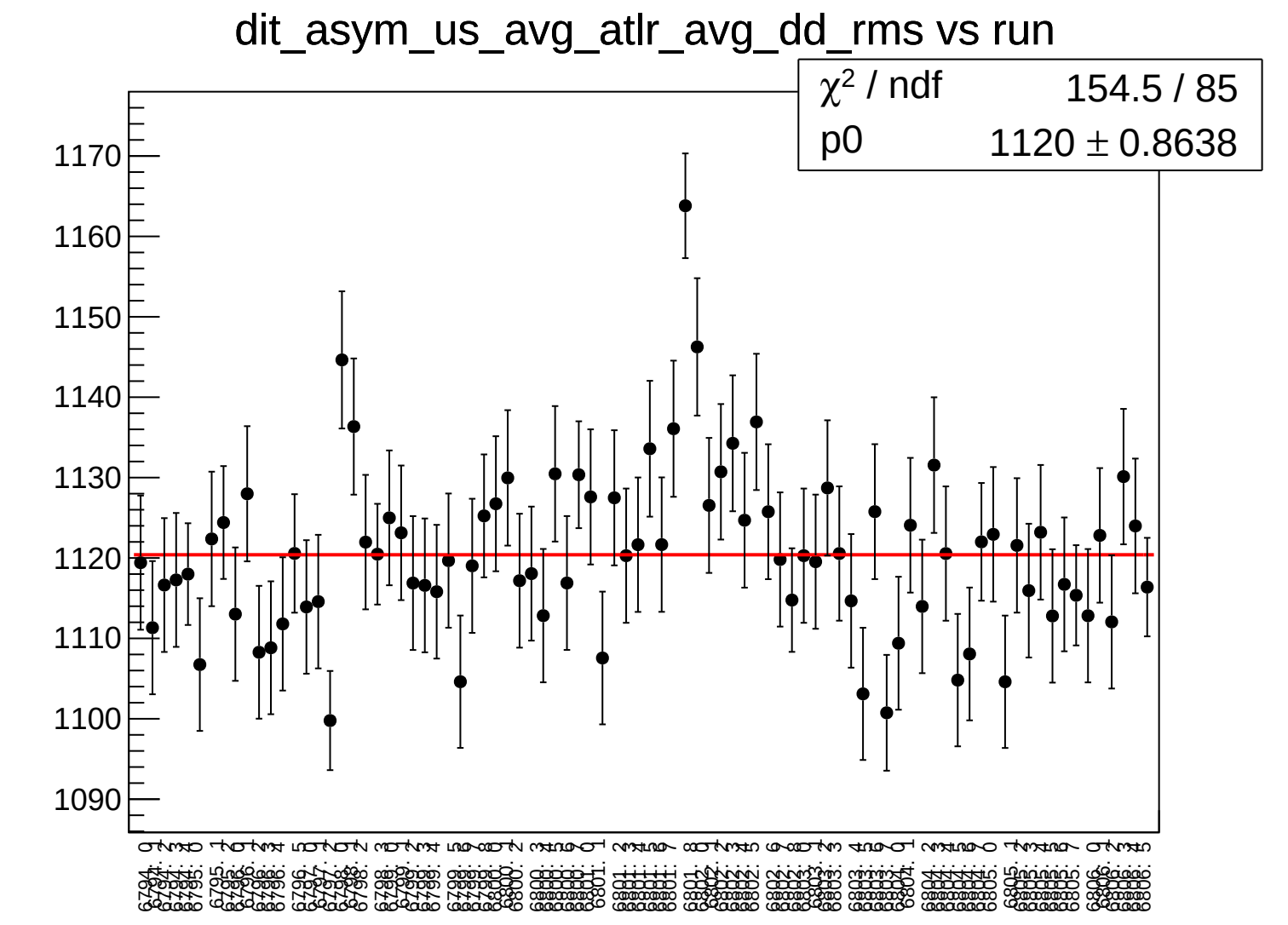

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 82.75 / 85
p0 2498 ± 2972
pull
Entries 86
Mean −87.43
Std Dev 0

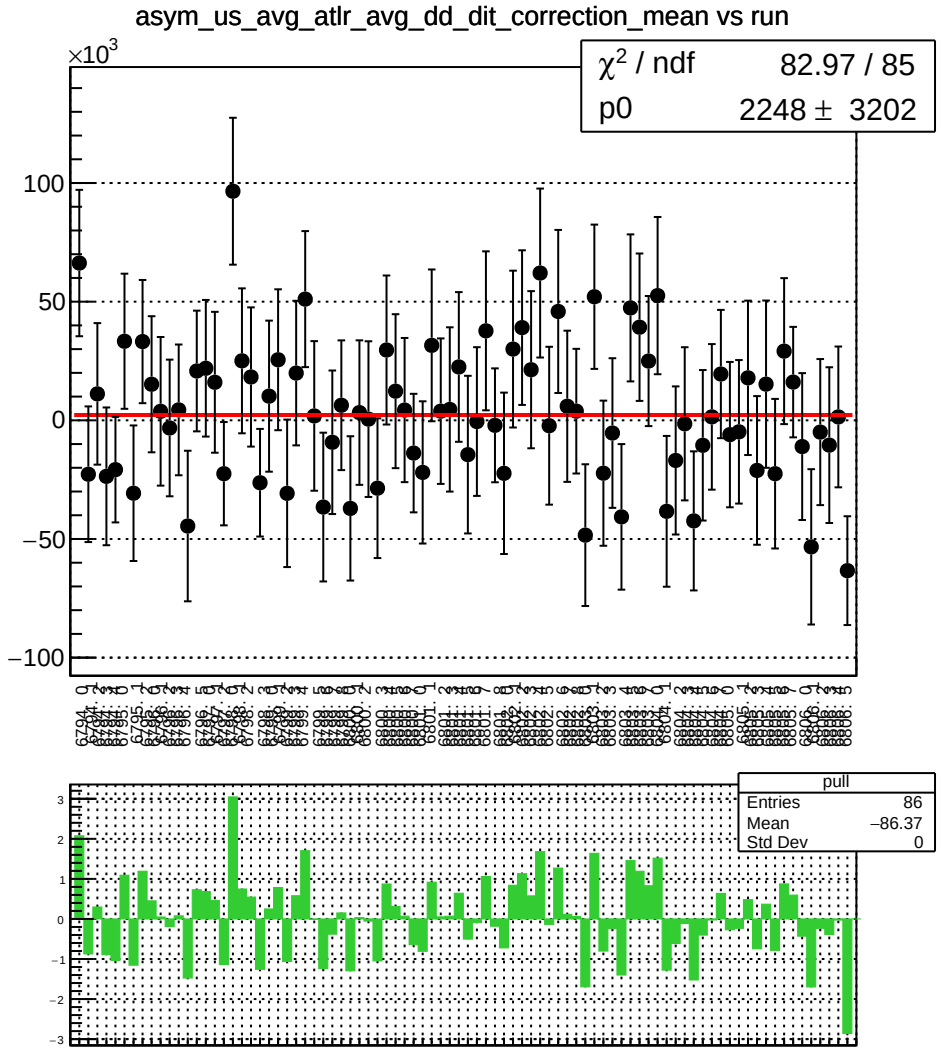

pull1D
Entries 86
Mean 0.02653
Std Dev 0.9806

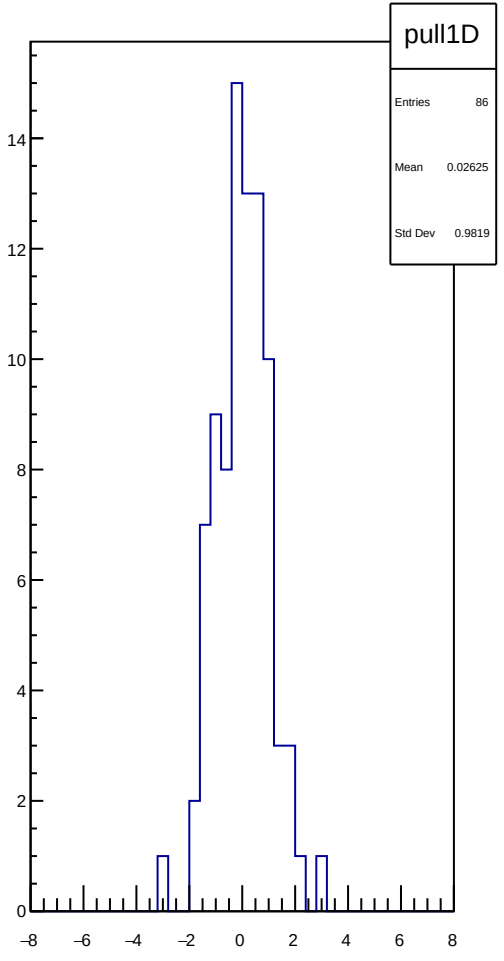

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4167 / 85
p0 2723 ± 2.102
3200
3100
3000
2900
2800
2700
2600
2500
2400

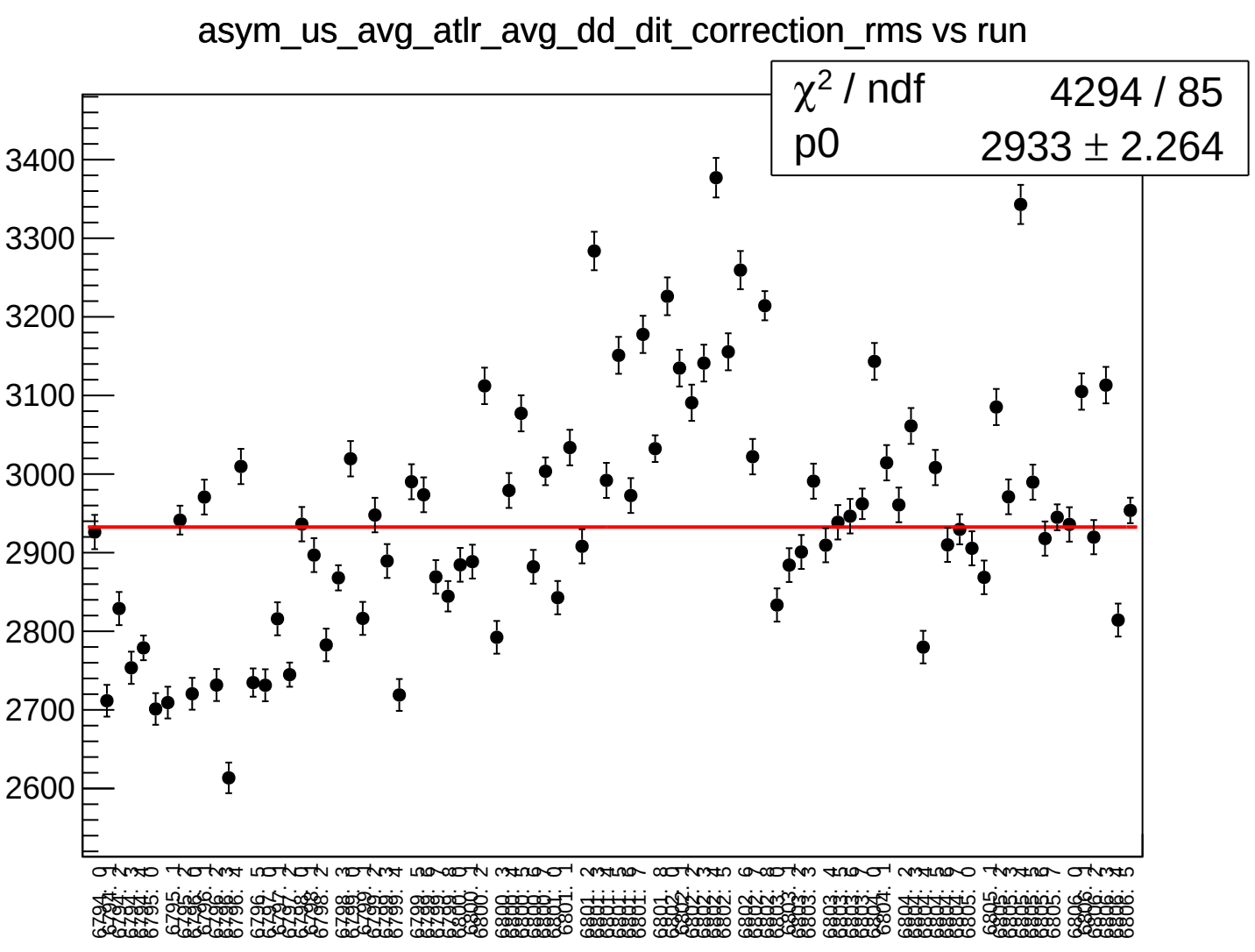

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108.8 / 85
p0 −571.7 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −4232
Std Dev 0
3
2
1
0
−1
−2
−3

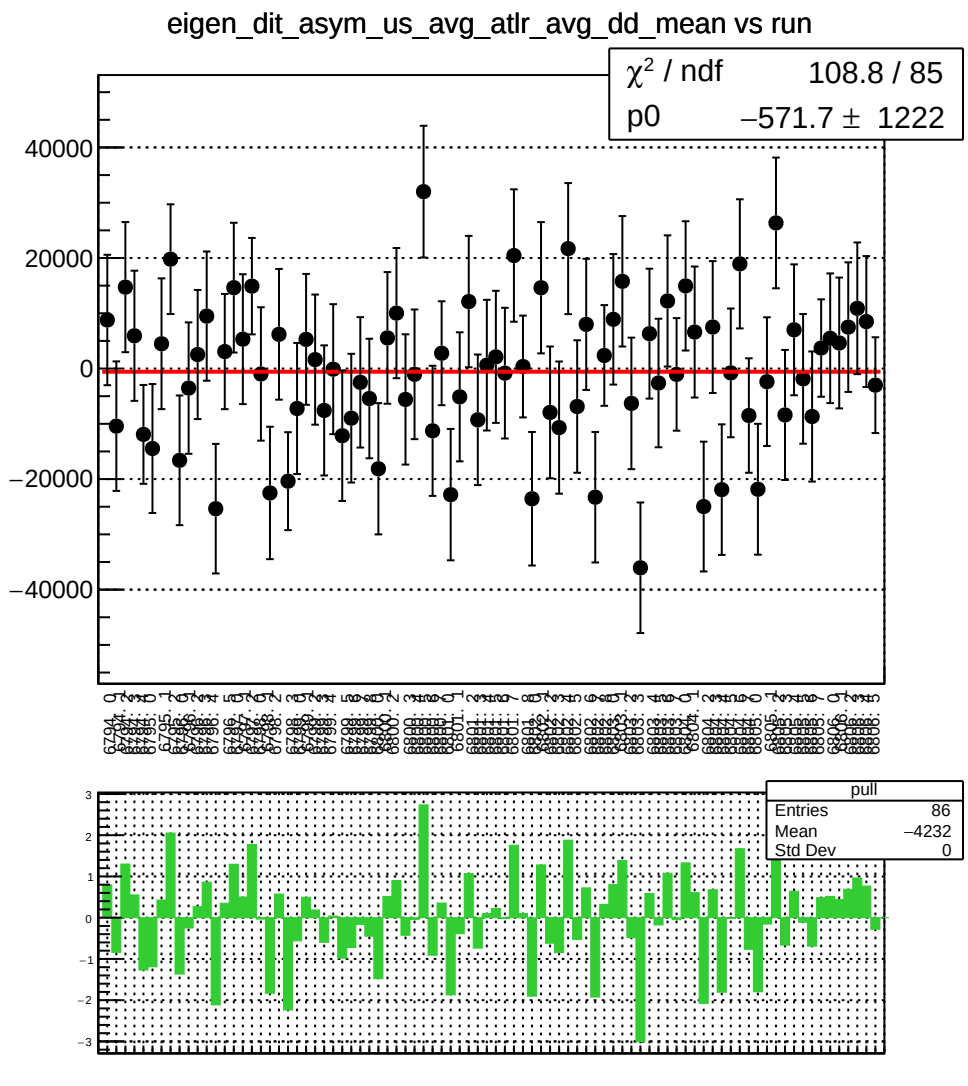

pull1D
Entries 86
Mean −0.000385
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

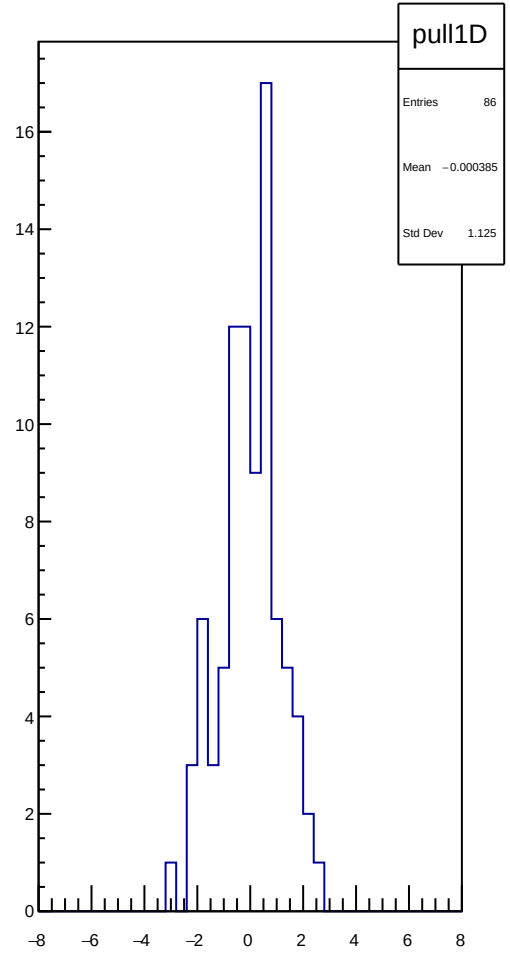

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 154.5 / 85
p0 1120 ± 0.8638
1170
1160
1150
1140
1130
1120
1110
1100
1090

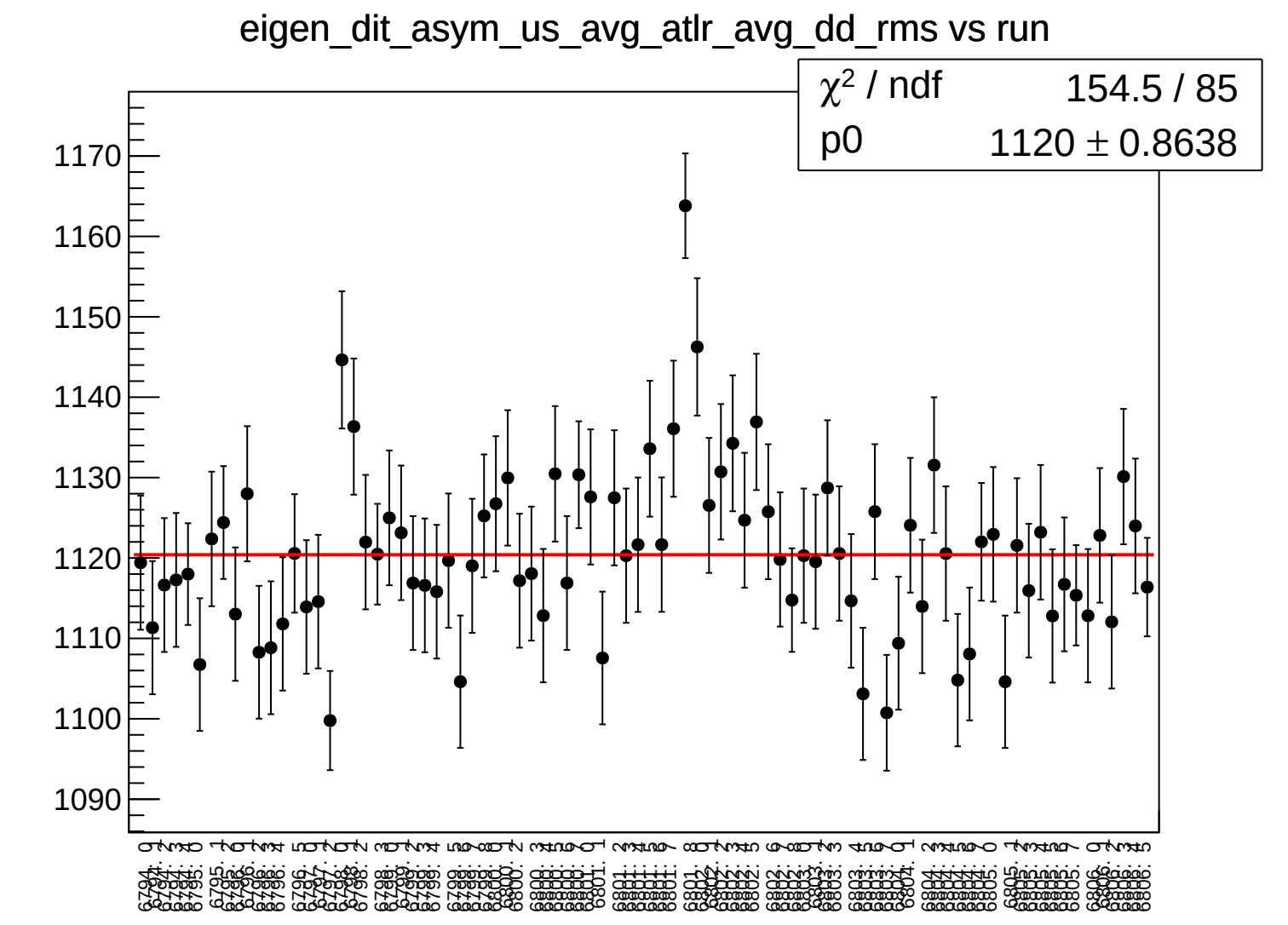

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.97 / 85
p0 2248 ± 3202
100
50
0
−50
−100
pull
Entries 86
Mean −86.37
Std Dev 0
3
2
1
0
−1
−2
−3

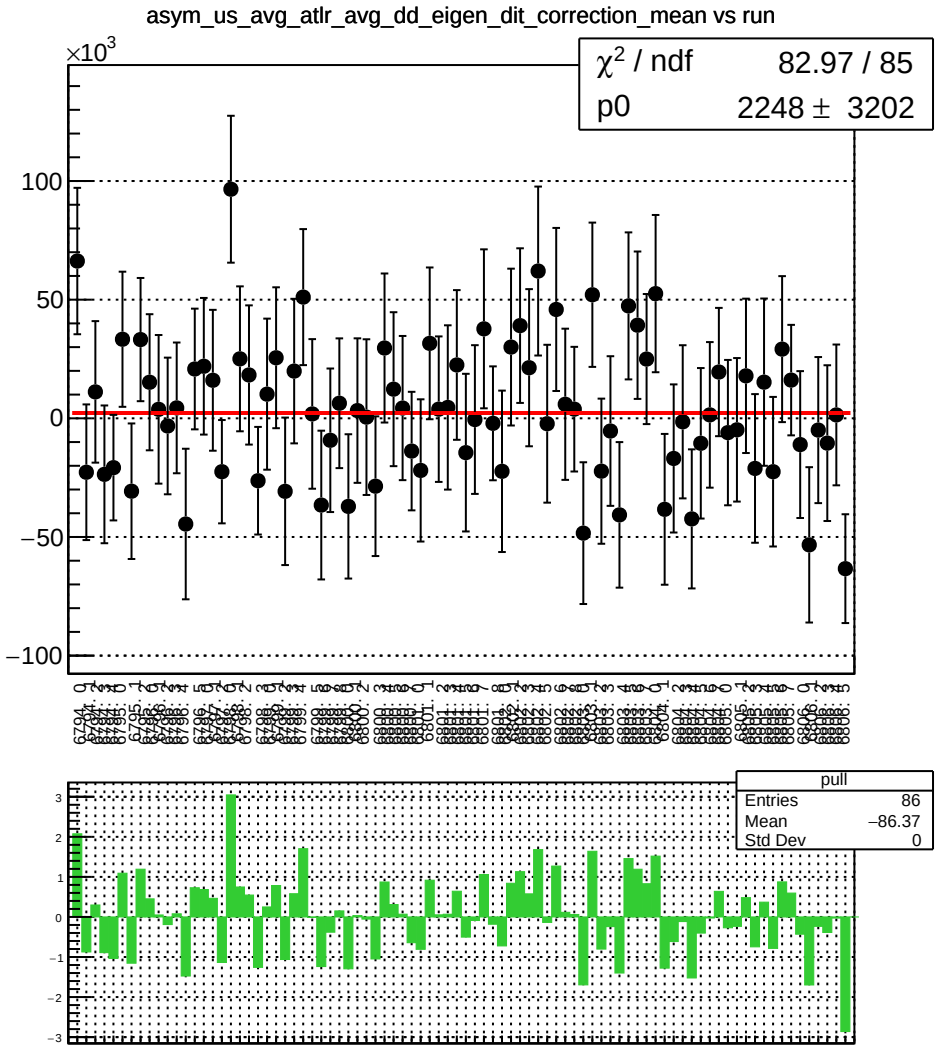

pull1D
Entries 86
Mean 0.02625
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

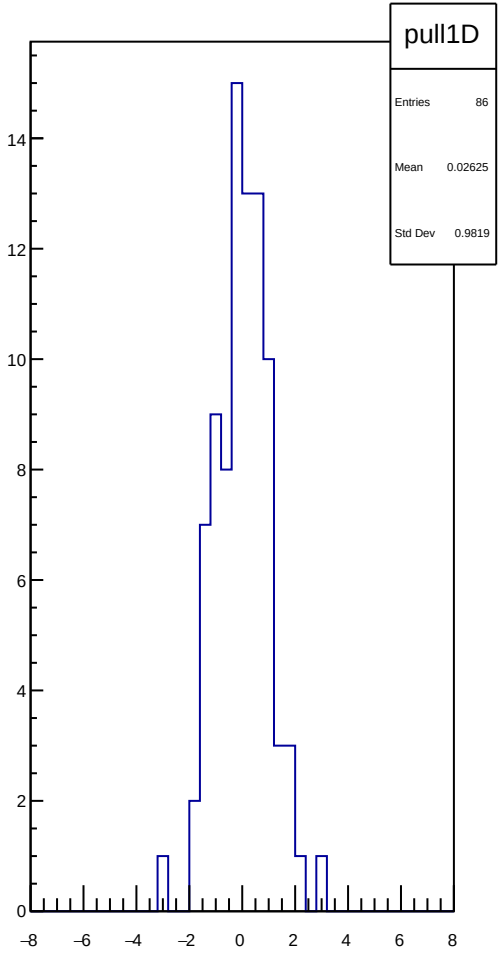

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 4294 / 85
p0 2933 ± 2.264
3400
3300
3200
3100
3000
2900
2800
2700
2600

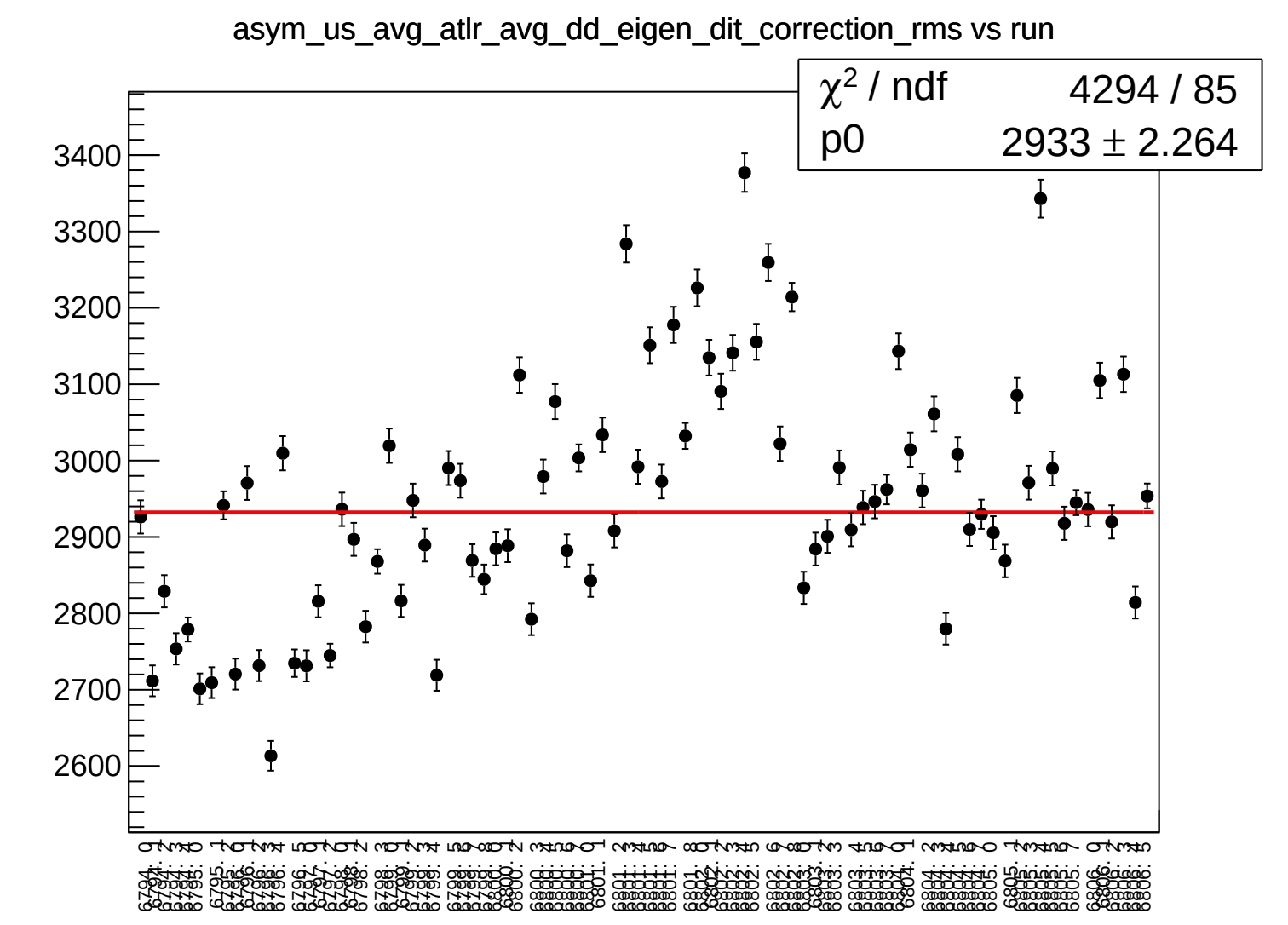

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 108.8 / 85
p0 −571.7 ± 1222
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −4232
Std Dev 0
3
2
1
0
−1
−2
−3

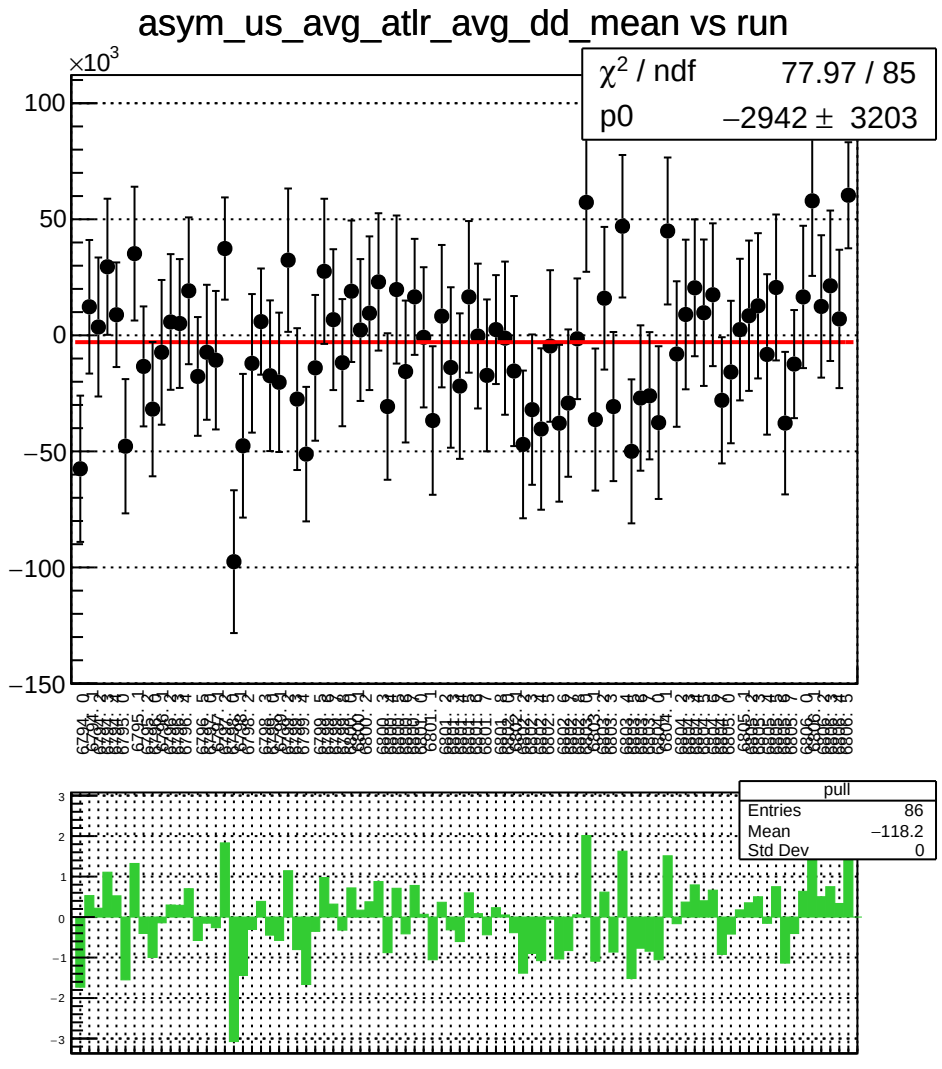

pull1D
Entries 86
Mean −0.000385
Std Dev 1.125
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

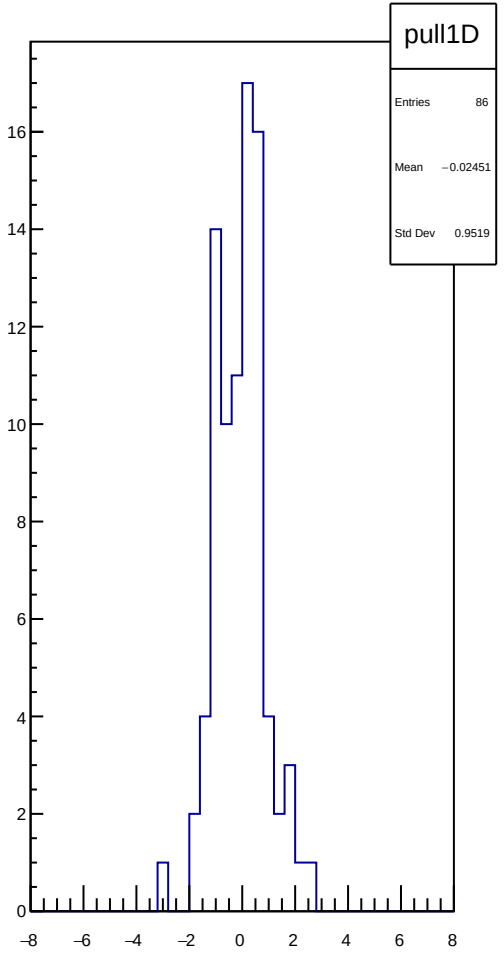

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 154.5 / 85
p0 1120 ± 0.8638
1170
1160
1150
1140
1130
1120
1110
1100
1090

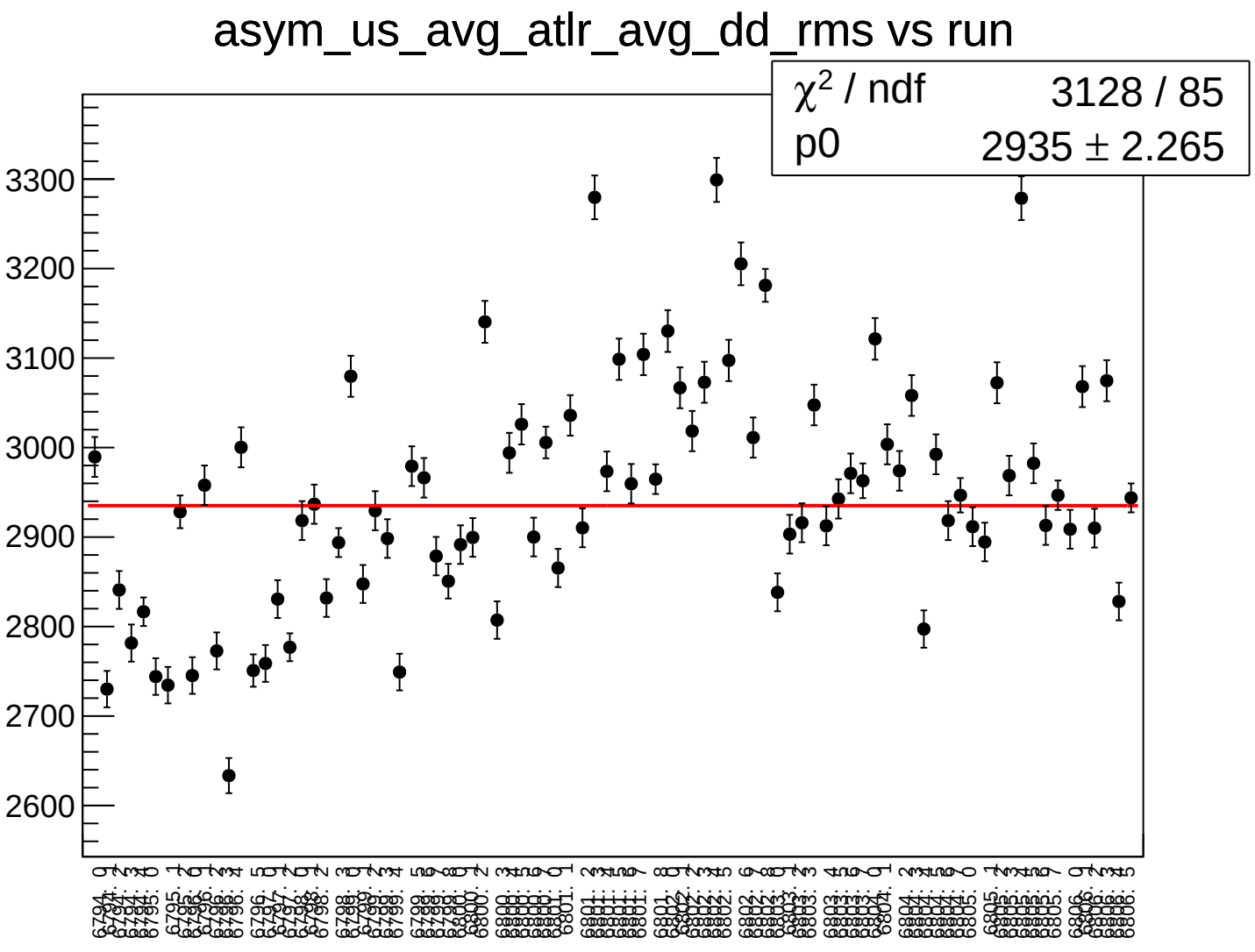

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 82.97 / 85
p0 2248 ± 3202
100
50
0
−50
−100
pull
Entries 86
Mean −86.37
Std Dev 0
3
2
1
0
−1
−2
−3

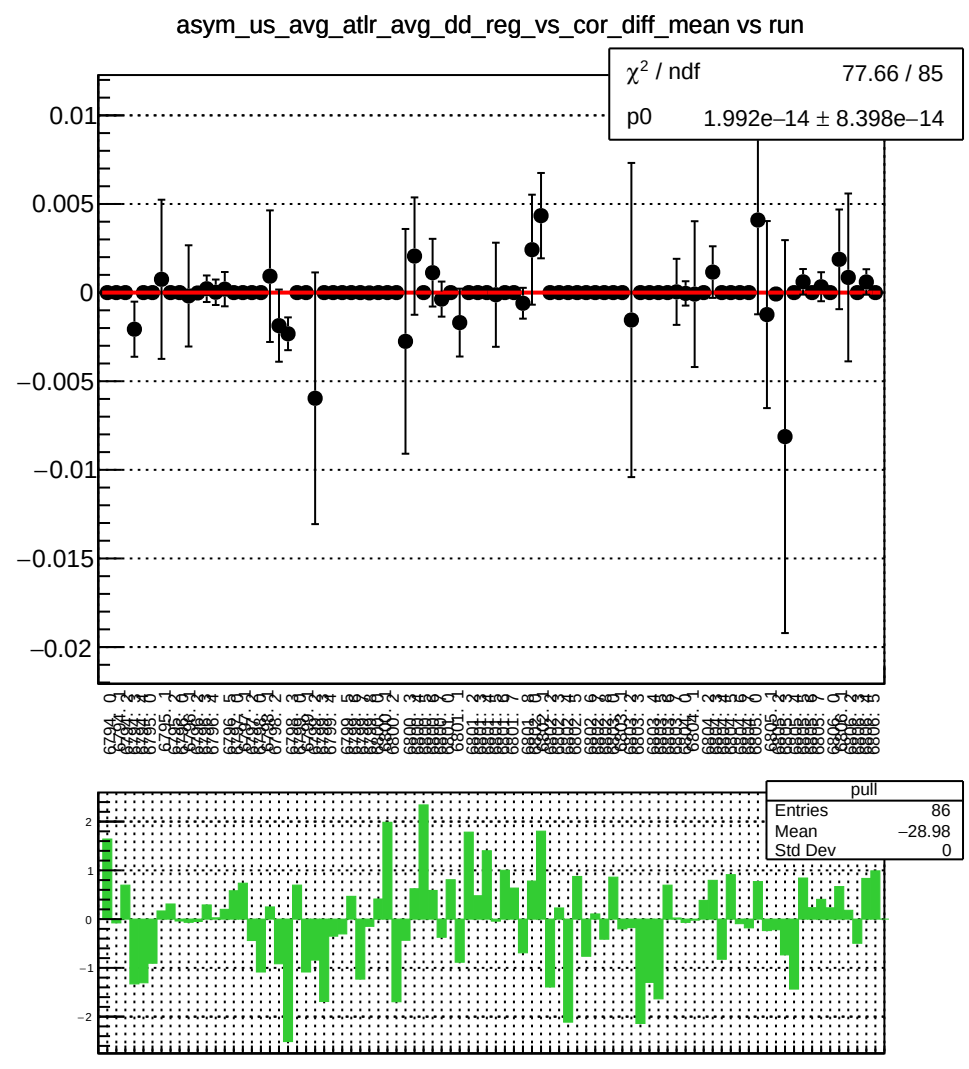

pull1D
Entries 86
Mean 0.02625
Std Dev 0.9819
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

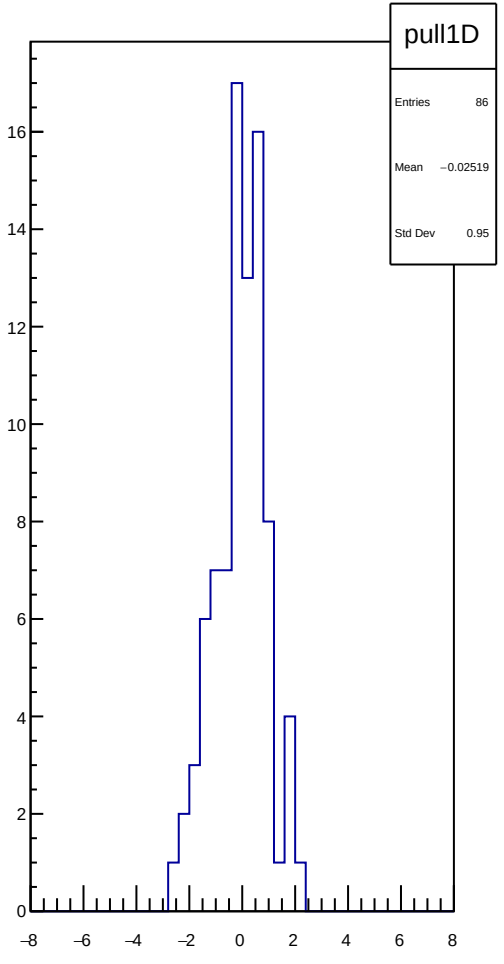

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4294 / 85
p0 2933 ± 2.264
3400
3300
3200
3100
3000
2900
2800
2700
2600

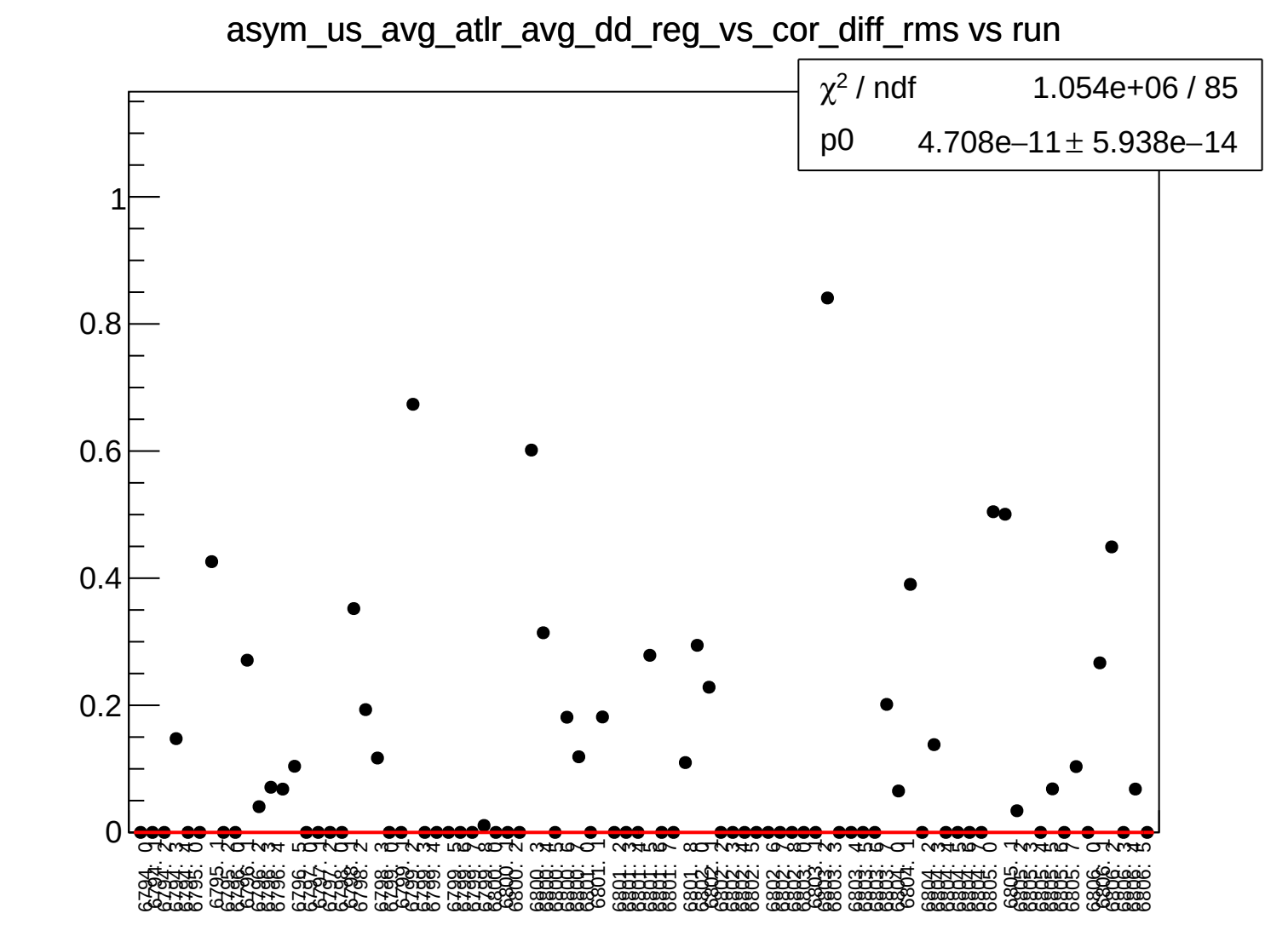

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 77.97 / 85
p0 −2942 ± 3203
pull
Entries 86
Mean −118.2
Std Dev 0

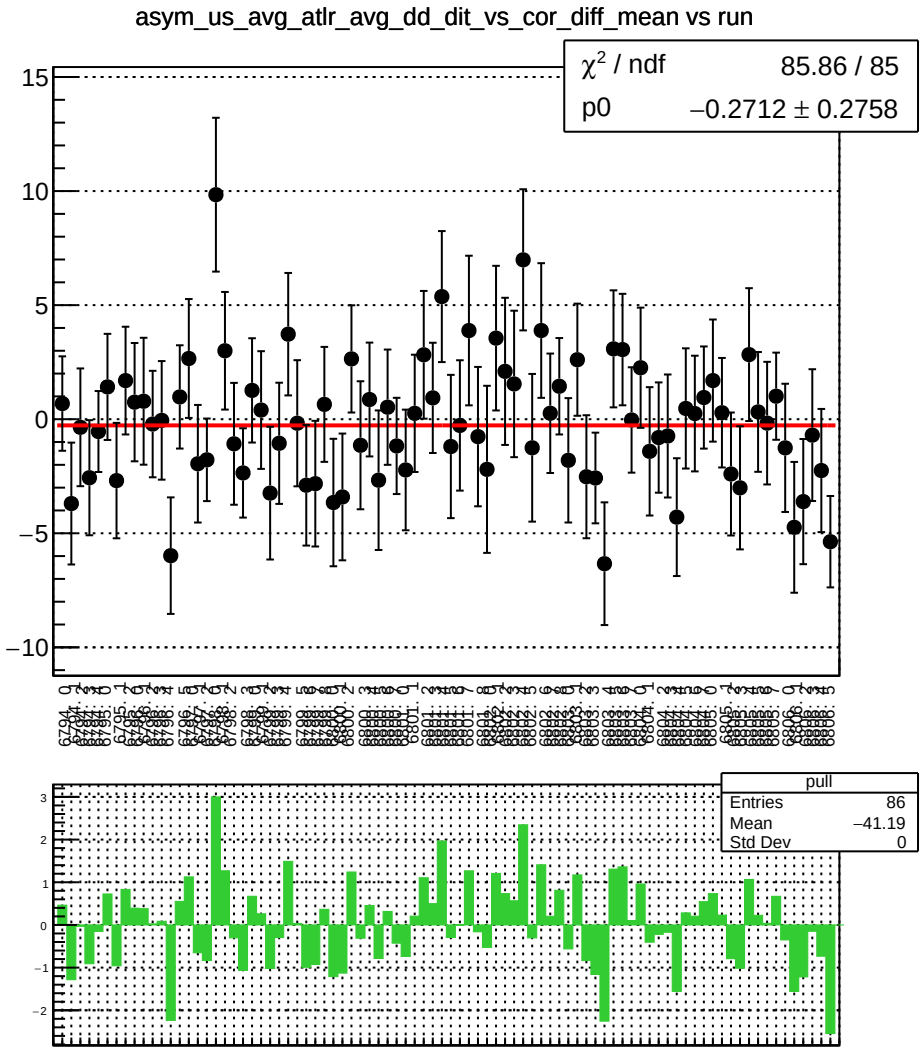

pull1D
Entries 86
Mean −0.02451
Std Dev 0.9519

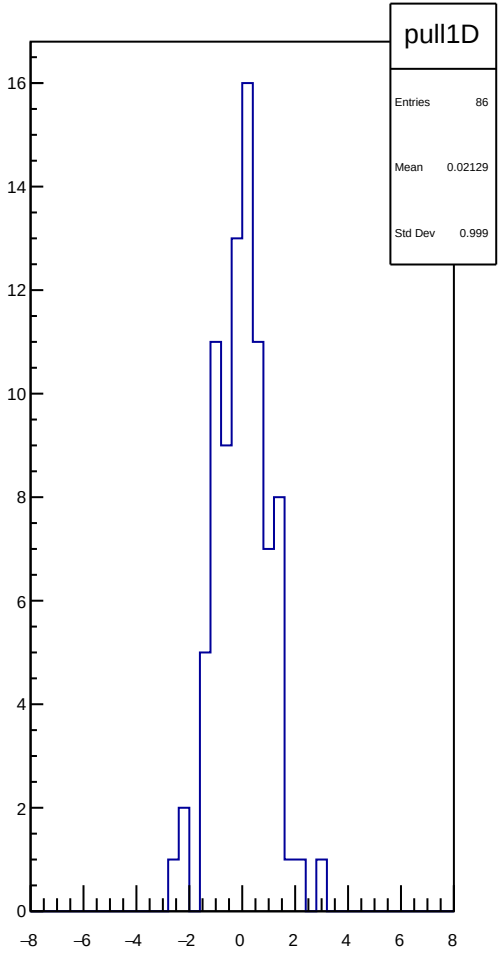

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 3128 / 85
p0 2935 ± 2.265
3300
3200
3100
3000
2900
2800
2700
2600

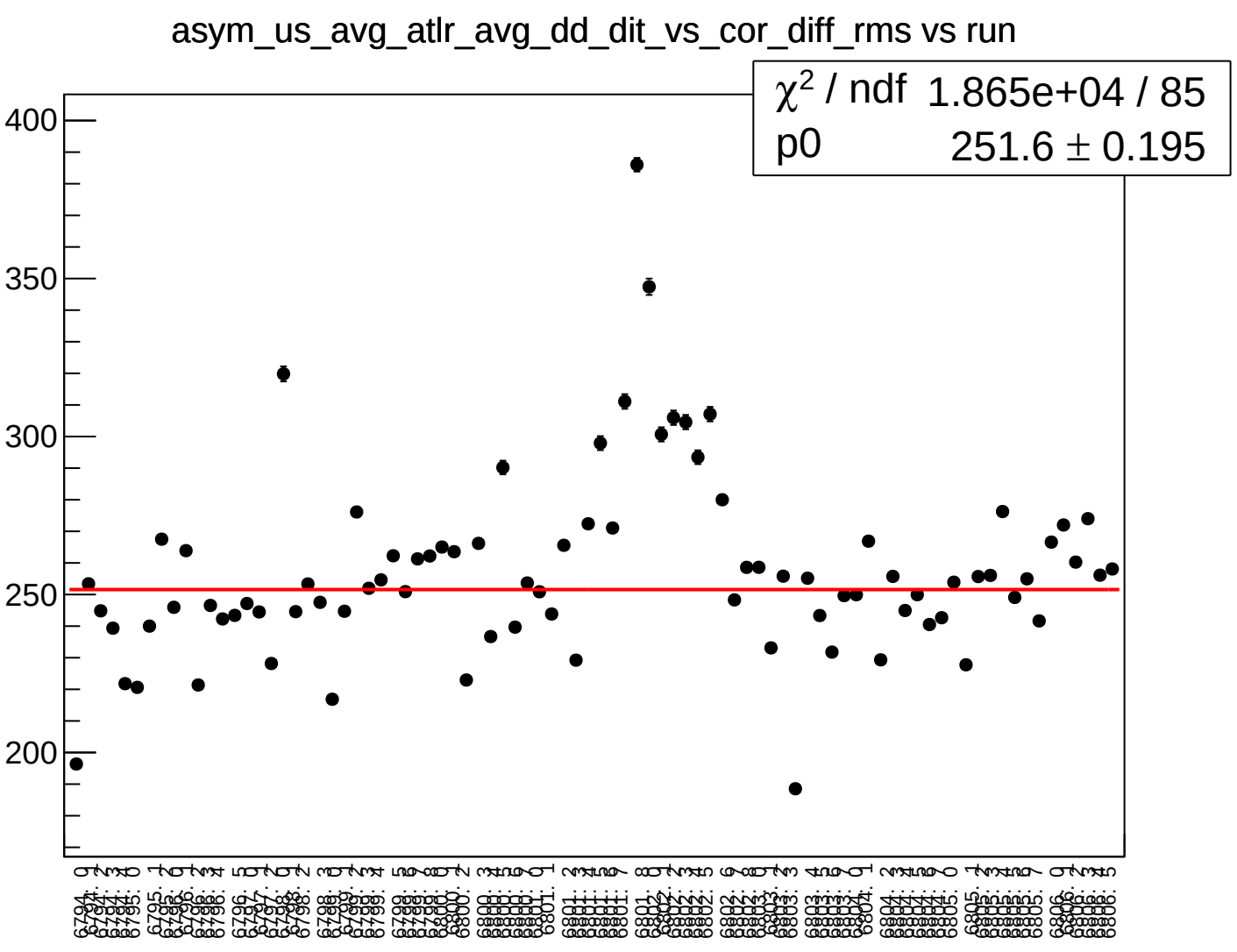

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 77.66 / 85
p0 1.992e−14 ± 8.398e−14
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 86
Mean −28.98
Std Dev 0
2
1
0
−1
−2

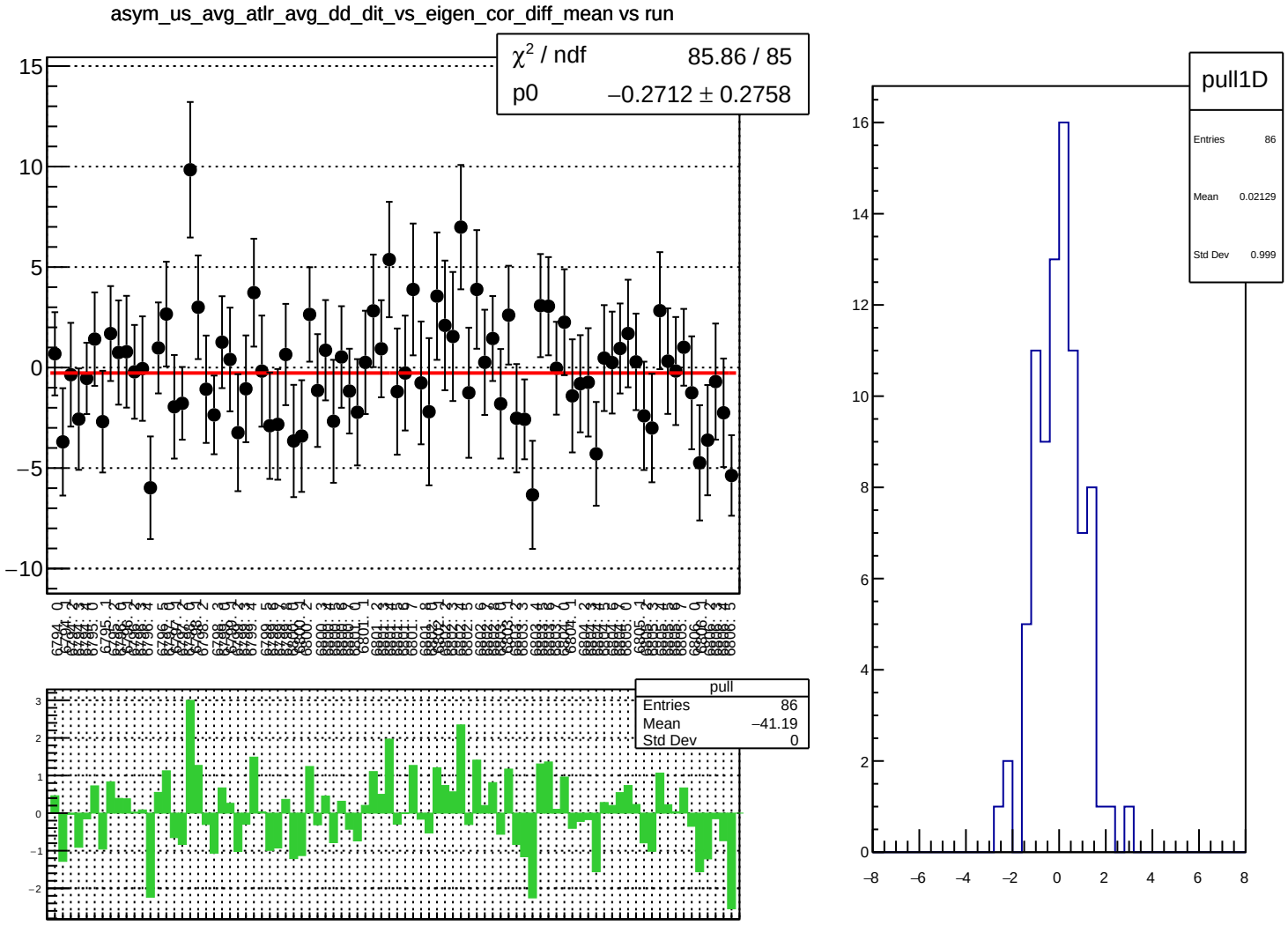

pull1D
Entries 86
Mean −0.02519
Std Dev 0.95
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

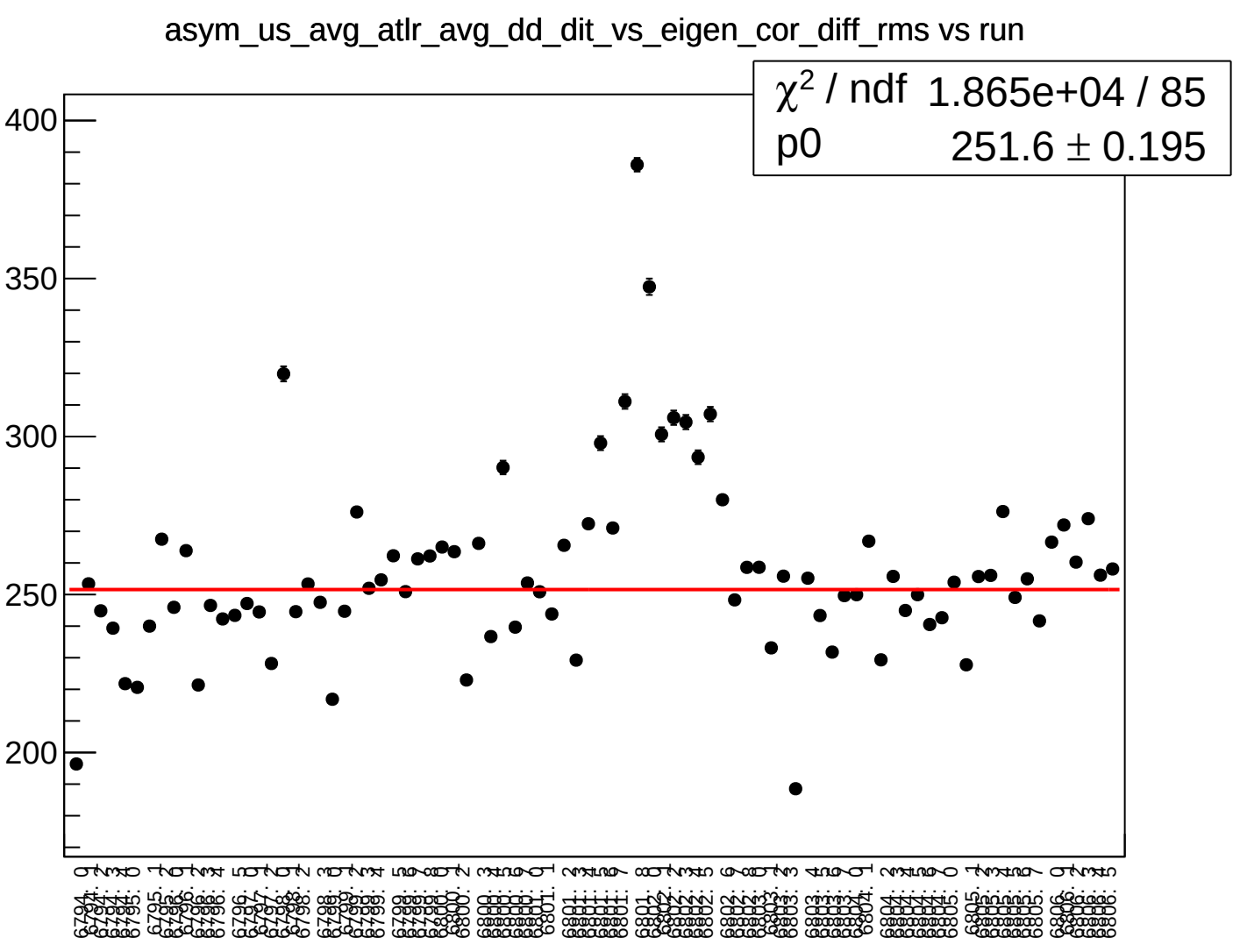

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.054e+06 / 85
p0 4.708e−11 ± 5.938e−14
1
0.8
0.6
0.4
0.2
0

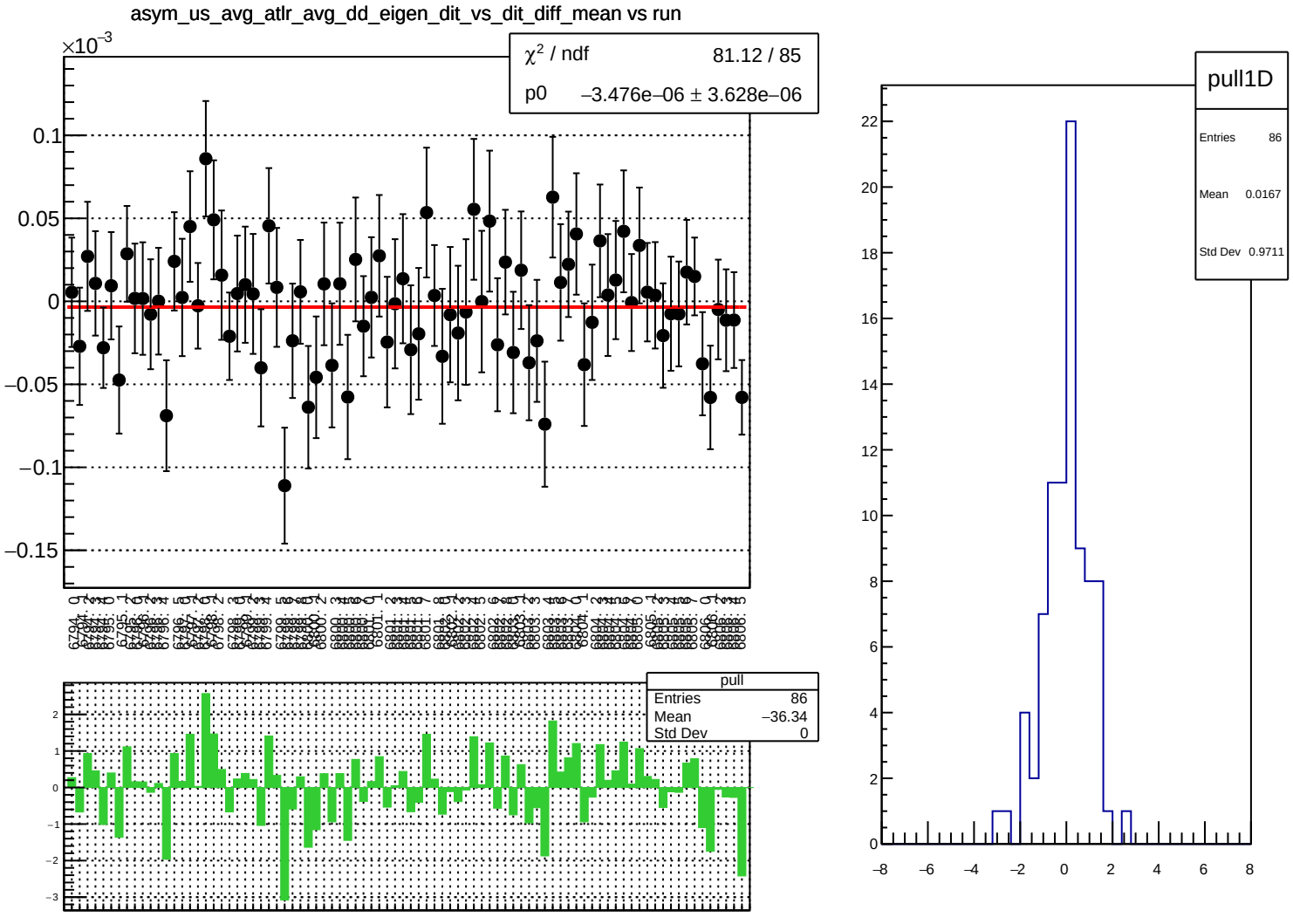

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.86 / 85
p0 −0.2712 ± 0.2758
pull
Entries 86
Mean −41.19
Std Dev 0

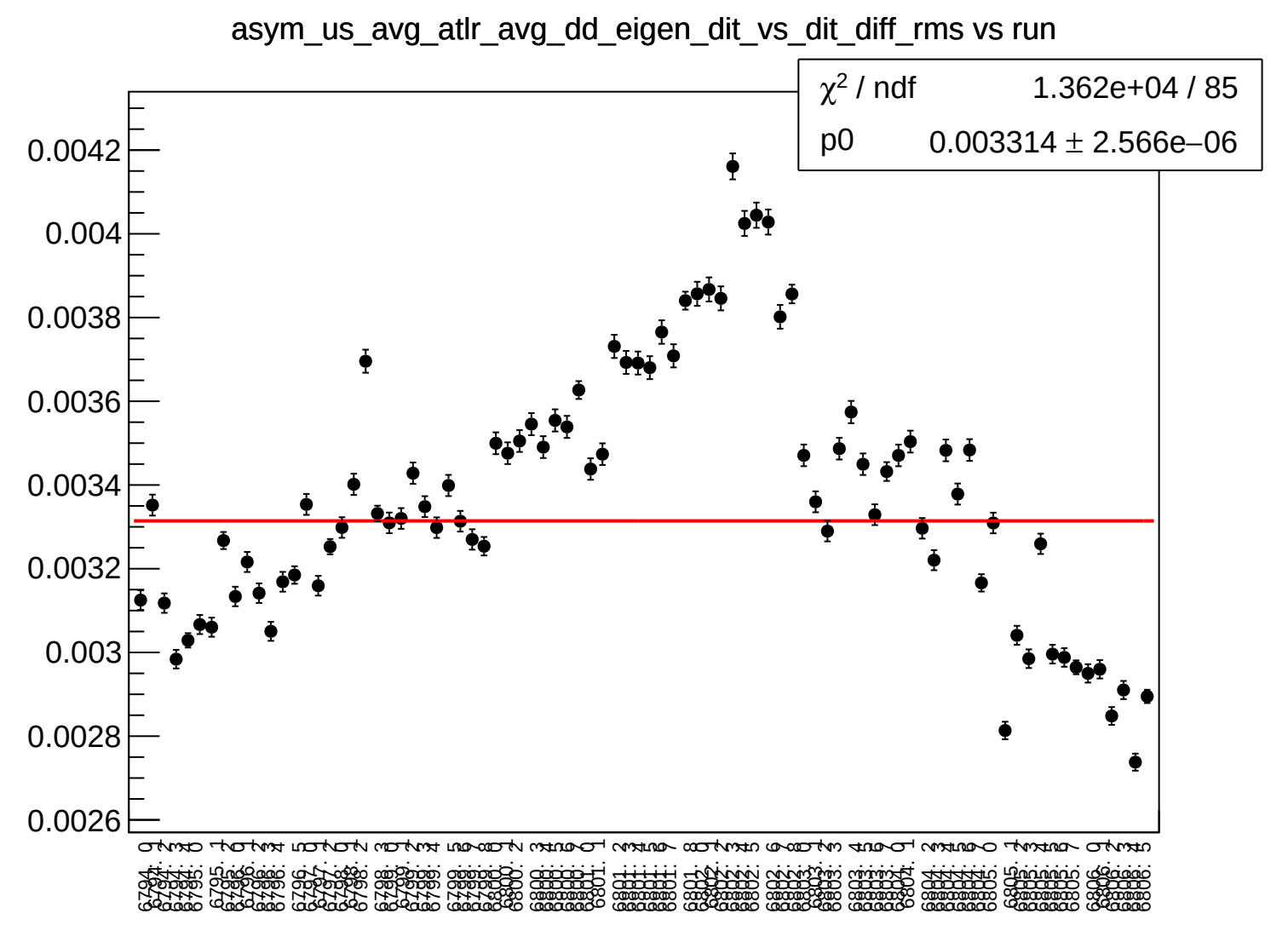

pull1D
Entries 86
Mean 0.02129
Std Dev 0.999

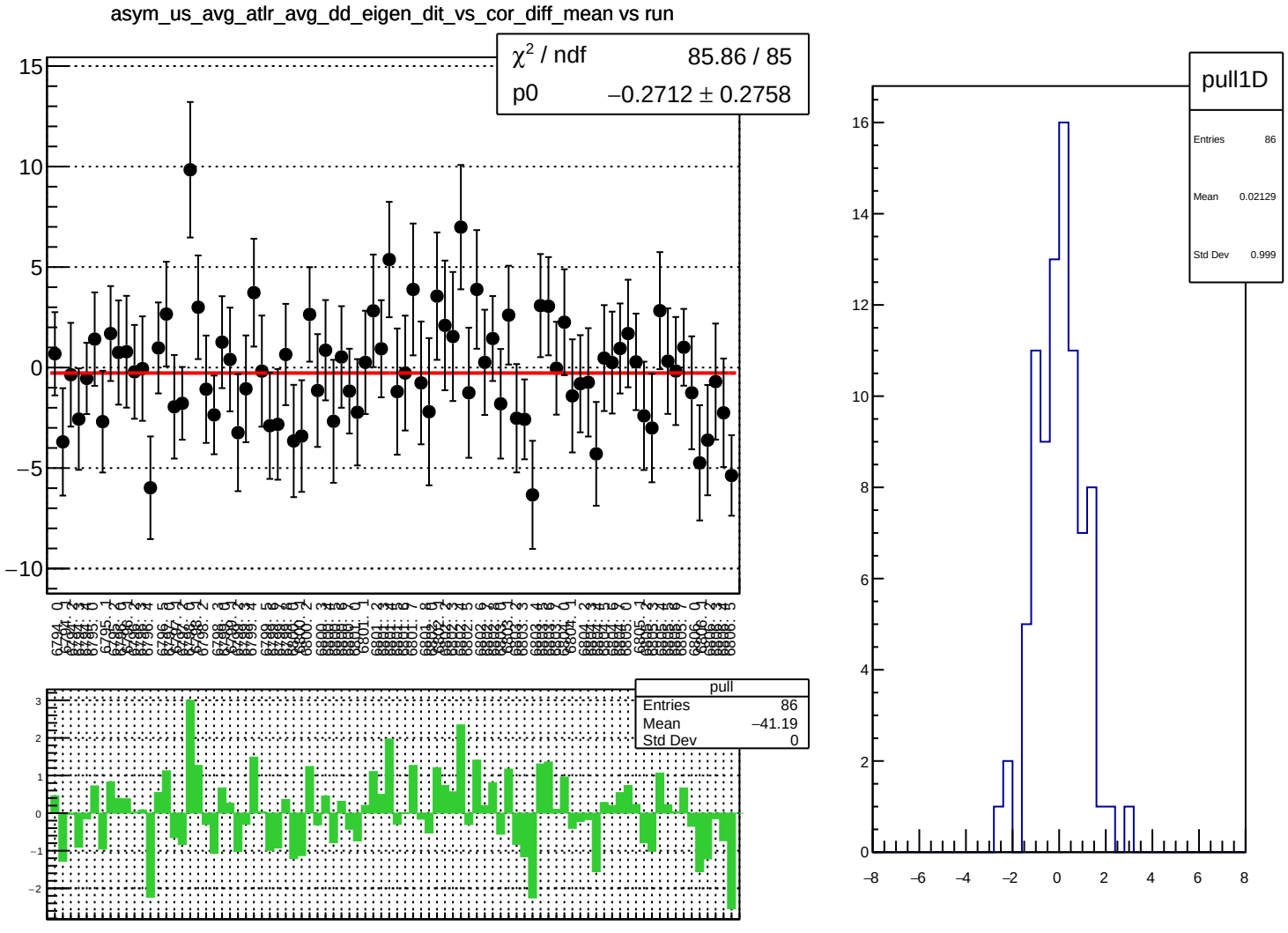

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 85
p0 251.6 ± 0.195
400
350
300
250
200

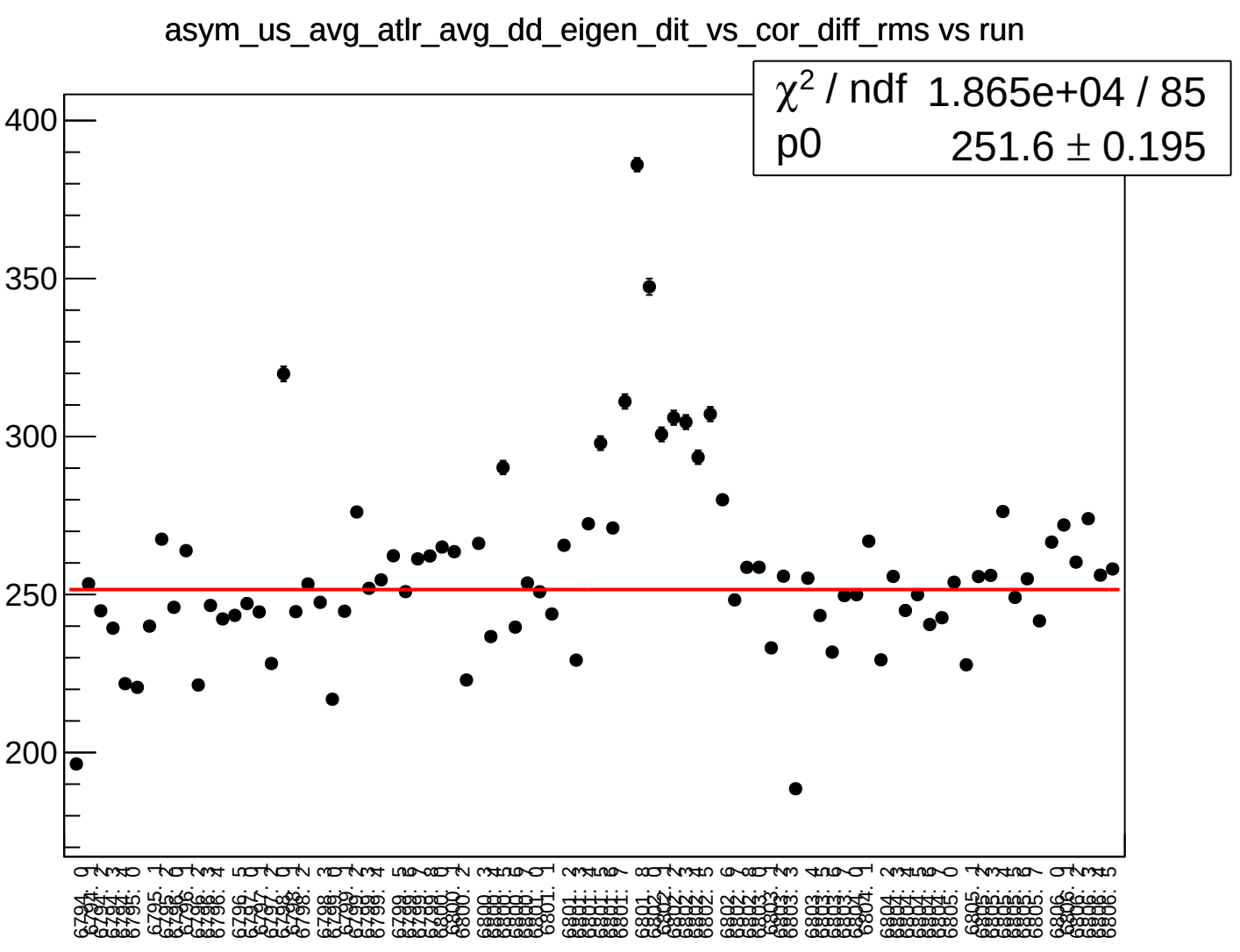

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.86 / 85
p0 −0.2712 ± 0.2758
pull
Entries 86
Mean −41.19
Std Dev 0
pull1D
Entries 86
Mean 0.02129
Std Dev 0.999

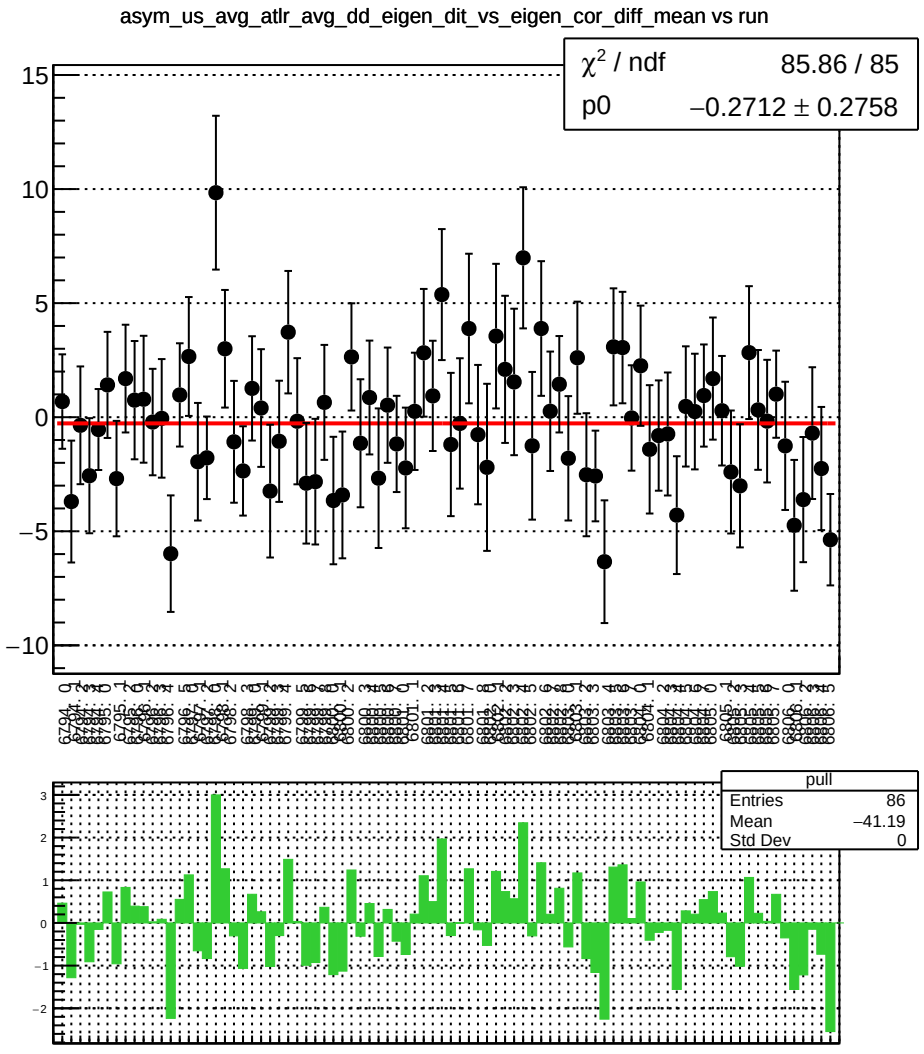

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 85
p0 251.6 ± 0.195
400
350
300
250
200

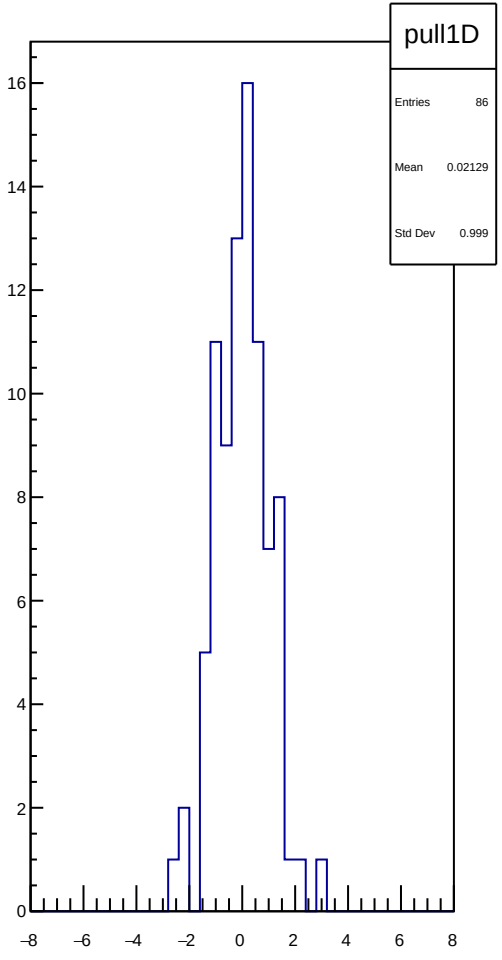

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.12 / 85
p0 −3.476e−06 ± 3.628e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −36.34
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.0167
Std Dev 0.9711
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

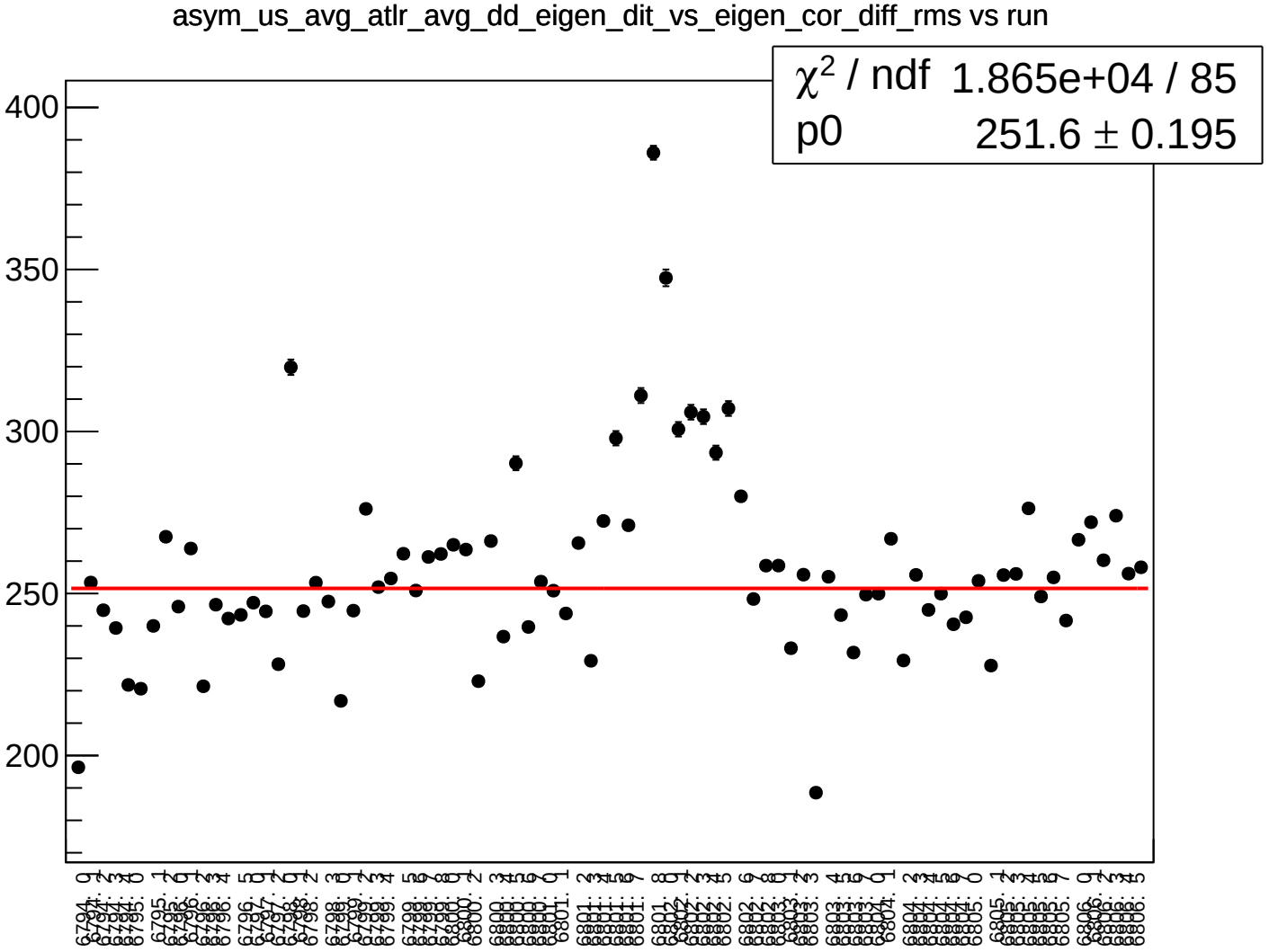

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.362e+04 / 85
p0 0.003314 ± 2.566e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

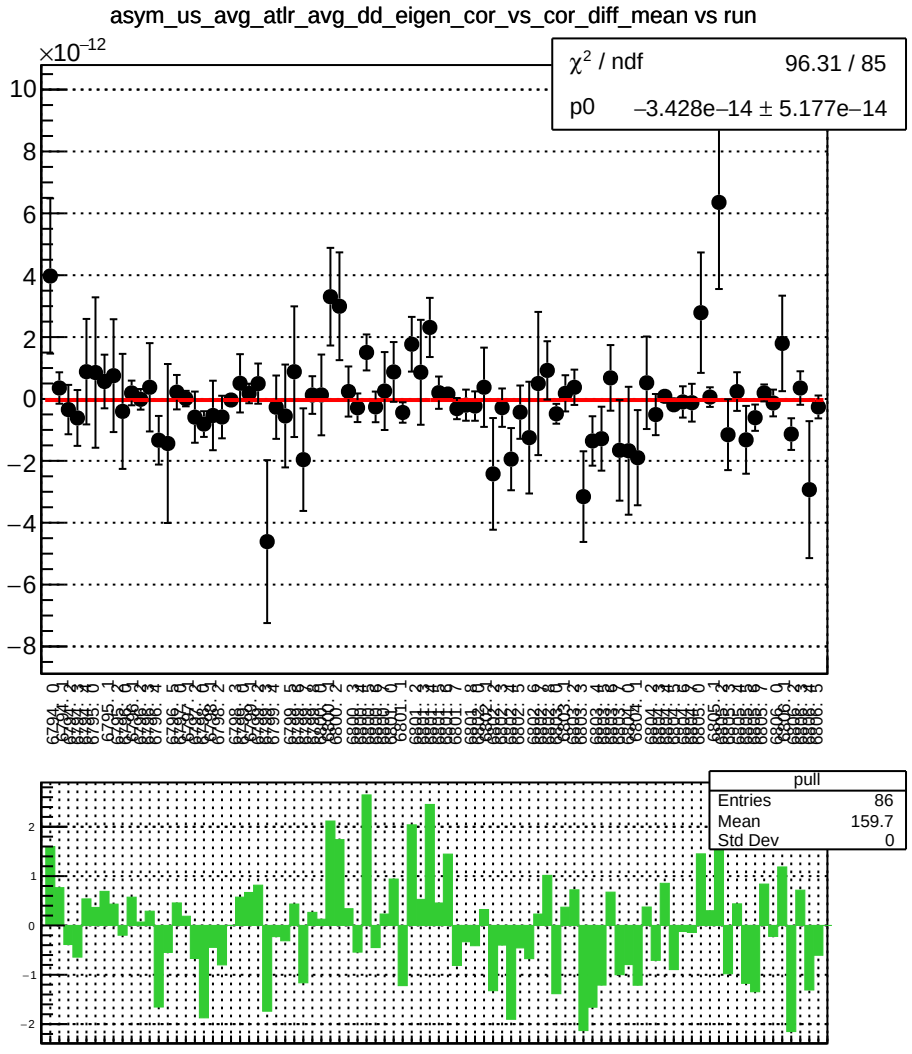

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.86 / 85
p0 −0.2712 ± 0.2758
pull
Entries 86
Mean −41.19
Std Dev 0
pull1D
Entries 86
Mean 0.02129
Std Dev 0.999

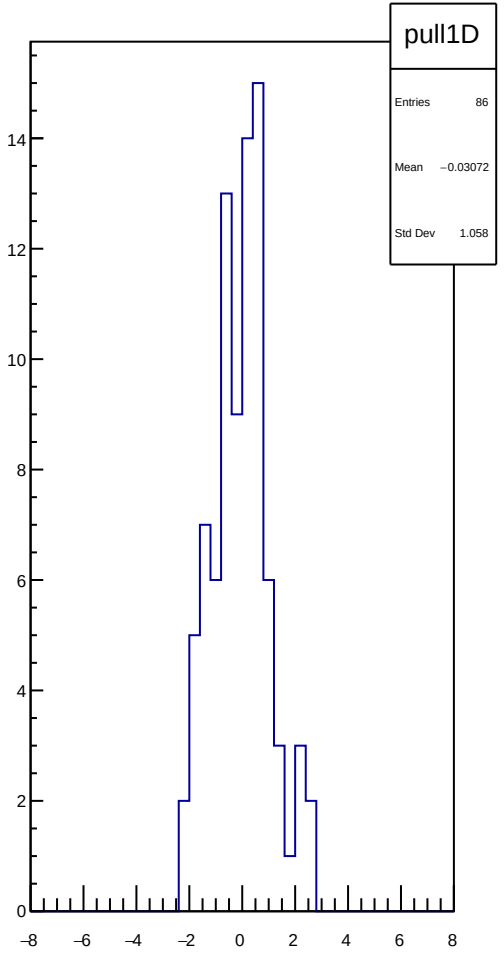

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 85
p0 251.6 ± 0.195
400
350
300
250
200

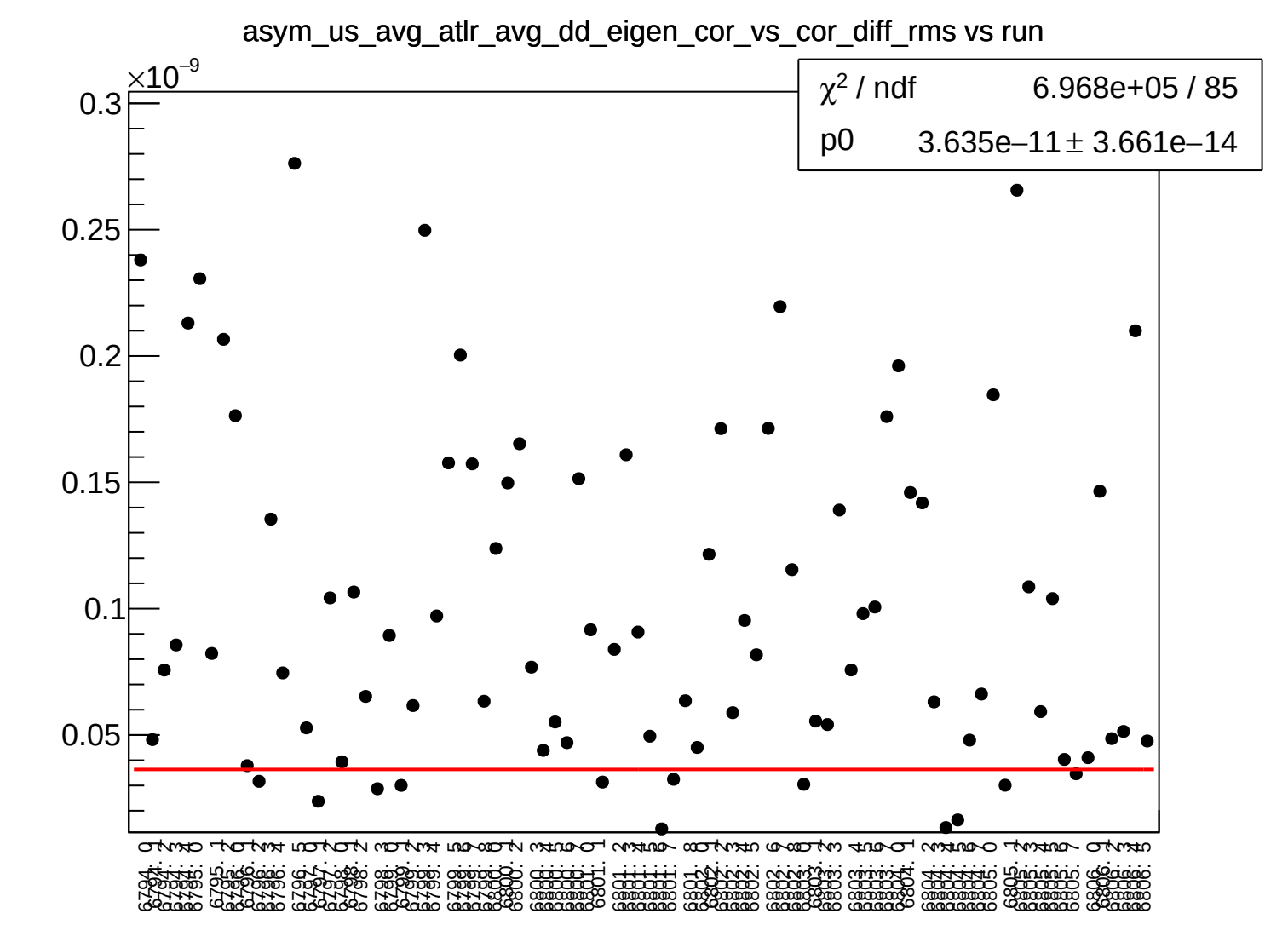

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.86 / 85
p0 −0.2712 ± 0.2758
pull
Entries 86
Mean −41.19
Std Dev 0

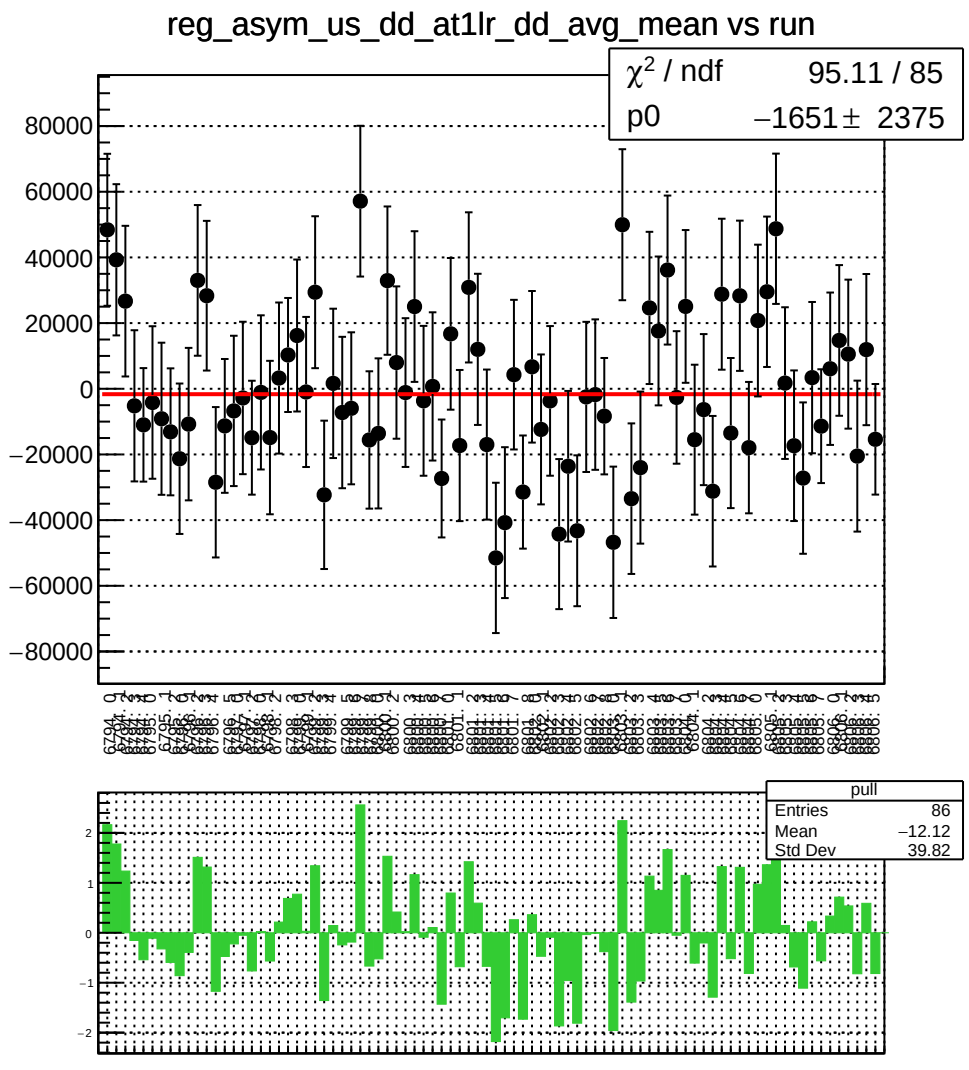

pull1D
Entries 86
Mean 0.02129
Std Dev 0.999

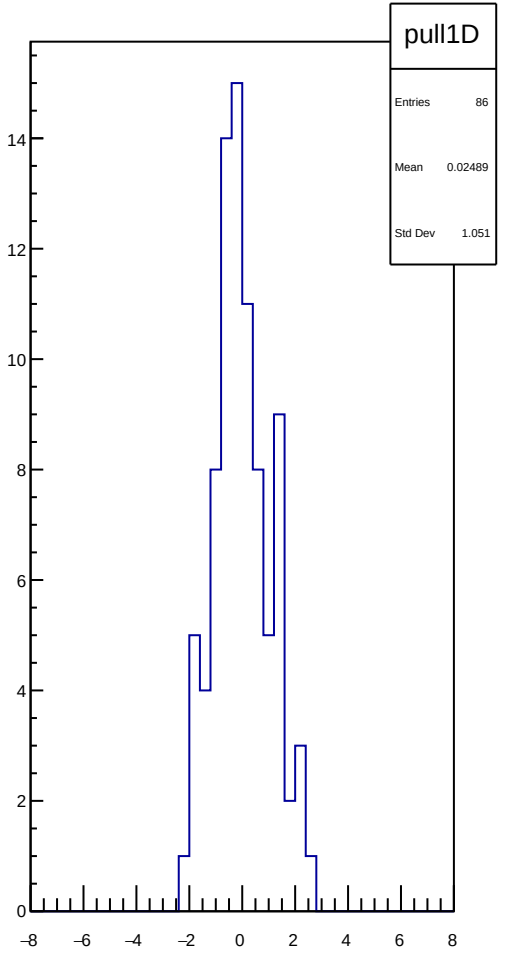

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.865e+04 / 85
p0 251.6 ± 0.195
400
350
300
250
200

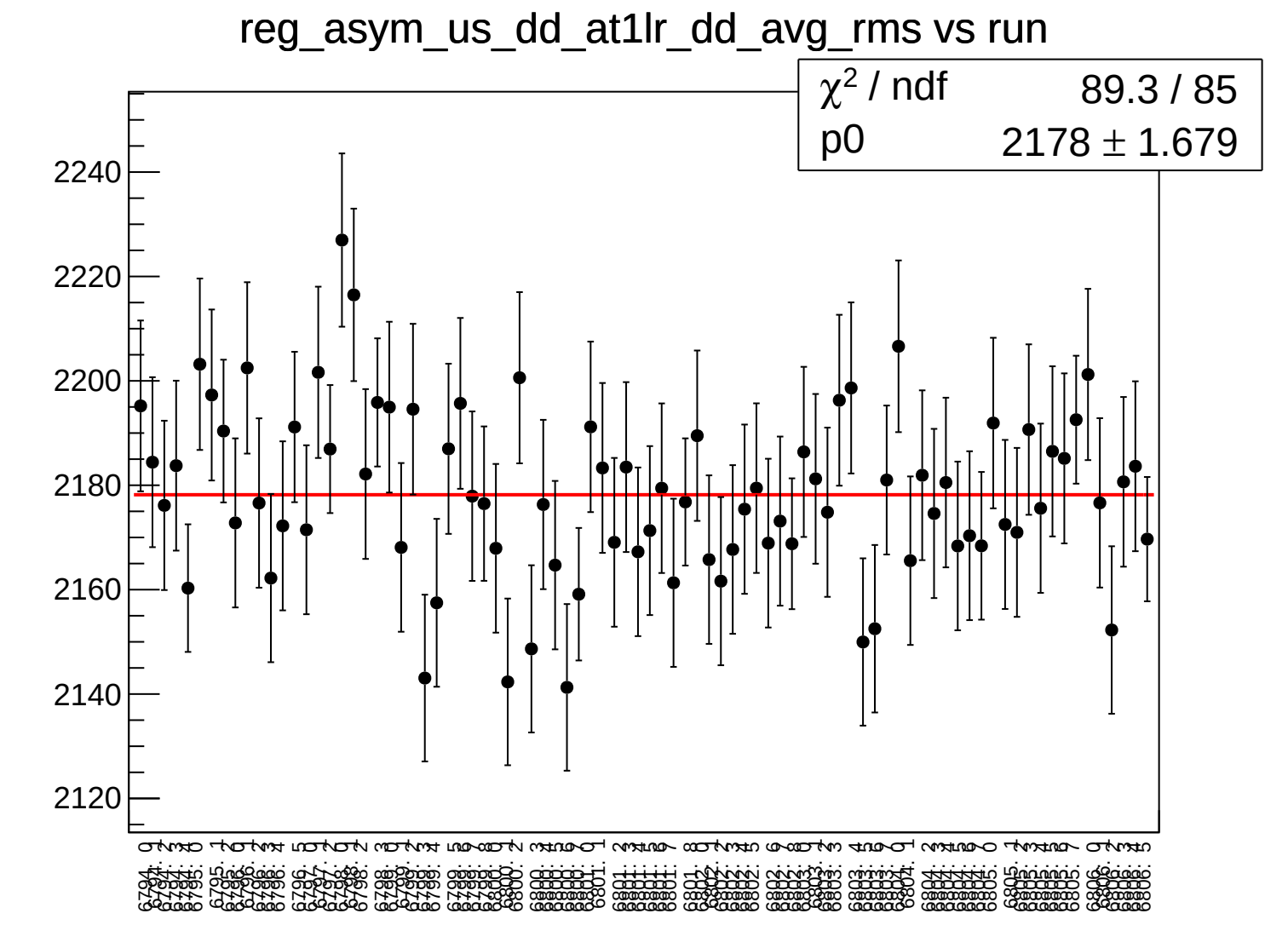

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.31 / 85
p0 −3.428e−14 ± 5.177e−14
pull
Entries 86
Mean 159.7
Std Dev 0

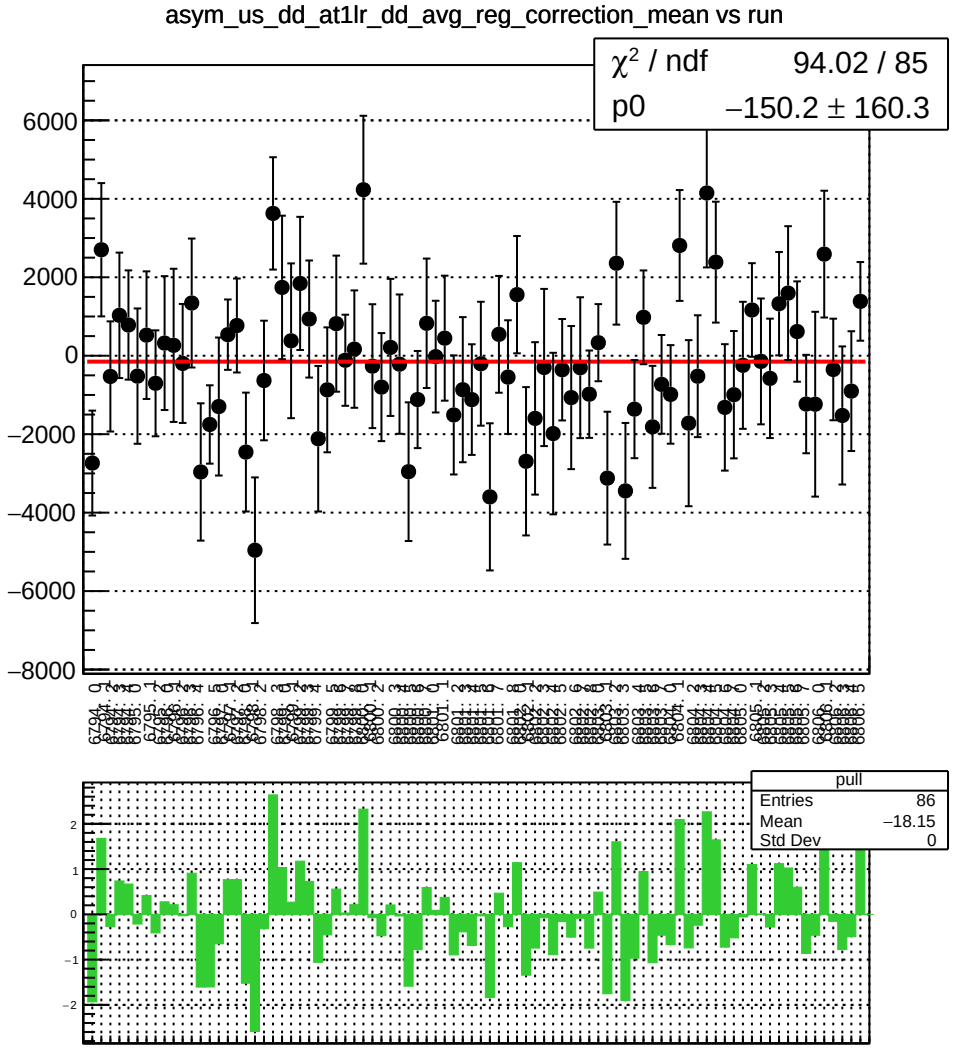

pull1D
Entries 86
Mean −0.03072
Std Dev 1.058

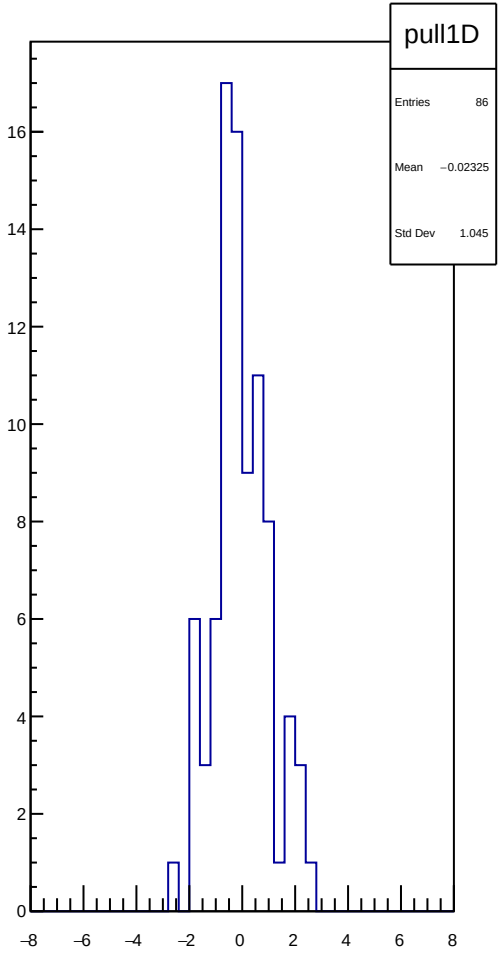

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.968e+05 / 85
p0 3.635e−11 ± 3.661e−14

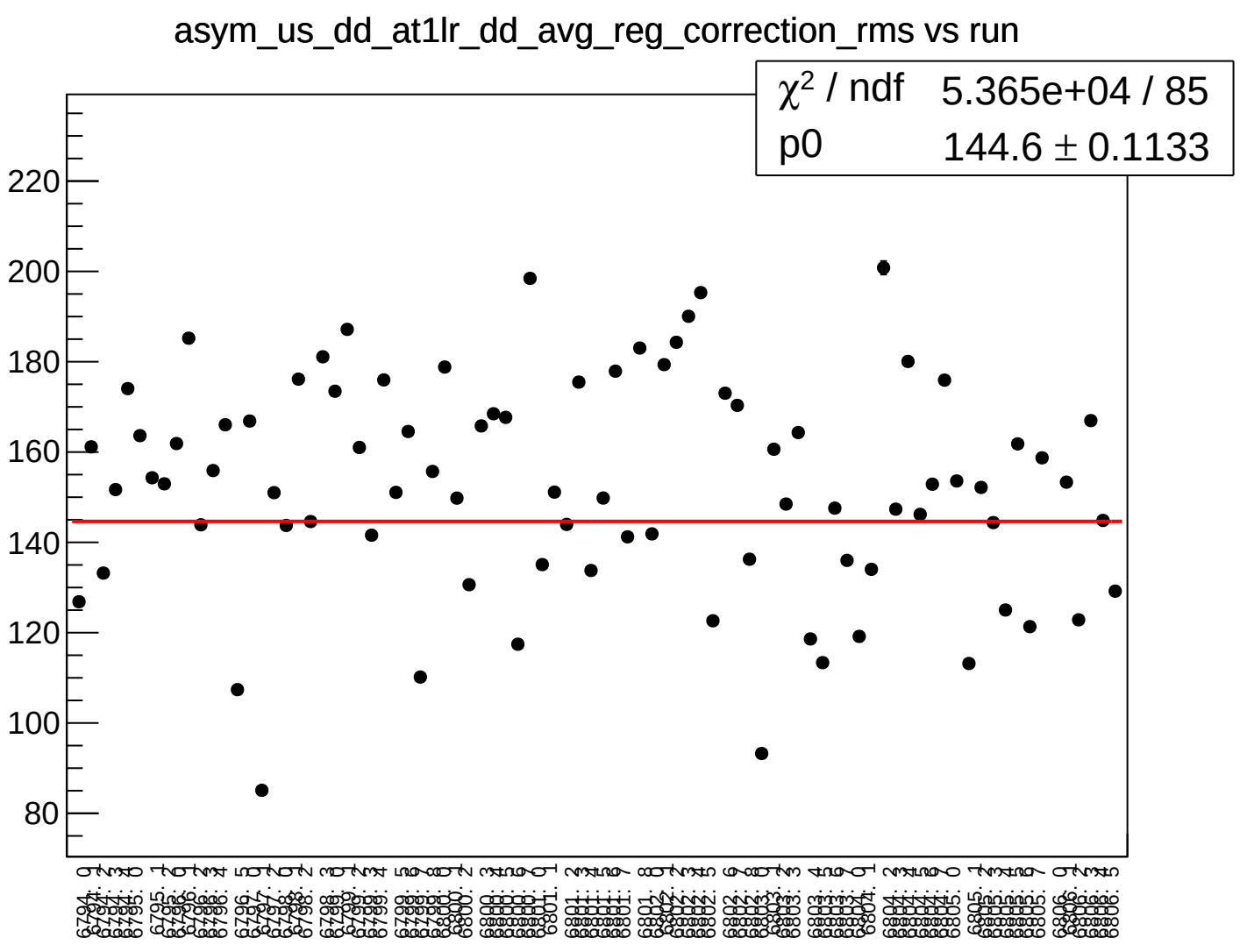

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.11 / 85
p0 −1651 ± 2375
pull
Entries 86
Mean −12.12
Std Dev 39.82

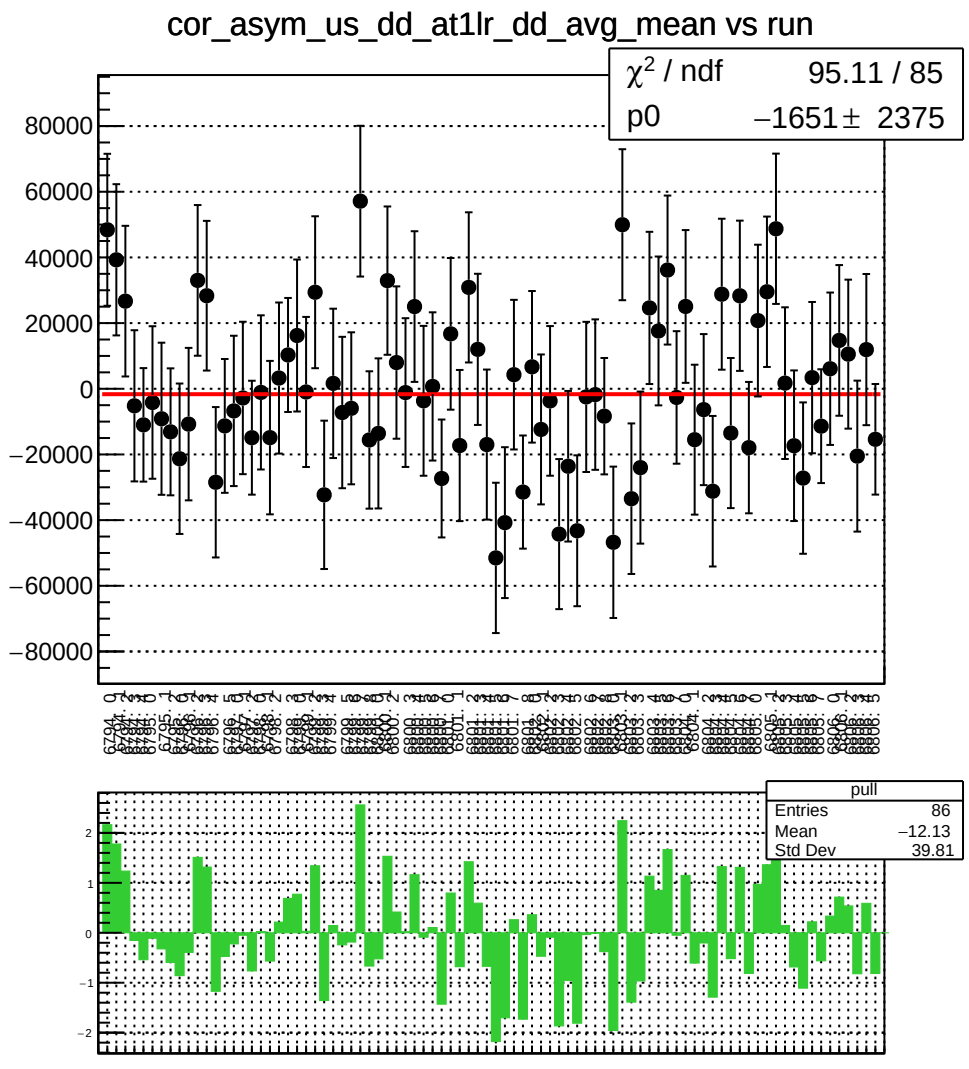

pull1D
Entries 86
Mean 0.02489
Std Dev 1.051

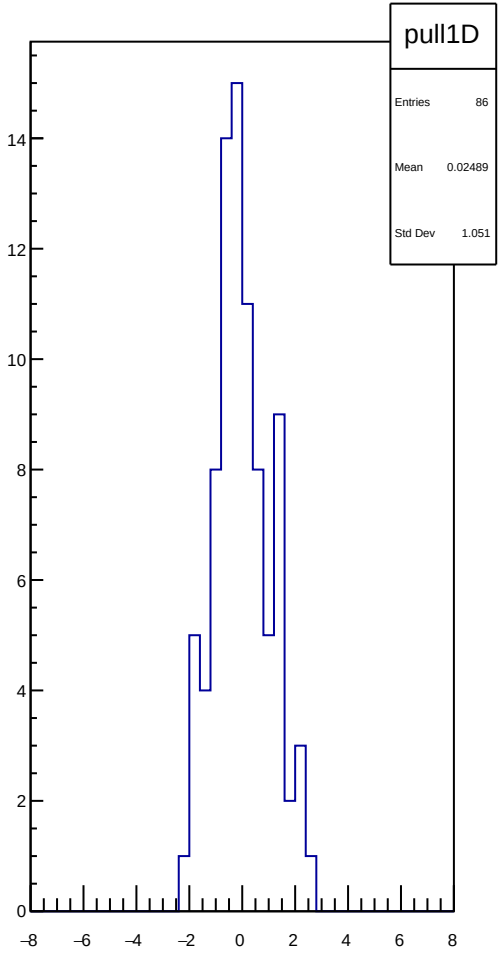

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 89.3 / 85
p0 2178 ± 1.679
2240
2220
2200
2180
2160
2140
2120

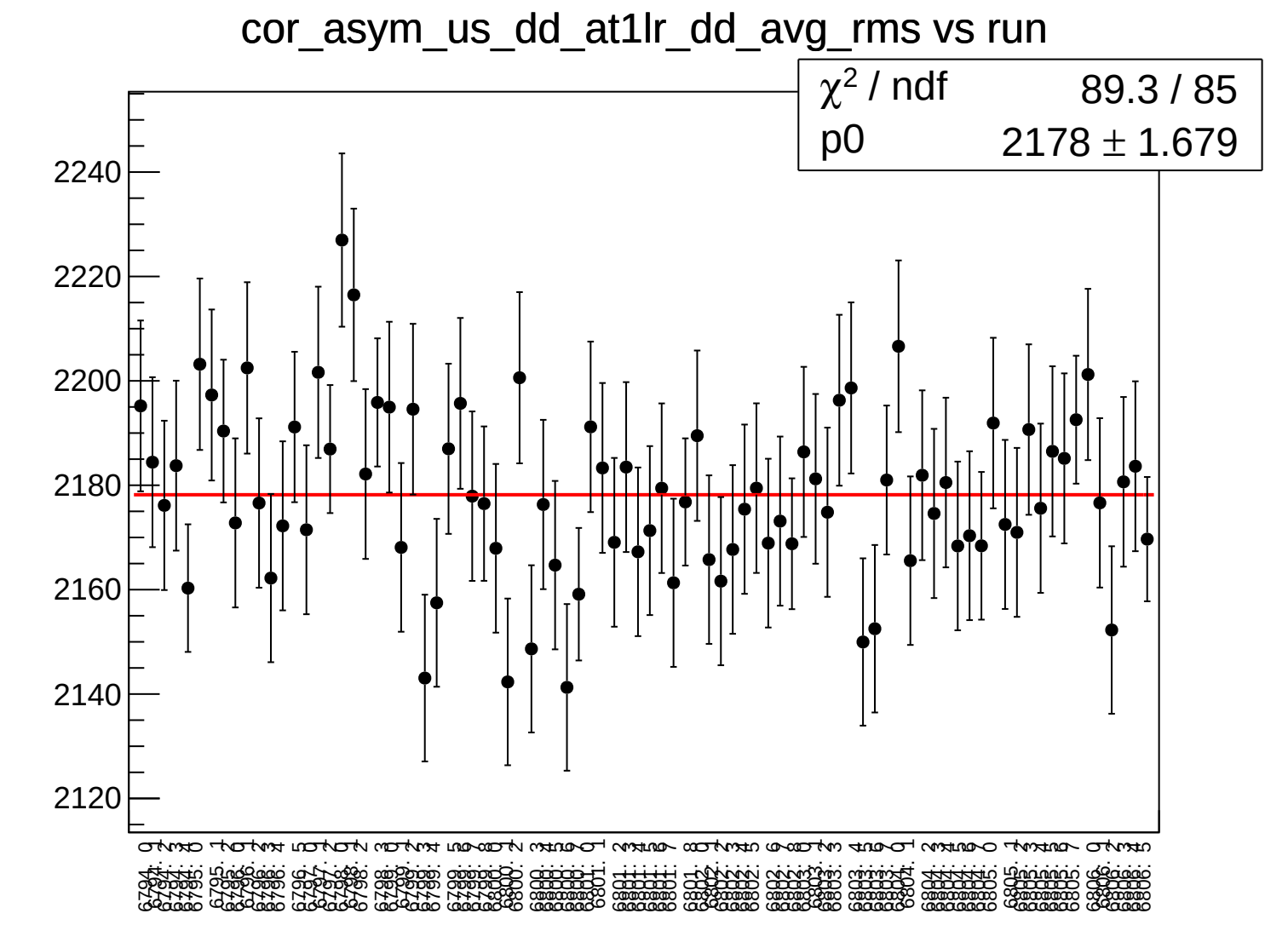

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 94.02 / 85
p0 −150.2 ± 160.3
pull
Entries 86
Mean −18.15
Std Dev 0

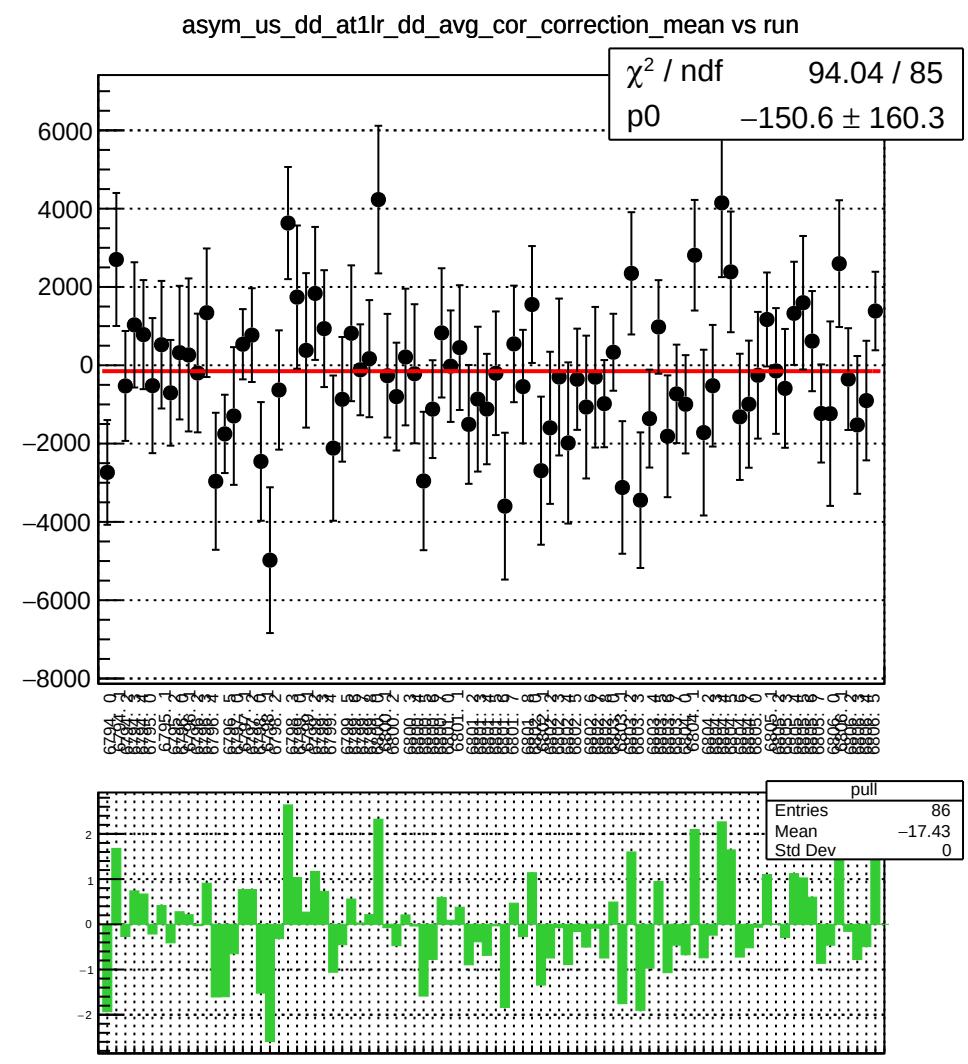

pull1D
Entries 86
Mean −0.02325
Std Dev 1.045

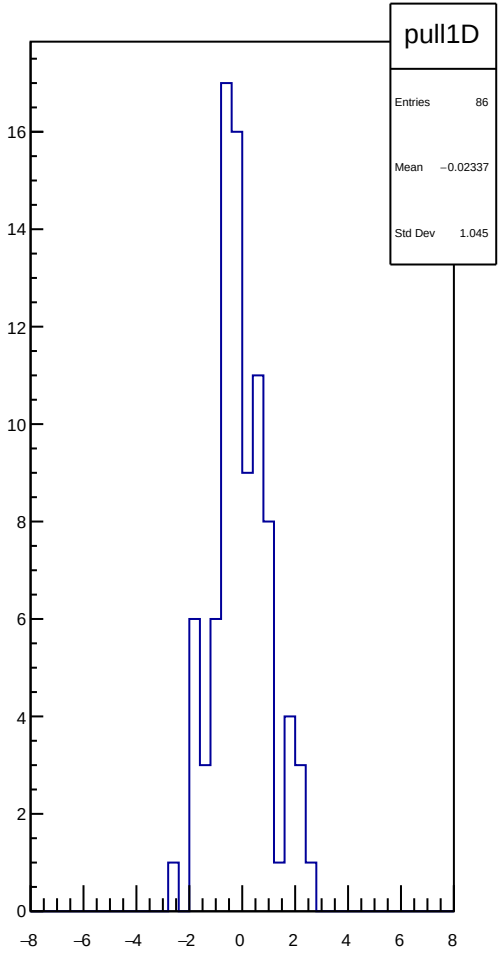

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 5.365e+04 / 85
p0 144.6 ± 0.1133
220
200
180
160
140
120
100
80

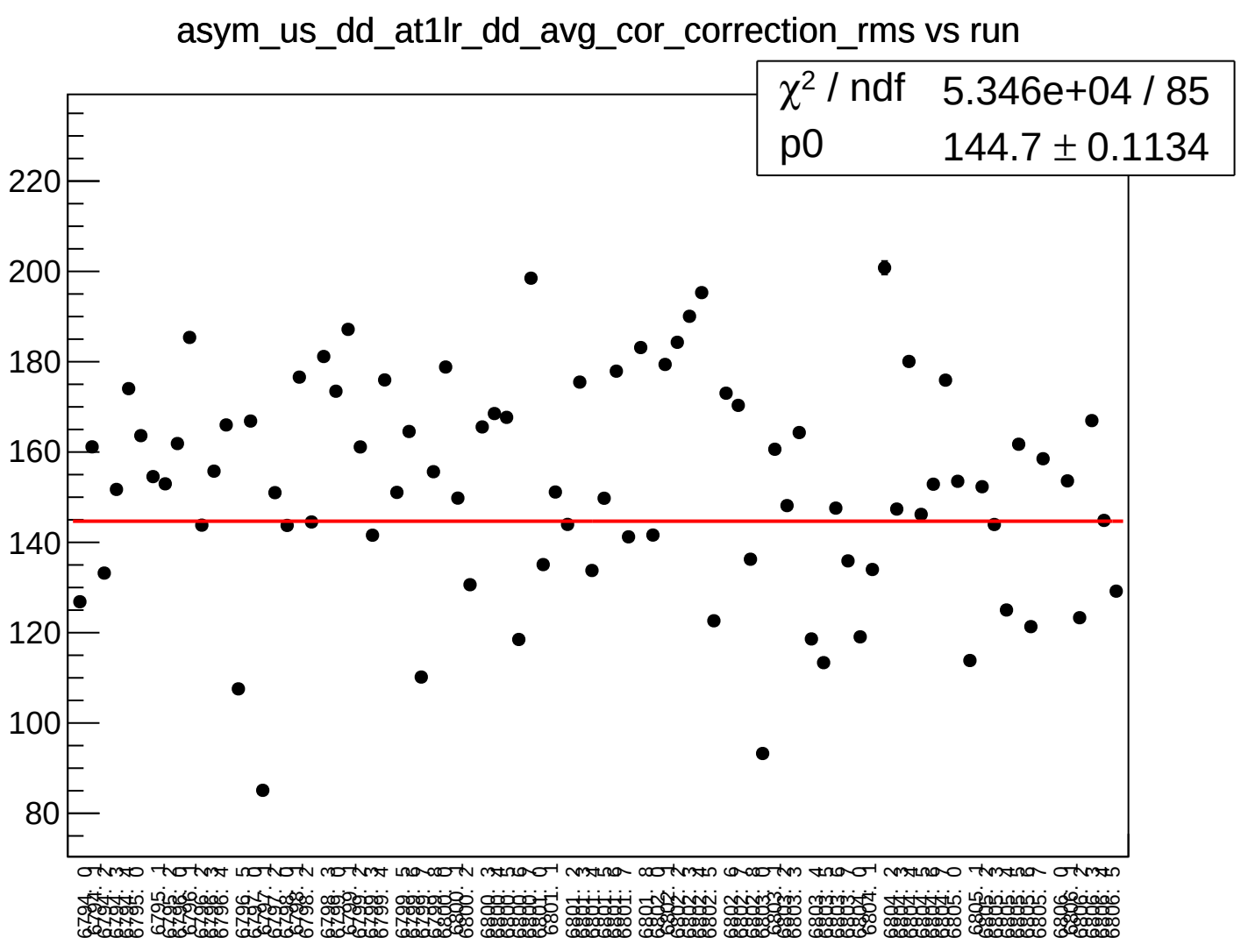

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.11 / 85
p0 −1651 ± 2375
pull
Entries 86
Mean −12.13
Std Dev 39.81

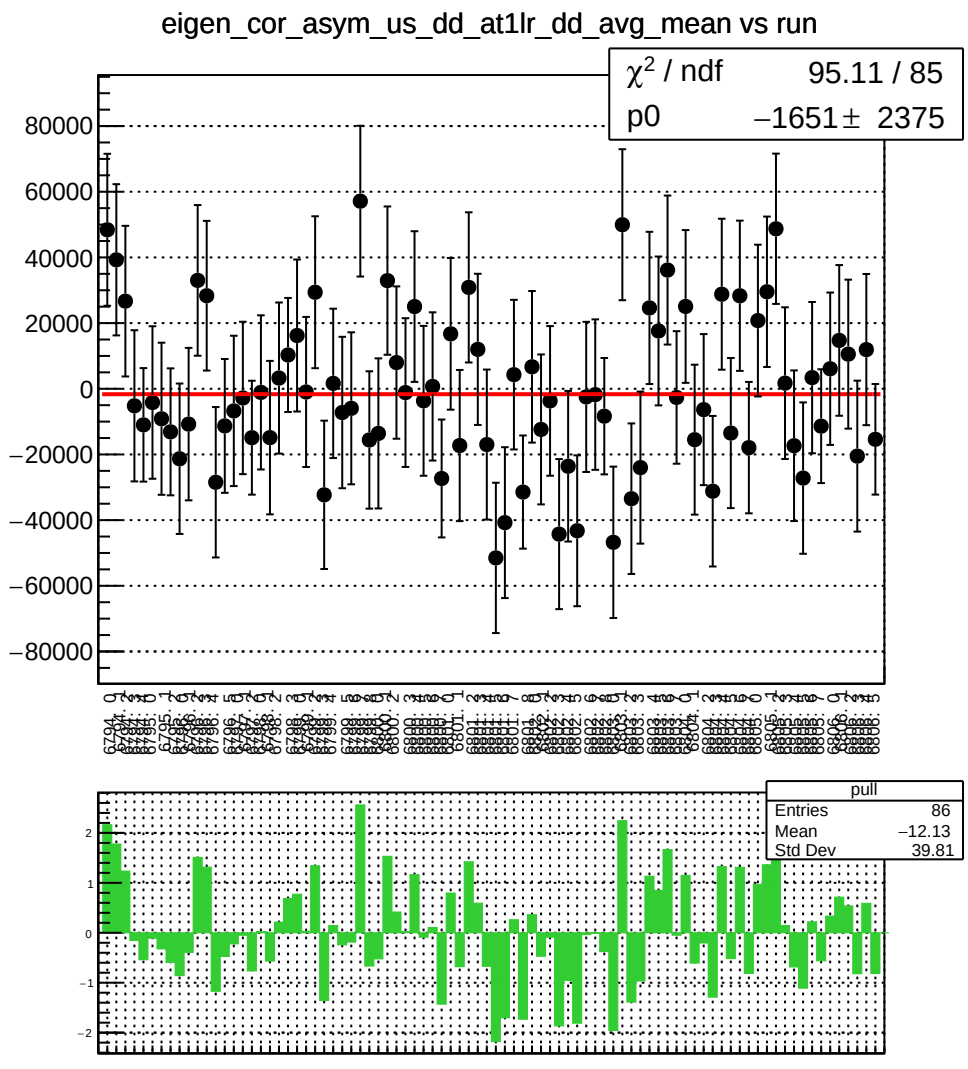

pull1D
Entries 86
Mean 0.02489
Std Dev 1.051

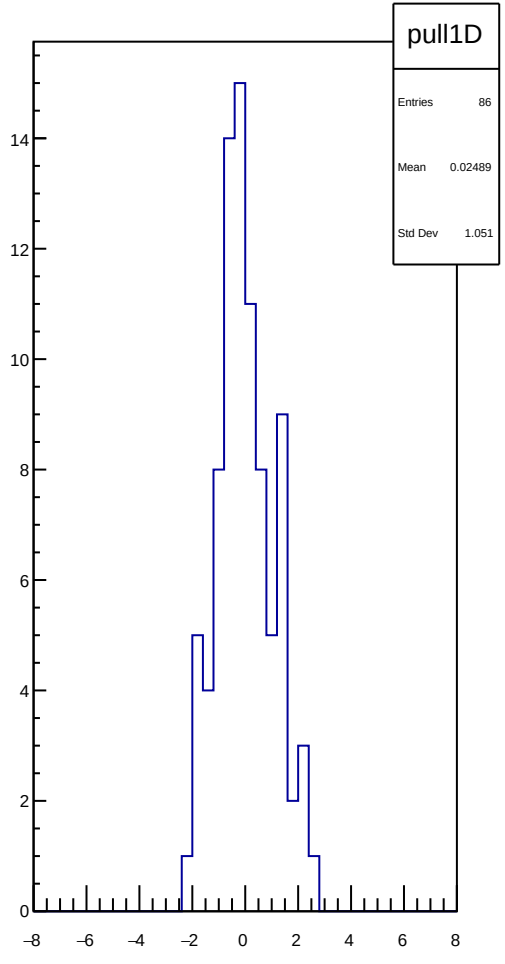

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 89.3 / 85
p0 2178 ± 1.679
2240
2220
2200
2180
2160
2140
2120

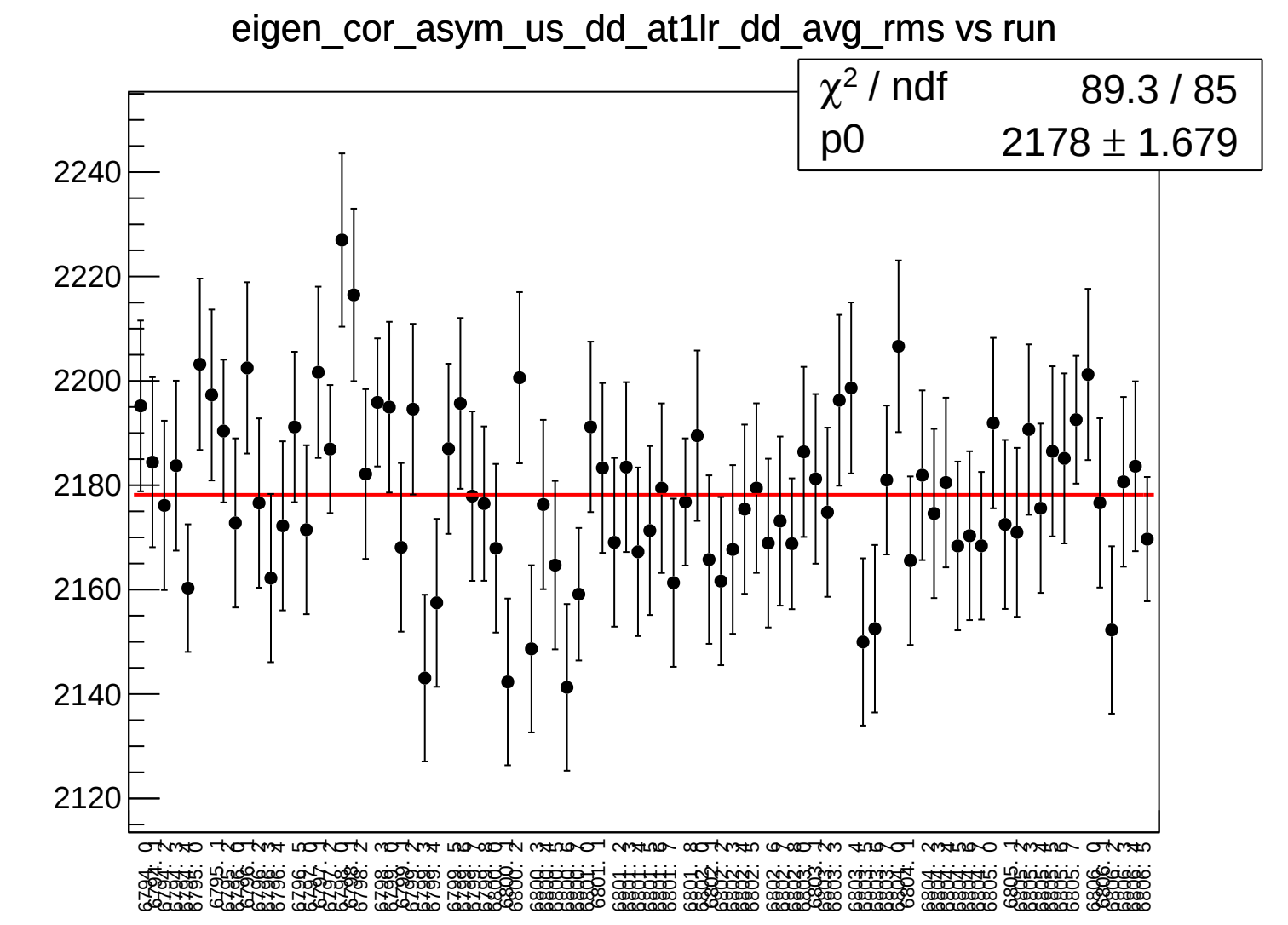

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 94.04 / 85
p0 −150.6 ± 160.3
pull
Entries 86
Mean −17.43
Std Dev 0

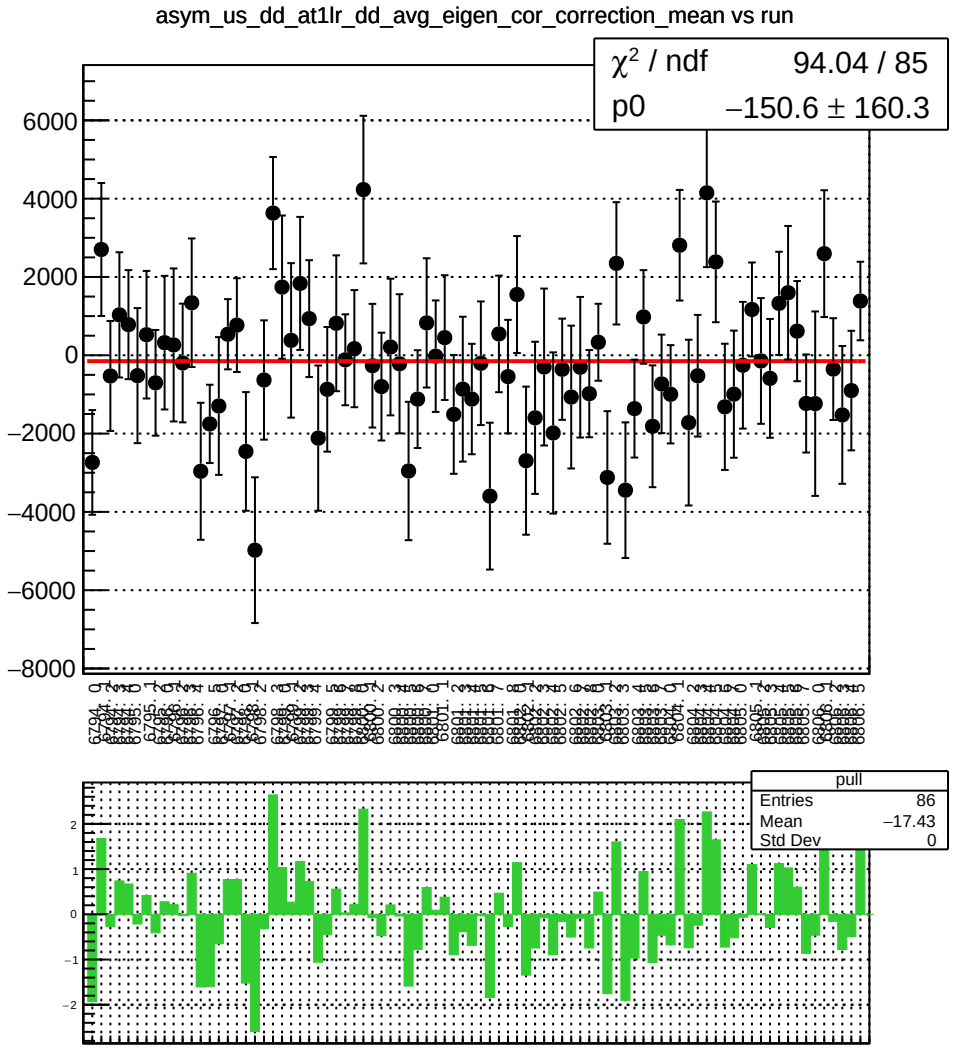

pull1D
Entries 86
Mean −0.02337
Std Dev 1.045

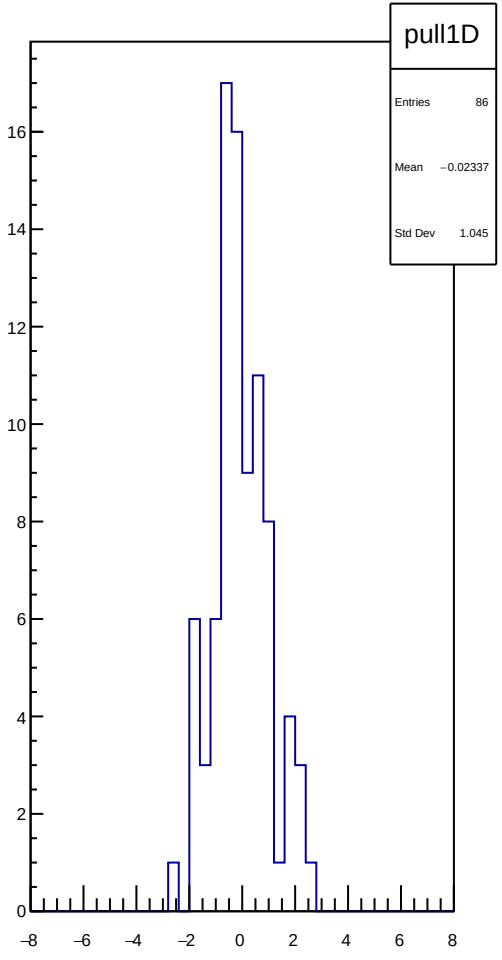

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 5.346e+04 / 85
p0 144.7 ± 0.1134
220
200
180
160
140
120
100
80

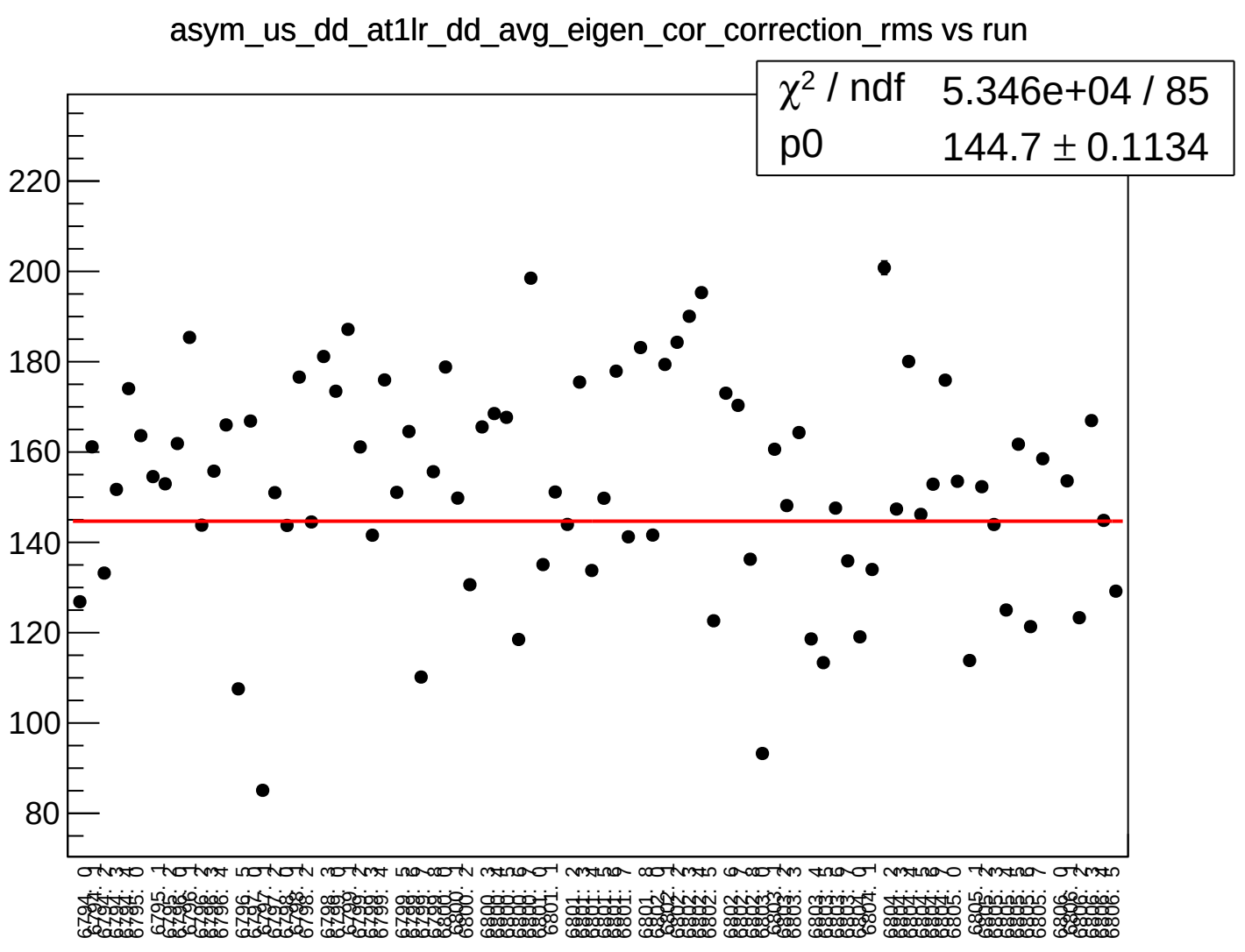

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 95.11 / 85
p0 −1651 ± 2375
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −12.13
Std Dev 39.81
2
1
0
−1
−2

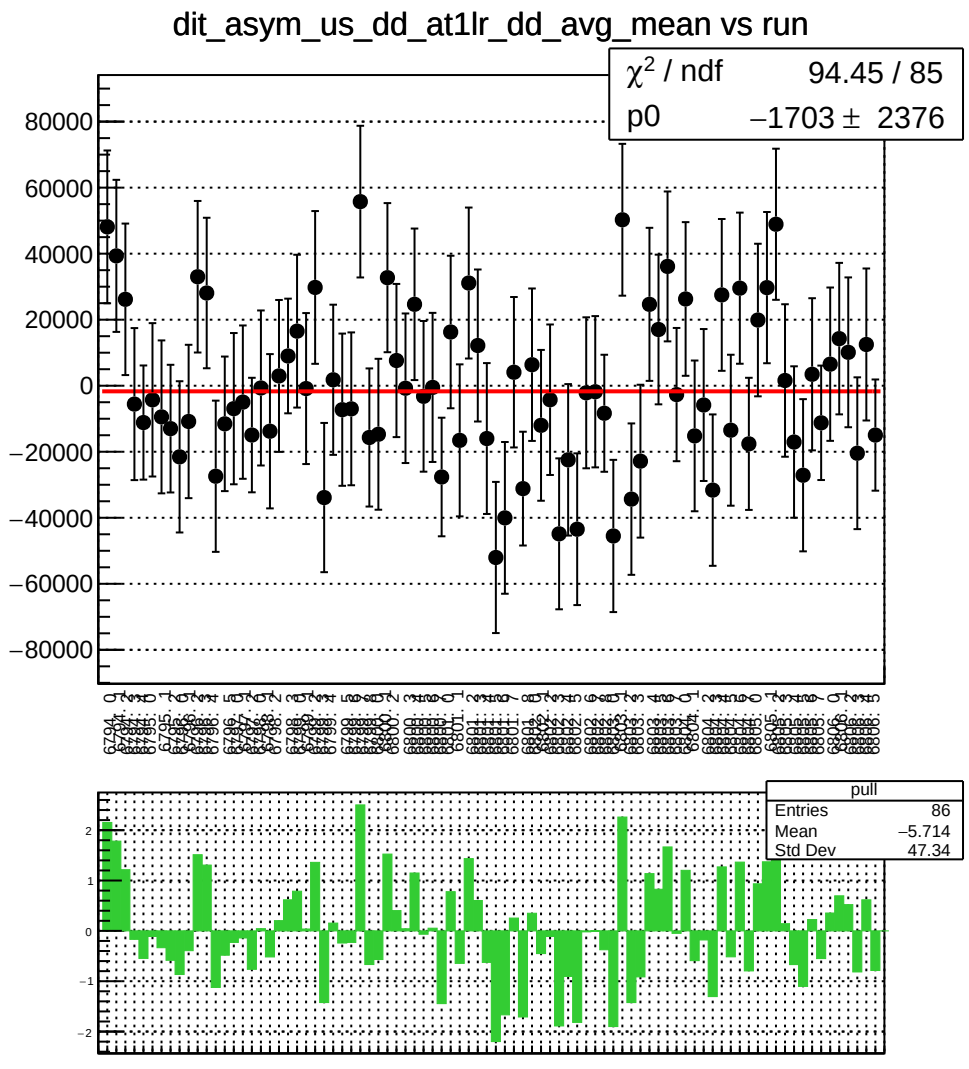

pull1D
Entries 86
Mean 0.02489
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

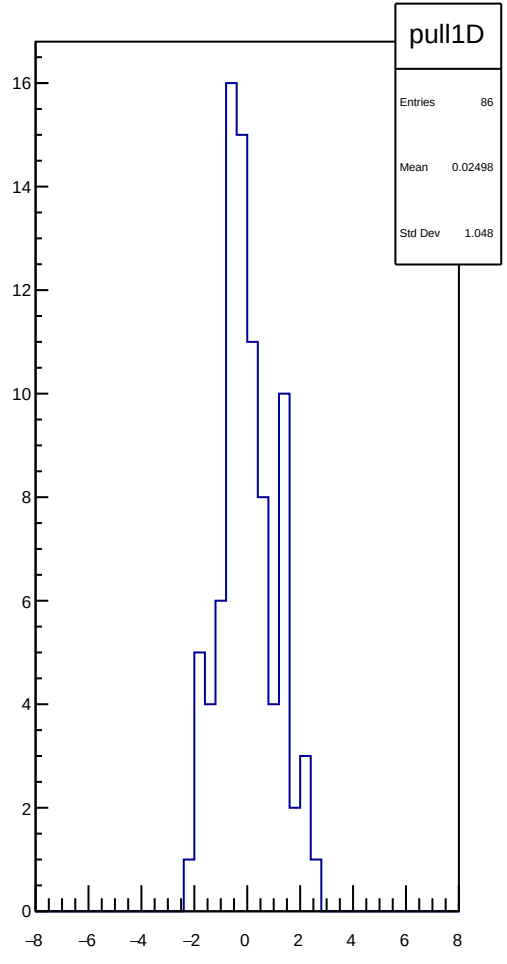

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 89.3 / 85
p0 2178 ± 1.679
2240
2220
2200
2180
2160
2140
2120

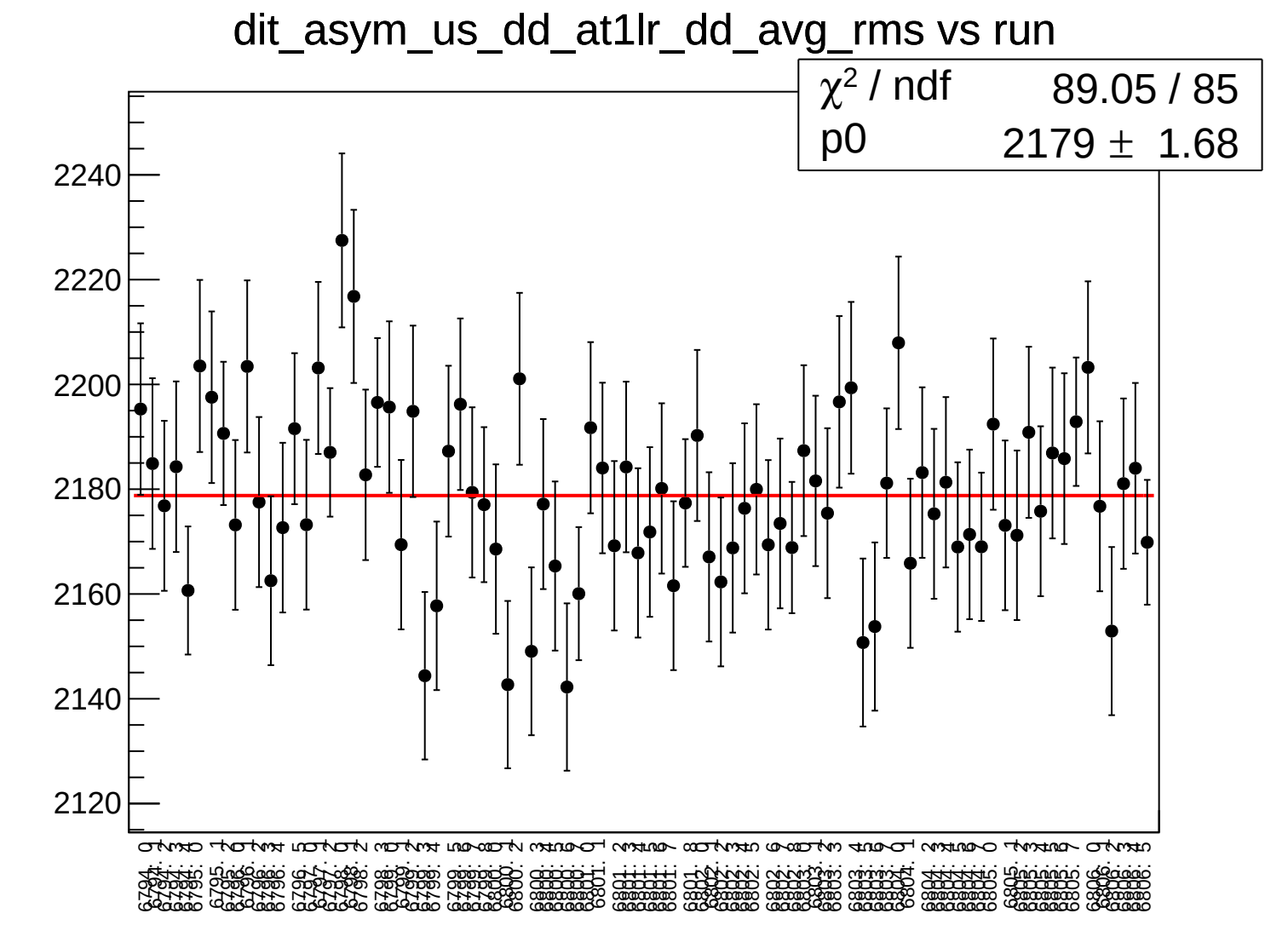

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.04 / 85
p0 −150.6 ± 160.3
pull
Entries 86
Mean −17.43
Std Dev 0

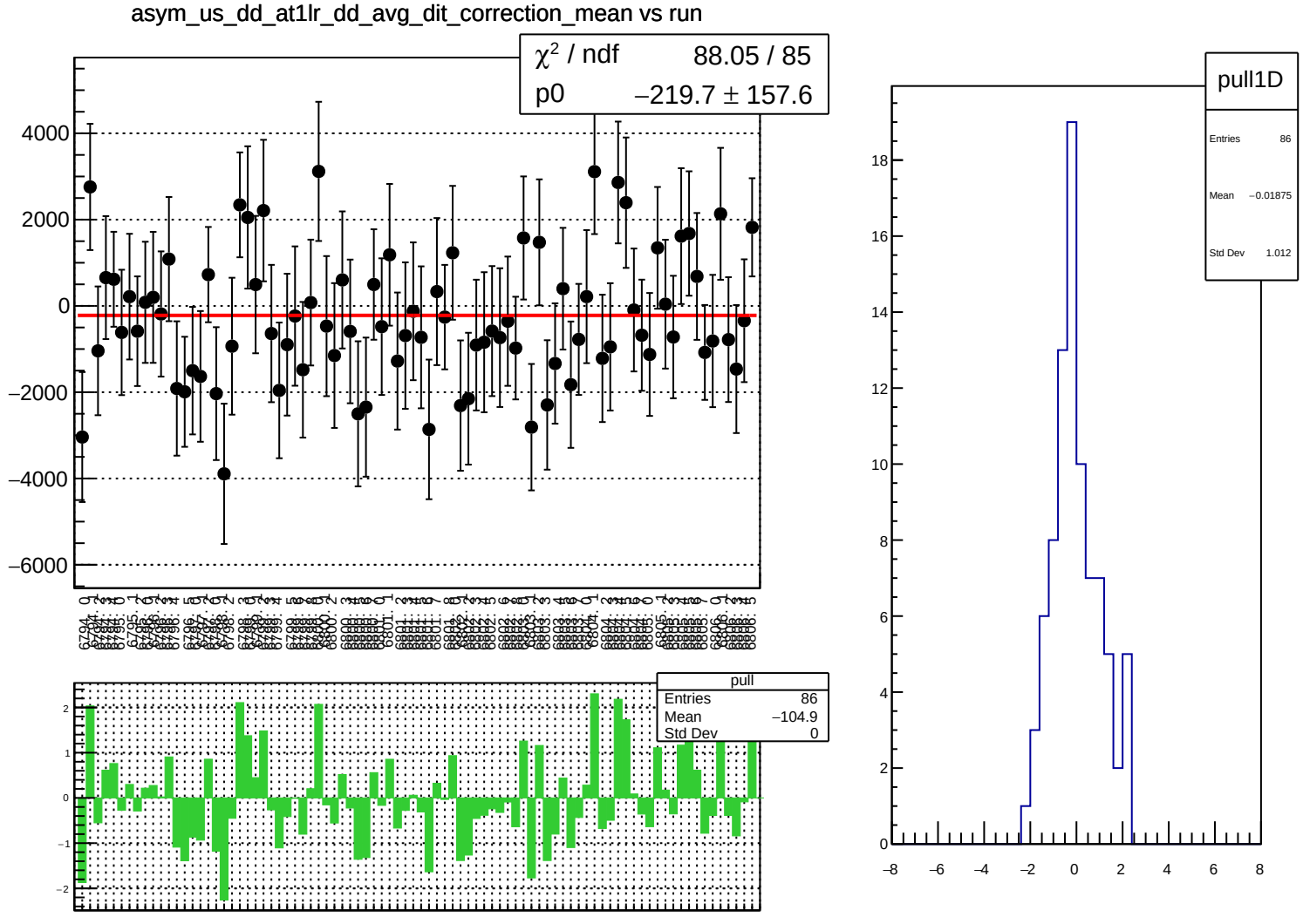

pull1D
Entries 86
Mean −0.02337
Std Dev 1.045

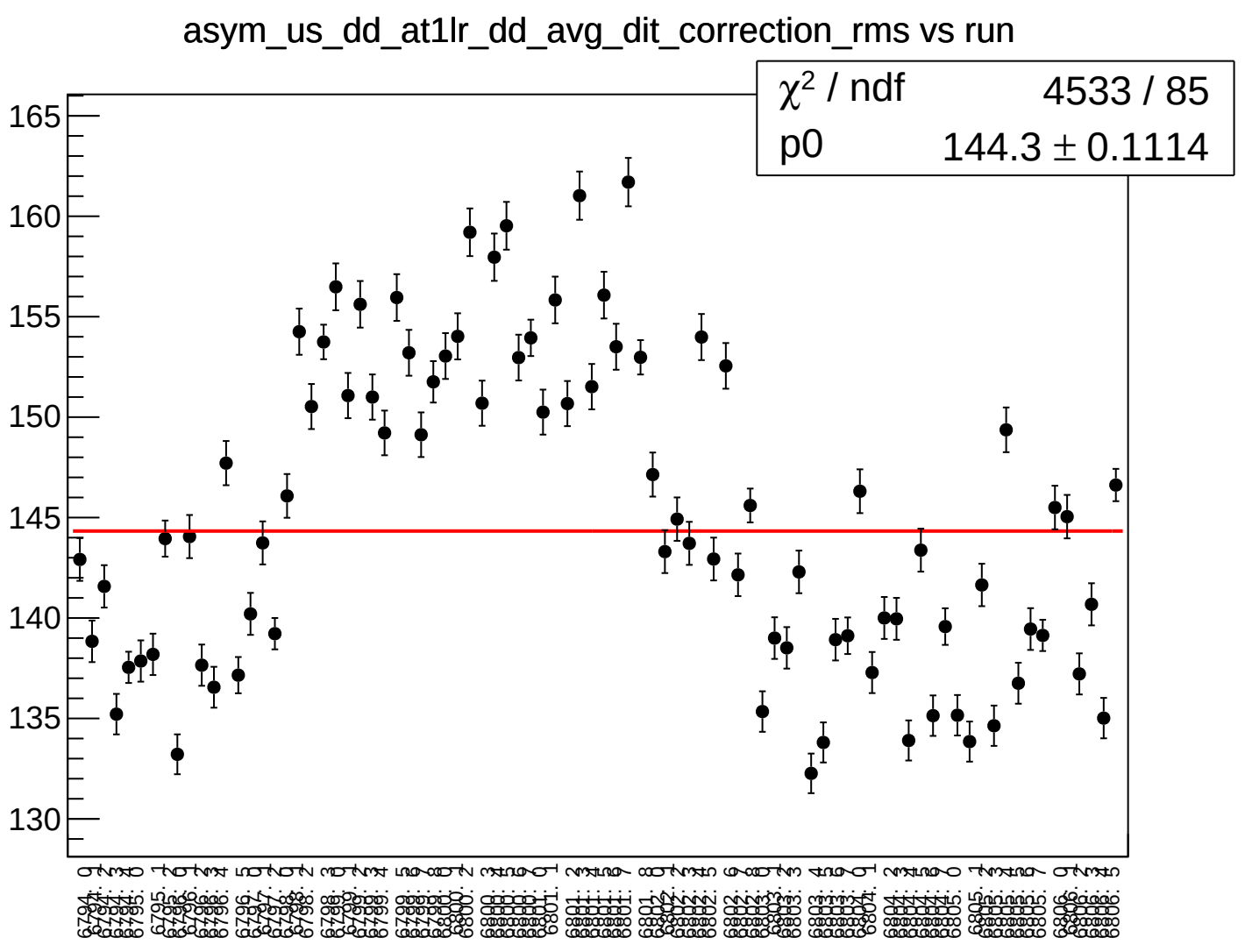

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.346e+04 / 85
p0 144.7 ± 0.1134
220
200
180
160
140
120
100
80

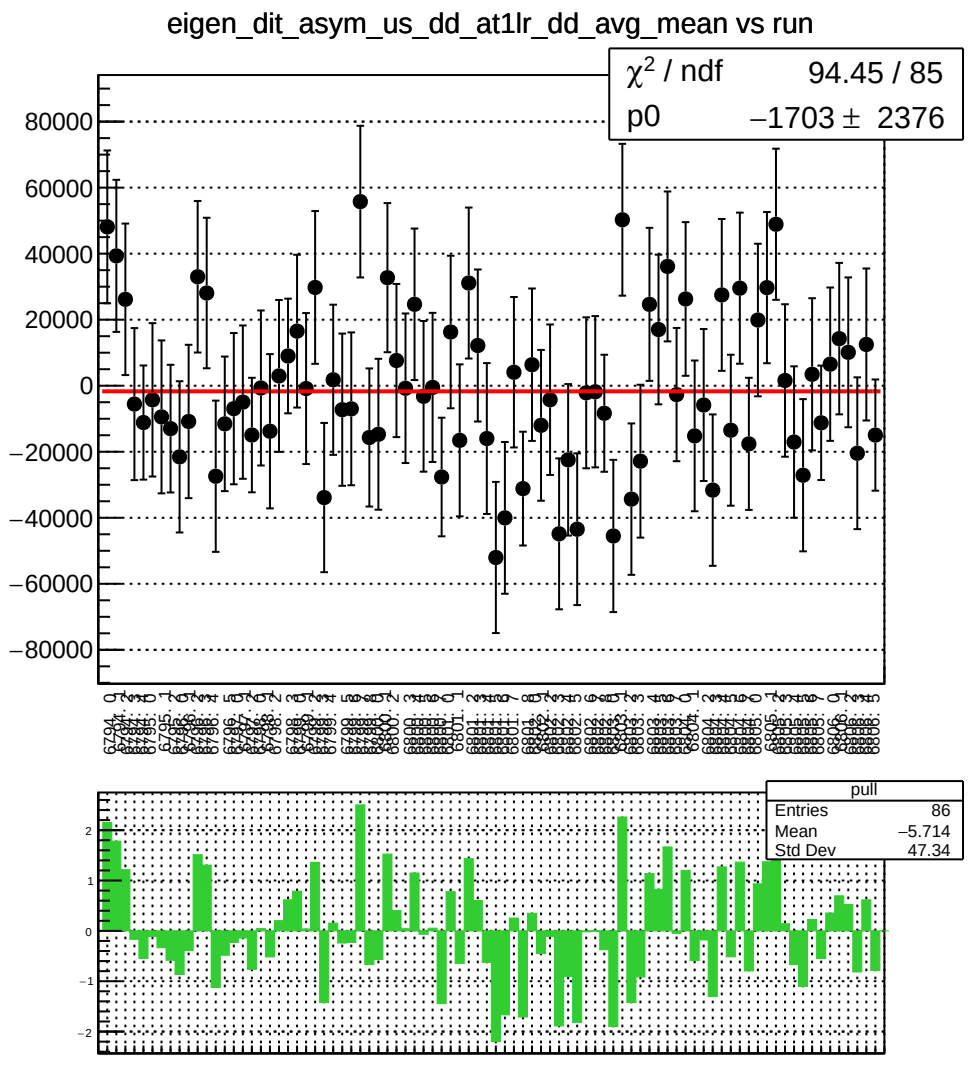

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.45 / 85
p0 −1703 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −5.714
Std Dev 47.34
2
1
0
−1
−2

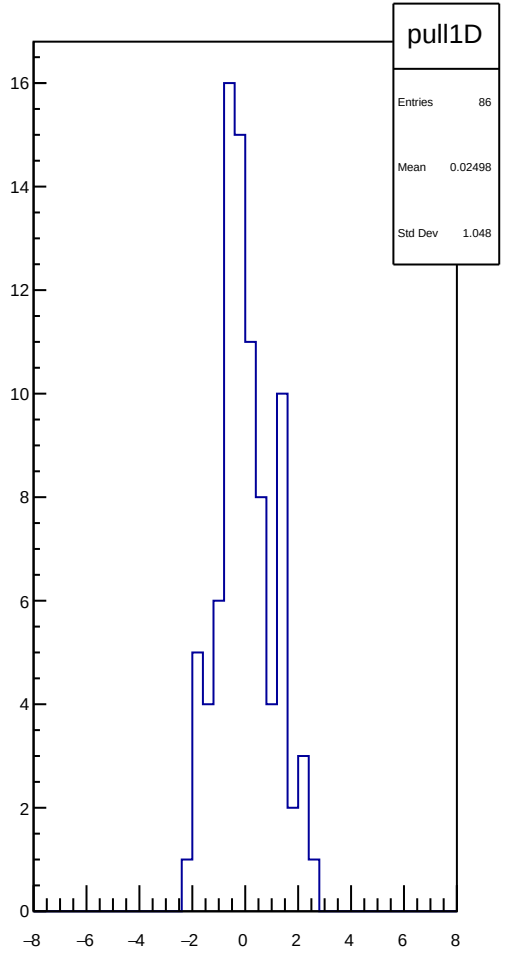

pull1D
Entries 86
Mean 0.02498
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

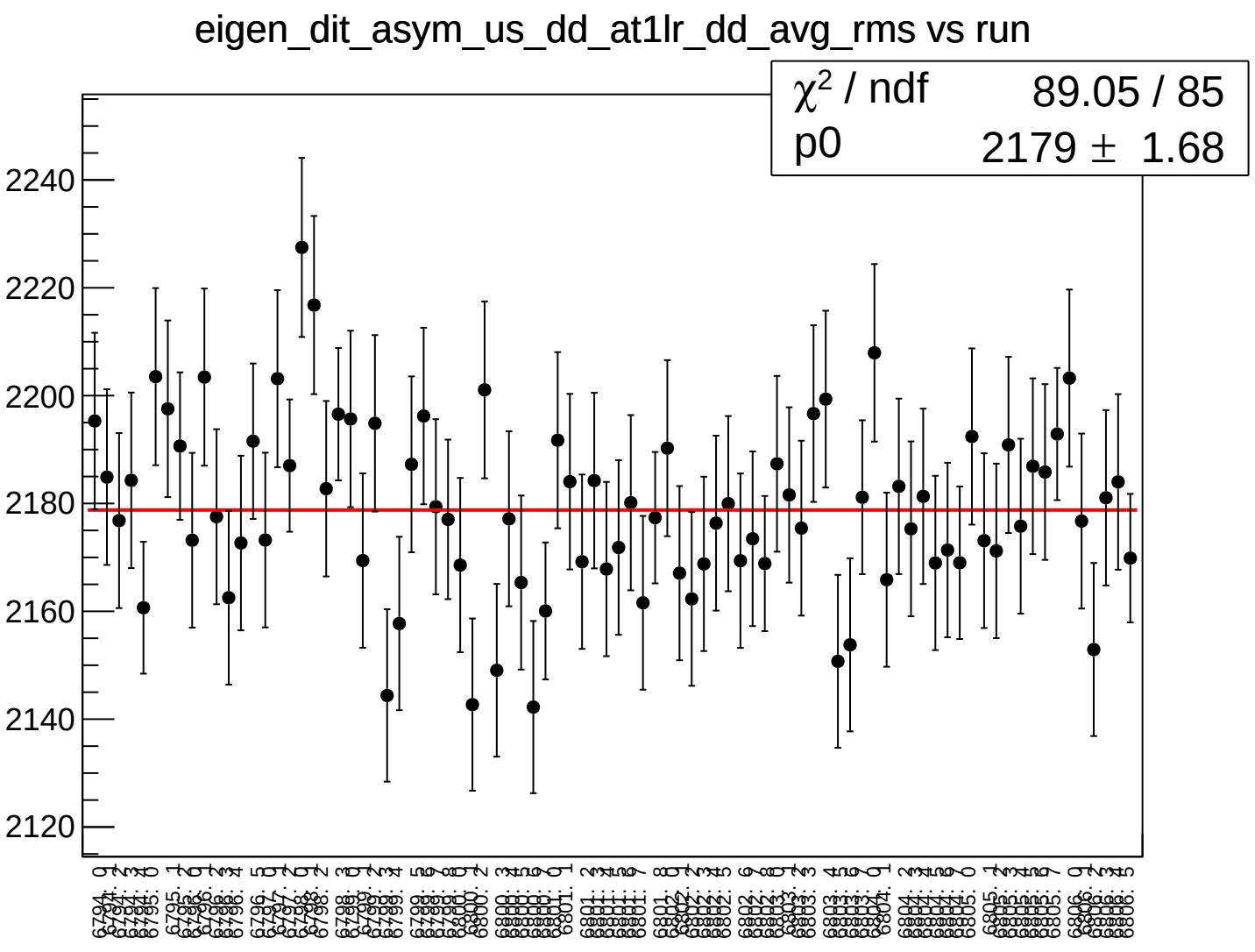

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 89.05 / 85
p0 2179 ± 1.68
2240
2220
2200
2180
2160
2140
2120

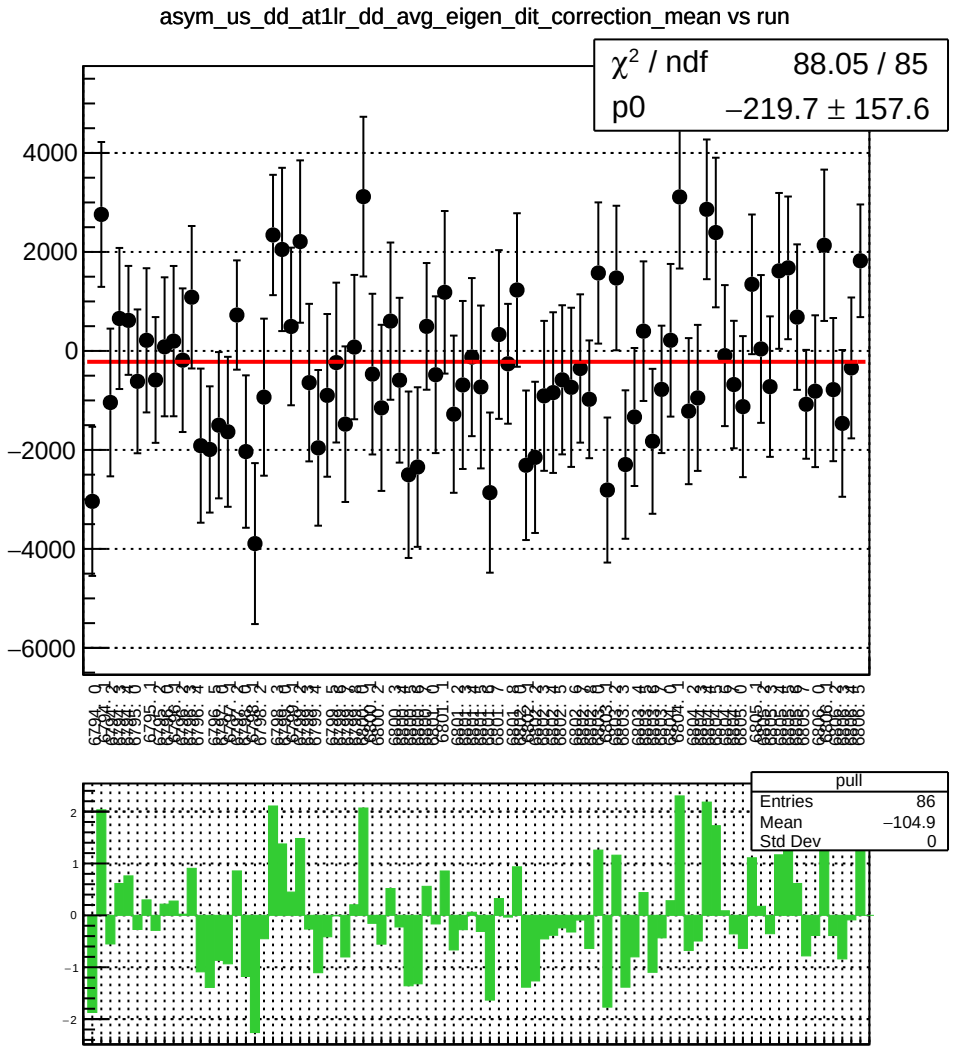

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 88.05 / 85
p0 −219.7 ± 157.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −104.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01875
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

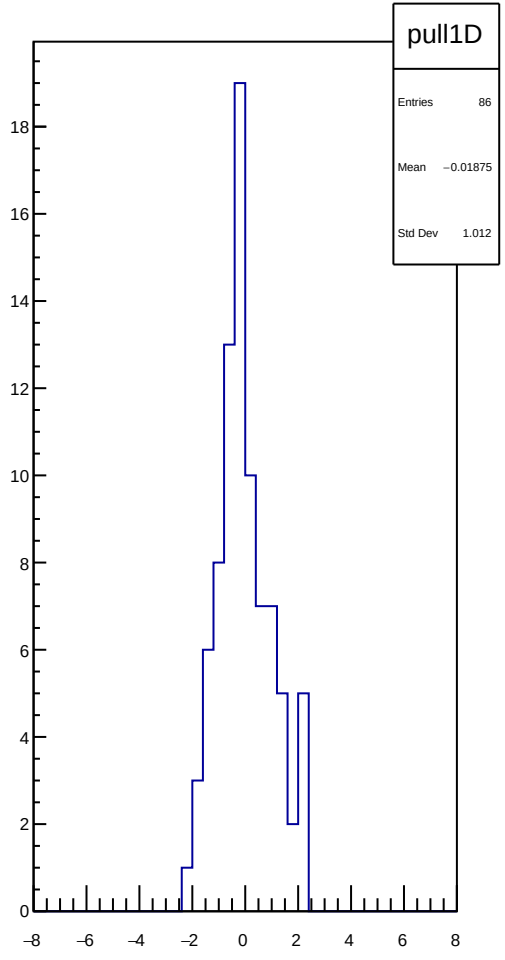

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 4533 / 85
p0 144.3 ± 0.1114
165
160
155
150
145
140
135
130

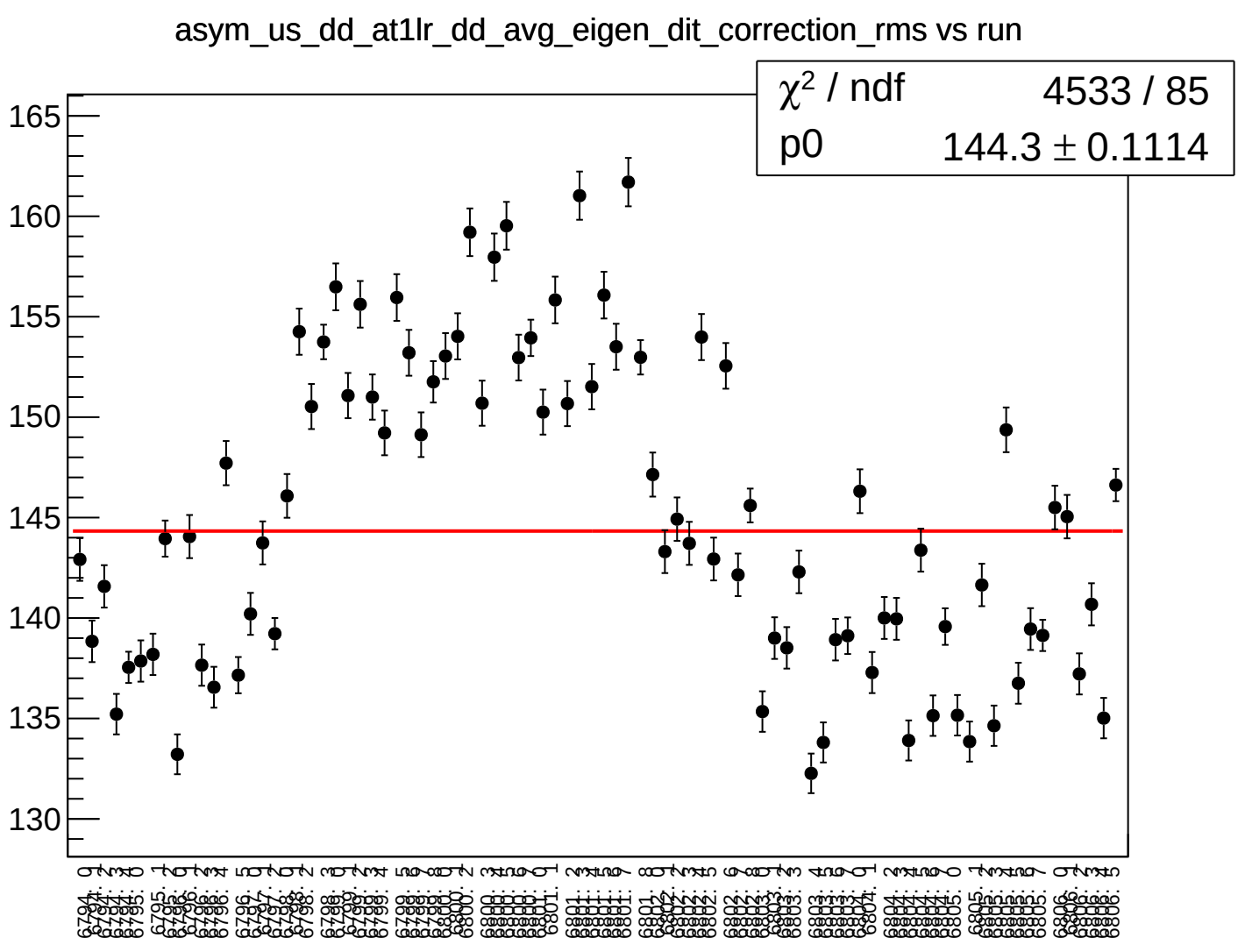

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.45 / 85
p0 −1703 ± 2376
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −5.714
Std Dev 47.34
2
1
0
−1
−2

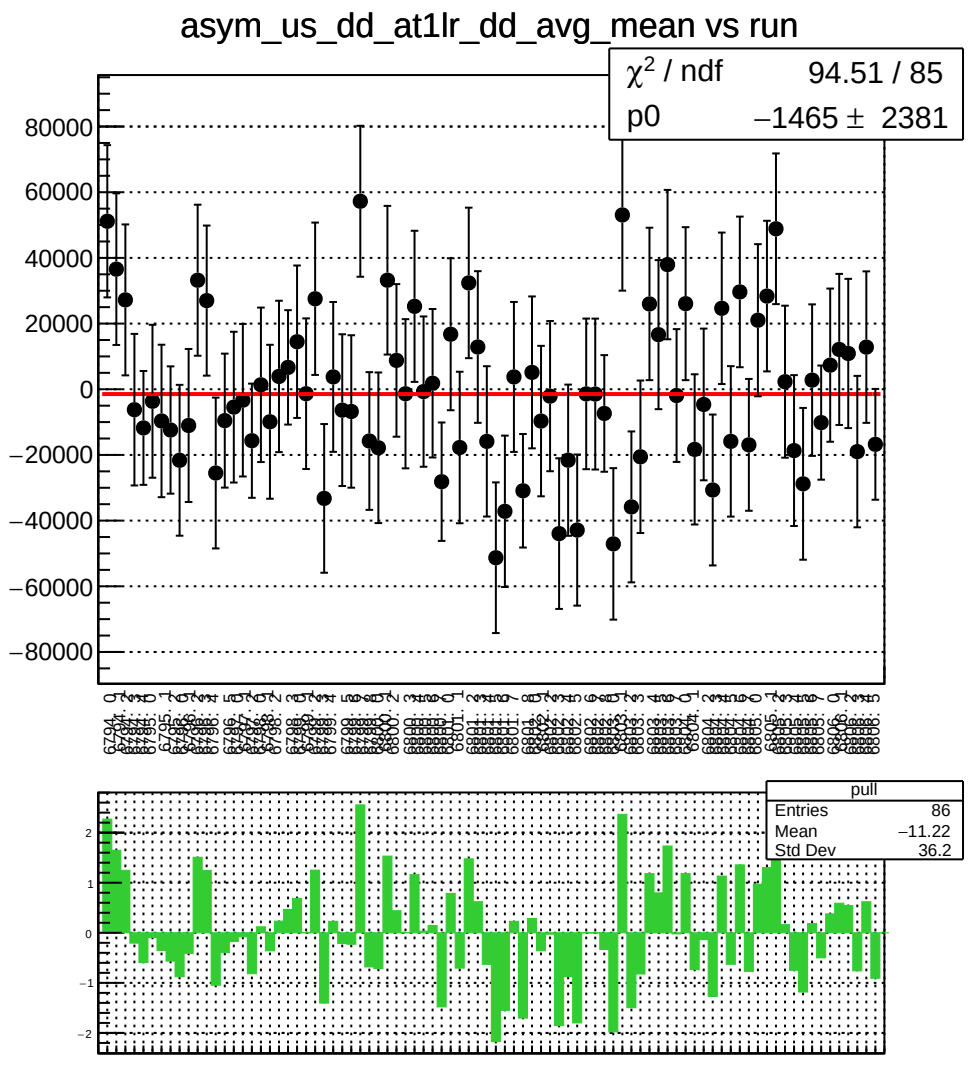

pull1D
Entries 86
Mean 0.02498
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

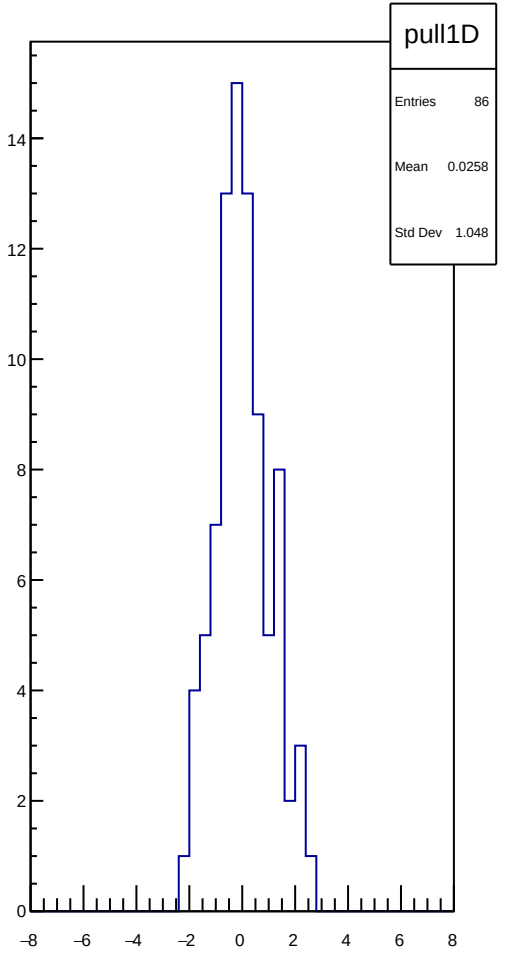

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 89.05 / 85
p0 2179 ± 1.68
2240
2220
2200
2180
2160
2140
2120

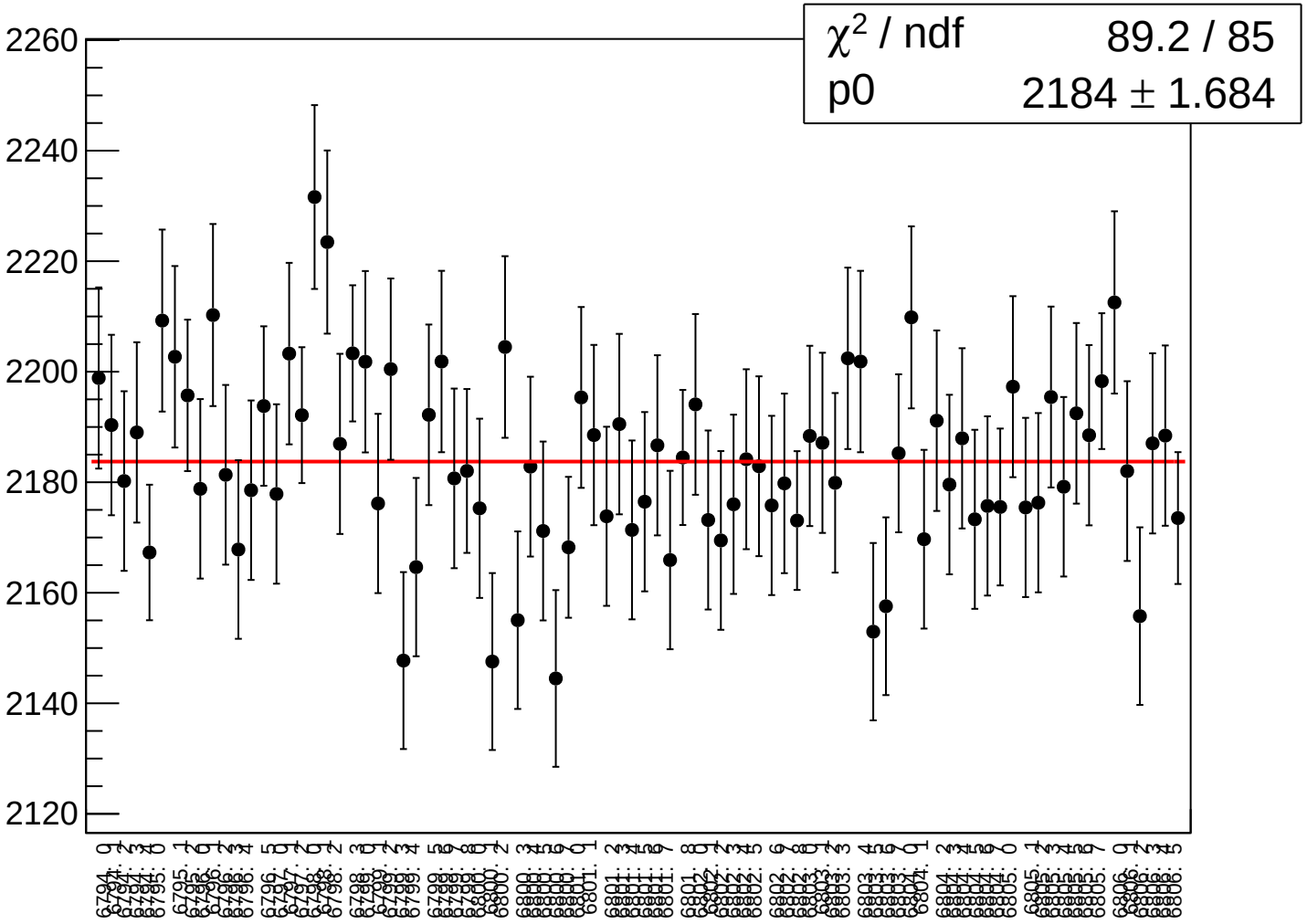

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.05 / 85
p0 −219.7 ± 157.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −104.9
Std Dev 0
2
1
0
−1
−2

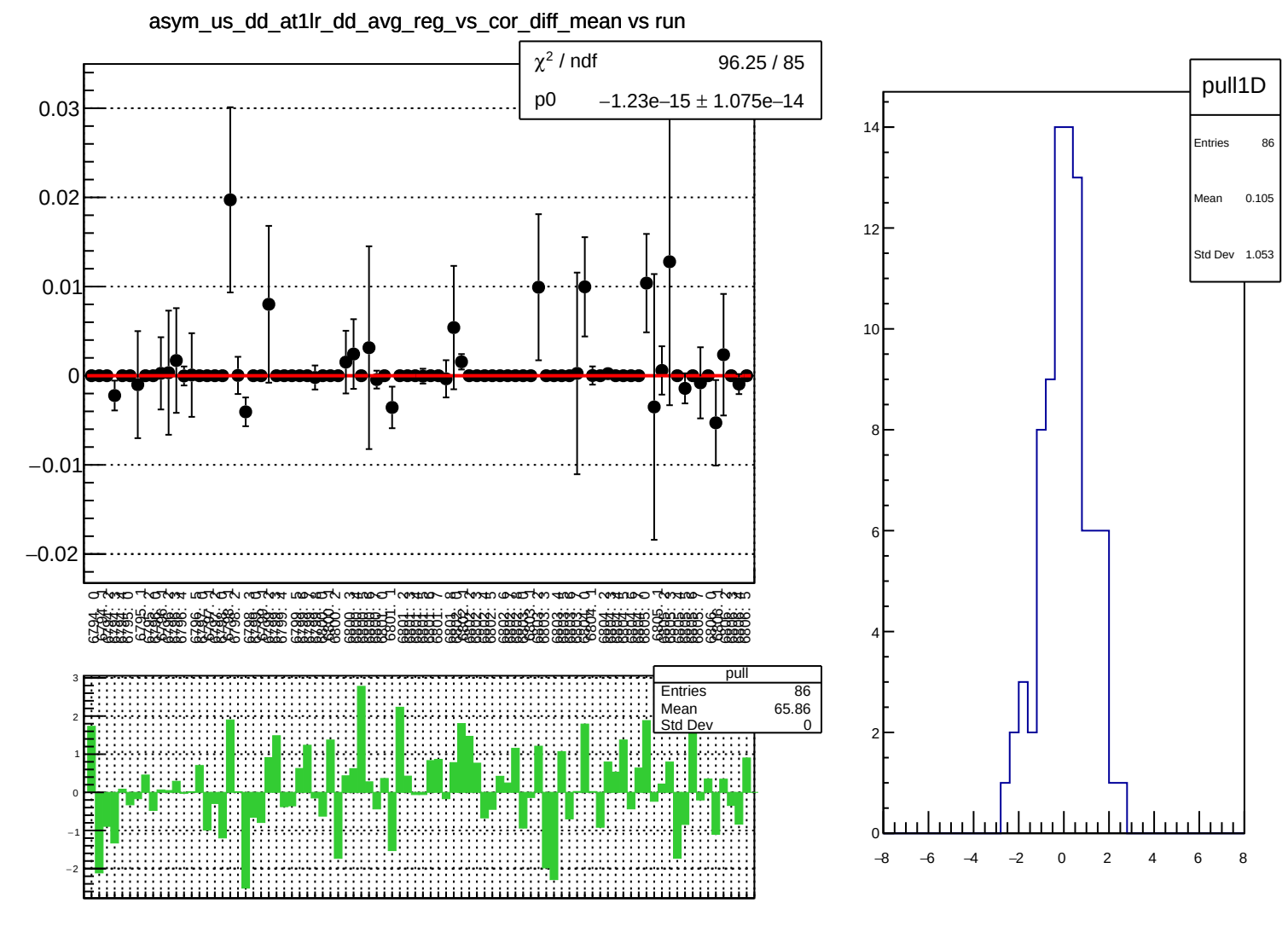

pull1D
Entries 86
Mean −0.01875
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

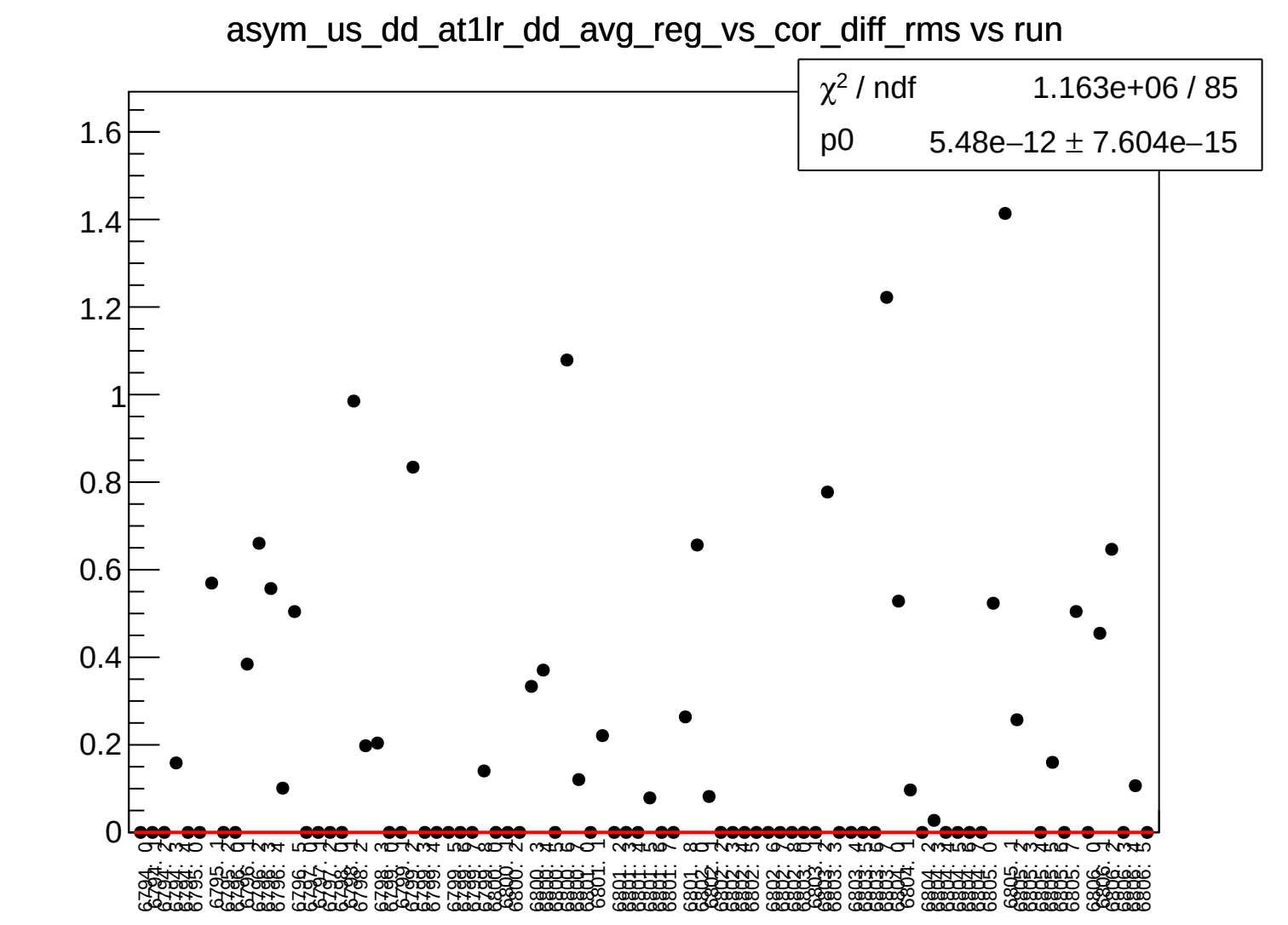

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 4533 / 85
p0 144.3 ± 0.1114
165
160
155
150
145
140
135
130

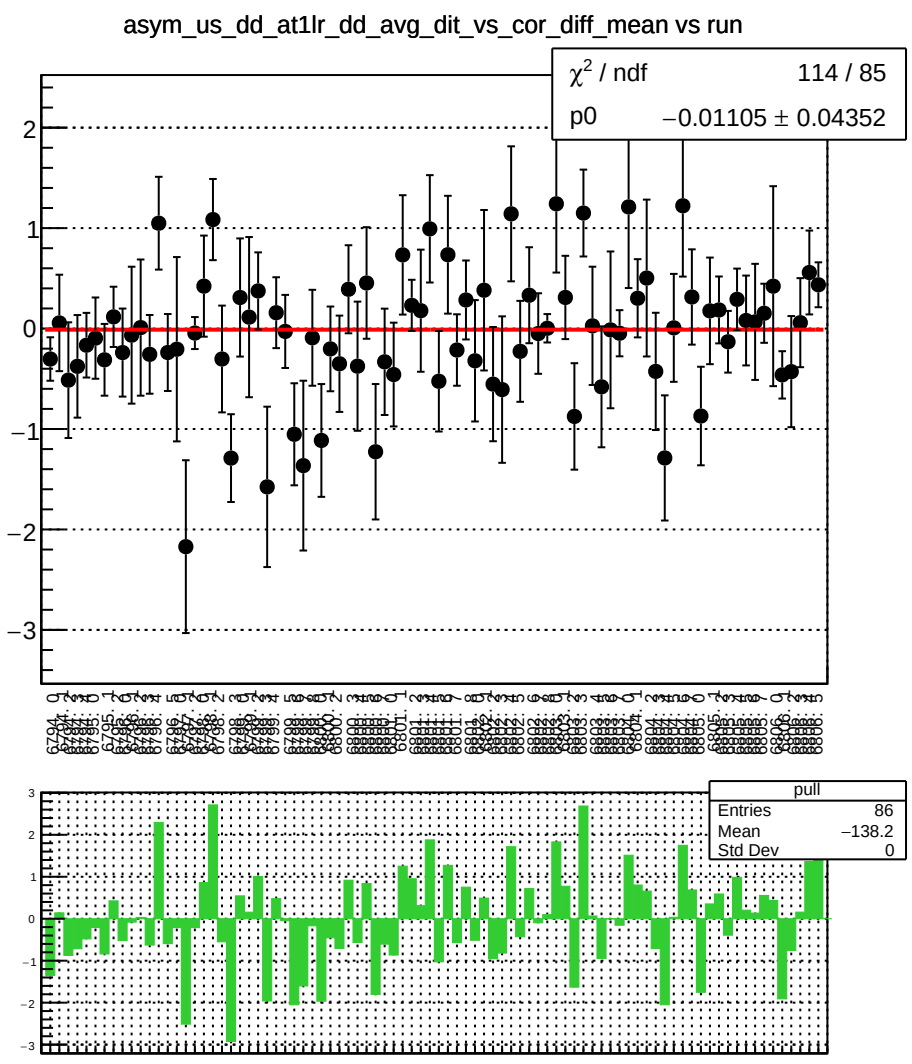

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.51 / 85
p0 −1465 ± 2381
pull
Entries 86
Mean −11.22
Std Dev 36.2

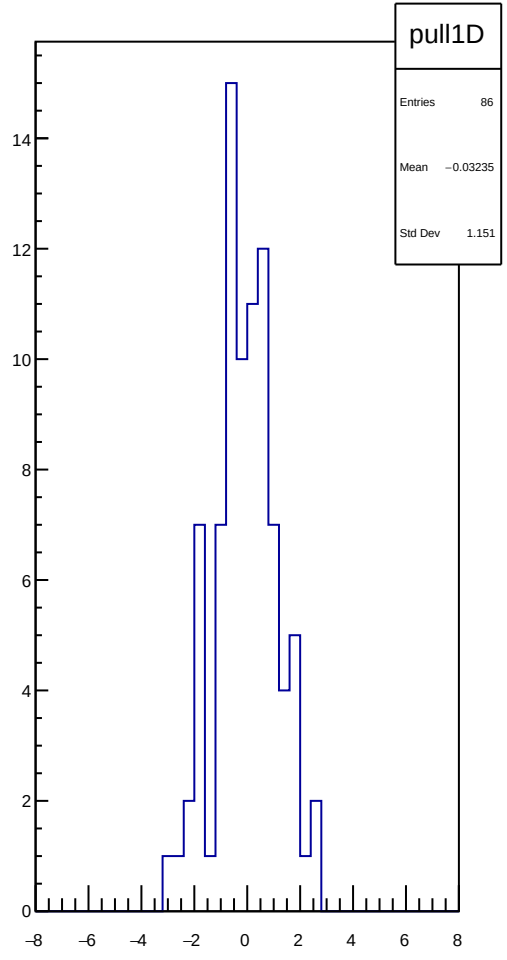

pull1D
Entries 86
Mean 0.0258
Std Dev 1.048

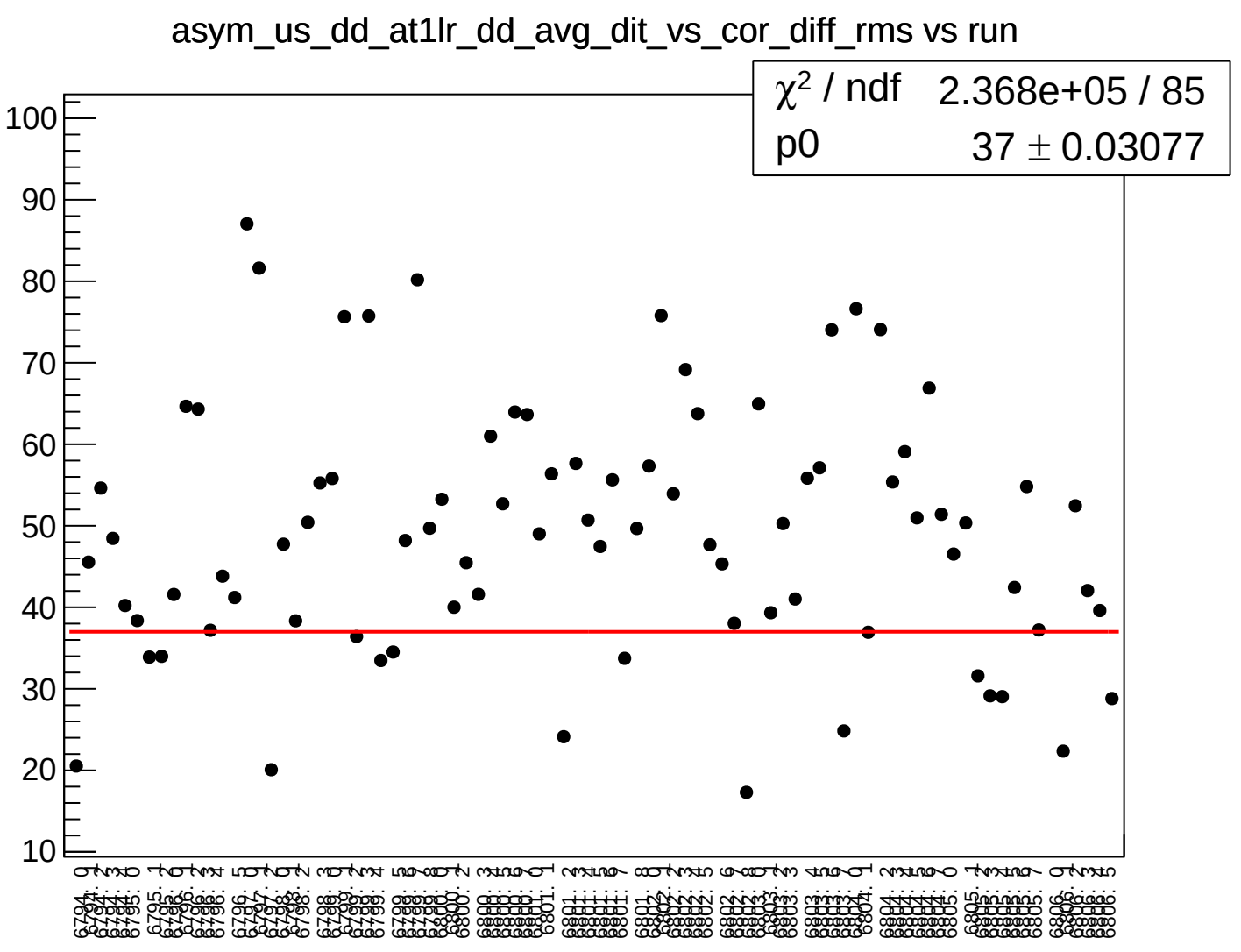

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 89.2 / 85
p0 2184 ± 1.684
2260
2240
2220
2200
2180
2160
2140
2120

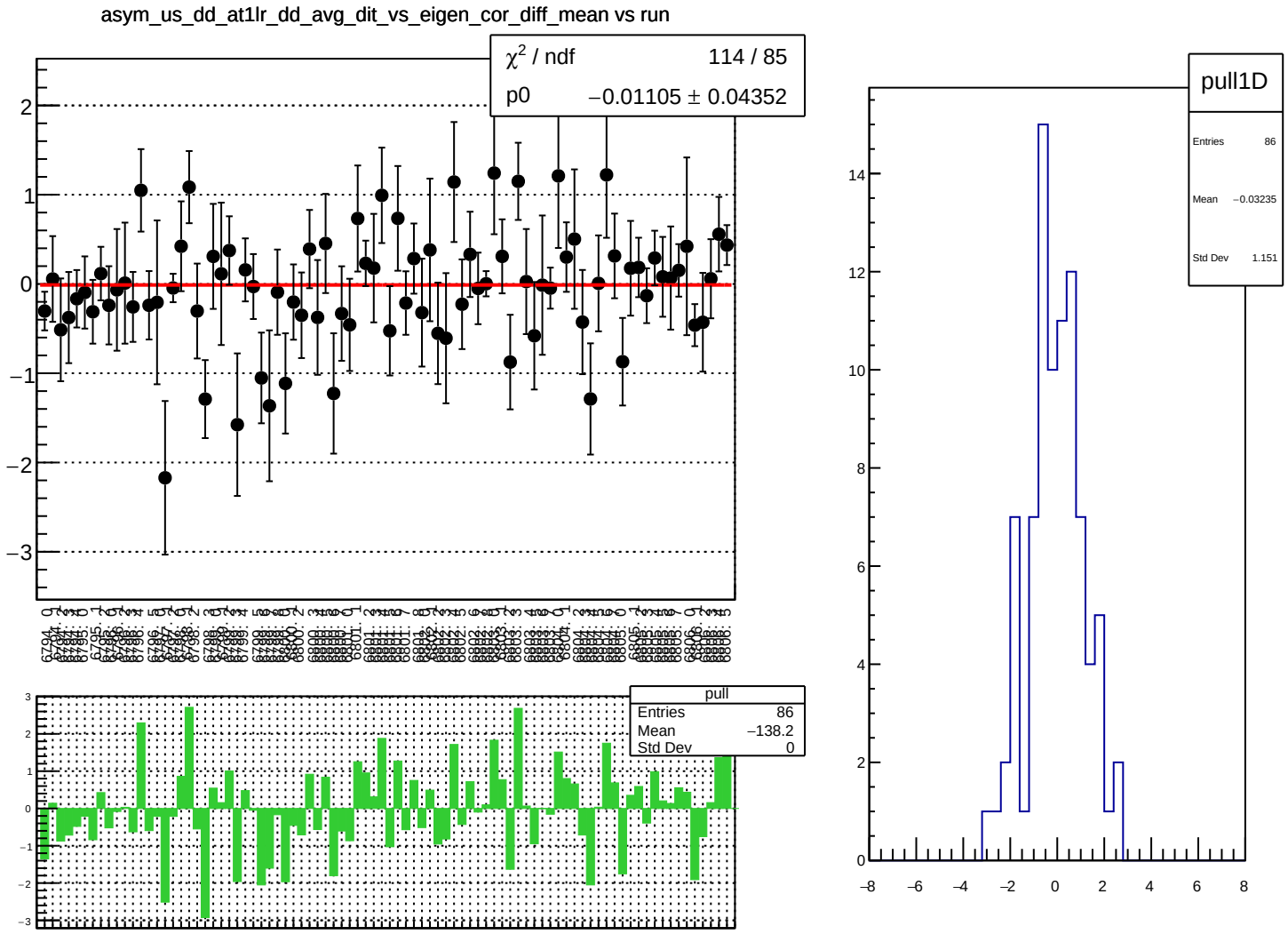

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.25 / 85
p0 −1.23e−15 ± 1.075e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 65.86
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.105
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

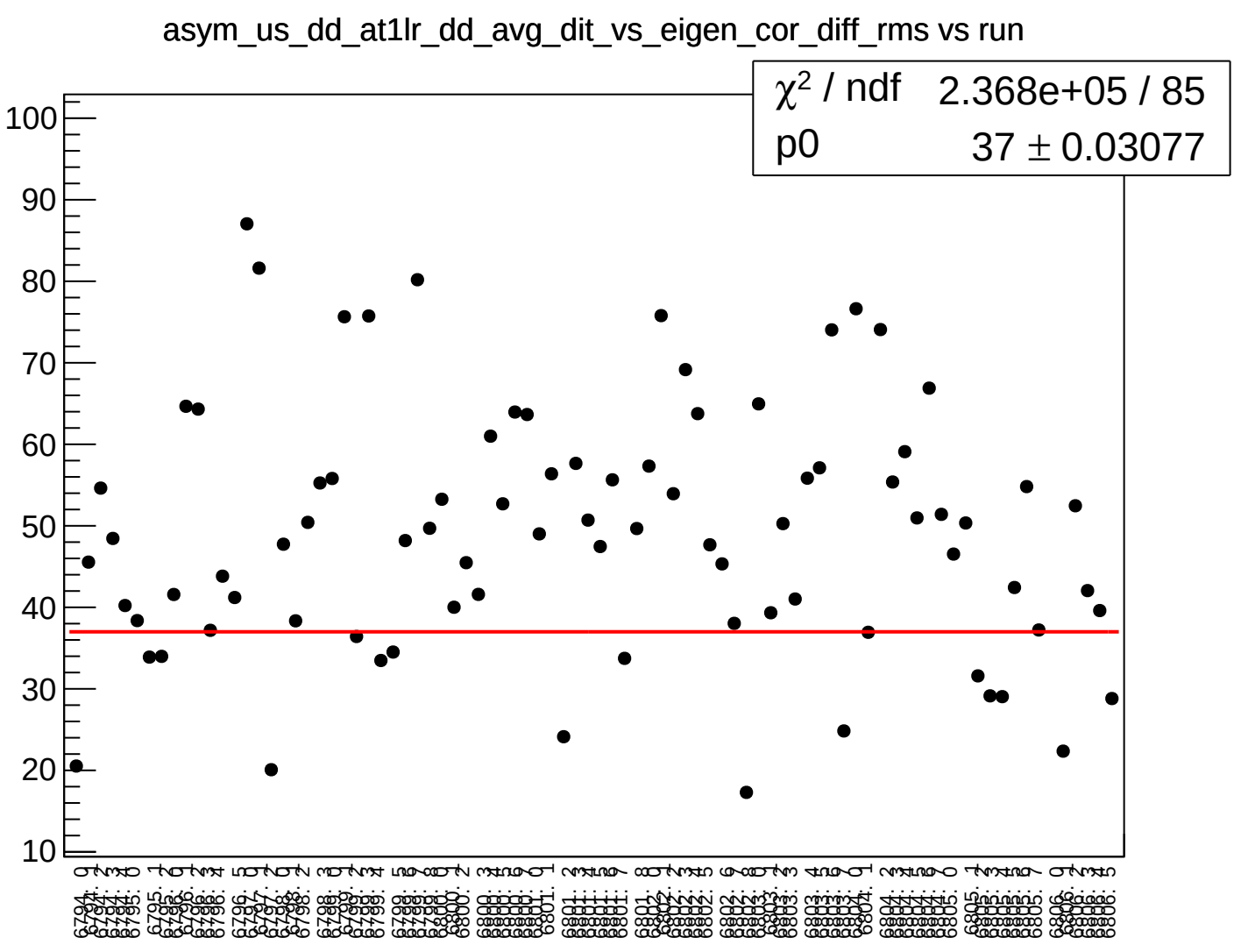

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 85
p0 5.48e−12 ± 7.604e−15
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

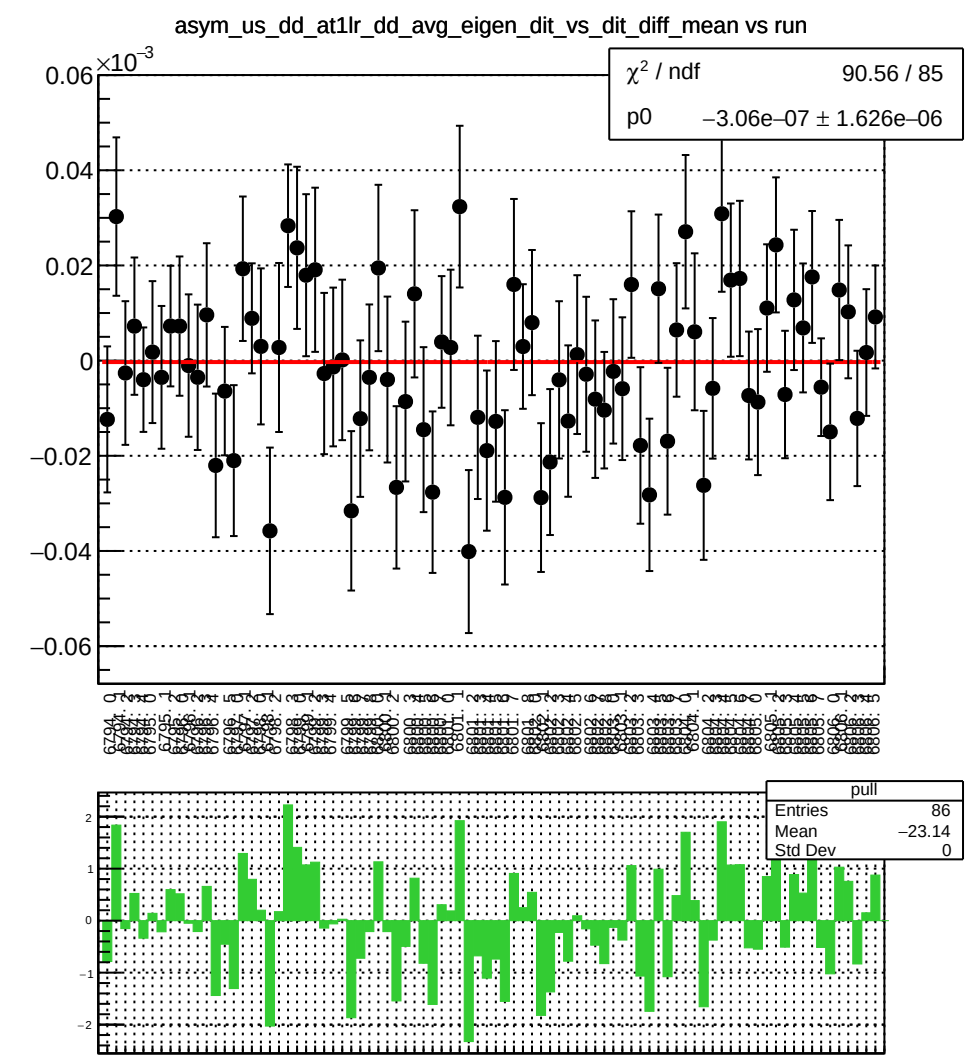

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 −0.01105 ± 0.04352
pull
Entries 86
Mean −138.2
Std Dev 0

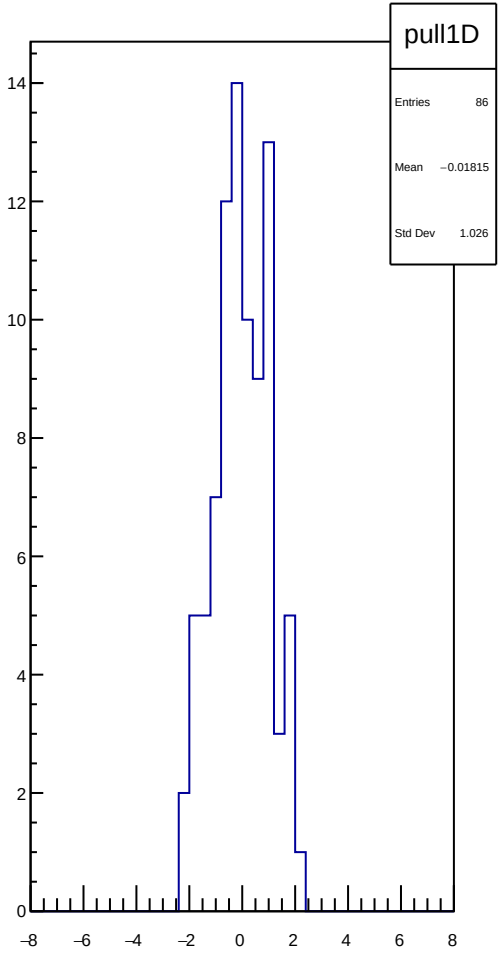

pull1D
Entries 86
Mean −0.03235
Std Dev 1.151

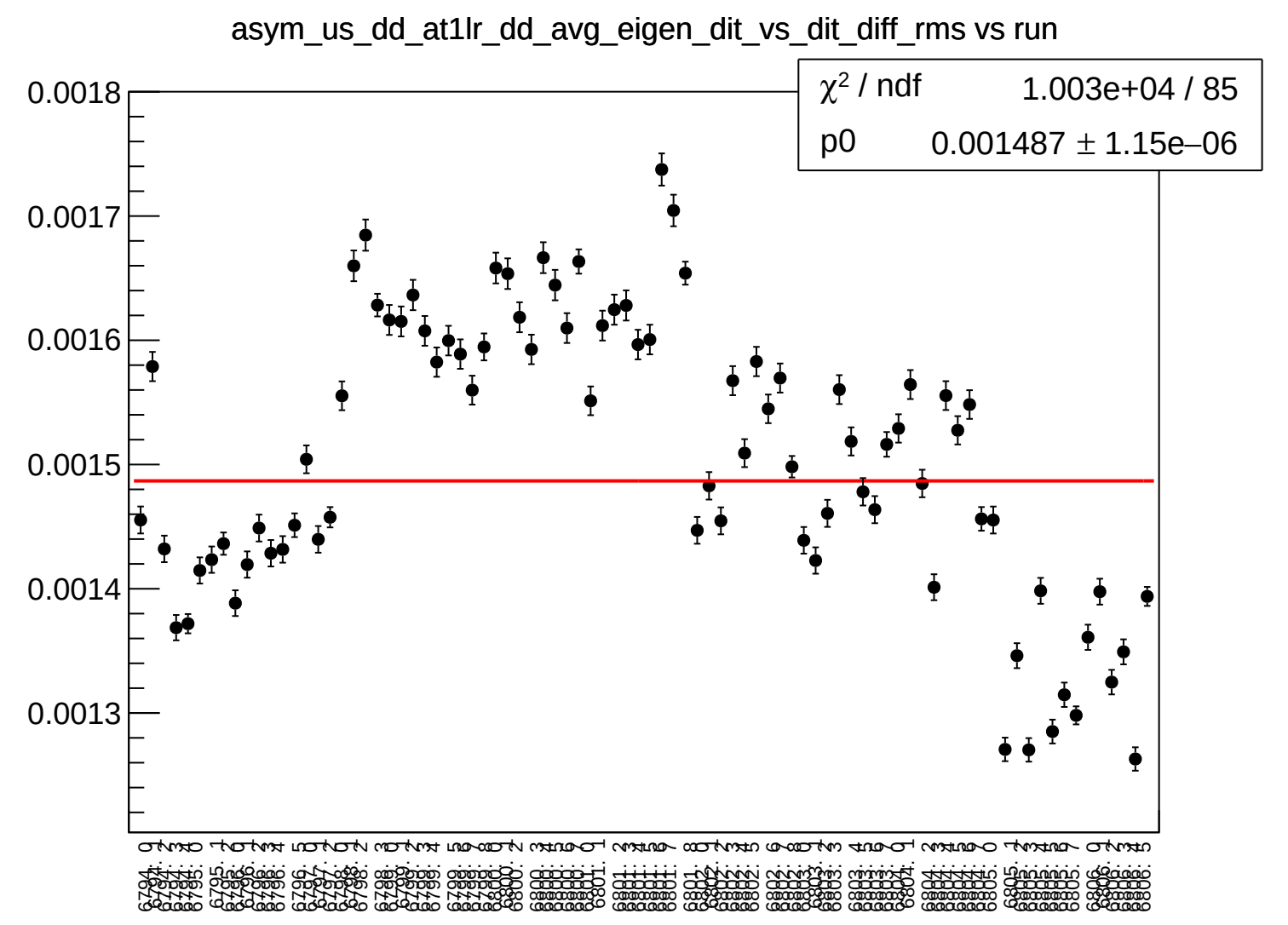

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 85
p0 37 ± 0.03077
100
90
80
70
60
50
40
30
20
10

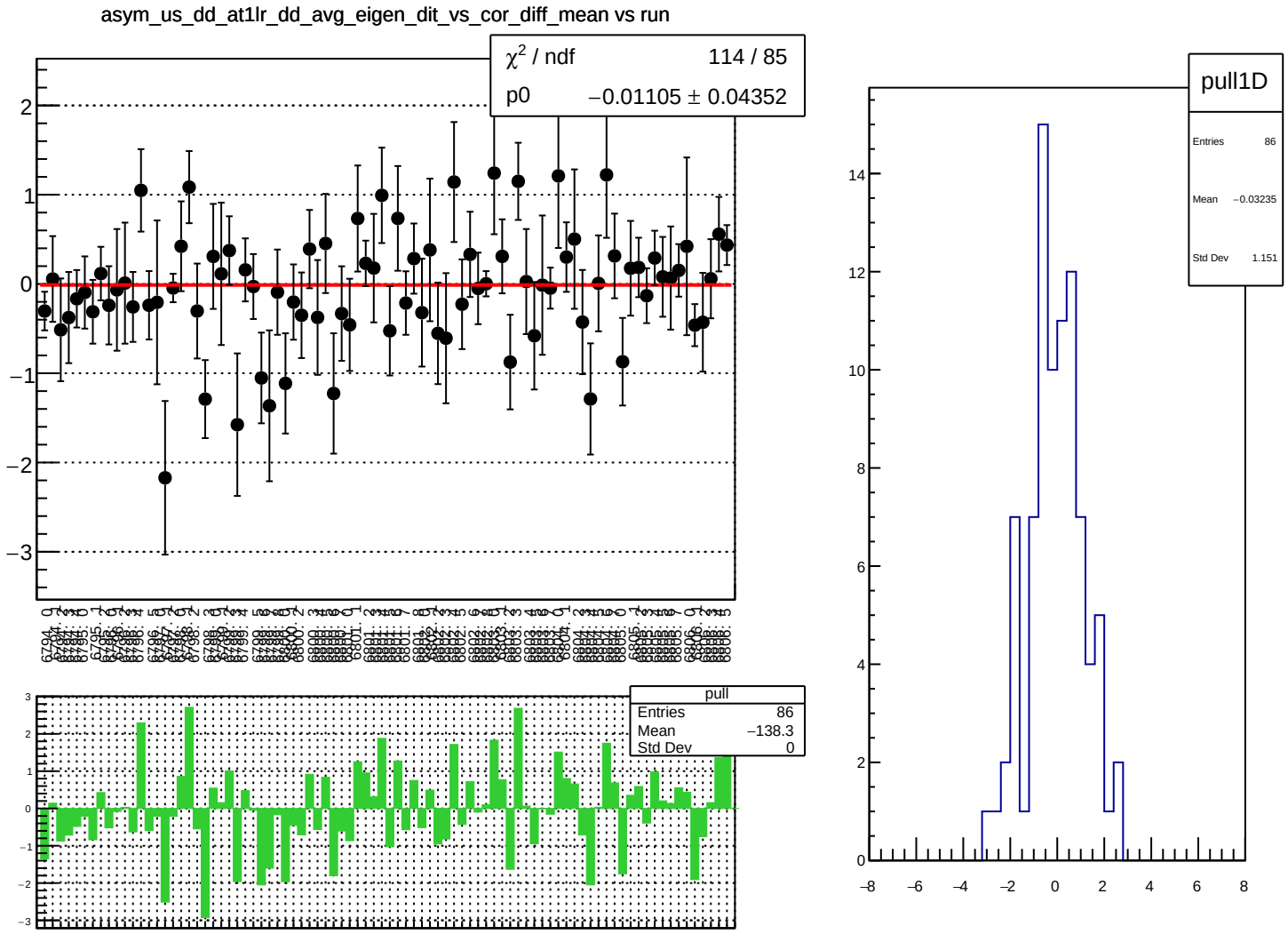

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 −0.01105 ± 0.04352
pull
Entries 86
Mean −138.2
Std Dev 0
pull1D
Entries 86
Mean −0.03235
Std Dev 1.151

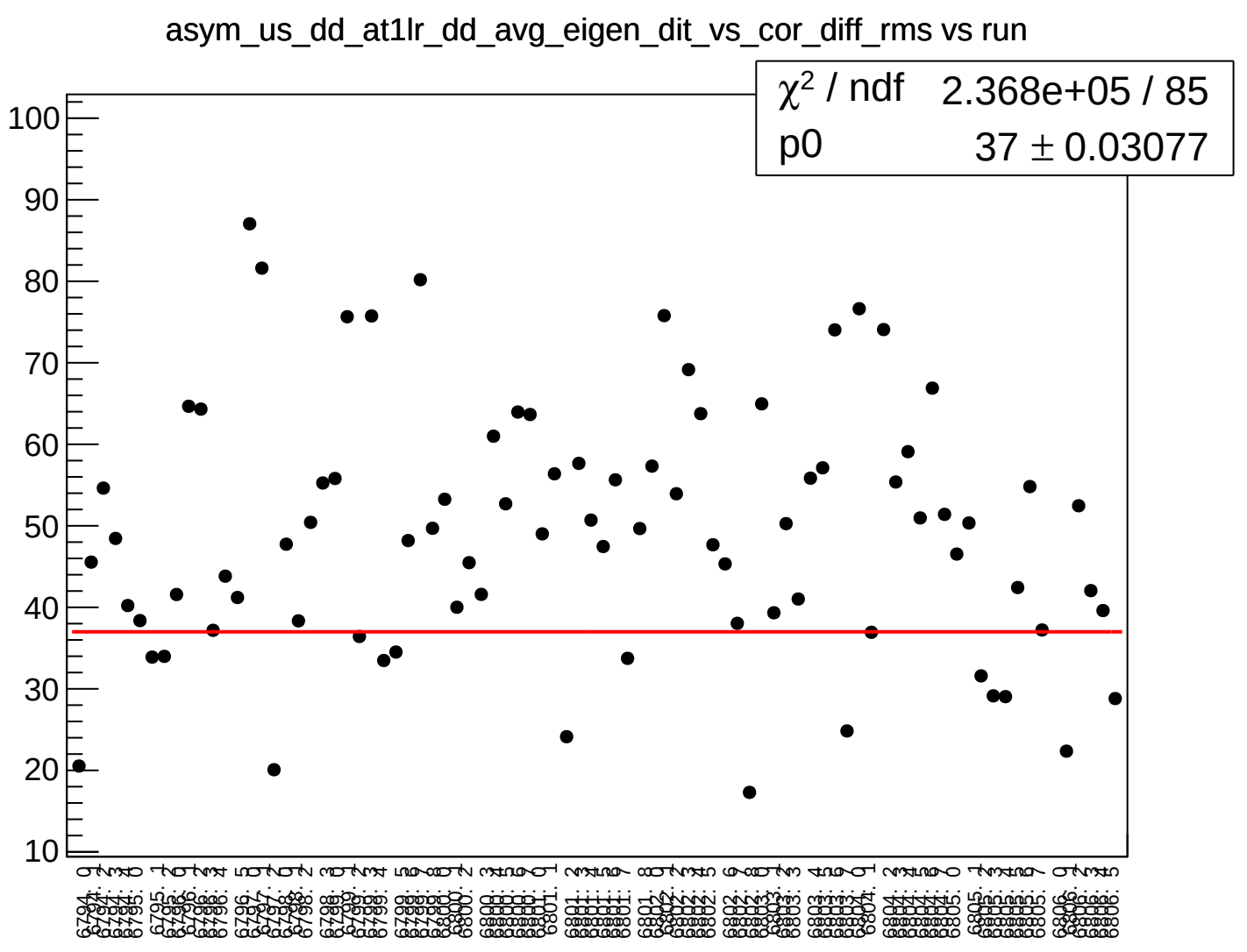

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 85
p0 37 ± 0.03077
100
90
80
70
60
50
40
30
20
10

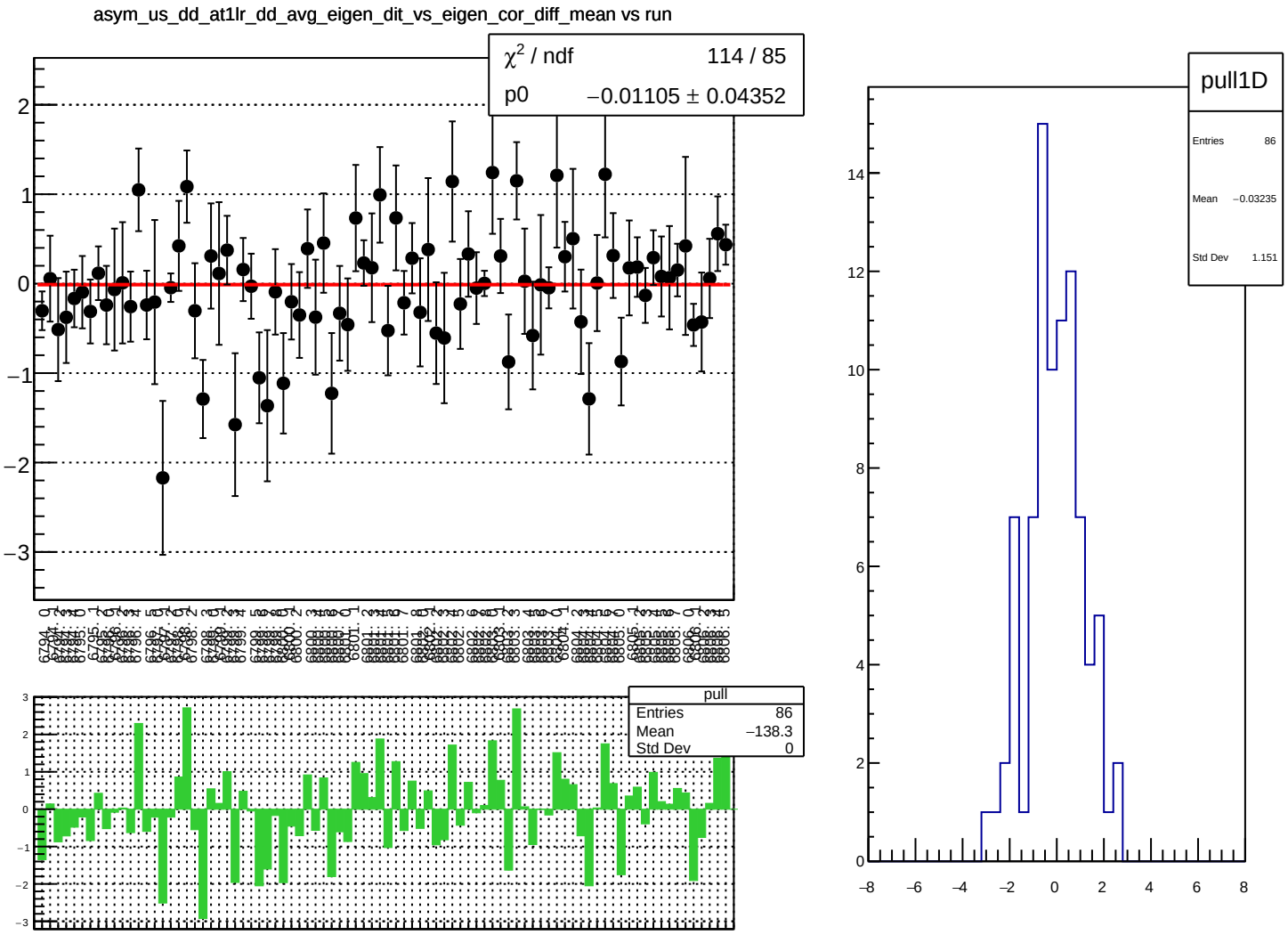

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 90.56 / 85
p0 −3.06e−07 ± 1.626e−06
pull
Entries 86
Mean −23.14
Std Dev 0

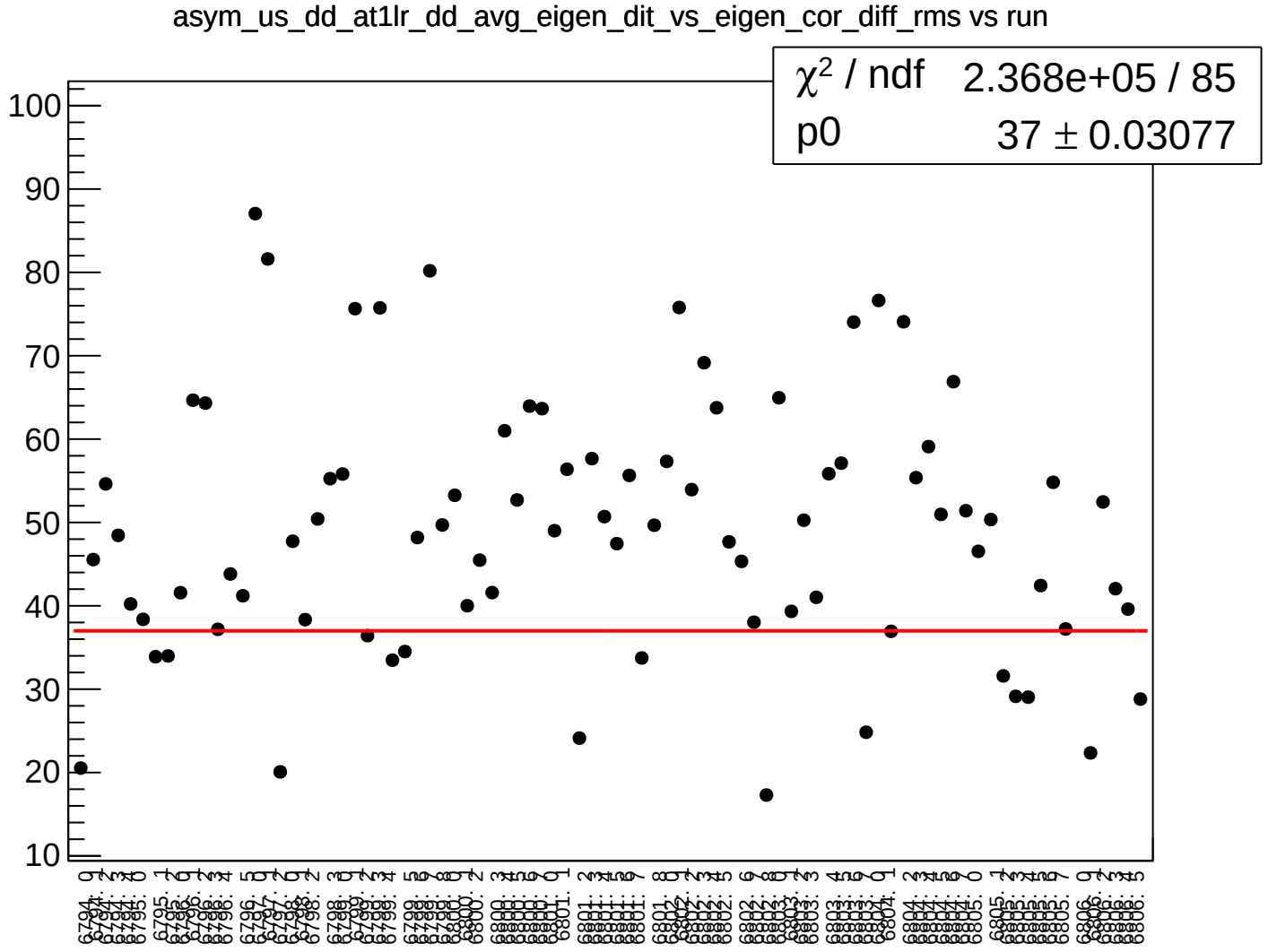

pull1D
Entries 86
Mean −0.01815
Std Dev 1.026

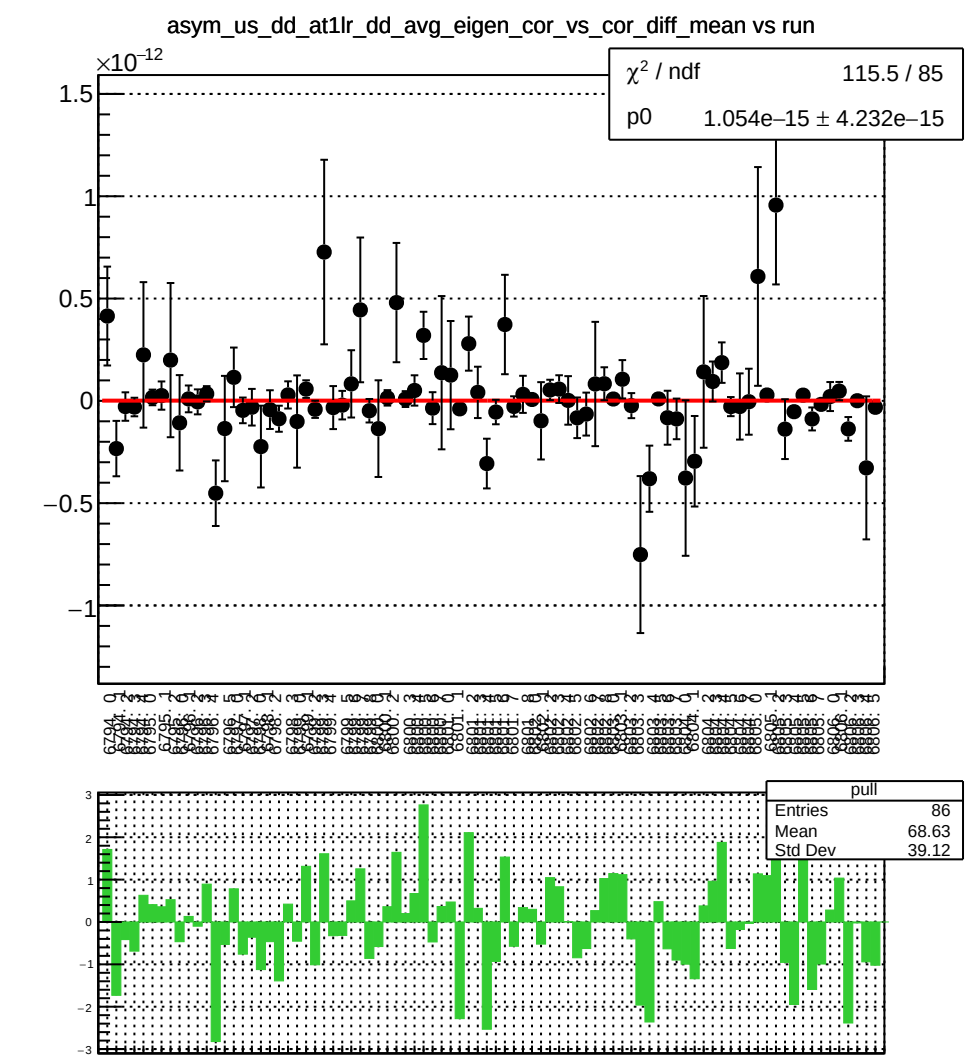

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.003e+04 / 85
p0 0.001487 ± 1.15e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

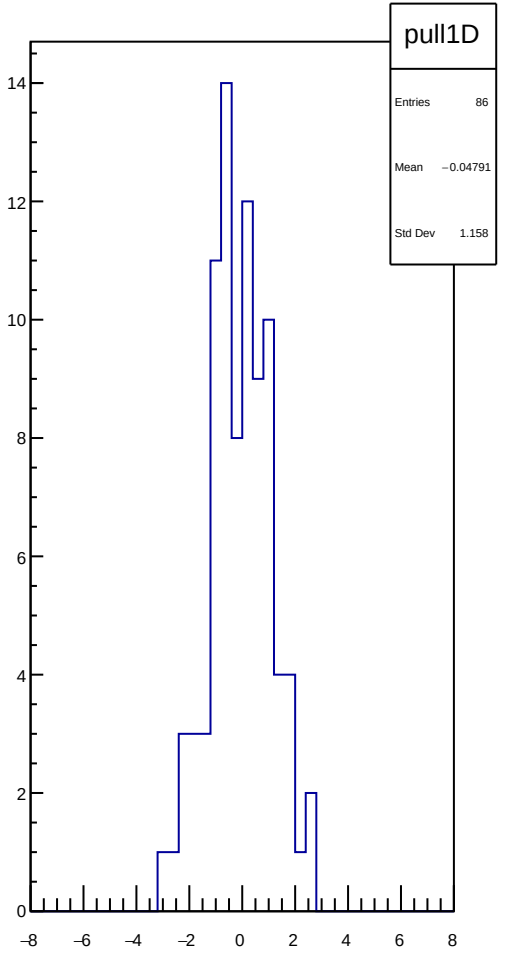

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 −0.01105 ± 0.04352
pull
Entries 86
Mean −138.3
Std Dev 0
pull1D
Entries 86
Mean −0.03235
Std Dev 1.151

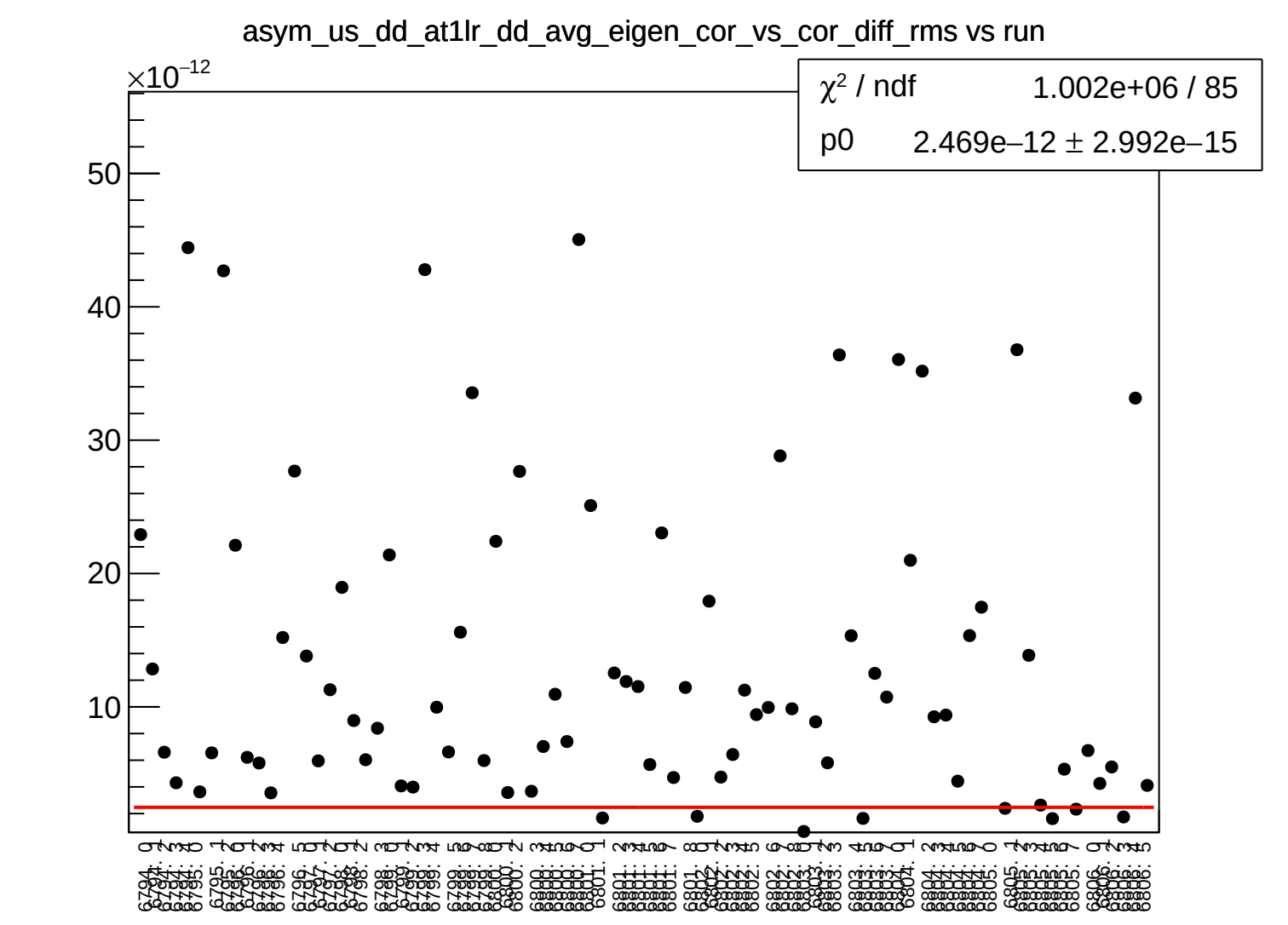

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 85
p0 37 ± 0.03077
100
90
80
70
60
50
40
30
20
10

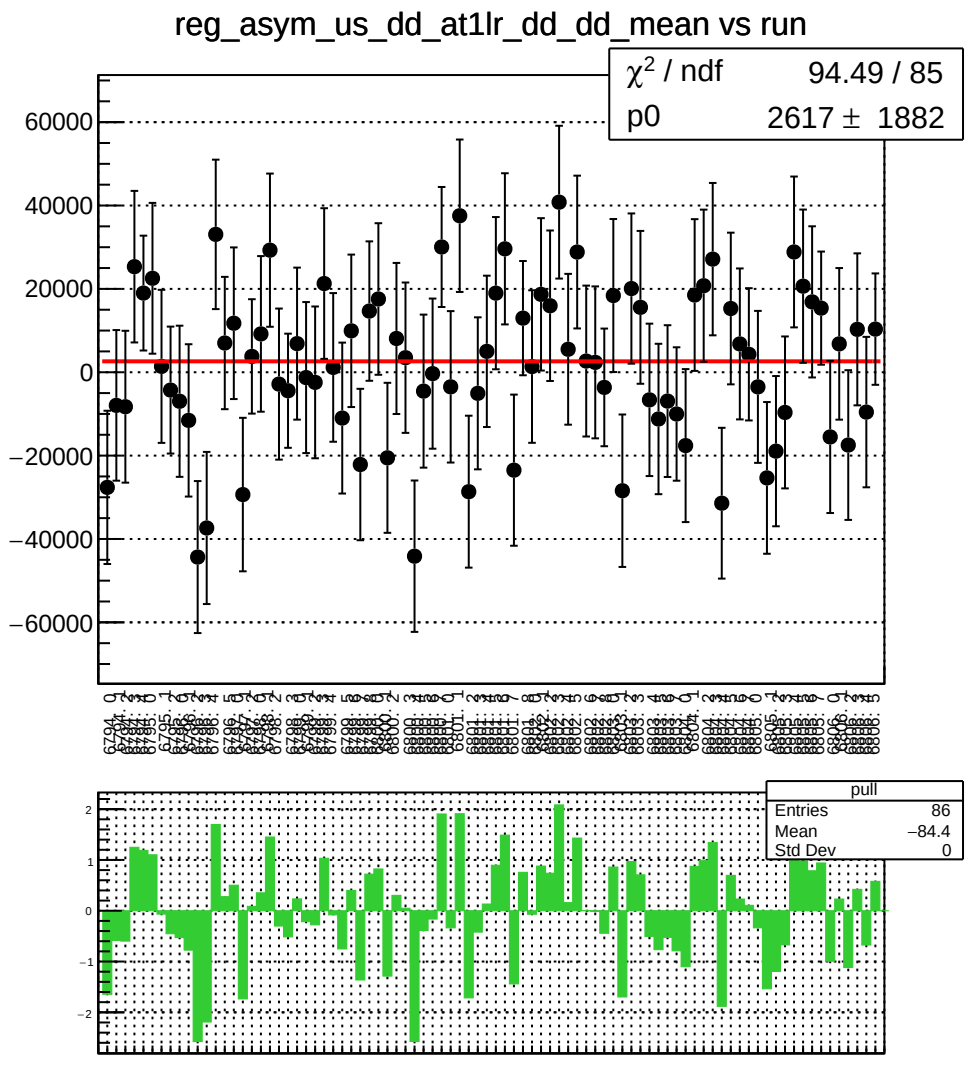

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114 / 85
p0 −0.01105 ± 0.04352
pull
Entries 86
Mean −138.3
Std Dev 0
pull1D
Entries 86
Mean −0.03235
Std Dev 1.151

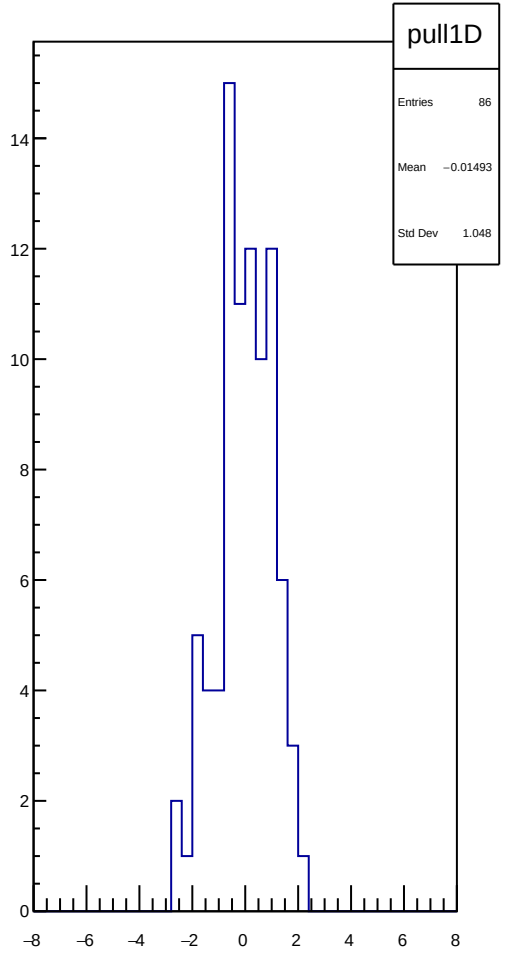

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.368e+05 / 85
p0 37 ± 0.03077
100
90
80
70
60
50
40
30
20
10

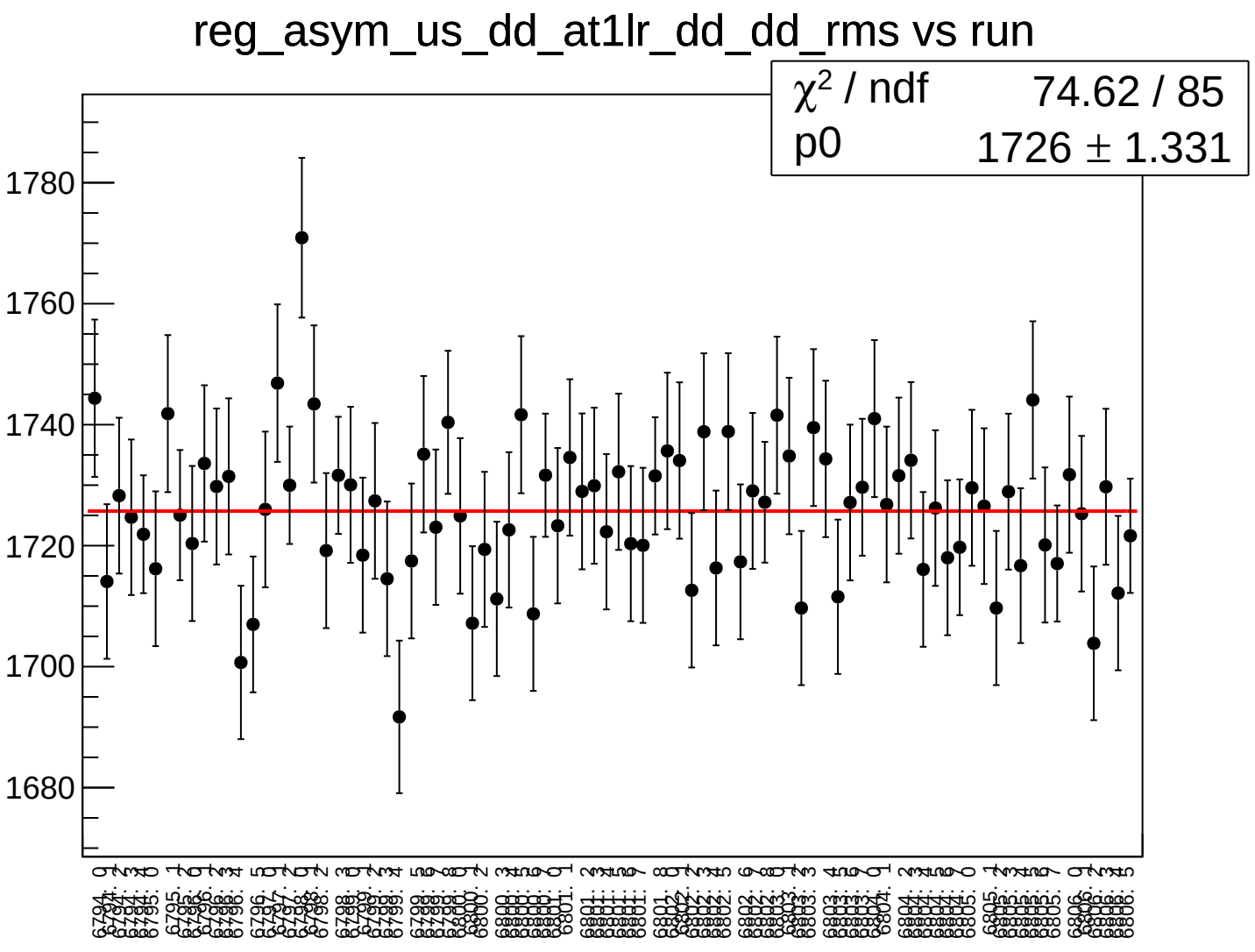

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 115.5 / 85
p0 1.054e−15 ± 4.232e−15
pull
Entries 86
Mean 68.63
Std Dev 39.12

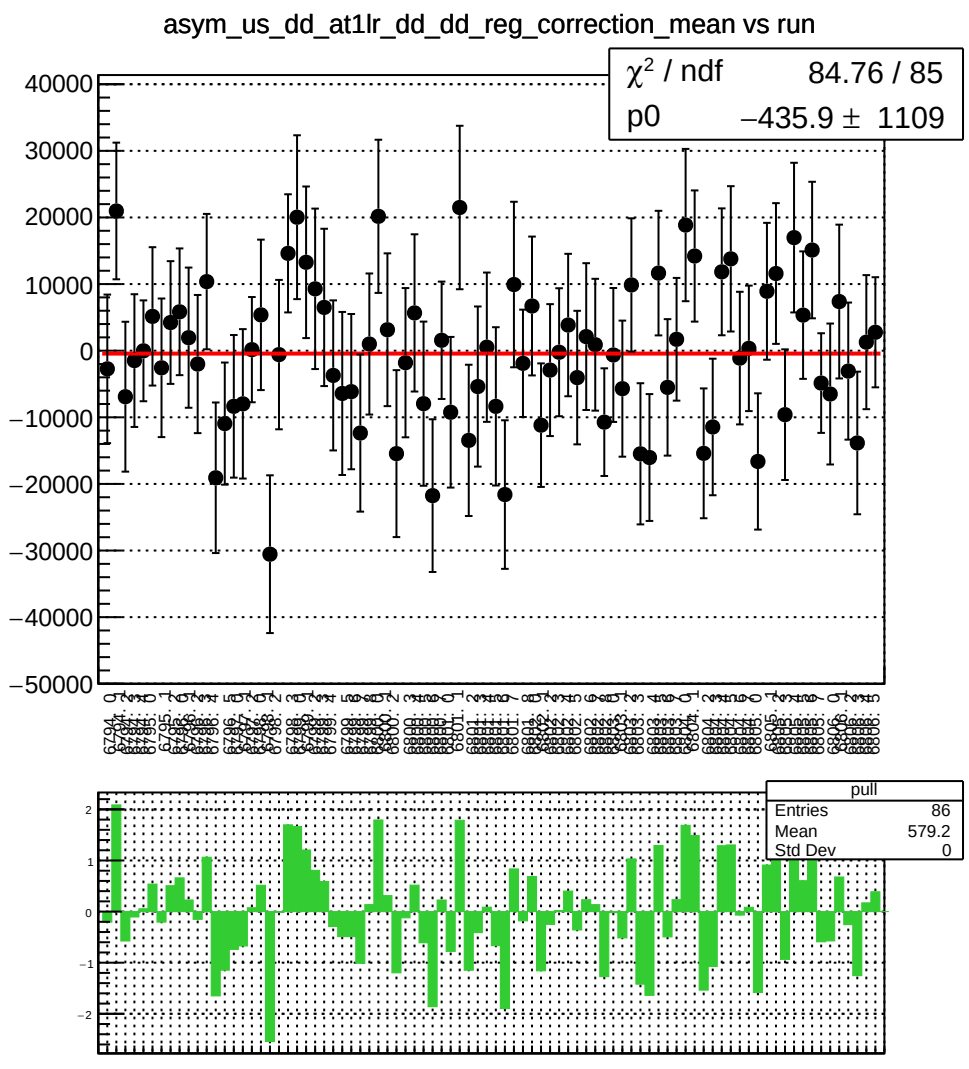

pull1D
Entries 86
Mean −0.04791
Std Dev 1.158

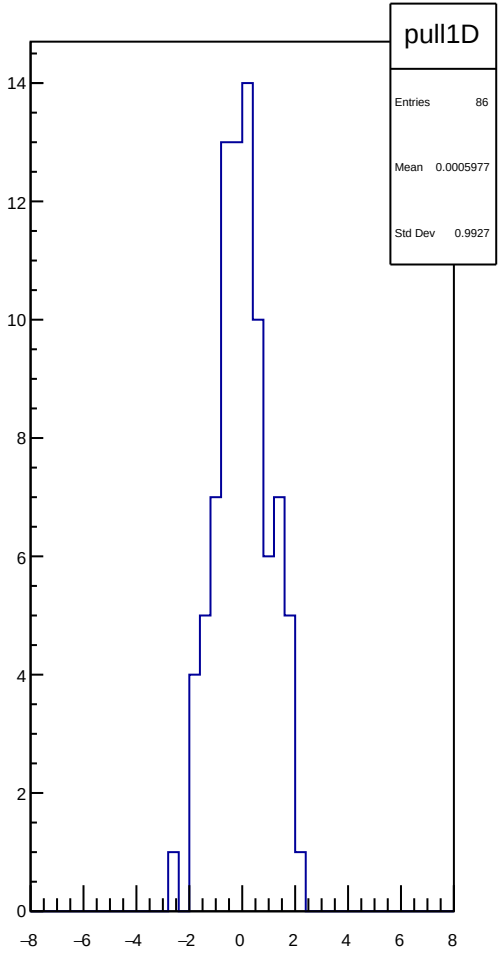

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 1.002e+06 / 85
p0 2.469e−12 ± 2.992e−15
50
40
30
20
10

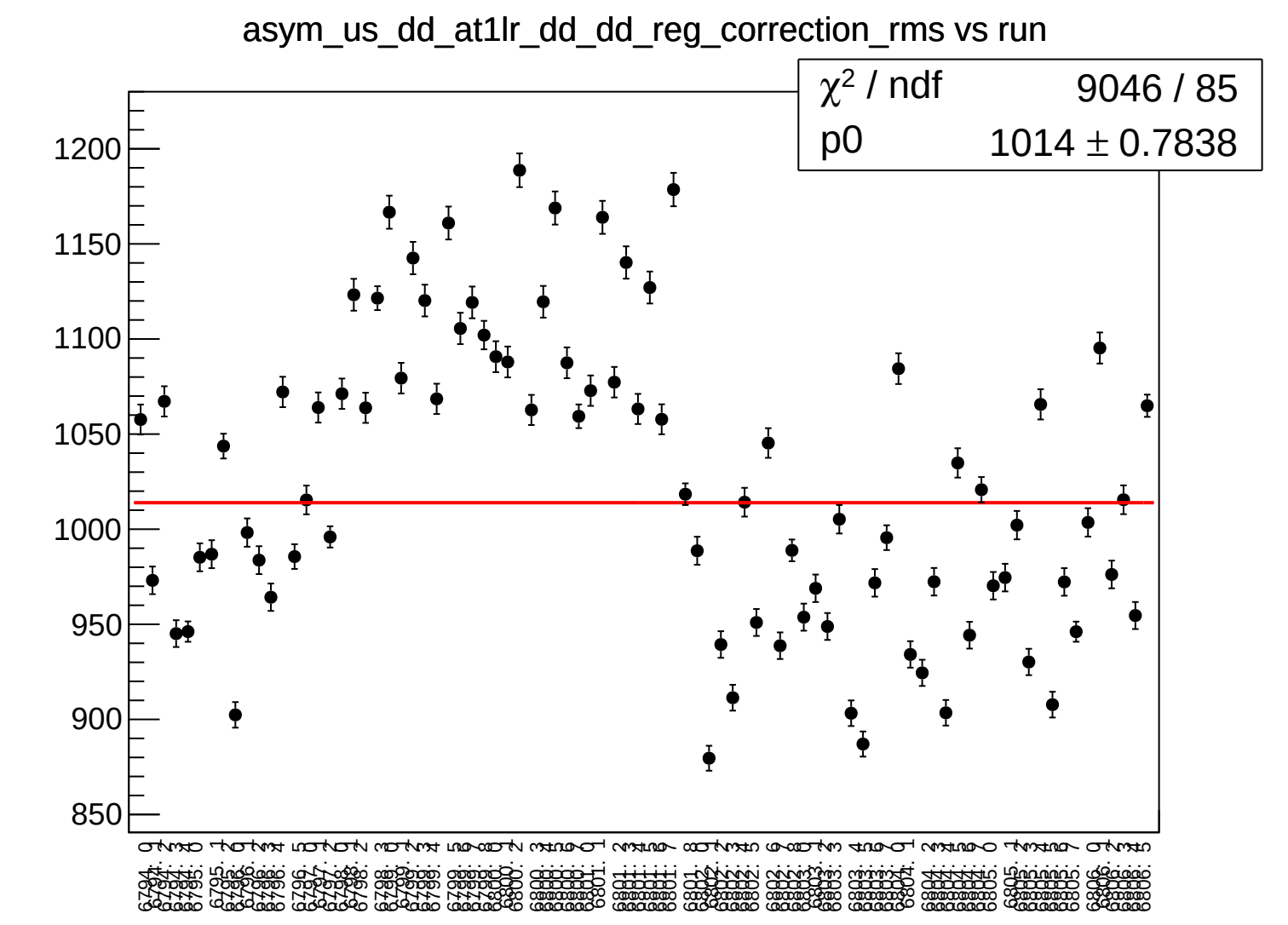

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.49 / 85
p0 2617 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −84.4
Std Dev 0
2
1
0
−1
−2

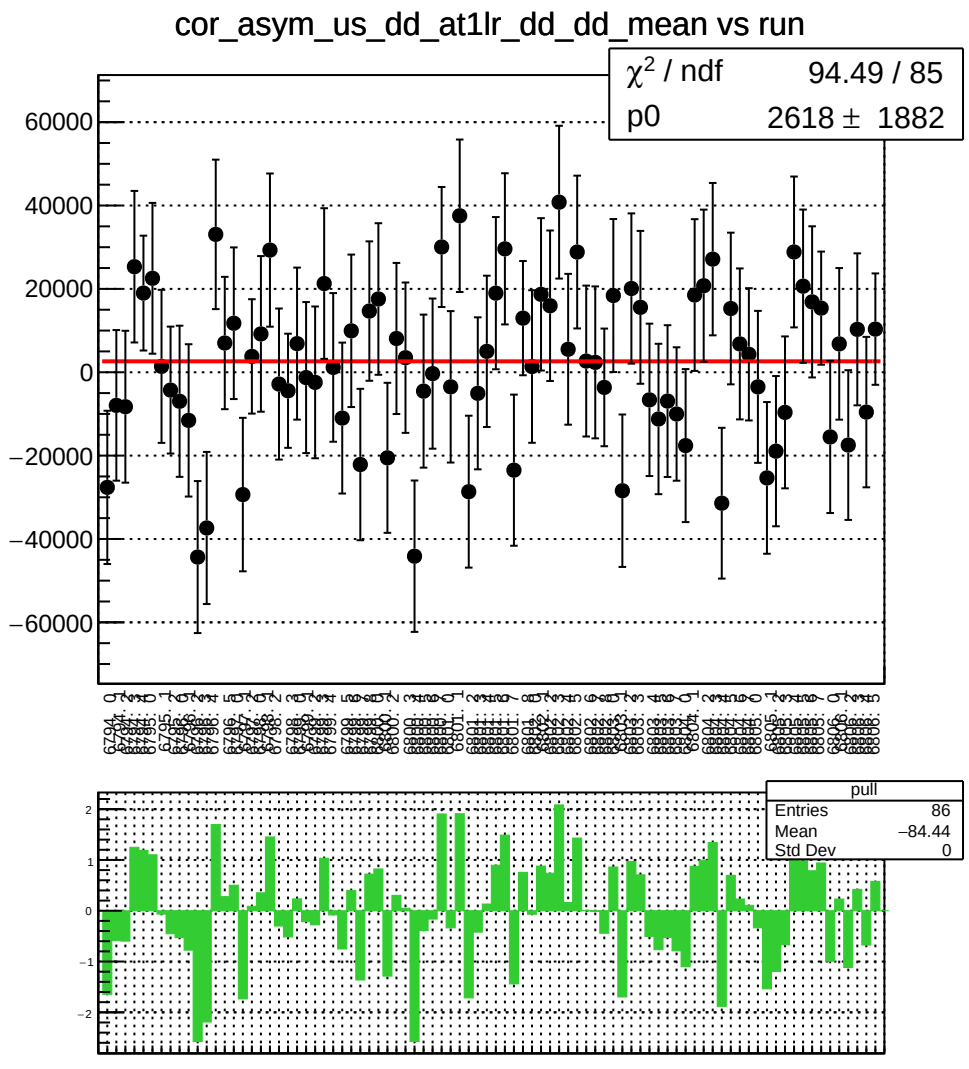

pull1D
Entries 86
Mean −0.01493
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

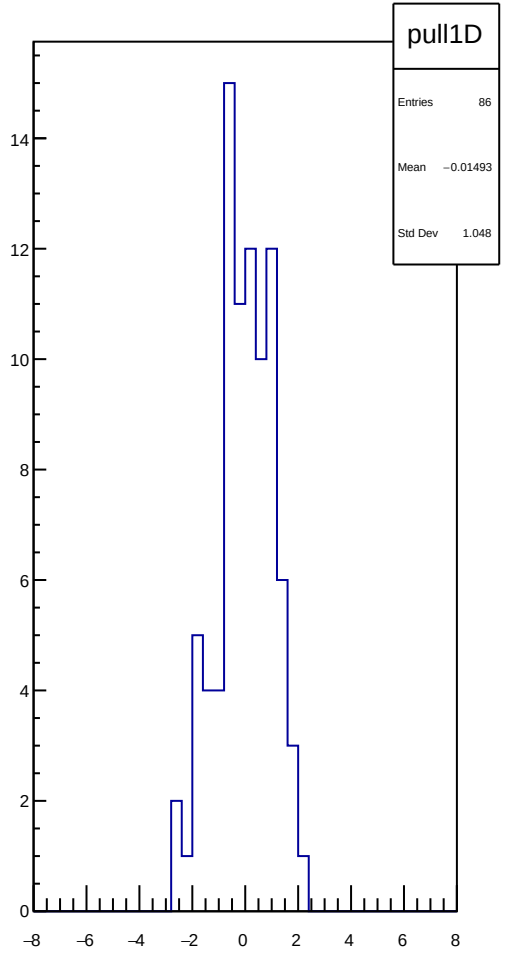

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 74.62 / 85
p0 1726 ± 1.331
1780
1760
1740
1720
1700
1680

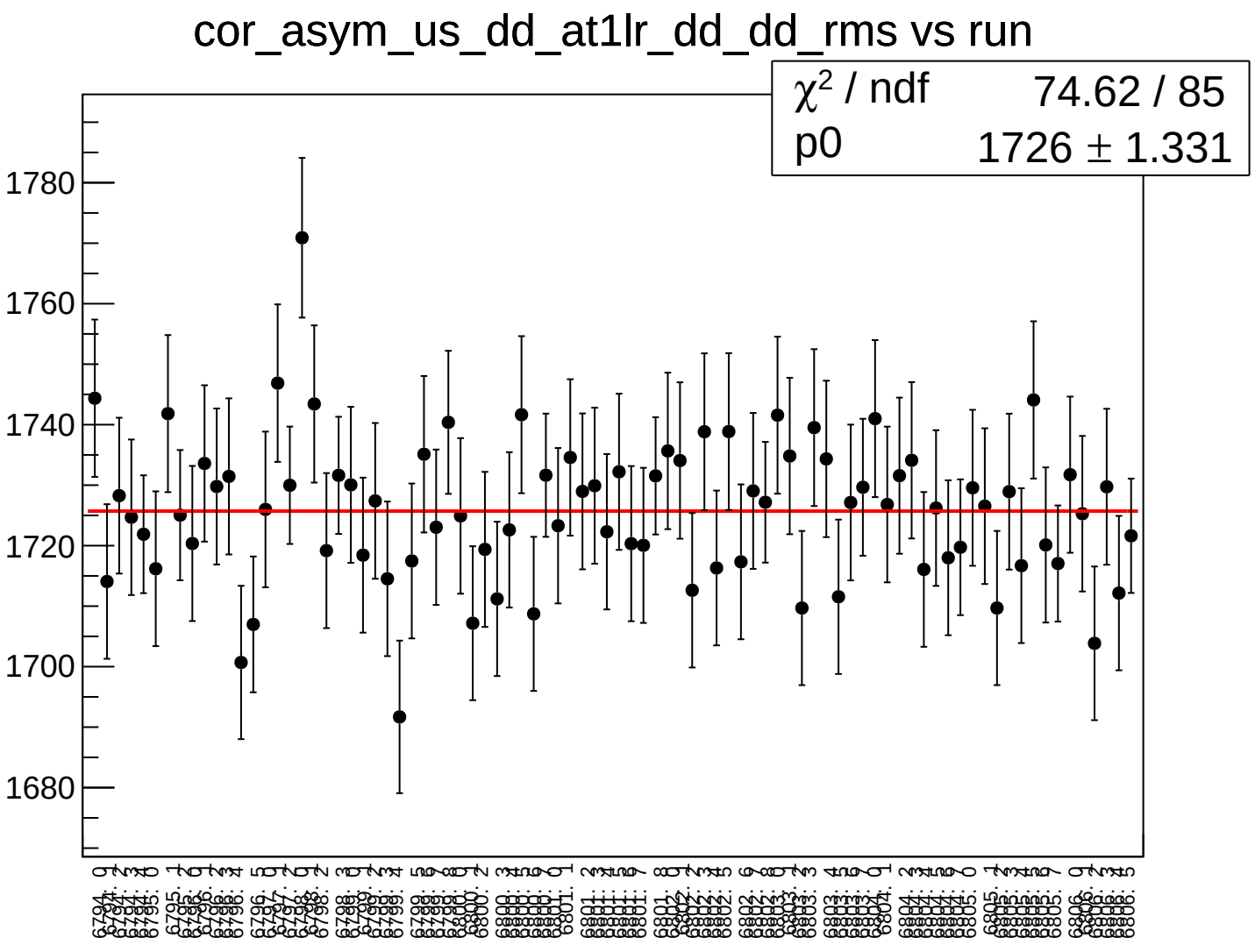

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 84.76 / 85
p0 −435.9 ± 1109
pull
Entries 86
Mean 579.2
Std Dev 0

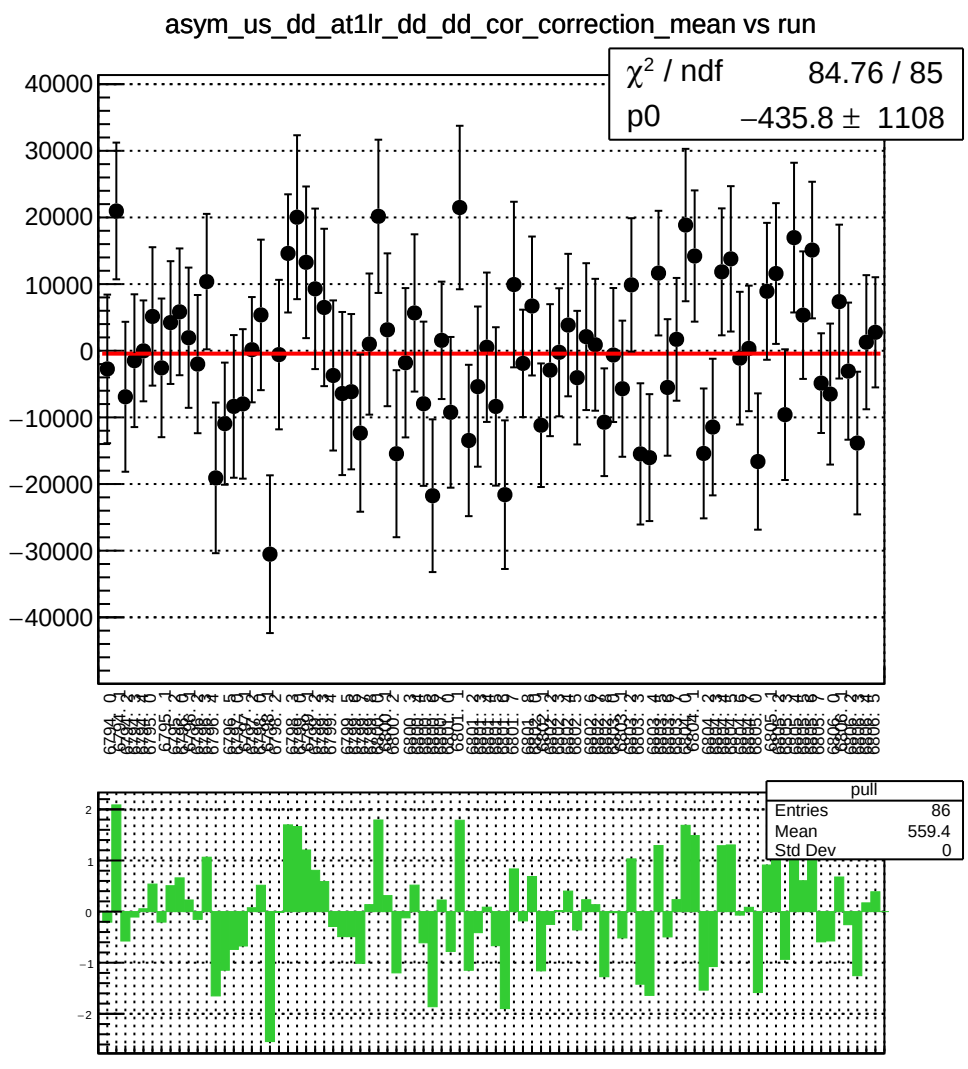

pull1D
Entries 86
Mean 0.0005977
Std Dev 0.9927

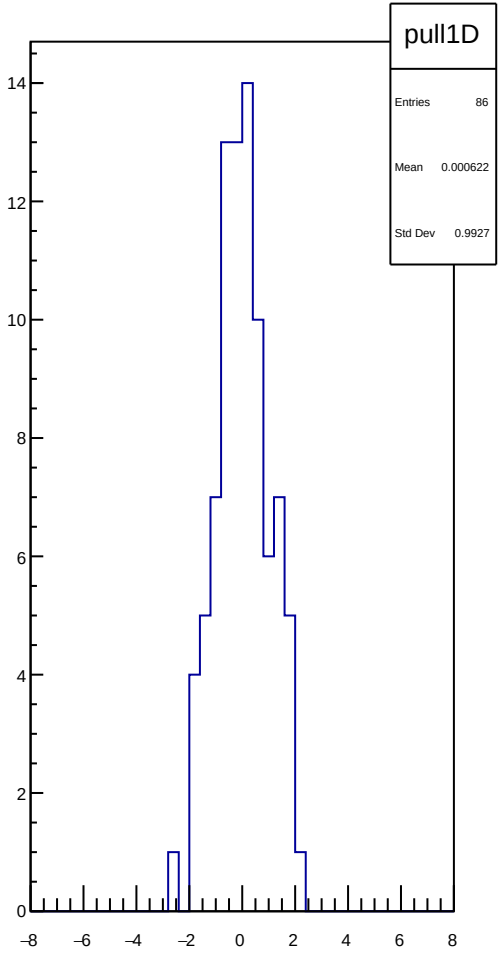

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9046 / 85
p0 1014 ± 0.7838
1200
1150
1100
1050
1000
950
900
850

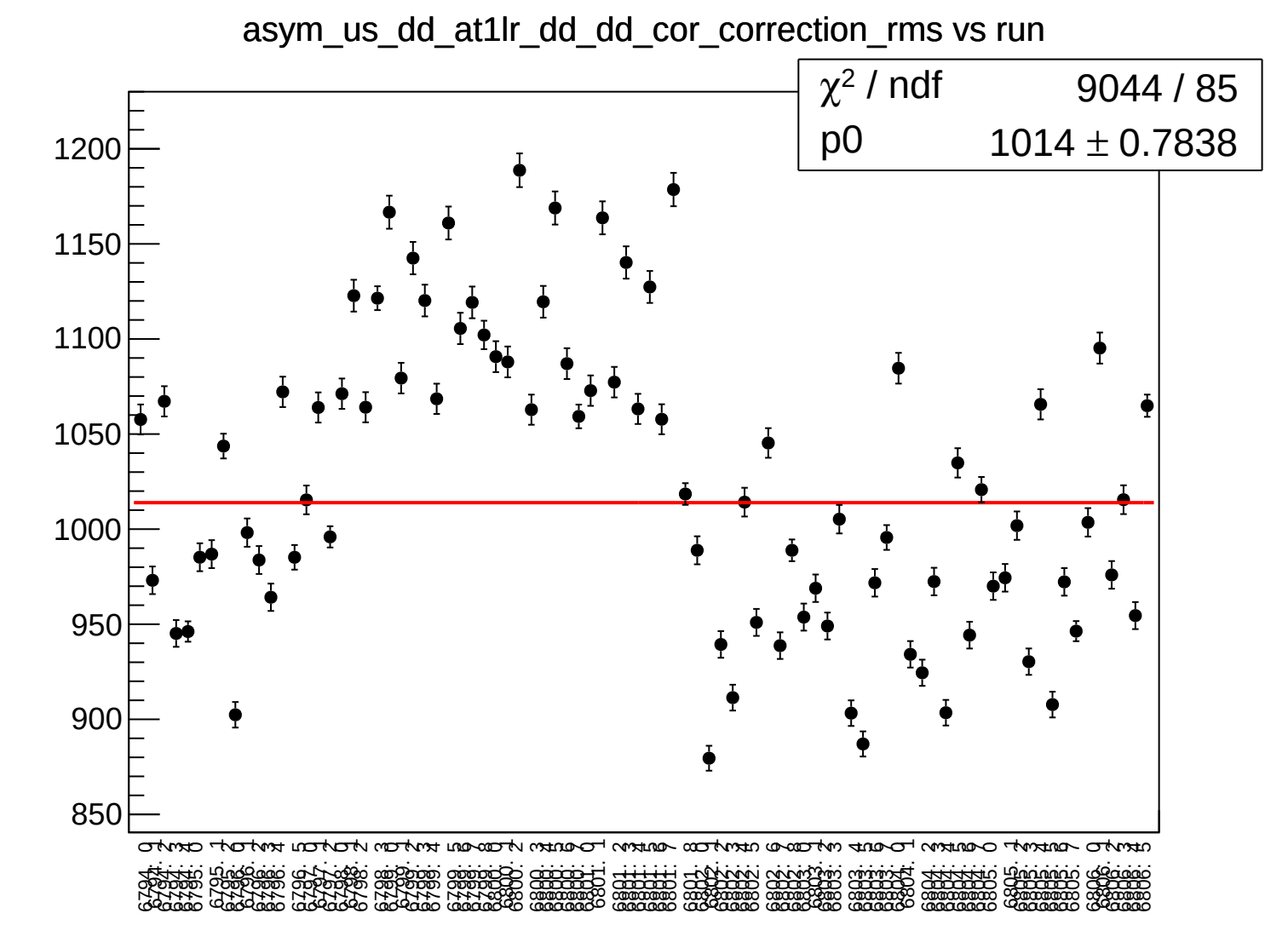

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.49 / 85
p0 2618 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −84.44
Std Dev 0
2
1
0
−1
−2

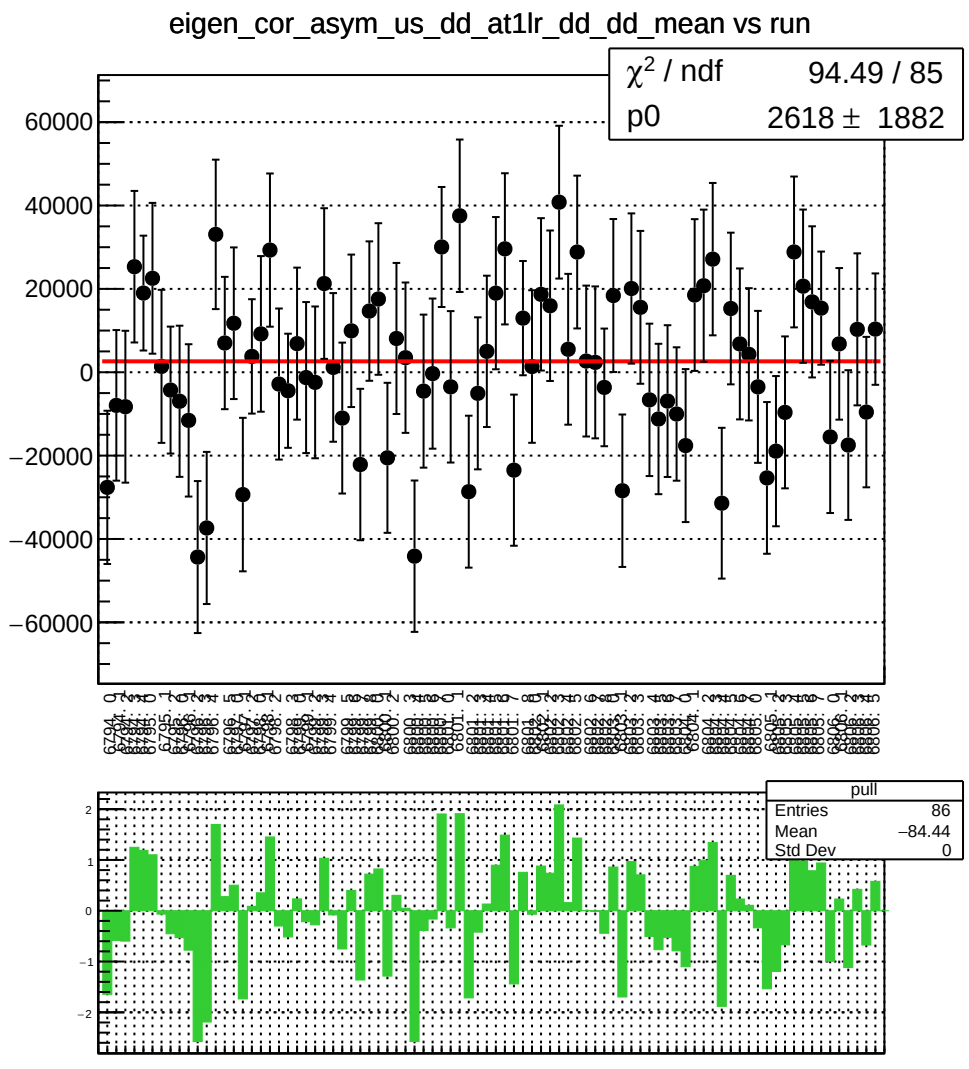

pull1D
Entries 86
Mean −0.01493
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

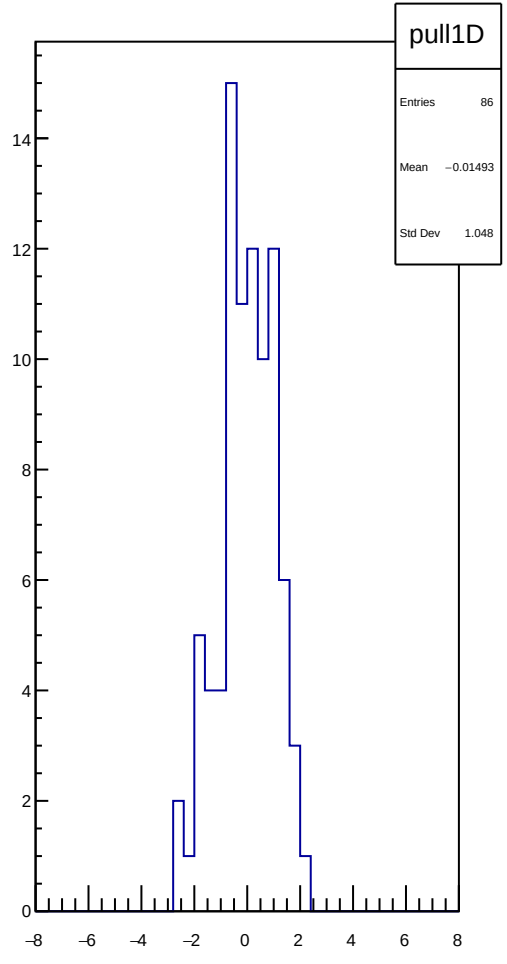

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 74.62 / 85
p0 1726 ± 1.331
1780
1760
1740
1720
1700
1680

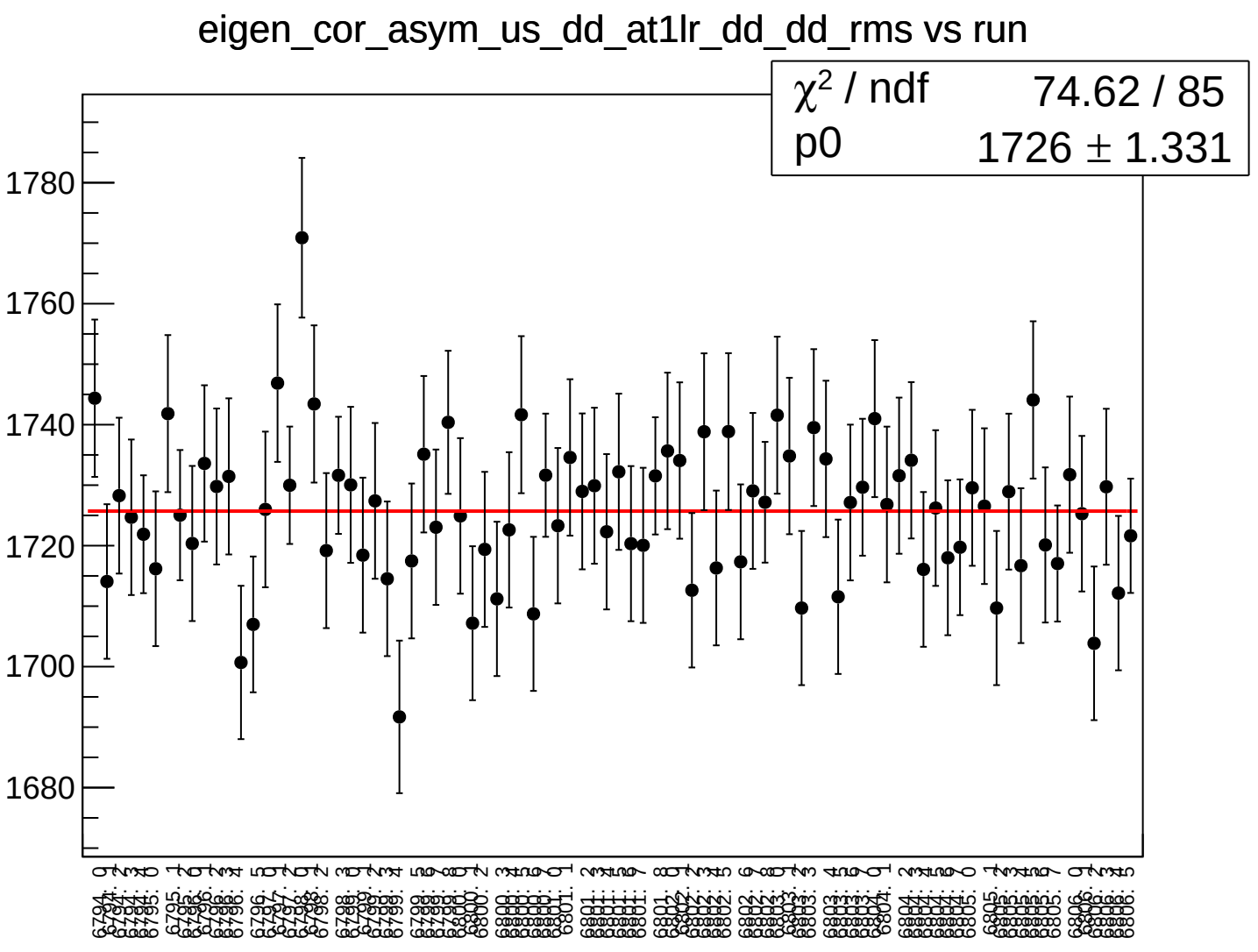

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 84.76 / 85
p0 −435.8 ± 1108
pull
Entries 86
Mean 559.4
Std Dev 0

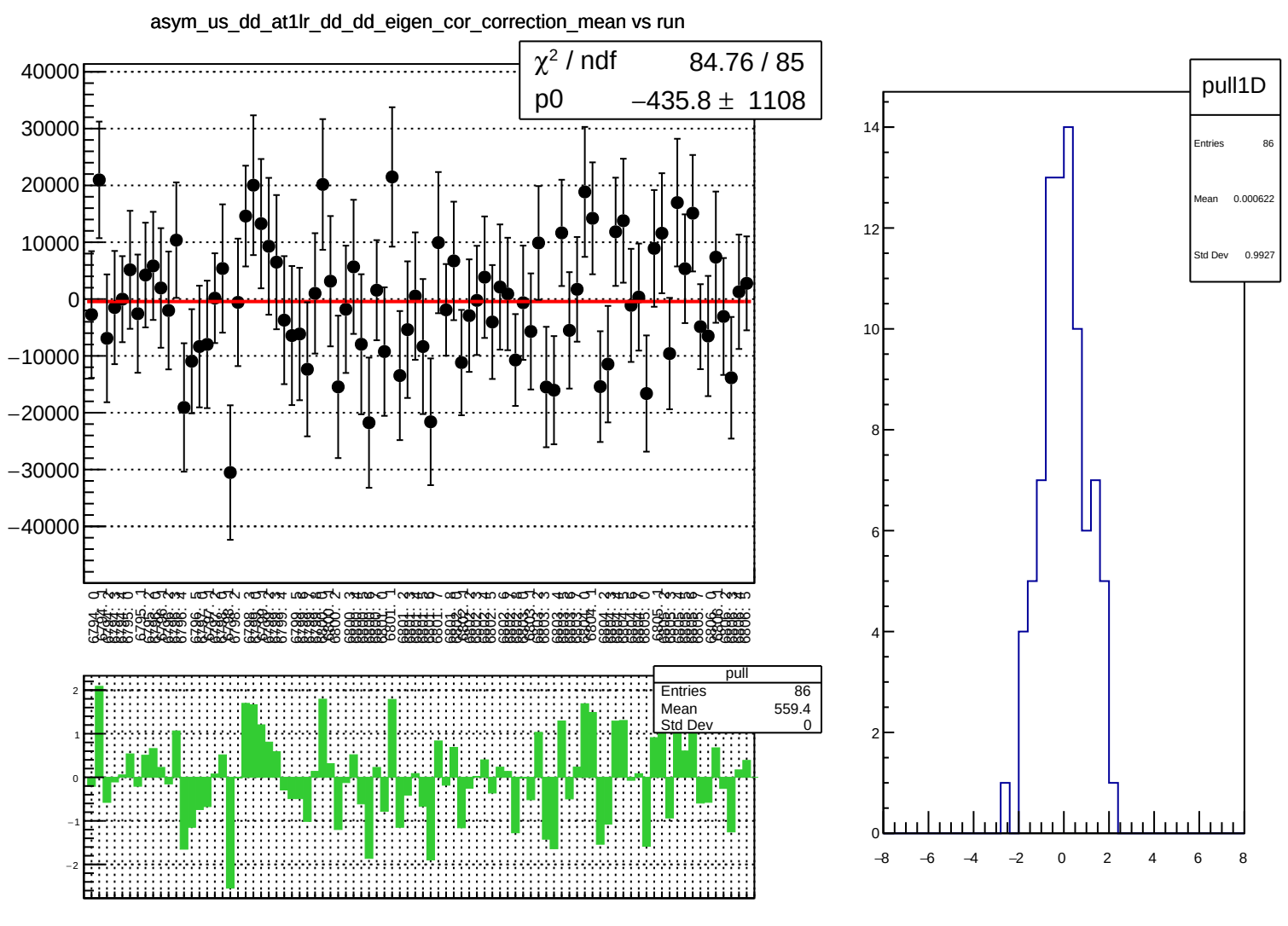

pull1D
Entries 86
Mean 0.000622
Std Dev 0.9927

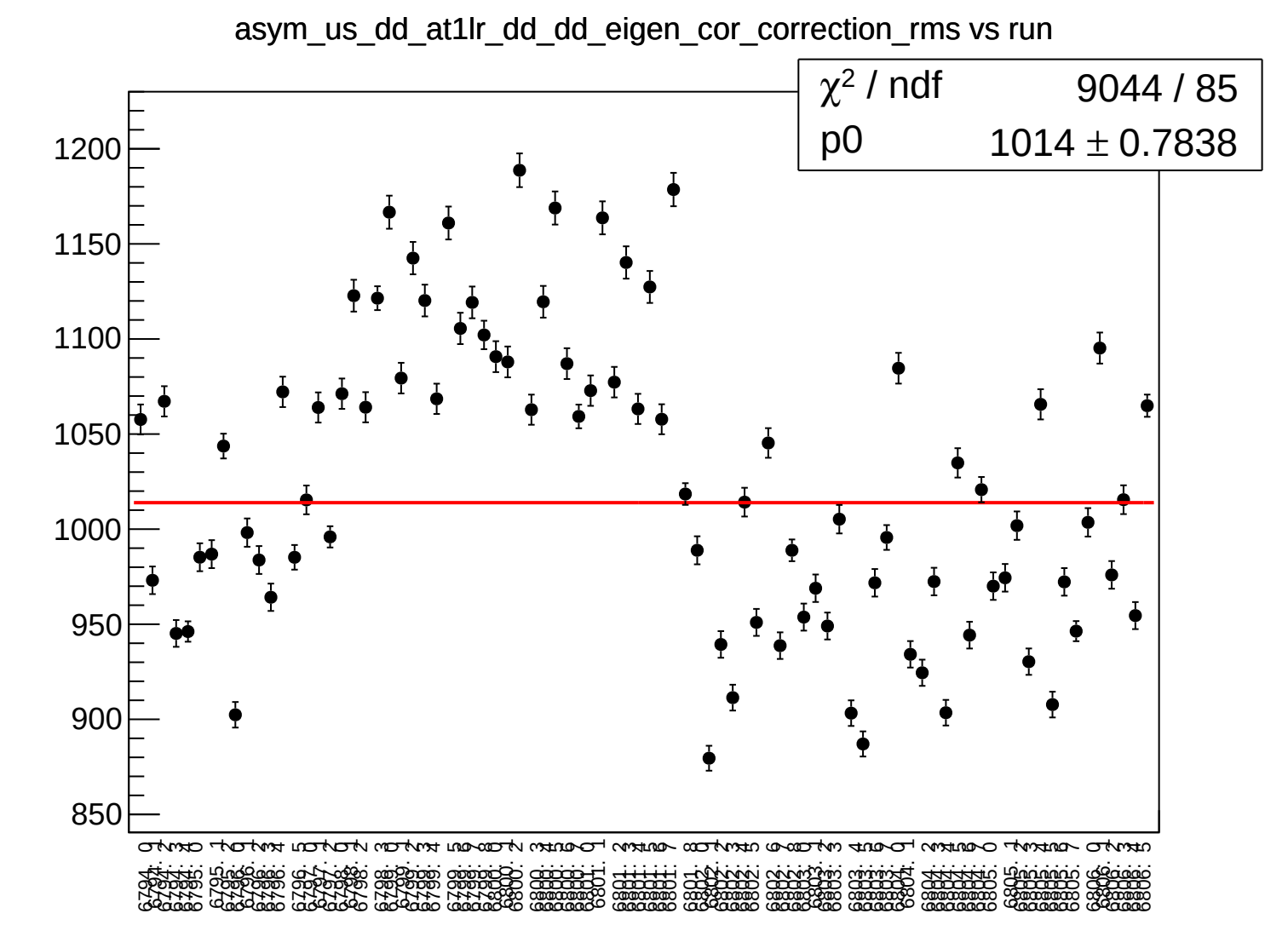

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9044 / 85
p0 1014 ± 0.7838
1200
1150
1100
1050
1000
950
900
850

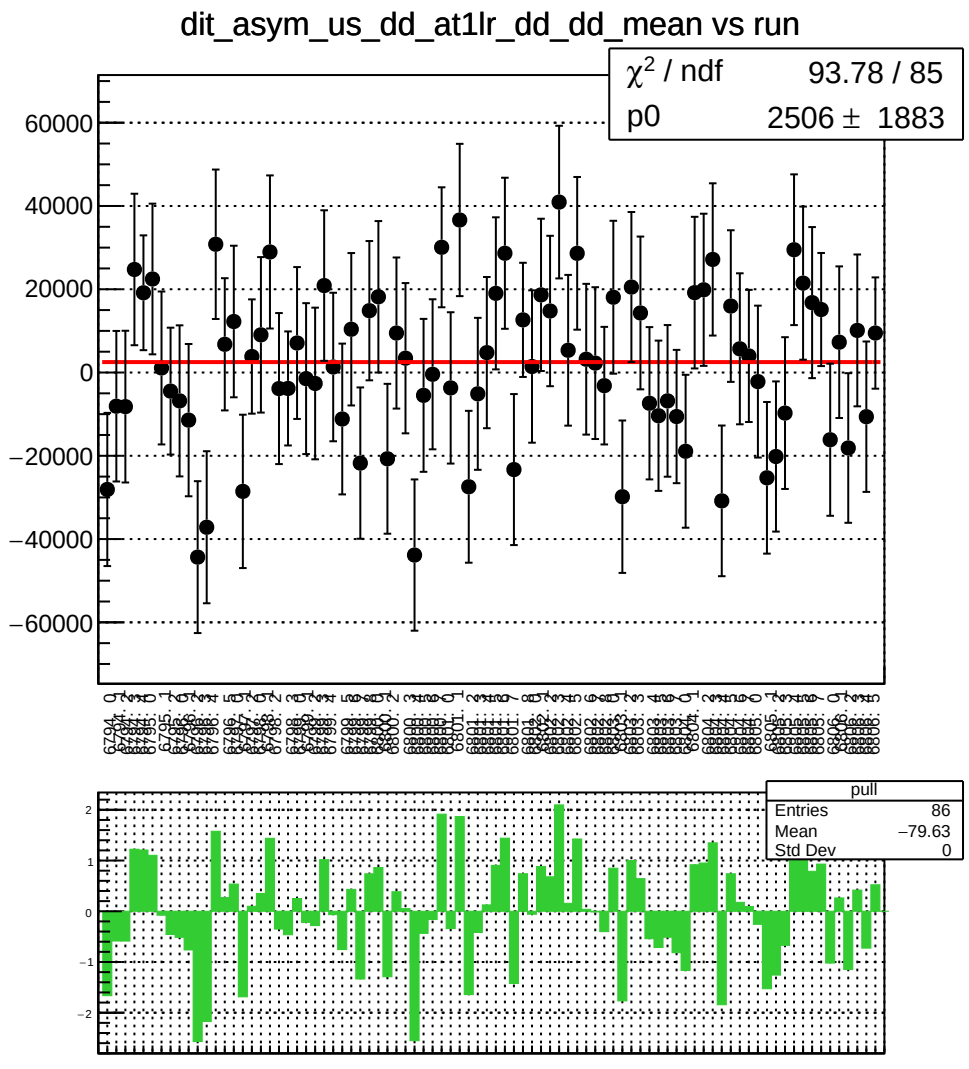

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 94.49 / 85
p0 2618 ± 1882
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −84.44
Std Dev 0
2
1
0
−1
−2

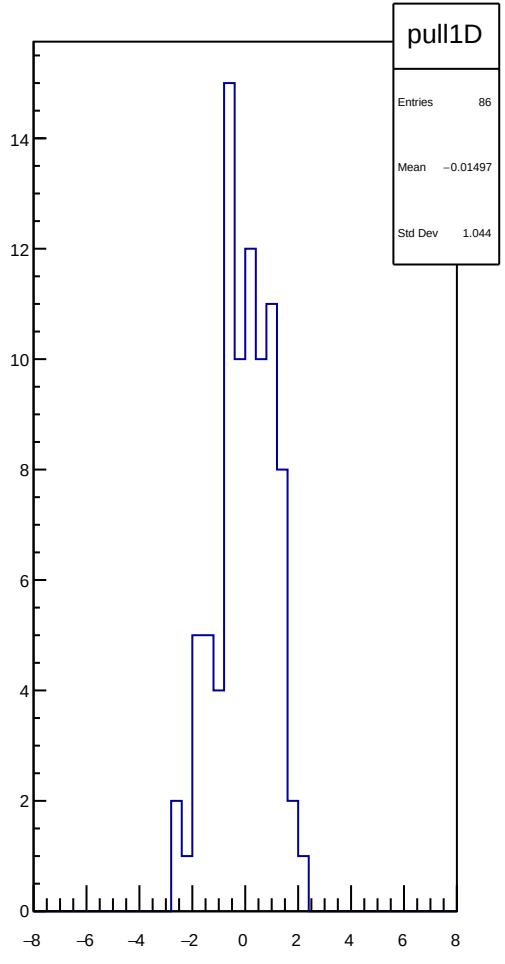

pull1D
Entries 86
Mean −0.01493
Std Dev 1.048
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

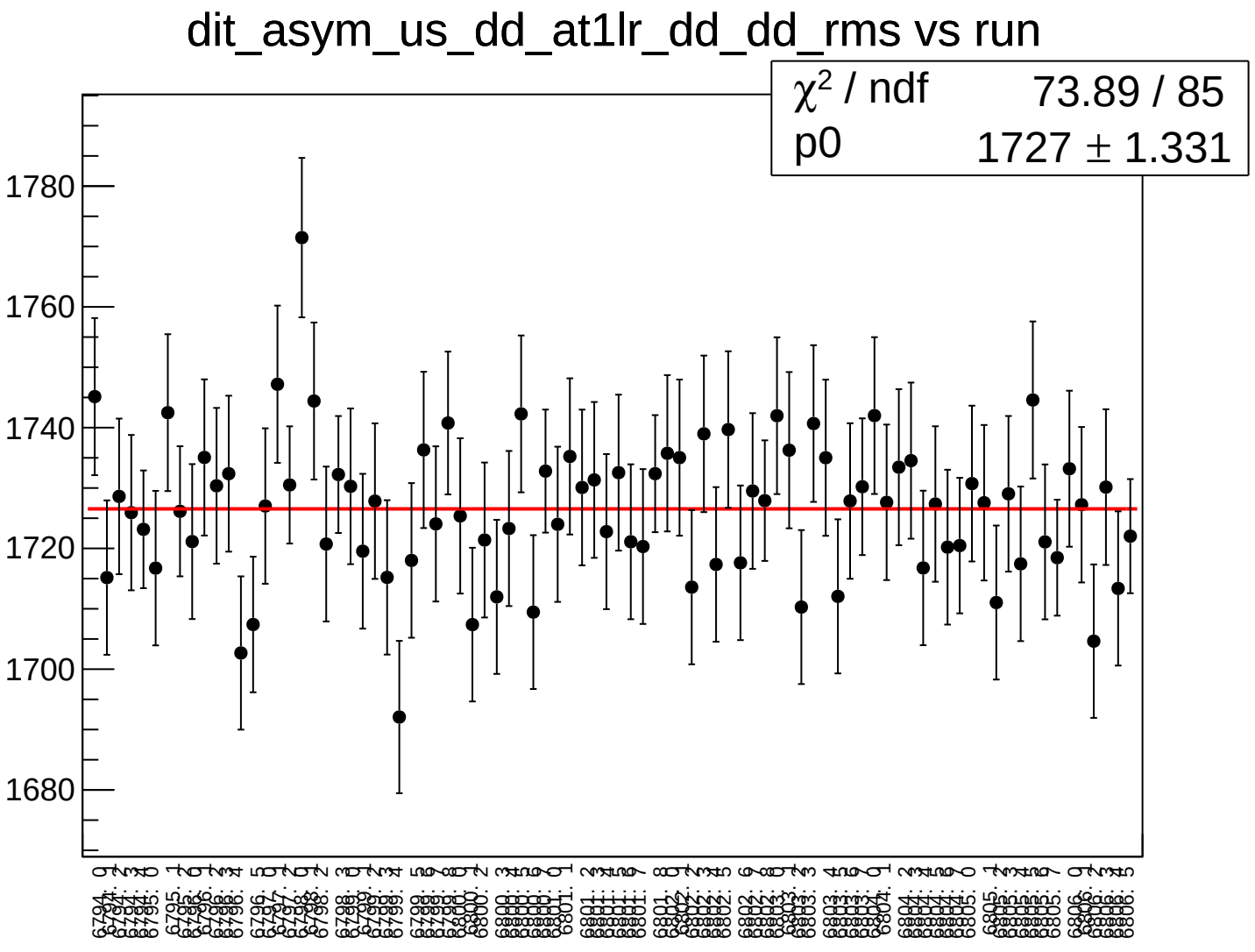

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 74.62 / 85
p0 1726 ± 1.331
1780
1760
1740
1720
1700
1680

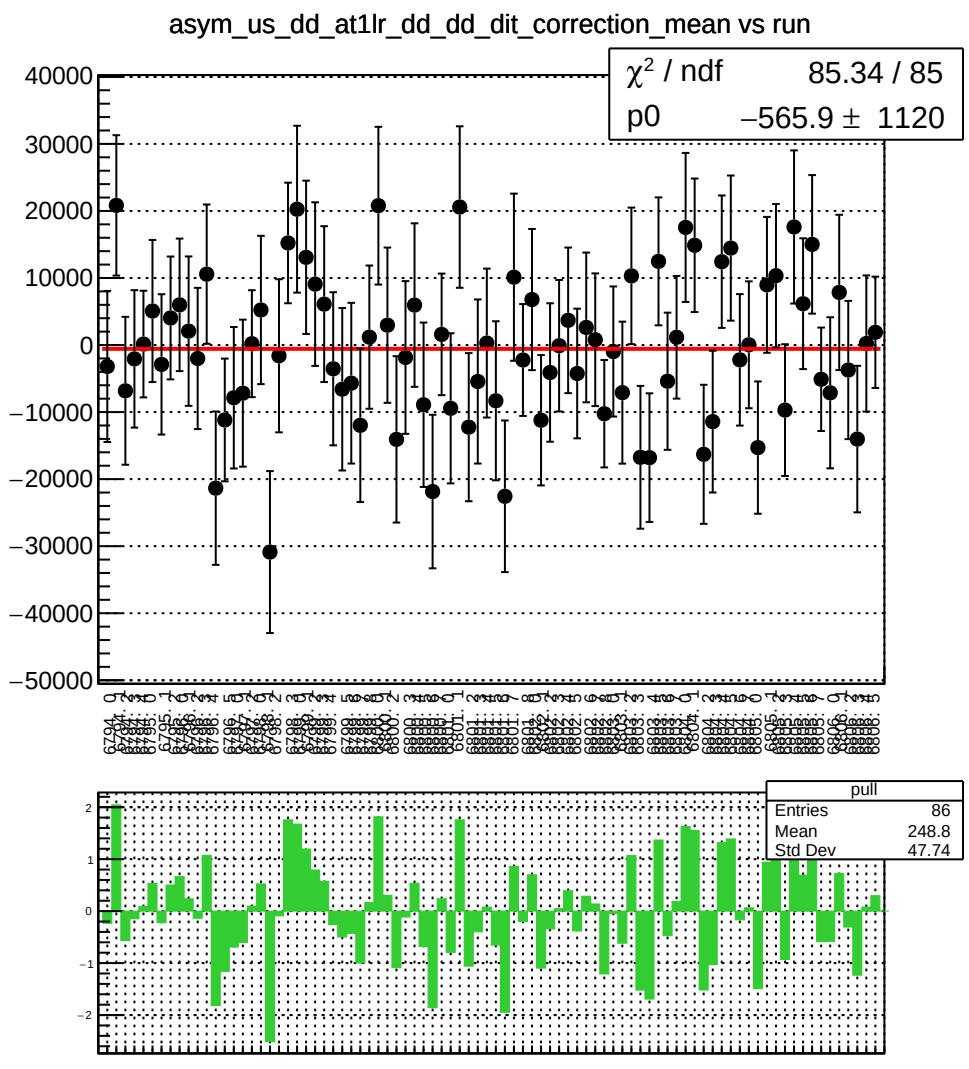

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 84.76 / 85
p0 −435.8 ± 1108
pull
Entries 86
Mean 559.4
Std Dev 0
pull1D
Entries 86
Mean 0.000622
Std Dev 0.9927

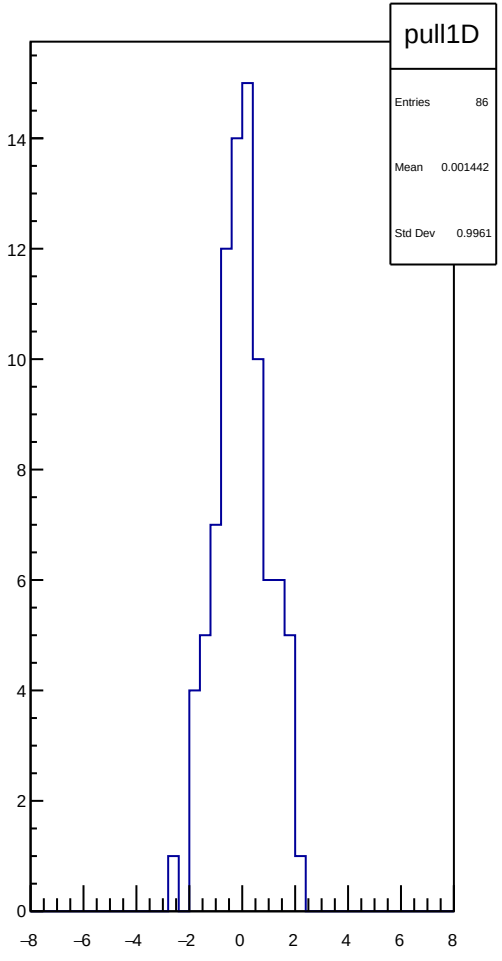

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9044 / 85
p0 1014 ± 0.7838
1200
1150
1100
1050
1000
950
900
850

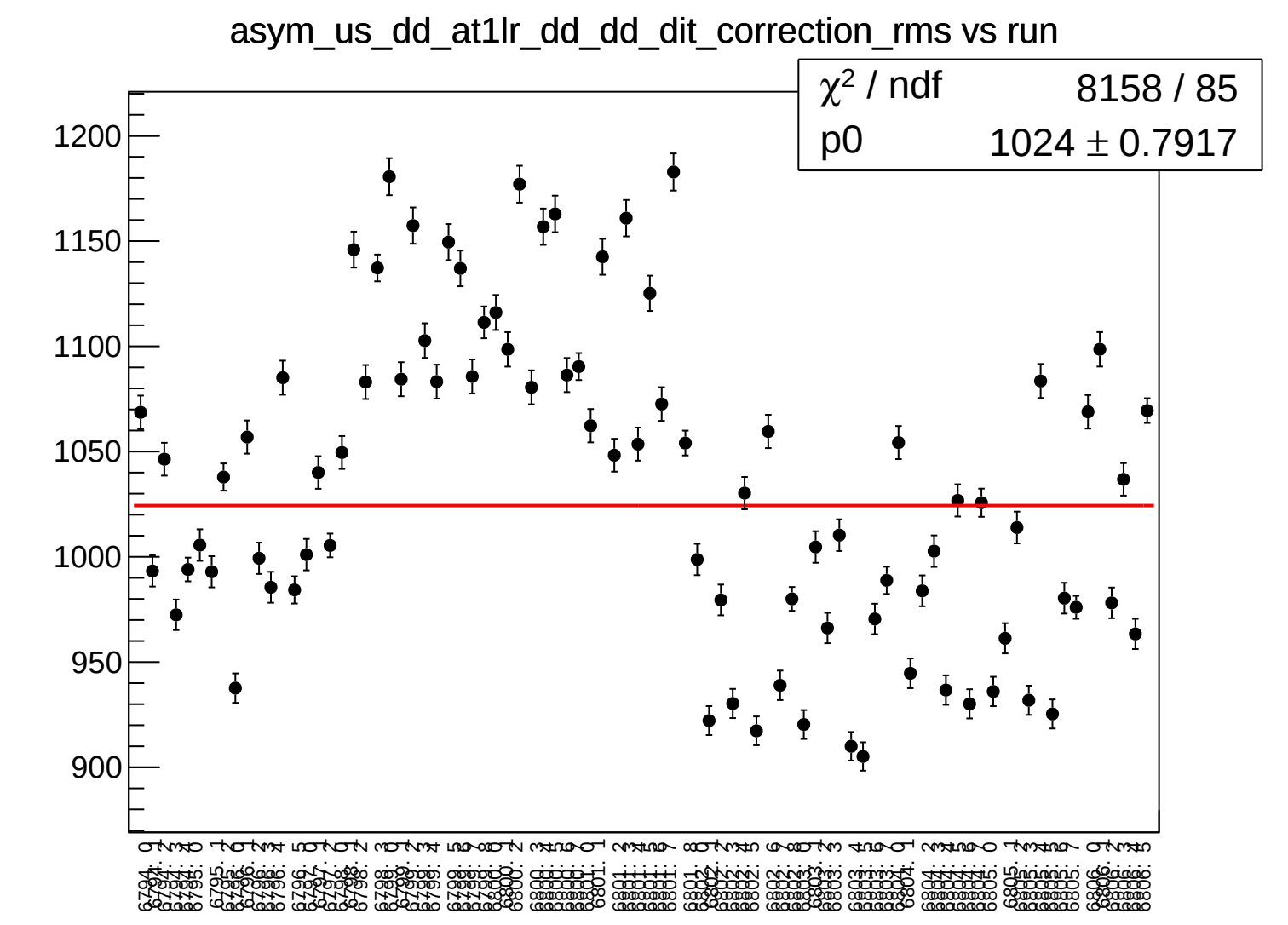

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.78 / 85
p0 2506 ± 1883
pull
Entries 86
Mean −79.63
Std Dev 0

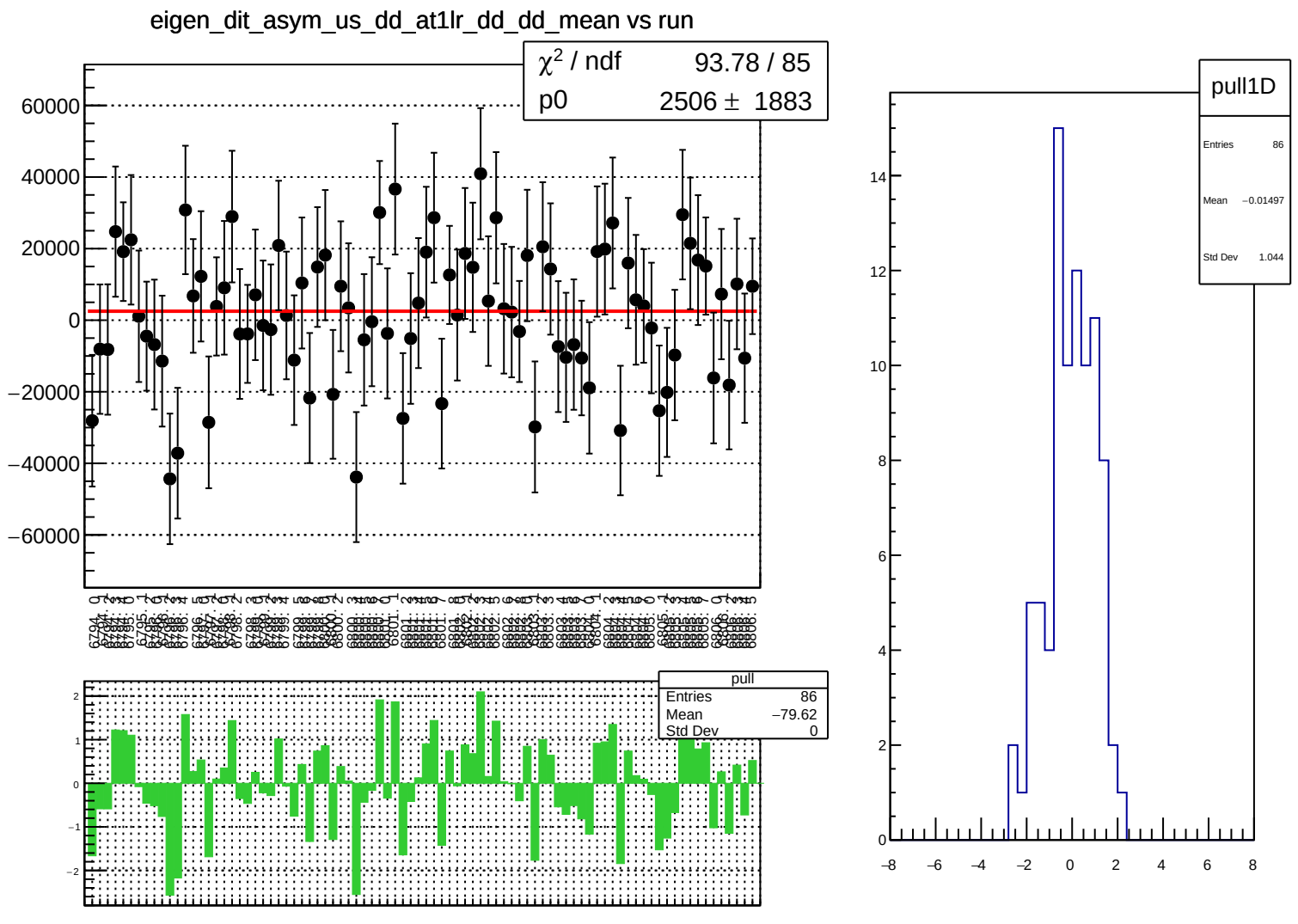

pull1D
Entries 86
Mean −0.01497
Std Dev 1.044

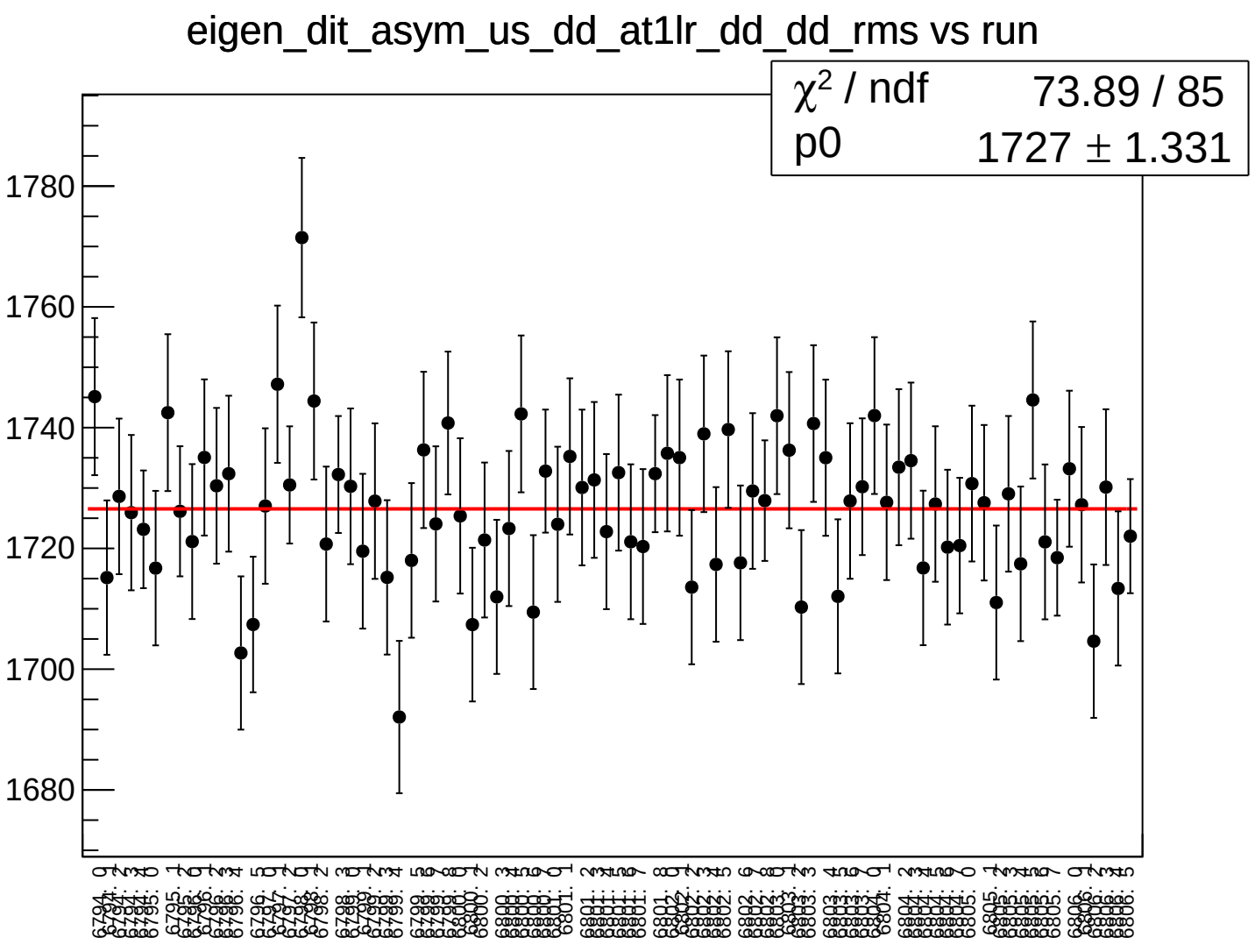

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 73.89 / 85
p0 1727 ± 1.331
1780
1760
1740
1720
1700
1680

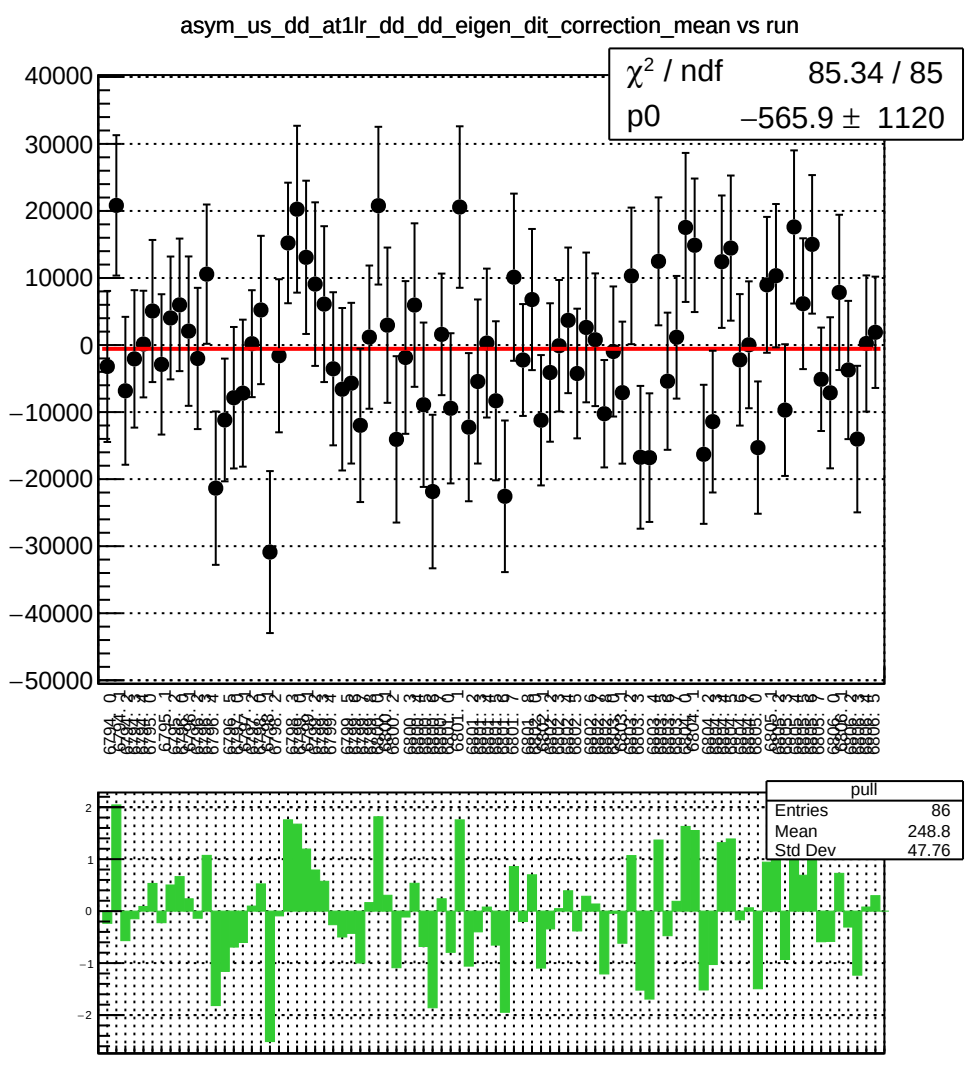

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 85.34 / 85
p0 −565.9 ± 1120
pull
Entries 86
Mean 248.8
Std Dev 47.74

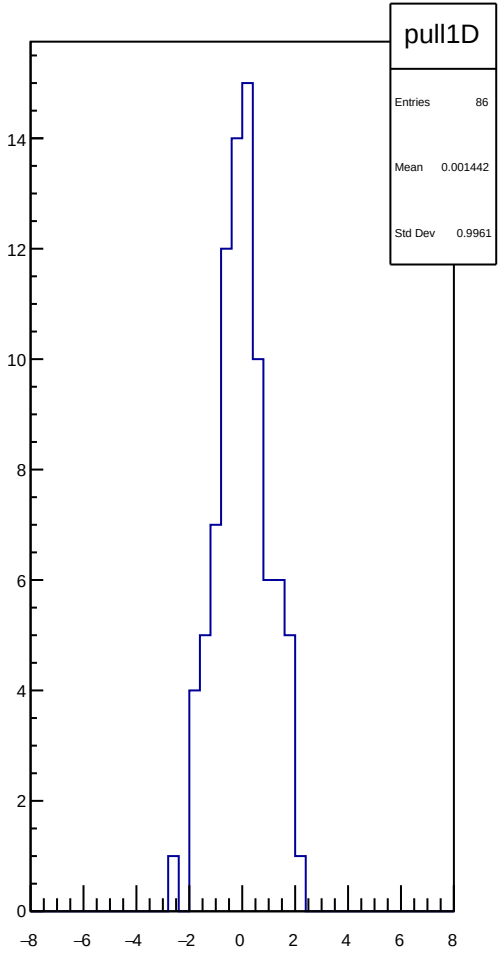

pull1D
Entries 86
Mean 0.001442
Std Dev 0.9961

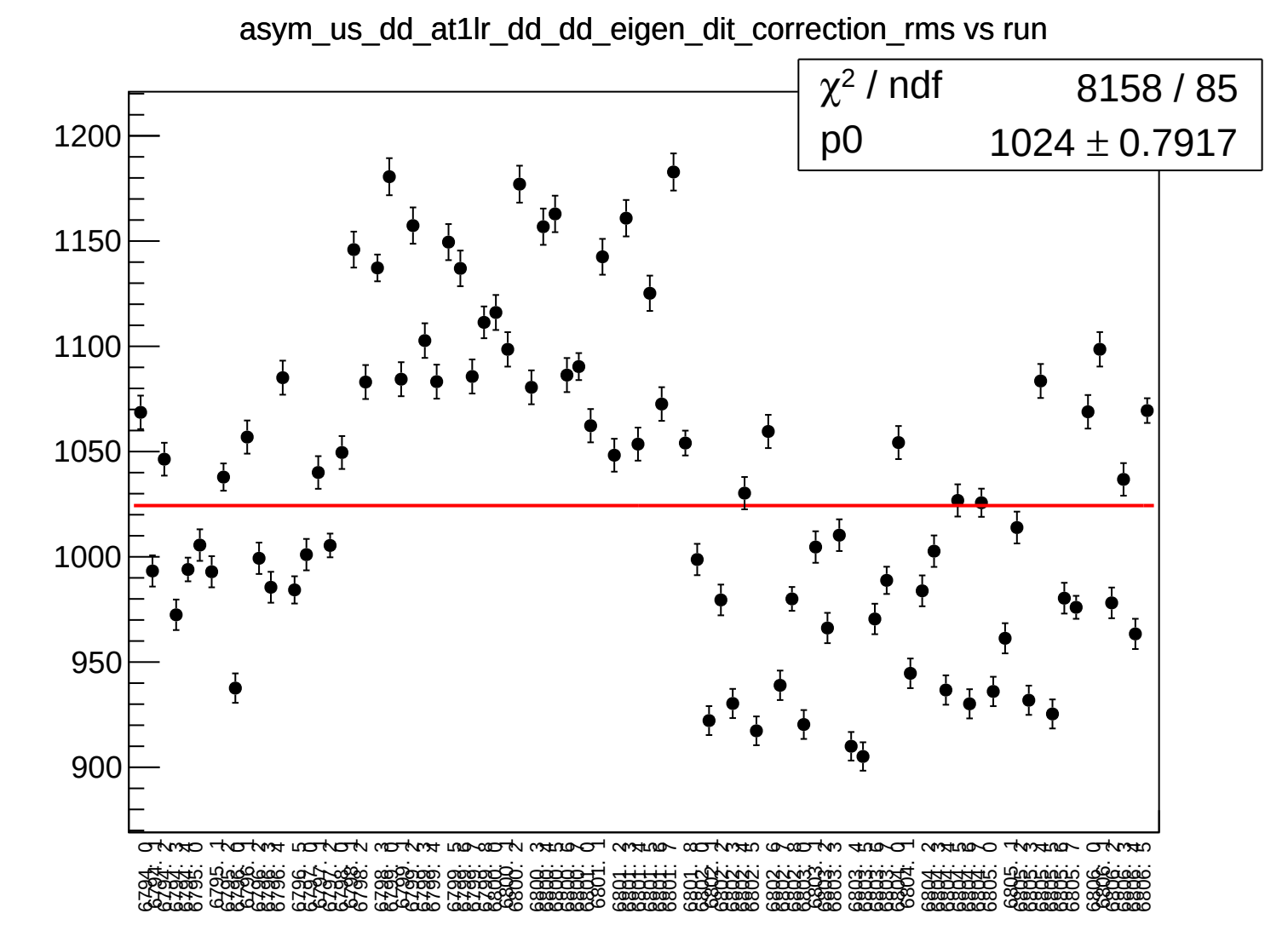

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 8158 / 85
p0 1024 ± 0.7917
1200
1150
1100
1050
1000
950
900

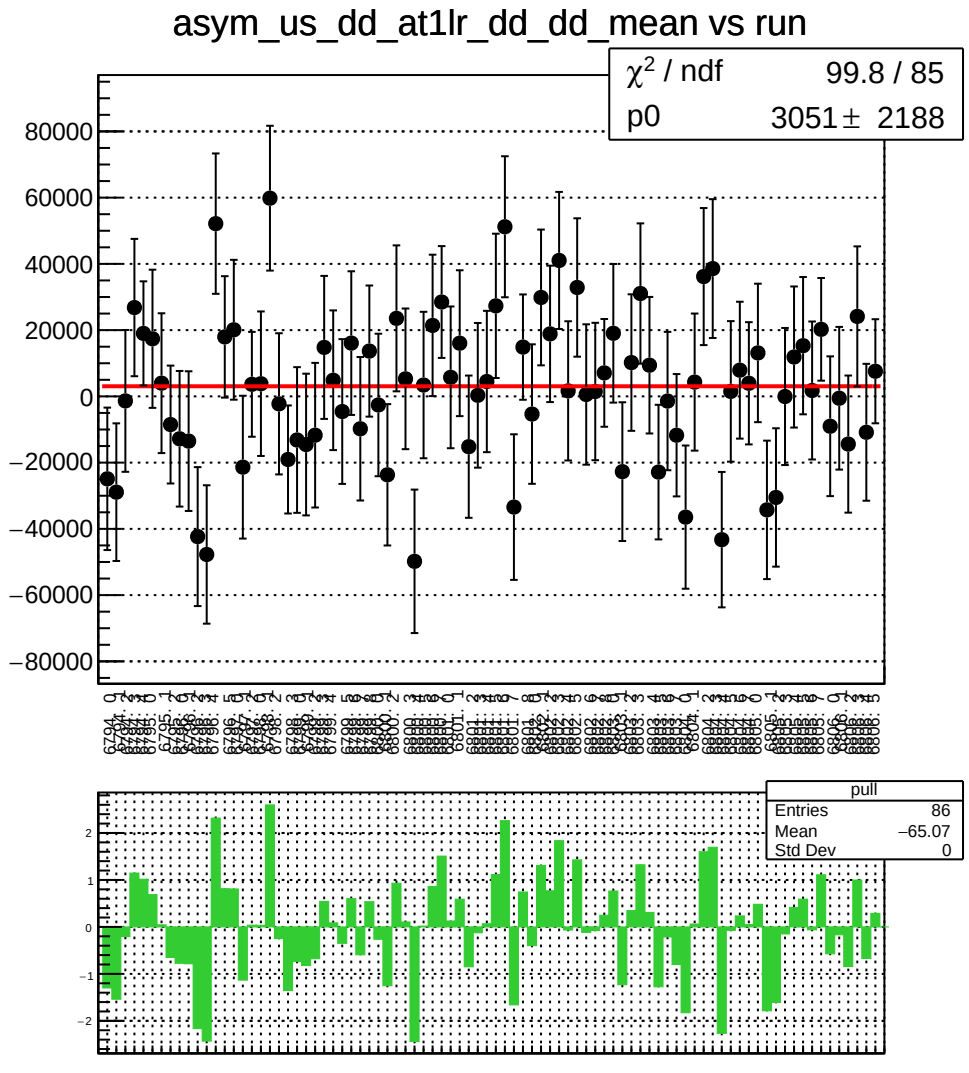

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.78 / 85
p0 2506 ± 1883
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −79.62
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.01497
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

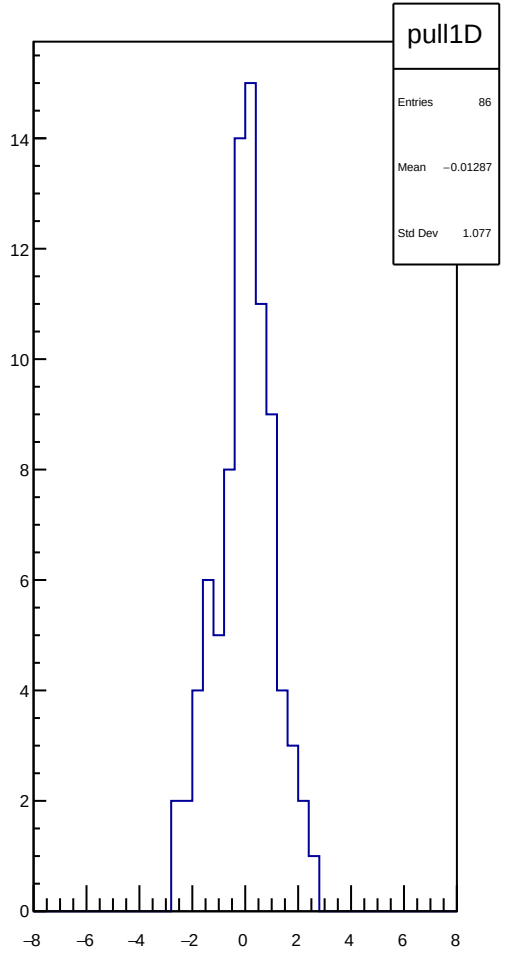

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 73.89 / 85
p0 1727 ± 1.331
1780
1760
1740
1720
1700
1680

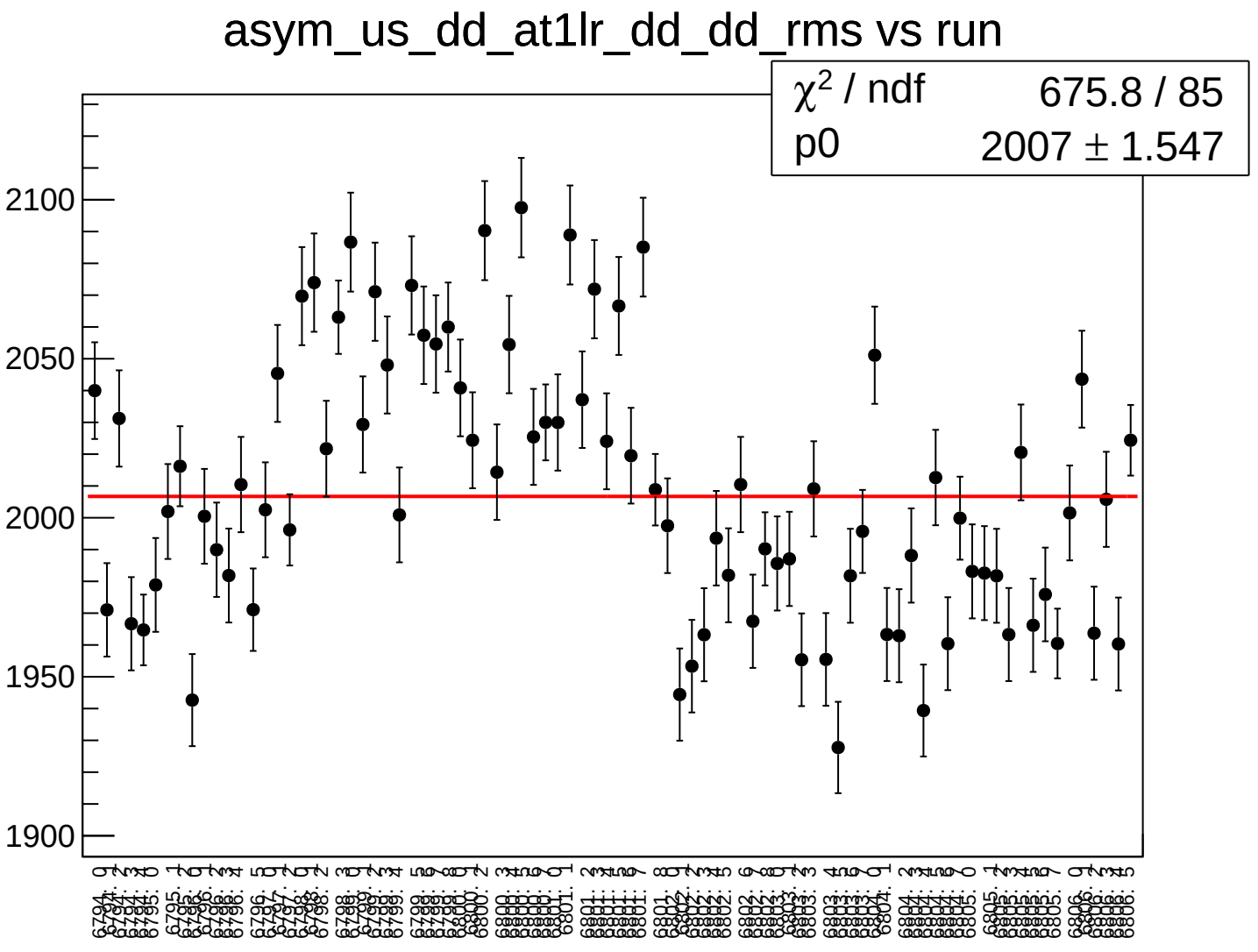

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 85.34 / 85
p0 −565.9 ± 1120
pull
Entries 86
Mean 248.8
Std Dev 47.76

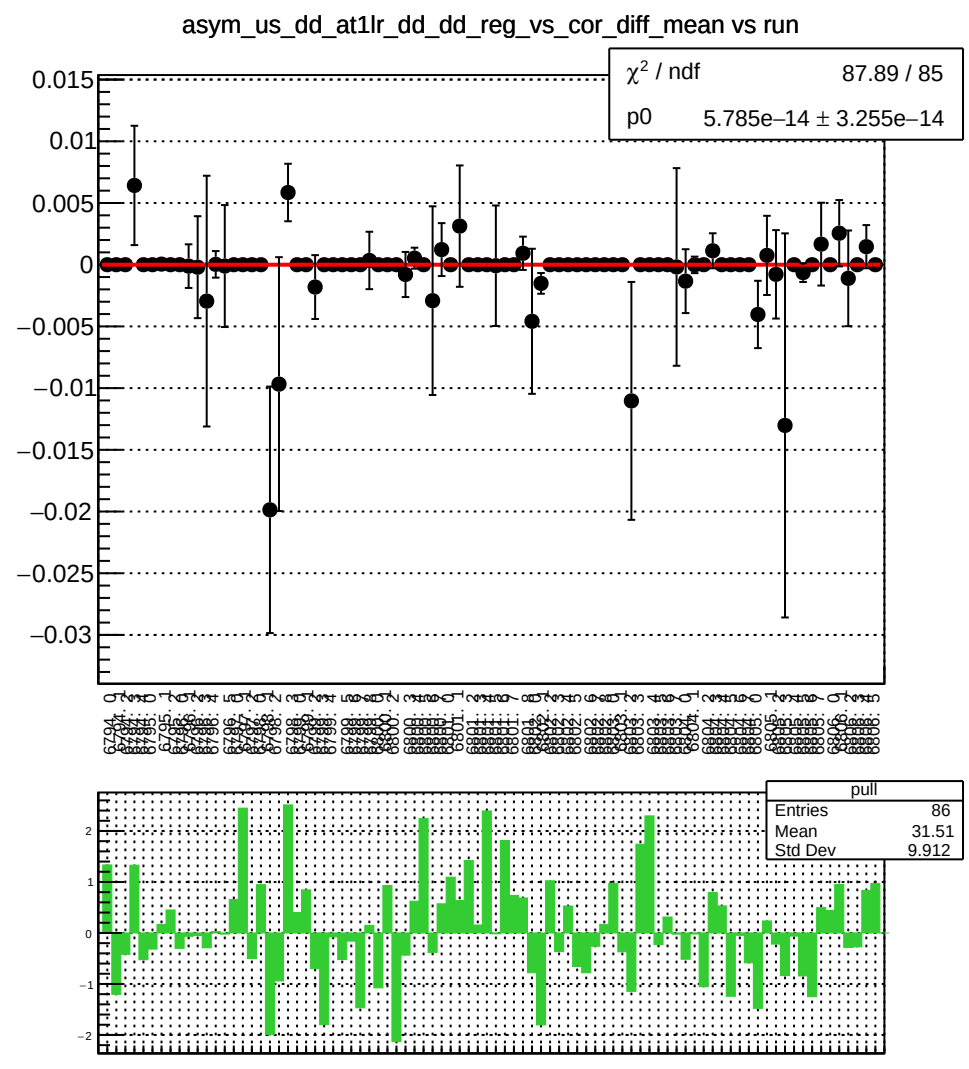

pull1D
Entries 86
Mean 0.001442
Std Dev 0.9961

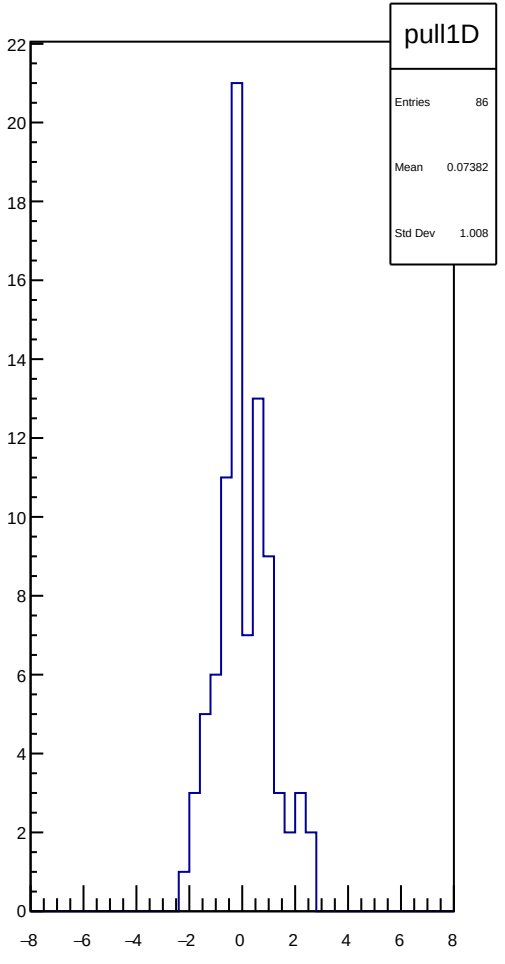

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8158 / 85
p0 1024 ± 0.7917
1200
1150
1100
1050
1000
950
900

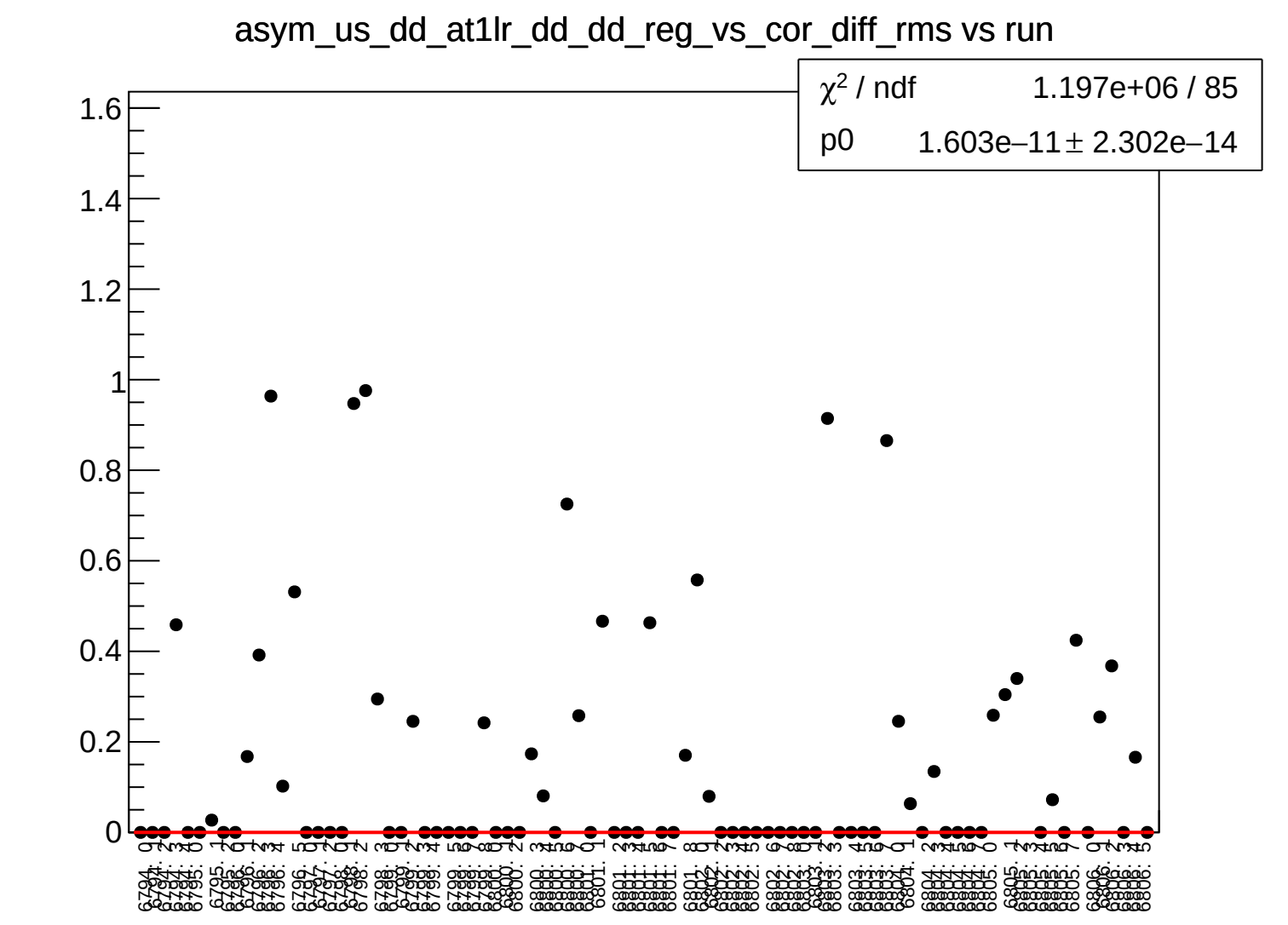

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 99.8 / 85
p0 3051 ± 2188
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −65.07
Std Dev 0
2
1
0
−1
−2

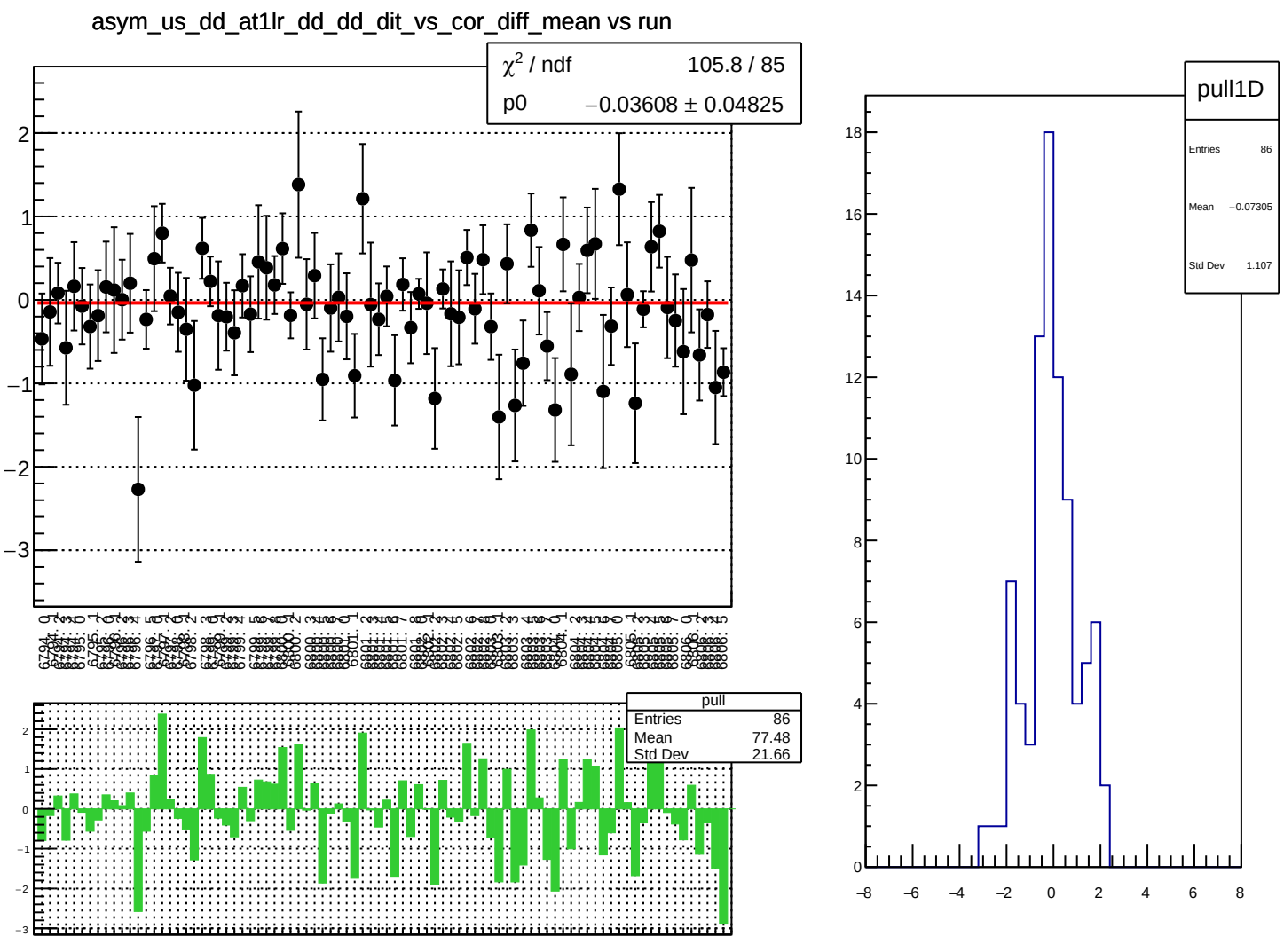

pull1D
Entries 86
Mean −0.01287
Std Dev 1.077
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

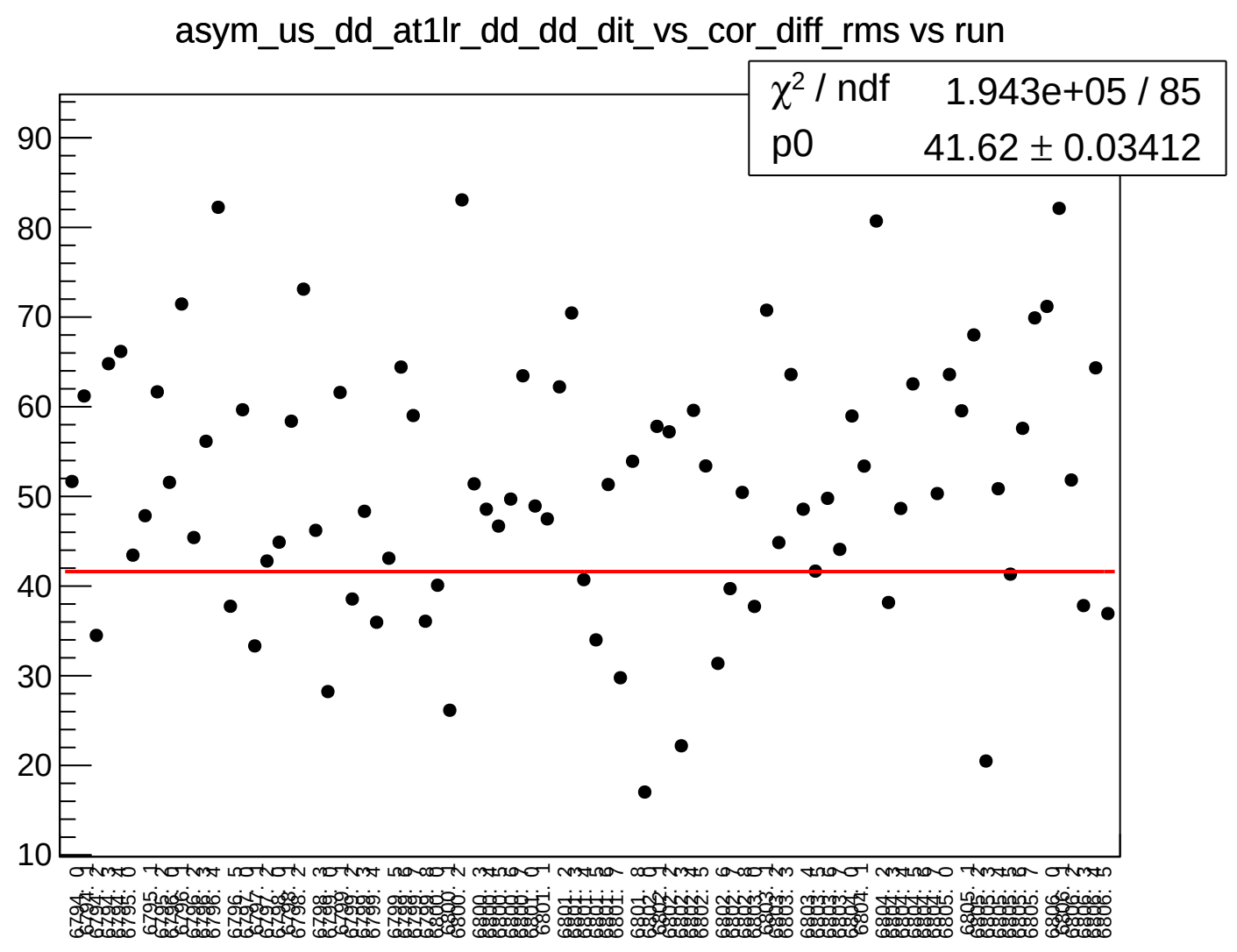

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 675.8 / 85
p0 2007 ± 1.547
2100
2050
2000
1950
1900

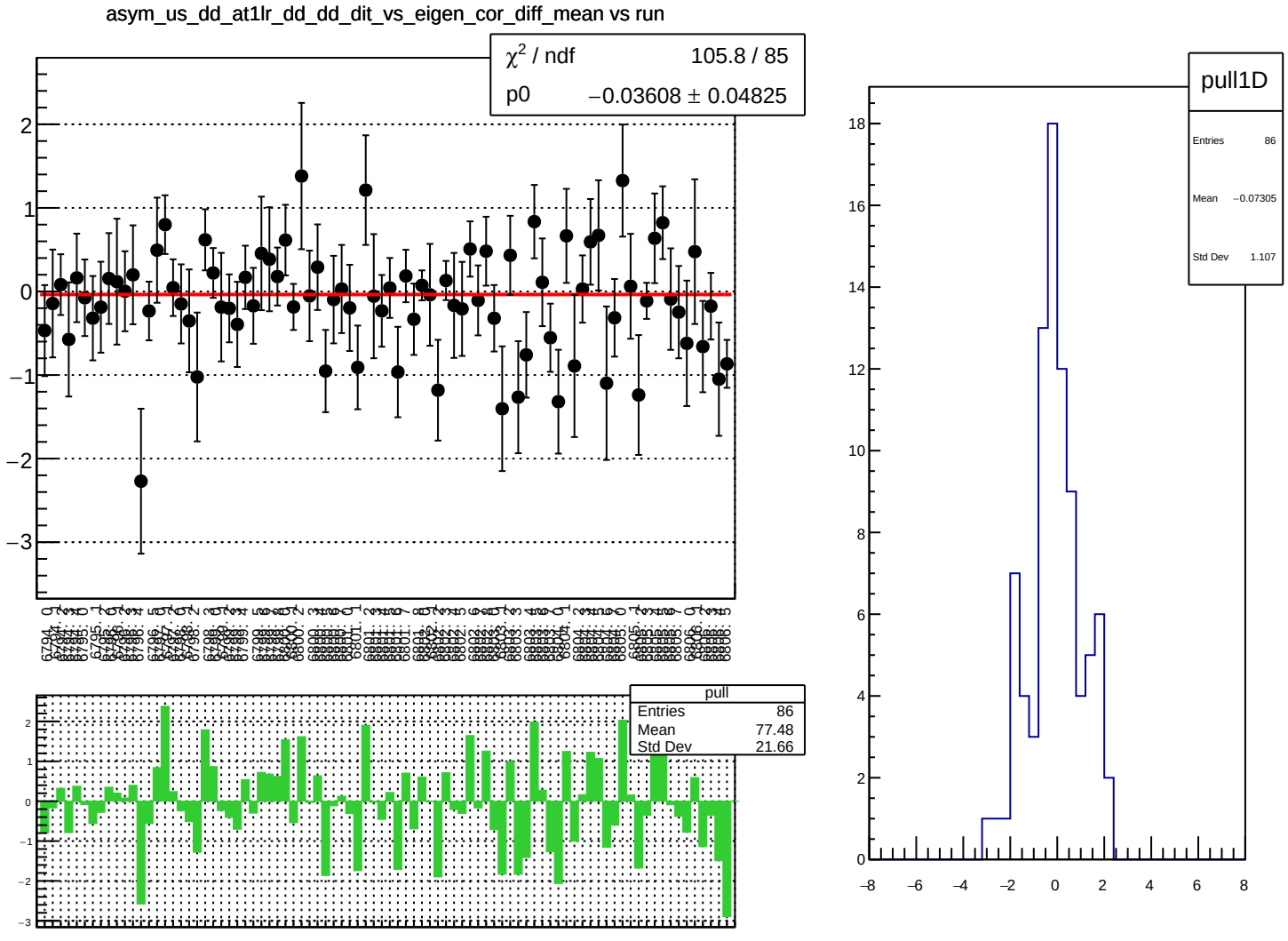

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 85
p0 5.785e−14 ± 3.255e−14
pull
Entries 86
Mean 31.51
Std Dev 9.912

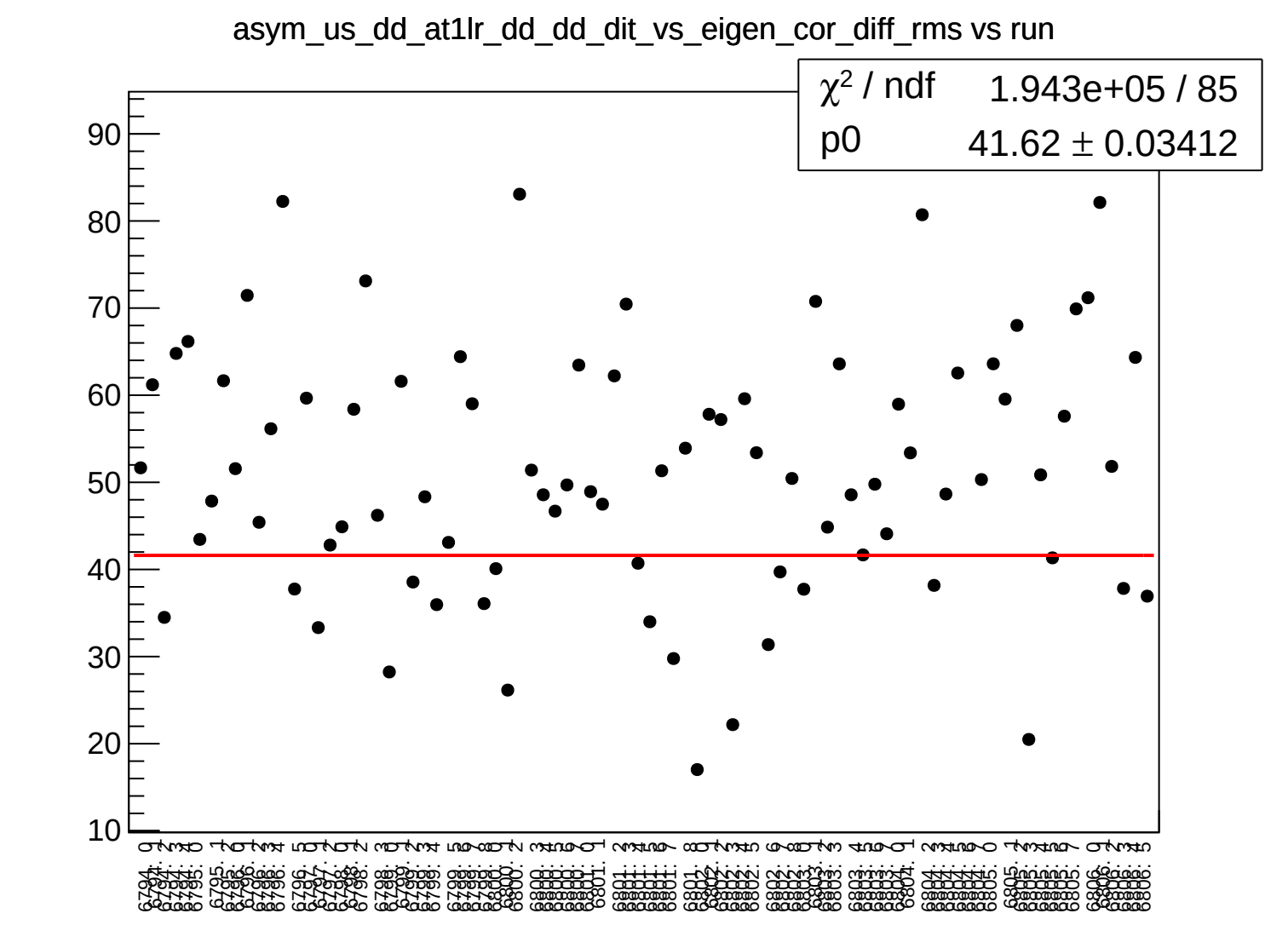

pull1D
Entries 86
Mean 0.07382
Std Dev 1.008

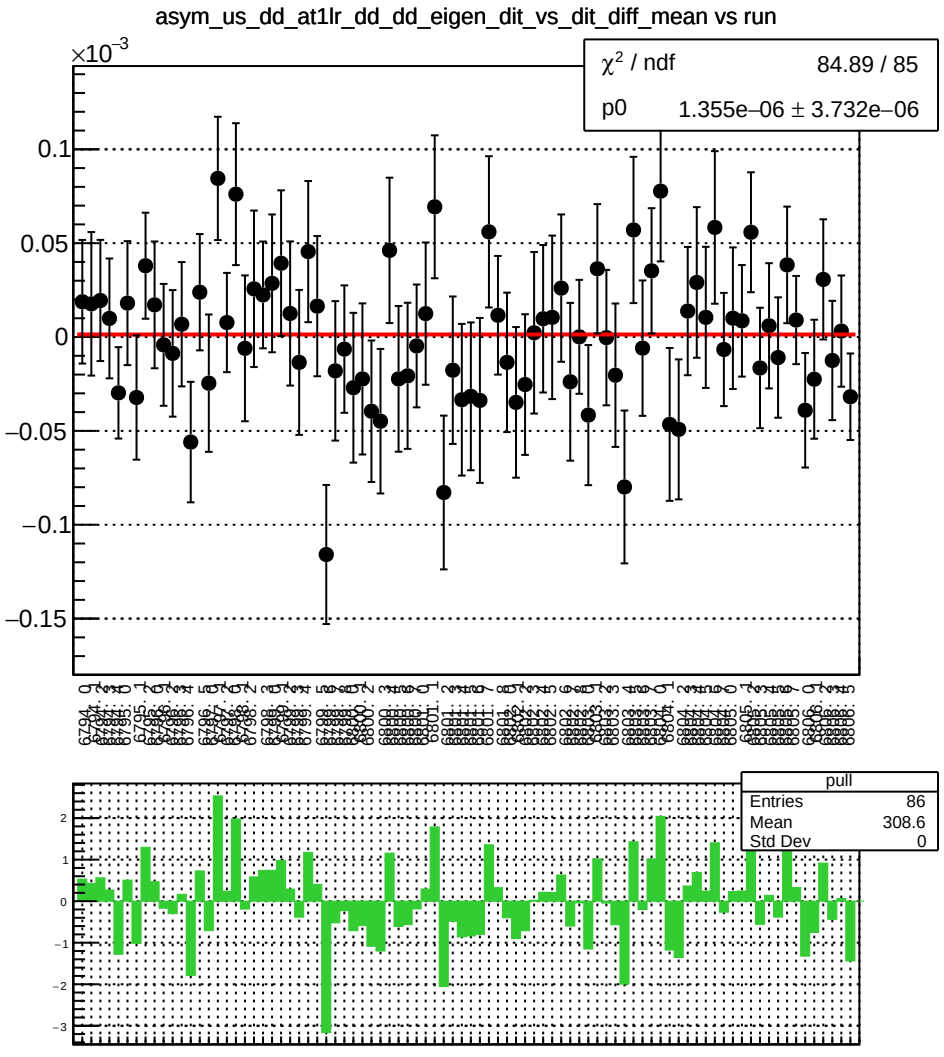

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.197e+06 / 85
p0 1.603e−11 ± 2.302e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

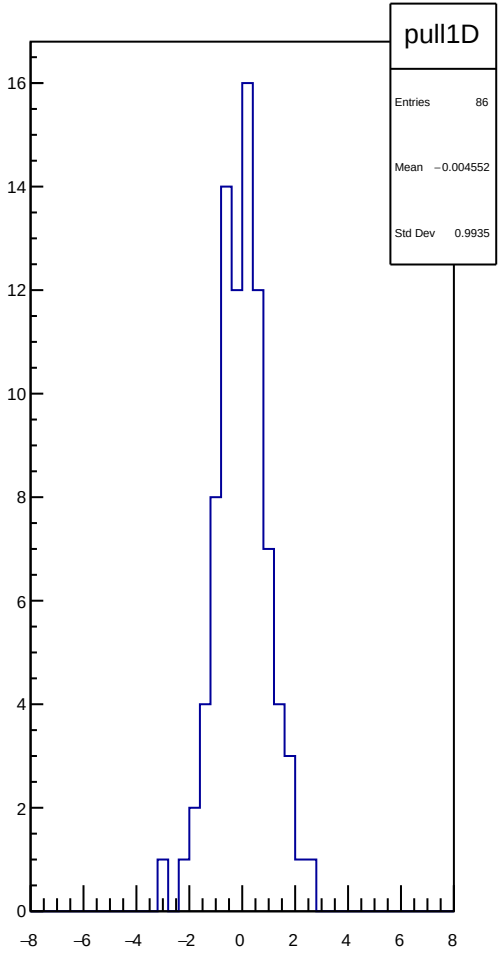

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.03608 ± 0.04825
pull
Entries 86
Mean 77.48
Std Dev 21.66
pull1D
Entries 86
Mean −0.07305
Std Dev 1.107

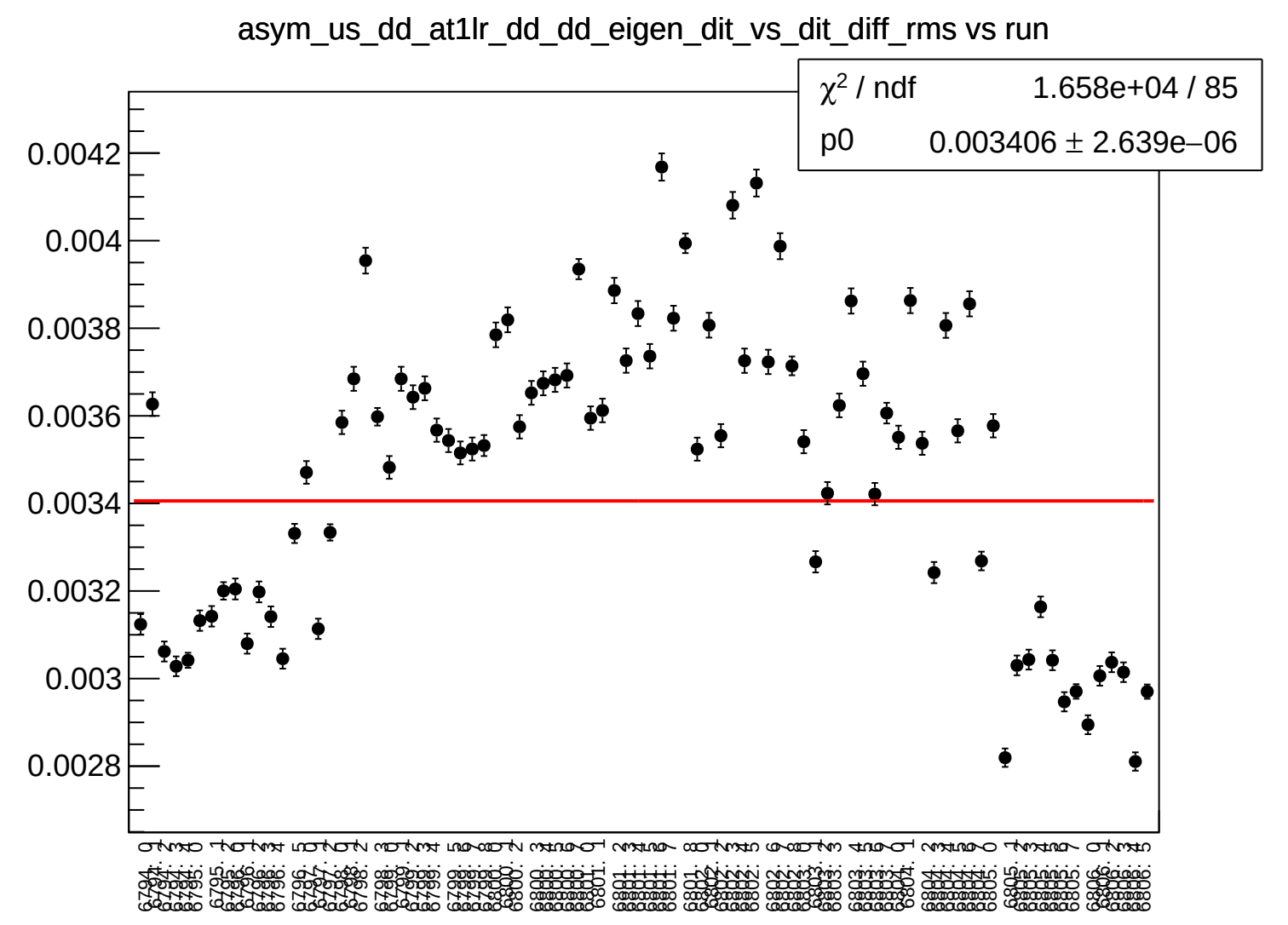

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 85
p0 41.62 ± 0.03412
90
80
70
60
50
40
30
20
10

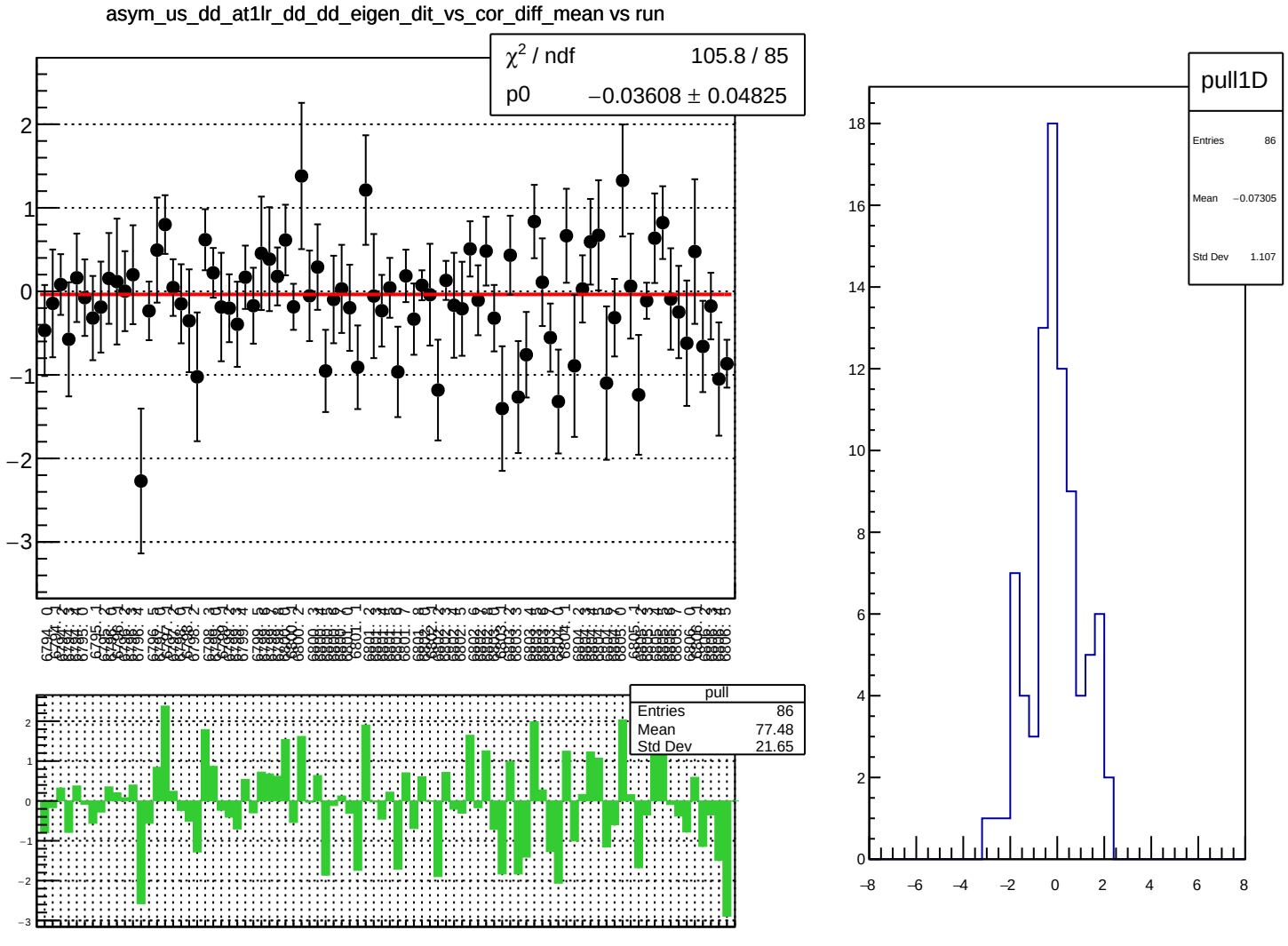

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.03608 ± 0.04825
pull
Entries 86
Mean 77.48
Std Dev 21.66
pull1D
Entries 86
Mean −0.07305
Std Dev 1.107

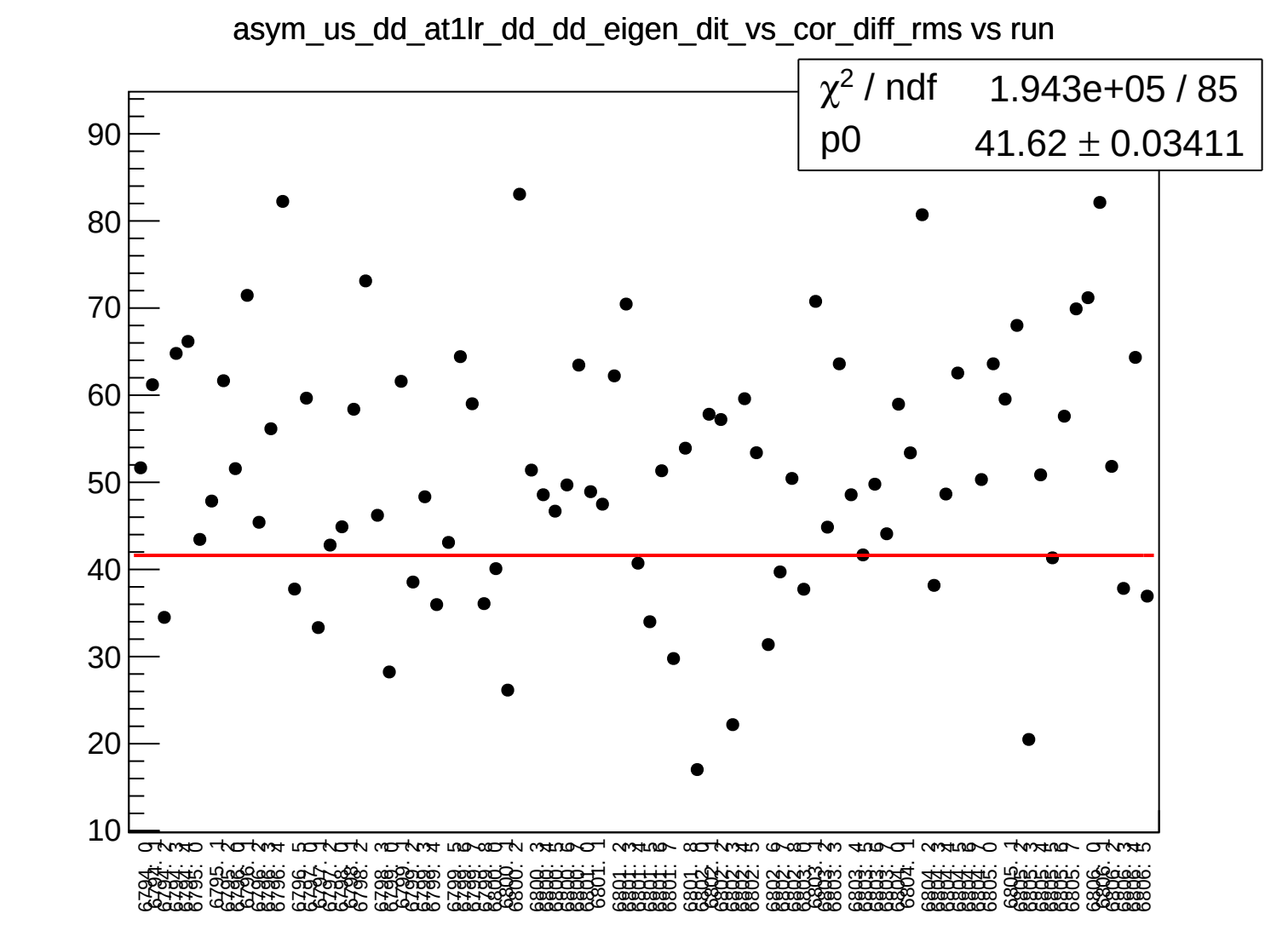

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 85
p0 41.62 ± 0.03412
90
80
70
60
50
40
30
20
10

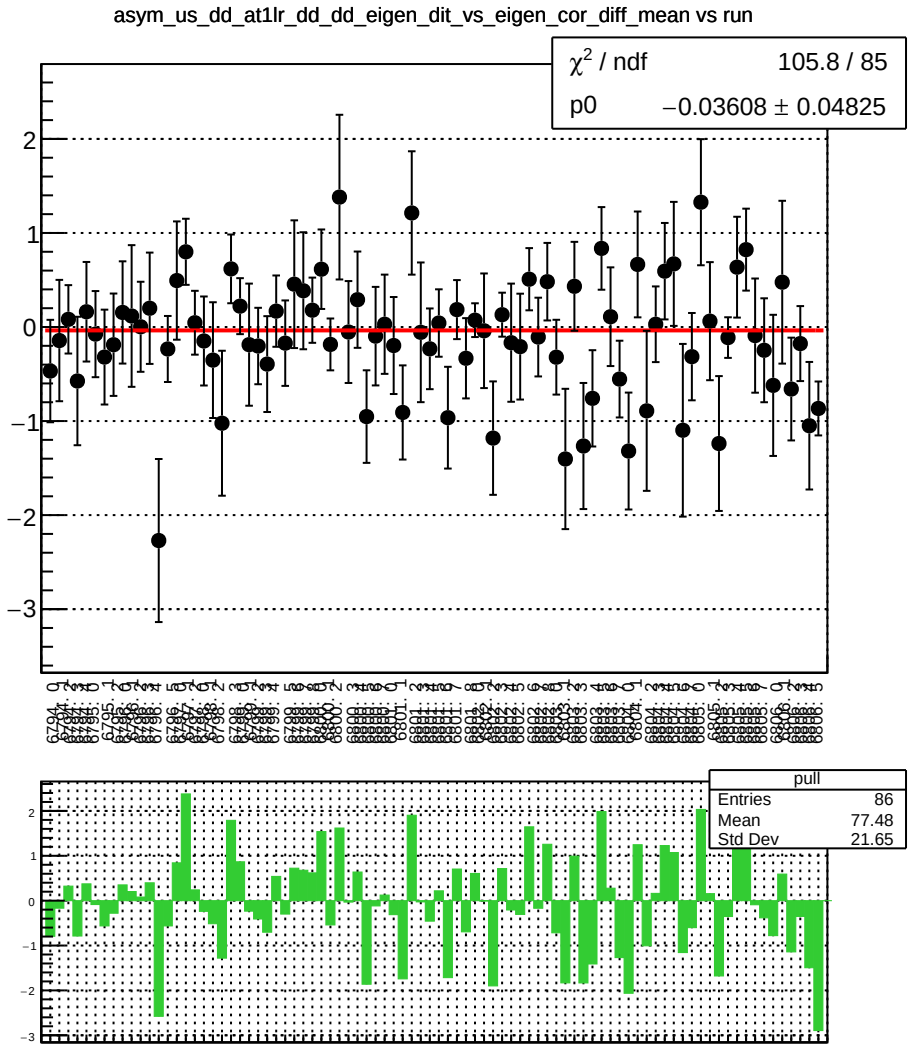

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.89 / 85
p0 1.355e−06 ± 3.732e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean 308.6
Std Dev 0
2
1
0
−1
−2
−3

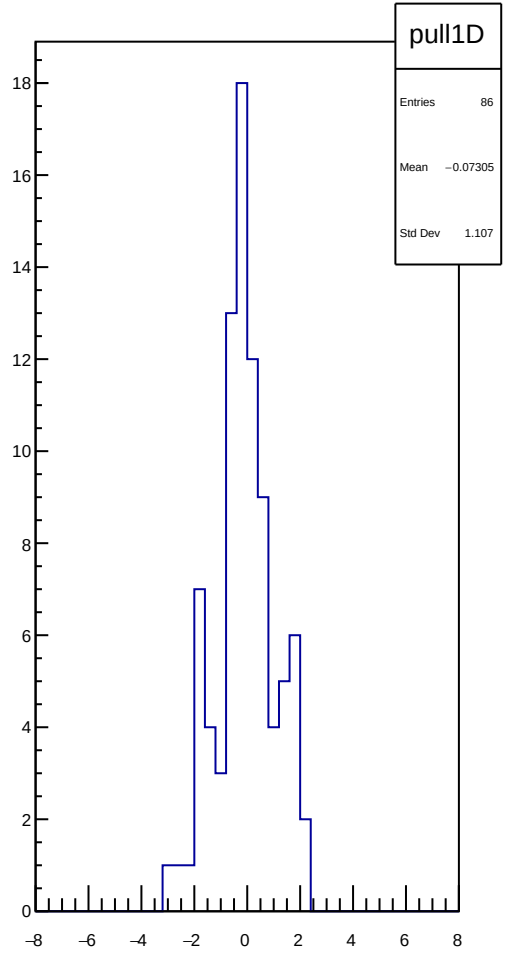

pull1D
Entries 86
Mean −0.004552
Std Dev 0.9935
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

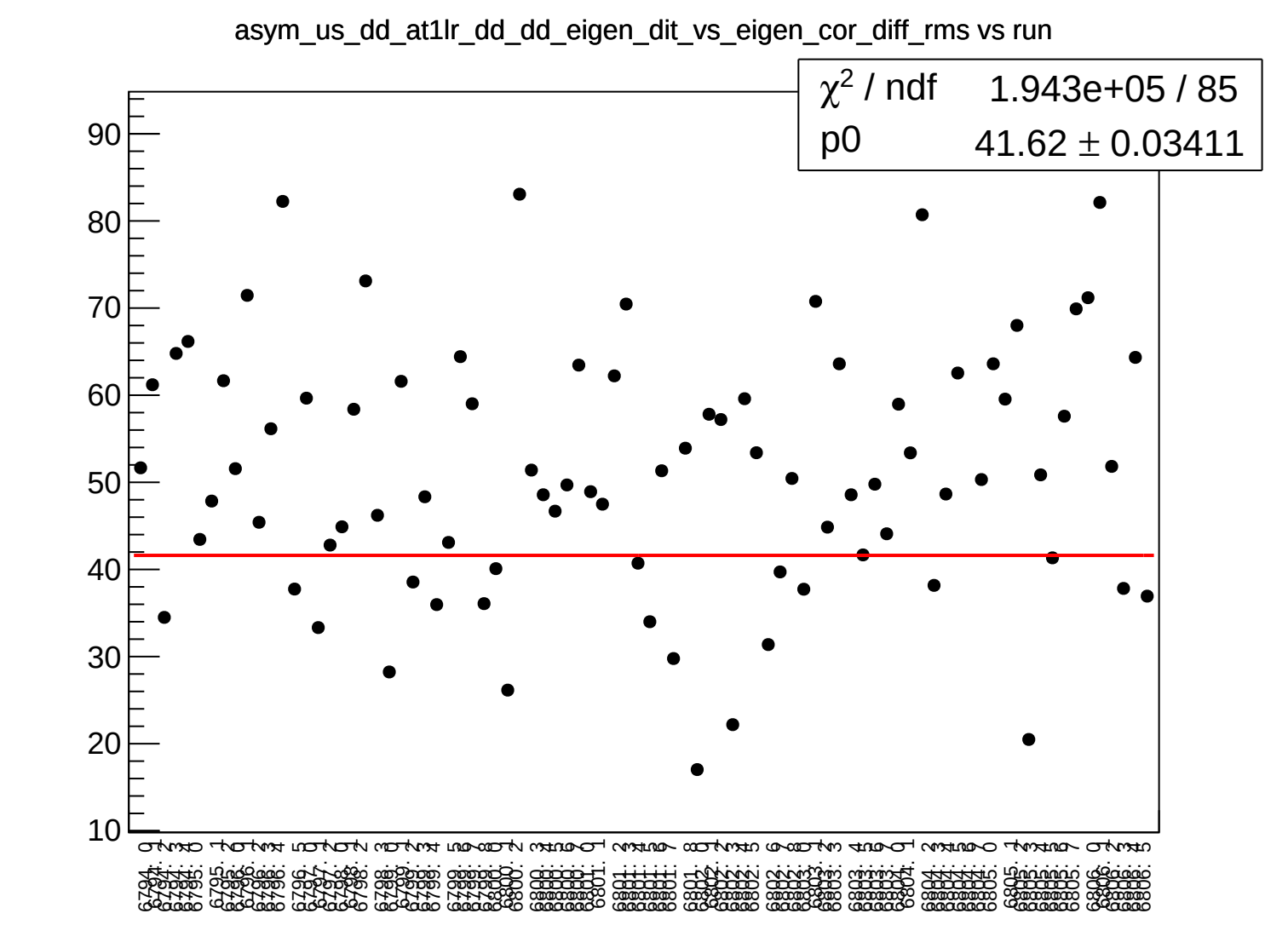

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.658e+04 / 85
p0 0.003406 ± 2.639e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

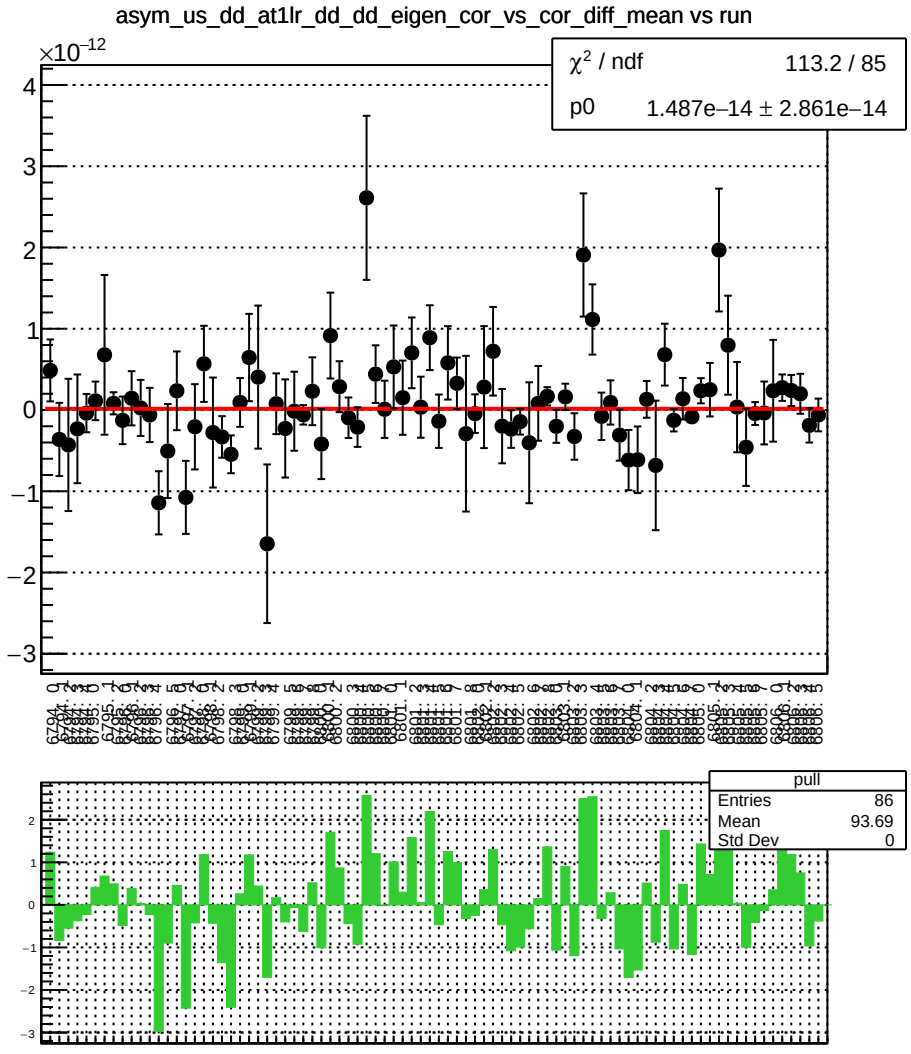

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.03608 ± 0.04825
pull
Entries 86
Mean 77.48
Std Dev 21.65
pull1D
Entries 86
Mean −0.07305
Std Dev 1.107

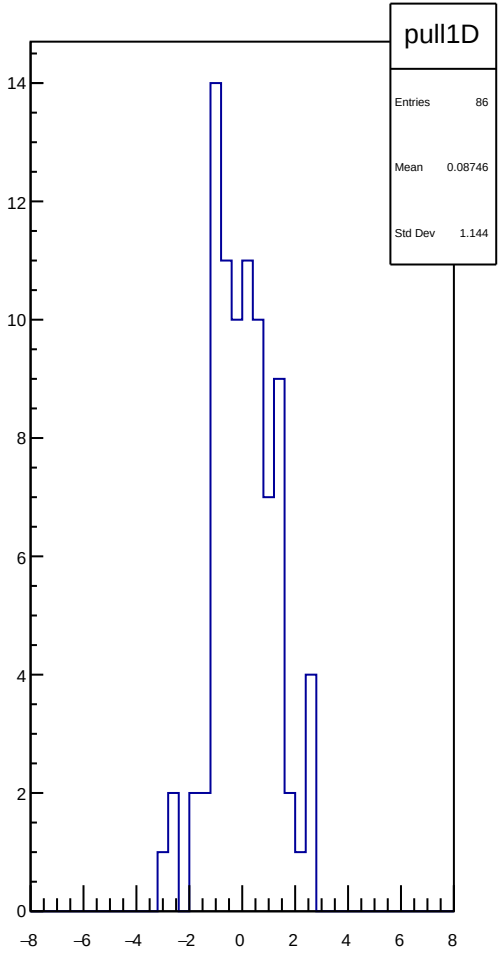

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 85
p0 41.62 ± 0.03411
90
80
70
60
50
40
30
20
10

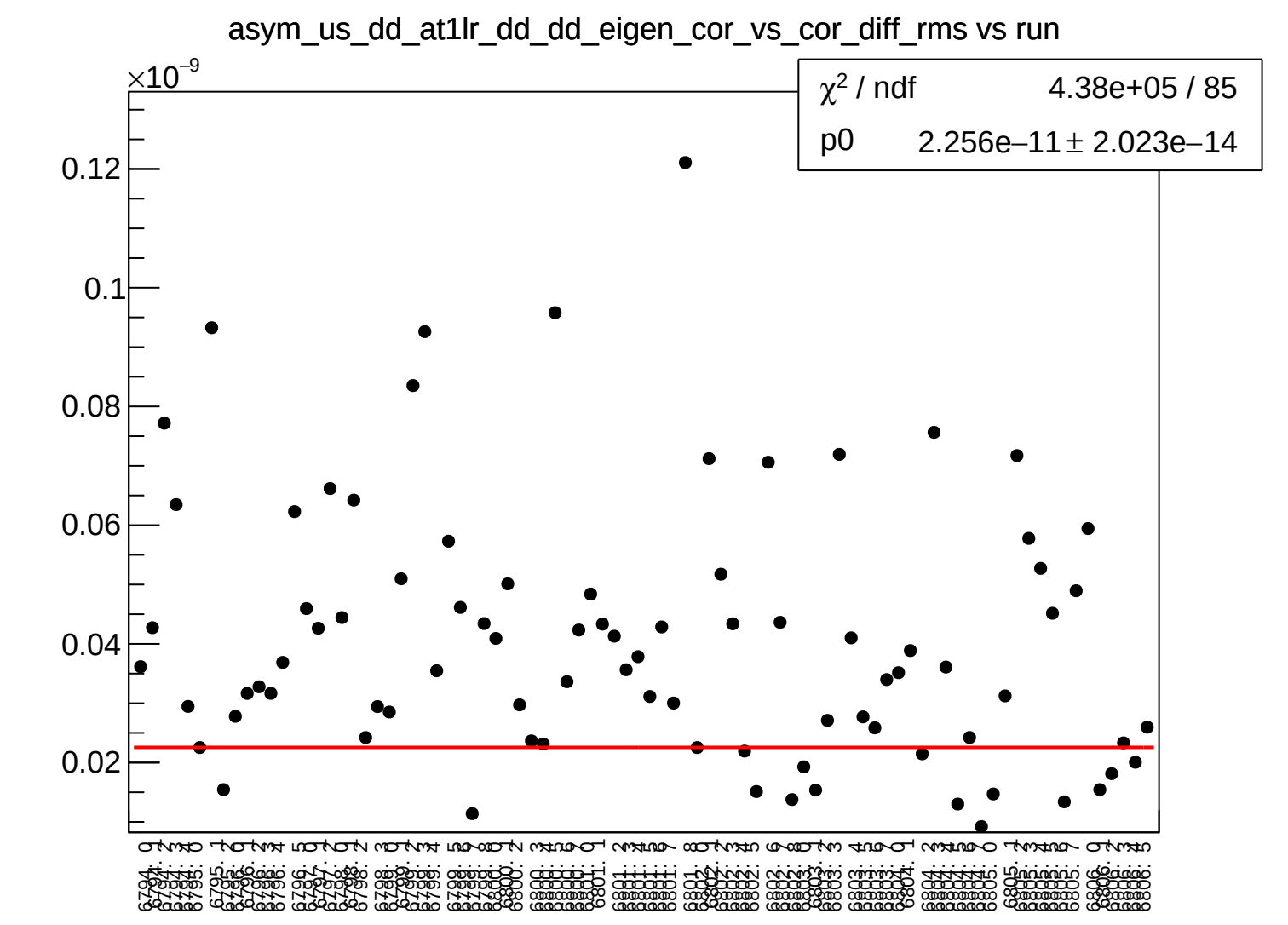

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 85
p0 −0.03608 ± 0.04825
pull
Entries 86
Mean 77.48
Std Dev 21.65

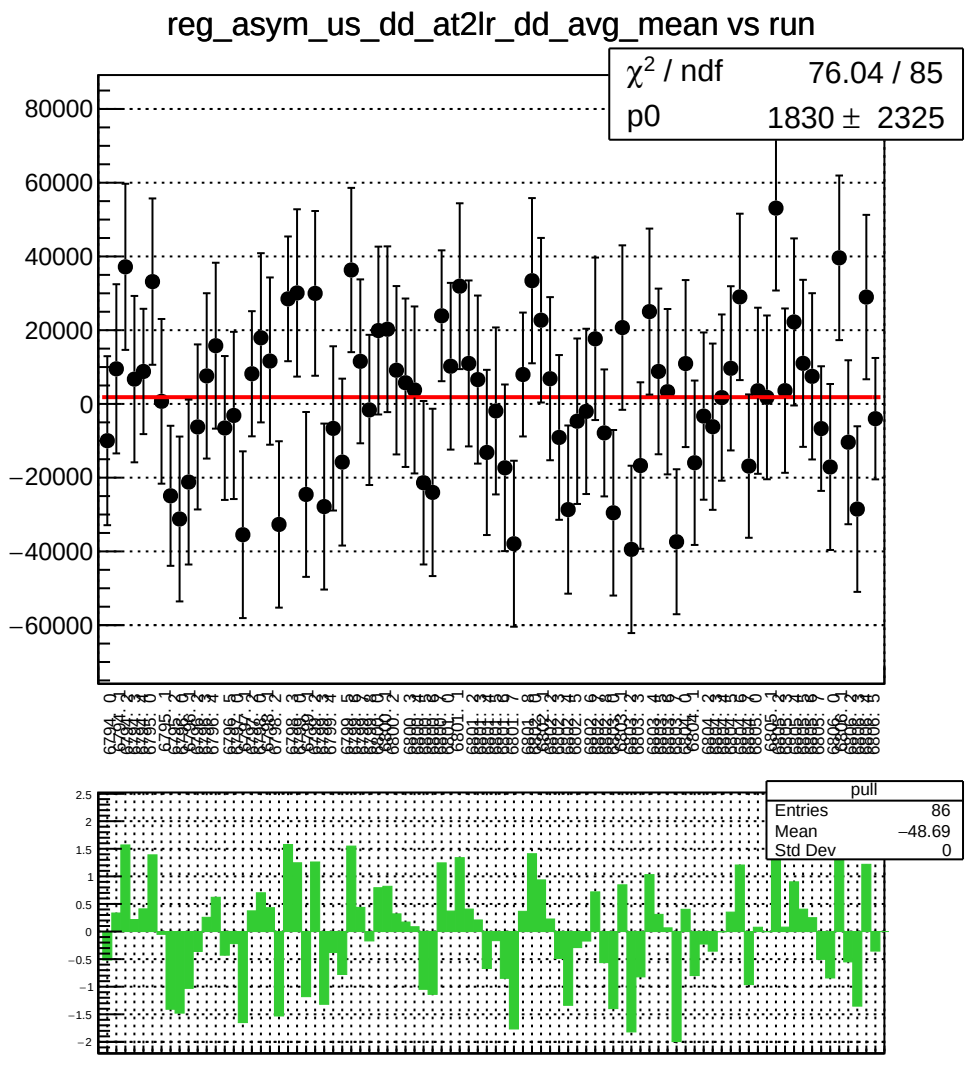

pull1D
Entries 86
Mean −0.07305
Std Dev 1.107

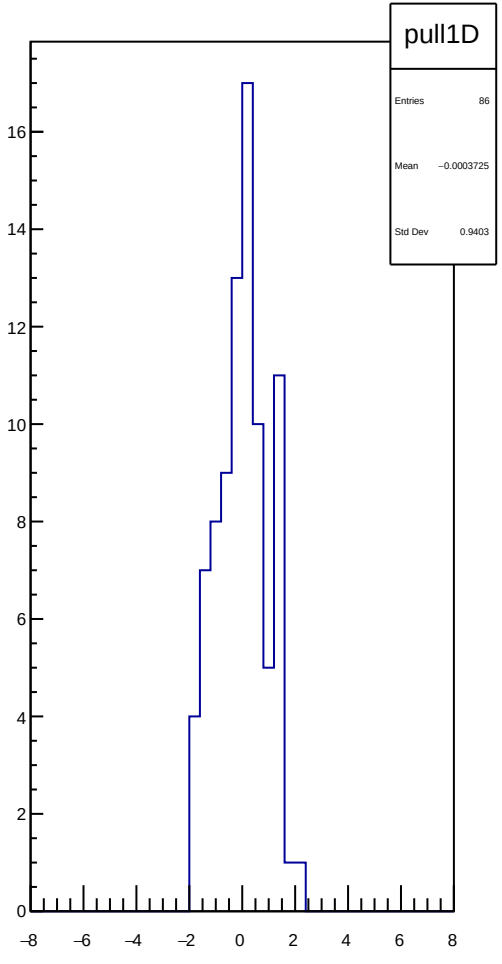

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.943e+05 / 85
p0 41.62 ± 0.03411
90
80
70
60
50
40
30
20
10

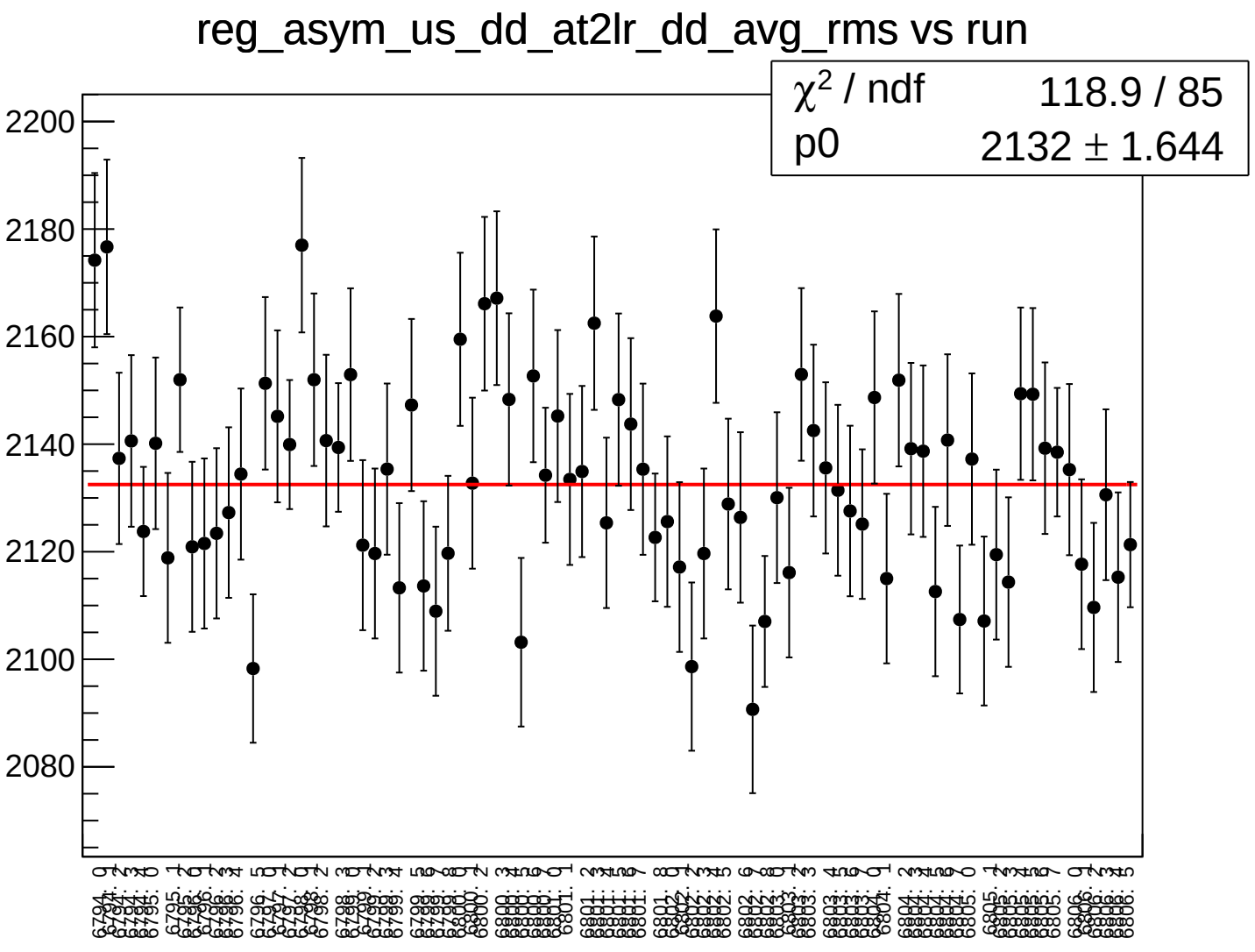

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.2 / 85
p0 1.487e−14 ± 2.861e−14
pull
Entries 86
Mean 93.69
Std Dev 0

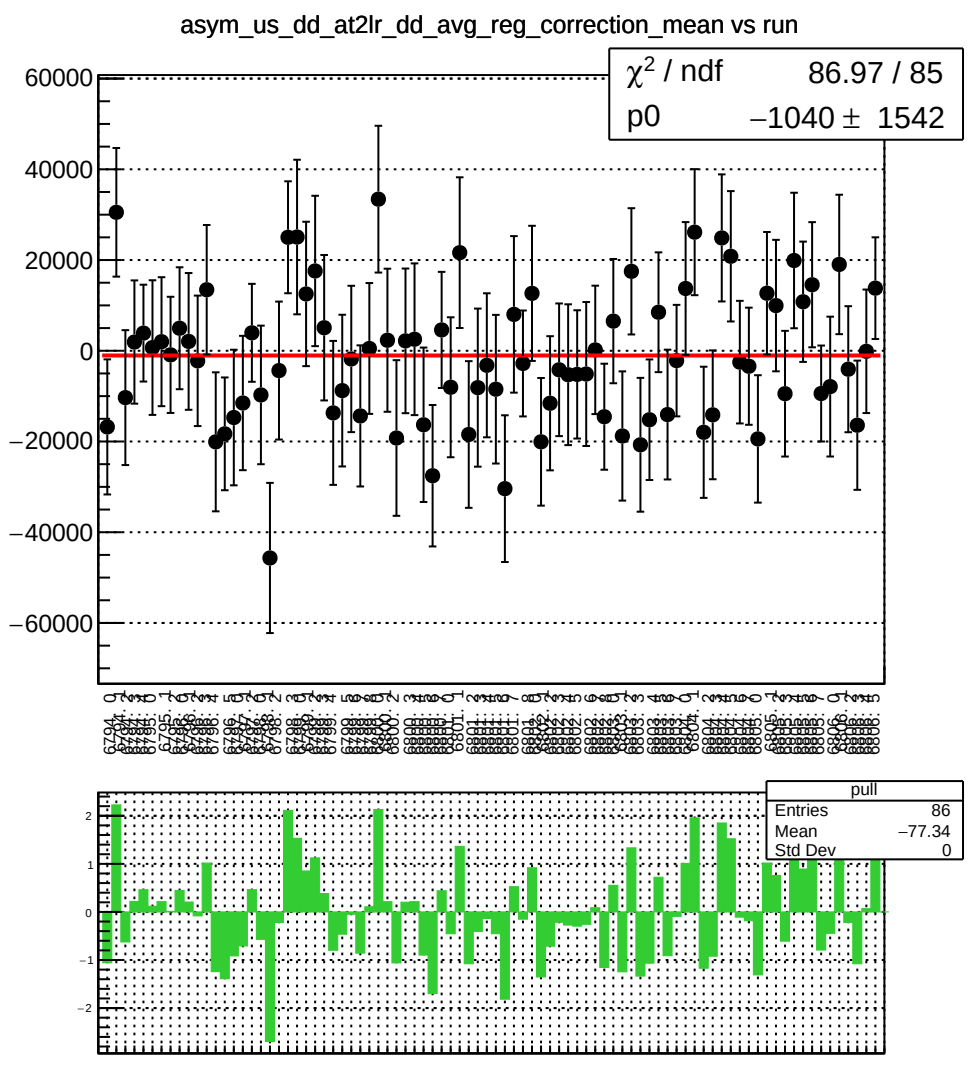

pull1D
Entries 86
Mean 0.08746
Std Dev 1.144

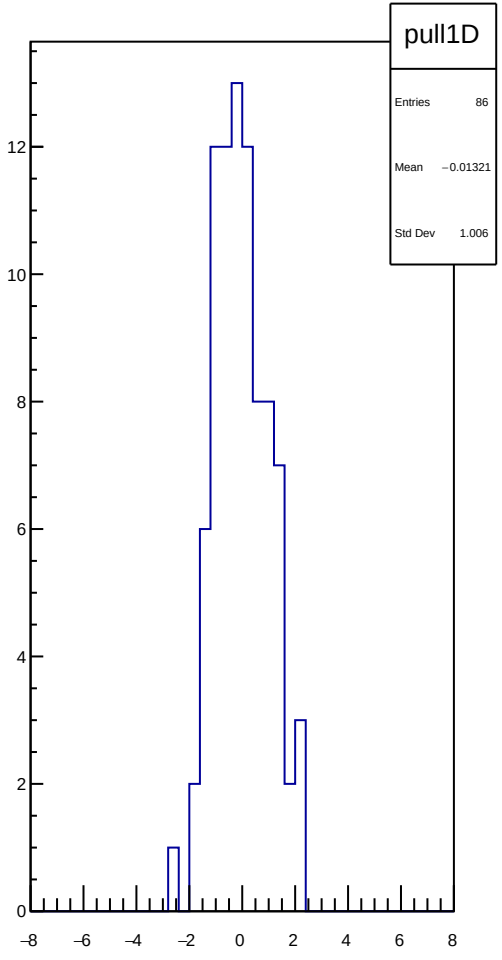

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.38e+05 / 85
p0 2.256e−11 ± 2.023e−14
0.12
0.1
0.08
0.06
0.04
0.02

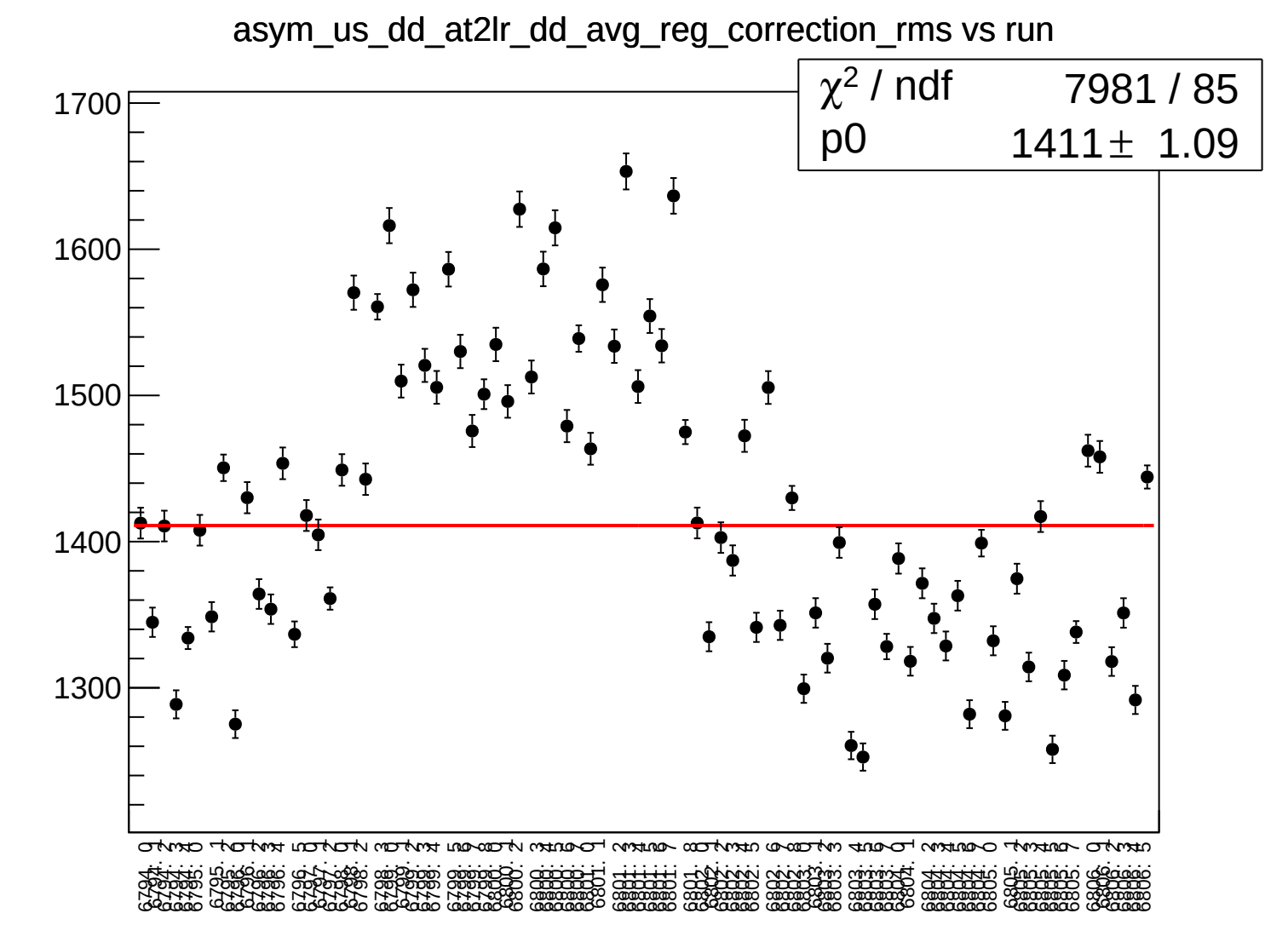

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 76.04 / 85
p0 1830 ± 2325
pull
Entries 86
Mean −48.69
Std Dev 0

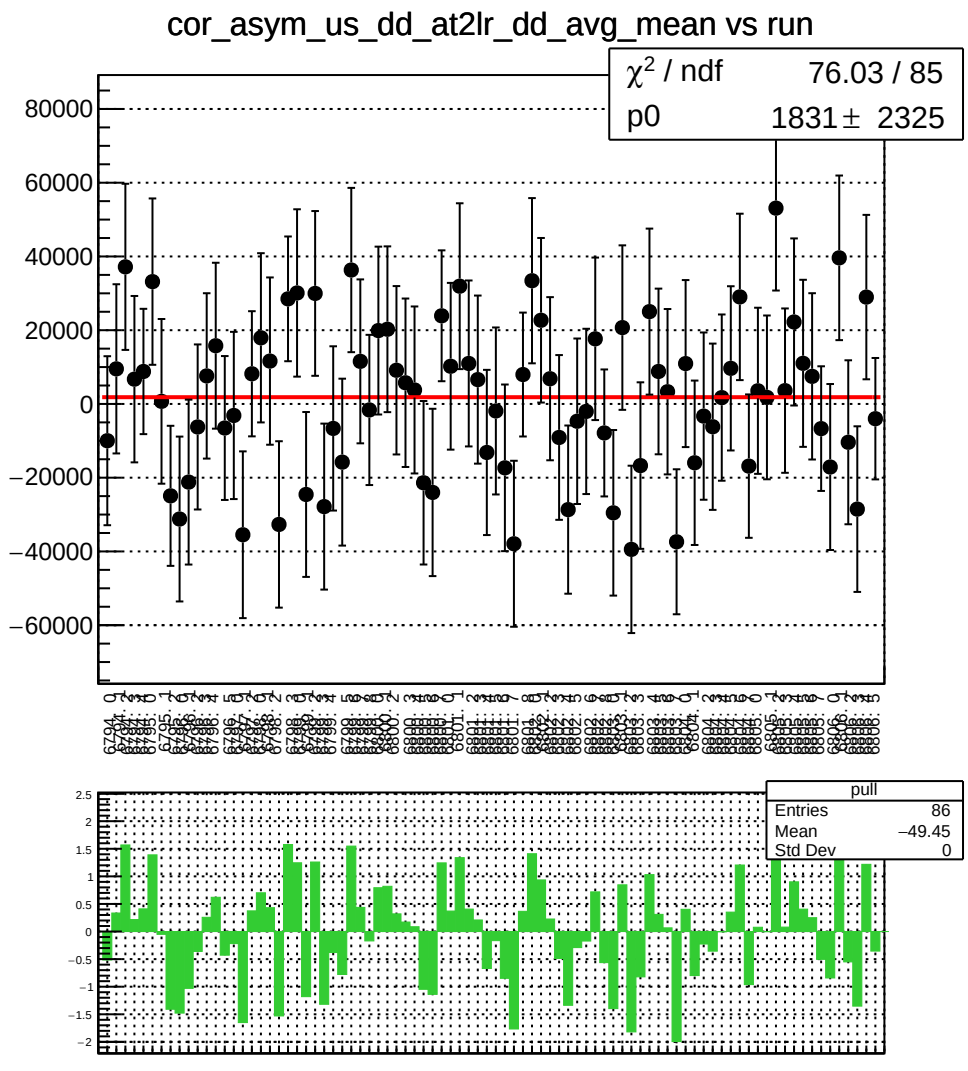

pull1D
Entries 86
Mean −0.0003725
Std Dev 0.9403

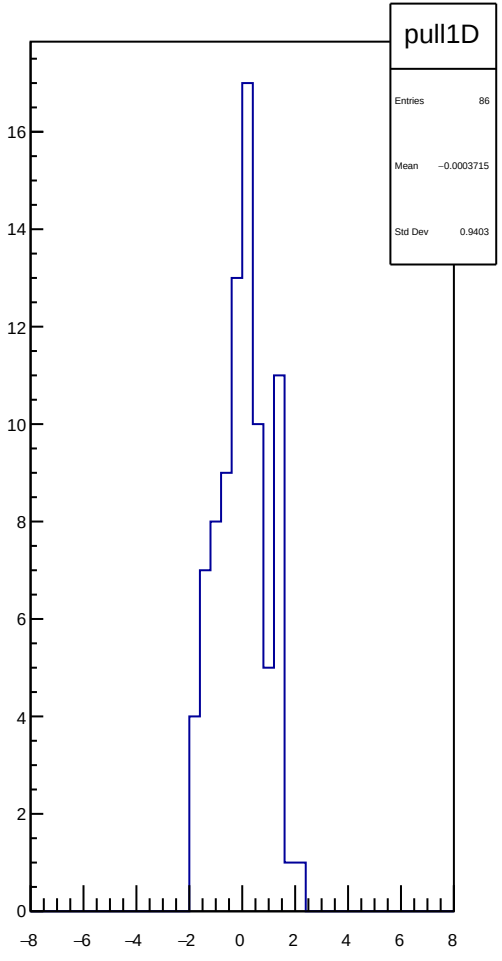

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 118.9 / 85
p0 2132 ± 1.644
2200
2180
2160
2140
2120
2100
2080

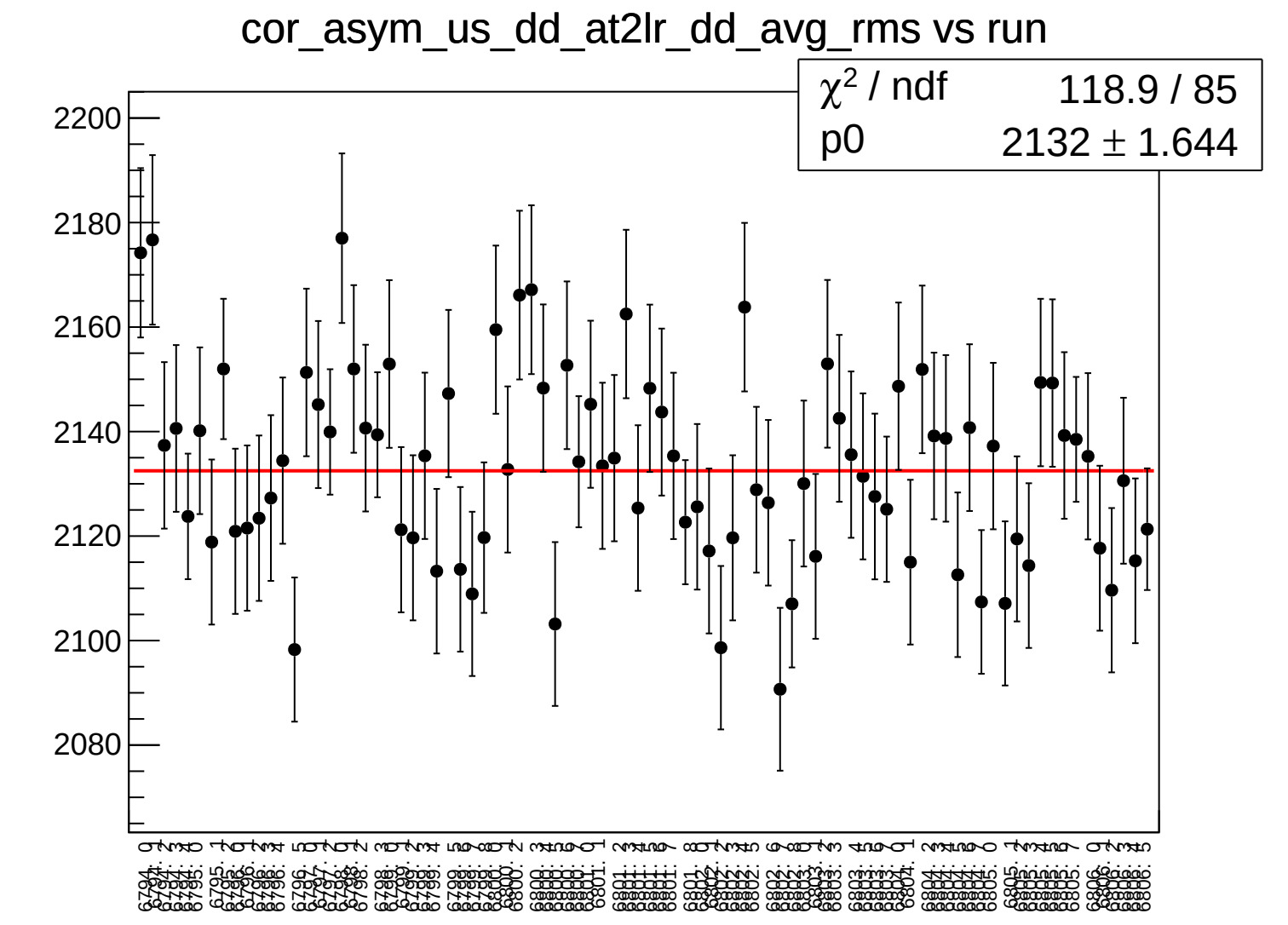

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 86.97 / 85
p0 −1040 ± 1542
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −77.34
Std Dev 0
2
1
0
−1
−2

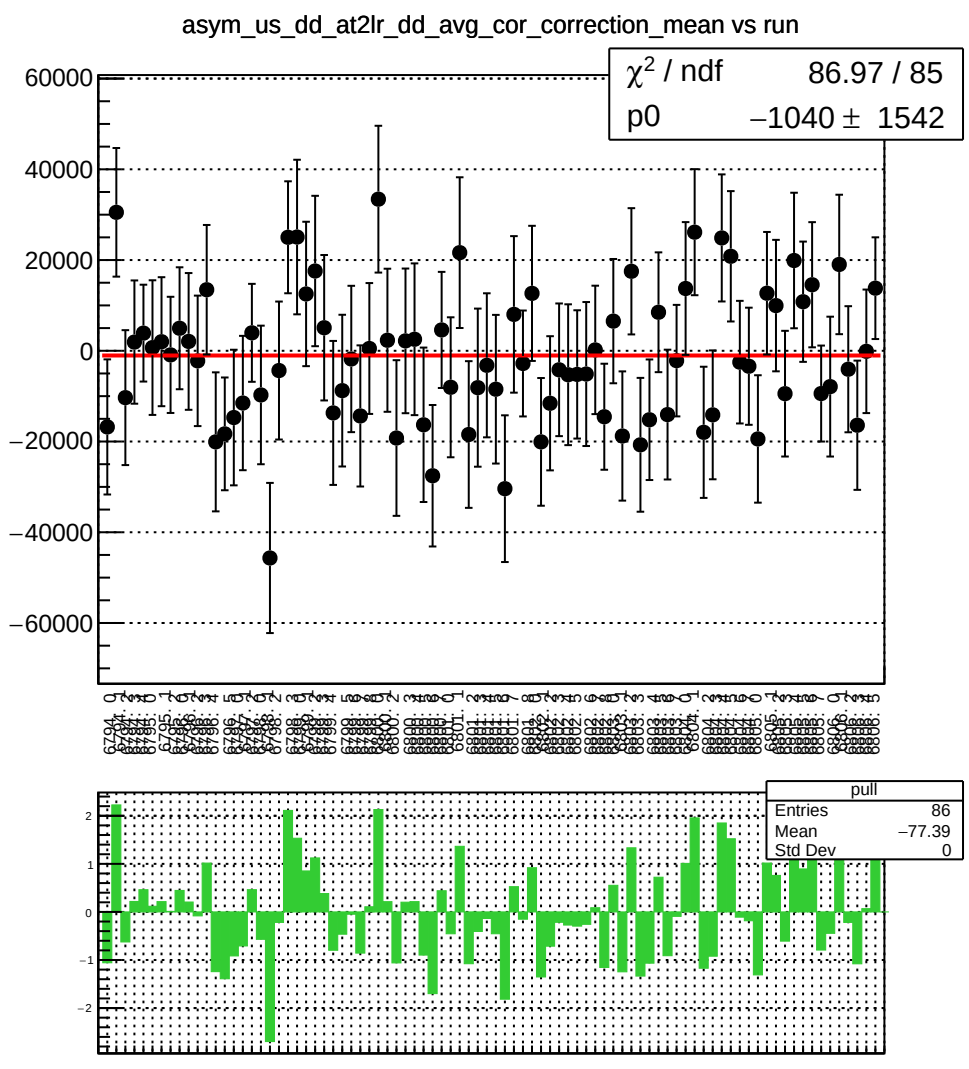

pull1D
Entries 86
Mean −0.01321
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

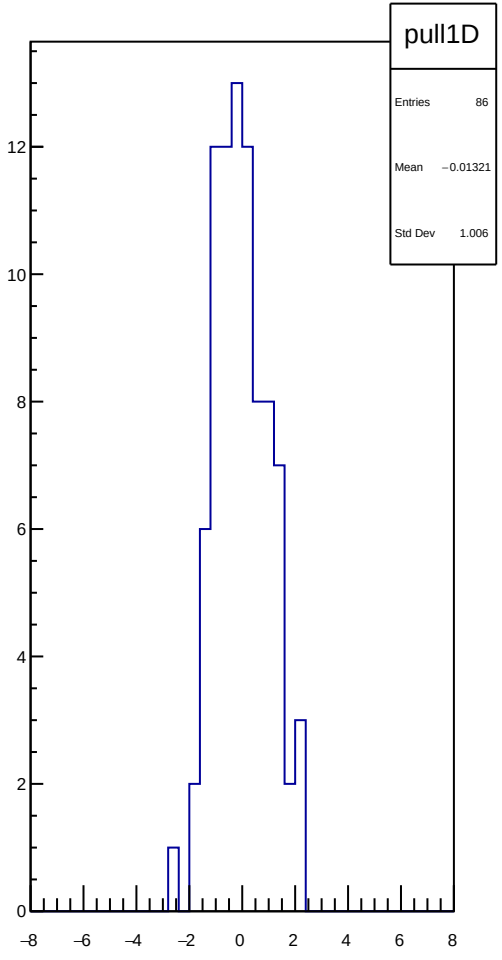

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7981 / 85
p0 1411 ± 1.09
1700
1600
1500
1400
1300

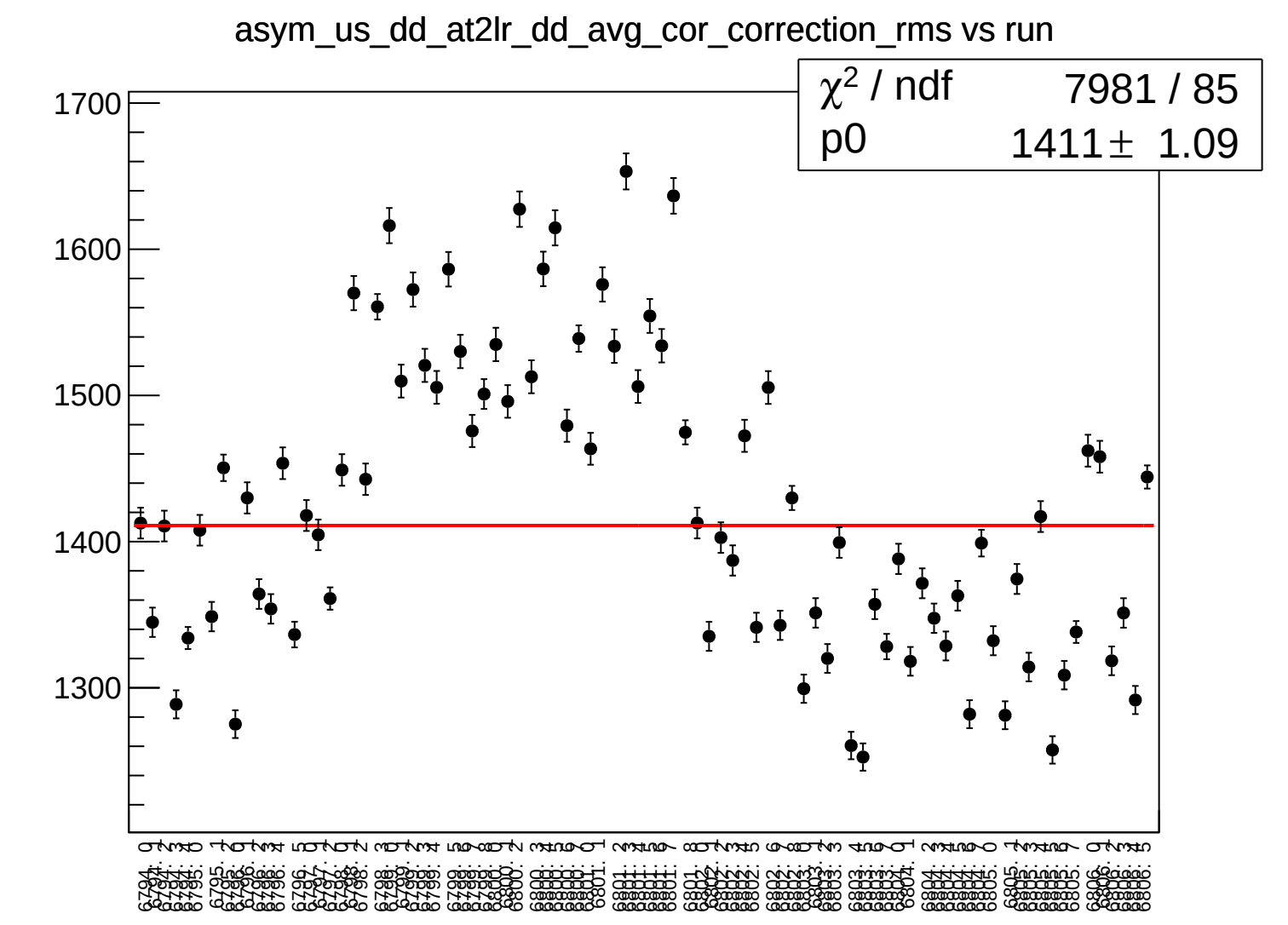

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 76.03 / 85
p0 1831 ± 2325
pull
Entries 86
Mean −49.45
Std Dev 0

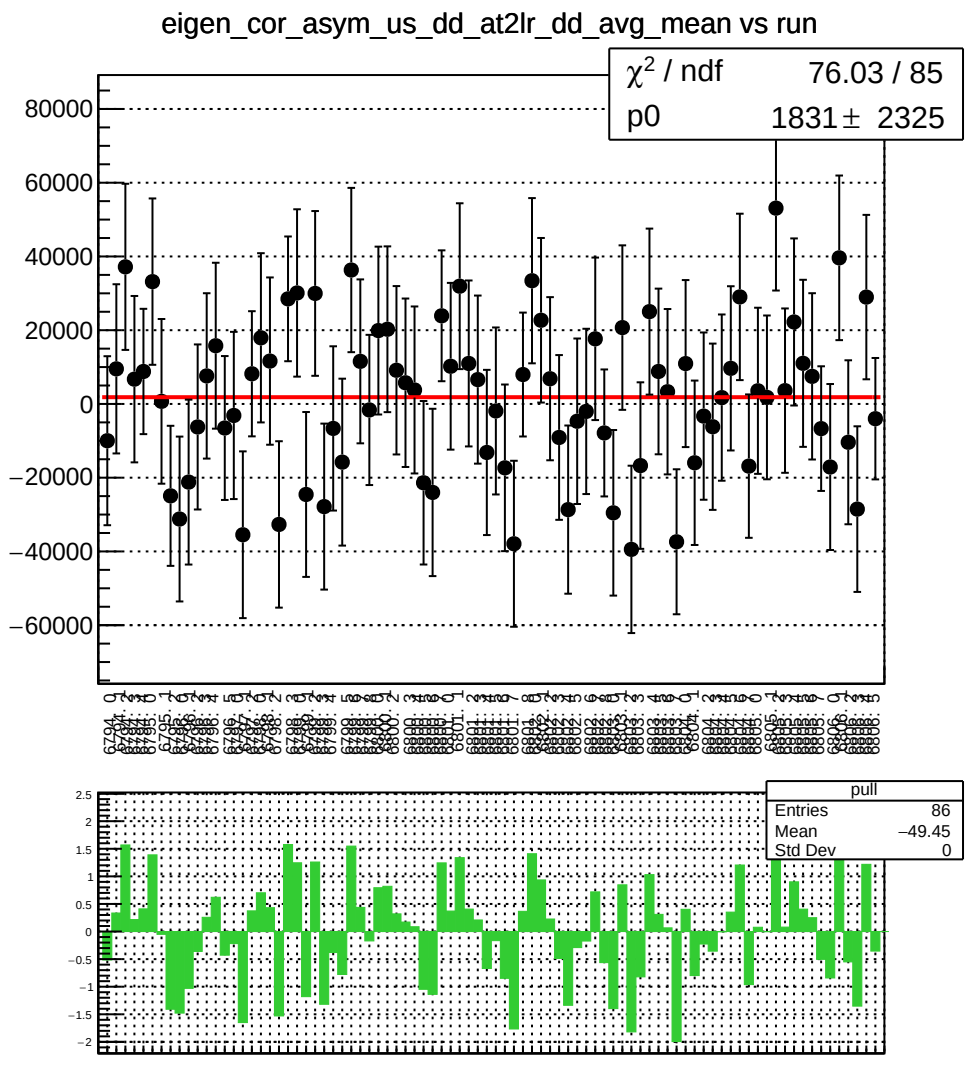

pull1D
Entries 86
Mean −0.0003715
Std Dev 0.9403

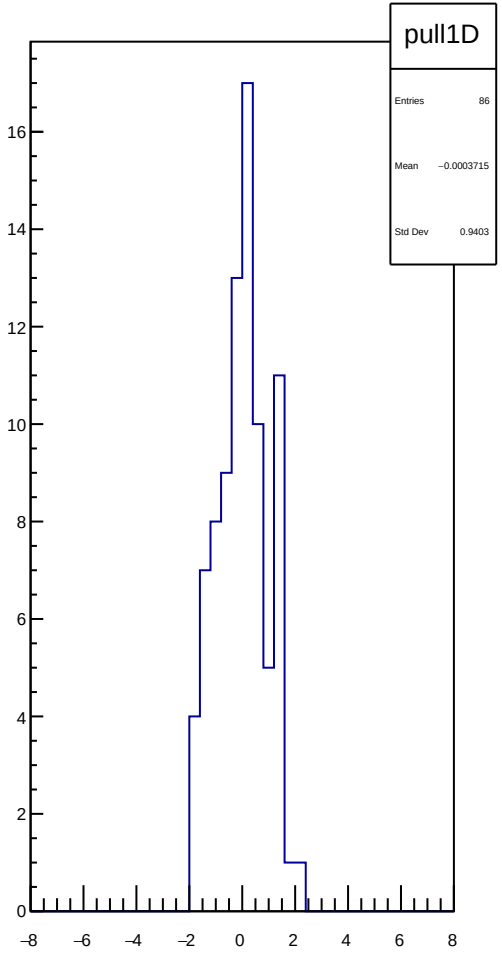

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 118.9 / 85
p0 2132 ± 1.644
2200
2180
2160
2140
2120
2100
2080

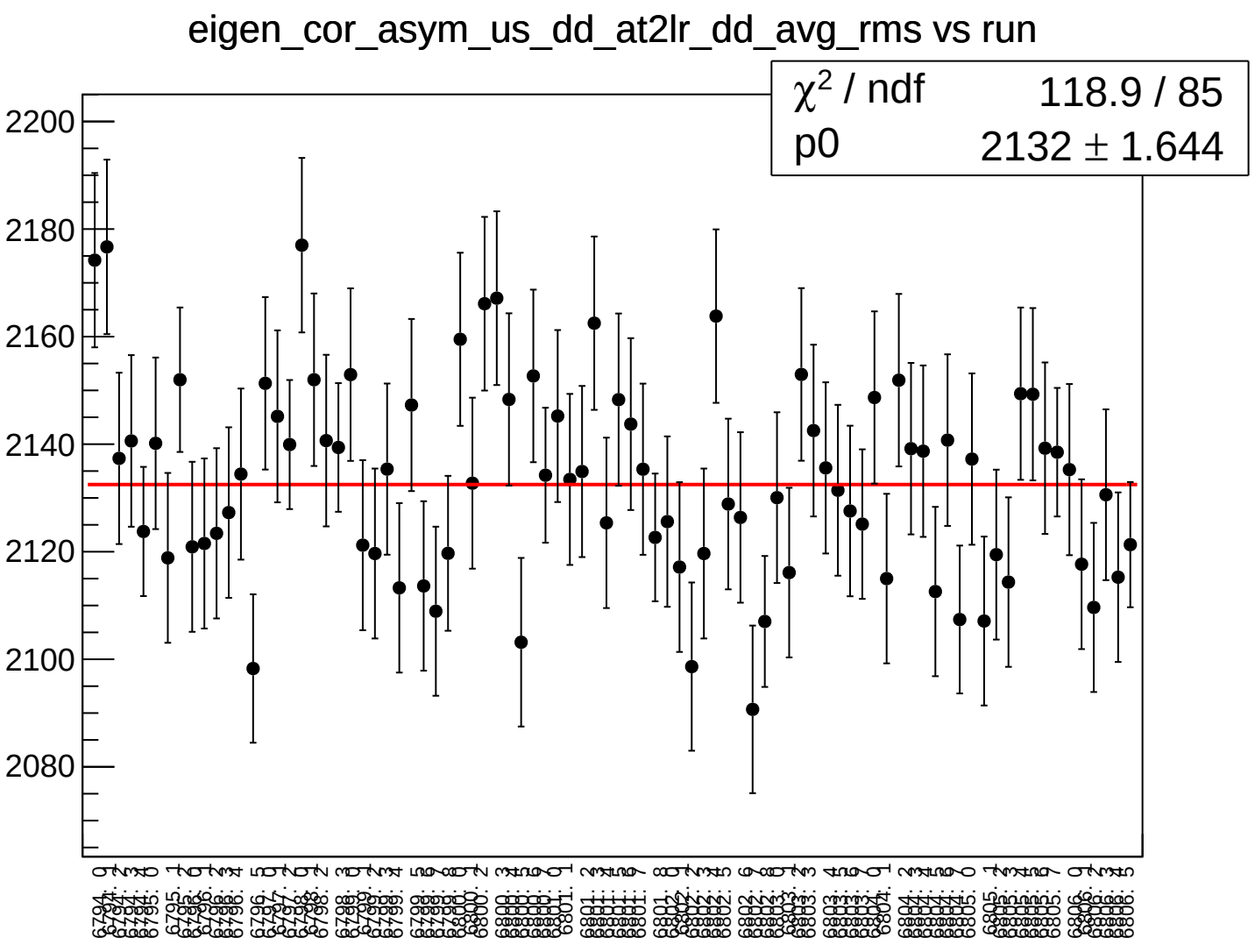

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 86.97 / 85
p0 −1040 ± 1542
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −77.39
Std Dev 0
2
1
0
−1
−2

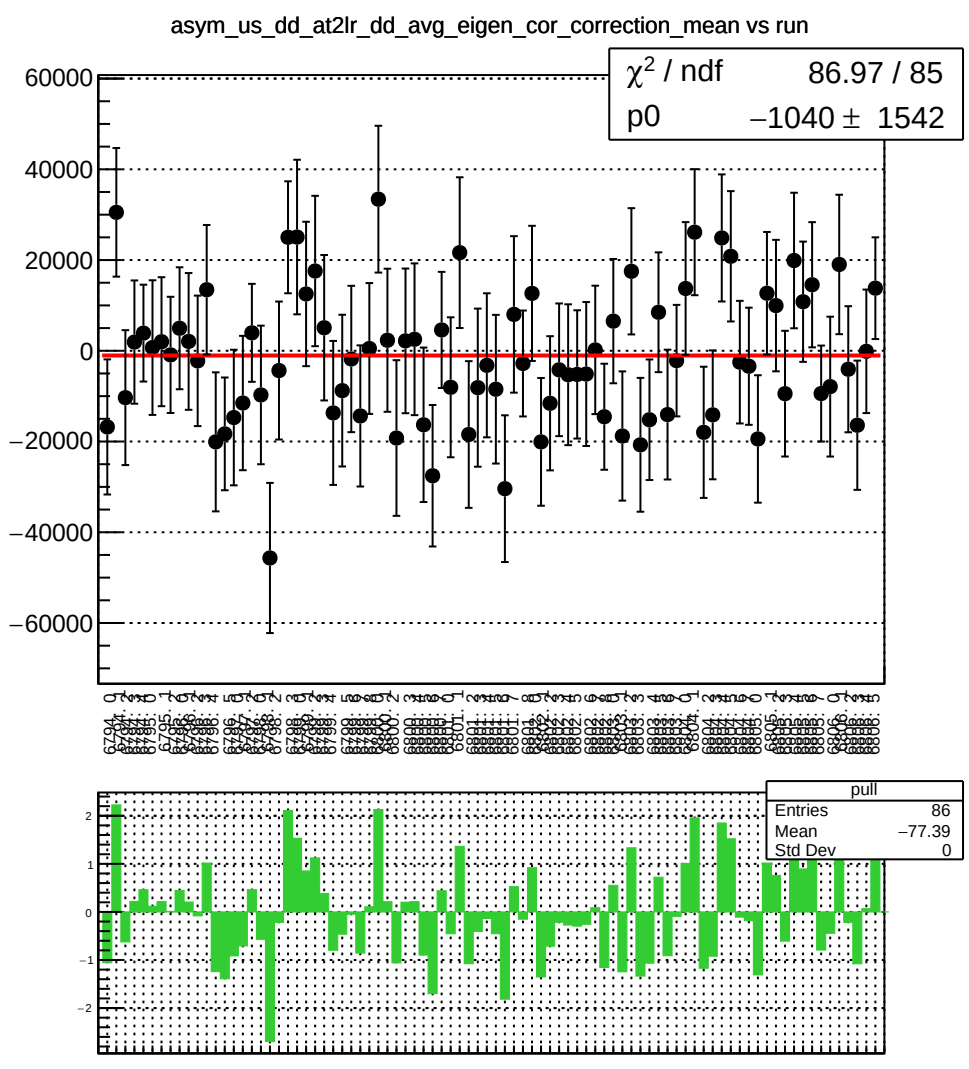

pull1D
Entries 86
Mean −0.01321
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

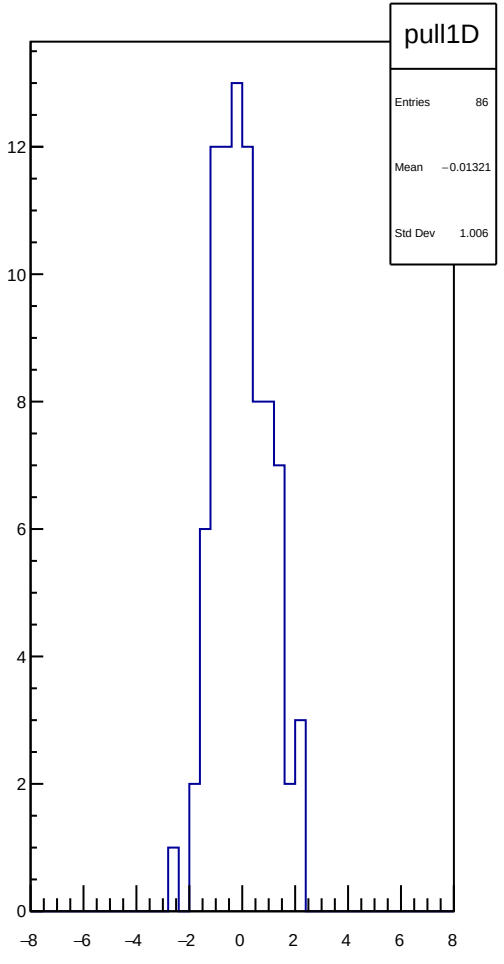

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7981 / 85
p0 1411 ± 1.09
1700
1600
1500
1400
1300

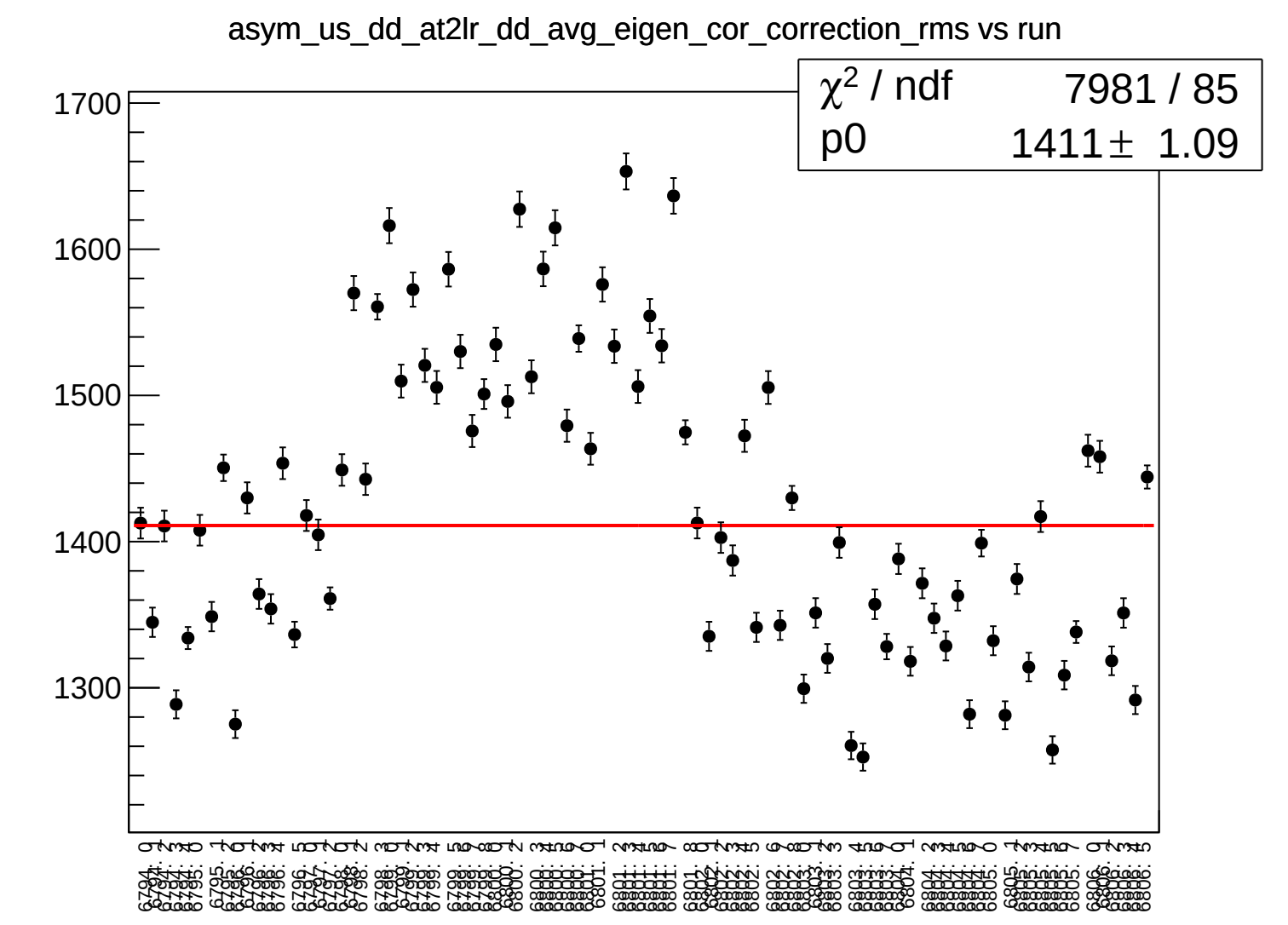

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 76.03 / 85
p0 1831 ± 2325
pull
Entries 86
Mean −49.45
Std Dev 0

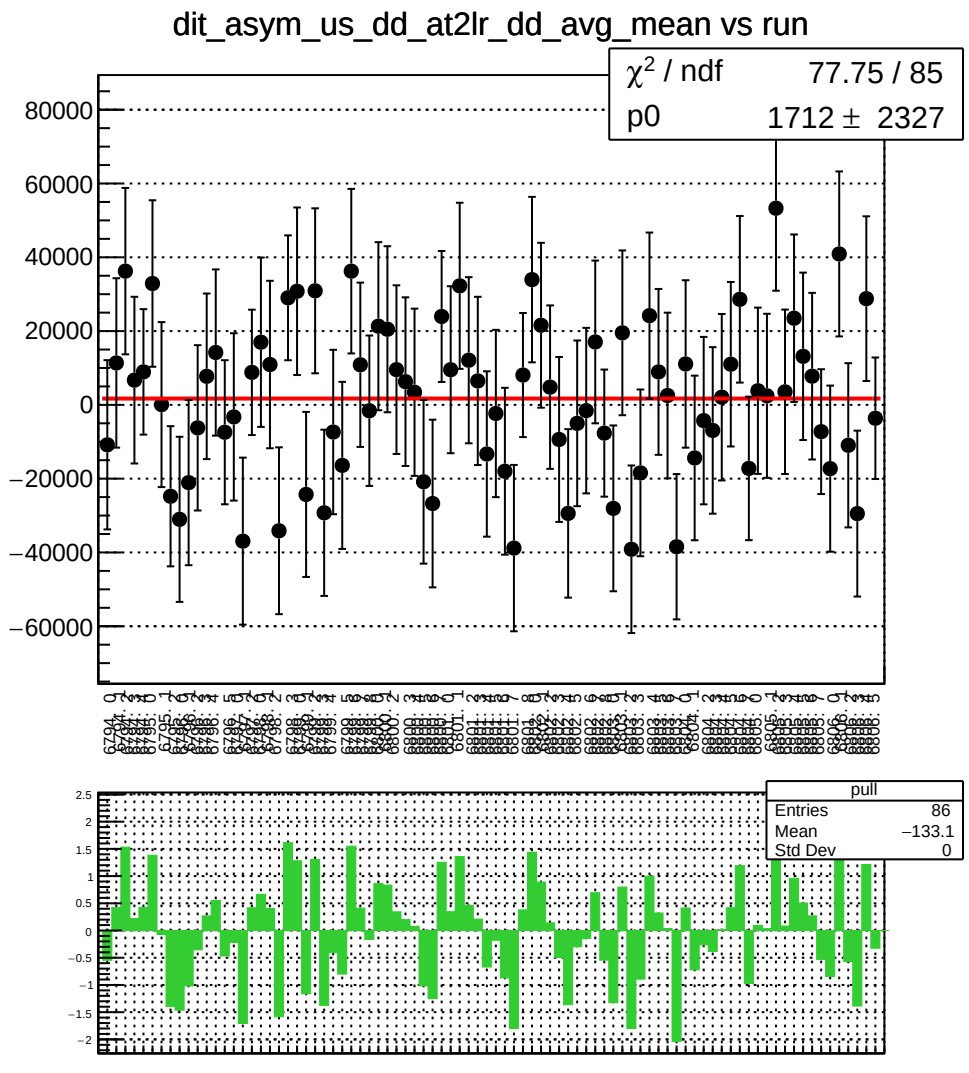

pull1D
Entries 86
Mean −0.0003715
Std Dev 0.9403

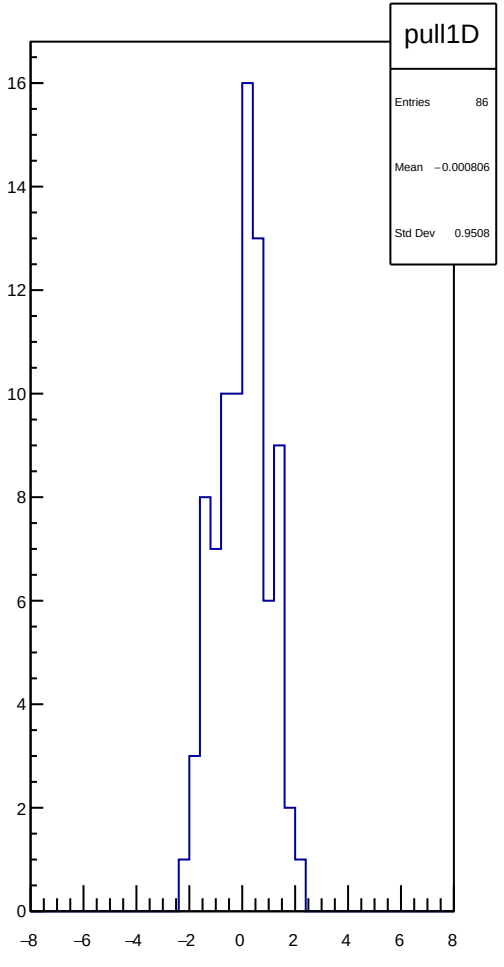

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 118.9 / 85
p0 2132 ± 1.644
2200
2180
2160
2140
2120
2100
2080

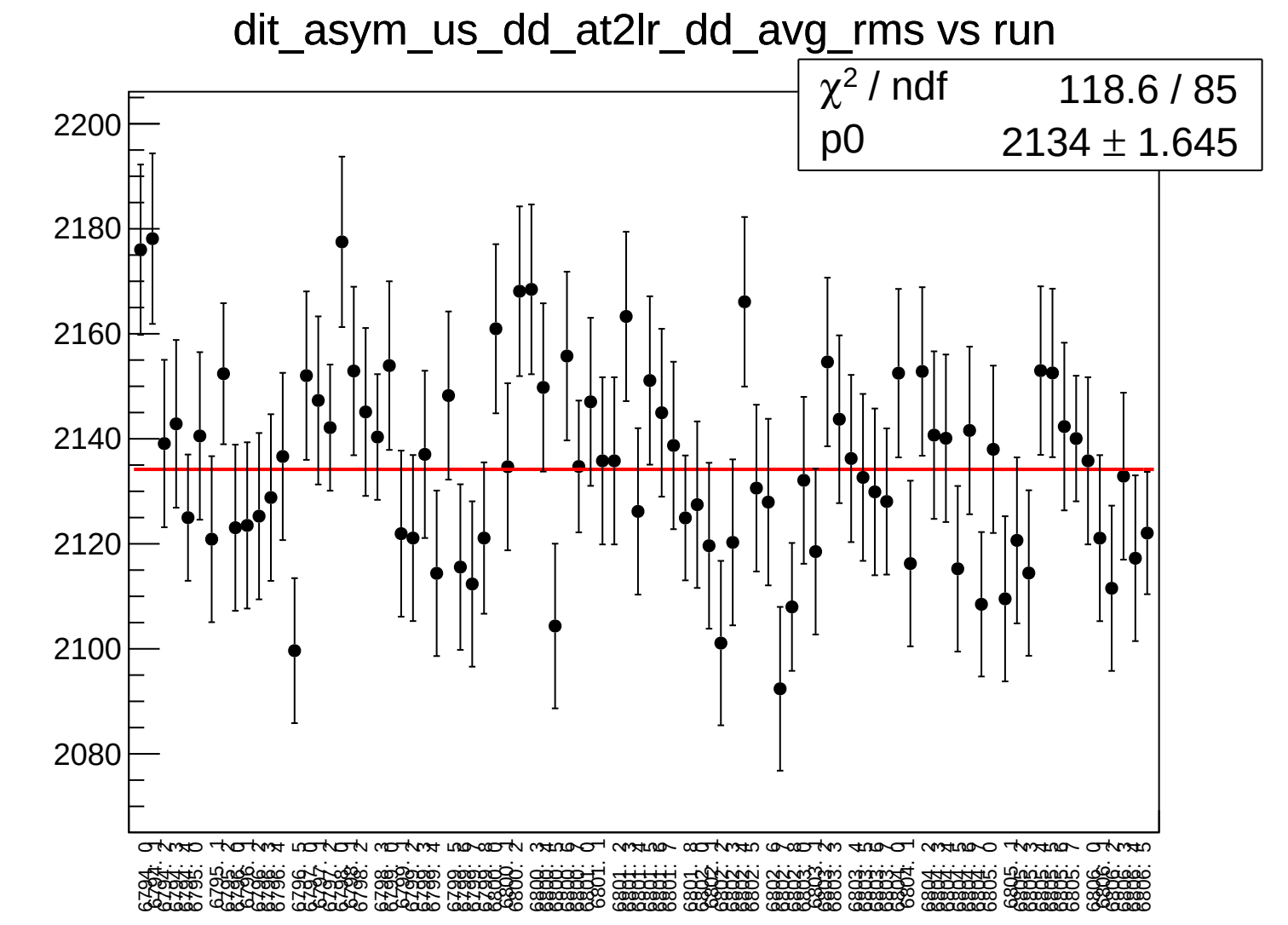

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.97 / 85
p0 −1040 ± 1542
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −77.39
Std Dev 0
2
1
0
−1
−2

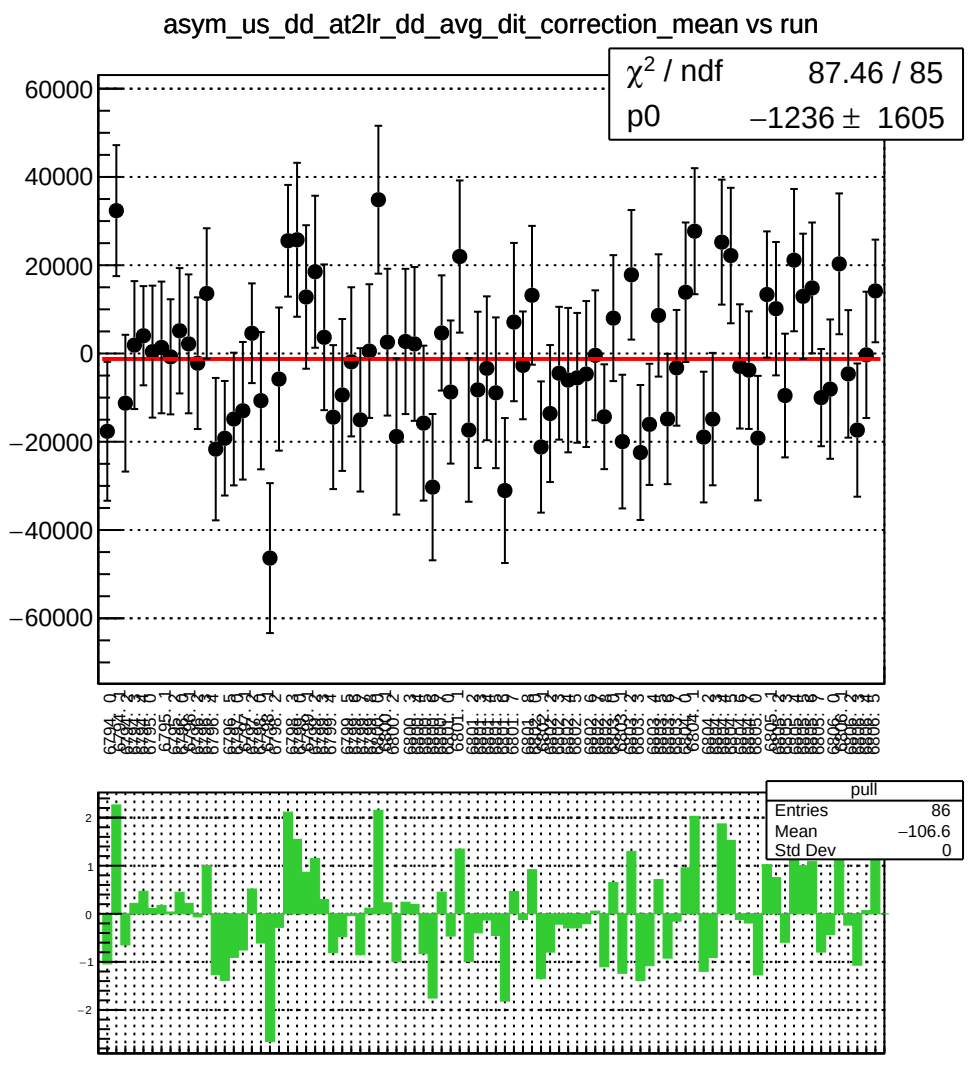

pull1D
Entries 86
Mean −0.01321
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

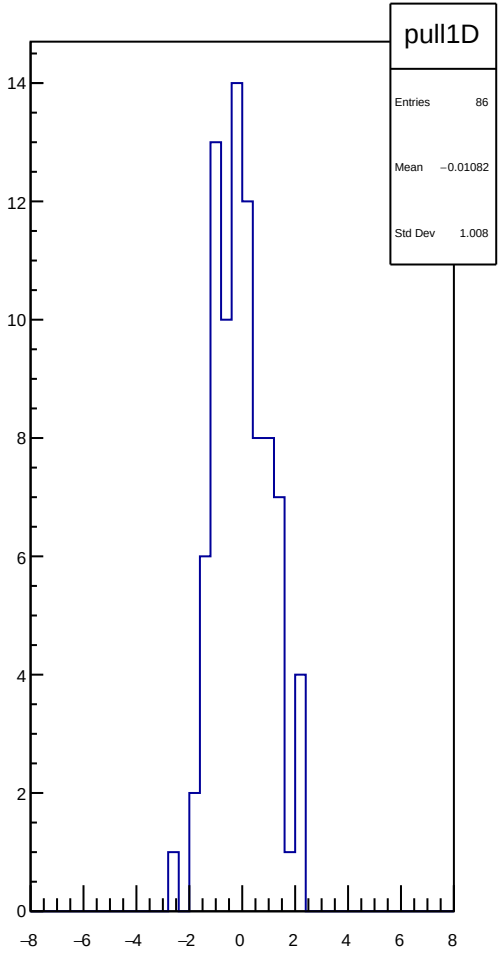

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7981 / 85
p0 1411 ± 1.09
1700
1600
1500
1400
1300

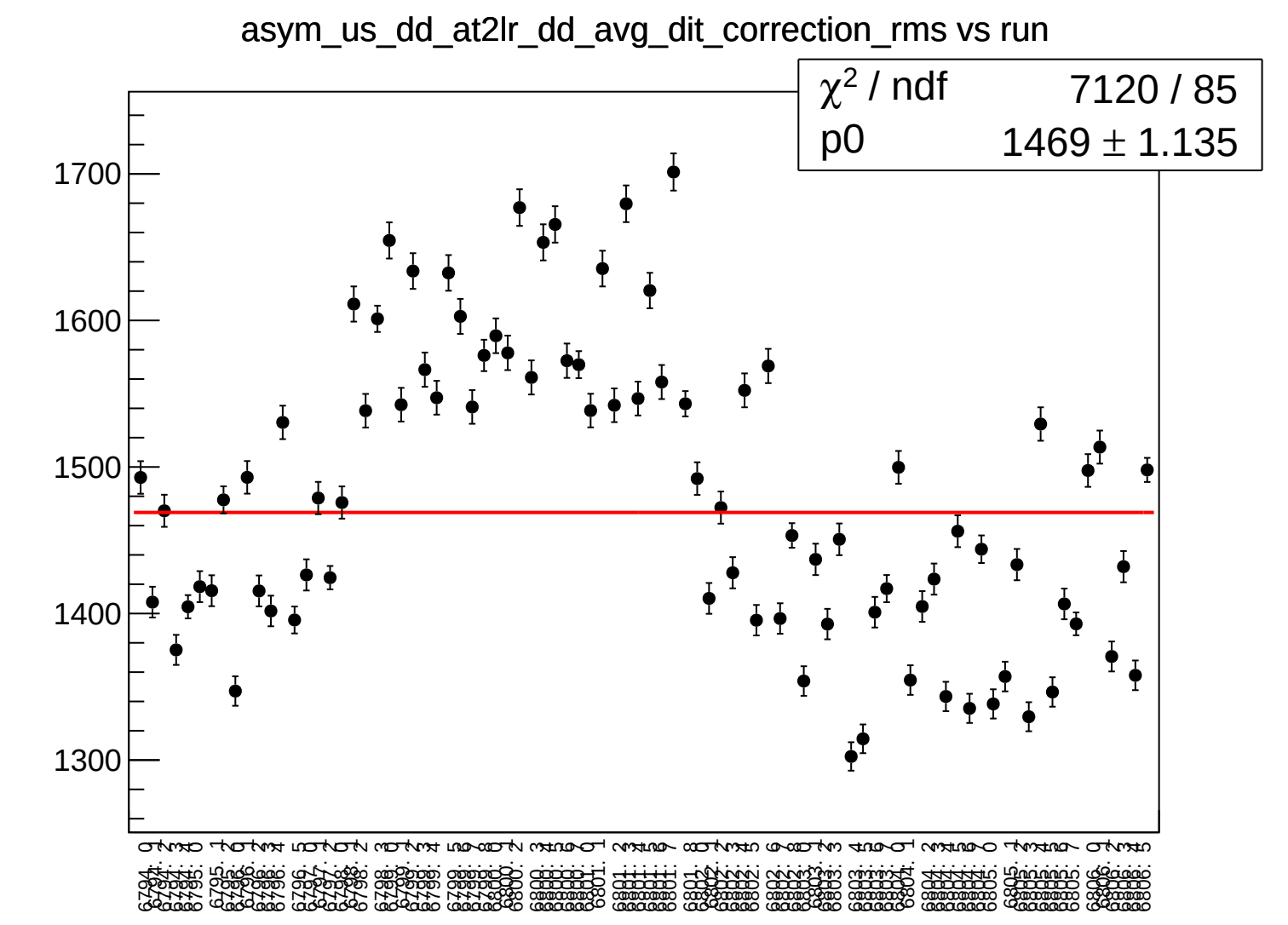

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 77.75 / 85
p0 1712 ± 2327
pull
Entries 86
Mean −133.1
Std Dev 0

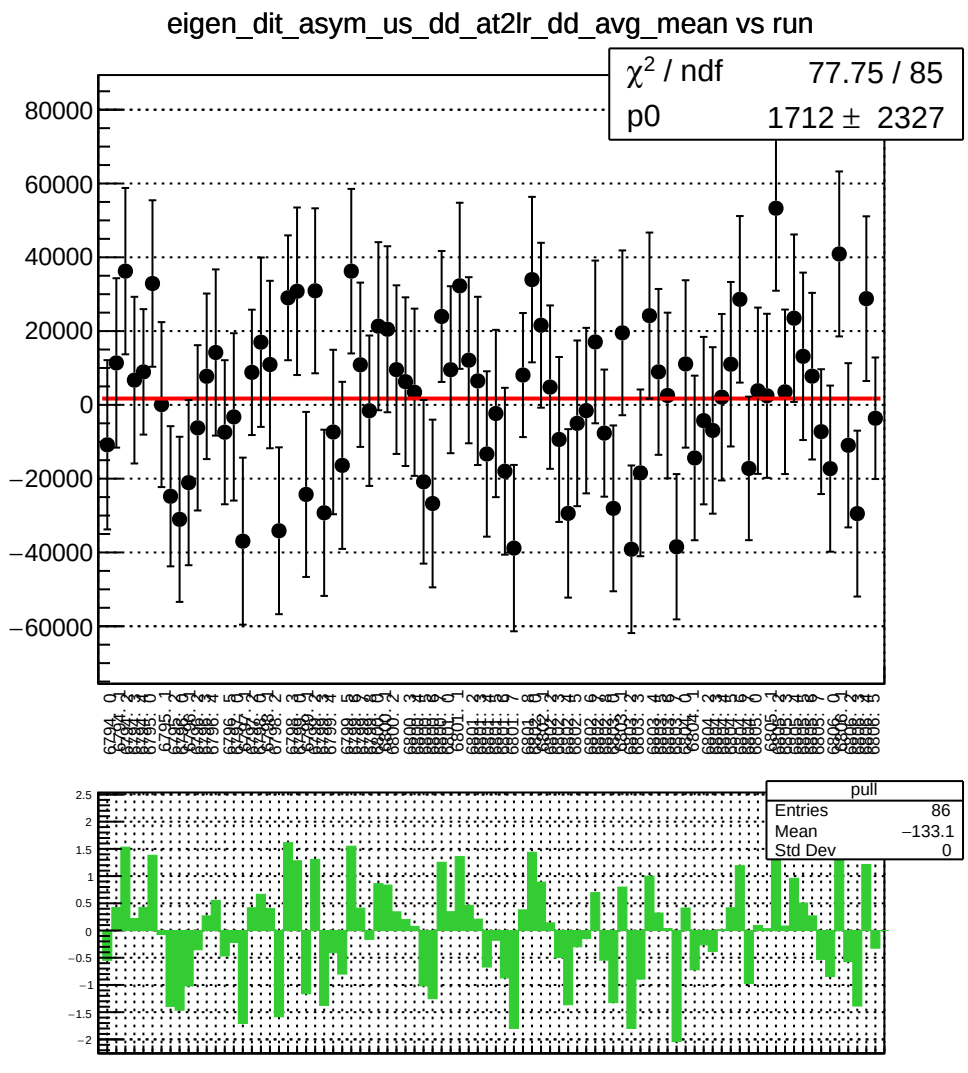

pull1D
Entries 86
Mean −0.000806
Std Dev 0.9508

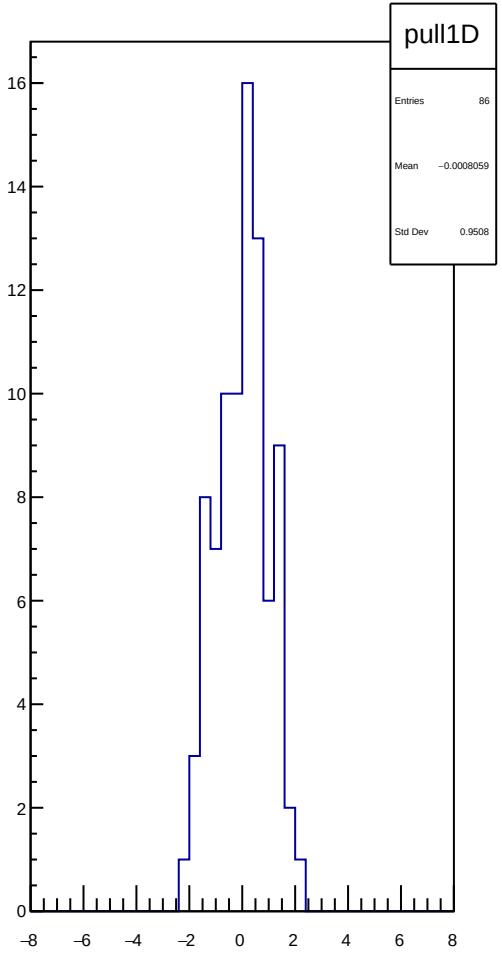

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 118.6 / 85
p0 2134 ± 1.645
2200
2180
2160
2140
2120
2100
2080

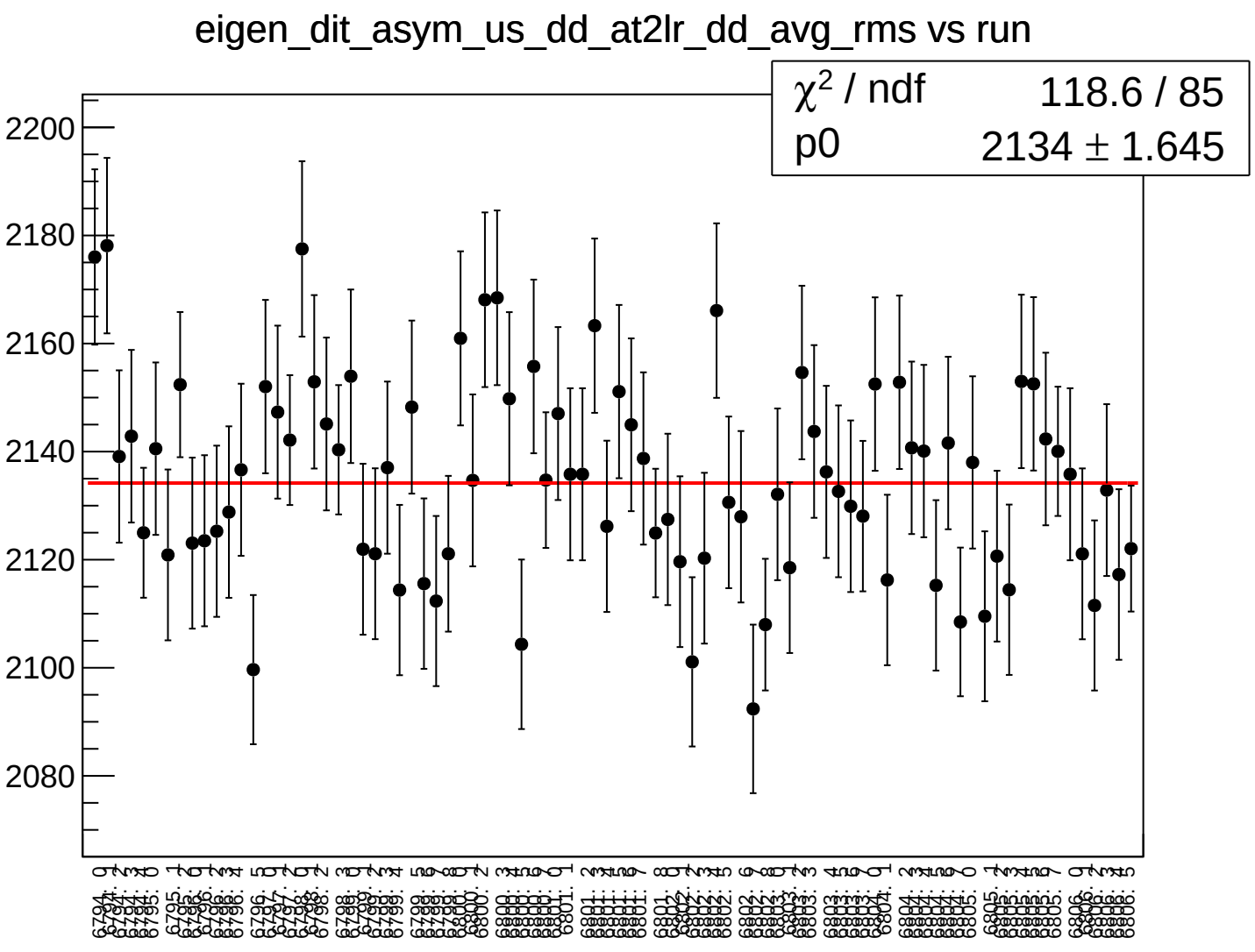

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 87.46 / 85
p0 −1236 ± 1605
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −106.6
Std Dev 0
2
1
0
−1
−2

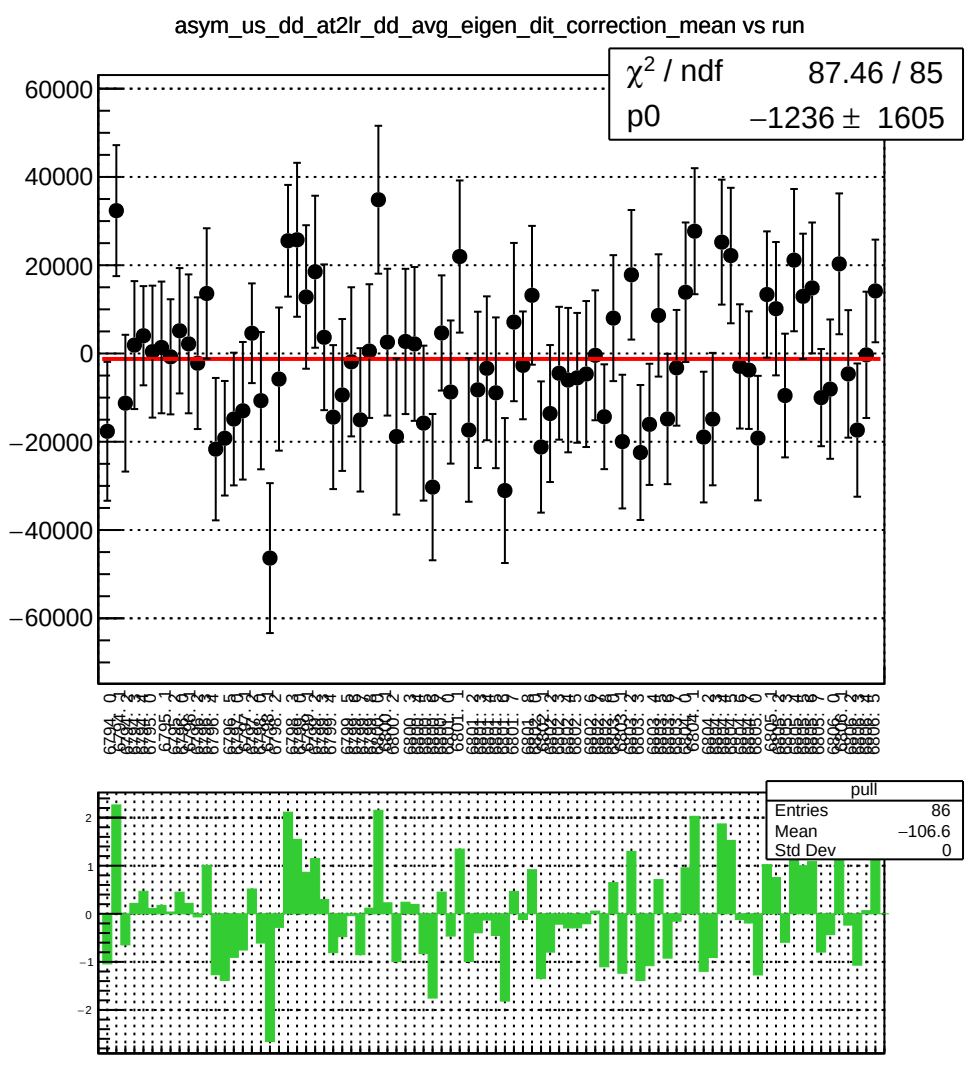

pull1D
Entries 86
Mean −0.01082
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

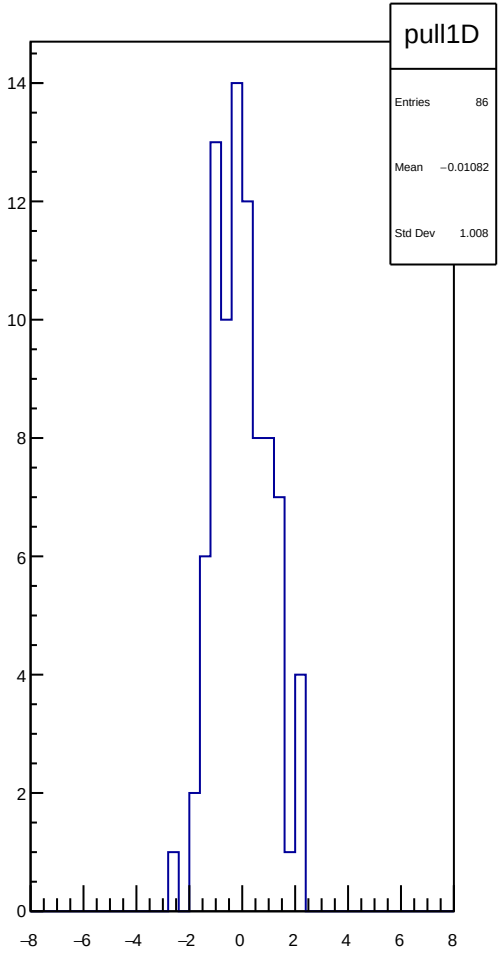

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 7120 / 85
p0 1469 ± 1.135
1700
1600
1500
1400
1300

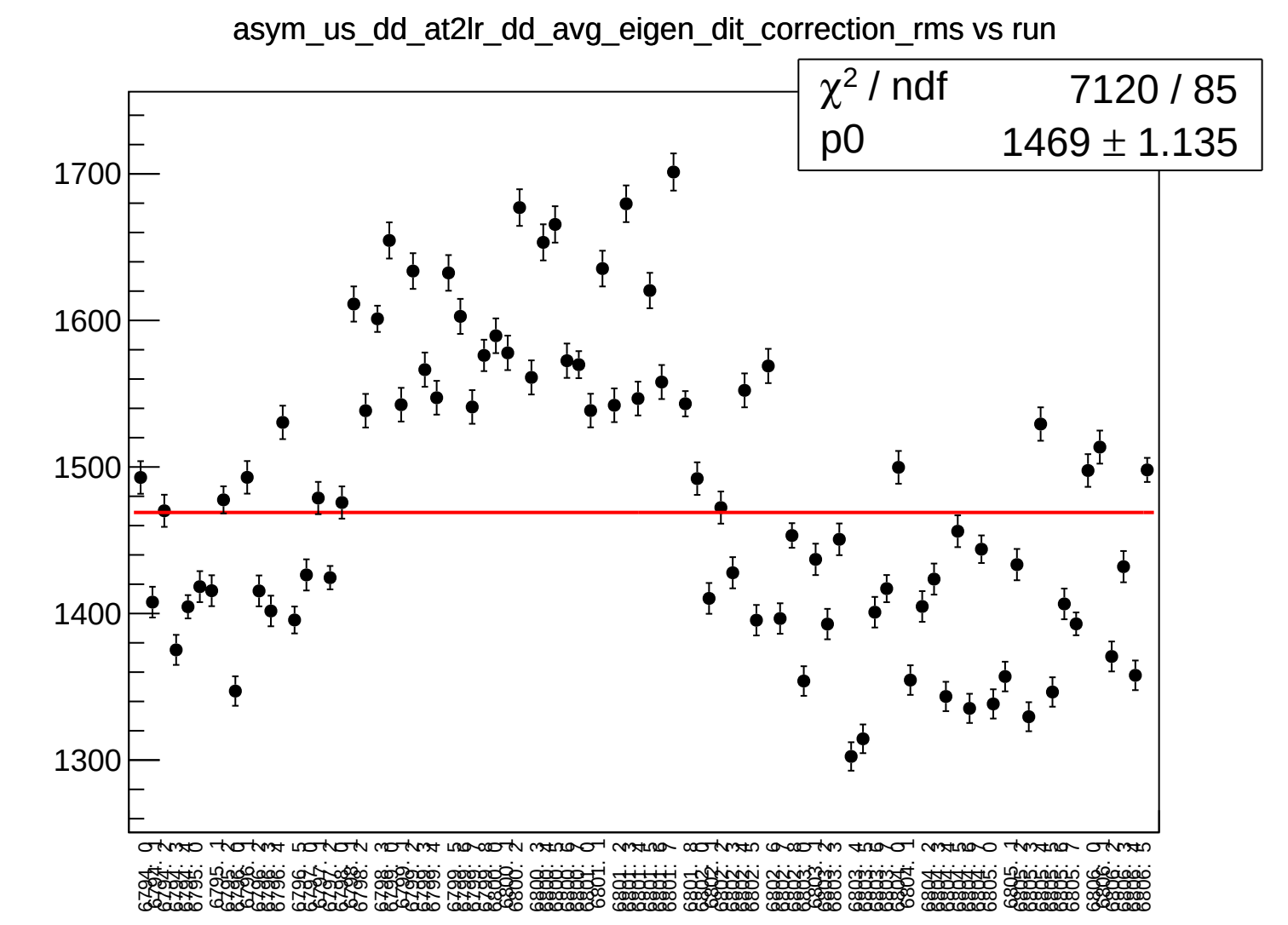

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 77.75 / 85
p0 1712 ± 2327
pull
Entries 86
Mean −133.1
Std Dev 0

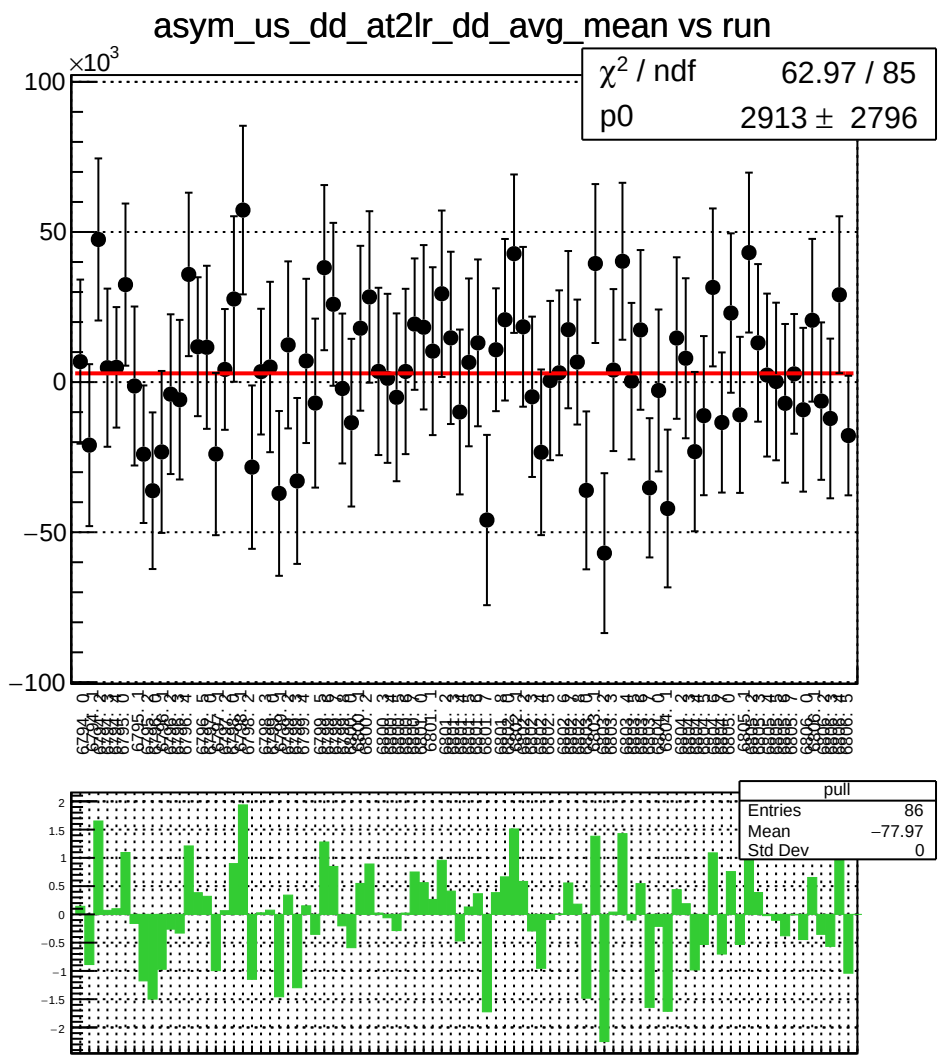

pull1D
Entries 86
Mean −0.0008059
Std Dev 0.9508

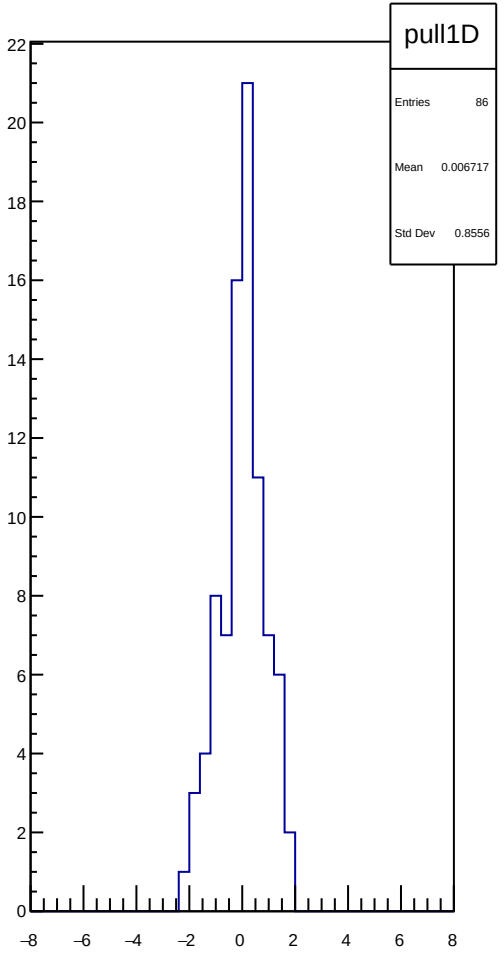

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 118.6 / 85
p0 2134 ± 1.645
2200
2180
2160
2140
2120
2100
2080

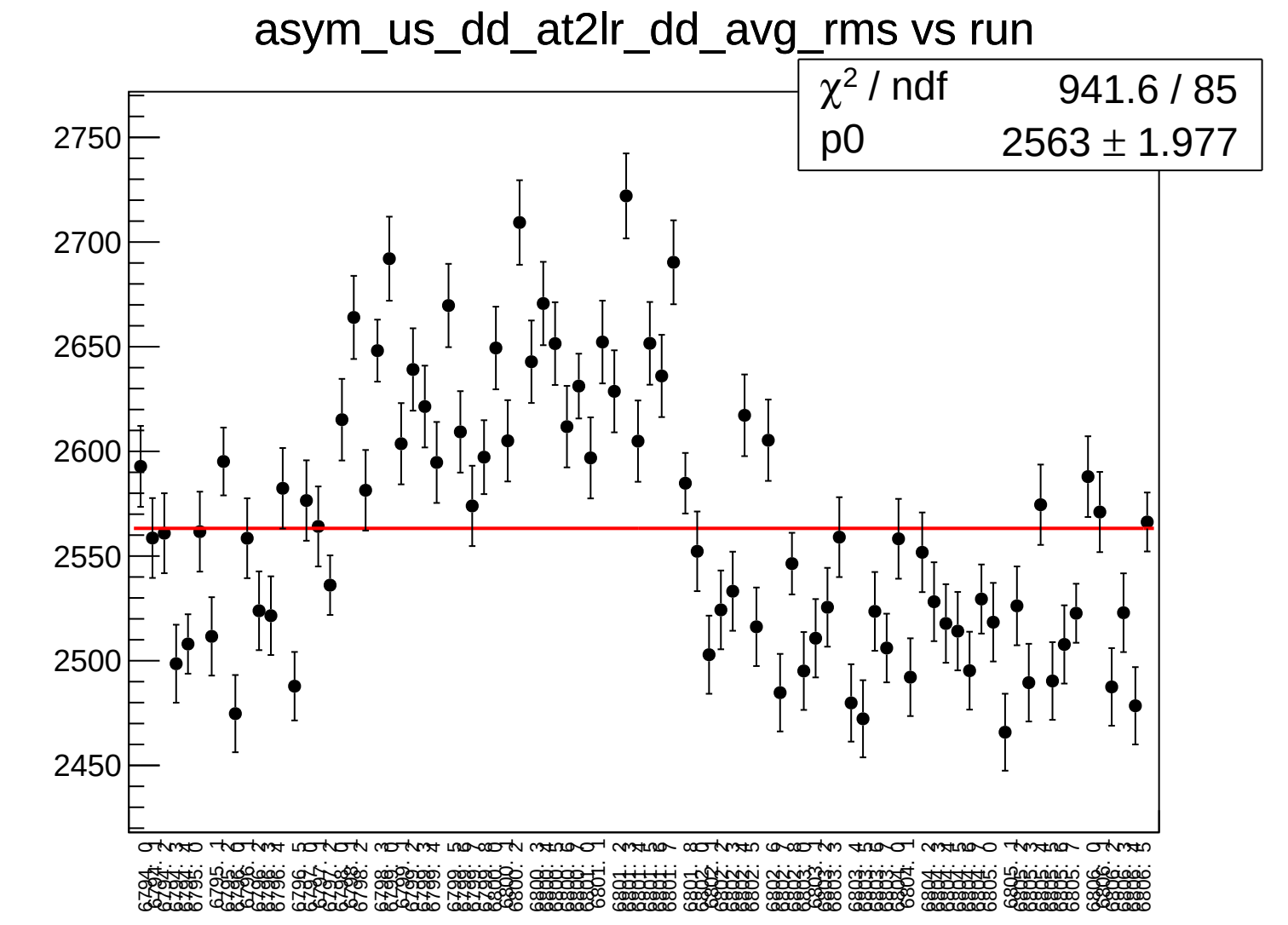

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.46 / 85
p0 −1236 ± 1605
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −106.6
Std Dev 0
2
1
0
−1
−2

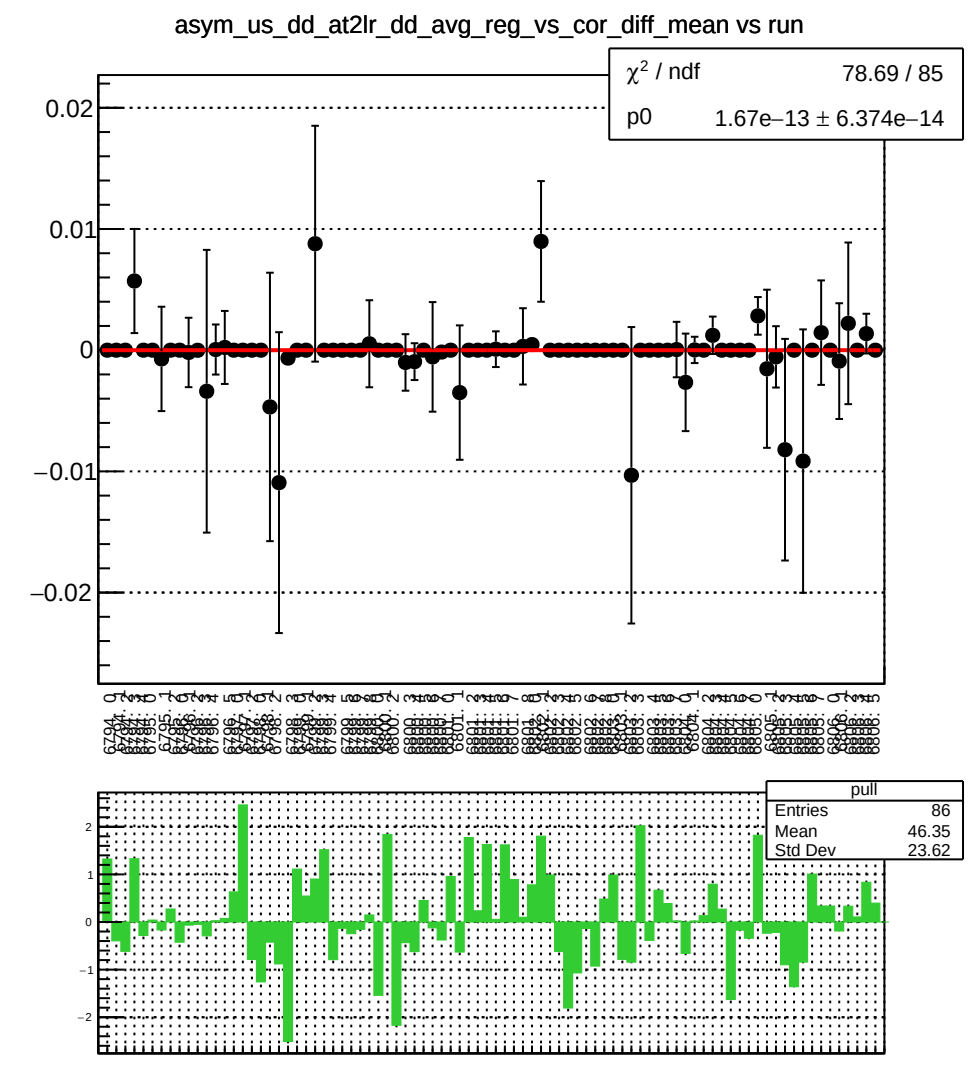

pull1D
Entries 86
Mean −0.01082
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

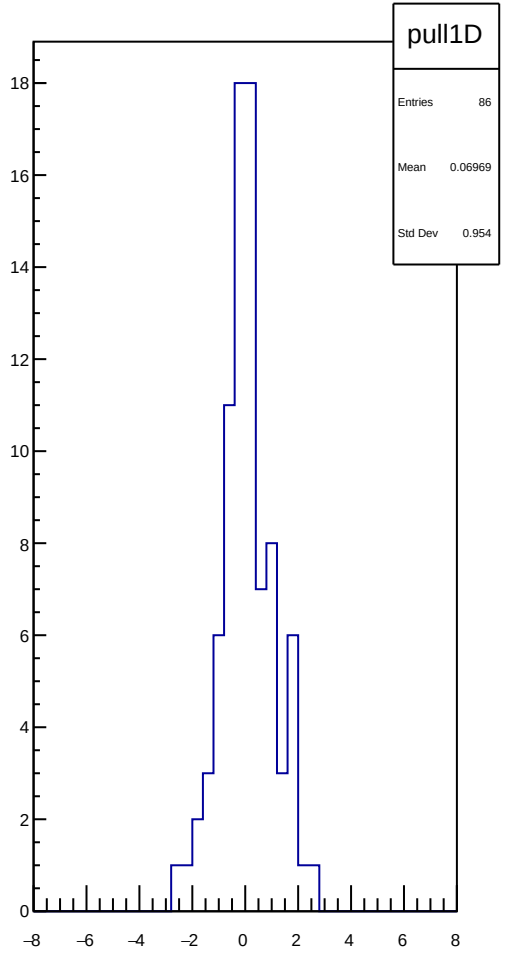

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 7120 / 85
p0 1469 ± 1.135
1700
1600
1500
1400
1300

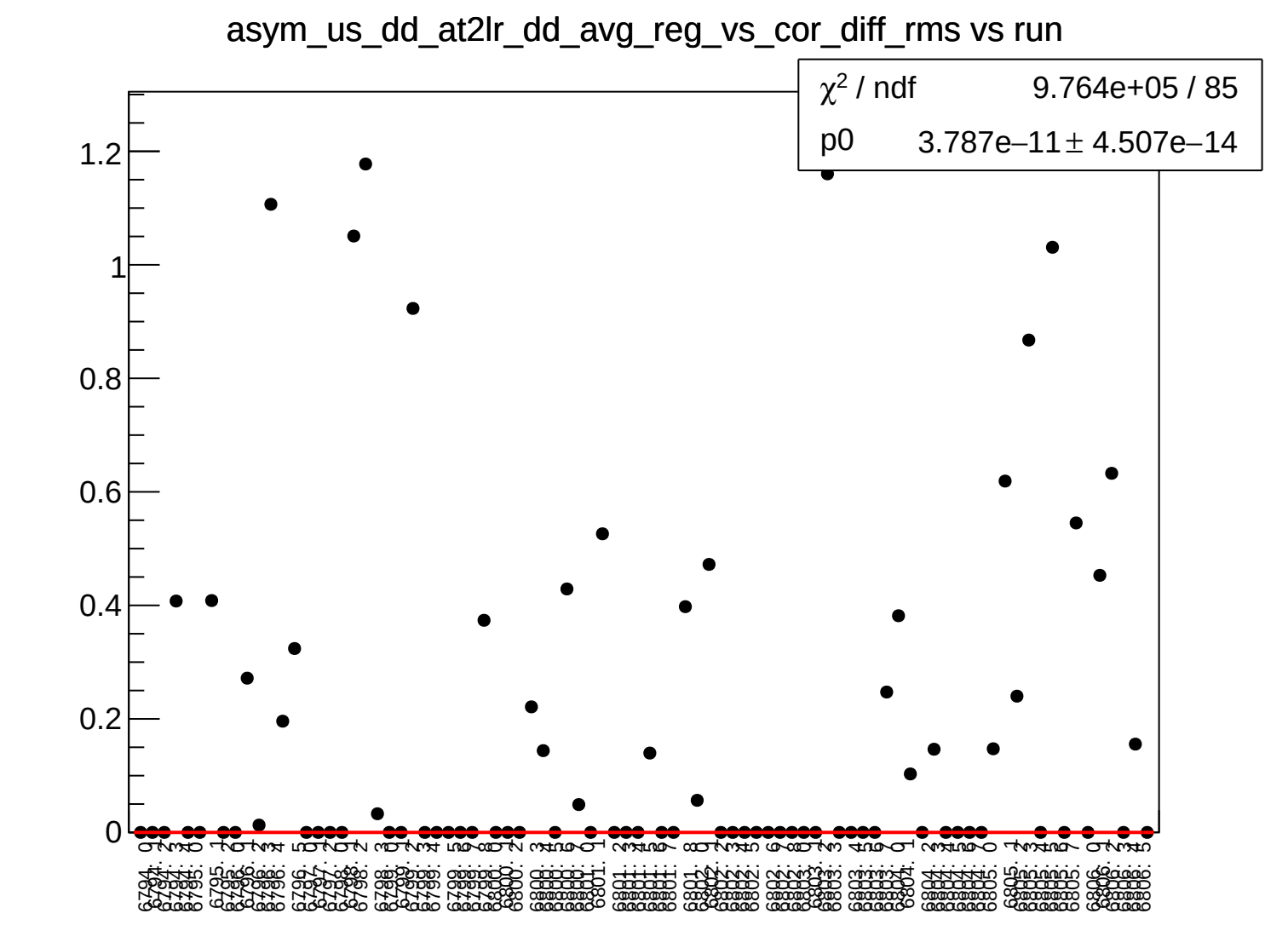

asym_us_dd_at2lr_dd_avg_mean vs run
χ^2 / ndf 62.97 / 85
p0 2913 ± 2796
×10^3
pull
Entries 86
Mean −77.97
Std Dev 0

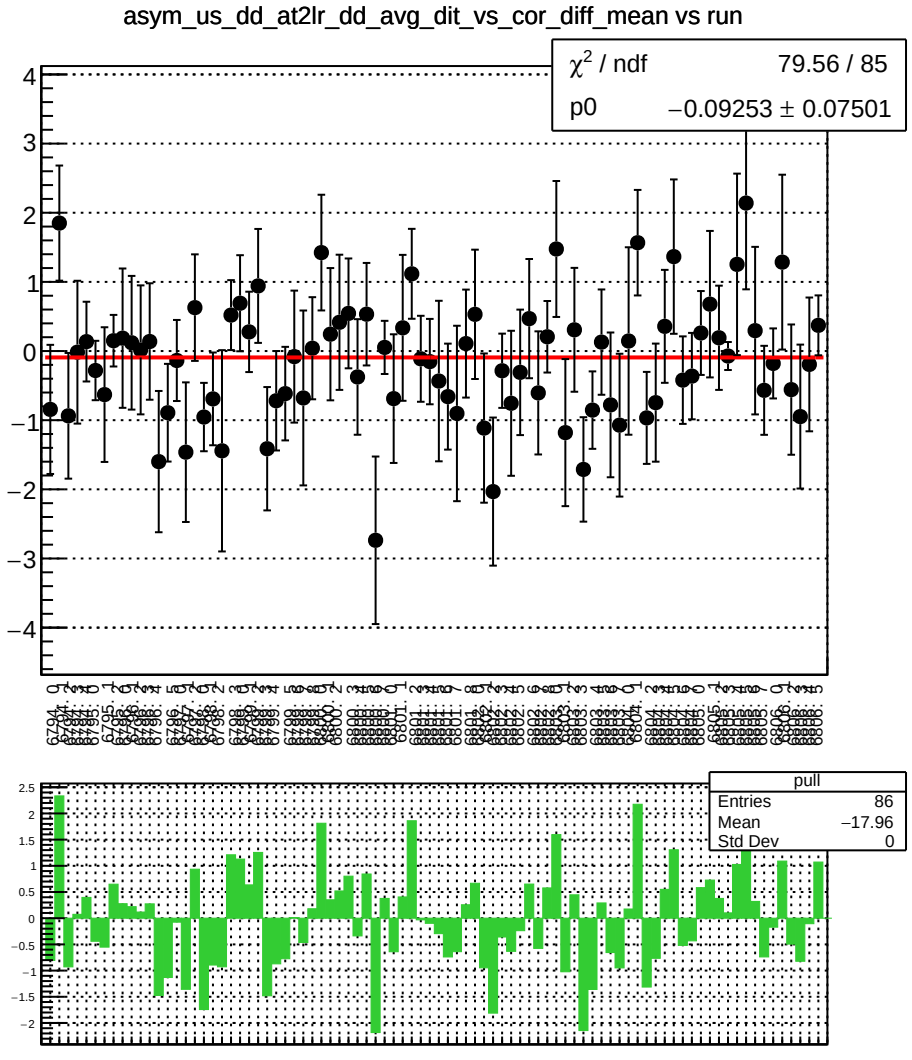

pull1D
Entries 86
Mean 0.006717
Std Dev 0.8556

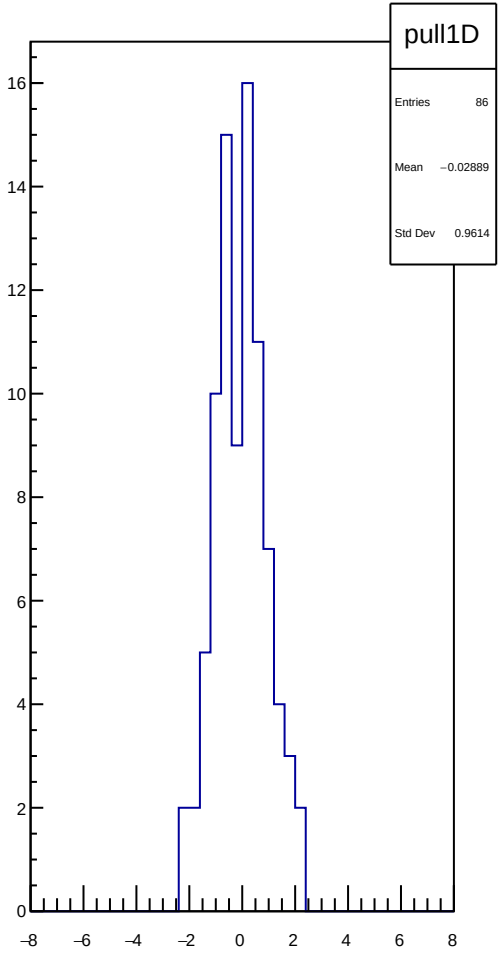

asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 941.6 / 85
p0 2563 ± 1.977
2750
2700
2650
2600
2550
2500
2450

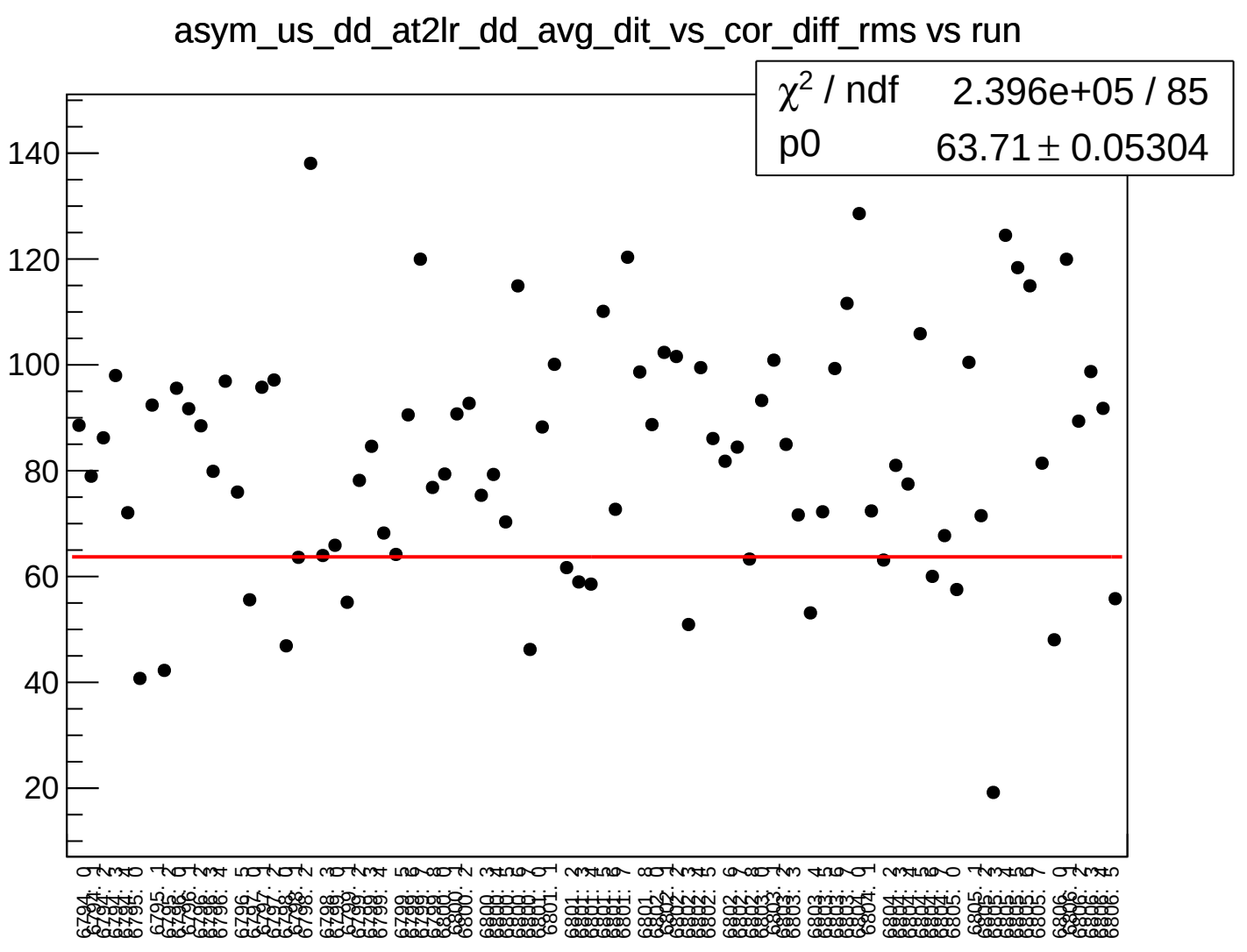

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.69 / 85
p0 1.67e−13 ± 6.374e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean 46.35
Std Dev 23.62
2
1
0
−1
−2

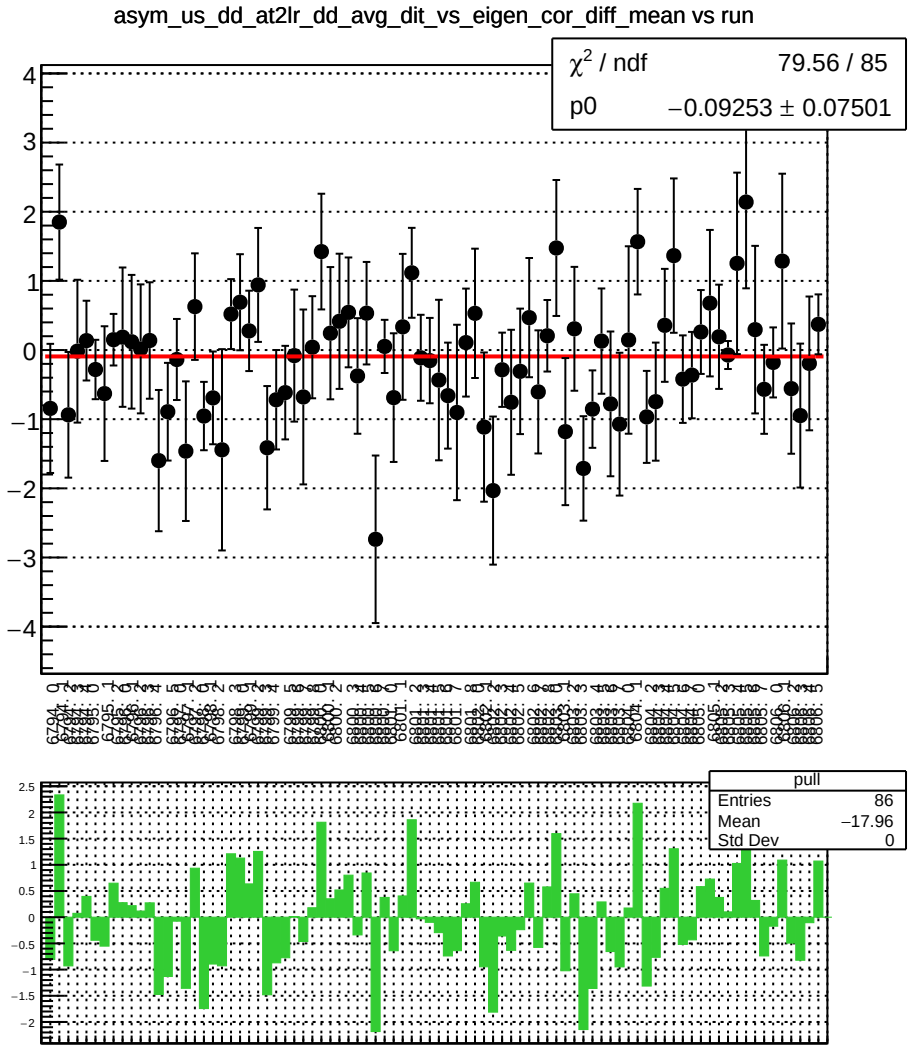

pull1D
Entries 86
Mean 0.06969
Std Dev 0.954
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

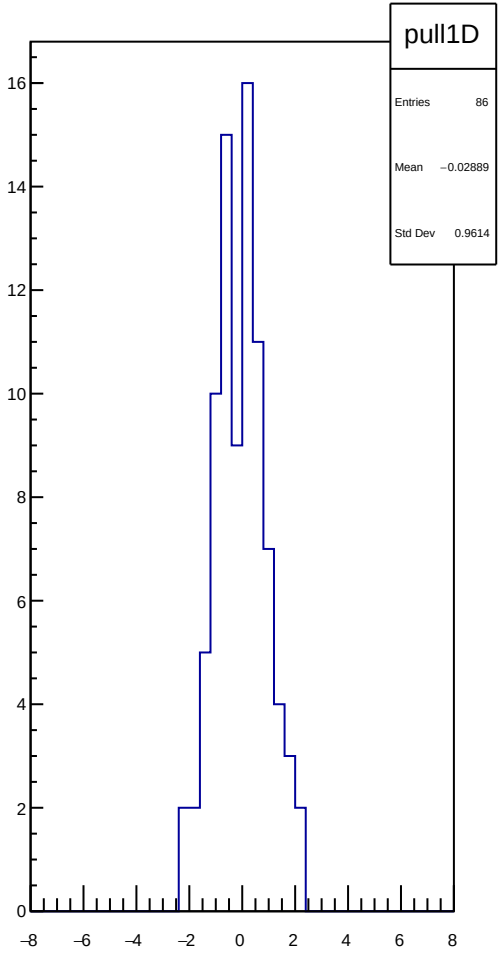

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.764e+05 / 85
p0 3.787e−11 ± 4.507e−14
1.2
1
0.8
0.6
0.4
0.2
0

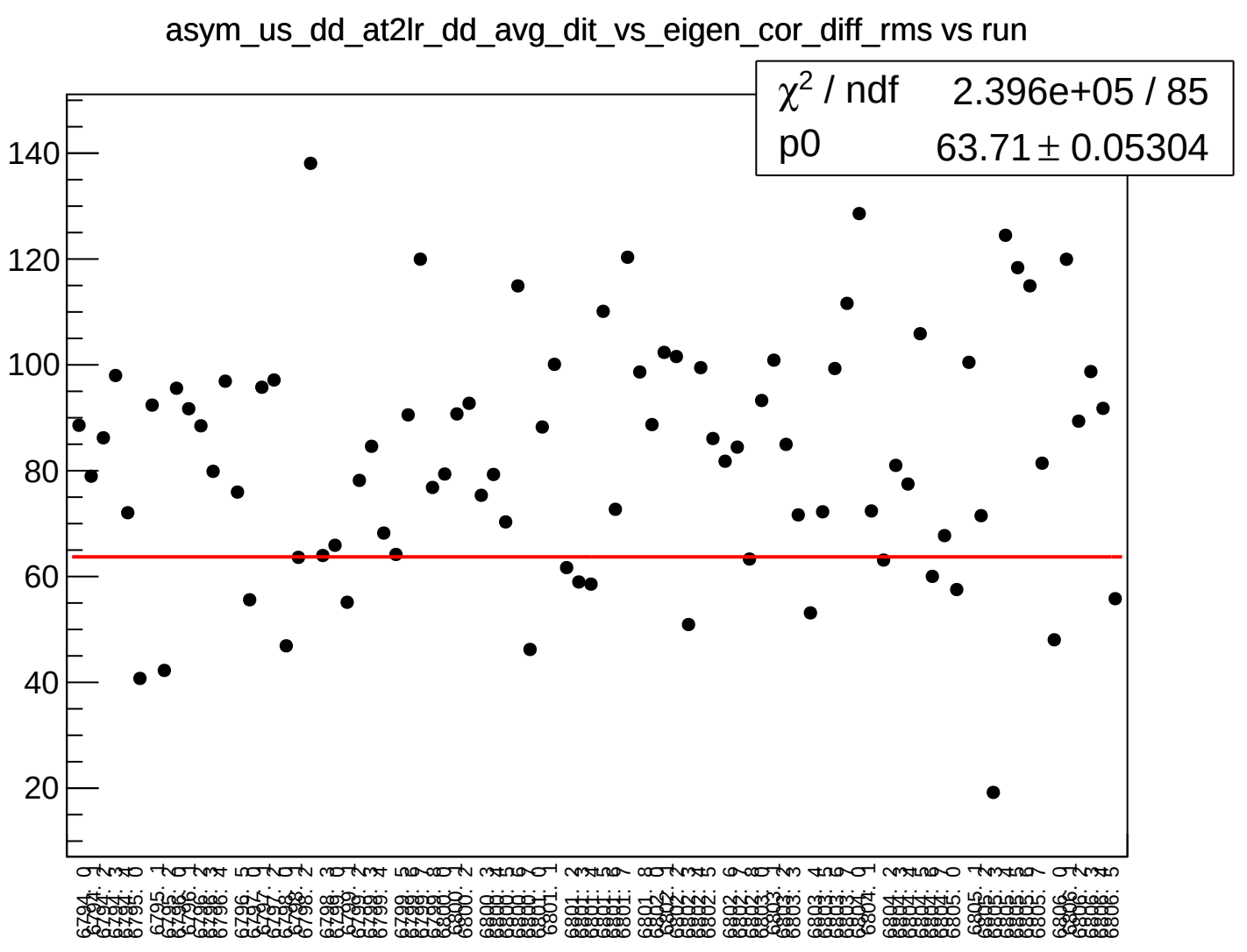

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 85
p0 −0.09253 ± 0.07501
pull
Entries 86
Mean −17.96
Std Dev 0

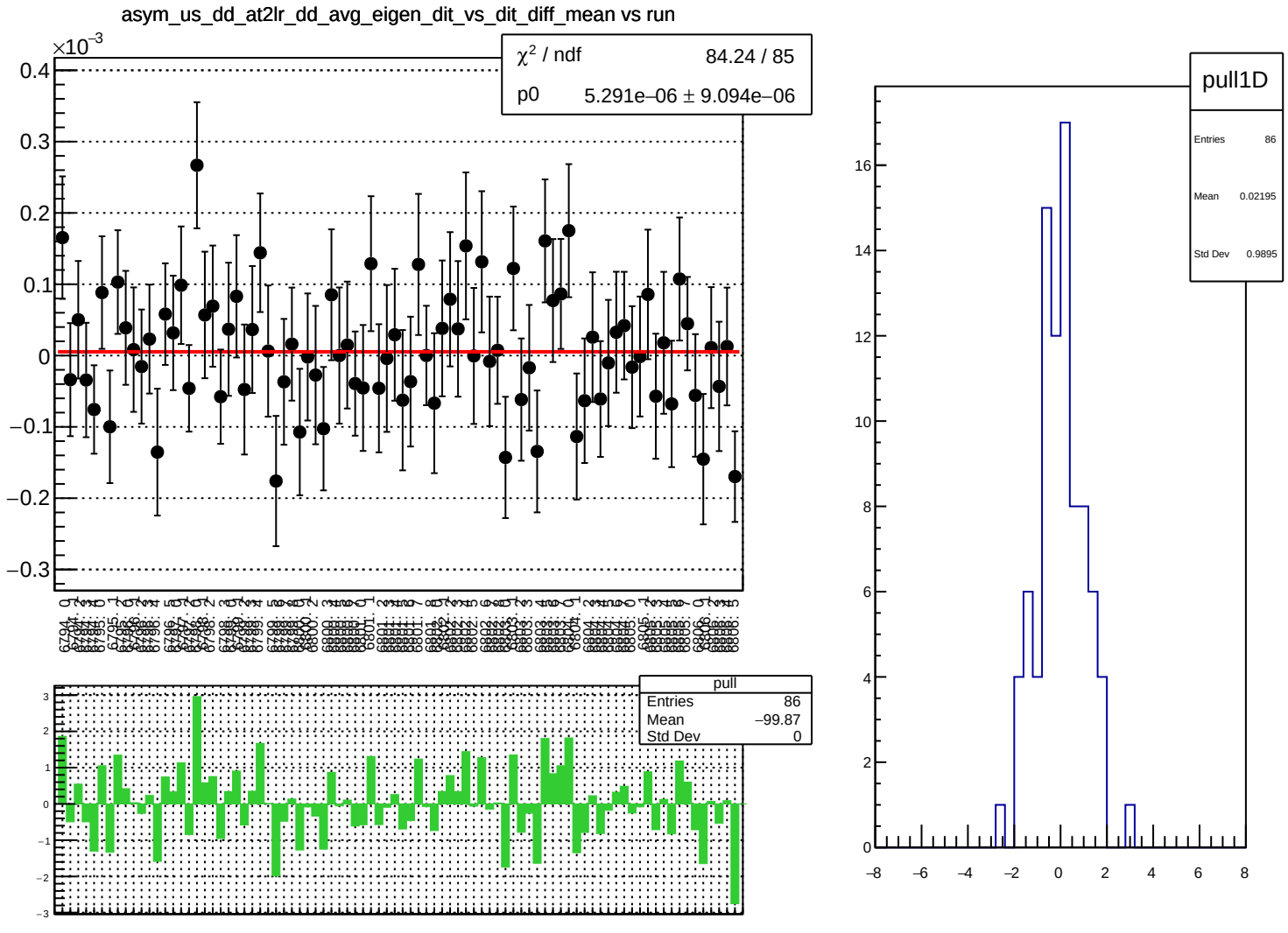

pull1D
Entries 86
Mean −0.02889
Std Dev 0.9614

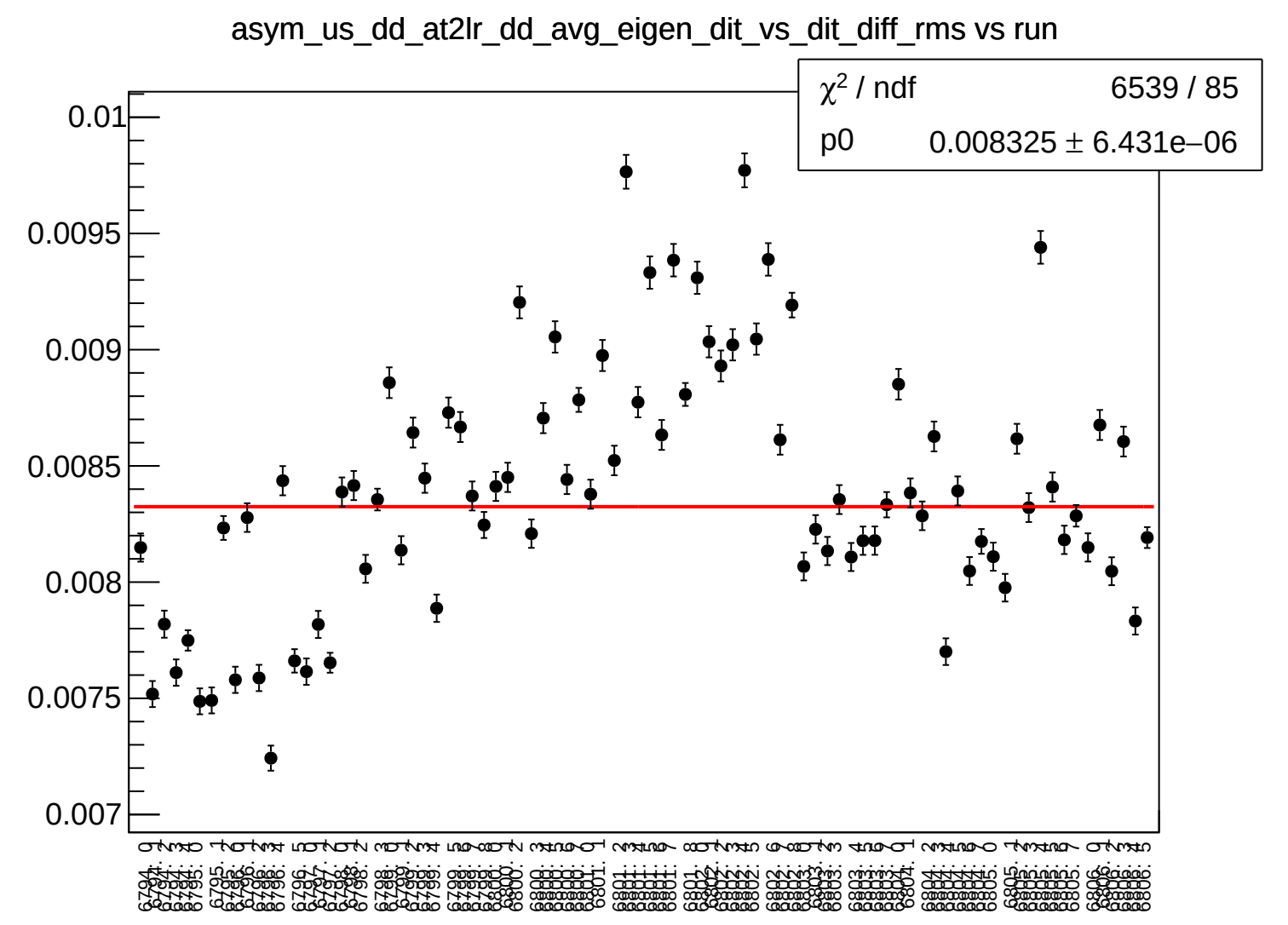

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.396e+05 / 85
p0 63.71 ± 0.05304
140
120
100
80
60
40
20

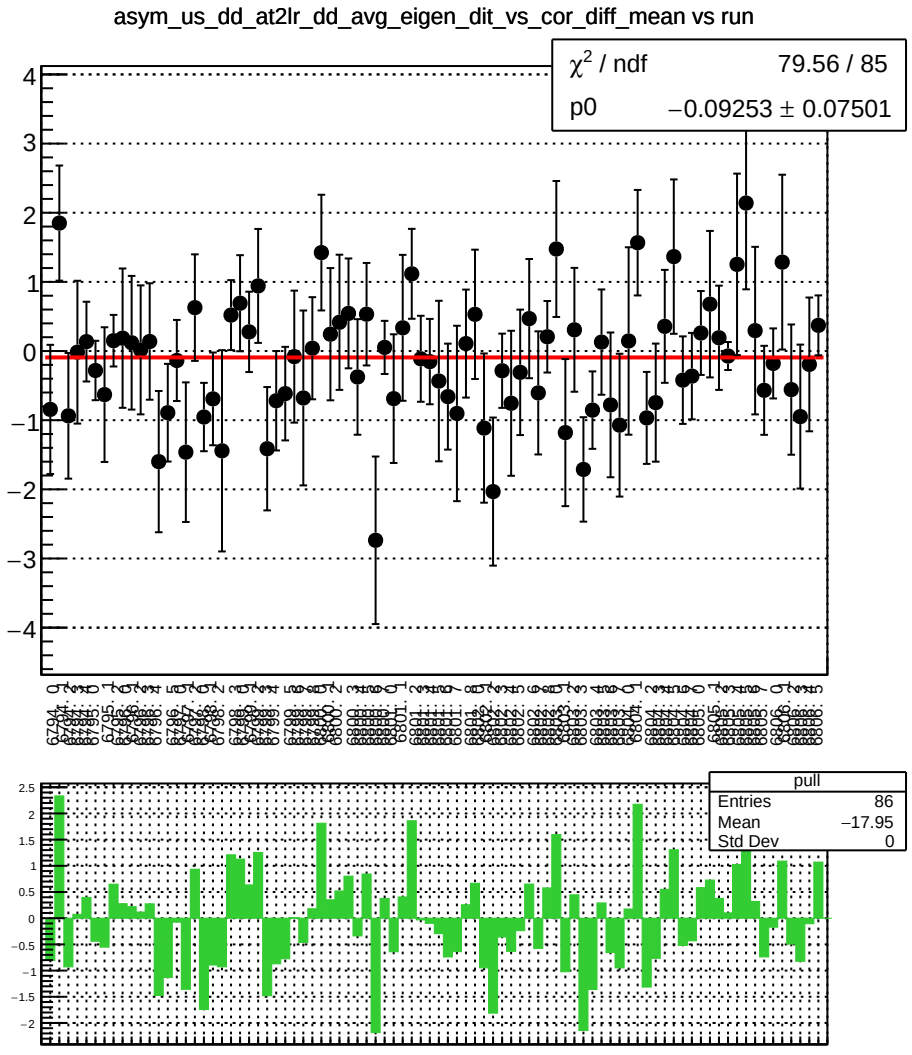

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.56 / 85
p0 −0.09253 ± 0.07501
pull
Entries 86
Mean −17.96
Std Dev 0

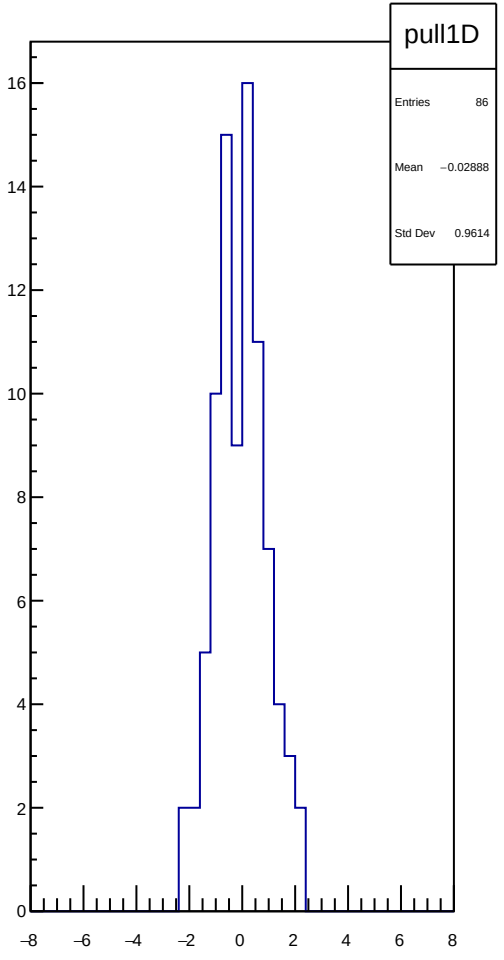

pull1D
Entries 86
Mean −0.02889
Std Dev 0.9614

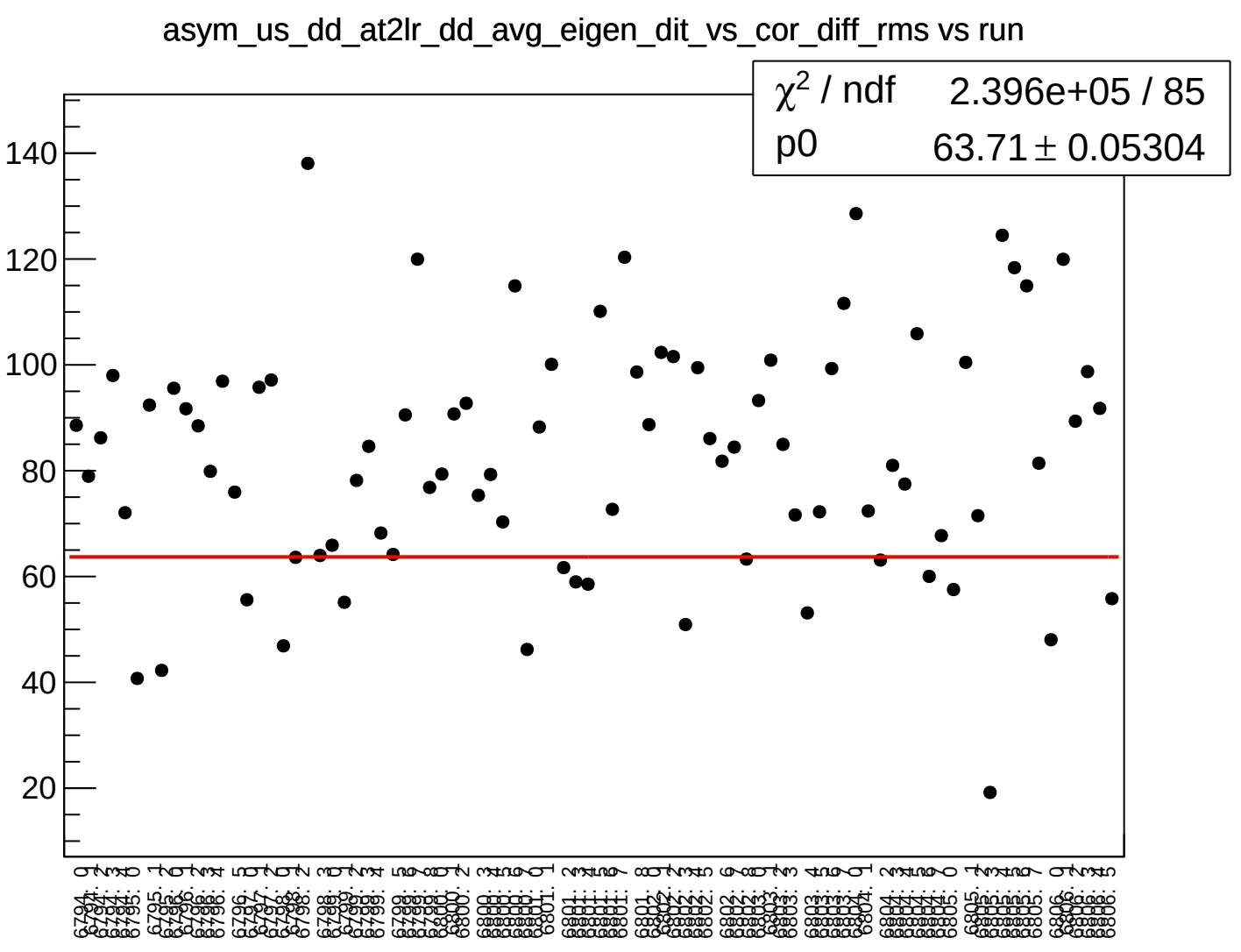

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.396e+05 / 85
p0 63.71 ± 0.05304
140
120
100
80
60
40
20

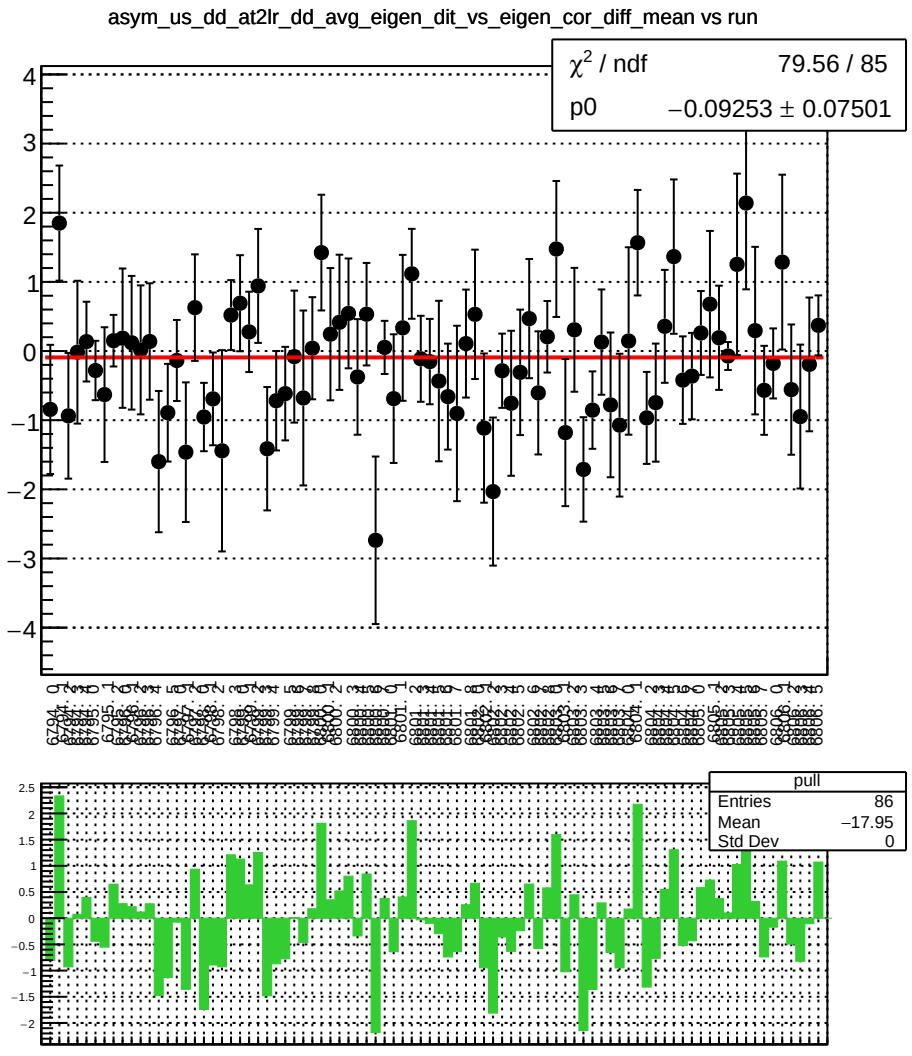

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.24 / 85
p0 5.291e−06 ± 9.094e−06
pull
Entries 86
Mean −99.87
Std Dev 0
pull1D
Entries 86
Mean 0.02195
Std Dev 0.9895

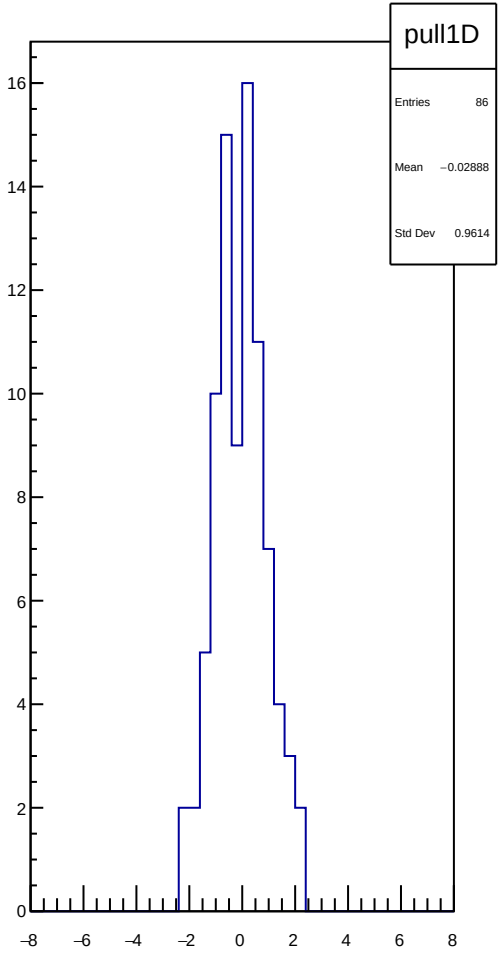

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6539 / 85
p0 0.008325 ± 6.431e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

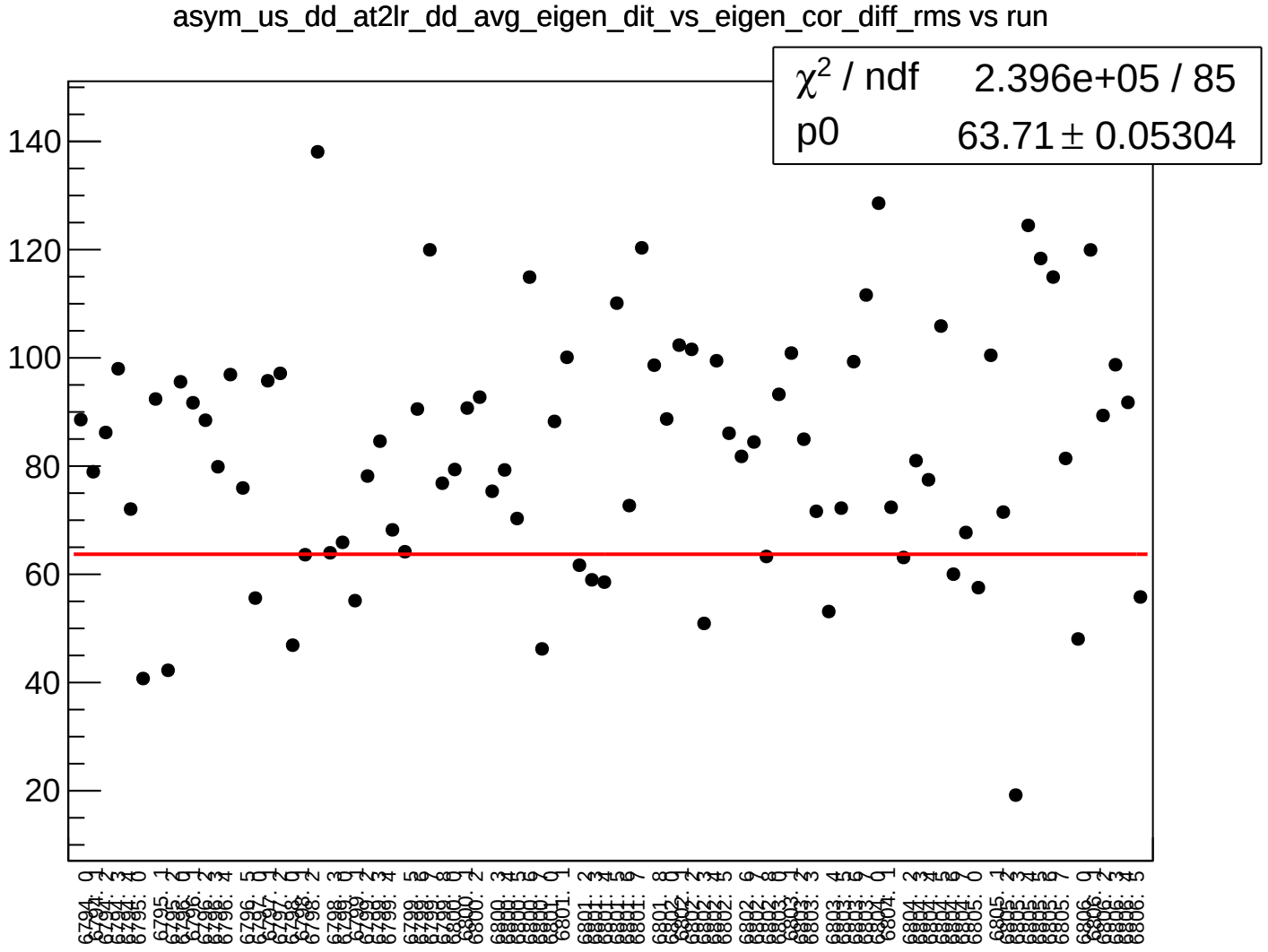

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.56 / 85
p0 −0.09253 ± 0.07501
pull
Entries 86
Mean −17.95
Std Dev 0

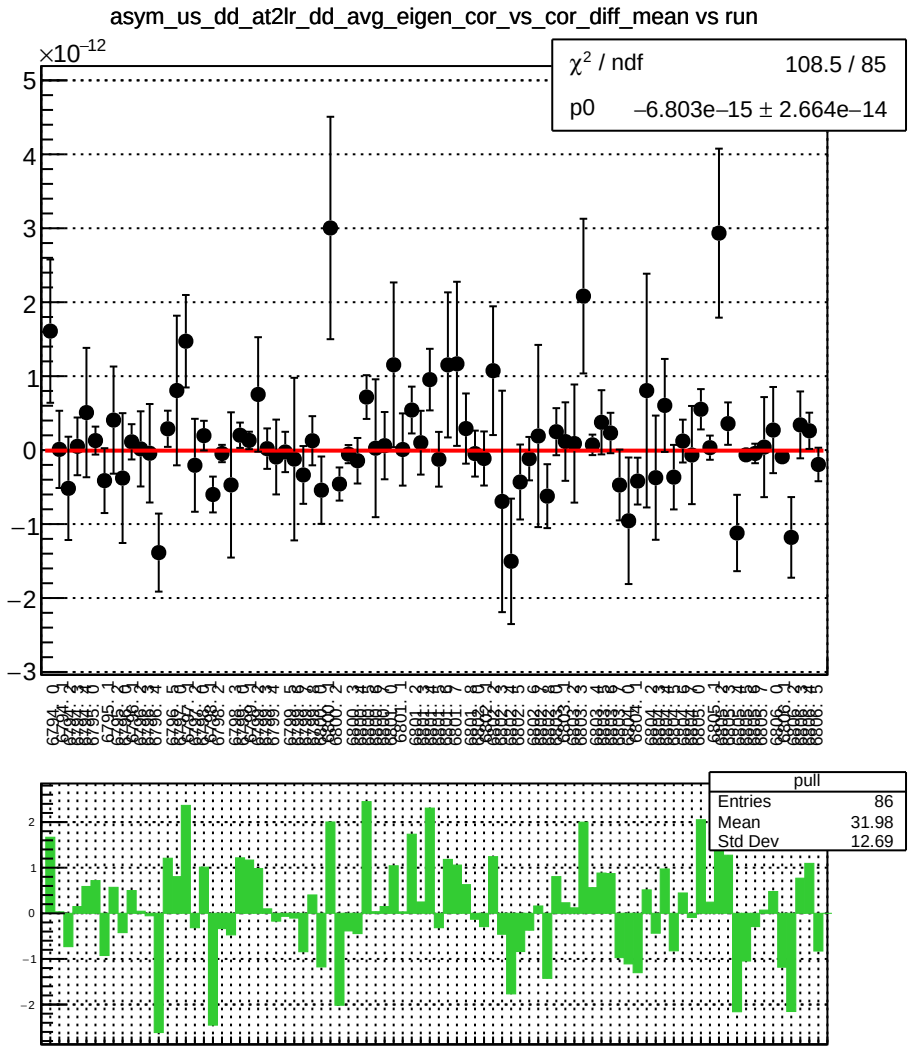

pull1D
Entries 86
Mean −0.02888
Std Dev 0.9614

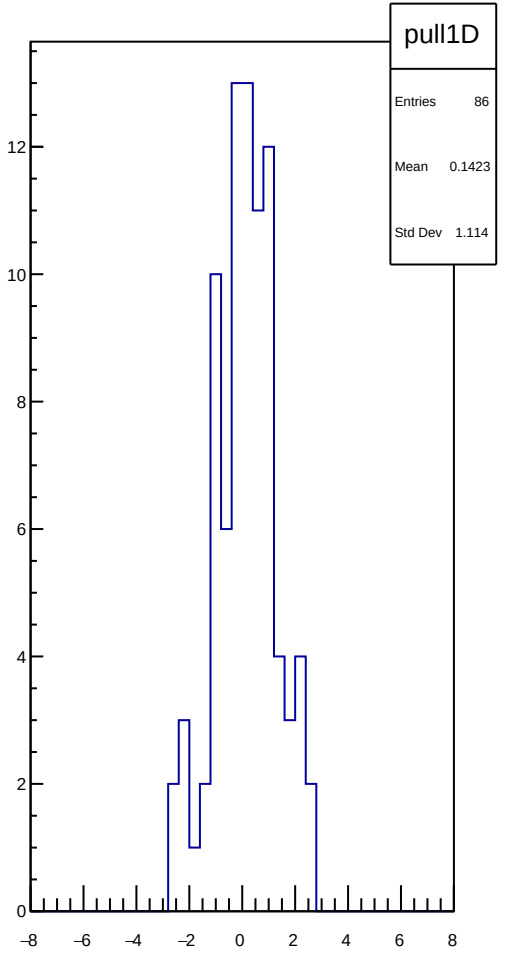

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.396e+05 / 85
p0 63.71 ± 0.05304
140
120
100
80
60
40
20

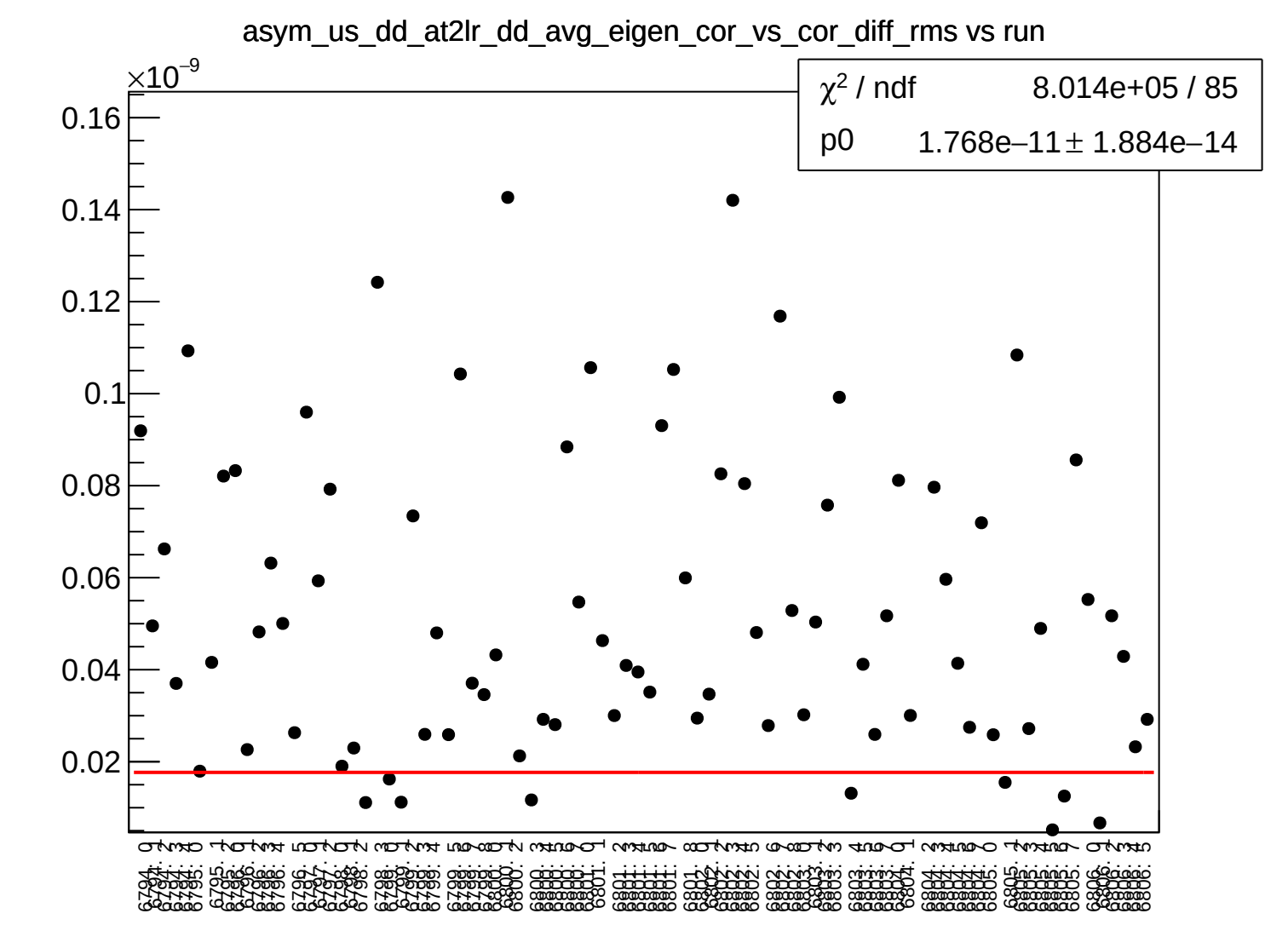

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.56 / 85
p0 −0.09253 ± 0.07501
pull
Entries 86
Mean −17.95
Std Dev 0

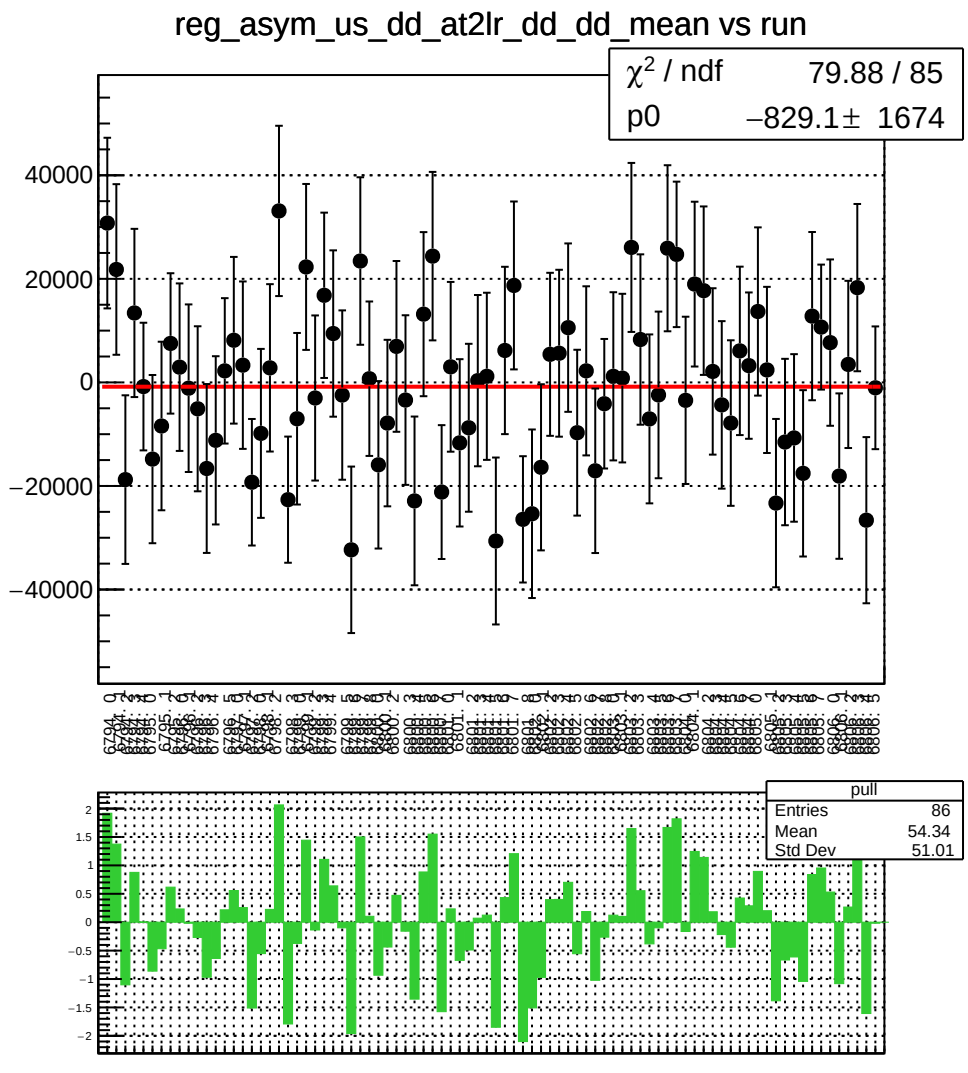

pull1D
Entries 86
Mean −0.02888
Std Dev 0.9614

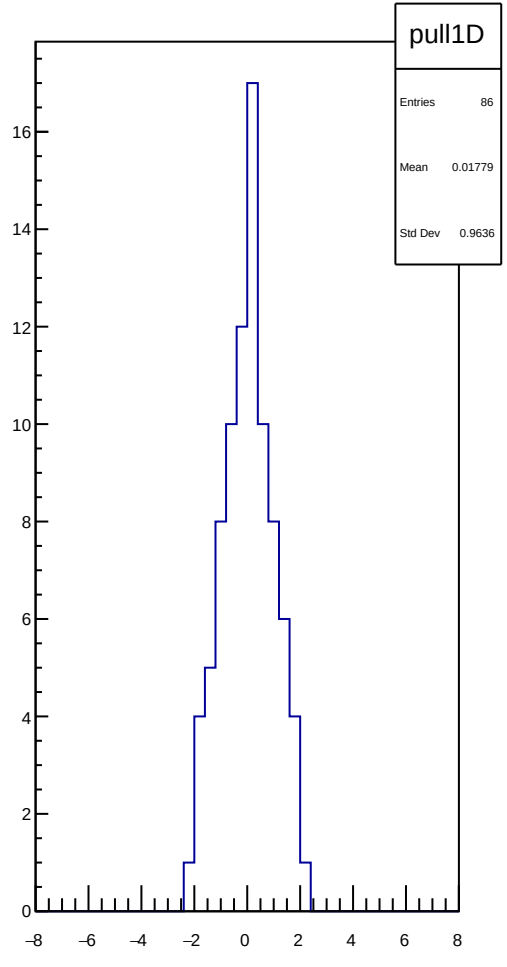

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.396e+05 / 85
p0 63.71 ± 0.05304
140
120
100
80
60
40
20

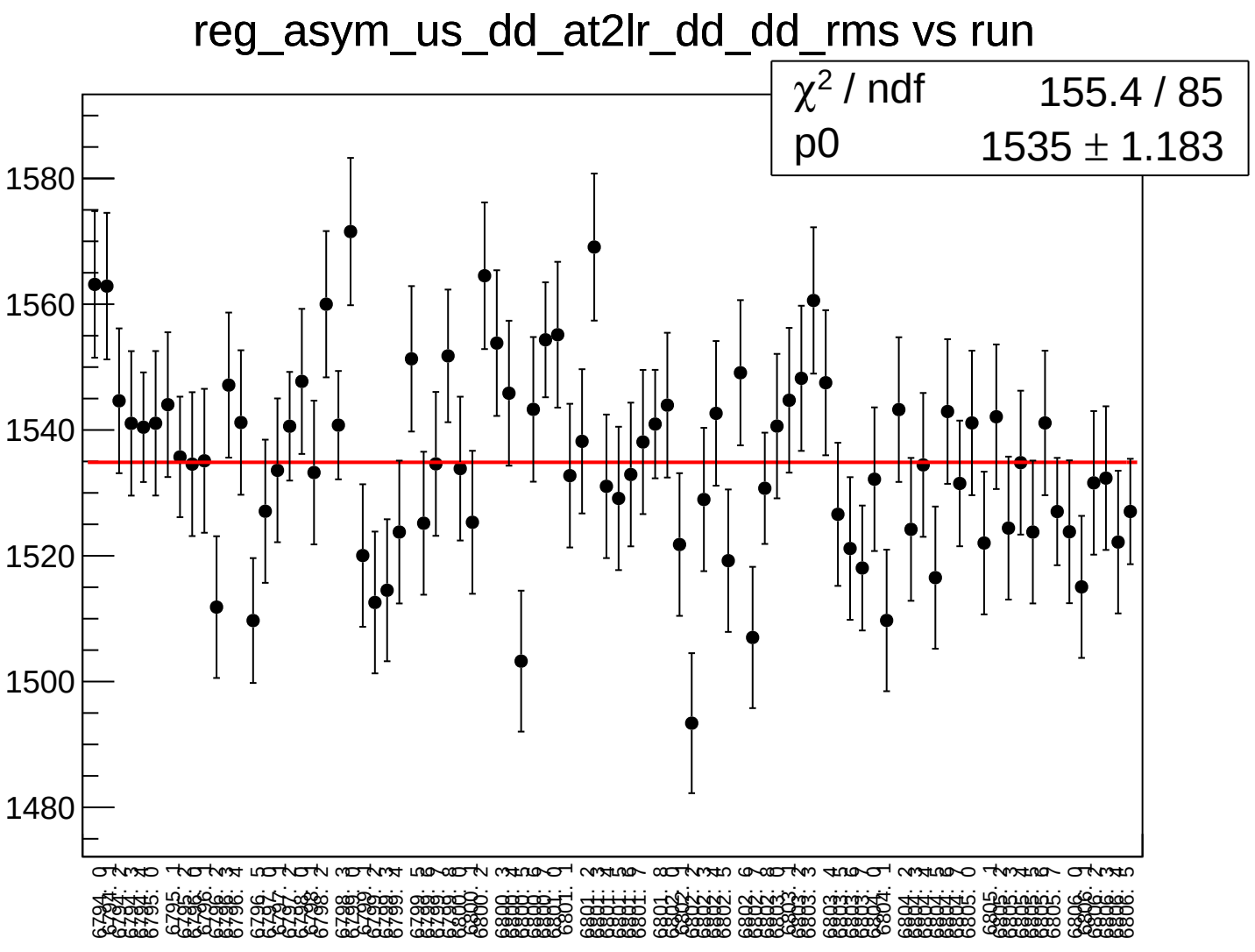

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.5 / 85
p0 −6.803e−15 ± 2.664e−14
pull
Entries 86
Mean 31.98
Std Dev 12.69

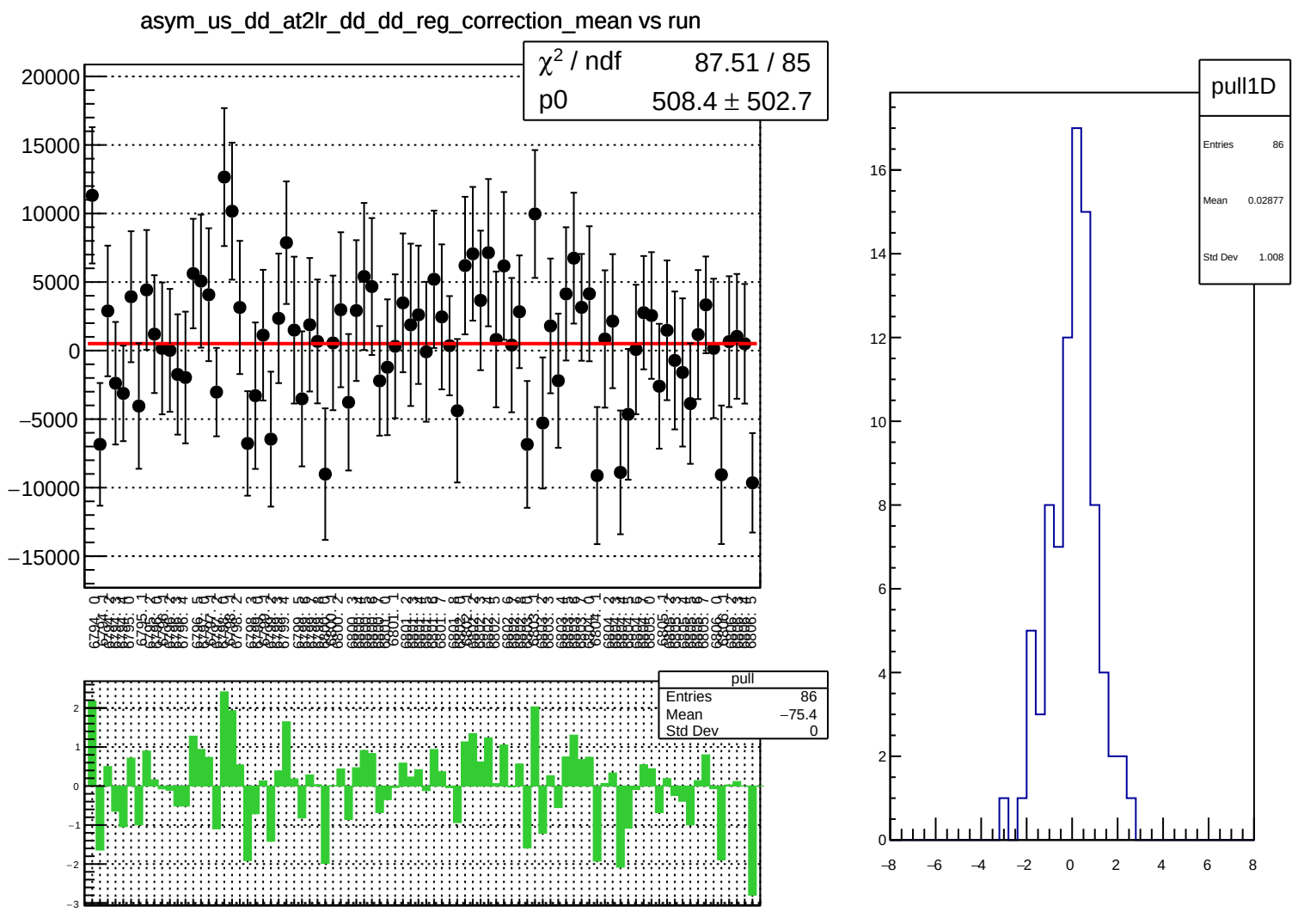

pull1D
Entries 86
Mean 0.1423
Std Dev 1.114

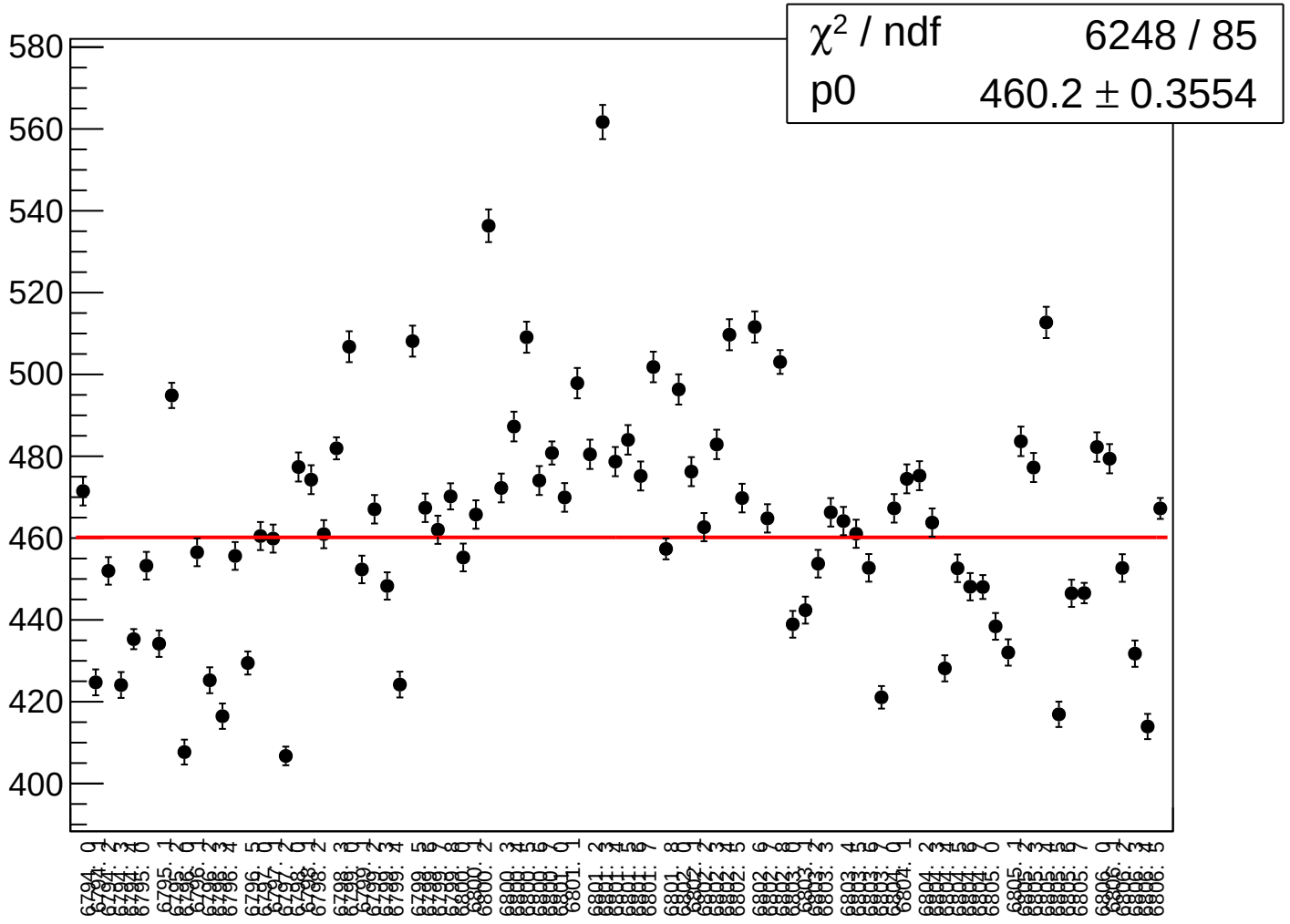

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.014e+05 / 85
p0 1.768e−11 ± 1.884e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

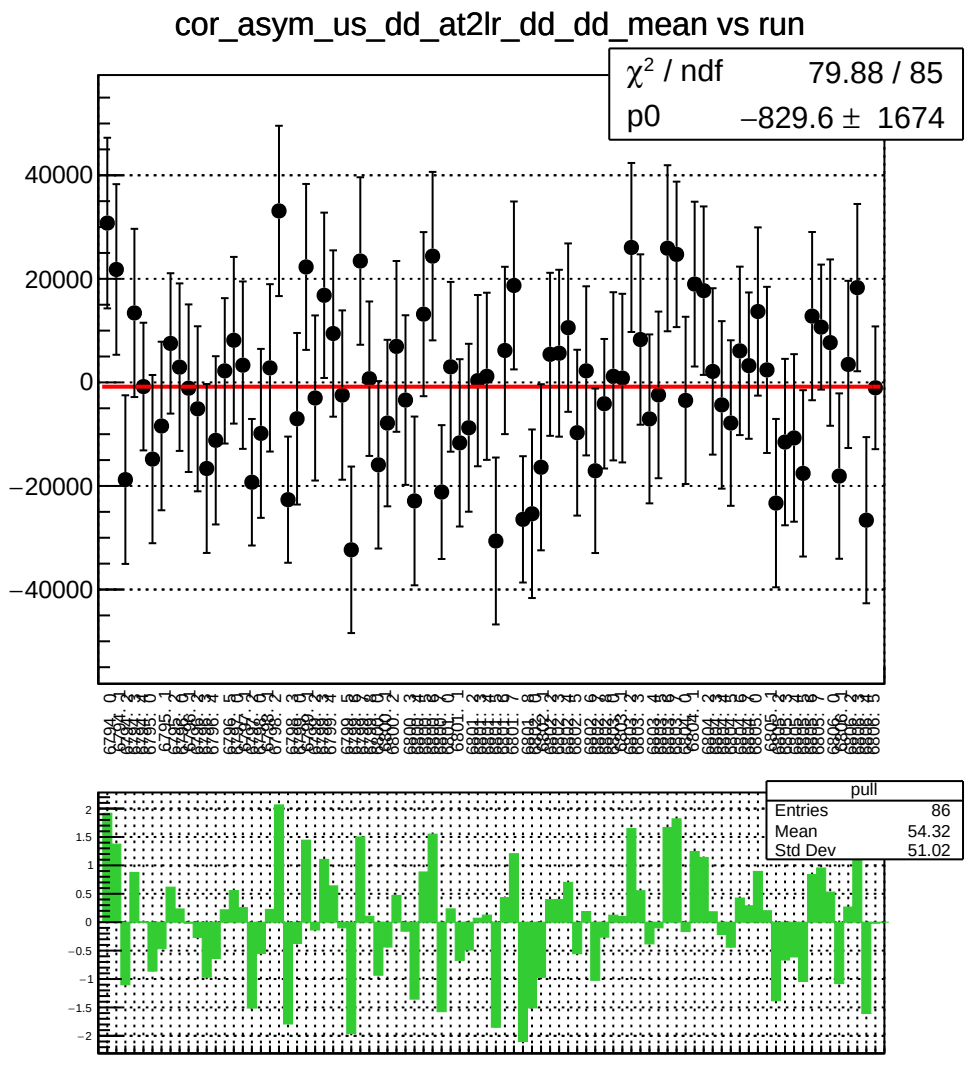

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 79.88 / 85
p0 −829.1± 1674
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 54.34
Std Dev 51.01
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

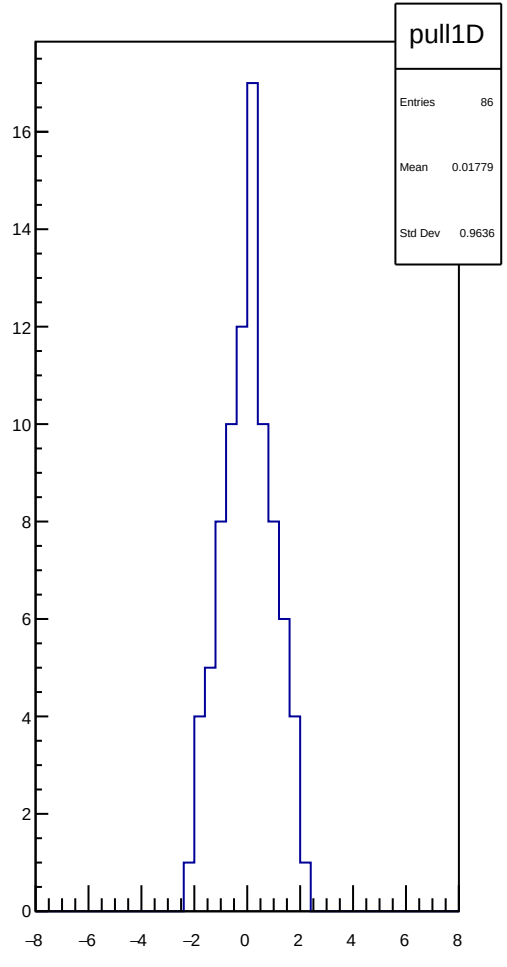

pull1D
Entries 86
Mean 0.01779
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

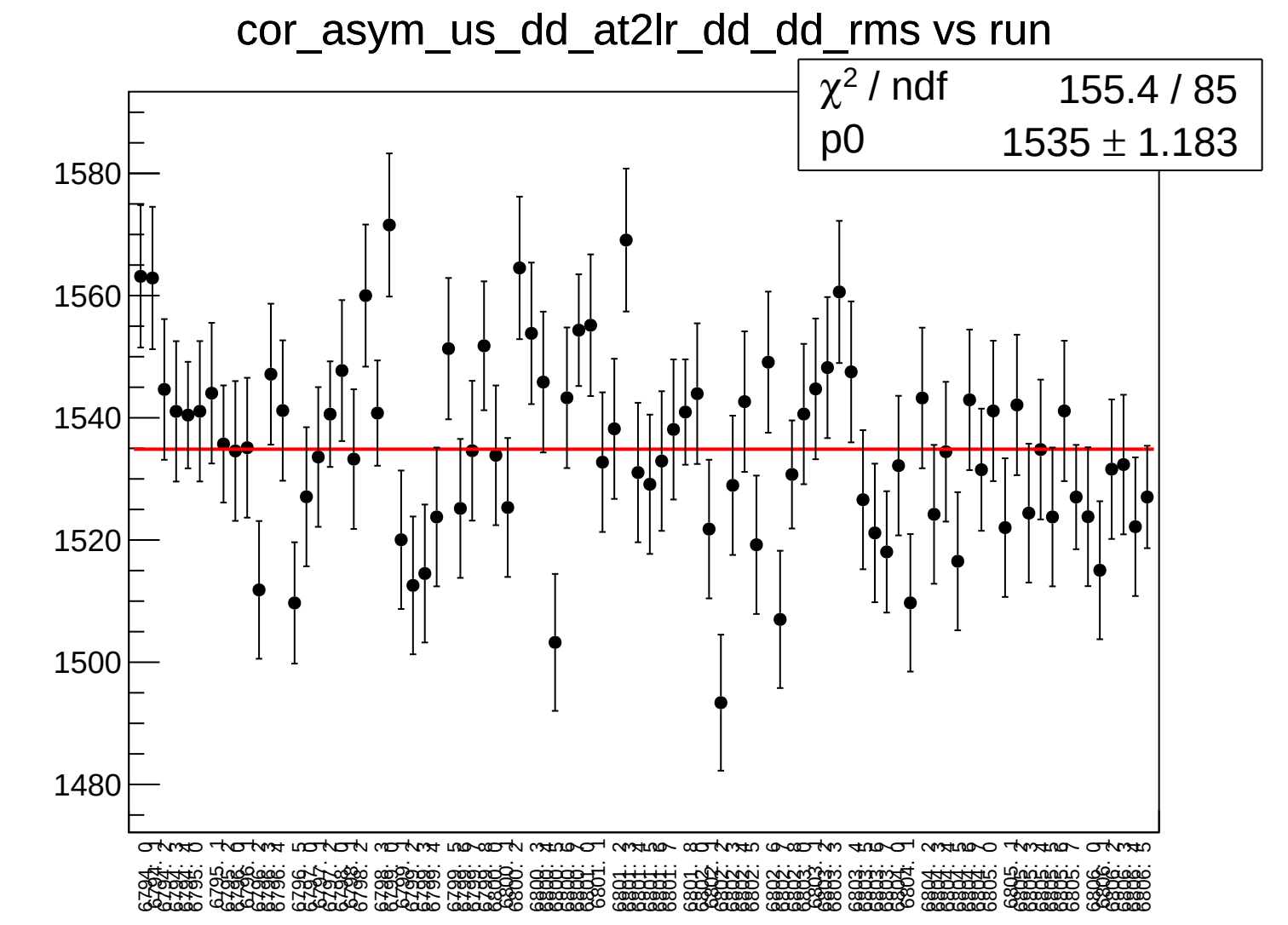

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 155.4 / 85
p0 1535 ± 1.183
1580
1560
1540
1520
1500
1480

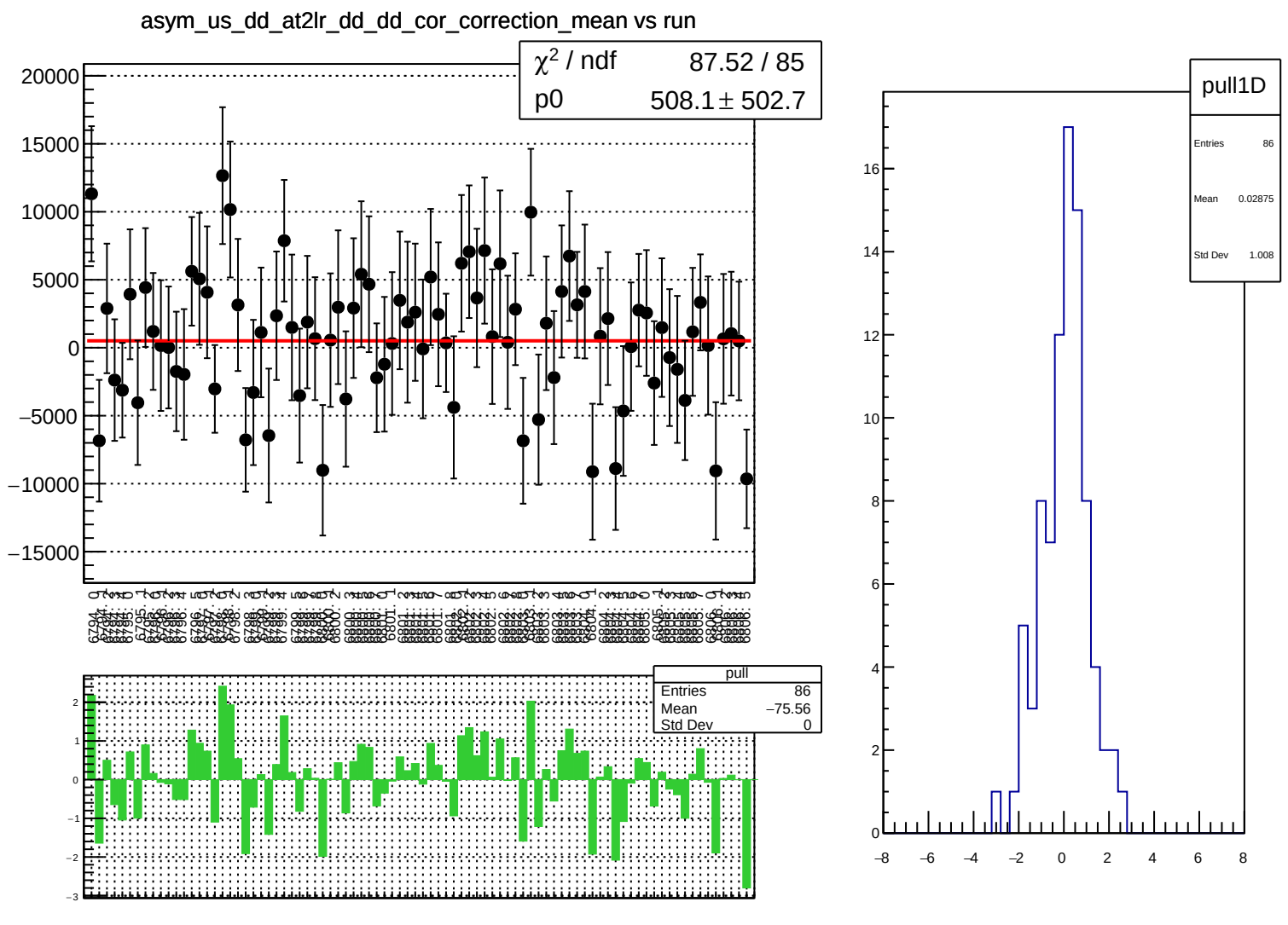

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 87.51 / 85
p0 508.4 ± 502.7
pull
Entries 86
Mean −75.4
Std Dev 0
pull1D
Entries 86
Mean 0.02877
Std Dev 1.008

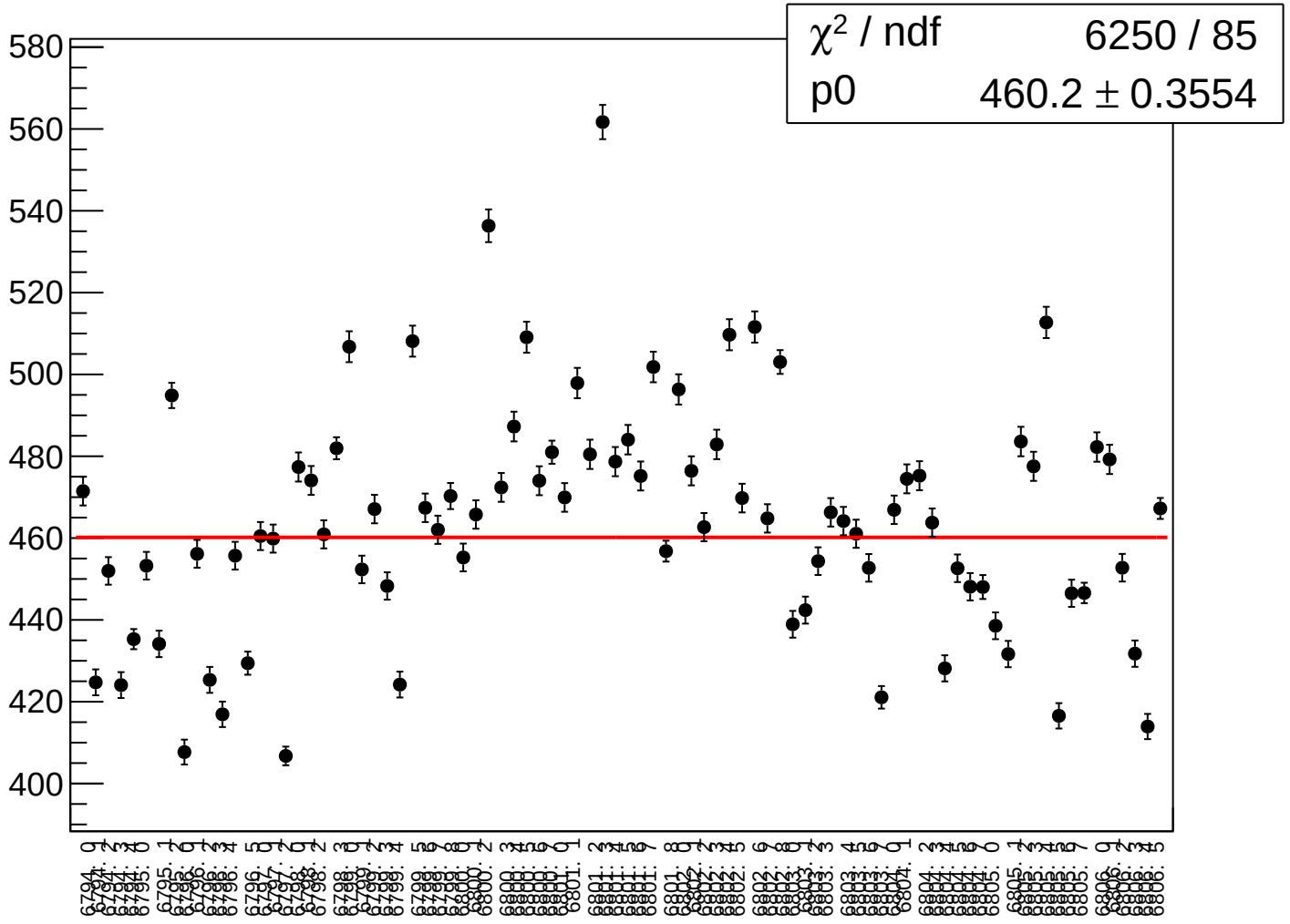

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 6248 / 85
p0 460.2 ± 0.3554
580
560
540
520
500
480
460
440
420
400

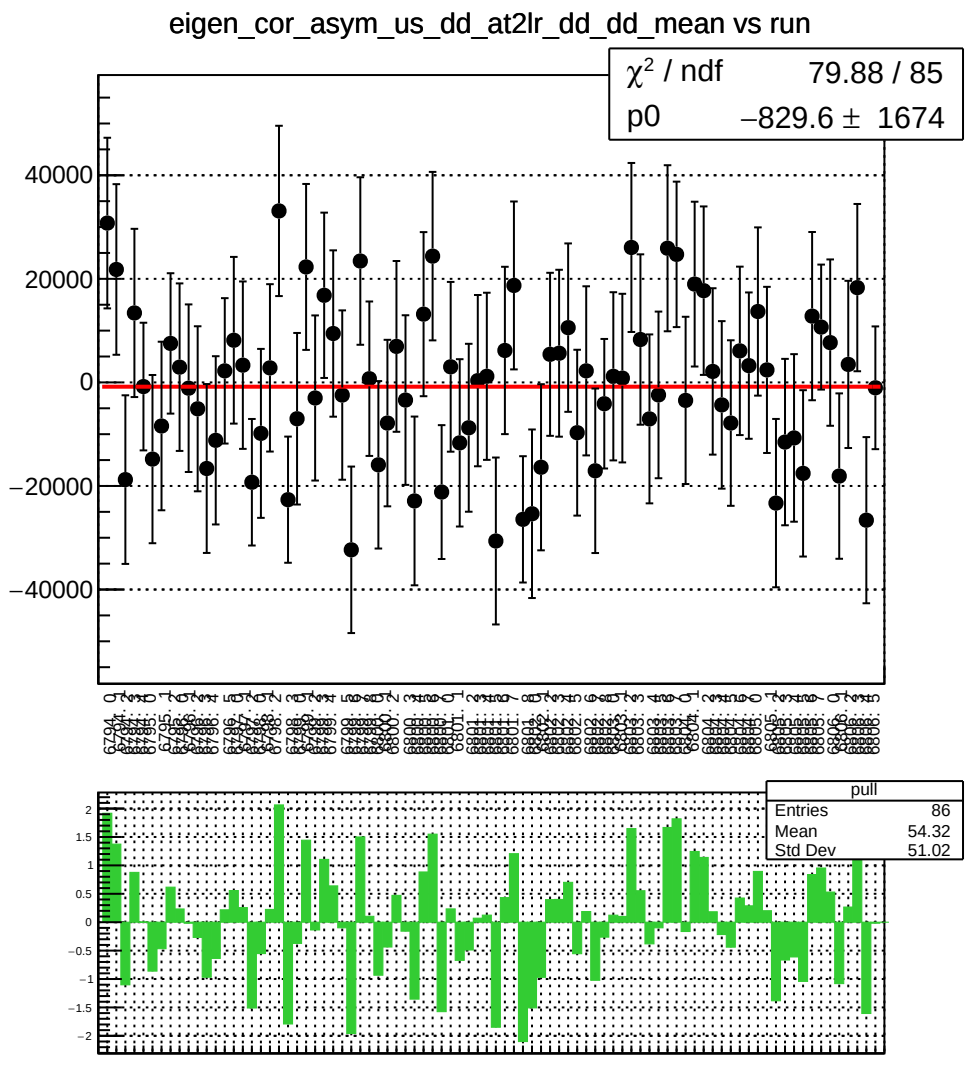

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 79.88 / 85
p0 −829.6 ± 1674
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 54.32
Std Dev 51.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

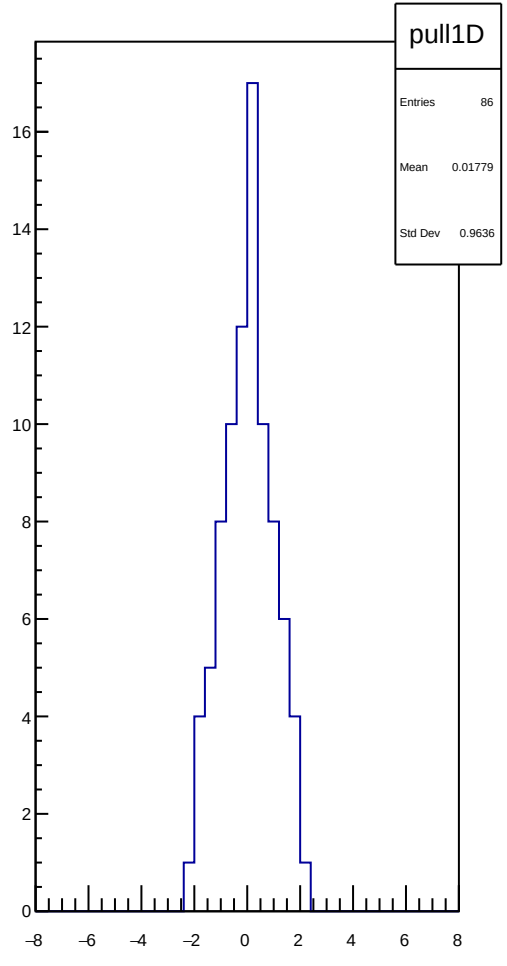

pull1D
Entries 86
Mean 0.01779
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

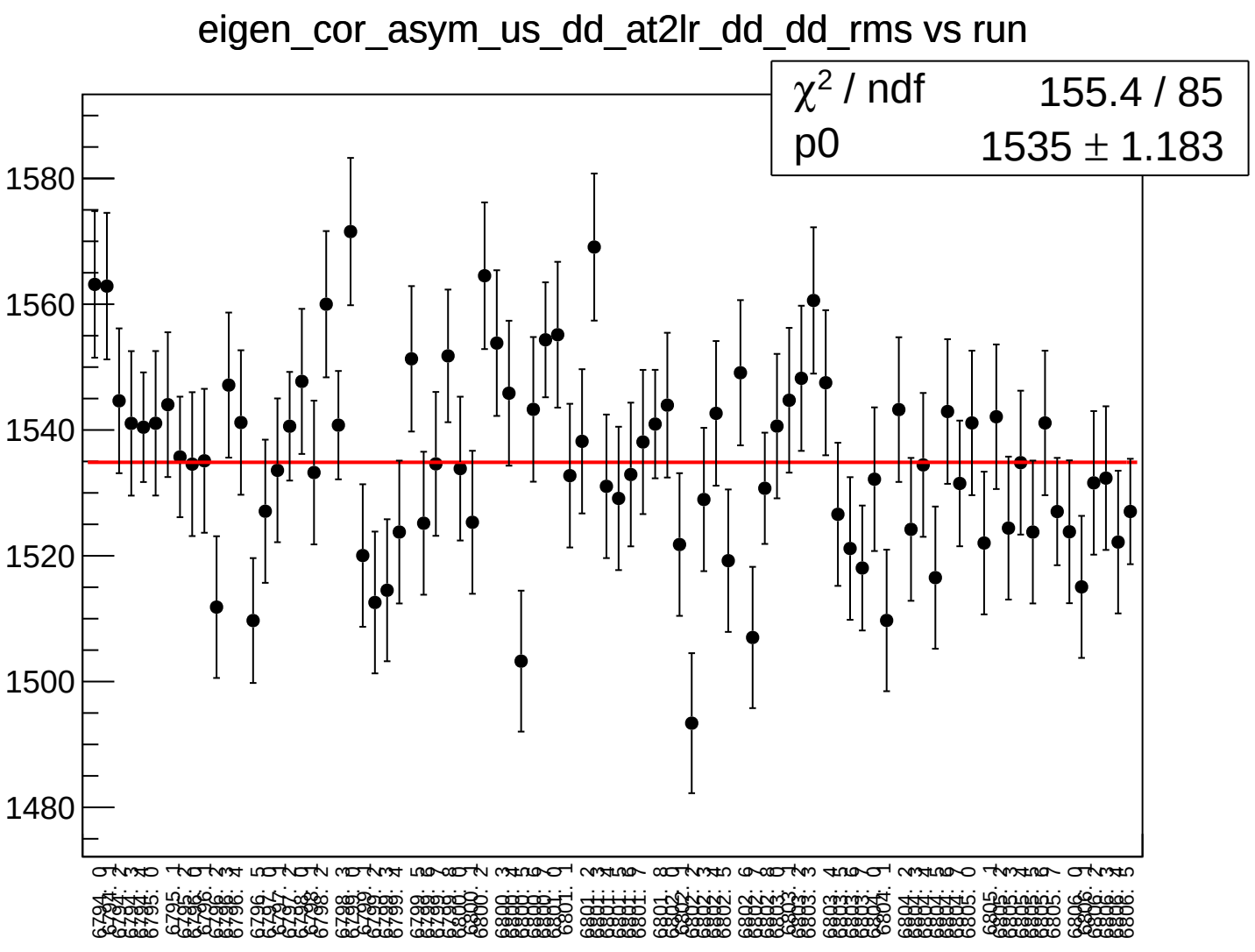

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 155.4 / 85
p0 1535 ± 1.183
1580
1560
1540
1520
1500
1480

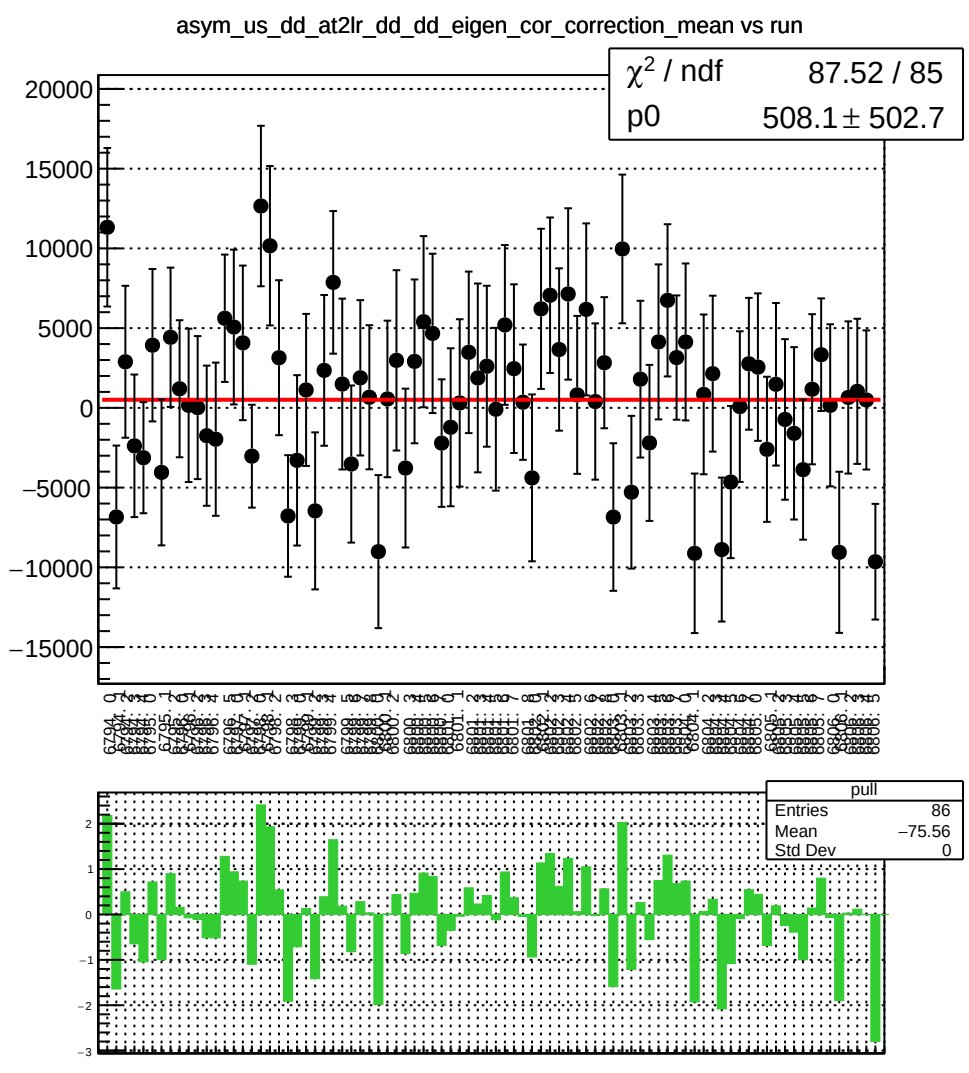

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 87.52 / 85
p0 508.1 ± 502.7
pull
Entries 86
Mean −75.56
Std Dev 0
pull1D
Entries 86
Mean 0.02875
Std Dev 1.008

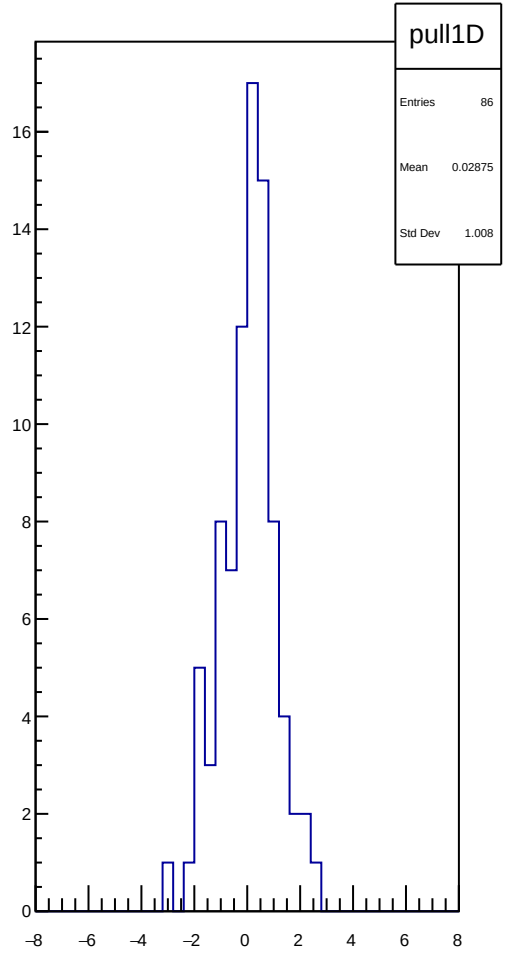

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 6250 / 85
p0 460.2 ± 0.3554
580
560
540
520
500
480
460
440
420
400

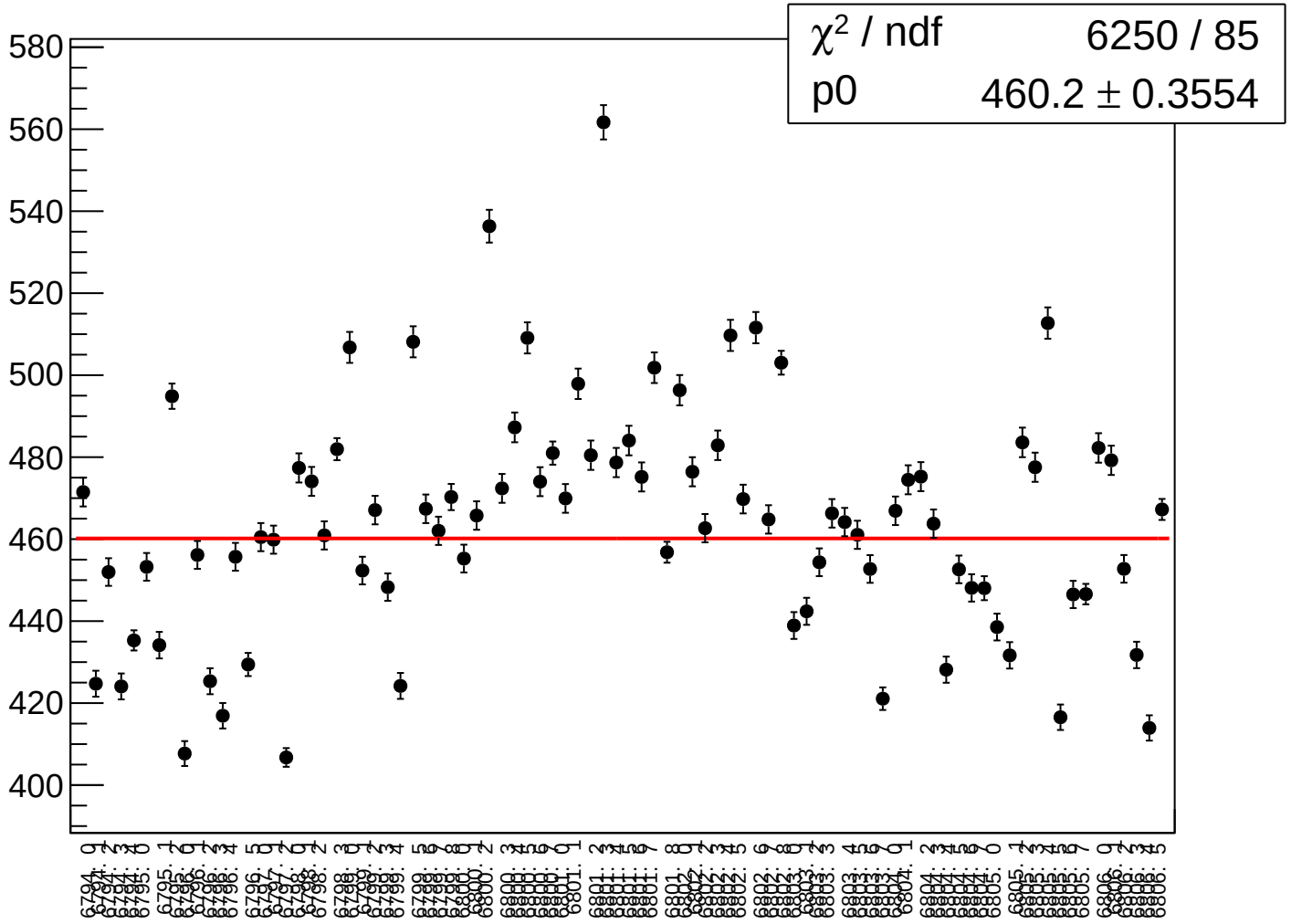

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 79.88 / 85
p0 −829.6 ± 1674
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 54.32
Std Dev 51.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

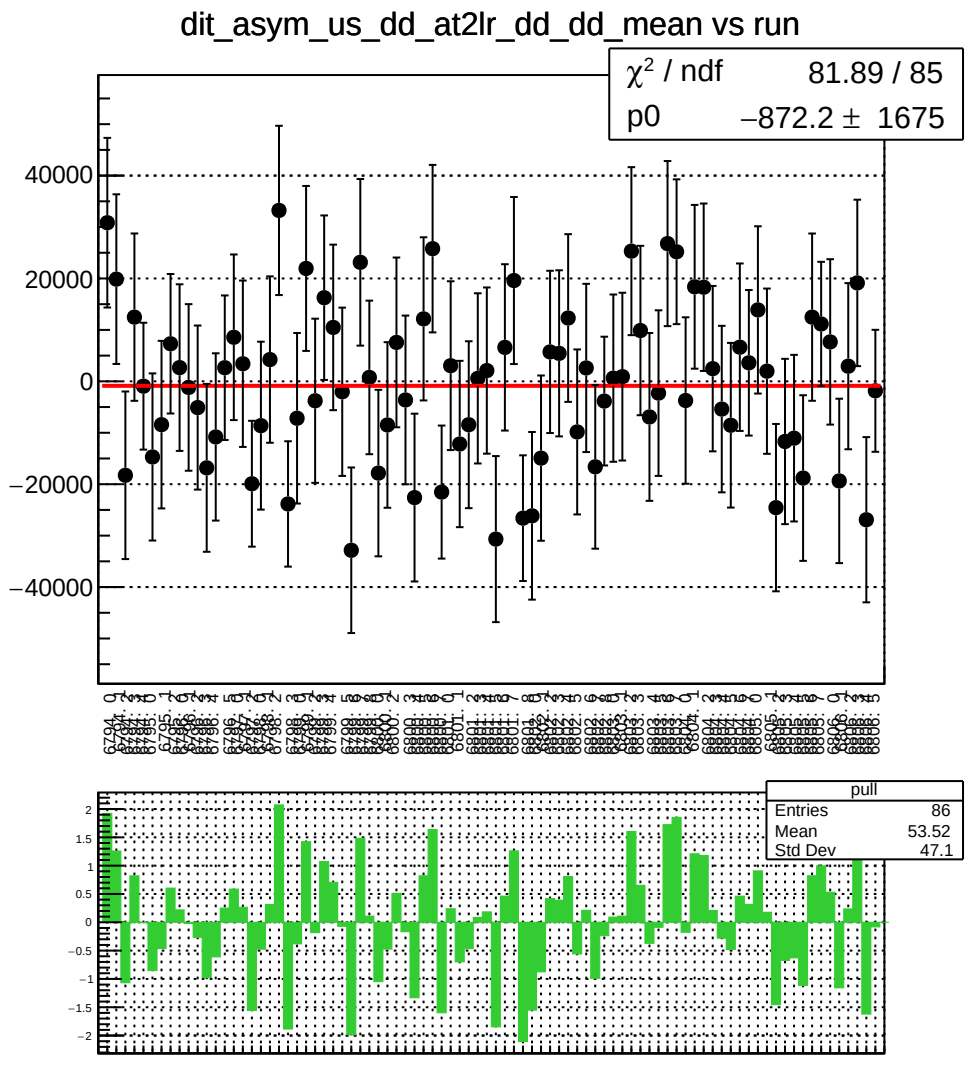

pull1D
Entries 86
Mean 0.01779
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

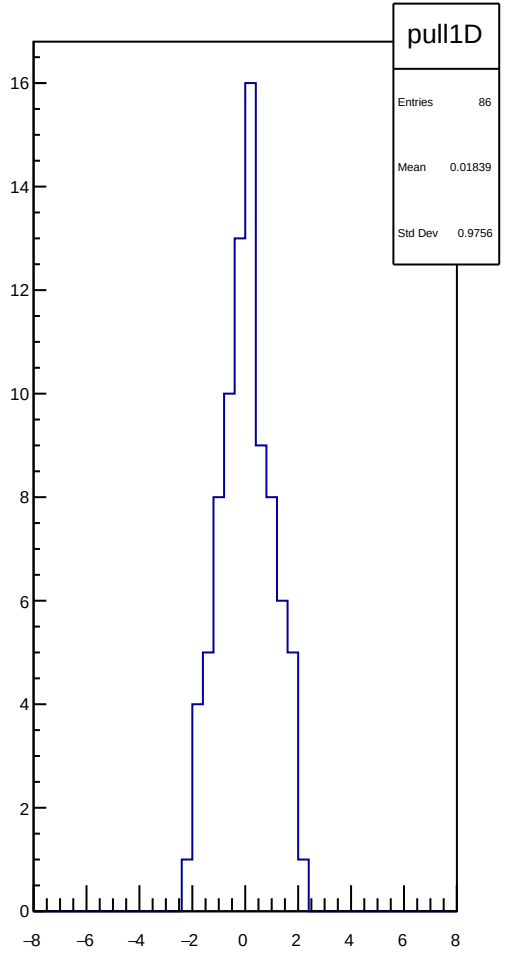

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 155.4 / 85
p0 1535 ± 1.183
1580
1560
1540
1520
1500
1480

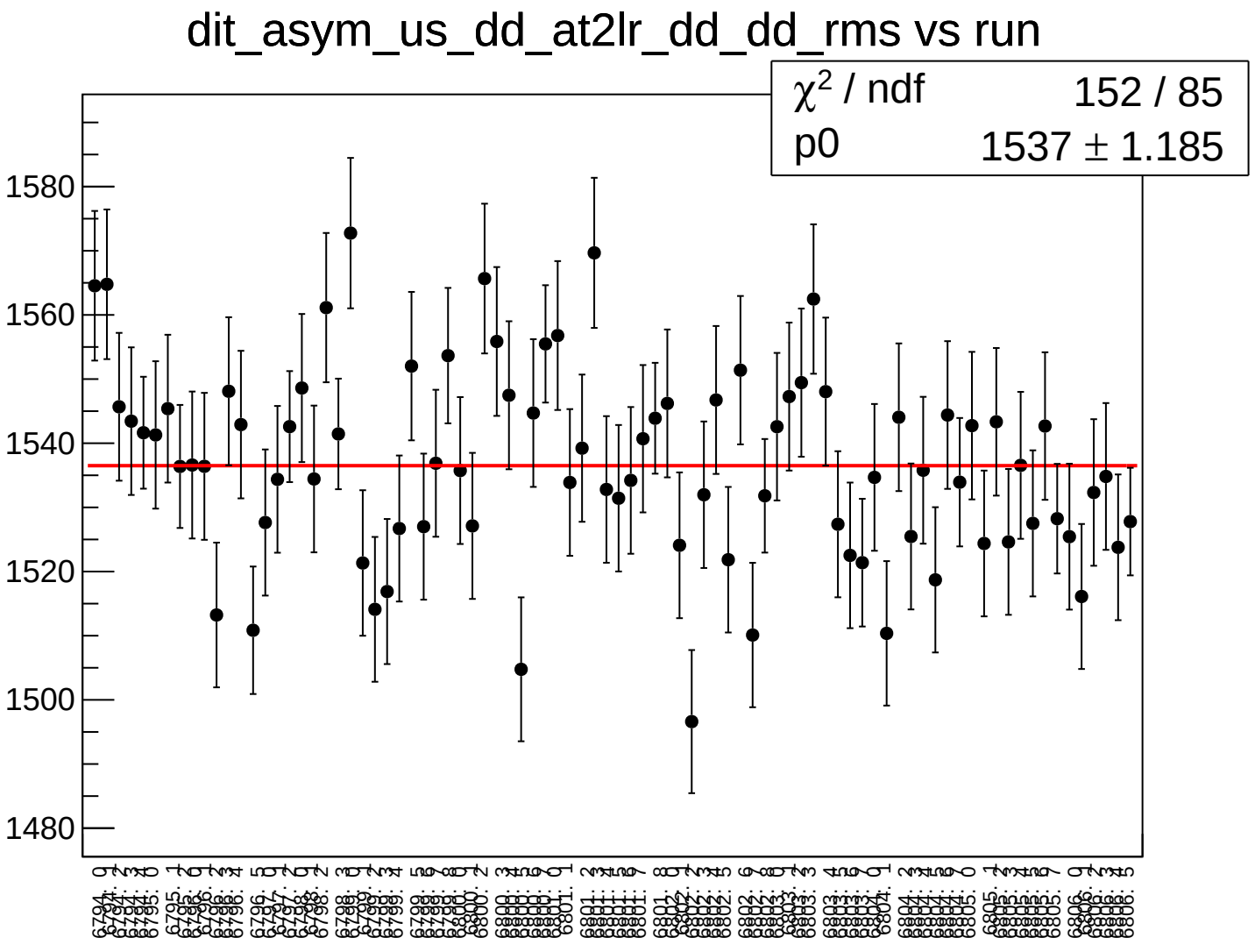

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.52 / 85
p0 508.1 ± 502.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −75.56
Std Dev 0
2
1
0
−1
−2
−3

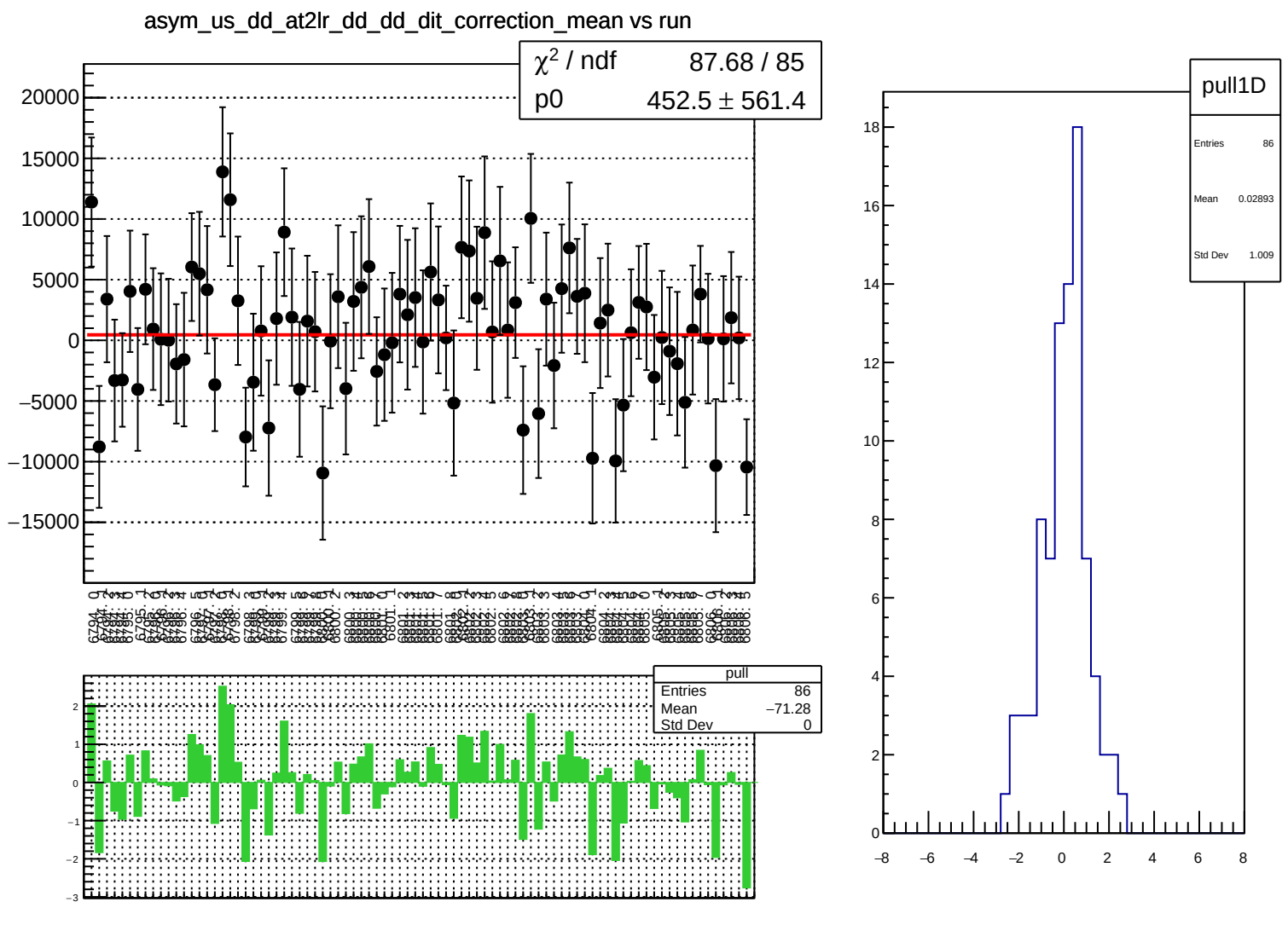

pull1D
Entries 86
Mean 0.02875
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

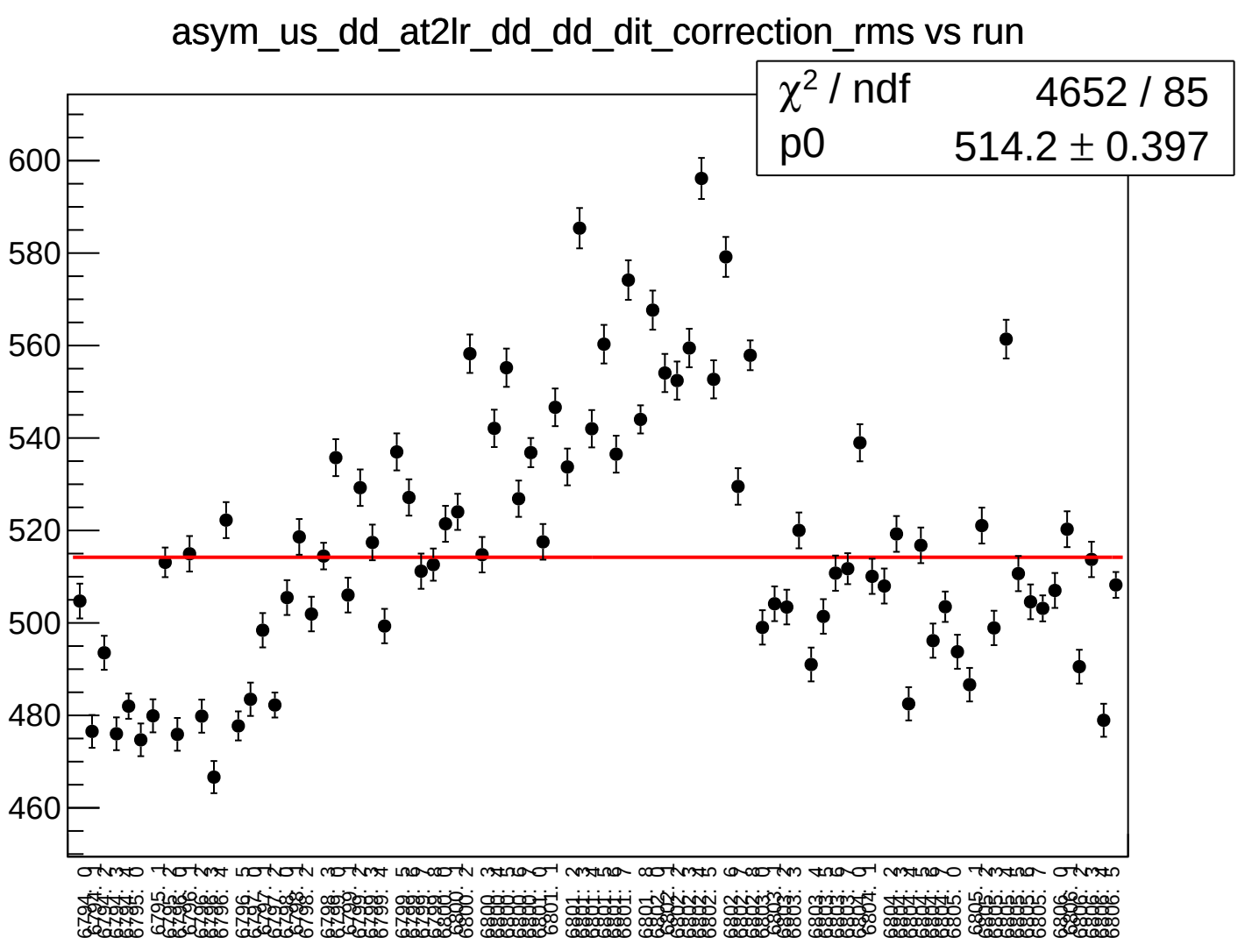

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 6250 / 85
p0 460.2 ± 0.3554
580
560
540
520
500
480
460
440
420
400

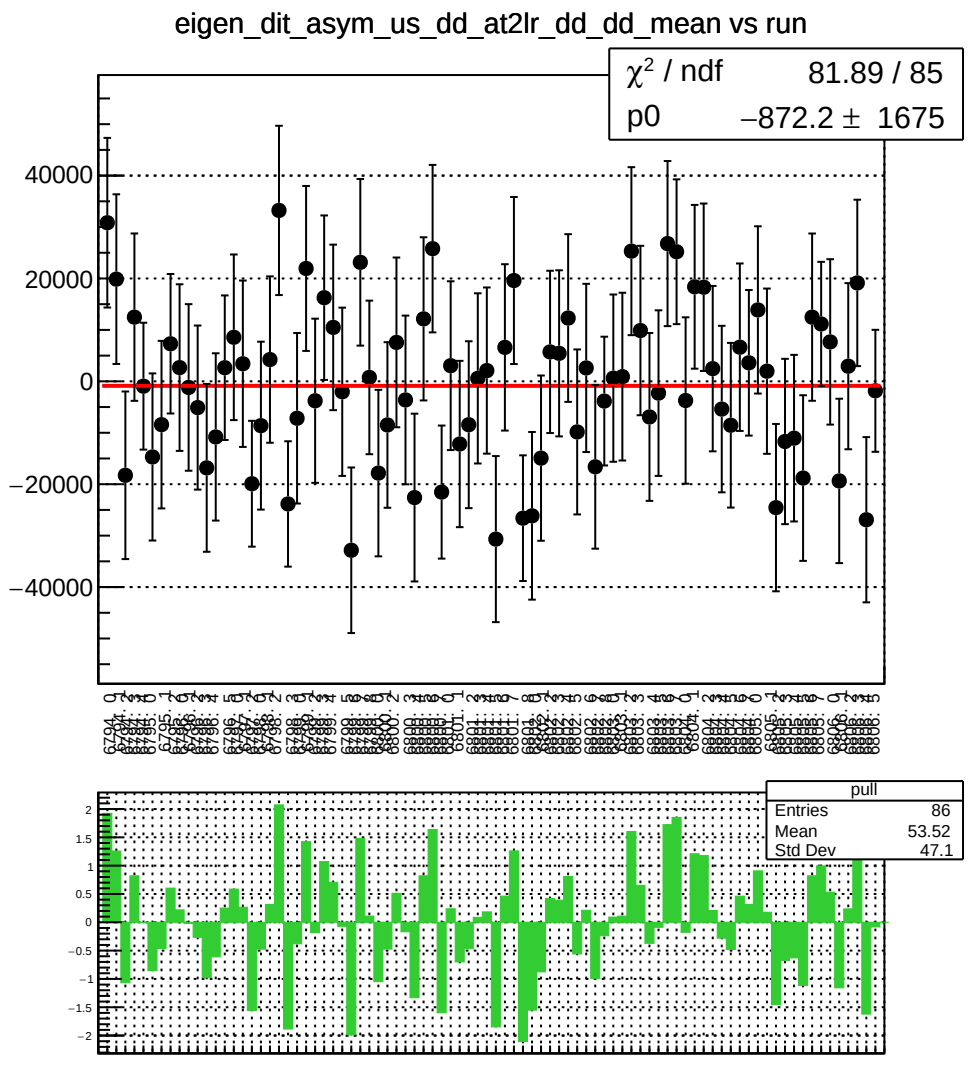

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 81.89 / 85
p0 −872.2 ± 1675
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.52
Std Dev 47.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

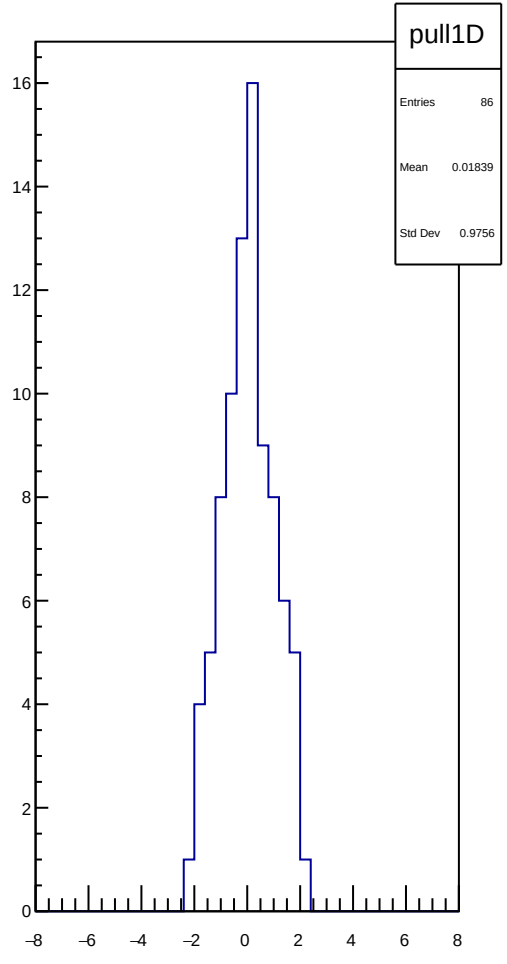

pull1D
Entries 86
Mean 0.01839
Std Dev 0.9756
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

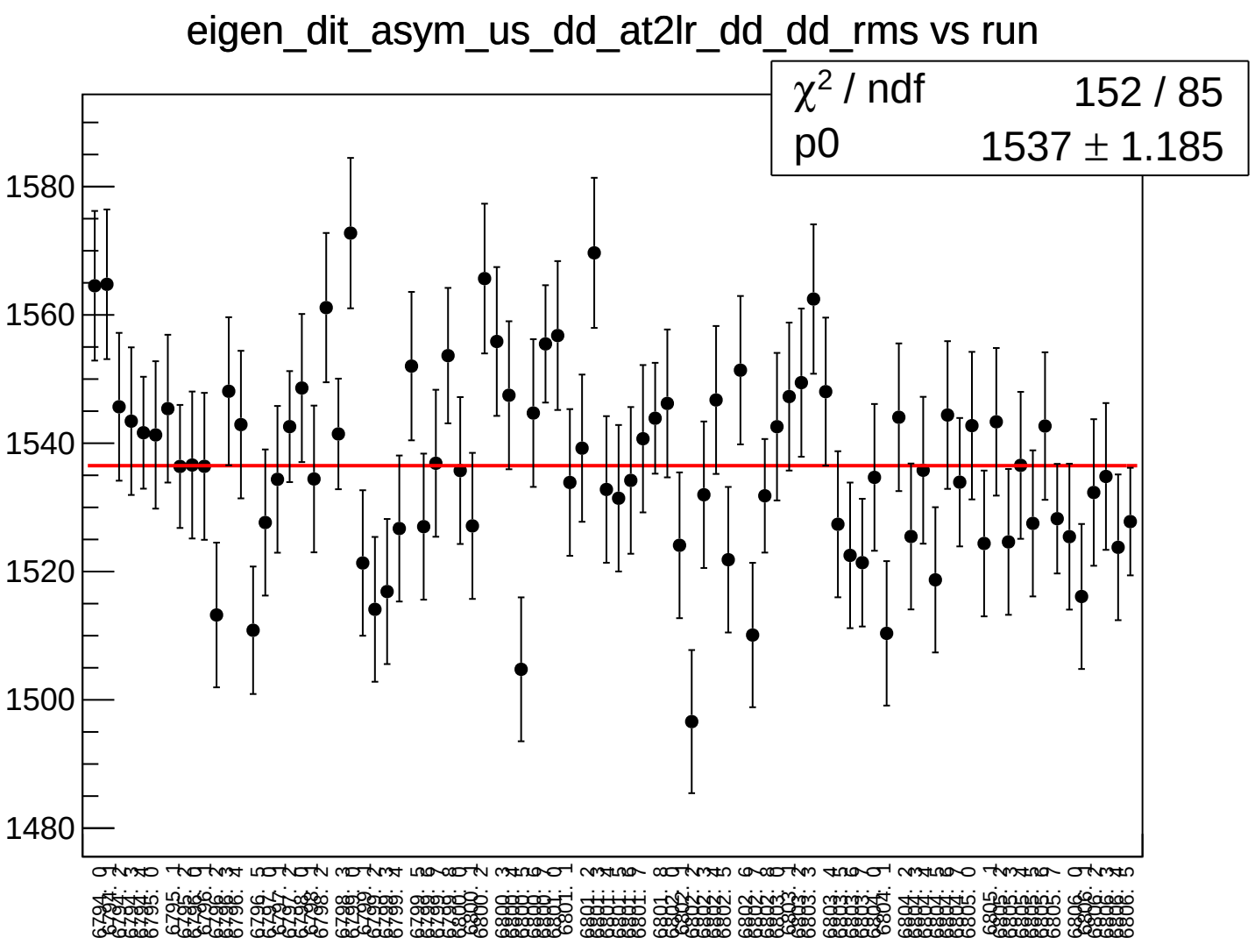

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 152 / 85
p0 1537 ± 1.185
1580
1560
1540
1520
1500
1480

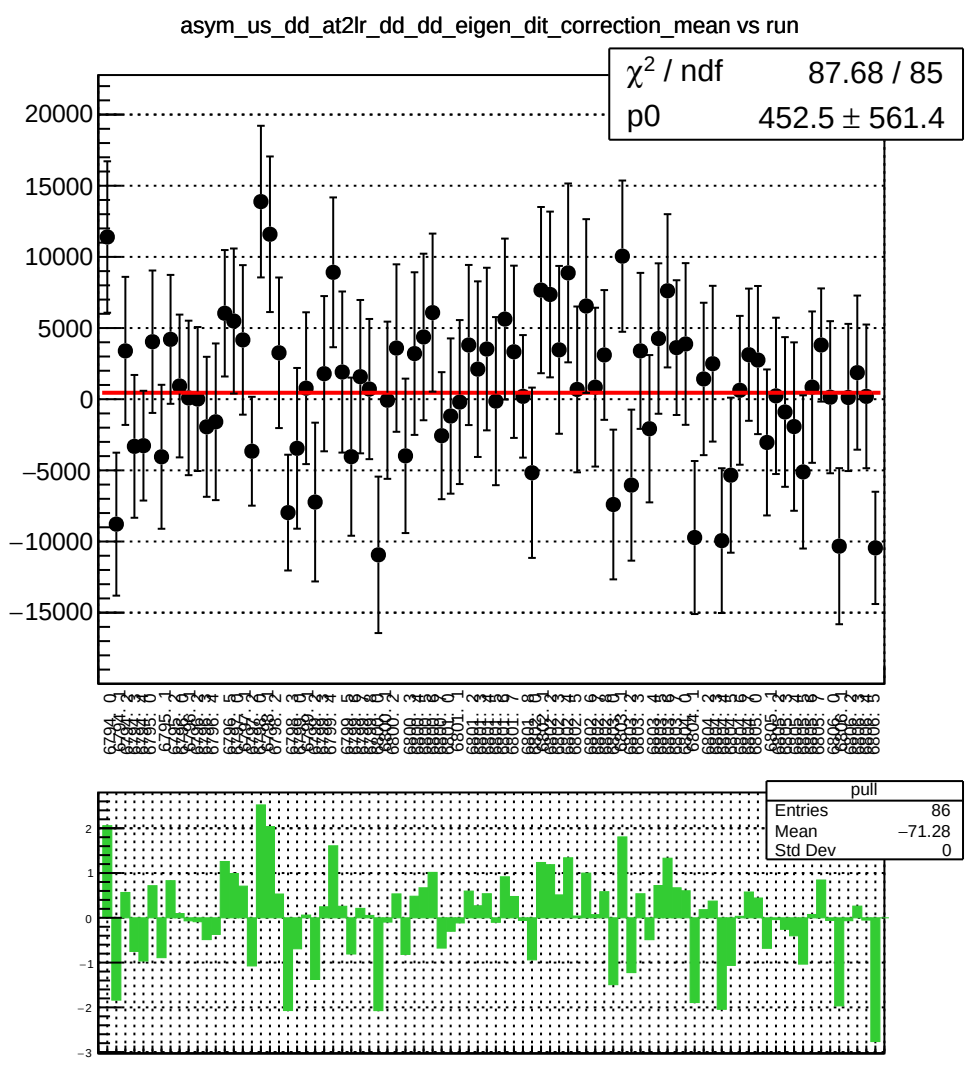

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 87.68 / 85
p0 452.5 ± 561.4
pull
Entries 86
Mean −71.28
Std Dev 0
pull1D
Entries 86
Mean 0.02893
Std Dev 1.009

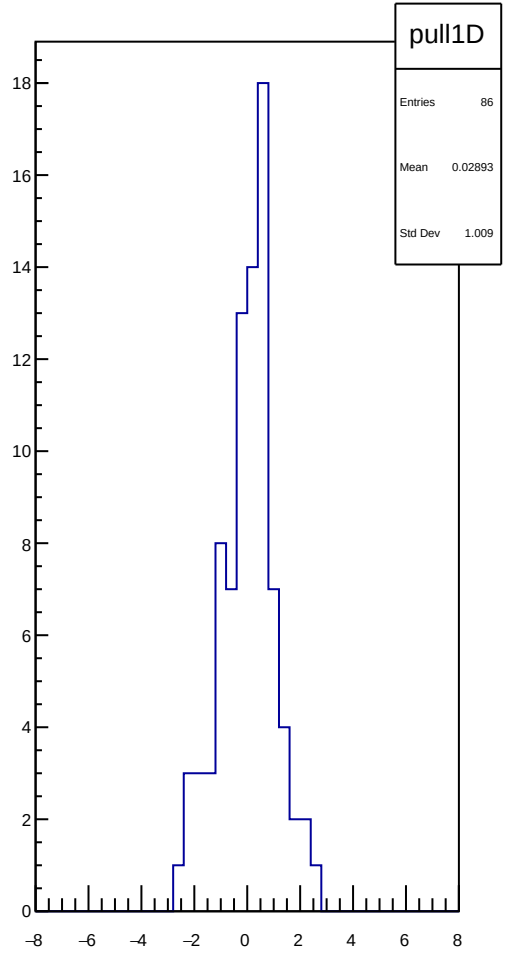

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 4652 / 85
p0 514.2 ± 0.397
600
580
560
540
520
500
480
460

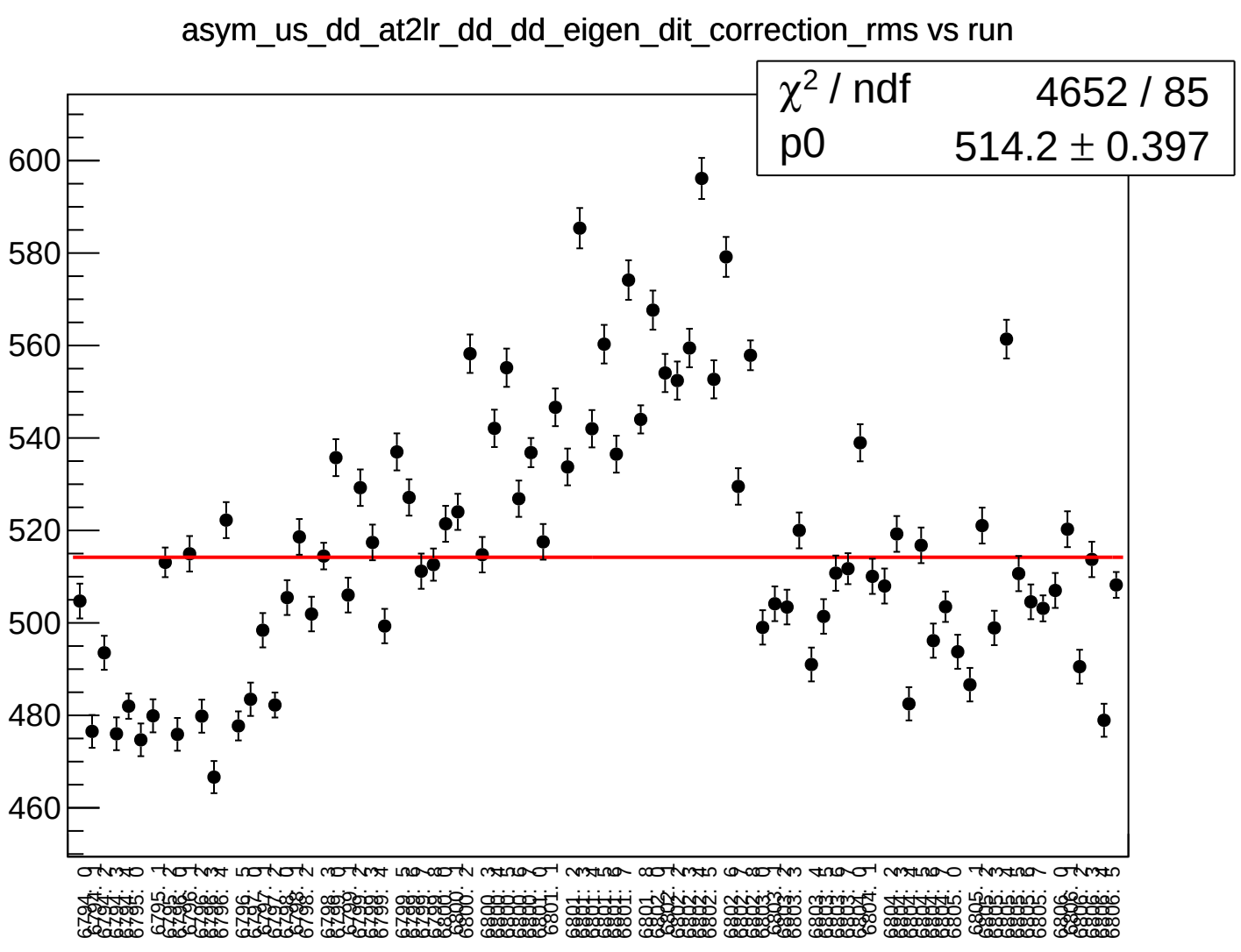

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 81.89 / 85
p0 −872.2 ± 1675
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 53.52
Std Dev 47.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

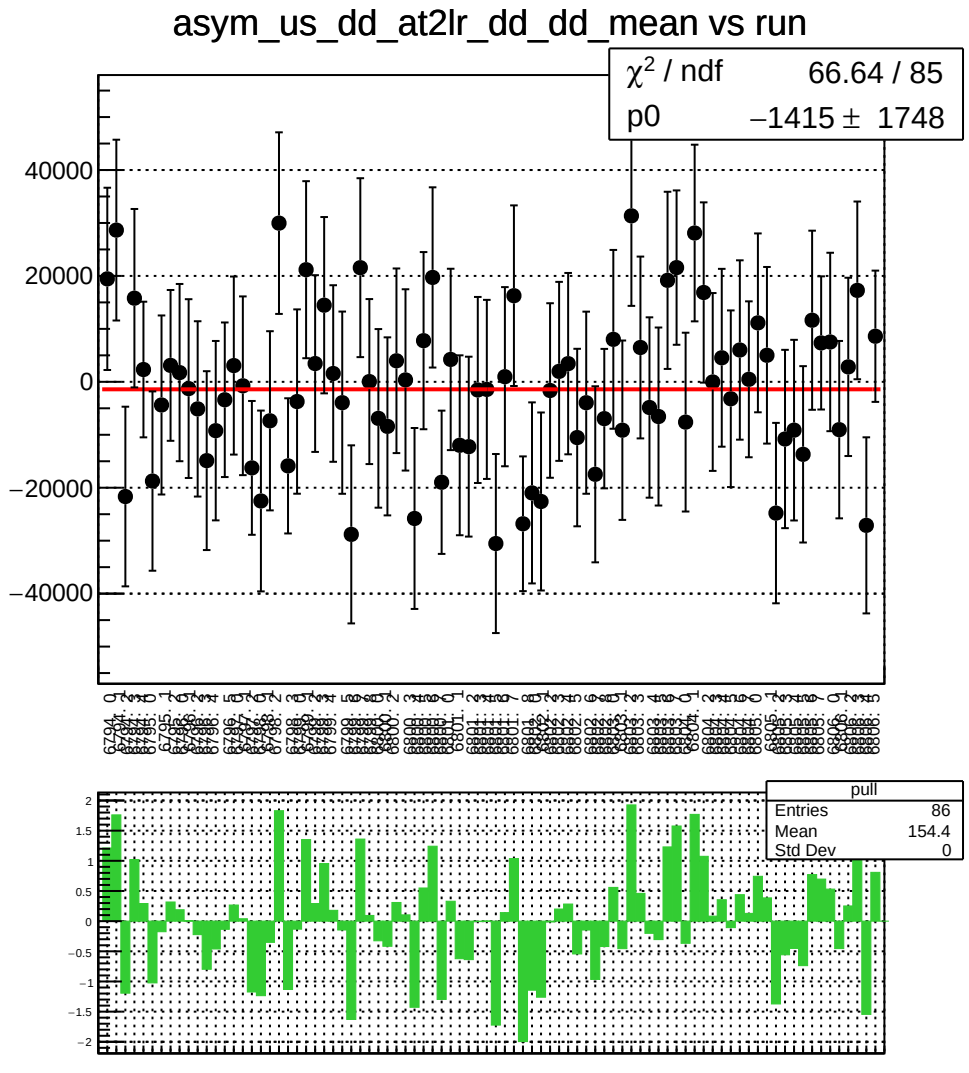

pull1D
Entries 86
Mean 0.01839
Std Dev 0.9756
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

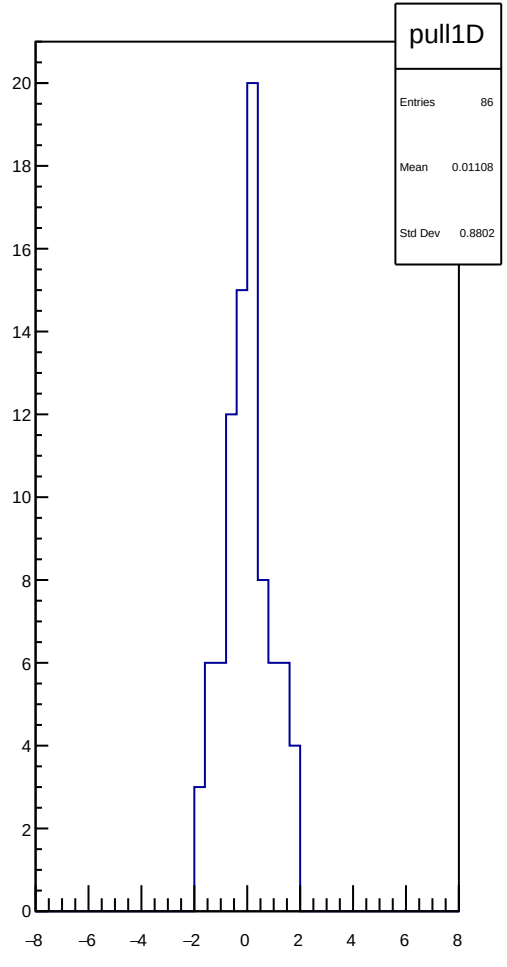

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 152 / 85
p0 1537 ± 1.185
1580
1560
1540
1520
1500
1480

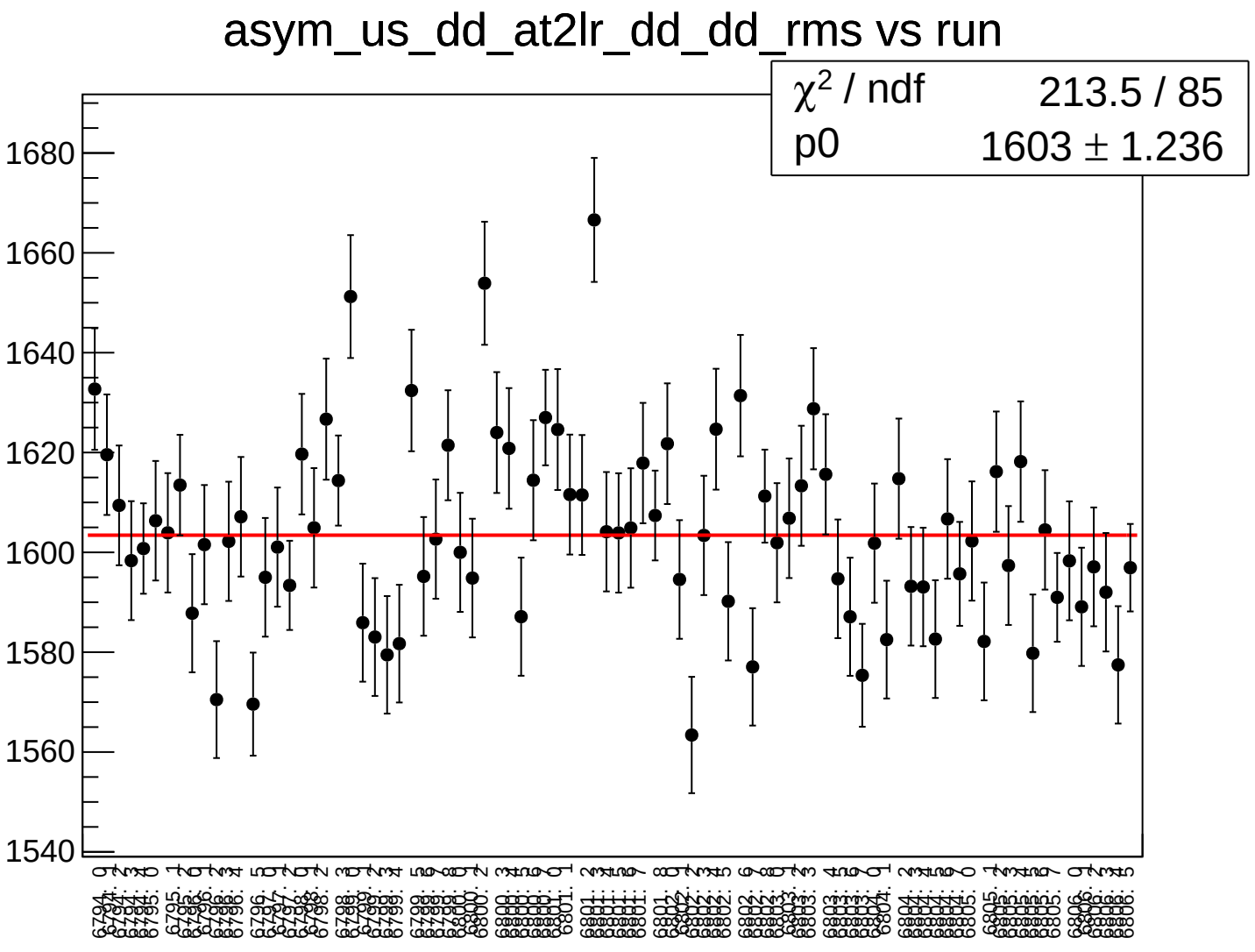

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.68 / 85
p0 452.5 ± 561.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −71.28
Std Dev 0
2
1
0
−1
−2
−3

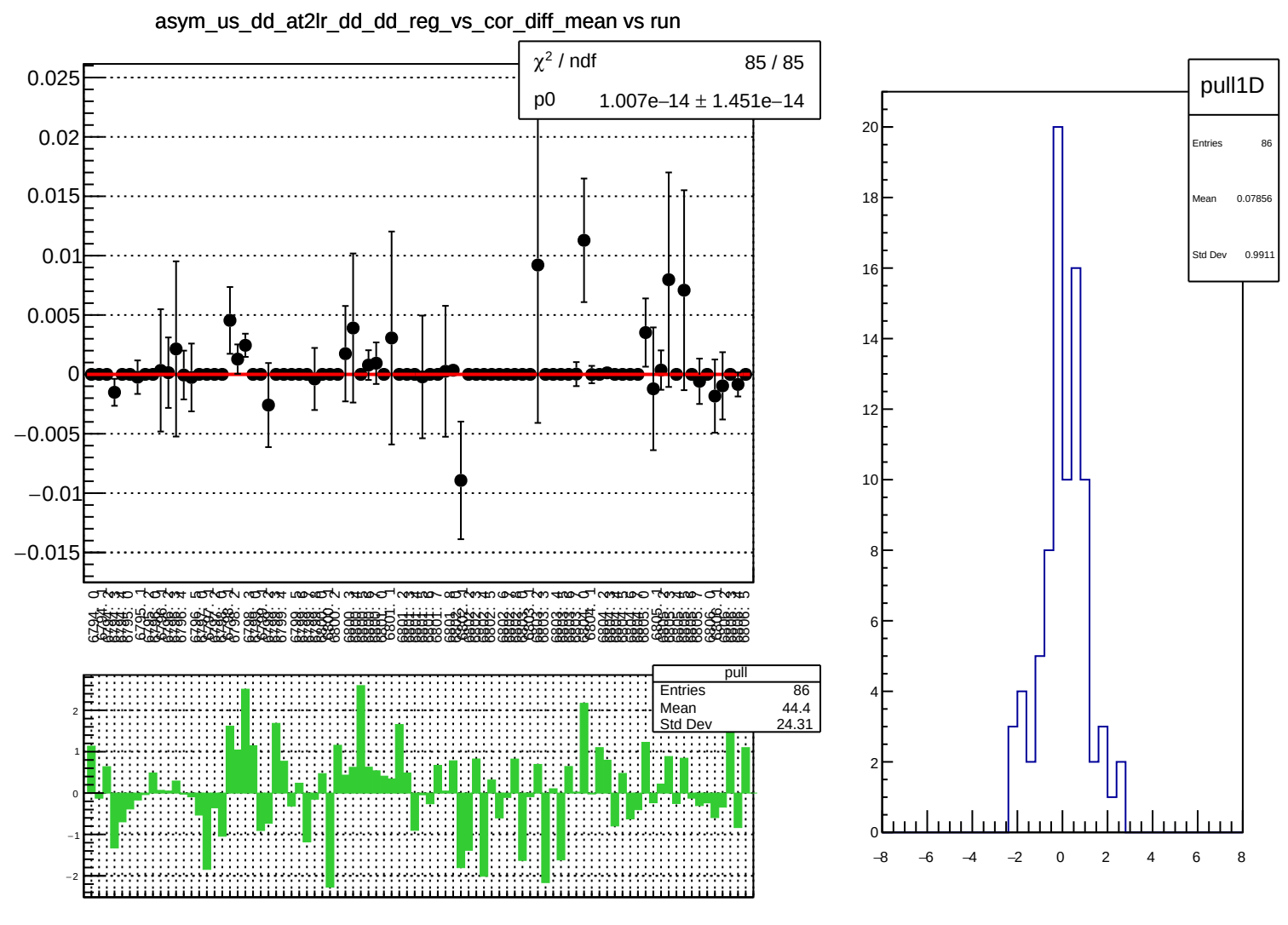

pull1D
Entries 86
Mean 0.02893
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

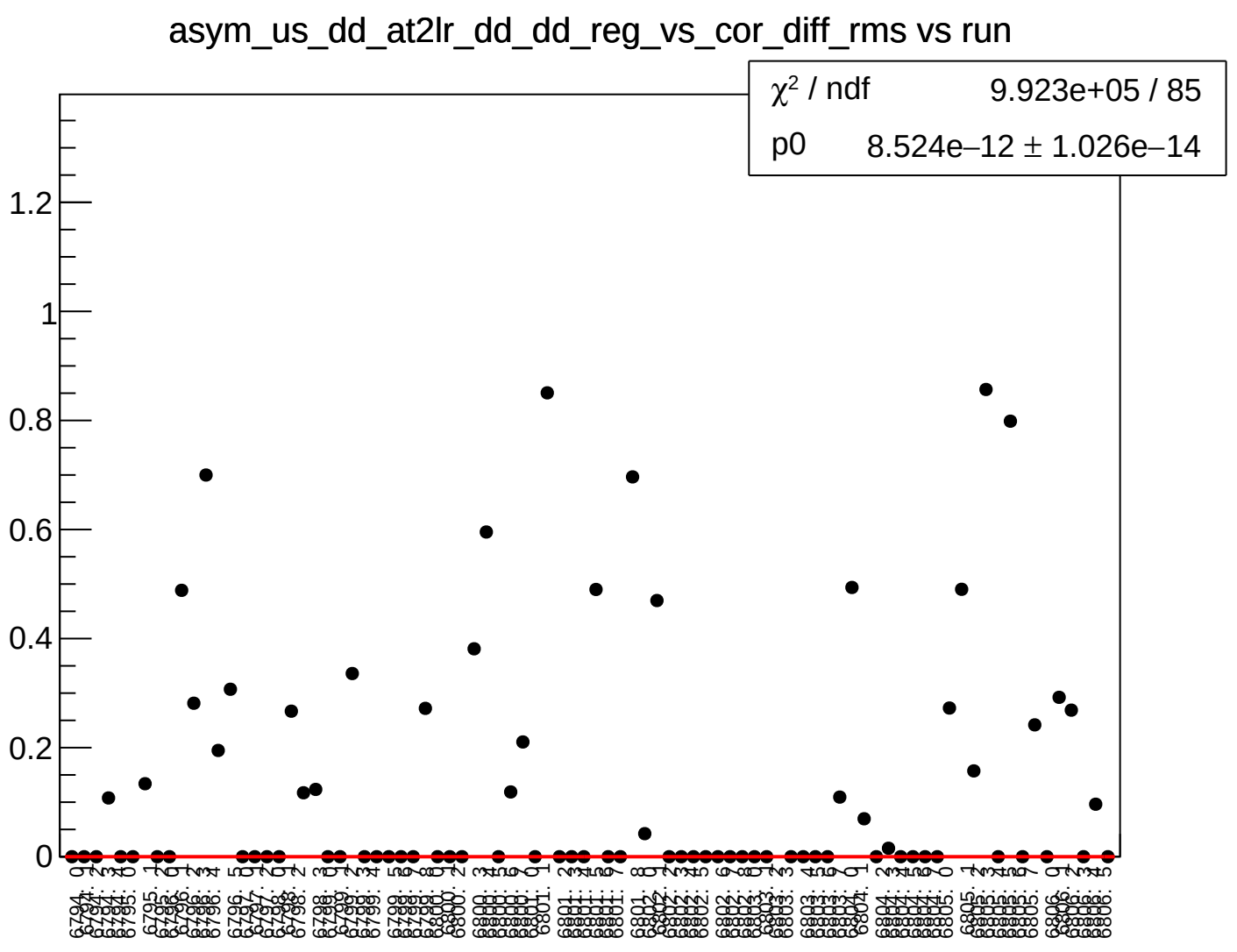

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 4652 / 85
p0 514.2 ± 0.397
600
580
560
540
520
500
480
460

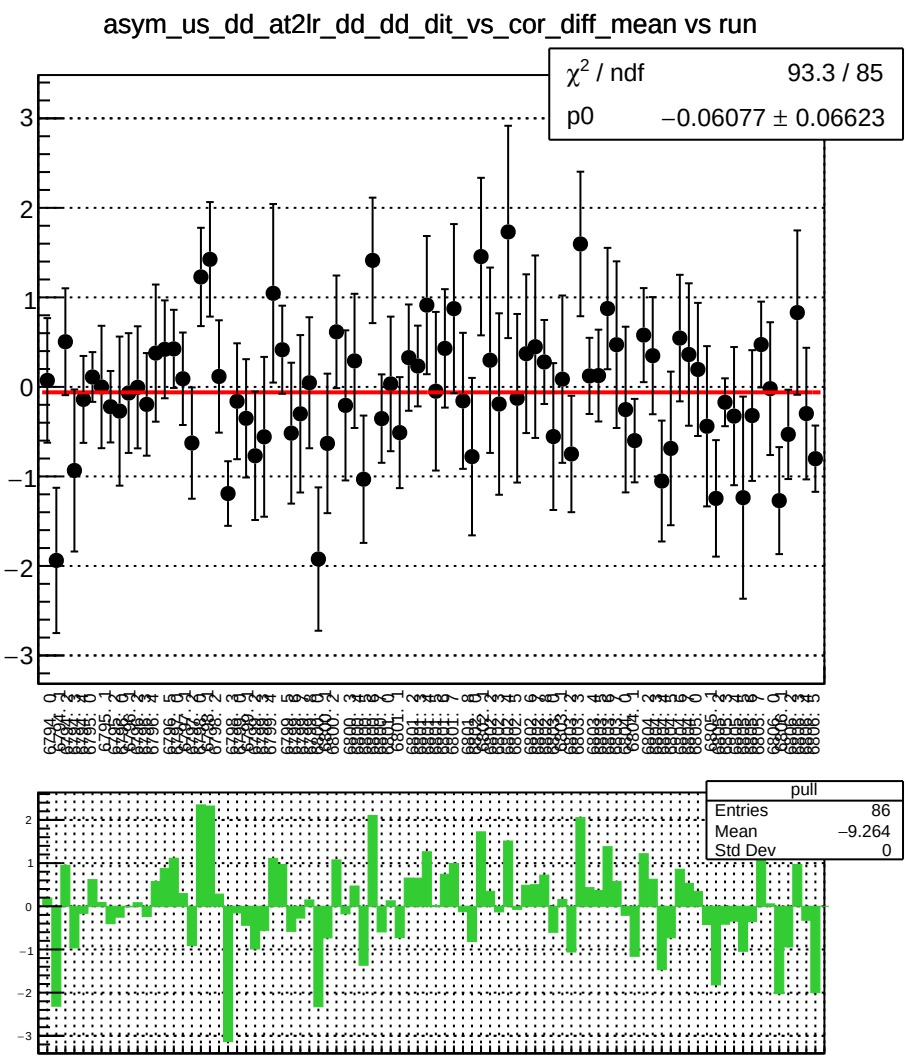

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 66.64 / 85
p0 −1415 ± 1748
40000
20000
0
−20000
−40000
pull
Entries 86
Mean 154.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

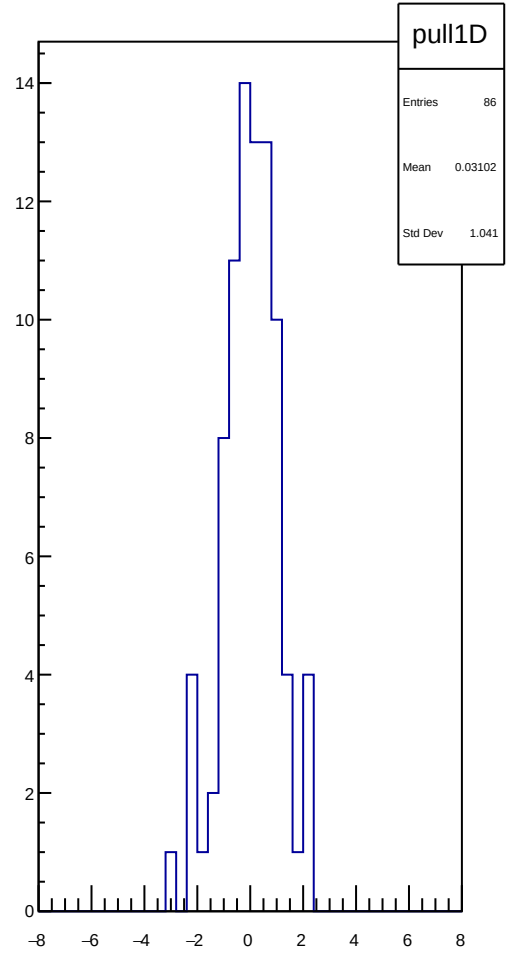

pull1D
Entries 86
Mean 0.01108
Std Dev 0.8802
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

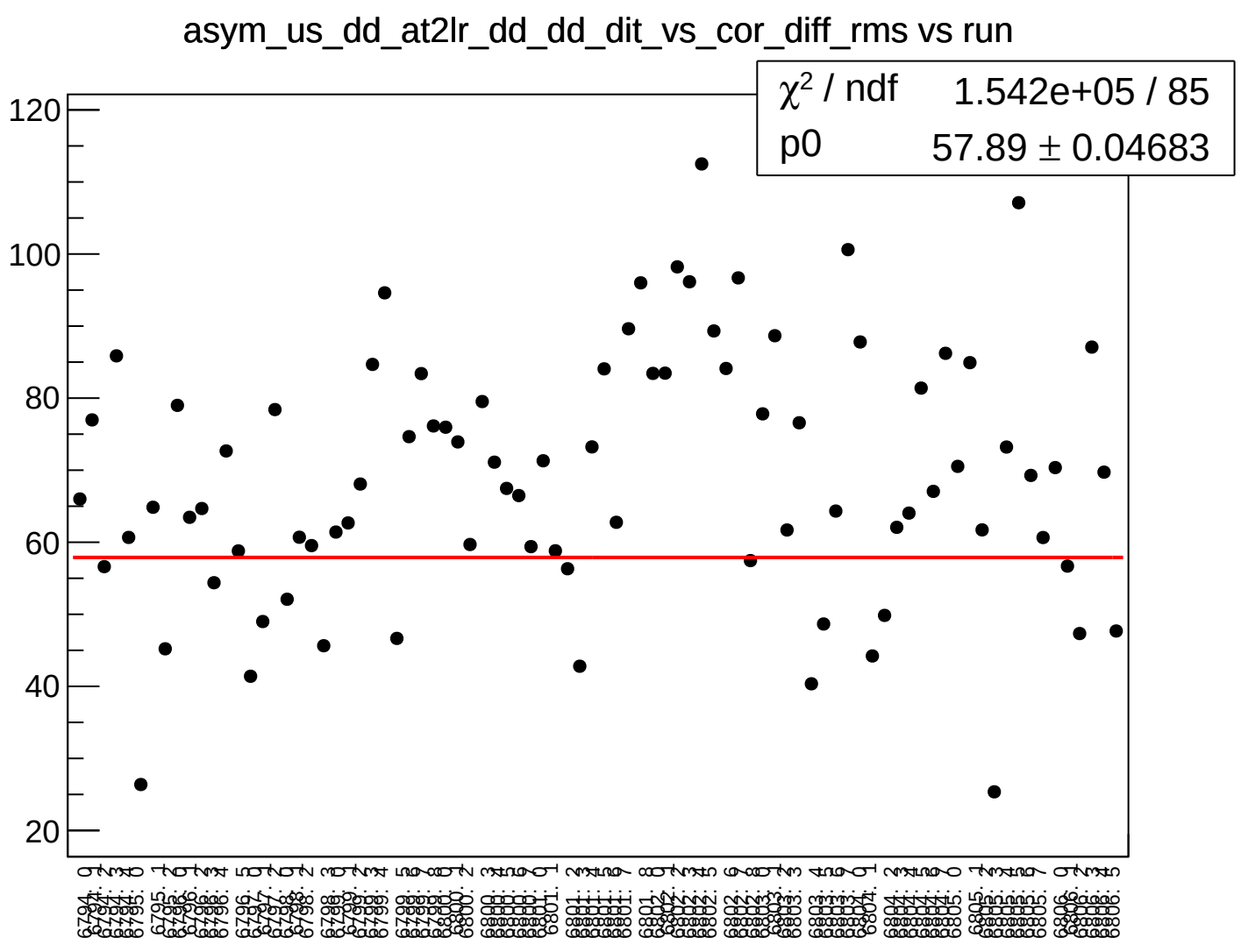

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 213.5 / 85
p0 1603 ± 1.236
1680
1660
1640
1620
1600
1580
1560
1540

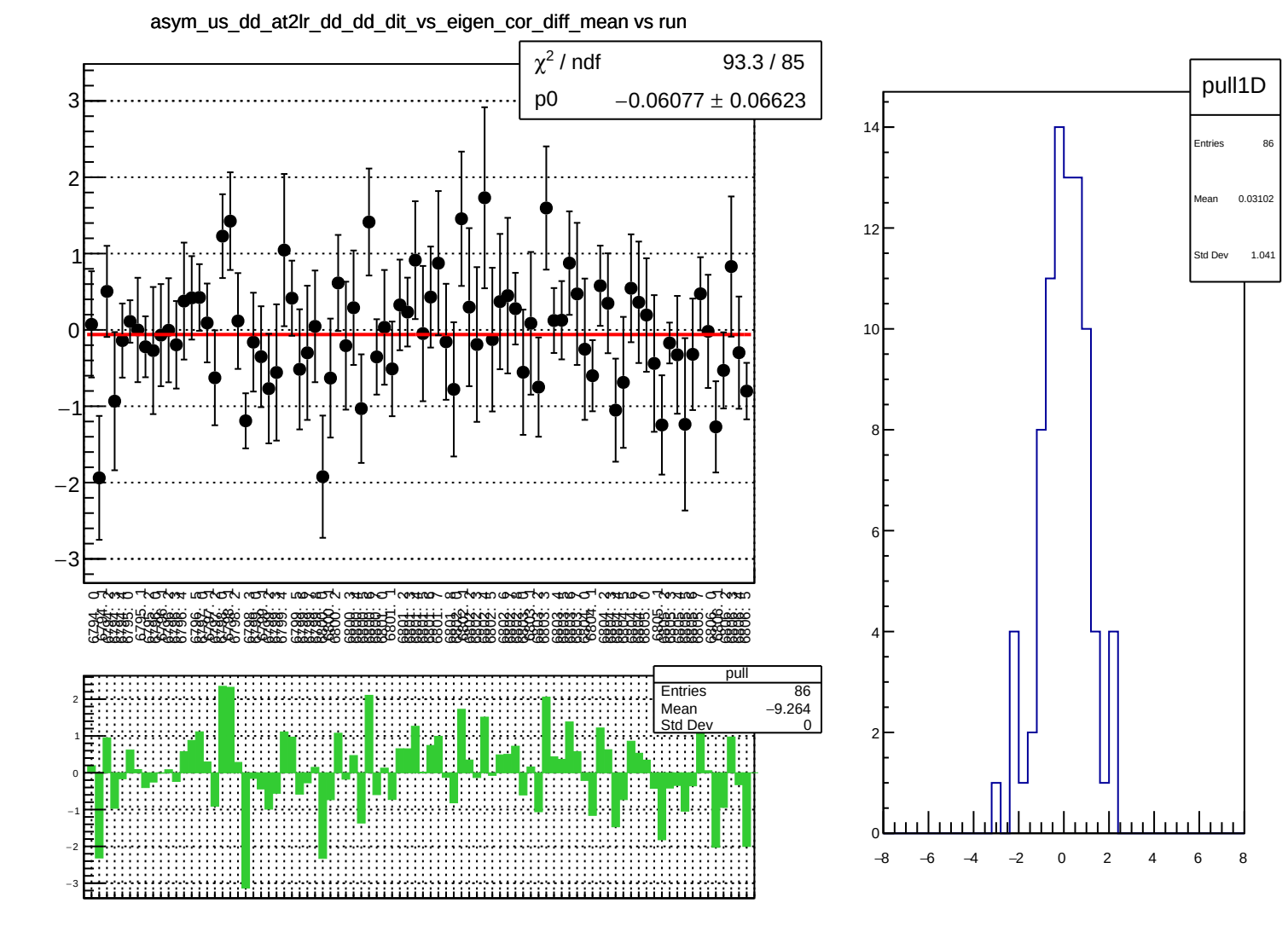

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85 / 85
p0 1.007e−14 ± 1.451e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 44.4
Std Dev 24.31
pull1D
Entries 86
Mean 0.07856
Std Dev 0.9911
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

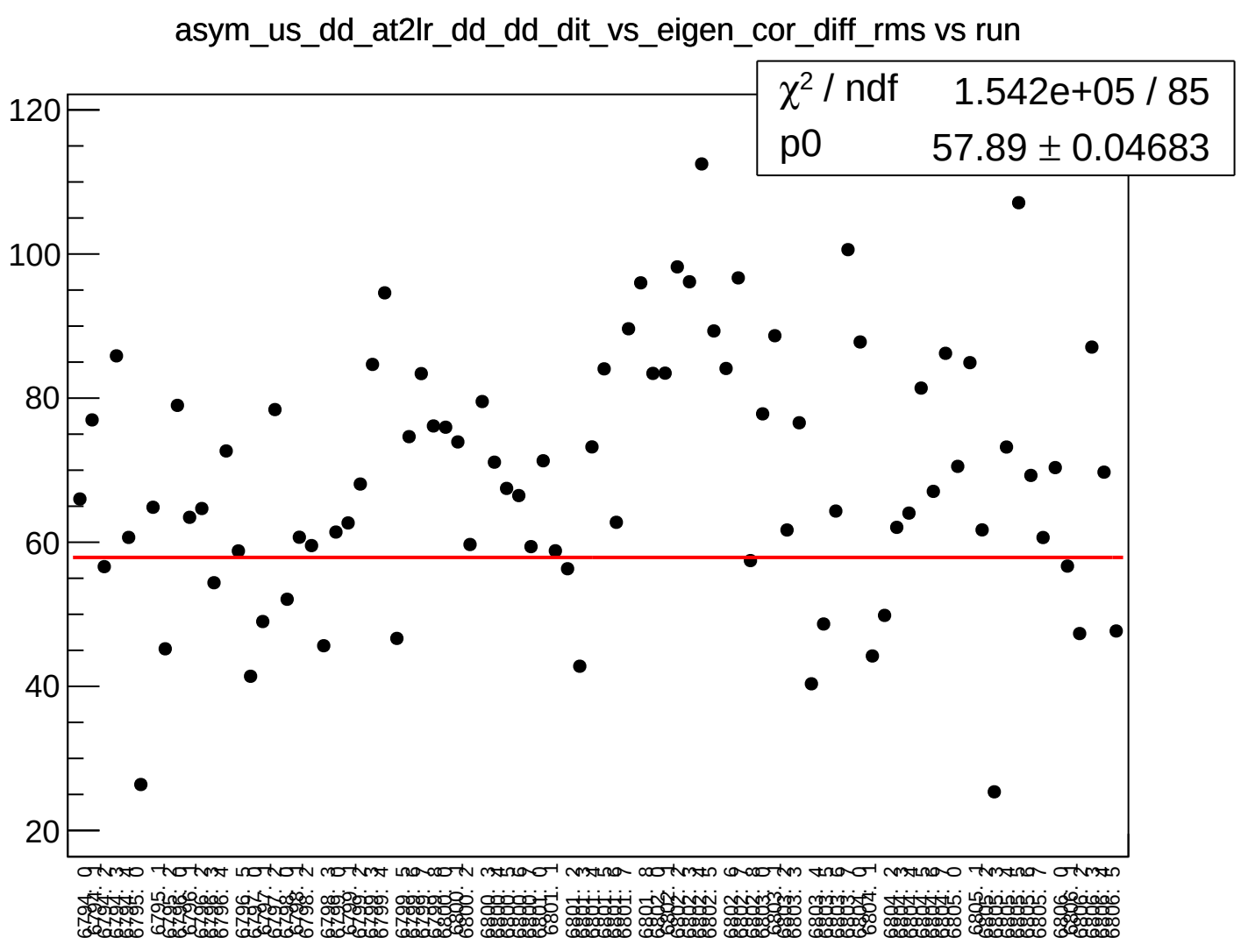

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.923e+05 / 85
p0 8.524e−12 ± 1.026e−14
1.2
1
0.8
0.6
0.4
0.2
0

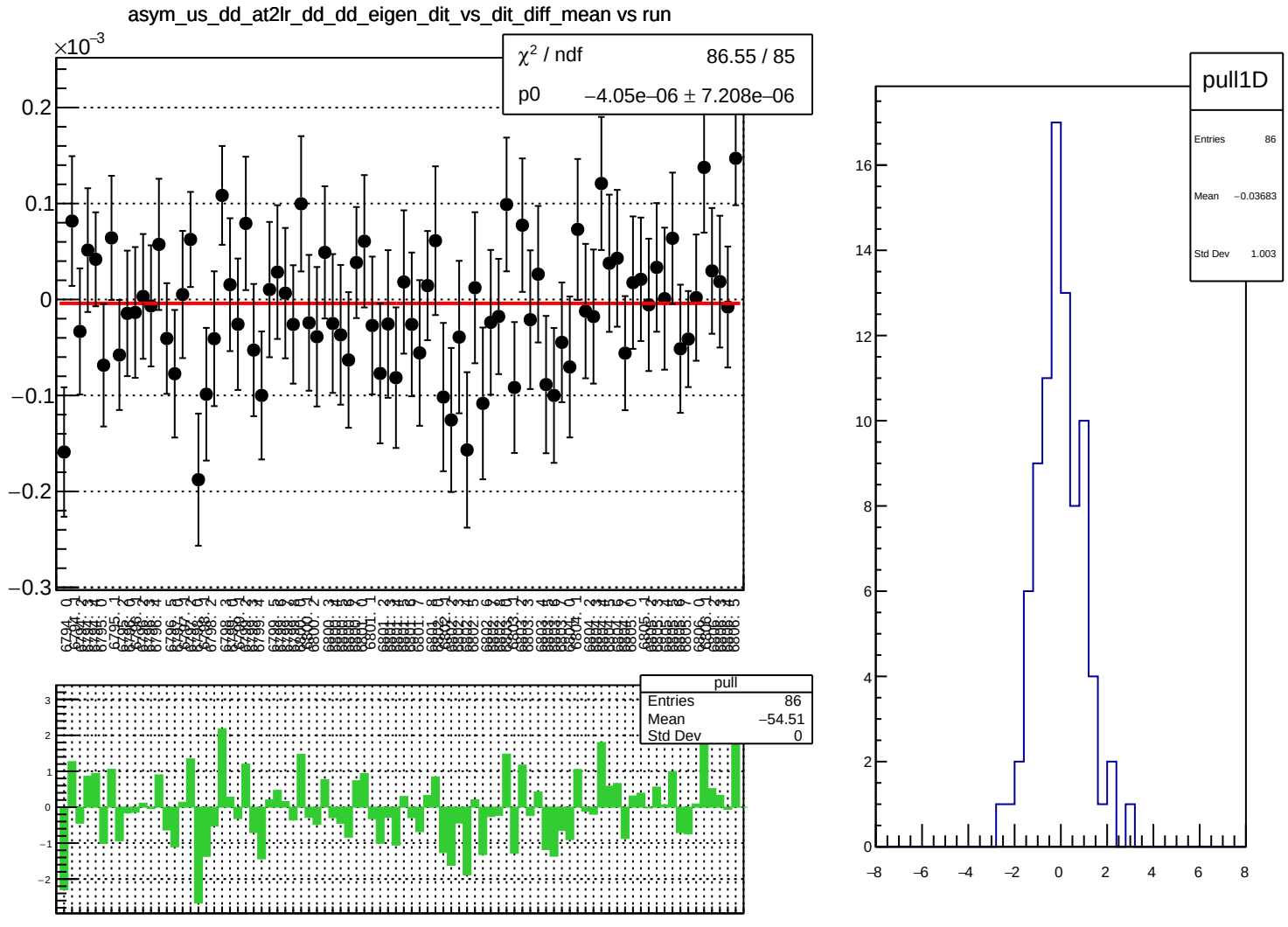

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.3 / 85
p0 −0.06077 ± 0.06623
pull
Entries 86
Mean −9.264
Std Dev 0

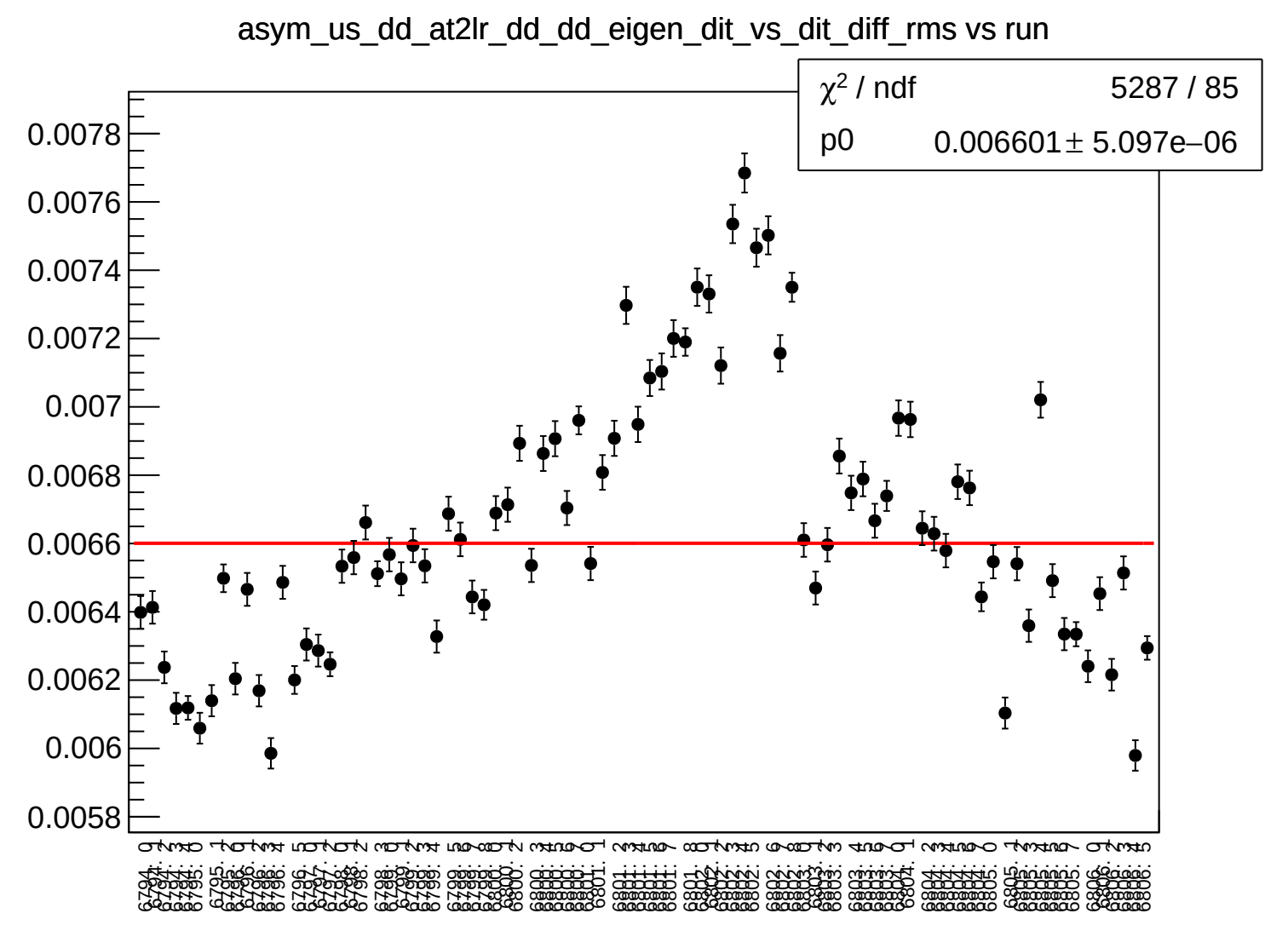

pull1D
Entries 86
Mean 0.03102
Std Dev 1.041

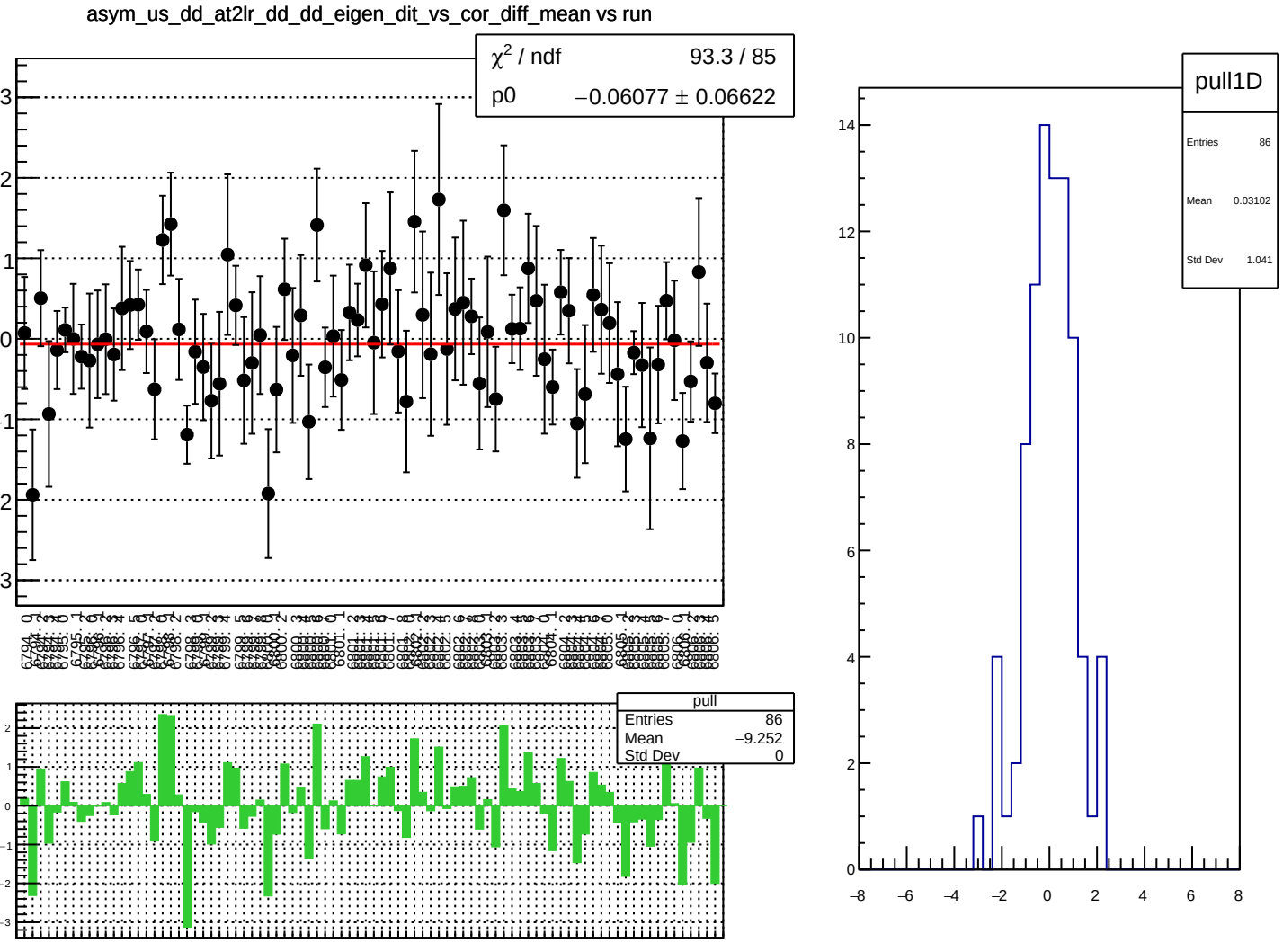

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 85
p0 57.89 ± 0.04683
120
100
80
60
40
20

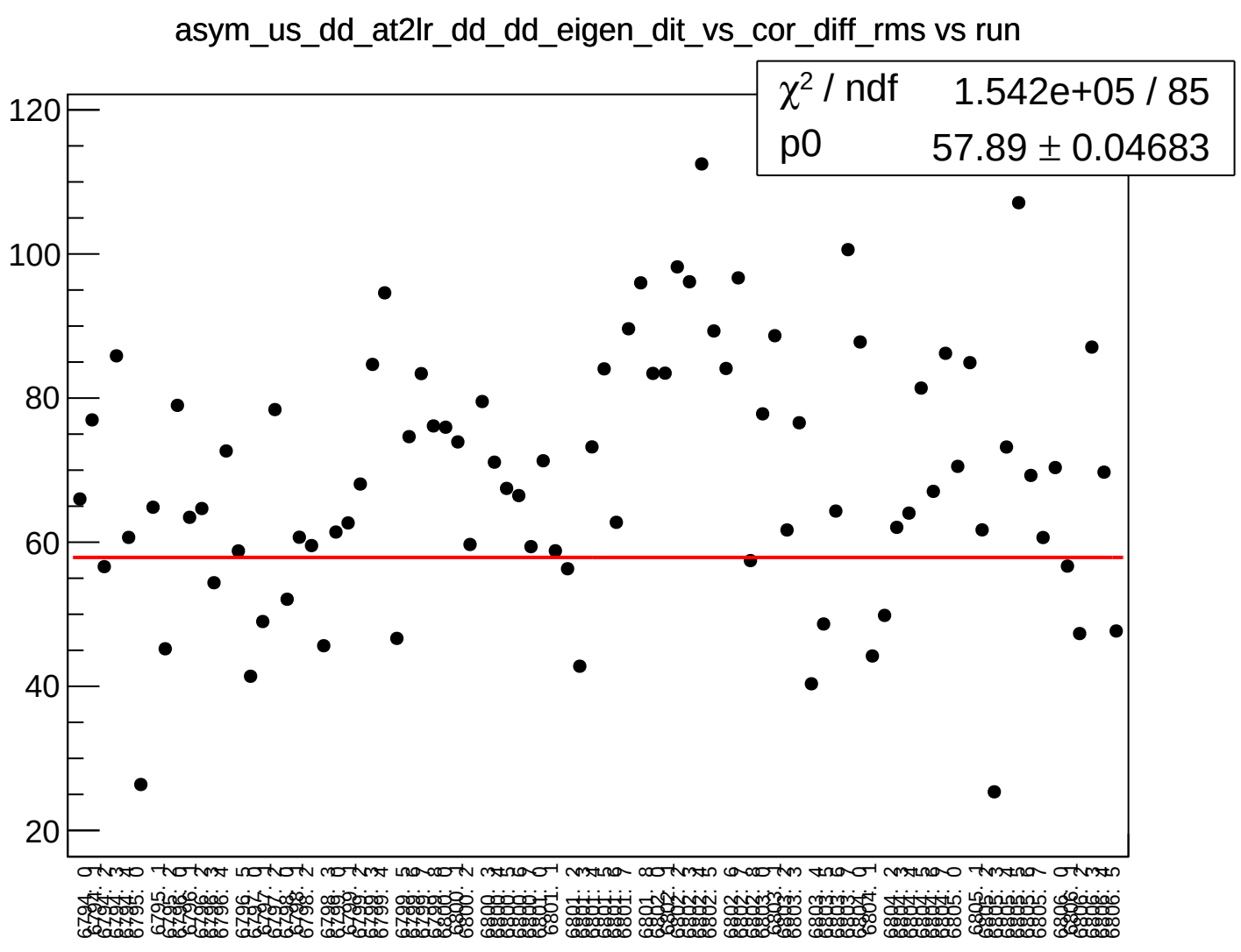

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.3 / 85
p0 −0.06077 ± 0.06623
pull
Entries 86
Mean −9.264
Std Dev 0
pull1D
Entries 86
Mean 0.03102
Std Dev 1.041

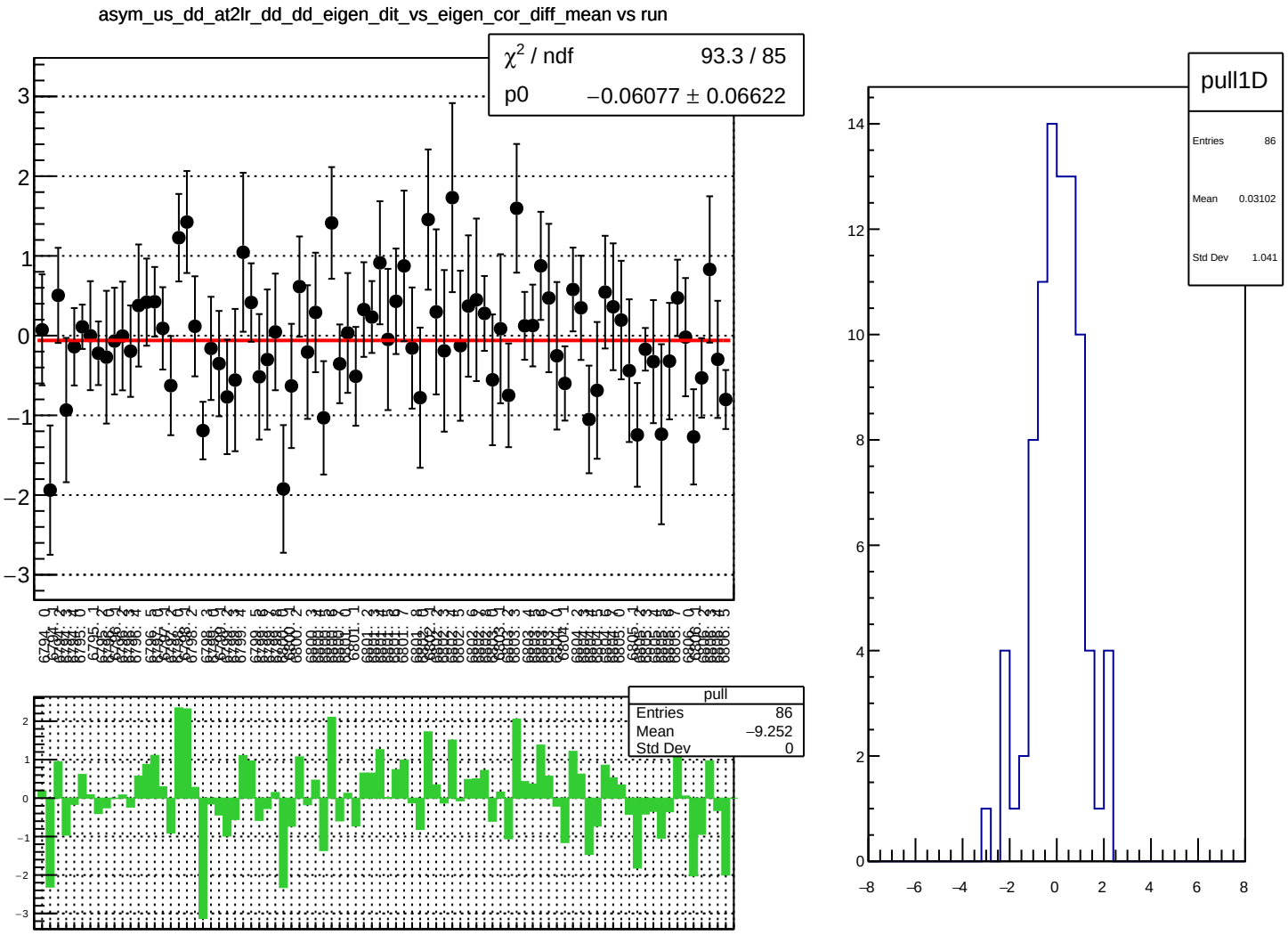

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 85
p0 57.89 ± 0.04683
120
100
80
60
40
20

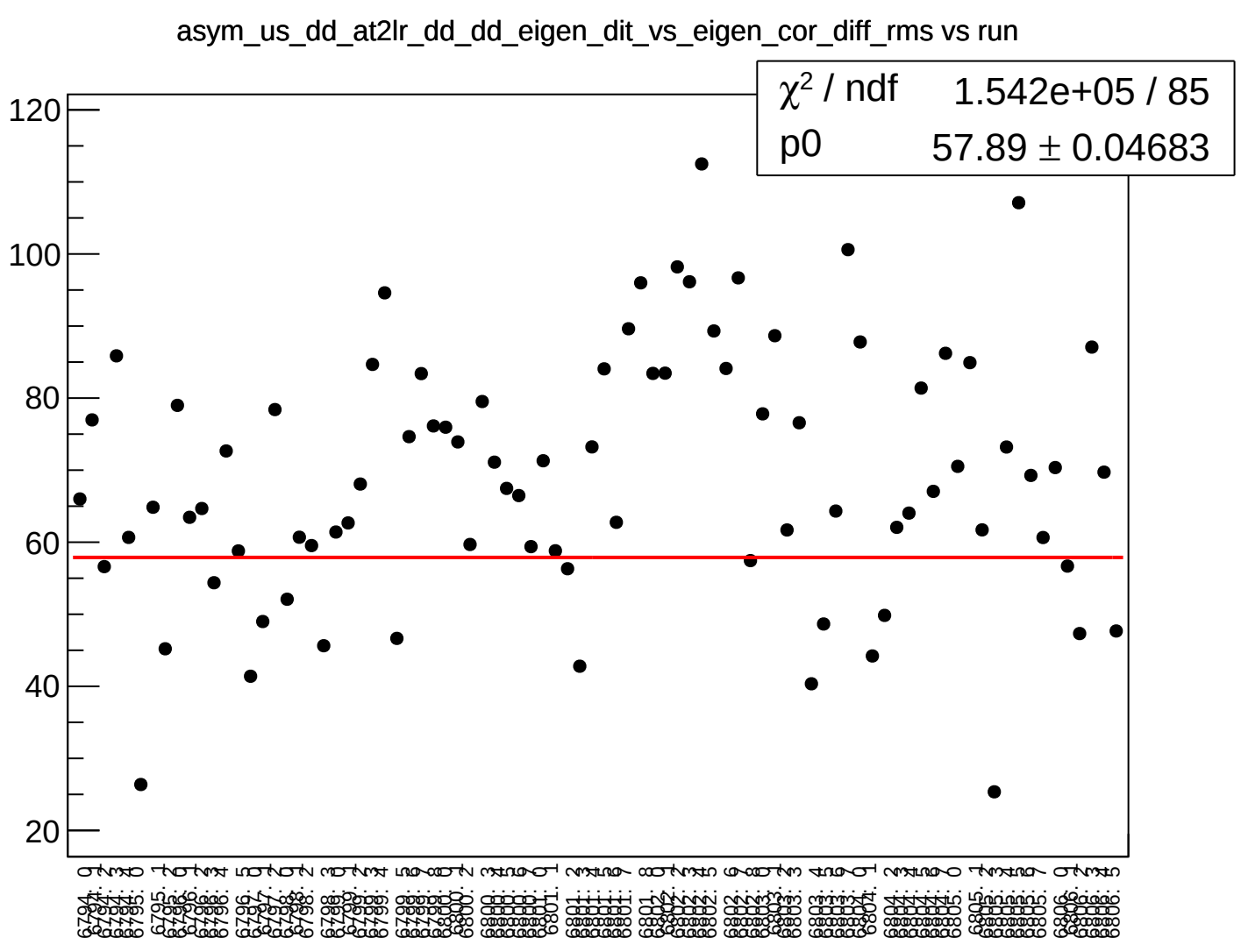

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.55 / 85
p0 −4.05e−06 ± 7.208e−06
pull
Entries 86
Mean −54.51
Std Dev 0
pull1D
Entries 86
Mean −0.03683
Std Dev 1.003

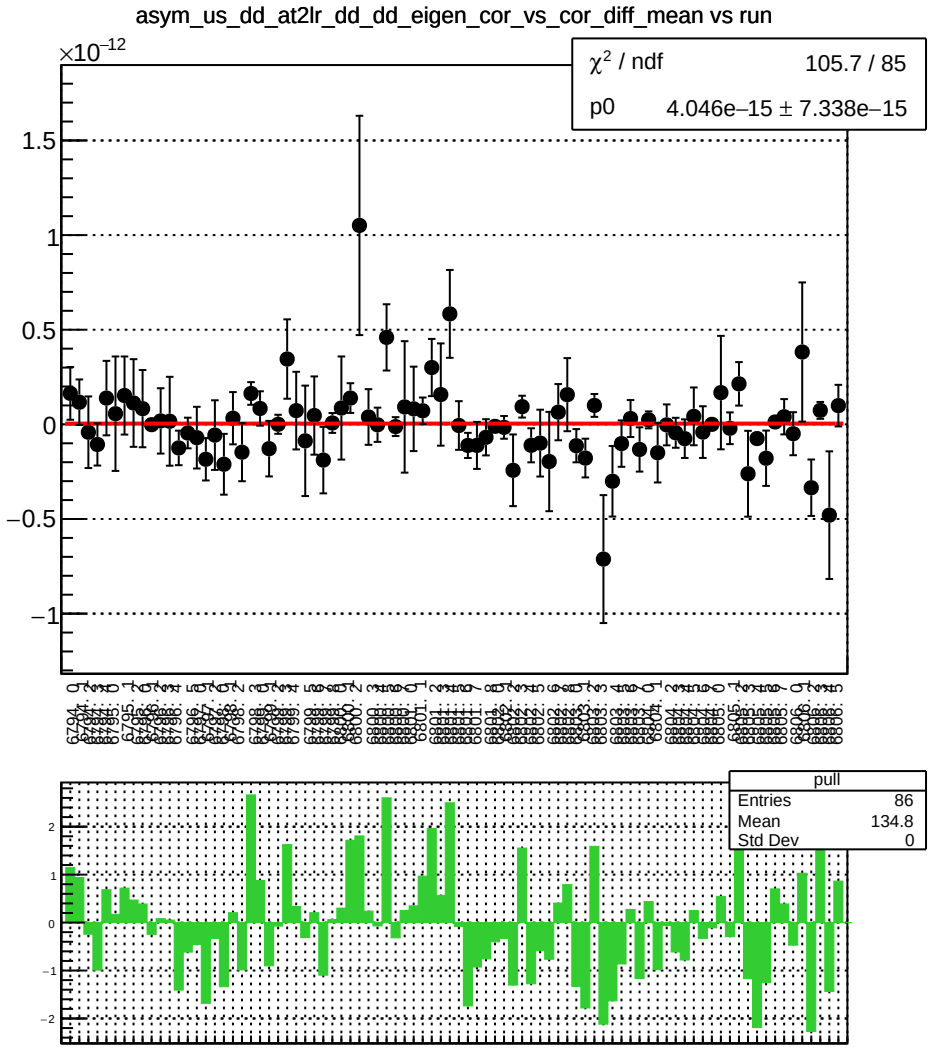

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5287 / 85
p0 0.006601 ± 5.097e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058

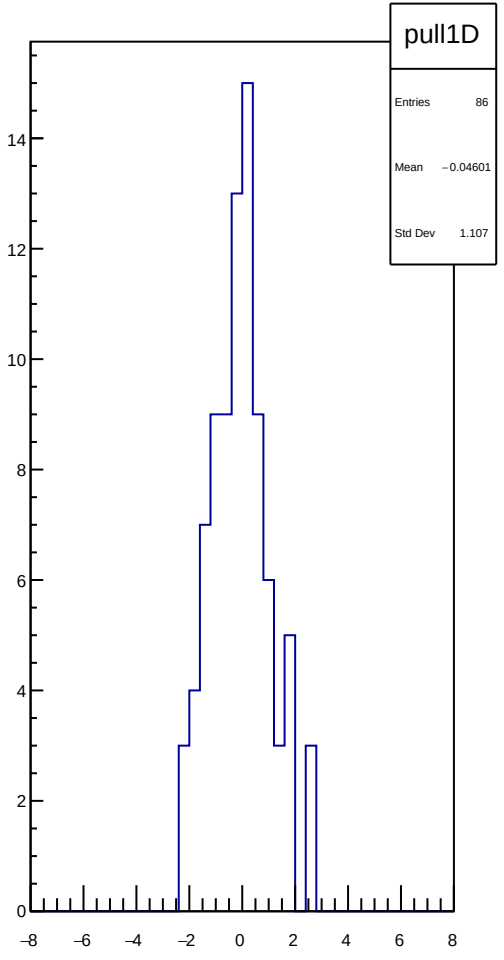

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.3 / 85
p0 −0.06077 ± 0.06622
pull
Entries 86
Mean −9.252
Std Dev 0
pull1D
Entries 86
Mean 0.03102
Std Dev 1.041

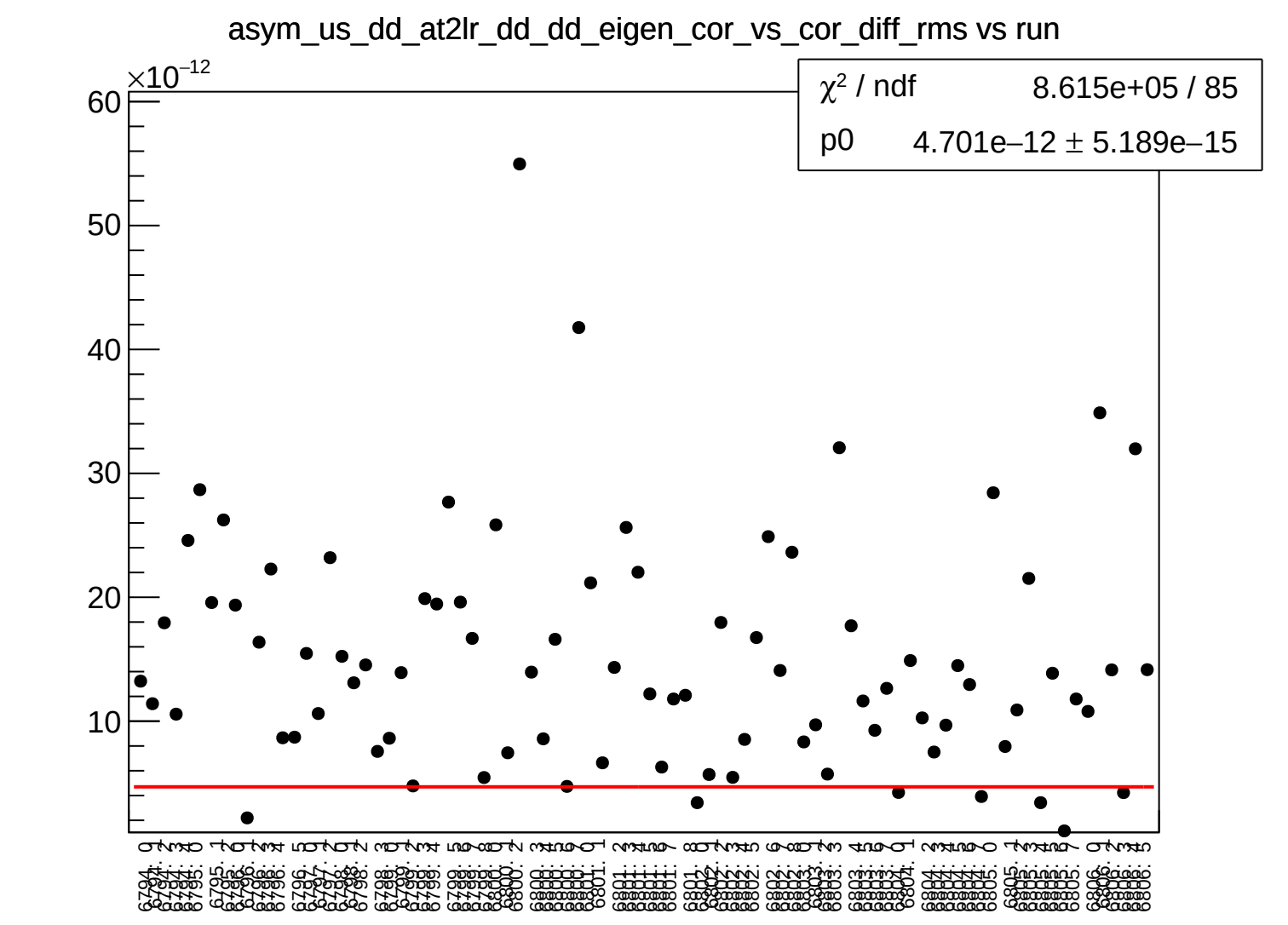

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 85
p0 57.89 ± 0.04683
120
100
80
60
40
20

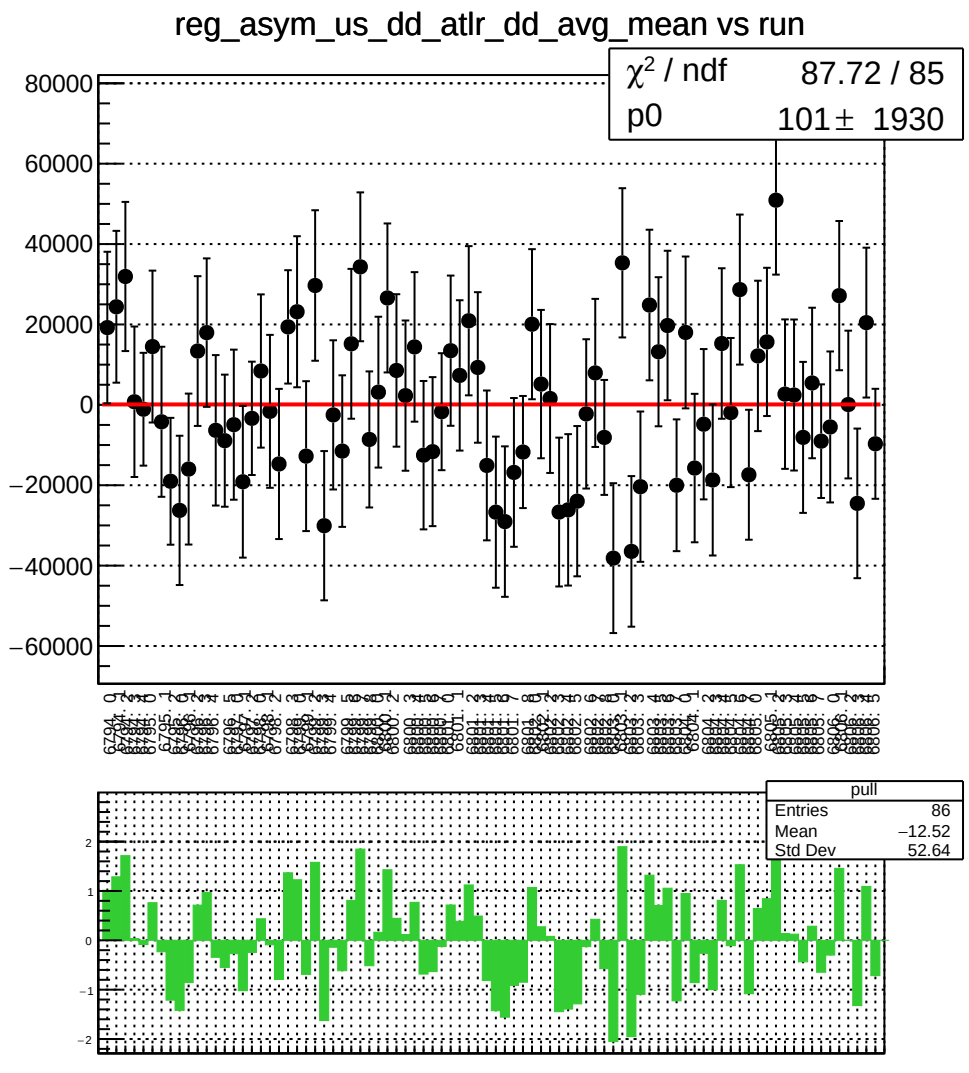

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.3 / 85
p0 −0.06077 ± 0.06622
pull
Entries 86
Mean −9.252
Std Dev 0
pull1D
Entries 86
Mean 0.03102
Std Dev 1.041

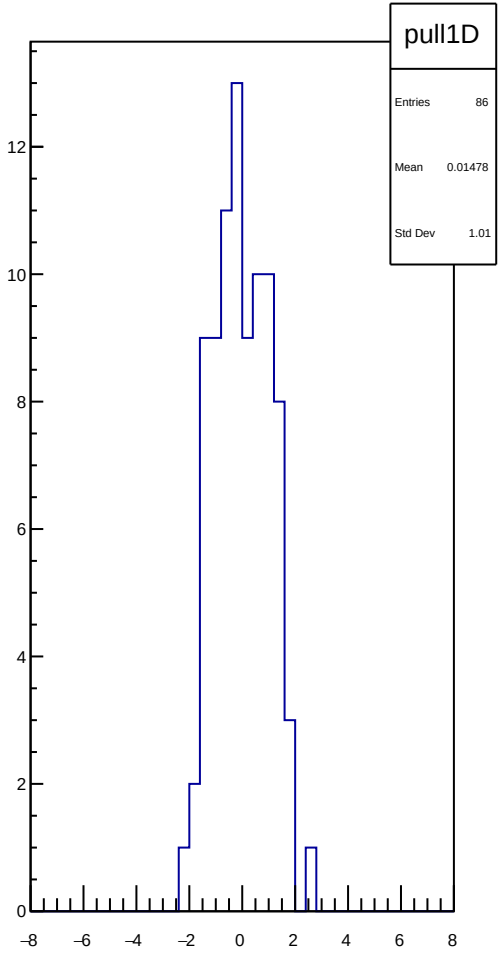

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.542e+05 / 85
p0 57.89 ± 0.04683
120
100
80
60
40
20

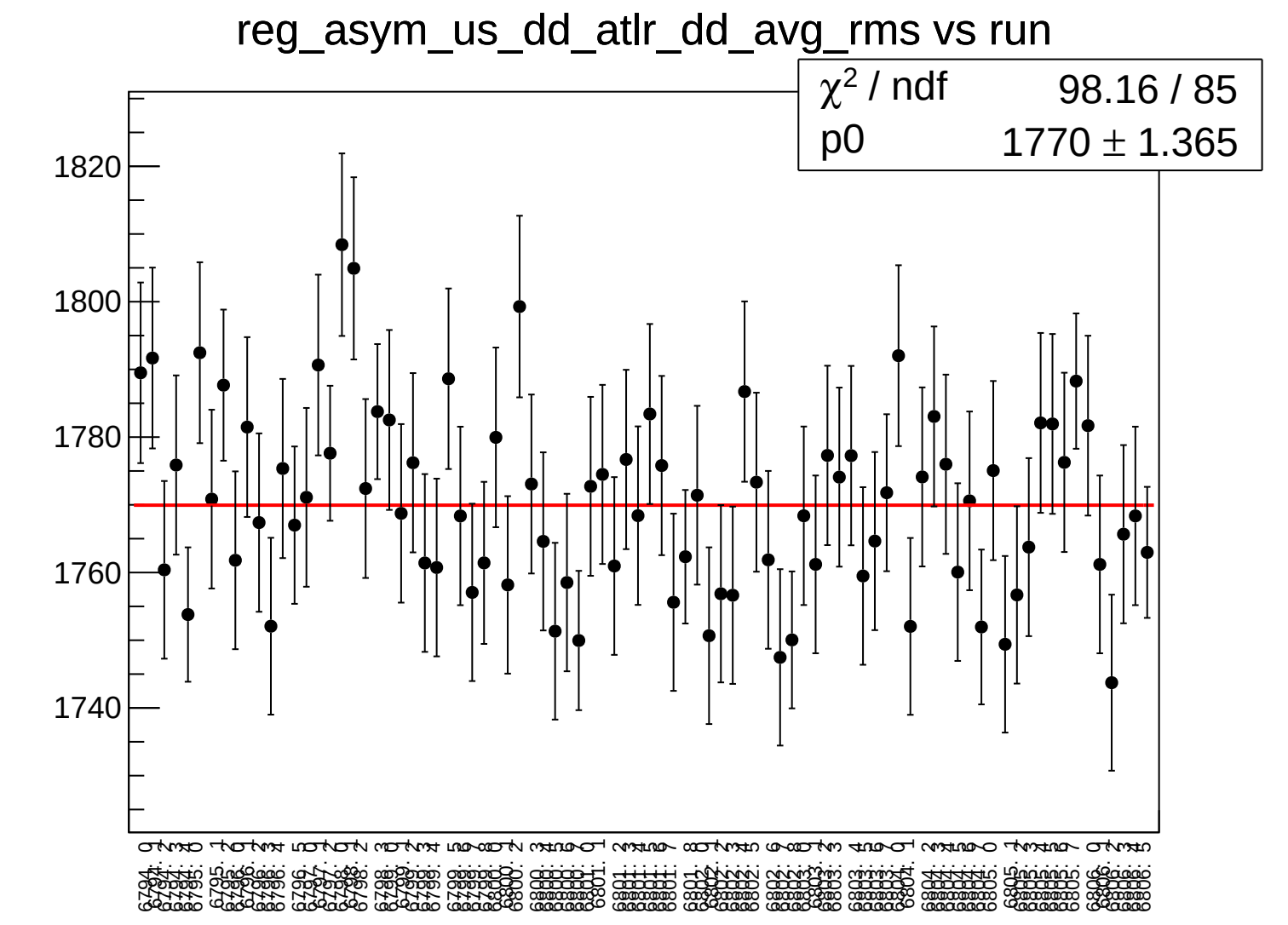

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 85
p0 4.046e−15 ± 7.338e−15
pull
Entries 86
Mean 134.8
Std Dev 0

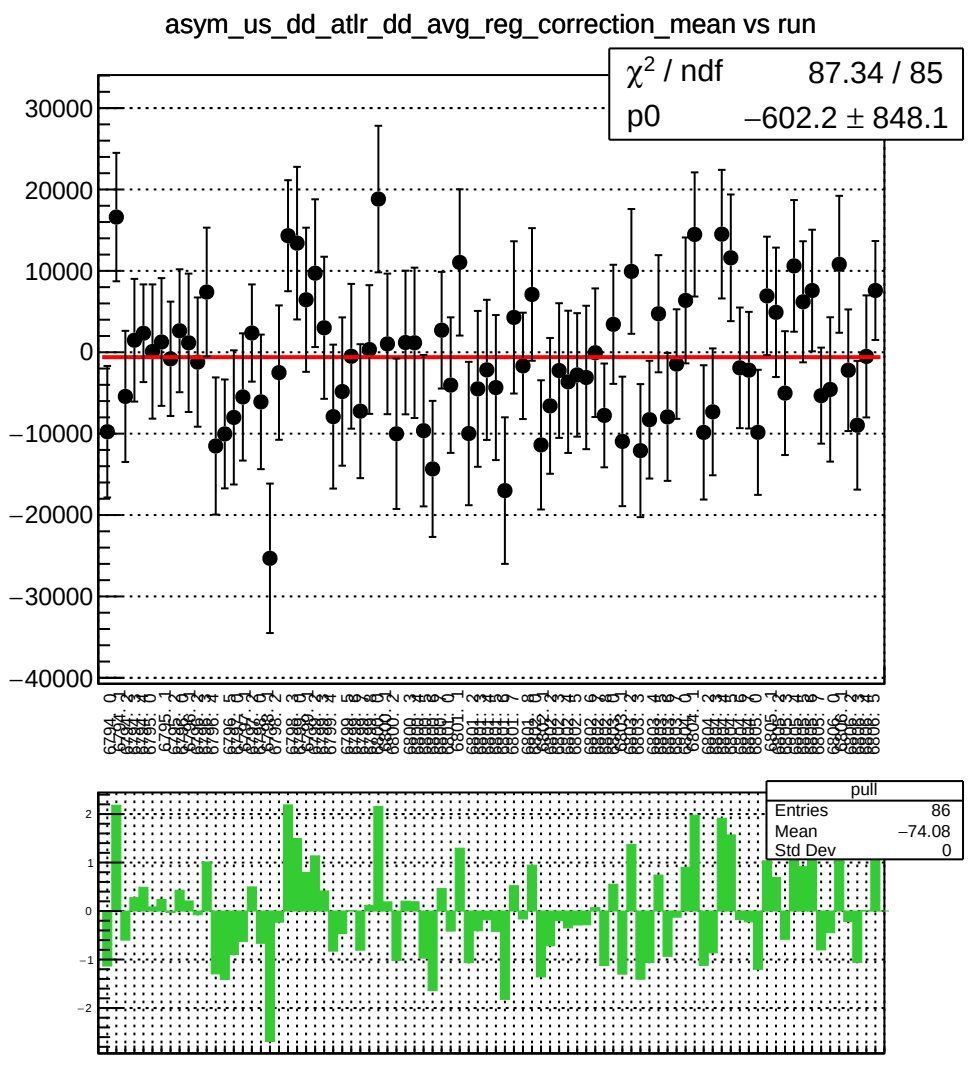

pull1D
Entries 86
Mean −0.04601
Std Dev 1.107

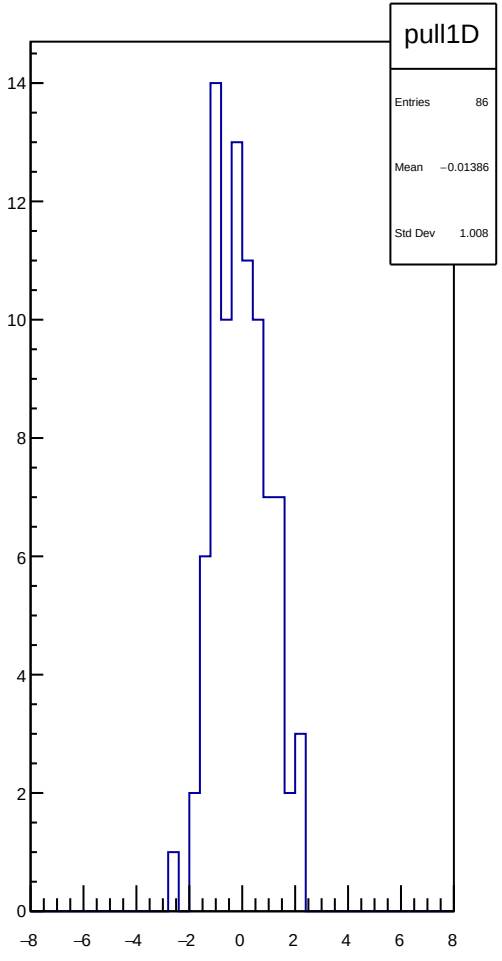

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.615e+05 / 85
p0 4.701e−12 ± 5.189e−15
60
50
40
30
20
10

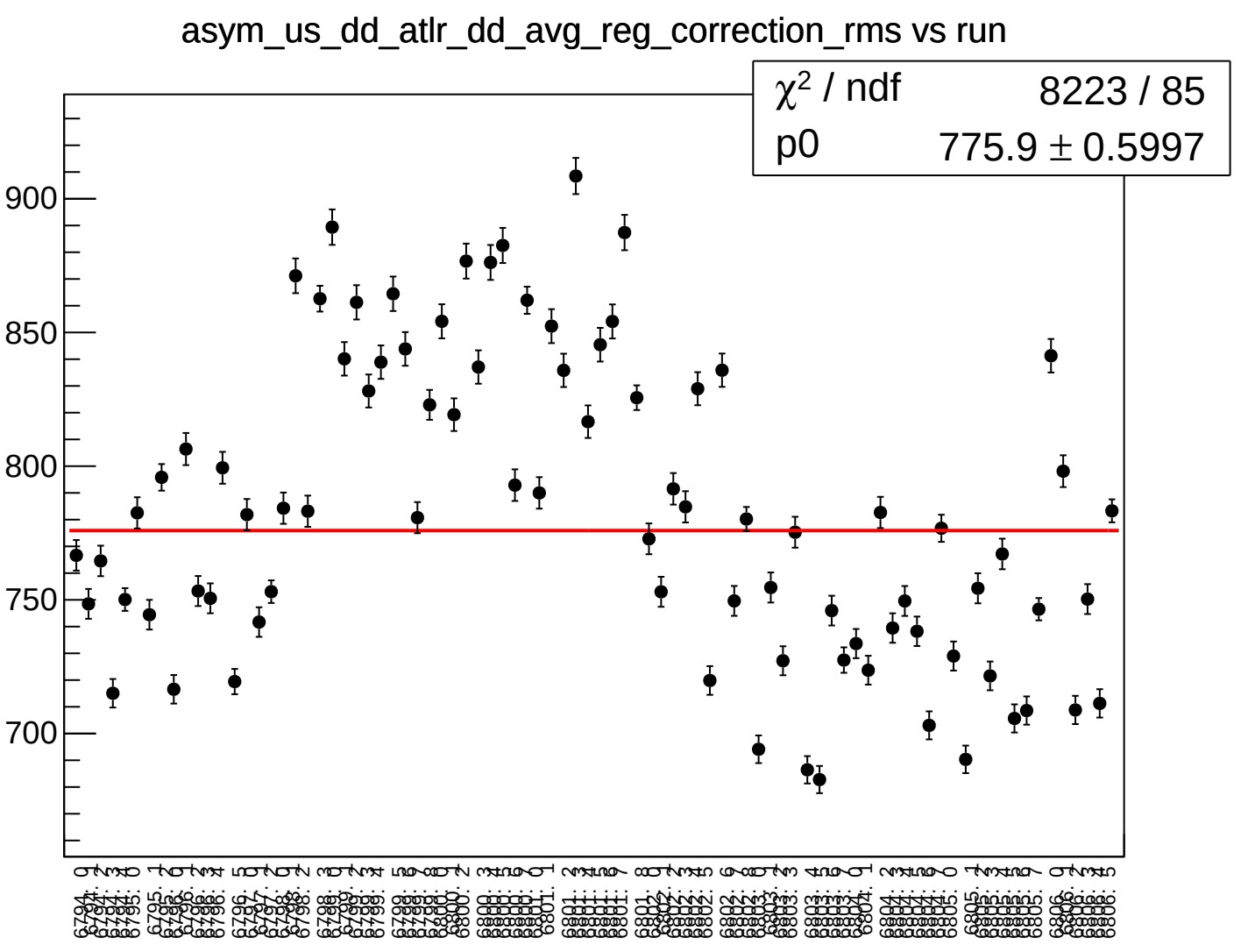

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.72 / 85
p0 101 ± 1930
pull
Entries 86
Mean −12.52
Std Dev 52.64

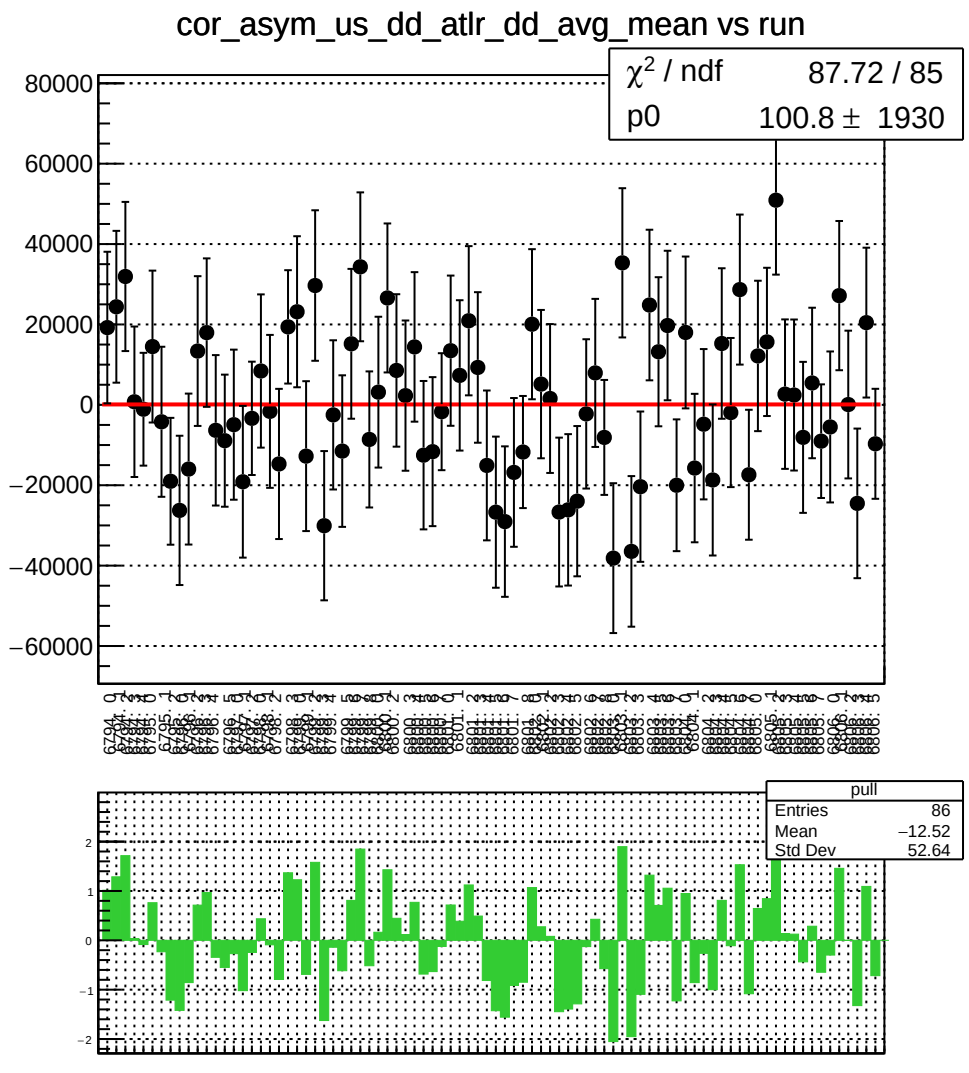

pull1D
Entries 86
Mean 0.01478
Std Dev 1.01

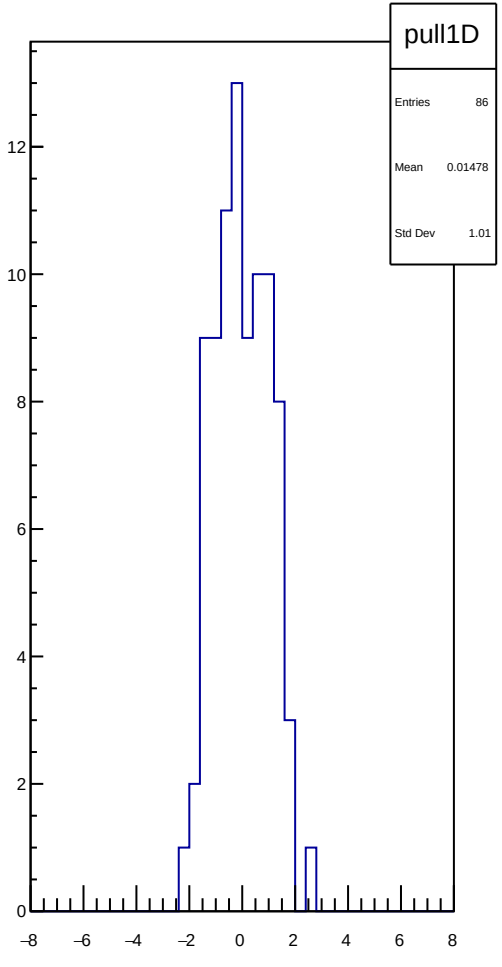

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 98.16 / 85
p0 1770 ± 1.365
1820
1800
1780
1760
1740

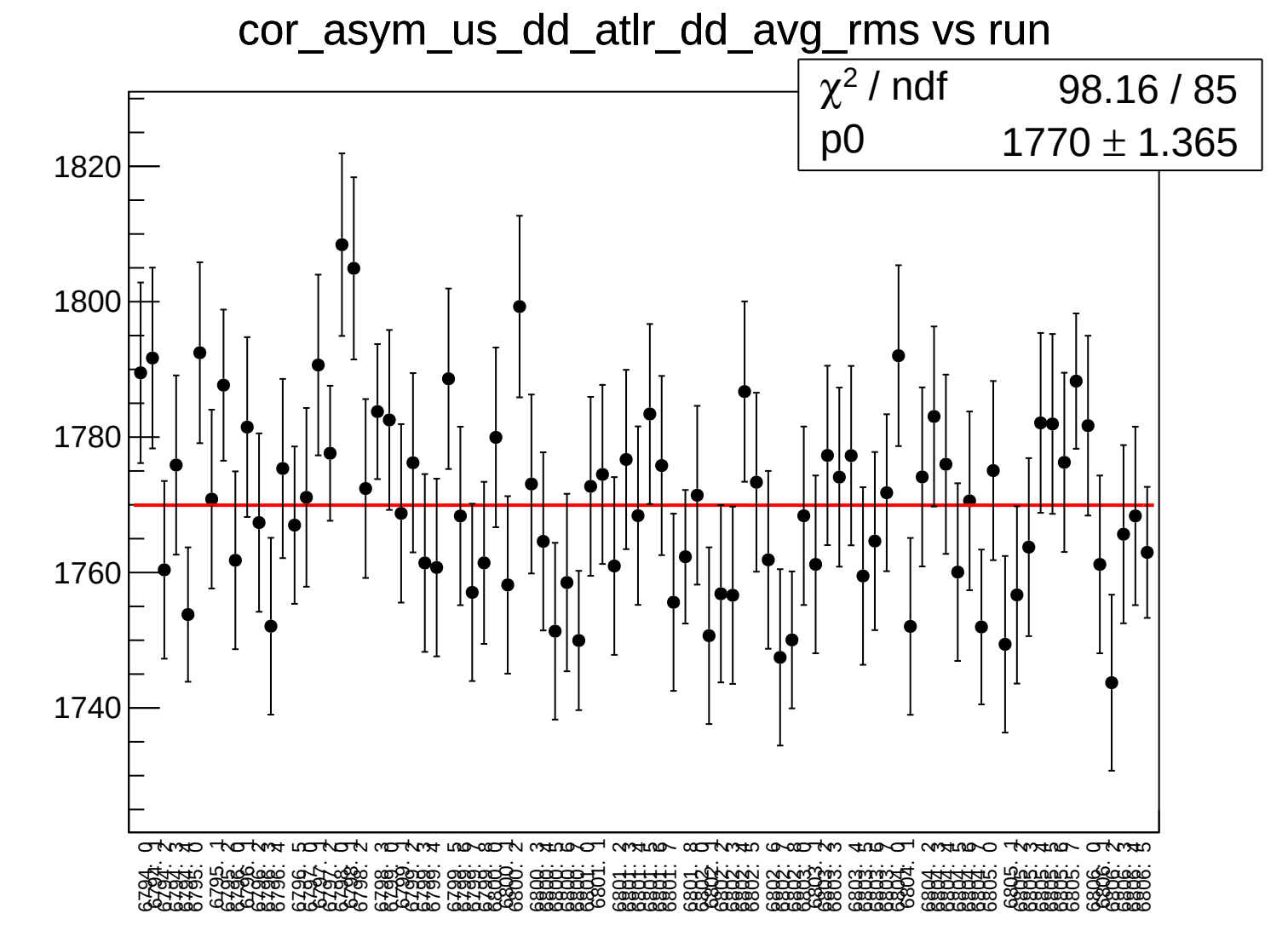

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 87.34 / 85
p0 −602.2 ± 848.1
pull
Entries 86
Mean −74.08
Std Dev 0

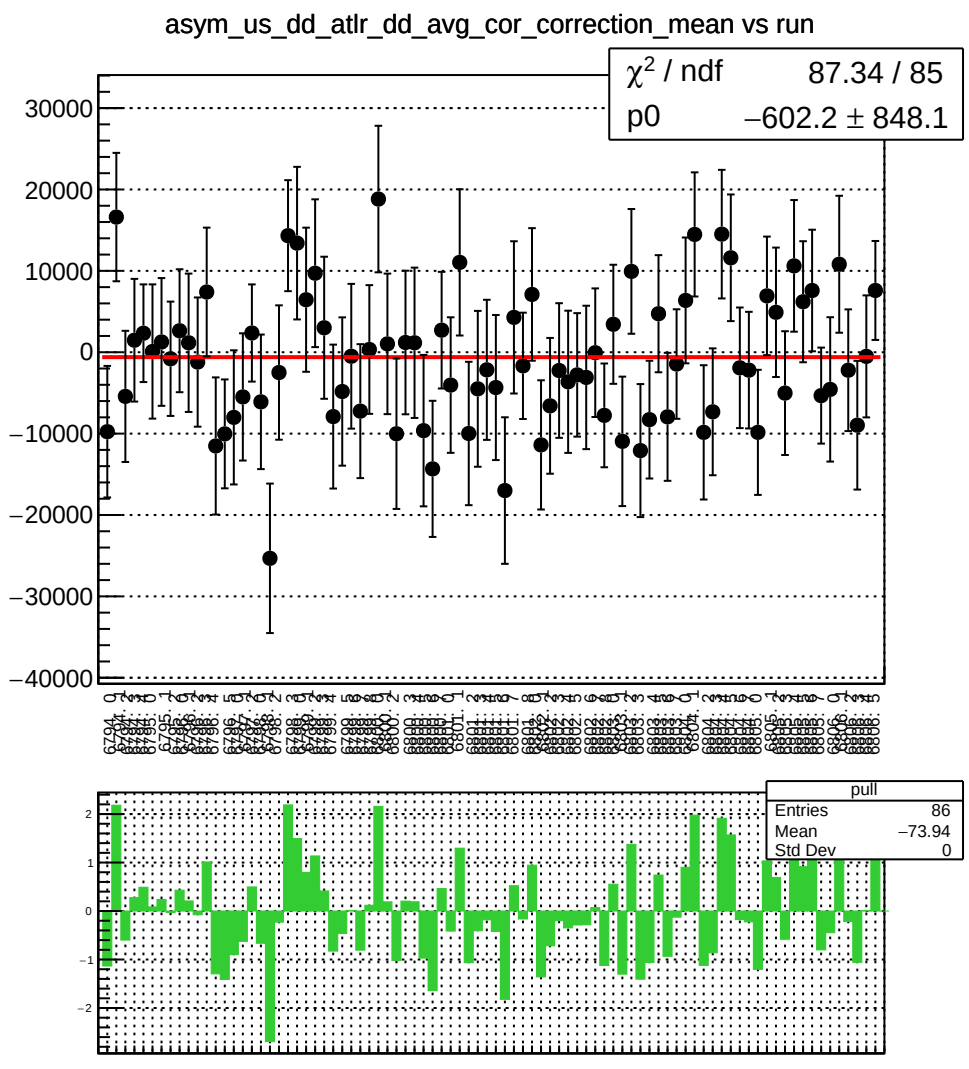

pull1D
Entries 86
Mean −0.01386
Std Dev 1.008

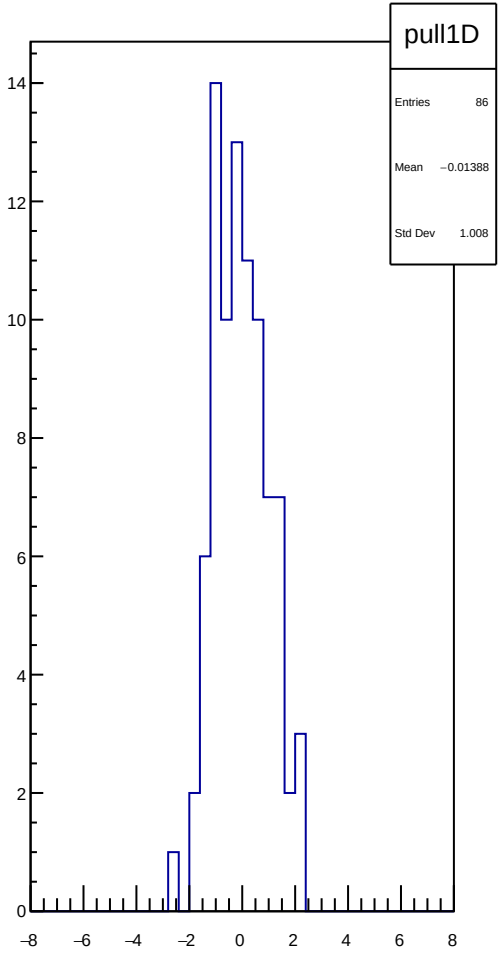

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 8223 / 85
p0 775.9 ± 0.5997
900
850
800
750
700

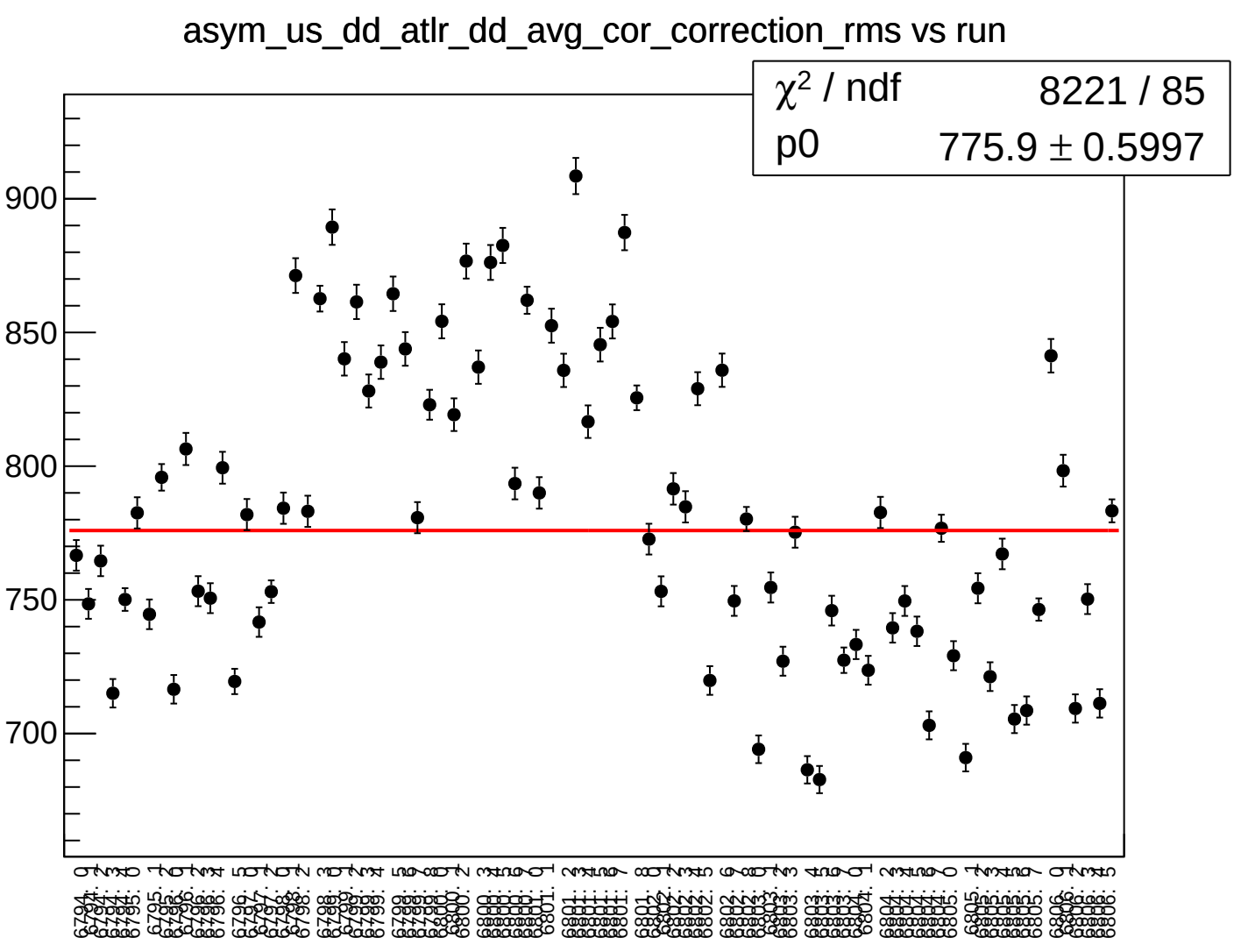

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.72 / 85
p0 100.8 ± 1930
pull
Entries 86
Mean −12.52
Std Dev 52.64

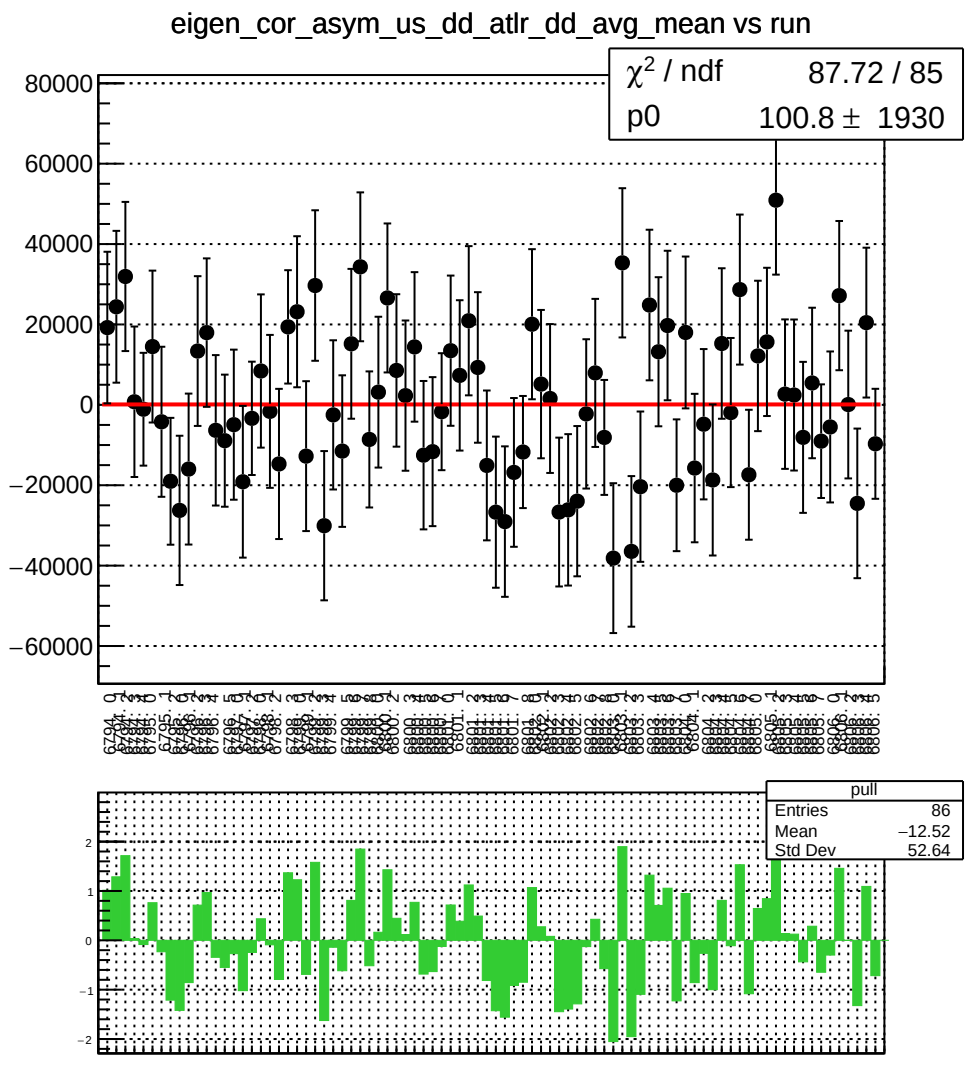

pull1D
Entries 86
Mean 0.01478
Std Dev 1.01

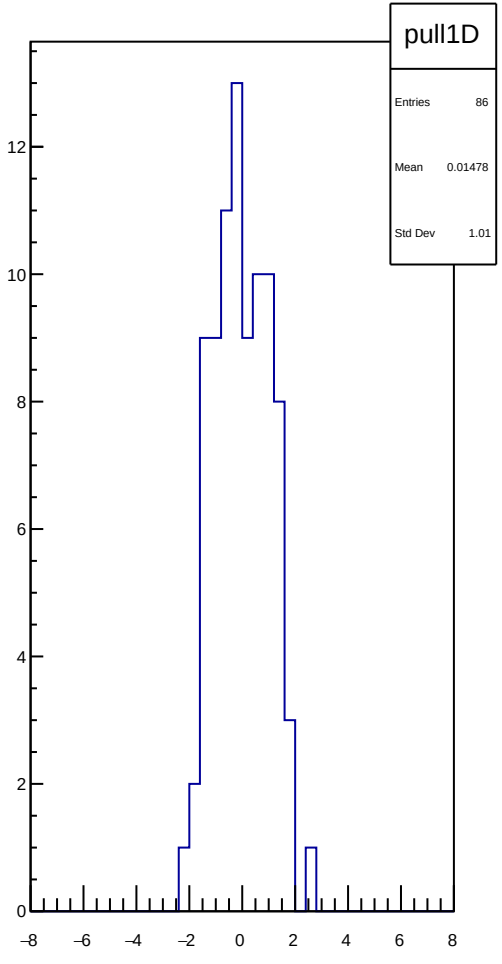

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 98.16 / 85
p0 1770 ± 1.365
1820
1800
1780
1760
1740

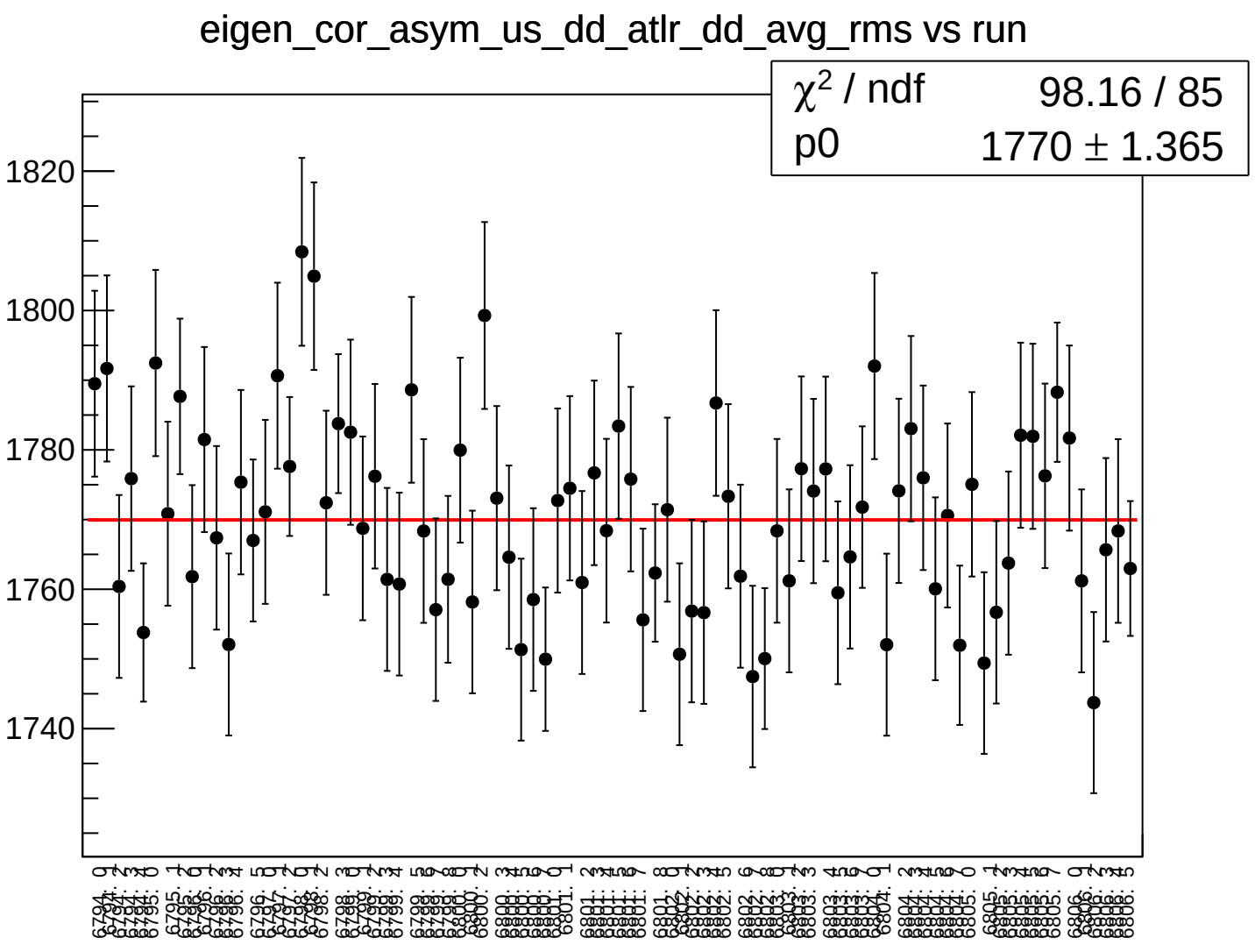

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 87.34 / 85
p0 −602.2 ± 848.1
pull
Entries 86
Mean −73.94
Std Dev 0

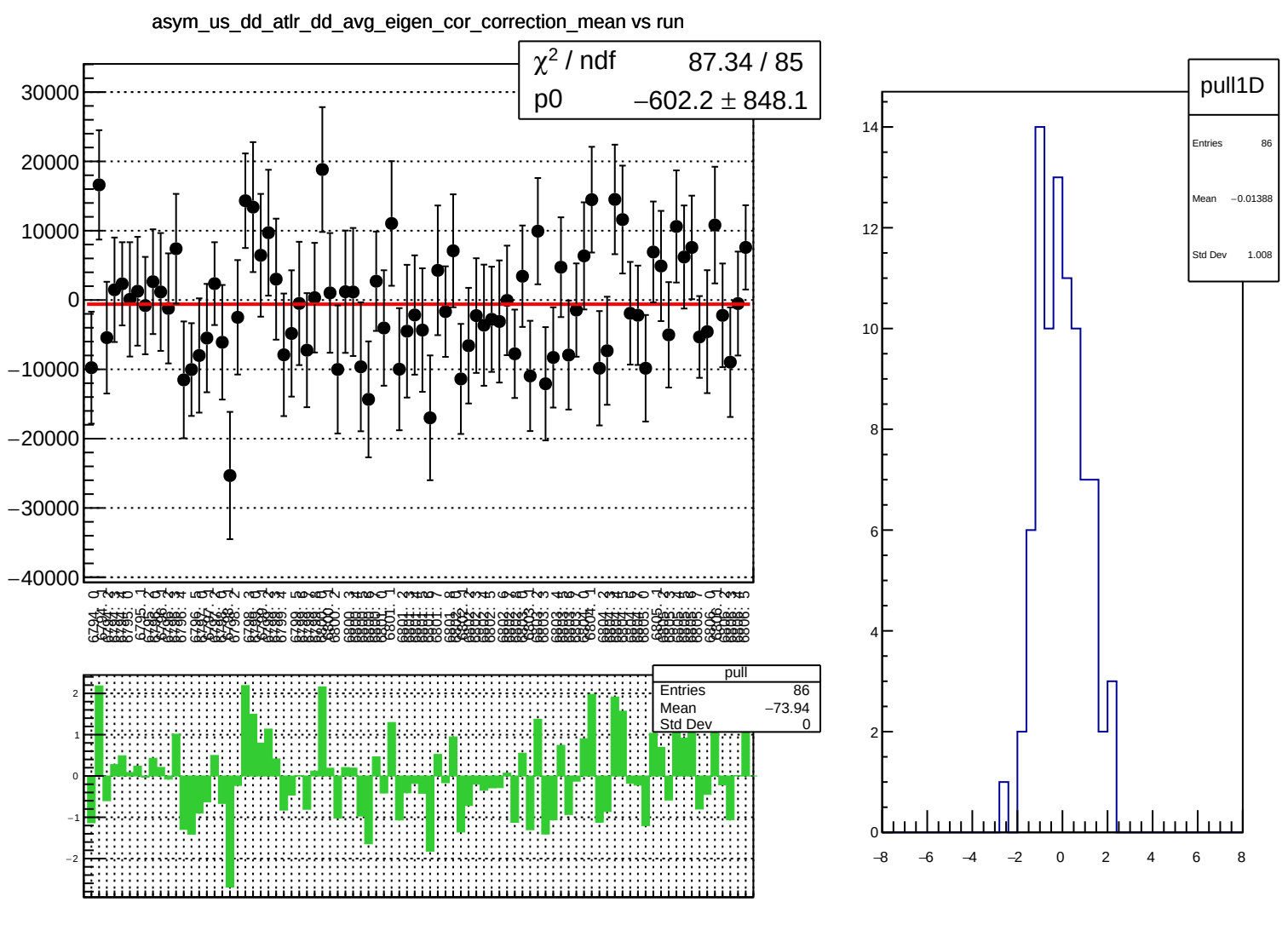

pull1D
Entries 86
Mean −0.01388
Std Dev 1.008

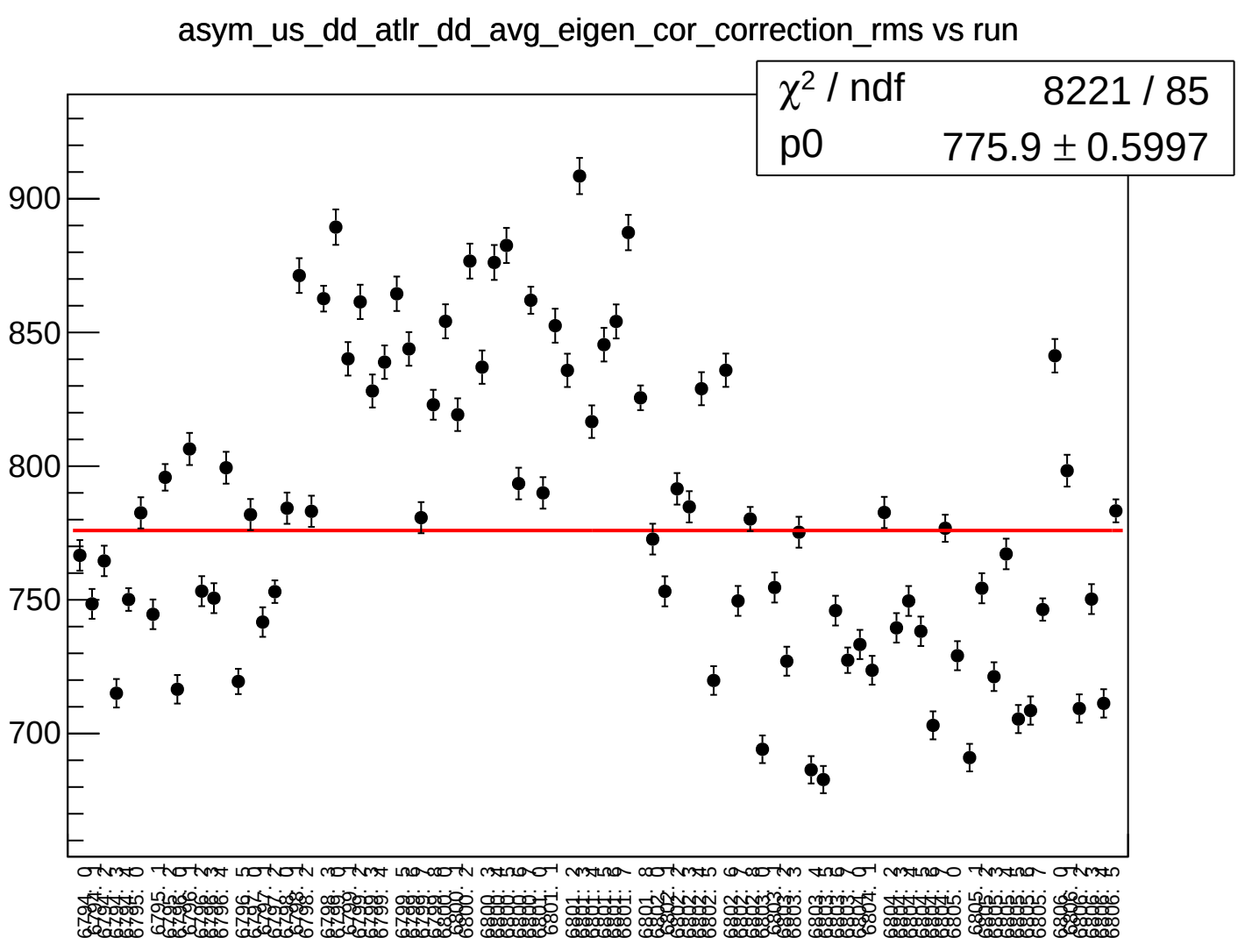

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 8221 / 85
p0 775.9 ± 0.5997
900
850
800
750
700

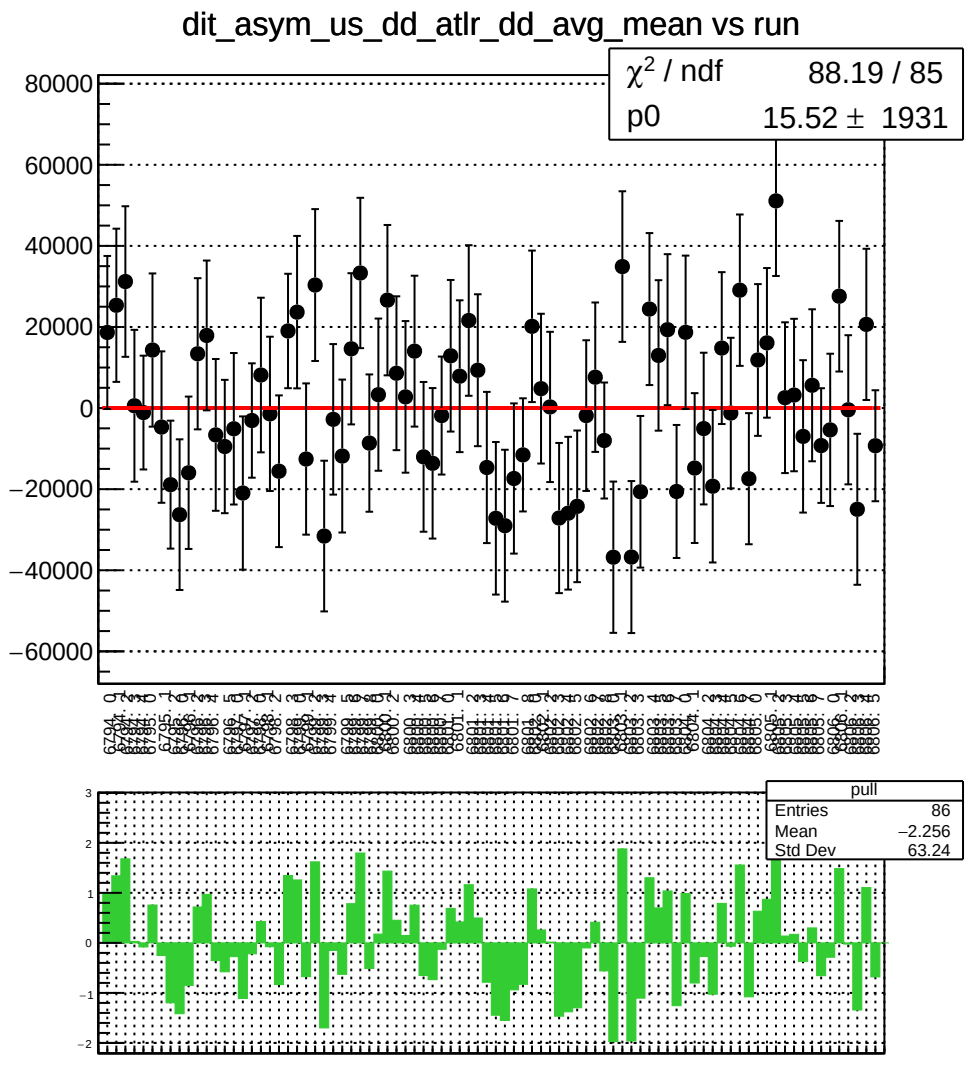

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 87.72 / 85
p0 100.8 ± 1930
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −12.52
Std Dev 52.64
2
1
0
−1
−2

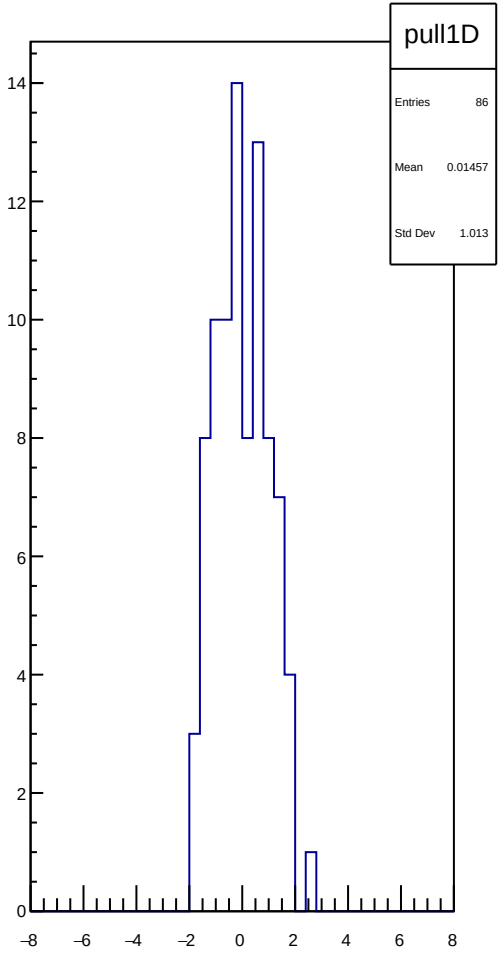

pull1D
Entries 86
Mean 0.01478
Std Dev 1.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

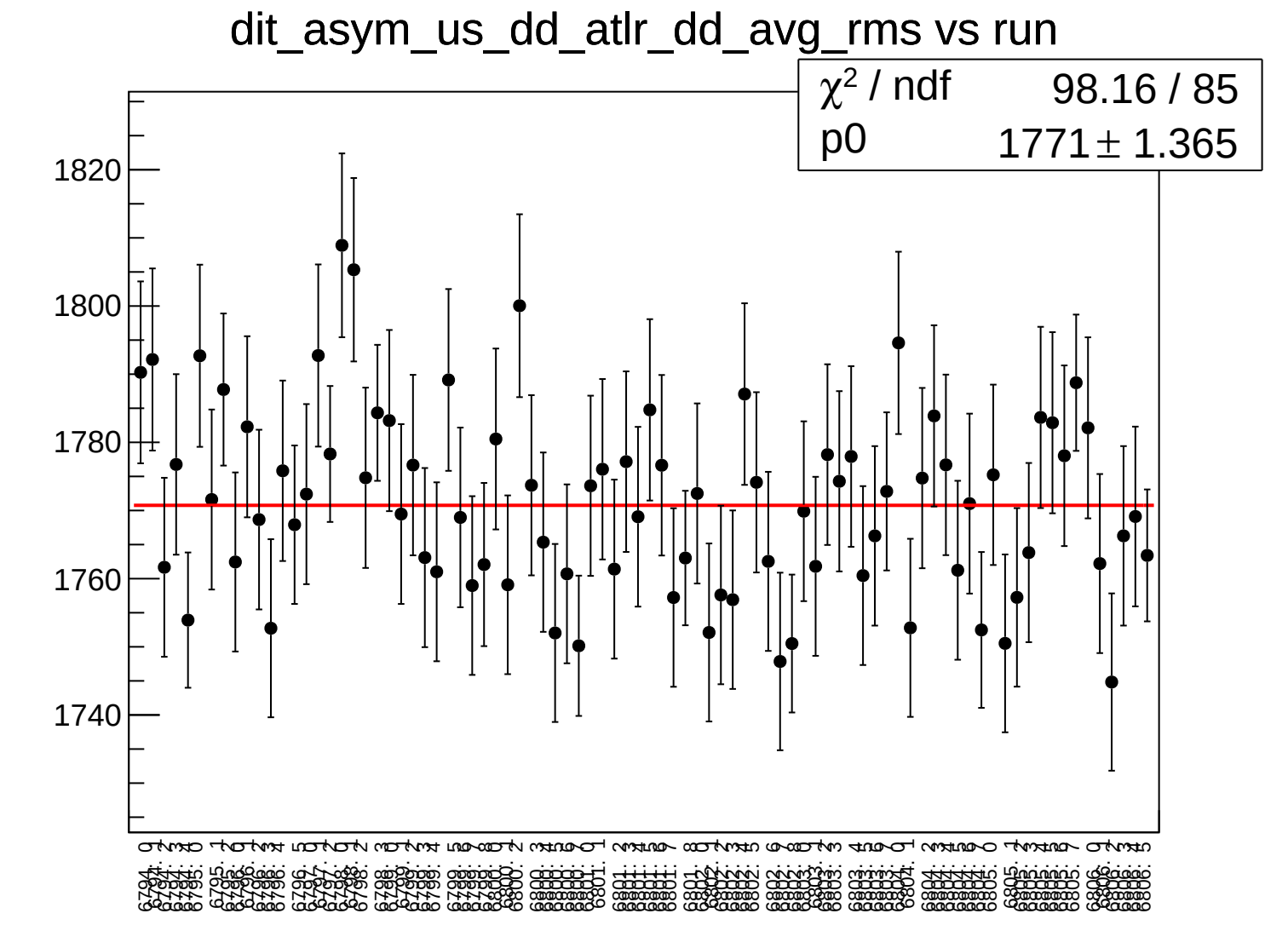

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 98.16 / 85
p0 1770 ± 1.365
1820
1800
1780
1760
1740

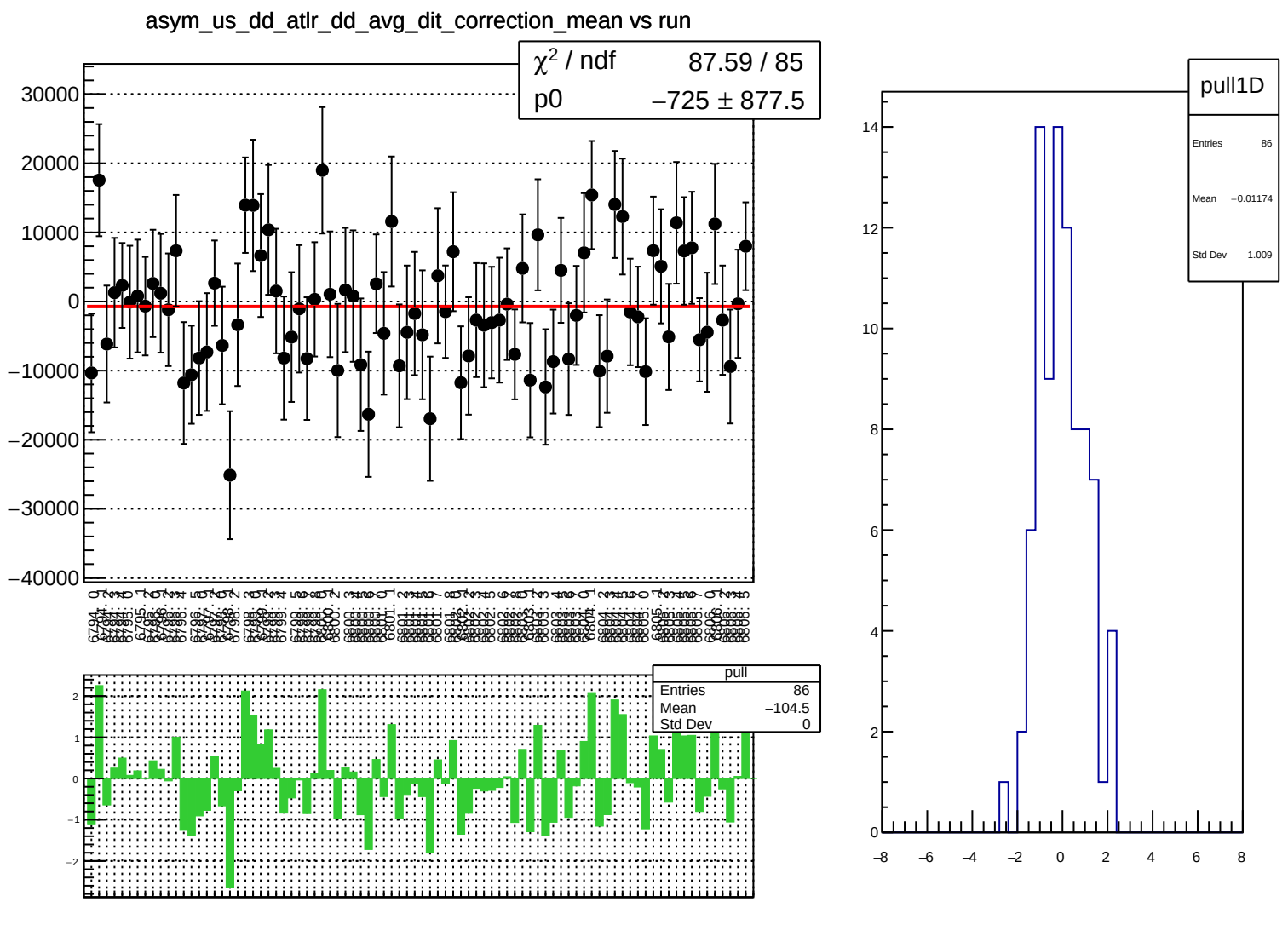

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.34 / 85
p0 −602.2 ± 848.1
pull
Entries 86
Mean −73.94
Std Dev 0
pull1D
Entries 86
Mean −0.01388
Std Dev 1.008

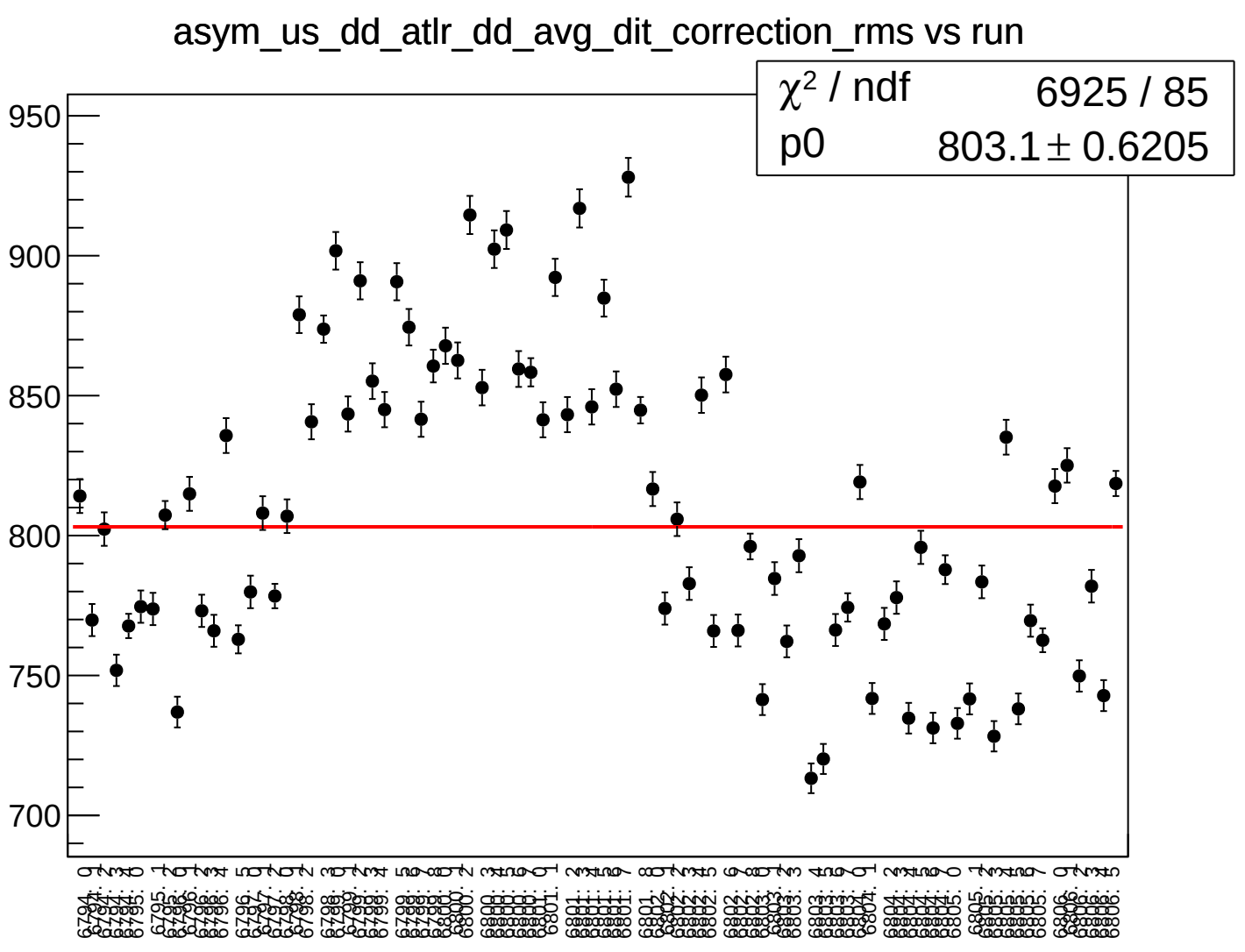

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8221 / 85
p0 775.9 ± 0.5997
900
850
800
750
700

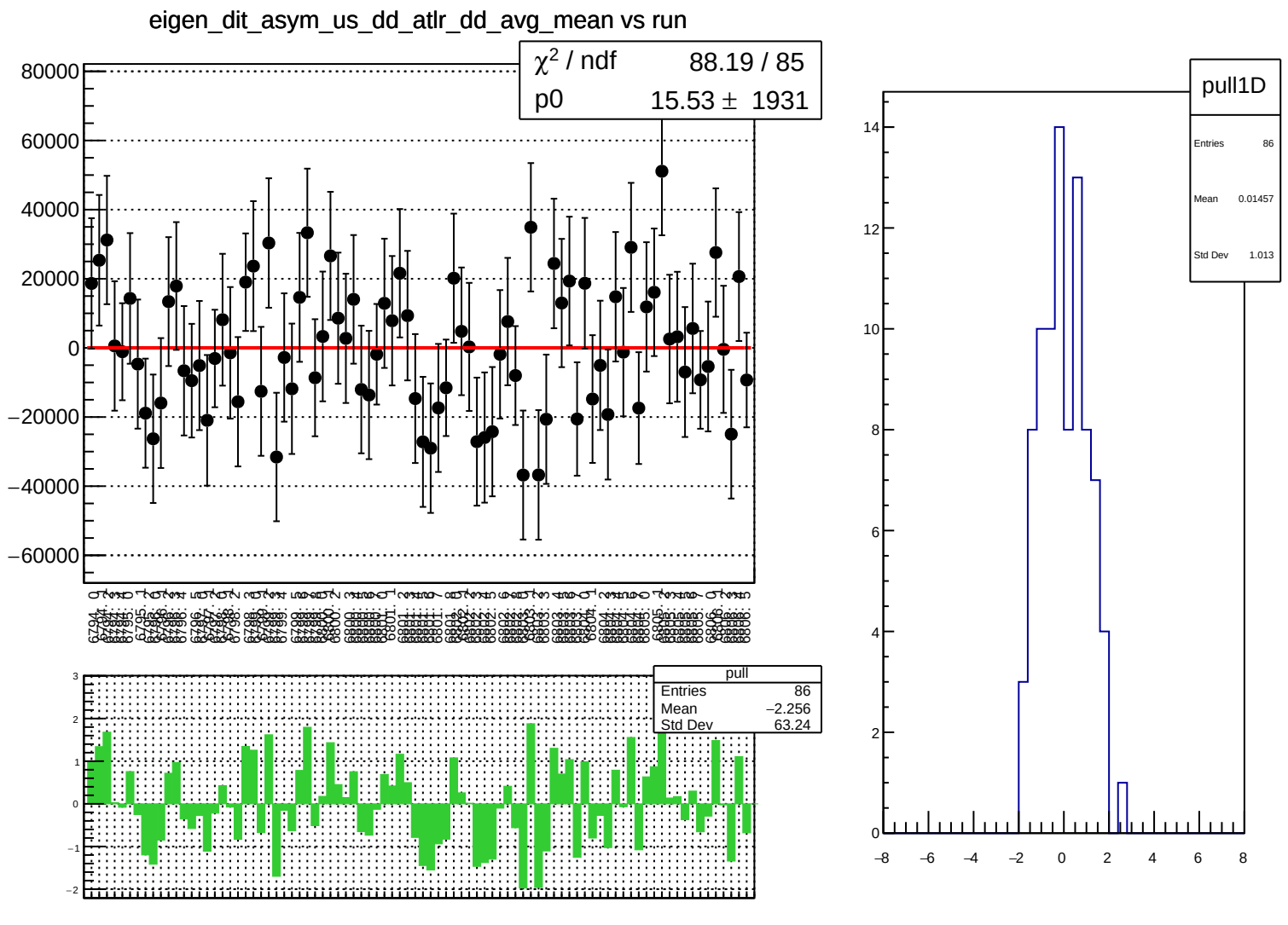

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.19 / 85
p0 15.52 ± 1931
pull
Entries 86
Mean −2.256
Std Dev 63.24

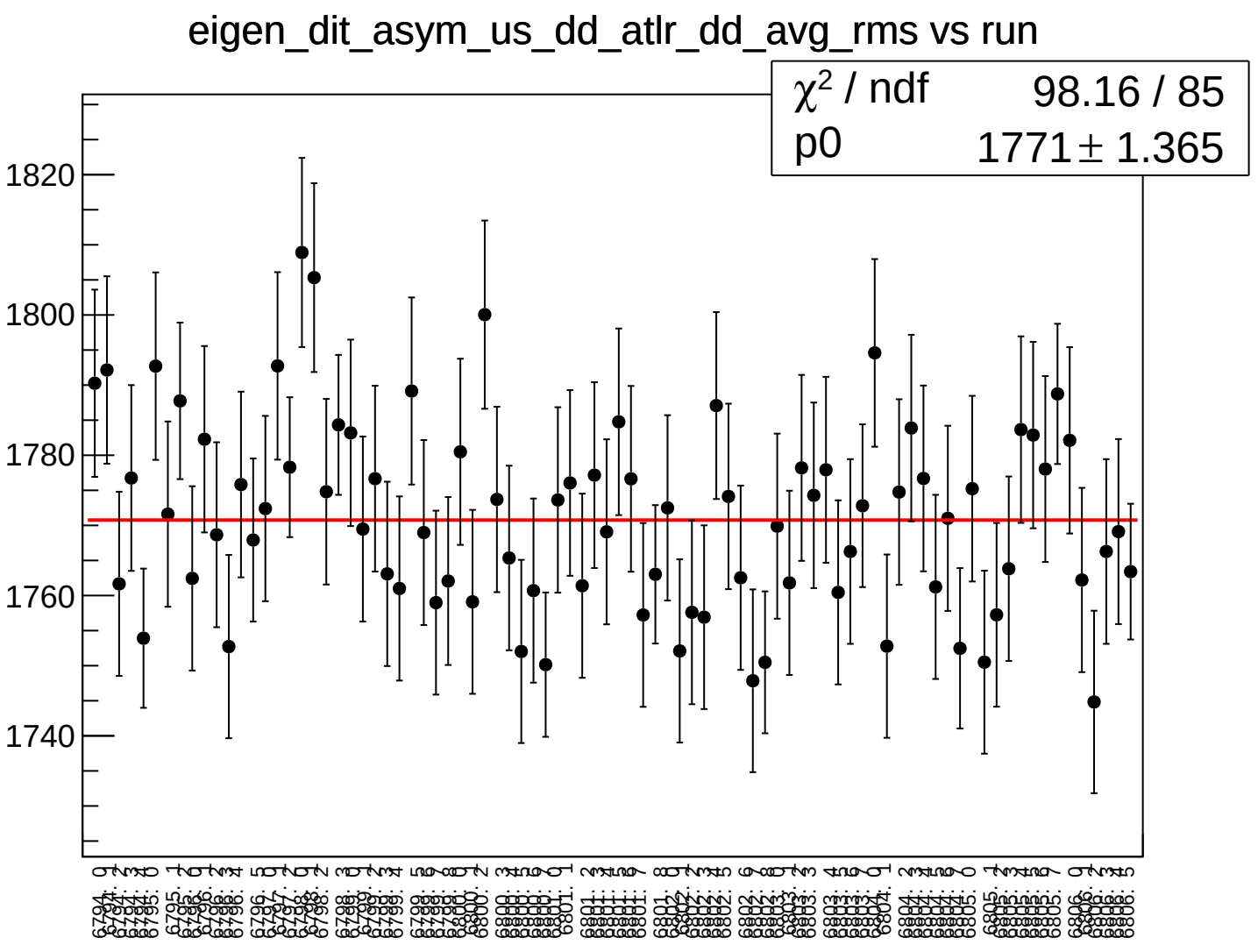

pull1D
Entries 86
Mean 0.01457
Std Dev 1.013

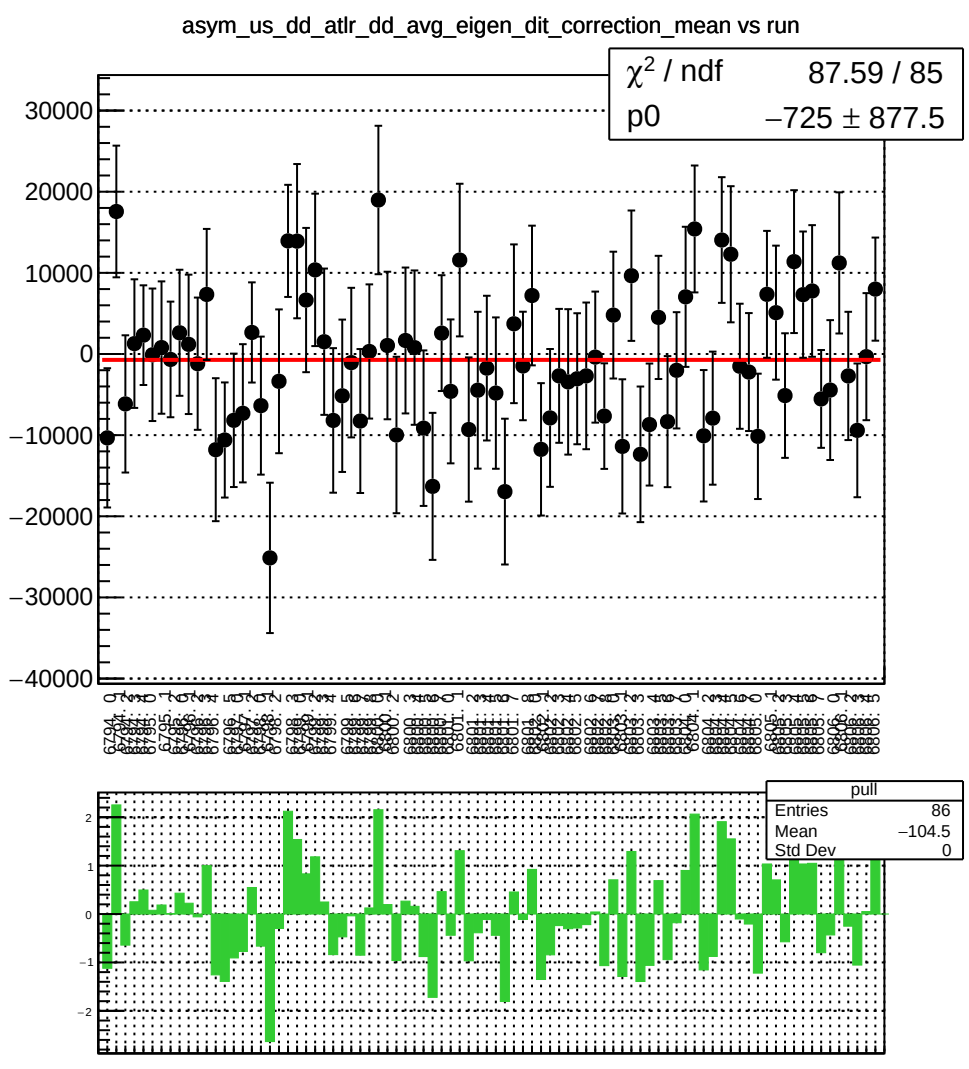

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 98.16 / 85
p0 1771 ± 1.365
1820
1800
1780
1760
1740

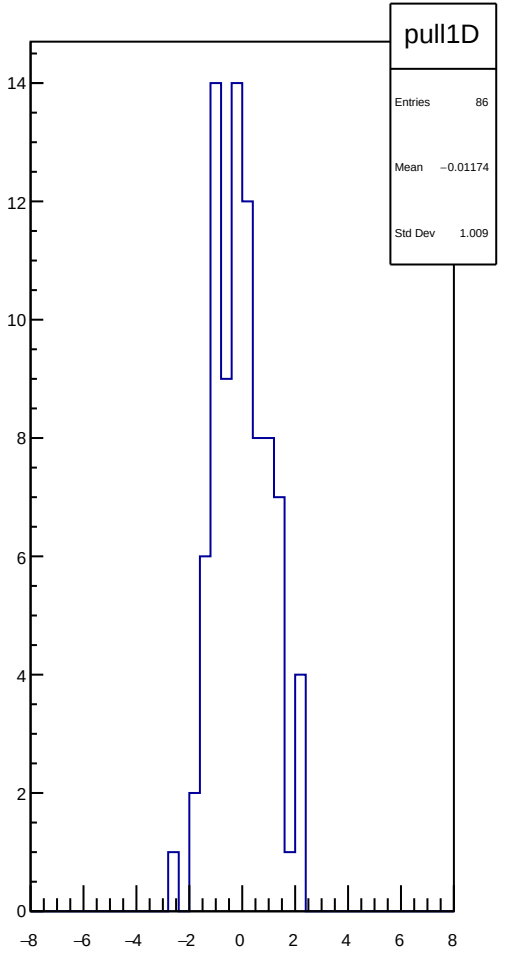

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 87.59 / 85
p0 −725 ± 877.5
pull
Entries 86
Mean −104.5
Std Dev 0
pull1D
Entries 86
Mean −0.01174
Std Dev 1.009

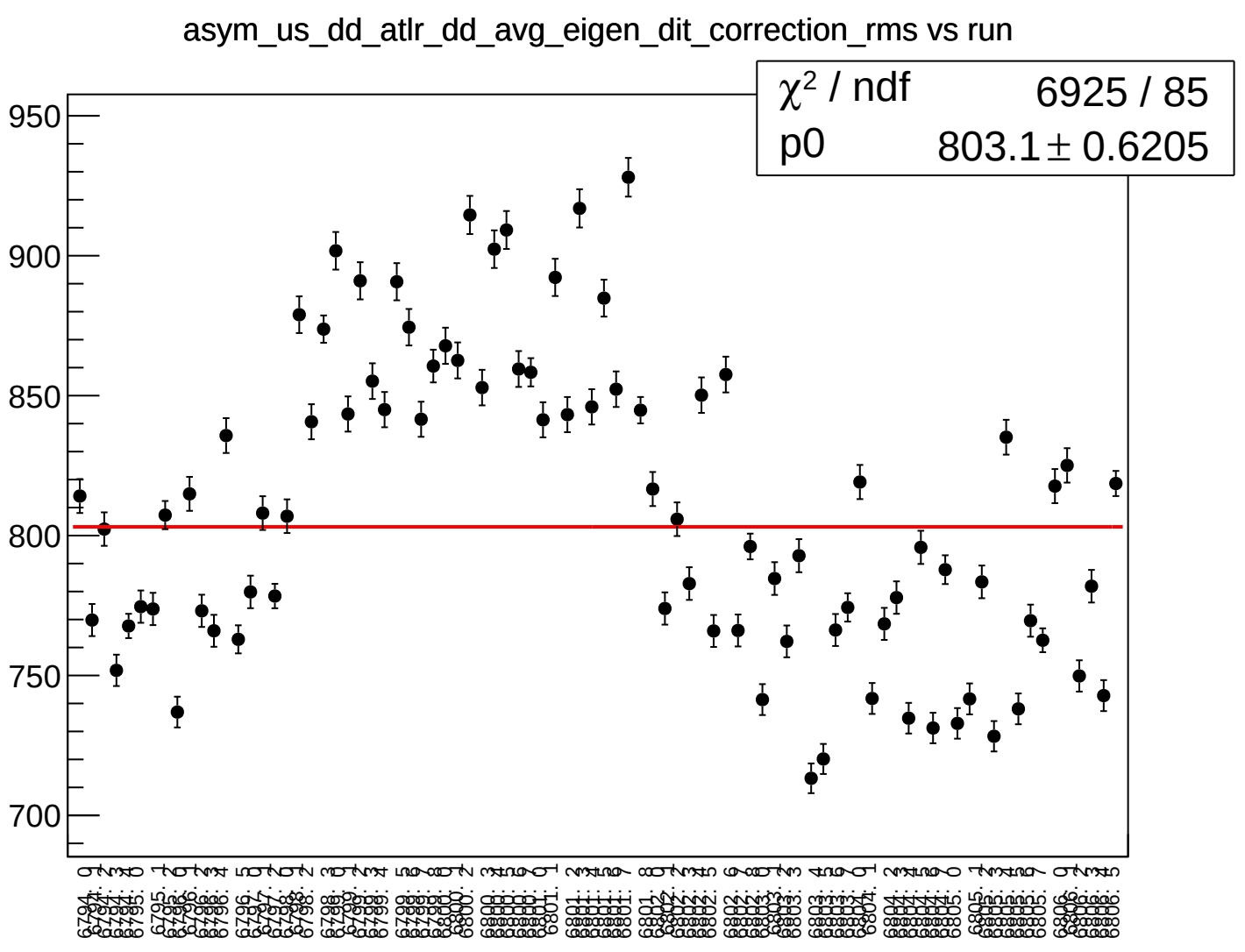

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 6925 / 85
p0 803.1 ± 0.6205
950
900
850
800
750
700

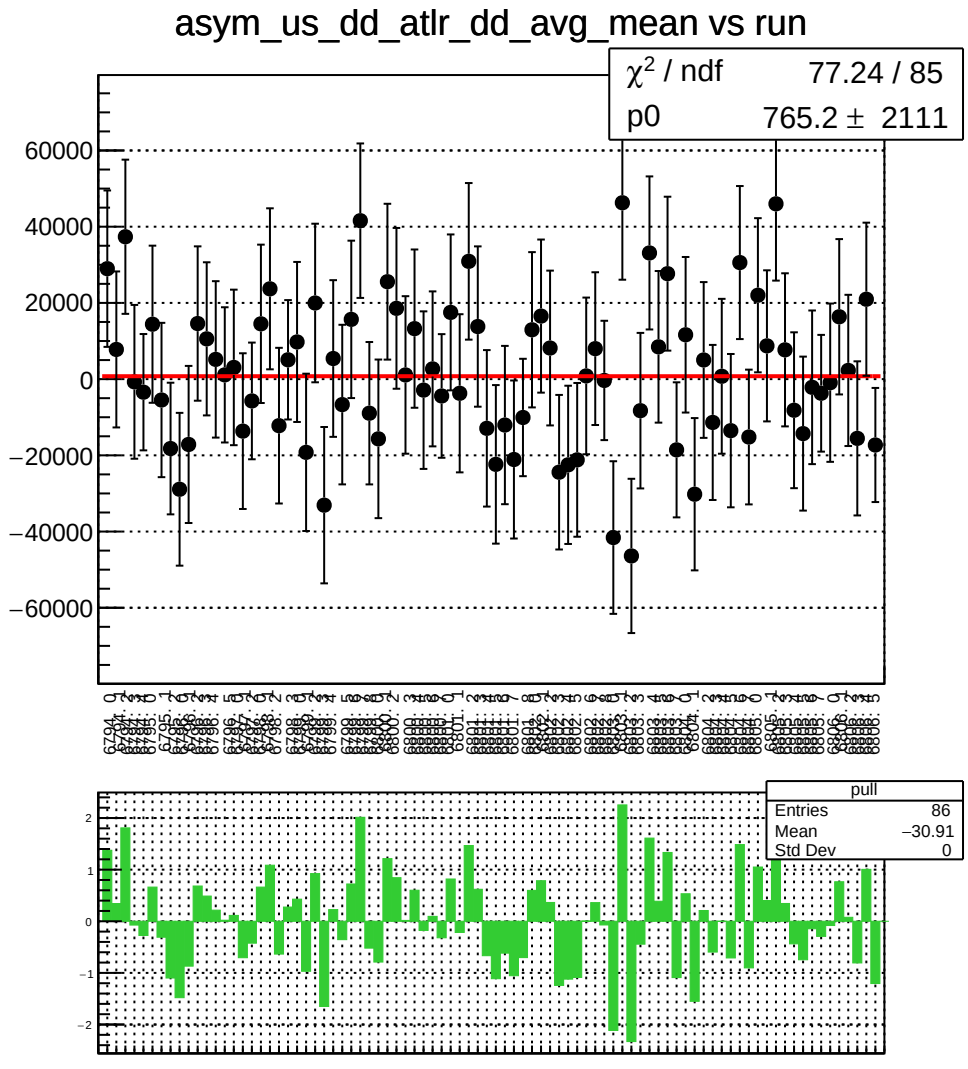

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 88.19 / 85
p0 15.53 ± 1931
pull
Entries 86
Mean −2.256
Std Dev 63.24
pull1D
Entries 86
Mean 0.01457
Std Dev 1.013

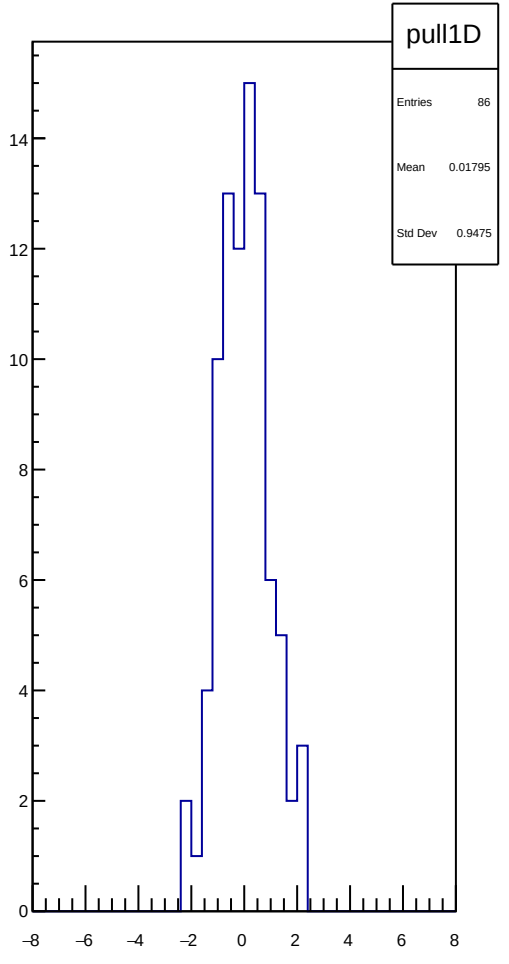

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 98.16 / 85
p0 1771 ± 1.365
1820
1800
1780
1760
1740

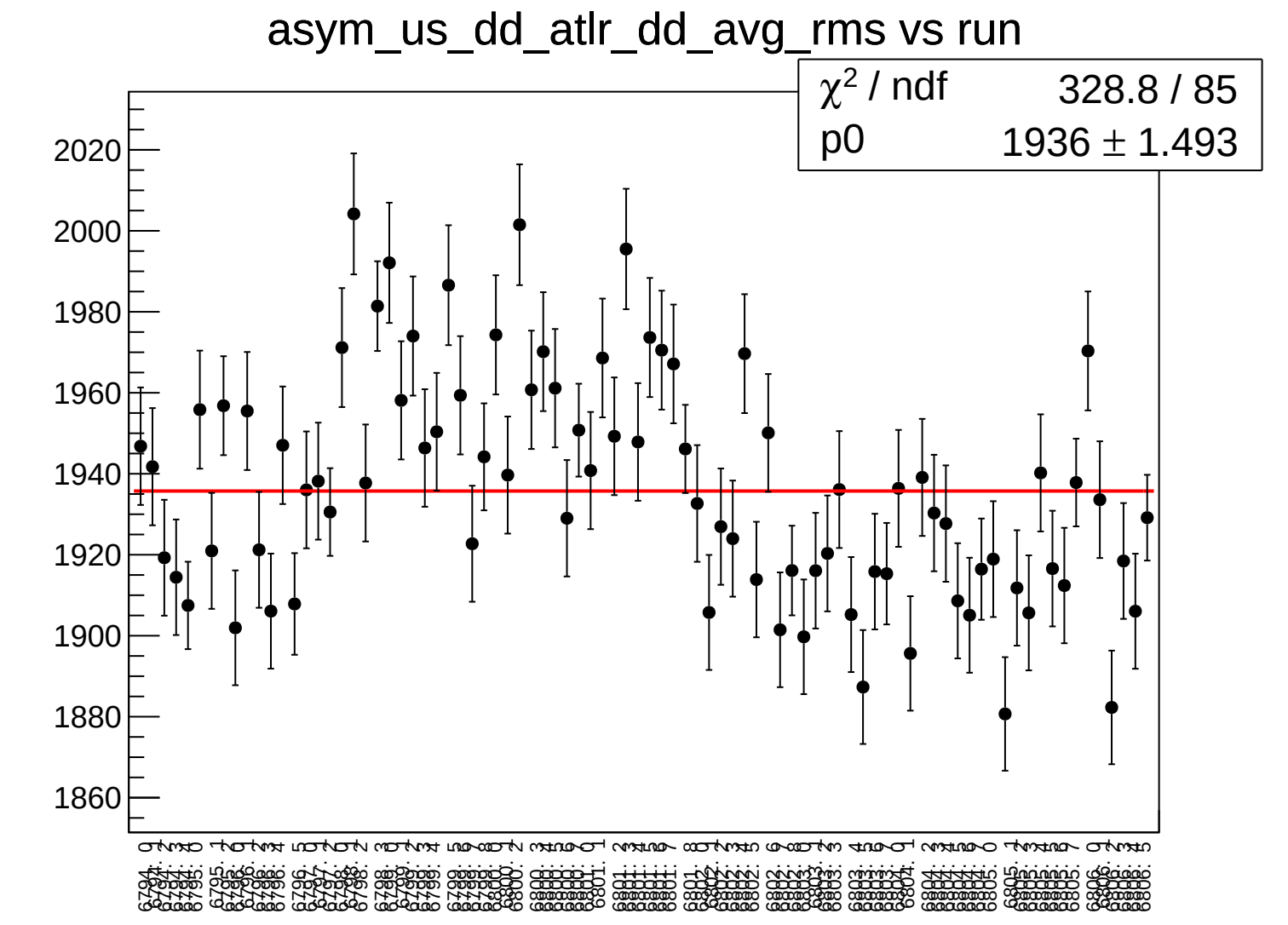

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.59 / 85
p0 −725 ± 877.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −104.5
Std Dev 0
2
1
0
−1
−2

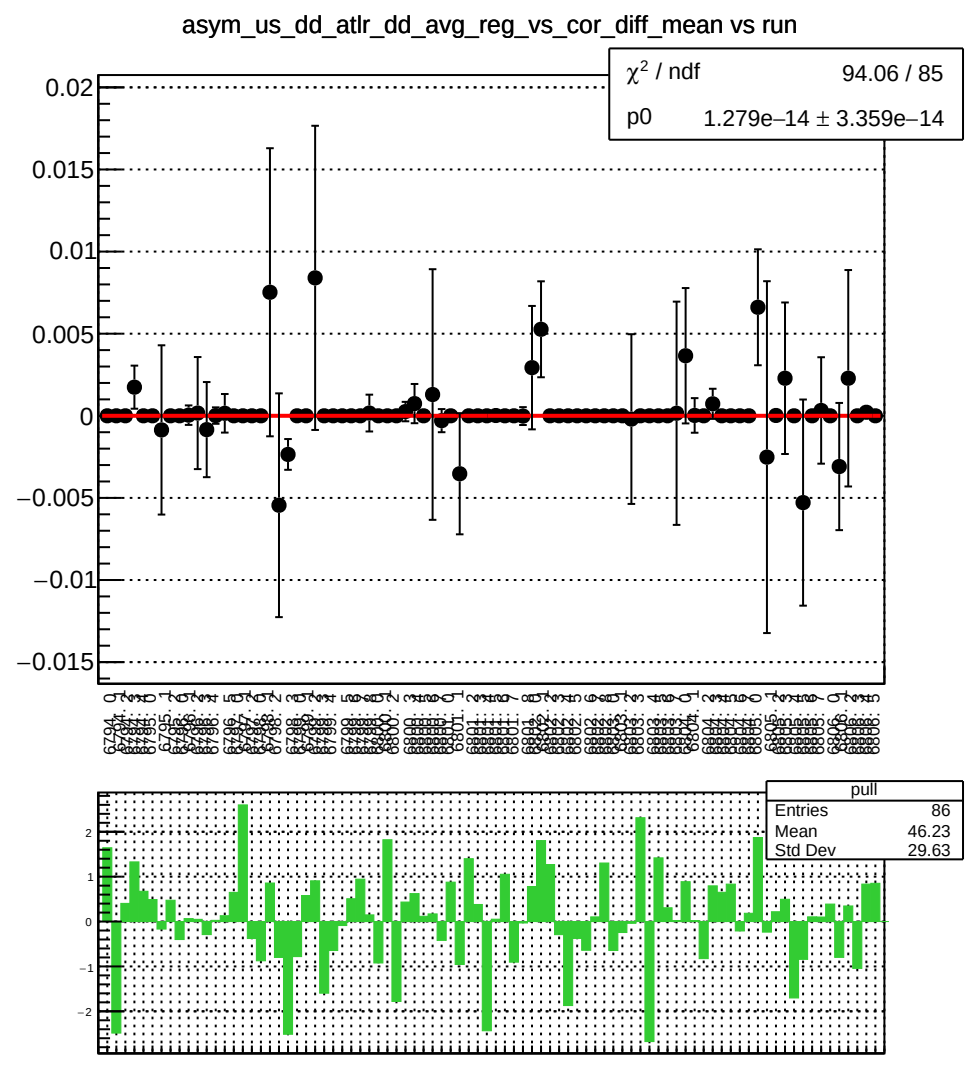

pull1D
Entries 86
Mean −0.01174
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

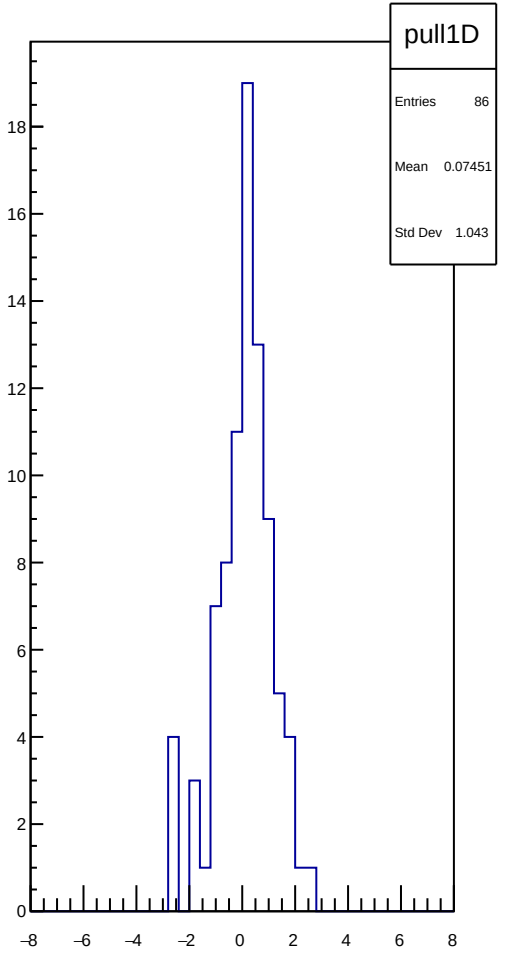

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6925 / 85
p0 803.1 ± 0.6205
950
900
850
800
750
700

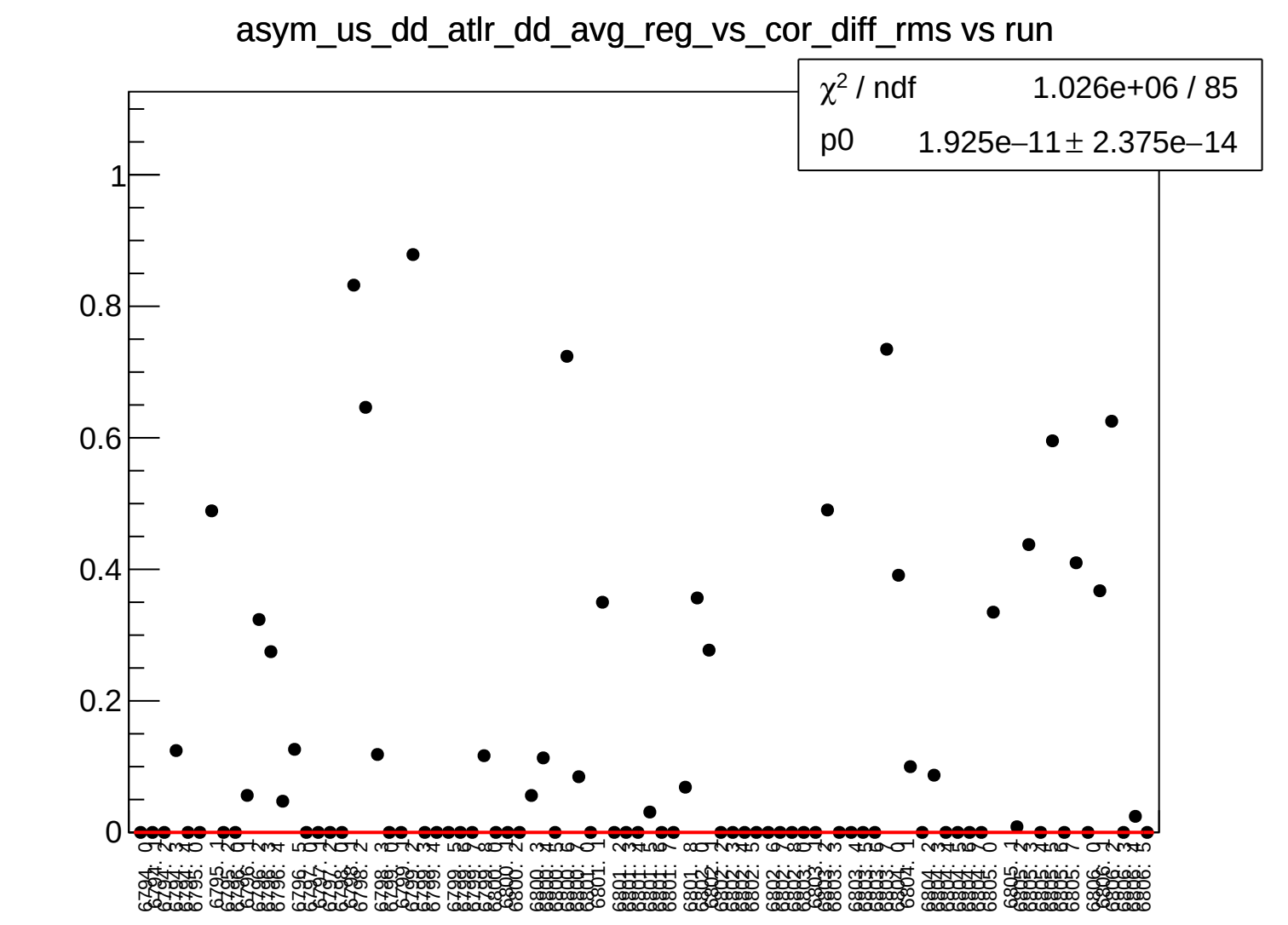

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 77.24 / 85
p0 765.2 ± 2111
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −30.91
Std Dev 0
2
1
0
−1
−2

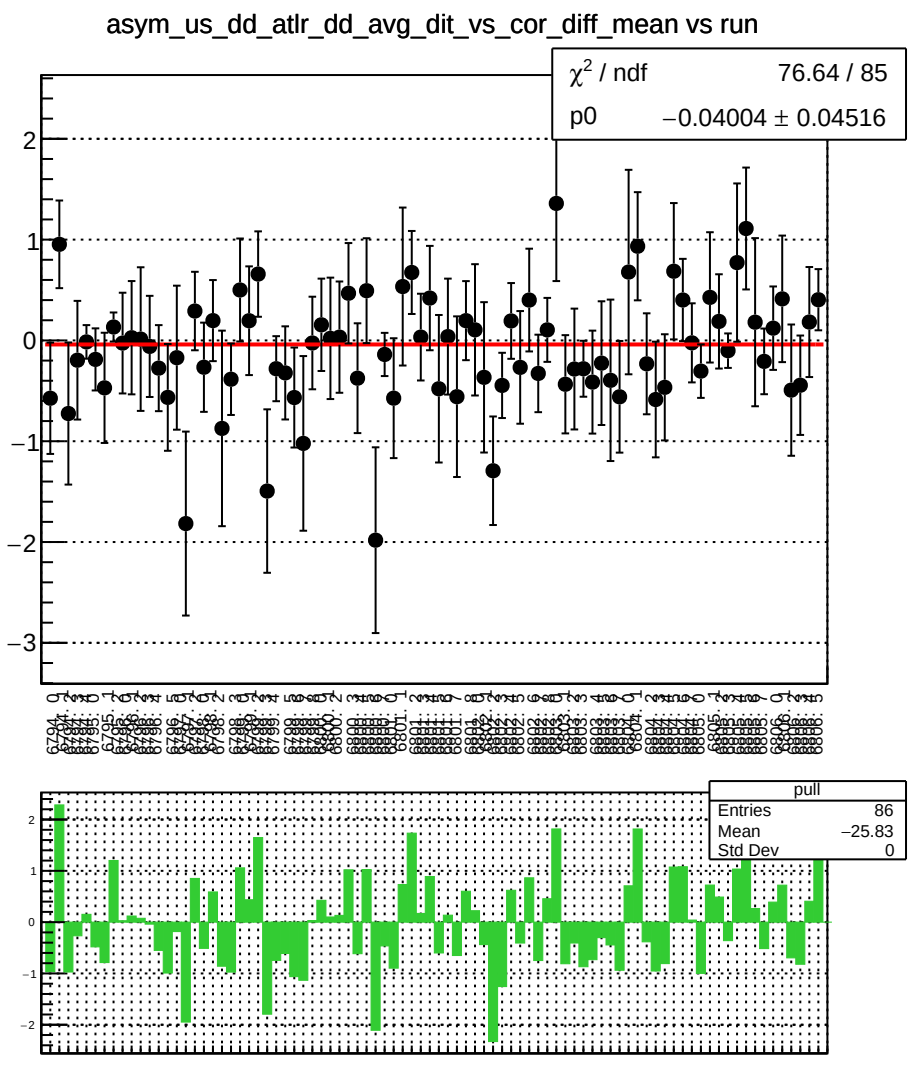

pull1D
Entries 86
Mean 0.01795
Std Dev 0.9475
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

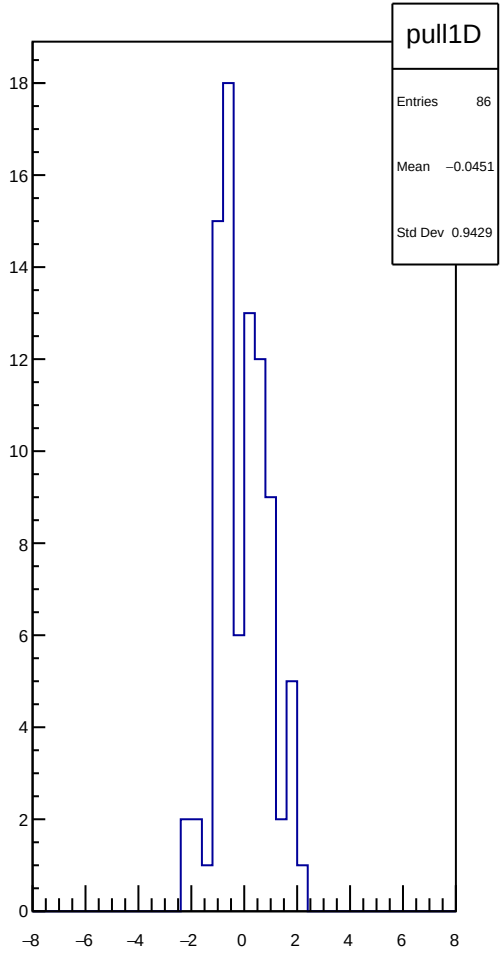

asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 328.8 / 85
p0 1936 ± 1.493
2020
2000
1980
1960
1940
1920
1900
1880
1860

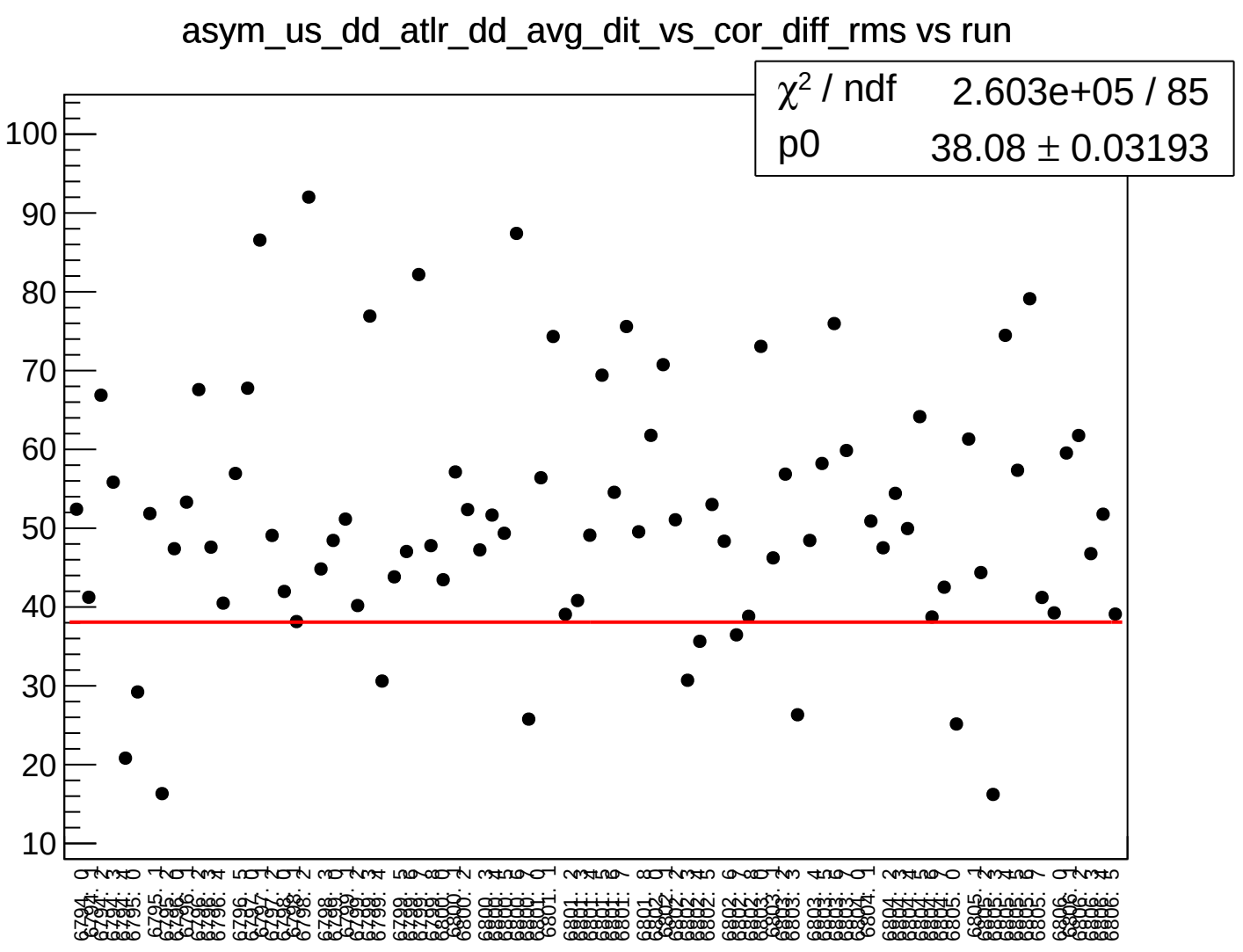

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 94.06 / 85
p0 1.279e−14 ± 3.359e−14
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 46.23
Std Dev 29.63
2
1
0
−1
−2

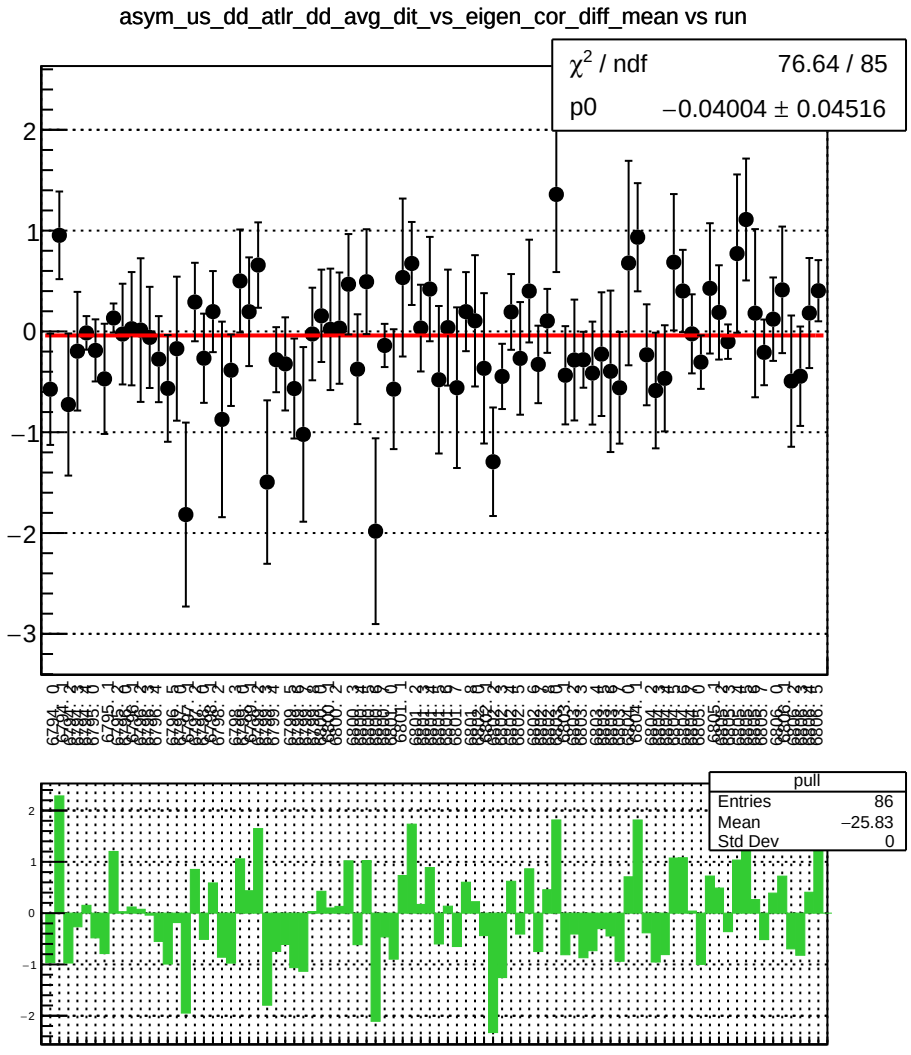

pull1D
Entries 86
Mean 0.07451
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

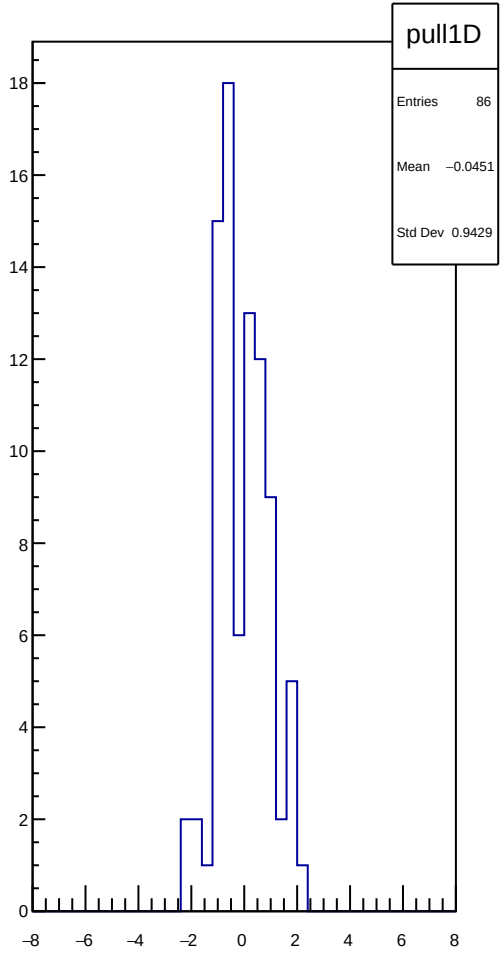

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.026e+06 / 85
p0 1.925e−11 ± 2.375e−14
1
0.8
0.6
0.4
0.2
0

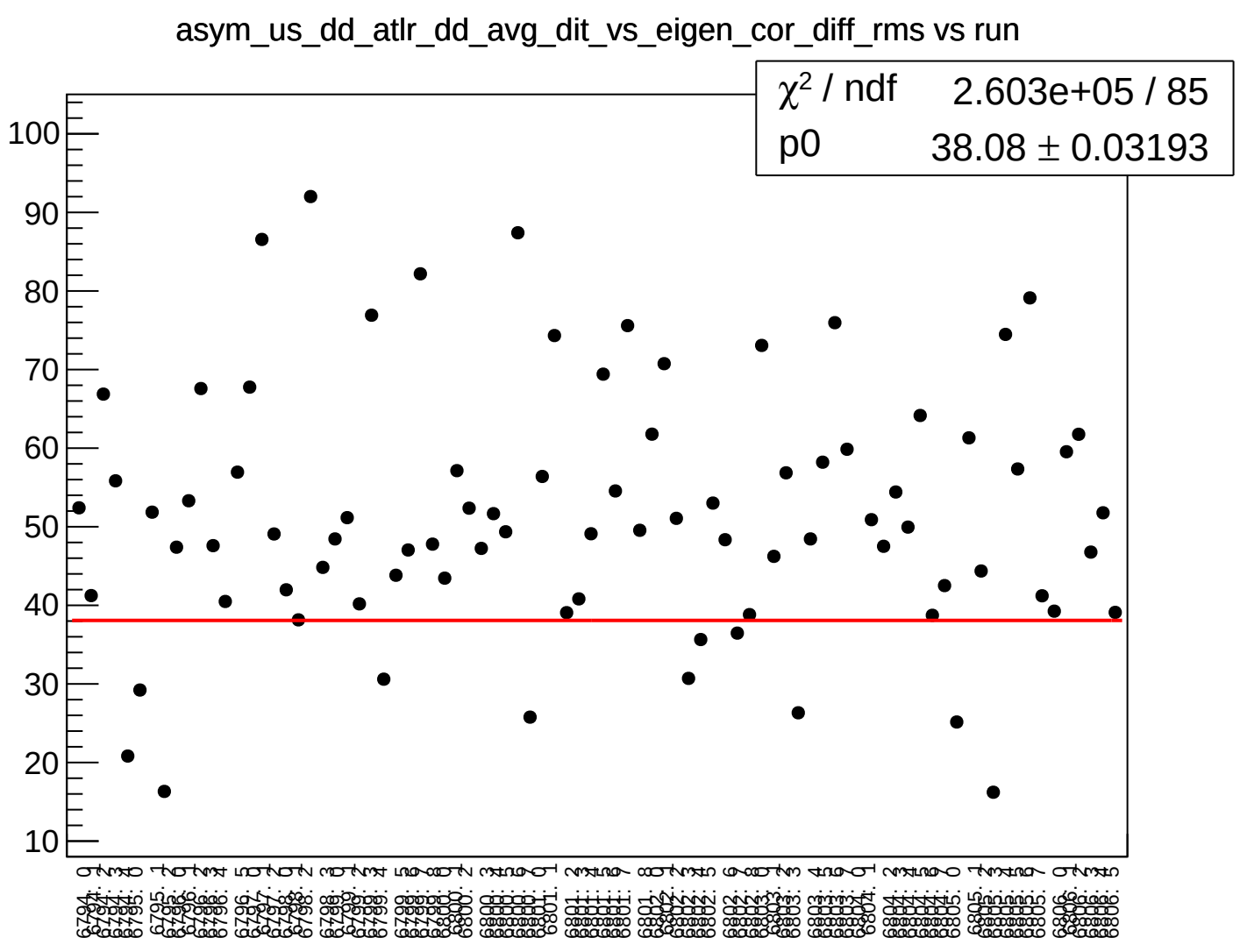

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 76.64 / 85
p0 −0.04004 ± 0.04516
pull
Entries 86
Mean −25.83
Std Dev 0

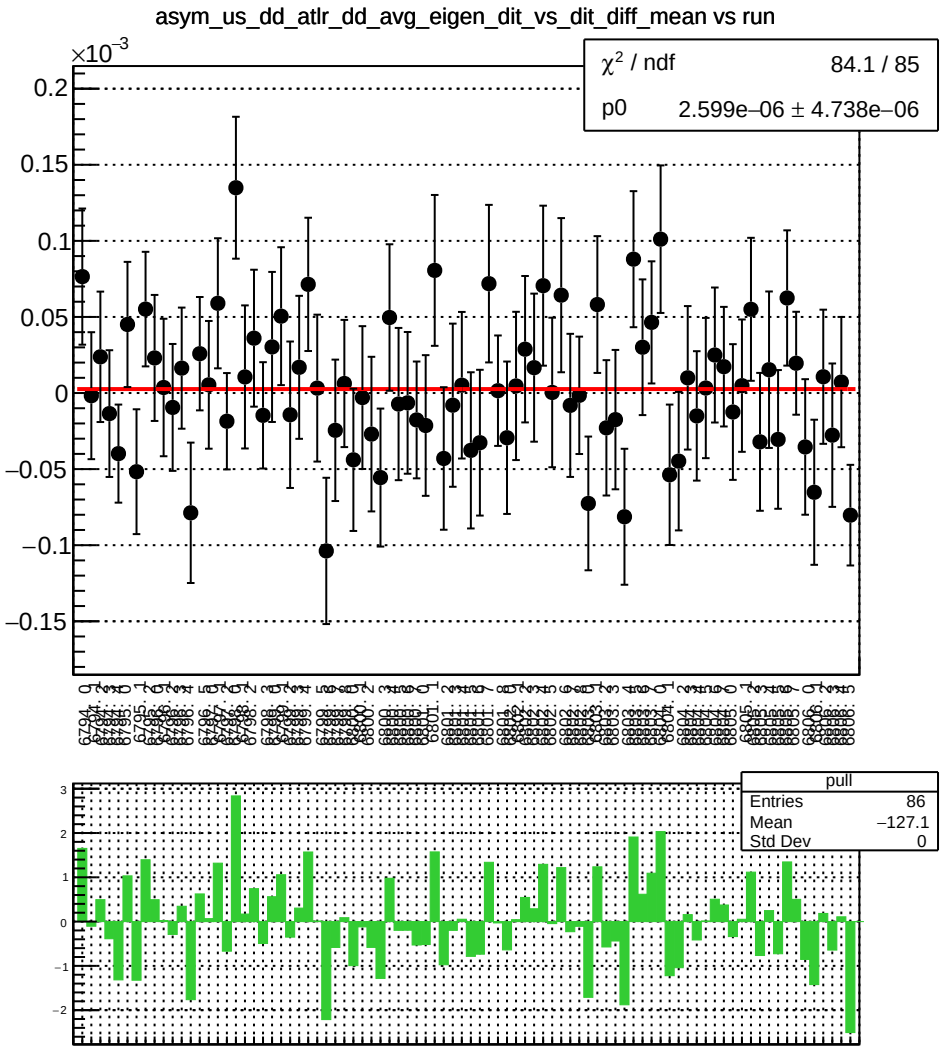

pull1D
Entries 86
Mean −0.0451
Std Dev 0.9429

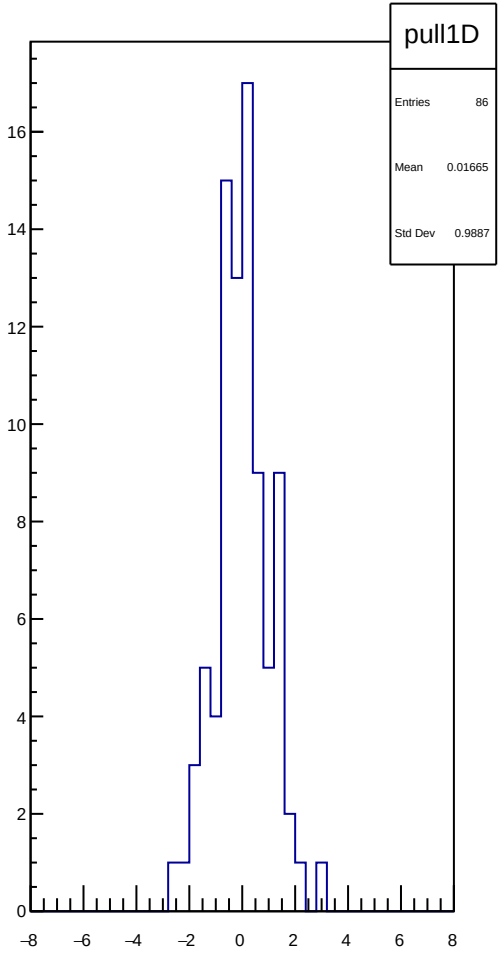

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.603e+05 / 85
p0 38.08 ± 0.03193
100
90
80
70
60
50
40
30
20
10

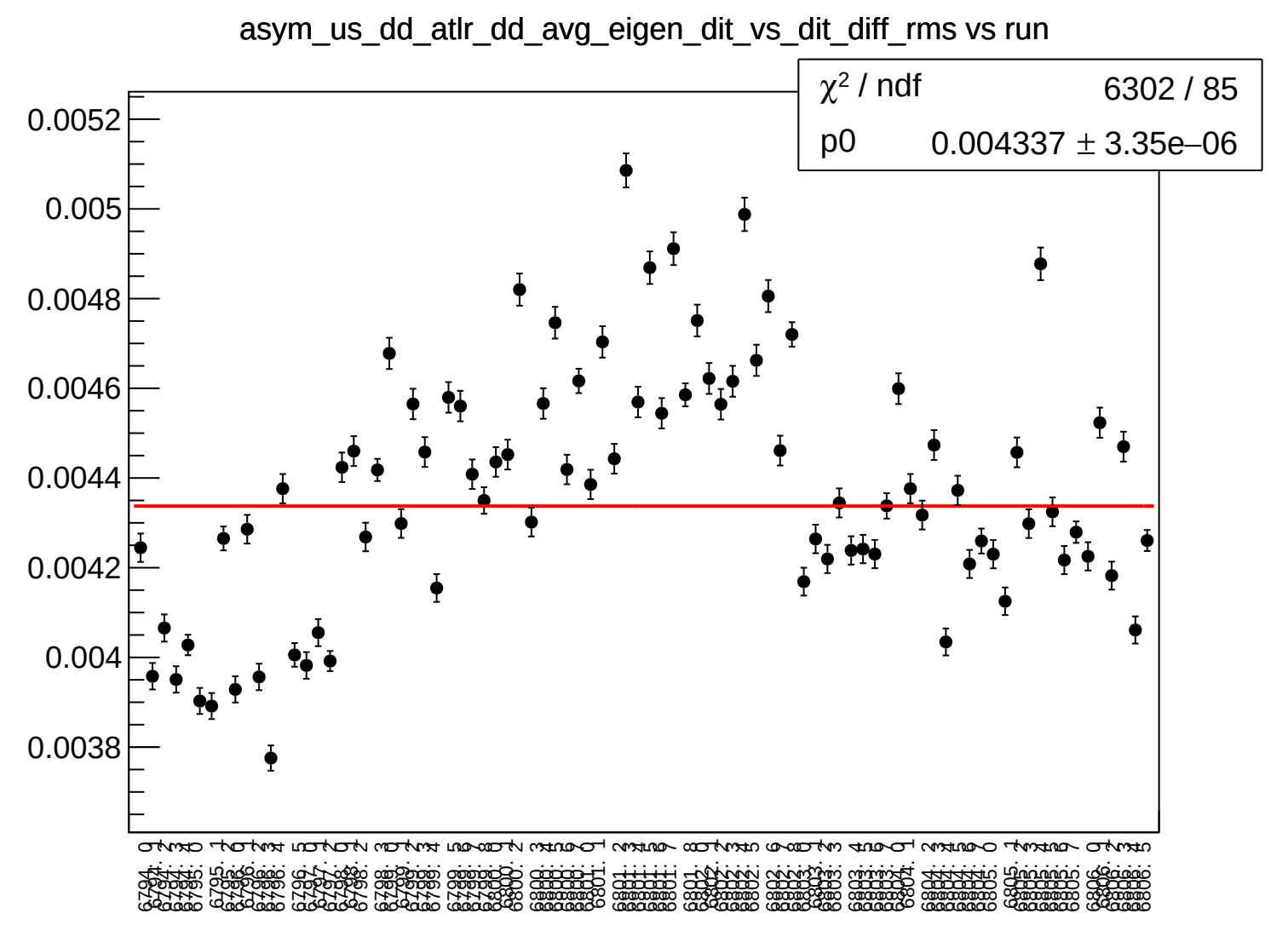

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.64 / 85
p0 −0.04004 ± 0.04516
pull
Entries 86
Mean −25.83
Std Dev 0

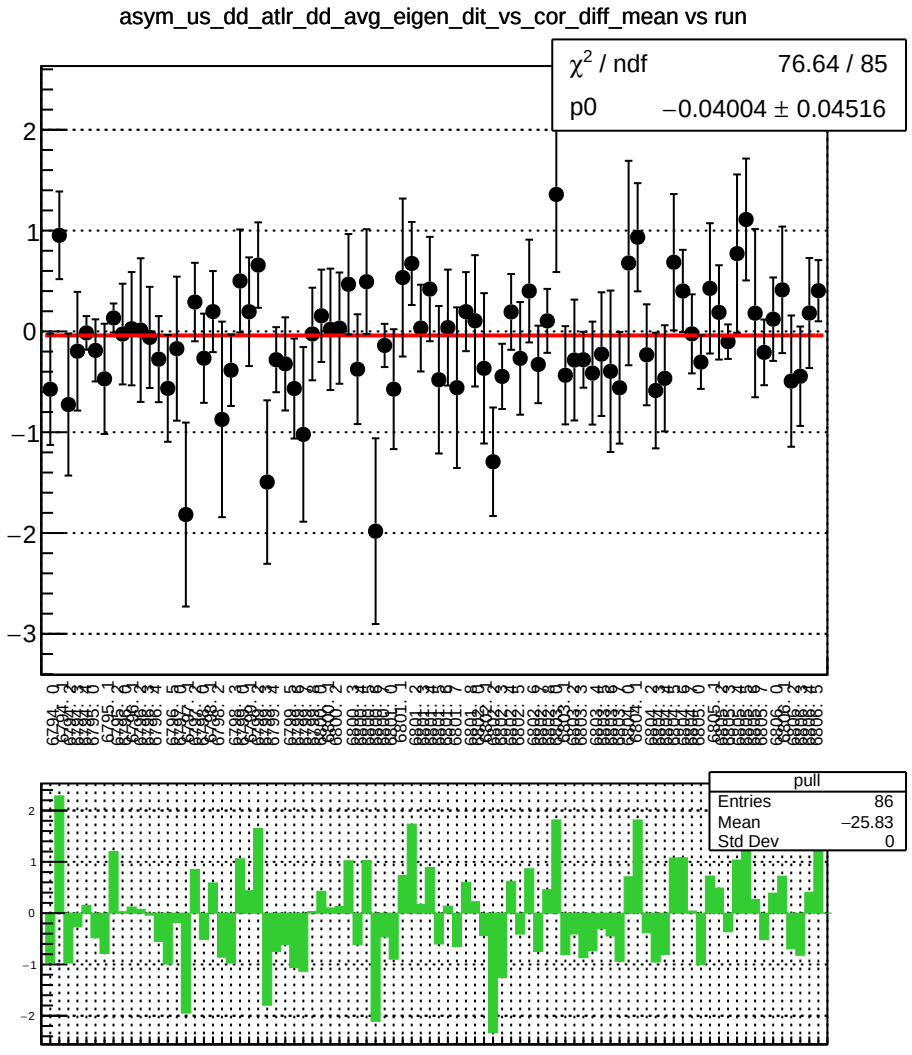

pull1D
Entries 86
Mean −0.0451
Std Dev 0.9429

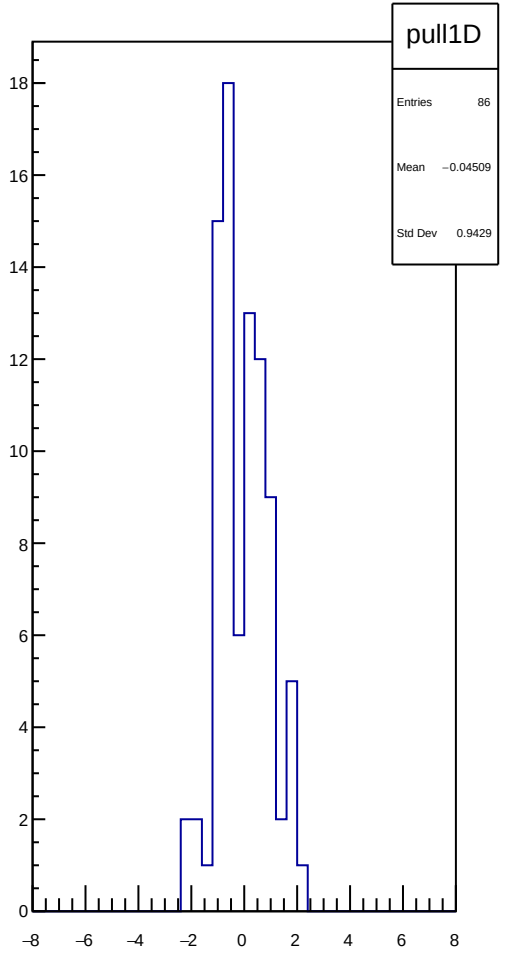

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.603e+05 / 85
p0 38.08 ± 0.03193
100
90
80
70
60
50
40
30
20
10

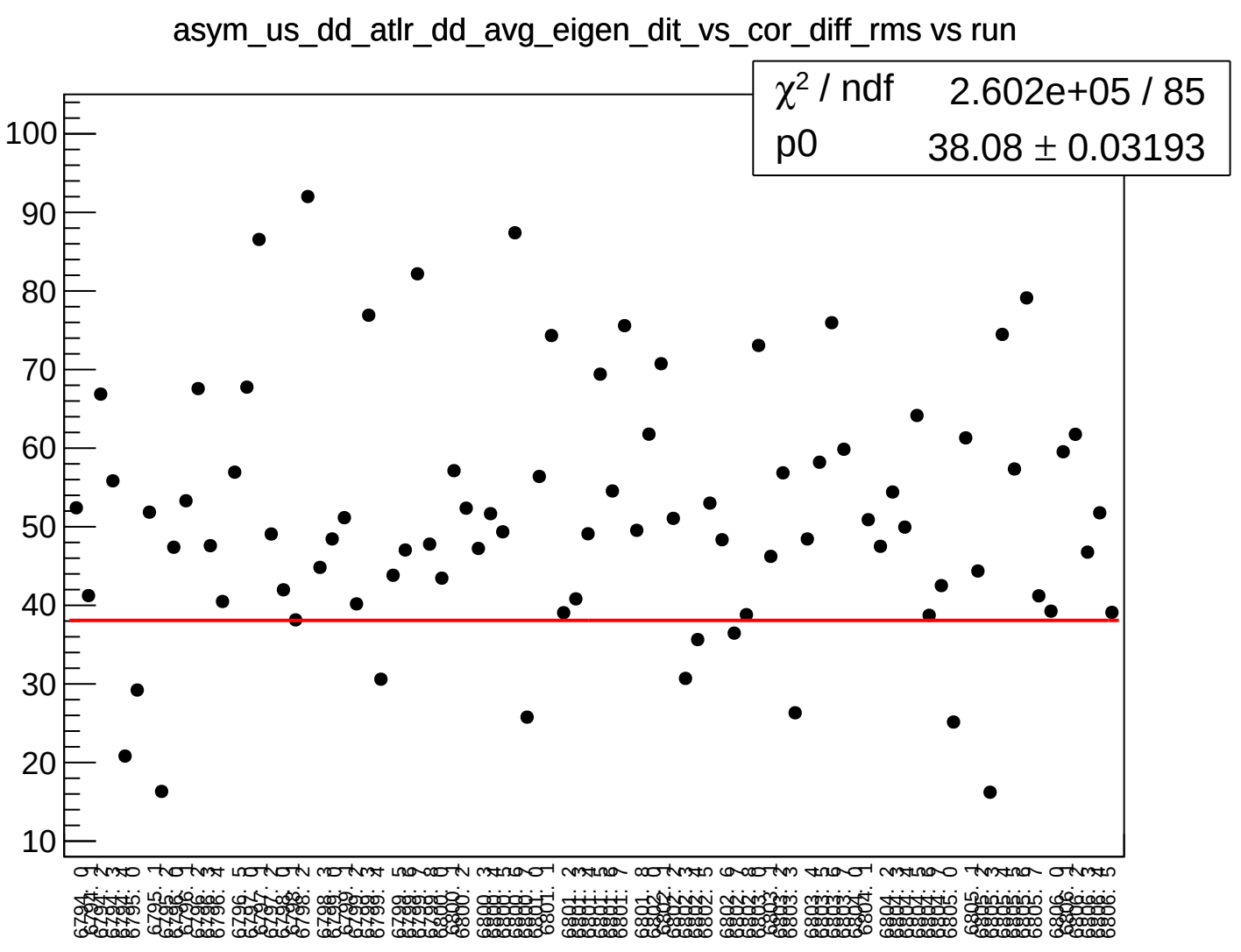

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.1 / 85
p0 2.599e−06 ± 4.738e−06
pull
Entries 86
Mean −127.1
Std Dev 0

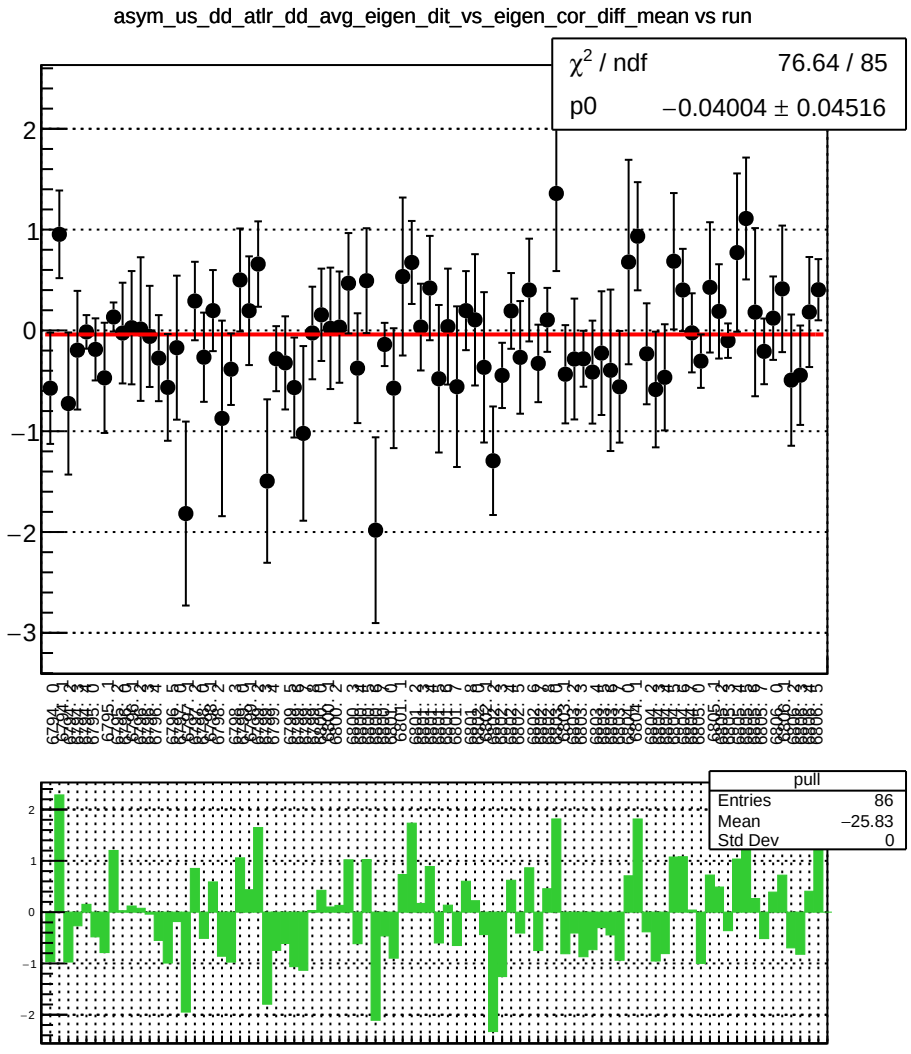

pull1D
Entries 86
Mean 0.01665
Std Dev 0.9887

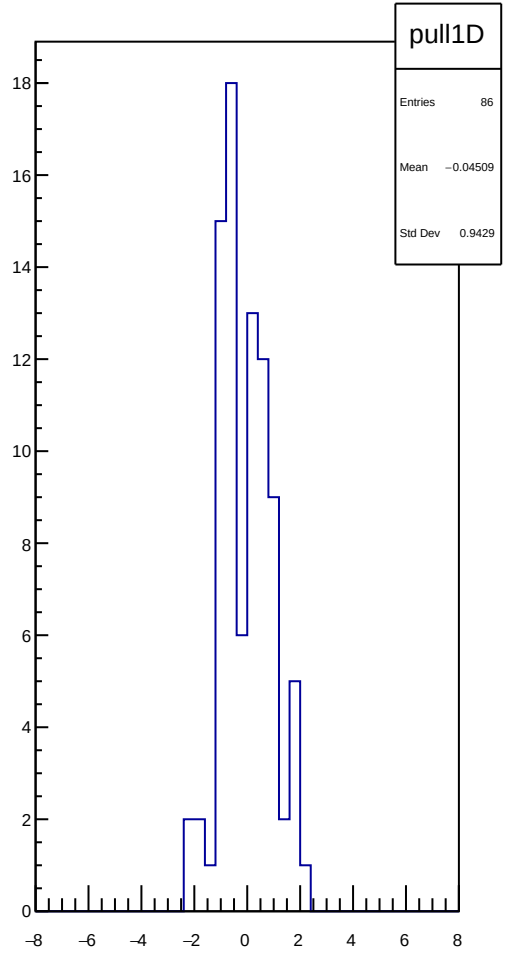

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6302 / 85
p0 0.004337 ± 3.35e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

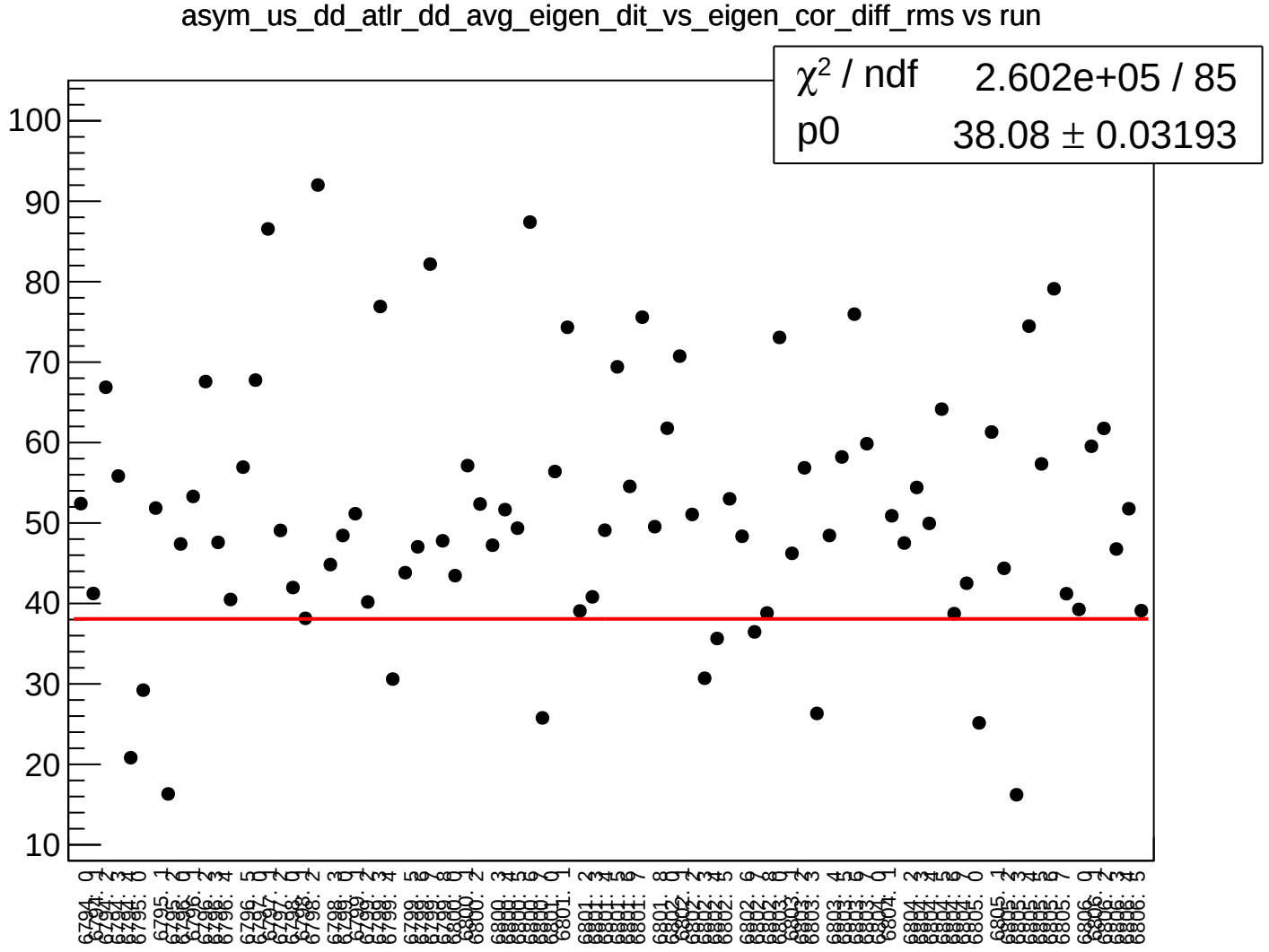

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.64 / 85
p0 −0.04004 ± 0.04516
pull
Entries 86
Mean −25.83
Std Dev 0

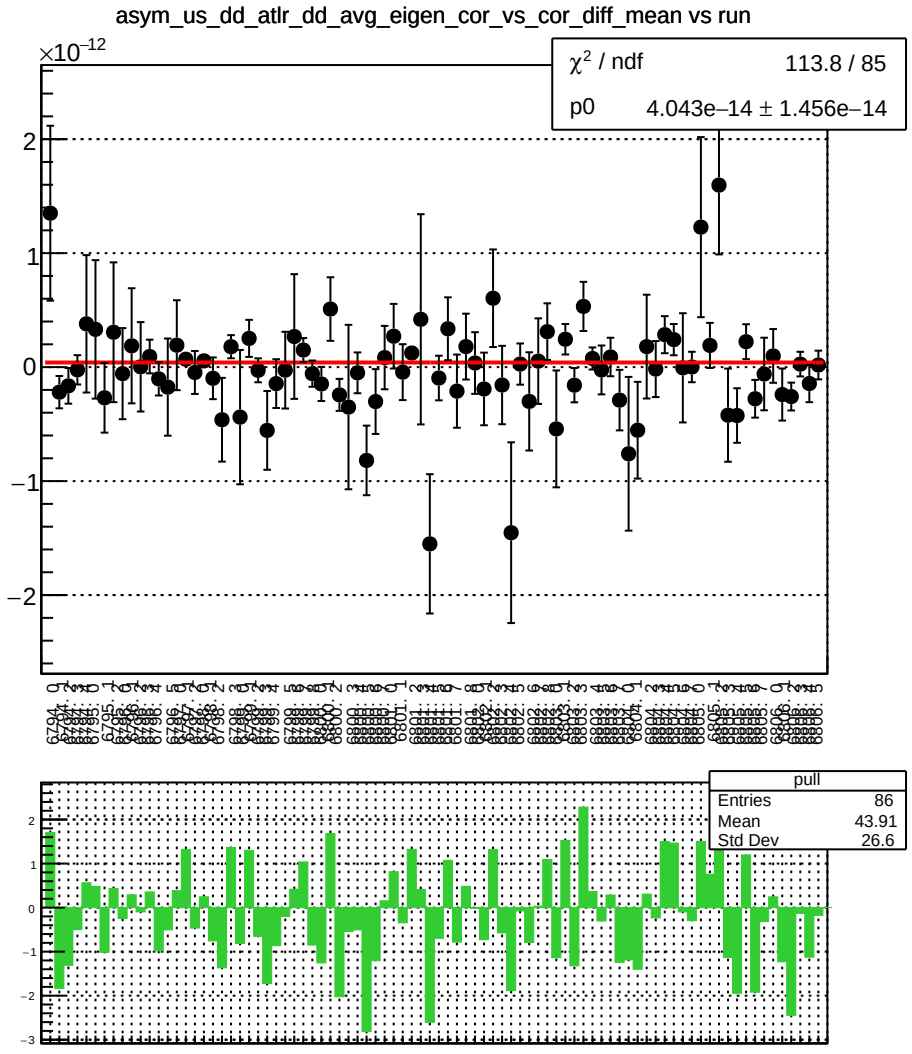

pull1D
Entries 86
Mean −0.04509
Std Dev 0.9429

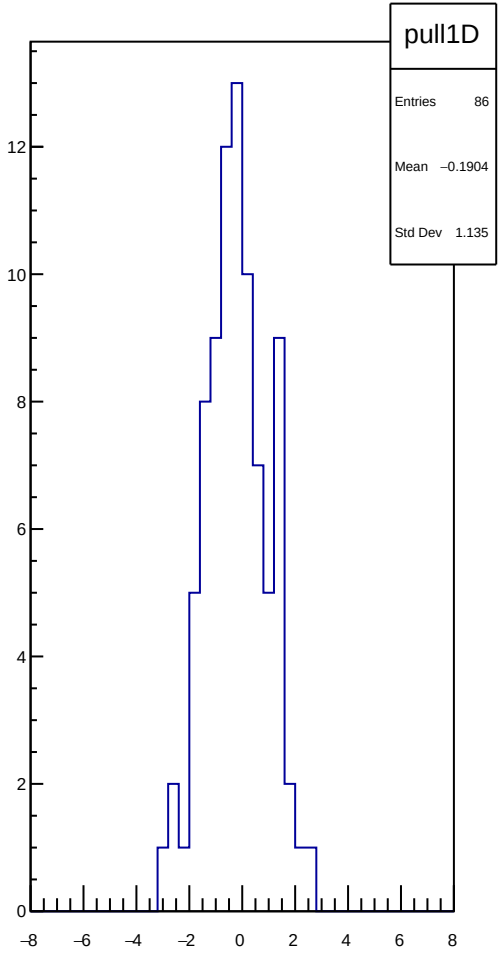

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 85
p0 38.08 ± 0.03193
100
90
80
70
60
50
40
30
20
10

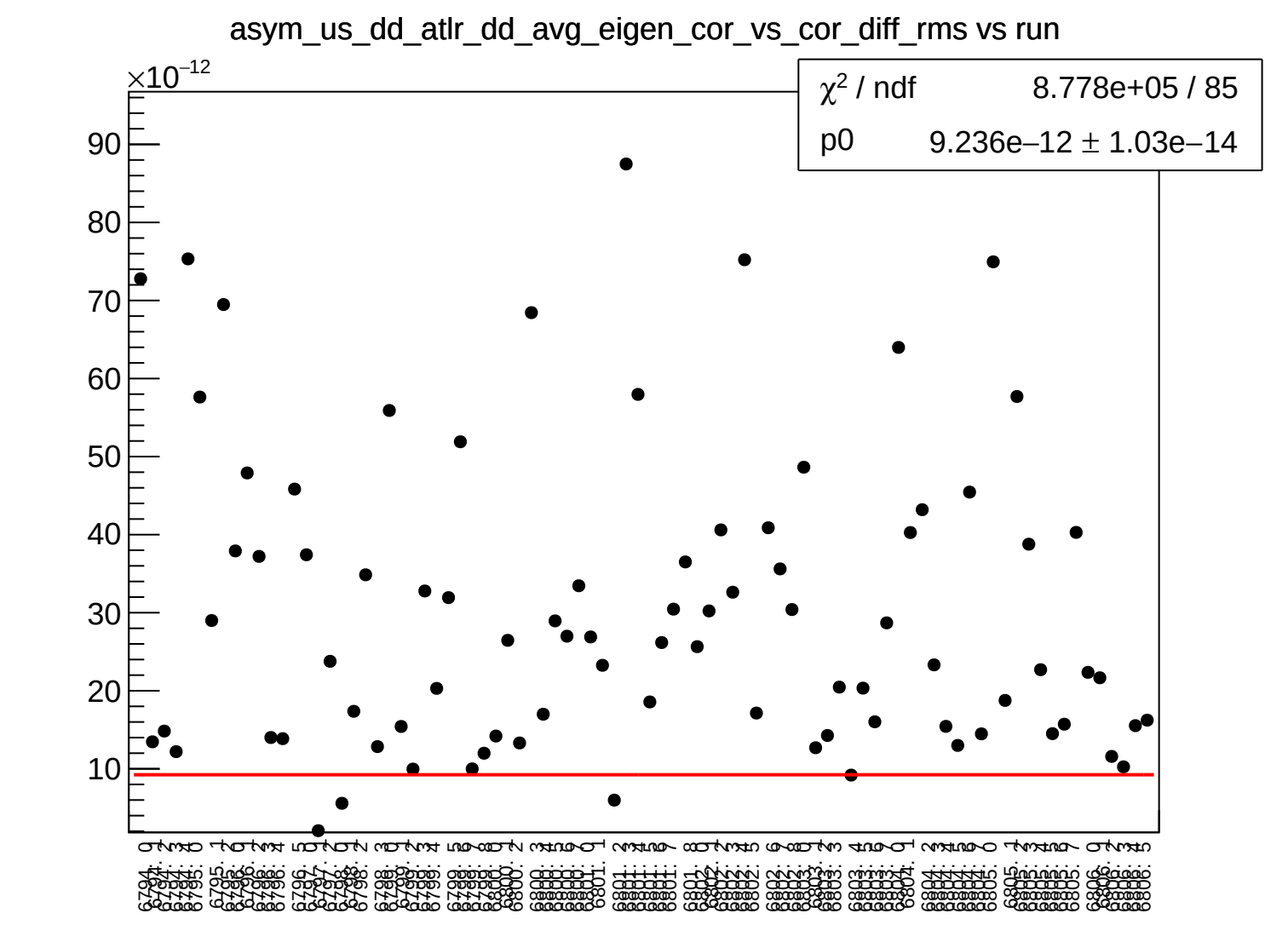

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.64 / 85
p0 −0.04004 ± 0.04516
pull
Entries 86
Mean −25.83
Std Dev 0

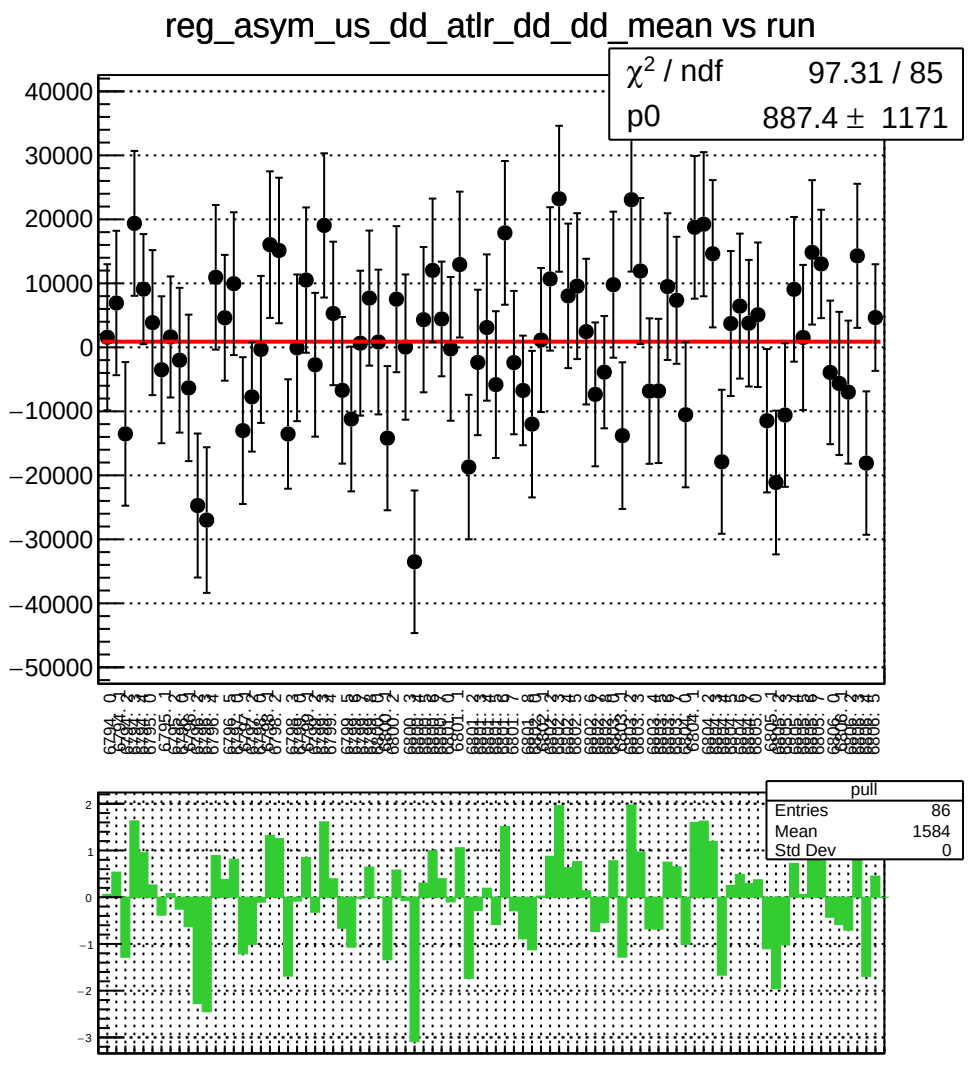

pull1D
Entries 86
Mean −0.04509
Std Dev 0.9429

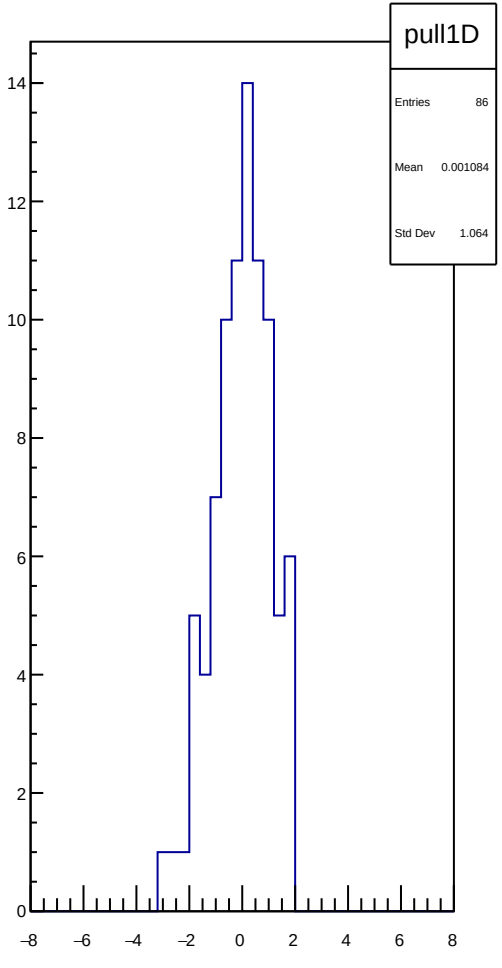

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.602e+05 / 85
p0 38.08 ± 0.03193
100
90
80
70
60
50
40
30
20
10

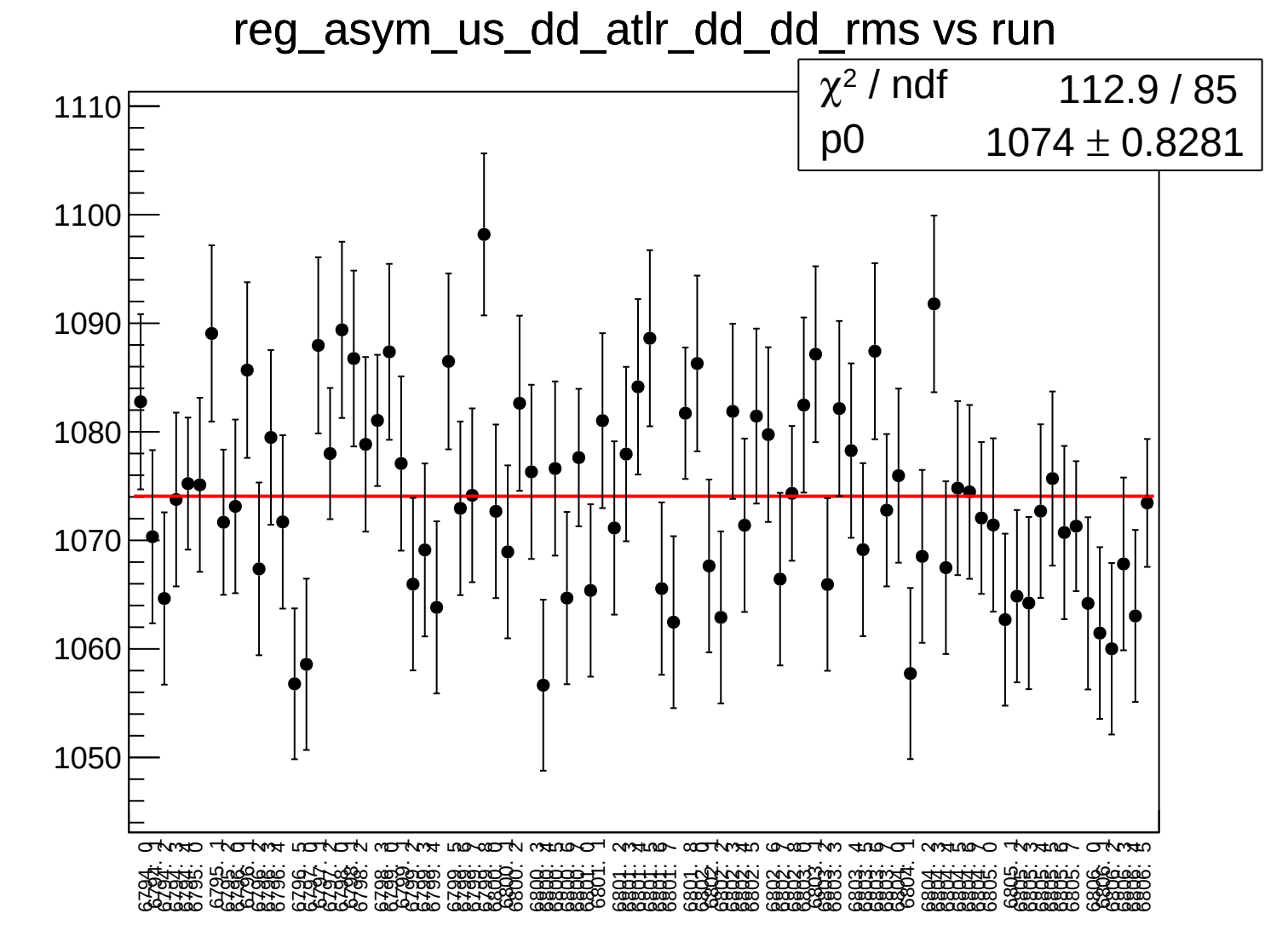

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.8 / 85
p0 4.043e−14 ± 1.456e−14
pull
Entries 86
Mean 43.91
Std Dev 26.6

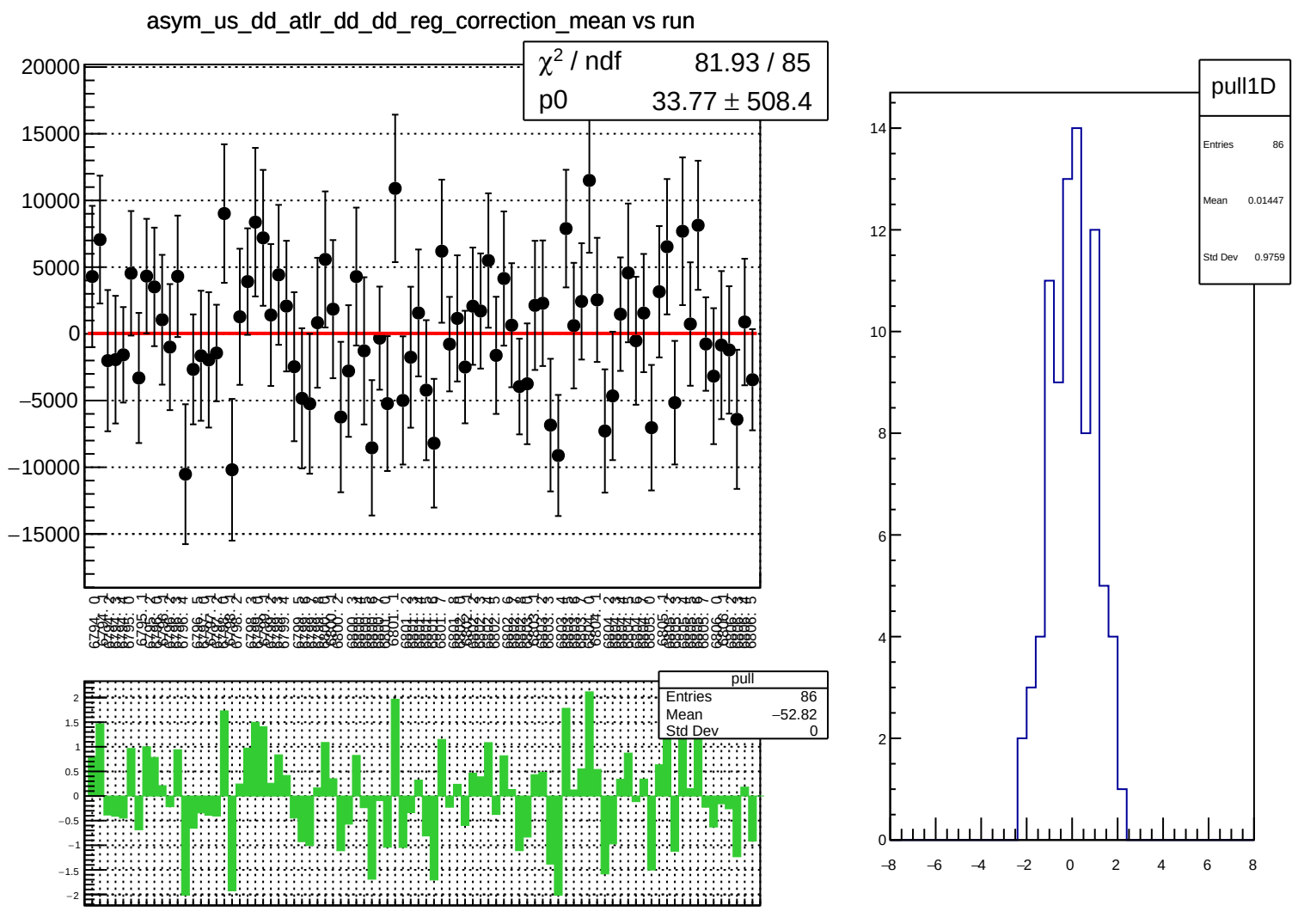

pull1D
Entries 86
Mean −0.1904
Std Dev 1.135

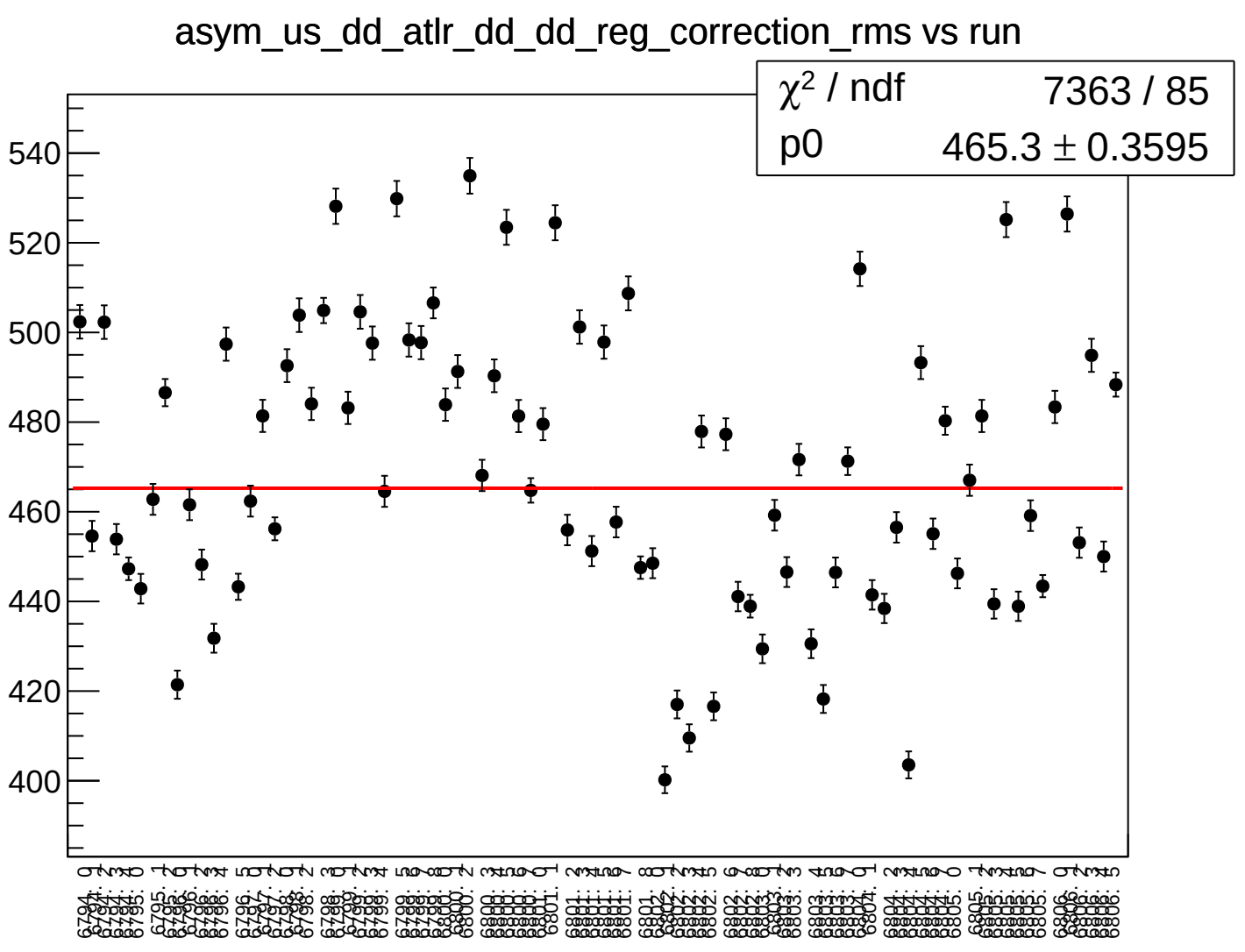

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.778e+05 / 85
p0 9.236e−12 ± 1.03e−14
90
80
70
60
50
40
30
20
10

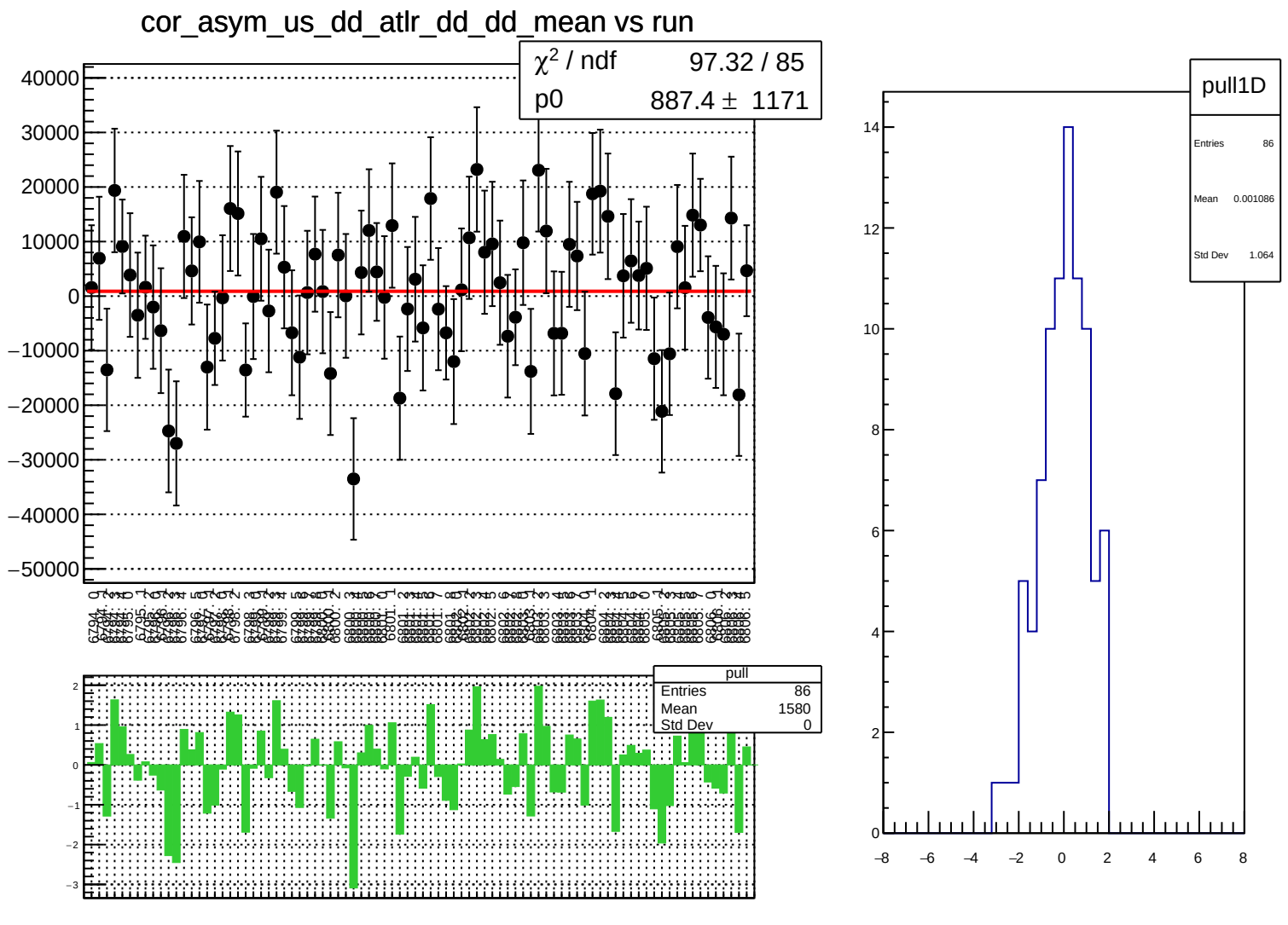

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.31 / 85
p0 887.4 ± 1171
pull
Entries 86
Mean 1584
Std Dev 0

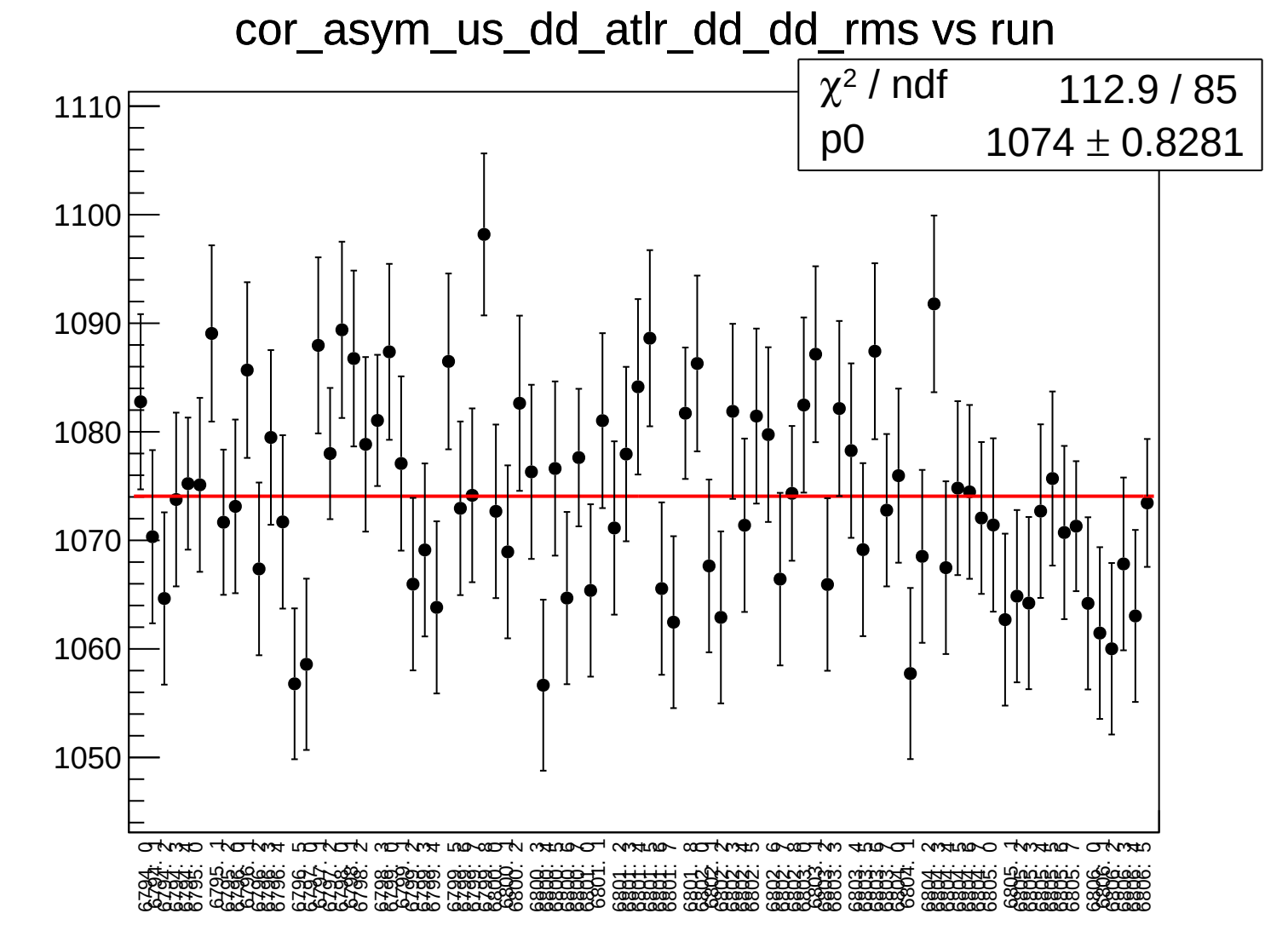

pull1D
Entries 86
Mean 0.001084
Std Dev 1.064

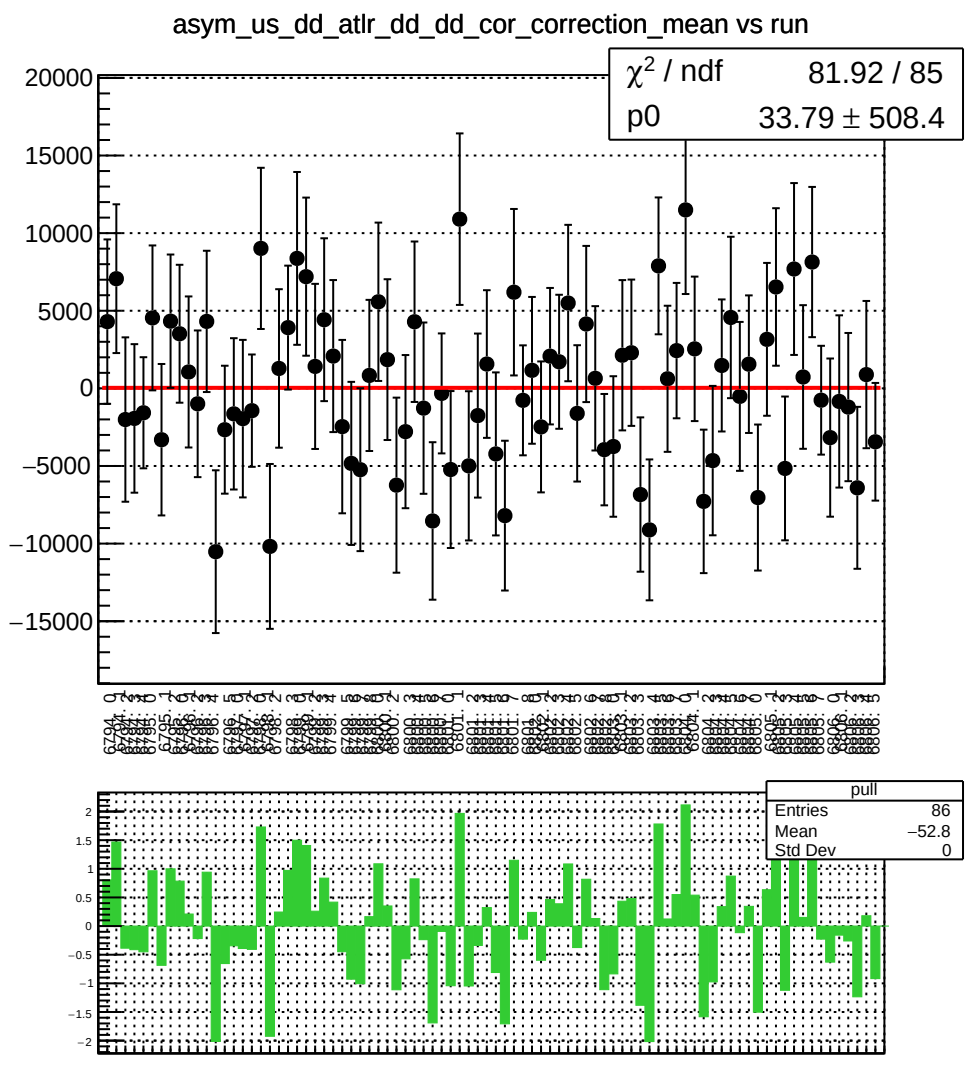

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 112.9 / 85
p0 1074 ± 0.8281
1110
1100
1090
1080
1070
1060
1050

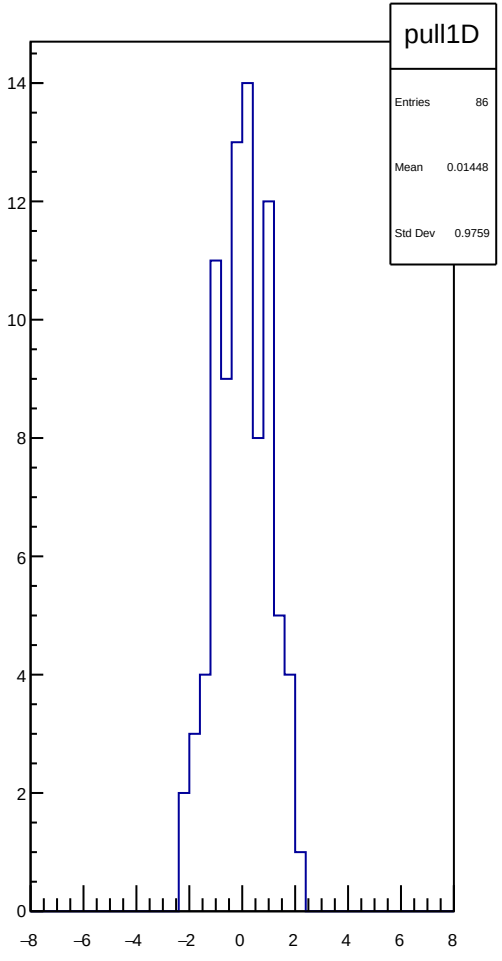

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 81.93 / 85
p0 33.77 ± 508.4
pull
Entries 86
Mean −52.82
Std Dev 0
pull1D
Entries 86
Mean 0.01447
Std Dev 0.9759

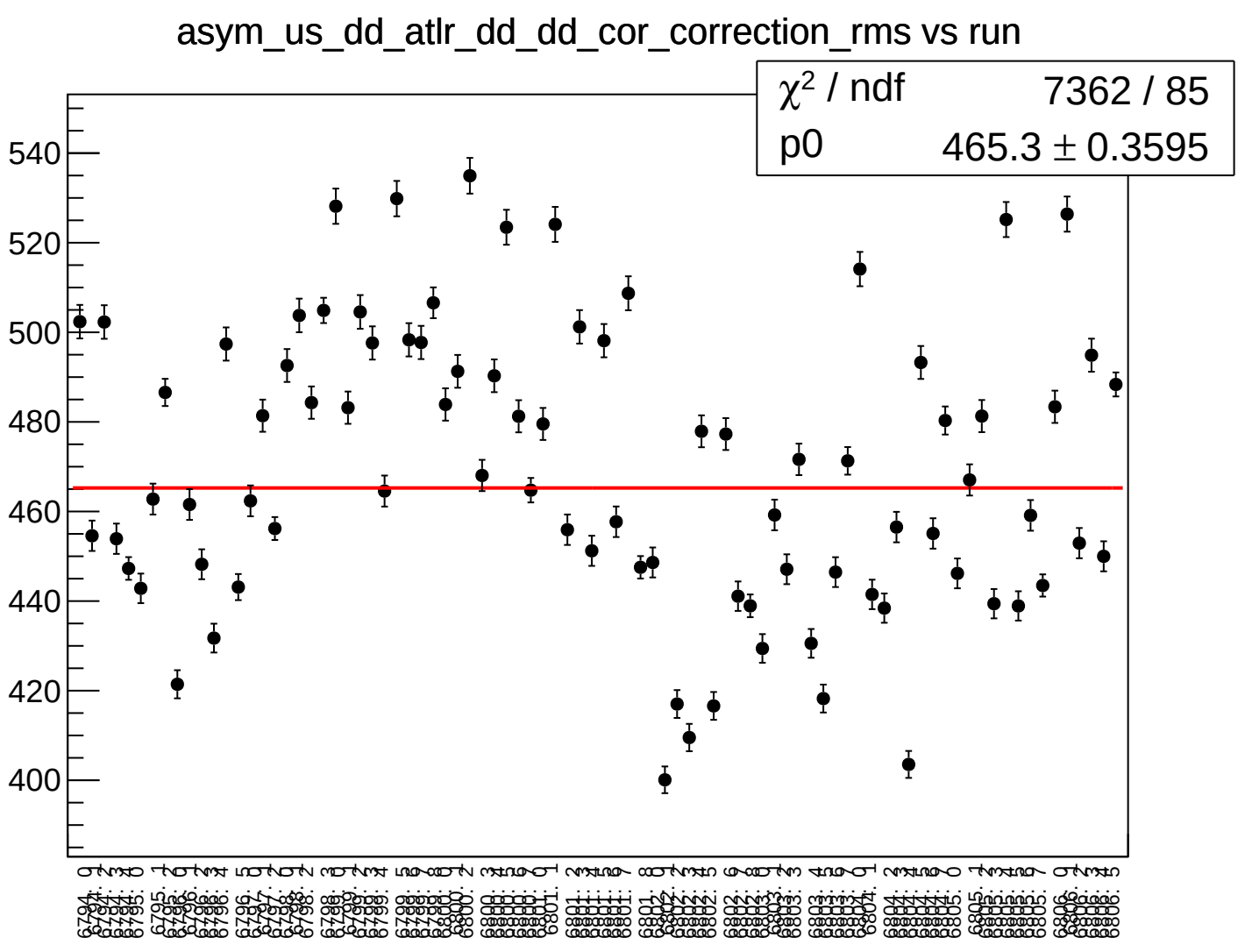

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 7363 / 85
p0 465.3 ± 0.3595
540
520
500
480
460
440
420
400

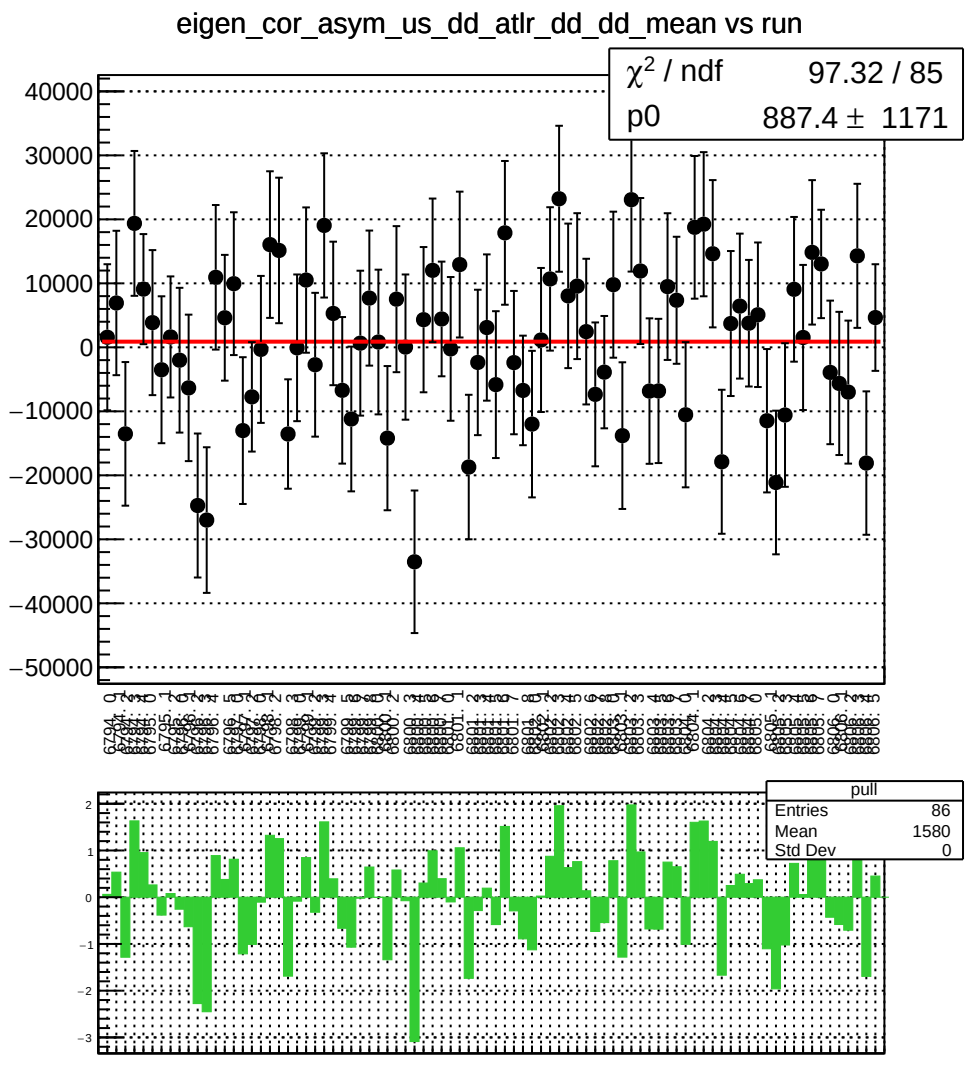

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.32 / 85
p0 887.4 ± 1171
pull
Entries 86
Mean 1580
Std Dev 0
pull1D
Entries 86
Mean 0.001086
Std Dev 1.064

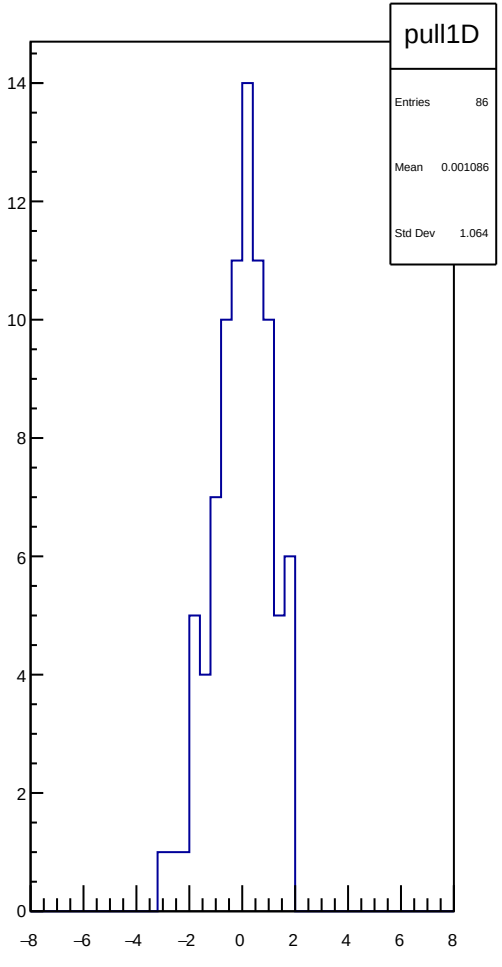

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 112.9 / 85
p0 1074 ± 0.8281
1110
1100
1090
1080
1070
1060
1050

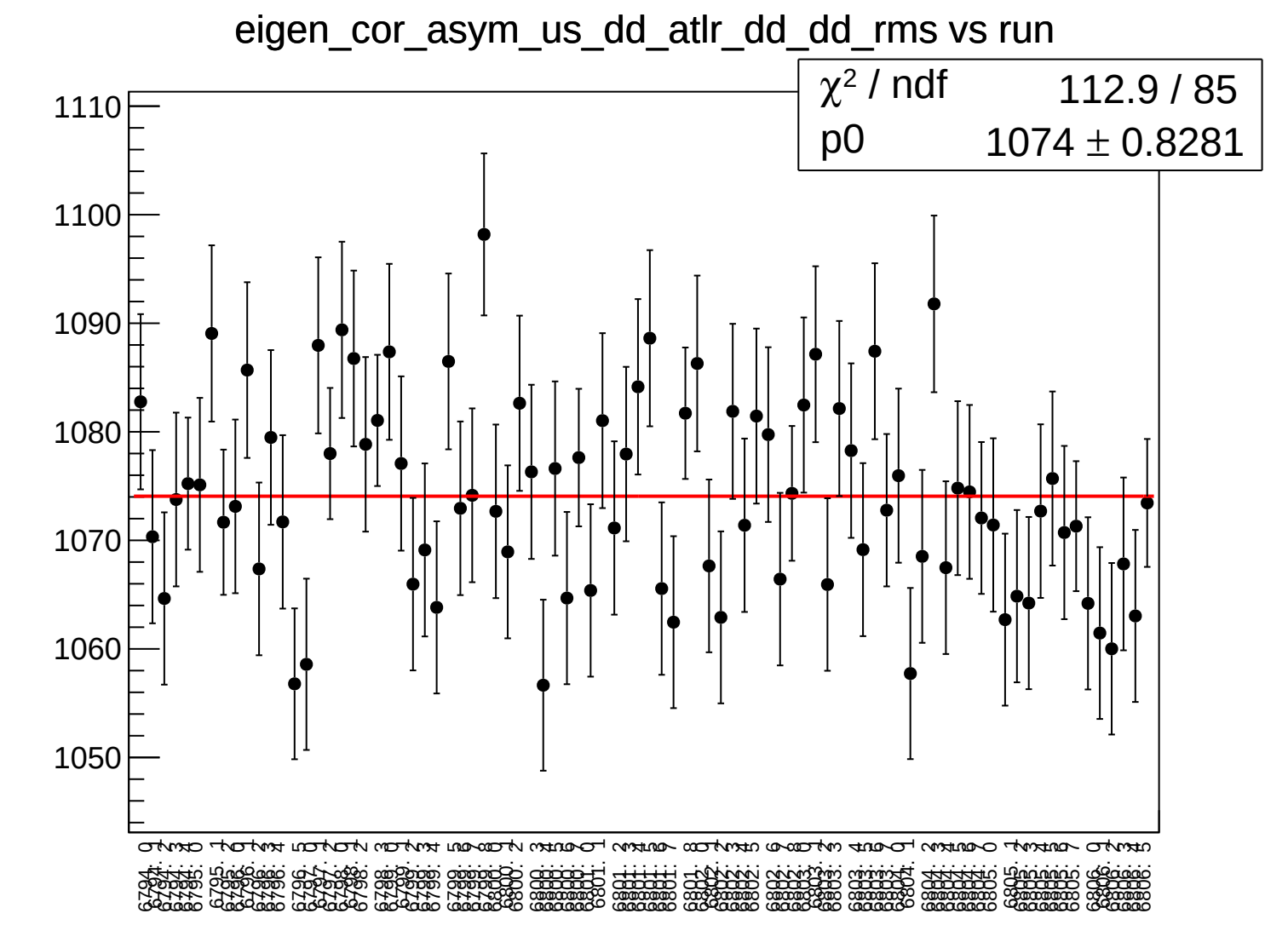

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 81.92 / 85
p0 33.79 ± 508.4
pull
Entries 86
Mean −52.8
Std Dev 0

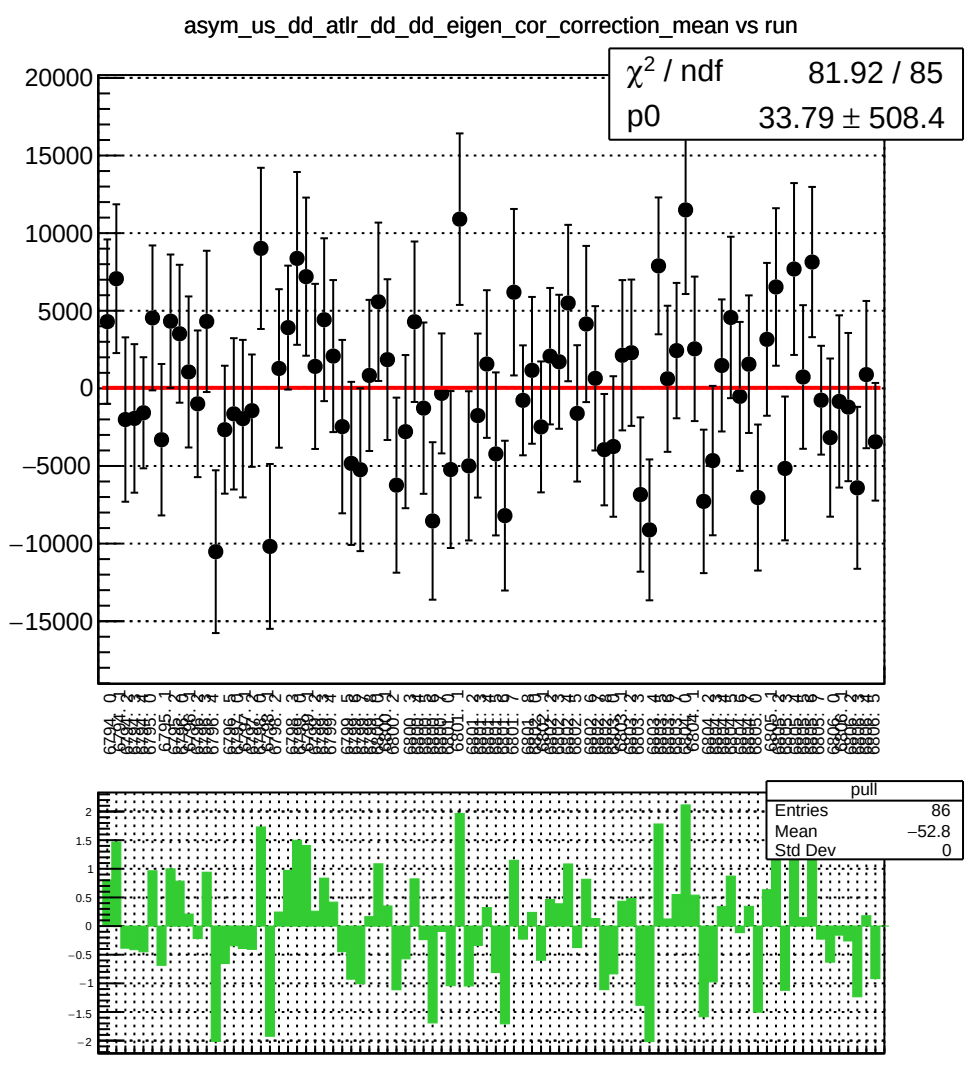

pull1D
Entries 86
Mean 0.01448
Std Dev 0.9759

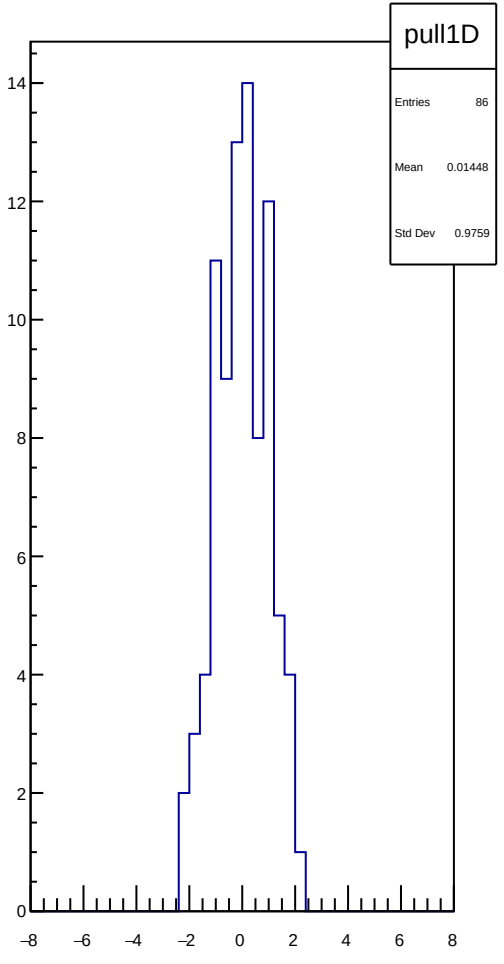

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 7362 / 85
p0 465.3 ± 0.3595
540
520
500
480
460
440
420
400

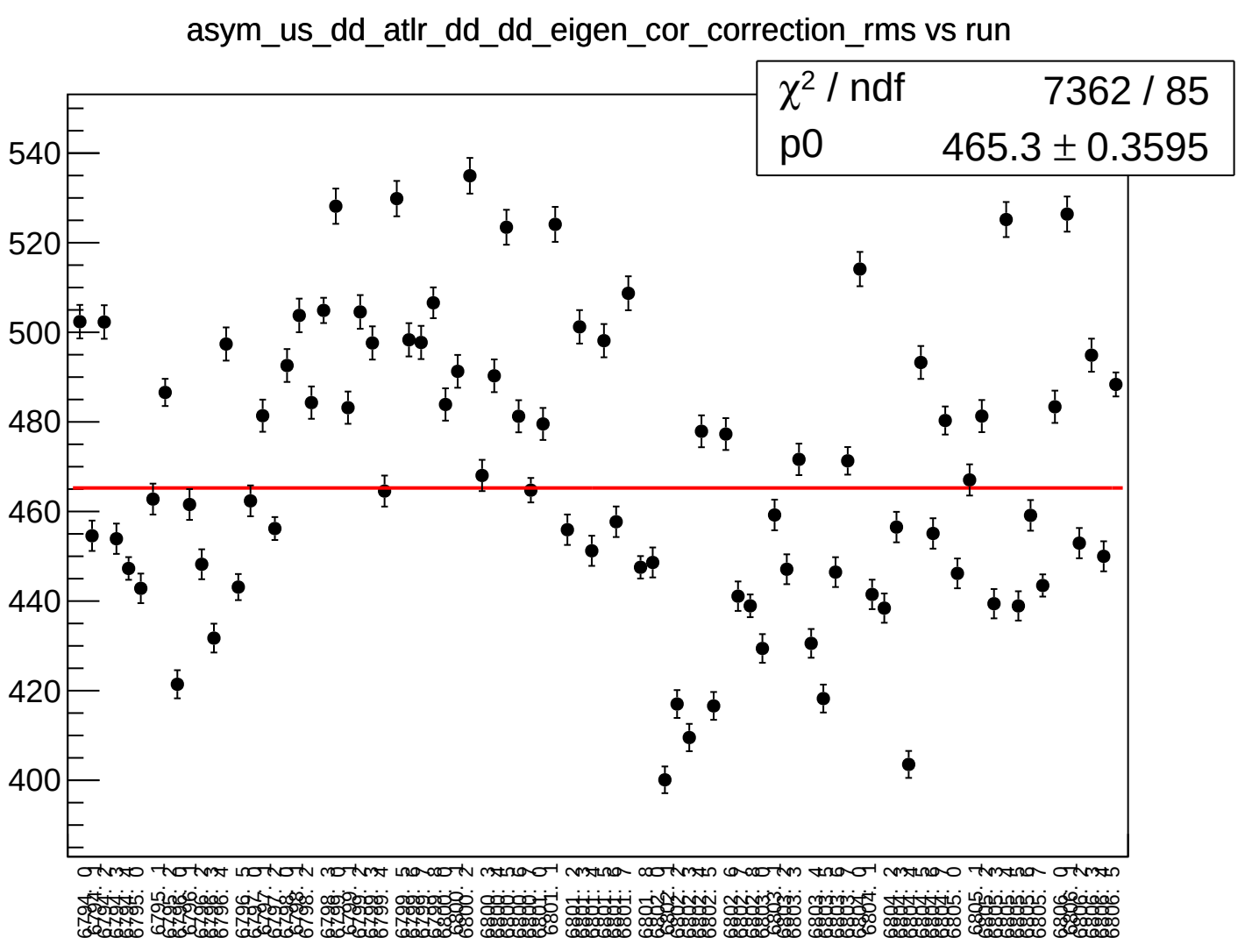

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.32 / 85
p0 887.4 ± 1171
pull
Entries 86
Mean 1580
Std Dev 0

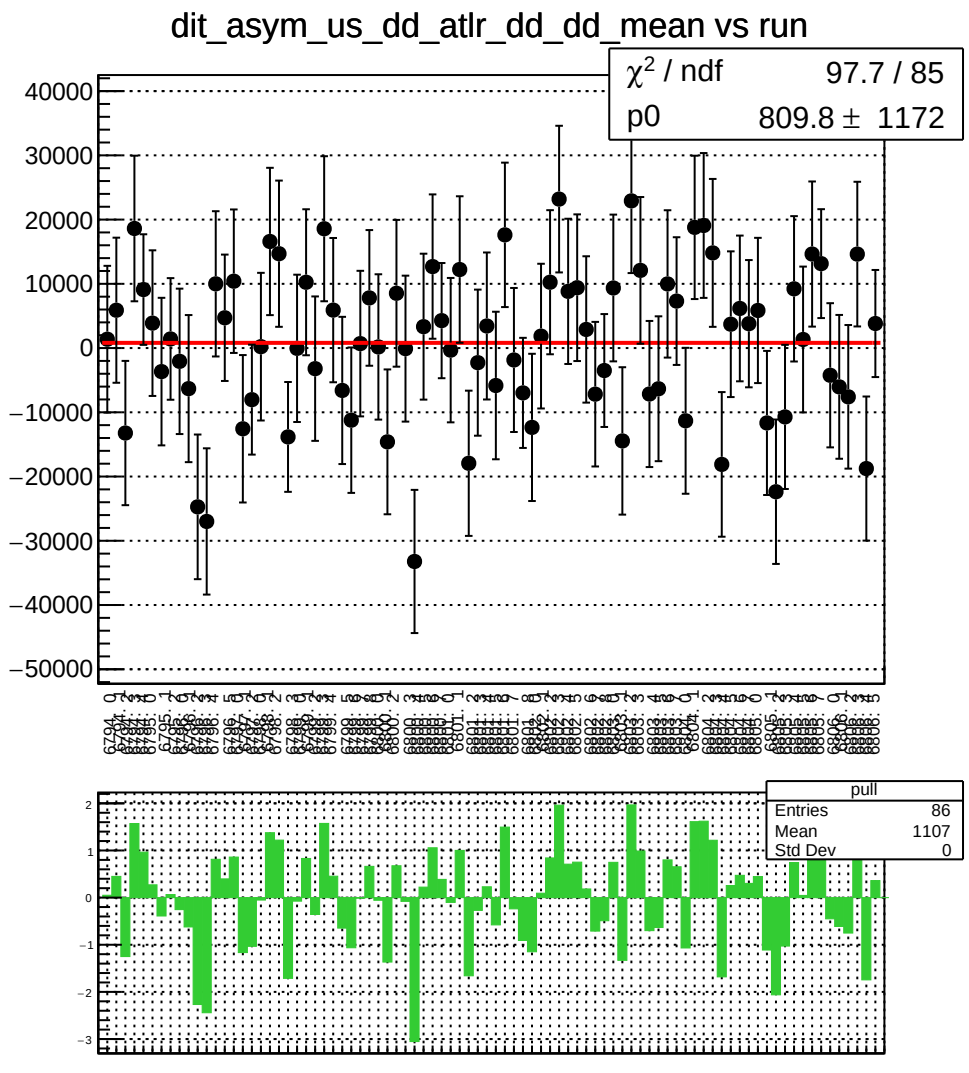

pull1D
Entries 86
Mean 0.001086
Std Dev 1.064

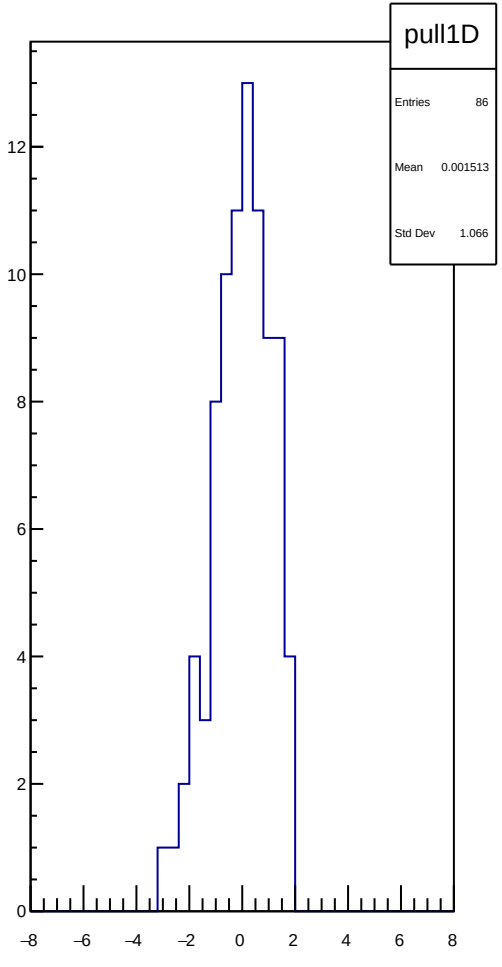

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 112.9 / 85
p0 1074 ± 0.8281
1110
1100
1090
1080
1070
1060
1050

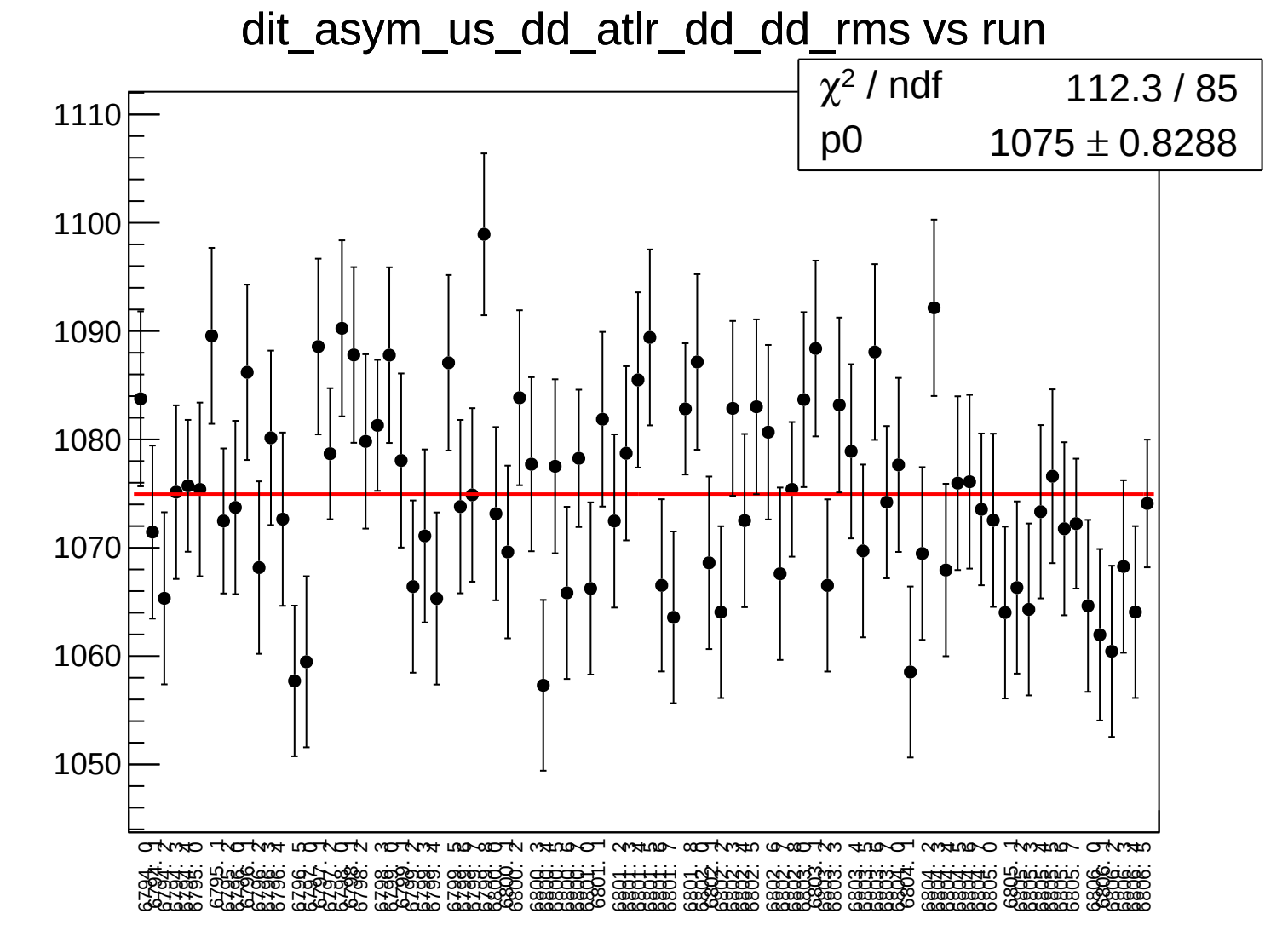

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 81.92 / 85
p0 33.79 ± 508.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −52.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

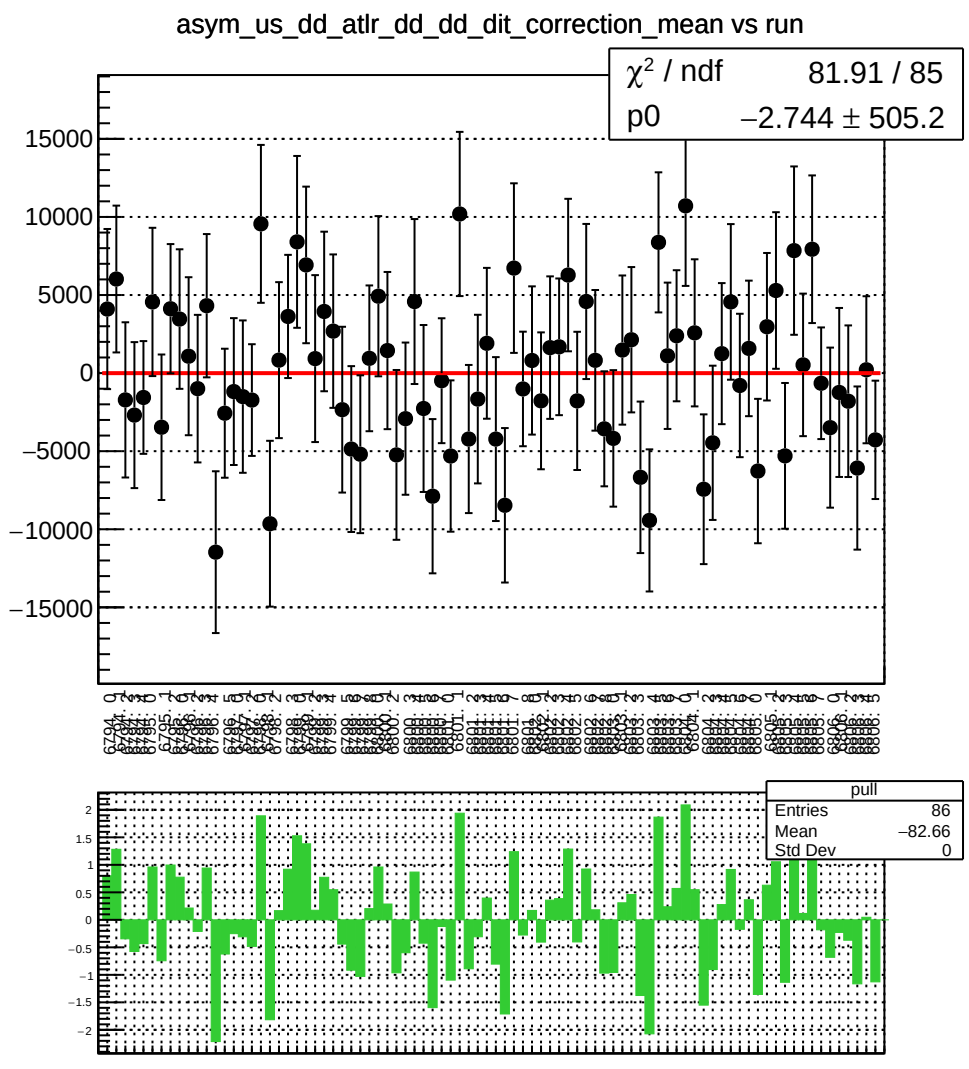

pull1D
Entries 86
Mean 0.01448
Std Dev 0.9759
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

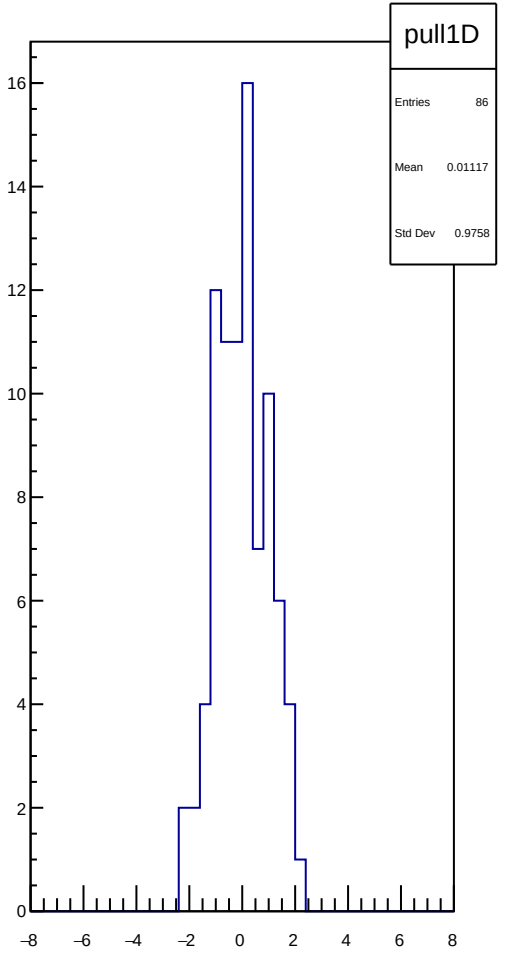

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7362 / 85
p0 465.3 ± 0.3595
540
520
500
480
460
440
420
400

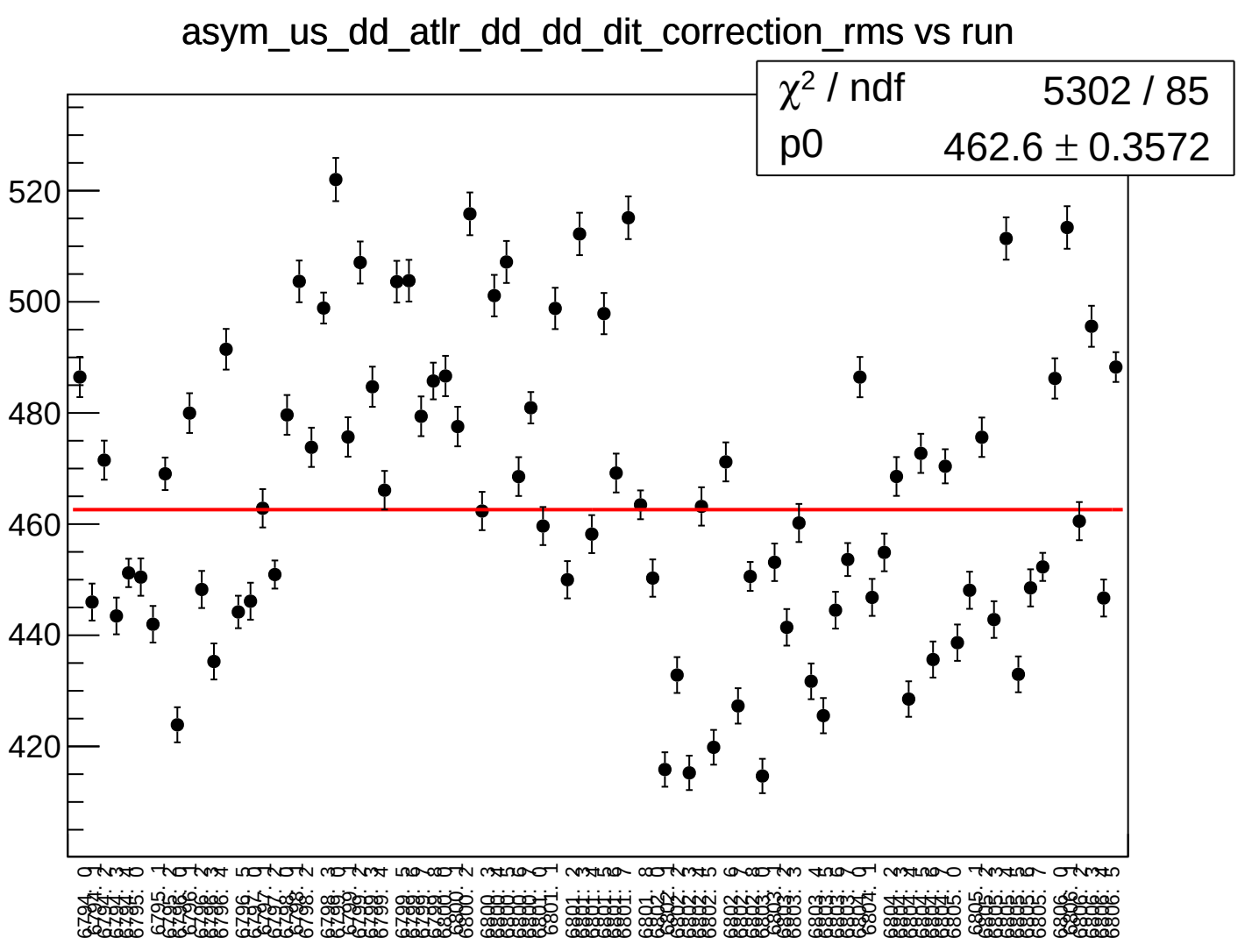

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.7 / 85
p0 809.8 ± 1172
pull
Entries 86
Mean 1107
Std Dev 0

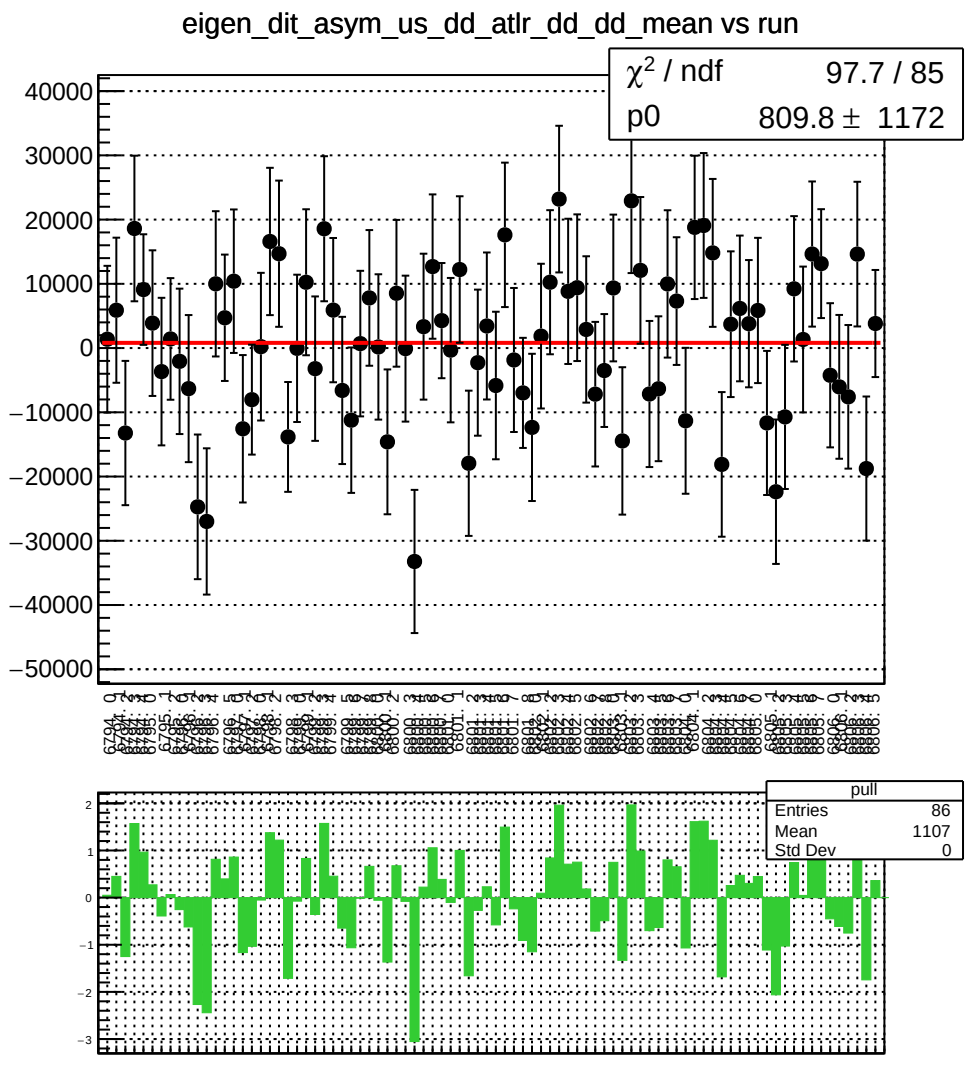

pull1D
Entries 86
Mean 0.001513
Std Dev 1.066

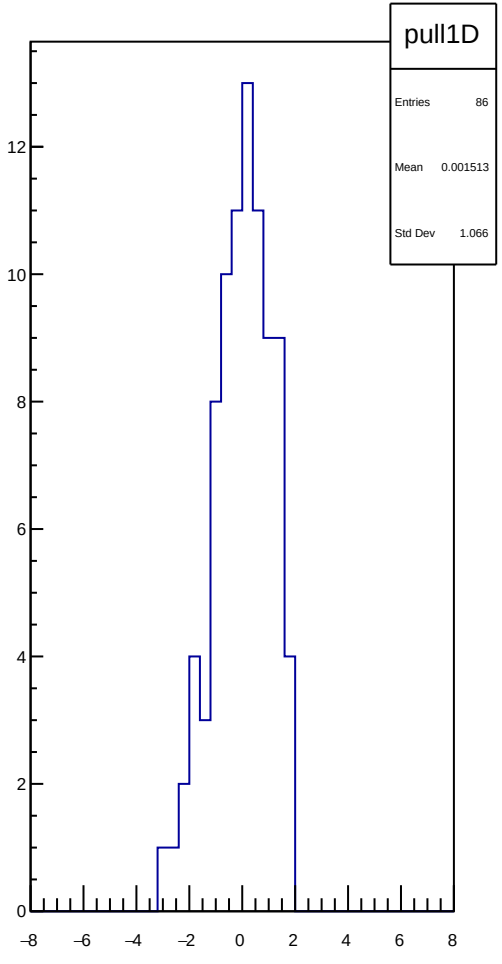

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 112.3 / 85
p0 1075 ± 0.8288
1110
1100
1090
1080
1070
1060
1050

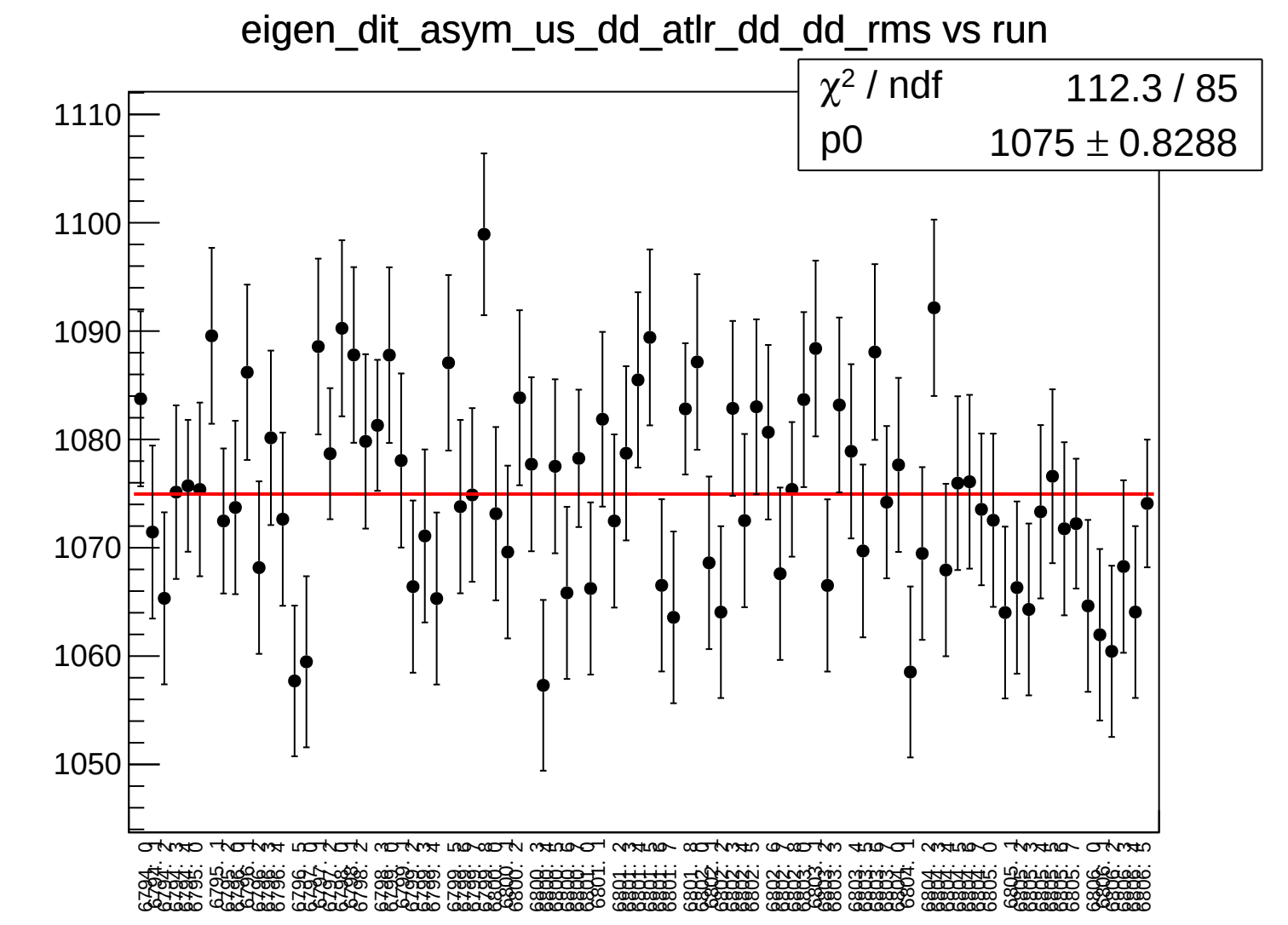

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 81.91 / 85
p0 −2.744 ± 505.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −82.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

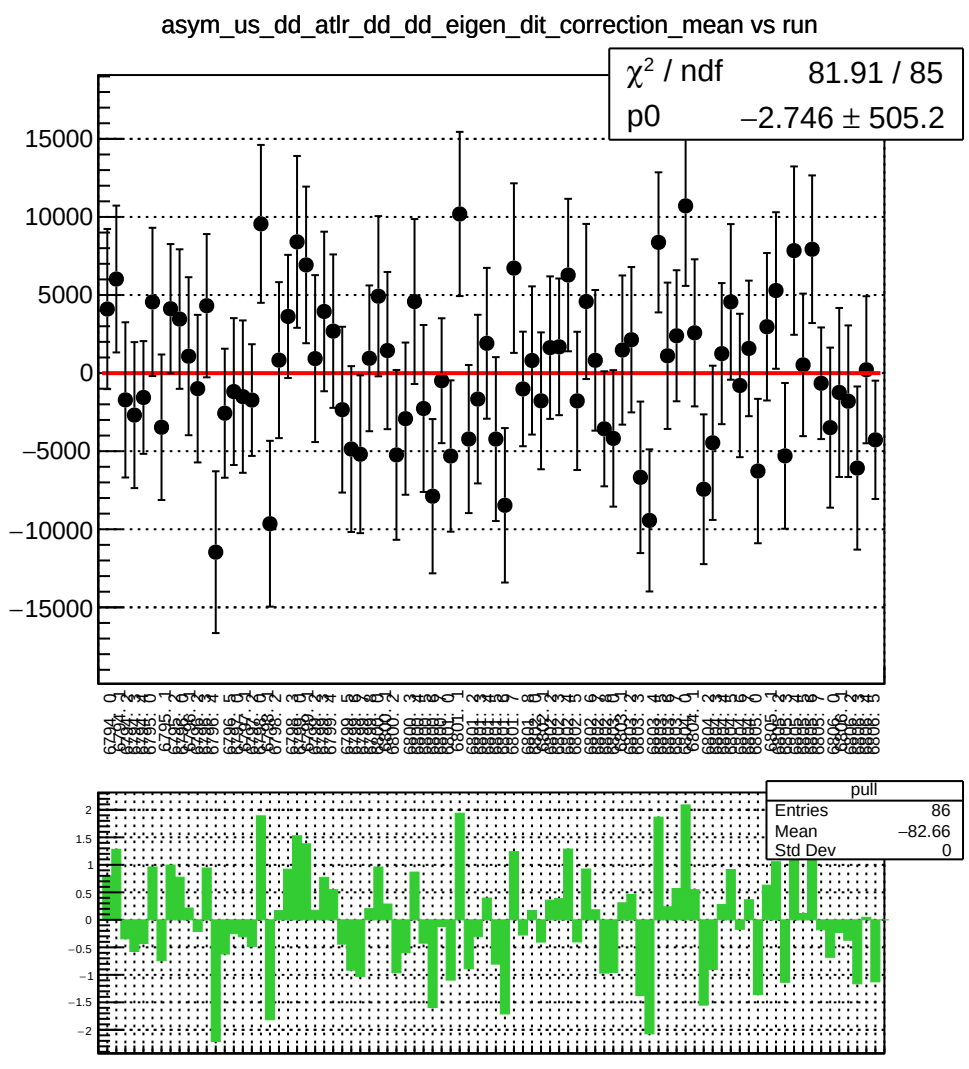

pull1D
Entries 86
Mean 0.01117
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

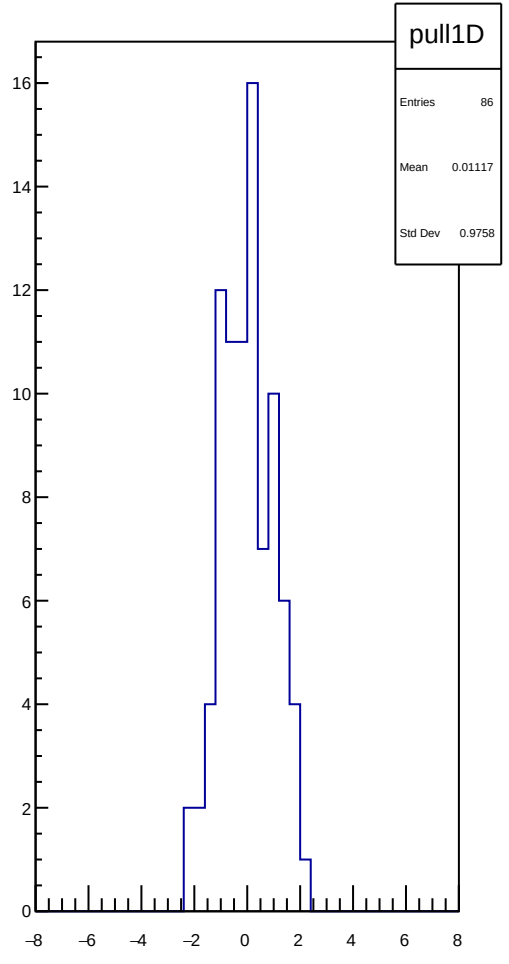

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 5302 / 85
p0 462.6 ± 0.3572
520
500
480
460
440
420

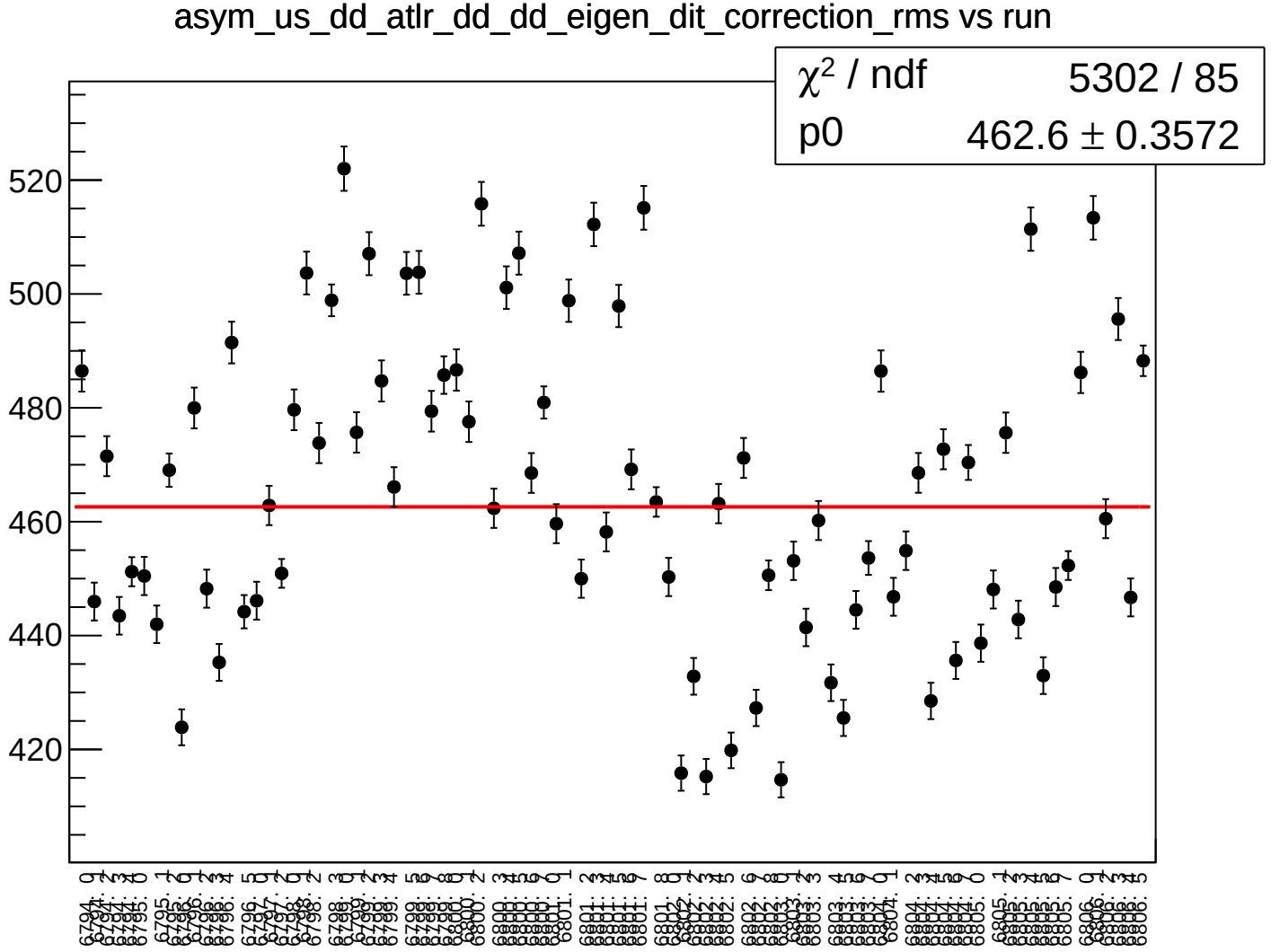

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 97.7 / 85
p0 809.8 ± 1172
pull
Entries 86
Mean 1107
Std Dev 0

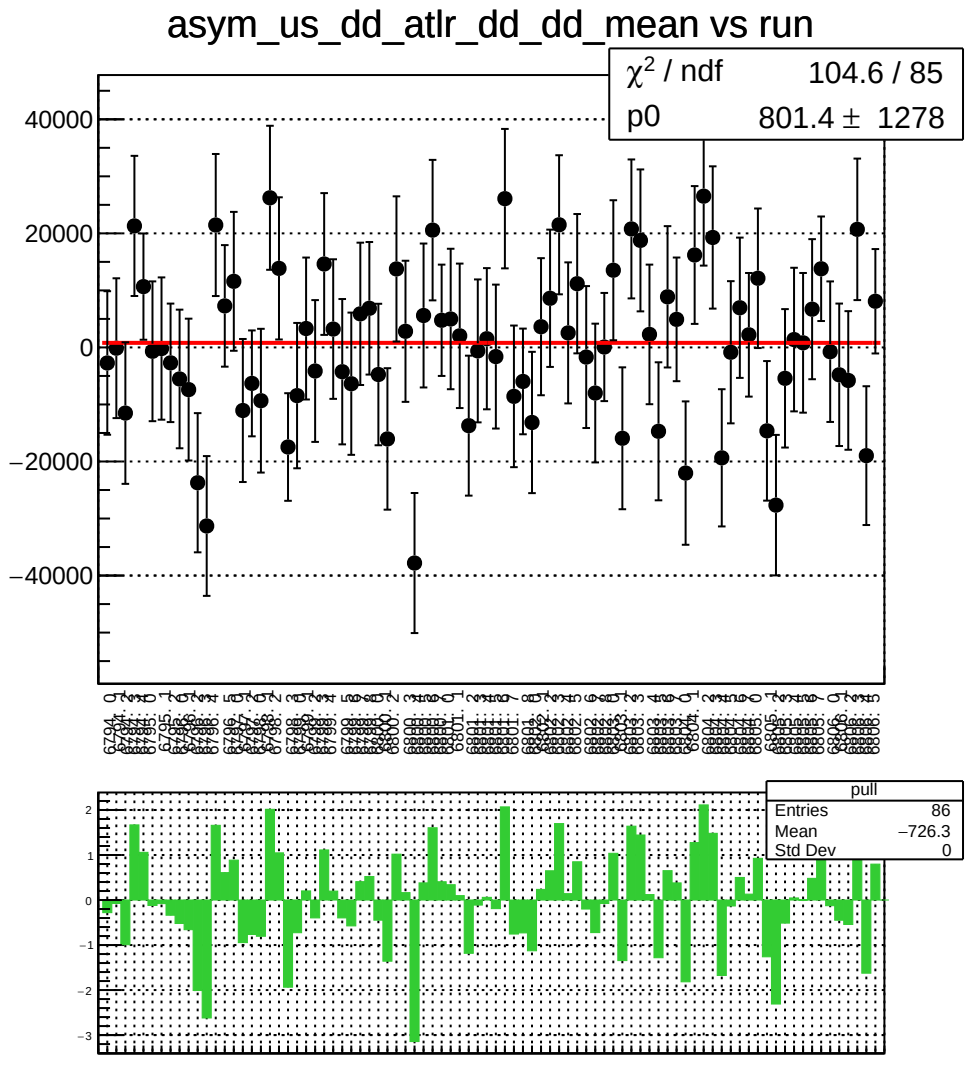

pull1D
Entries 86
Mean 0.001513
Std Dev 1.066

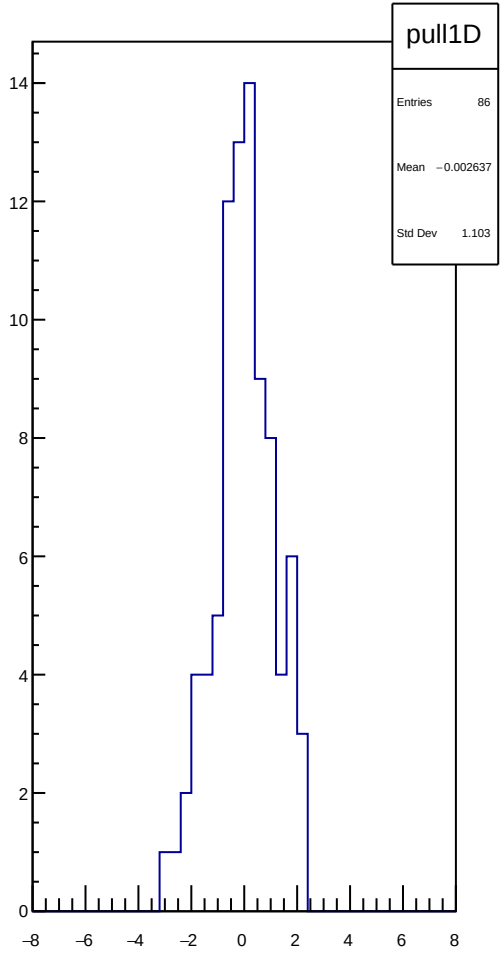

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 112.3 / 85
p0 1075 ± 0.8288
1110
1100
1090
1080
1070
1060
1050

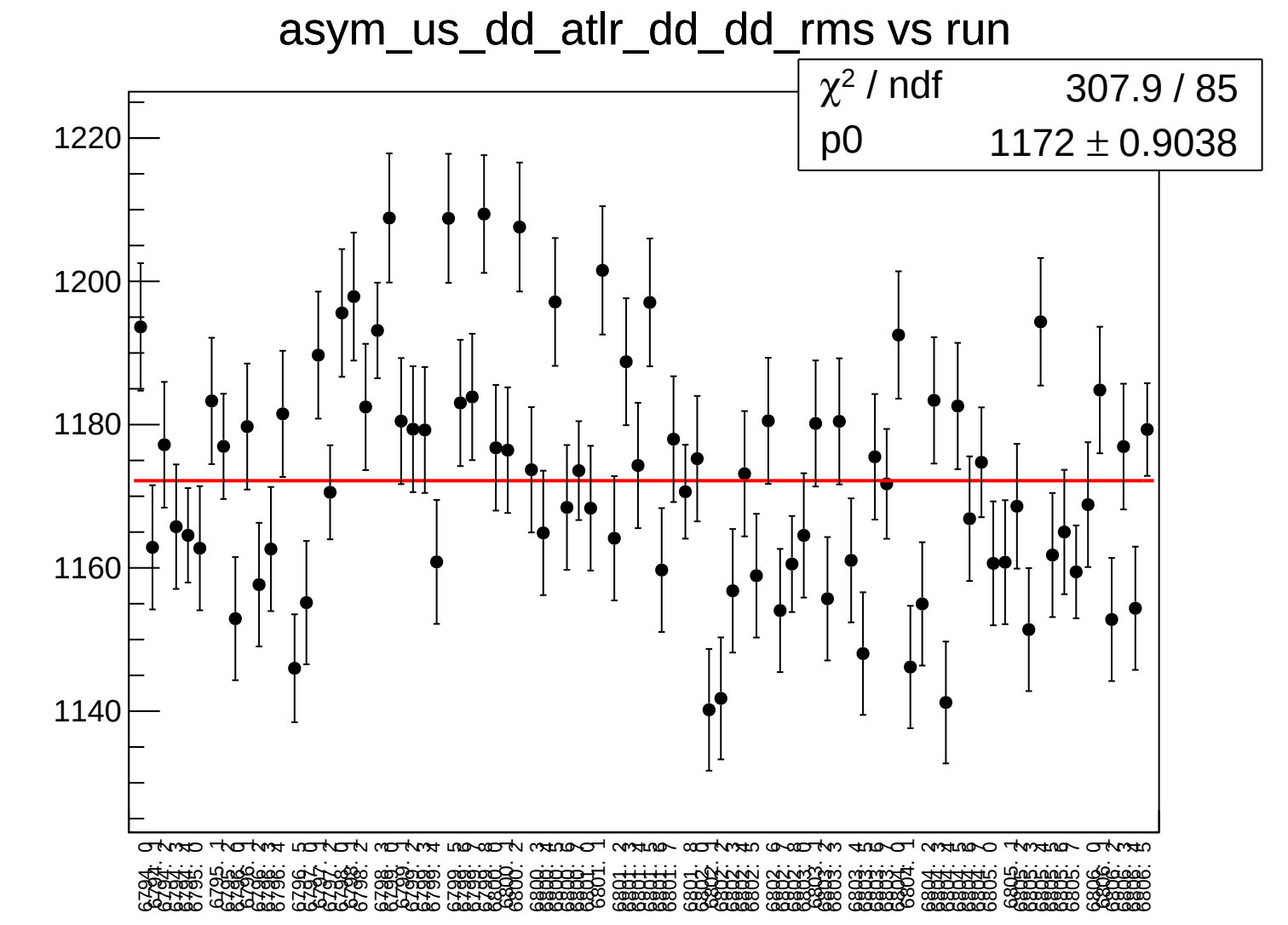

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 81.91 / 85
p0 −2.746 ± 505.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −82.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

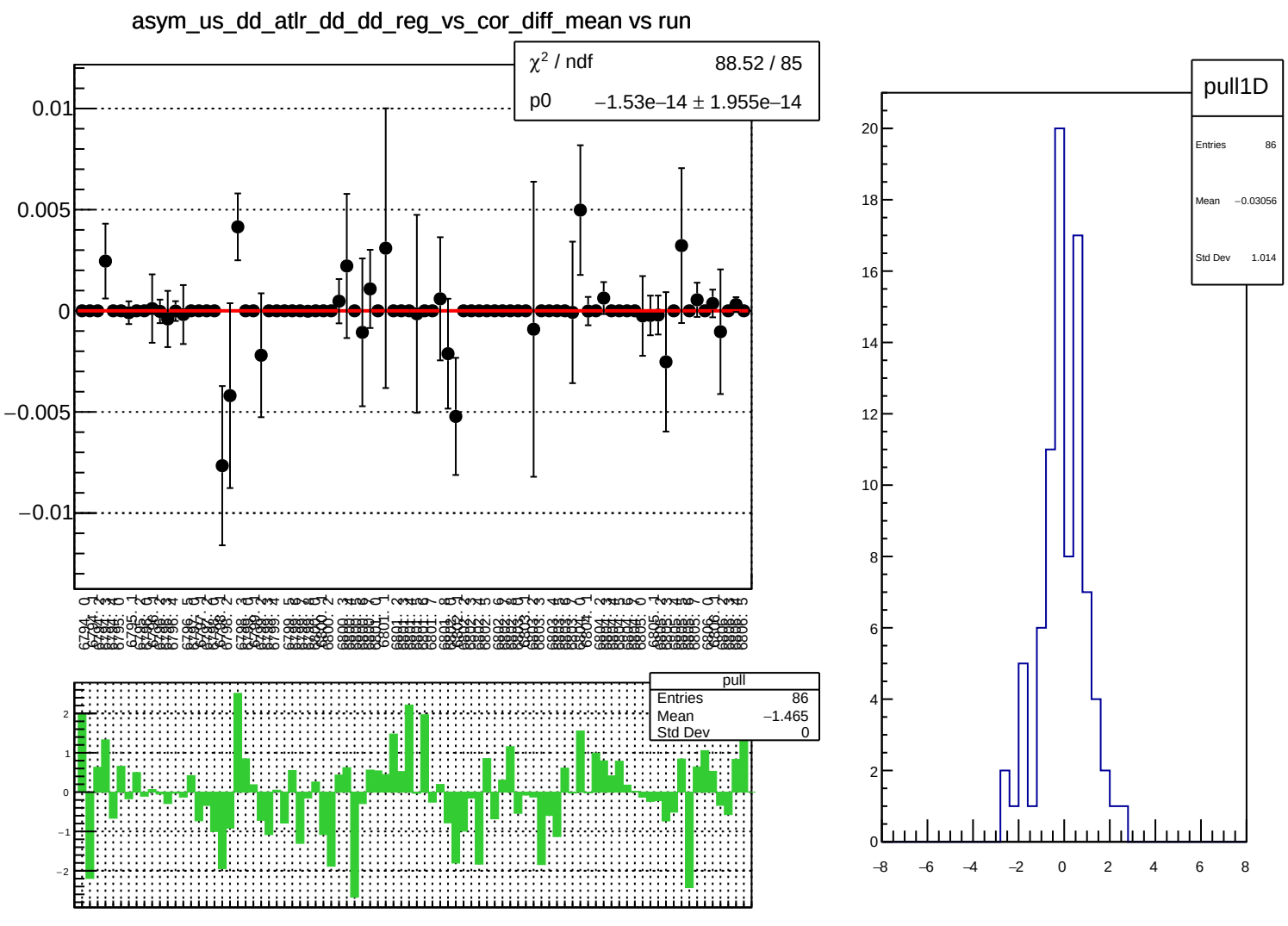

pull1D
Entries 86
Mean 0.01117
Std Dev 0.9758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

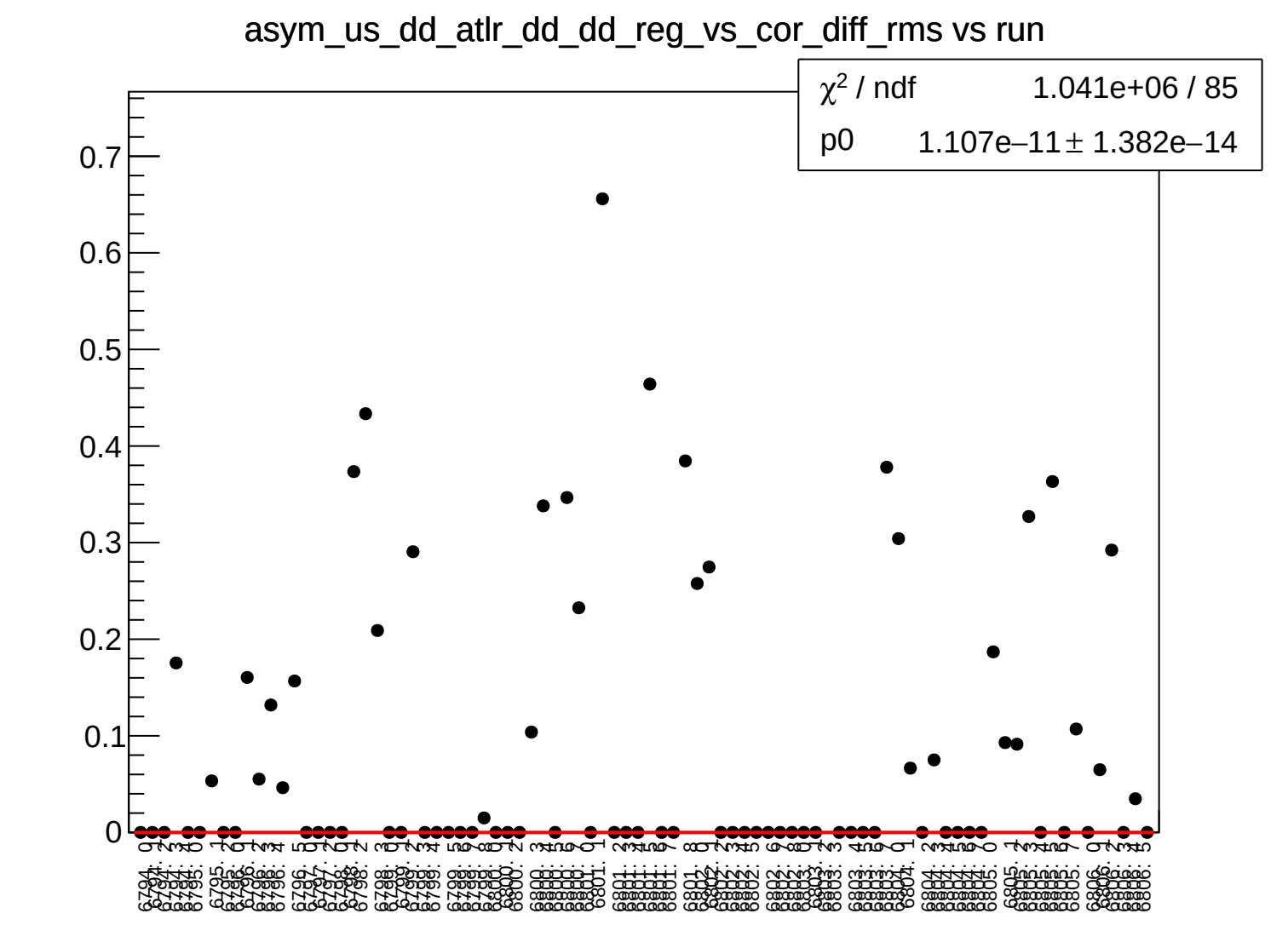

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5302 / 85
p0 462.6 ± 0.3572
520
500
480
460
440
420

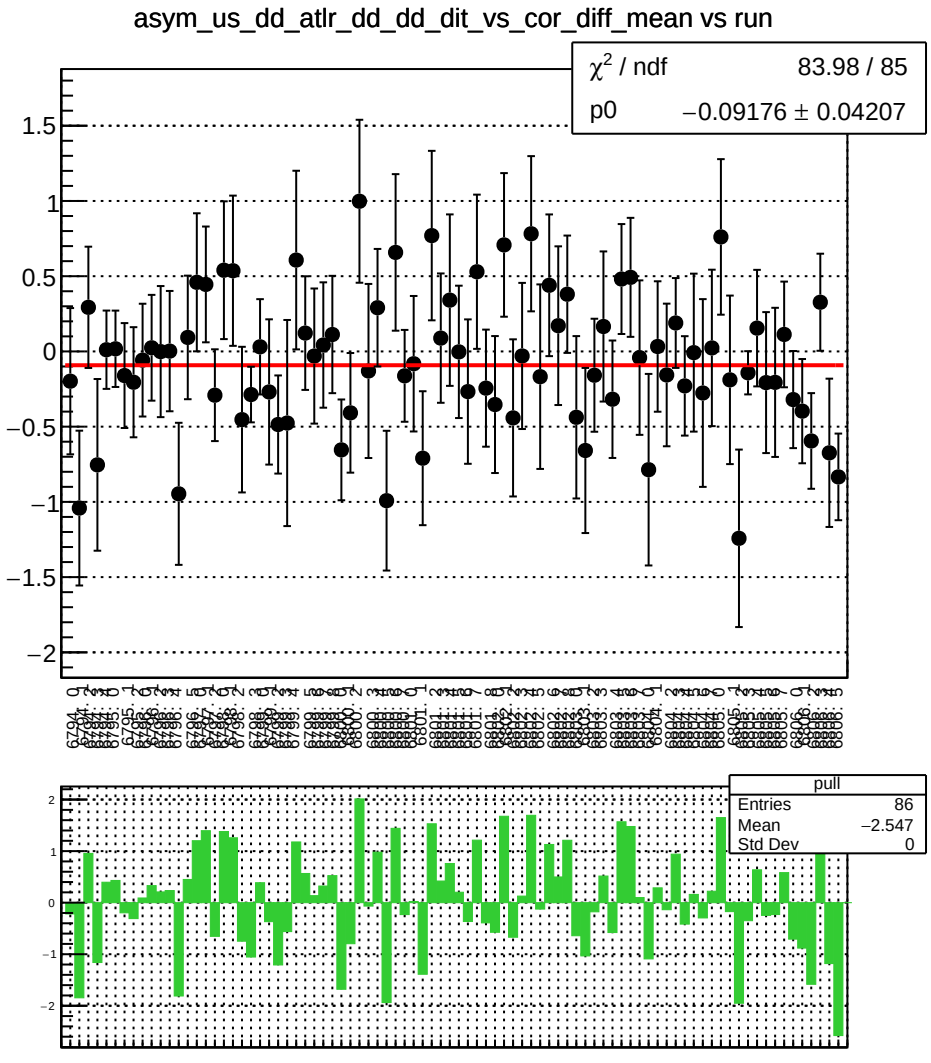

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 104.6 / 85
p0 801.4 ± 1278
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −726.3
Std Dev 0
2
1
0
−1
−2
−3

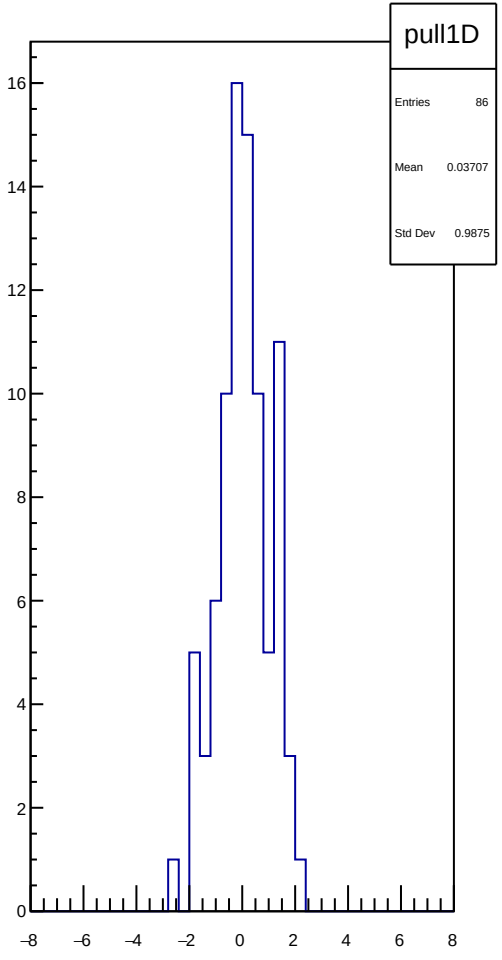

pull1D
Entries 86
Mean −0.002637
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

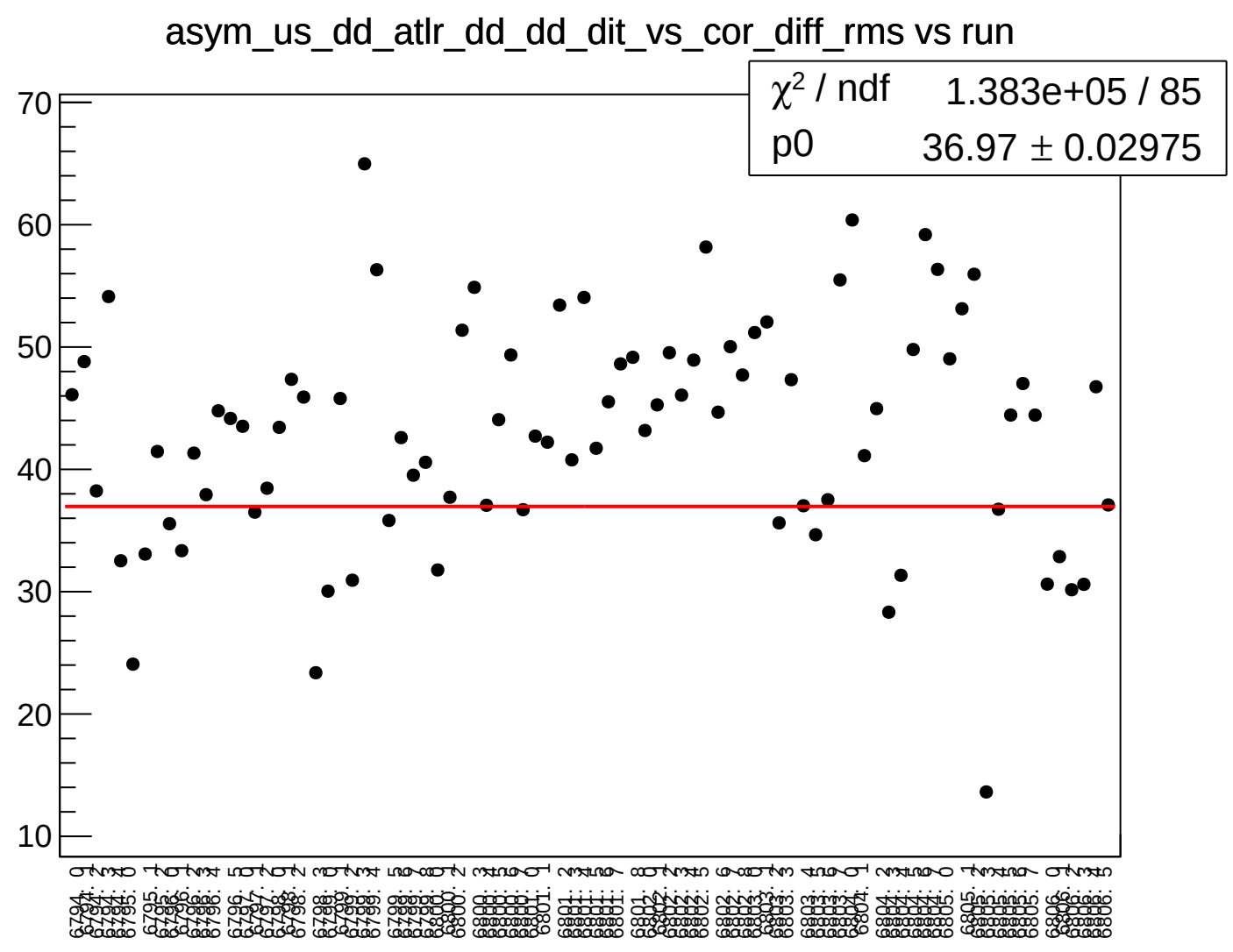

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 307.9 / 85
p0 1172 ± 0.9038
1220
1200
1180
1160
1140

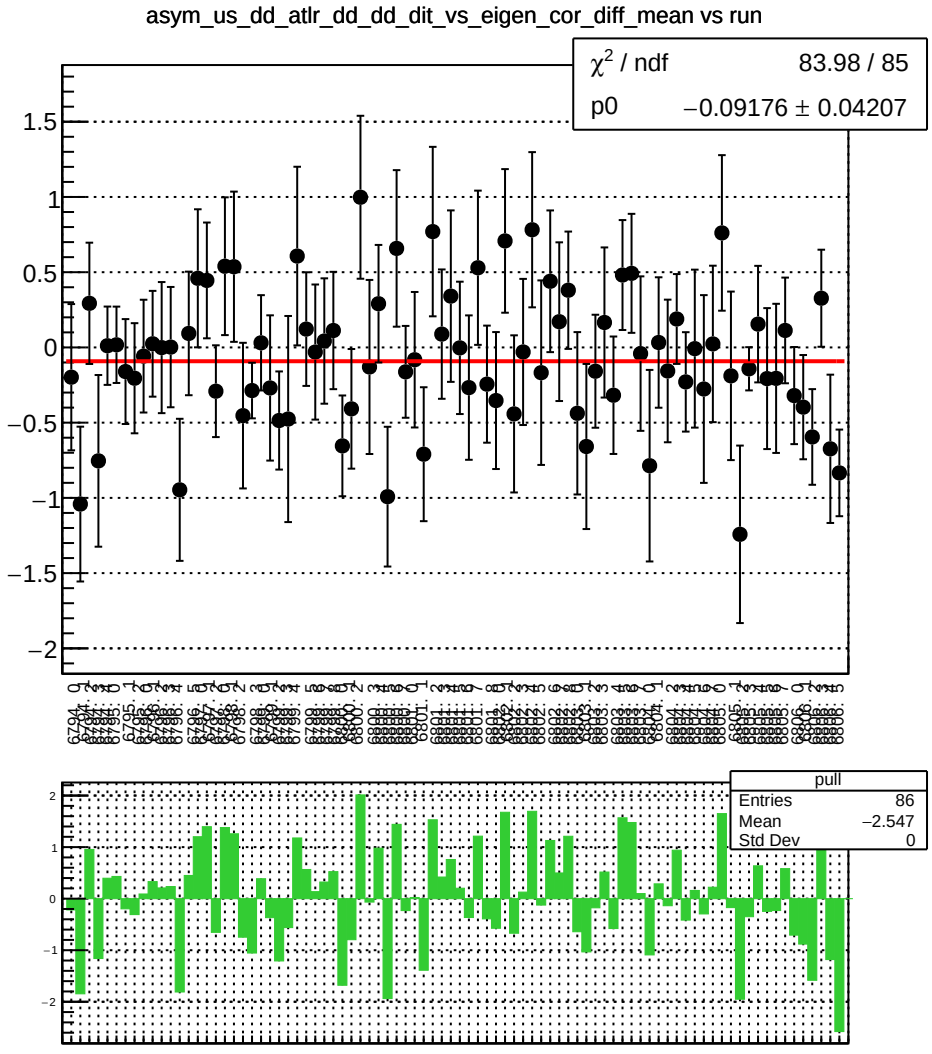

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.52 / 85
p0 −1.53e−14 ± 1.955e−14
0.01
0.005
0
−0.005
−0.01
pull
Entries 86
Mean −1.465
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.03056
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

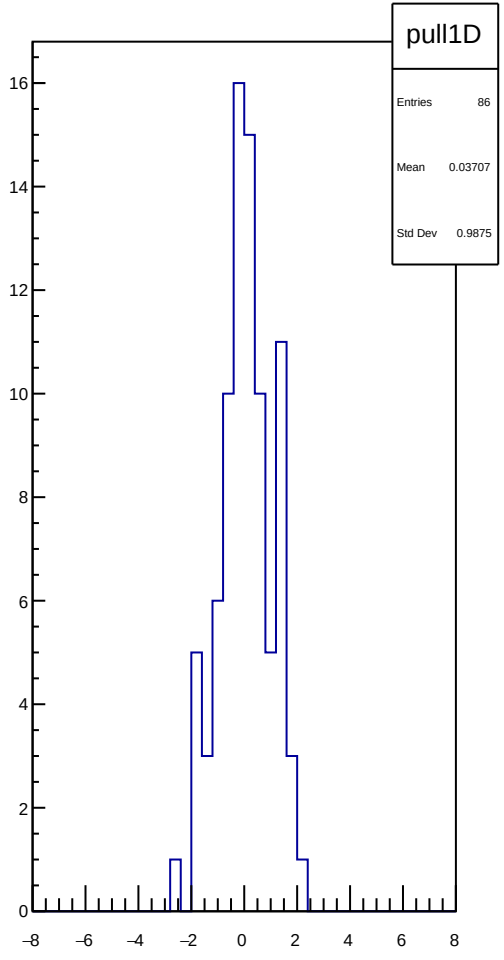

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.041e+06 / 85
p0 1.107e−11 ± 1.382e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

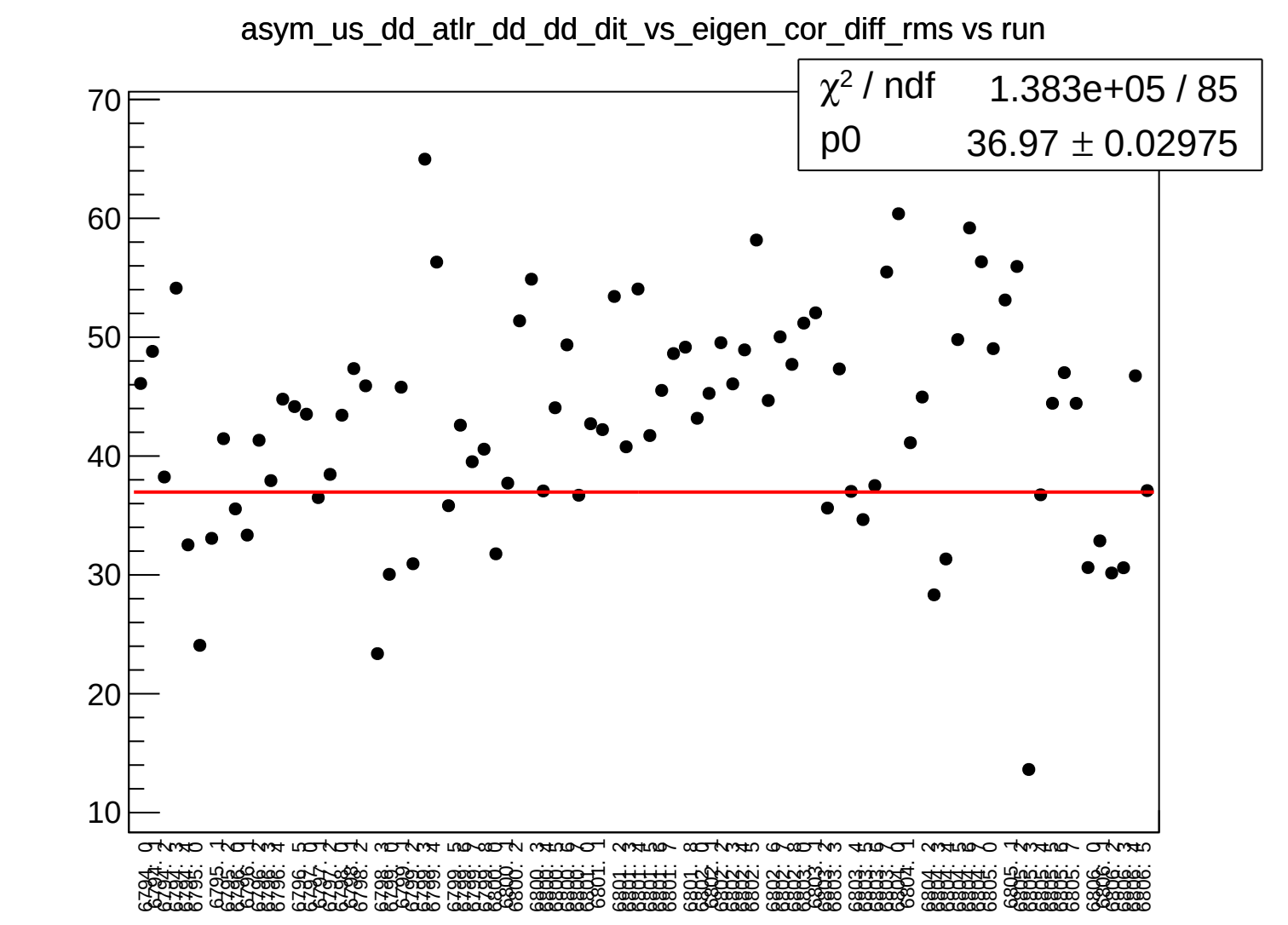

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.98 / 85
p0 −0.09176 ± 0.04207
pull
Entries 86
Mean −2.547
Std Dev 0

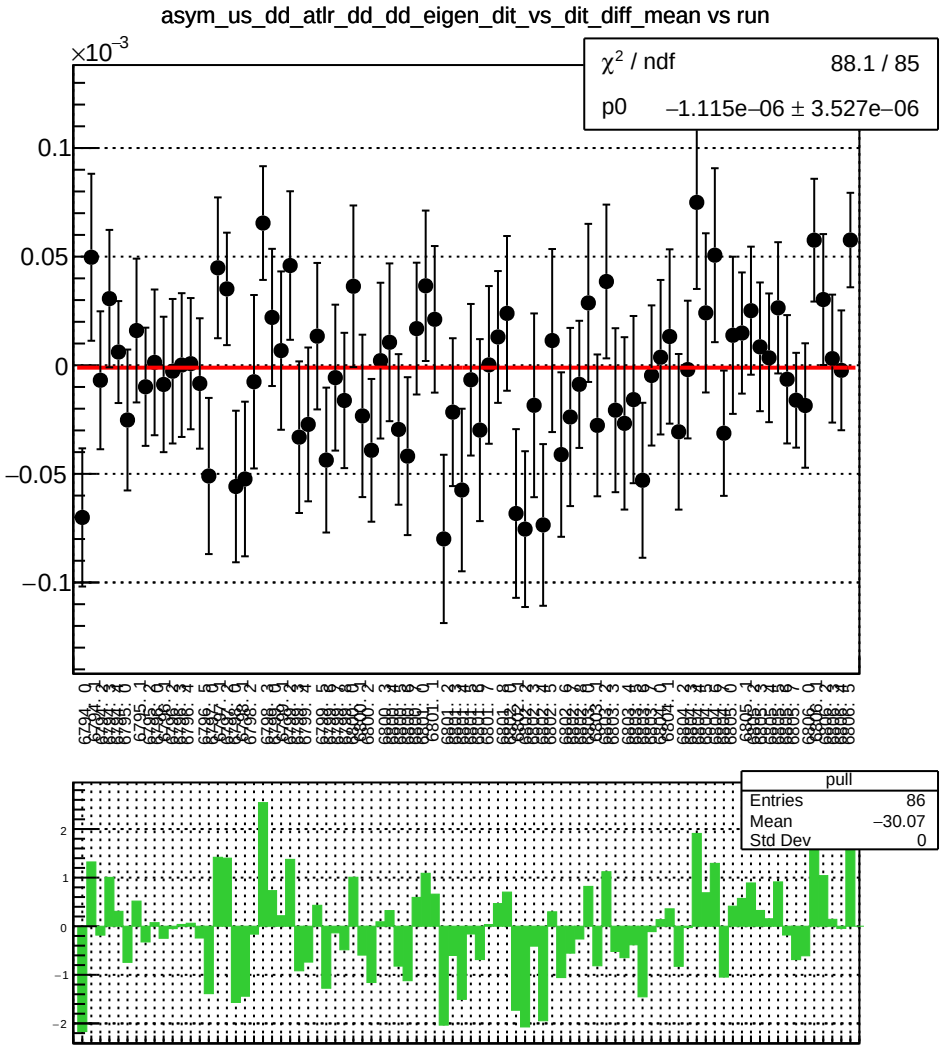

pull1D
Entries 86
Mean 0.03707
Std Dev 0.9875

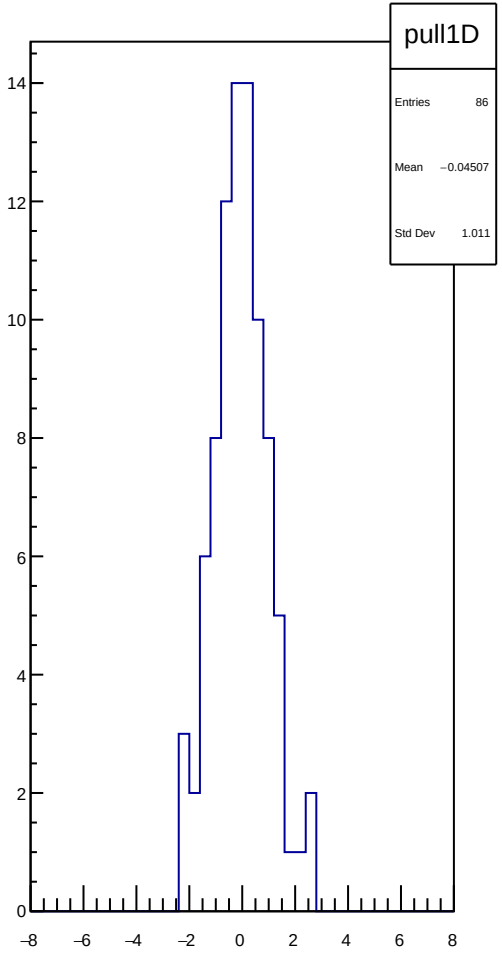

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 85
p0 36.97 ± 0.02975
70
60
50
40
30
20
10

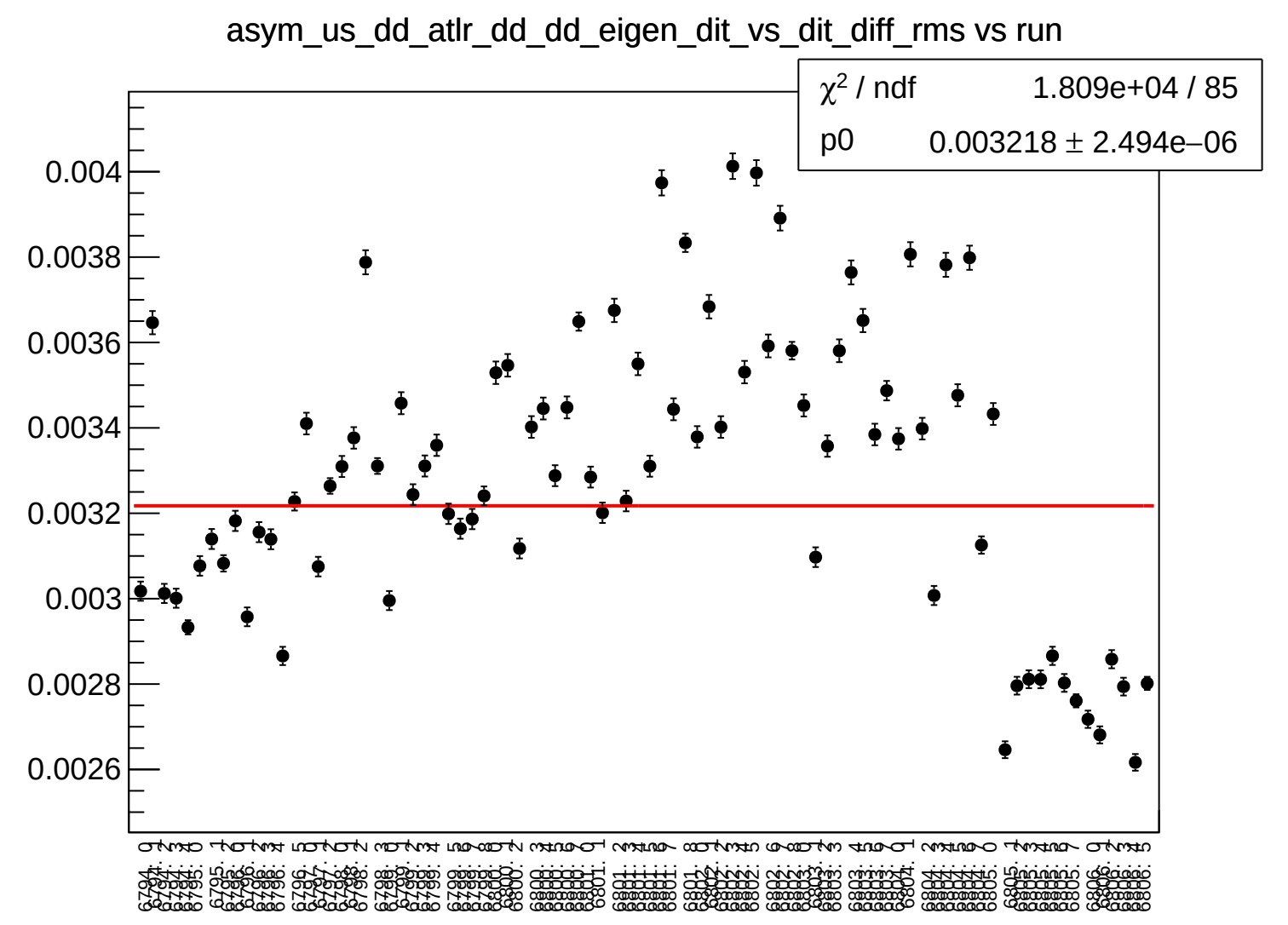

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.98 / 85
p0 −0.09176 ± 0.04207
pull
Entries 86
Mean −2.547
Std Dev 0

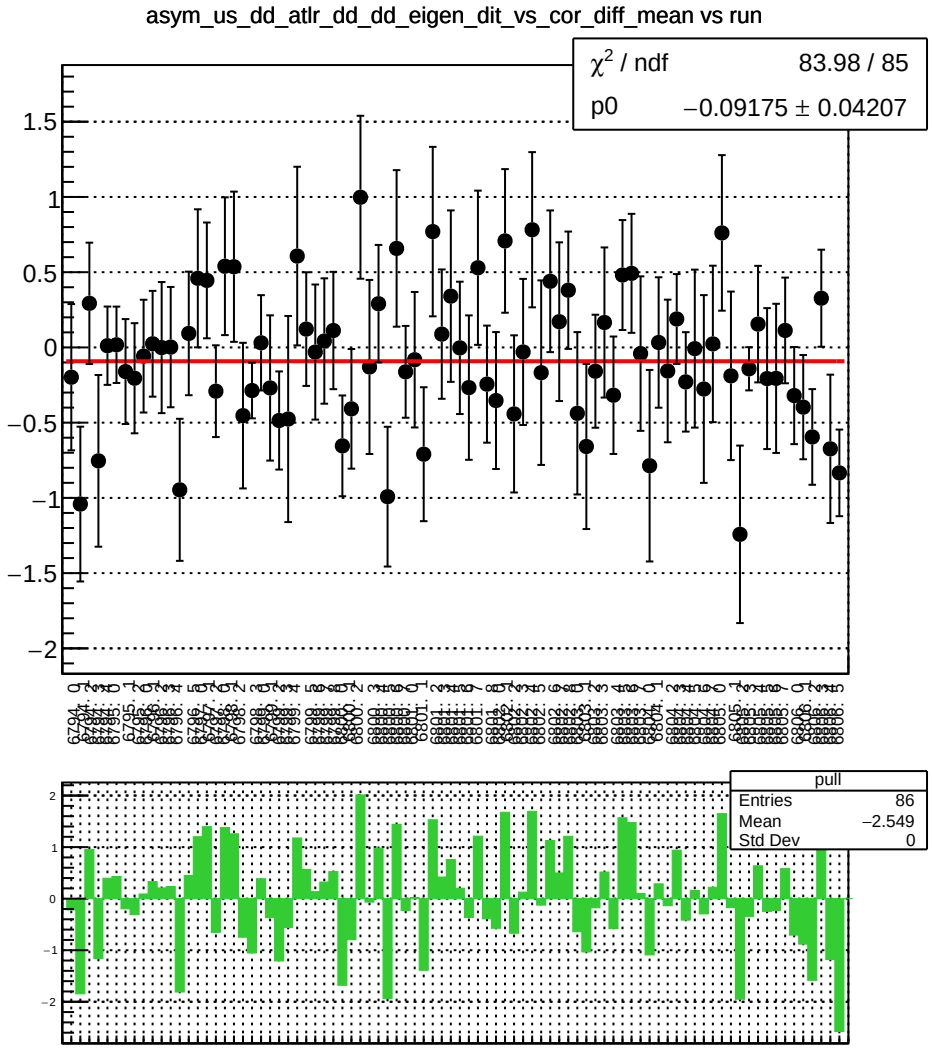

pull1D
Entries 86
Mean 0.03707
Std Dev 0.9875

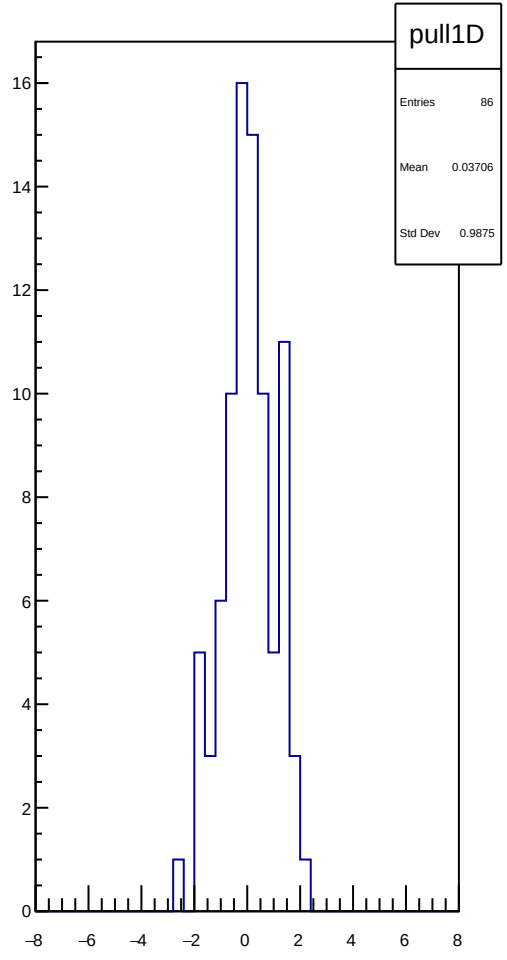

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.383e+05 / 85
p0 36.97 ± 0.02975
70
60
50
40
30
20
10

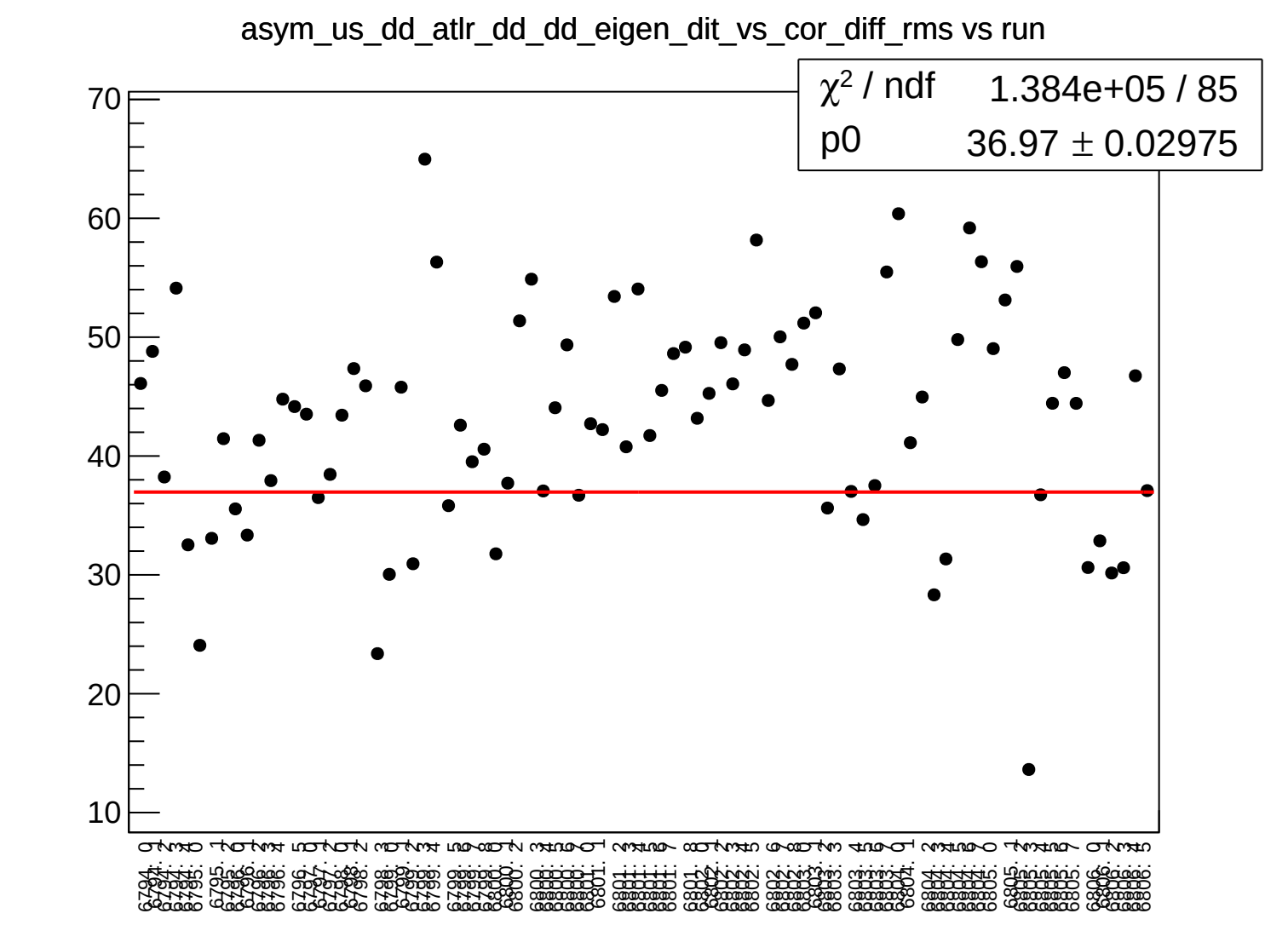

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.1 / 85
p0 −1.115e−06 ± 3.527e−06
pull
Entries 86
Mean −30.07
Std Dev 0

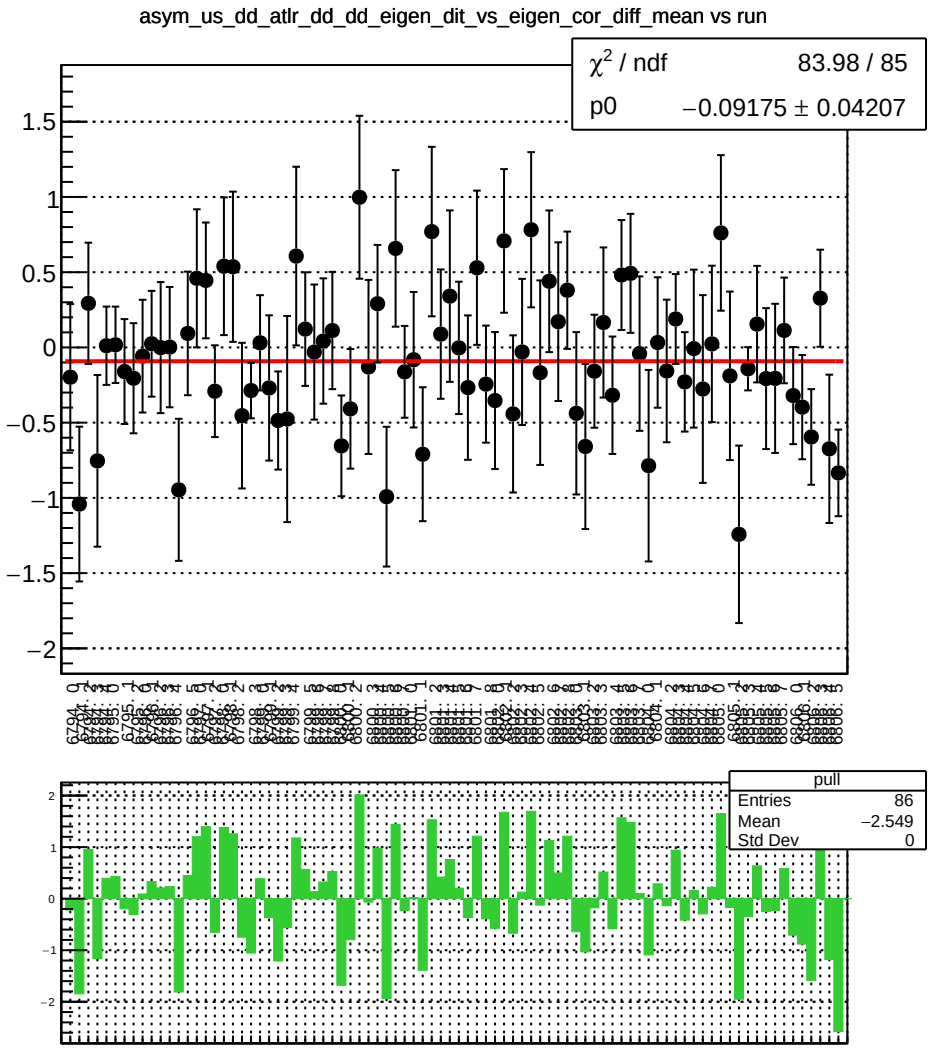

pull1D
Entries 86
Mean −0.04507
Std Dev 1.011

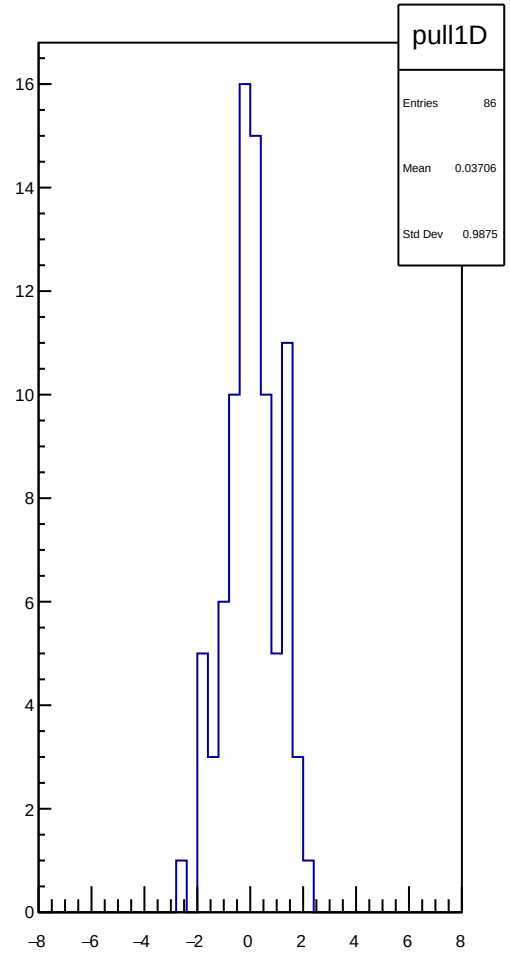

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.809e+04 / 85
p0 0.003218 ± 2.494e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

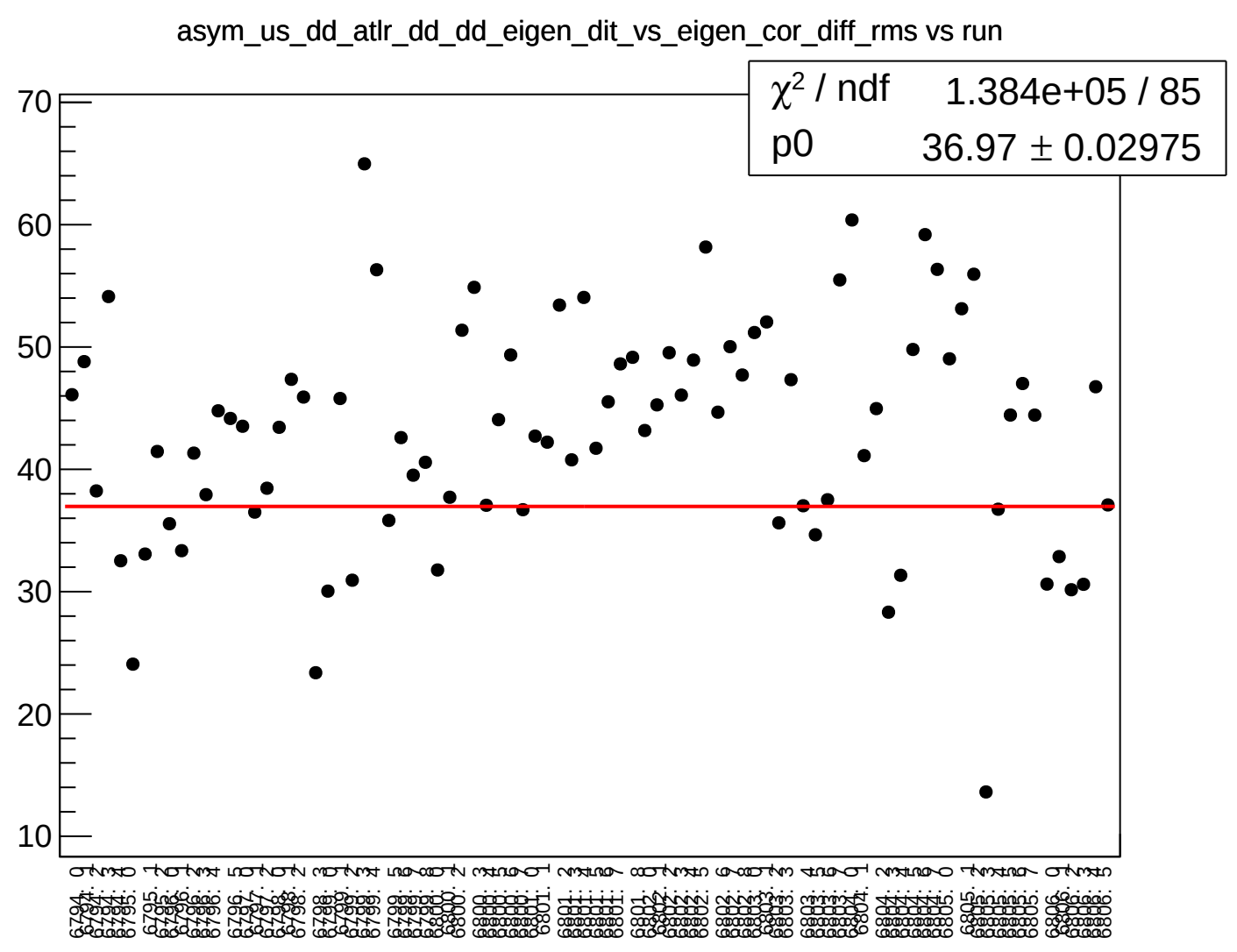

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.98 / 85
p0 −0.09175 ± 0.04207
pull
Entries 86
Mean −2.549
Std Dev 0

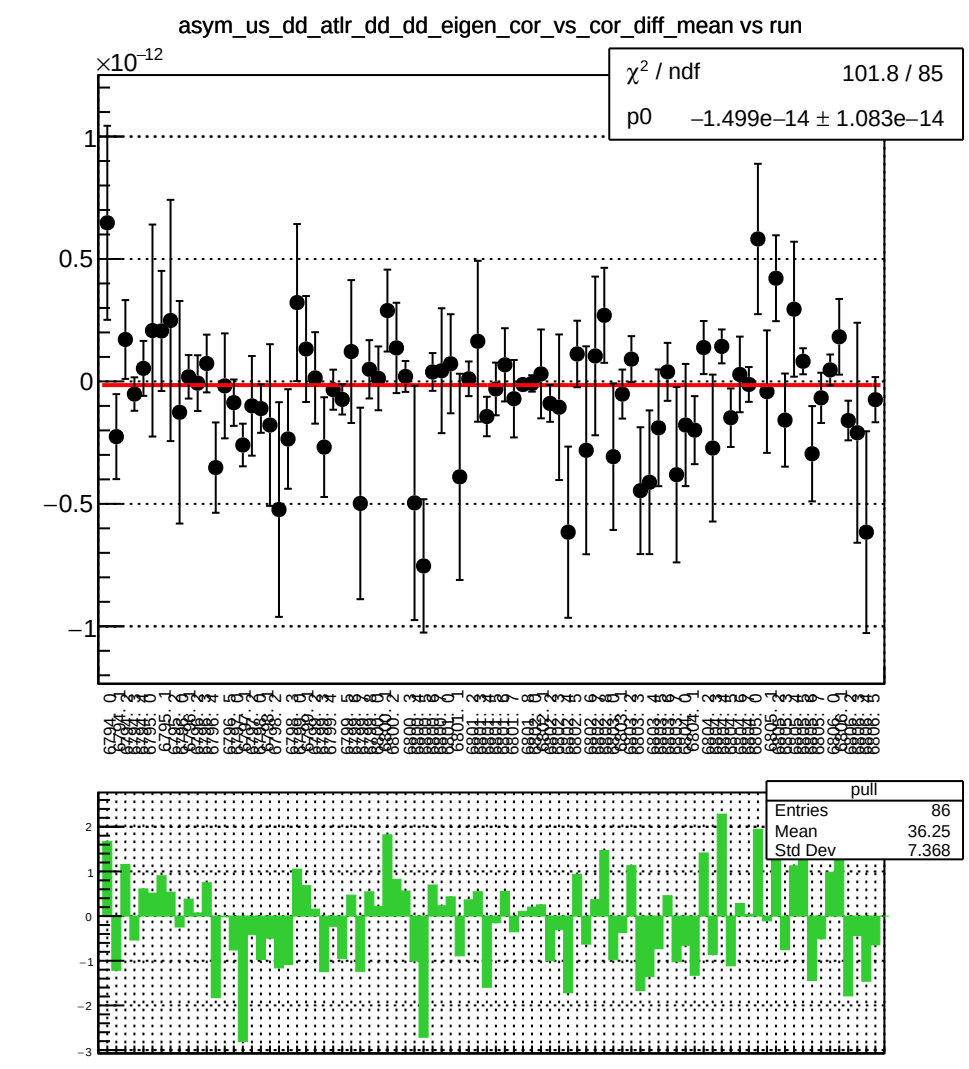

pull1D
Entries 86
Mean 0.03706
Std Dev 0.9875

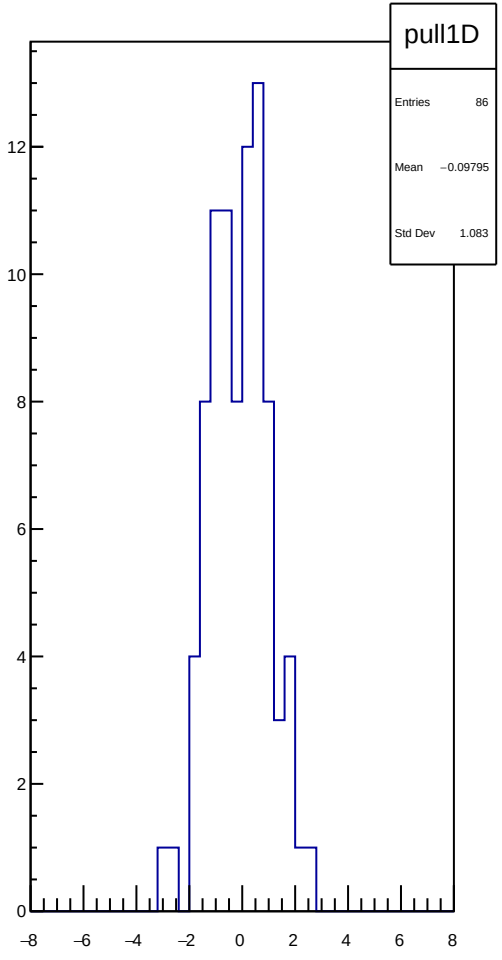

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 85
p0 36.97 ± 0.02975
70
60
50
40
30
20
10

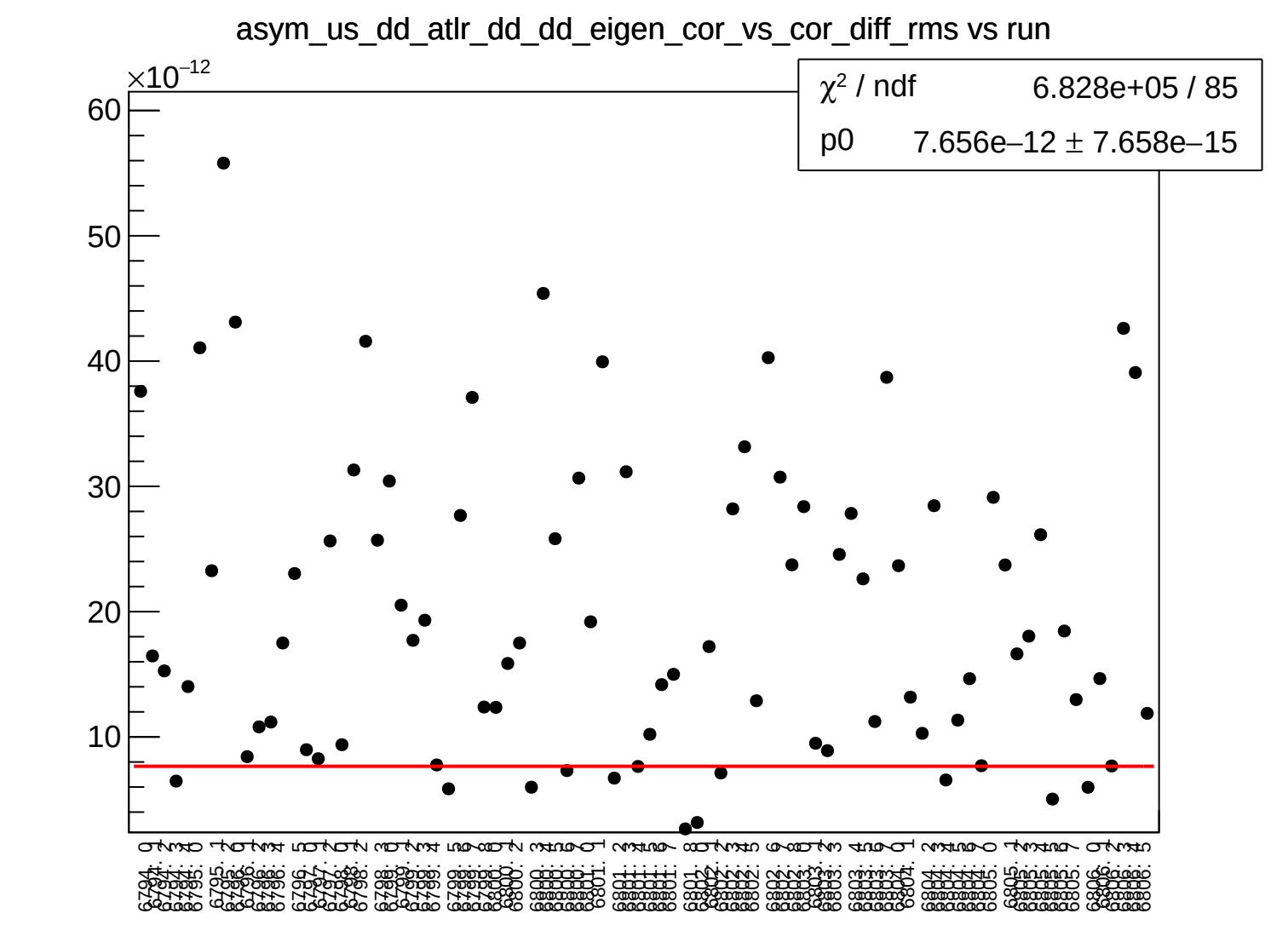

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.98 / 85
p0 −0.09175 ± 0.04207
pull
Entries 86
Mean −2.549
Std Dev 0

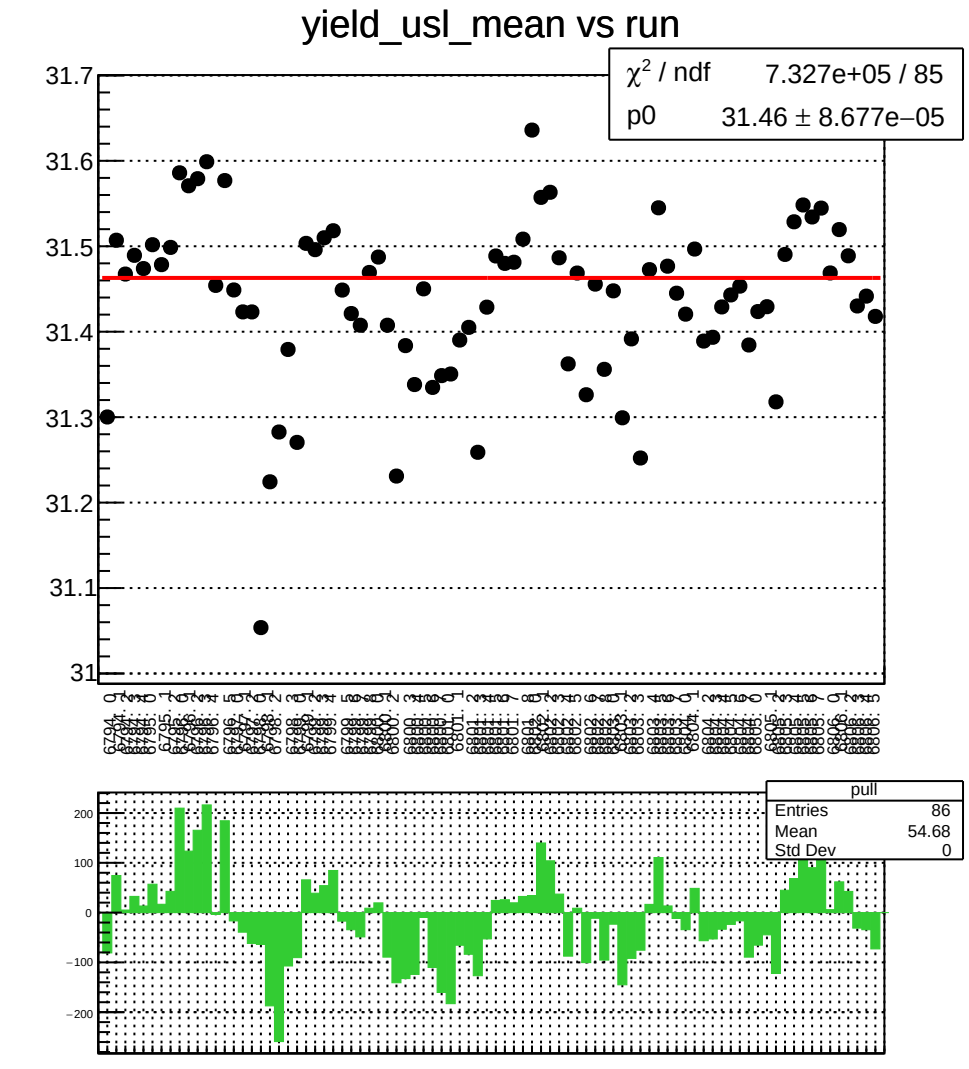

pull1D
Entries 86
Mean 0.03706
Std Dev 0.9875

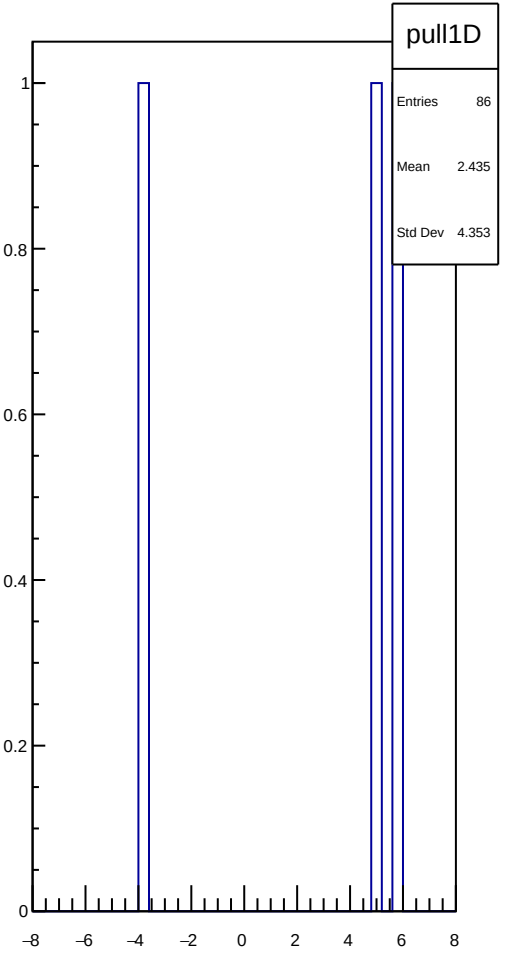

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.384e+05 / 85
p0 36.97 ± 0.02975
70
60
50
40
30
20
10

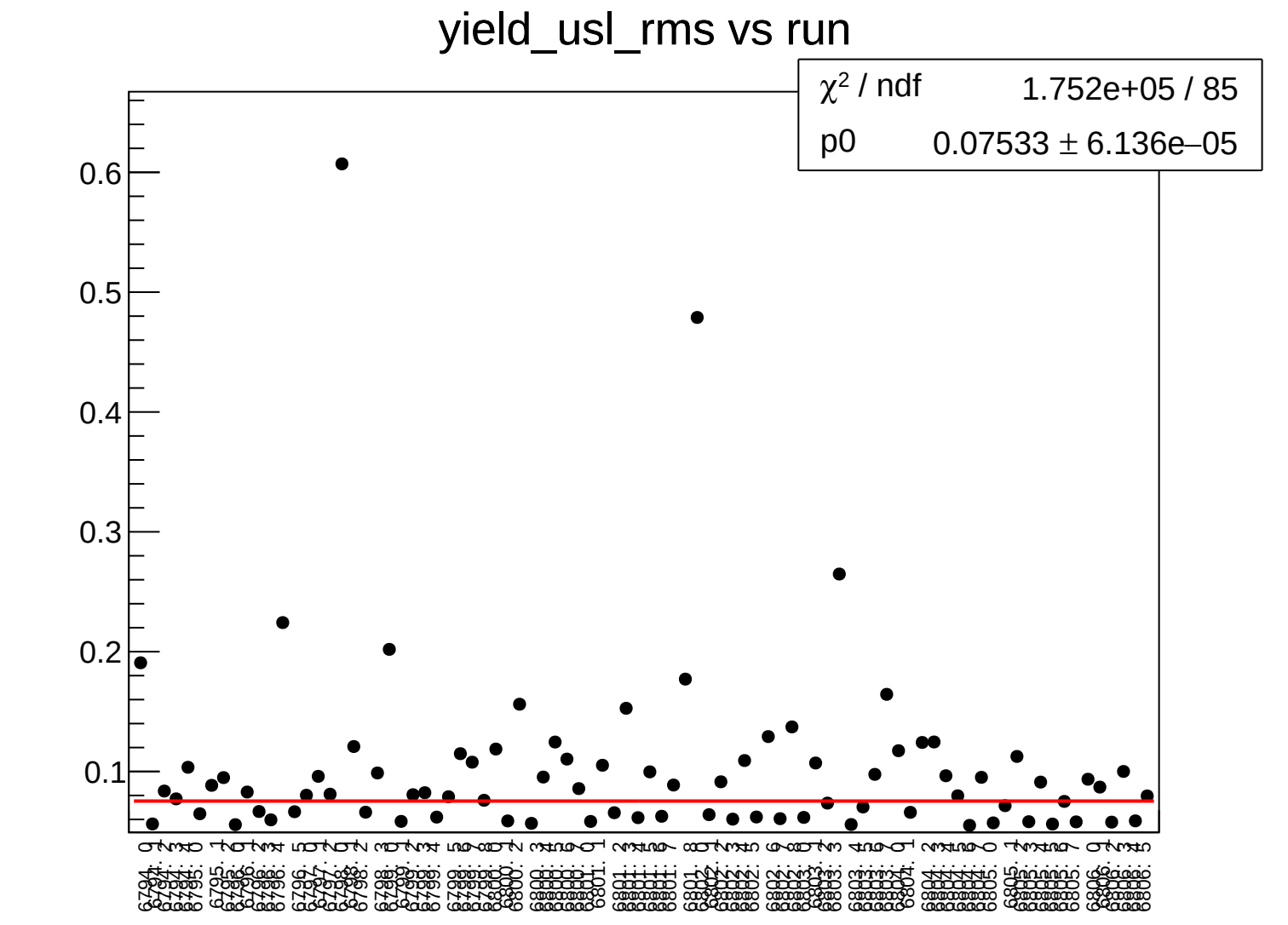

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.8 / 85
p0 −1.499e−14 ± 1.083e−14
pull
Entries 86
Mean 36.25
Std Dev 7.368

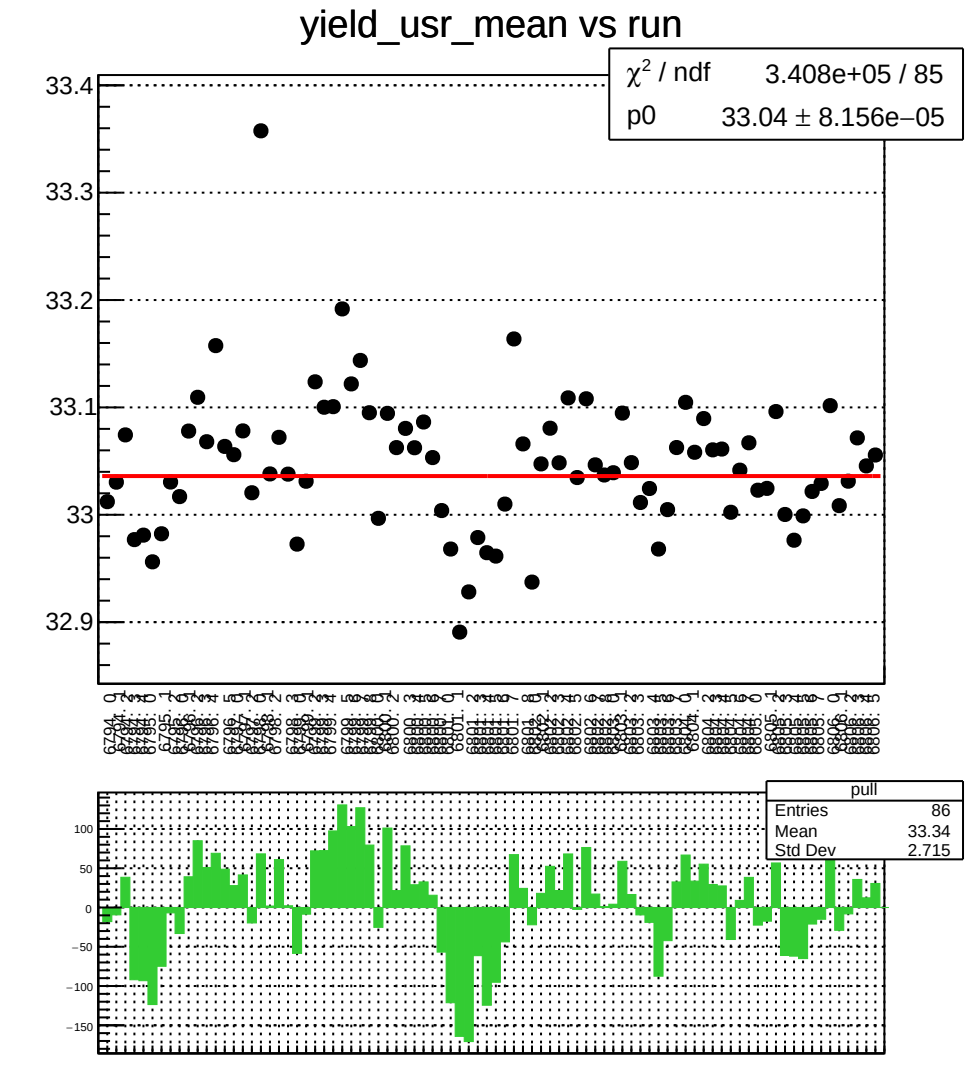

pull1D
Entries 86
Mean −0.09795
Std Dev 1.083

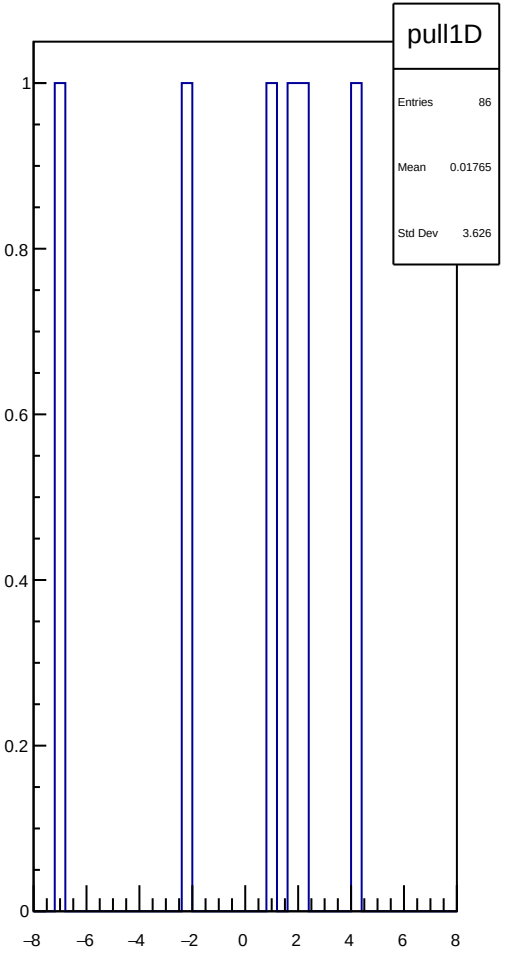

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.828e+05 / 85
p0 7.656e−12 ± 7.658e−15
60
50
40
30
20
10

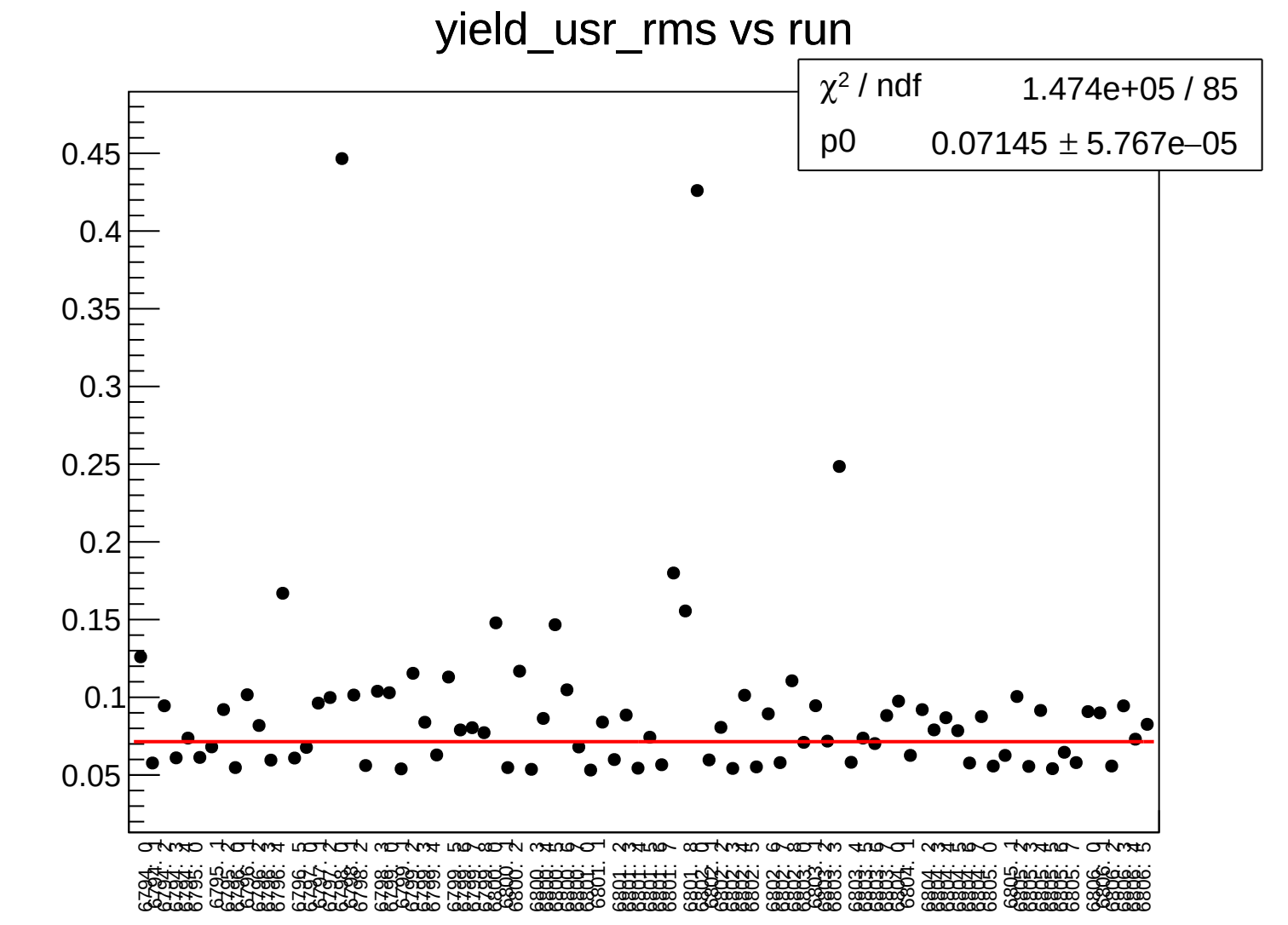

yield_usl_mean vs run
χ² / ndf 7.327e+05 / 85
p0 31.46 ± 8.677e−05
31.7
31.6
31.5
31.4
31.3
31.2
31.1
31
pull
Entries 86
Mean 54.68
Std Dev 0
200
100
0
−100
−200

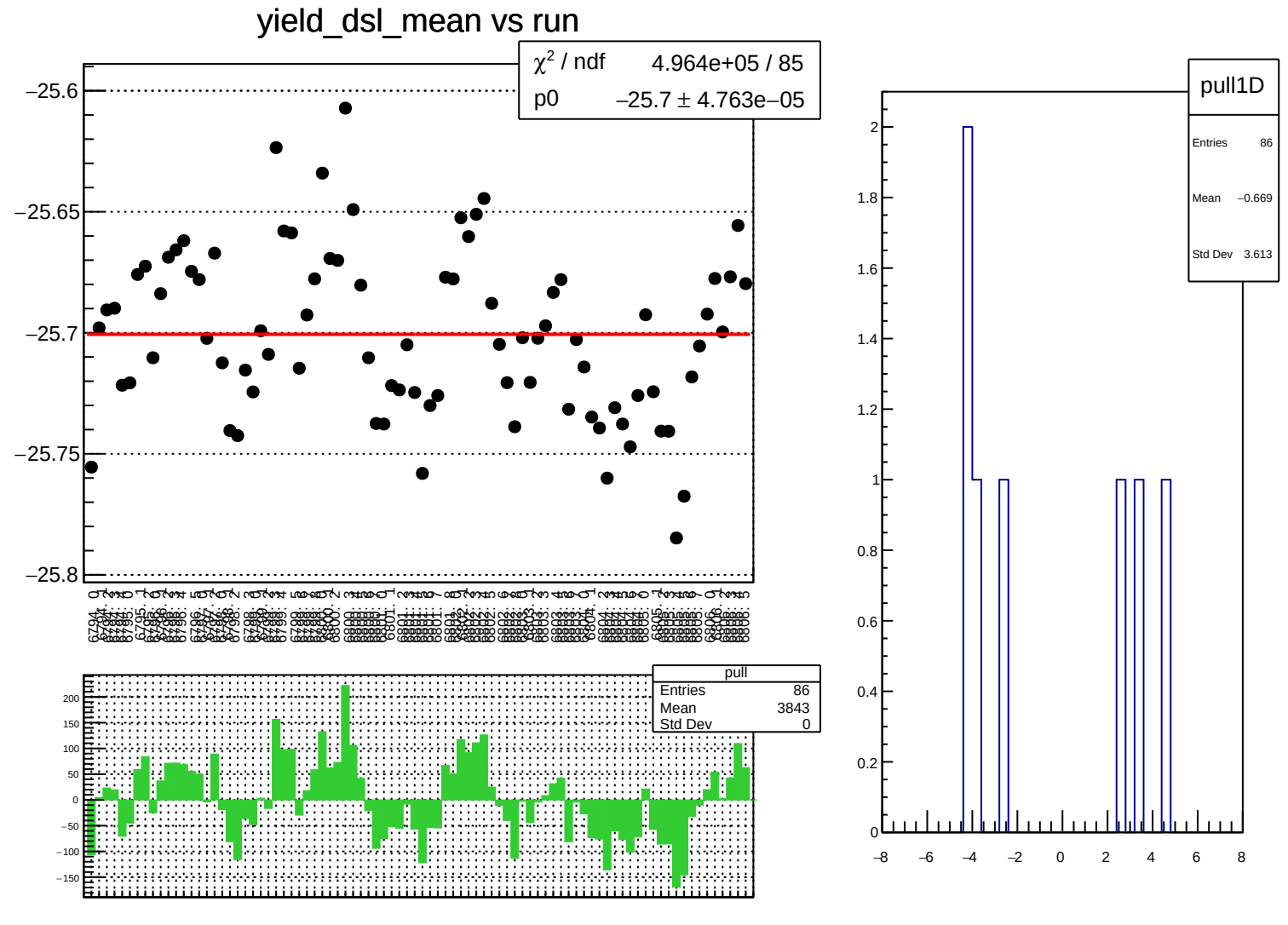

pull1D
Entries 86
Mean 2.435
Std Dev 4.353
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

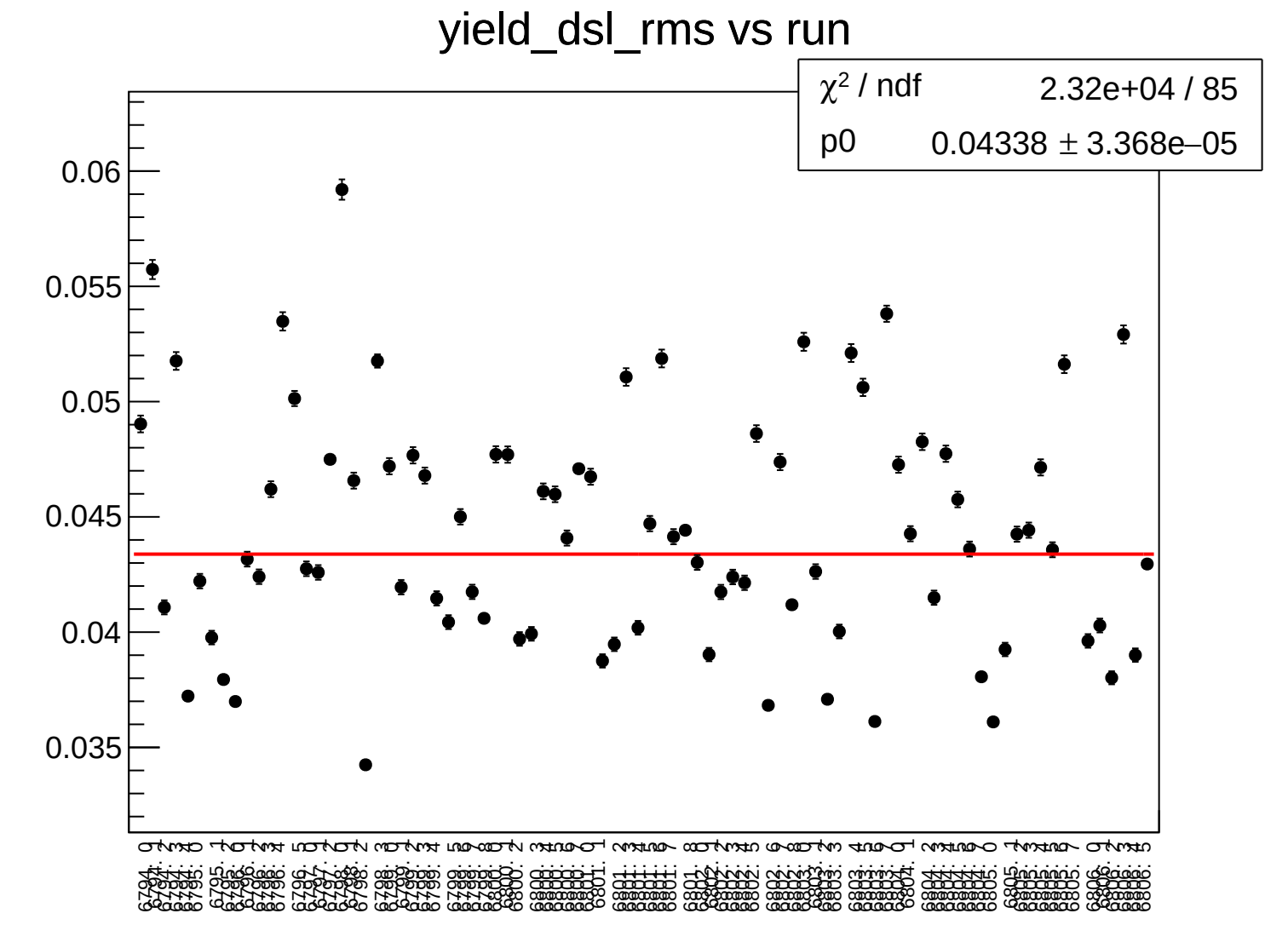

yield_usl_rms vs run
χ² / ndf 1.752e+05 / 85
p0 0.07533 ± 6.136e−05
0.6
0.5
0.4
0.3
0.2
0.1

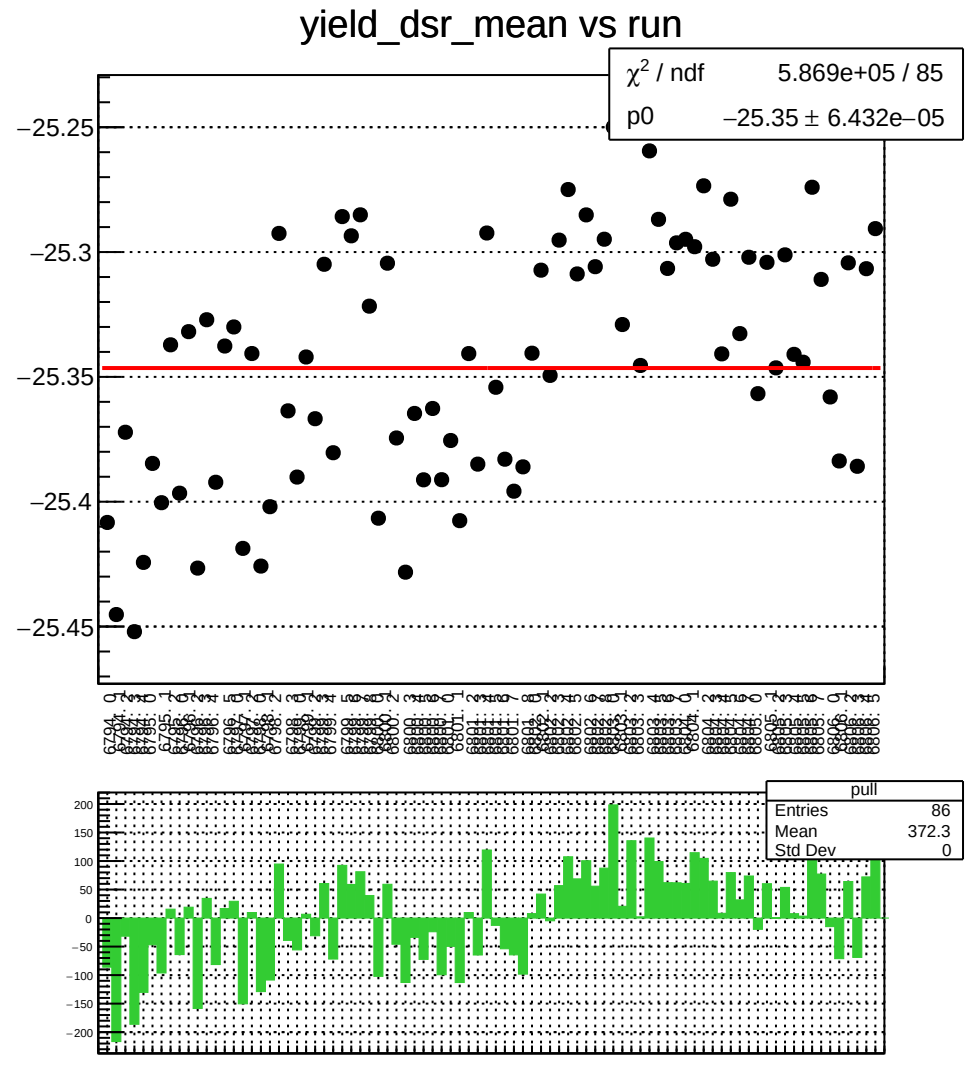

yield_usr_mean vs run
χ² / ndf 3.408e+05 / 85
p0 33.04 ± 8.156e−05
33.4
33.3
33.2
33.1
33
32.9
pull
Entries 86
Mean 33.34
Std Dev 2.715
100
50
0
−50
−100
−150

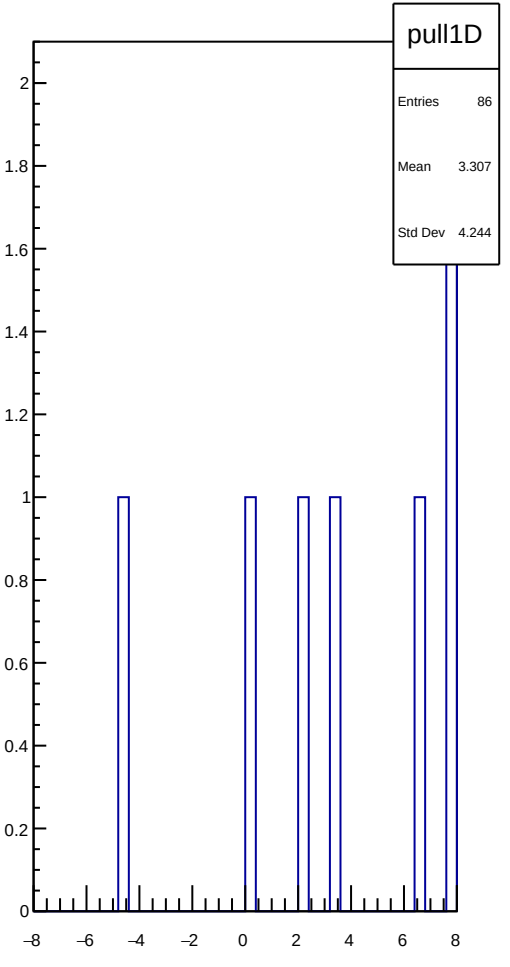

pull1D
Entries 86
Mean 0.01765
Std Dev 3.626
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

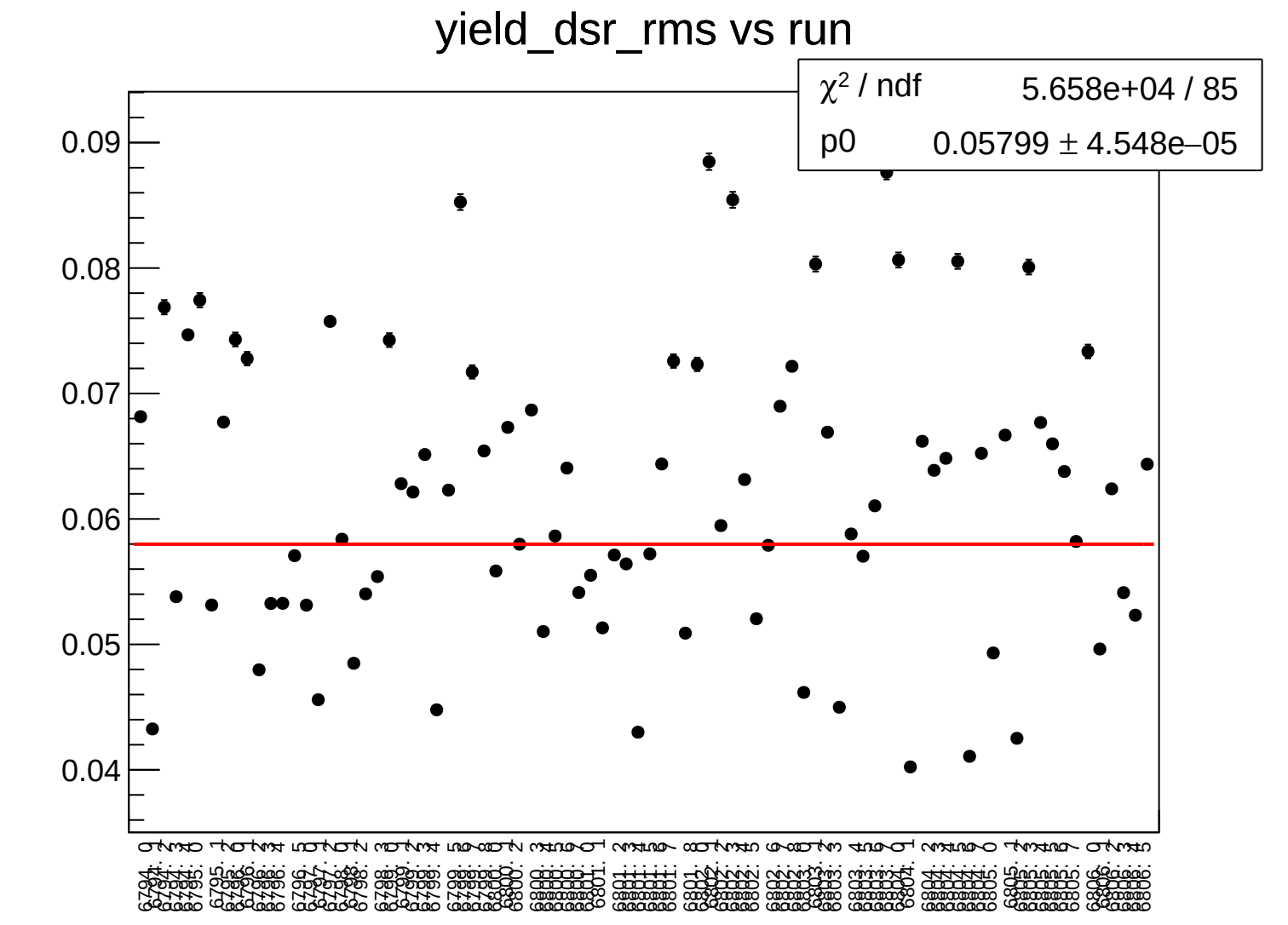

yield_usr_rms vs run
χ² / ndf 1.474e+05 / 85
p0 0.07145 ± 5.767e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

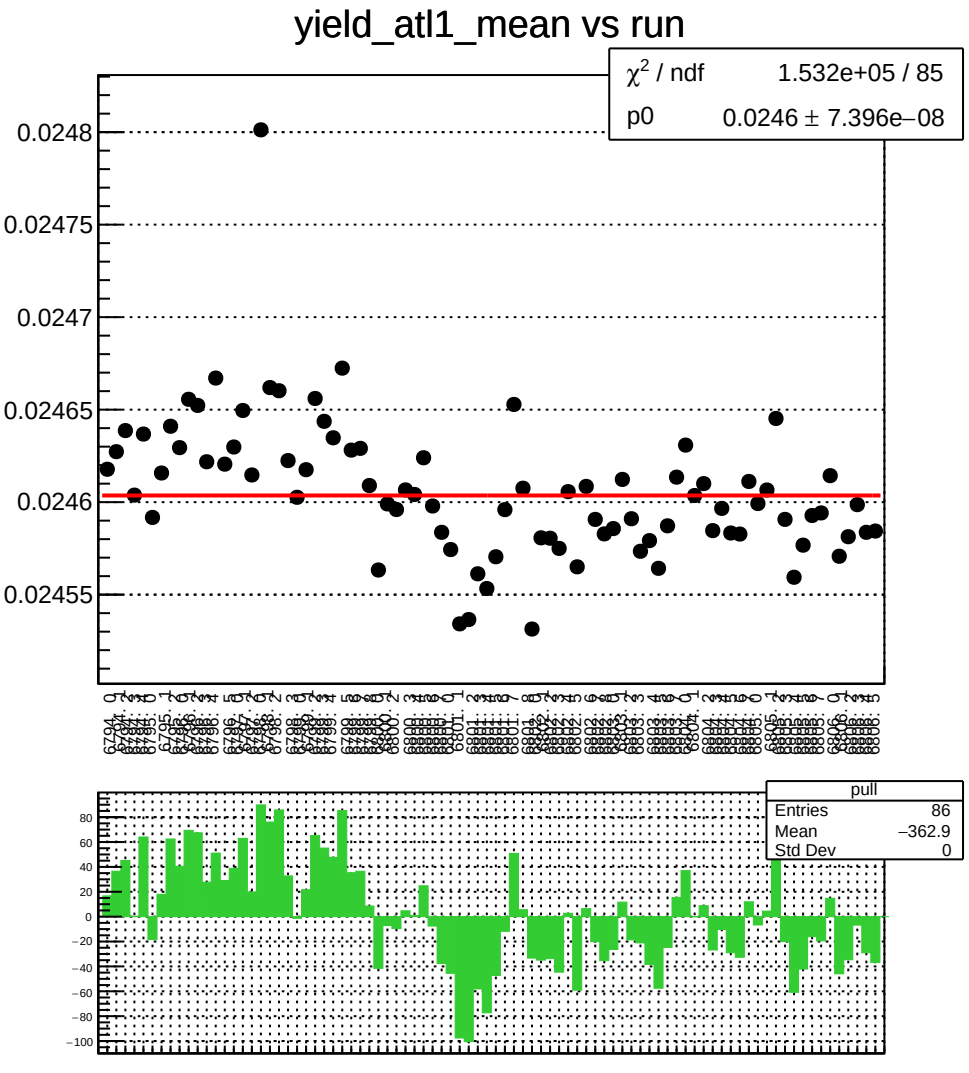

yield_dsl_mean vs run
χ² / ndf 4.964e+05 / 85
p0 −25.7 ± 4.763e−05
−25.6
−25.65
−25.7
−25.75
−25.8
pull
Entries 86
Mean 3843
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 86
Mean −0.669
Std Dev 3.613
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

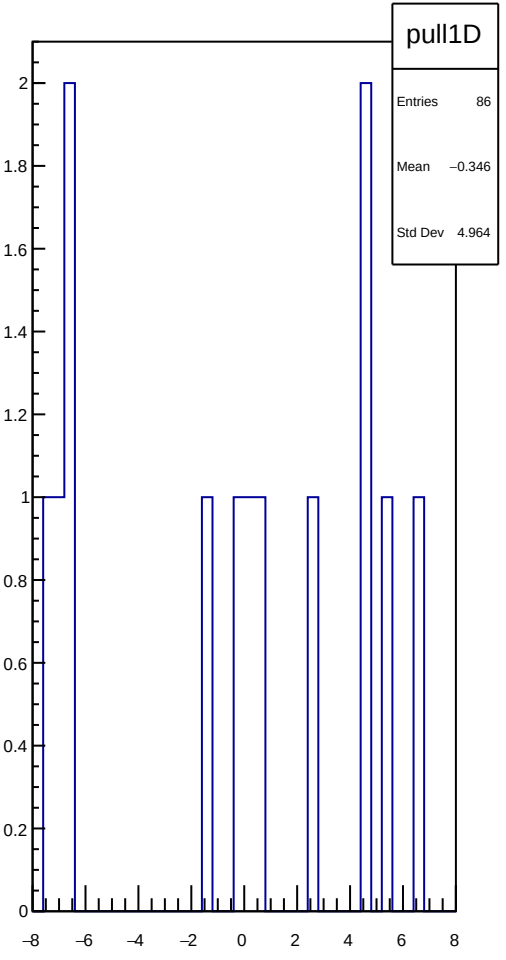

yield_dsl_rms vs run
χ² / ndf 2.32e+04 / 85
p0 0.04338 ± 3.368e−05
0.06
0.055
0.05
0.045
0.04
0.035

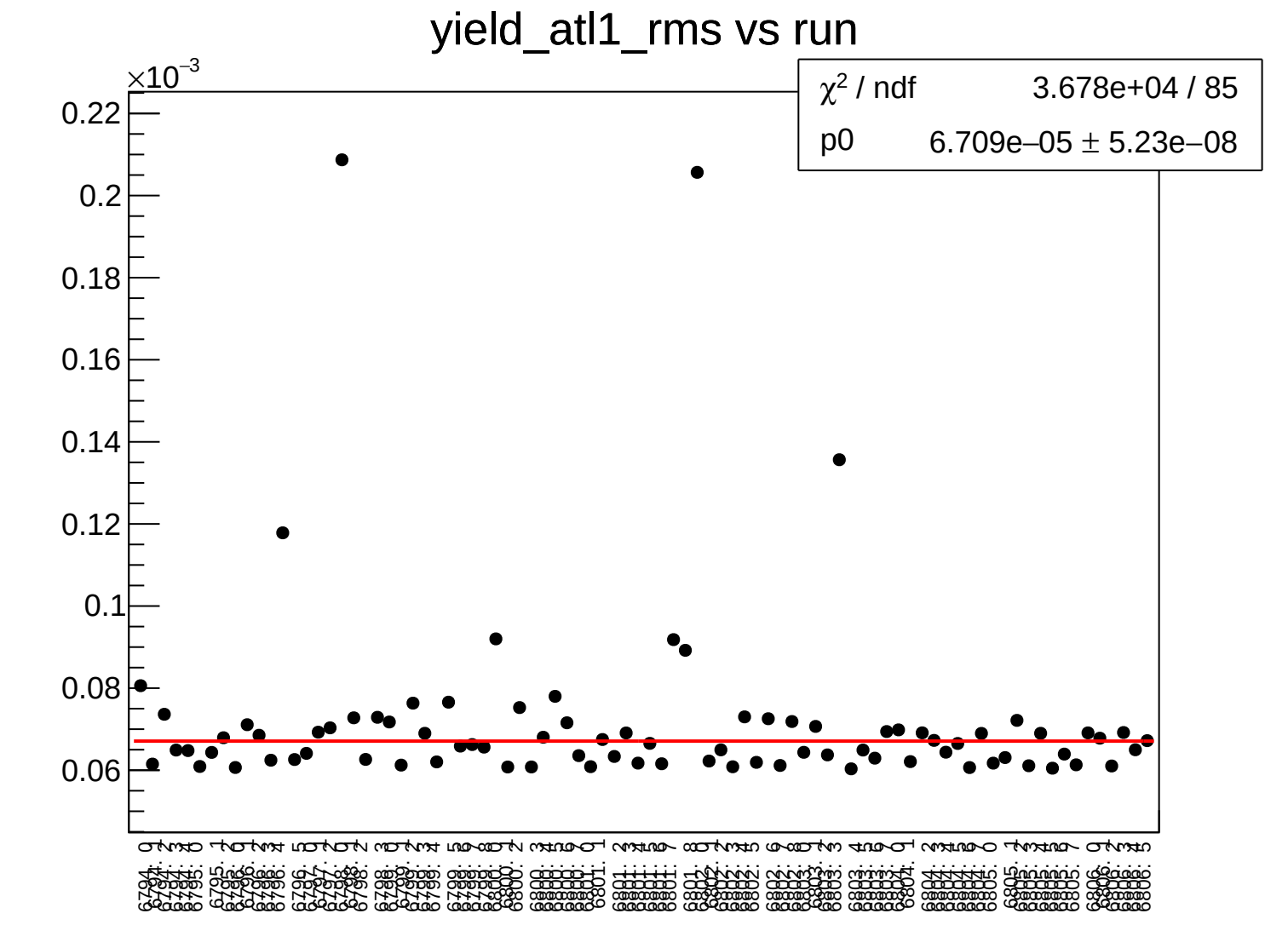

yield_dsr_mean vs run
χ² / ndf 5.869e+05 / 85
p0 −25.35 ± 6.432e−05
−25.25
−25.3
−25.35
−25.4
−25.45
pull
Entries 86
Mean 372.3
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

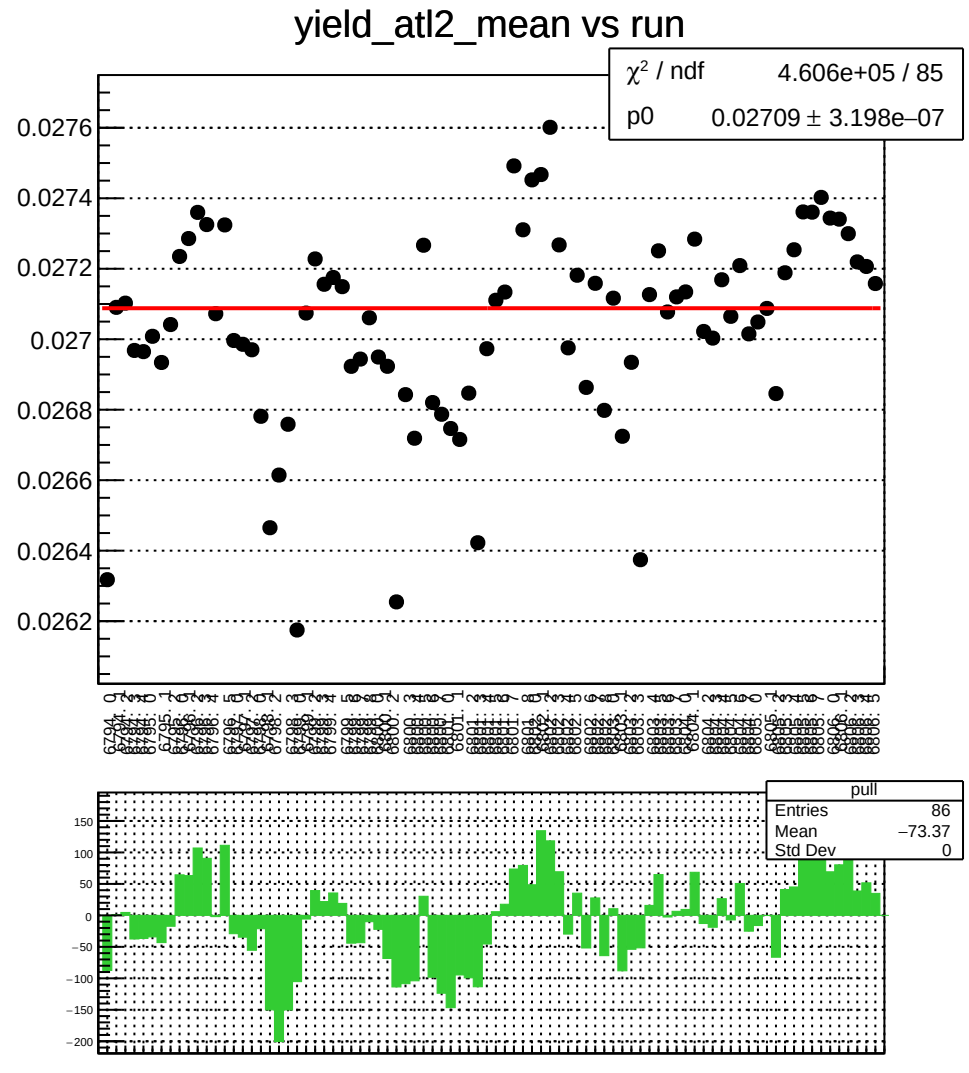

pull1D
Entries 86
Mean 3.307
Std Dev 4.244
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

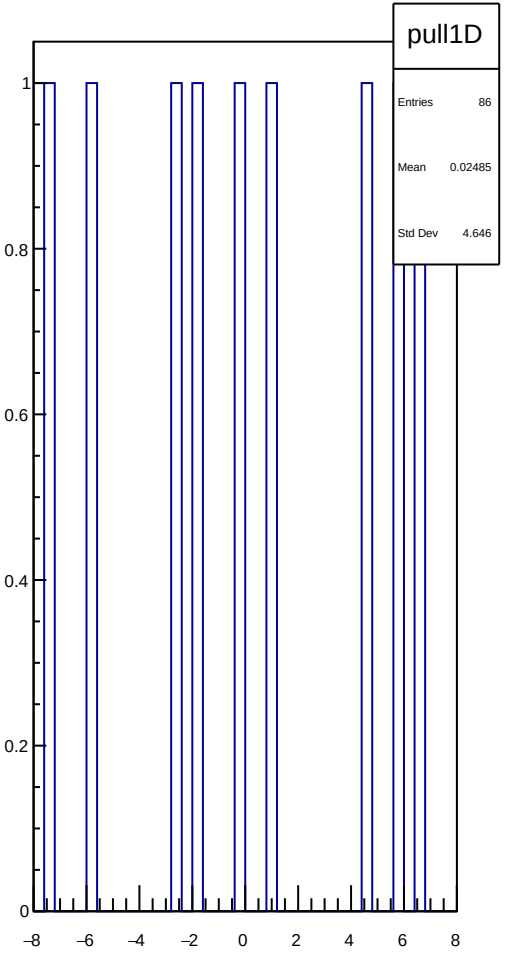

yield_dsr_rms vs run
χ² / ndf 5.658e+04 / 85
p0 0.05799 ± 4.548e–05
0.09
0.08
0.07
0.06
0.05
0.04

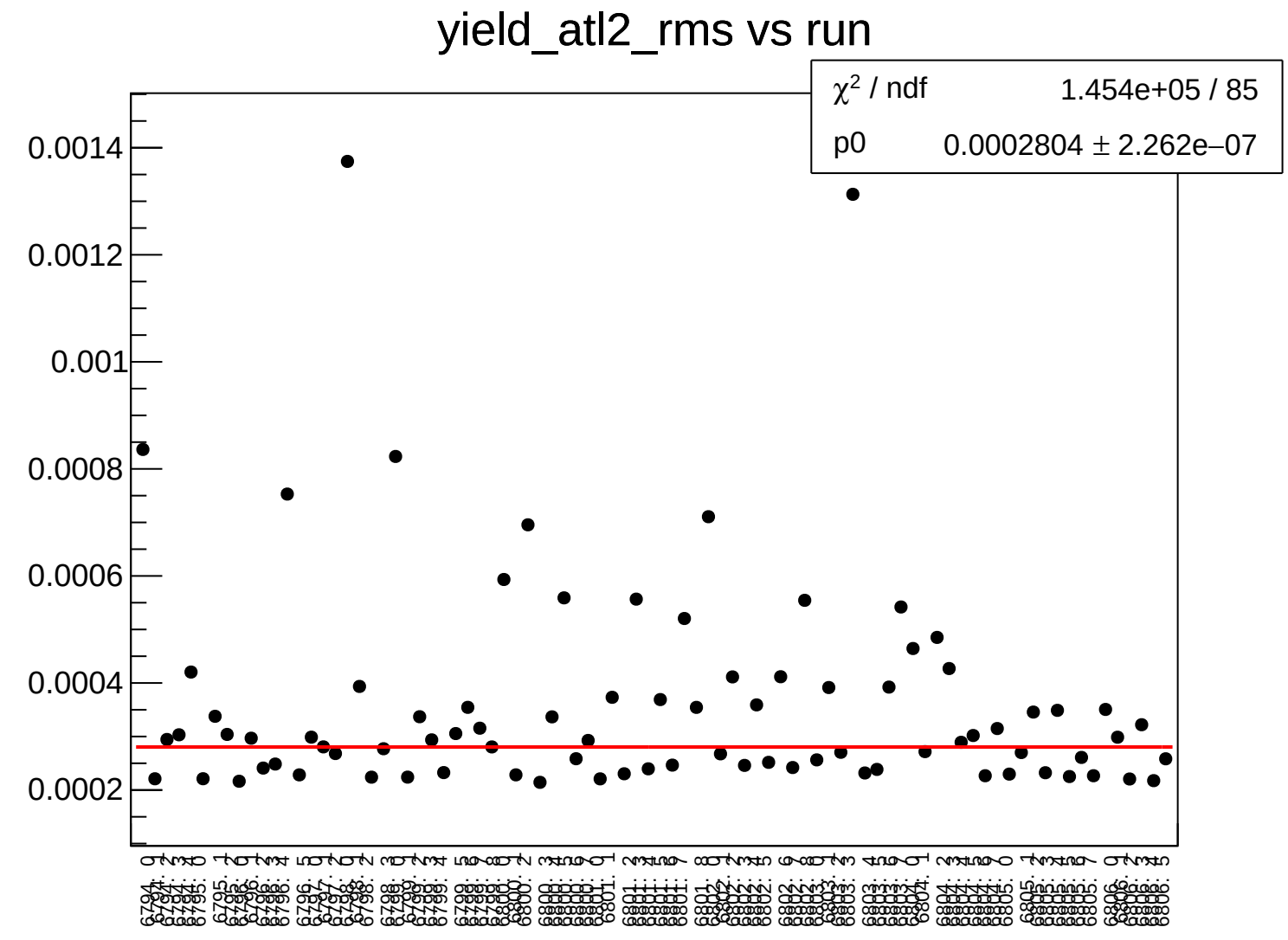

yield_atl1_mean vs run
χ² / ndf 1.532e+05 / 85
p0 0.0246 ± 7.396e−08
0.0248
0.02475
0.0247
0.02465
0.0246
0.02455
pull
Entries 86
Mean −362.9
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

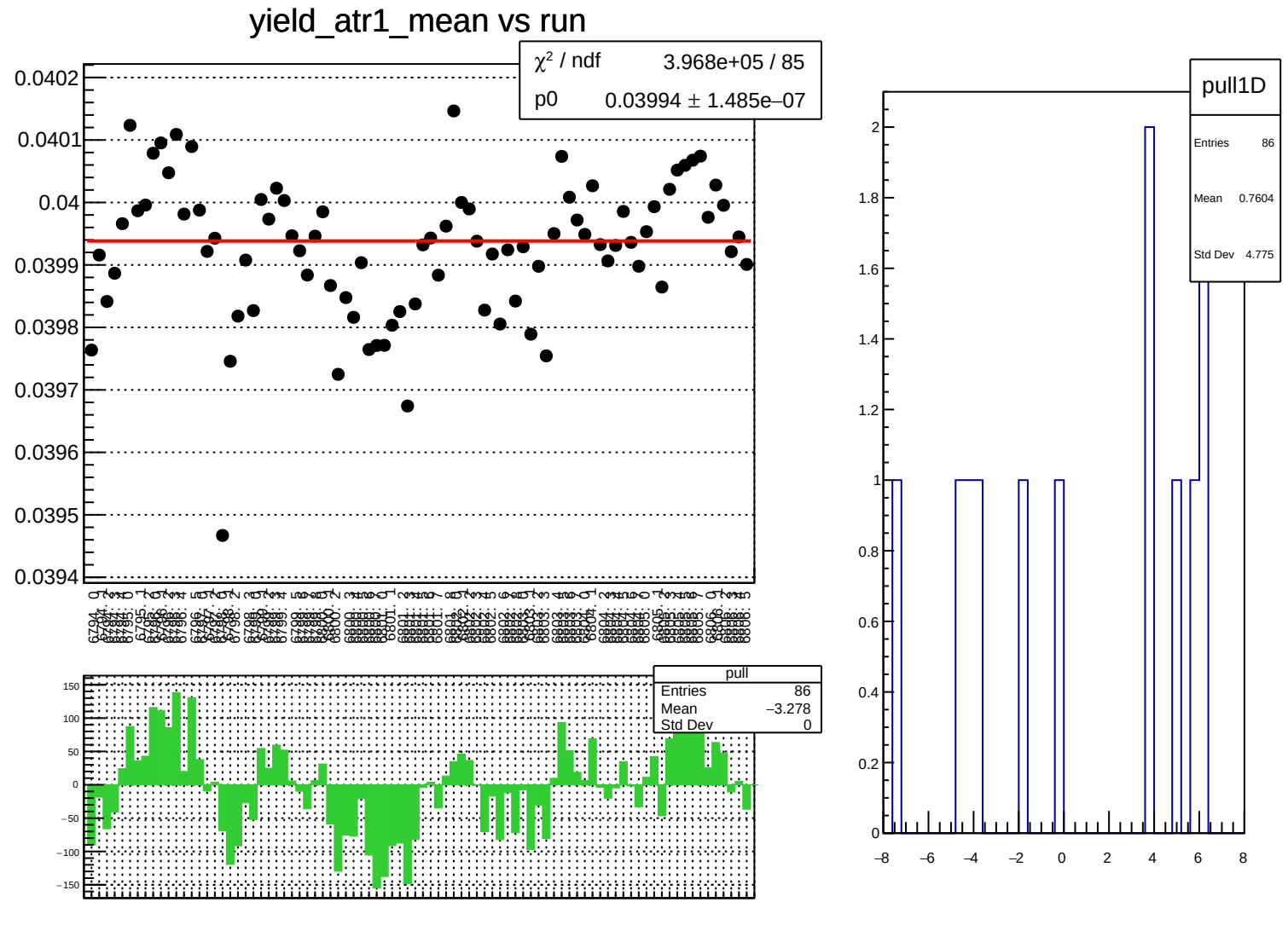

pull1D
Entries 86
Mean −0.346
Std Dev 4.964
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

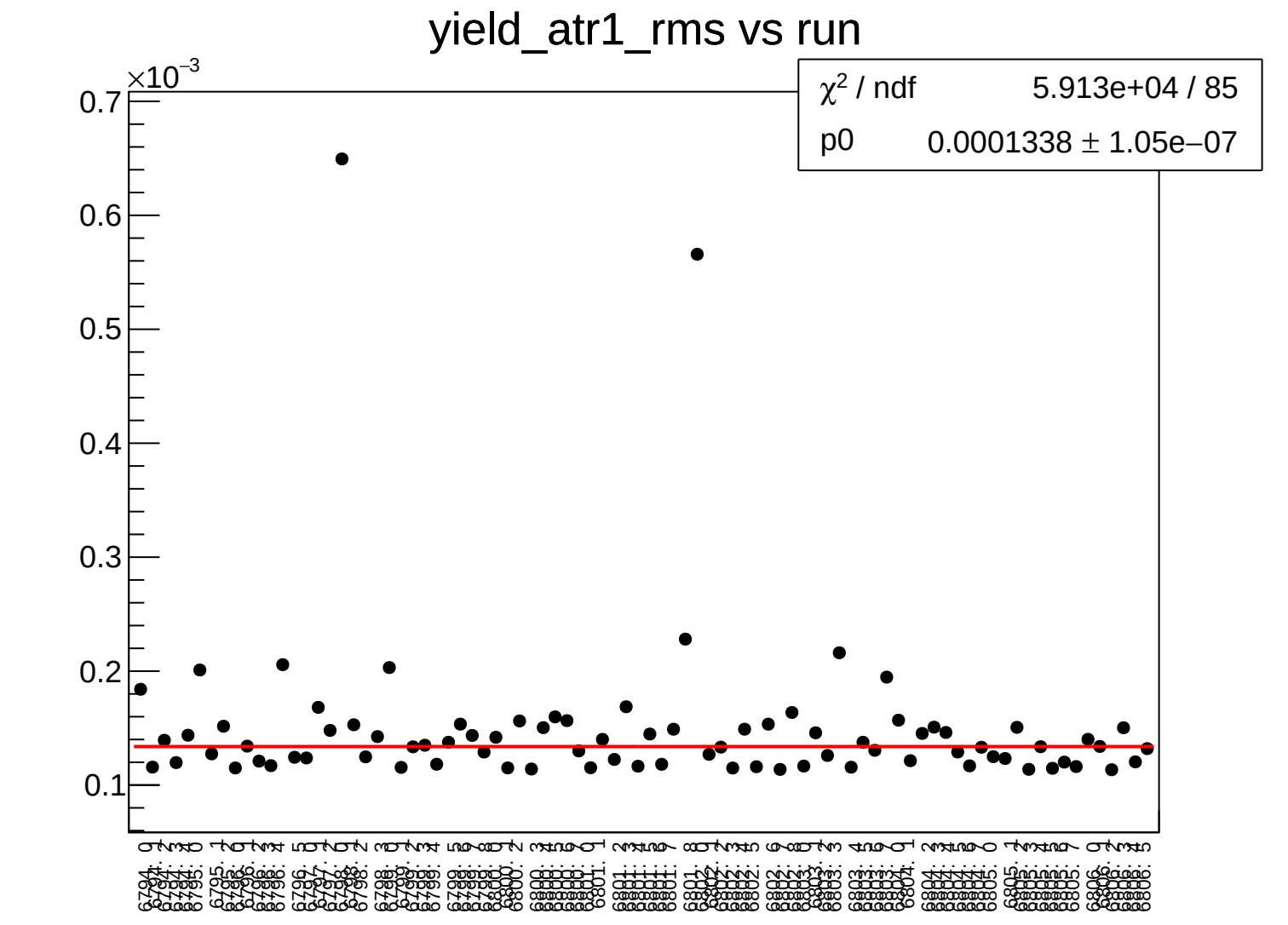

yield_atl1_rms vs run
×10⁻³
χ² / ndf 3.678e+04 / 85
p0 6.709e−05 ± 5.23e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

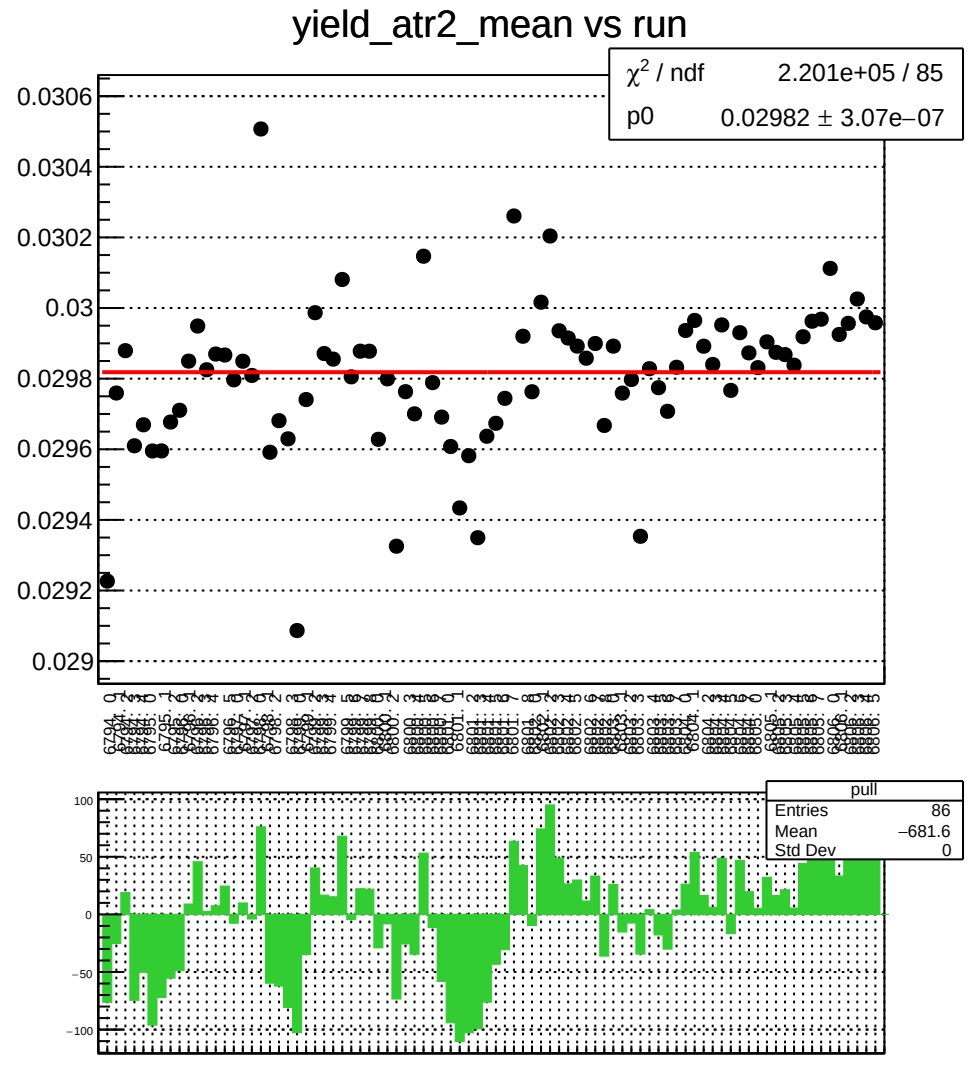

yield_atl2_mean vs run
χ² / ndf 4.606e+05 / 85
p0 0.02709 ± 3.198e−07
0.0276
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
pull
Entries 86
Mean −73.37
Std Dev 0
150
100
50
0
−50
−100
−150
−200

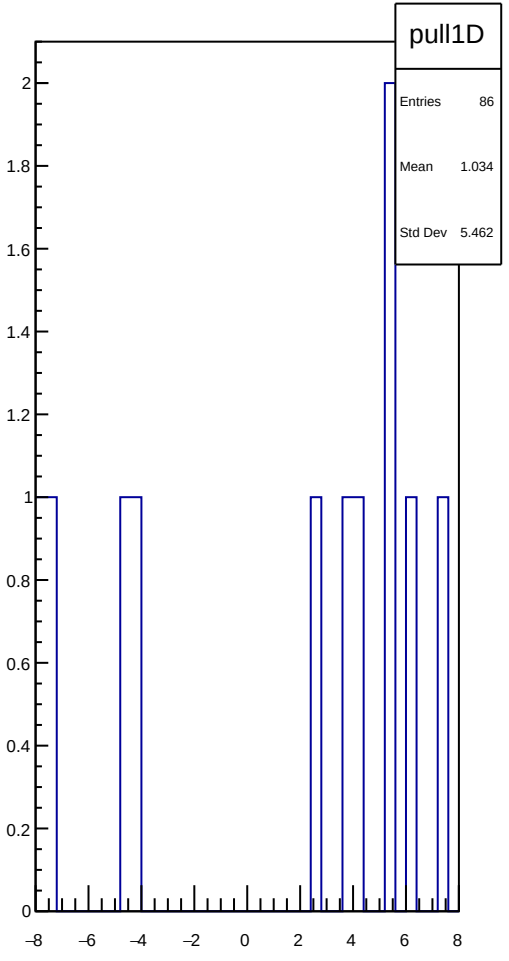

pull1D
Entries 86
Mean 0.02485
Std Dev 4.646
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

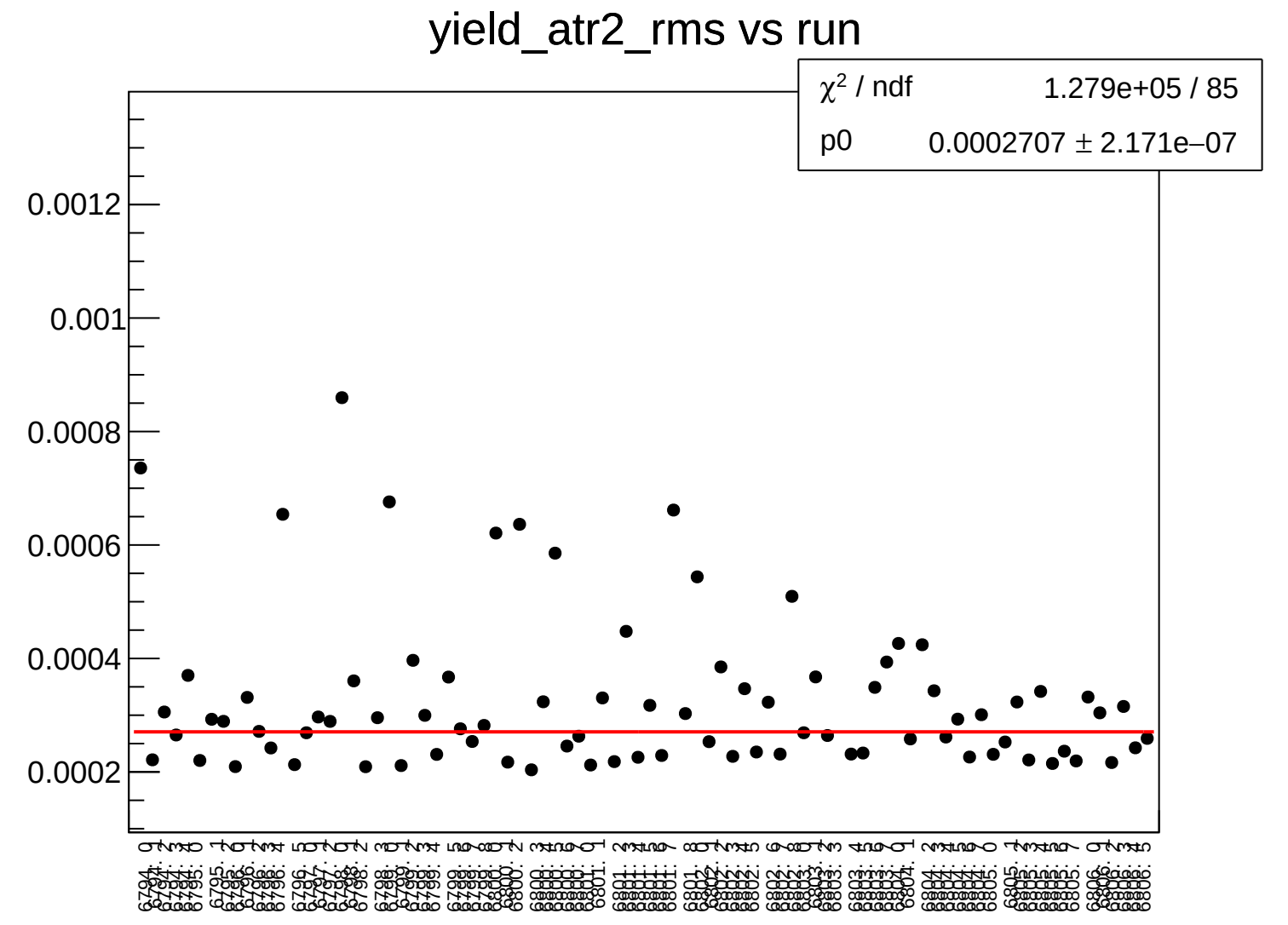

yield_atl2_rms vs run
χ² / ndf 1.454e+05 / 85
p0 0.0002804 ± 2.262e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

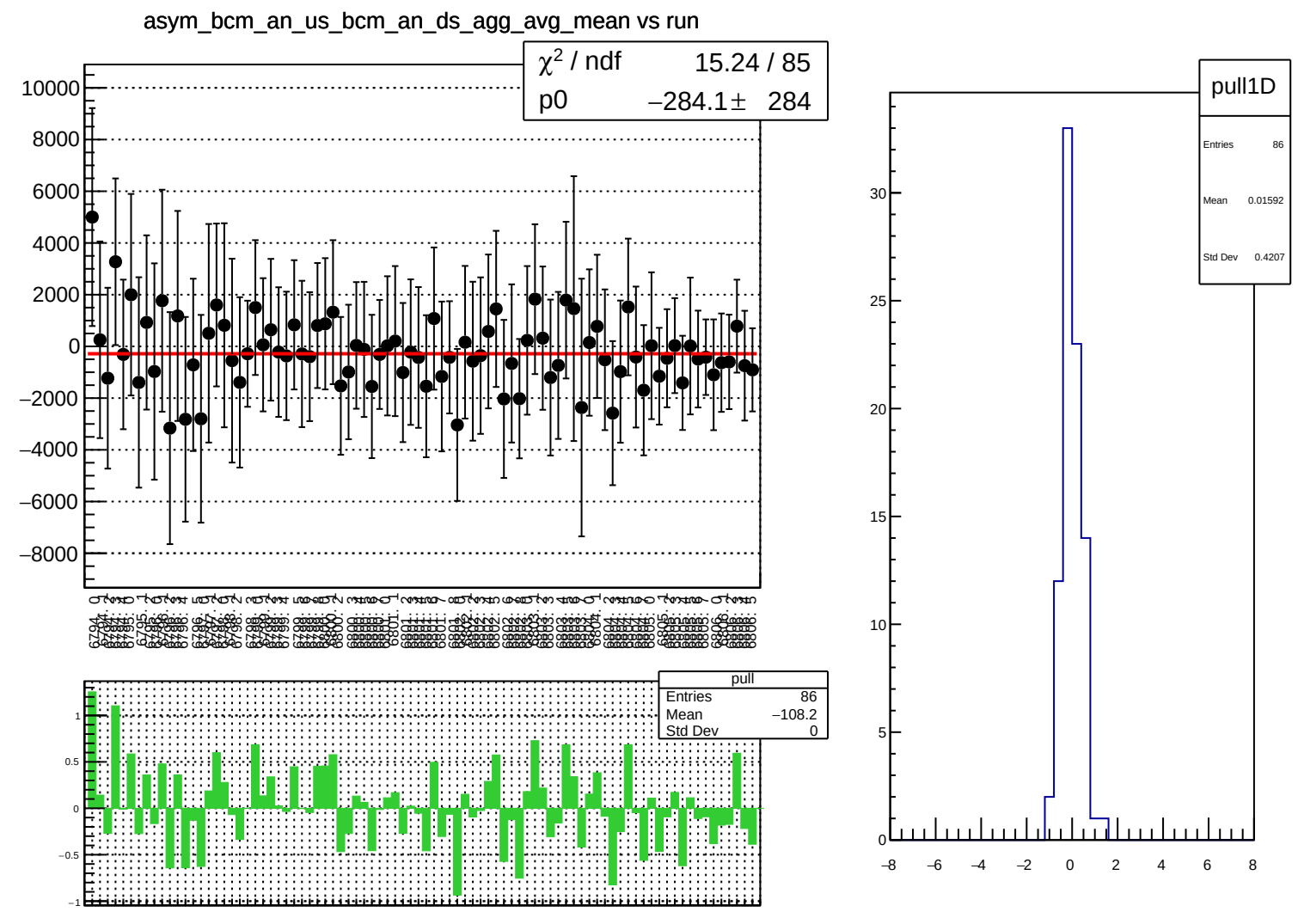

yield_atr1_mean vs run
χ² / ndf 3.968e+05 / 85
p0 0.03994 ± 1.485e−07
0.0402
0.0401
0.04
0.0399
0.0398
0.0397
0.0396
0.0395
0.0394
pull
Entries 86
Mean −3.278
Std Dev 0
150
100
50
0
−50
−100
−150
pull1D
Entries 86
Mean 0.7604
Std Dev 4.775
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

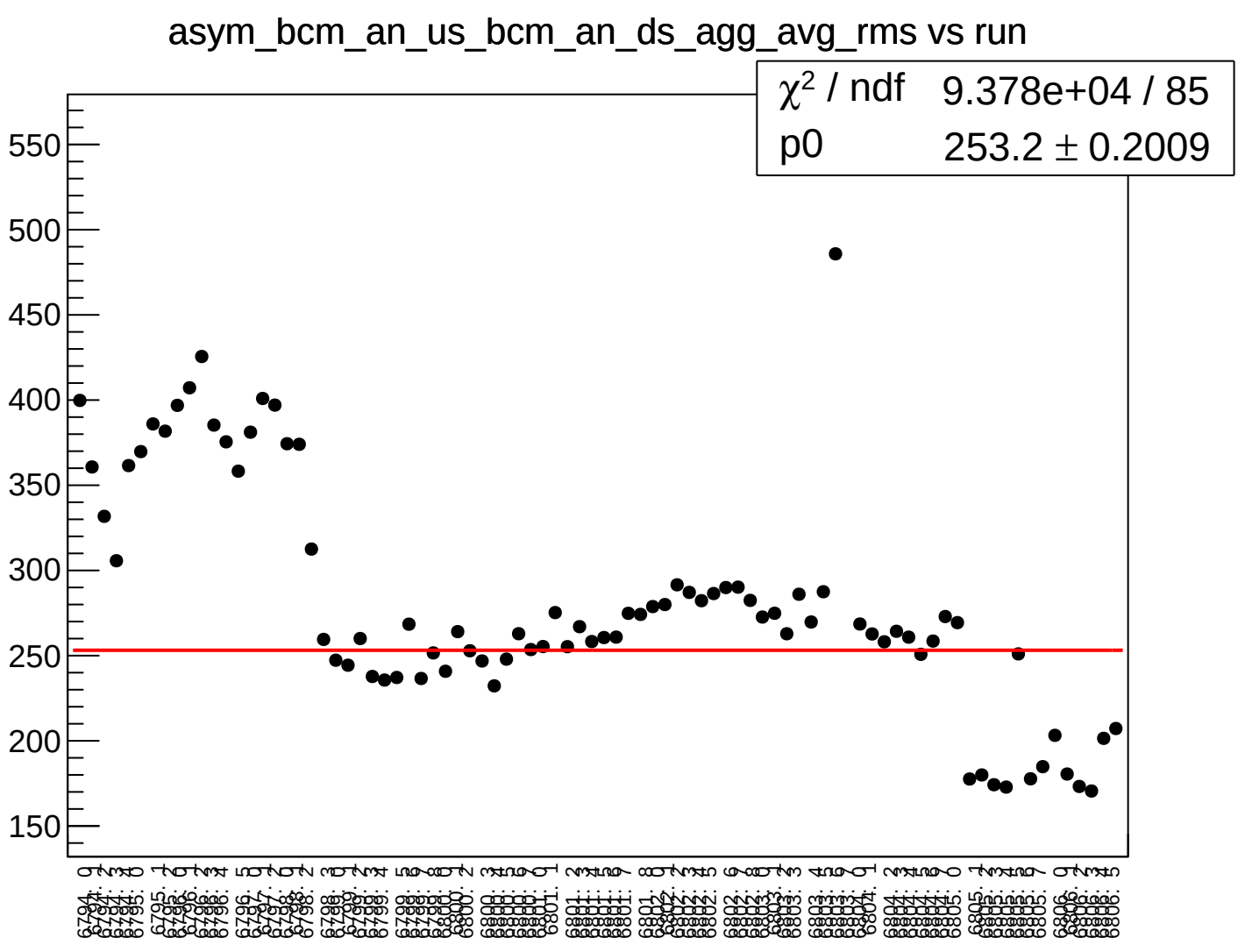

yield_atr1_rms vs run
×10⁻³
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.913e+04 / 85
p0 0.0001338 ± 1.05e−07

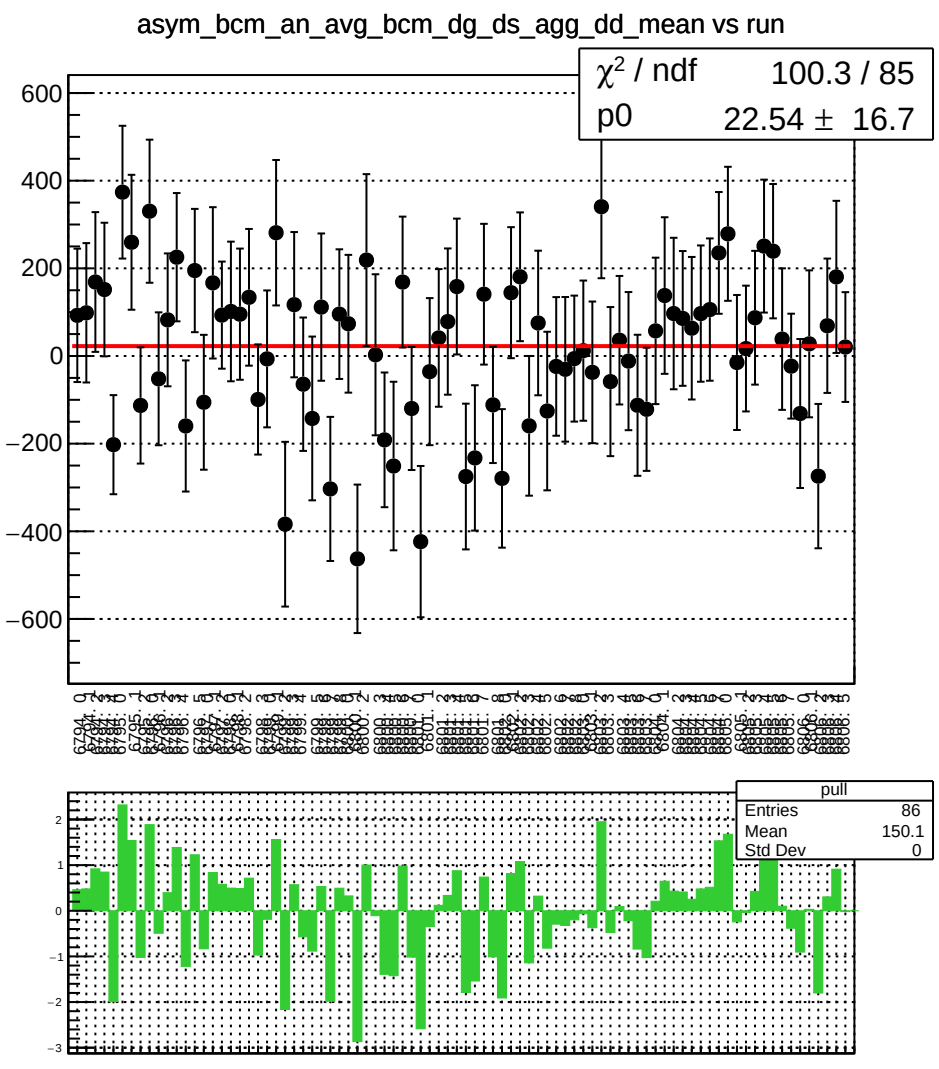

yield_atr2_mean vs run
χ² / ndf 2.201e+05 / 85
p0 0.02982 ± 3.07e−07
0.0306
0.0304
0.0302
0.03
0.0298
0.0296
0.0294
0.0292
0.029
pull
Entries 86
Mean −681.6
Std Dev 0
100
50
0
−50
−100

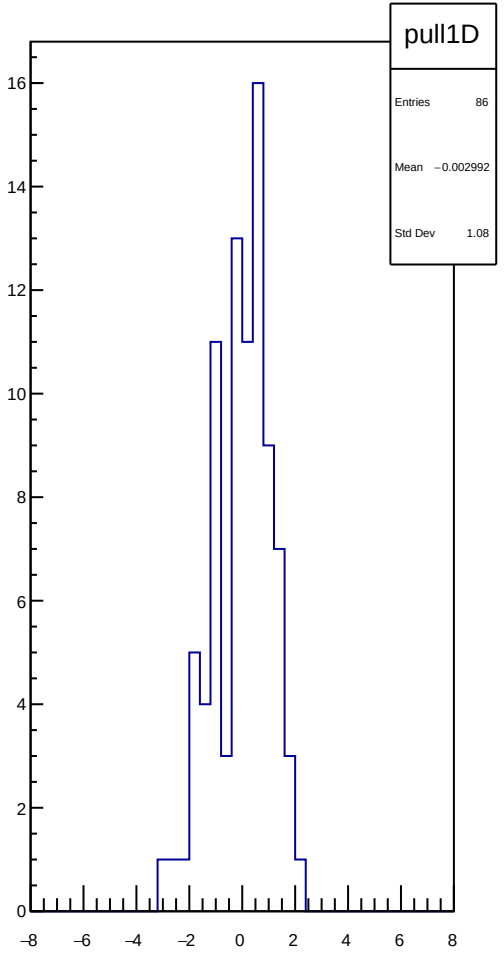

pull1D
Entries 86
Mean 1.034
Std Dev 5.462
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

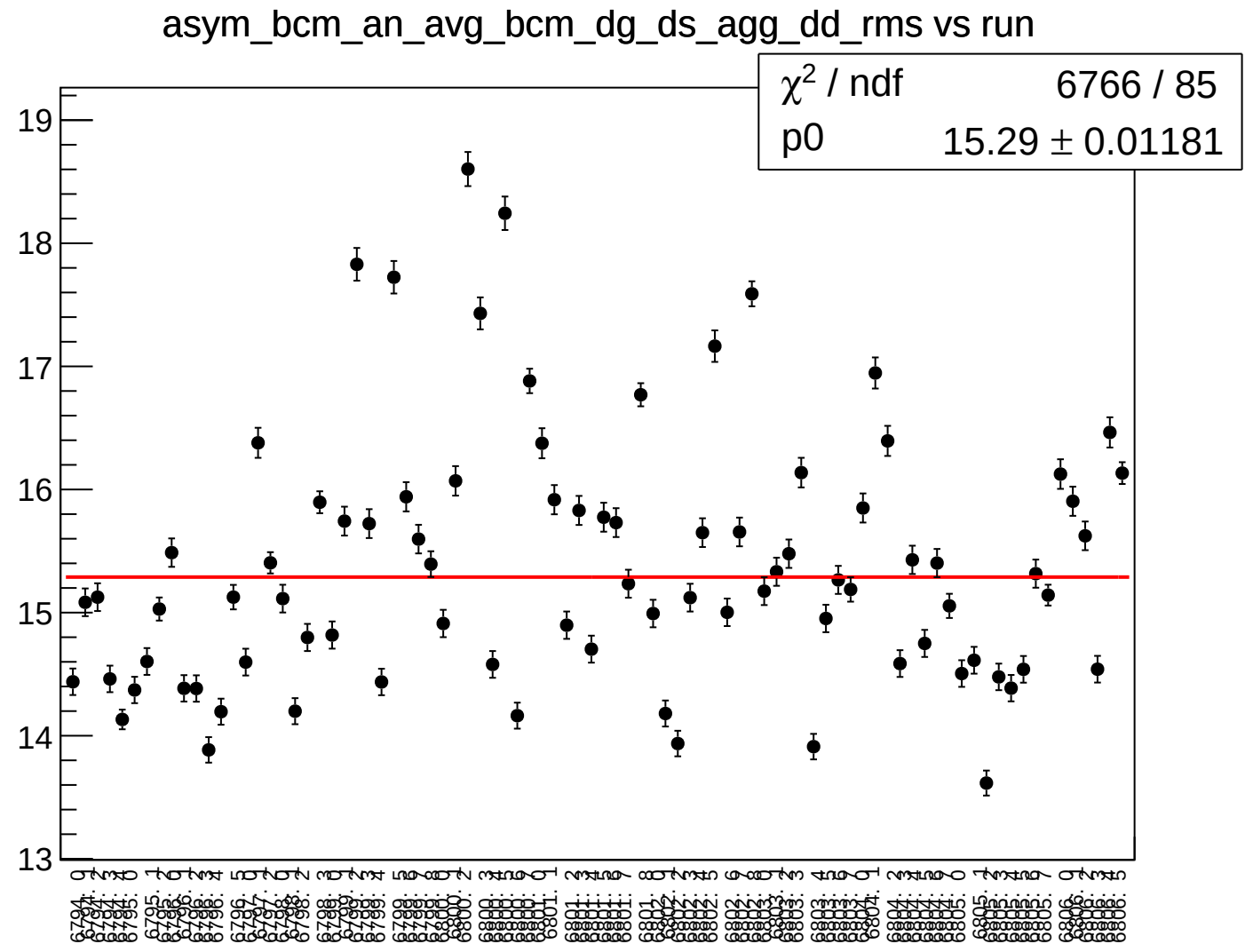

yield_atr2_rms vs run
χ² / ndf 1.279e+05 / 85
p0 0.0002707 ± 2.171e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

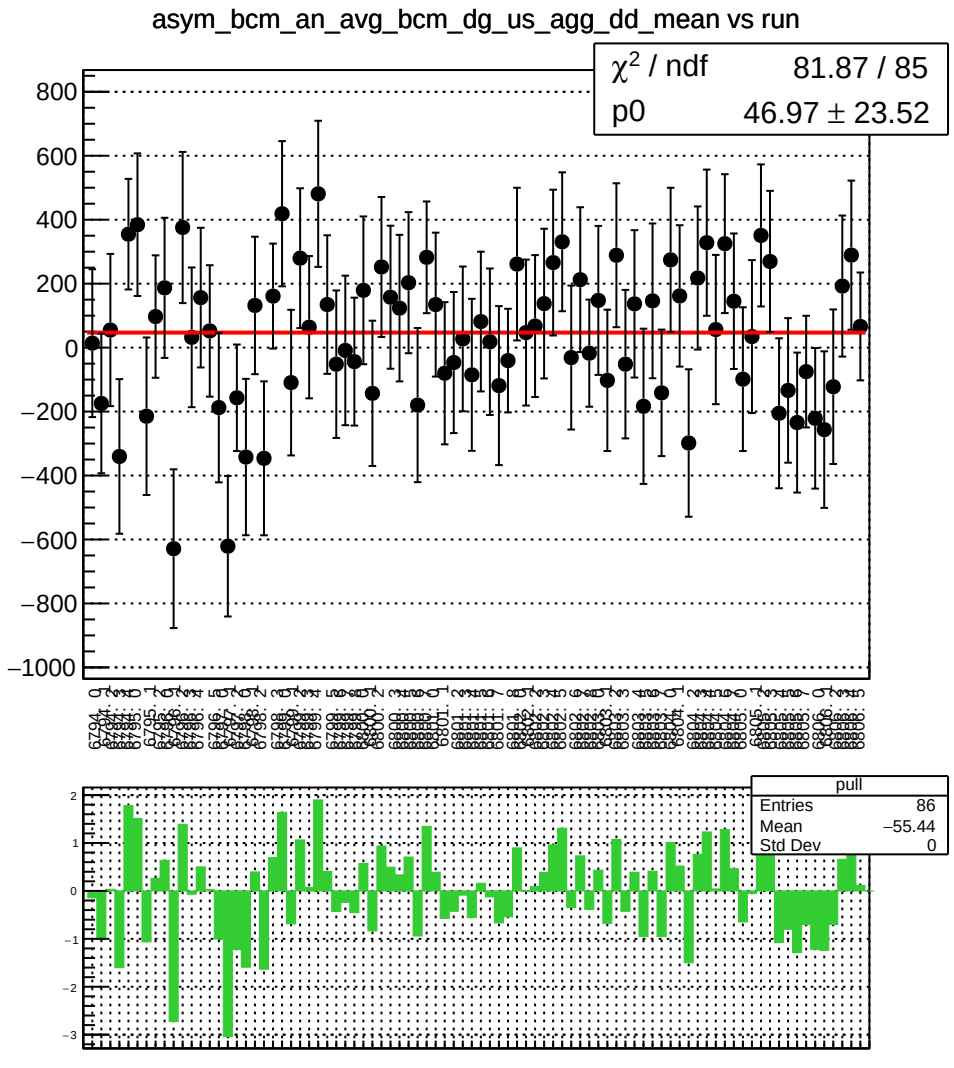

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.24 / 85
p0 −284.1± 284
pull
Entries 86
Mean −108.2
Std Dev 0
pull1D
Entries 86
Mean 0.01592
Std Dev 0.4207

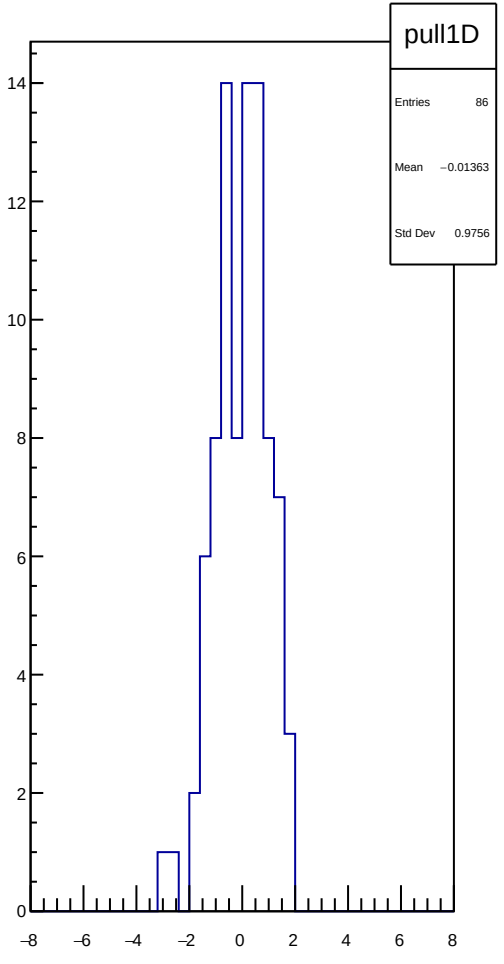

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.378e+04 / 85
p0 253.2 ± 0.2009
550
500
450
400
350
300
250
200
150

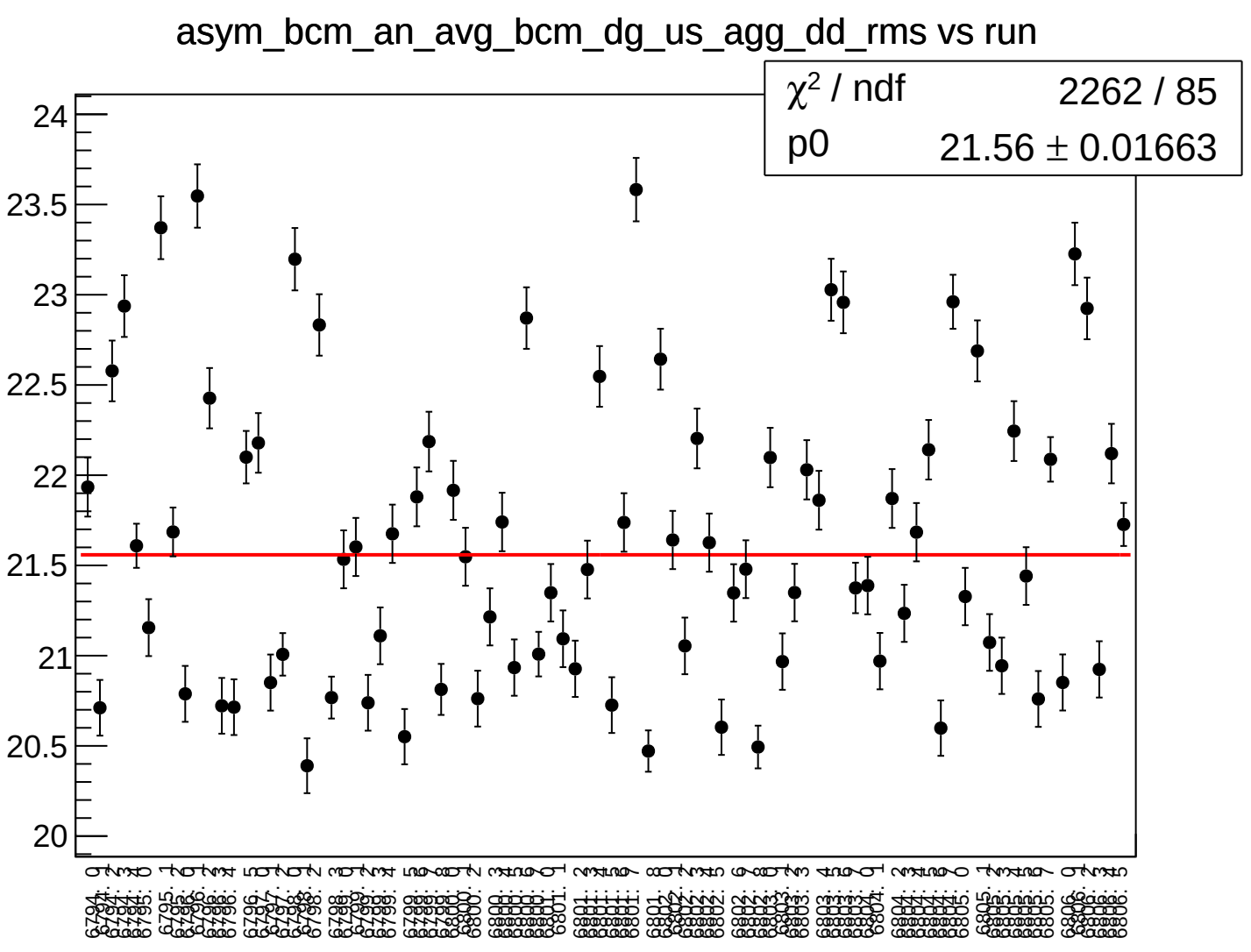

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 100.3 / 85
p0 22.54 ± 16.7
pull
Entries 86
Mean 150.1
Std Dev 0

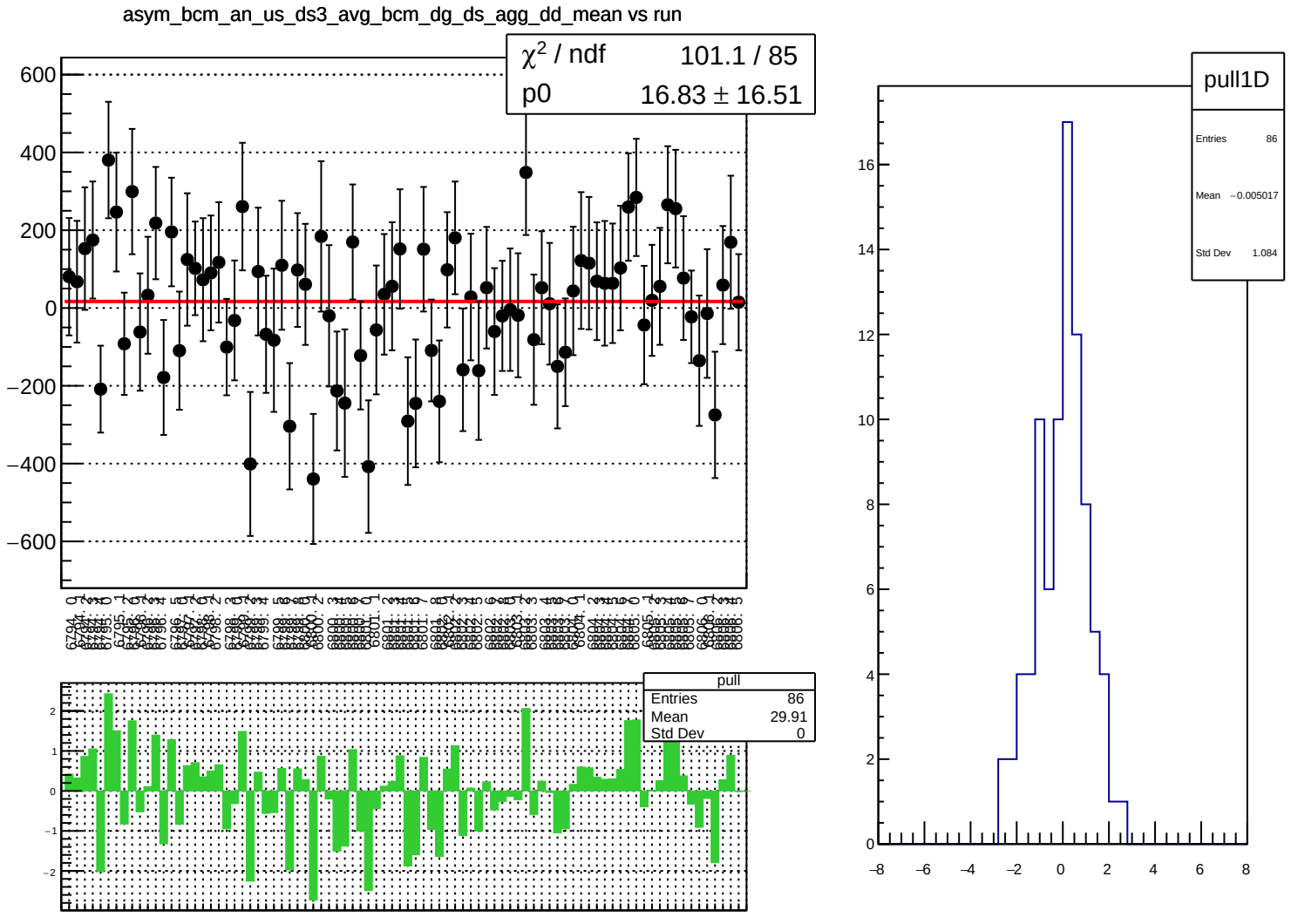

pull1D
Entries 86
Mean −0.002992
Std Dev 1.08

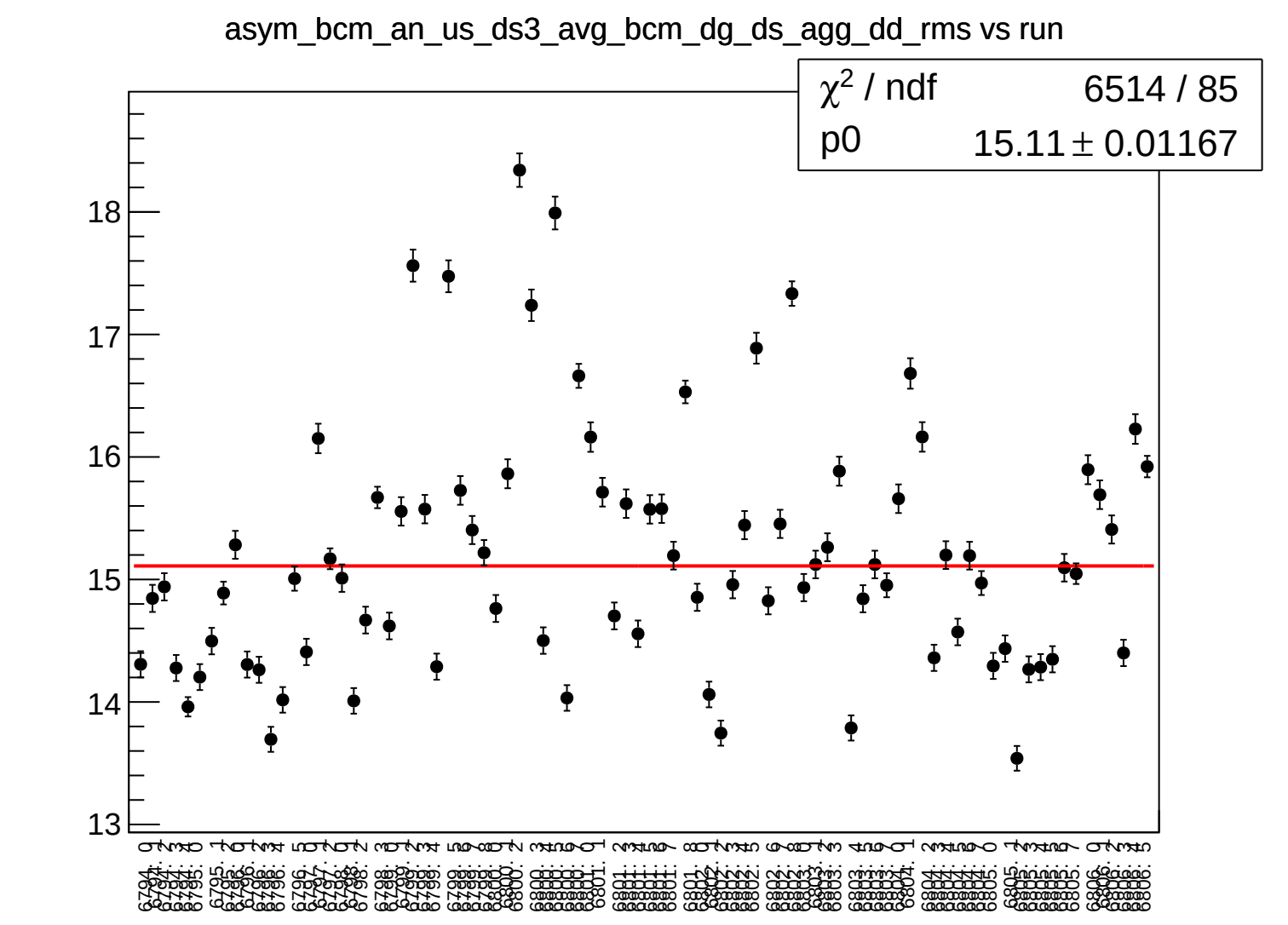

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6766 / 85
p0 15.29 ± 0.01181
19
18
17
16
15
14
13

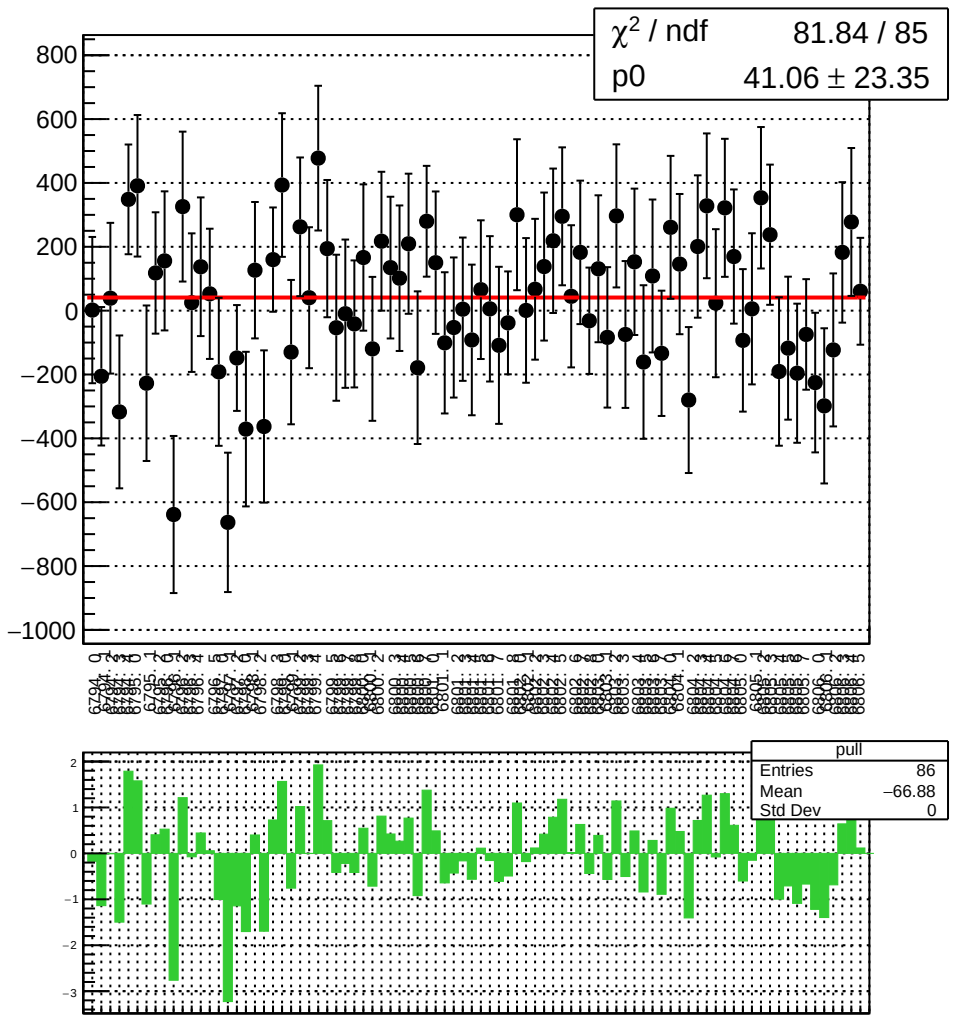

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.87 / 85
p0 46.97 ± 23.52
pull
Entries 86
Mean −55.44
Std Dev 0

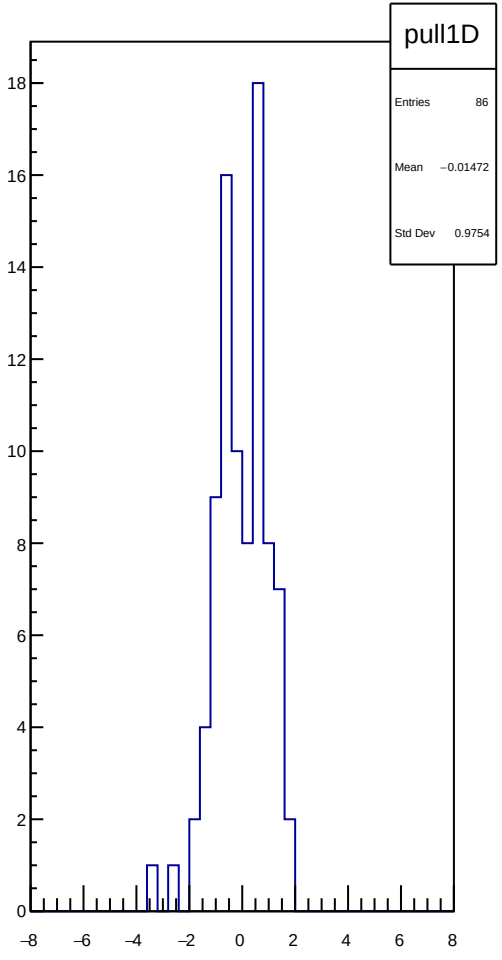

pull1D
Entries 86
Mean −0.01363
Std Dev 0.9756

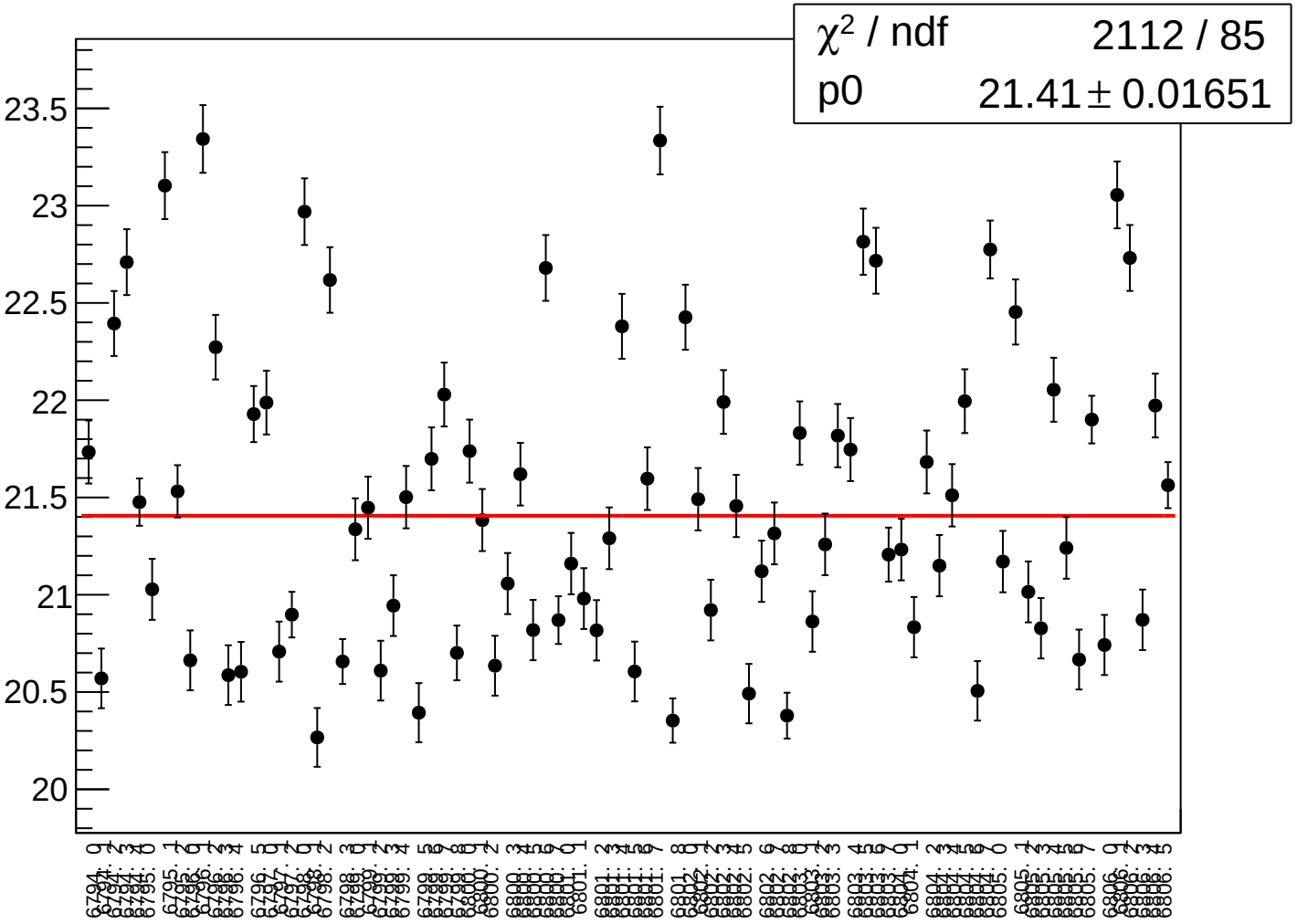

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2262 / 85
p0 21.56 ± 0.01663
24
23.5
23
22.5
22
21.5
21
20.5
20

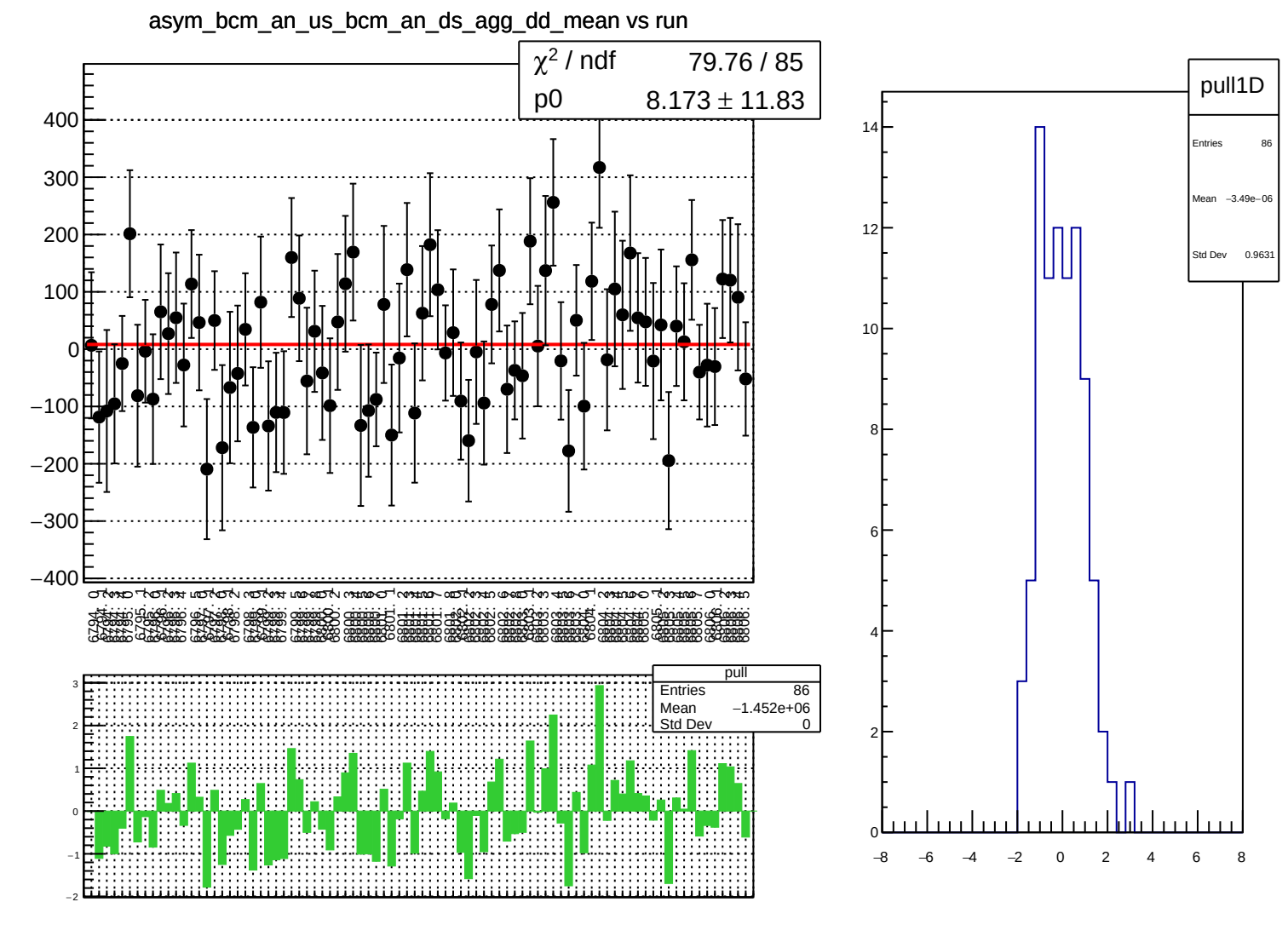

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 101.1 / 85
p0 16.83 ± 16.51
pull
Entries 86
Mean 29.91
Std Dev 0
pull1D
Entries 86
Mean −0.005017
Std Dev 1.084

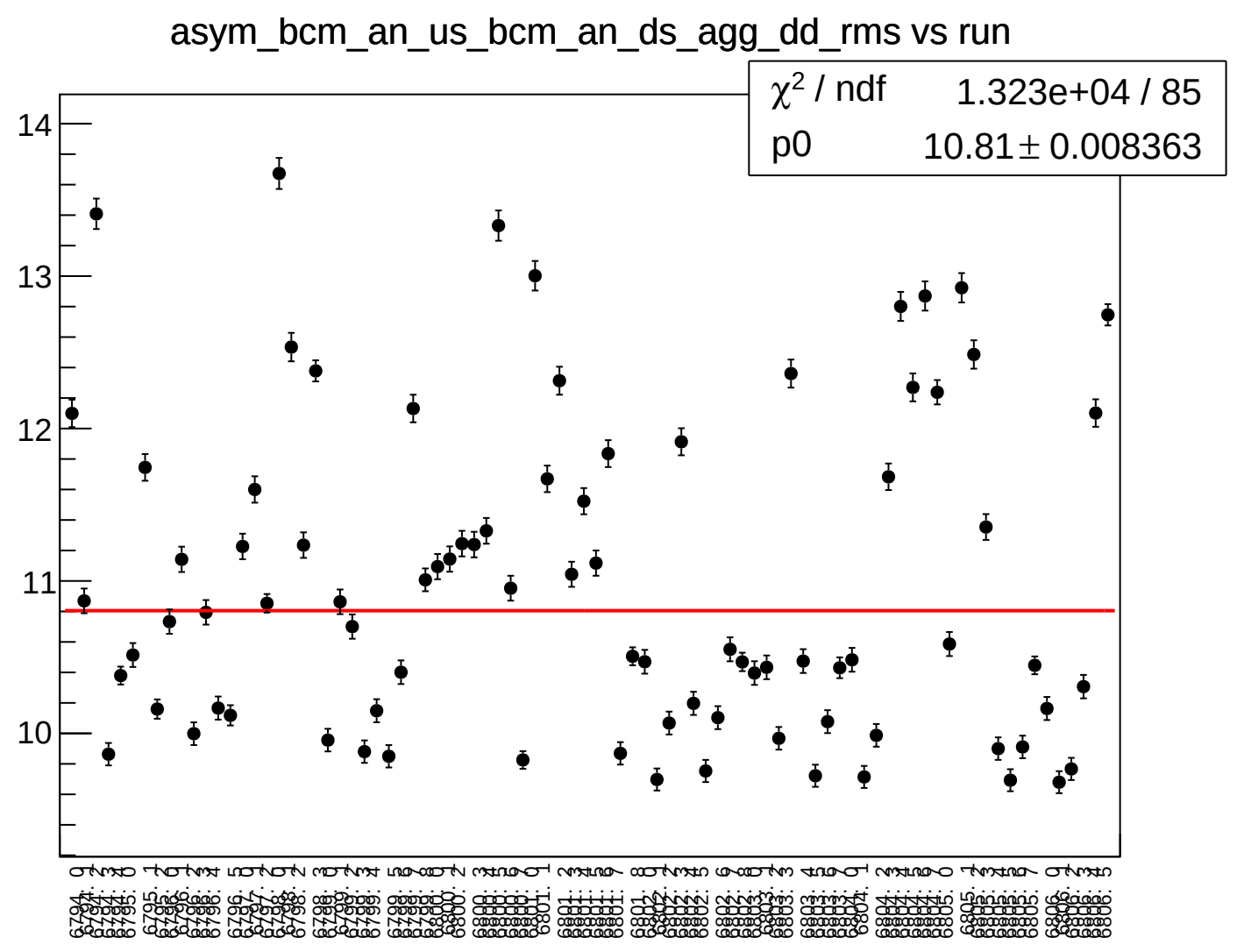

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6514 / 85
p0 15.11 ± 0.01167
18
17
16
15
14
13

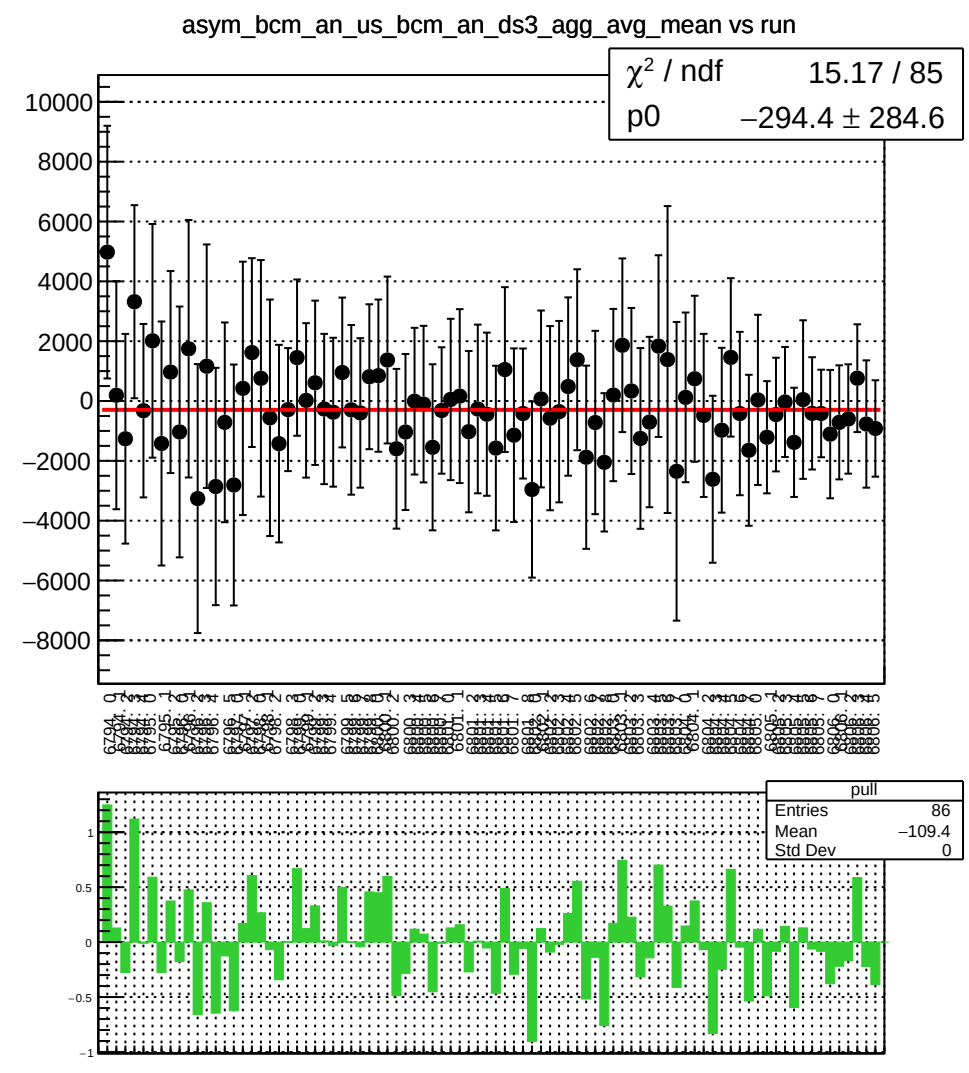

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 81.84 / 85
p0 41.06 ± 23.35
pull
Entries 86
Mean −66.88
Std Dev 0

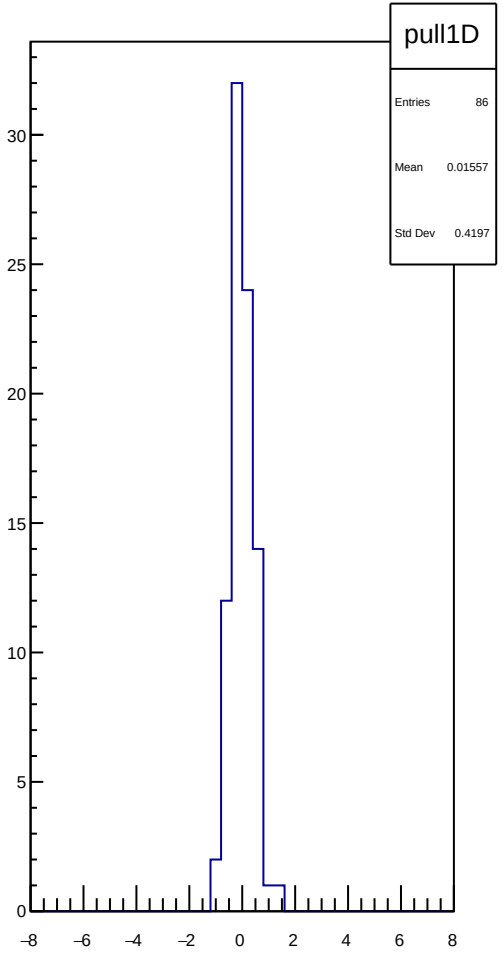

pull1D
Entries 86
Mean −0.01472
Std Dev 0.9754

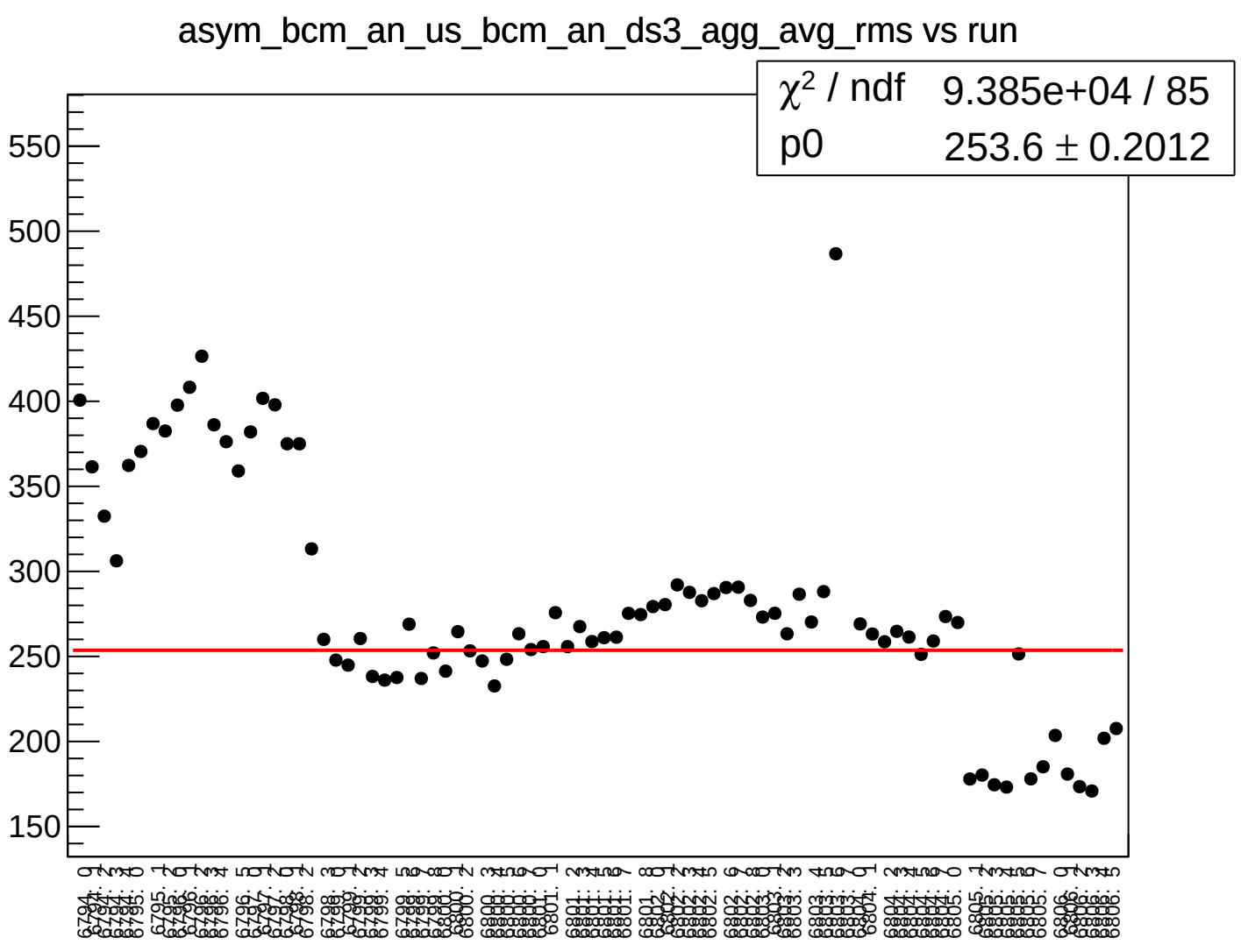

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2112 / 85
p0 21.41 ± 0.01651
23.5
23
22.5
22
21.5
21
20.5
20

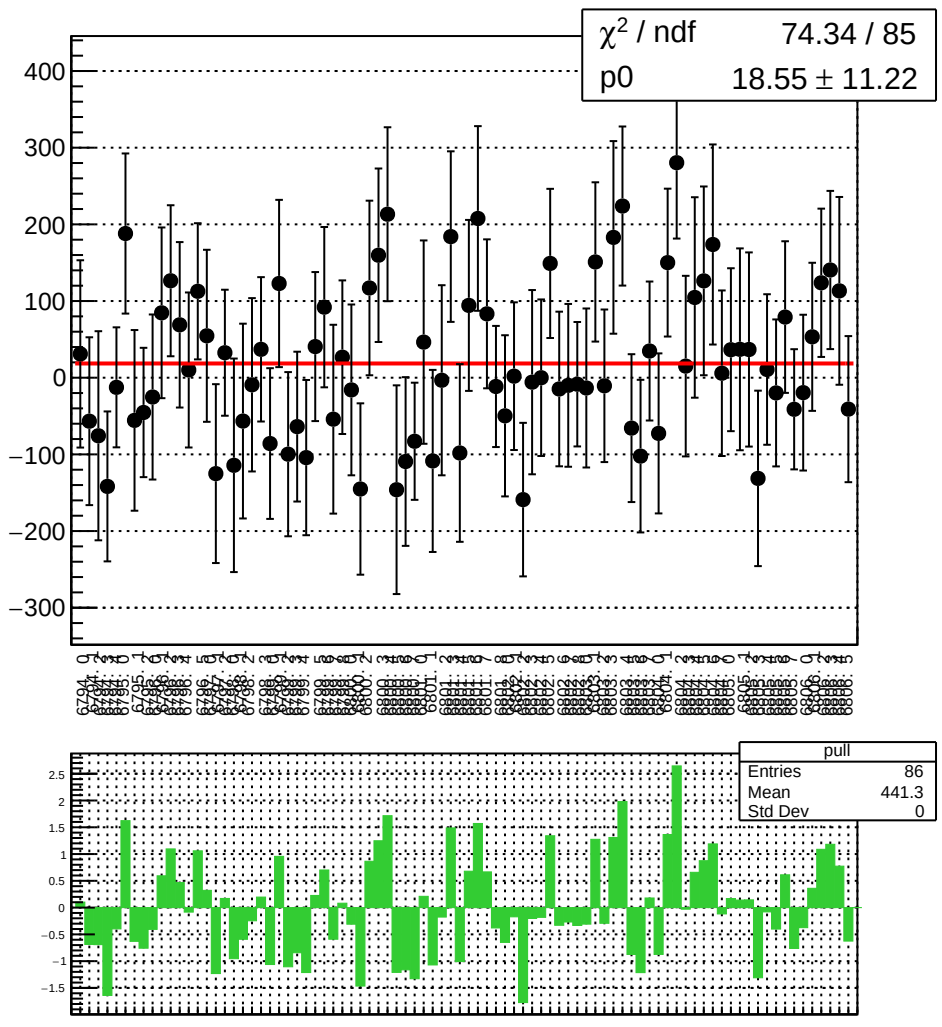

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.76 / 85
p0 8.173 ± 11.83
pull
Entries 86
Mean −1.452e+06
Std Dev 0
pull1D
Entries 86
Mean −3.49e−06
Std Dev 0.9631

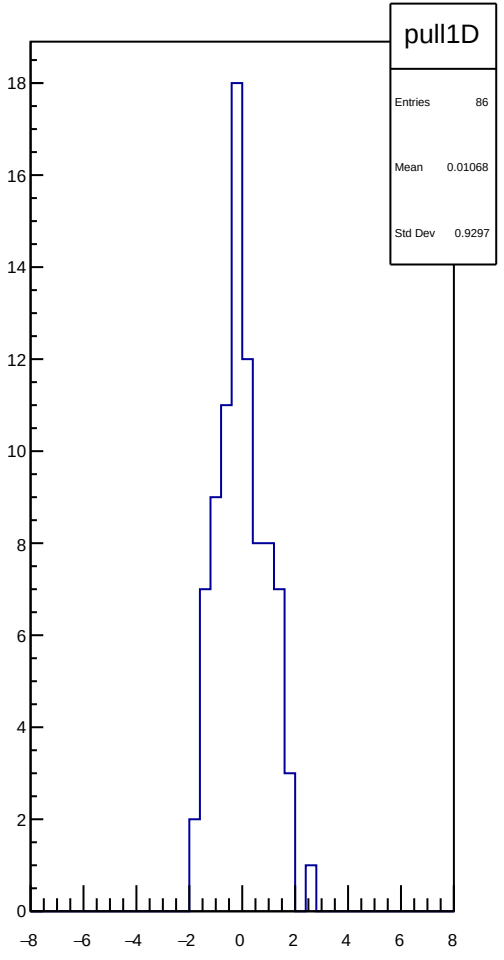

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.323e+04 / 85
p0 10.81 ± 0.008363
14
13
12
11
10

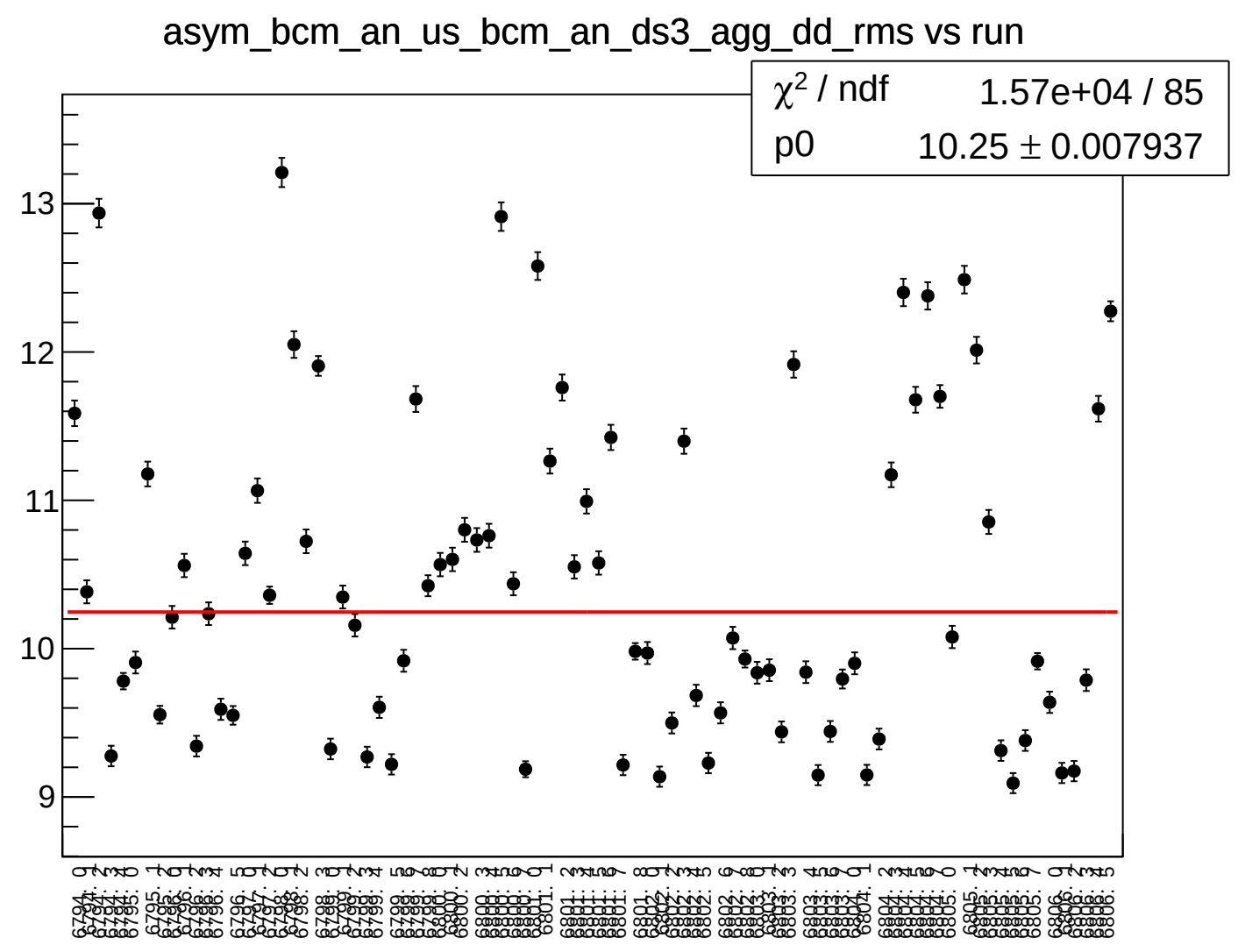

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.17 / 85
p0 −294.4 ± 284.6
pull
Entries 86
Mean −109.4
Std Dev 0

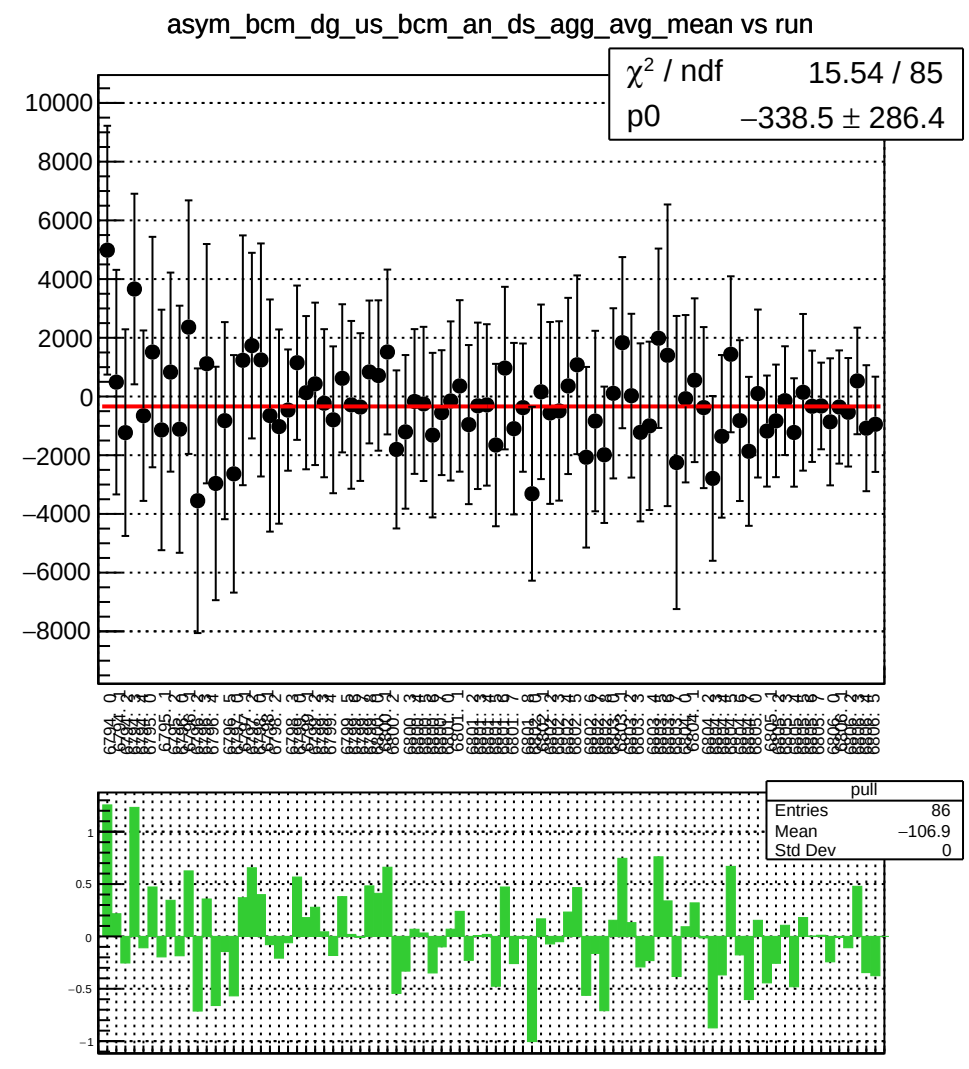

pull1D
Entries 86
Mean 0.01557
Std Dev 0.4197

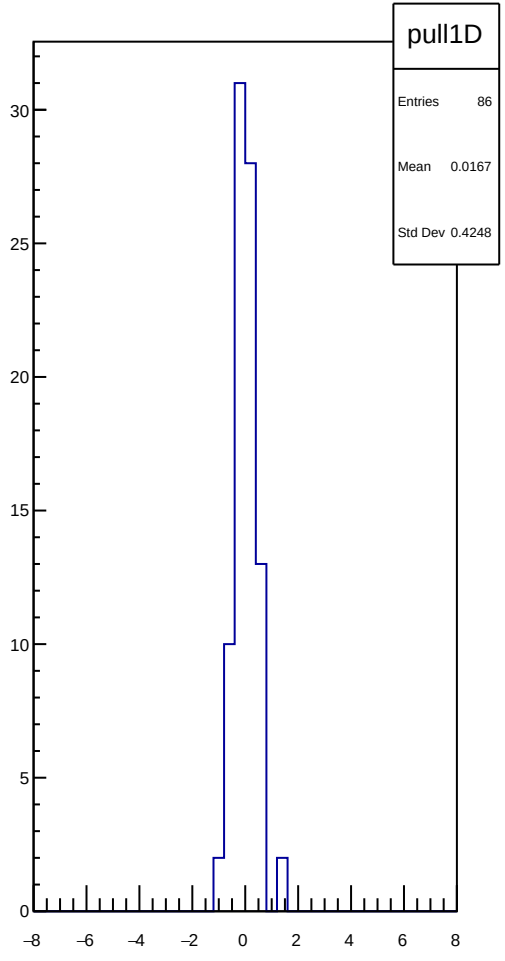

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 9.385e+04 / 85
p0 253.6 ± 0.2012
550
500
450
400
350
300
250
200
150

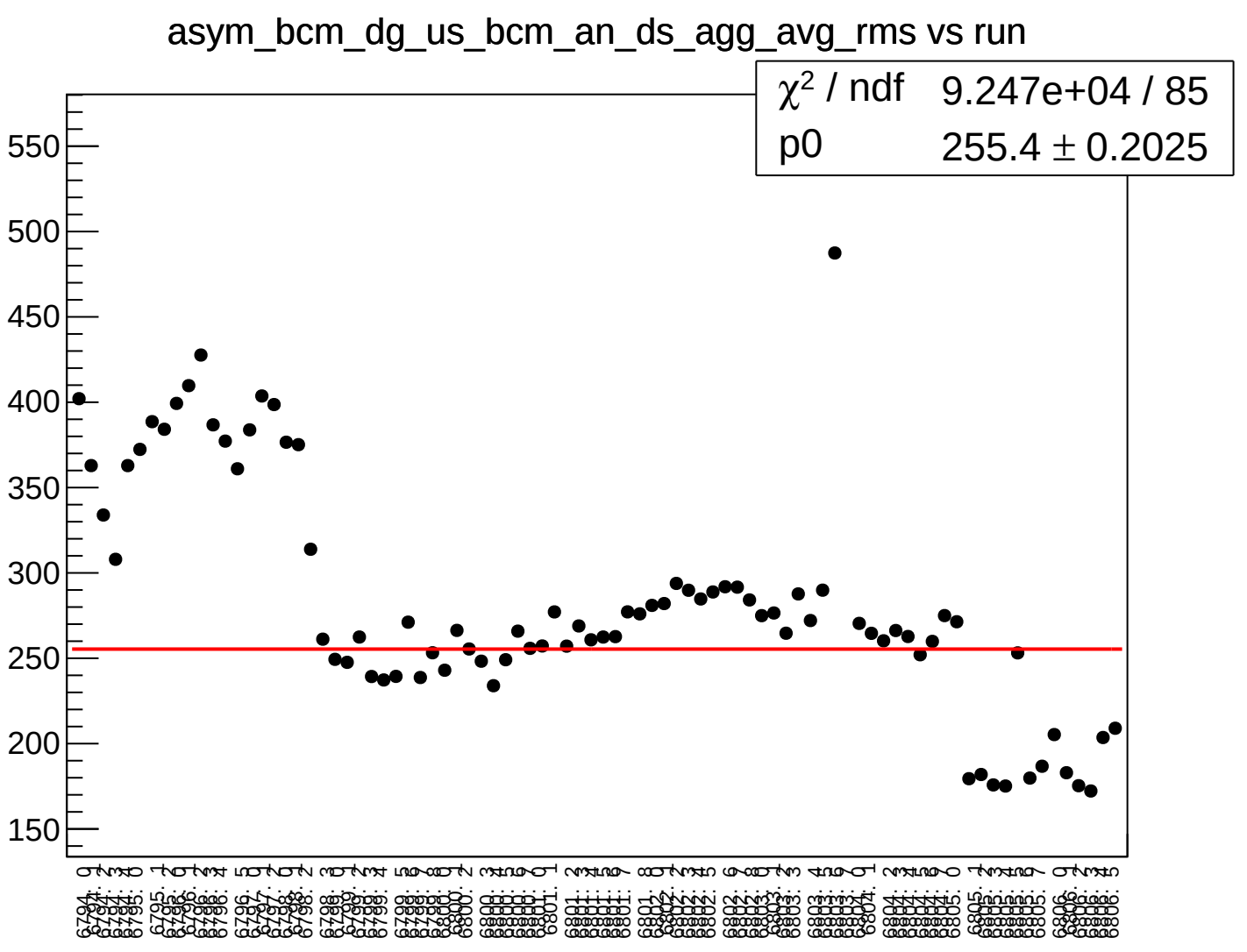

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 74.34 / 85
p0 18.55 ± 11.22
pull
Entries 86
Mean 441.3
Std Dev 0

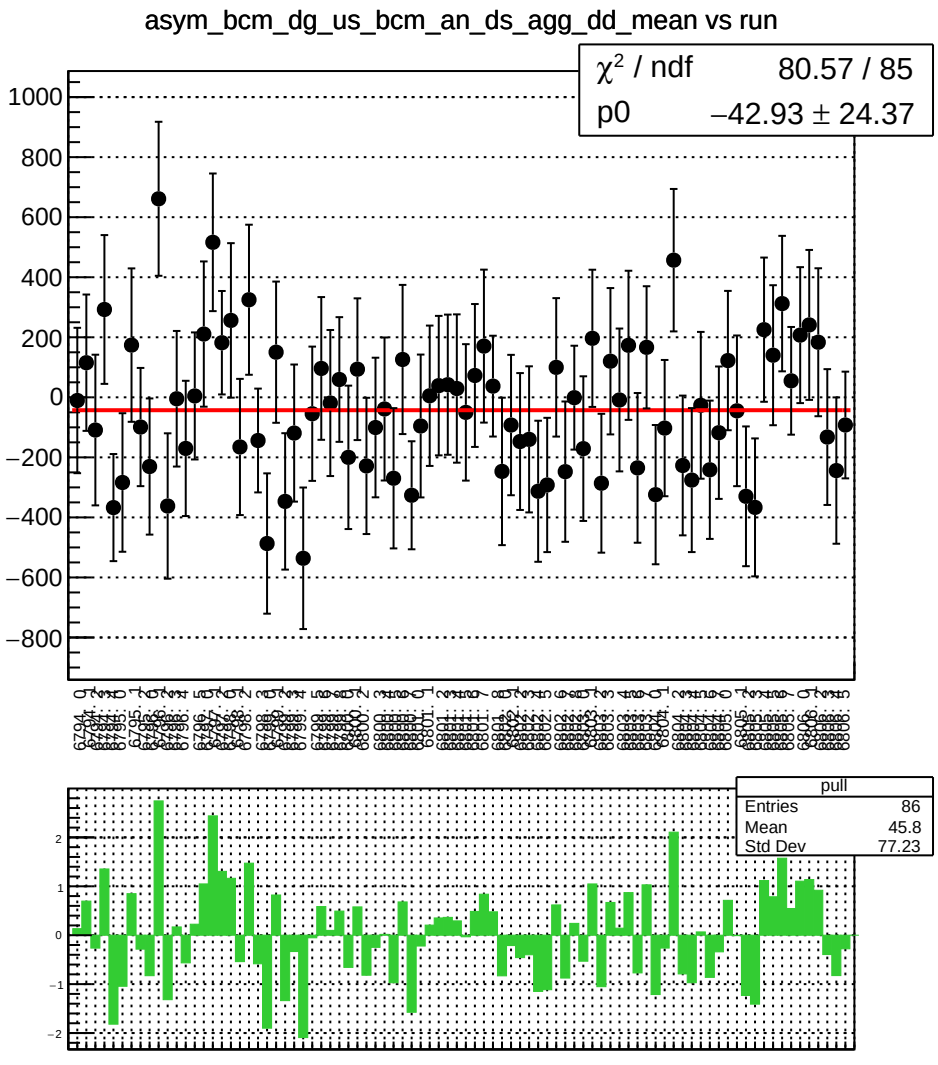

pull1D
Entries 86
Mean 0.01068
Std Dev 0.9297

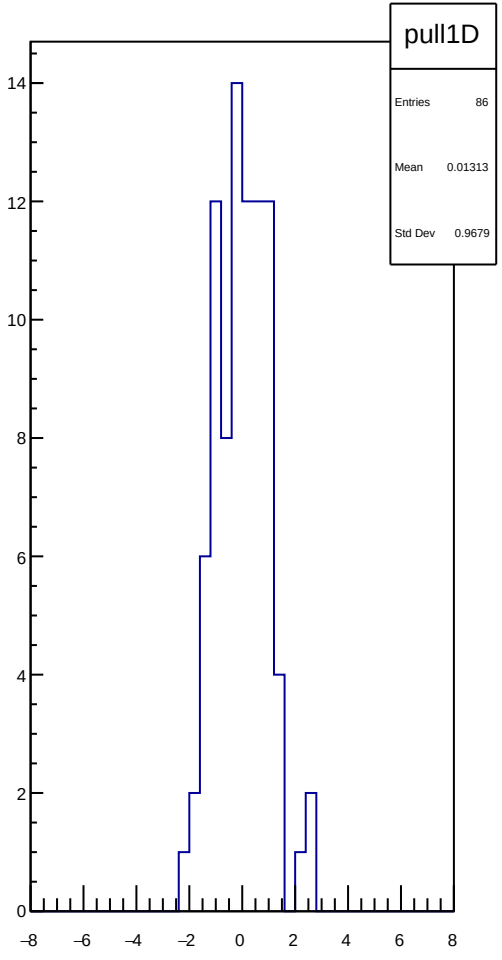

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.57e+04 / 85
p0 10.25 ± 0.007937
13
12
11
10
9

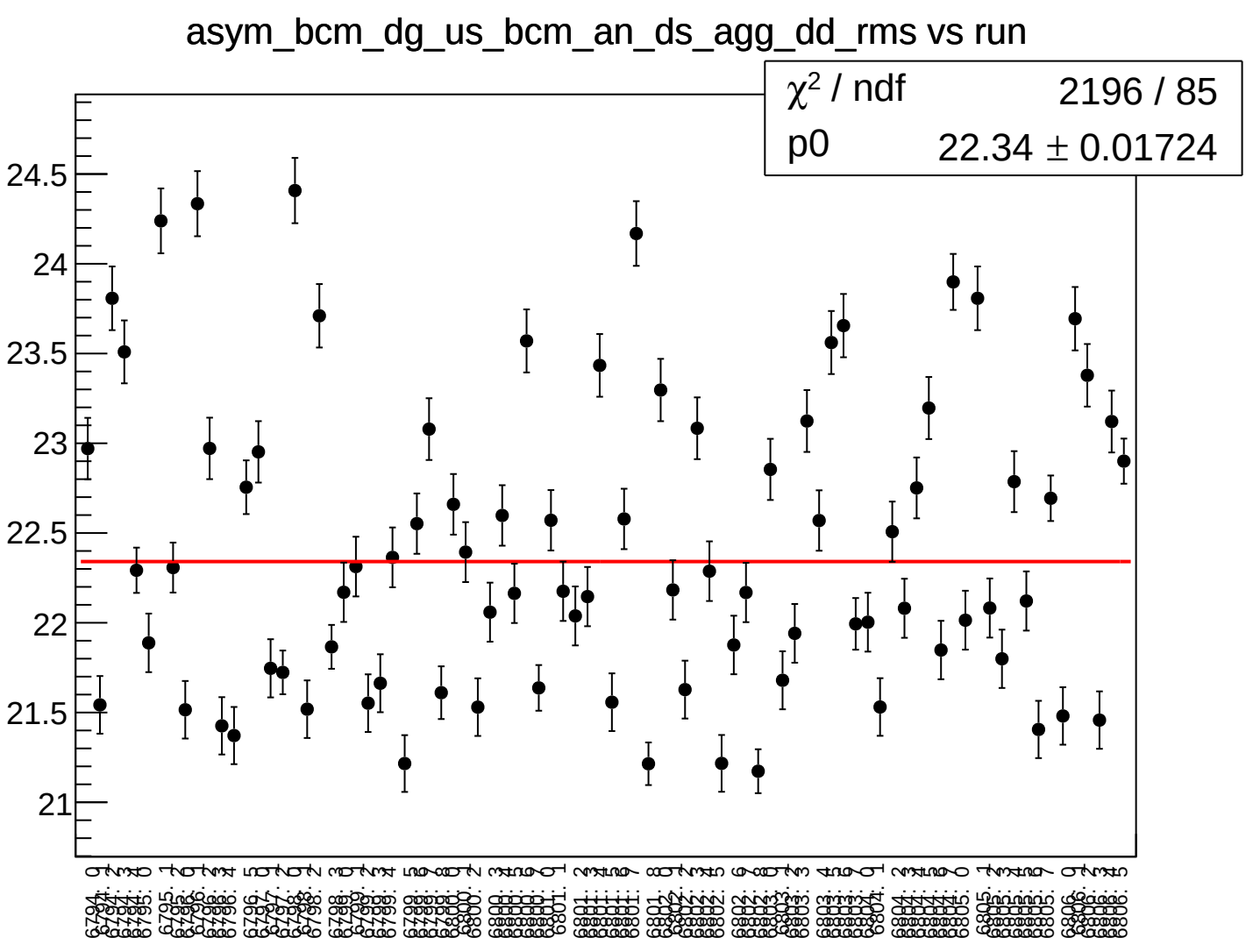

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.54 / 85
p0 −338.5 ± 286.4
pull
Entries 86
Mean −106.9
Std Dev 0

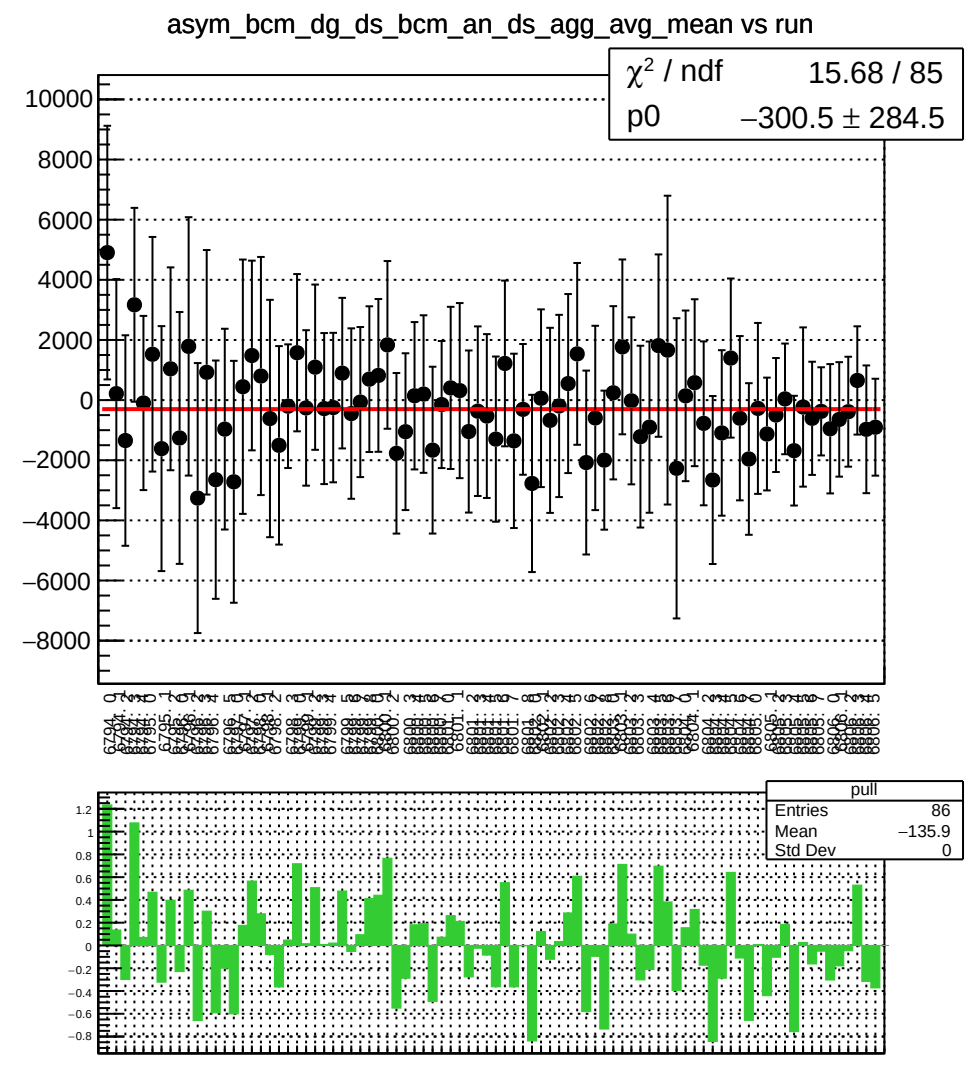

pull1D
Entries 86
Mean 0.0167
Std Dev 0.4248

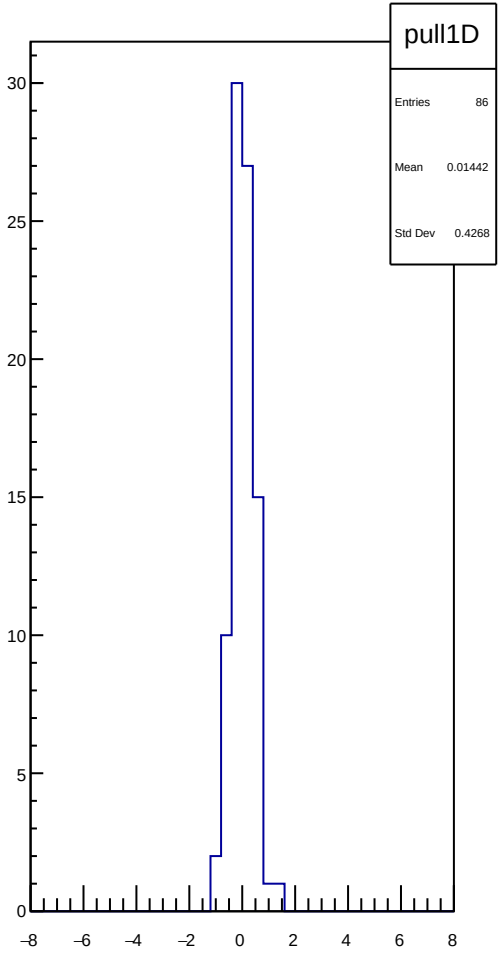

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.247e+04 / 85
p0 255.4 ± 0.2025
550
500
450
400
350
300
250
200
150

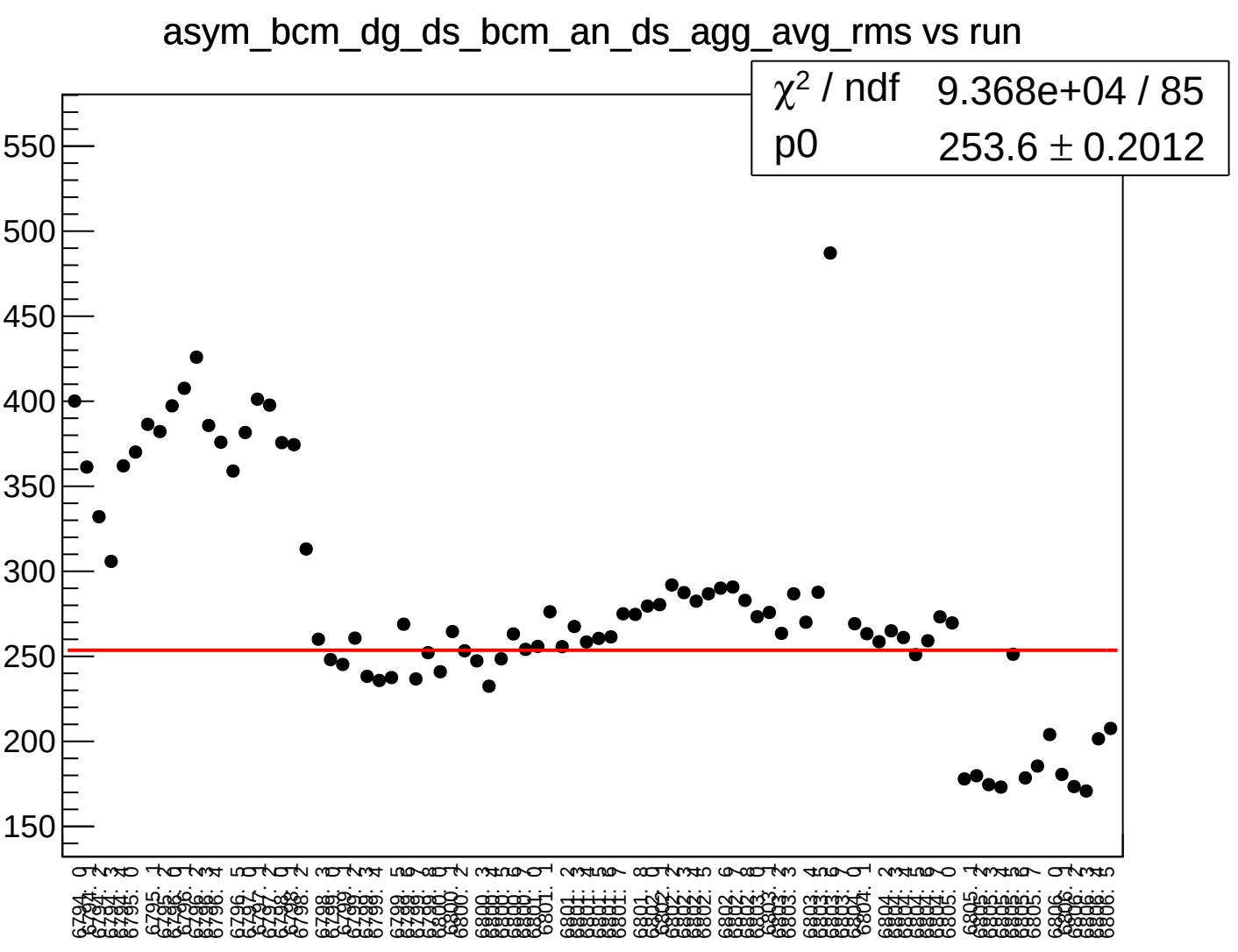

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 80.57 / 85
p0 −42.93 ± 24.37
pull
Entries 86
Mean 45.8
Std Dev 77.23

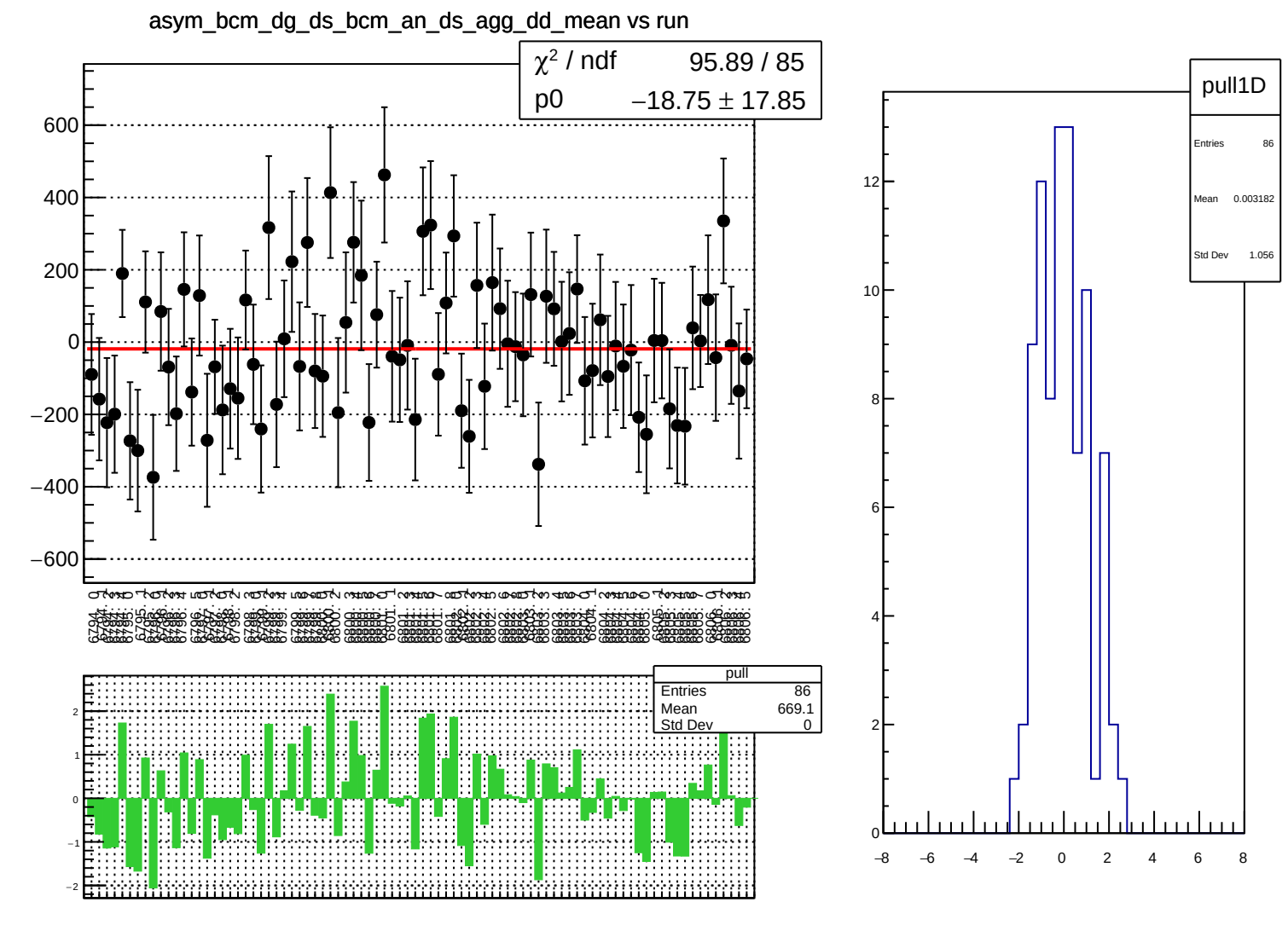

pull1D
Entries 86
Mean 0.01313
Std Dev 0.9679

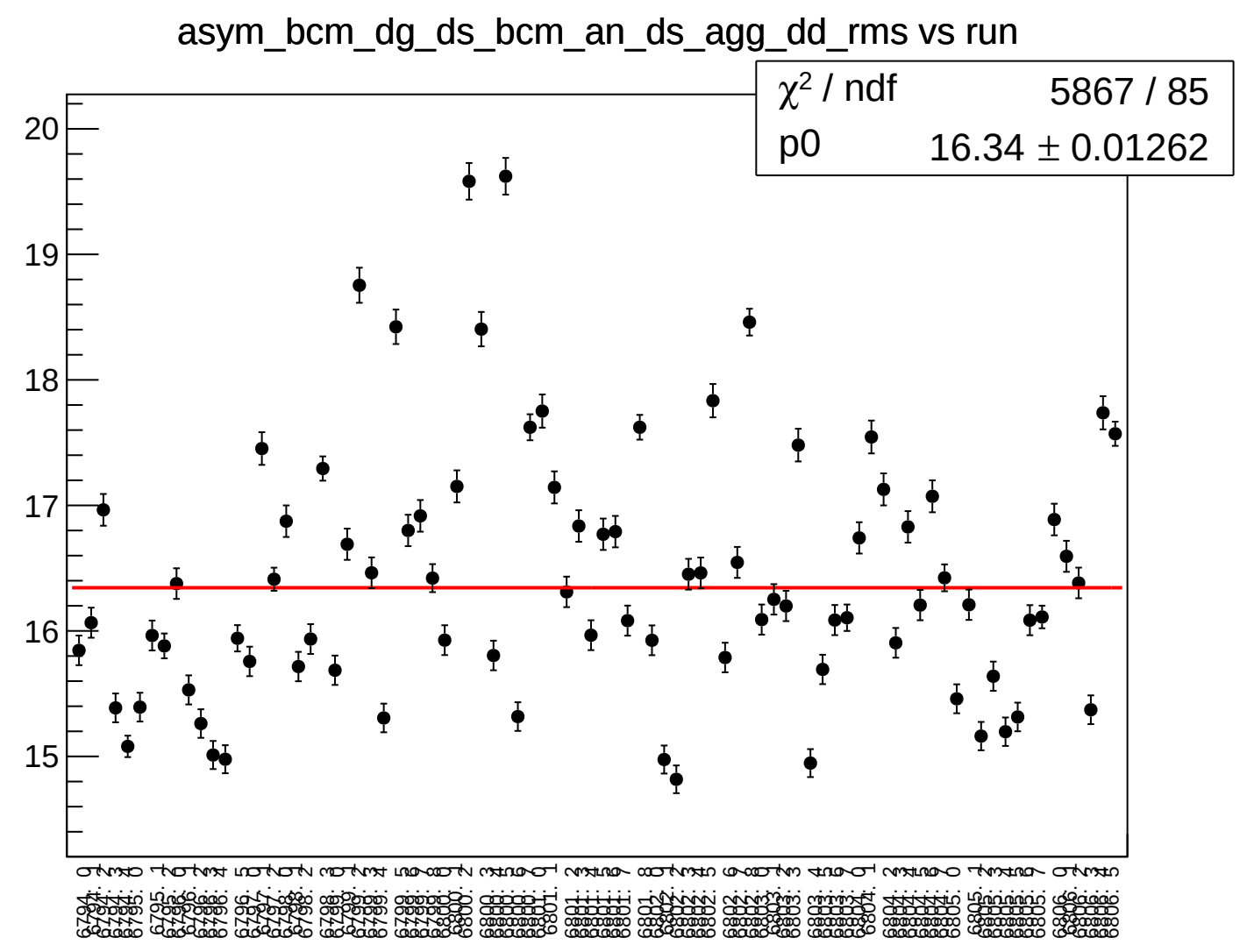

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2196 / 85
p0 22.34 ± 0.01724
24.5
24
23.5
23
22.5
22
21.5
21

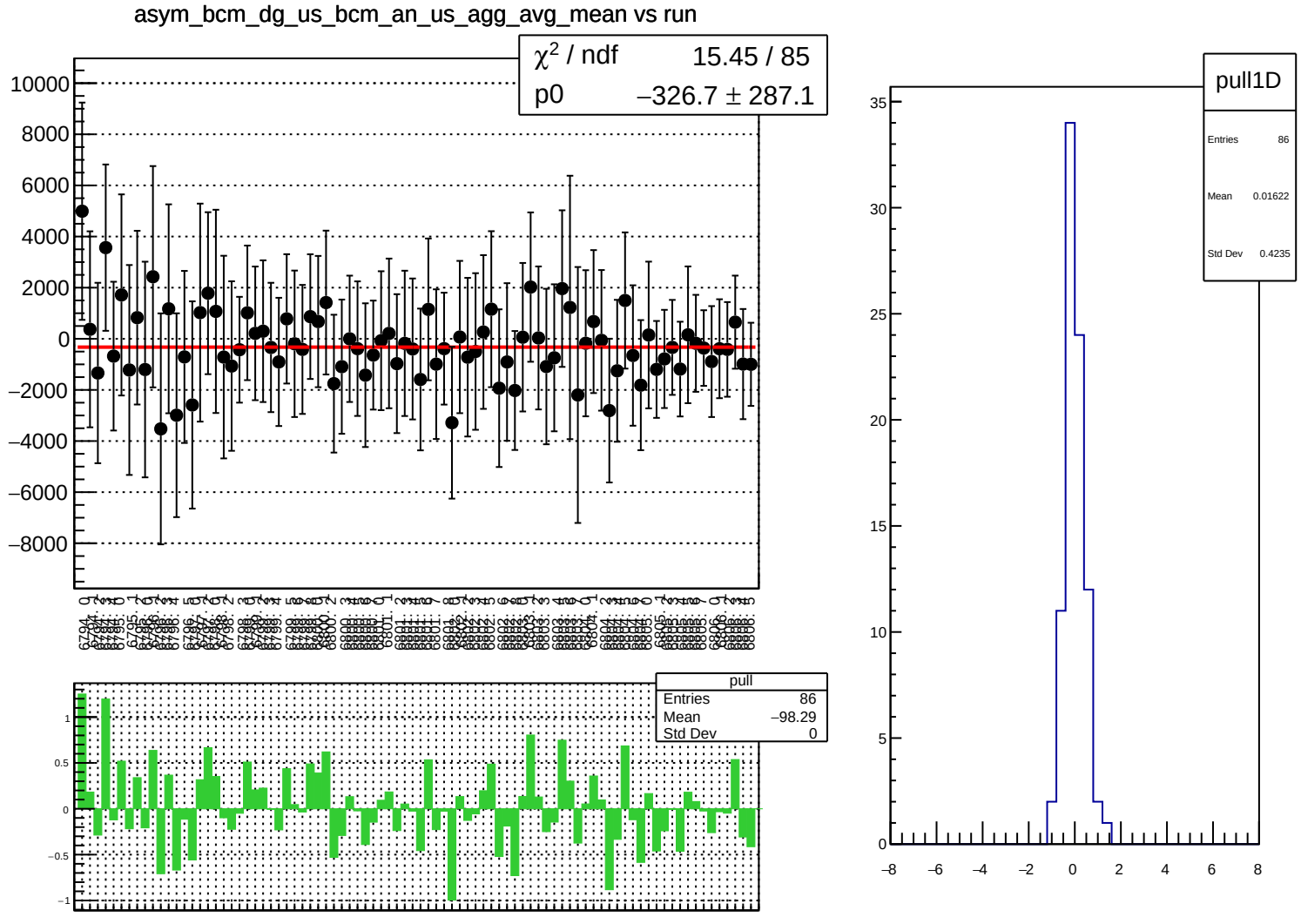

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.68 / 85
p0 −300.5 ± 284.5
pull
Entries 86
Mean −135.9
Std Dev 0

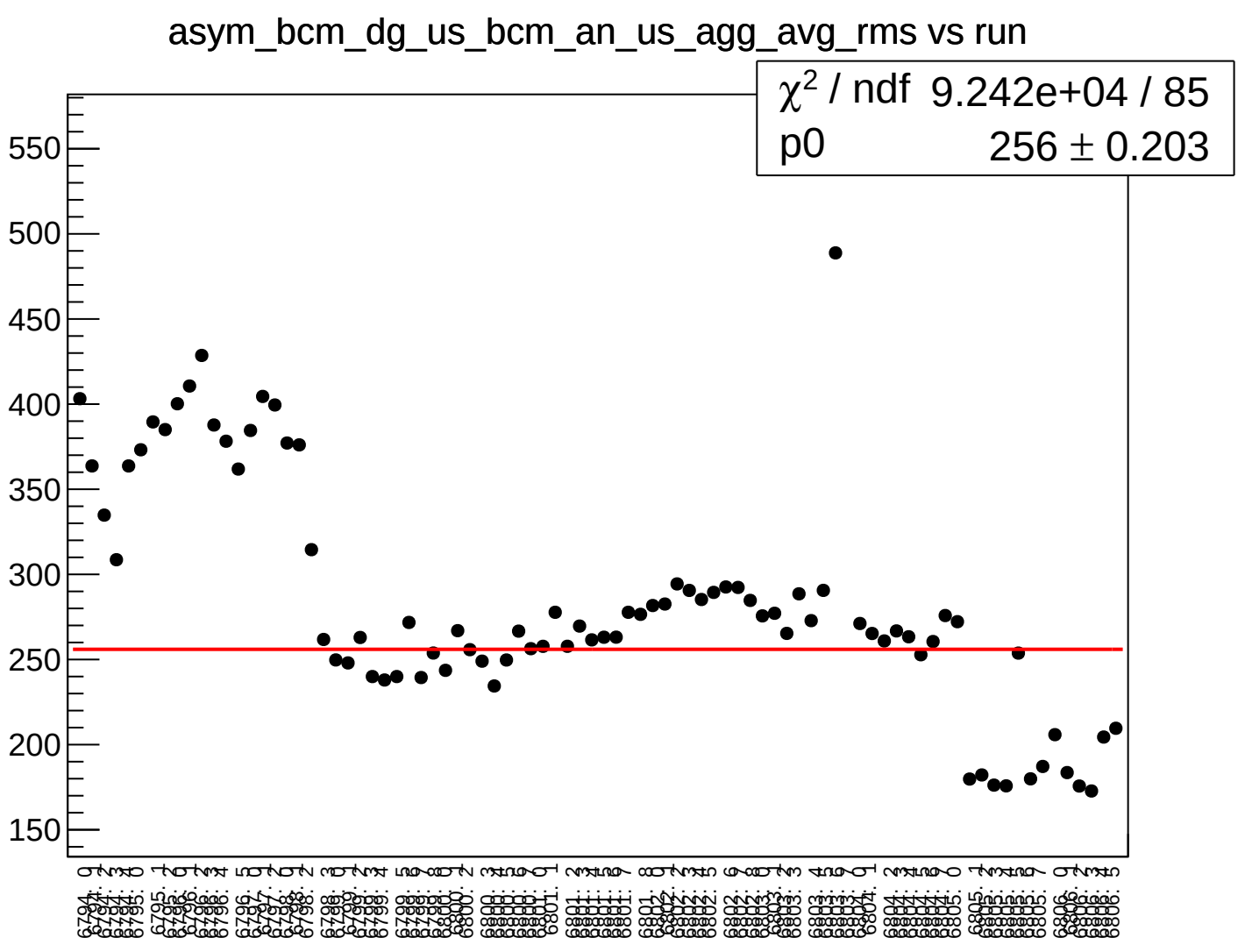

pull1D
Entries 86
Mean 0.01442
Std Dev 0.4268

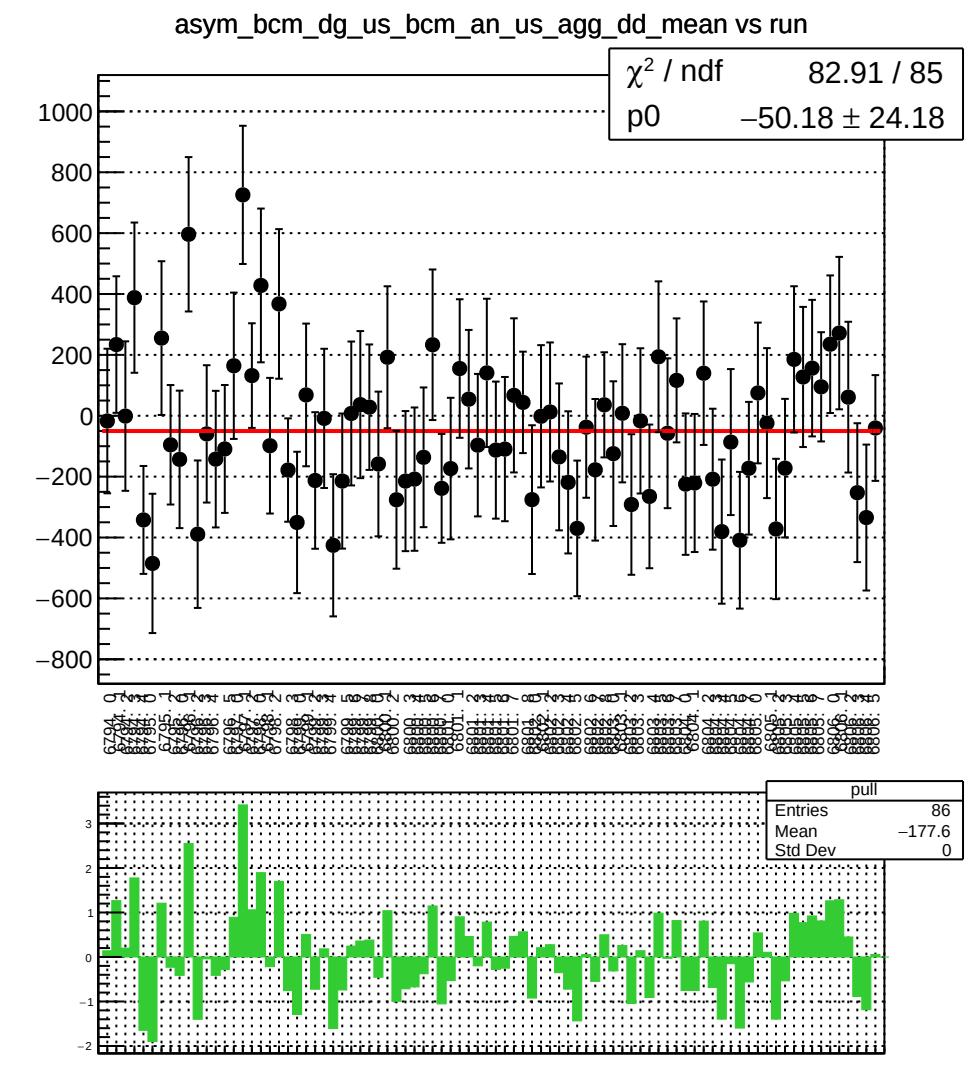

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.368e+04 / 85
p0 253.6 ± 0.2012
550
500
450
400
350
300
250
200
150

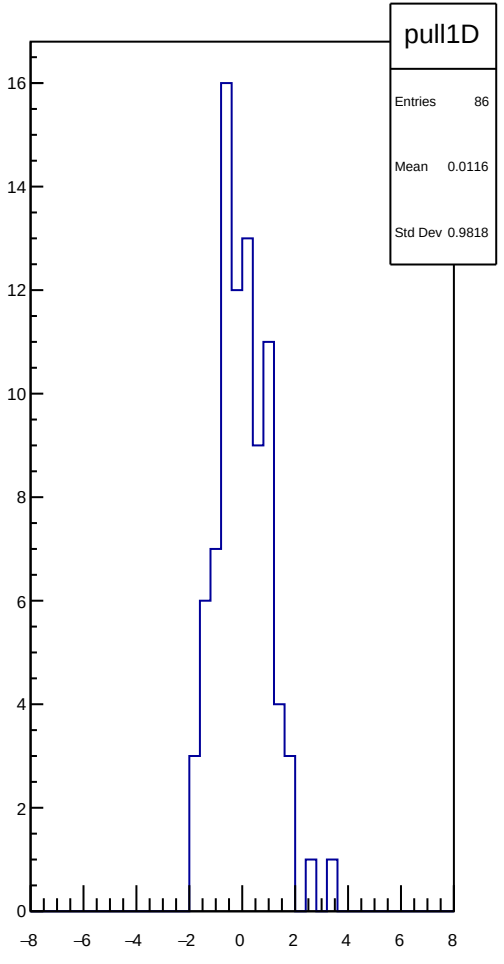

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 95.89 / 85
p0 −18.75 ± 17.85
pull
Entries 86
Mean 669.1
Std Dev 0
pull1D
Entries 86
Mean 0.003182
Std Dev 1.056

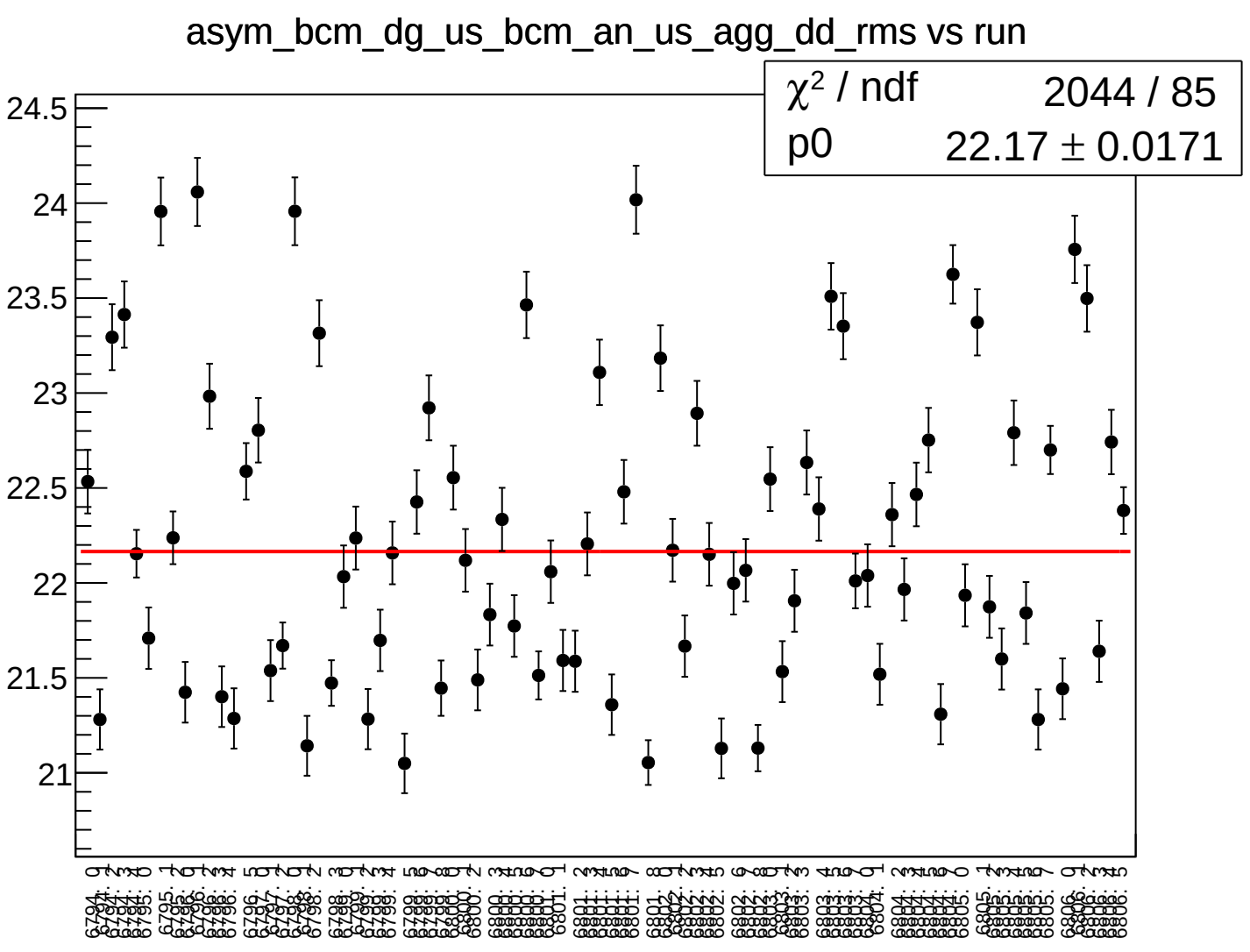

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5867 / 85
p0 16.34 ± 0.01262
20
19
18
17
16
15

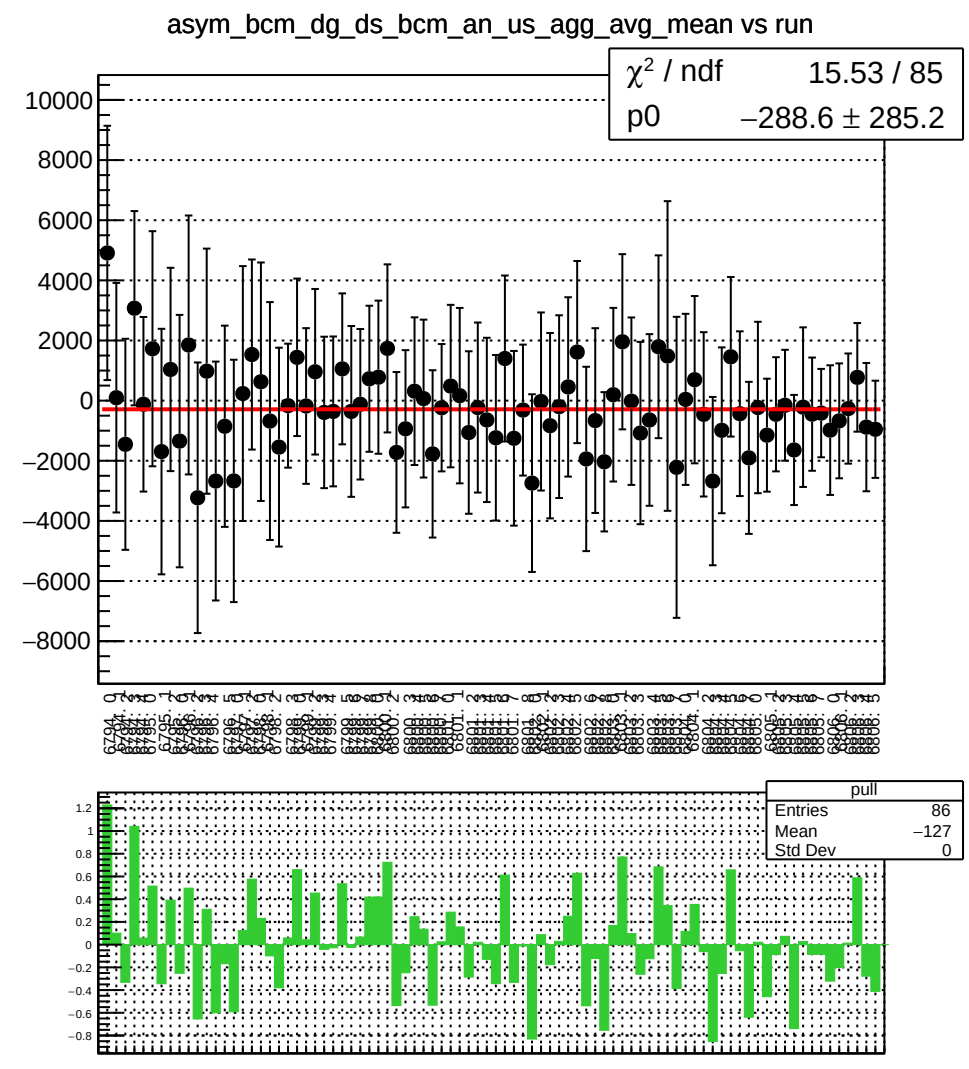

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.45 / 85
p0 −326.7 ± 287.1
pull
Entries 86
Mean −98.29
Std Dev 0
pull1D
Entries 86
Mean 0.01622
Std Dev 0.4235

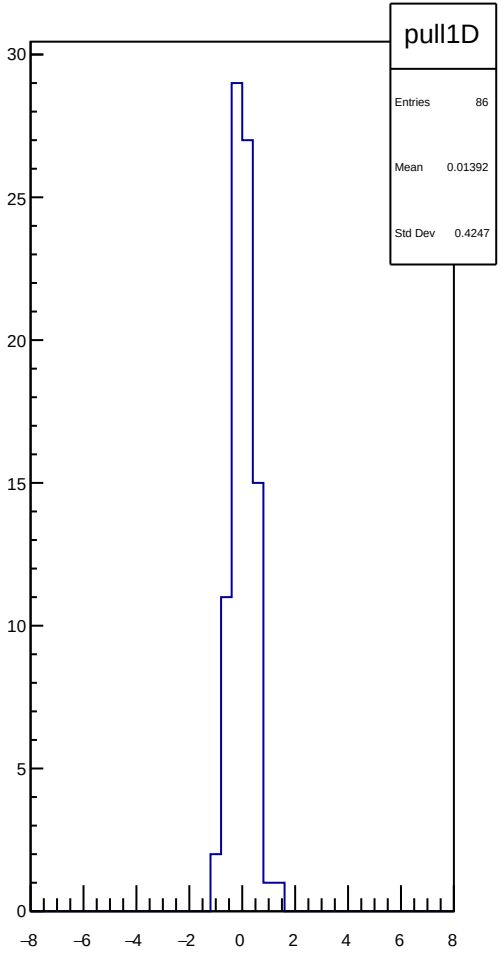

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.242e+04 / 85
p0 256 ± 0.203
550
500
450
400
350
300
250
200
150

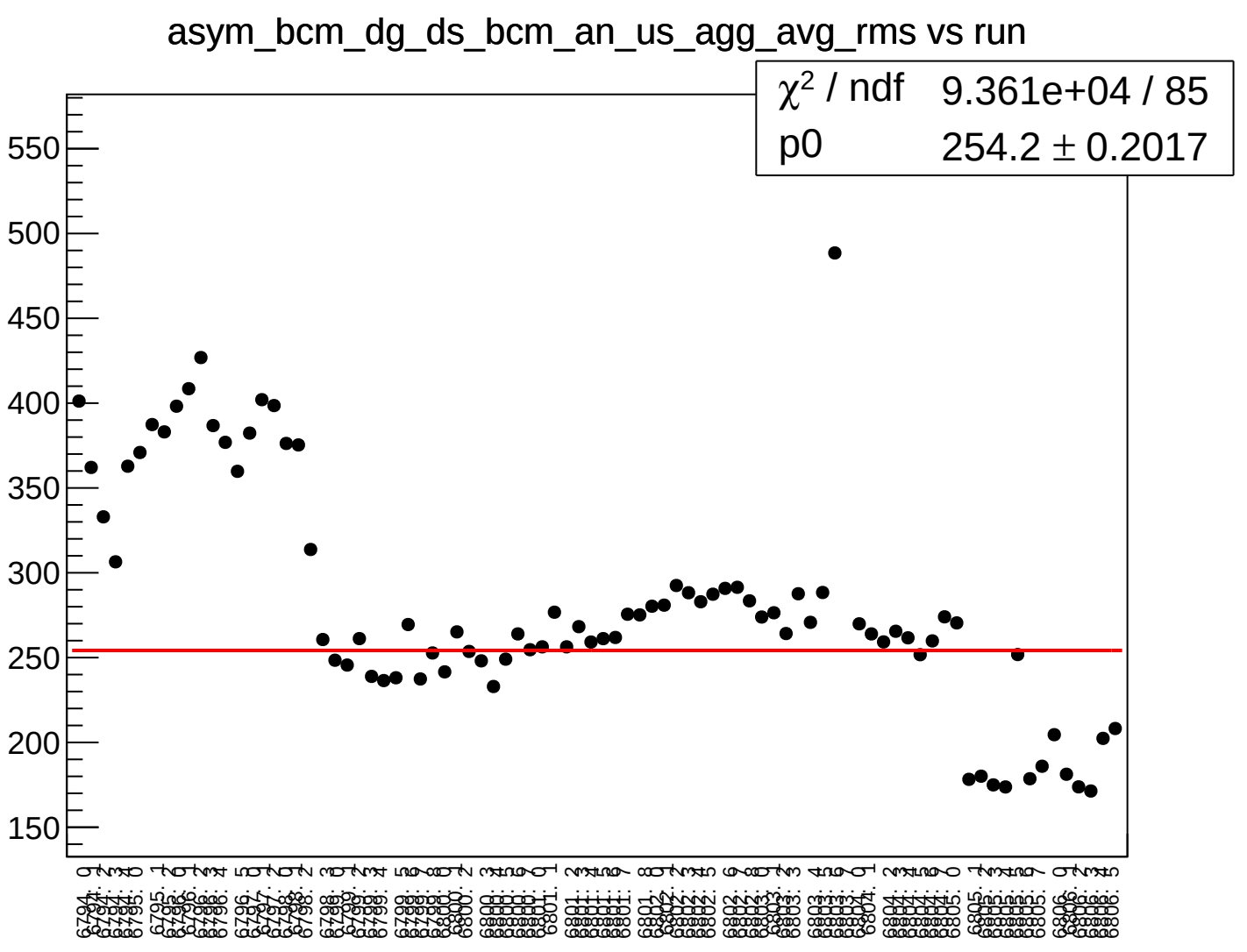

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.91 / 85
p0 −50.18 ± 24.18
pull
Entries 86
Mean −177.6
Std Dev 0

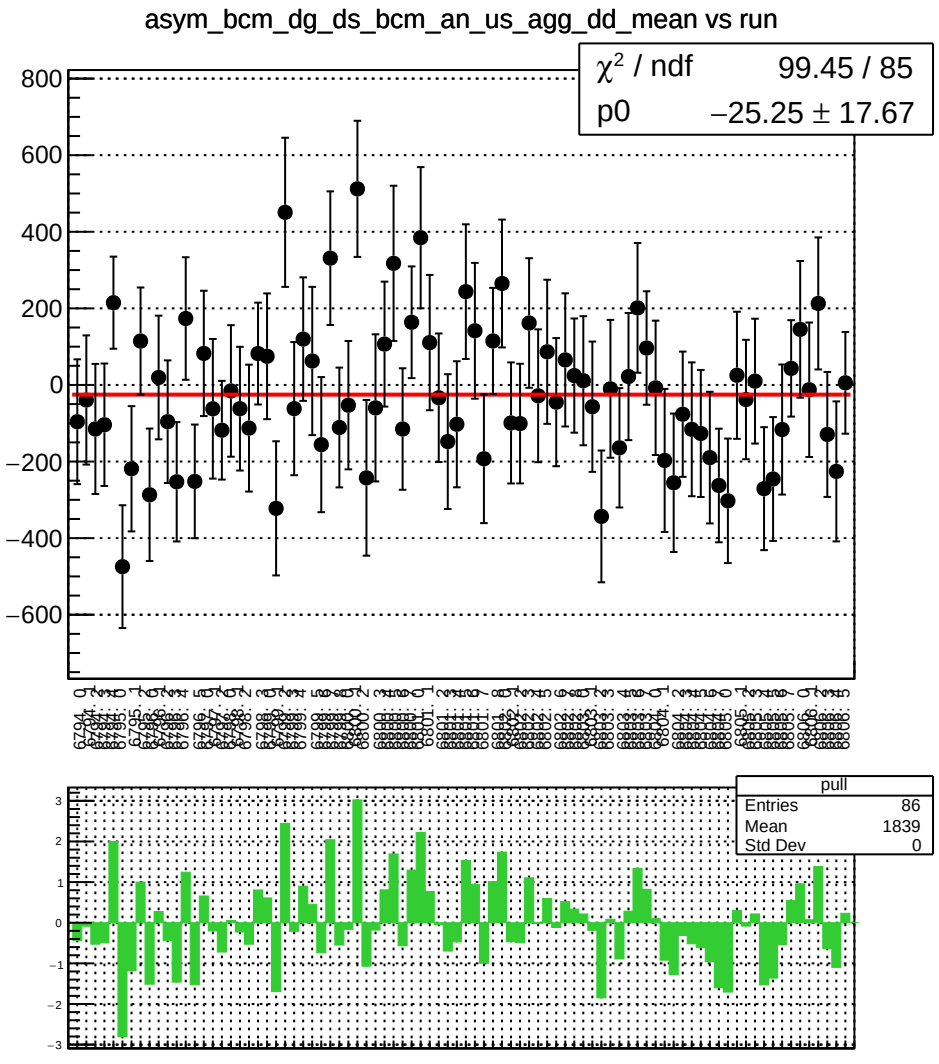

pull1D
Entries 86
Mean 0.0116
Std Dev 0.9818

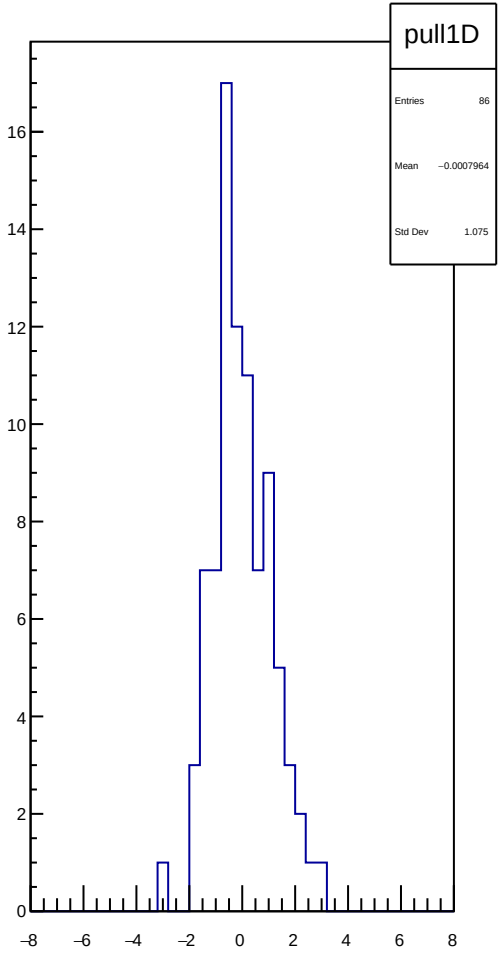

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2044 / 85
p0 22.17 ± 0.0171
24.5
24
23.5
23
22.5
22
21.5
21

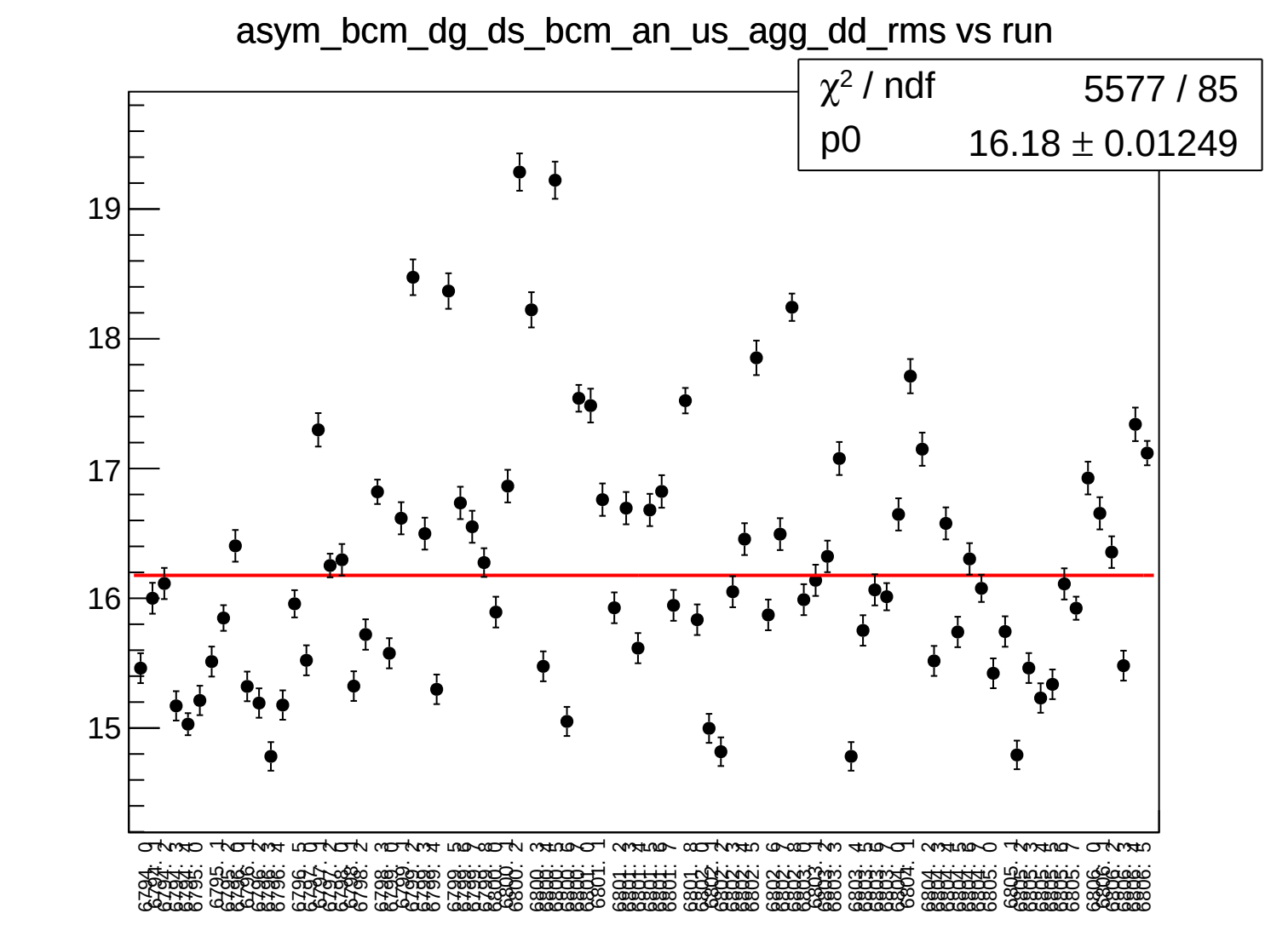

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.53 / 85
p0 −288.6 ± 285.2
pull
Entries 86
Mean −127
Std Dev 0

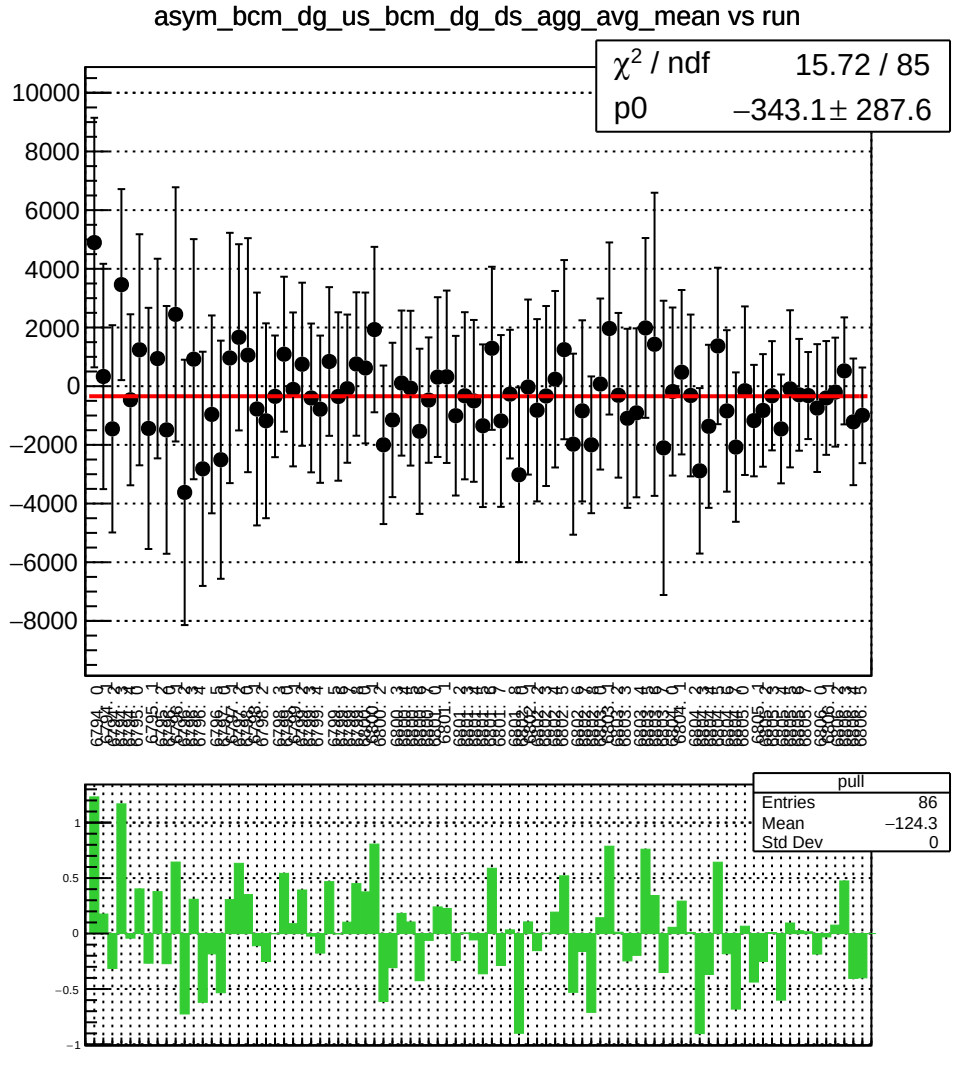

pull1D
Entries 86
Mean 0.01392
Std Dev 0.4247

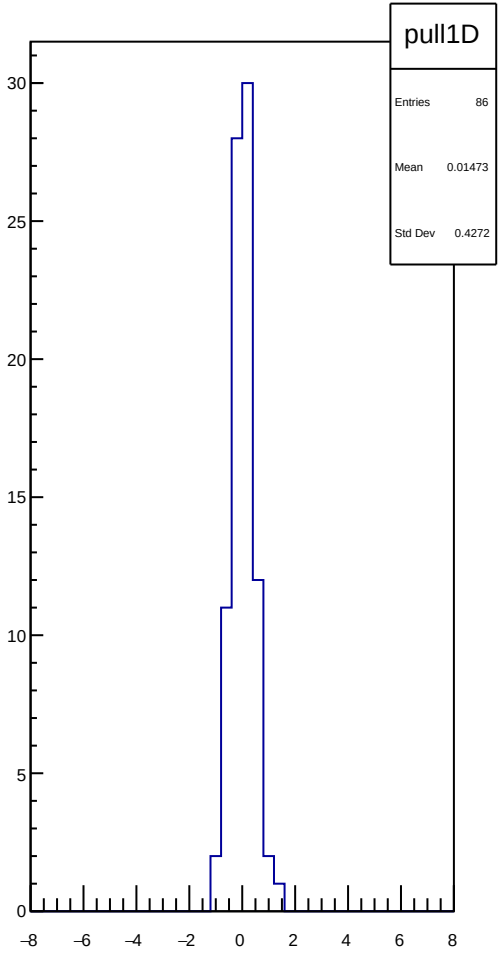

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.361e+04 / 85
p0 254.2 ± 0.2017
550
500
450
400
350
300
250
200
150

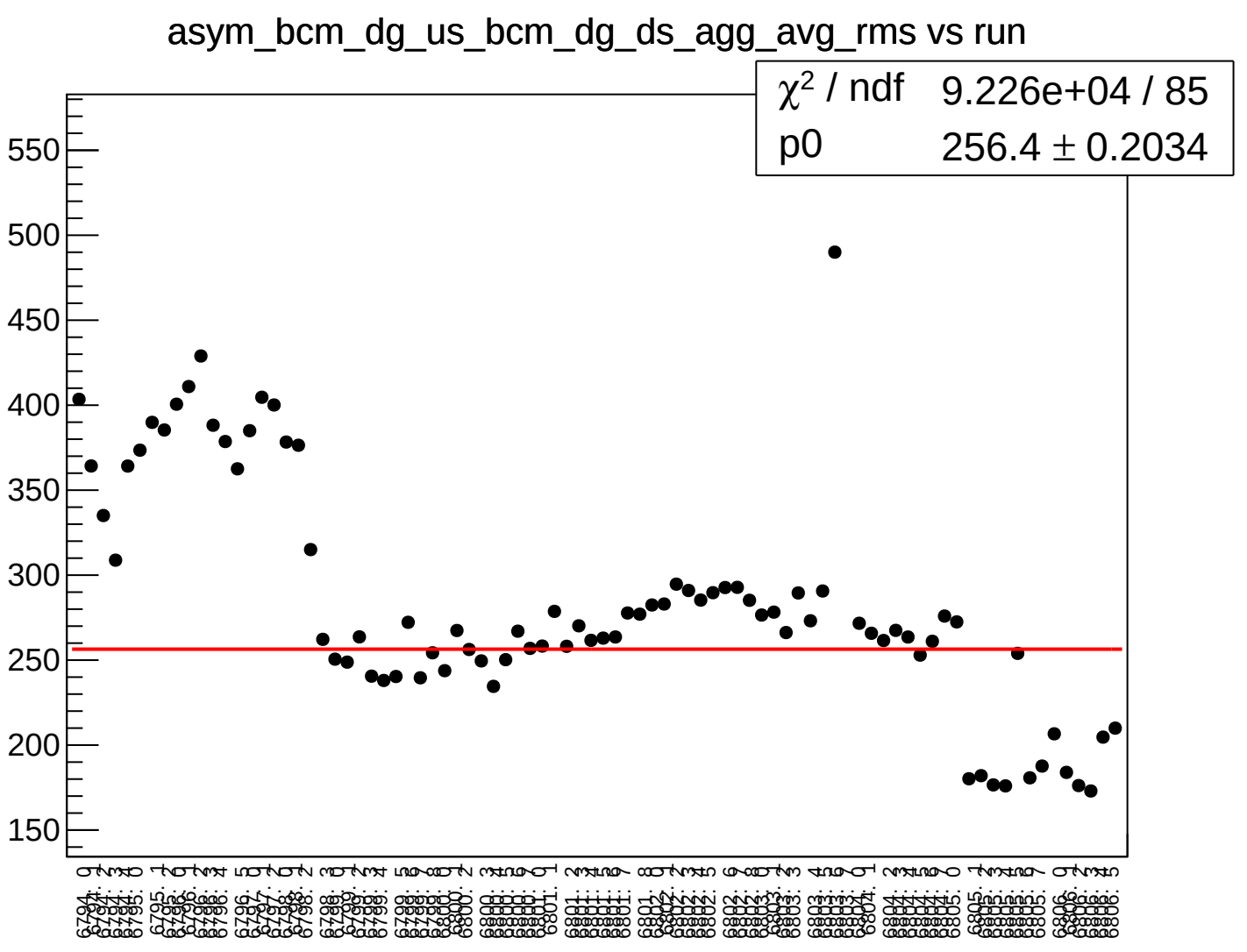

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 99.45 / 85
p0 −25.25 ± 17.67
pull
Entries 86
Mean 1839
Std Dev 0

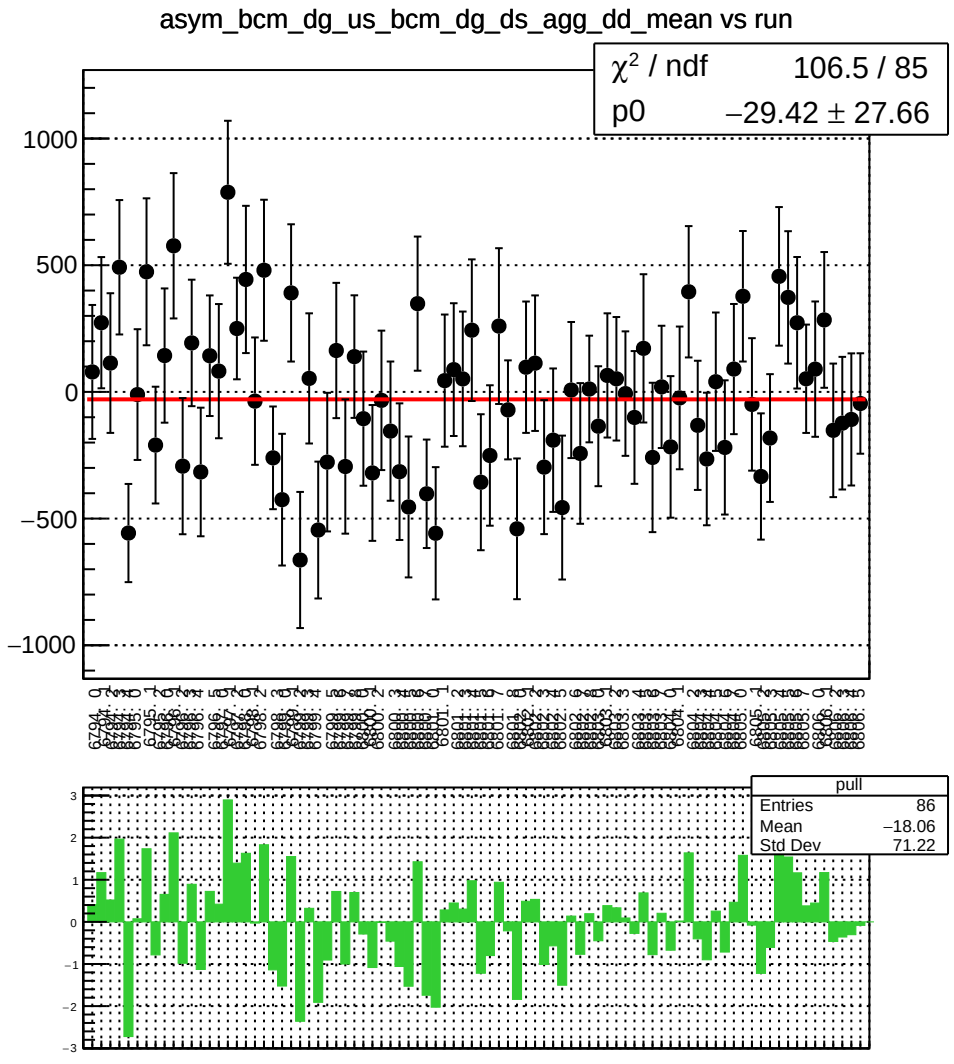

pull1D
Entries 86
Mean −0.0007964
Std Dev 1.075

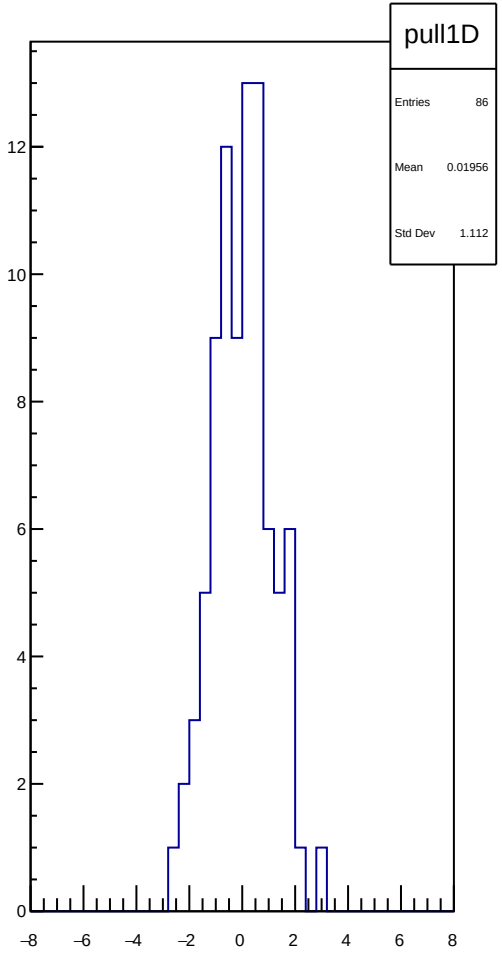

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 5577 / 85
p0 16.18 ± 0.01249
19
18
17
16
15

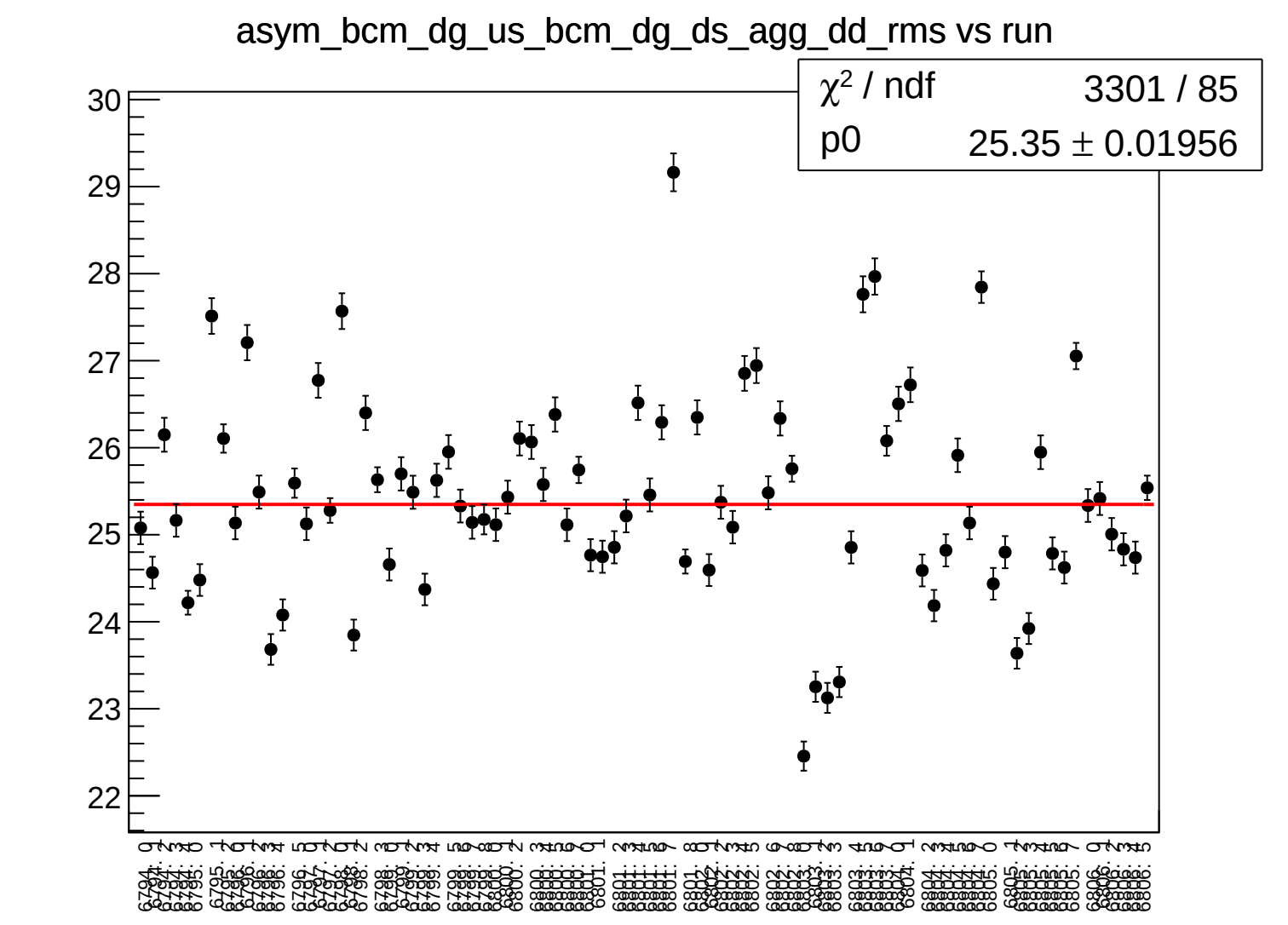

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.72 / 85
p0 −343.1± 287.6
pull
Entries 86
Mean −124.3
Std Dev 0

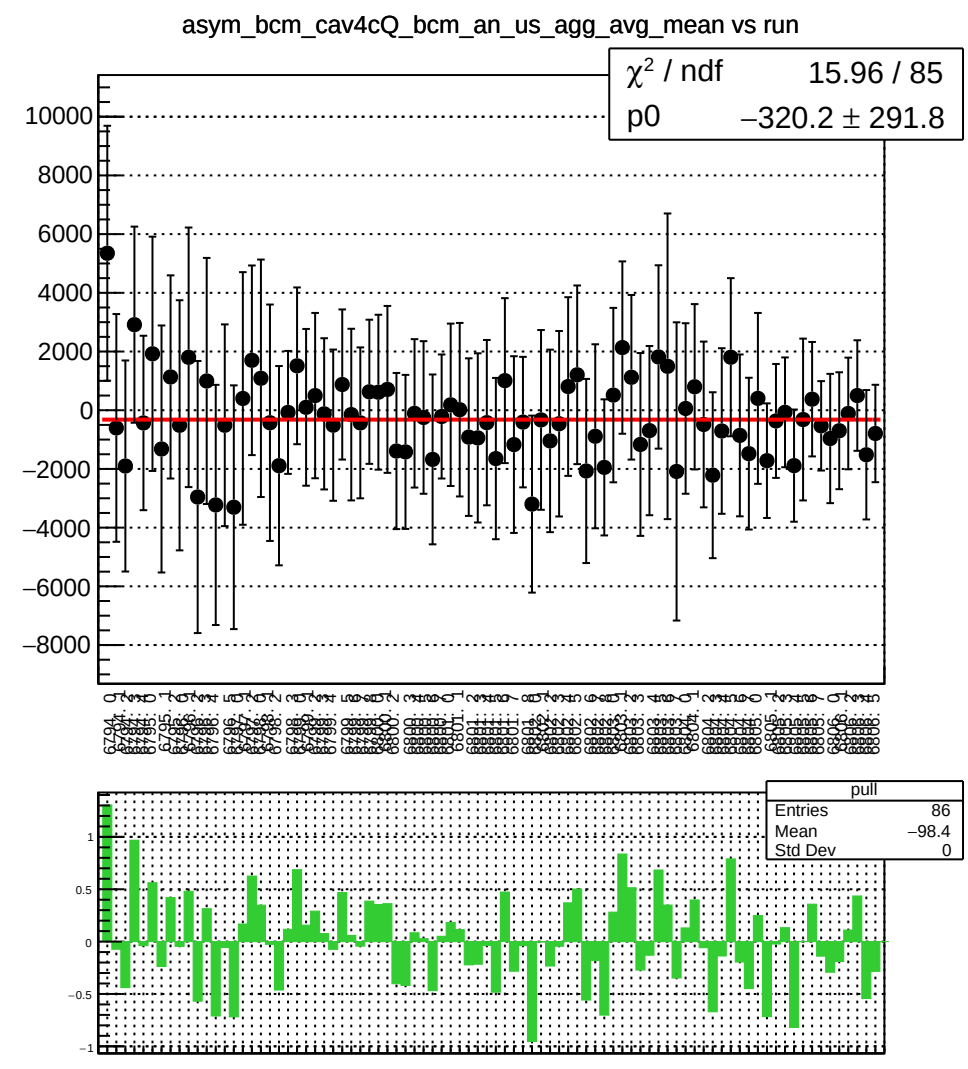

pull1D
Entries 86
Mean 0.01473
Std Dev 0.4272

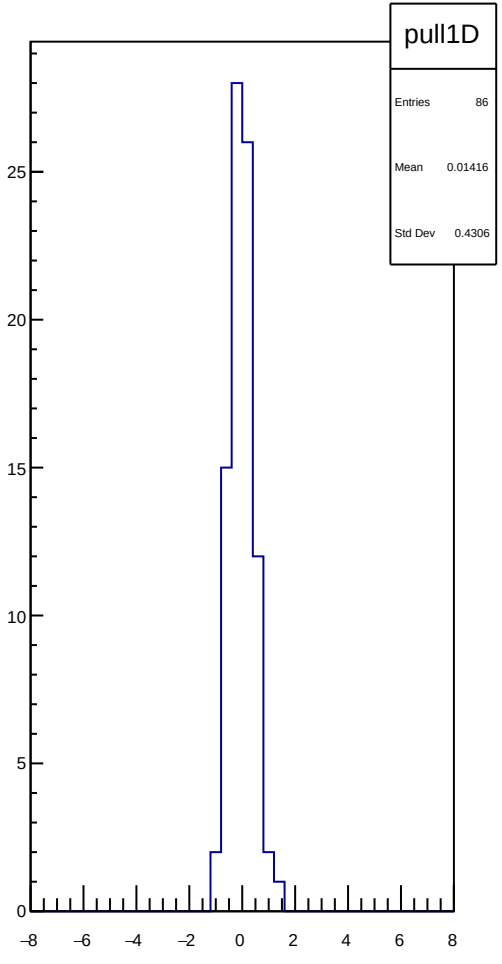

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.226e+04 / 85
p0 256.4 ± 0.2034
550
500
450
400
350
300
250
200
150

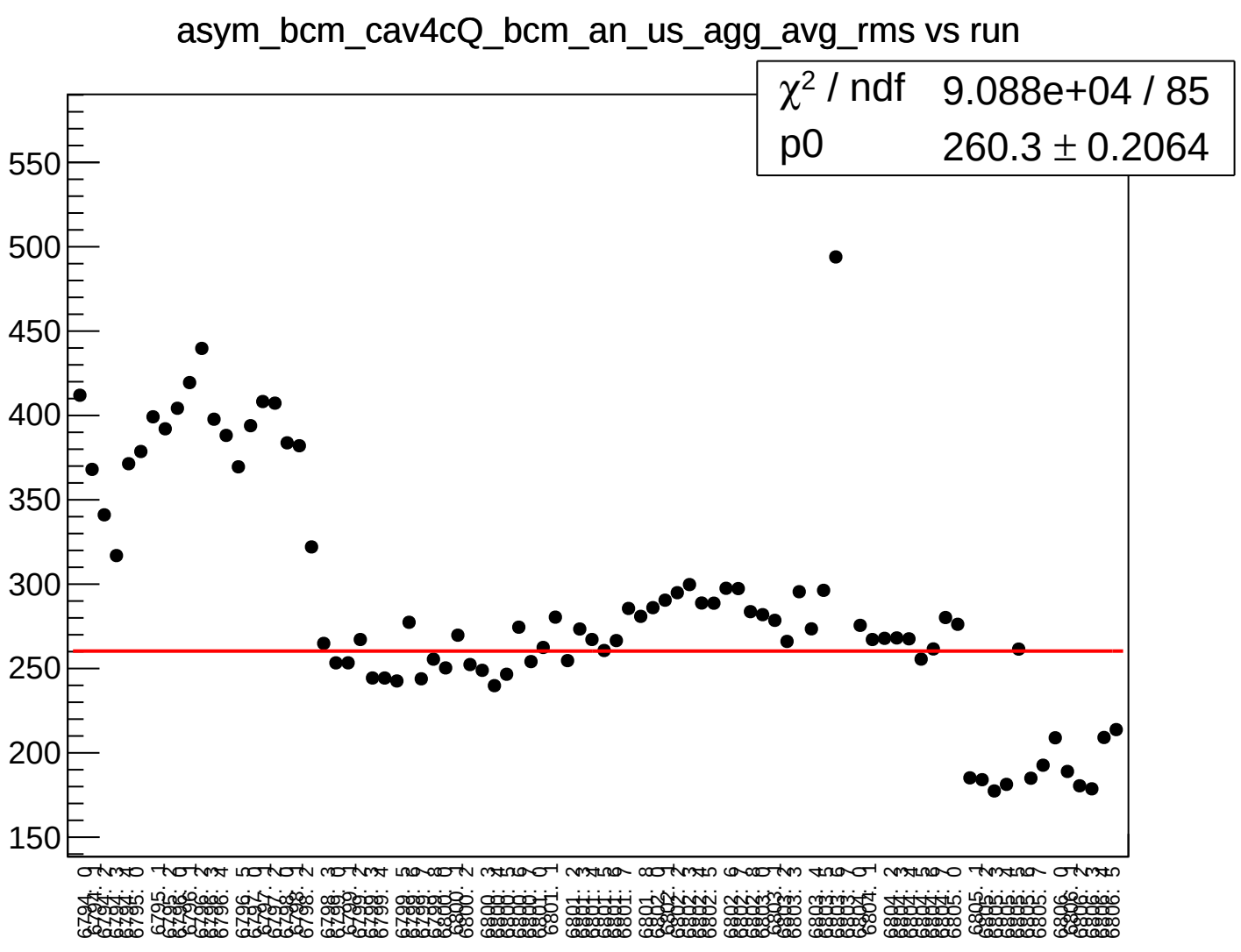

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 106.5 / 85
p0 −29.42 ± 27.66
1000
500
0
−500
−1000
pull
Entries 86
Mean −18.06
Std Dev 71.22
3
2
1
0
−1
−2
−3

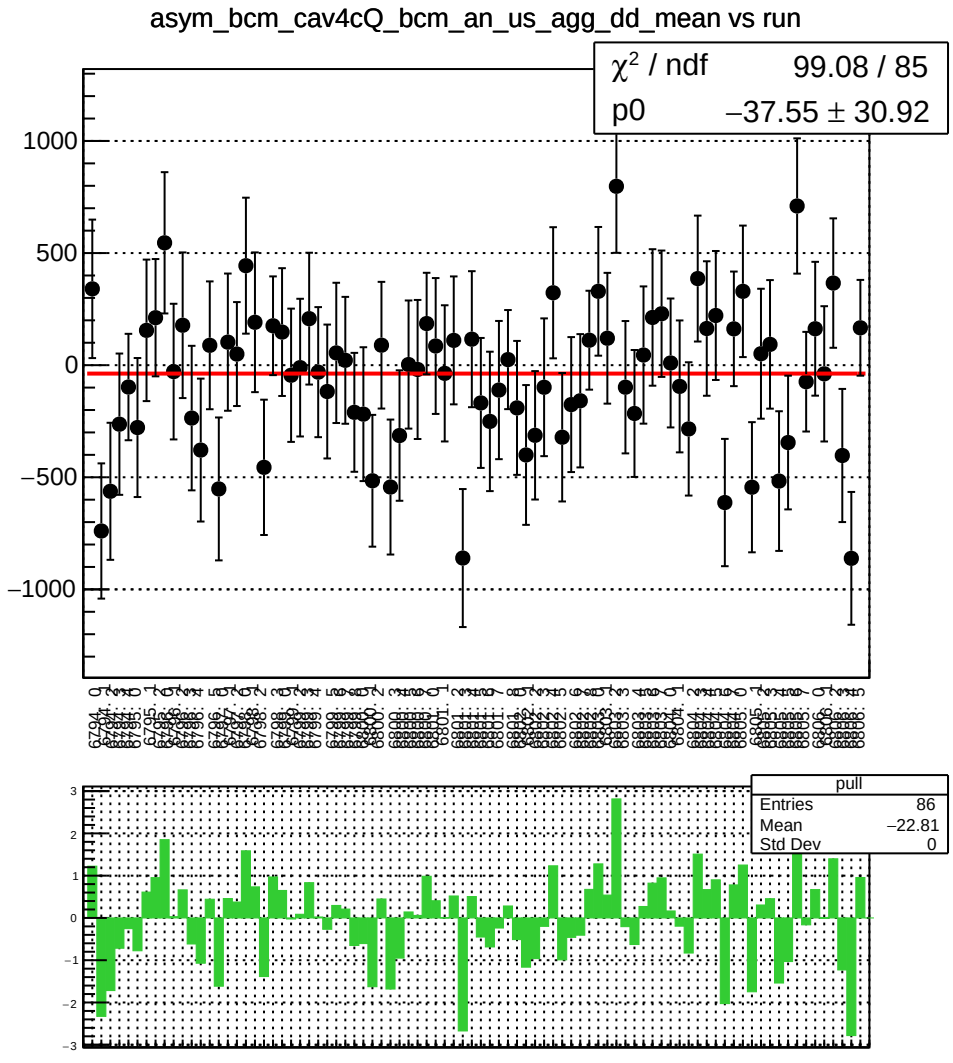

pull1D
Entries 86
Mean 0.01956
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

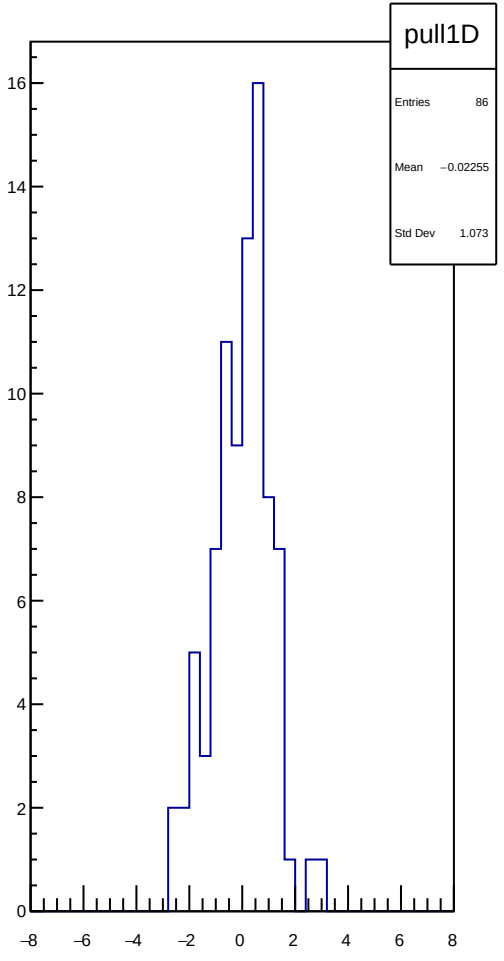

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3301 / 85
p0 25.35 ± 0.01956
30
29
28
27
26
25
24
23
22

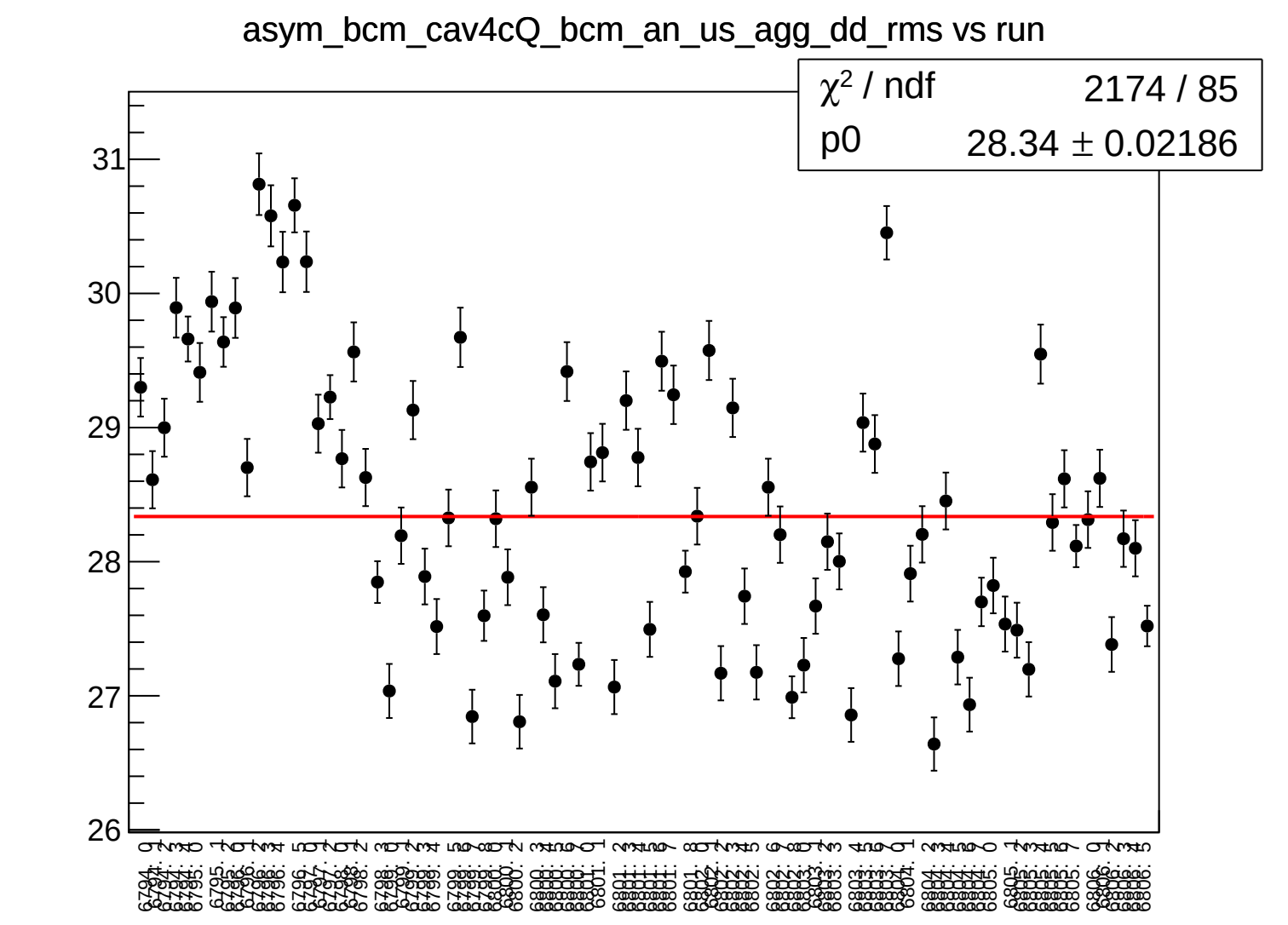

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.96 / 85
p0 −320.2 ± 291.8
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −98.4
Std Dev 0
1
0.5
0
−0.5
−1

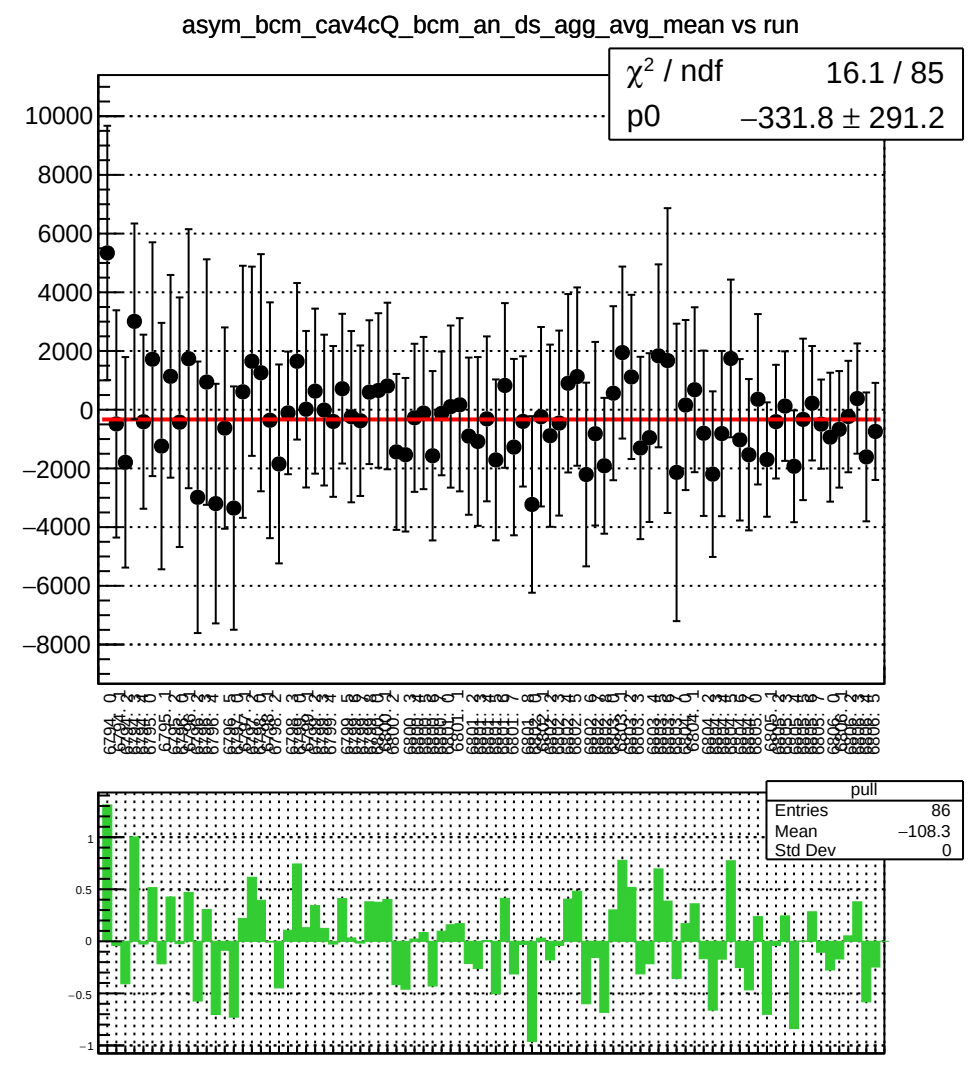

pull1D
Entries 86
Mean 0.01416
Std Dev 0.4306
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

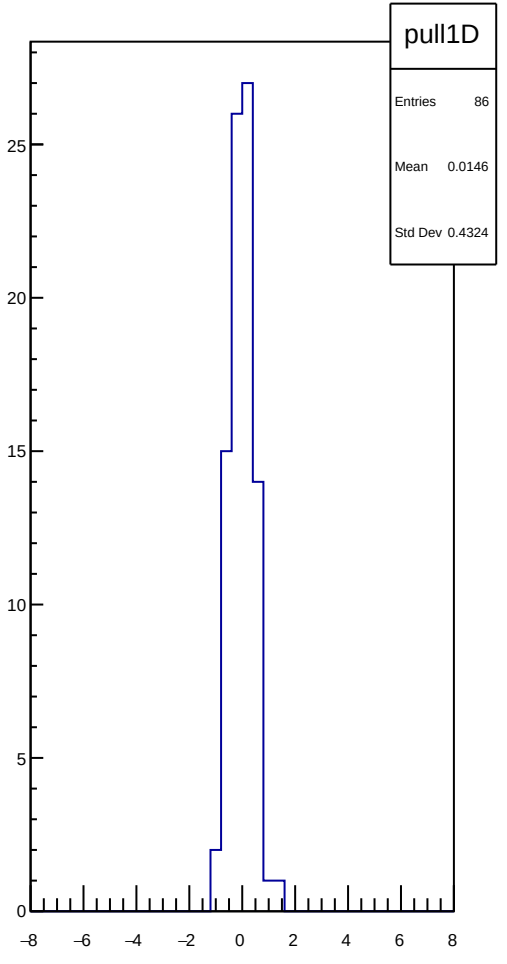

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9.088e+04 / 85
p0 260.3 ± 0.2064
550
500
450
400
350
300
250
200
150

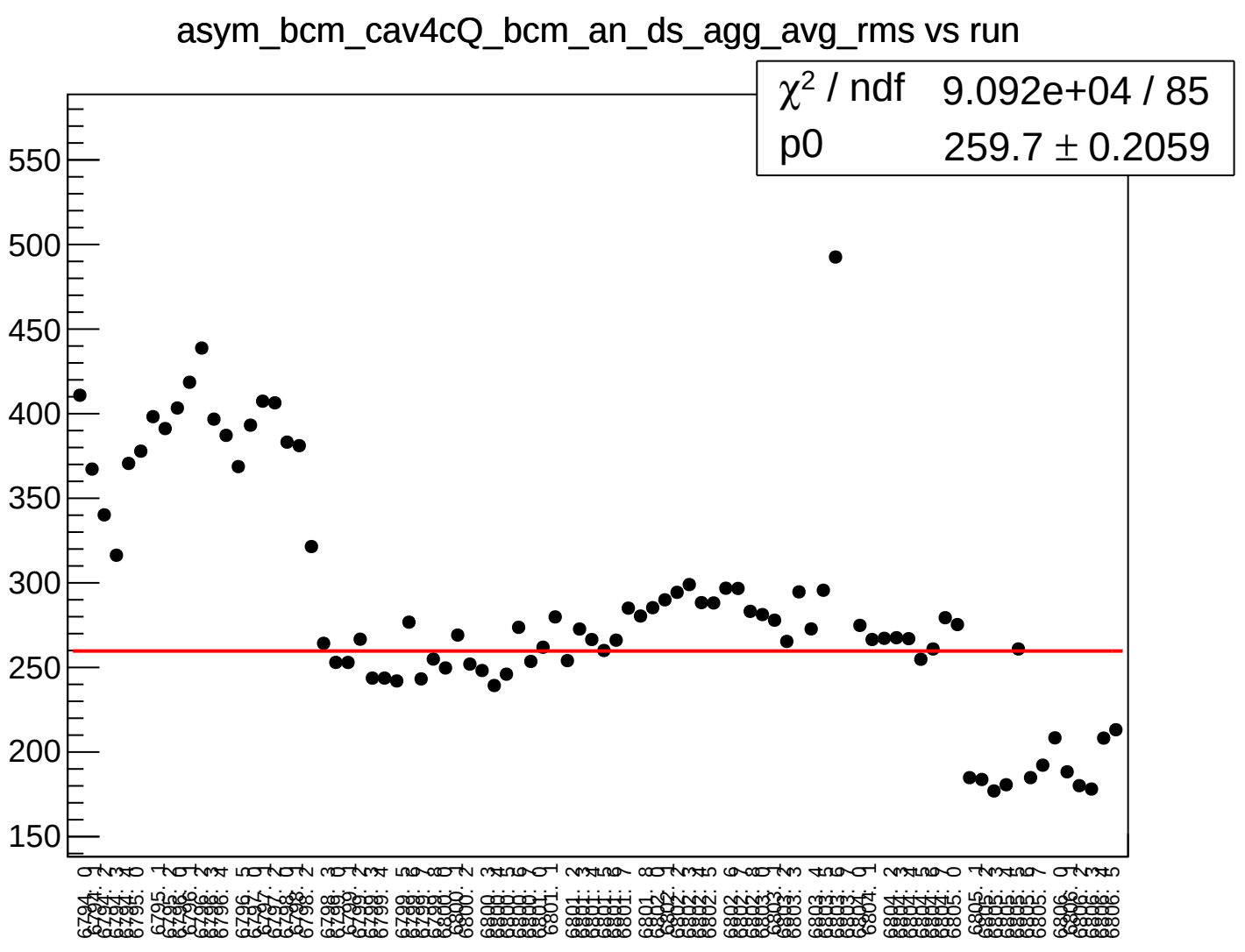

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 99.08 / 85
p0 −37.55 ± 30.92
1000
500
0
−500
−1000
pull
Entries 86
Mean −22.81
Std Dev 0
3
2
1
0
−1
−2
−3

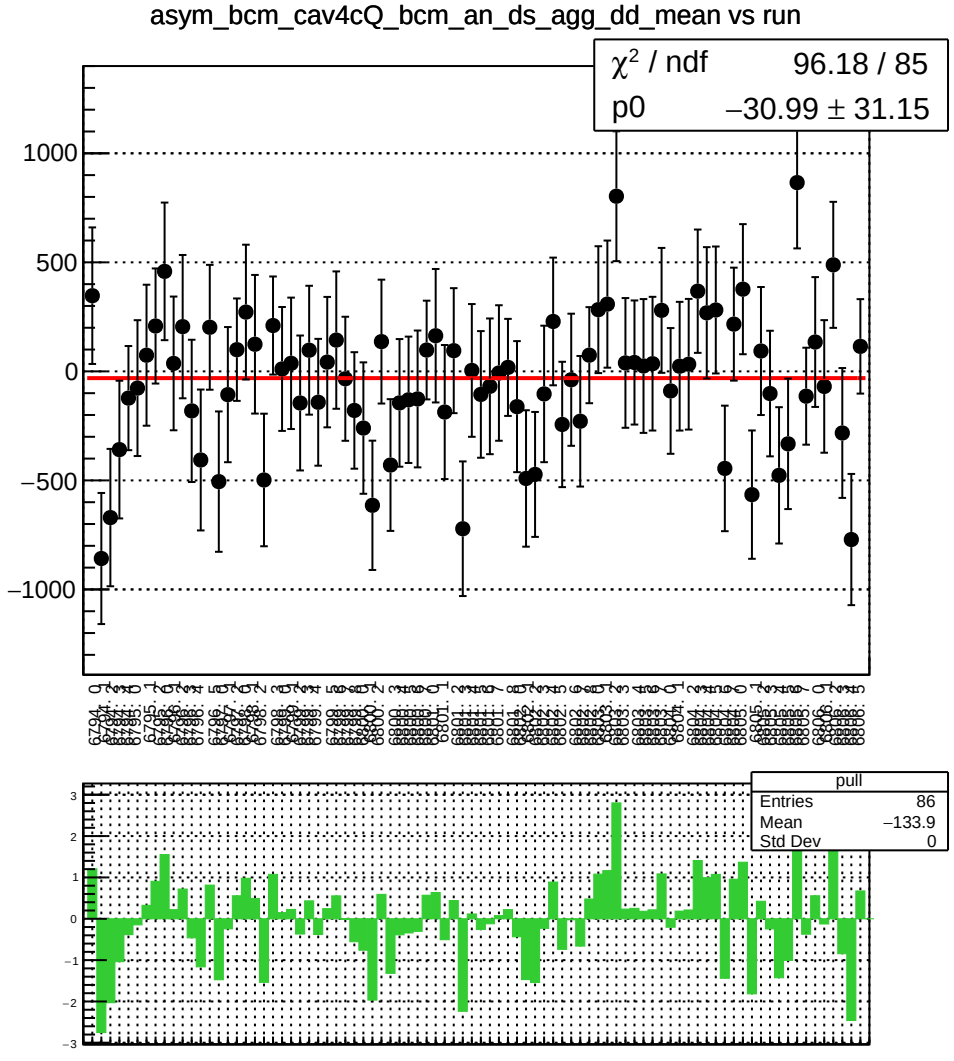

pull1D
Entries 86
Mean −0.02255
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

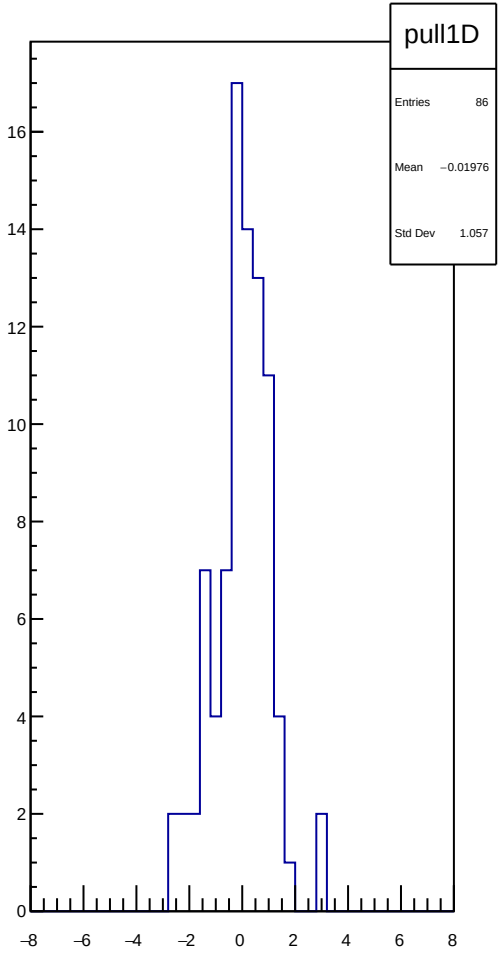

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2174 / 85
p0 28.34 ± 0.02186
31
30
29
28
27
26

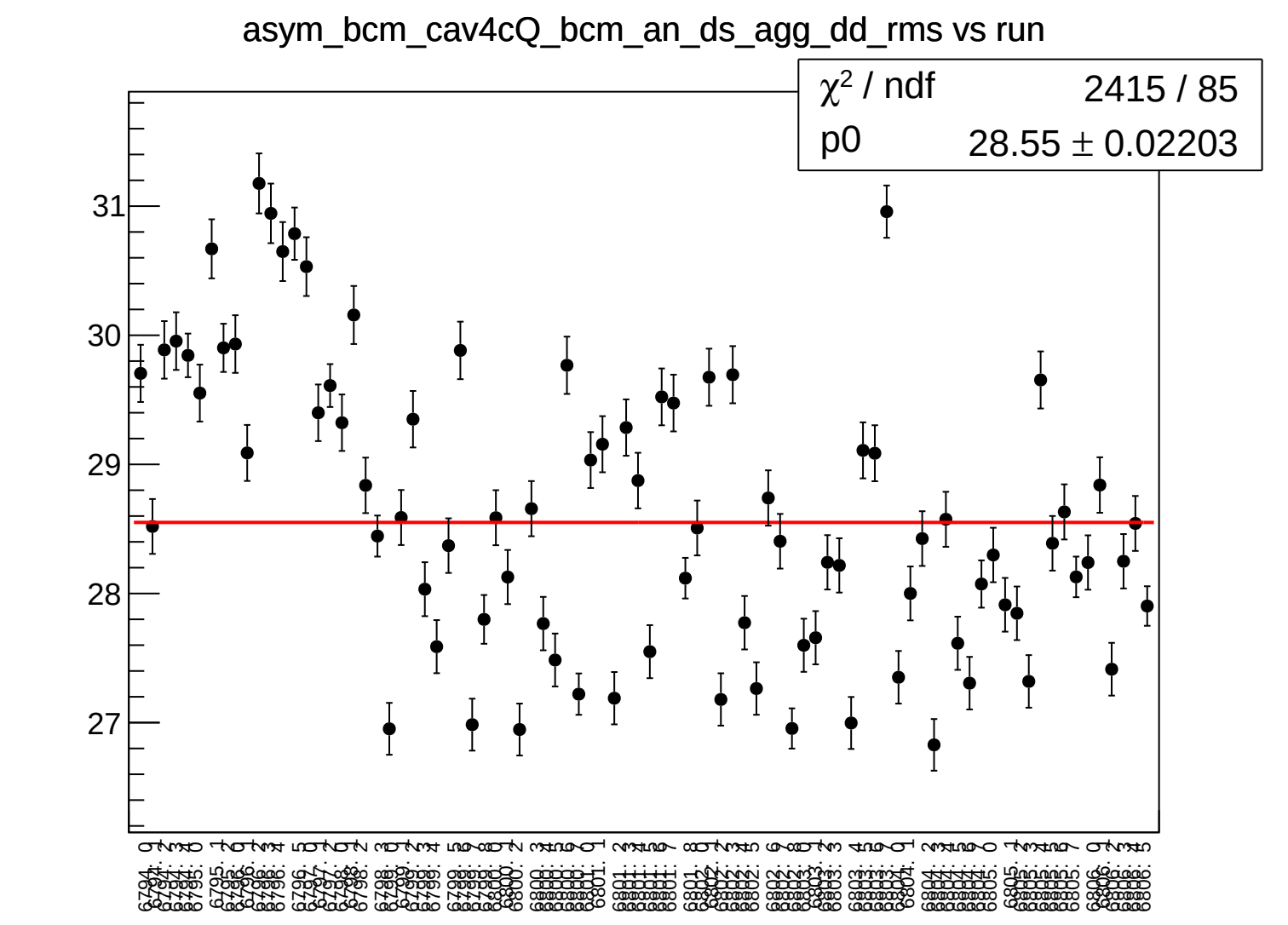

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.1 / 85
p0 −331.8 ± 291.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −108.3
Std Dev 0
1
0.5
0
−0.5
−1

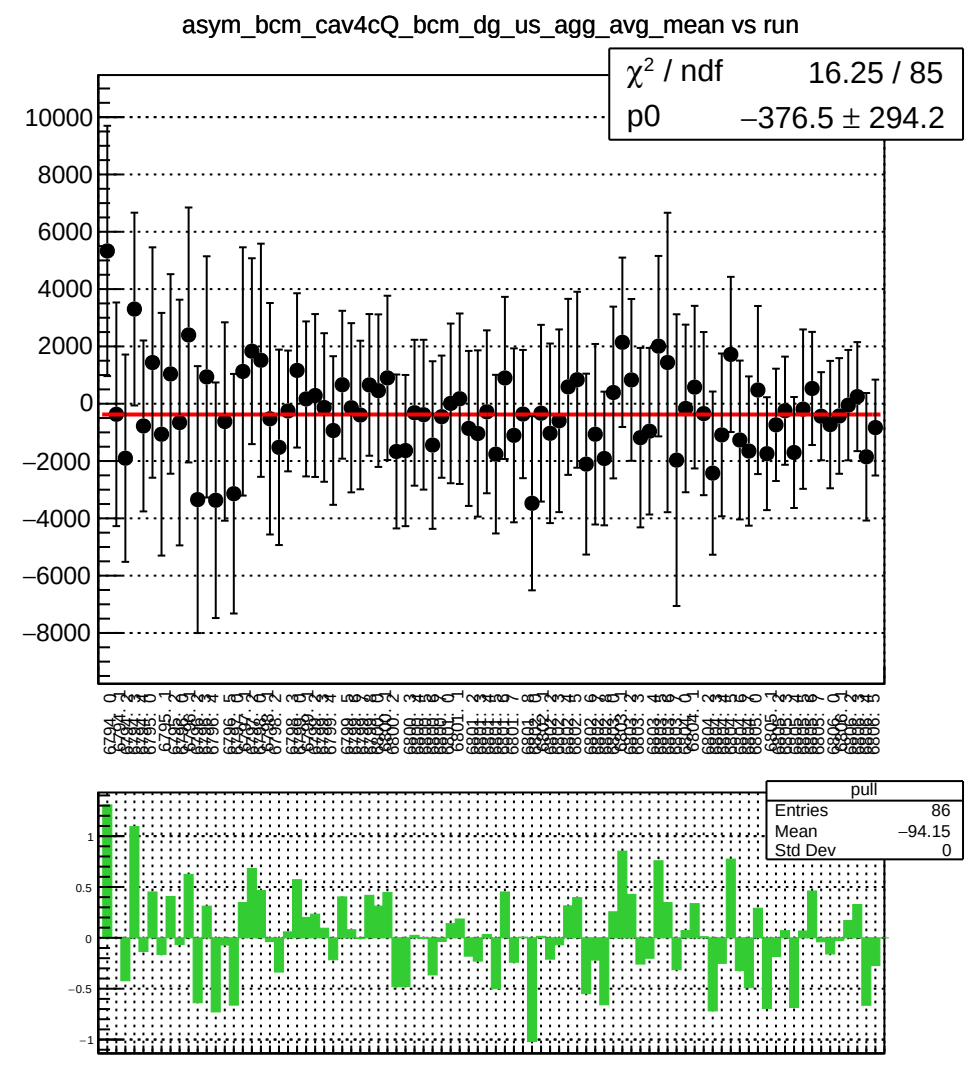

pull1D
Entries 86
Mean 0.0146
Std Dev 0.4324
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

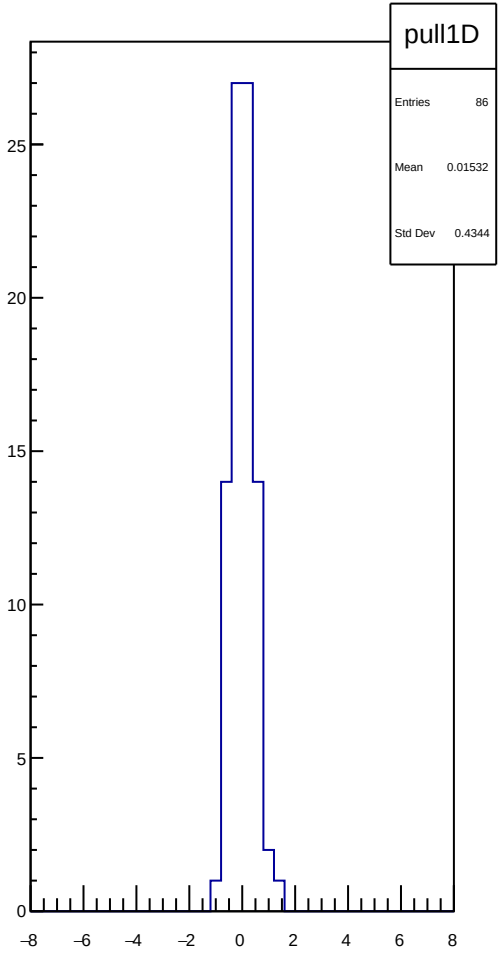

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9.092e+04 / 85
p0 259.7 ± 0.2059
550
500
450
400
350
300
250
200
150

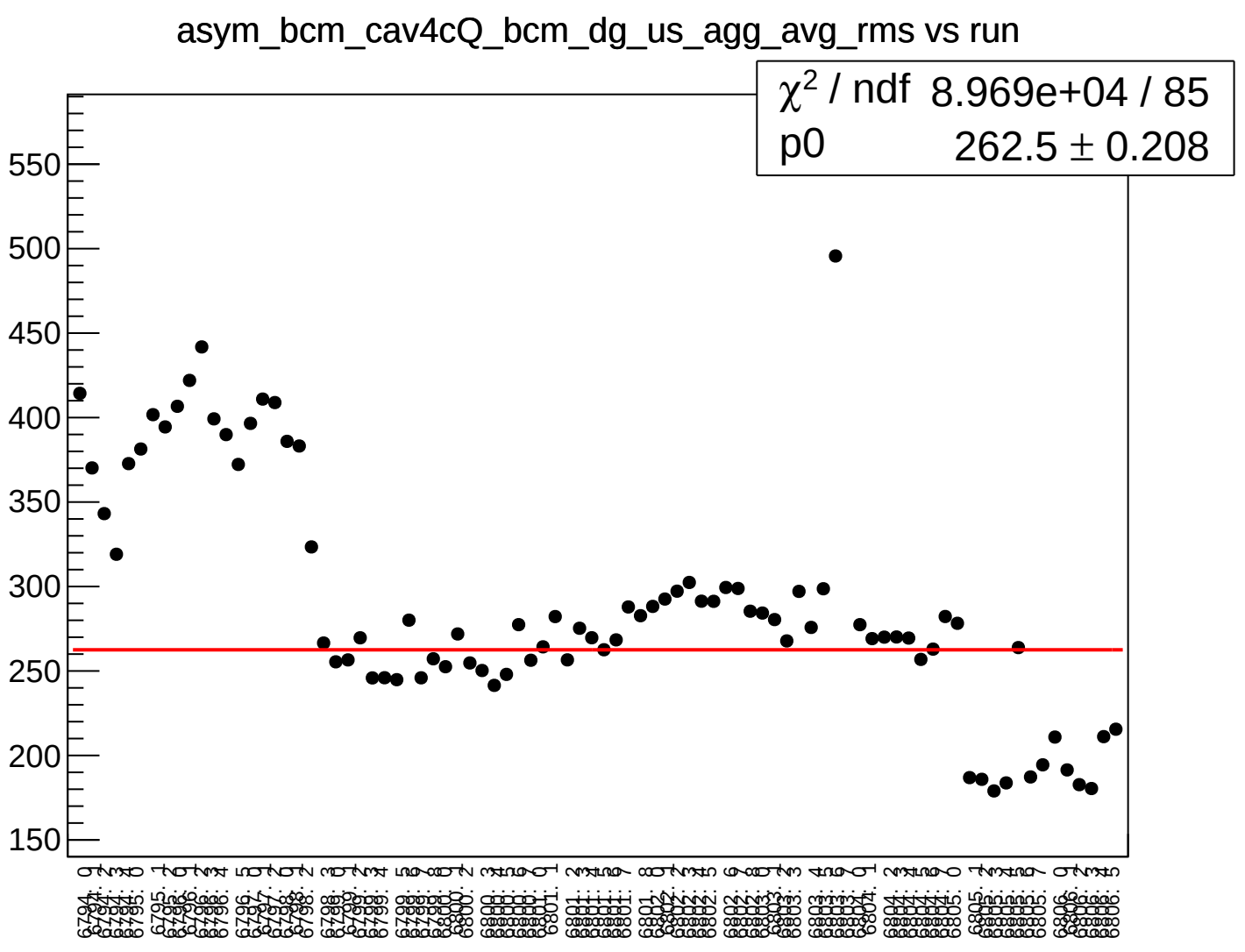

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 96.18 / 85
p0 −30.99 ± 31.15
1000
500
0
−500
−1000
pull
Entries 86
Mean −133.9
Std Dev 0
3
2
1
0
−1
−2
−3

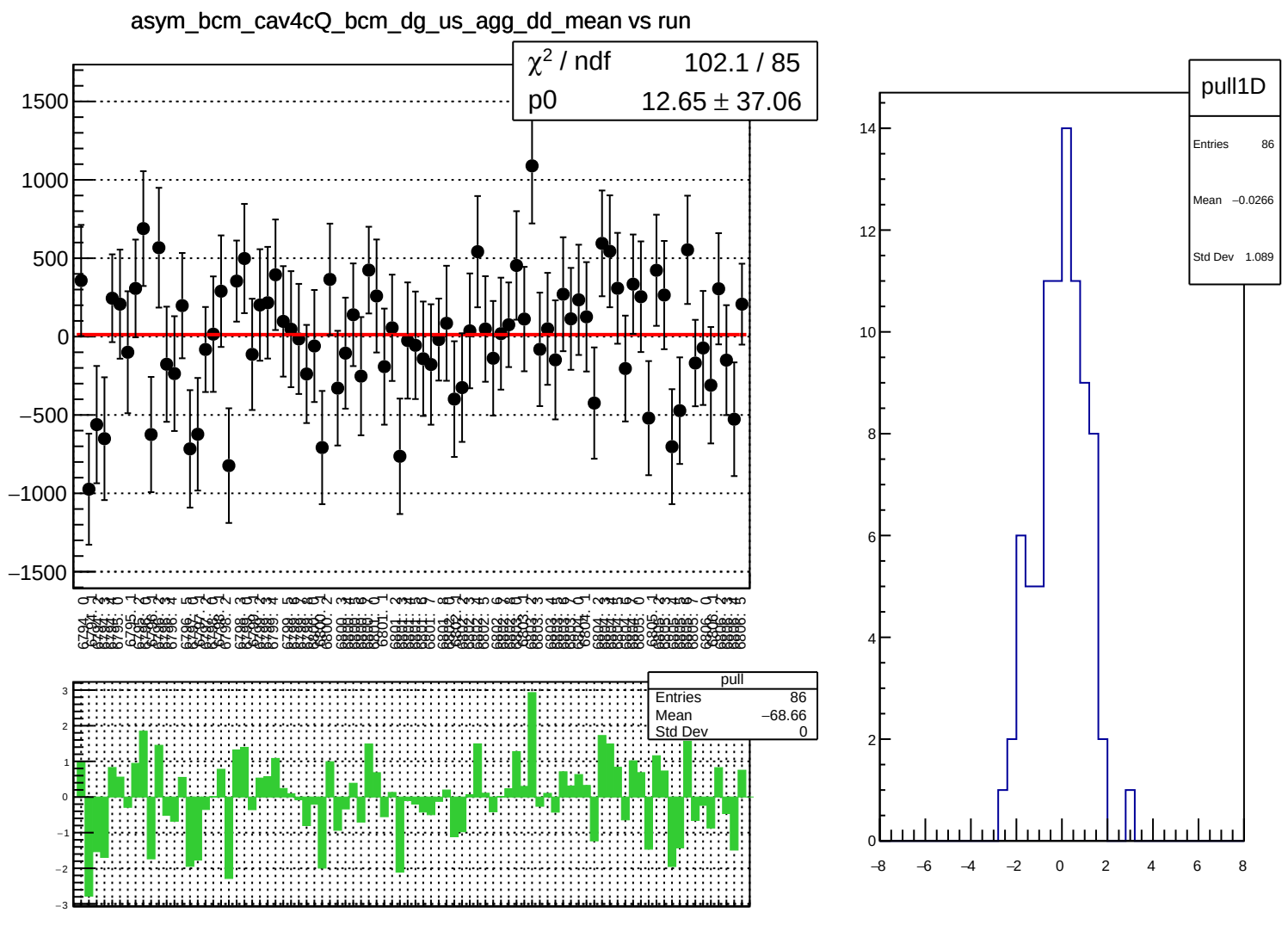

pull1D
Entries 86
Mean −0.01976
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

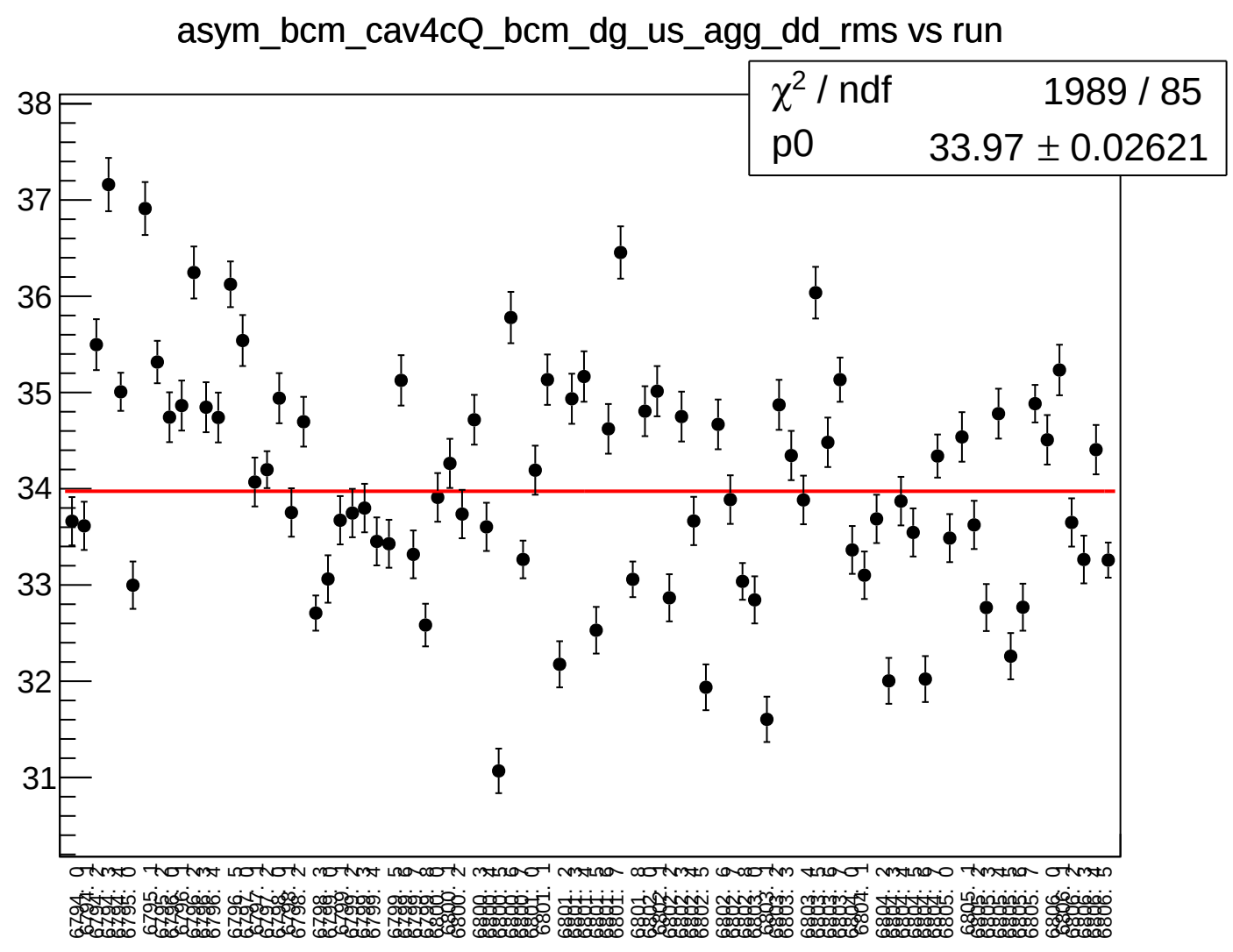

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2415 / 85
p0 28.55 ± 0.02203
31
30
29
28
27

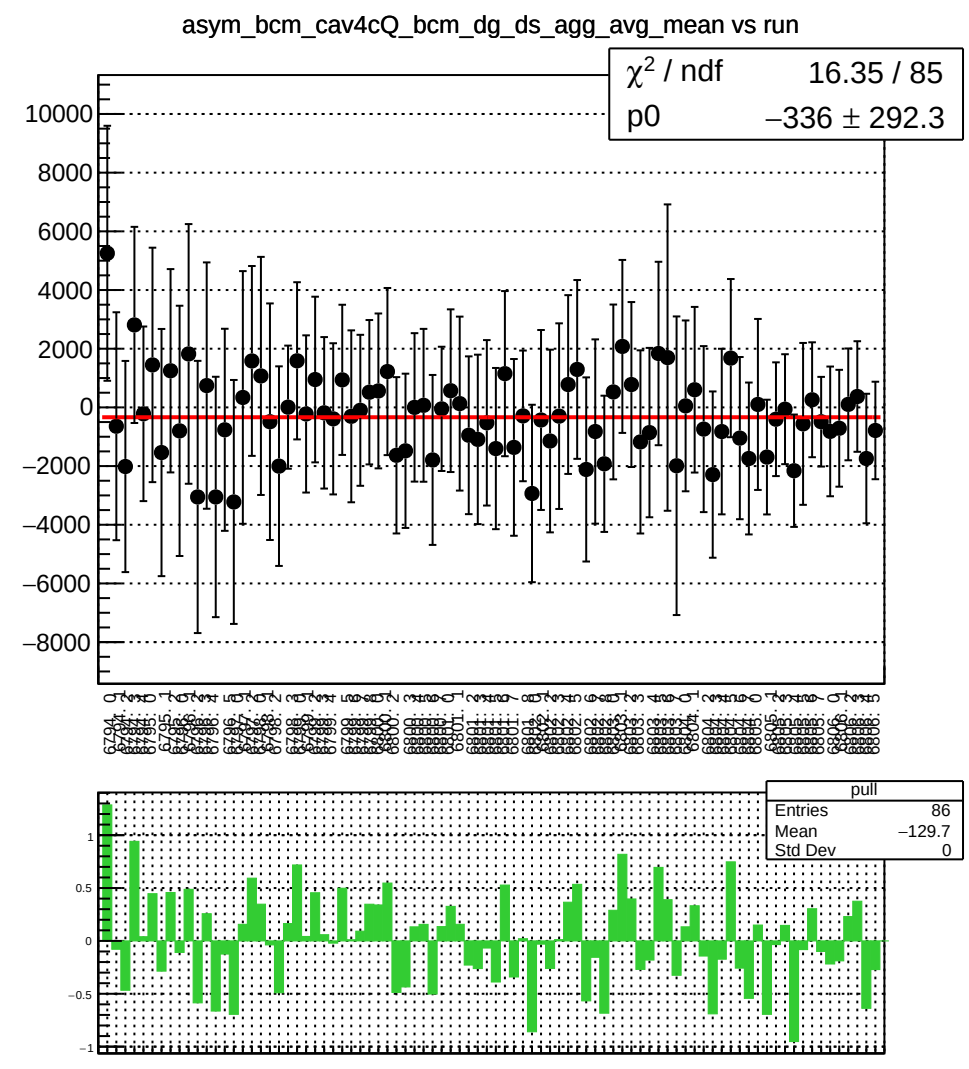

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 16.25 / 85
p0 −376.5 ± 294.2
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −94.15
Std Dev 0
1
0.5
0
−0.5
−1

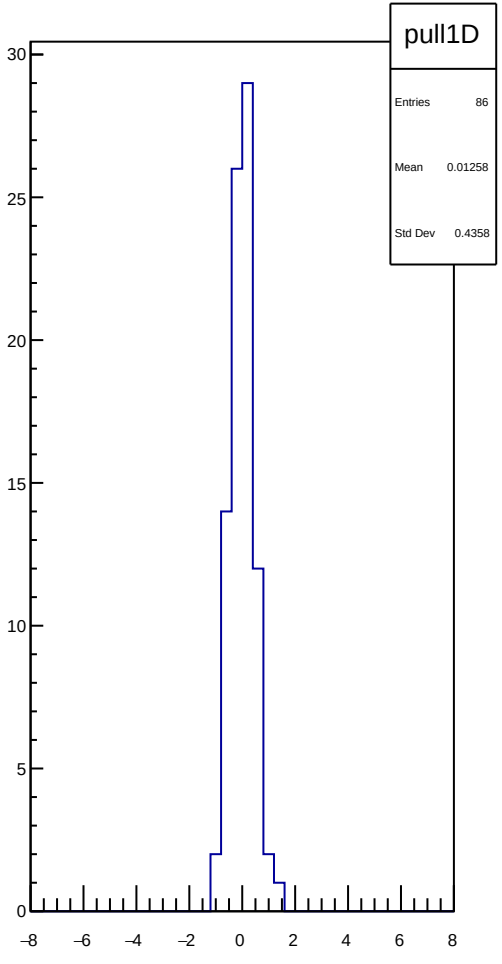

pull1D
Entries 86
Mean 0.01532
Std Dev 0.4344
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

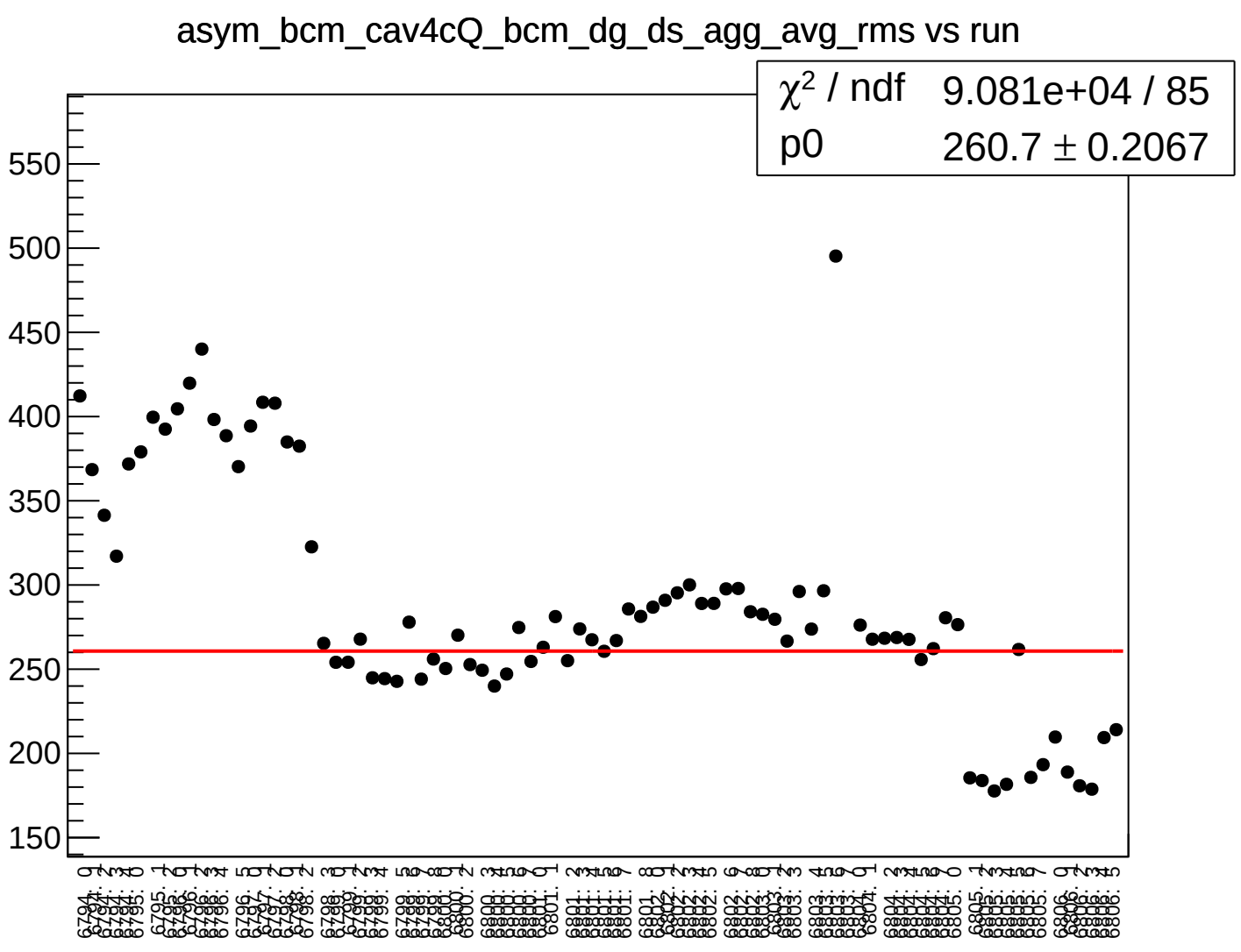

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 8.969e+04 / 85
p0 262.5 ± 0.208
550
500
450
400
350
300
250
200
150

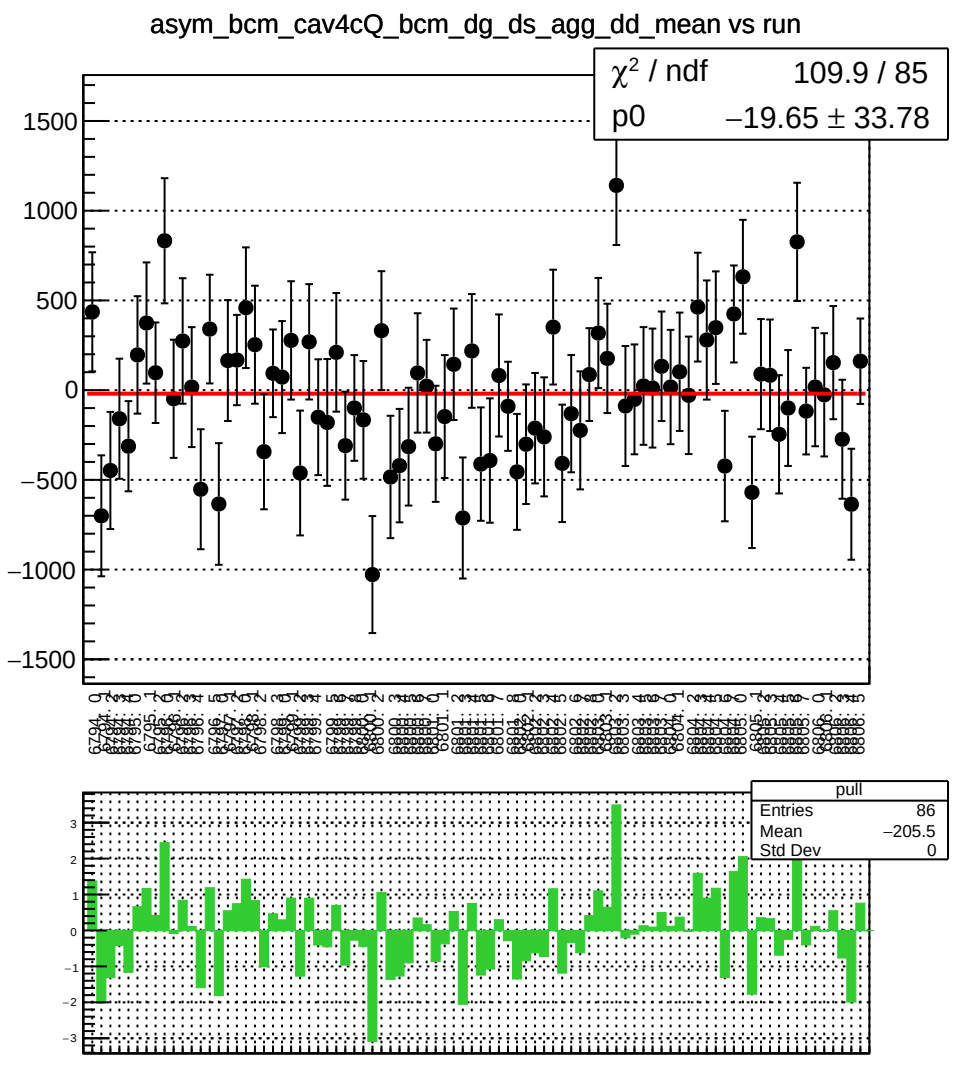

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 102.1 / 85
p0 12.65 ± 37.06
pull
Entries 86
Mean −68.66
Std Dev 0
pull1D
Entries 86
Mean −0.0266
Std Dev 1.089

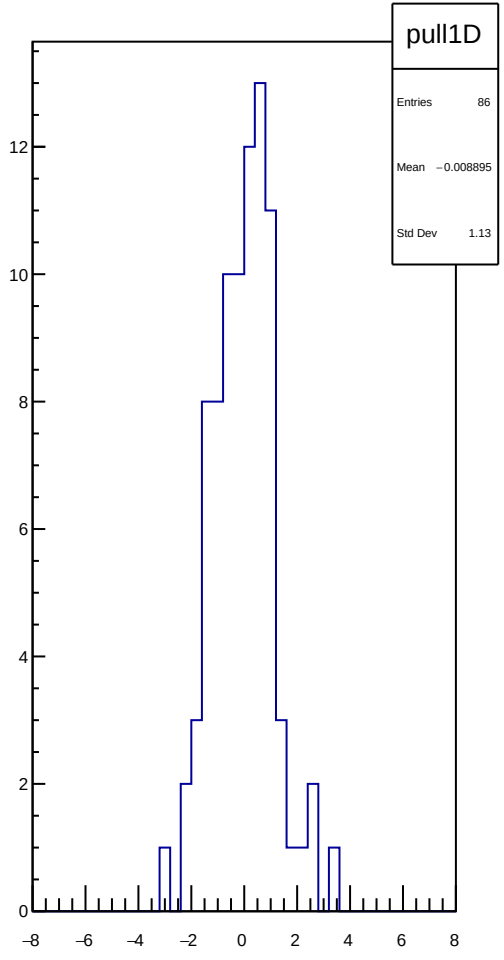

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1989 / 85
p0 33.97 ± 0.02621
38
37
36
35
34
33
32
31

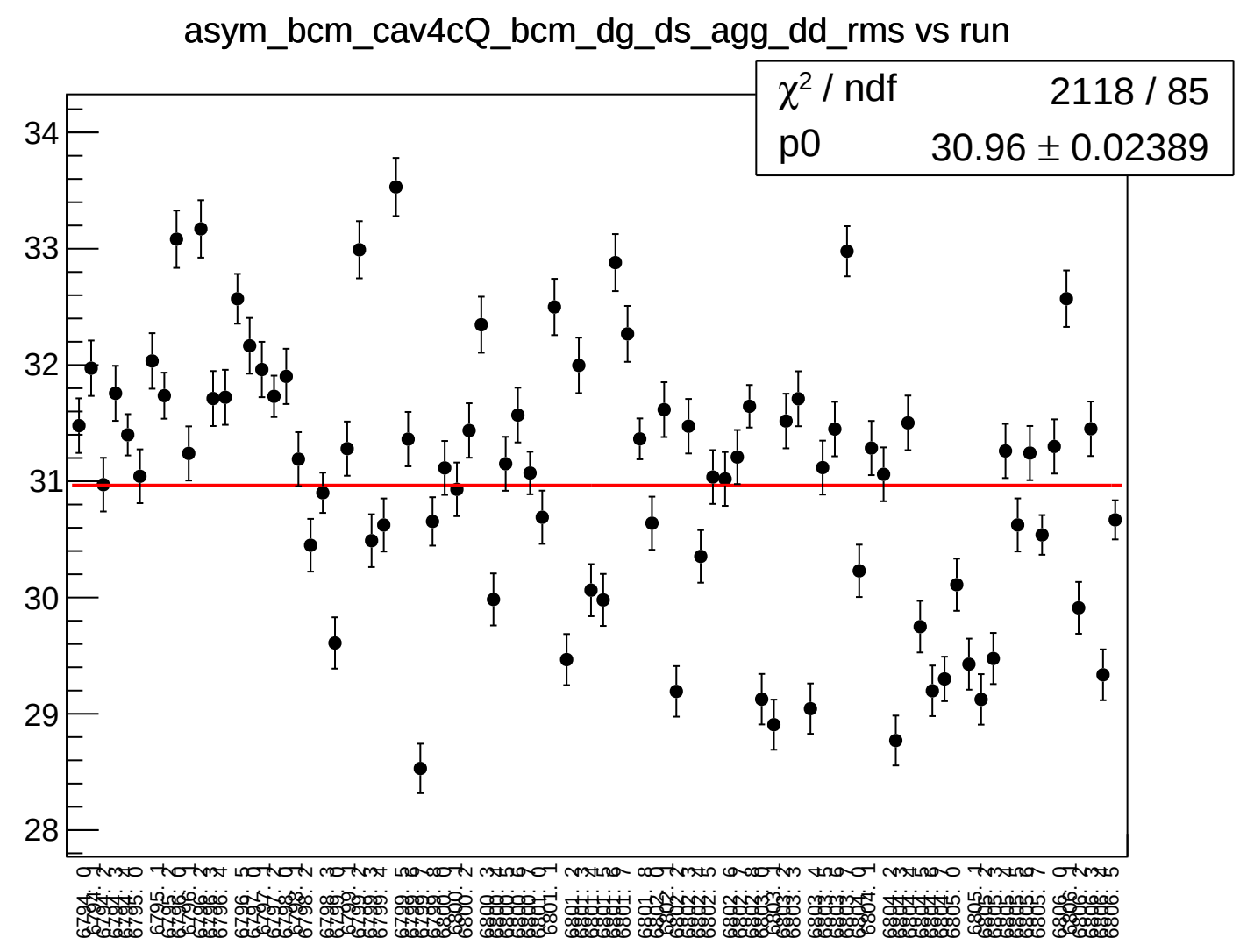

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.35 / 85
p0 −336 ± 292.3
pull
Entries 86
Mean −129.7
Std Dev 0

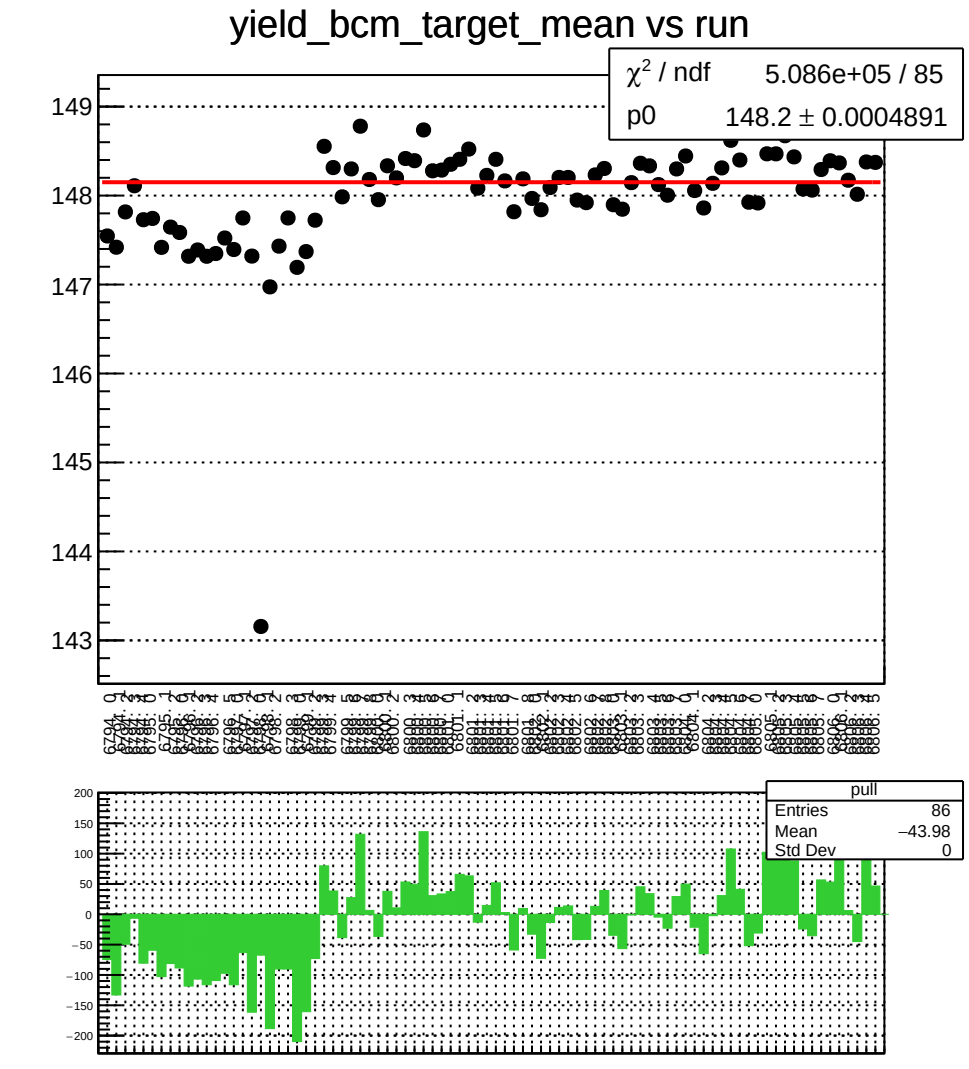

pull1D
Entries 86
Mean 0.01258
Std Dev 0.4358

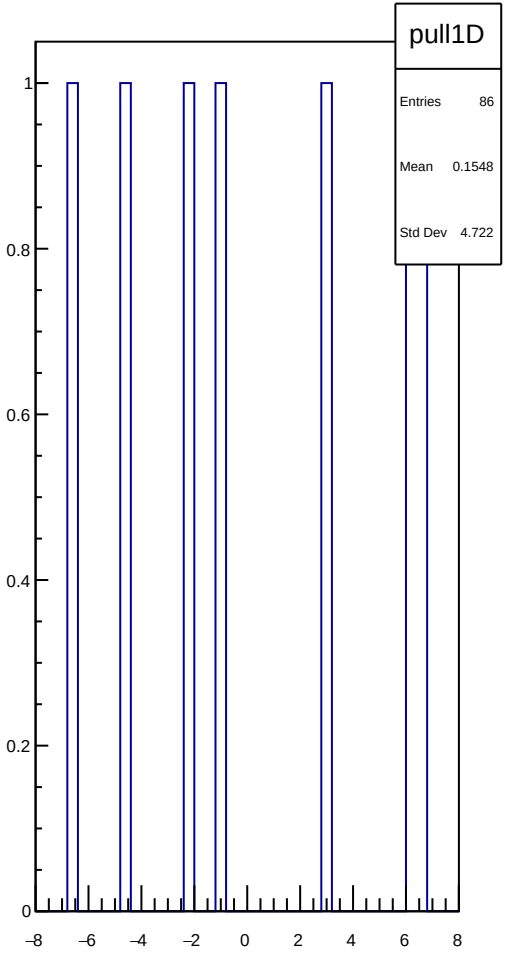

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9.081e+04 / 85
p0 260.7 ± 0.2067
550
500
450
400
350
300
250
200
150

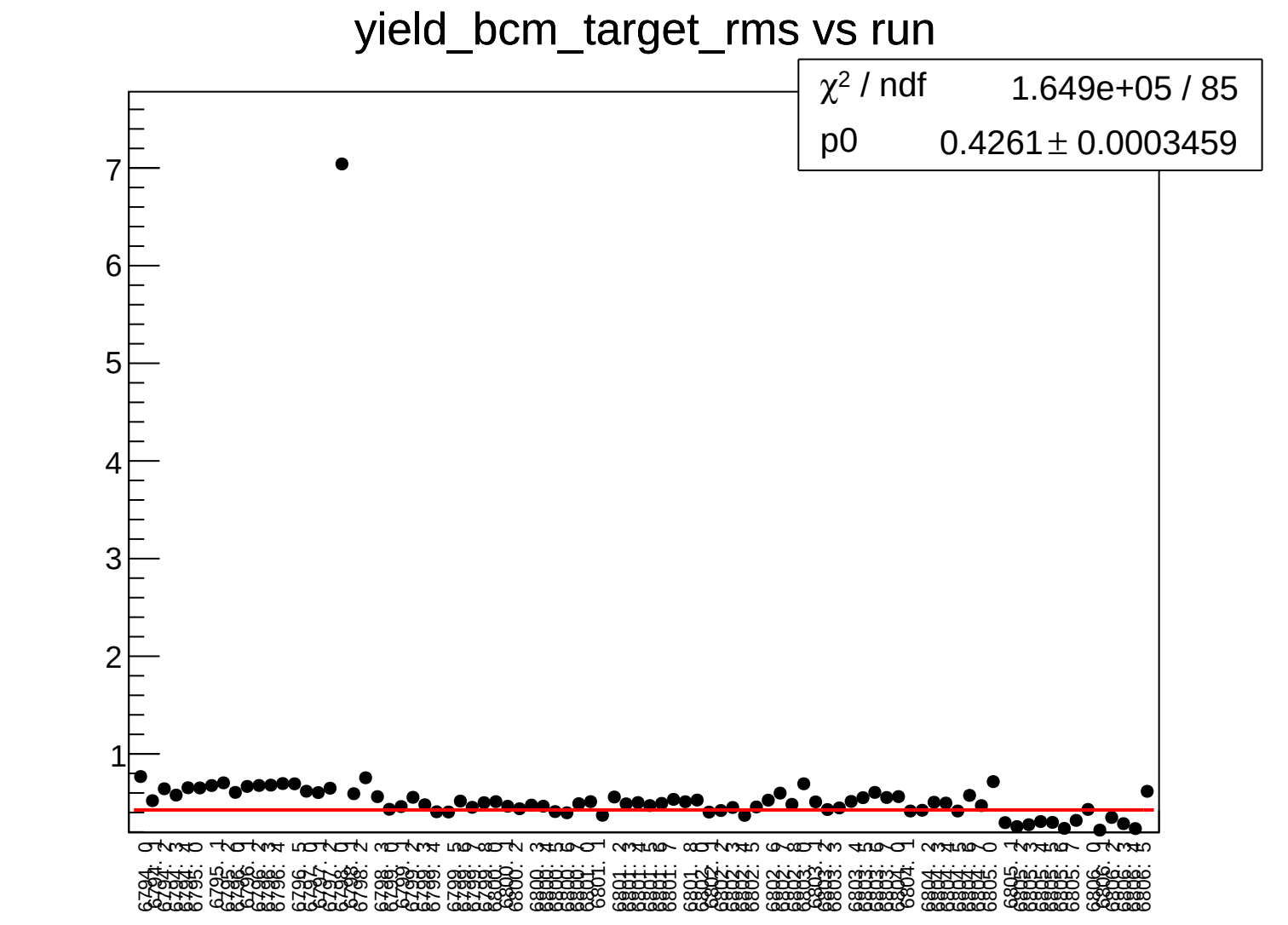

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 109.9 / 85
p0 −19.65 ± 33.78
1500
1000
500
0
−500
−1000
−1500
pull
Entries 86
Mean −205.5
Std Dev 0
3
2
1
0
−1
−2
−3

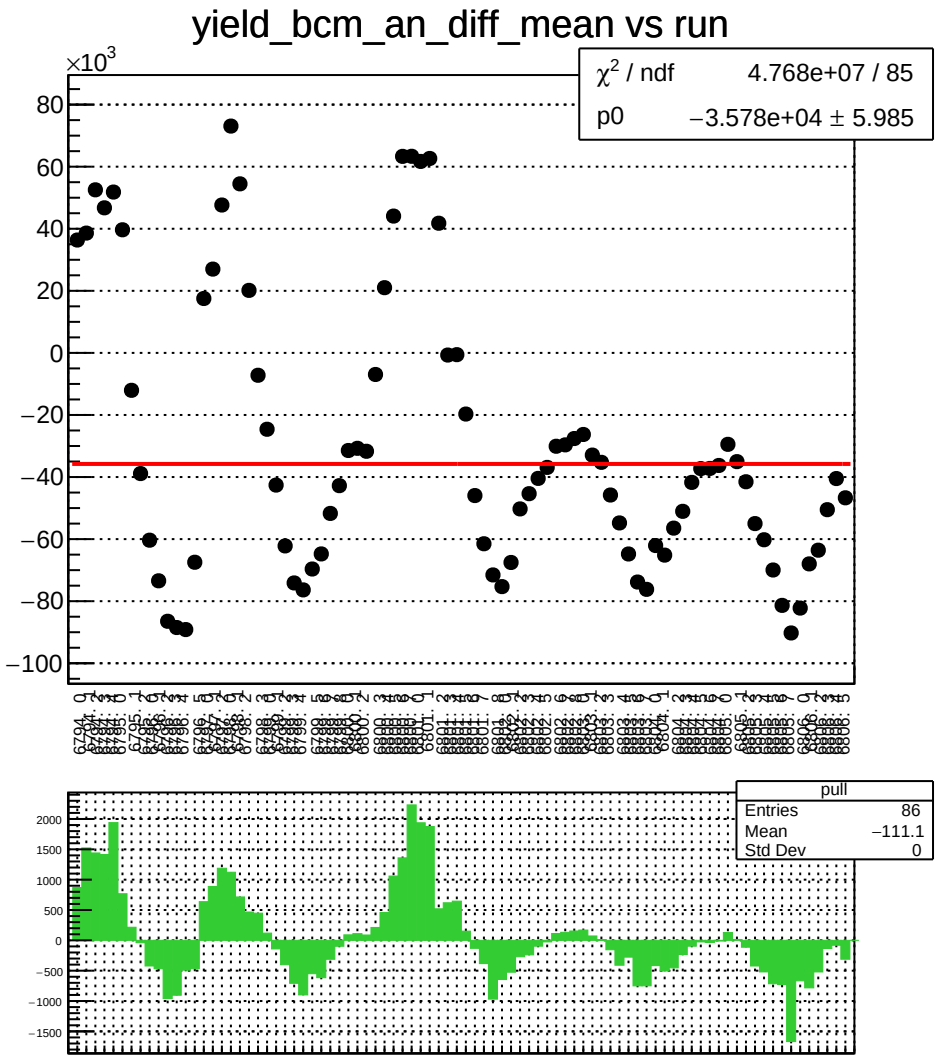

pull1D
Entries 86
Mean −0.008895
Std Dev 1.13
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

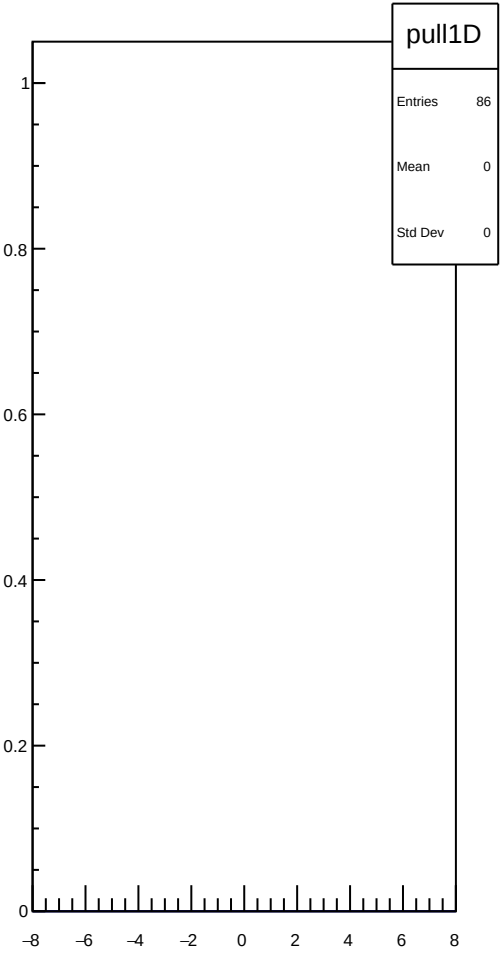

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2118 / 85
p0 30.96 ± 0.02389
34
33
32
31
30
29
28

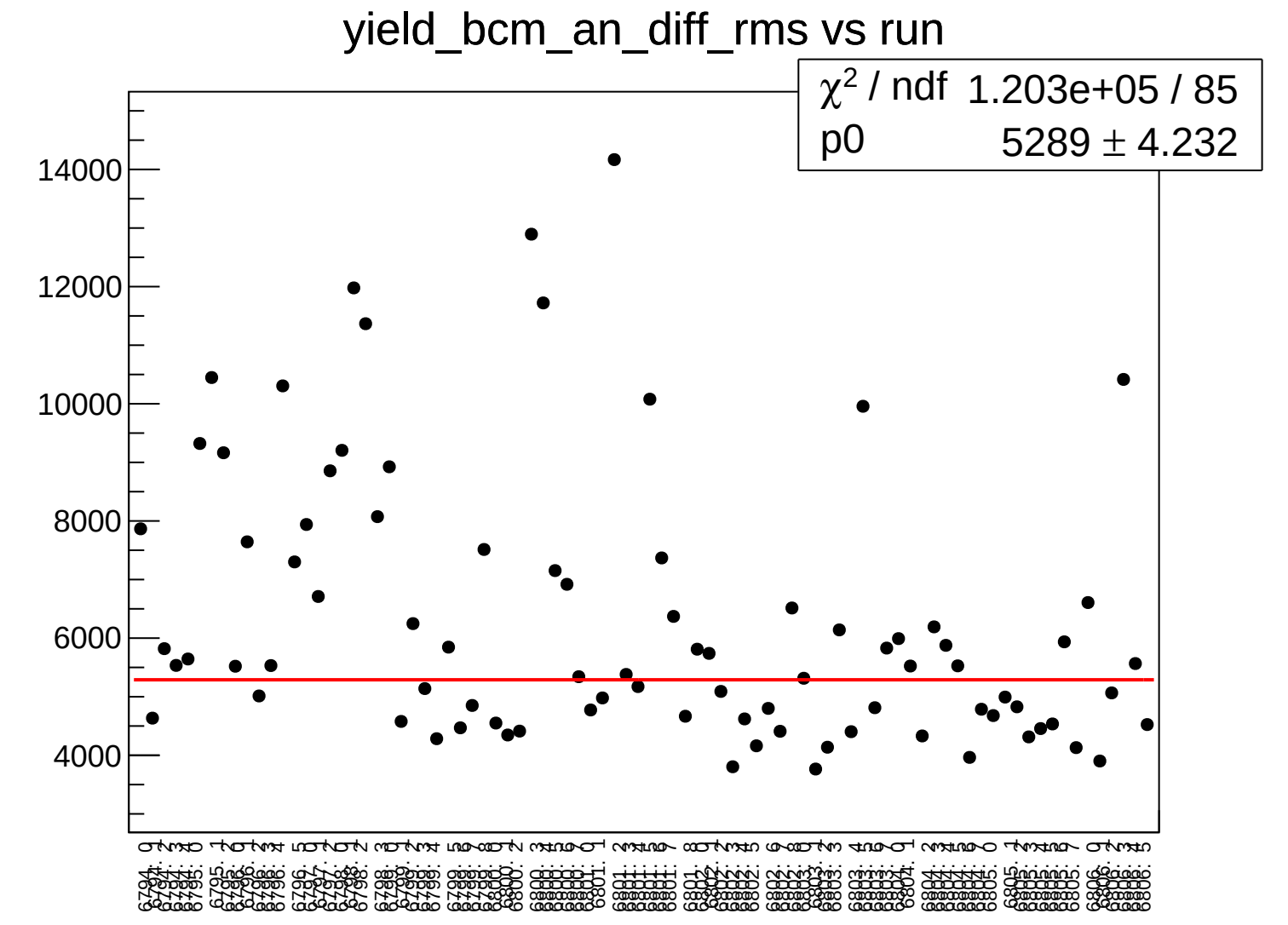

yield_bcm_target_mean vs run
χ² / ndf 5.086e+05 / 85
p0 148.2 ± 0.0004891
149
148
147
146
145
144
143
pull
Entries 86
Mean −43.98
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

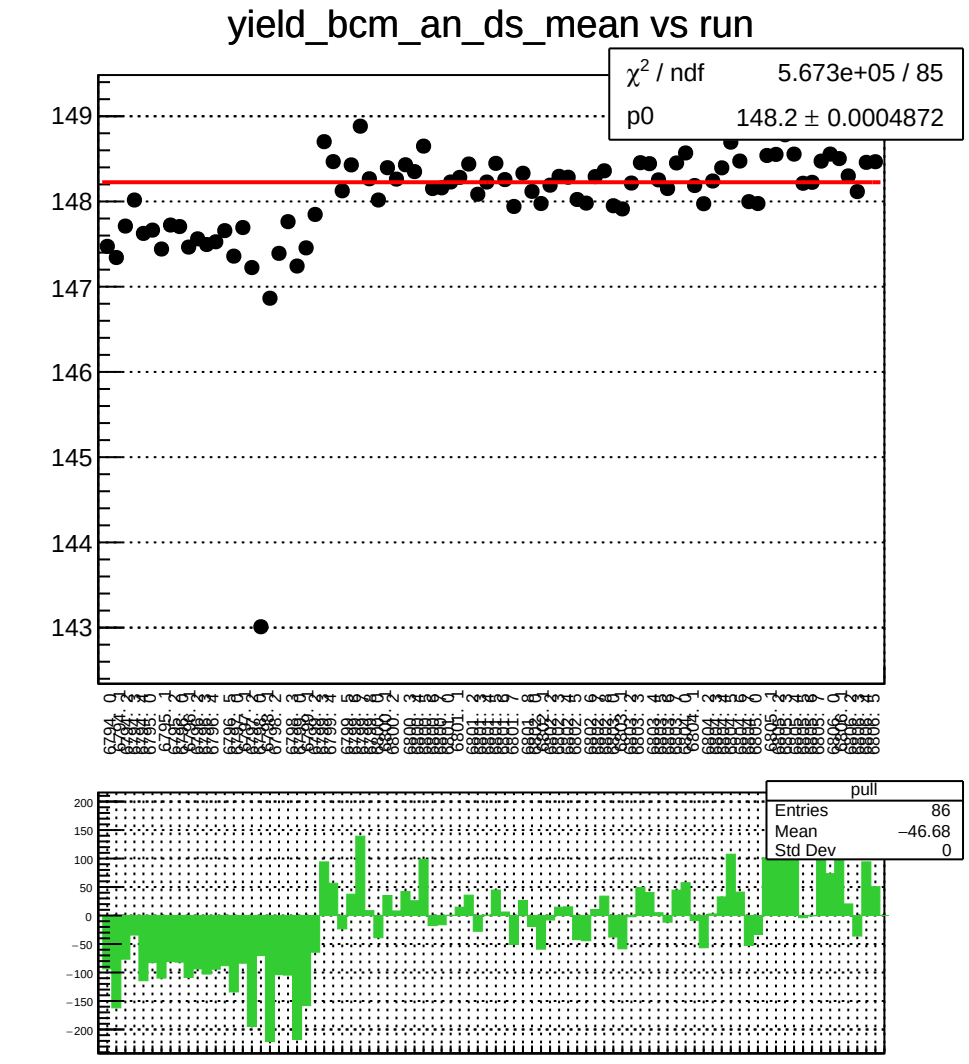

pull1D
Entries 86
Mean 0.1548
Std Dev 4.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

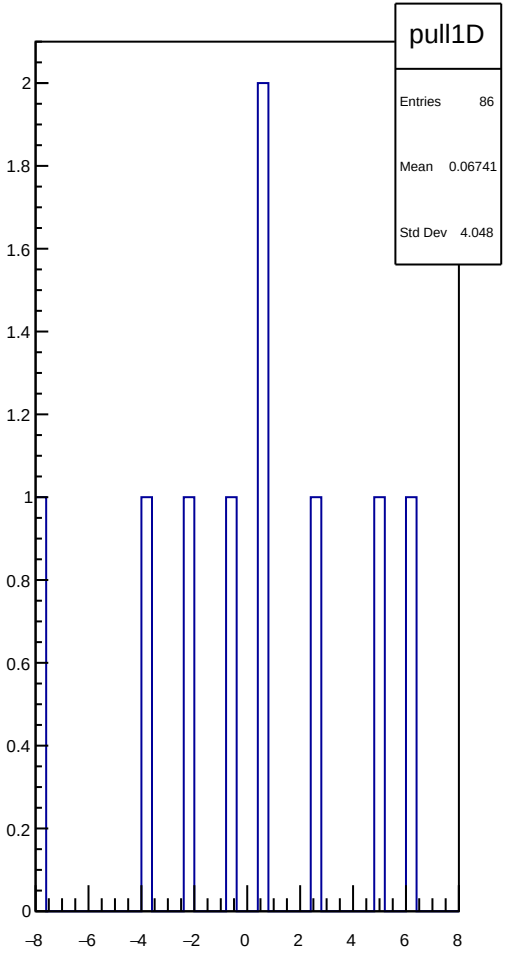

yield_bcm_target_rms vs run
χ² / ndf 1.649e+05 / 85
p0 0.4261 ± 0.0003459
7
6
5
4
3
2
1

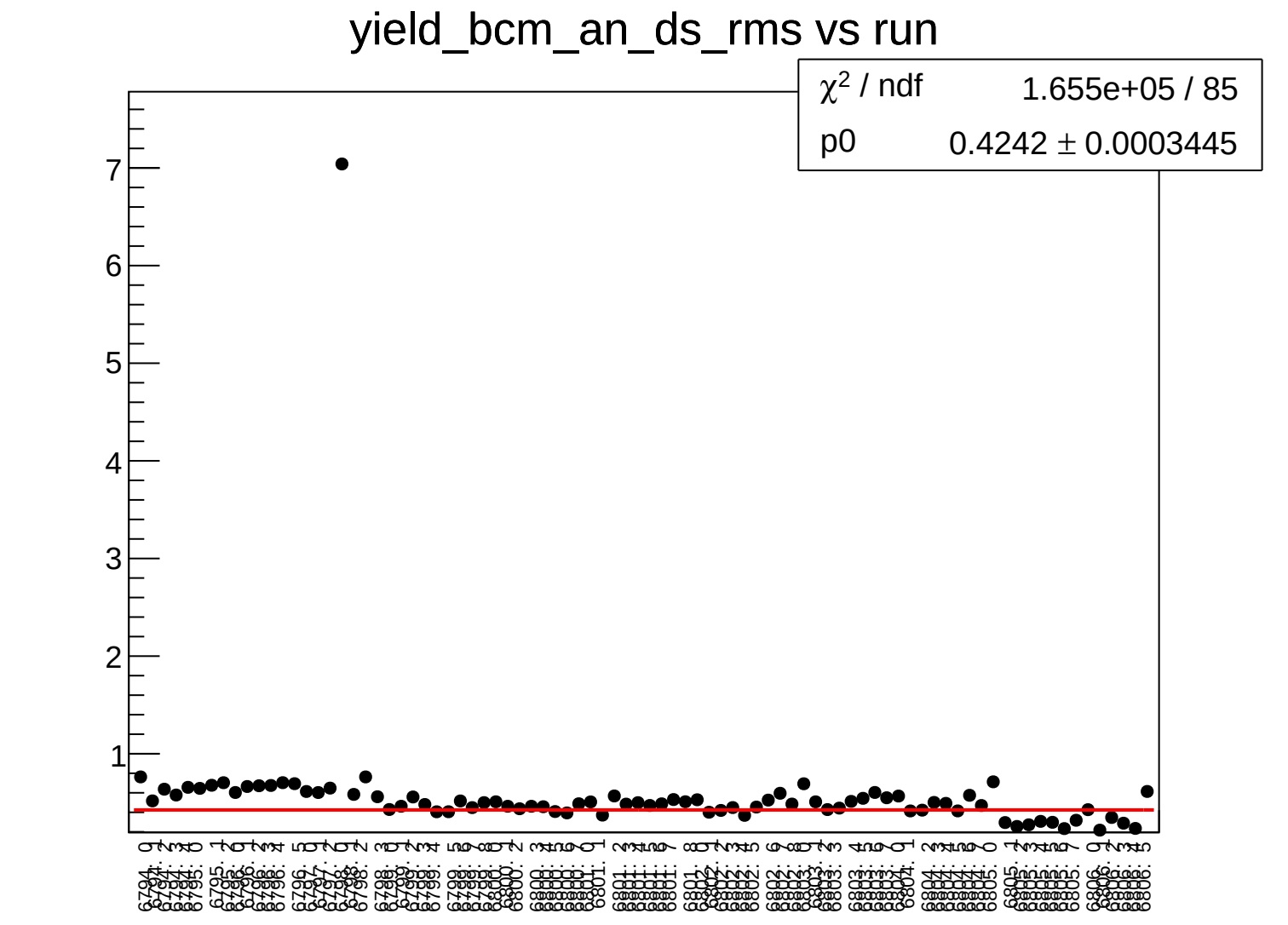

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 4.768e+07 / 85
p0 −3.578e+04 ± 5.985
pull
Entries 86
Mean −111.1
Std Dev 0

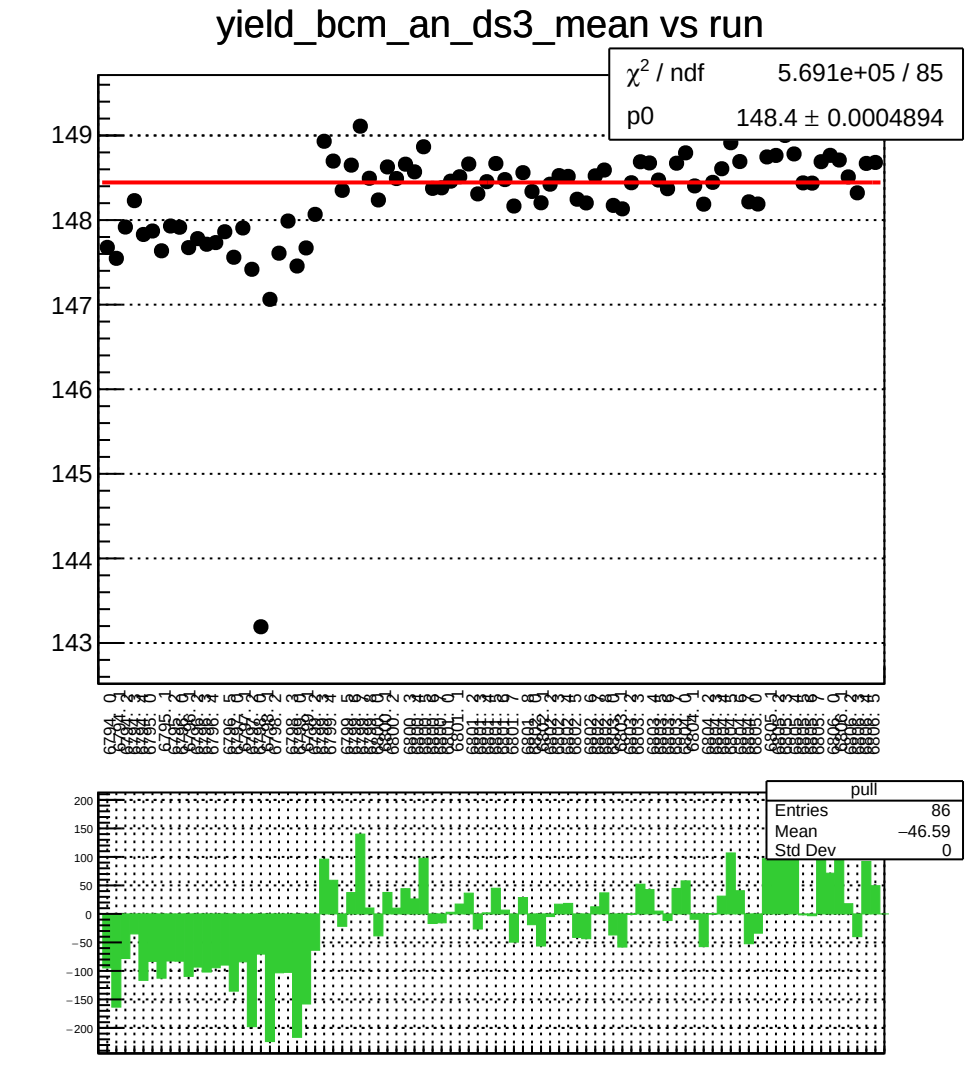

pull1D
Entries 86
Mean 0
Std Dev 0

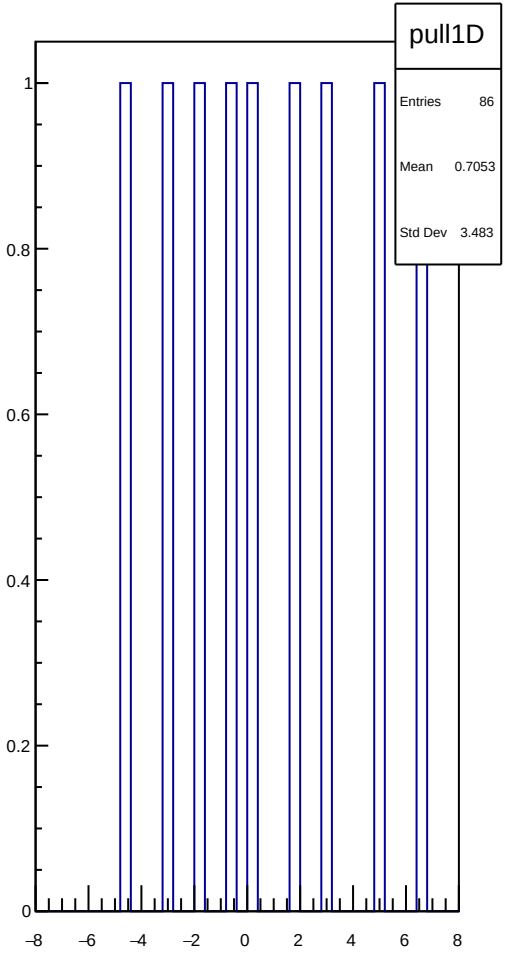

yield_bcm_an_diff_rms vs run
χ^2 / ndf 1.203e+05 / 85
p0 5289 ± 4.232
14000
12000
10000
8000
6000
4000

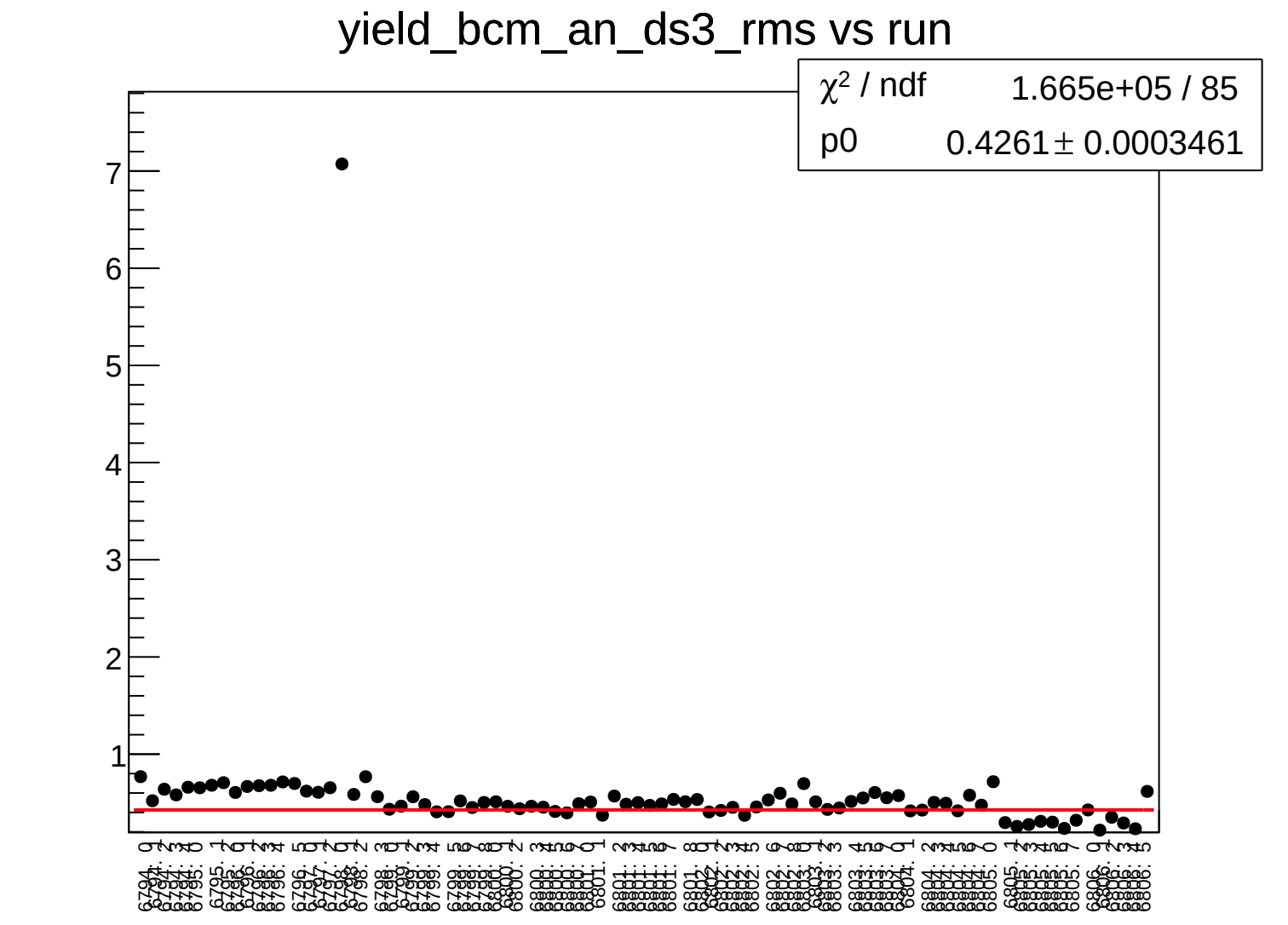

yield_bcm_an_ds_mean vs run
χ² / ndf 5.673e+05 / 85
p0 148.2 ± 0.0004872
149
148
147
146
145
144
143
pull
Entries 86
Mean −46.68
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

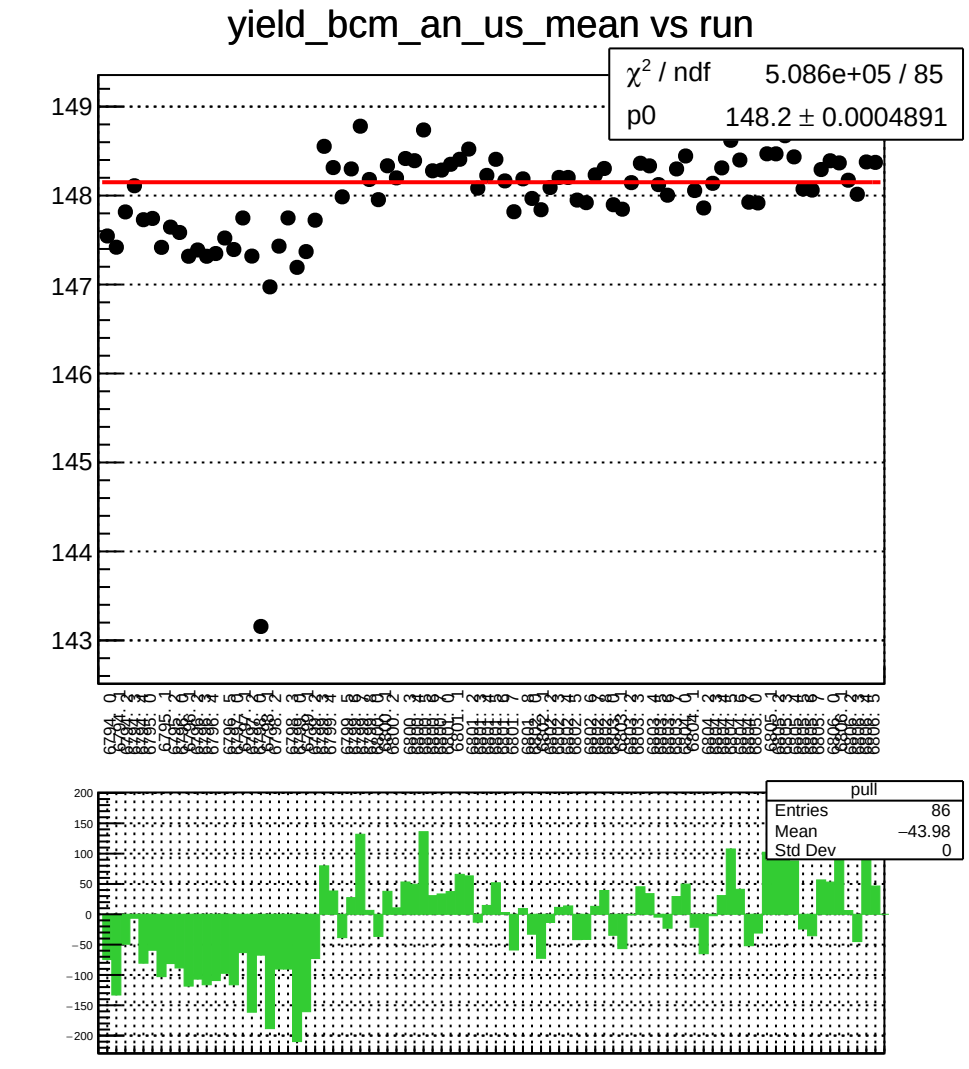

pull1D
Entries 86
Mean 0.06741
Std Dev 4.048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

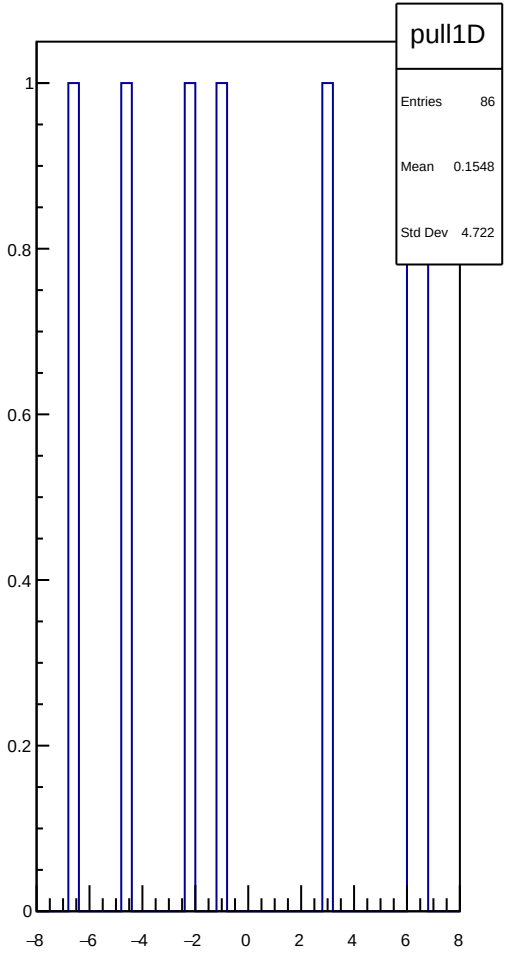

yield_bcm_an_ds_rms vs run
χ^2 / ndf 1.655e+05 / 85
p0 0.4242 ± 0.0003445
7
6
5
4
3
2
1

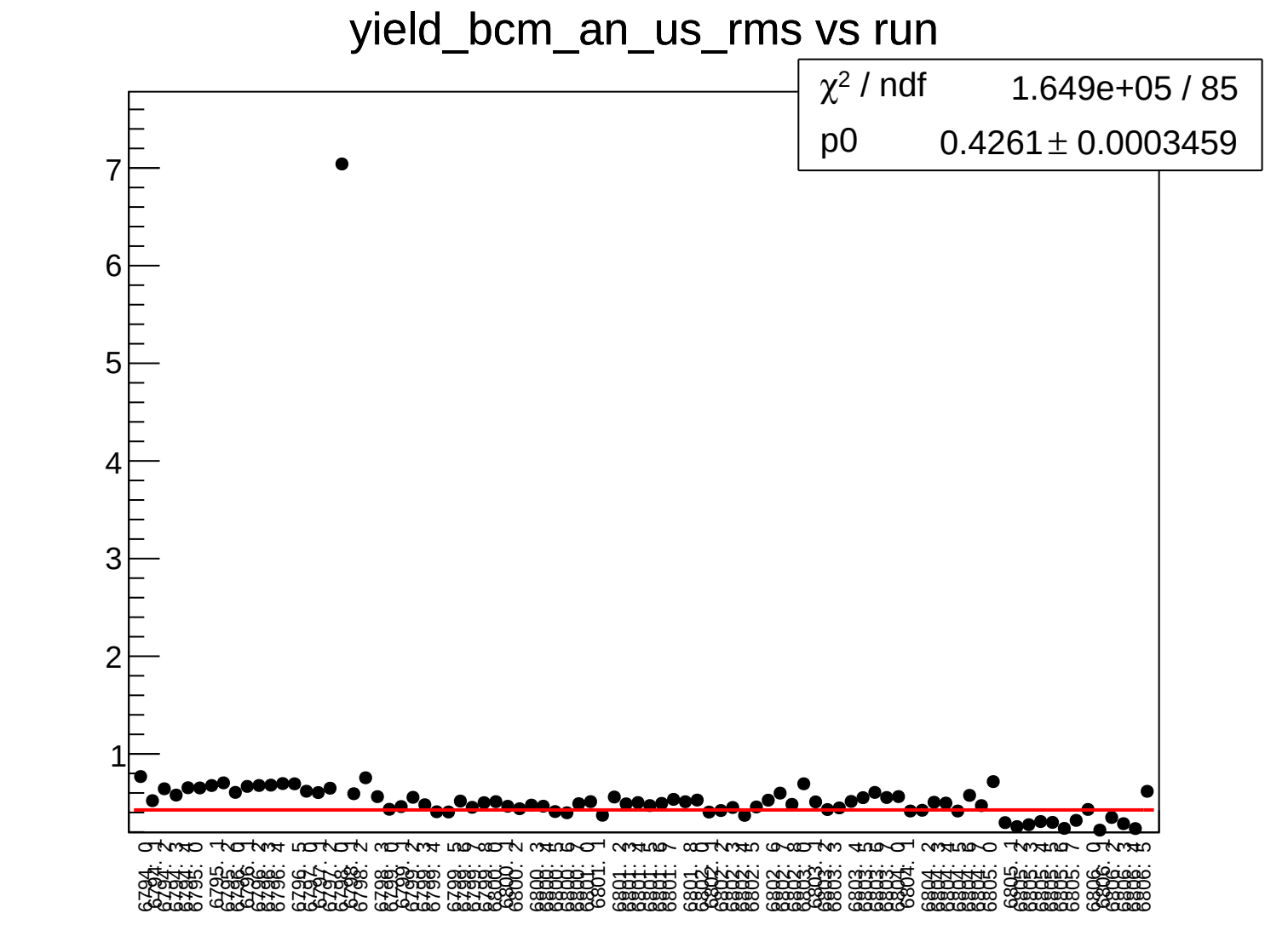

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.691e+05 / 85
p0 148.4 ± 0.0004894
149
148
147
146
145
144
143
pull
Entries 86
Mean −46.59
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

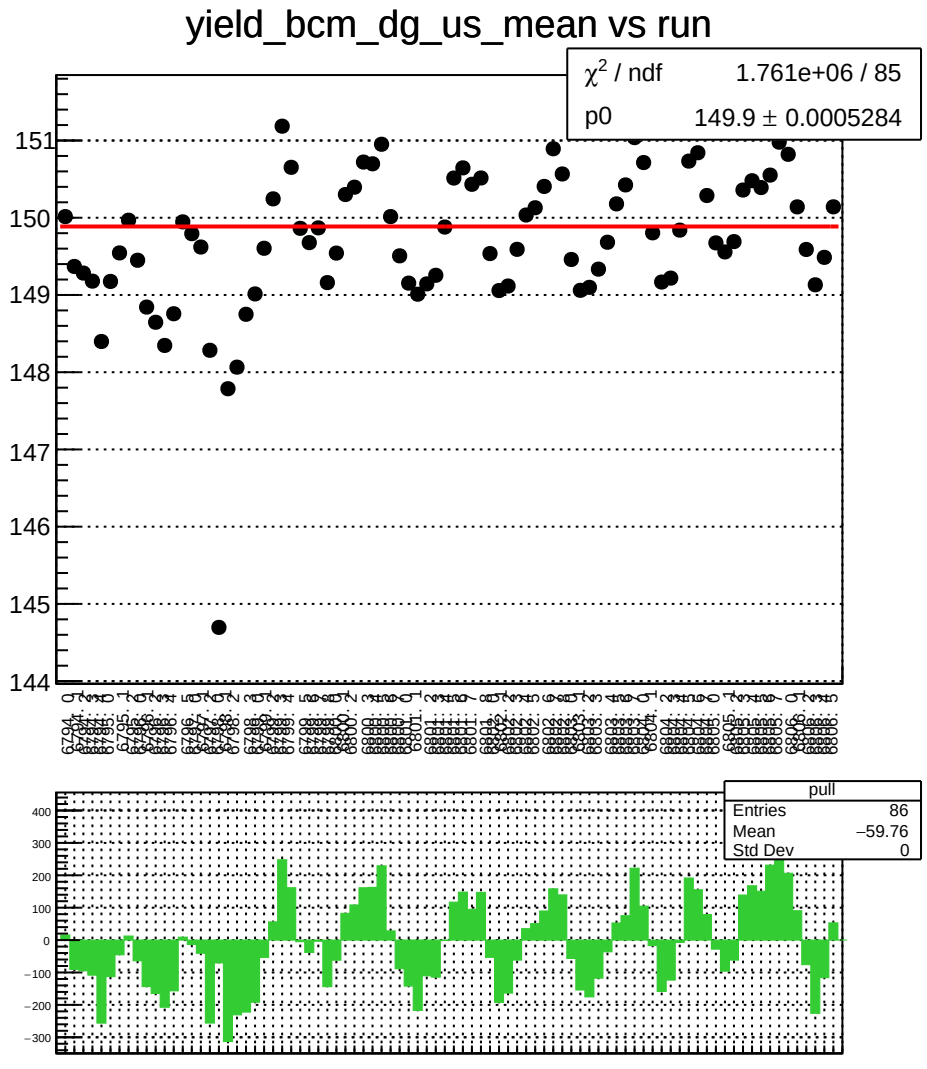

pull1D
Entries 86
Mean 0.7053
Std Dev 3.483
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

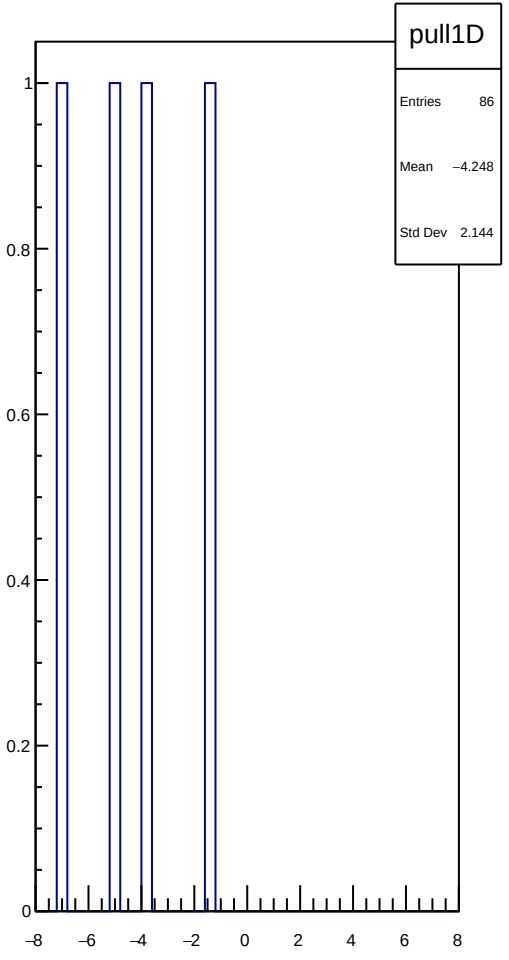

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.665e+05 / 85
p0 0.4261 ± 0.0003461
7
6
5
4
3
2
1

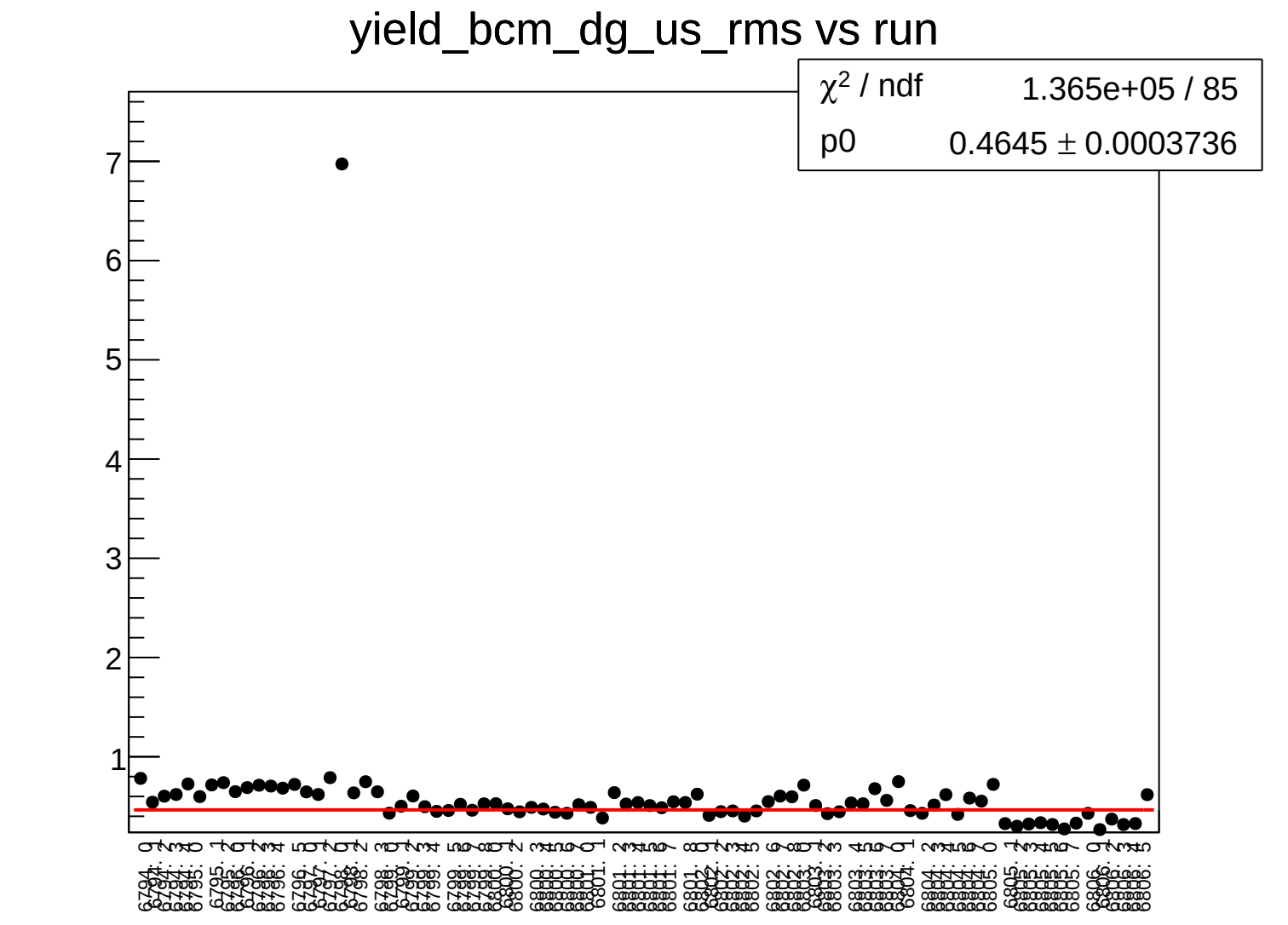

yield_bcm_an_us_mean vs run
χ² / ndf 5.086e+05 / 85
p0 148.2 ± 0.0004891
149
148
147
146
145
144
143
pull
Entries 86
Mean −43.98
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

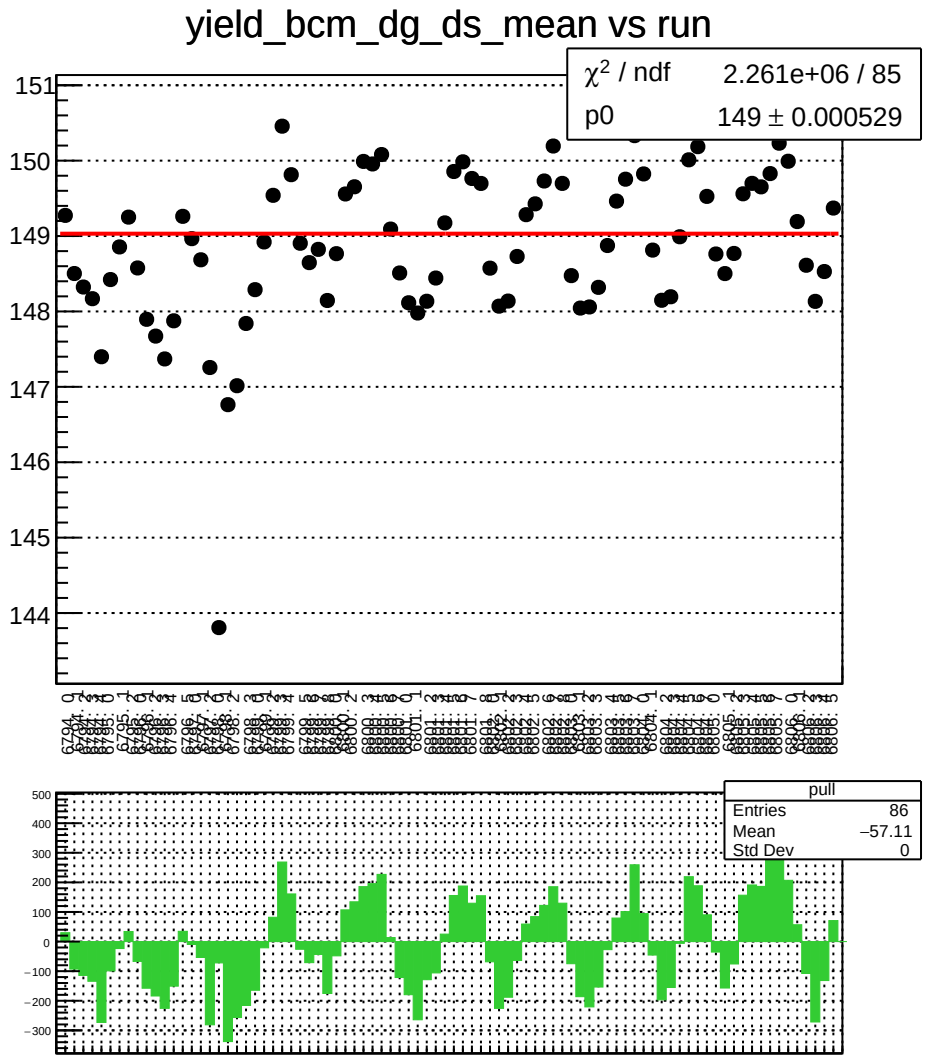

pull1D
Entries 86
Mean 0.1548
Std Dev 4.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

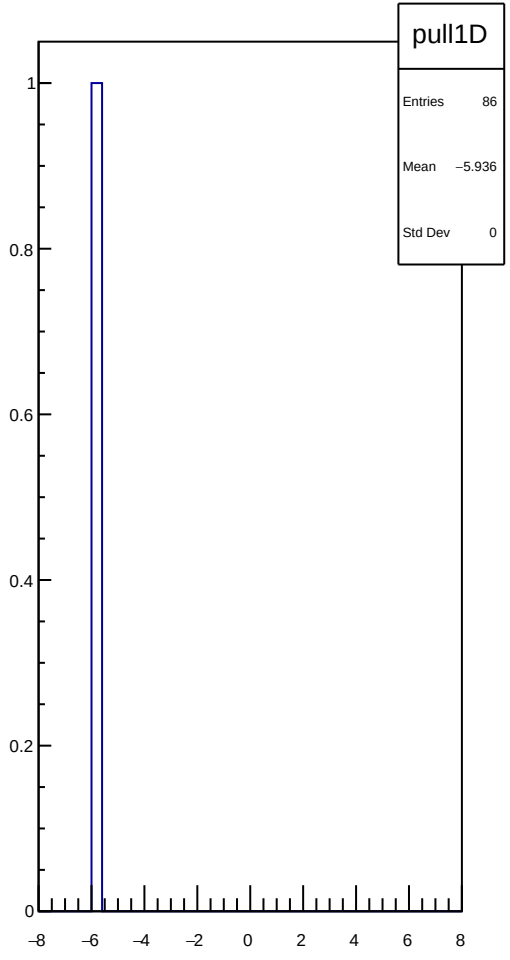

yield_bcm_an_us_rms vs run
χ² / ndf 1.649e+05 / 85
p0 0.4261 ± 0.0003459
7
6
5
4
3
2
1

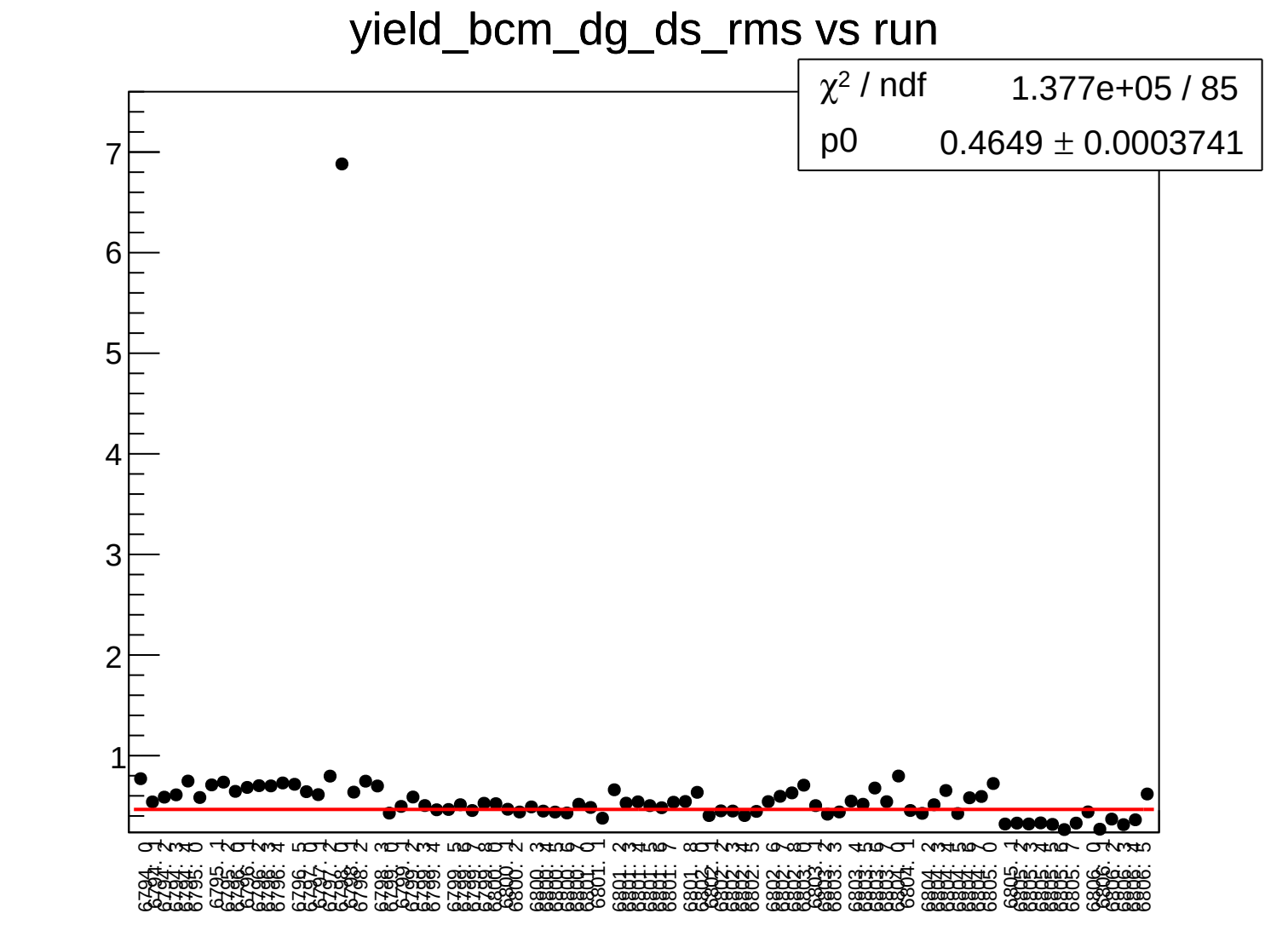

yield_bcm_dg_us_mean vs run
χ² / ndf 1.761e+06 / 85
p0 149.9 ± 0.0005284
151
150
149
148
147
146
145
144
pull
Entries 86
Mean −59.76
Std Dev 0
400
300
200
100
0
−100
−200
−300

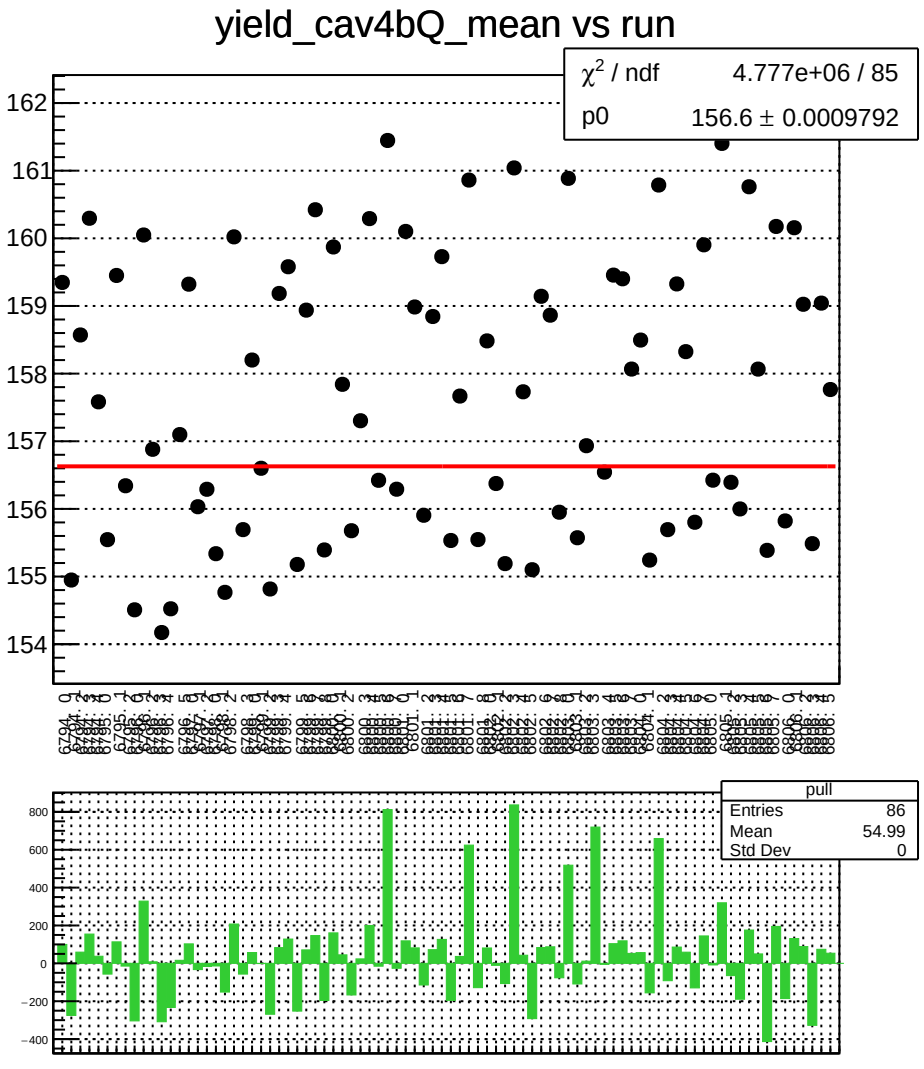

pull1D
Entries 86
Mean −4.248
Std Dev 2.144
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

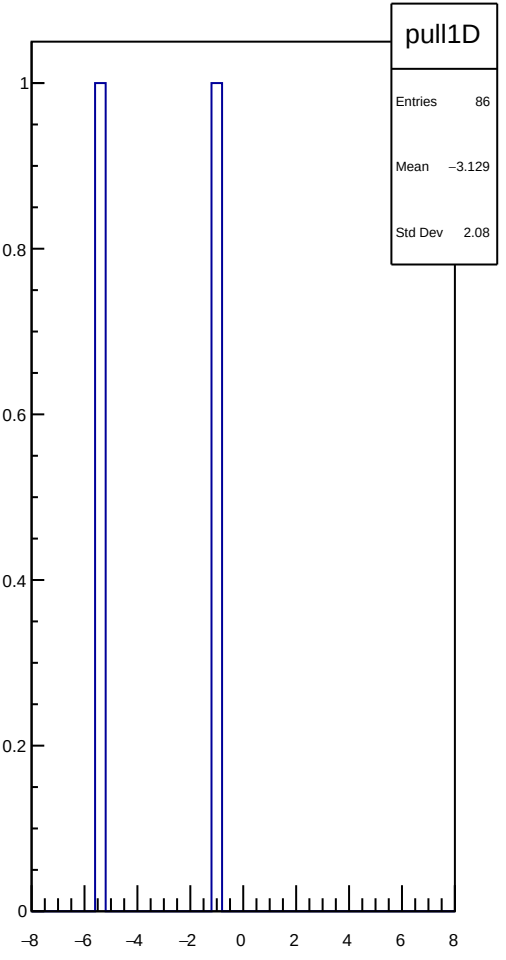

yield_bcm_dg_us_rms vs run
χ² / ndf 1.365e+05 / 85
p0 0.4645 ± 0.0003736
7
6
5
4
3
2
1

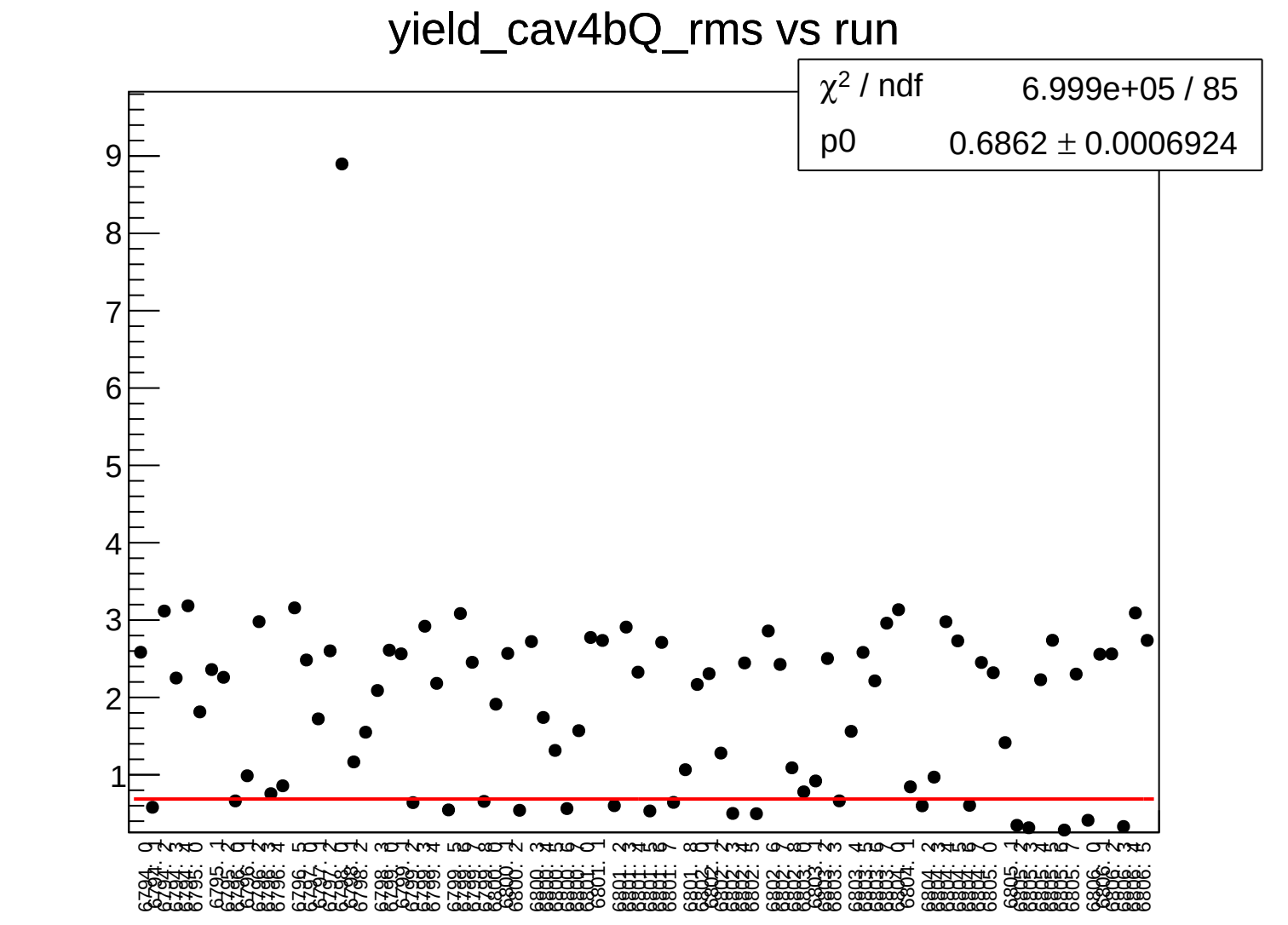

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.261e+06 / 85
p0 149 ± 0.000529
151
150
149
148
147
146
145
144
pull
Entries 86
Mean −57.11
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

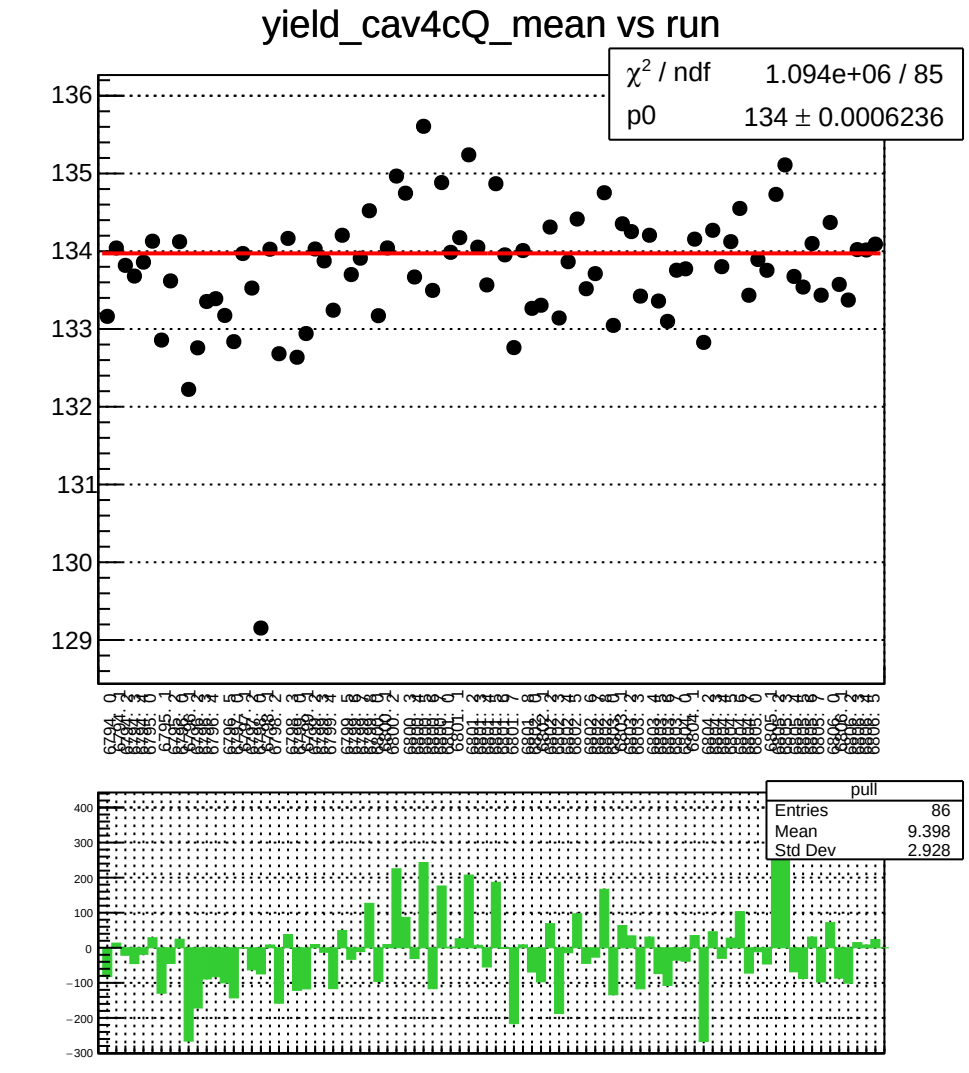

pull1D
Entries 86
Mean −5.936
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

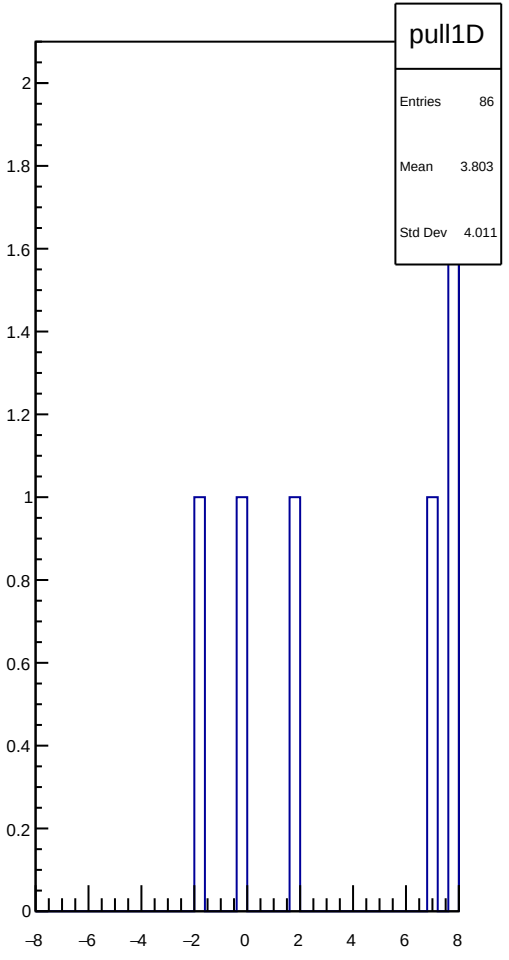

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.377e+05 / 85
p0 0.4649 ± 0.0003741
7
6
5
4
3
2
1

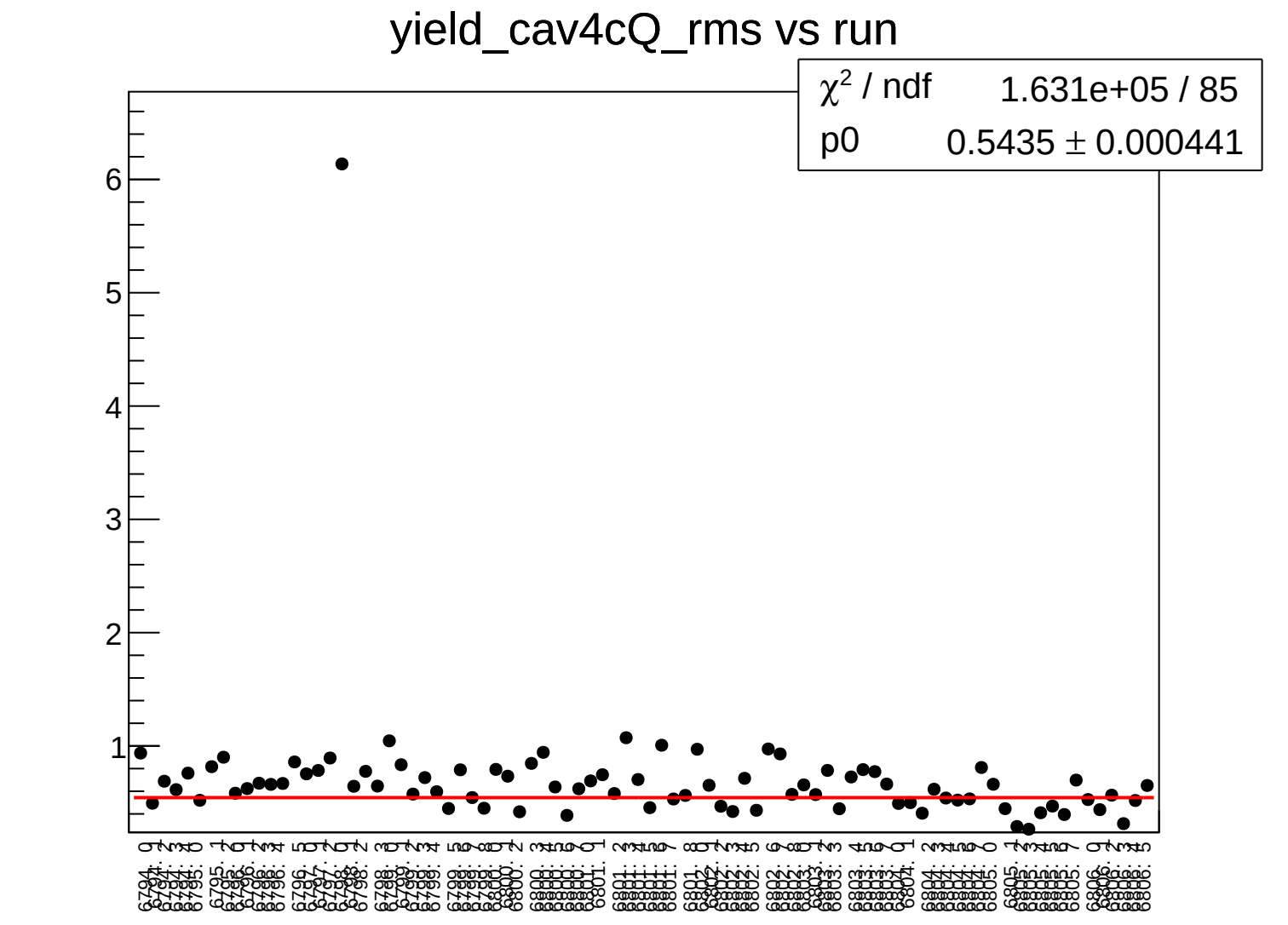

yield_cav4bQ_mean vs run
χ² / ndf 4.777e+06 / 85
p0 156.6 ± 0.0009792
pull
Entries 86
Mean 54.99
Std Dev 0

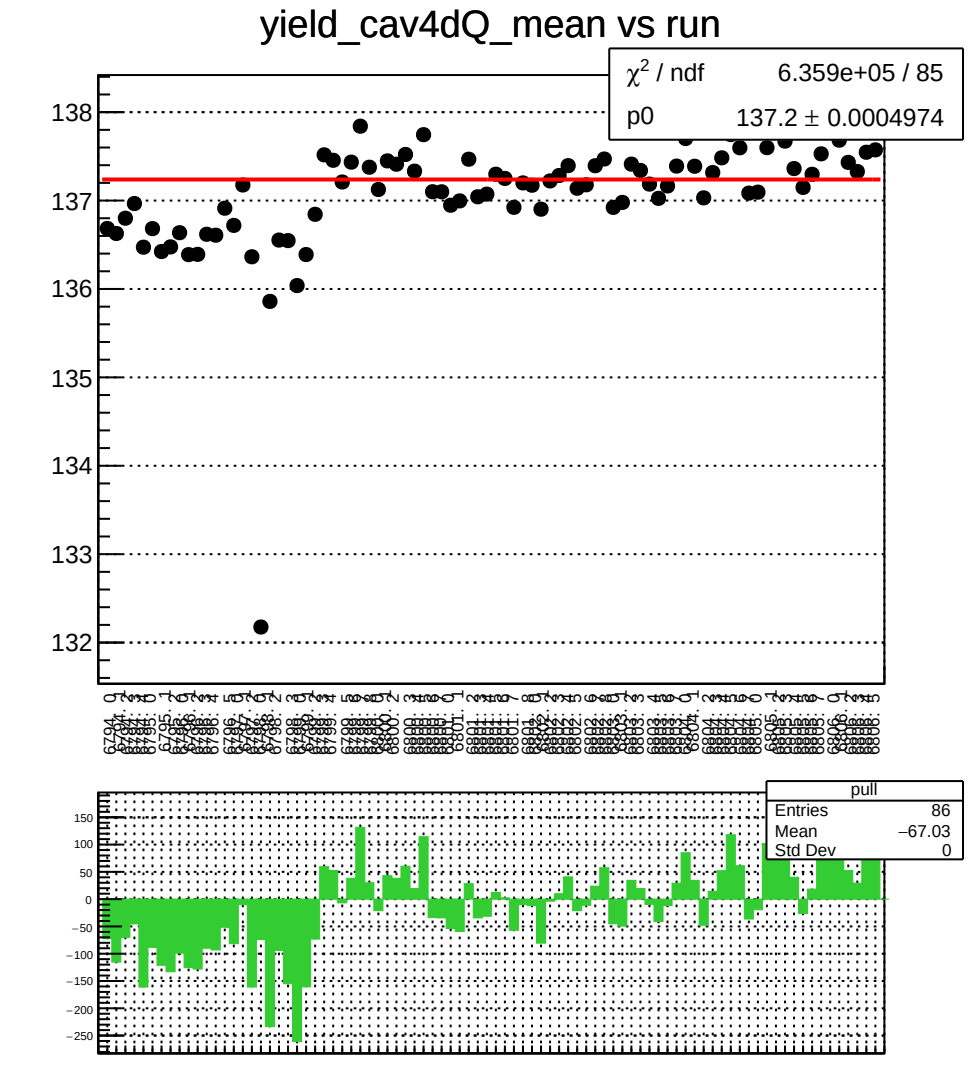

pull1D
Entries 86
Mean −3.129
Std Dev 2.08

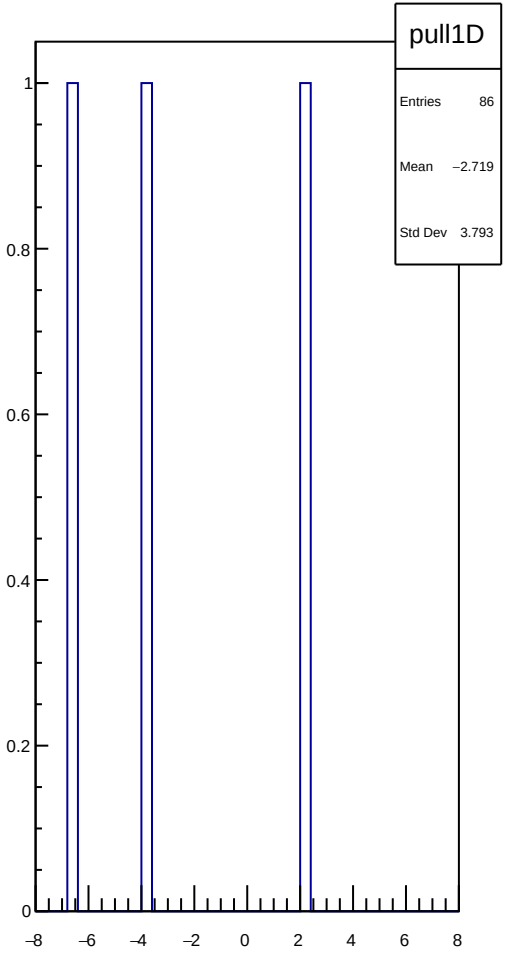

yield_cav4bQ_rms vs run
χ2 / ndf 6.999e+05 / 85
p0 0.6862 ± 0.0006924
9
8
7
6
5
4
3
2
1

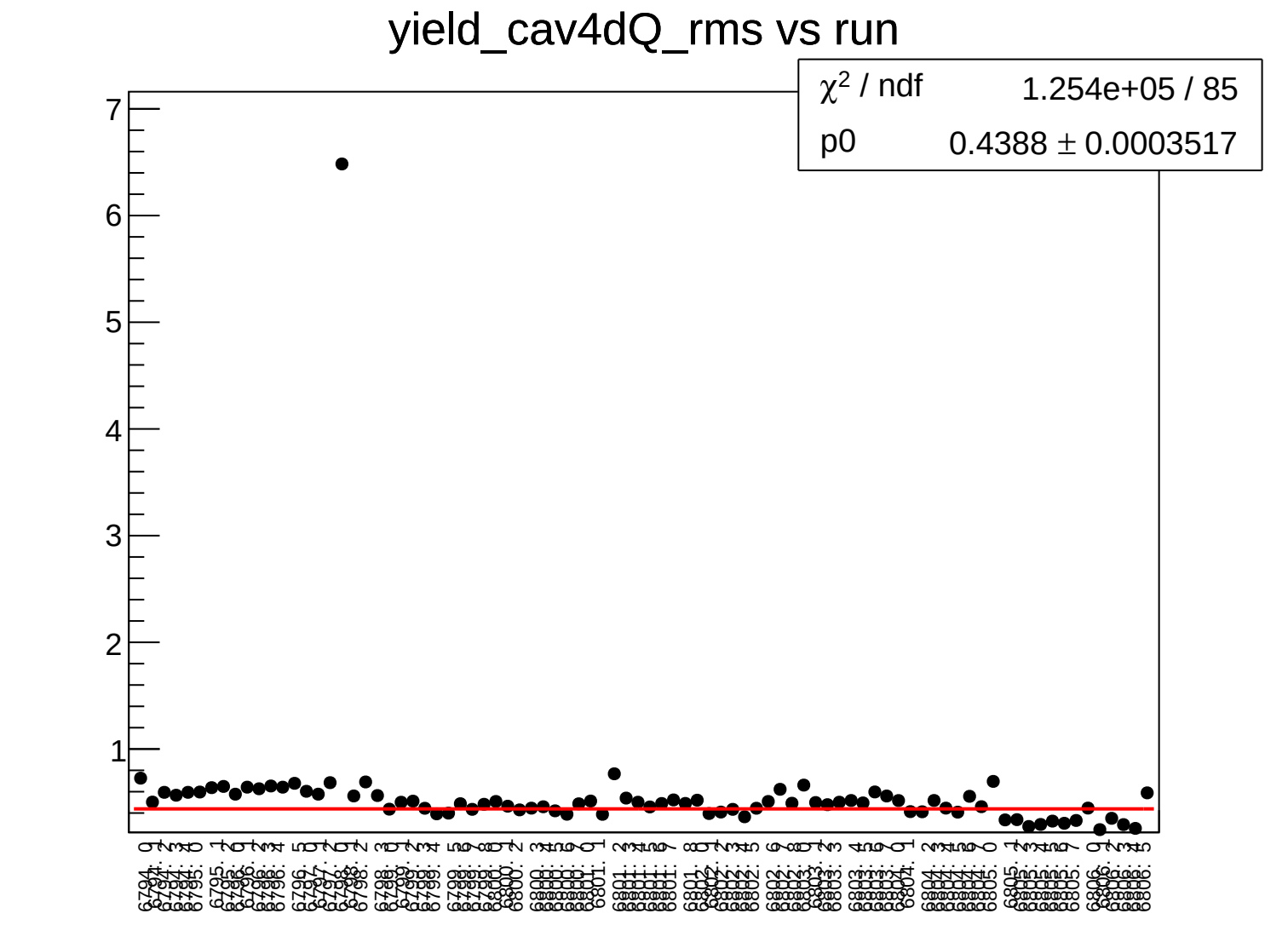

yield_cav4cQ_mean vs run
χ² / ndf 1.094e+06 / 85
p0 134 ± 0.0006236
pull
Entries 86
Mean 9.398
Std Dev 2.928

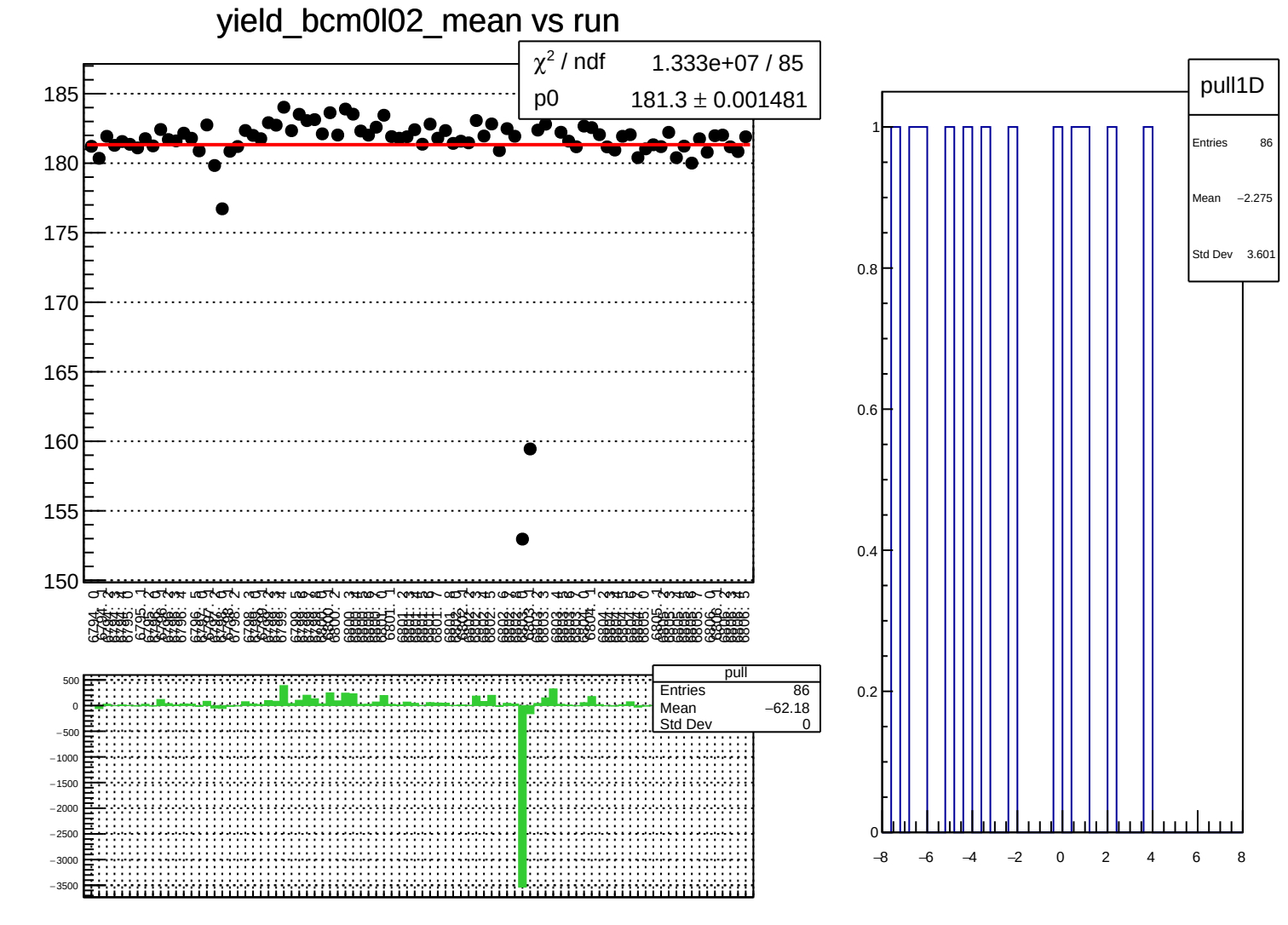

pull1D
Entries 86
Mean 3.803
Std Dev 4.011

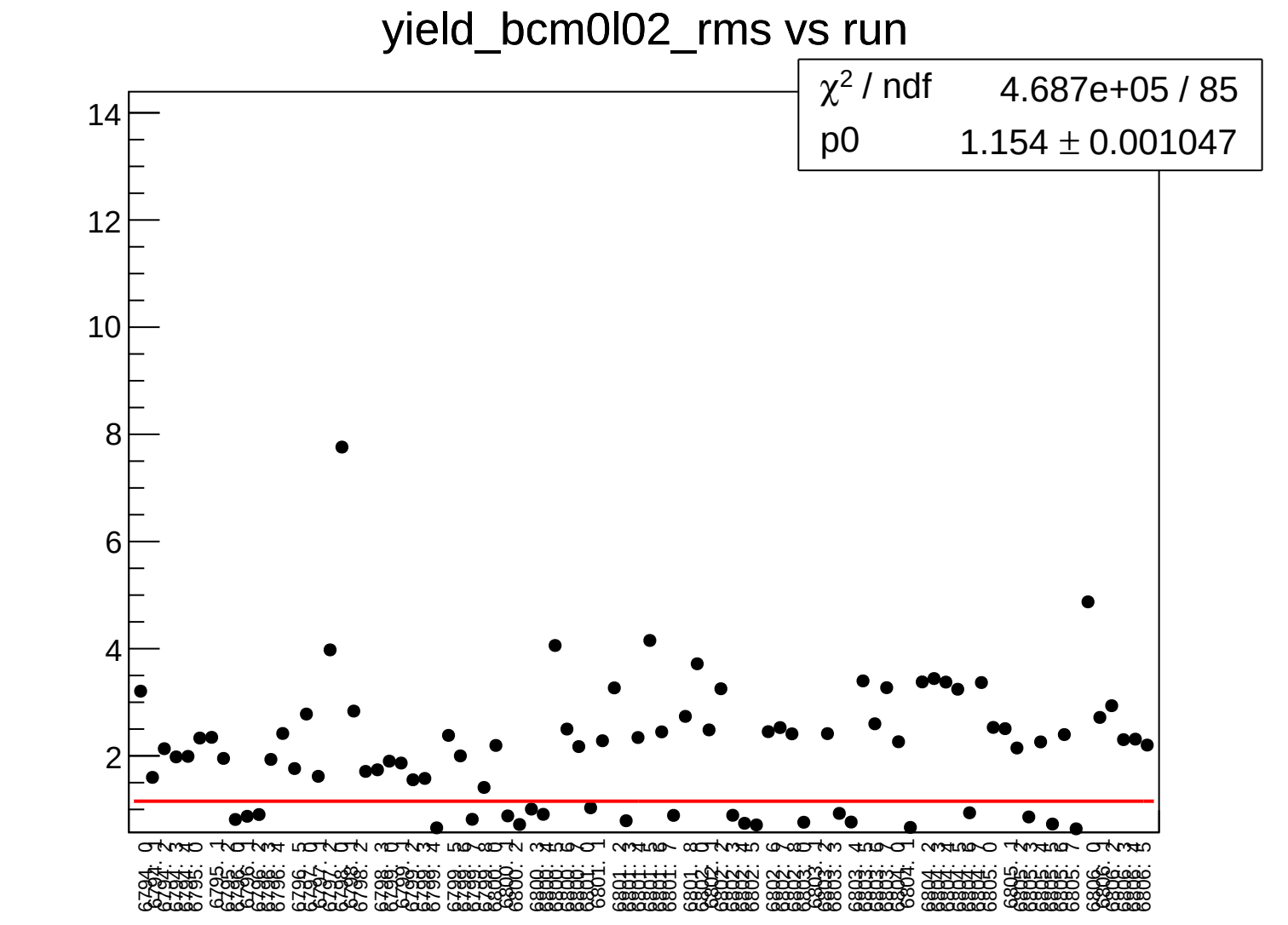

yield_cav4cQ_rms vs run
χ² / ndf 1.631e+05 / 85
p0 0.5435 ± 0.000441
6
5
4
3
2
1

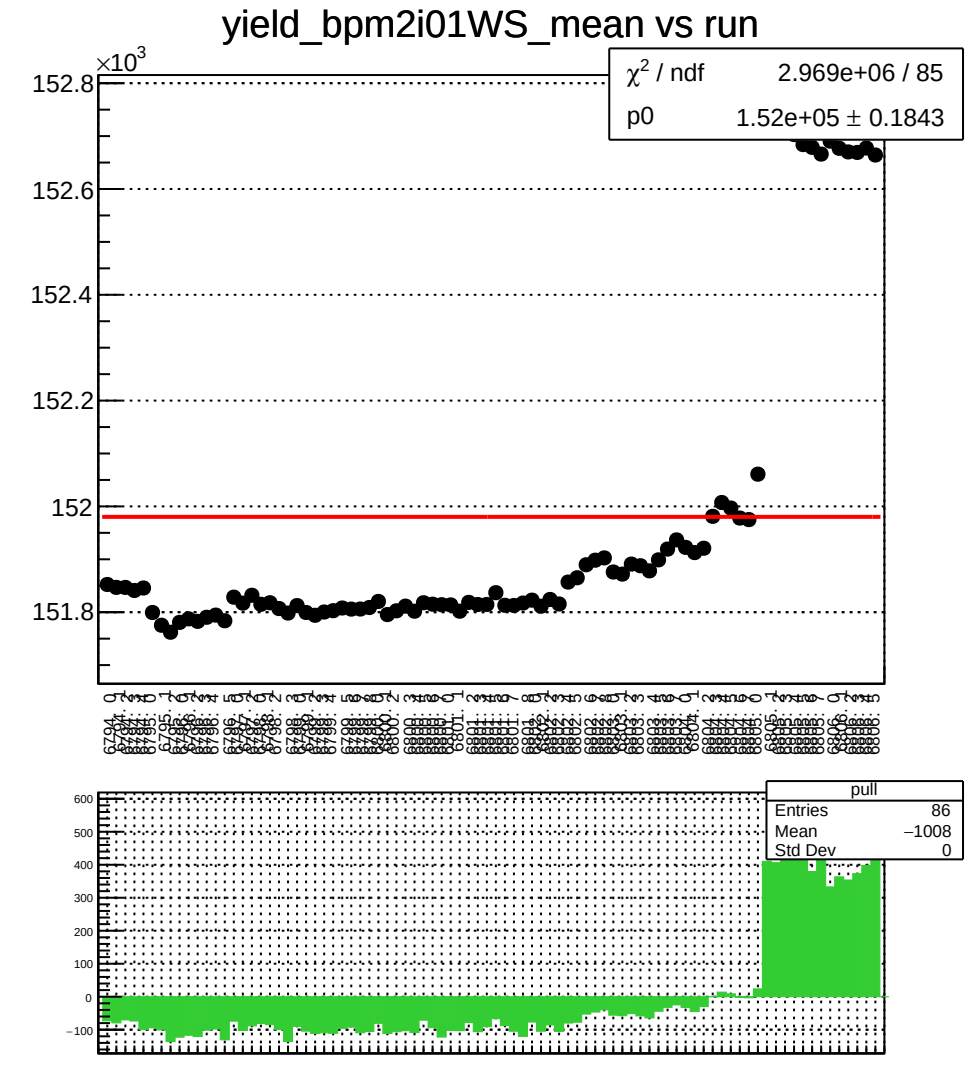

yield_cav4dQ_mean vs run
χ² / ndf 6.359e+05 / 85
p0 137.2 ± 0.0004974
138
137
136
135
134
133
132
pull
Entries 86
Mean −67.03
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

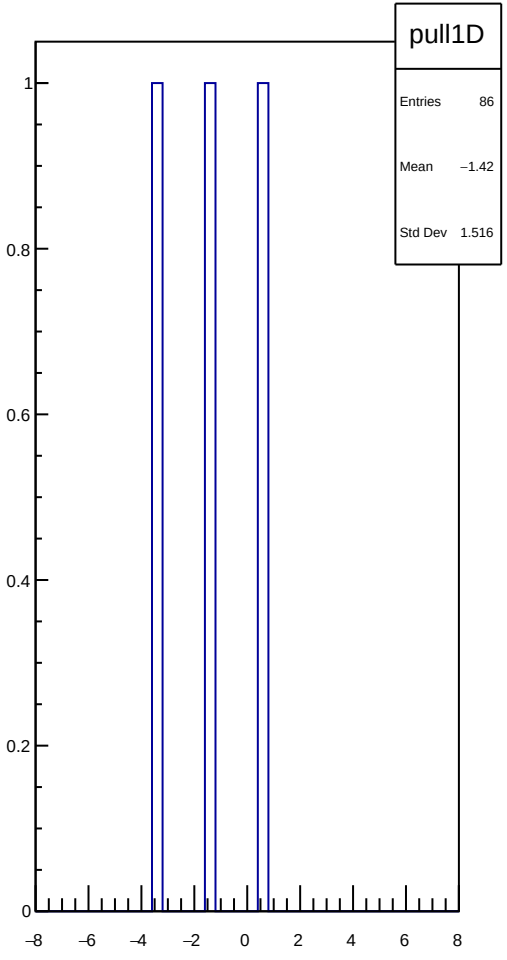

pull1D
Entries 86
Mean −2.719
Std Dev 3.793
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

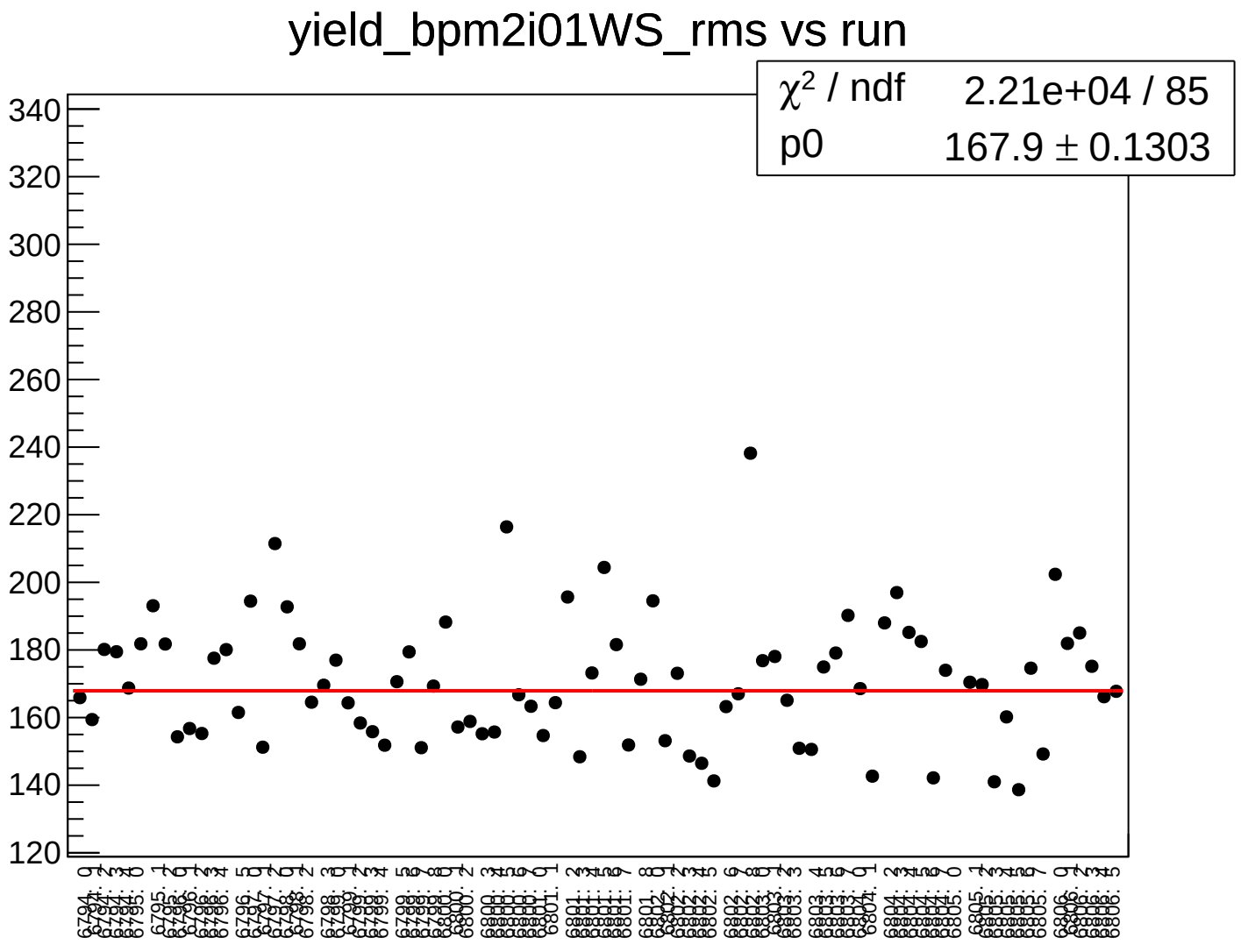

yield_cav4dQ_rms vs run
χ² / ndf 1.254e+05 / 85
p0 0.4388 ± 0.0003517
7
6
5
4
3
2
1

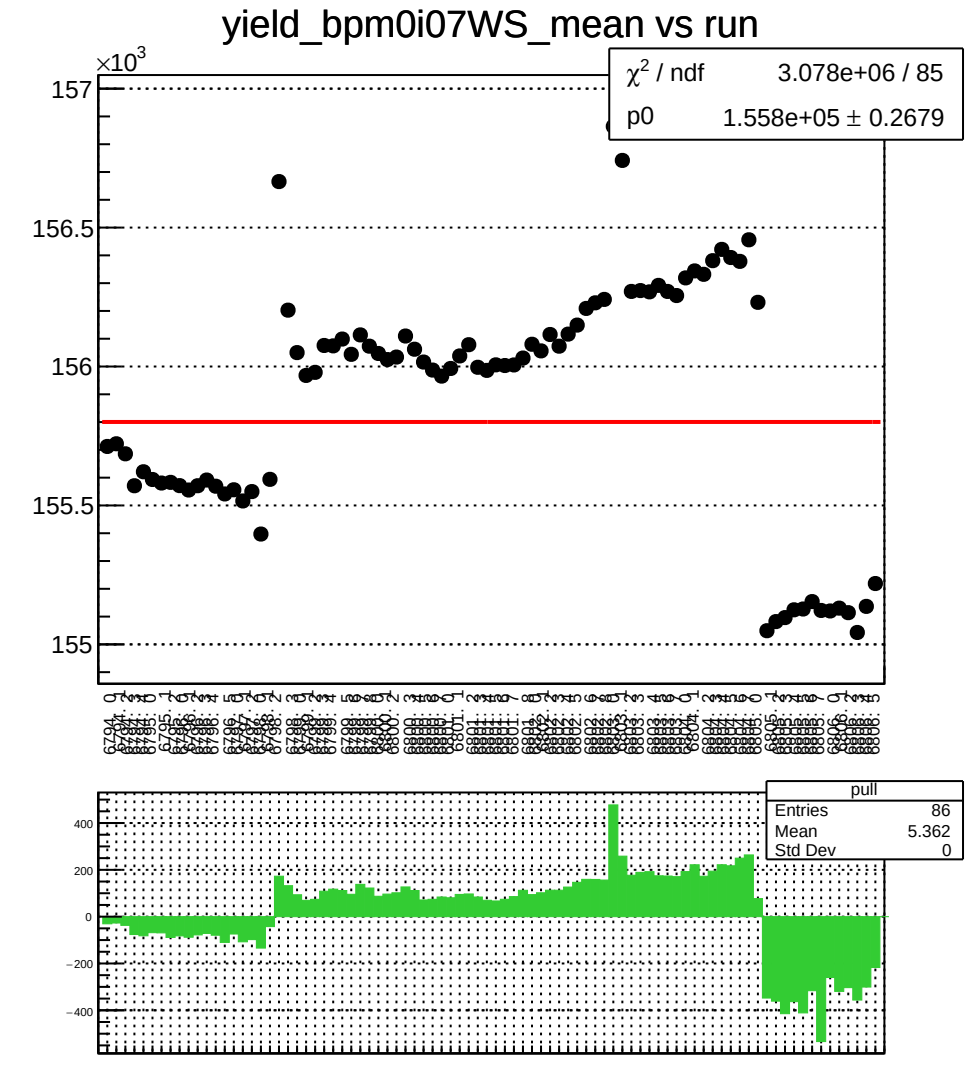

yield_bcm0l02_mean vs run
χ² / ndf 1.333e+07 / 85
p0 181.3 ± 0.001481
185
180
175
170
165
160
155
150
pull
Entries 86
Mean −62.18
Std Dev 0
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500
pull1D
Entries 86
Mean −2.275
Std Dev 3.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

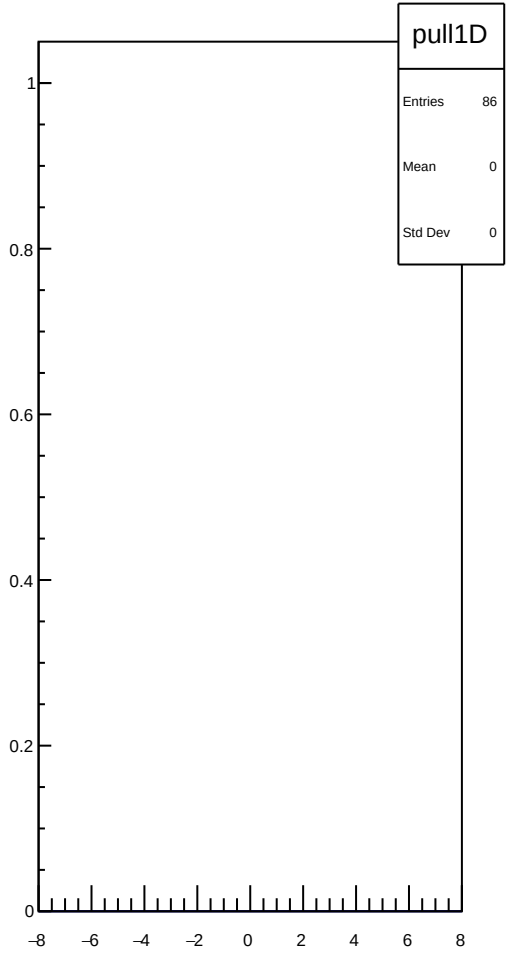

yield_bcm0l02_rms vs run
χ^2 / ndf 4.687e+05 / 85
p0 1.154 ± 0.001047
14
12
10
8
6
4
2

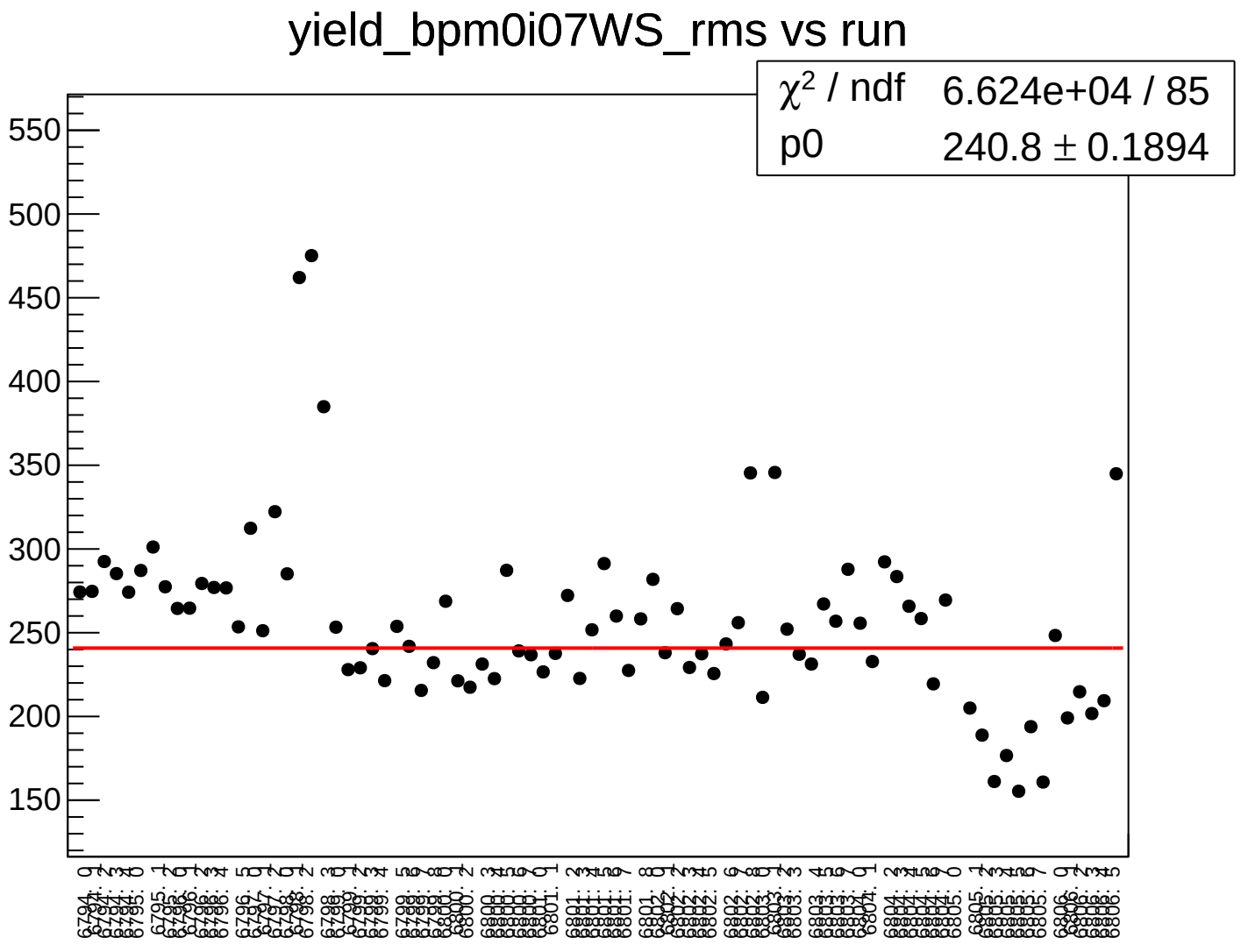

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.969e+06 / 85
p0 1.52e+05 ± 0.1843
152.8
152.6
152.4
152.2
152
151.8
pull
Entries 86
Mean −1008
Std Dev 0
600
500
400
300
200
100
0
−100

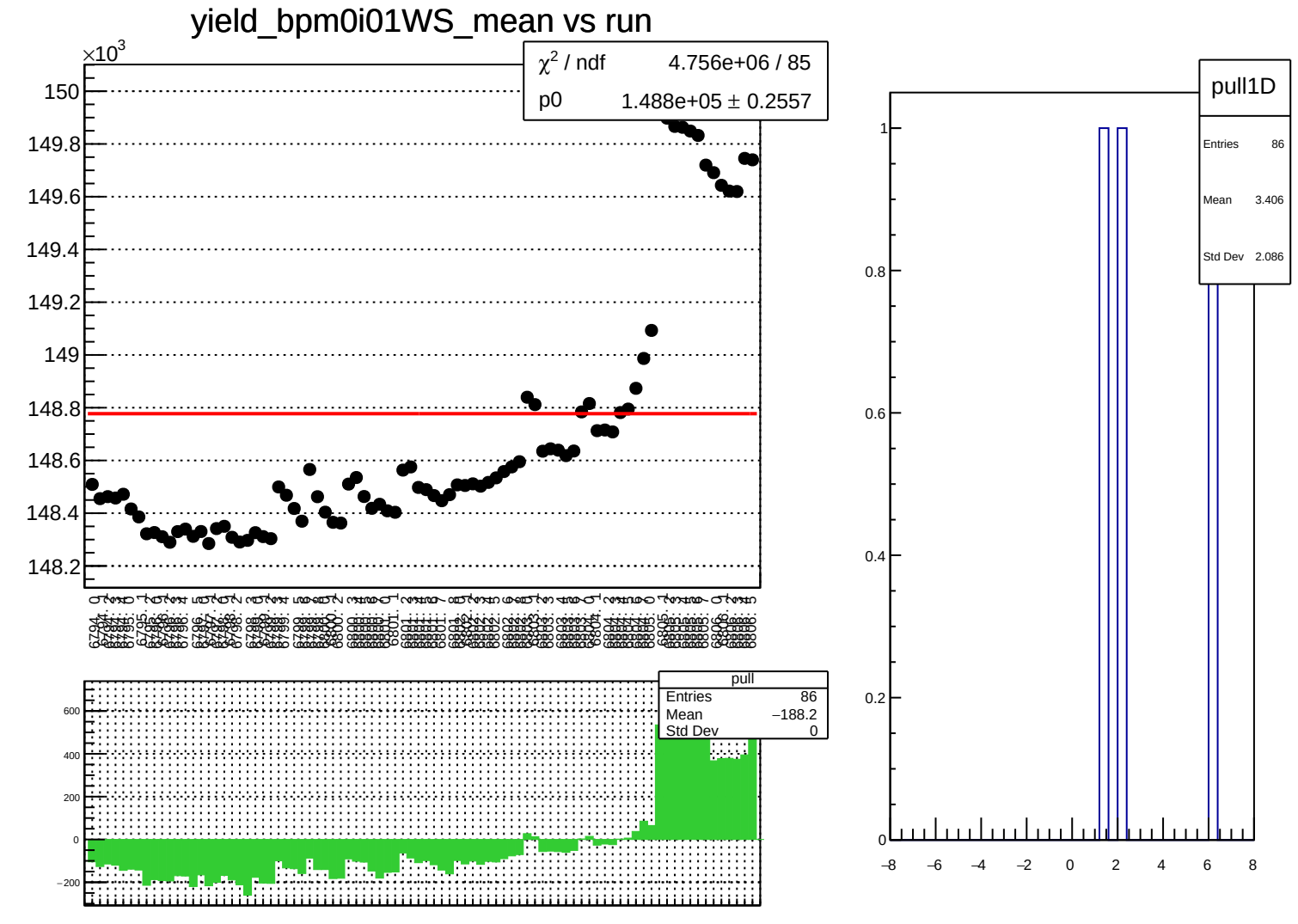

pull1D
Entries 86
Mean −1.42
Std Dev 1.516
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

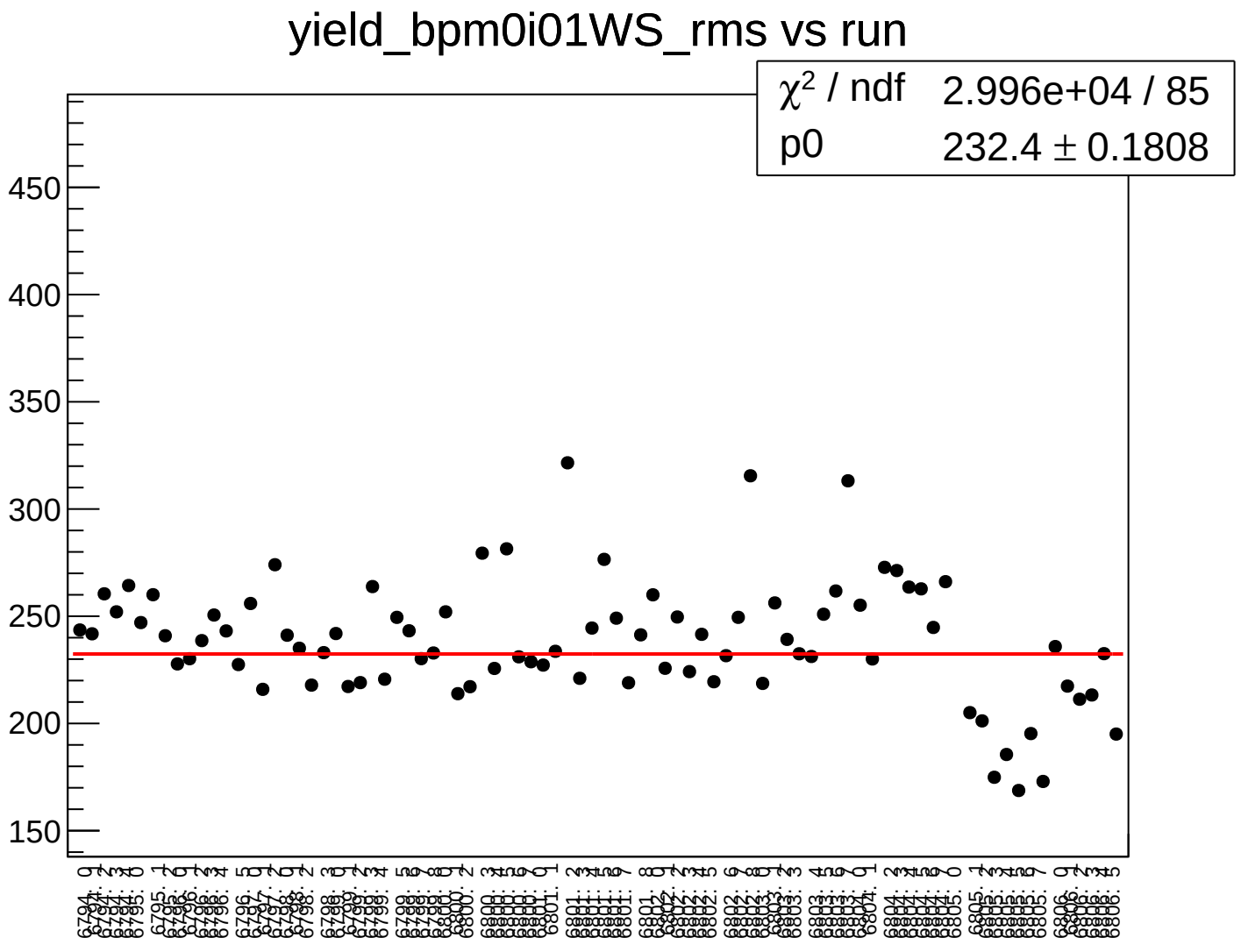

yield_bpm2i01WS_rms vs run
χ² / ndf 2.21e+04 / 85
p0 167.9 ± 0.1303
340
320
300
280
260
240
220
200
180
160
140
120

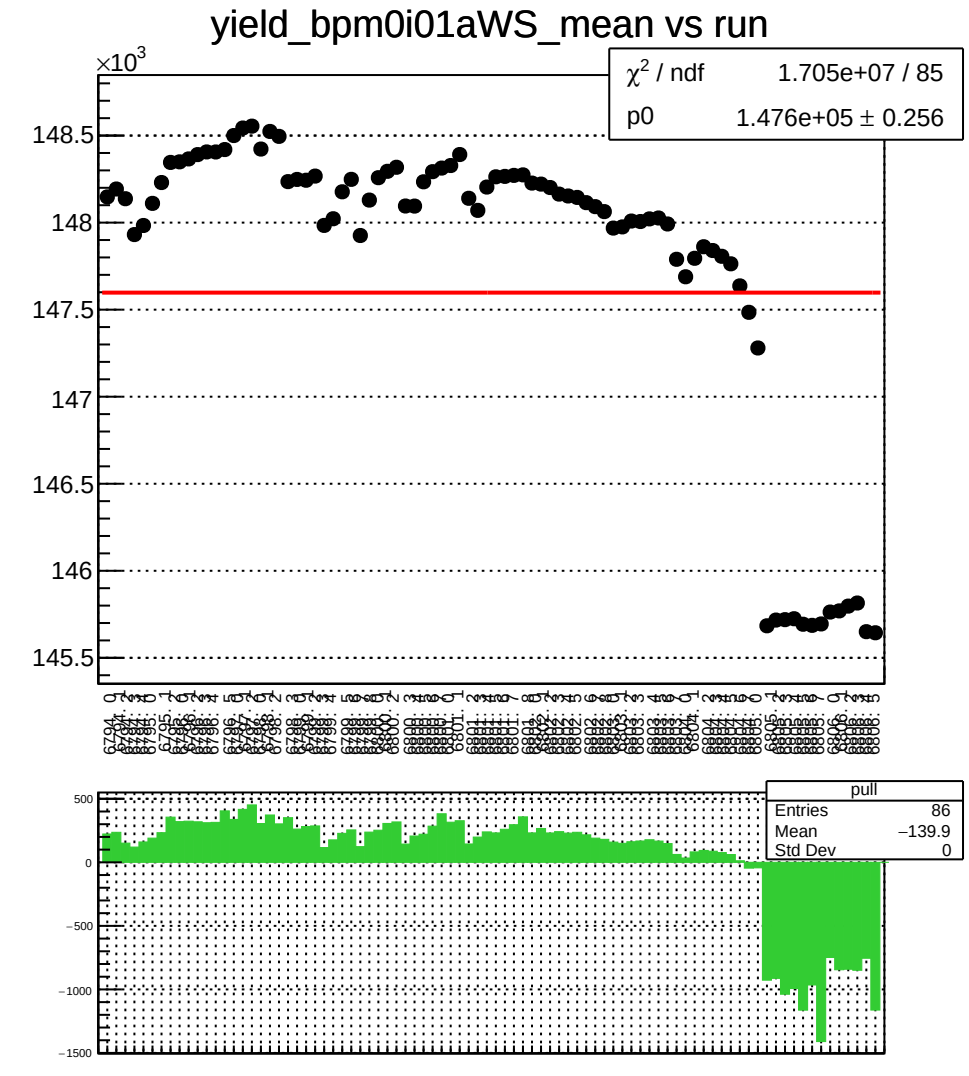

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.078e+06 / 85
p0 1.558e+05 ± 0.2679
157
156.5
156
155.5
155
pull
Entries 86
Mean 5.362
Std Dev 0
400
200
0
−200
−400

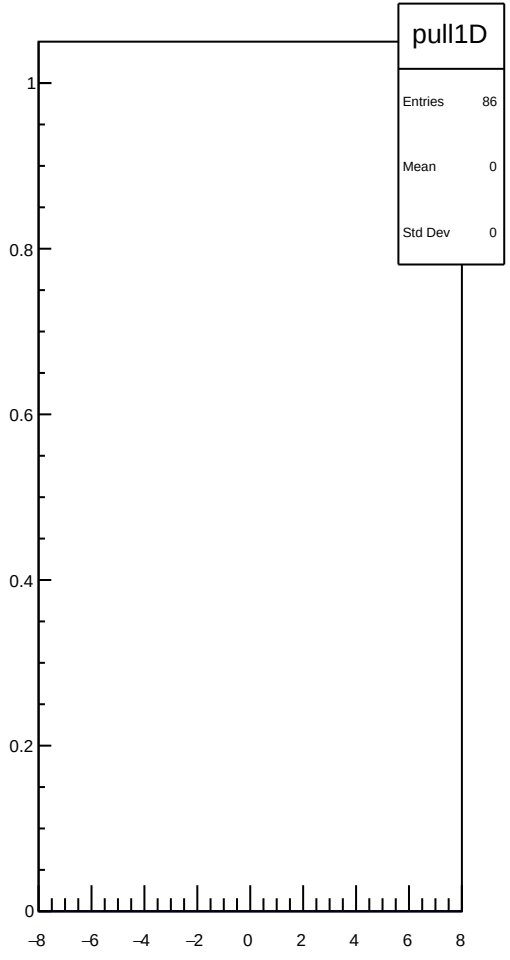

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

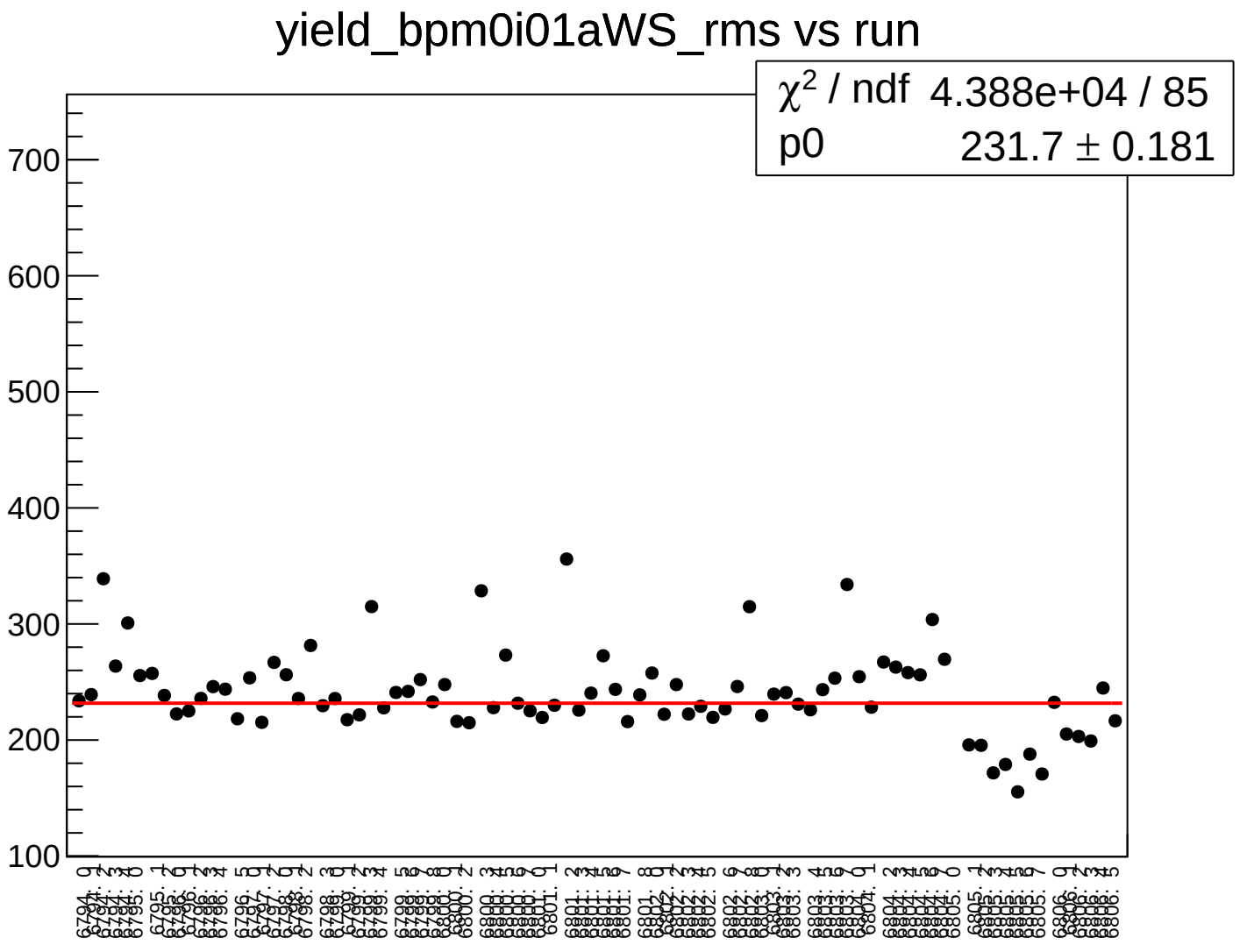

yield_bpm0i07WS_rms vs run
χ² / ndf 6.624e+04 / 85
p0 240.8 ± 0.1894
550
500
450
400
350
300
250
200
150

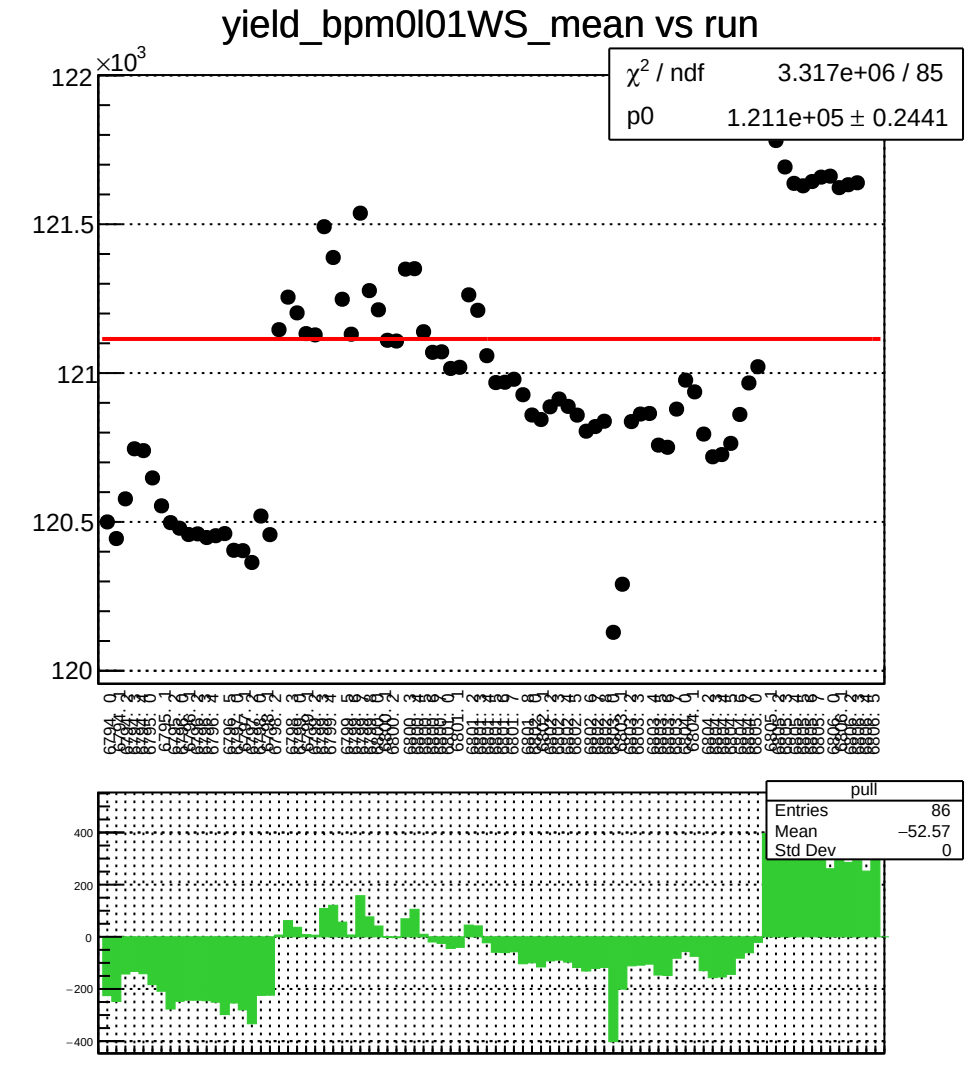

yield_bpm0i01WS_mean vs run
χ² / ndf 4.756e+06 / 85
p0 1.488e+05 ± 0.2557
×10³
150
149.8
149.6
149.4
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 86
Mean −188.2
Std Dev 0
600
400
200
0
−200
pull1D
Entries 86
Mean 3.406
Std Dev 2.086
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

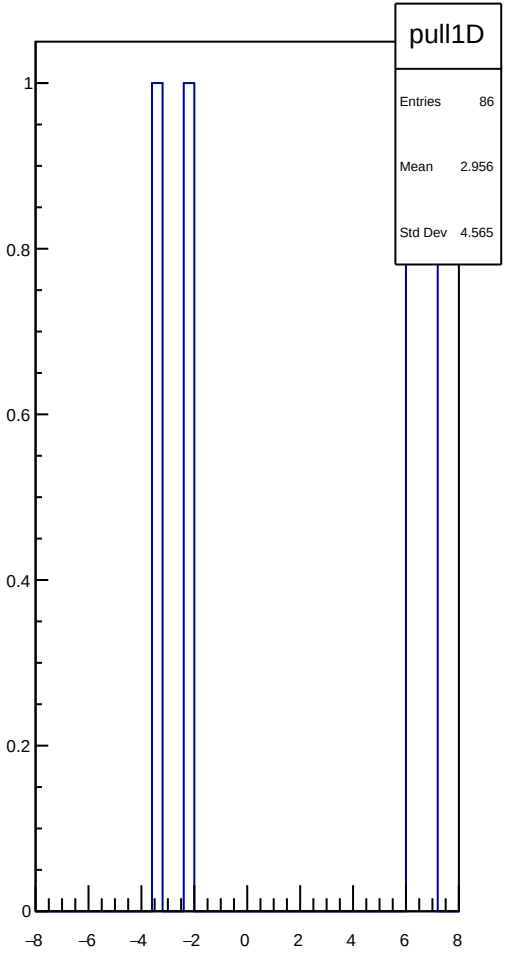

yield_bpm0i01WS_rms vs run
χ² / ndf 2.996e+04 / 85
p0 232.4 ± 0.1808
450
400
350
300
250
200
150

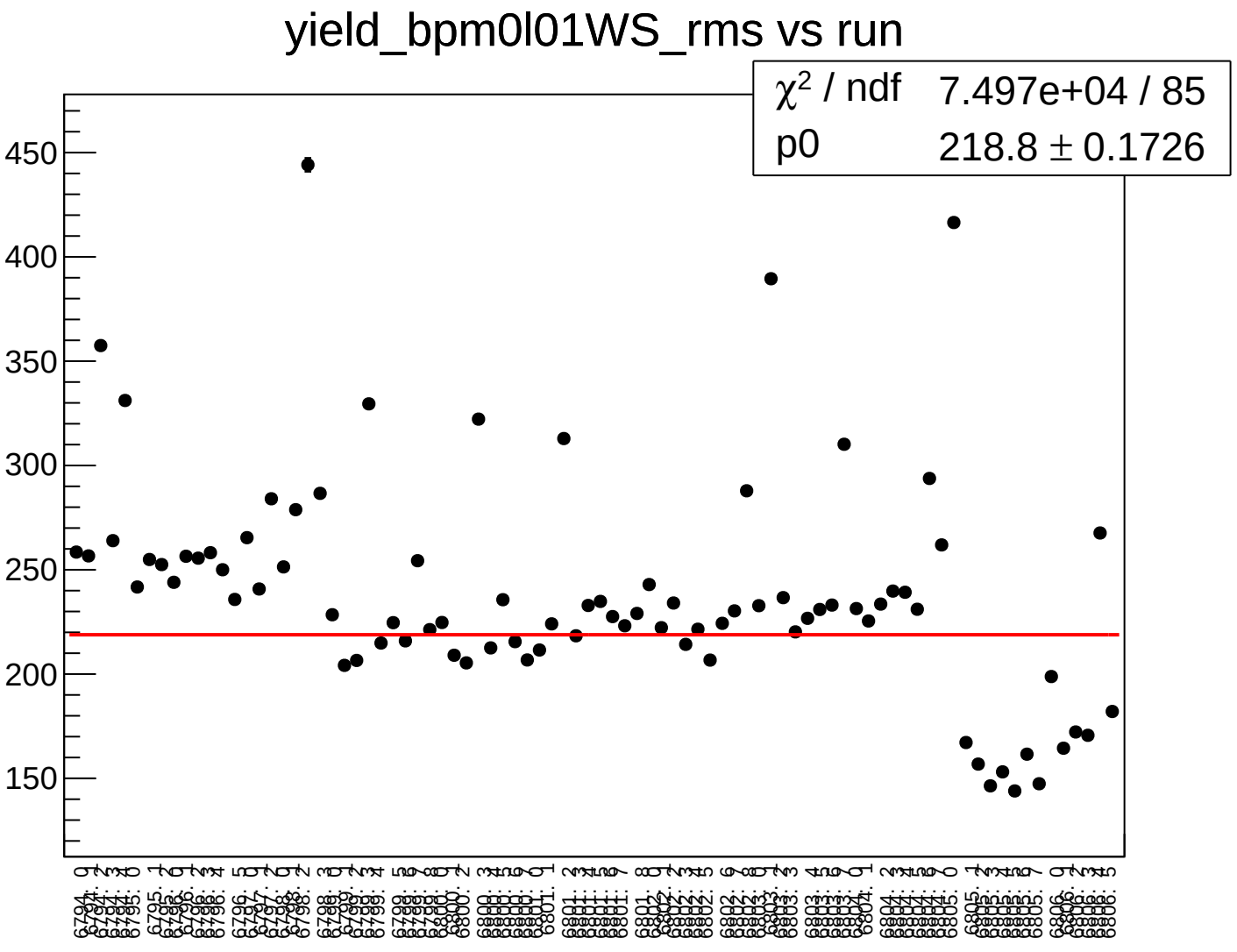

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.705e+07 / 85
p0 1.476e+05 ± 0.256
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 86
Mean −139.9
Std Dev 0
500
0
−500
−1000
−1500

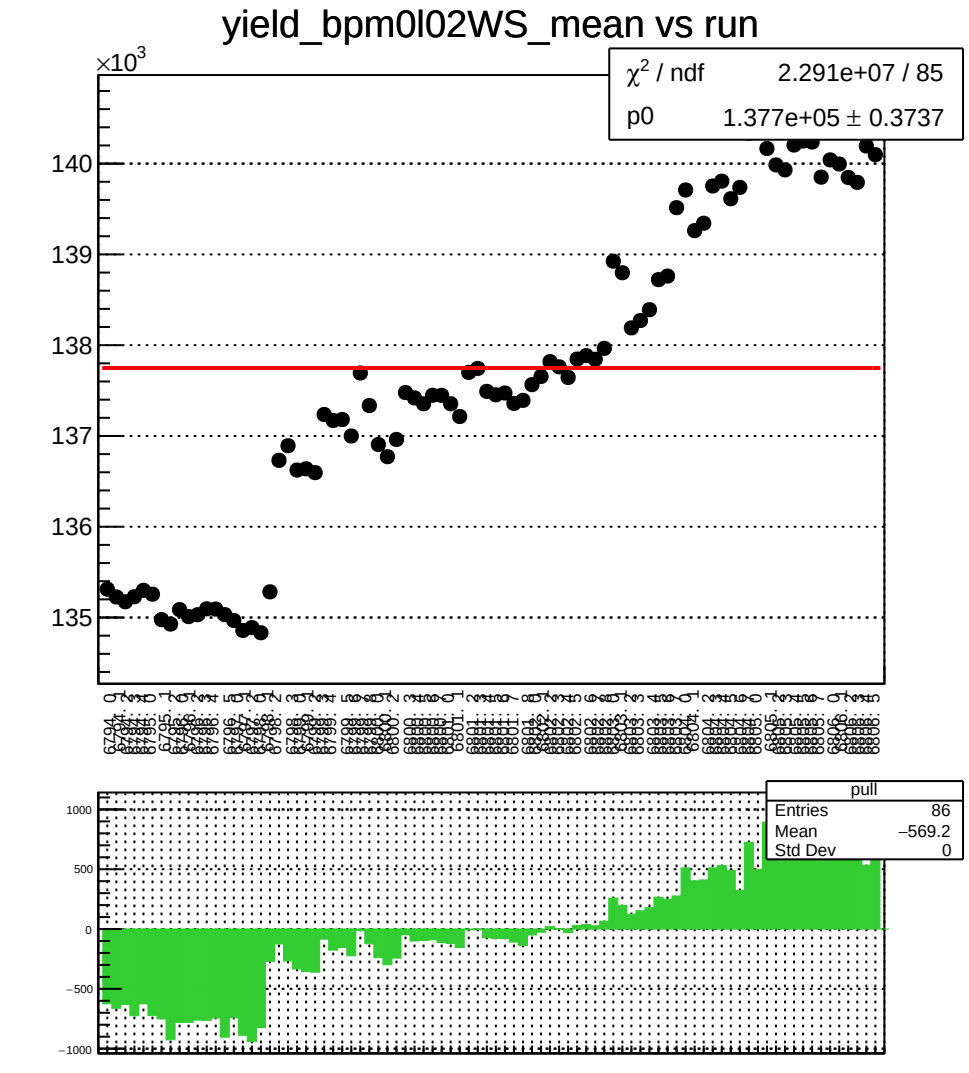

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

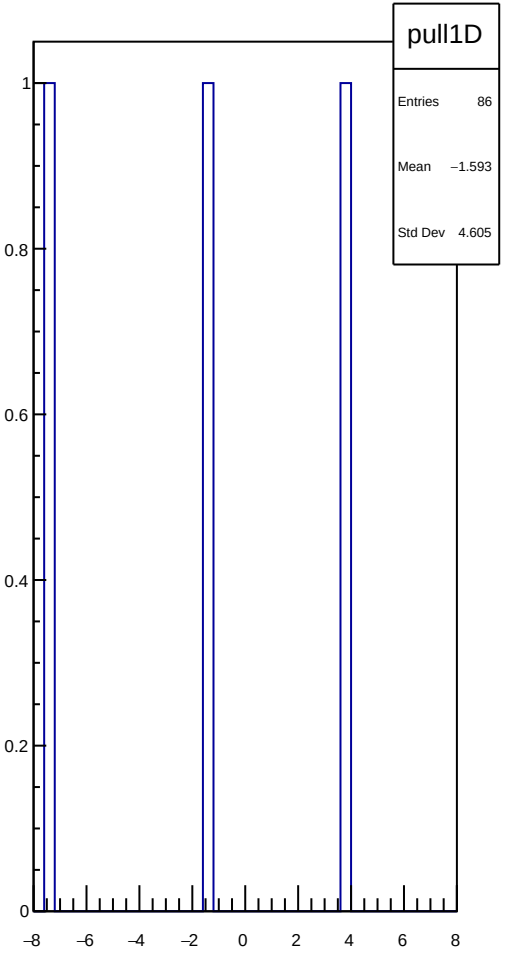

yield_bpm0i01aWS_rms vs run
χ² / ndf 4.388e+04 / 85
p0 231.7 ± 0.181
700
600
500
400
300
200
100

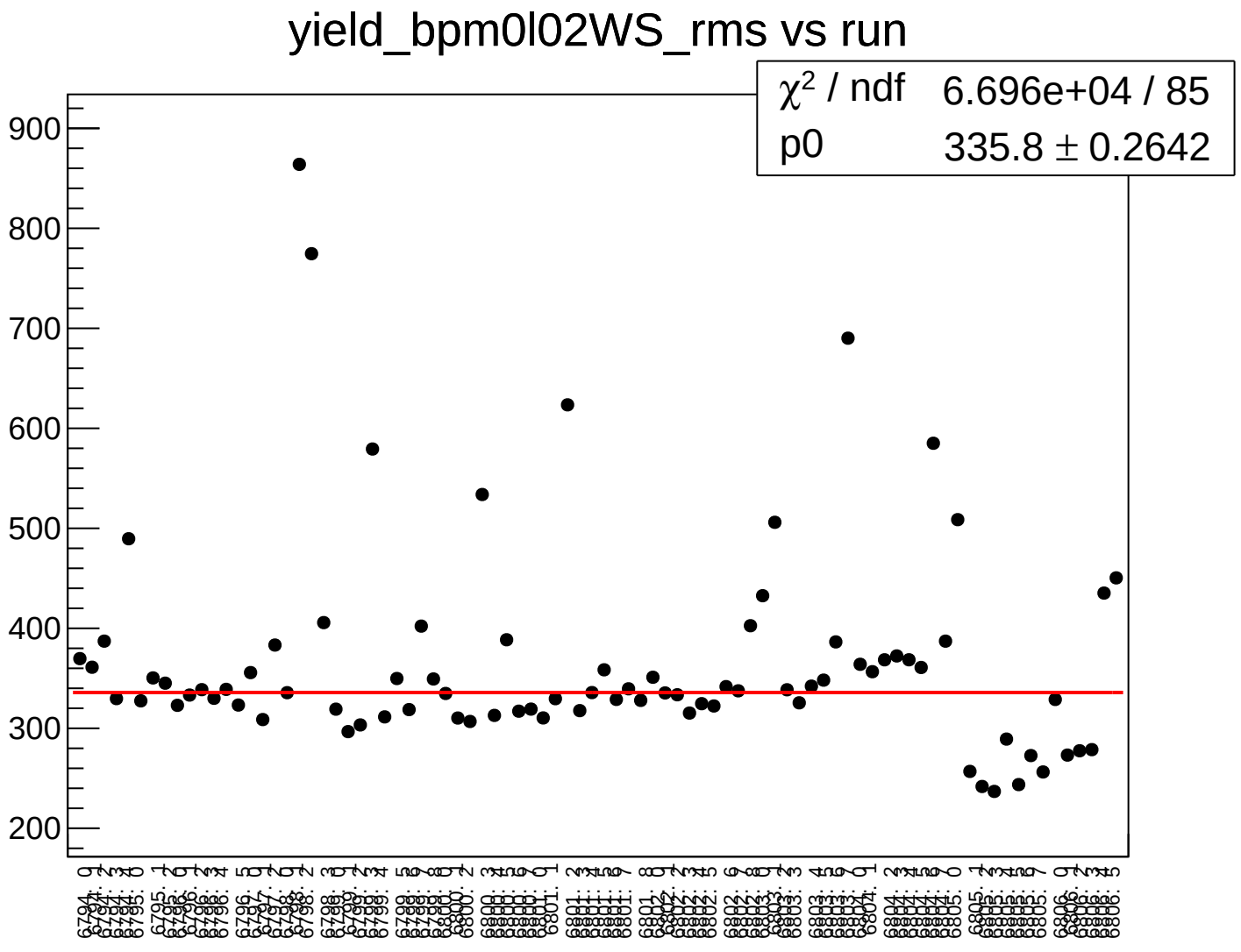

yield_bpm0l01WS_mean vs run
χ² / ndf 3.317e+06 / 85
p0 1.211e+05 ± 0.2441
×10³
122
121.5
121
120.5
120
pull
Entries 86
Mean −52.57
Std Dev 0
400
200
0
−200
−400

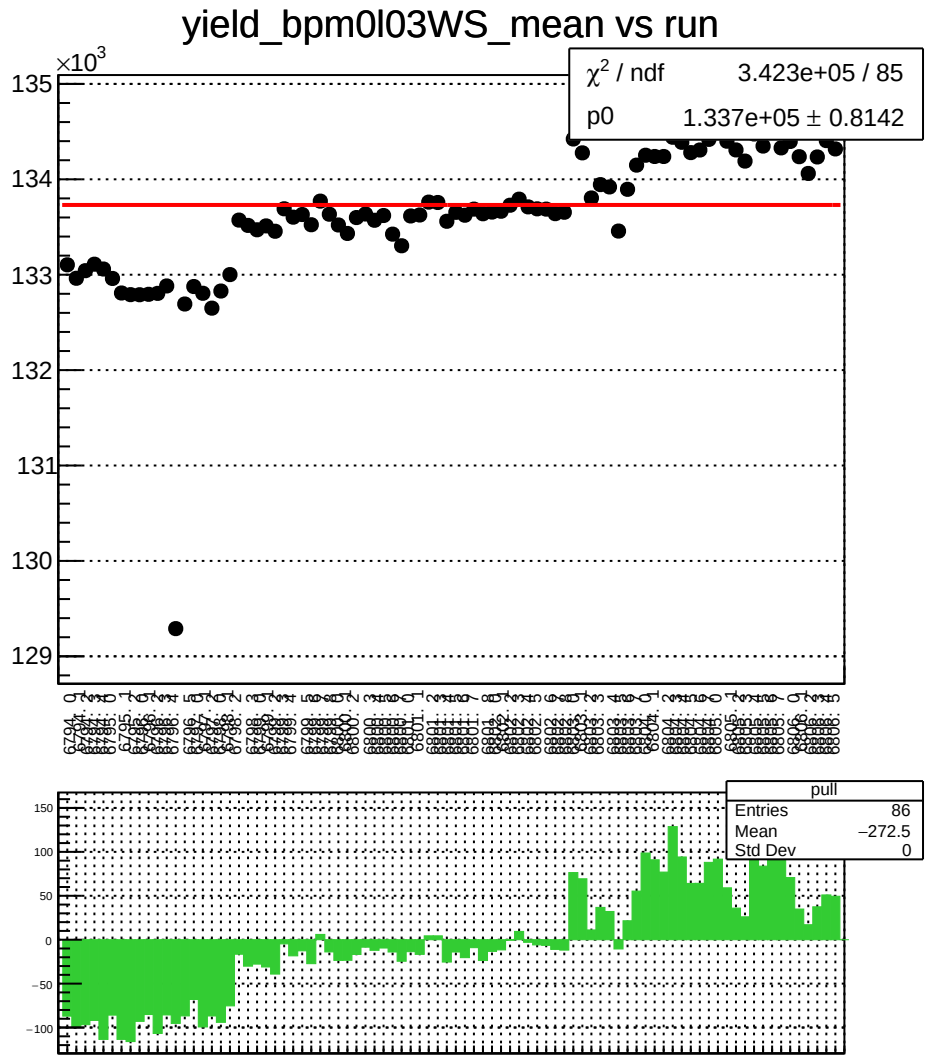

pull1D
Entries 86
Mean 2.956
Std Dev 4.565
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

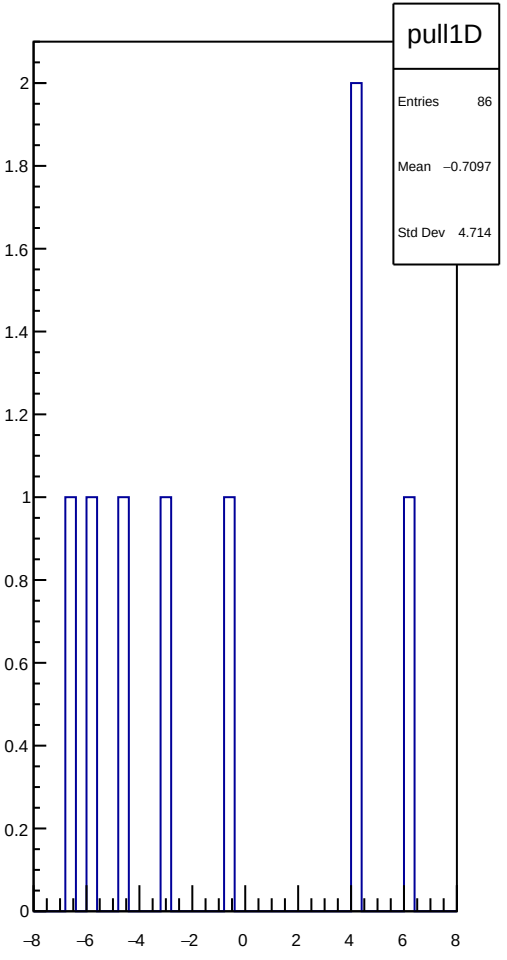

yield_bpm0l01WS_rms vs run
χ² / ndf 7.497e+04 / 85
p0 218.8 ± 0.1726
450
400
350
300
250
200
150

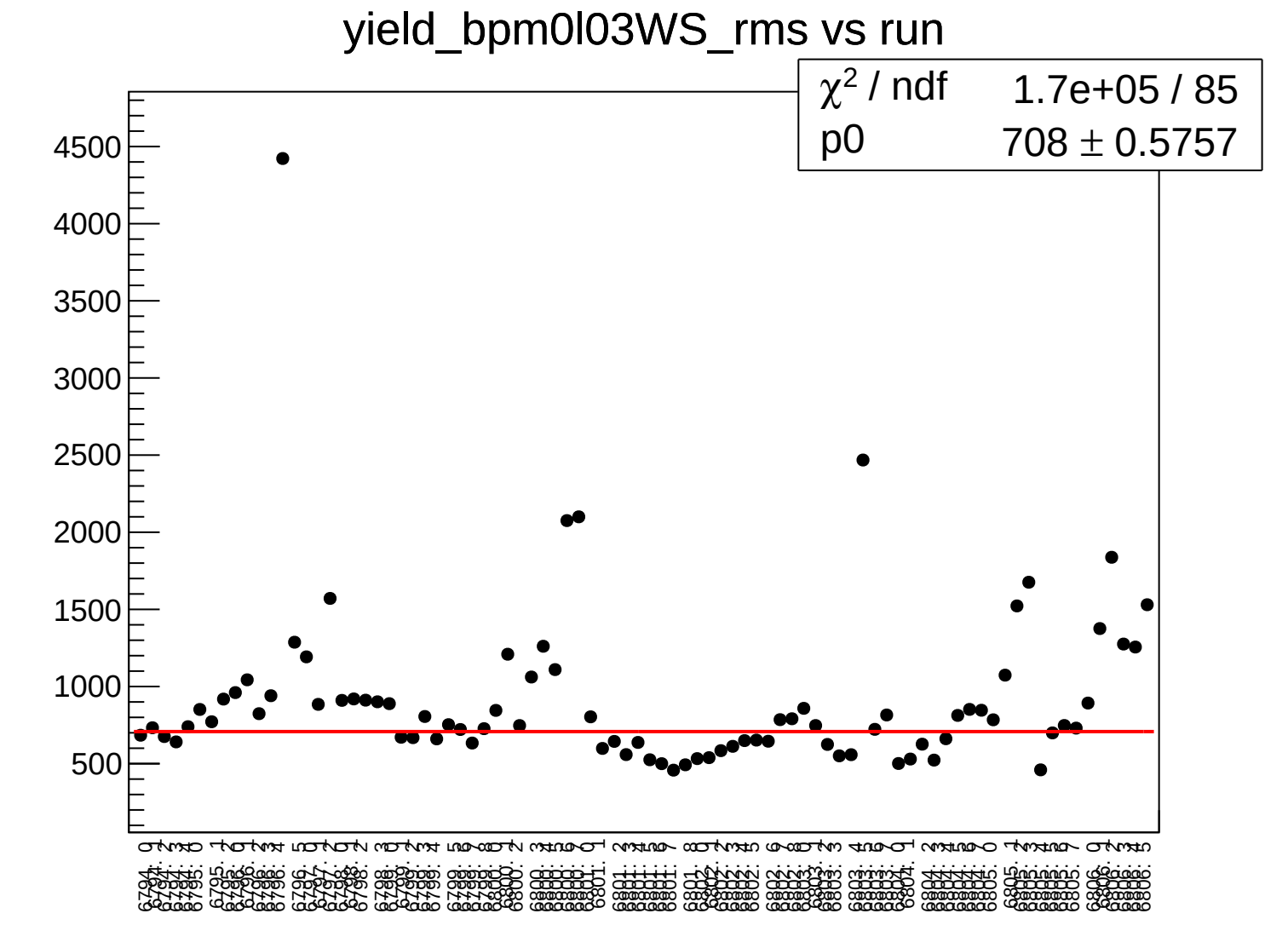

yield_bpm0l02WS_mean vs run
χ² / ndf 2.291e+07 / 85
p0 1.377e+05 ± 0.3737
×10³
140
139
138
137
136
135
pull
Entries 86
Mean −569.2
Std Dev 0
1000
500
0
−500
−1000

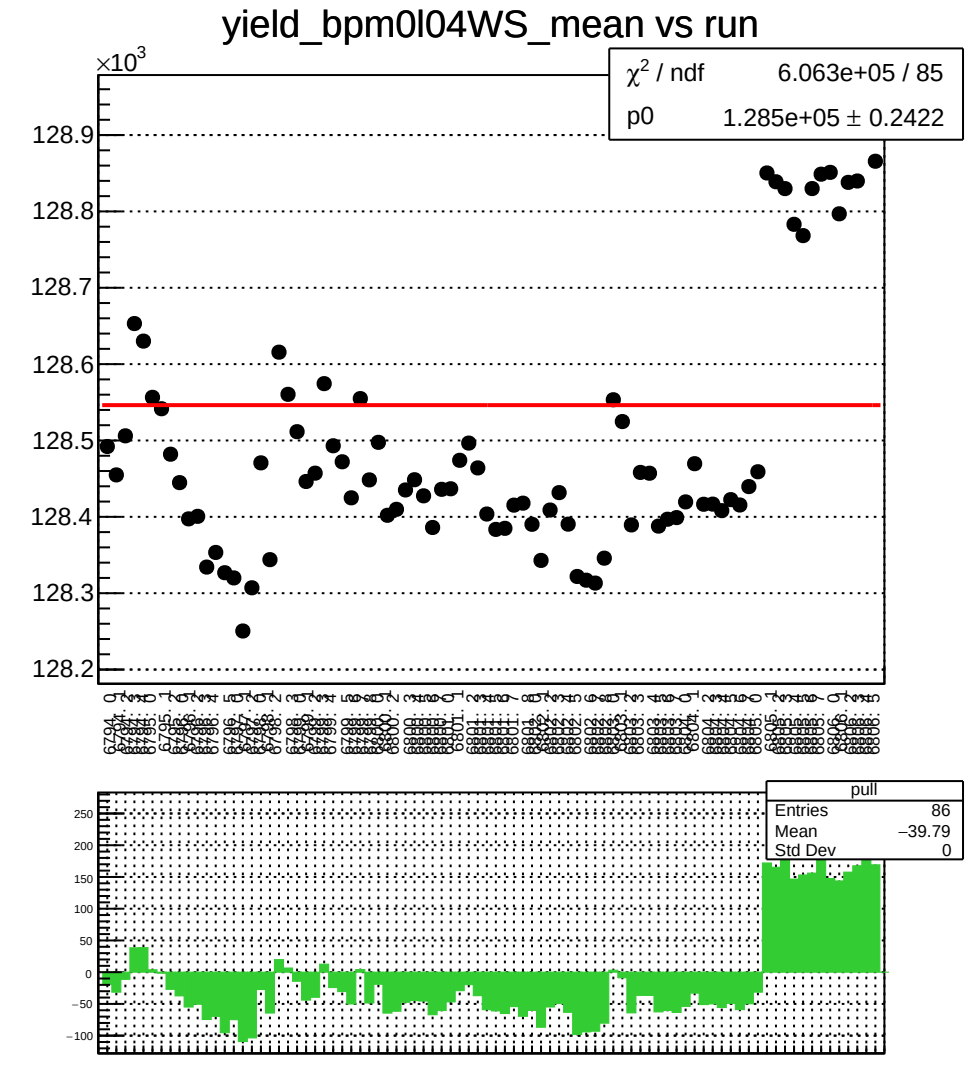

pull1D
Entries 86
Mean −1.593
Std Dev 4.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

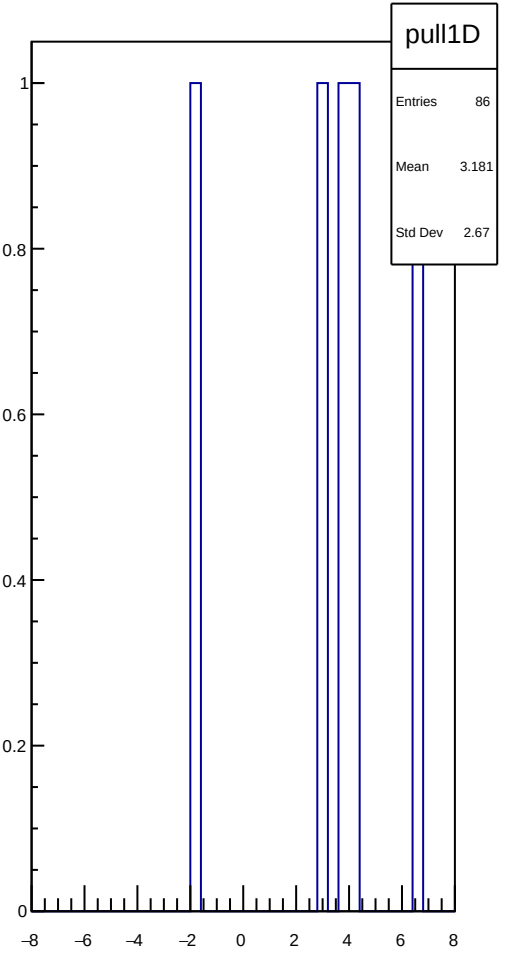

yield_bpm0l02WS_rms vs run
χ² / ndf 6.696e+04 / 85
p0 335.8 ± 0.2642
900
800
700
600
500
400
300
200

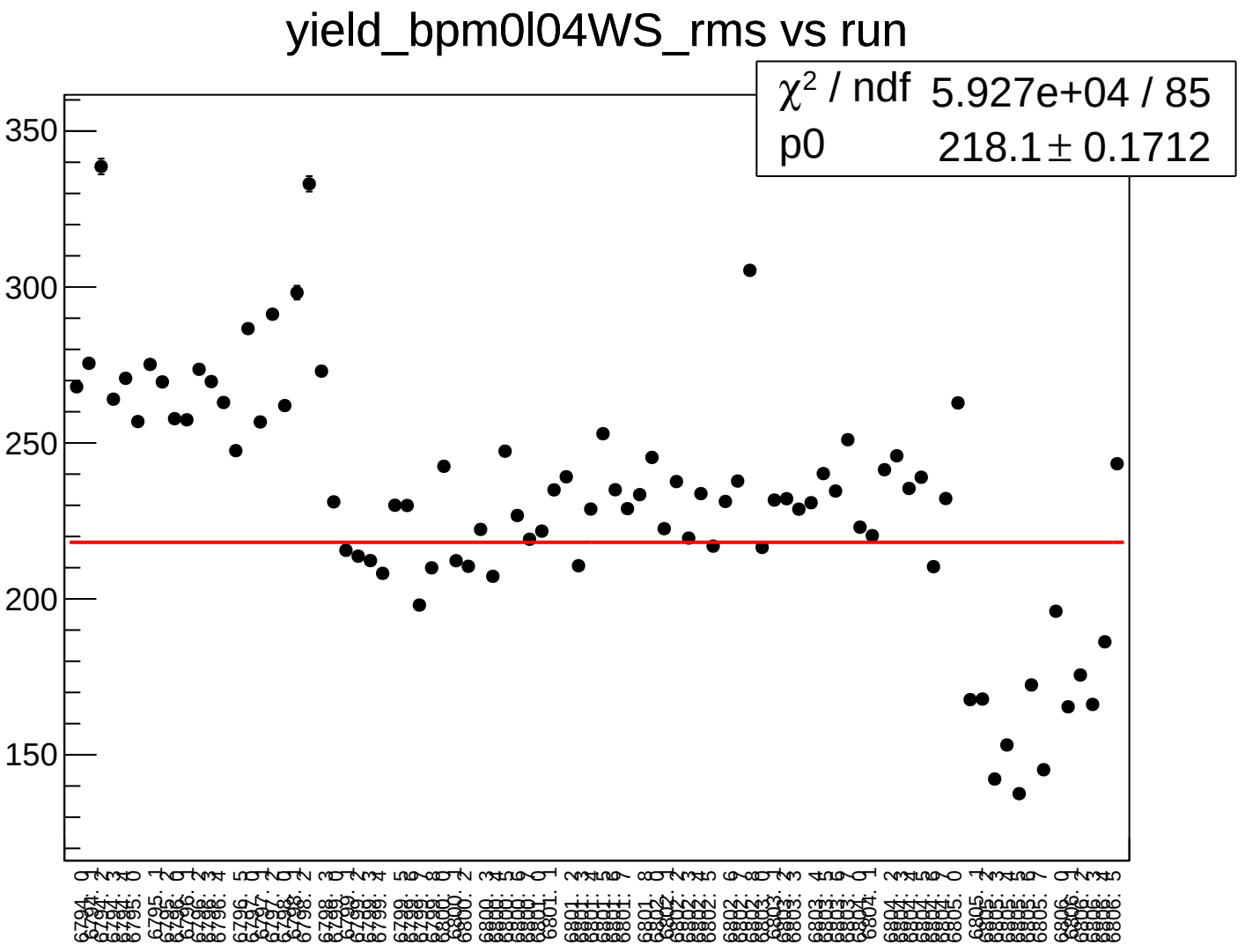

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.423e+05 / 85
p0 1.337e+05 ± 0.8142
135
134
133
132
131
130
129
pull
Entries 86
Mean −272.5
Std Dev 0
150
100
50
0
−50
−100

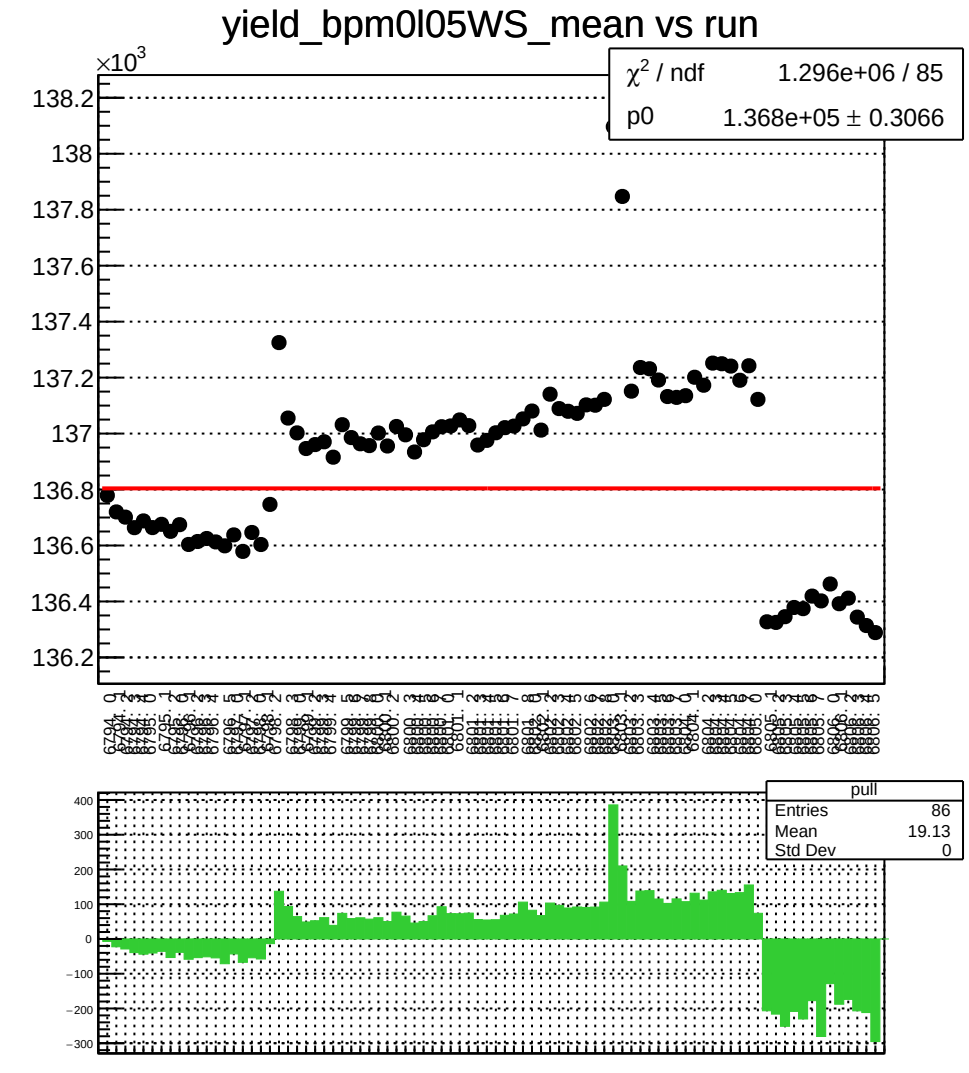

pull1D
Entries 86
Mean −0.7097
Std Dev 4.714
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

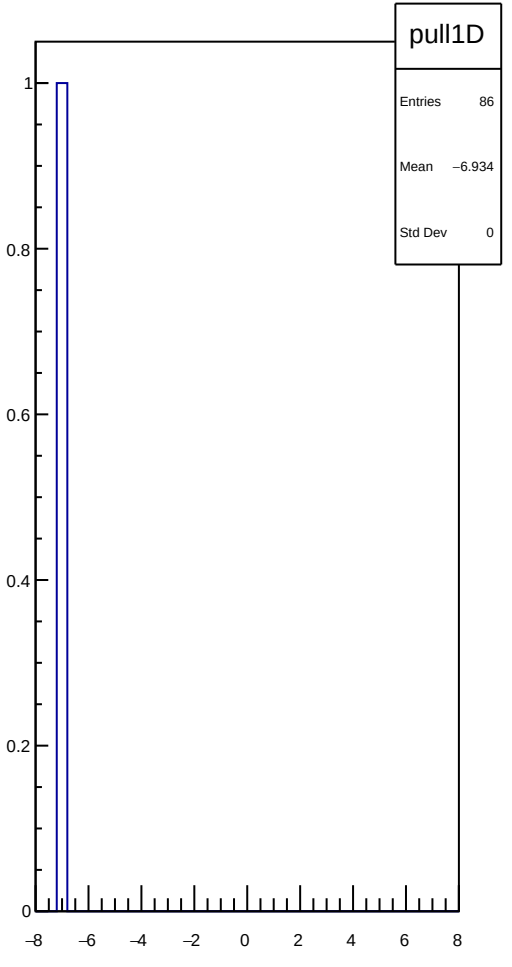

yield_bpm0l03WS_rms vs run
χ² / ndf 1.7e+05 / 85
p0 708 ± 0.5757
4500
4000
3500
3000
2500
2000
1500
1000
500

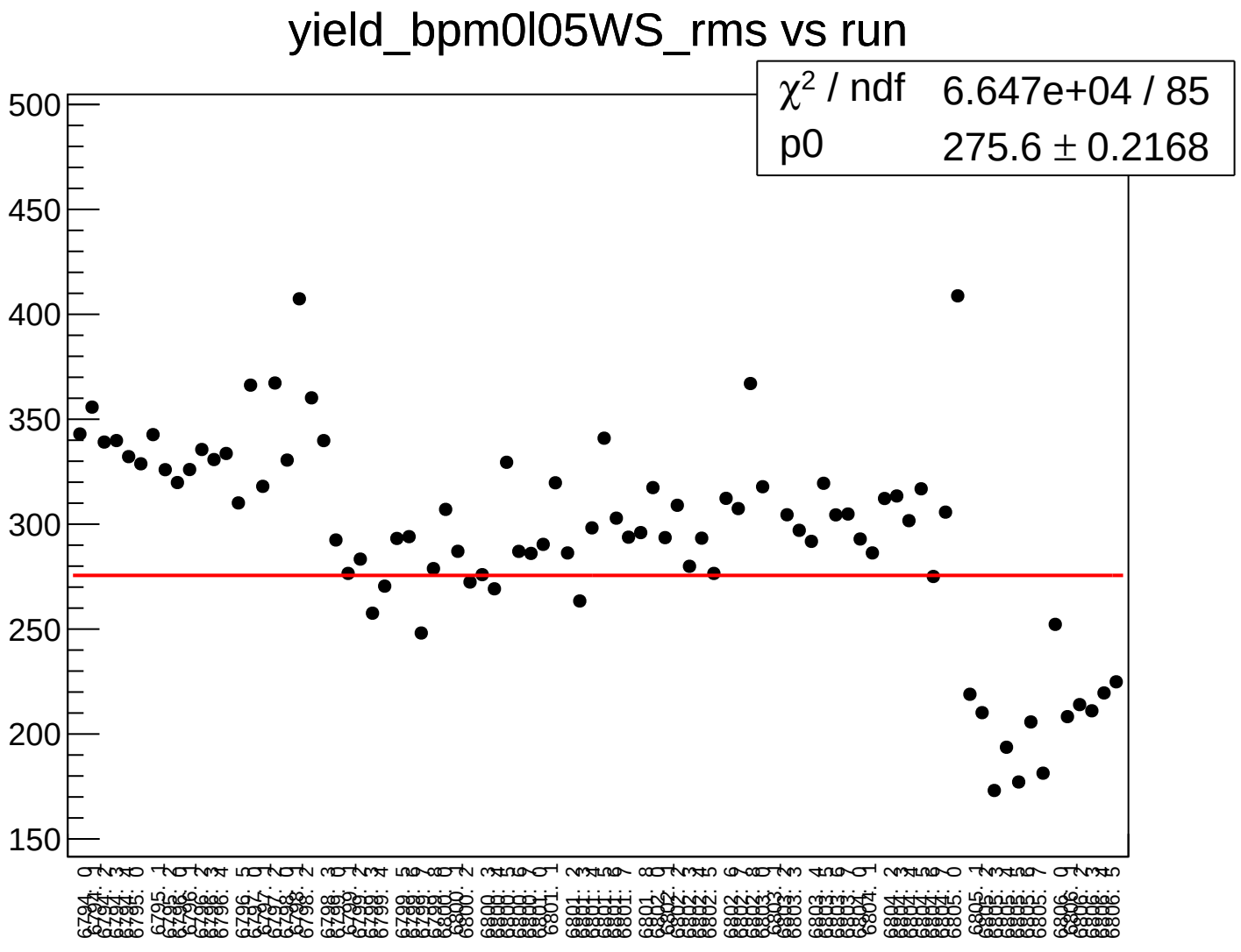

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 6.063e+05 / 85
p0 1.285e+05 ± 0.2422
128.9
128.8
128.7
128.6
128.5
128.4
128.3
128.2
pull
Entries 86
Mean −39.79
Std Dev 0
250
200
150
100
50
0
−50
−100

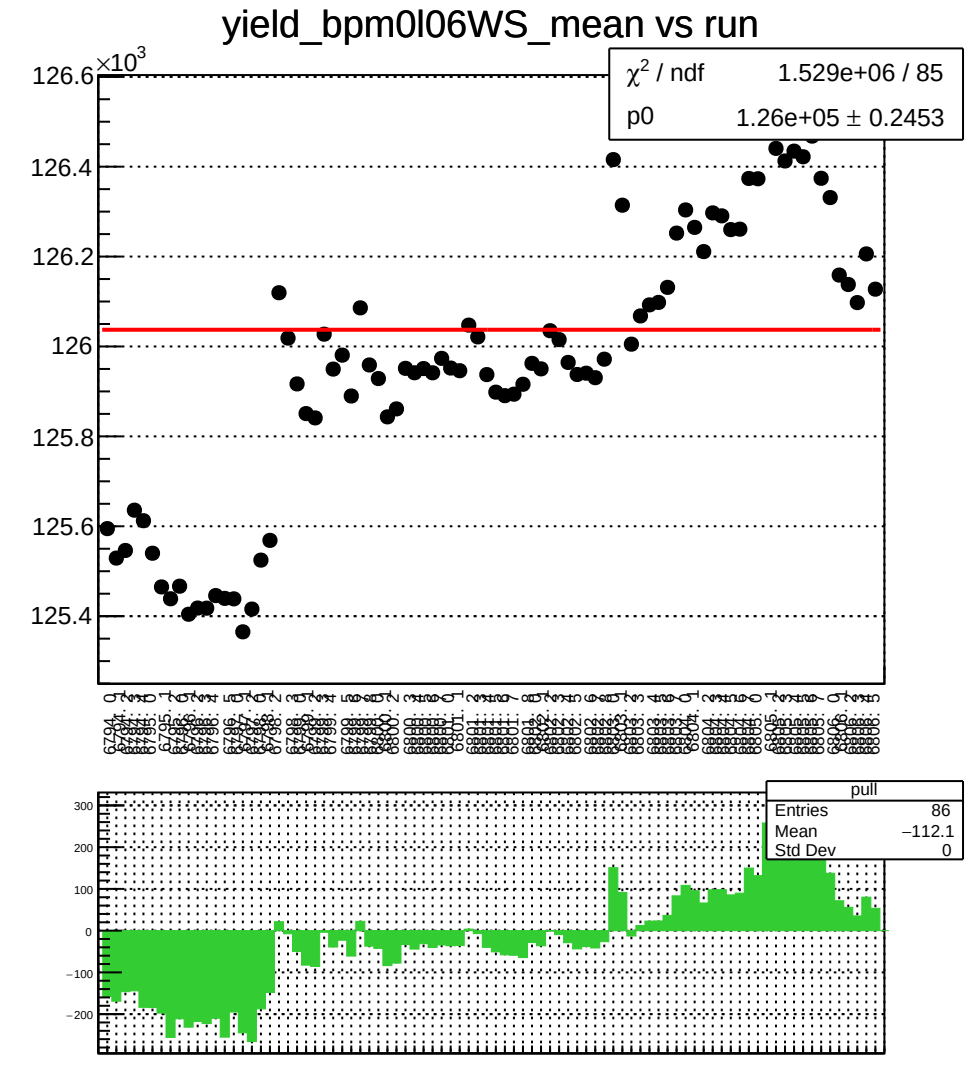

pull1D
Entries 86
Mean 3.181
Std Dev 2.67
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

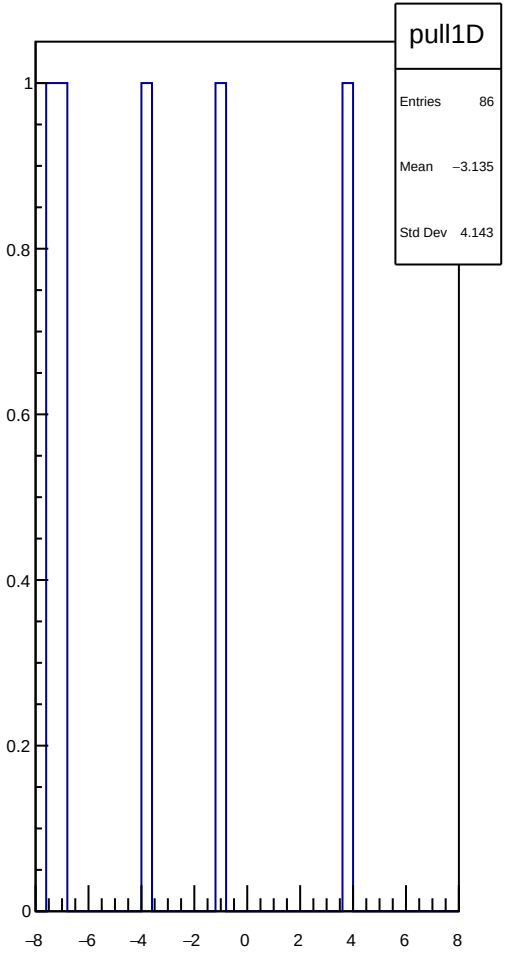

yield_bpm0l04WS_rms vs run
χ² / ndf 5.927e+04 / 85
p0 218.1 ± 0.1712
350
300
250
200
150

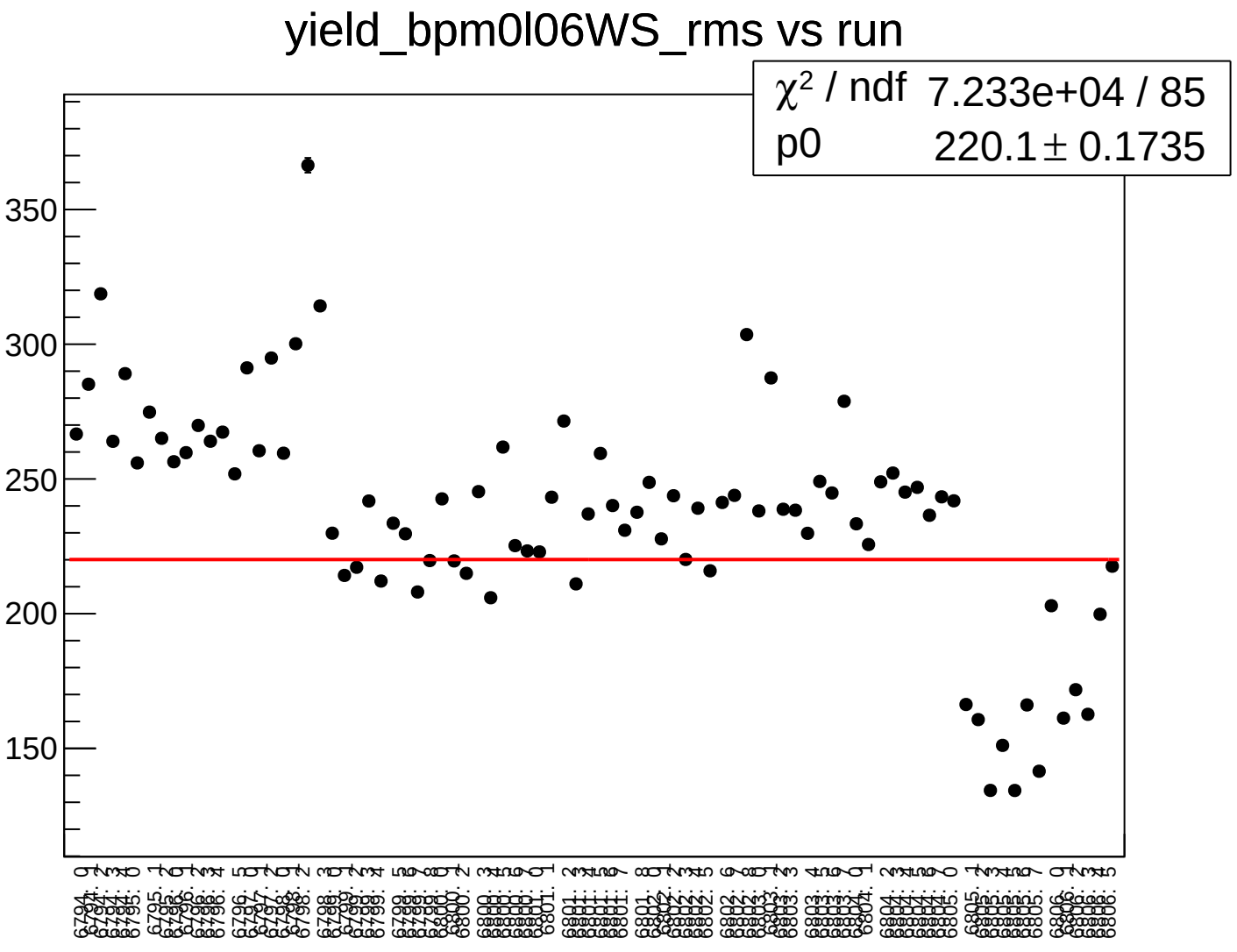

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.296e+06 / 85
p0 1.368e+05 ± 0.3066
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
pull
Entries 86
Mean 19.13
Std Dev 0
400
300
200
100
0
−100
−200
−300

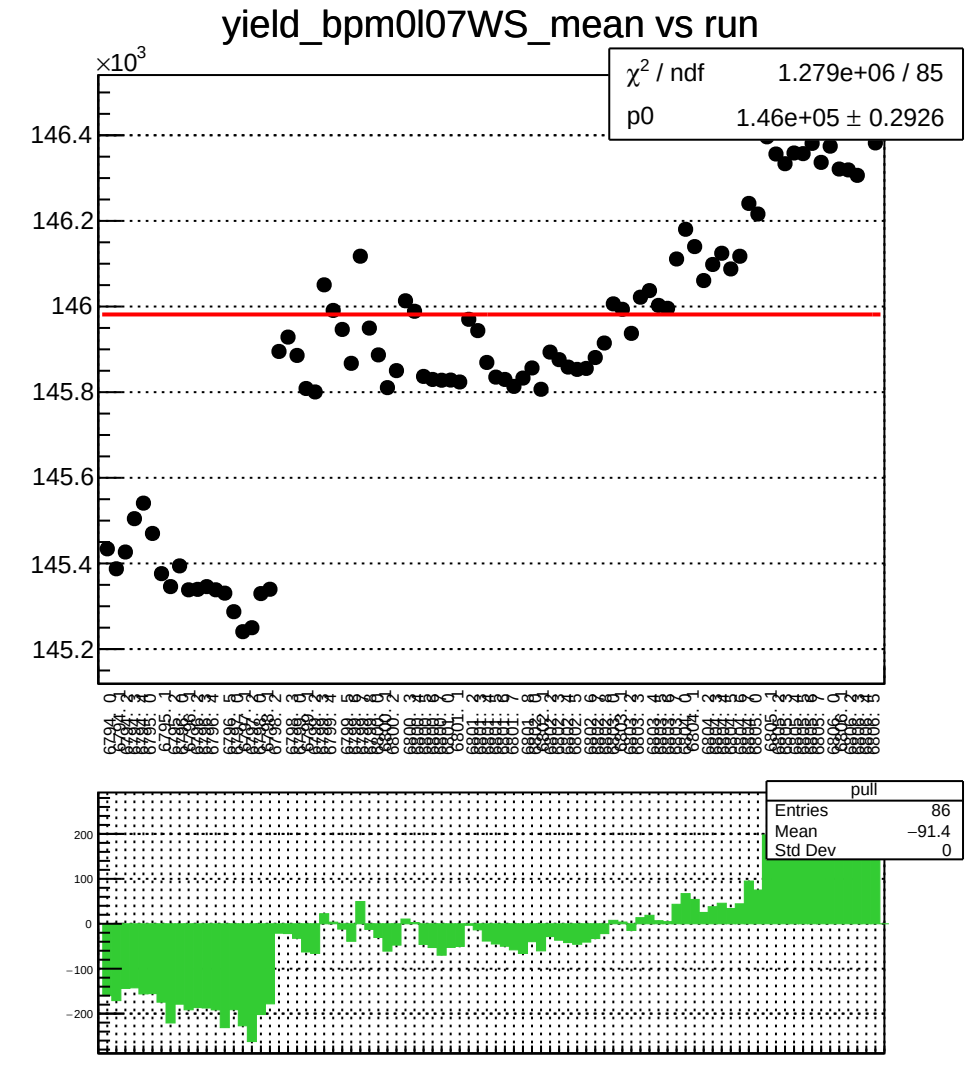

pull1D
Entries 86
Mean −6.934
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

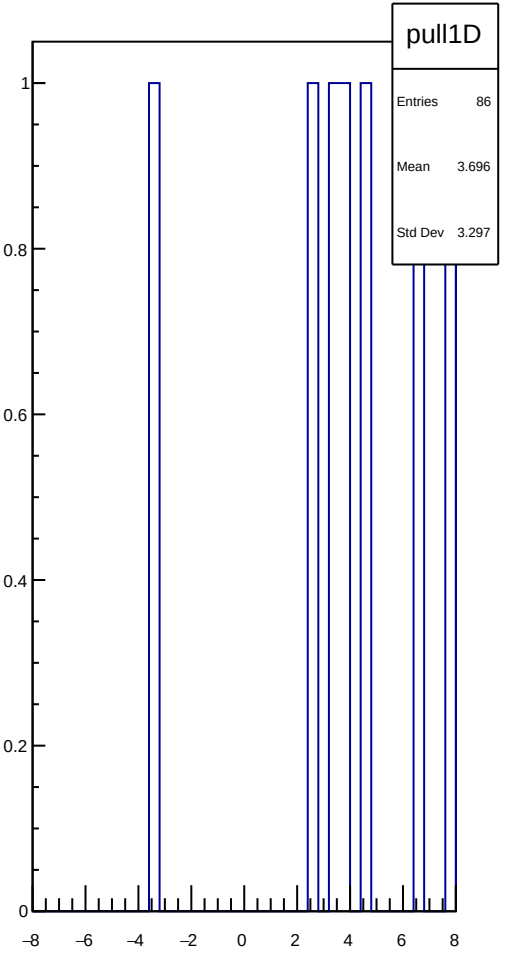

yield_bpm0l05WS_rms vs run
χ² / ndf 6.647e+04 / 85
p0 275.6 ± 0.2168
500
450
400
350
300
250
200
150

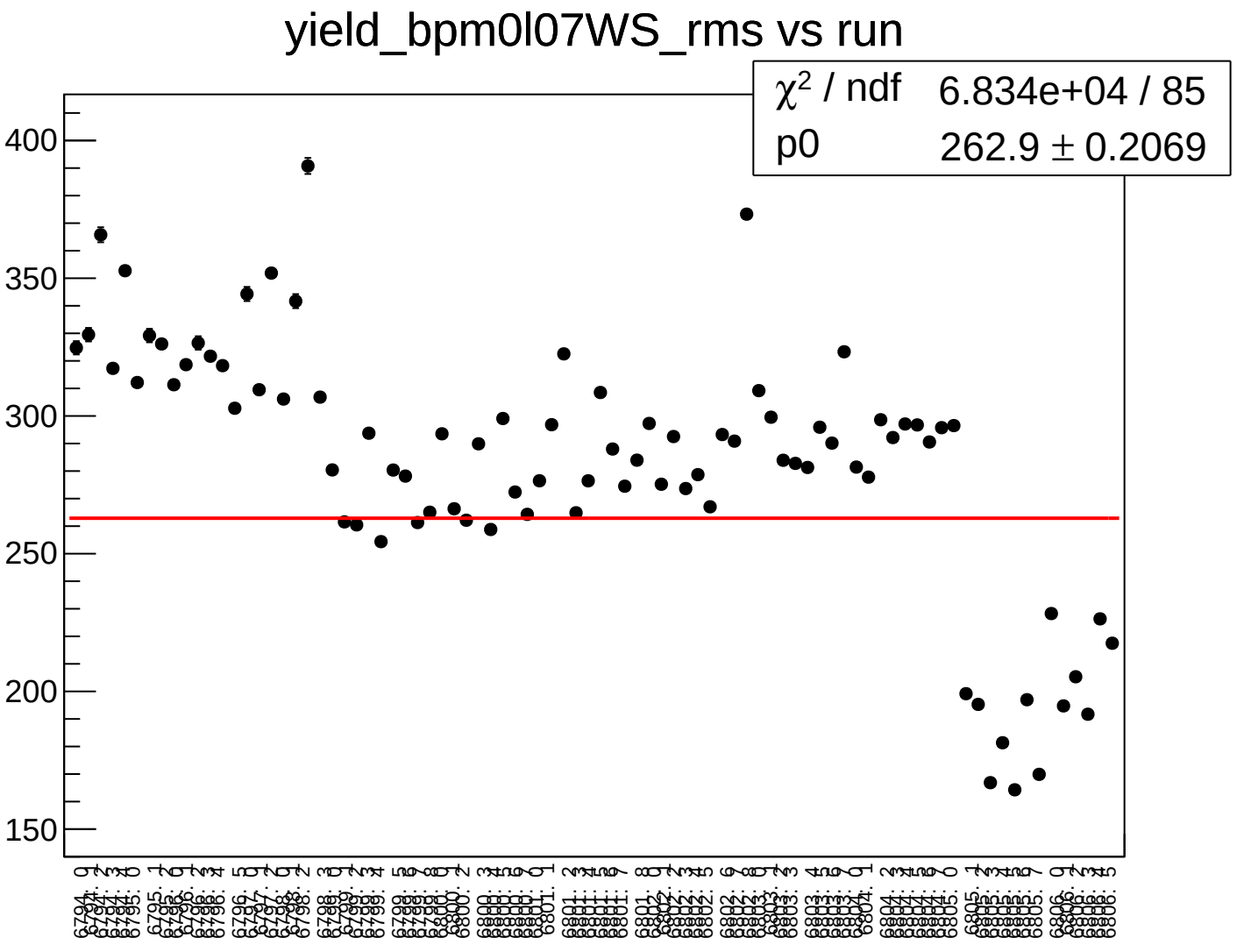

yield_bpm0l06WS_mean vs run
χ² / ndf 1.529e+06 / 85
p0 1.26e+05 ± 0.2453
×10³
126.6
126.4
126.2
126
125.8
125.6
125.4
pull
Entries 86
Mean −112.1
Std Dev 0
300
200
100
0
−100
−200

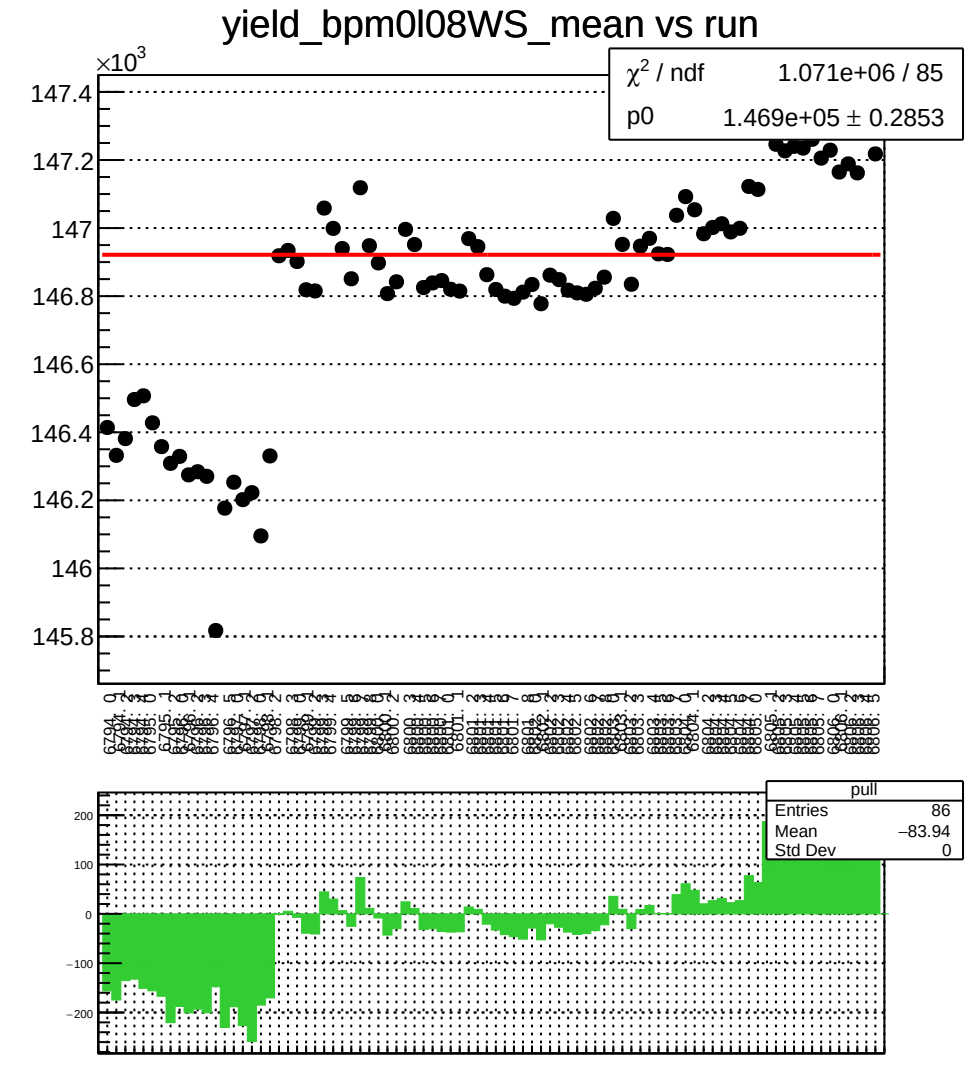

pull1D
Entries 86
Mean −3.135
Std Dev 4.143
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

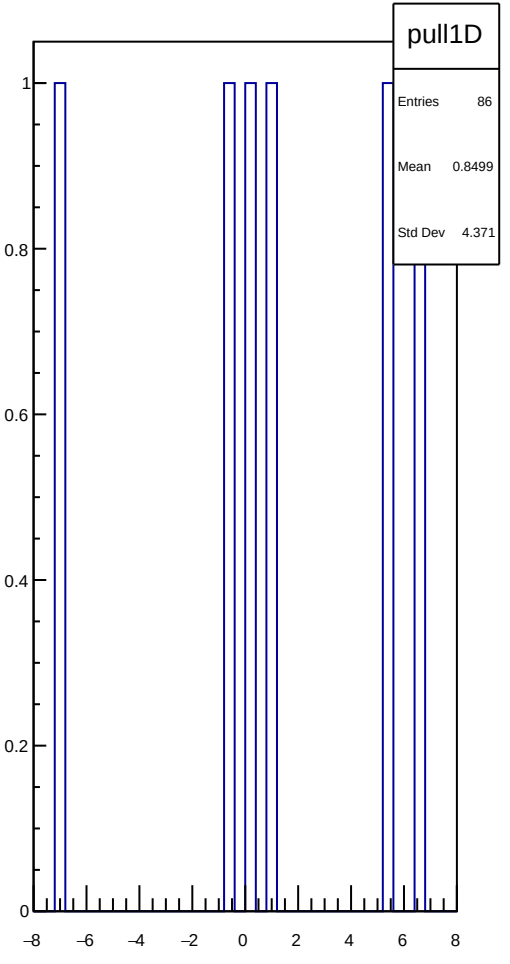

yield_bpm0l06WS_rms vs run
χ² / ndf 7.233e+04 / 85
p0 220.1 ± 0.1735
350
300
250
200
150

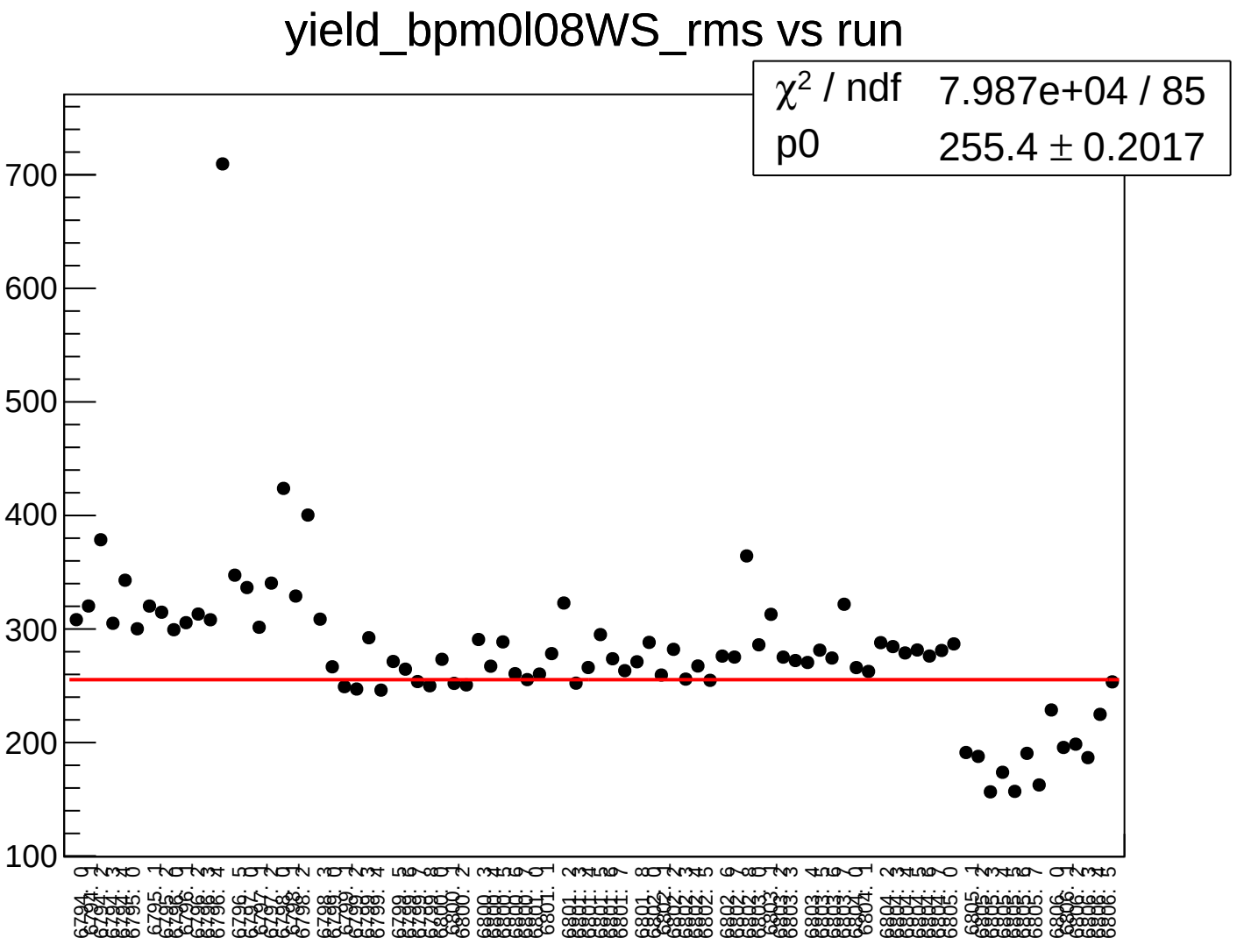

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.279e+06 / 85
p0 1.46e+05 ± 0.2926
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 86
Mean −91.4
Std Dev 0
200
100
0
−100
−200

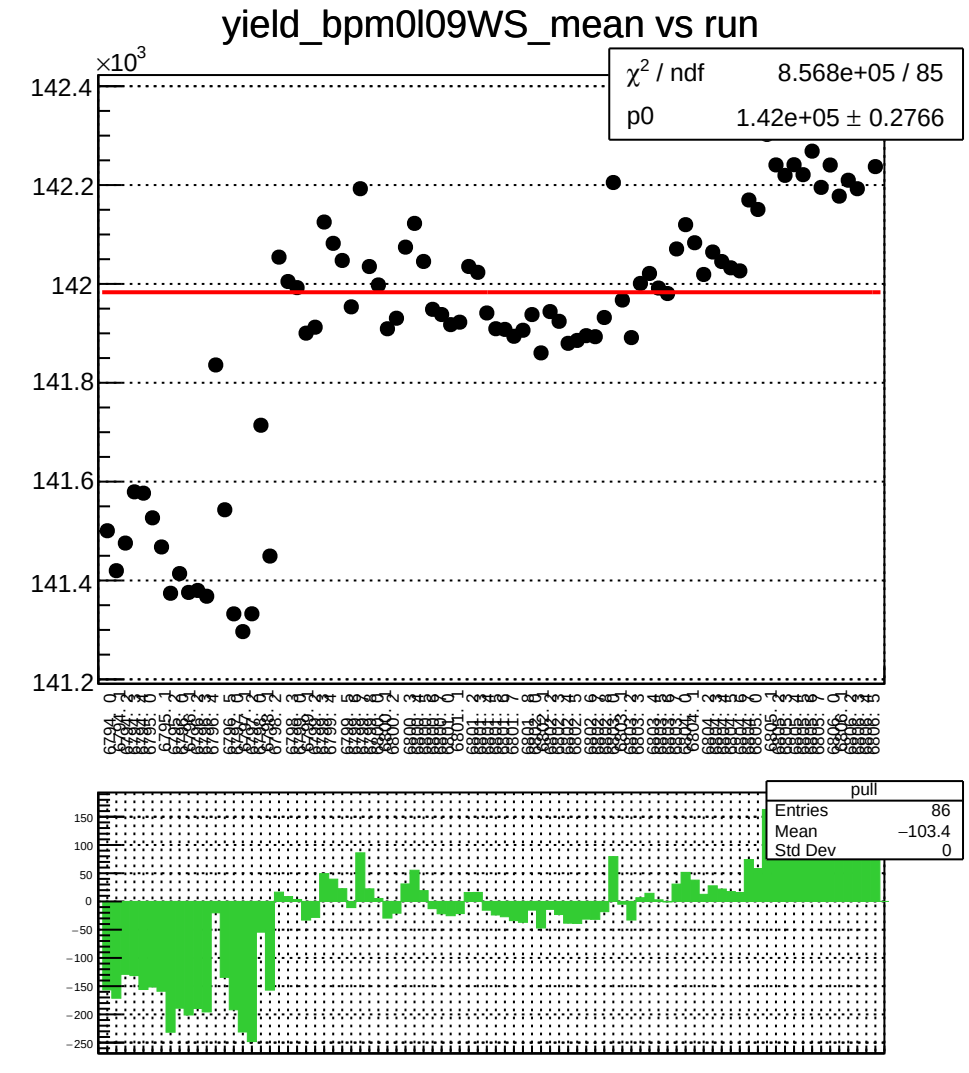

pull1D
Entries 86
Mean 3.696
Std Dev 3.297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

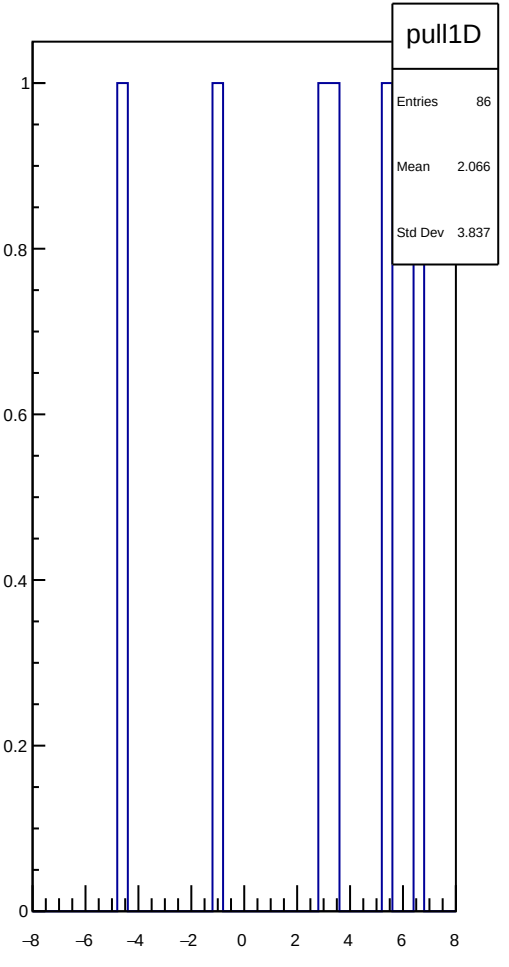

yield_bpm0l07WS_rms vs run
χ² / ndf 6.834e+04 / 85
p0 262.9 ± 0.2069
400
350
300
250
200
150

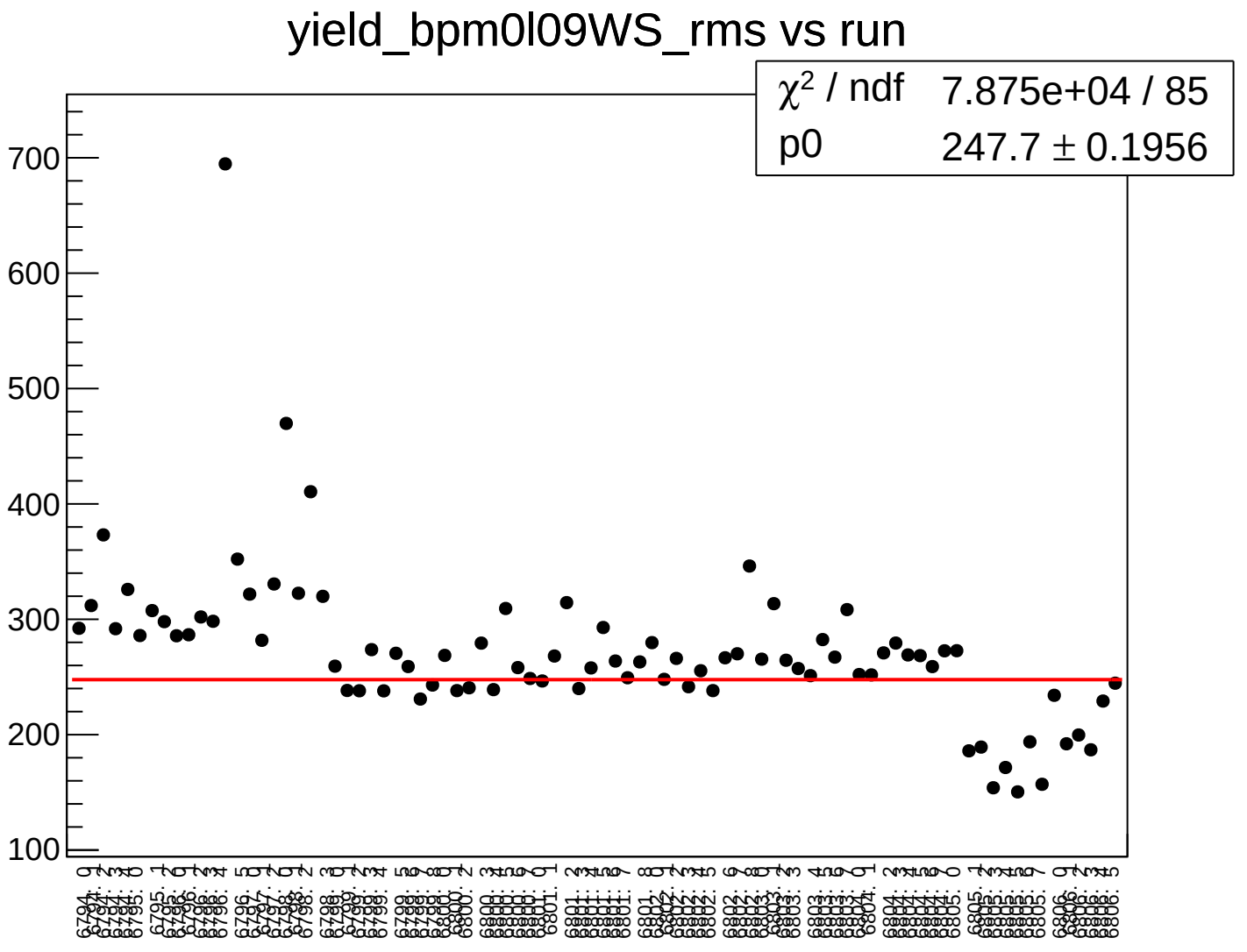

yield_bpm0l08WS_mean vs run
×10^3
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
χ² / ndf 1.071e+06 / 85
p0 1.469e+05 ± 0.2853
pull
Entries 86
Mean −83.94
Std Dev 0
200
100
0
−100
−200

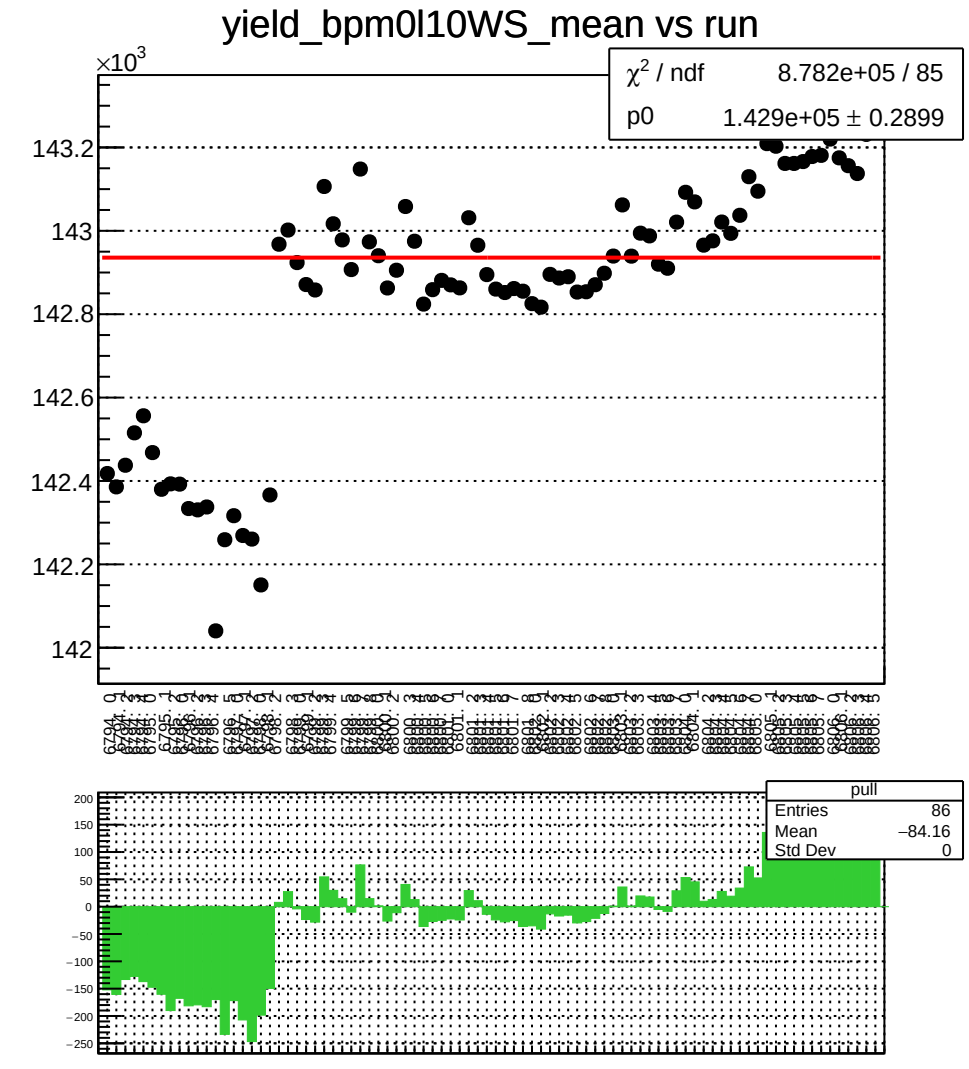

pull1D
Entries 86
Mean 0.8499
Std Dev 4.371
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

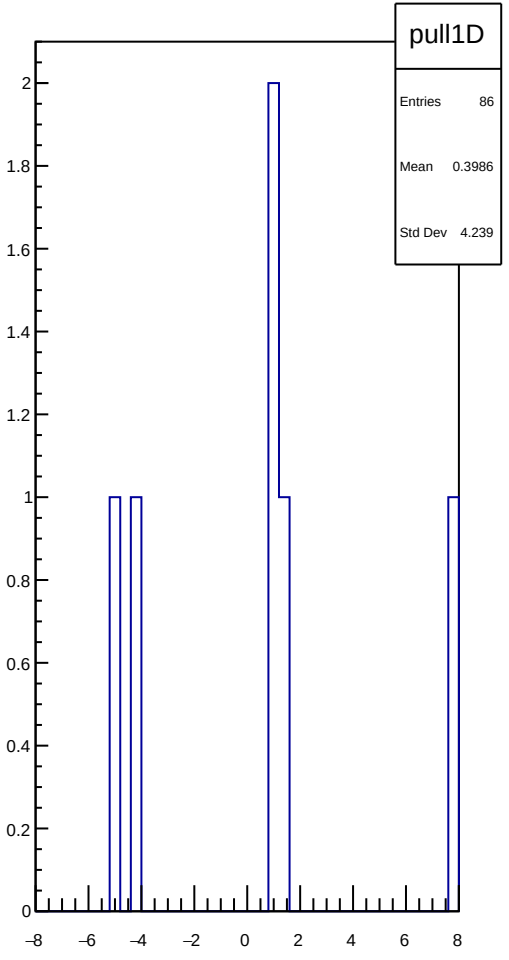

yield_bpm0l08WS_rms vs run
χ² / ndf 7.987e+04 / 85
p0 255.4 ± 0.2017
700
600
500
400
300
200
100

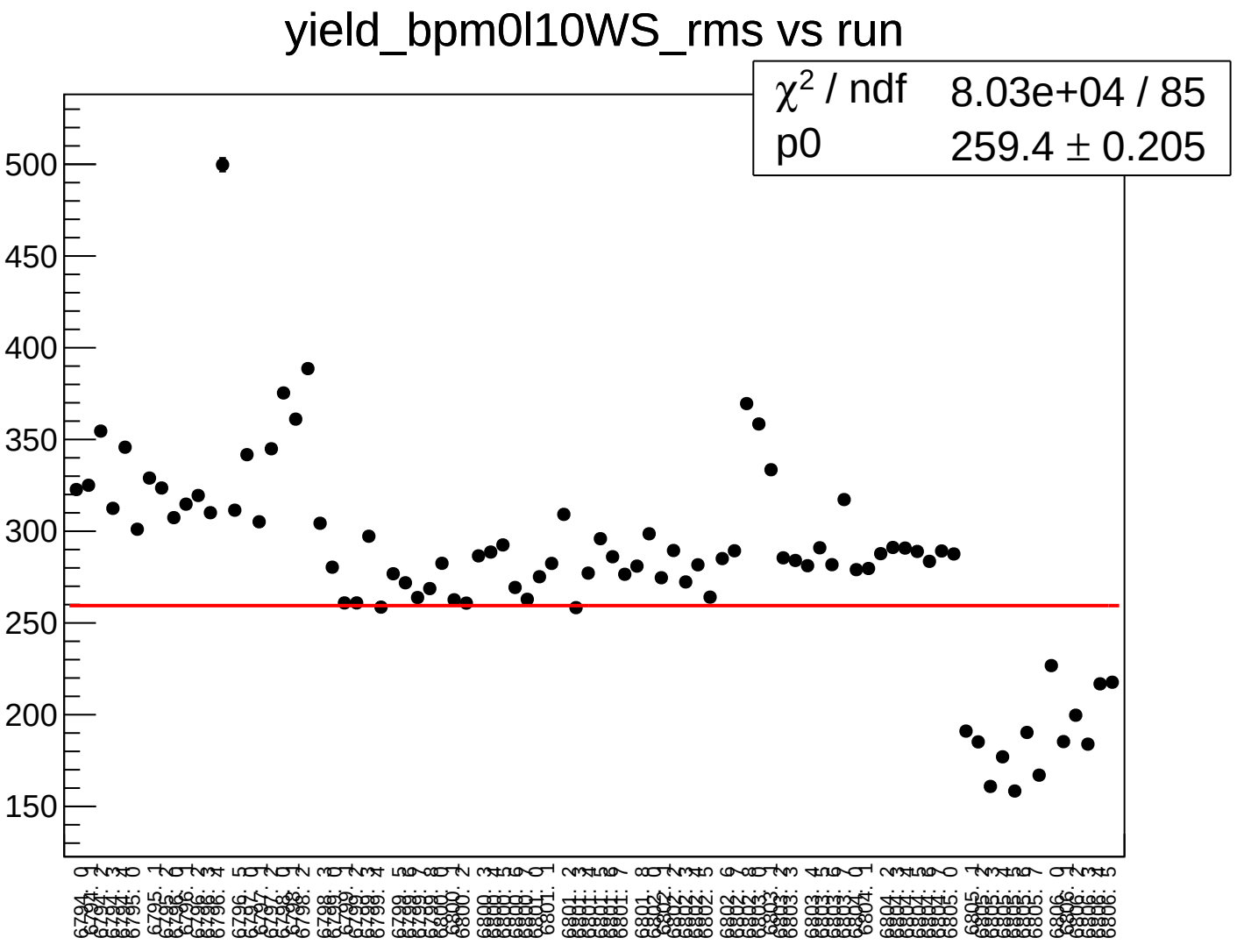

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.568e+05 / 85
p0 1.42e+05 ± 0.2766
142.4
142.2
142
141.8
141.6
141.4
141.2
pull
Entries 86
Mean −103.4
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

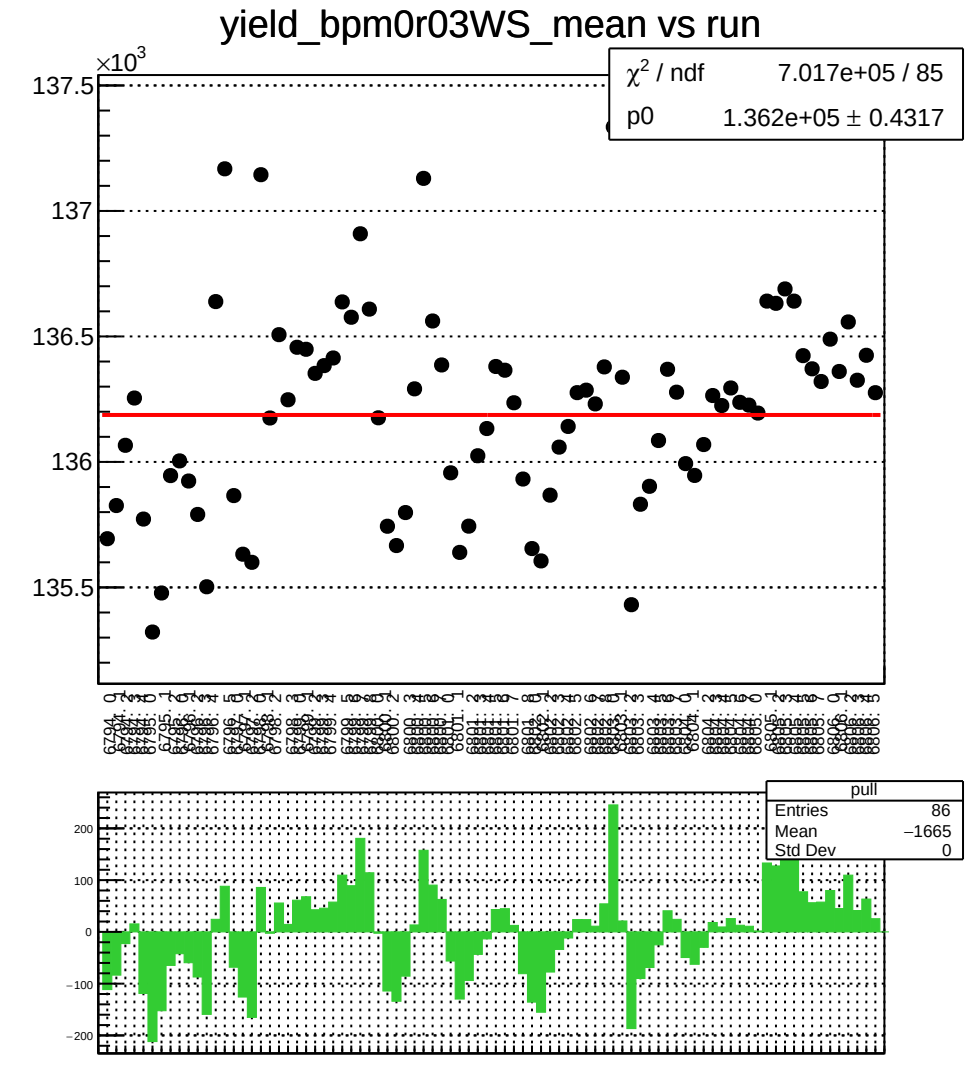

pull1D
Entries 86
Mean 2.066
Std Dev 3.837
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

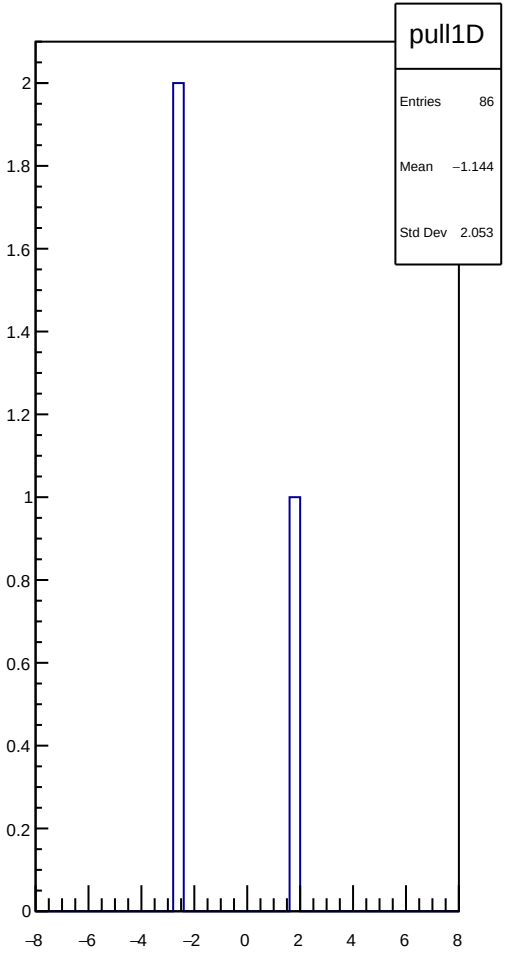

yield_bpm0l09WS_rms vs run
χ² / ndf 7.875e+04 / 85
p0 247.7 ± 0.1956
700
600
500
400
300
200
100

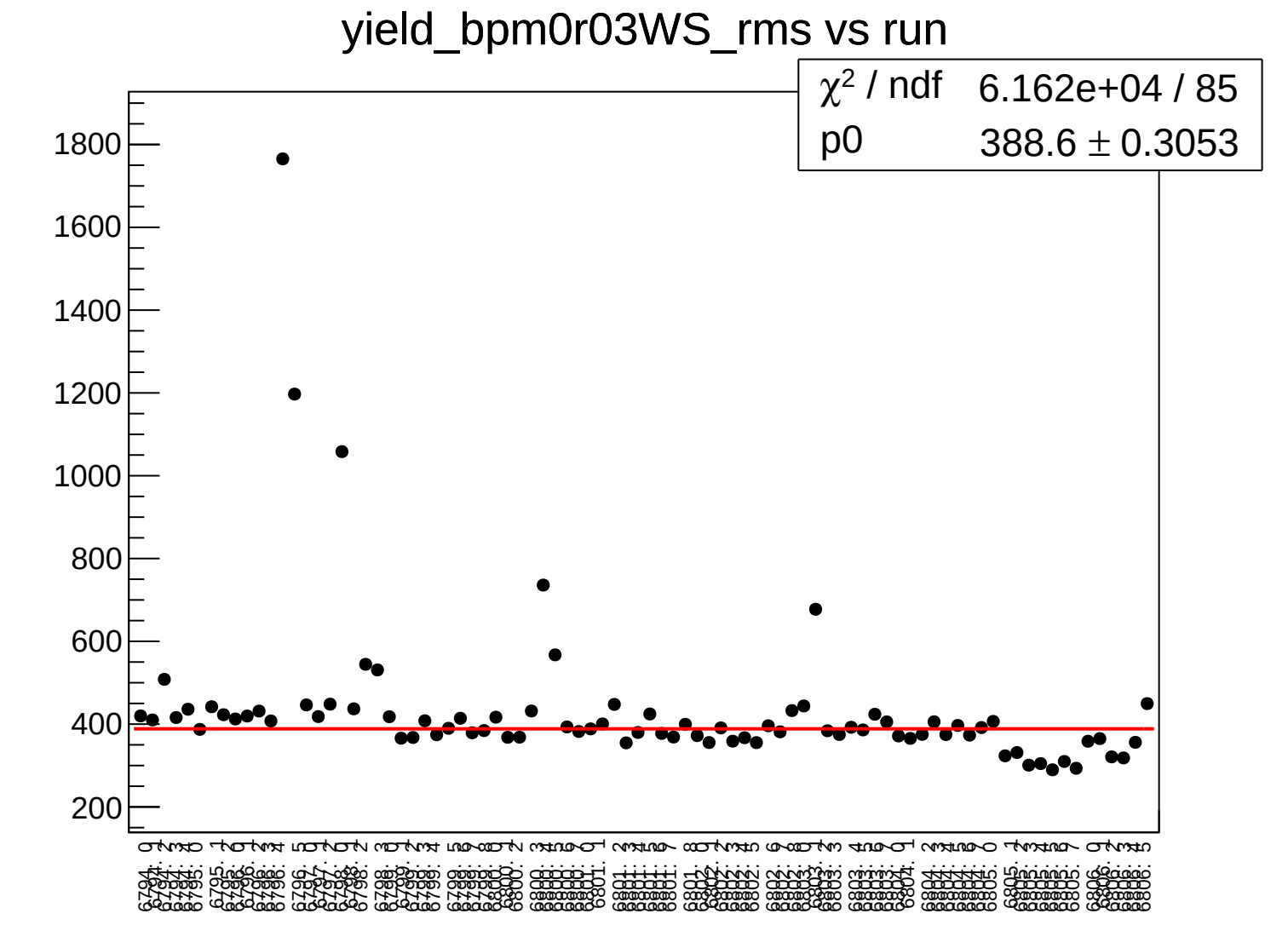

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 8.782e+05 / 85
p0 1.429e+05 ± 0.2899
143.2
143
142.8
142.6
142.4
142.2
142
pull
Entries 86
Mean −84.16
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

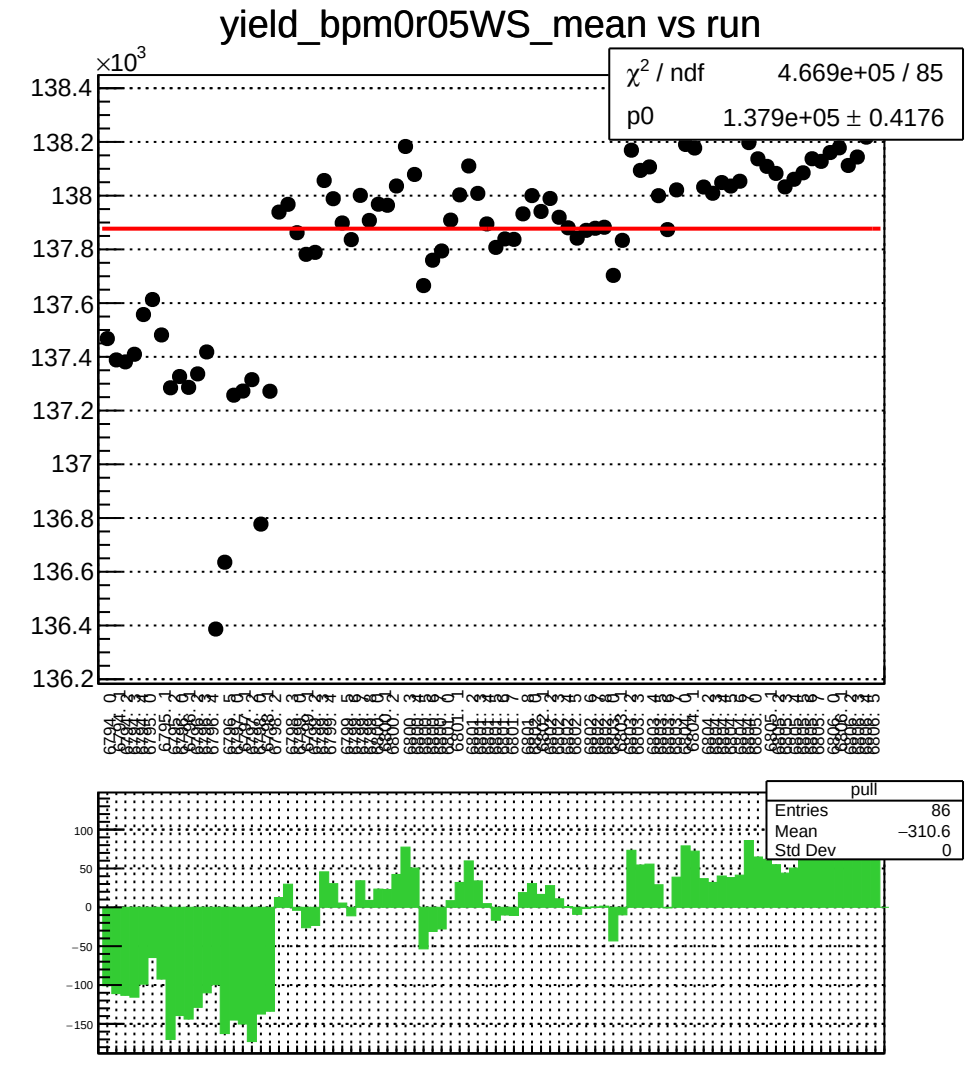

pull1D
Entries 86
Mean 0.3986
Std Dev 4.239
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

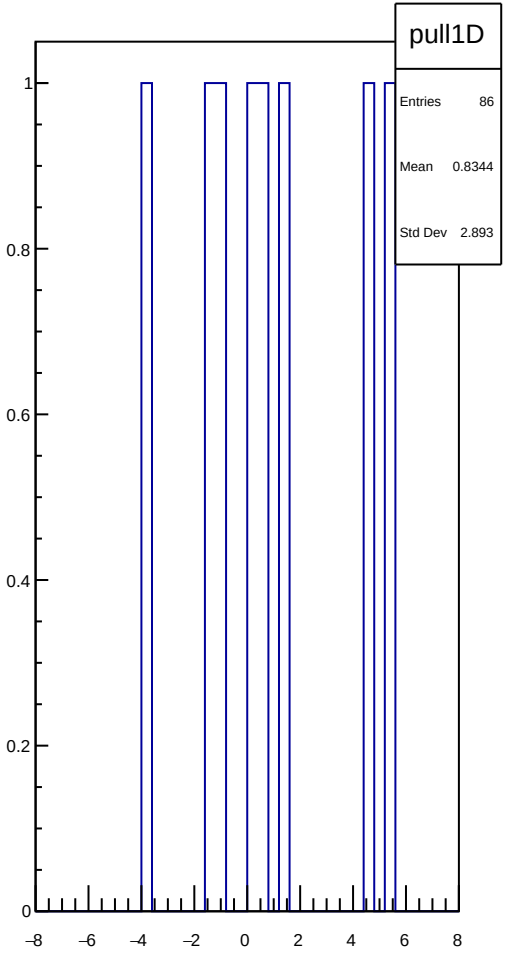

yield_bpm0l10WS_rms vs run
χ² / ndf 8.03e+04 / 85
p0 259.4 ± 0.205
500
450
400
350
300
250
200
150

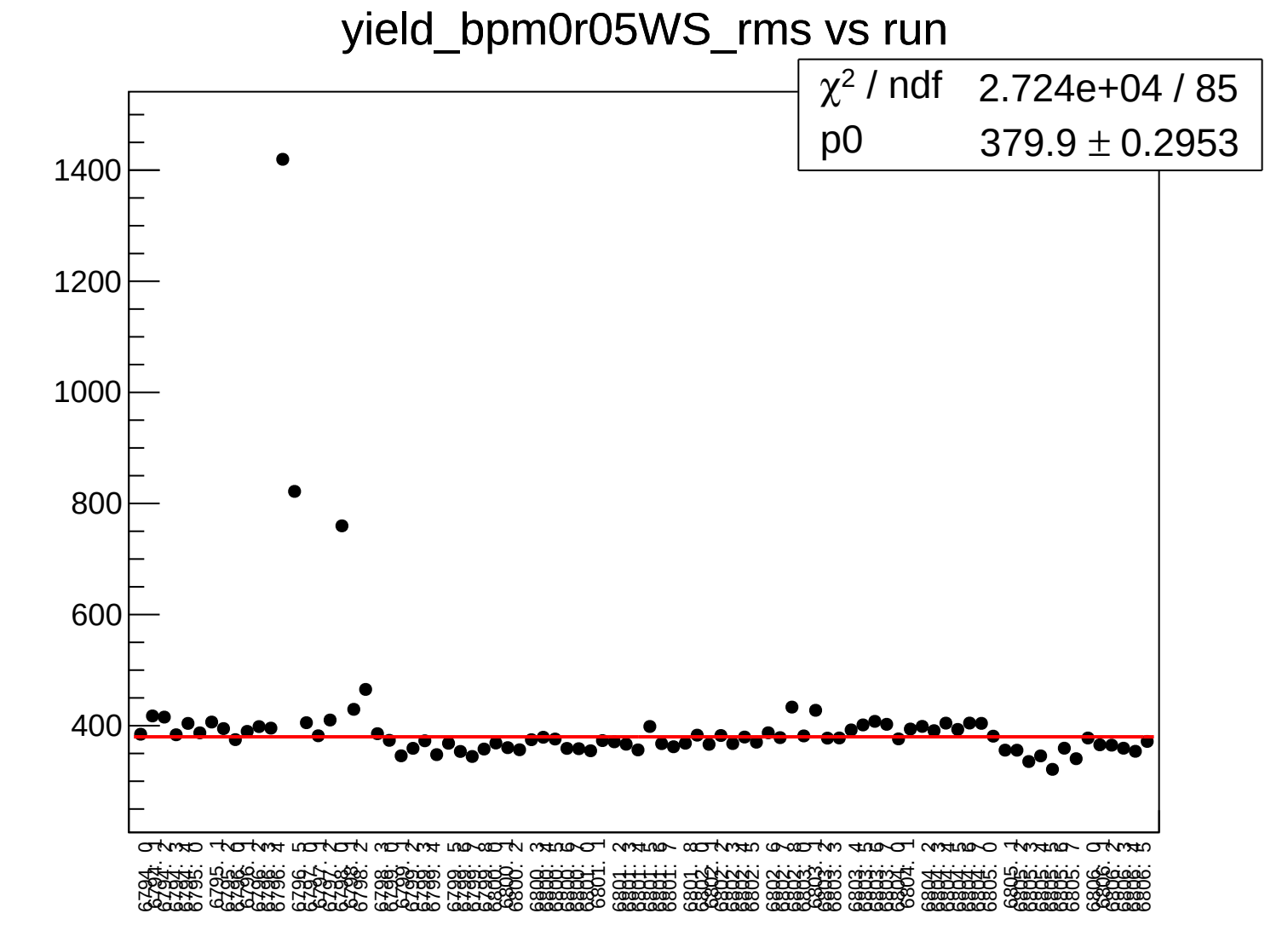

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 7.017e+05 / 85
p0 1.362e+05 ± 0.4317
137.5
137
136.5
136
135.5
pull
Entries 86
Mean −1665
Std Dev 0
200
100
0
−100
−200

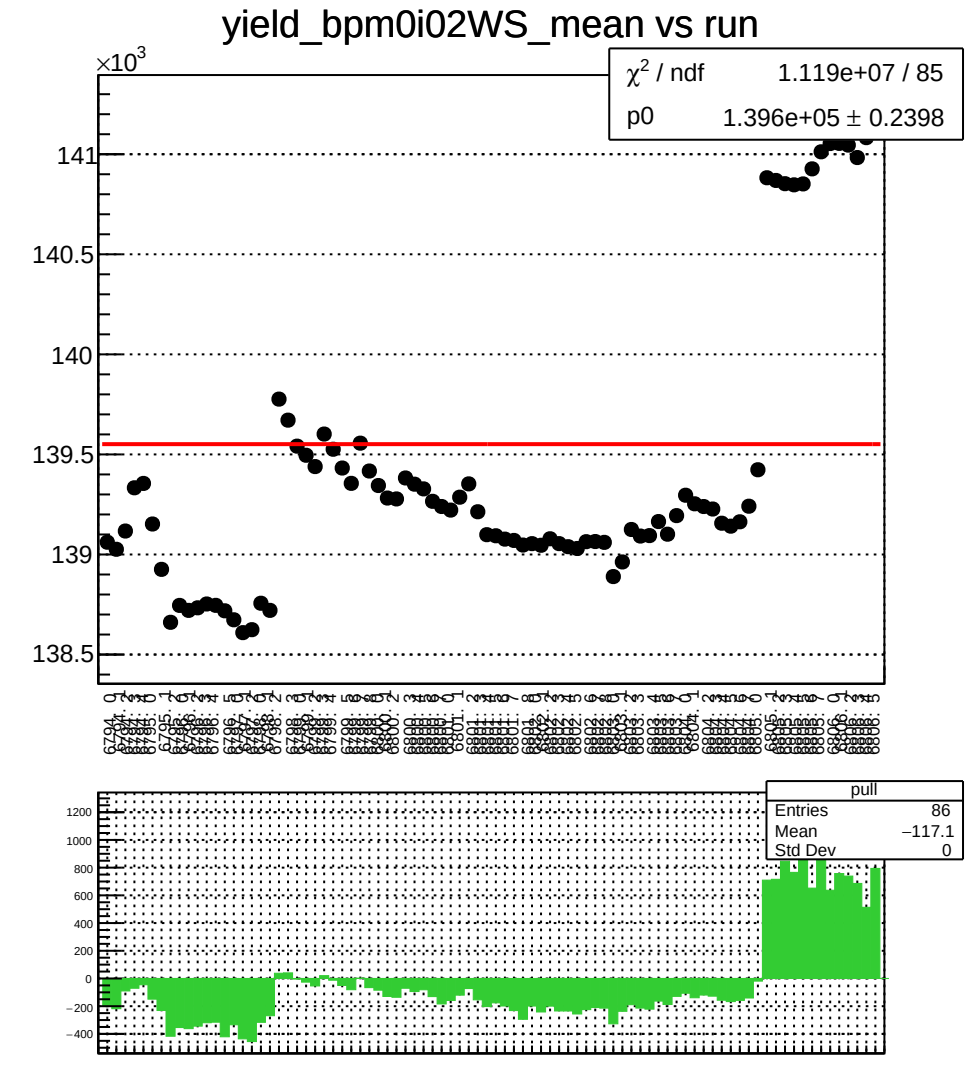

pull1D
Entries 86
Mean −1.144
Std Dev 2.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

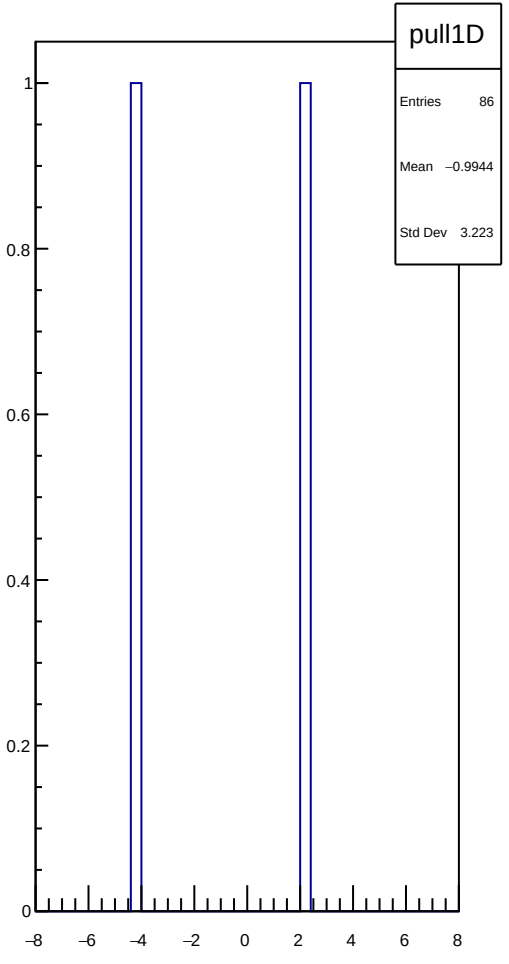

yield_bpm0r03WS_rms vs run
χ² / ndf 6.162e+04 / 85
p0 388.6 ± 0.3053
1800
1600
1400
1200
1000
800
600
400
200

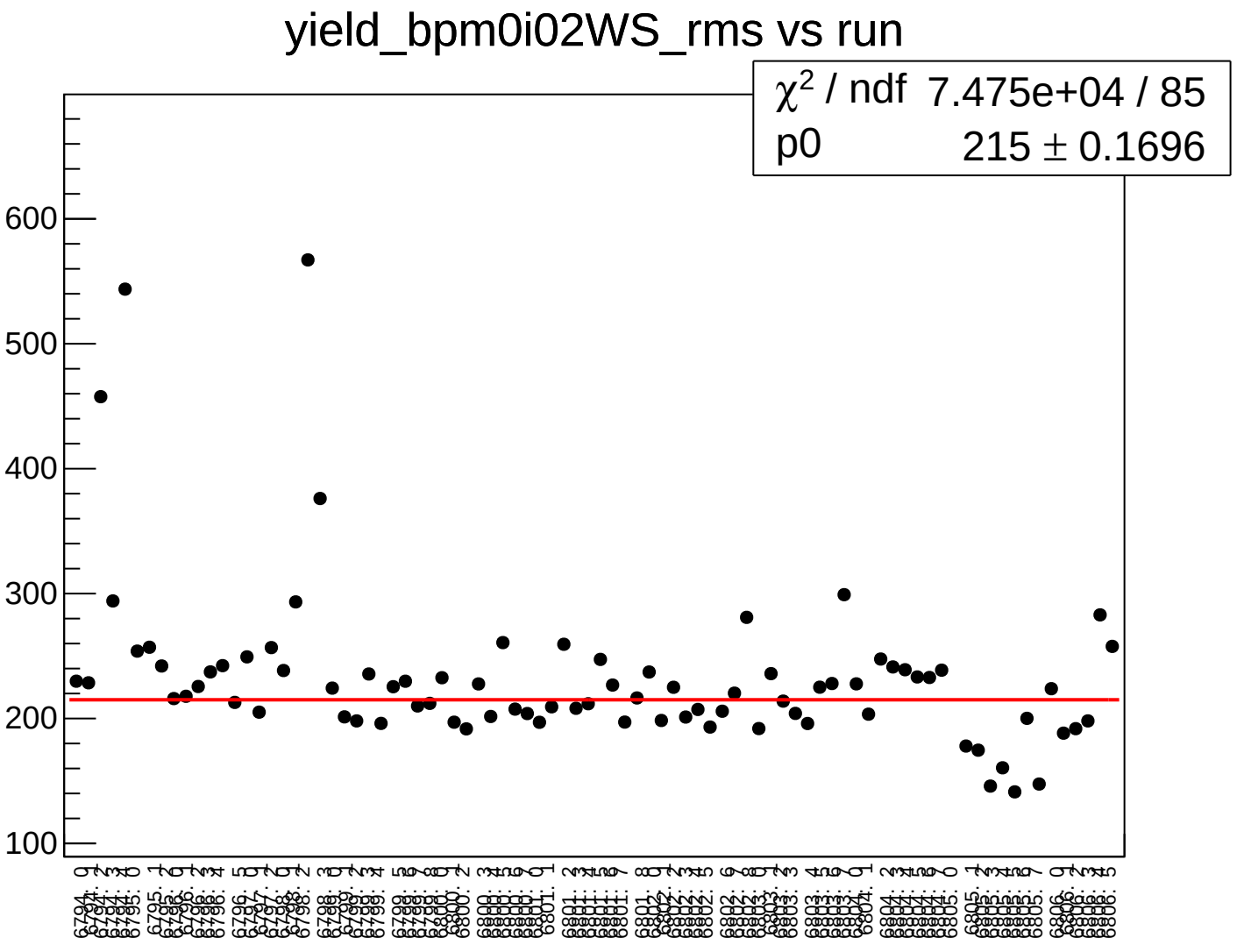

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 4.669e+05 / 85
p0 1.379e+05 ± 0.4176
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
136.4
136.2
pull
Entries 86
Mean −310.6
Std Dev 0
100
50
0
−50
−100
−150

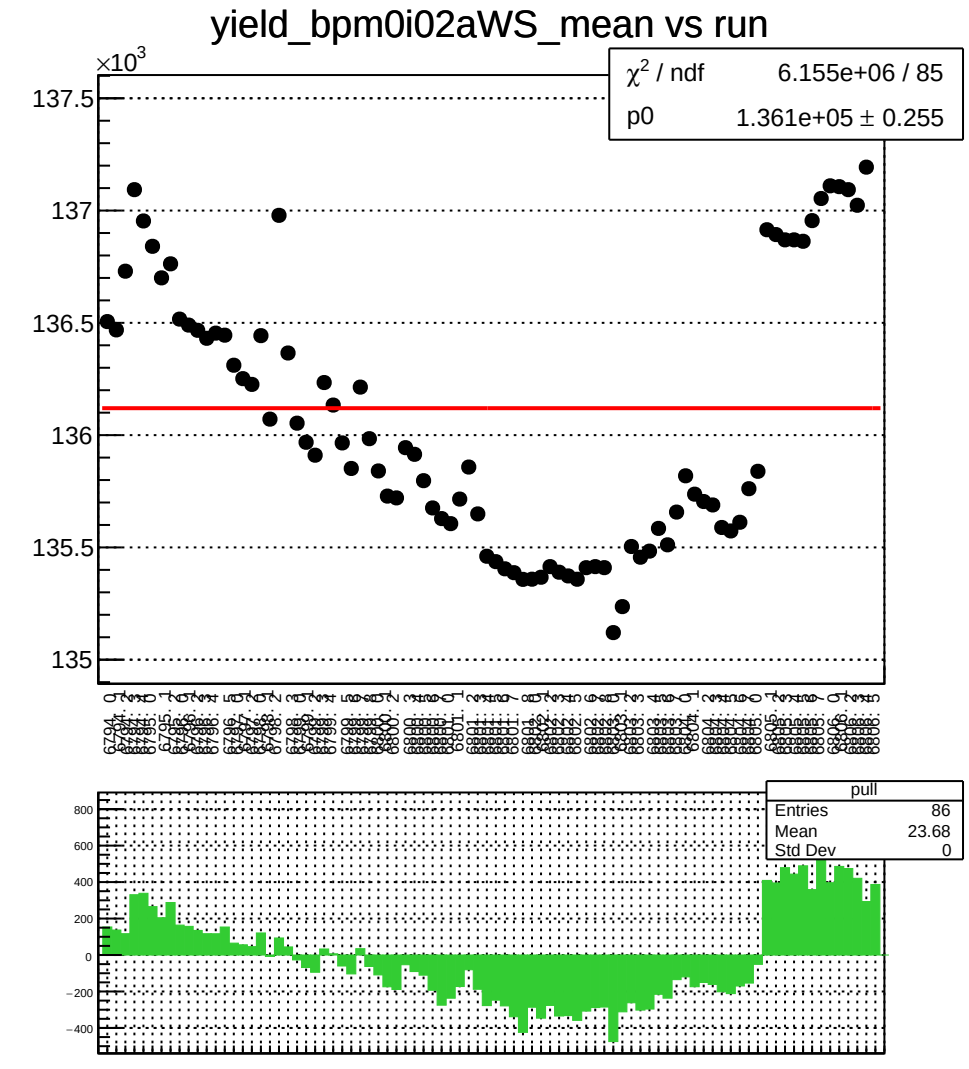

pull1D
Entries 86
Mean 0.8344
Std Dev 2.893
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

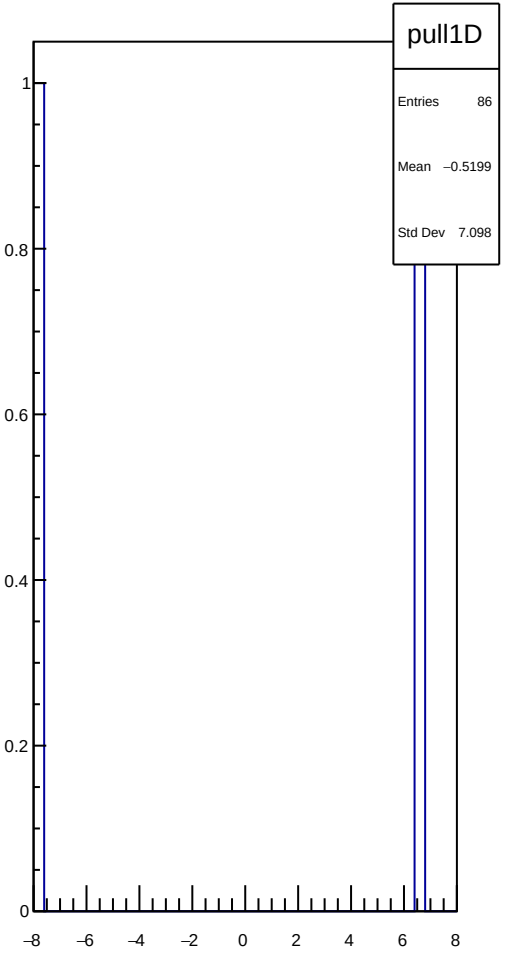

yield_bpm0r05WS_rms vs run
χ² / ndf 2.724e+04 / 85
p0 379.9 ± 0.2953
1400
1200
1000
800
600
400

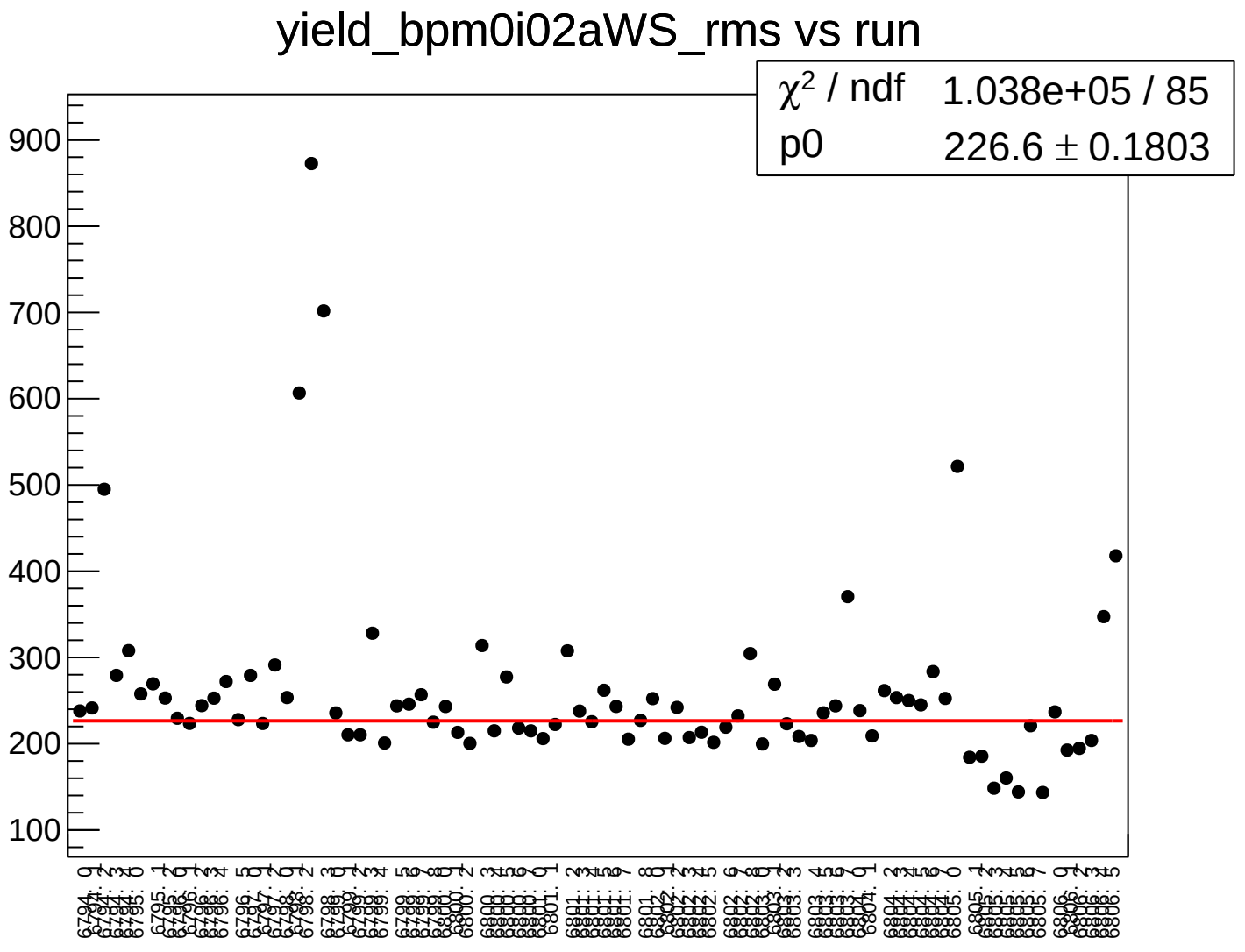

yield_bpm0i02WS_mean vs run
χ² / ndf 1.119e+07 / 85
p0 1.396e+05 ± 0.2398
×10³
141
140.5
140
139.5
139
138.5
pull
Entries 86
Mean −117.1
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

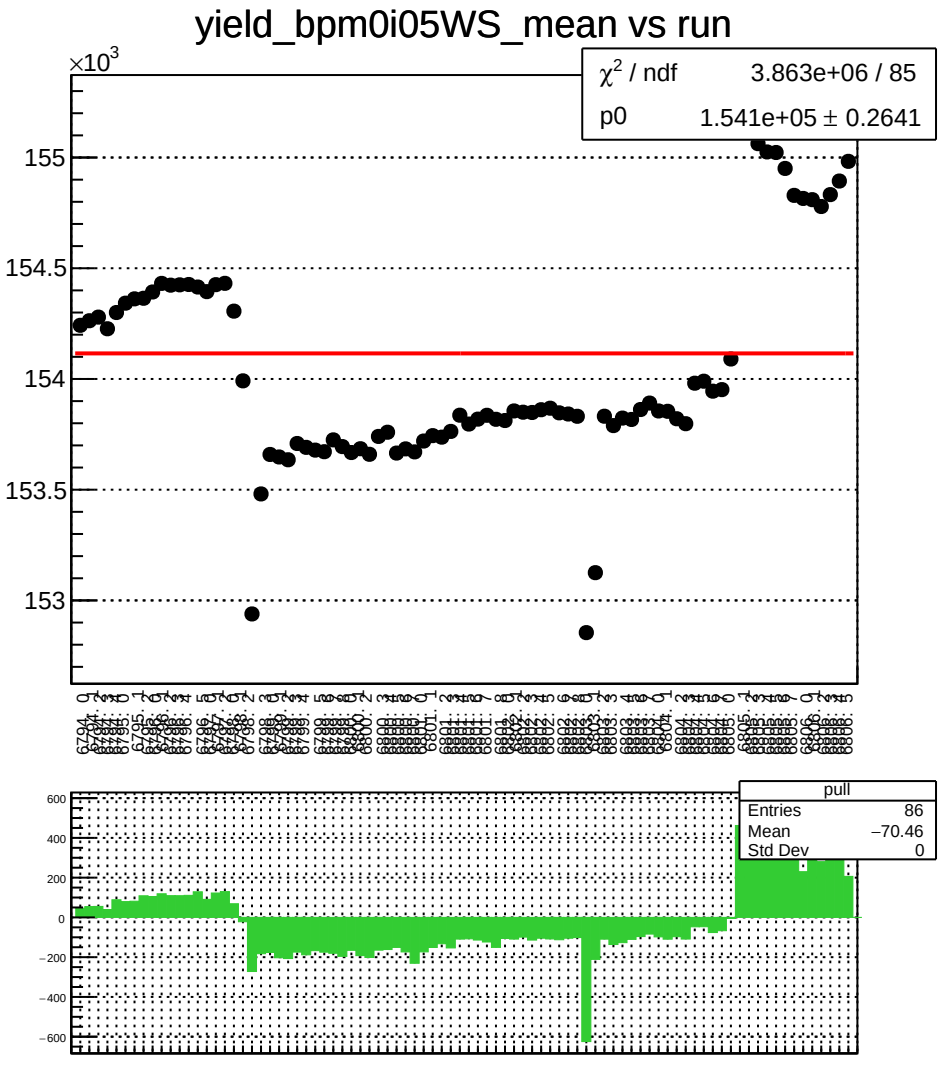

pull1D
Entries 86
Mean −0.9944
Std Dev 3.223
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

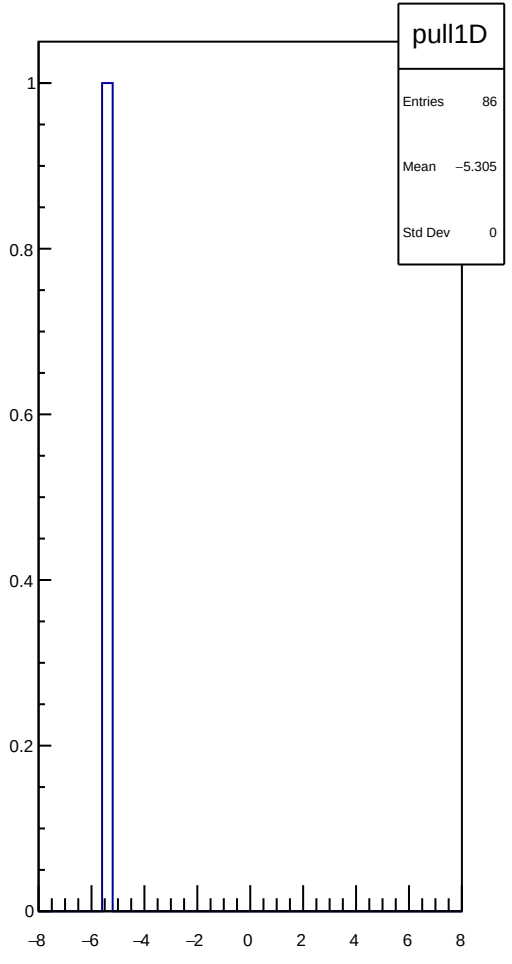

yield_bpm0i02WS_rms vs run
χ² / ndf 7.475e+04 / 85
p0 215 ± 0.1696
600
500
400
300
200
100

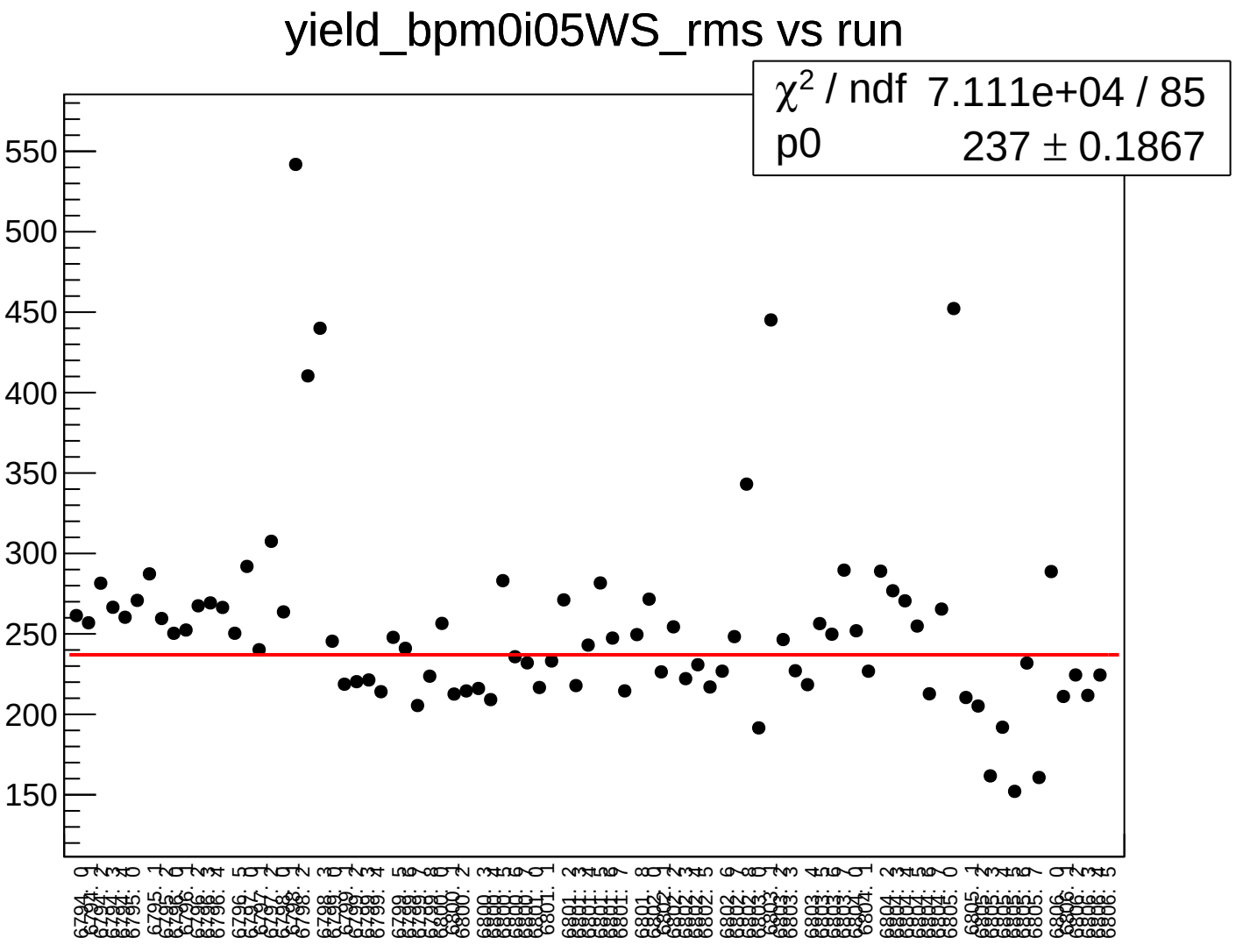

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 6.155e+06 / 85
p0 1.361e+05 ± 0.255
137.5
137
136.5
136
135.5
135
pull
Entries 86
Mean 23.68
Std Dev 0
800
600
400
200
0
−200
−400

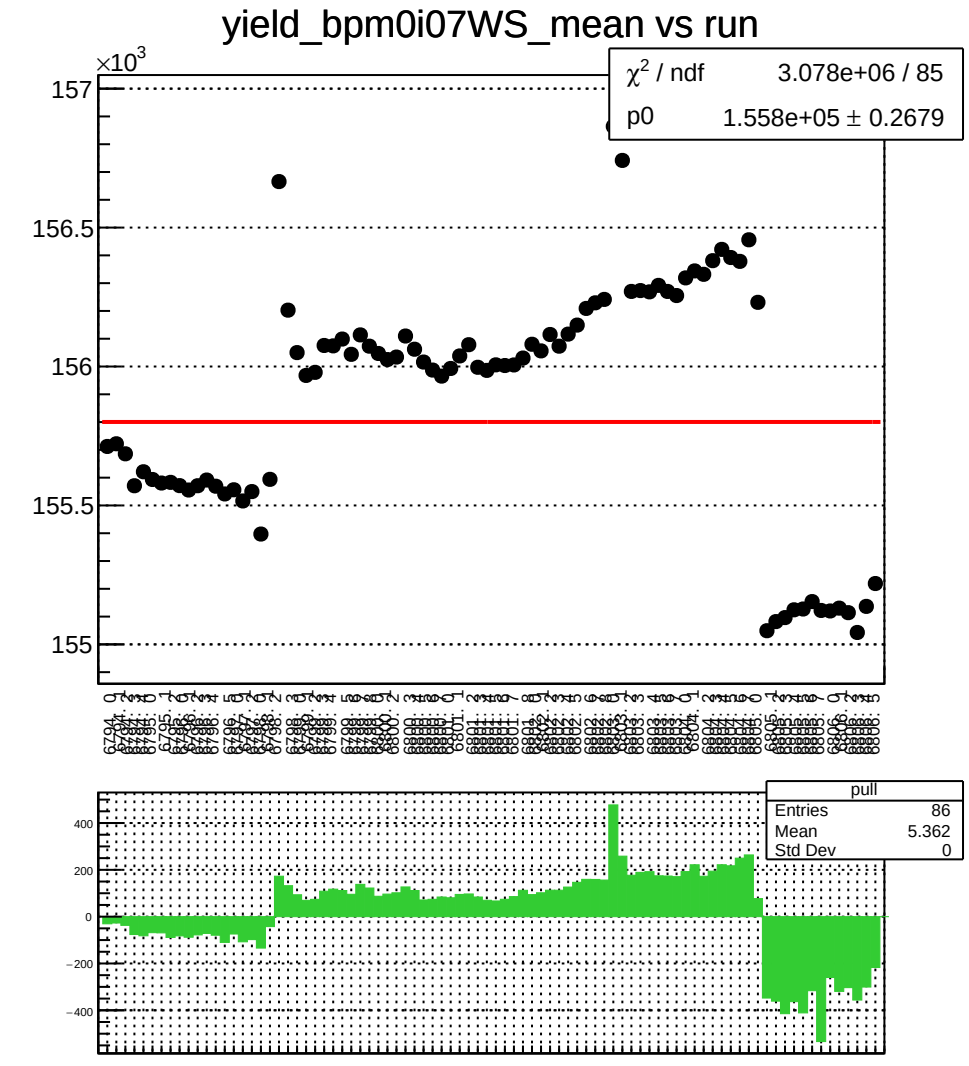

pull1D
Entries 86
Mean −0.5199
Std Dev 7.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

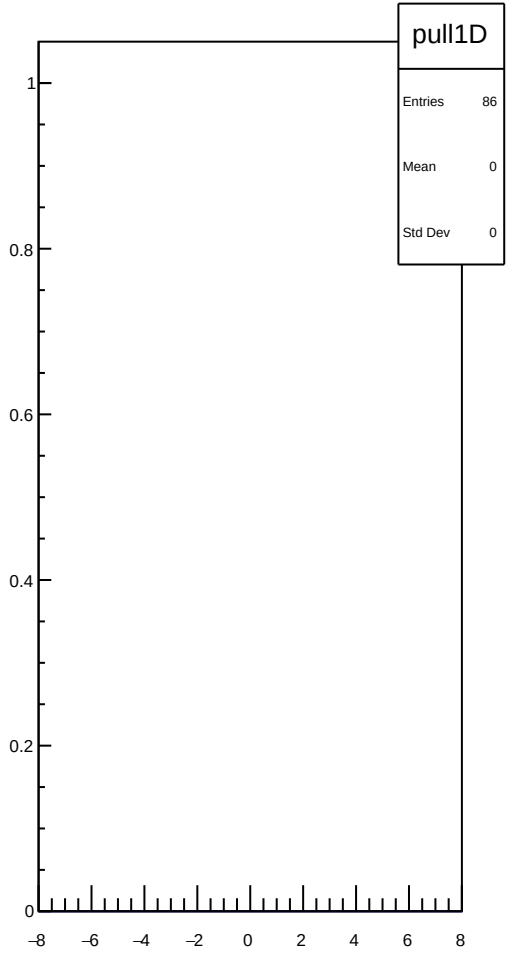

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.038e+05 / 85
p0 226.6 ± 0.1803
900
800
700
600
500
400
300
200
100

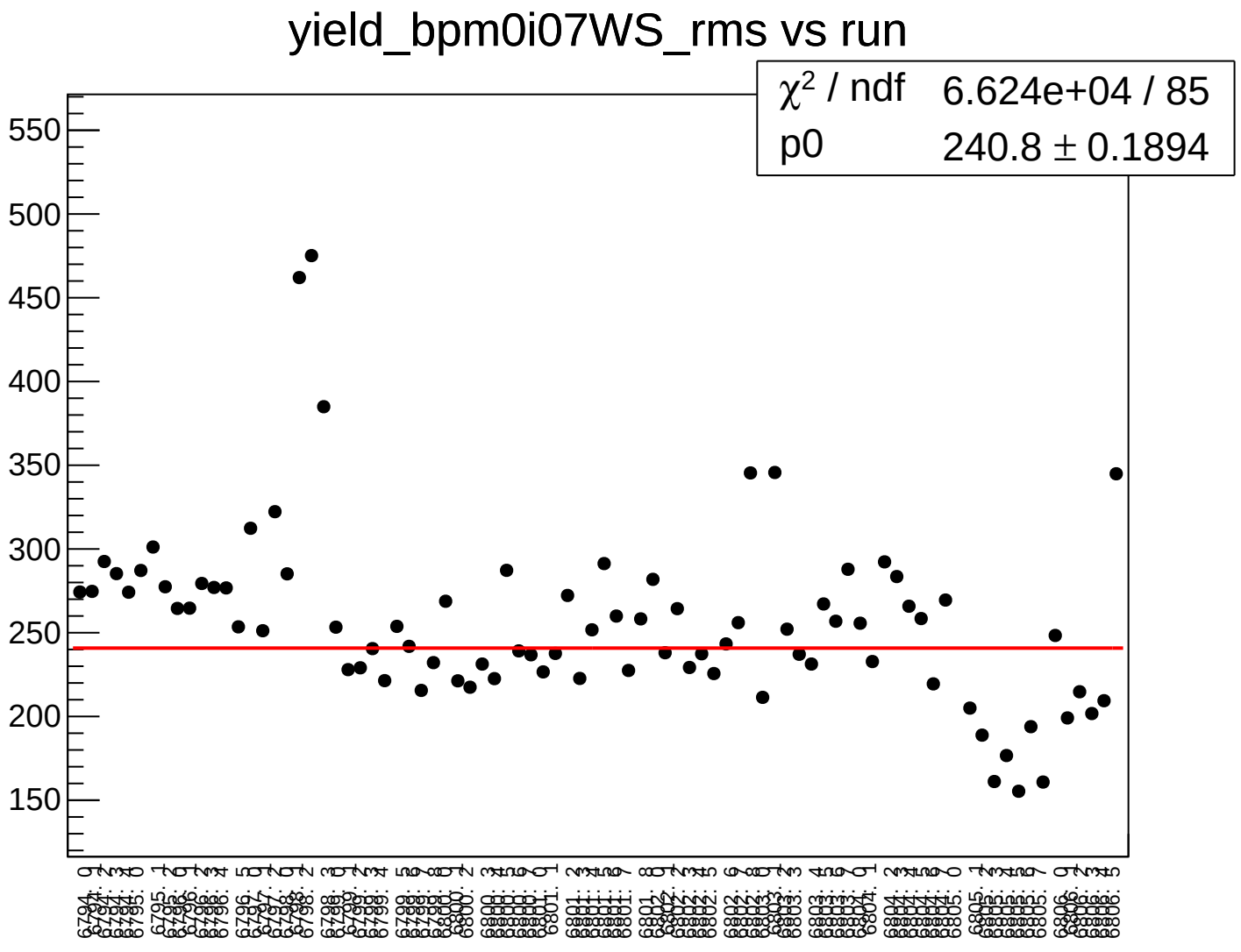

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.863e+06 / 85
p0 1.541e+05 ± 0.2641
155
154.5
154
153.5
153
pull
Entries 86
Mean −70.46
Std Dev 0
600
400
200
0
−200
−400
−600

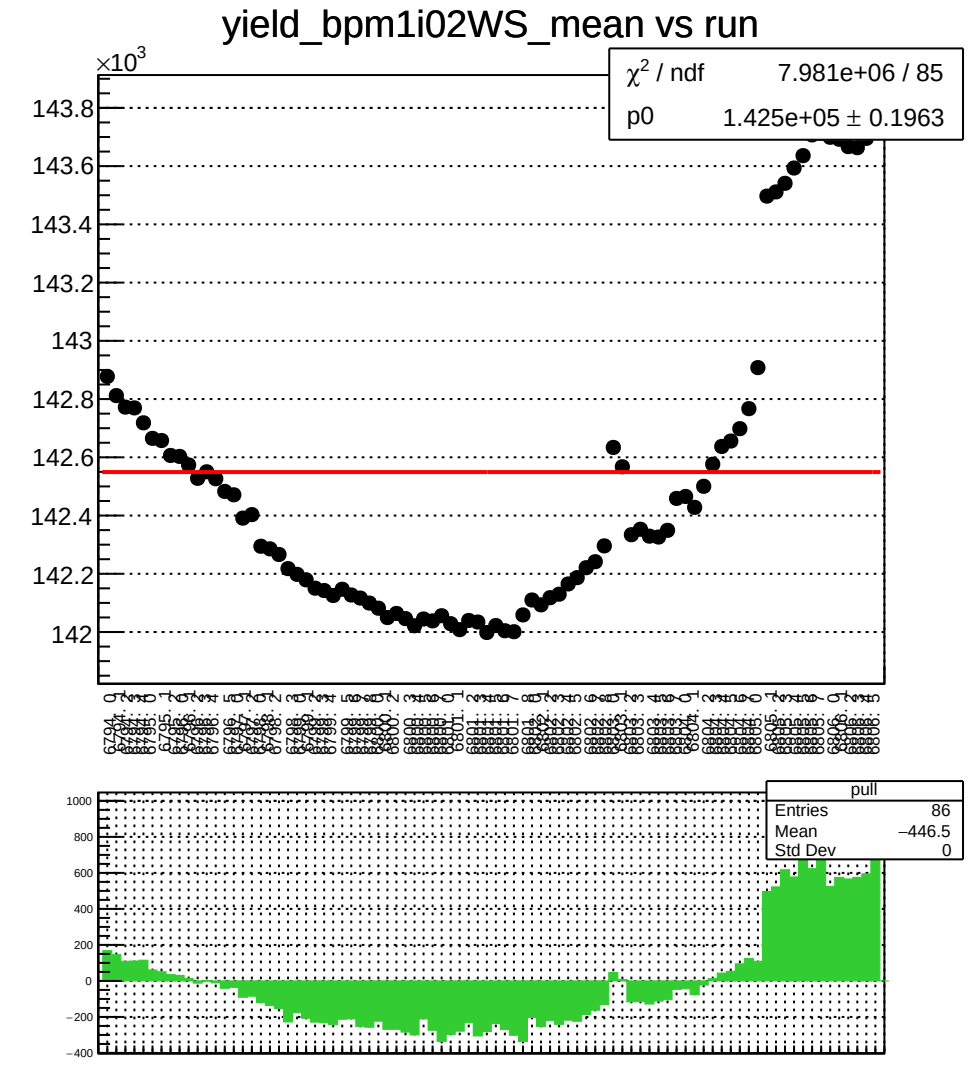

pull1D
Entries 86
Mean −5.305
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

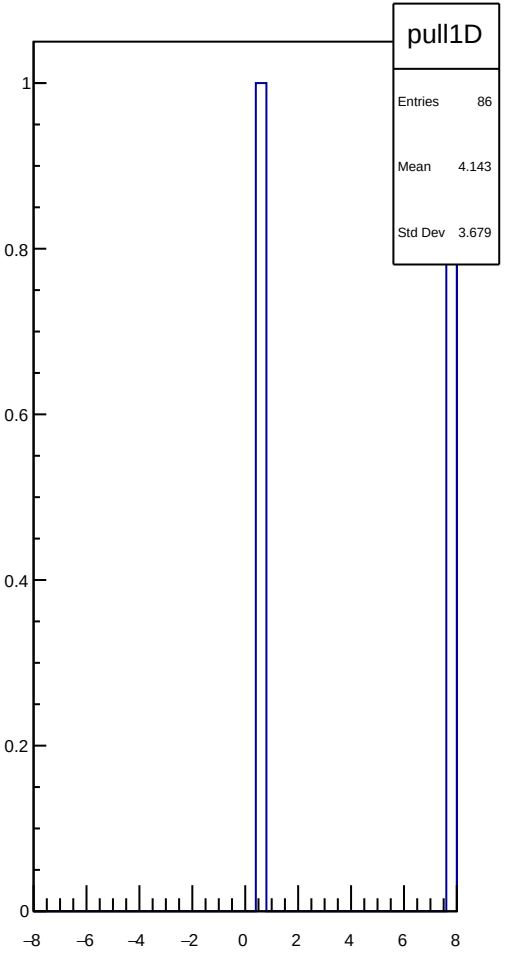

yield_bpm0i05WS_rms vs run
χ² / ndf 7.111e+04 / 85
p0 237 ± 0.1867
550
500
450
400
350
300
250
200
150

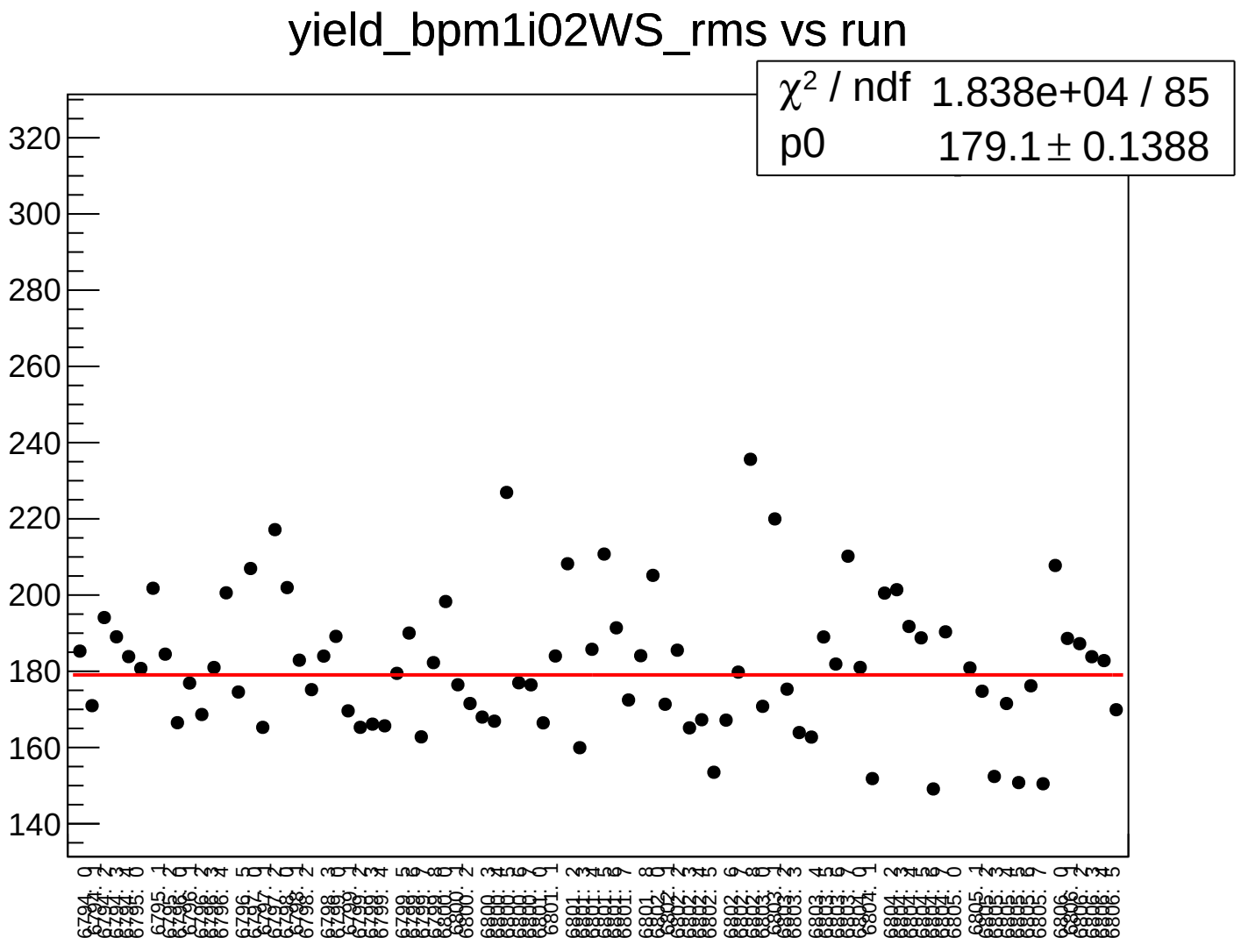

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.078e+06 / 85
p0 1.558e+05 ± 0.2679
157
156.5
156
155.5
155
pull
Entries 86
Mean 5.362
Std Dev 0
400
200
0
−200
−400

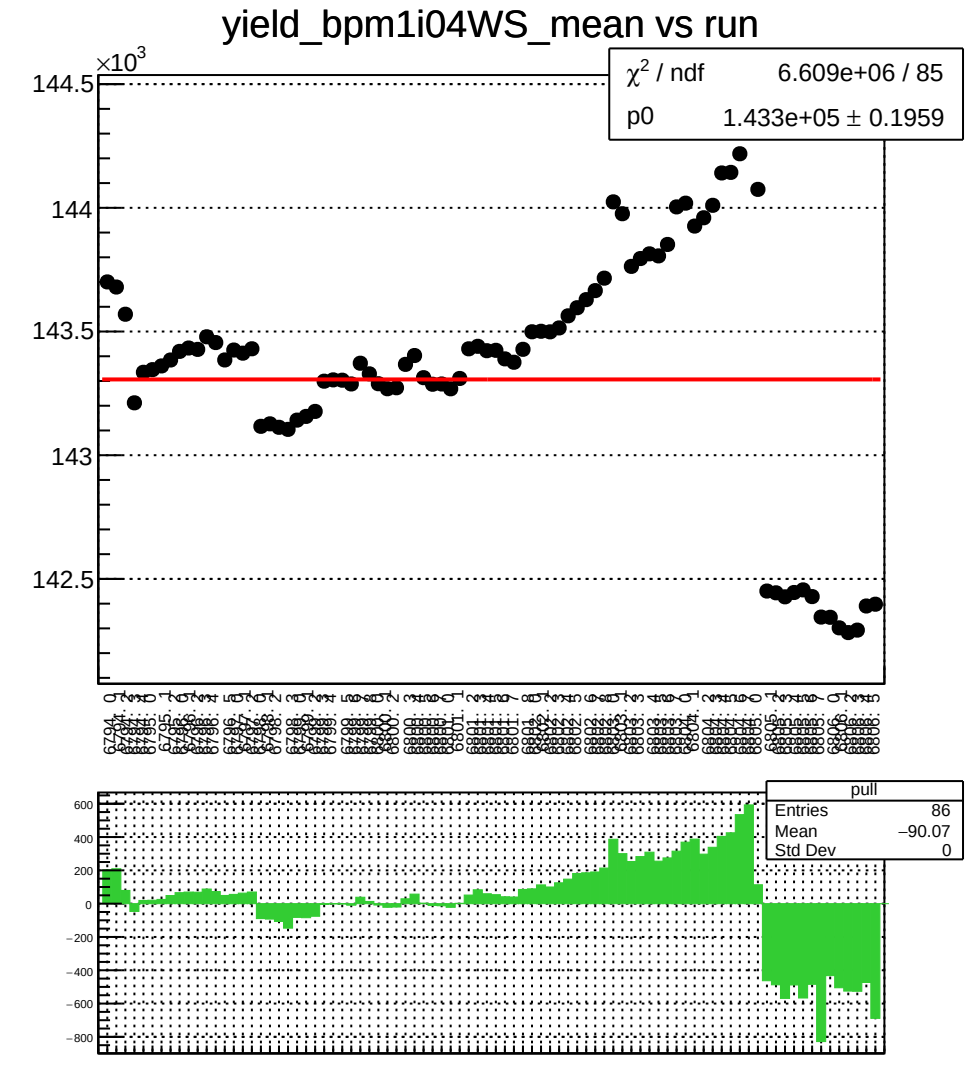

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

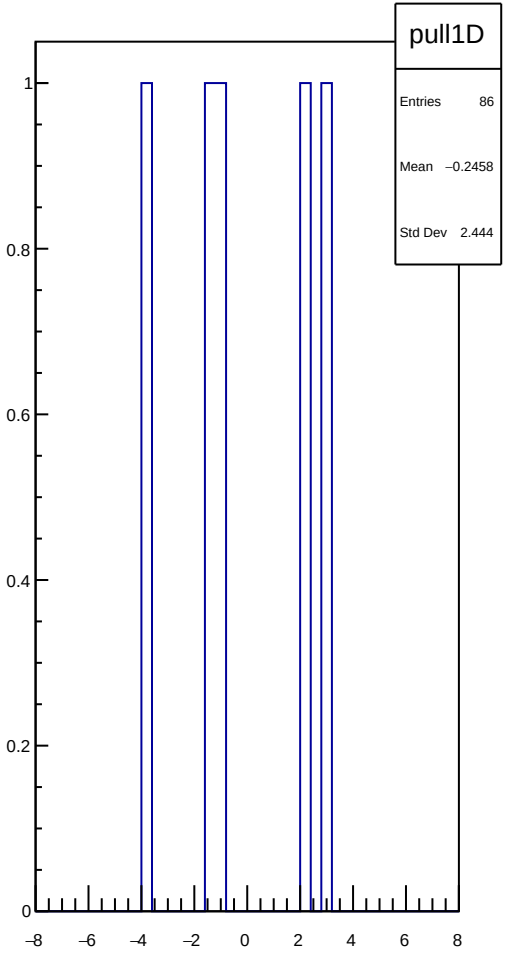

yield_bpm0i07WS_rms vs run
χ² / ndf 6.624e+04 / 85
p0 240.8 ± 0.1894
550
500
450
400
350
300
250
200
150

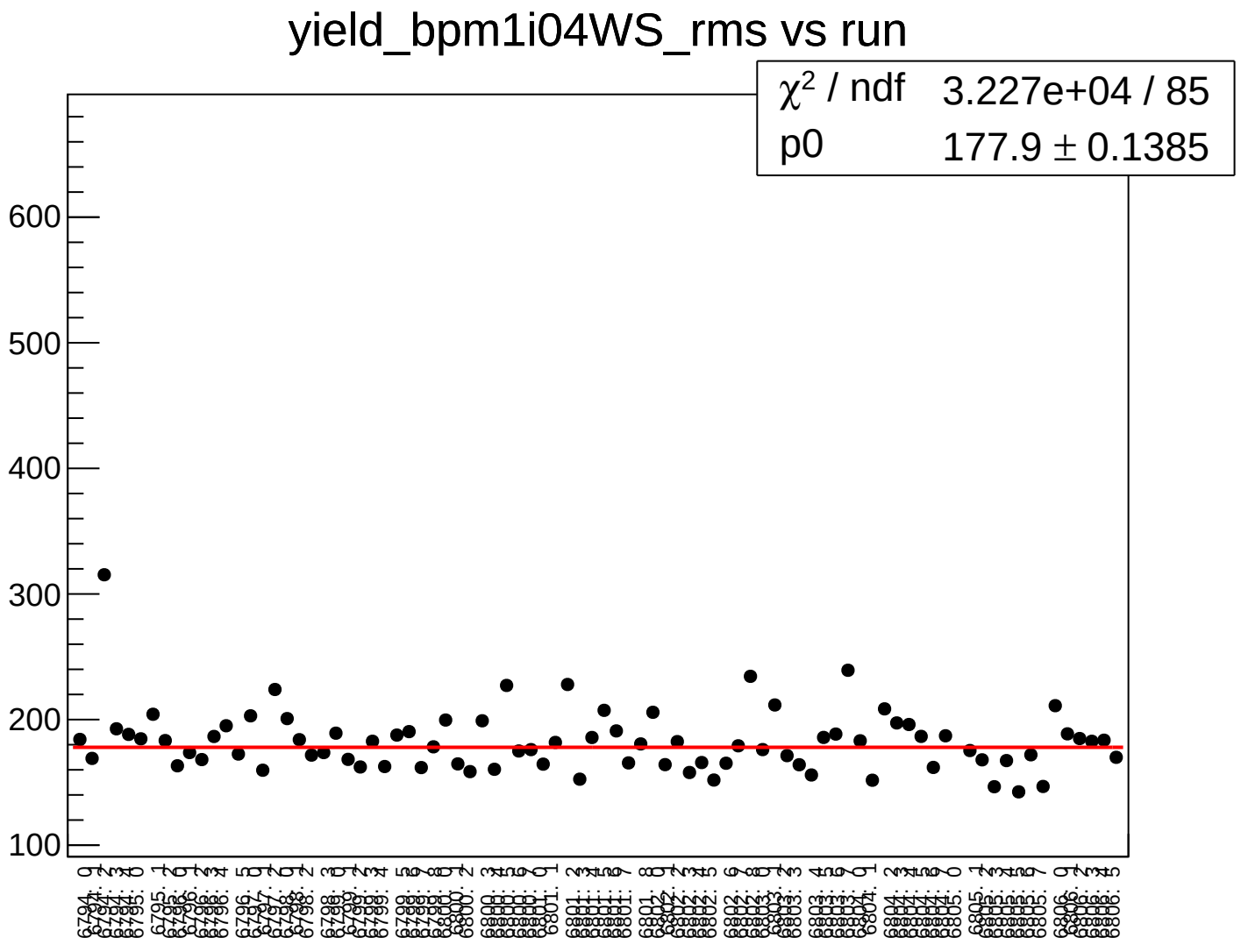

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 7.981e+06 / 85
p0 1.425e+05 ± 0.1963
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
pull
Entries 86
Mean −446.5
Std Dev 0
1000
800
600
400
200
0
−200
−400

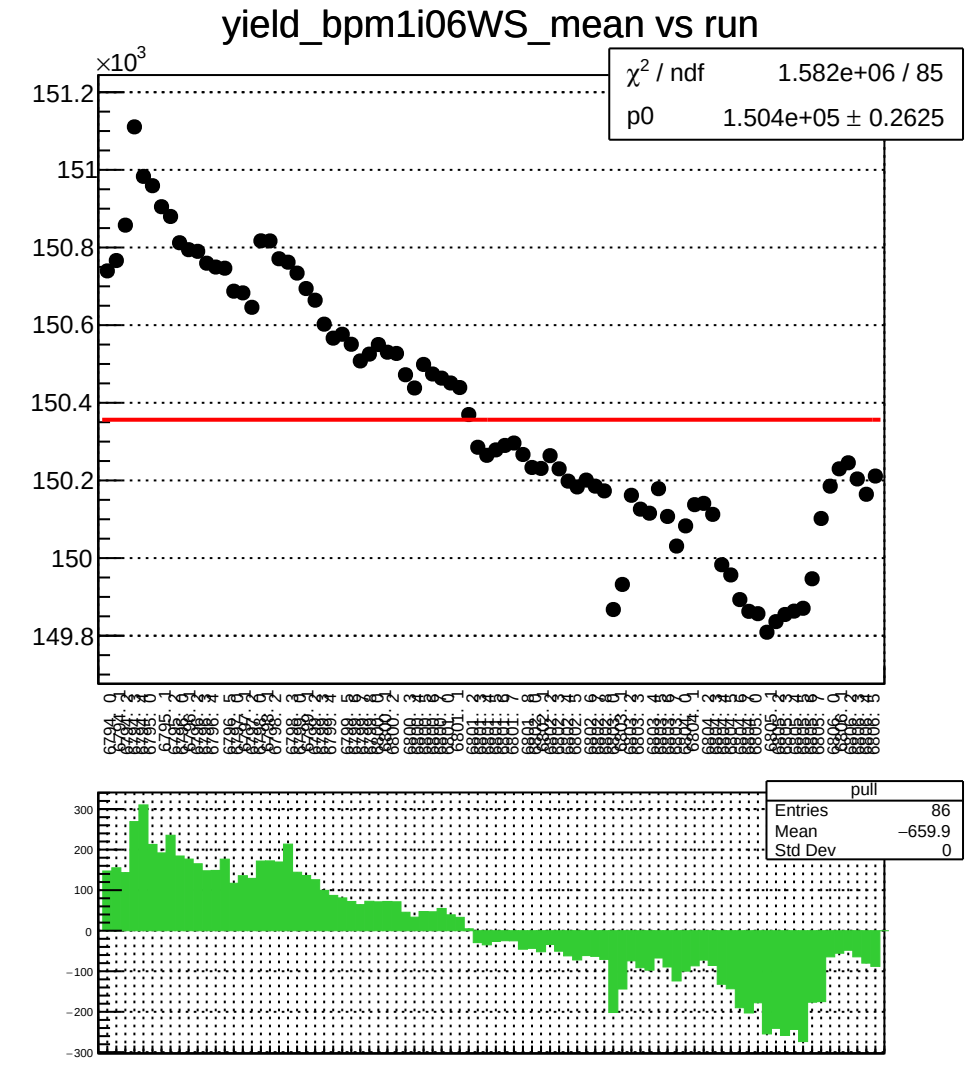

pull1D
Entries 86
Mean 4.143
Std Dev 3.679
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

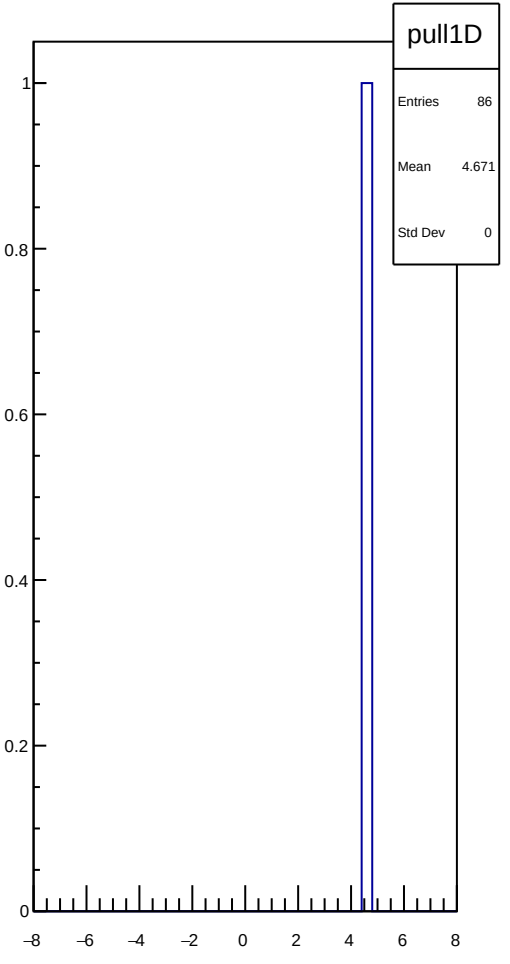

yield_bpm1i02WS_rms vs run
χ² / ndf 1.838e+04 / 85
p0 179.1 ± 0.1388
320
300
280
260
240
220
200
180
160
140

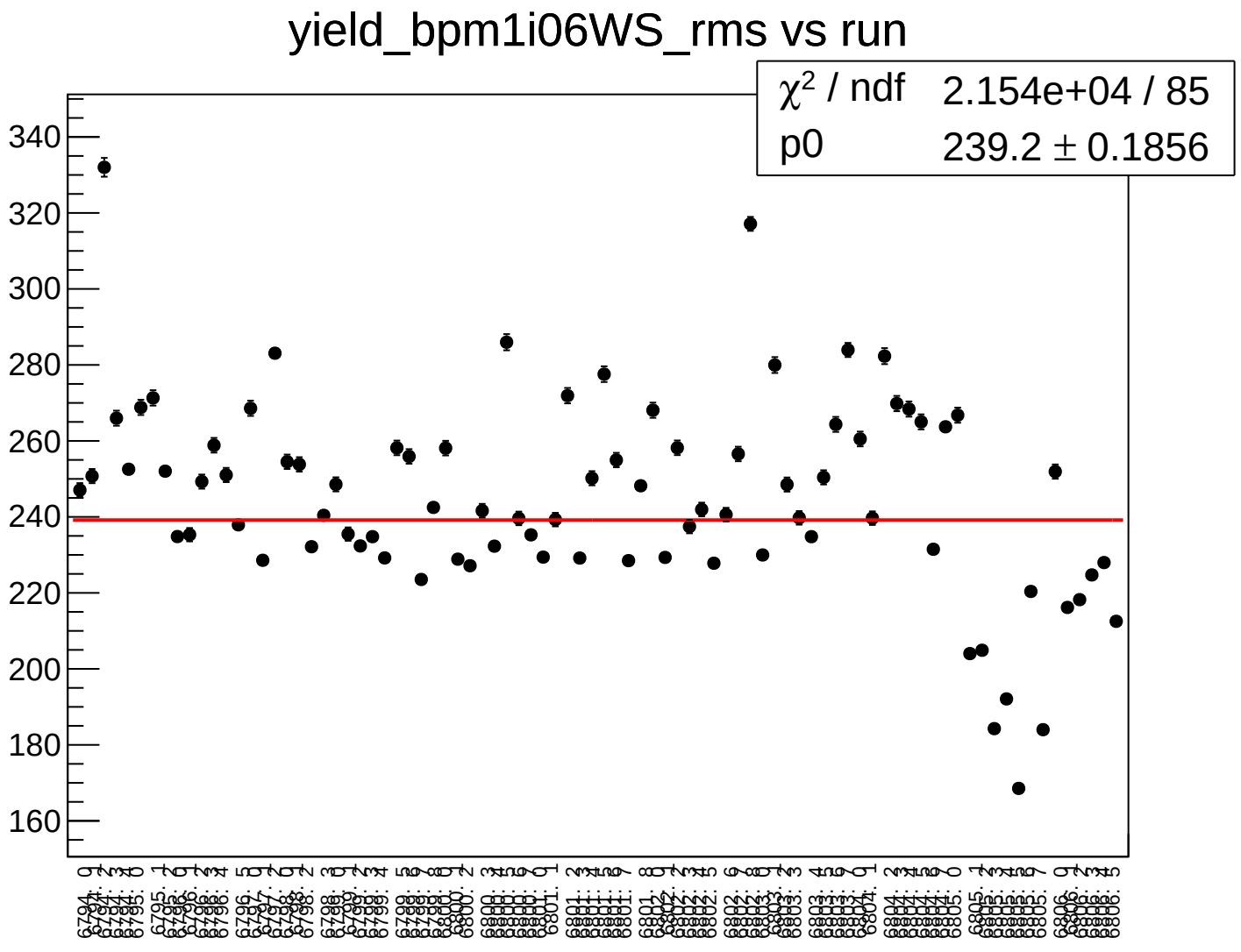

yield_bpm1i04WS_mean vs run
×10^3
144.5
144
143.5
143
142.5
χ² / ndf 6.609e+06 / 85
p0 1.433e+05 ± 0.1959
pull
Entries 86
Mean −90.07
Std Dev 0
600
400
200
0
−200
−400
−600
−800

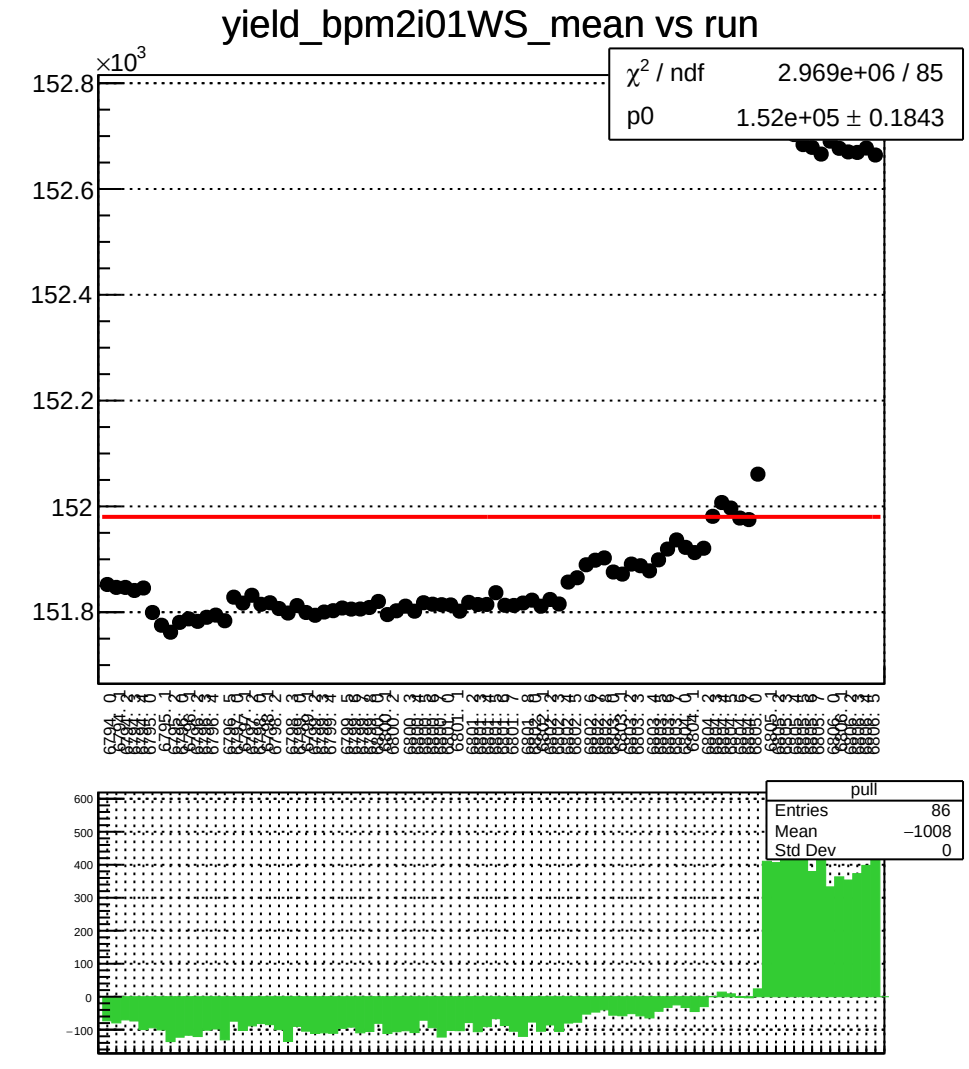

pull1D
Entries 86
Mean −0.2458
Std Dev 2.444
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

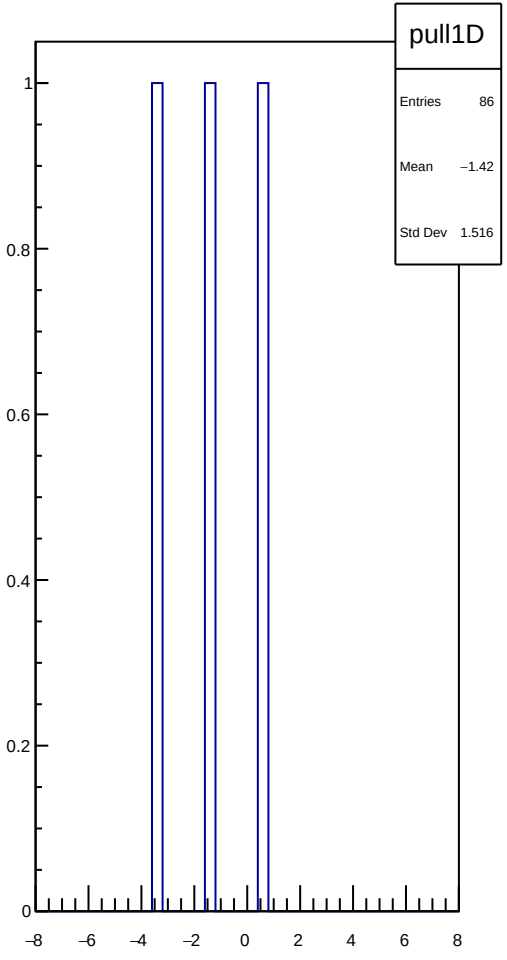

yield_bpm1i04WS_rms vs run
χ² / ndf 3.227e+04 / 85
p0 177.9 ± 0.1385
600
500
400
300
200
100

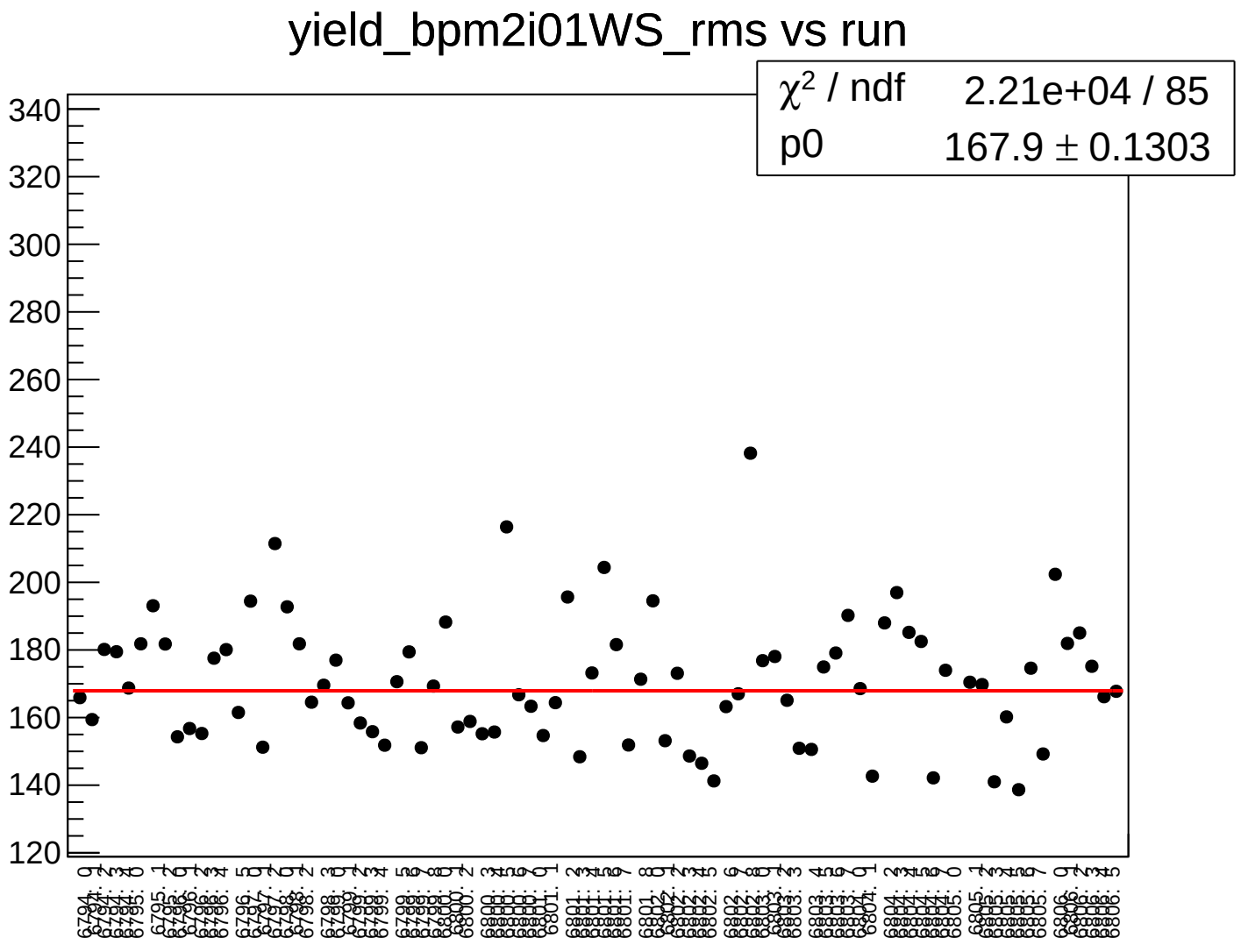

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.582e+06 / 85
p0 1.504e+05 ± 0.2625
151.2
151
150.8
150.6
150.4
150.2
150
149.8
pull
Entries 86
Mean −659.9
Std Dev 0
300
200
100
0
−100
−200
−300

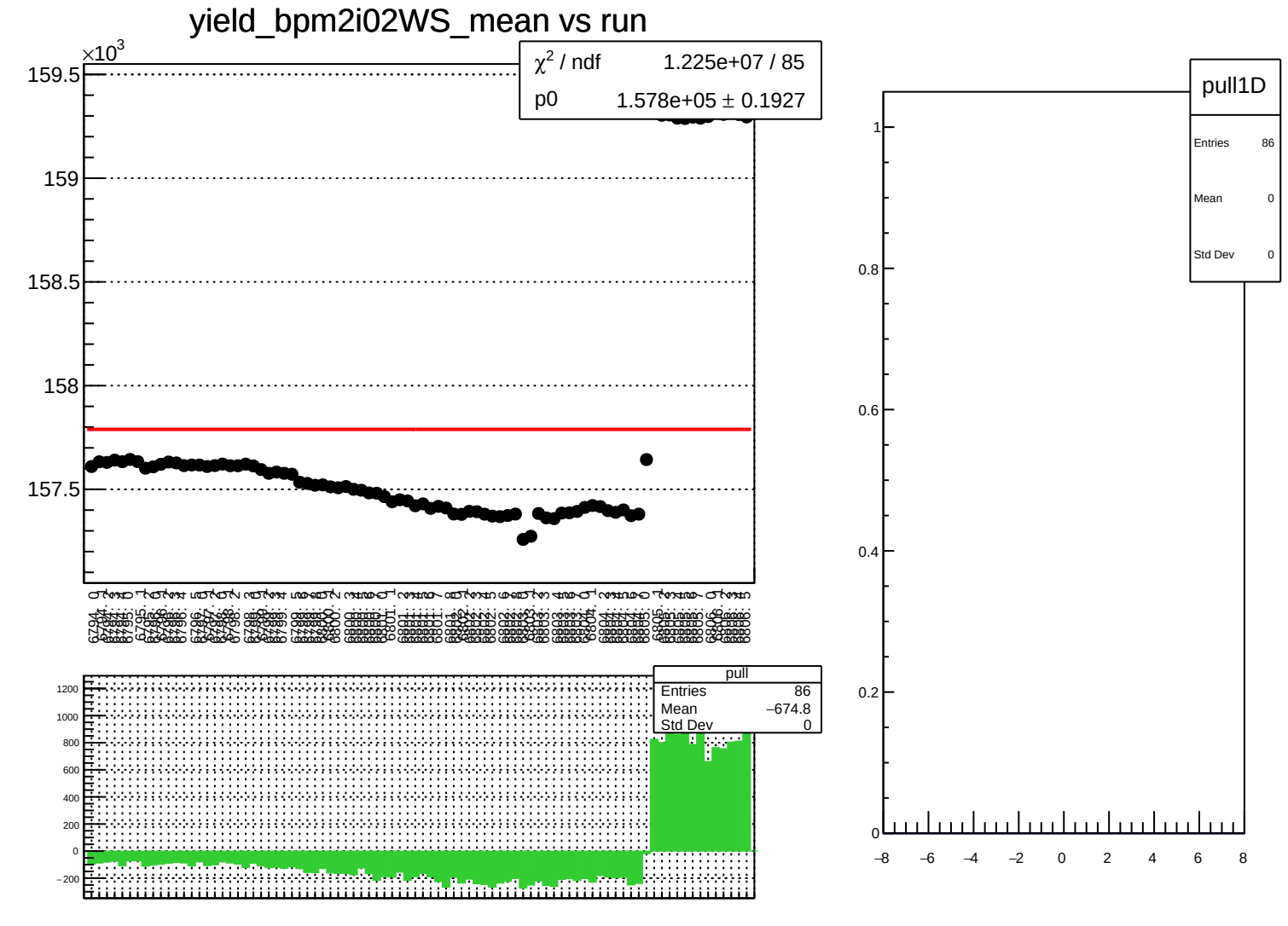

pull1D
Entries 86
Mean 4.671
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

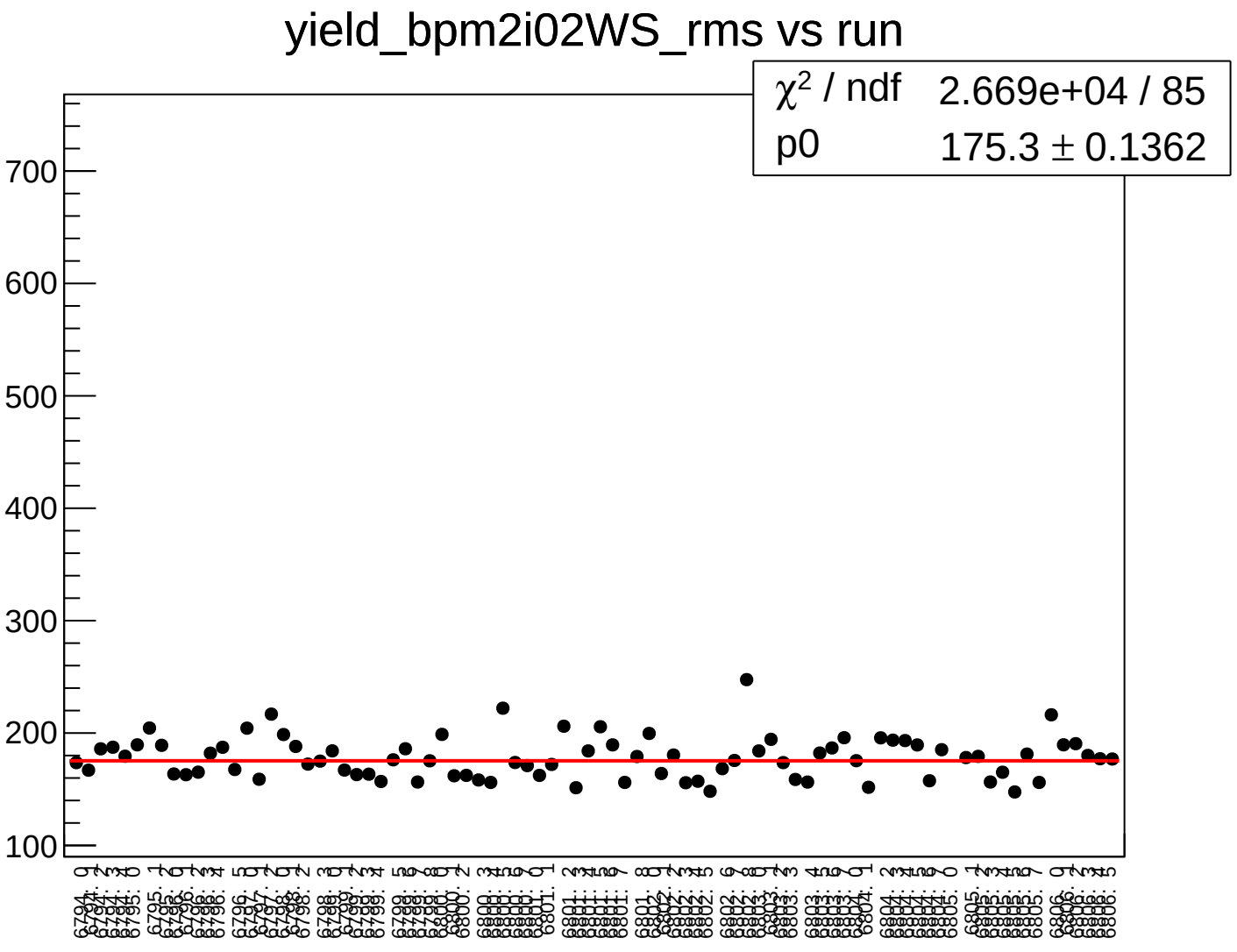

yield_bpm1i06WS_rms vs run
χ² / ndf 2.154e+04 / 85
p0 239.2 ± 0.1856
340
320
300
280
260
240
220
200
180
160

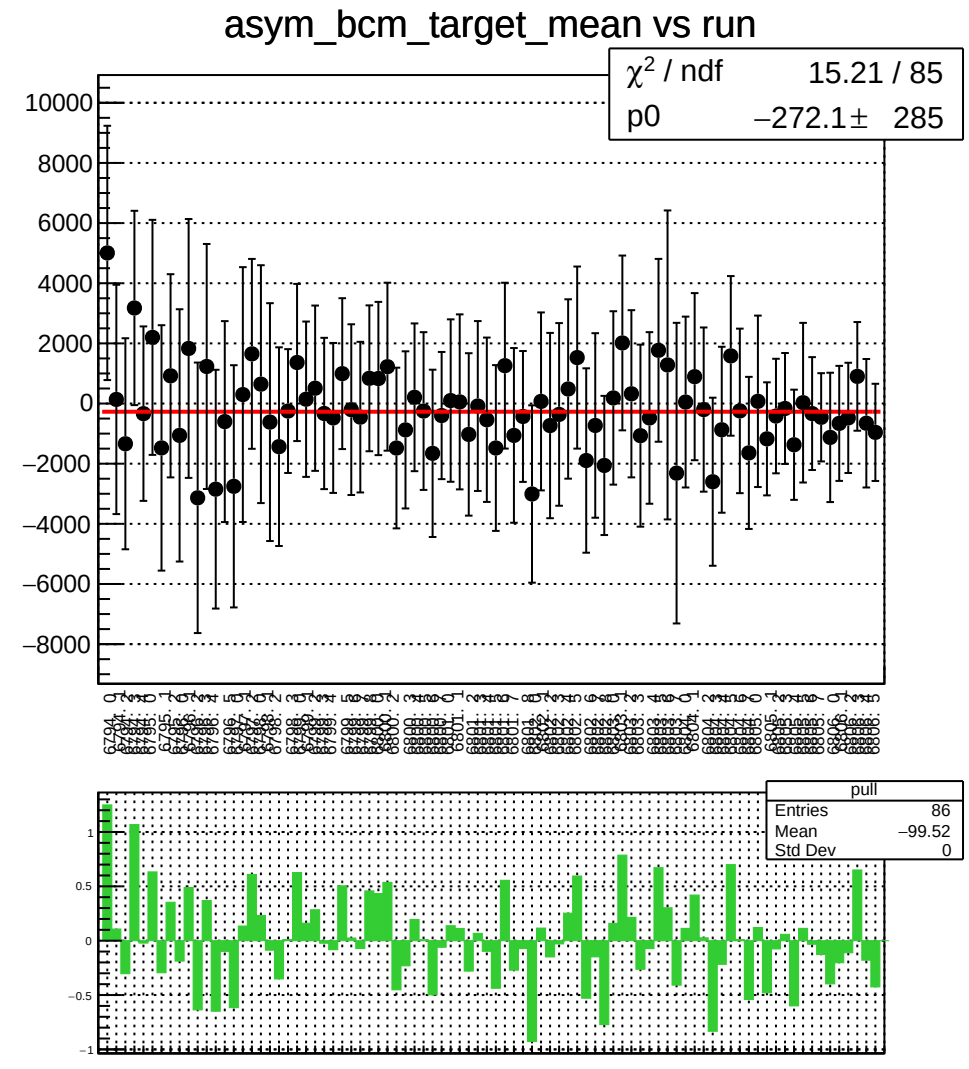

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.969e+06 / 85
p0 1.52e+05 ± 0.1843
152.8
152.6
152.4
152.2
152
151.8
pull
Entries 86
Mean −1008
Std Dev 0
600
500
400
300
200
100
0
−100

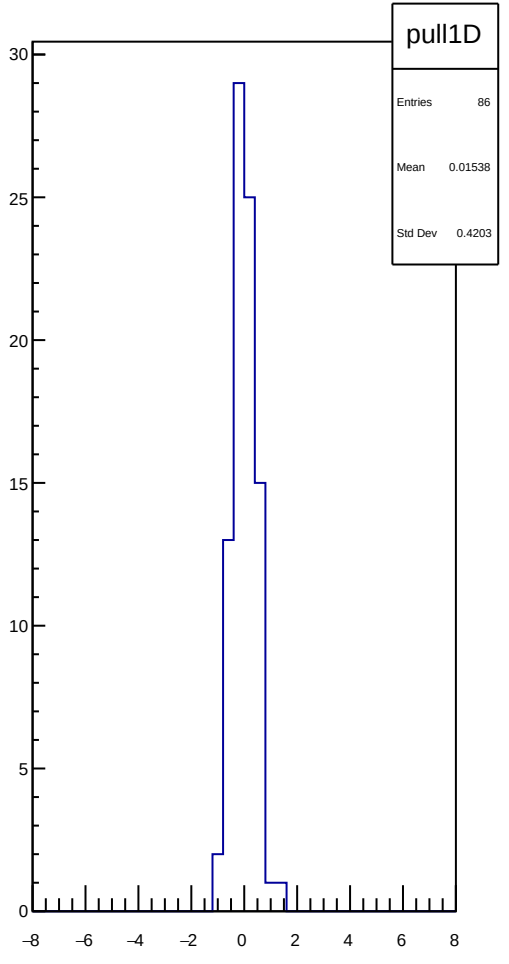

pull1D
Entries 86
Mean −1.42
Std Dev 1.516
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

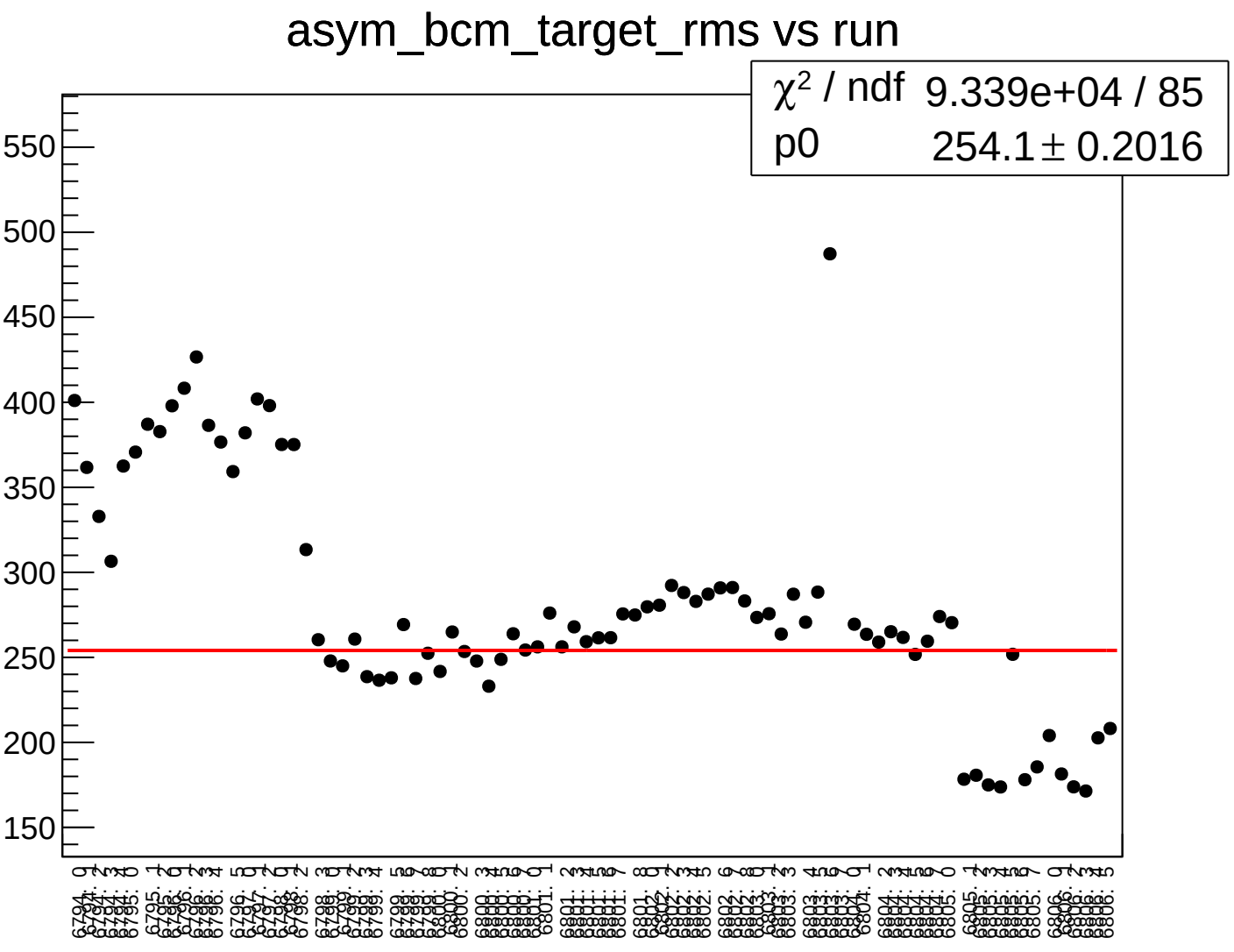

yield_bpm2i01WS_rms vs run
χ² / ndf 2.21e+04 / 85
p0 167.9 ± 0.1303
340
320
300
280
260
240
220
200
180
160
140
120

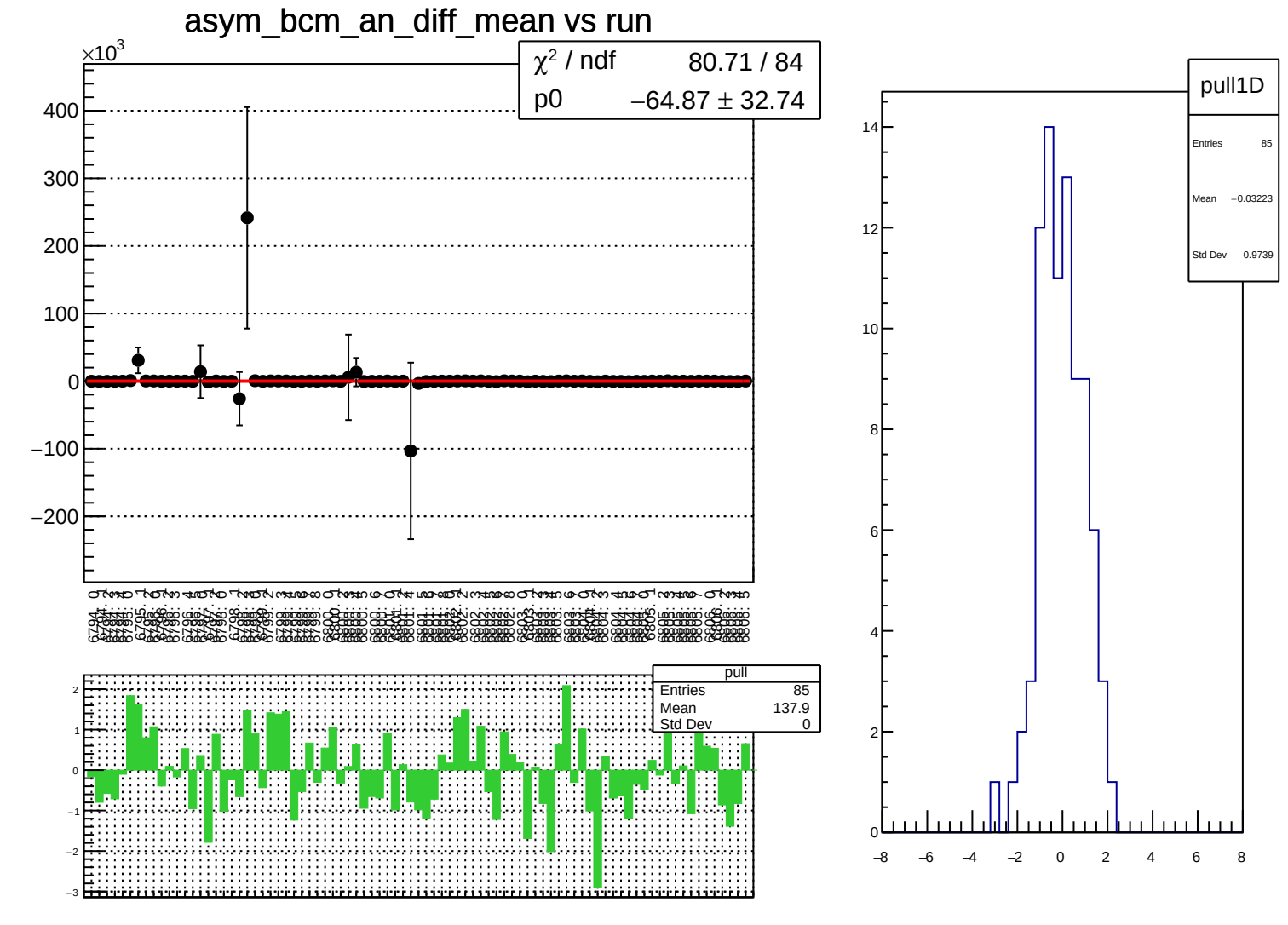

yield_bpm2i02WS_mean vs run
×10^3
159.5
159
158.5
158
157.5
χ² / ndf 1.225e+07 / 85
p0 1.578e+05 ± 0.1927
pull
Entries 86
Mean −674.8
Std Dev 0
1200
1000
800
600
400
200
0
−200
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02WS_rms vs run
χ² / ndf 2.669e+04 / 85
p0 175.3 ± 0.1362
700
600
500
400
300
200
100

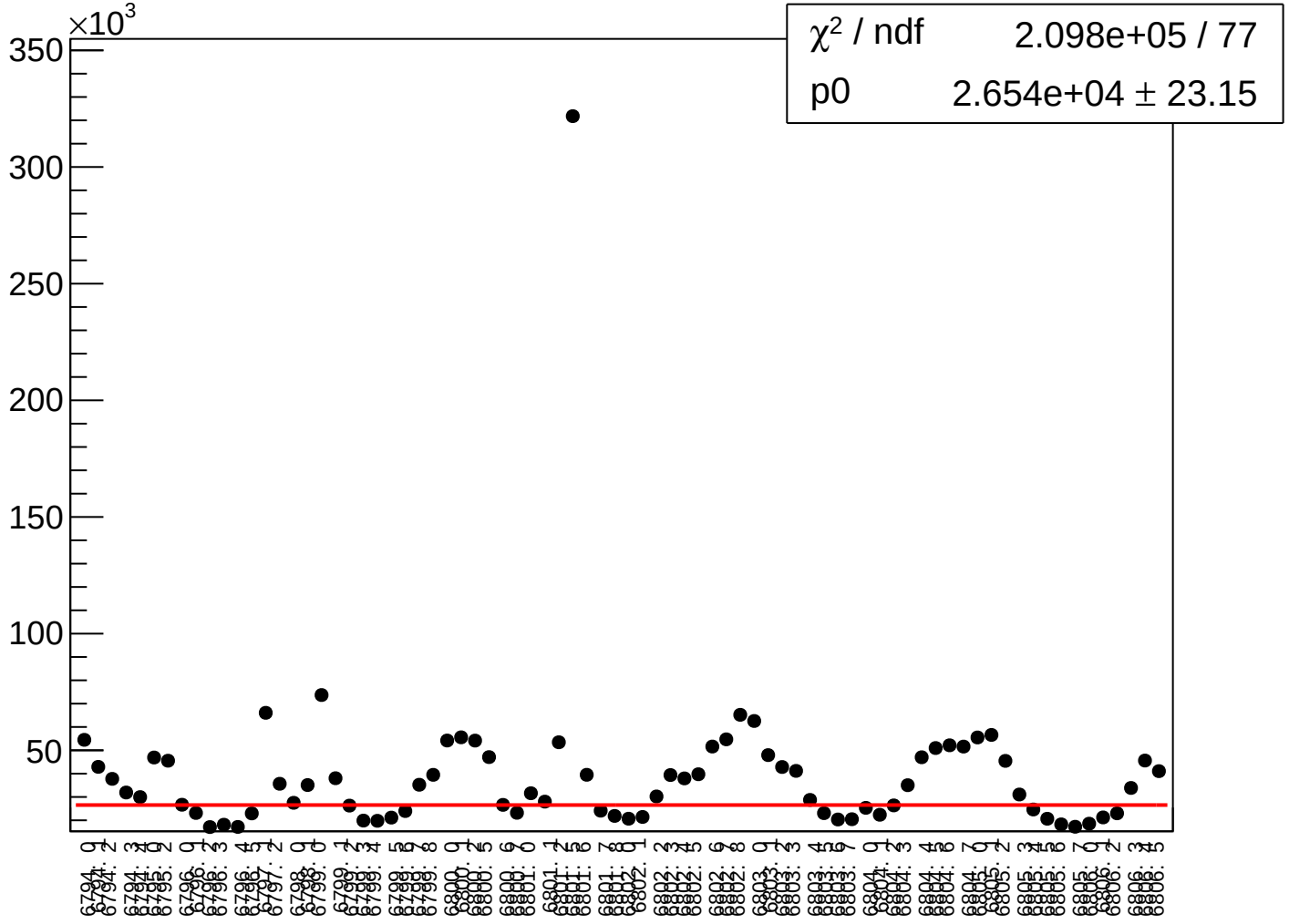

asym_bcm_target_mean vs run
χ² / ndf 15.21 / 85
p0 −272.1± 285
pull
Entries 86
Mean −99.52
Std Dev 0

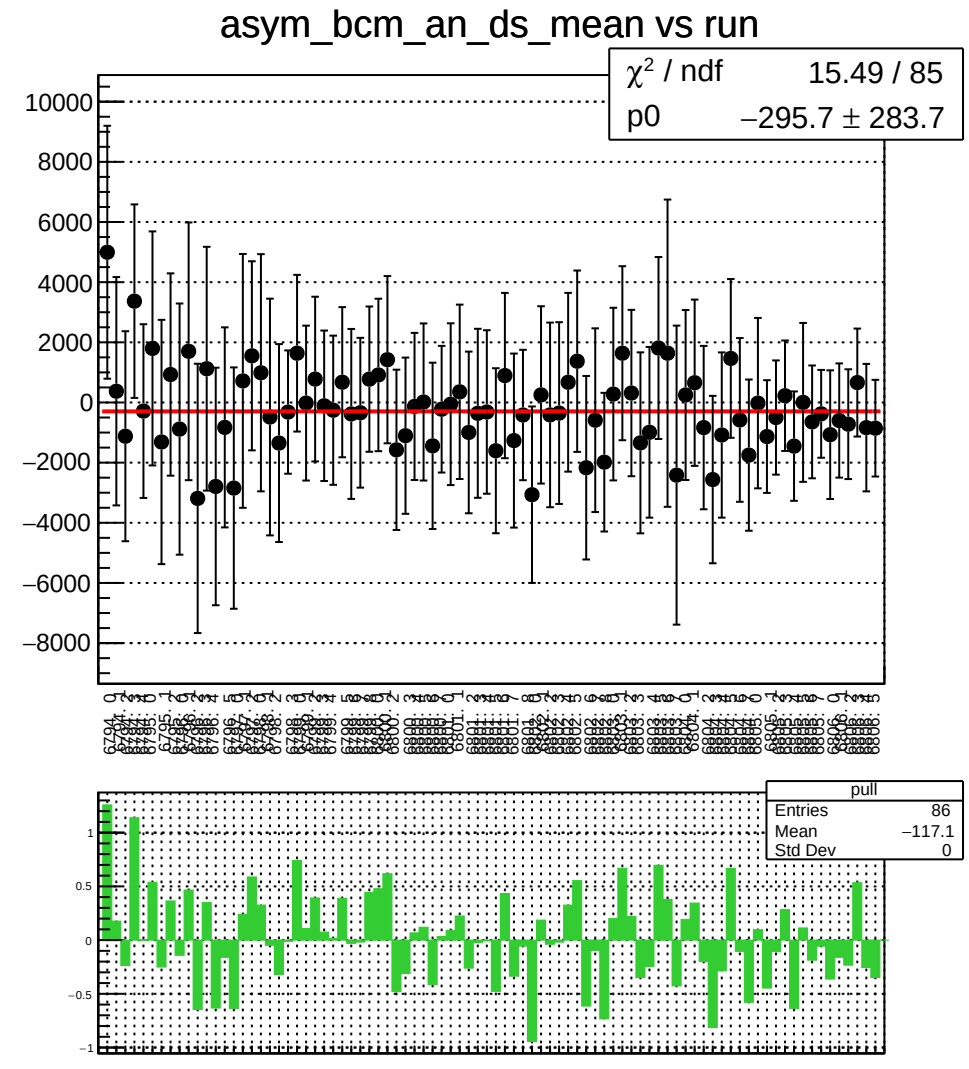

pull1D
Entries 86
Mean 0.01538
Std Dev 0.4203

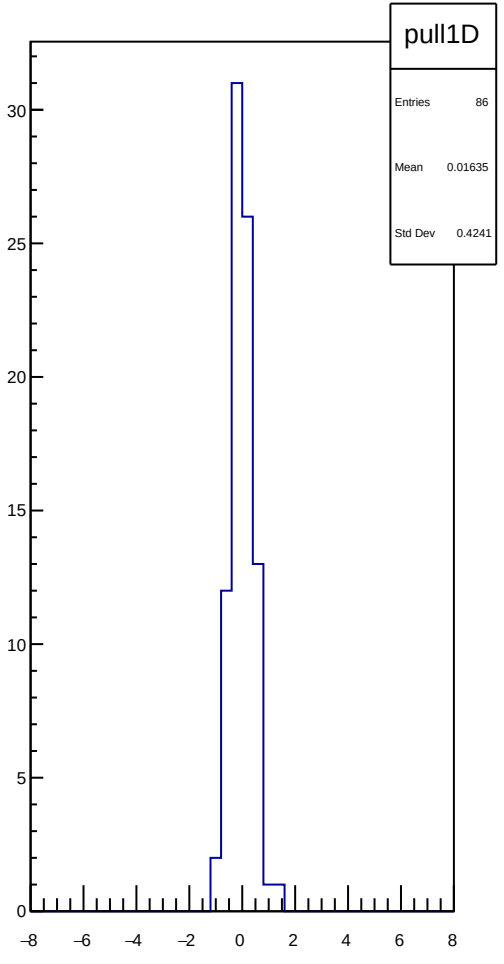

asym_bcm_target_rms vs run
χ² / ndf 9.339e+04 / 85
p0 254.1 ± 0.2016
550
500
450
400
350
300
250
200
150

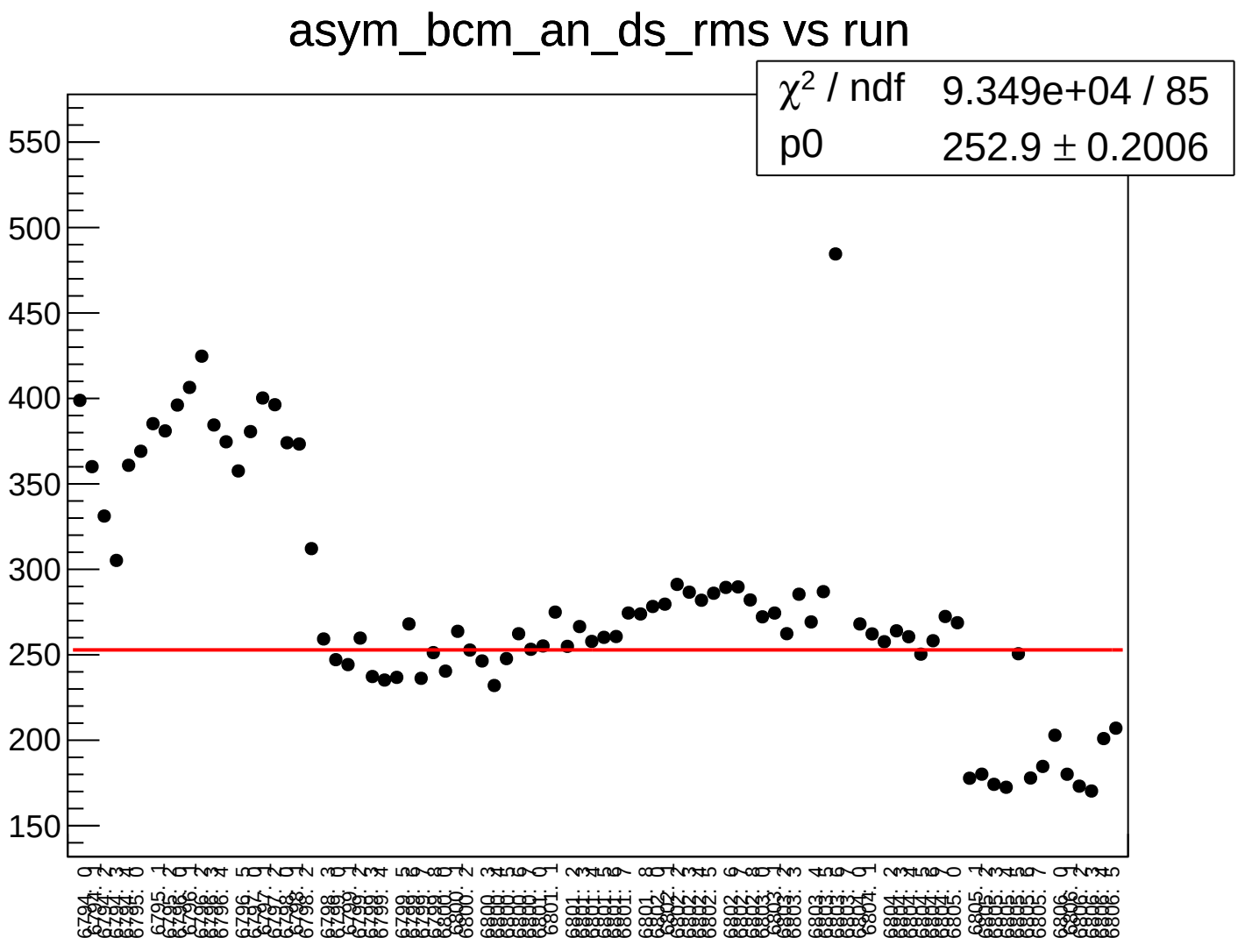

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 80.71 / 84
p0 −64.87 ± 32.74
400
300
200
100
0
−100
−200
pull
Entries 85
Mean 137.9
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 85
Mean −0.03223
Std Dev 0.9739
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

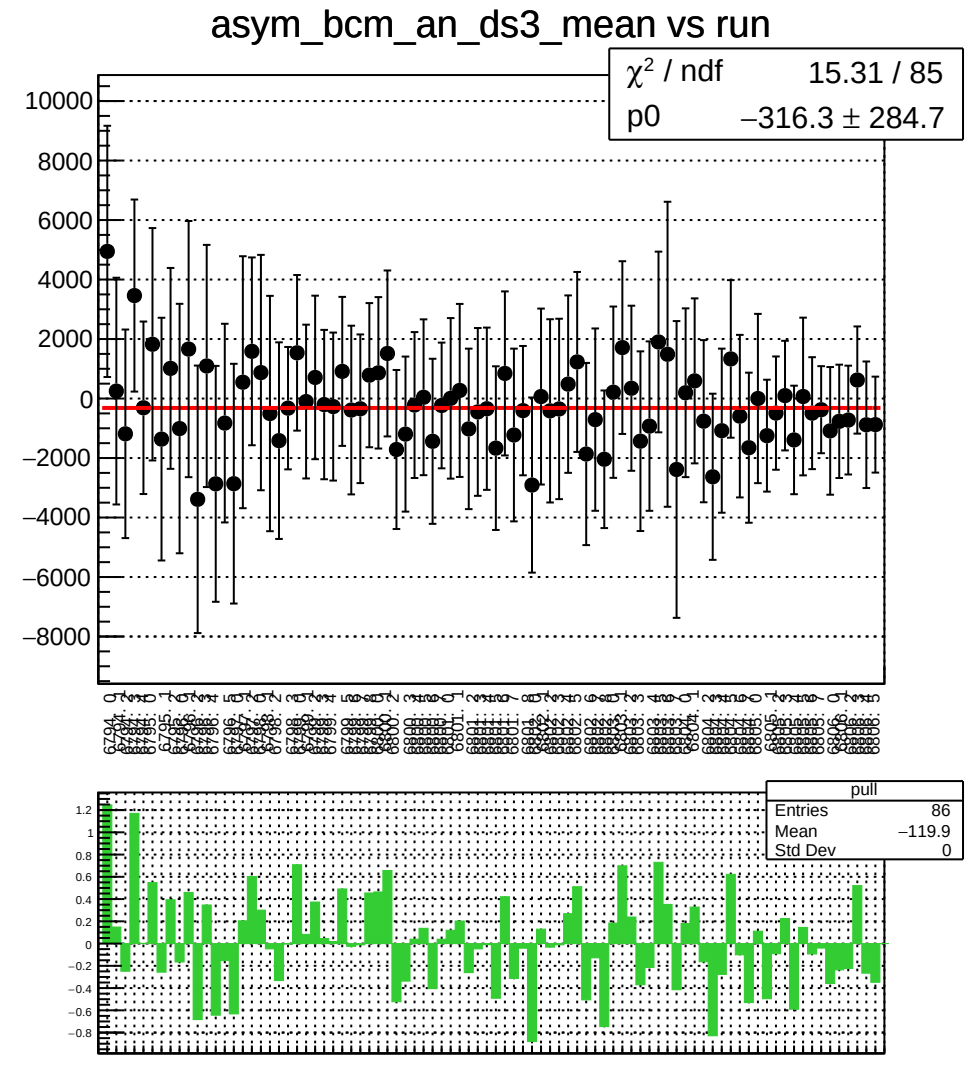
asym_bcm_an_diff_rms vs run

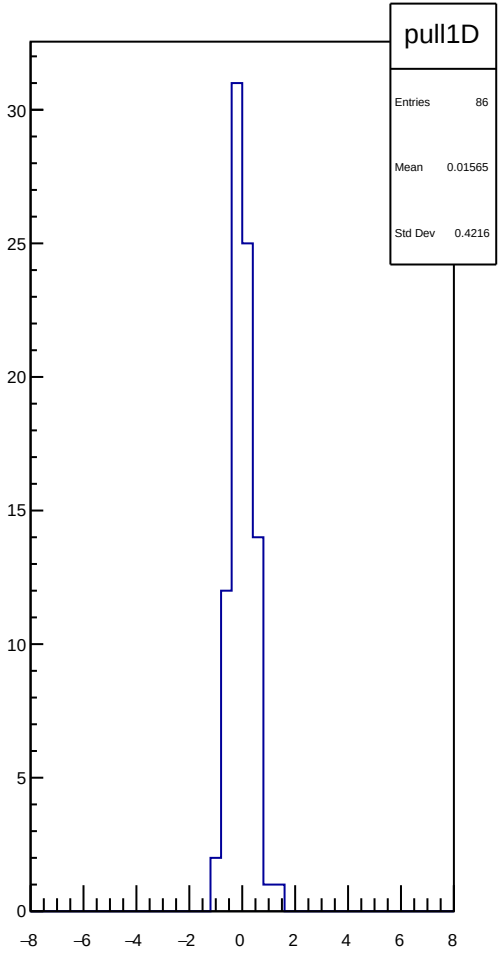


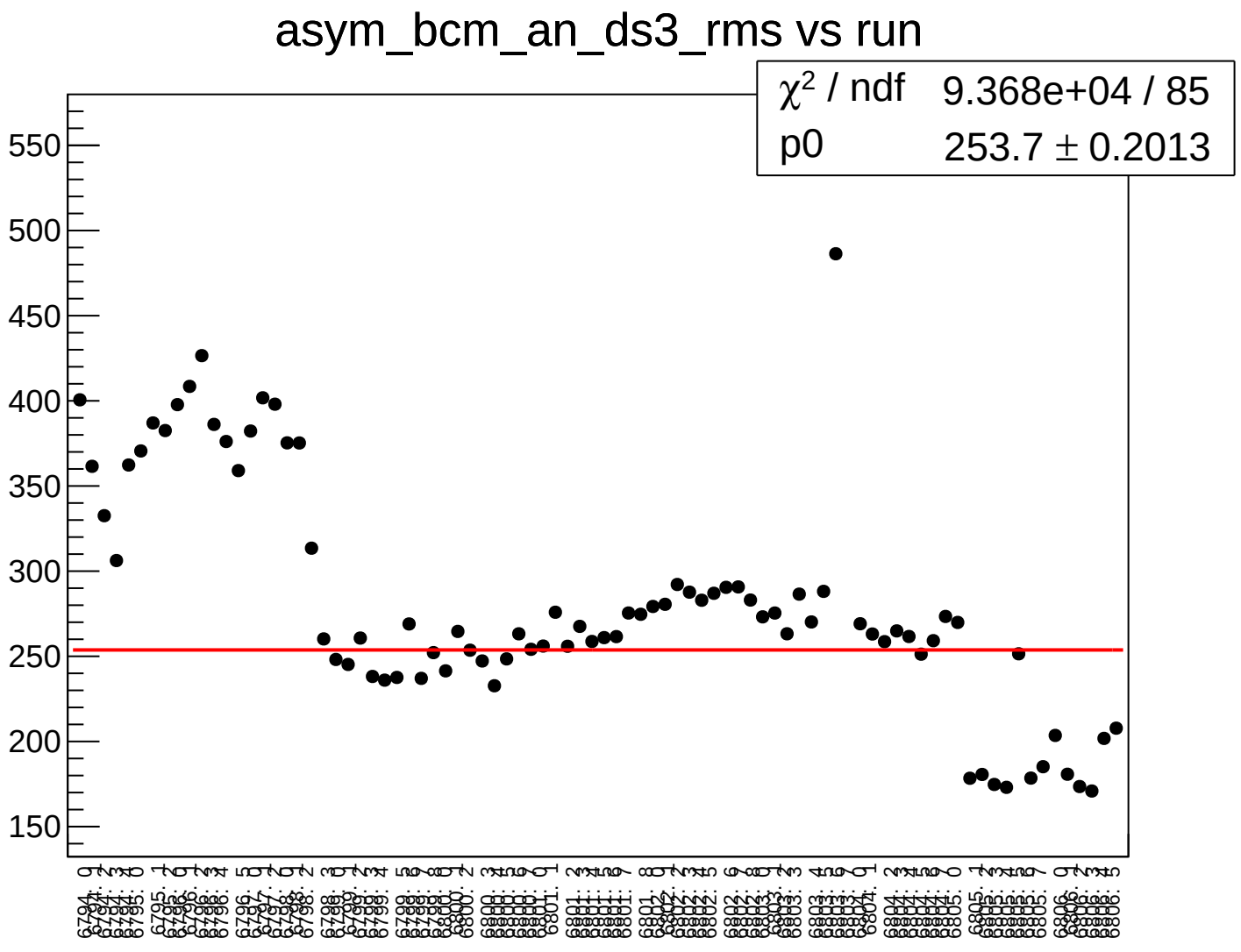

asym_bcm_an_ds_mean vs run
χ² / ndf 15.49 / 85
p0 −295.7 ± 283.7
pull
Entries 86
Mean −117.1
Std Dev 0

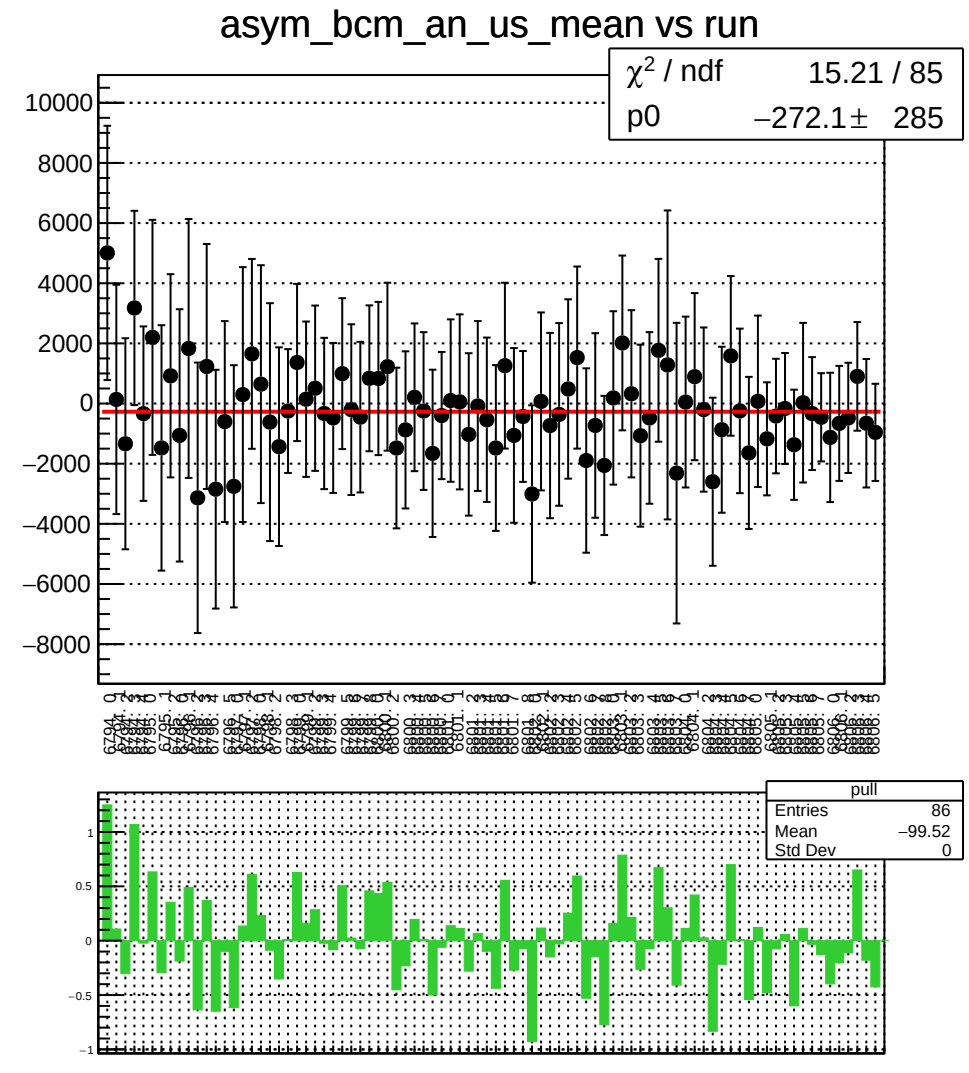

pull1D
Entries 86
Mean 0.01635
Std Dev 0.4241

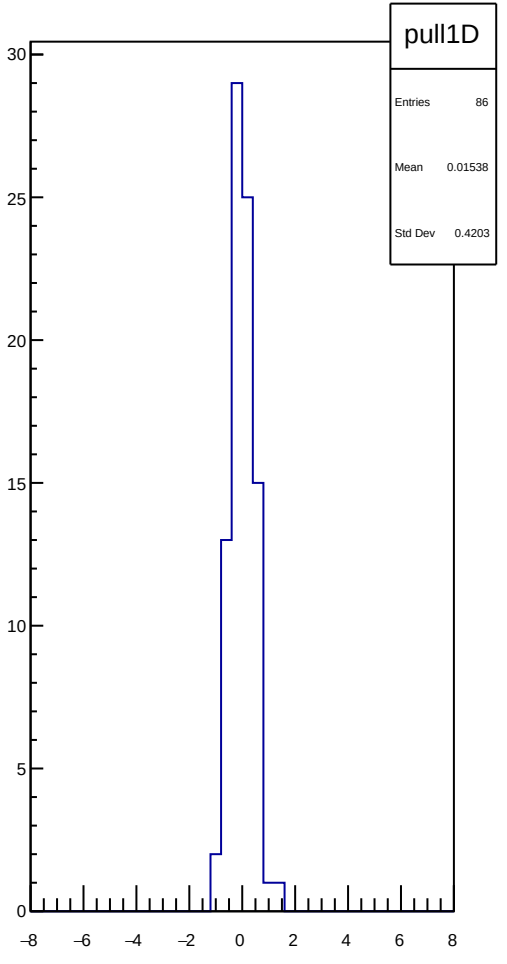

asym_bcm_an_ds_rms vs run
χ² / ndf 9.349e+04 / 85
p0 252.9 ± 0.2006
550
500
450
400
350
300
250
200
150

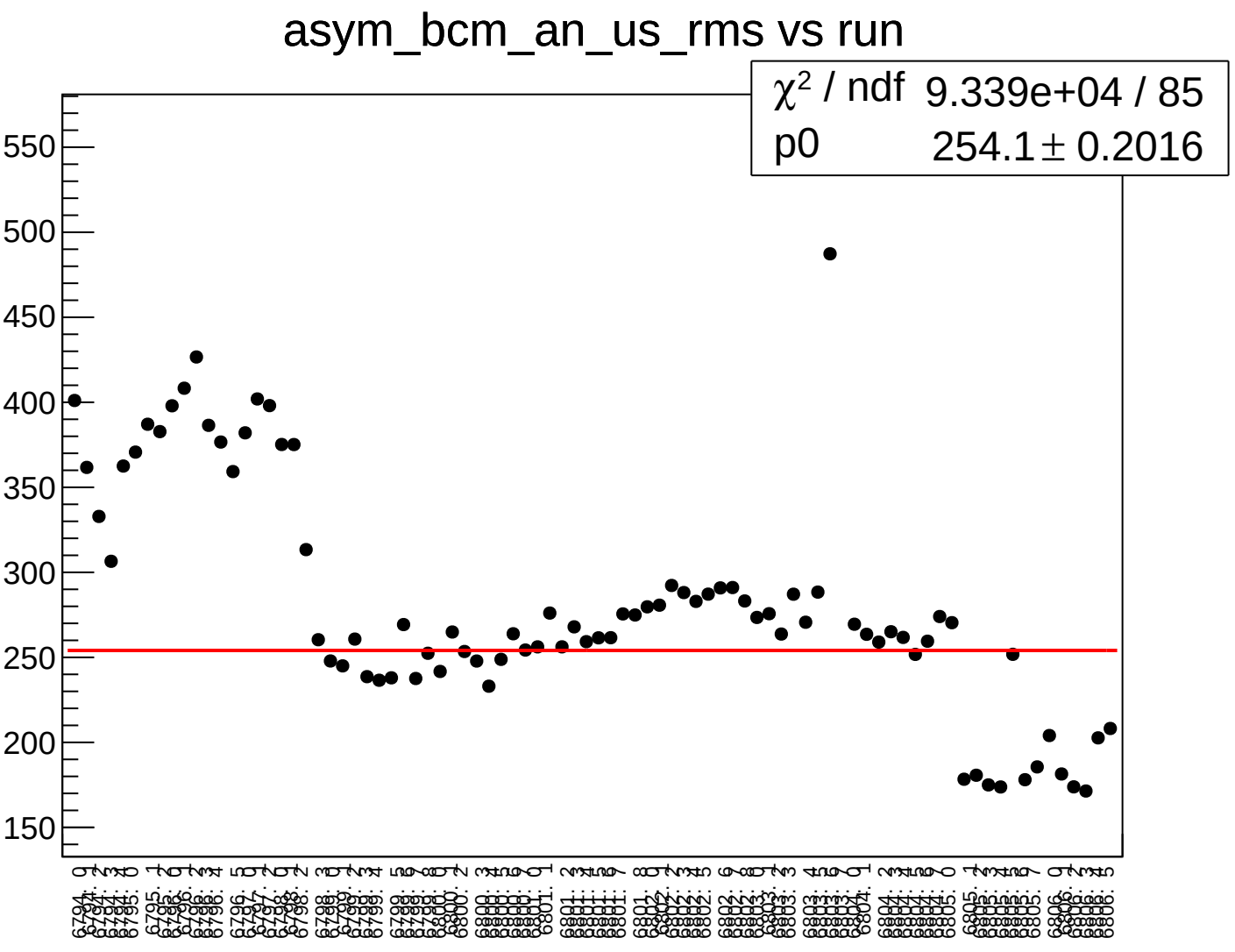

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.31 / 85
p0 −316.3 ± 284.7
pull
Entries 86
Mean −119.9
Std Dev 0

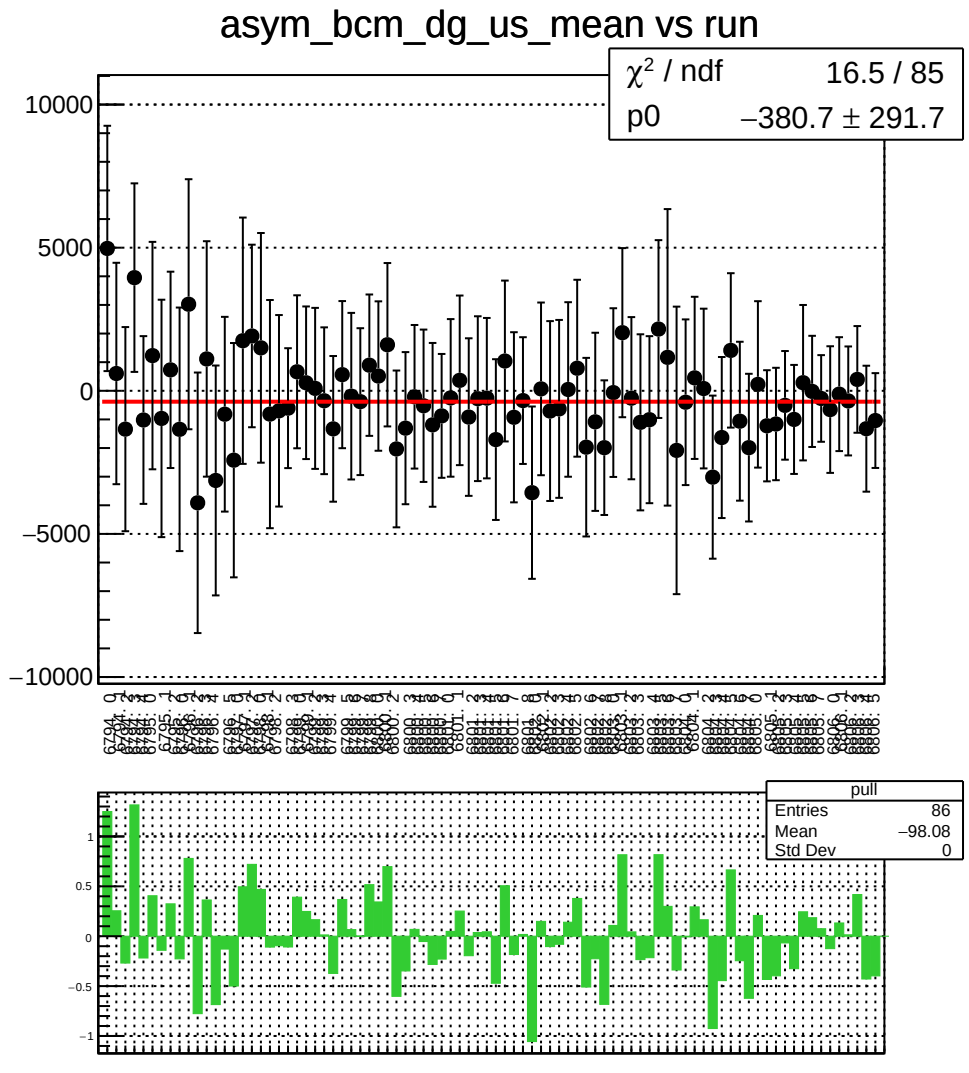

pull1D
Entries 86
Mean 0.01565
Std Dev 0.4216

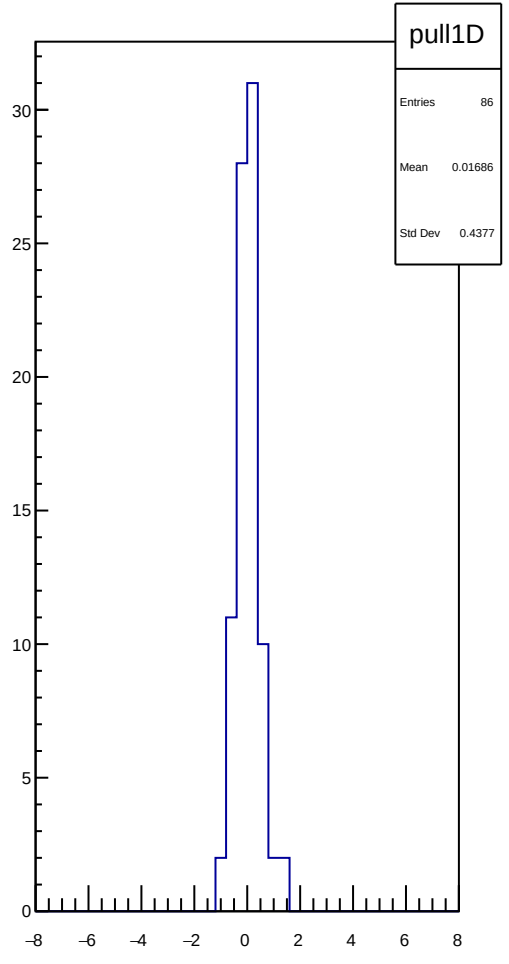

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 9.368e+04 / 85
p0 253.7 ± 0.2013
550
500
450
400
350
300
250
200
150

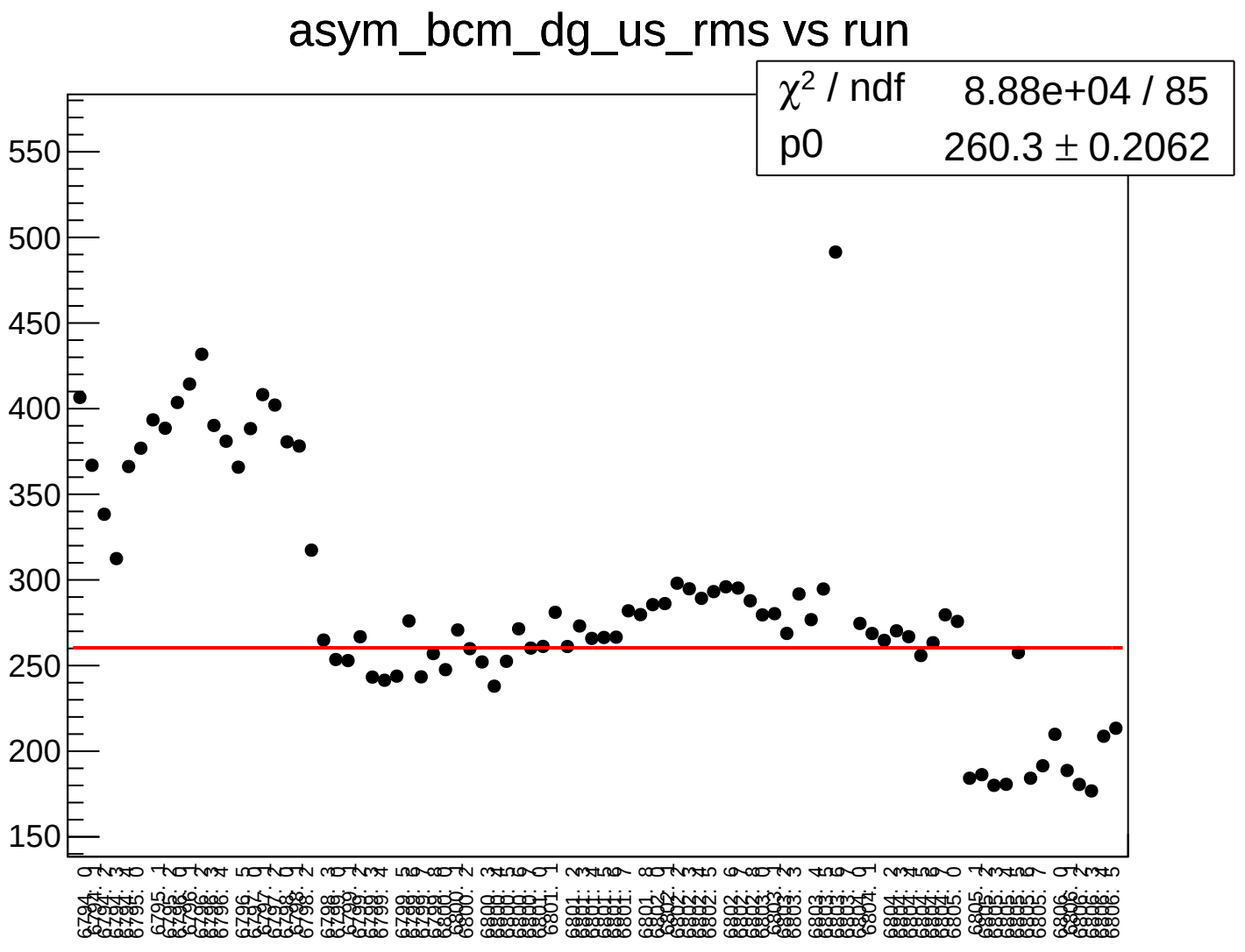

asym_bcm_an_us_mean vs run
χ² / ndf 15.21 / 85
p0 −272.1± 285
pull
Entries 86
Mean −99.52
Std Dev 0

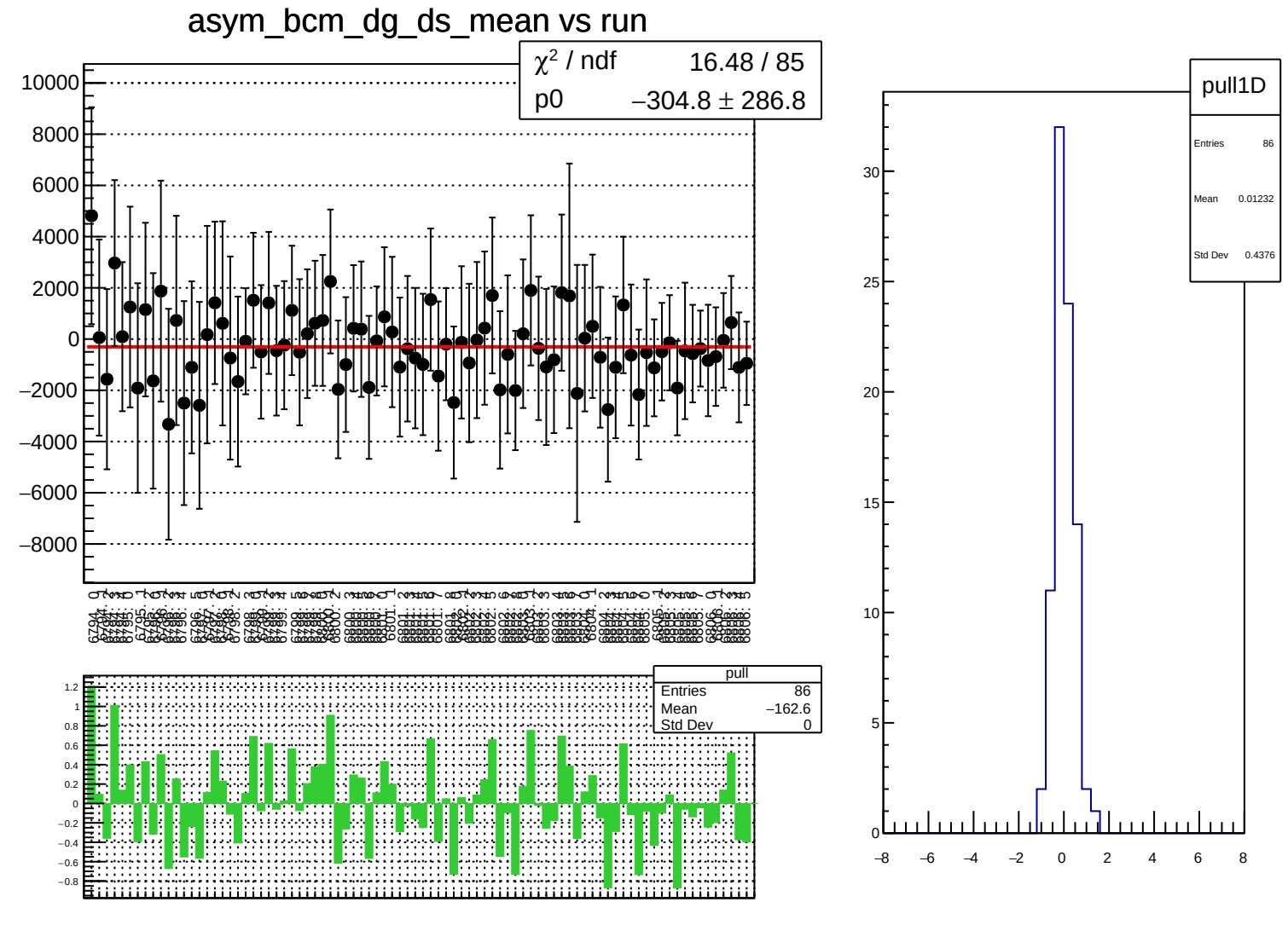

pull1D
Entries 86
Mean 0.01538
Std Dev 0.4203

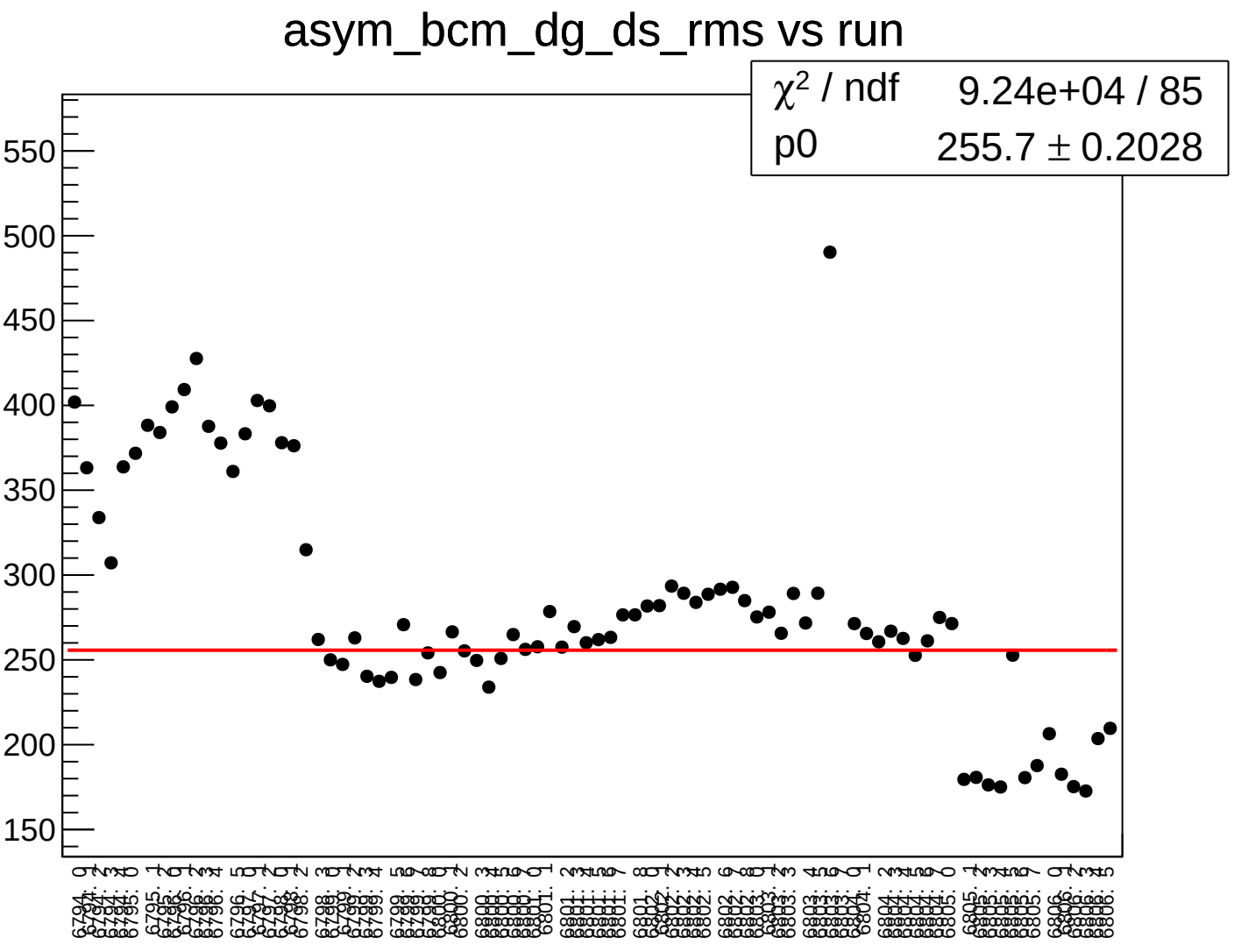

asym_bcm_an_us_rms vs run
χ² / ndf 9.339e+04 / 85
p0 254.1 ± 0.2016
550
500
450
400
350
300
250
200
150

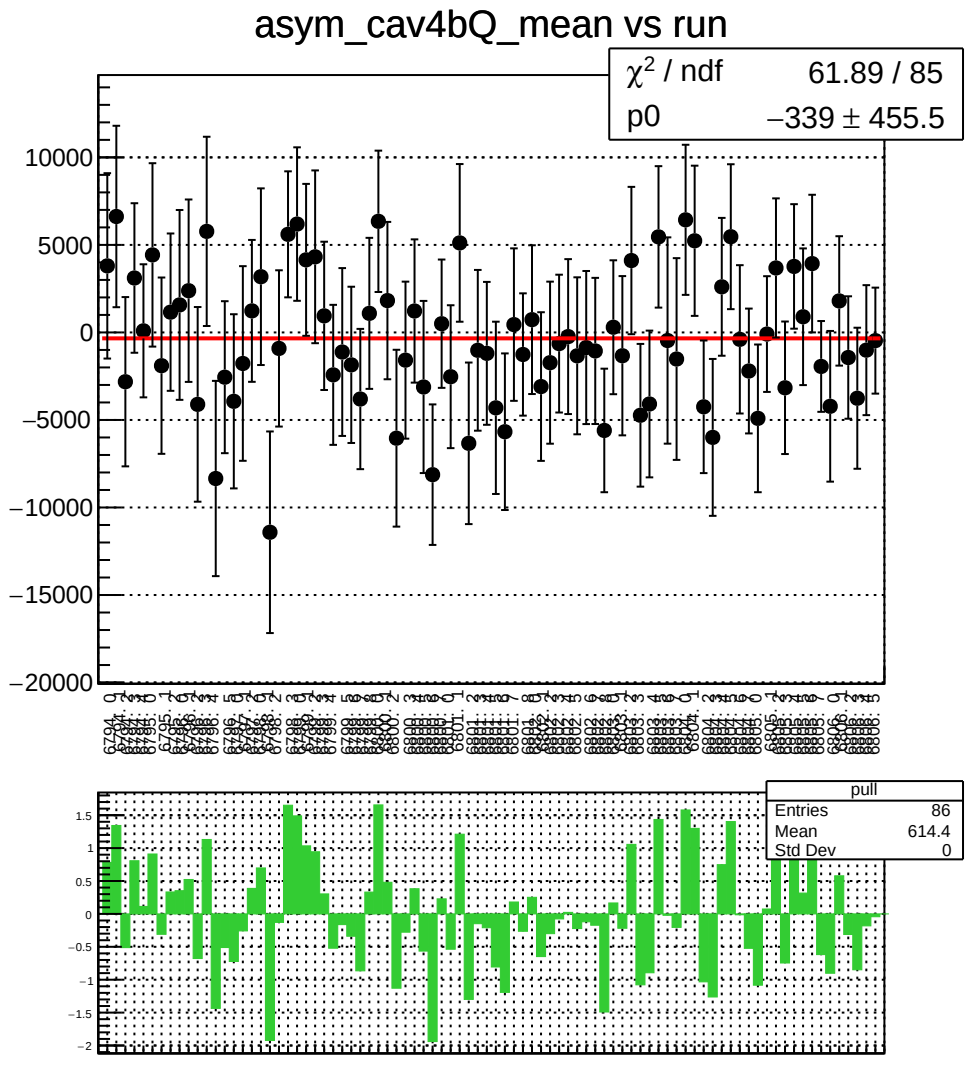

asym_bcm_dg_us_mean vs run
χ² / ndf 16.5 / 85
p0 −380.7 ± 291.7
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −98.08
Std Dev 0
1
0.5
0
−0.5
−1

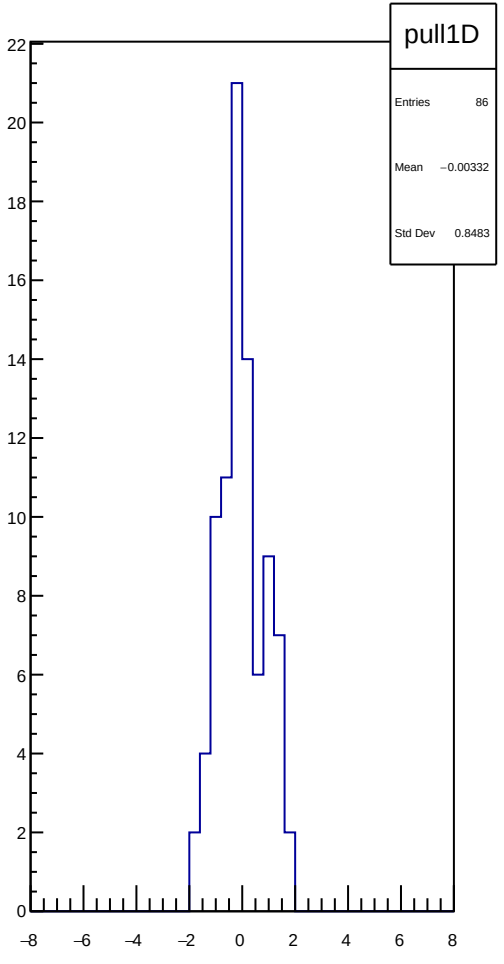

pull1D
Entries 86
Mean 0.01686
Std Dev 0.4377
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

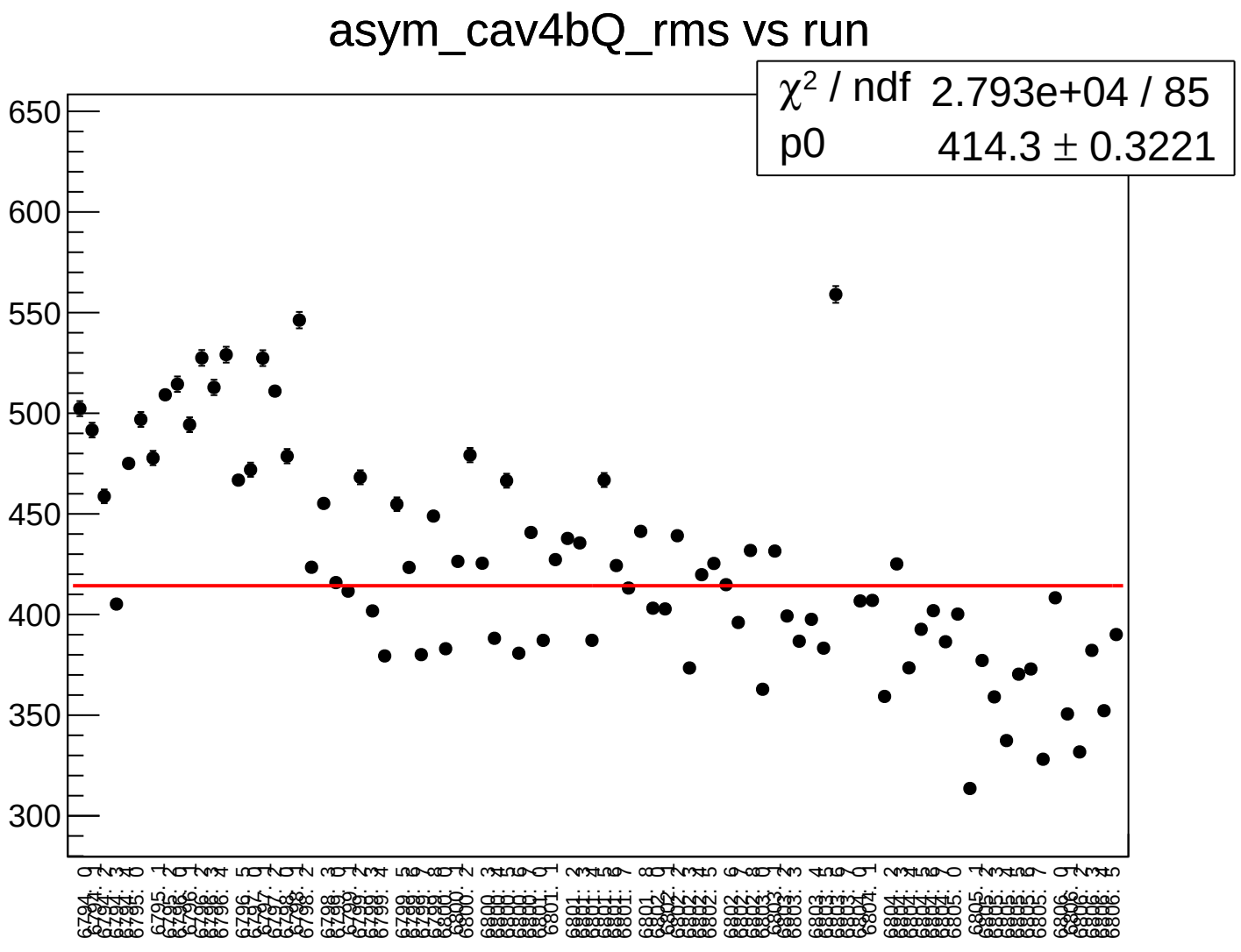

asym_bcm_dg_us_rms vs run
χ² / ndf 8.88e+04 / 85
p0 260.3 ± 0.2062
550
500
450
400
350
300
250
200
150

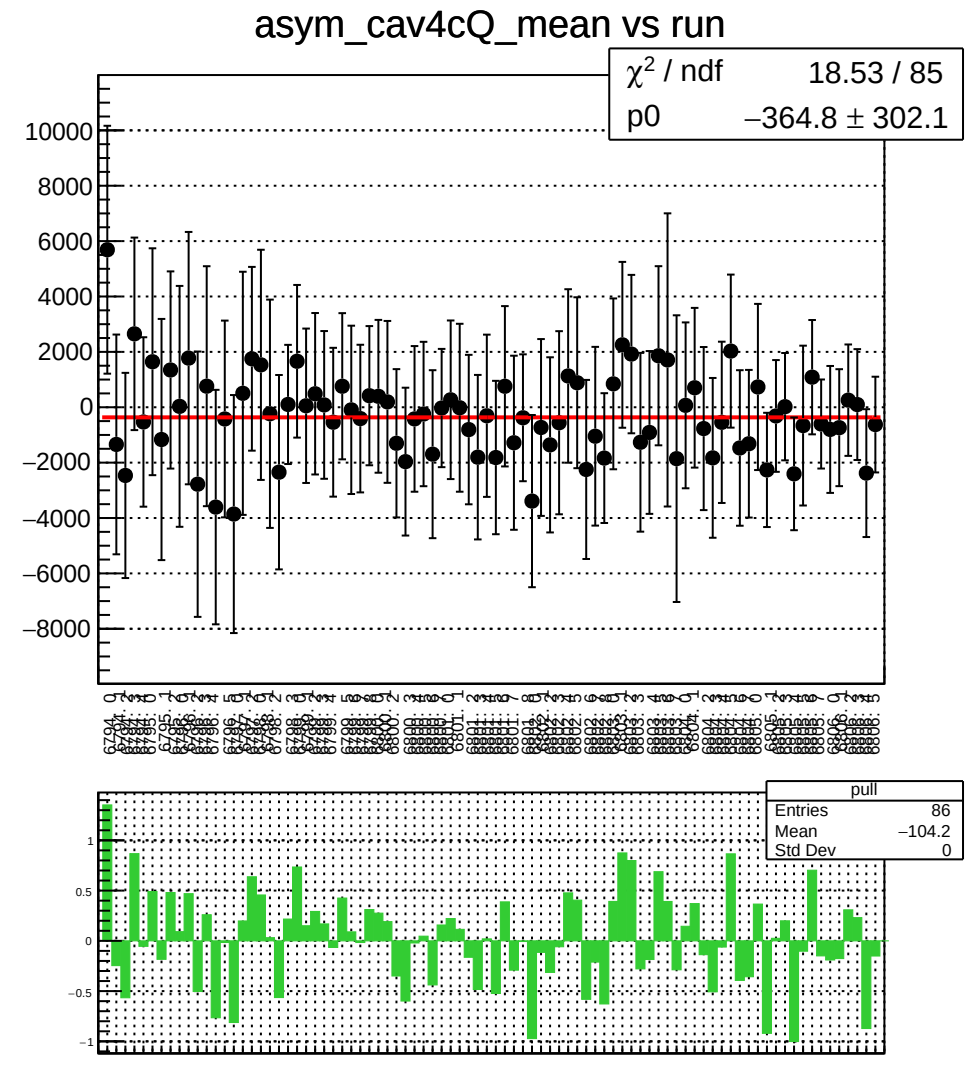

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.48 / 85
p0 −304.8 ± 286.8
pull
Entries 86
Mean −162.6
Std Dev 0
pull1D
Entries 86
Mean 0.01232
Std Dev 0.4376

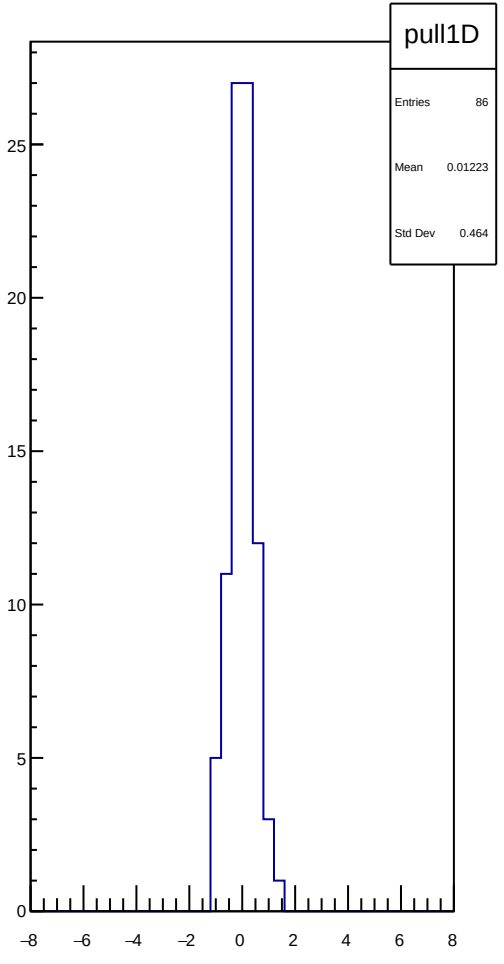

asym_bcm_dg_ds_rms vs run
χ² / ndf 9.24e+04 / 85
p0 255.7 ± 0.2028
550
500
450
400
350
300
250
200
150

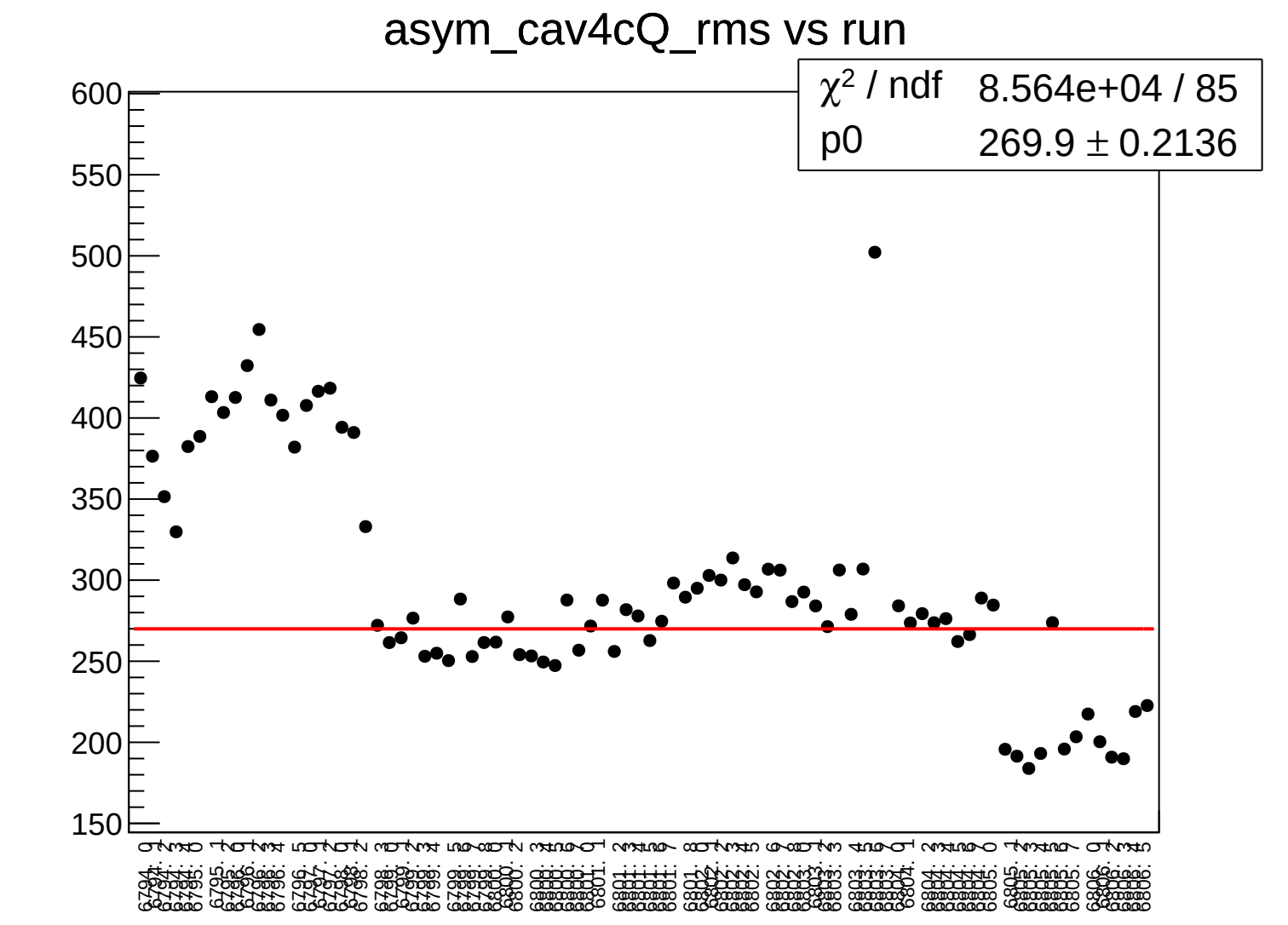

asym_cav4bQ_mean vs run
χ² / ndf 61.89 / 85
p0 −339 ± 455.5
pull
Entries 86
Mean 614.4
Std Dev 0

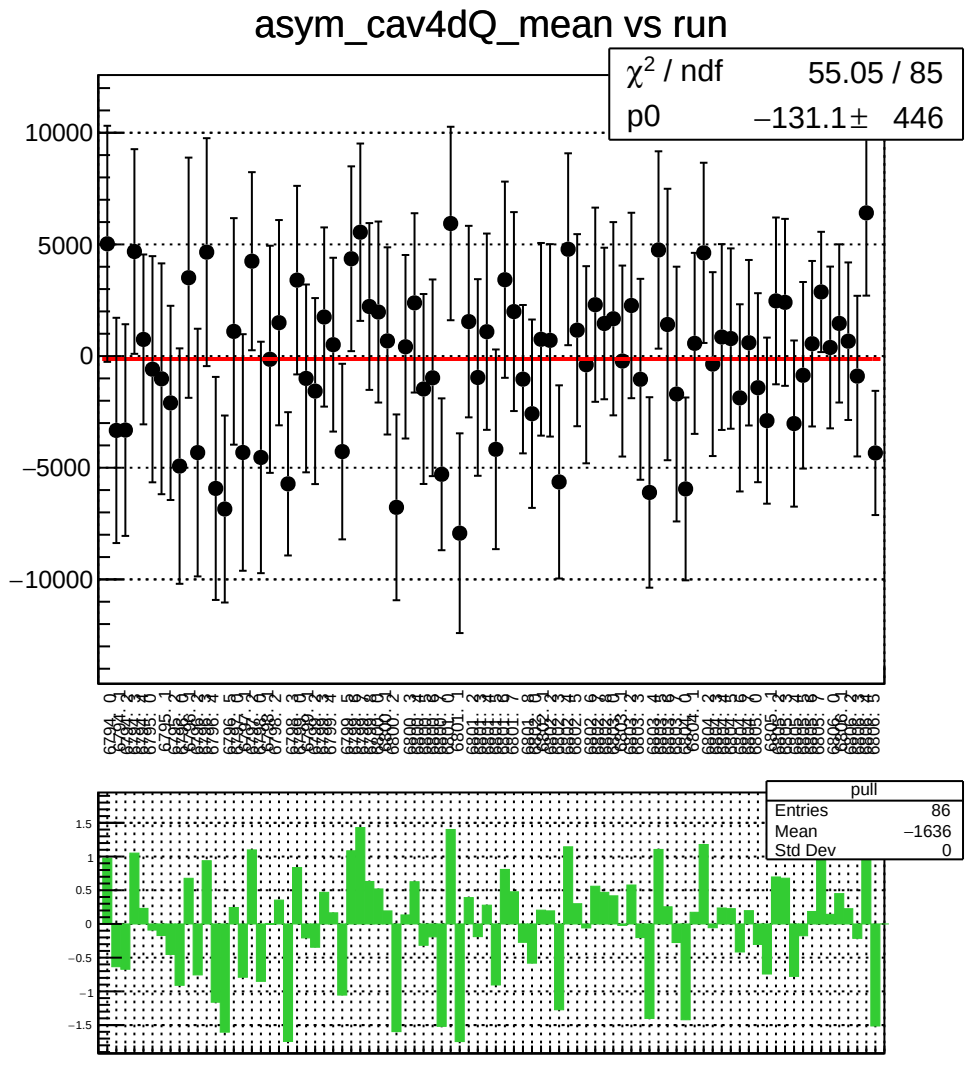

pull1D
Entries 86
Mean −0.00332
Std Dev 0.8483

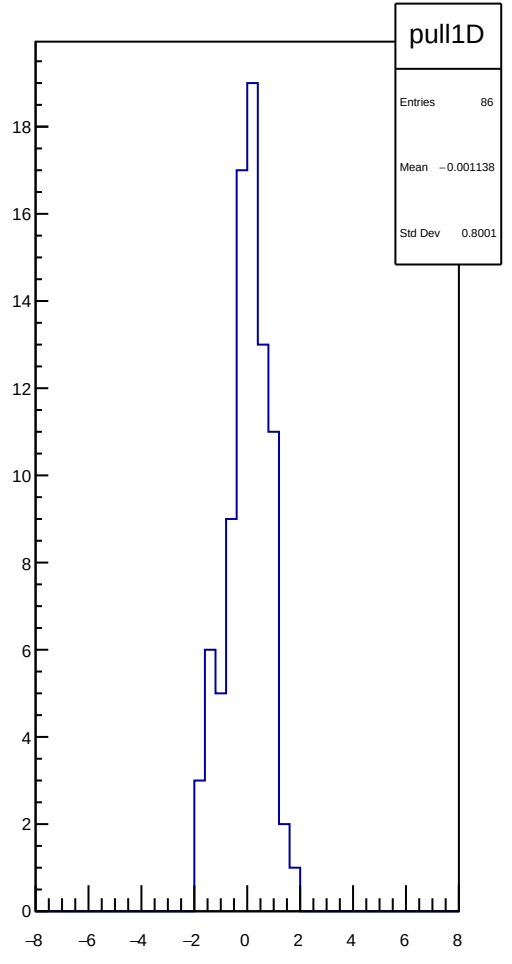

asym_cav4bQ_rms vs run
χ² / ndf 2.793e+04 / 85
p0 414.3 ± 0.3221
650
600
550
500
450
400
350
300

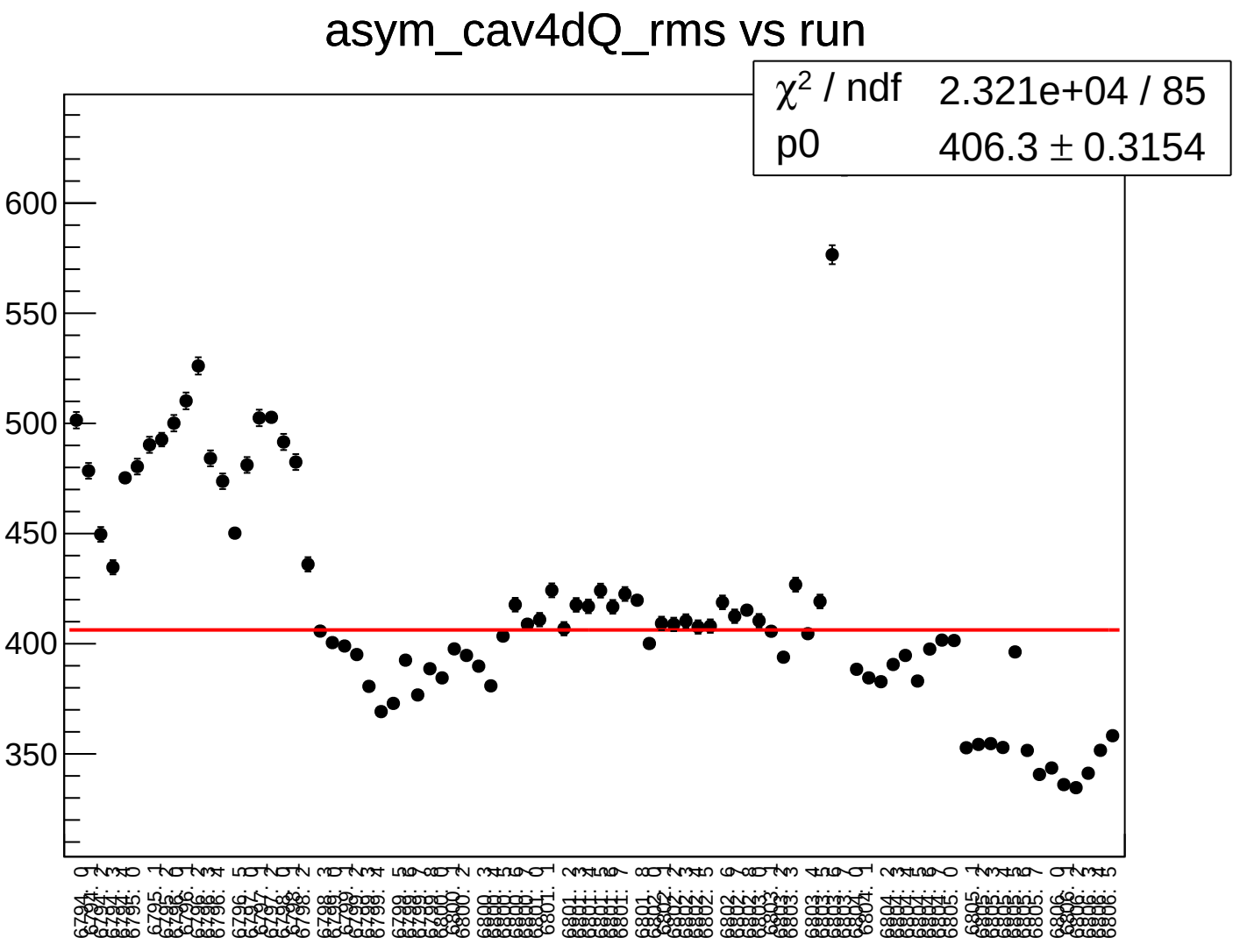

asym_cav4cQ_mean vs run
χ² / ndf 18.53 / 85
p0 −364.8 ± 302.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −104.2
Std Dev 0
1
0.5
0
−0.5
−1

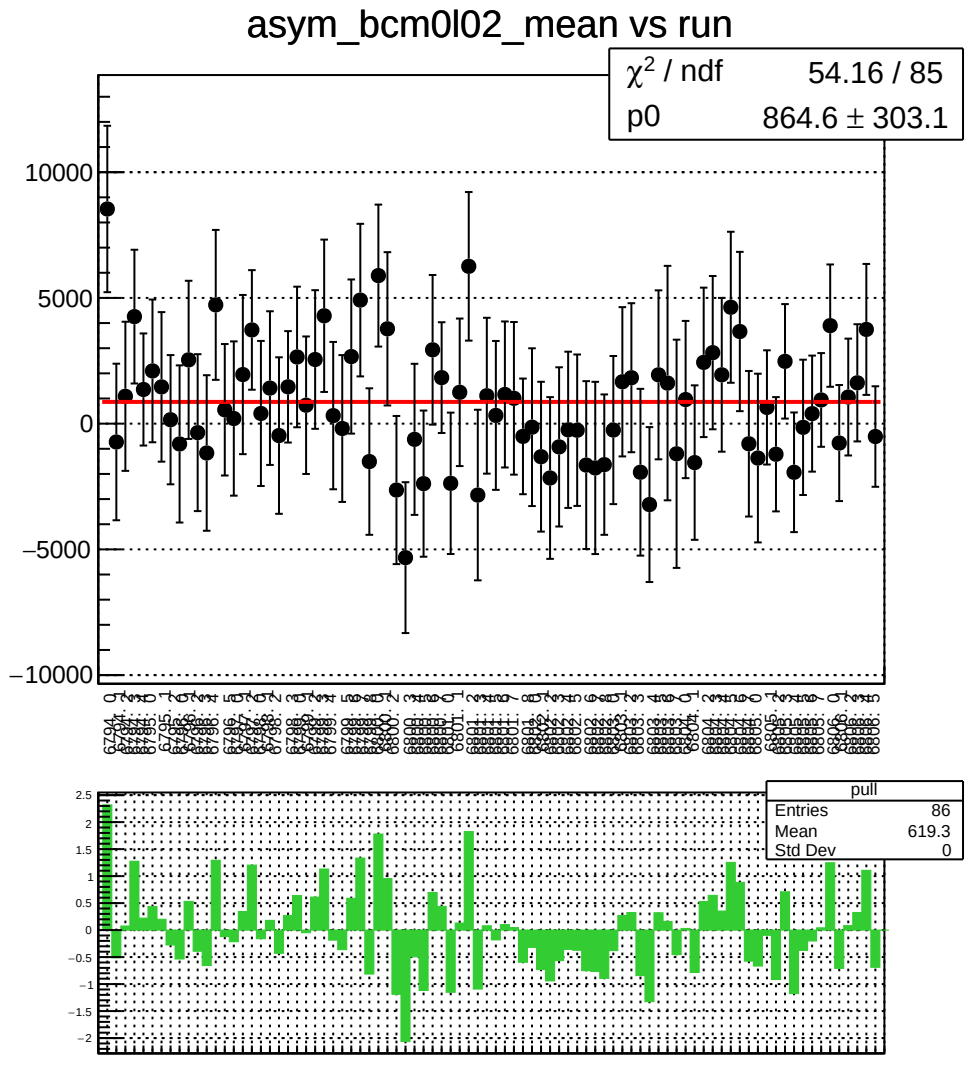

pull1D
Entries 86
Mean 0.01223
Std Dev 0.464
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

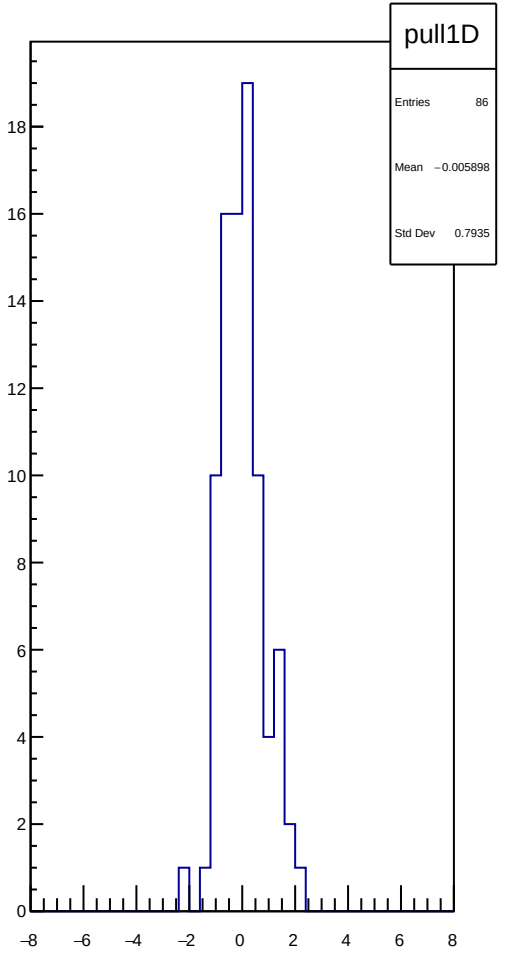

asym_cav4cQ_rms vs run
χ² / ndf 8.564e+04 / 85
p0 269.9 ± 0.2136
600
550
500
450
400
350
300
250
200
150

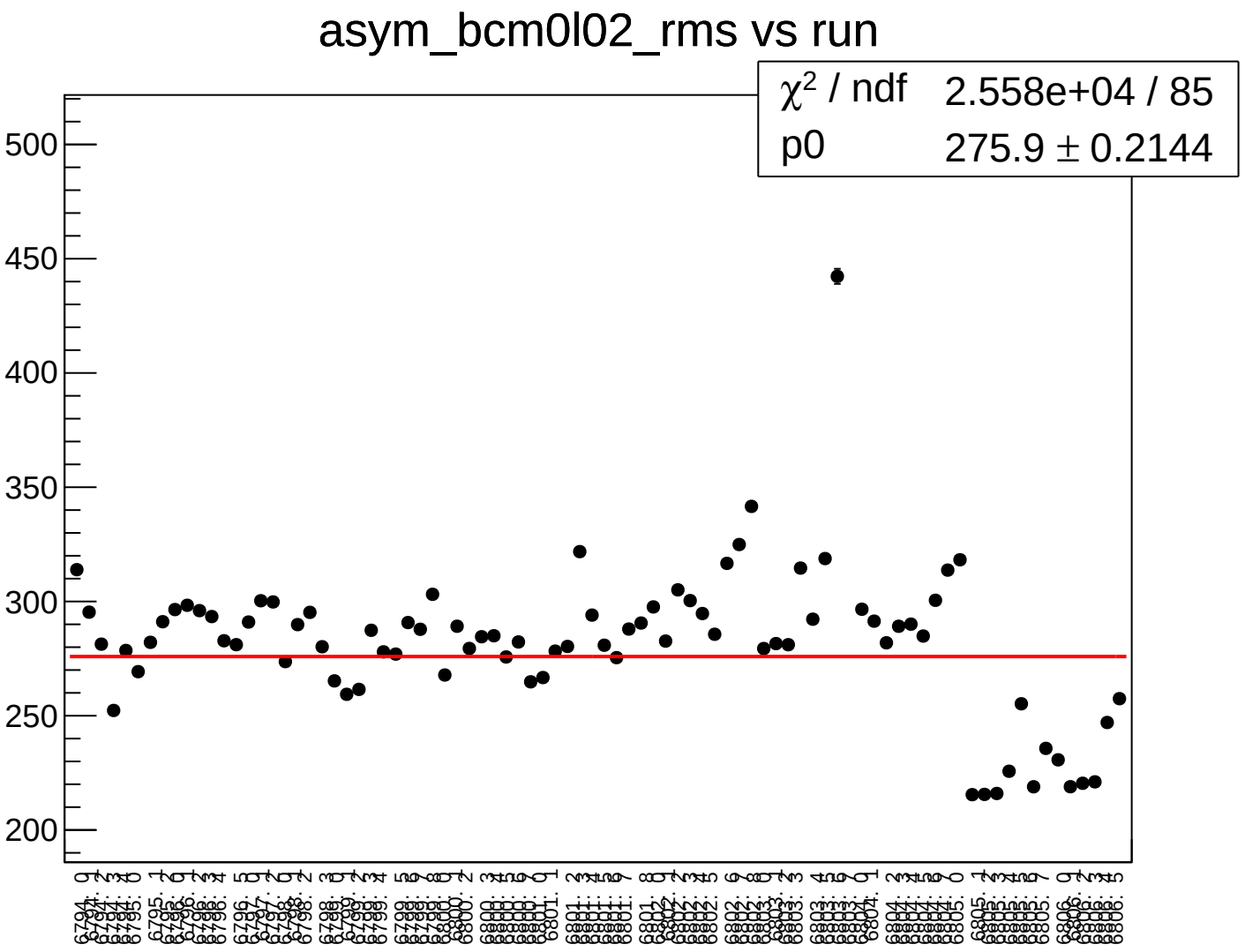

asym_cav4dQ_mean vs run
χ² / ndf 55.05 / 85
p0 −131.1± 446
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −1636
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

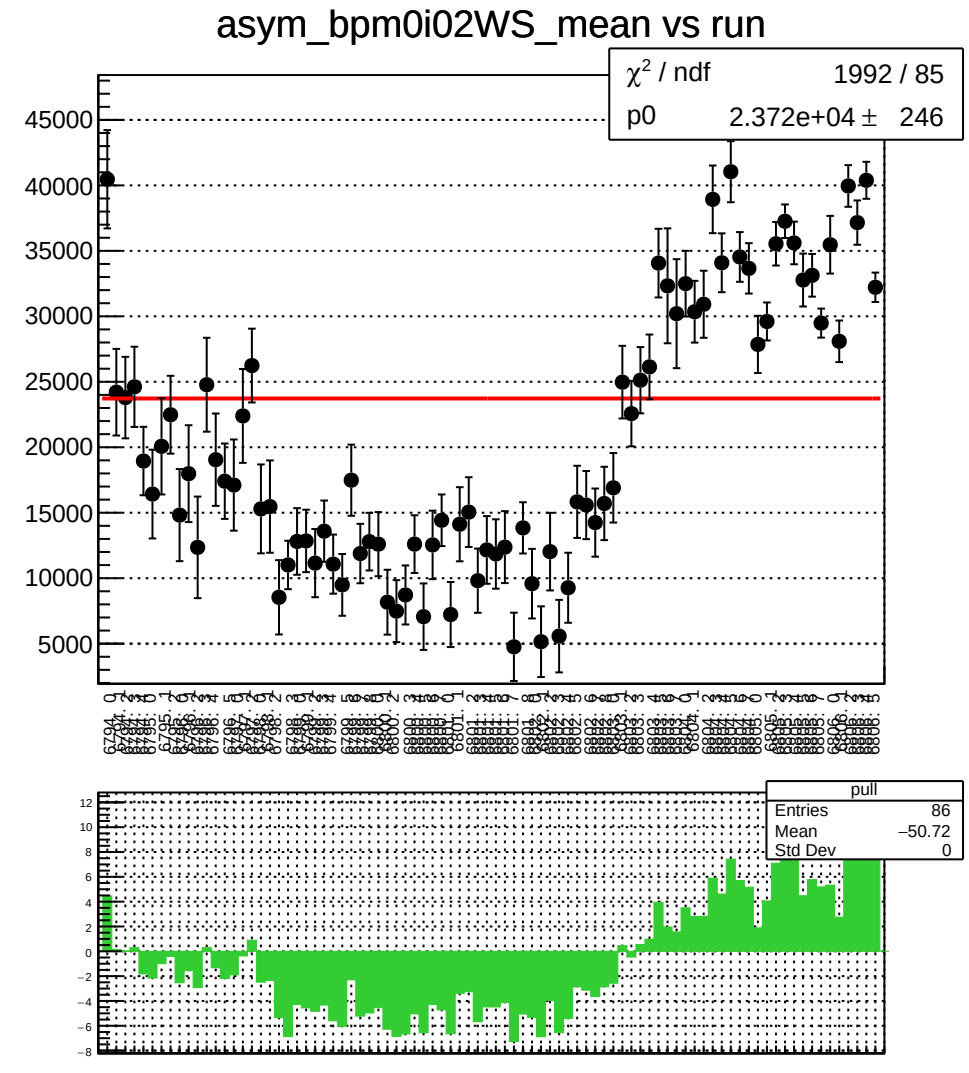

pull1D
Entries 86
Mean −0.001138
Std Dev 0.8001
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

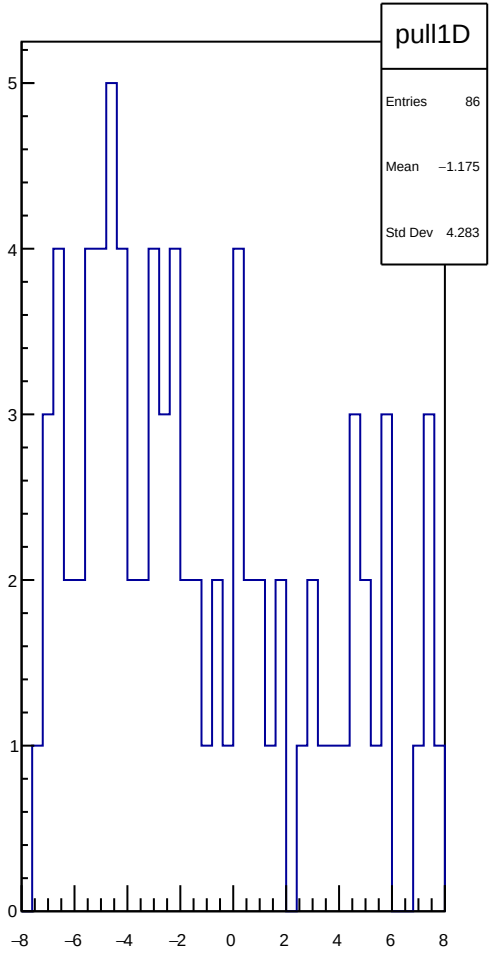

asym_cav4dQ_rms vs run
χ² / ndf 2.321e+04 / 85
p0 406.3 ± 0.3154
600
550
500
450
400
350

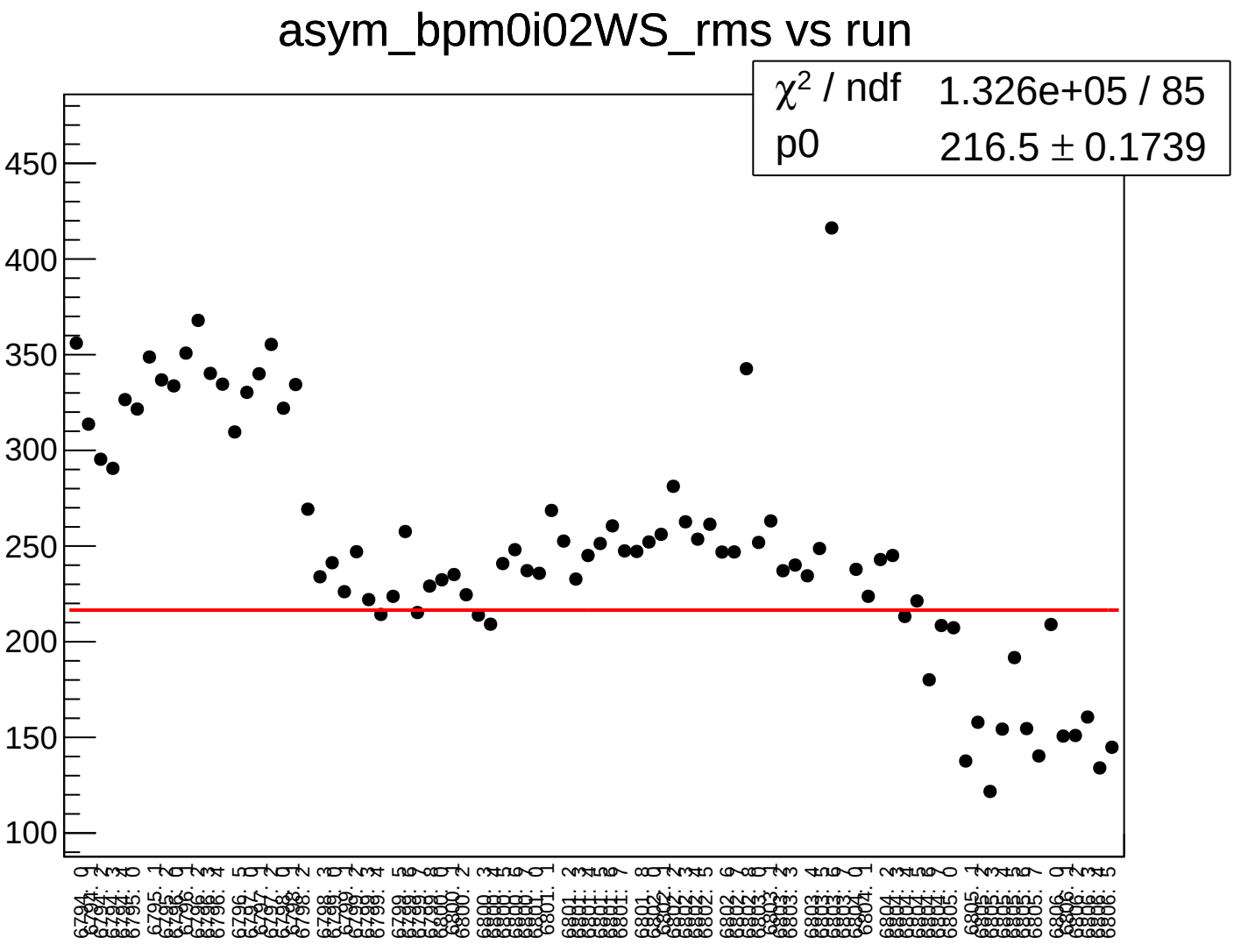

asym_bcm0l02_mean vs run
χ² / ndf 54.16 / 85
p0 864.6 ± 303.1
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 619.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

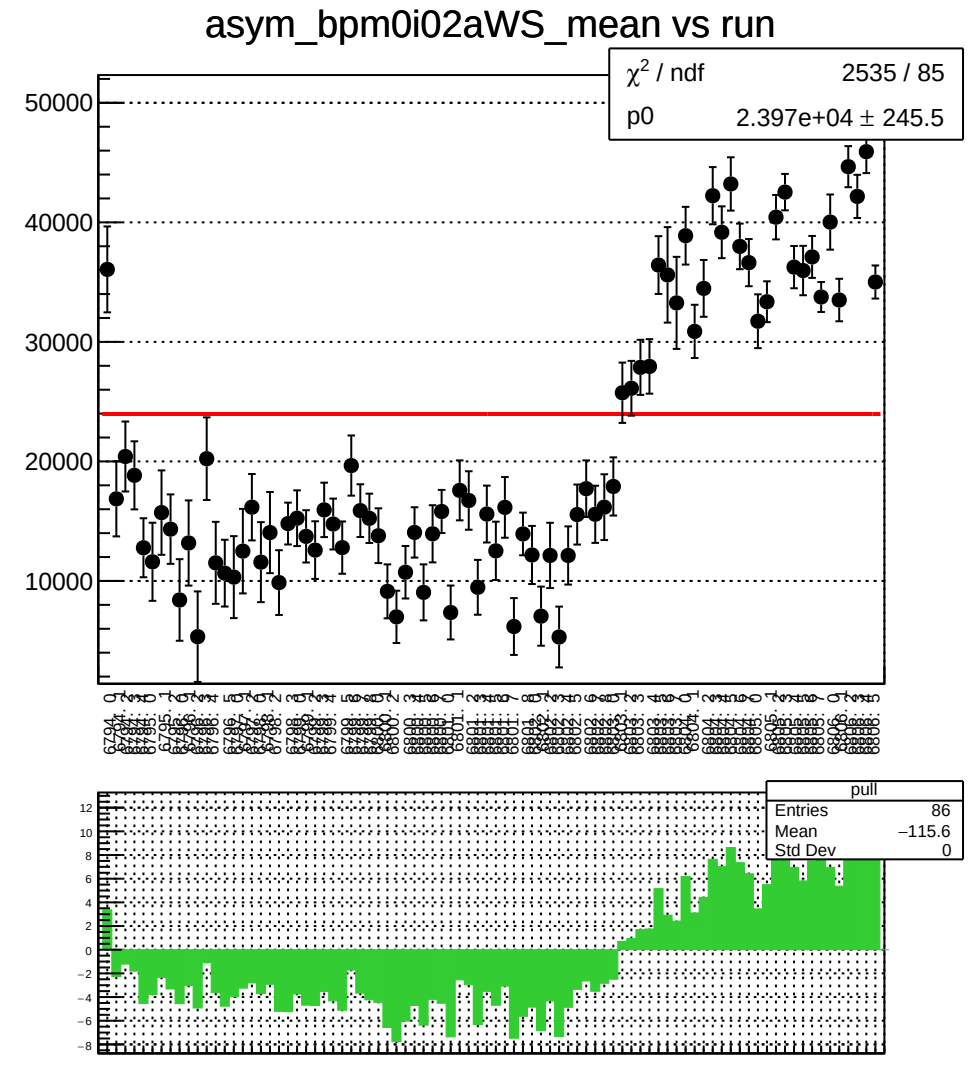

pull1D
Entries 86
Mean −0.005898
Std Dev 0.7935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

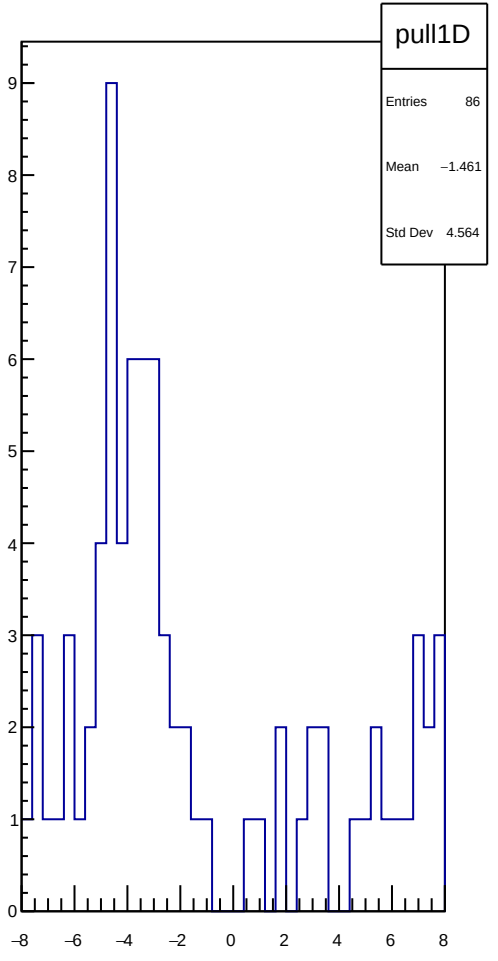

asym_bcm0l02_rms vs run
χ^2 / ndf 2.558e+04 / 85
p0 275.9 ± 0.2144
500
450
400
350
300
250
200

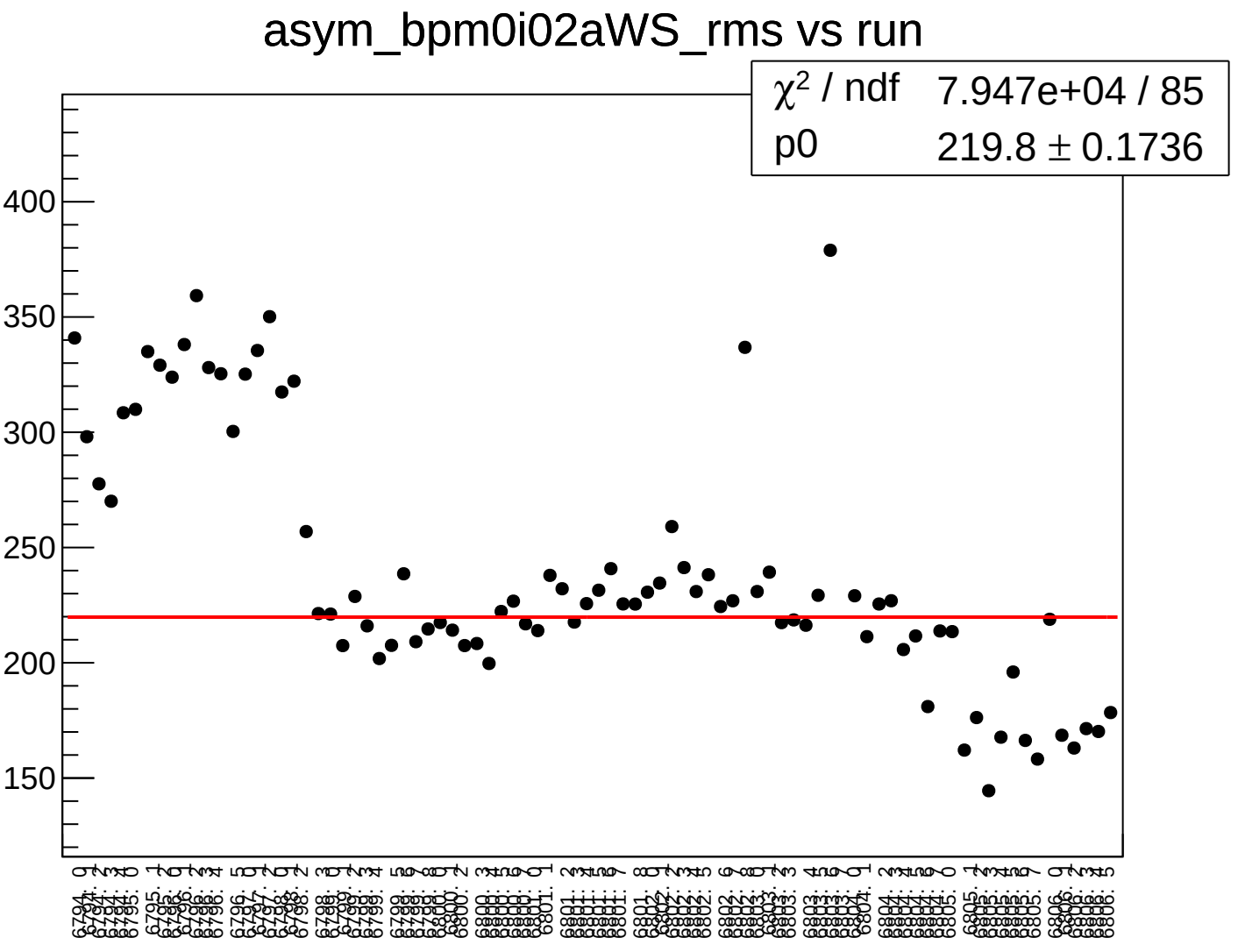

asym_bpm0i02WS_mean vs run
χ² / ndf 1992 / 85
p0 2.372e+04 ± 246
pull
Entries 86
Mean −50.72
Std Dev 0

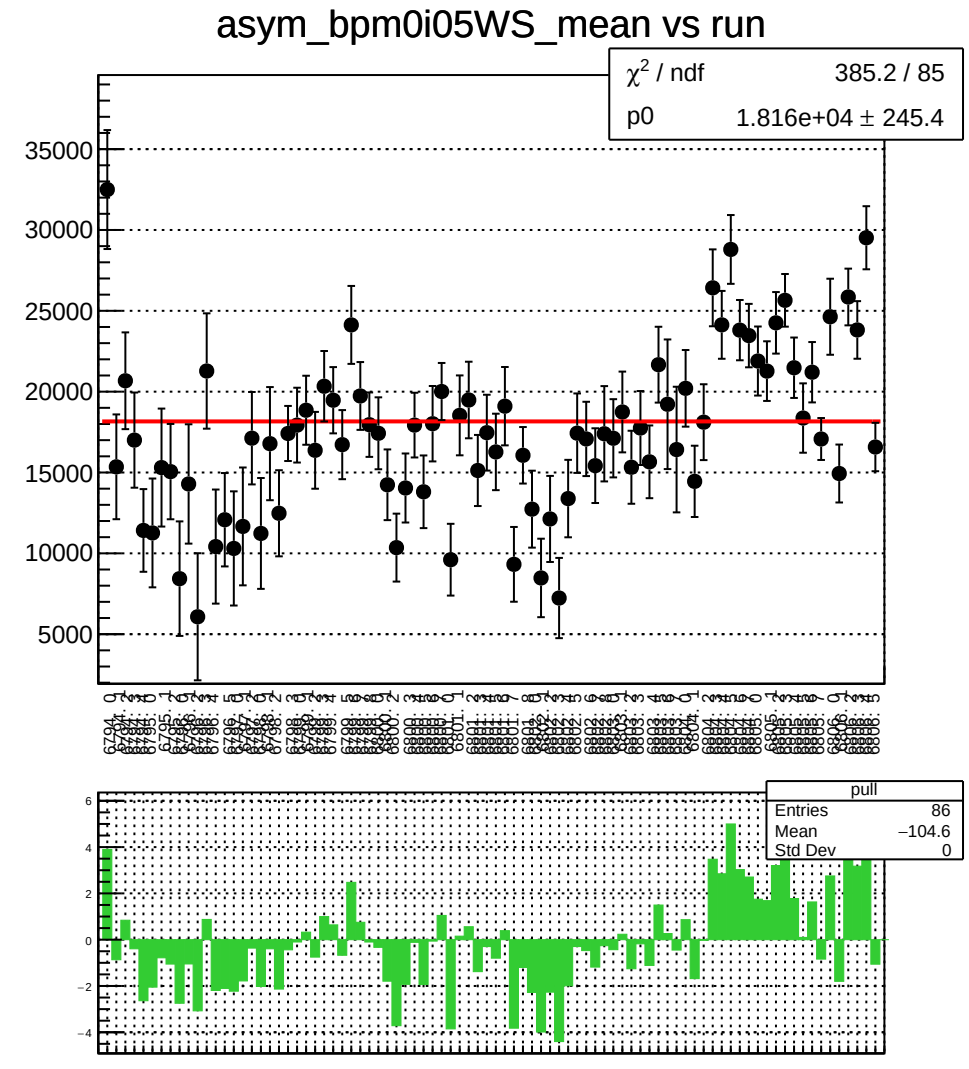

pull1D
Entries 86
Mean −1.175
Std Dev 4.283

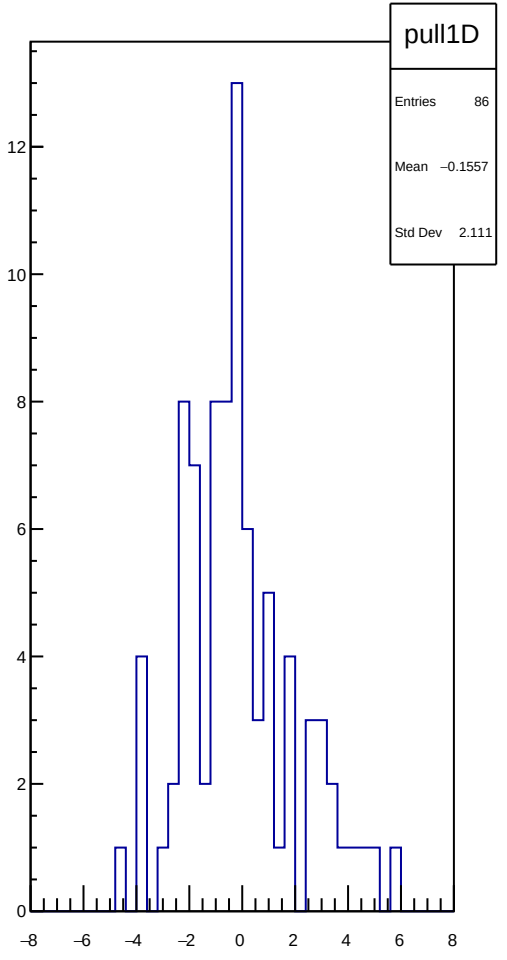

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.326e+05 / 85
p0 216.5 ± 0.1739
450
400
350
300
250
200
150
100

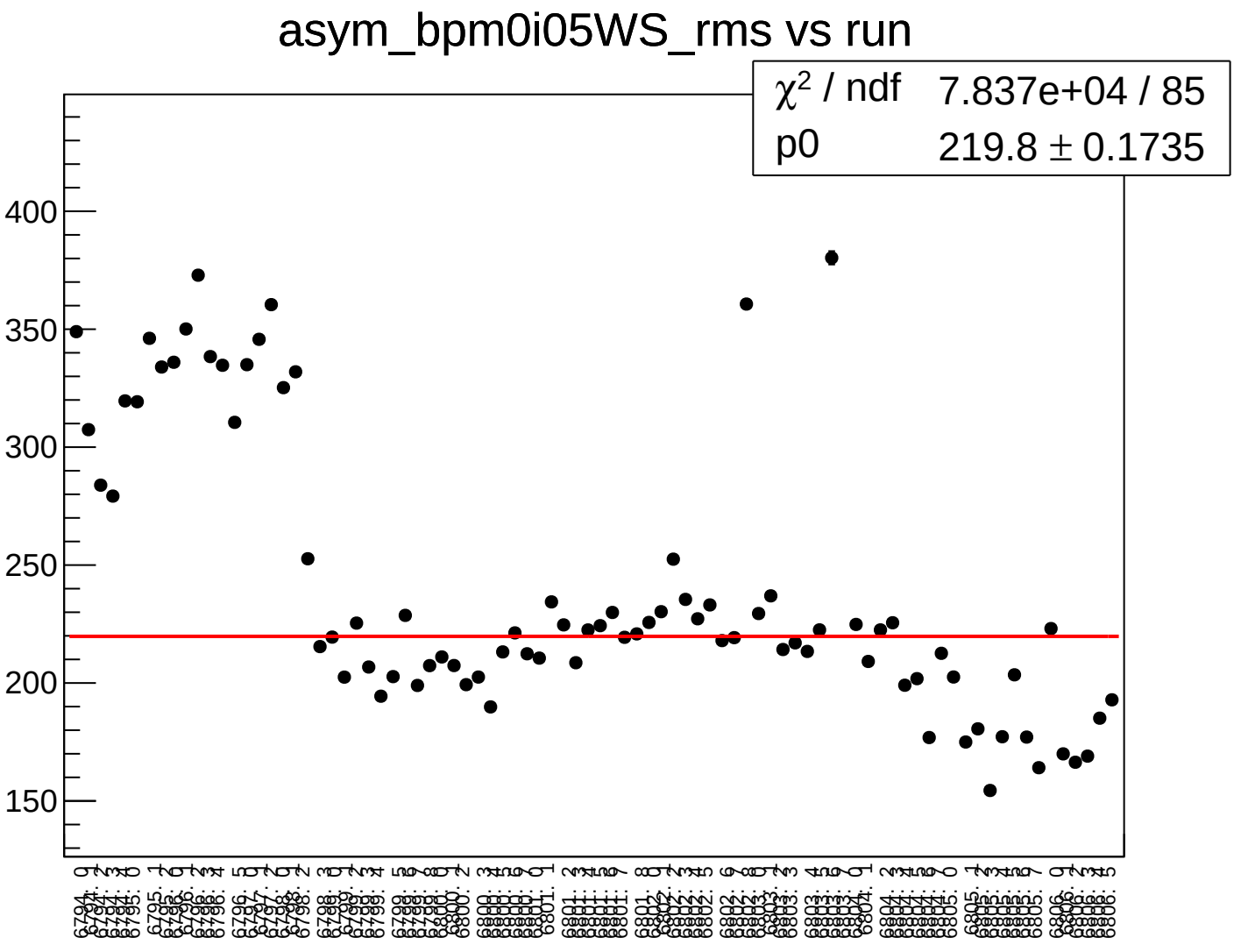

asym_bpm0i02aWS_mean vs run
χ² / ndf 2535 / 85
p0 2.397e+04 ± 245.5
50000
40000
30000
20000
10000
pull
Entries 86
Mean −115.6
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

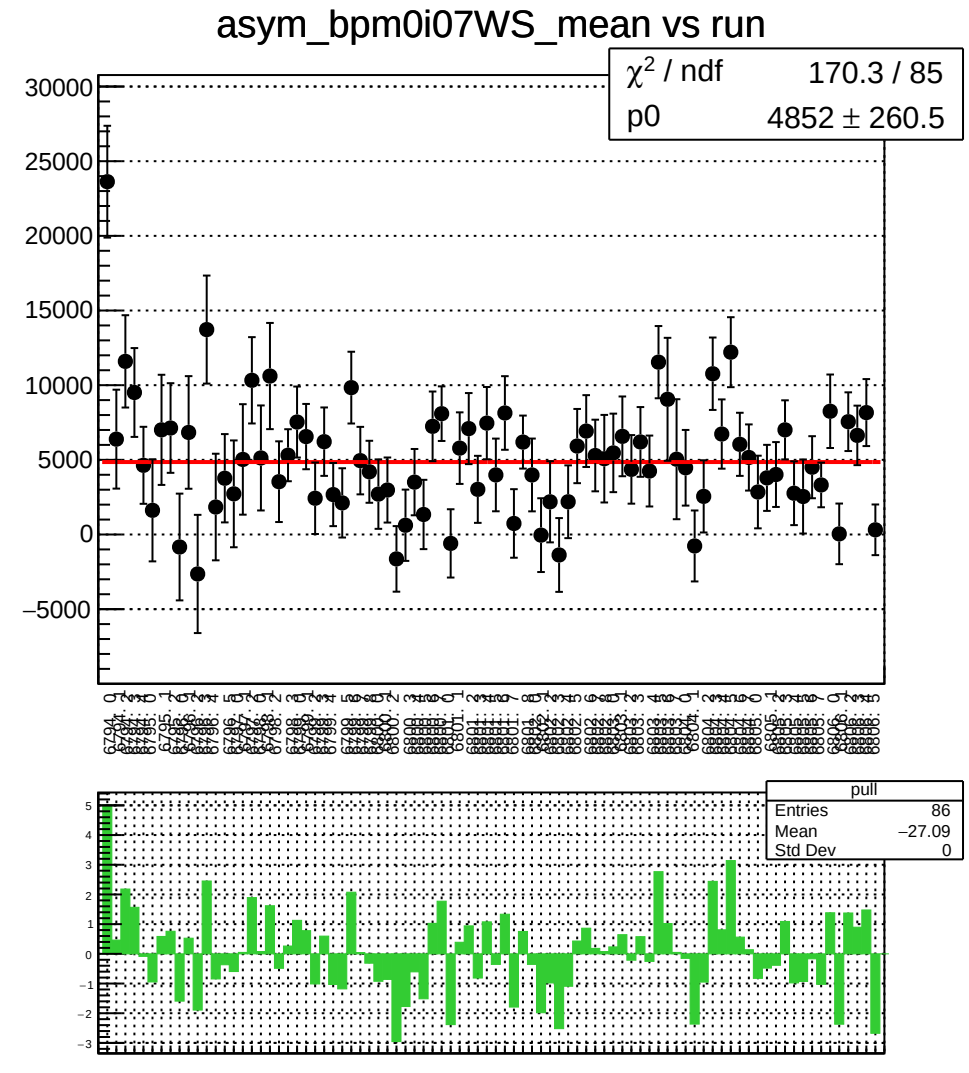

pull1D
Entries 86
Mean −1.461
Std Dev 4.564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

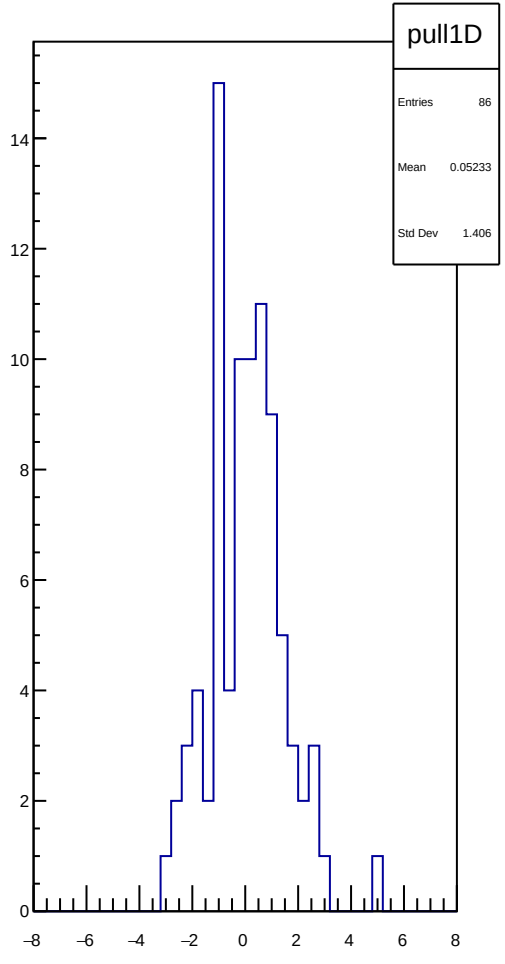

asym_bpm0i02aWS_rms vs run
χ² / ndf 7.947e+04 / 85
p0 219.8 ± 0.1736
400
350
300
250
200
150

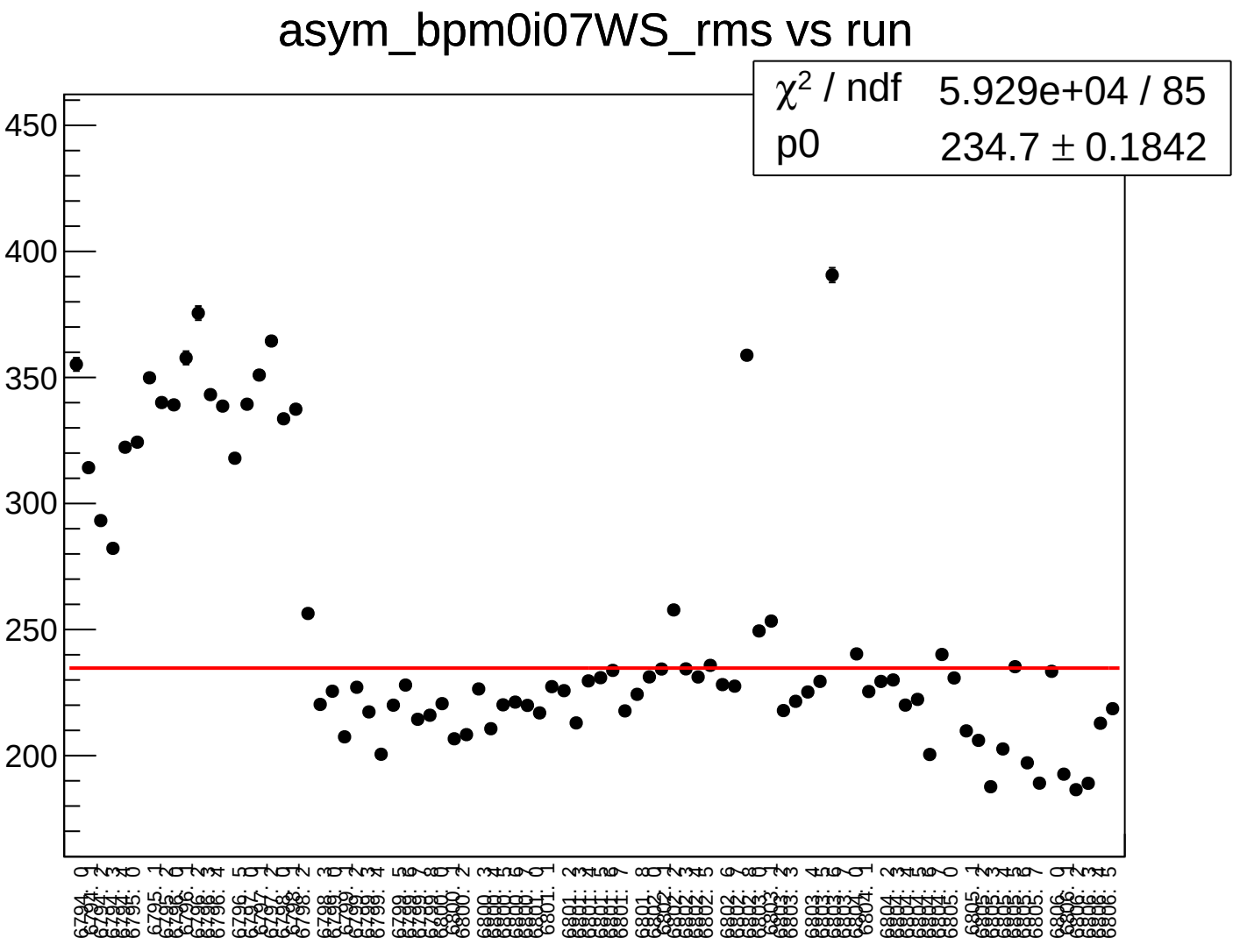

asym_bpm0i05WS_mean vs run
χ² / ndf 385.2 / 85
p0 1.816e+04 ± 245.4
35000
30000
25000
20000
15000
10000
5000
pull
Entries 86
Mean −104.6
Std Dev 0
6
4
2
0
−2
−4

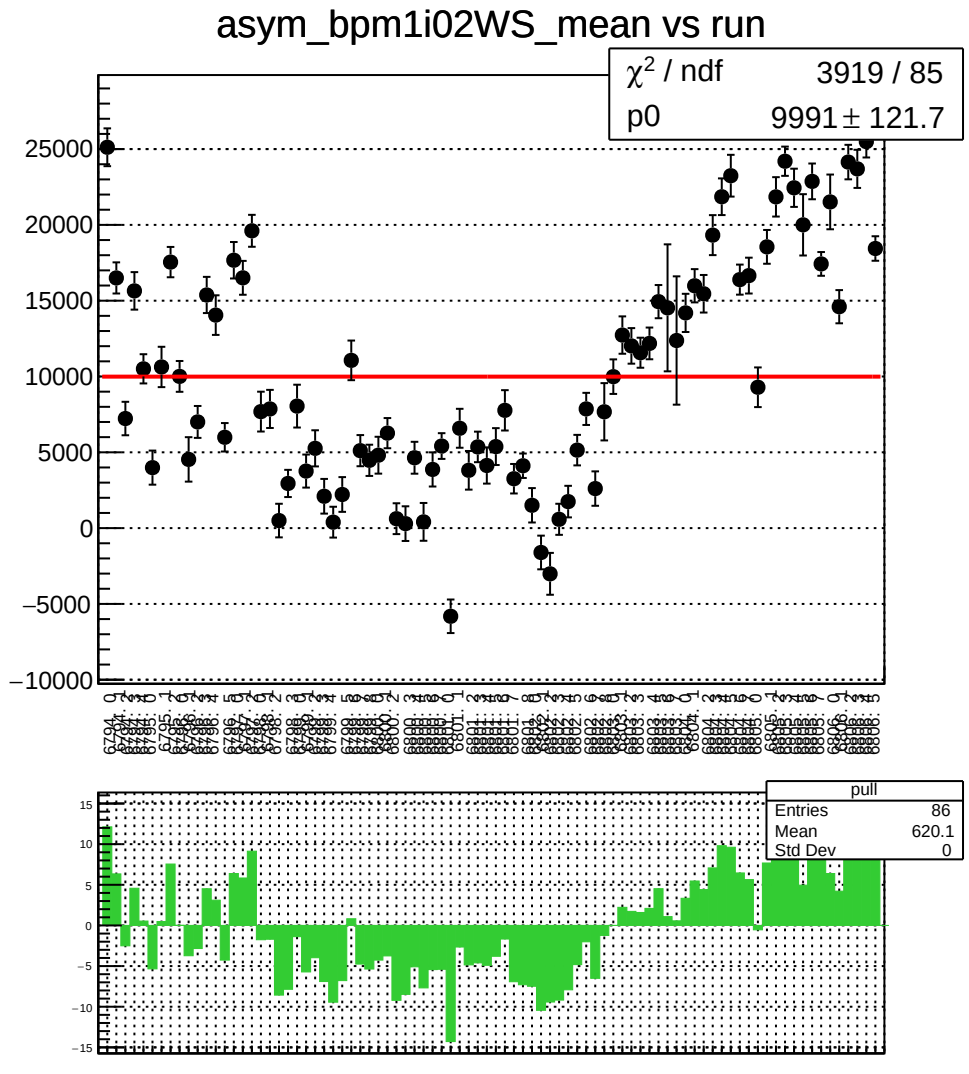

pull1D
Entries 86
Mean −0.1557
Std Dev 2.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

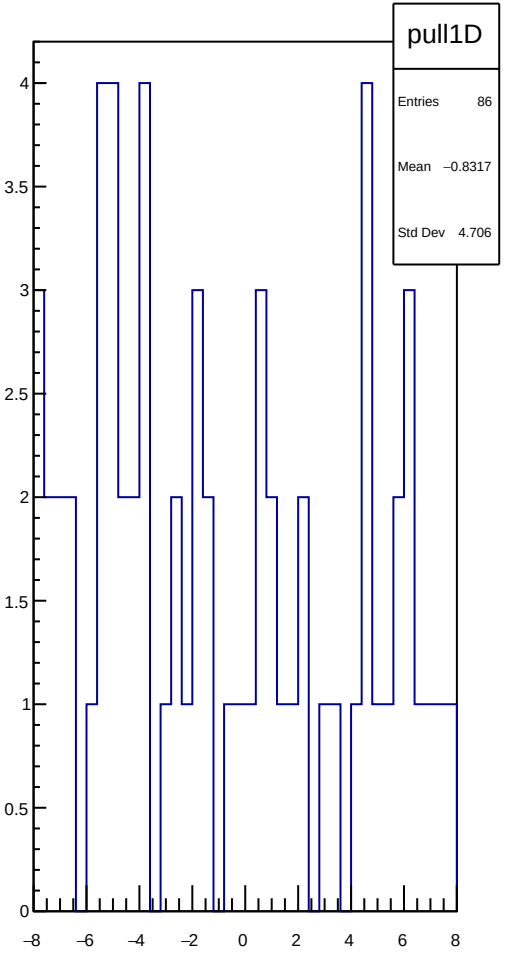

asym_bpm0i05WS_rms vs run
χ² / ndf 7.837e+04 / 85
p0 219.8 ± 0.1735
400
350
300
250
200
150

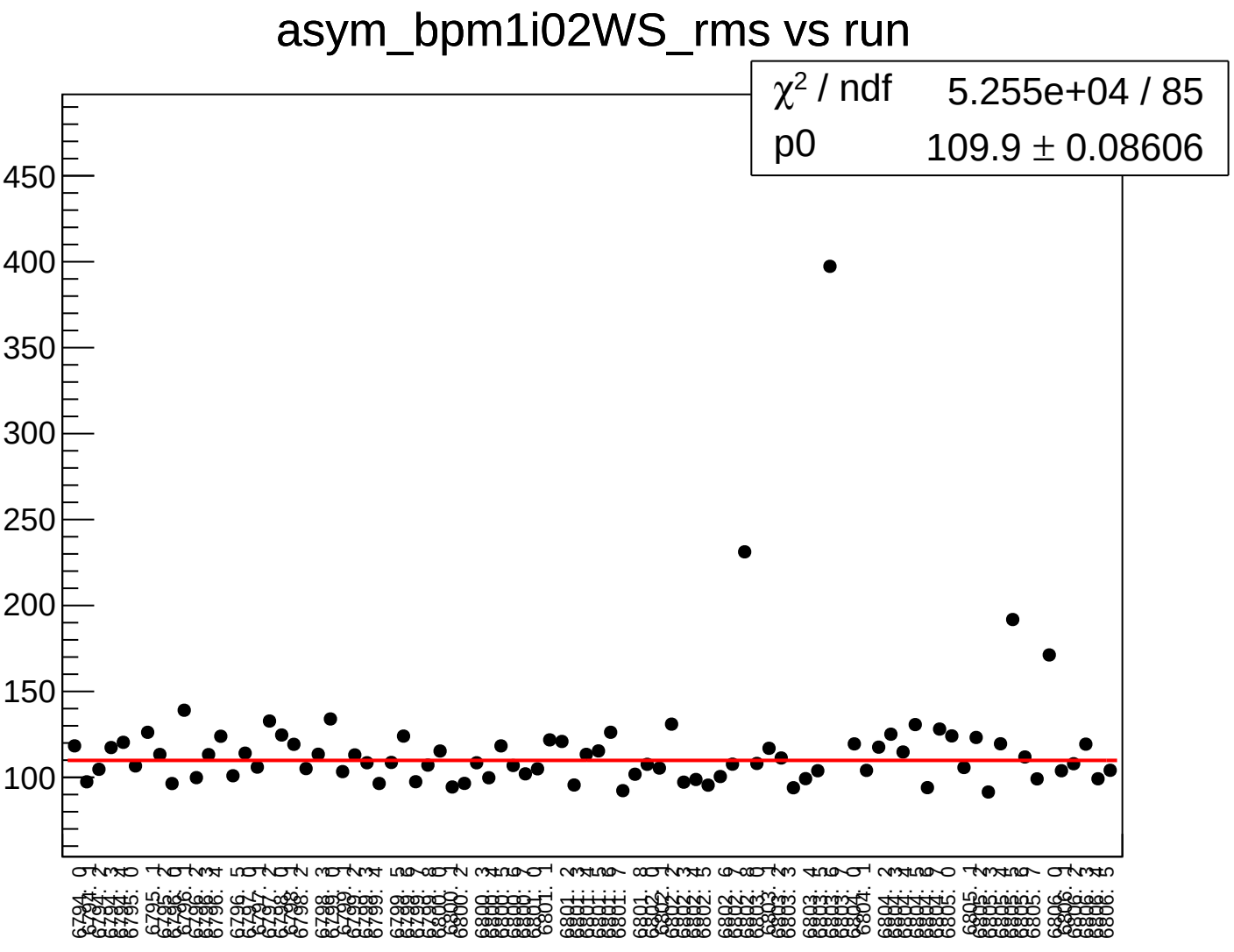

asym_bpm0i07WS_mean vs run
χ² / ndf 170.3 / 85
p0 4852 ± 260.5
30000
25000
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean −27.09
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

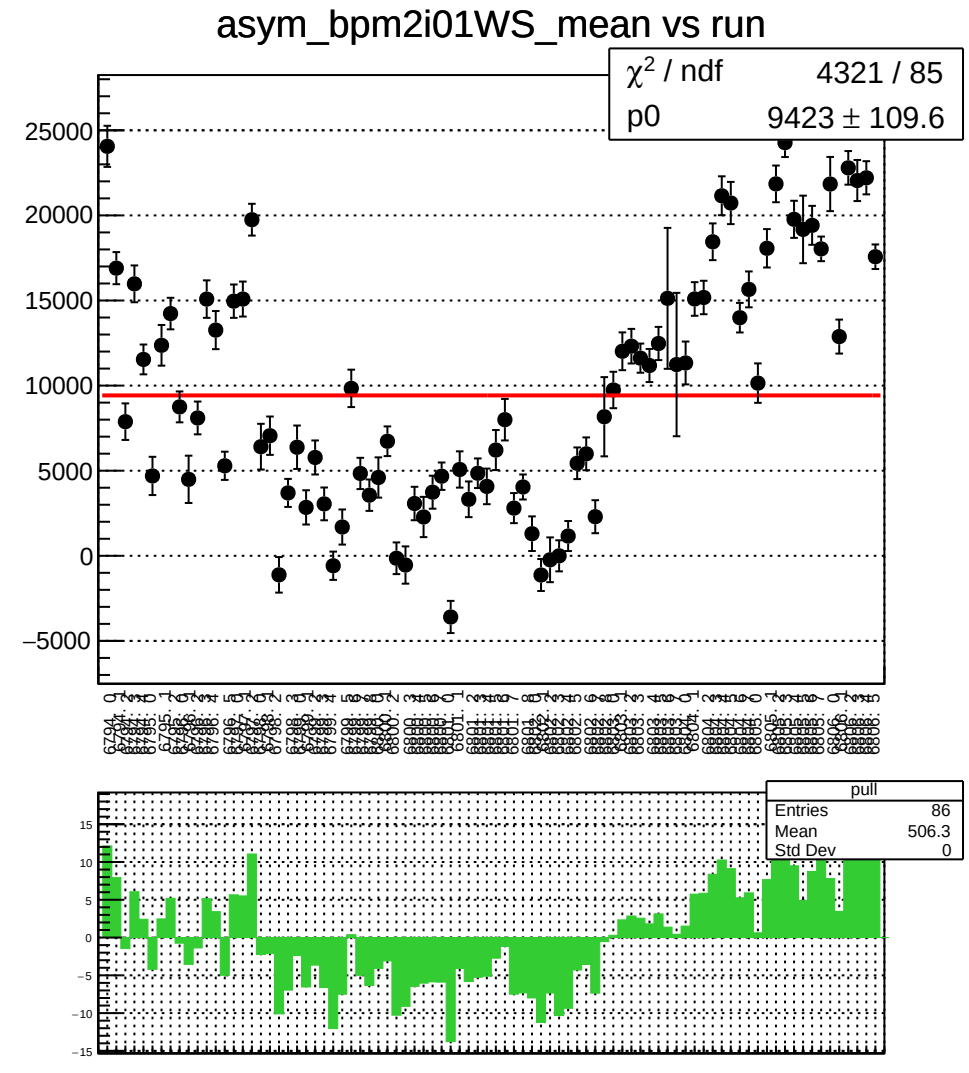

pull1D
Entries 86
Mean 0.05233
Std Dev 1.406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

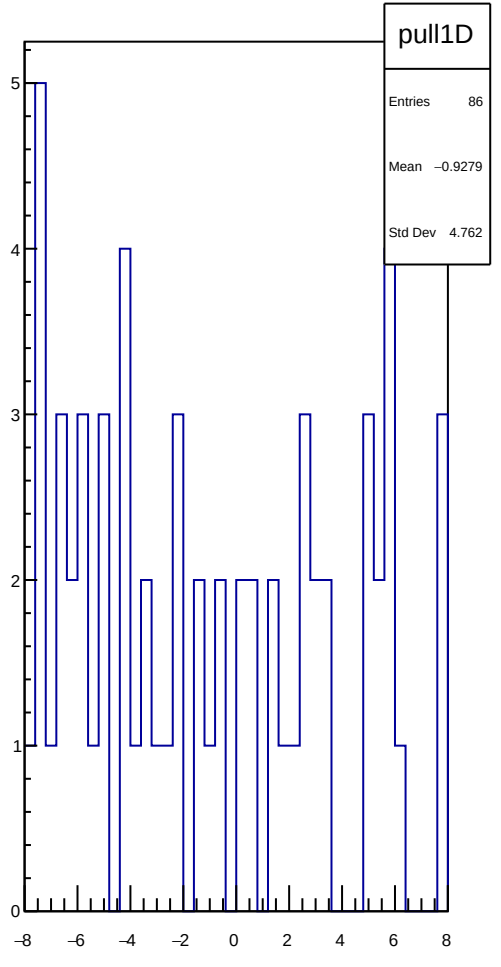

asym_bpm0i07WS_rms vs run
χ^2 / ndf 5.929e+04 / 85
p0 234.7 ± 0.1842
450
400
350
300
250
200

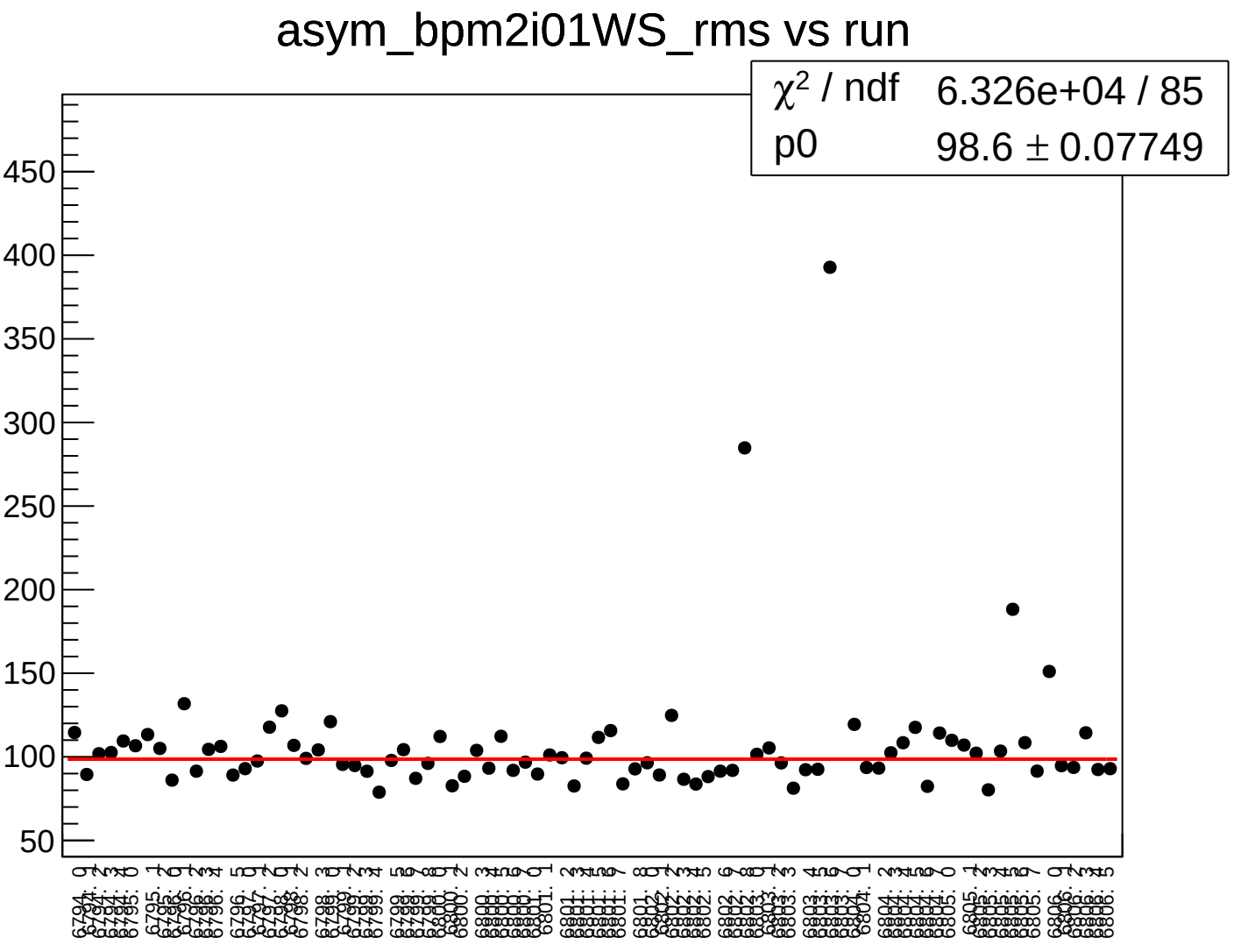

asym_bpm1i02WS_mean vs run
χ² / ndf 3919 / 85
p0 9991 ± 121.7
pull
Entries 86
Mean 620.1
Std Dev 0

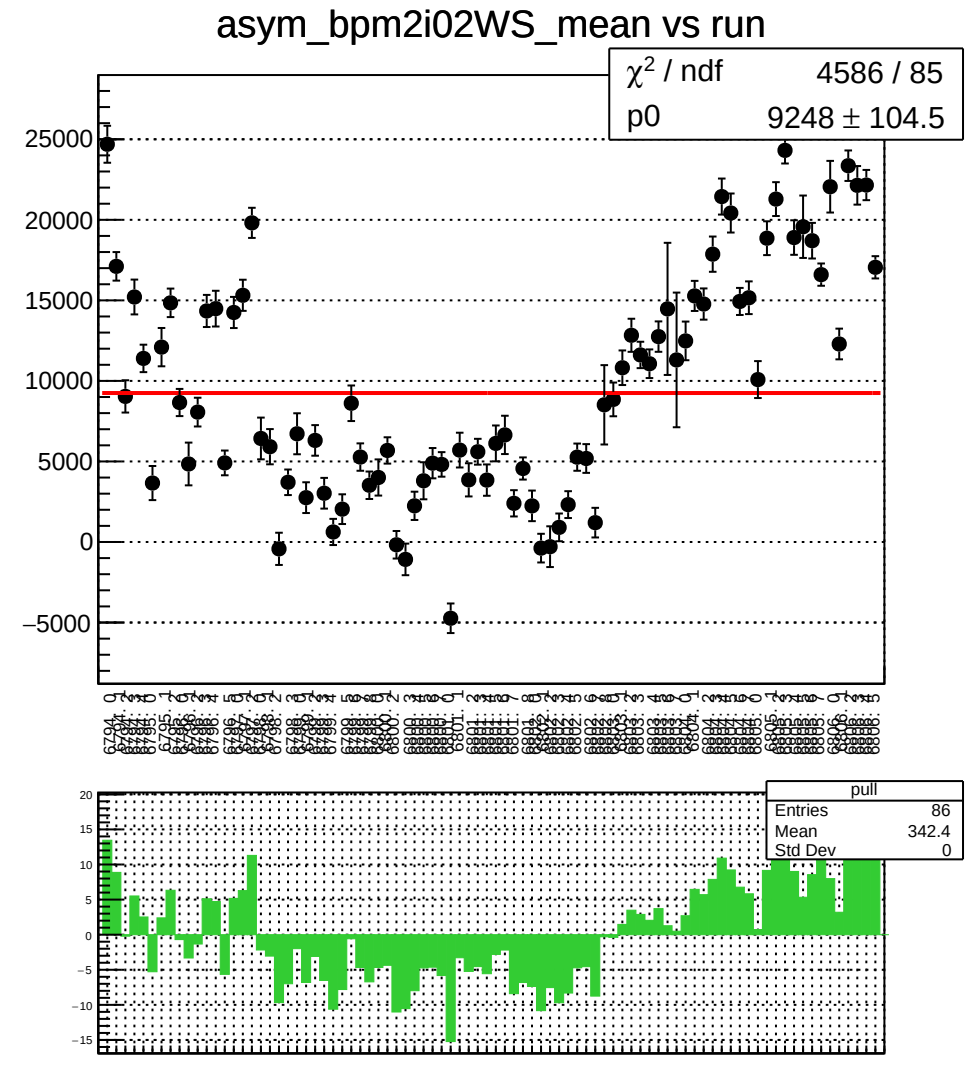

pull1D
Entries 86
Mean −0.8317
Std Dev 4.706

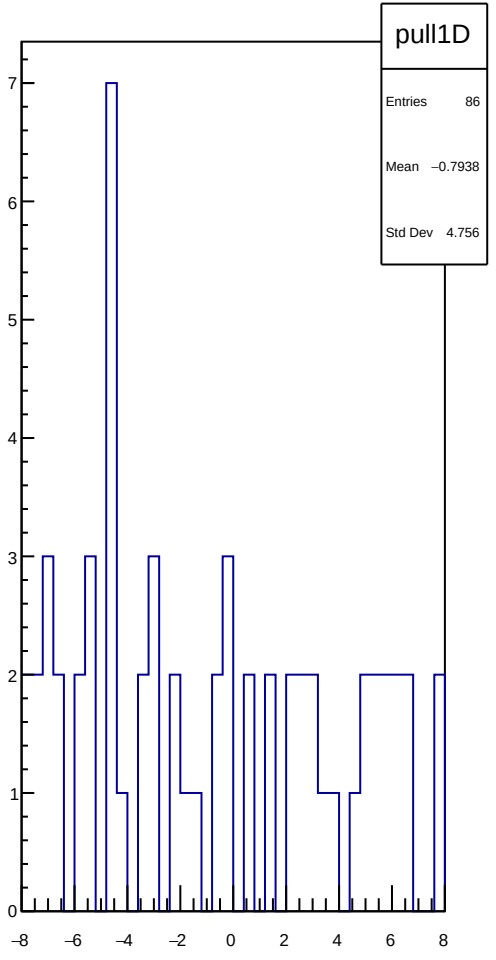

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5.255e+04 / 85
p0 109.9 ± 0.08606
450
400
350
300
250
200
150
100

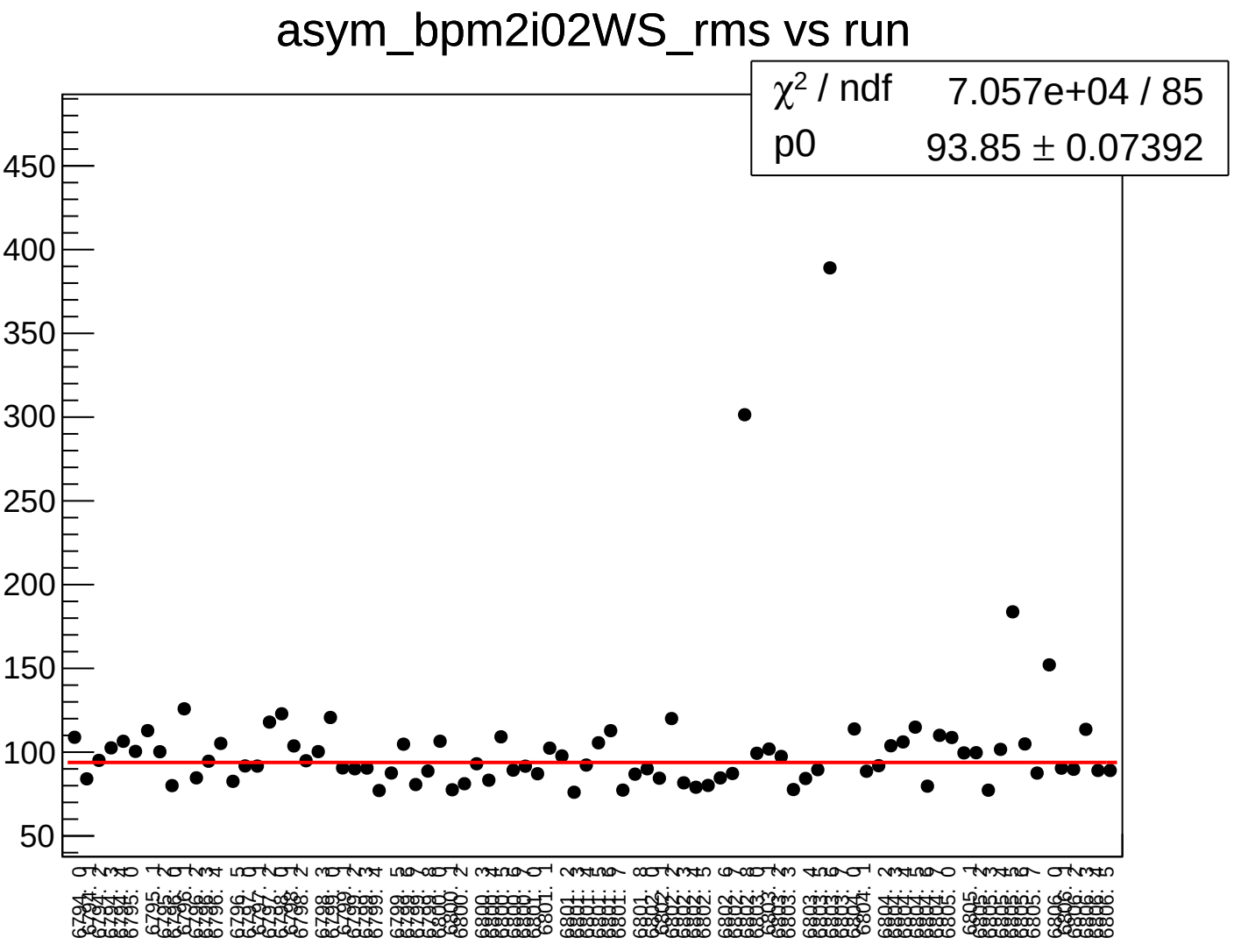

asym_bpm2i01WS_mean vs run
χ² / ndf 4321 / 85
p0 9423 ± 109.6
25000
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean 506.3
Std Dev 0
15
10
5
0
−5
−10
−15

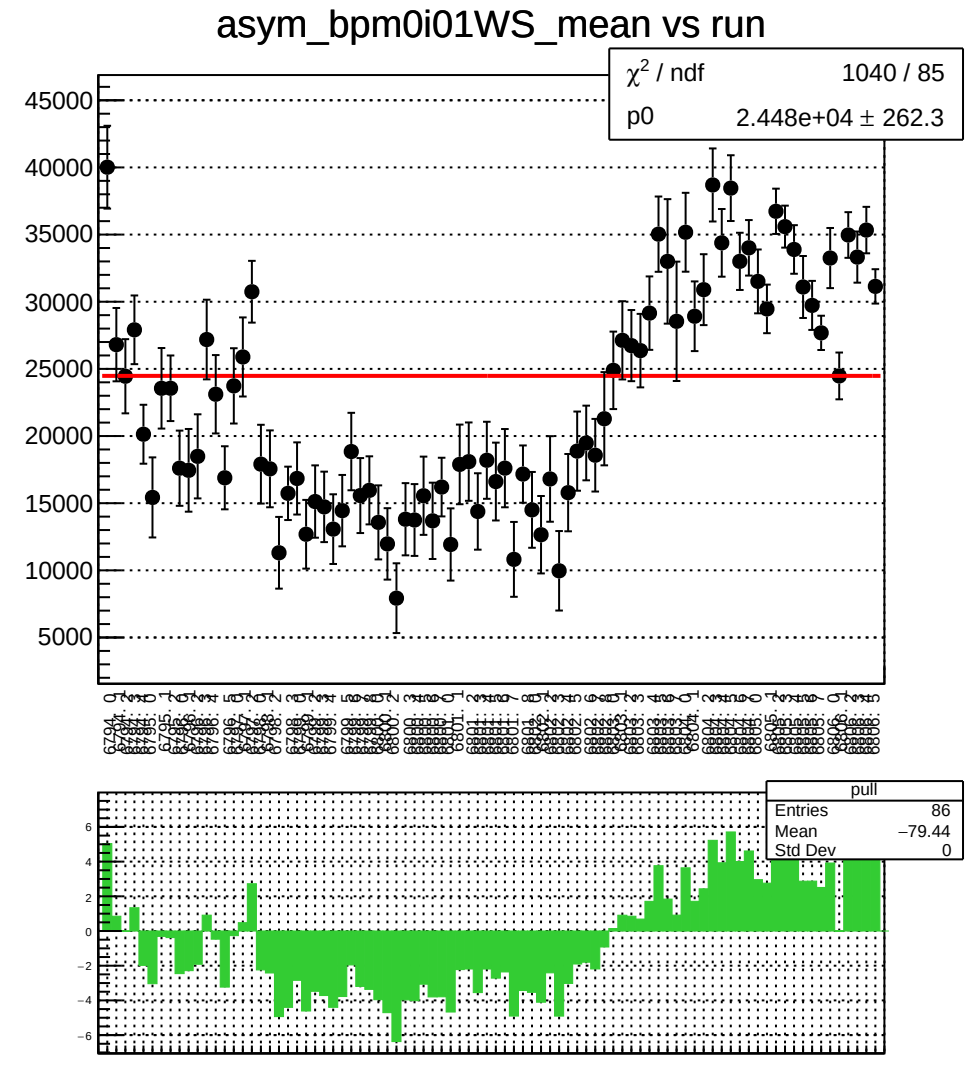

pull1D
Entries 86
Mean −0.9279
Std Dev 4.762
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

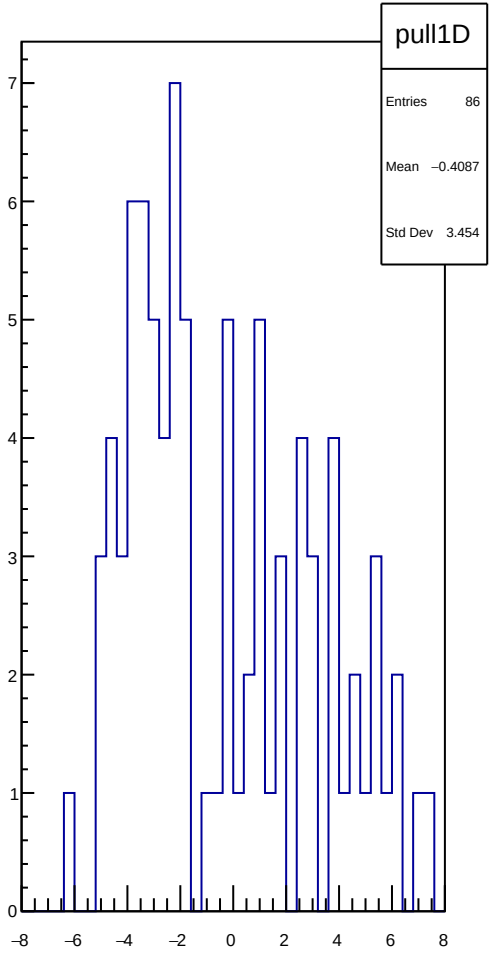

asym_bpm2i01WS_rms vs run
χ² / ndf 6.326e+04 / 85
p0 98.6 ± 0.07749
450
400
350
300
250
200
150
100
50

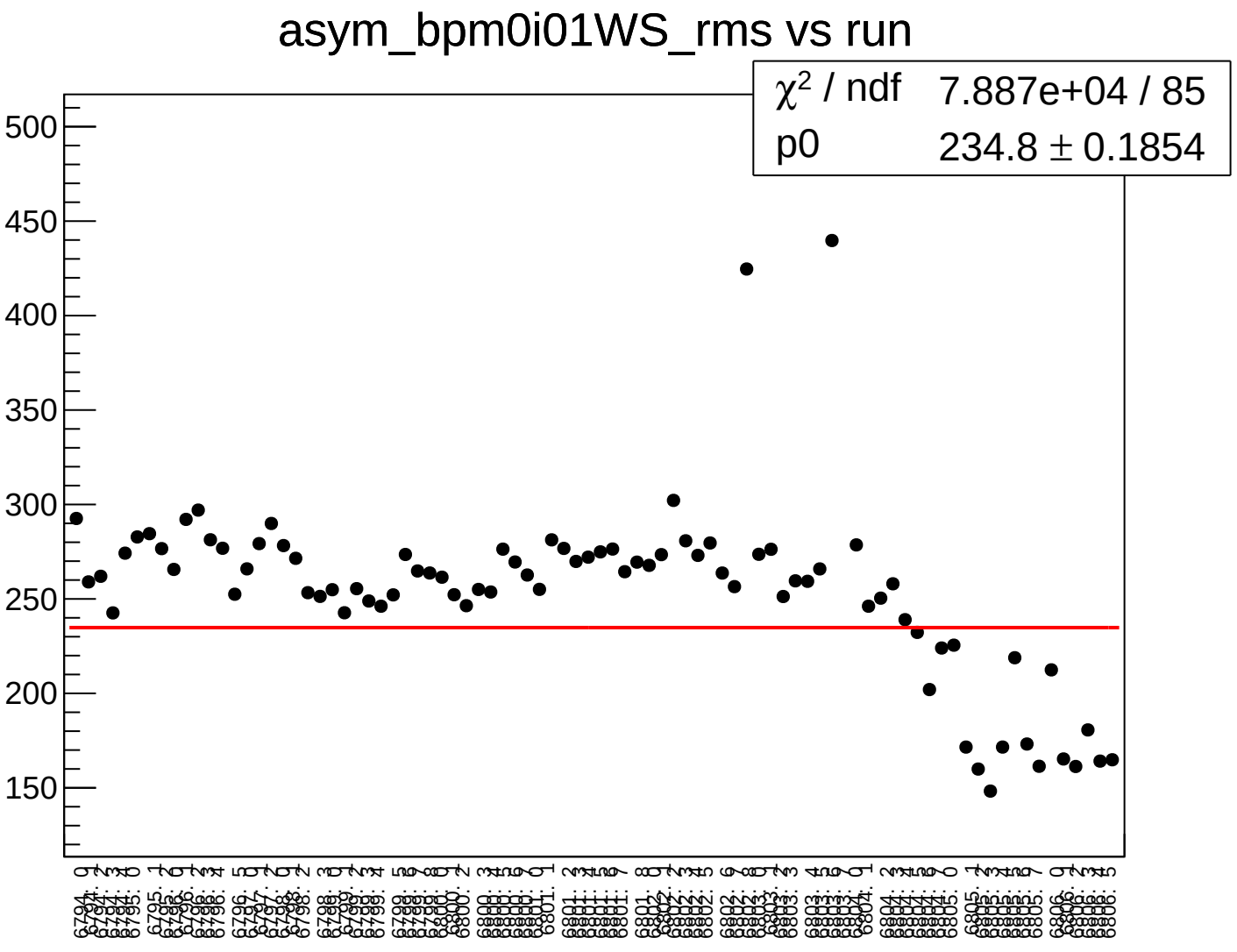

asym_bpm2i02WS_mean vs run
χ² / ndf 4586 / 85
p0 9248 ± 104.5
pull
Entries 86
Mean 342.4
Std Dev 0

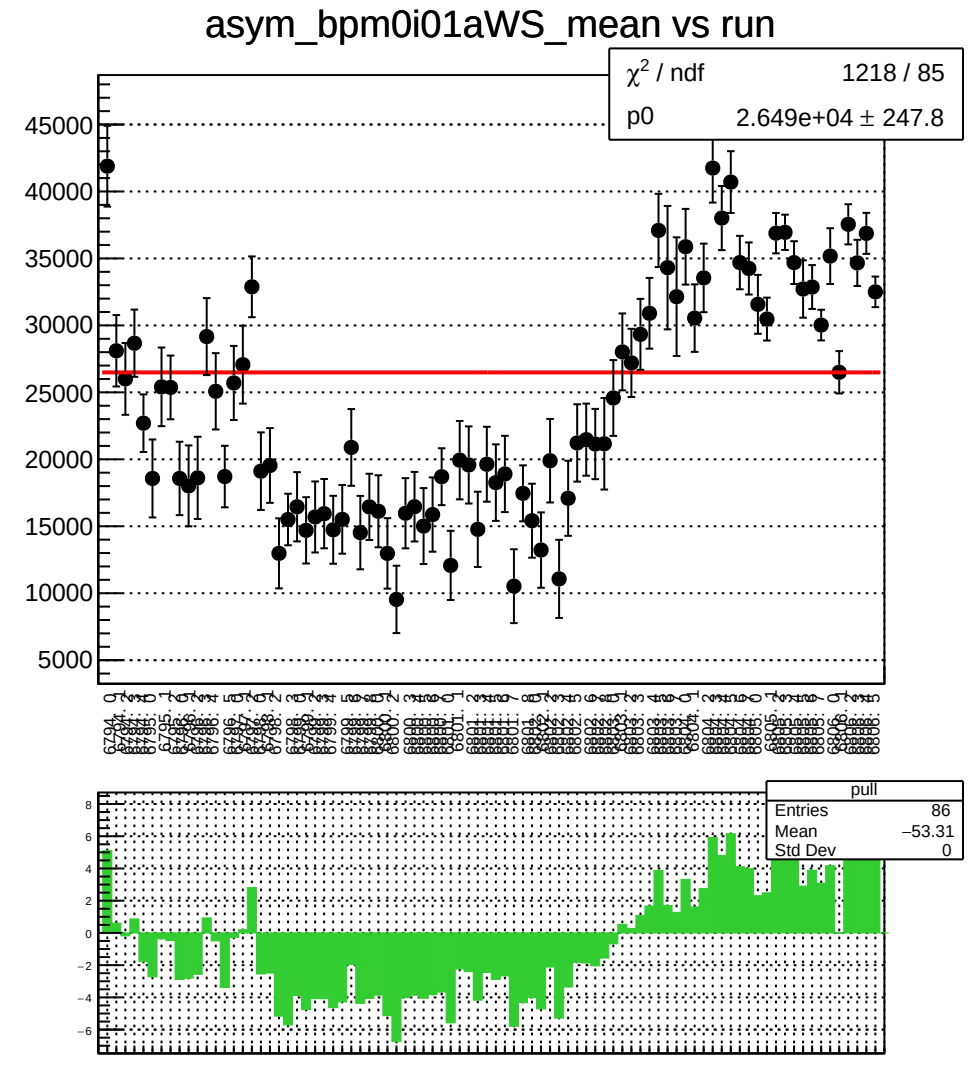

pull1D
Entries 86
Mean −0.7938
Std Dev 4.756

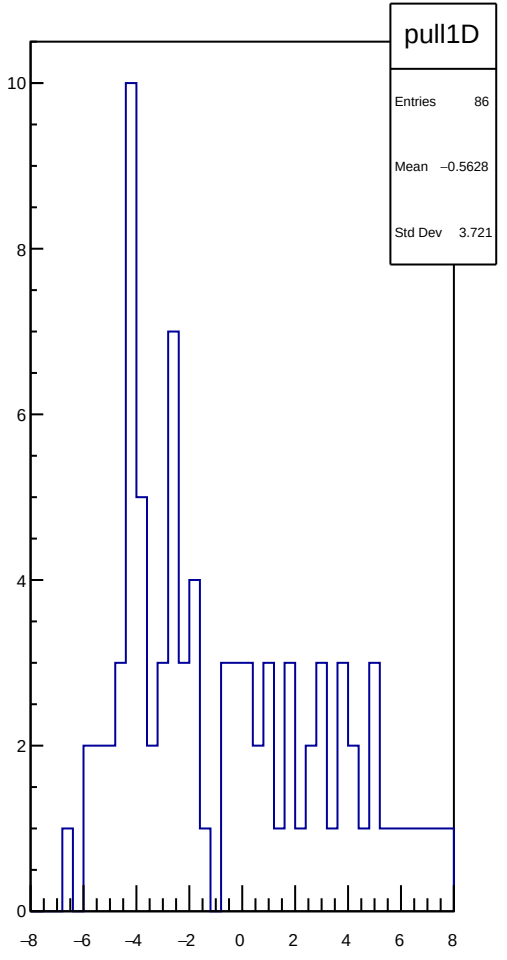

asym_bpm2i02WS_rms vs run
χ^2 / ndf 7.057e+04 / 85
p0 93.85 ± 0.07392
450
400
350
300
250
200
150
100
50

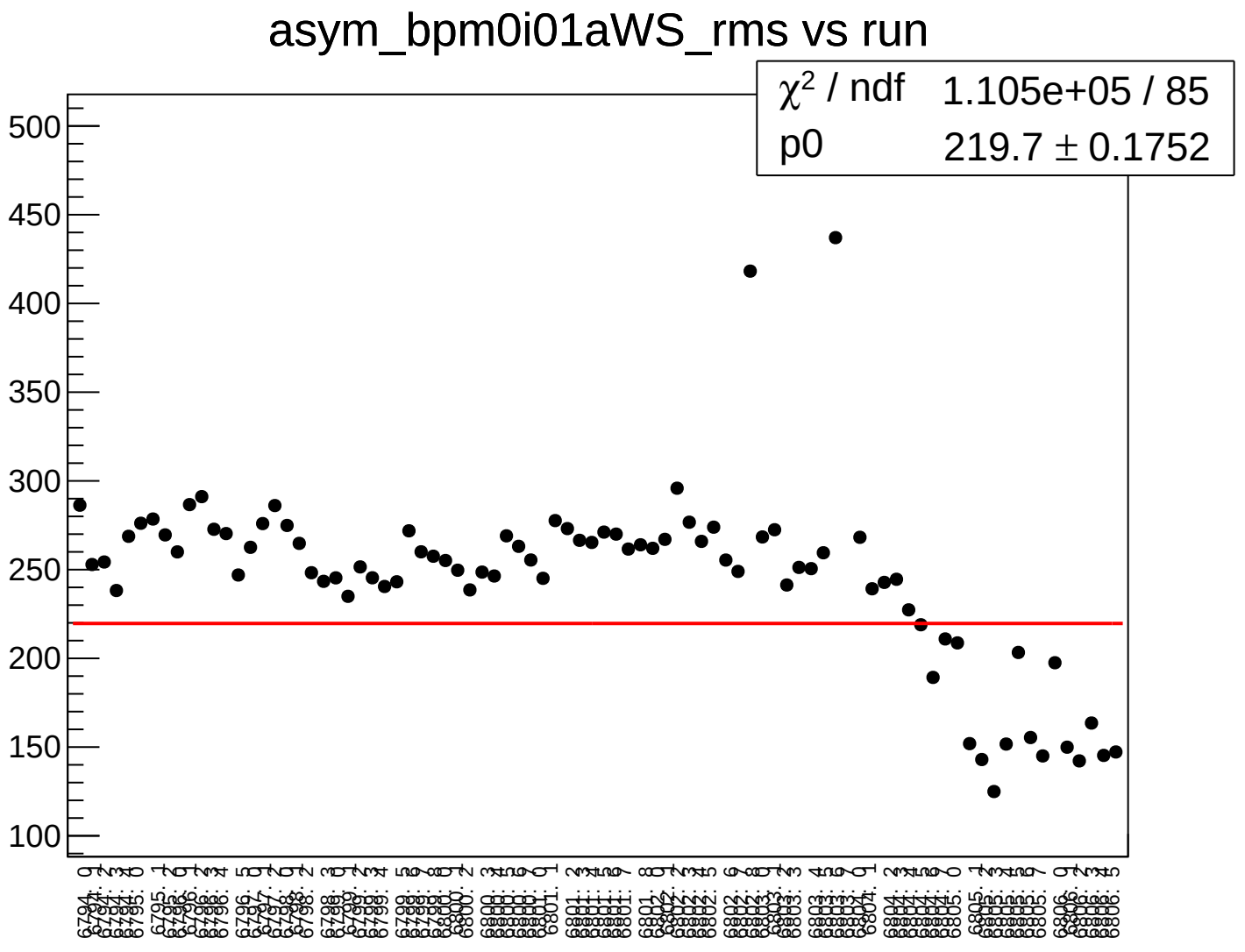

asym_bpm0i01WS_mean vs run
χ² / ndf 1040 / 85
p0 2.448e+04 ± 262.3
pull
Entries 86
Mean −79.44
Std Dev 0

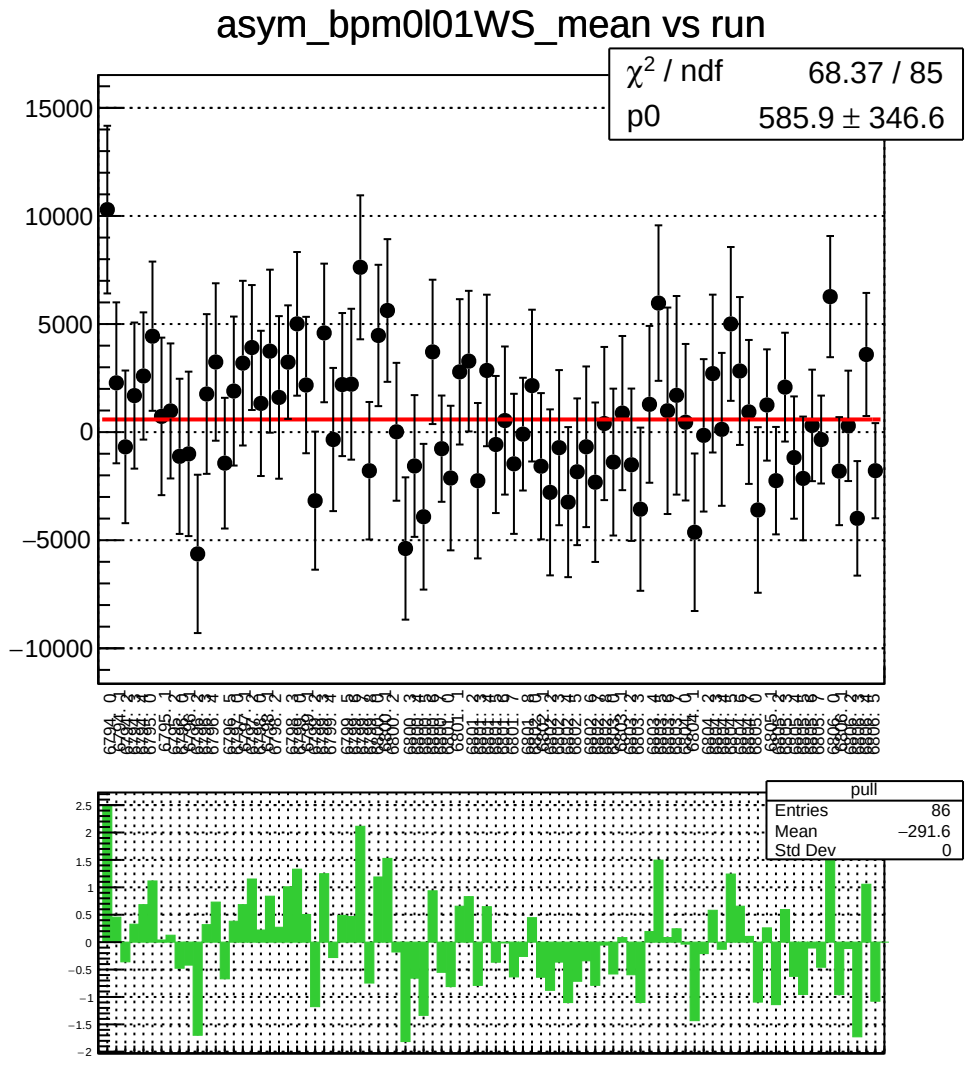

pull1D
Entries 86
Mean −0.4087
Std Dev 3.454

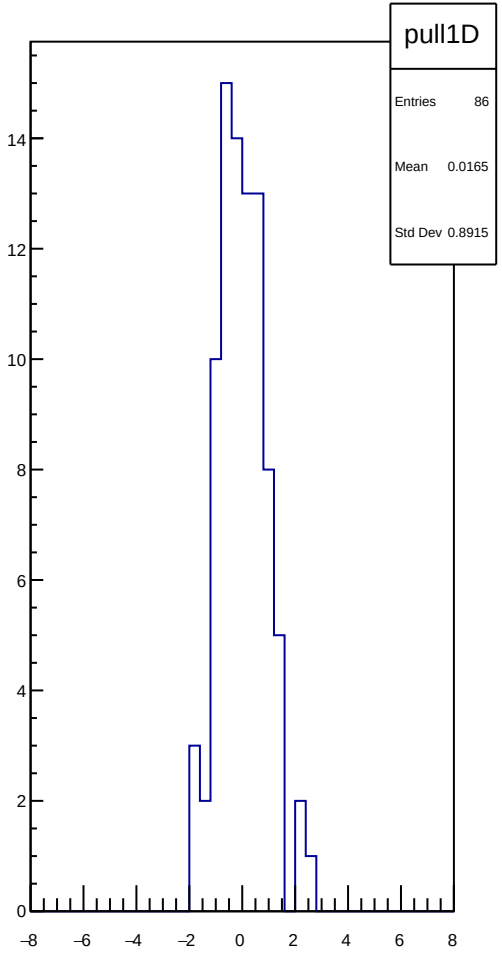

asym_bpm0i01WS_rms vs run
χ² / ndf 7.887e+04 / 85
p0 234.8 ± 0.1854
500
450
400
350
300
250
200
150

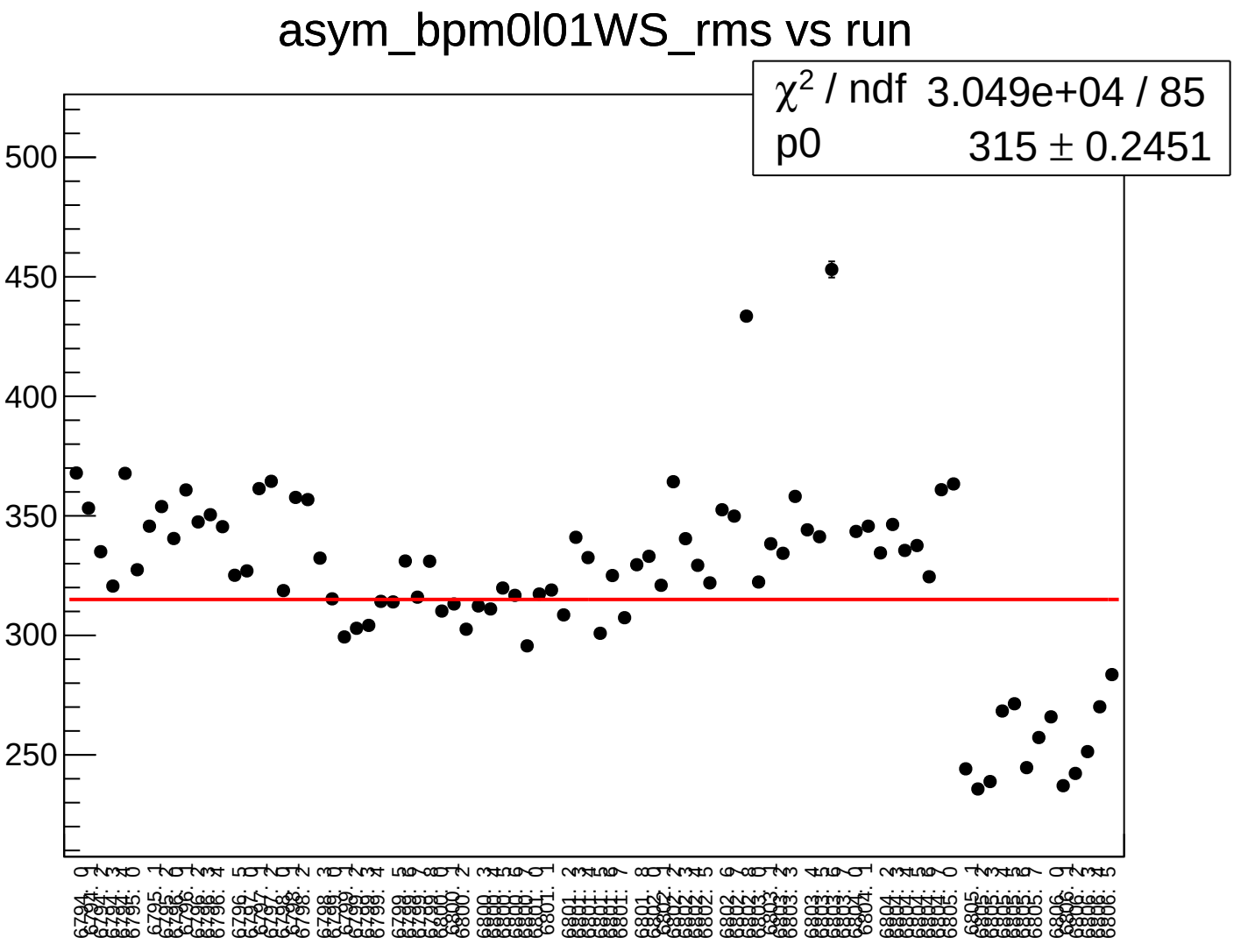

asym_bpm0i01aWS_mean vs run
χ² / ndf 1218 / 85
p0 2.649e+04 ± 247.8
pull
Entries 86
Mean −53.31
Std Dev 0

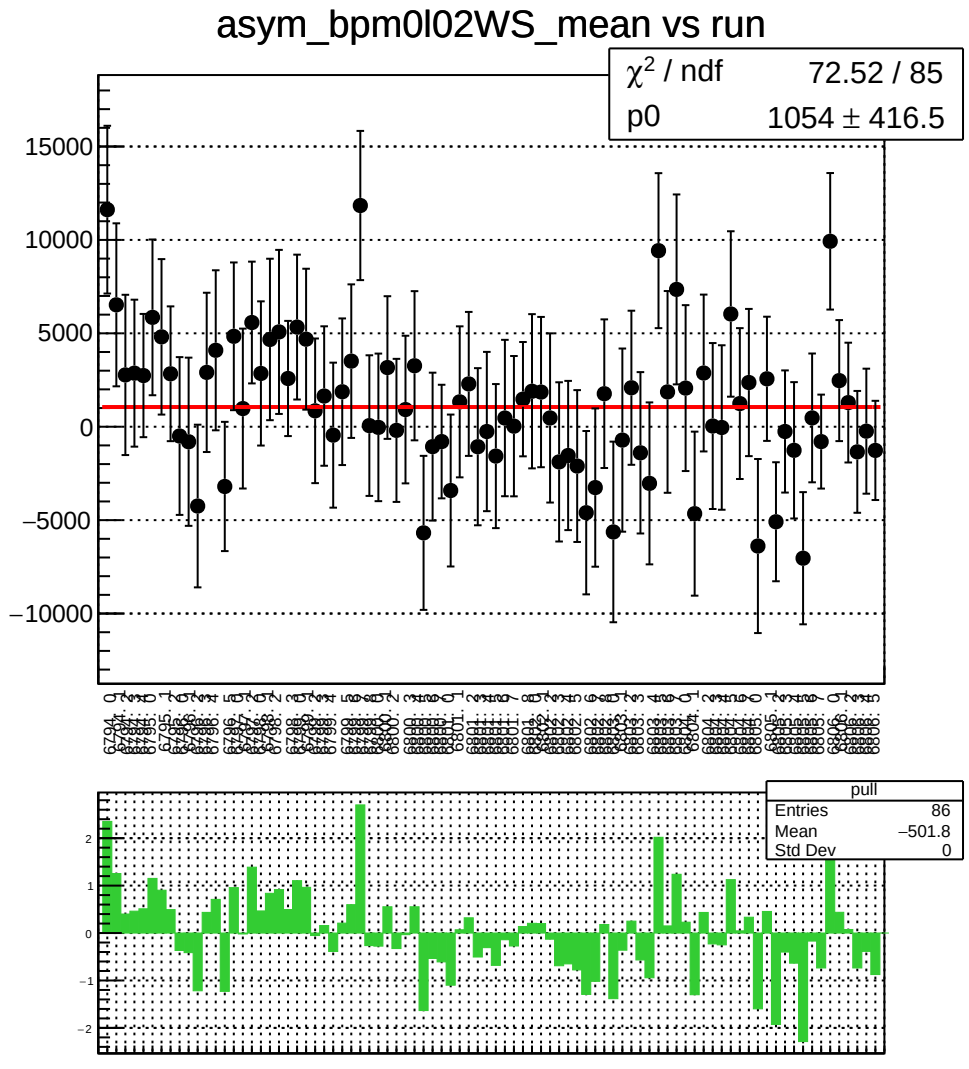

pull1D
Entries 86
Mean −0.5628
Std Dev 3.721

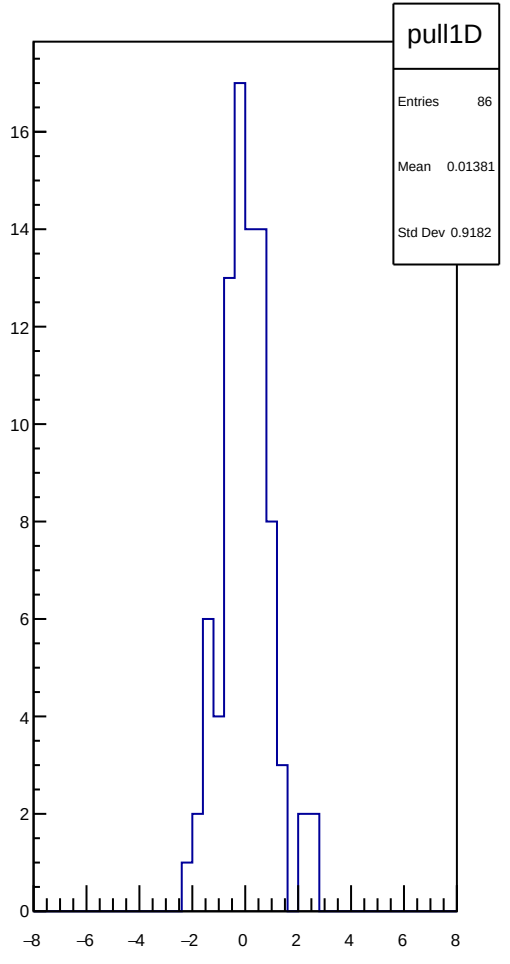

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 1.105e+05 / 85
p0 219.7 ± 0.1752
500
450
400
350
300
250
200
150
100

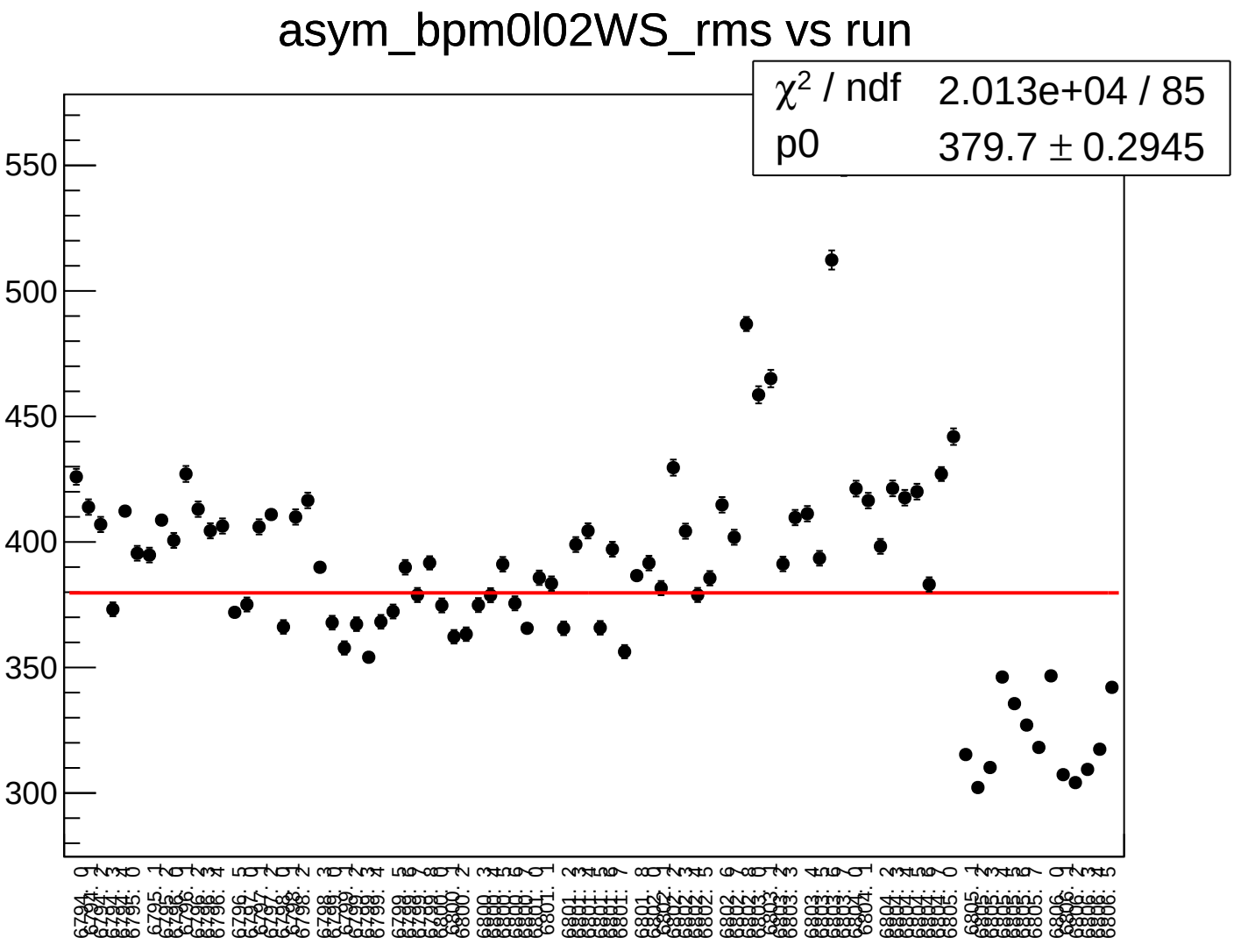

asym_bpm0l01WS_mean vs run
χ² / ndf 68.37 / 85
p0 585.9 ± 346.6
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −291.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

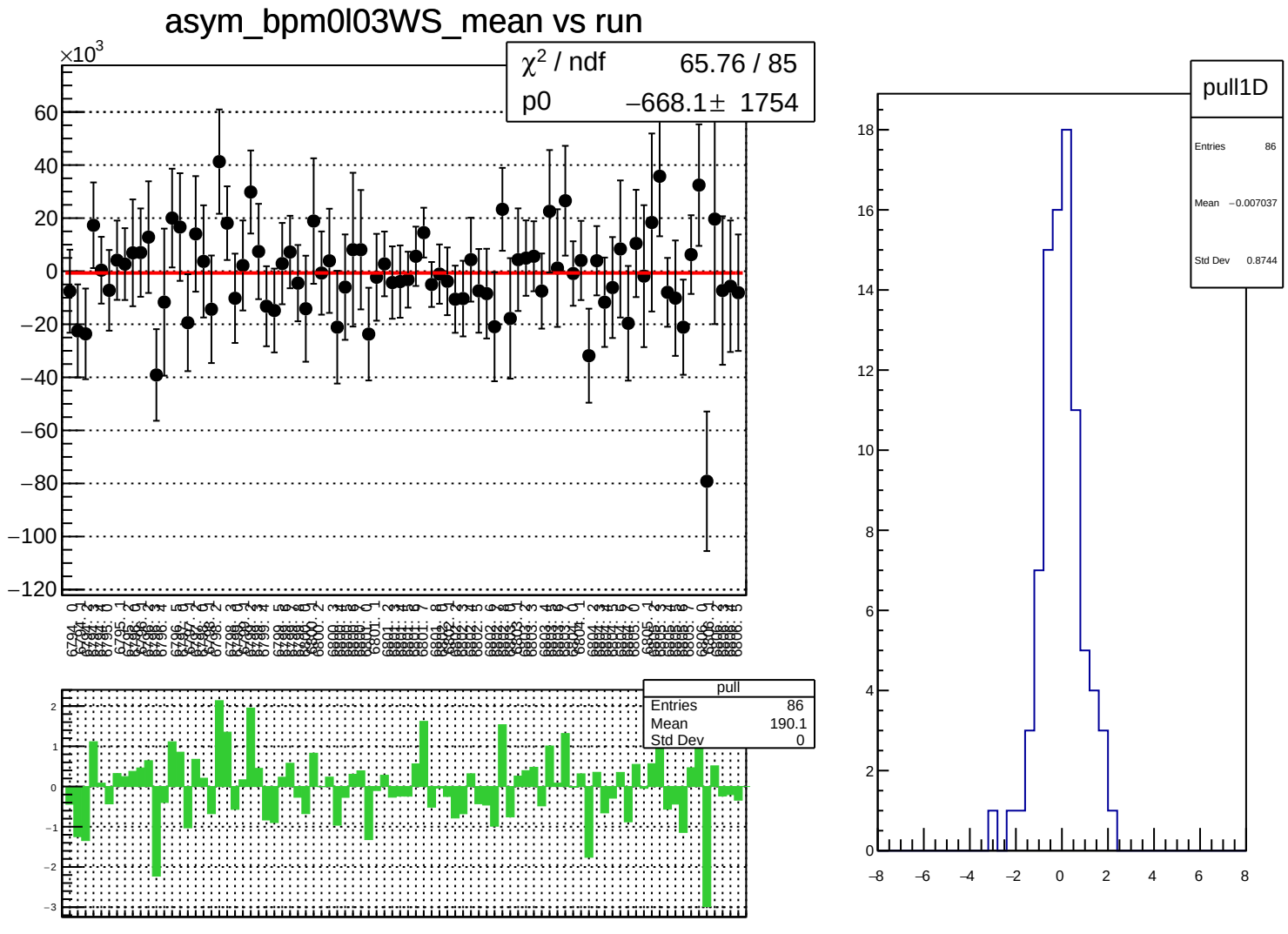

pull1D
Entries 86
Mean 0.0165
Std Dev 0.8915
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

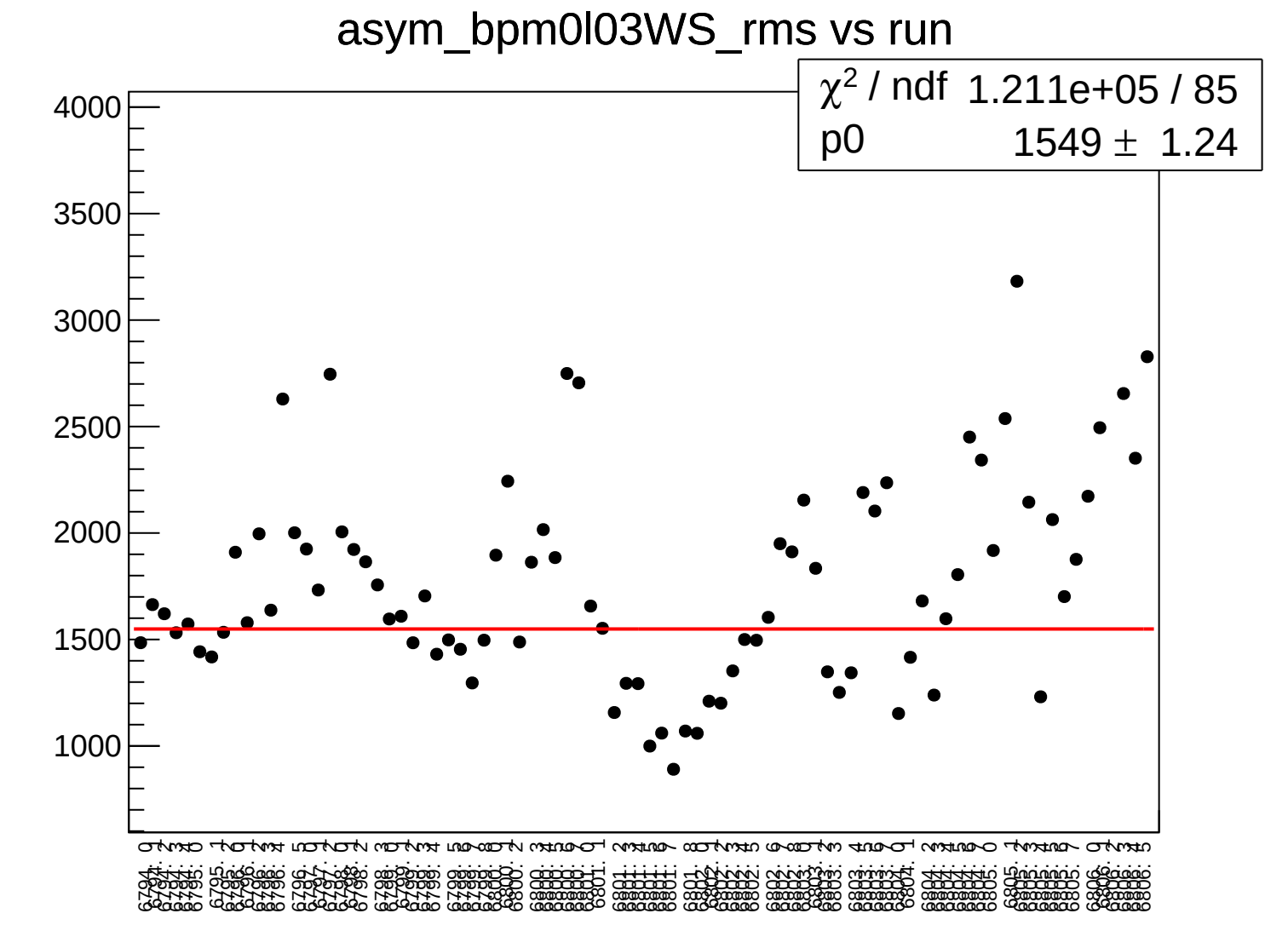

asym_bpm0l01WS_rms vs run
χ² / ndf 3.049e+04 / 85
p0 315 ± 0.2451
500
450
400
350
300
250

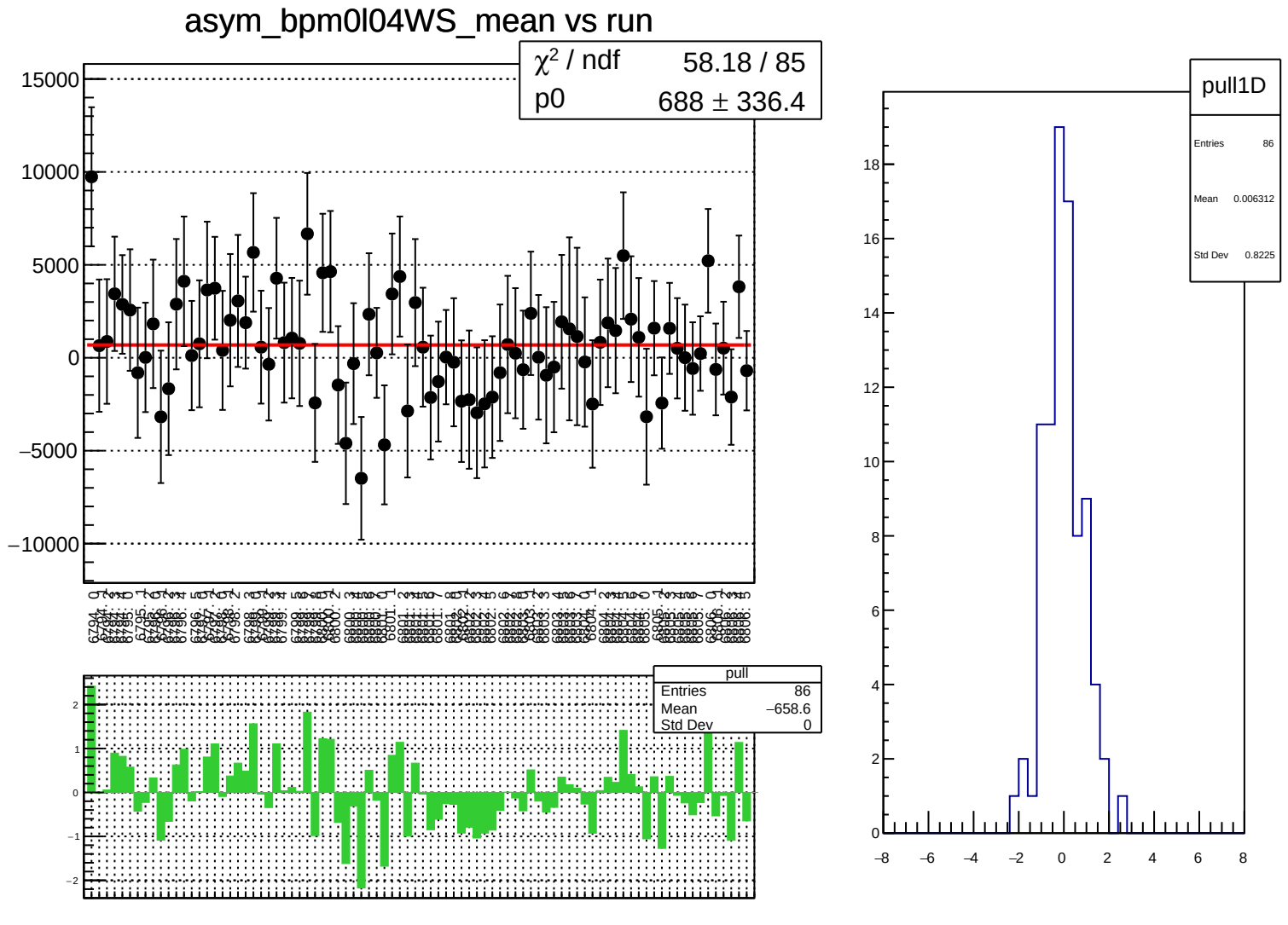

asym_bpm0l02WS_mean vs run
χ² / ndf 72.52 / 85
p0 1054 ± 416.5
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −501.8
Std Dev 0
2
1
0
−1
−2

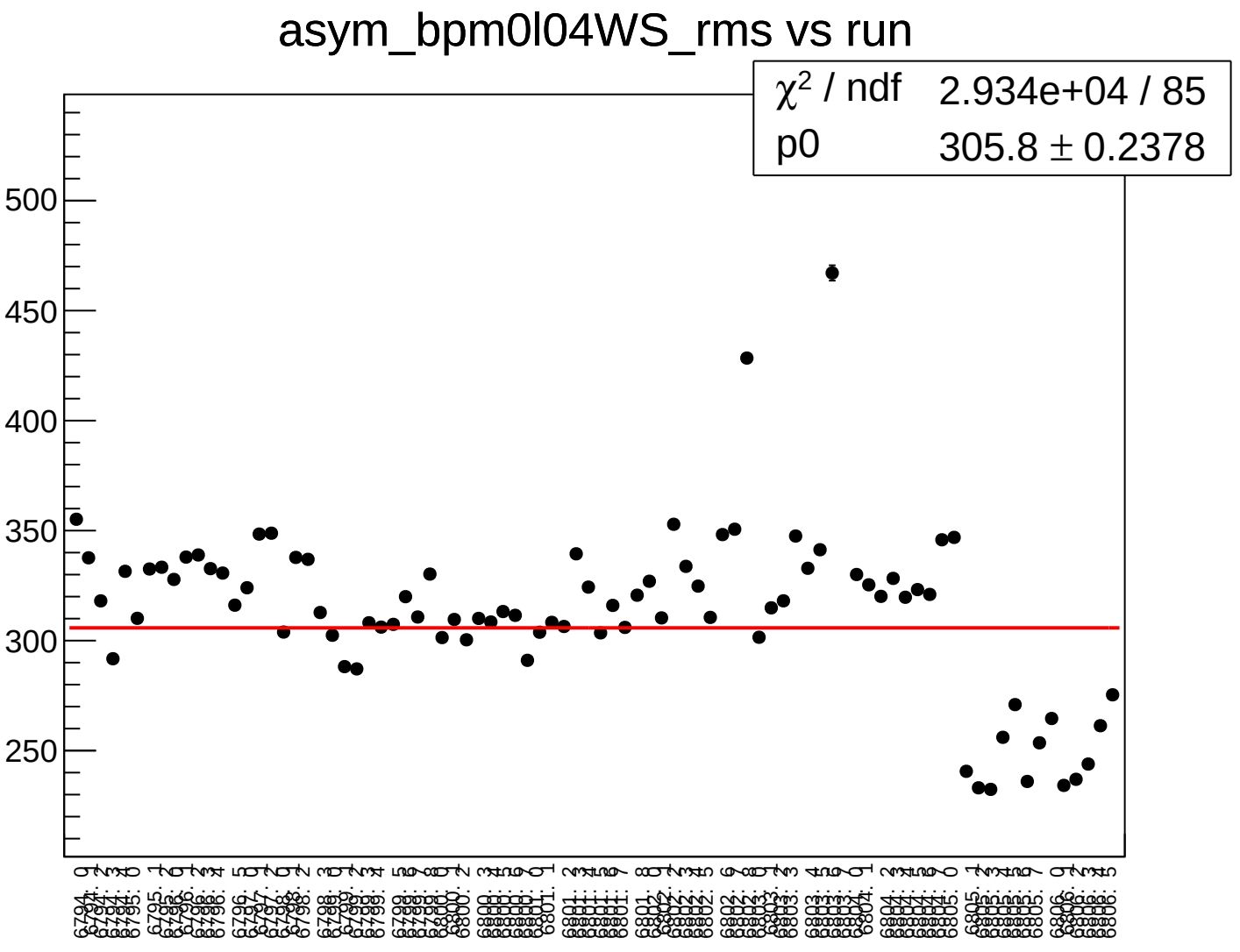

pull1D
Entries 86
Mean 0.01381
Std Dev 0.9182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

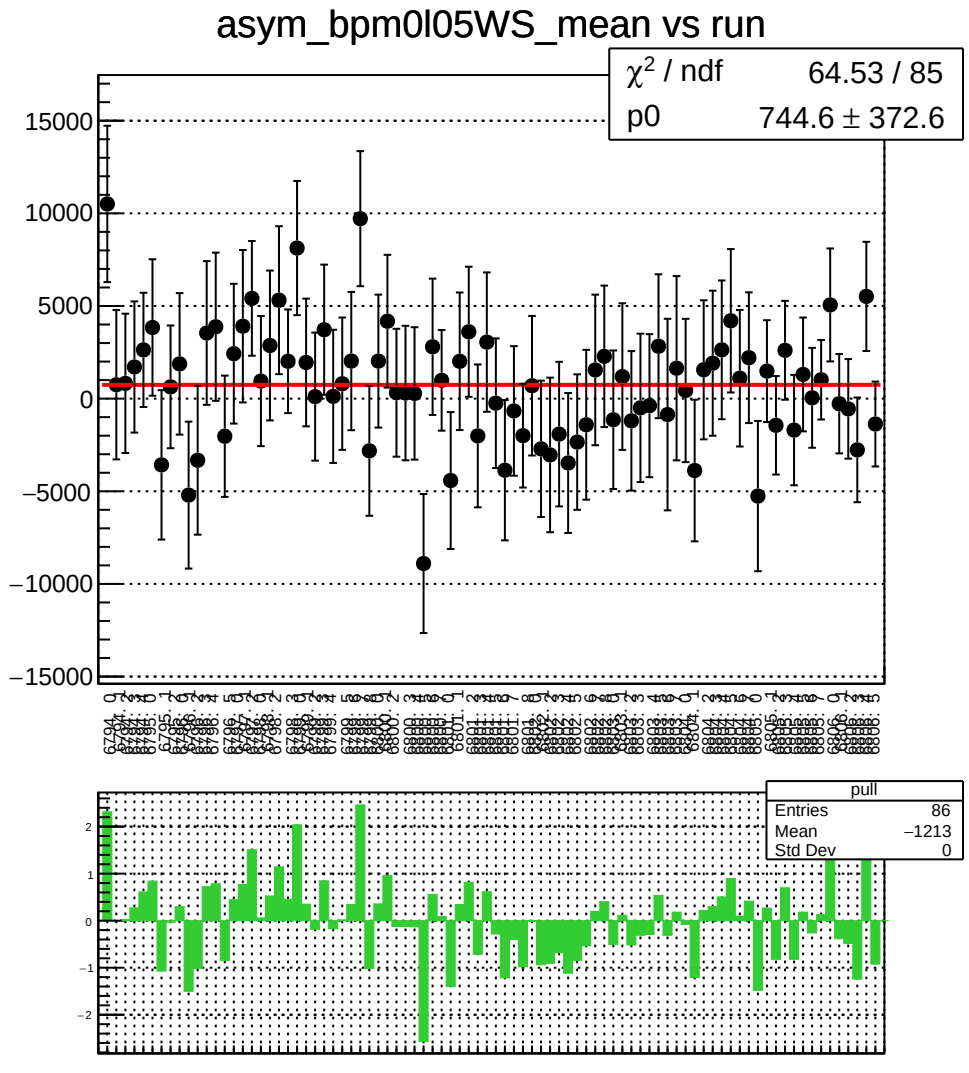

asym_bpm0l02WS_rms vs run
χ^2 / ndf 2.013e+04 / 85
p0 379.7 ± 0.2945
550
500
450
400
350
300

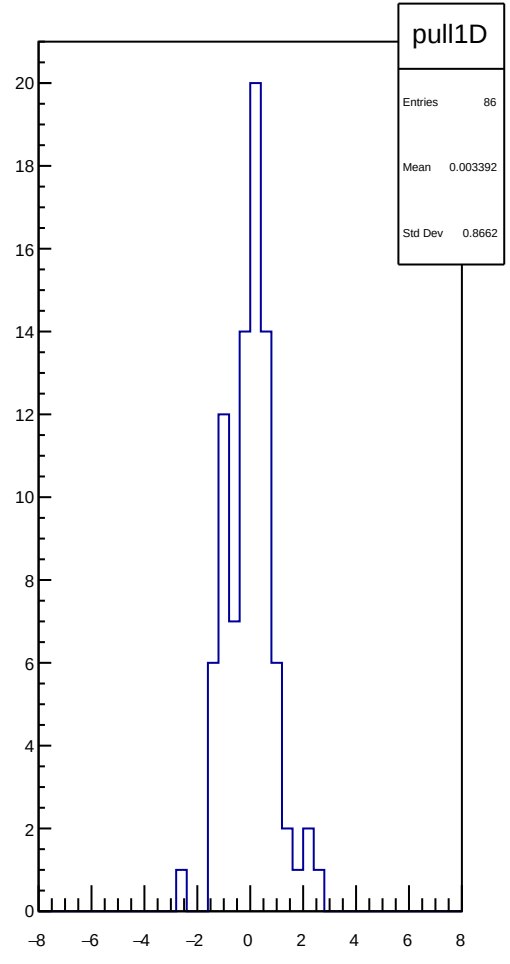

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 65.76 / 85
p0 −668.1± 1754
pull
Entries 86
Mean 190.1
Std Dev 0
pull1D
Entries 86
Mean −0.007037
Std Dev 0.8744

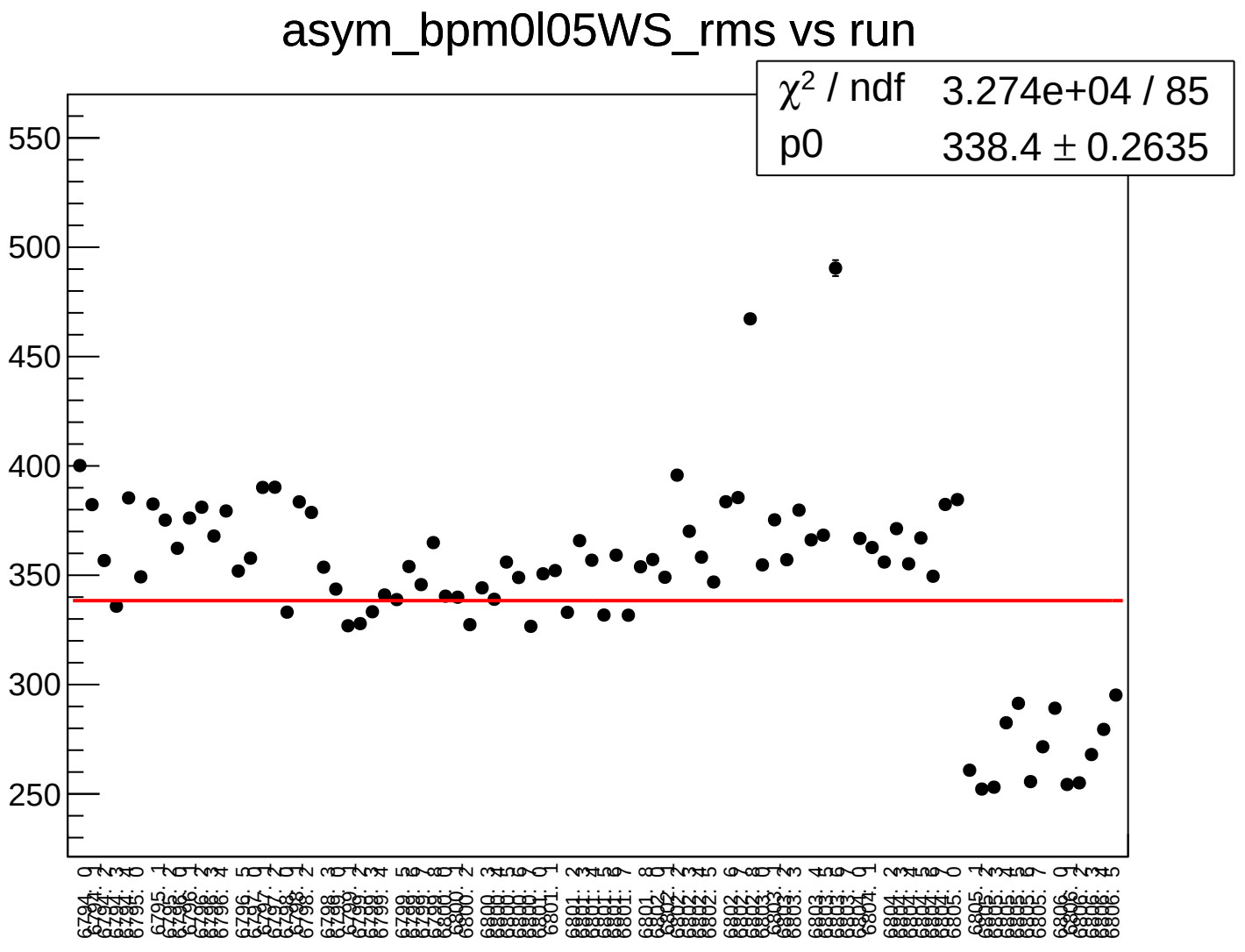

asym_bpm0l03WS_rms vs run
χ^2 / ndf 1.211e+05 / 85
p0 1549 ± 1.24
4000
3500
3000
2500
2000
1500
1000

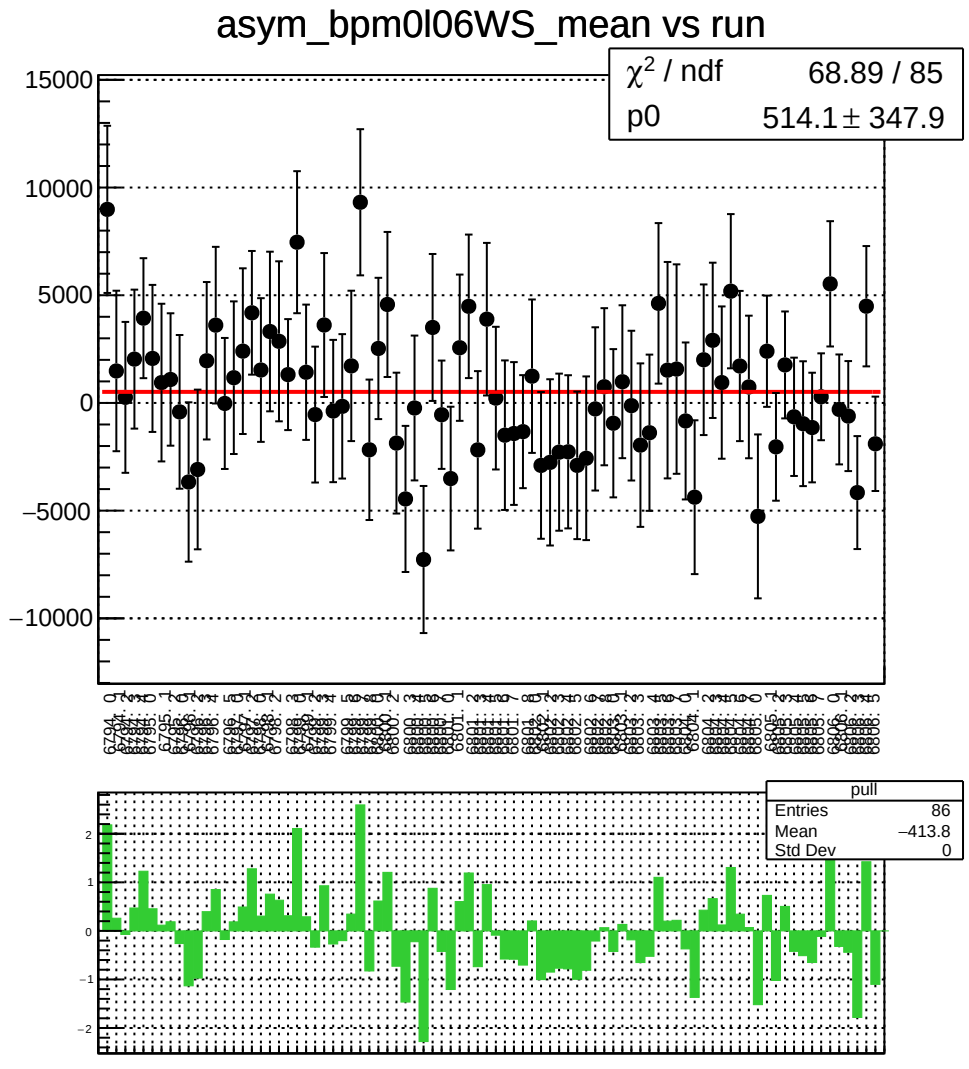

asym_bpm0l04WS_mean vs run
χ² / ndf 58.18 / 85
p0 688 ± 336.4
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −658.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.006312
Std Dev 0.8225
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

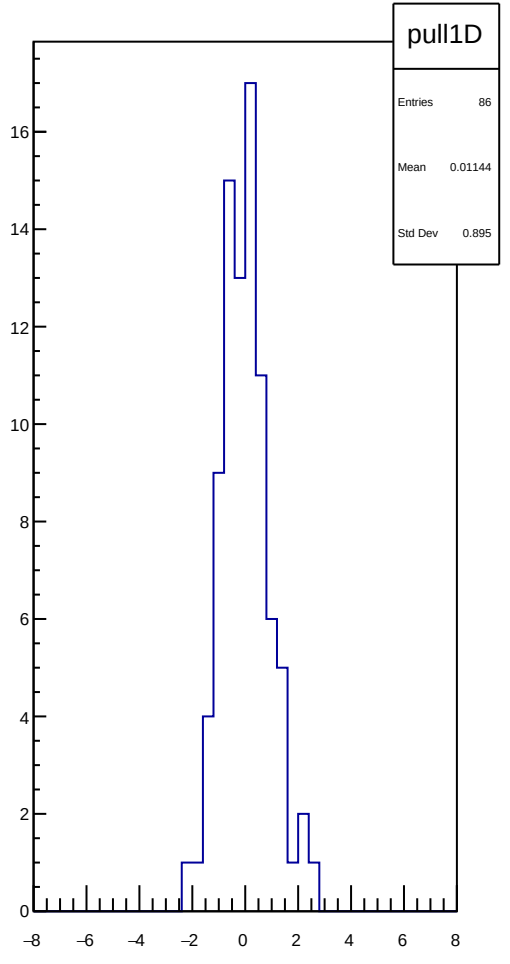

asym_bpm0l04WS_rms vs run
χ² / ndf 2.934e+04 / 85
p0 305.8 ± 0.2378
500
450
400
350
300
250

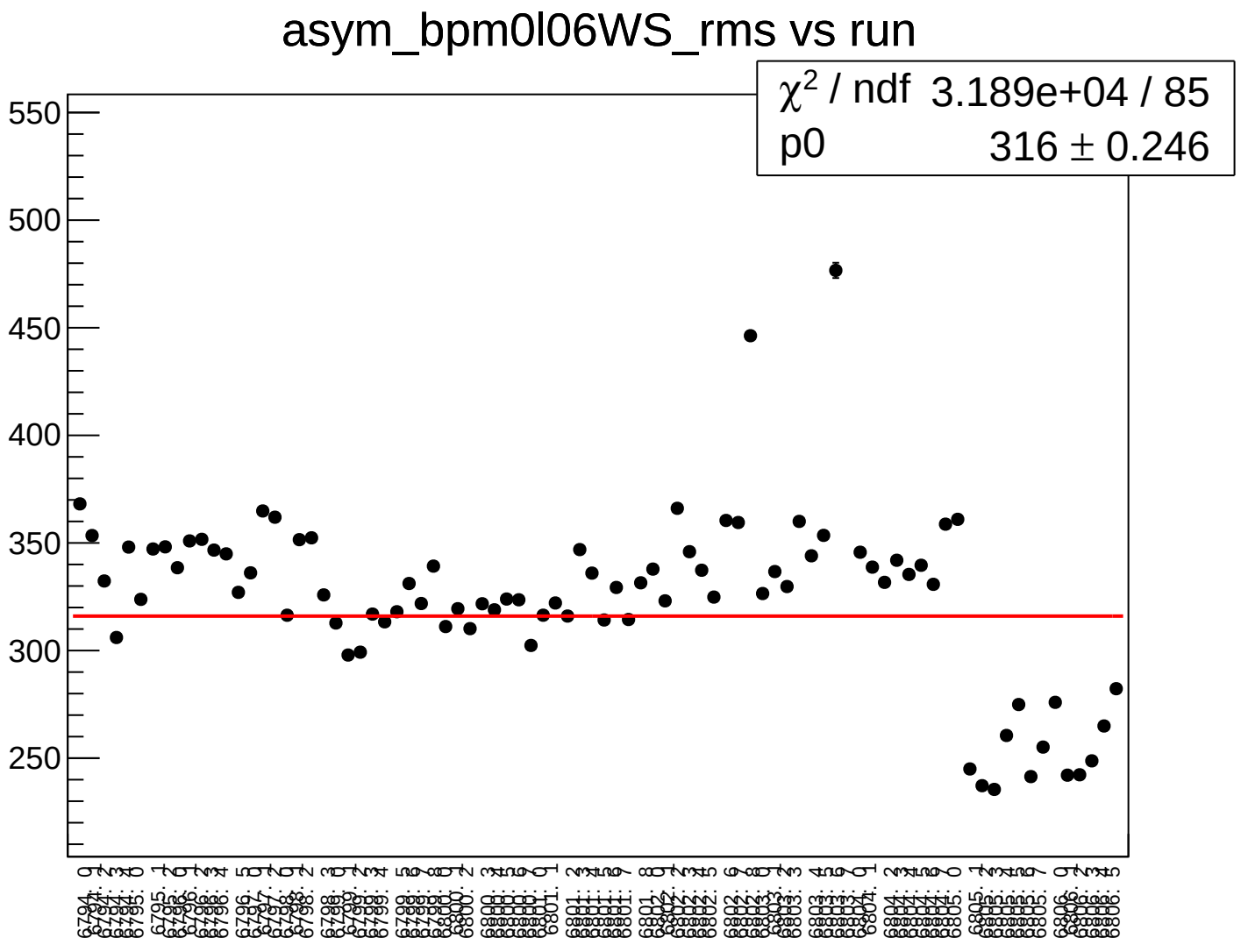

asym_bpm0l05WS_mean vs run
χ² / ndf 64.53 / 85
p0 744.6 ± 372.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1213
Std Dev 0
2
1
0
−1
−2

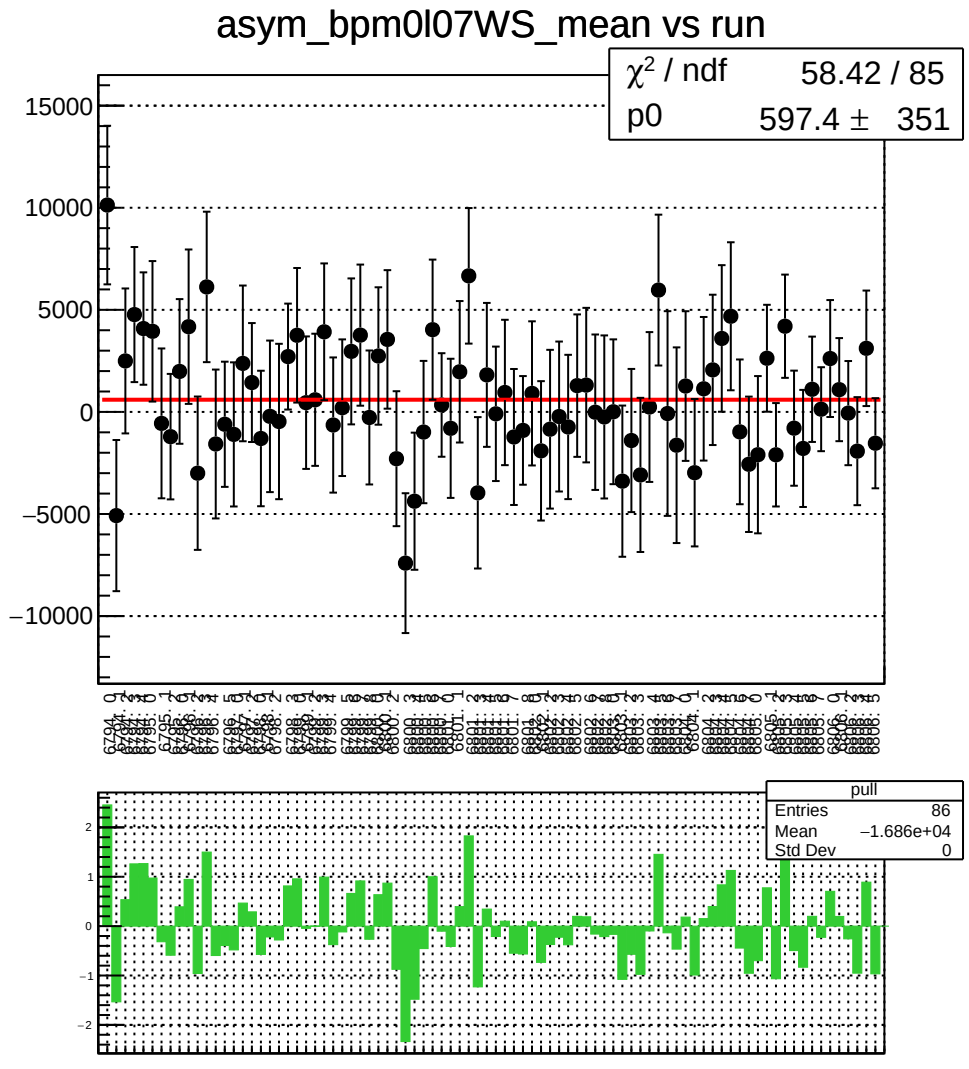

pull1D
Entries 86
Mean 0.003392
Std Dev 0.8662
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

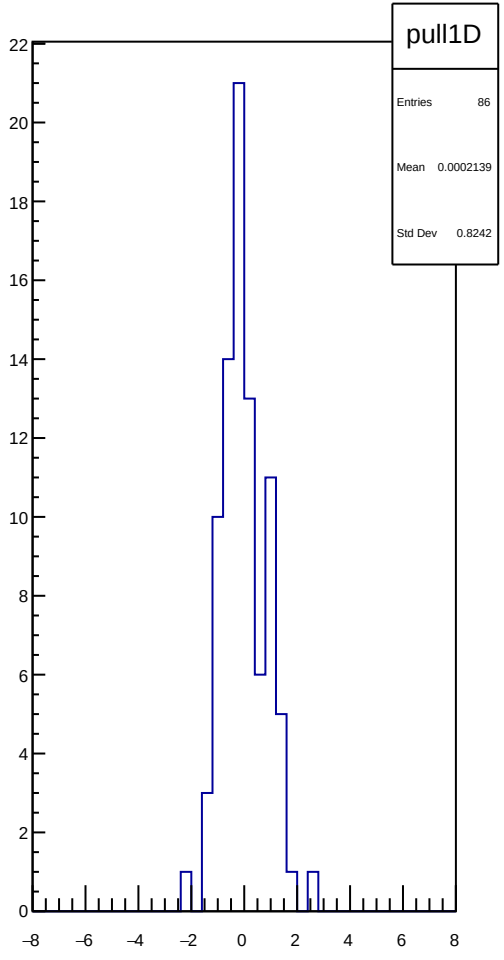

asym_bpm0l05WS_rms vs run
χ² / ndf 3.274e+04 / 85
p0 338.4 ± 0.2635
550
500
450
400
350
300
250

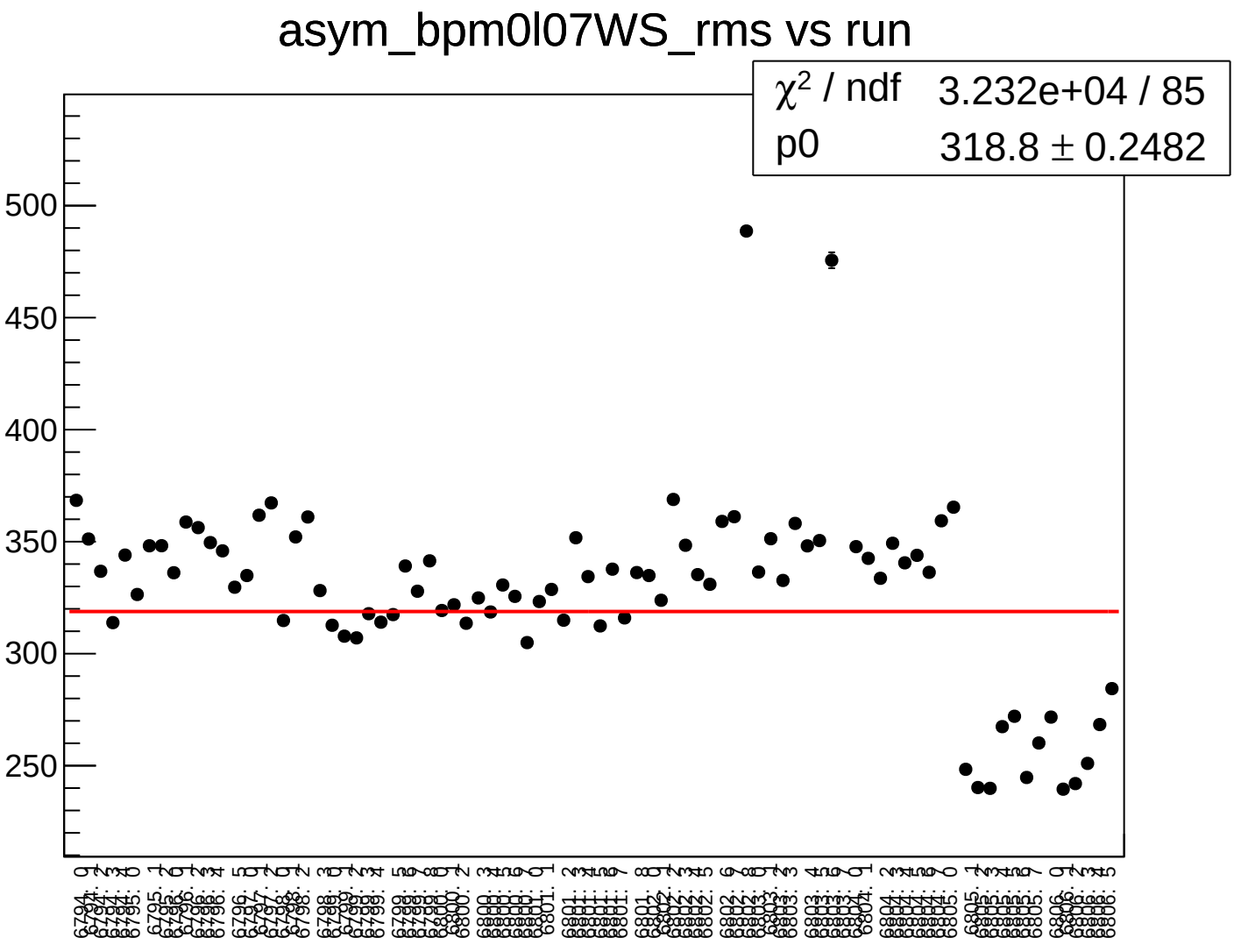

asym_bpm0l06WS_mean vs run
χ² / ndf 68.89 / 85
p0 514.1 ± 347.9
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −413.8
Std Dev 0
2
1
0
−1
−2

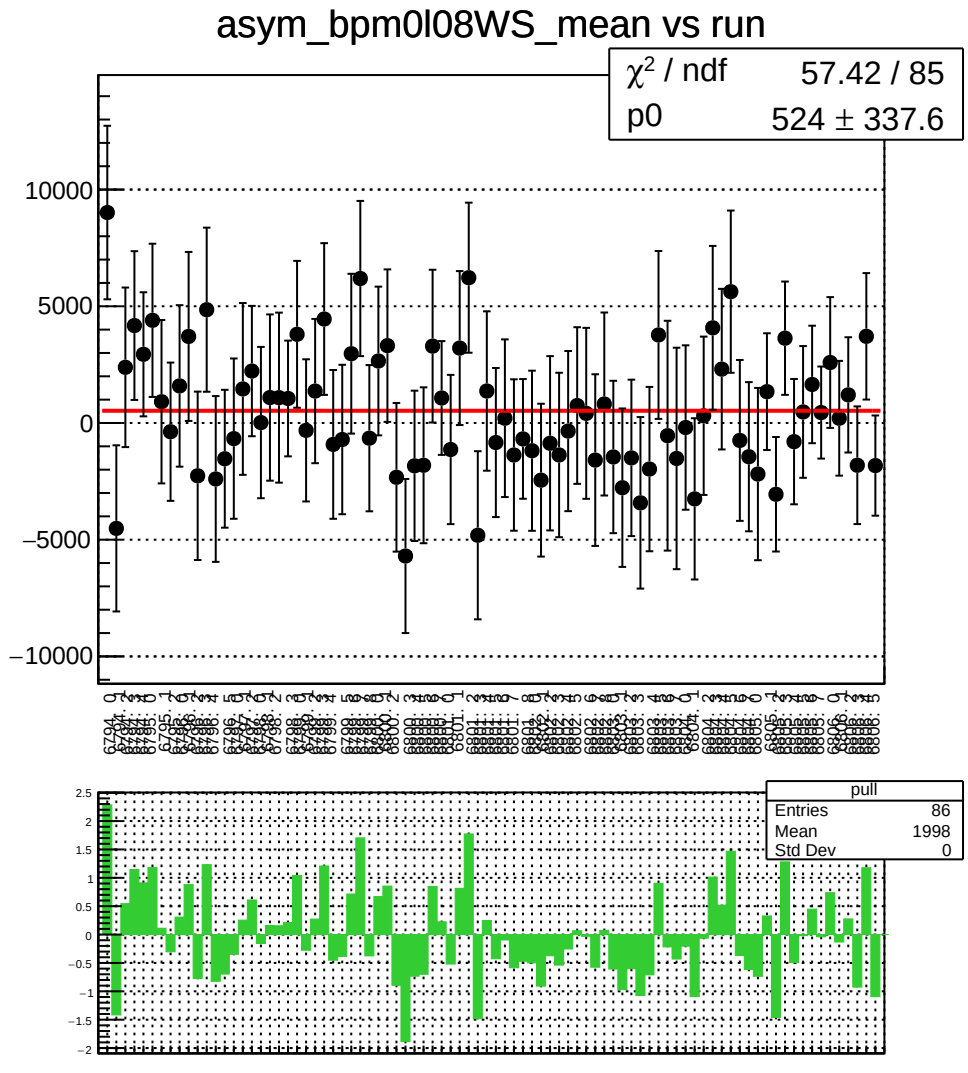

pull1D
Entries 86
Mean 0.01144
Std Dev 0.895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

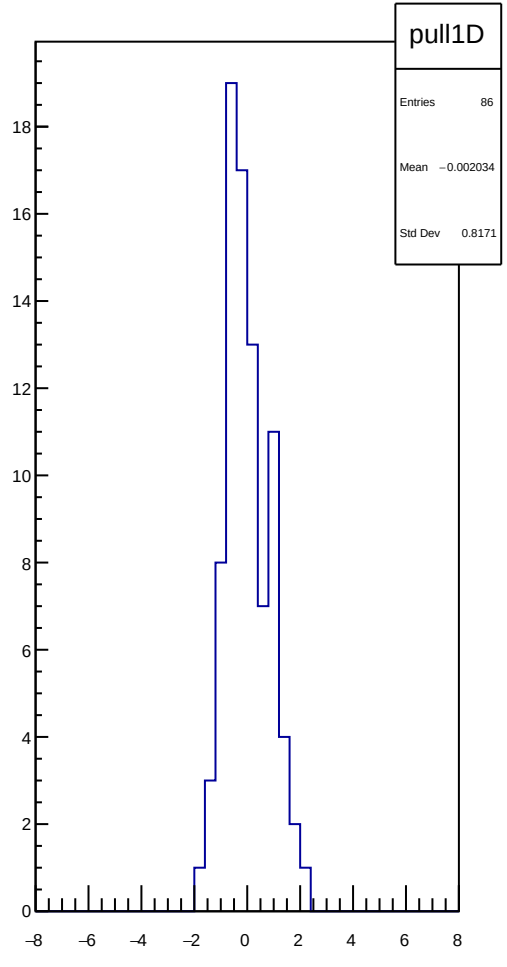

asym_bpm0l06WS_rms vs run
χ^2 / ndf 3.189e+04 / 85
p0 316 ± 0.246
550
500
450
400
350
300
250

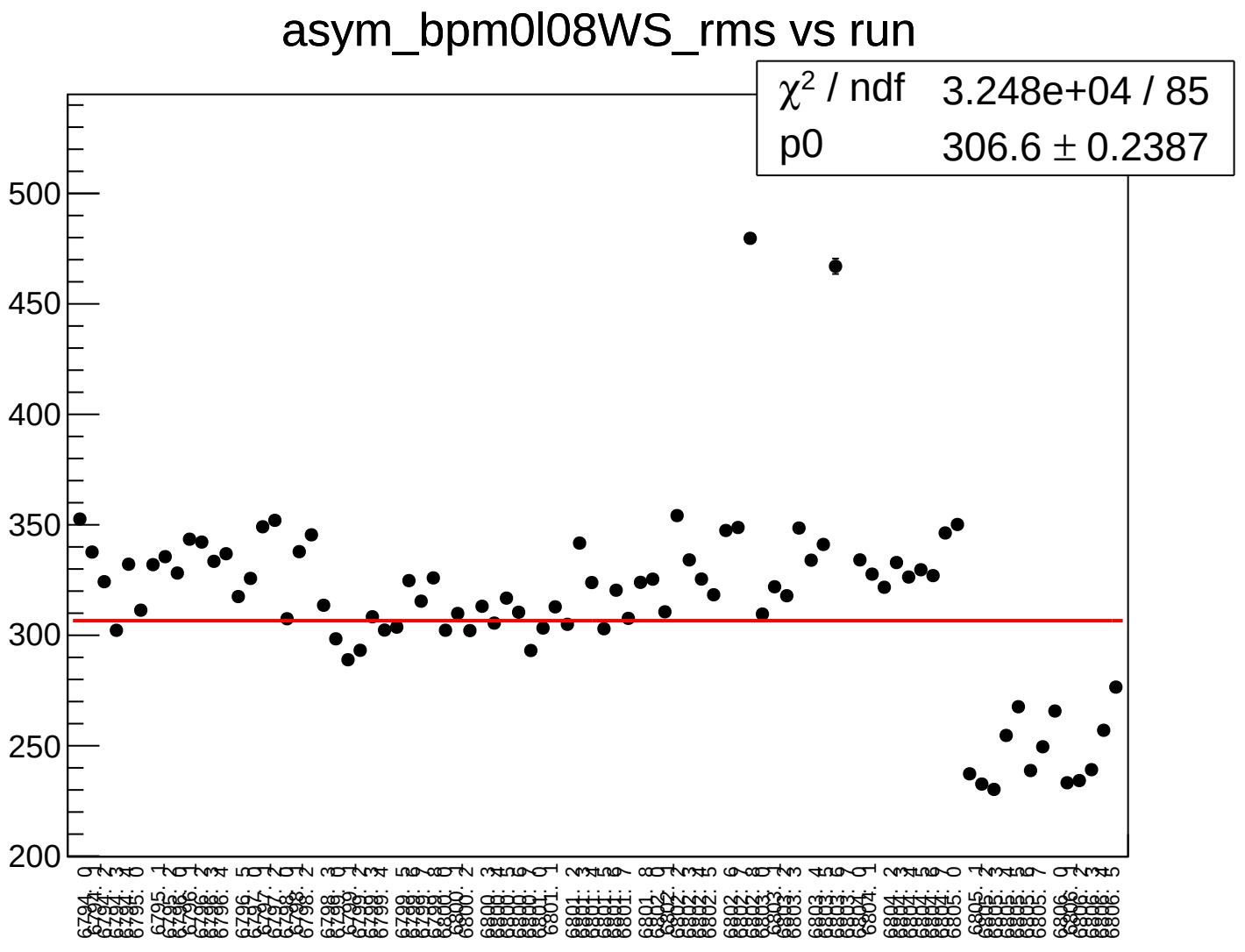

asym_bpm0l07WS_mean vs run
χ² / ndf 58.42 / 85
p0 597.4 ± 351
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −1.686e+04
Std Dev 0
2
1
0
−1
−2

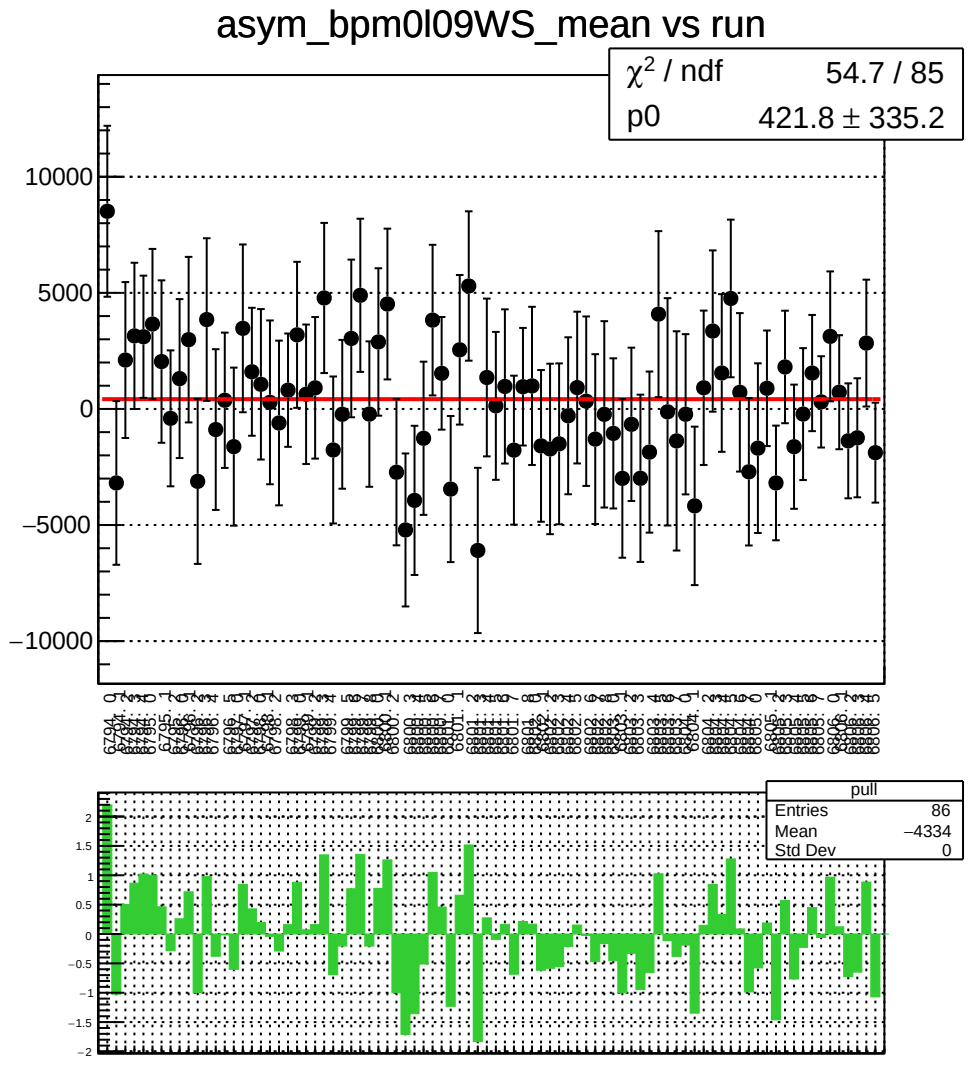

pull1D
Entries 86
Mean 0.0002139
Std Dev 0.8242
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

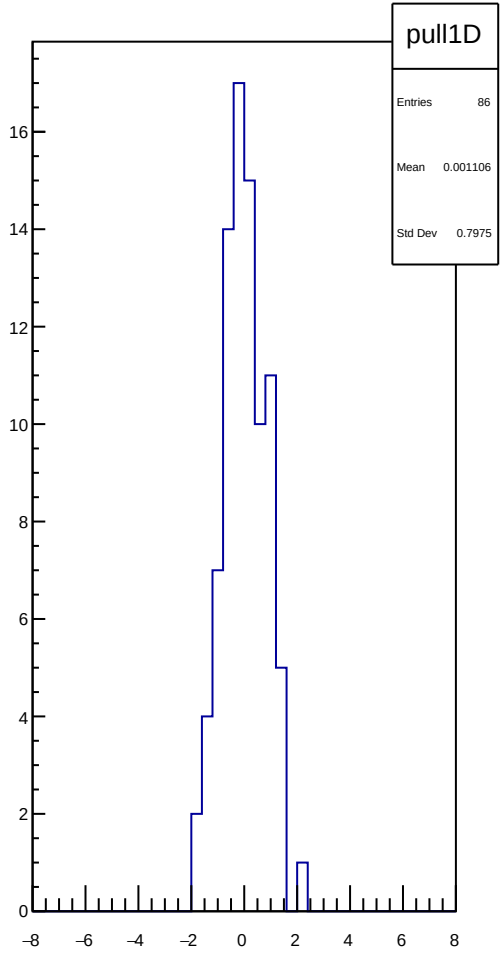

asym_bpm0l07WS_rms vs run
χ² / ndf 3.232e+04 / 85
p0 318.8 ± 0.2482
500
450
400
350
300
250

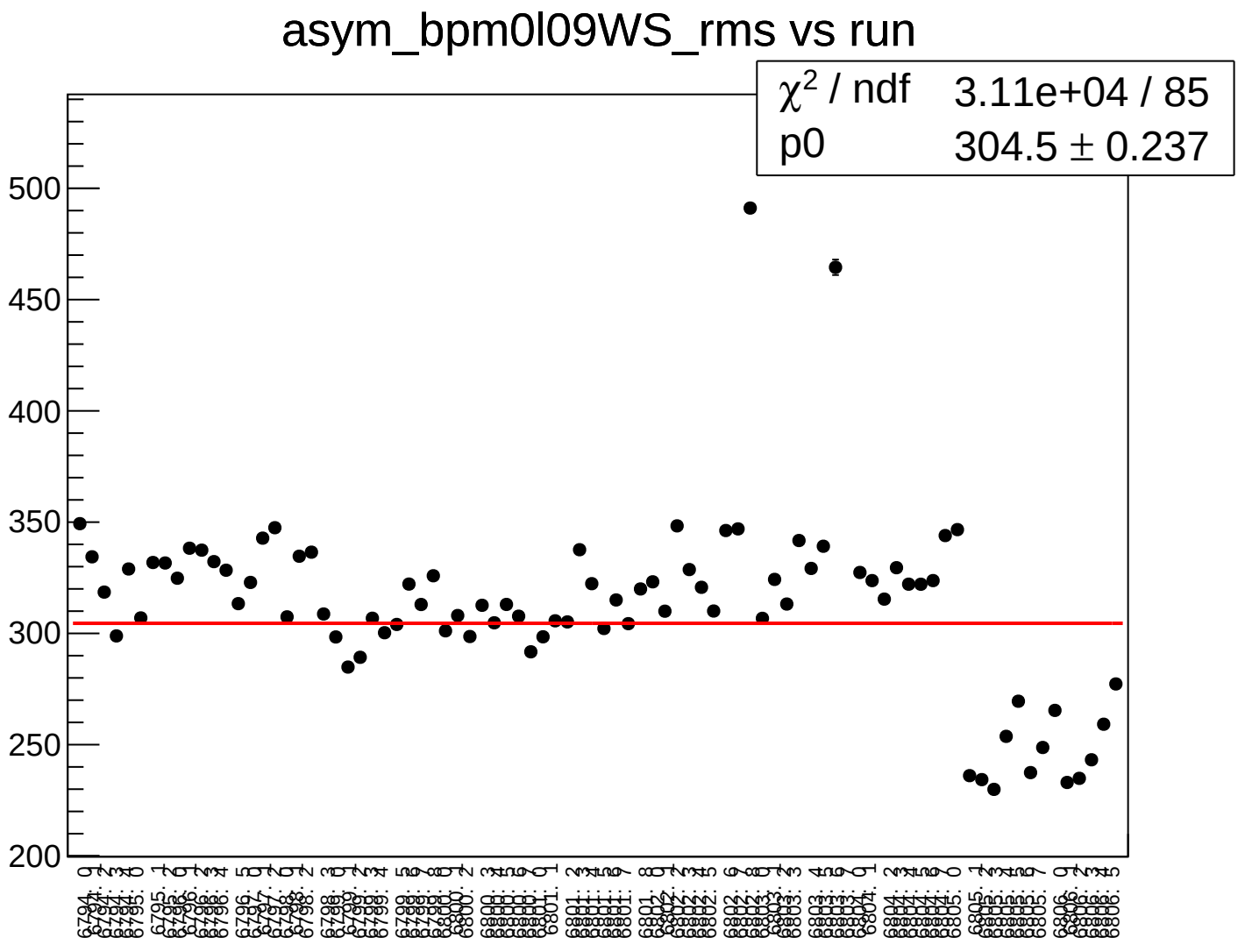

asym_bpm0l08WS_mean vs run
χ² / ndf 57.42 / 85
p0 524 ± 337.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 1998
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

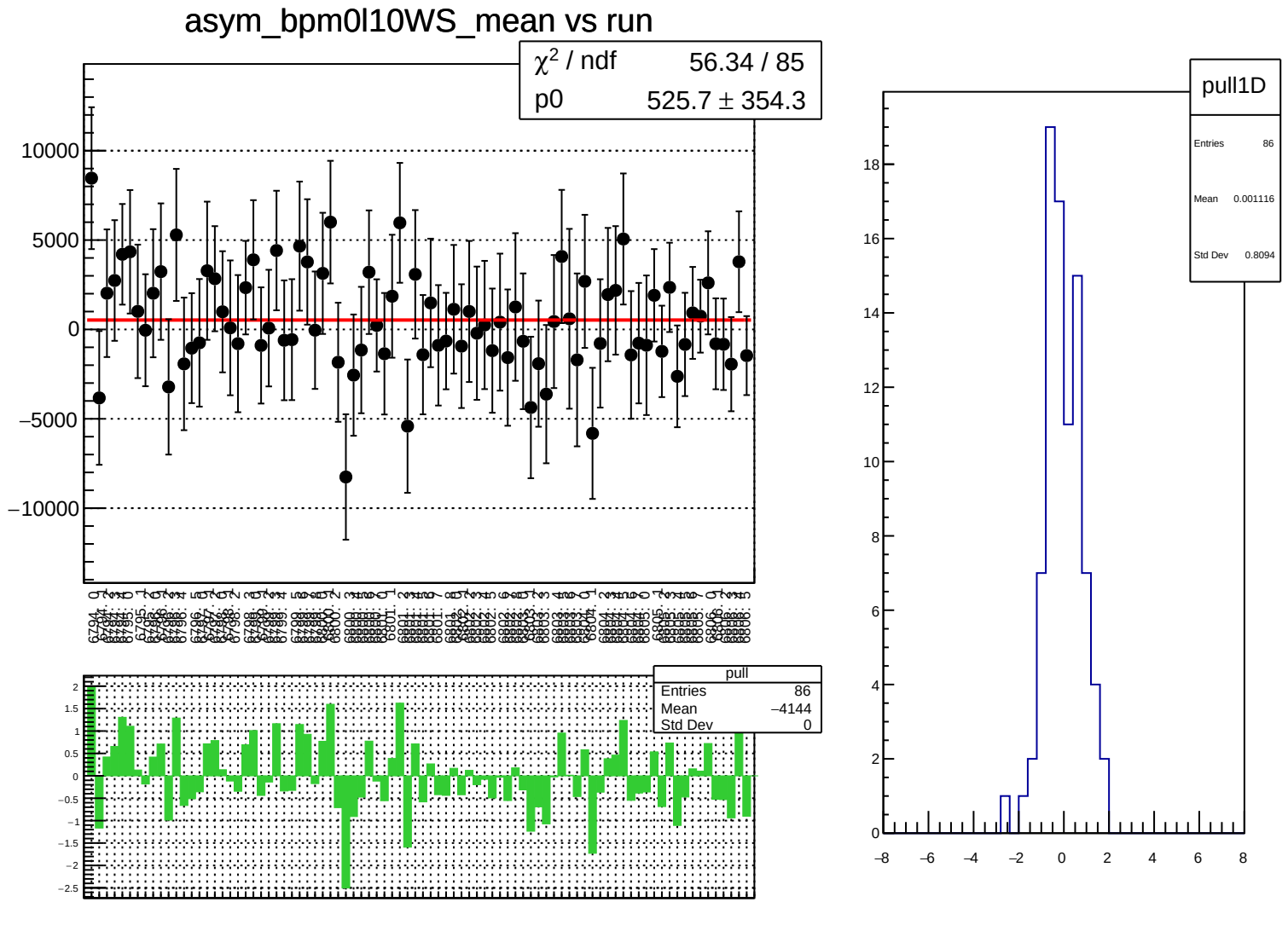

pull1D
Entries 86
Mean −0.002034
Std Dev 0.8171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

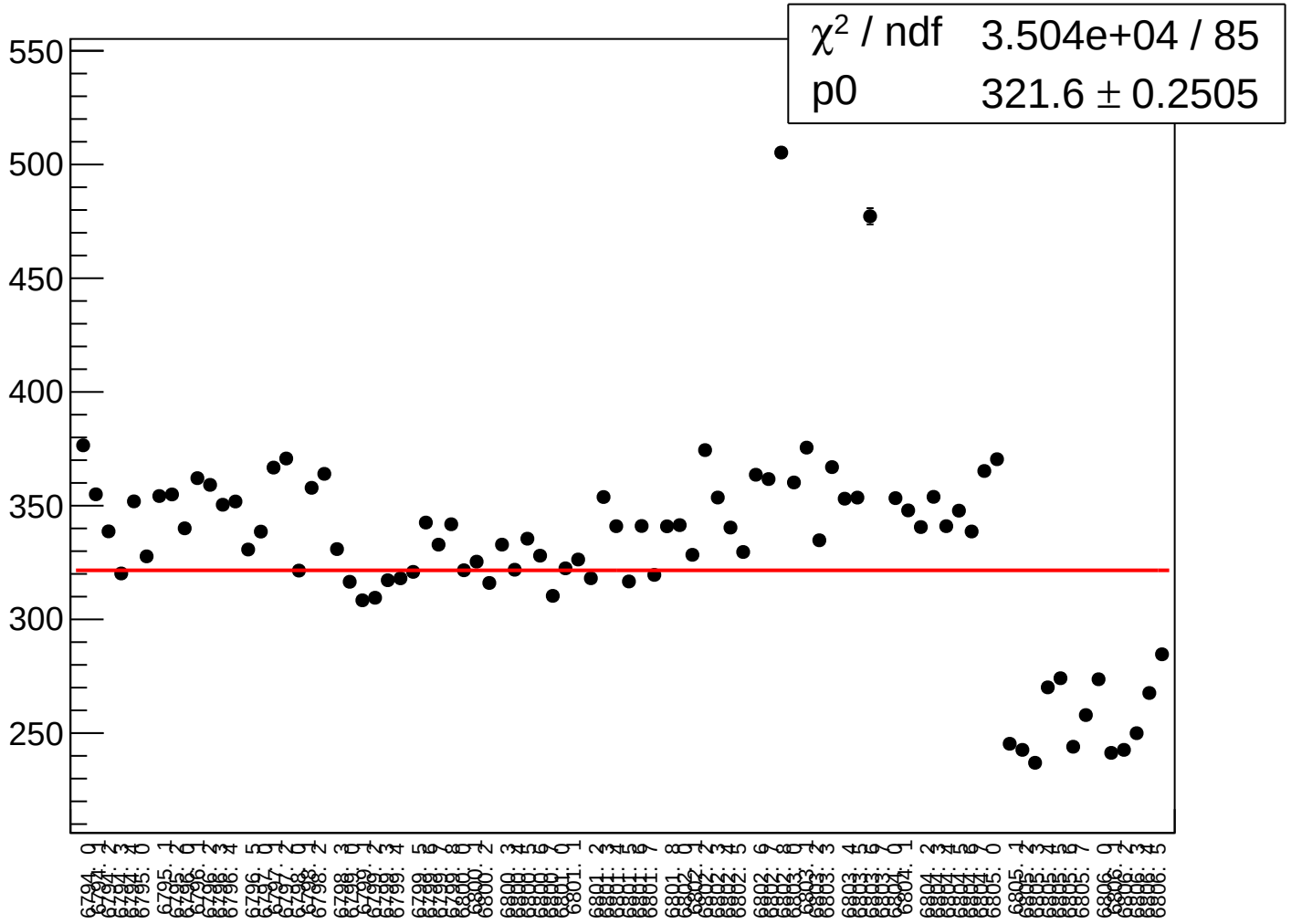

asym_bpm0l08WS_rms vs run
χ² / ndf 3.248e+04 / 85
p0 306.6 ± 0.2387
500
450
400
350
300
250
200

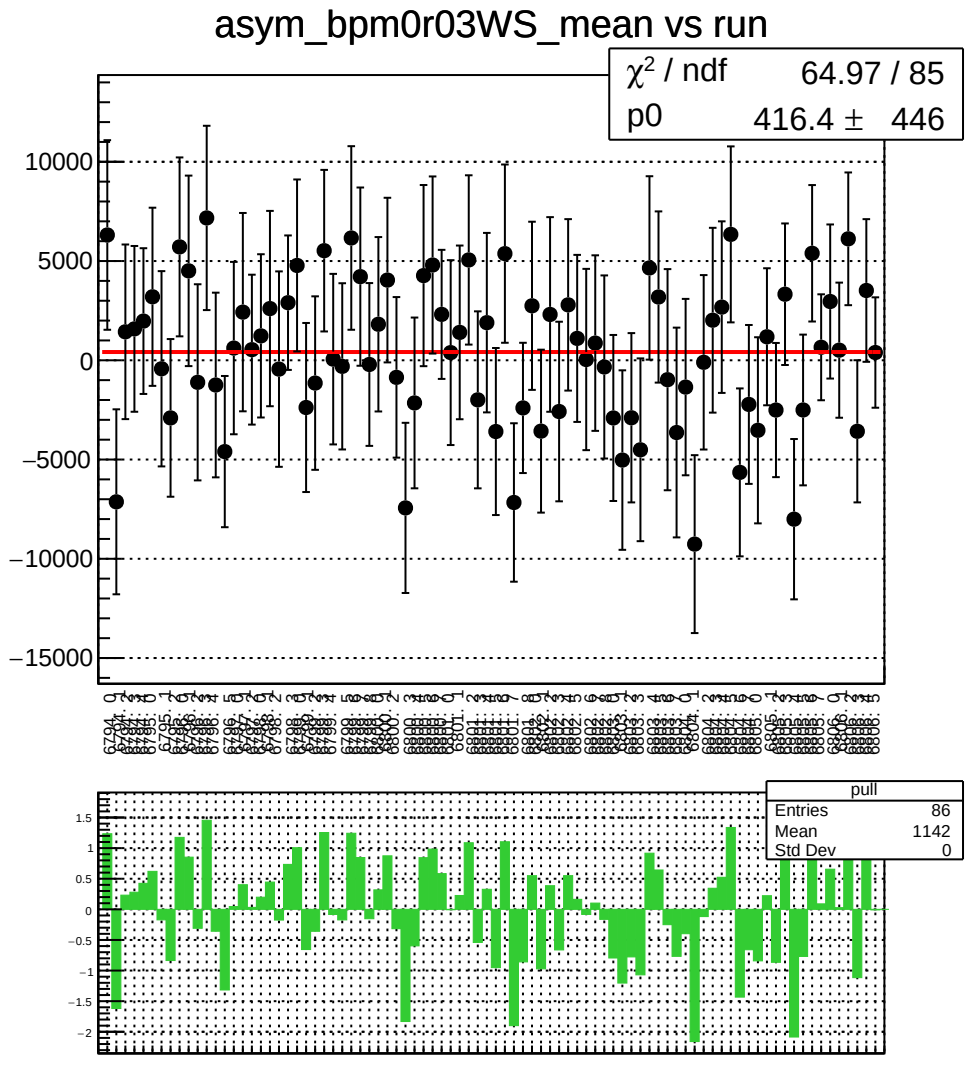

asym_bpm0l09WS_mean vs run
χ² / ndf 54.7 / 85
p0 421.8 ± 335.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −4334
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

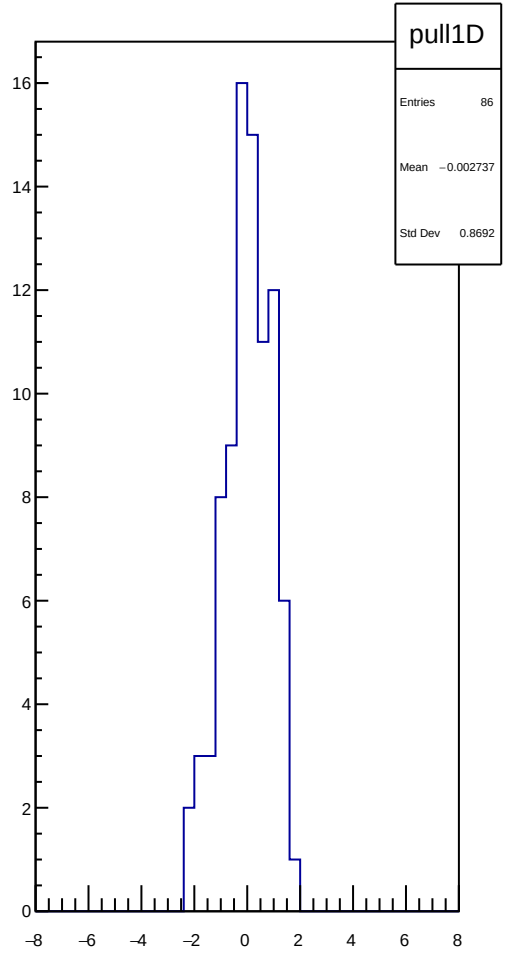

pull1D
Entries 86
Mean 0.001106
Std Dev 0.7975
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

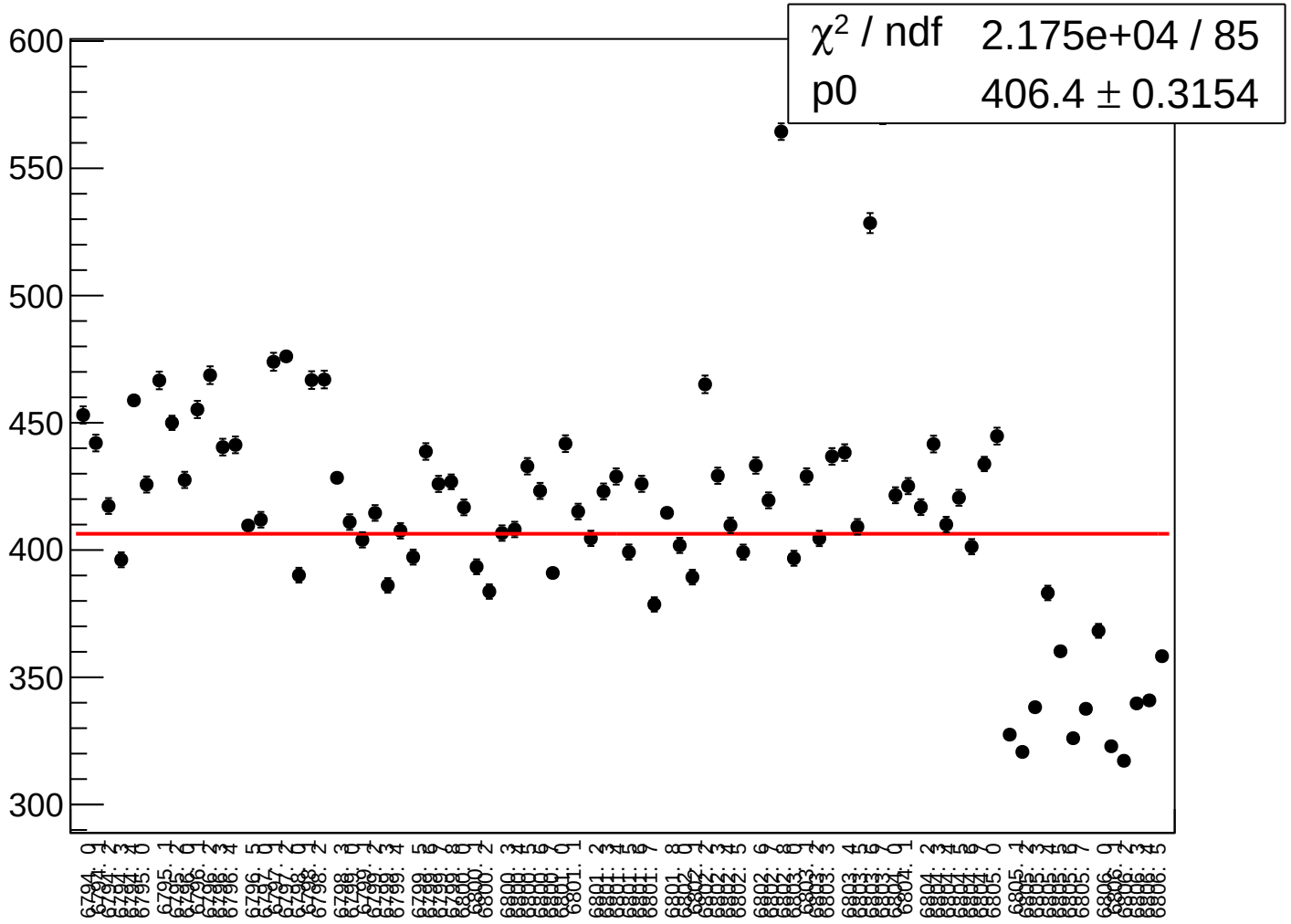

asym_bpm0l09WS_rms vs run
χ² / ndf 3.11e+04 / 85
p0 304.5 ± 0.237
500
450
400
350
300
250
200

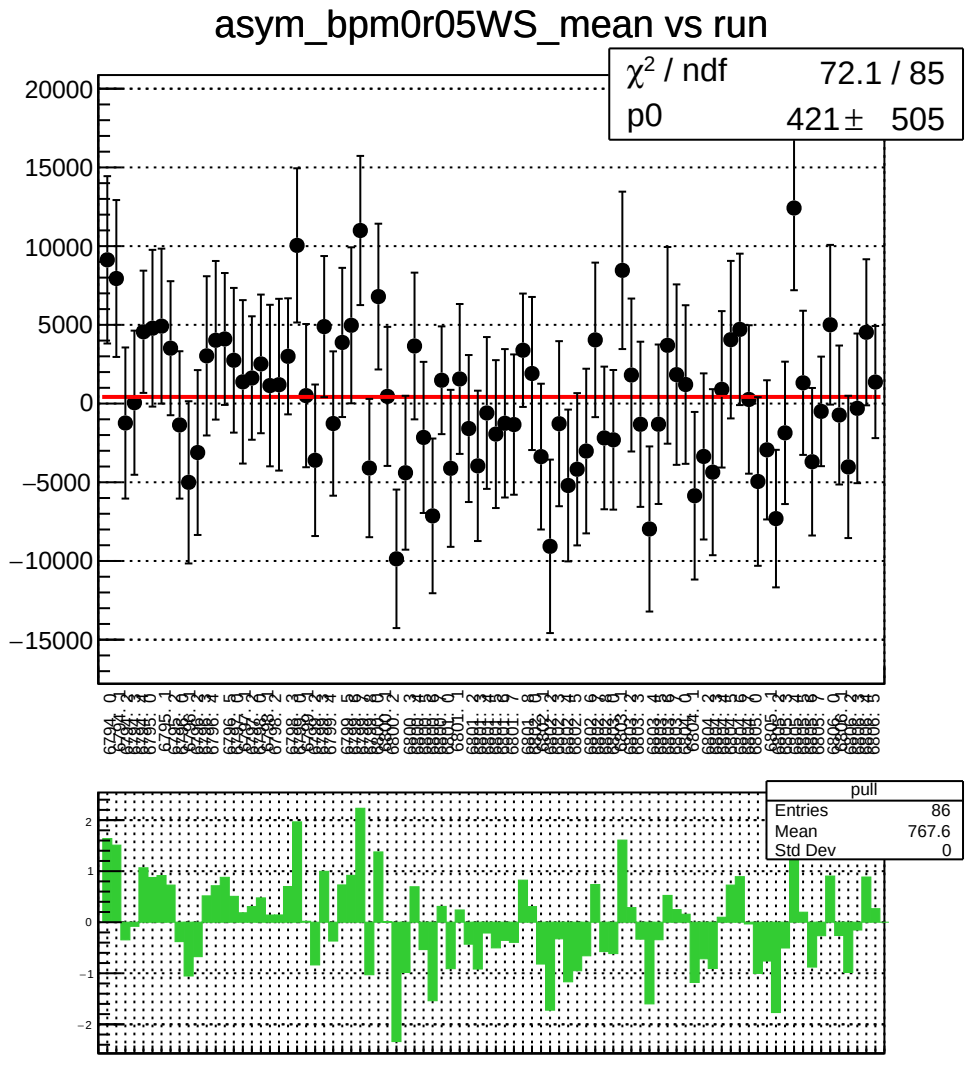

asym_bpm0l10WS_mean vs run
χ² / ndf 56.34 / 85
p0 525.7 ± 354.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −4144
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 86
Mean 0.001116
Std Dev 0.8094
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

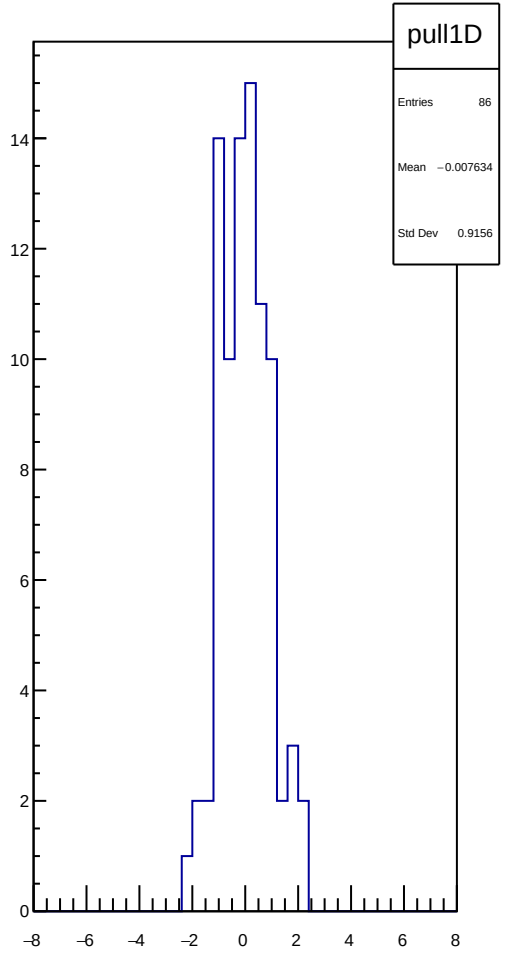

asym_bpm0l10WS_rms vs run
χ² / ndf 3.504e+04 / 85
p0 321.6 ± 0.2505
550
500
450
400
350
300
250

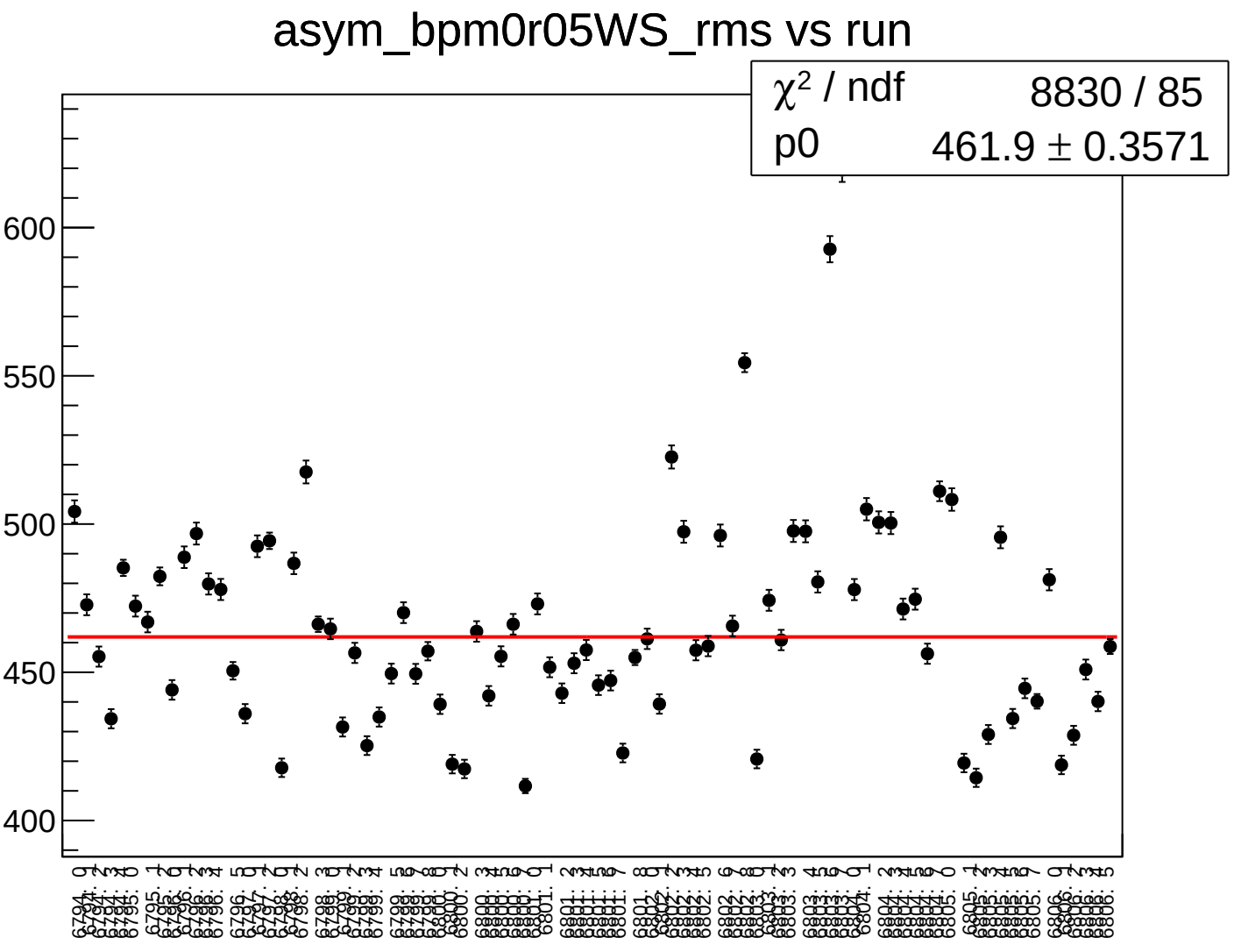

asym_bpm0r03WS_mean vs run
χ² / ndf 64.97 / 85
p0 416.4 ± 446
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 1142
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

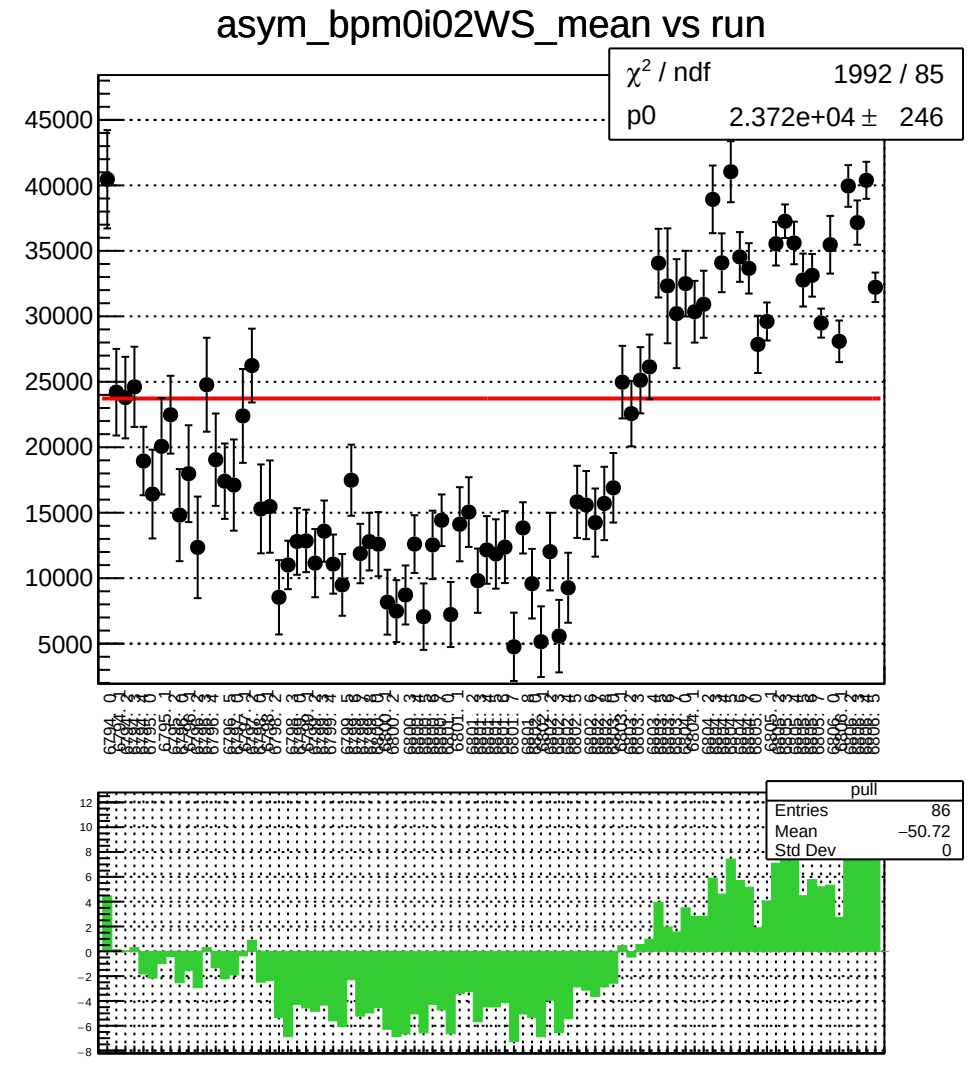

pull1D
Entries 86
Mean −0.002737
Std Dev 0.8692
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

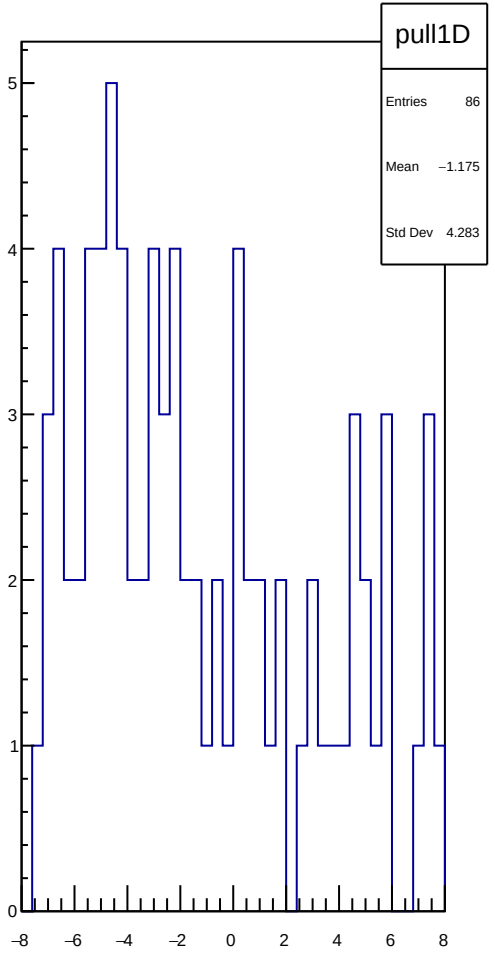

asym_bpm0r03WS_rms vs run
χ^2 / ndf 2.175e+04 / 85
p0 406.4 ± 0.3154
600
550
500
450
400
350
300

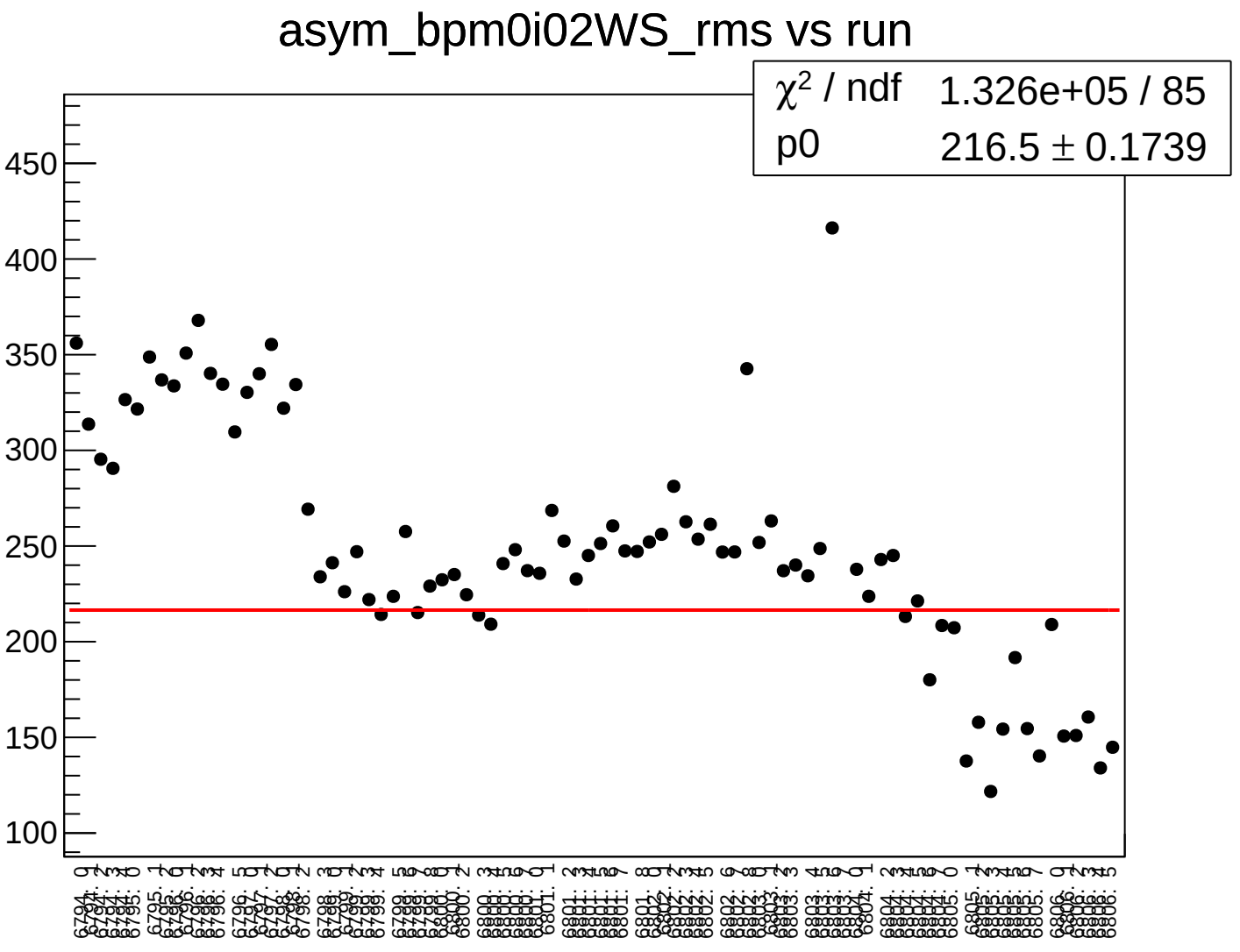

asym_bpm0r05WS_mean vs run
χ² / ndf 72.1 / 85
p0 421 ± 505
pull
Entries 86
Mean 767.6
Std Dev 0

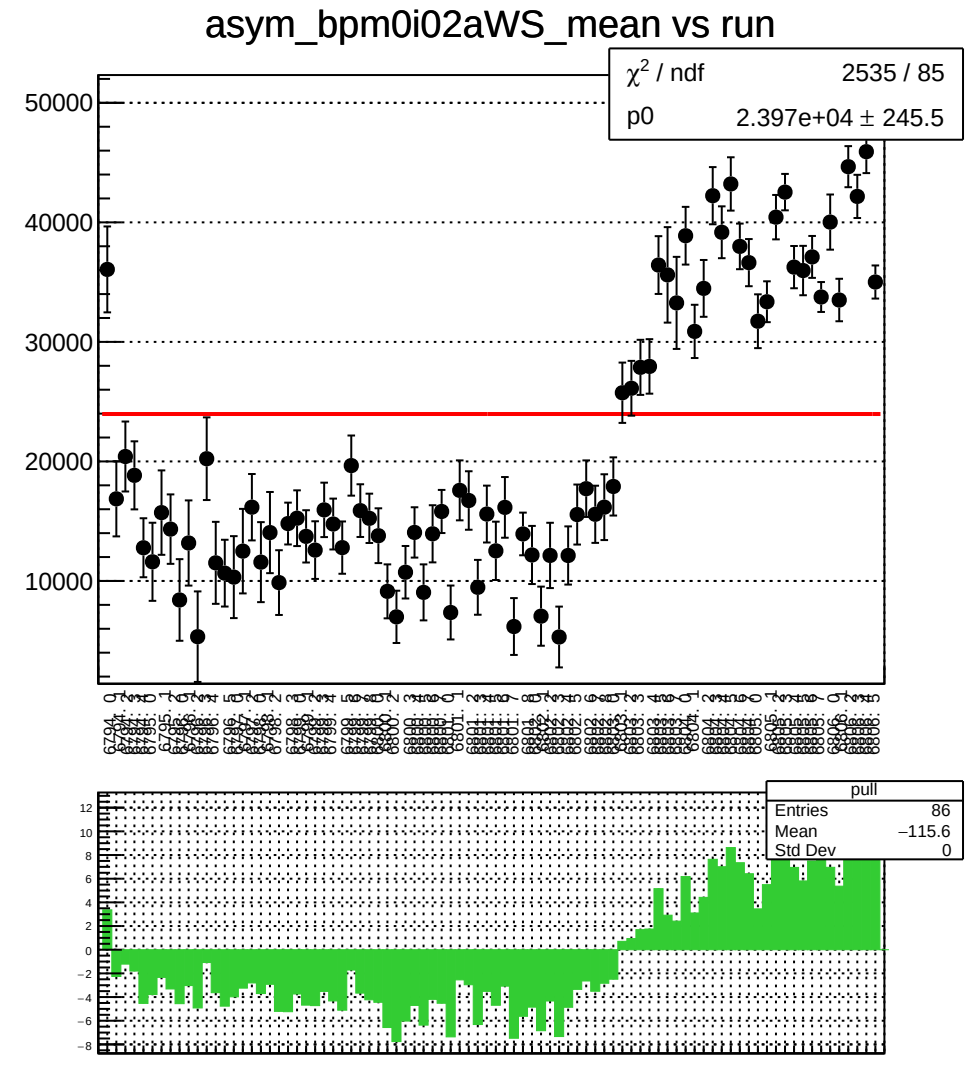

pull1D
Entries 86
Mean −0.007634
Std Dev 0.9156

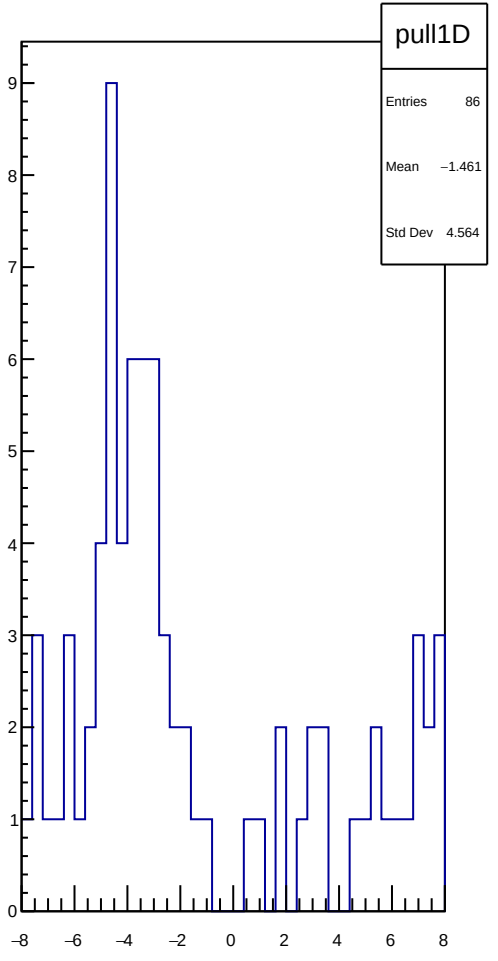

asym_bpm0r05WS_rms vs run
χ² / ndf 8830 / 85
p0 461.9 ± 0.3571
600
550
500
450
400

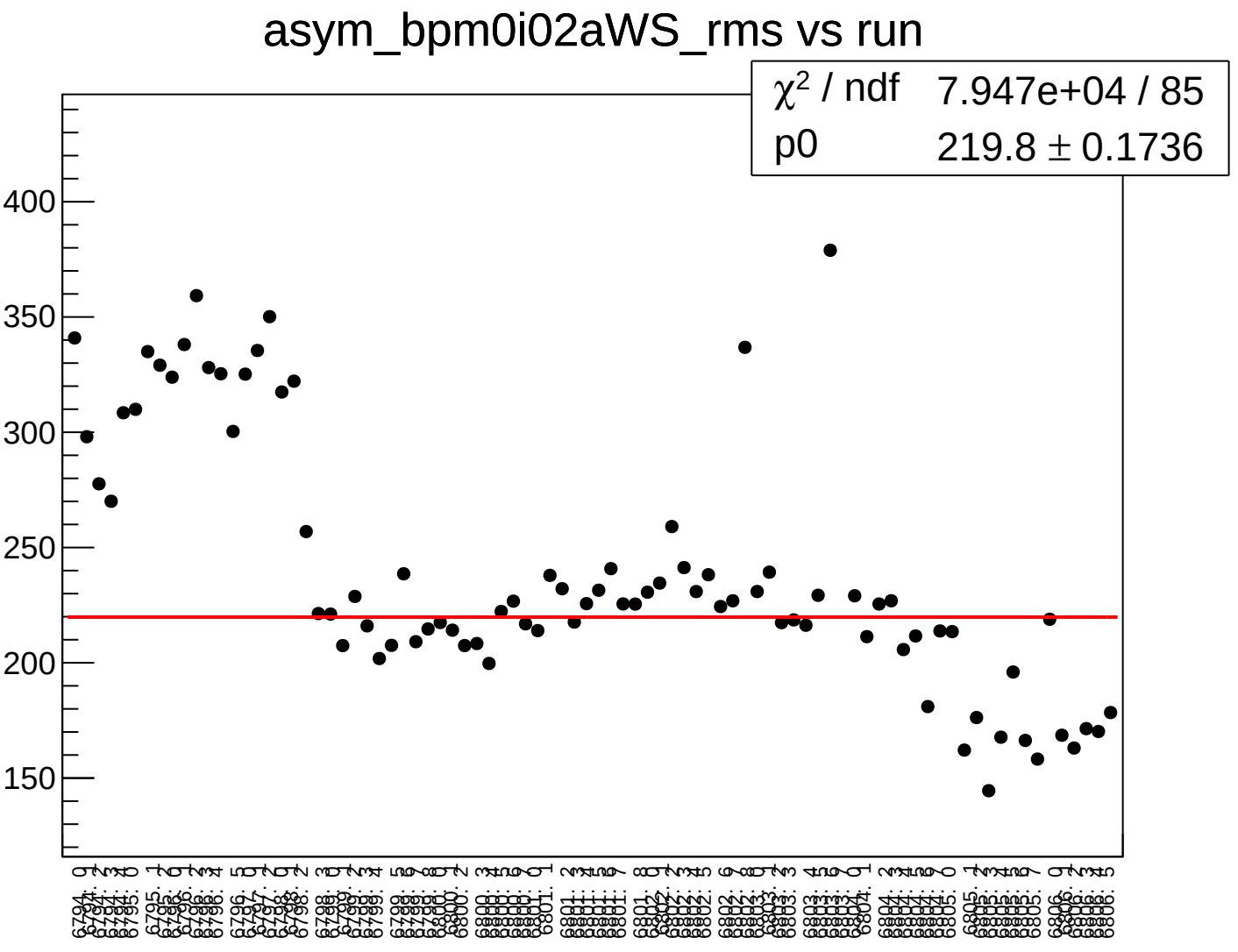

asym_bpm0i02WS_mean vs run
χ² / ndf 1992 / 85
p0 2.372e+04 ± 246
pull
Entries 86
Mean −50.72
Std Dev 0

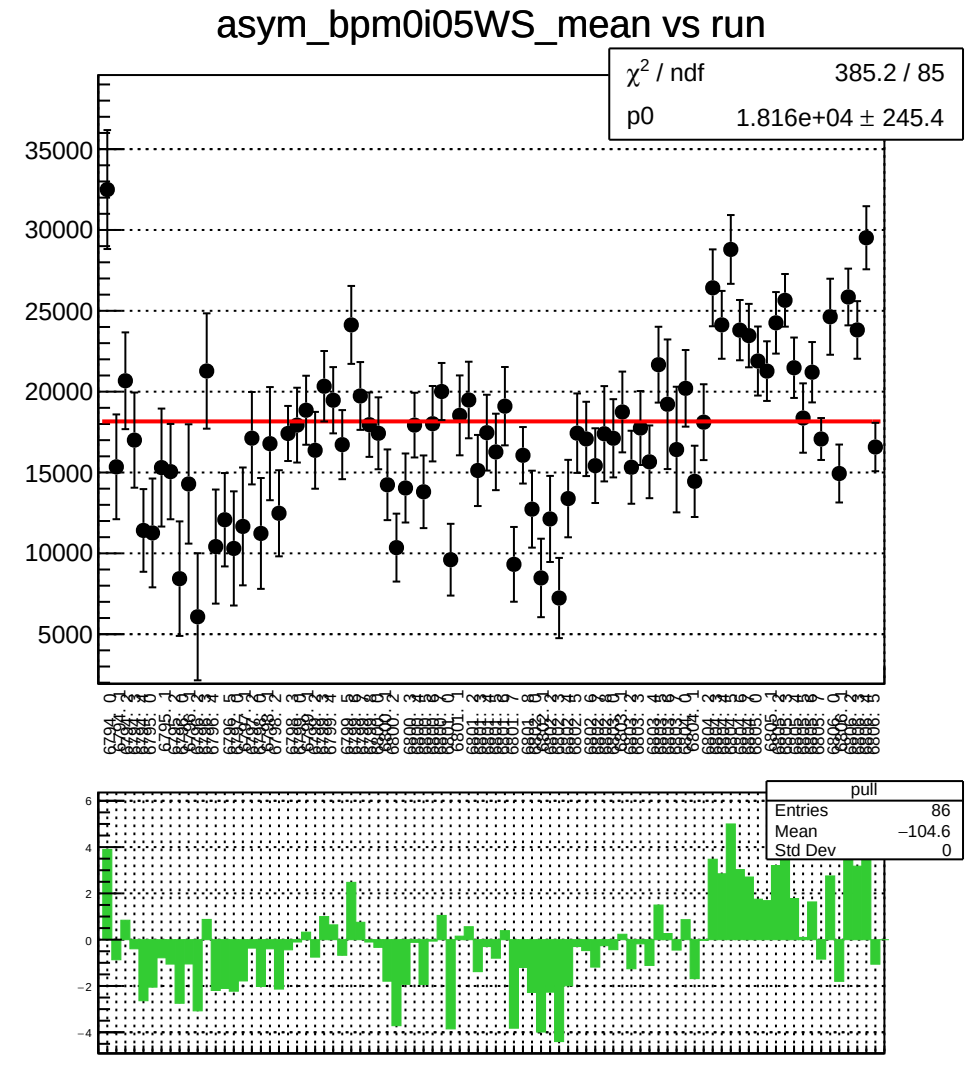

pull1D
Entries 86
Mean −1.175
Std Dev 4.283

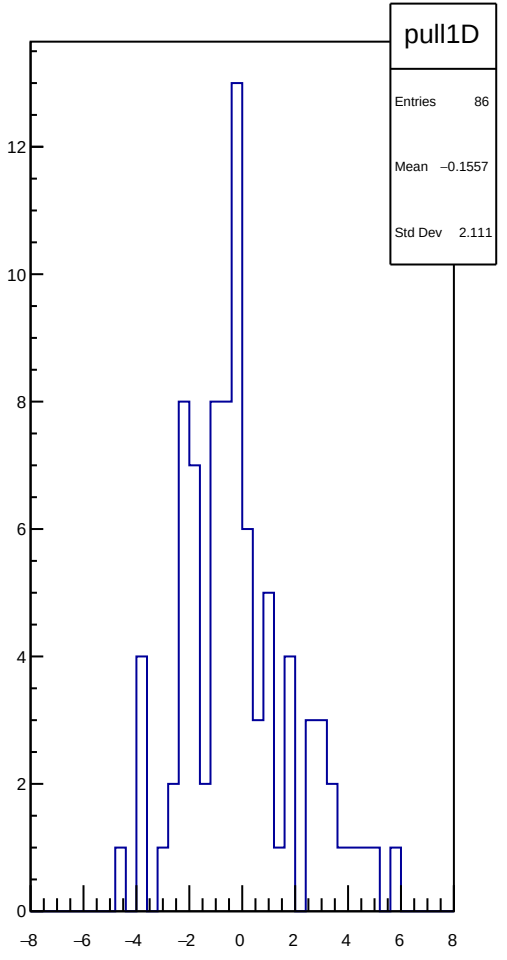

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1.326e+05 / 85
p0 216.5 ± 0.1739
450
400
350
300
250
200
150
100

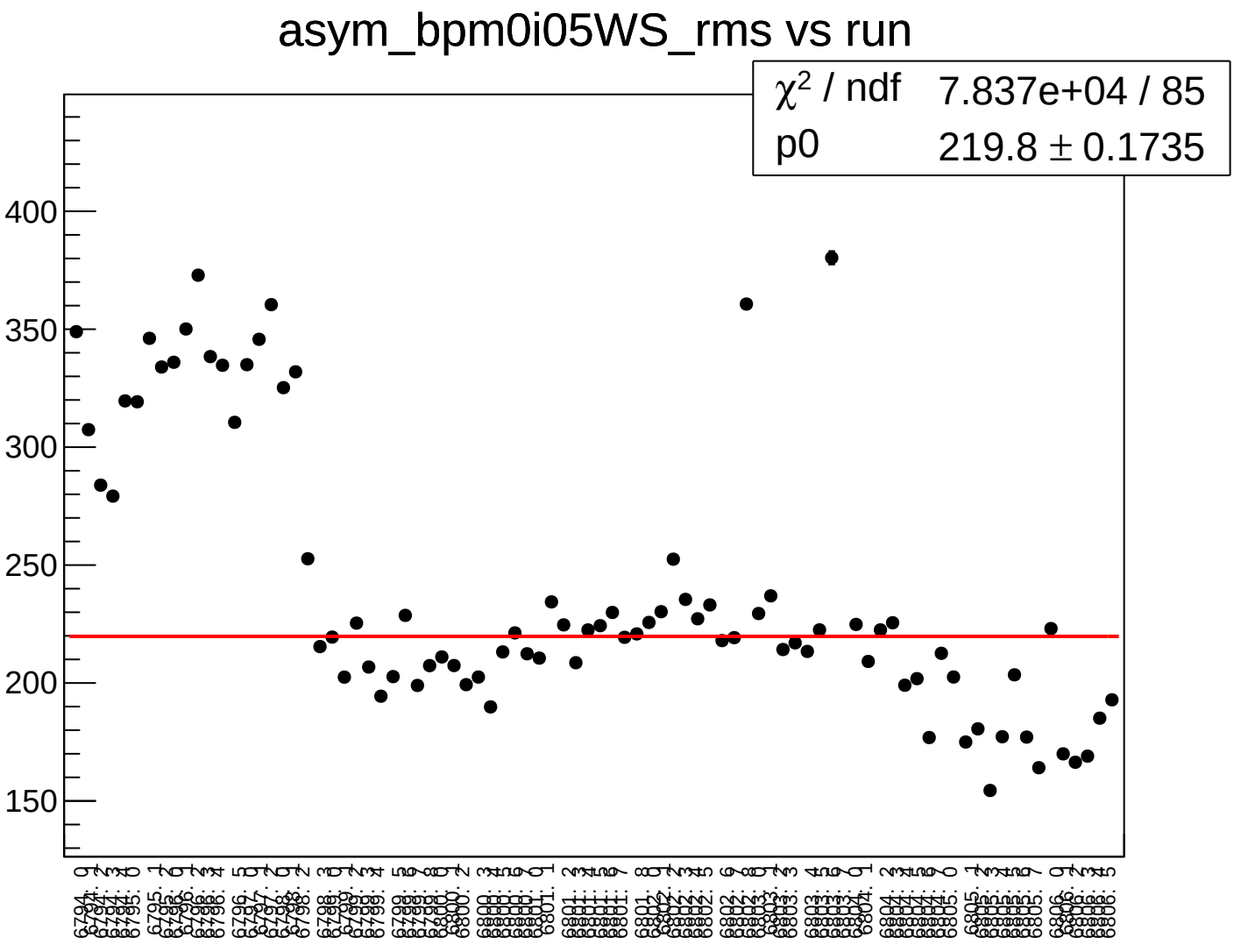

asym_bpm0i02aWS_mean vs run
χ² / ndf 2535 / 85
p0 2.397e+04 ± 245.5
50000
40000
30000
20000
10000
pull
Entries 86
Mean −115.6
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6
−8

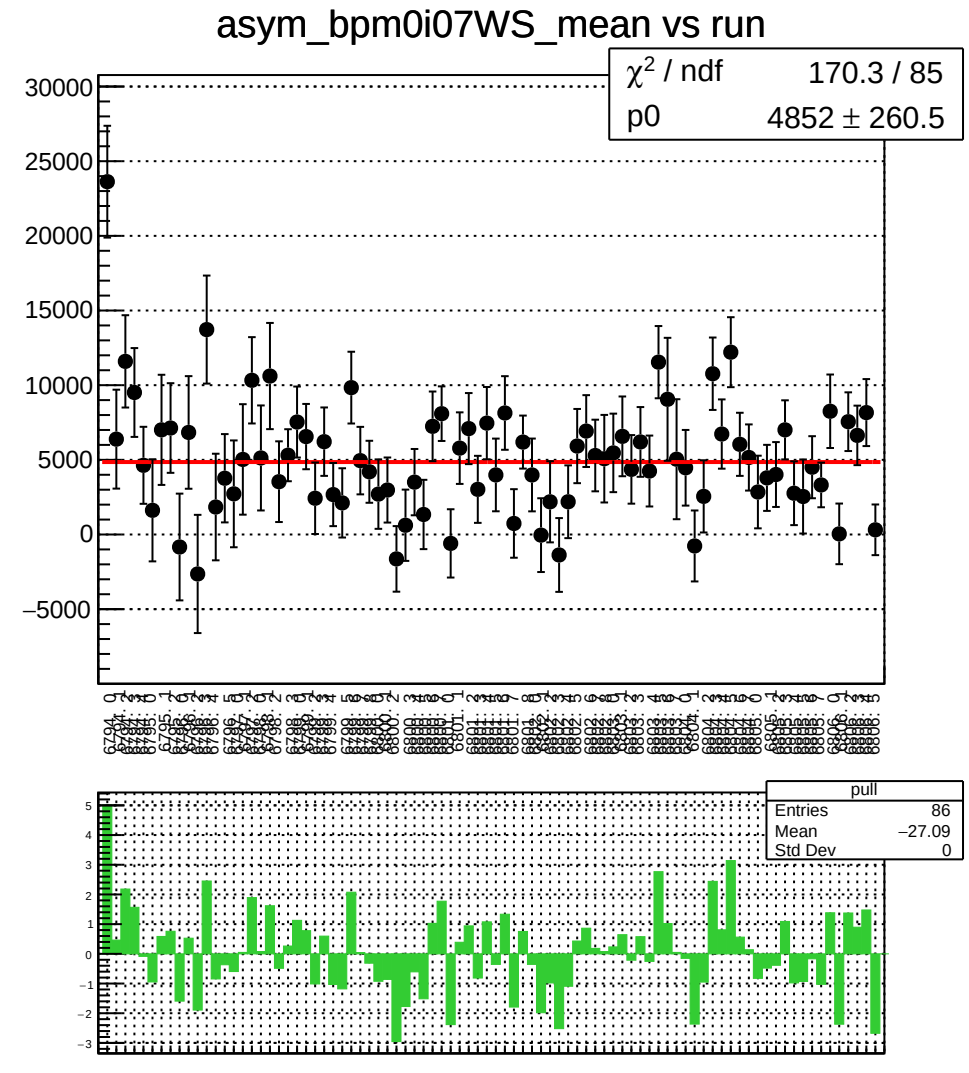

pull1D
Entries 86
Mean −1.461
Std Dev 4.564
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

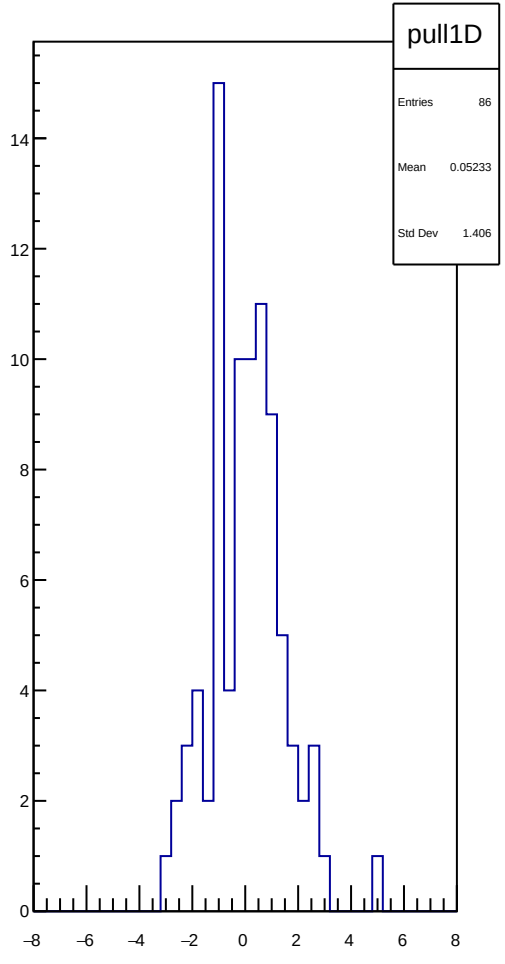

asym_bpm0i02aWS_rms vs run
χ² / ndf 7.947e+04 / 85
p0 219.8 ± 0.1736
400
350
300
250
200
150

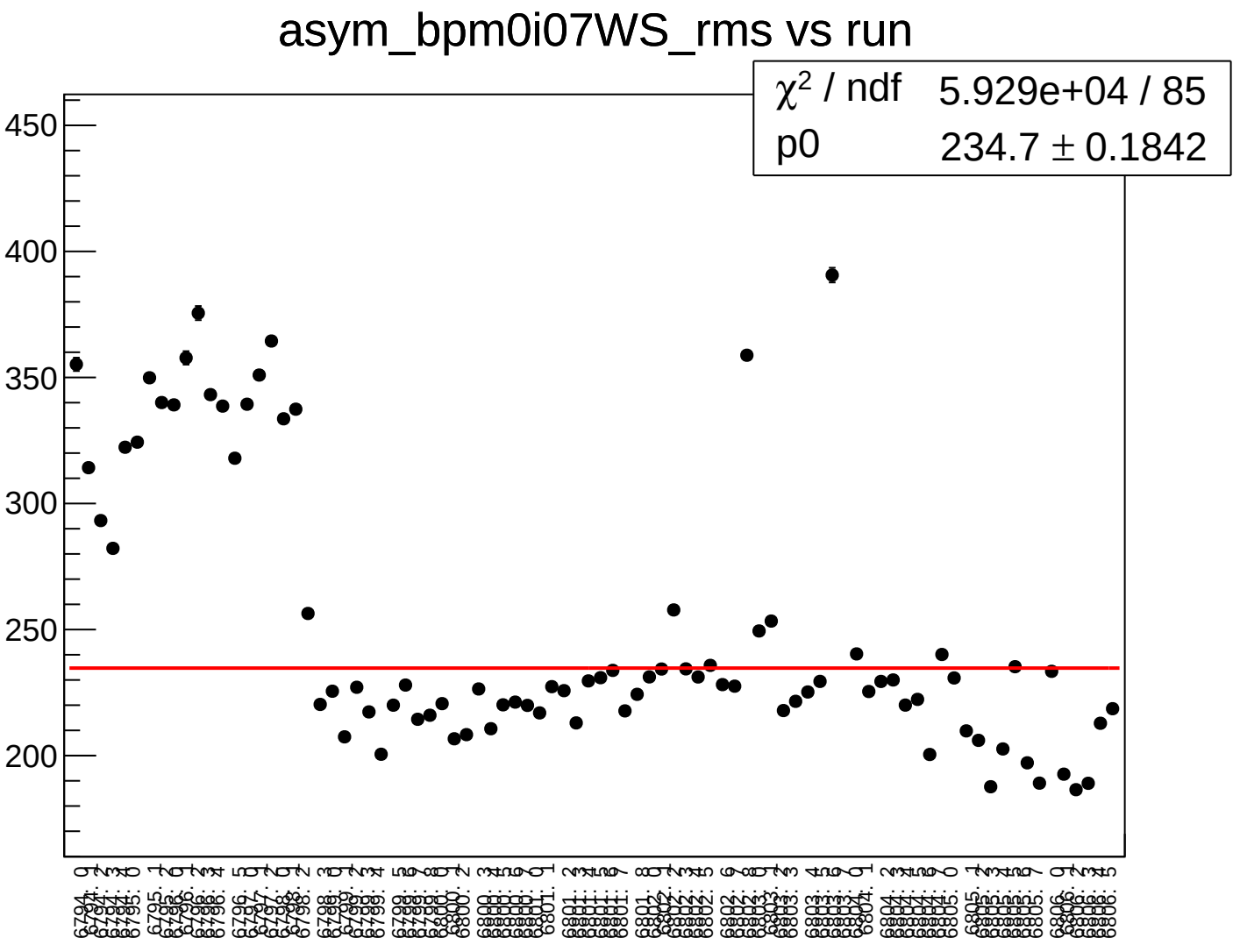

asym_bpm0i05WS_mean vs run
χ² / ndf 385.2 / 85
p0 1.816e+04 ± 245.4
35000
30000
25000
20000
15000
10000
5000
pull
Entries 86
Mean −104.6
Std Dev 0
6
4
2
0
−2
−4

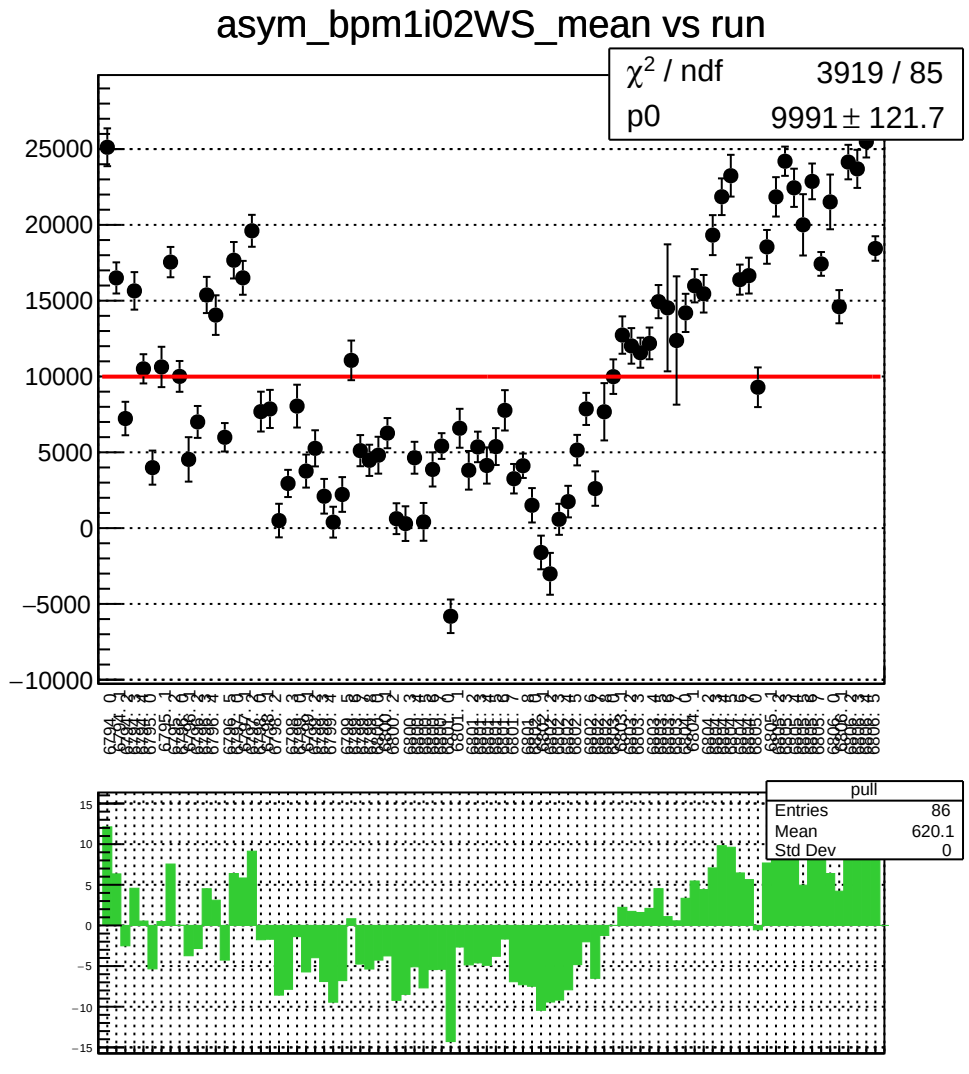

pull1D
Entries 86
Mean −0.1557
Std Dev 2.111
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

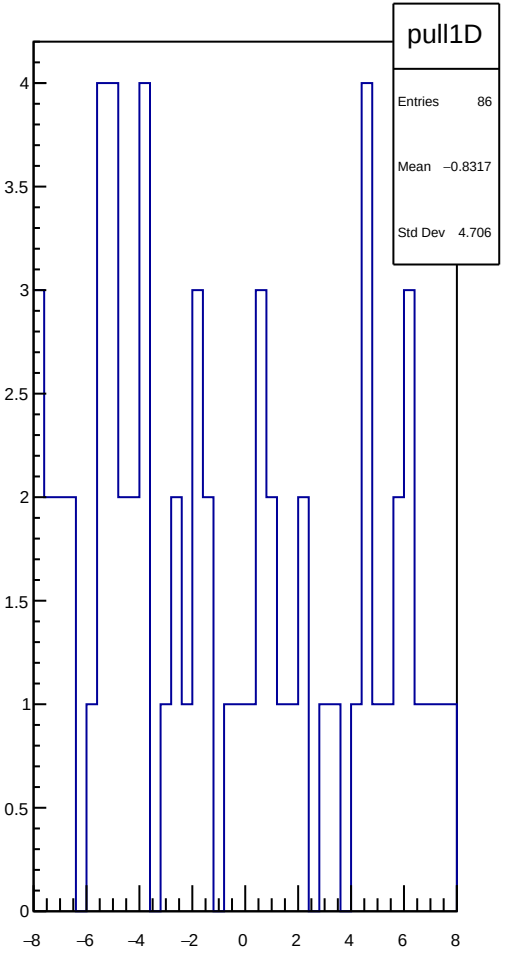

asym_bpm0i05WS_rms vs run
χ² / ndf 7.837e+04 / 85
p0 219.8 ± 0.1735
400
350
300
250
200
150

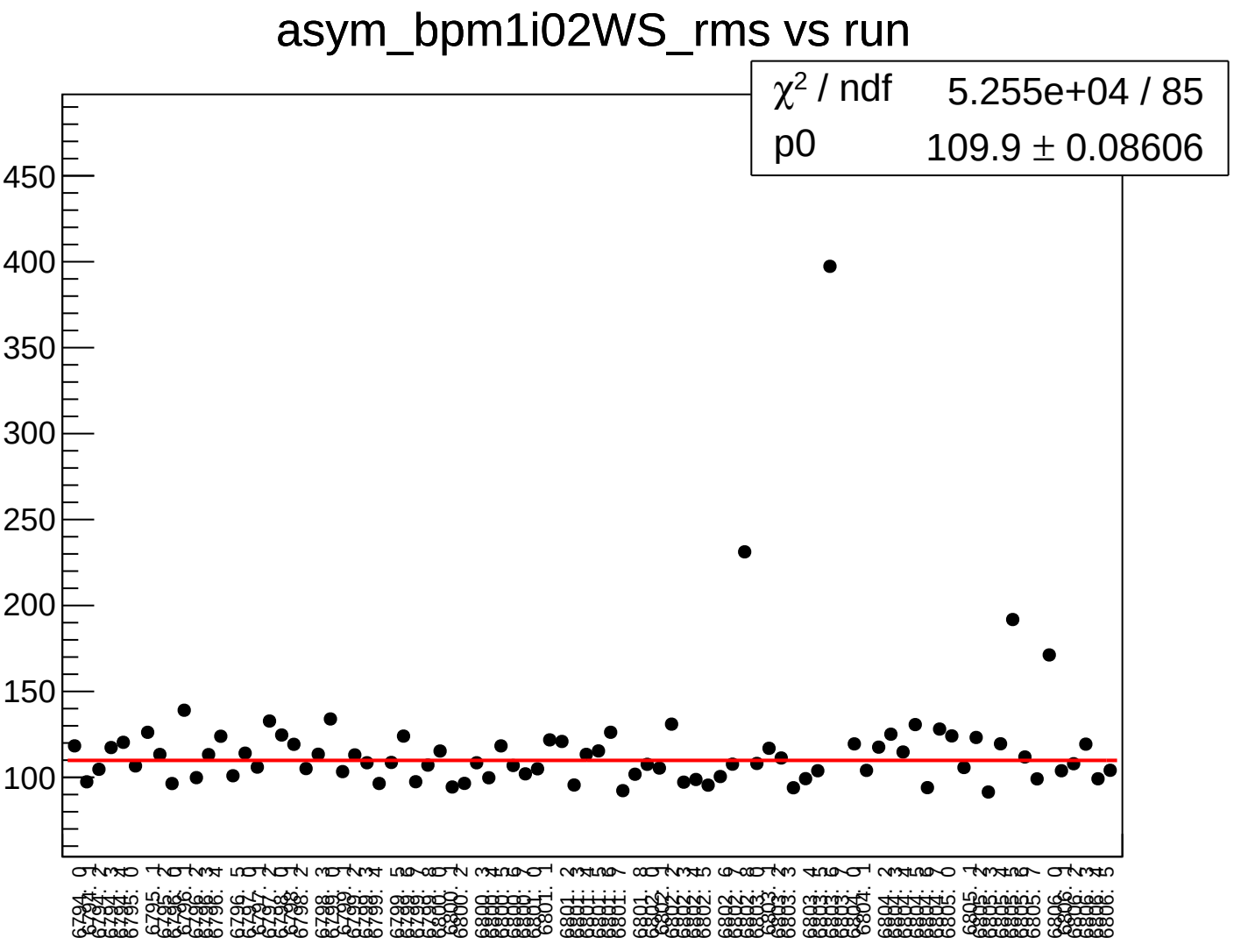

asym_bpm0i07WS_mean vs run
χ² / ndf 170.3 / 85
p0 4852 ± 260.5
30000
25000
20000
15000
10000
5000
0
−5000
pull
Entries 86
Mean −27.09
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

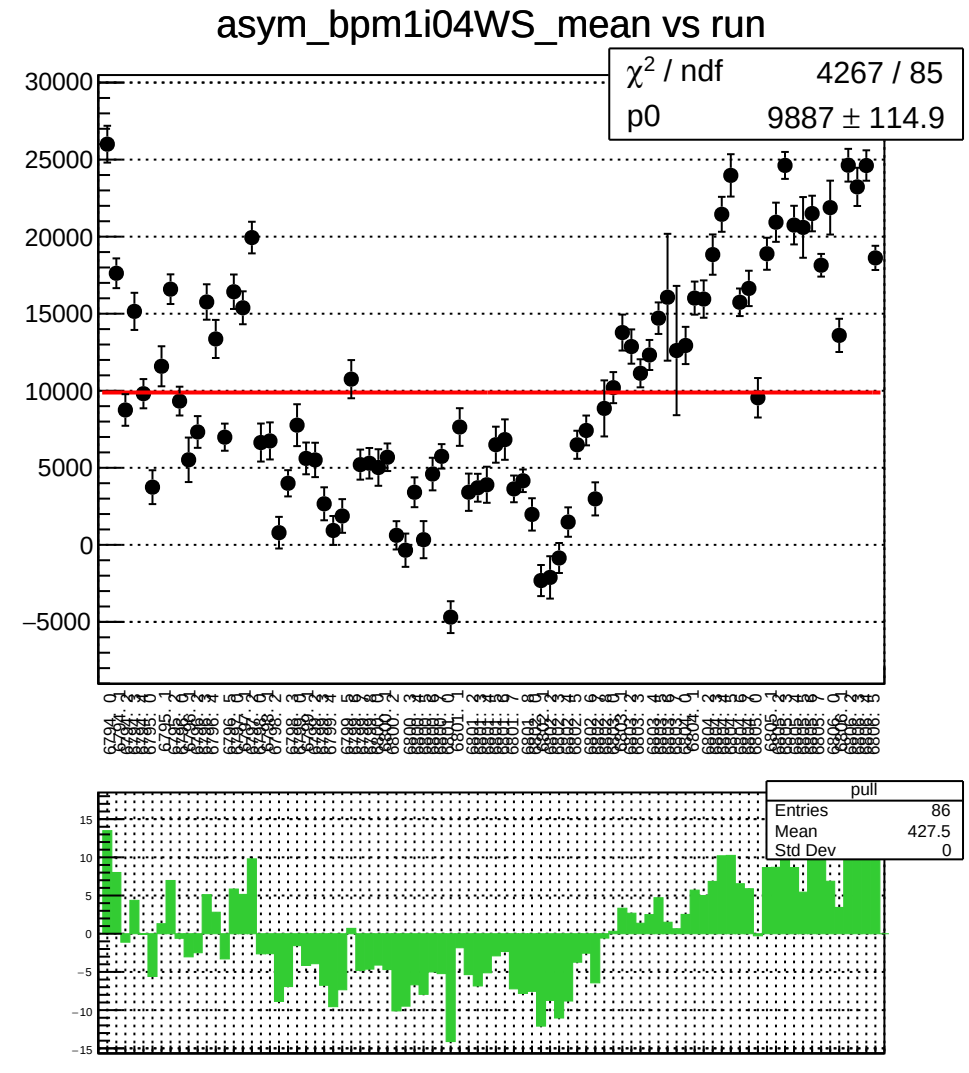

pull1D
Entries 86
Mean 0.05233
Std Dev 1.406
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

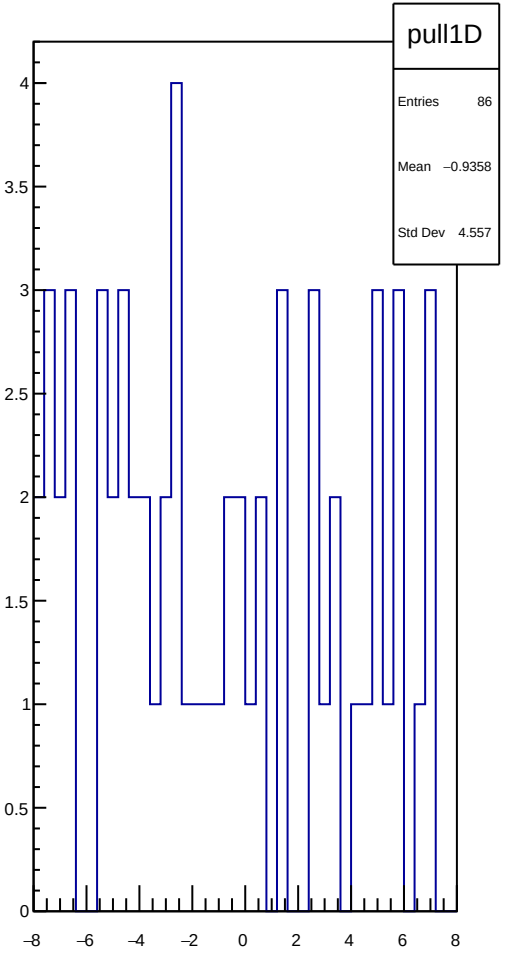

asym_bpm0i07WS_rms vs run
χ^2 / ndf 5.929e+04 / 85
p0 234.7 ± 0.1842
450
400
350
300
250
200

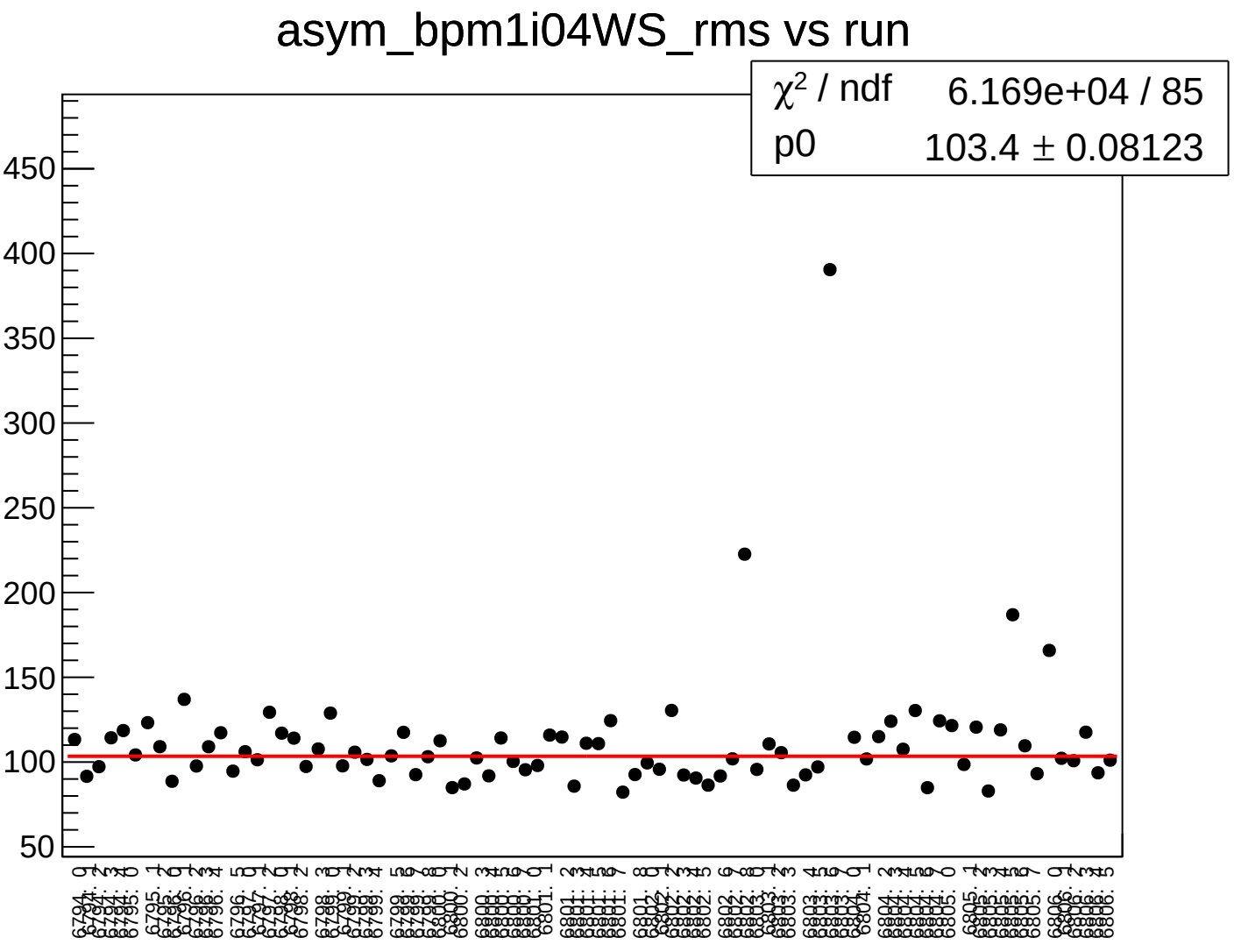

asym_bpm1i02WS_mean vs run
χ² / ndf 3919 / 85
p0 9991 ± 121.7
pull
Entries 86
Mean 620.1
Std Dev 0

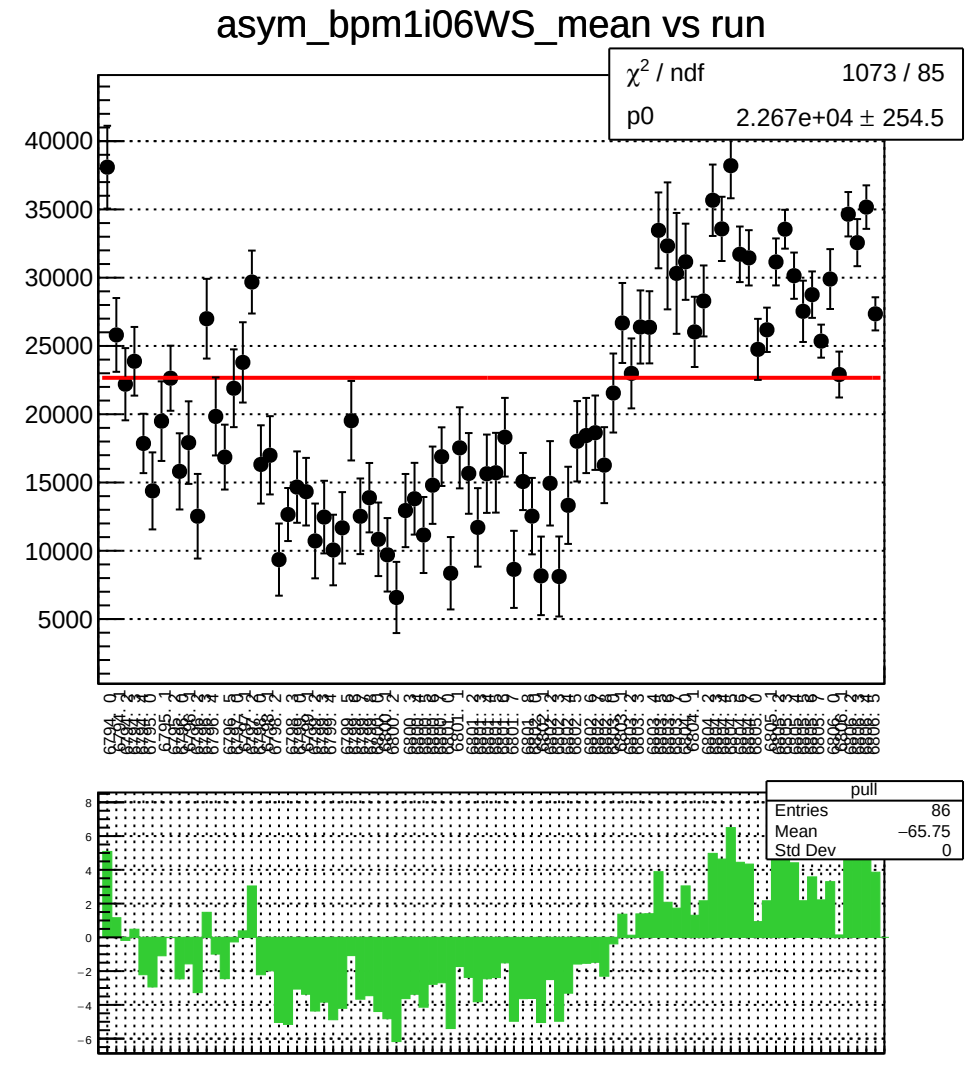

pull1D
Entries 86
Mean −0.8317
Std Dev 4.706

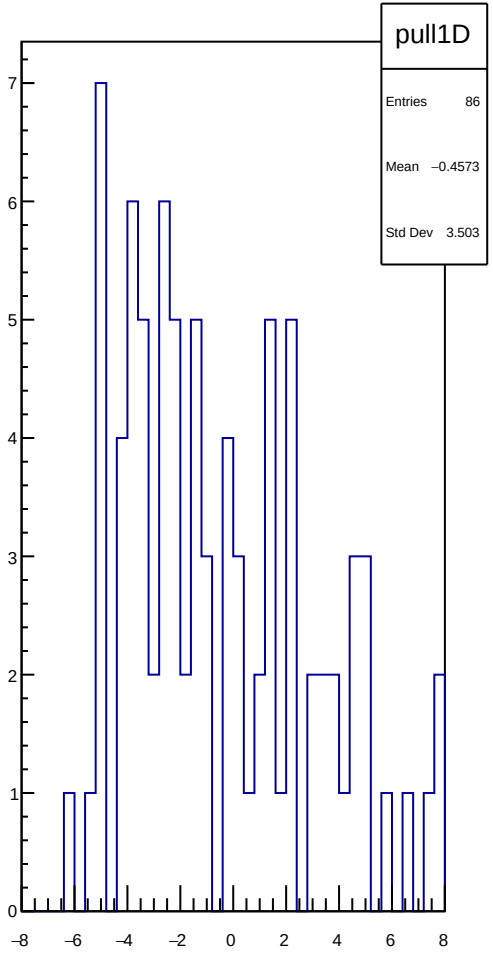

asym_bpm1i02WS_rms vs run
χ^2 / ndf 5.255e+04 / 85
p0 109.9 ± 0.08606
450
400
350
300
250
200
150
100

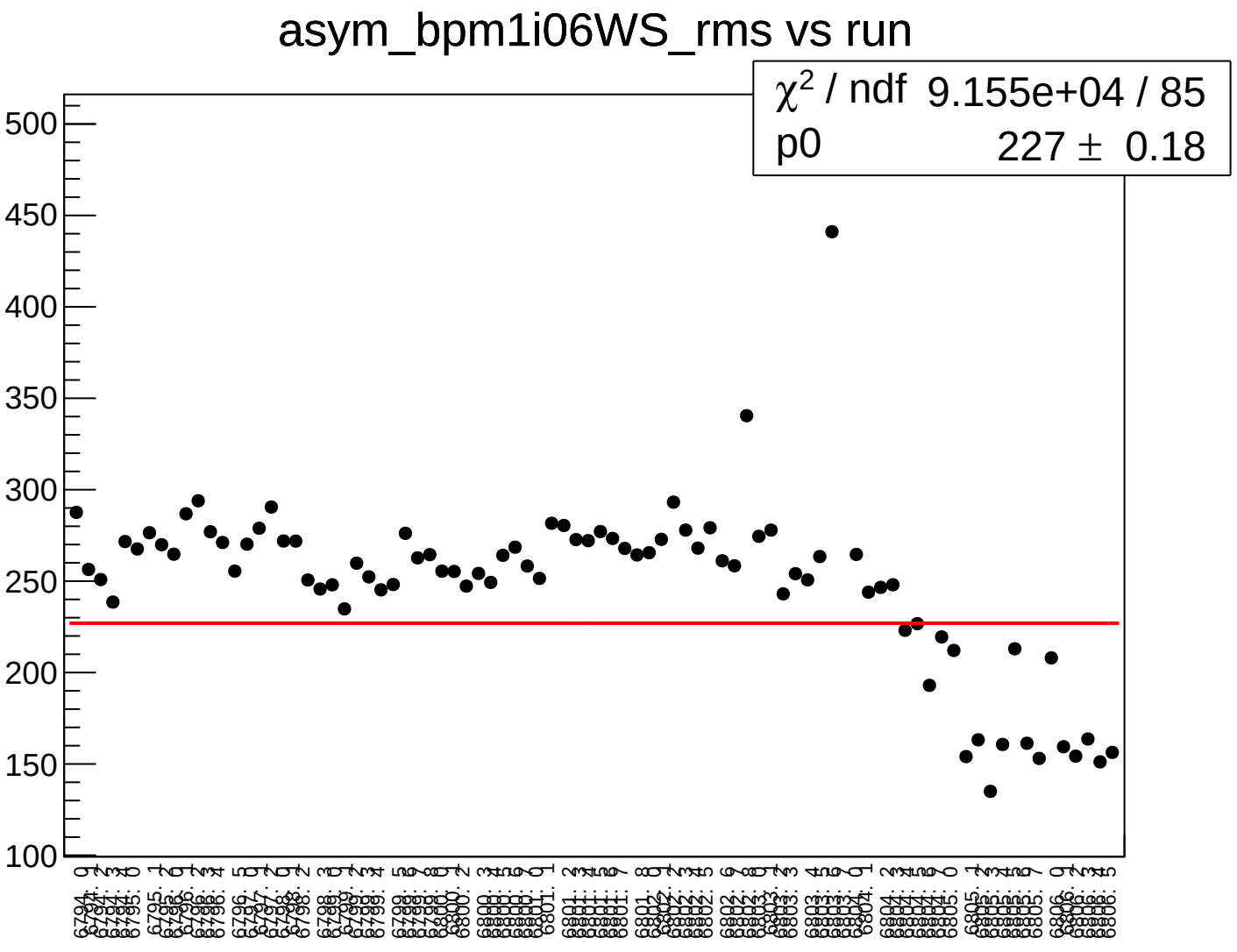

asym_bpm1i04WS_mean vs run
χ² / ndf 4267 / 85
p0 9887 ± 114.9
pull
Entries 86
Mean 427.5
Std Dev 0

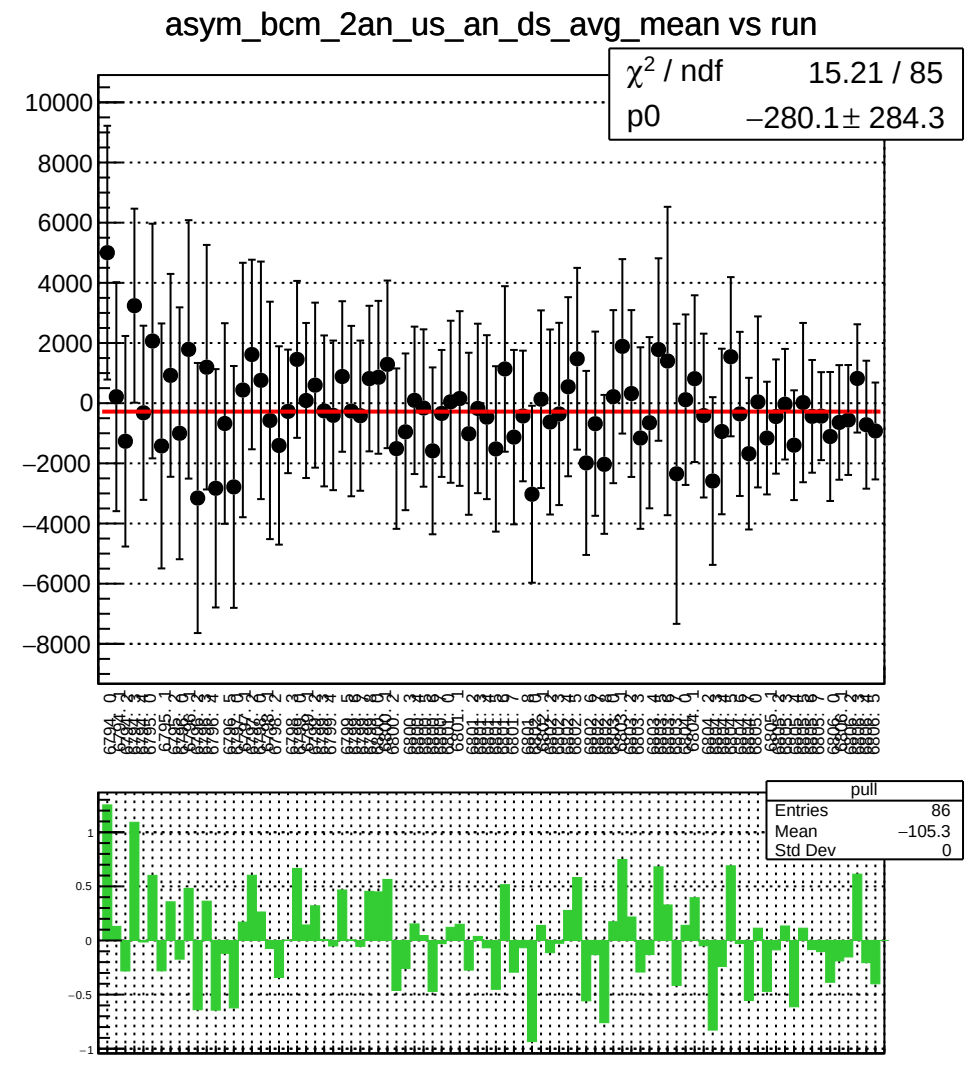

pull1D
Entries 86
Mean −0.9358
Std Dev 4.557

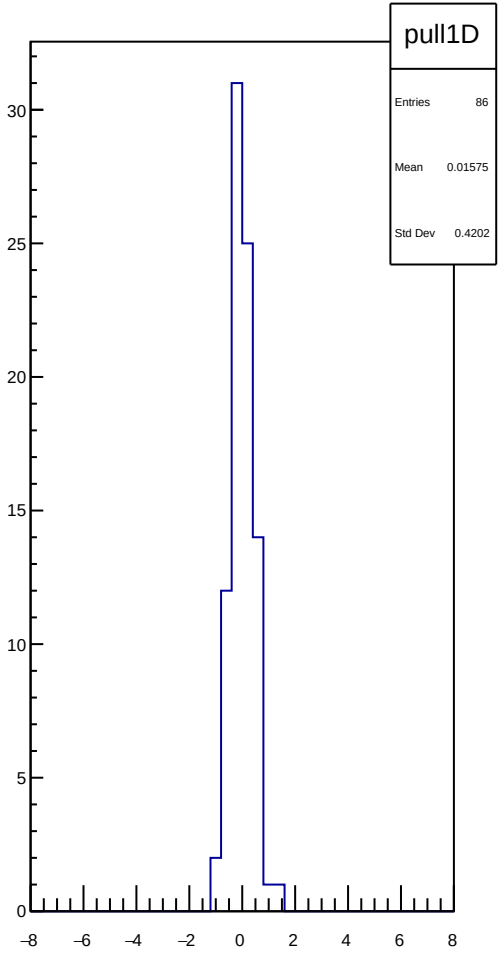

asym_bpm1i04WS_rms vs run
χ^2 / ndf 6.169e+04 / 85
p0 103.4 ± 0.08123
450
400
350
300
250
200
150
100
50

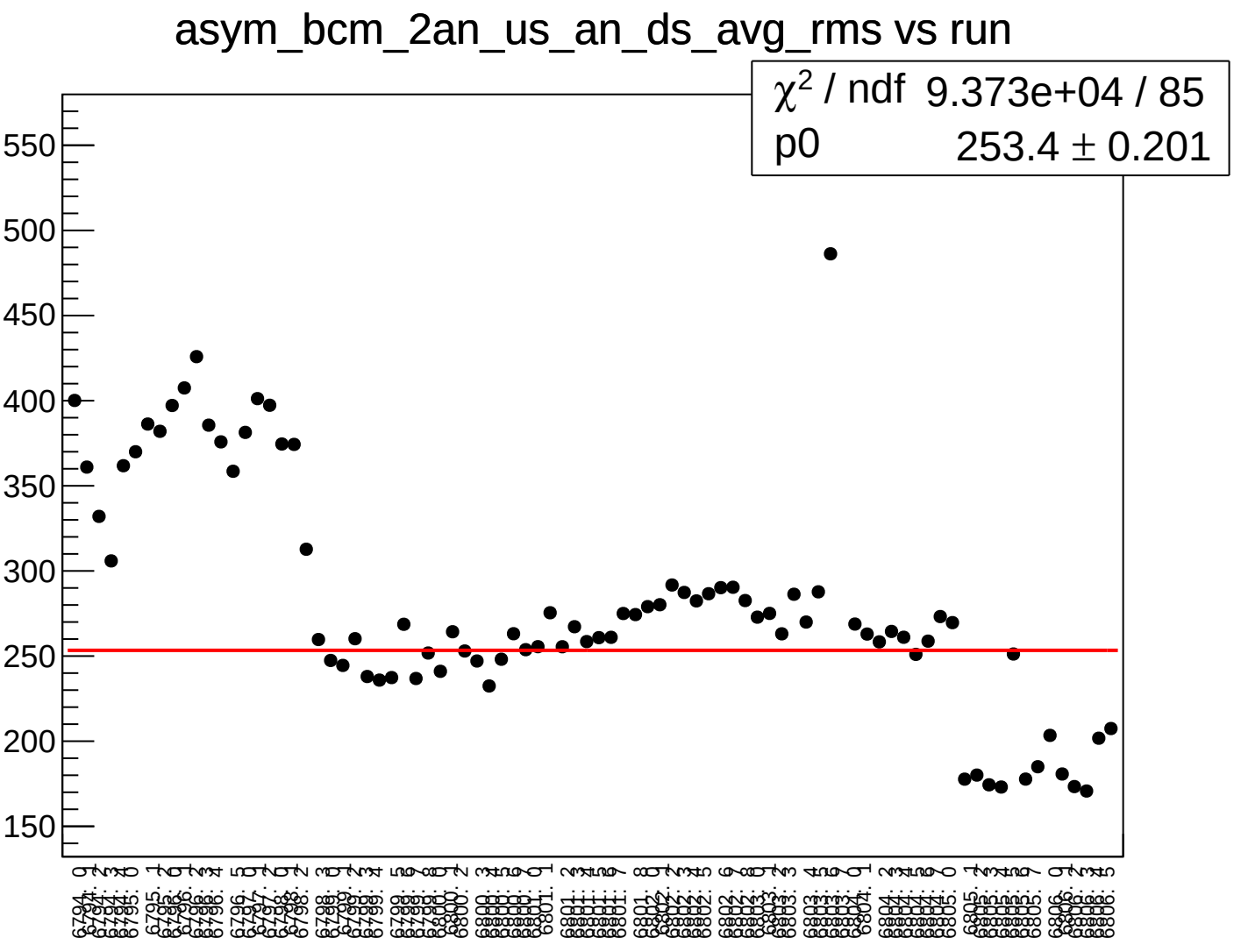

asym_bpm1i06WS_mean vs run
χ² / ndf 1073 / 85
p0 2.267e+04 ± 254.5
40000
35000
30000
25000
20000
15000
10000
5000
pull
Entries 86
Mean −65.75
Std Dev 0
8
6
4
2
0
−2
−4
−6

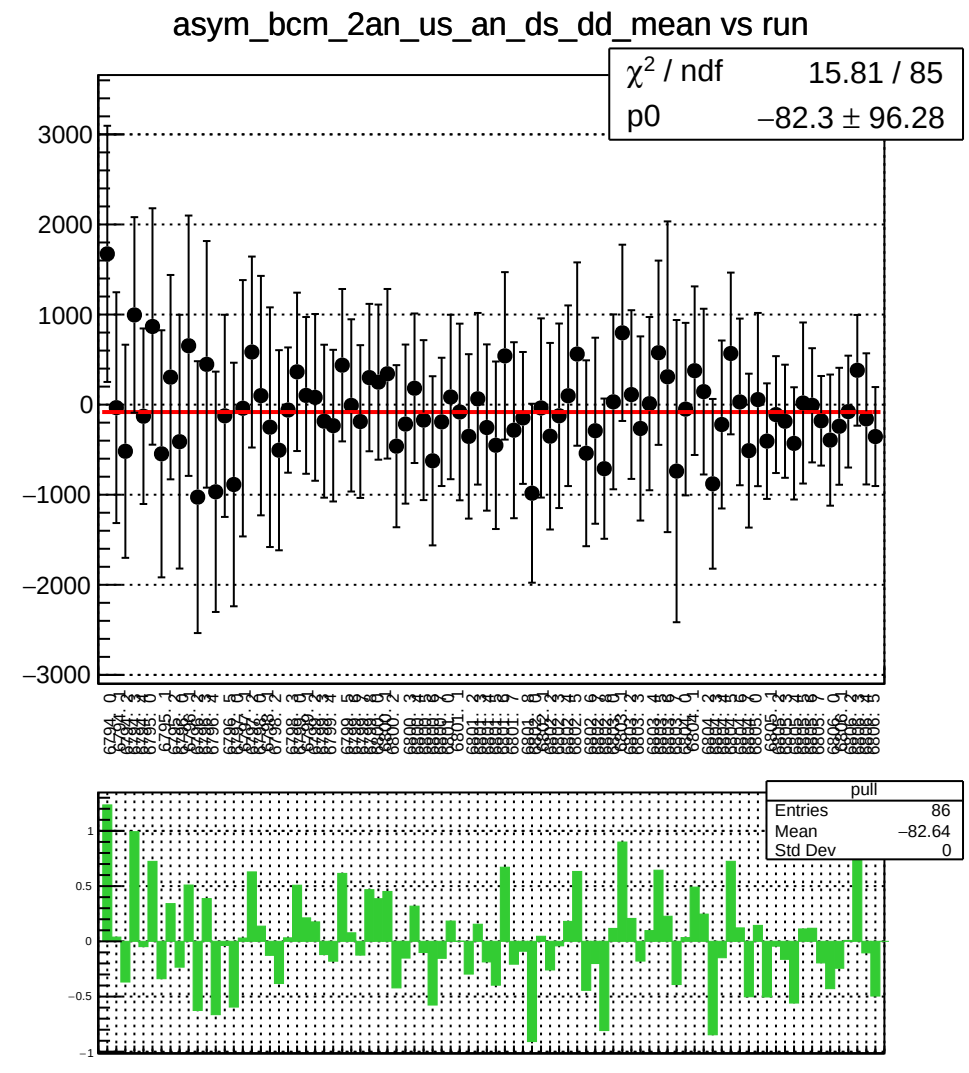

pull1D
Entries 86
Mean −0.4573
Std Dev 3.503
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

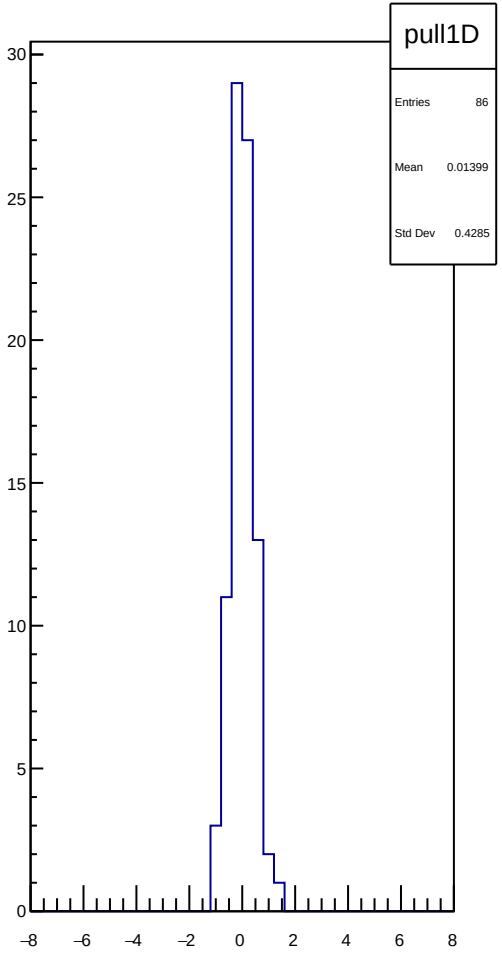

asym_bpm1i06WS_rms vs run
χ² / ndf 9.155e+04 / 85
p0 227 ± 0.18
500
450
400
350
300
250
200
150
100

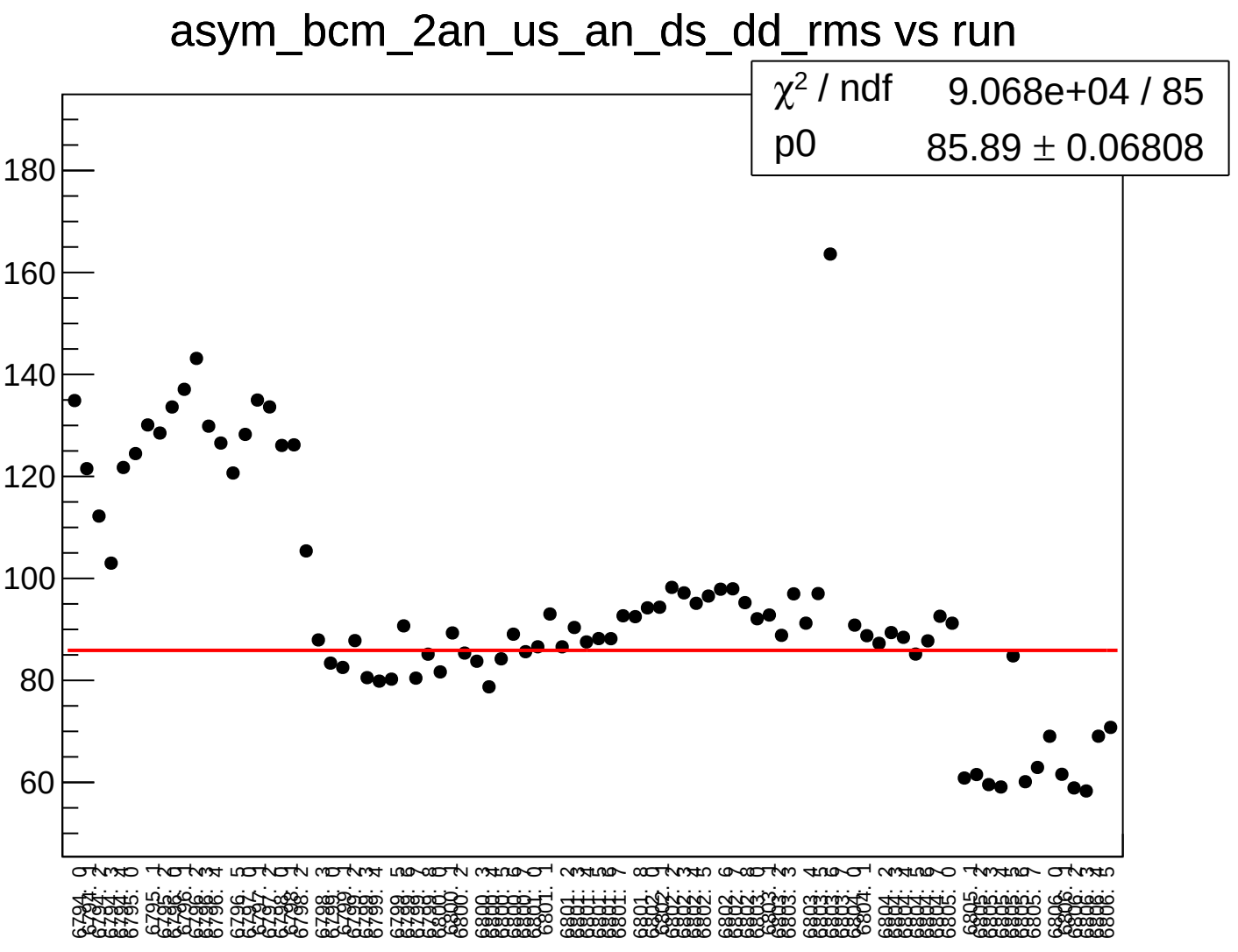

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 15.21 / 85
p0 −280.1± 284.3
pull
Entries 86
Mean −105.3
Std Dev 0

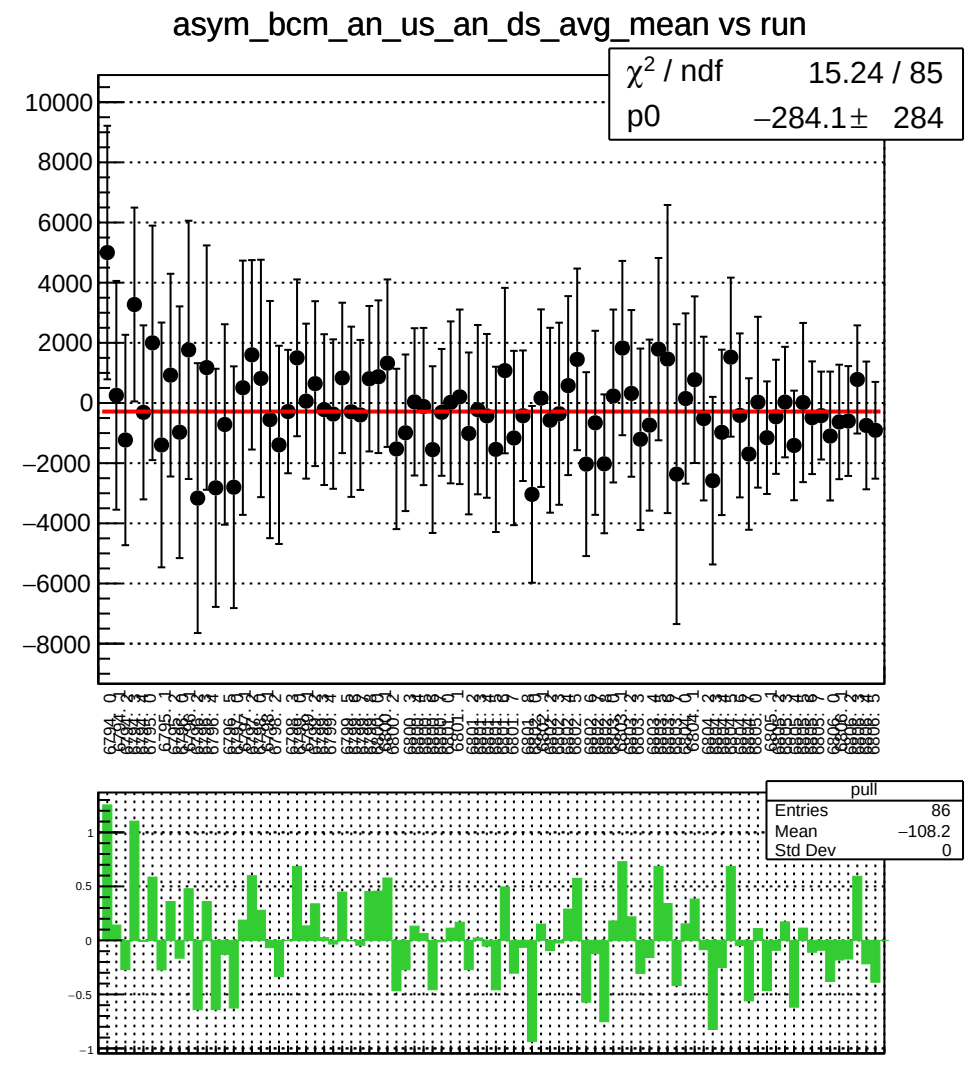

pull1D
Entries 86
Mean 0.01575
Std Dev 0.4202

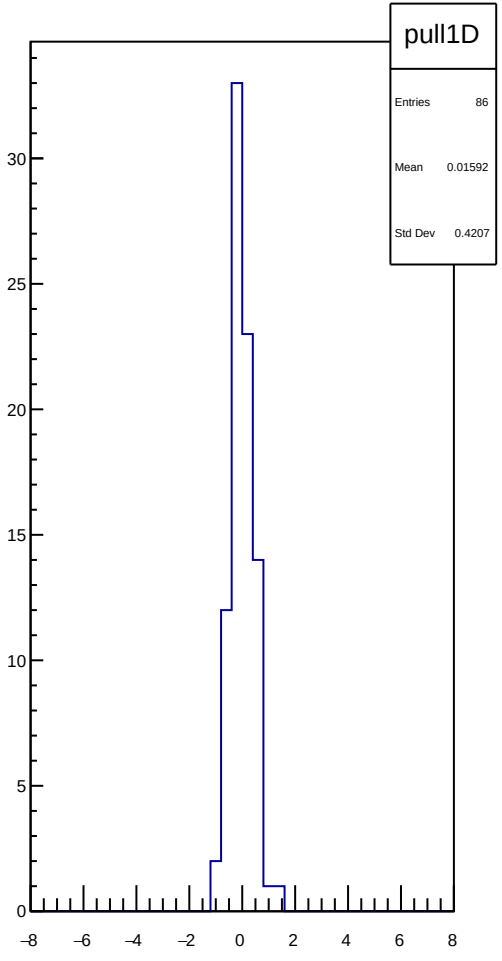

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 9.373e+04 / 85
p0 253.4 ± 0.201
550
500
450
400
350
300
250
200
150

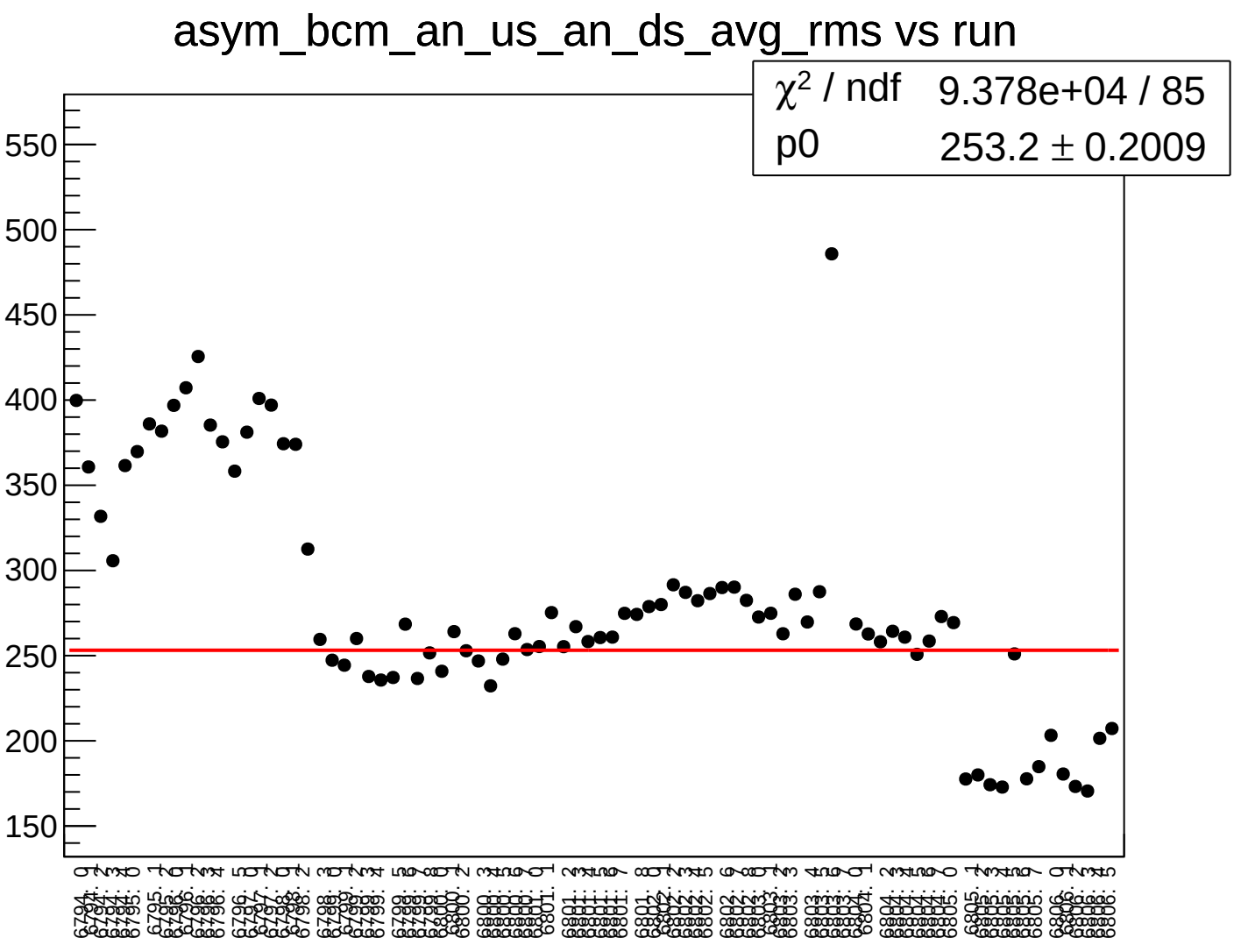

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 15.81 / 85
p0 −82.3 ± 96.28
pull
Entries 86
Mean −82.64
Std Dev 0

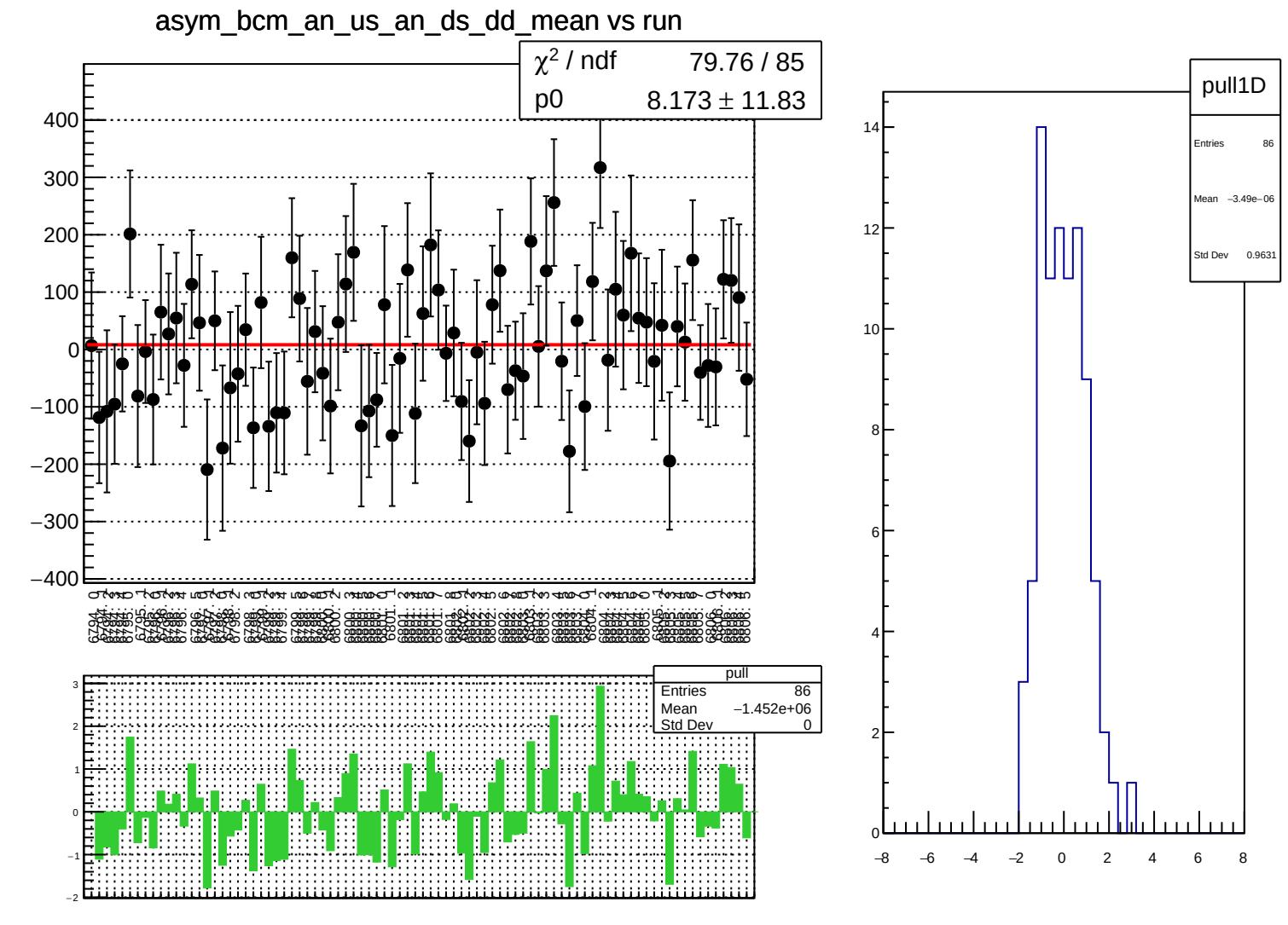

pull1D
Entries 86
Mean 0.01399
Std Dev 0.4285

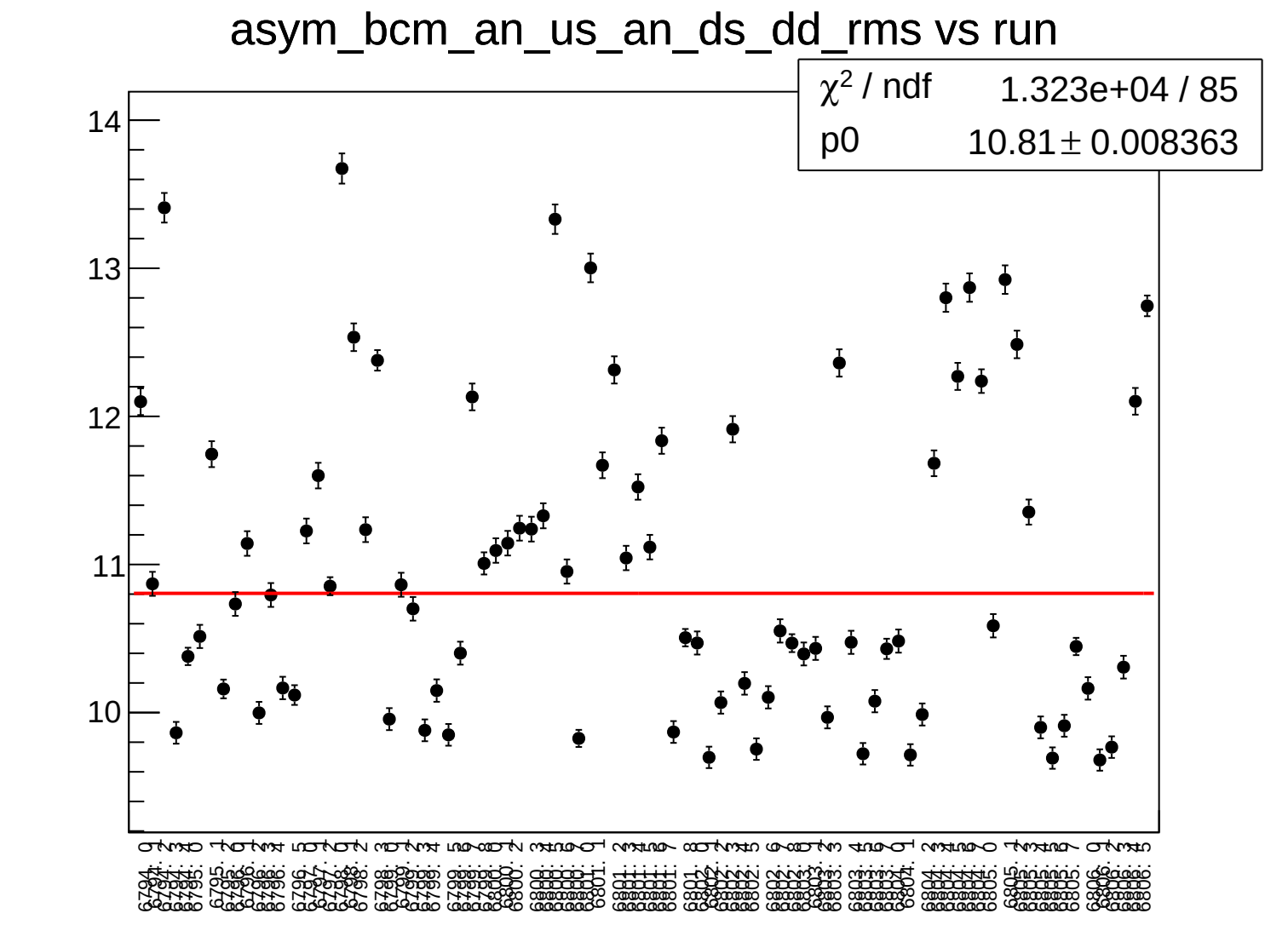

asym_bcm_2an_us_an_ds_dd_rms vs run
χ^2 / ndf 9.068e+04 / 85
p0 85.89 ± 0.06808
180
160
140
120
100
80
60

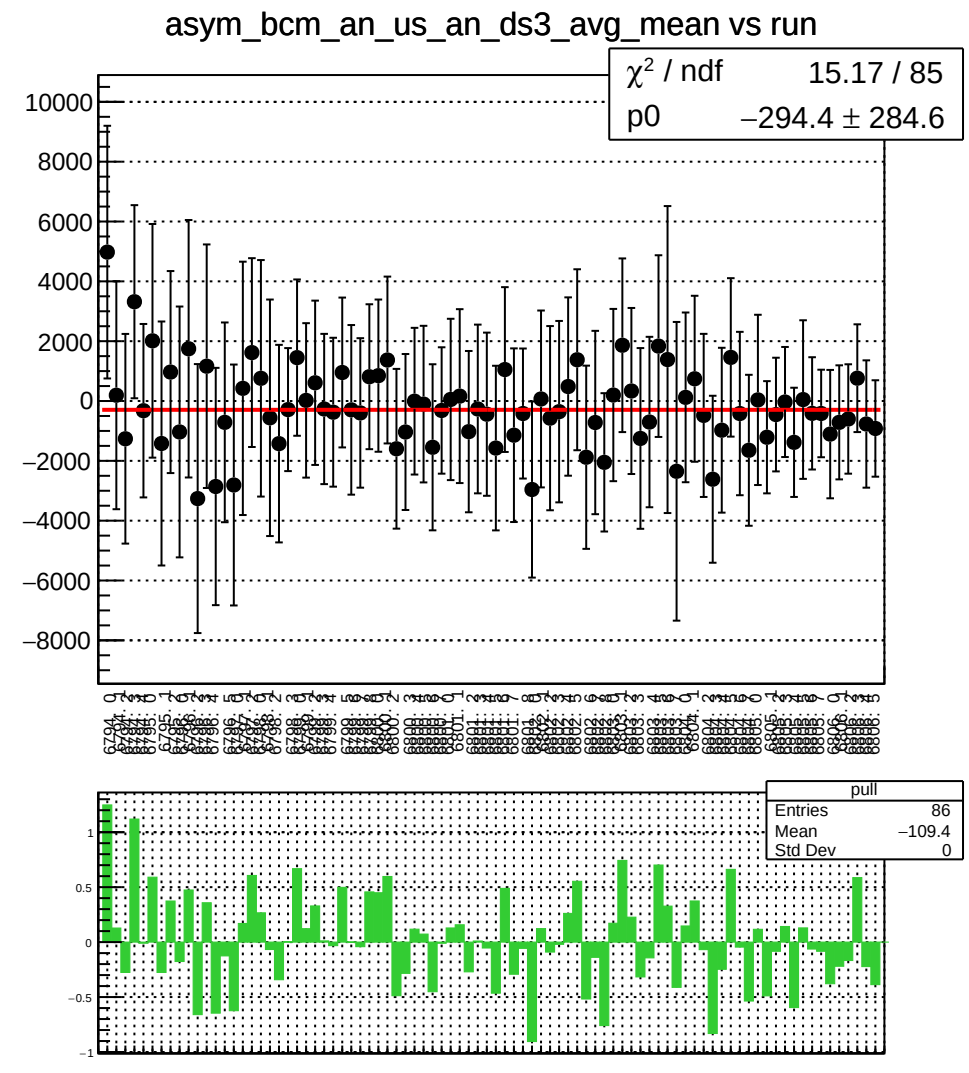

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 15.24 / 85
p0 −284.1± 284
pull
Entries 86
Mean −108.2
Std Dev 0

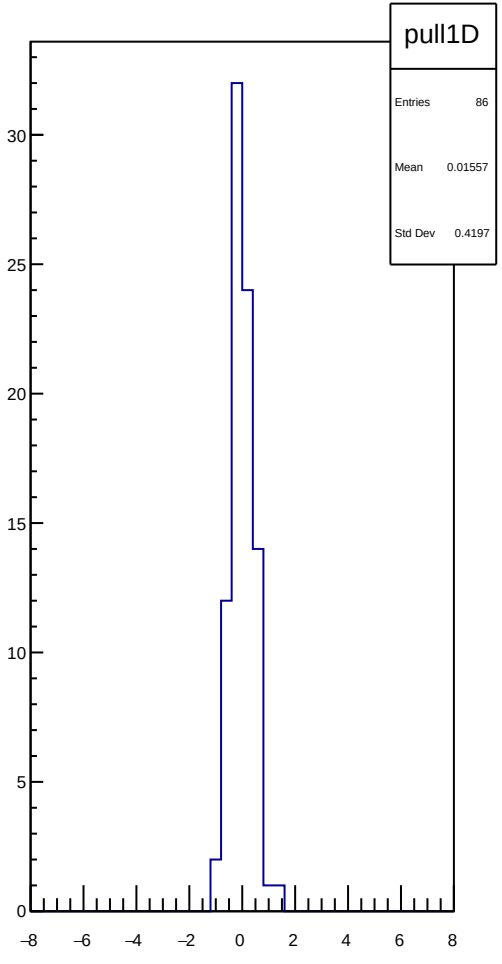

pull1D
Entries 86
Mean 0.01592
Std Dev 0.4207

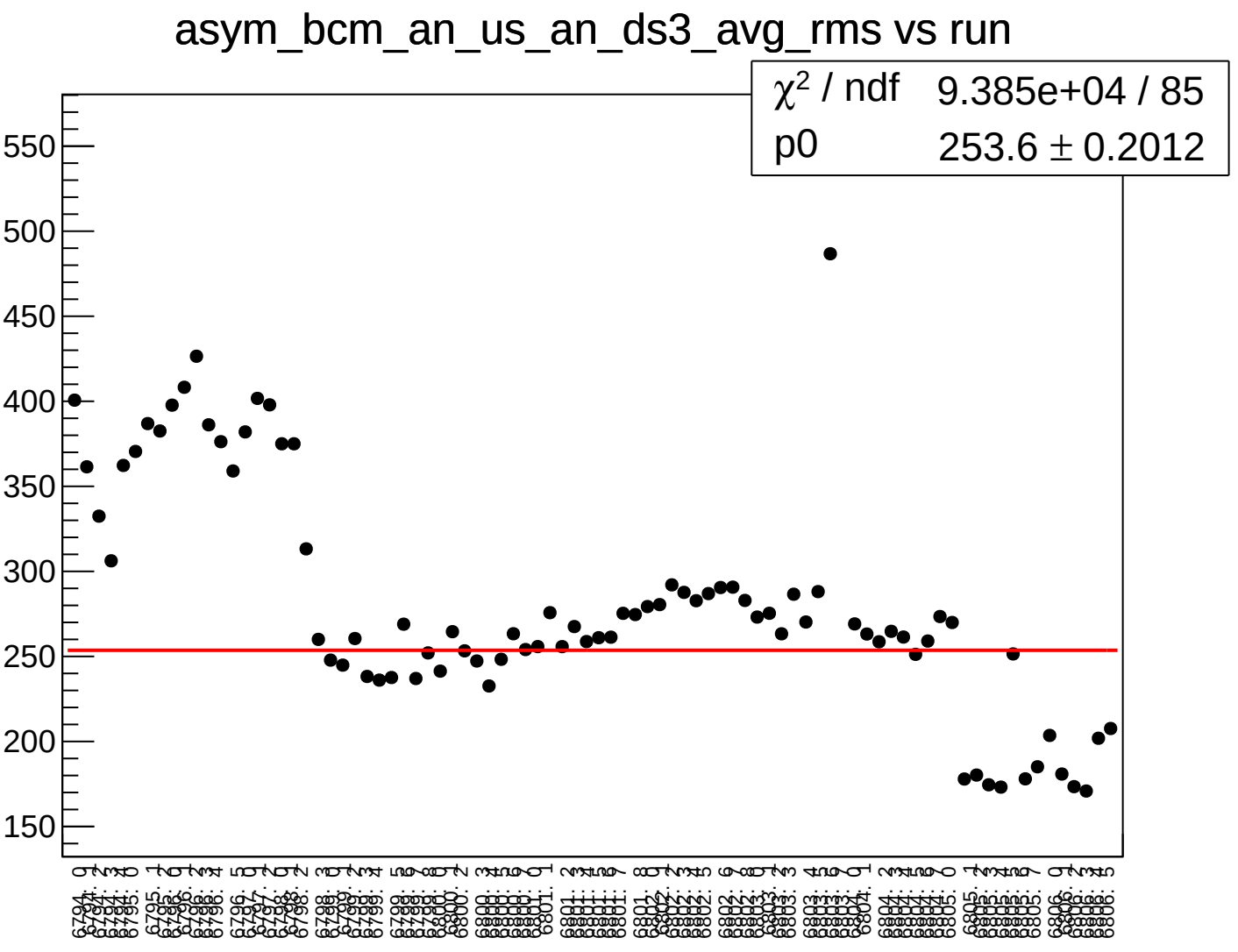

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 9.378e+04 / 85
p0 253.2 ± 0.2009
550
500
450
400
350
300
250
200
150

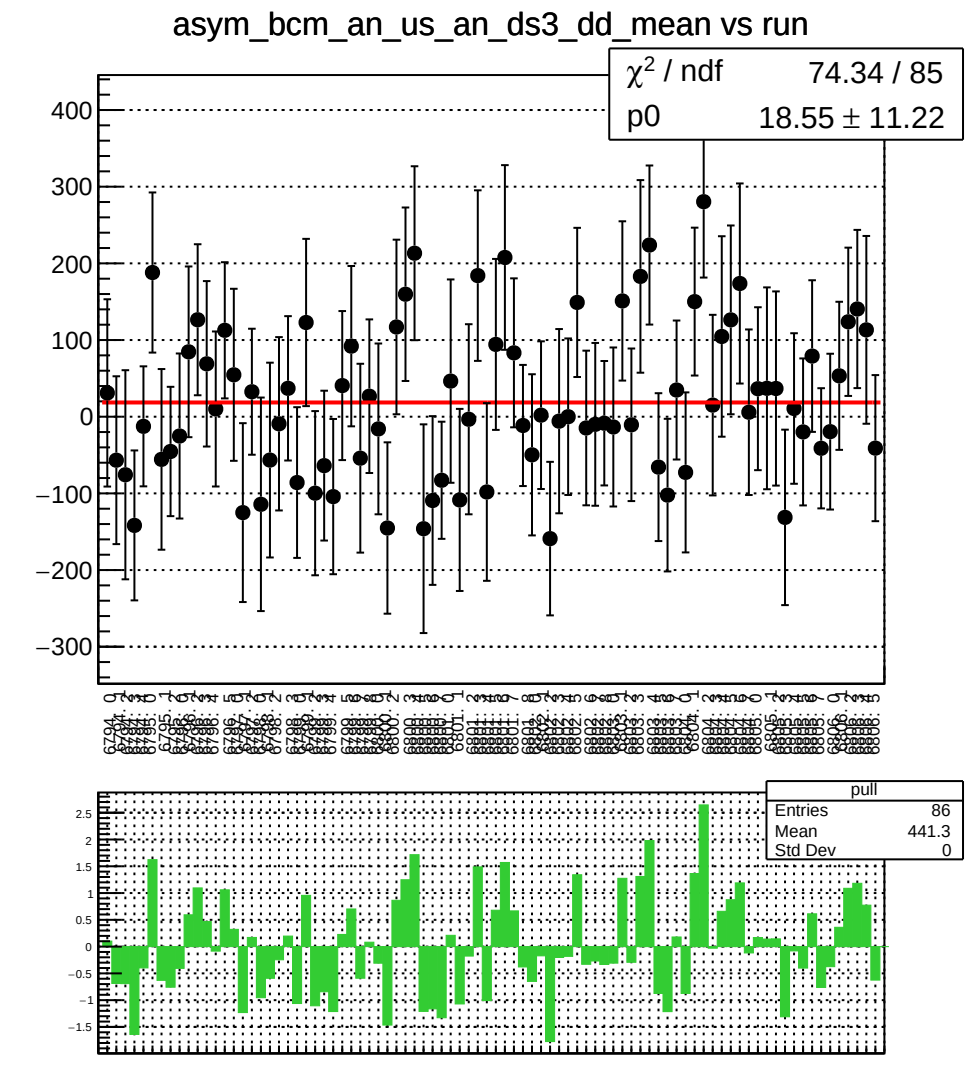

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 79.76 / 85
p0 8.173 ± 11.83
pull
Entries 86
Mean −1.452e+06
Std Dev 0
pull1D
Entries 86
Mean −3.49e−06
Std Dev 0.9631

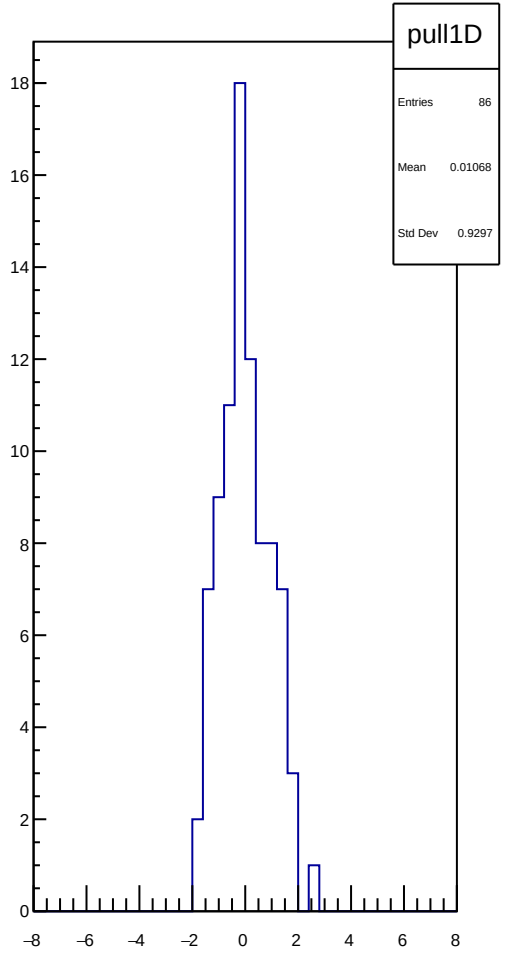

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.323e+04 / 85
p0 10.81 ± 0.008363
14
13
12
11
10

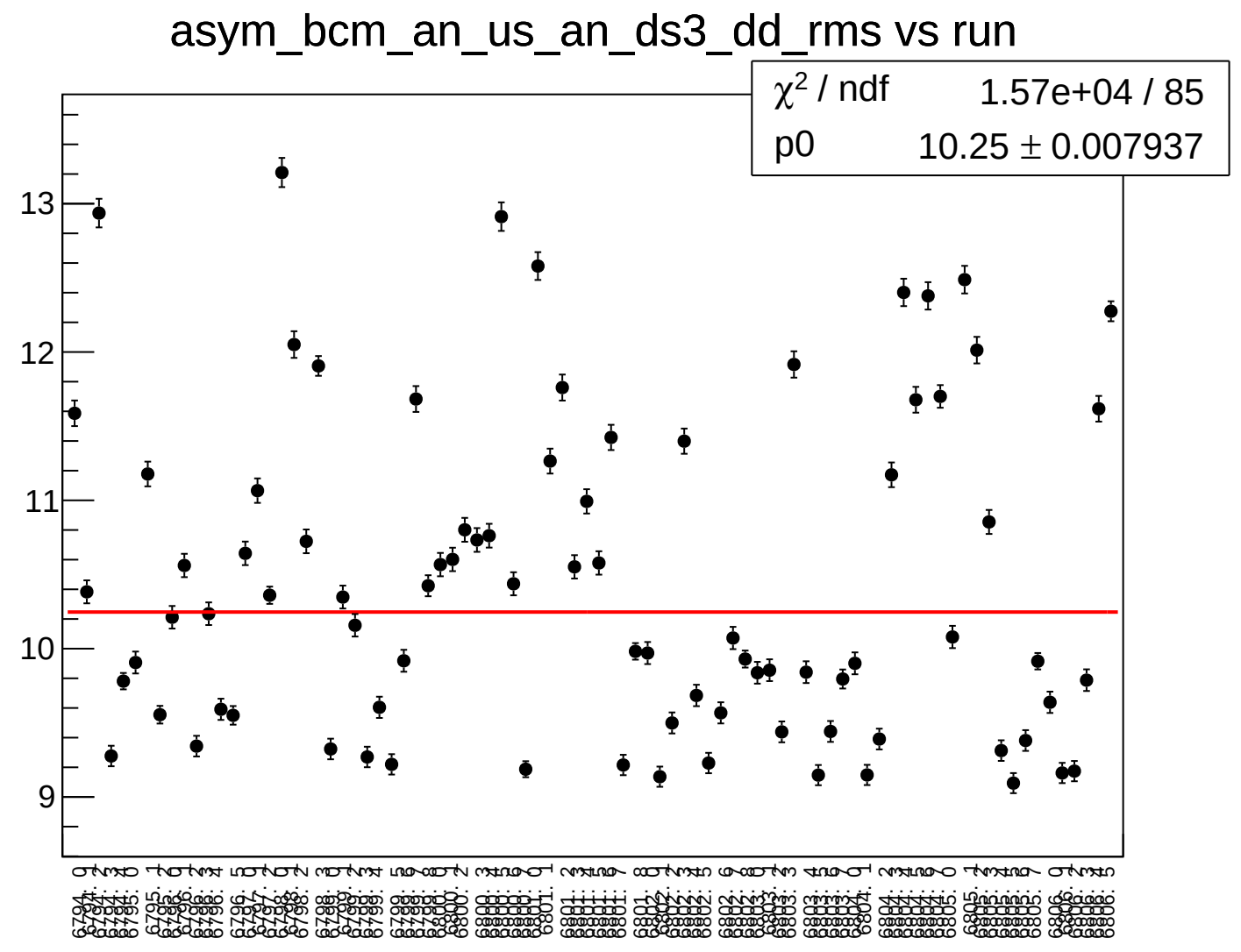

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 15.17 / 85
p0 −294.4 ± 284.6
pull
Entries 86
Mean −109.4
Std Dev 0

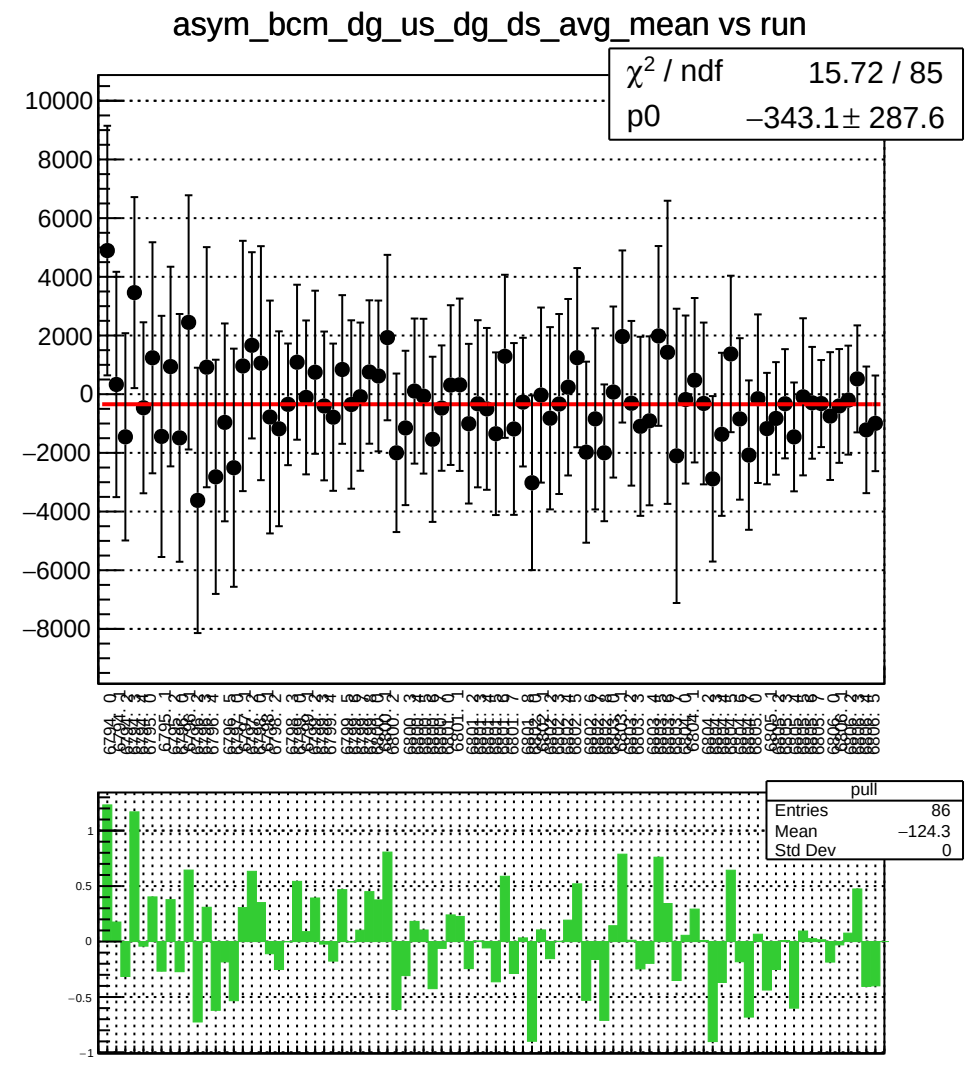

pull1D
Entries 86
Mean 0.01557
Std Dev 0.4197

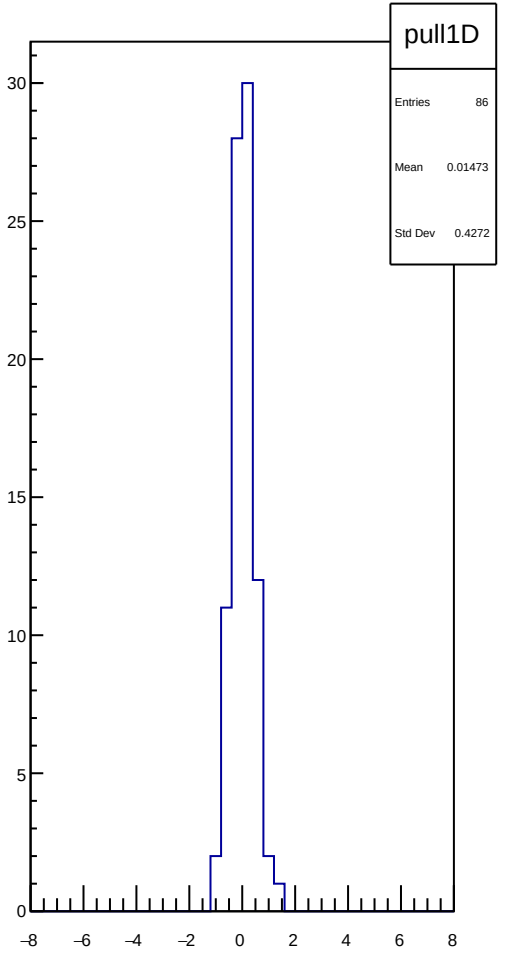

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 9.385e+04 / 85
p0 253.6 ± 0.2012
550
500
450
400
350
300
250
200
150

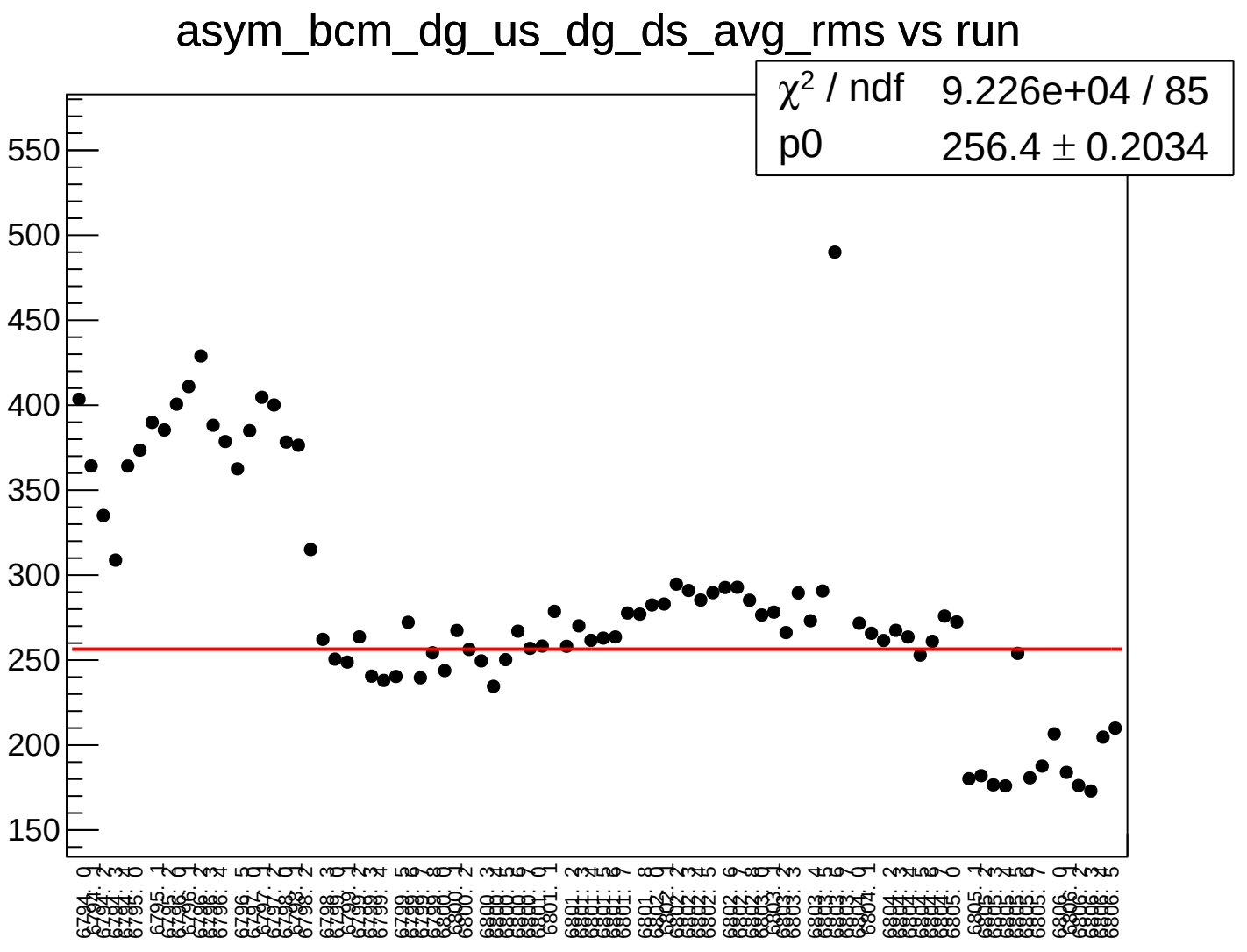

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 74.34 / 85
p0 18.55 ± 11.22
pull
Entries 86
Mean 441.3
Std Dev 0

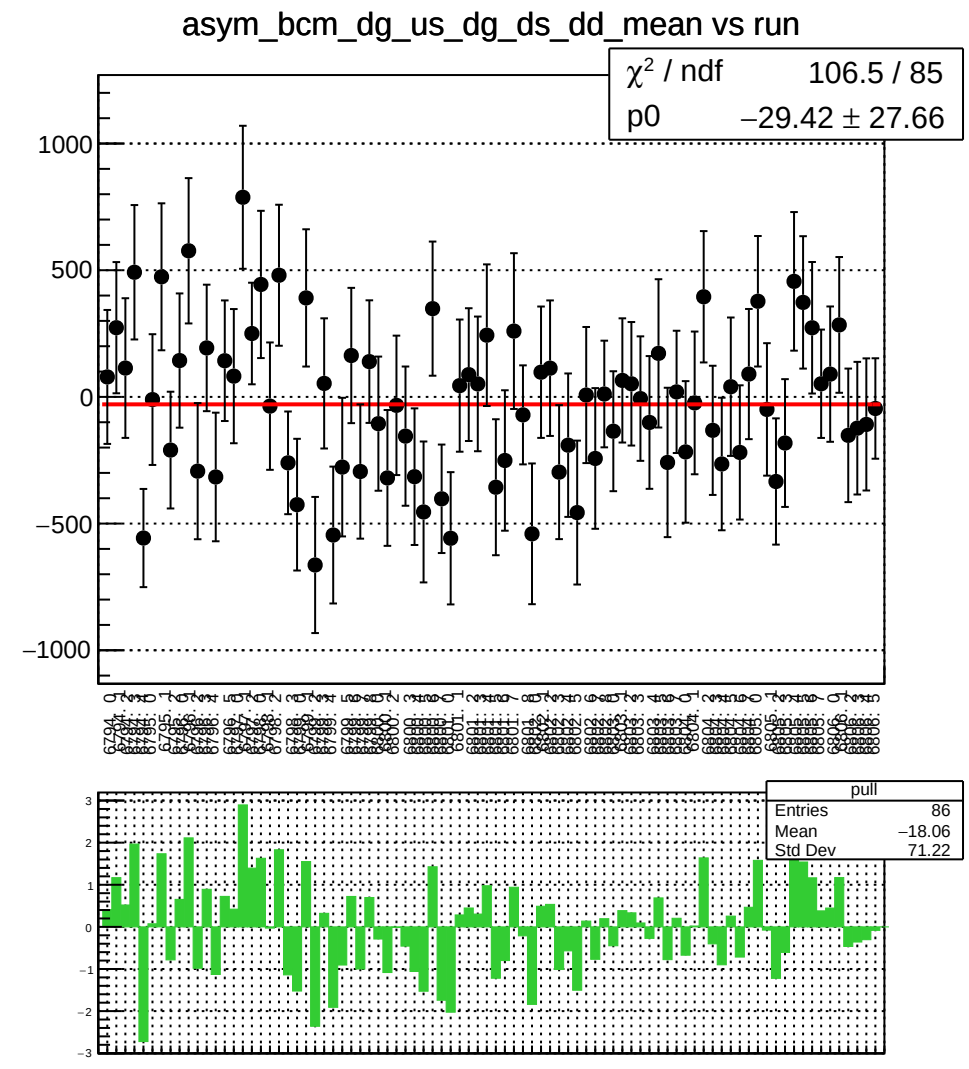

pull1D
Entries 86
Mean 0.01068
Std Dev 0.9297

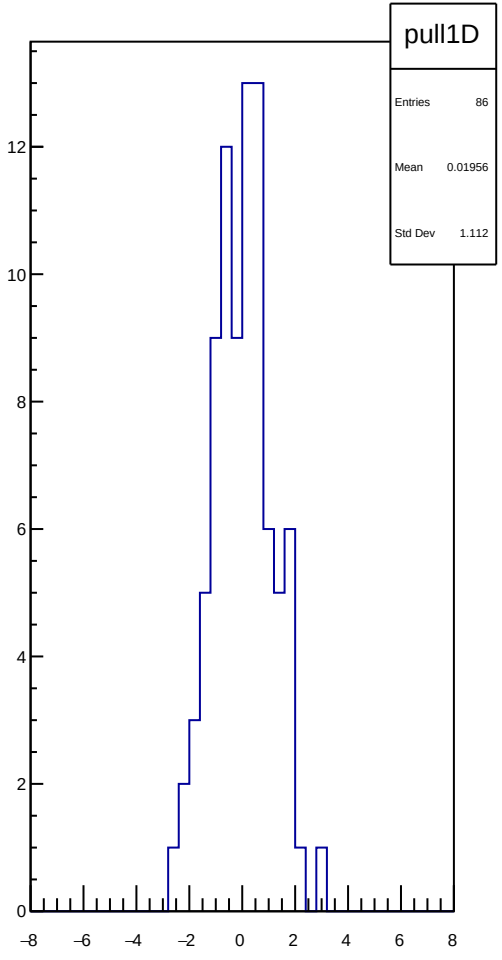

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.57e+04 / 85
p0 10.25 ± 0.007937
13
12
11
10
9

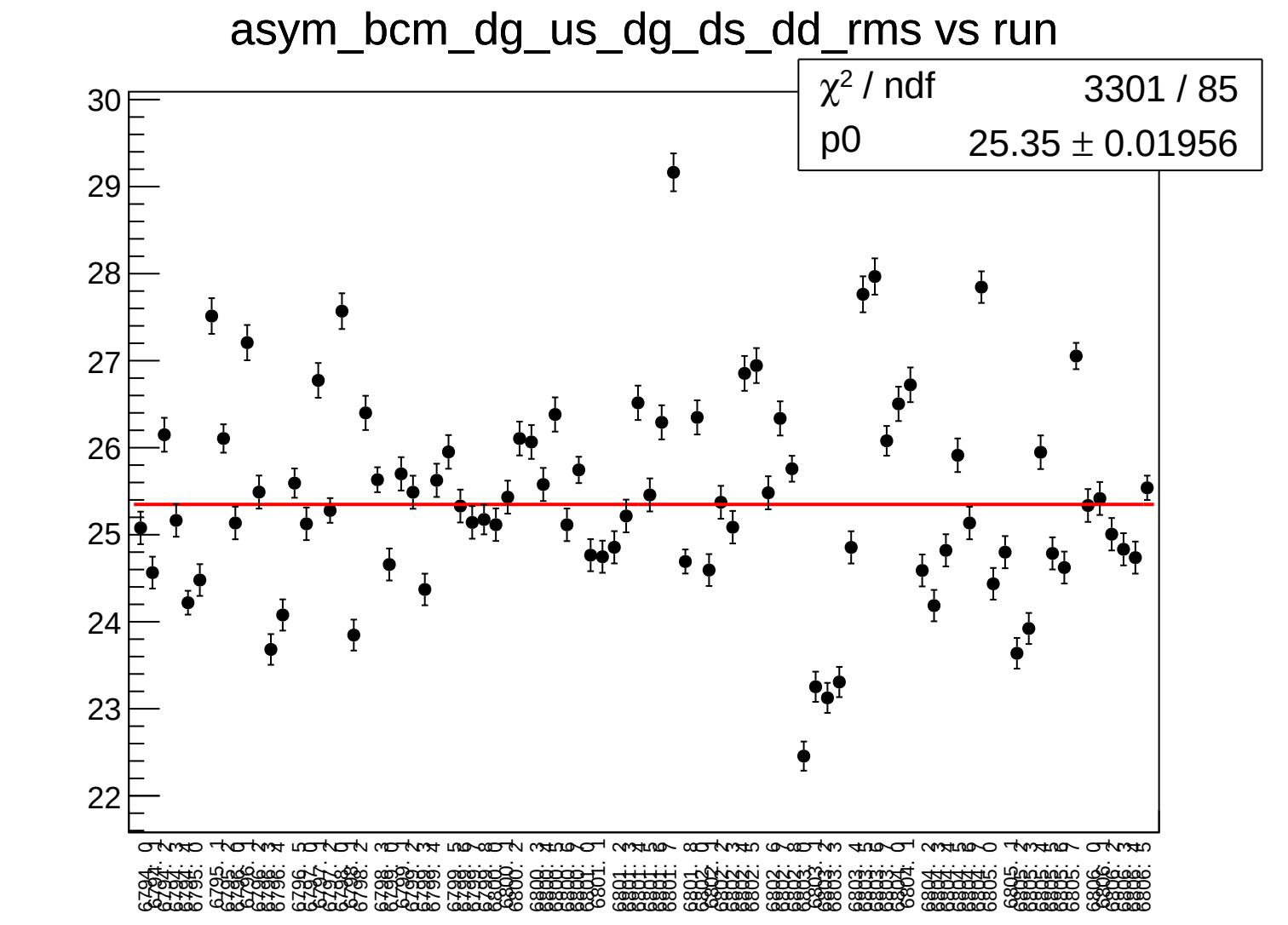

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 15.72 / 85
p0 −343.1± 287.6
pull
Entries 86
Mean −124.3
Std Dev 0

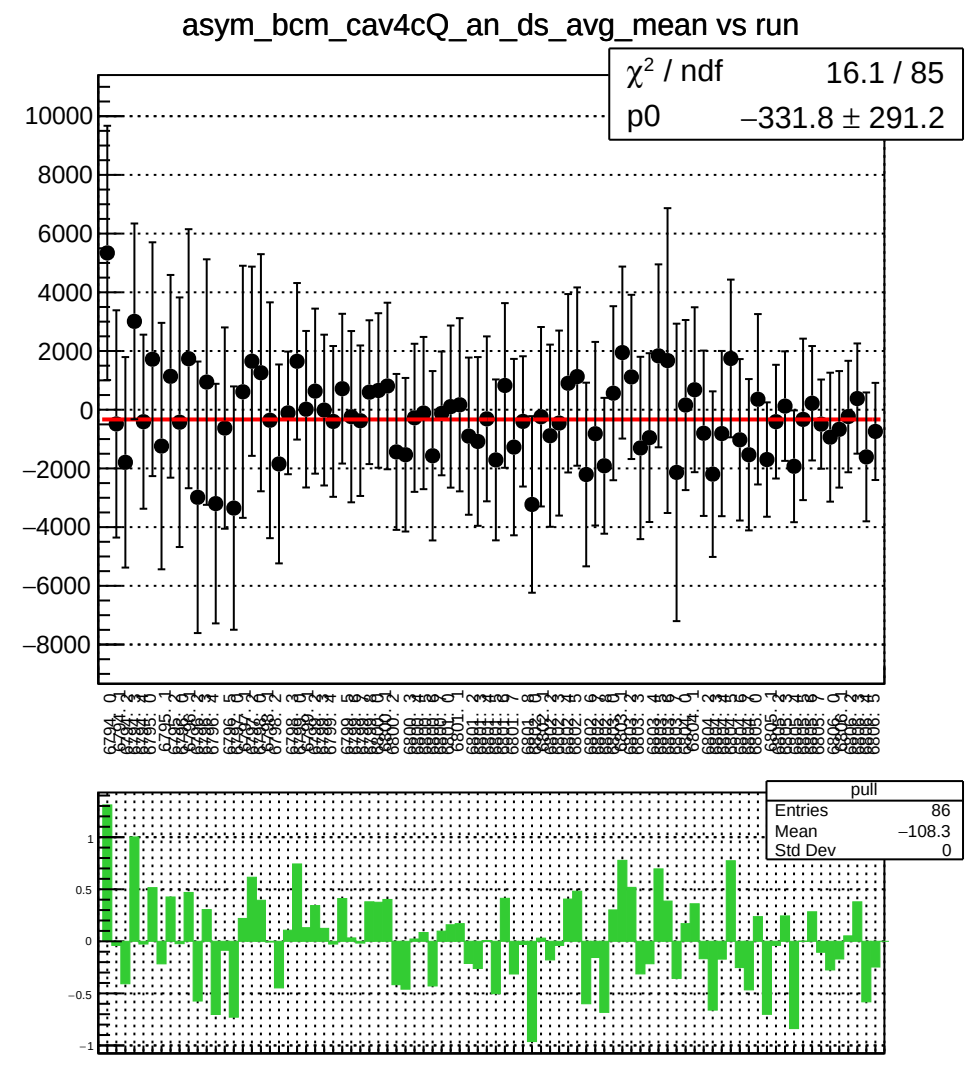

pull1D
Entries 86
Mean 0.01473
Std Dev 0.4272

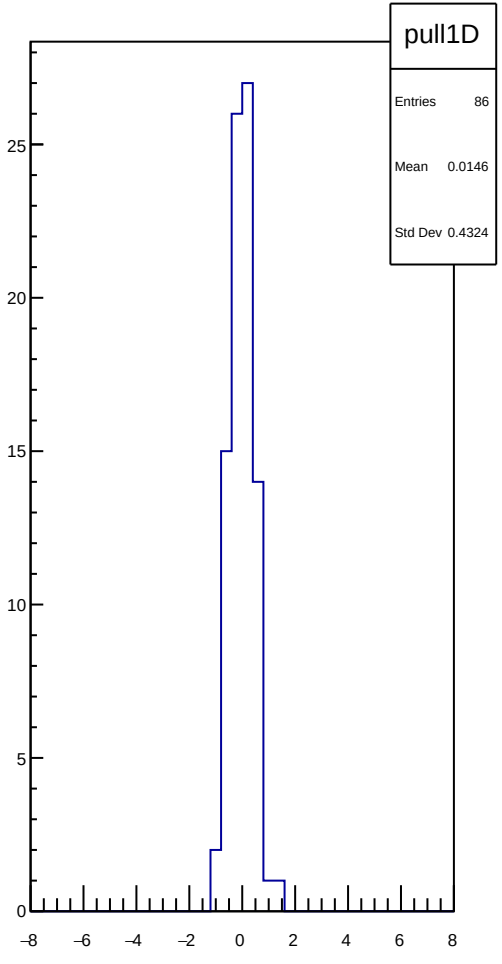

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 9.226e+04 / 85
p0 256.4 ± 0.2034
550
500
450
400
350
300
250
200
150

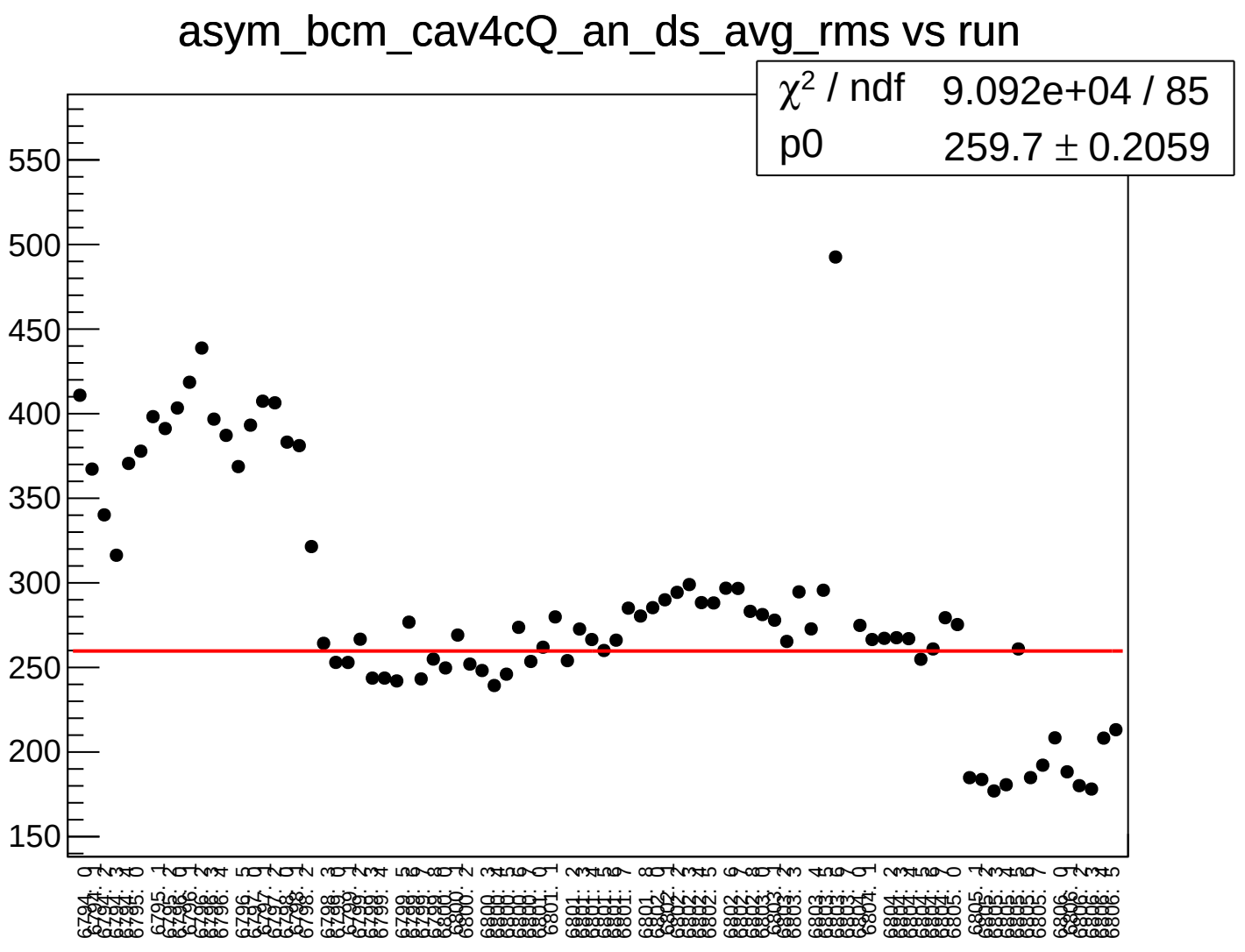

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 106.5 / 85
p0 −29.42 ± 27.66
1000
500
0
−500
−1000
pull
Entries 86
Mean −18.06
Std Dev 71.22
3
2
1
0
−1
−2
−3

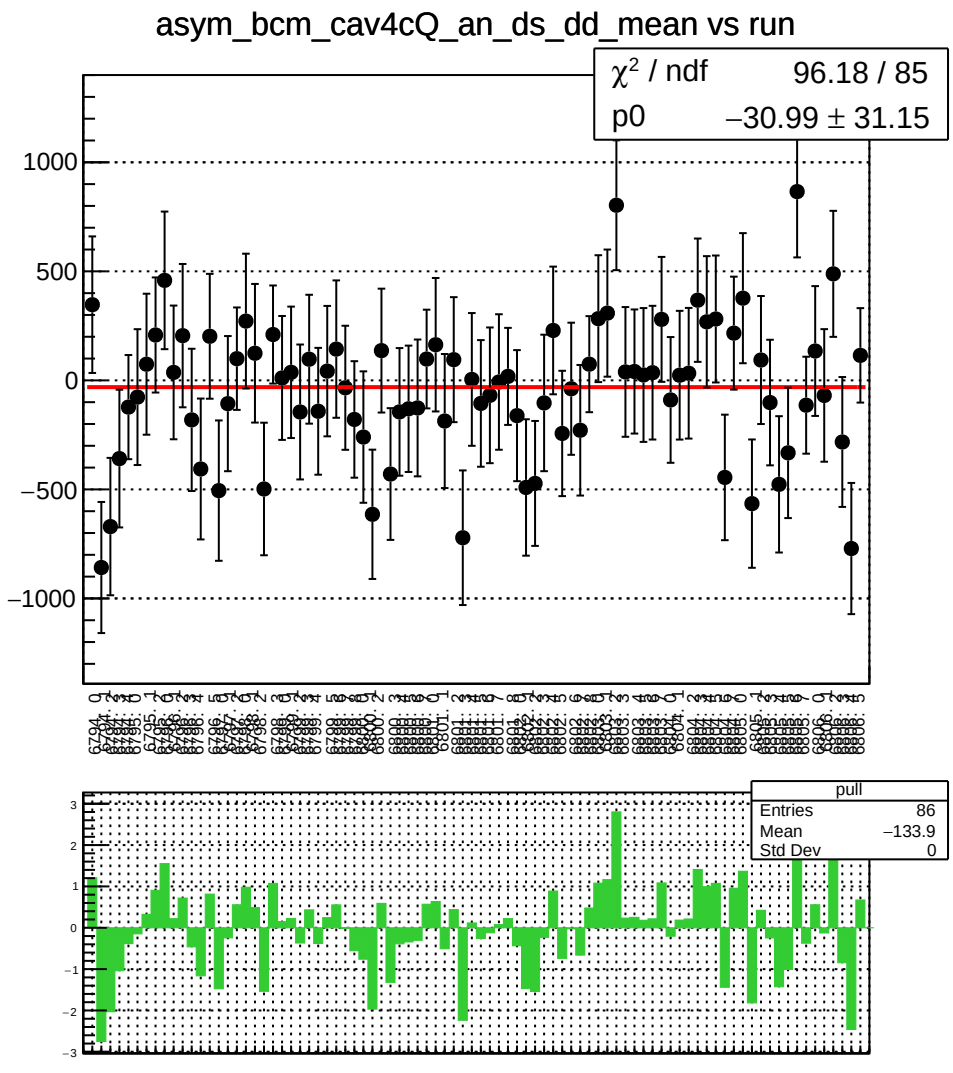

pull1D
Entries 86
Mean 0.01956
Std Dev 1.112
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

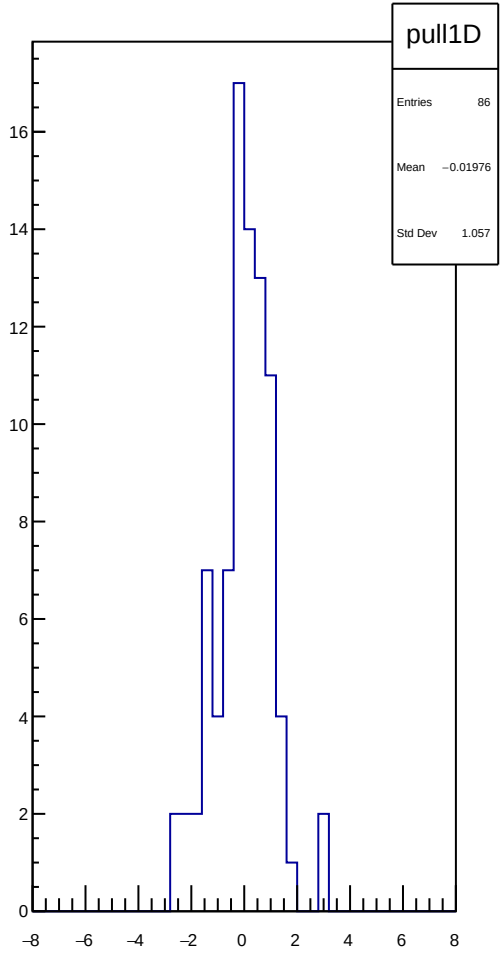

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 3301 / 85
p0 25.35 ± 0.01956
30
29
28
27
26
25
24
23
22

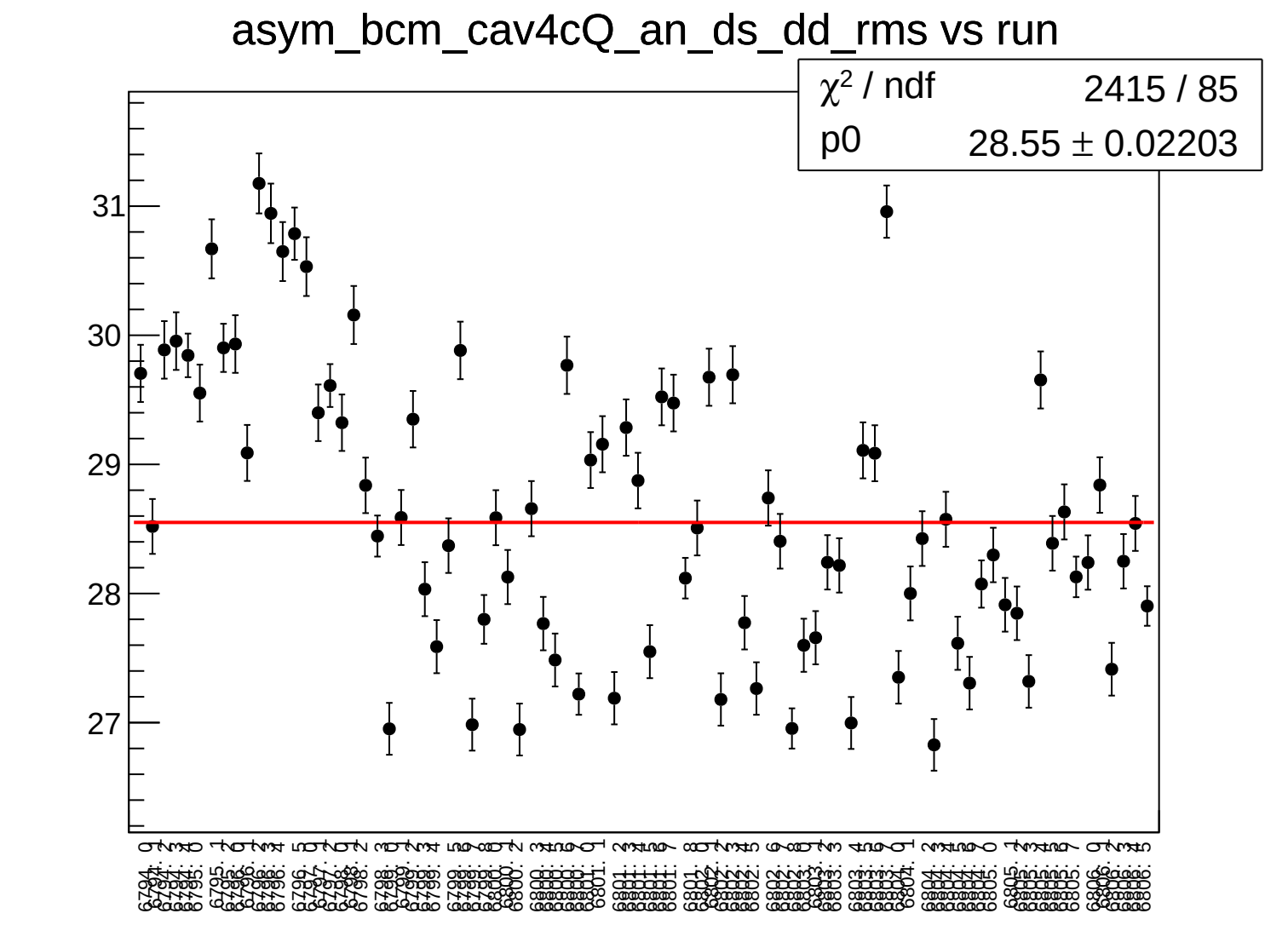

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 16.1 / 85
p0 −331.8 ± 291.2
pull
Entries 86
Mean −108.3
Std Dev 0

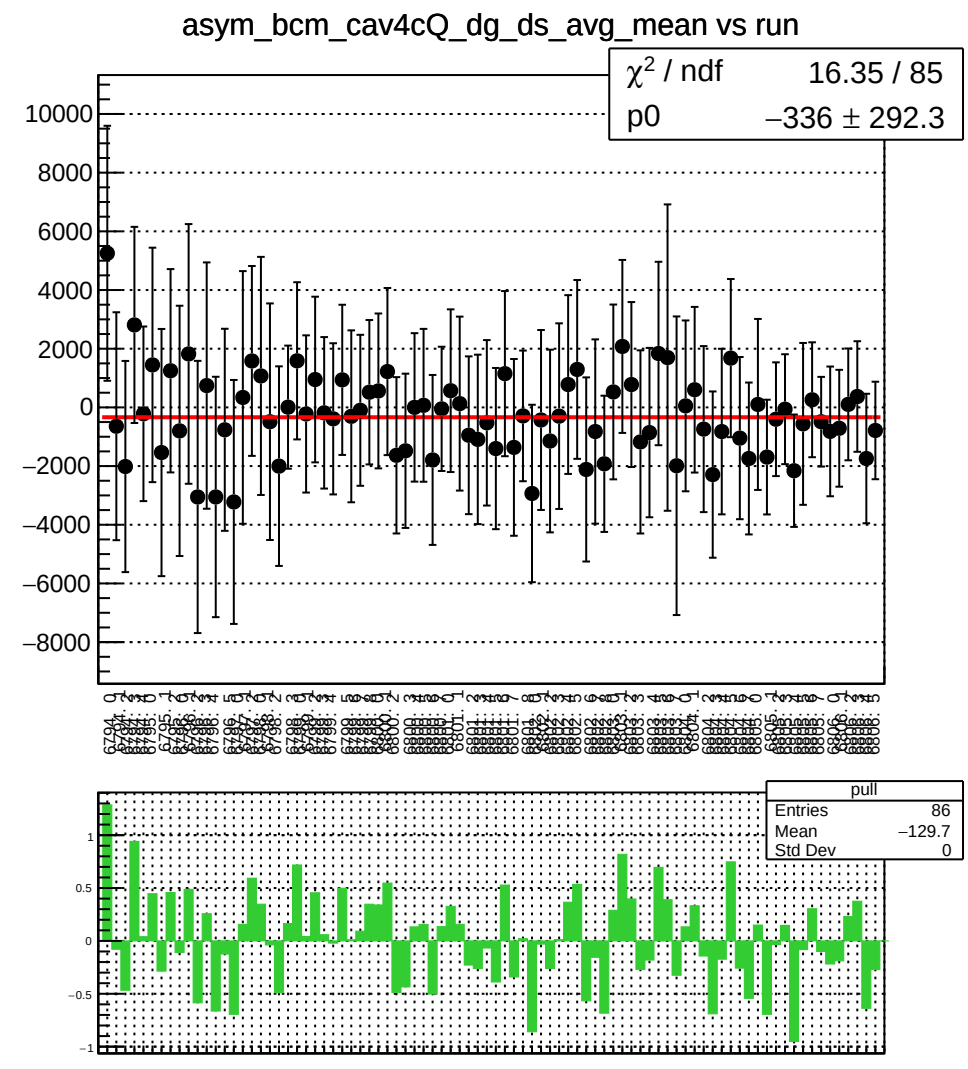

pull1D
Entries 86
Mean 0.0146
Std Dev 0.4324

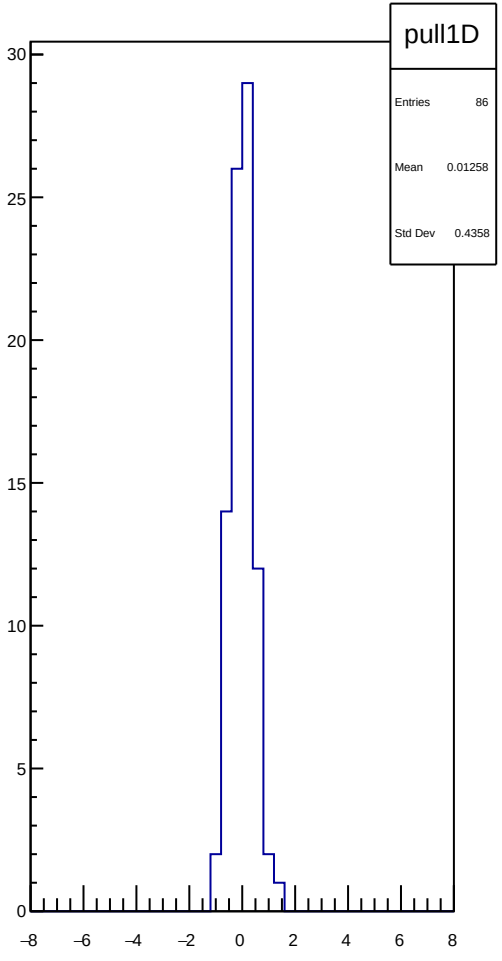

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 9.092e+04 / 85
p0 259.7 ± 0.2059
550
500
450
400
350
300
250
200
150

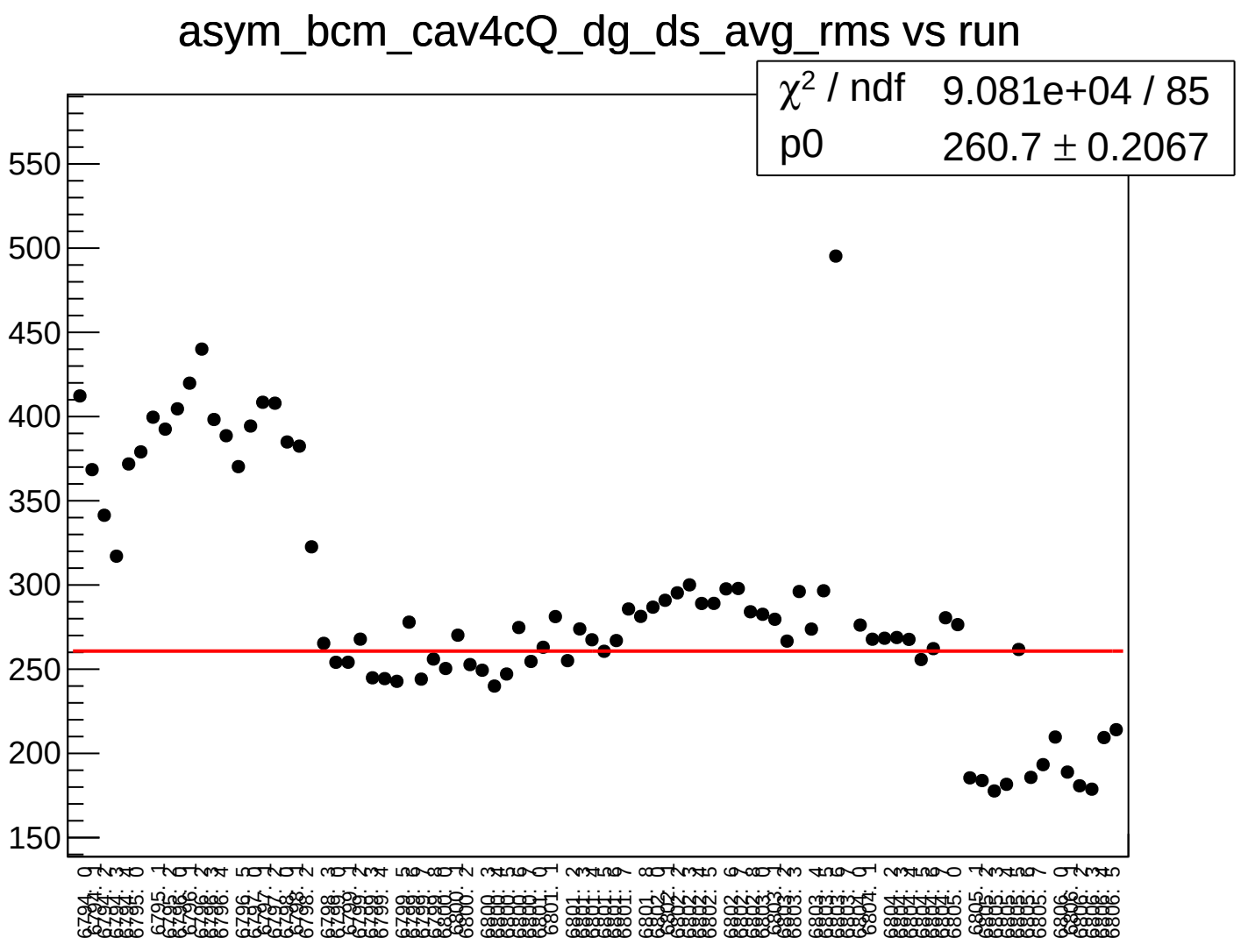

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 96.18 / 85
p0 −30.99 ± 31.15
1000
500
0
−500
−1000
pull
Entries 86
Mean −133.9
Std Dev 0
3
2
1
0
−1
−2
−3

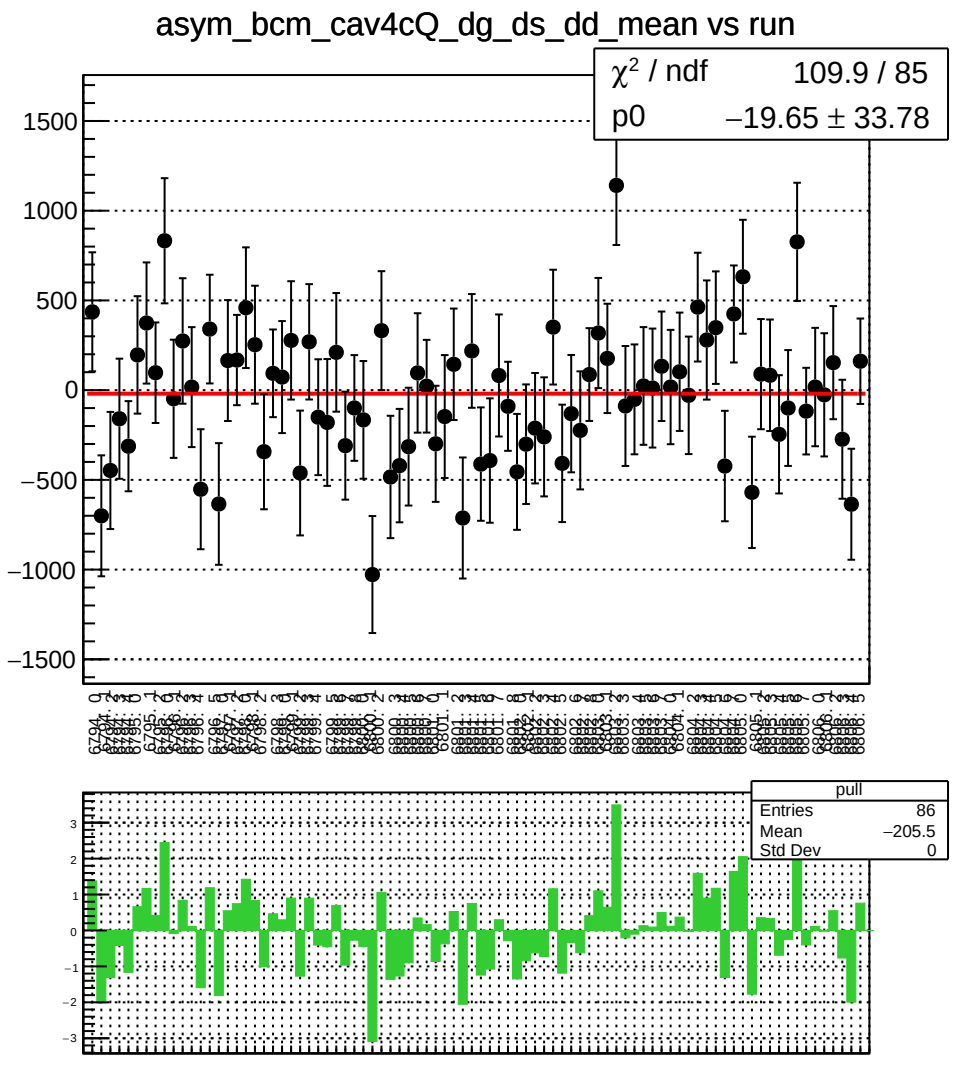

pull1D
Entries 86
Mean −0.01976
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

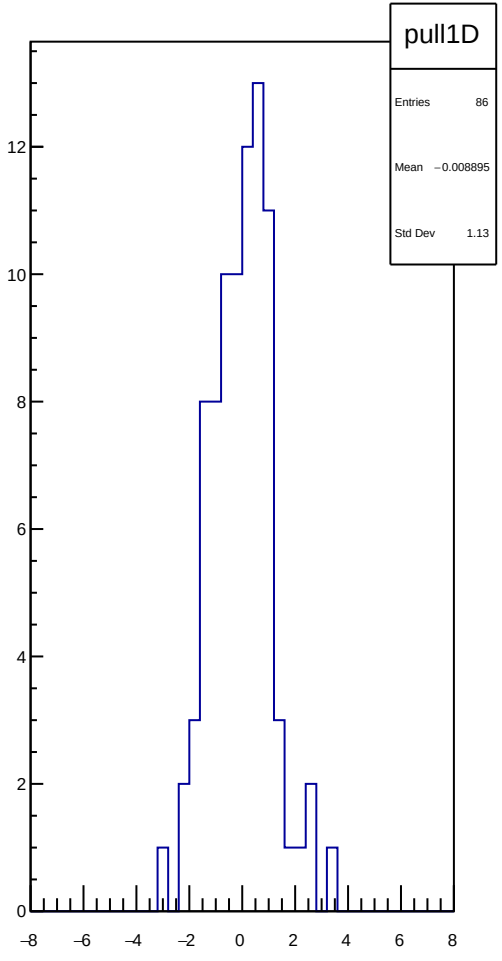

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 2415 / 85
p0 28.55 ± 0.02203
31
30
29
28
27

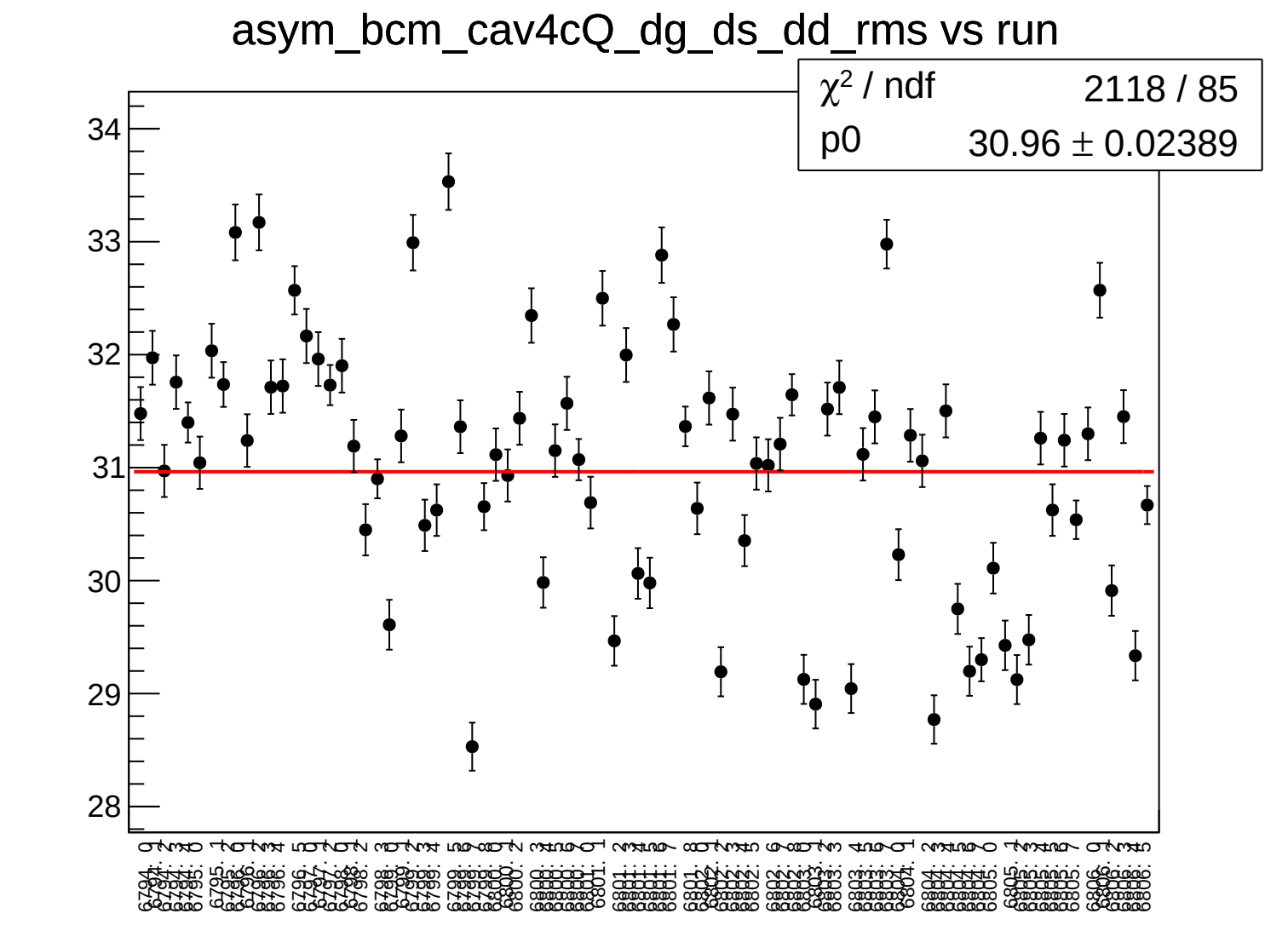

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 16.35 / 85
p0 −336 ± 292.3
pull
Entries 86
Mean −129.7
Std Dev 0

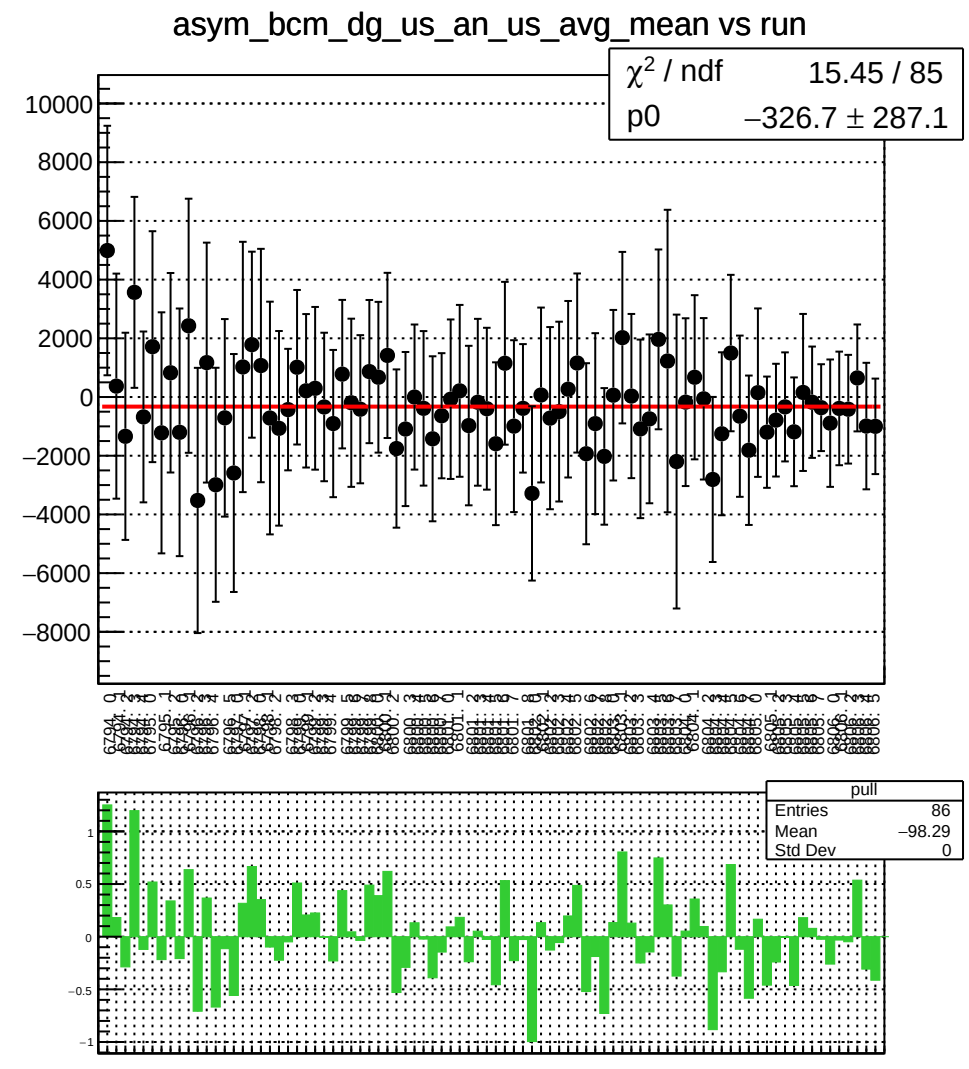

pull1D
Entries 86
Mean 0.01258
Std Dev 0.4358

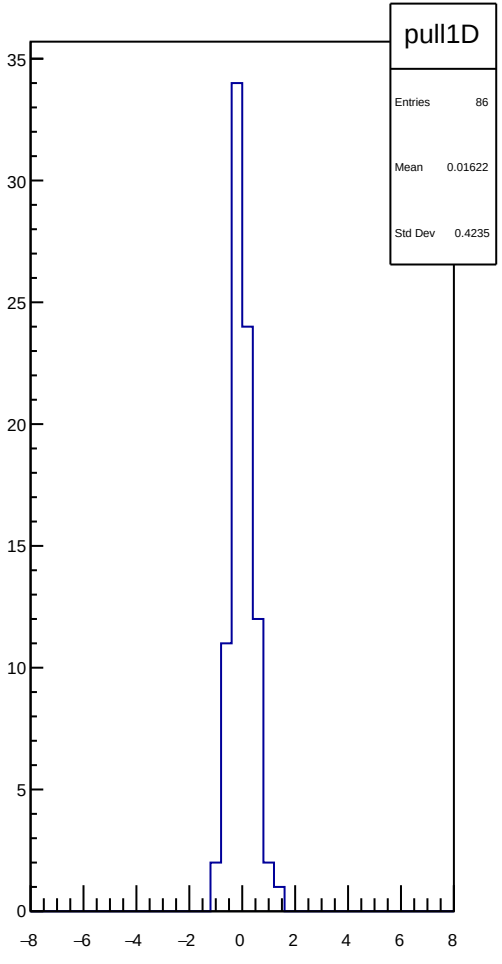

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 9.081e+04 / 85
p0 260.7 ± 0.2067
550
500
450
400
350
300
250
200
150

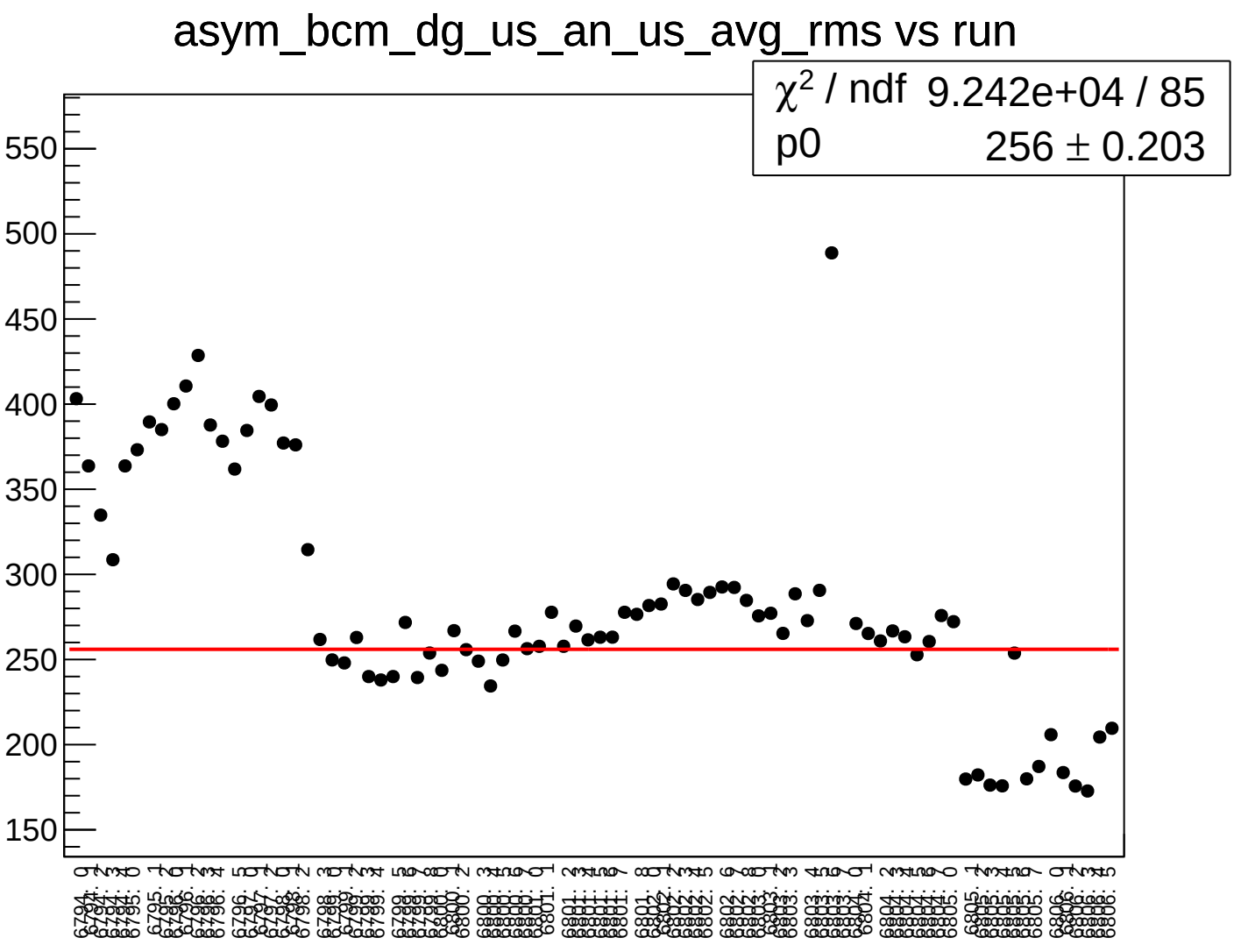

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 109.9 / 85
p0 −19.65 ± 33.78
pull
Entries 86
Mean −205.5
Std Dev 0

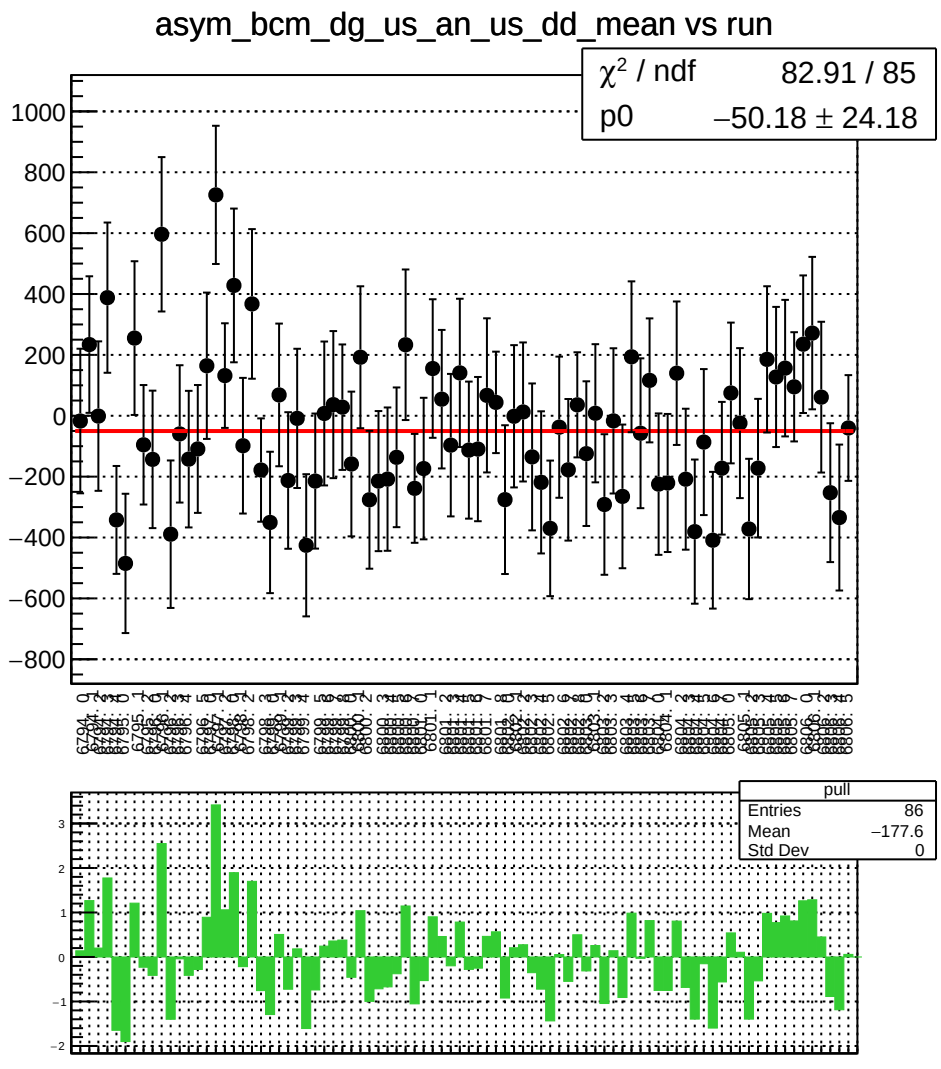

pull1D
Entries 86
Mean −0.008895
Std Dev 1.13

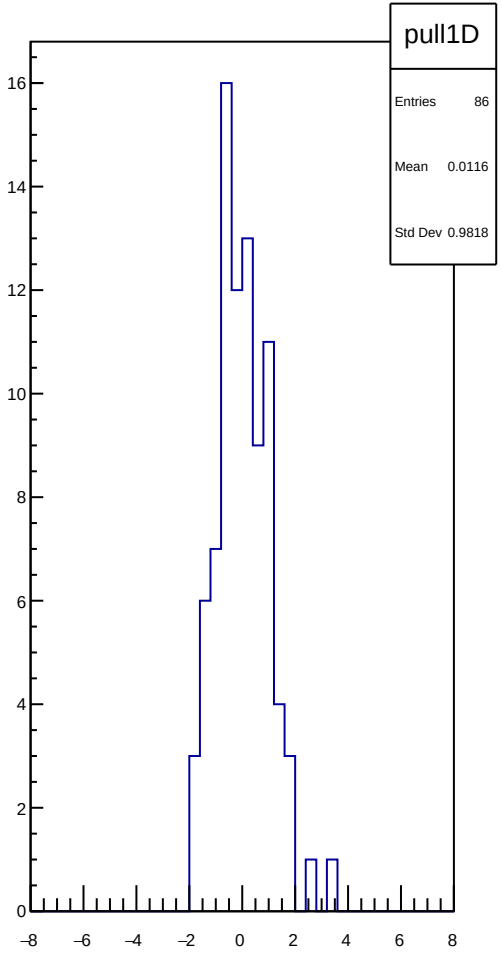

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 2118 / 85
p0 30.96 ± 0.02389
34
33
32
31
30
29
28

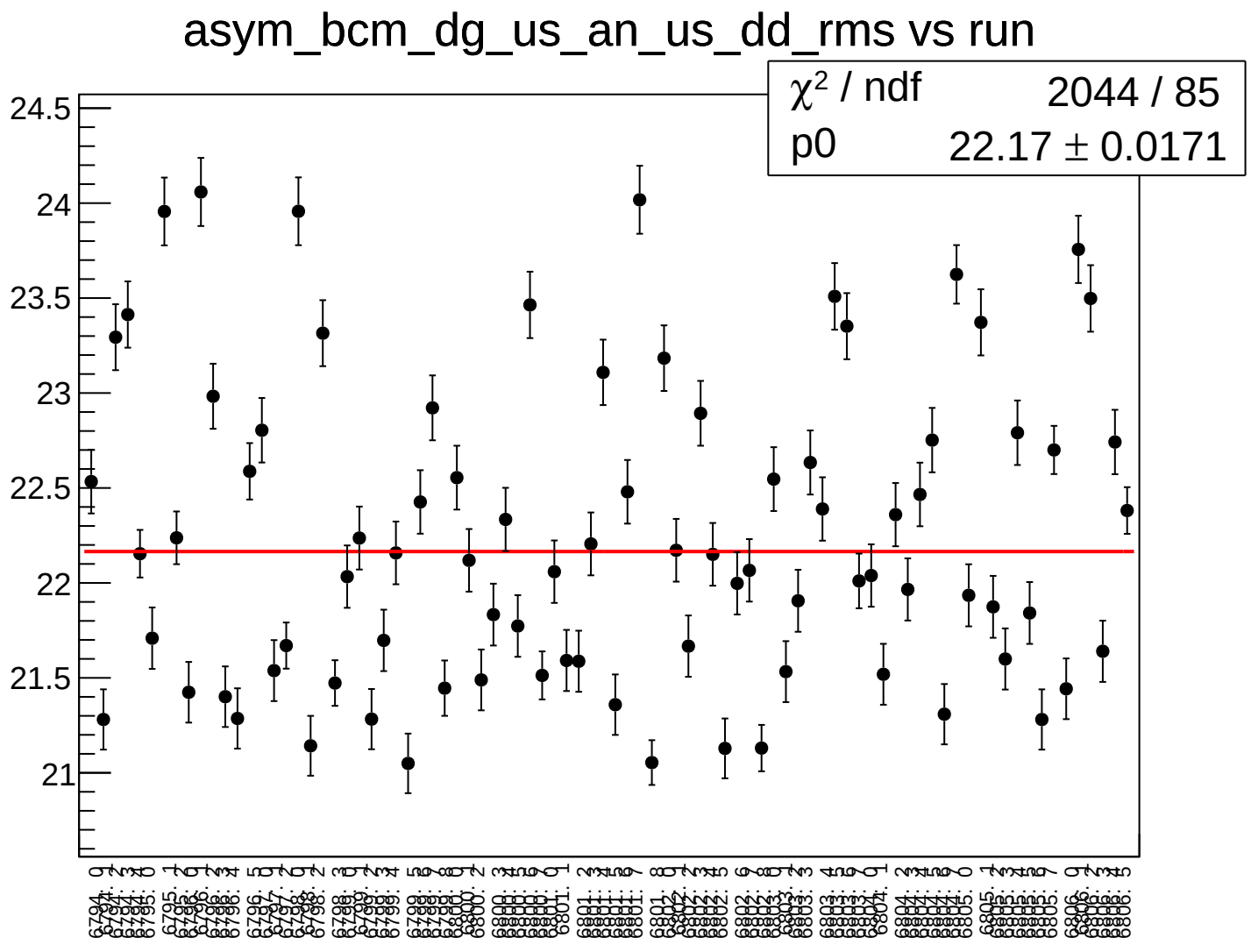

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 15.45 / 85
p0 −326.7 ± 287.1
pull
Entries 86
Mean −98.29
Std Dev 0

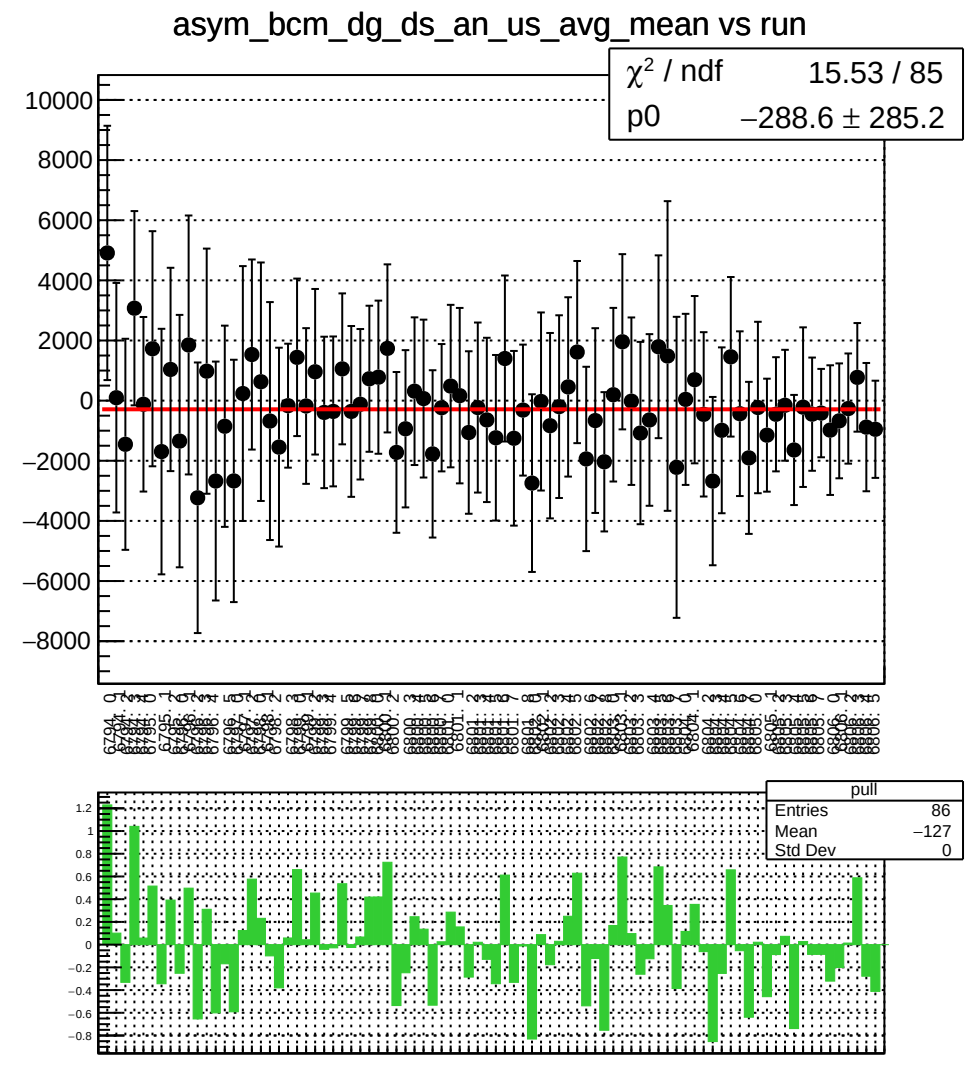

pull1D
Entries 86
Mean 0.01622
Std Dev 0.4235

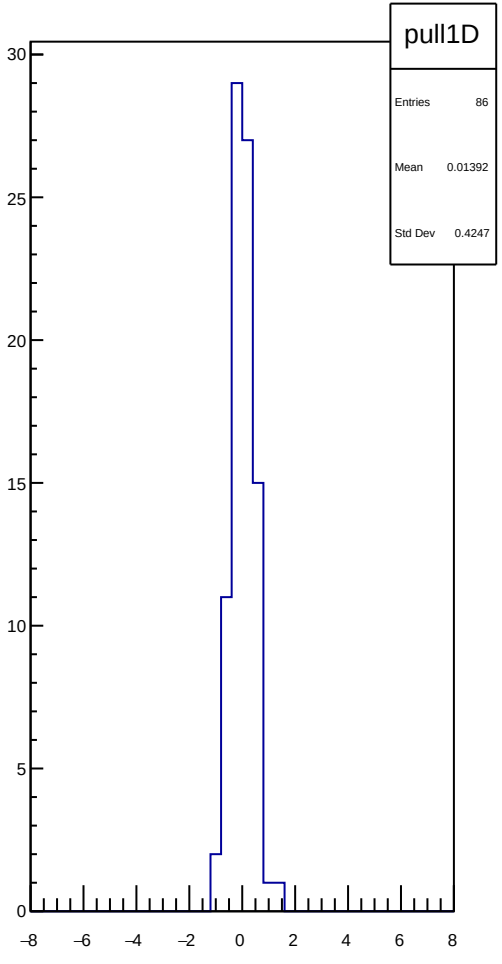

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 9.242e+04 / 85
p0 256 ± 0.203
550
500
450
400
350
300
250
200
150

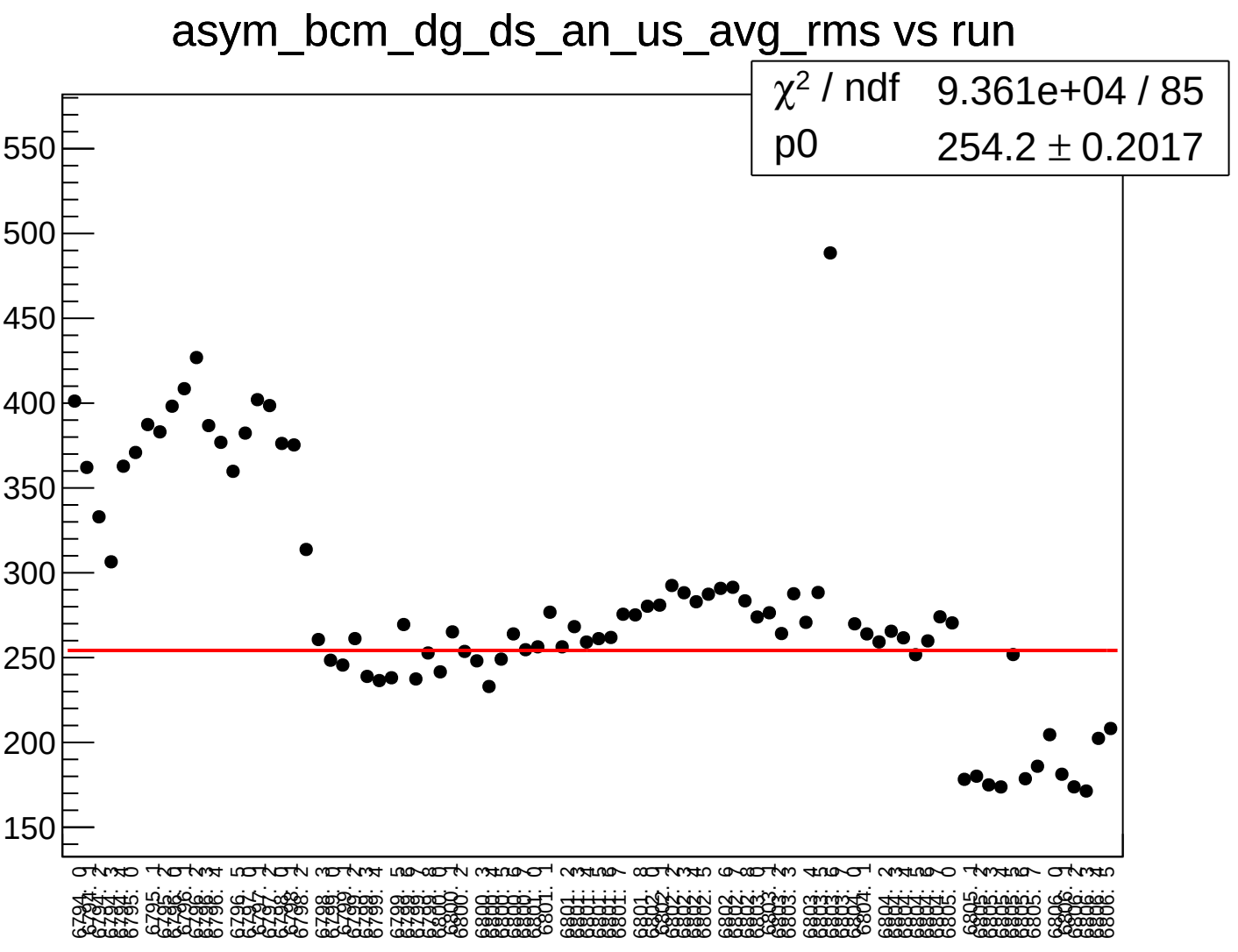

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 82.91 / 85
p0 −50.18 ± 24.18
pull
Entries 86
Mean −177.6
Std Dev 0

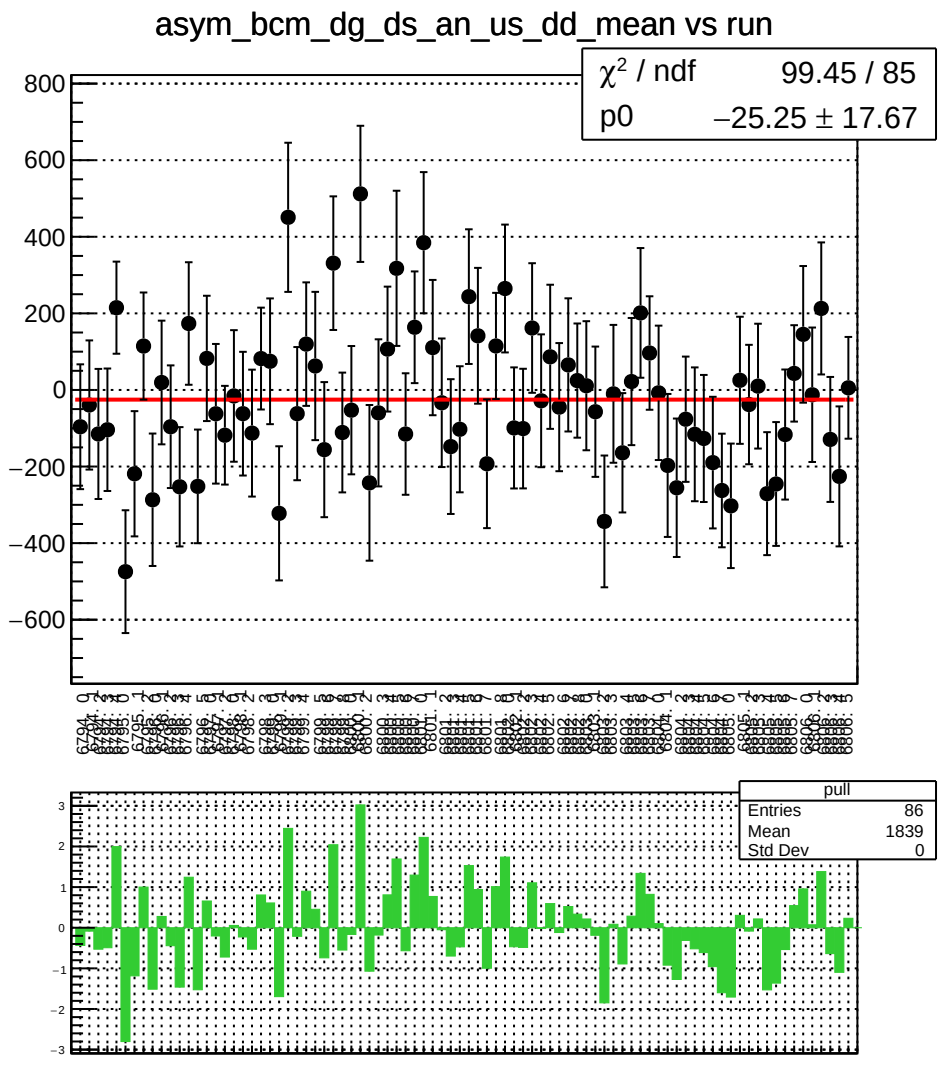

pull1D
Entries 86
Mean 0.0116
Std Dev 0.9818

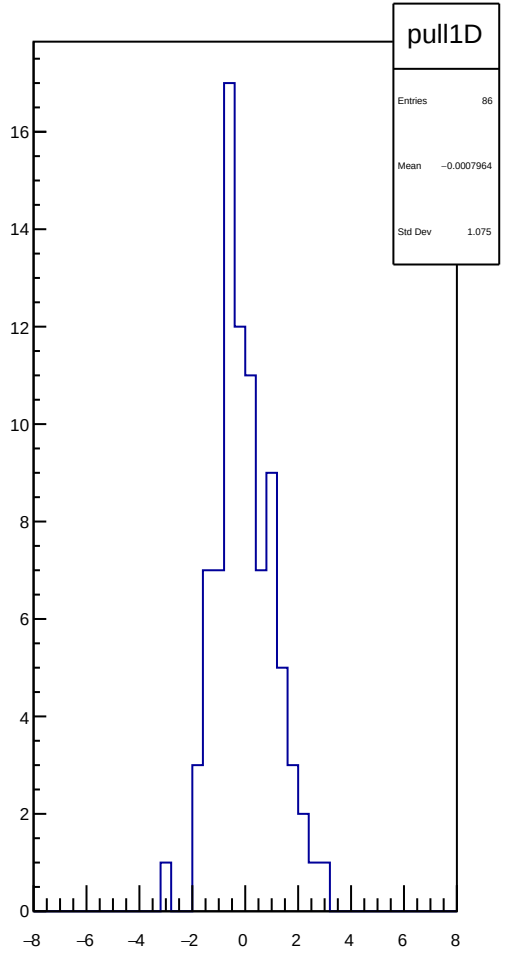

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 2044 / 85
p0 22.17 ± 0.0171
24.5
24
23.5
23
22.5
22
21.5
21

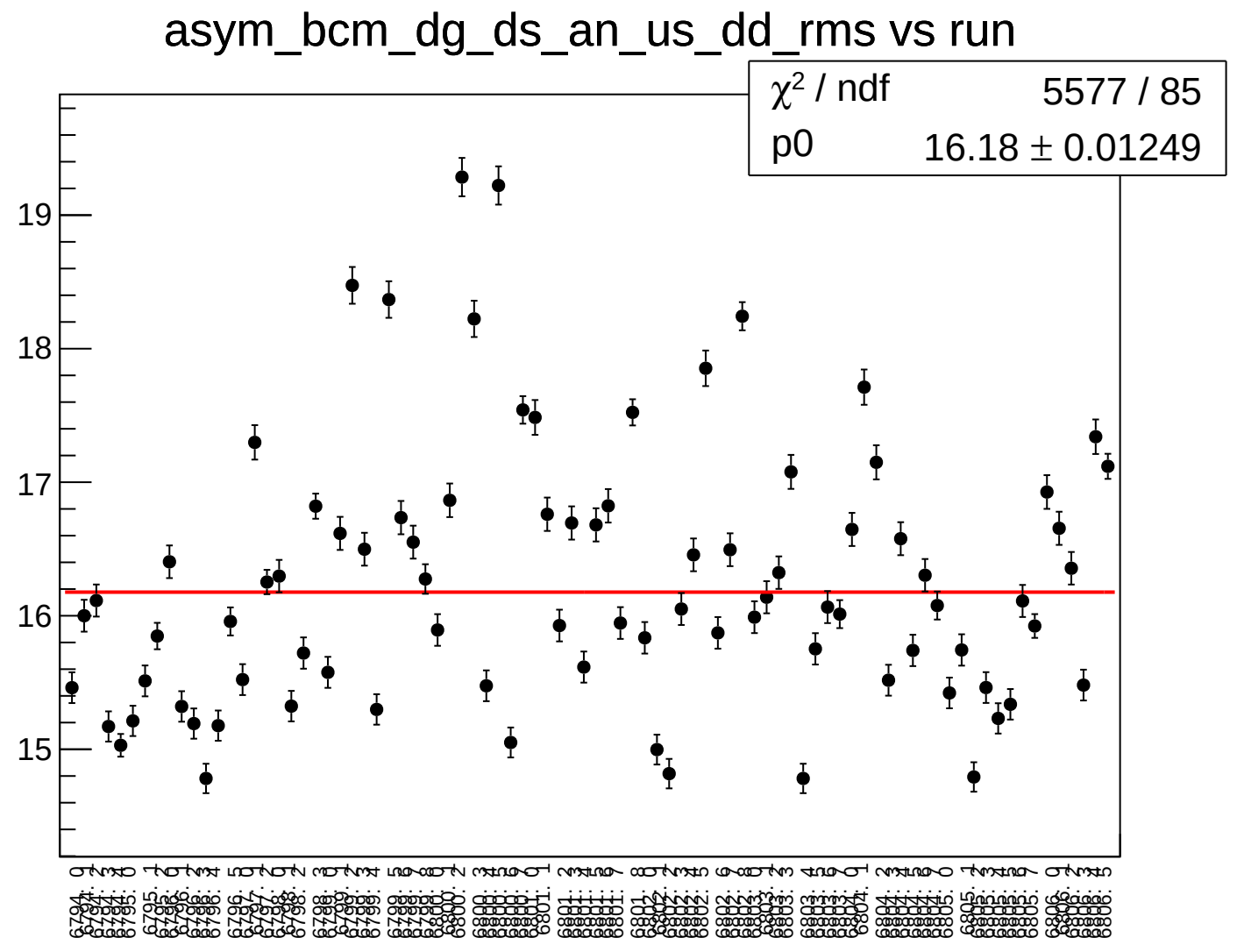

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 15.53 / 85
p0 −288.6 ± 285.2
pull
Entries 86
Mean −127
Std Dev 0

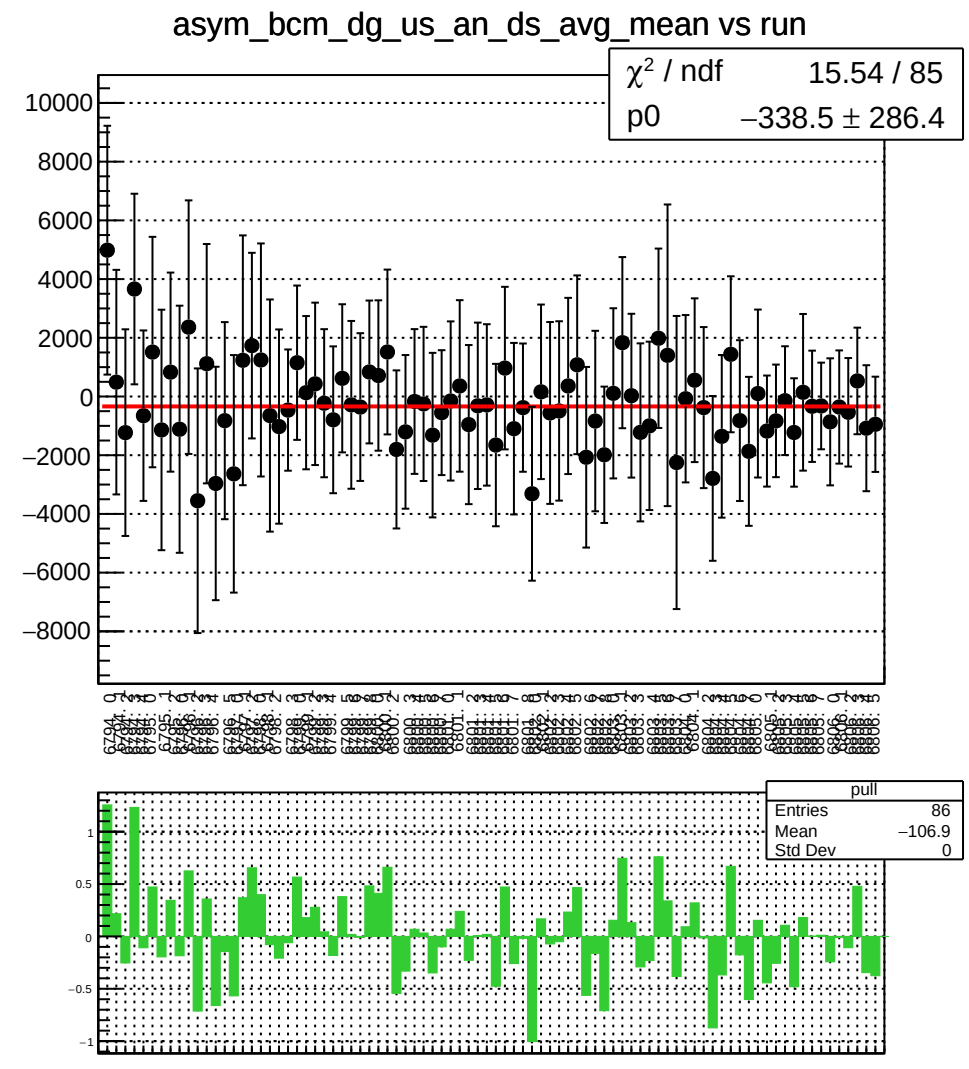

pull1D
Entries 86
Mean 0.01392
Std Dev 0.4247

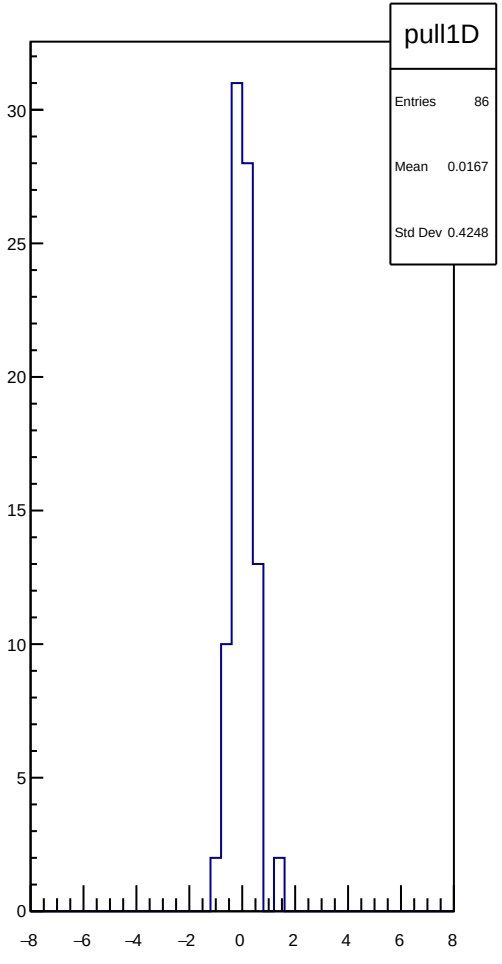

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 9.361e+04 / 85
p0 254.2 ± 0.2017
550
500
450
400
350
300
250
200
150

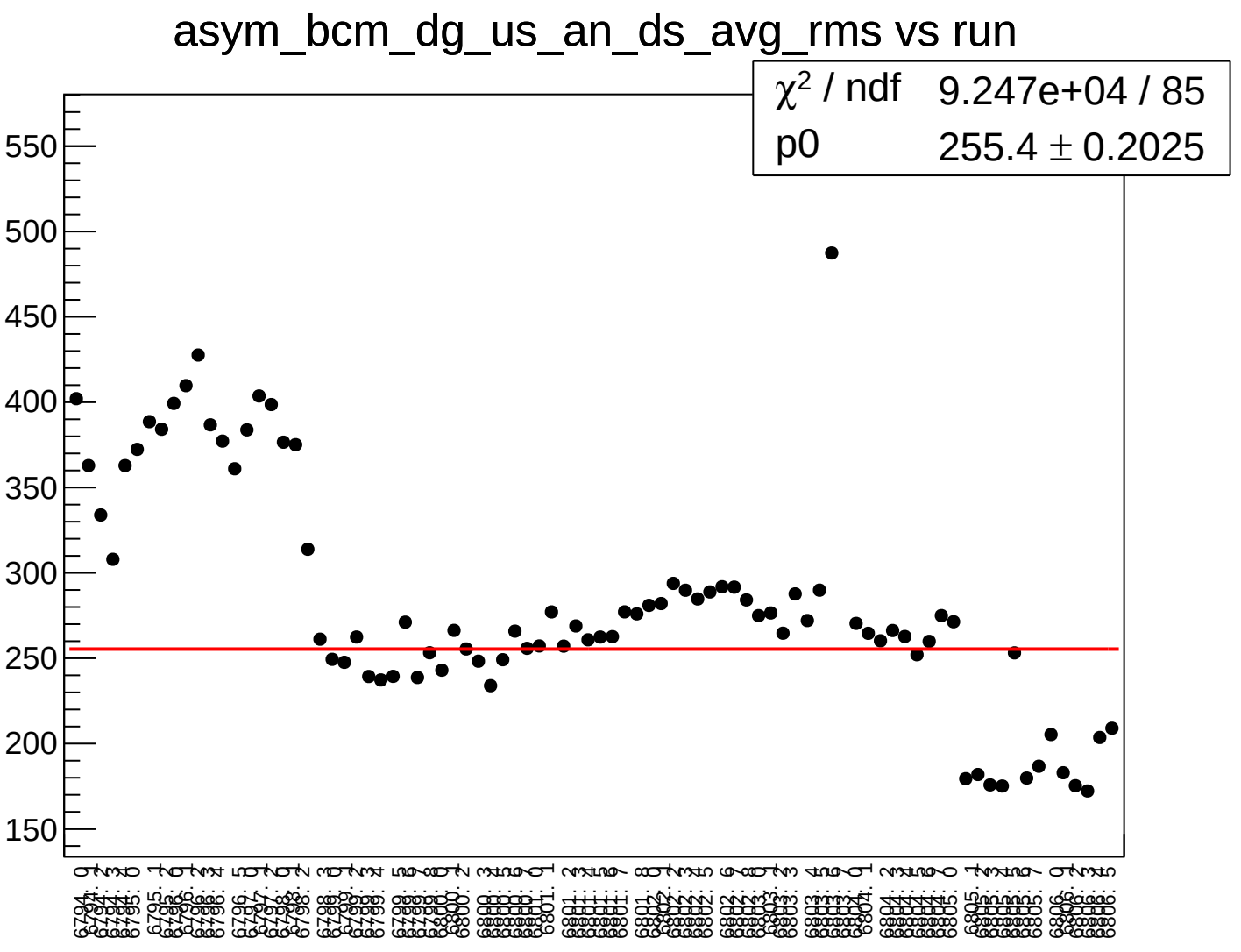

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 99.45 / 85
p0 −25.25 ± 17.67
800
600
400
200
0
−200
−400
−600
pull
Entries 86
Mean 1839
Std Dev 0
3
2
1
0
−1
−2
−3

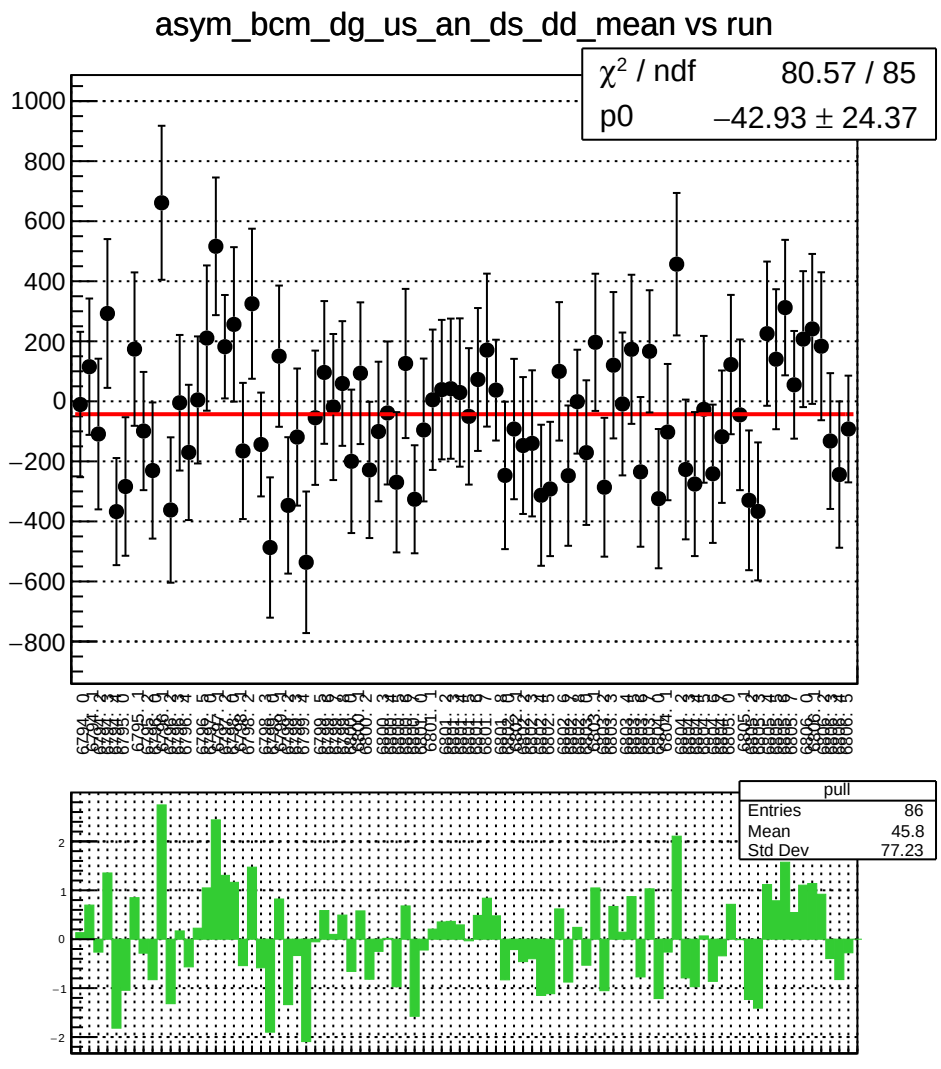

pull1D
Entries 86
Mean −0.0007964
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

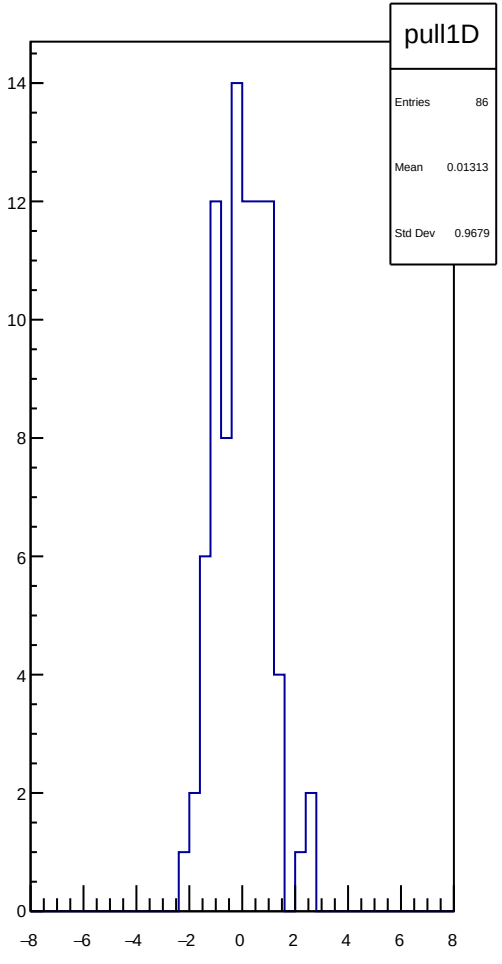

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 5577 / 85
p0 16.18 ± 0.01249
19
18
17
16
15

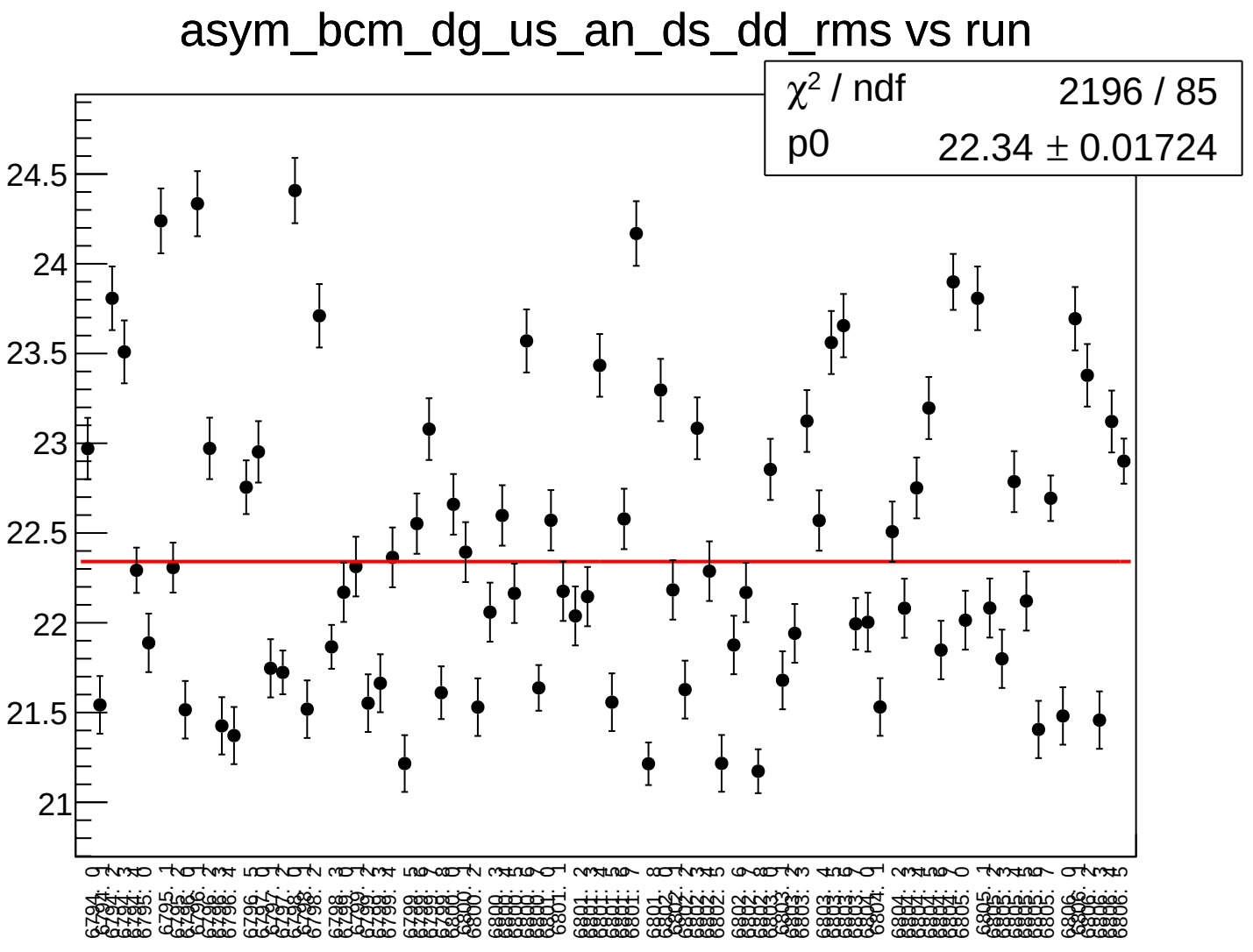

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 15.54 / 85
p0 −338.5 ± 286.4
pull
Entries 86
Mean −106.9
Std Dev 0

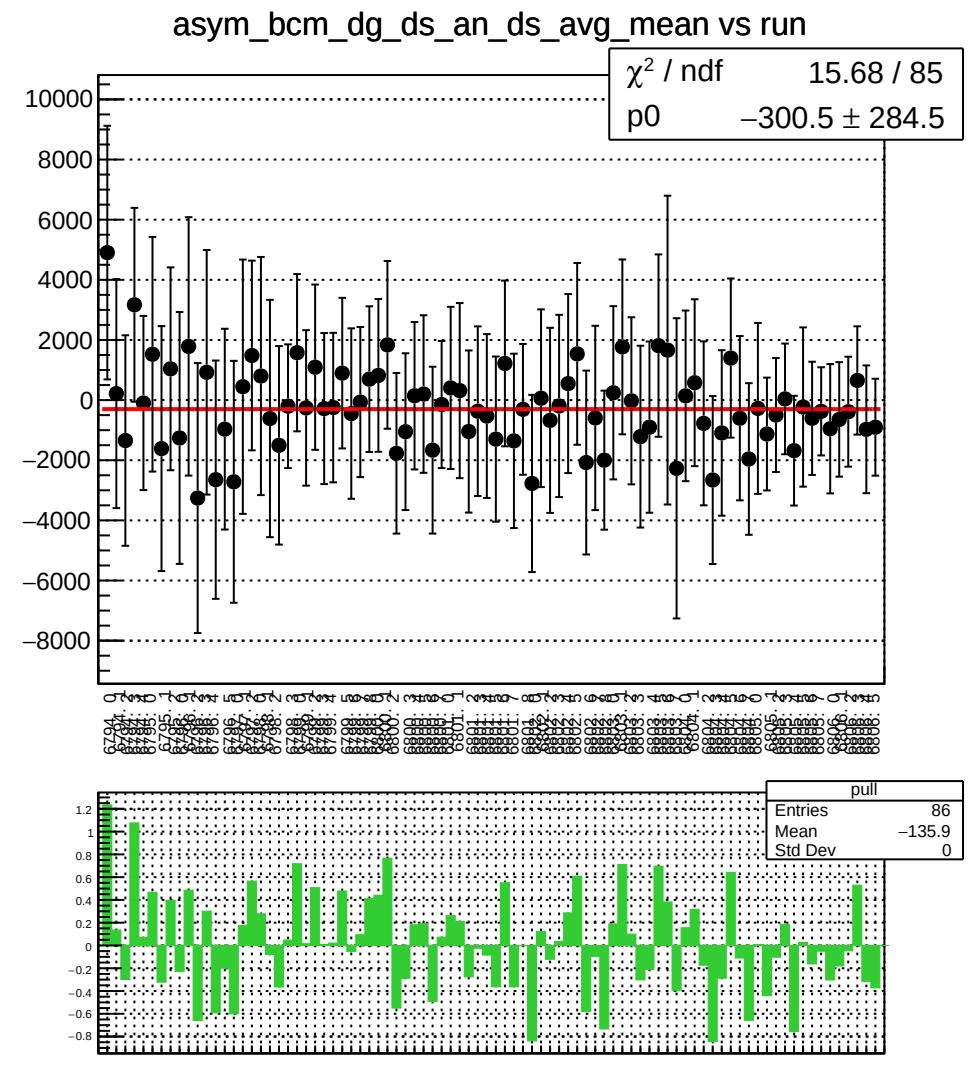

pull1D
Entries 86
Mean 0.0167
Std Dev 0.4248

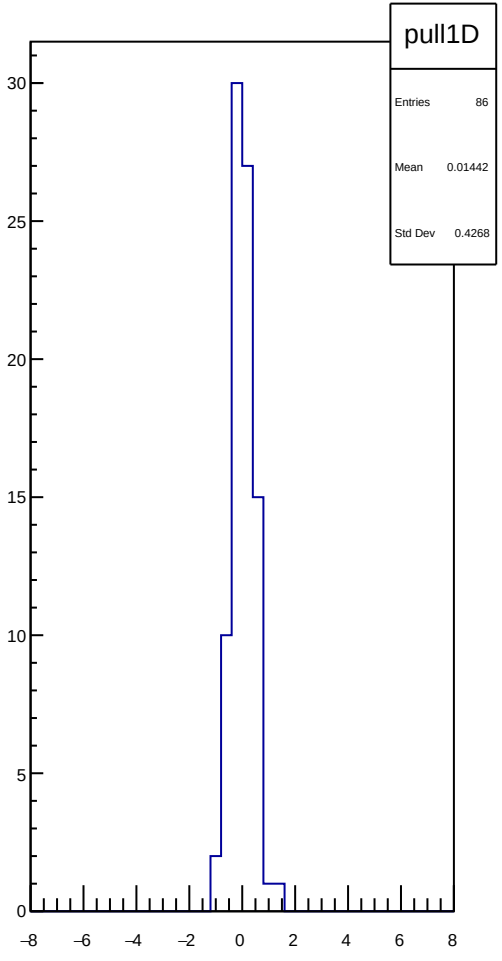

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 9.247e+04 / 85
p0 255.4 ± 0.2025
550
500
450
400
350
300
250
200
150

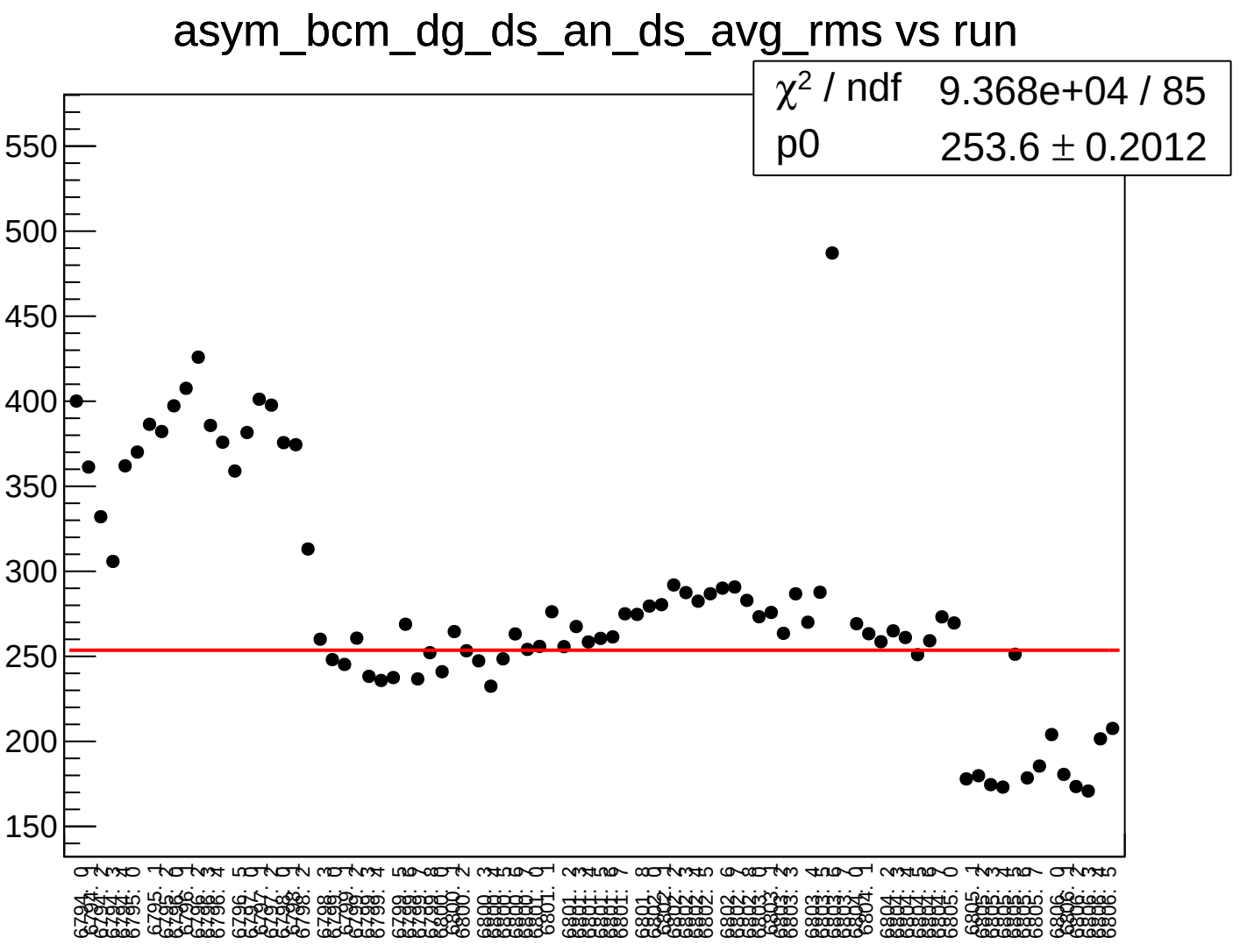

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 80.57 / 85
p0 −42.93 ± 24.37
pull
Entries 86
Mean 45.8
Std Dev 77.23

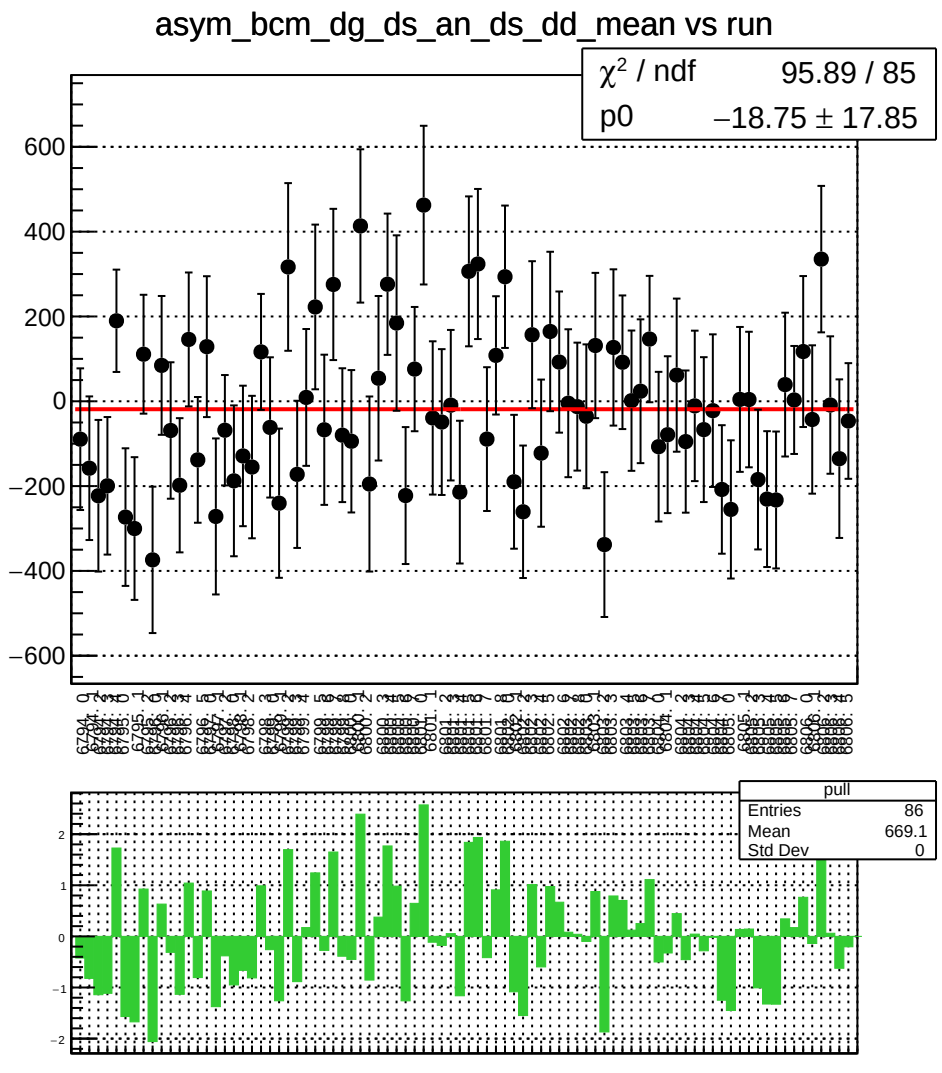

pull1D
Entries 86
Mean 0.01313
Std Dev 0.9679

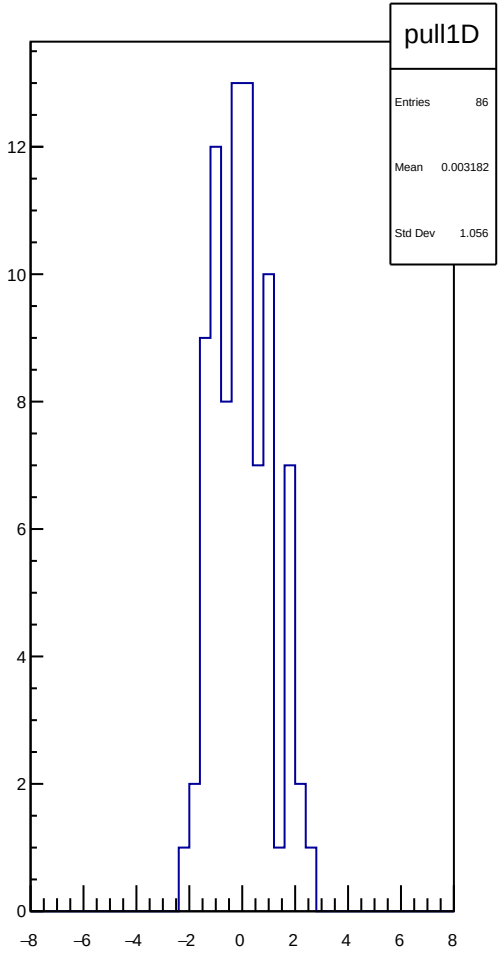

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 2196 / 85
p0 22.34 ± 0.01724
24.5
24
23.5
23
22.5
22
21.5
21

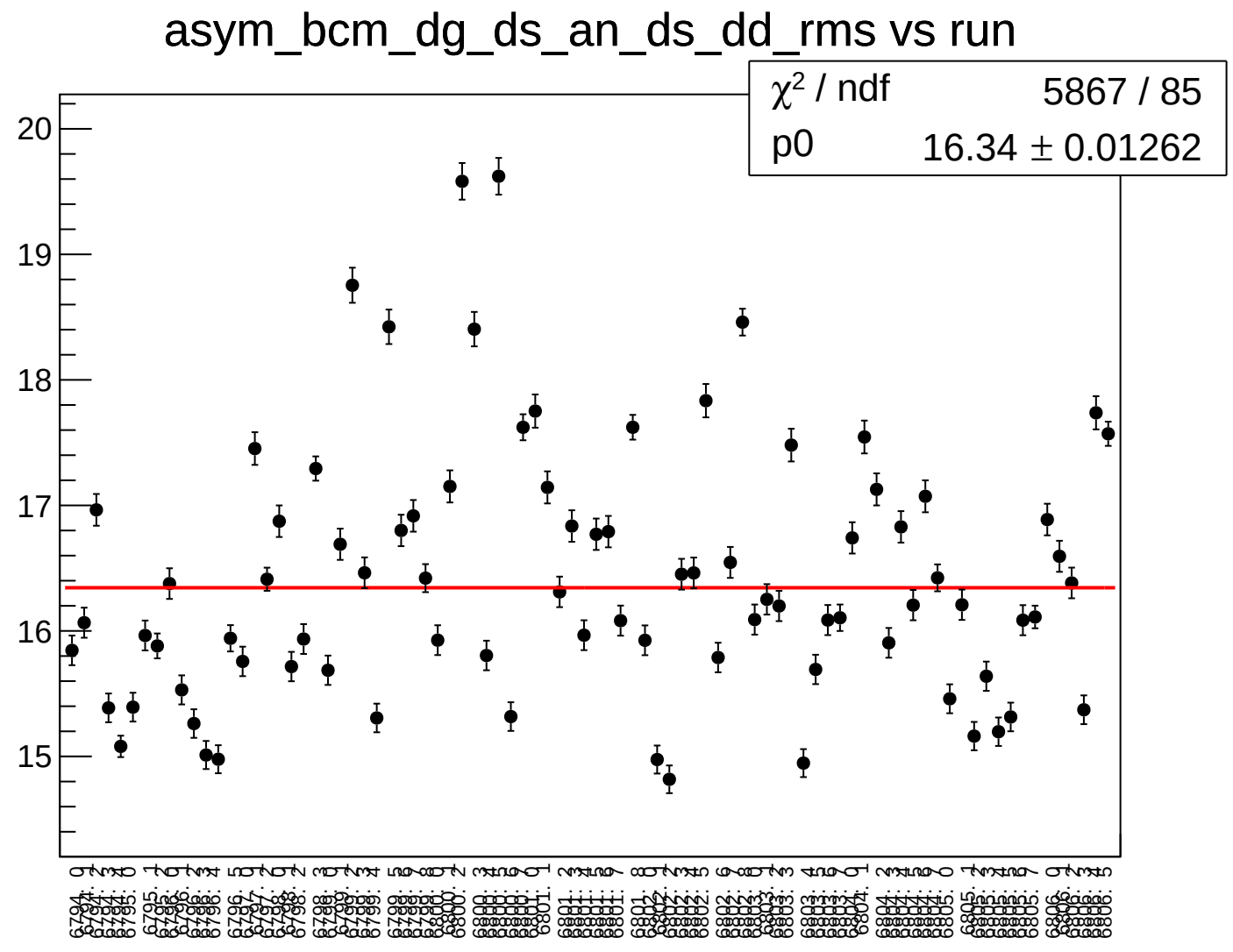

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 15.68 / 85
p0 −300.5 ± 284.5
pull
Entries 86
Mean −135.9
Std Dev 0

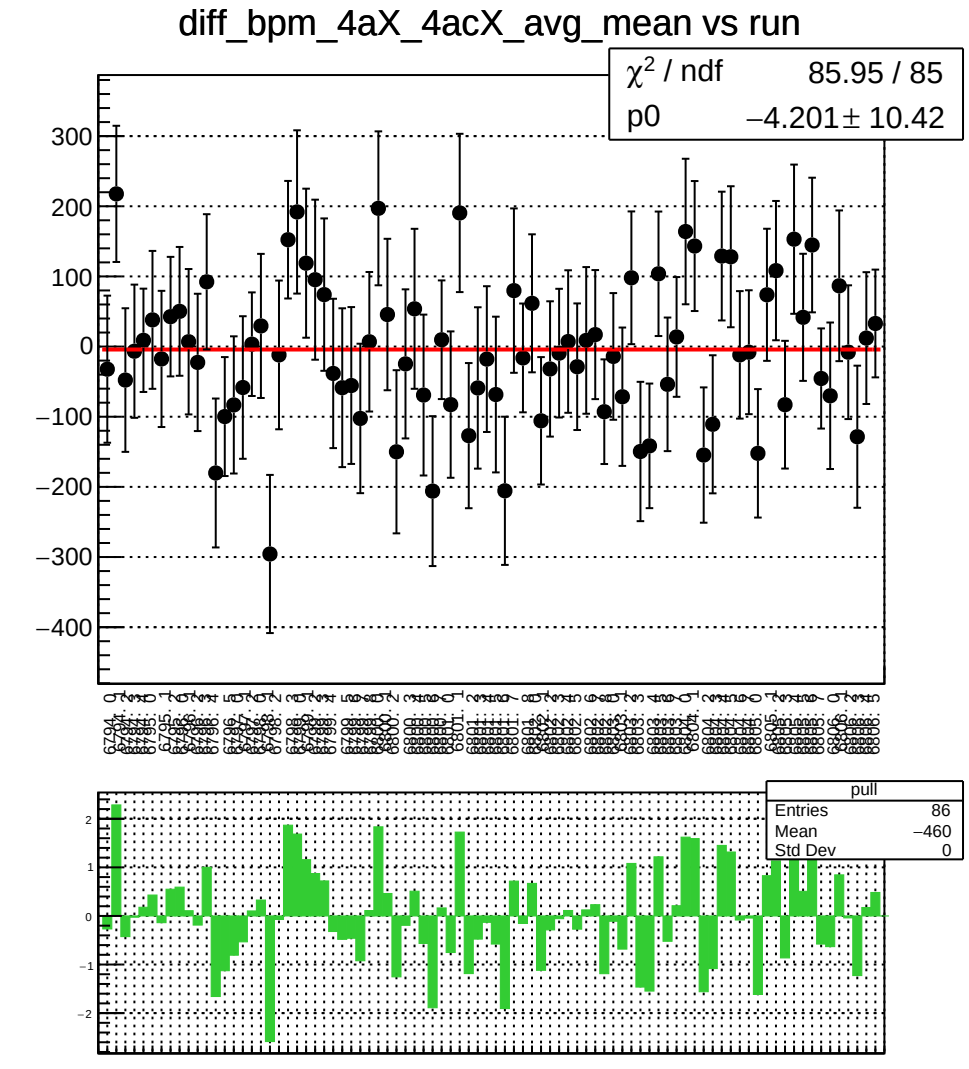

pull1D
Entries 86
Mean 0.01442
Std Dev 0.4268

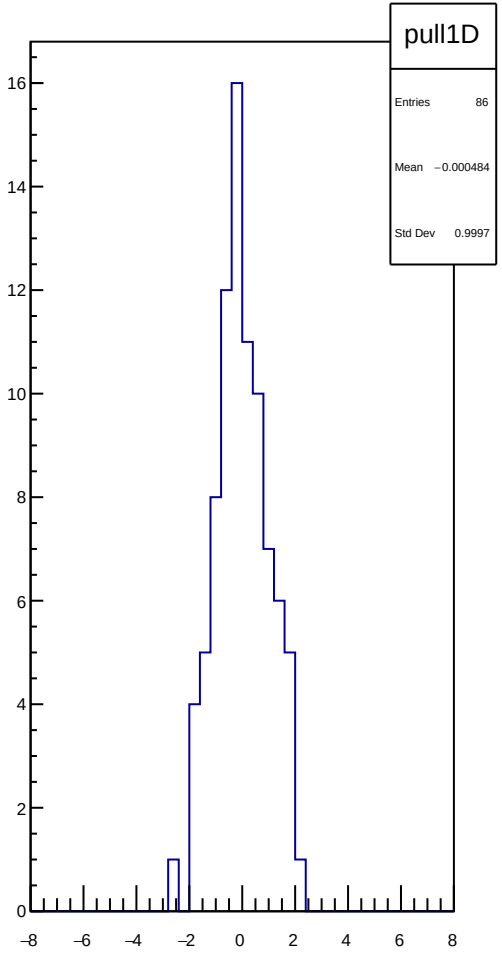

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 9.368e+04 / 85
p0 253.6 ± 0.2012
550
500
450
400
350
300
250
200
150

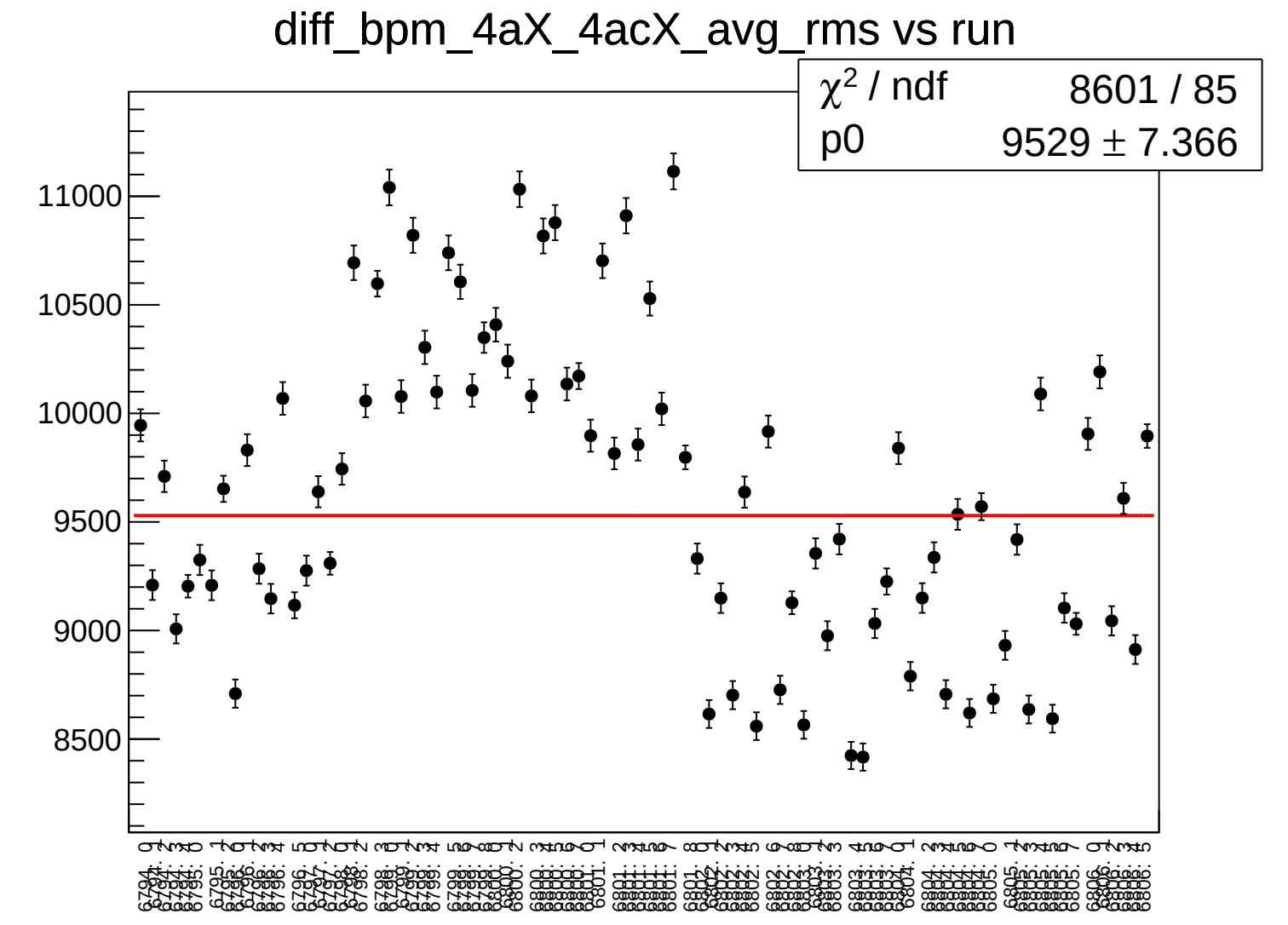

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 95.89 / 85
p0 −18.75 ± 17.85
pull
Entries 86
Mean 669.1
Std Dev 0

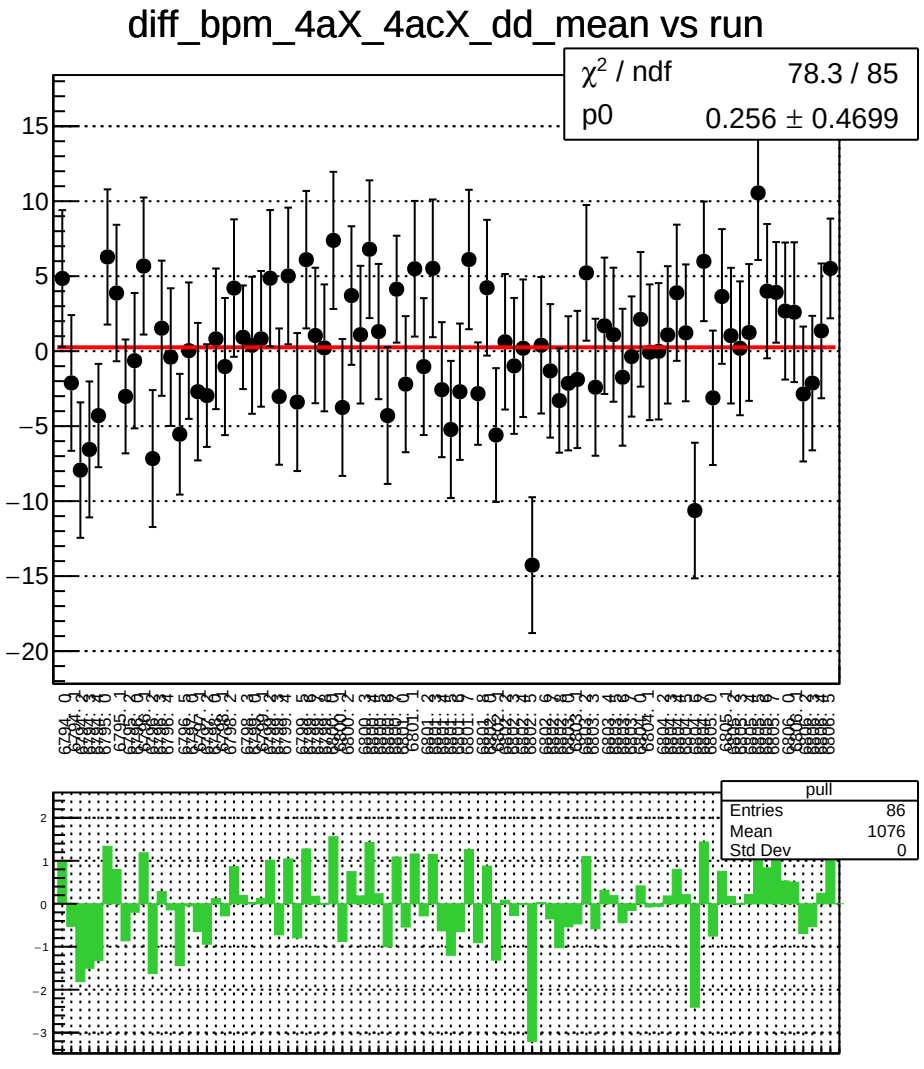

pull1D
Entries 86
Mean 0.003182
Std Dev 1.056

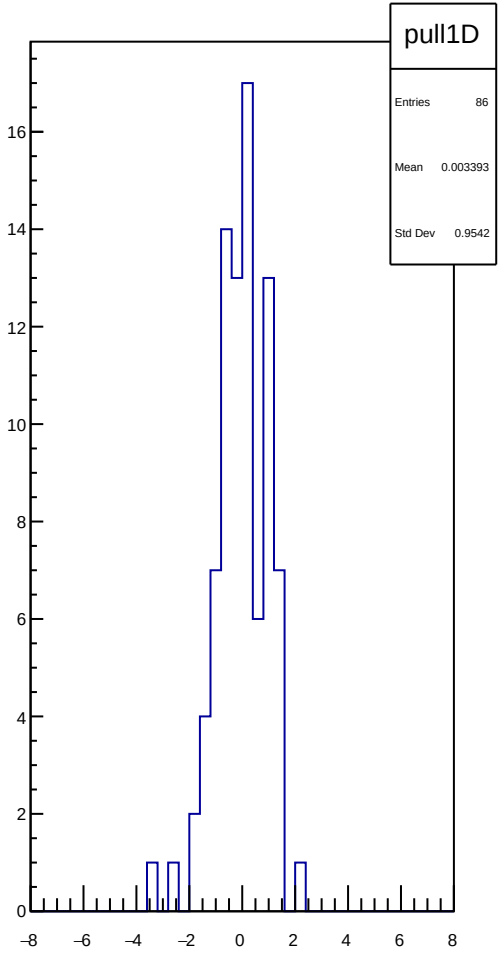

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 5867 / 85
p0 16.34 ± 0.01262
20
19
18
17
16
15

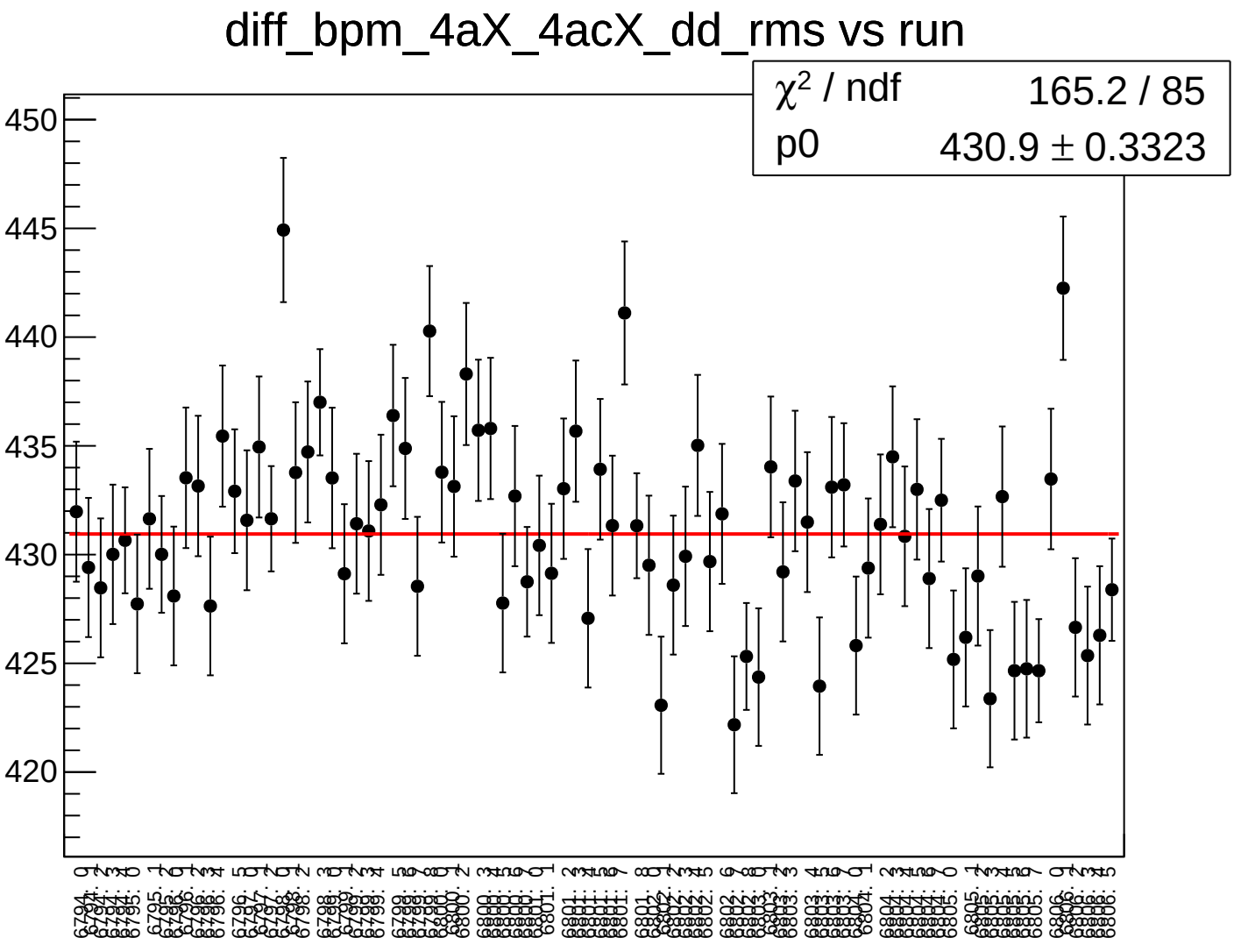

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 85.95 / 85
p0 −4.201 ± 10.42
pull
Entries 86
Mean −460
Std Dev 0

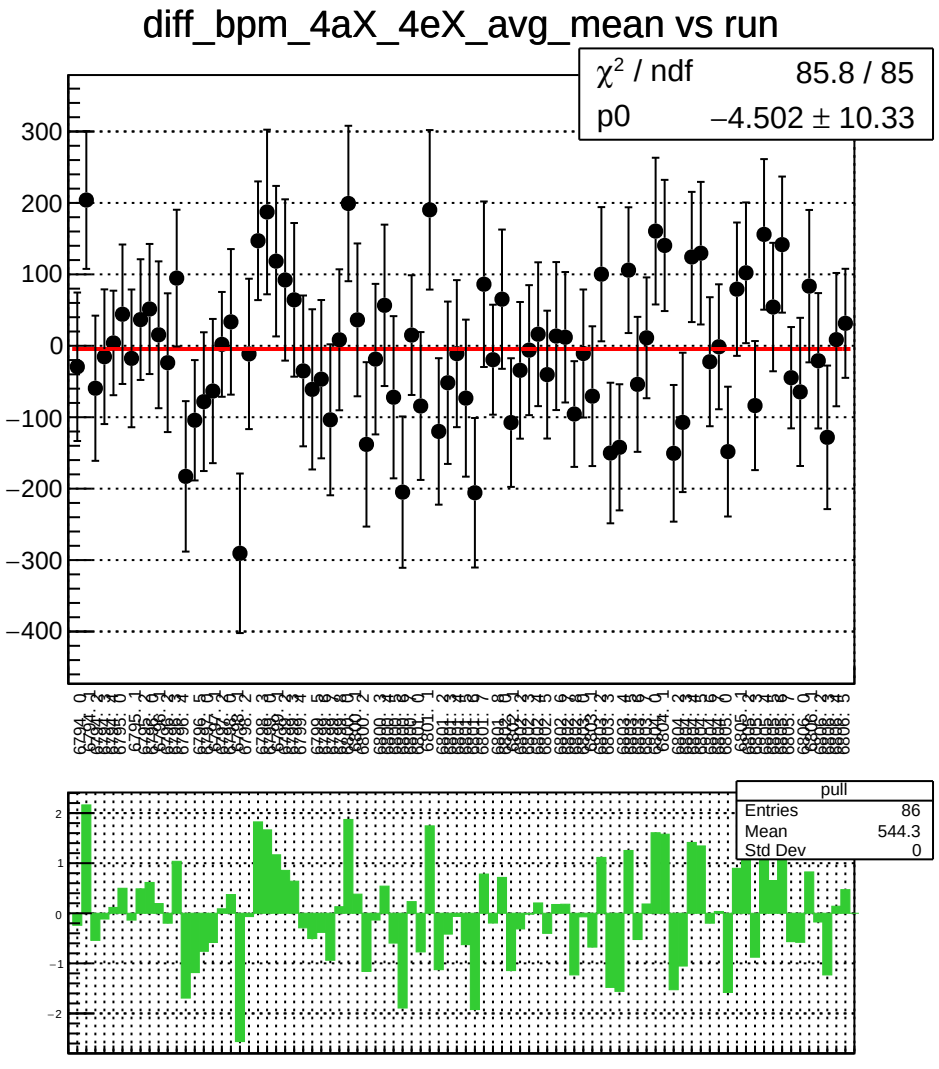

pull1D
Entries 86
Mean −0.000484
Std Dev 0.9997

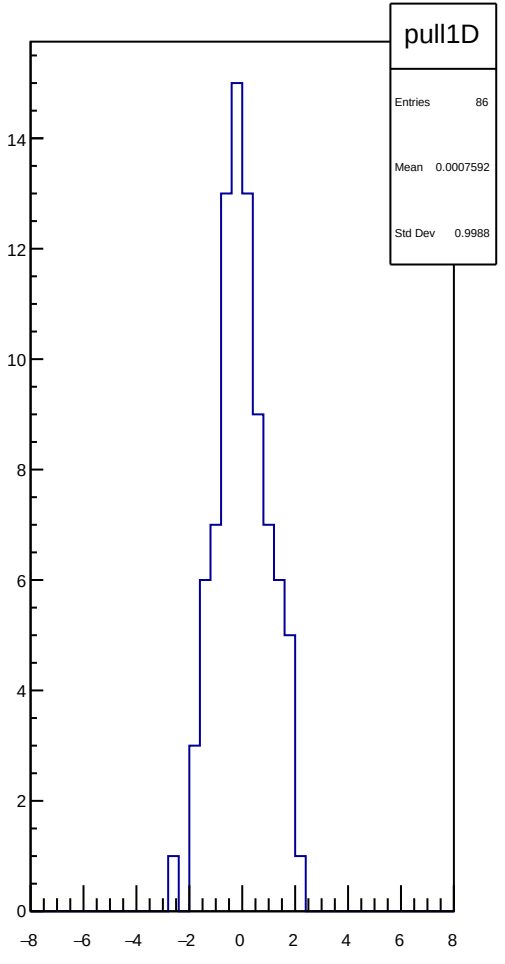

diff_bpm_4aX_4acX_avg_rms vs run
χ^2 / ndf 8601 / 85
p0 9529 ± 7.366
11000
10500
10000
9500
9000
8500

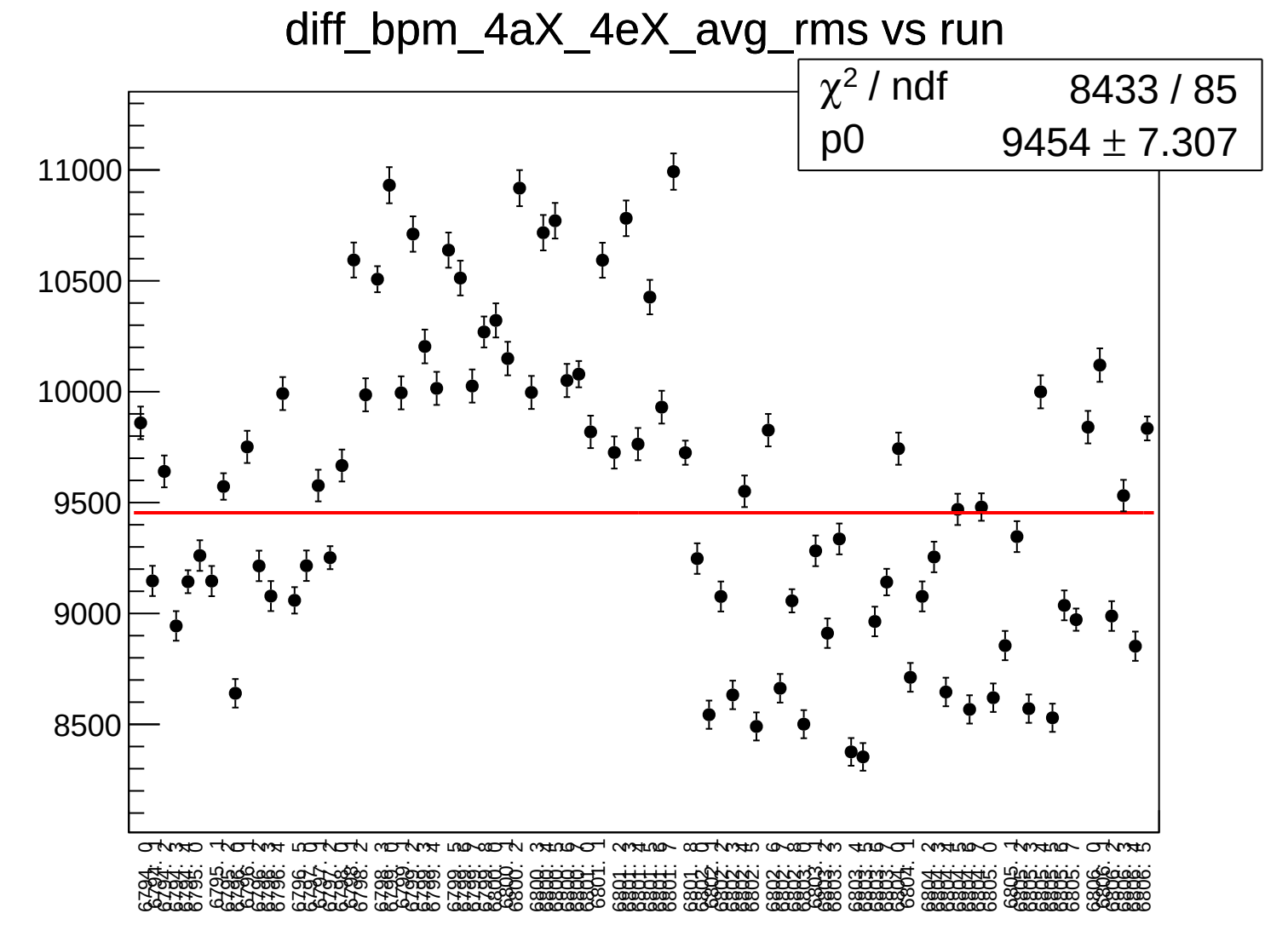

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 78.3 / 85
p0 0.256 ± 0.4699
pull
Entries 86
Mean 1076
Std Dev 0

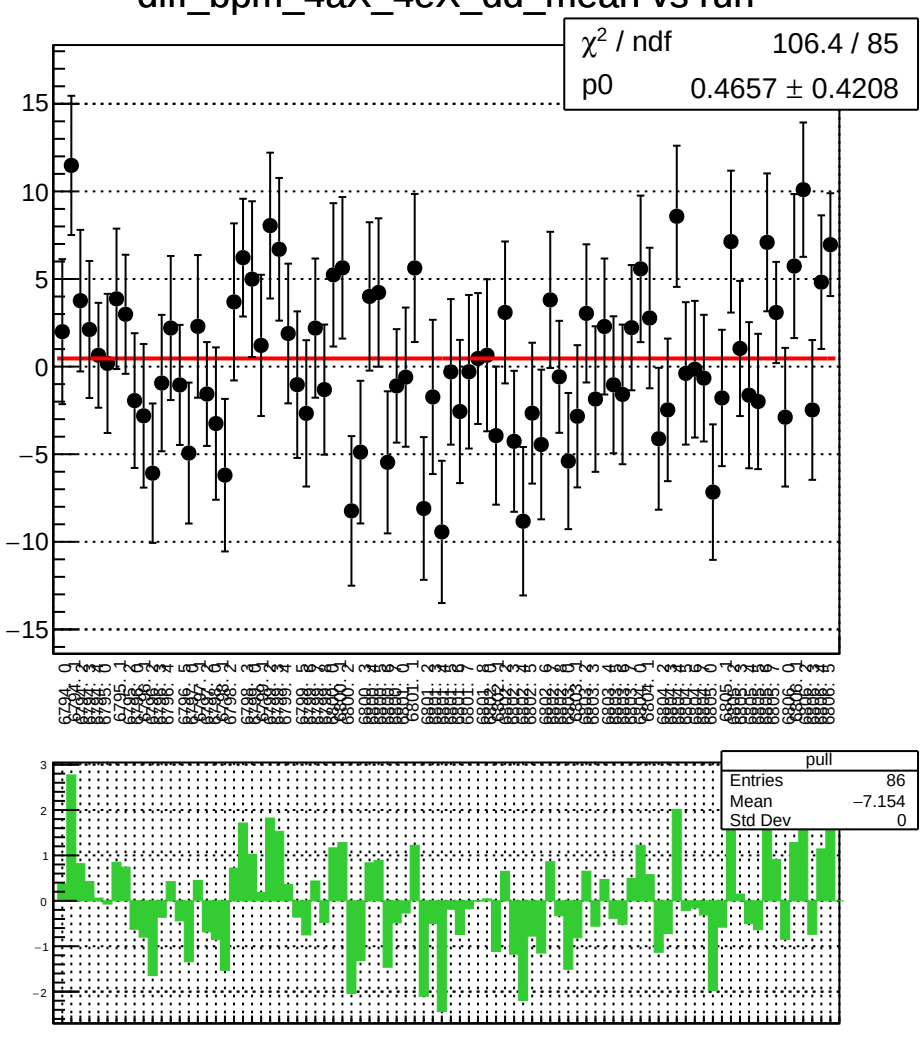

pull1D
Entries 86
Mean 0.003393
Std Dev 0.9542

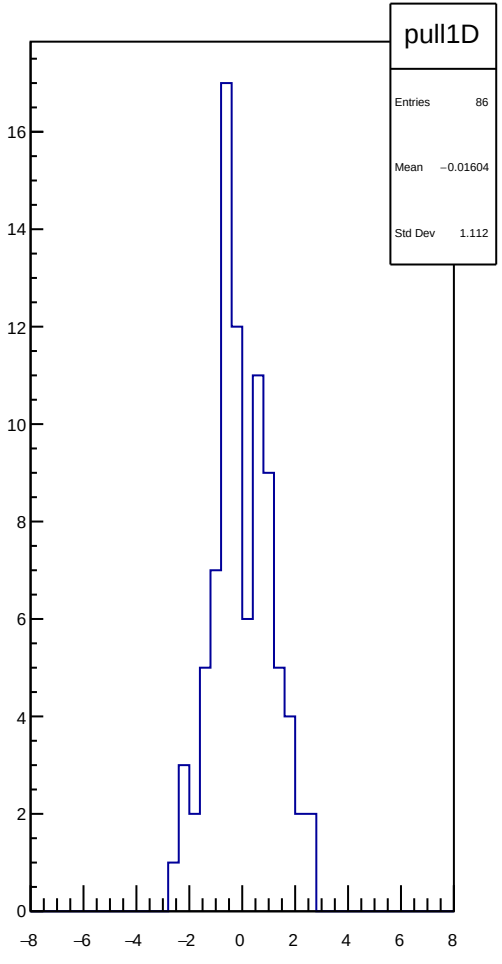

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 165.2 / 85
p0 430.9 ± 0.3323
450
445
440
435
430
425
420

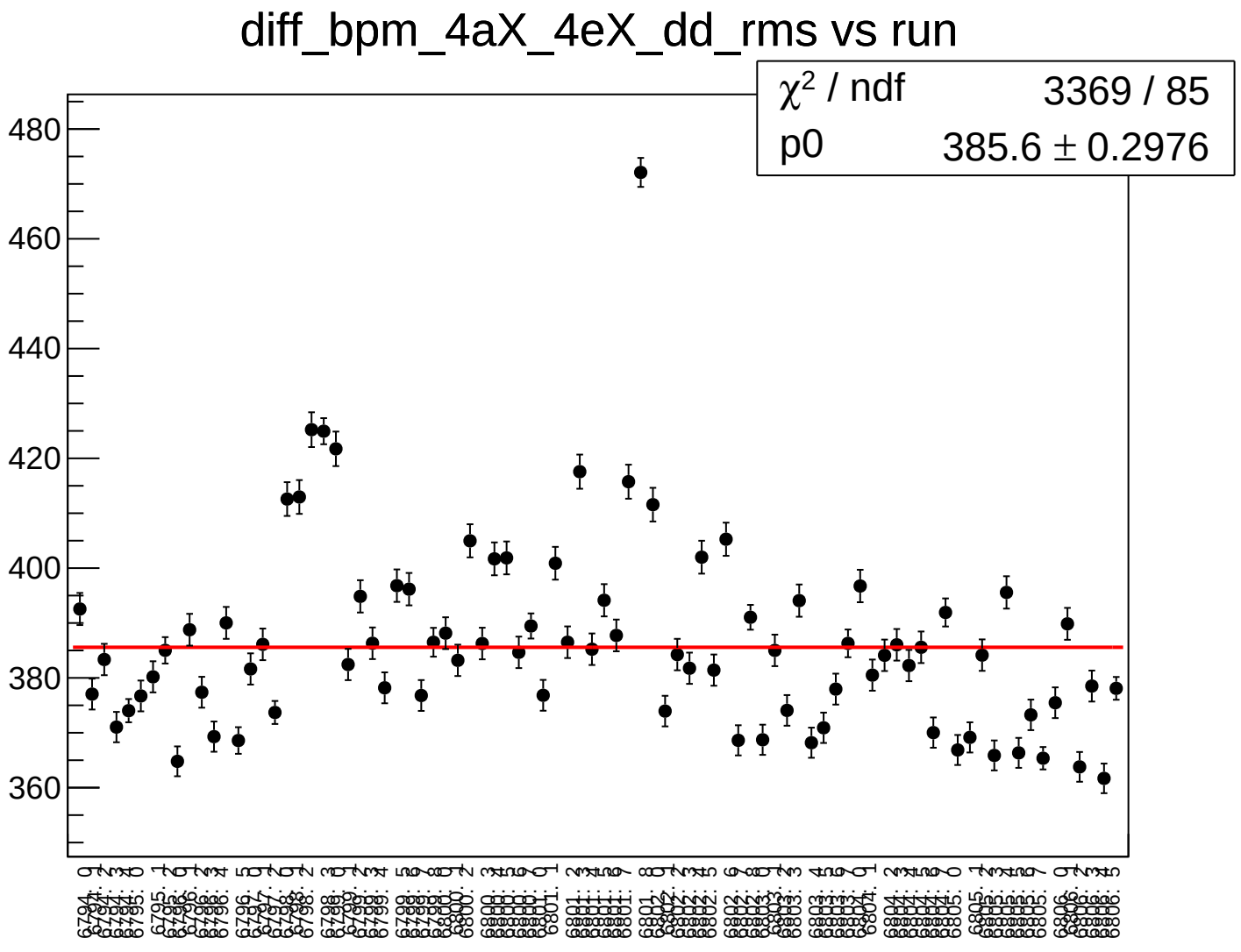

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 85.8 / 85
p0 −4.502 ± 10.33
300
200
100
0
−100
−200
−300
−400
pull
Entries 86
Mean 544.3
Std Dev 0
2
1
0
−1
−2

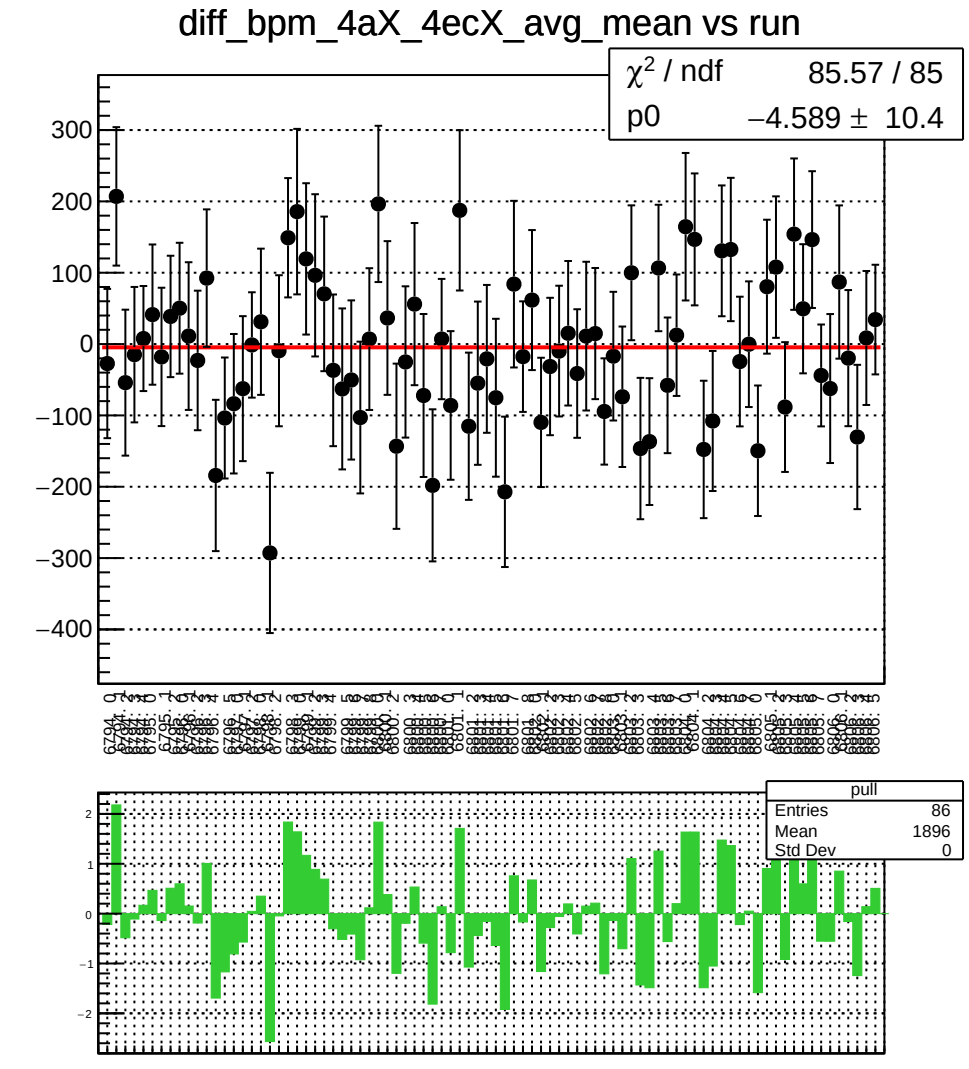

pull1D
Entries 86
Mean 0.0007592
Std Dev 0.9988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

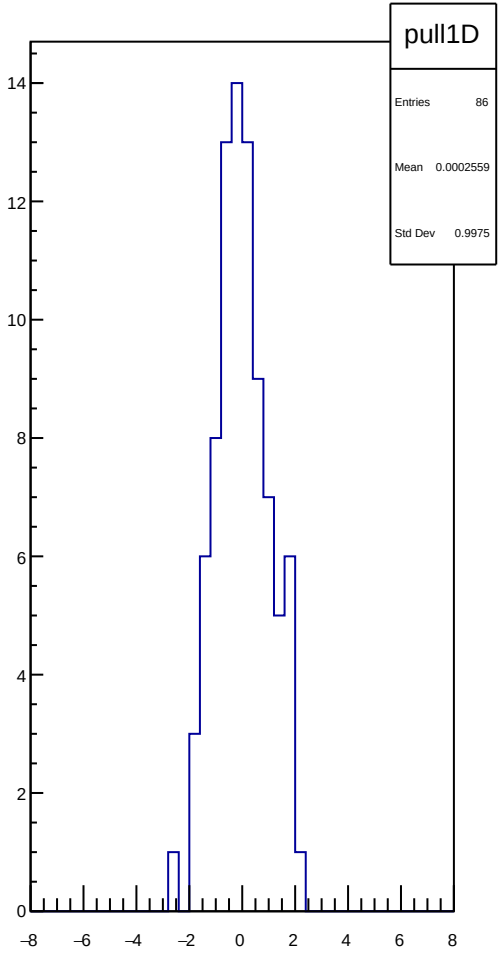

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 8433 / 85
p0 9454 ± 7.307
11000
10500
10000
9500
9000
8500

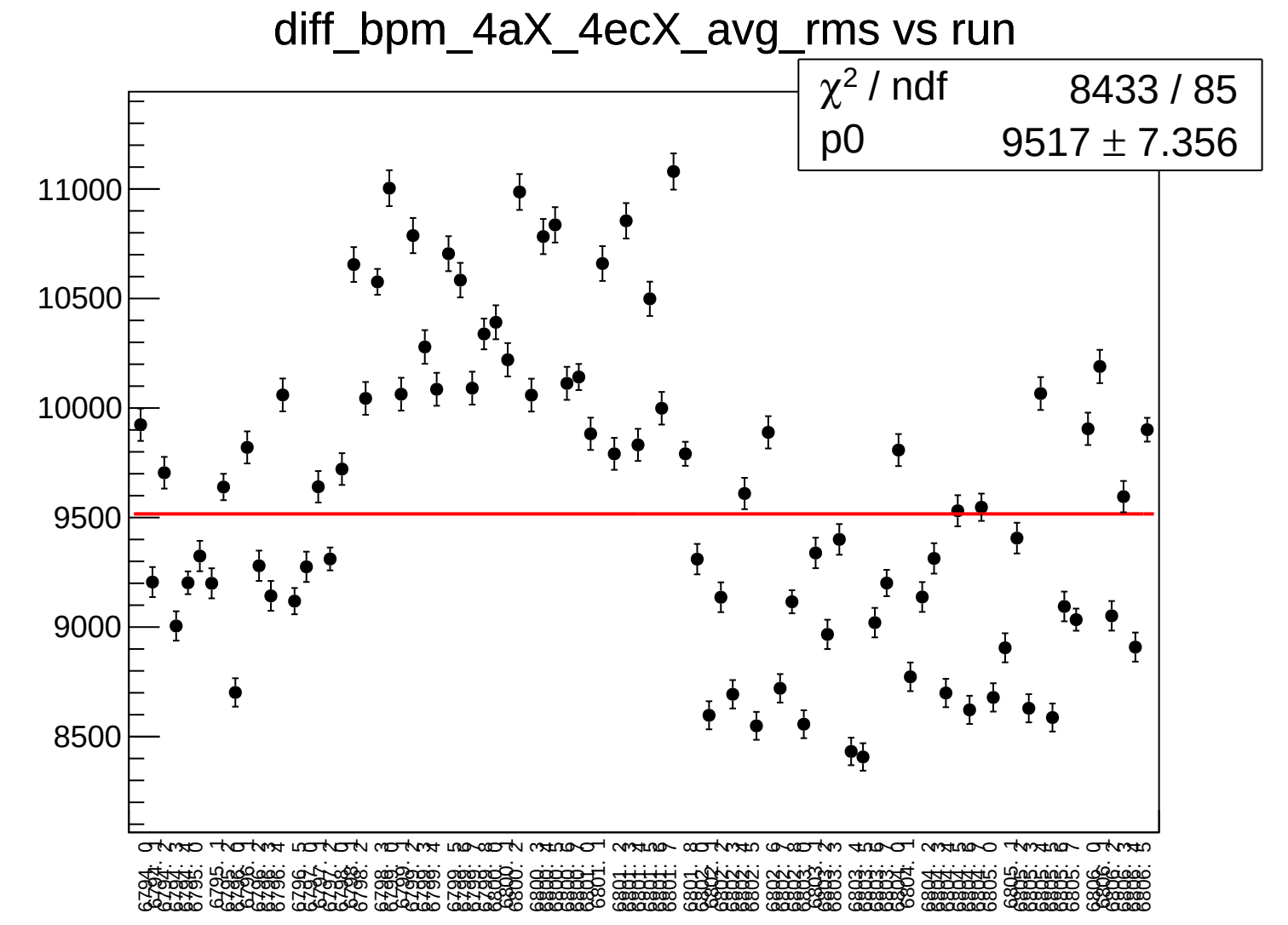

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 106.4 / 85
p0 0.4657 ± 0.4208
pull
Entries 86
Mean −7.154
Std Dev 0

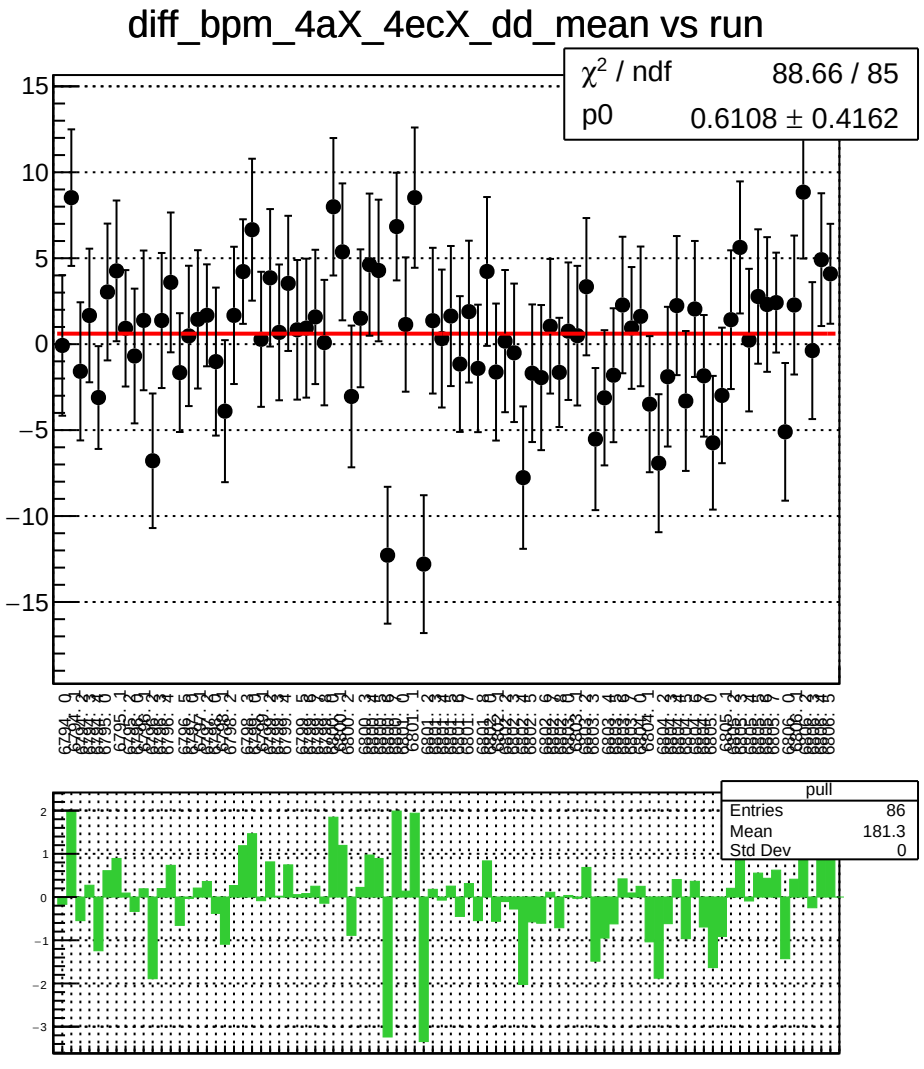

pull1D
Entries 86
Mean −0.01604
Std Dev 1.112

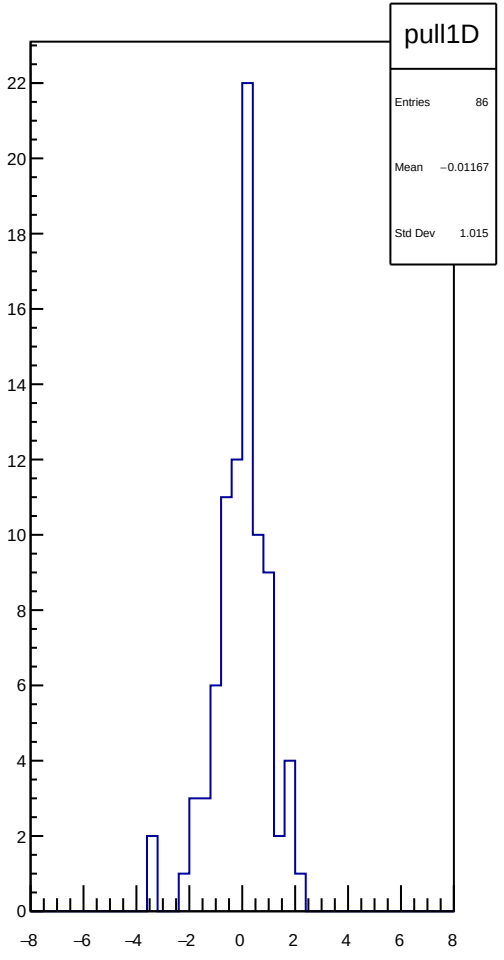

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 3369 / 85
p0 385.6 ± 0.2976
480
460
440
420
400
380
360

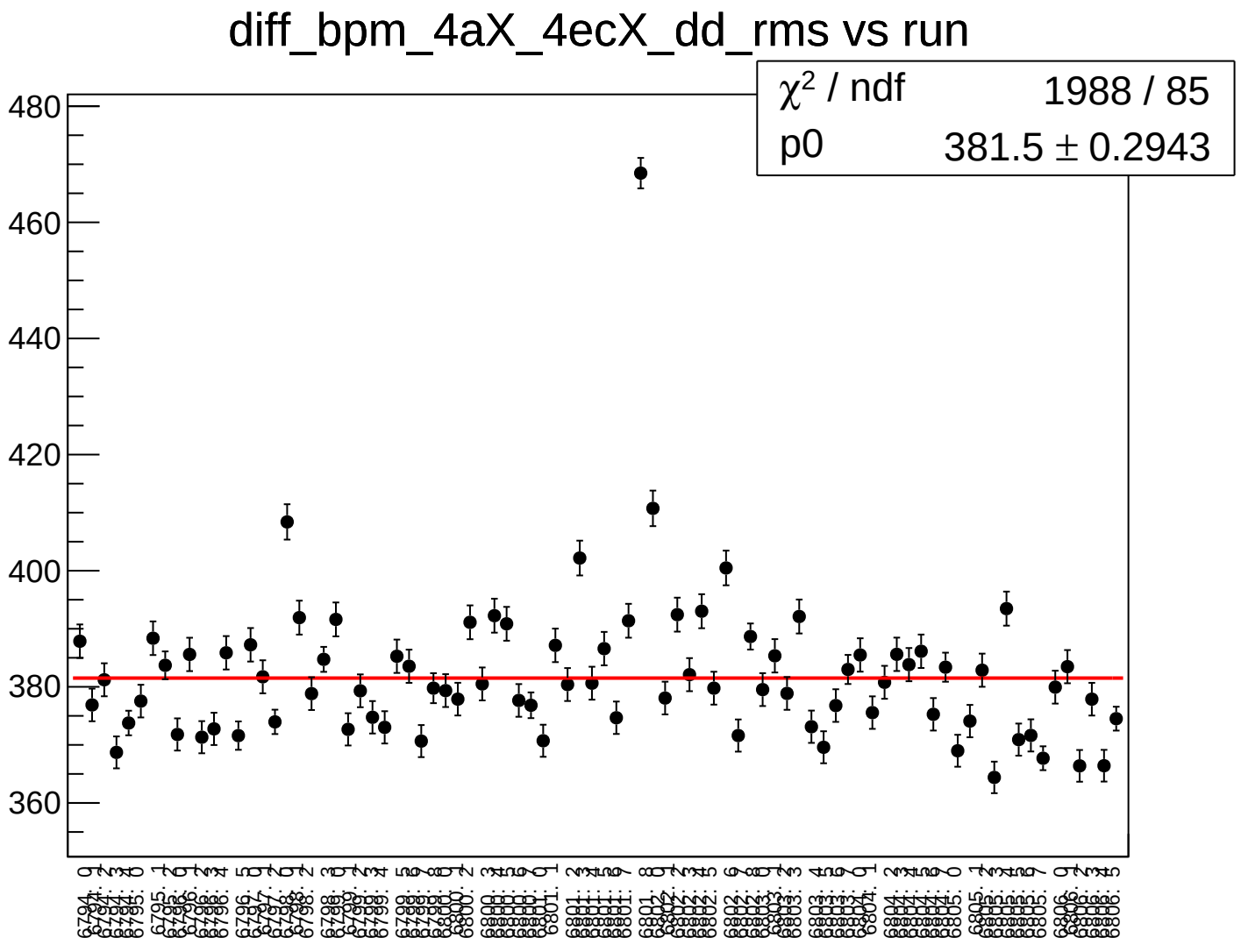

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 85.57 / 85
p0 −4.589 ± 10.4
pull
Entries 86
Mean 1896
Std Dev 0

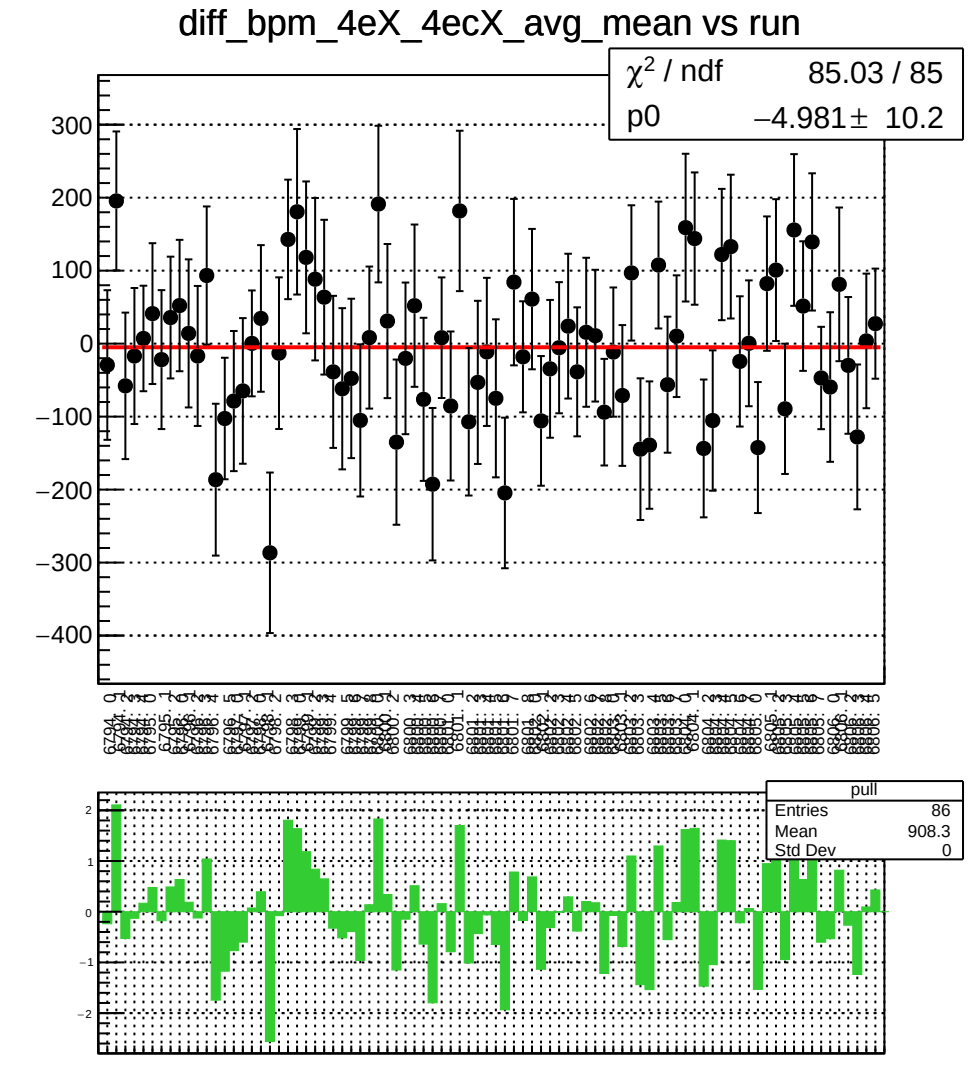

pull1D
Entries 86
Mean 0.0002559
Std Dev 0.9975

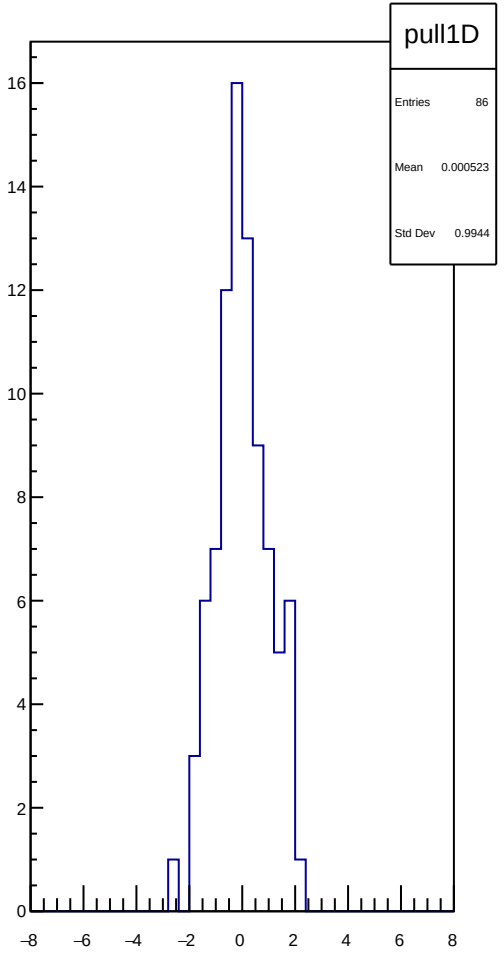

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 8433 / 85
p0 9517 ± 7.356
11000
10500
10000
9500
9000
8500

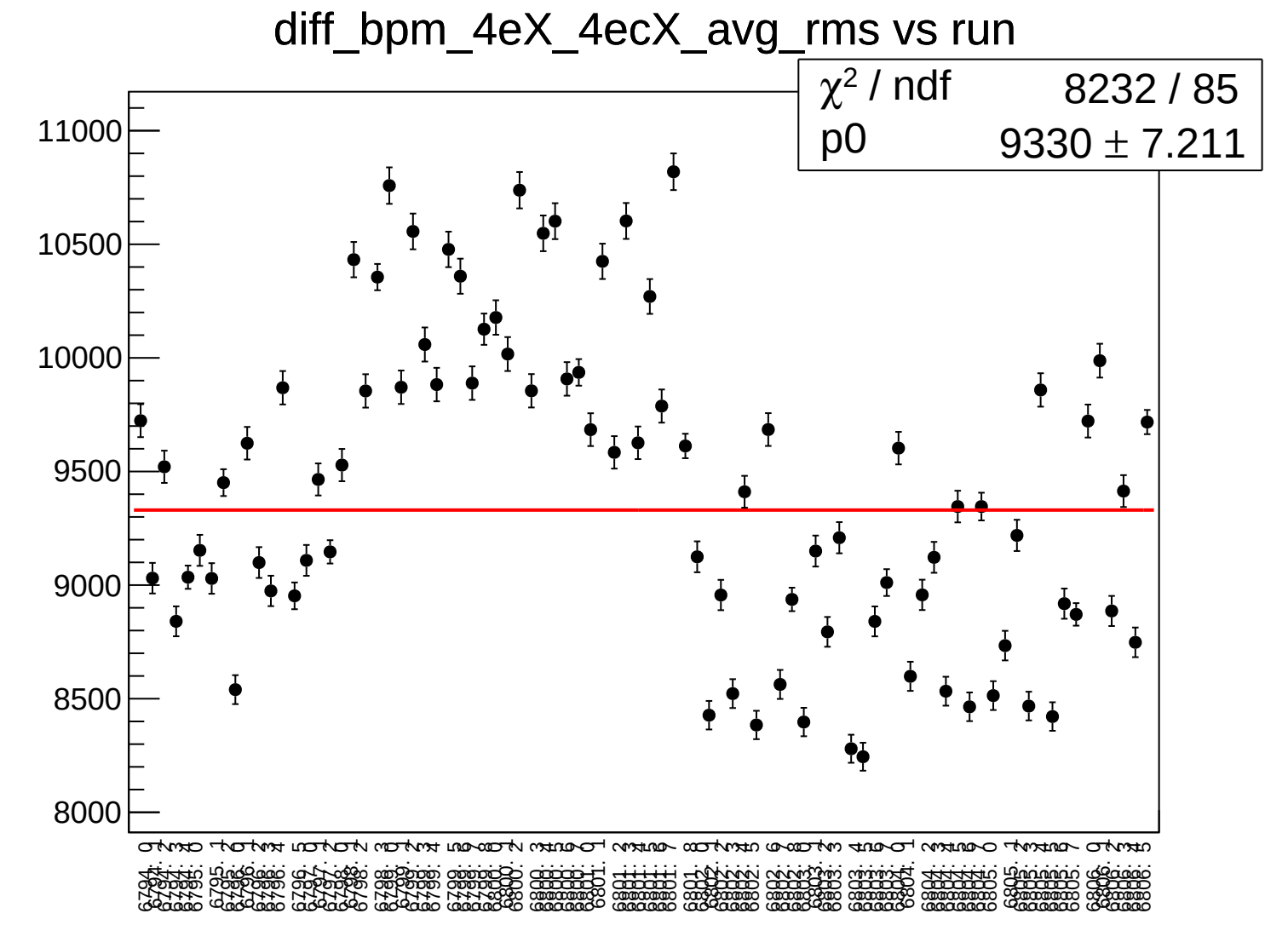

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 88.66 / 85
p0 0.6108 ± 0.4162
pull
Entries 86
Mean 181.3
Std Dev 0

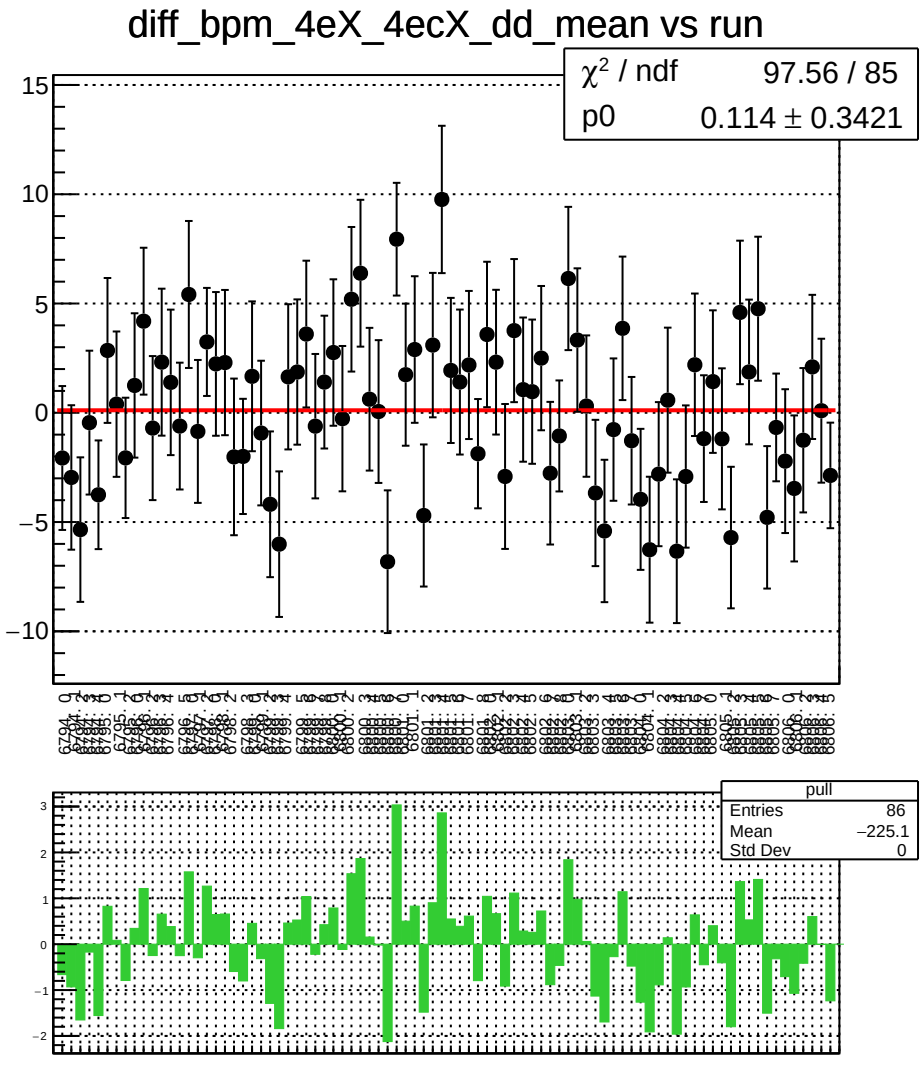

pull1D
Entries 86
Mean −0.01167
Std Dev 1.015

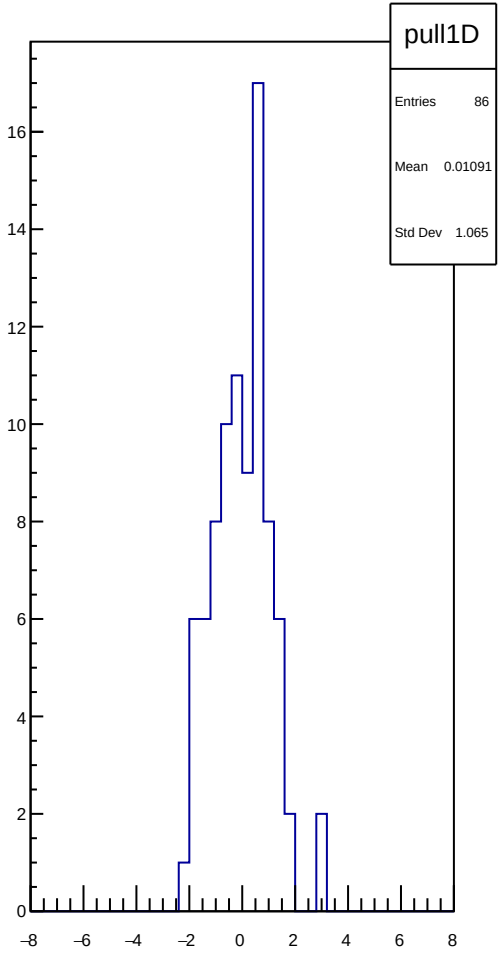

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1988 / 85
p0 381.5 ± 0.2943
480
460
440
420
400
380
360

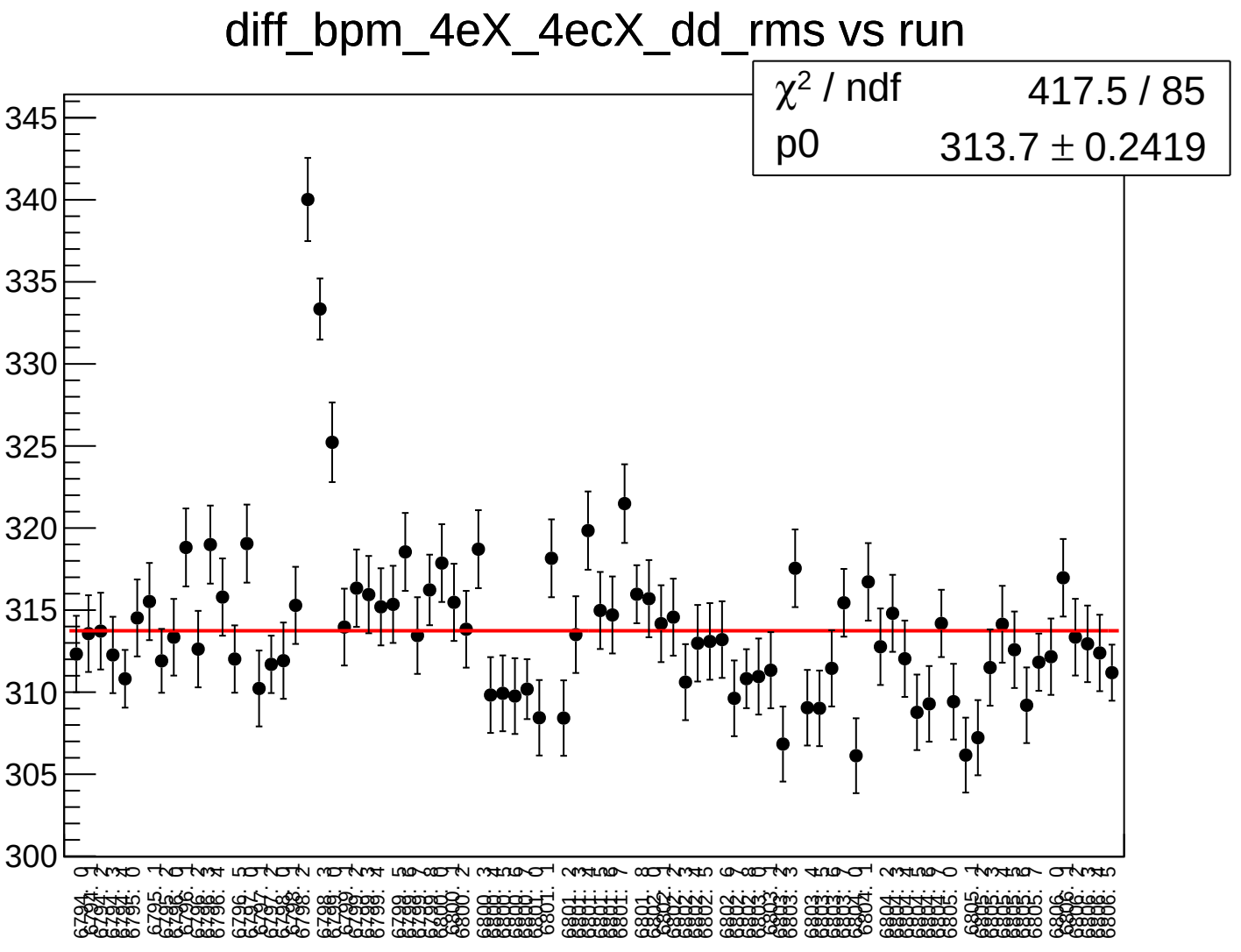

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 85.03 / 85
p0 −4.981± 10.2
pull
Entries 86
Mean 908.3
Std Dev 0

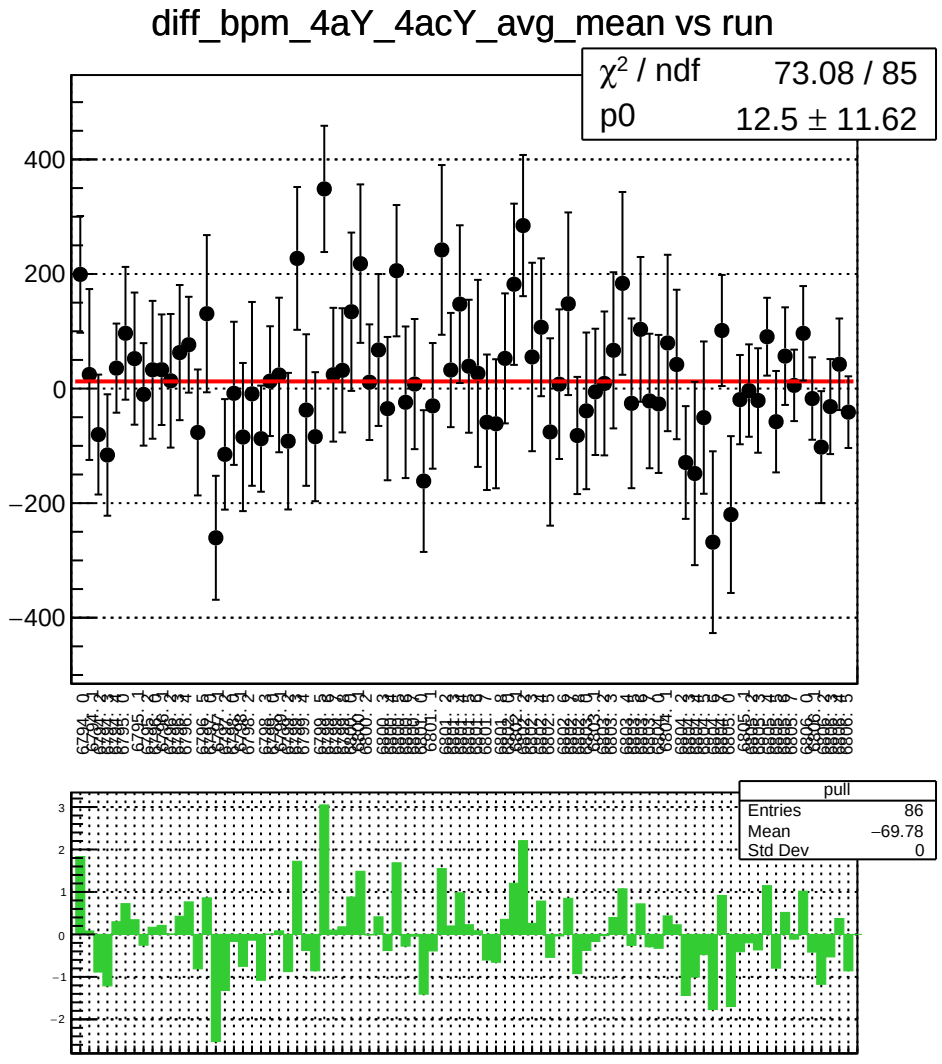

pull1D
Entries 86
Mean 0.000523
Std Dev 0.9944

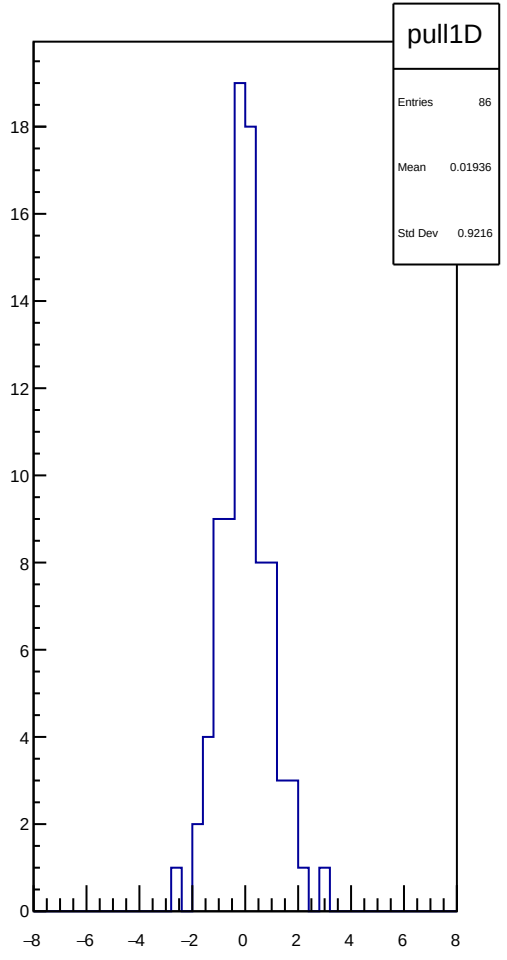

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 8232 / 85
p0 9330 ± 7.211
11000
10500
10000
9500
9000
8500
8000

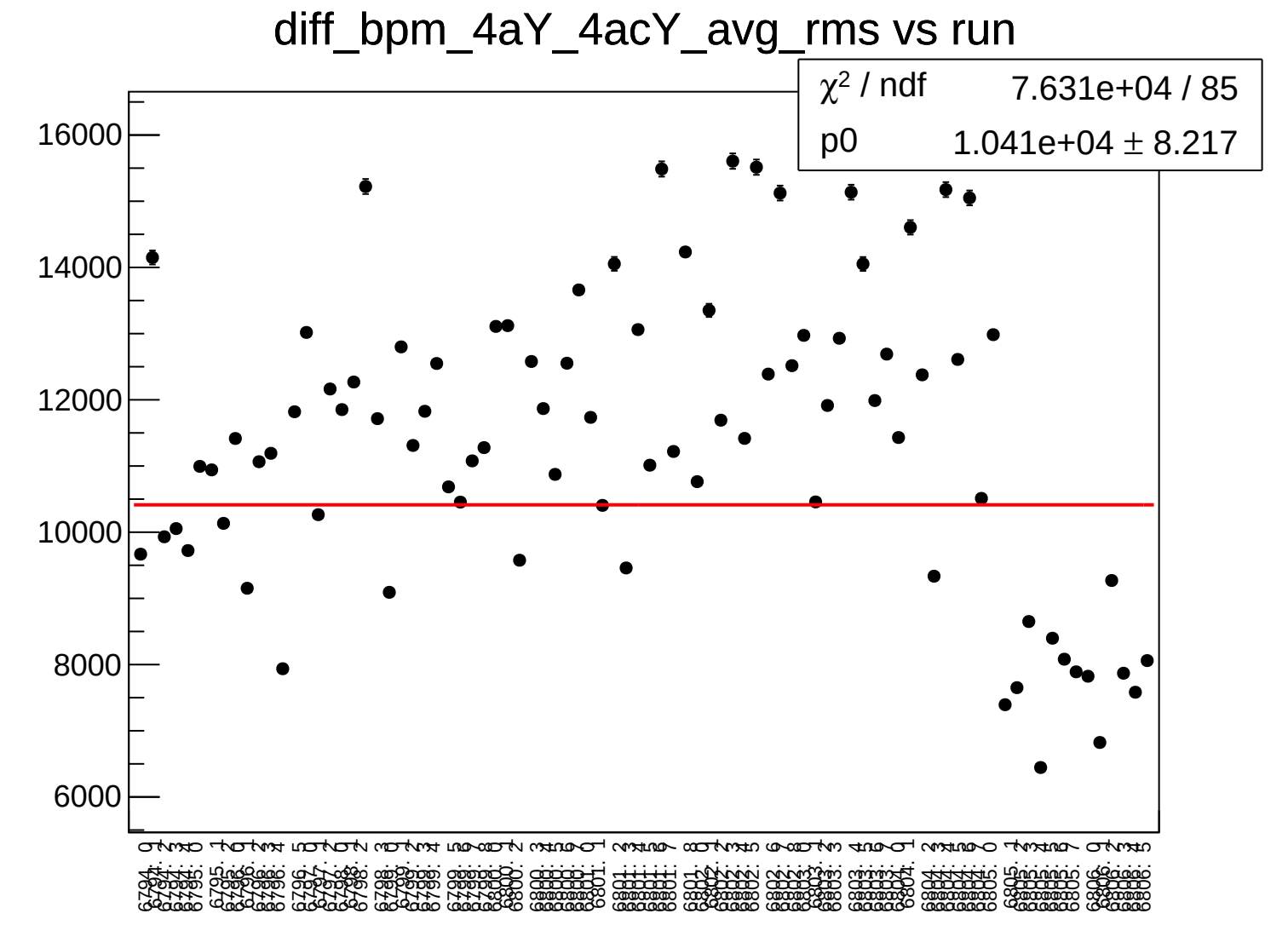

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 97.56 / 85
p0 0.114 ± 0.3421
pull
Entries 86
Mean −225.1
Std Dev 0

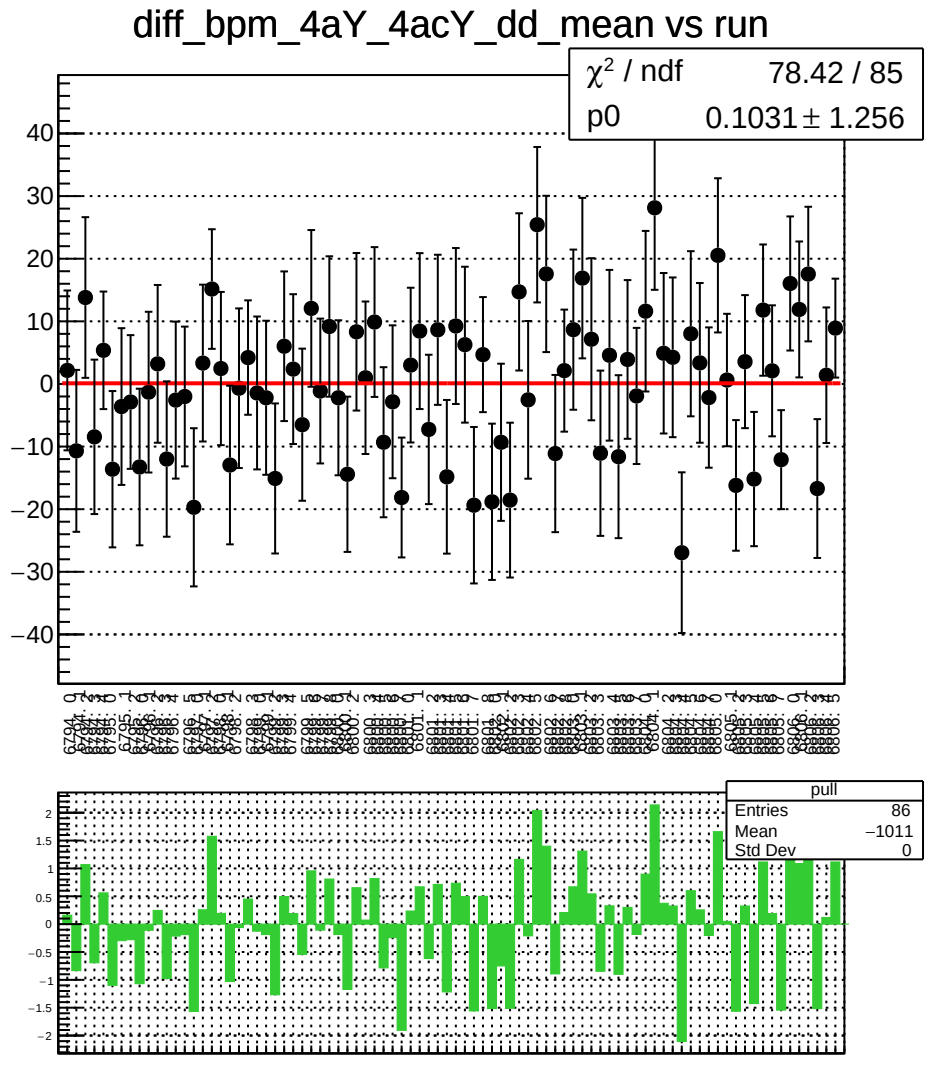

pull1D
Entries 86
Mean 0.01091
Std Dev 1.065

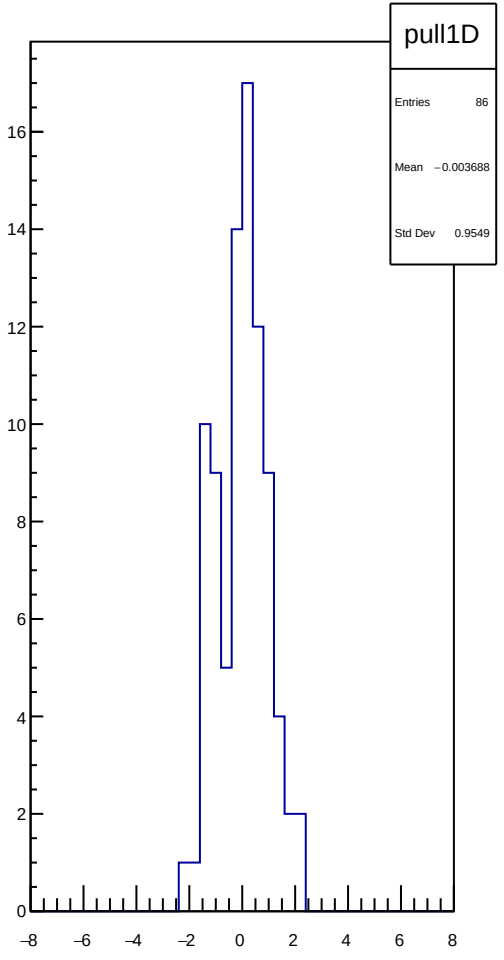

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 417.5 / 85
p0 313.7 ± 0.2419
345
340
335
330
325
320
315
310
305
300

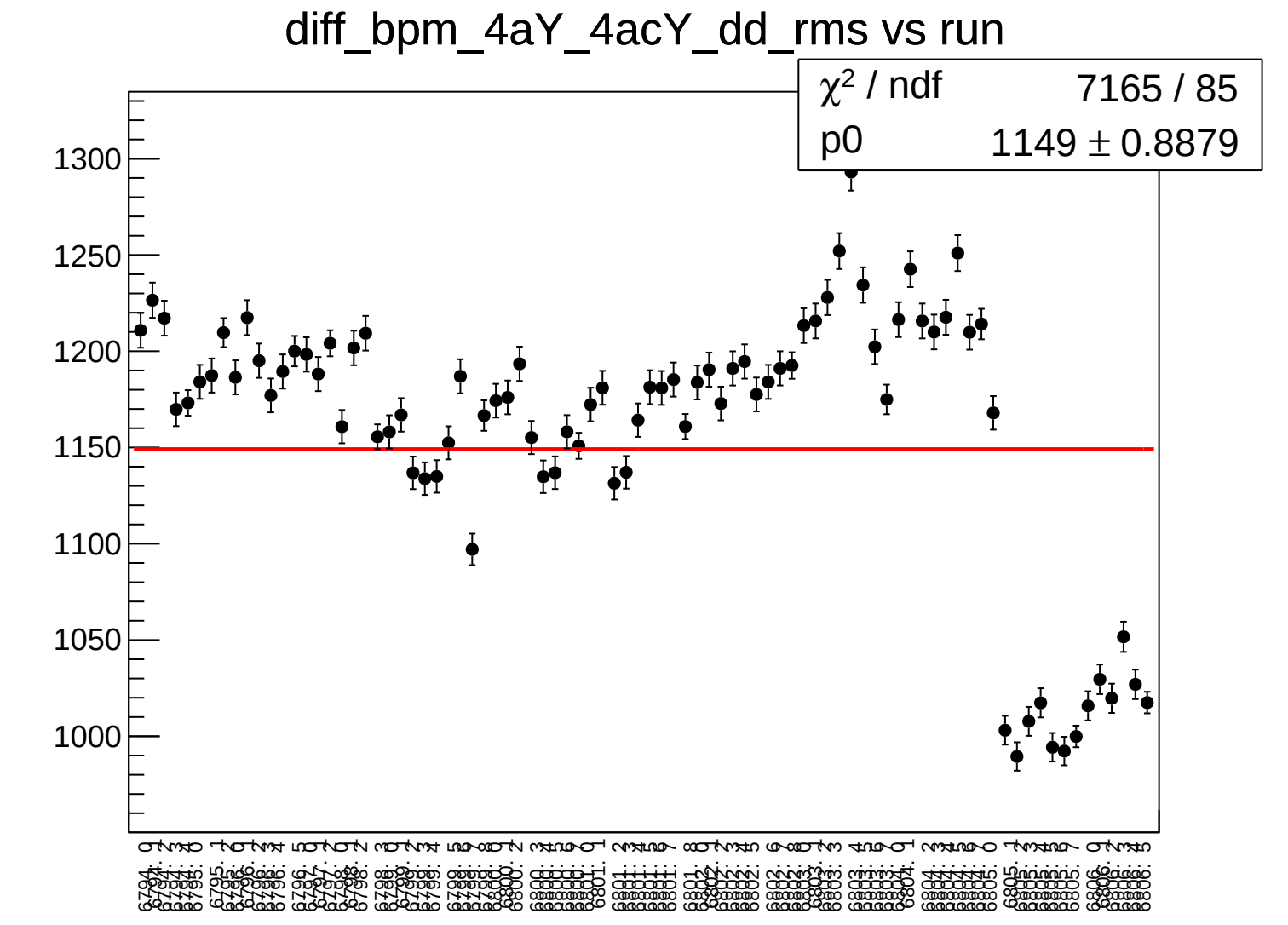

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 73.08 / 85
p0 12.5 ± 11.62
400
200
0
−200
−400
pull
Entries 86
Mean −69.78
Std Dev 0
3
2
1
0
−1
−2

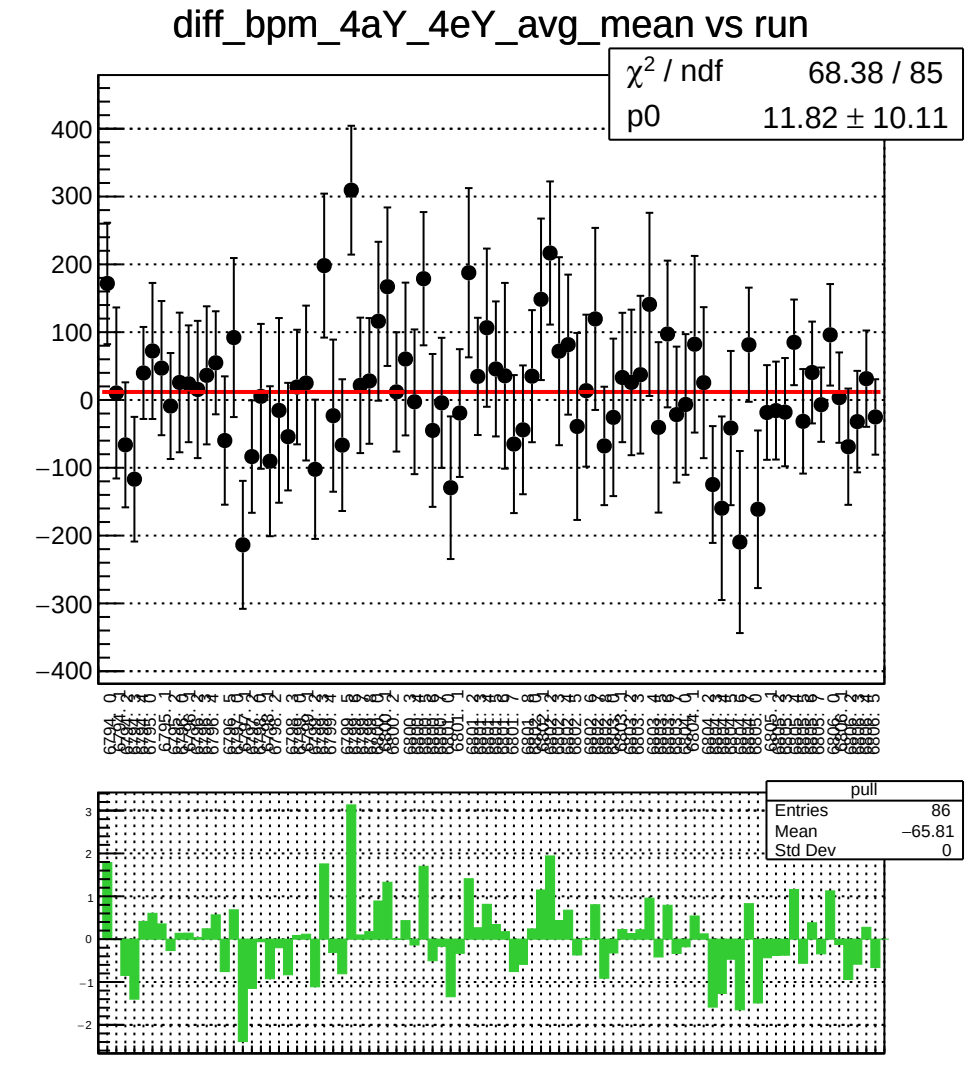

pull1D
Entries 86
Mean 0.01936
Std Dev 0.9216
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

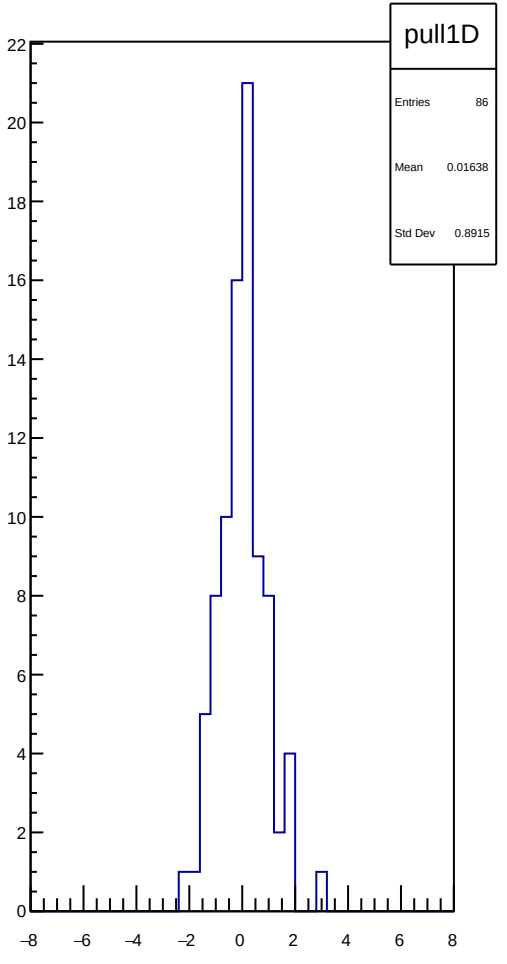

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 7.631e+04 / 85
p0 1.041e+04 ± 8.217
16000
14000
12000
10000
8000
6000

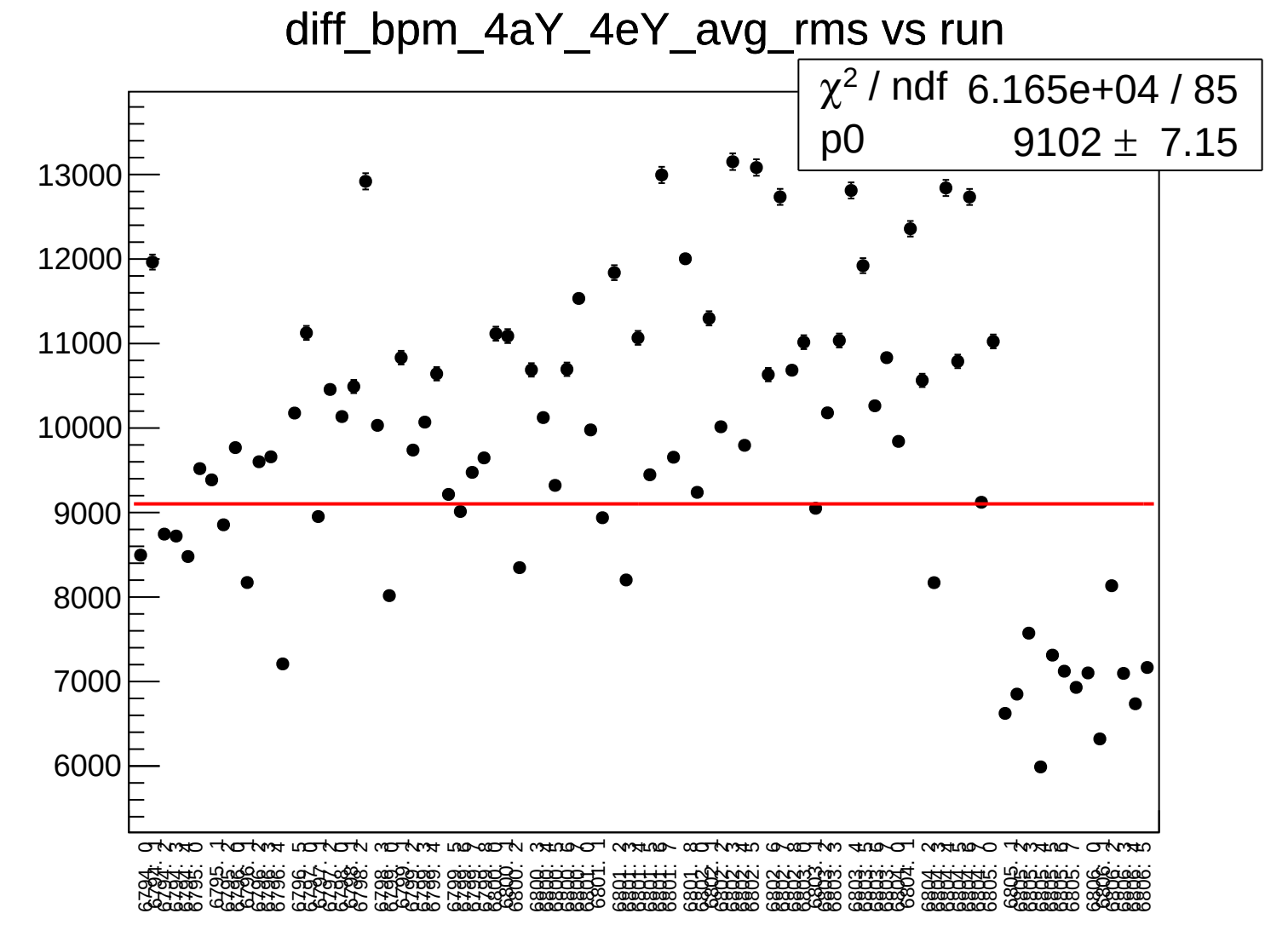

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 78.42 / 85
p0 0.1031 ± 1.256
pull
Entries 86
Mean −1011
Std Dev 0

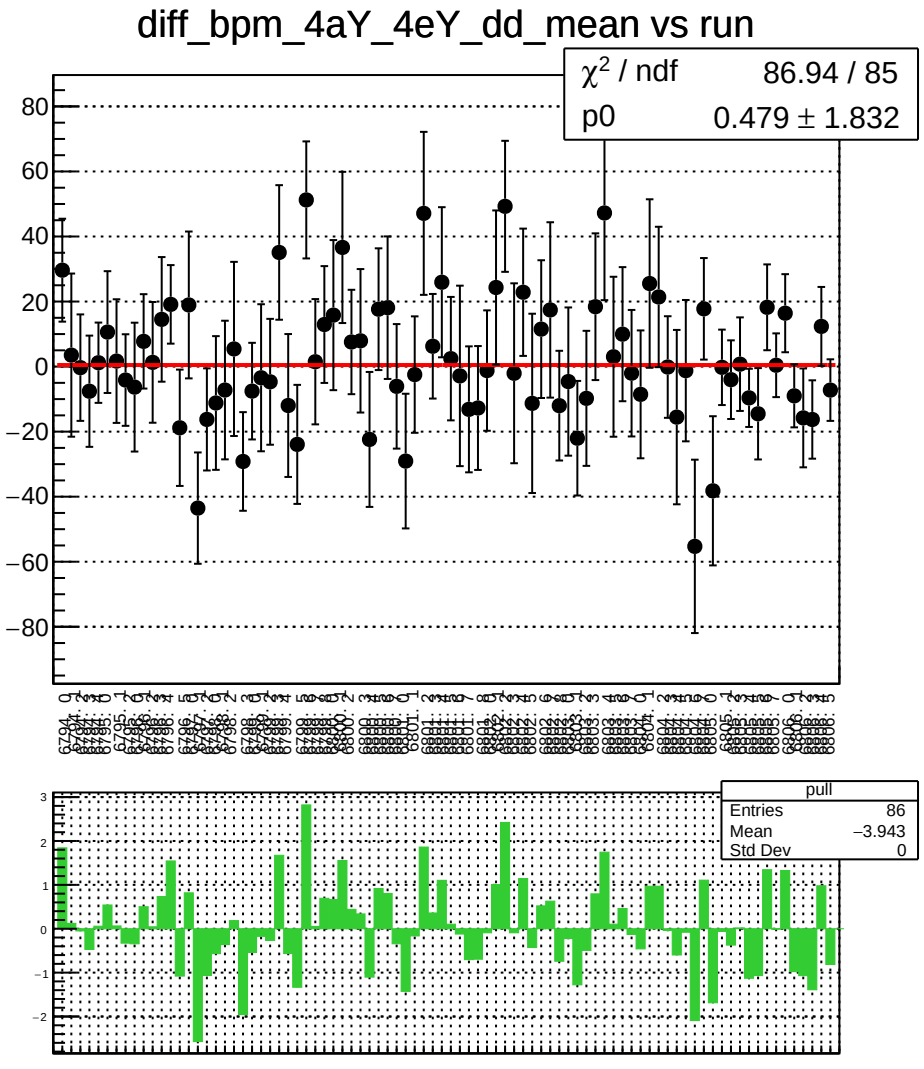

pull1D
Entries 86
Mean −0.003688
Std Dev 0.9549

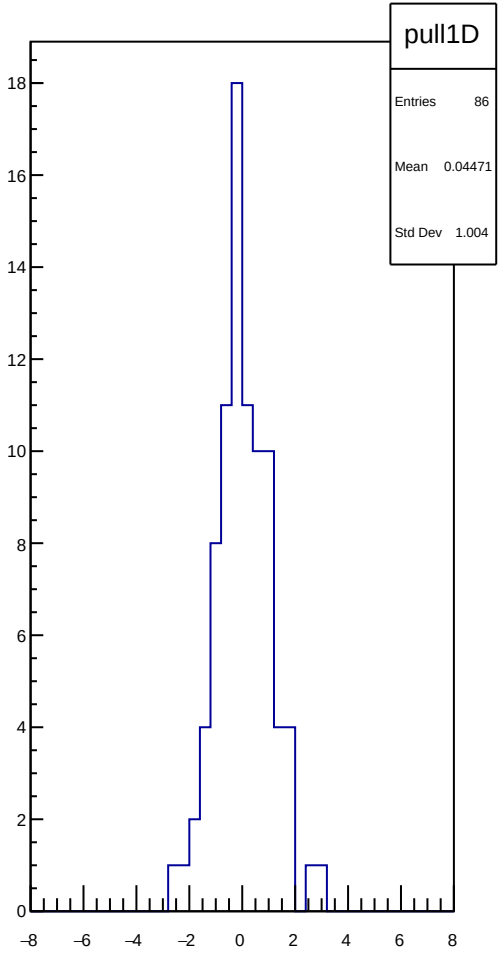

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 7165 / 85
p0 1149 ± 0.8879
1300
1250
1200
1150
1100
1050
1000

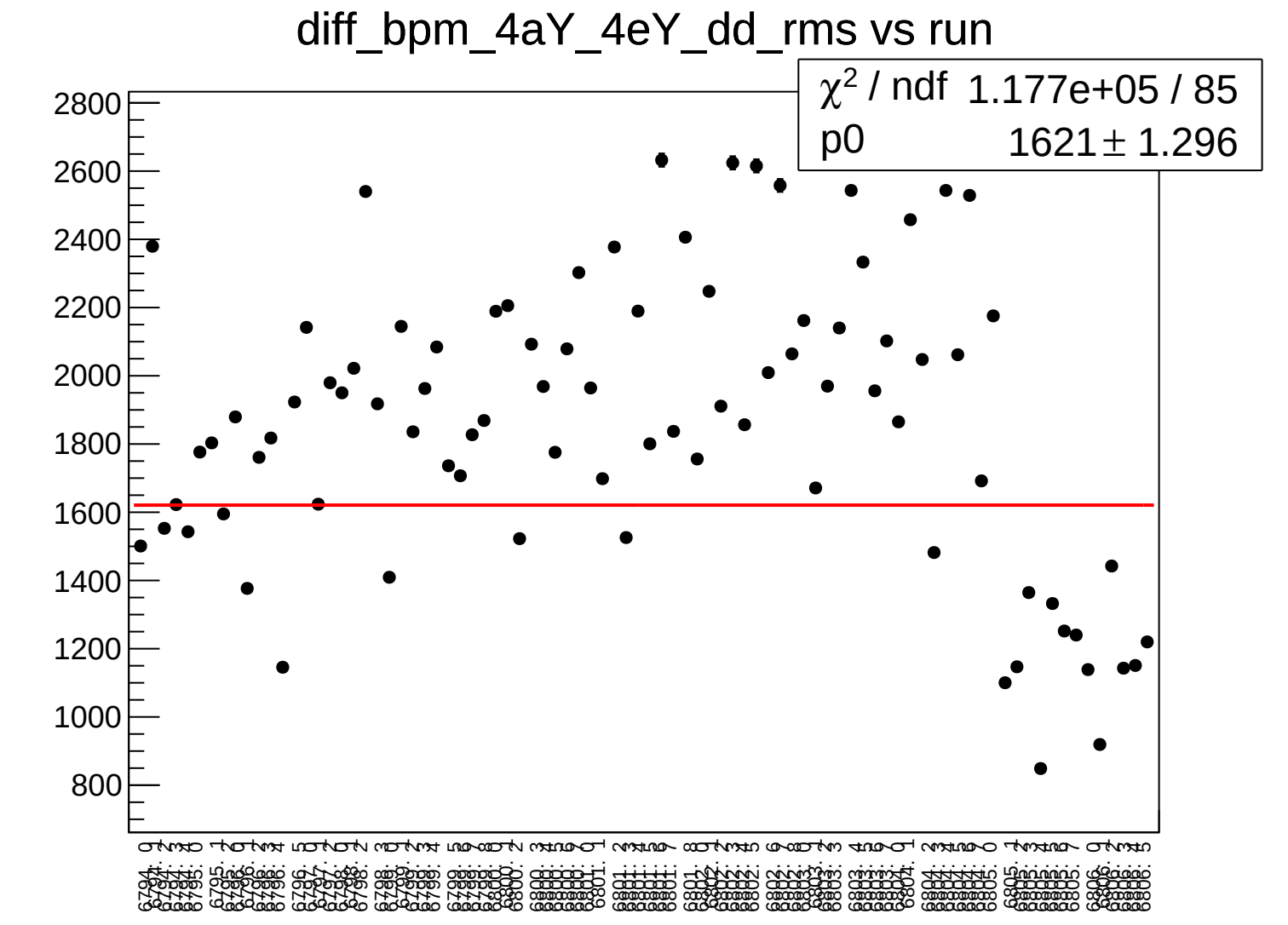

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 68.38 / 85
p0 11.82 ± 10.11
pull
Entries 86
Mean −65.81
Std Dev 0

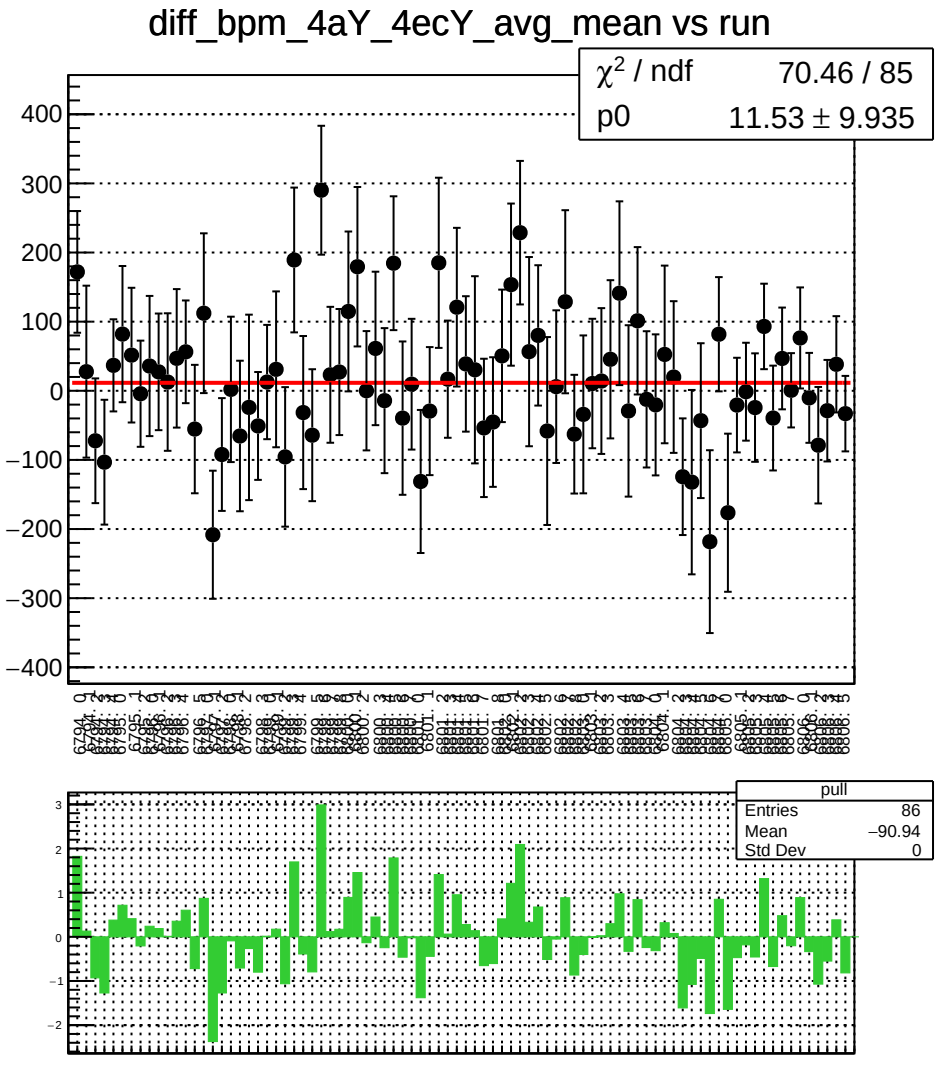

pull1D
Entries 86
Mean 0.01638
Std Dev 0.8915

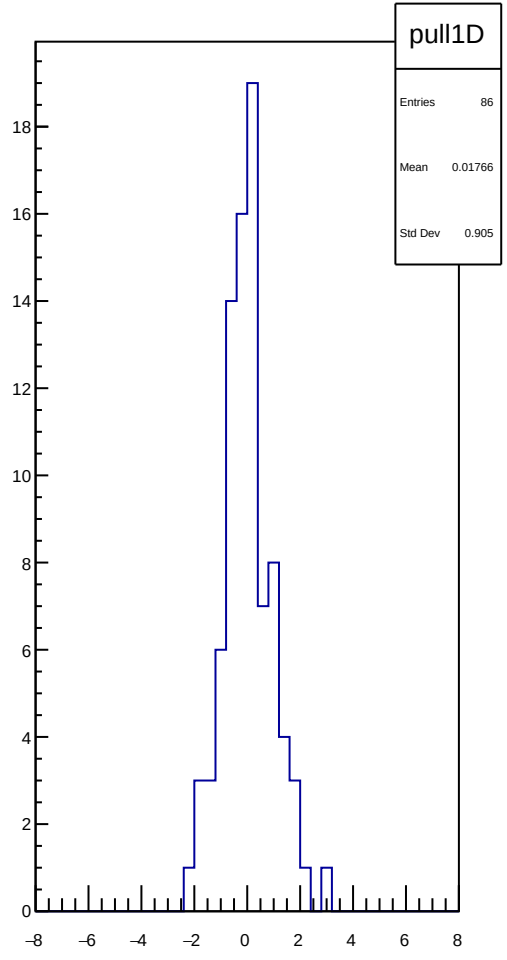

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 6.165e+04 / 85
p0 9102 ± 7.15
13000
12000
11000
10000
9000
8000
7000
6000

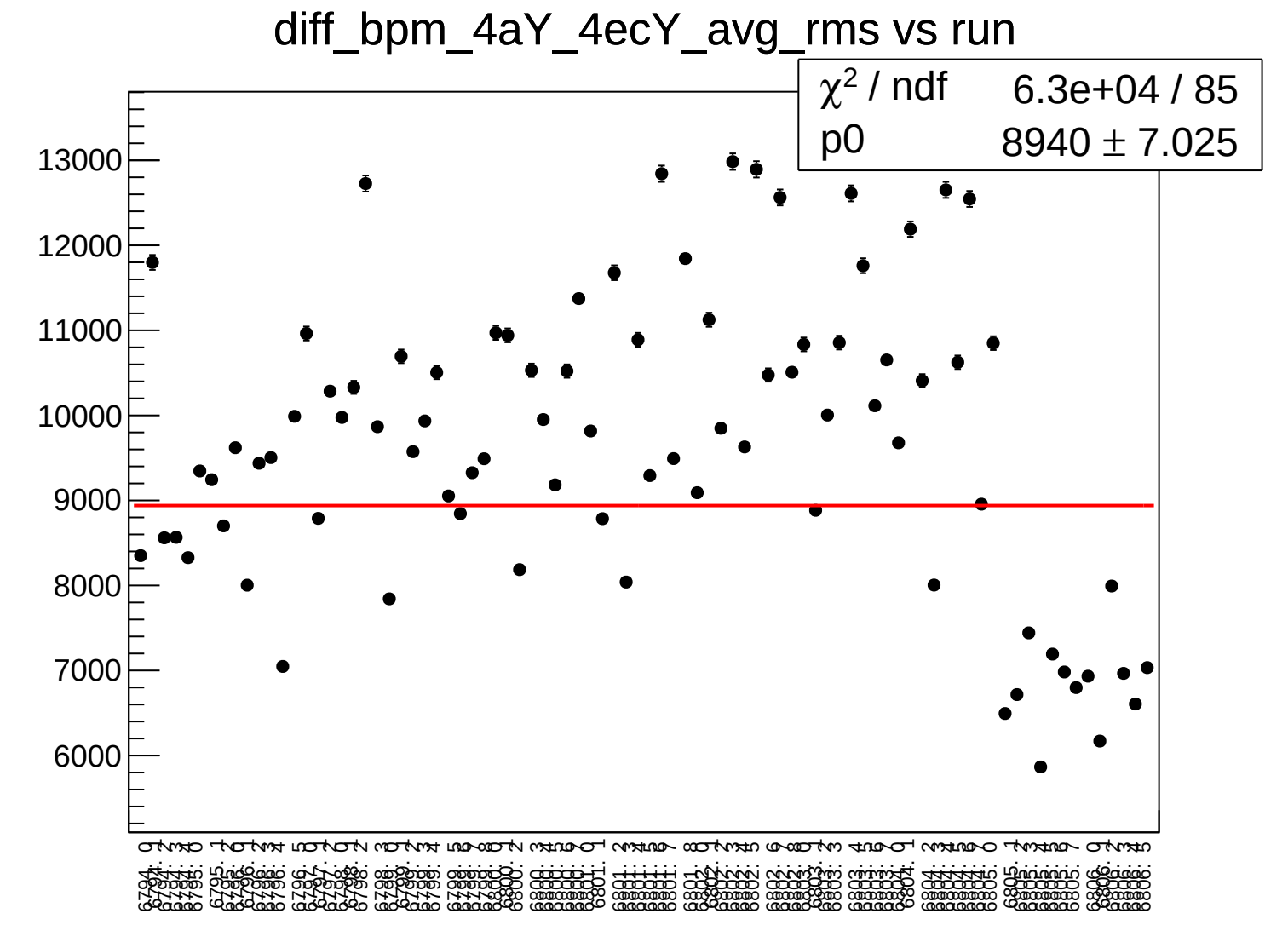

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 86.94 / 85
p0 0.479 ± 1.832
pull
Entries 86
Mean −3.943
Std Dev 0

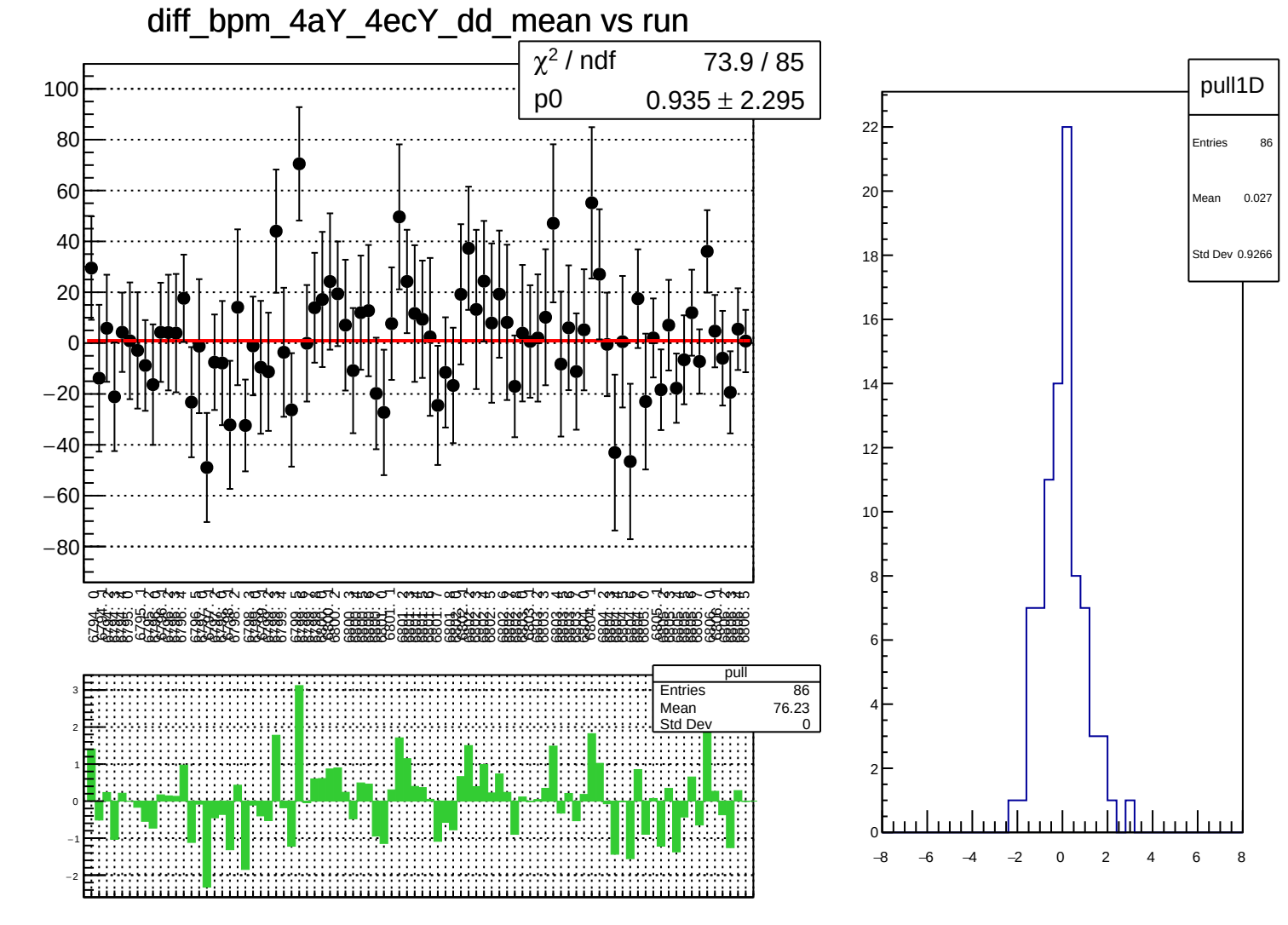

pull1D
Entries 86
Mean 0.04471
Std Dev 1.004

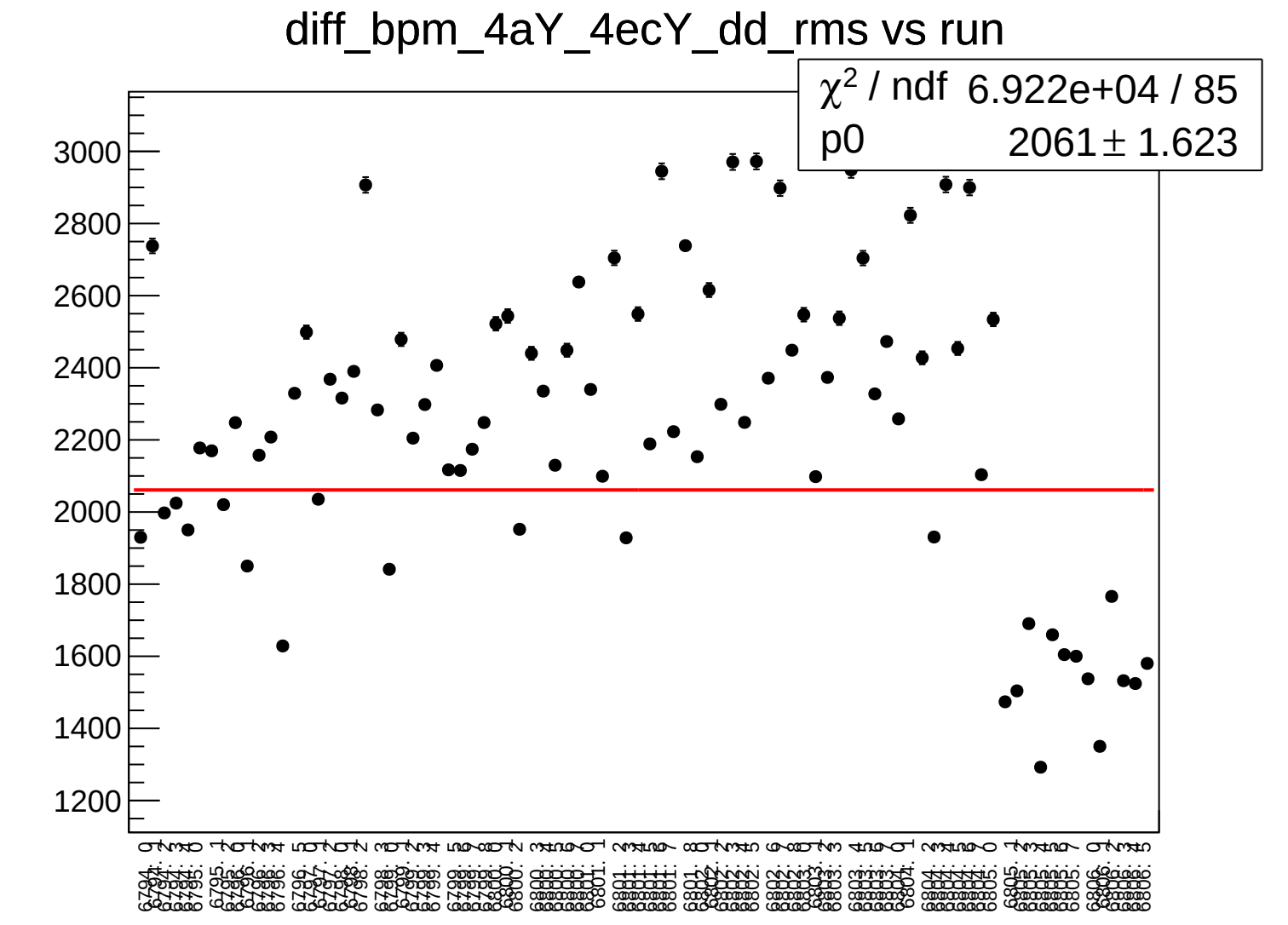

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.177e+05 / 85
p0 1621 ± 1.296
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

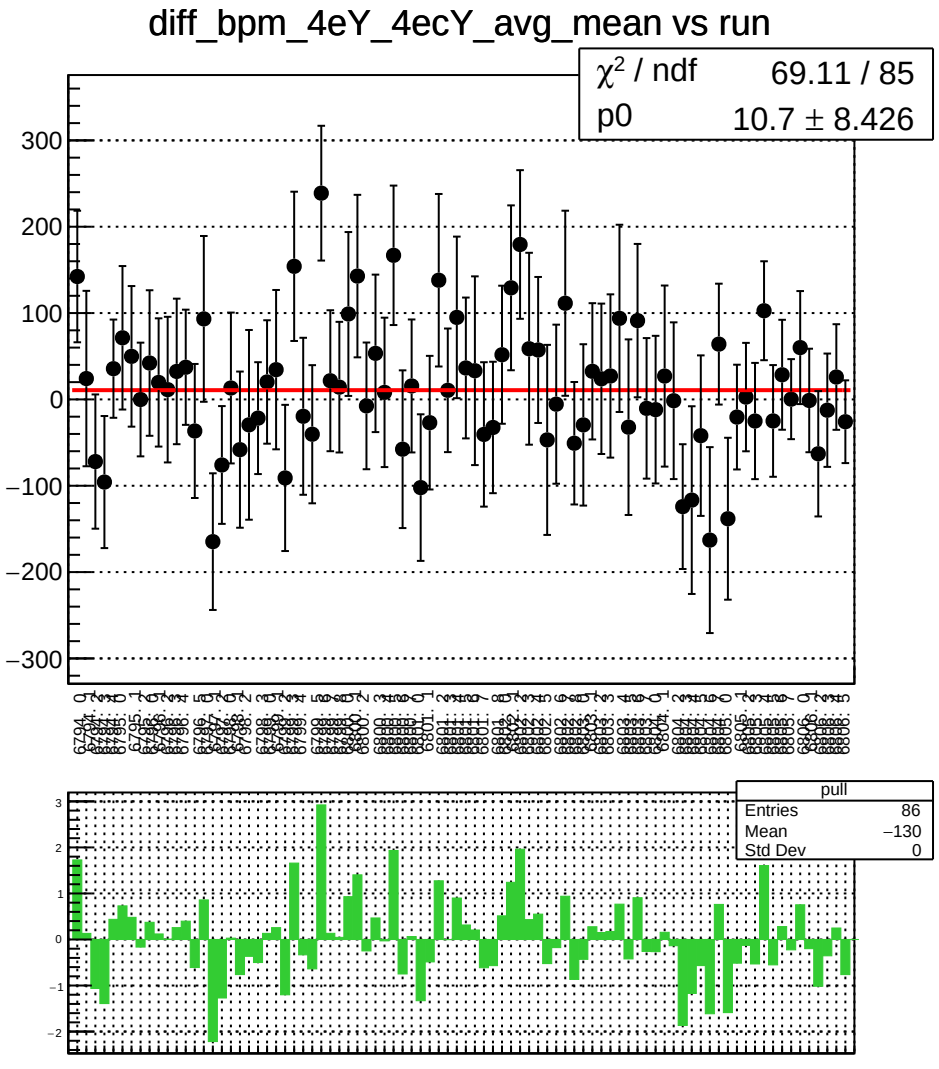

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 70.46 / 85
p0 11.53 ± 9.935
pull
Entries 86
Mean −90.94
Std Dev 0

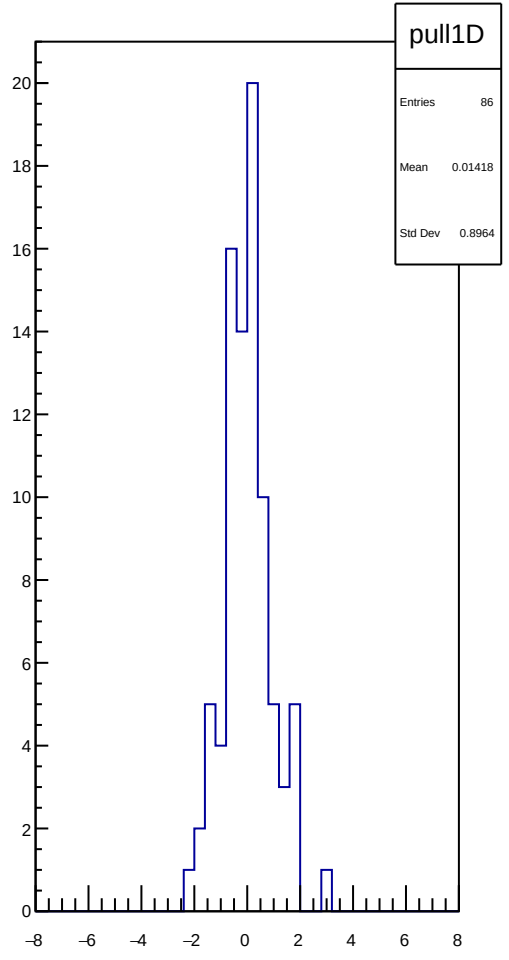

pull1D
Entries 86
Mean 0.01766
Std Dev 0.905

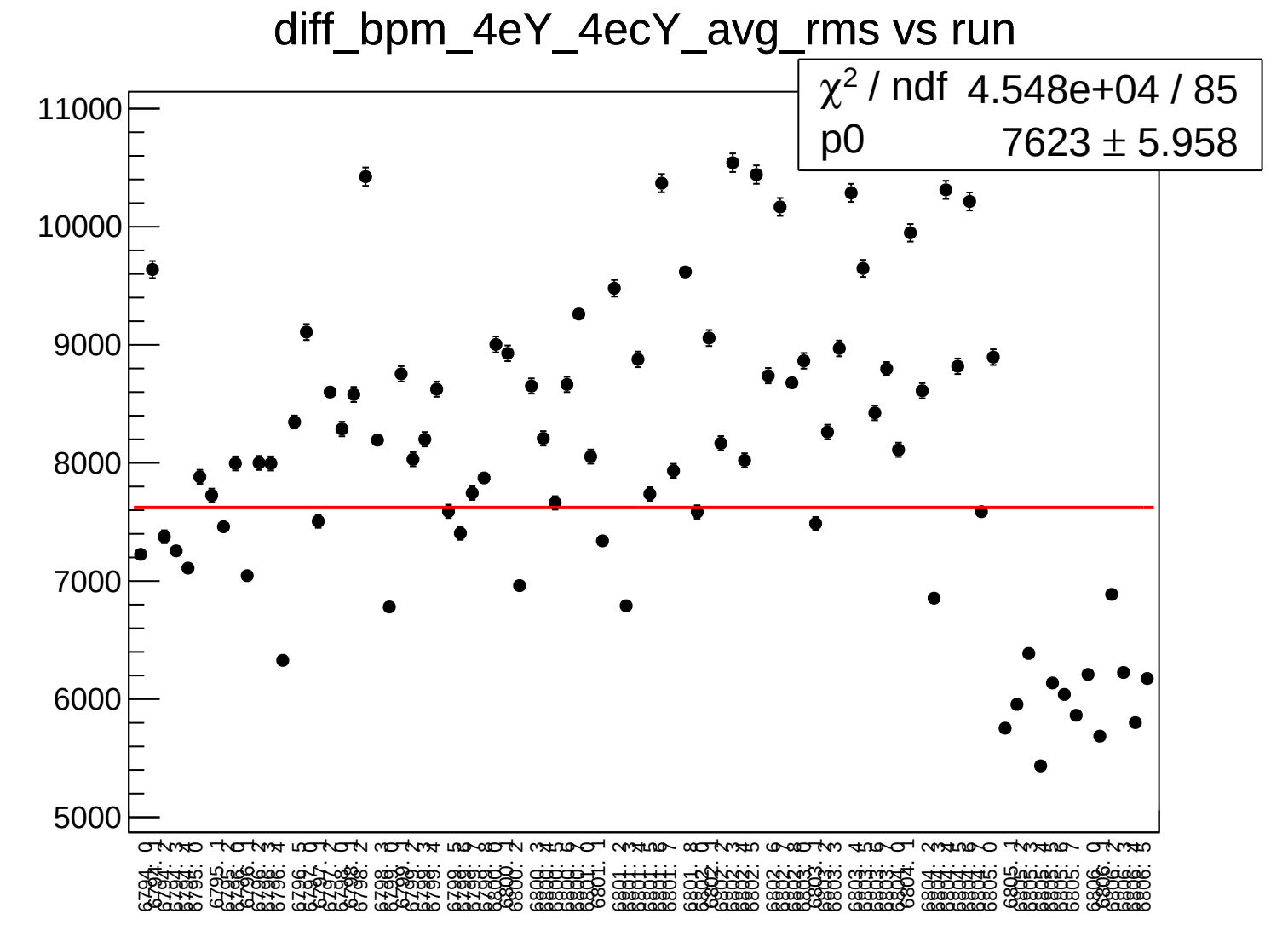

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 6.3e+04 / 85
p0 8940 ± 7.025
13000
12000
11000
10000
9000
8000
7000
6000

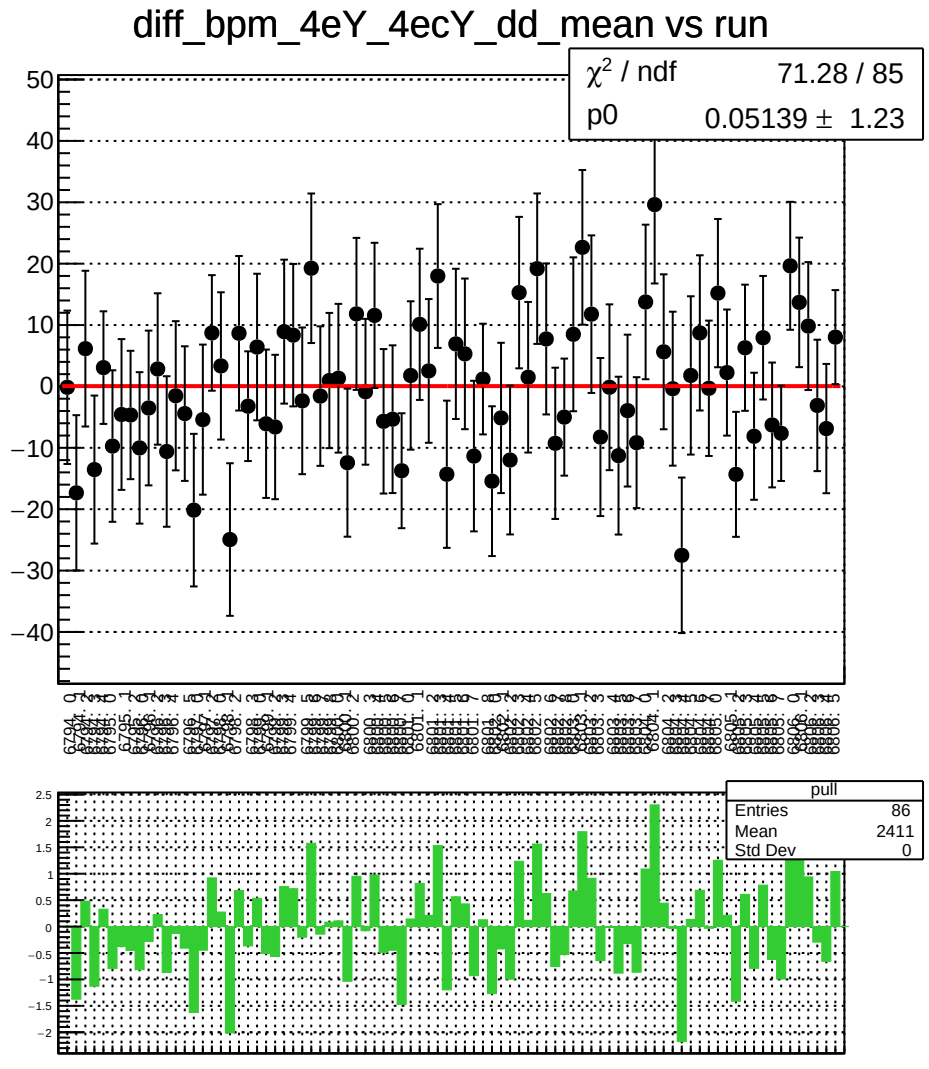

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 73.9 / 85
p0 0.935 ± 2.295
pull
Entries 86
Mean 76.23
Std Dev 0
pull1D
Entries 86
Mean 0.027
Std Dev 0.9266

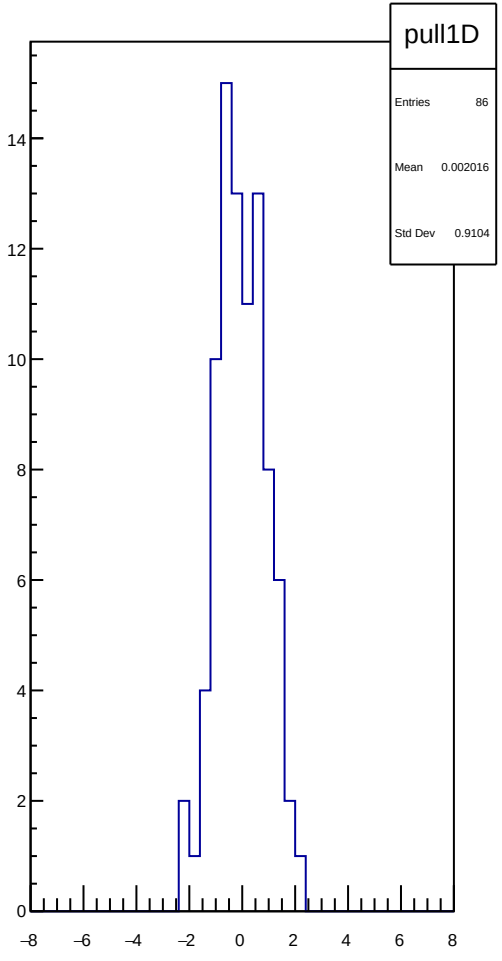

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 6.922e+04 / 85
p0 2061 ± 1.623
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

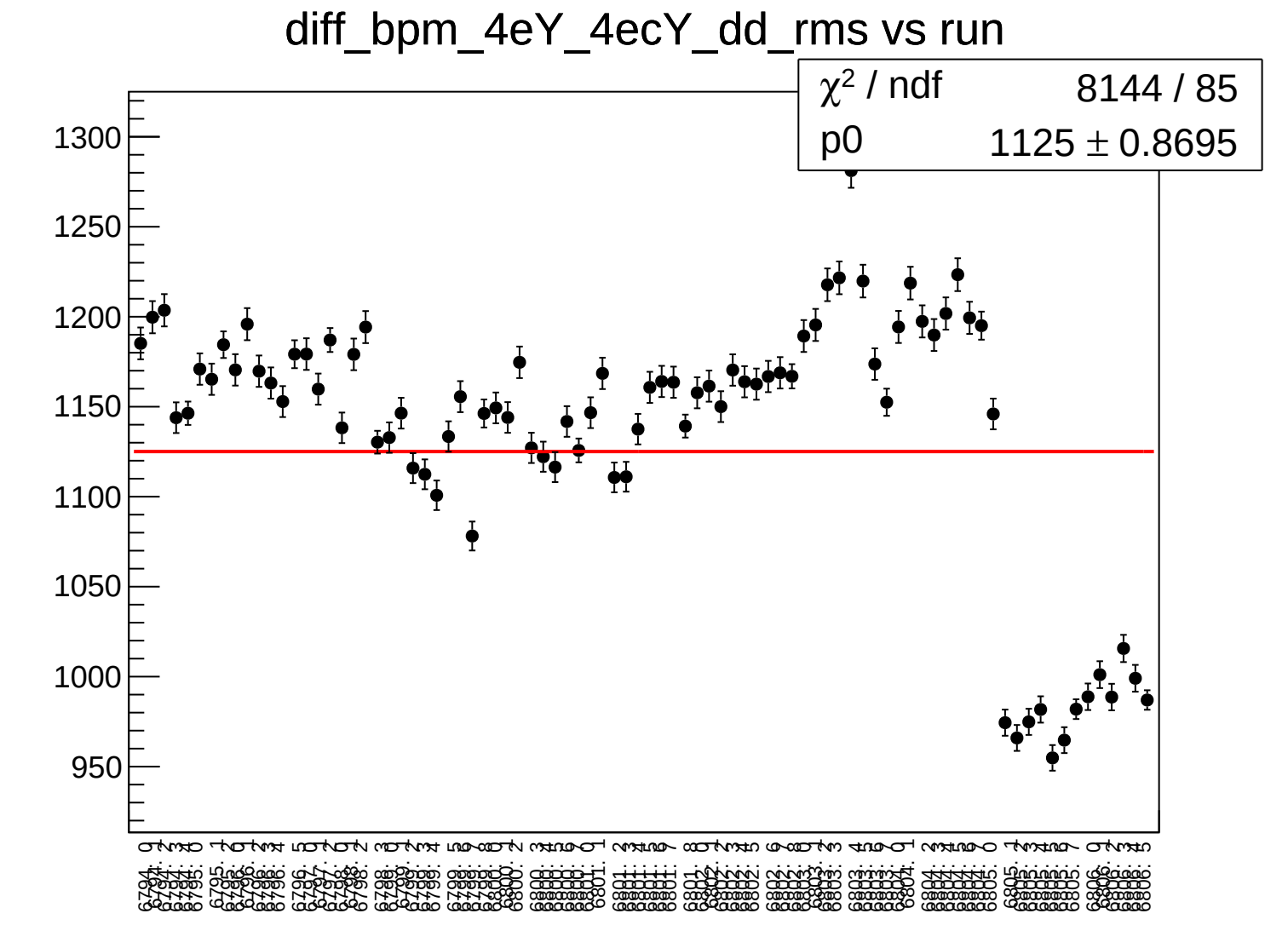

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 69.11 / 85
p0 10.7 ± 8.426
pull
Entries 86
Mean −130
Std Dev 0

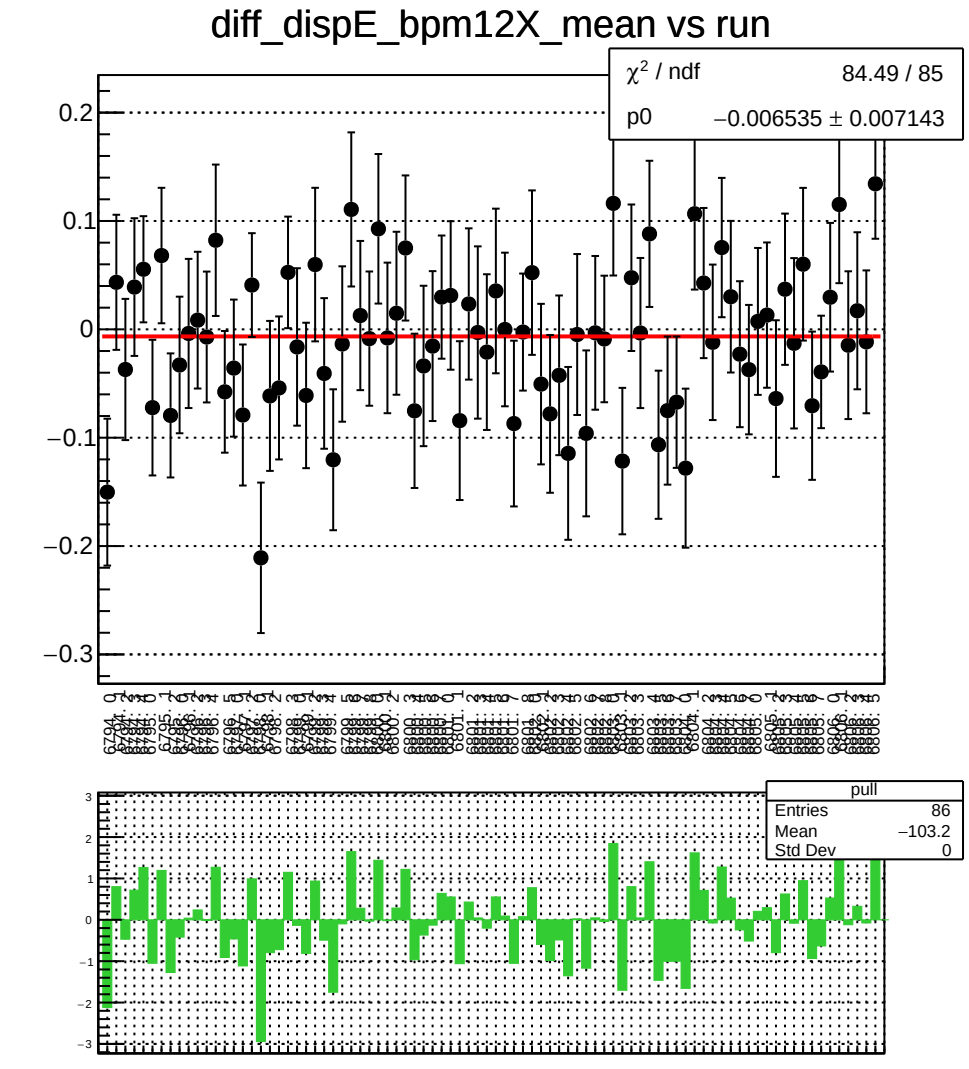

pull1D
Entries 86
Mean 0.01418
Std Dev 0.8964

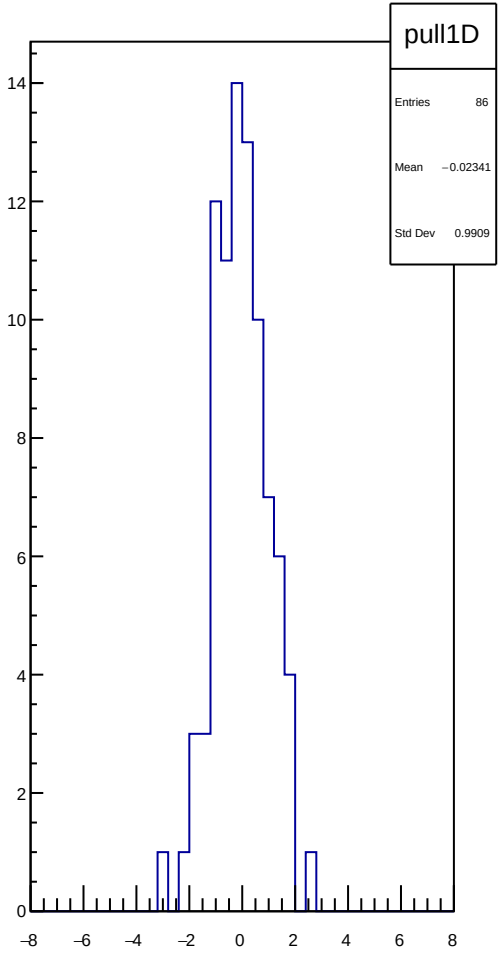

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4.548e+04 / 85
p0 7623 ± 5.958
11000
10000
9000
8000
7000
6000
5000

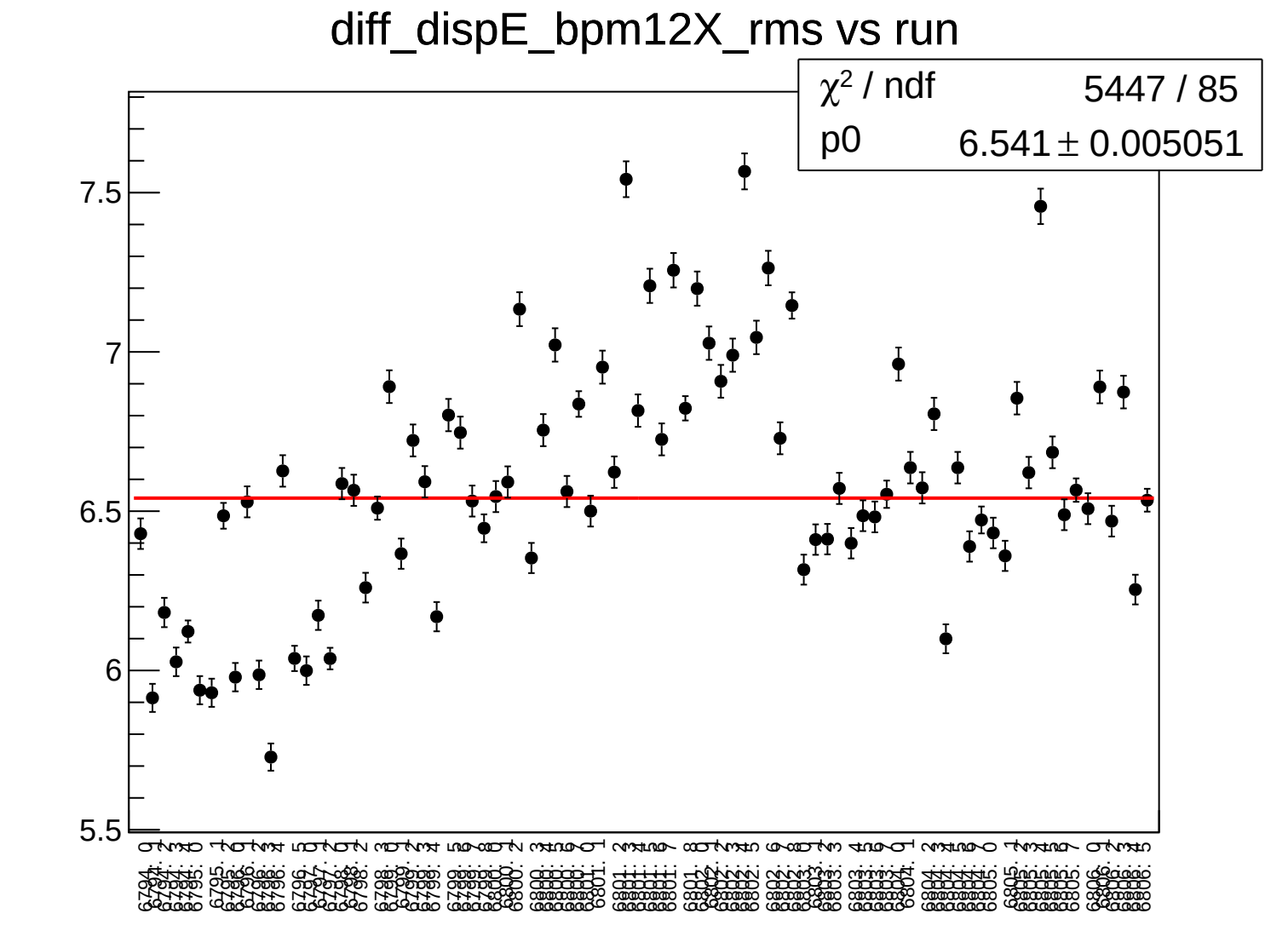

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 71.28 / 85
p0 0.05139 ± 1.23
pull
Entries 86
Mean 2411
Std Dev 0

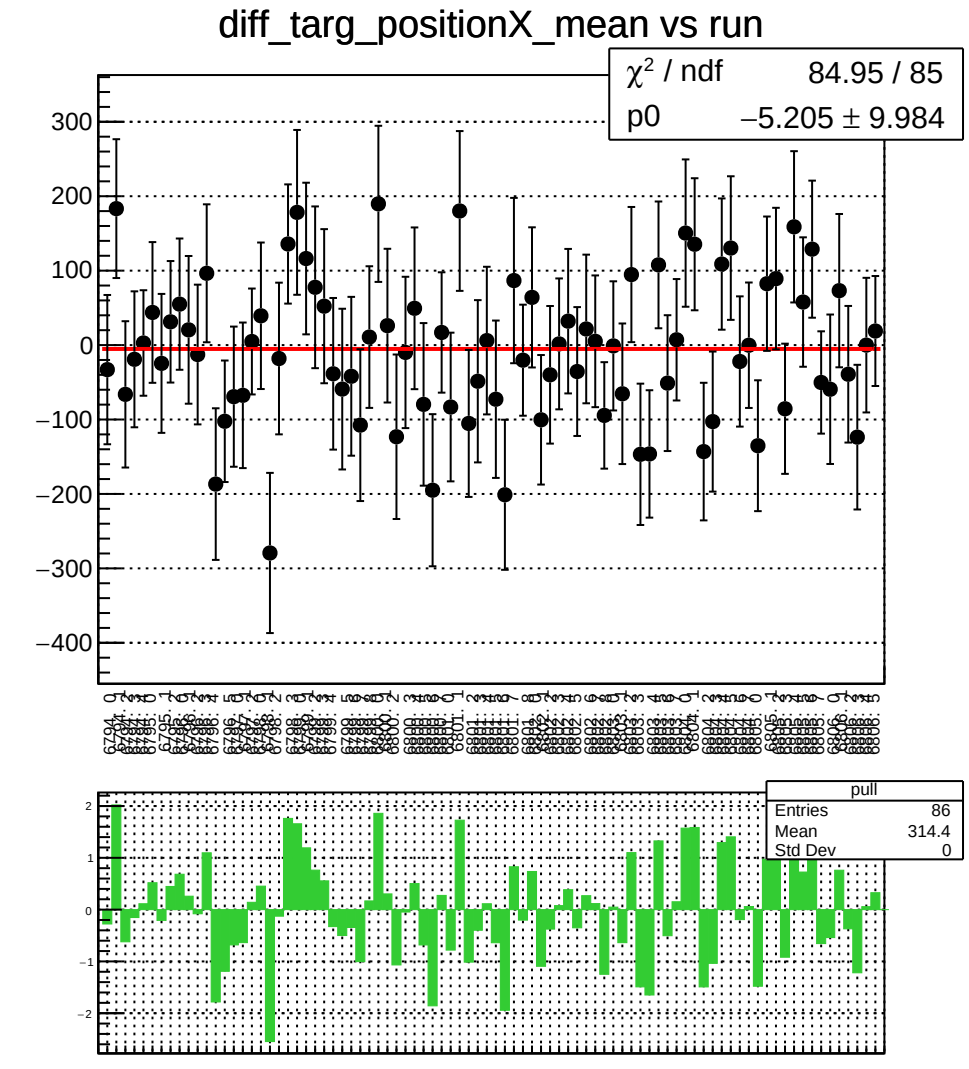

pull1D
Entries 86
Mean 0.002016
Std Dev 0.9104

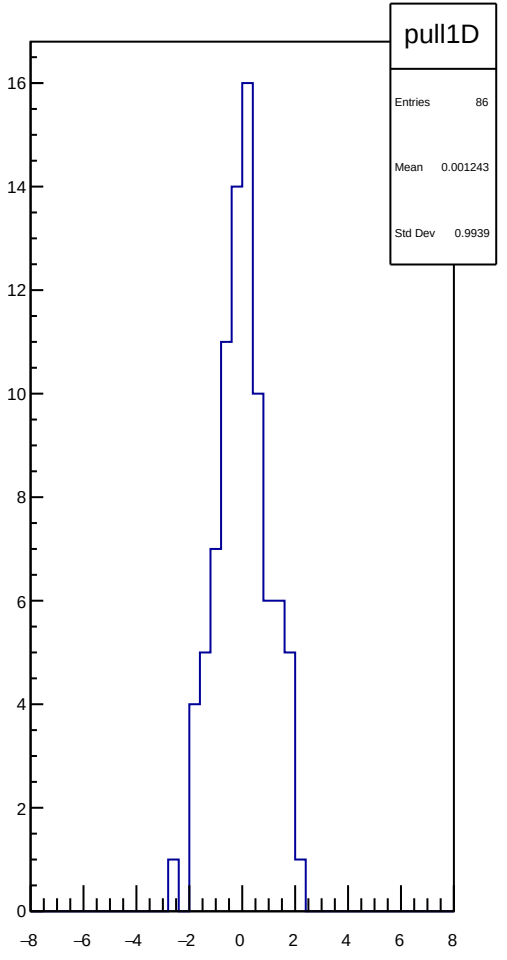

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 8144 / 85
p0 1125 ± 0.8695
1300
1250
1200
1150
1100
1050
1000
950

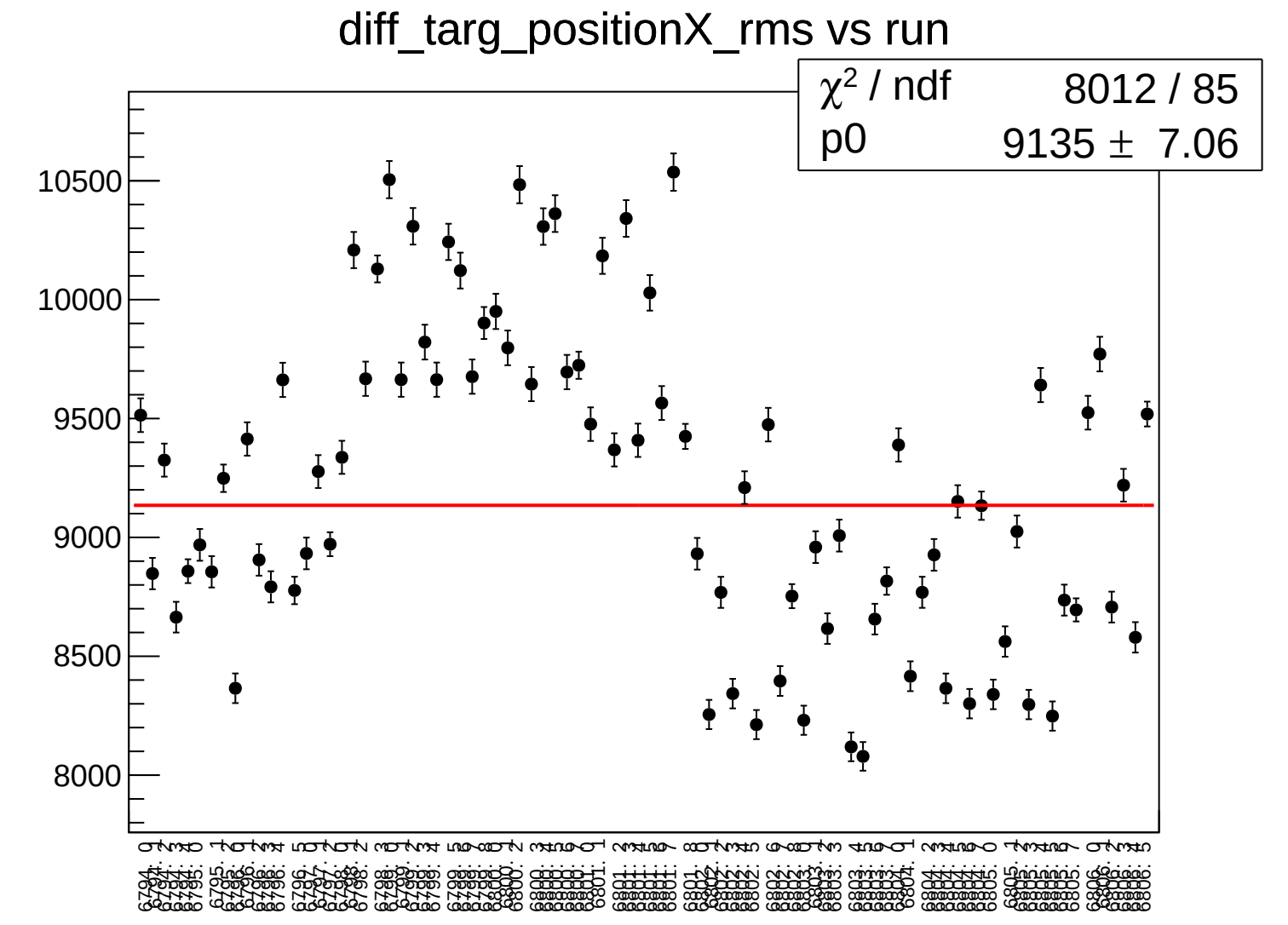

diff_dispE_bpm12X_mean vs run
χ² / ndf 84.49 / 85
p0 −0.006535 ± 0.007143
pull
Entries 86
Mean −103.2
Std Dev 0

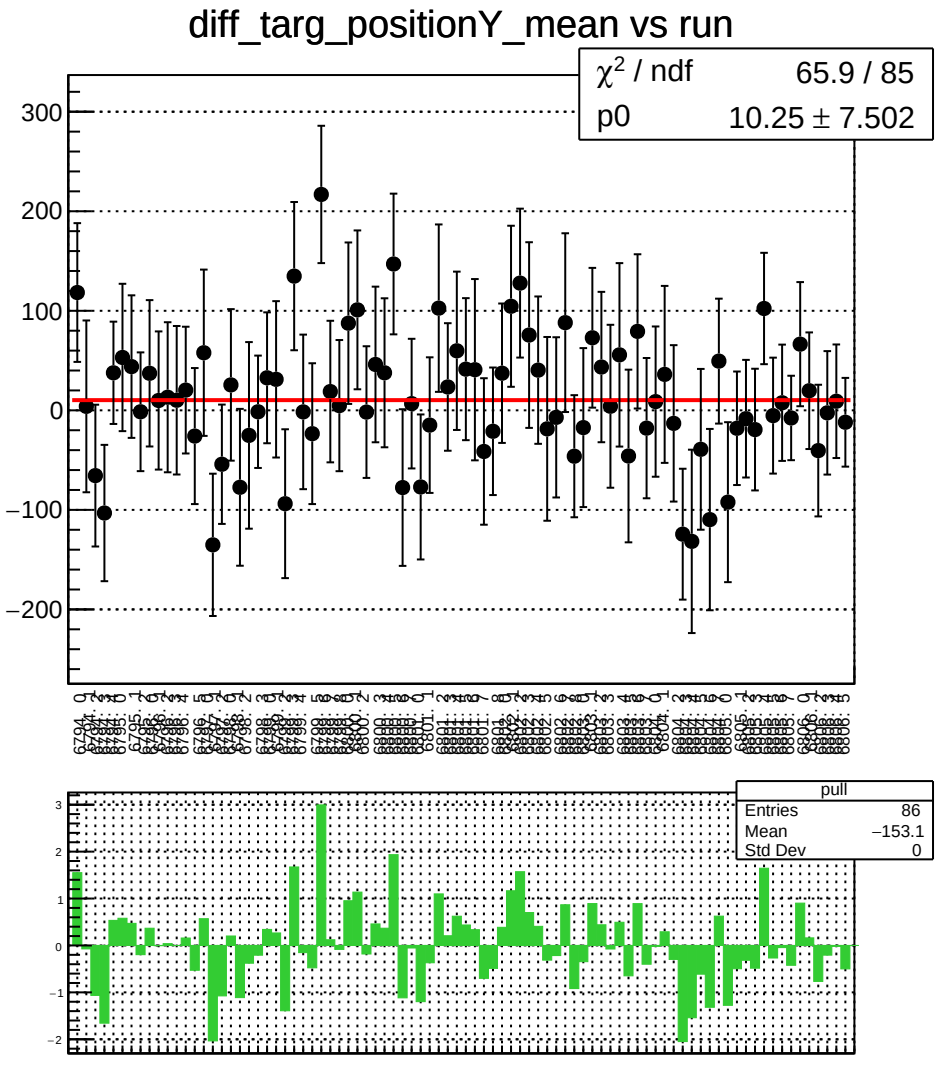

pull1D
Entries 86
Mean −0.02341
Std Dev 0.9909

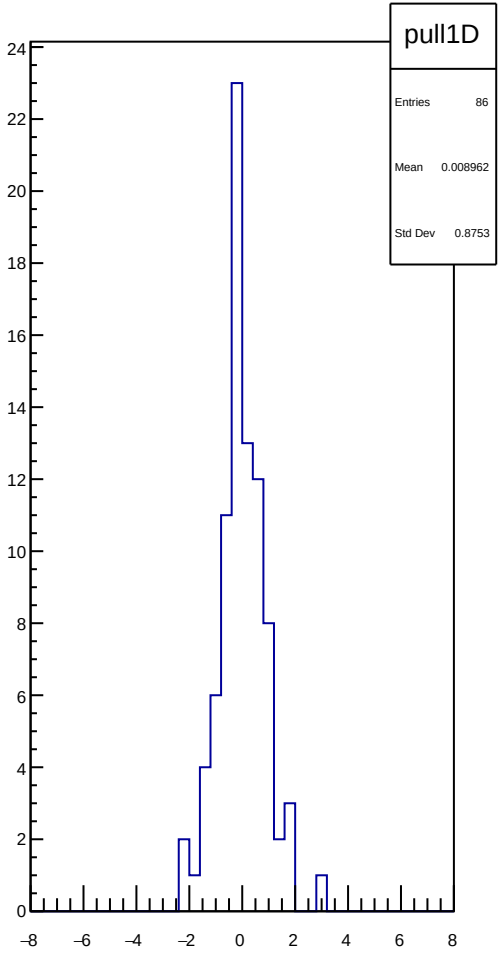

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 5447 / 85
p0 6.541 ± 0.005051
7.5
7
6.5
6
5.5

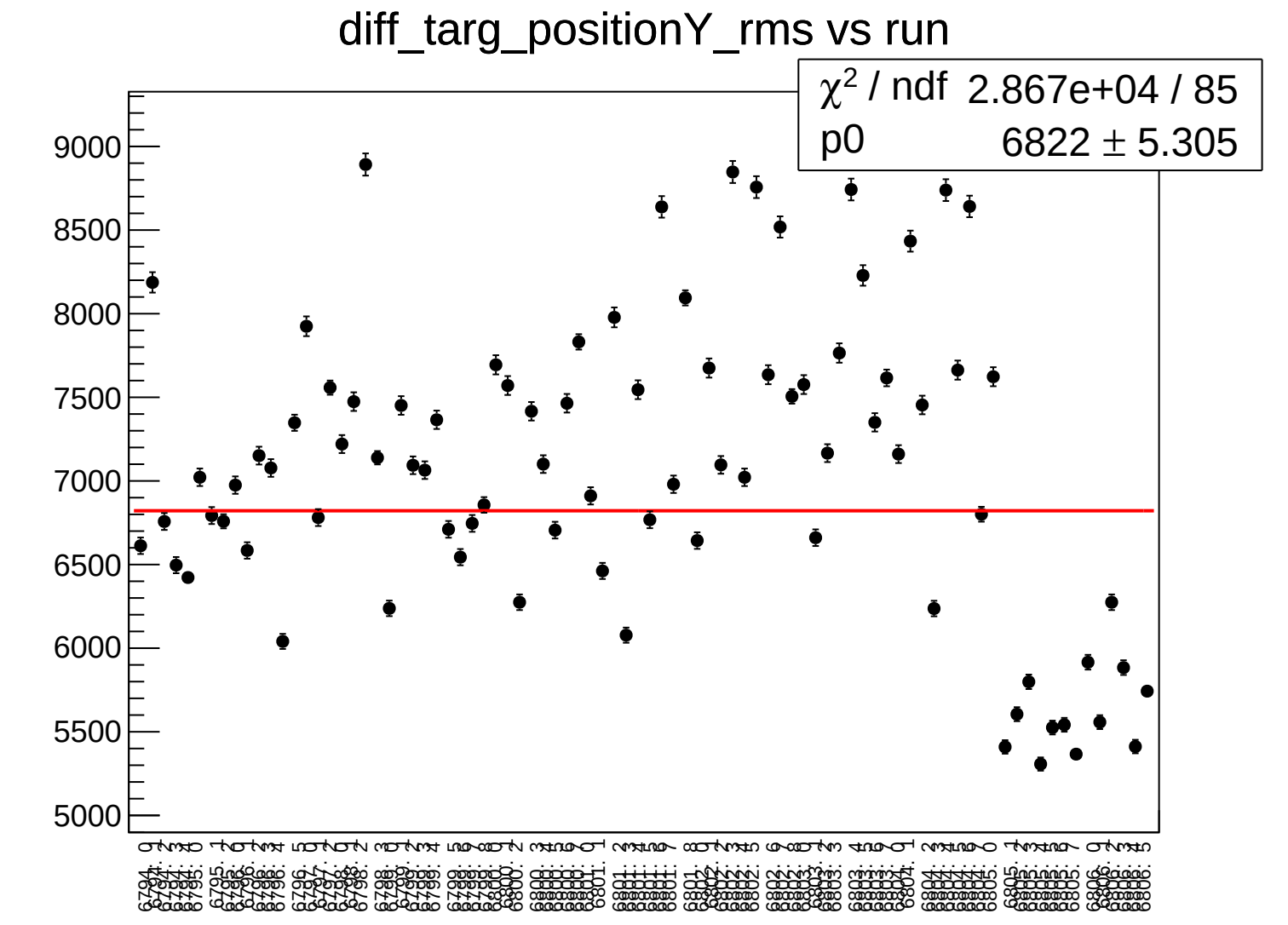

diff_targ_positionX_mean vs run
χ² / ndf 84.95 / 85
p0 −5.205 ± 9.984
pull
Entries 86
Mean 314.4
Std Dev 0

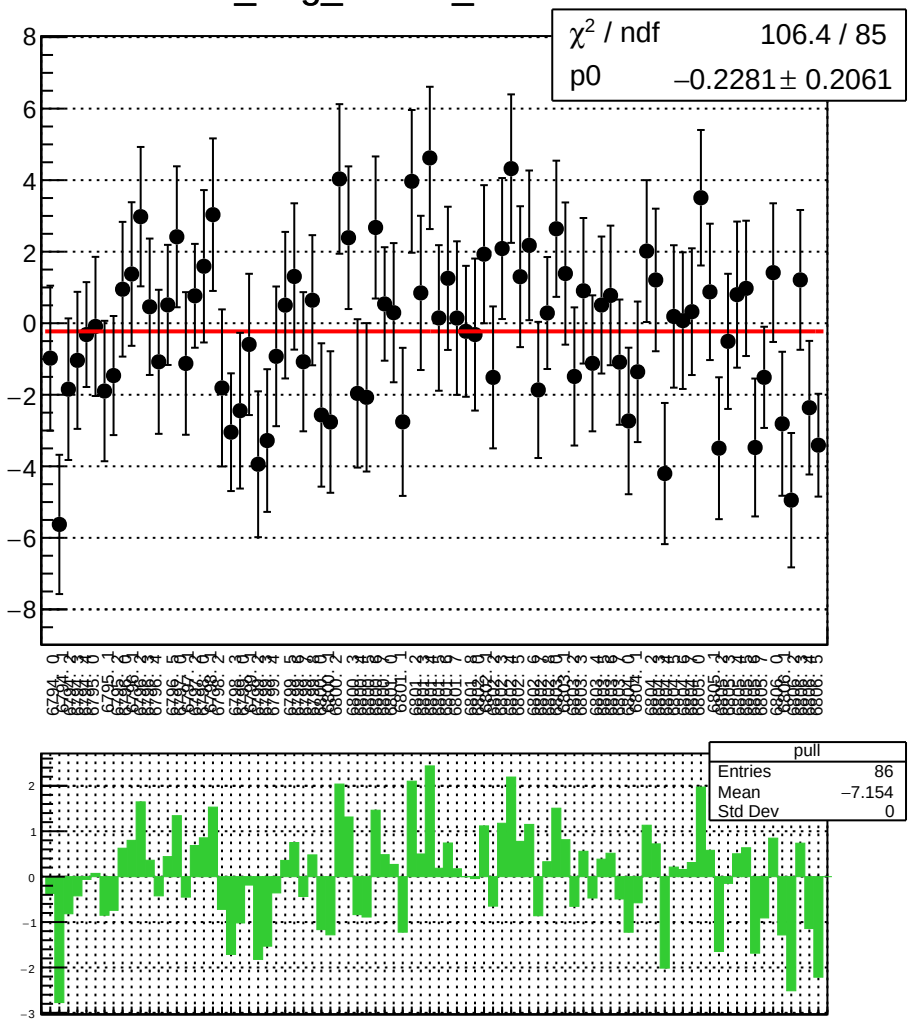

pull1D
Entries 86
Mean 0.001243
Std Dev 0.9939

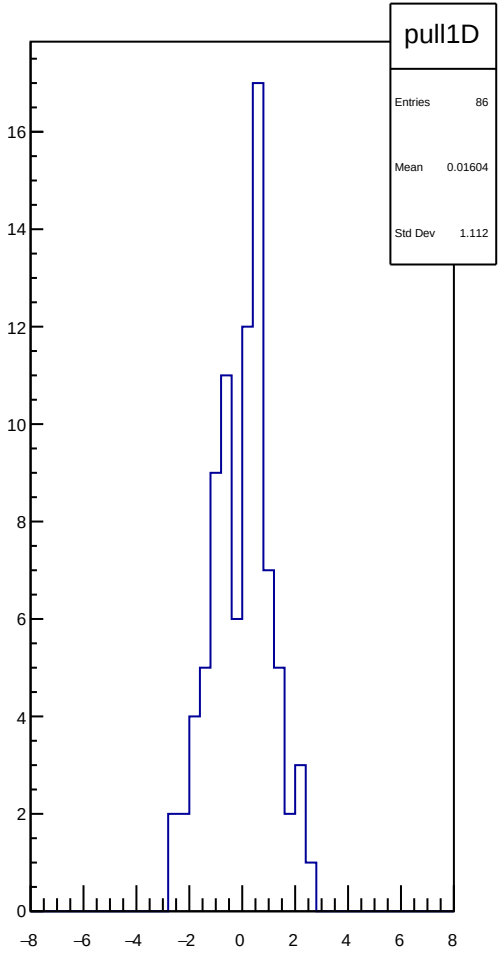

diff_targ_positionX_rms vs run
χ² / ndf 8012 / 85
p0 9135 ± 7.06
10500
10000
9500
9000
8500
8000

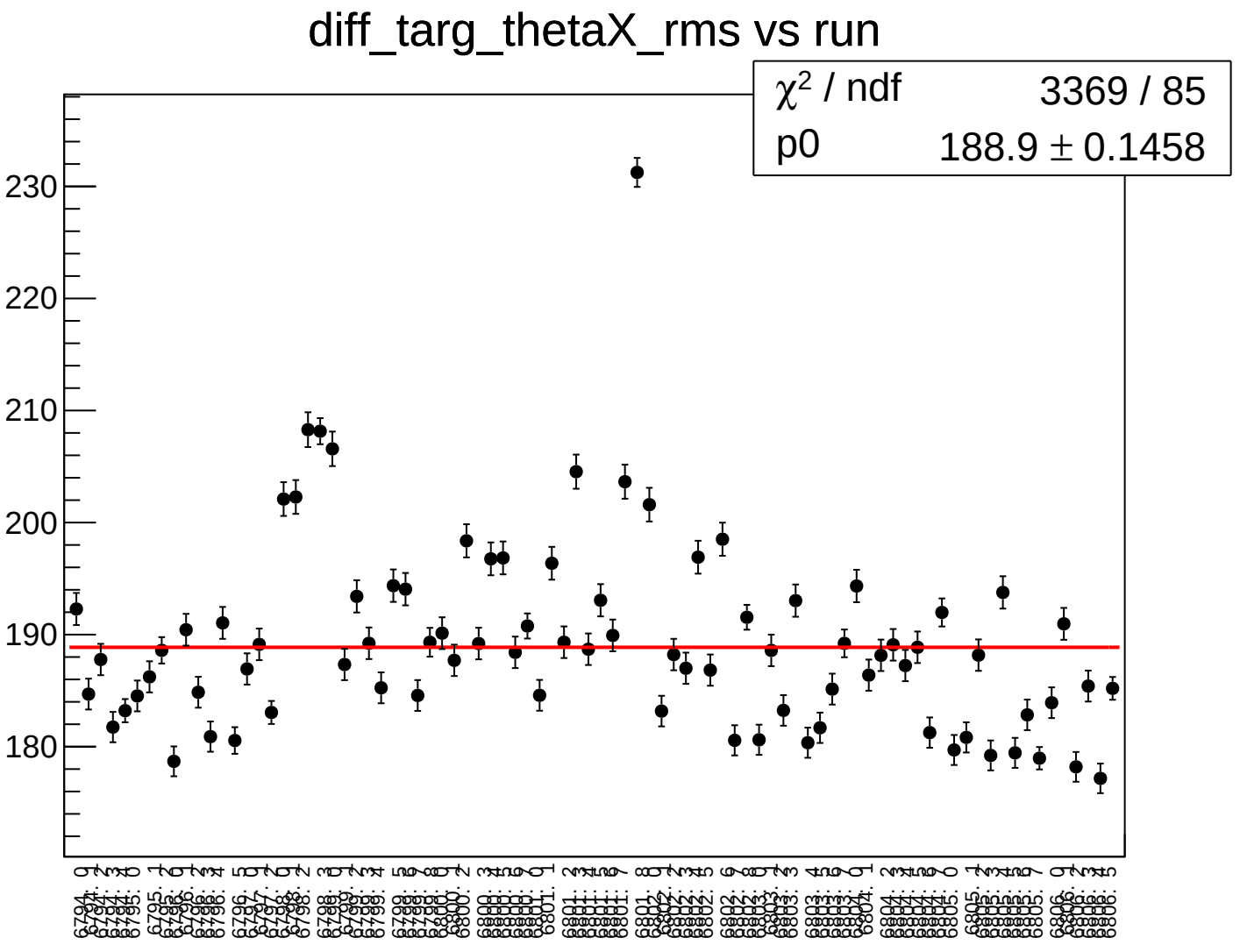

diff_targ_positionY_mean vs run
χ^2 / ndf 65.9 / 85
p0 10.25 ± 7.502
pull
Entries 86
Mean −153.1
Std Dev 0

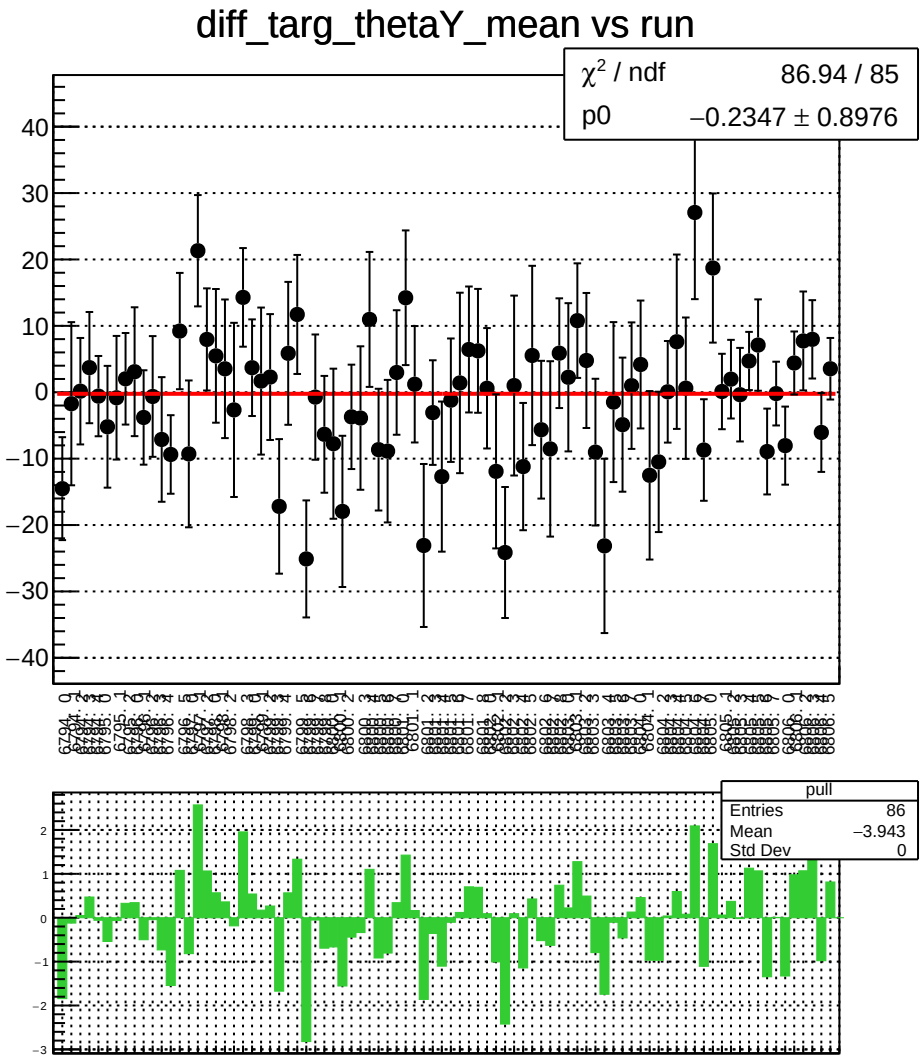

pull1D
Entries 86
Mean 0.008962
Std Dev 0.8753

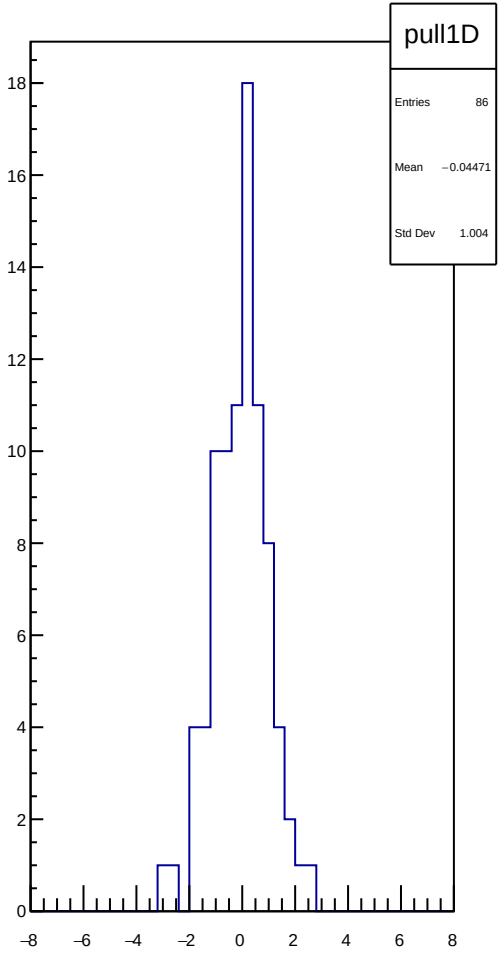

diff_targ_positionY_rms vs run
χ^2 / ndf 2.867e+04 / 85
p0 6822 ± 5.305
9000
8500
8000
7500
7000
6500
6000
5500
5000

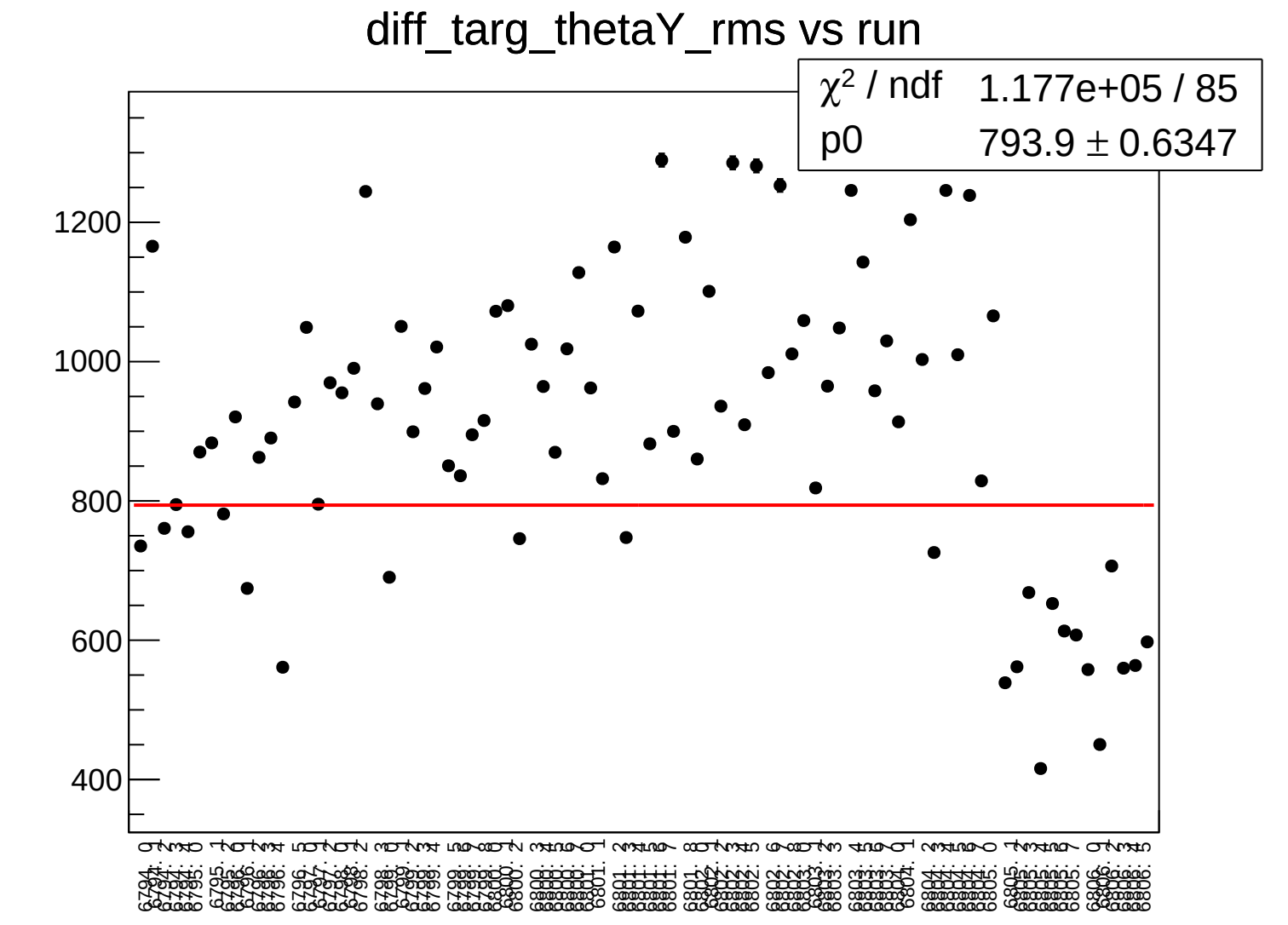

diff_targ_thetaX_mean vs run
χ² / ndf 106.4 / 85
p0 −0.2281 ± 0.2061
pull
Entries 86
Mean −7.154
Std Dev 0

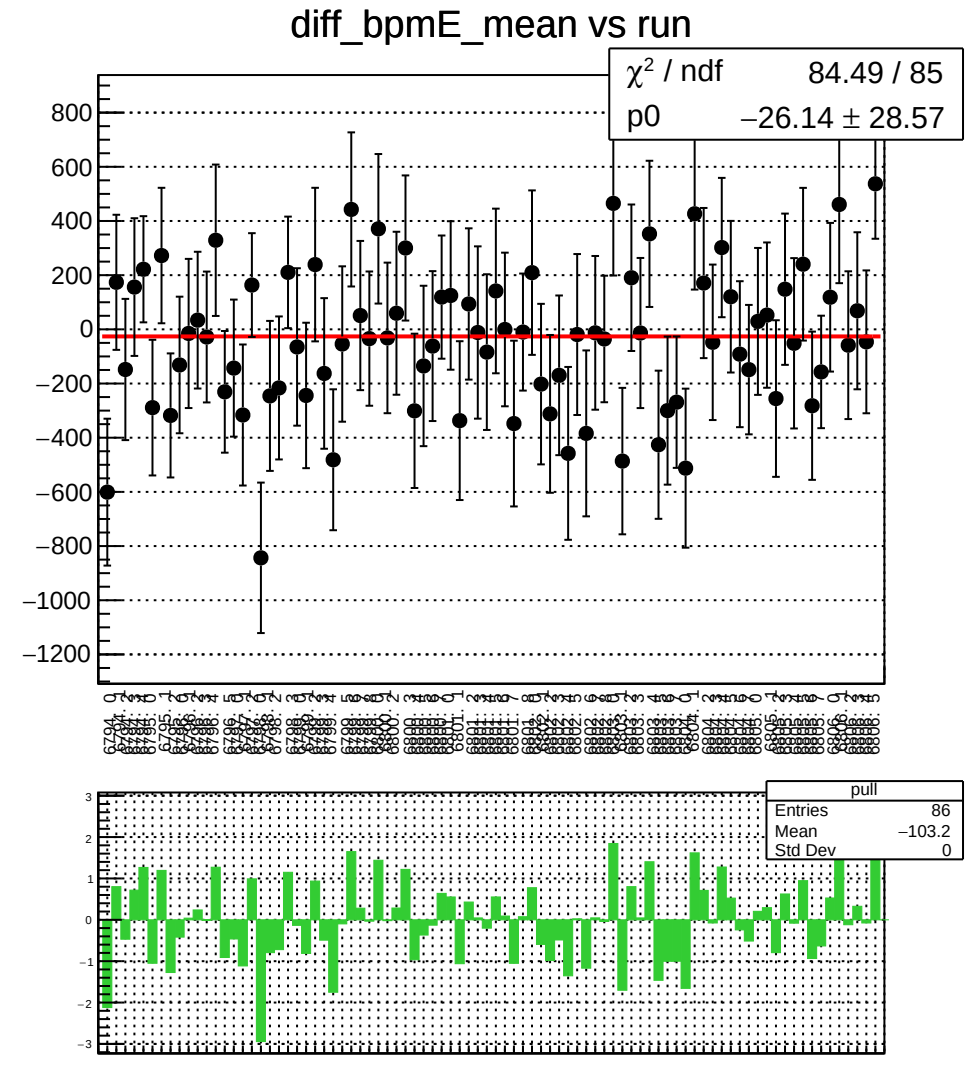

pull1D
Entries 86
Mean 0.01604
Std Dev 1.112

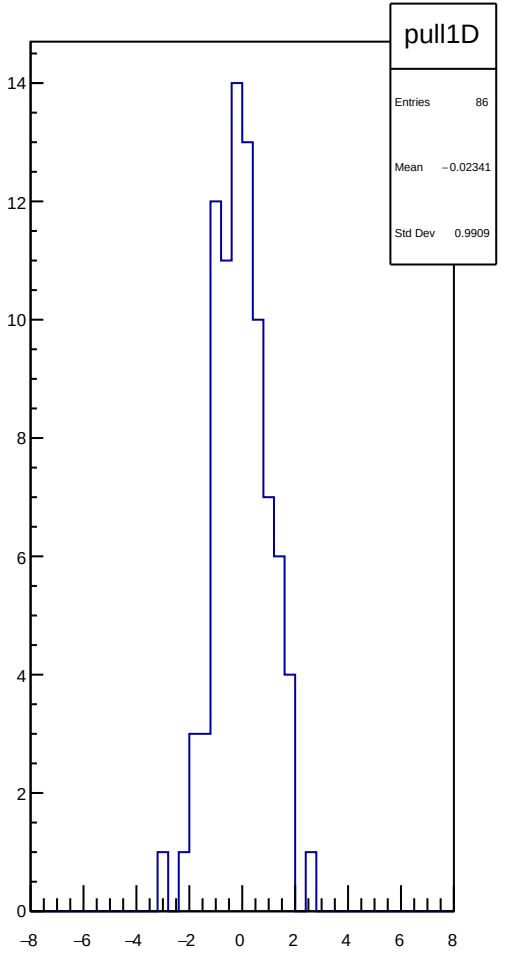

diff_targ_thetaX_rms vs run
χ² / ndf 3369 / 85
p0 188.9 ± 0.1458
230
220
210
200
190
180

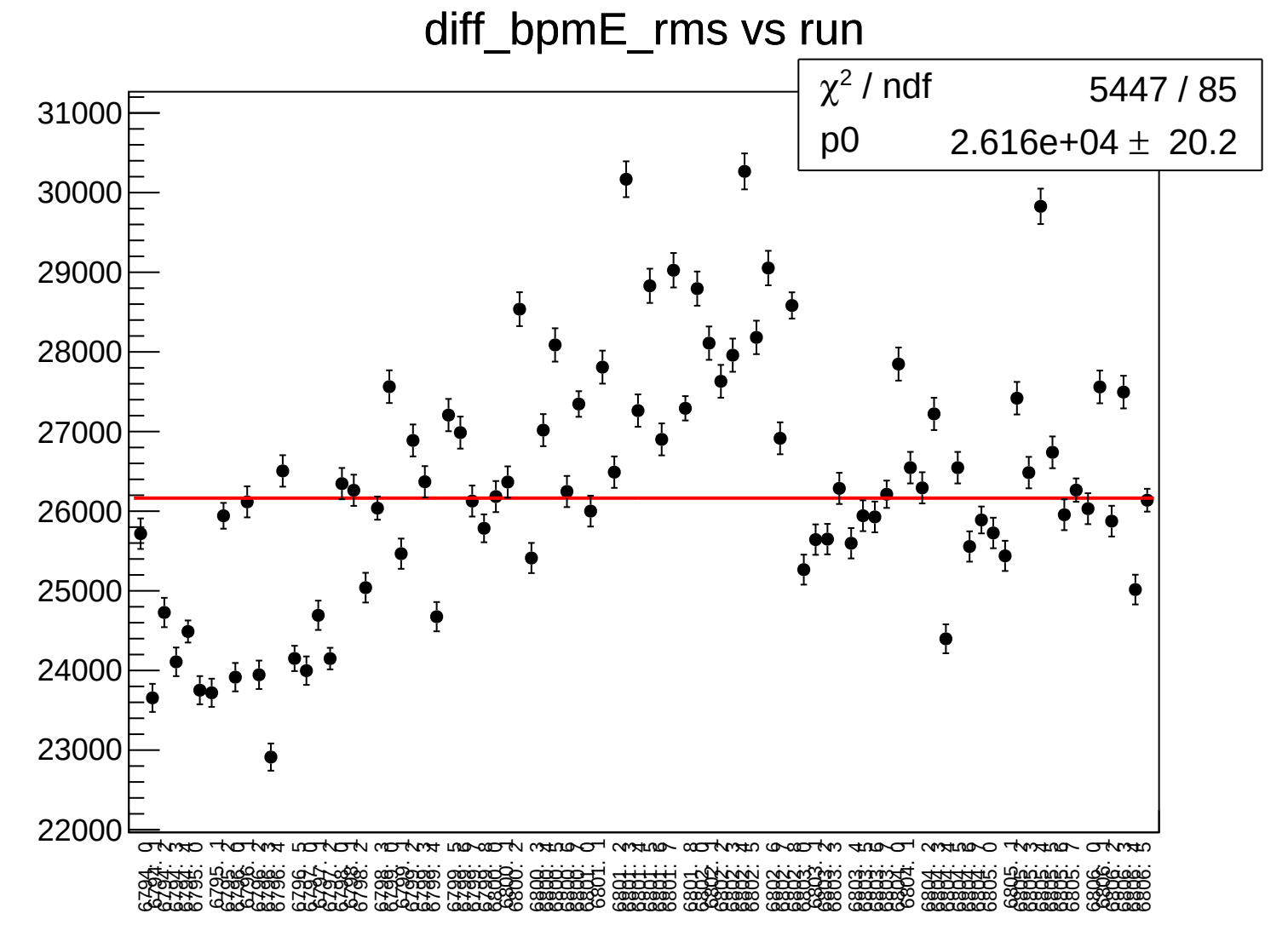

diff_targ_thetaY_mean vs run
χ² / ndf 86.94 / 85
p0 −0.2347 ± 0.8976
pull
Entries 86
Mean −3.943
Std Dev 0

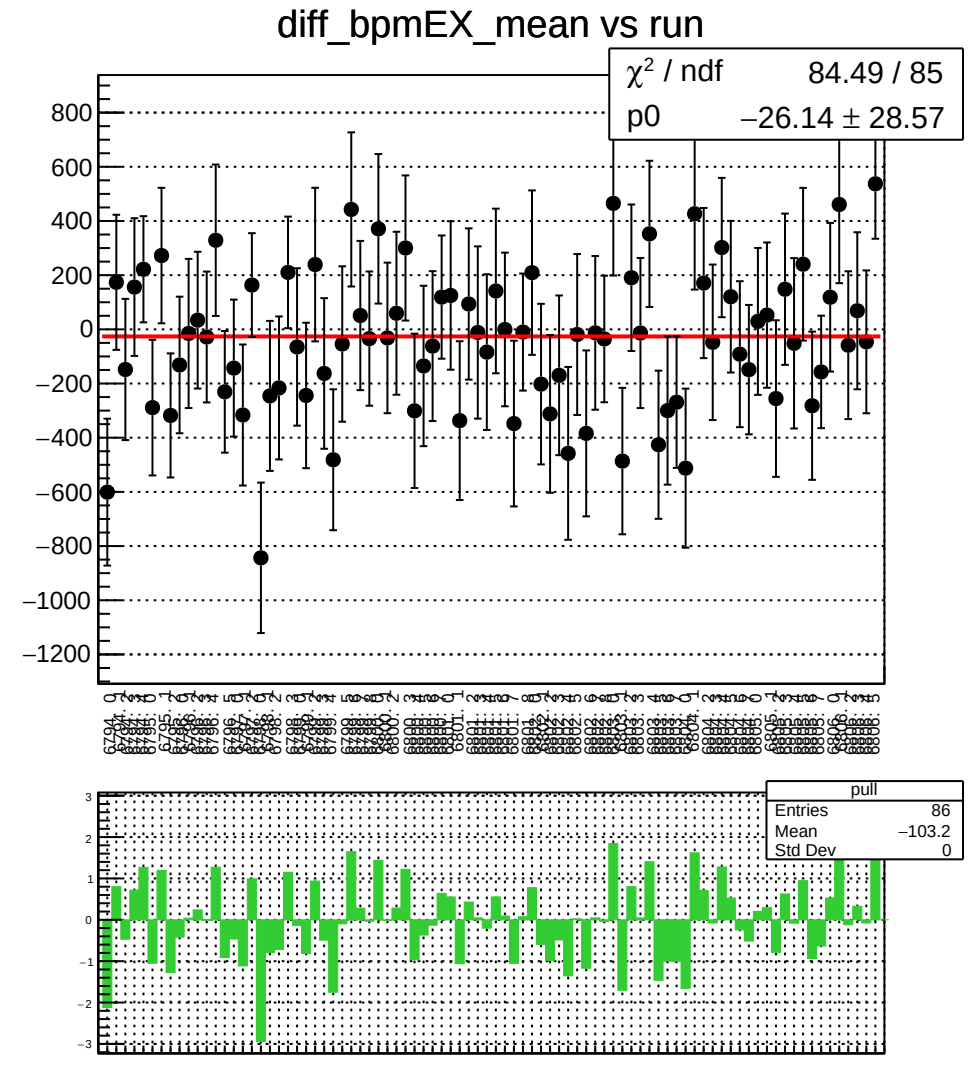

pull1D
Entries 86
Mean −0.04471
Std Dev 1.004

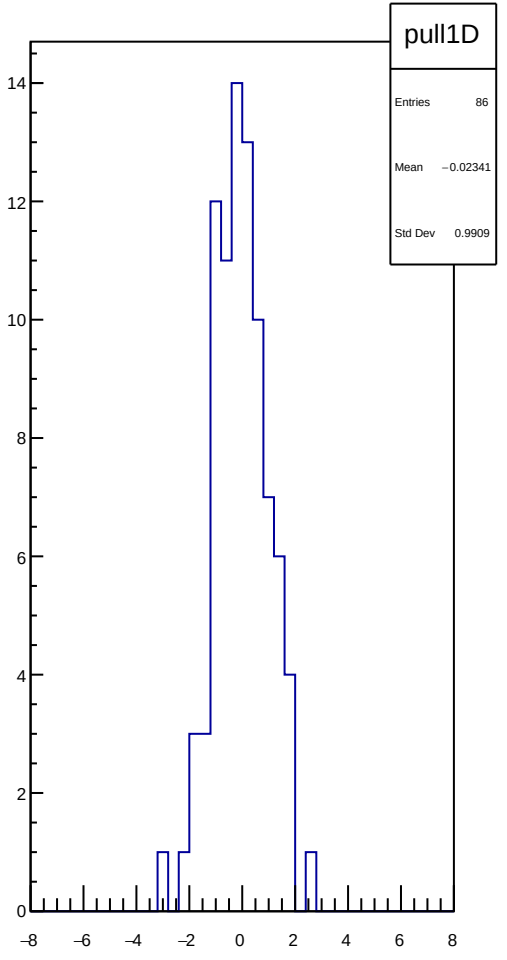

diff_targ_thetaY_rms vs run
χ² / ndf 1.177e+05 / 85
p0 793.9 ± 0.6347
1200
1000
800
600
400

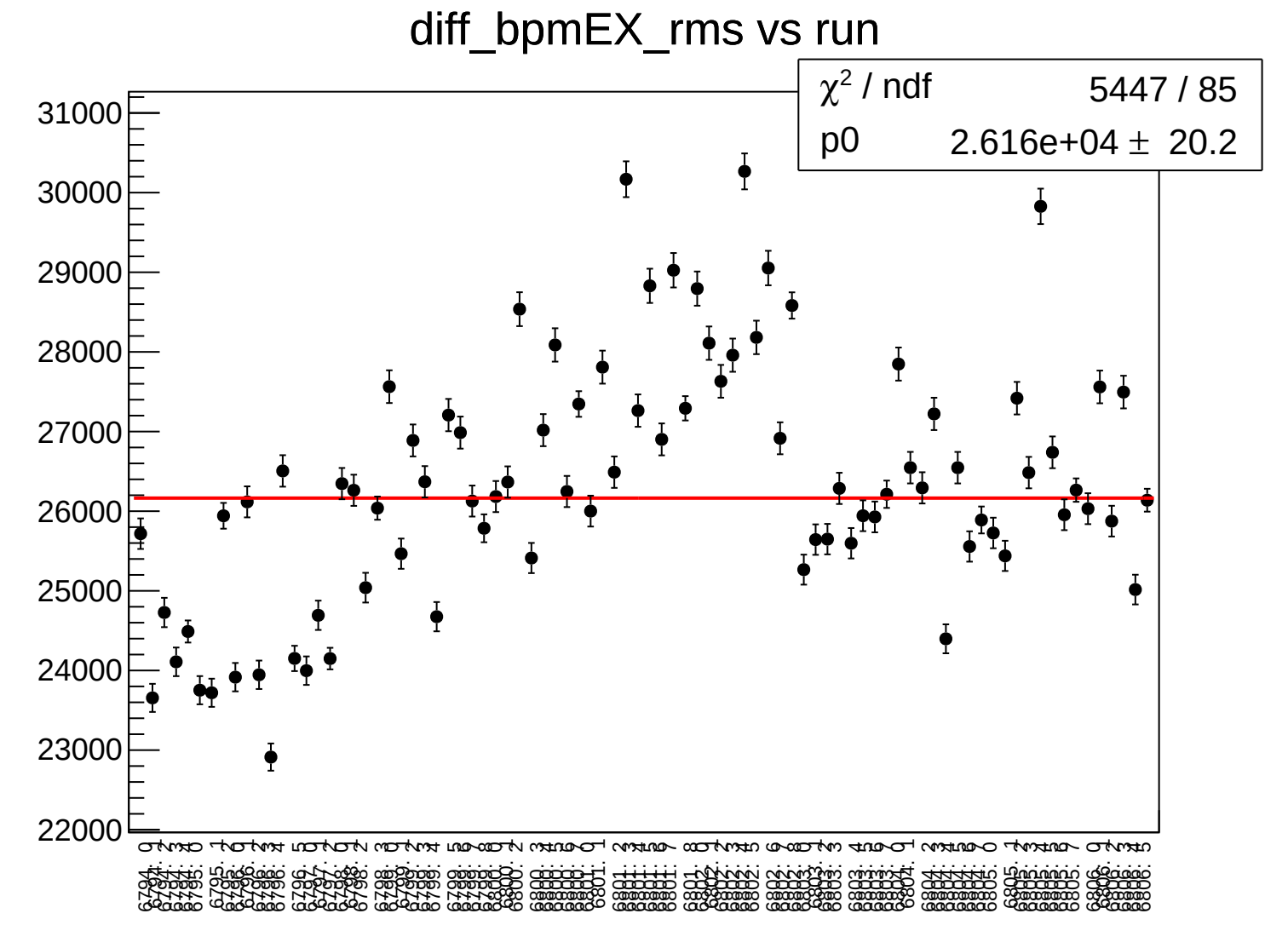

diff_bpmE_mean vs run
χ² / ndf 84.49 / 85
p0 −26.14 ± 28.57
pull
Entries 86
Mean −103.2
Std Dev 0

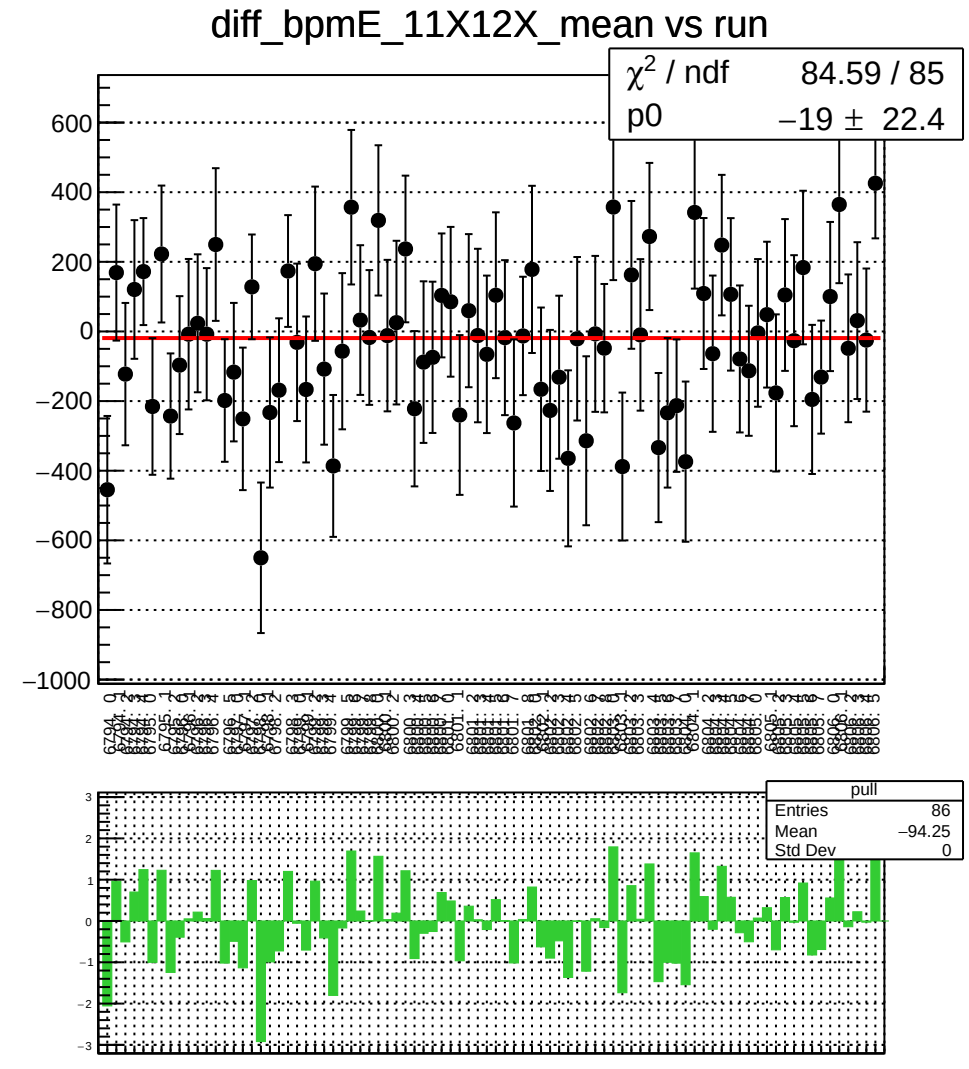

pull1D
Entries 86
Mean −0.02341
Std Dev 0.9909

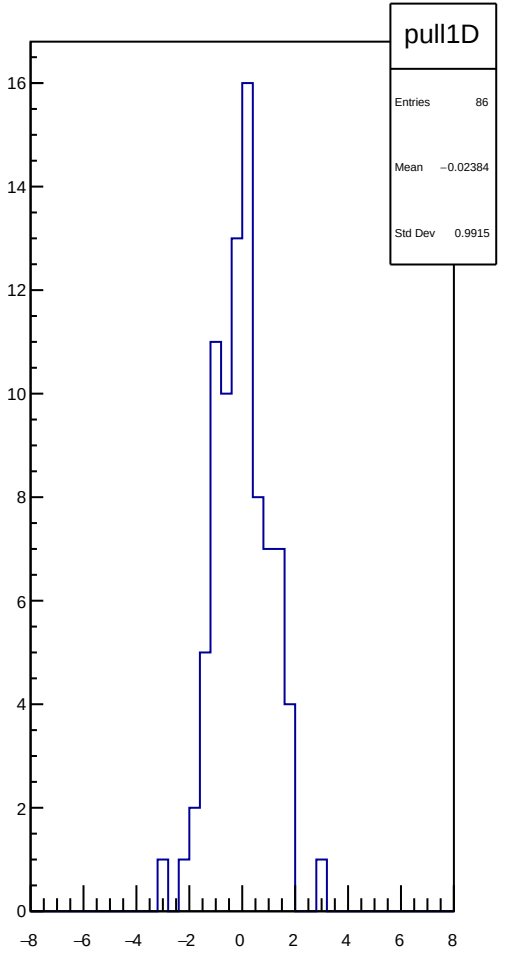

diff_bpmE_rms vs run
χ^2 / ndf 5447 / 85
p0 2.616e+04 ± 20.2
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

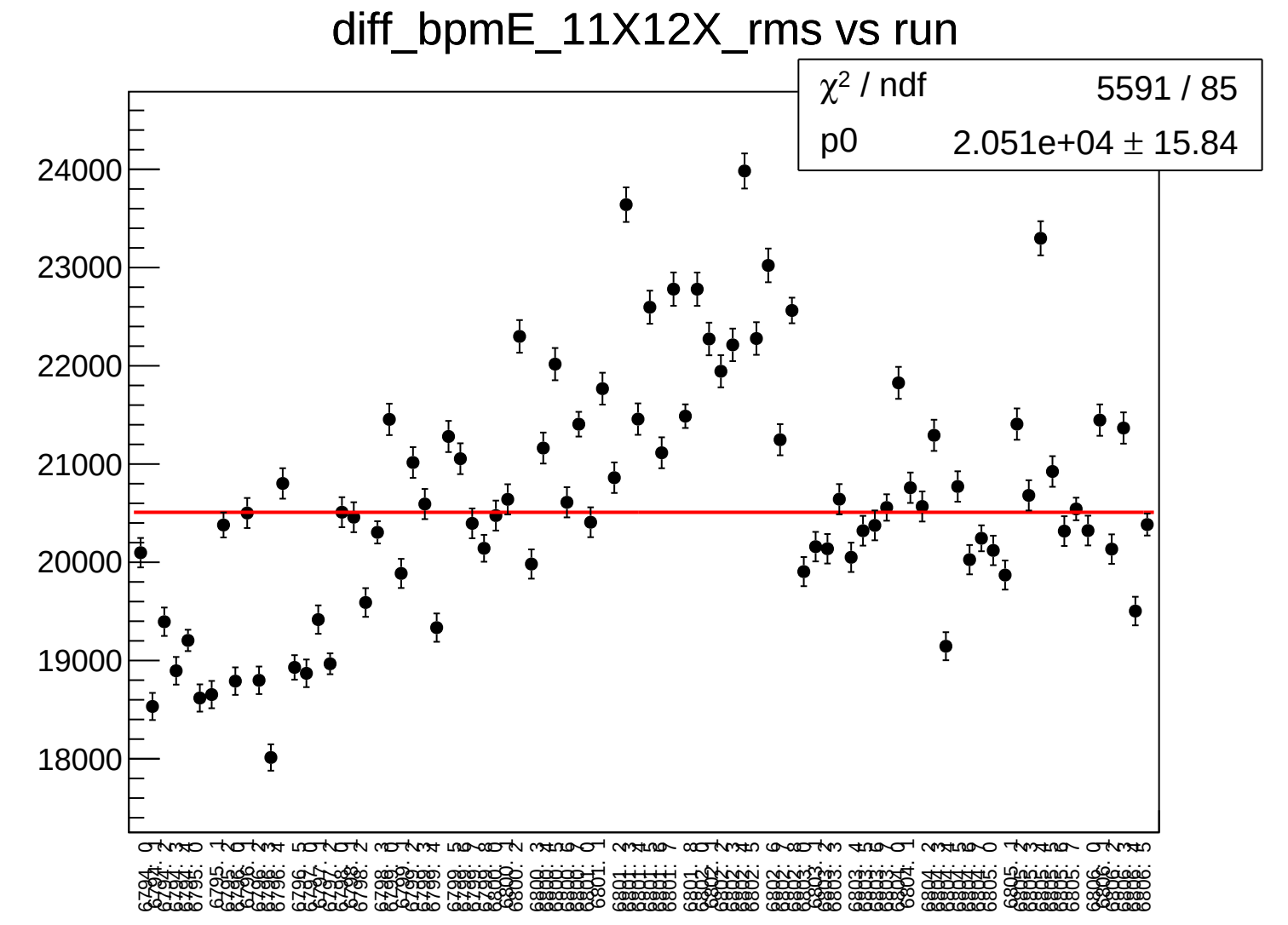

diff_bpmEX_mean vs run
χ² / ndf 84.49 / 85
p0 −26.14 ± 28.57
pull
Entries 86
Mean −103.2
Std Dev 0

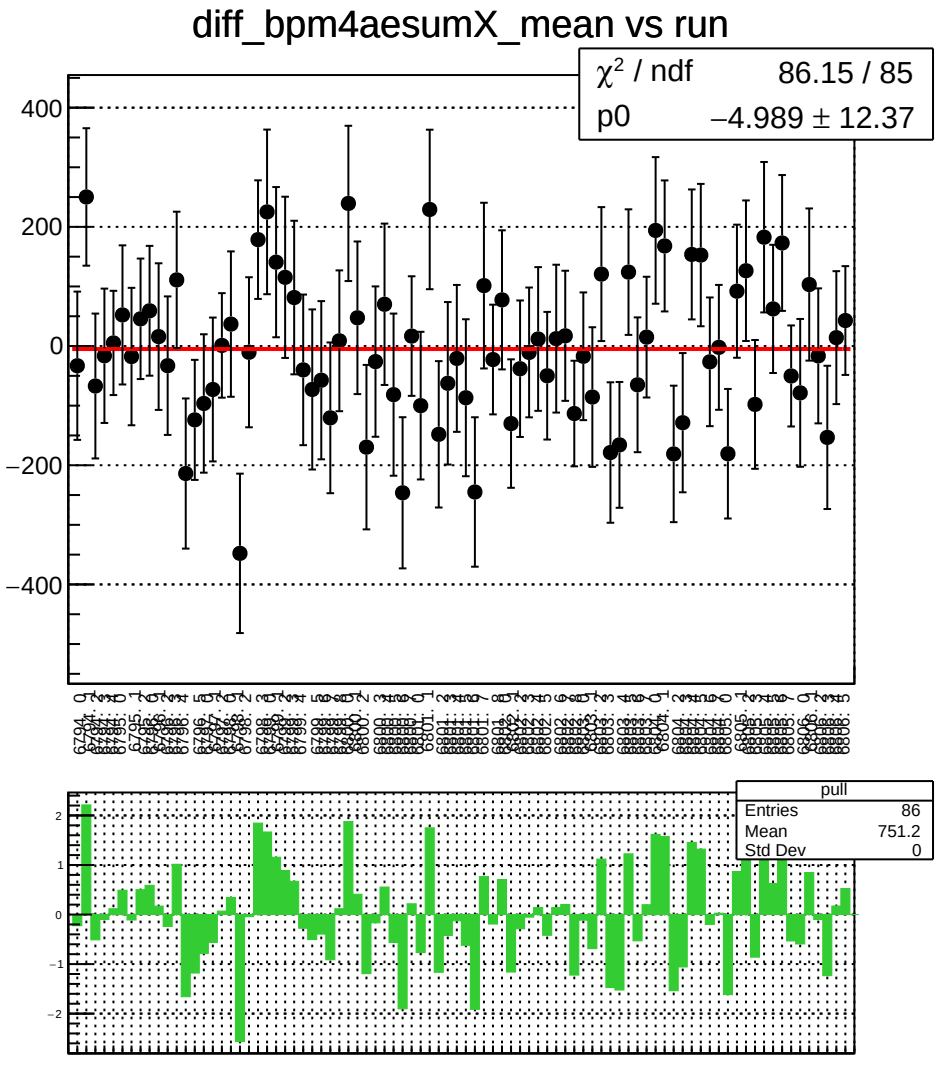

pull1D
Entries 86
Mean −0.02341
Std Dev 0.9909

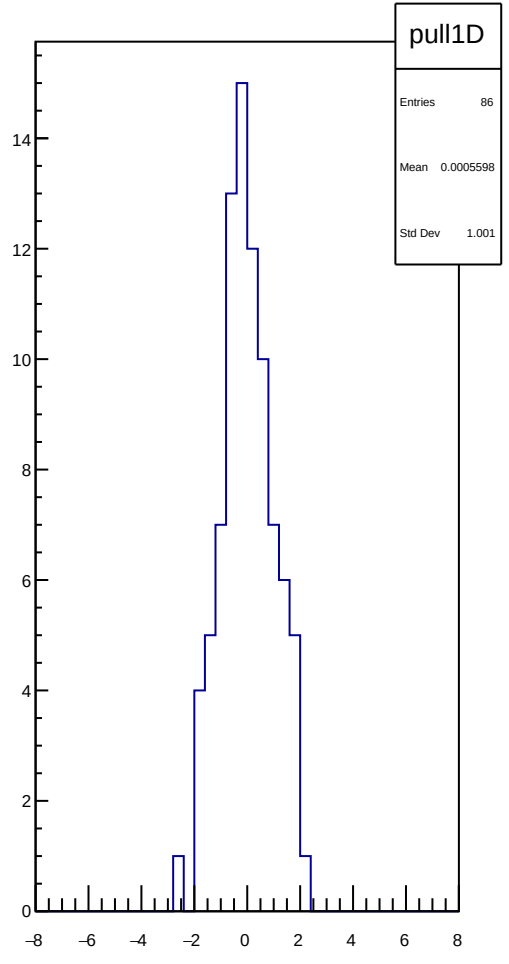

diff_bpmEX_rms vs run
χ² / ndf 5447 / 85
p0 2.616e+04 ± 20.2
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000


diff_bpmE_11X12X_mean vs run
χ² / ndf 84.59 / 85
p0 −19 ± 22.4
pull
Entries 86
Mean −94.25
Std Dev 0

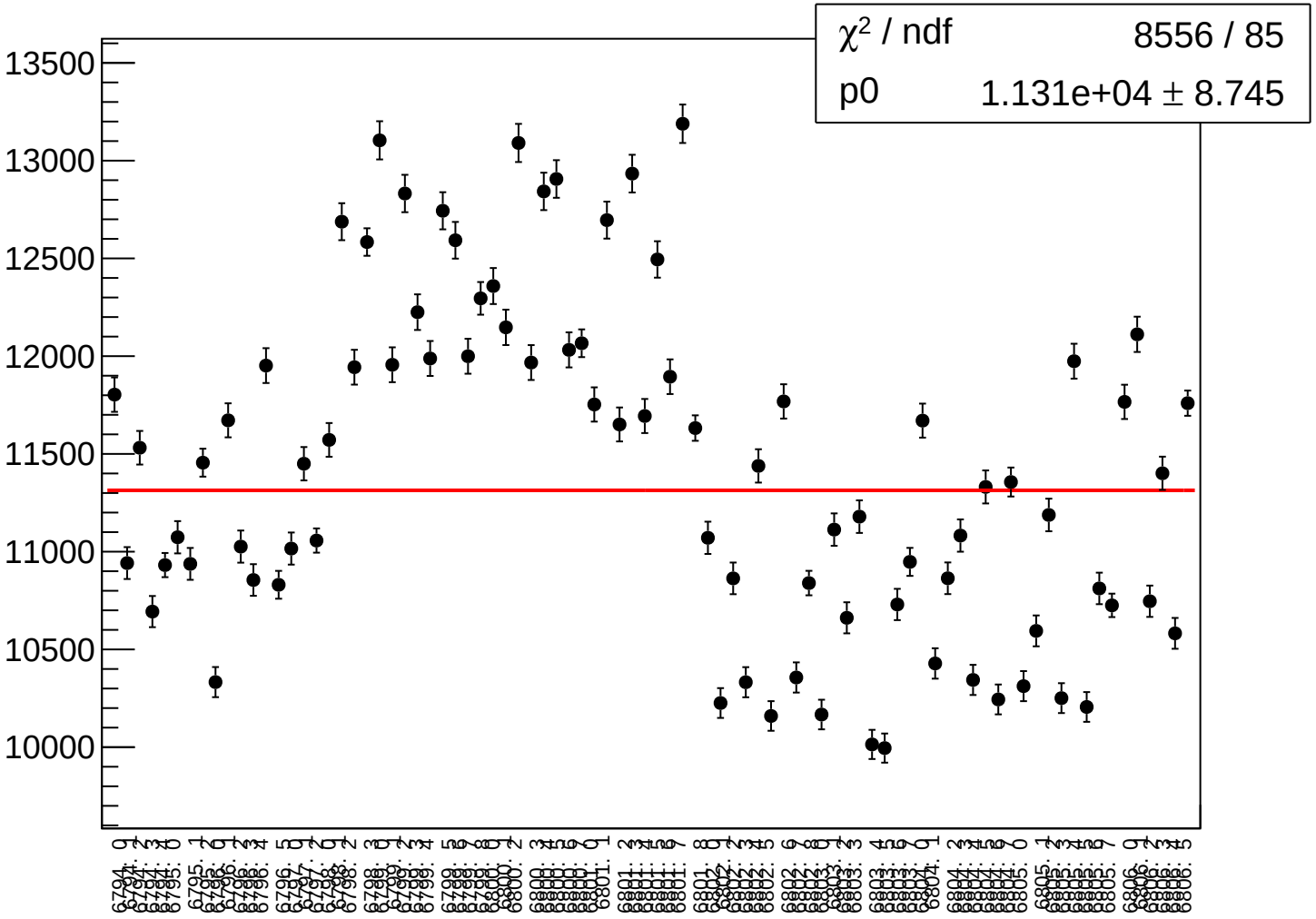

pull1D
Entries 86
Mean −0.02384
Std Dev 0.9915

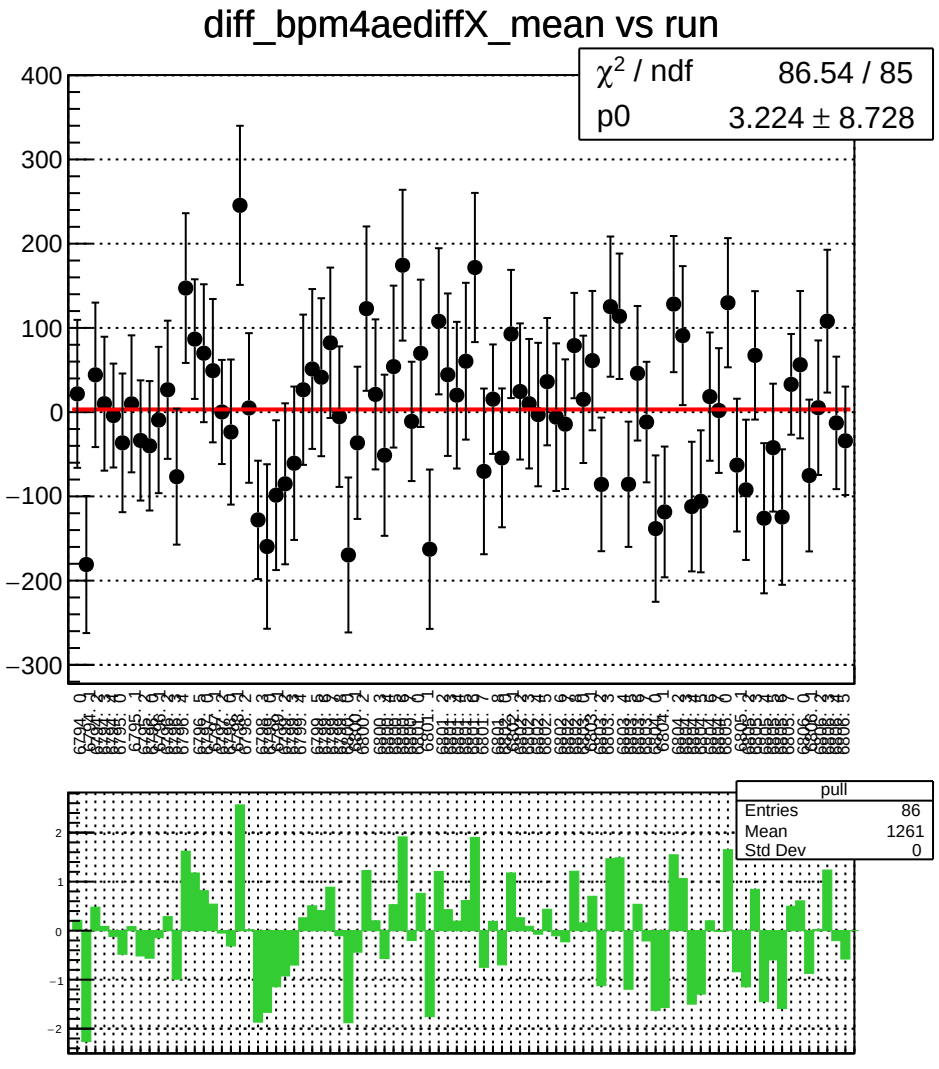

diff_bpmE_11X12X_rms vs run
χ² / ndf 5591 / 85
p0 2.051e+04 ± 15.84
24000
23000
22000
21000
20000
19000
18000

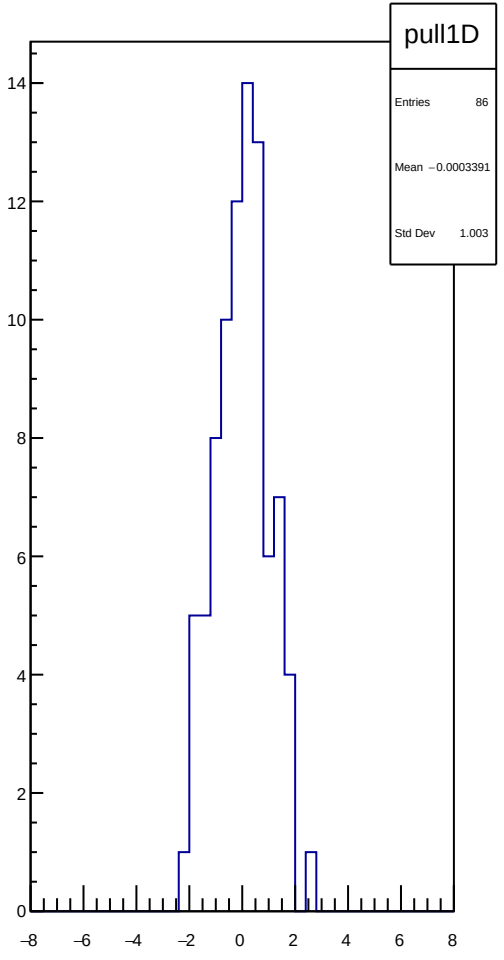

diff_bpm4aesumX_mean vs run
χ² / ndf 86.15 / 85
p0 −4.989 ± 12.37
400
200
0
−200
−400
pull
Entries 86
Mean 751.2
Std Dev 0
2
1
0
−1
−2

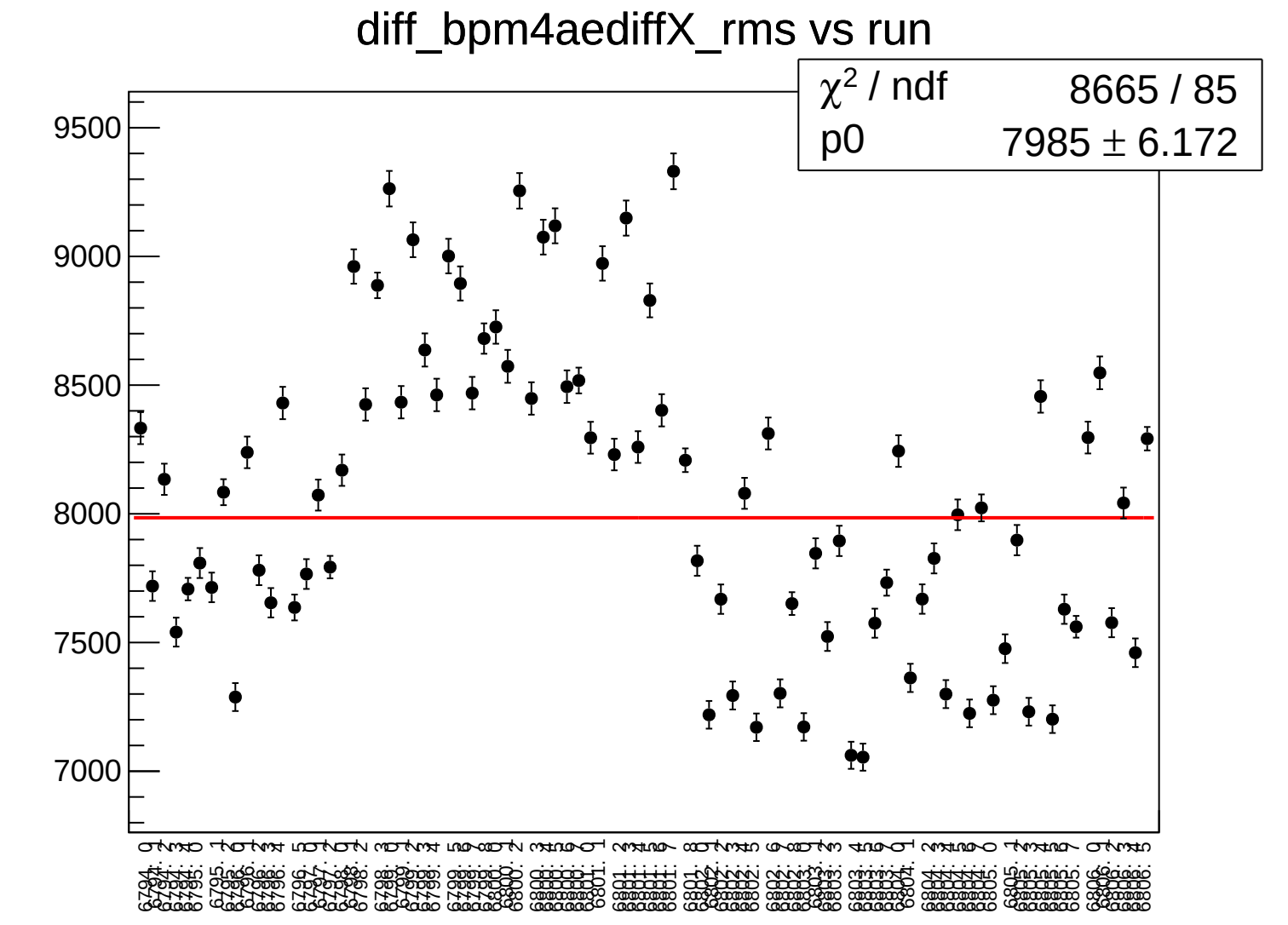

pull1D
Entries 86
Mean 0.0005598
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

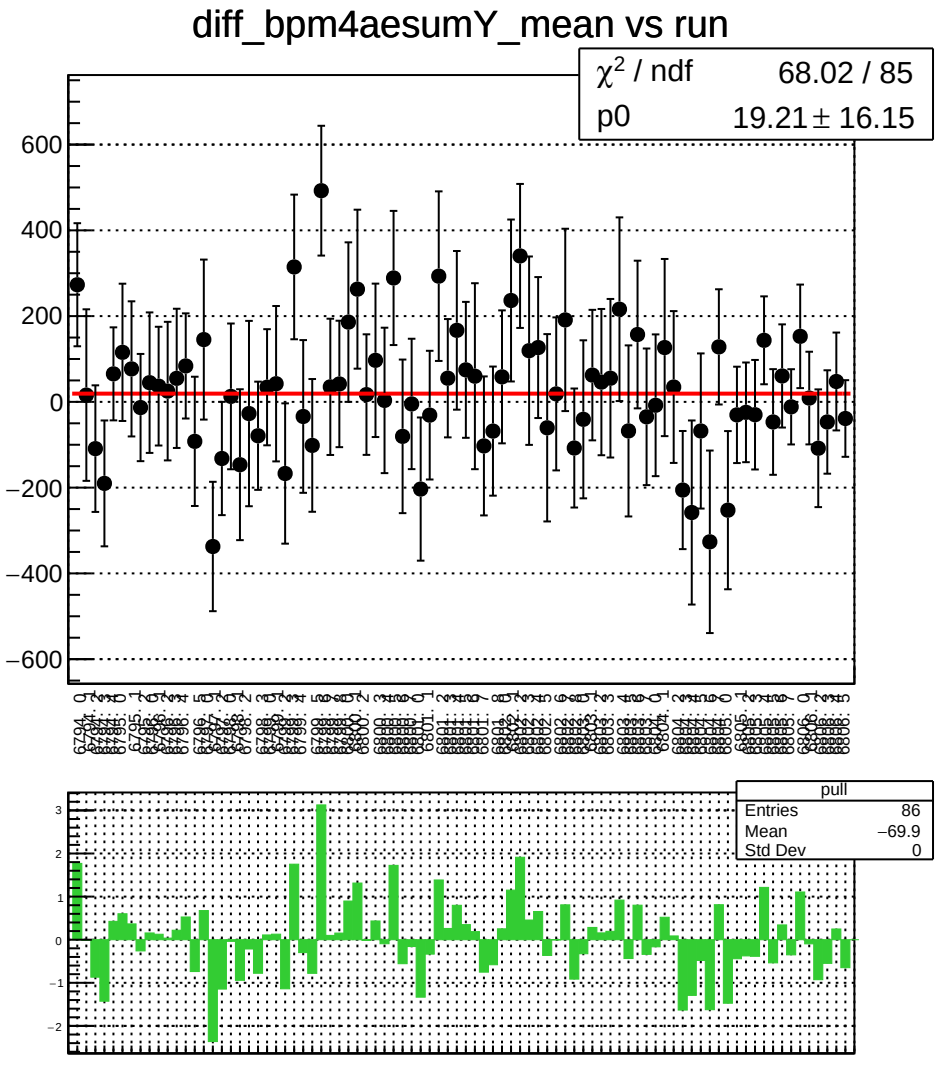
diff_bpm4aesumX_rms vs run

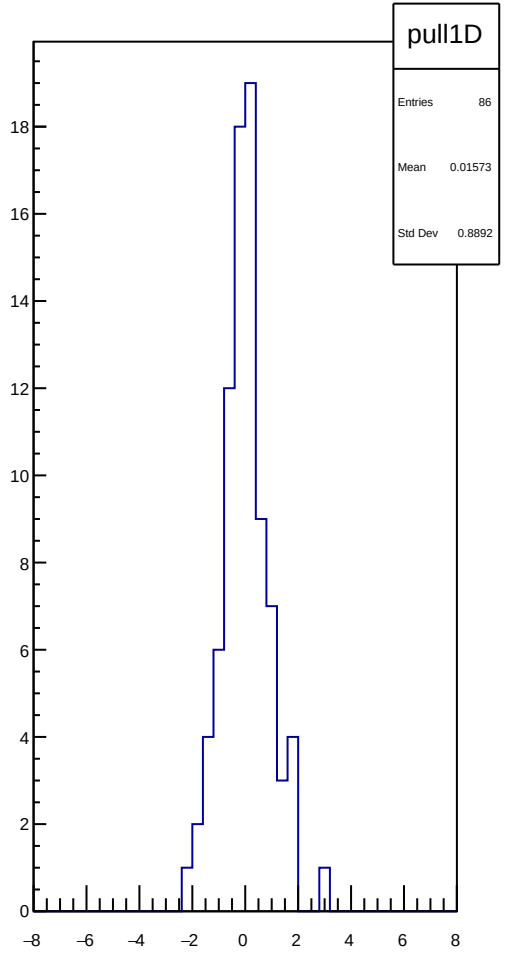


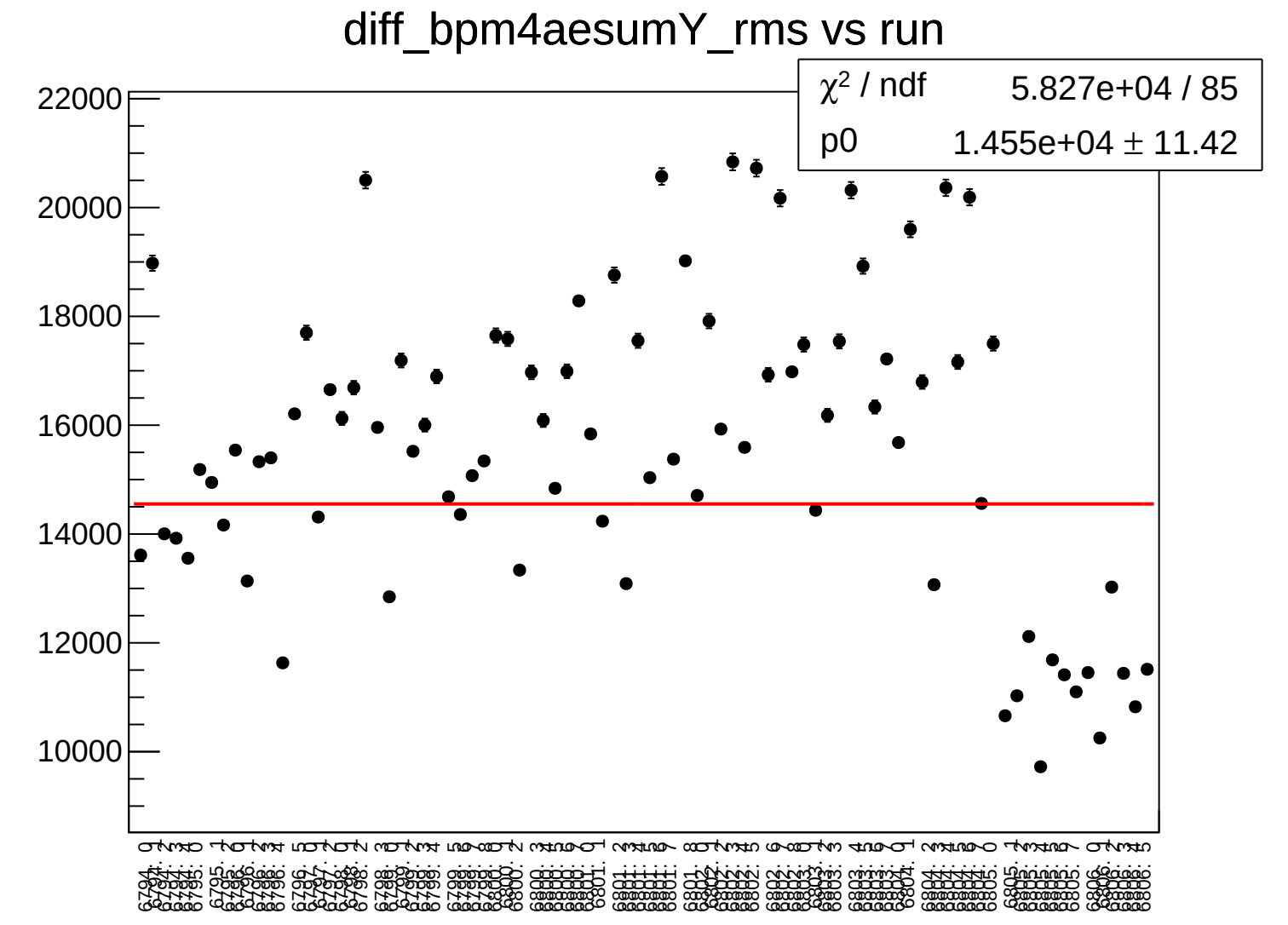

diff_bpm4aediffX_mean vs run
χ^2 / ndf 86.54 / 85
p0 3.224 ± 8.728
pull
Entries 86
Mean 1261
Std Dev 0

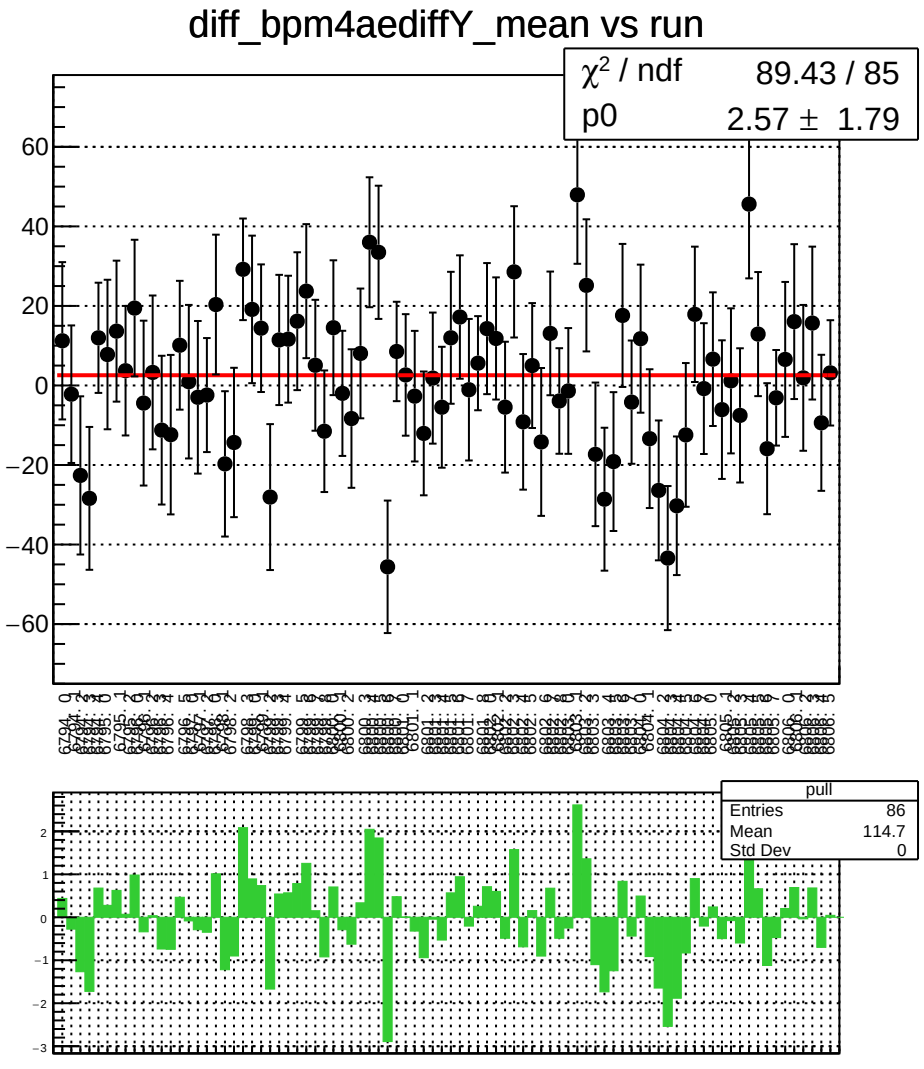

pull1D
Entries 86
Mean −0.0003391
Std Dev 1.003

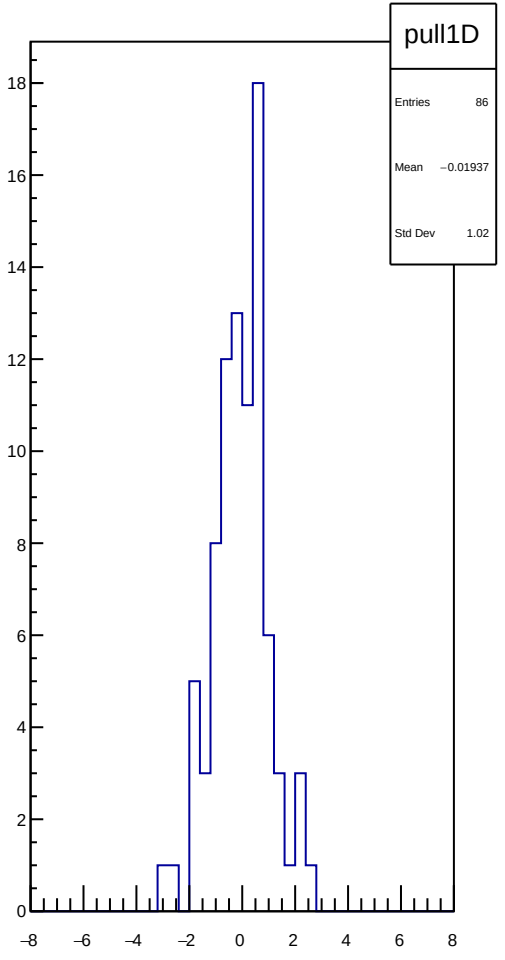

diff_bpm4aediffX_rms vs run
χ² / ndf 8665 / 85
p0 7985 ± 6.172
9500
9000
8500
8000
7500
7000

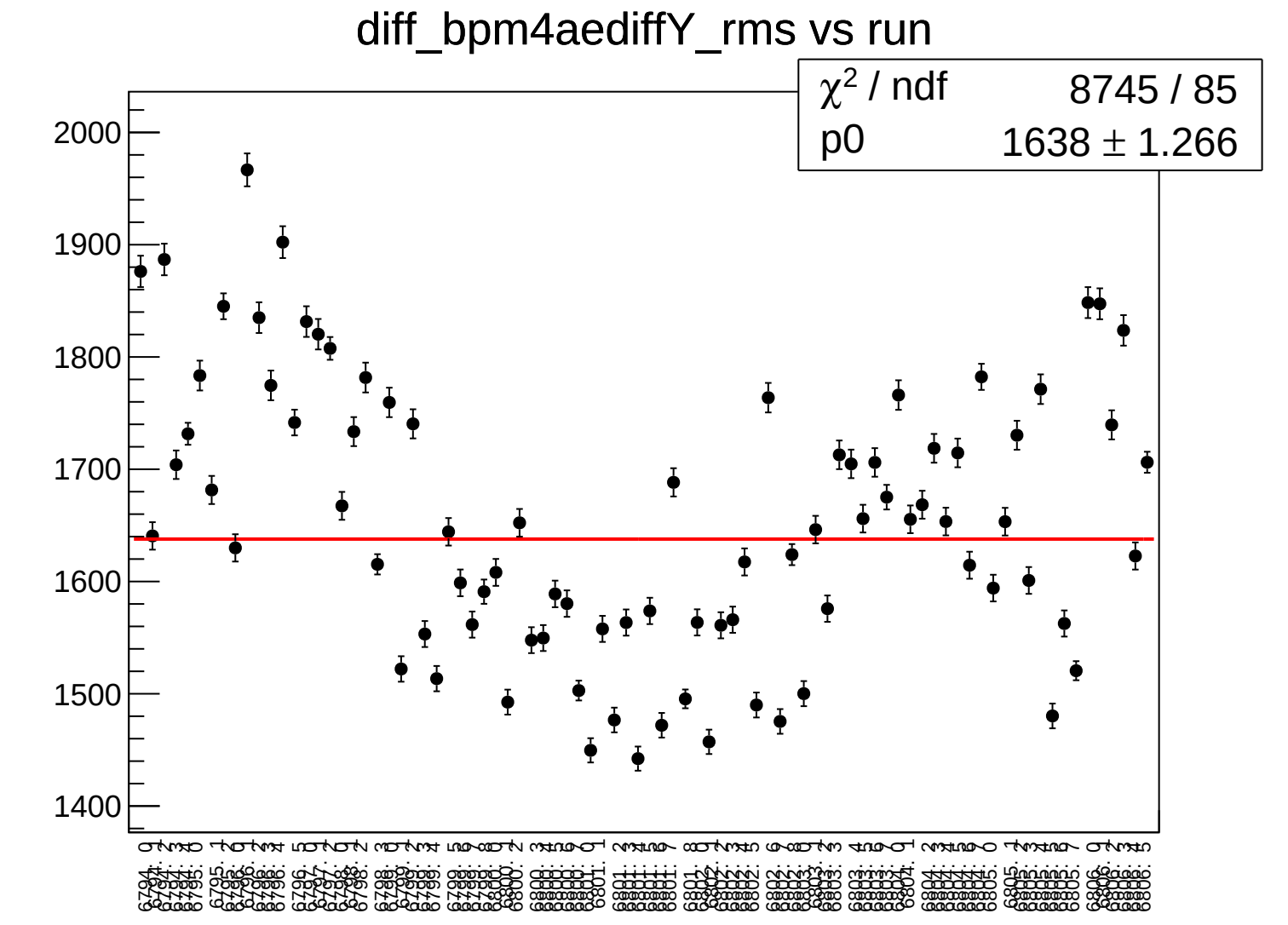

diff_bpm4aesumY_mean vs run
χ^2 / ndf 68.02 / 85
p0 19.21 ± 16.15
pull
Entries 86
Mean −69.9
Std Dev 0

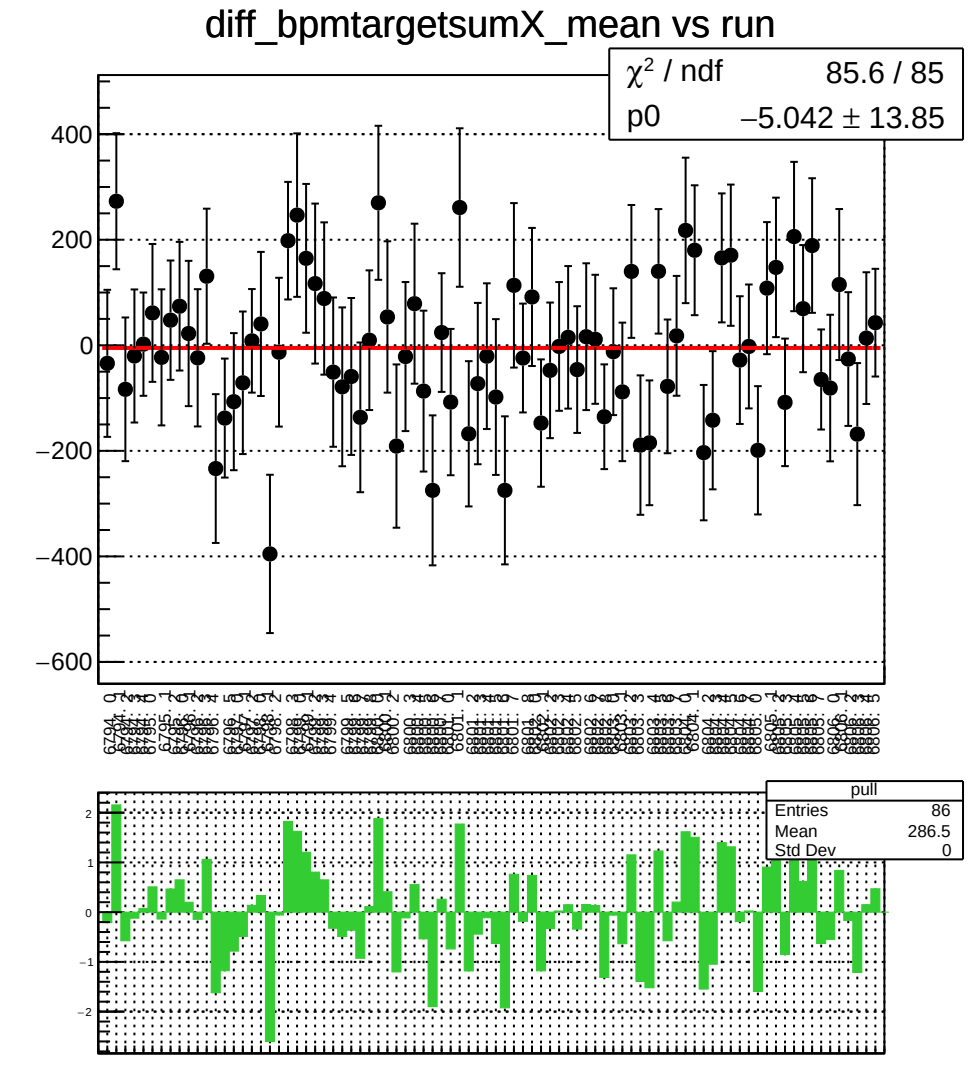

pull1D
Entries 86
Mean 0.01573
Std Dev 0.8892

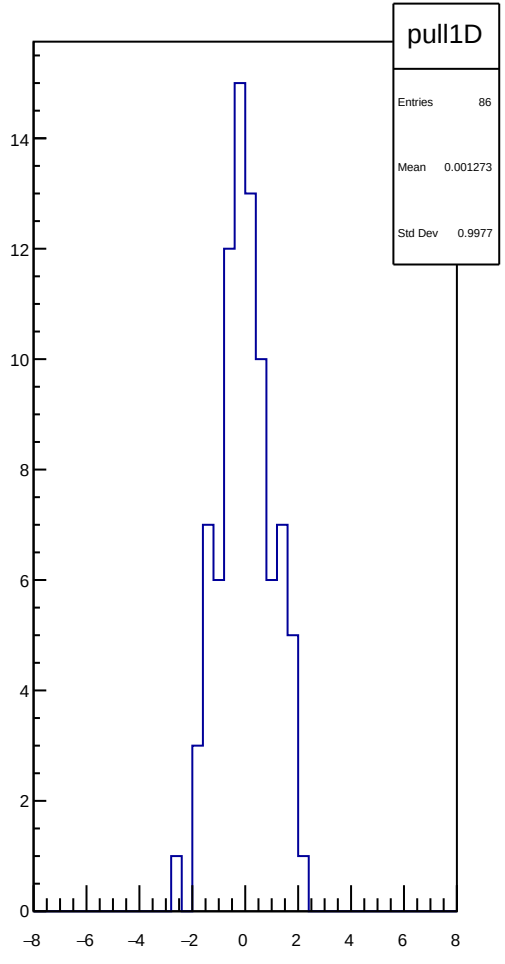

diff_bpm4aesumY_rms vs run
χ² / ndf 5.827e+04 / 85
p0 1.455e+04 ± 11.42
22000
20000
18000
16000
14000
12000
10000

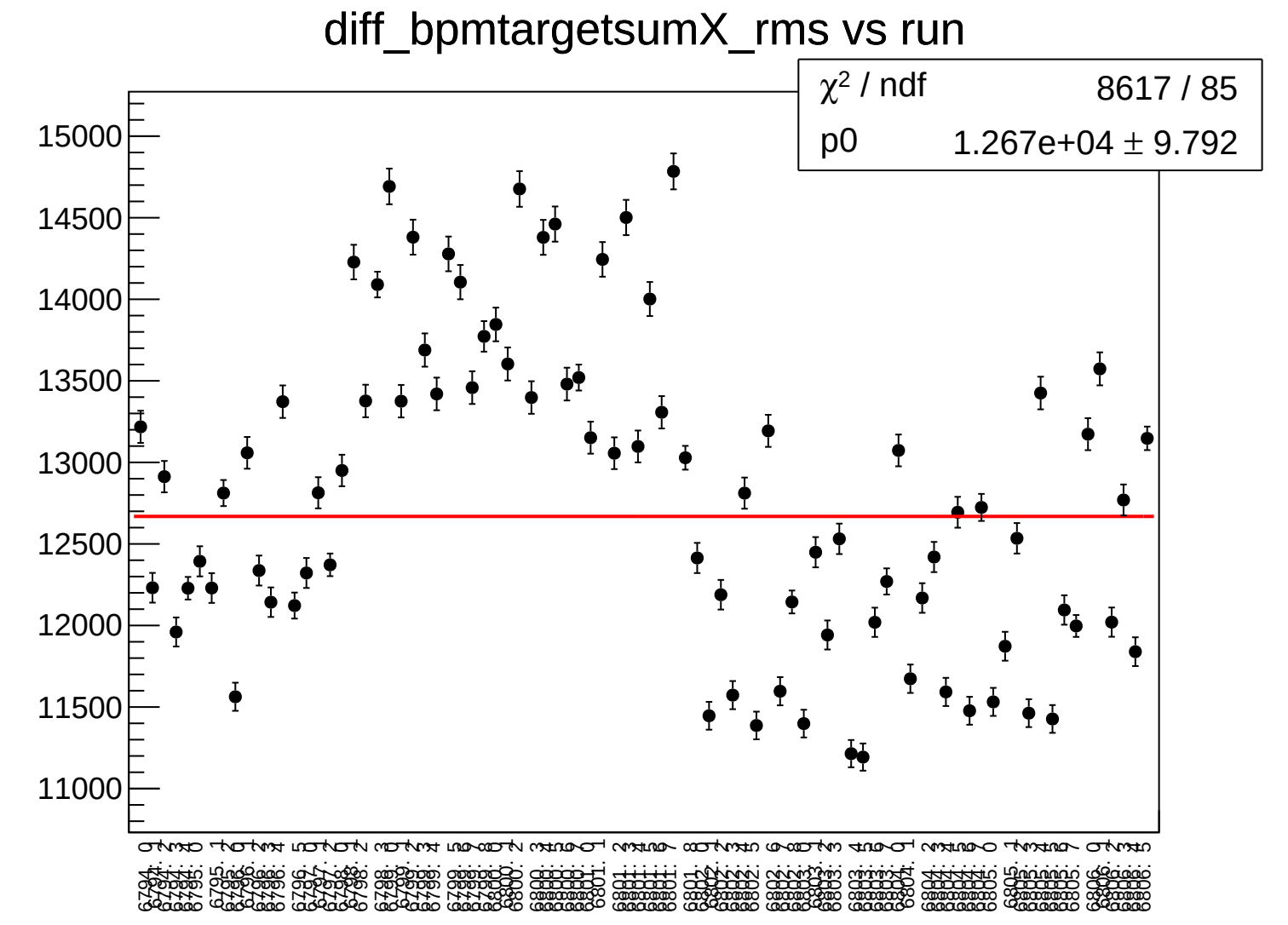

diff_bpm4aediffY_mean vs run
χ² / ndf 89.43 / 85
p0 2.57 ± 1.79
pull
Entries 86
Mean 114.7
Std Dev 0

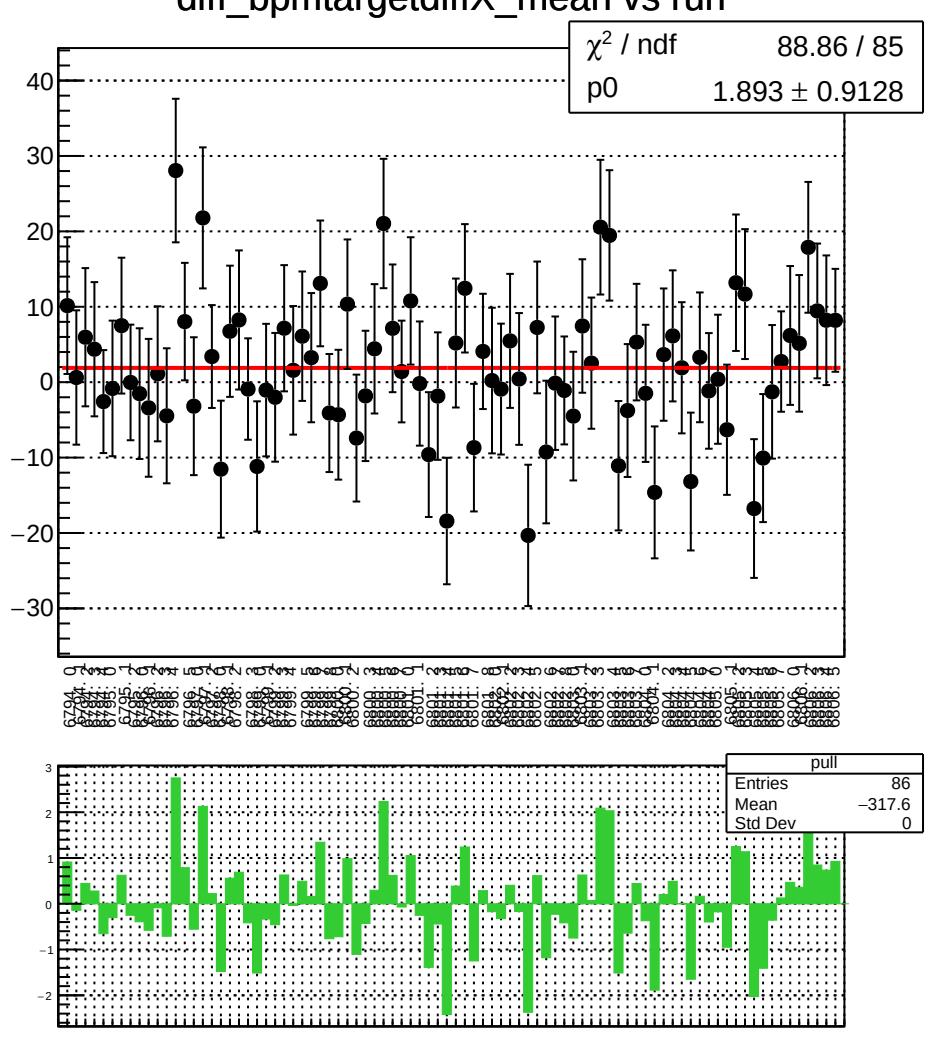

pull1D
Entries 86
Mean −0.01937
Std Dev 1.02

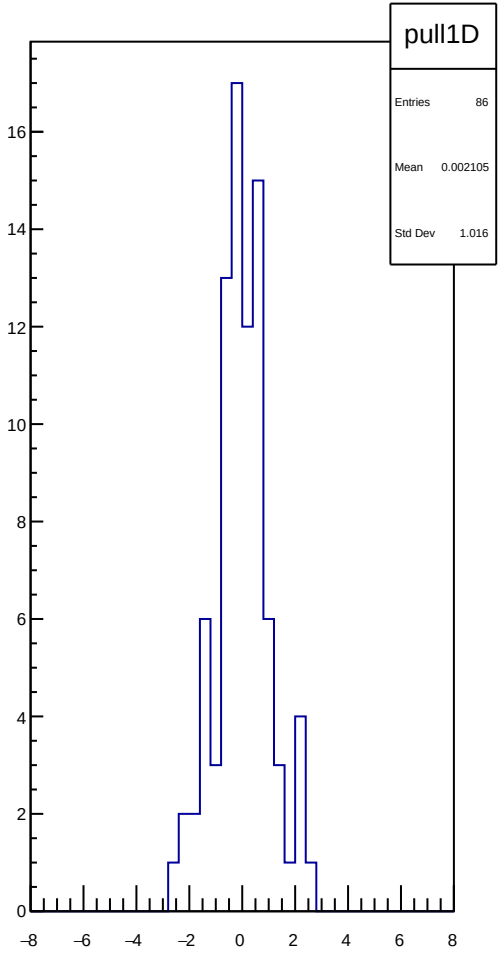

diff_bpm4aediffY_rms vs run
χ² / ndf 8745 / 85
p0 1638 ± 1.266
2000
1900
1800
1700
1600
1500
1400

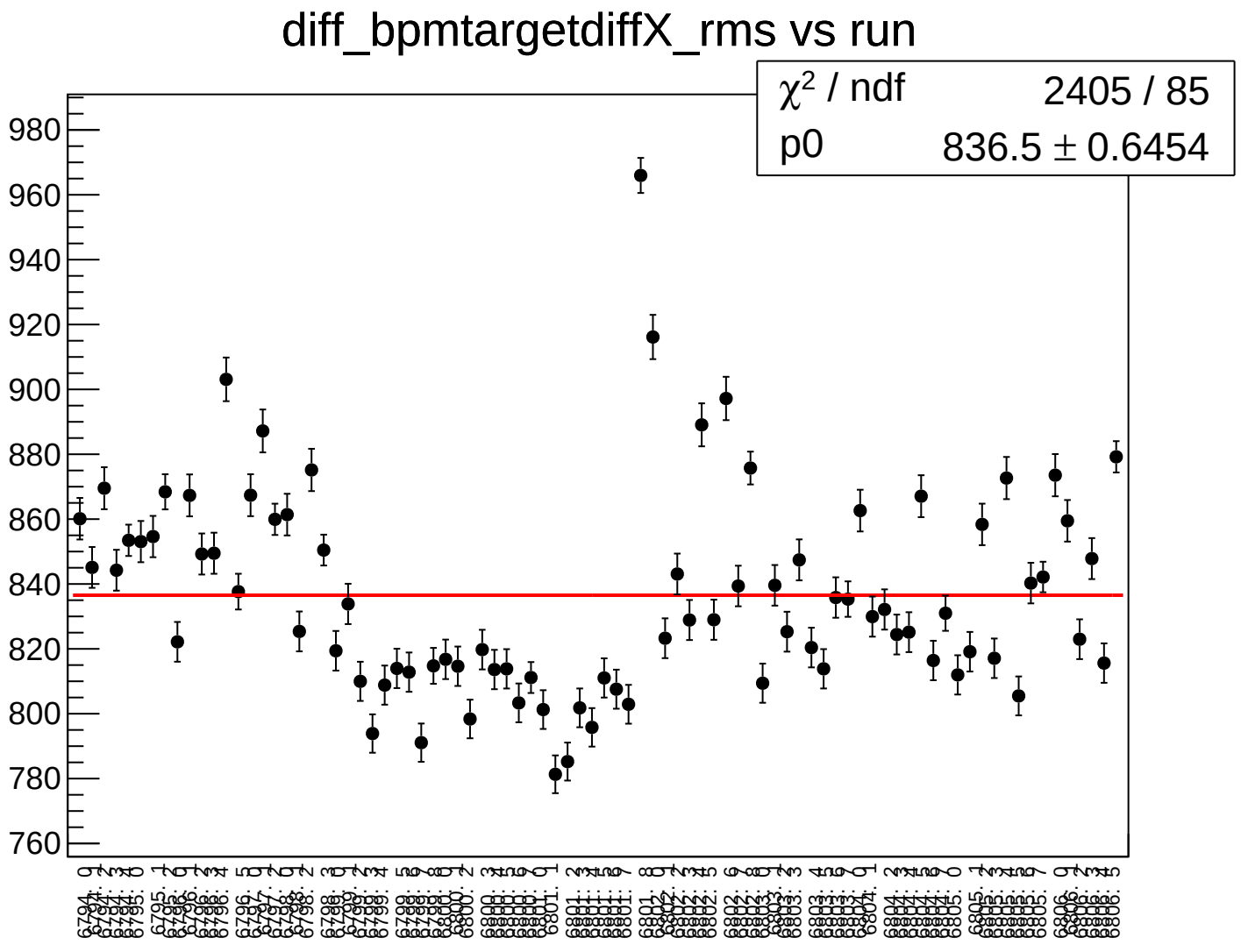

diff_bpmtargetsumX_mean vs run
χ² / ndf 85.6 / 85
p0 −5.042 ± 13.85
pull
Entries 86
Mean 286.5
Std Dev 0

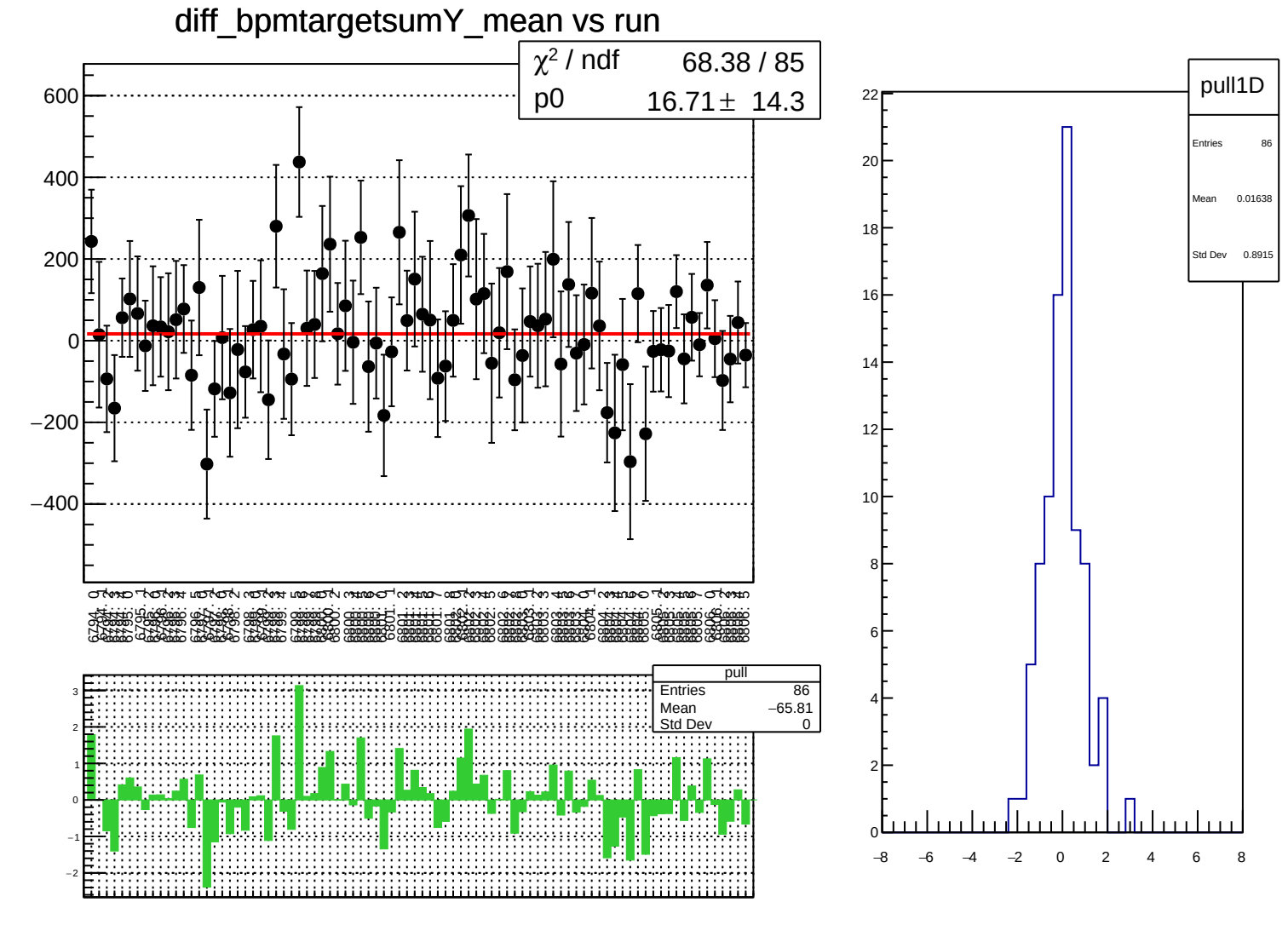

pull1D
Entries 86
Mean 0.001273
Std Dev 0.9977

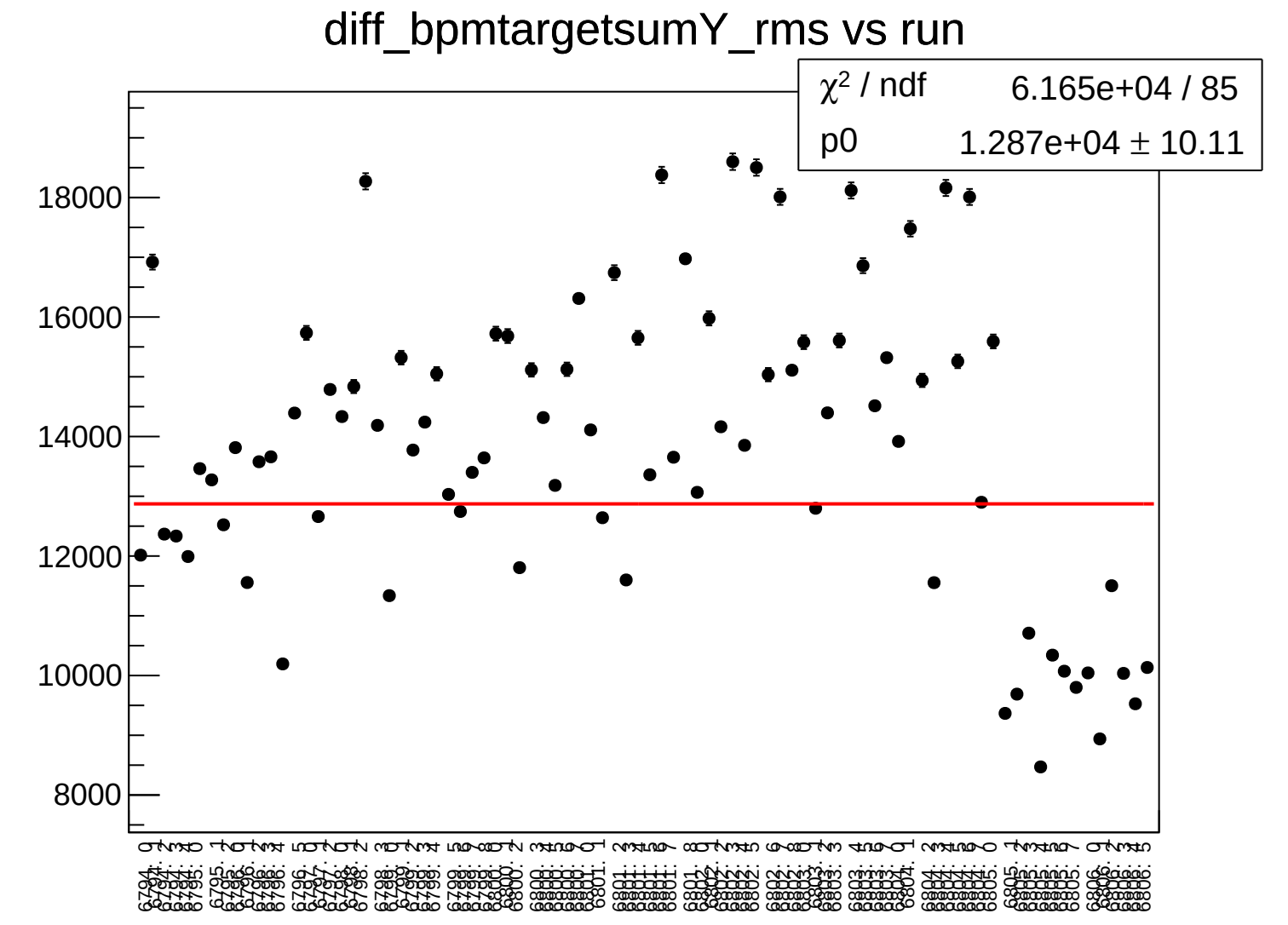

diff_bpmtargetsumX_rms vs run
χ² / ndf 8617 / 85
p0 1.267e+04 ± 9.792
15000
14500
14000
13500
13000
12500
12000
11500
11000

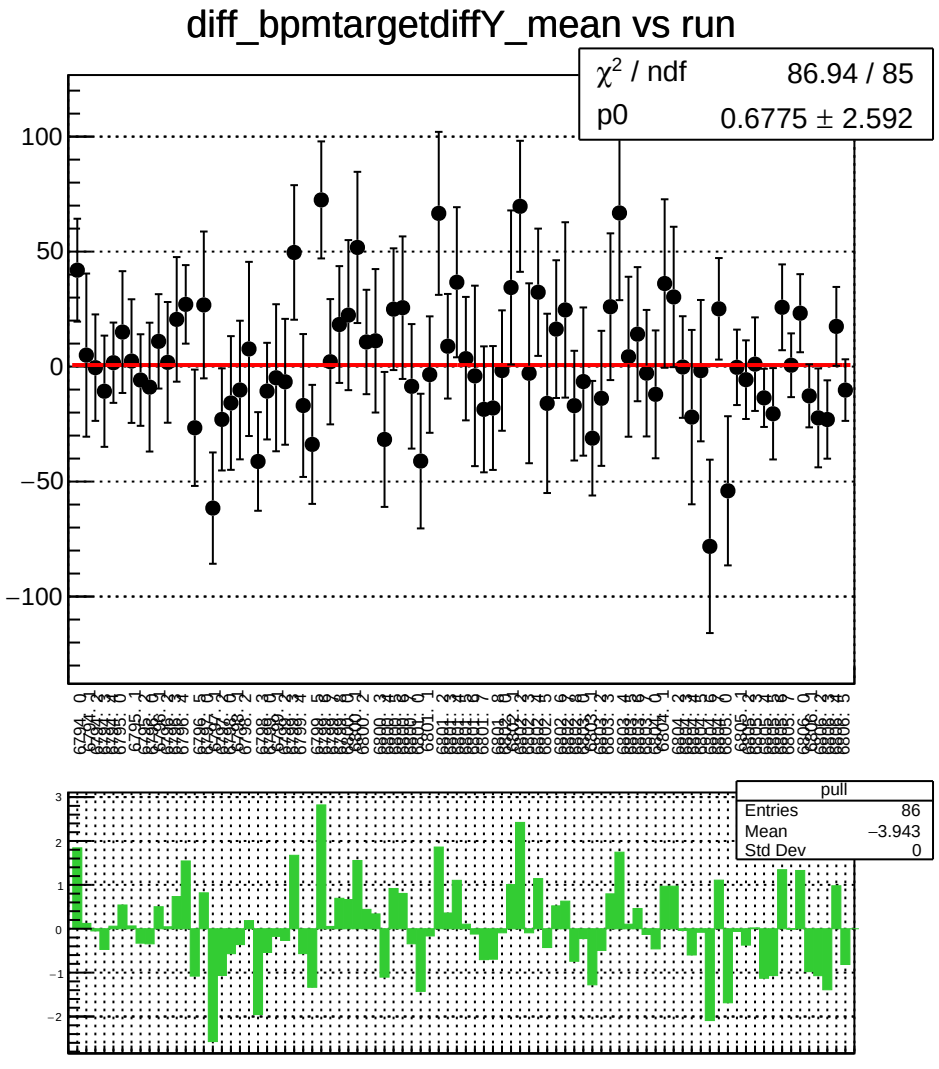

diff_bpmtargetdiffX_mean vs run
χ² / ndf 88.86 / 85
p0 1.893 ± 0.9128
pull
Entries 86
Mean −317.6
Std Dev 0

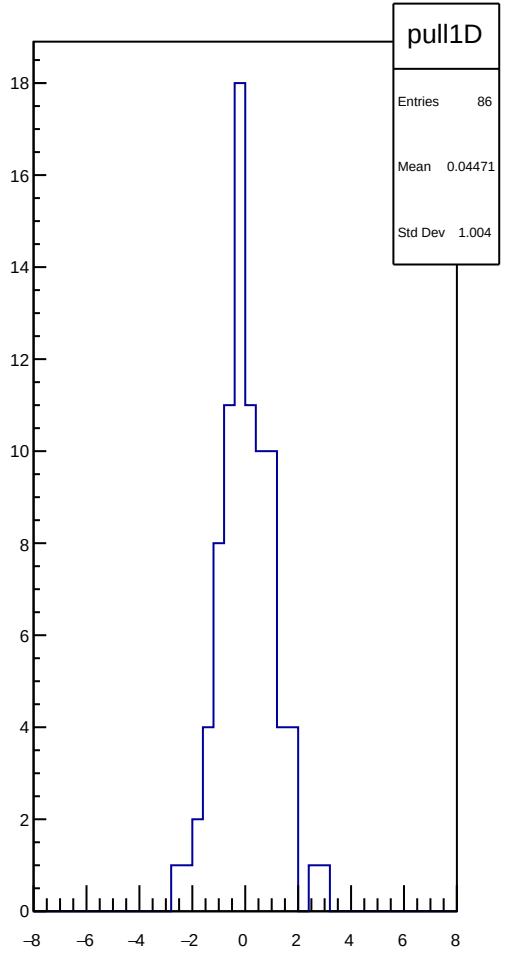

pull1D
Entries 86
Mean 0.002105
Std Dev 1.016

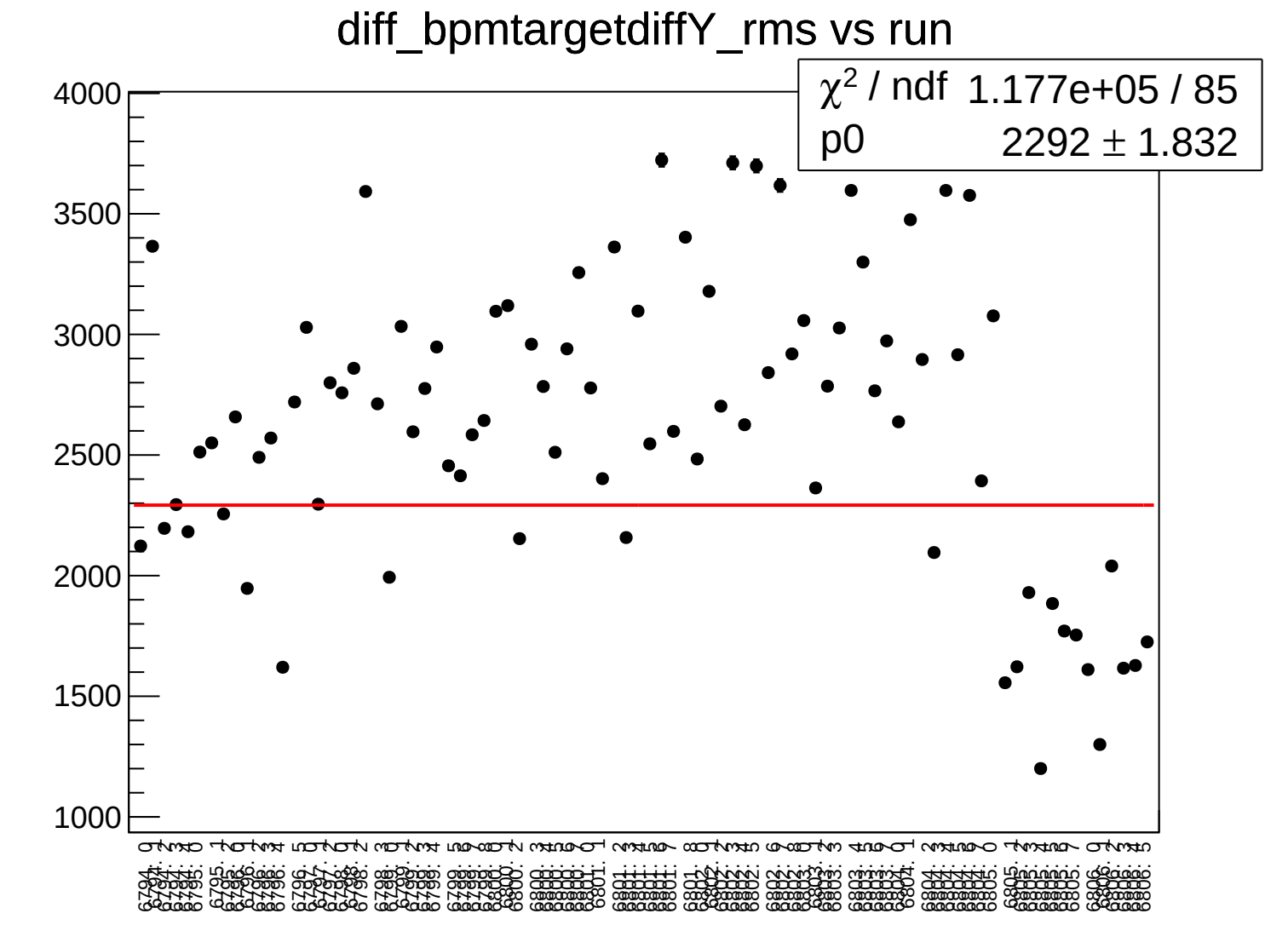

diff_bpmtargetdiffX_rms vs run
χ² / ndf 2405 / 85
p0 836.5 ± 0.6454
980
960
940
920
900
880
860
840
820
800
780
760

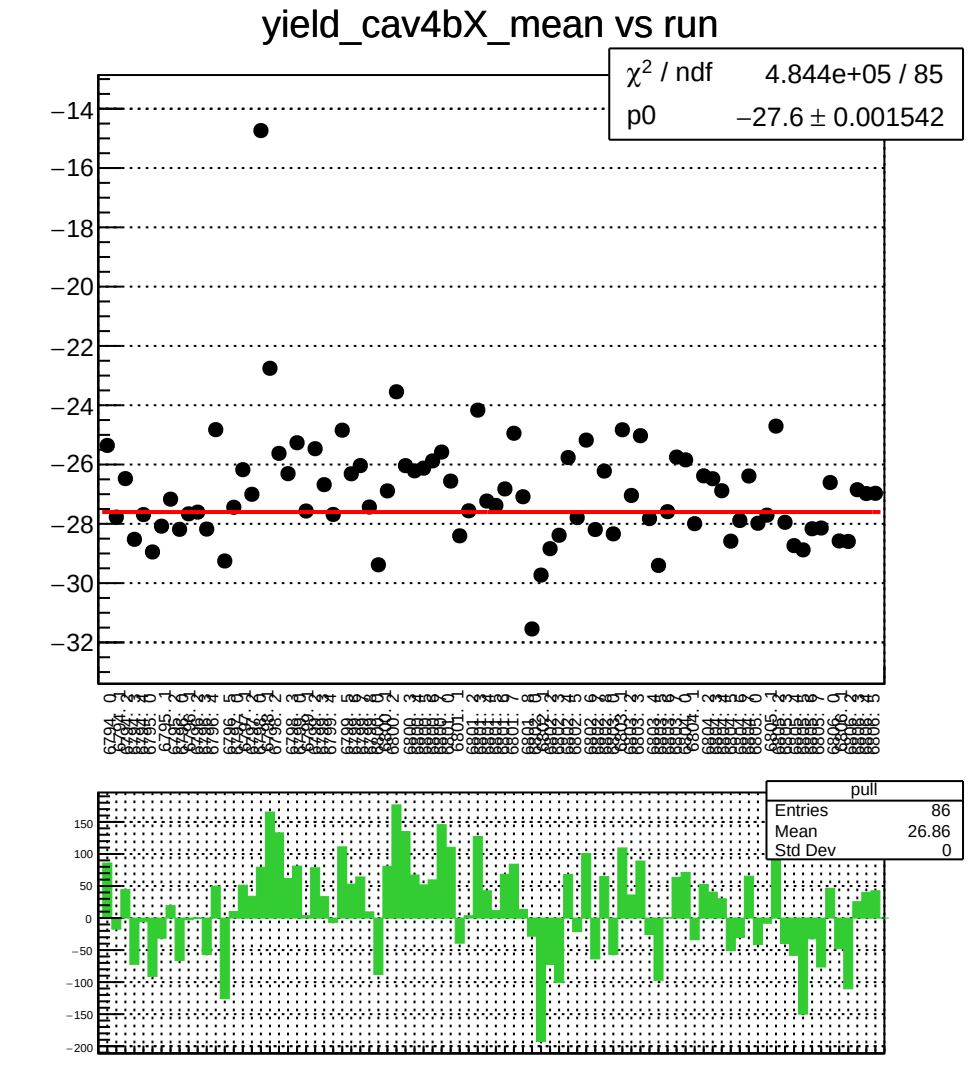

diff_bpmtargetsumY_mean vs run
χ² / ndf 68.38 / 85
p0 16.71 ± 14.3
pull
Entries 86
Mean −65.81
Std Dev 0
pull1D
Entries 86
Mean 0.01638
Std Dev 0.8915

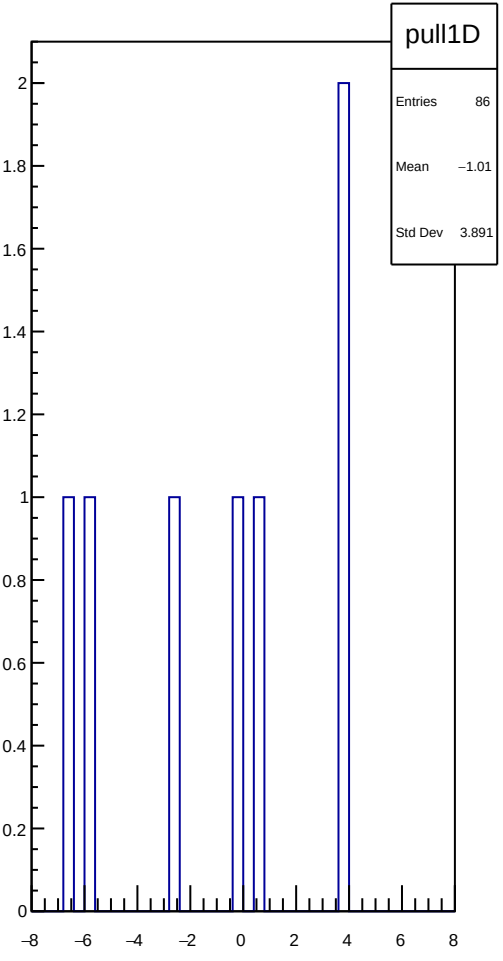

diff_bpmtargetsumY_rms vs run
χ² / ndf 6.165e+04 / 85
p0 1.287e+04 ± 10.11
18000
16000
14000
12000
10000
8000

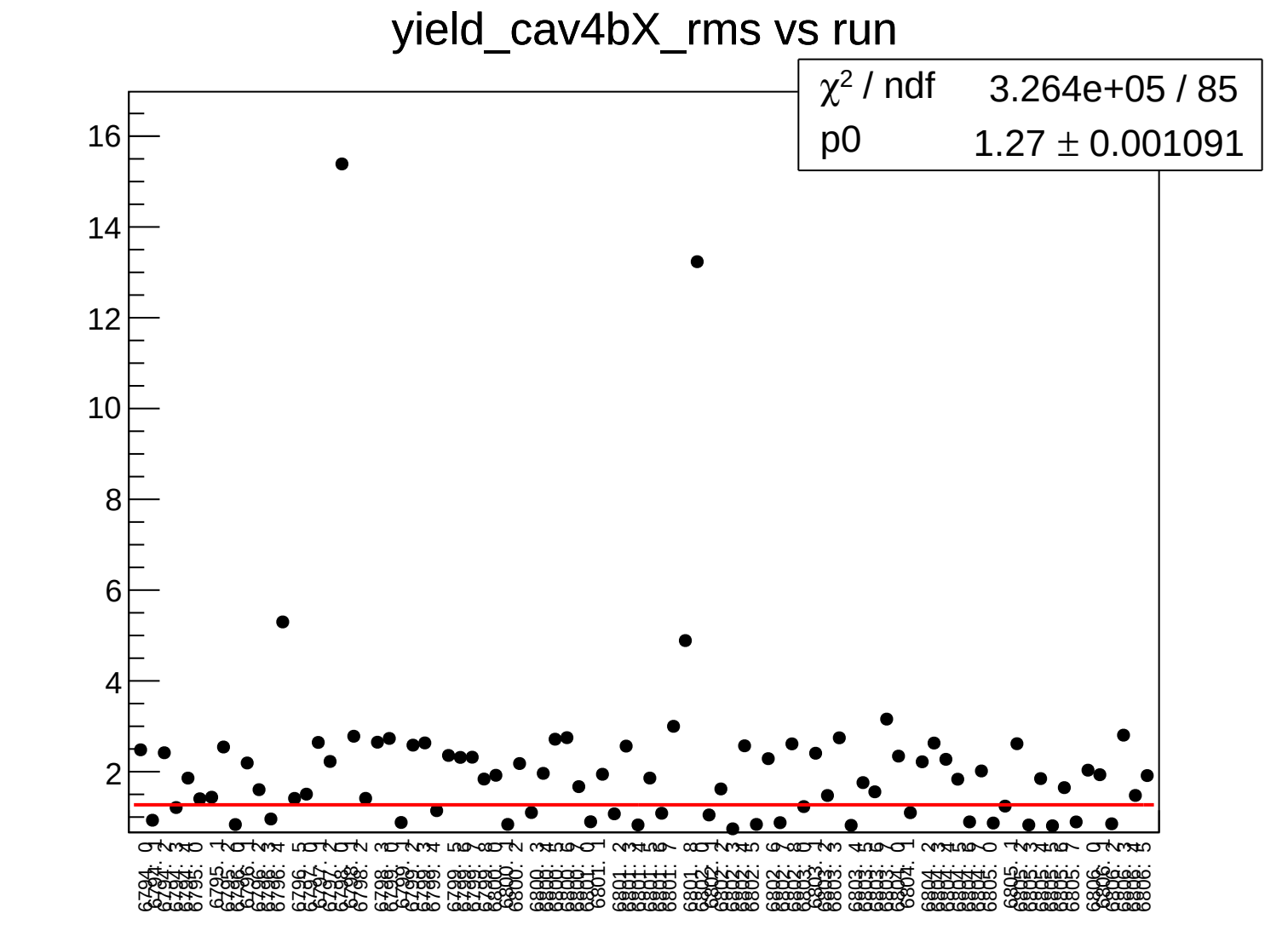

diff_bpmtargetdiffY_mean vs run
χ² / ndf 86.94 / 85
p0 0.6775 ± 2.592
100
50
0
−50
−100
pull
Entries 86
Mean −3.943
Std Dev 0
3
2
1
0
−1
−2

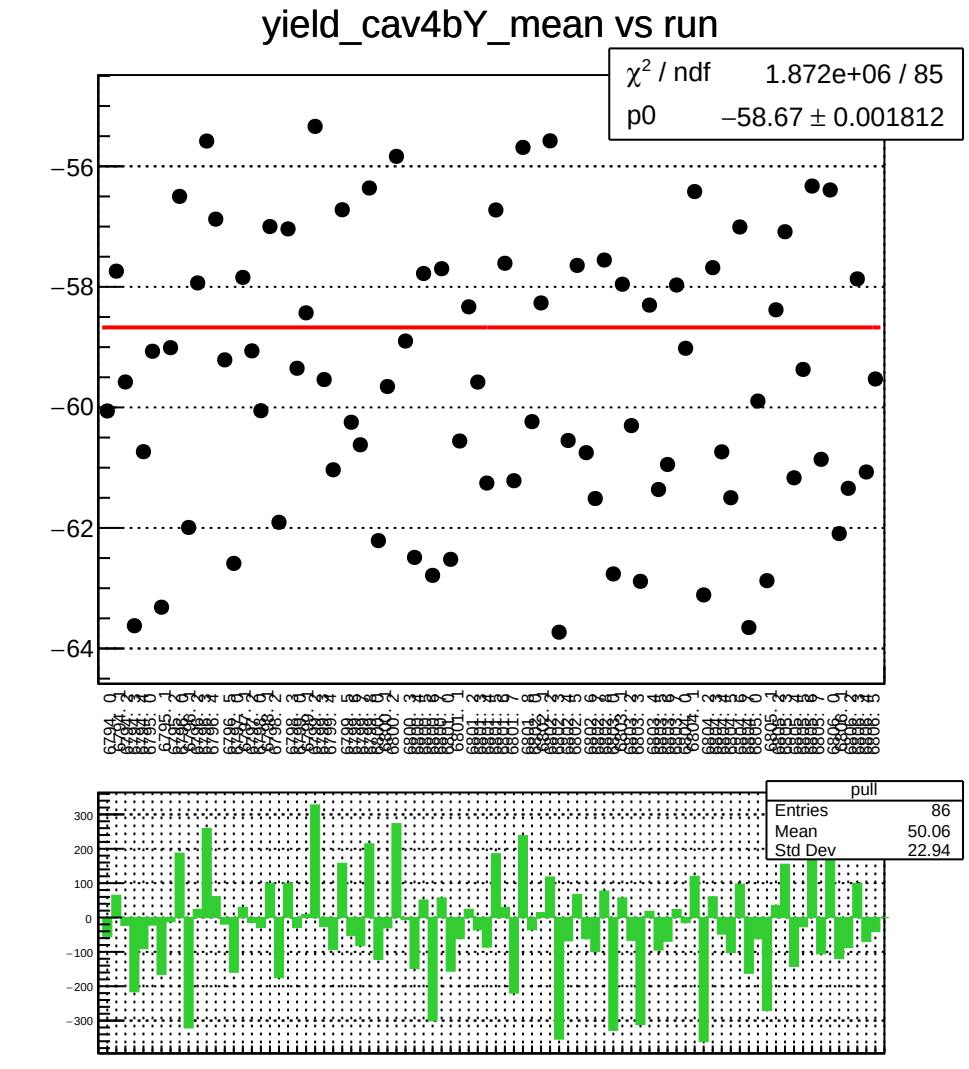

pull1D
Entries 86
Mean 0.04471
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

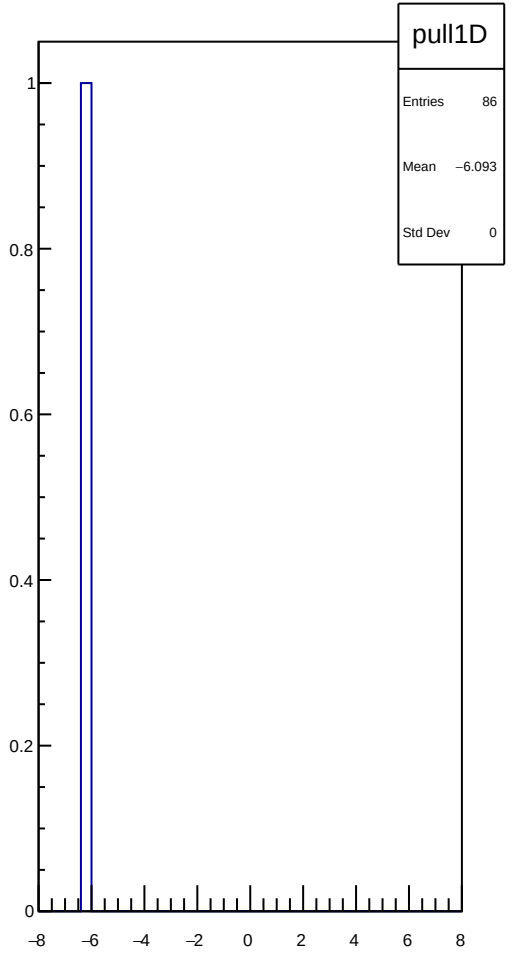

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.177e+05 / 85
p0 2292 ± 1.832
4000
3500
3000
2500
2000
1500
1000

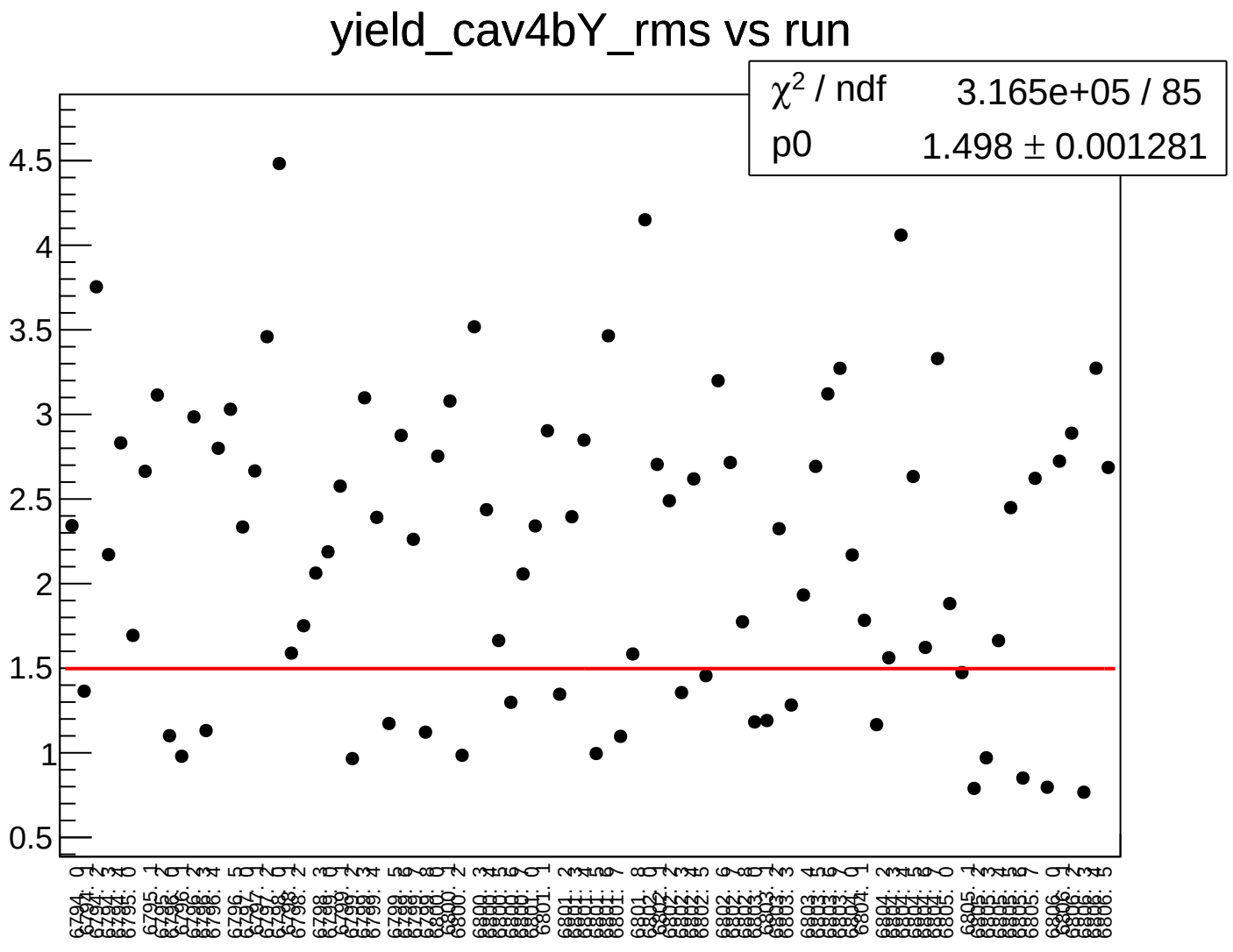

yield_cav4bX_mean vs run
χ² / ndf 4.844e+05 / 85
p0 −27.6 ± 0.001542
pull
Entries 86
Mean 26.86
Std Dev 0

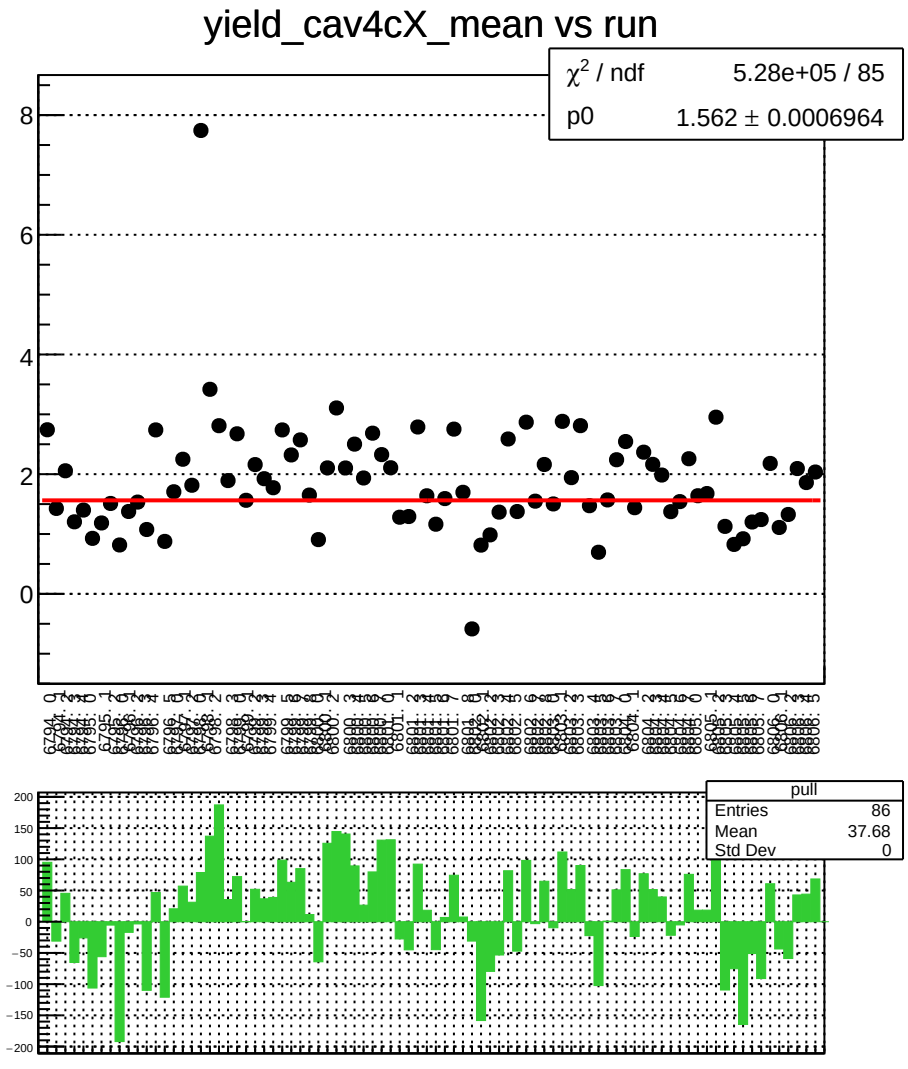

pull1D
Entries 86
Mean −1.01
Std Dev 3.891

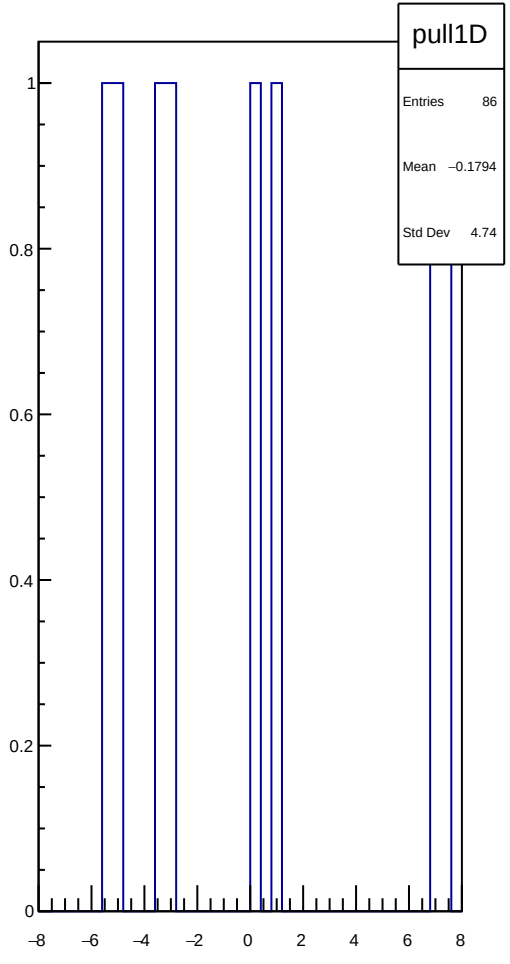

yield_cav4bX_rms vs run
χ² / ndf 3.264e+05 / 85
p0 1.27 ± 0.001091
16
14
12
10
8
6
4
2

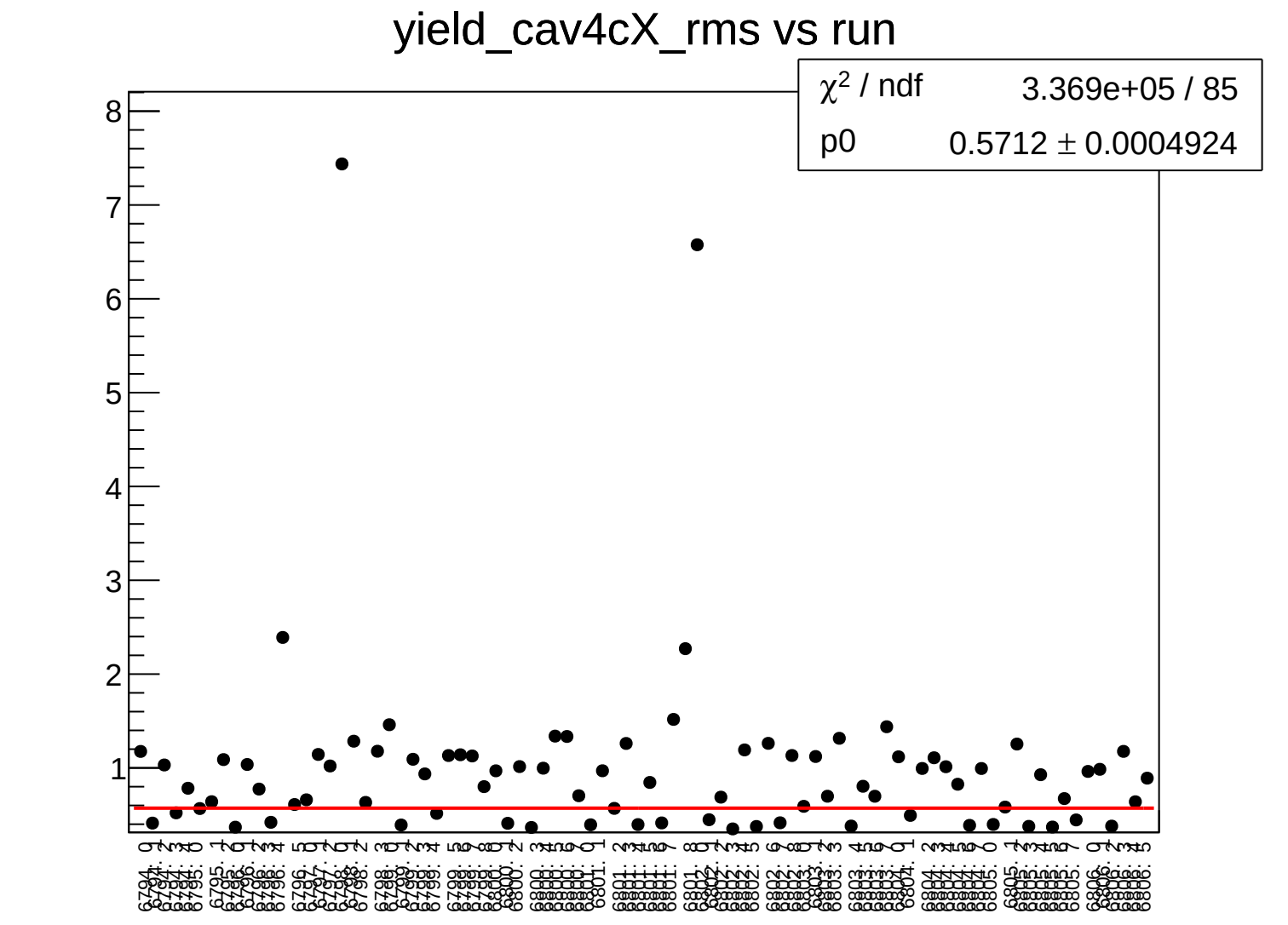

yield_cav4bY_mean vs run
χ² / ndf 1.872e+06 / 85
p0 −58.67 ± 0.001812
−56
−58
−60
−62
−64
pull
Entries 86
Mean 50.06
Std Dev 22.94
300
200
100
0
−100
−200
−300

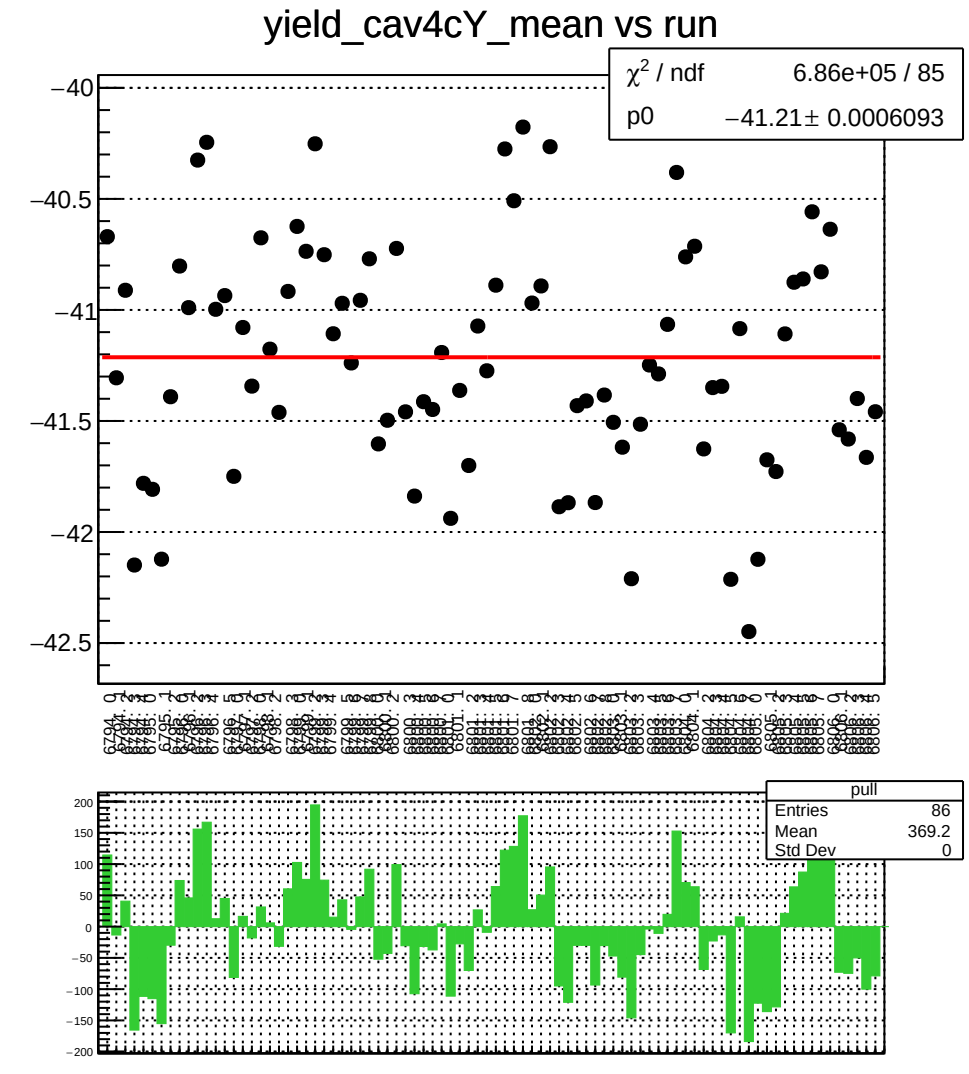

pull1D
Entries 86
Mean −6.093
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

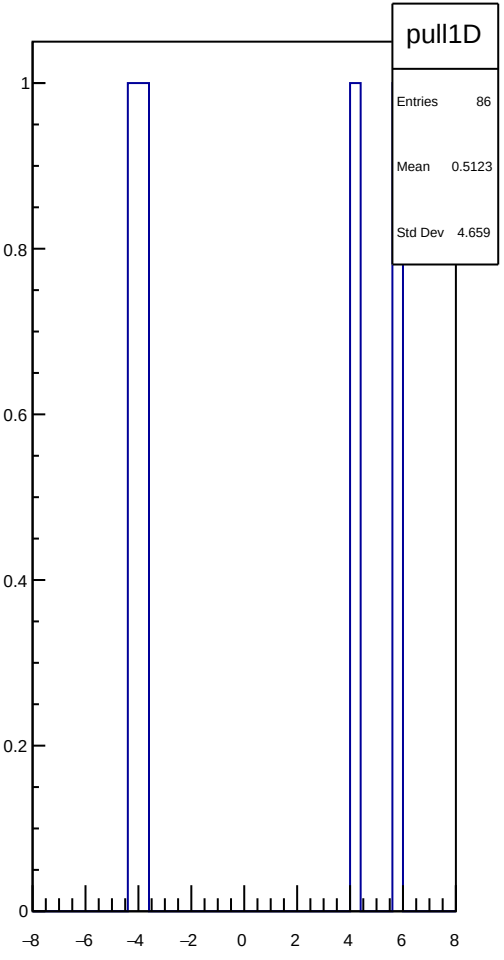

yield_cav4bY_rms vs run
χ^2 / ndf 3.165e+05 / 85
p0 1.498 ± 0.001281
4.5
4
3.5
3
2.5
2
1.5
1
0.5

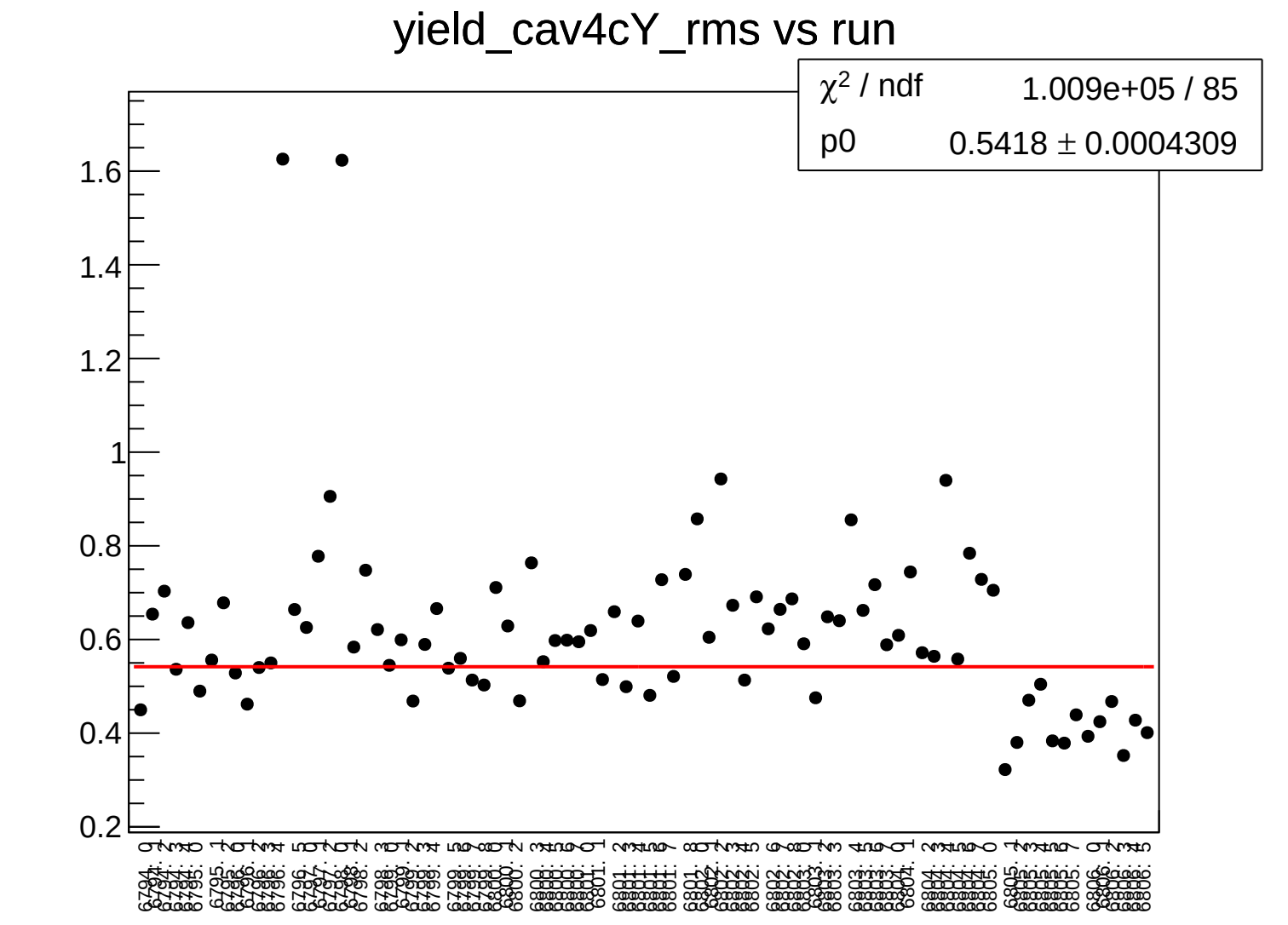

yield_cav4cX_mean vs run
χ² / ndf 5.28e+05 / 85
p0 1.562 ± 0.0006964
pull
Entries 86
Mean 37.68
Std Dev 0

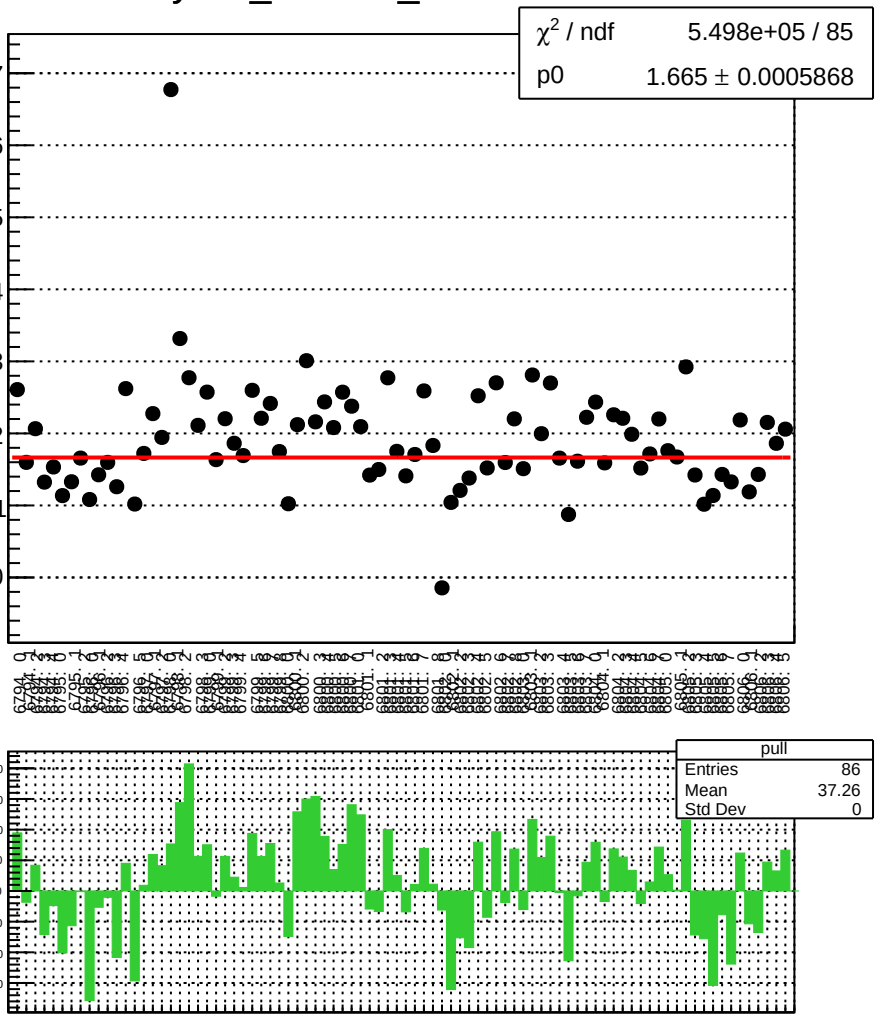

pull1D
Entries 86
Mean −0.1794
Std Dev 4.74

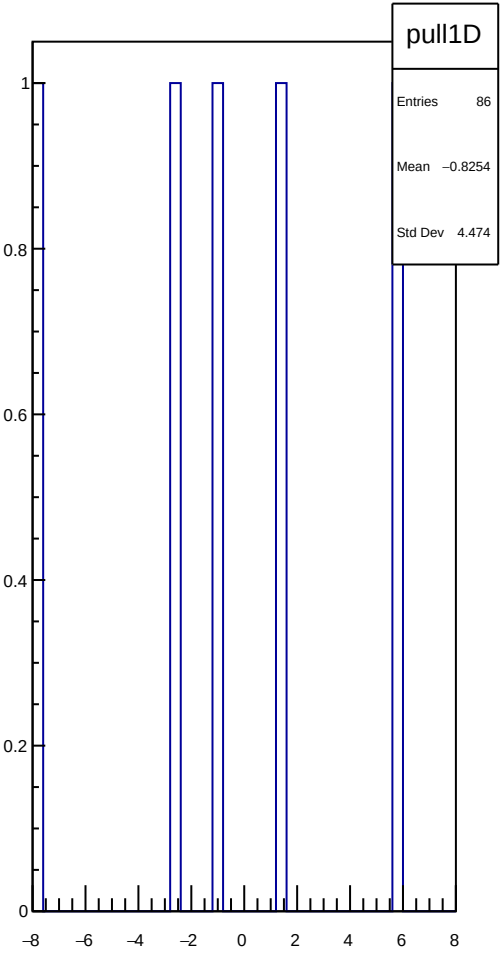

yield_cav4cX_rms vs run
χ^2 / ndf 3.369e+05 / 85
p0 0.5712 ± 0.0004924
8
7
6
5
4
3
2
1

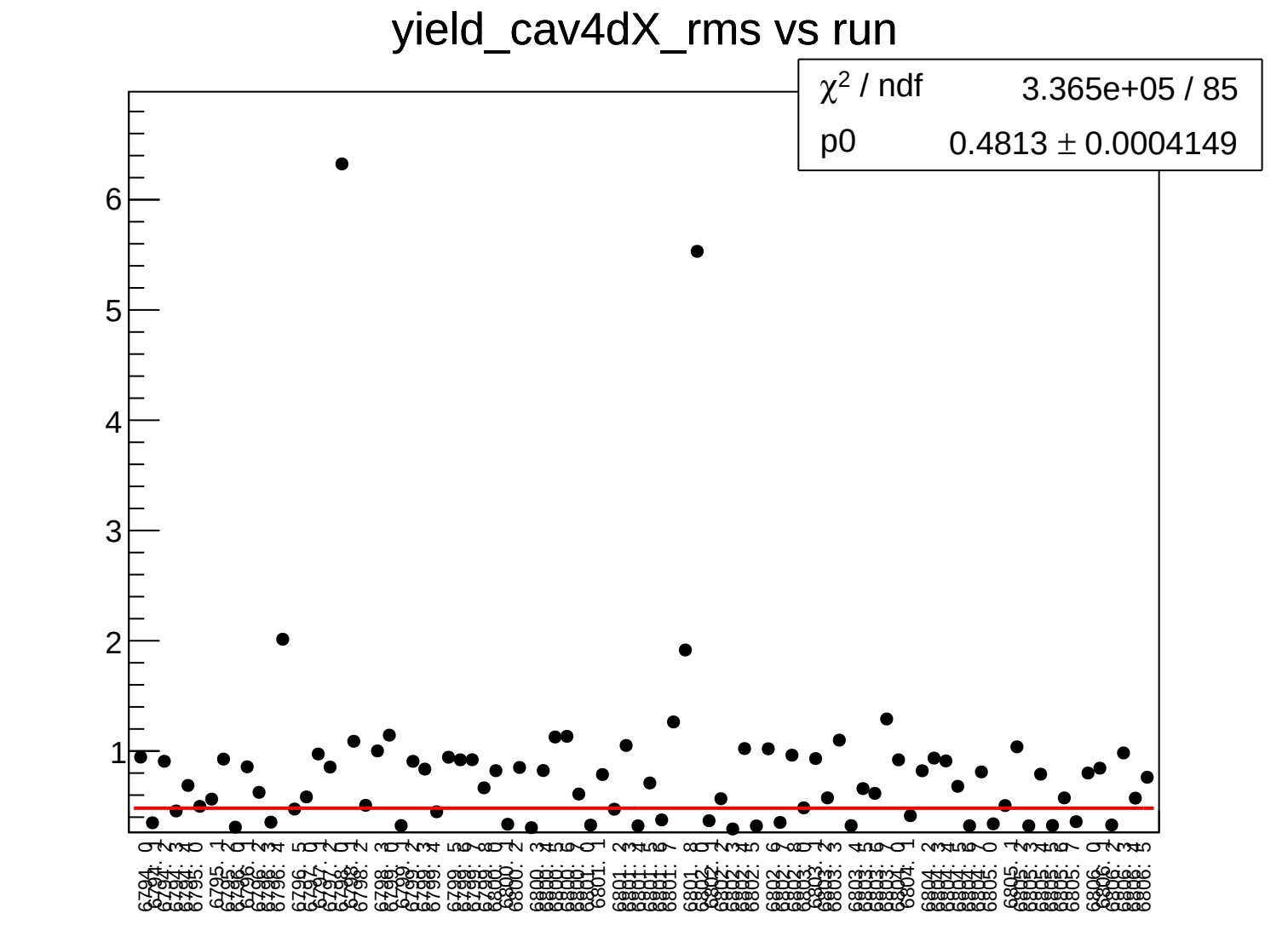

yield_cav4cY_mean vs run
χ² / ndf 6.86e+05 / 85
p0 −41.21± 0.0006093
−40
−40.5
−41
−41.5
−42
−42.5
pull
Entries 86
Mean 369.2
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

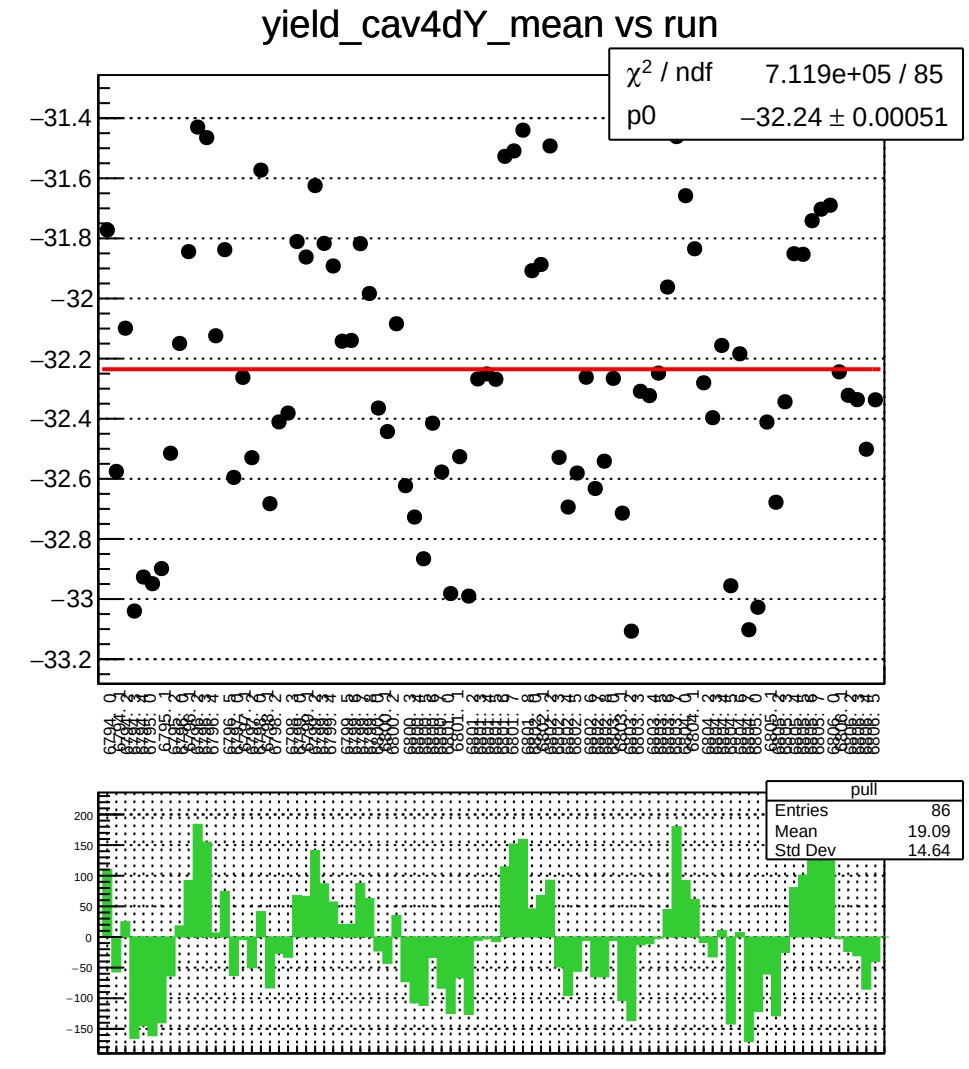

pull1D
Entries 86
Mean 0.5123
Std Dev 4.659
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

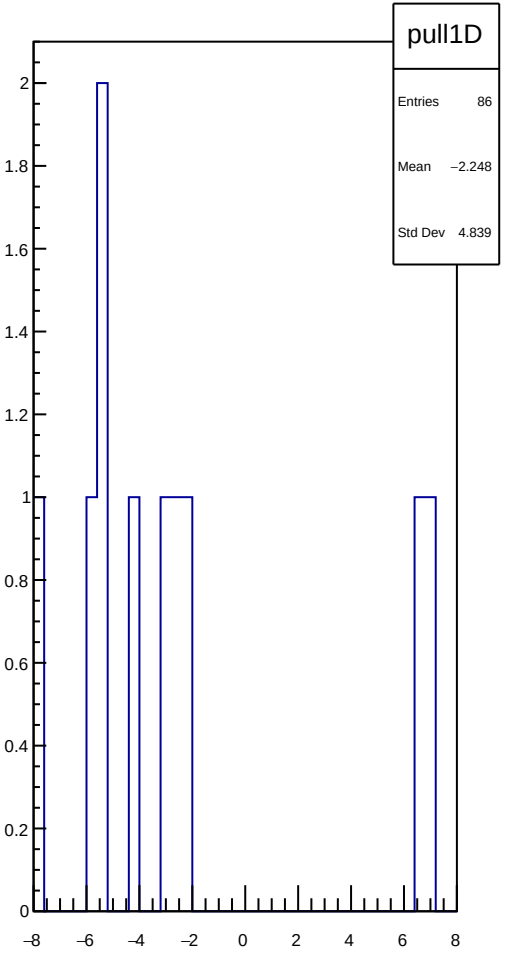

yield_cav4cY_rms vs run
χ² / ndf 1.009e+05 / 85
p0 0.5418 ± 0.0004309
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

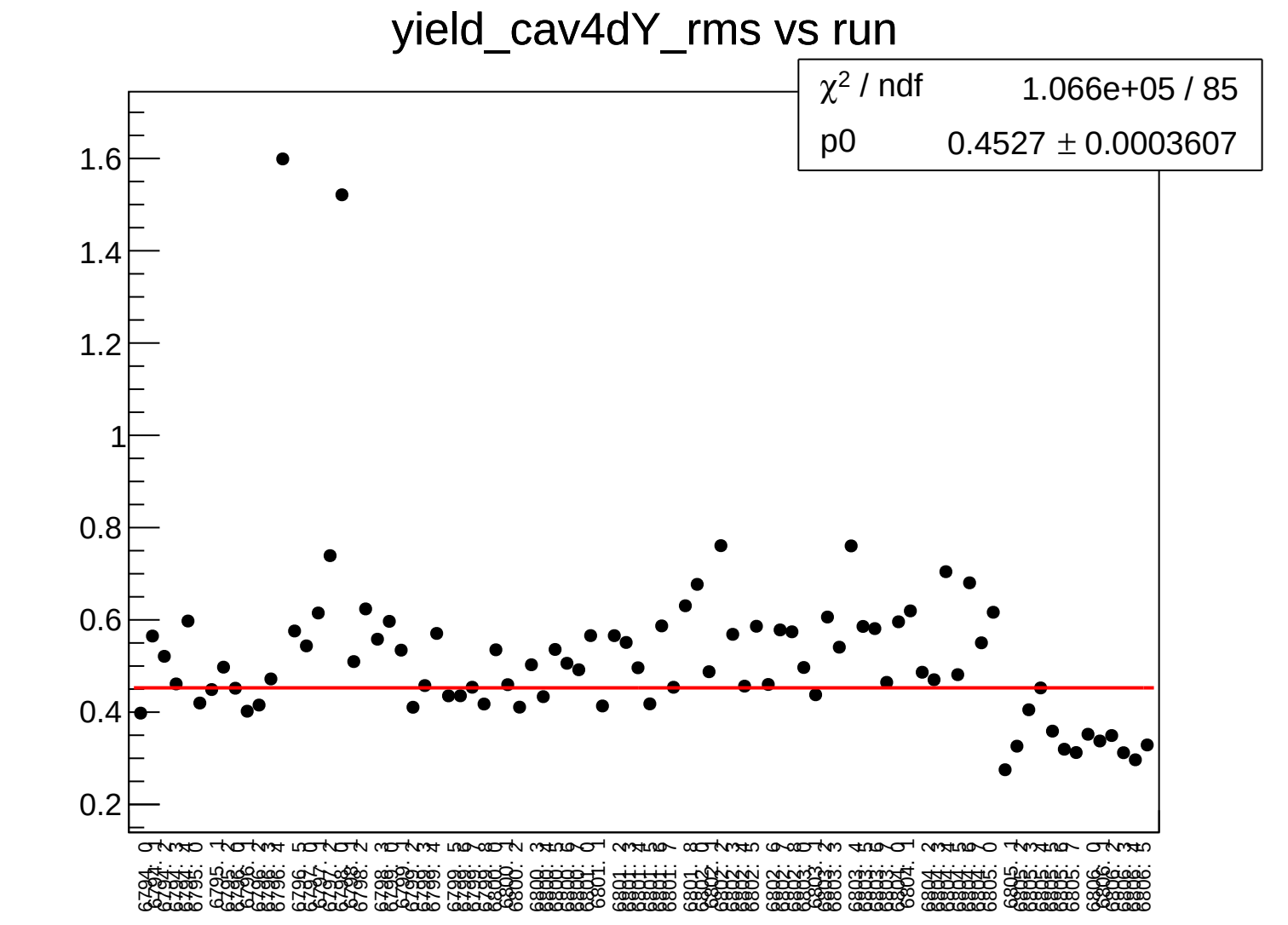

yield_cav4dX_mean vs run
χ² / ndf 5.498e+05 / 85
p0 1.665 ± 0.0005868
pull
Entries 86
Mean 37.26
Std Dev 0

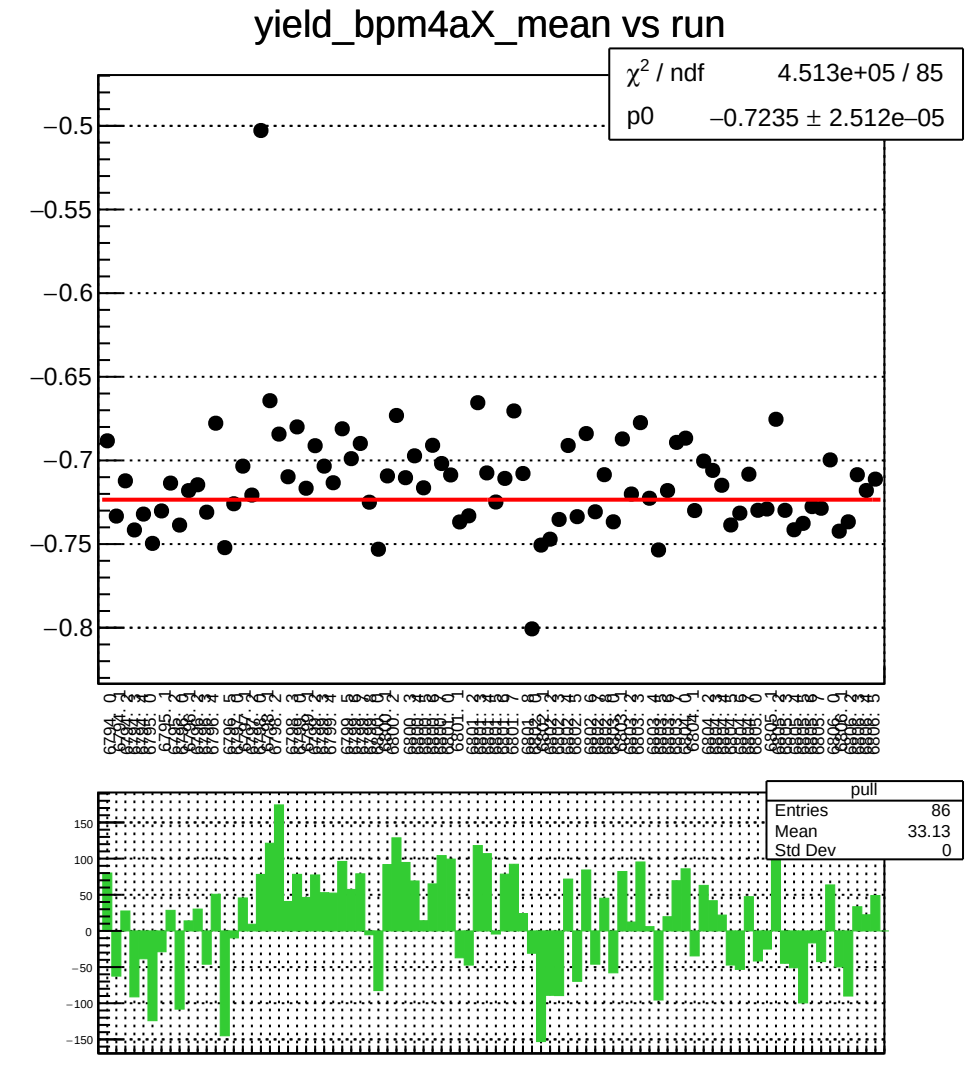

pull1D
Entries 86
Mean −0.8254
Std Dev 4.474

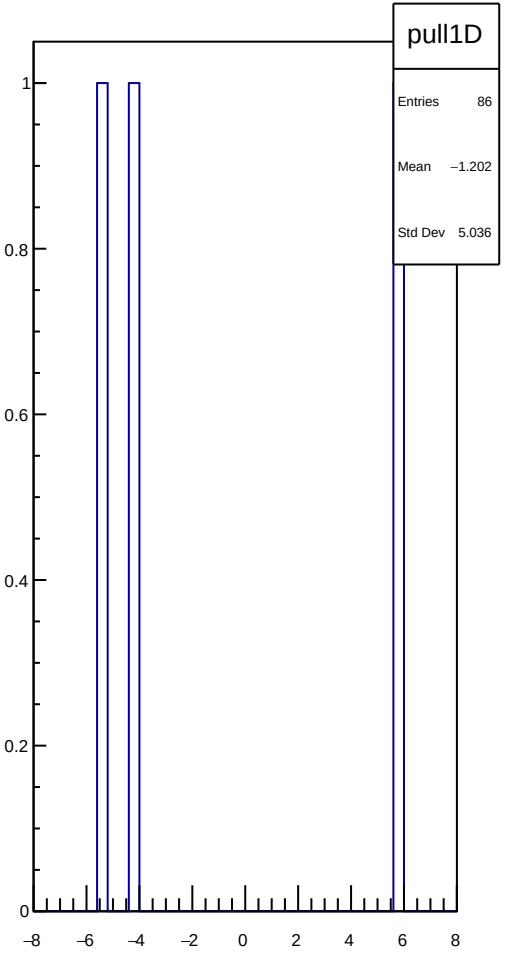

yield_cav4dX_rms vs run
χ² / ndf 3.365e+05 / 85
p0 0.4813 ± 0.0004149
6
5
4
3
2
1

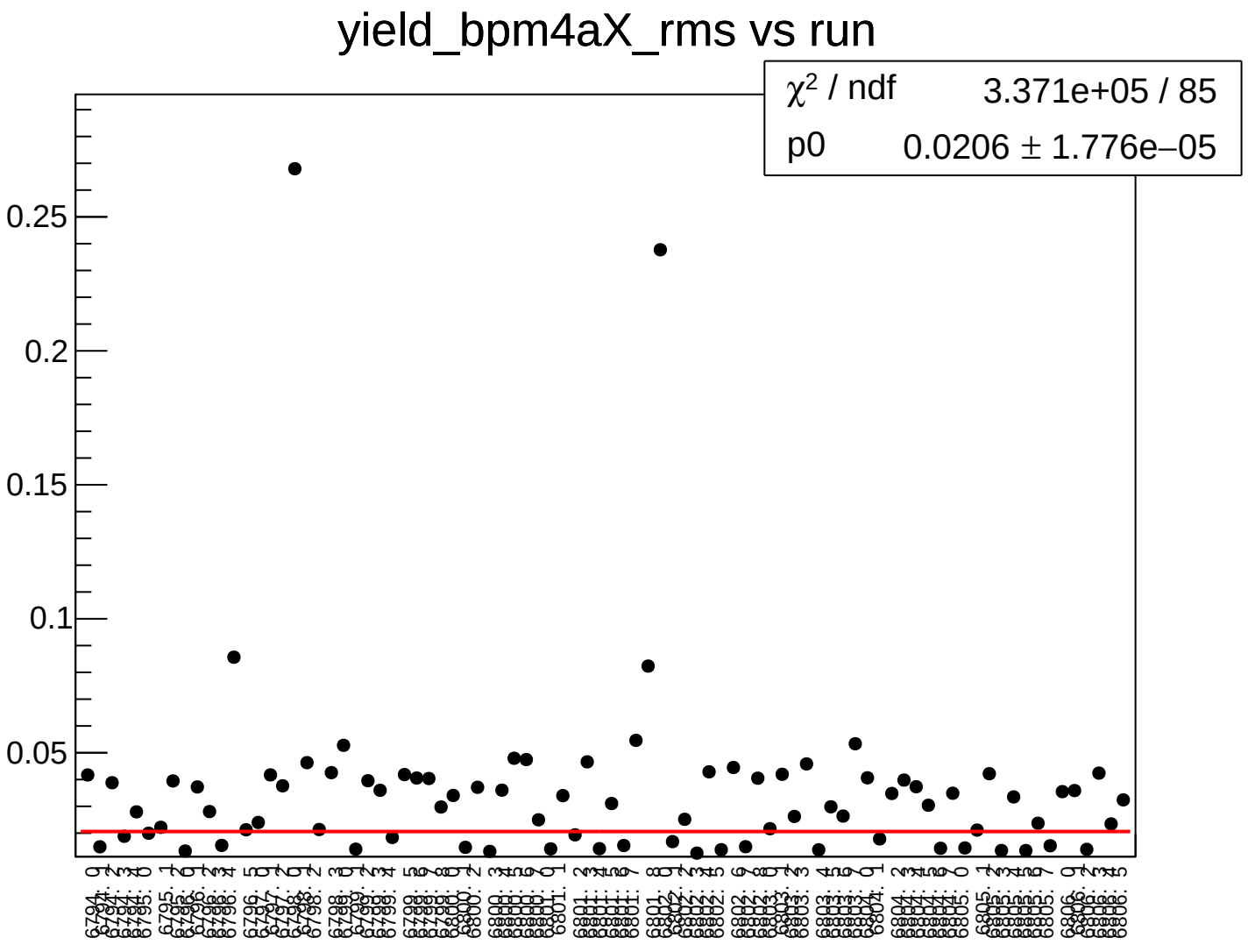

yield_cav4dY_mean vs run
χ² / ndf 7.119e+05 / 85
p0 −32.24 ± 0.00051
−31.4
−31.6
−31.8
−32
−32.2
−32.4
−32.6
−32.8
−33
−33.2
pull
Entries 86
Mean 19.09
Std Dev 14.64
200
150
100
50
0
−50
−100
−150

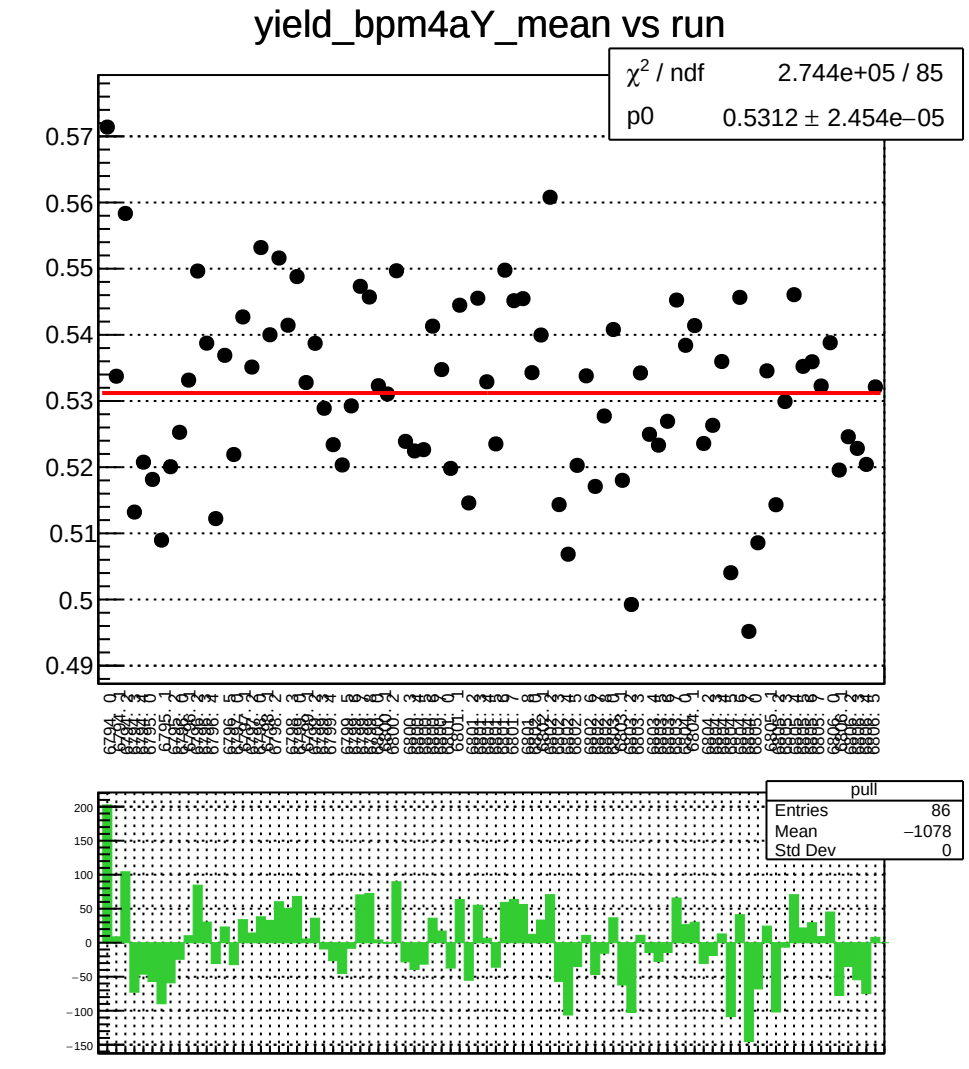

pull1D
Entries 86
Mean −2.248
Std Dev 4.839
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

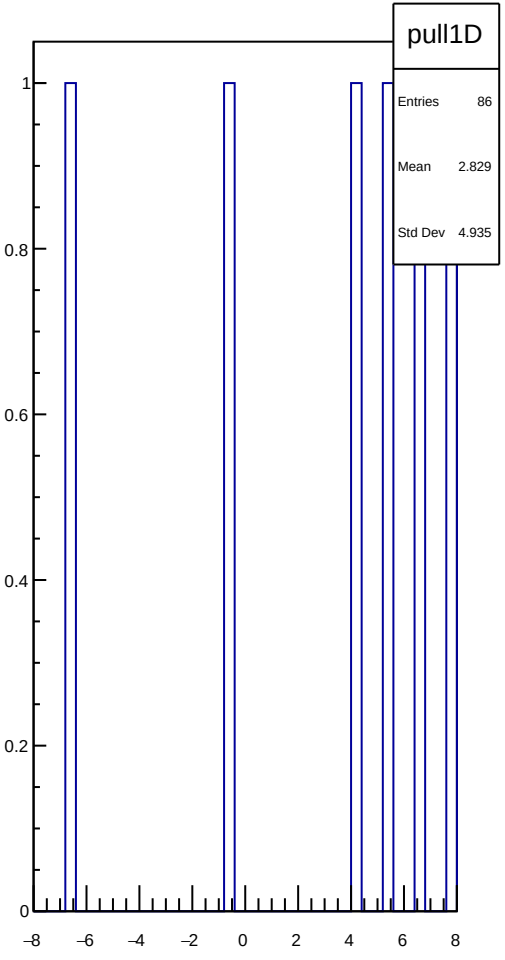

yield_cav4dY_rms vs run
χ^2 / ndf 1.066e+05 / 85
p0 0.4527 ± 0.0003607
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

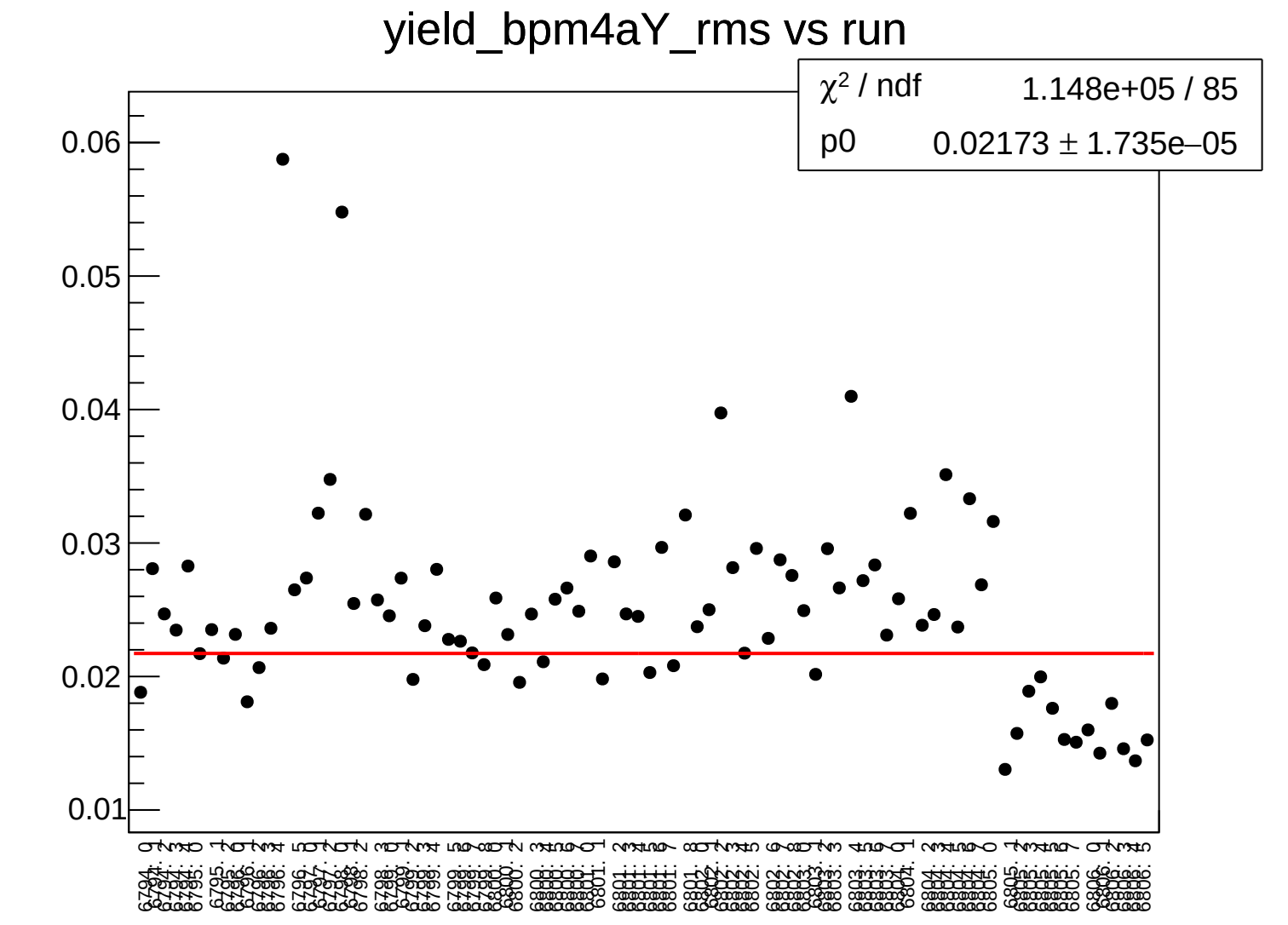

yield_bpm4aX_mean vs run
χ² / ndf 4.513e+05 / 85
p0 −0.7235 ± 2.512e−05
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 86
Mean 33.13
Std Dev 0
150
100
50
0
−50
−100
−150

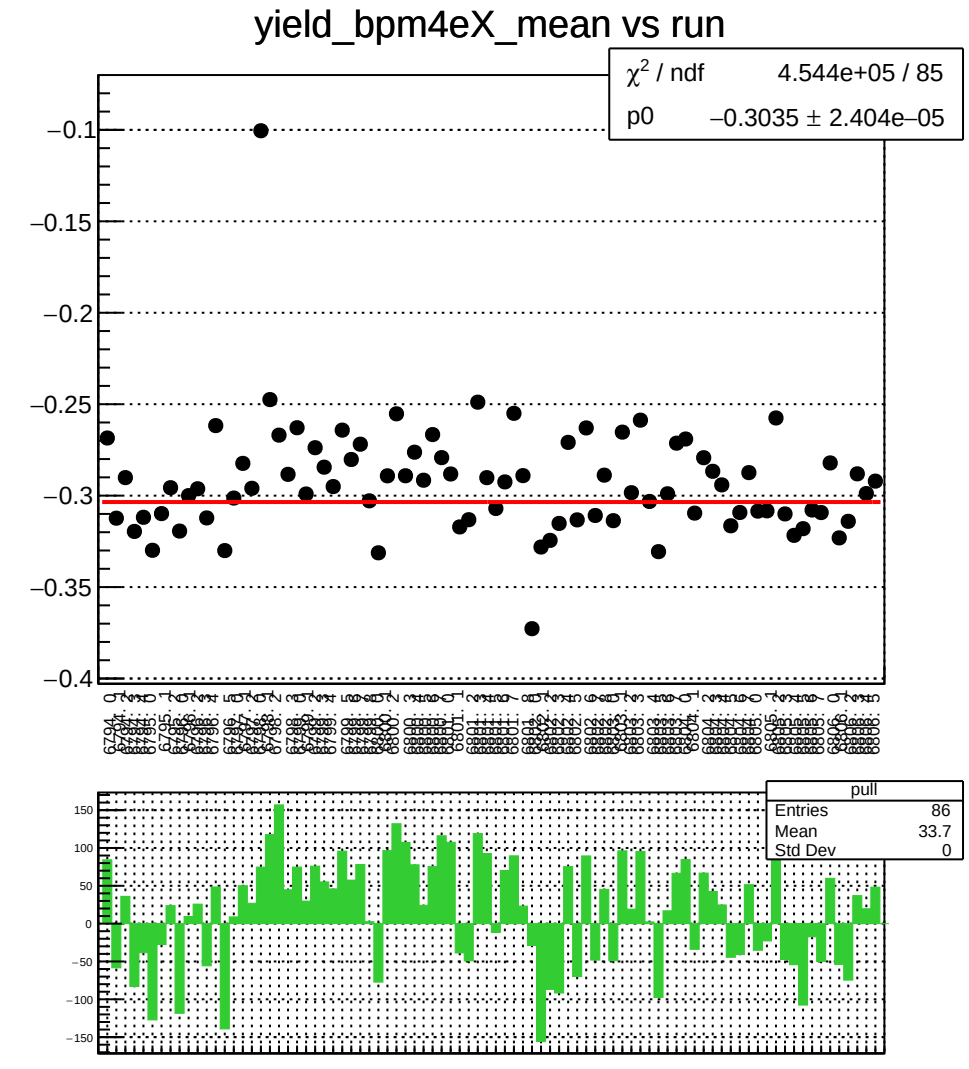

pull1D
Entries 86
Mean −1.202
Std Dev 5.036
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

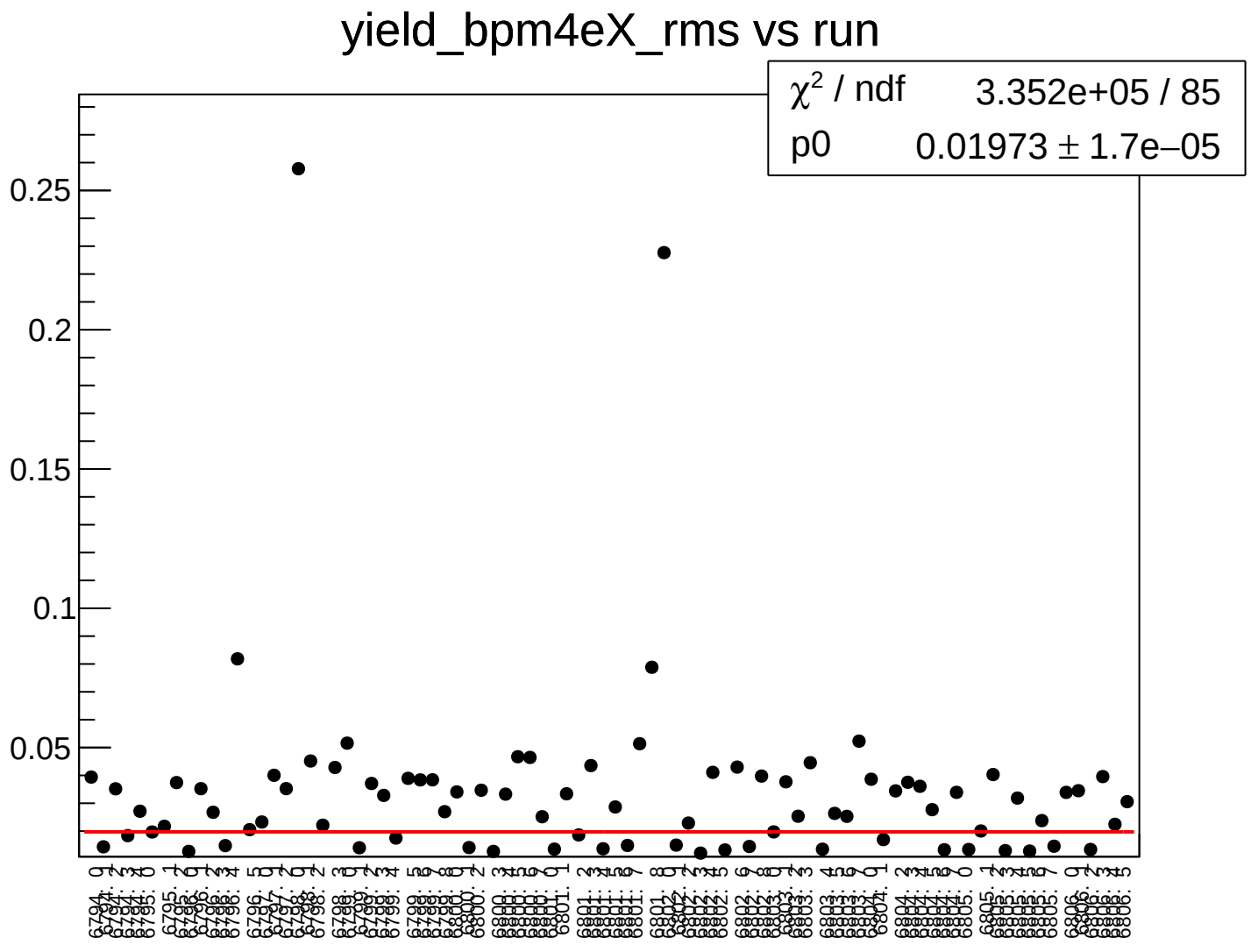

yield_bpm4aX_rms vs run
χ² / ndf 3.371e+05 / 85
p0 0.0206 ± 1.776e−05
0.25
0.2
0.15
0.1
0.05

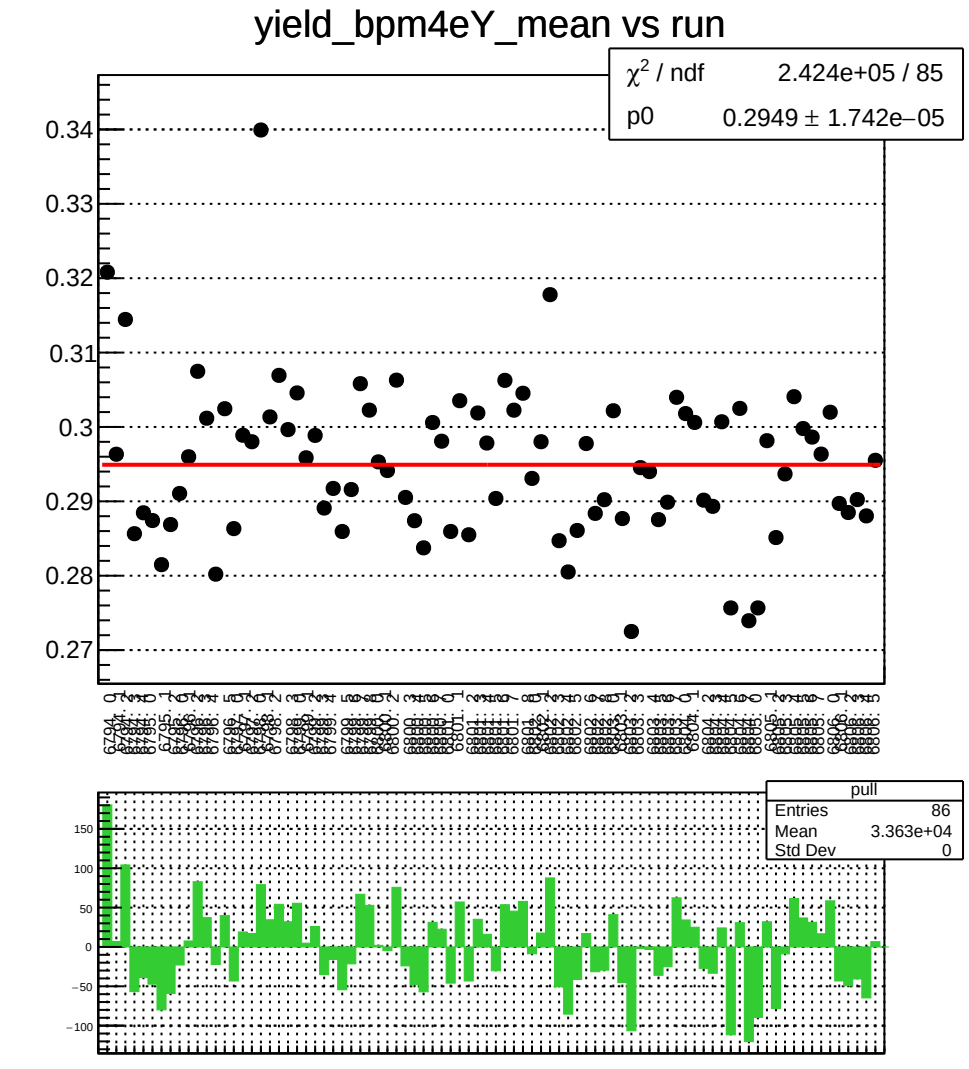

yield_bpm4aY_mean vs run
χ² / ndf 2.744e+05 / 85
p0 0.5312 ± 2.454e−05
pull
Entries 86
Mean −1078
Std Dev 0

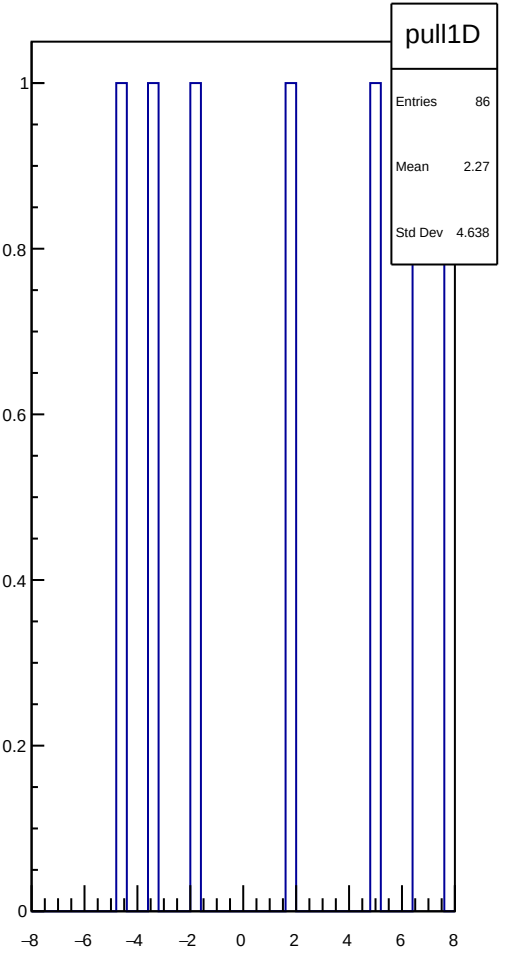

pull1D
Entries 86
Mean 2.829
Std Dev 4.935

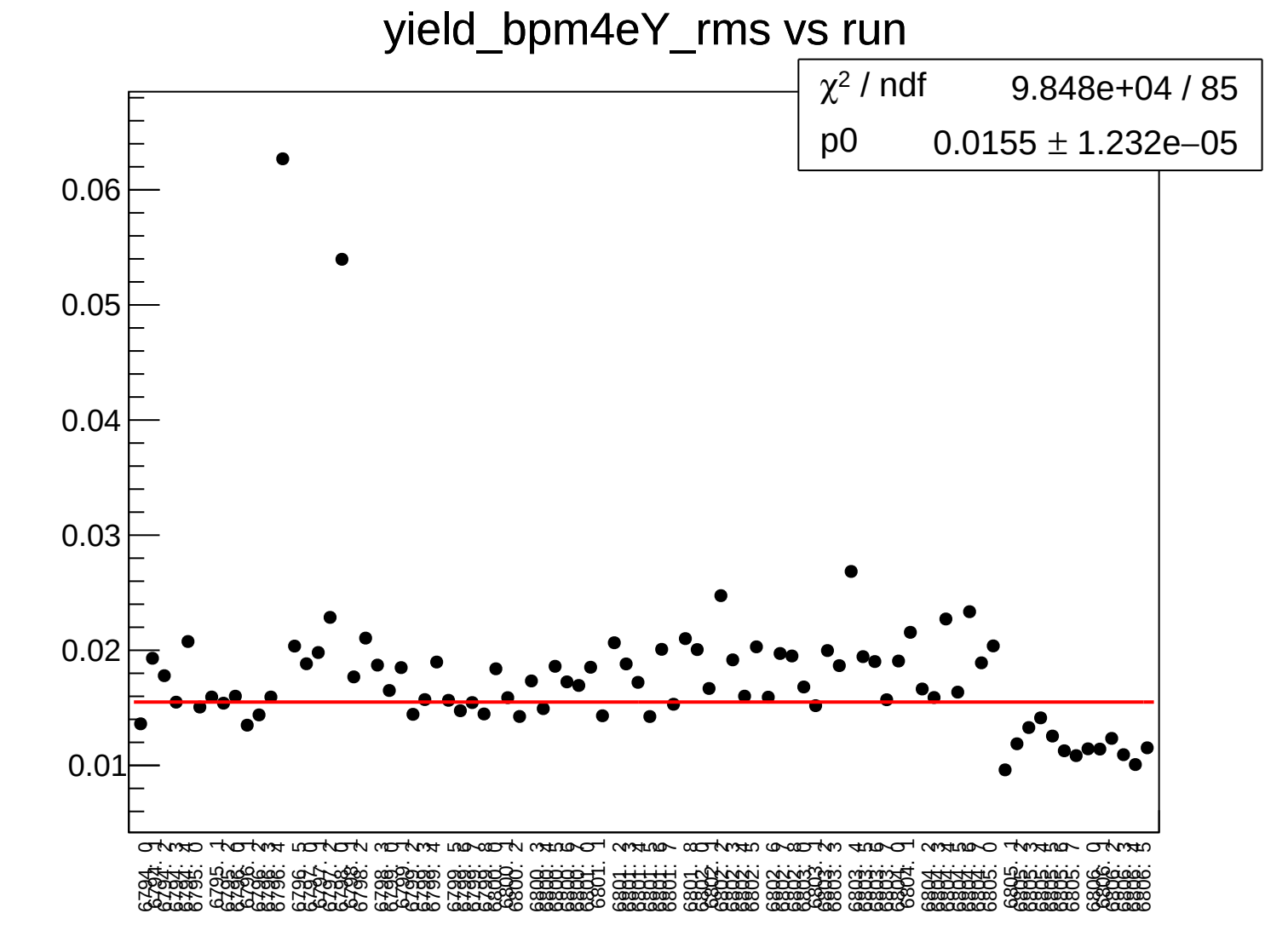

yield_bpm4aY_rms vs run
χ² / ndf 1.148e+05 / 85
p0 0.02173 ± 1.735e−05
0.06
0.05
0.04
0.03
0.02
0.01

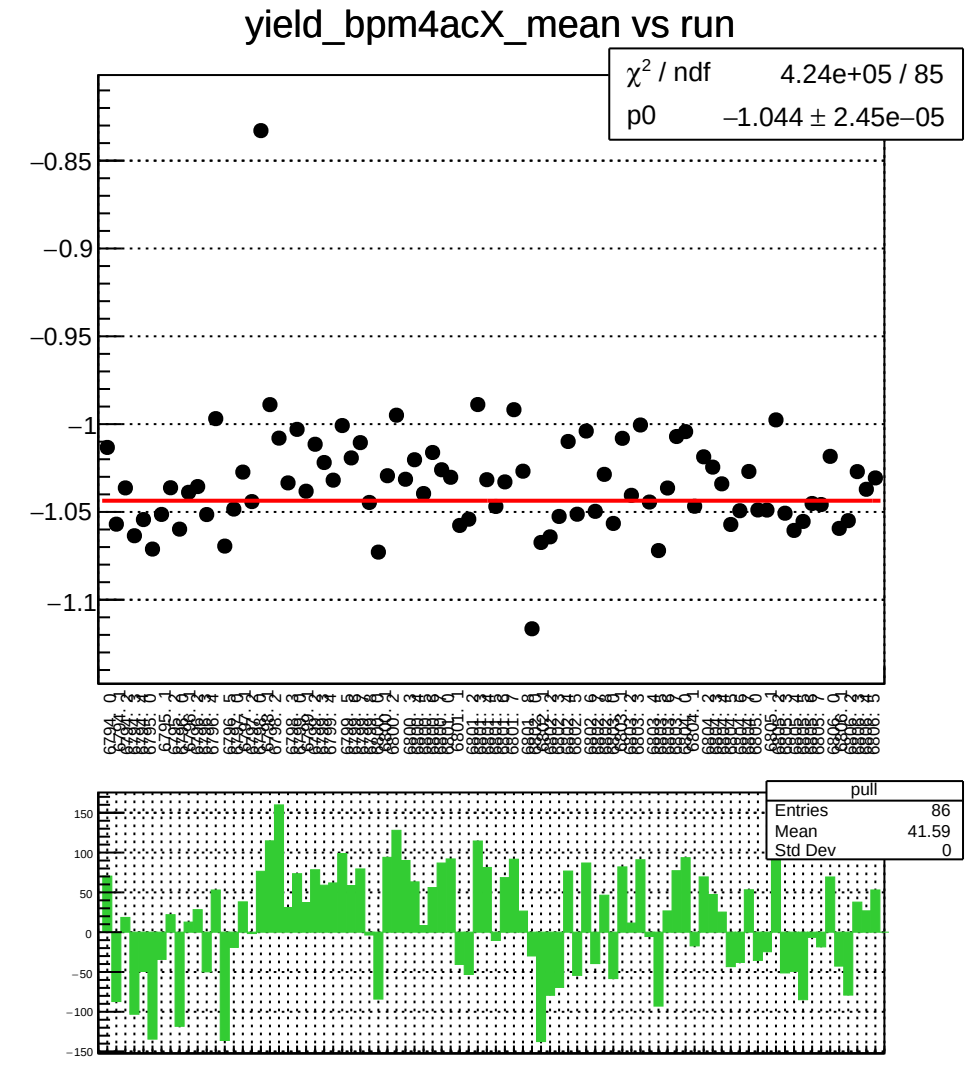

yield_bpm4eX_mean vs run
χ² / ndf 4.544e+05 / 85
p0 −0.3035 ± 2.404e−05
pull
Entries 86
Mean 33.7
Std Dev 0
pull1D
Entries 86
Mean 2.4
Std Dev 0.1361

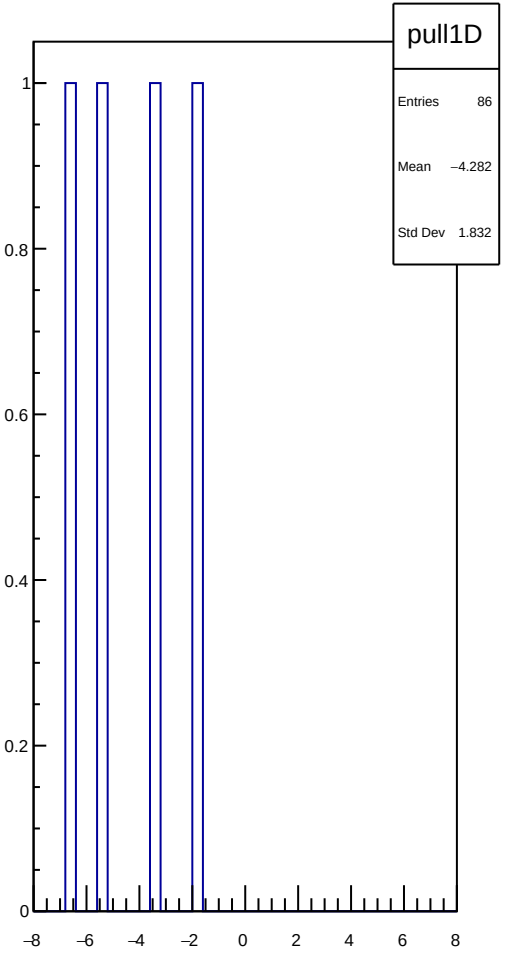

yield_bpm4eX_rms vs run
χ² / ndf 3.352e+05 / 85
p0 0.01973 ± 1.7e−05
0.25
0.2
0.15
0.1
0.05

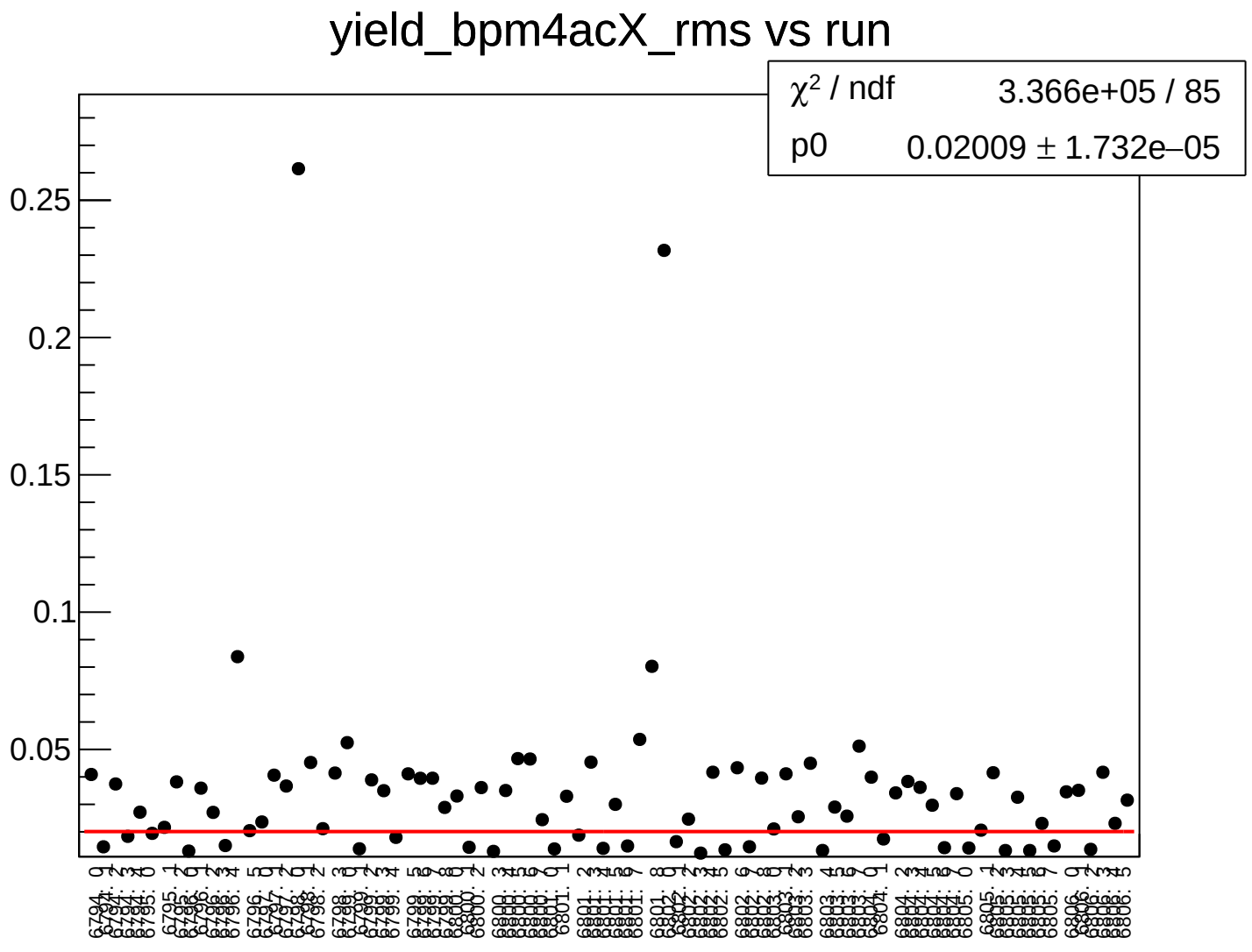

yield_bpm4eY_mean vs run
χ² / ndf 2.424e+05 / 85
p0 0.2949 ± 1.742e−05
0.34
0.33
0.32
0.31
0.3
0.29
0.28
0.27
pull
Entries 86
Mean 3.363e+04
Std Dev 0
150
100
50
0
−50
−100

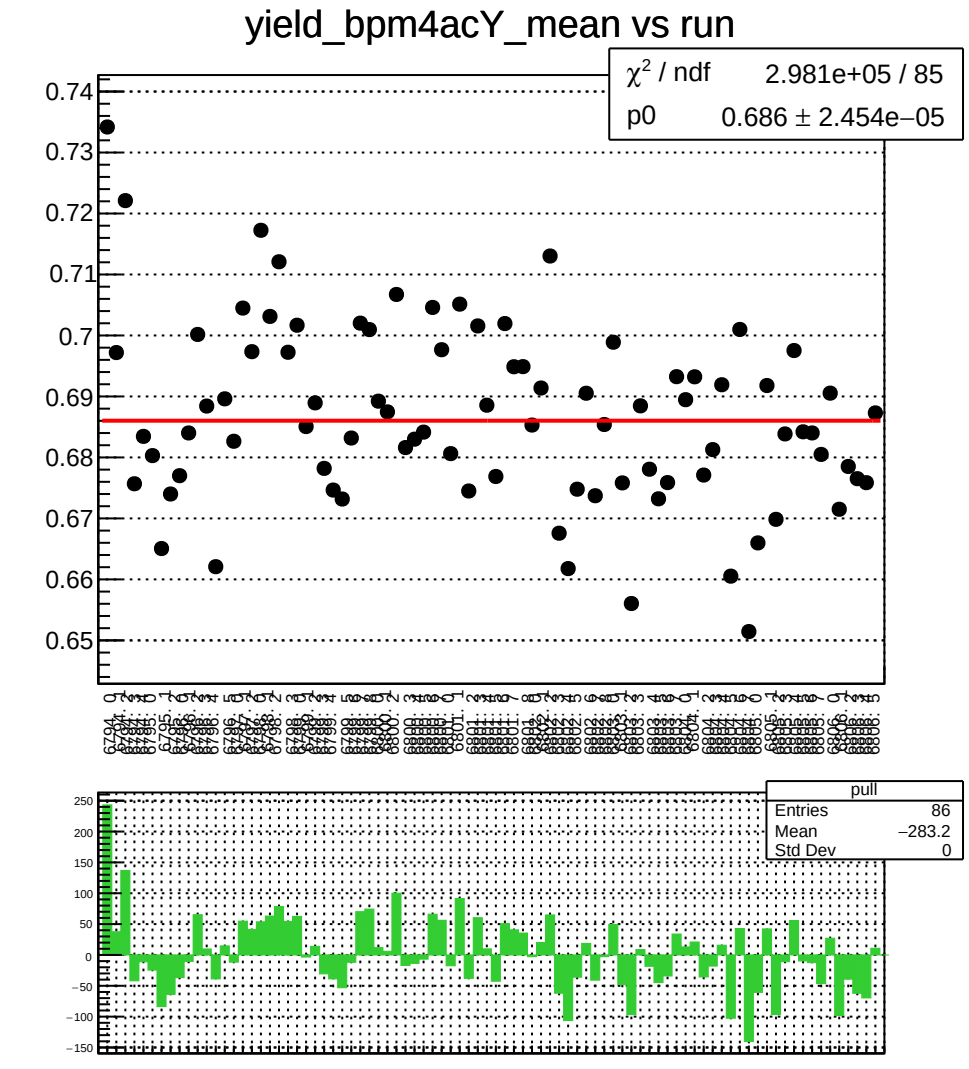

pull1D
Entries 86
Mean 2.27
Std Dev 4.638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

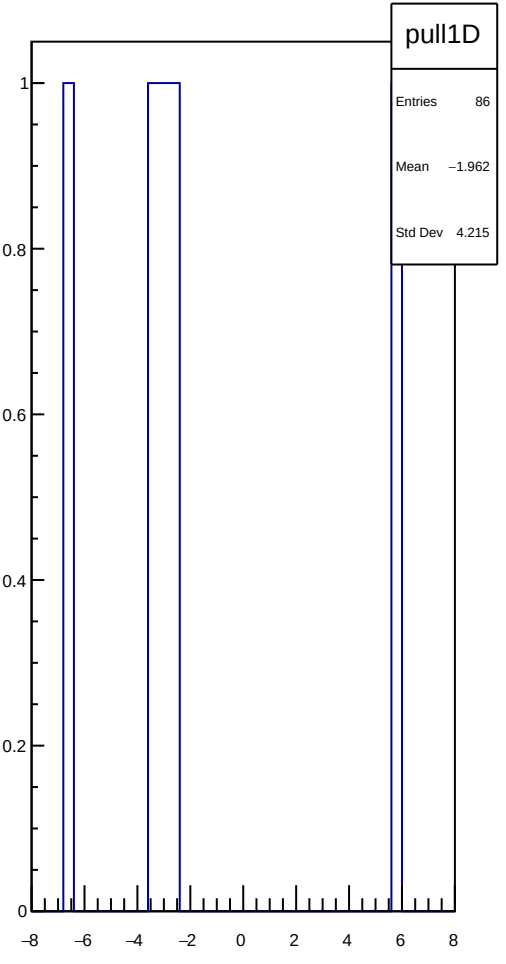

yield_bpm4eY_rms vs run
χ^2 / ndf 9.848e+04 / 85
p0 0.0155 ± 1.232e−05
0.06
0.05
0.04
0.03
0.02
0.01

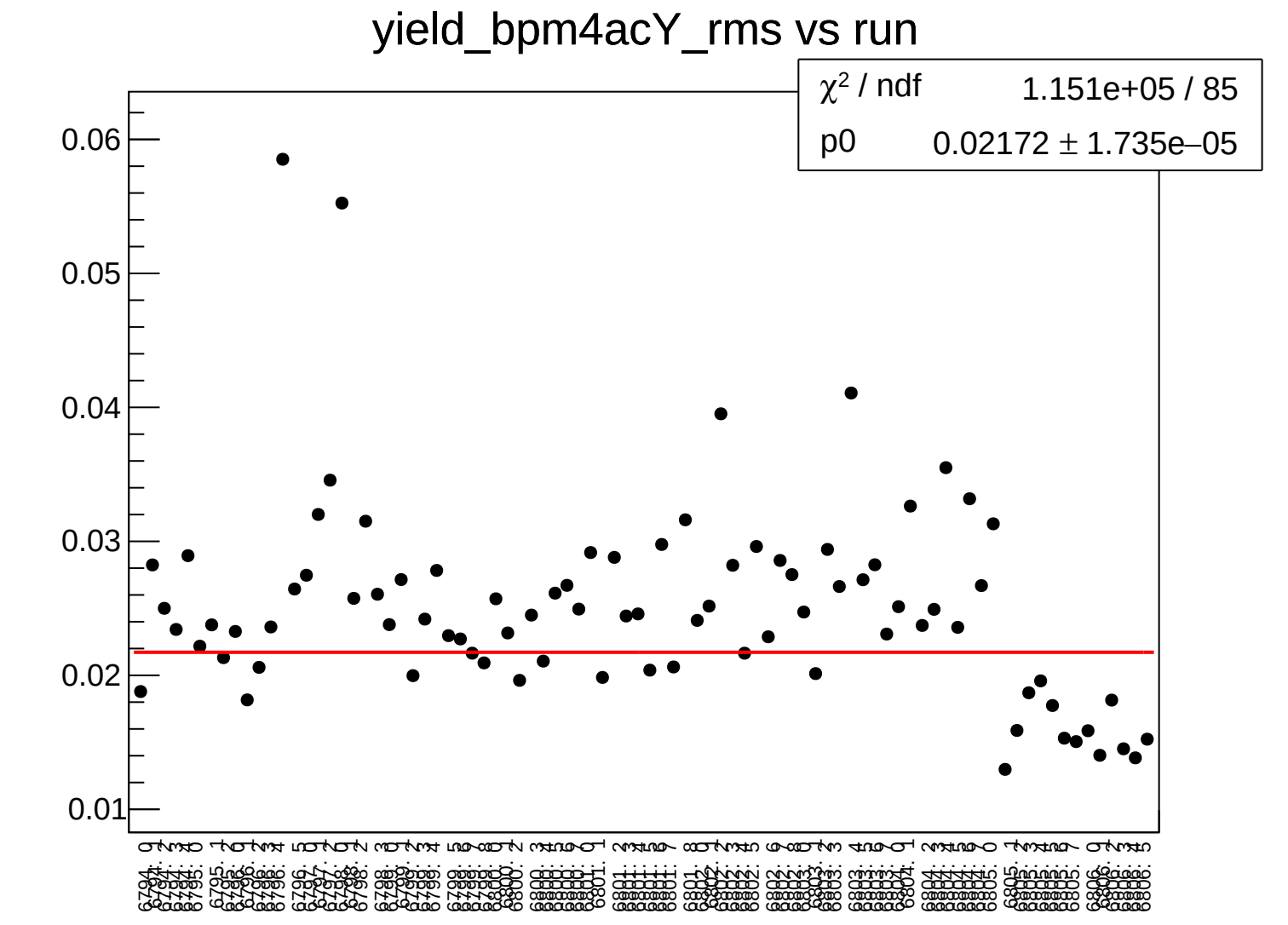

yield_bpm4acX_mean vs run
χ² / ndf 4.24e+05 / 85
p0 −1.044 ± 2.45e−05
−0.85
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 86
Mean 41.59
Std Dev 0
150
100
50
0
−50
−100
−150

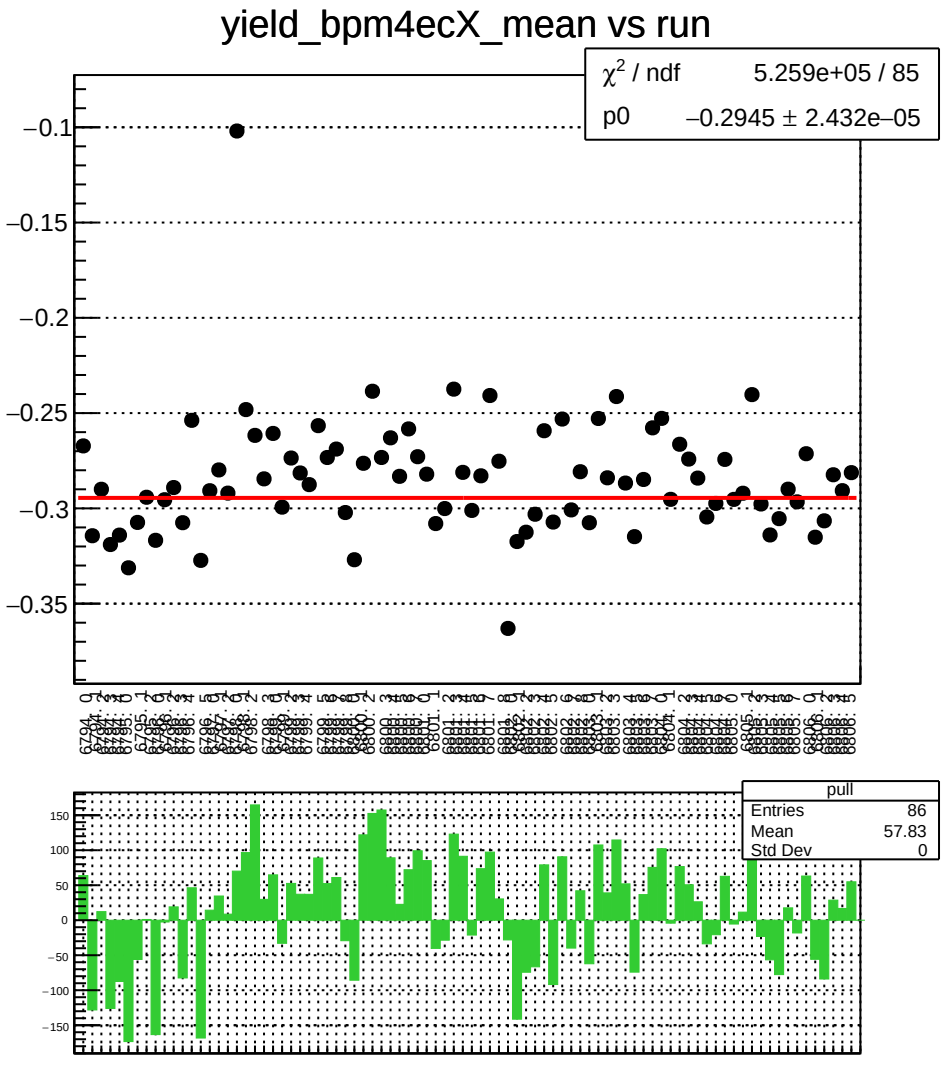

pull1D
Entries 86
Mean −4.282
Std Dev 1.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

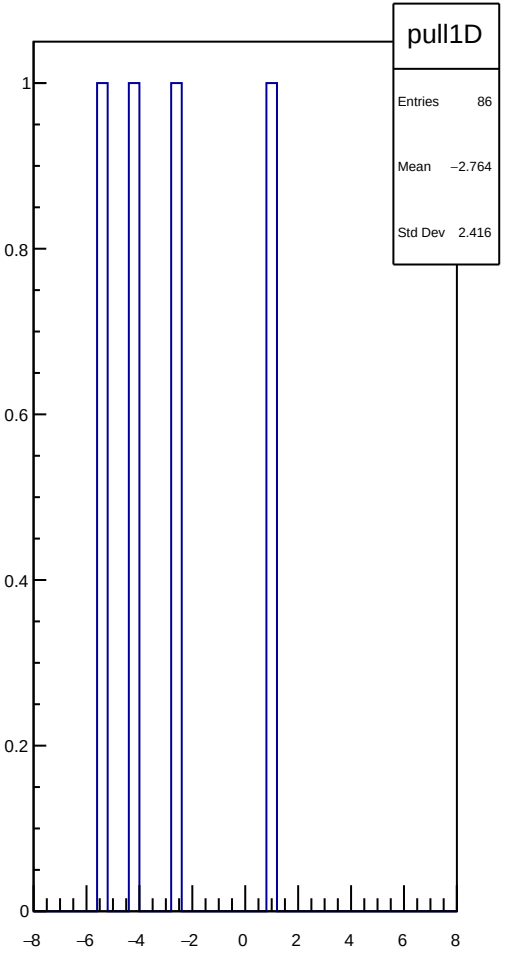

yield_bpm4acX_rms vs run
χ² / ndf 3.366e+05 / 85
p0 0.02009 ± 1.732e–05
0.25
0.2
0.15
0.1
0.05

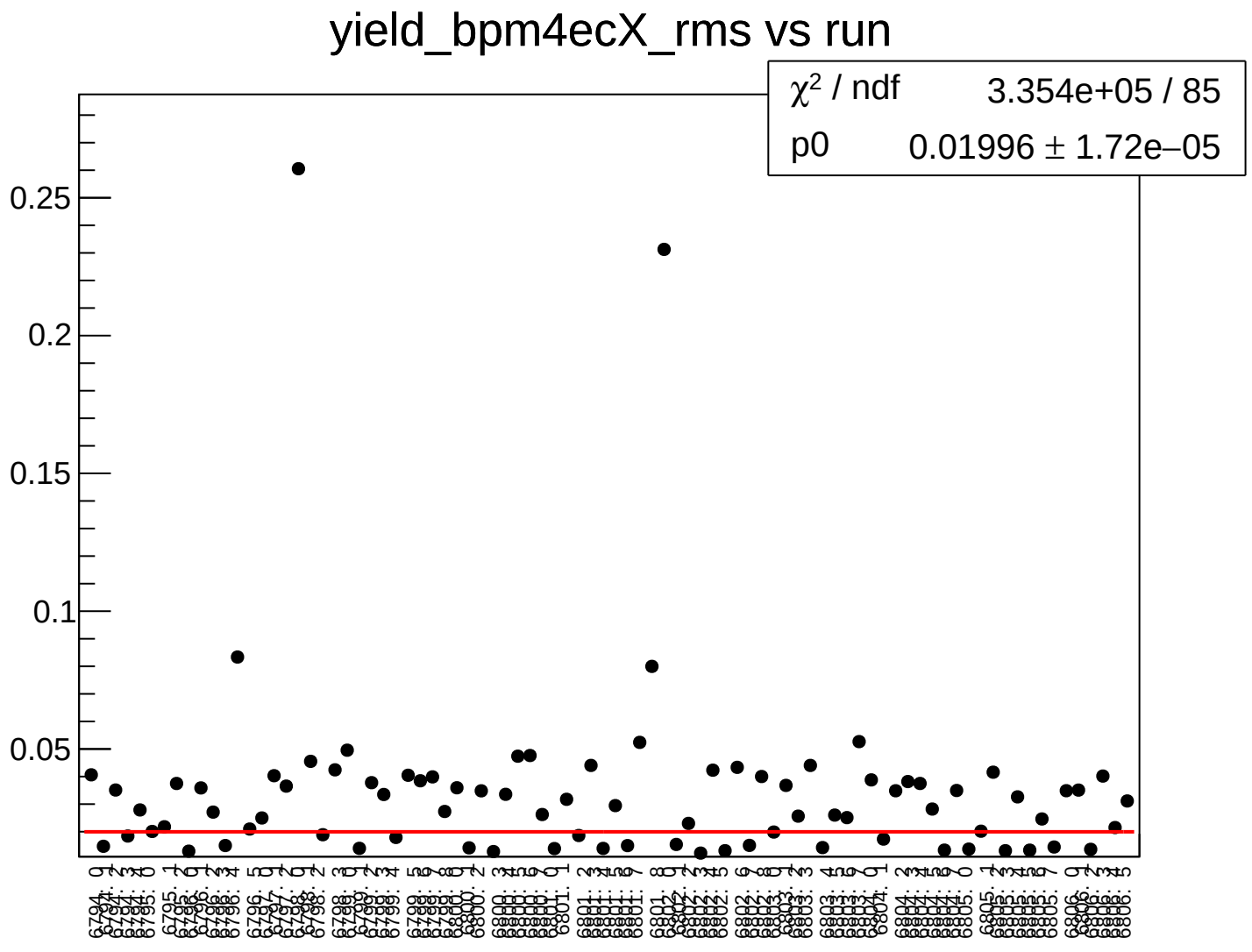

yield_bpm4acY_mean vs run
χ² / ndf 2.981e+05 / 85
p0 0.686 ± 2.454e−05
0.74
0.73
0.72
0.71
0.7
0.69
0.68
0.67
0.66
0.65
pull
Entries 86
Mean −283.2
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

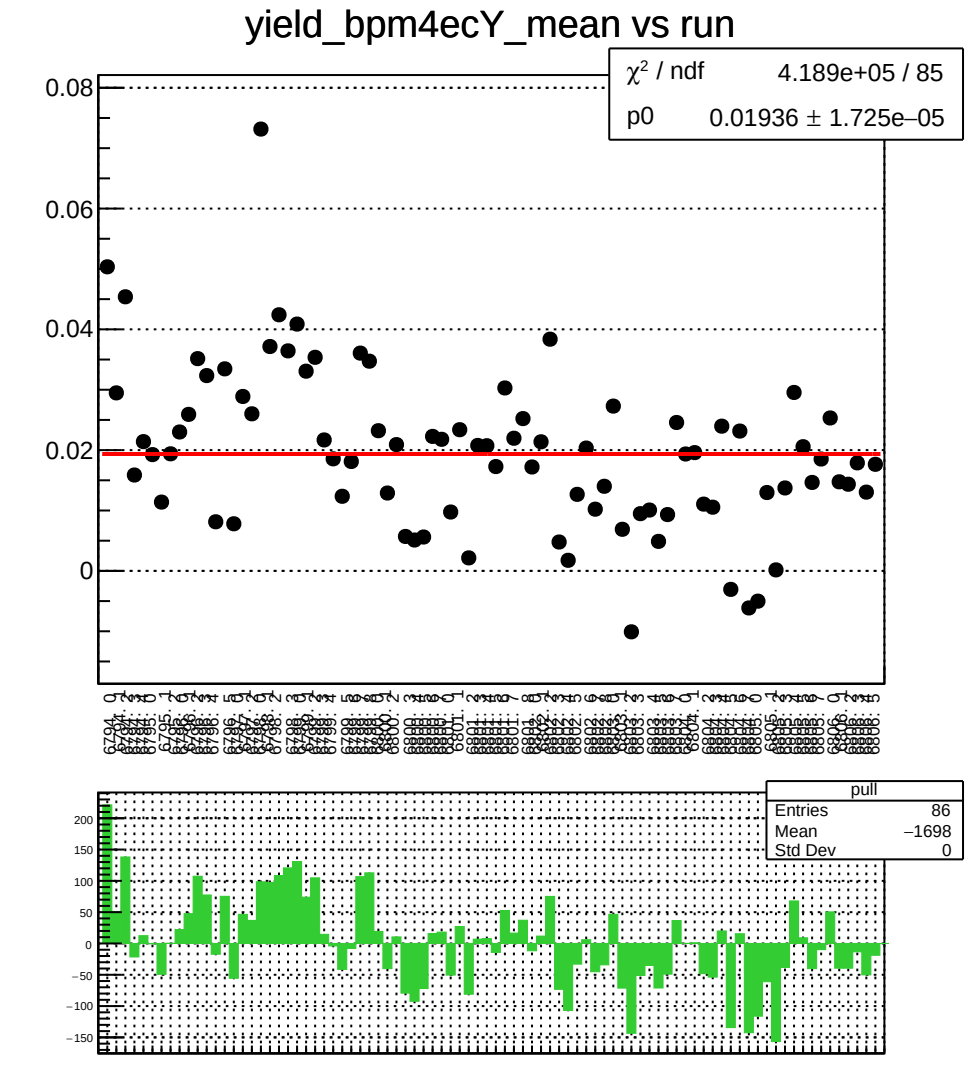

pull1D
Entries 86
Mean −1.962
Std Dev 4.215
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

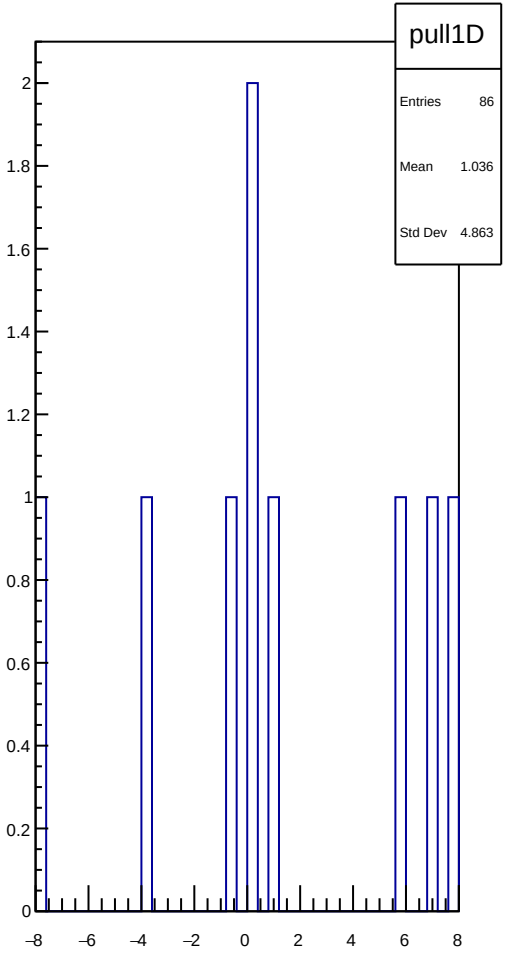

yield_bpm4acY_rms vs run
χ² / ndf 1.151e+05 / 85
p0 0.02172 ± 1.735e−05
0.06
0.05
0.04
0.03
0.02
0.01

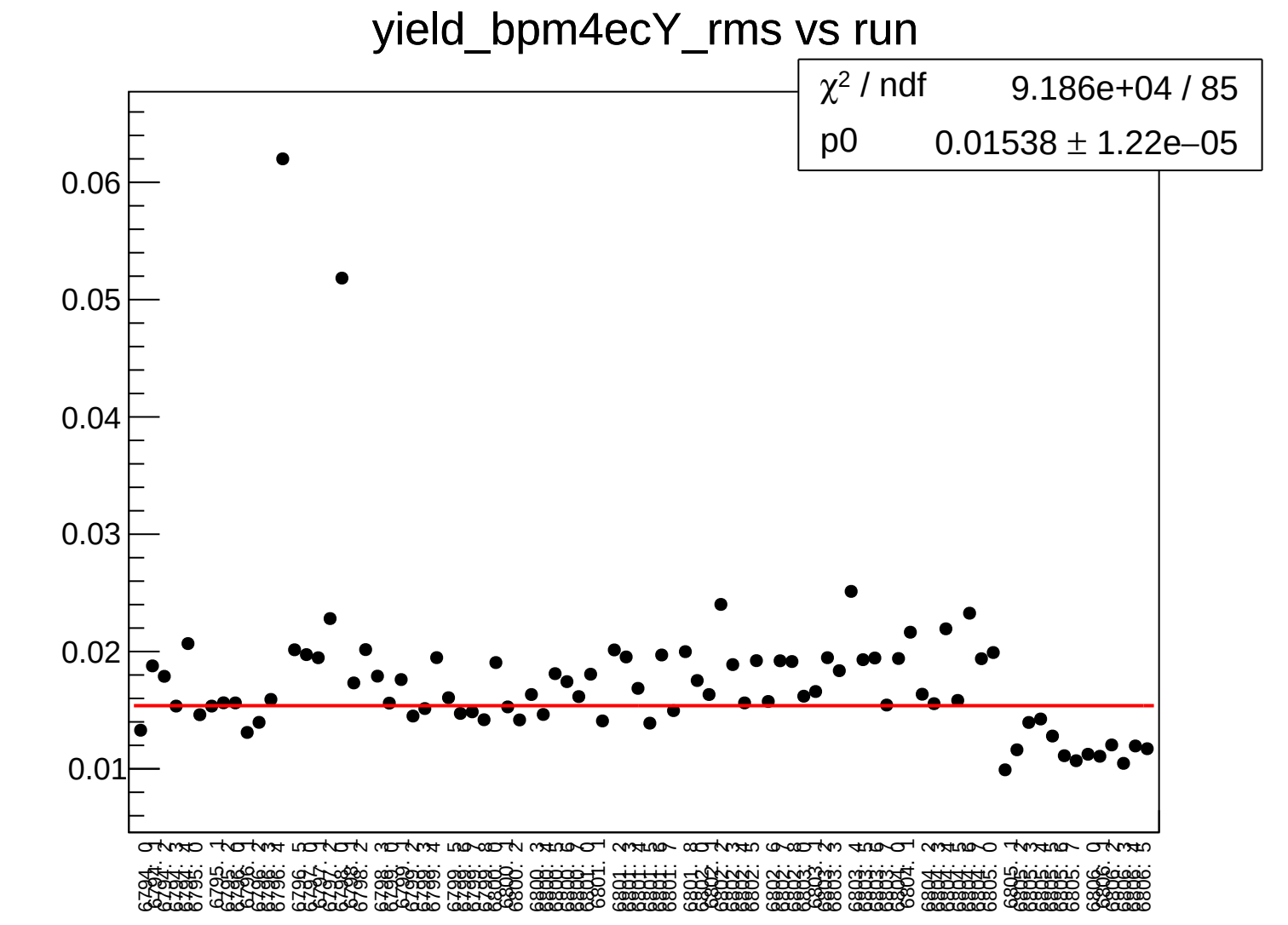

yield_bpm4ecX_mean vs run
χ² / ndf 5.259e+05 / 85
p0 −0.2945 ± 2.432e−05
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
pull
Entries 86
Mean 57.83
Std Dev 0
150
100
50
0
−50
−100
−150

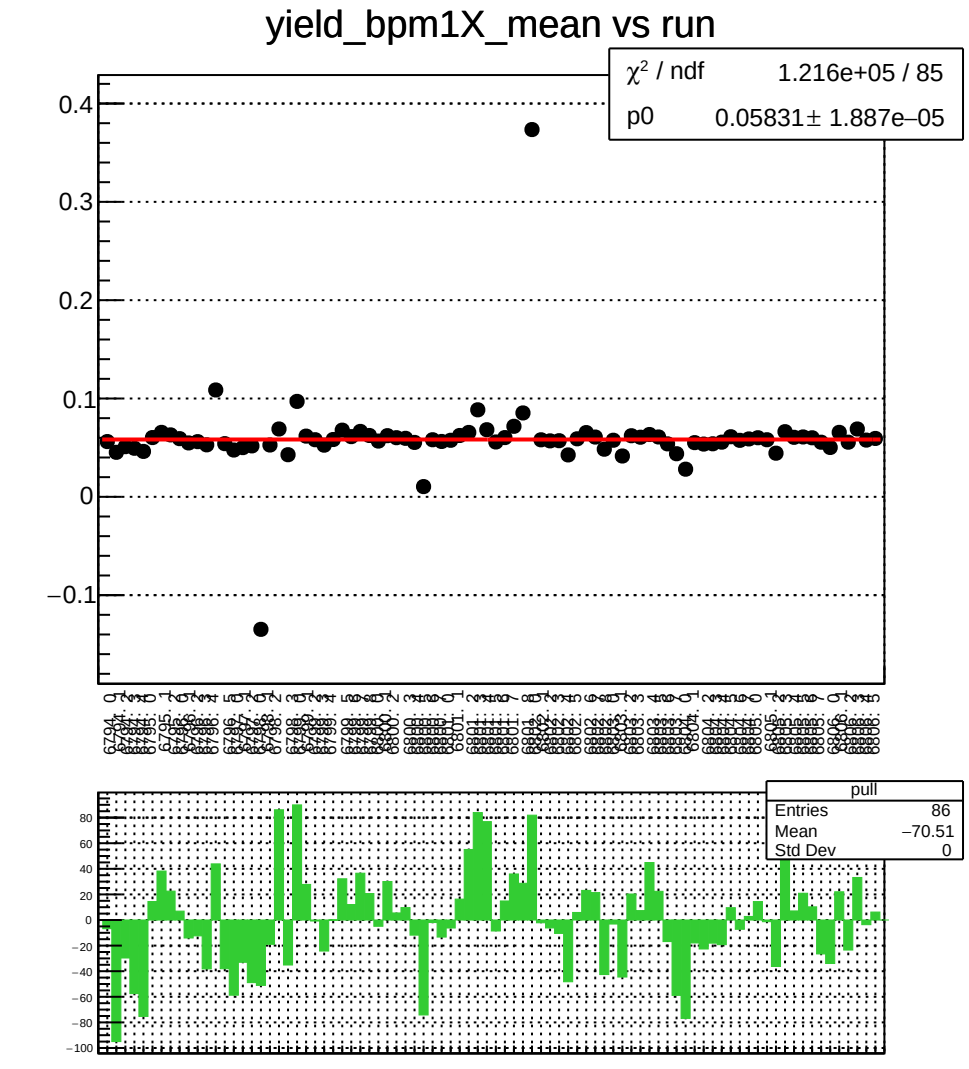

pull1D
Entries 86
Mean −2.764
Std Dev 2.416
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

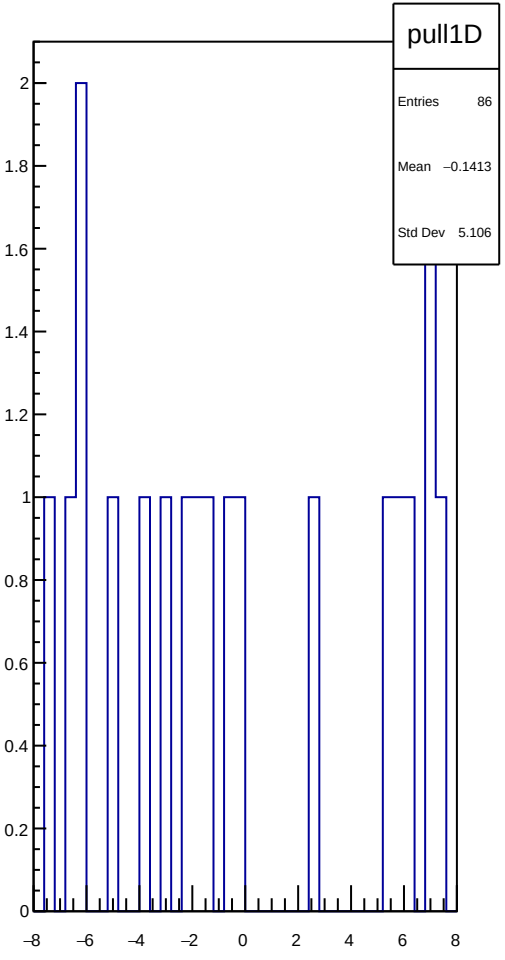

yield_bpm4ecX_rms vs run
χ² / ndf 3.354e+05 / 85
p0 0.01996 ± 1.72e−05
0.25
0.2
0.15
0.1
0.05

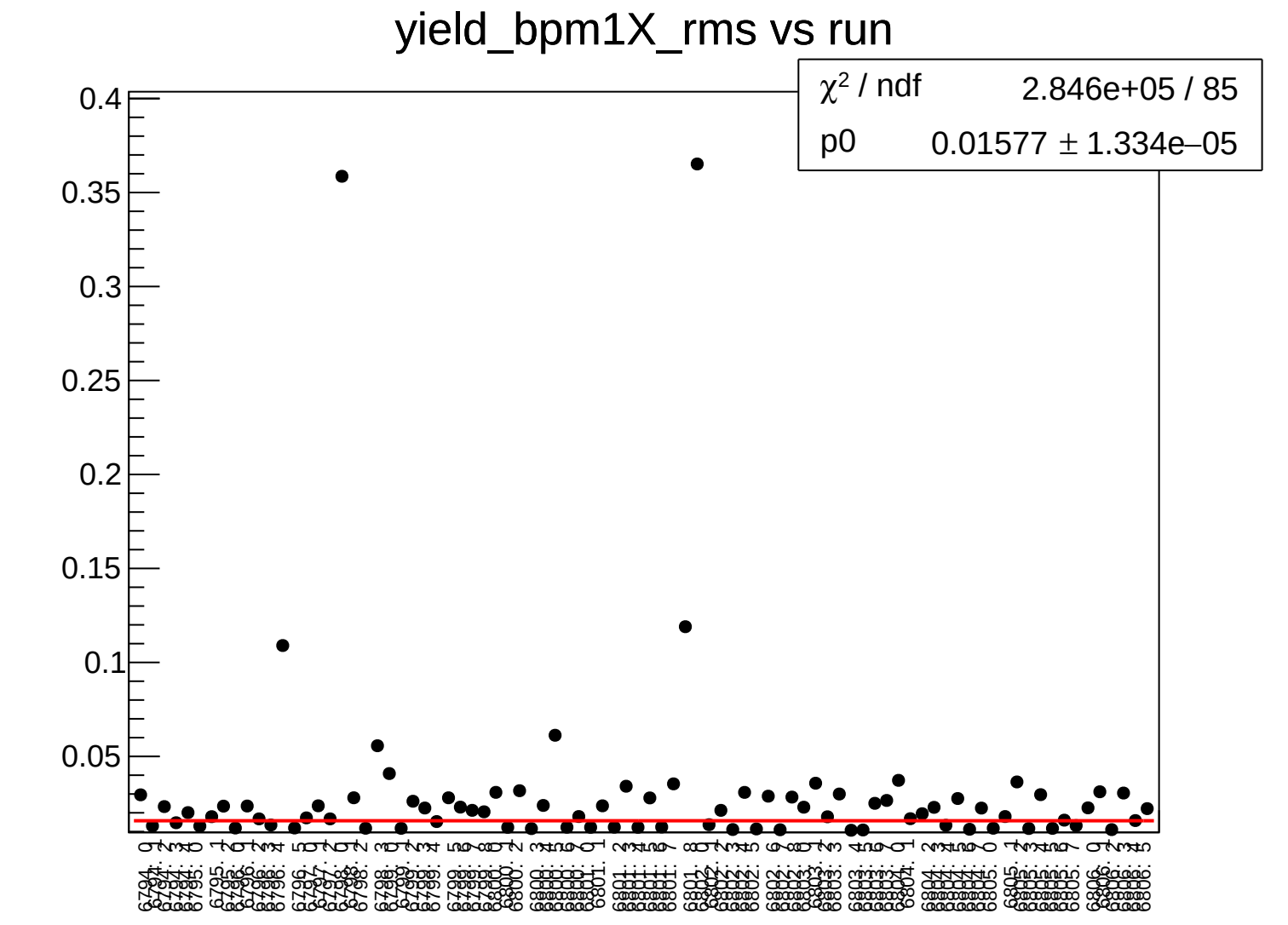

yield_bpm4ecY_mean vs run
χ² / ndf 4.189e+05 / 85
p0 0.01936 ± 1.725e−05
0.08
0.06
0.04
0.02
0
pull
Entries 86
Mean −1698
Std Dev 0
200
150
100
50
0
−50
−100
−150

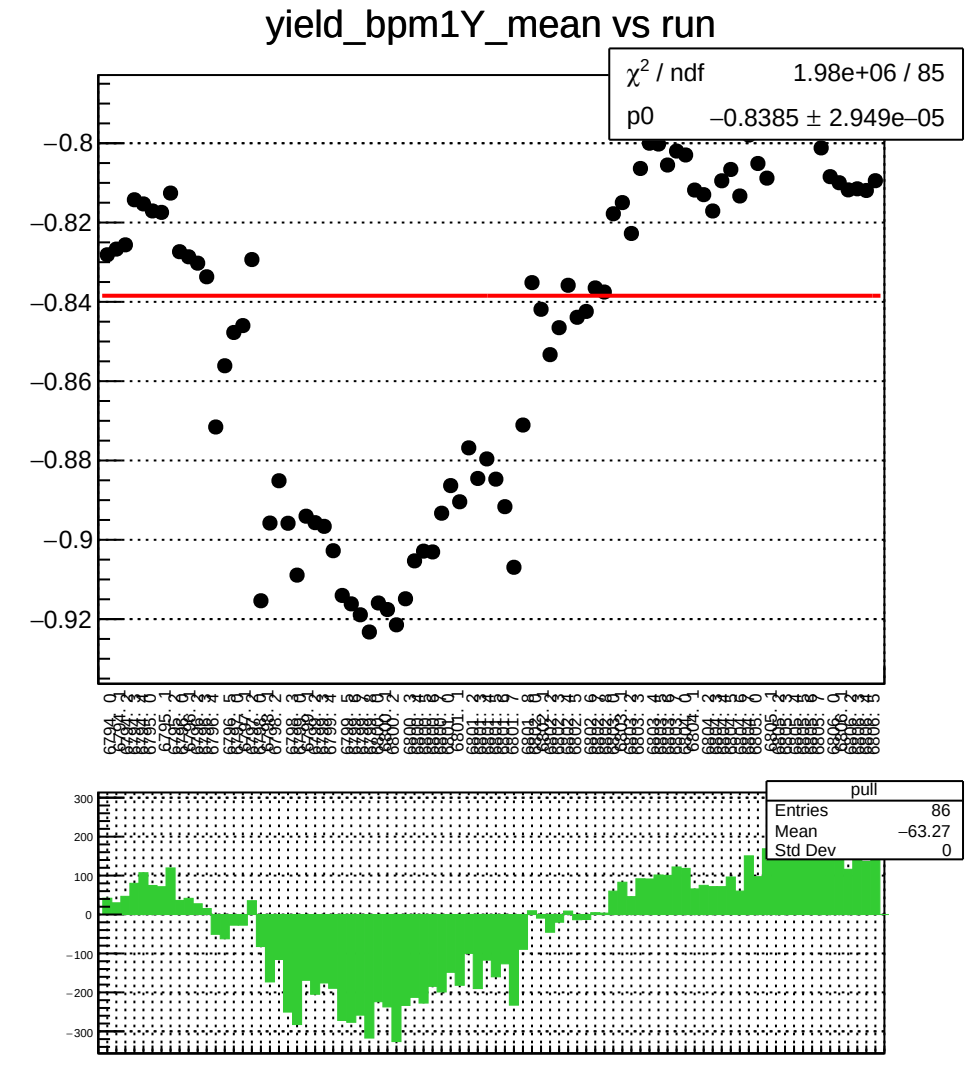

pull1D
Entries 86
Mean 1.036
Std Dev 4.863
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

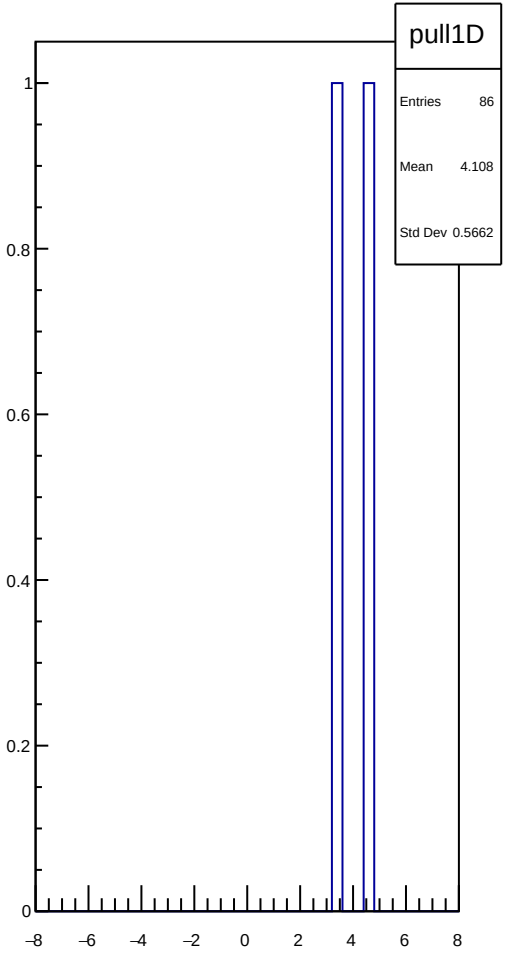

yield_bpm4ecY_rms vs run
χ² / ndf 9.186e+04 / 85
p0 0.01538 ± 1.22e−05
0.06
0.05
0.04
0.03
0.02
0.01

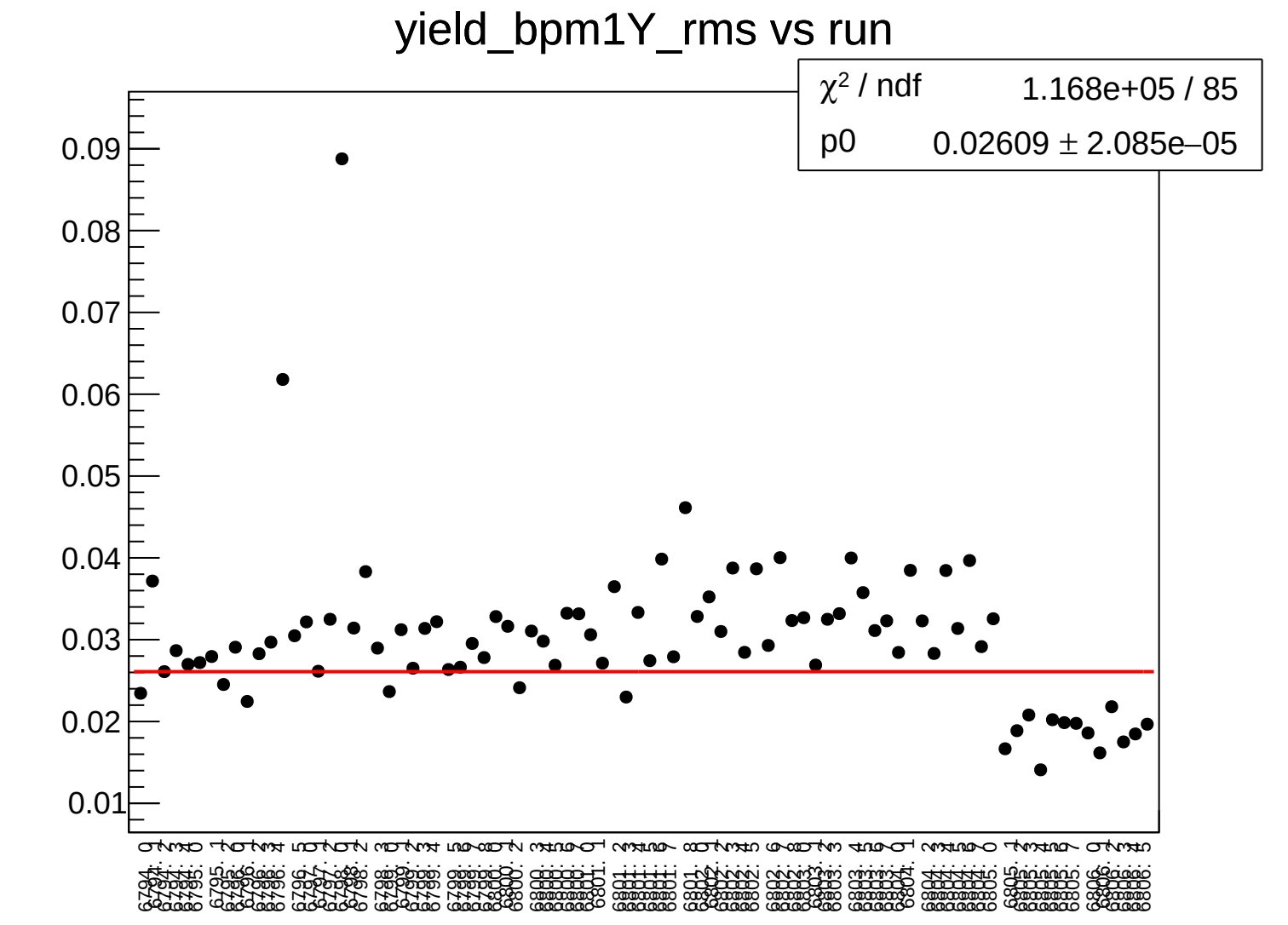

yield_bpm1X_mean vs run
χ² / ndf 1.216e+05 / 85
p0 0.05831± 1.887e−05
pull
Entries 86
Mean −70.51
Std Dev 0

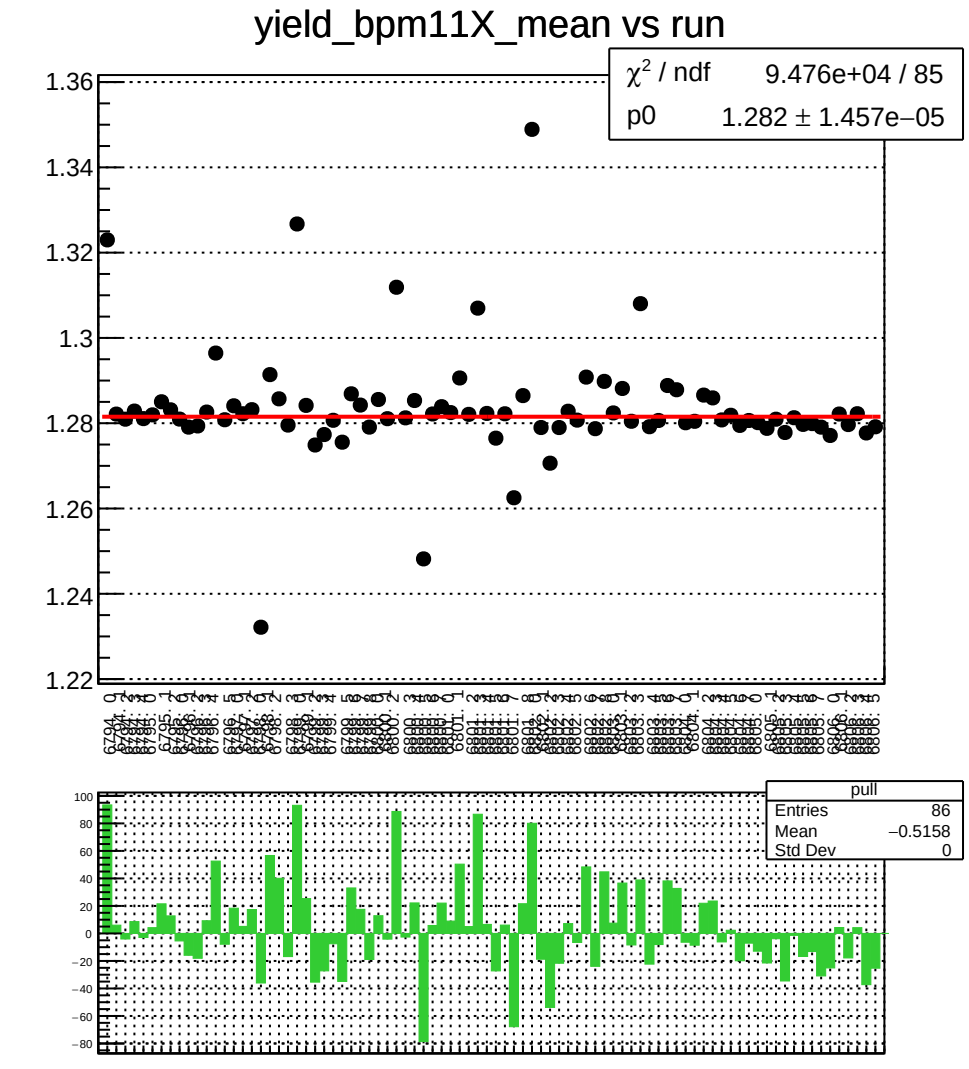

pull1D
Entries 86
Mean −0.1413
Std Dev 5.106

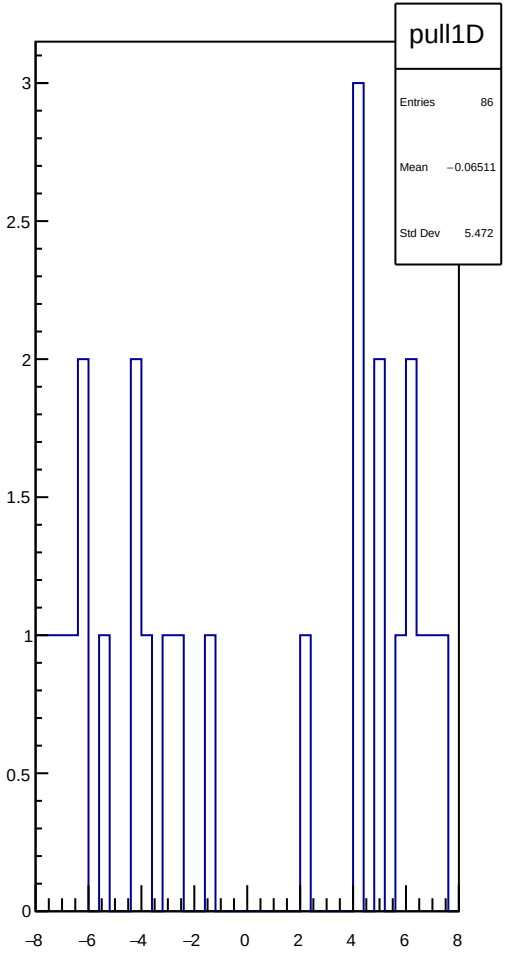

yield_bpm1X_rms vs run
χ² / ndf 2.846e+05 / 85
p0 0.01577 ± 1.334e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

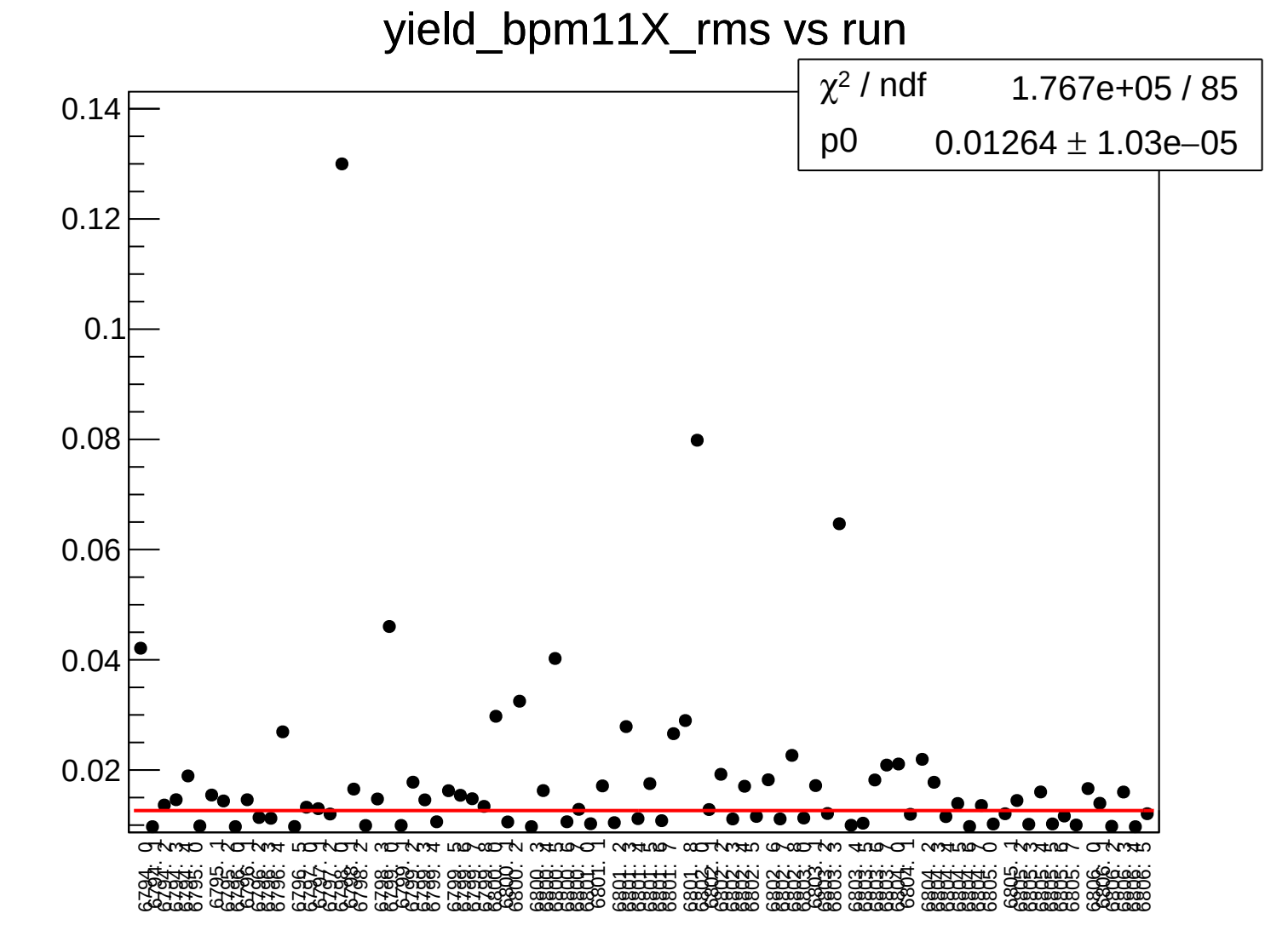

yield_bpm1Y_mean vs run
χ² / ndf 1.98e+06 / 85
p0 −0.8385 ± 2.949e−05
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 86
Mean −63.27
Std Dev 0
300
200
100
0
−100
−200
−300

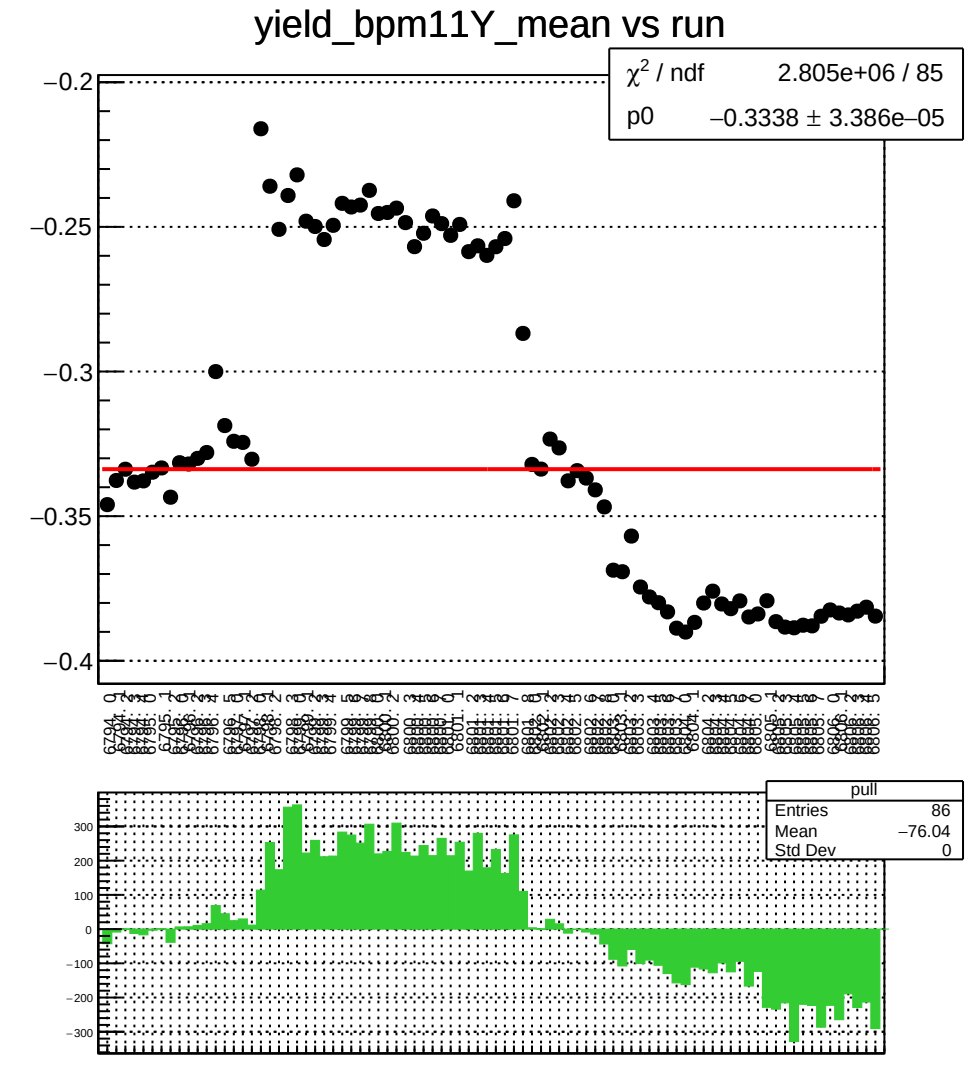

pull1D
Entries 86
Mean 4.108
Std Dev 0.5662
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

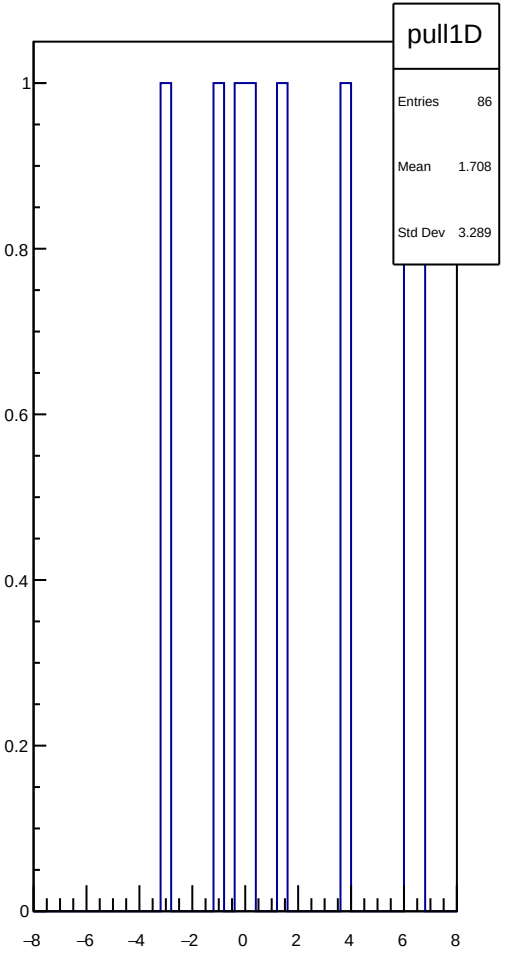

yield_bpm1Y_rms vs run
χ² / ndf 1.168e+05 / 85
p0 0.02609 ± 2.085e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

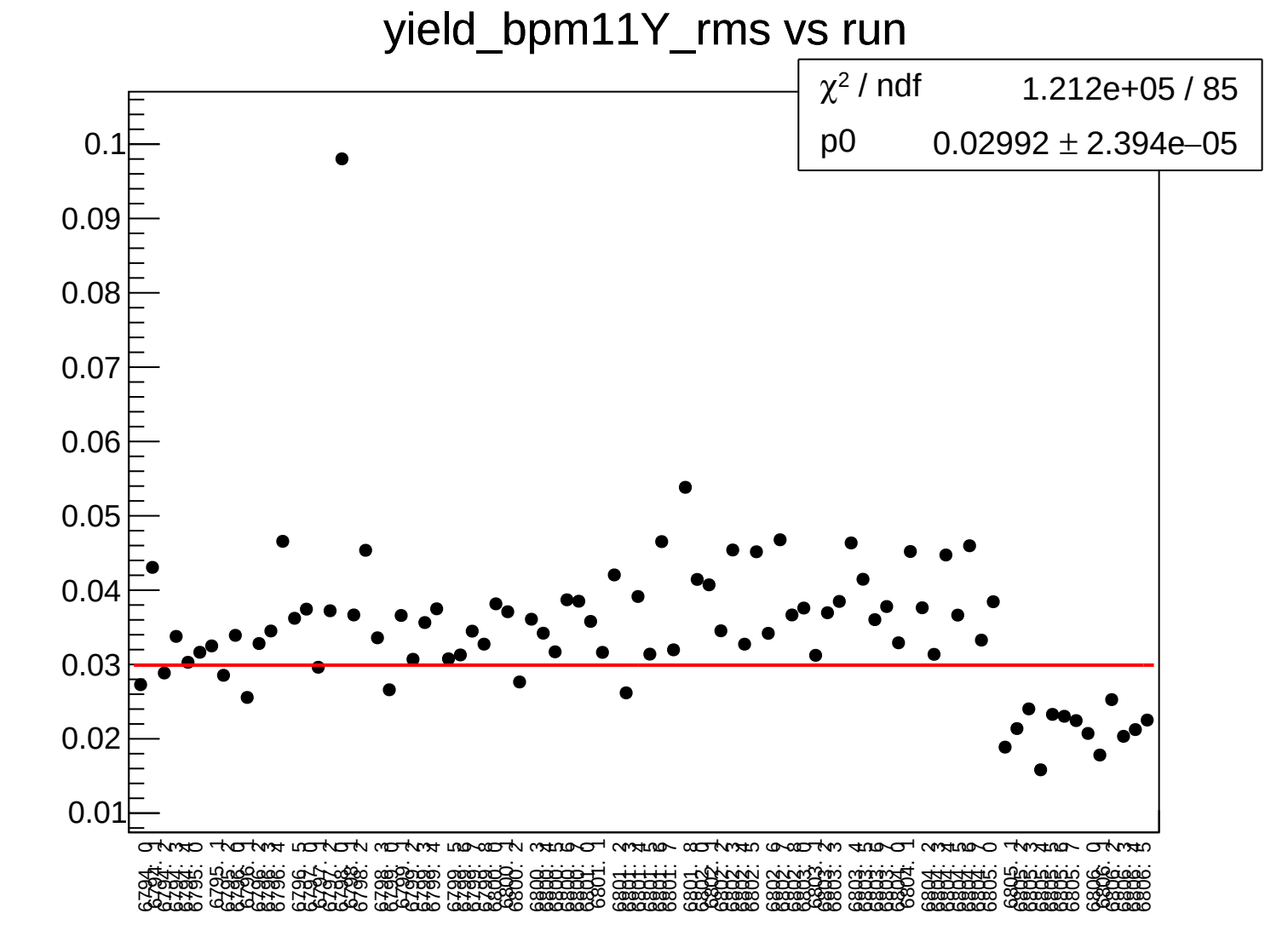

yield_bpm11X_mean vs run
χ² / ndf 9.476e+04 / 85
p0 1.282 ± 1.457e−05
1.36
1.34
1.32
1.3
1.28
1.26
1.24
1.22
pull
Entries 86
Mean −0.5158
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

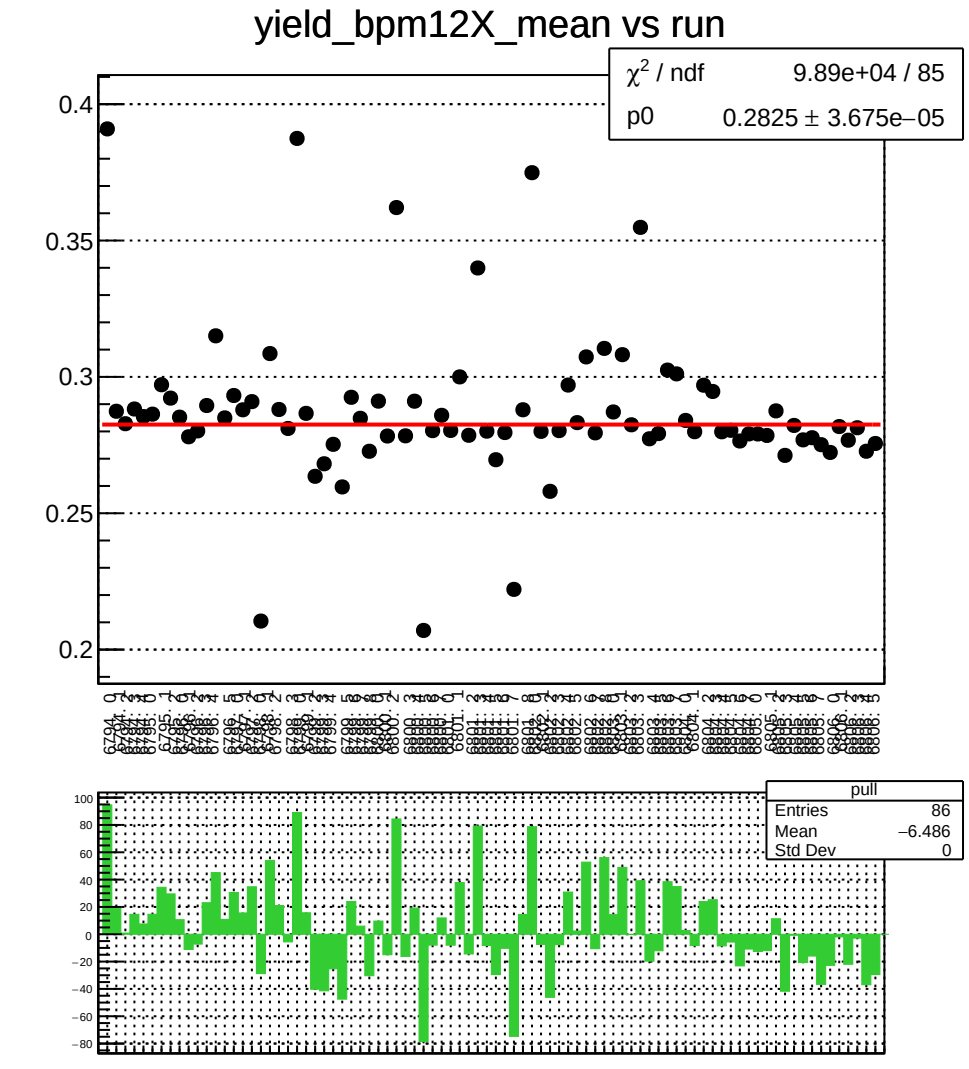

pull1D
Entries 86
Mean −0.06511
Std Dev 5.472
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

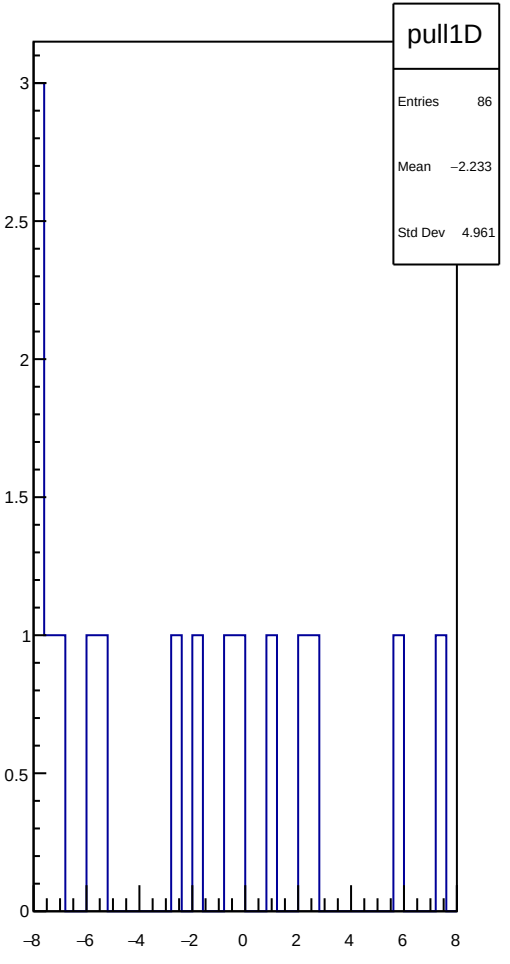

yield_bpm11X_rms vs run
χ² / ndf 1.767e+05 / 85
p0 0.01264 ± 1.03e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

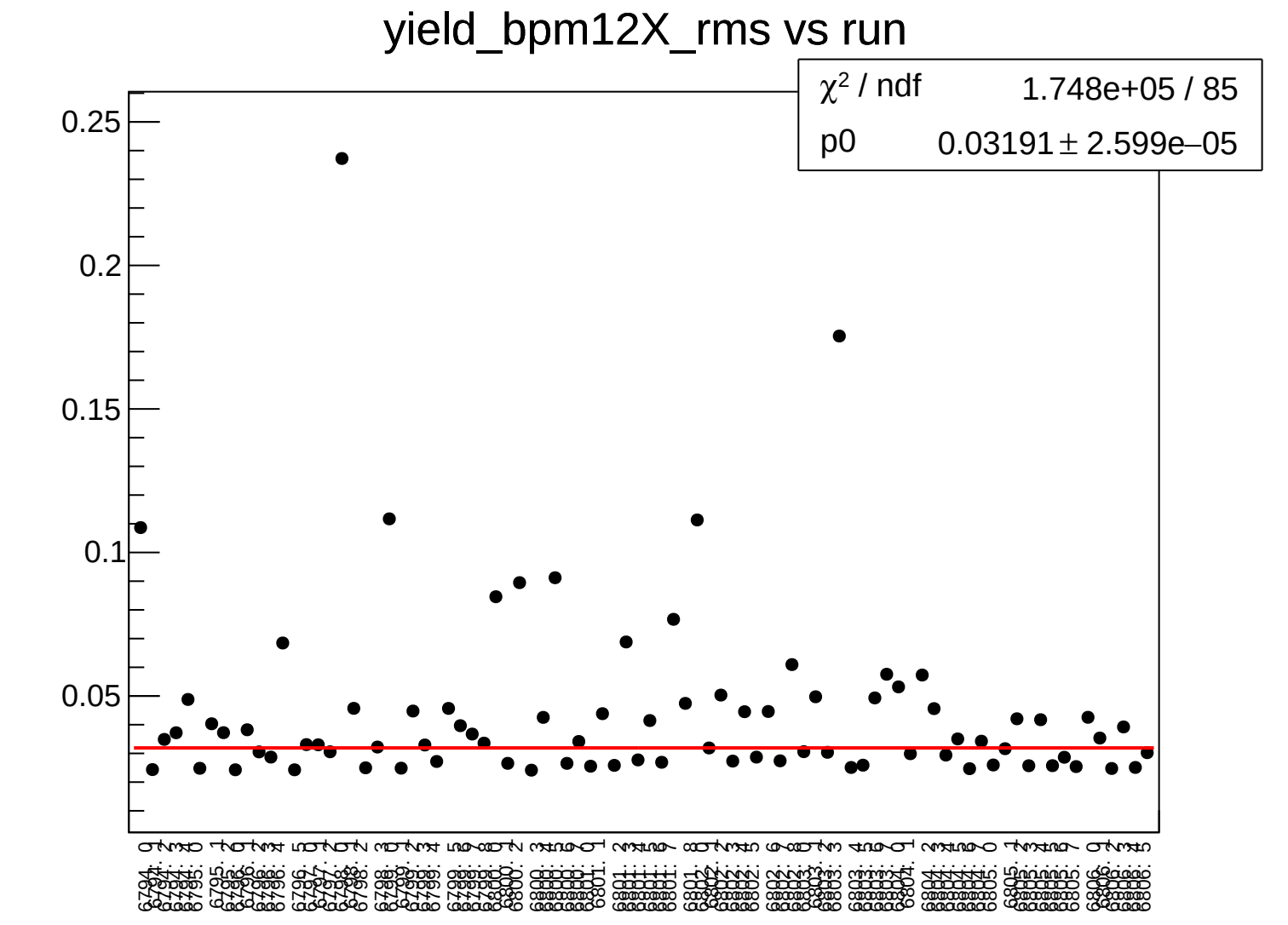

yield_bpm11Y_mean vs run
χ² / ndf 2.805e+06 / 85
p0 −0.3338 ± 3.386e−05
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 86
Mean −76.04
Std Dev 0
300
200
100
0
−100
−200
−300

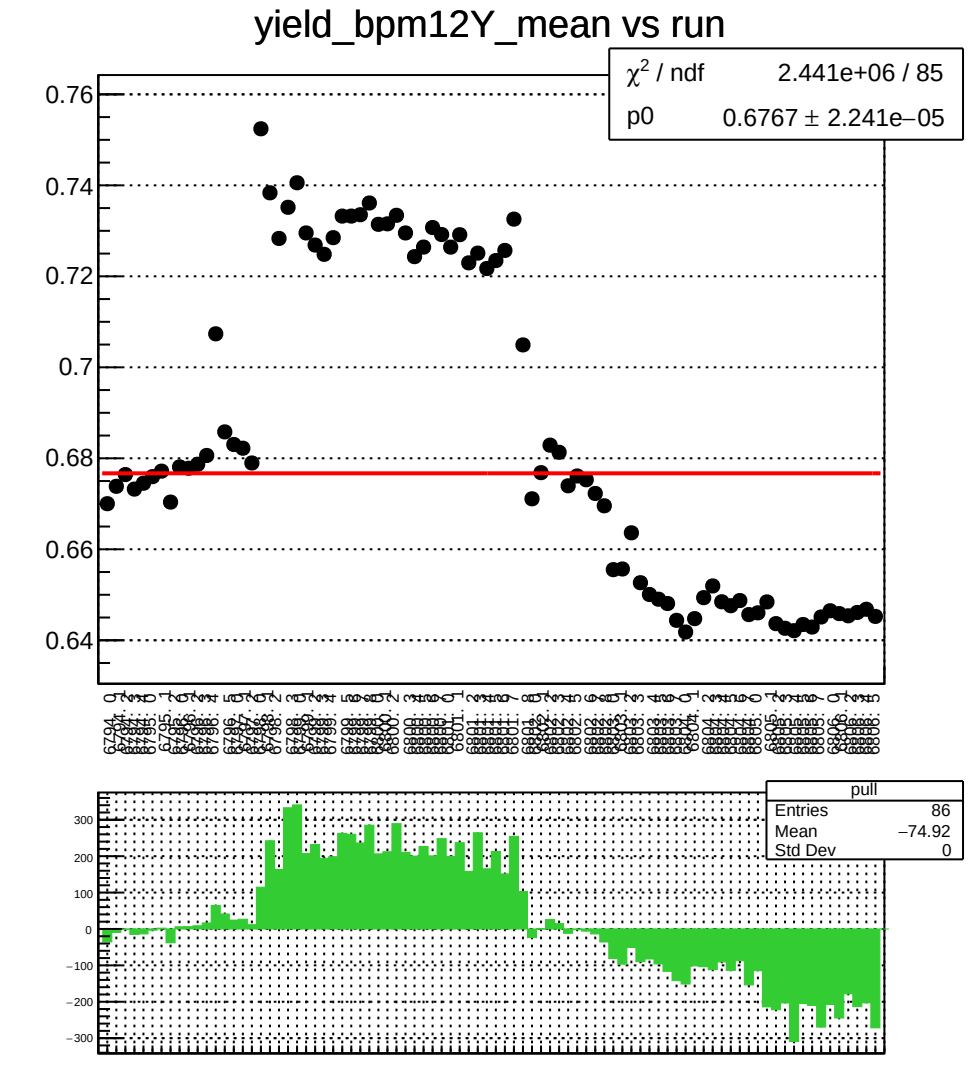

pull1D
Entries 86
Mean 1.708
Std Dev 3.289
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

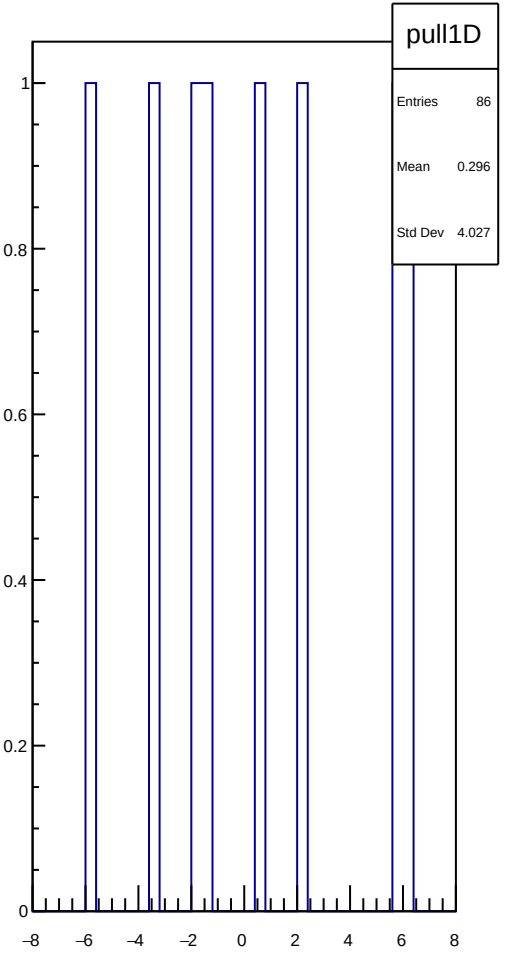

yield_bpm11Y_rms vs run
χ² / ndf 1.212e+05 / 85
p0 0.02992 ± 2.394e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

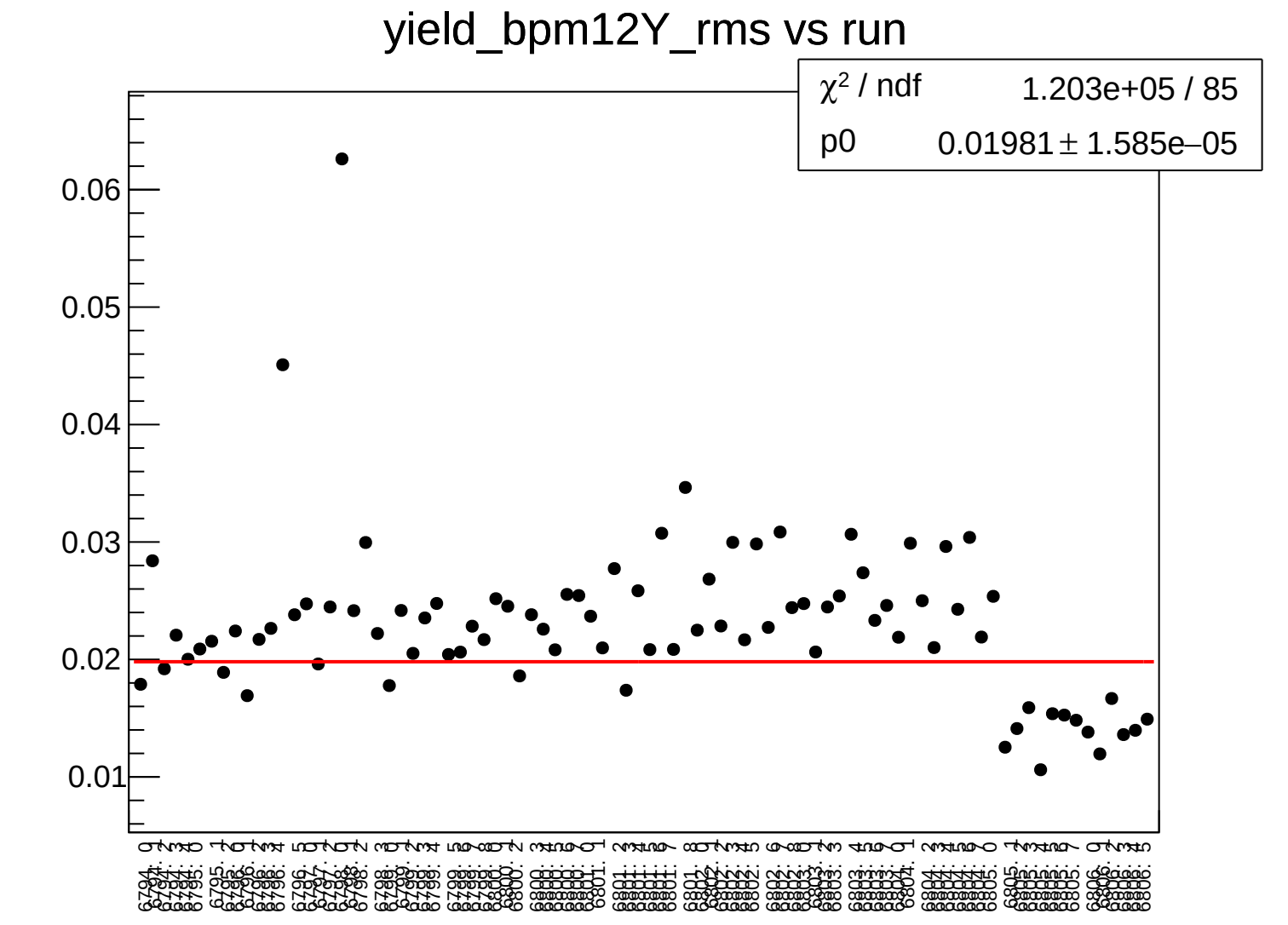

yield_bpm12X_mean vs run
χ² / ndf 9.89e+04 / 85
p0 0.2825 ± 3.675e−05
0.4
0.35
0.3
0.25
0.2
pull
Entries 86
Mean −6.486
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

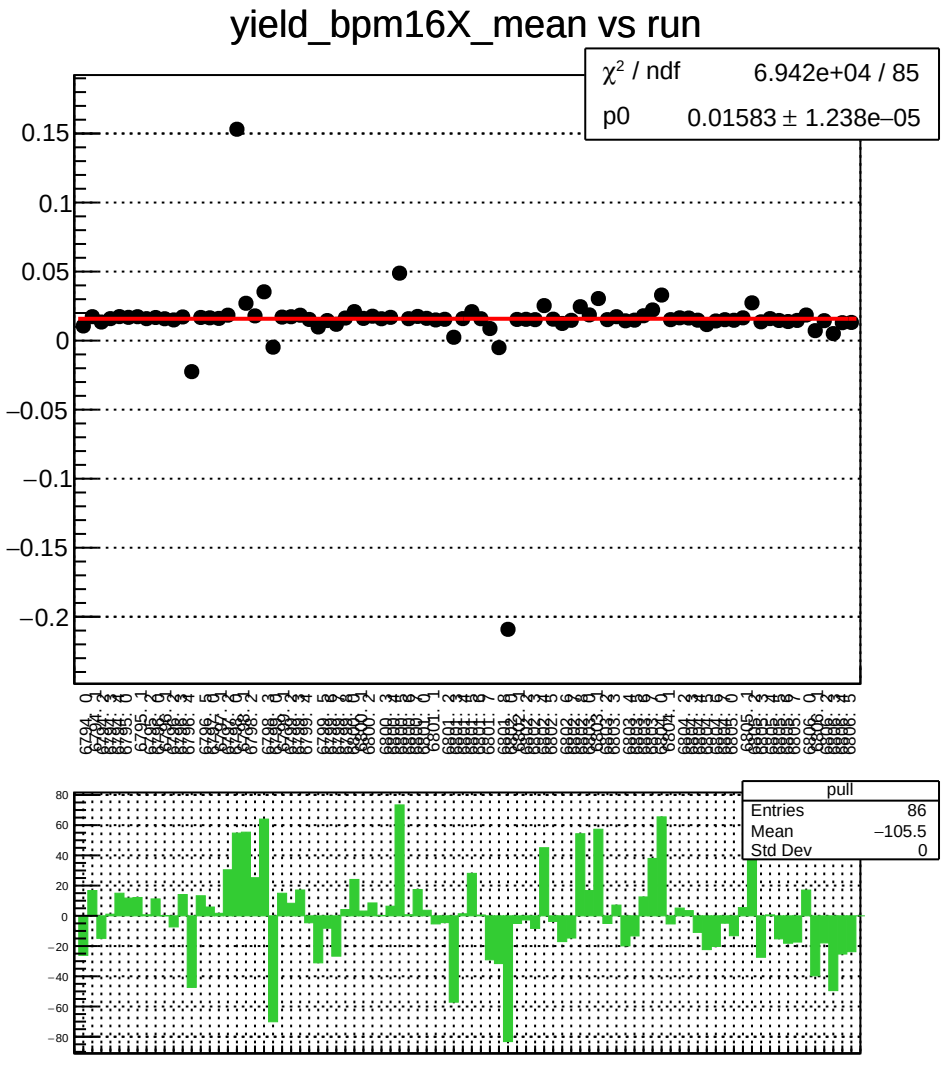

pull1D
Entries 86
Mean −2.233
Std Dev 4.961
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

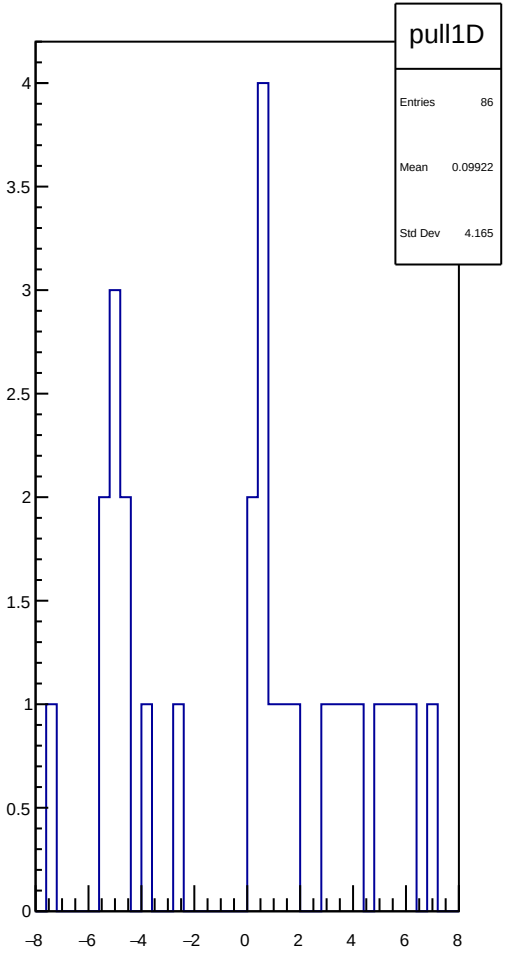

yield_bpm12X_rms vs run
χ² / ndf 1.748e+05 / 85
p0 0.03191 ± 2.599e−05
0.25
0.2
0.15
0.1
0.05

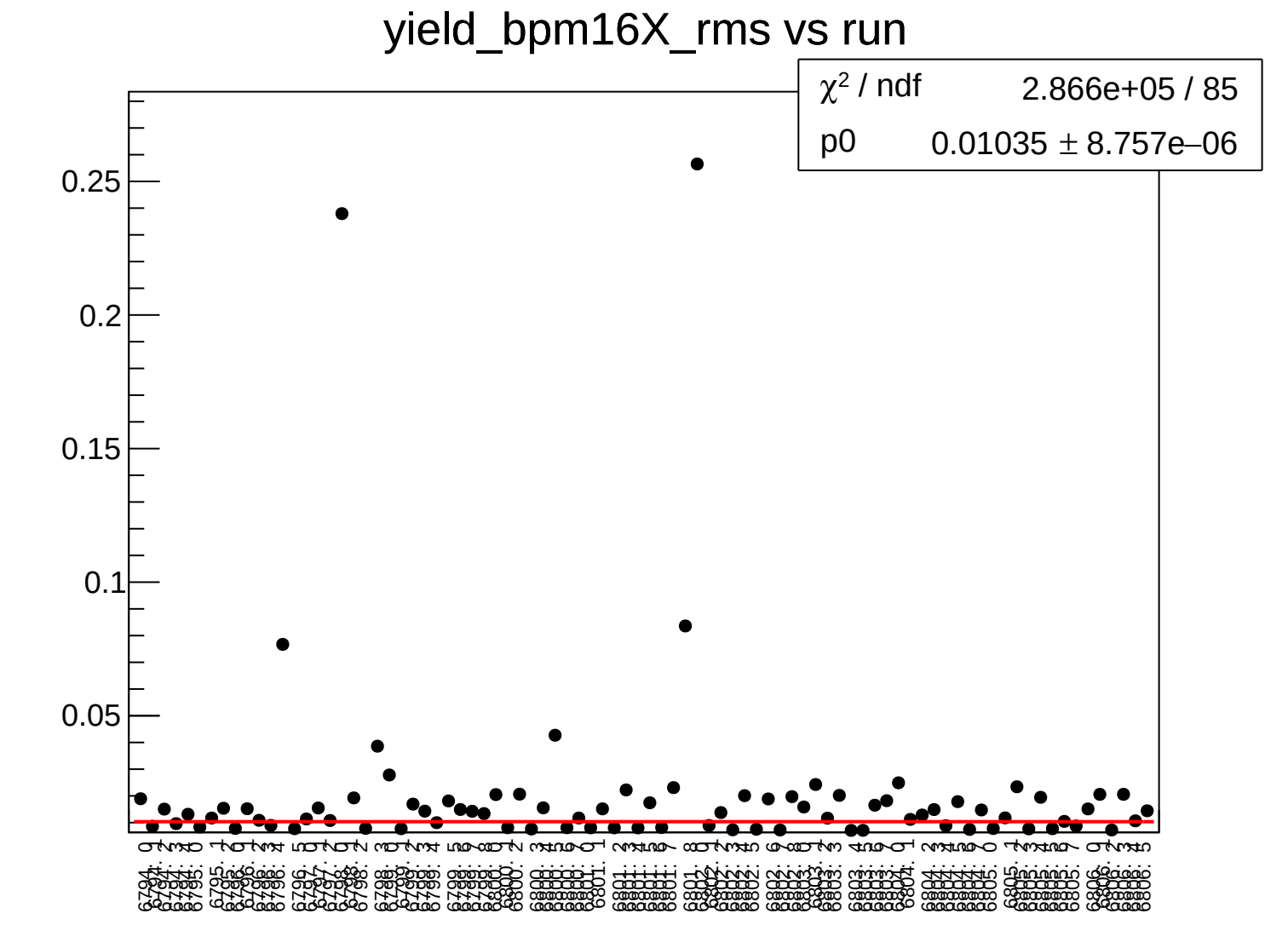

yield_bpm12Y_mean vs run
χ² / ndf 2.441e+06 / 85
p0 0.6767 ± 2.241e−05
0.76
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 86
Mean −74.92
Std Dev 0
300
200
100
0
−100
−200
−300

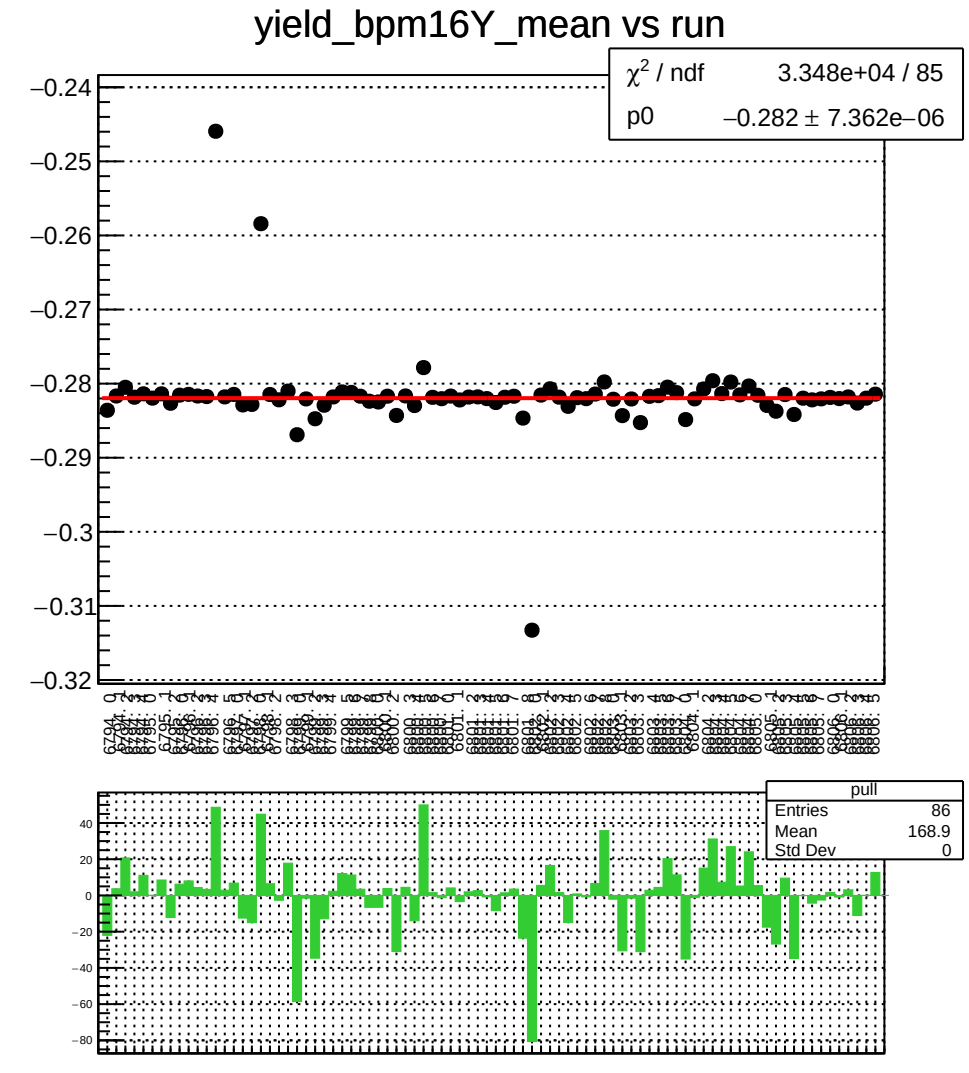

pull1D
Entries 86
Mean 0.296
Std Dev 4.027
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

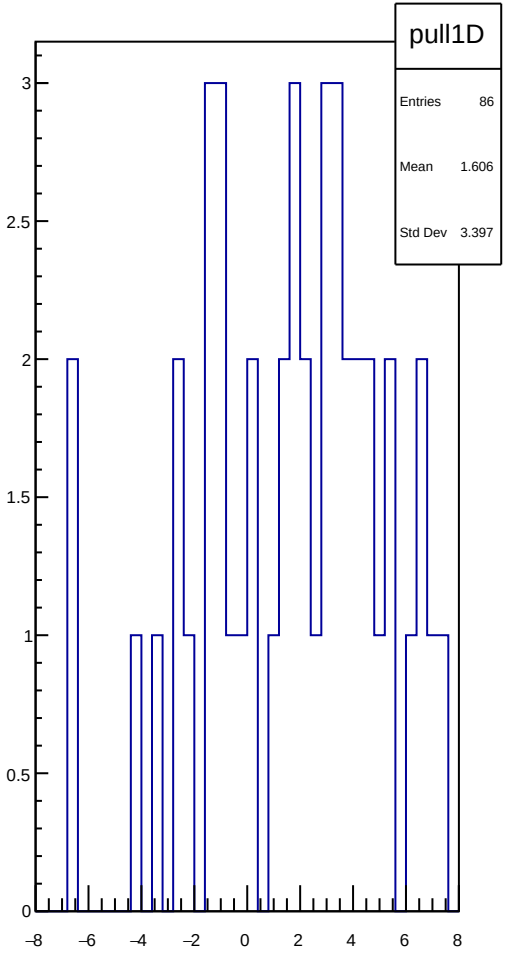

yield_bpm12Y_rms vs run
χ² / ndf 1.203e+05 / 85
p0 0.01981 ± 1.585e−05
0.06
0.05
0.04
0.03
0.02
0.01

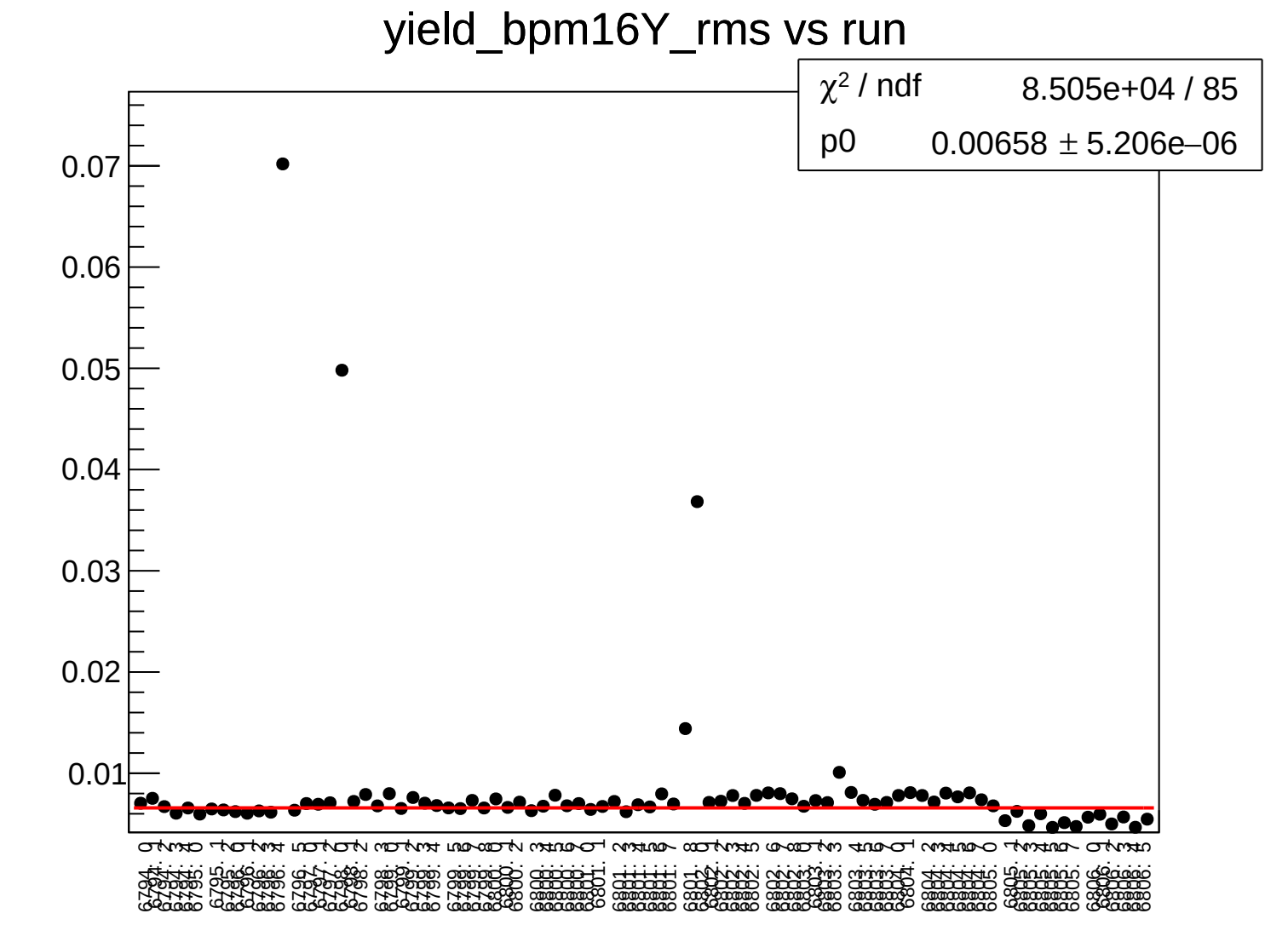

yield_bpm16X_mean vs run
χ² / ndf 6.942e+04 / 85
p0 0.01583 ± 1.238e–05
pull
Entries 86
Mean –105.5
Std Dev 0

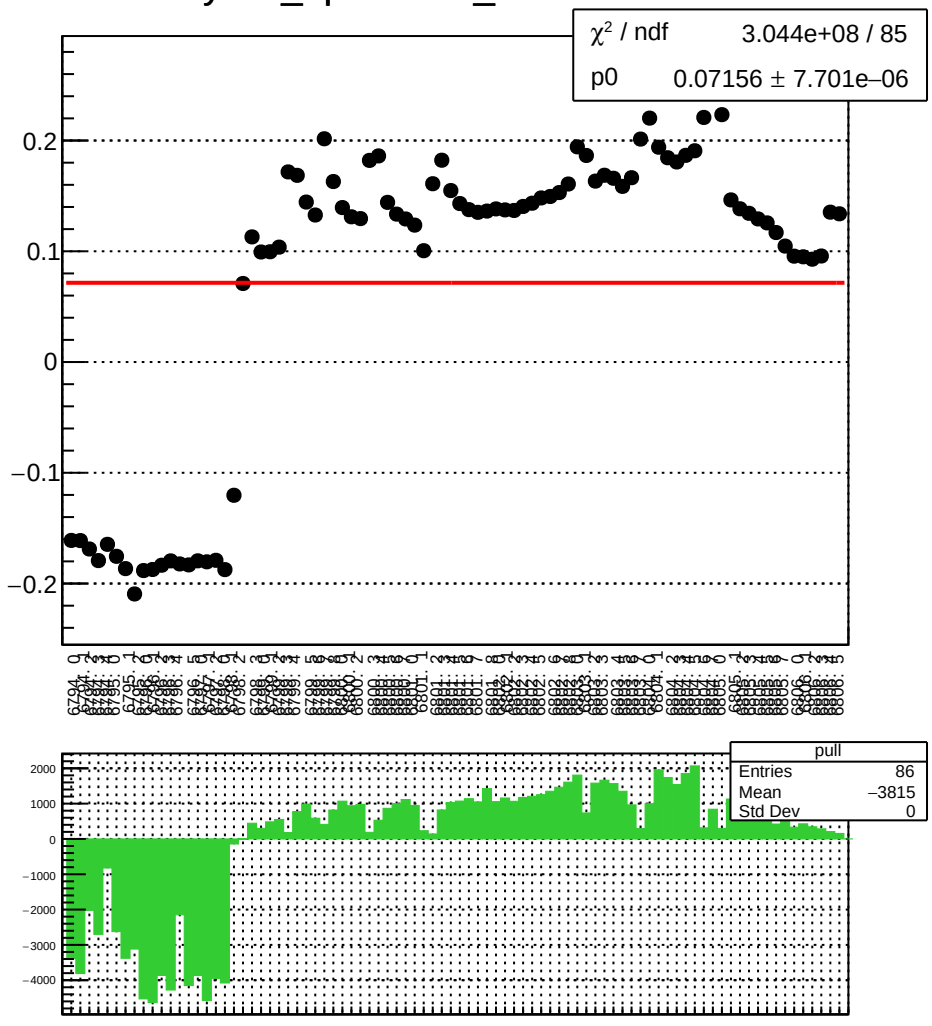

pull1D
Entries 86
Mean 0.09922
Std Dev 4.165

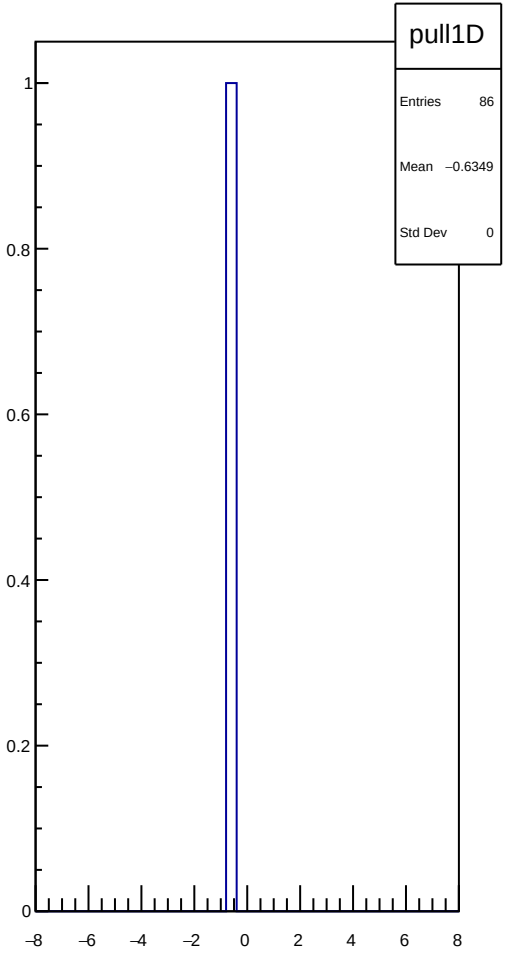

yield_bpm16X_rms vs run
χ² / ndf 2.866e+05 / 85
p0 0.01035 ± 8.757e–06
0.25
0.2
0.15
0.1
0.05

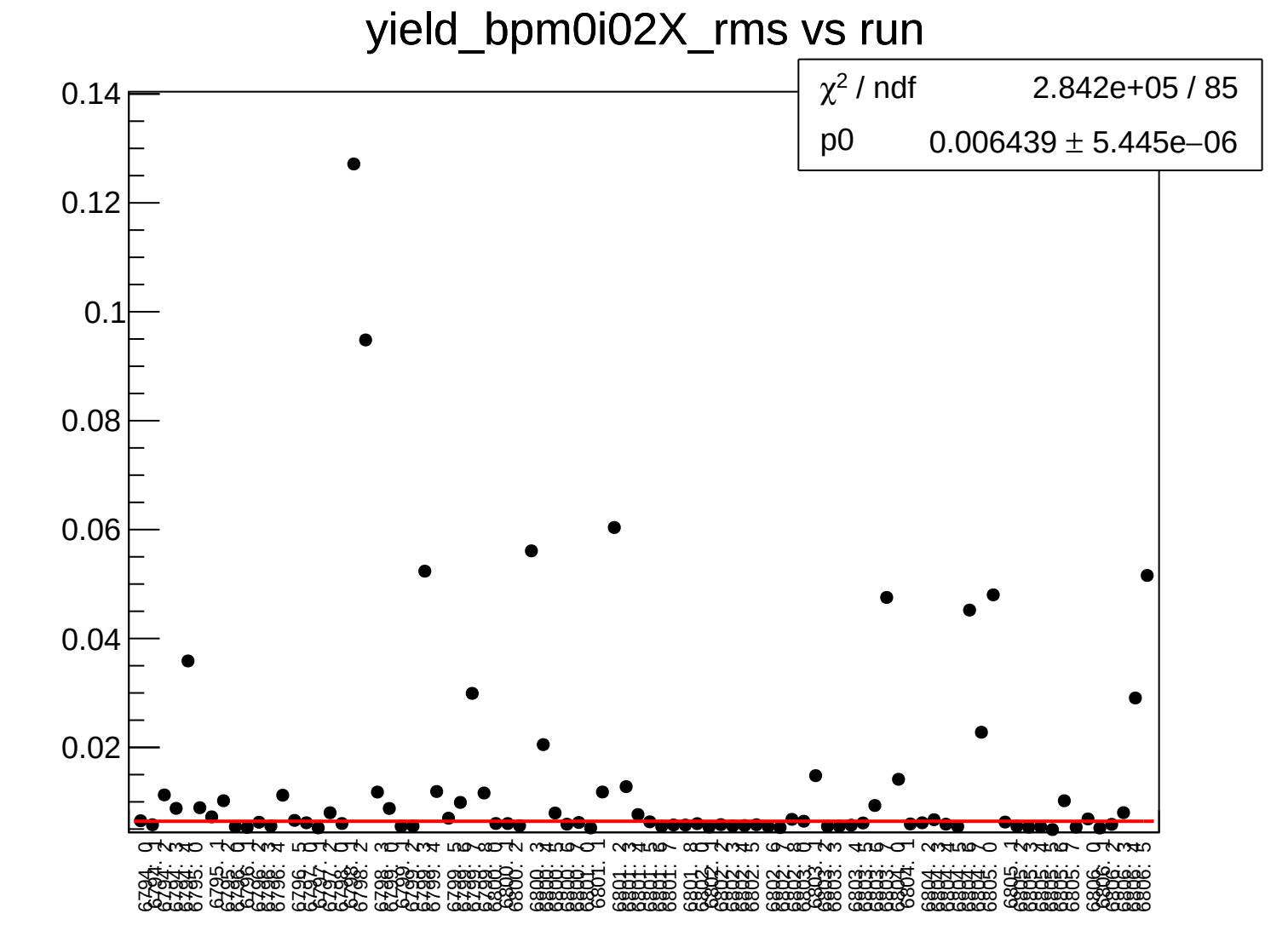

yield_bpm16Y_mean vs run
χ² / ndf 3.348e+04 / 85
p0 −0.282 ± 7.362e−06
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 86
Mean 168.9
Std Dev 0
40
20
0
−20
−40
−60
−80

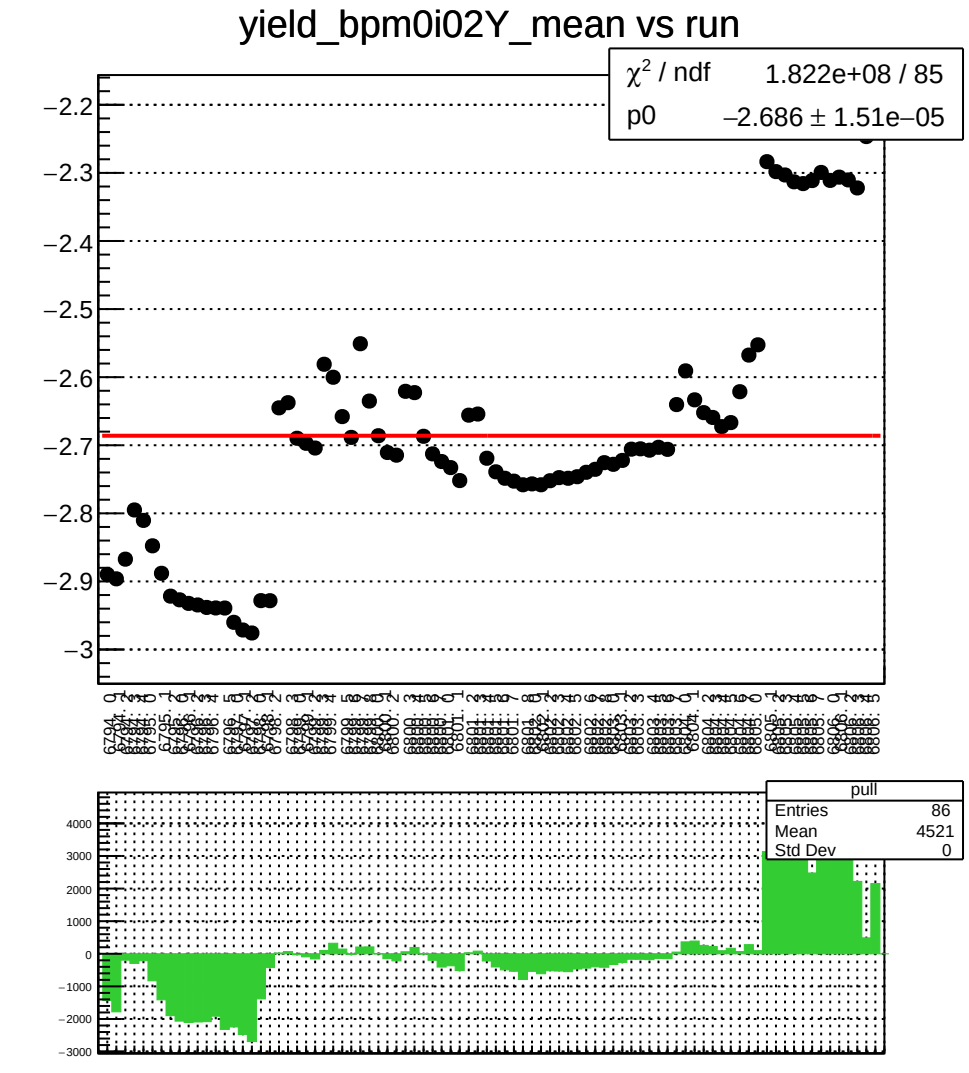

pull1D
Entries 86
Mean 1.606
Std Dev 3.397
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

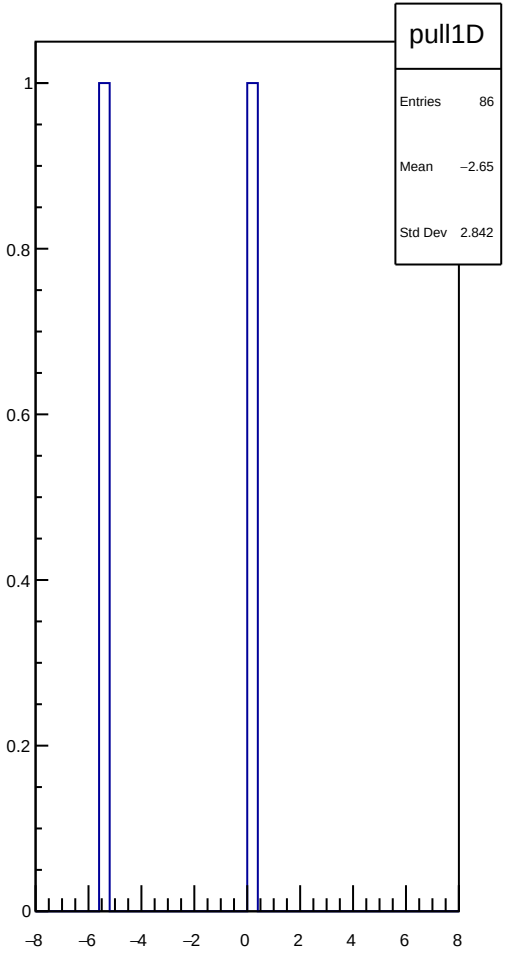

yield_bpm16Y_rms vs run
χ² / ndf 8.505e+04 / 85
p0 0.00658 ± 5.206e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

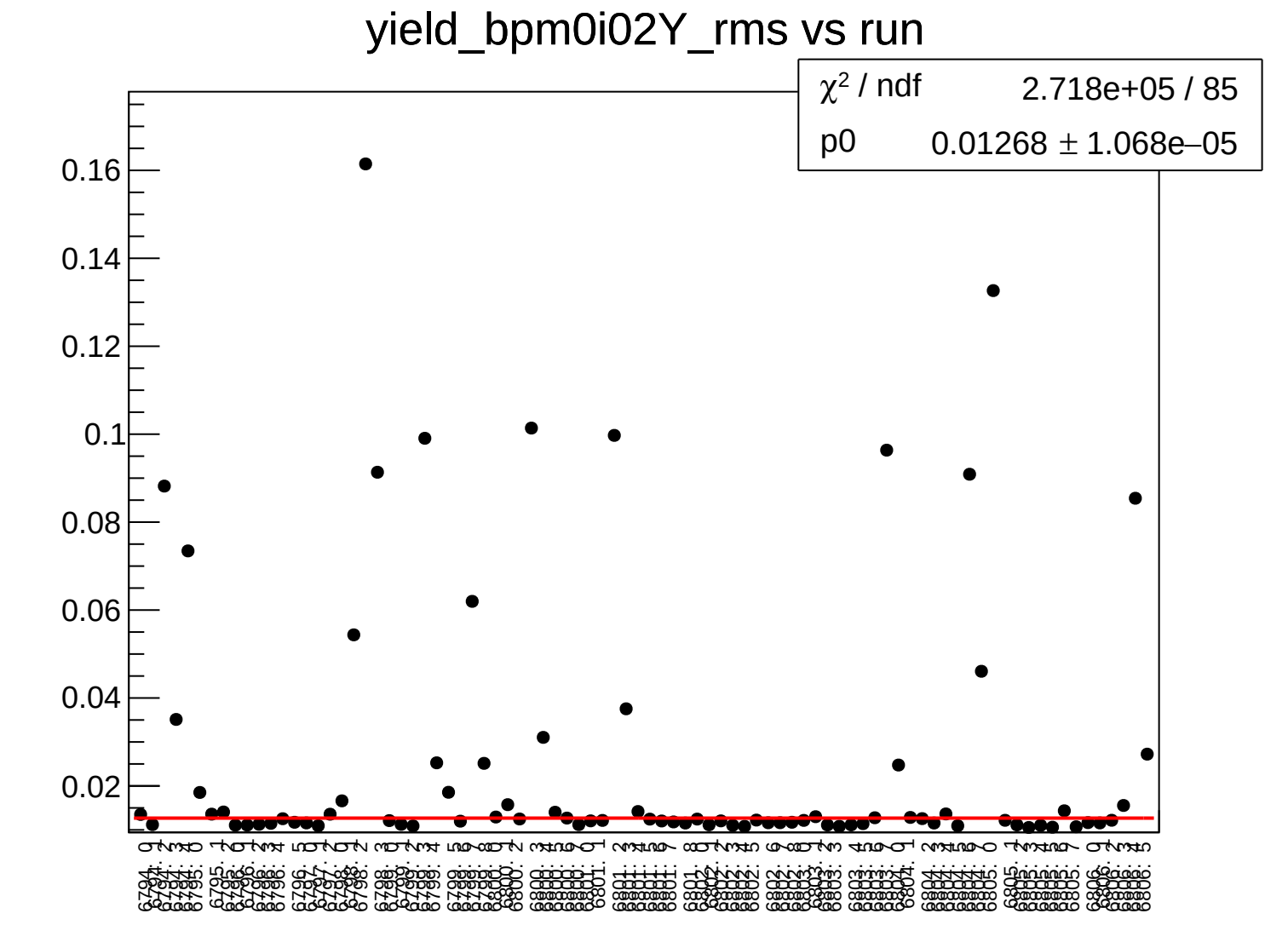

yield_bpm0i02X_mean vs run
χ² / ndf 3.044e+08 / 85
p0 0.07156 ± 7.701e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −3815
Std Dev 0
2000
1000
0
−1000
−2000
−3000
−4000

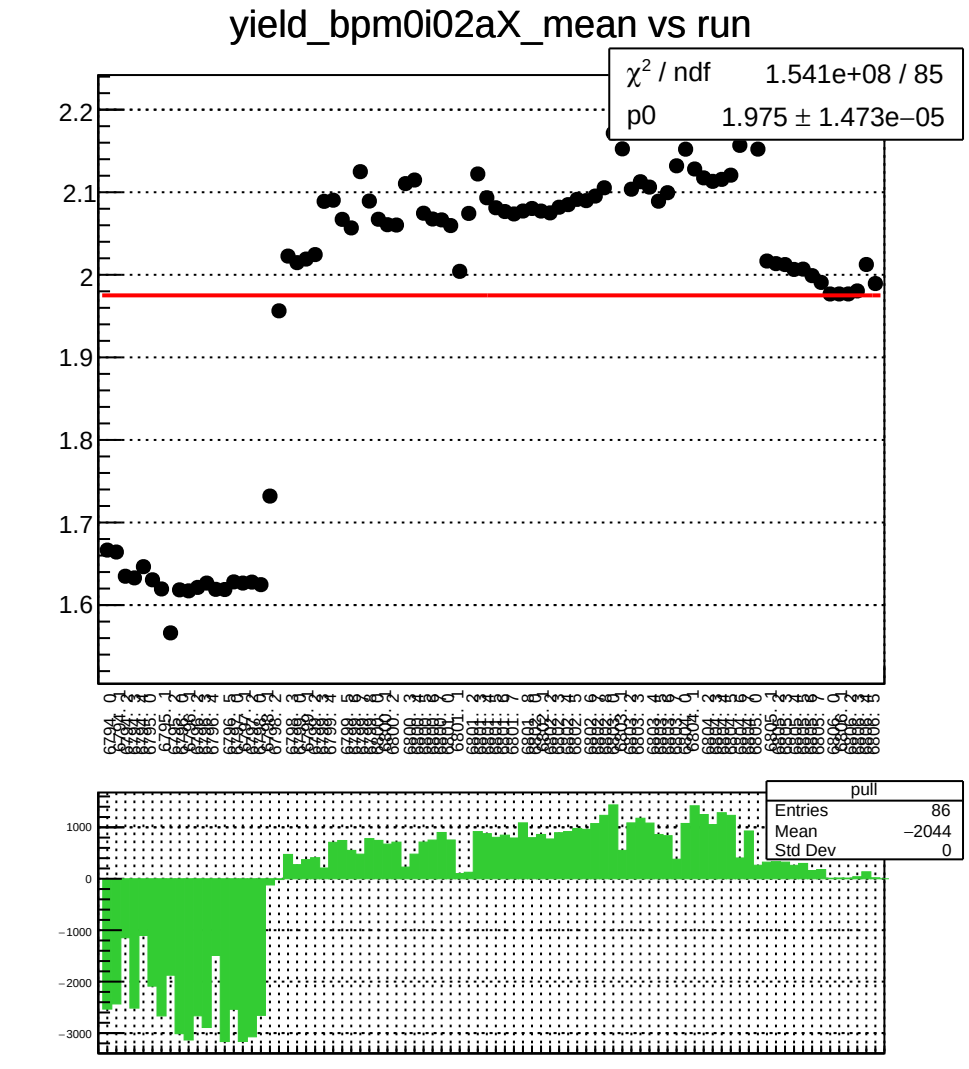

pull1D
Entries 86
Mean −0.6349
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

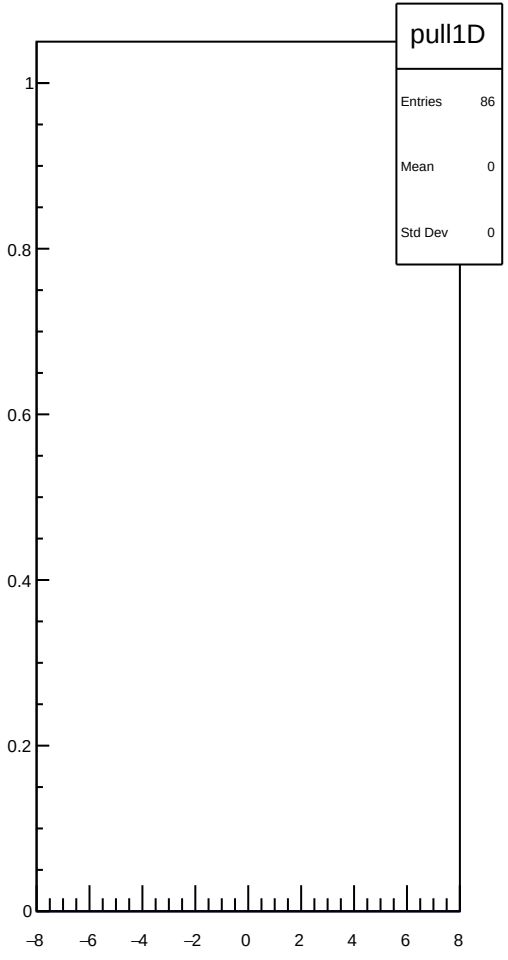

yield_bpm0i02X_rms vs run
χ² / ndf 2.842e+05 / 85
p0 0.006439 ± 5.445e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

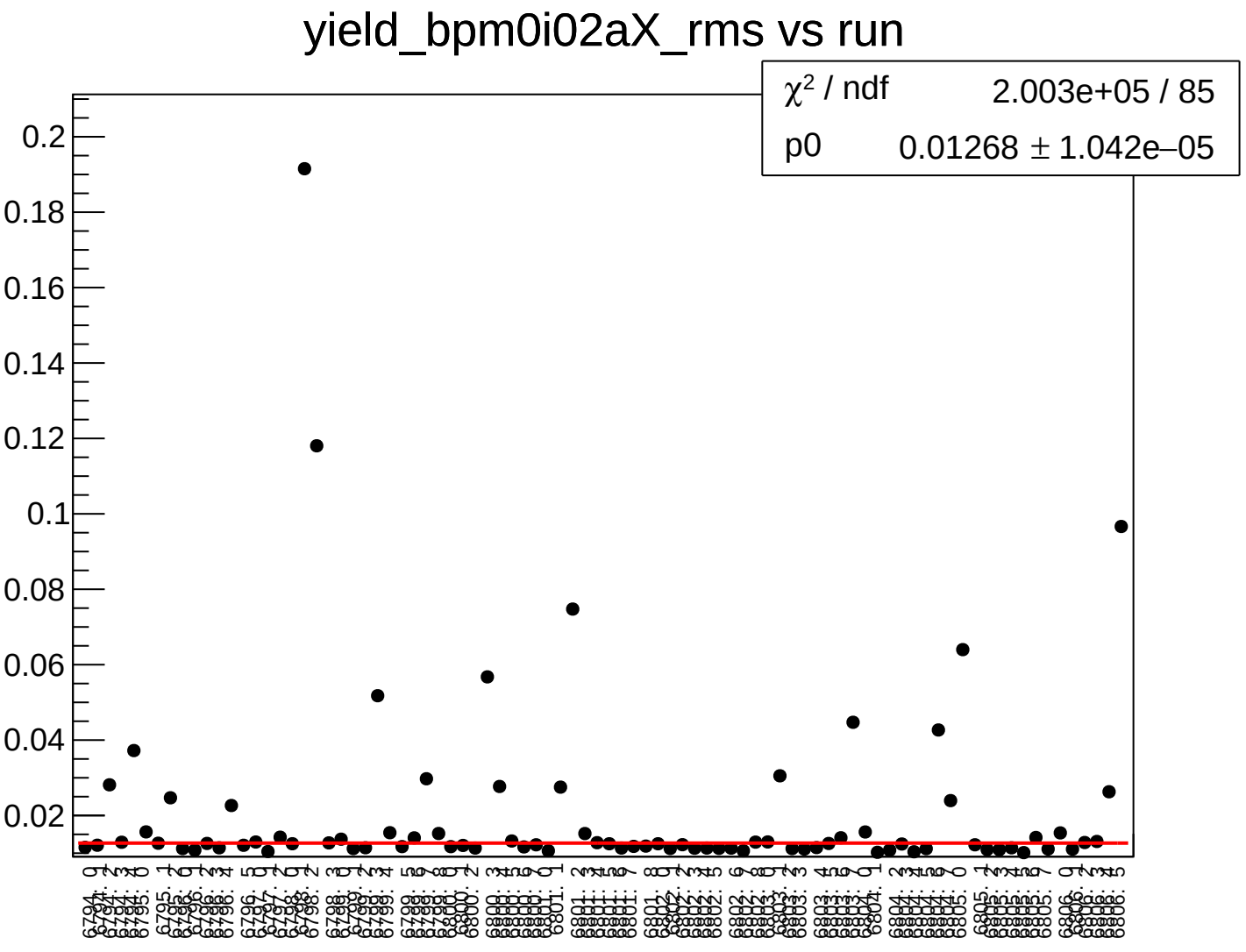

yield_bpm0i02Y_mean vs run
χ² / ndf 1.822e+08 / 85
p0 −2.686 ± 1.51e−05
pull
Entries 86
Mean 4521
Std Dev 0

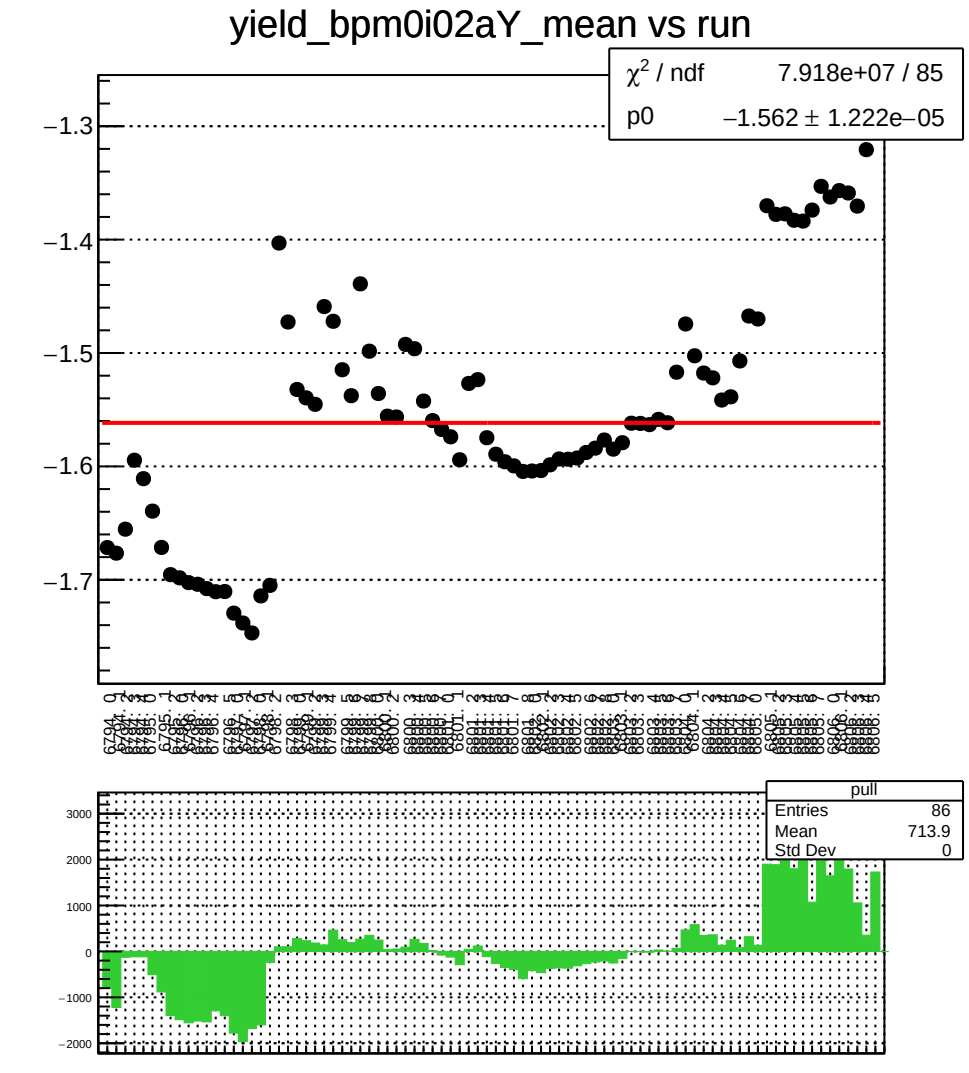

pull1D
Entries 86
Mean −2.65
Std Dev 2.842

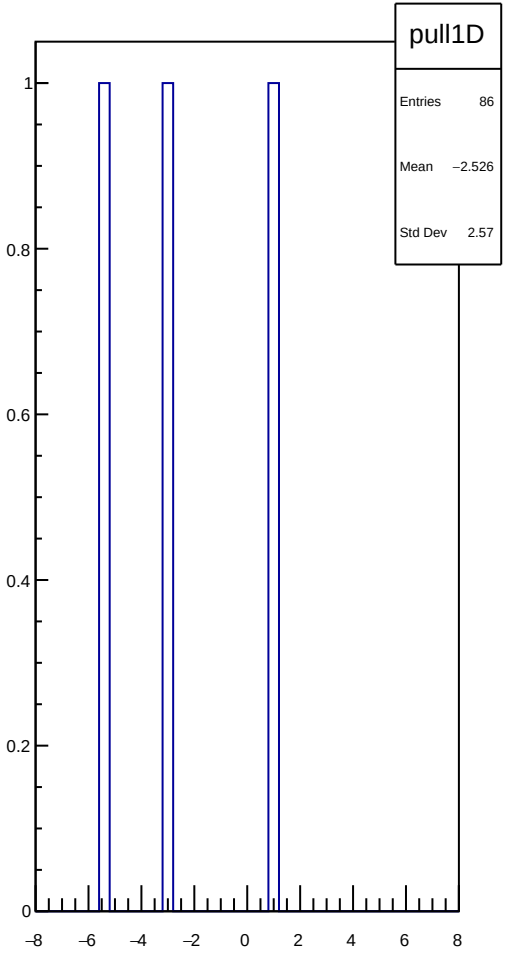

yield_bpm0i02Y_rms vs run
χ² / ndf 2.718e+05 / 85
p0 0.01268 ± 1.068e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

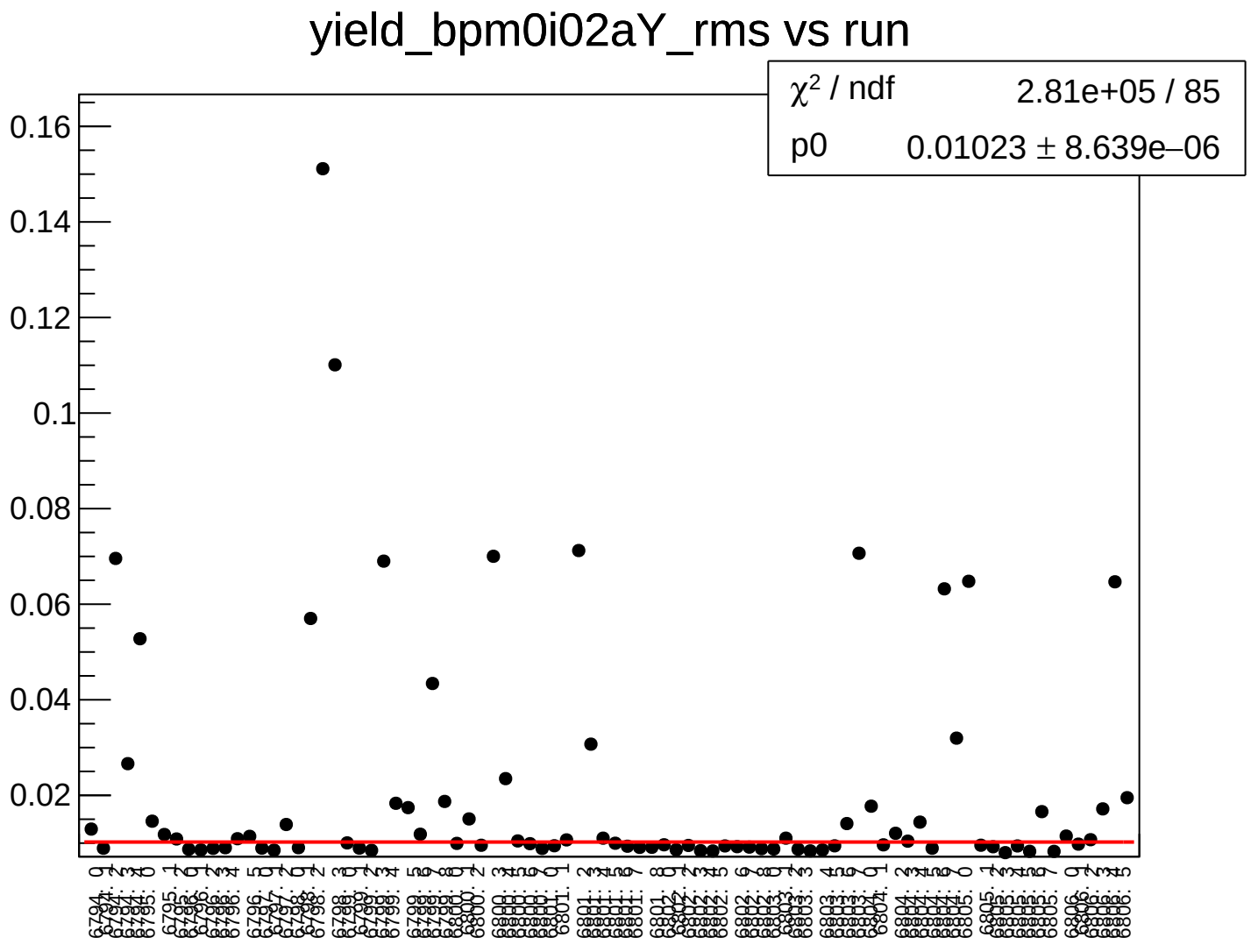

yield_bpm0i02aX_mean vs run
χ² / ndf 1.541e+08 / 85
p0 1.975 ± 1.473e−05
2.2
2.1
2
1.9
1.8
1.7
1.6
pull
Entries 86
Mean −2044
Std Dev 0
1000
0
−1000
−2000
−3000

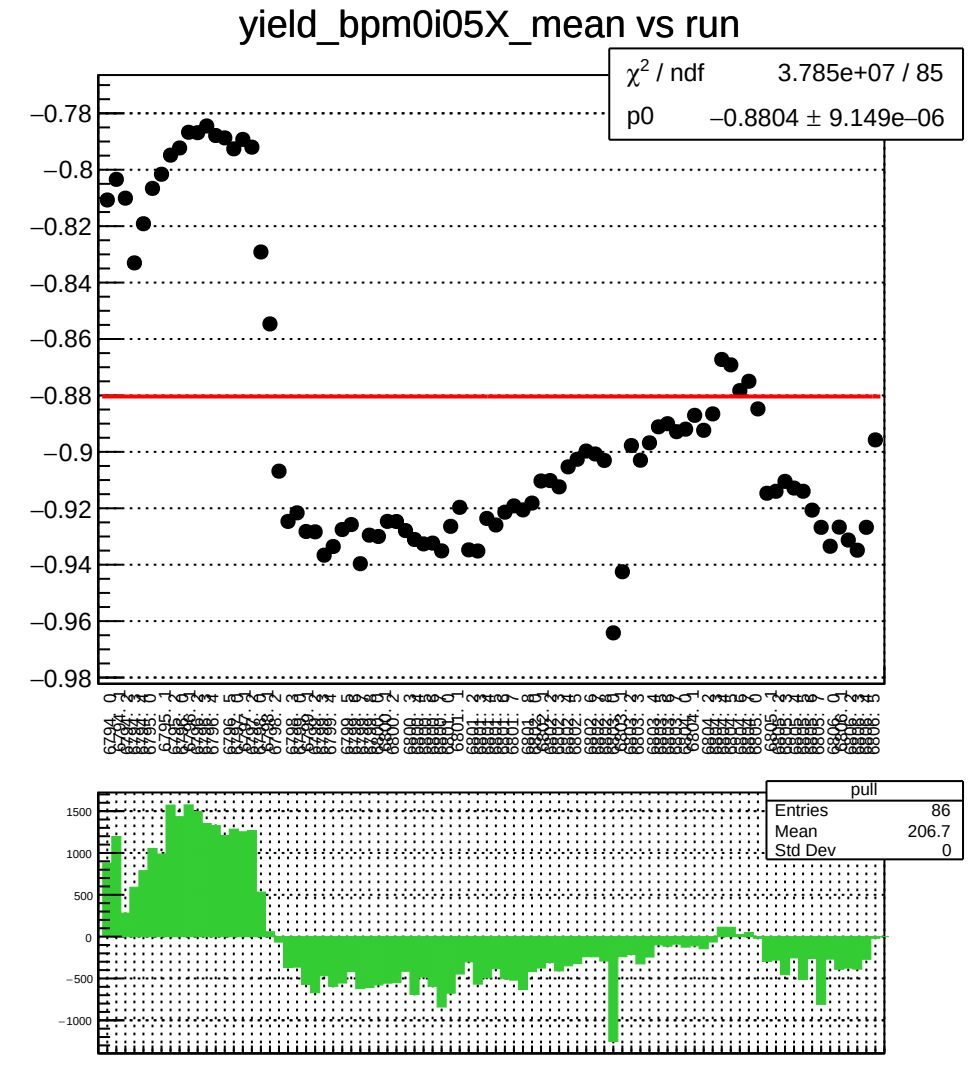

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

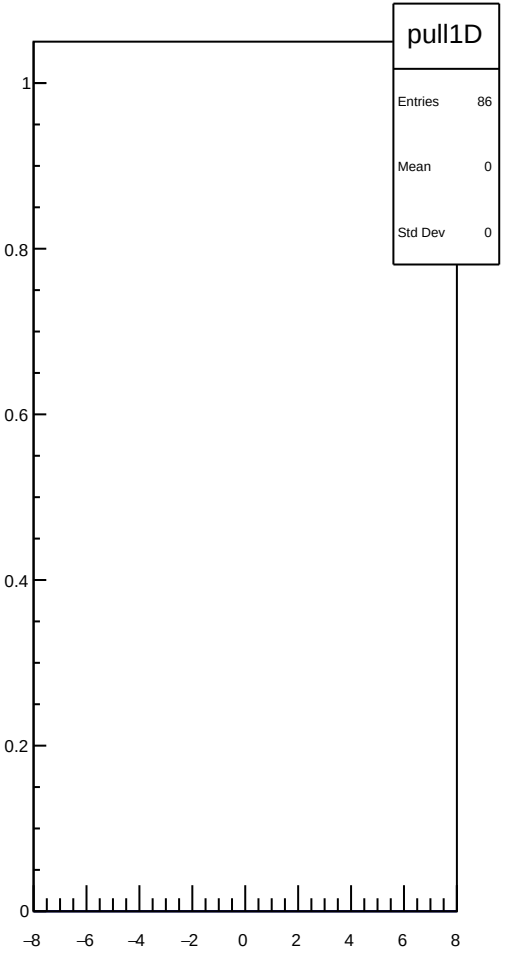

yield_bpm0i02aX_rms vs run
χ² / ndf 2.003e+05 / 85
p0 0.01268 ± 1.042e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

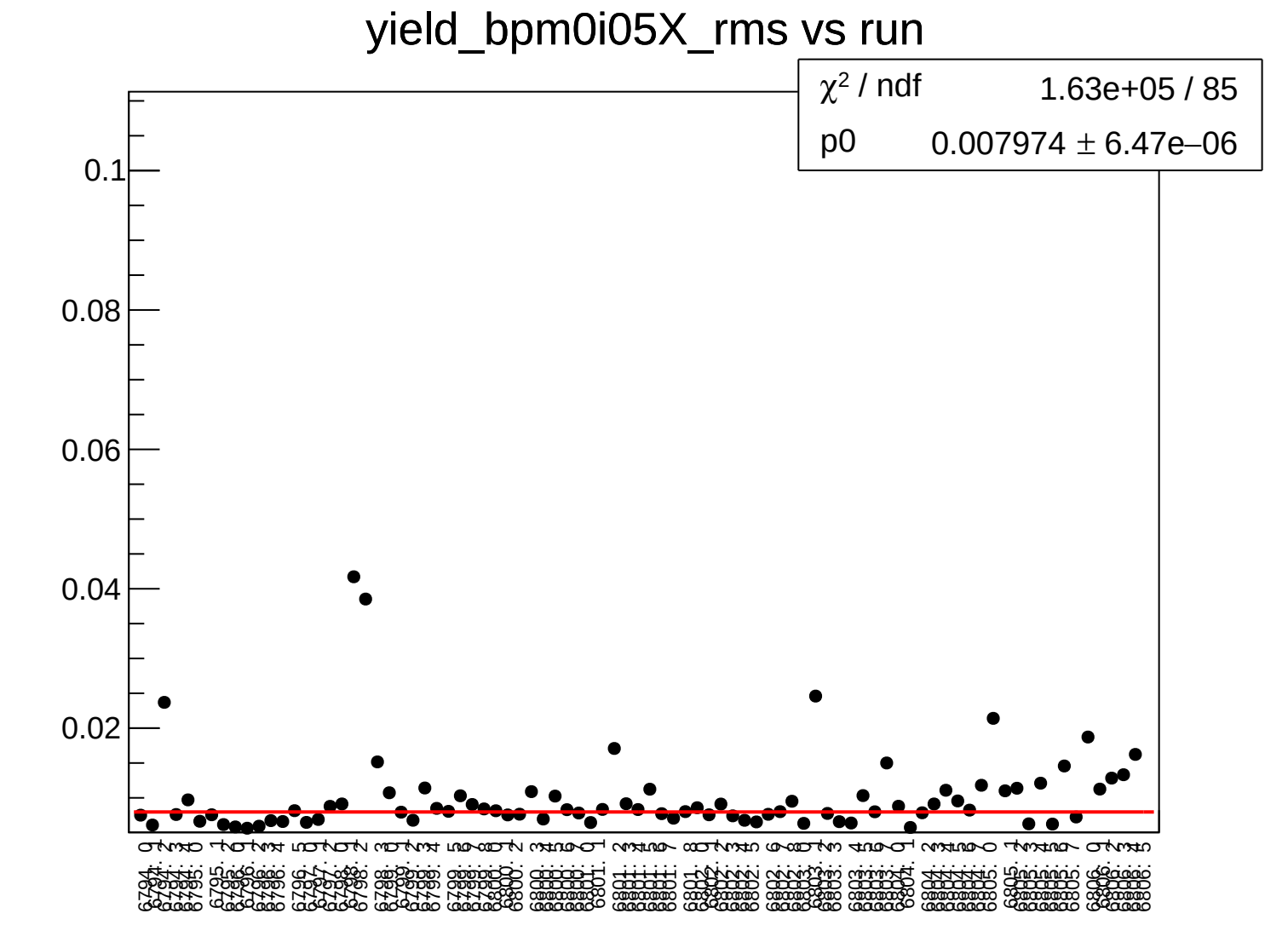

yield_bpm0i02aY_mean vs run
χ² / ndf 7.918e+07 / 85
p0 −1.562 ± 1.222e−05
−1.3
−1.4
−1.5
−1.6
−1.7
pull
Entries 86
Mean 713.9
Std Dev 0
3000
2000
1000
0
−1000
−2000

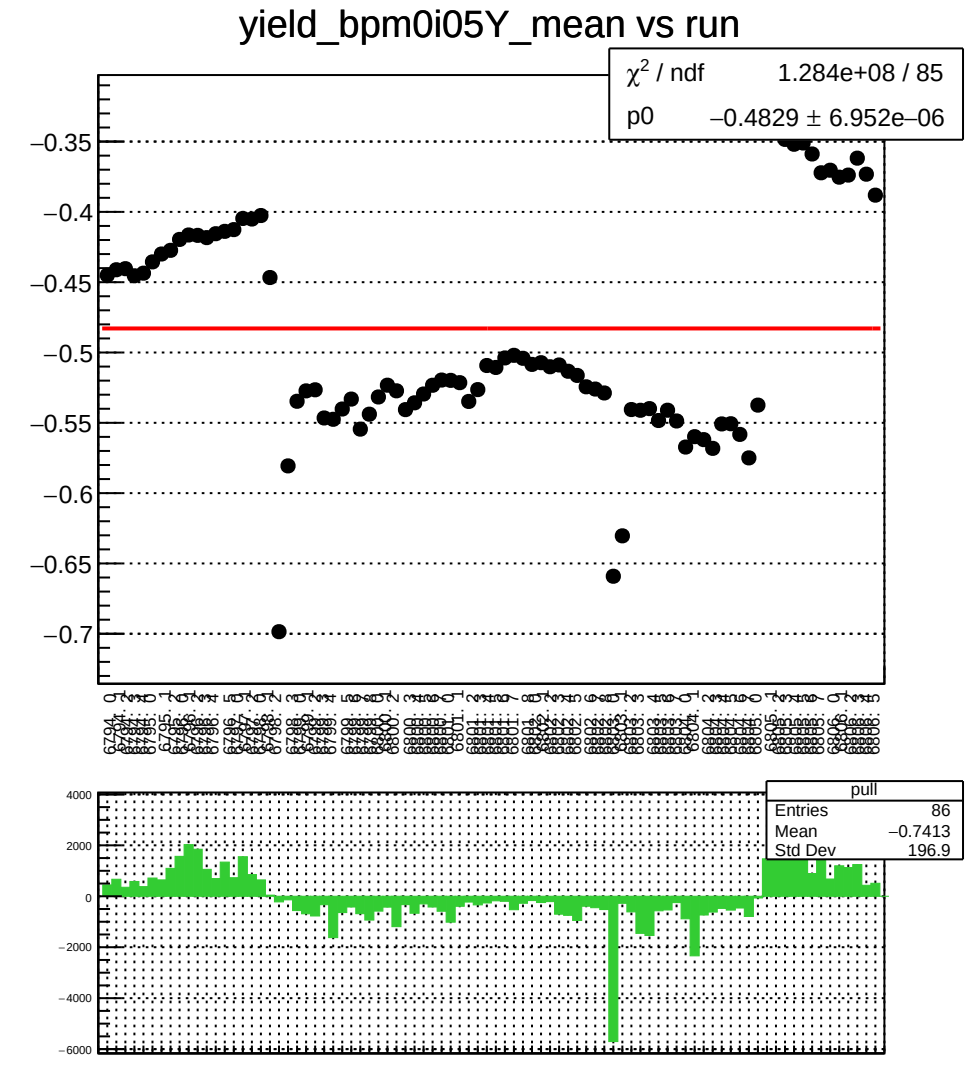

pull1D
Entries 86
Mean −2.526
Std Dev 2.57
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

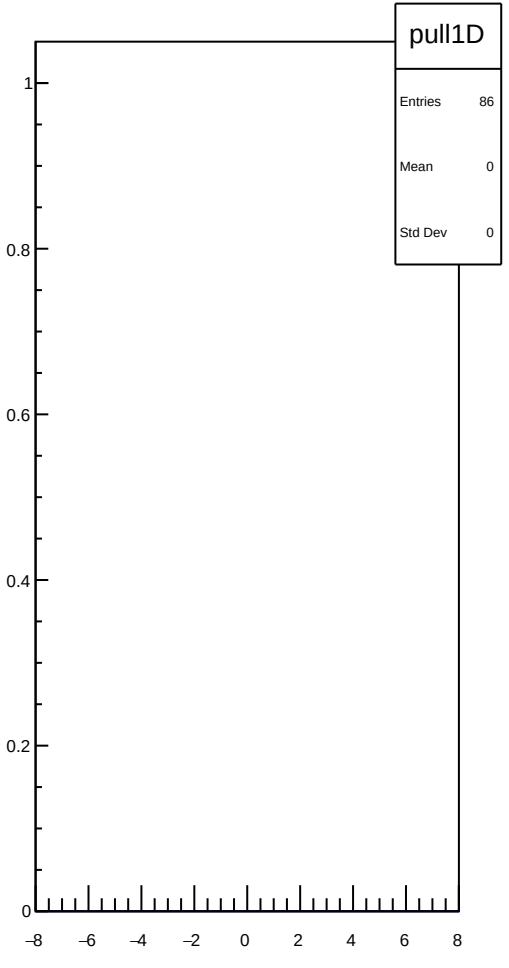

yield_bpm0i02aY_rms vs run
χ² / ndf 2.81e+05 / 85
p0 0.01023 ± 8.639e–06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

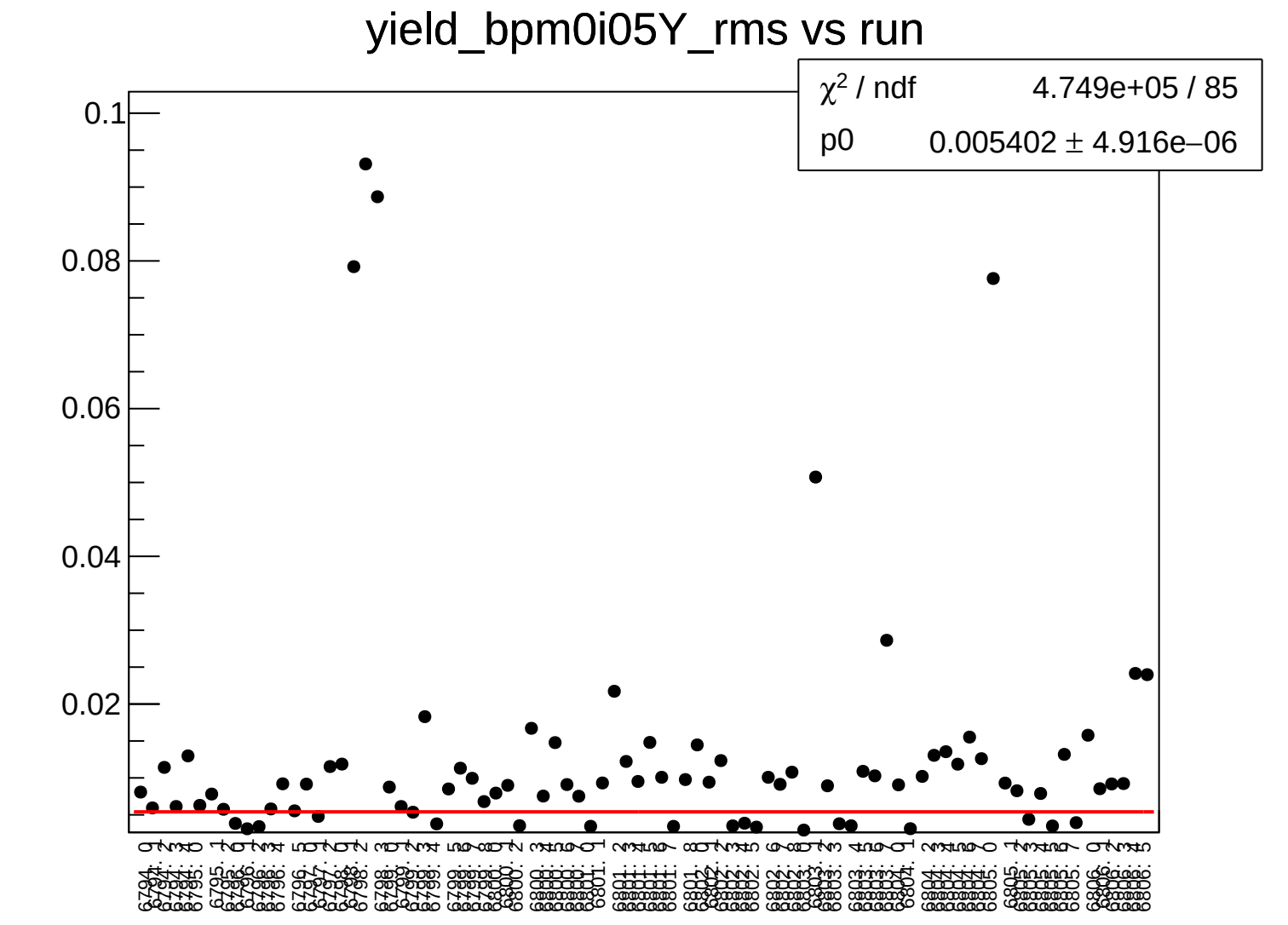

yield_bpm0i05X_mean vs run
χ² / ndf 3.785e+07 / 85
p0 −0.8804 ± 9.149e−06
pull
Entries 86
Mean 206.7
Std Dev 0

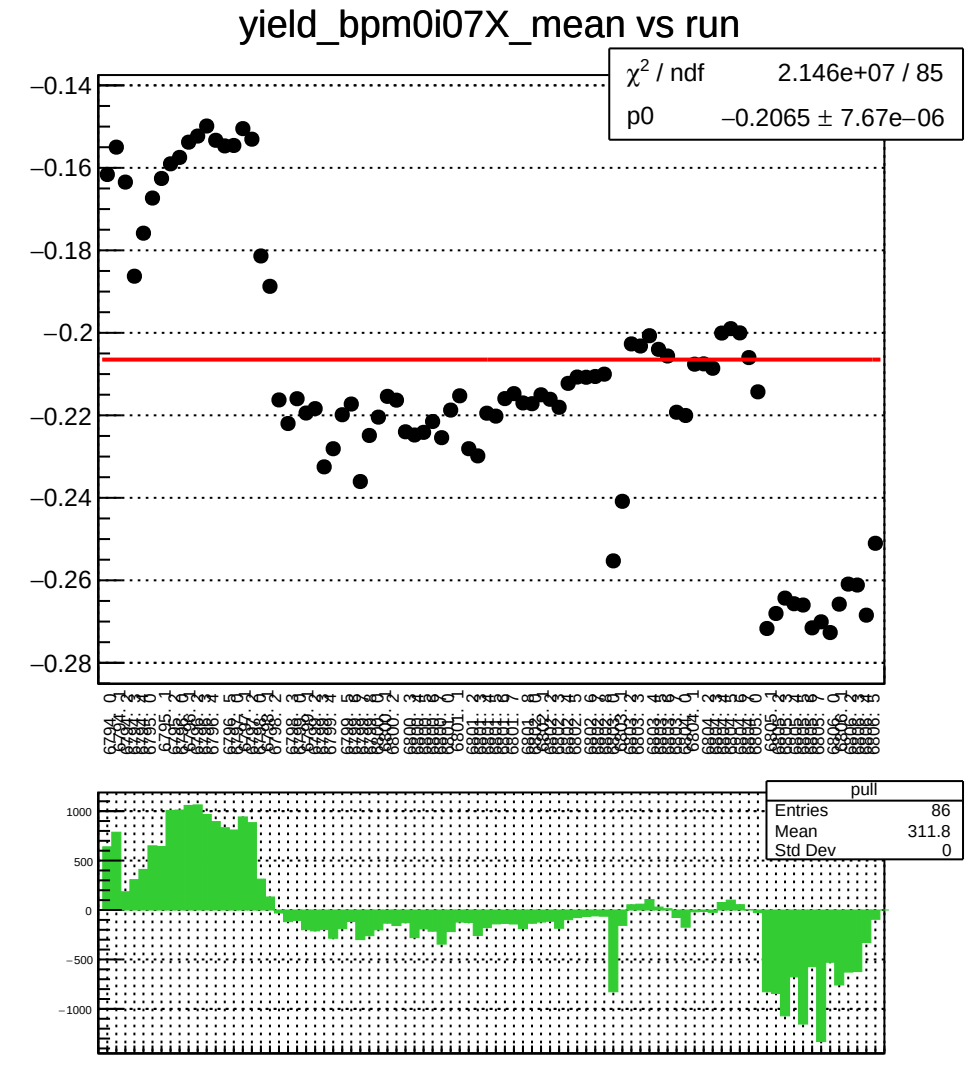

pull1D
Entries 86
Mean 0
Std Dev 0

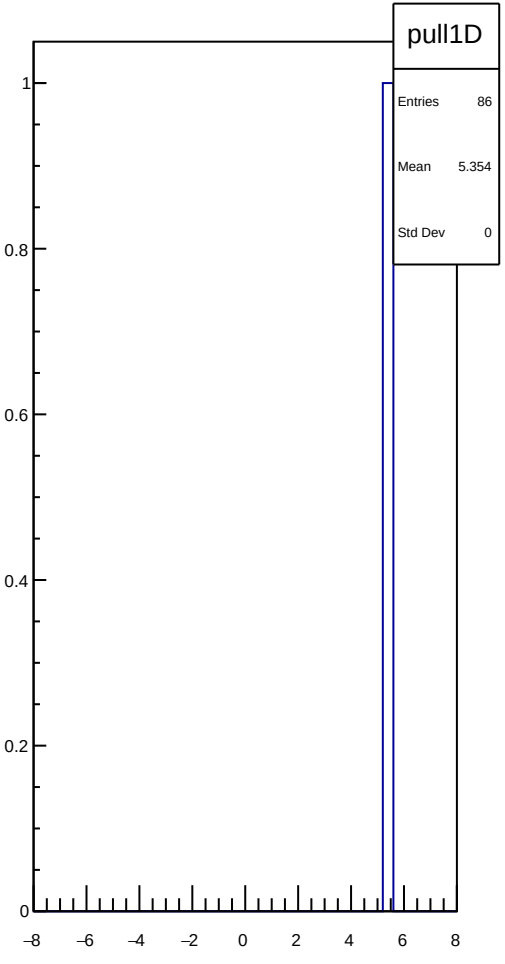

yield_bpm0i05X_rms vs run
χ² / ndf 1.63e+05 / 85
p0 0.007974 ± 6.47e–06
0.1
0.08
0.06
0.04
0.02


yield_bpm0i05Y_mean vs run
χ² / ndf 1.284e+08 / 85
p0 −0.4829 ± 6.952e−06
−0.35
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 86
Mean −0.7413
Std Dev 196.9
4000
2000
0
−2000
−4000
−6000

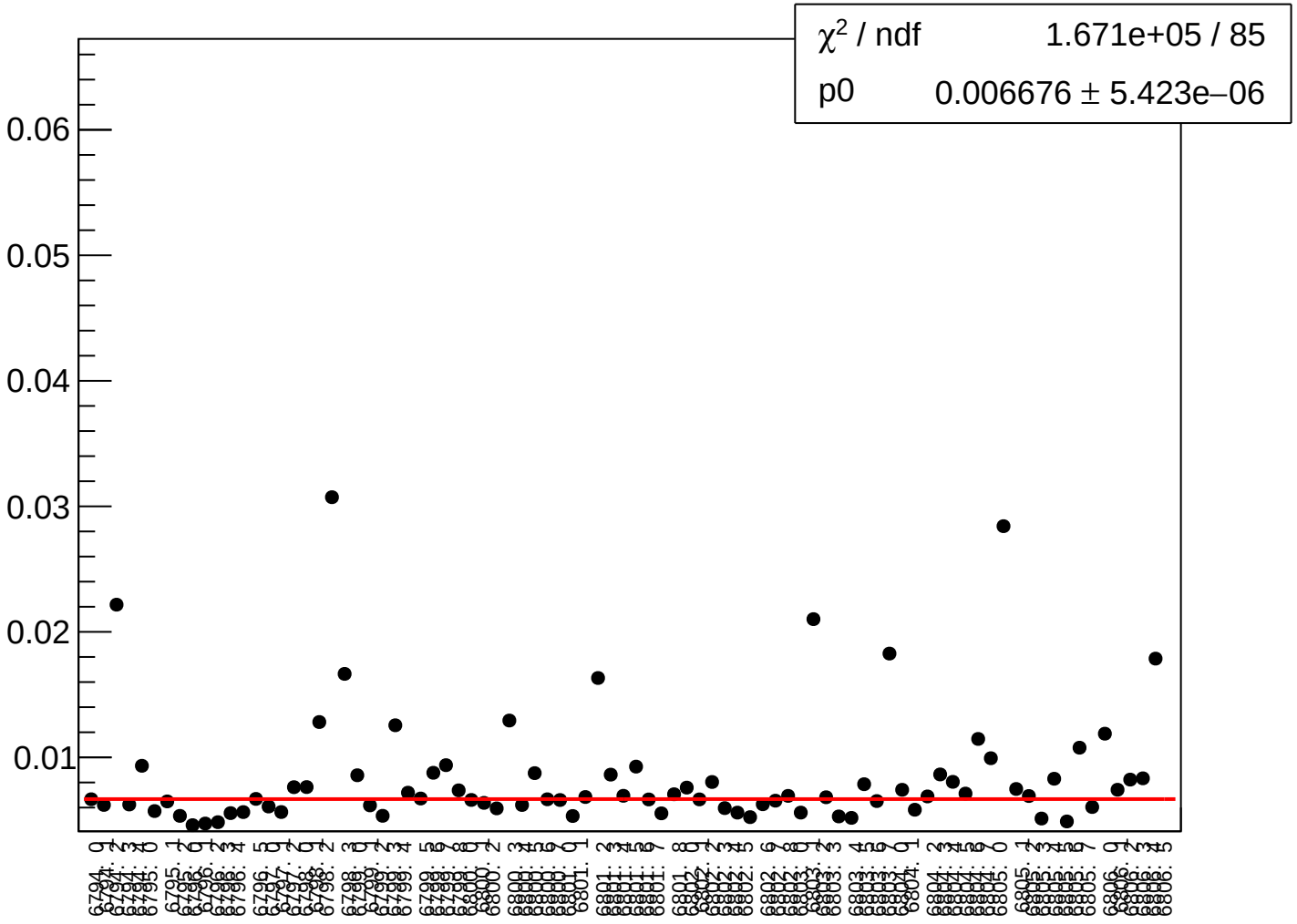

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

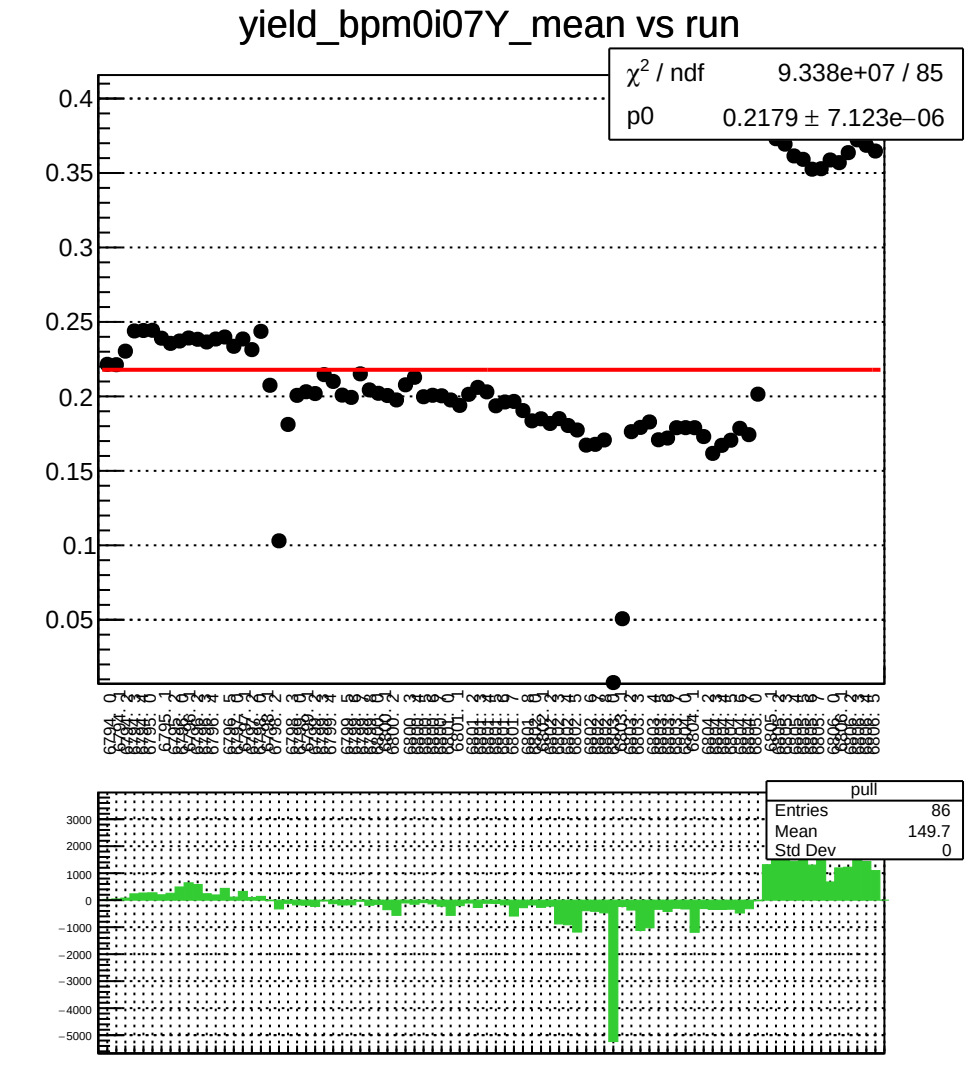

yield_bpm0i05Y_rms vs run
χ² / ndf 4.749e+05 / 85
p0 0.005402 ± 4.916e−06
0.1
0.08
0.06
0.04
0.02

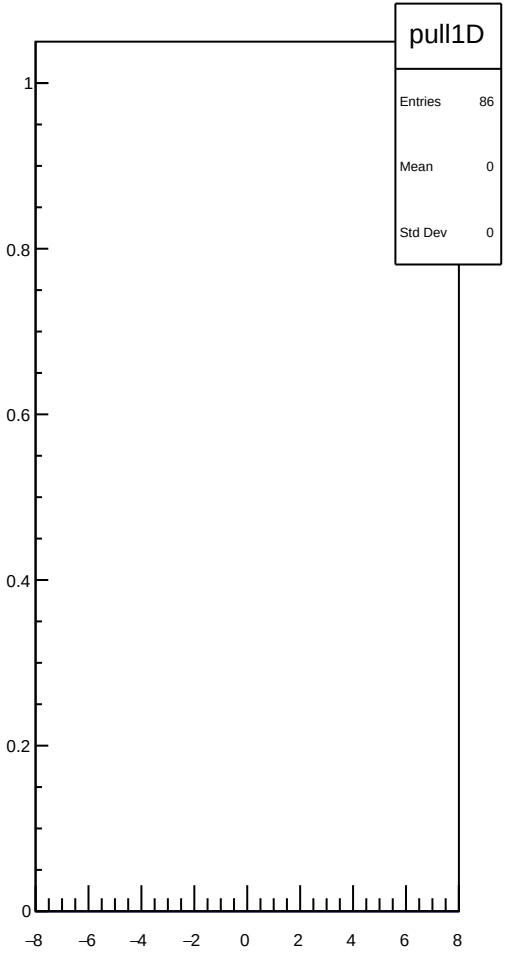

yield_bpm0i07X_mean vs run
χ² / ndf 2.146e+07 / 85
p0 −0.2065 ± 7.67e−06
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 86
Mean 311.8
Std Dev 0
1000
500
0
−500
−1000

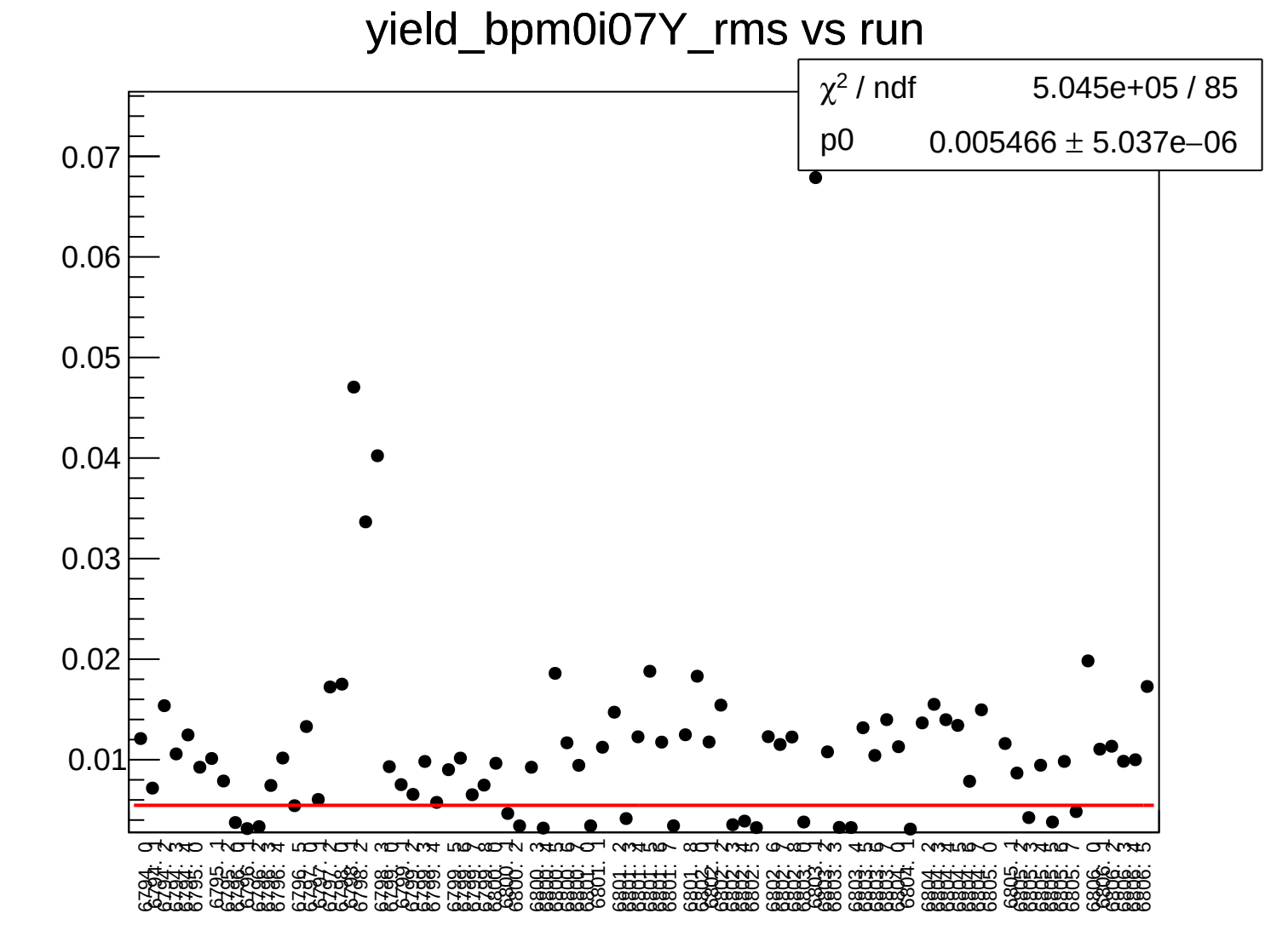

pull1D
Entries 86
Mean 5.354
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

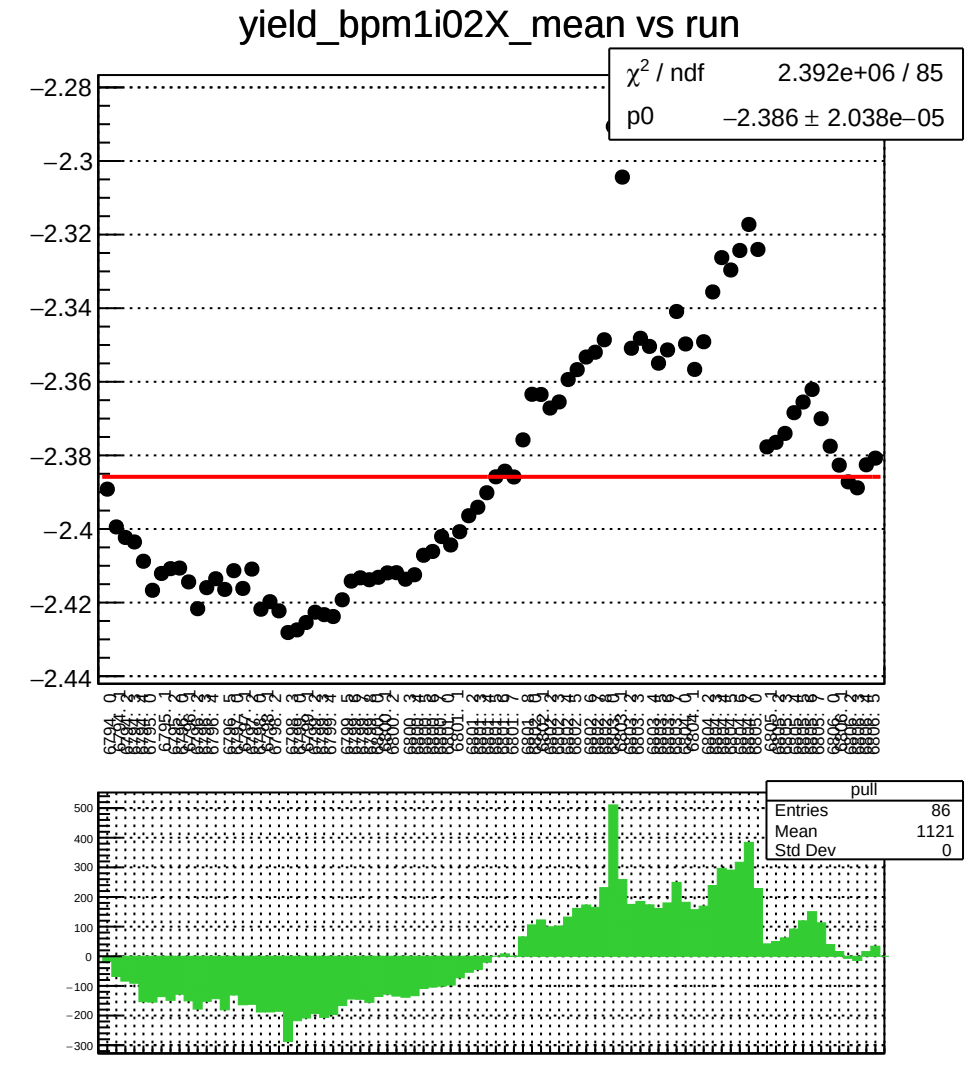
yield_bpm0i07X_rms vs run

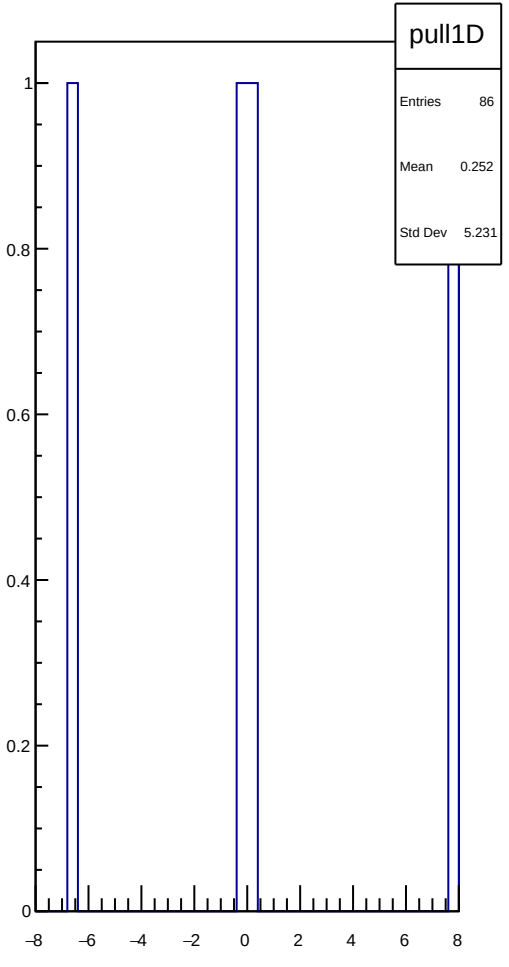


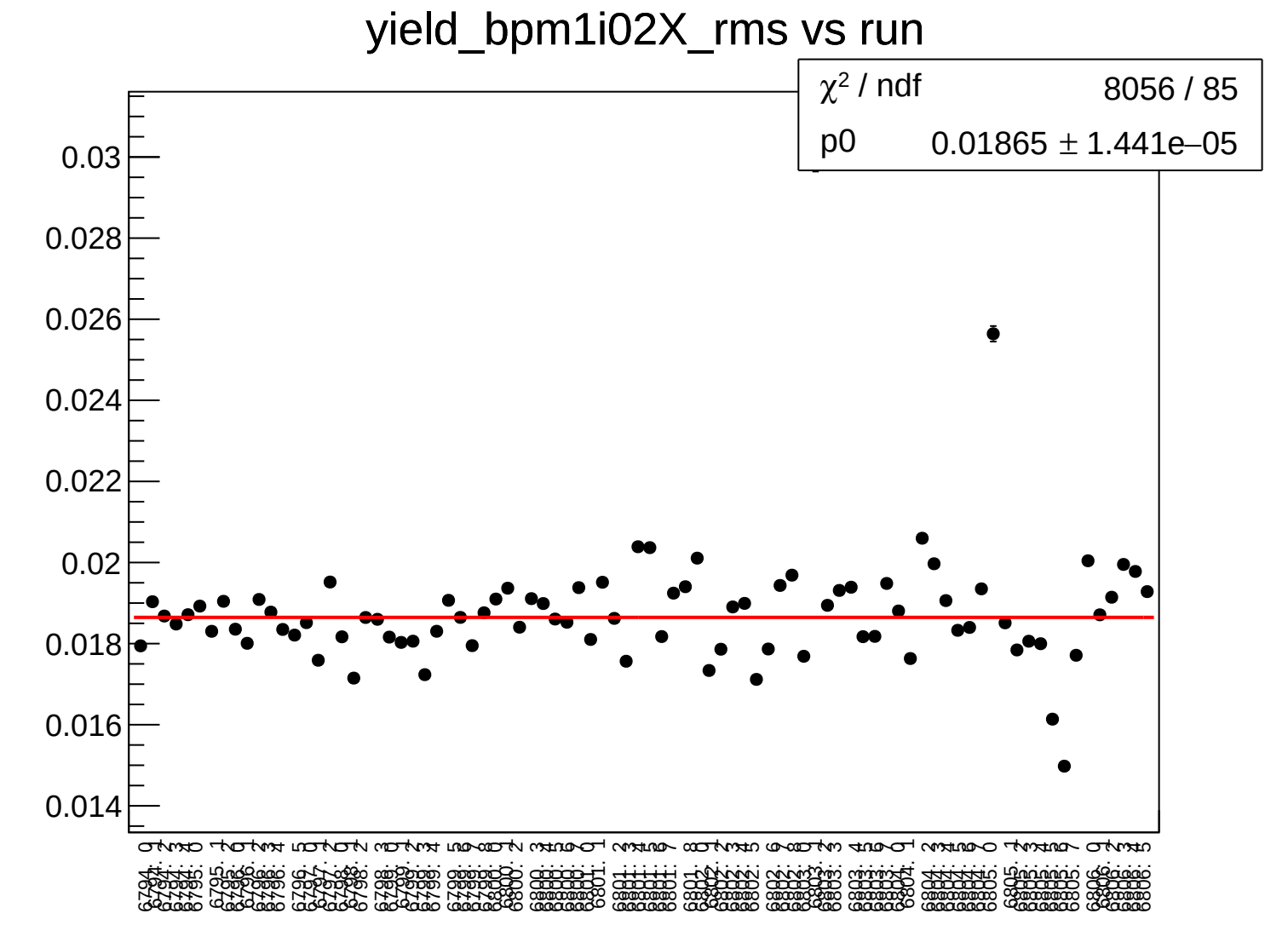

yield_bpm0i07Y_mean vs run
χ² / ndf 9.338e+07 / 85
p0 0.2179 ± 7.123e−06
pull
Entries 86
Mean 149.7
Std Dev 0

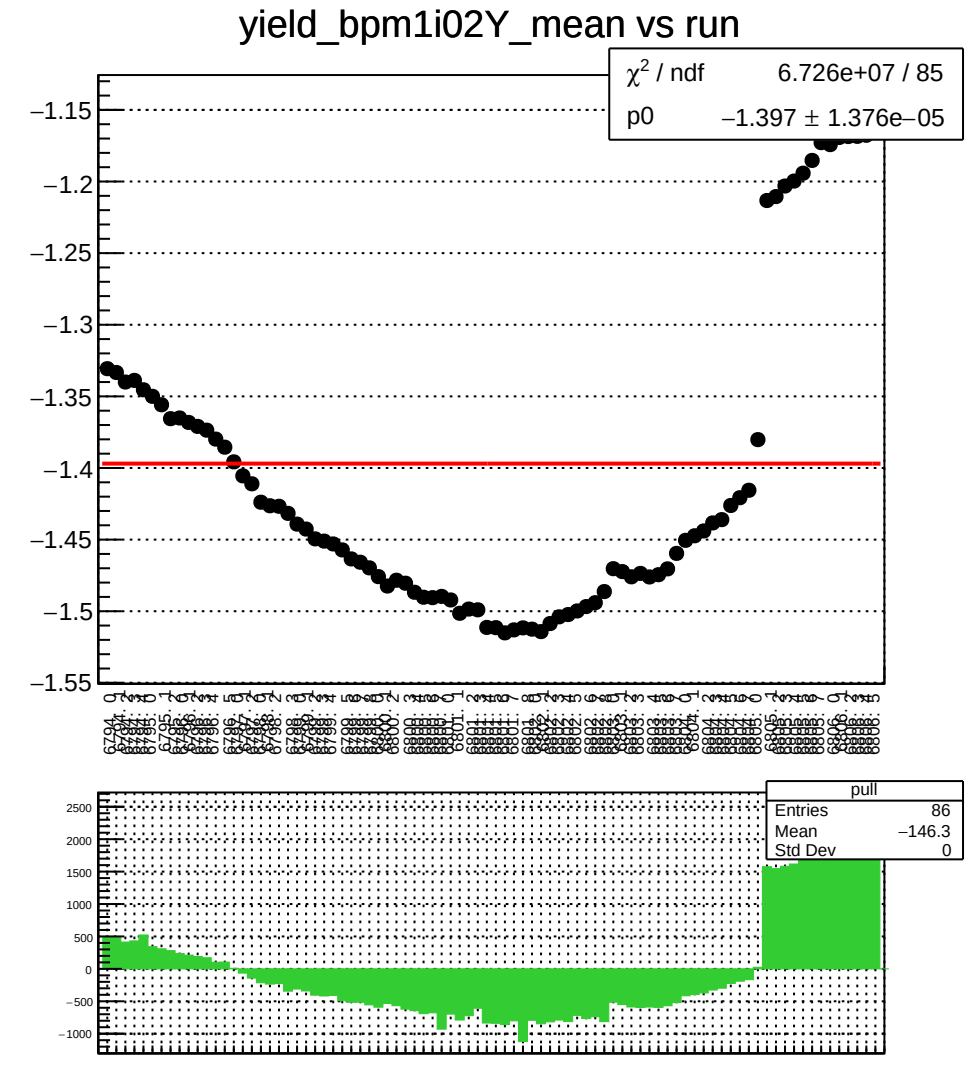

pull1D
Entries 86
Mean 0
Std Dev 0

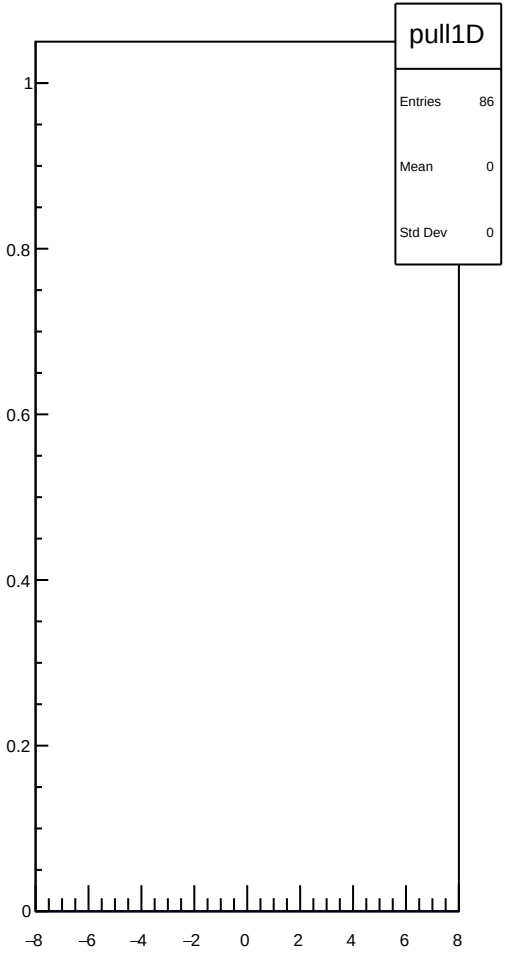

yield_bpm0i07Y_rms vs run
χ² / ndf 5.045e+05 / 85
p0 0.005466 ± 5.037e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

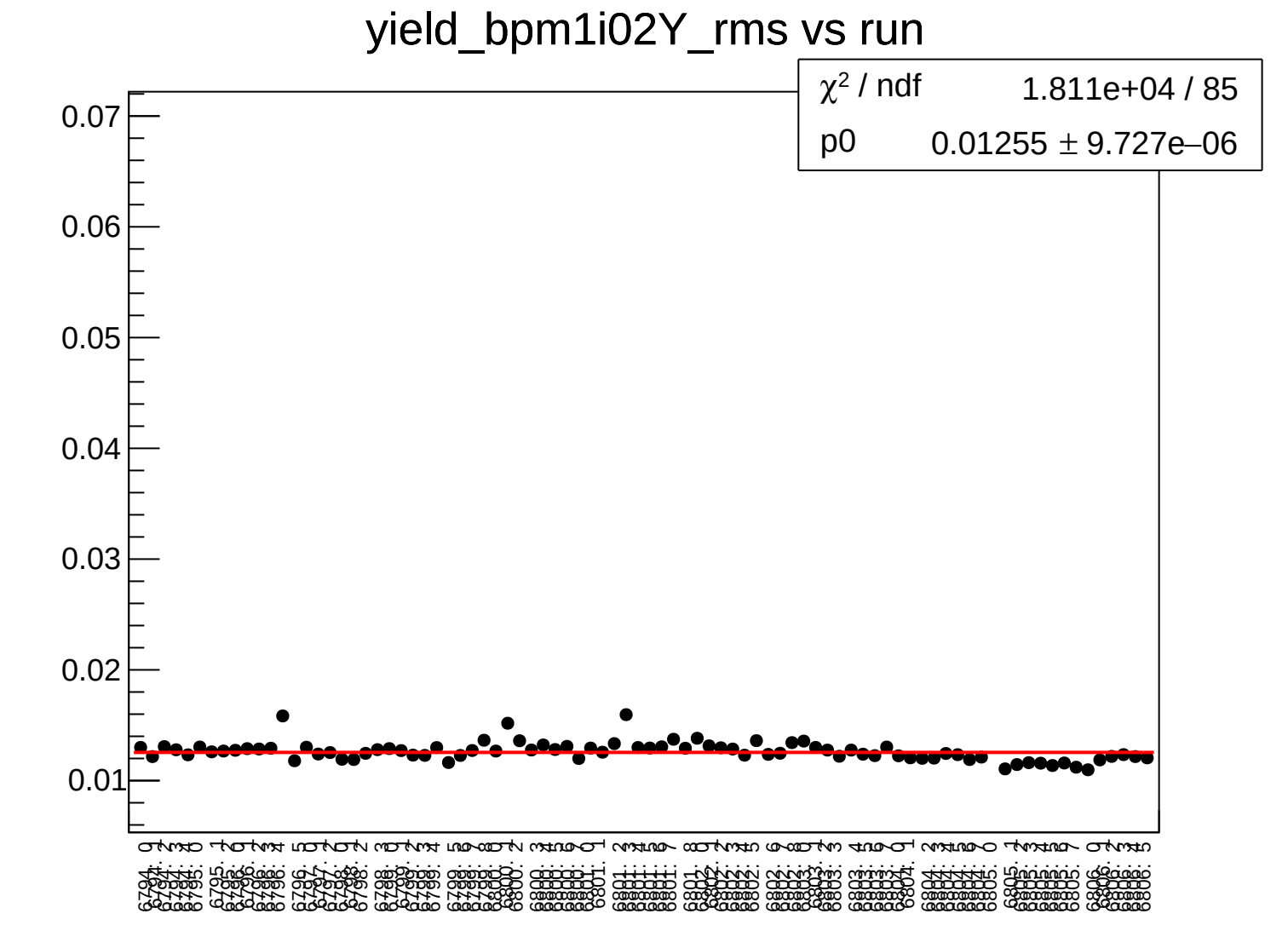

yield_bpm1i02X_mean vs run
χ² / ndf 2.392e+06 / 85
p0 −2.386 ± 2.038e−05
−2.28
−2.3
−2.32
−2.34
−2.36
−2.38
−2.4
−2.42
−2.44
pull
Entries 86
Mean 1121
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

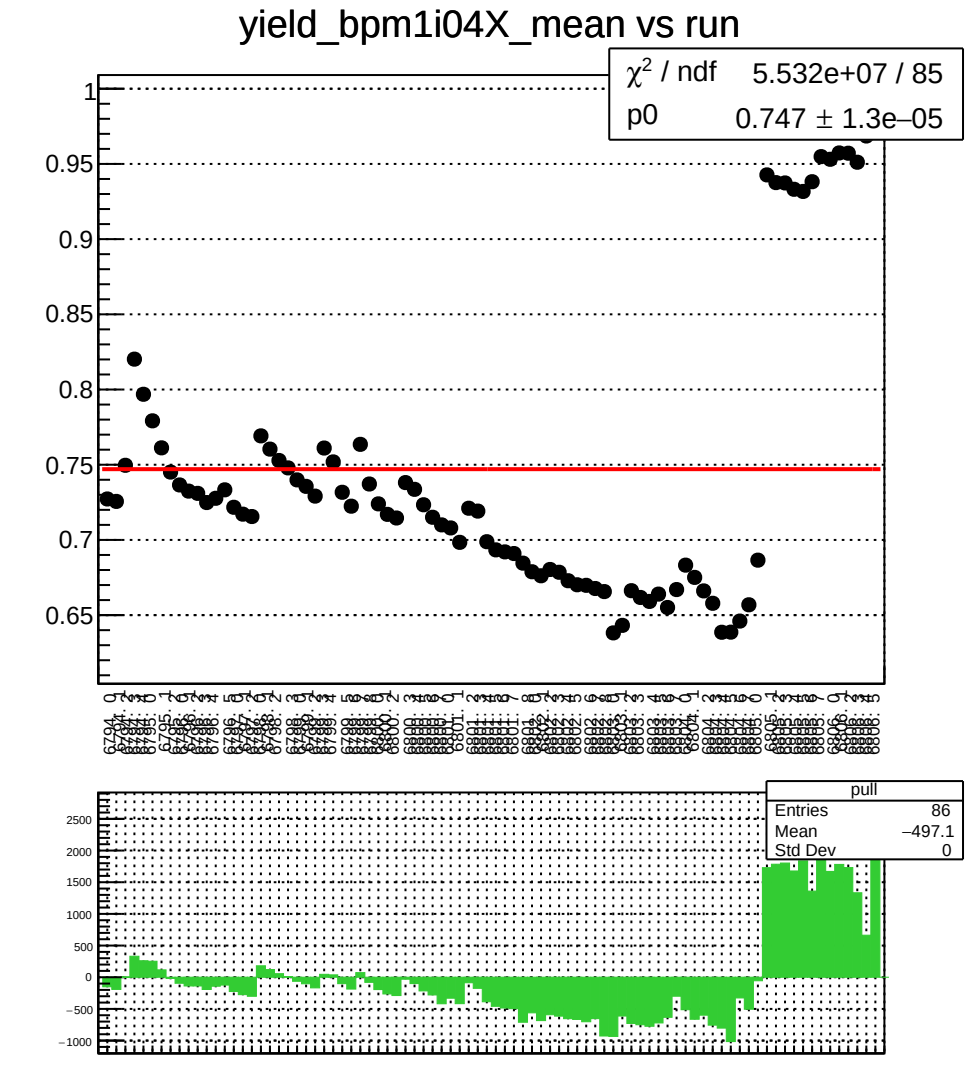

pull1D
Entries 86
Mean 0.252
Std Dev 5.231
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

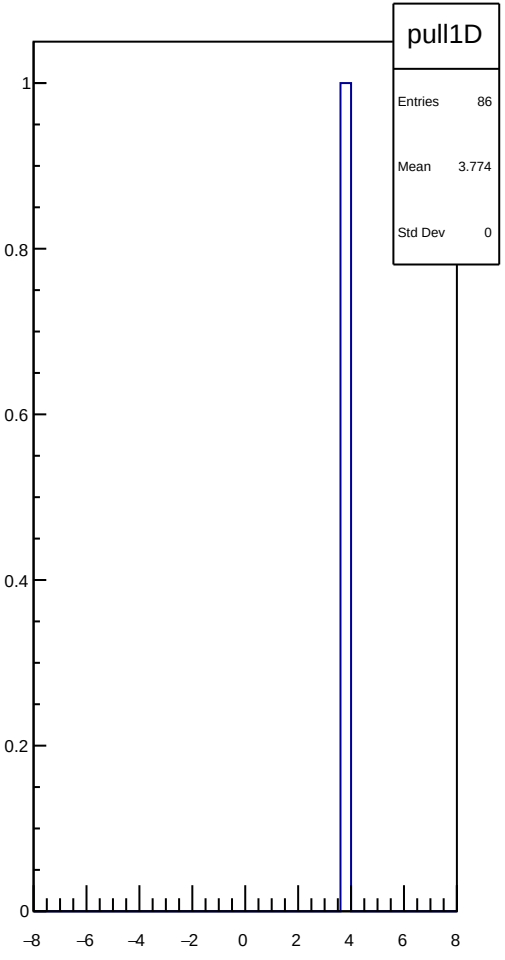

yield_bpm1i02X_rms vs run
χ² / ndf 8056 / 85
p0 0.01865 ± 1.441e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

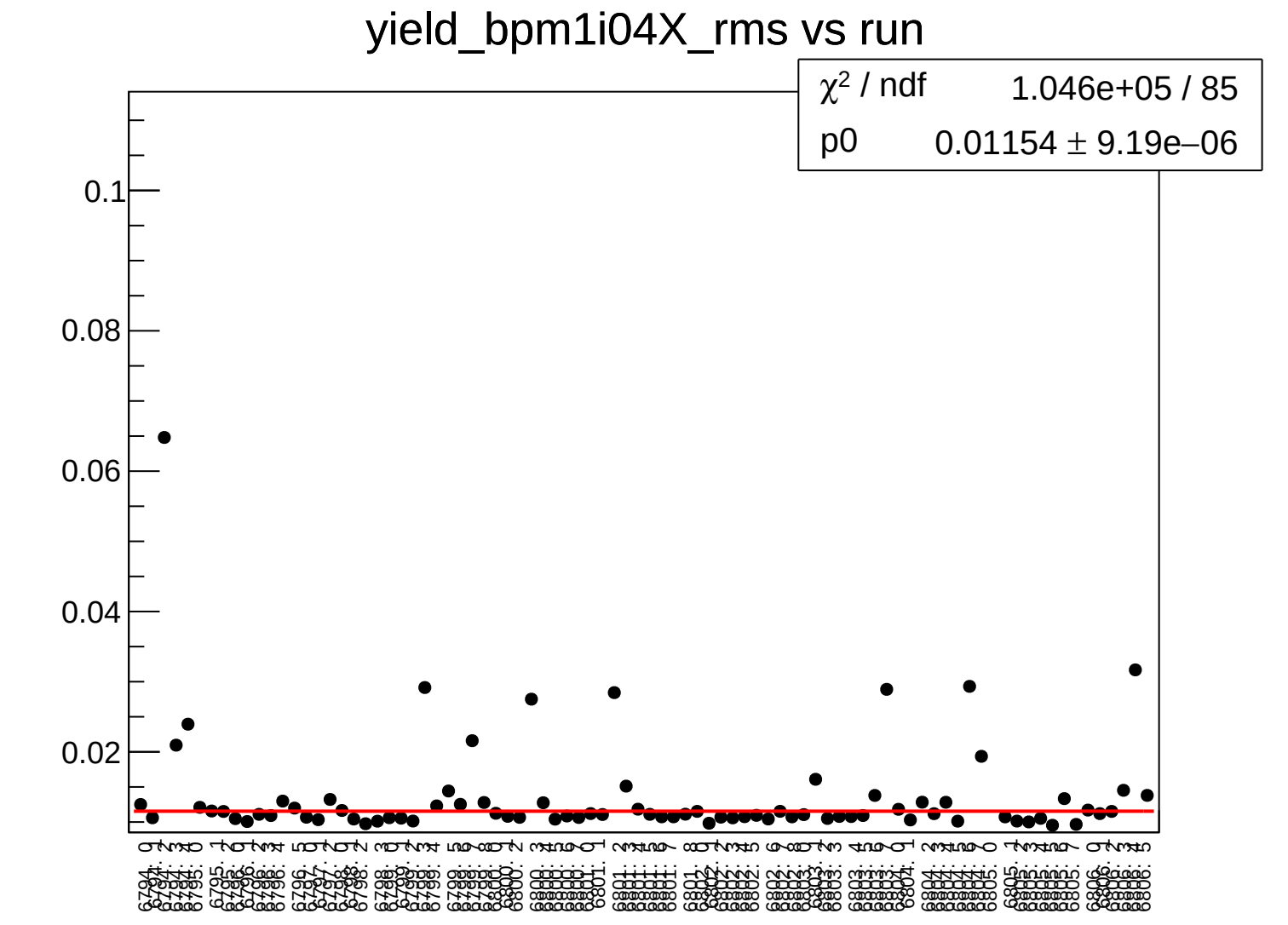

yield_bpm1i02Y_mean vs run
χ² / ndf 6.726e+07 / 85
p0 −1.397 ± 1.376e−05
pull
Entries 86
Mean −146.3
Std Dev 0

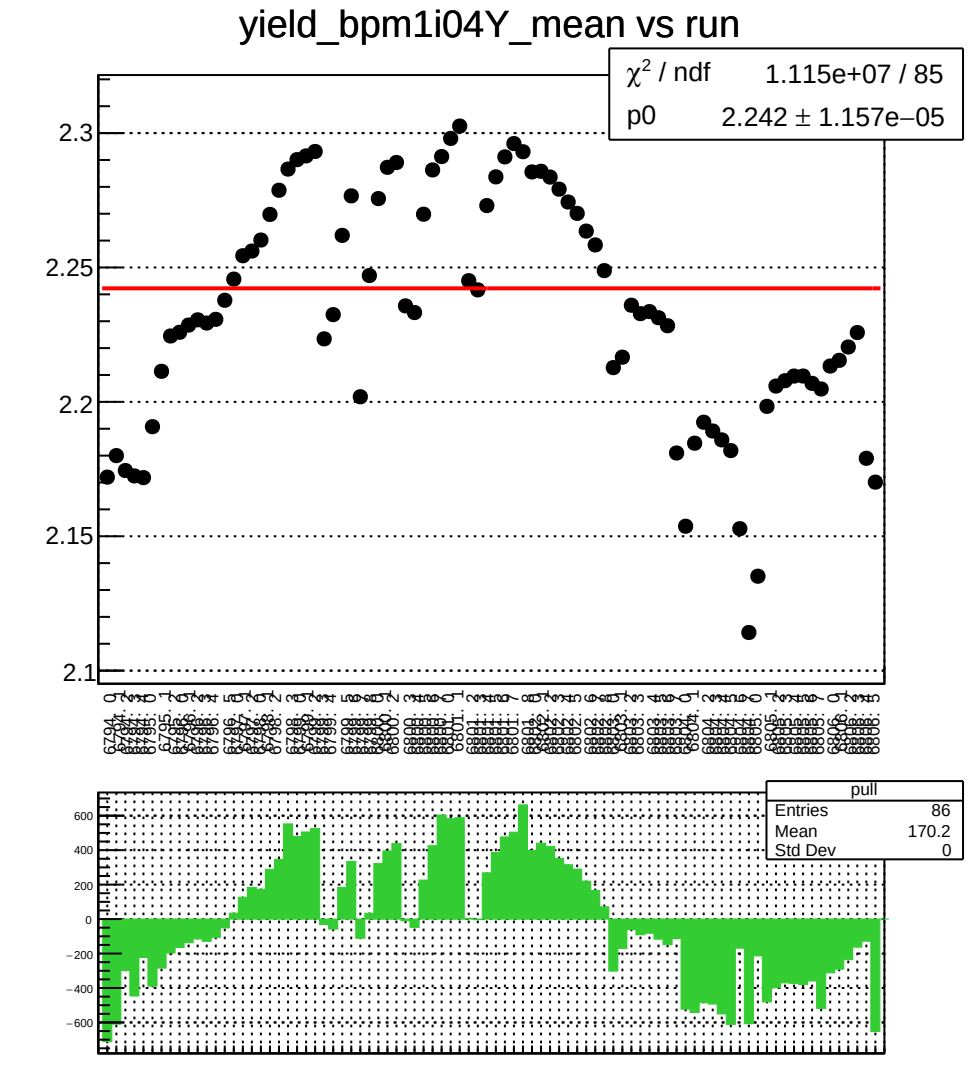

pull1D
Entries 86
Mean 0
Std Dev 0

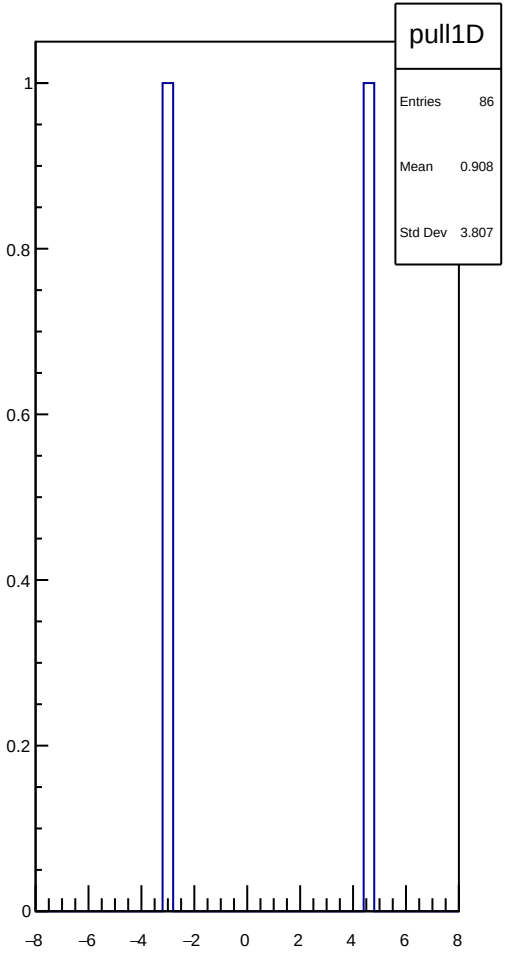

yield_bpm1i02Y_rms vs run
χ² / ndf 1.811e+04 / 85
p0 0.01255 ± 9.727e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

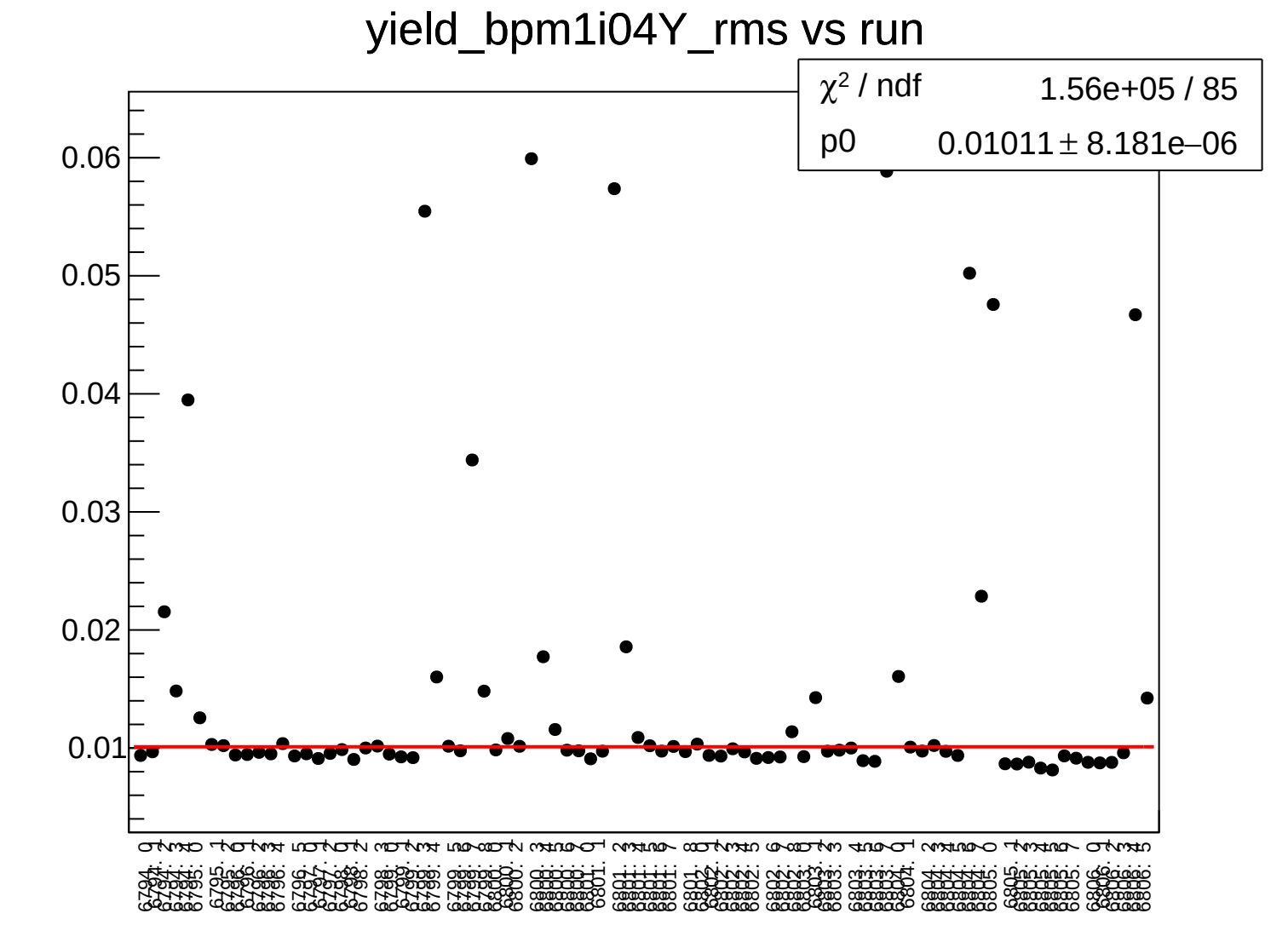

yield_bpm1i04X_mean vs run
χ² / ndf 5.532e+07 / 85
p0 0.747 ± 1.3e–05
pull
Entries 86
Mean –497.1
Std Dev 0

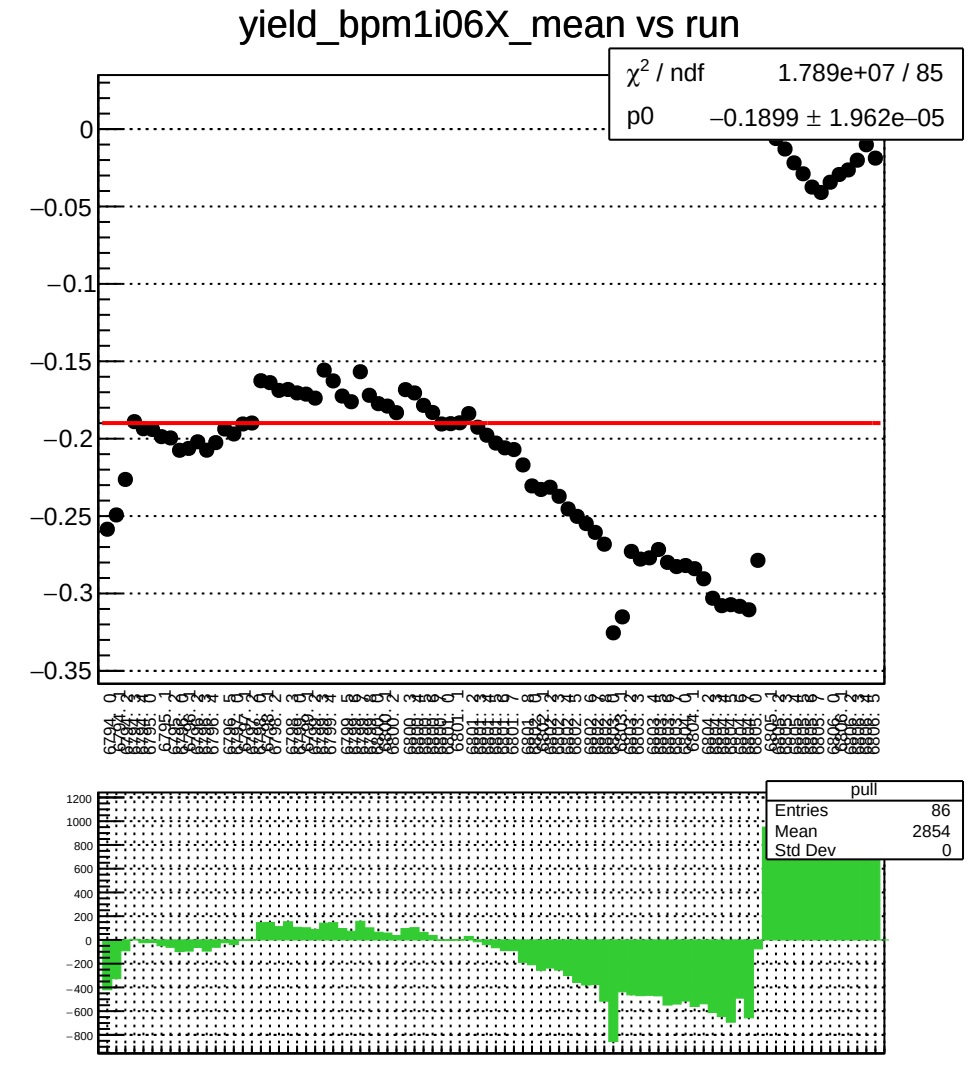

pull1D
Entries 86
Mean 3.774
Std Dev 0

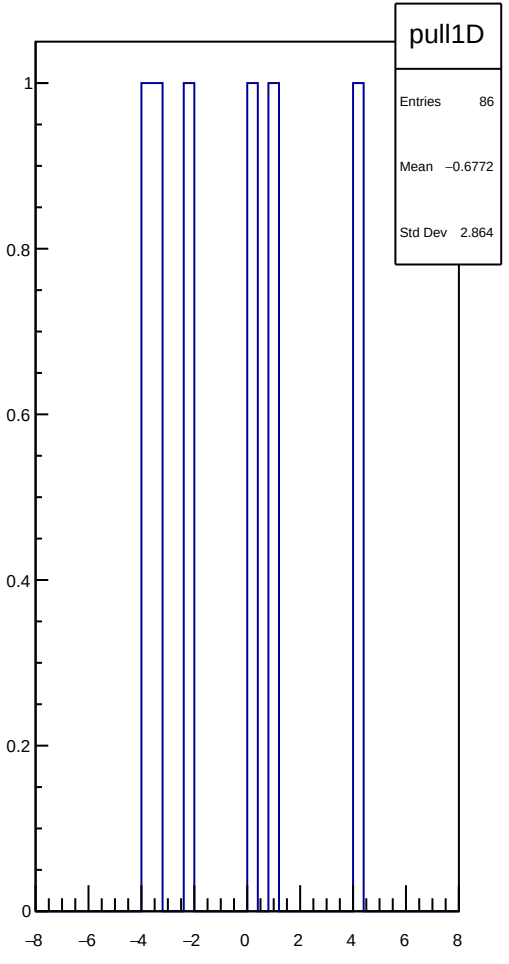

yield_bpm1i04X_rms vs run
χ^2 / ndf 1.046e+05 / 85
p0 0.01154 ± 9.19e−06
0.1
0.08
0.06
0.04
0.02

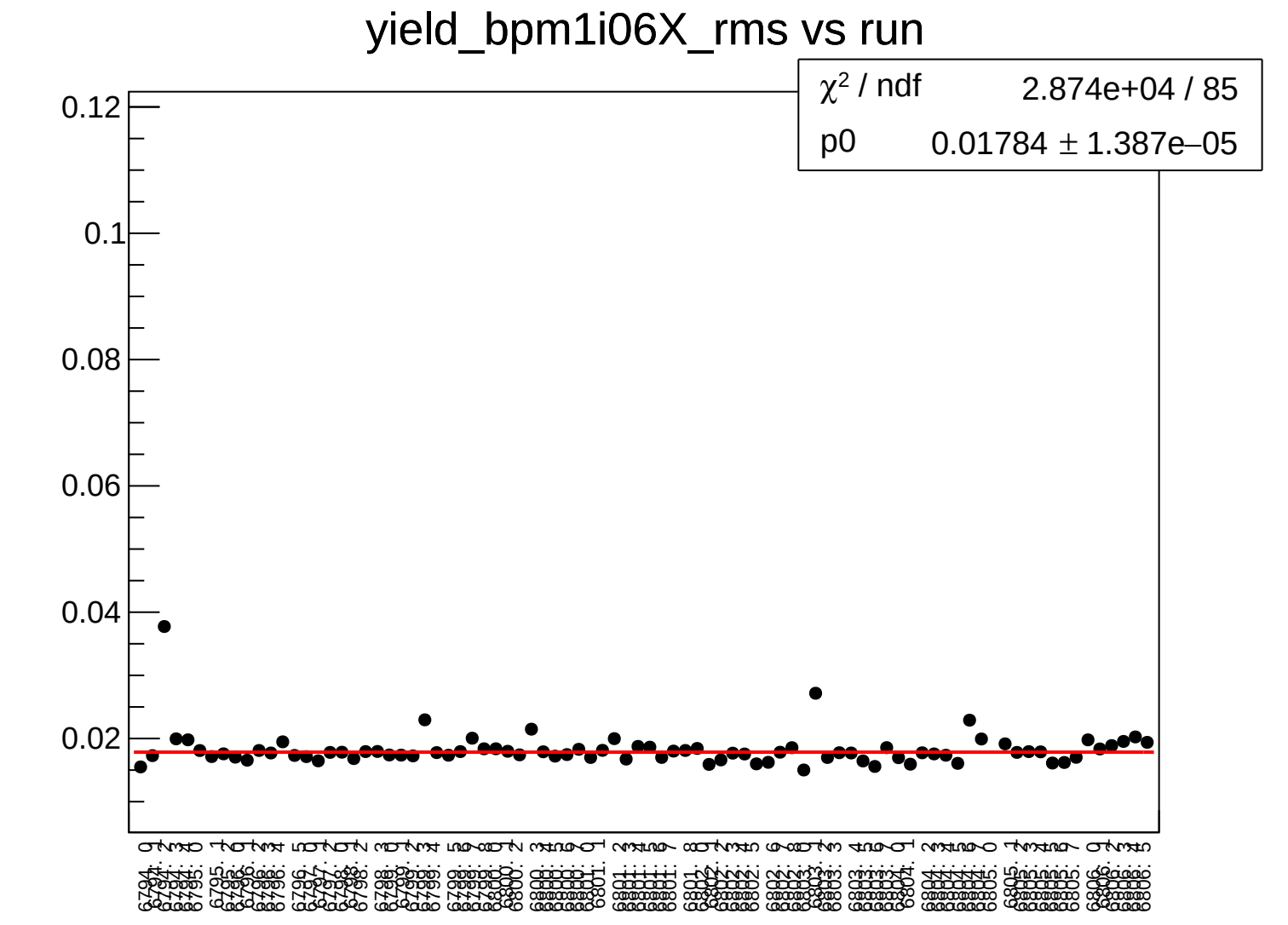

yield_bpm1i04Y_mean vs run
χ² / ndf 1.115e+07 / 85
p0 2.242 ± 1.157e−05
2.3
2.25
2.2
2.15
2.1
pull
Entries 86
Mean 170.2
Std Dev 0
600
400
200
0
−200
−400
−600

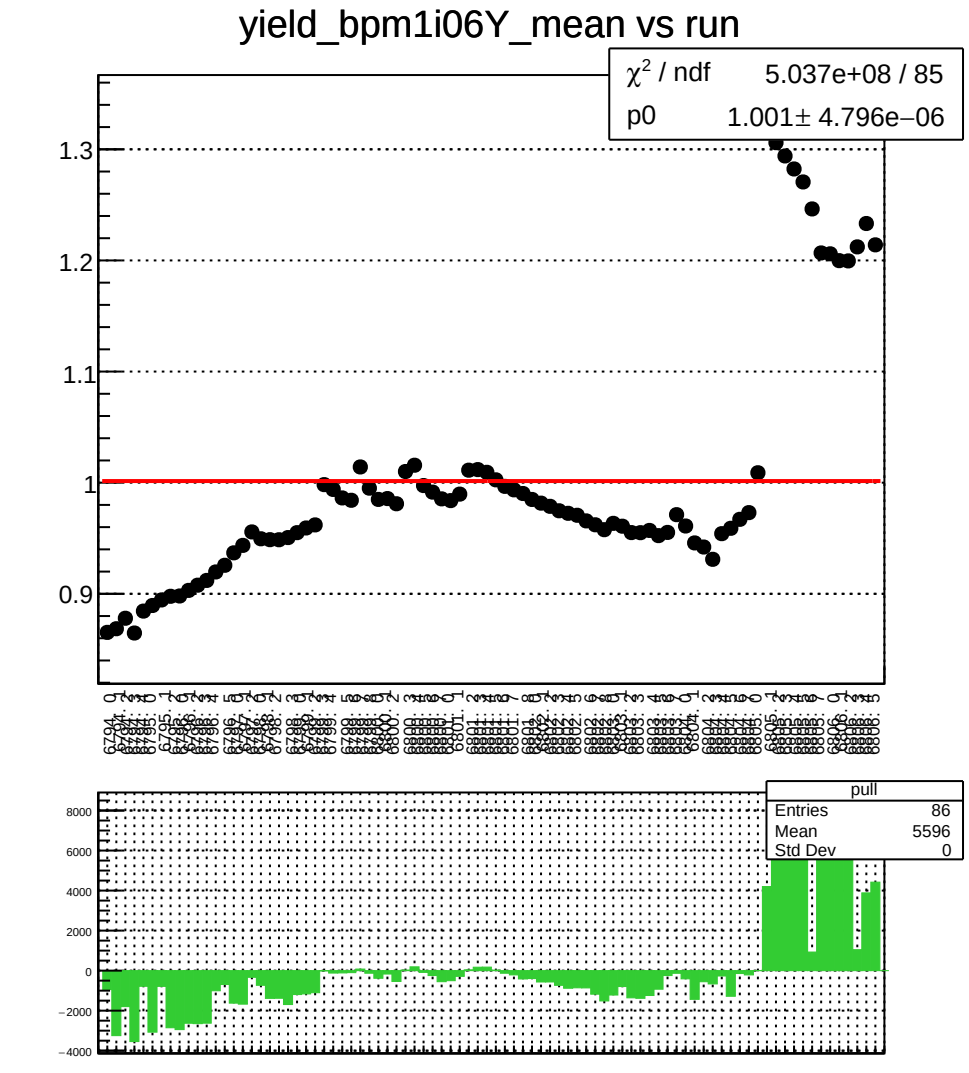

pull1D
Entries 86
Mean 0.908
Std Dev 3.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

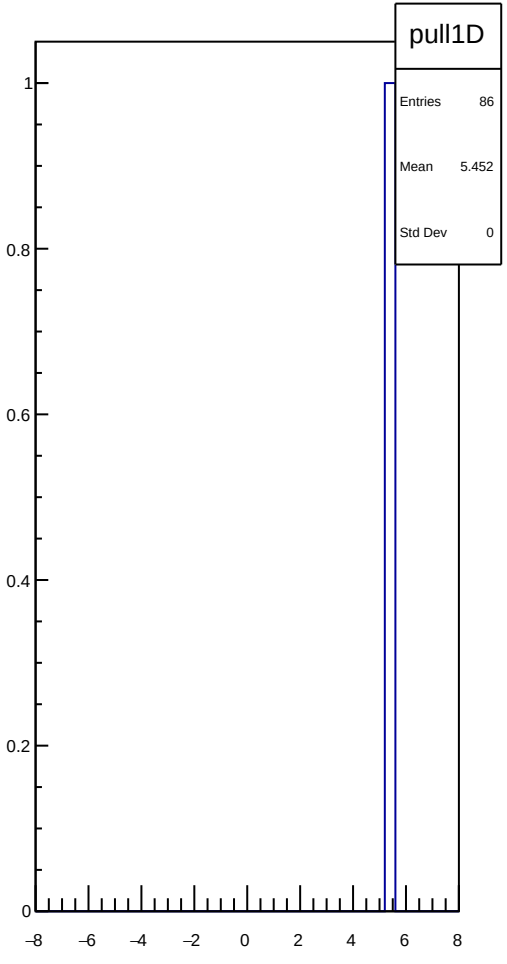

yield_bpm1i04Y_rms vs run
χ² / ndf 1.56e+05 / 85
p0 0.01011 ± 8.181e–06
0.06
0.05
0.04
0.03
0.02
0.01

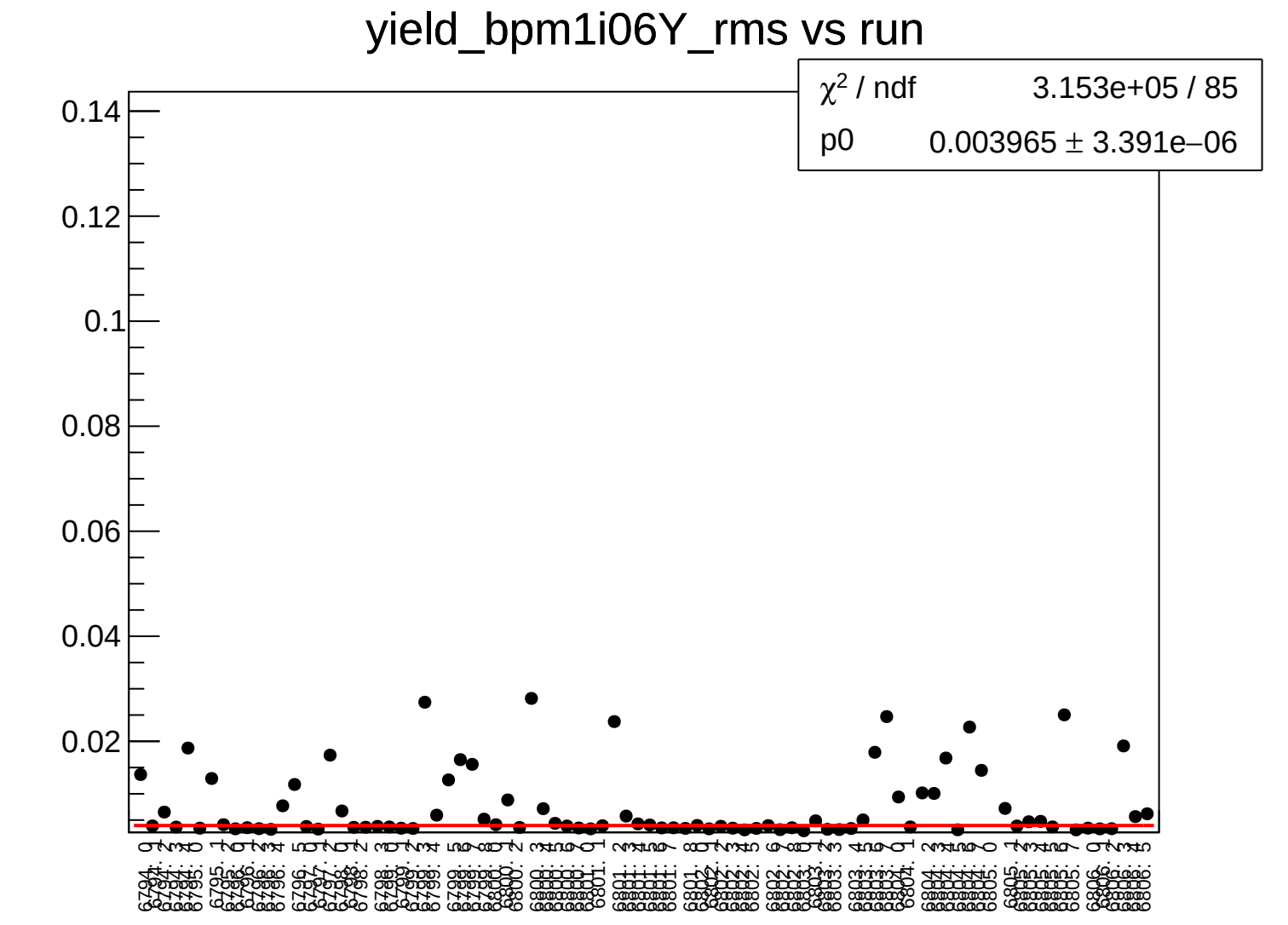

yield_bpm1i06X_mean vs run
χ² / ndf 1.789e+07 / 85
p0 −0.1899 ± 1.962e−05
pull
Entries 86
Mean 2854
Std Dev 0

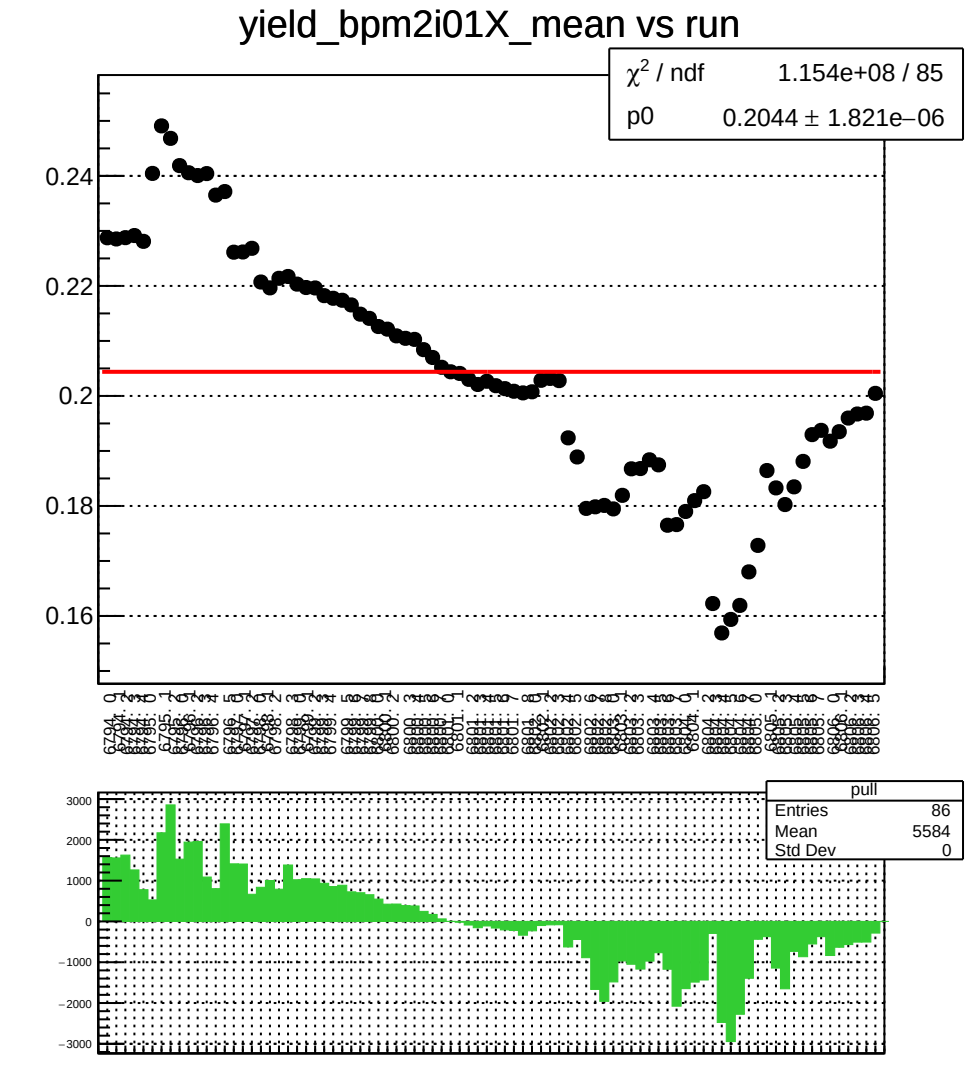

pull1D
Entries 86
Mean −0.6772
Std Dev 2.864

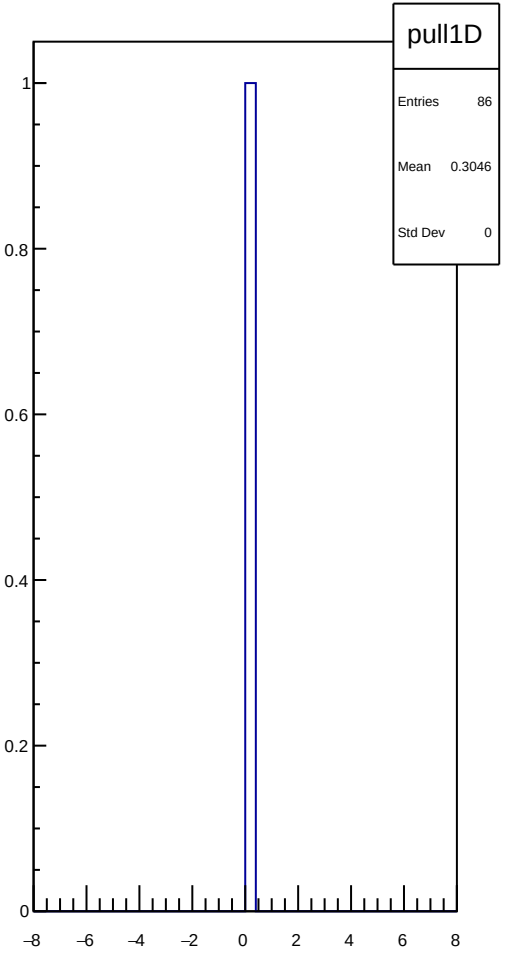

yield_bpm1i06X_rms vs run
χ² / ndf 2.874e+04 / 85
p0 0.01784 ± 1.387e–05
0.12
0.1
0.08
0.06
0.04
0.02

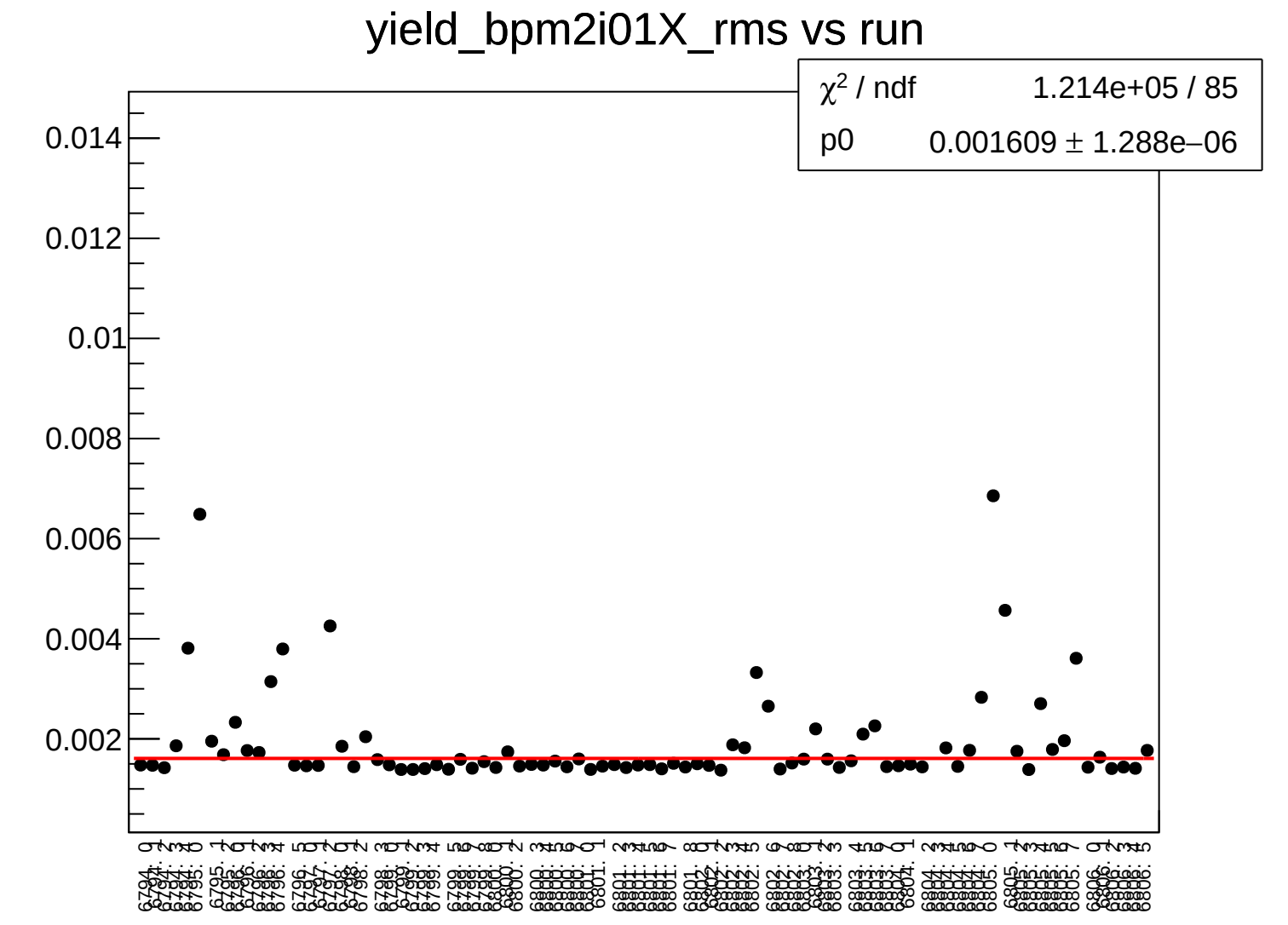

yield_bpm1i06Y_mean vs run
χ² / ndf 5.037e+08 / 85
p0 1.001± 4.796e−06
1.3
1.2
1.1
1
0.9
pull
Entries 86
Mean 5596
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000

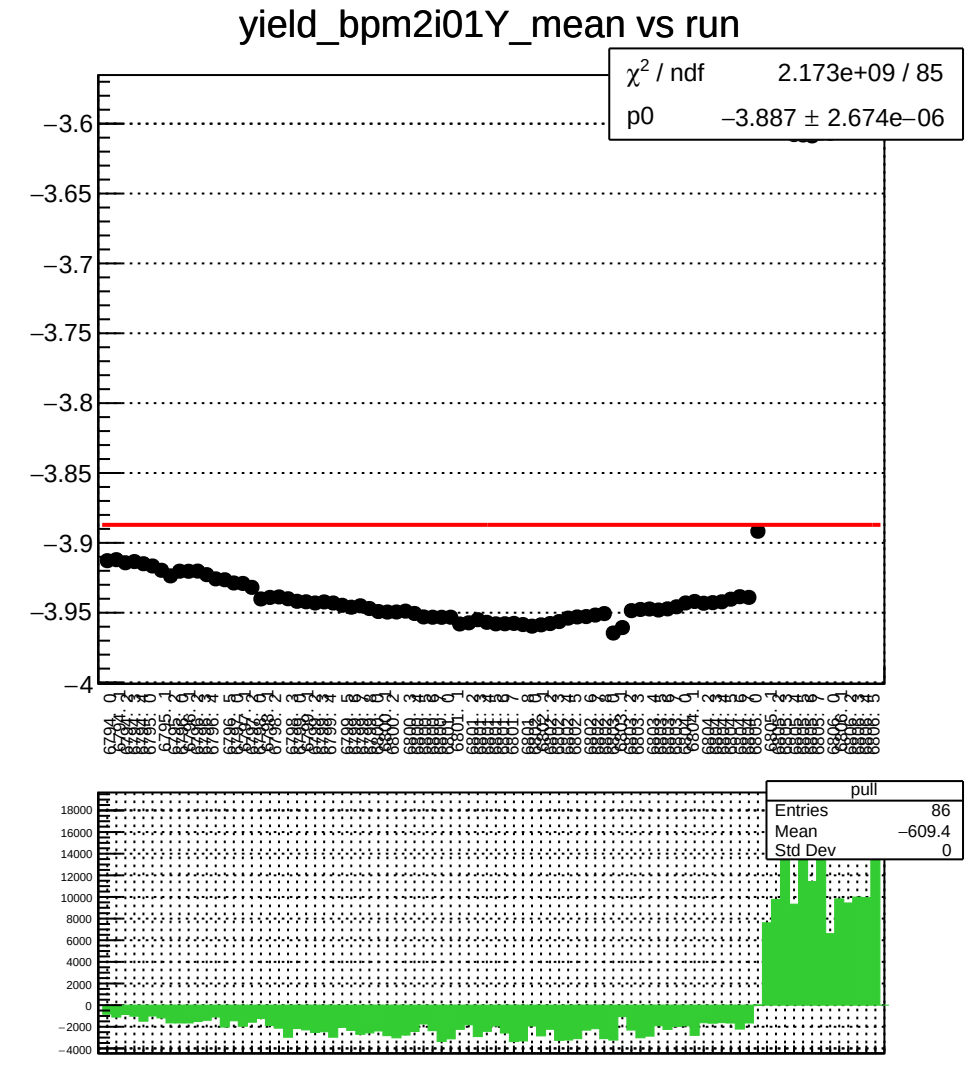

pull1D
Entries 86
Mean 5.452
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

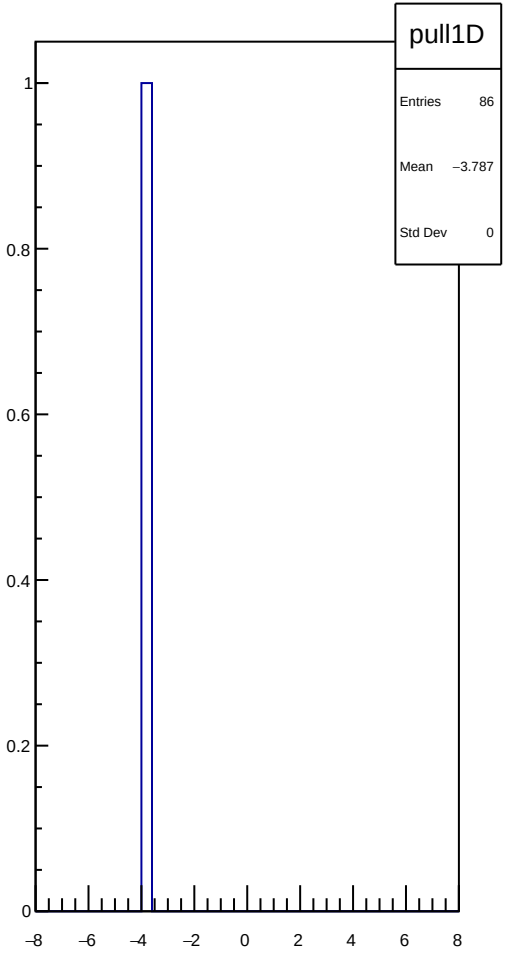

yield_bpm1i06Y_rms vs run
χ² / ndf 3.153e+05 / 85
p0 0.003965 ± 3.391e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

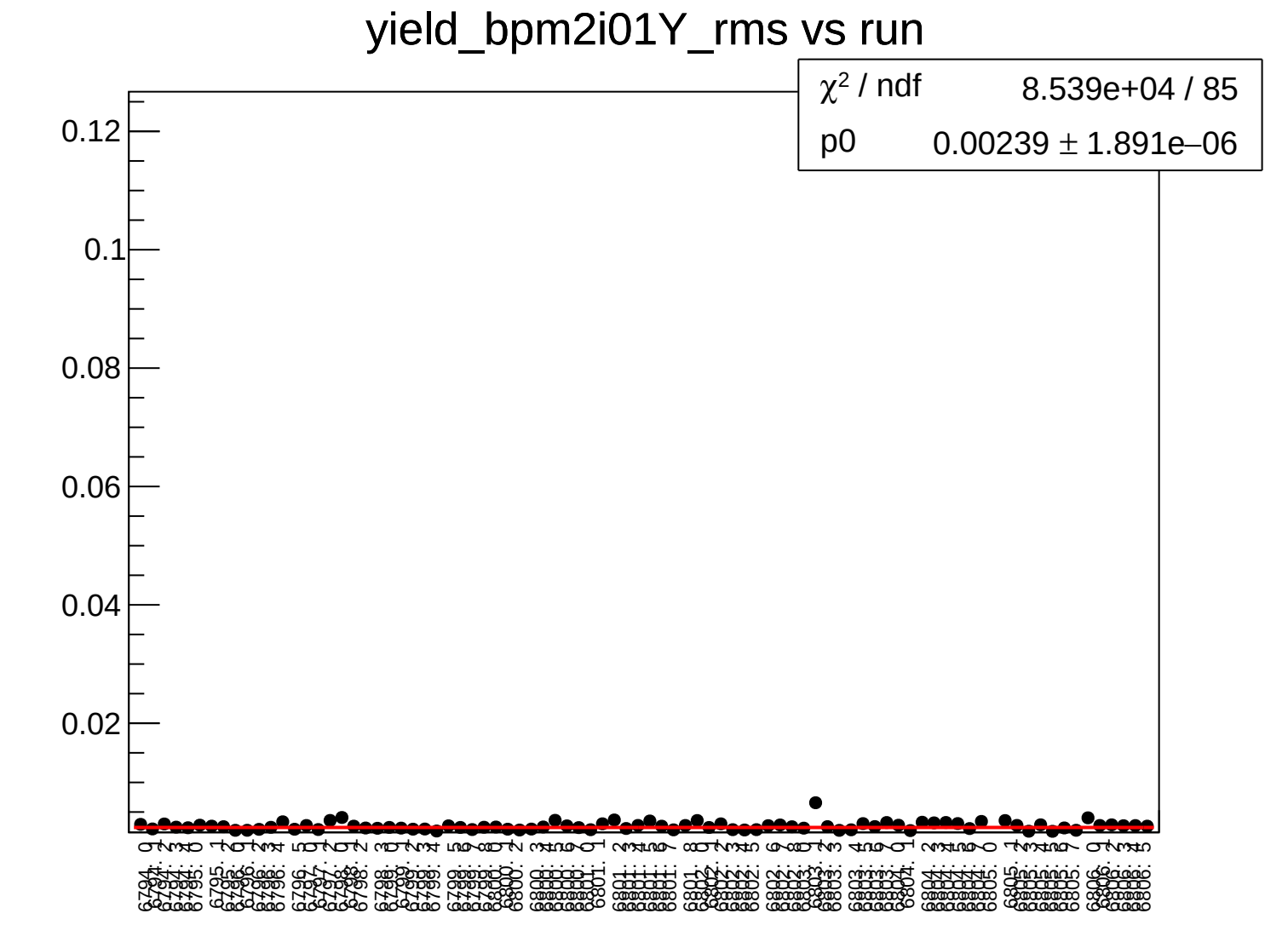

yield_bpm2i01X_mean vs run
χ² / ndf 1.154e+08 / 85
p0 0.2044 ± 1.821e−06
0.24
0.22
0.2
0.18
0.16
pull
Entries 86
Mean 5584
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

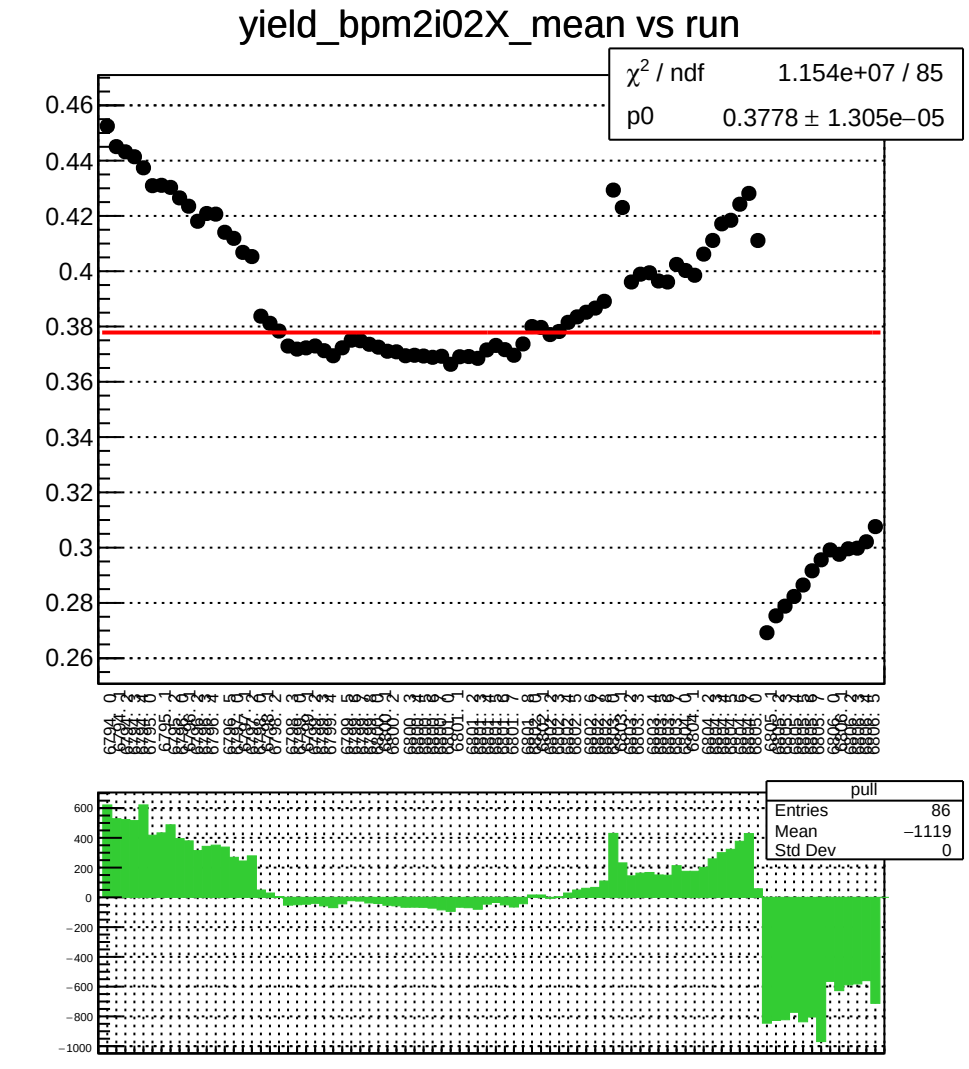

pull1D
Entries 86
Mean 0.3046
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

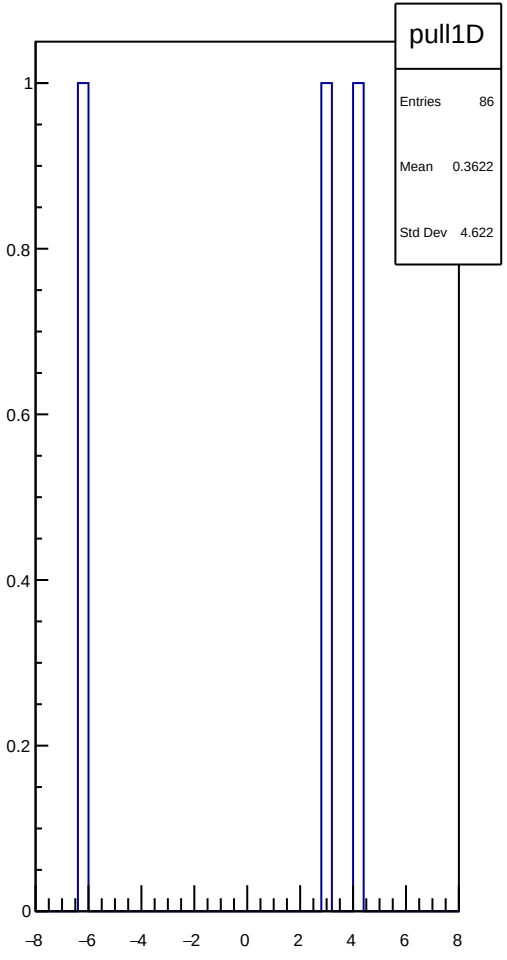

yield_bpm2i01X_rms vs run
χ^2 / ndf 1.214e+05 / 85
p0 0.001609 ± 1.288e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

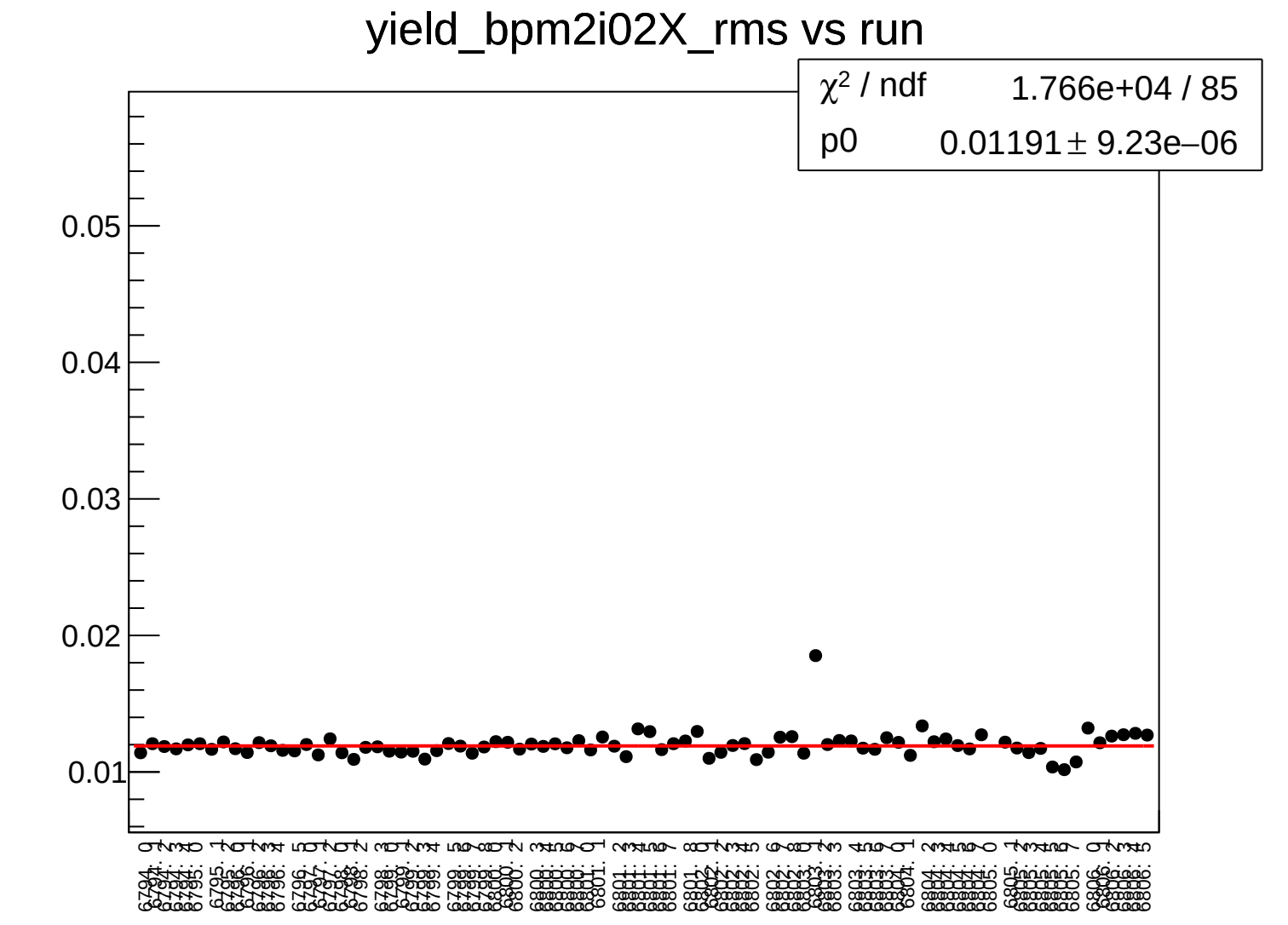

yield_bpm2i01Y_mean vs run
χ² / ndf 2.173e+09 / 85
p0 −3.887 ± 2.674e−06
−3.6
−3.65
−3.7
−3.75
−3.8
−3.85
−3.9
−3.95
−4
pull
Entries 86
Mean −609.4
Std Dev 0
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000

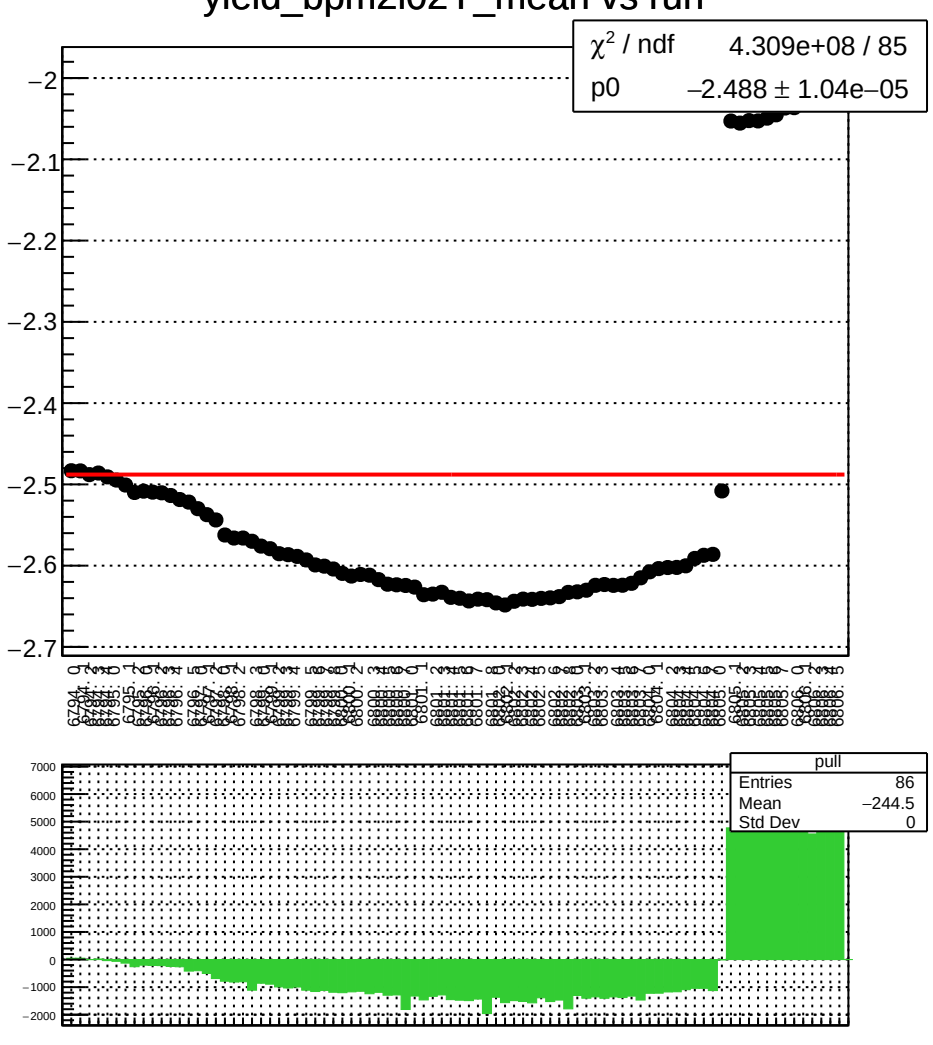

pull1D
Entries 86
Mean −3.787
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

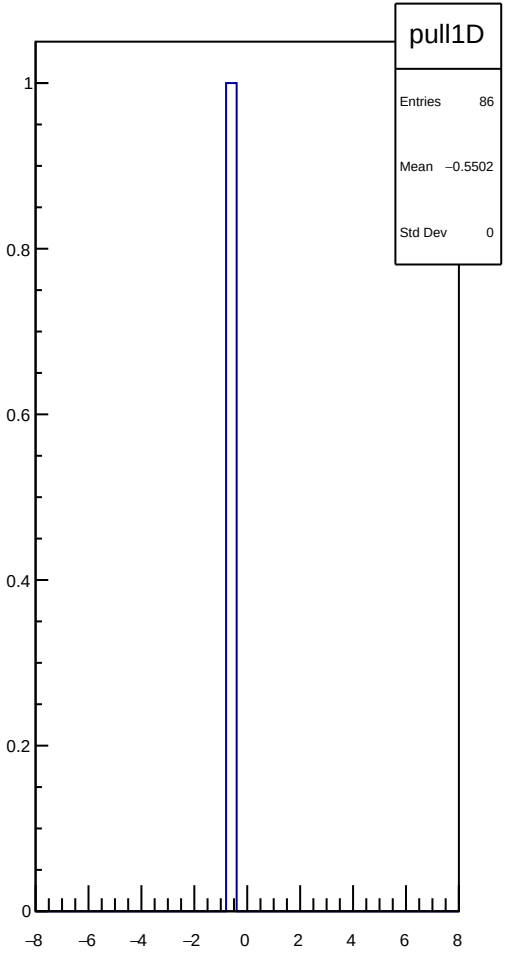

yield_bpm2i01Y_rms vs run
χ² / ndf 8.539e+04 / 85
p0 0.00239 ± 1.891e–06
0.12
0.1
0.08
0.06
0.04
0.02

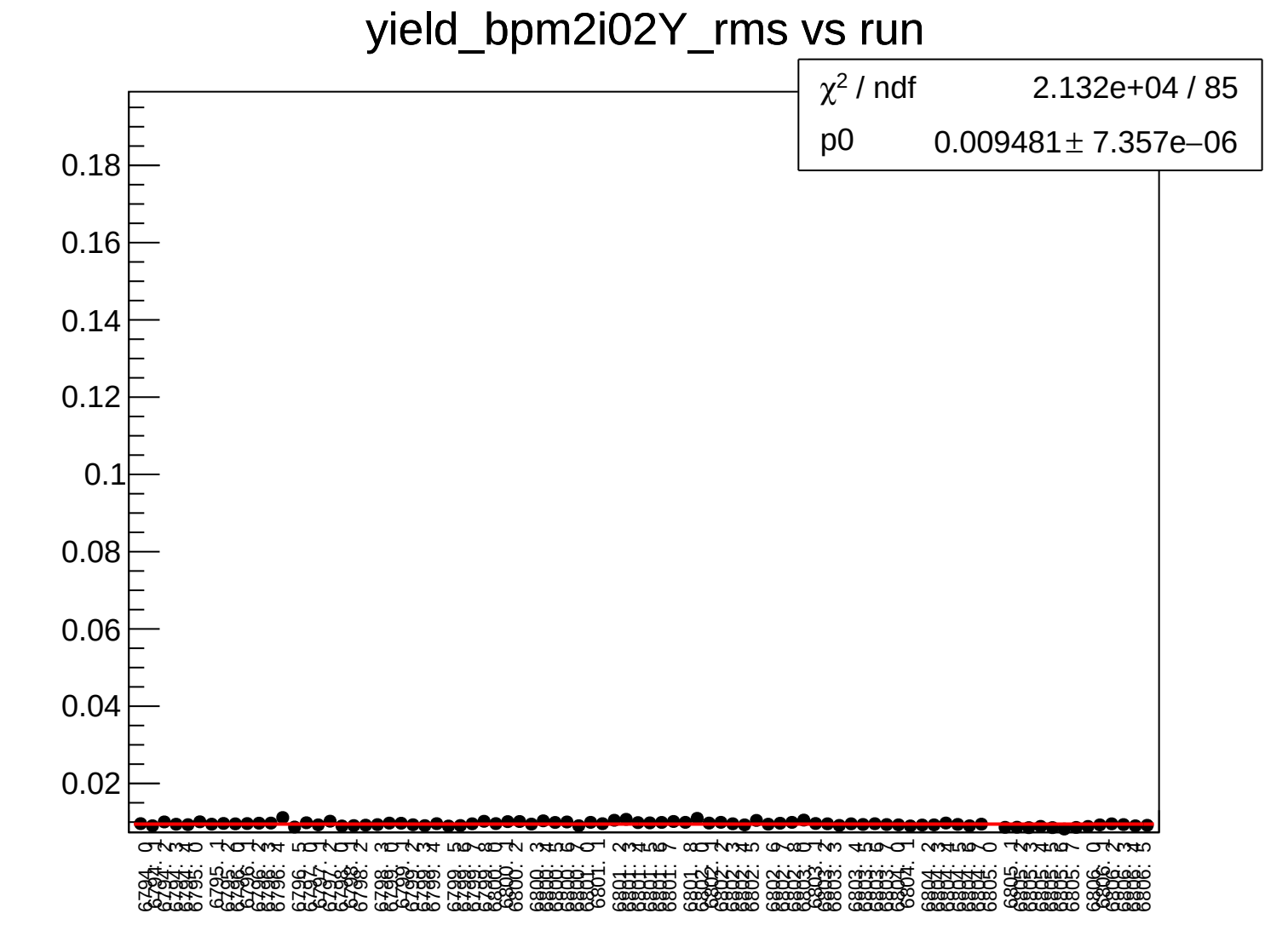

yield_bpm2i02X_mean vs run
χ² / ndf 1.154e+07 / 85
p0 0.3778 ± 1.305e−05
pull
Entries 86
Mean −1119
Std Dev 0

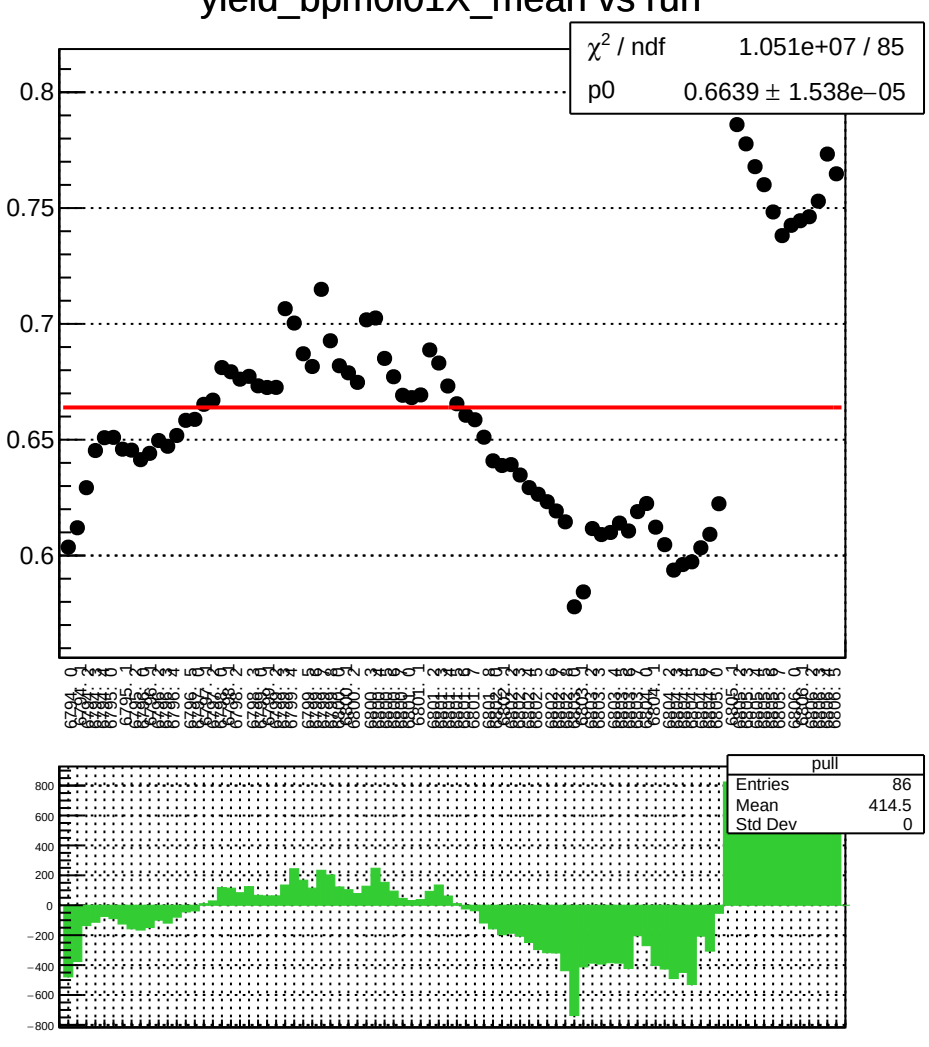

pull1D
Entries 86
Mean 0.3622
Std Dev 4.622

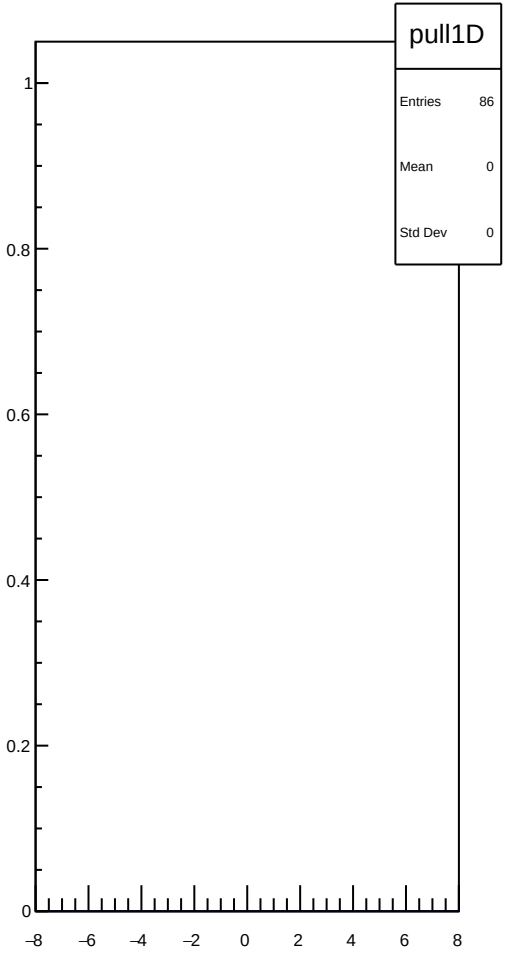

yield_bpm2i02X_rms vs run
χ² / ndf 1.766e+04 / 85
p0 0.01191 ± 9.23e–06
0.05
0.04
0.03
0.02
0.01

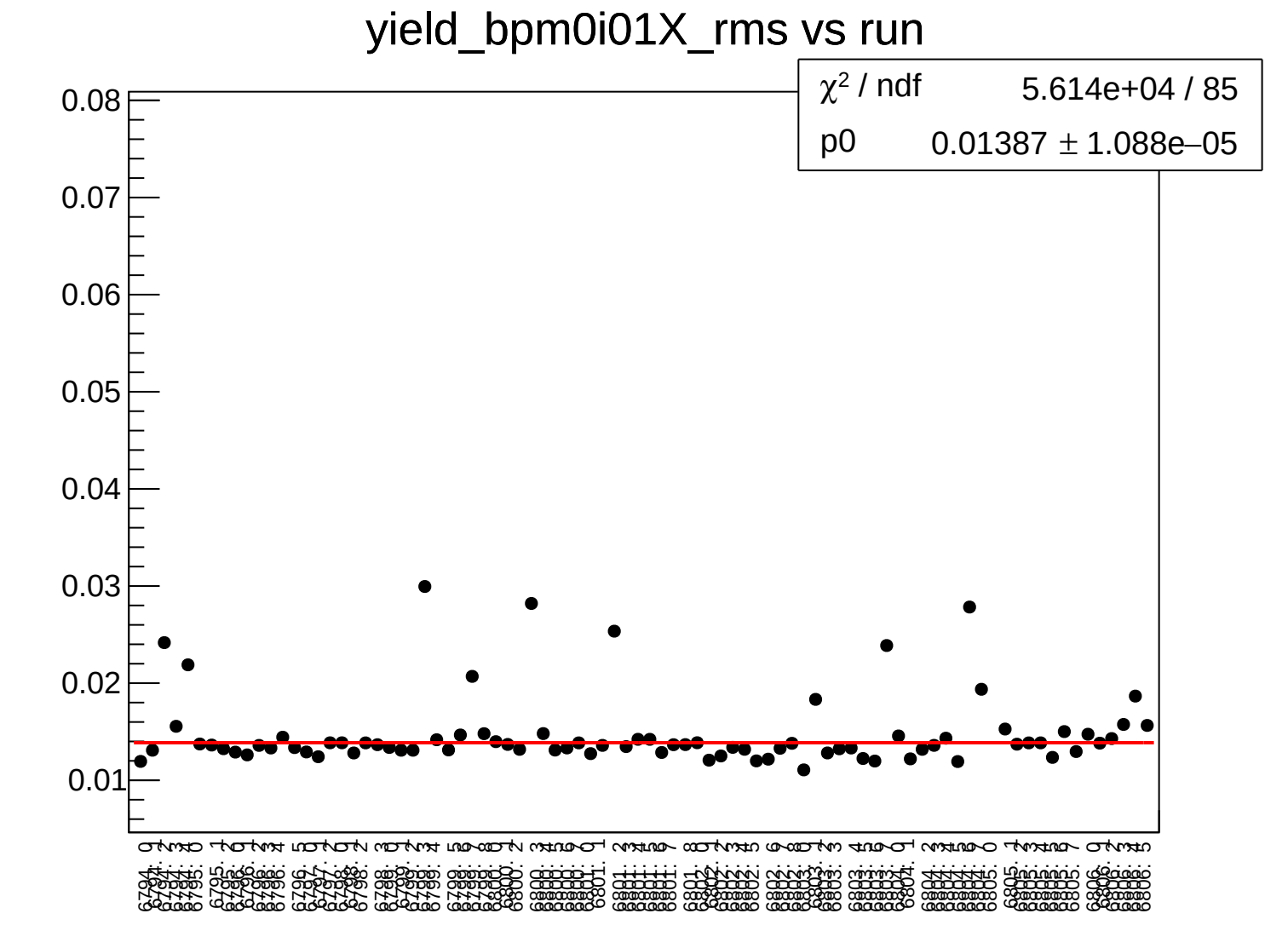

yield_bpm2i02Y_mean vs run
χ² / ndf 4.309e+08 / 85
p0 −2.488 ± 1.04e−05
pull
Entries 86
Mean −244.5
Std Dev 0

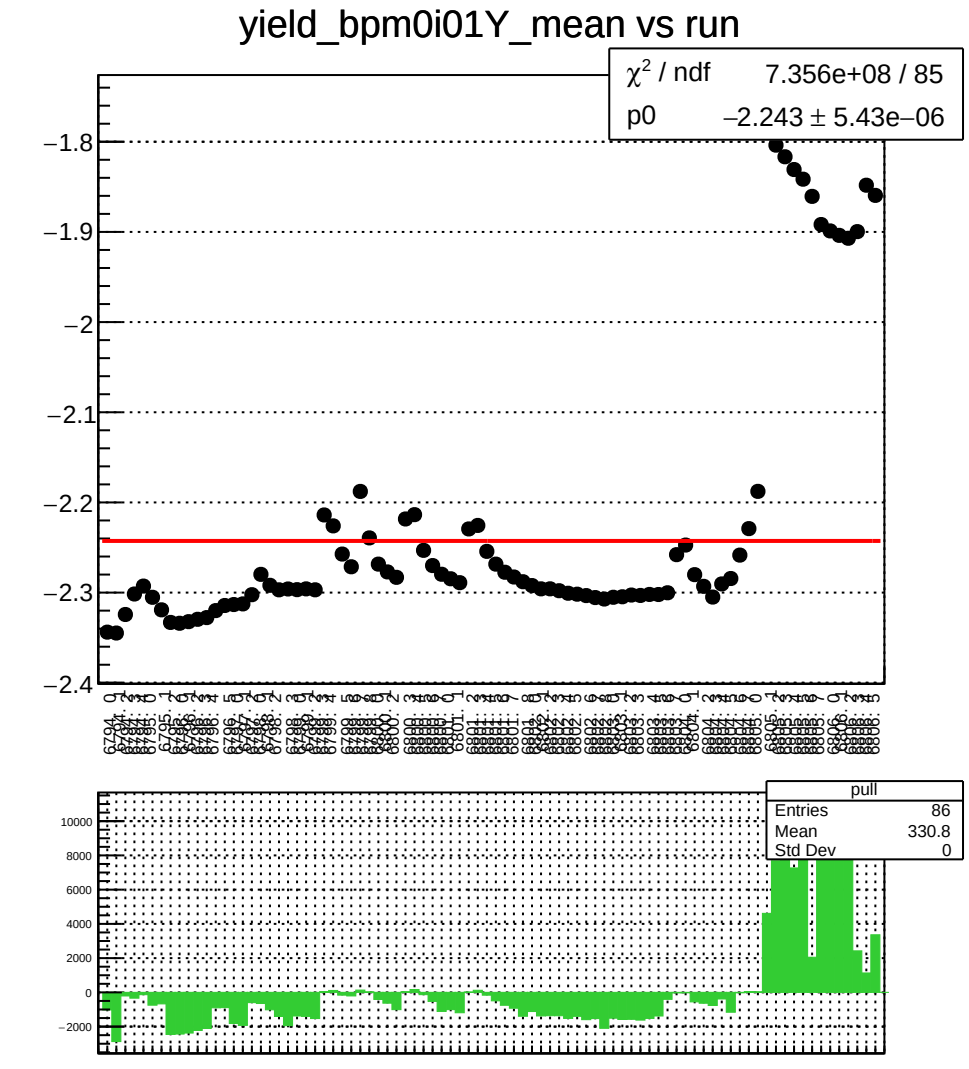

pull1D
Entries 86
Mean −0.5502
Std Dev 0

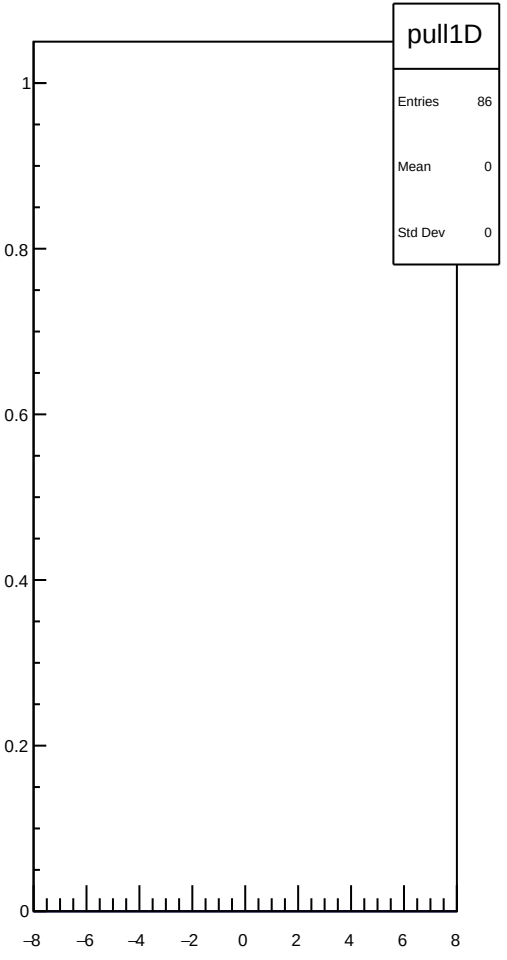

yield_bpm2i02Y_rms vs run
χ² / ndf 2.132e+04 / 85
p0 0.009481 ± 7.357e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

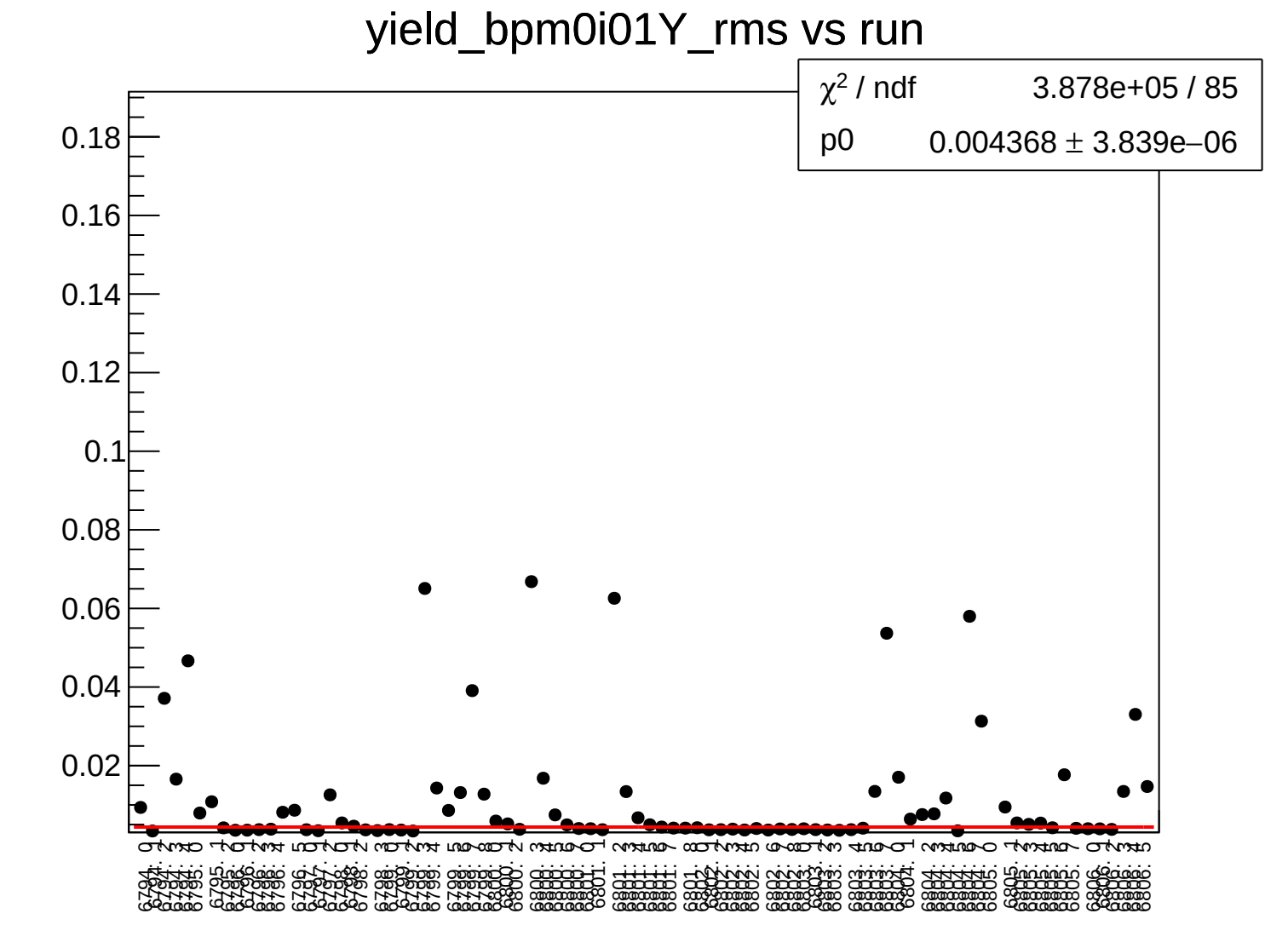

yield_bpm0i01X_mean vs run
χ² / ndf 1.051e+07 / 85
p0 0.6639 ± 1.538e−05
0.8
0.75
0.7
0.65
0.6
pull
Entries 86
Mean 414.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

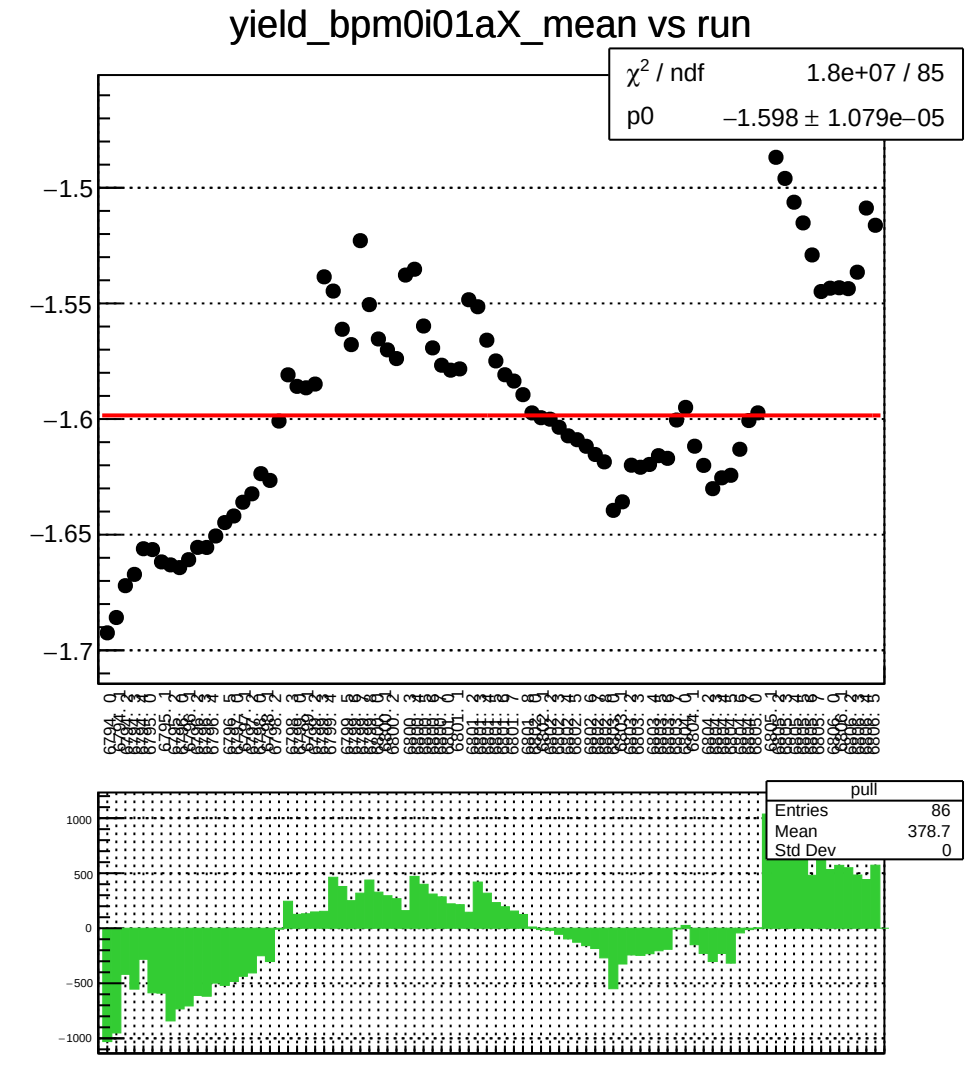

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

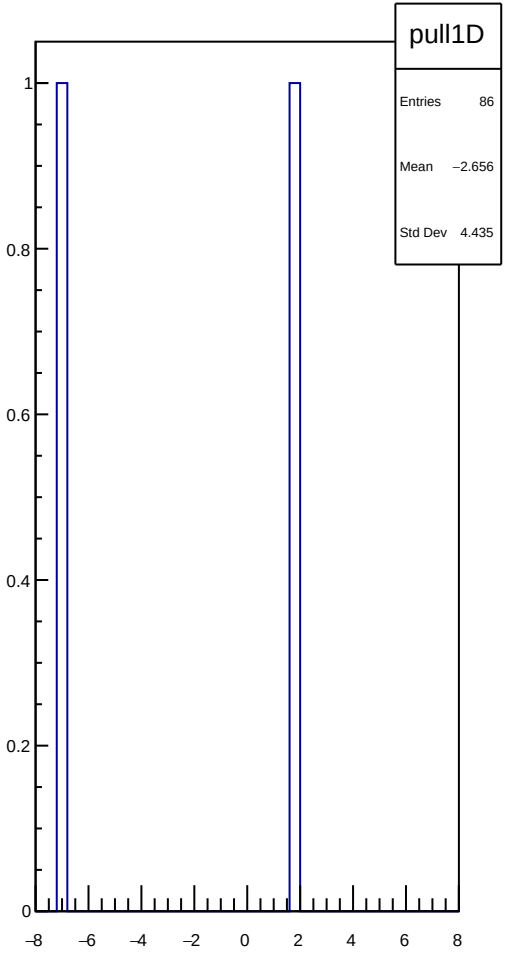

yield_bpm0i01X_rms vs run
χ² / ndf 5.614e+04 / 85
p0 0.01387 ± 1.088e–05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

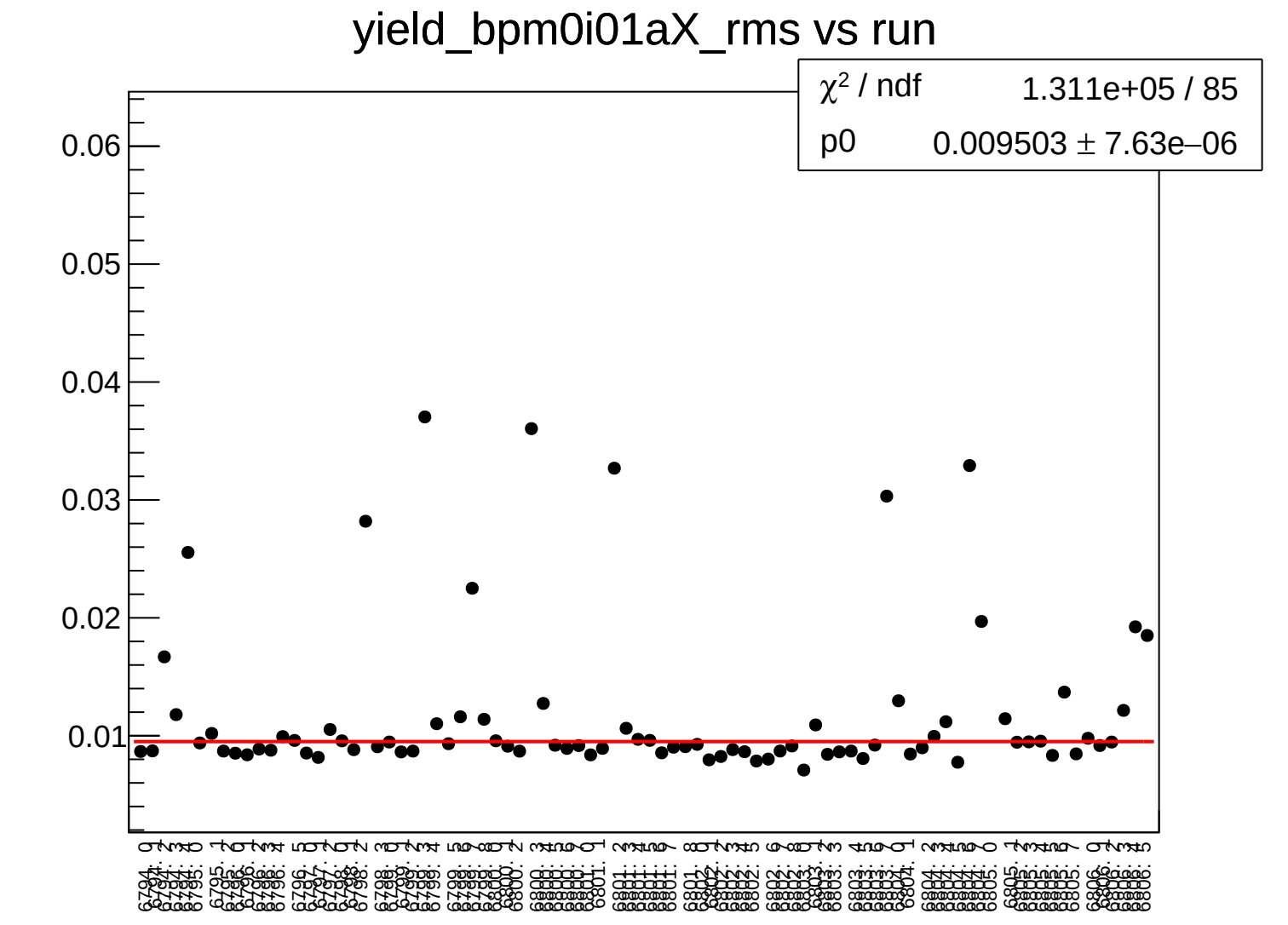

yield_bpm0i01Y_mean vs run
χ² / ndf 7.356e+08 / 85
p0 −2.243 ± 5.43e−06
−1.8
−1.9
−2
−2.1
−2.2
−2.3
−2.4
pull
Entries 86
Mean 330.8
Std Dev 0
10000
8000
6000
4000
2000
0
−2000

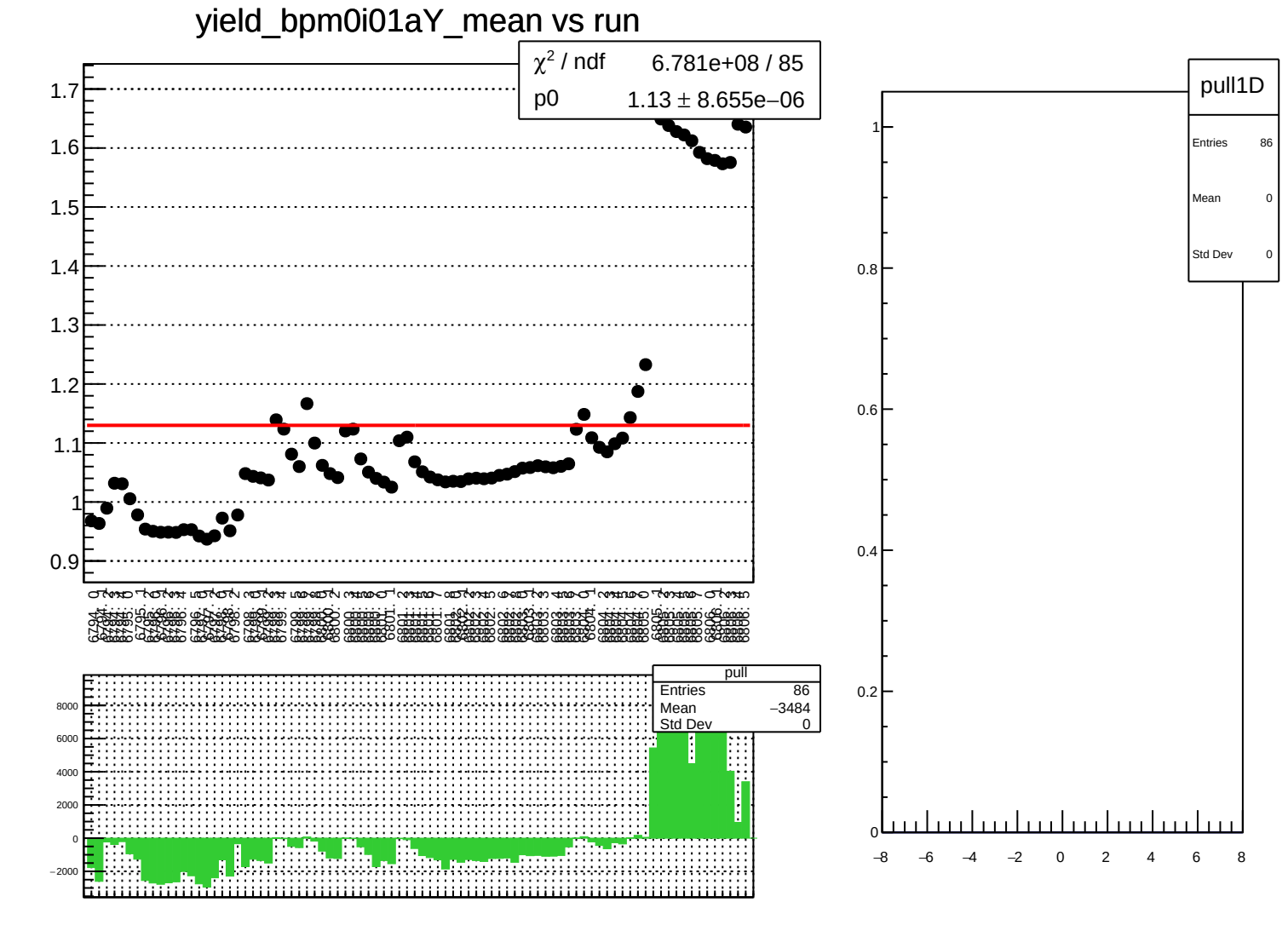

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

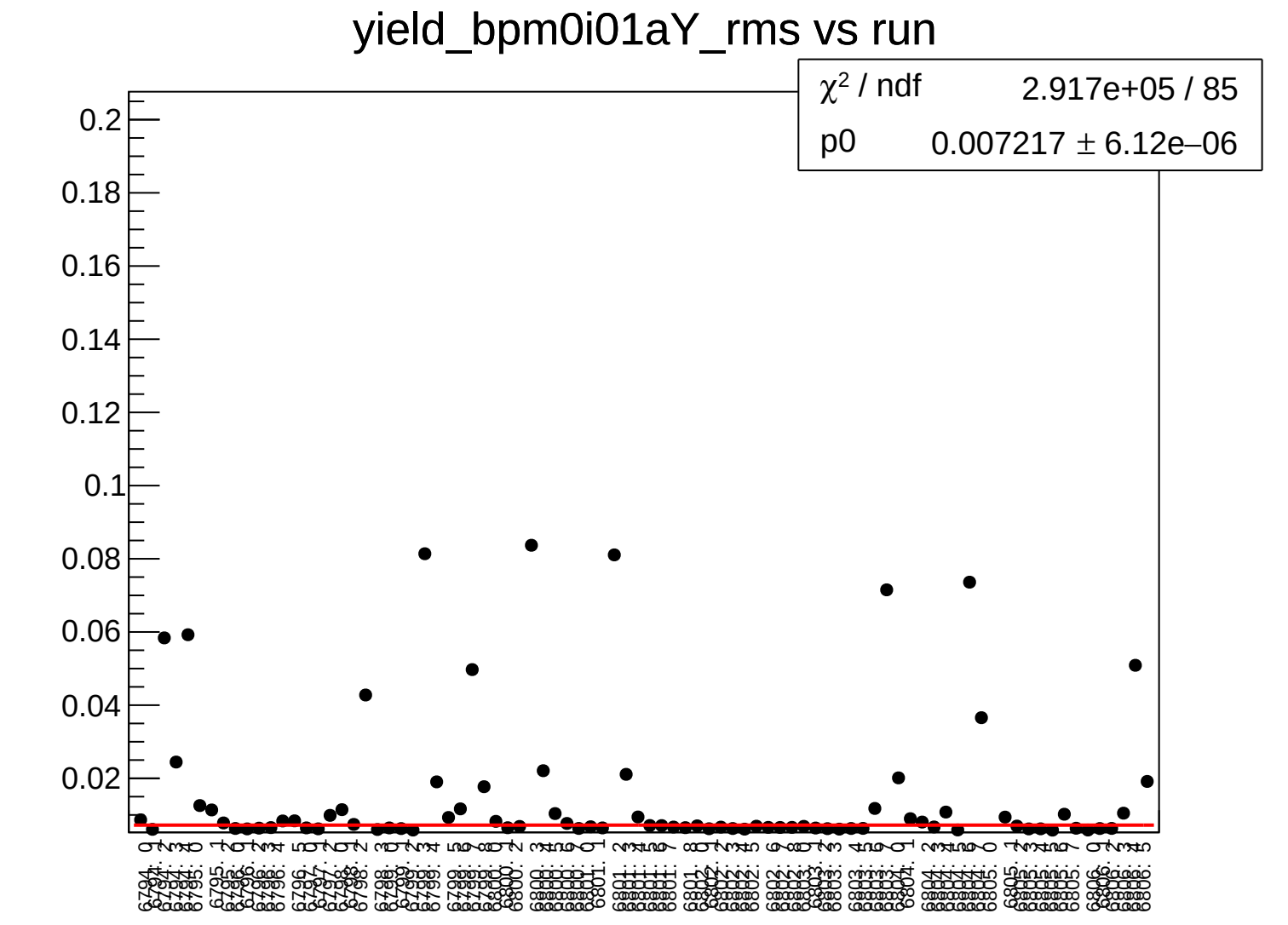

yield_bpm0i01Y_rms vs run
χ² / ndf 3.878e+05 / 85
p0 0.004368 ± 3.839e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

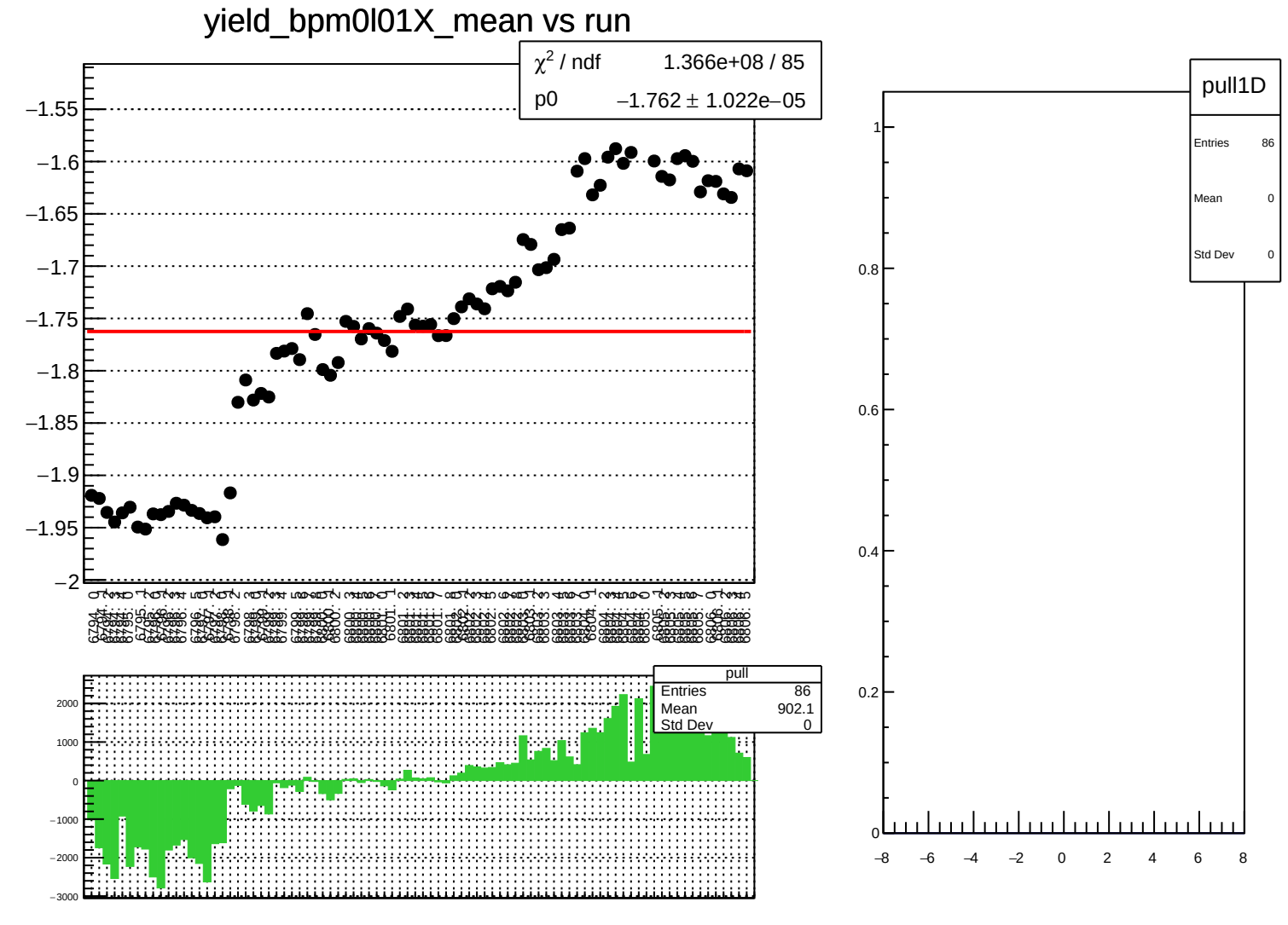

yield_bpm0i01aX_mean vs run
χ² / ndf 1.8e+07 / 85
p0 −1.598 ± 1.079e−05
−1.5
−1.55
−1.6
−1.65
−1.7
pull
Entries 86
Mean 378.7
Std Dev 0
1000
500
0
−500
−1000

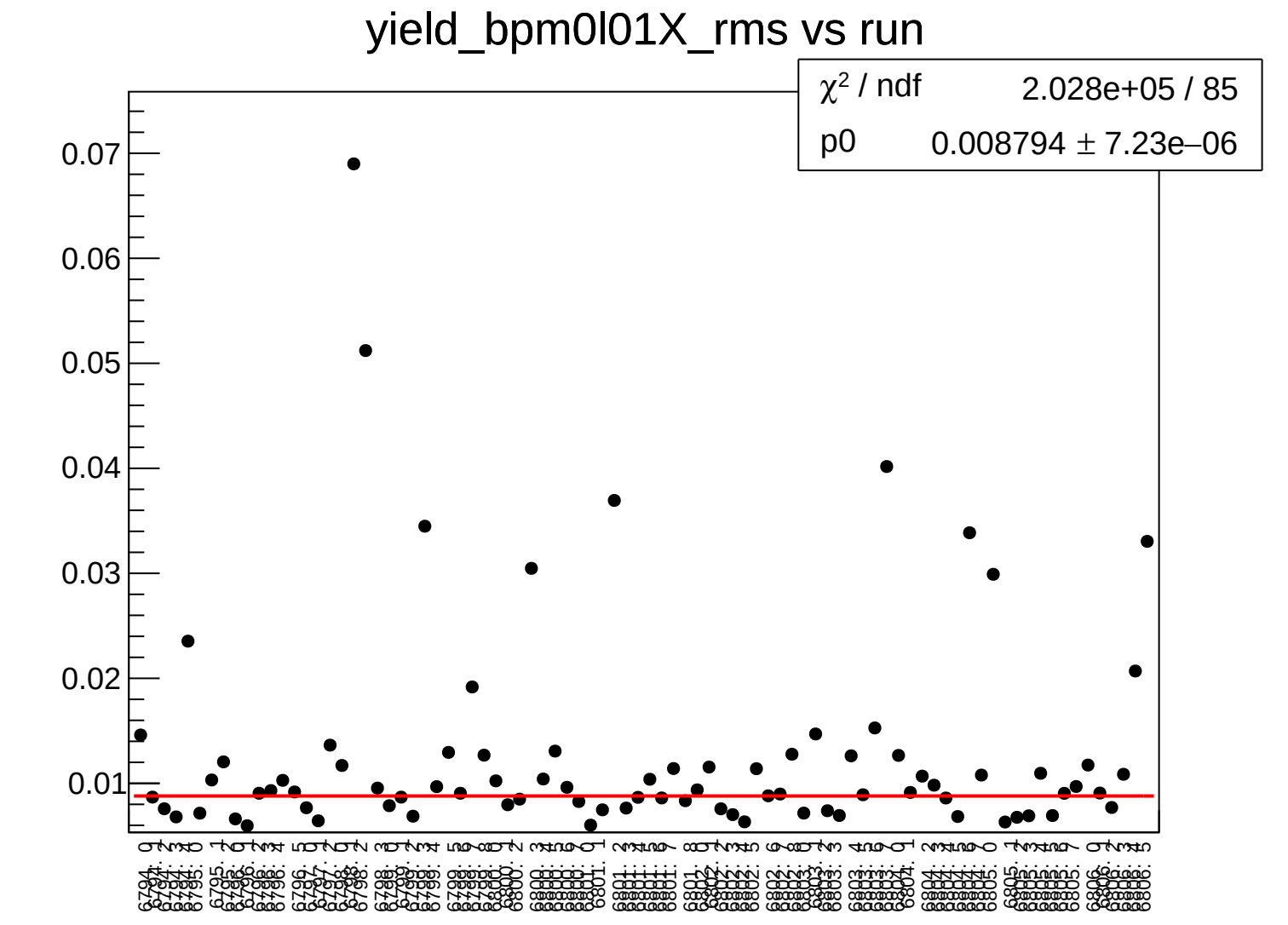

pull1D
Entries 86
Mean −2.656
Std Dev 4.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

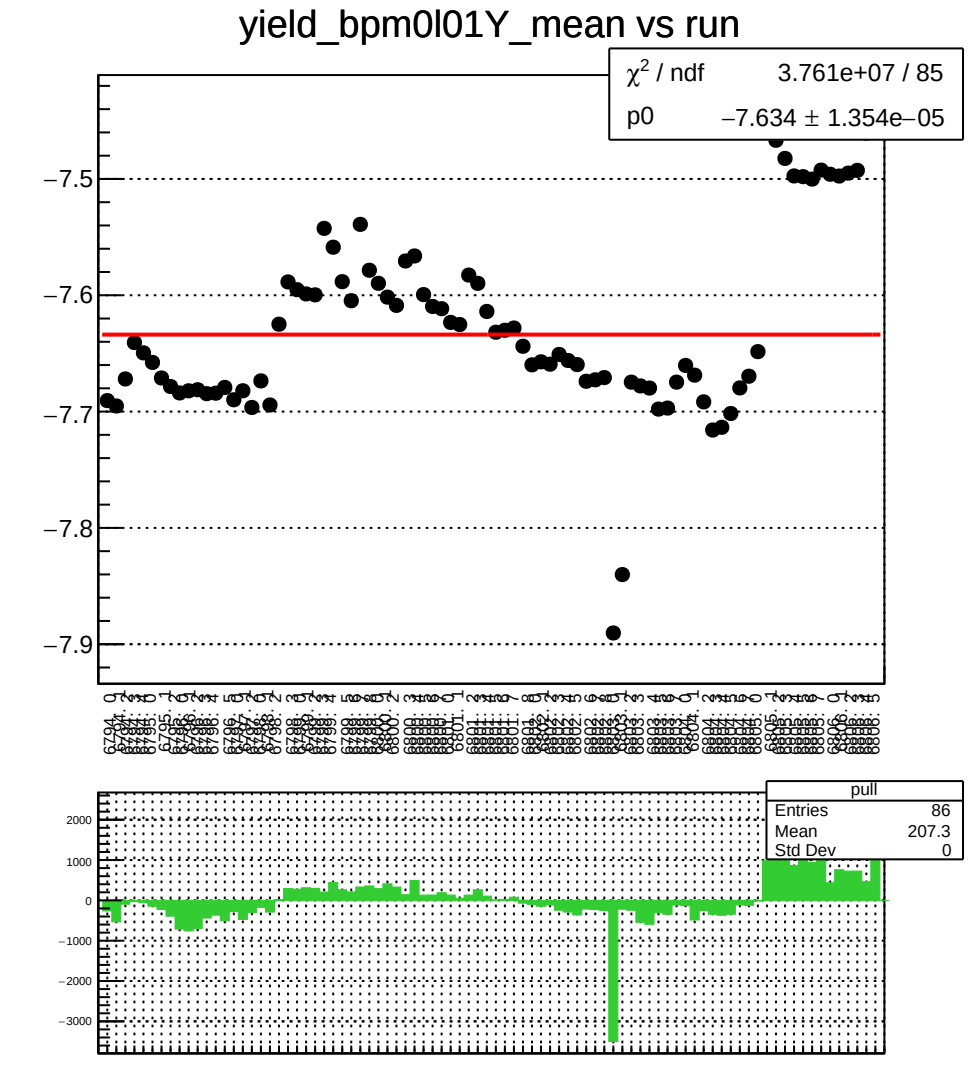

yield_bpm0i01aX_rms vs run
χ² / ndf 1.311e+05 / 85
p0 0.009503 ± 7.63e−06
0.06
0.05
0.04
0.03
0.02
0.01

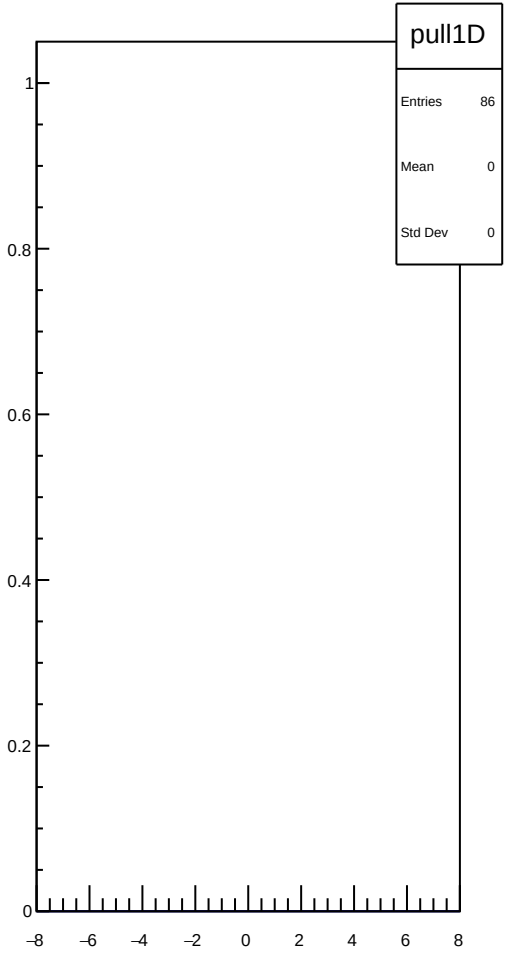

yield_bpm0i01aY_mean vs run
χ² / ndf 6.781e+08 / 85
p0 1.13 ± 8.655e−06
pull
Entries 86
Mean −3484
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

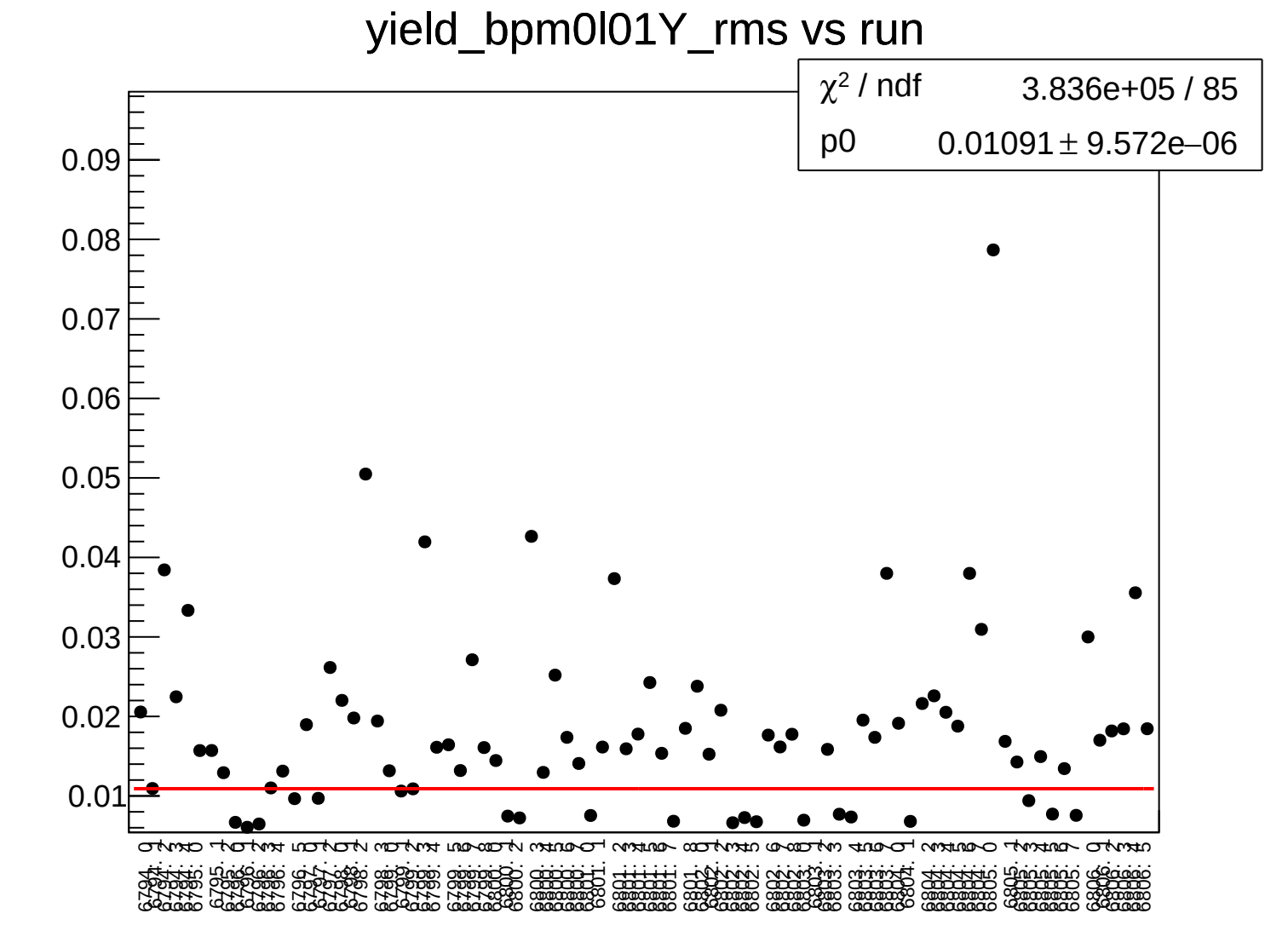

yield_bpm0i01aY_rms vs run
χ² / ndf 2.917e+05 / 85
p0 0.007217 ± 6.12e–06
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

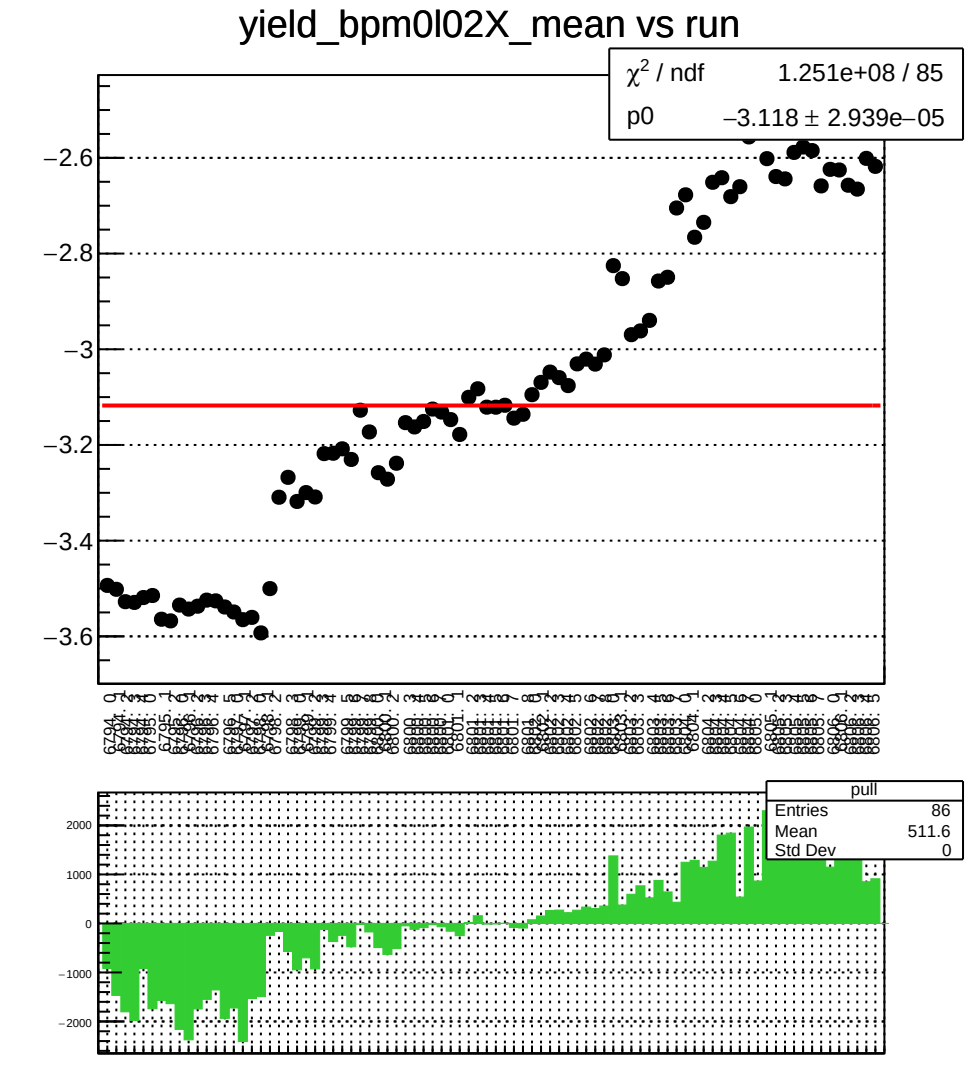

yield_bpm0l01X_mean vs run
χ² / ndf 1.366e+08 / 85
p0 −1.762 ± 1.022e−05
−1.55
−1.6
−1.65
−1.7
−1.75
−1.8
−1.85
−1.9
−1.95
−2
pull
Entries 86
Mean 902.1
Std Dev 0
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

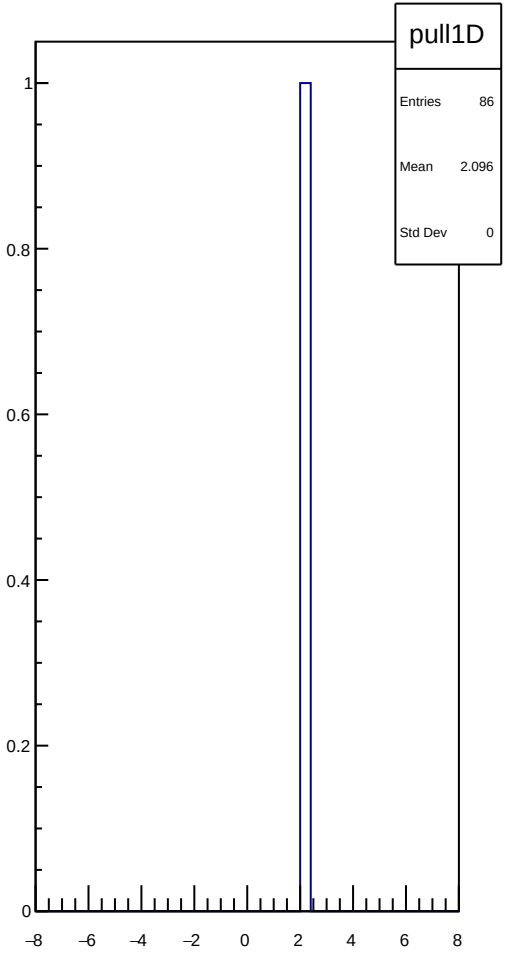

yield_bpm0l01X_rms vs run
χ² / ndf 2.028e+05 / 85
p0 0.008794 ± 7.23e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

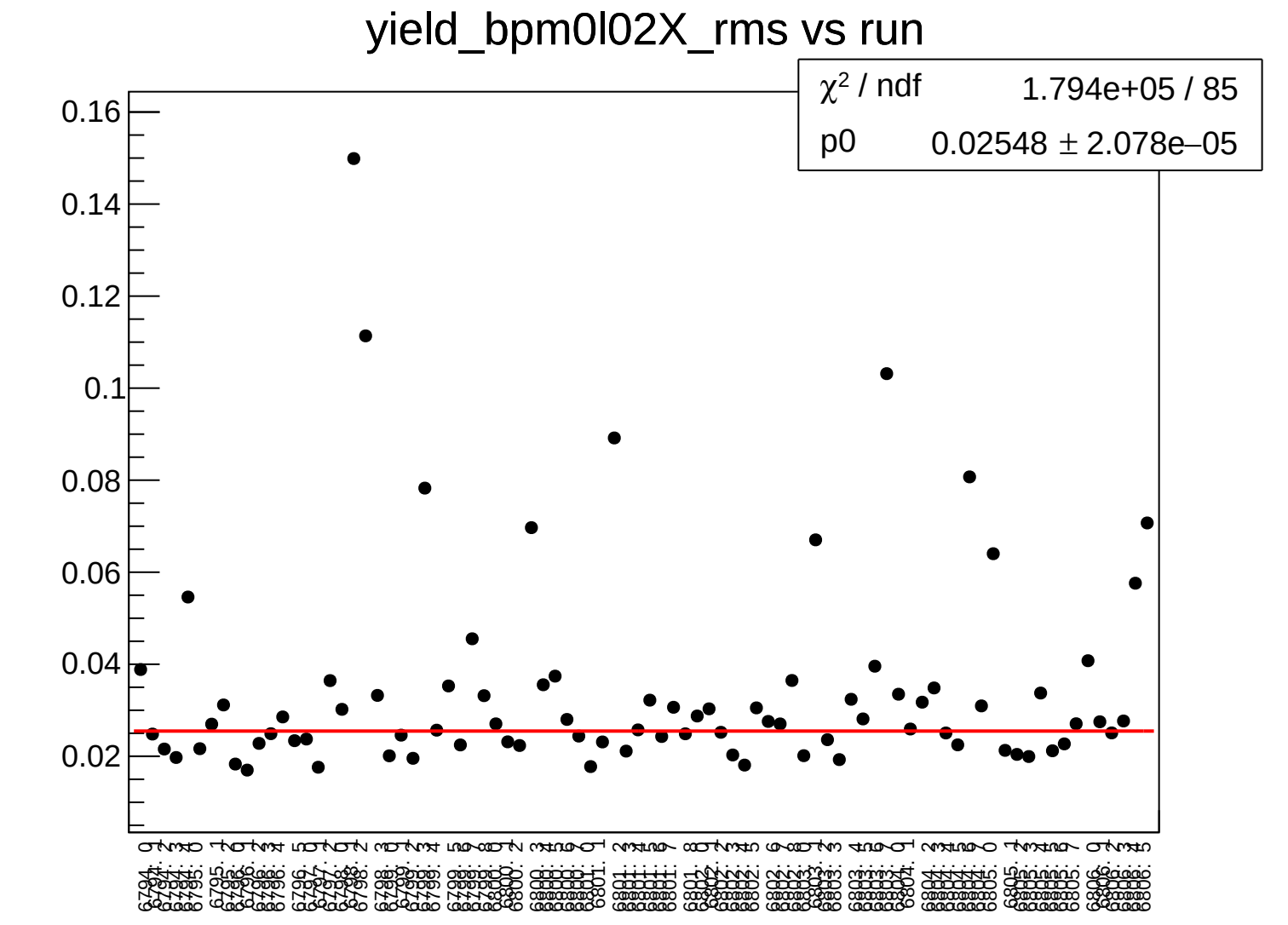

yield_bpm0l01Y_mean vs run
χ² / ndf 3.761e+07 / 85
p0 −7.634 ± 1.354e−05
−7.5
−7.6
−7.7
−7.8
−7.9
pull
Entries 86
Mean 207.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000

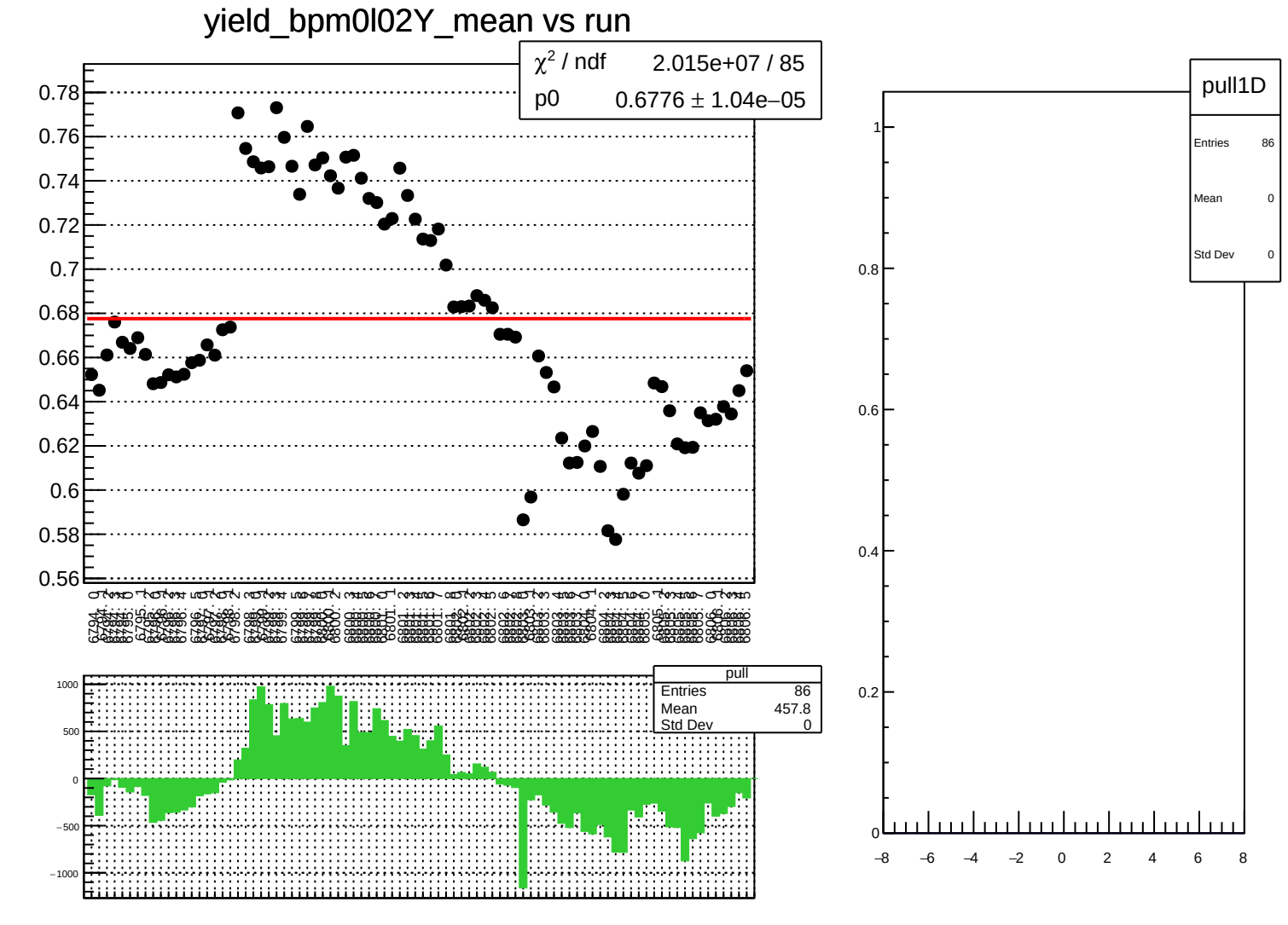

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

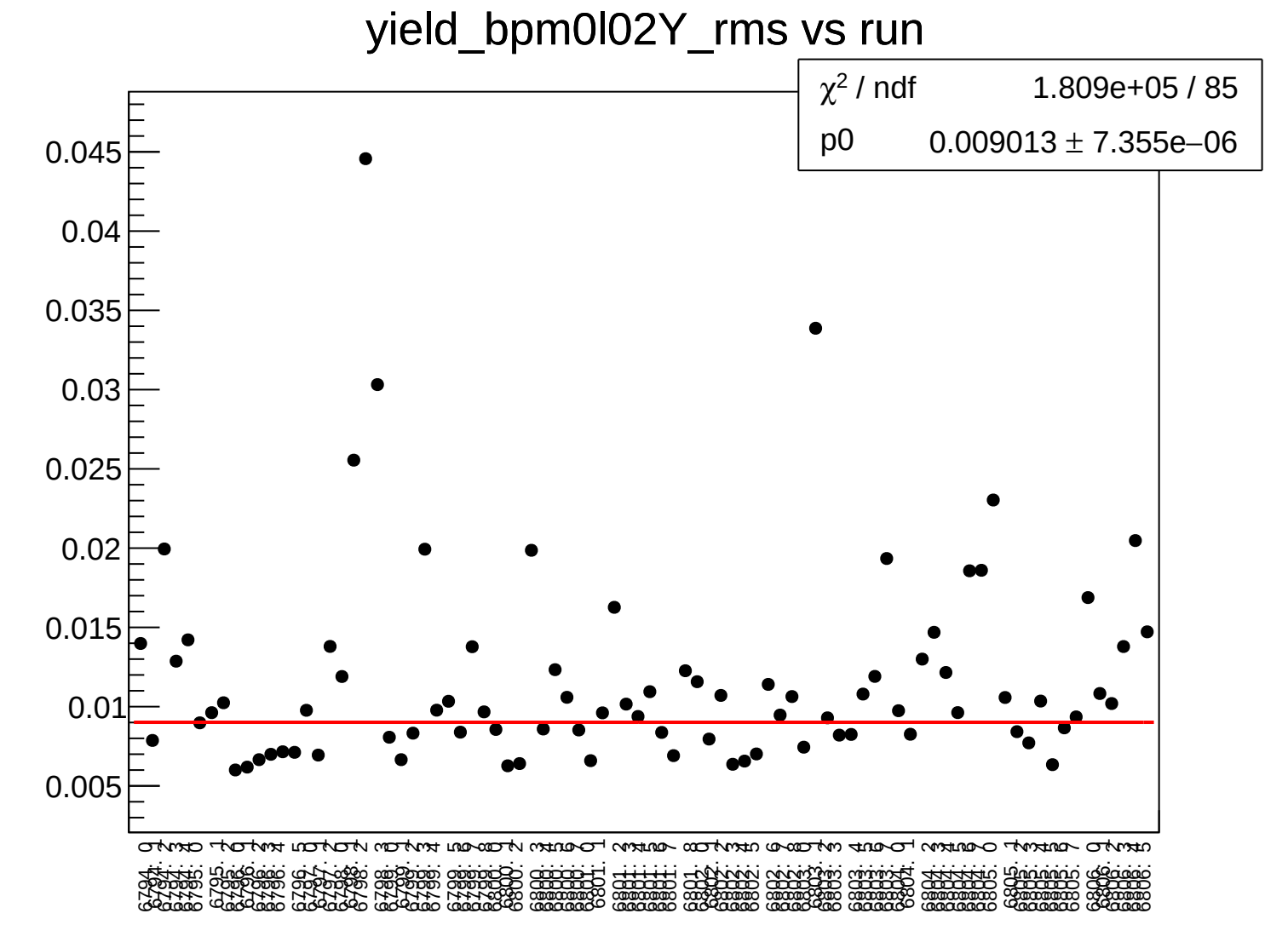

yield_bpm0l01Y_rms vs run
χ² / ndf 3.836e+05 / 85
p0 0.01091 ± 9.572e–06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

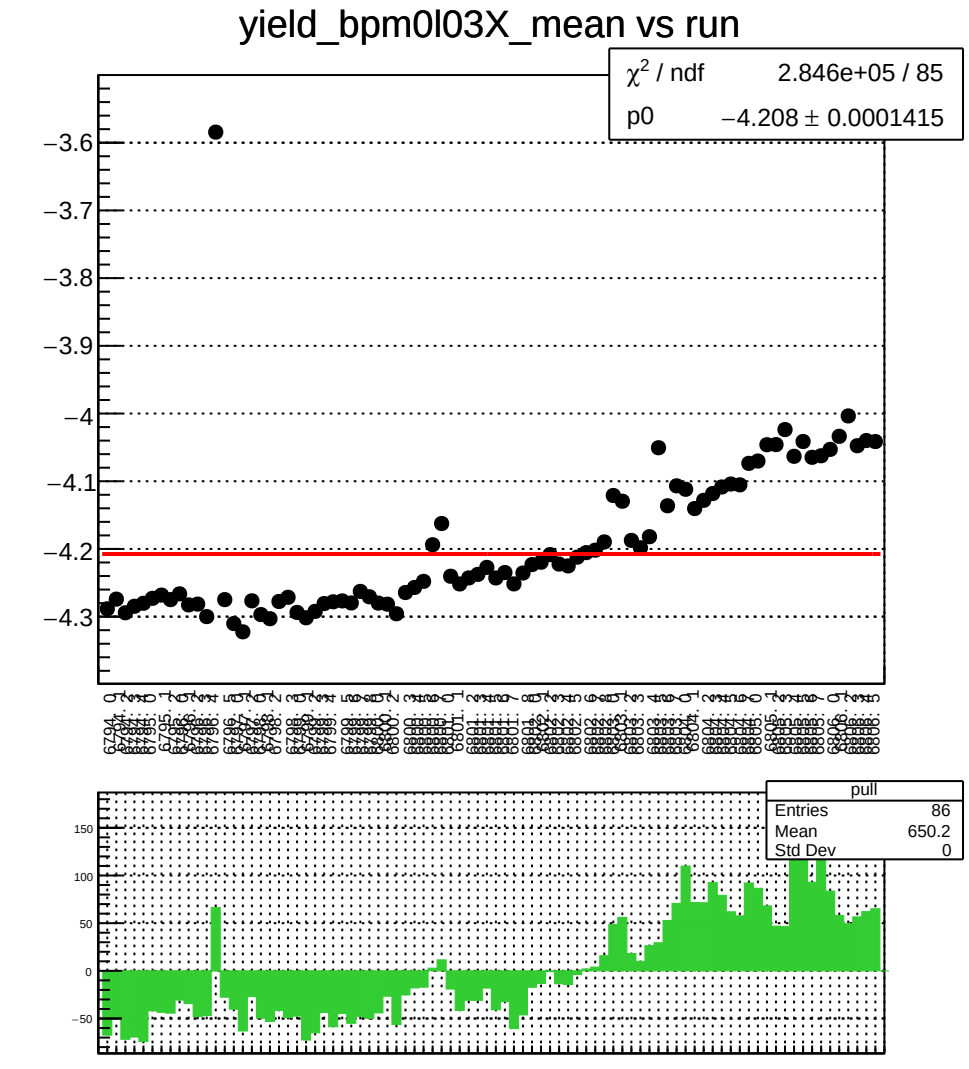

yield_bpm0l02X_mean vs run
χ² / ndf 1.251e+08 / 85
p0 −3.118 ± 2.939e−05
−2.6
−2.8
−3
−3.2
−3.4
−3.6
pull
Entries 86
Mean 511.6
Std Dev 0
2000
1000
0
−1000
−2000

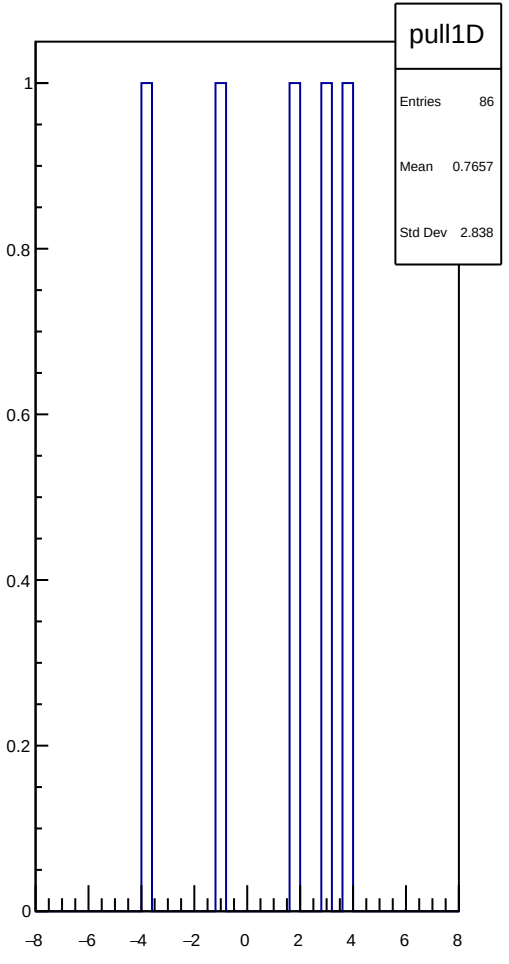

pull1D
Entries 86
Mean 2.096
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

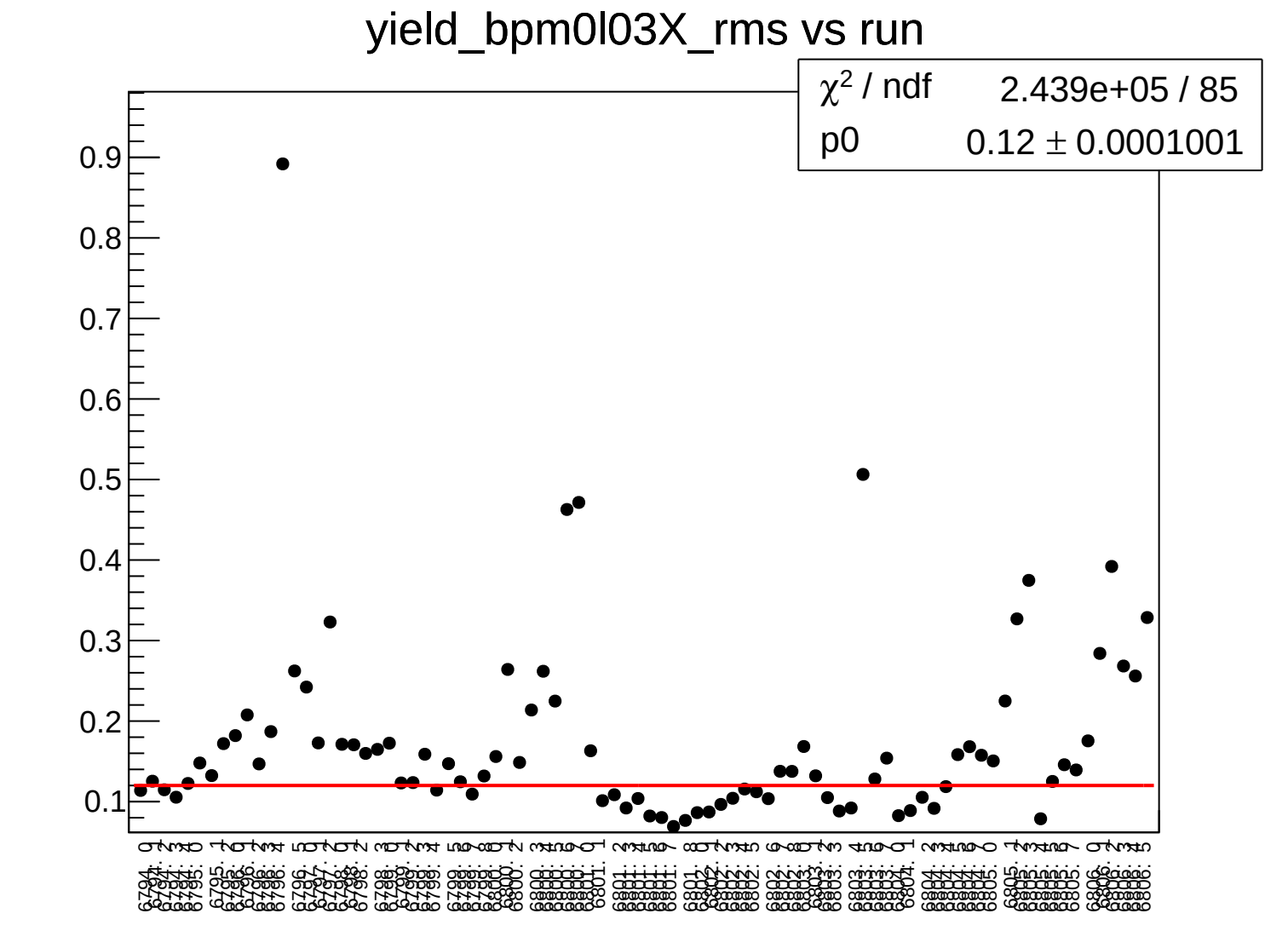

yield_bpm0l02X_rms vs run
χ² / ndf 1.794e+05 / 85
p0 0.02548 ± 2.078e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

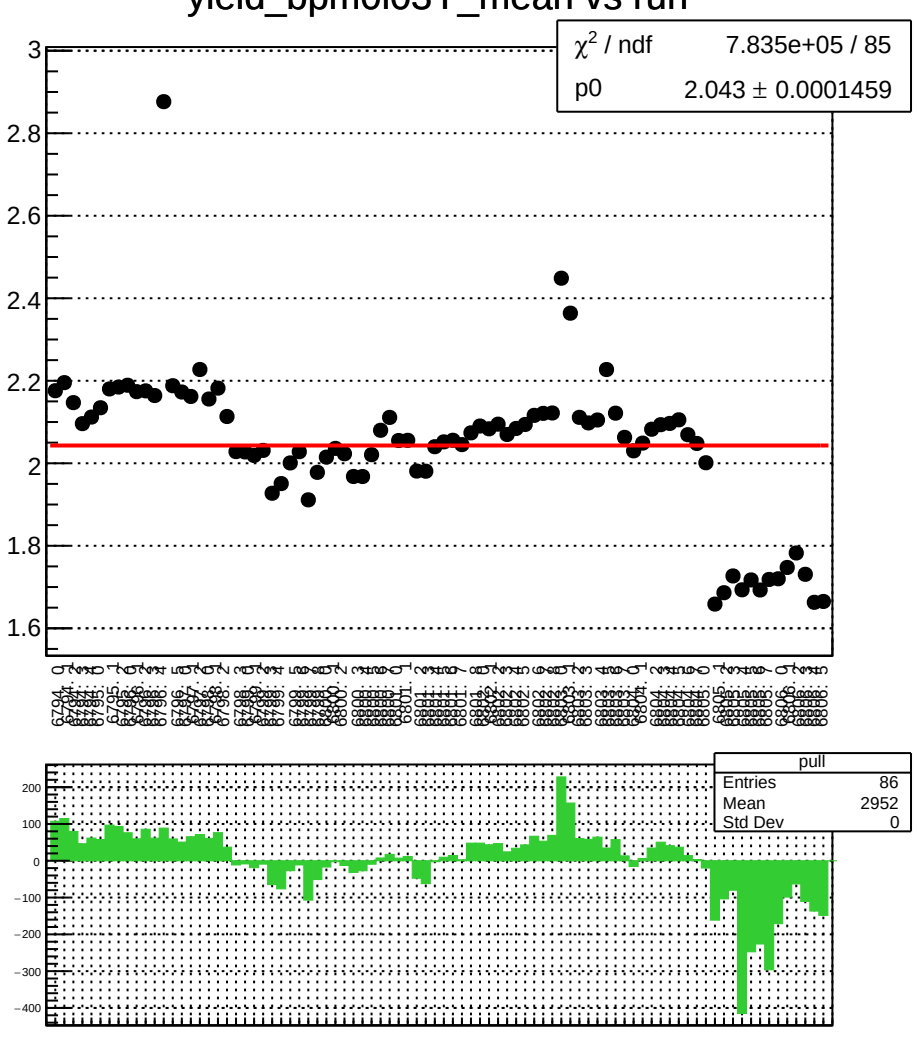

yield_bpm0l02Y_mean vs run
χ² / ndf 2.015e+07 / 85
p0 0.6776 ± 1.04e−05
pull
Entries 86
Mean 457.8
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

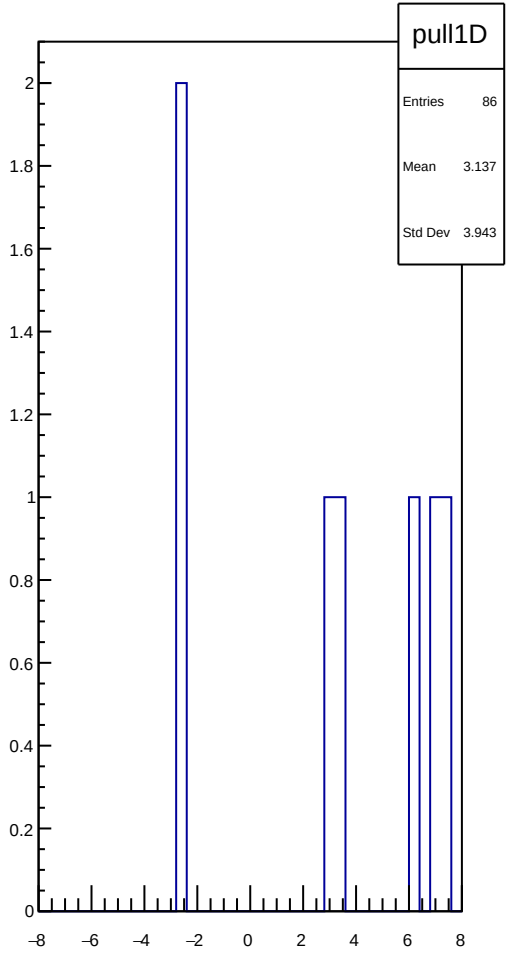

yield_bpm0l02Y_rms vs run
χ² / ndf 1.809e+05 / 85
p0 0.009013 ± 7.355e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

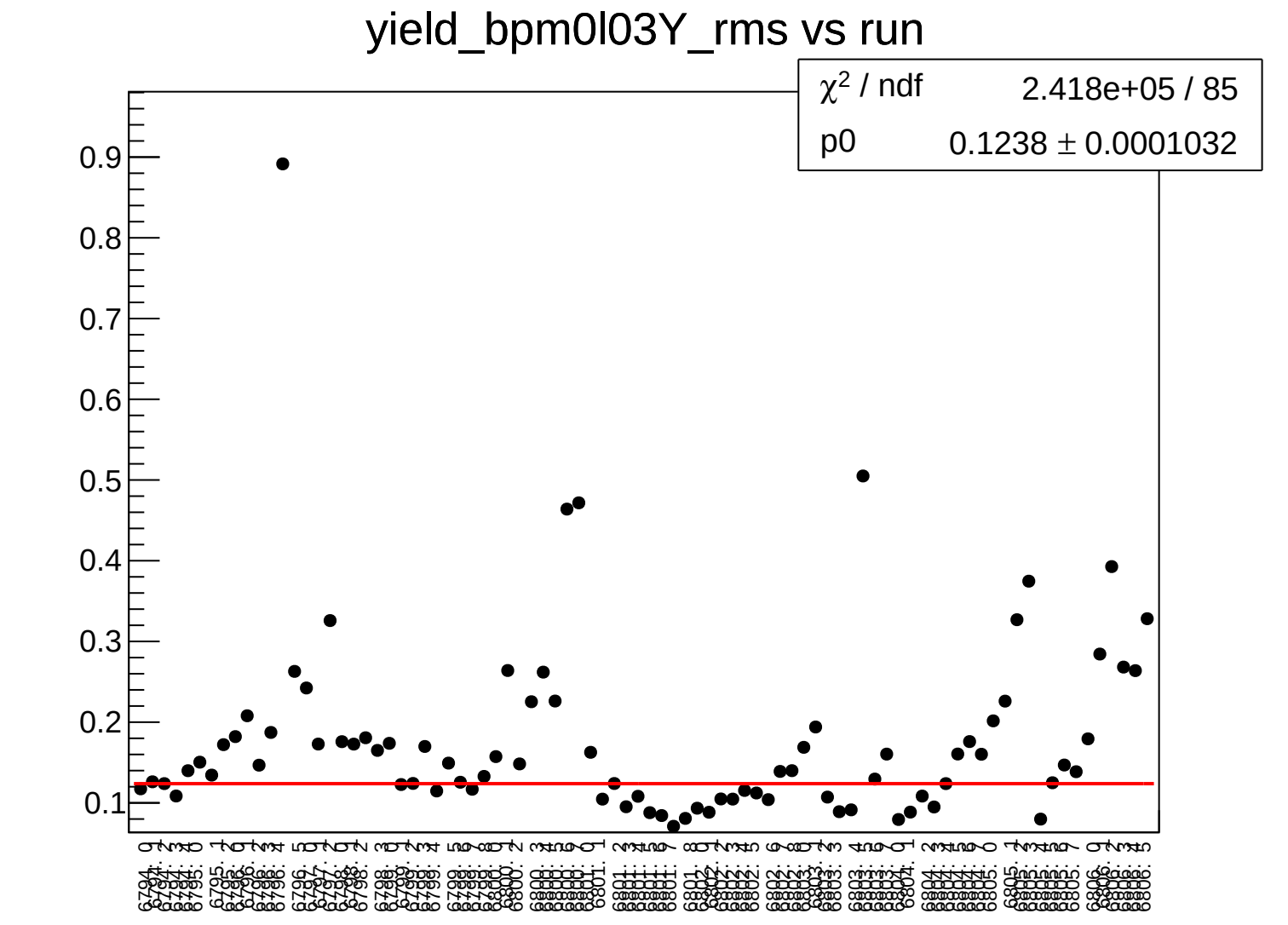

yield_bpm0l03X_mean vs run
χ² / ndf 2.846e+05 / 85
p0 −4.208 ± 0.0001415
−3.6
−3.7
−3.8
−3.9
−4
−4.1
−4.2
−4.3
pull
Entries 86
Mean 650.2
Std Dev 0
150
100
50
0
−50

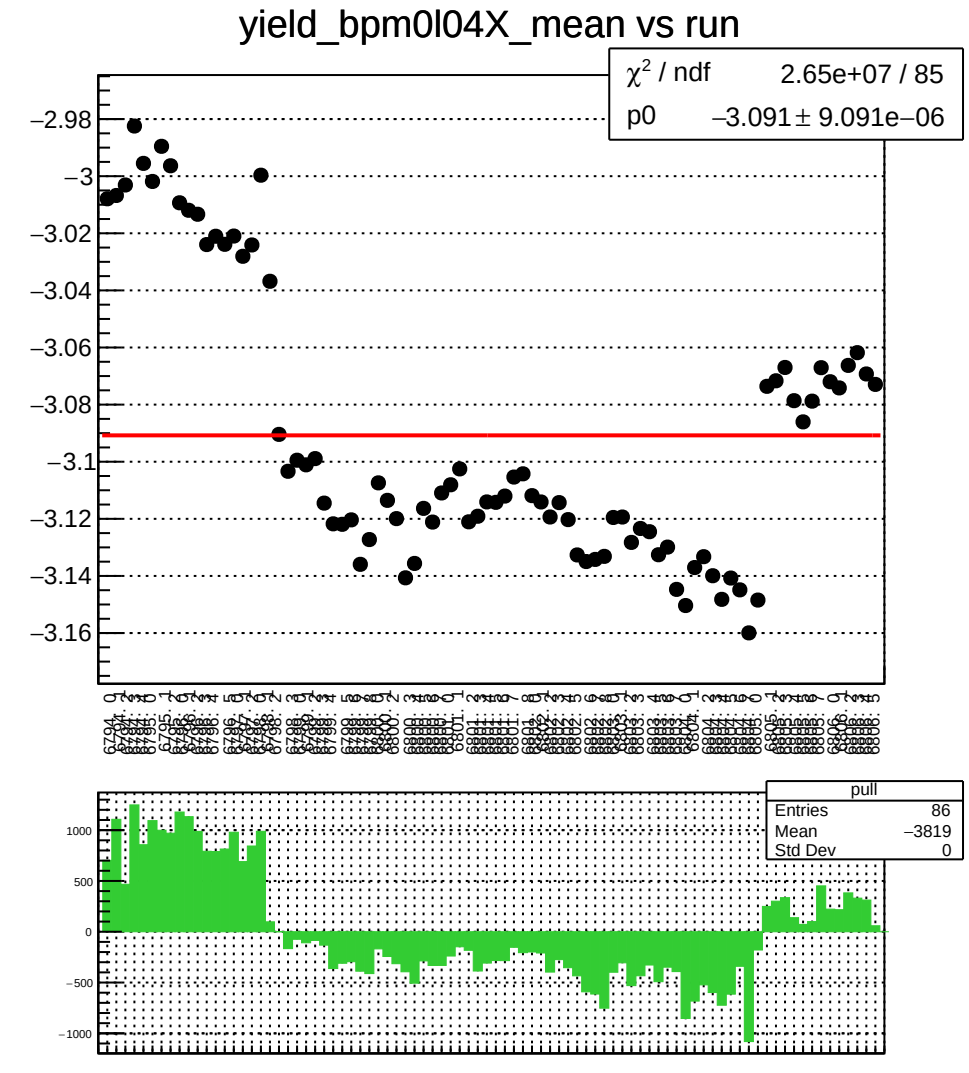

pull1D
Entries 86
Mean 0.7657
Std Dev 2.838
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

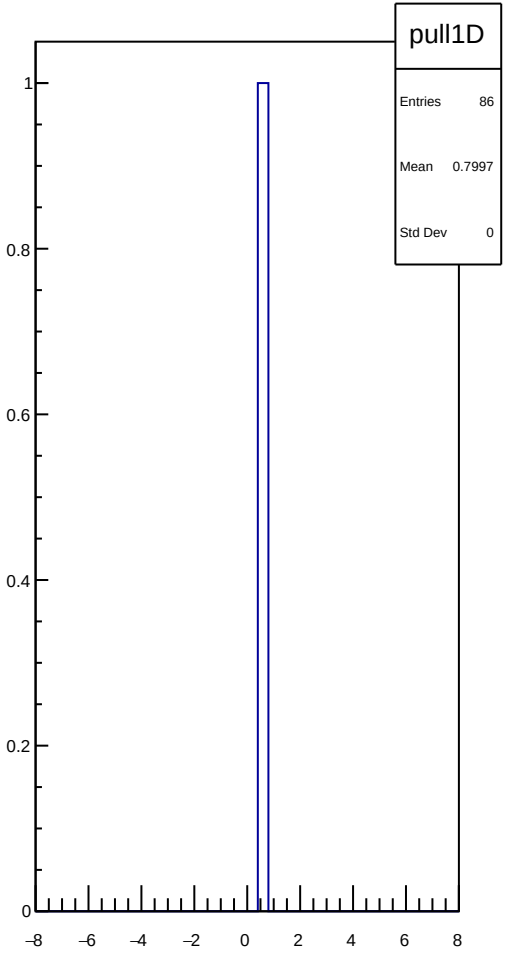

yield_bpm0l03X_rms vs run
χ² / ndf 2.439e+05 / 85
p0 0.12 ± 0.0001001
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

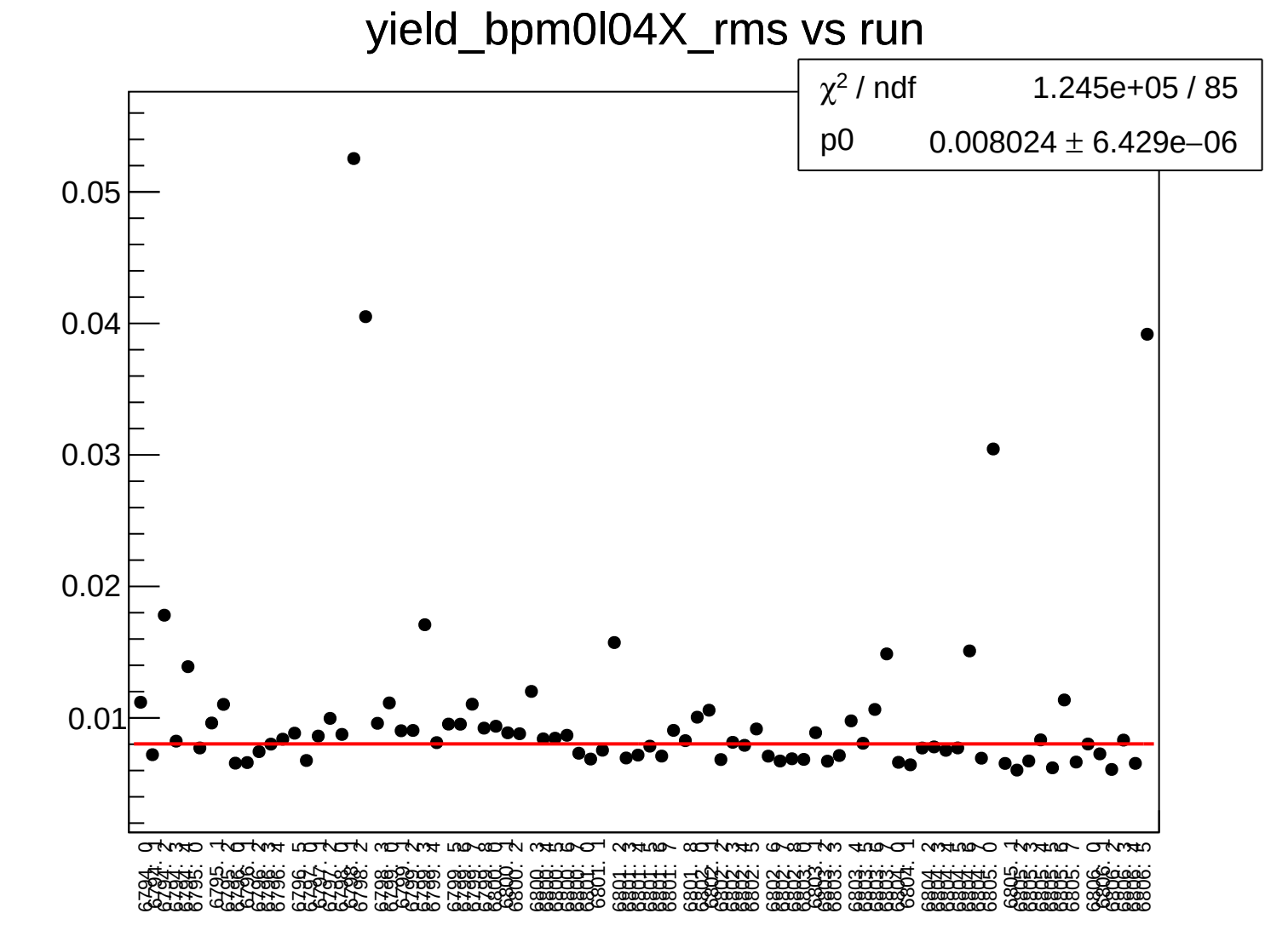

yield_bpm0l03Y_mean vs run
χ² / ndf 7.835e+05 / 85
p0 2.043 ± 0.0001459
pull
Entries 86
Mean 2952
Std Dev 0

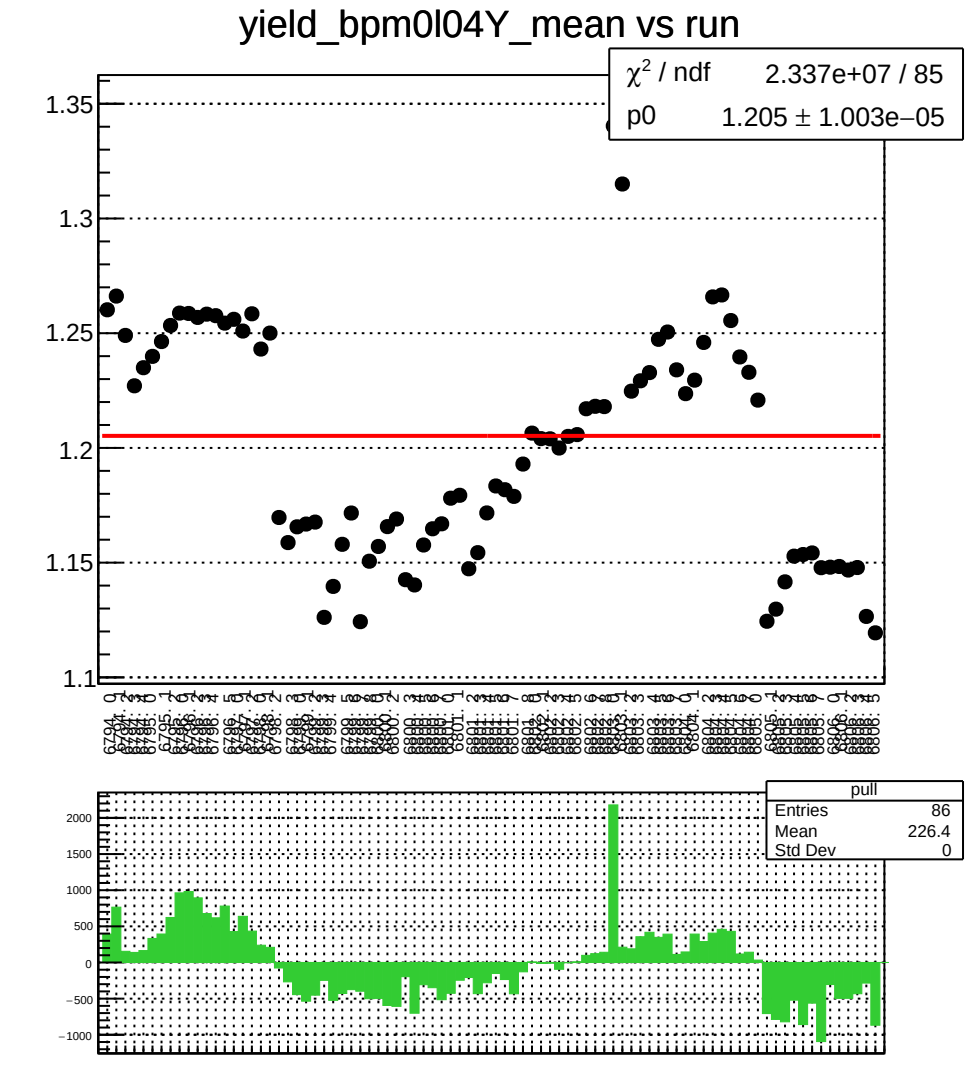

pull1D
Entries 86
Mean 3.137
Std Dev 3.943

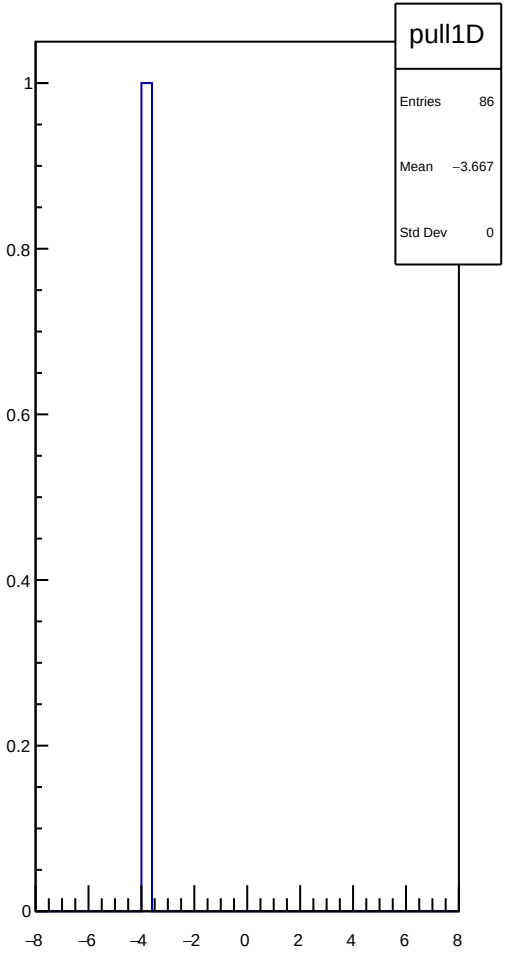

yield_bpm0l03Y_rms vs run
χ² / ndf 2.418e+05 / 85
p0 0.1238 ± 0.0001032
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

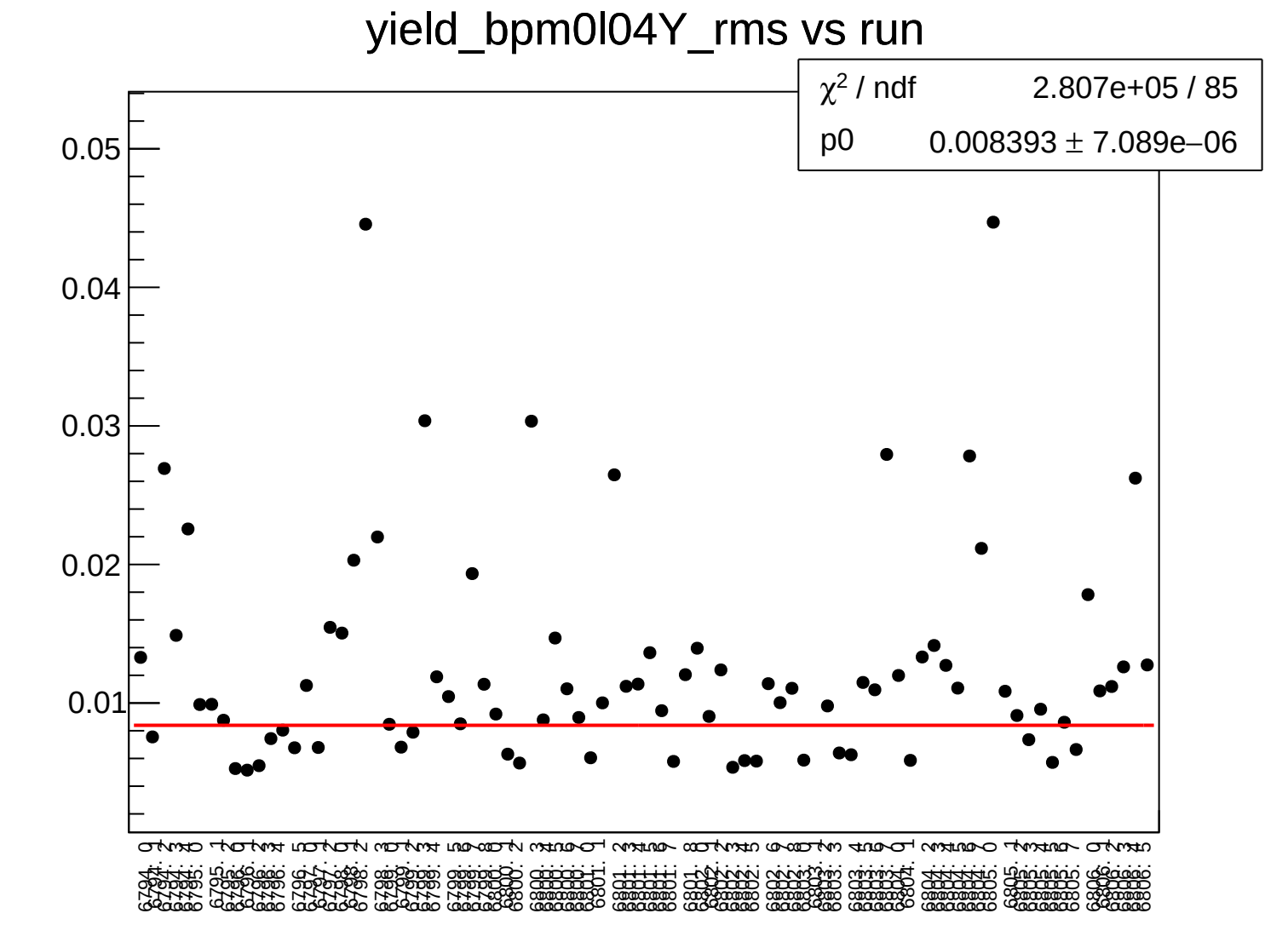

yield_bpm0l04X_mean vs run
χ² / ndf 2.65e+07 / 85
p0 −3.091 ± 9.091e−06
−2.98
−3
−3.02
−3.04
−3.06
−3.08
−3.1
−3.12
−3.14
−3.16
pull
Entries 86
Mean −3819
Std Dev 0
1000
500
0
−500
−1000

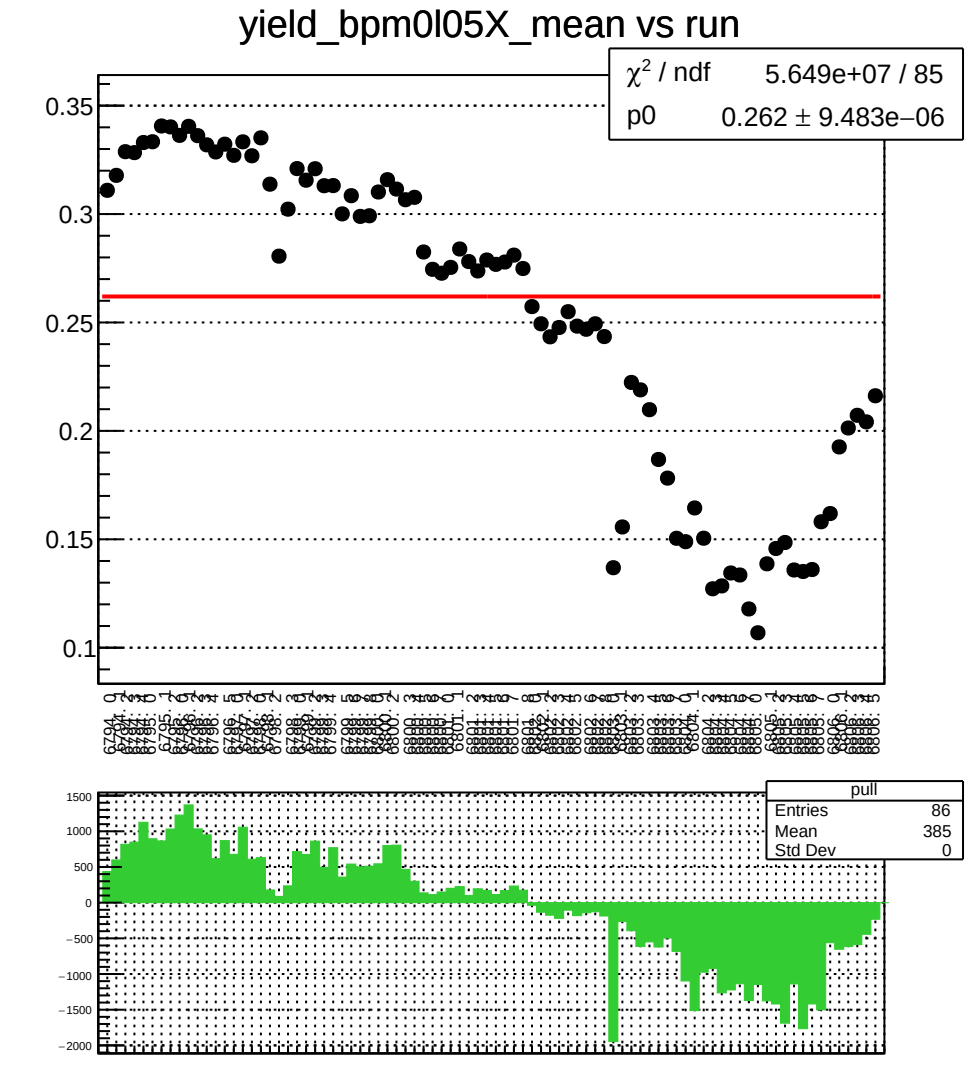

pull1D
Entries 86
Mean 0.7997
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

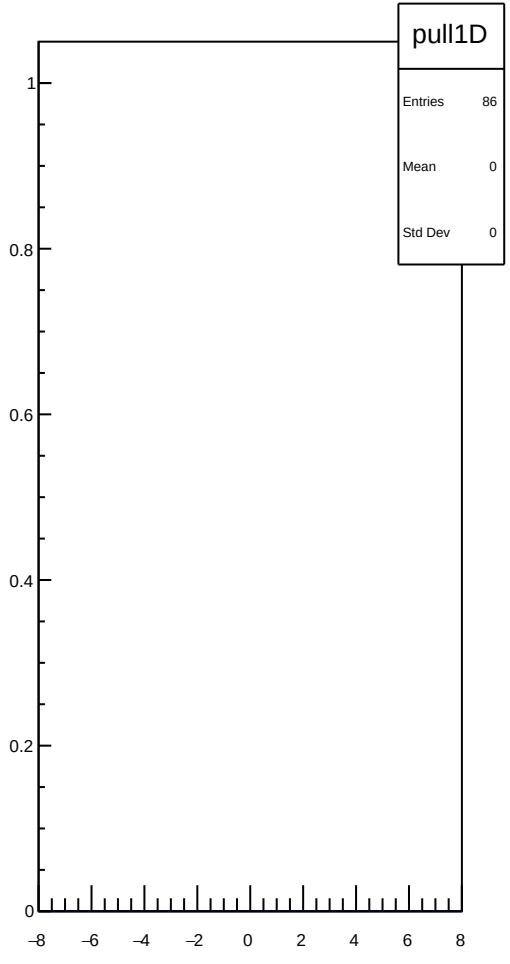

yield_bpm0l04X_rms vs run
χ^2 / ndf 1.245e+05 / 85
p0 0.008024 ± 6.429e−06
0.05
0.04
0.03
0.02
0.01

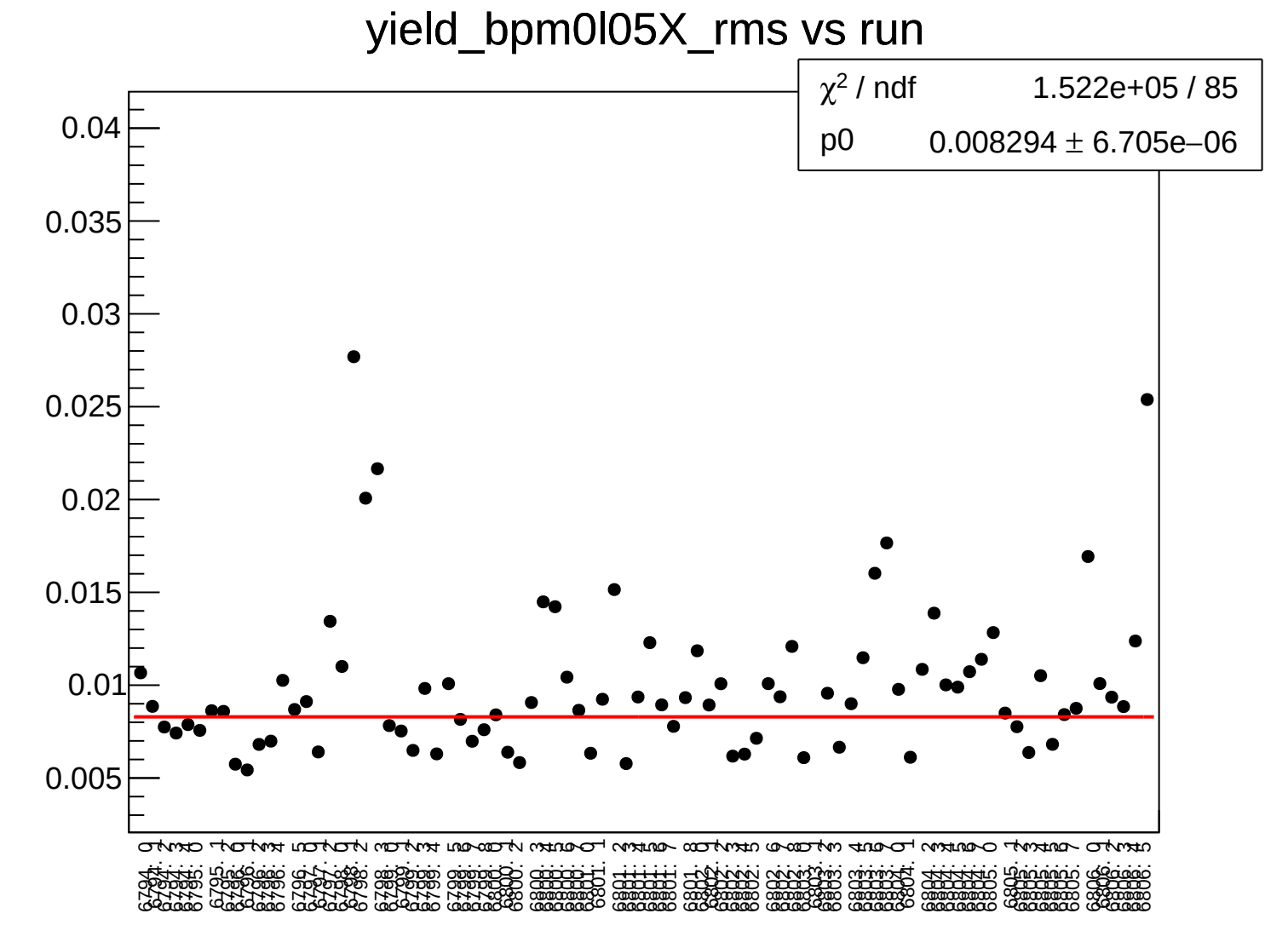

yield_bpm0l04Y_mean vs run
χ² / ndf 2.337e+07 / 85
p0 1.205 ± 1.003e−05
1.35
1.3
1.25
1.2
1.15
1.1
pull
Entries 86
Mean 226.4
Std Dev 0
2000
1500
1000
500
0
−500
−1000

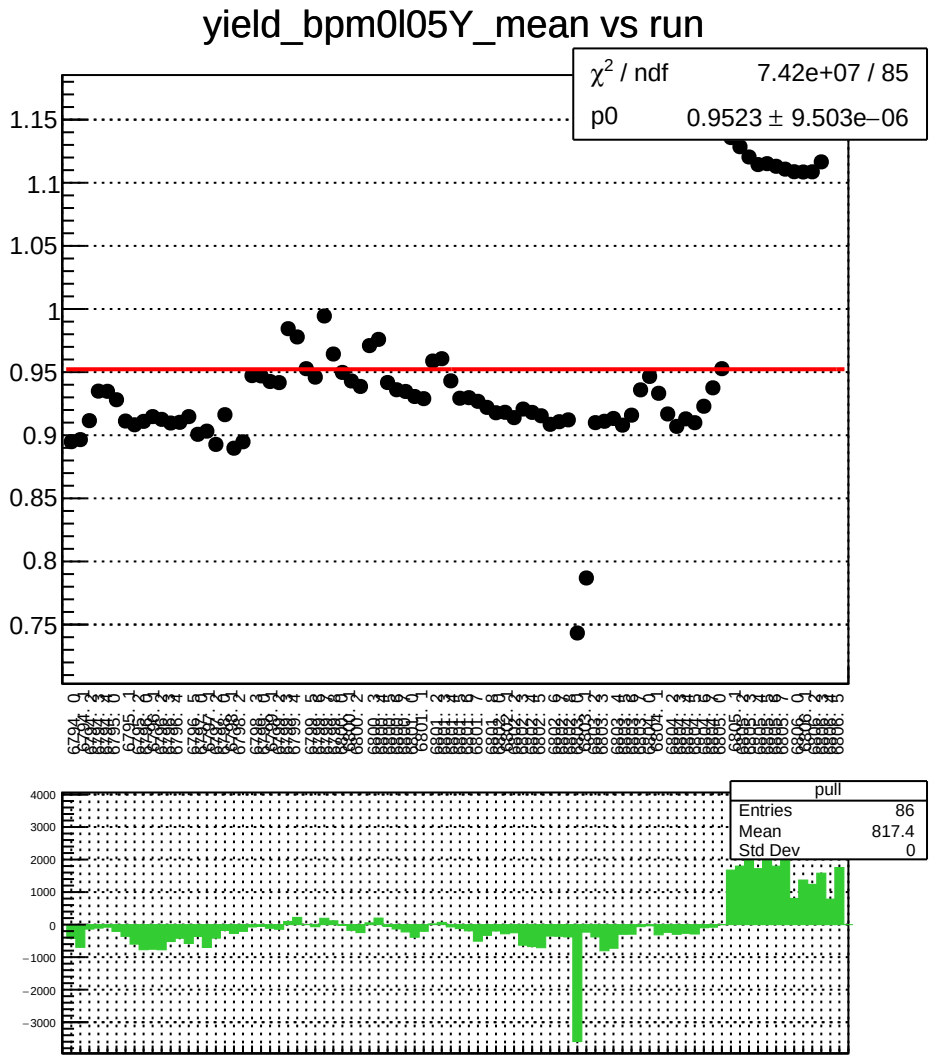

pull1D
Entries 86
Mean −3.667
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

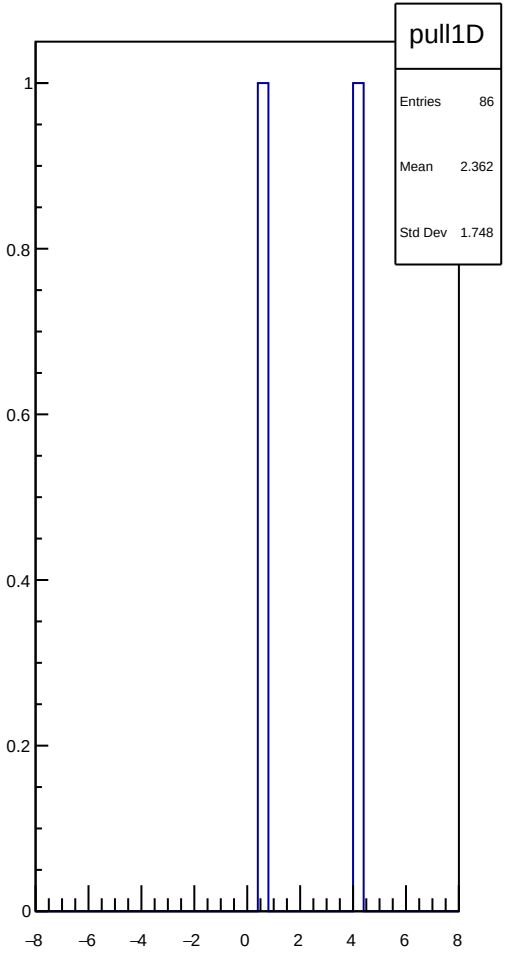

yield_bpm0l04Y_rms vs run
χ² / ndf 2.807e+05 / 85
p0 0.008393 ± 7.089e−06
0.05
0.04
0.03
0.02
0.01

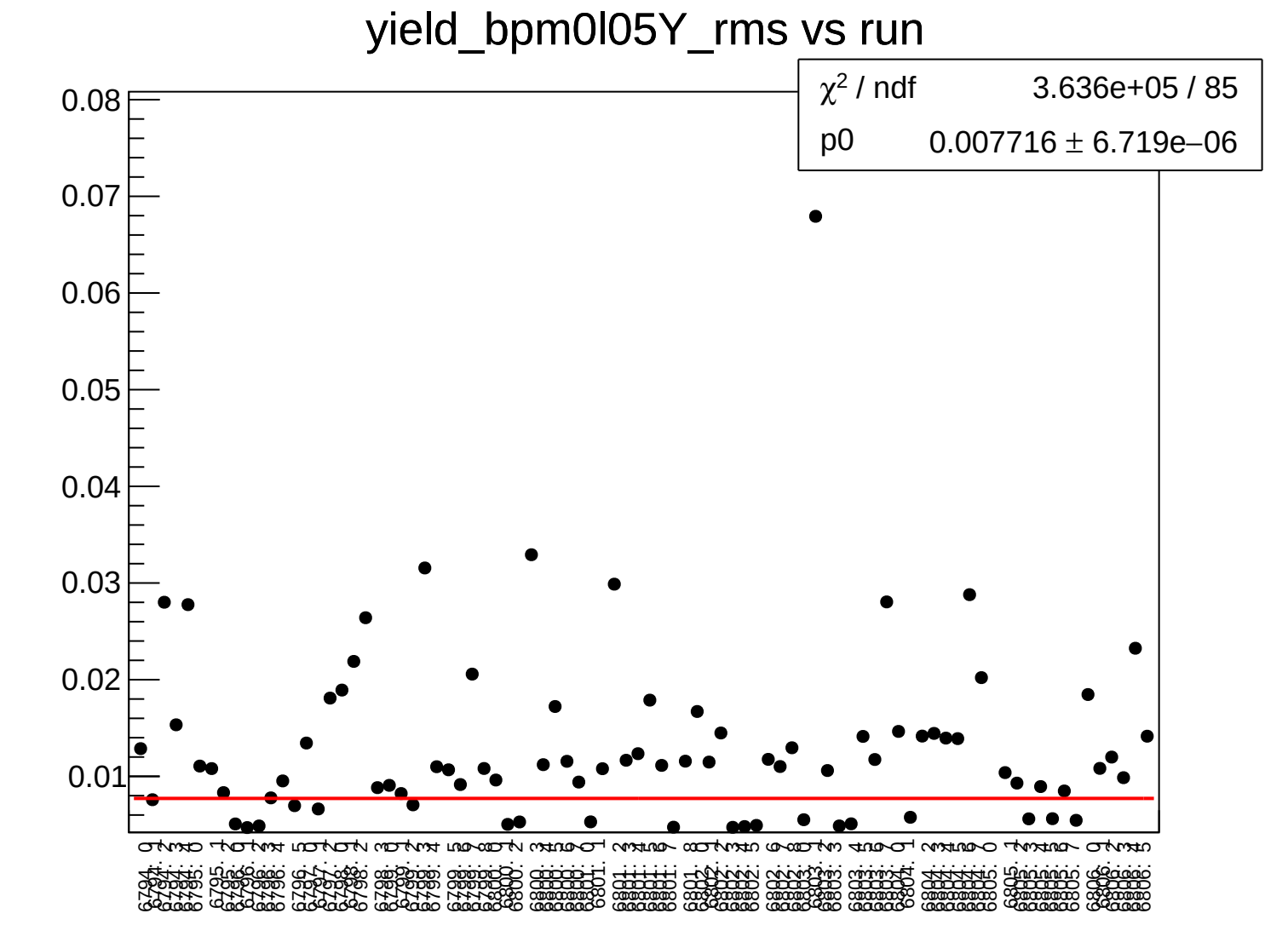

yield_bpm0l05X_mean vs run
χ² / ndf 5.649e+07 / 85
p0 0.262 ± 9.483e−06
0.35
0.3
0.25
0.2
0.15
0.1
pull
Entries 86
Mean 385
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

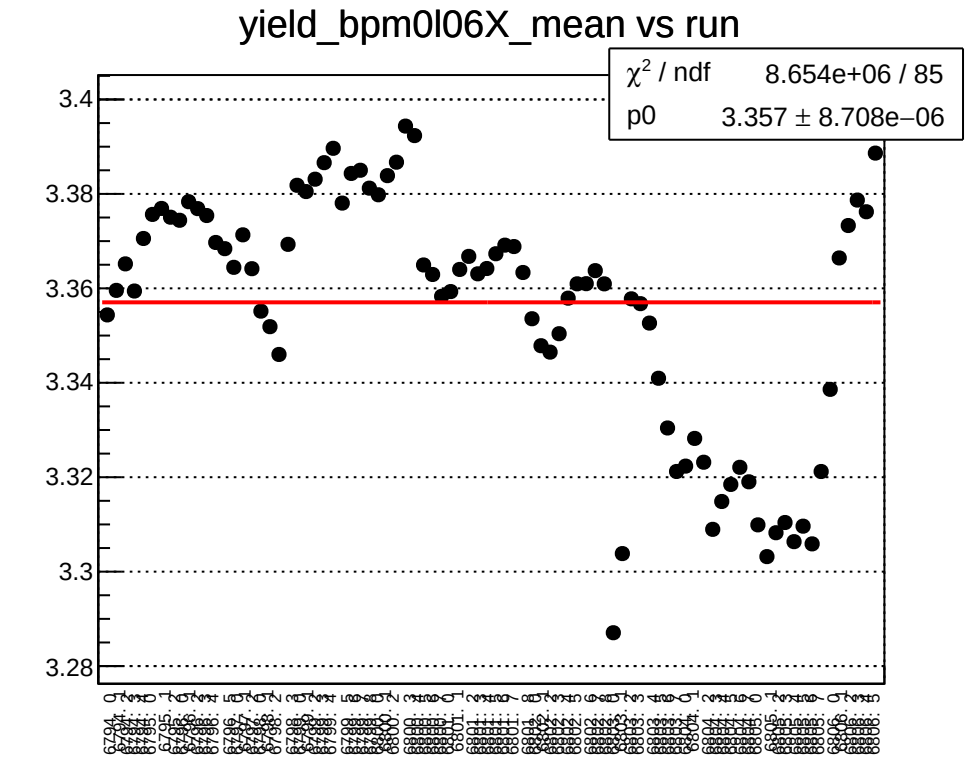

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

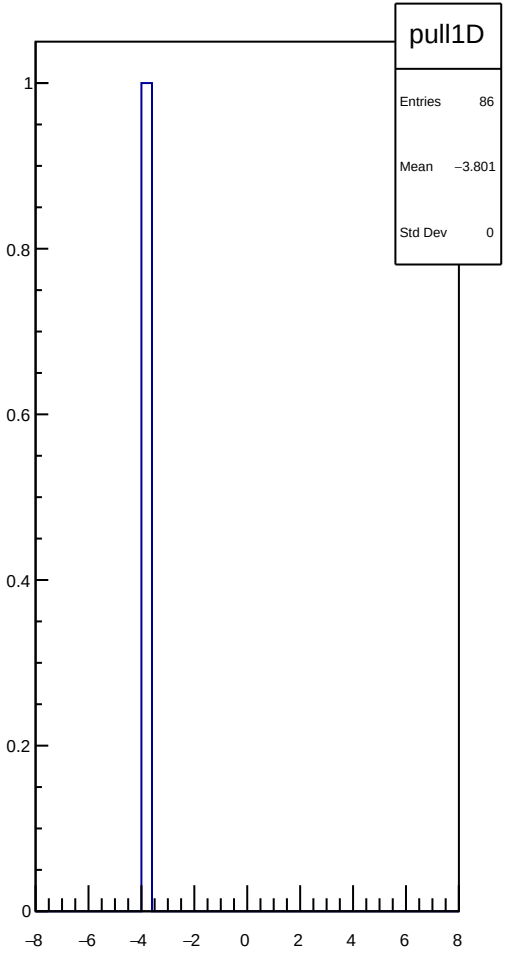

yield_bpm0l05X_rms vs run
χ^2 / ndf 1.522e+05 / 85
p0 0.008294 ± 6.705e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

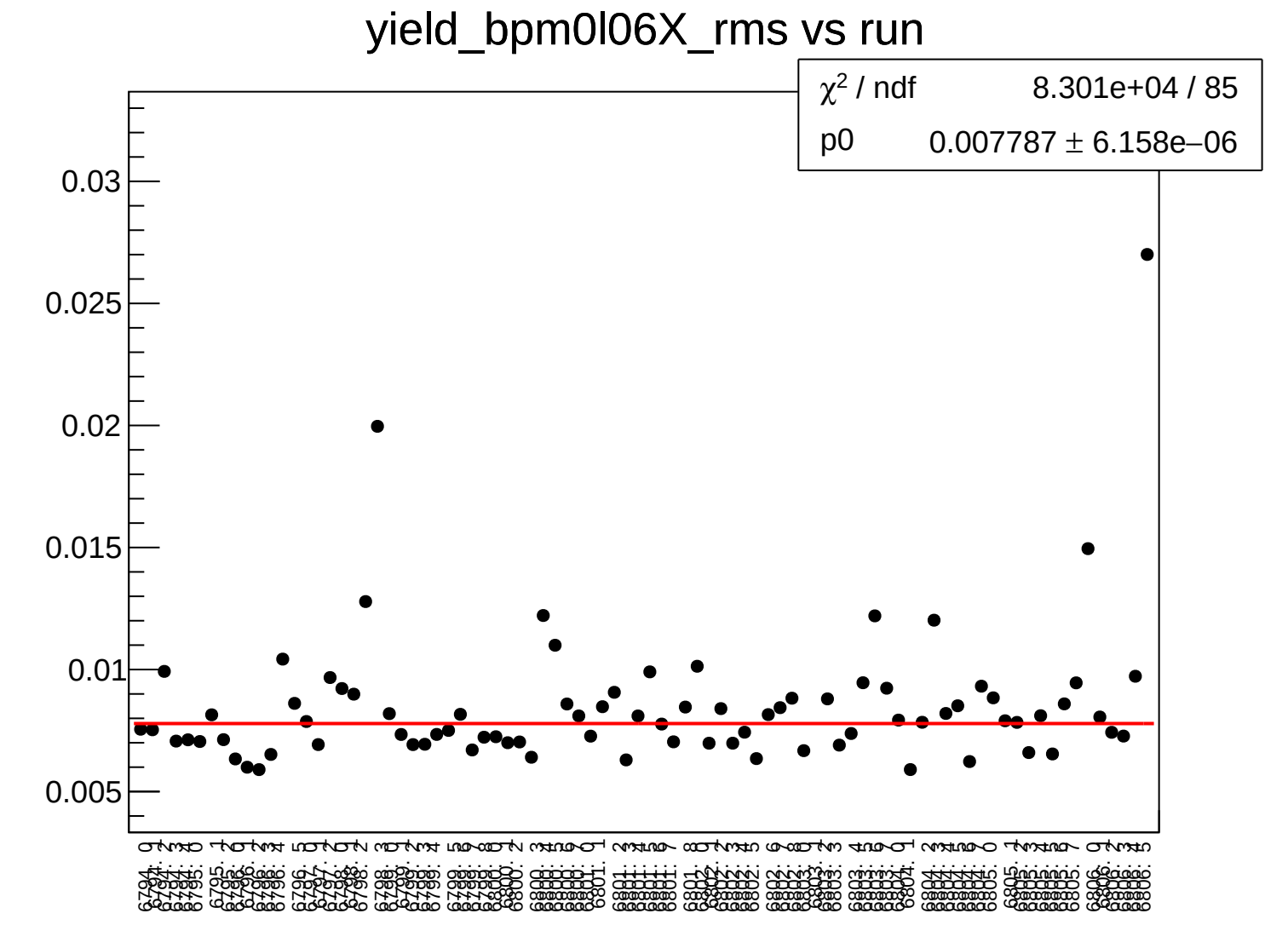

yield_bpm0l05Y_mean vs run
χ² / ndf 7.42e+07 / 85
p0 0.9523 ± 9.503e−06
pull
Entries 86
Mean 817.4
Std Dev 0

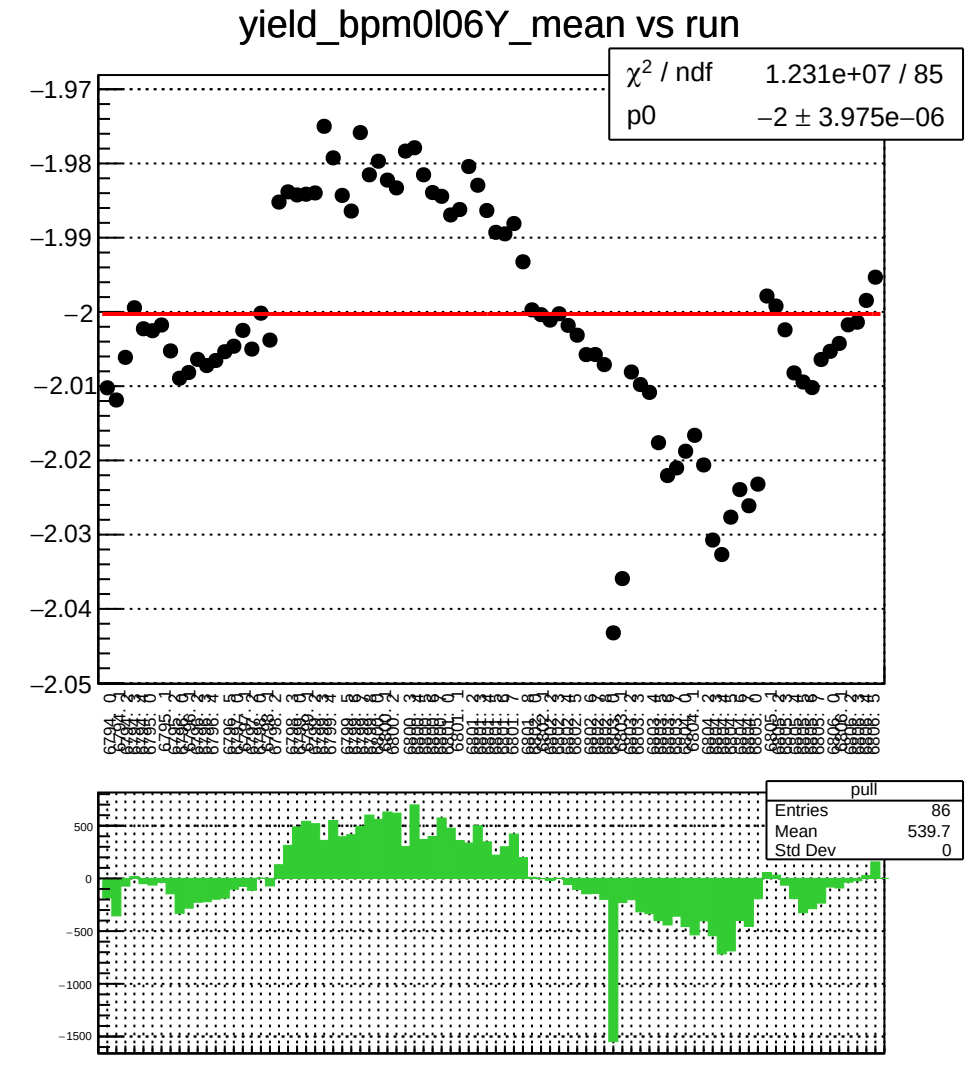

pull1D
Entries 86
Mean 2.362
Std Dev 1.748

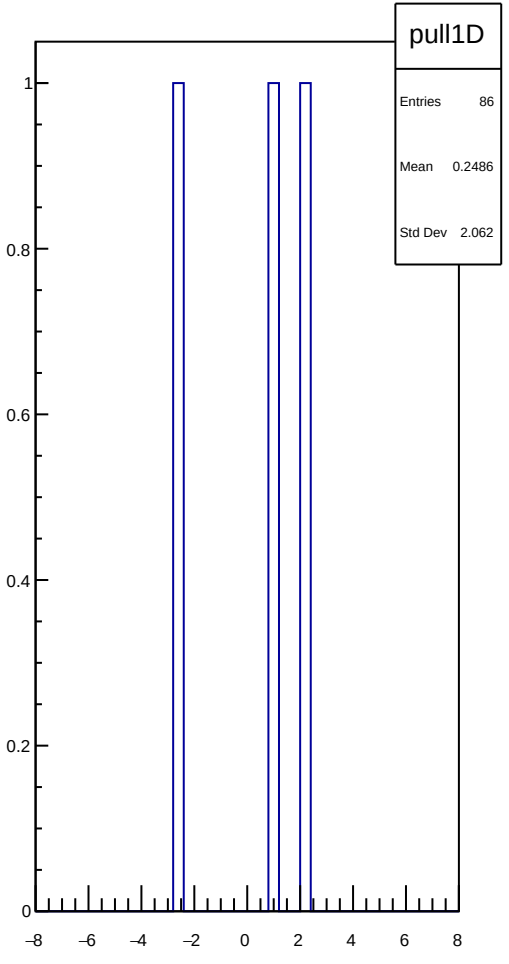

yield_bpm0l05Y_rms vs run
χ² / ndf 3.636e+05 / 85
p0 0.007716 ± 6.719e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

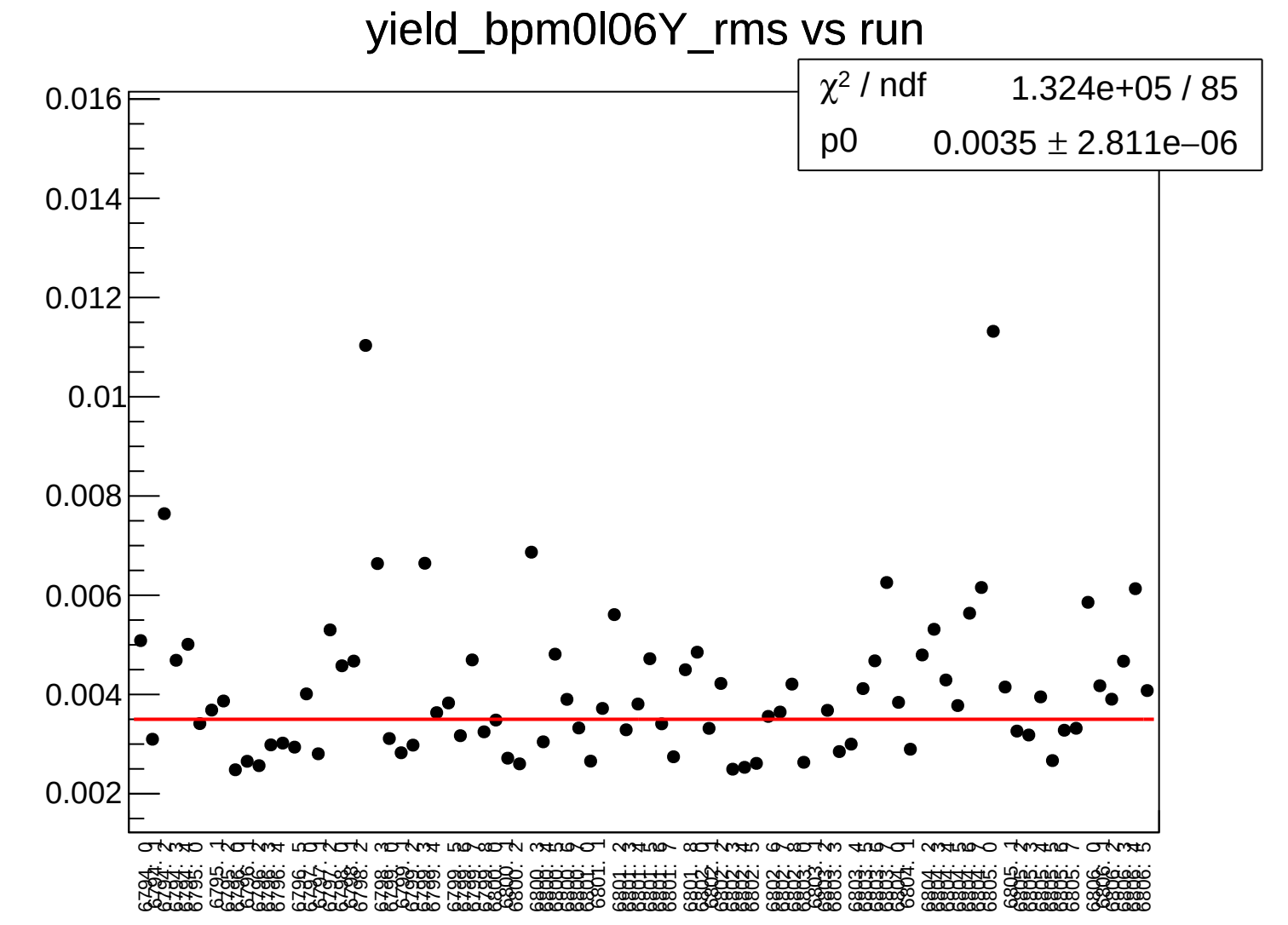

yield_bpm0l06X_mean vs run
χ² / ndf 8.654e+06 / 85
p0 3.357 ± 8.708e−06
3.4
3.38
3.36
3.34
3.32
3.3
3.28
pull
Entries 86
Mean 627.5
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000

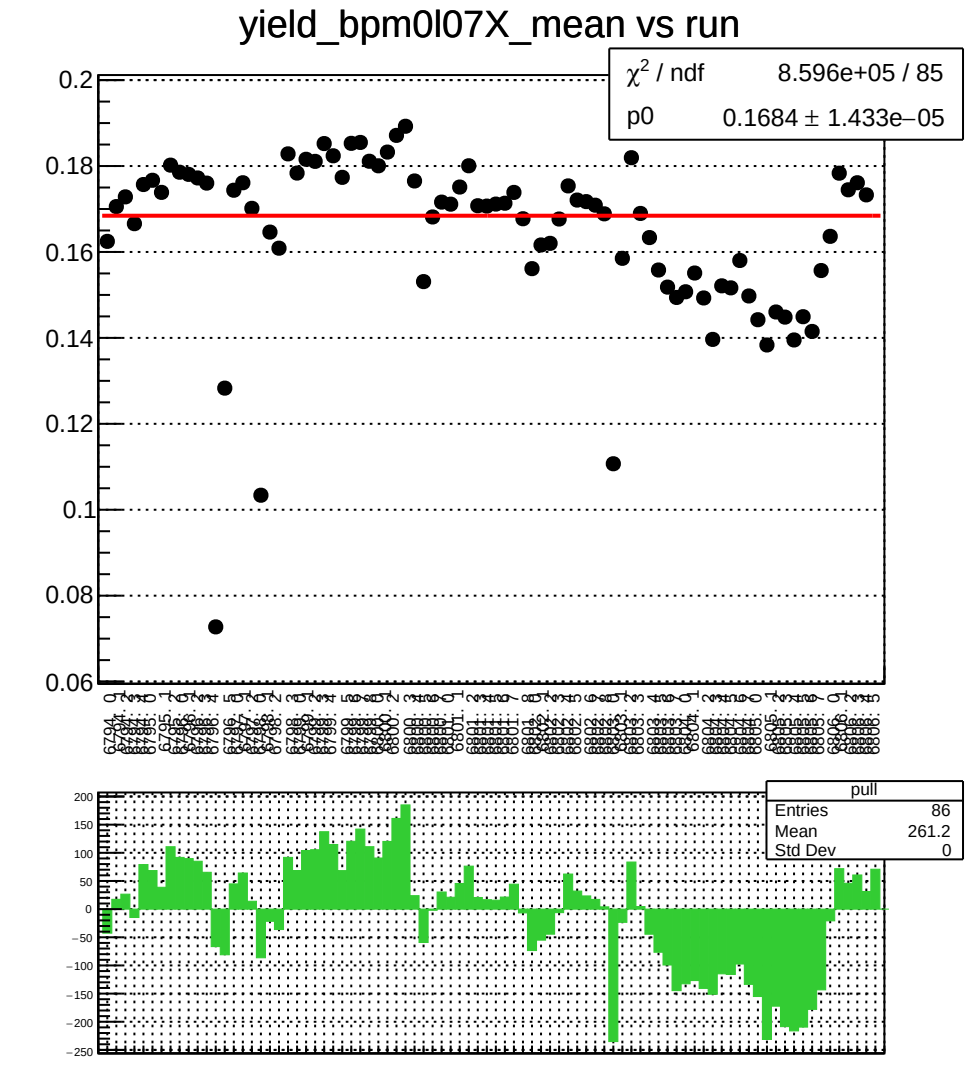

pull1D
Entries 86
Mean −3.801
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

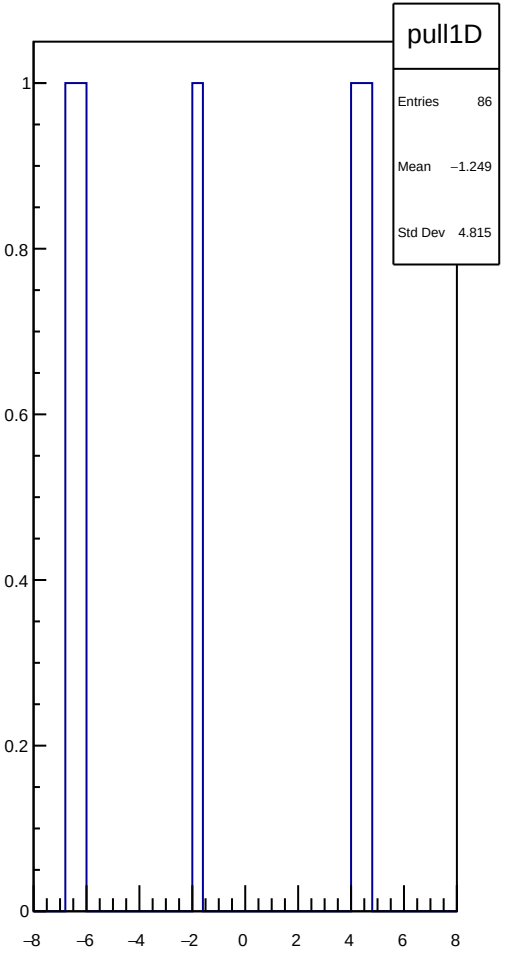

yield_bpm0l06X_rms vs run
χ^2 / ndf 8.301e+04 / 85
p0 0.007787 ± 6.158e−06
0.03
0.025
0.02
0.015
0.01
0.005

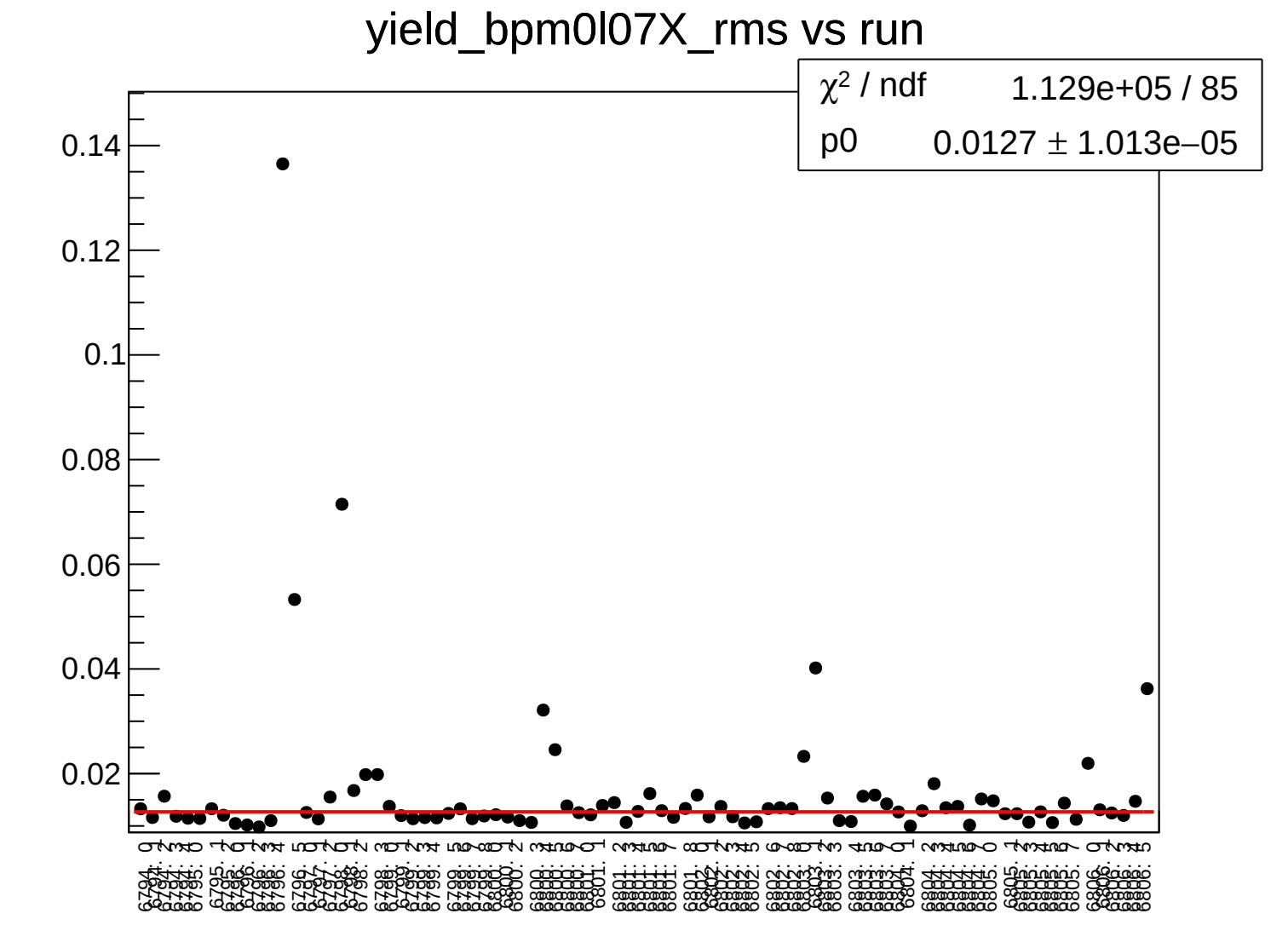

yield_bpm0l06Y_mean vs run
χ² / ndf 1.231e+07 / 85
p0 −2 ± 3.975e−06
−1.97
−1.98
−1.99
−2
−2.01
−2.02
−2.03
−2.04
−2.05
pull
Entries 86
Mean 539.7
Std Dev 0
500
0
−500
−1000
−1500

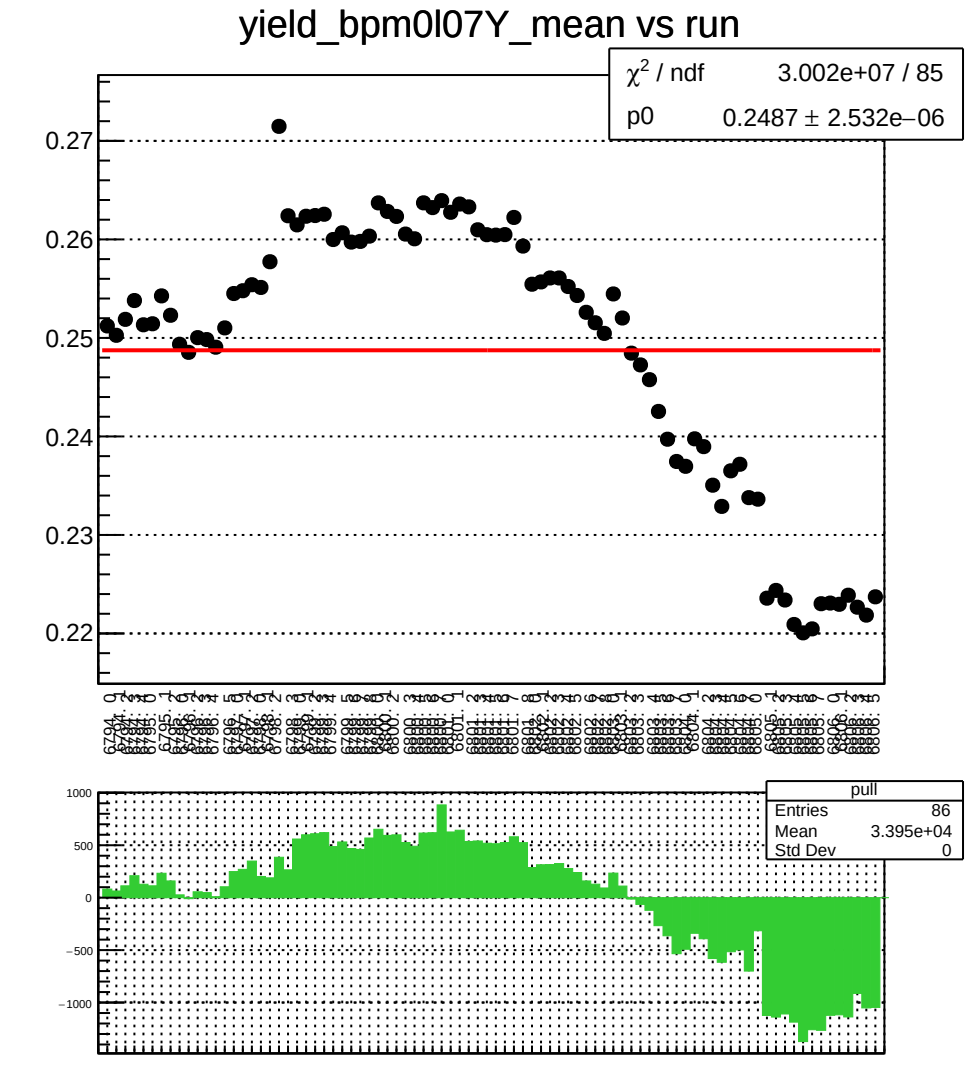

pull1D
Entries 86
Mean 0.2486
Std Dev 2.062
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

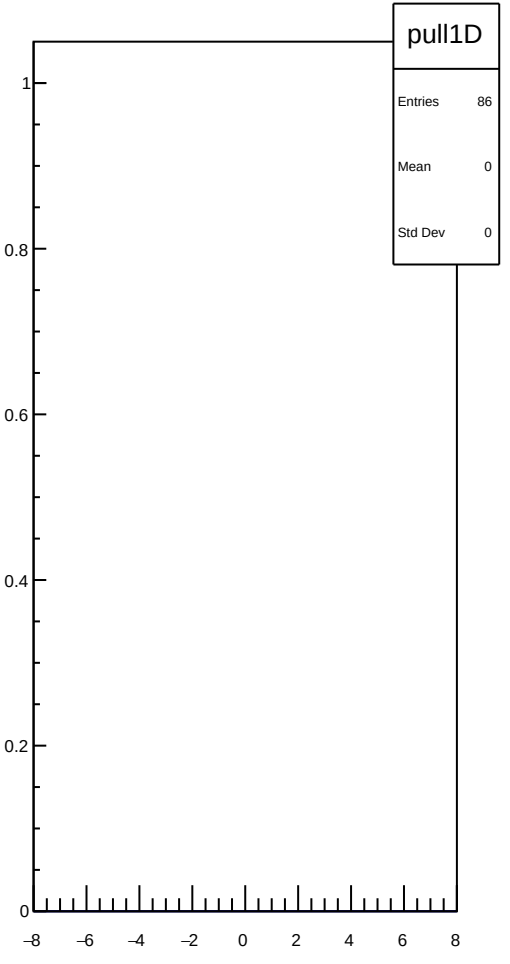

yield_bpm0l06Y_rms vs run
χ² / ndf 1.324e+05 / 85
p0 0.0035 ± 2.811e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

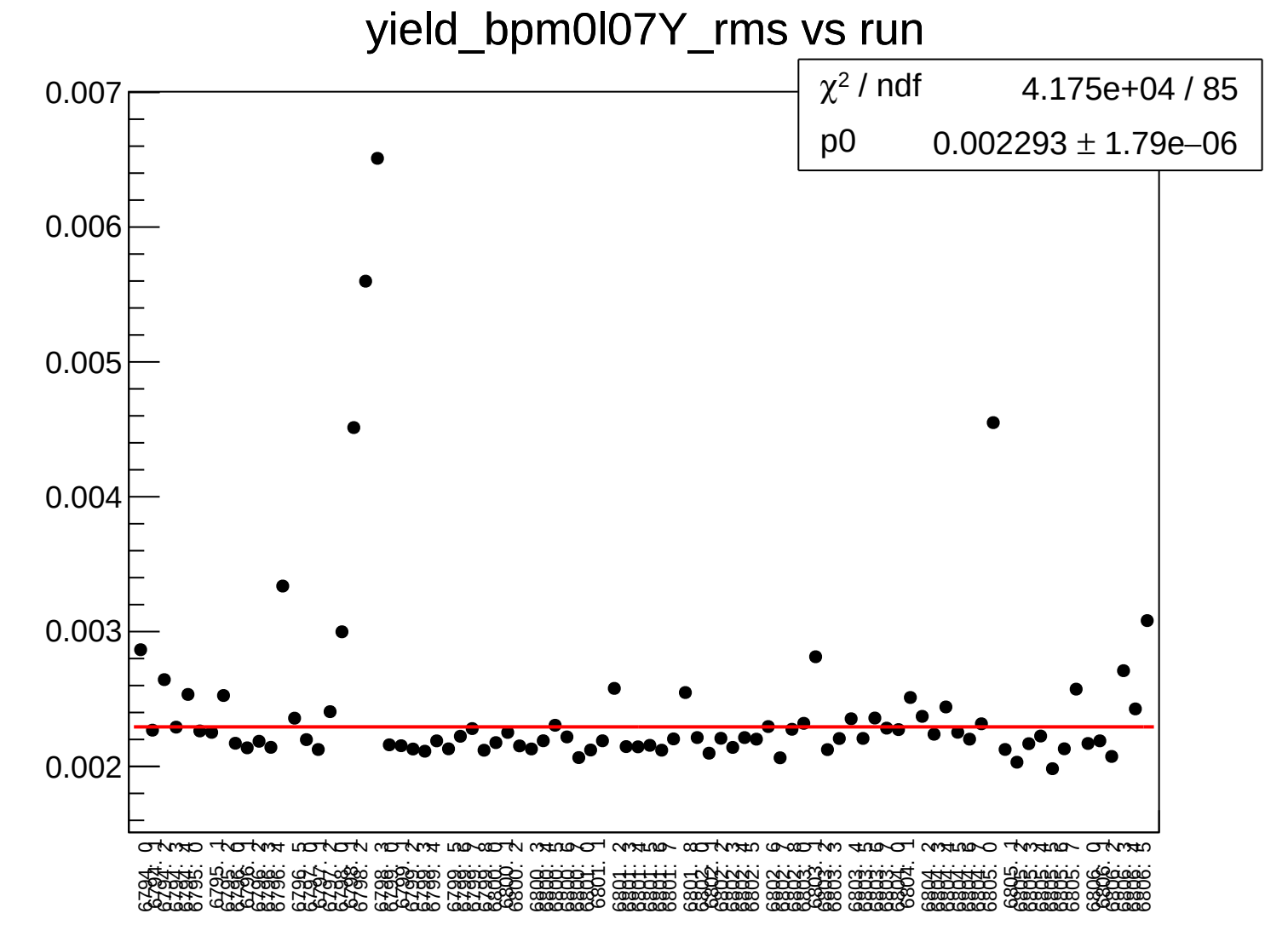

yield_bpm0l07X_mean vs run
χ² / ndf 8.596e+05 / 85
p0 0.1684 ± 1.433e−05
pull
Entries 86
Mean 261.2
Std Dev 0

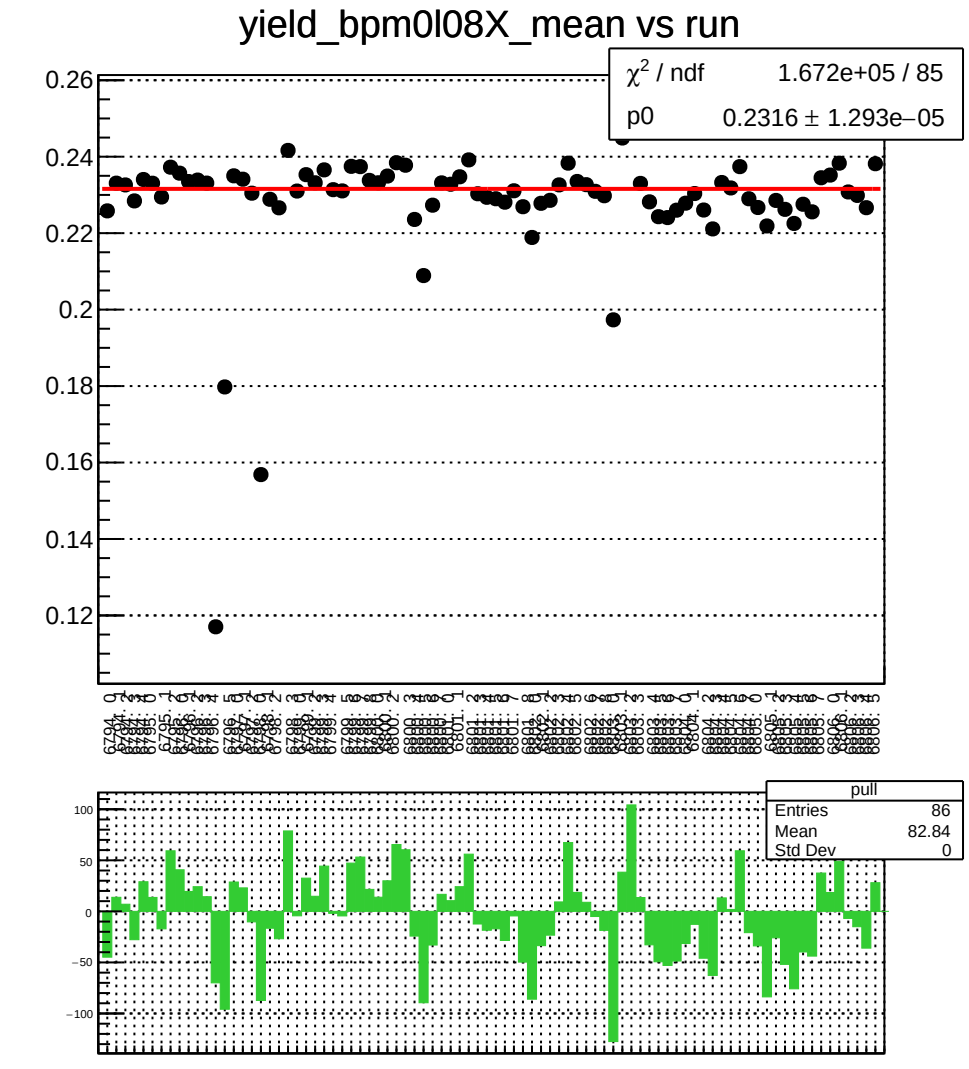

pull1D
Entries 86
Mean −1.249
Std Dev 4.815

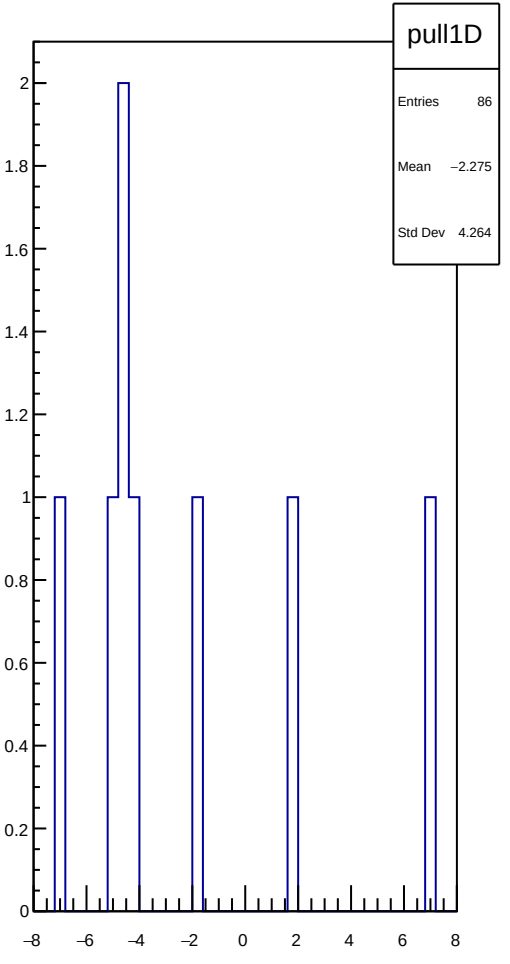

yield_bpm0l07X_rms vs run
χ² / ndf 1.129e+05 / 85
p0 0.0127 ± 1.013e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

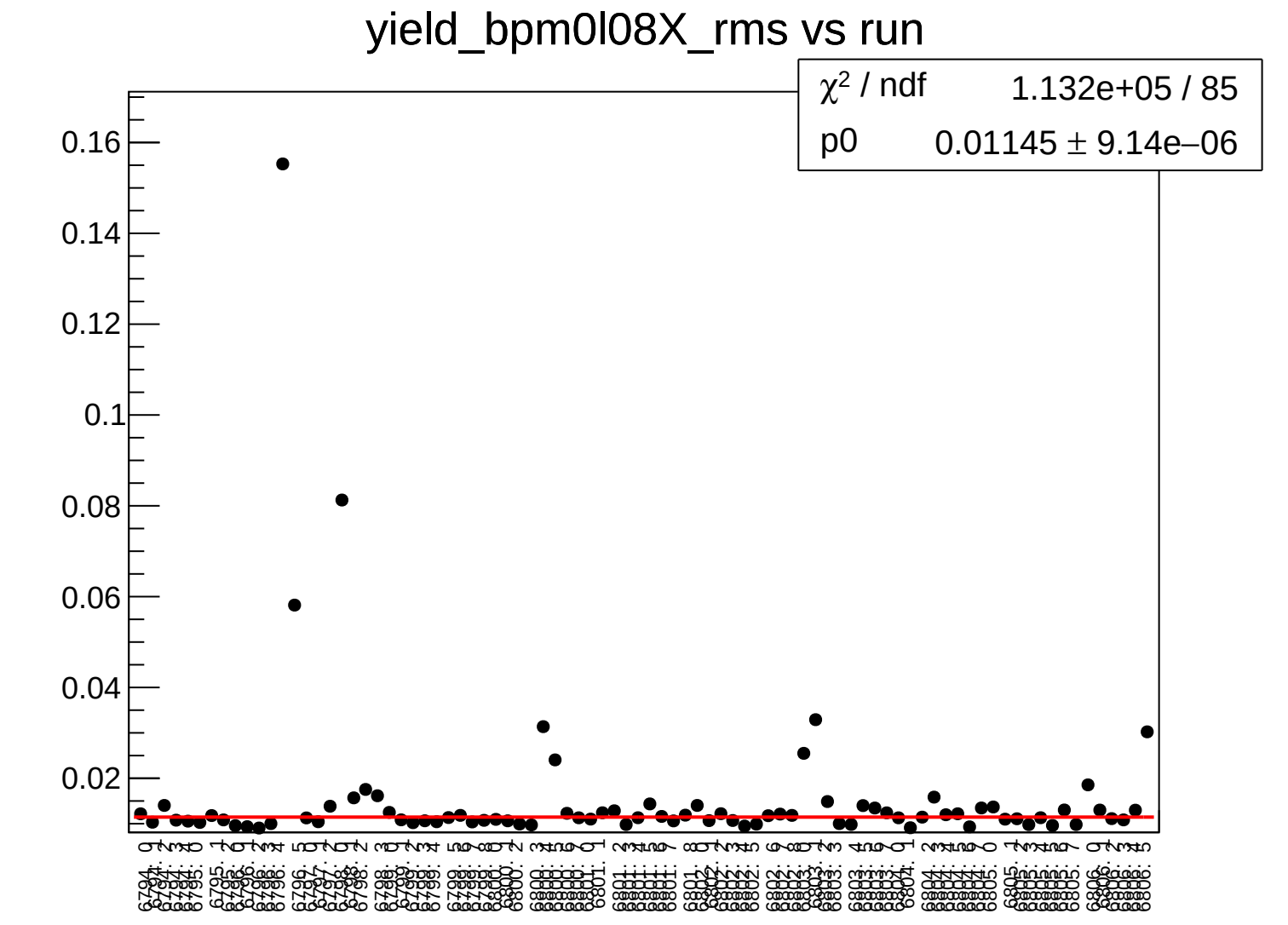

yield_bpm0l07Y_mean vs run
χ² / ndf 3.002e+07 / 85
p0 0.2487 ± 2.532e−06
0.27
0.26
0.25
0.24
0.23
0.22
pull
Entries 86
Mean 3.395e+04
Std Dev 0
1000
500
0
−500
−1000

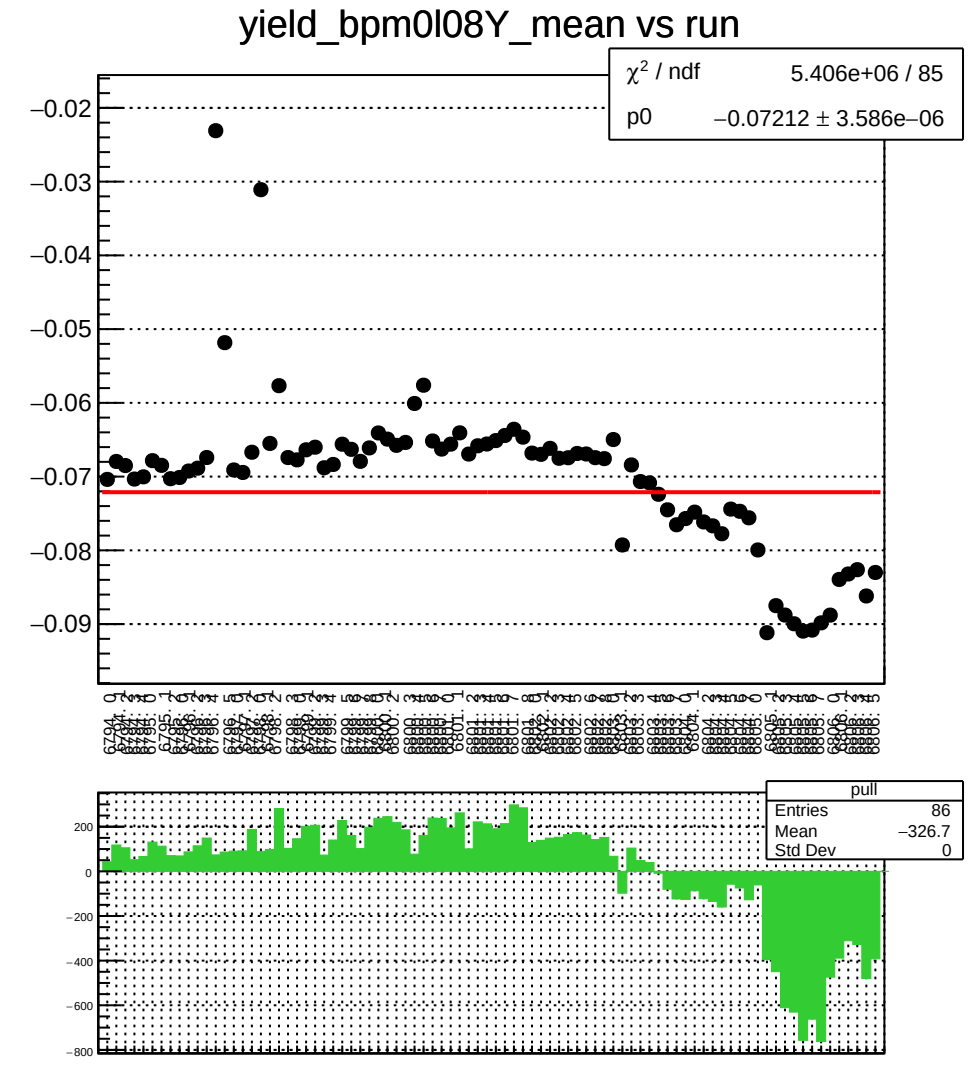

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

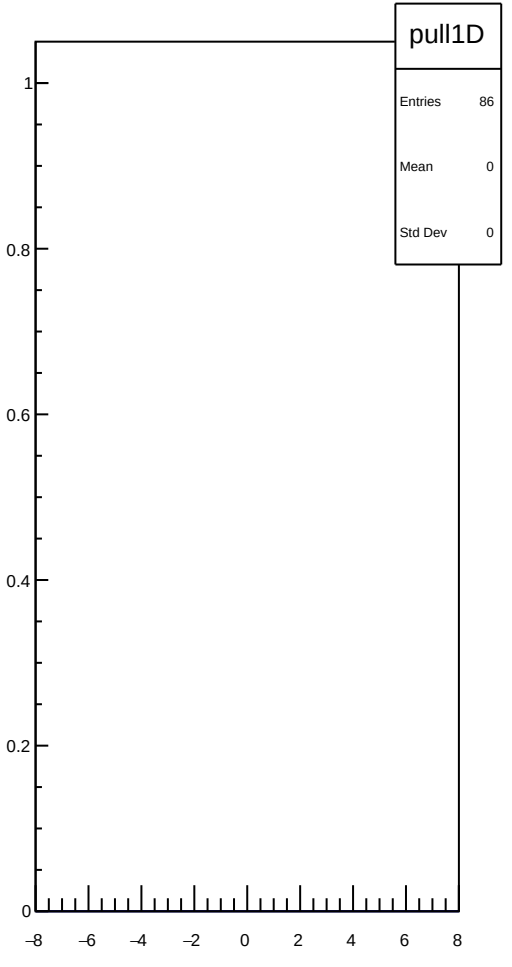

yield_bpm0l07Y_rms vs run
χ² / ndf 4.175e+04 / 85
p0 0.002293 ± 1.79e−06
0.007
0.006
0.005
0.004
0.003
0.002

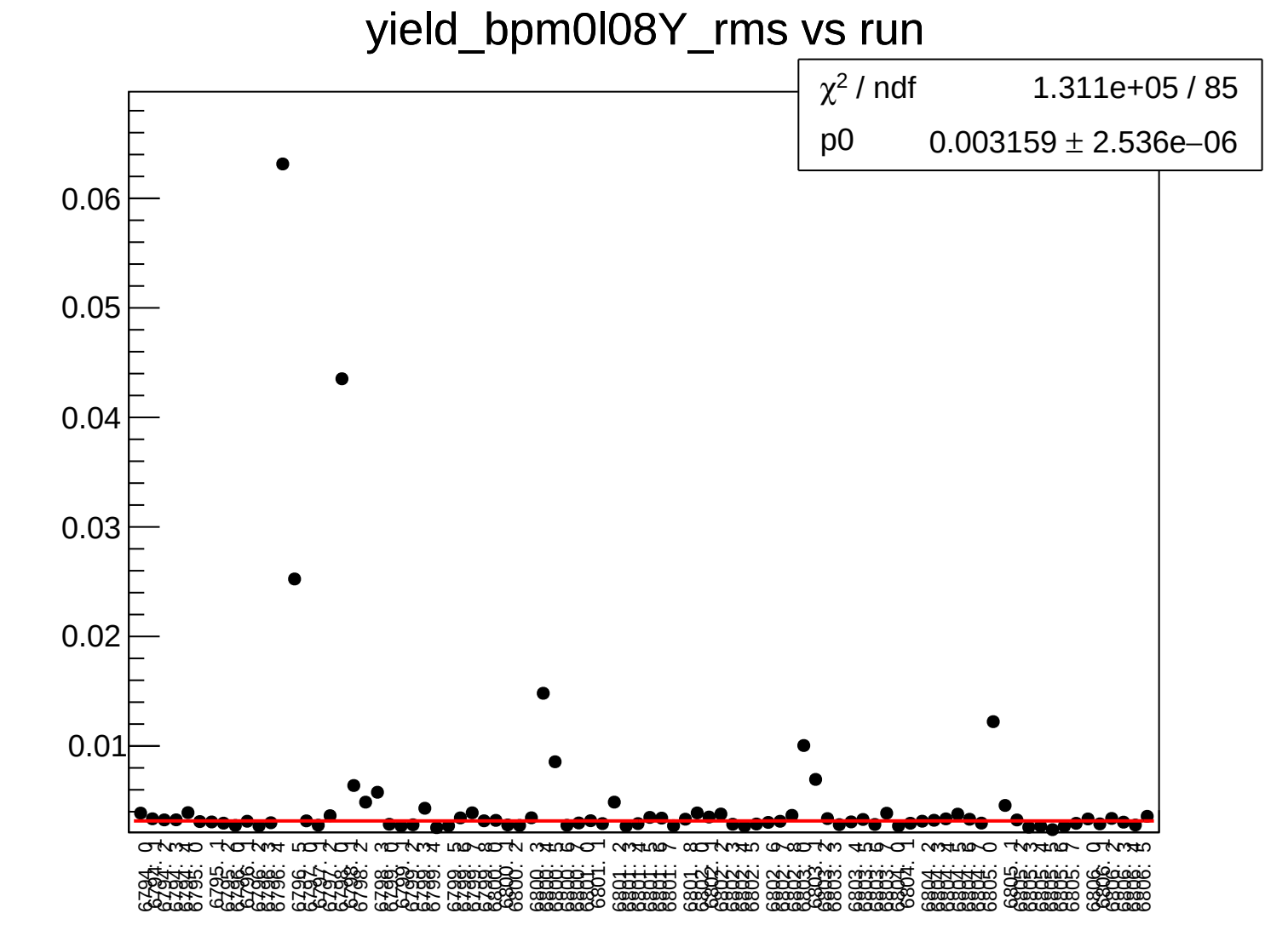

yield_bpm0l08X_mean vs run
χ² / ndf 1.672e+05 / 85
p0 0.2316 ± 1.293e−05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
pull
Entries 86
Mean 82.84
Std Dev 0
100
50
0
−50
−100

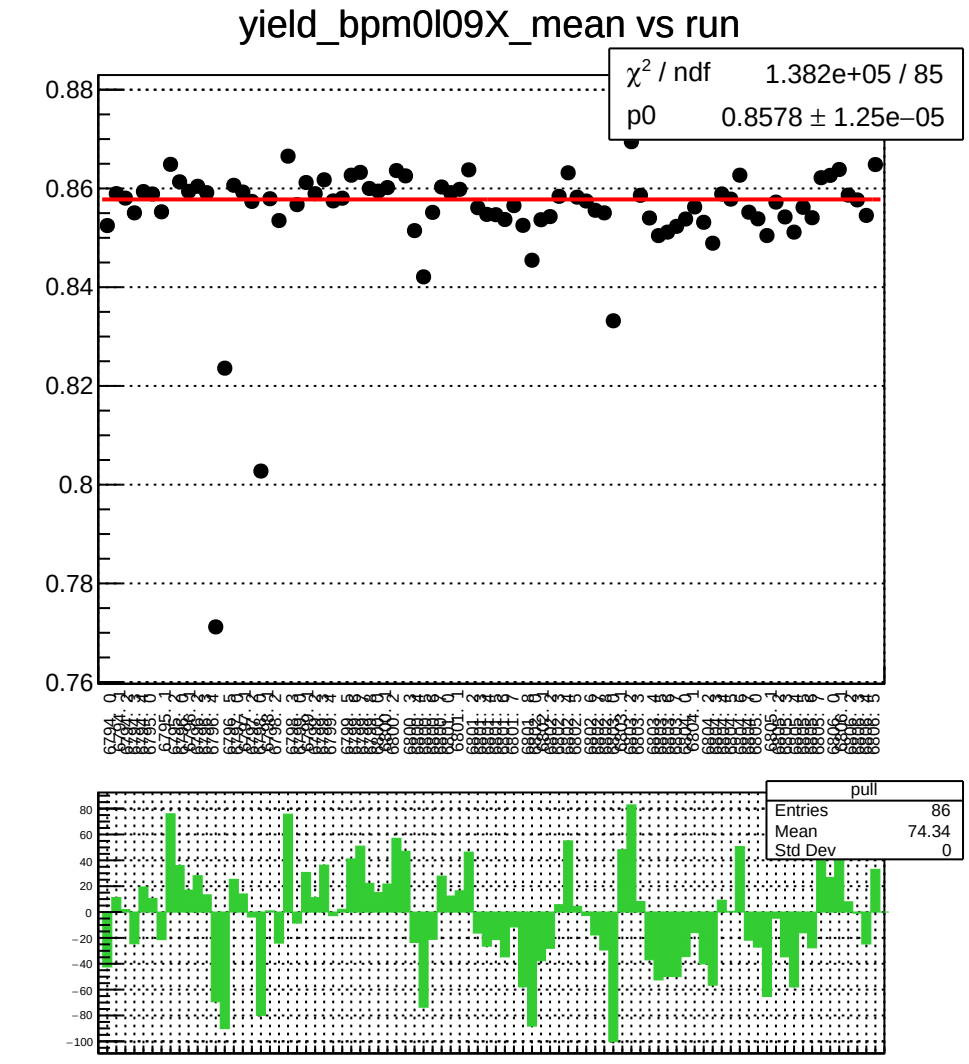

pull1D
Entries 86
Mean −2.275
Std Dev 4.264
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

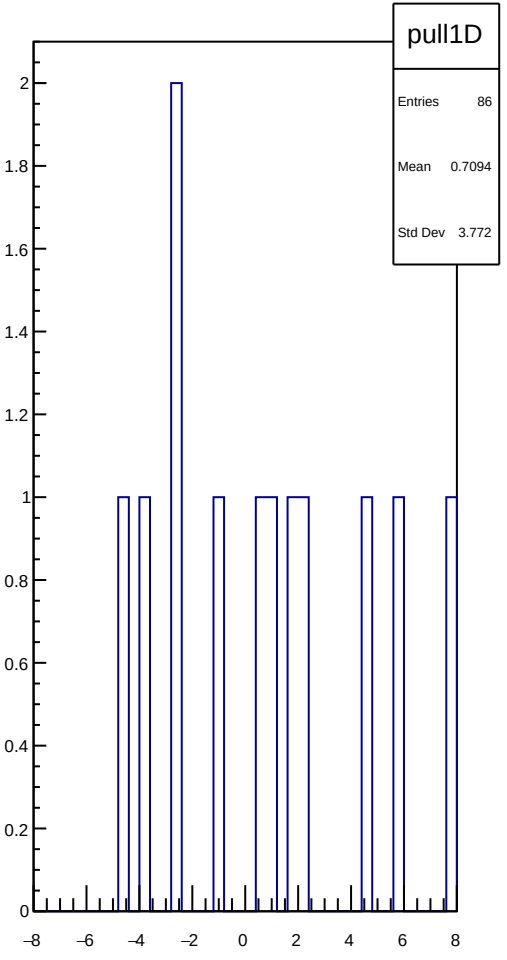

yield_bpm0l08X_rms vs run
χ² / ndf 1.132e+05 / 85
p0 0.01145 ± 9.14e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

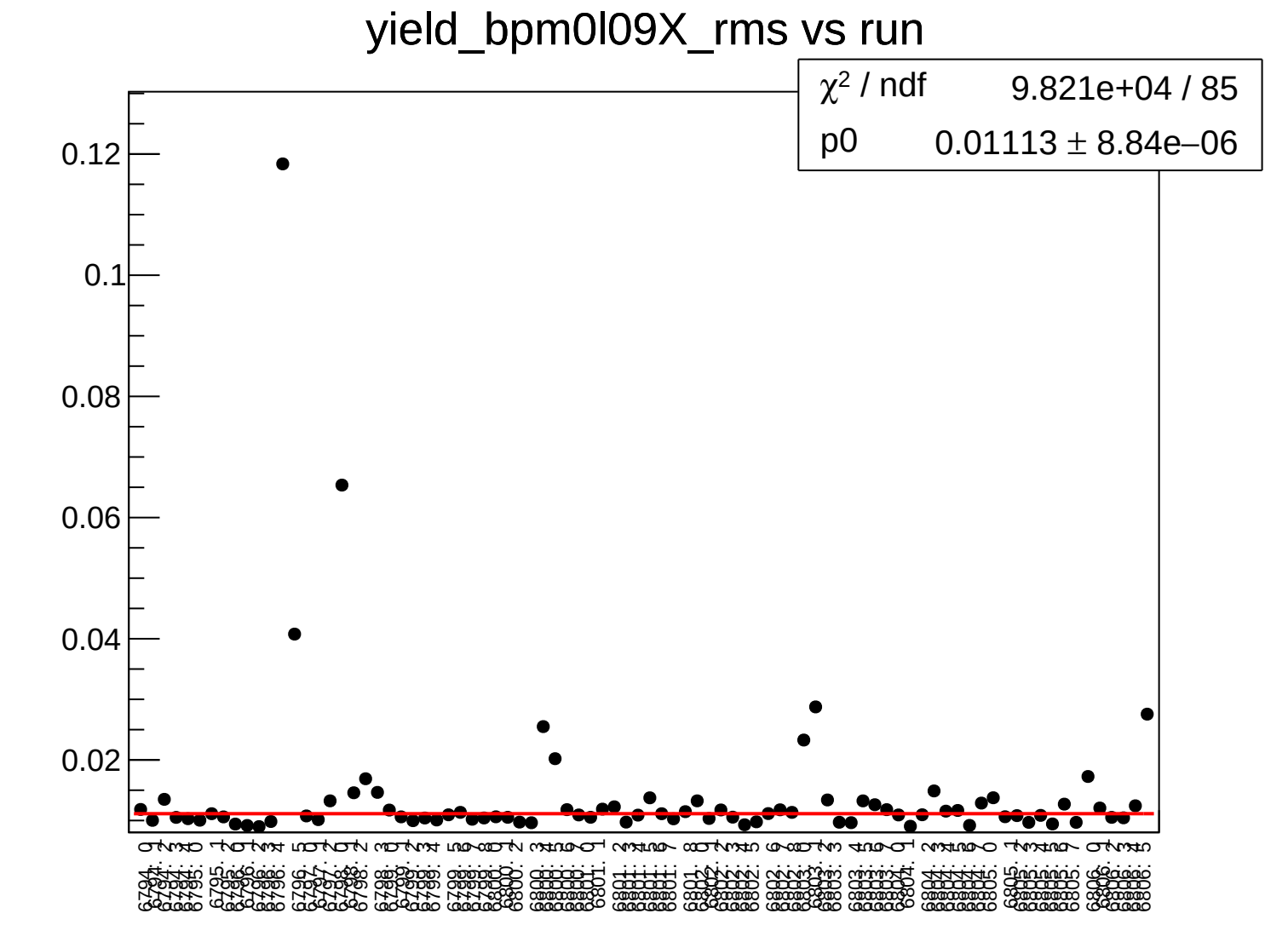

yield_bpm0l08Y_mean vs run
χ² / ndf 5.406e+06 / 85
p0 −0.07212 ± 3.586e−06
−0.02
−0.03
−0.04
−0.05
−0.06
−0.07
−0.08
−0.09
pull
Entries 86
Mean −326.7
Std Dev 0
200
0
−200
−400
−600
−800

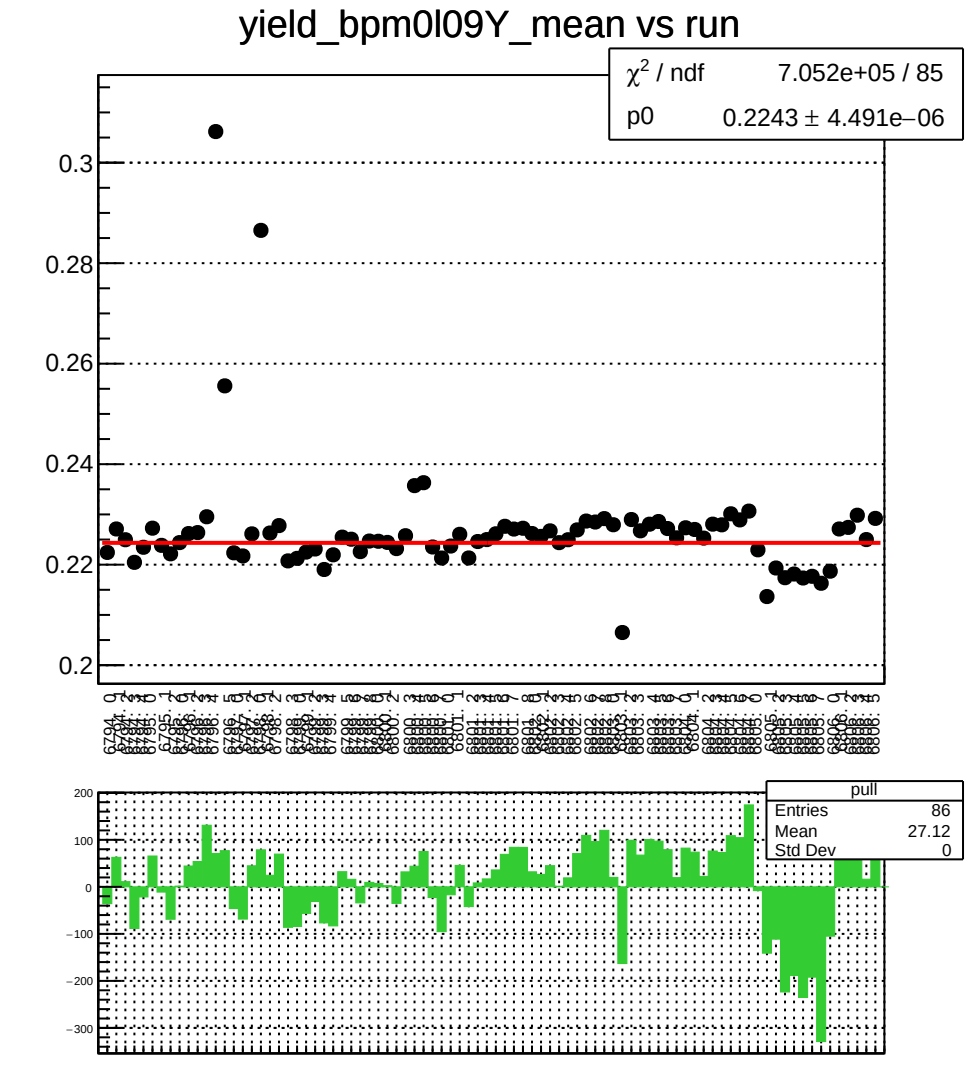

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

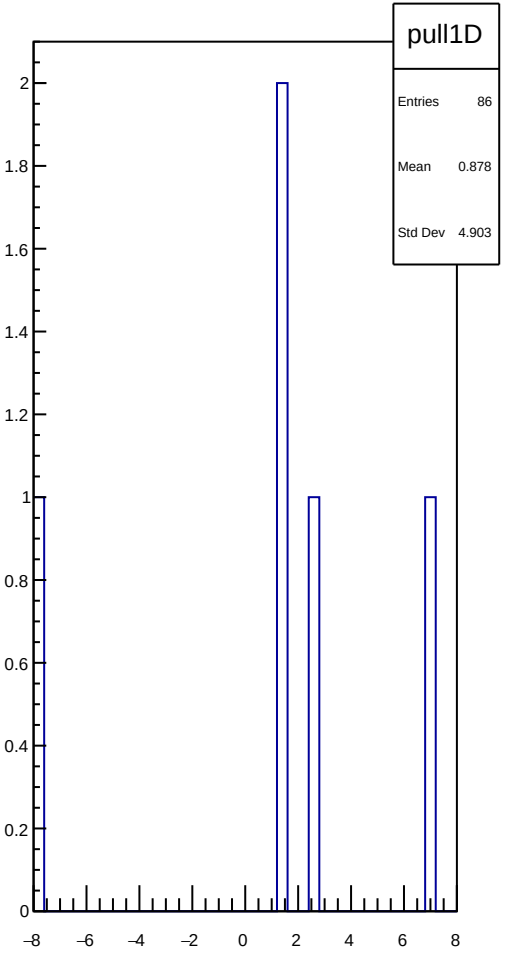

yield_bpm0l08Y_rms vs run
χ² / ndf 1.311e+05 / 85
p0 0.003159 ± 2.536e−06
0.06
0.05
0.04
0.03
0.02
0.01

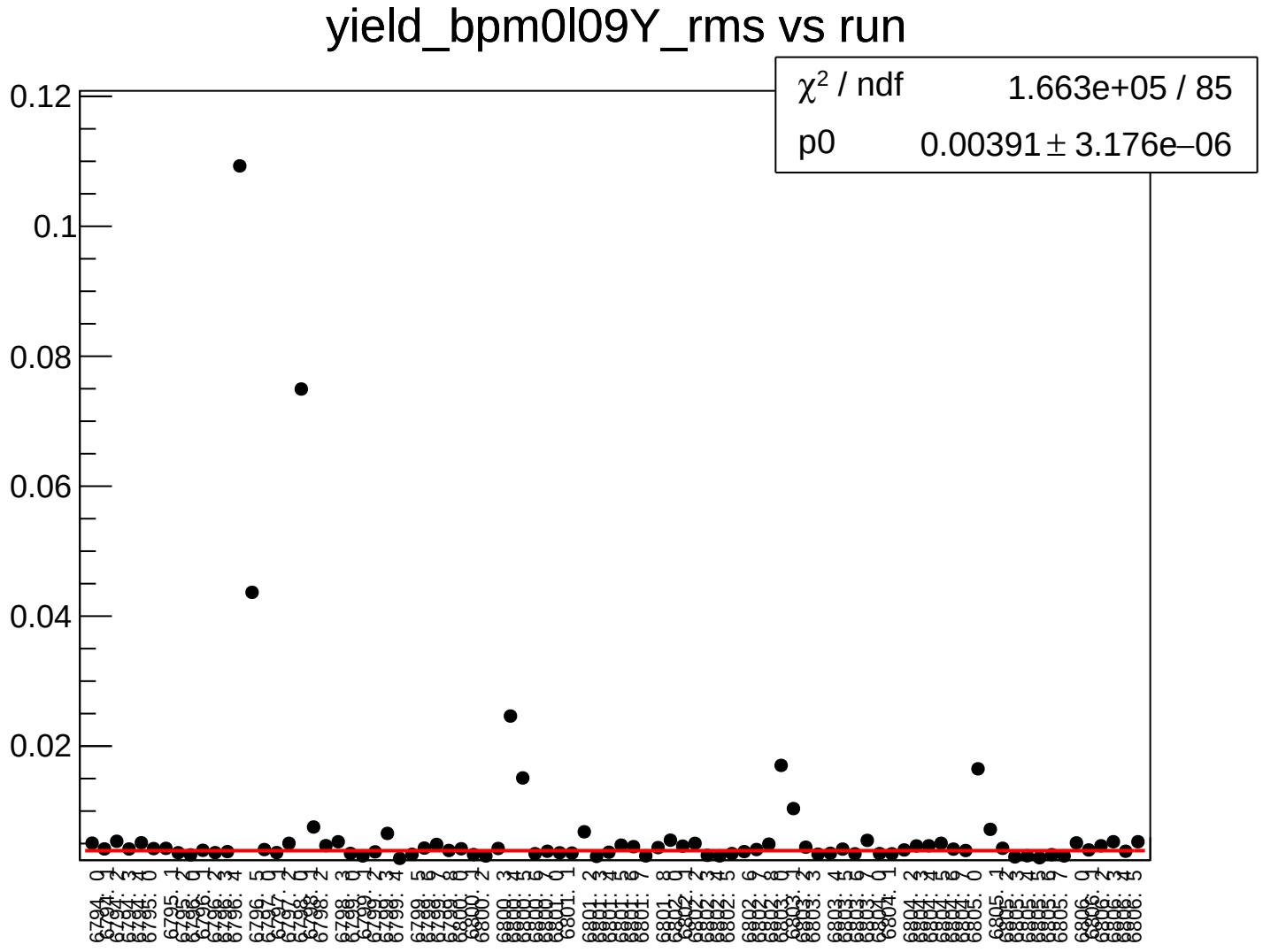

yield_bpm0l09X_mean vs run
χ² / ndf 1.382e+05 / 85
p0 0.8578 ± 1.25e−05
0.88
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 86
Mean 74.34
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

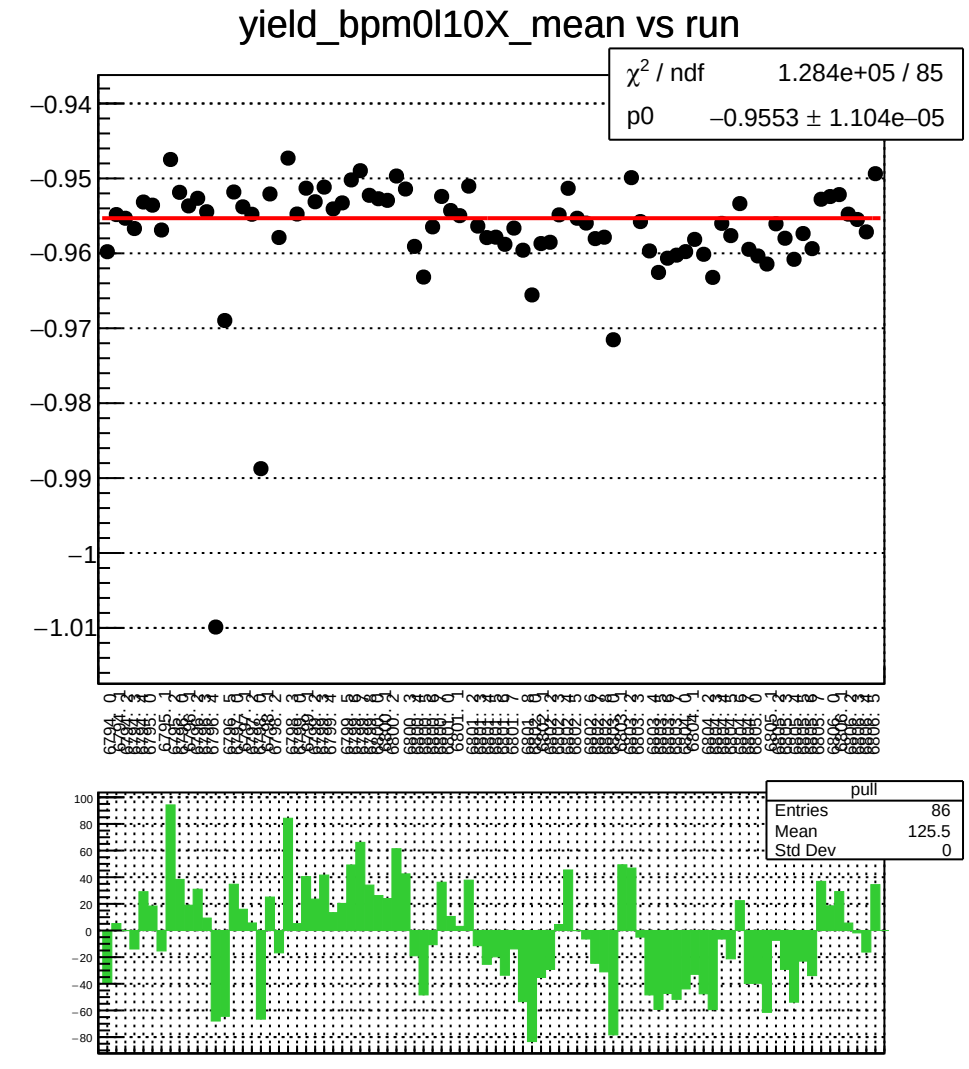

pull1D
Entries 86
Mean 0.7094
Std Dev 3.772
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

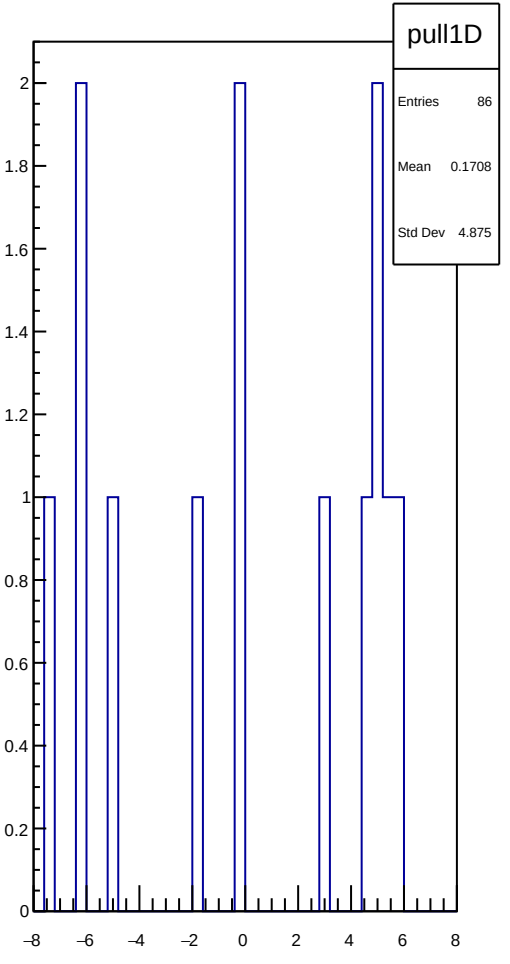

yield_bpm0l09X_rms vs run
χ² / ndf 9.821e+04 / 85
p0 0.01113 ± 8.84e−06
0.12
0.1
0.08
0.06
0.04
0.02

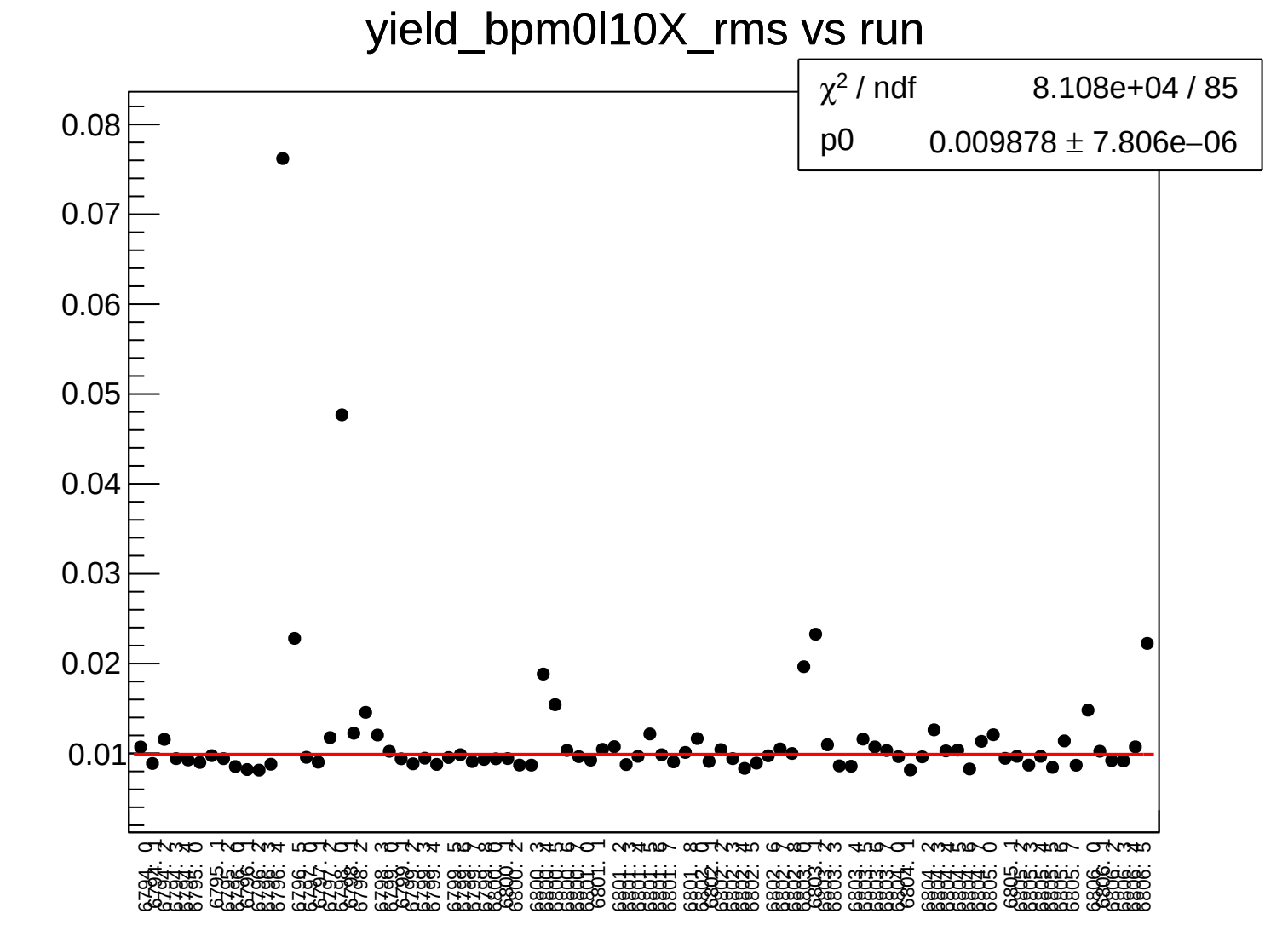

yield_bpm0l09Y_mean vs run
χ² / ndf 7.052e+05 / 85
p0 0.2243 ± 4.491e−06
0.3
0.28
0.26
0.24
0.22
0.2
pull
Entries 86
Mean 27.12
Std Dev 0
200
100
0
−100
−200
−300

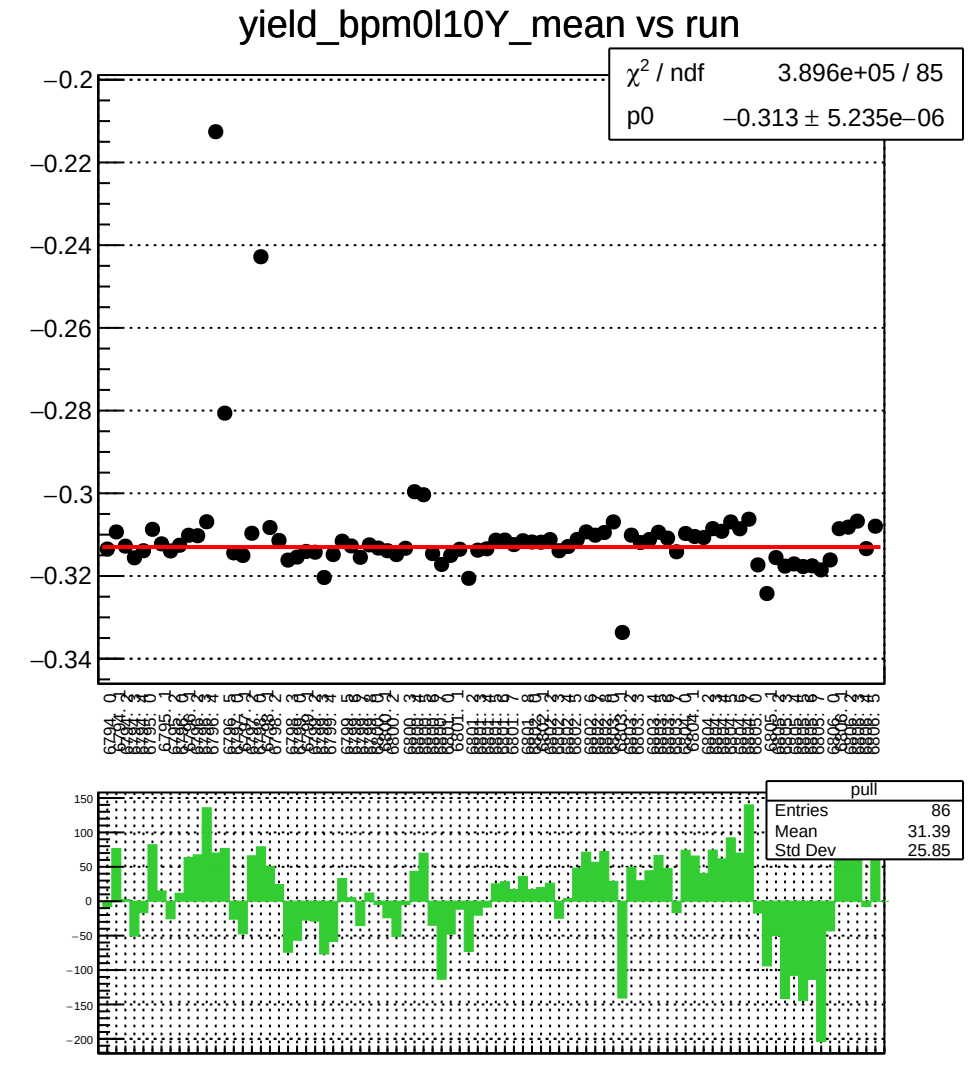

pull1D
Entries 86
Mean 0.878
Std Dev 4.903
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

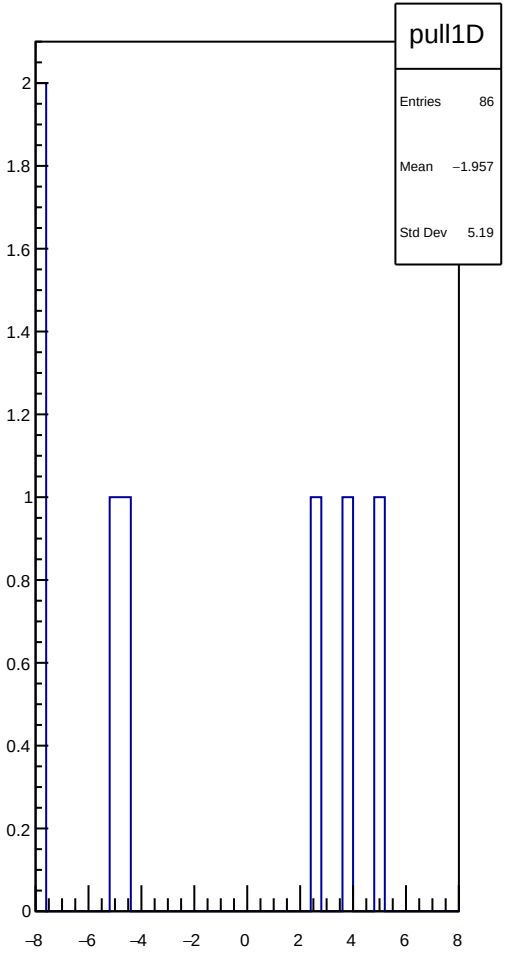

yield_bpm0l09Y_rms vs run
χ² / ndf 1.663e+05 / 85
p0 0.00391 ± 3.176e–06
0.12
0.1
0.08
0.06
0.04
0.02

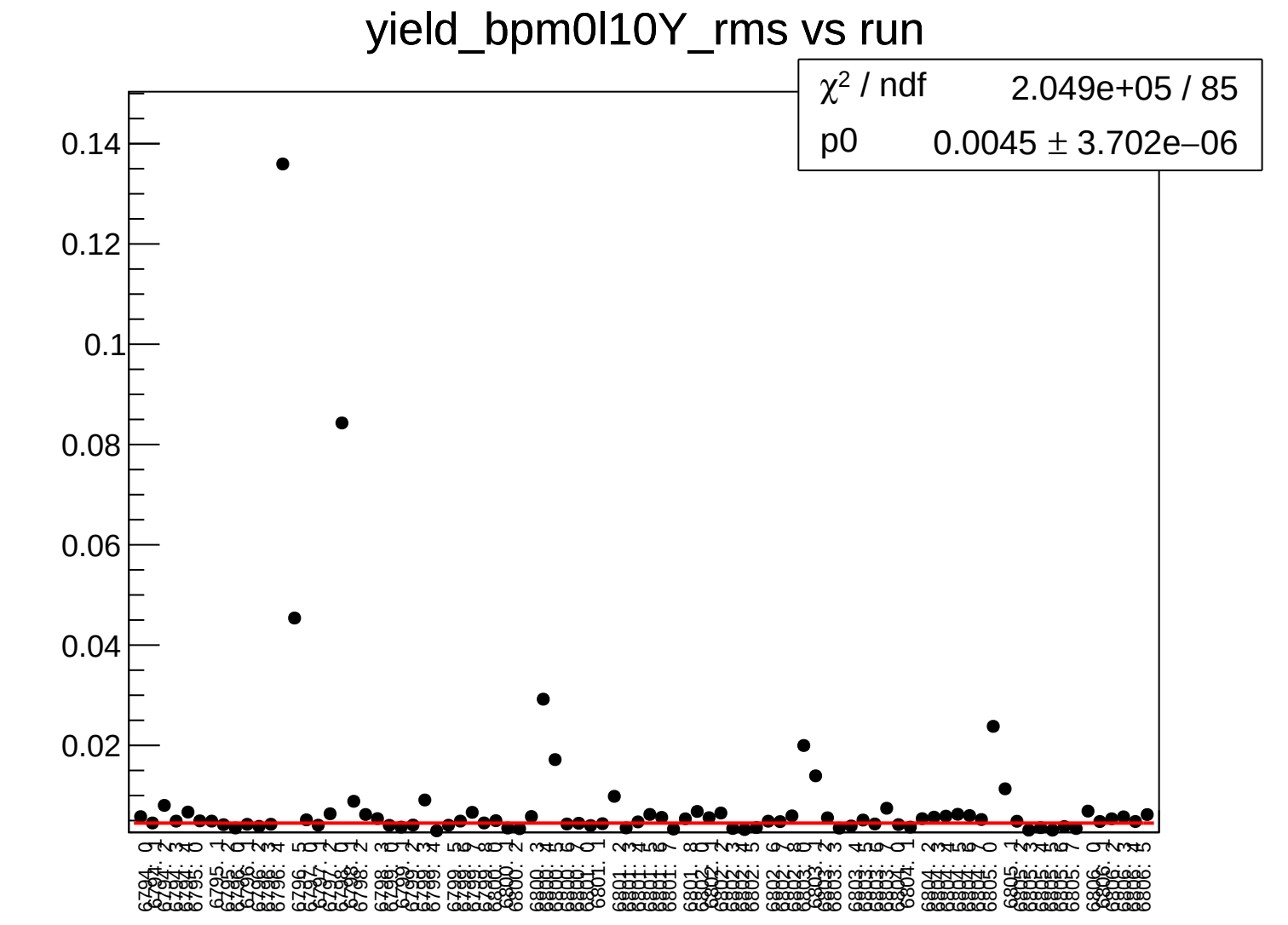

yield_bpm0l10X_mean vs run
χ² / ndf 1.284e+05 / 85
p0 −0.9553 ± 1.104e−05
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
−1
−1.01
pull
Entries 86
Mean 125.5
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

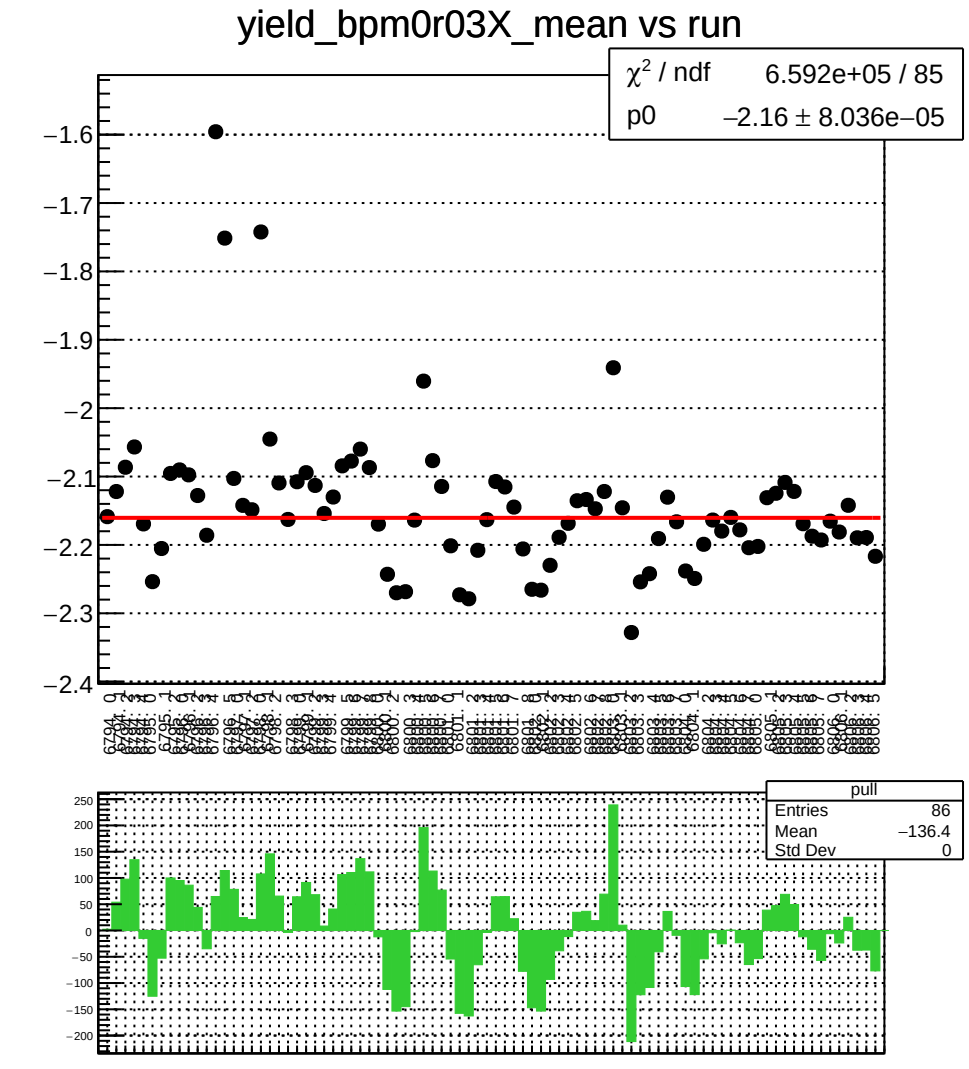

pull1D
Entries 86
Mean 0.1708
Std Dev 4.875
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

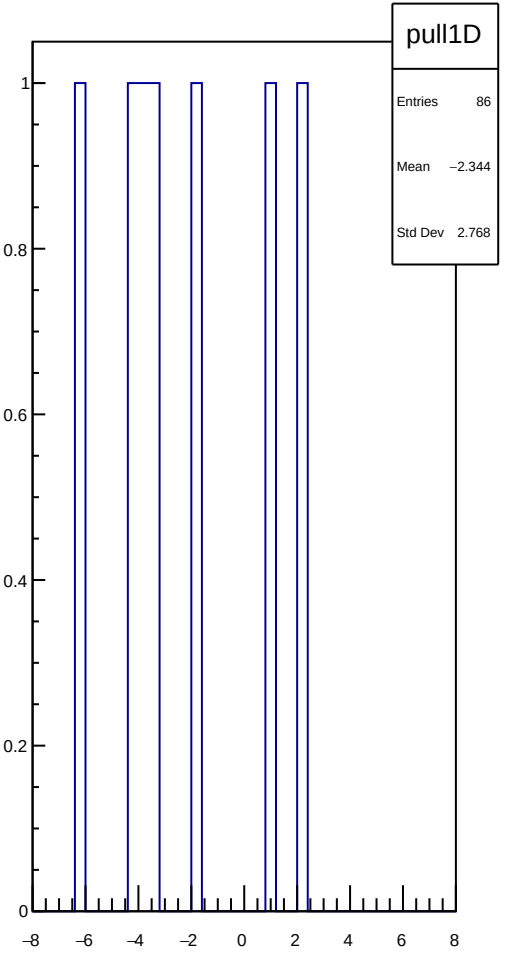

yield_bpm0l10X_rms vs run
χ^2 / ndf 8.108e+04 / 85
p0 0.009878 ± 7.806e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

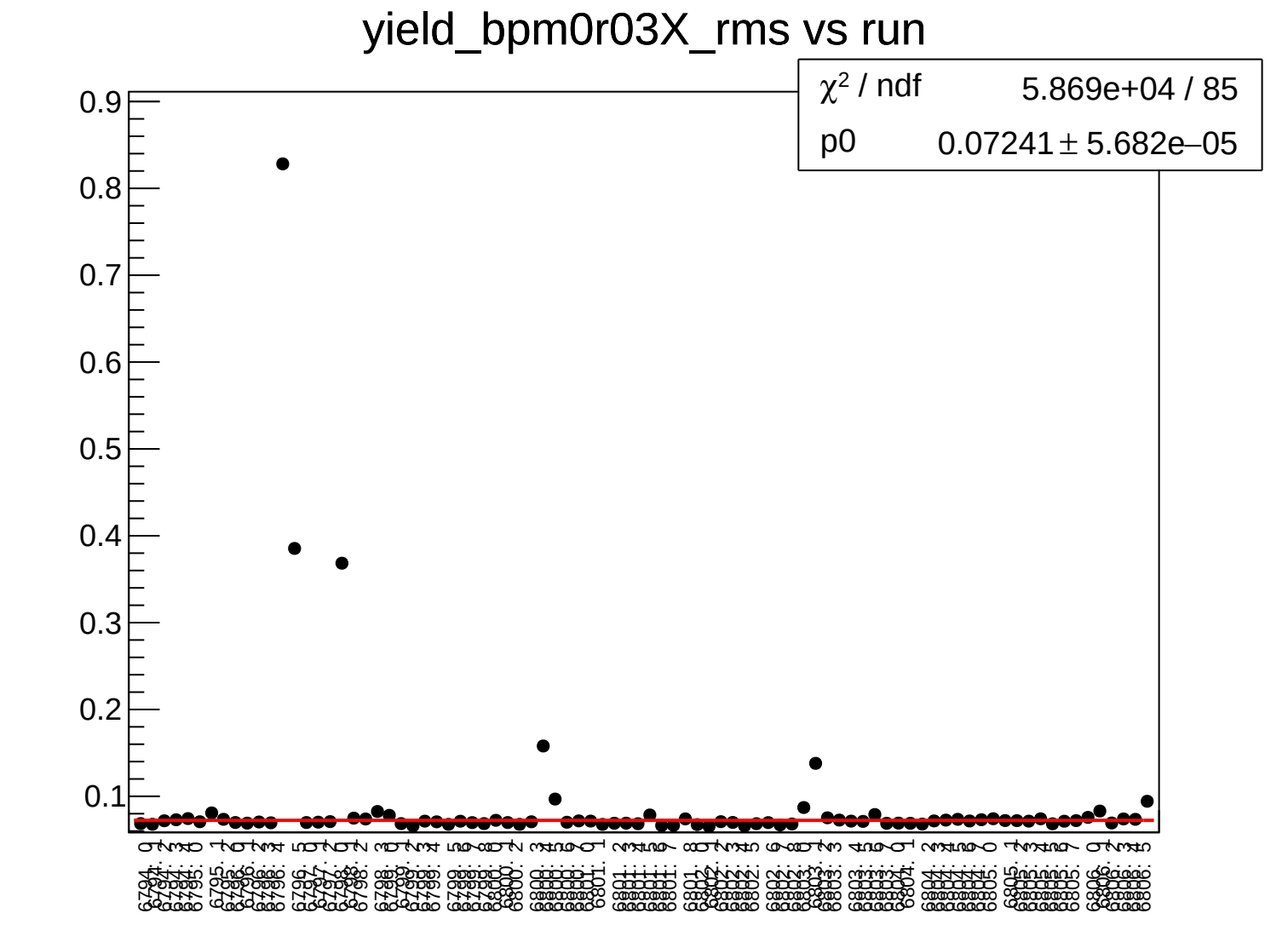

yield_bpm0l10Y_mean vs run
χ² / ndf 3.896e+05 / 85
p0 −0.313 ± 5.235e−06
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 86
Mean 31.39
Std Dev 25.85
150
100
50
0
−50
−100
−150
−200

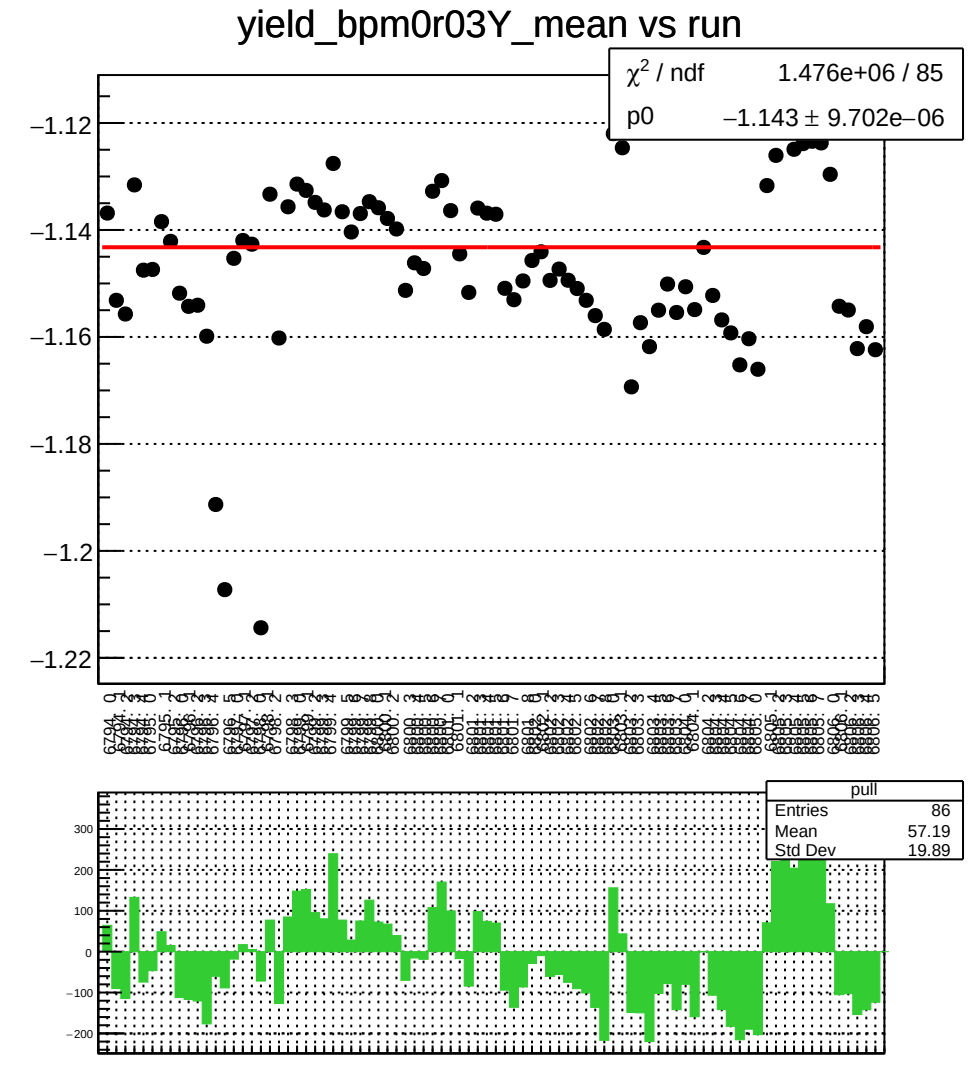

pull1D
Entries 86
Mean −1.957
Std Dev 5.19
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

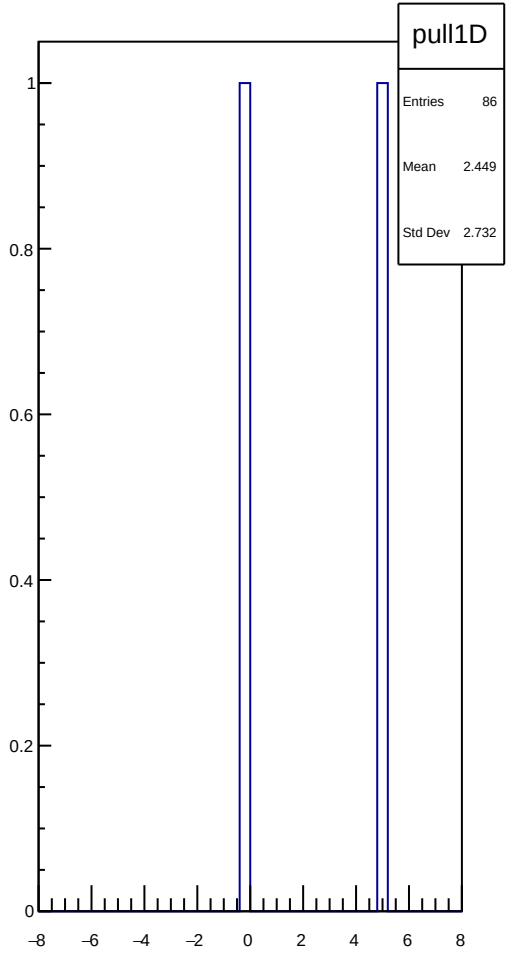

yield_bpm0l10Y_rms vs run
χ² / ndf 2.049e+05 / 85
p0 0.0045 ± 3.702e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

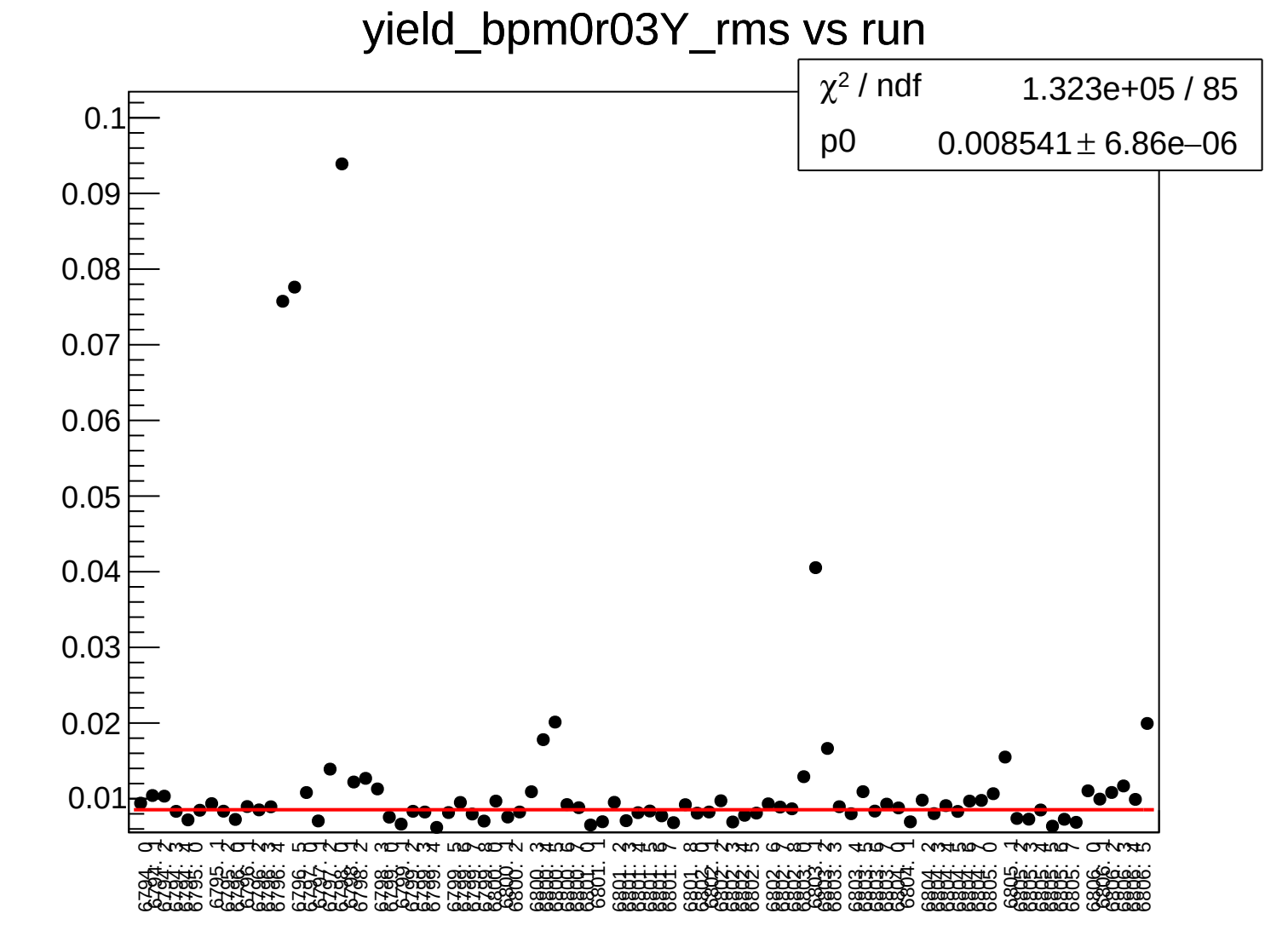

yield_bpm0r03X_mean vs run
χ² / ndf 6.592e+05 / 85
p0 −2.16 ± 8.036e−05
pull
Entries 86
Mean −136.4
Std Dev 0

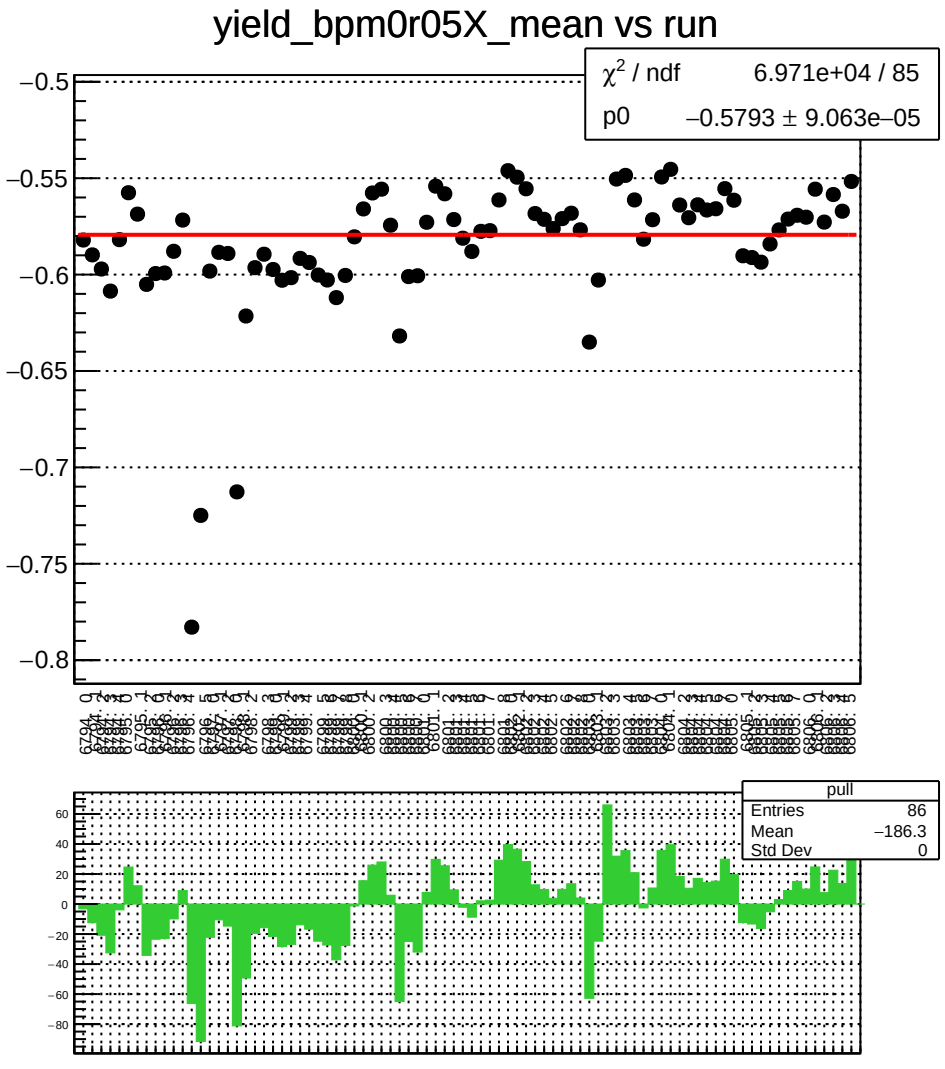

pull1D
Entries 86
Mean −2.344
Std Dev 2.768

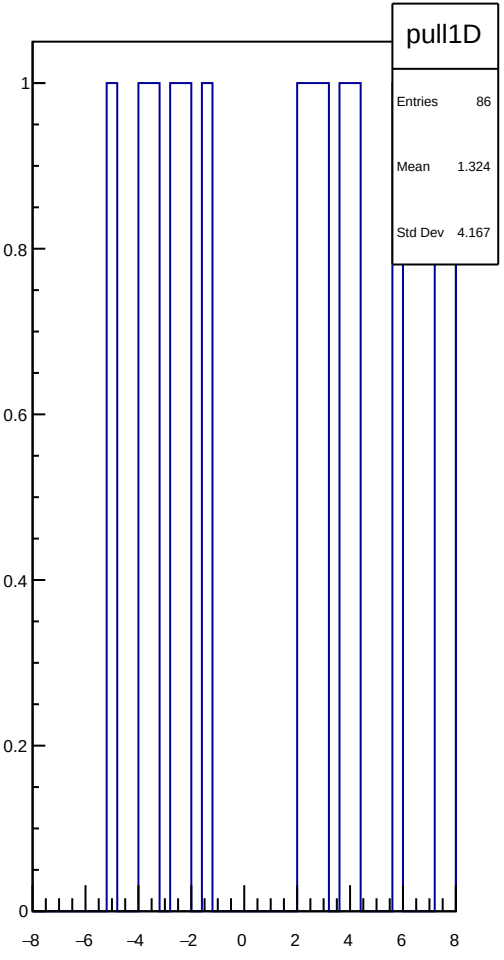

yield_bpm0r03X_rms vs run
χ^2 / ndf 5.869e+04 / 85
p0 0.07241 ± 5.682e−05
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

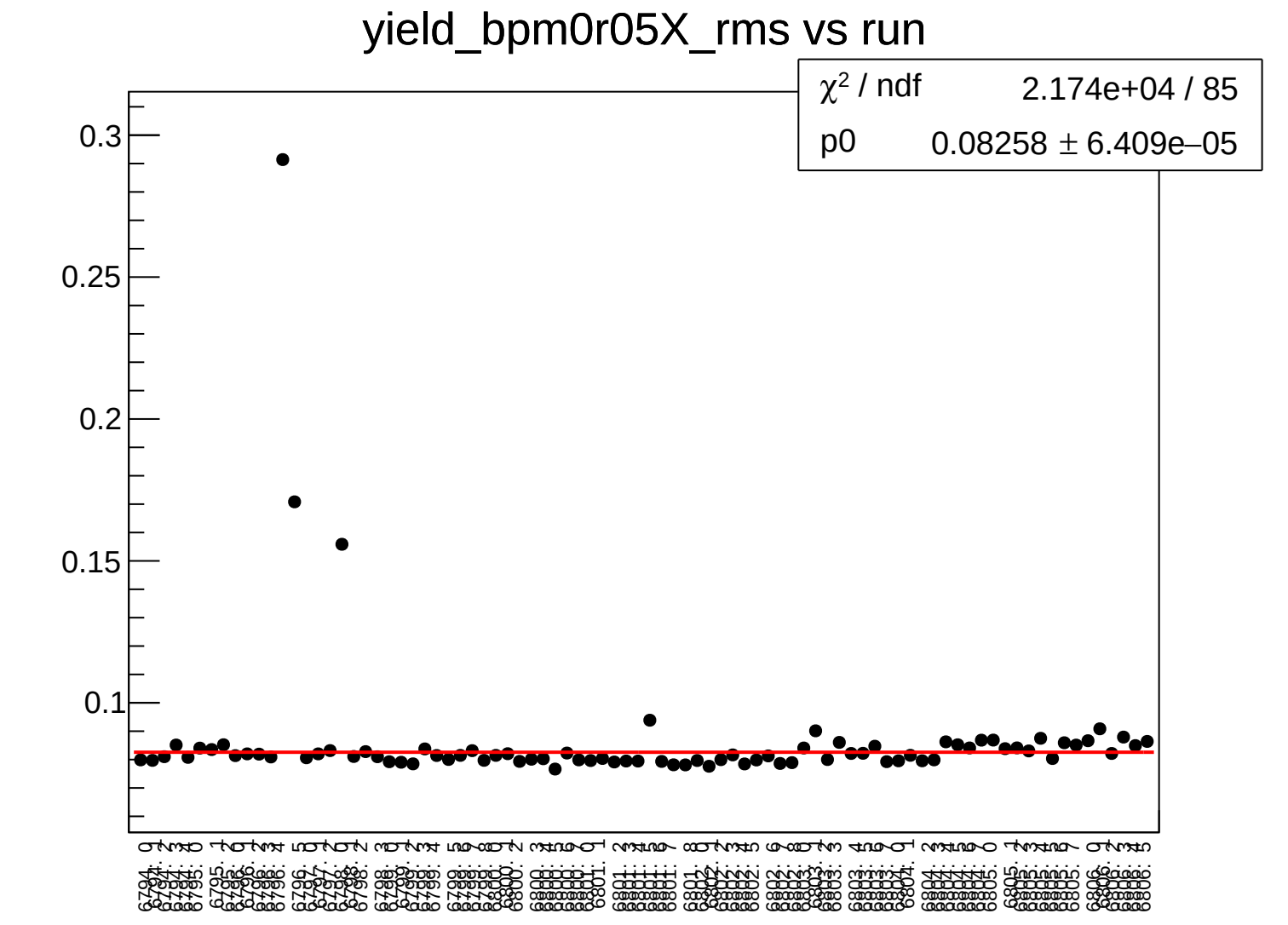

yield_bpm0r03Y_mean vs run
χ² / ndf 1.476e+06 / 85
p0 −1.143 ± 9.702e−06
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 86
Mean 57.19
Std Dev 19.89
300
200
100
0
−100
−200

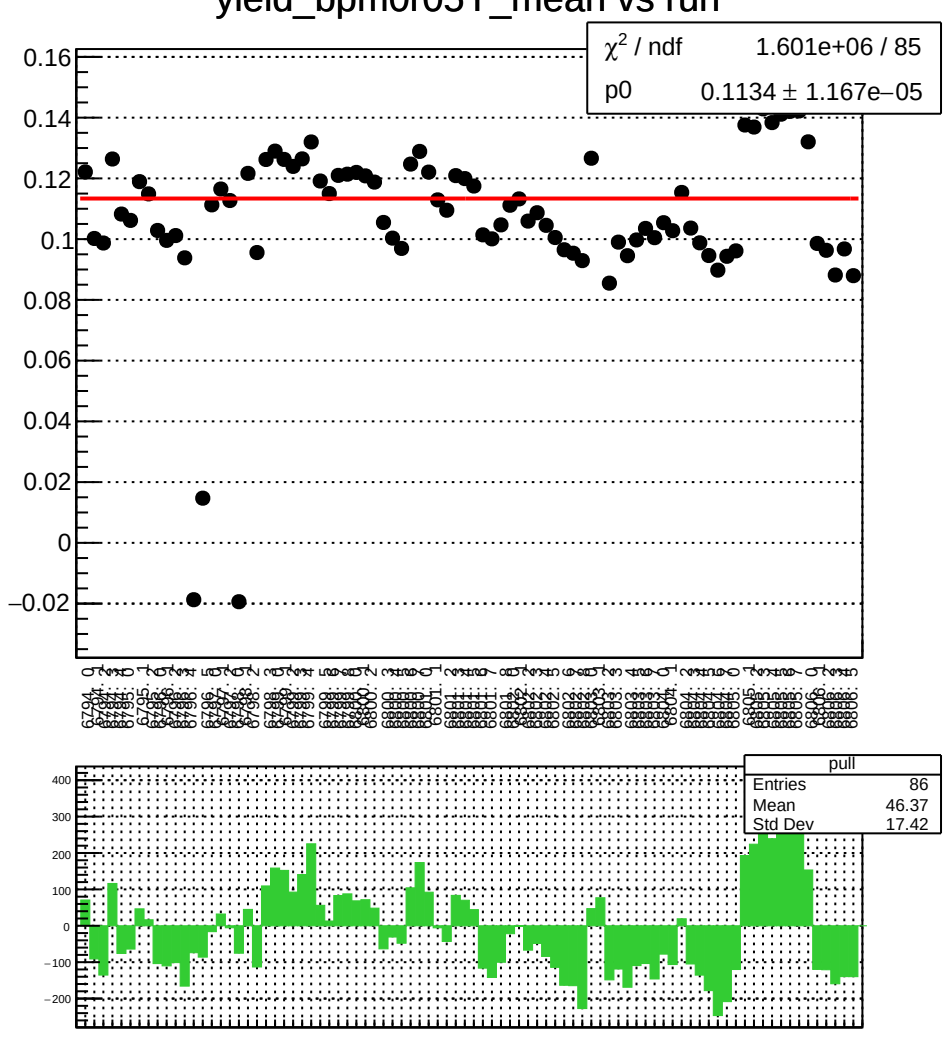

pull1D
Entries 86
Mean 2.449
Std Dev 2.732
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

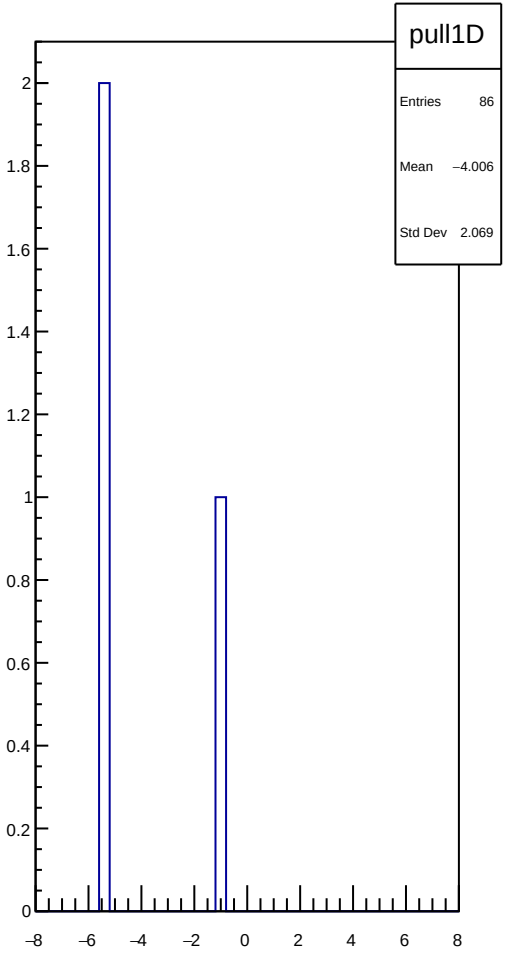

yield_bpm0r03Y_rms vs run
χ² / ndf 1.323e+05 / 85
p0 0.008541 ± 6.86e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

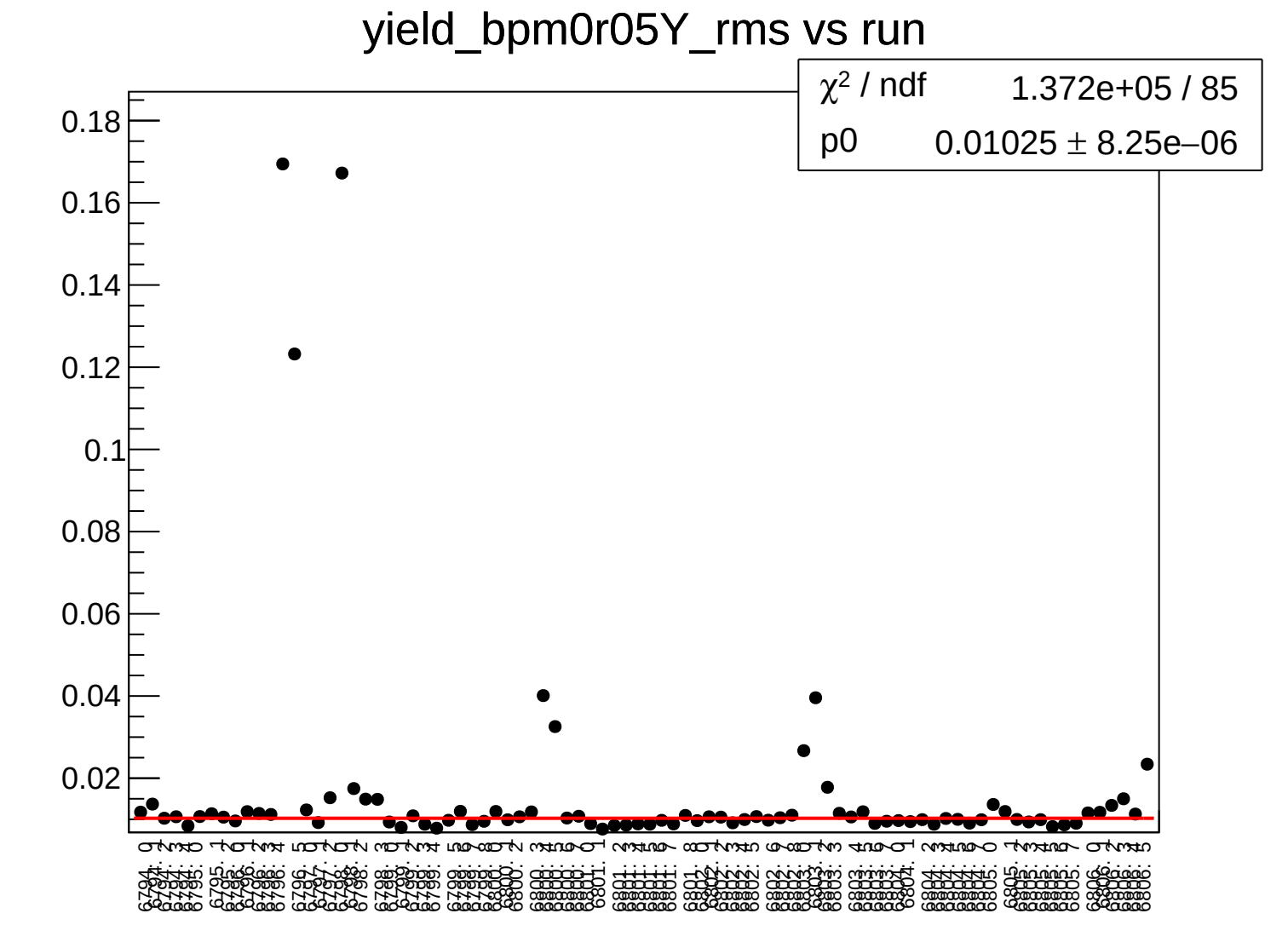

yield_bpm0r05X_mean vs run
χ² / ndf 6.971e+04 / 85
p0 −0.5793 ± 9.063e−05
pull
Entries 86
Mean −186.3
Std Dev 0

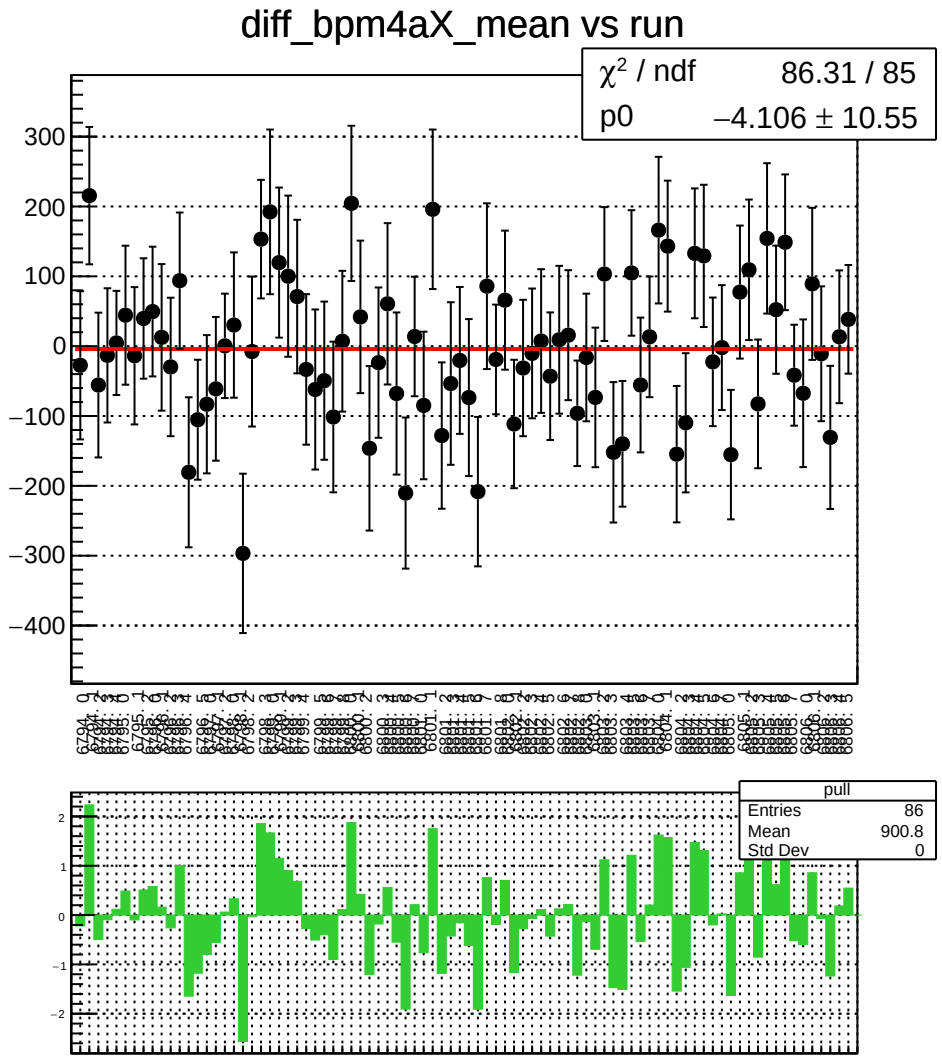

pull1D
Entries 86
Mean 1.324
Std Dev 4.167

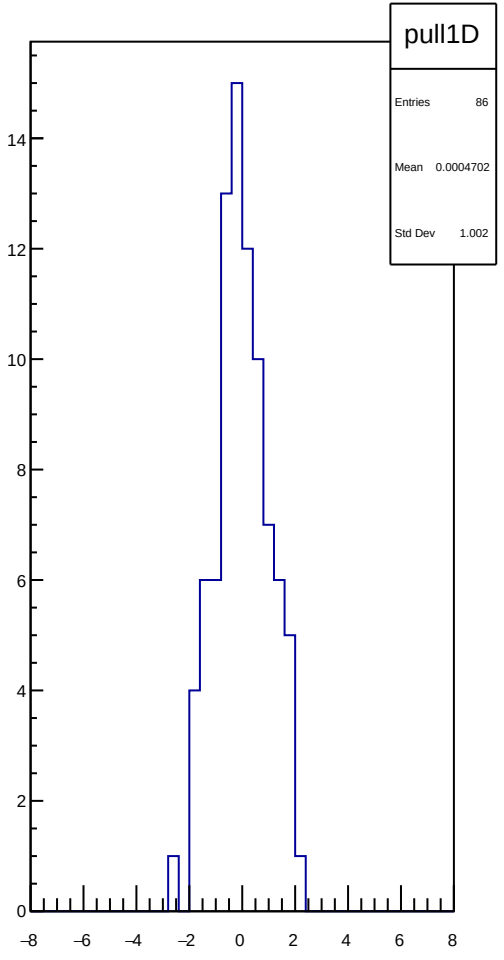

yield_bpm0r05X_rms vs run
χ² / ndf 2.174e+04 / 85
p0 0.08258 ± 6.409e–05
0.3
0.25
0.2
0.15
0.1

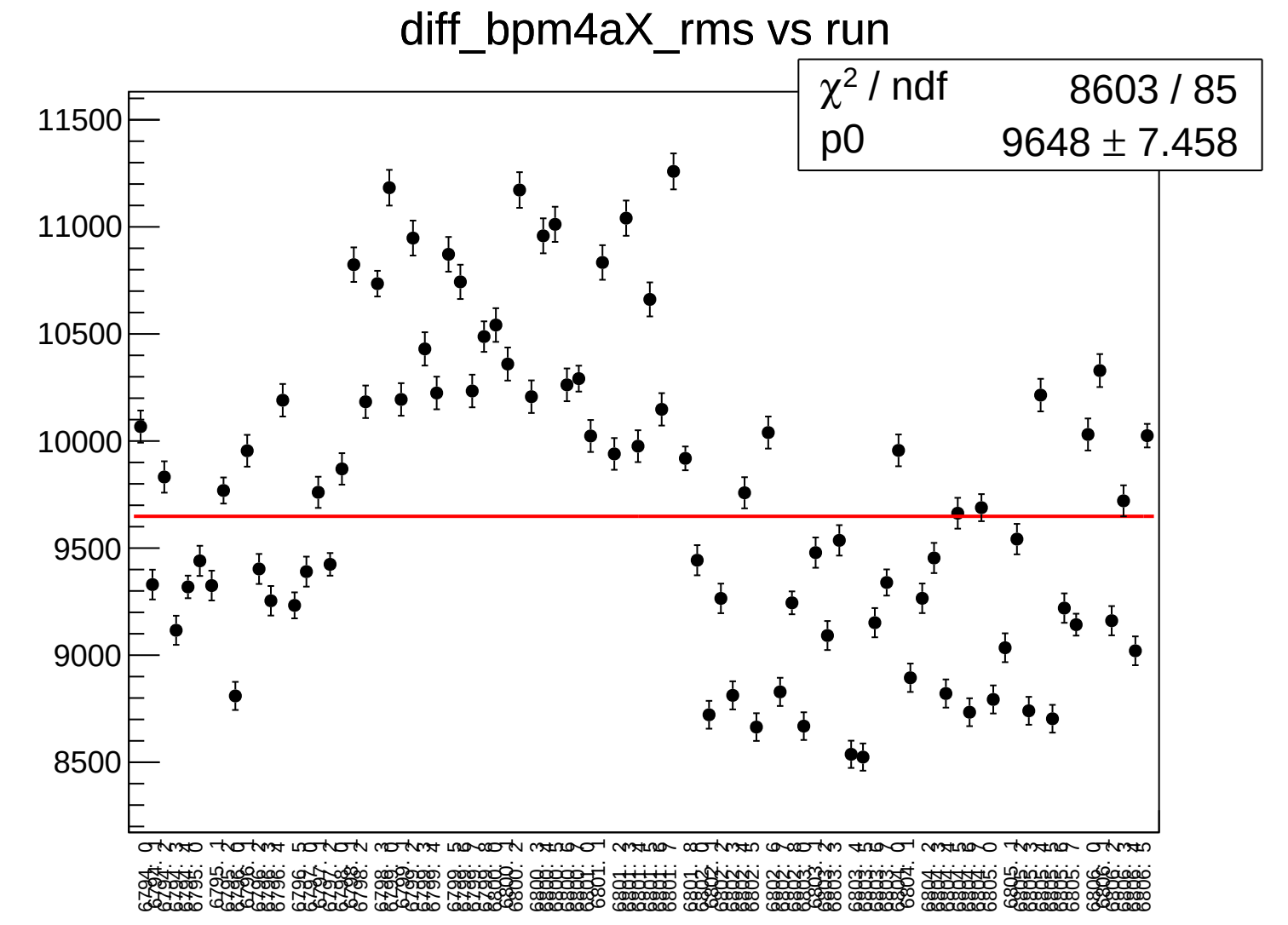

yield_bpm0r05Y_mean vs run
χ² / ndf 1.601e+06 / 85
p0 0.1134 ± 1.167e−05
pull
Entries 86
Mean 46.37
Std Dev 17.42

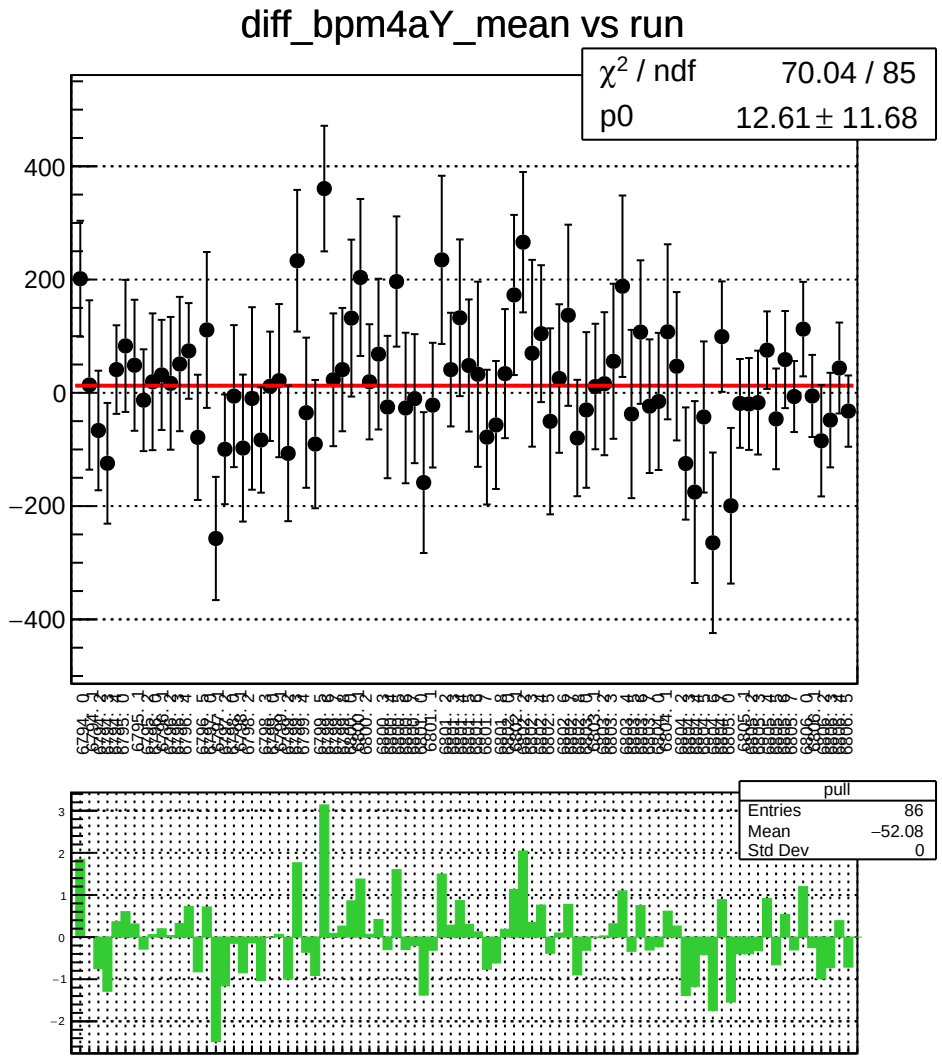

pull1D
Entries 86
Mean −4.006
Std Dev 2.069

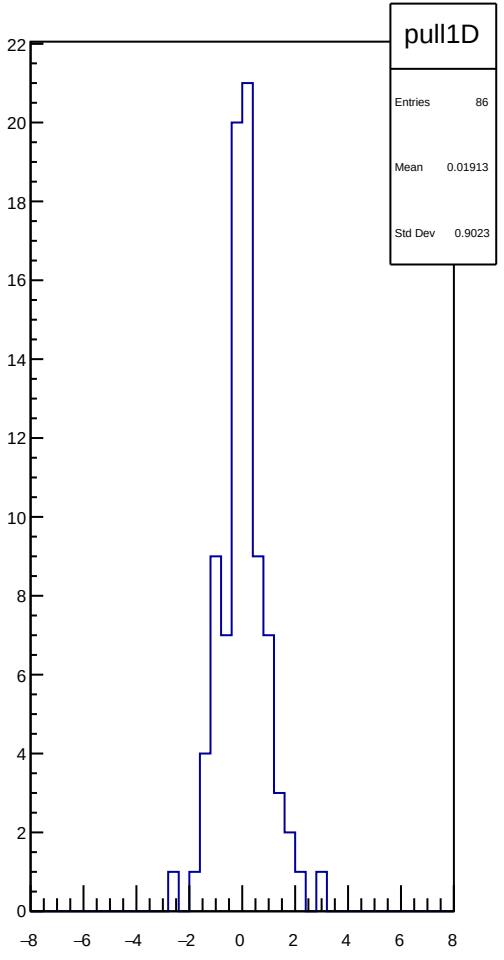

yield_bpm0r05Y_rms vs run
χ² / ndf 1.372e+05 / 85
p0 0.01025 ± 8.25e−06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

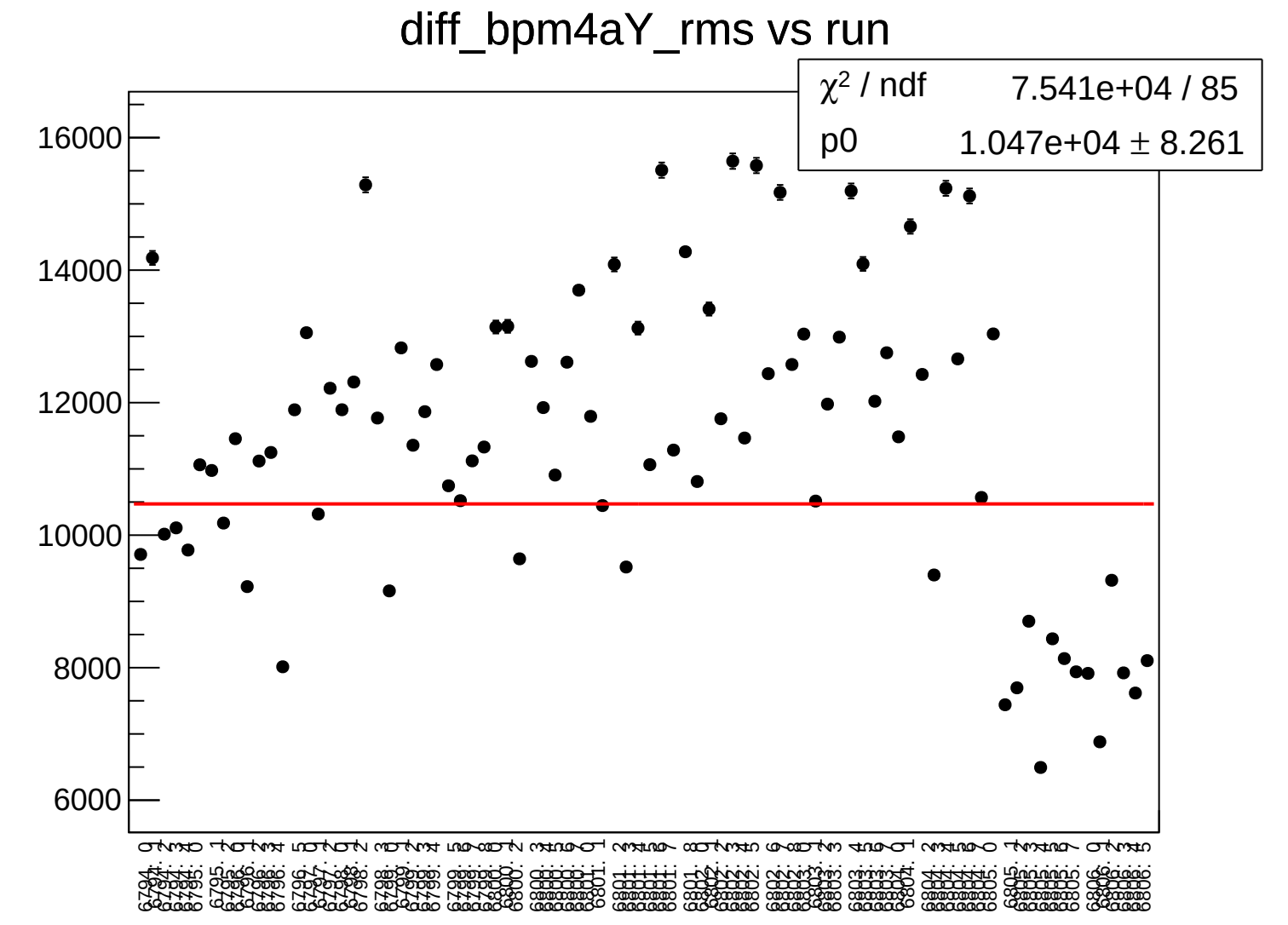

diff_bpm4aX_mean vs run
χ² / ndf 86.31 / 85
p0 −4.106 ± 10.55
pull
Entries 86
Mean 900.8
Std Dev 0

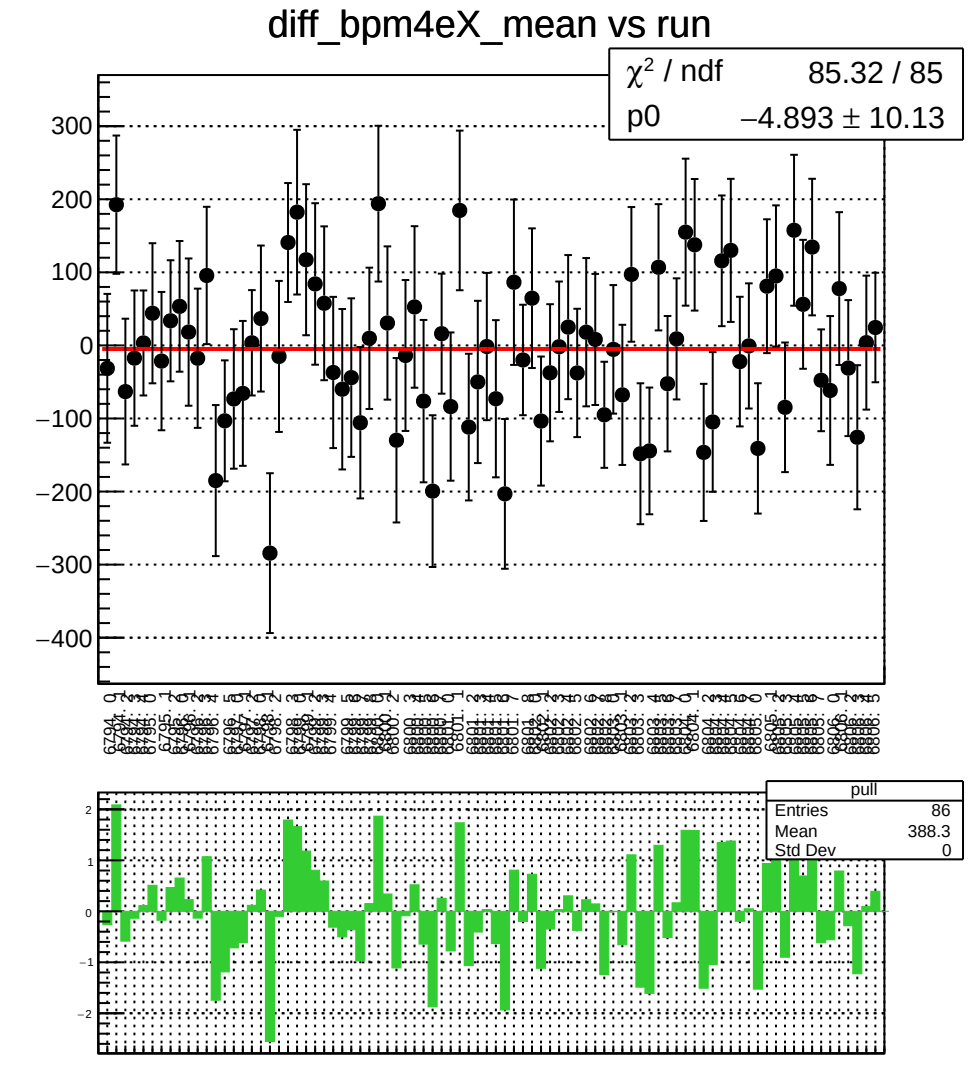

pull1D
Entries 86
Mean 0.0004702
Std Dev 1.002

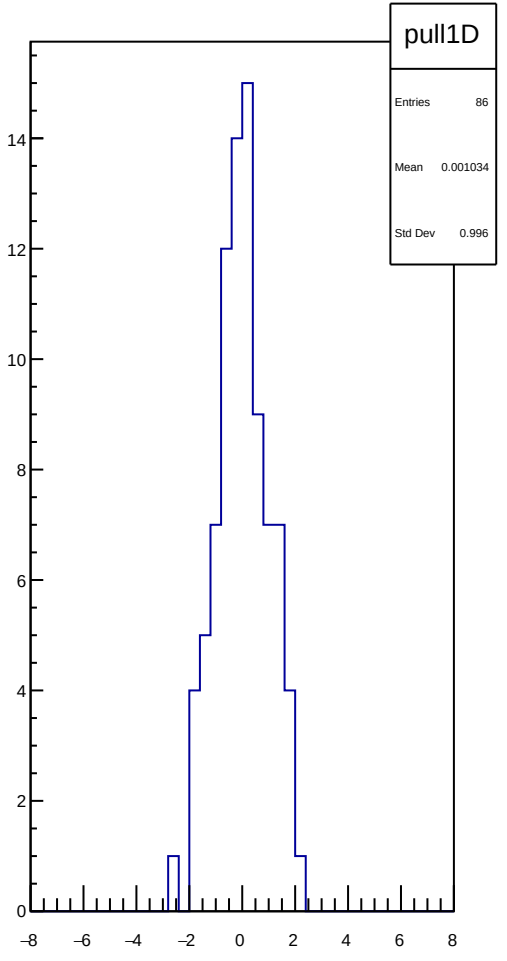

diff_bpm4aX_rms vs run
χ² / ndf 8603 / 85
p0 9648 ± 7.458
11500
11000
10500
10000
9500
9000
8500

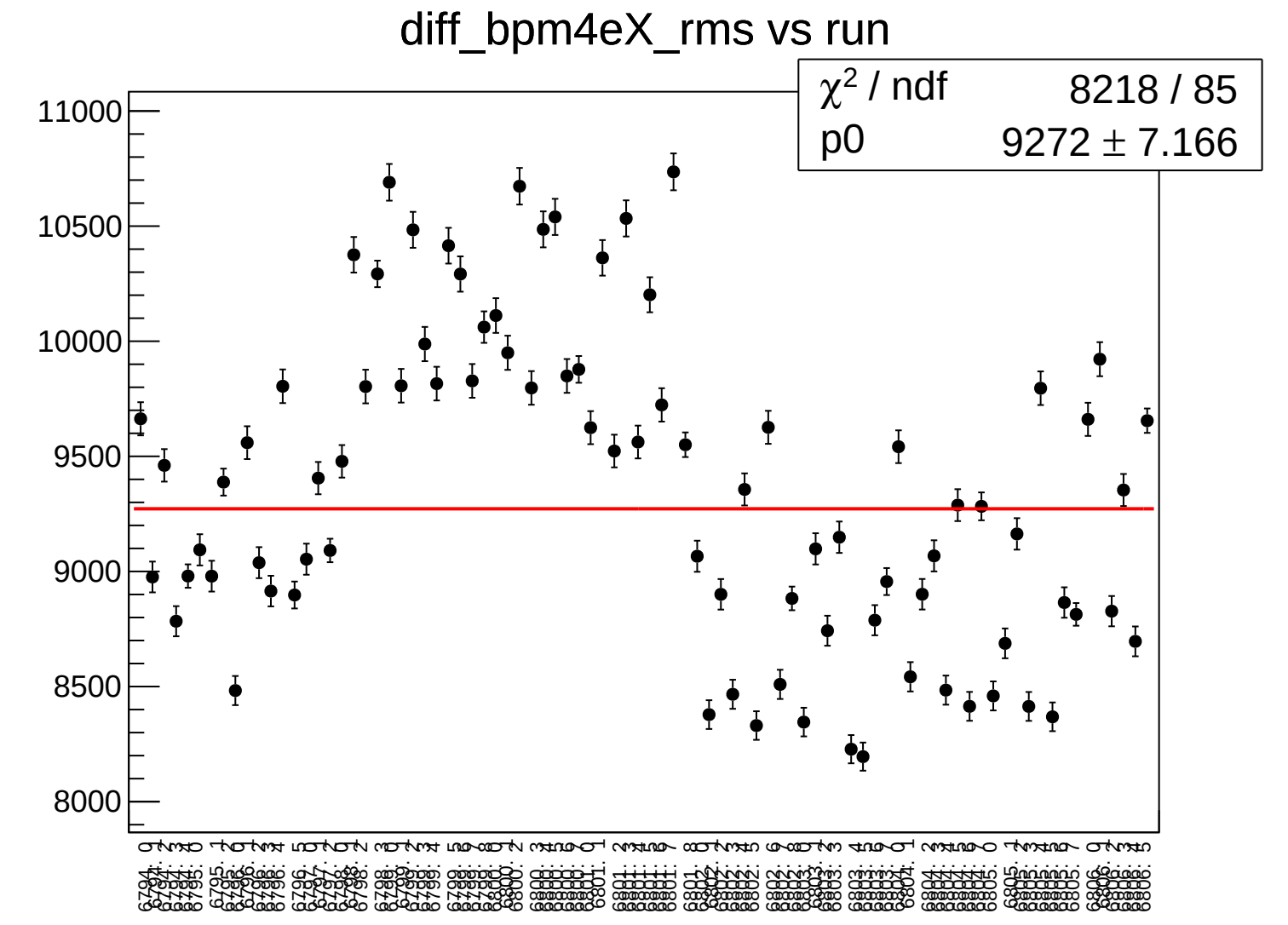

diff_bpm4aY_mean vs run
χ^2 / ndf 70.04 / 85
p0 12.61 ± 11.68
400
200
0
−200
−400
pull
Entries 86
Mean −52.08
Std Dev 0
3
2
1
0
−1
−2

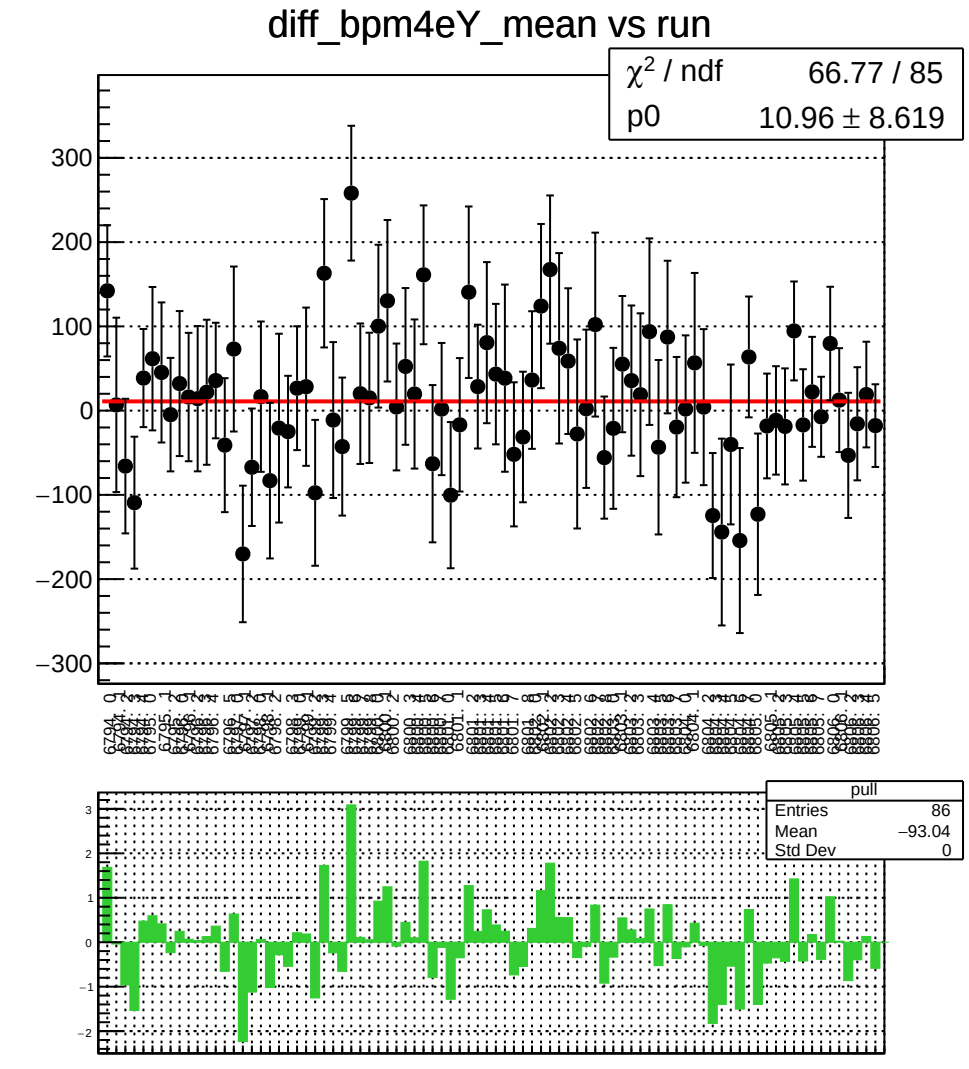

pull1D
Entries 86
Mean 0.01913
Std Dev 0.9023
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

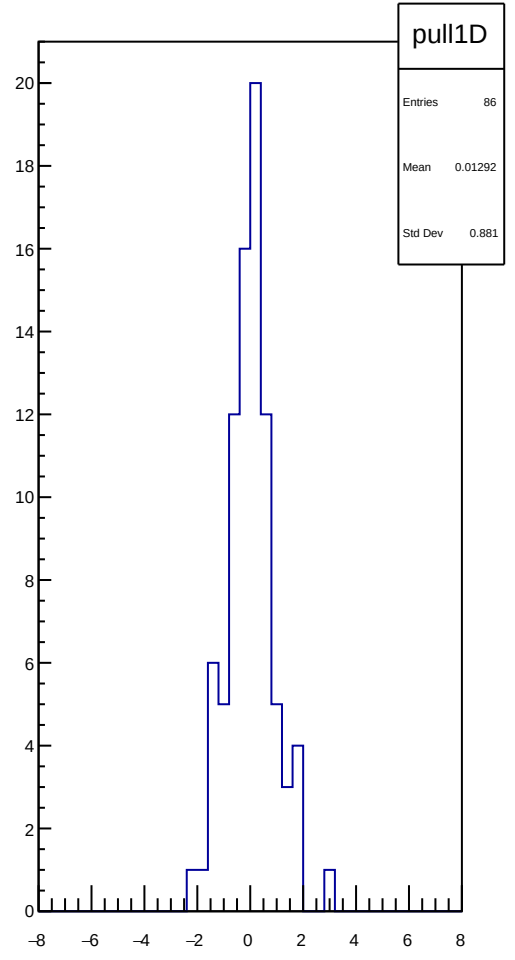

diff_bpm4aY_rms vs run
χ² / ndf 7.541e+04 / 85
p0 1.047e+04 ± 8.261
16000
14000
12000
10000
8000
6000

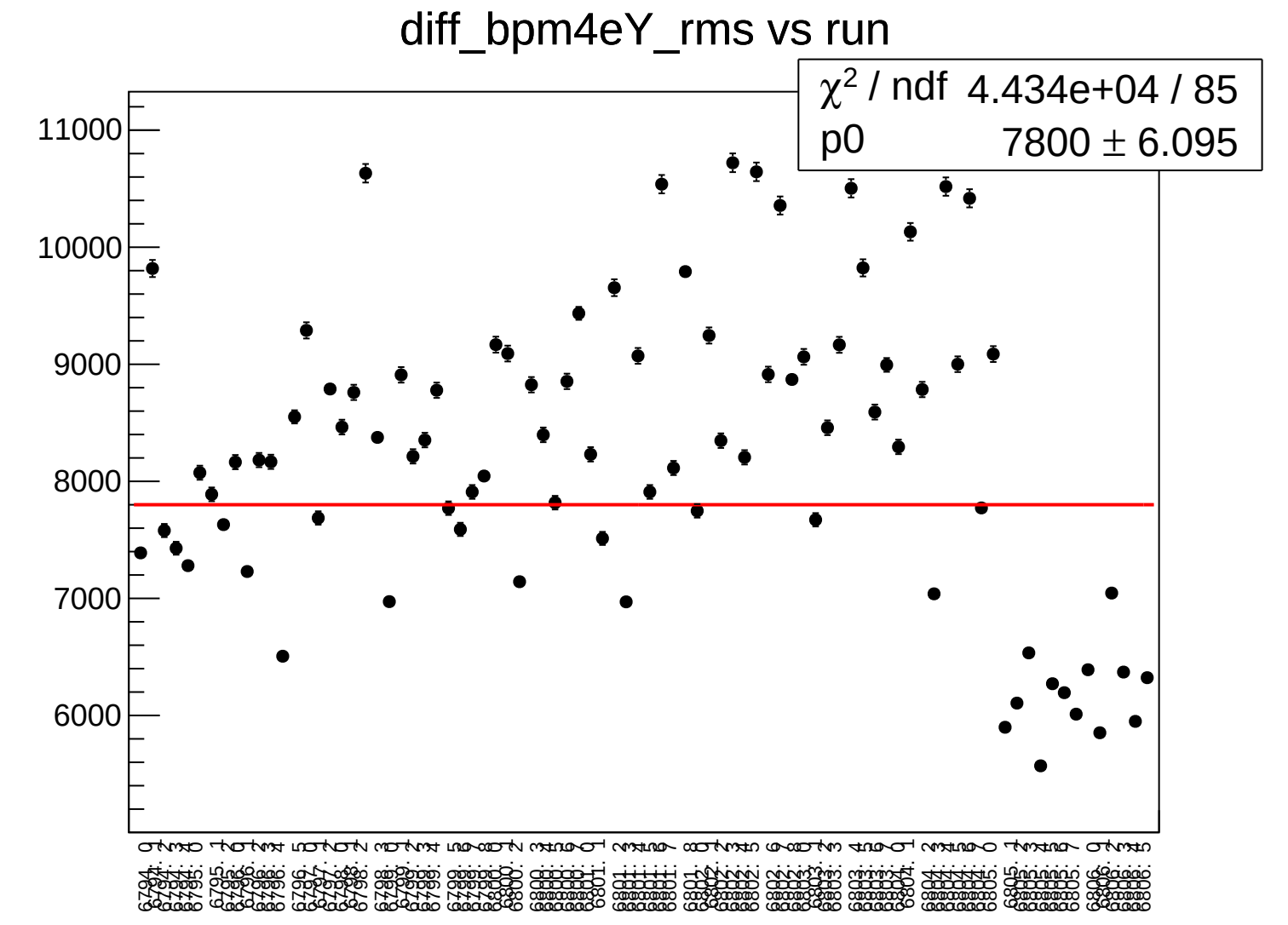

diff_bpm4eX_mean vs run
χ² / ndf 85.32 / 85
p0 −4.893 ± 10.13
pull
Entries 86
Mean 388.3
Std Dev 0

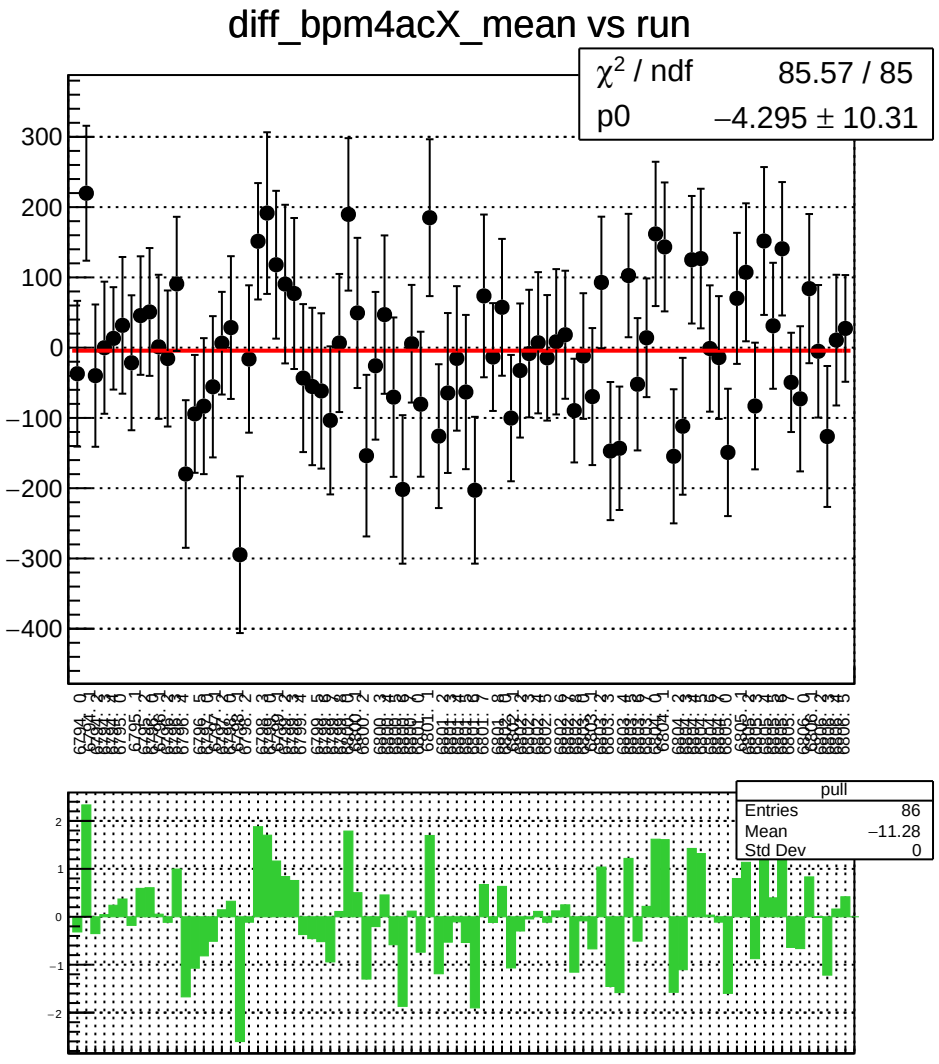

pull1D
Entries 86
Mean 0.001034
Std Dev 0.996

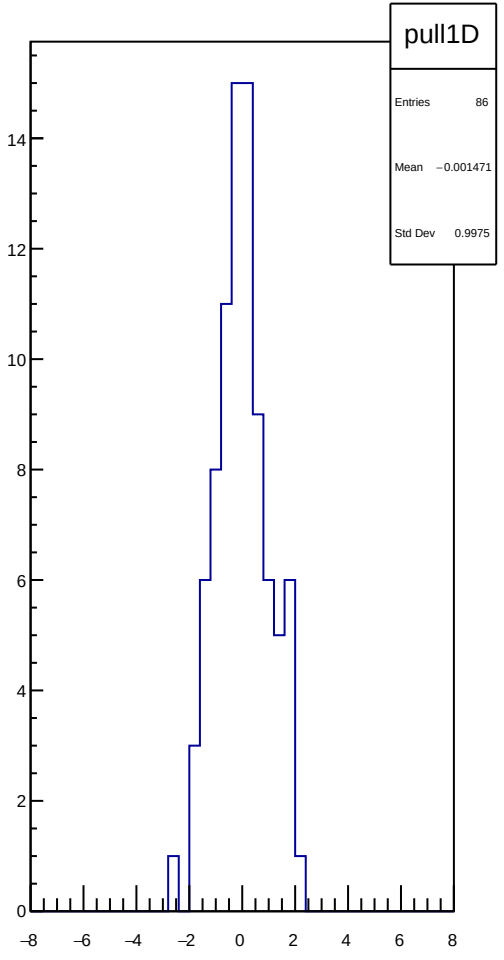

diff_bpm4eX_rms vs run
χ² / ndf 8218 / 85
p0 9272 ± 7.166
11000
10500
10000
9500
9000
8500
8000

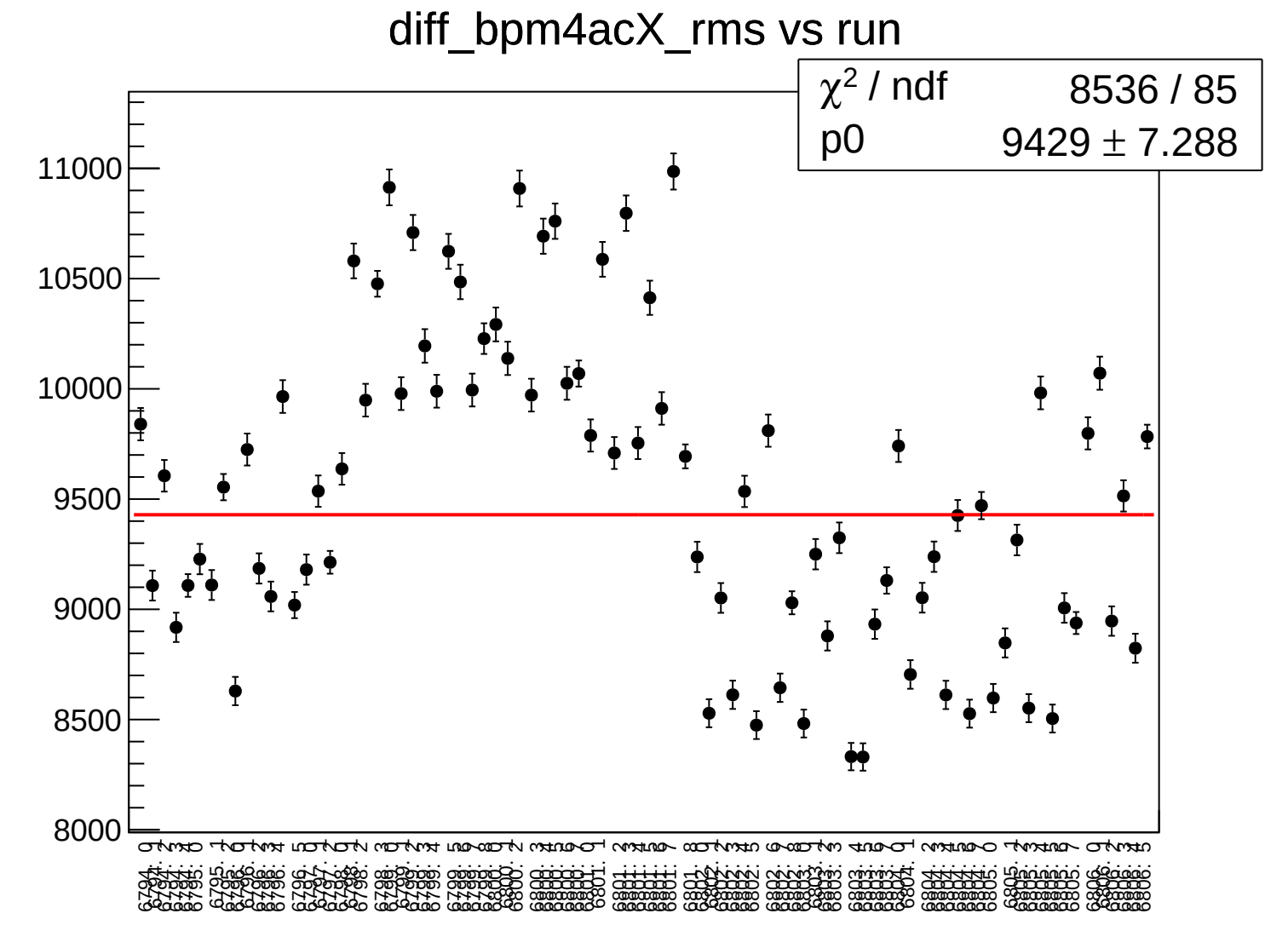

diff_bpm4eY_mean vs run
χ² / ndf 66.77 / 85
p0 10.96 ± 8.619
300
200
100
0
−100
−200
−300
pull
Entries 86
Mean −93.04
Std Dev 0
3
2
1
0
−1
−2

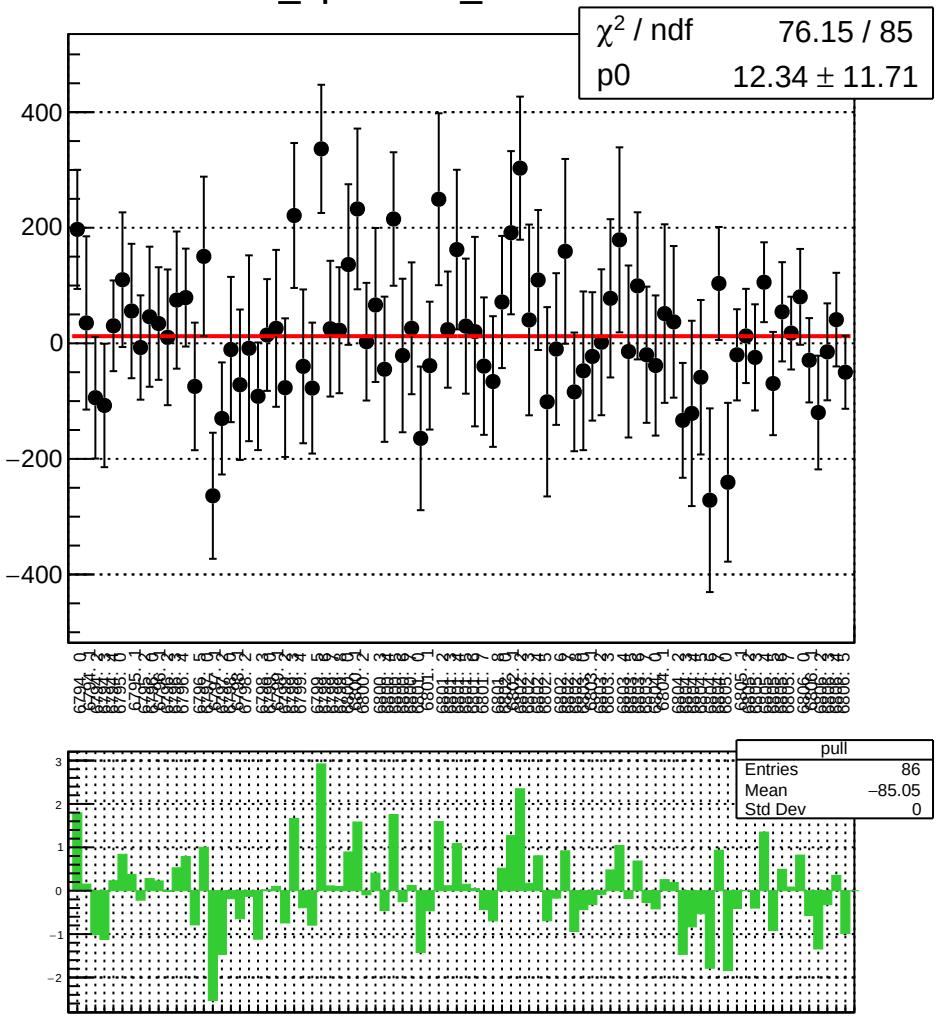

pull1D
Entries 86
Mean 0.01292
Std Dev 0.881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

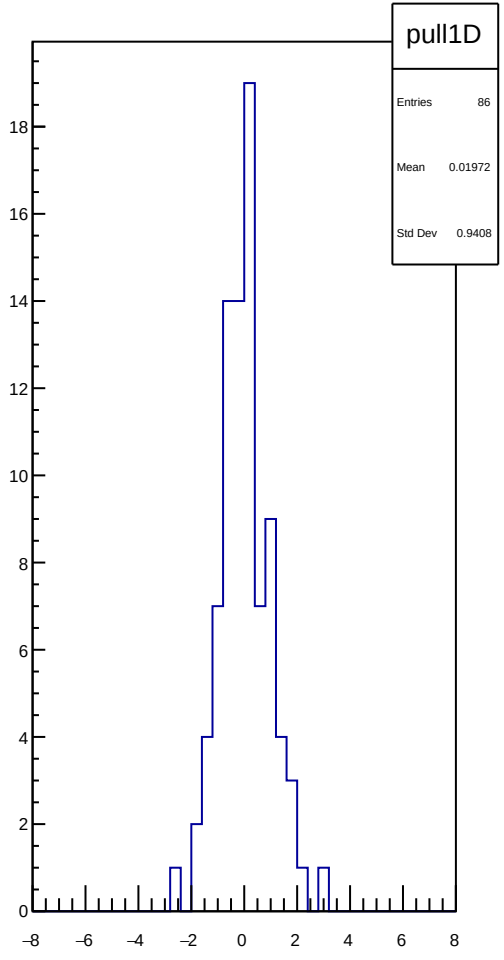

diff_bpm4eY_rms vs run
χ² / ndf 4.434e+04 / 85
p0 7800 ± 6.095
11000
10000
9000
8000
7000
6000

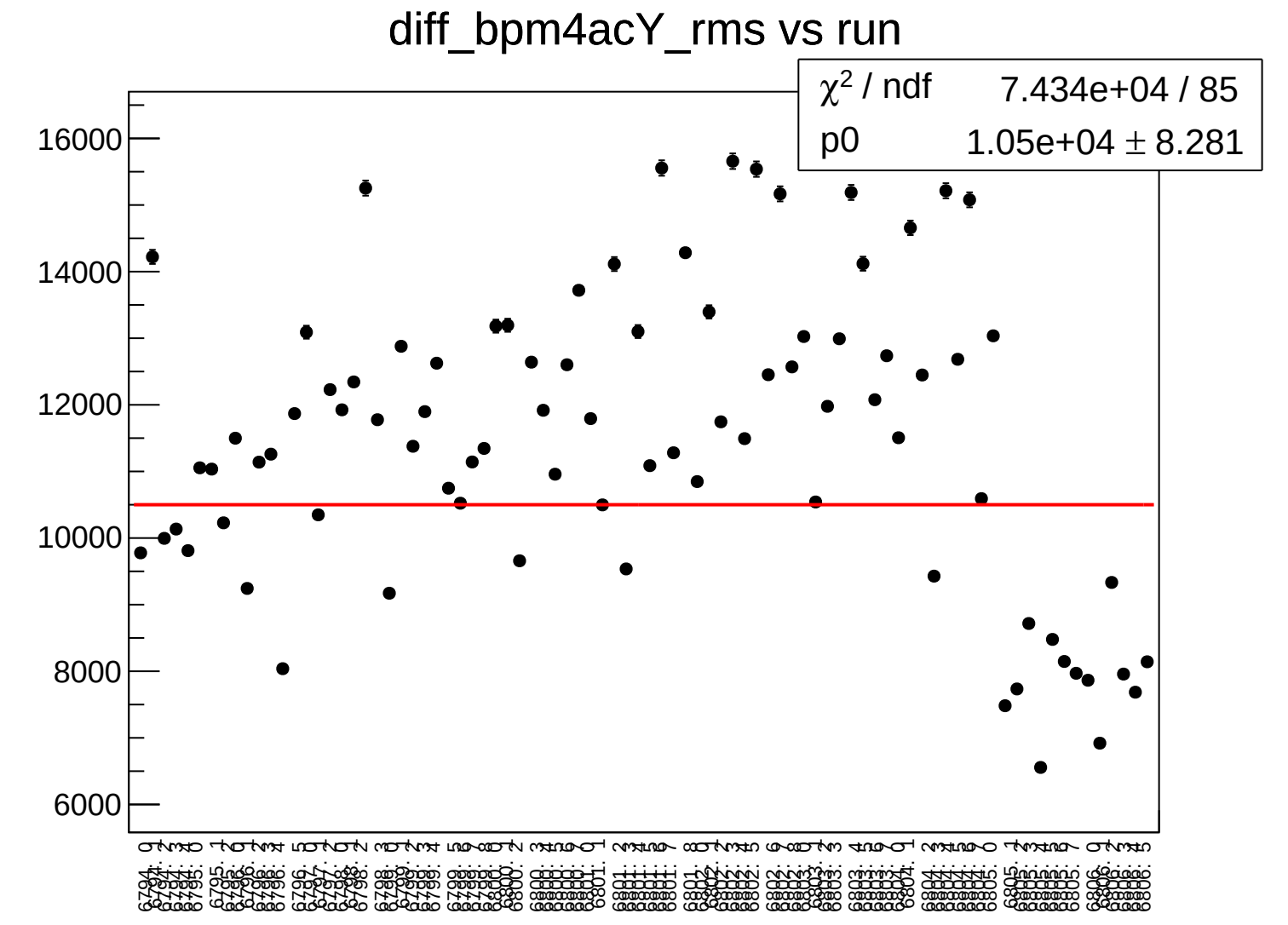

diff_bpm4acX_mean vs run
χ² / ndf 85.57 / 85
p0 −4.295 ± 10.31
pull
Entries 86
Mean −11.28
Std Dev 0

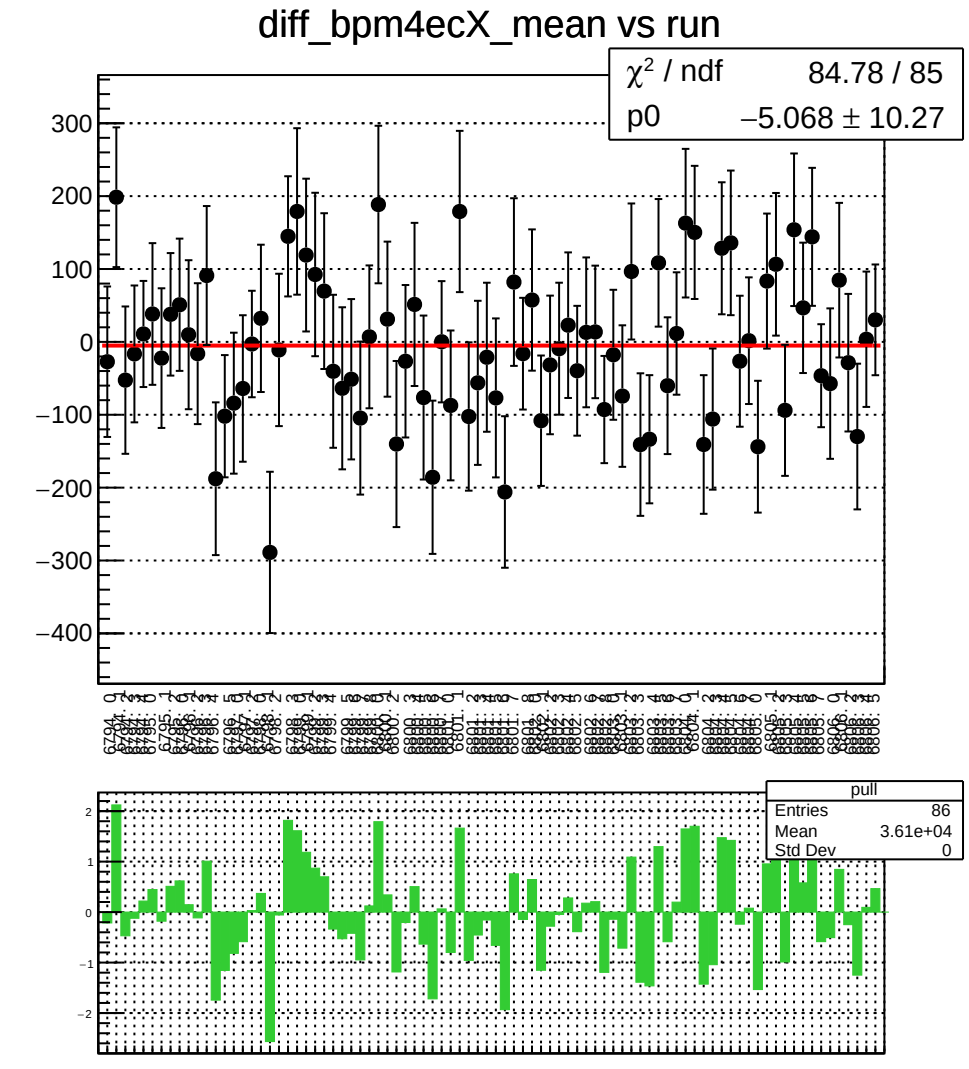

pull1D
Entries 86
Mean −0.001471
Std Dev 0.9975

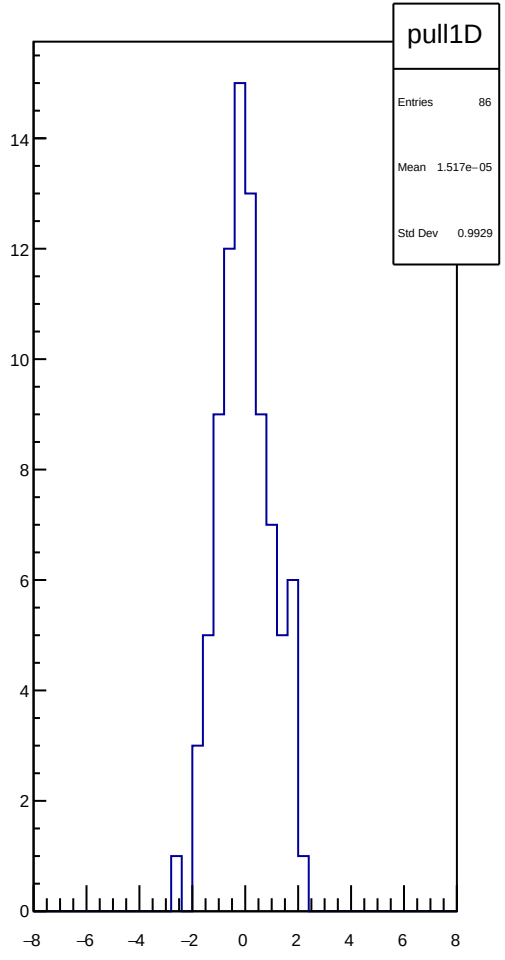

diff_bpm4acX_rms vs run
χ² / ndf 8536 / 85
p0 9429 ± 7.288
11000
10500
10000
9500
9000
8500
8000

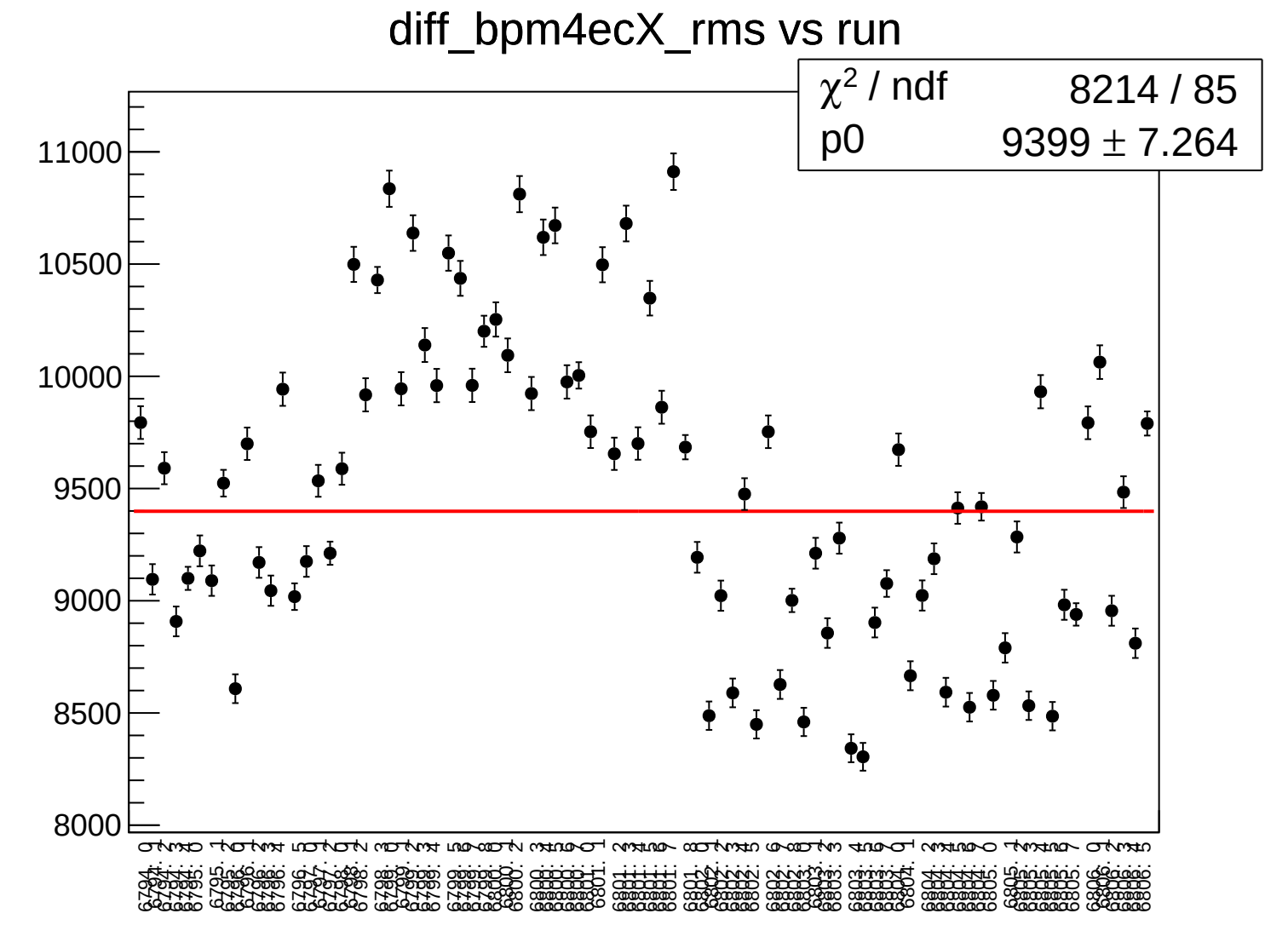

diff_bpm4acY_mean vs run
χ² / ndf 76.15 / 85
p0 12.34 ± 11.71
400
200
0
−200
−400
pull
Entries 86
Mean −85.05
Std Dev 0
3
2
1
0
−1
−2

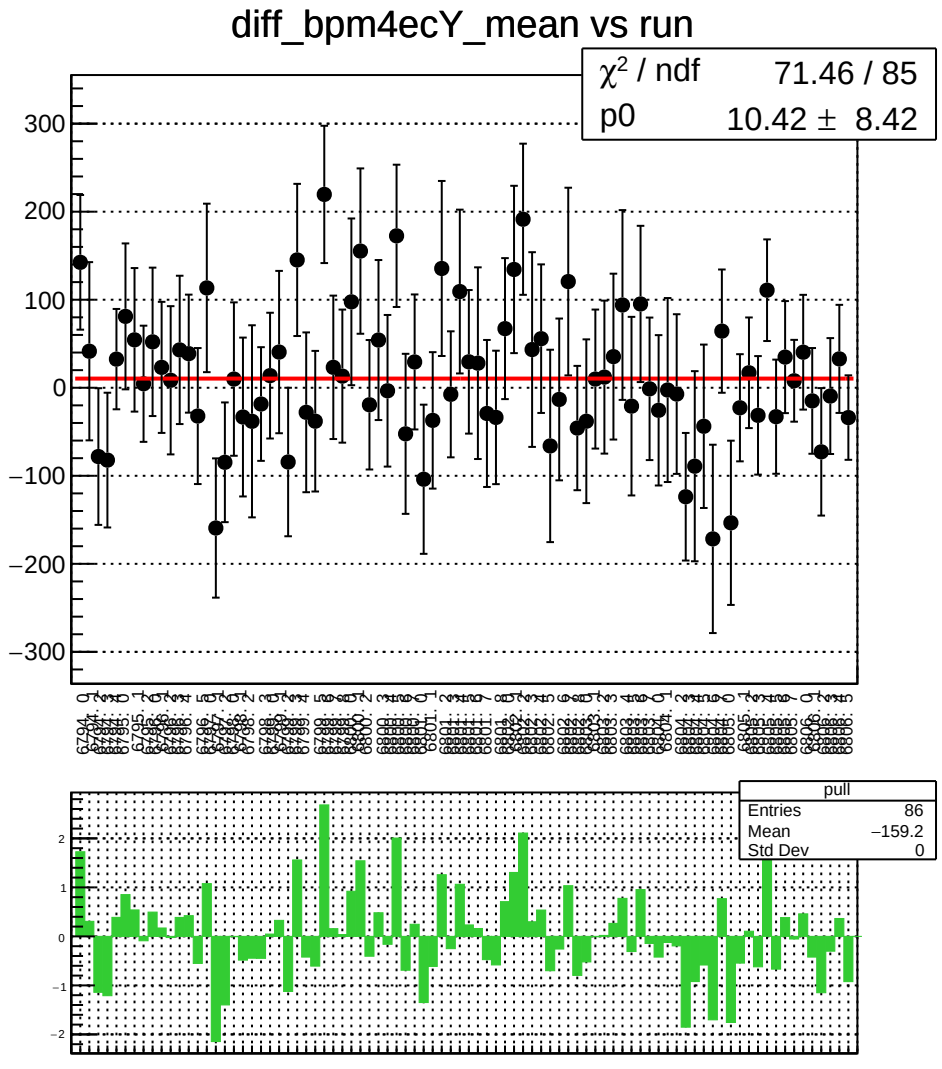

pull1D
Entries 86
Mean 0.01972
Std Dev 0.9408
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

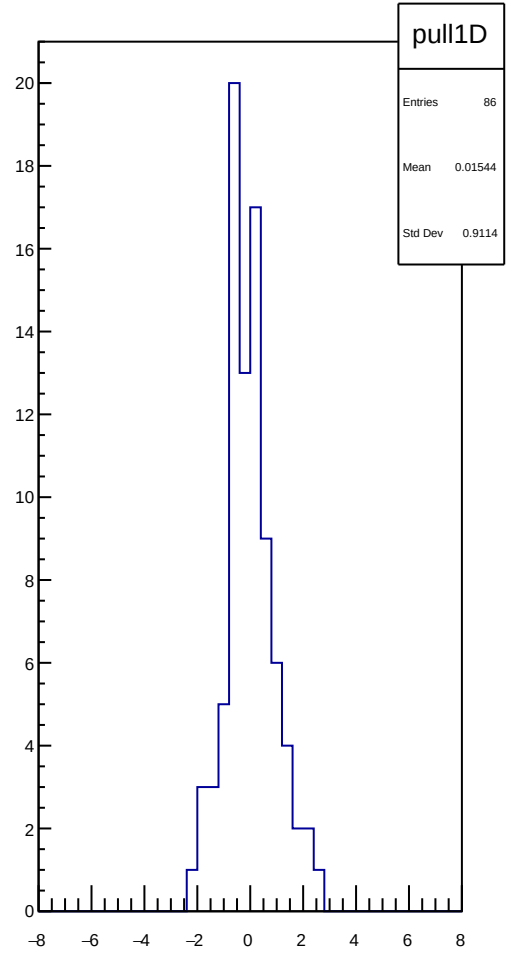

diff_bpm4acY_rms vs run
χ² / ndf 7.434e+04 / 85
p0 1.05e+04 ± 8.281
16000
14000
12000
10000
8000
6000

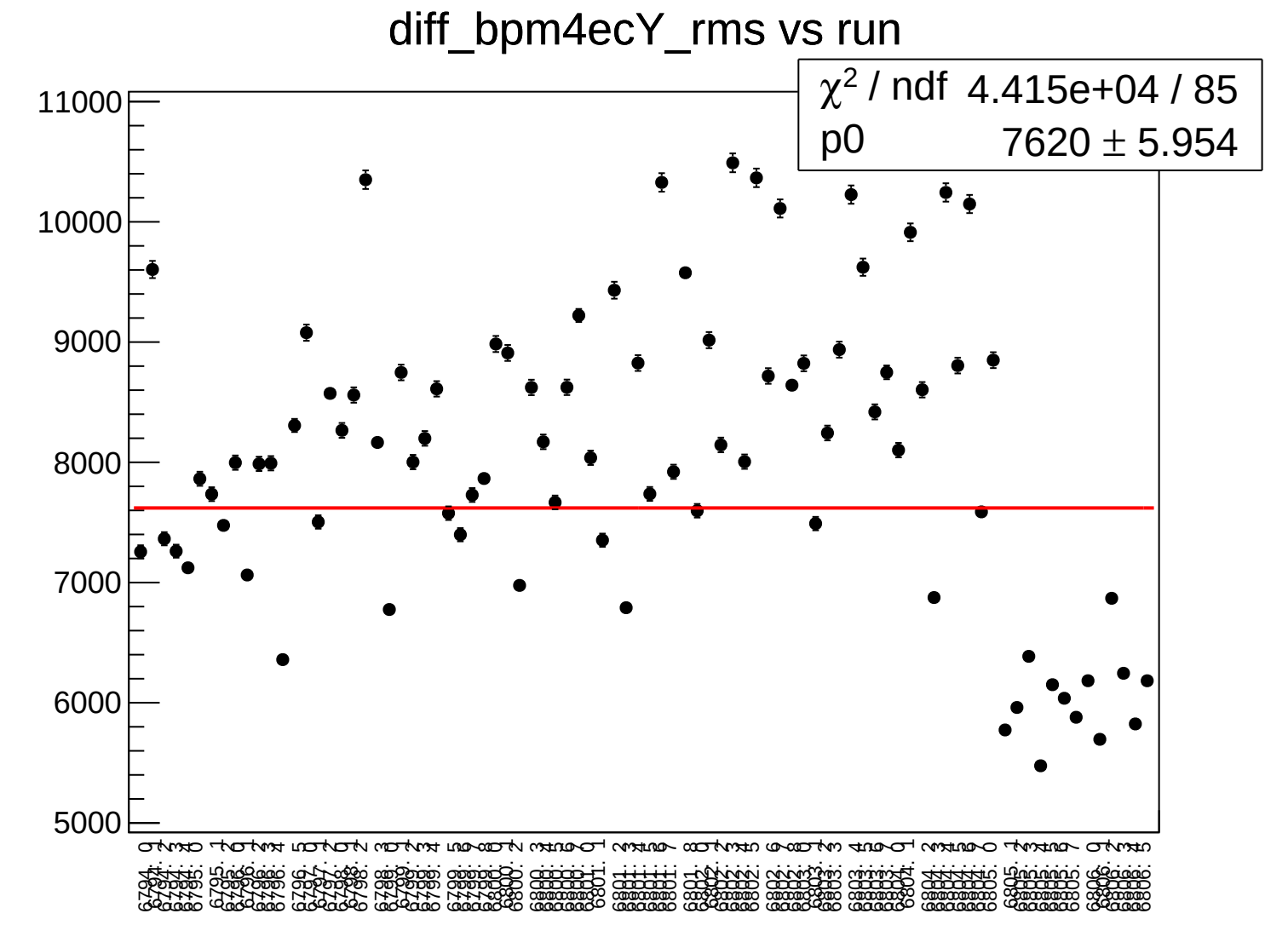

diff_bpm4ecX_mean vs run
χ² / ndf 84.78 / 85
p0 −5.068 ± 10.27
pull
Entries 86
Mean 3.61e+04
Std Dev 0

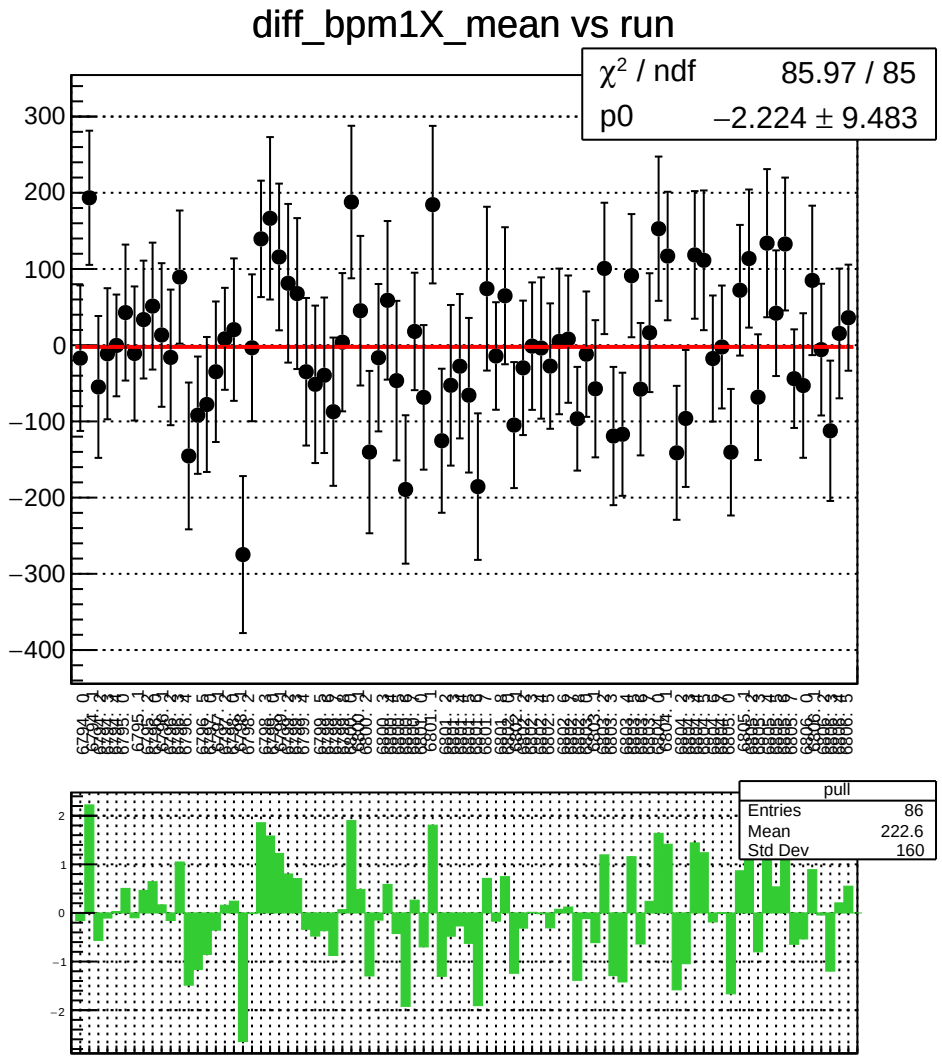

pull1D
Entries 86
Mean 1.517e−05
Std Dev 0.9929

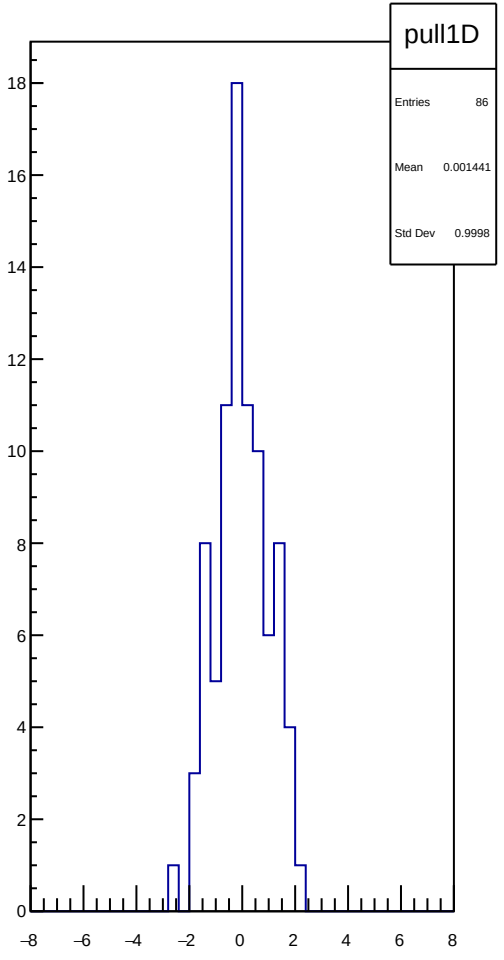

diff_bpm4ecX_rms vs run
χ² / ndf 8214 / 85
p0 9399 ± 7.264
11000
10500
10000
9500
9000
8500
8000

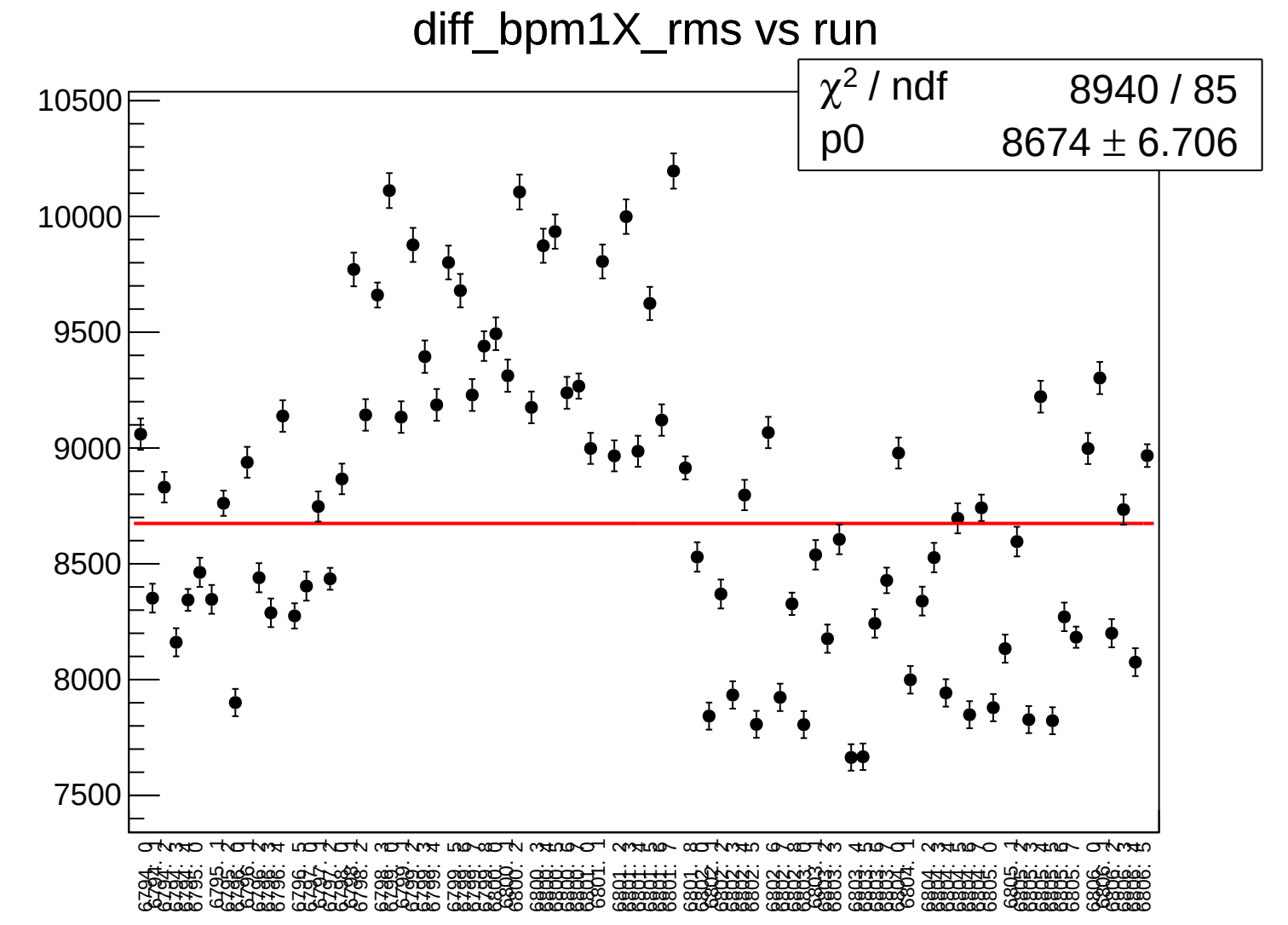

diff_bpm4ecY_mean vs run
χ² / ndf 71.46 / 85
p0 10.42 ± 8.42
pull
Entries 86
Mean −159.2
Std Dev 0

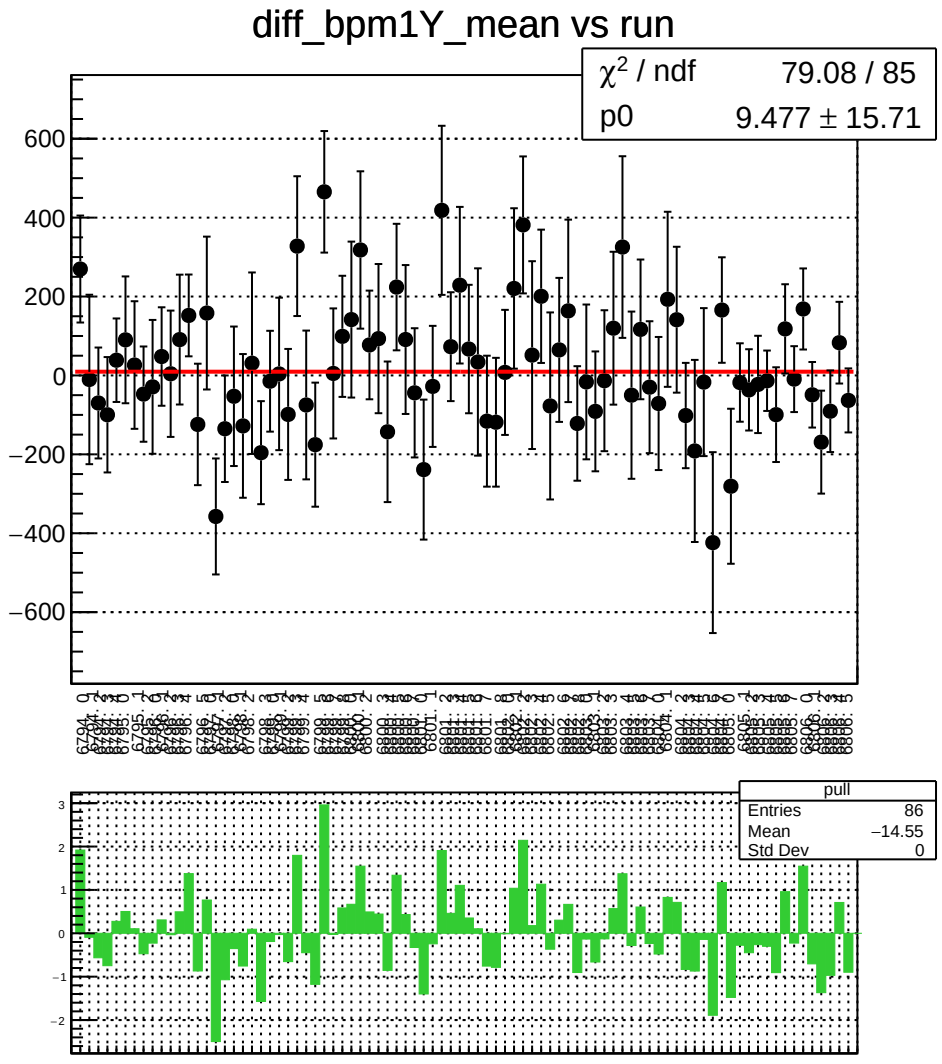

pull1D
Entries 86
Mean 0.01544
Std Dev 0.9114

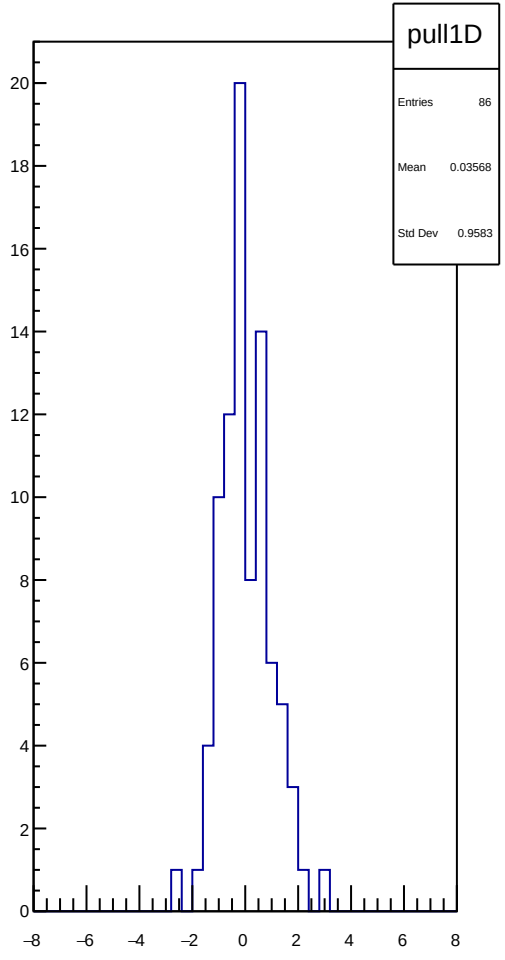

diff_bpm4ecY_rms vs run
χ² / ndf 4.415e+04 / 85
p0 7620 ± 5.954
11000
10000
9000
8000
7000
6000
5000

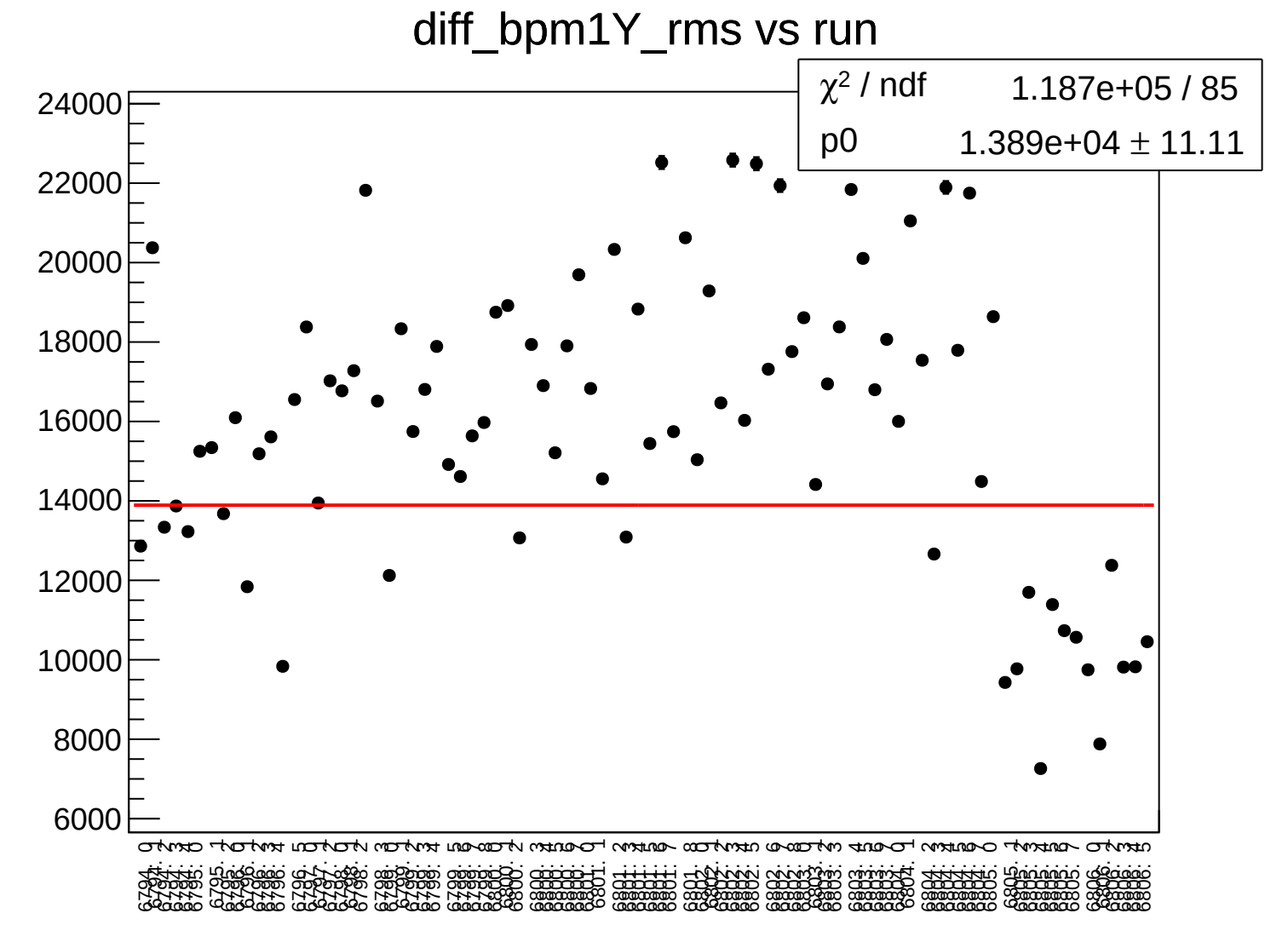

diff_bpm1X_mean vs run
χ² / ndf 85.97 / 85
p0 −2.224 ± 9.483
pull
Entries 86
Mean 222.6
Std Dev 160

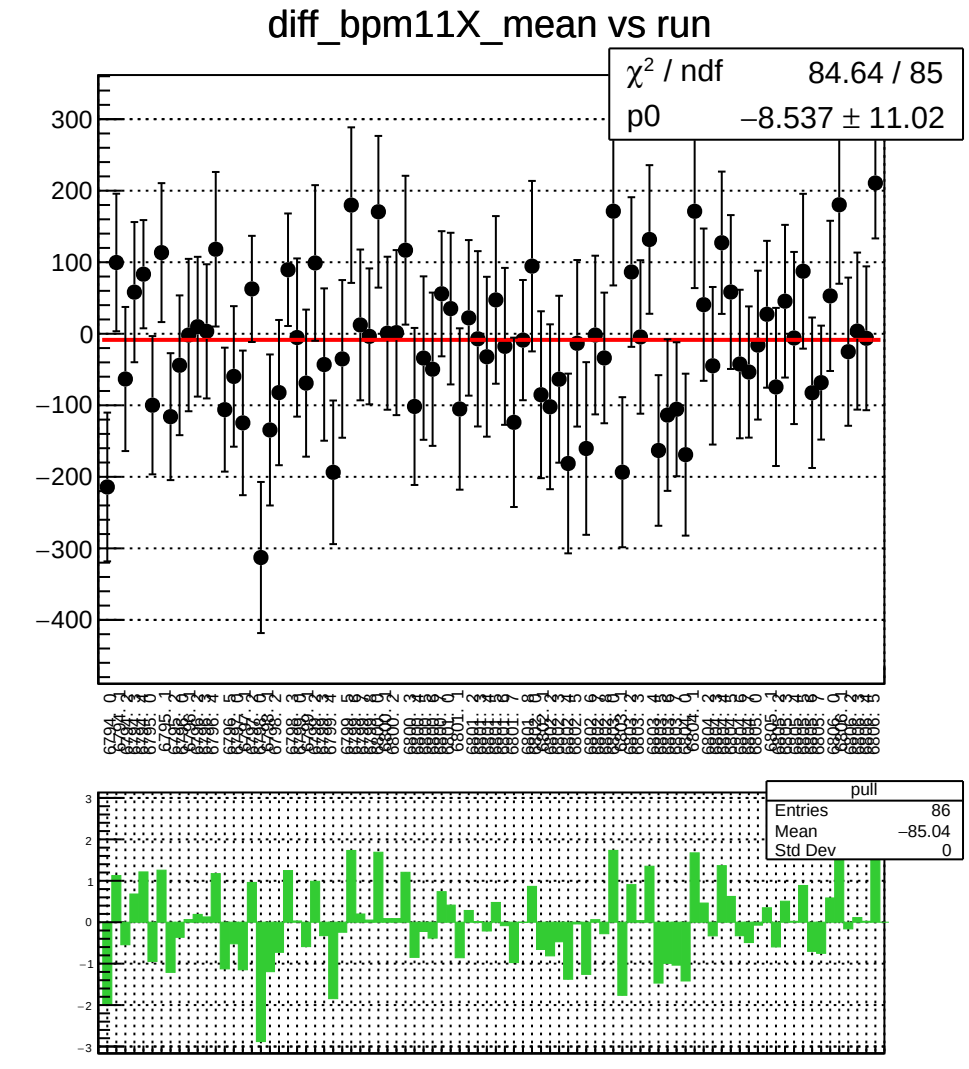

pull1D
Entries 86
Mean 0.001441
Std Dev 0.9998

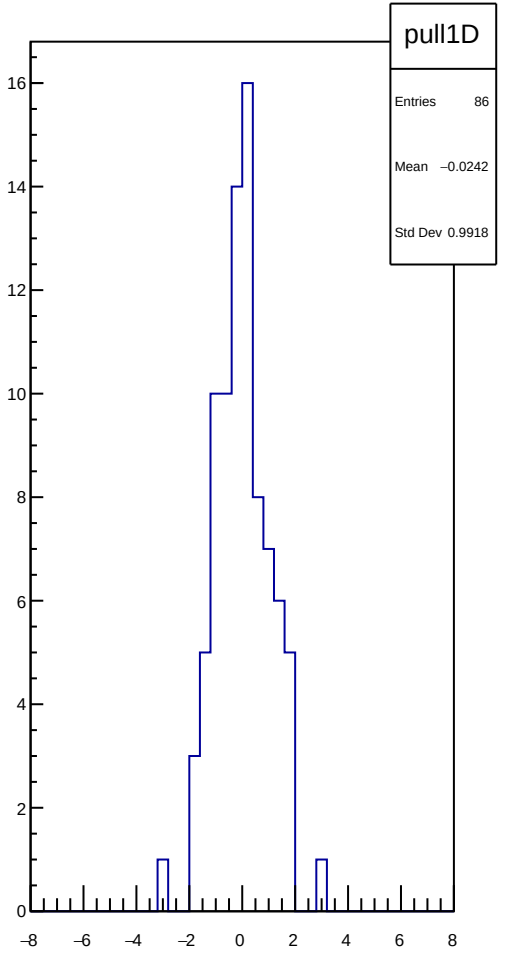

diff_bpm1X_rms vs run
χ^2 / ndf 8940 / 85
p0 8674 ± 6.706
10500
10000
9500
9000
8500
8000
7500

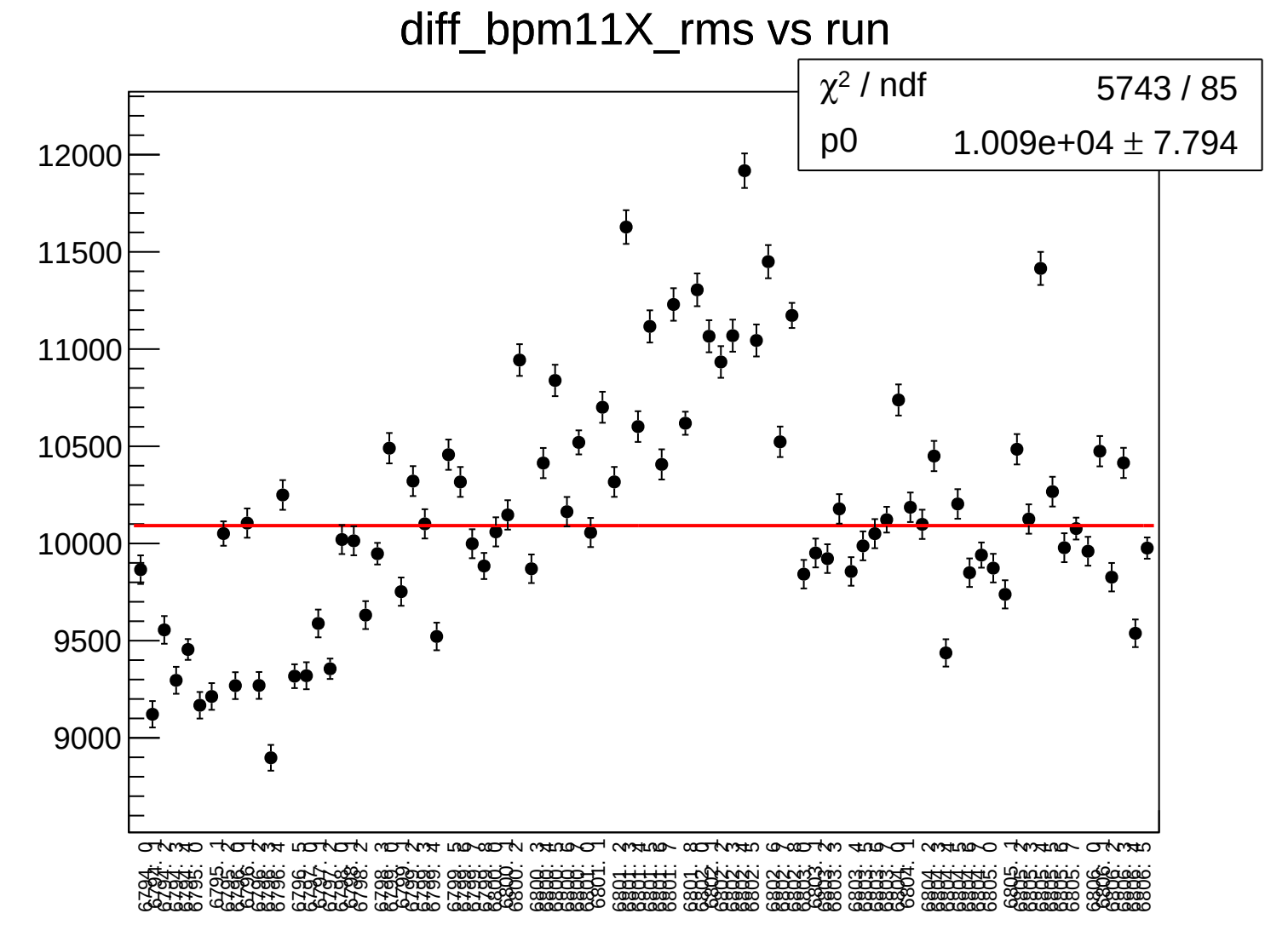

diff_bpm1Y_mean vs run
χ² / ndf 79.08 / 85
p0 9.477 ± 15.71
pull
Entries 86
Mean −14.55
Std Dev 0

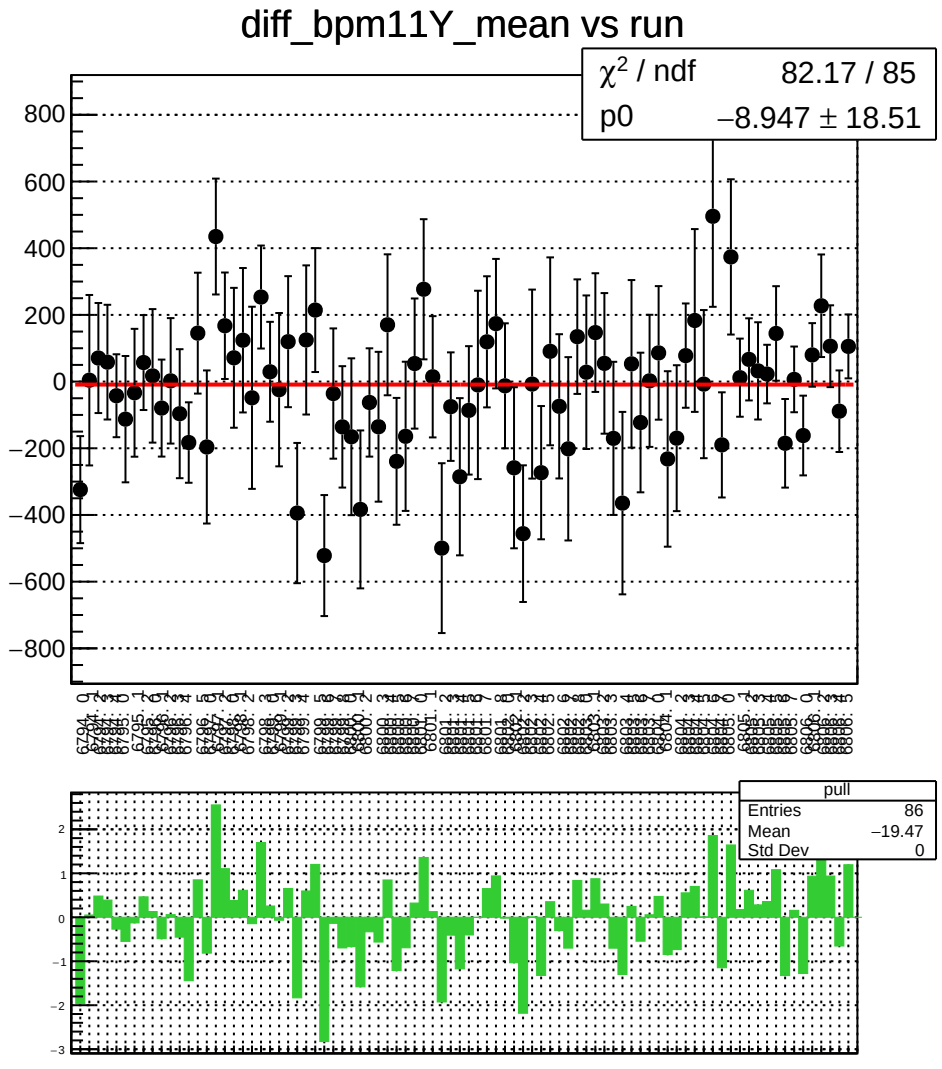

pull1D
Entries 86
Mean 0.03568
Std Dev 0.9583

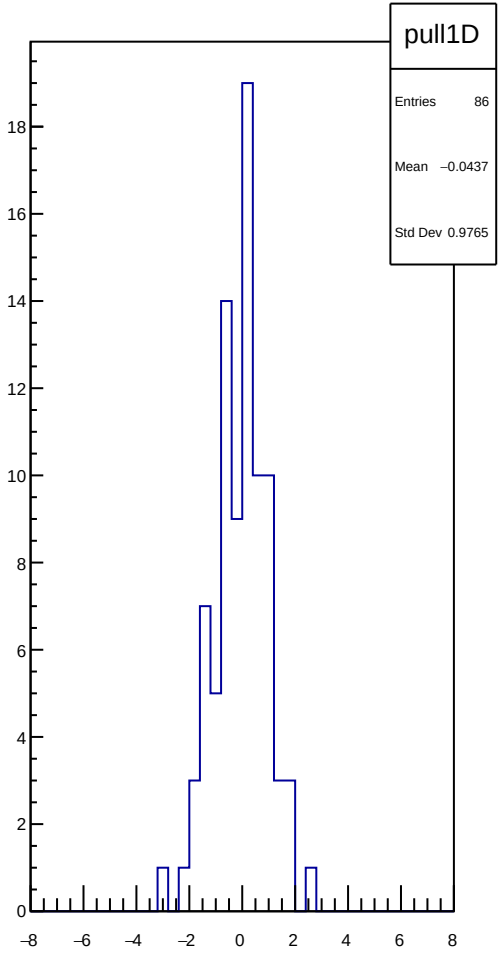

diff_bpm1Y_rms vs run
χ² / ndf 1.187e+05 / 85
p0 1.389e+04 ± 11.11
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

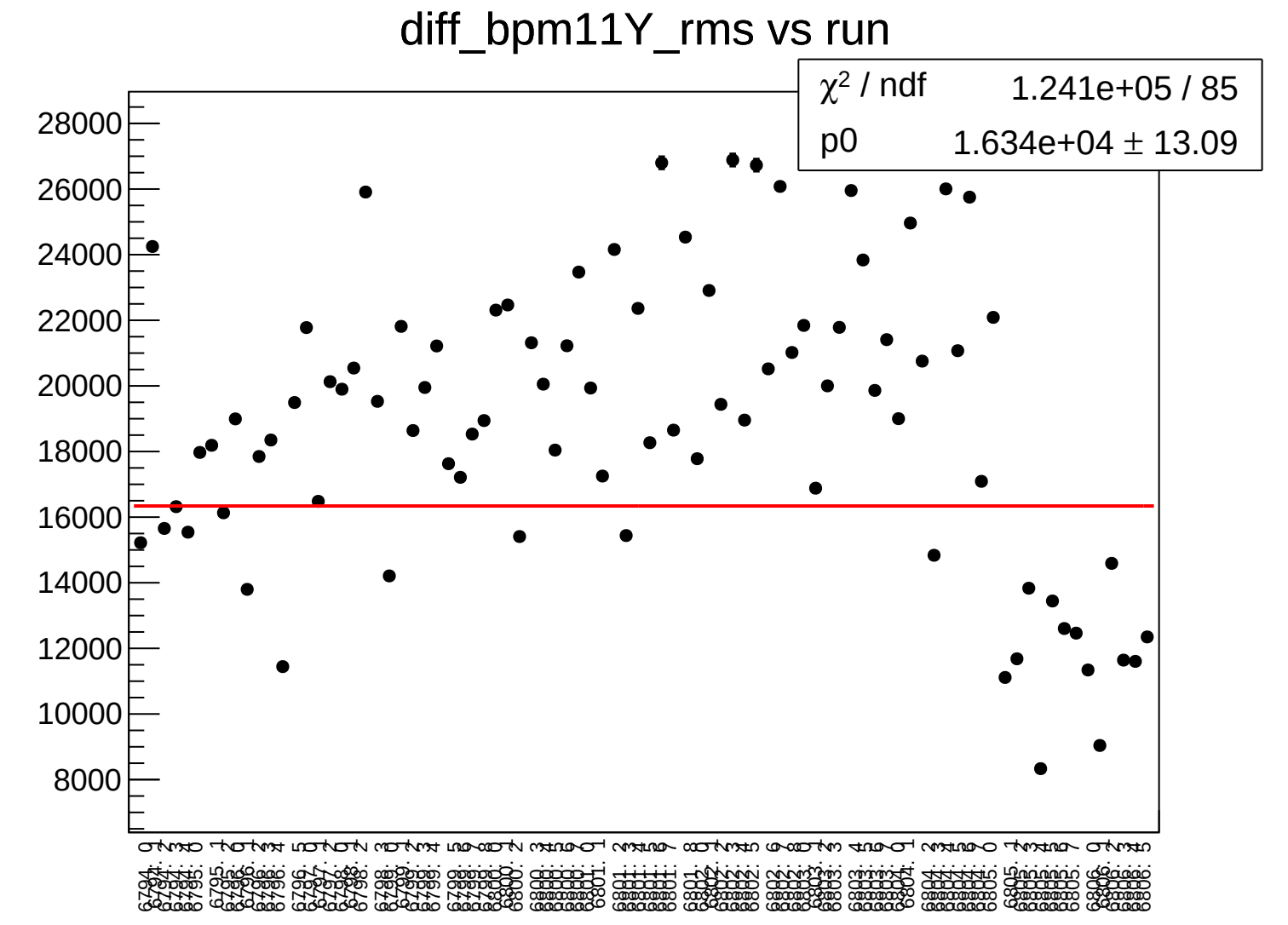

diff_bpm11X_mean vs run
χ² / ndf 84.64 / 85
p0 −8.537 ± 11.02
pull
Entries 86
Mean −85.04
Std Dev 0

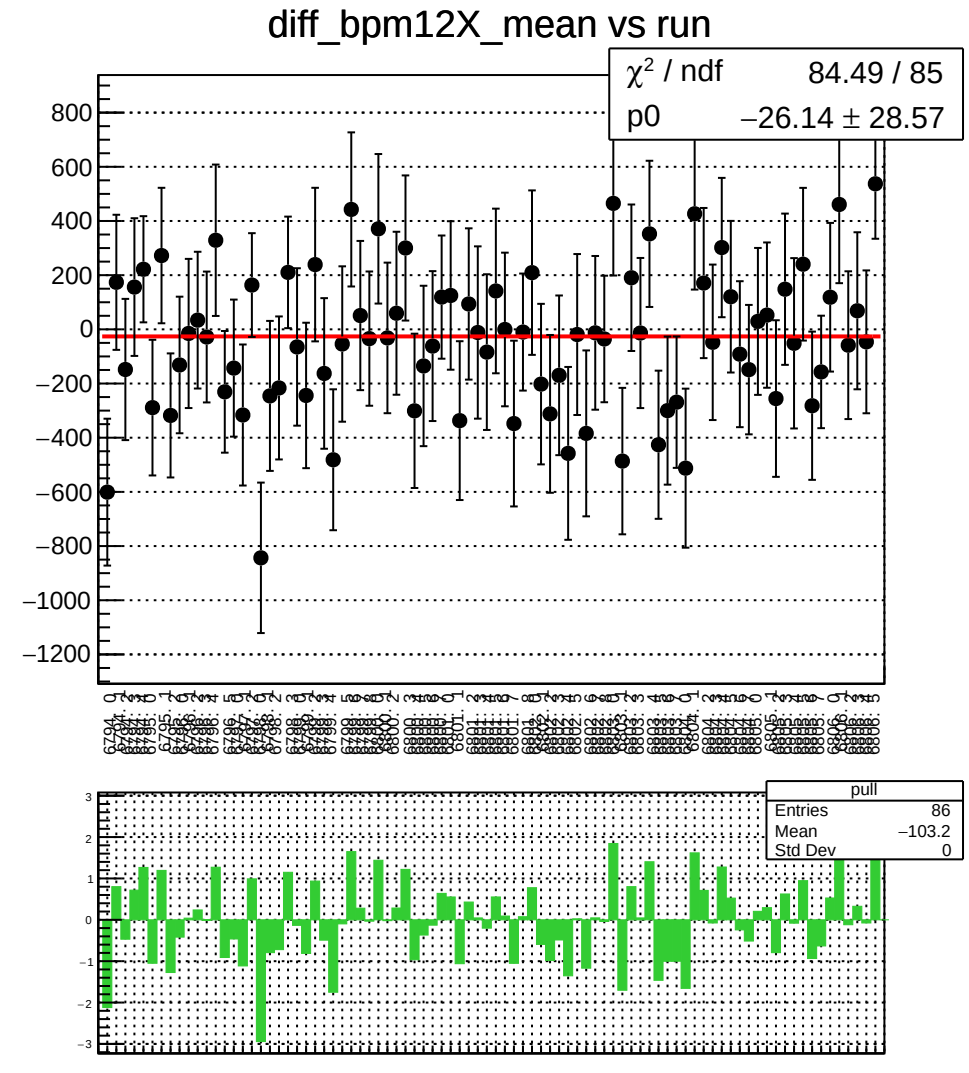

pull1D
Entries 86
Mean −0.0242
Std Dev 0.9918

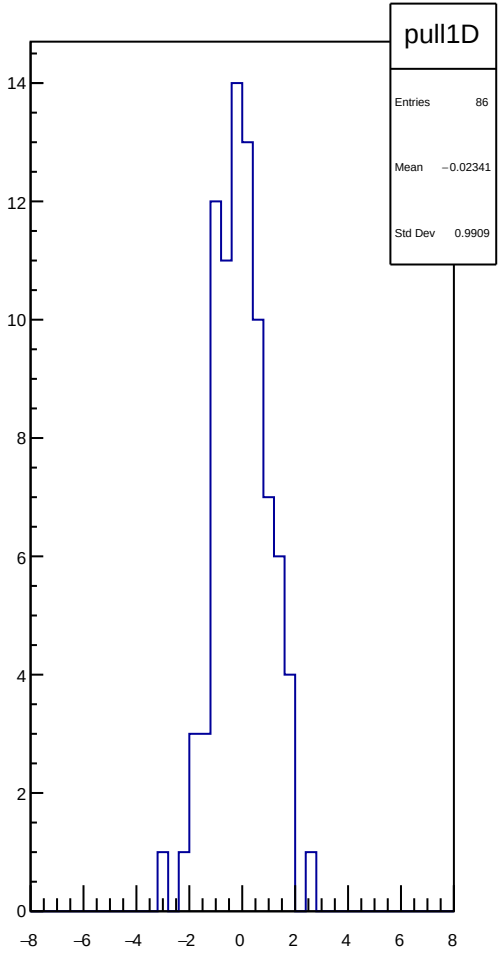

diff_bpm11X_rms vs run
χ² / ndf 5743 / 85
p0 1.009e+04 ± 7.794
12000
11500
11000
10500
10000
9500
9000

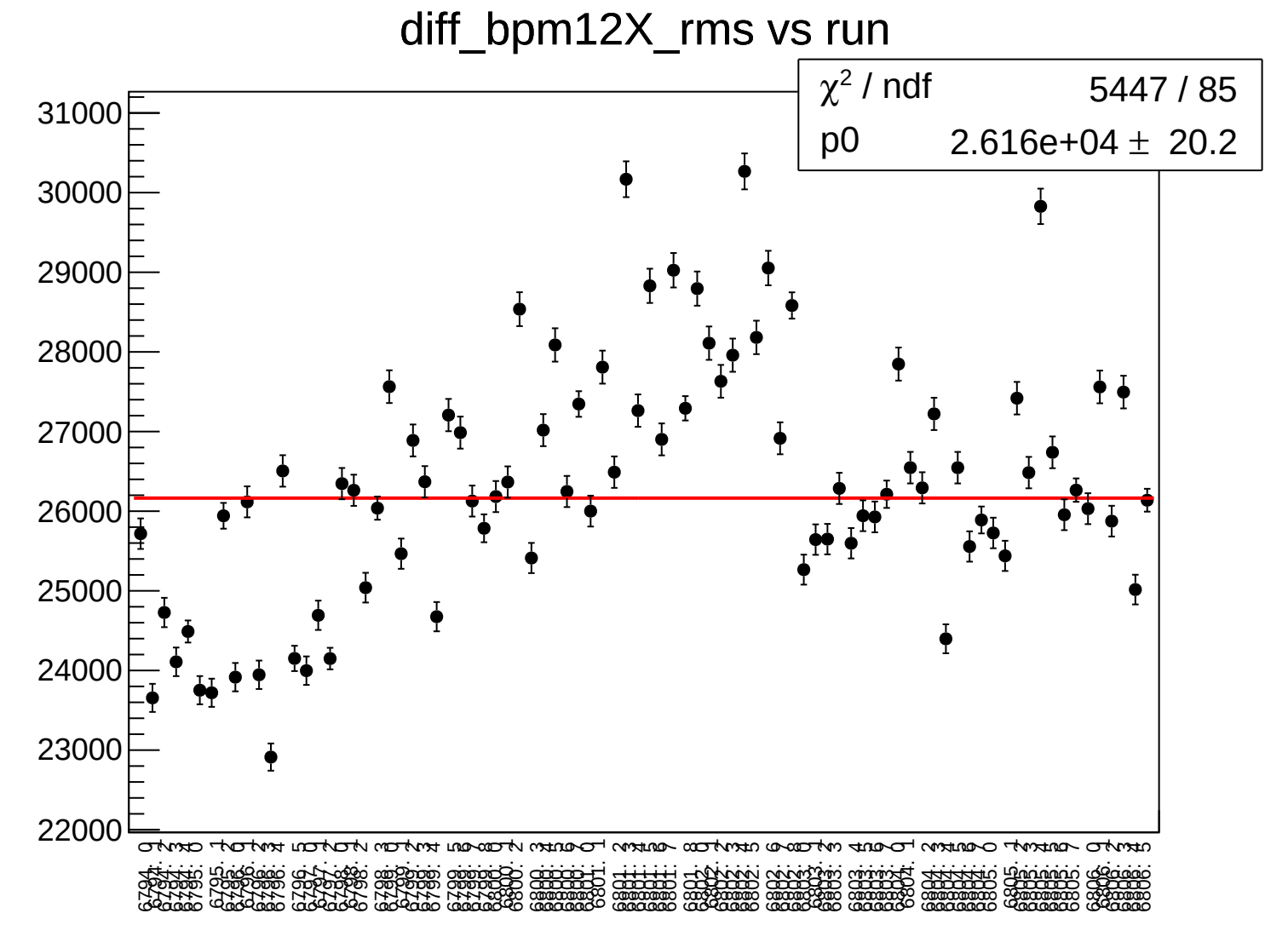

diff_bpm11Y_mean vs run
χ² / ndf 82.17 / 85
p0 −8.947 ± 18.51
pull
Entries 86
Mean −19.47
Std Dev 0

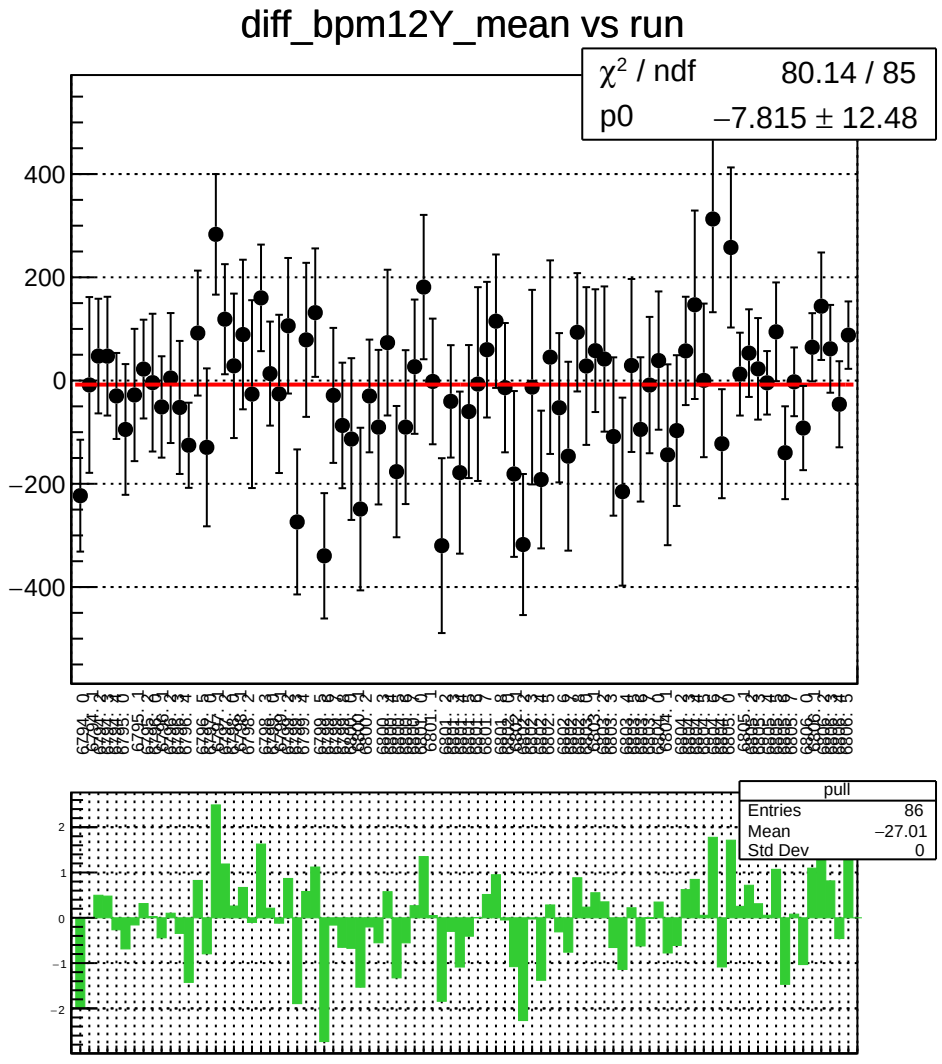

pull1D
Entries 86
Mean −0.0437
Std Dev 0.9765

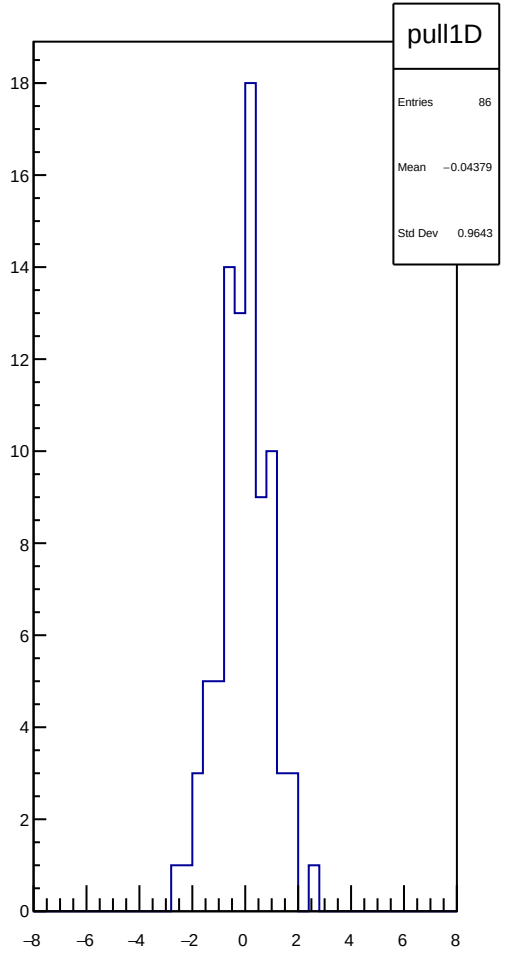

diff_bpm11Y_rms vs run
χ² / ndf 1.241e+05 / 85
p0 1.634e+04 ± 13.09
28000
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000

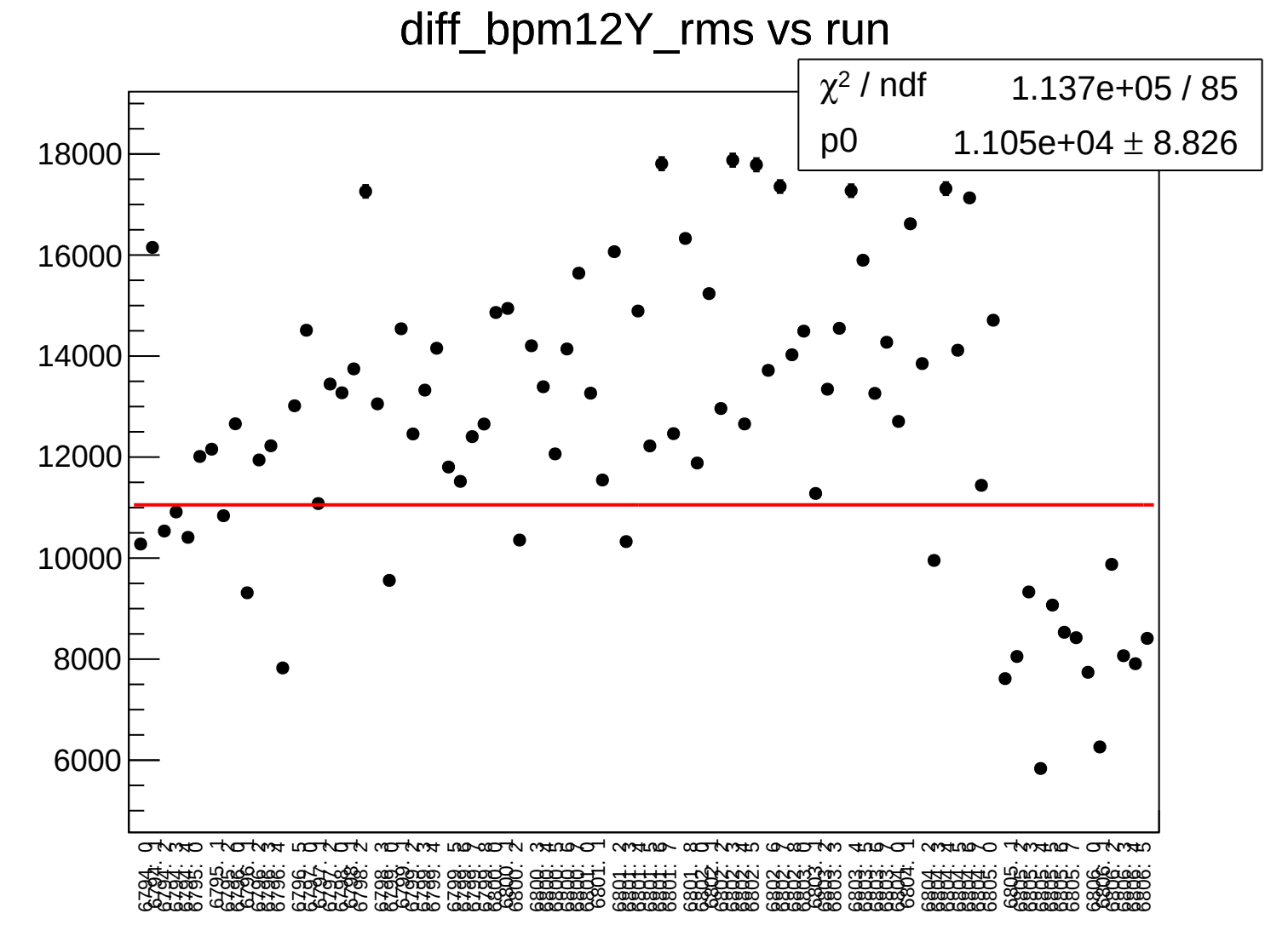

diff_bpm12X_mean vs run
χ² / ndf 84.49 / 85
p0 −26.14 ± 28.57
pull
Entries 86
Mean −103.2
Std Dev 0

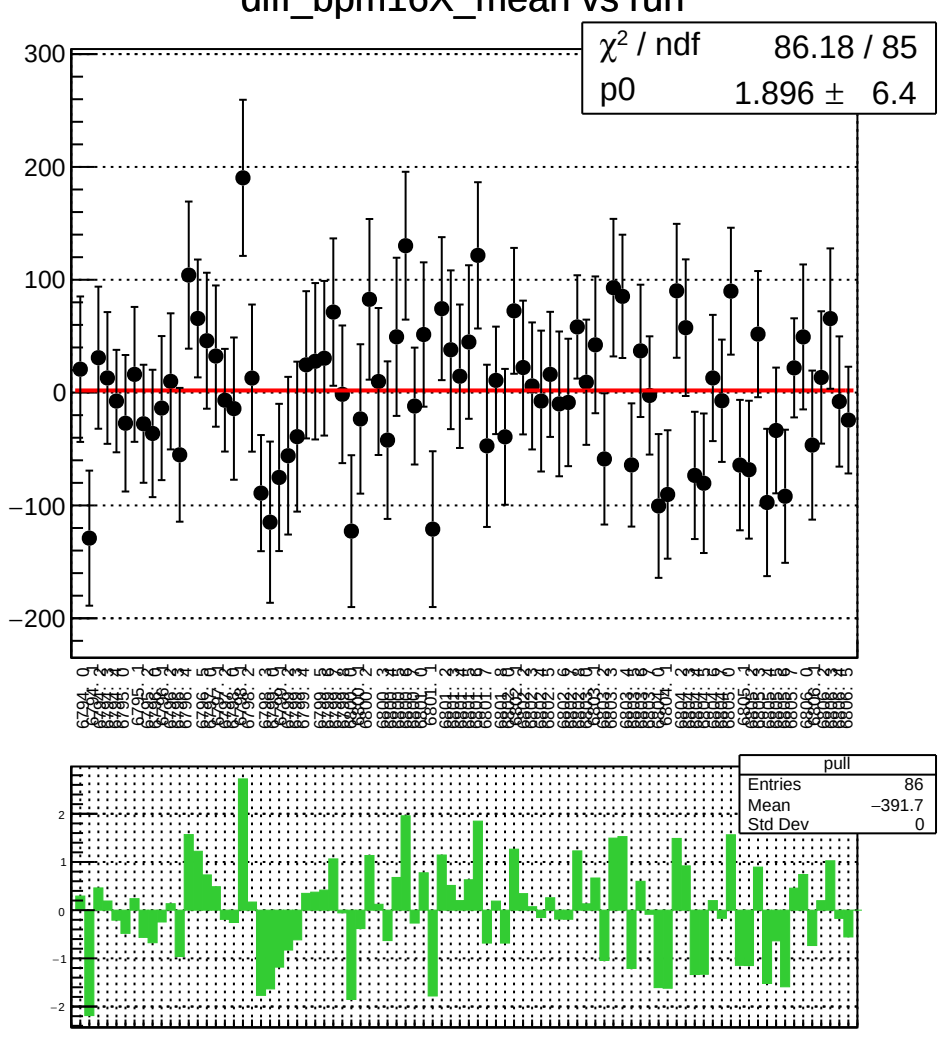

pull1D
Entries 86
Mean −0.02341
Std Dev 0.9909

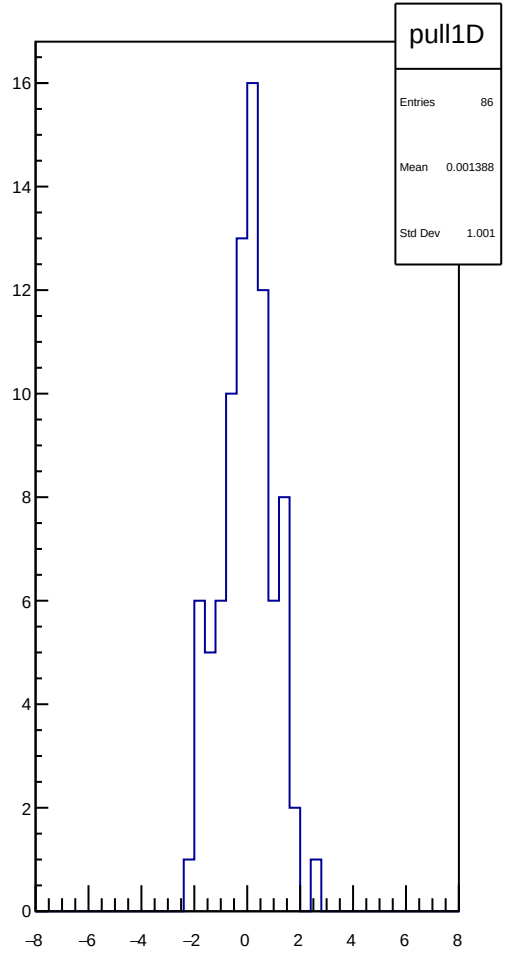

diff_bpm12X_rms vs run
χ² / ndf 5447 / 85
p0 2.616e+04 ± 20.2
31000
30000
29000
28000
27000
26000
25000
24000
23000
22000

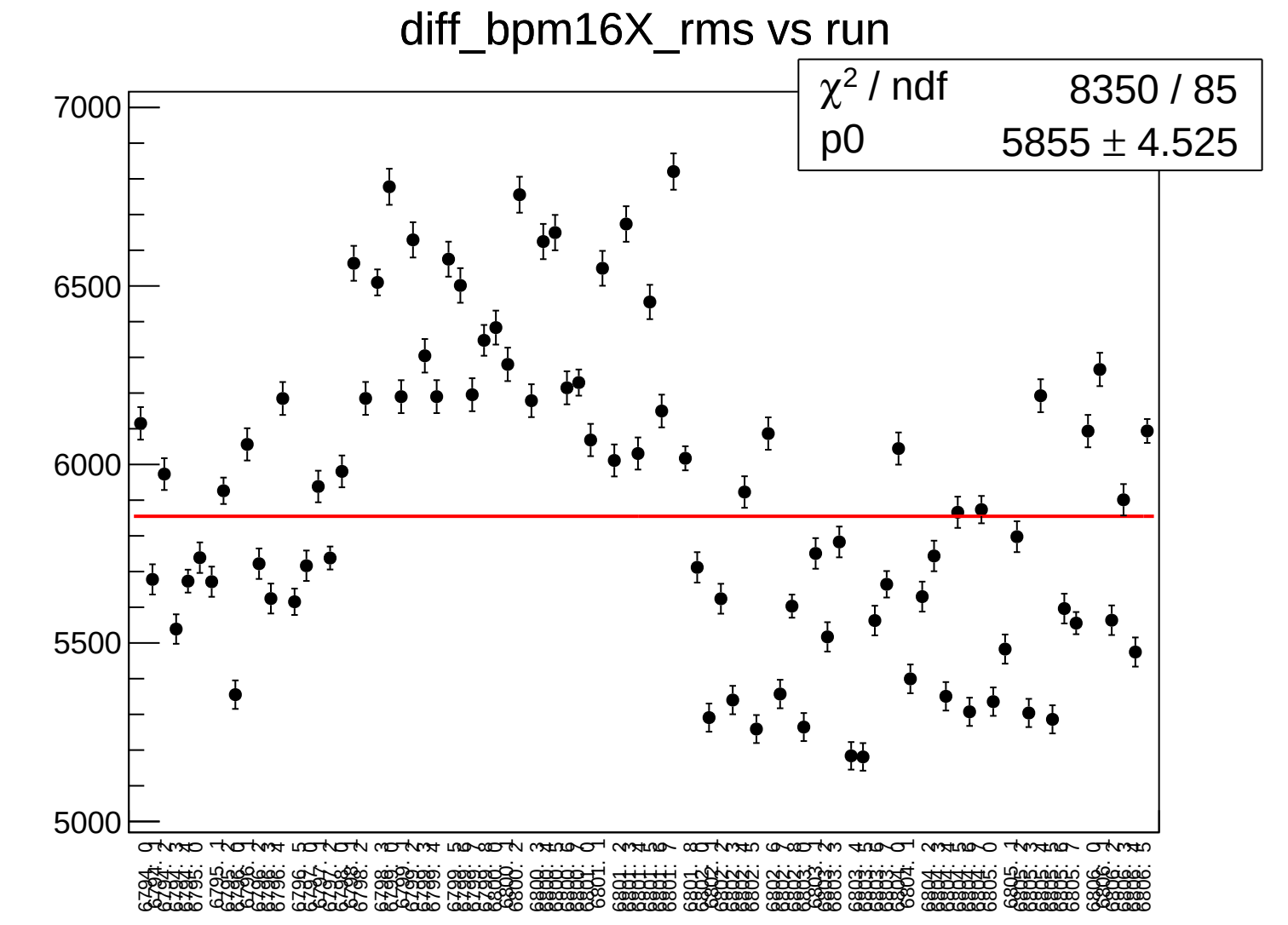

diff_bpm12Y_mean vs run
χ² / ndf 80.14 / 85
p0 −7.815 ± 12.48
400
200
0
−200
−400
pull
Entries 86
Mean −27.01
Std Dev 0
2
1
0
−1
−2

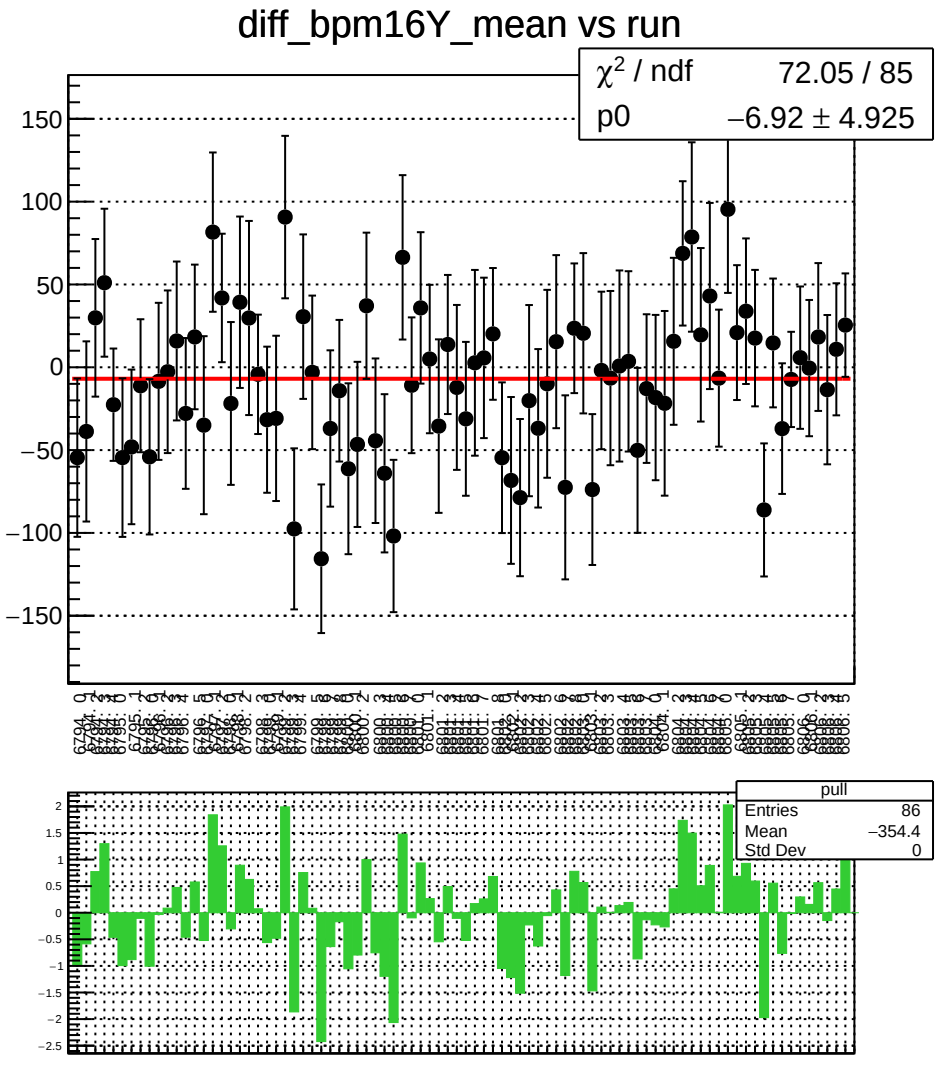

pull1D
Entries 86
Mean −0.04379
Std Dev 0.9643
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

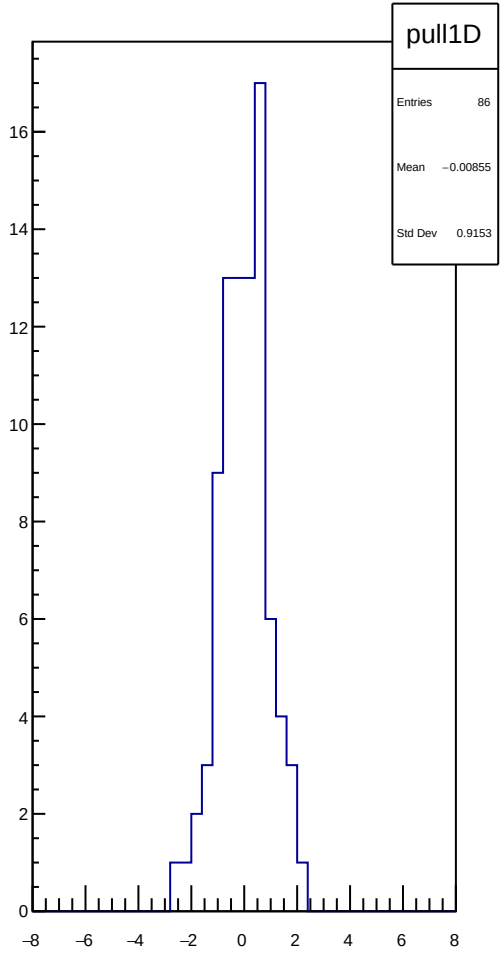

diff_bpm12Y_rms vs run
χ² / ndf 1.137e+05 / 85
p0 1.105e+04 ± 8.826
18000
16000
14000
12000
10000
8000
6000

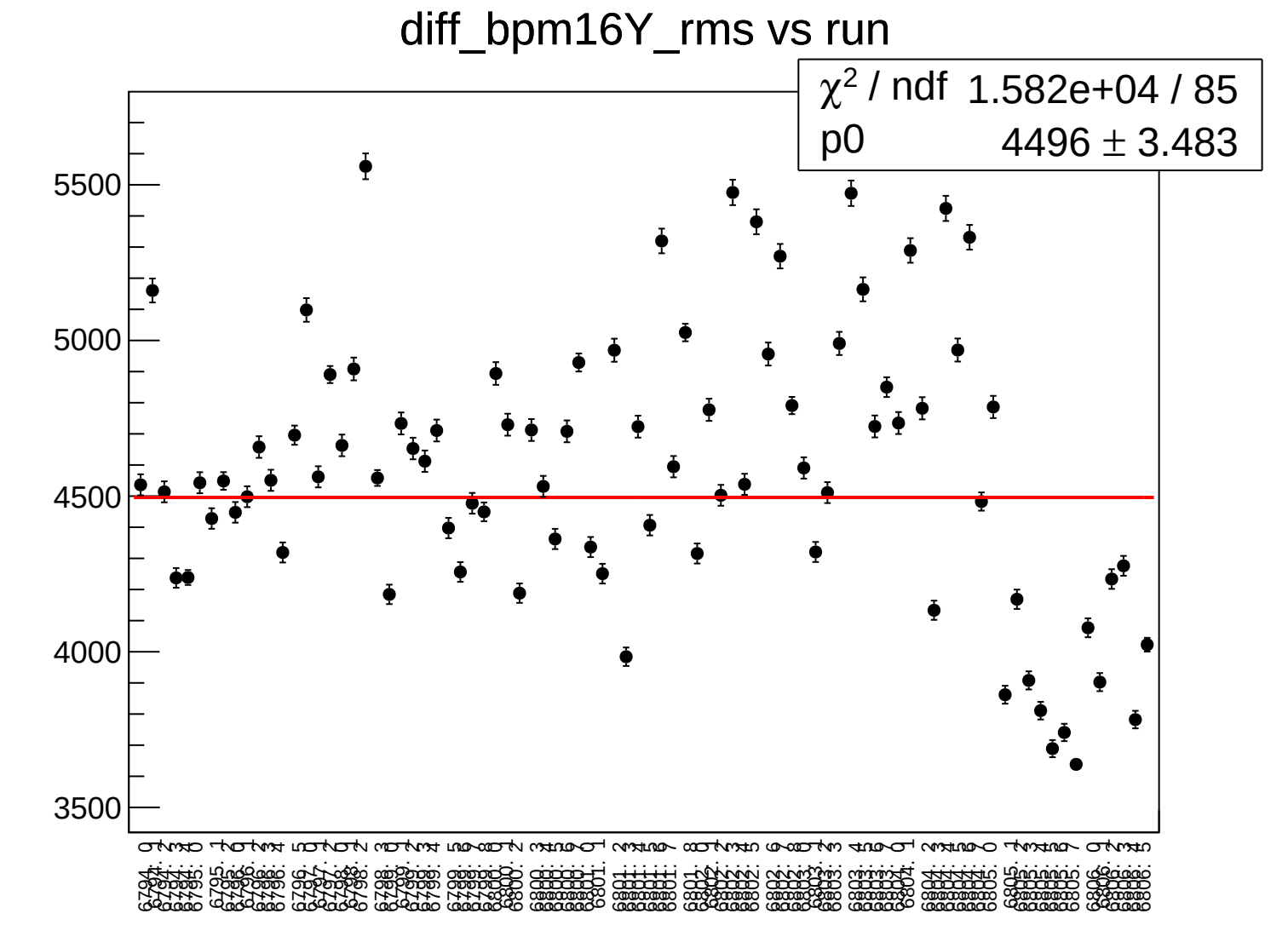

diff_bpm16X_mean vs run
χ² / ndf 86.18 / 85
p0 1.896 ± 6.4
300
200
100
0
−100
−200
pull
Entries 86
Mean −391.7
Std Dev 0
2
1
0
−1
−2

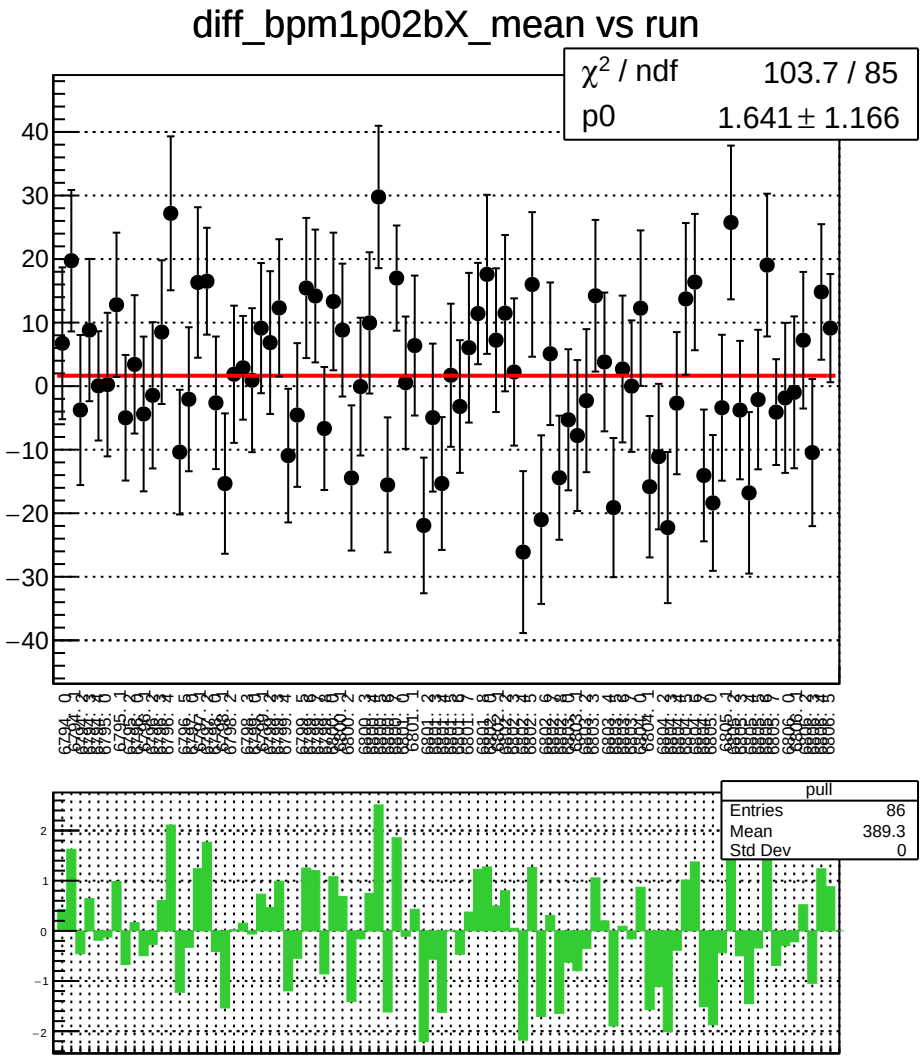

pull1D
Entries 86
Mean 0.001388
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

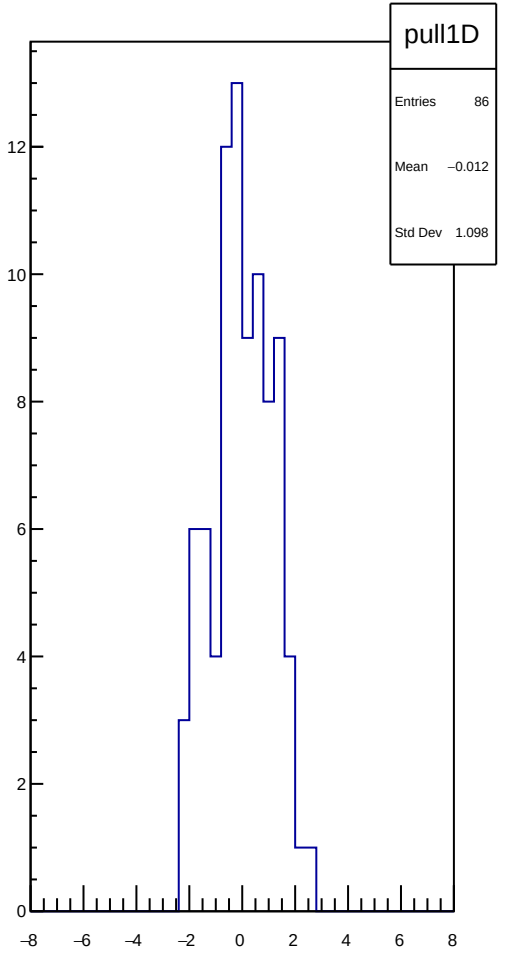

diff_bpm16X_rms vs run
χ^2 / ndf 8350 / 85
p0 5855 ± 4.525
7000
6500
6000
5500
5000

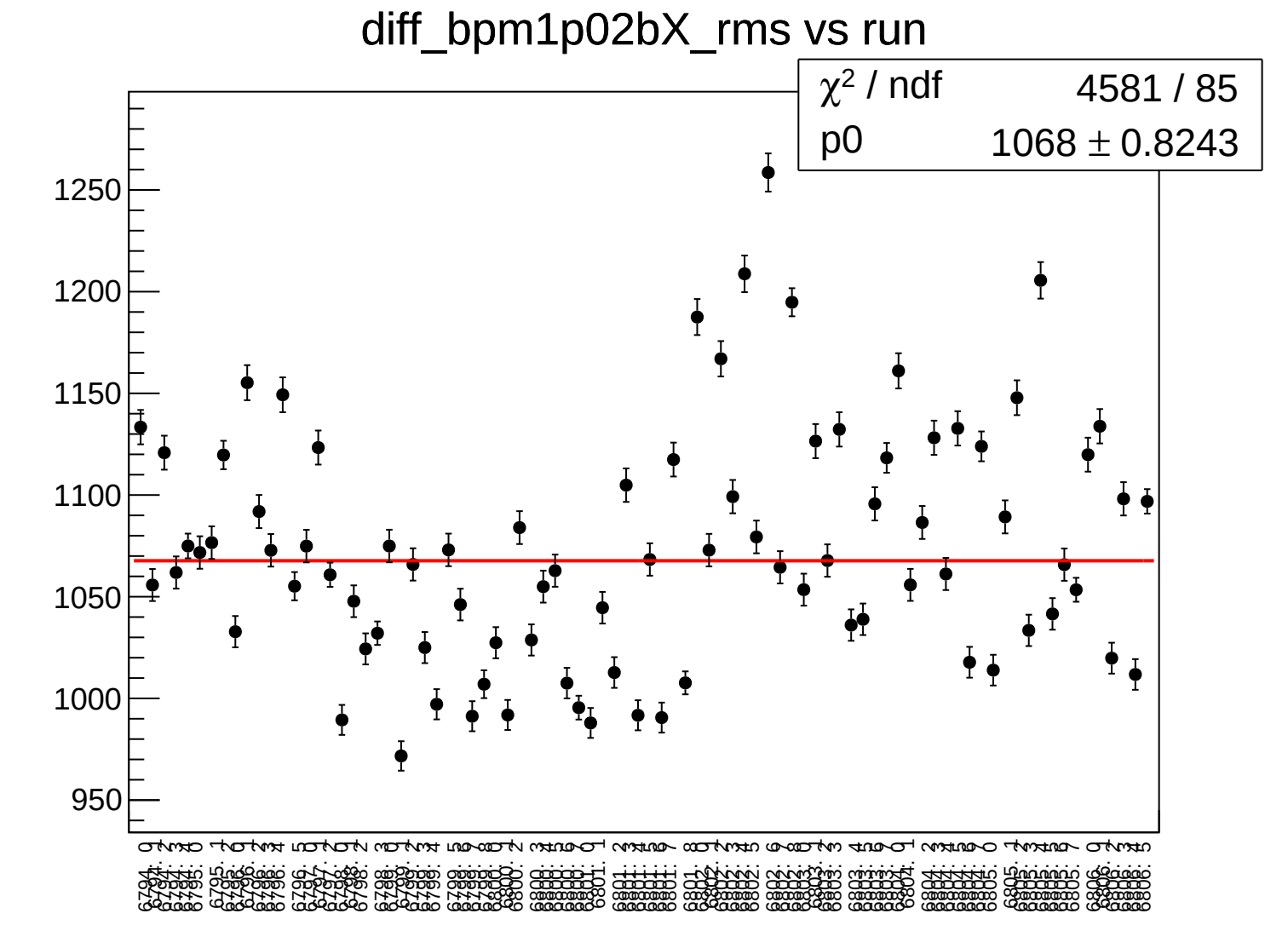

diff_bpm16Y_mean vs run
χ² / ndf 72.05 / 85
p0 −6.92 ± 4.925
150
100
50
0
−50
−100
−150
pull
Entries 86
Mean −354.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

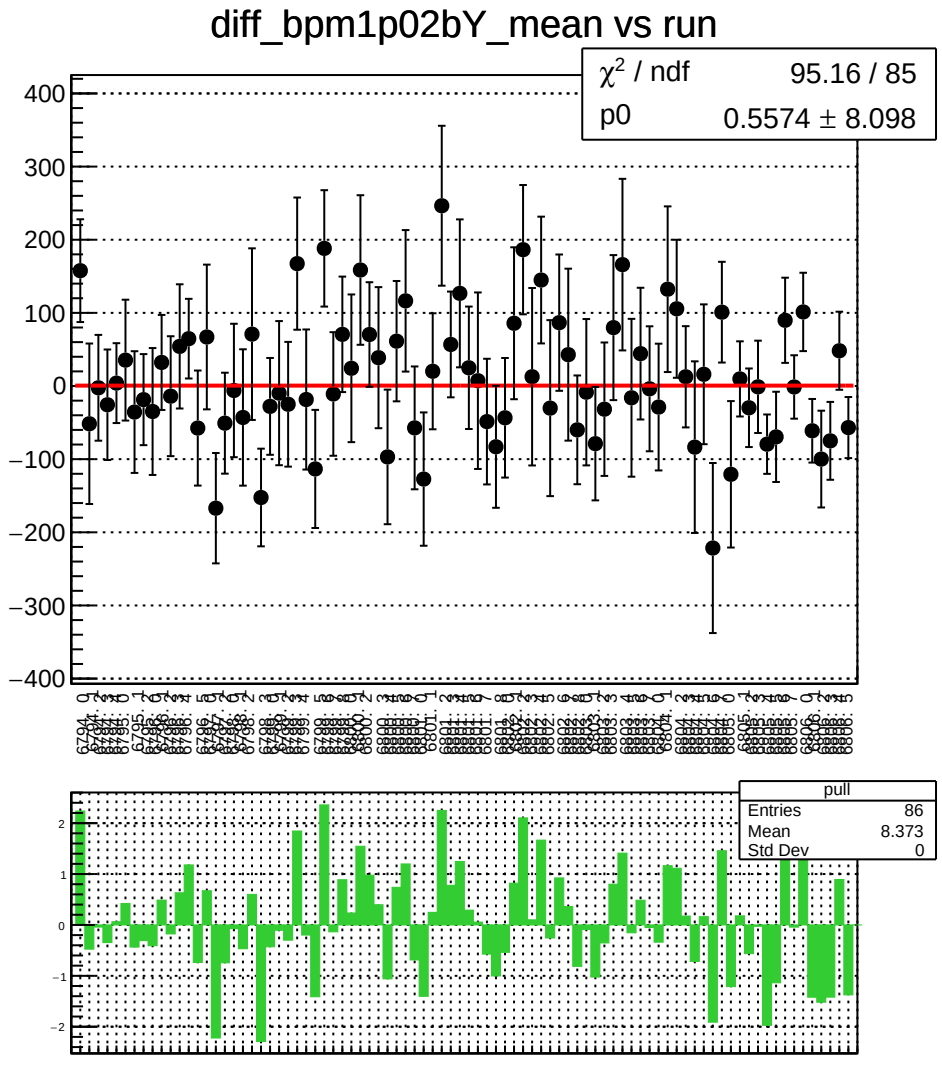

pull1D
Entries 86
Mean −0.00855
Std Dev 0.9153
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

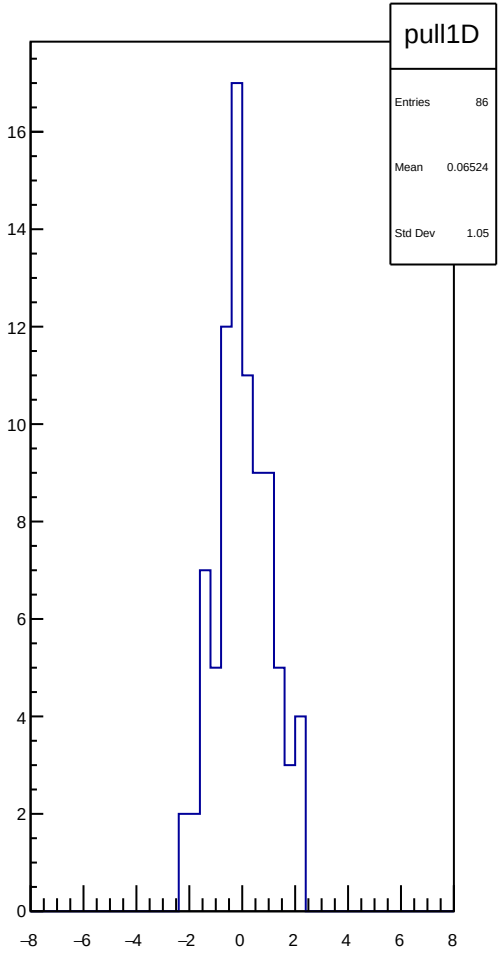

diff_bpm16Y_rms vs run
χ² / ndf 1.582e+04 / 85
p0 4496 ± 3.483
5500
5000
4500
4000
3500

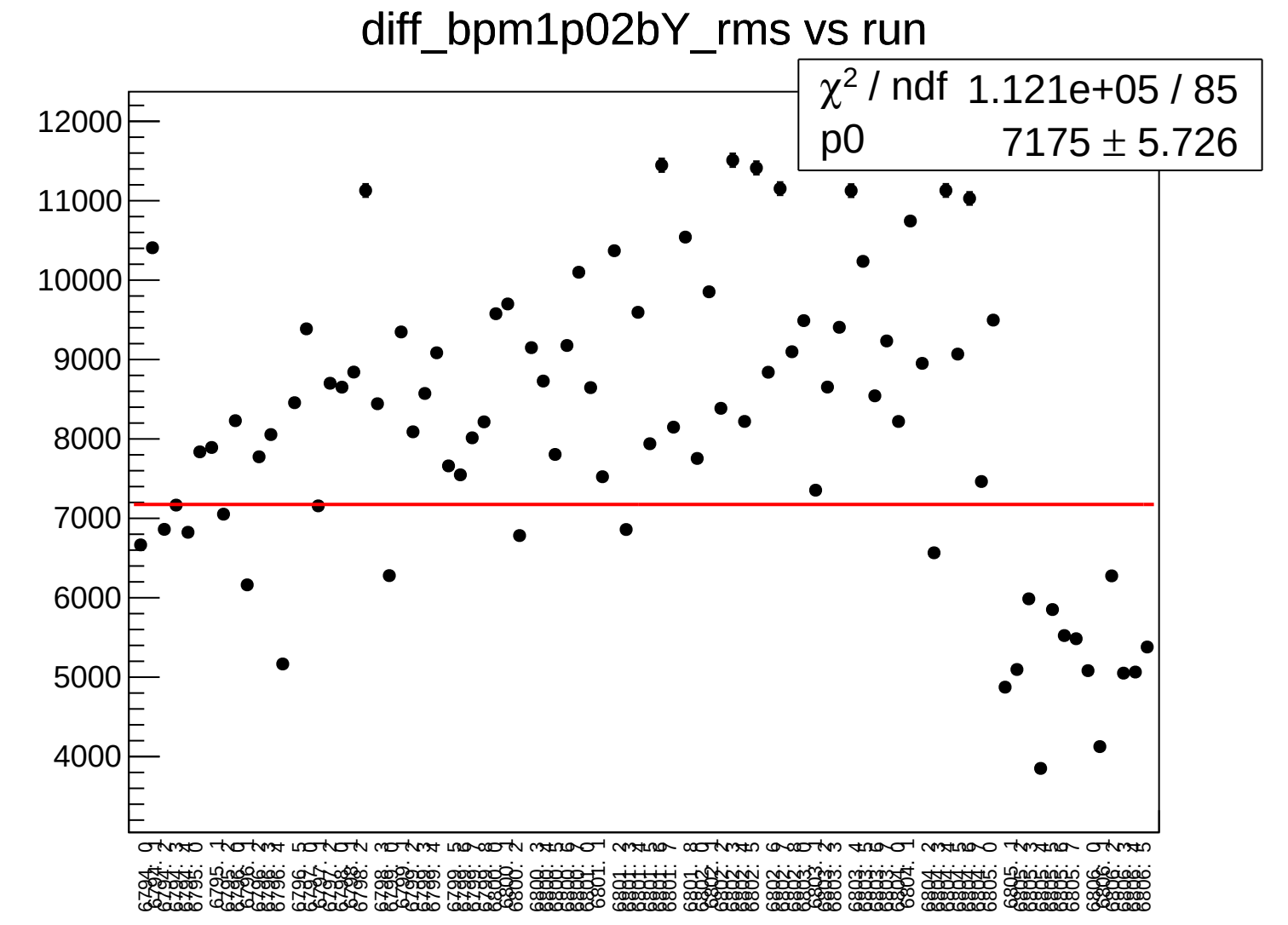

diff_bpm1p02bX_mean vs run
χ^2 / ndf 103.7 / 85
p0 1.641 ± 1.166
pull
Entries 86
Mean 389.3
Std Dev 0

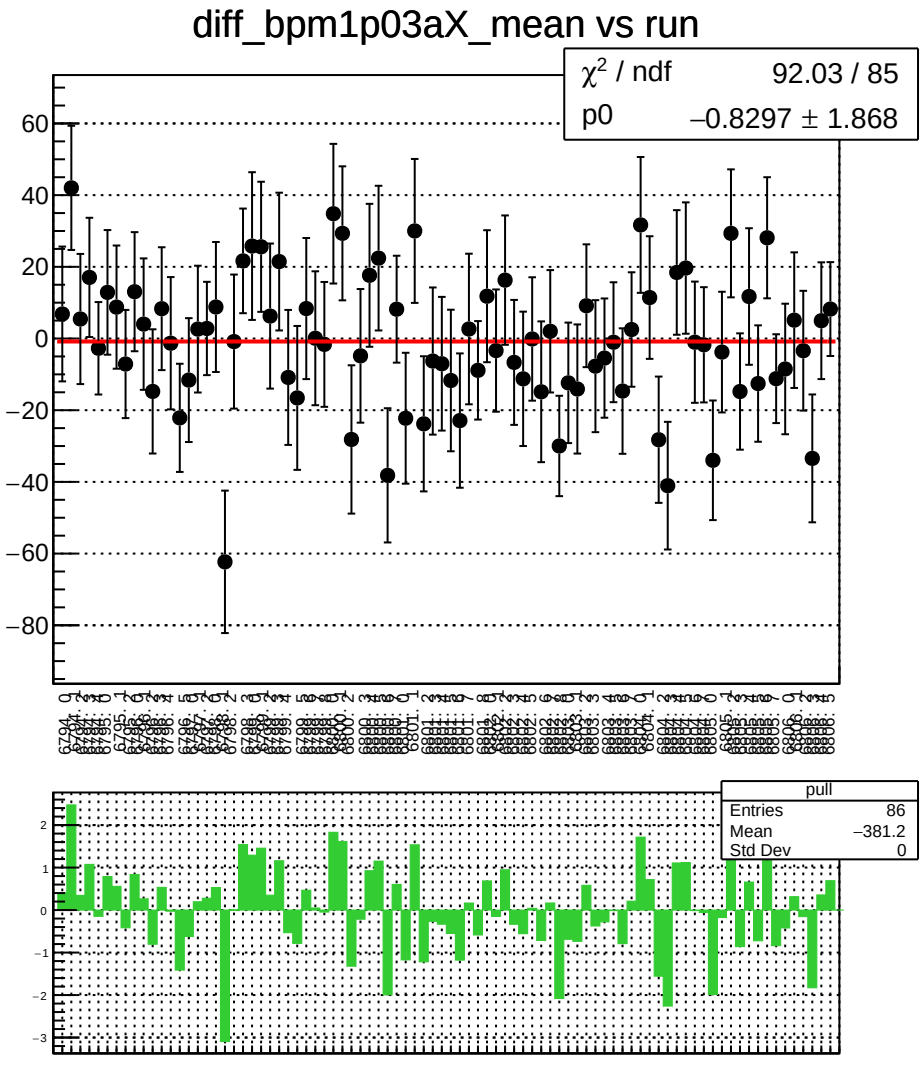

pull1D
Entries 86
Mean −0.012
Std Dev 1.098

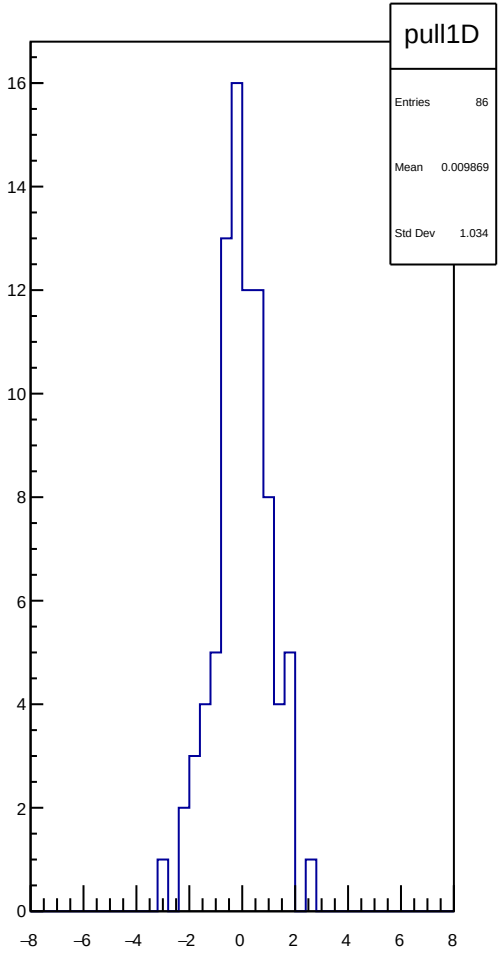

diff_bpm1p02bX_rms vs run
χ² / ndf 4581 / 85
p0 1068 ± 0.8243
1250
1200
1150
1100
1050
1000
950

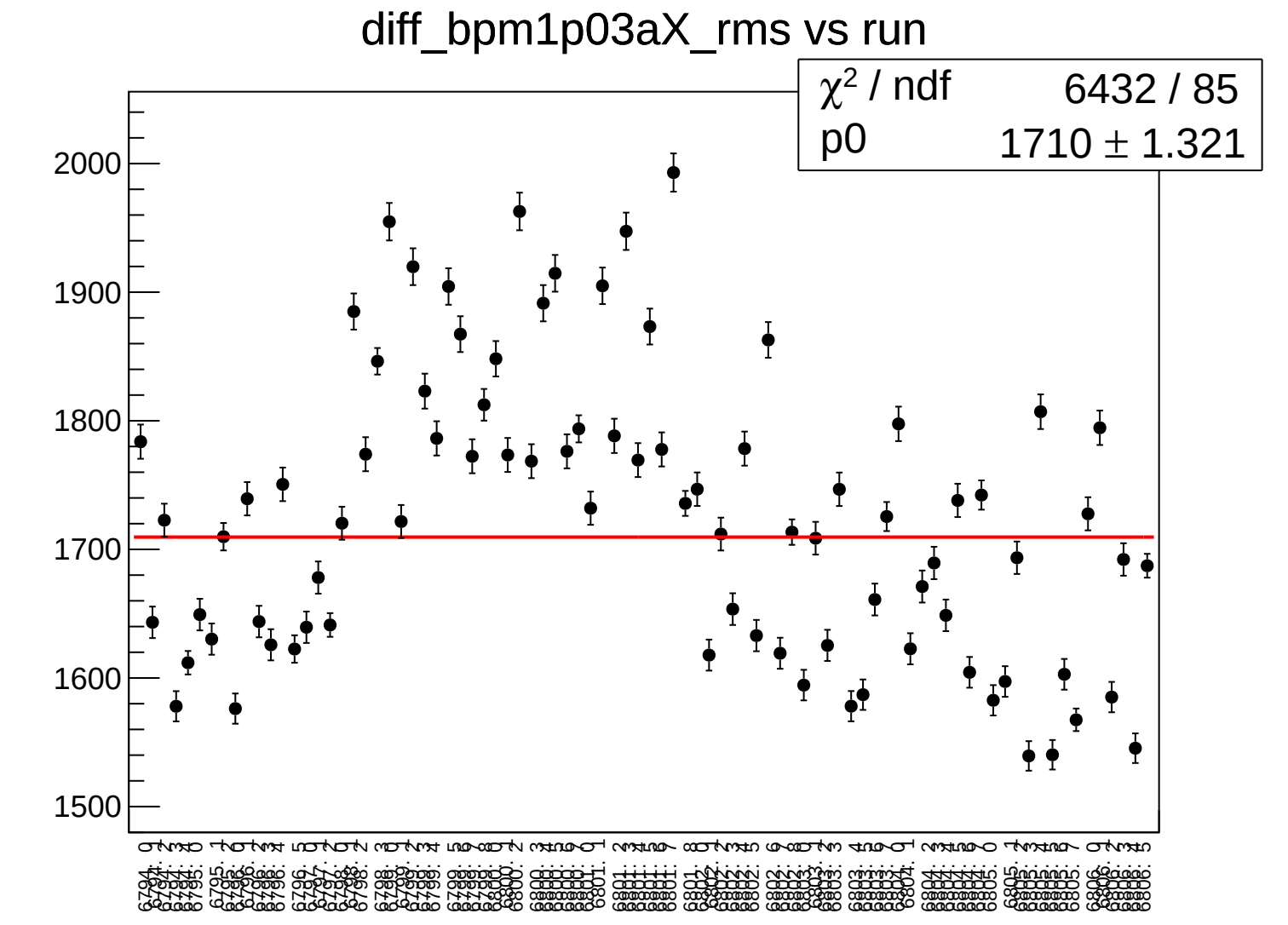

diff_bpm1p02bY_mean vs run
χ² / ndf 95.16 / 85
p0 0.5574 ± 8.098
pull
Entries 86
Mean 8.373
Std Dev 0

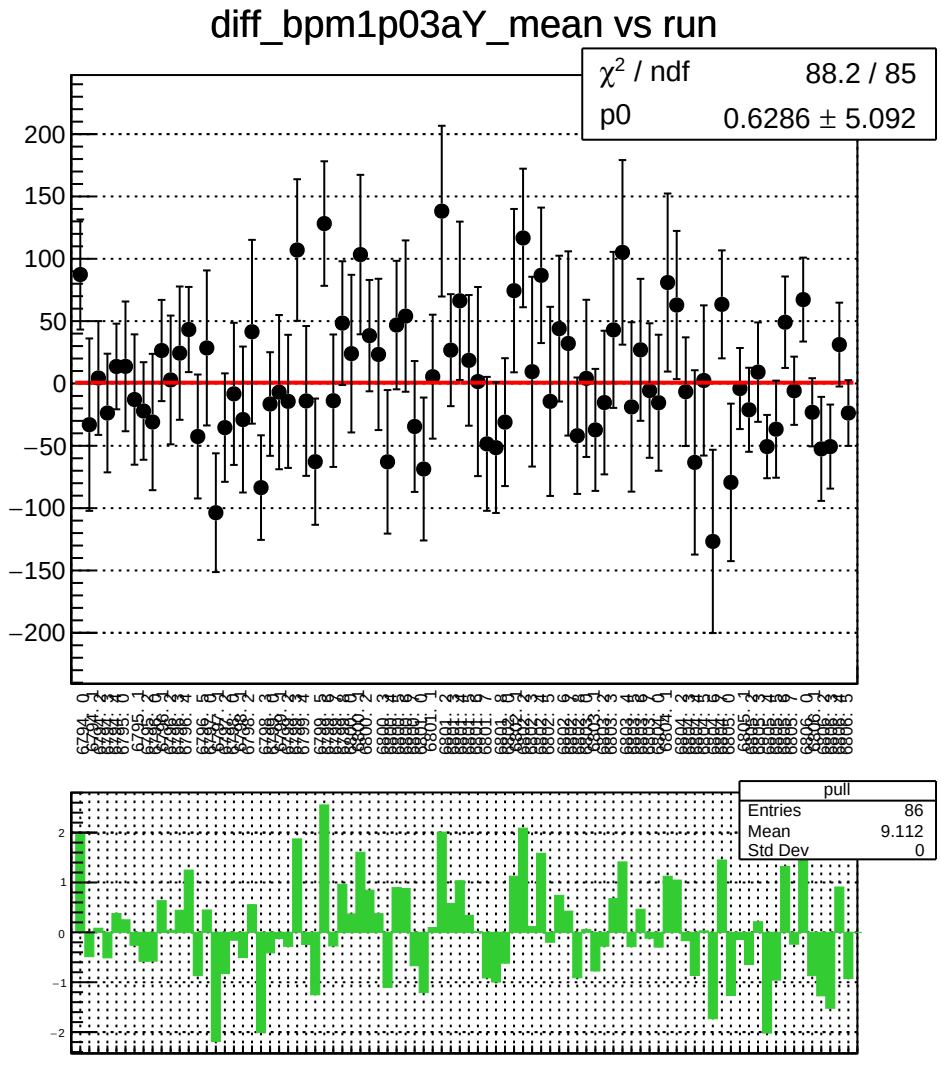

pull1D
Entries 86
Mean 0.06524
Std Dev 1.05

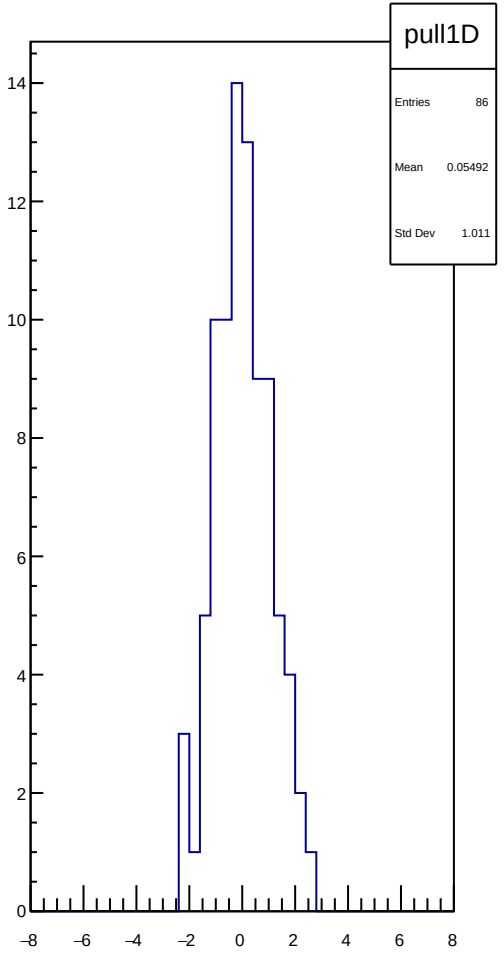

diff_bpm1p02bY_rms vs run
χ^2 / ndf 1.121e+05 / 85
p0 7175 ± 5.726
12000
11000
10000
9000
8000
7000
6000
5000
4000

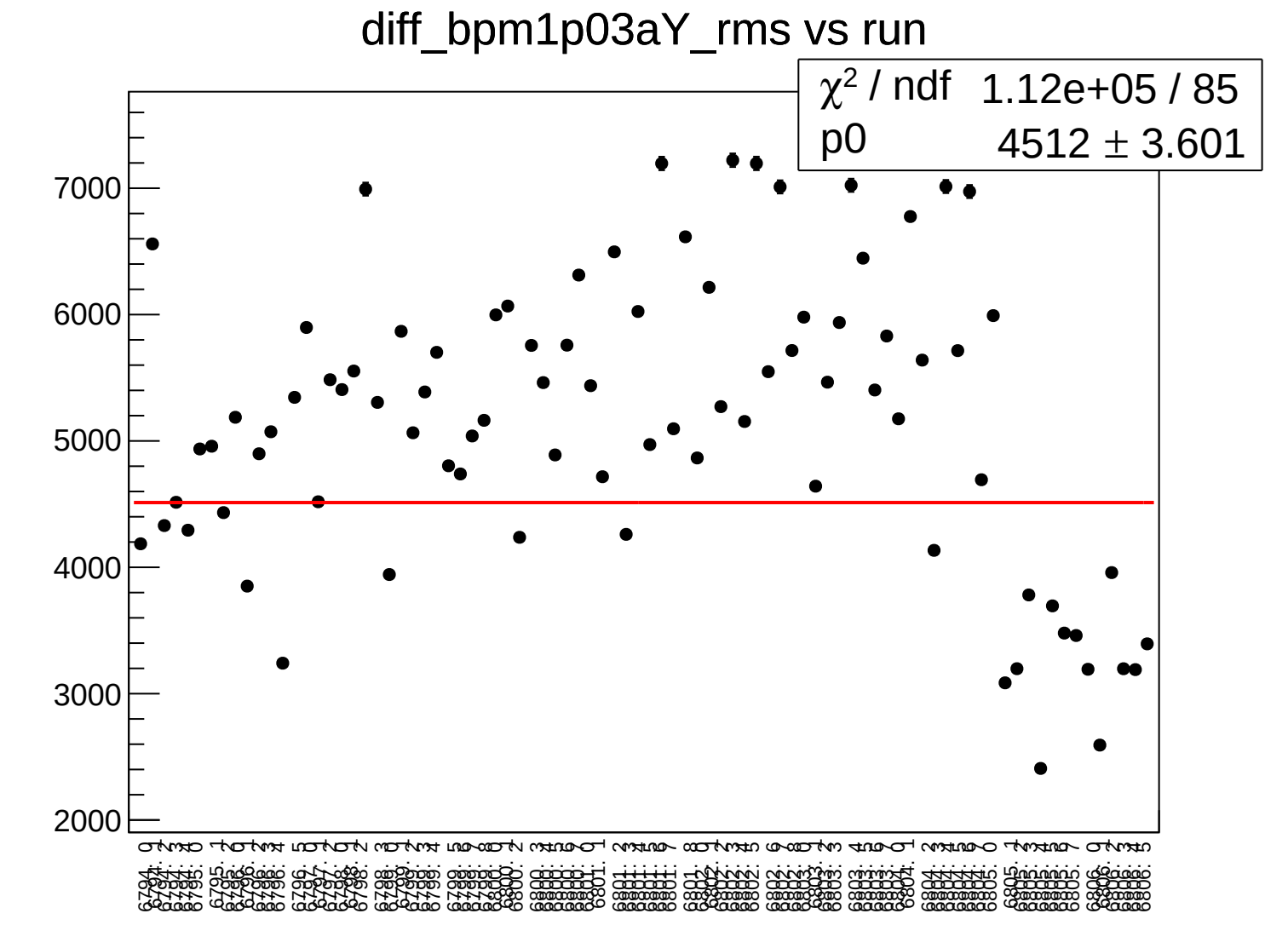

diff_bpm1p03aX_mean vs run
χ² / ndf 92.03 / 85
p0 −0.8297 ± 1.868
pull
Entries 86
Mean −381.2
Std Dev 0

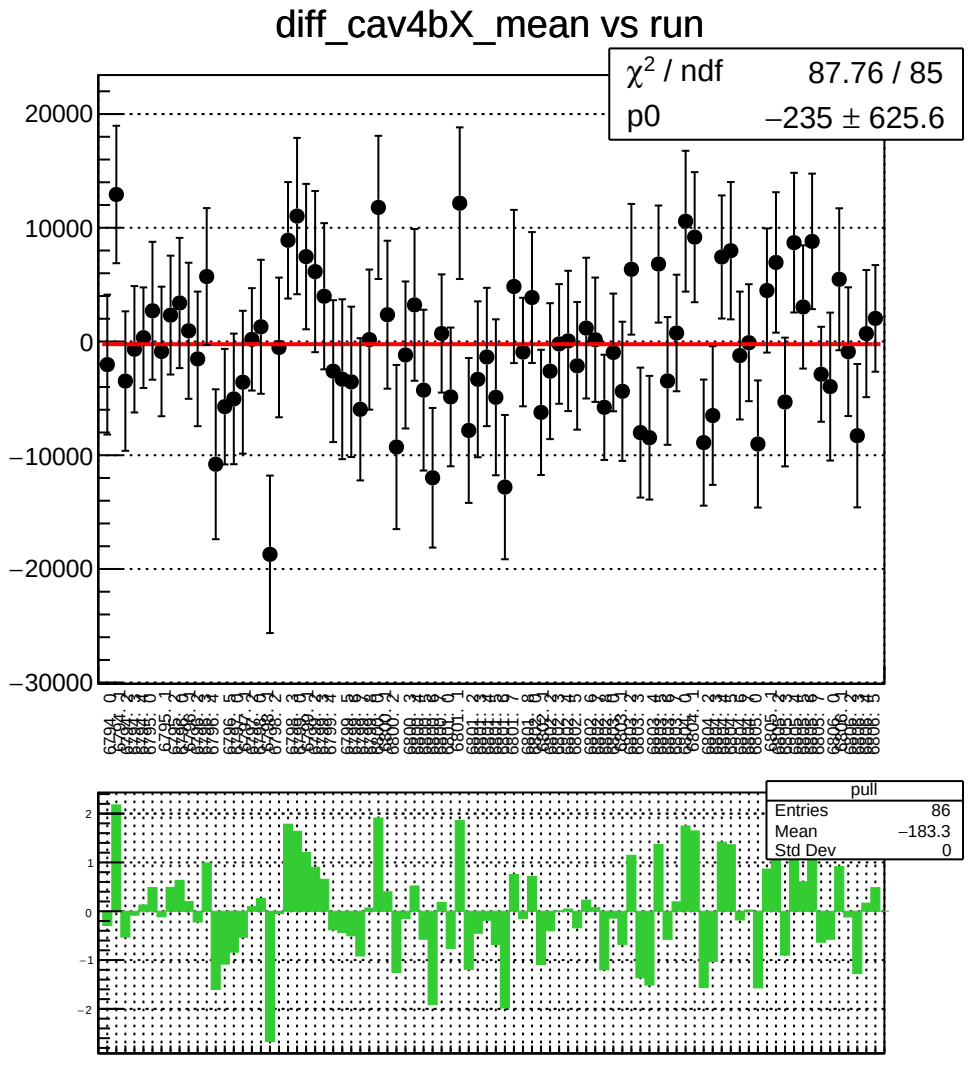

pull1D
Entries 86
Mean 0.009869
Std Dev 1.034

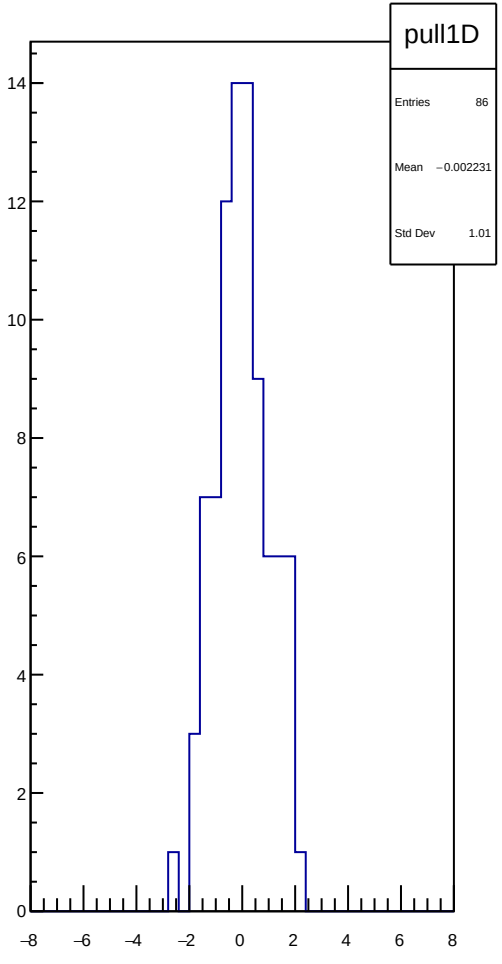

diff_bpm1p03aX_rms vs run
χ² / ndf 6432 / 85
p0 1710 ± 1.321
2000
1900
1800
1700
1600
1500

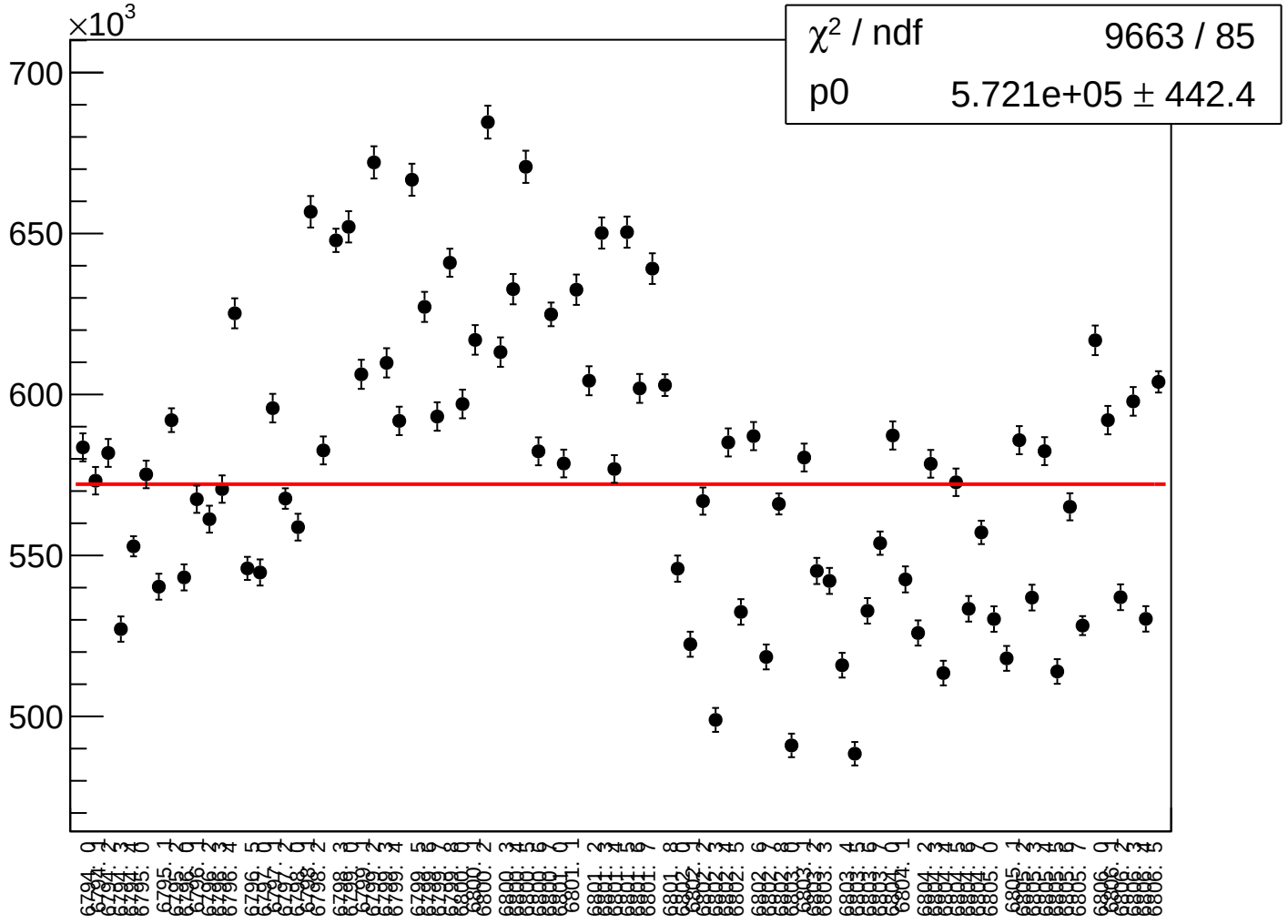

diff_bpm1p03aY_mean vs run
χ² / ndf 88.2 / 85
p0 0.6286 ± 5.092
pull
Entries 86
Mean 9.112
Std Dev 0

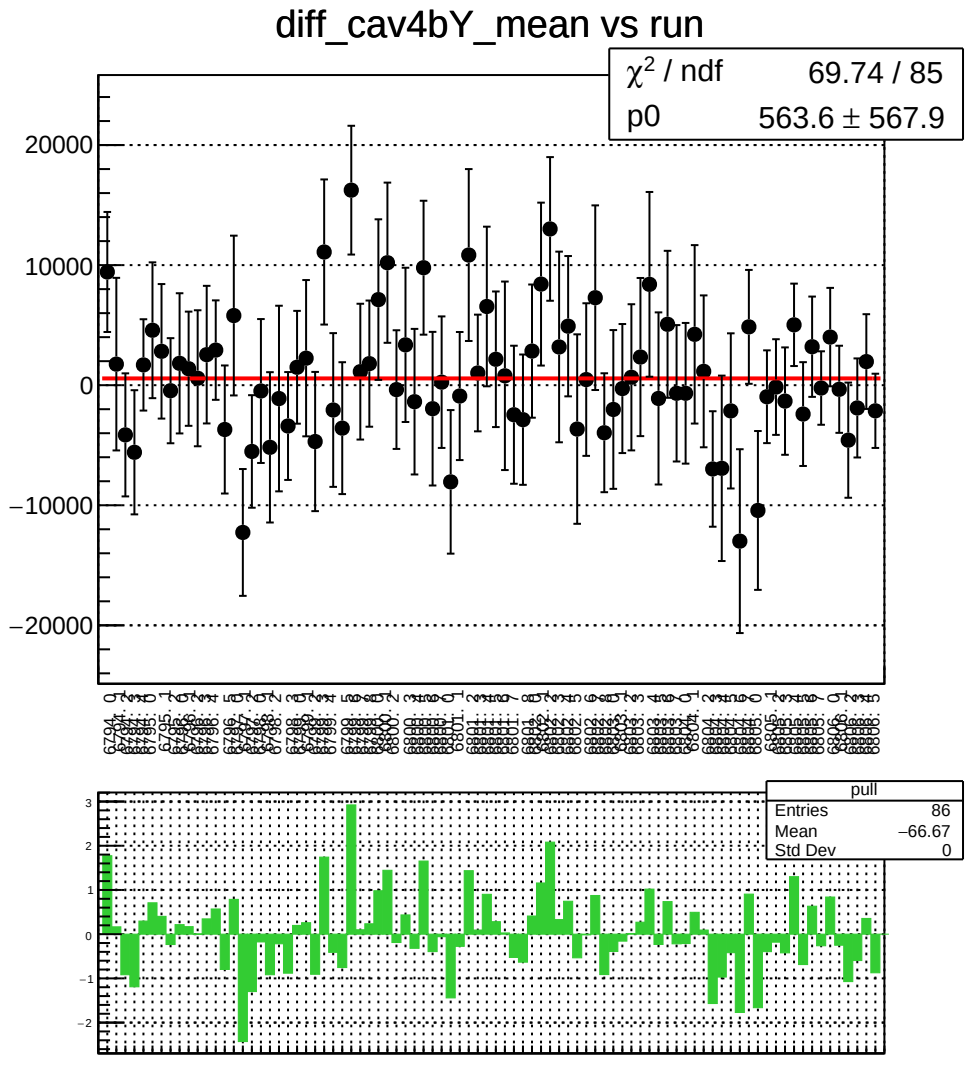

pull1D
Entries 86
Mean 0.05492
Std Dev 1.011

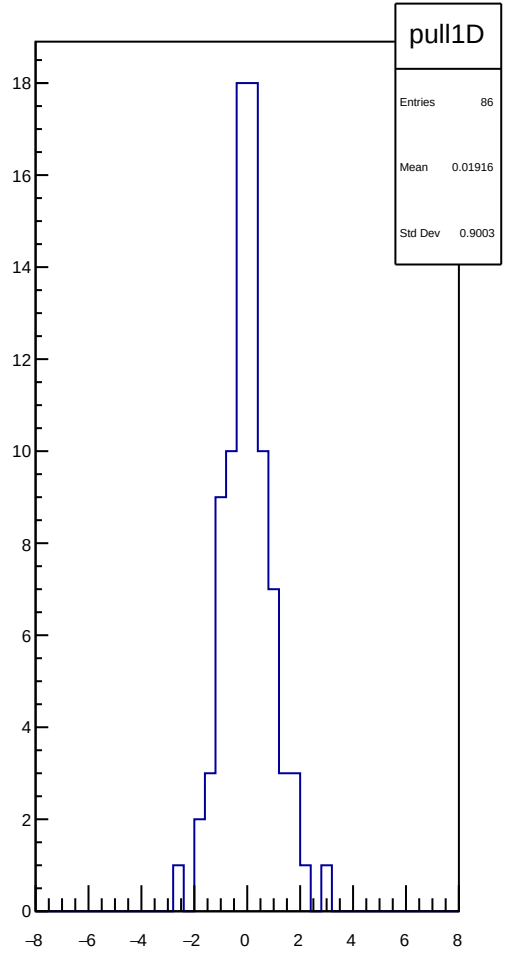

diff_bpm1p03aY_rms vs run
χ² / ndf 1.12e+05 / 85
p0 4512 ± 3.601
7000
6000
5000
4000
3000
2000

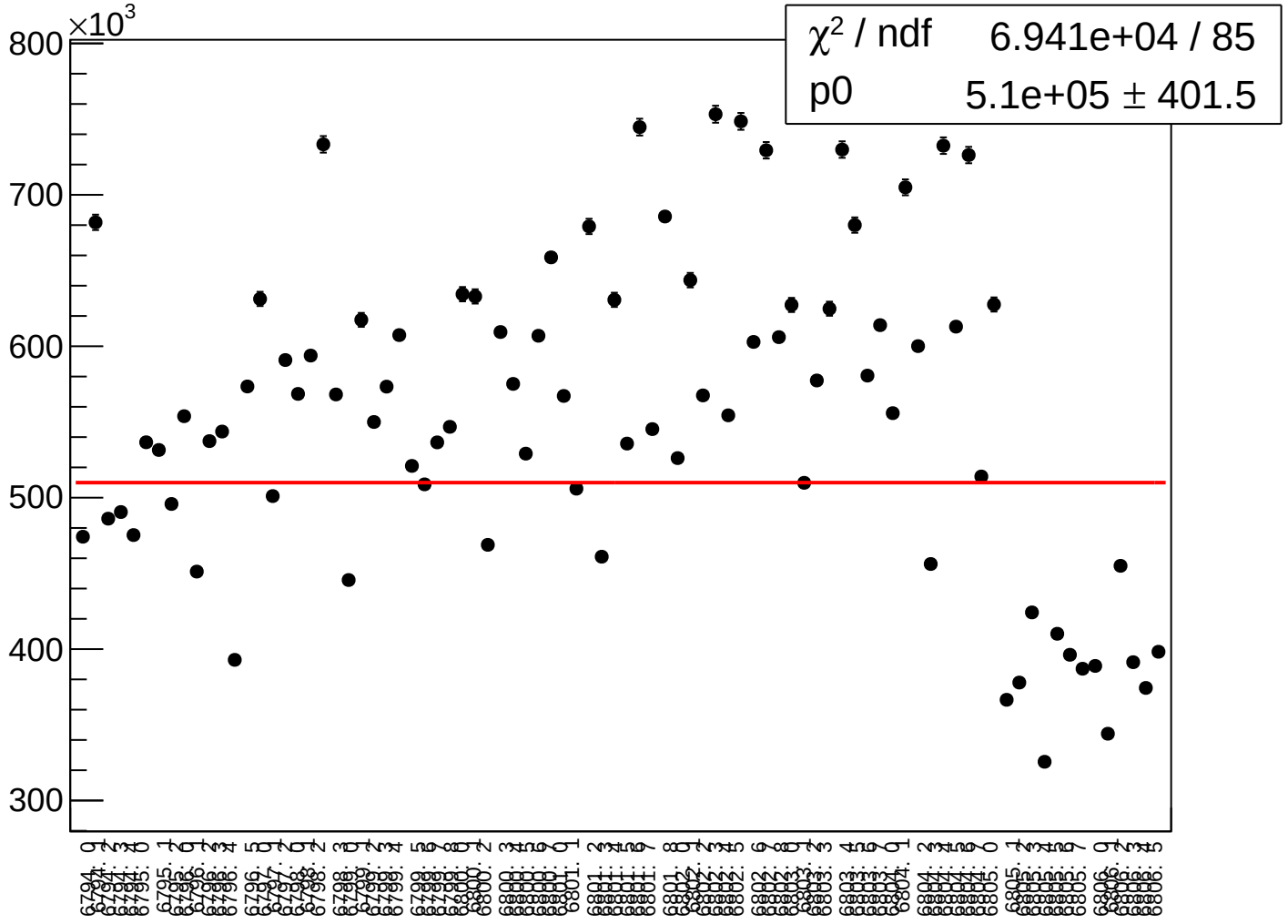

diff_cav4bX_mean vs run
χ² / ndf 87.76 / 85
p0 −235 ± 625.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −183.3
Std Dev 0
2
1
0
−1
−2

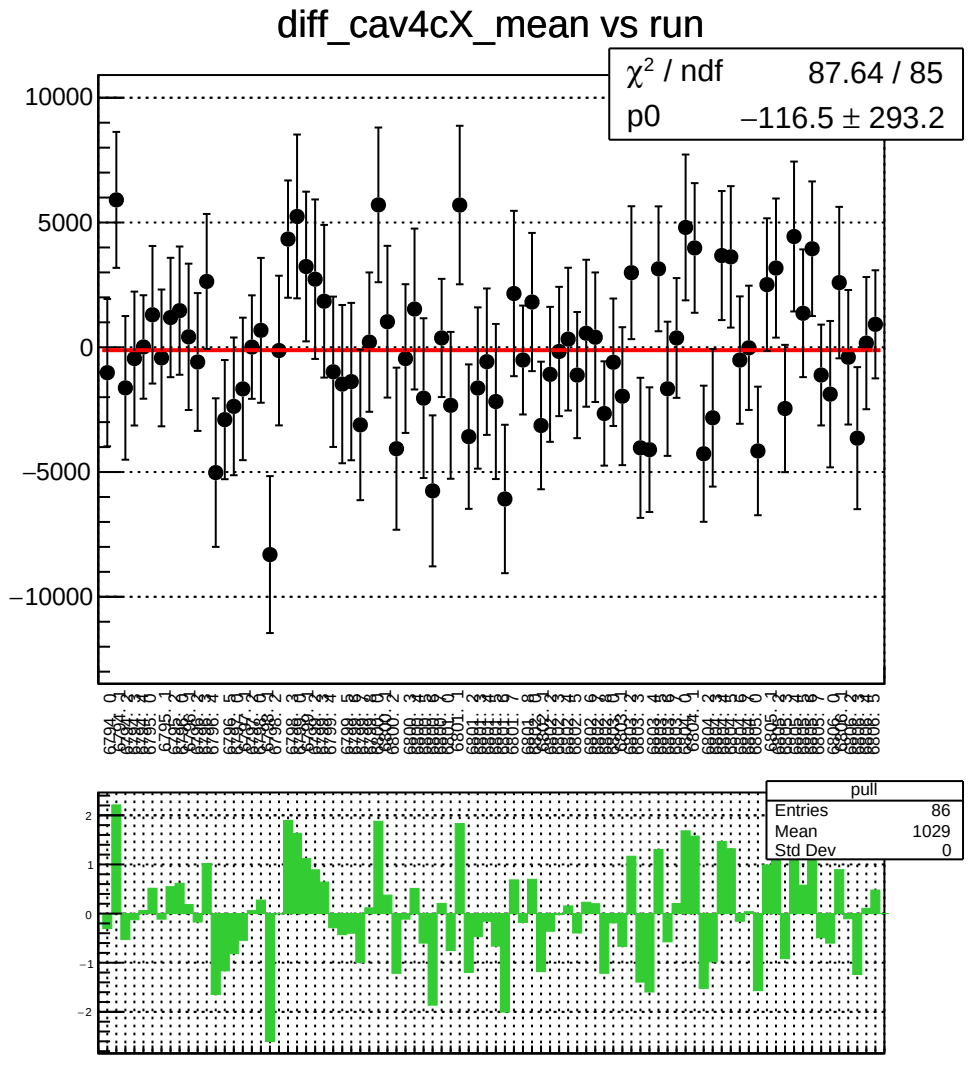

pull1D
Entries 86
Mean −0.002231
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

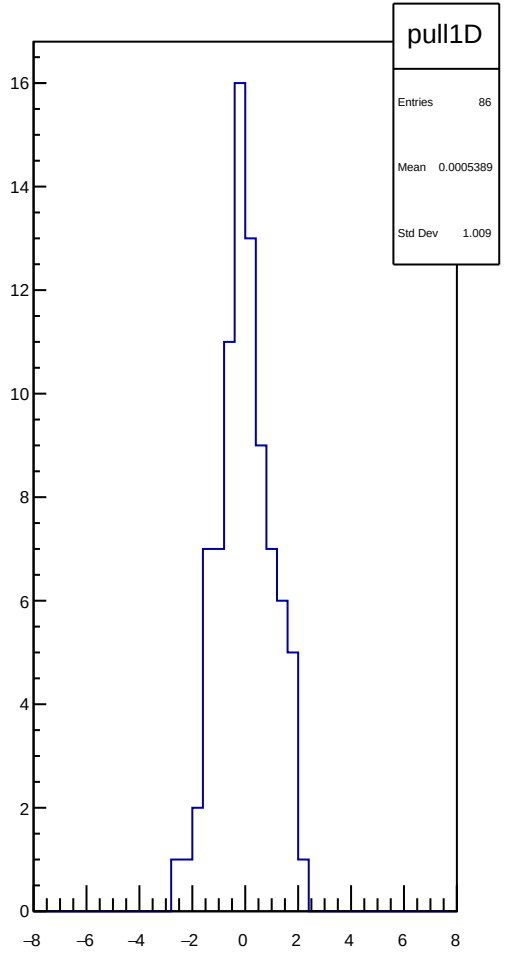

diff_cav4bX_rms vs run
×10^3
700
650
600
550
500
χ² / ndf 9663 / 85
p0 5.721e+05 ± 442.4

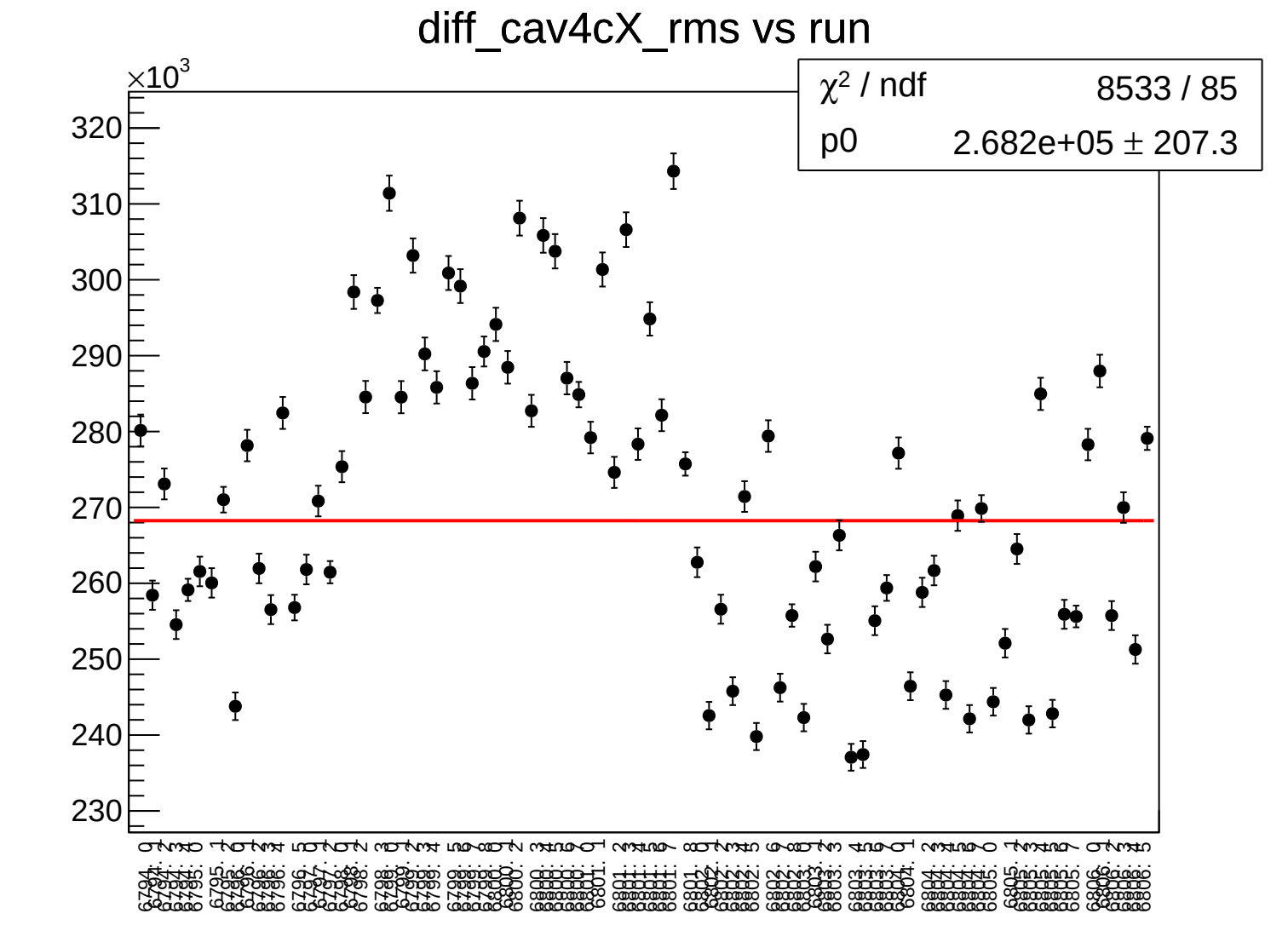

diff_cav4bY_mean vs run
χ^2 / ndf 69.74 / 85
p0 563.6 ± 567.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −66.67
Std Dev 0
3
2
1
0
−1
−2

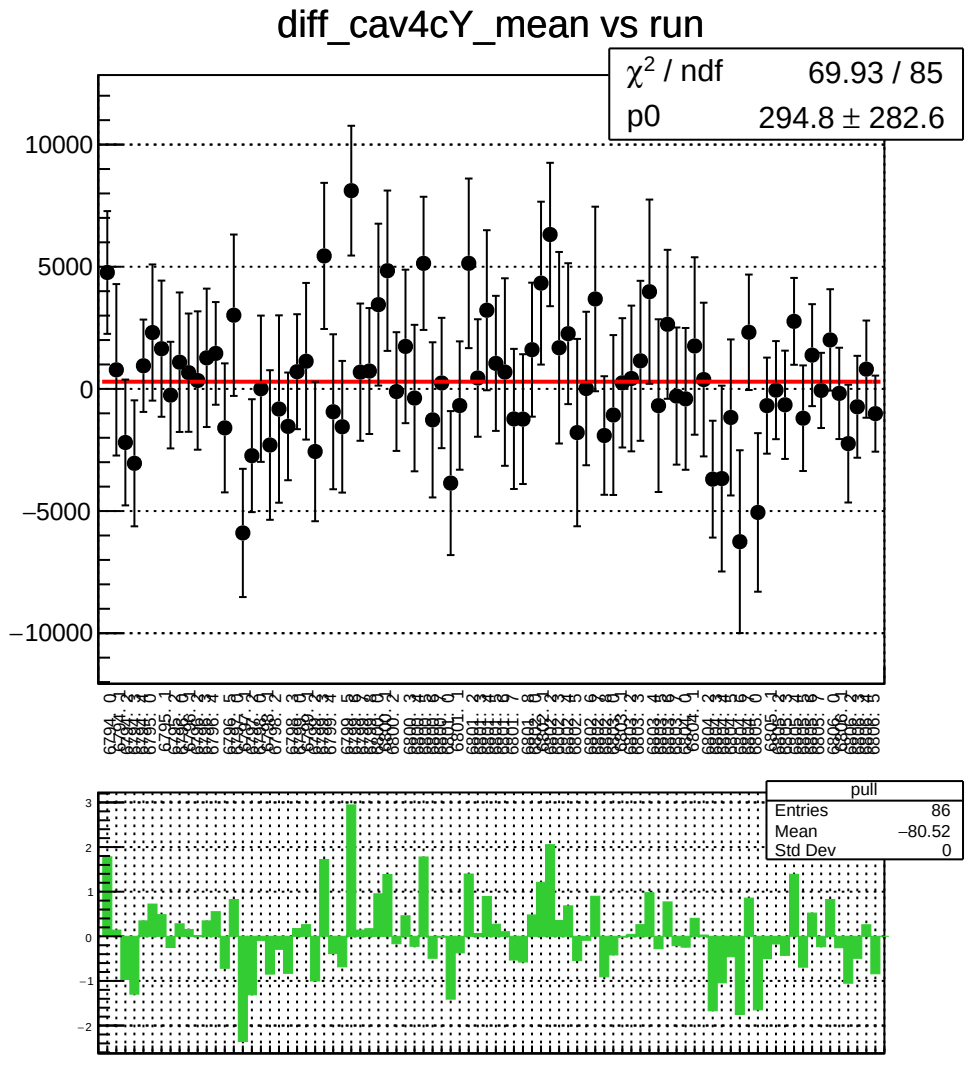

pull1D
Entries 86
Mean 0.01916
Std Dev 0.9003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

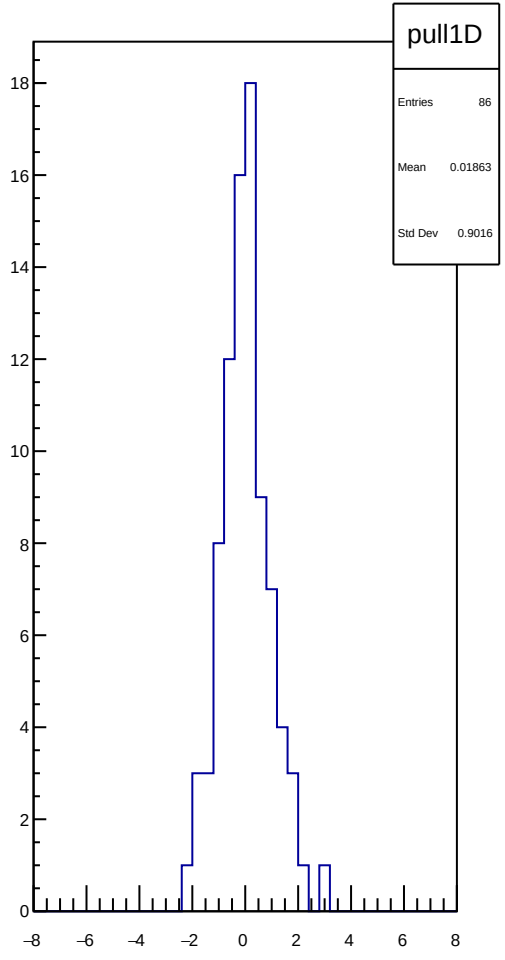

diff_cav4bY_rms vs run
×10^3
800
700
600
500
400
300
χ² / ndf 6.941e+04 / 85
p0 5.1e+05 ± 401.5

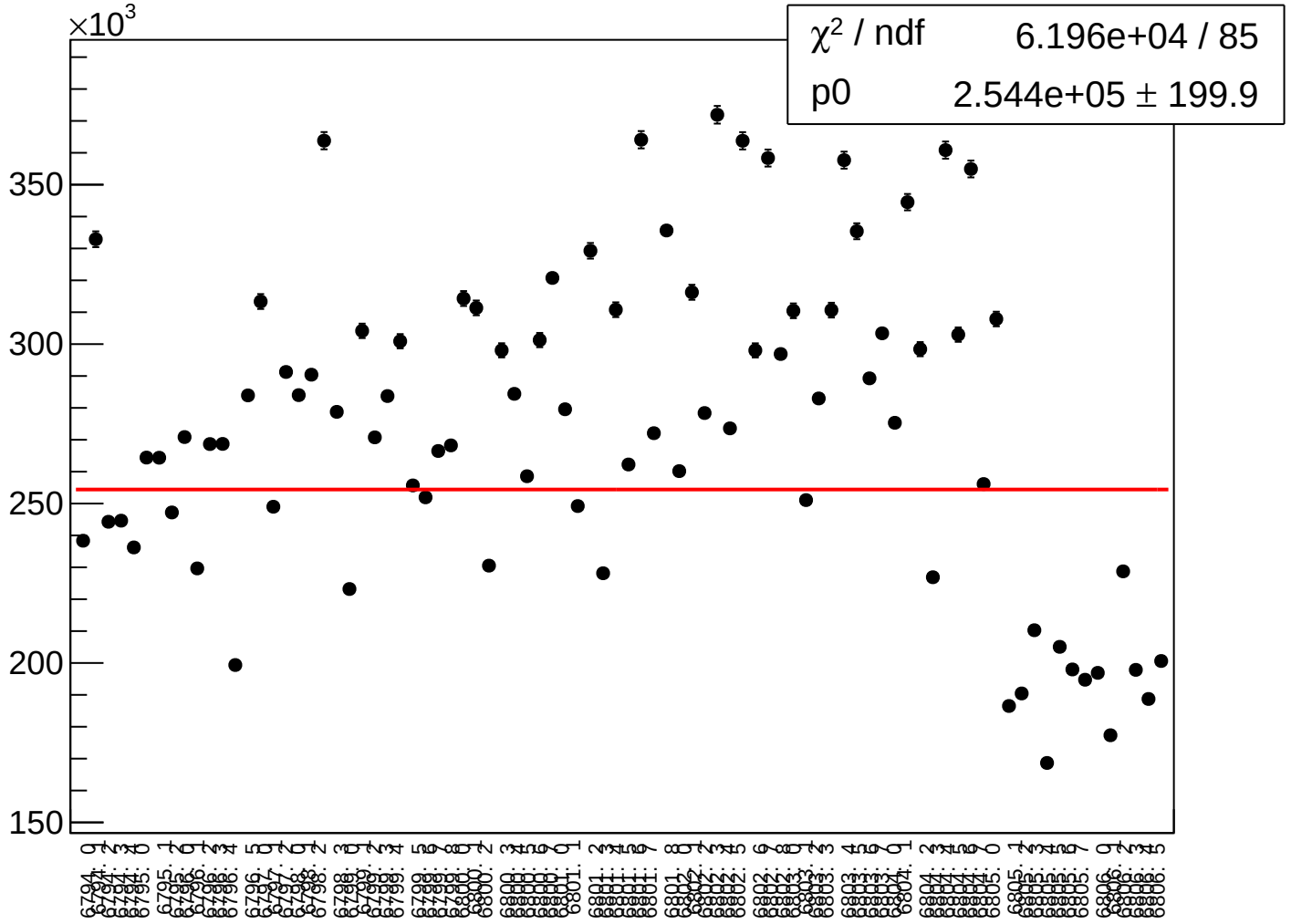

diff_cav4cX_mean vs run
χ² / ndf 87.64 / 85
p0 −116.5 ± 293.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 1029
Std Dev 0
2
1
0
−1
−2

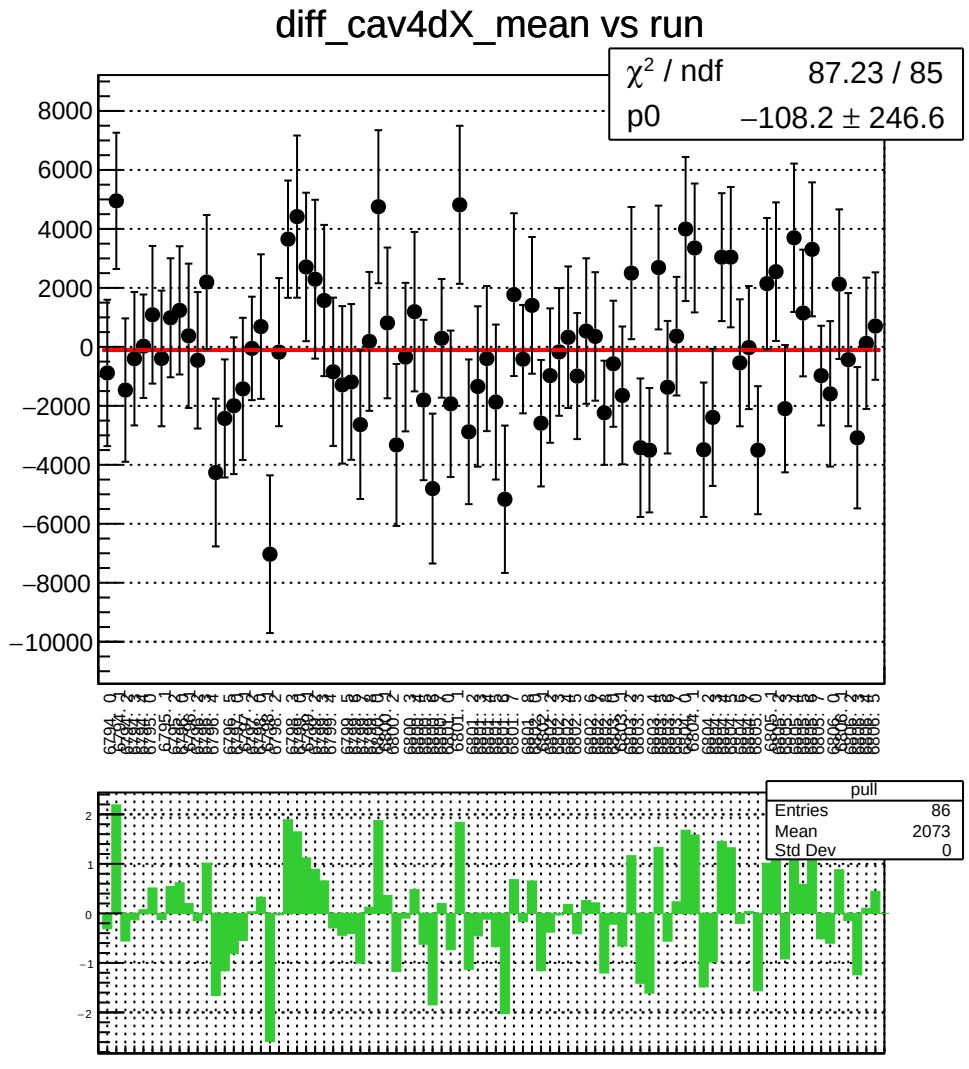

pull1D
Entries 86
Mean 0.0005389
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

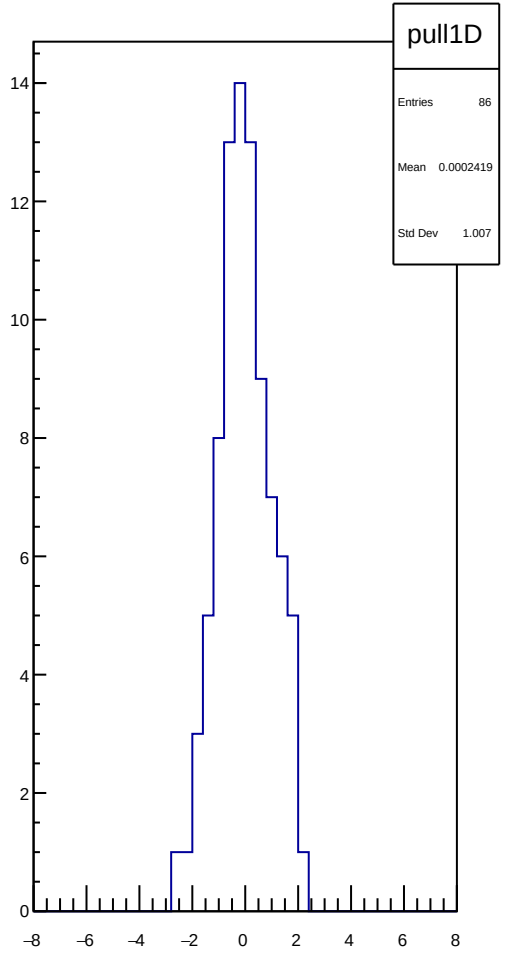

diff_cav4cX_rms vs run
×10^3
χ² / ndf 8533 / 85
p0 2.682e+05 ± 207.3
320
310
300
290
280
270
260
250
240
230

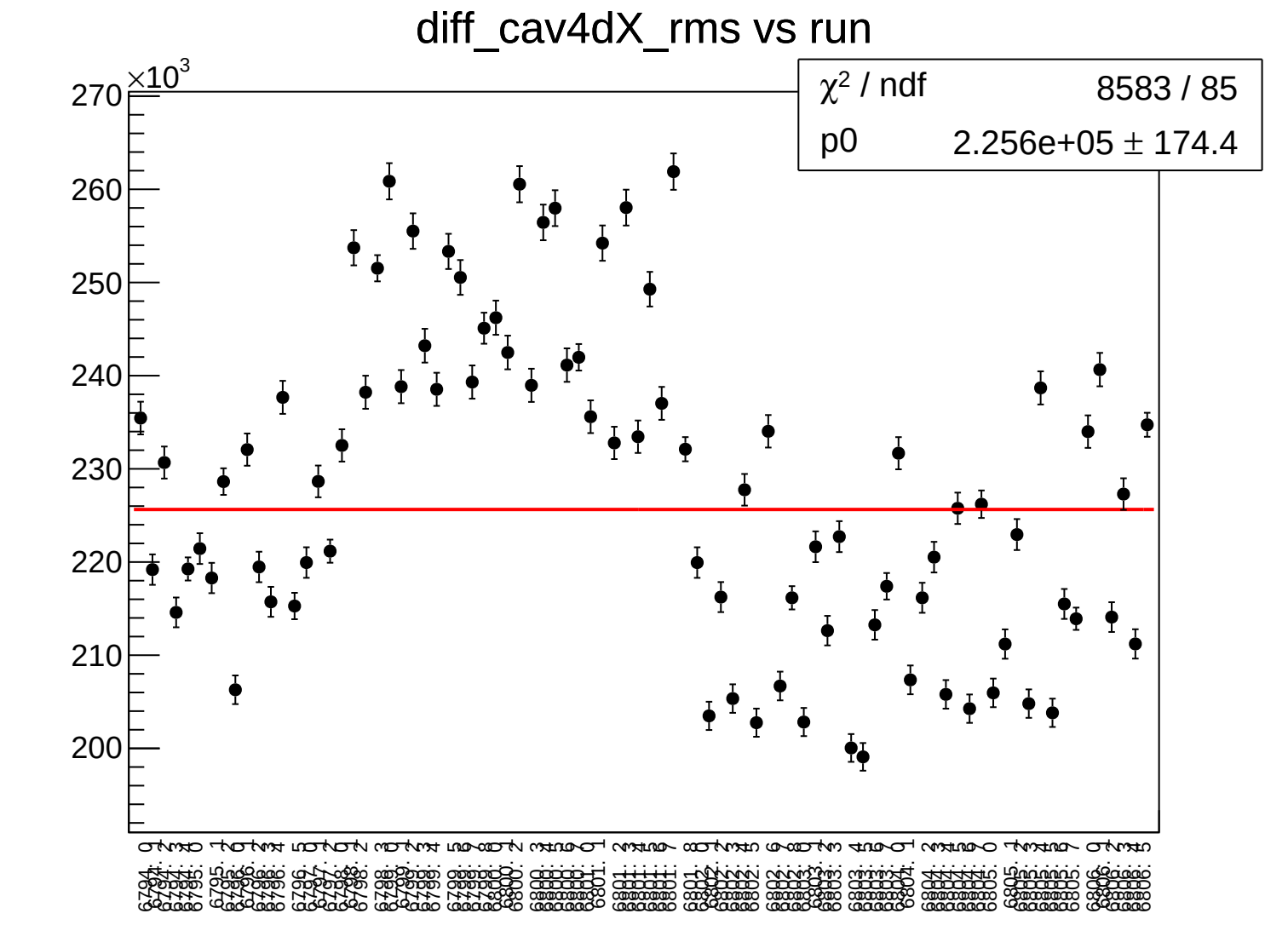

diff_cav4cY_mean vs run
χ^2 / ndf 69.93 / 85
p0 294.8 ± 282.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −80.52
Std Dev 0
3
2
1
0
−1
−2

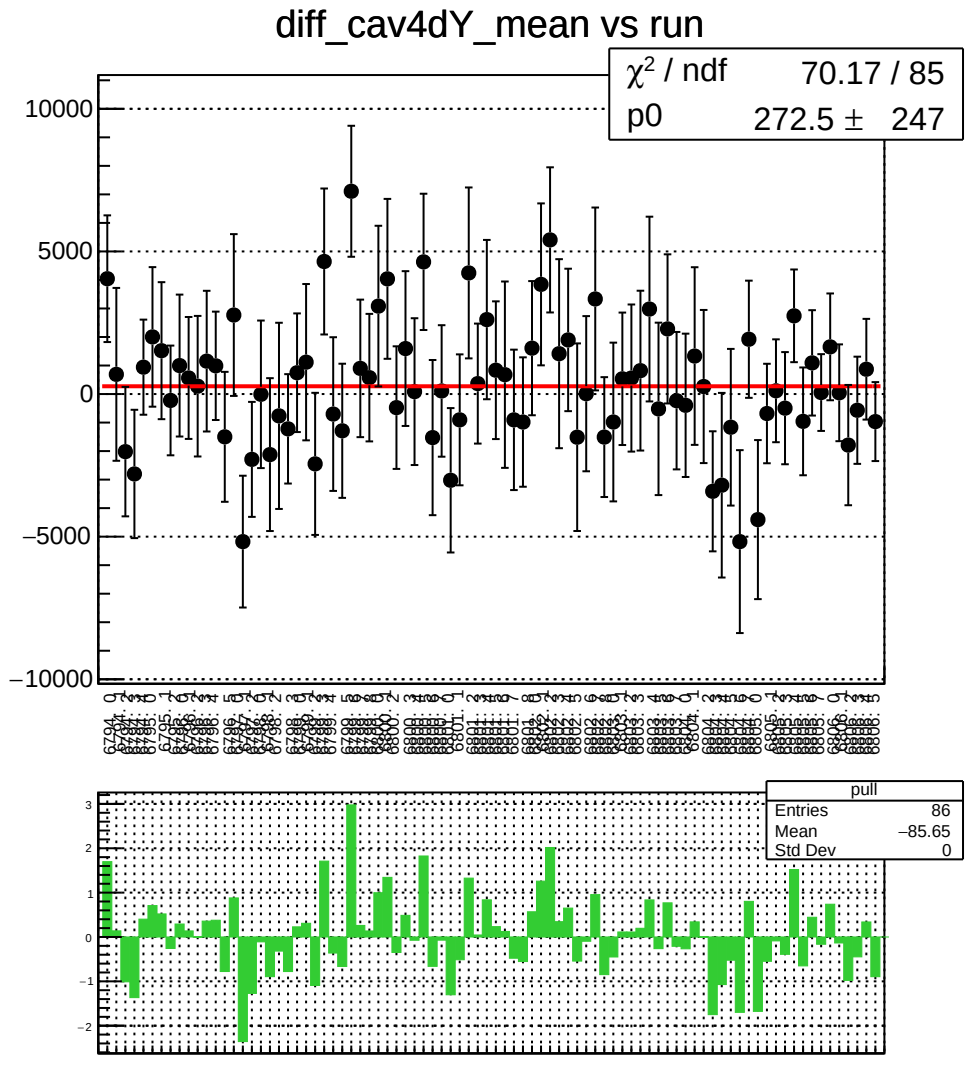

pull1D
Entries 86
Mean 0.01863
Std Dev 0.9016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

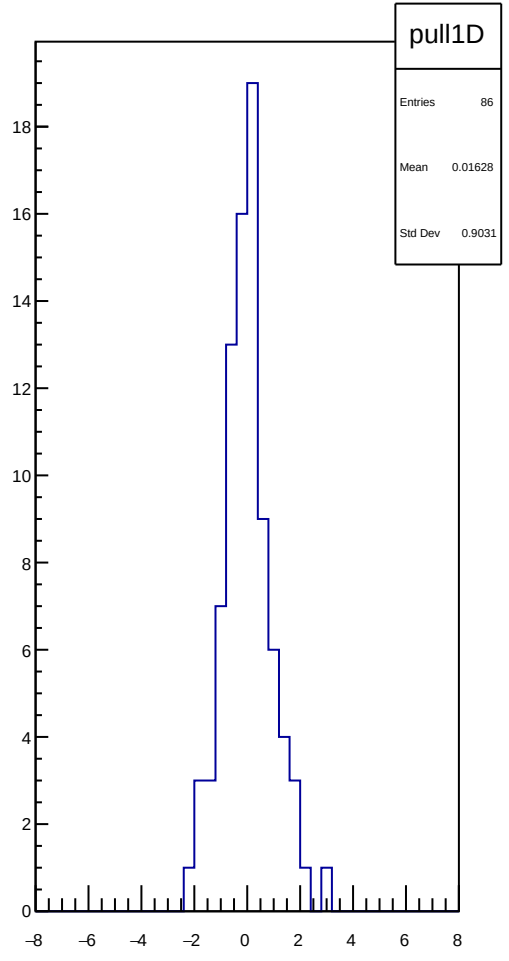

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 6.196e+04 / 85
p0 2.544e+05 ± 199.9
350
300
250
200
150

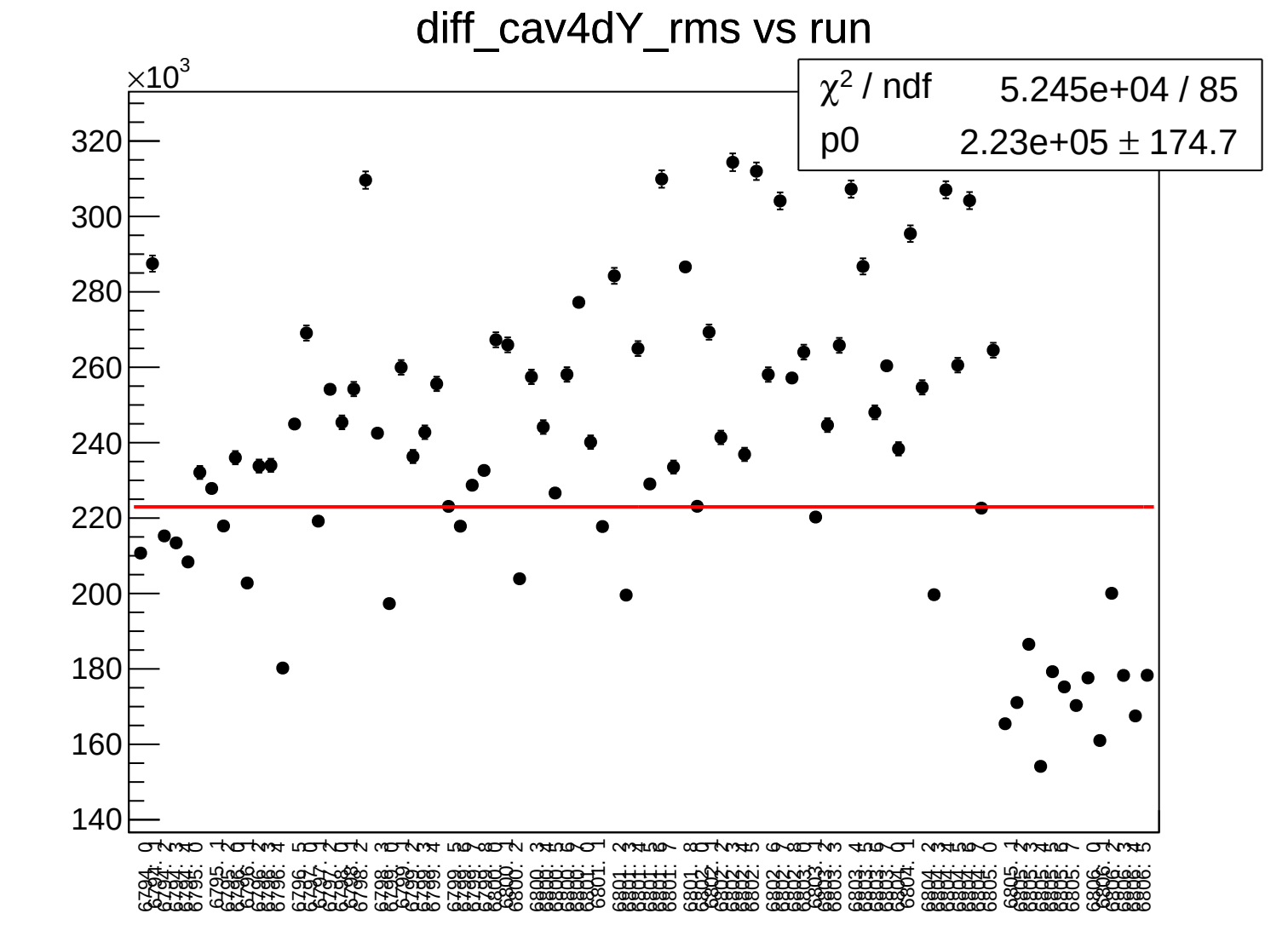

diff_cav4dX_mean vs run
χ² / ndf 87.23 / 85
p0 −108.2 ± 246.6
pull
Entries 86
Mean 2073
Std Dev 0

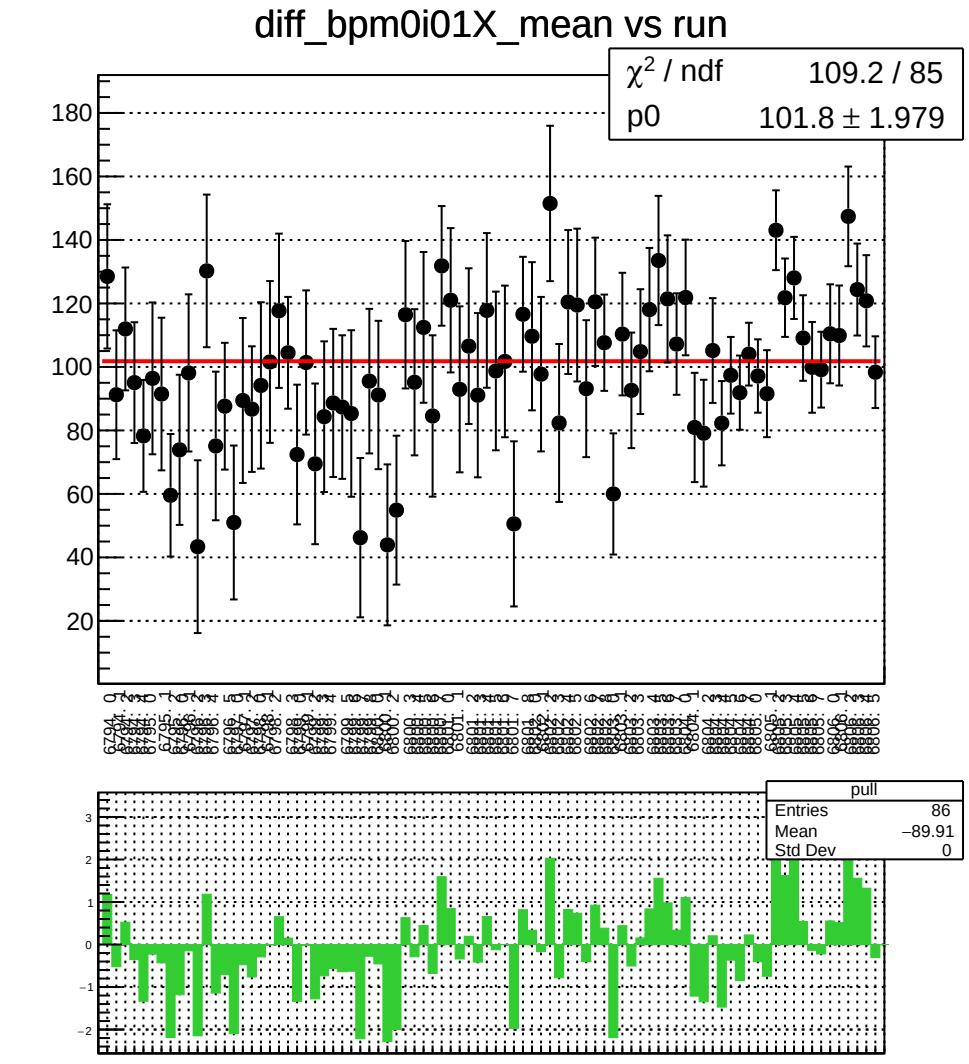

pull1D
Entries 86
Mean 0.0002419
Std Dev 1.007

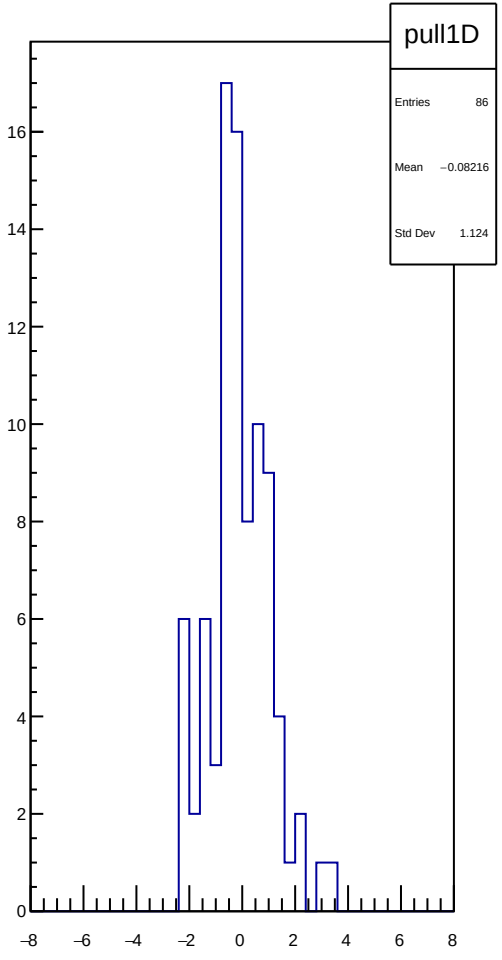

diff_cav4dX_rms vs run
×10^3
270
260
250
240
230
220
210
200
χ² / ndf 8583 / 85
p0 2.256e+05 ± 174.4

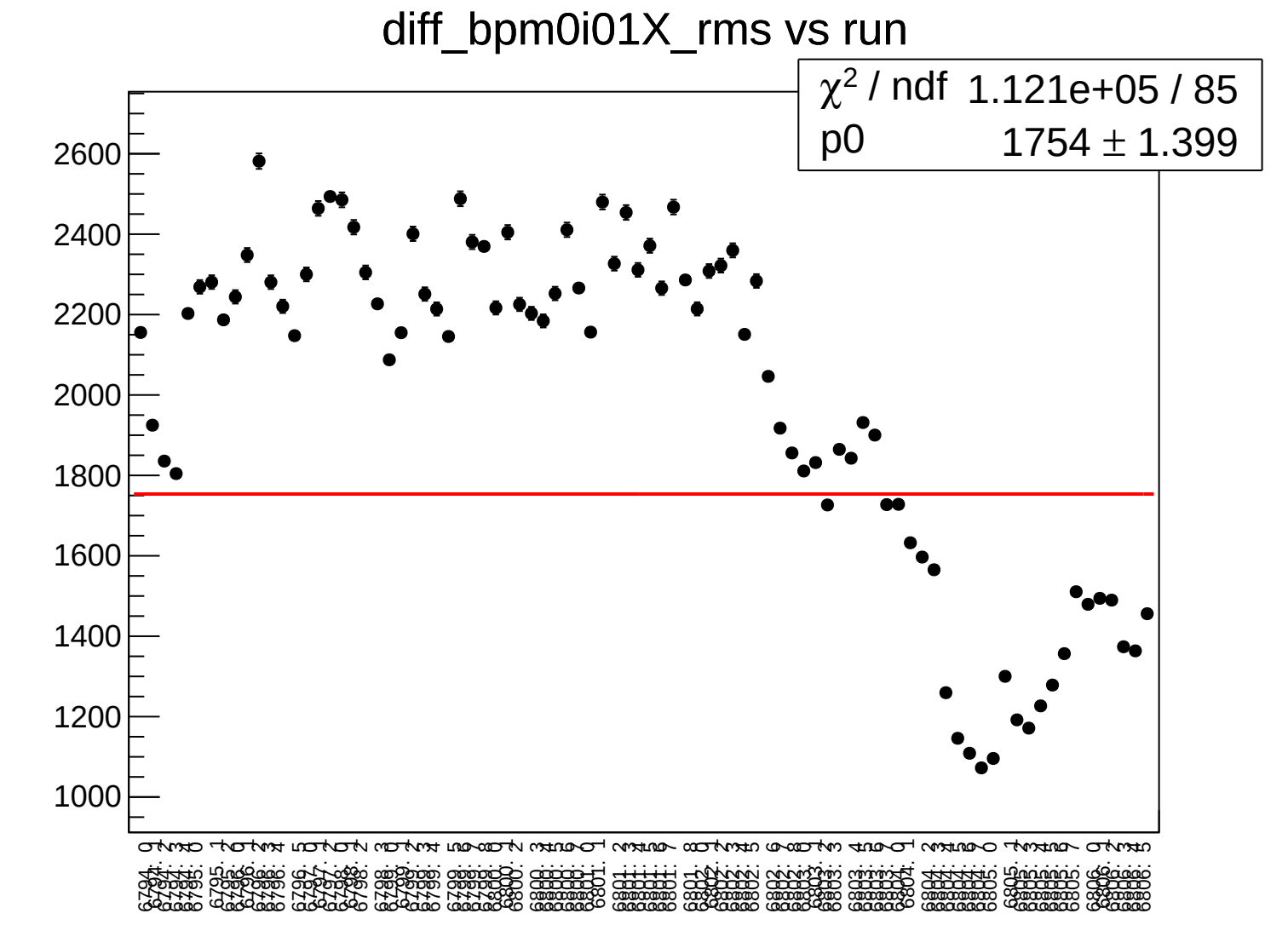

diff_cav4dY_mean vs run
χ² / ndf 70.17 / 85
p0 272.5 ± 247
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −85.65
Std Dev 0
3
2
1
0
−1
−2

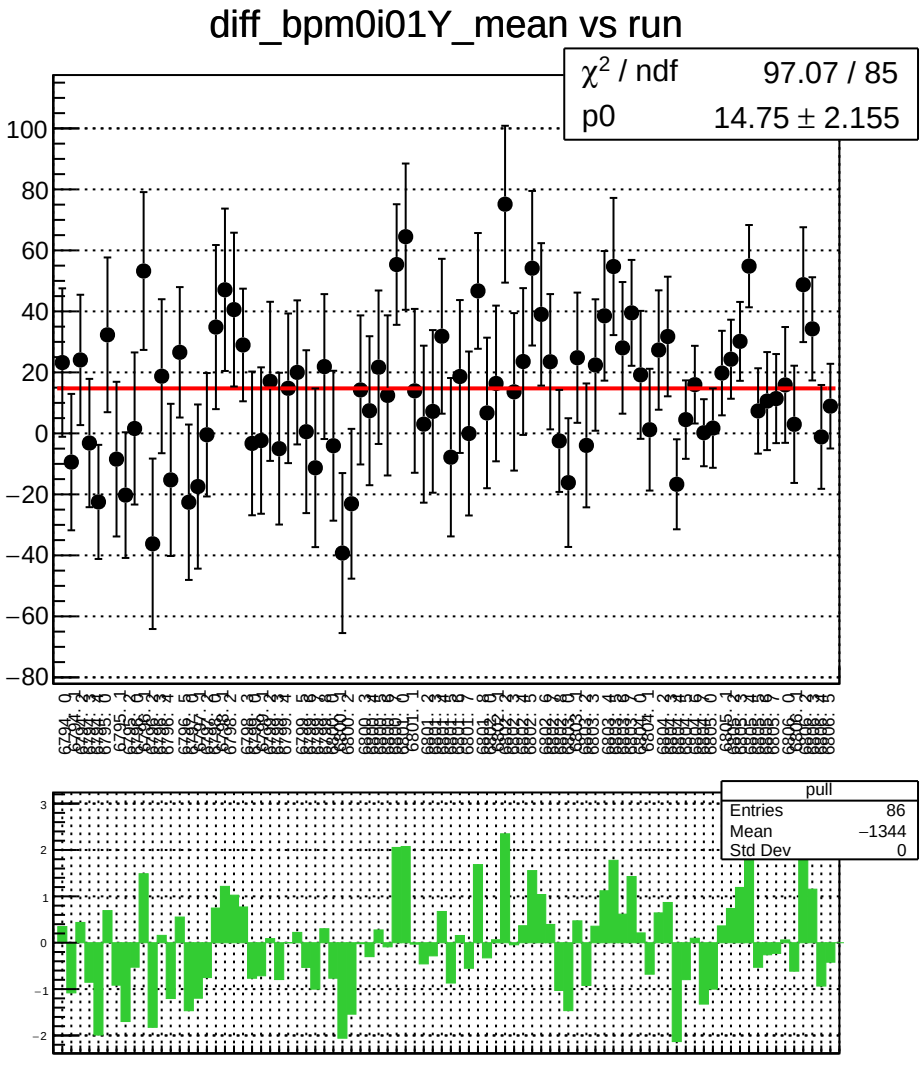

pull1D
Entries 86
Mean 0.01628
Std Dev 0.9031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

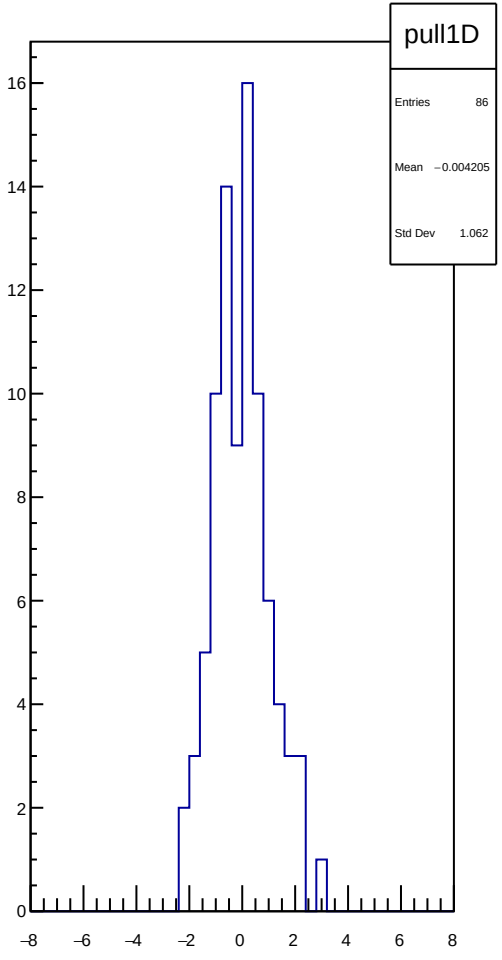

diff_cav4dY_rms vs run
×10^3
320
300
280
260
240
220
200
180
160
140
χ² / ndf 5.245e+04 / 85
p0 2.23e+05 ± 174.7

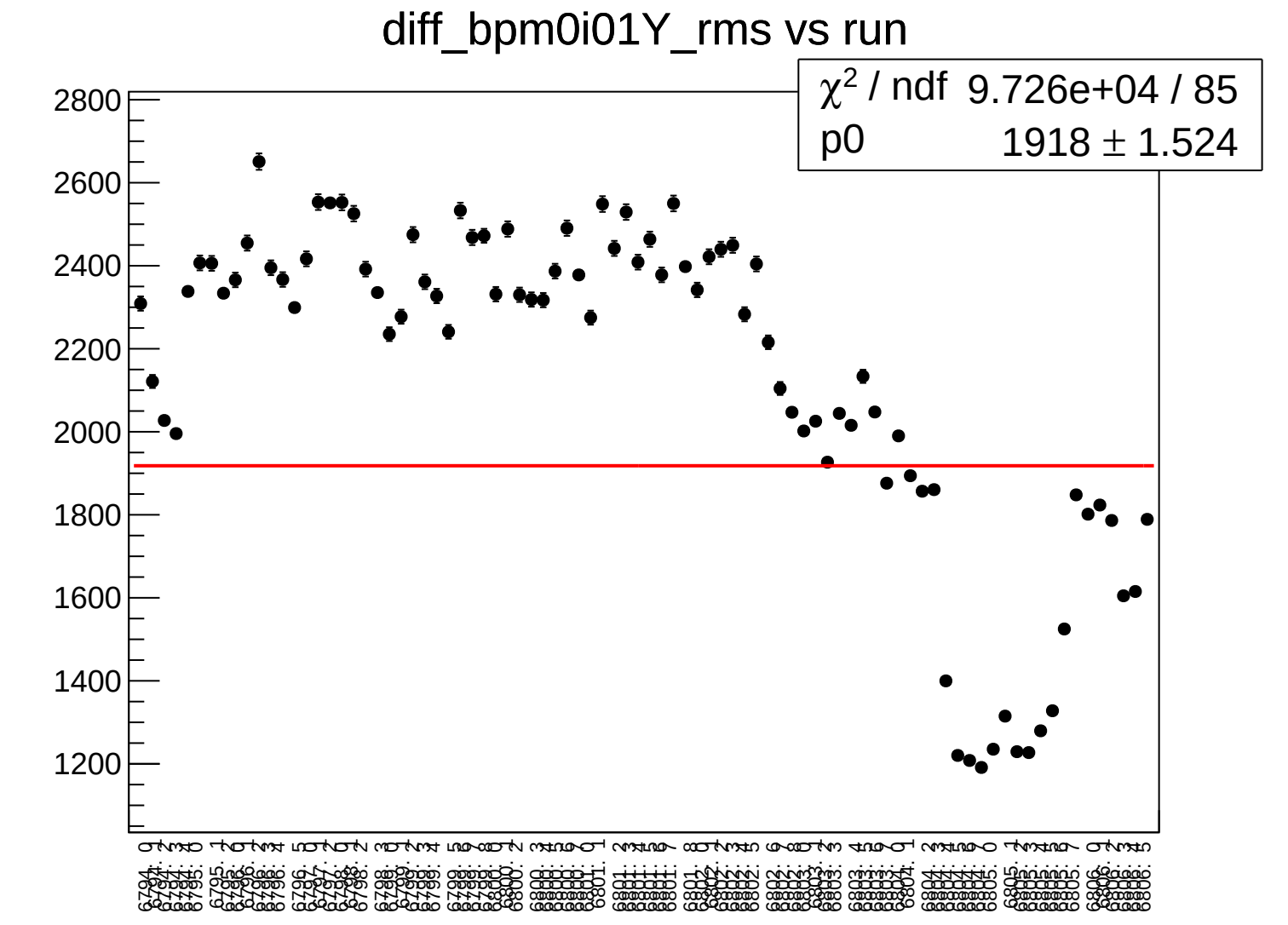

diff_bpm0i01X_mean vs run
χ^2 / ndf 109.2 / 85
p0 101.8 ± 1.979
pull
Entries 86
Mean −89.91
Std Dev 0

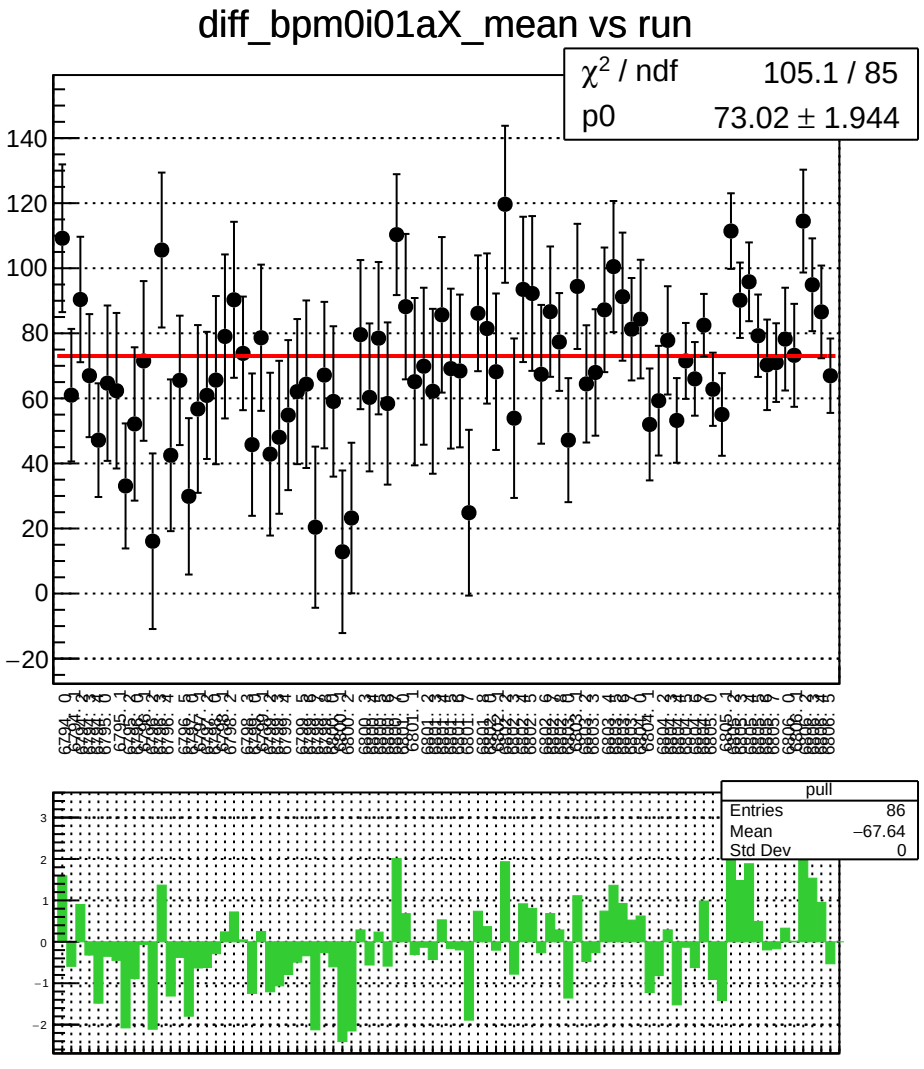

pull1D
Entries 86
Mean −0.08216
Std Dev 1.124

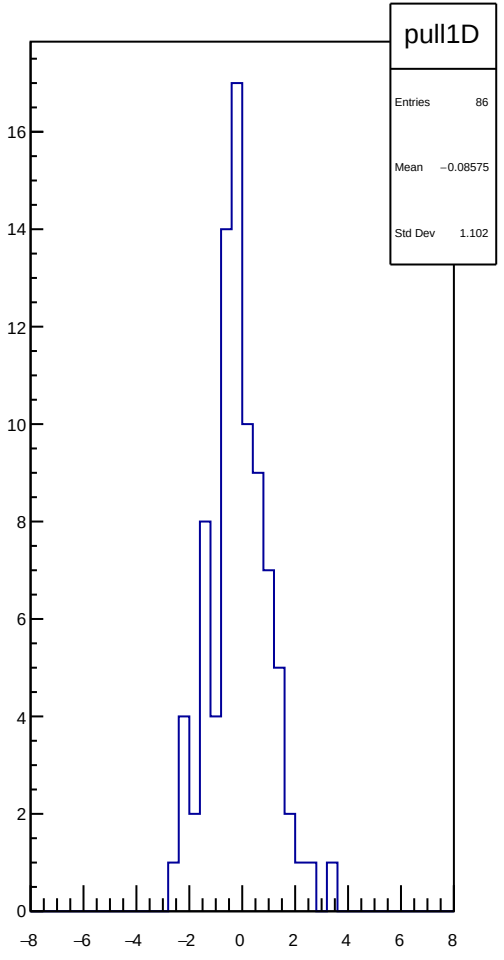

diff_bpm0i01X_rms vs run
χ^2 / ndf 1.121e+05 / 85
p0 1754 ± 1.399
2600
2400
2200
2000
1800
1600
1400
1200
1000

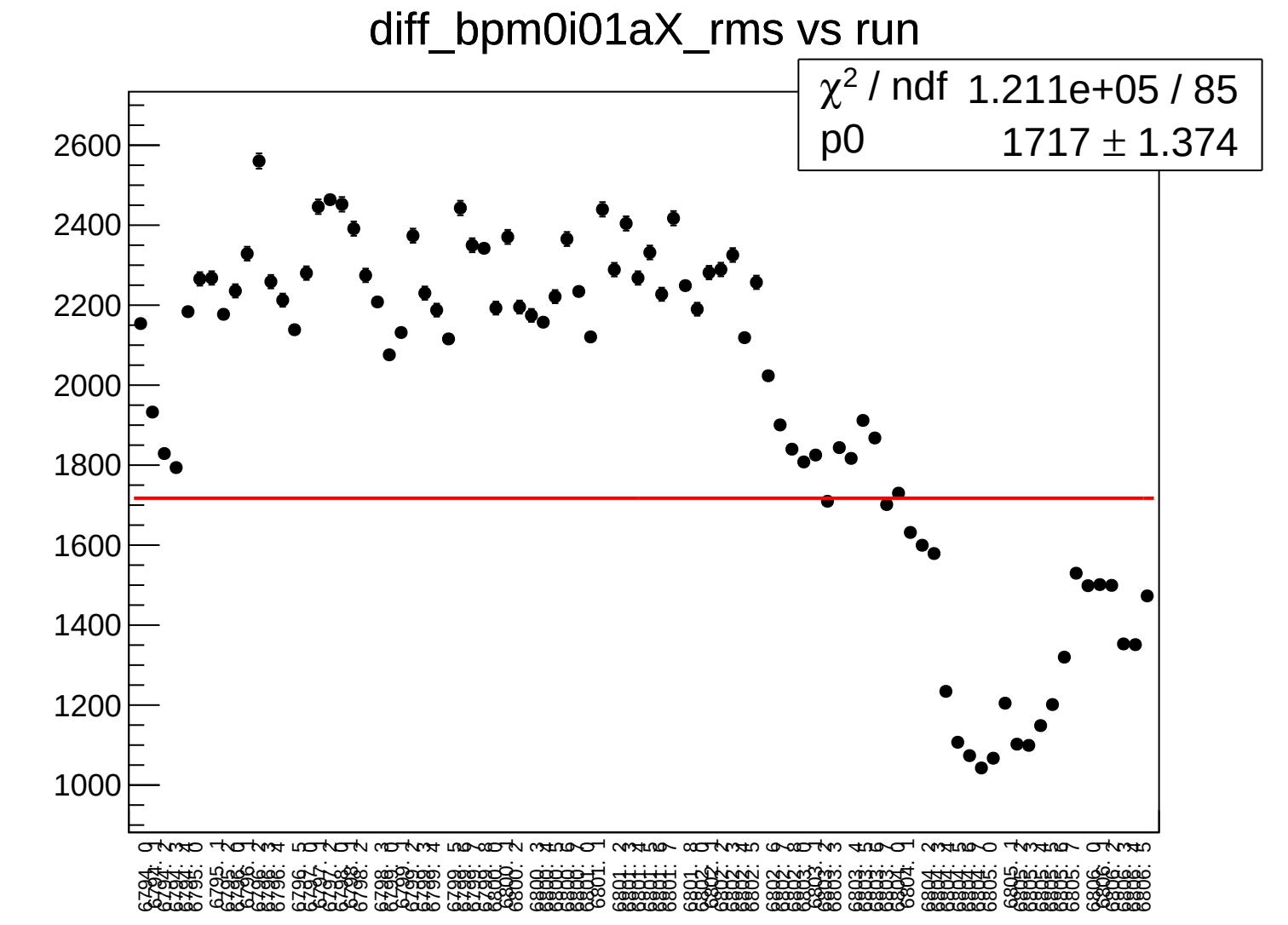

diff_bpm0i01Y_mean vs run
χ^2 / ndf 97.07 / 85
p0 14.75 ± 2.155
pull
Entries 86
Mean −1344
Std Dev 0

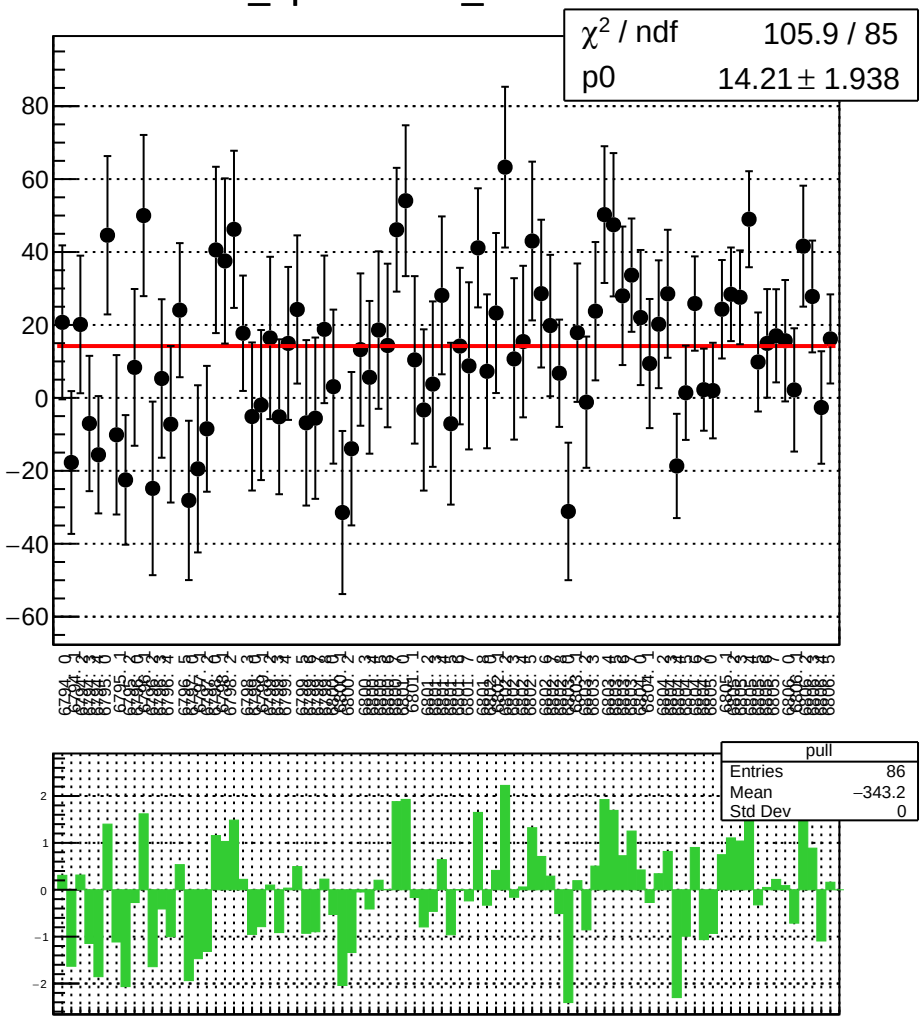

pull1D
Entries 86
Mean −0.004205
Std Dev 1.062

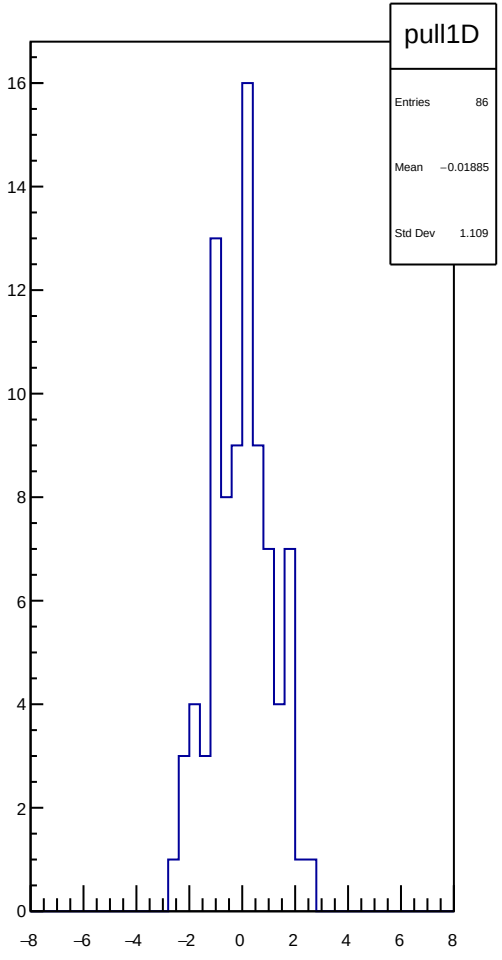

diff_bpm0i01Y_rms vs run
χ^2 / ndf 9.726e+04 / 85
p0 1918 ± 1.524
2800
2600
2400
2200
2000
1800
1600
1400
1200

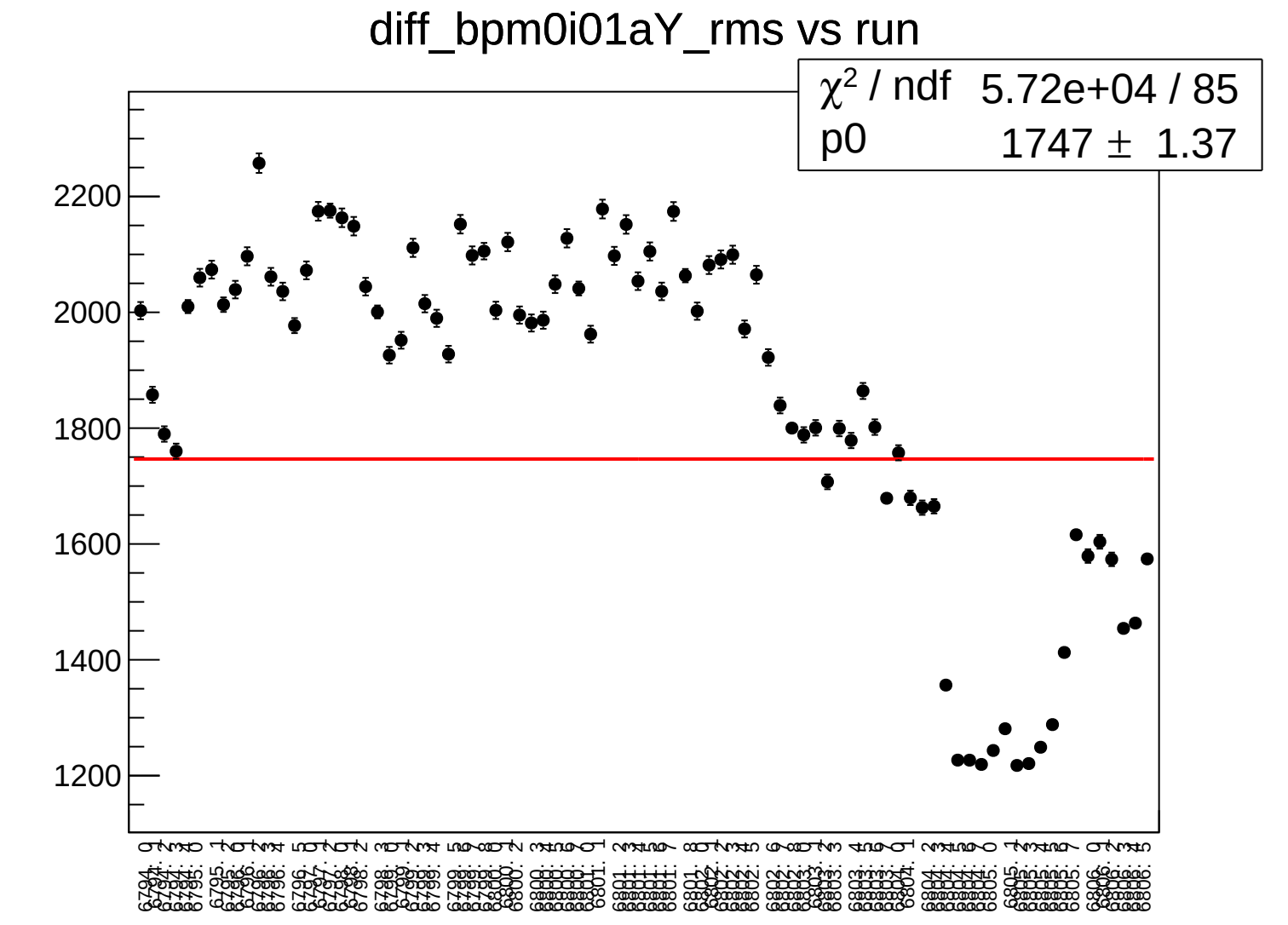

diff_bpm0i01aX_mean vs run
χ² / ndf 105.1 / 85
p0 73.02 ± 1.944
pull
Entries 86
Mean −67.64
Std Dev 0

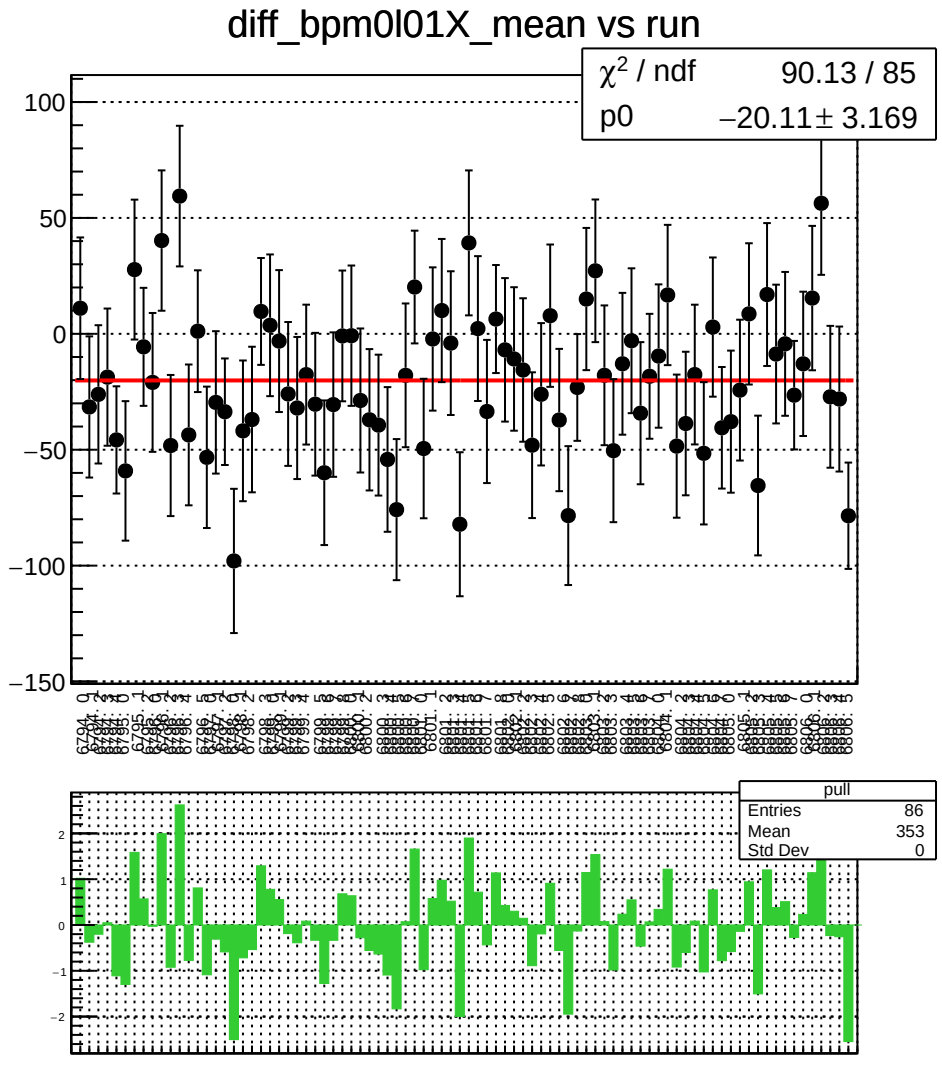

pull1D
Entries 86
Mean −0.08575
Std Dev 1.102

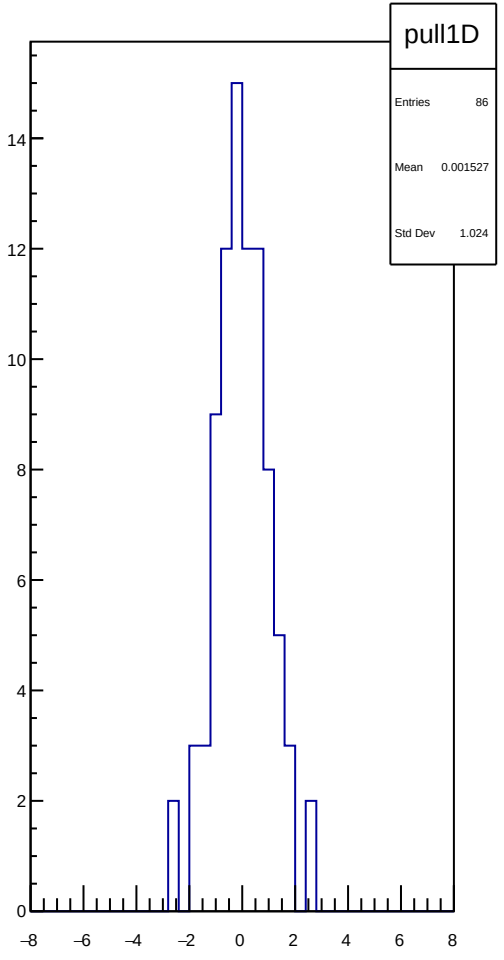

diff_bpm0i01aX_rms vs run
χ^2 / ndf 1.211e+05 / 85
p0 1717 ± 1.374
2600
2400
2200
2000
1800
1600
1400
1200
1000

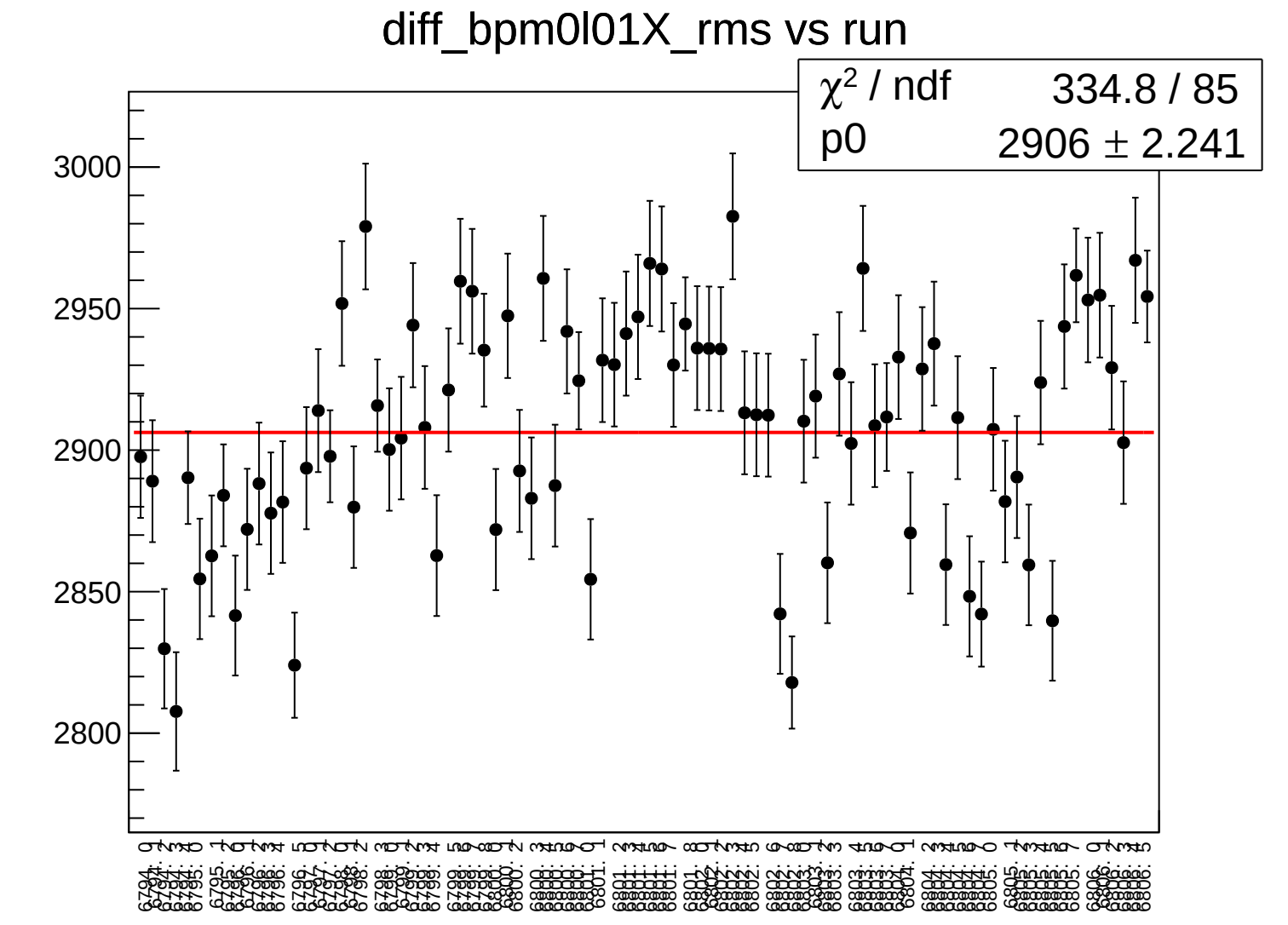

diff_bpm0i01aY_mean vs run
χ² / ndf 105.9 / 85
p0 14.21 ± 1.938
pull
Entries 86
Mean −343.2
Std Dev 0

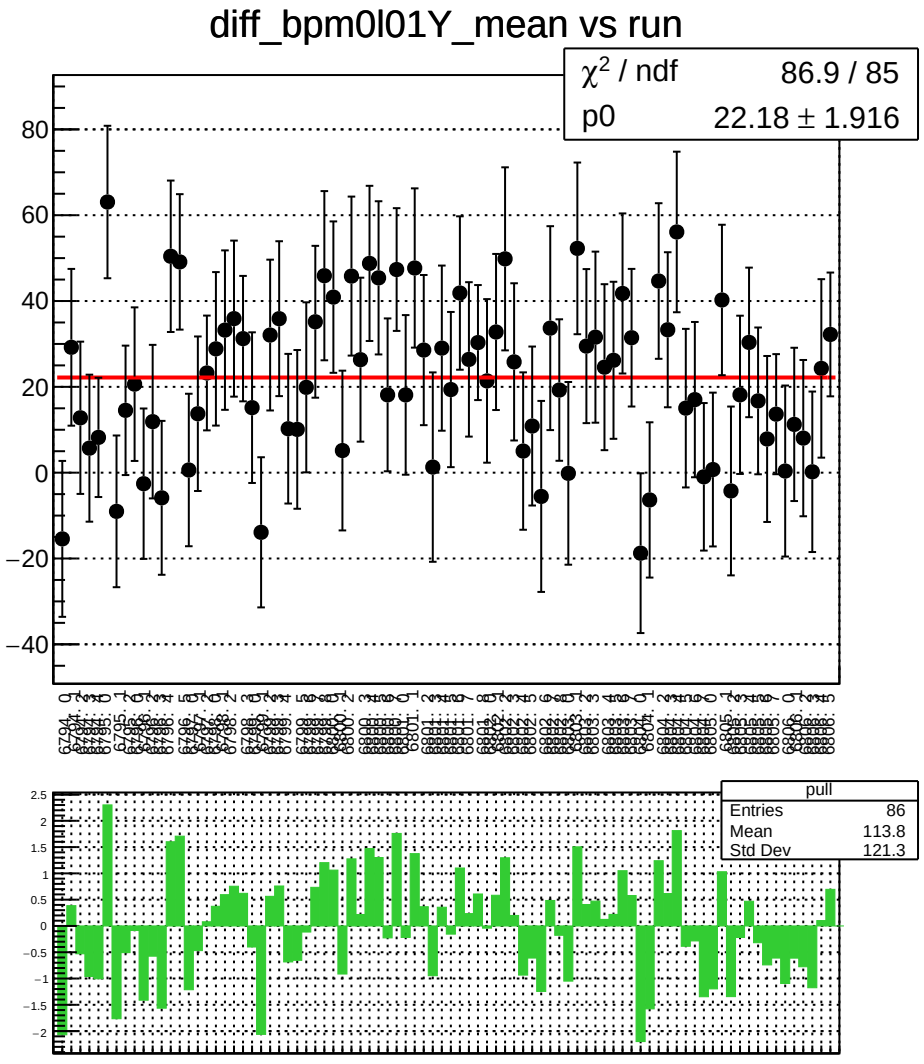

pull1D
Entries 86
Mean −0.01885
Std Dev 1.109

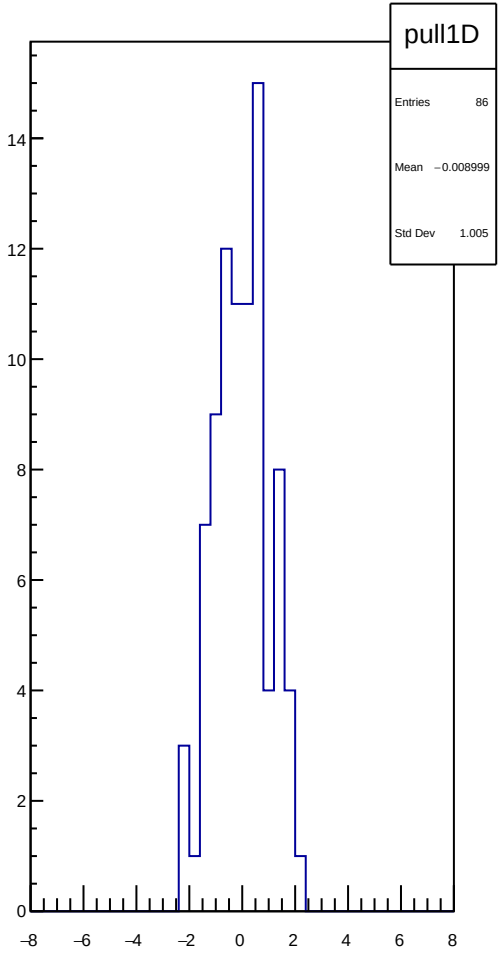

diff_bpm0i01aY_rms vs run
χ² / ndf 5.72e+04 / 85
p0 1747 ± 1.37
2200
2000
1800
1600
1400
1200

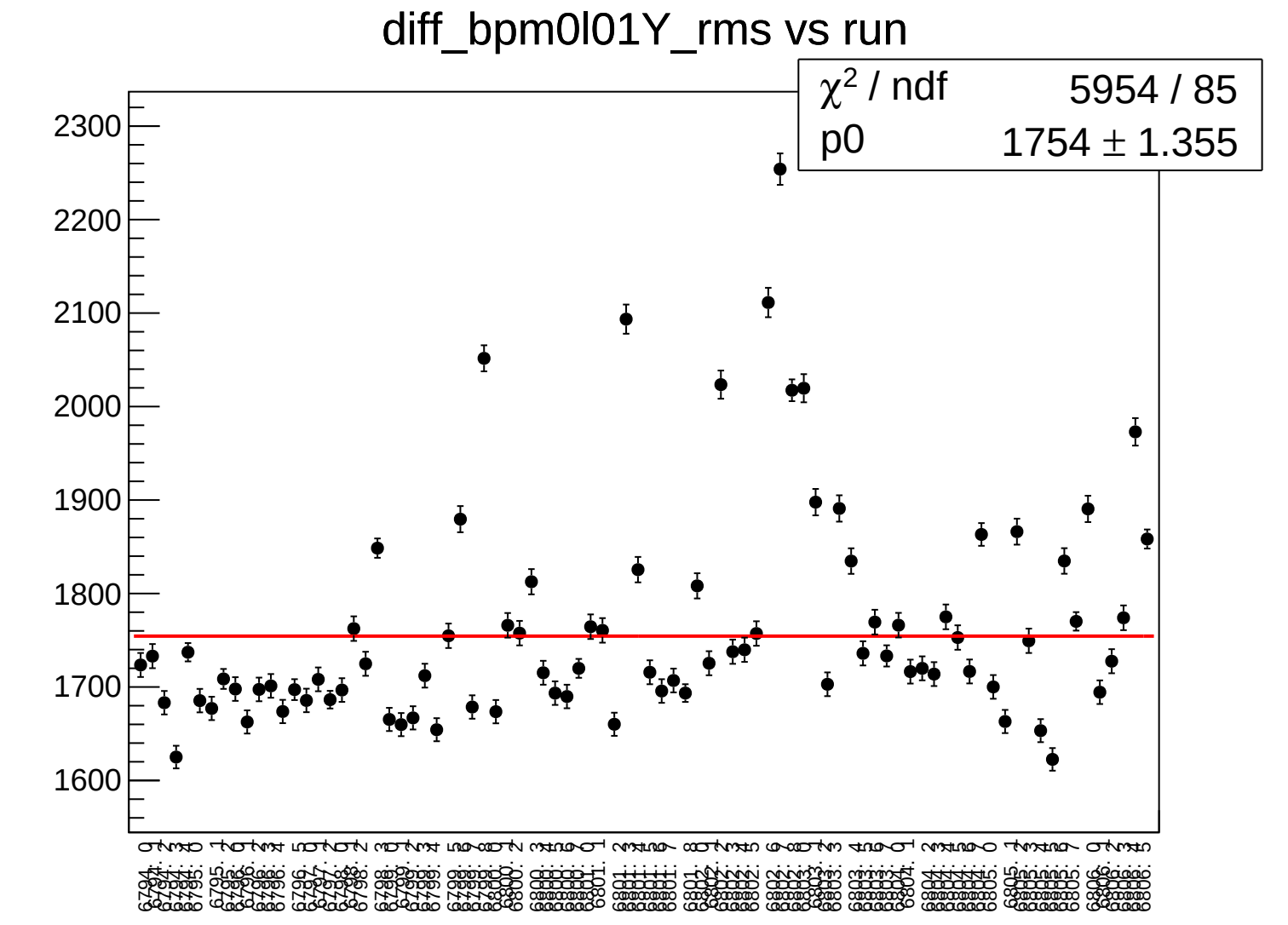

diff_bpm0l01X_mean vs run
χ^2 / ndf 90.13 / 85
p0 −20.11± 3.169
pull
Entries 86
Mean 353
Std Dev 0

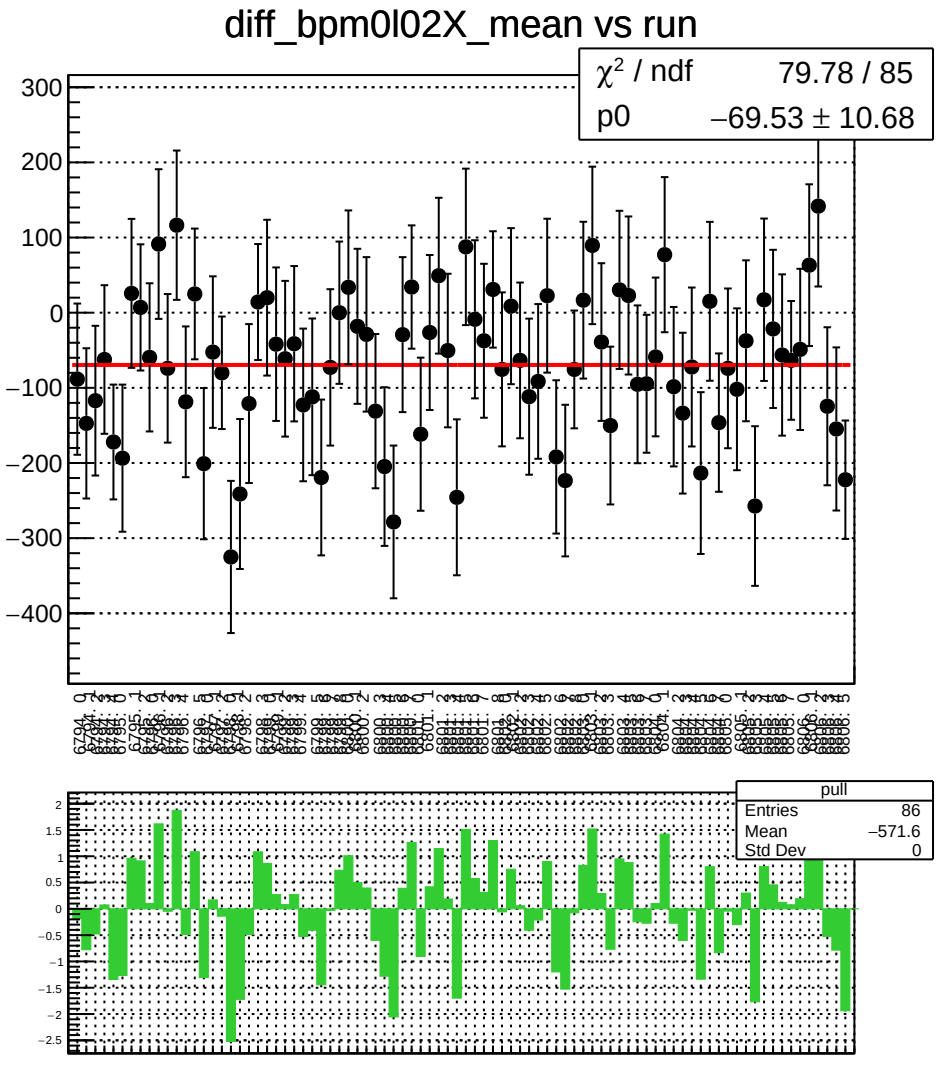

pull1D
Entries 86
Mean 0.001527
Std Dev 1.024

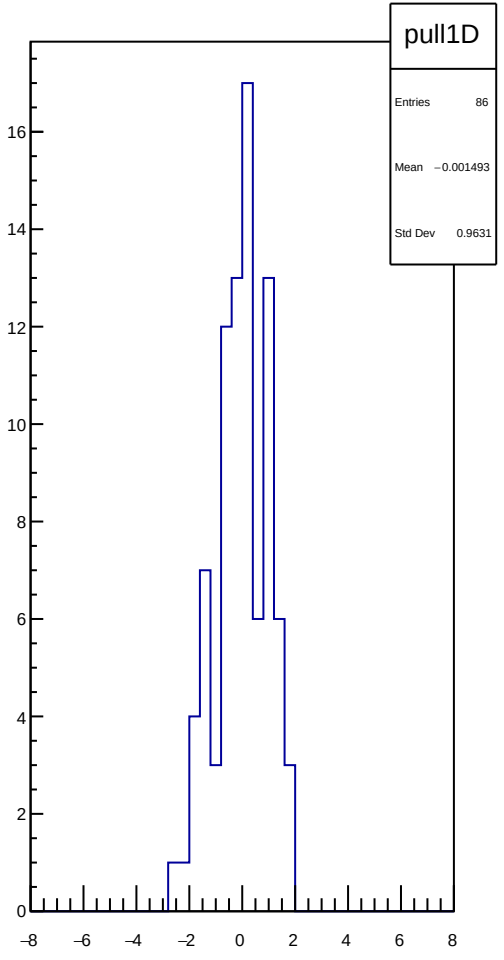

diff_bpm0l01X_rms vs run
χ² / ndf 334.8 / 85
p0 2906 ± 2.241
3000
2950
2900
2850
2800

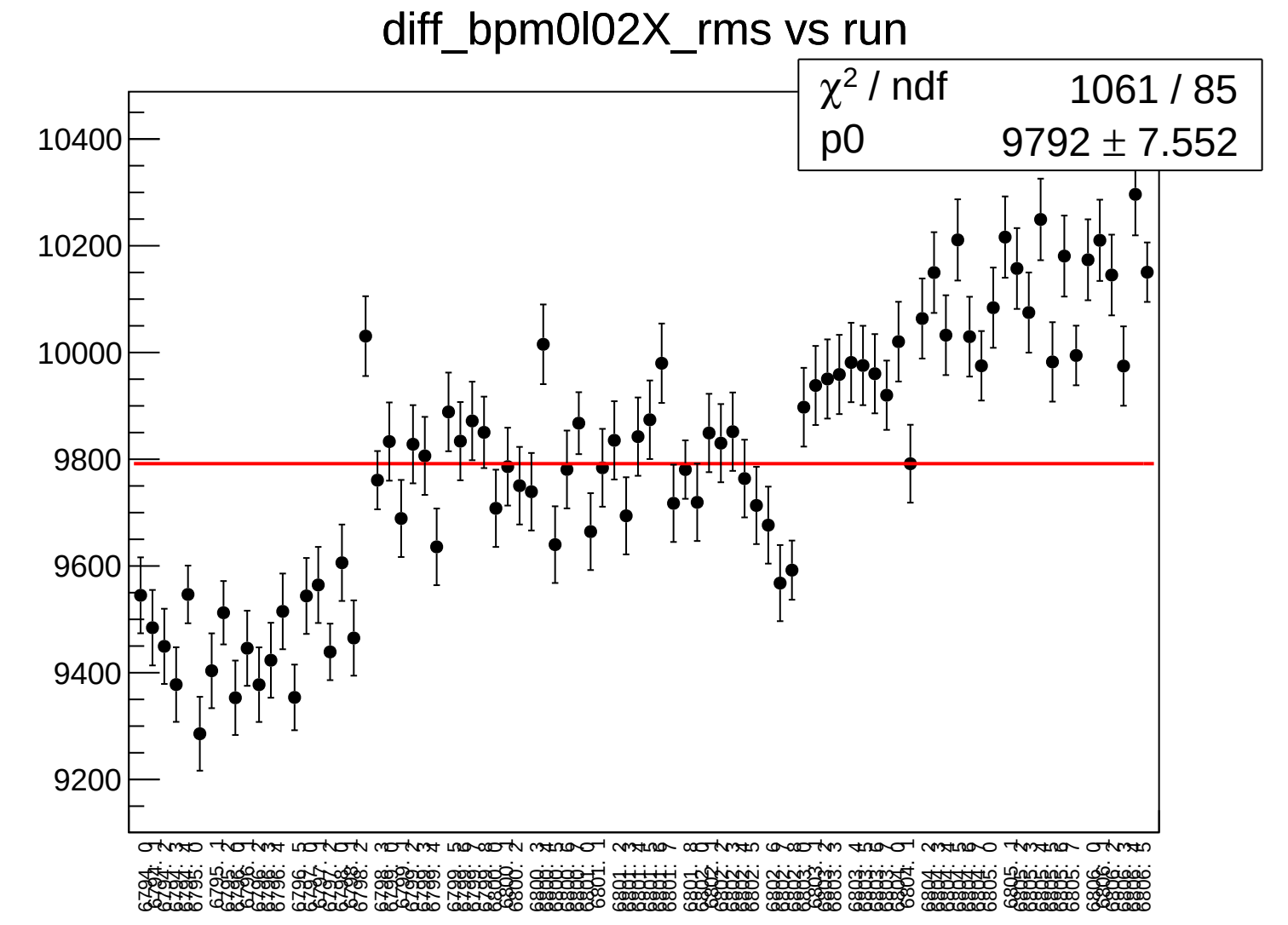

diff_bpm0l01Y_mean vs run
χ^2 / ndf 86.9 / 85
p0 22.18 ± 1.916
pull
Entries 86
Mean 113.8
Std Dev 121.3

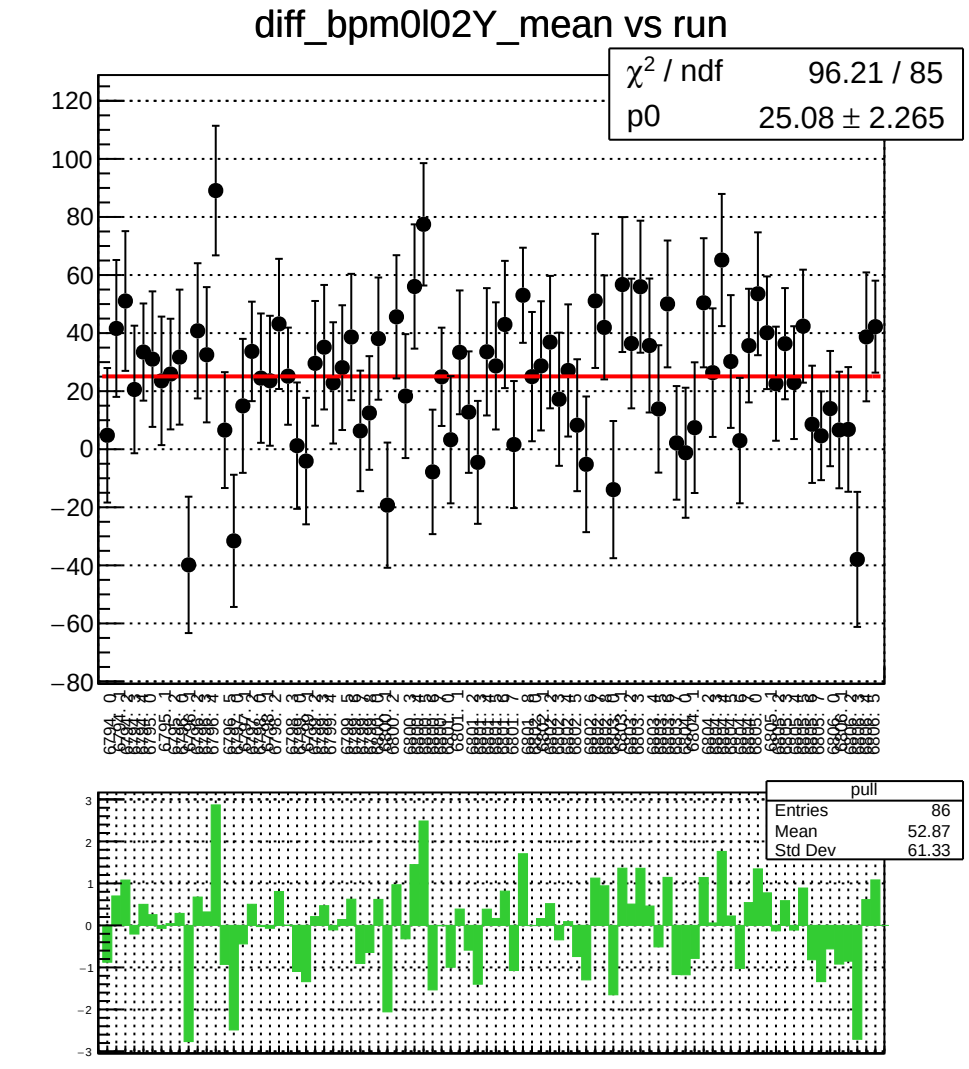

pull1D
Entries 86
Mean −0.008999
Std Dev 1.005

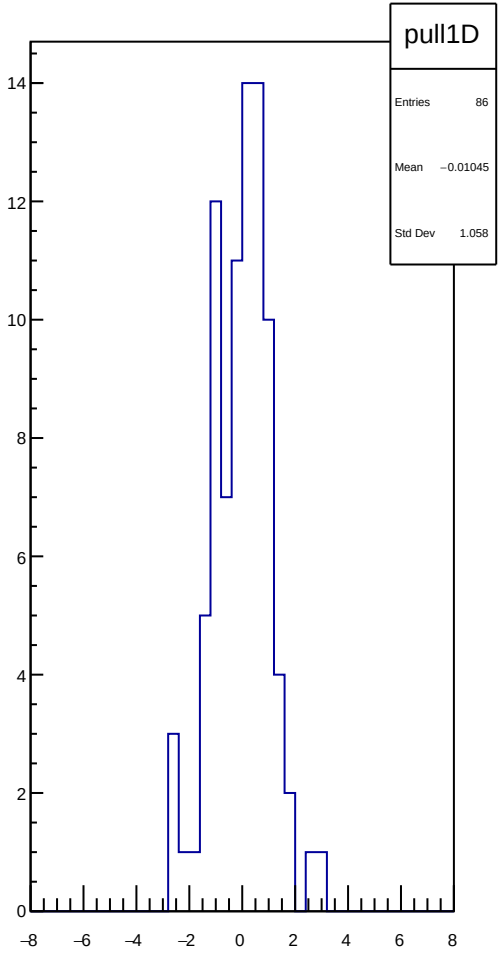

diff_bpm0l01Y_rms vs run
χ² / ndf 5954 / 85
p0 1754 ± 1.355
2300
2200
2100
2000
1900
1800
1700
1600

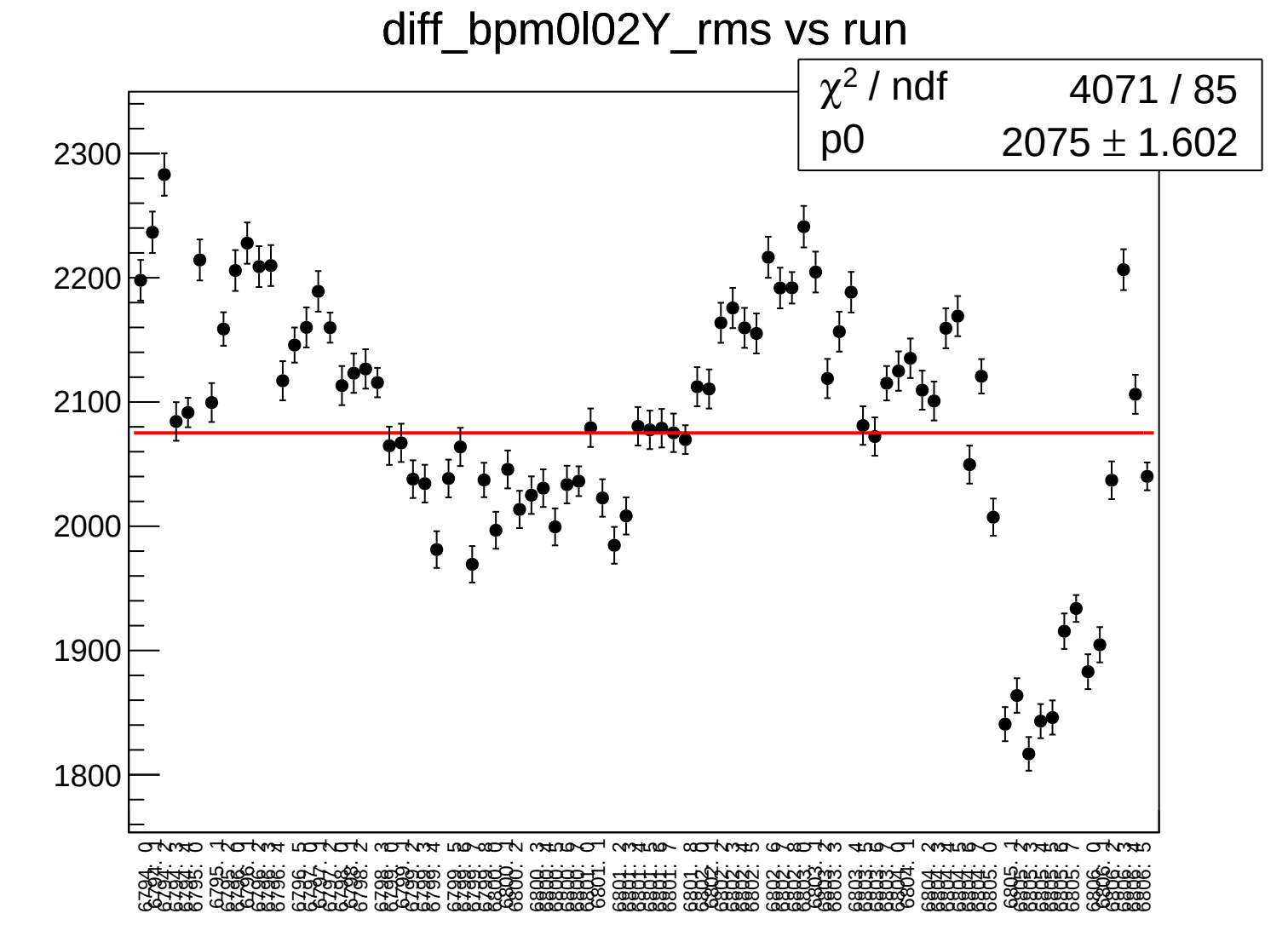

diff_bpm0l02X_mean vs run
χ² / ndf 79.78 / 85
p0 −69.53 ± 10.68
pull
Entries 86
Mean −571.6
Std Dev 0

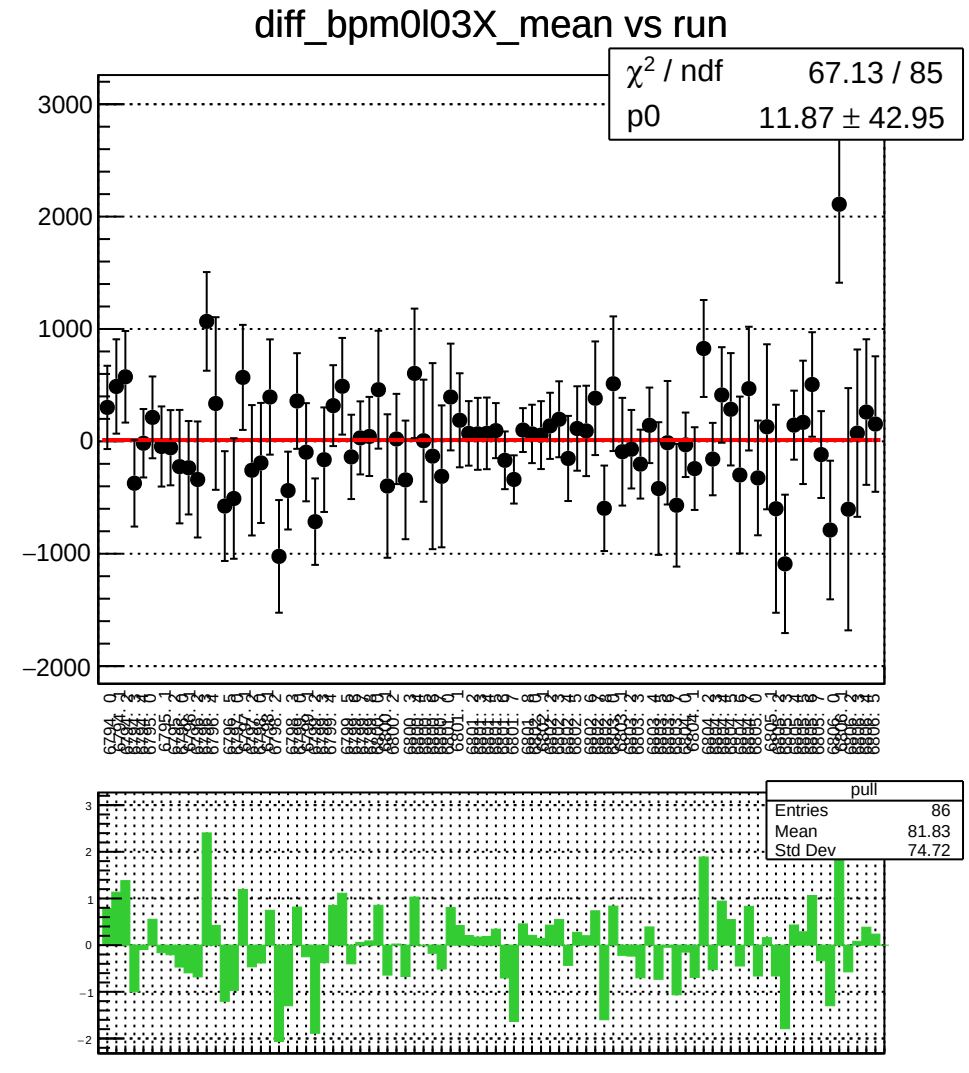

pull1D
Entries 86
Mean −0.001493
Std Dev 0.9631

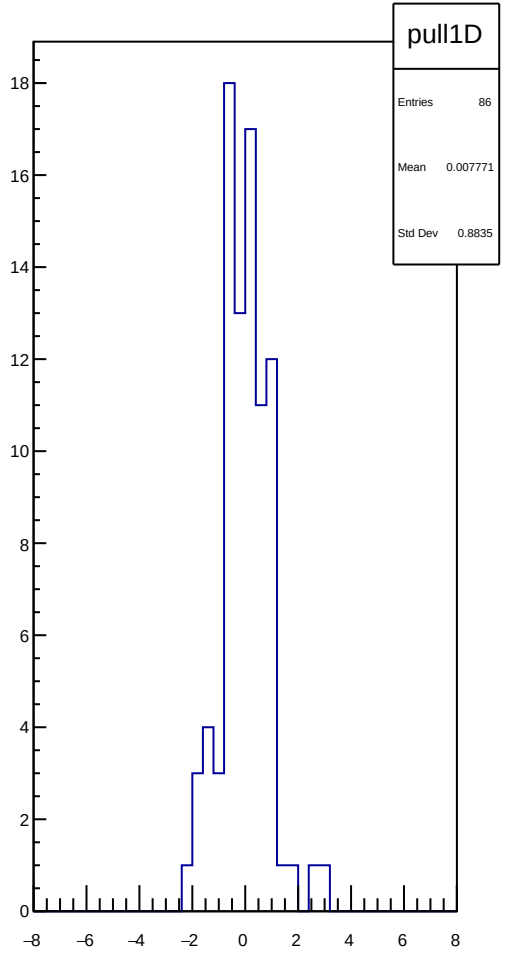

diff_bpm0l02X_rms vs run
χ² / ndf 1061 / 85
p0 9792 ± 7.552
10400
10200
10000
9800
9600
9400
9200

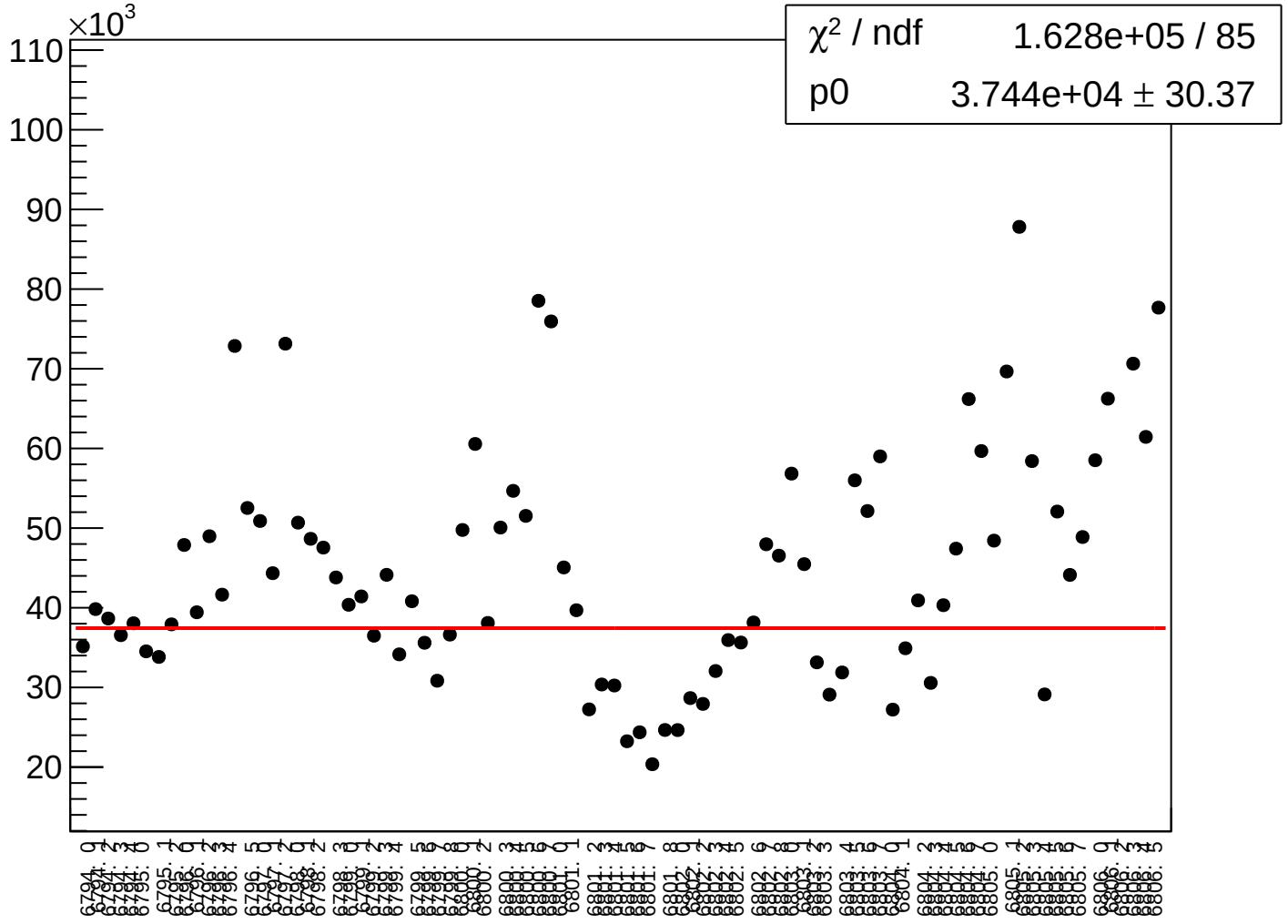

diff_bpm0l02Y_mean vs run
χ² / ndf 96.21 / 85
p0 25.08 ± 2.265
pull
Entries 86
Mean 52.87
Std Dev 61.33

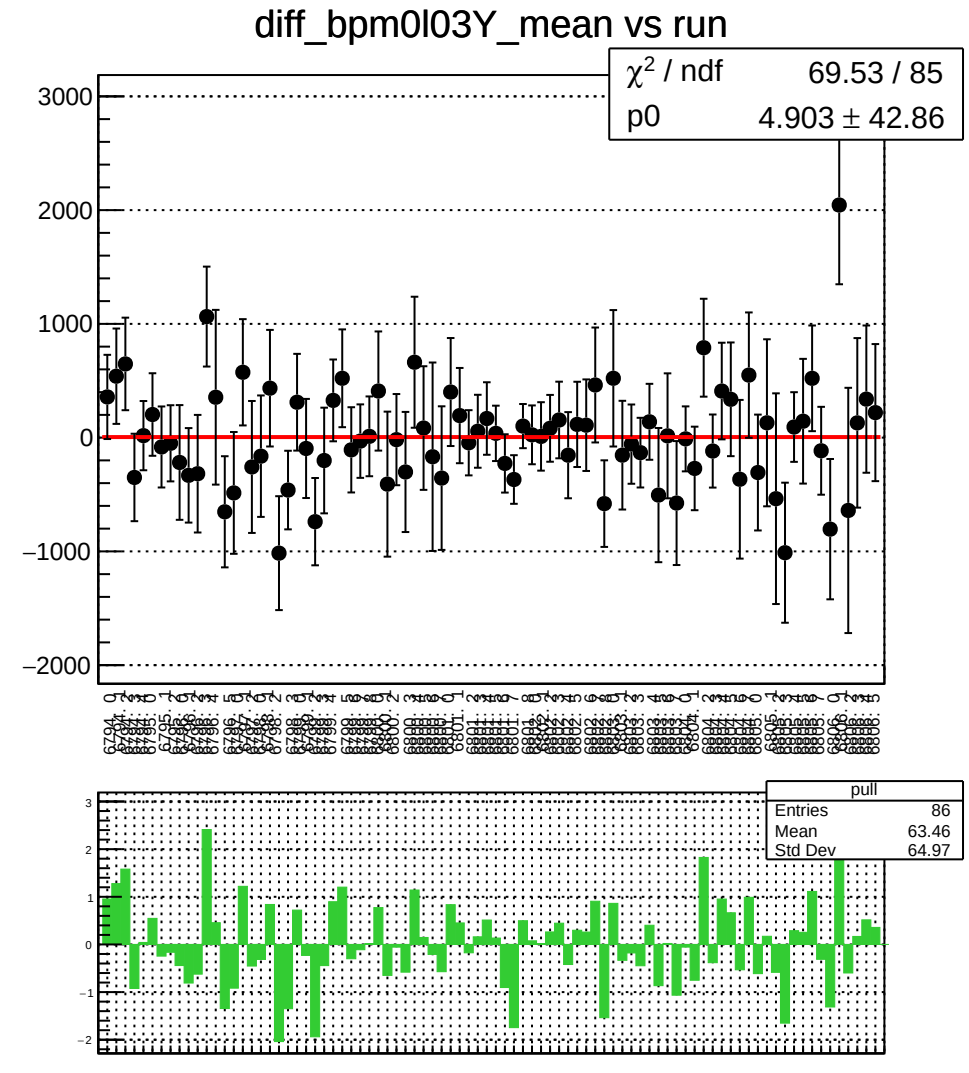

pull1D
Entries 86
Mean −0.01045
Std Dev 1.058

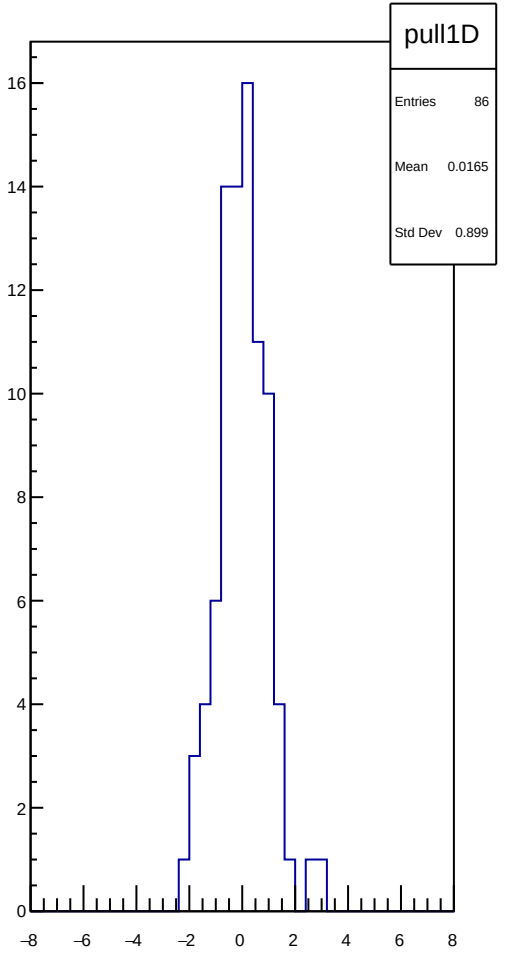

diff_bpm0l02Y_rms vs run
χ² / ndf 4071 / 85
p0 2075 ± 1.602
2300
2200
2100
2000
1900
1800

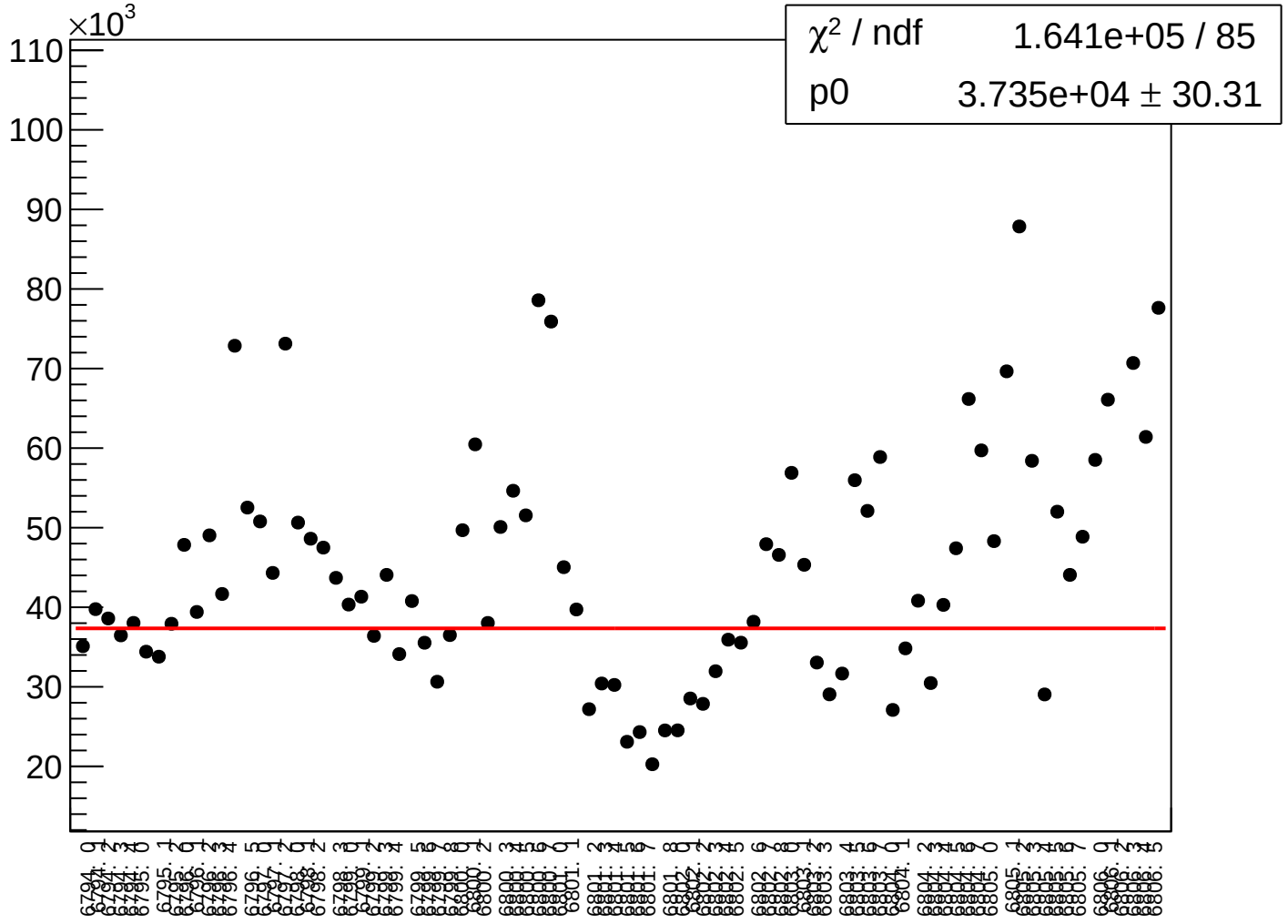

diff_bpm0l03X_mean vs run
χ² / ndf 67.13 / 85
p0 11.87 ± 42.95
3000
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 81.83
Std Dev 74.72
3
2
1
0
−1
−2

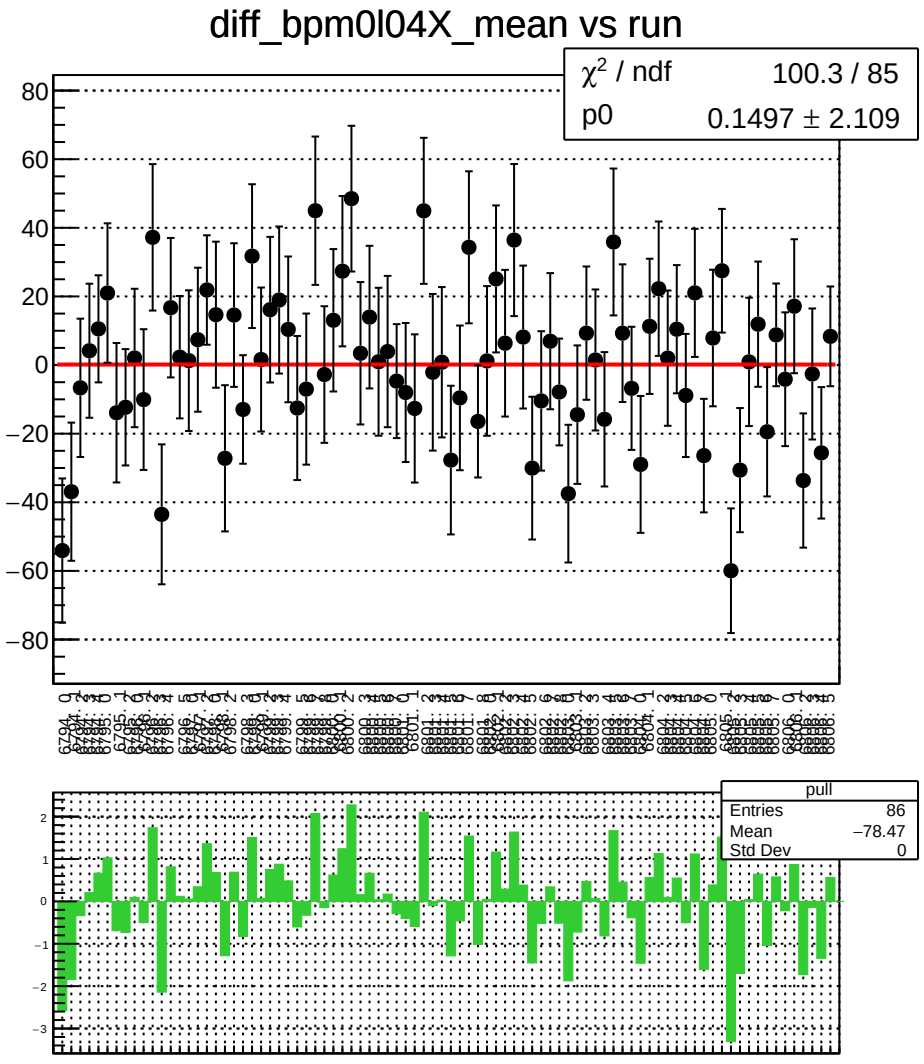

pull1D
Entries 86
Mean 0.007771
Std Dev 0.8835
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

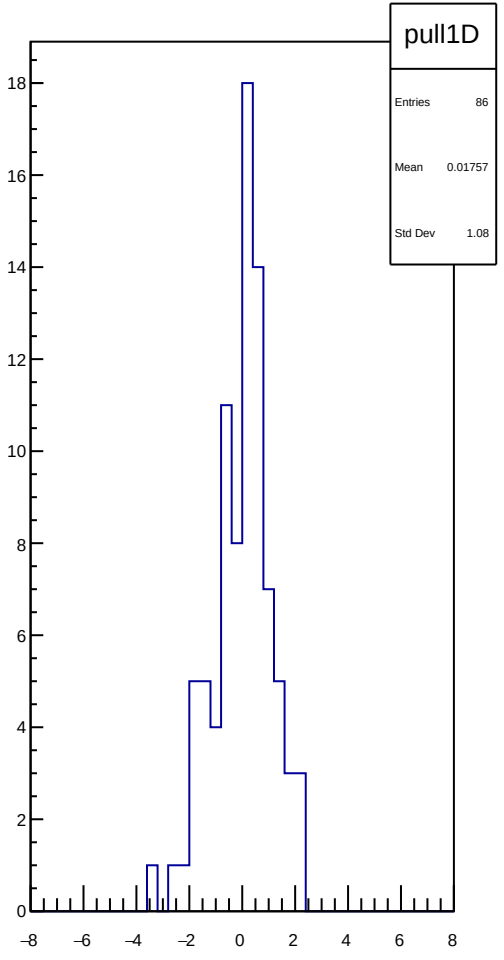

diff_bpm0l03X_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
20
χ² / ndf 1.628e+05 / 85
p0 3.744e+04 ± 30.37

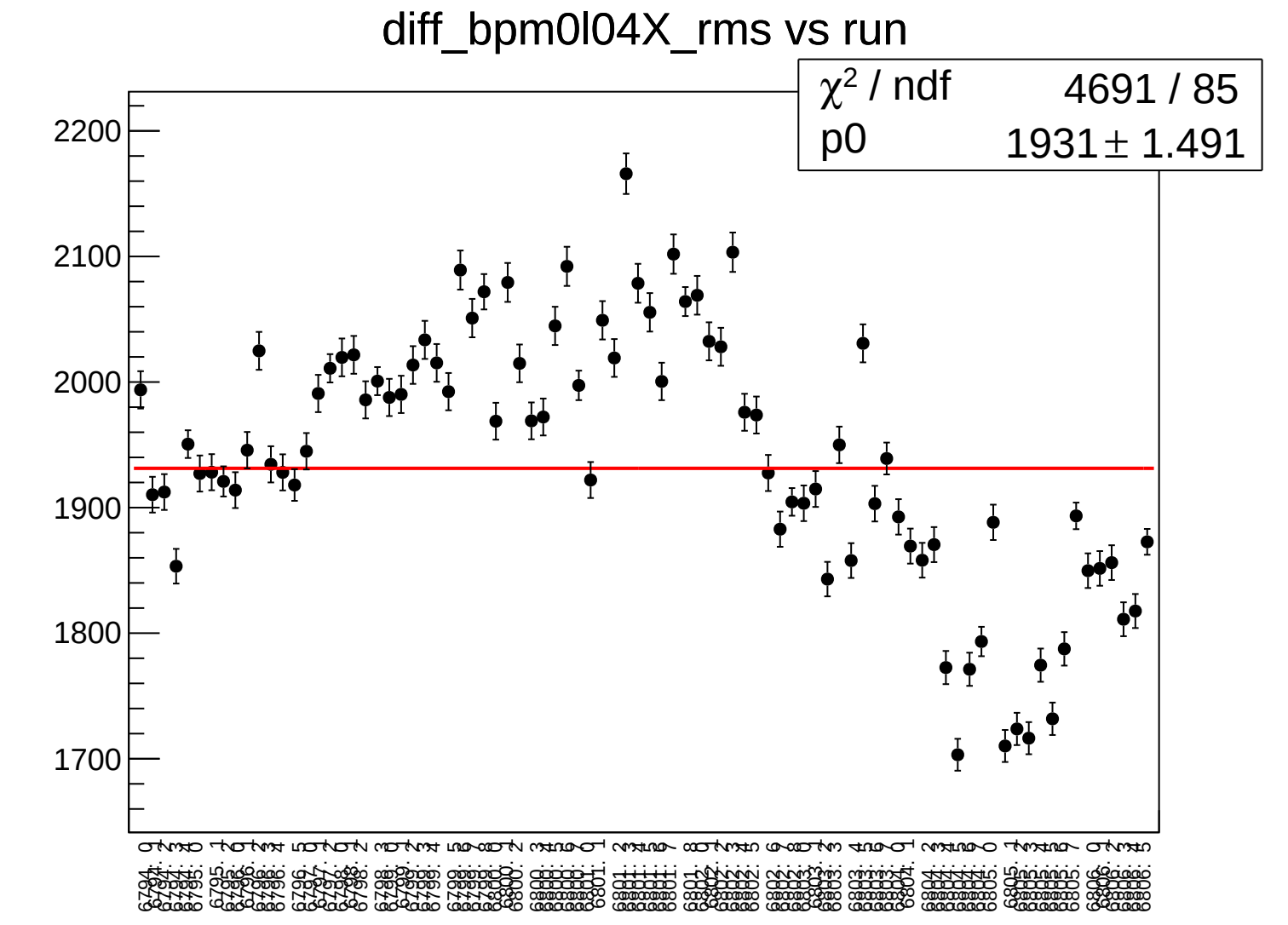

diff_bpm0l03Y_mean vs run
χ² / ndf 69.53 / 85
p0 4.903 ± 42.86
pull
Entries 86
Mean 63.46
Std Dev 64.97

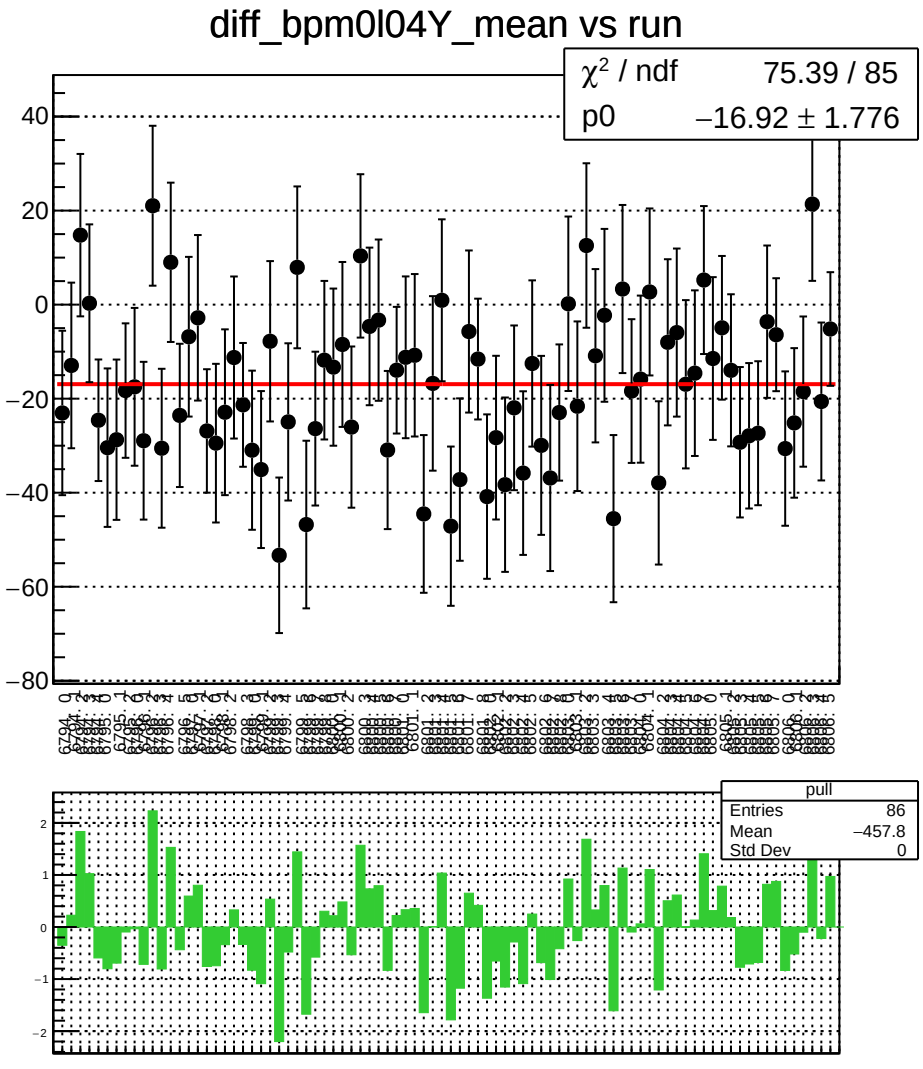

pull1D
Entries 86
Mean 0.0165
Std Dev 0.899

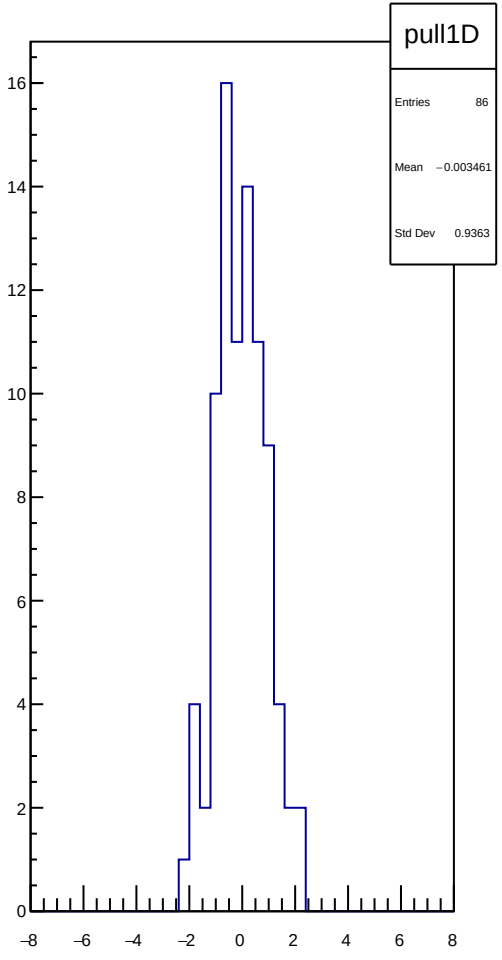

diff_bpm0l03Y_rms vs run
×10^3
110
100
90
80
70
60
50
40
30
20
χ² / ndf 1.641e+05 / 85
p0 3.735e+04 ± 30.31

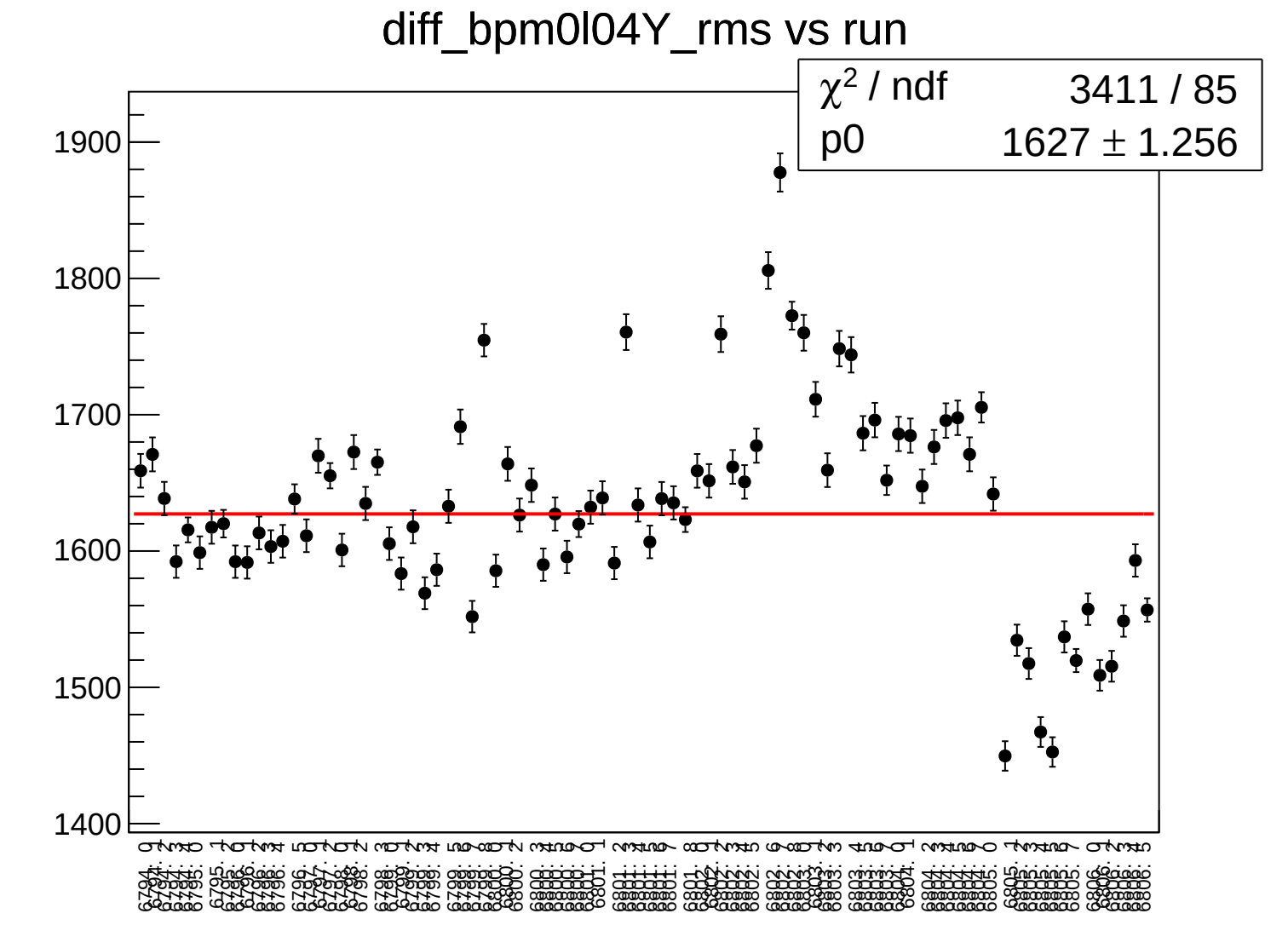

diff_bpm0l04X_mean vs run
χ² / ndf 100.3 / 85
p0 0.1497 ± 2.109
pull
Entries 86
Mean −78.47
Std Dev 0

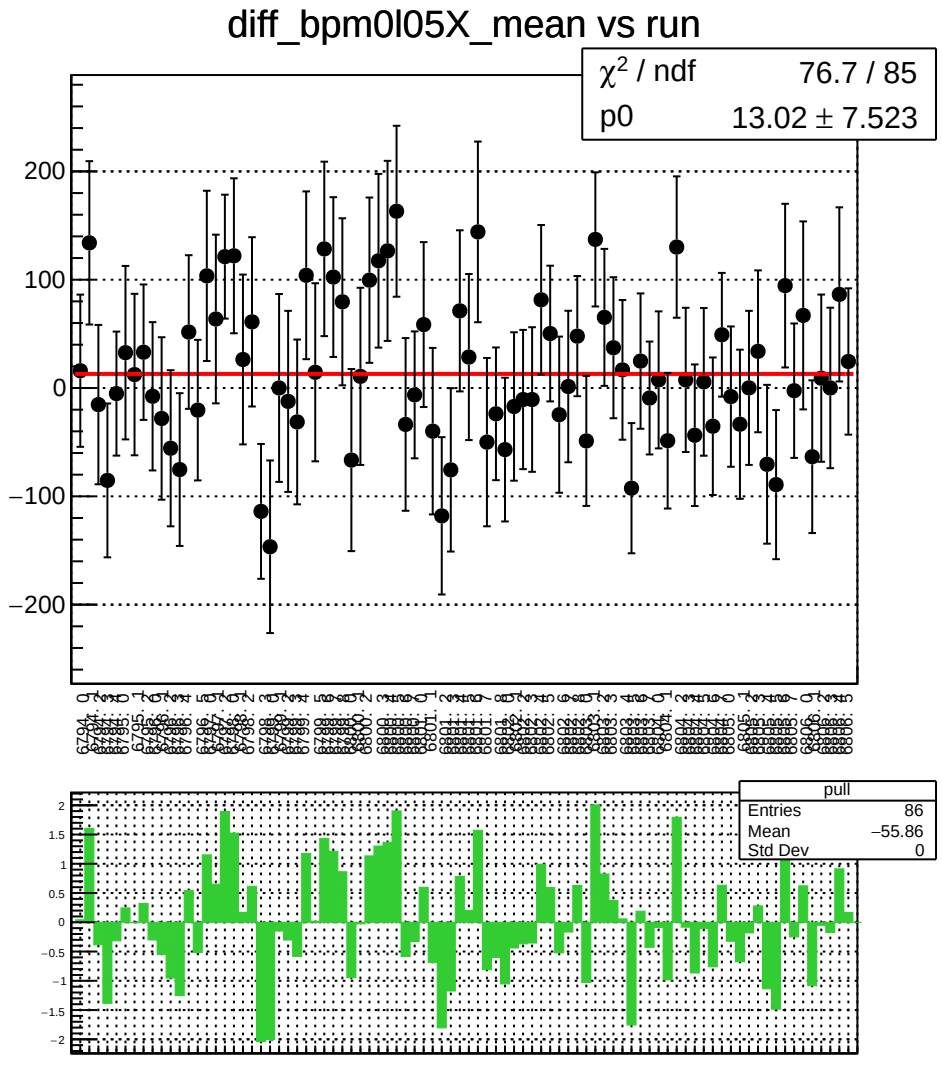

pull1D
Entries 86
Mean 0.01757
Std Dev 1.08

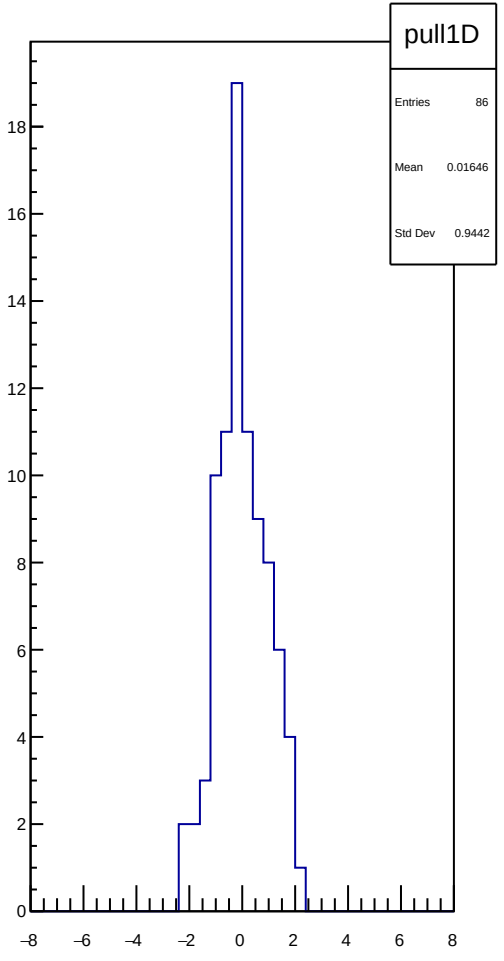

diff_bpm0l04X_rms vs run
χ² / ndf 4691 / 85
p0 1931 ± 1.491
2200
2100
2000
1900
1800
1700

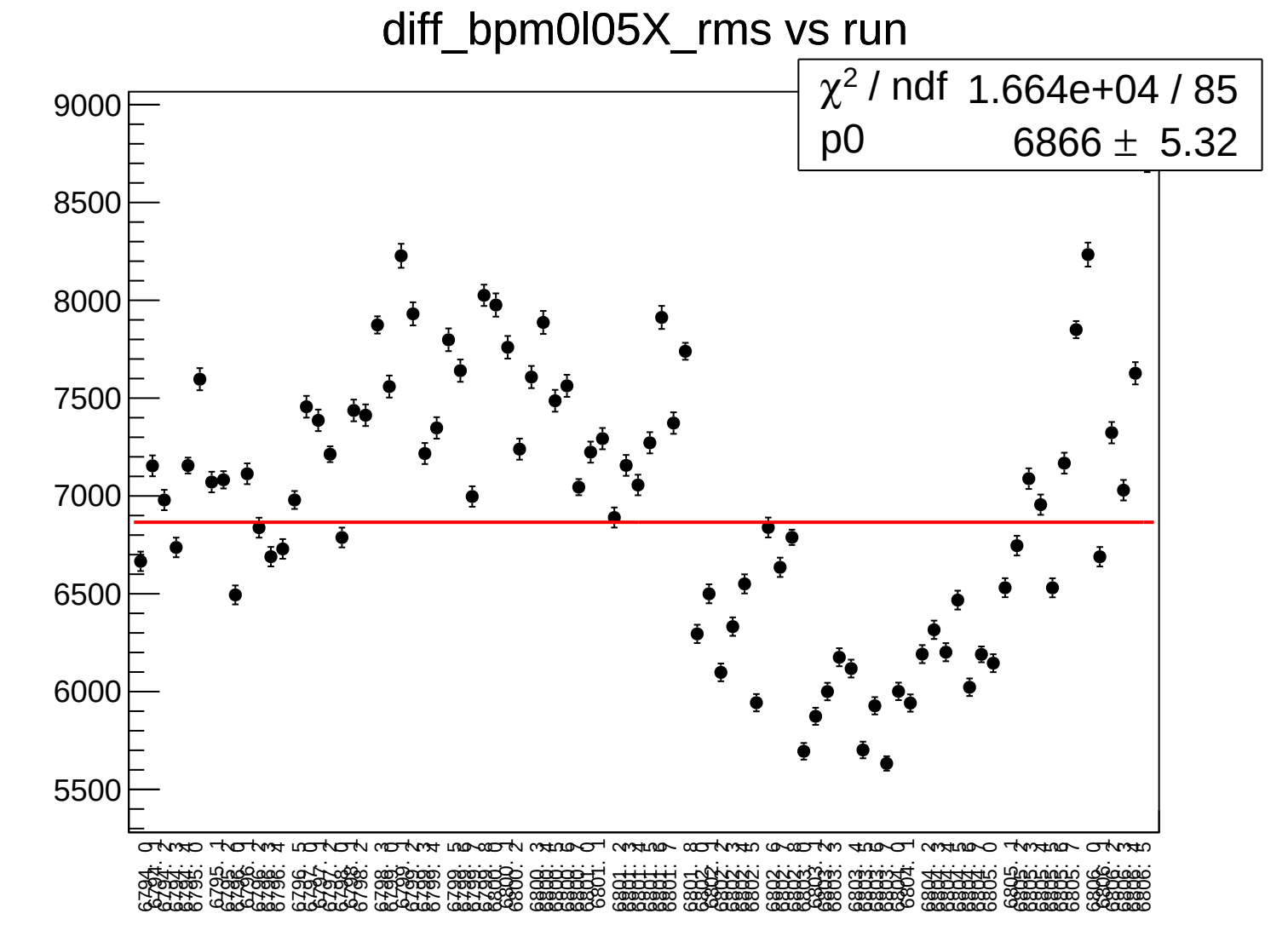

diff_bpm0l04Y_mean vs run
χ² / ndf 75.39 / 85
p0 −16.92 ± 1.776
pull
Entries 86
Mean −457.8
Std Dev 0

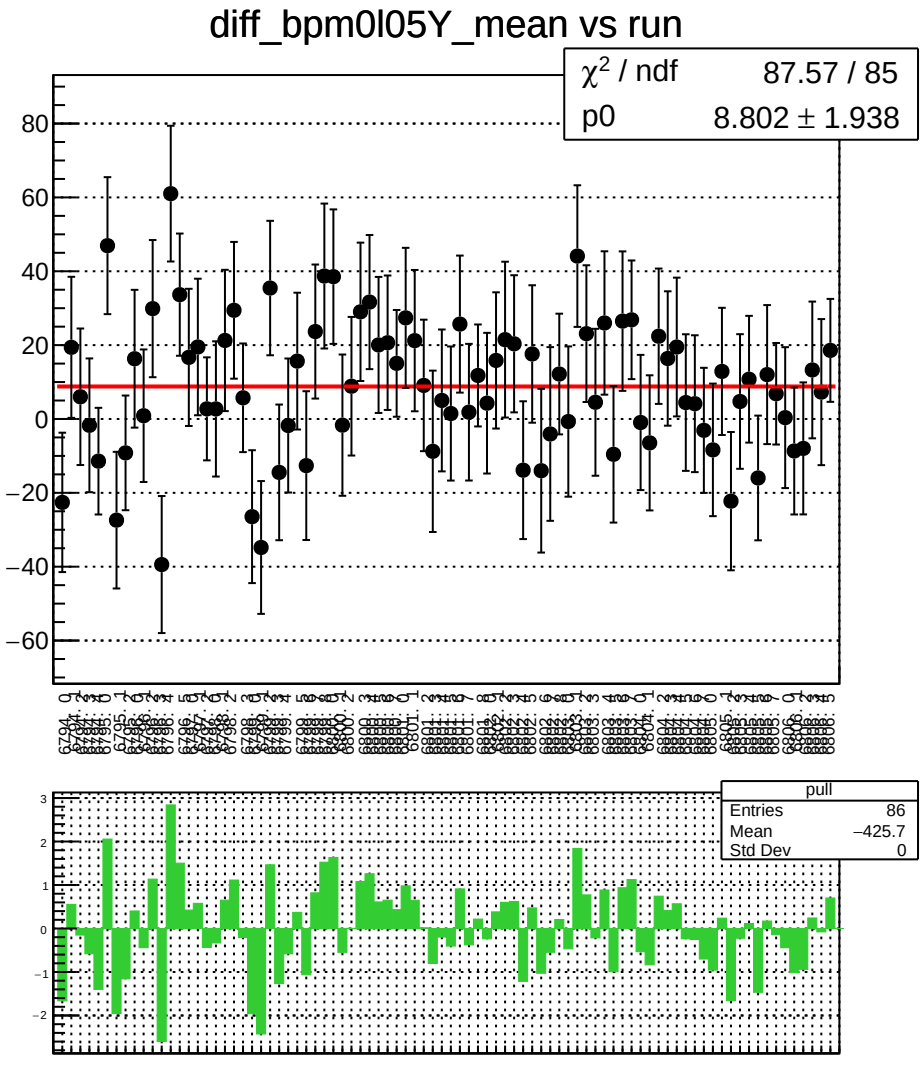

pull1D
Entries 86
Mean −0.003461
Std Dev 0.9363

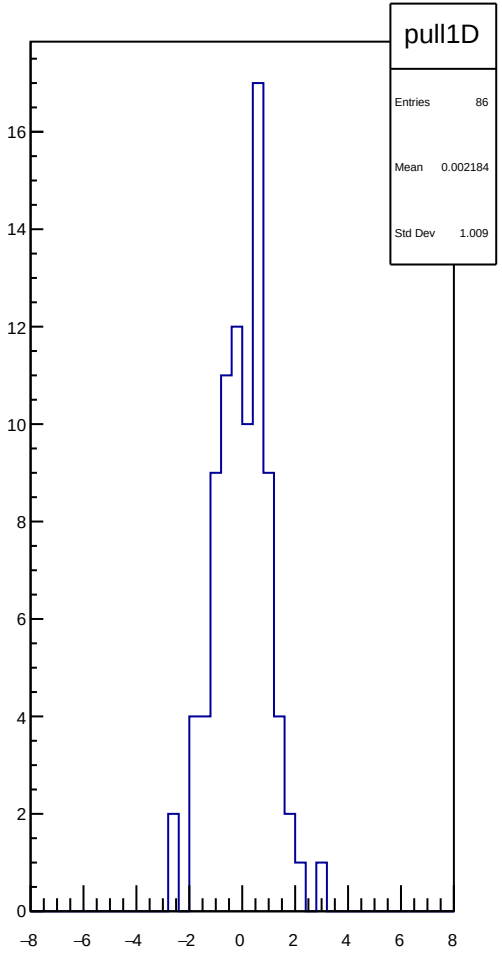

diff_bpm0l04Y_rms vs run
χ² / ndf 3411 / 85
p0 1627 ± 1.256
1900
1800
1700
1600
1500
1400

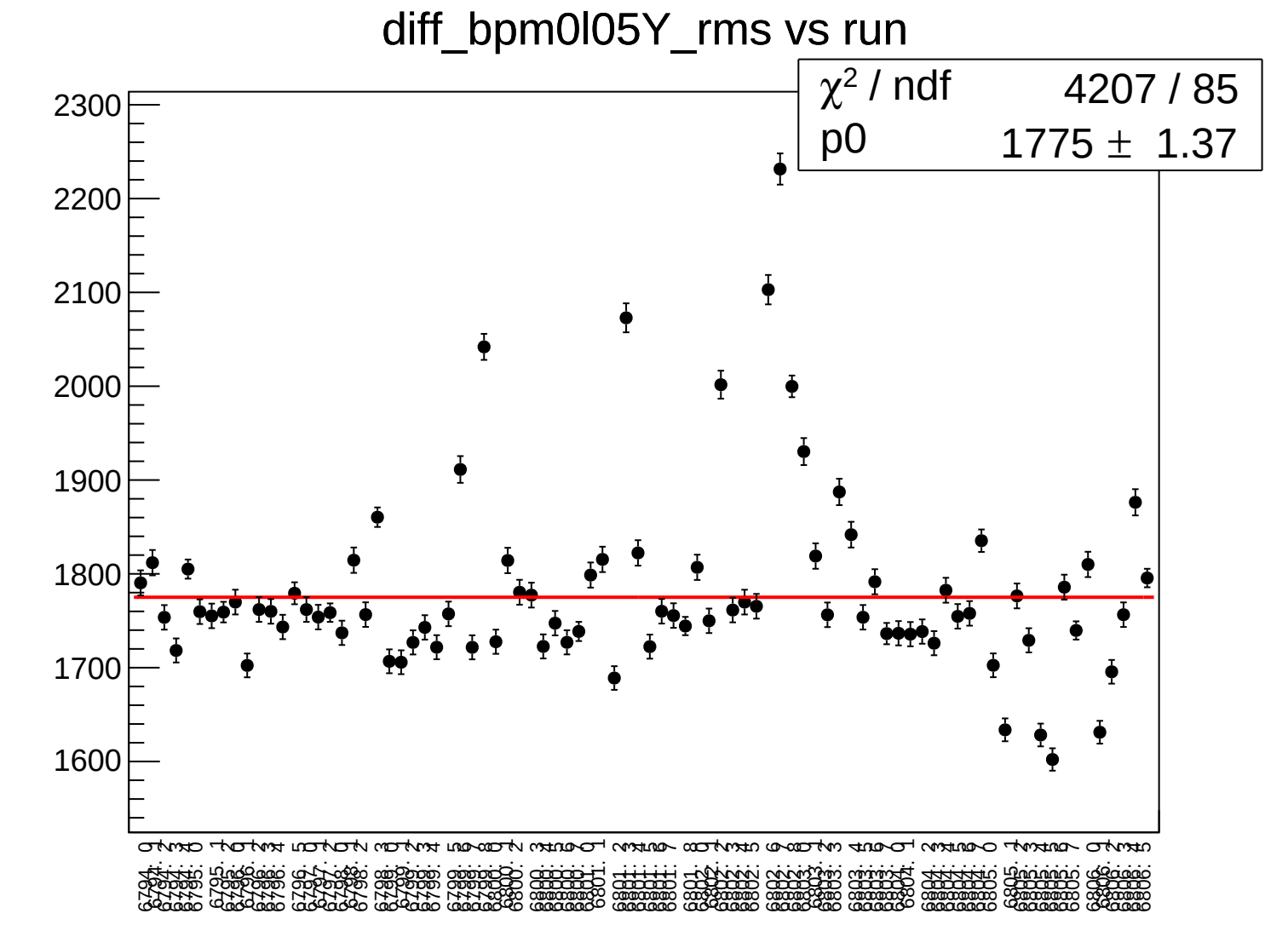

diff_bpm0l05X_mean vs run
χ² / ndf 76.7 / 85
p0 13.02 ± 7.523
200
100
0
−100
−200
pull
Entries 86
Mean −55.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

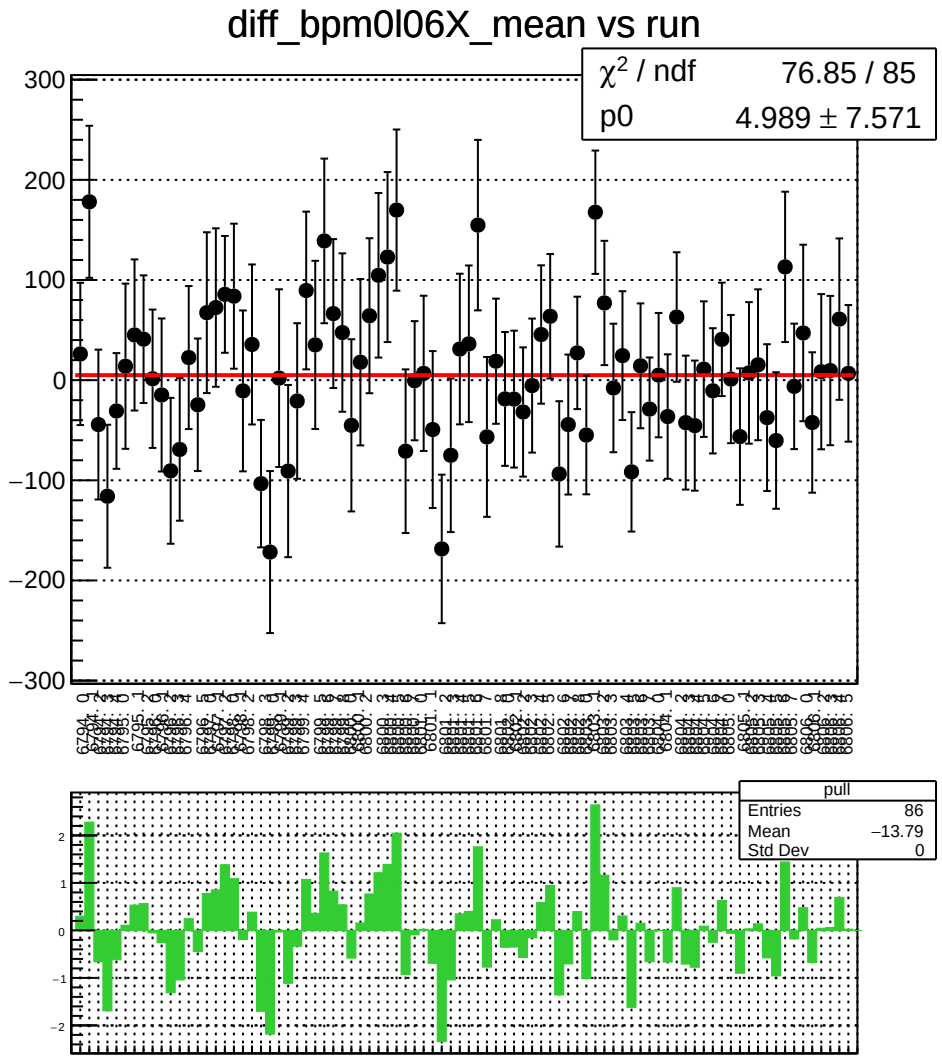

pull1D
Entries 86
Mean 0.01646
Std Dev 0.9442
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

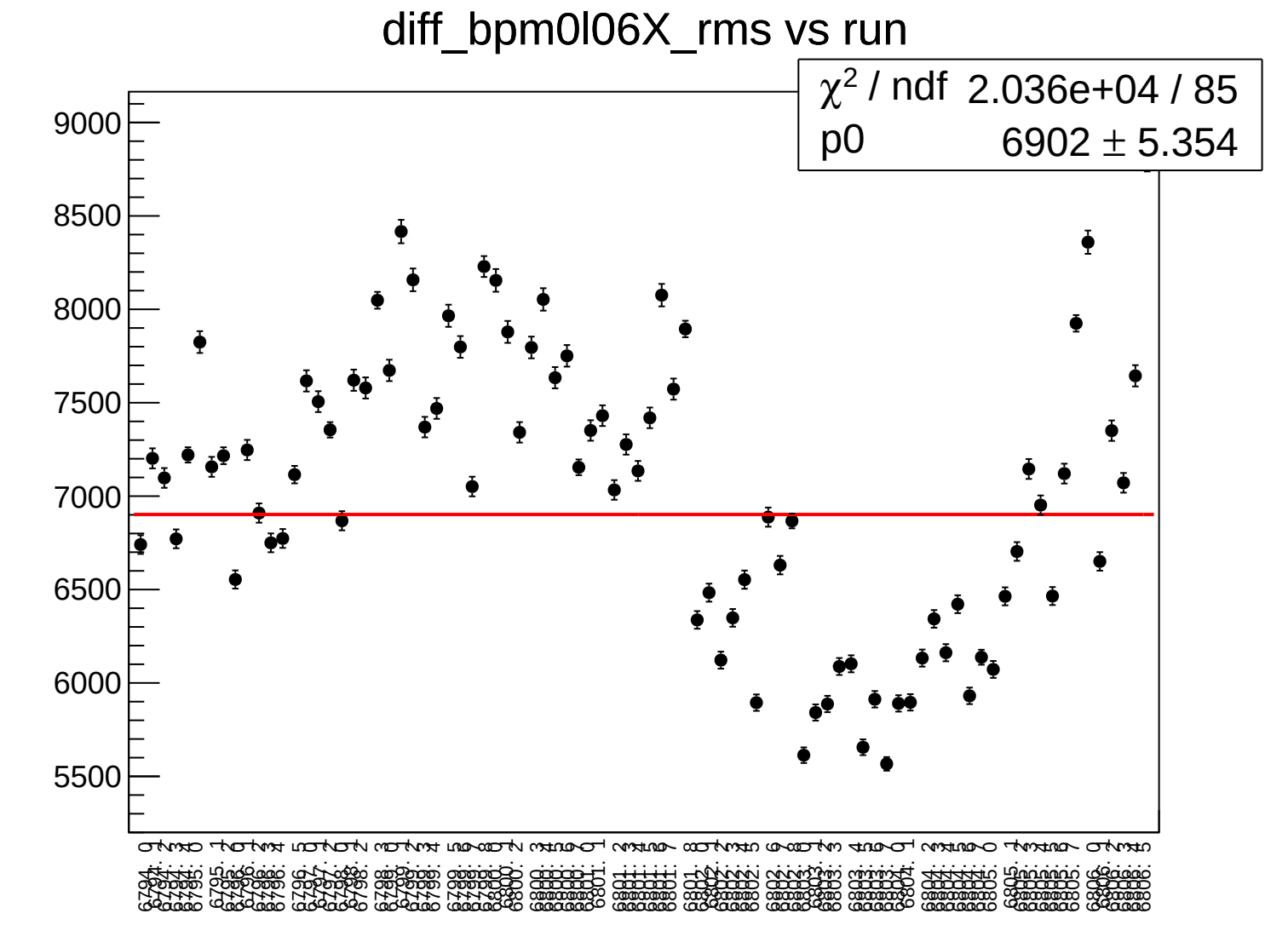

diff_bpm0l05X_rms vs run
χ² / ndf 1.664e+04 / 85
p0 6866 ± 5.32
9000
8500
8000
7500
7000
6500
6000
5500

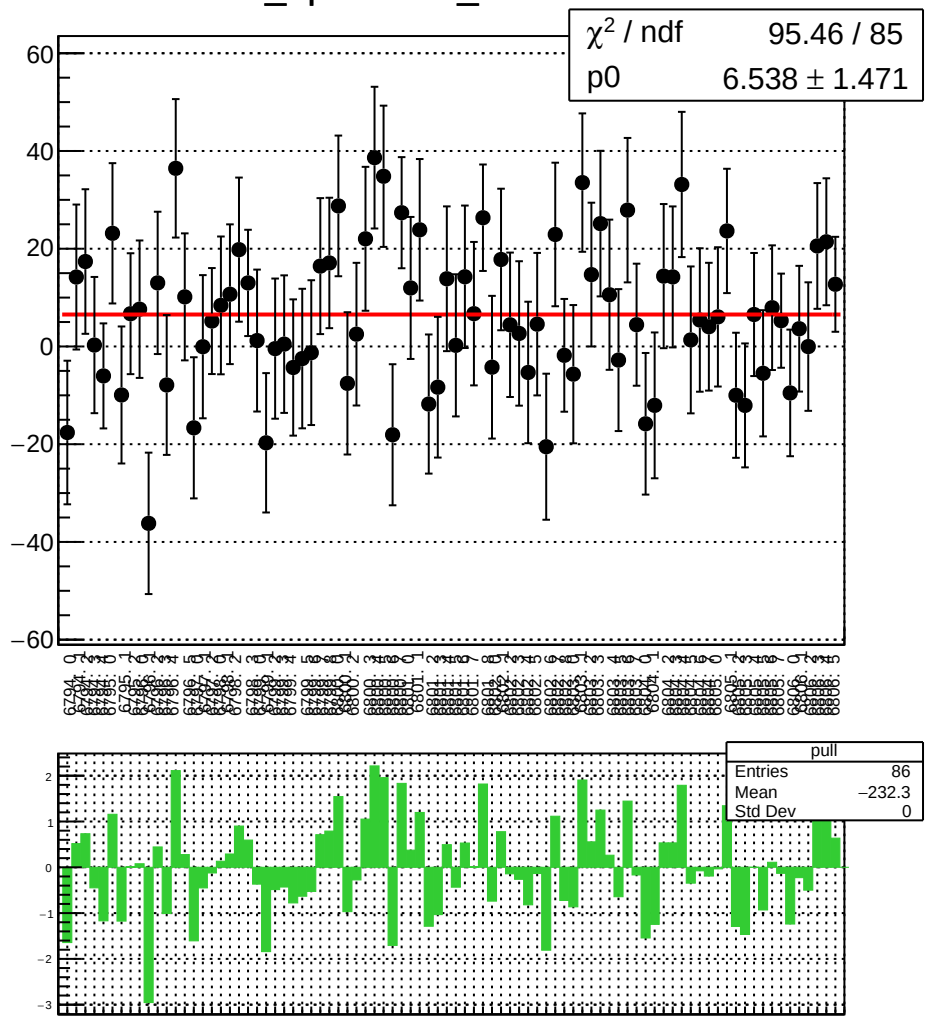

diff_bpm0l05Y_mean vs run
χ² / ndf 87.57 / 85
p0 8.802 ± 1.938
pull
Entries 86
Mean −425.7
Std Dev 0

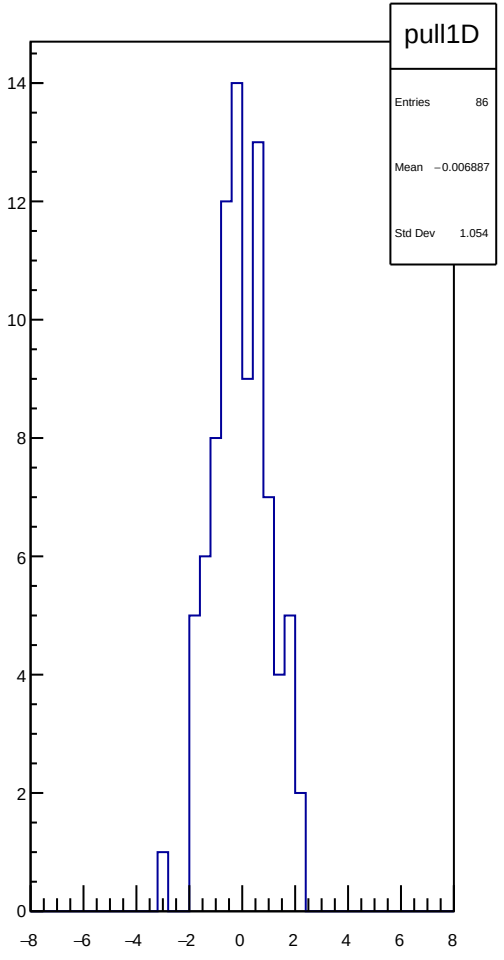

pull1D
Entries 86
Mean 0.002184
Std Dev 1.009

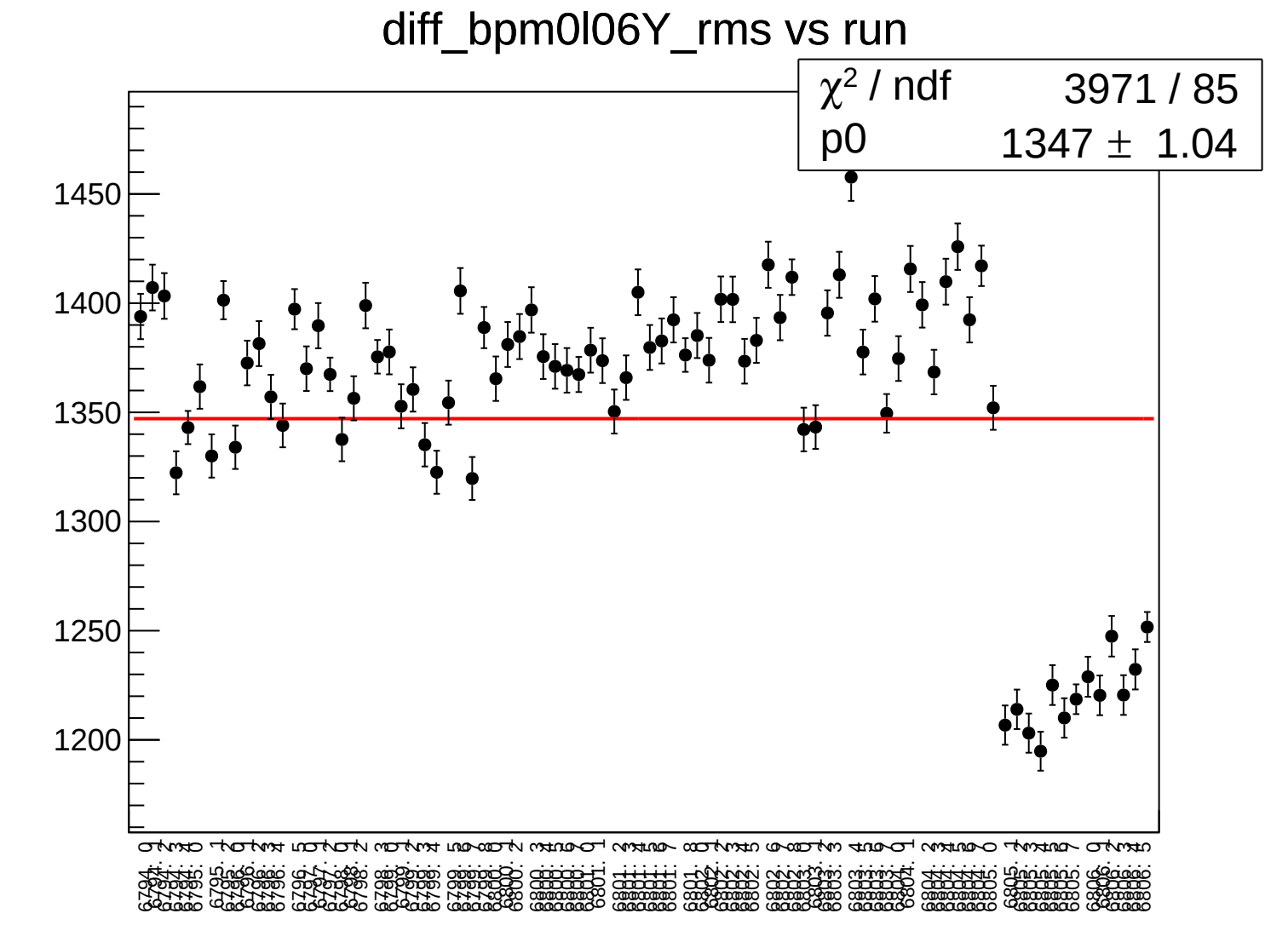

diff_bpm0l05Y_rms vs run
χ² / ndf 4207 / 85
p0 1775 ± 1.37
2300
2200
2100
2000
1900
1800
1700
1600

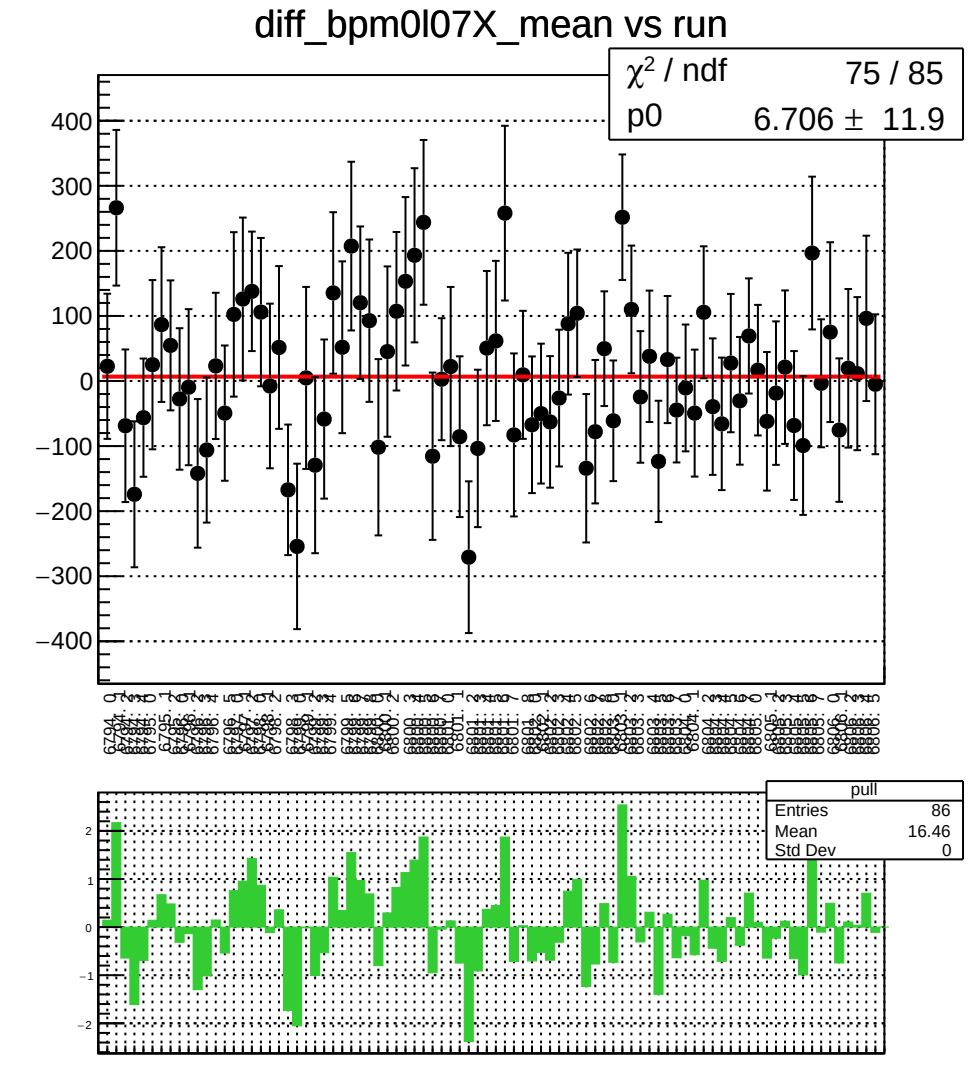

diff_bpm0l06X_mean vs run
χ² / ndf 76.85 / 85
p0 4.989 ± 7.571
pull
Entries 86
Mean −13.79
Std Dev 0
pull1D
Entries 86
Mean 0.01342
Std Dev 0.9452

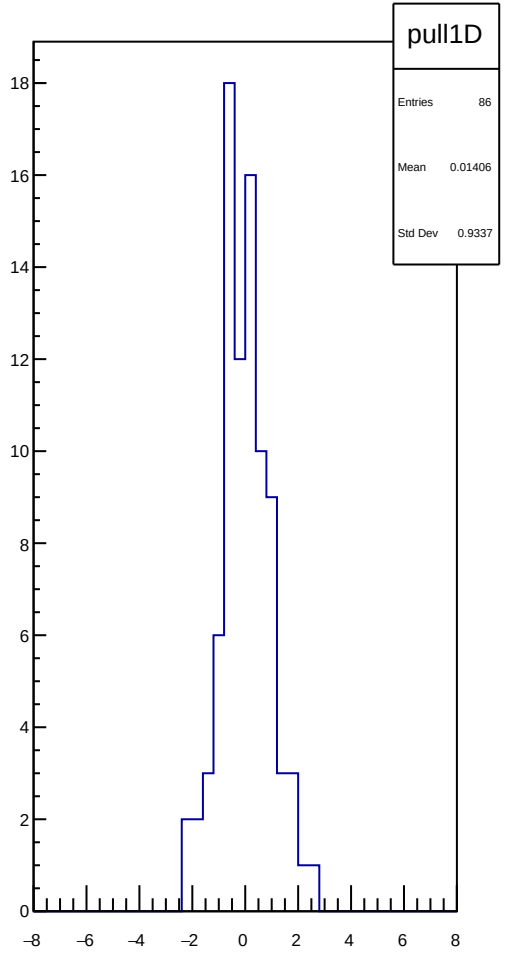

diff_bpm0l06X_rms vs run
χ² / ndf 2.036e+04 / 85
p0 6902 ± 5.354
9000
8500
8000
7500
7000
6500
6000
5500

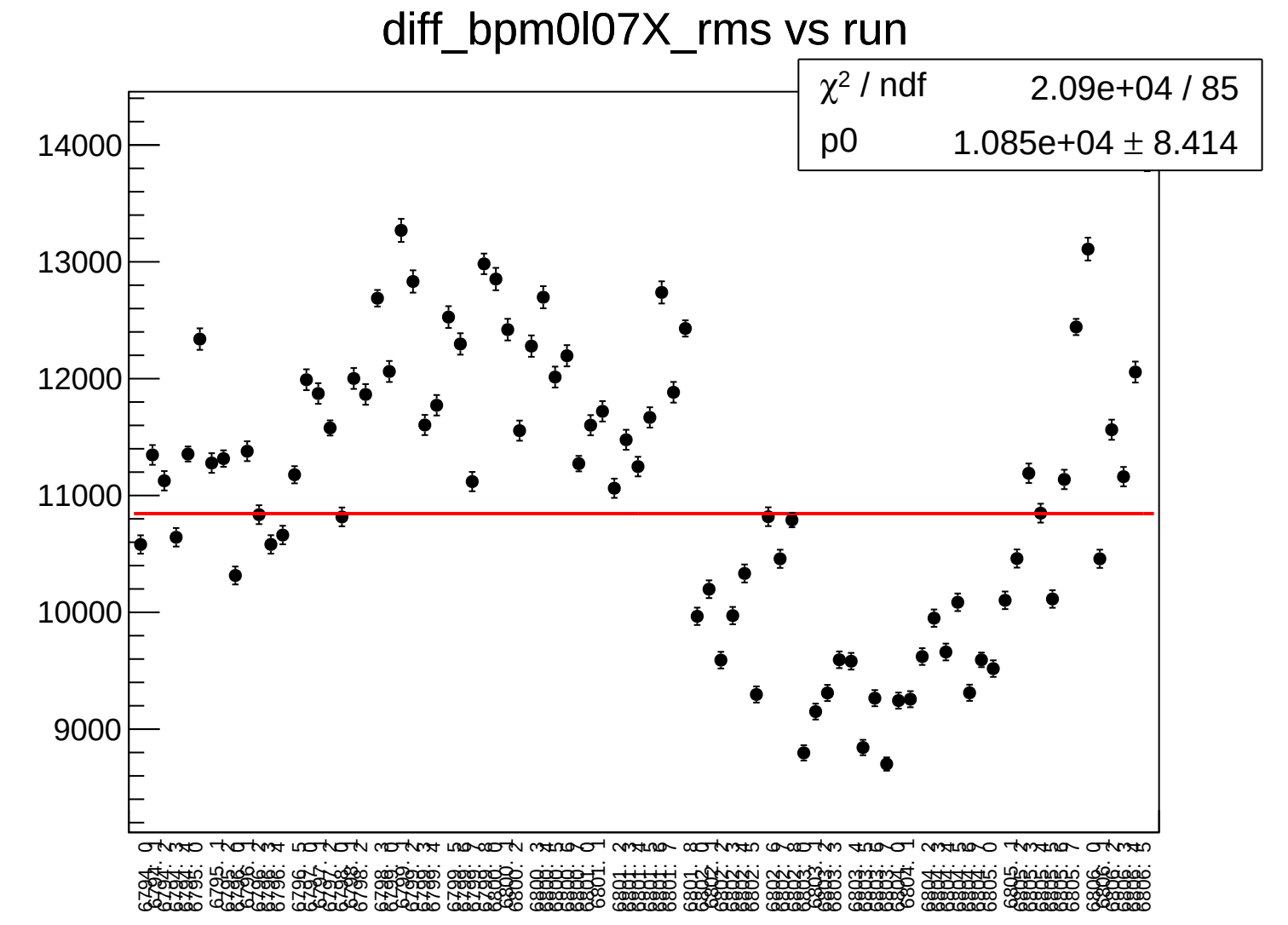

diff_bpm0l06Y_mean vs run
χ² / ndf 95.46 / 85
p0 6.538 ± 1.471
pull
Entries 86
Mean −232.3
Std Dev 0

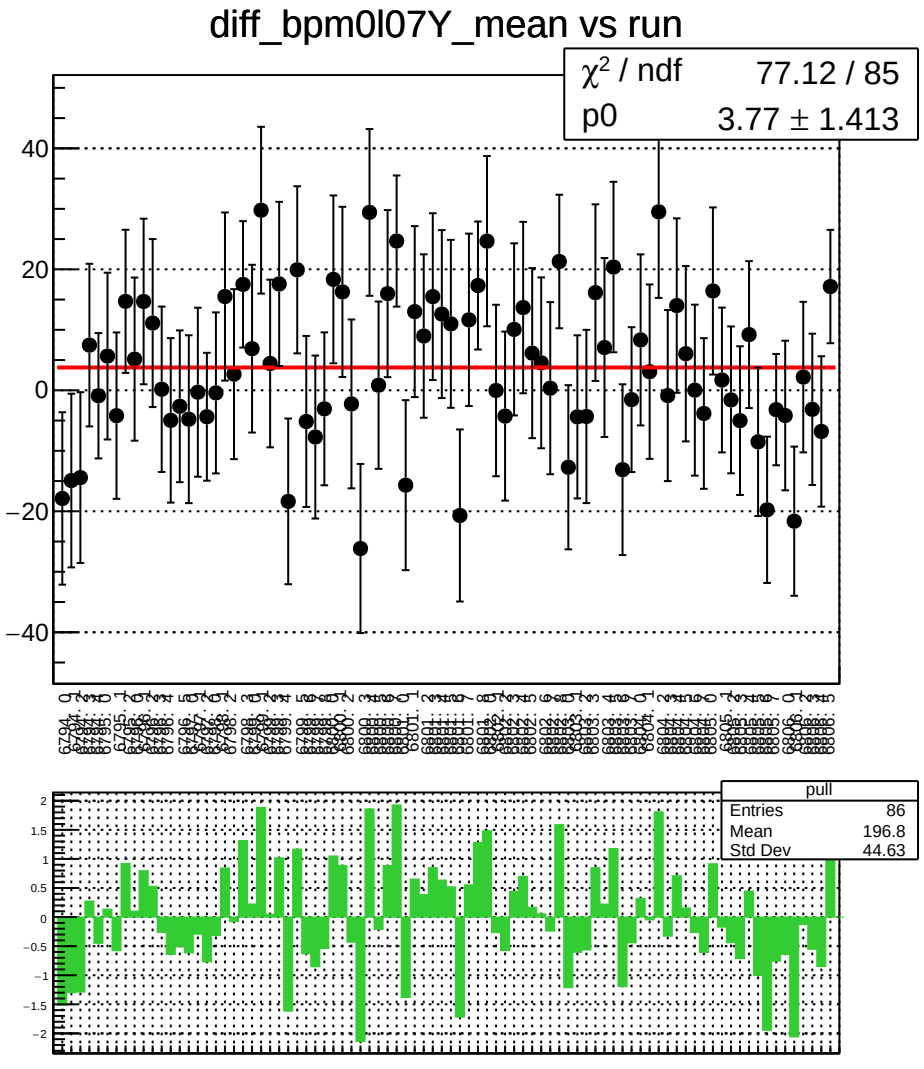

pull1D
Entries 86
Mean −0.006887
Std Dev 1.054

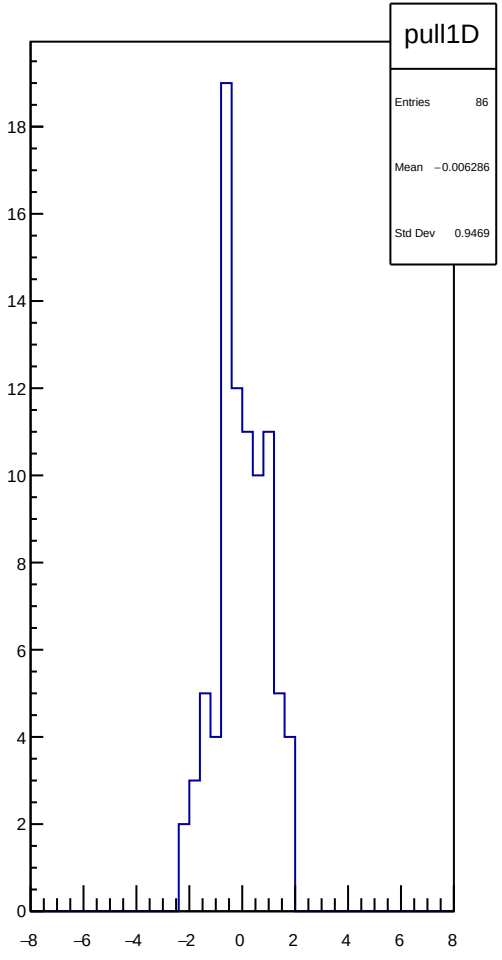

diff_bpm0l06Y_rms vs run
χ² / ndf 3971 / 85
p0 1347 ± 1.04
1450
1400
1350
1300
1250
1200

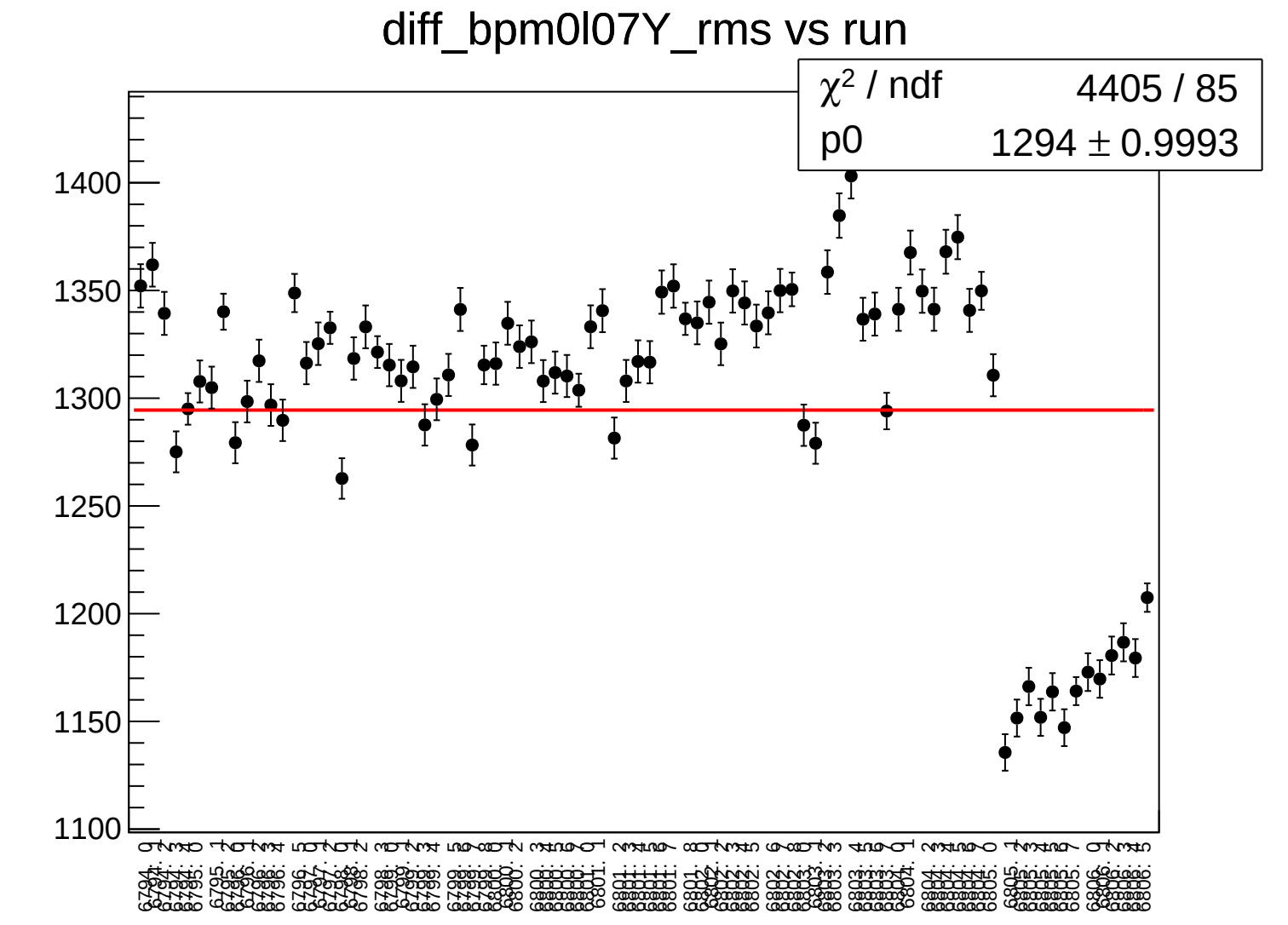

diff_bpm0l07X_mean vs run
χ² / ndf 75 / 85
p0 6.706 ± 11.9
pull
Entries 86
Mean 16.46
Std Dev 0

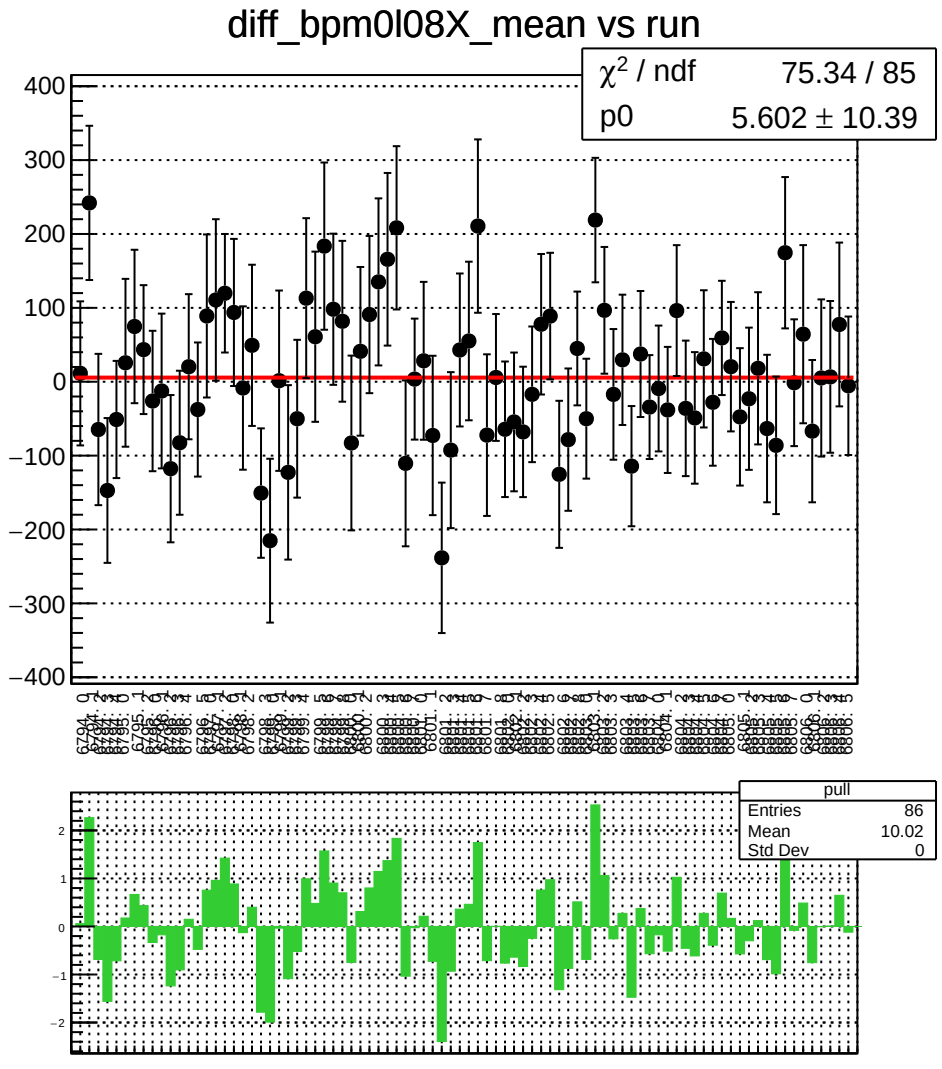

pull1D
Entries 86
Mean 0.01406
Std Dev 0.9337

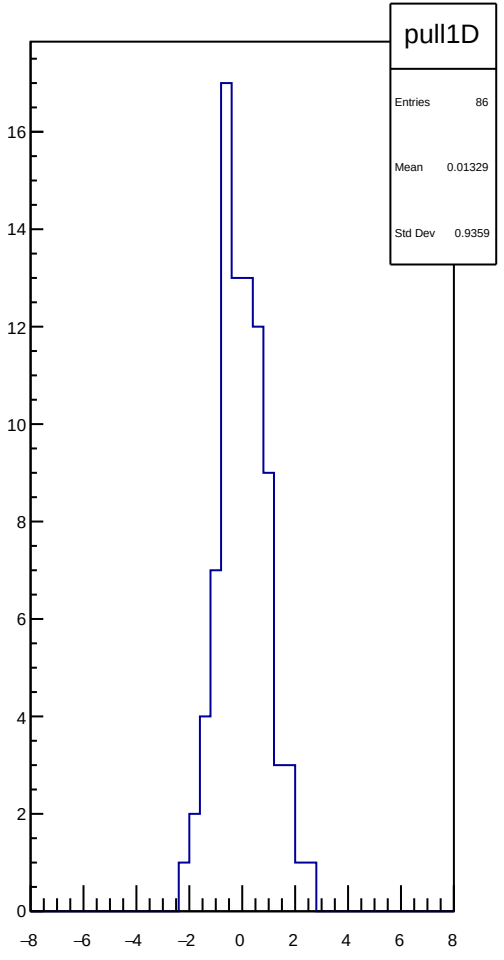

diff_bpm0l07X_rms vs run
χ² / ndf 2.09e+04 / 85
p0 1.085e+04 ± 8.414
14000
13000
12000
11000
10000
9000

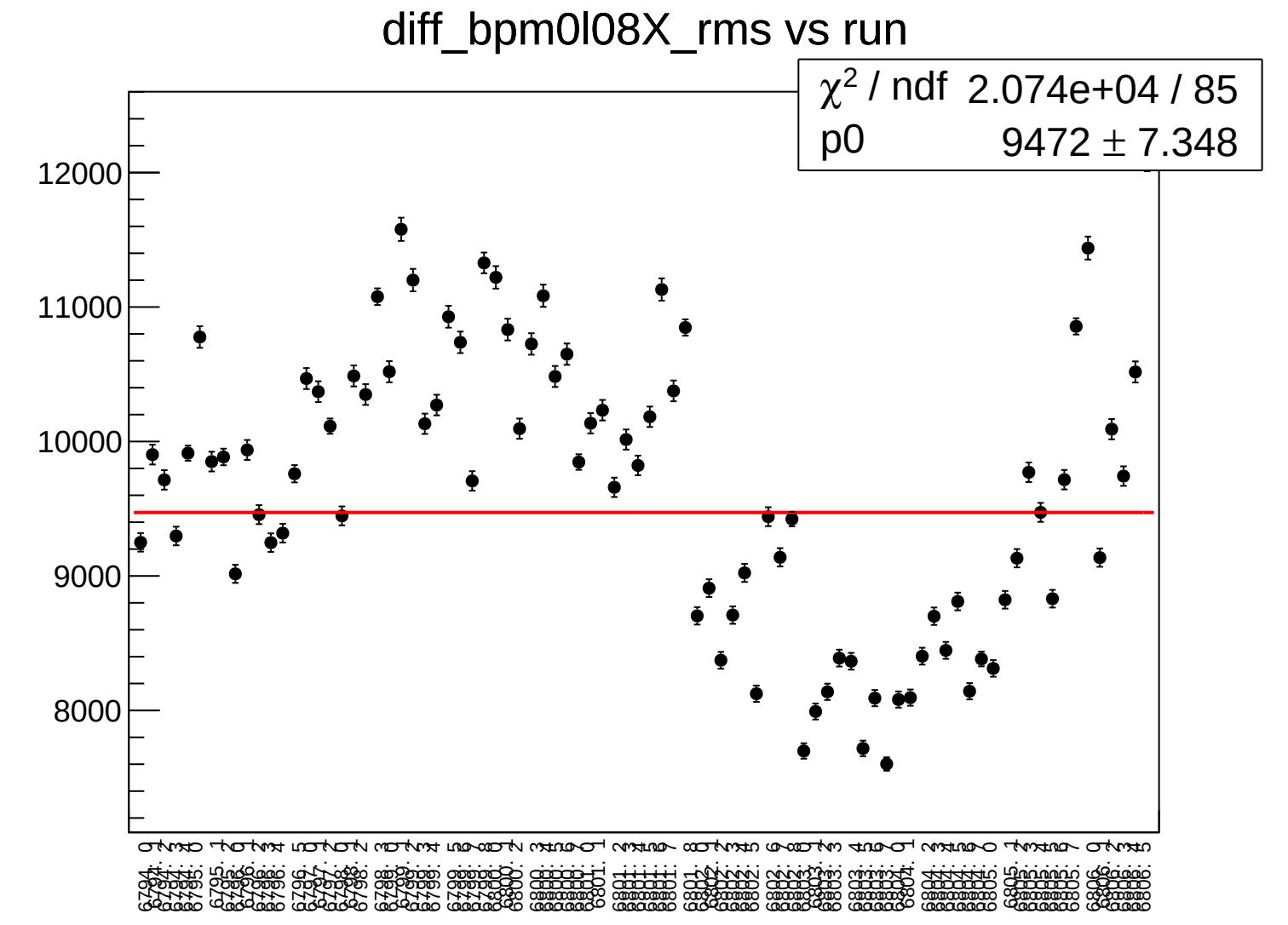

diff_bpm0l07Y_mean vs run
χ² / ndf 77.12 / 85
p0 3.77 ± 1.413
pull
Entries 86
Mean 196.8
Std Dev 44.63

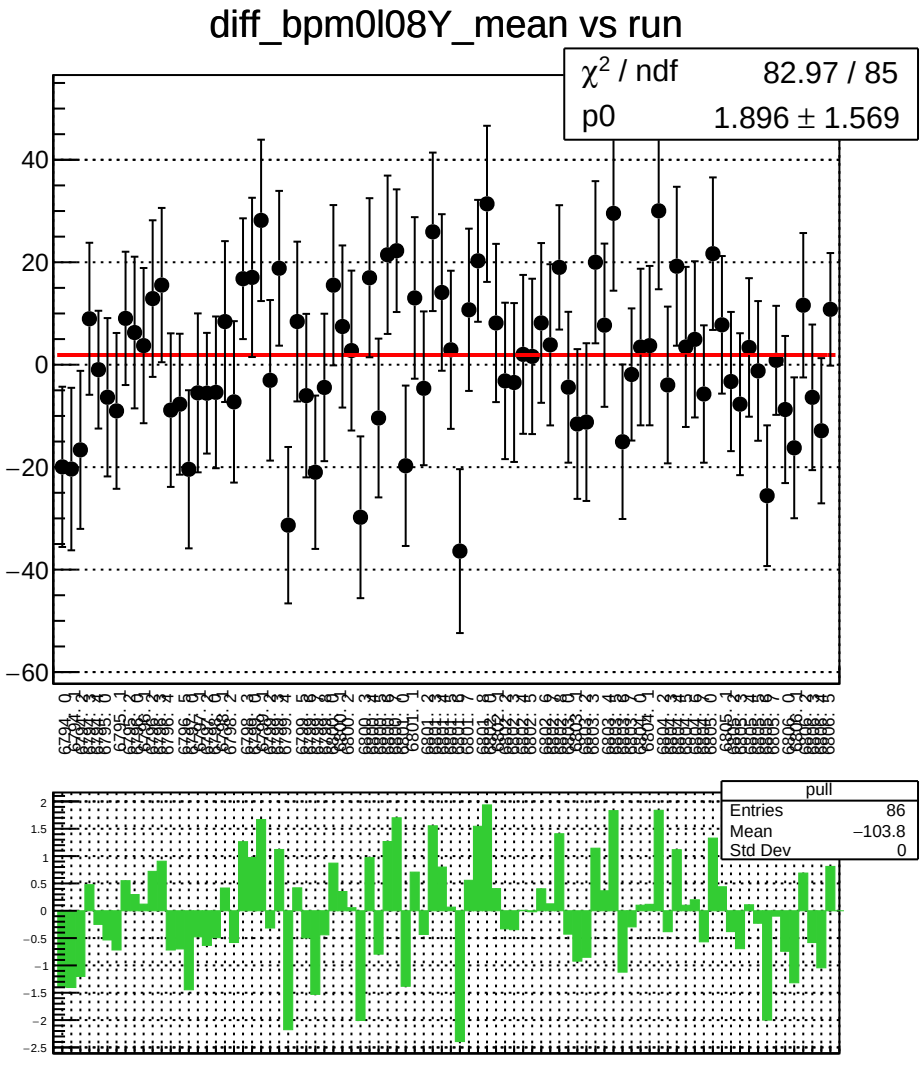

pull1D
Entries 86
Mean −0.006286
Std Dev 0.9469

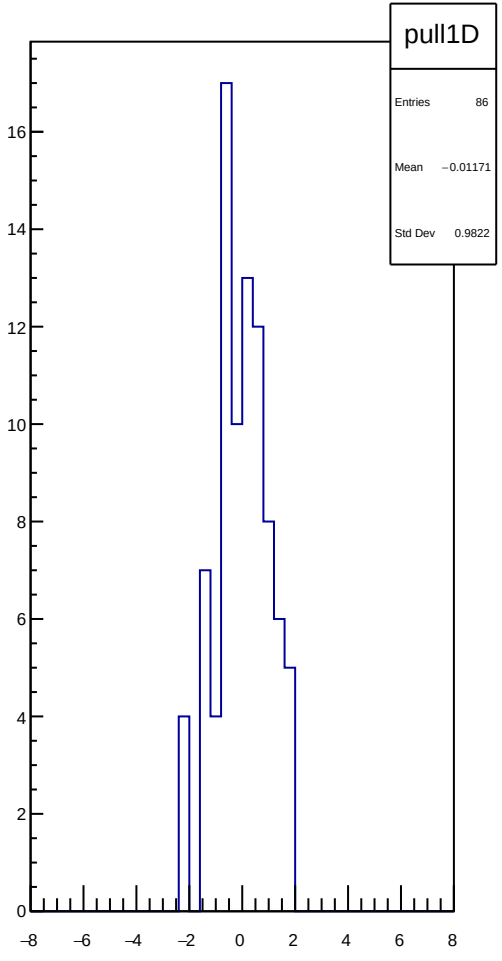

diff_bpm0l07Y_rms vs run
χ² / ndf 4405 / 85
p0 1294 ± 0.9993
1400
1350
1300
1250
1200
1150
1100

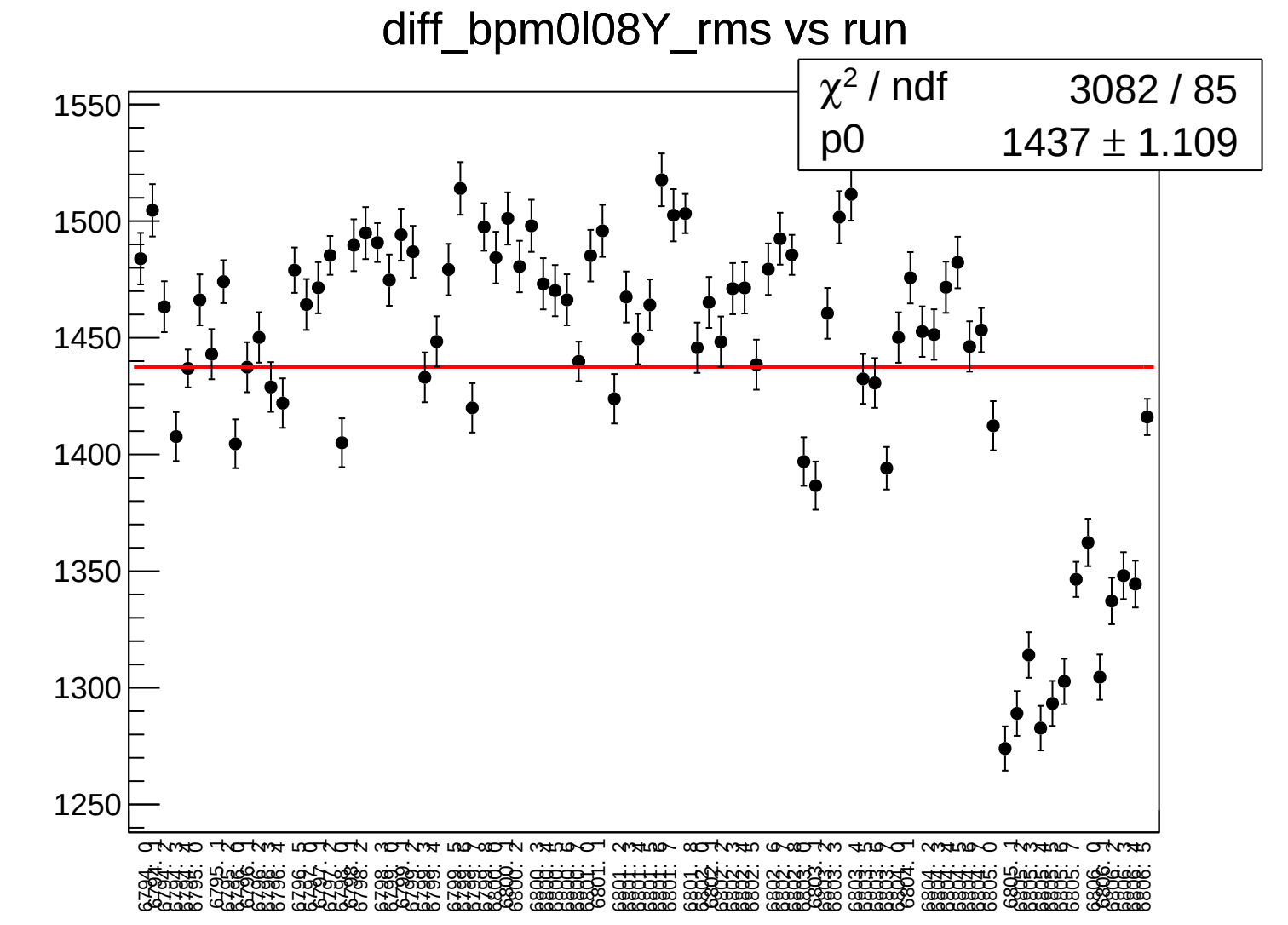

diff_bpm0l08X_mean vs run
χ^2 / ndf 75.34 / 85
p0 5.602 ± 10.39
pull
Entries 86
Mean 10.02
Std Dev 0

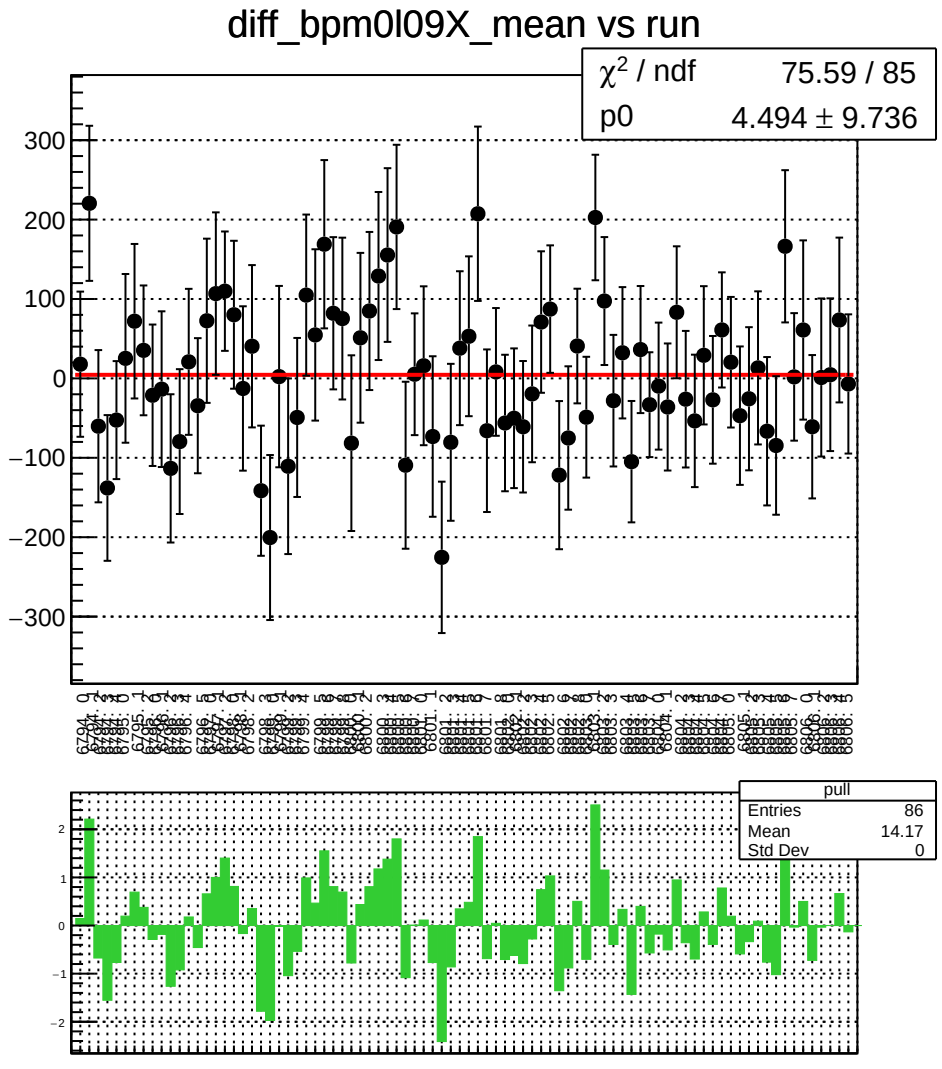

pull1D
Entries 86
Mean 0.01329
Std Dev 0.9359

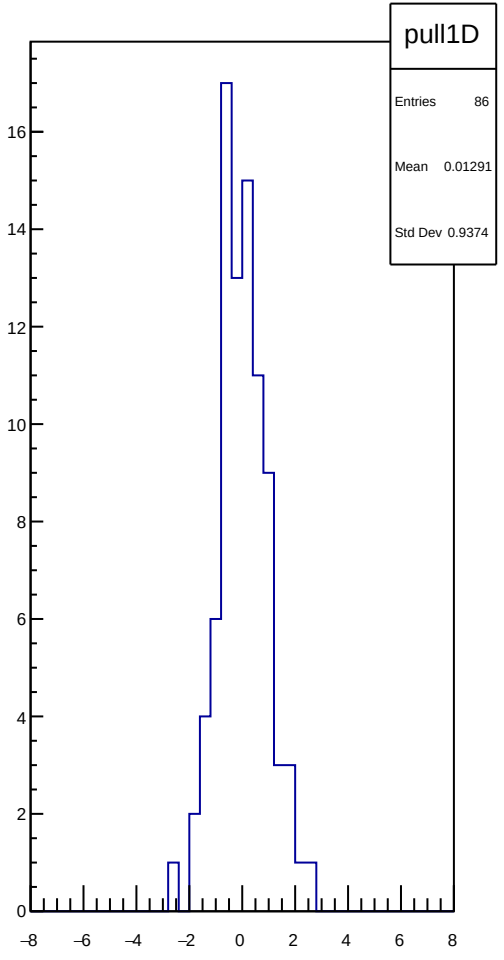

diff_bpm0l08X_rms vs run
χ² / ndf 2.074e+04 / 85
p0 9472 ± 7.348
12000
11000
10000
9000
8000

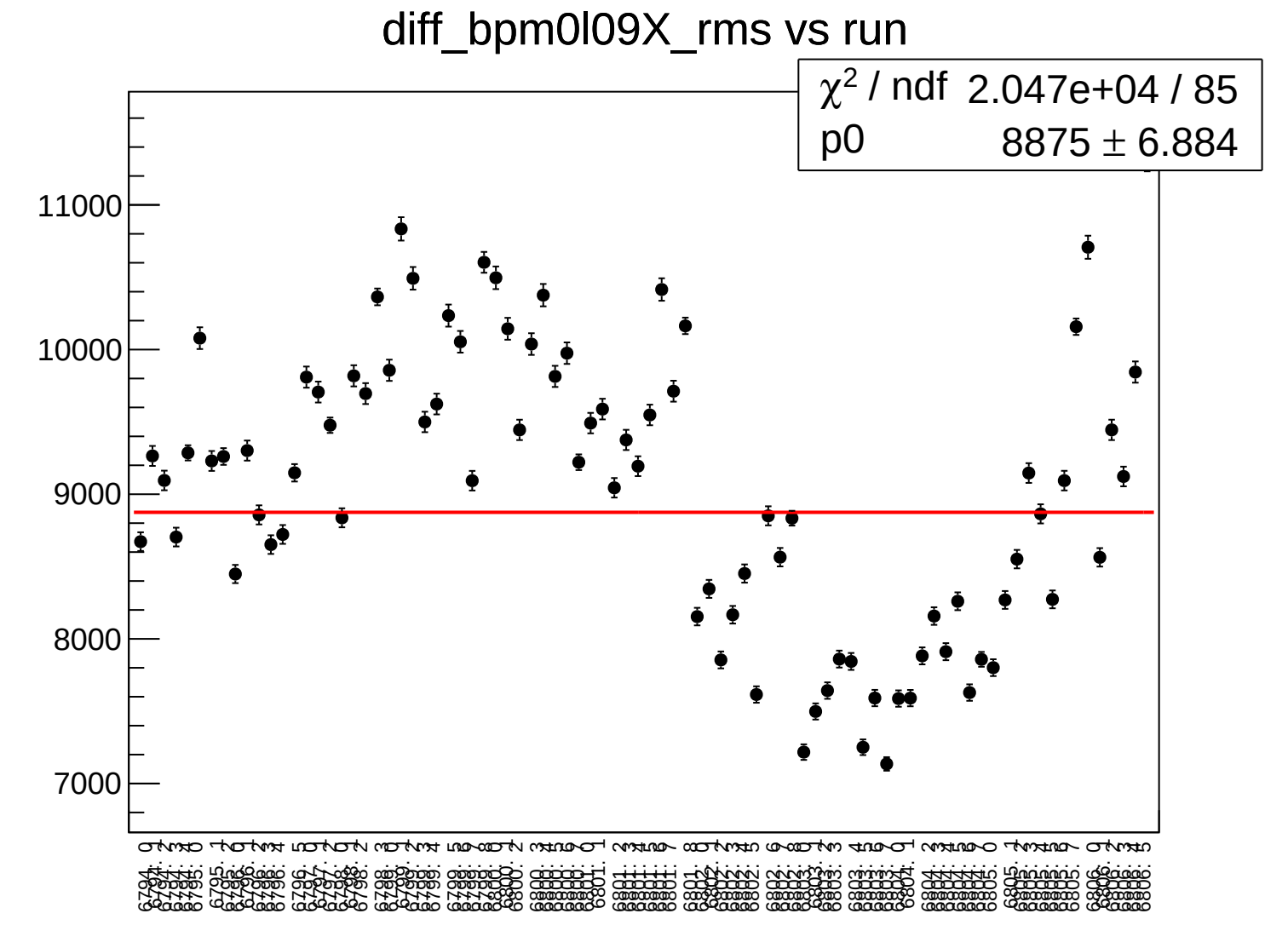

diff_bpm0l08Y_mean vs run
χ^2 / ndf 82.97 / 85
p0 1.896 ± 1.569
pull
Entries 86
Mean −103.8
Std Dev 0

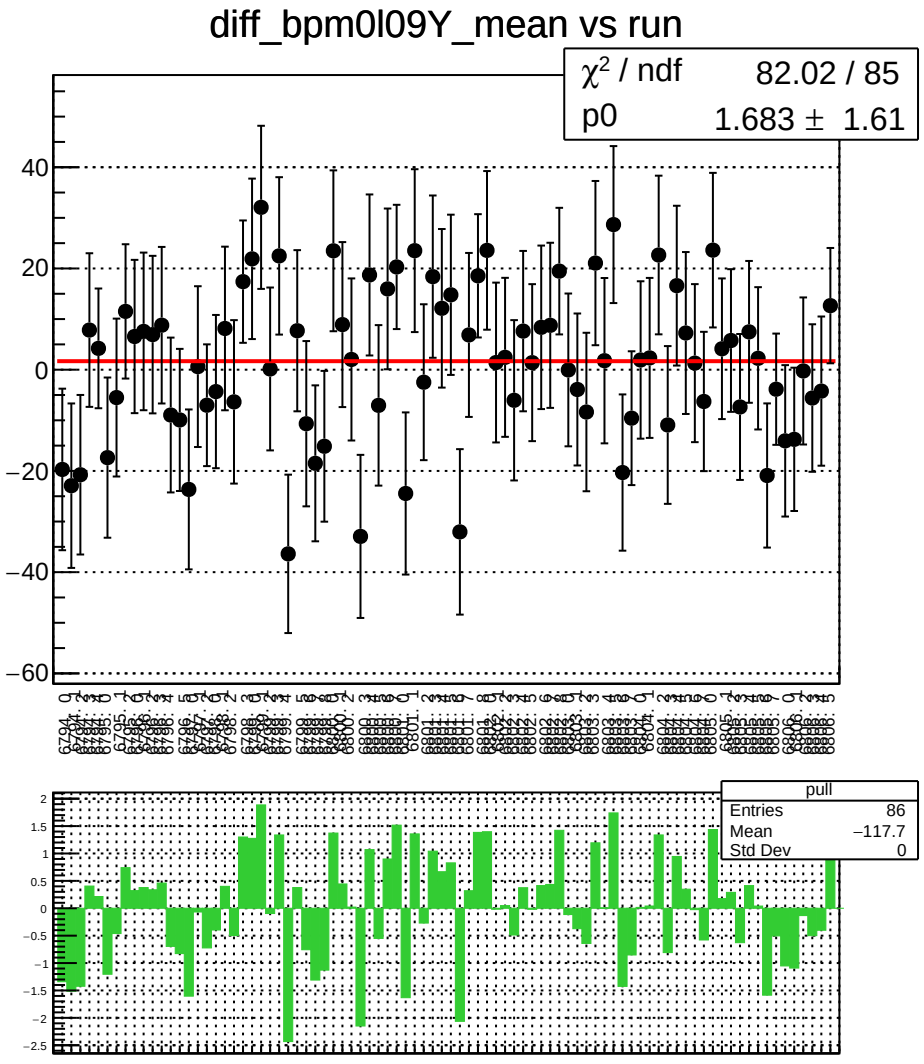

pull1D
Entries 86
Mean −0.01171
Std Dev 0.9822

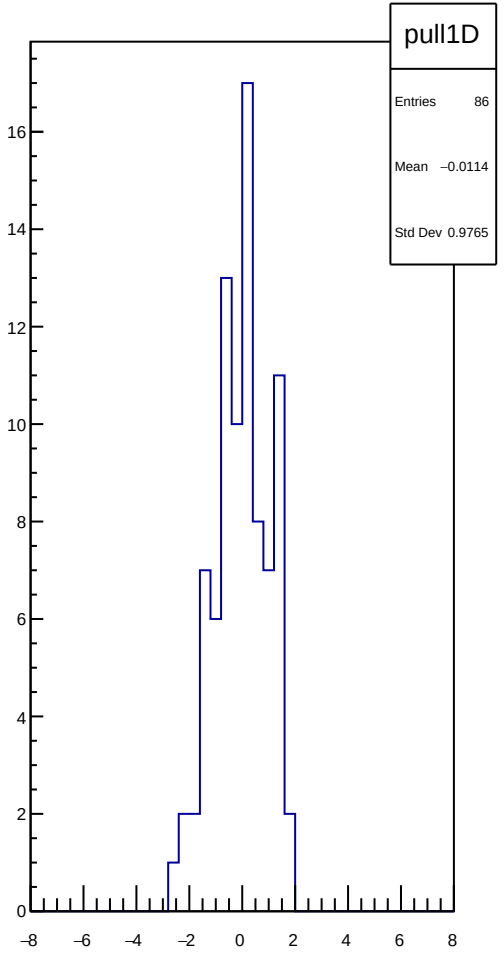

diff_bpm0l08Y_rms vs run
χ² / ndf 3082 / 85
p0 1437 ± 1.109
1550
1500
1450
1400
1350
1300
1250

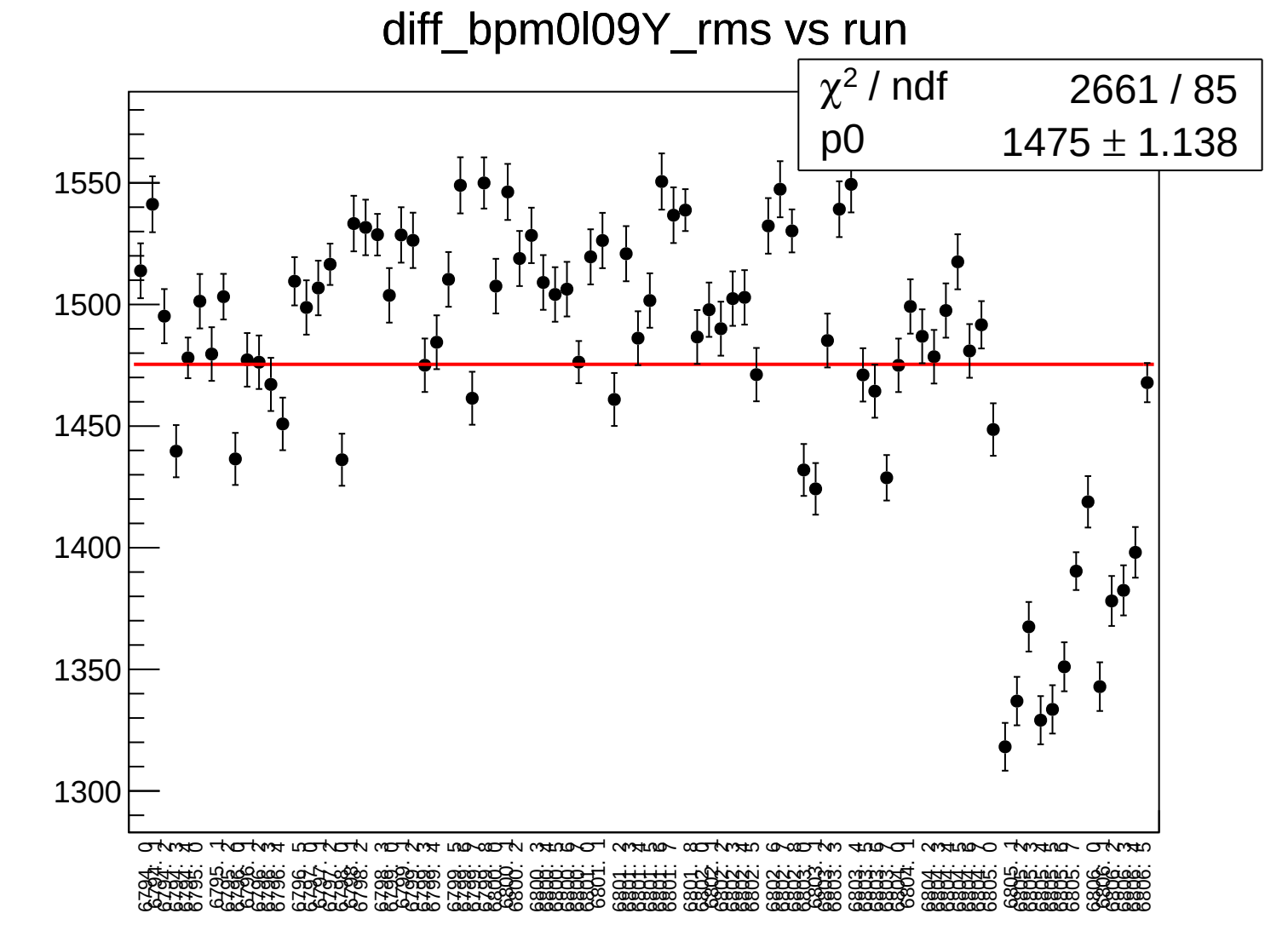

diff_bpm0l09X_mean vs run
χ² / ndf 75.59 / 85
p0 4.494 ± 9.736
pull
Entries 86
Mean 14.17
Std Dev 0

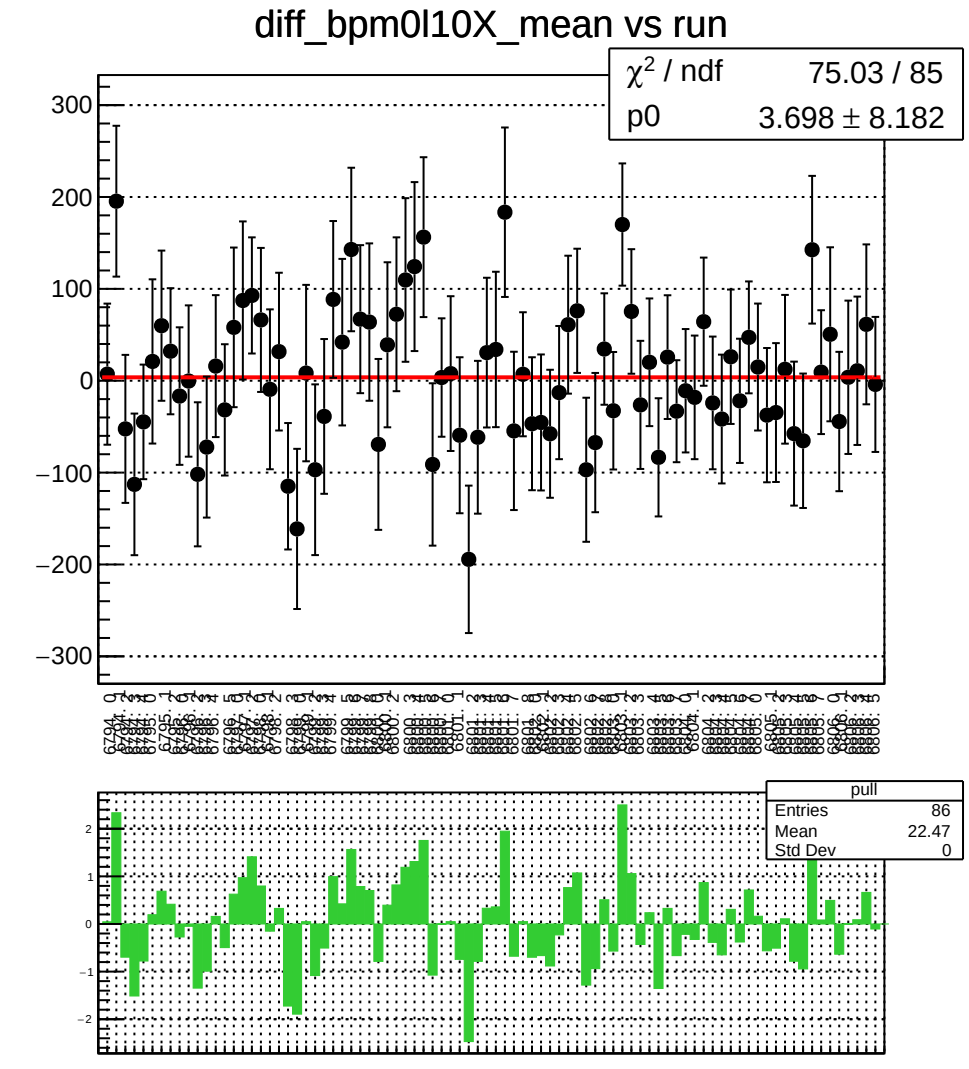

pull1D
Entries 86
Mean 0.01291
Std Dev 0.9374

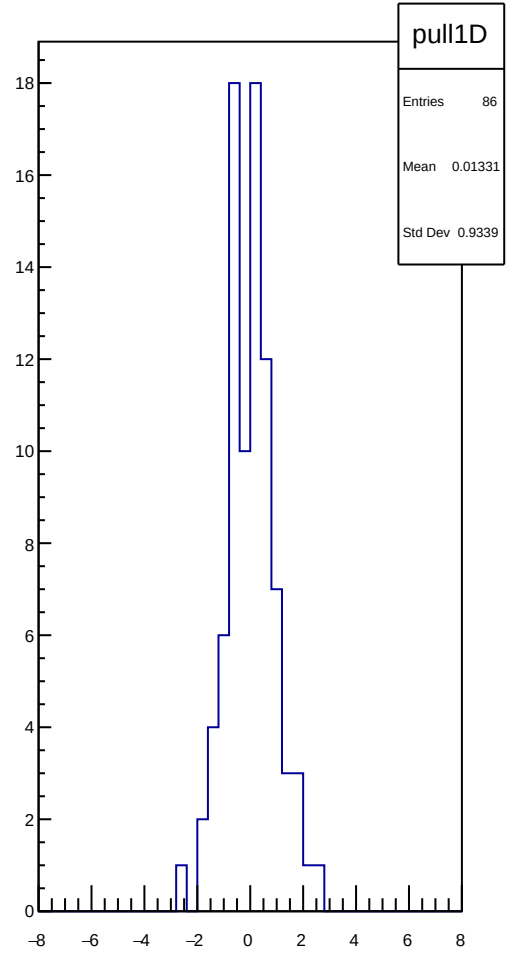

diff_bpm0l09X_rms vs run
χ² / ndf 2.047e+04 / 85
p0 8875 ± 6.884
11000
10000
9000
8000
7000

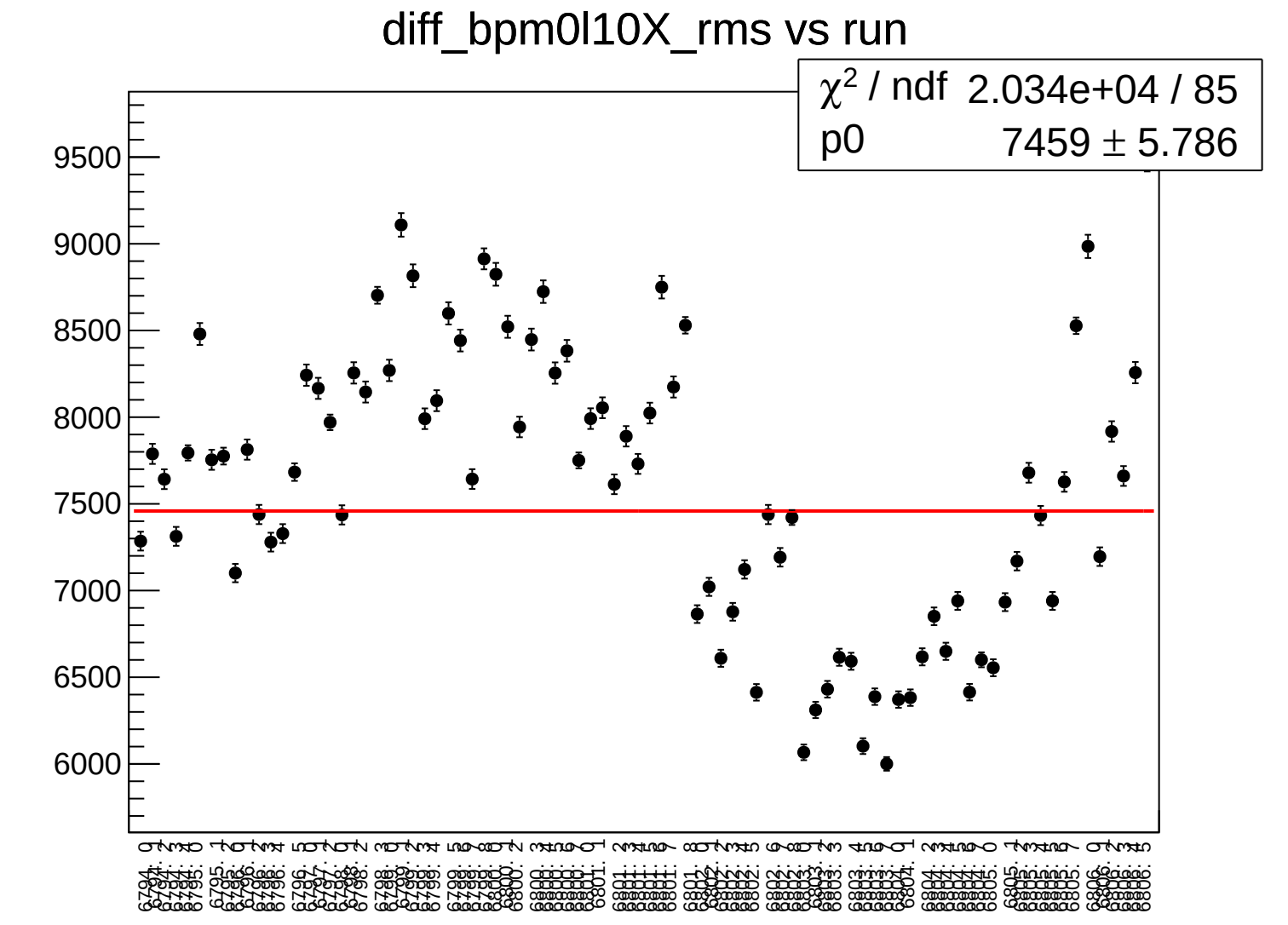

diff_bpm0l09Y_mean vs run
χ² / ndf 82.02 / 85
p0 1.683 ± 1.61
pull
Entries 86
Mean −117.7
Std Dev 0

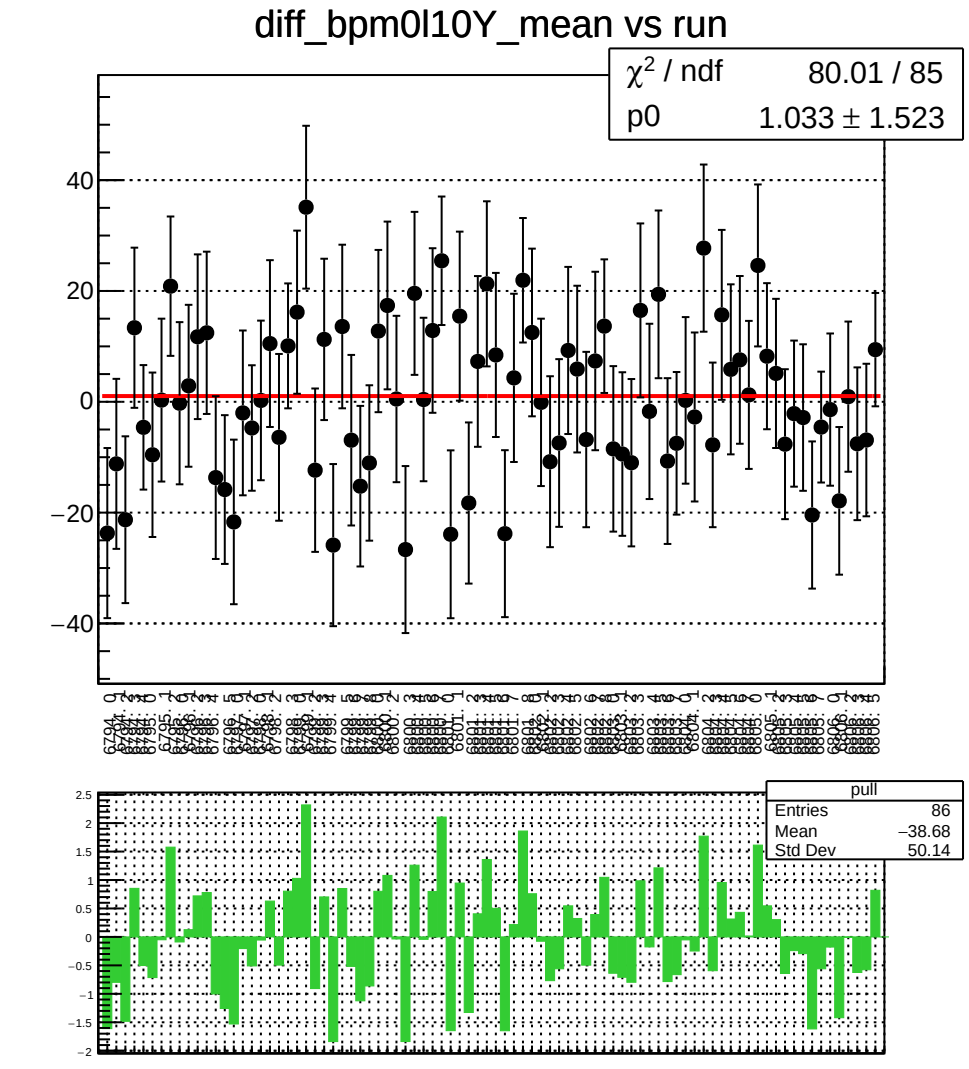

pull1D
Entries 86
Mean −0.0114
Std Dev 0.9765

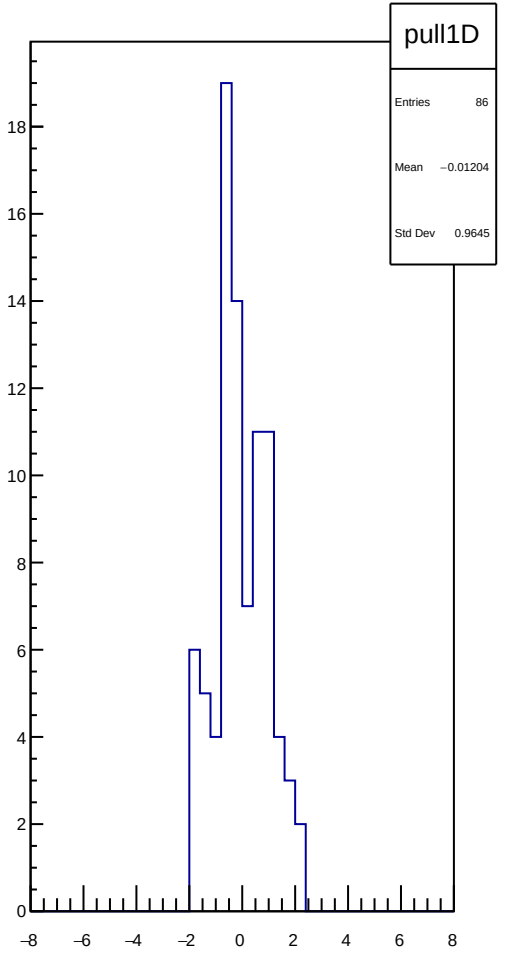

diff_bpm0l09Y_rms vs run
χ² / ndf 2661 / 85
p0 1475 ± 1.138
1550
1500
1450
1400
1350
1300

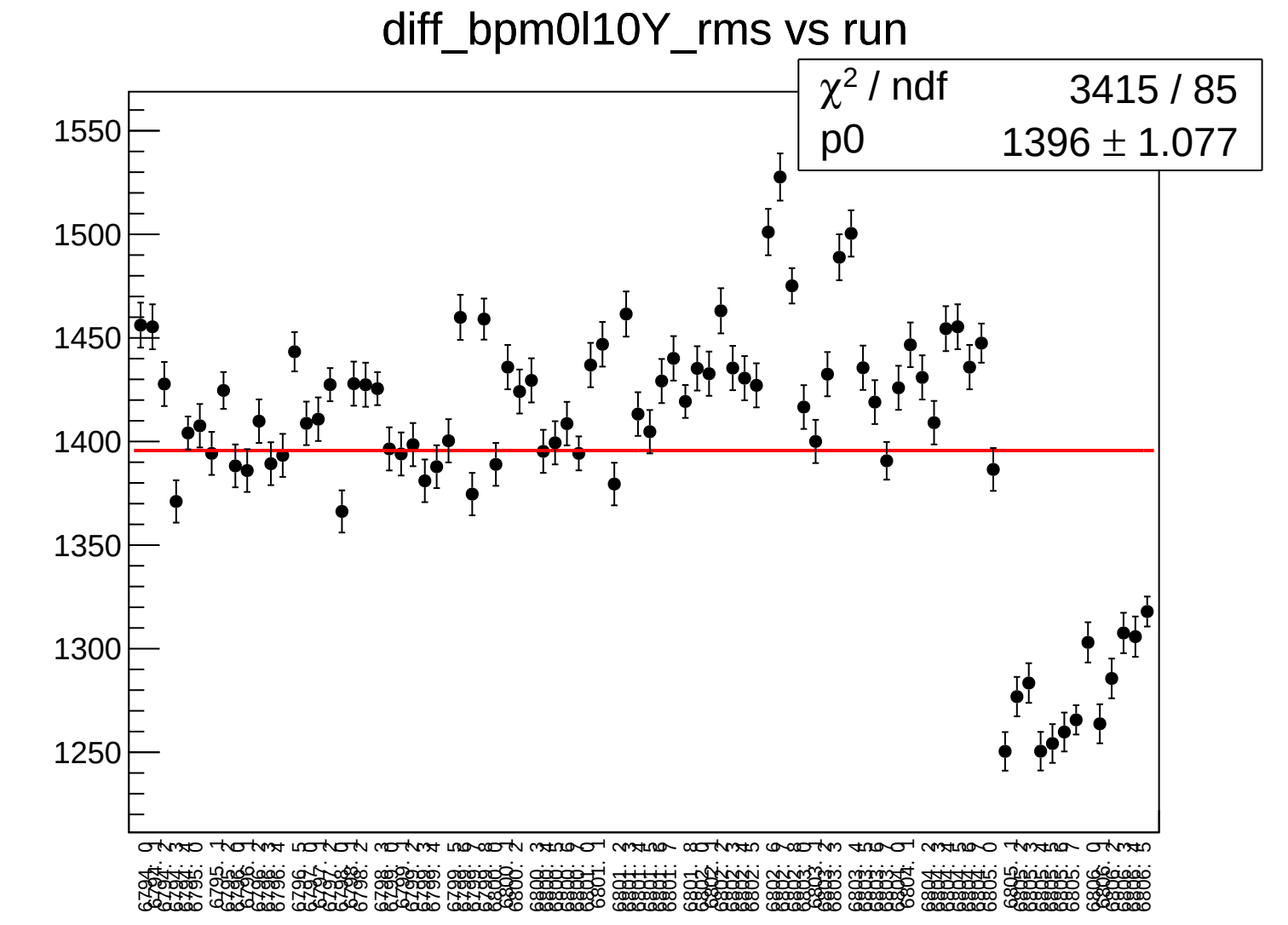

diff_bpm0l10X_mean vs run
χ^2 / ndf 75.03 / 85
p0 3.698 ± 8.182
pull
Entries 86
Mean 22.47
Std Dev 0

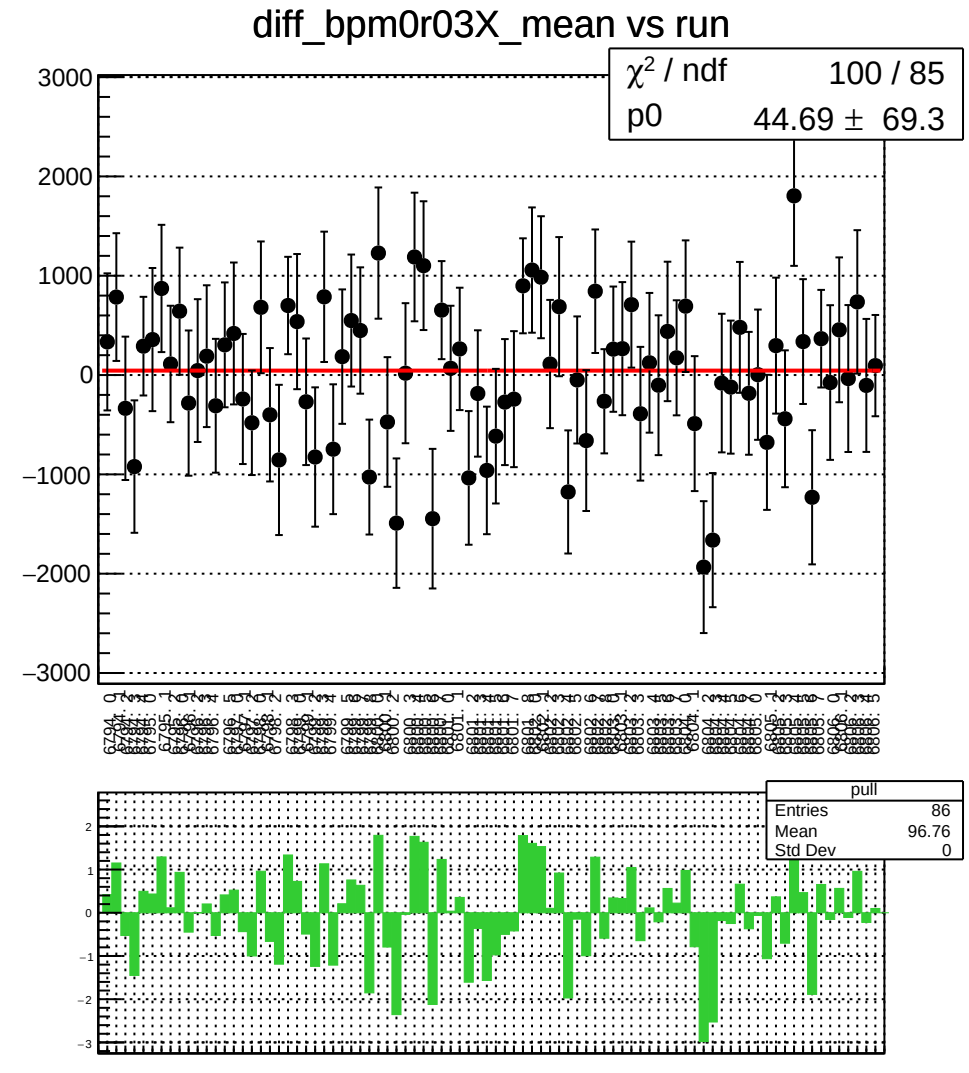

pull1D
Entries 86
Mean 0.01331
Std Dev 0.9339

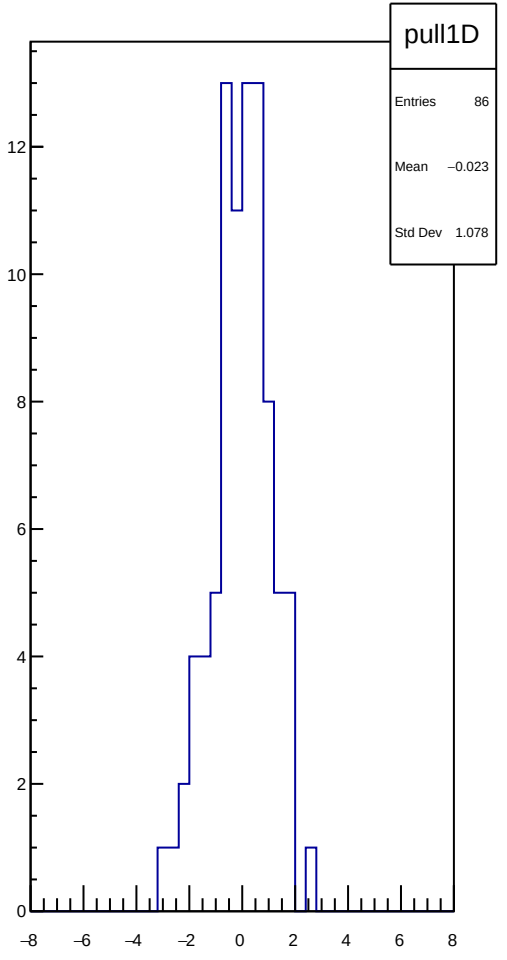

diff_bpm0l10X_rms vs run
χ² / ndf 2.034e+04 / 85
p0 7459 ± 5.786
9500
9000
8500
8000
7500
7000
6500
6000


diff_bpm0l10Y_mean vs run
χ² / ndf 80.01 / 85
p0 1.033 ± 1.523
pull
Entries 86
Mean −38.68
Std Dev 50.14

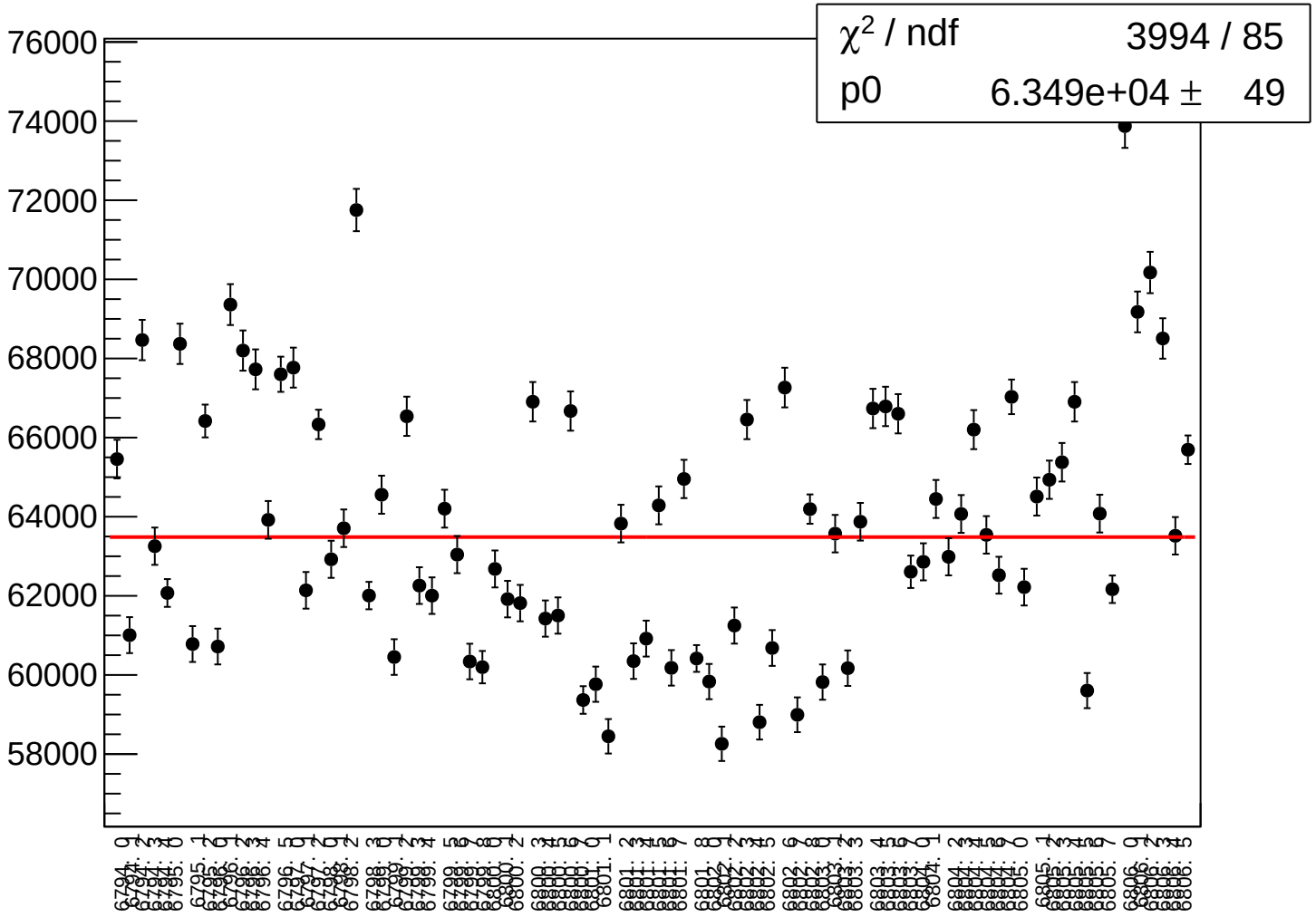

pull1D
Entries 86
Mean −0.01204
Std Dev 0.9645

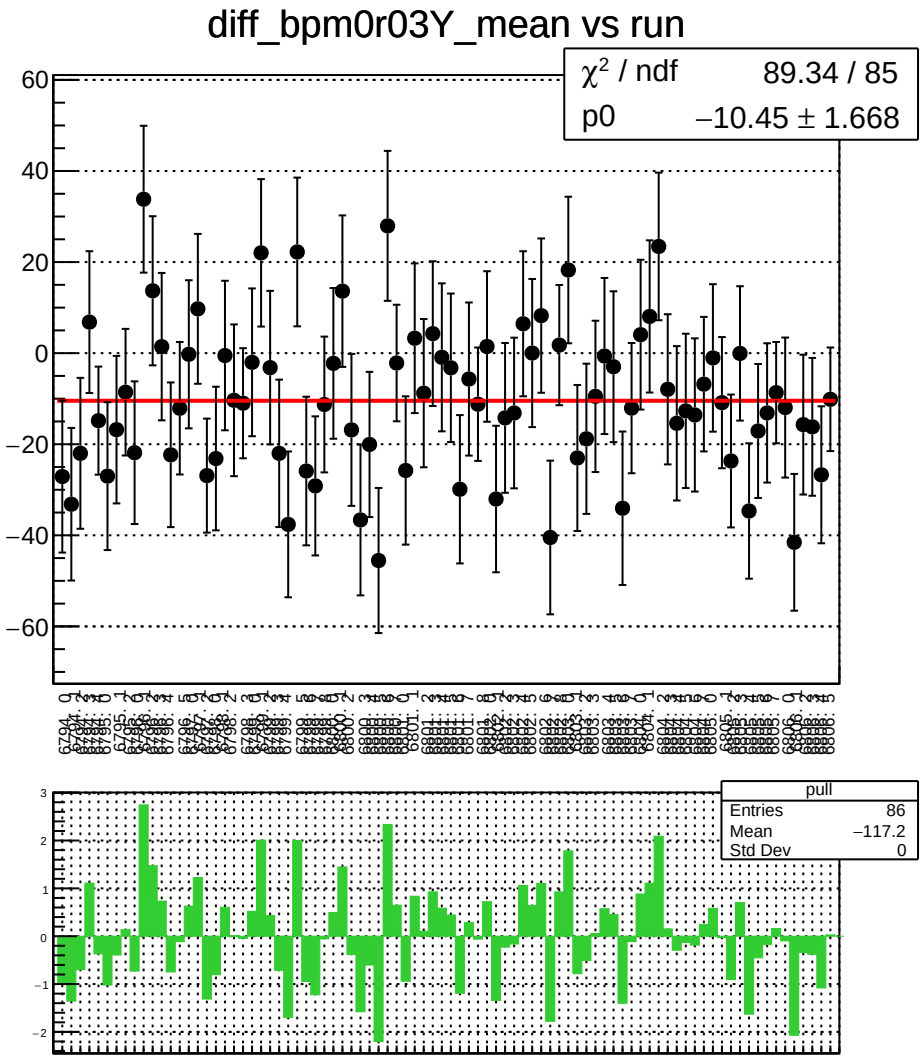

diff_bpm0l10Y_rms vs run
χ² / ndf 3415 / 85
p0 1396 ± 1.077
1550
1500
1450
1400
1350
1300
1250

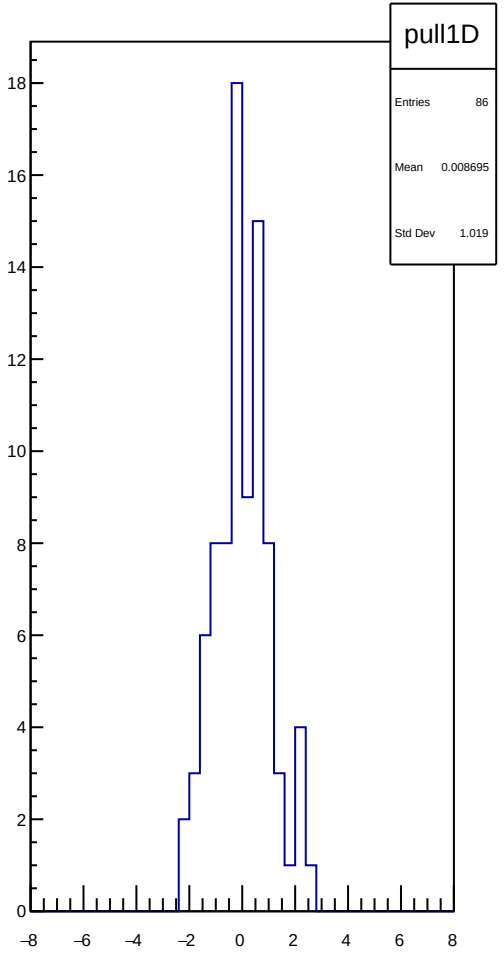

diff_bpm0r03X_mean vs run
χ² / ndf 100 / 85
p0 44.69 ± 69.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 96.76
Std Dev 0
2
1
0
−1
−2
−3

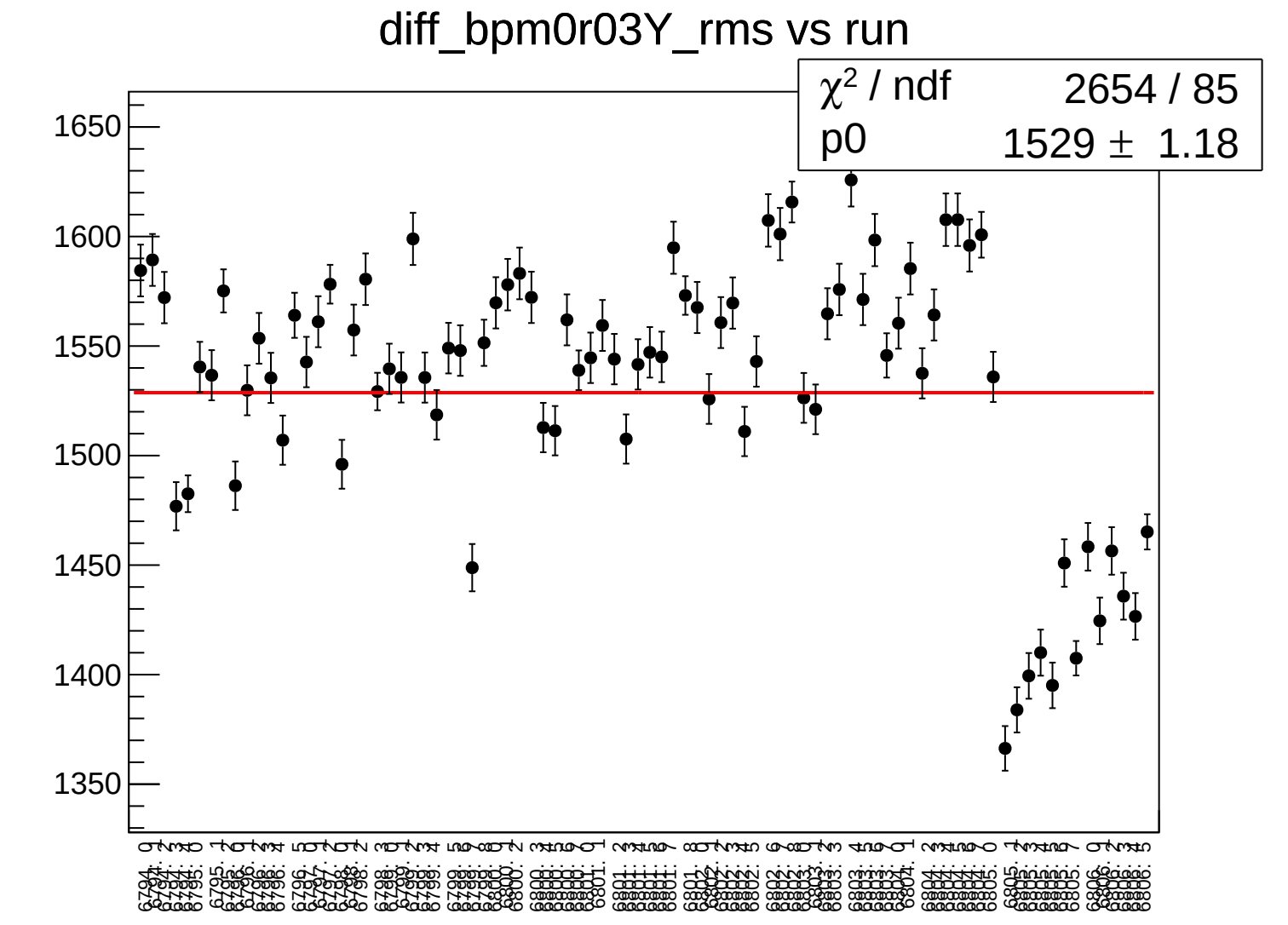

pull1D
Entries 86
Mean −0.023
Std Dev 1.078
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

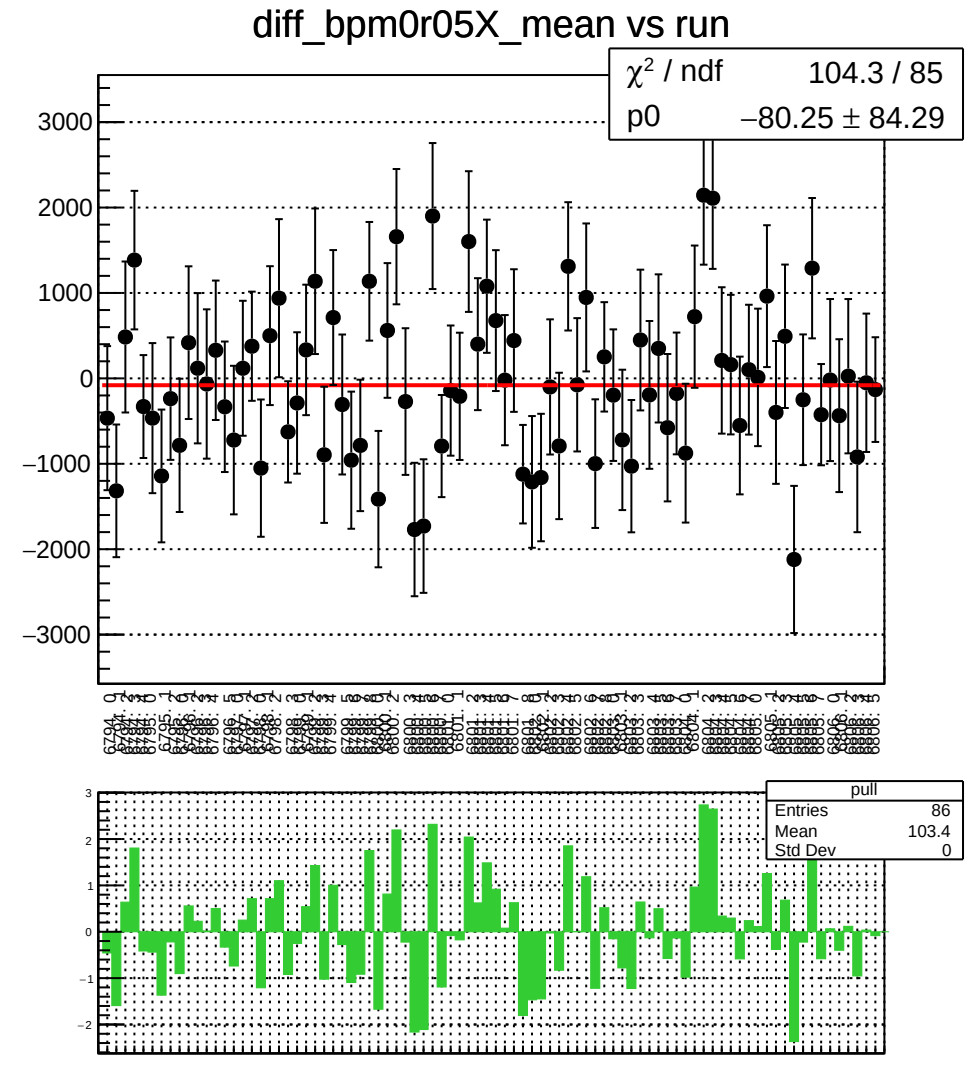
diff_bpm0r03X_rms vs run

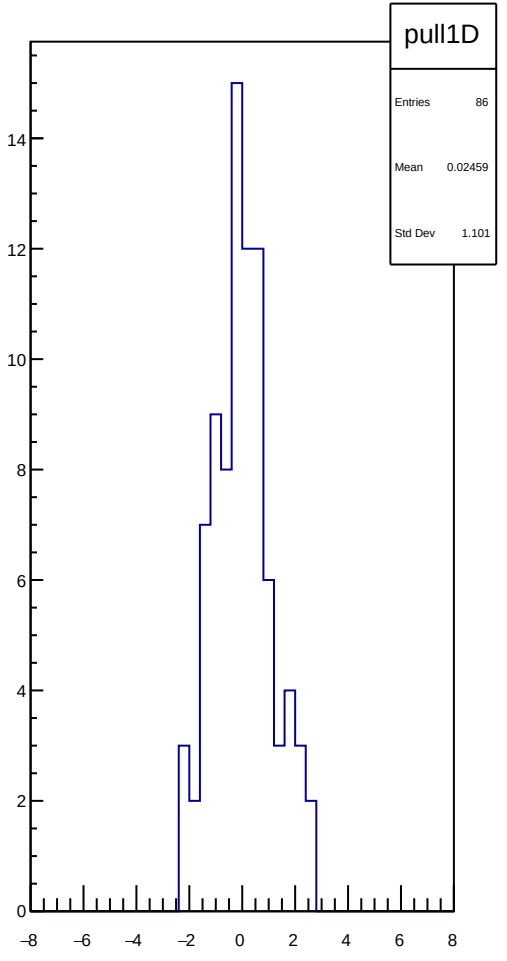


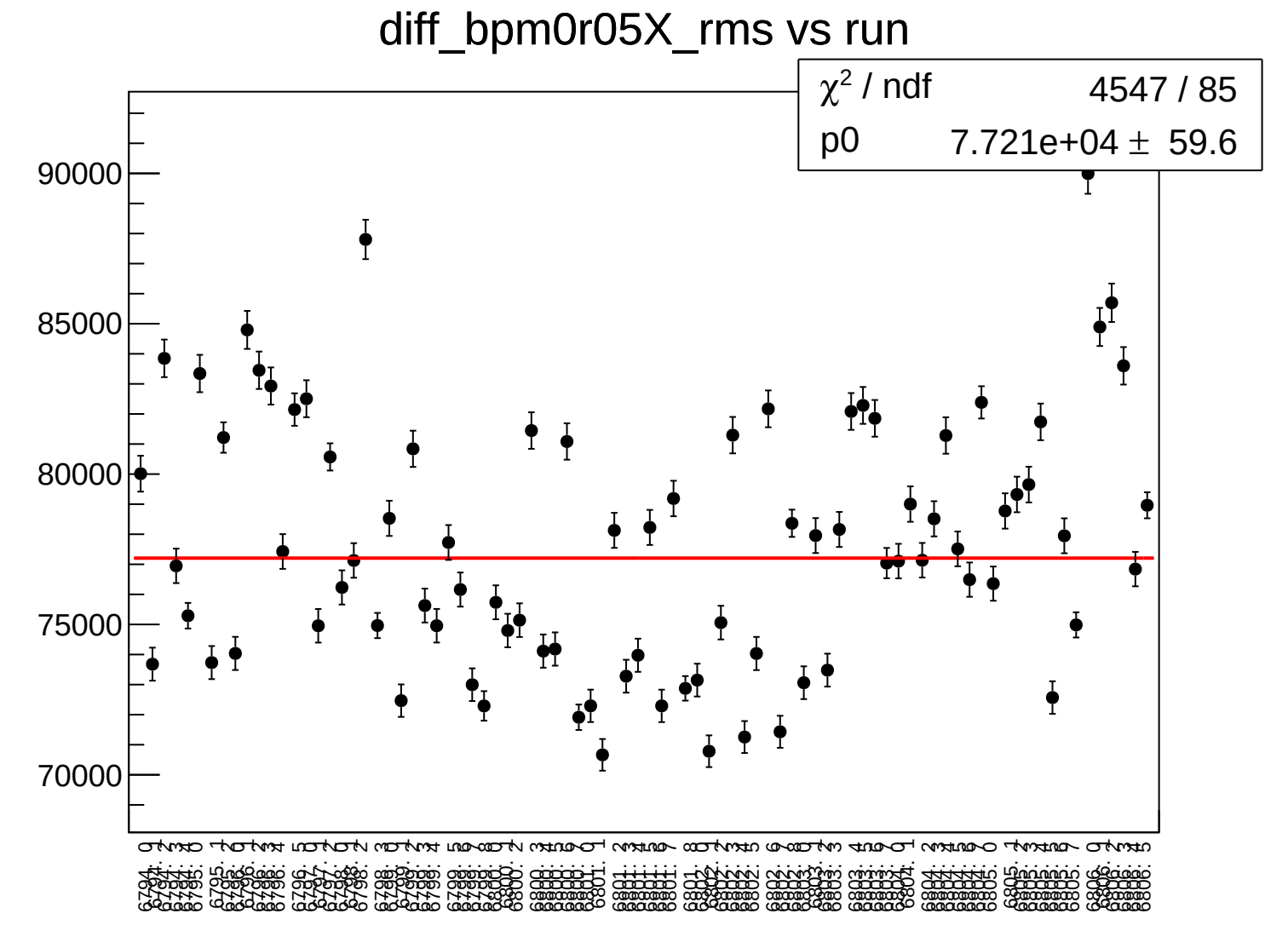

diff_bpm0r03Y_mean vs run
χ² / ndf 89.34 / 85
p0 −10.45 ± 1.668
pull
Entries 86
Mean −117.2
Std Dev 0

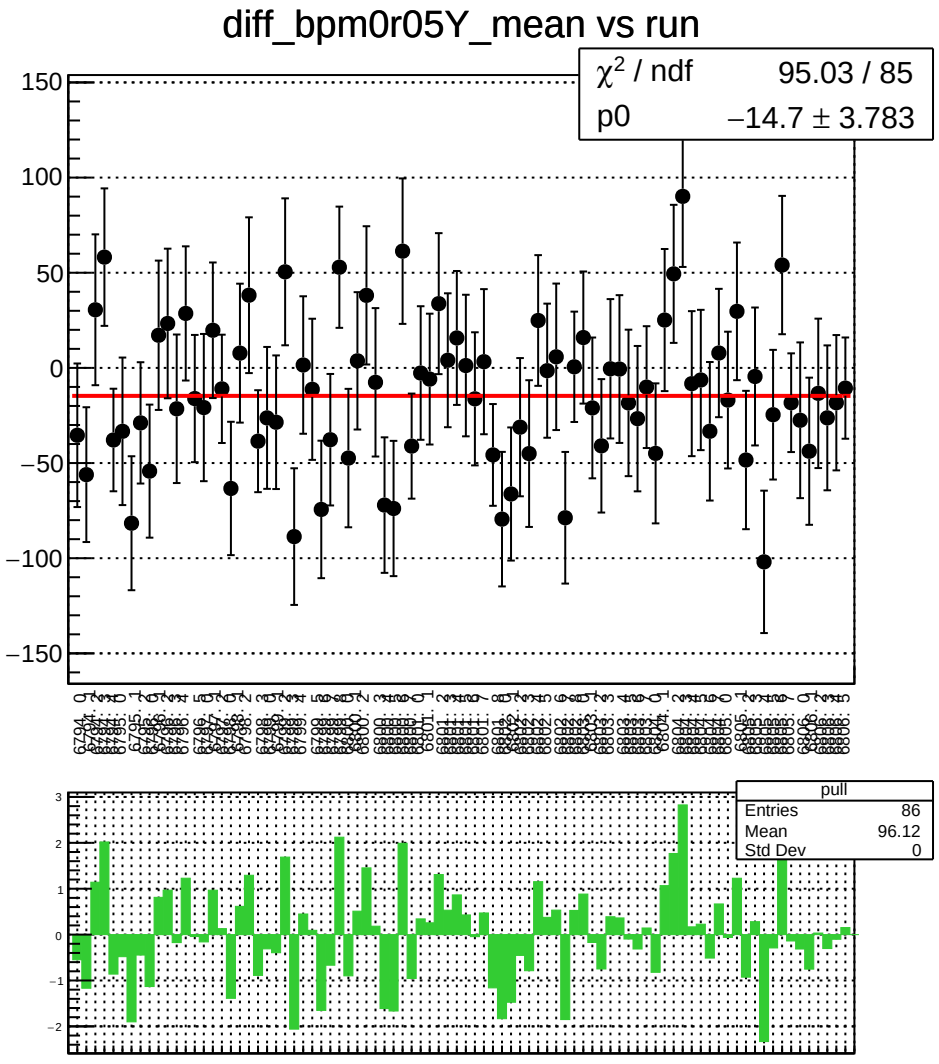

pull1D
Entries 86
Mean 0.008695
Std Dev 1.019

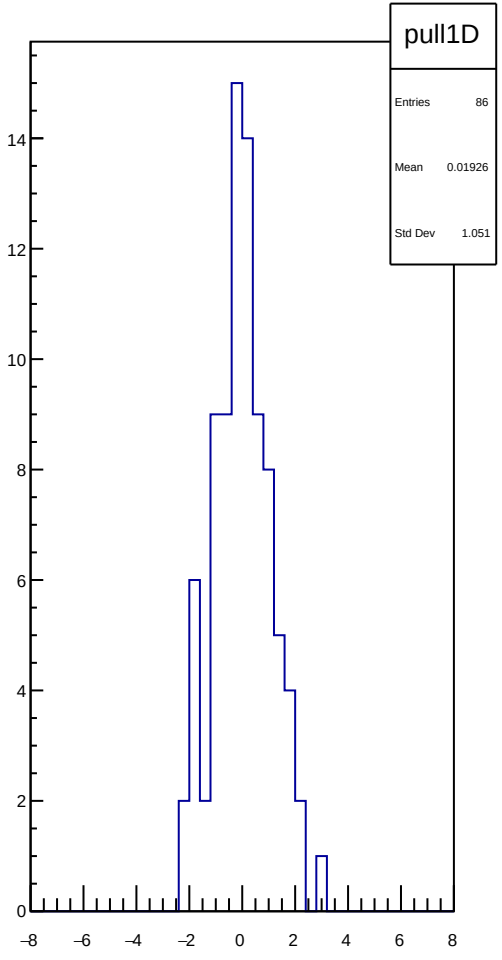

diff_bpm0r03Y_rms vs run
χ² / ndf 2654 / 85
p0 1529 ± 1.18
1650
1600
1550
1500
1450
1400
1350

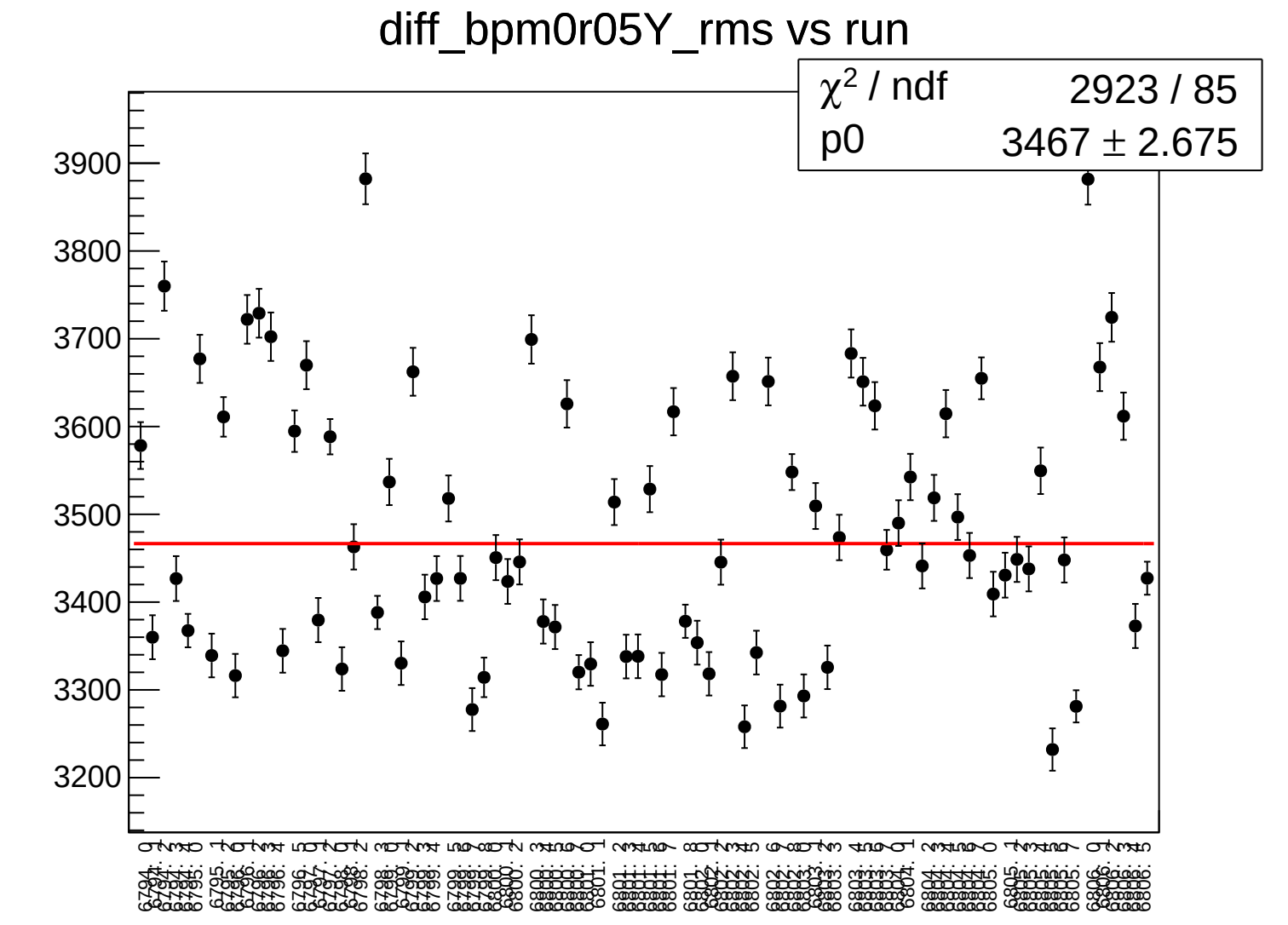

diff_bpm0r05X_mean vs run
χ² / ndf 104.3 / 85
p0 −80.25 ± 84.29
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 103.4
Std Dev 0
3
2
1
0
−1
−2

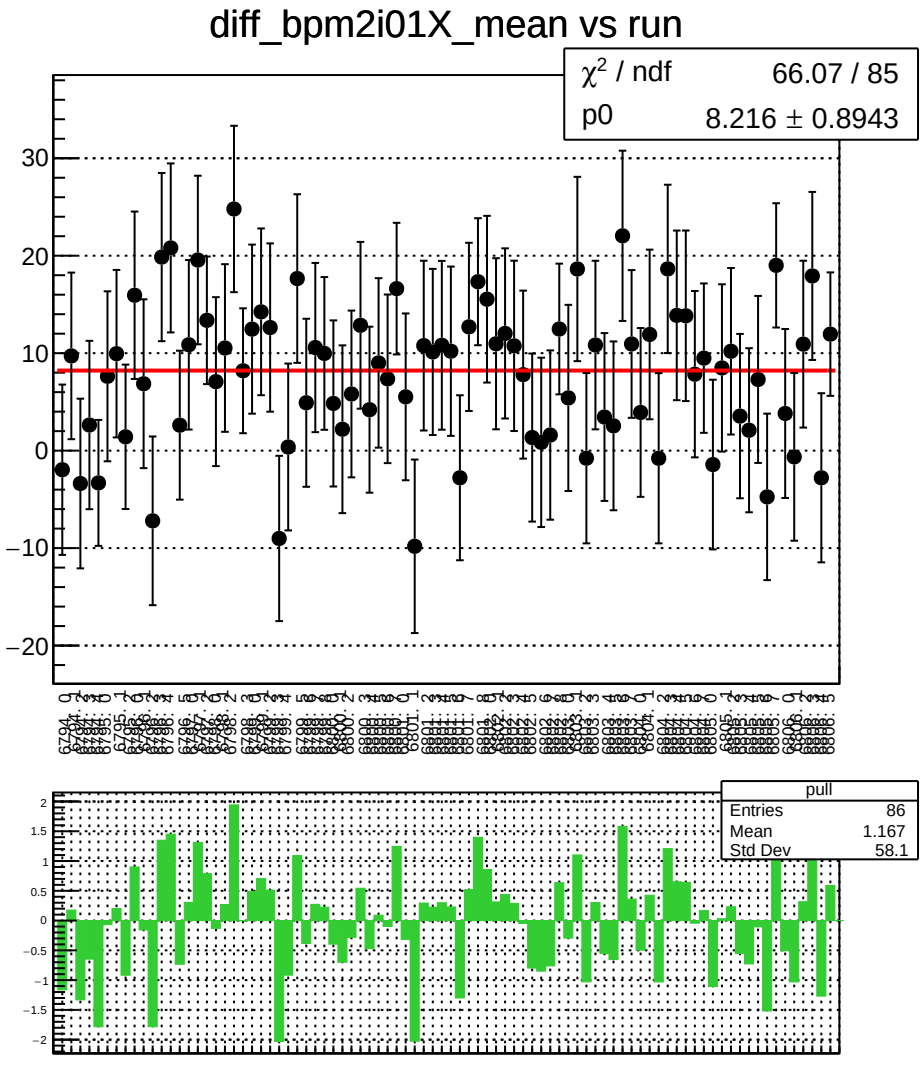

pull1D
Entries 86
Mean 0.02459
Std Dev 1.101
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

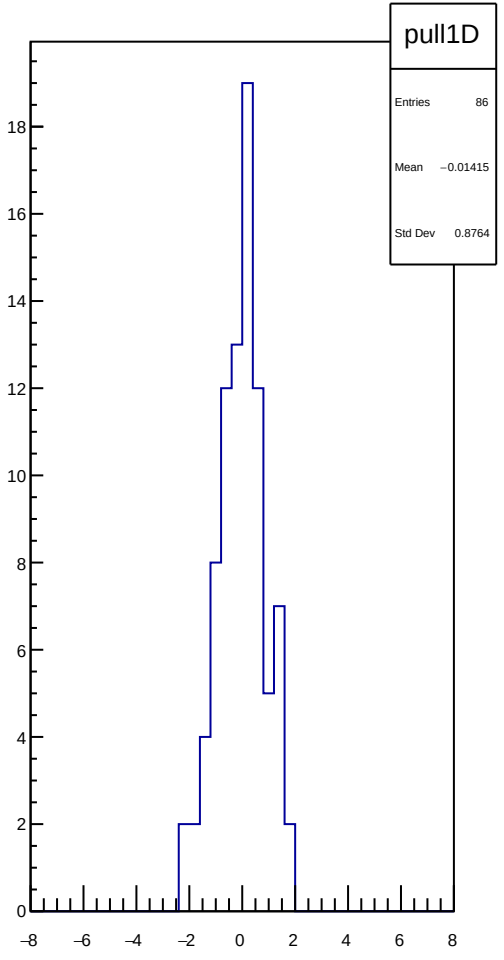

diff_bpm0r05X_rms vs run
χ² / ndf 4547 / 85
p0 7.721e+04 ± 59.6
90000
85000
80000
75000
70000

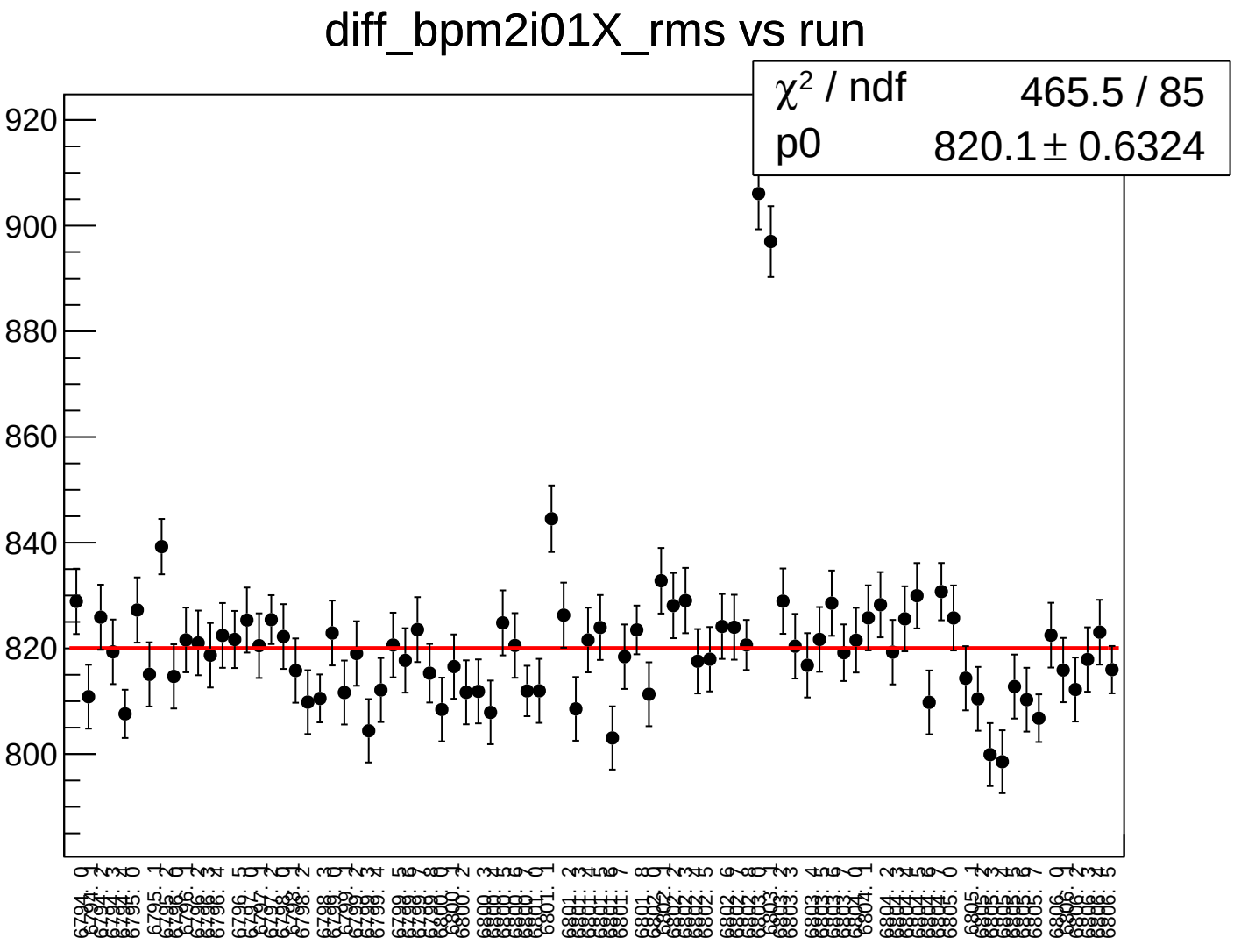

diff_bpm0r05Y_mean vs run
χ² / ndf 95.03 / 85
p0 −14.7 ± 3.783
pull
Entries 86
Mean 96.12
Std Dev 0

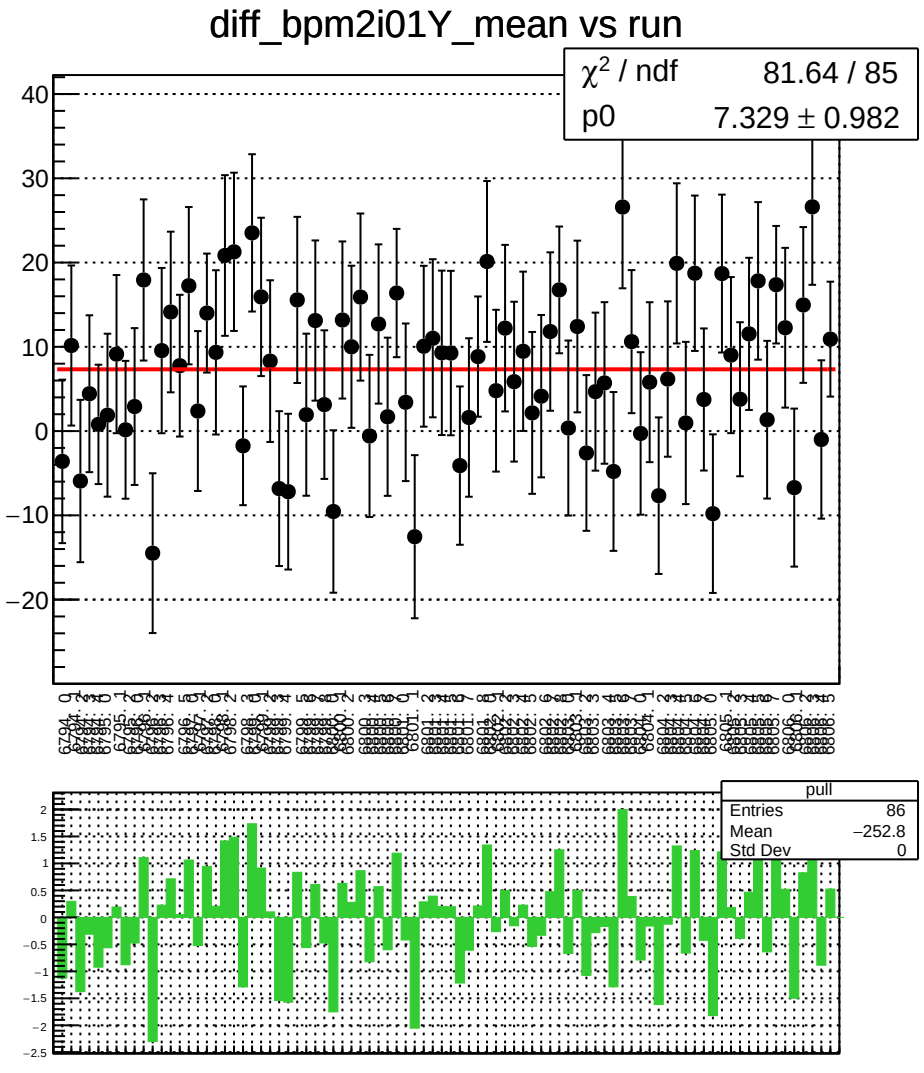

pull1D
Entries 86
Mean 0.01926
Std Dev 1.051

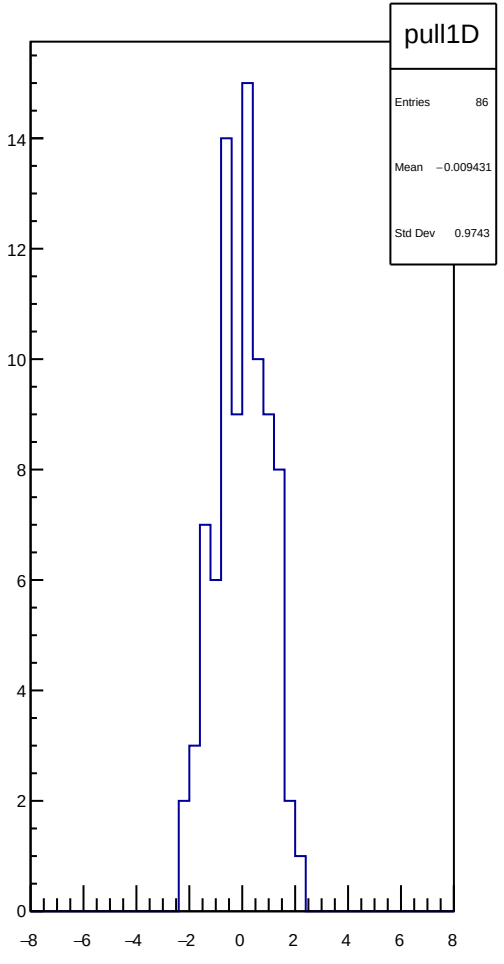

diff_bpm0r05Y_rms vs run
χ² / ndf 2923 / 85
p0 3467 ± 2.675
3900
3800
3700
3600
3500
3400
3300
3200

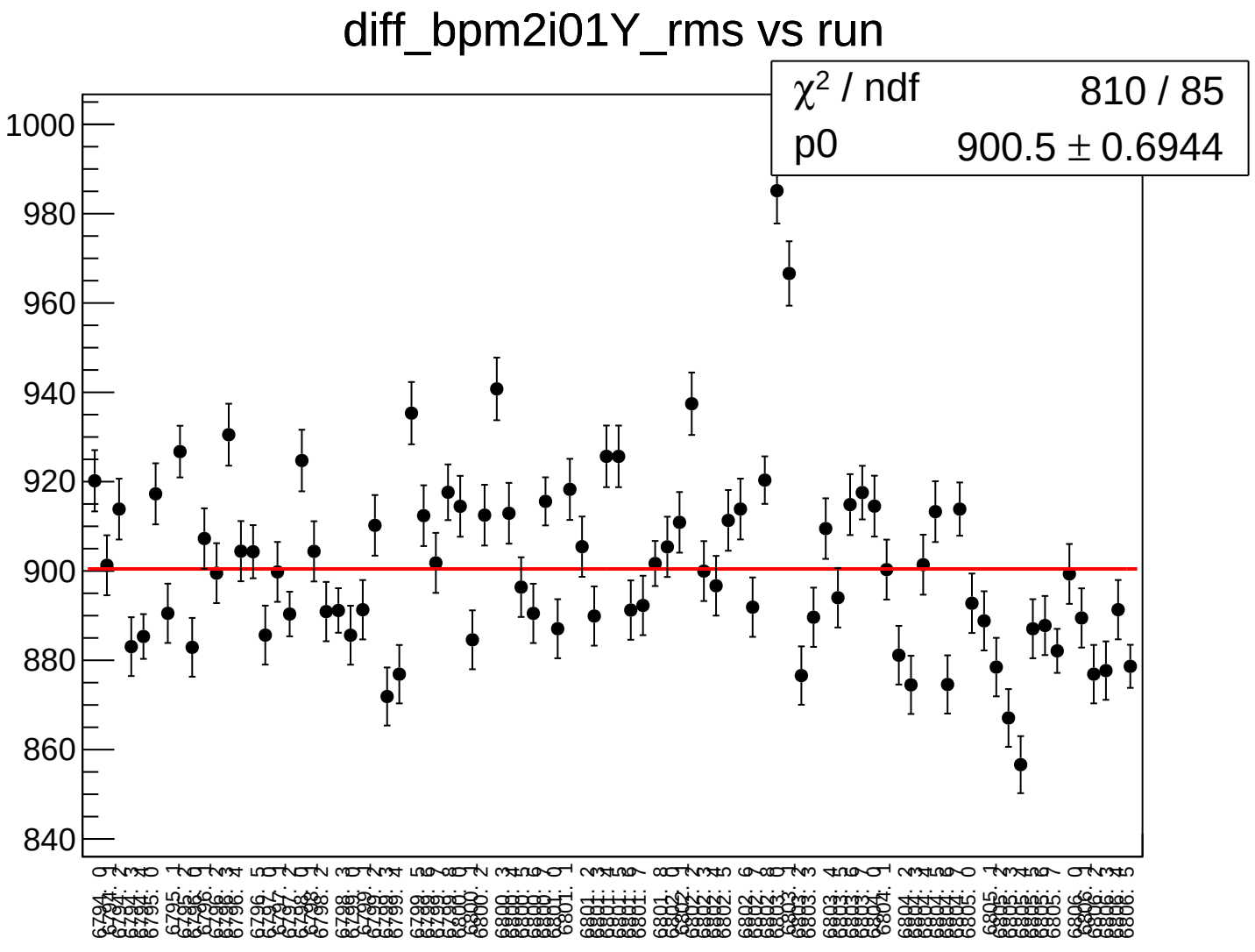

diff_bpm2i01X_mean vs run
χ² / ndf 66.07 / 85
p0 8.216 ± 0.8943
pull
Entries 86
Mean 1.167
Std Dev 58.1

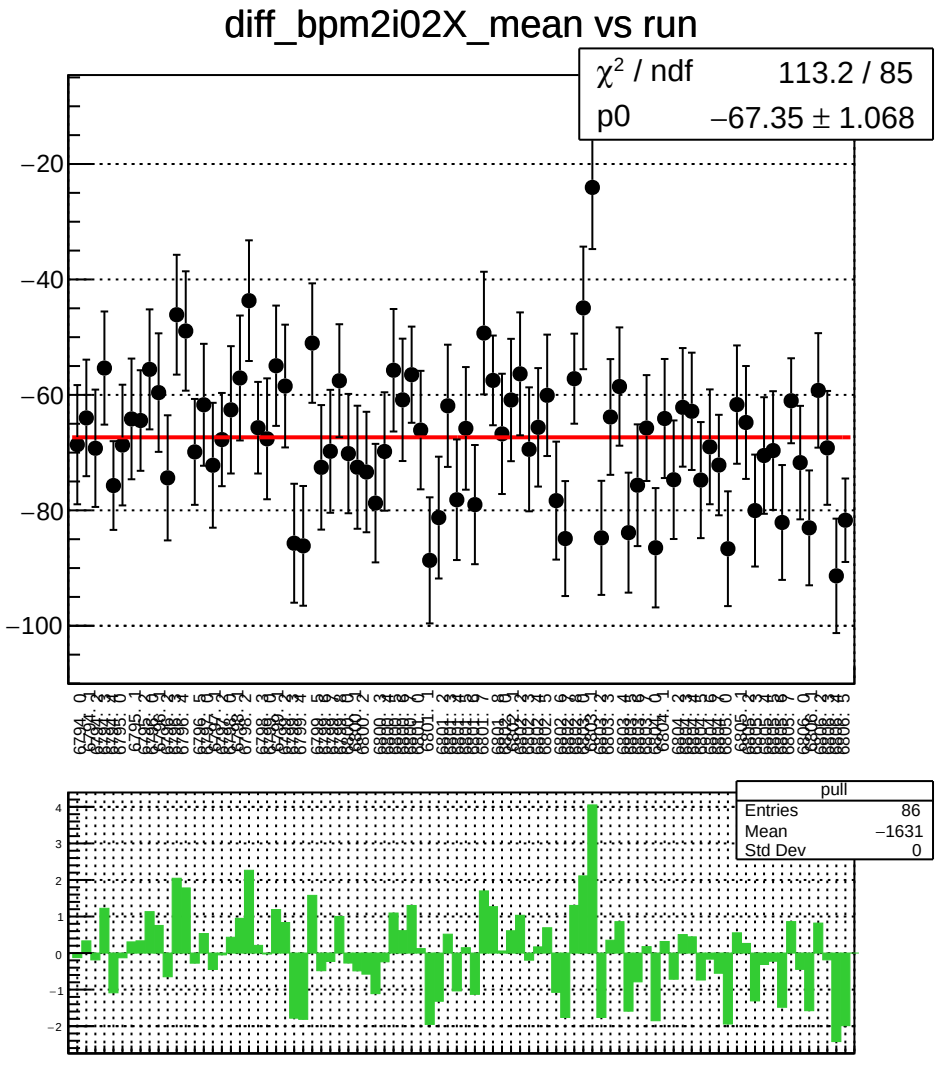

pull1D
Entries 86
Mean −0.01415
Std Dev 0.8764

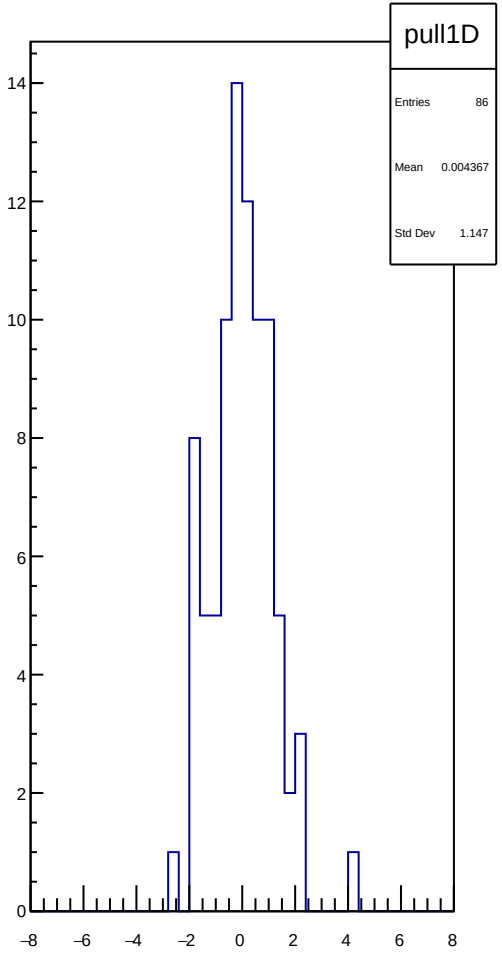

diff_bpm2i01X_rms vs run
χ² / ndf 465.5 / 85
p0 820.1 ± 0.6324
920
900
880
860
840
820
800

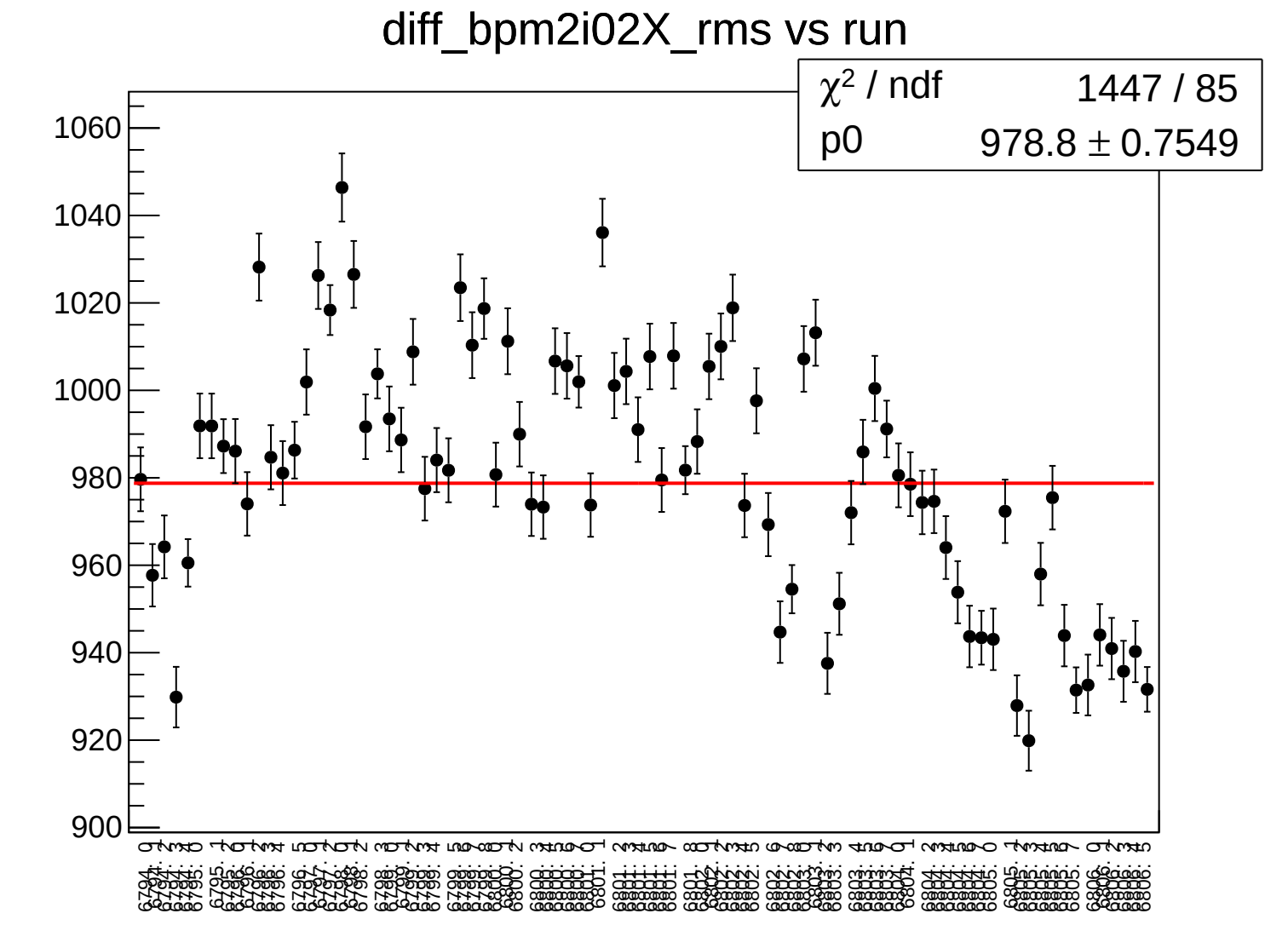

diff_bpm2i01Y_mean vs run
χ² / ndf 81.64 / 85
p0 7.329 ± 0.982
pull
Entries 86
Mean −252.8
Std Dev 0

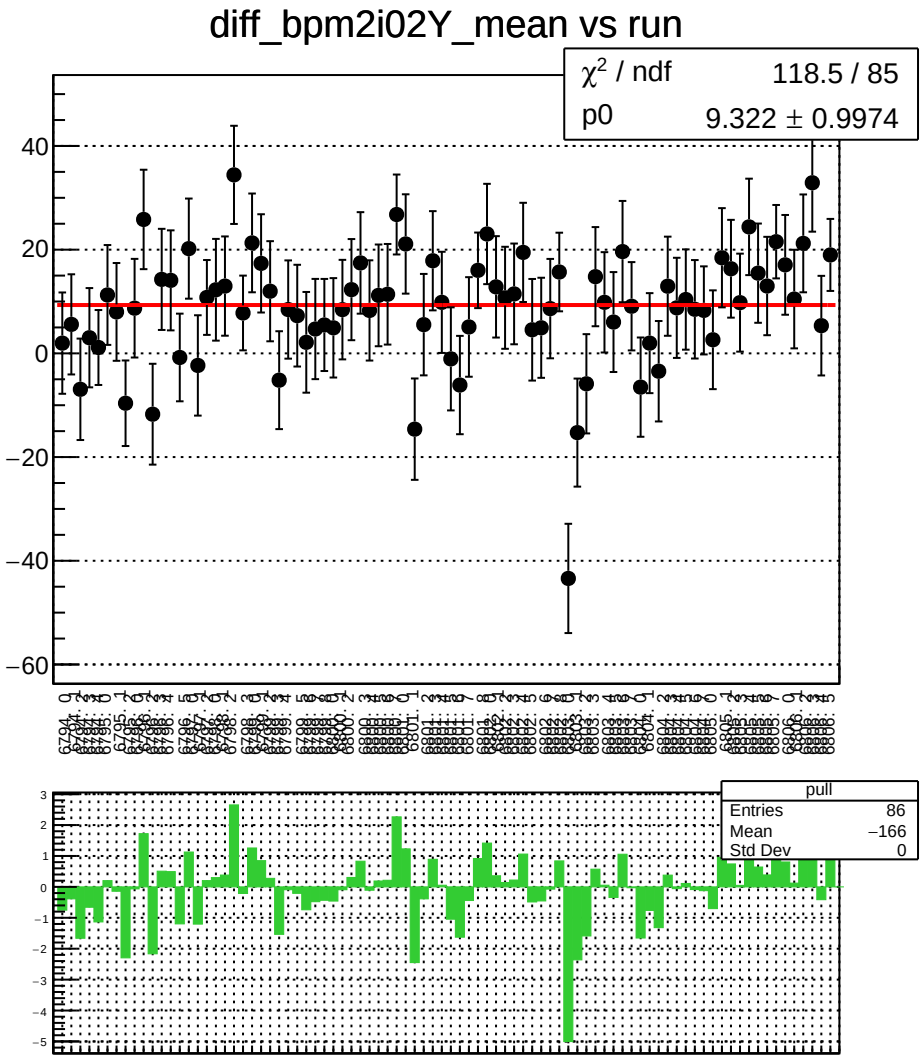

pull1D
Entries 86
Mean −0.009431
Std Dev 0.9743

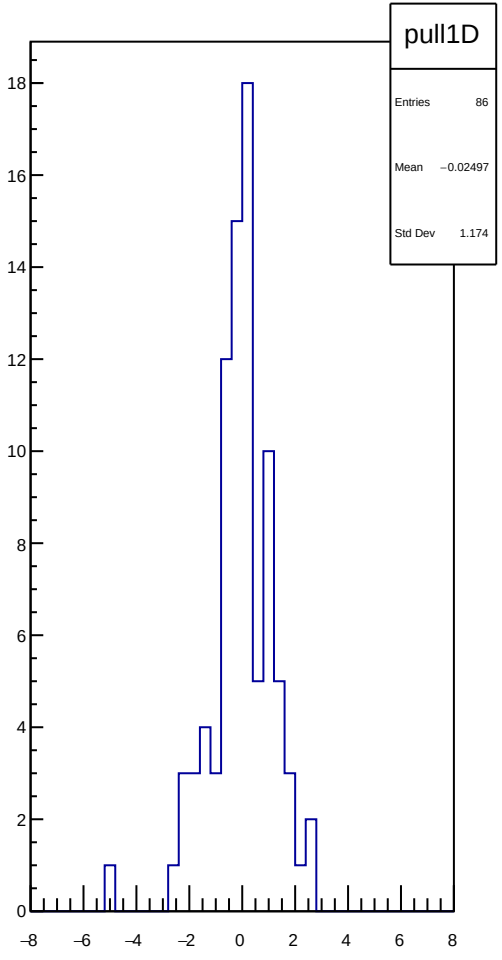

diff_bpm2i01Y_rms vs run
χ² / ndf 810 / 85
p0 900.5 ± 0.6944
1000
980
960
940
920
900
880
860
840

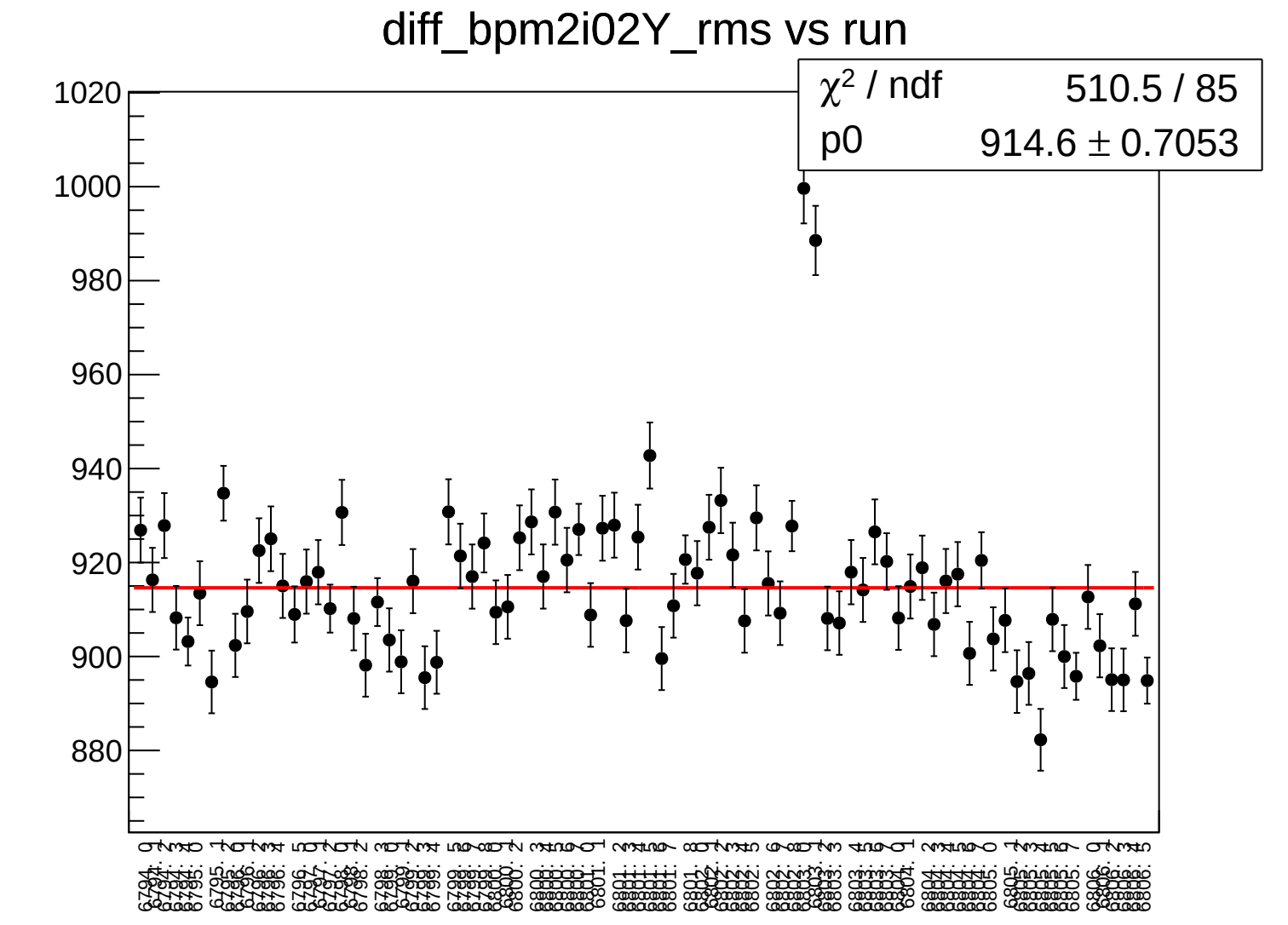

diff_bpm2i02X_mean vs run
χ² / ndf 113.2 / 85
p0 −67.35 ± 1.068
pull
Entries 86
Mean −1631
Std Dev 0

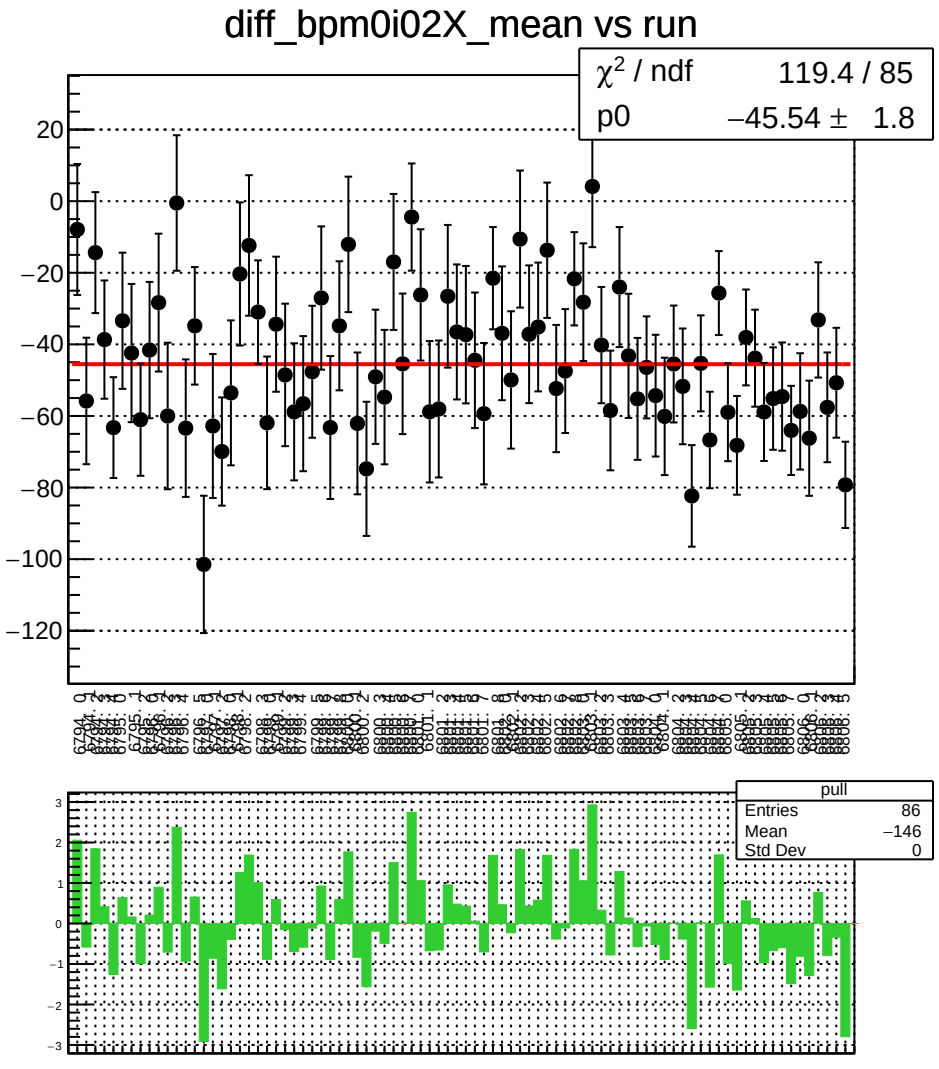

pull1D
Entries 86
Mean 0.004367
Std Dev 1.147

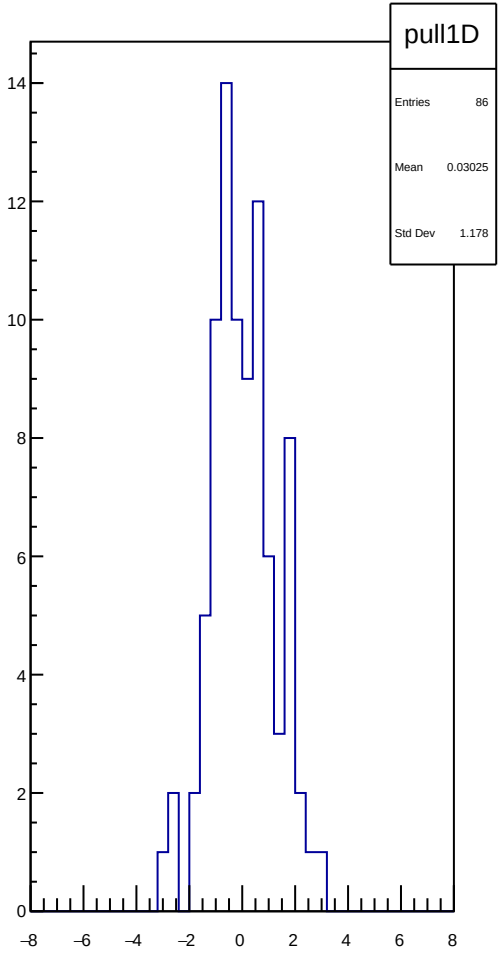

diff_bpm2i02X_rms vs run
χ² / ndf 1447 / 85
p0 978.8 ± 0.7549
1060
1040
1020
1000
980
960
940
920
900

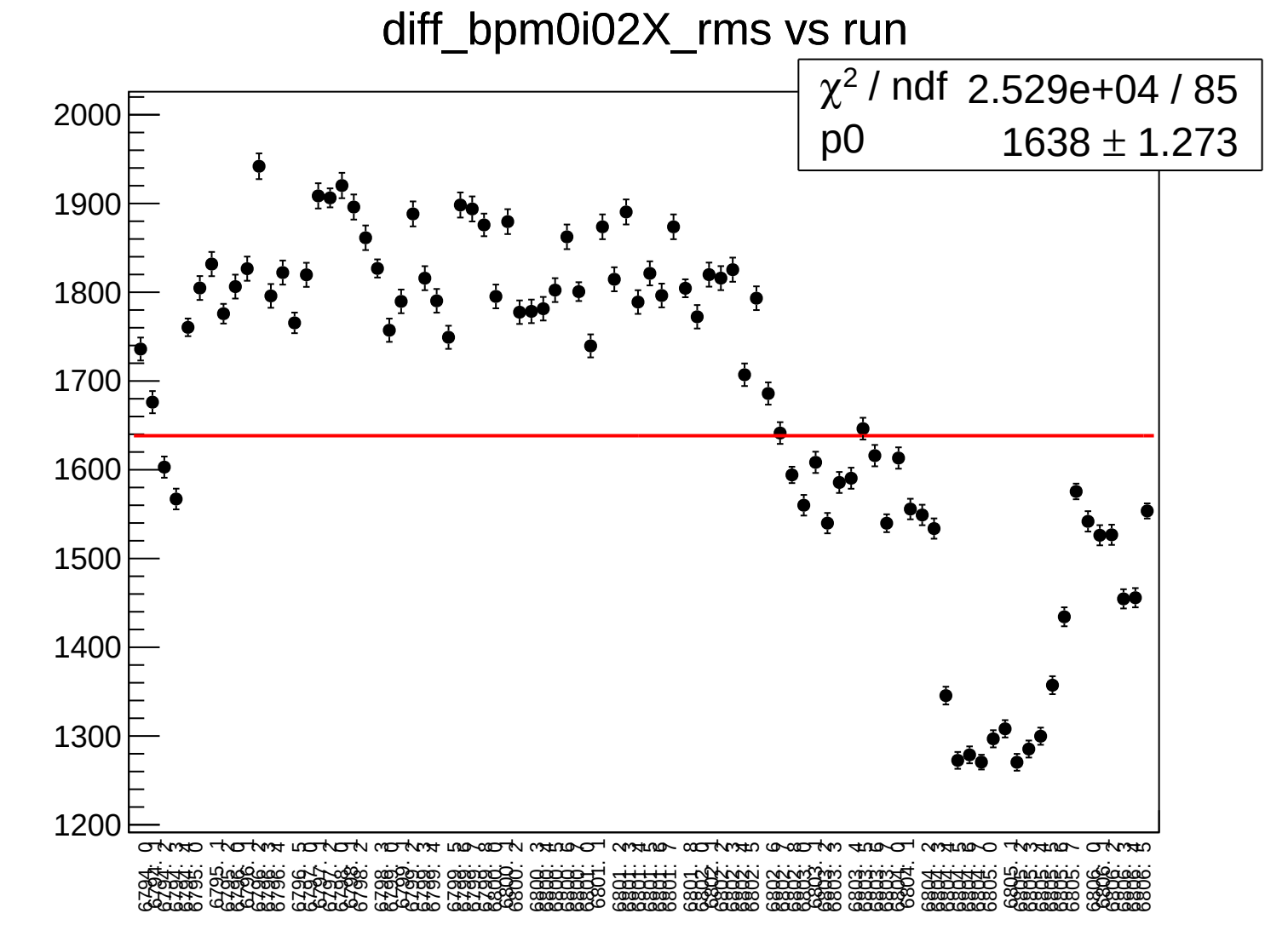

diff_bpm2i02Y_mean vs run
χ² / ndf 118.5 / 85
p0 9.322 ± 0.9974
pull
Entries 86
Mean −166
Std Dev 0

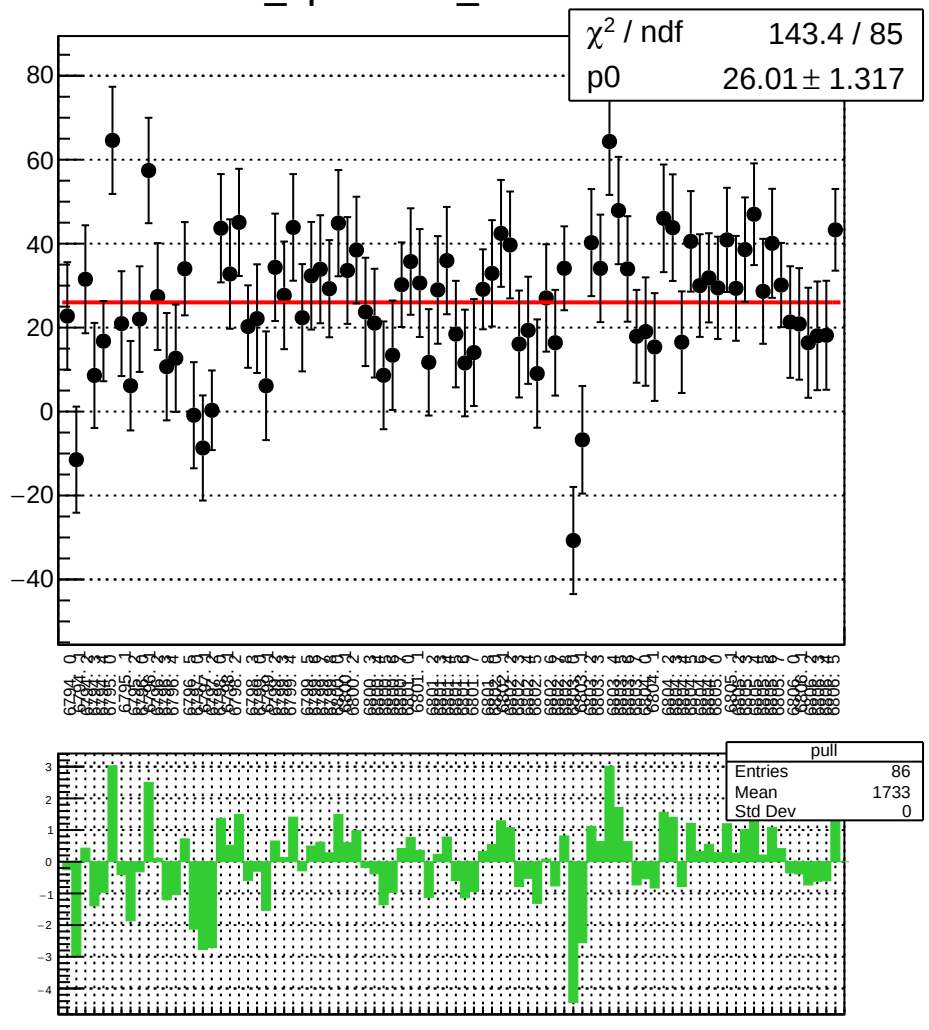

pull1D
Entries 86
Mean −0.02497
Std Dev 1.174

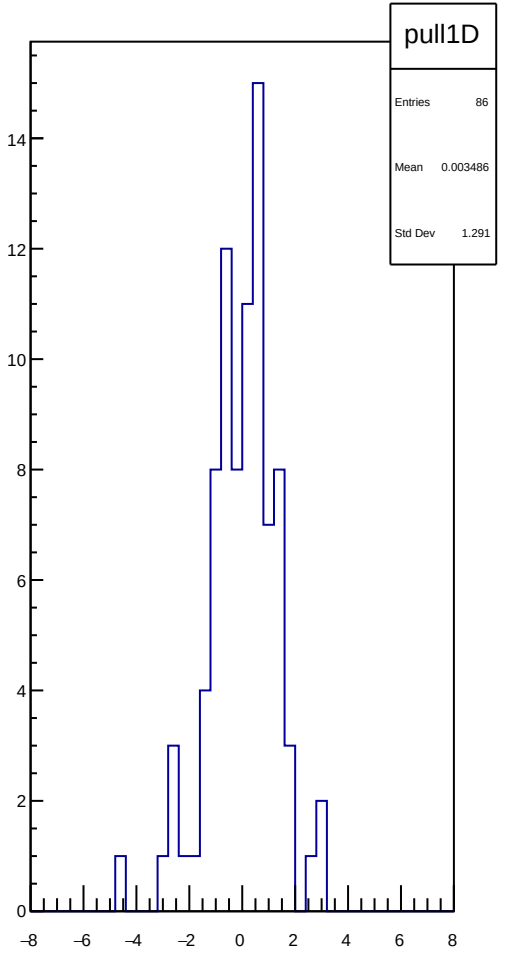

diff_bpm2i02Y_rms vs run
χ² / ndf 510.5 / 85
p0 914.6 ± 0.7053
1020
1000
980
960
940
920
900
880

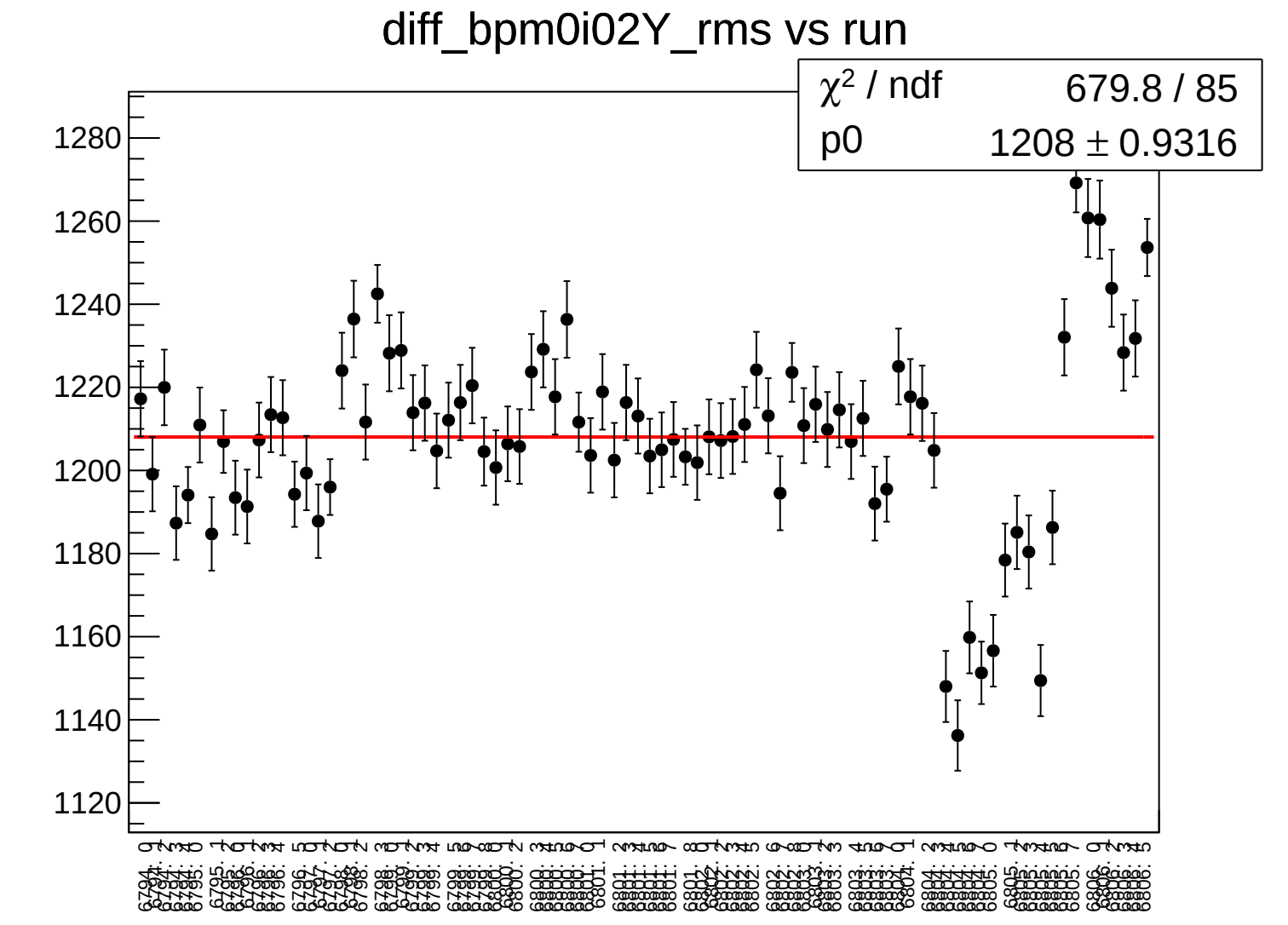

diff_bpm0i02X_mean vs run
χ² / ndf 119.4 / 85
p0 −45.54 ± 1.8
pull
Entries 86
Mean −146
Std Dev 0

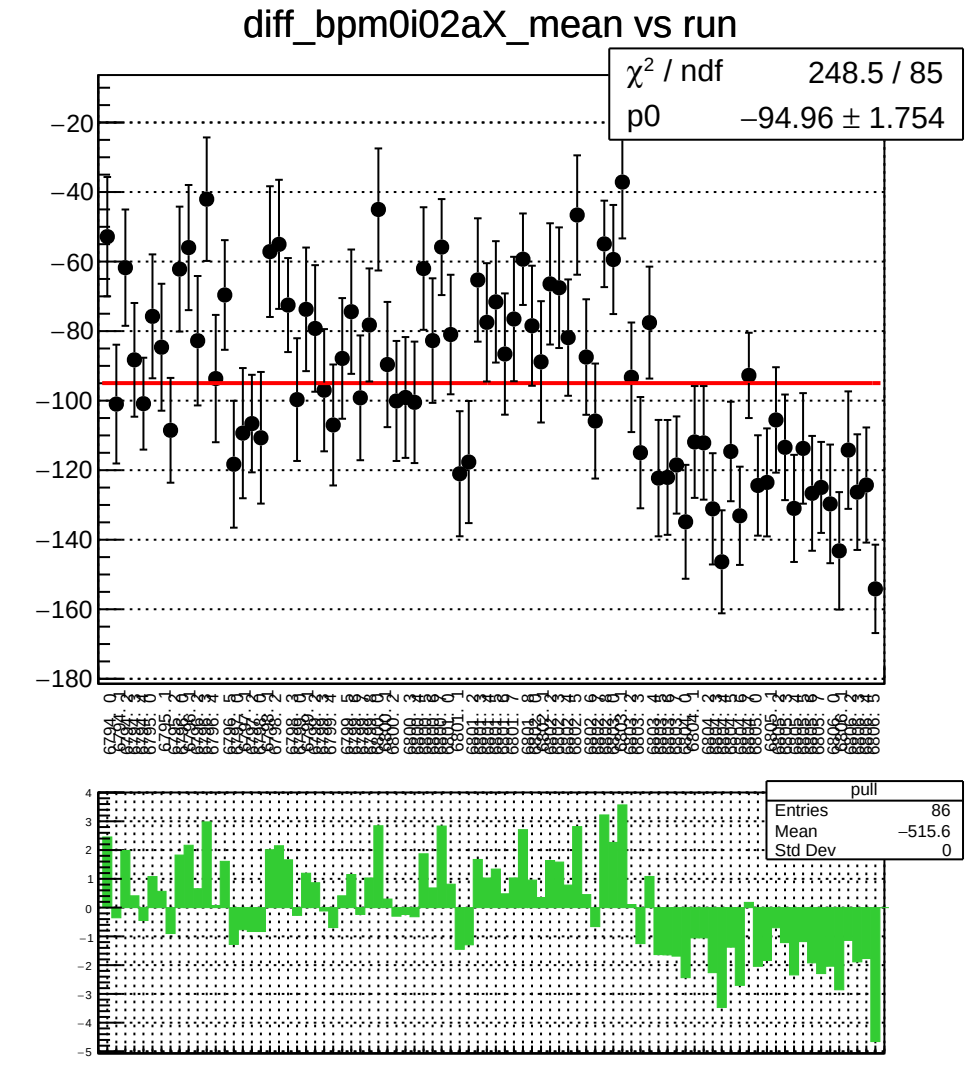

pull1D
Entries 86
Mean 0.03025
Std Dev 1.178

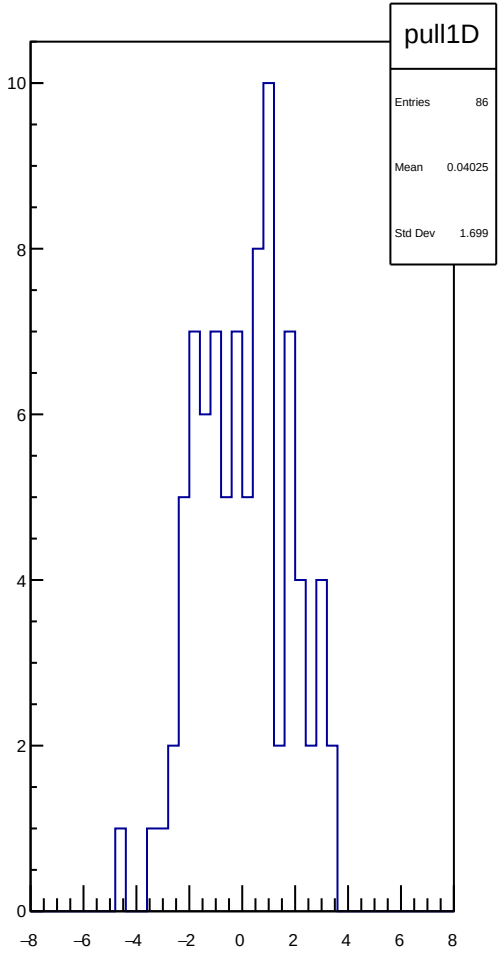

diff_bpm0i02X_rms vs run
χ² / ndf 2.529e+04 / 85
p0 1638 ± 1.273
2000
1900
1800
1700
1600
1500
1400
1300
1200

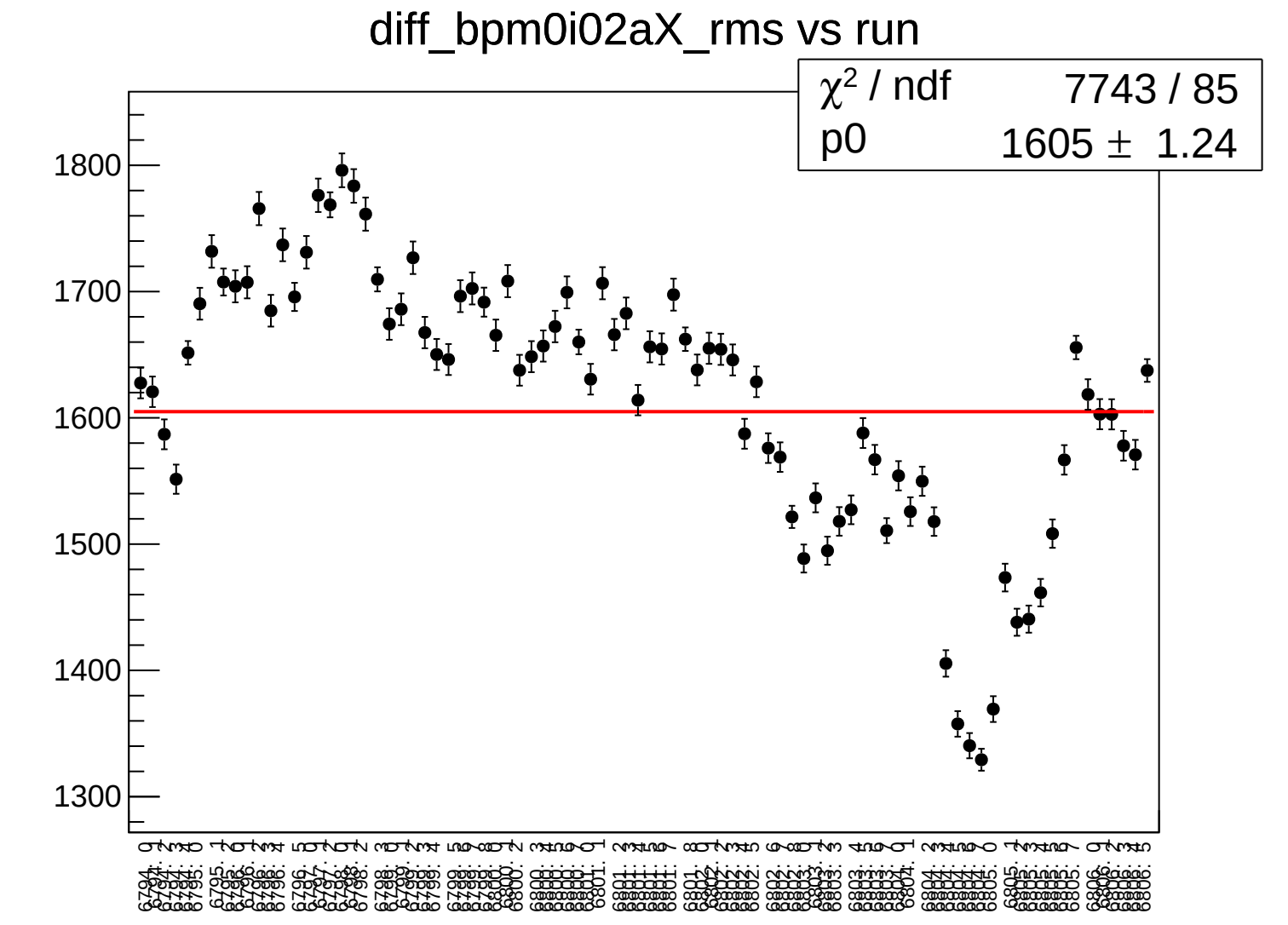

diff_bpm0i02Y_mean vs run
χ² / ndf 143.4 / 85
p0 26.01 ± 1.317
pull
Entries 86
Mean 1733
Std Dev 0

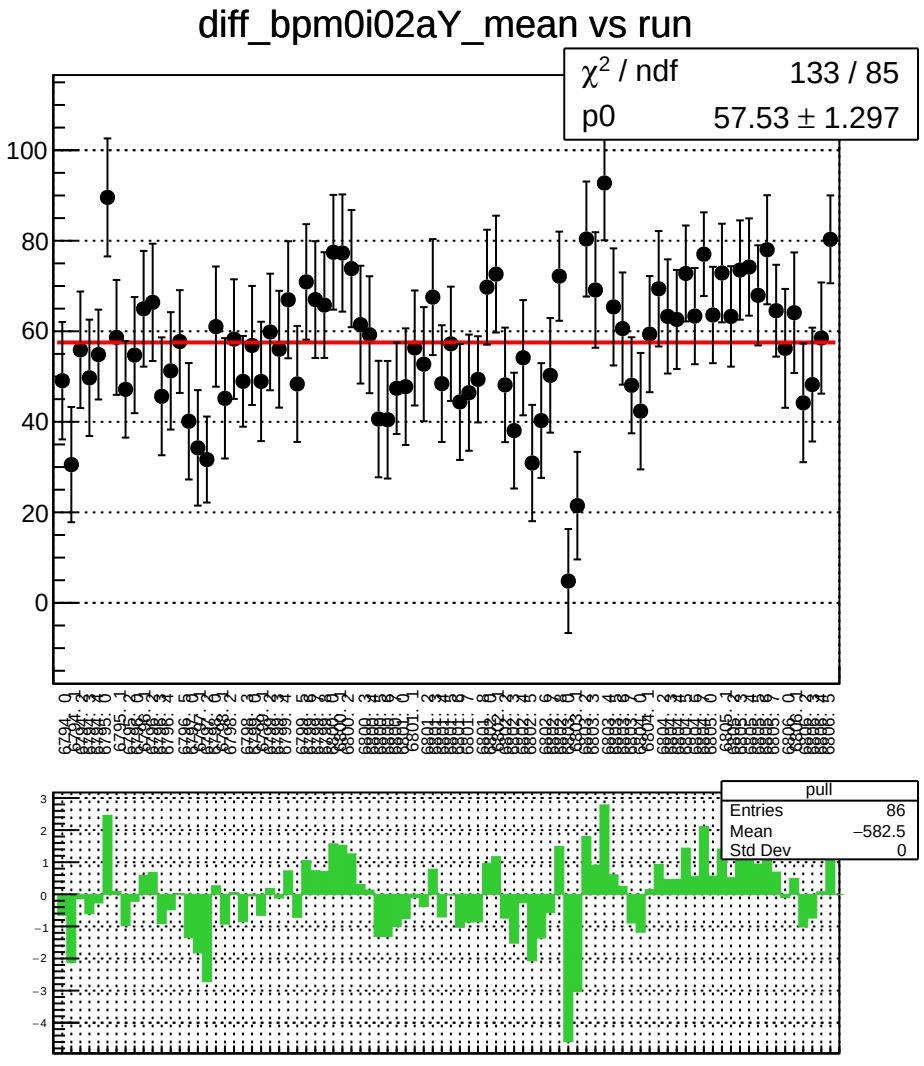

pull1D
Entries 86
Mean 0.003486
Std Dev 1.291

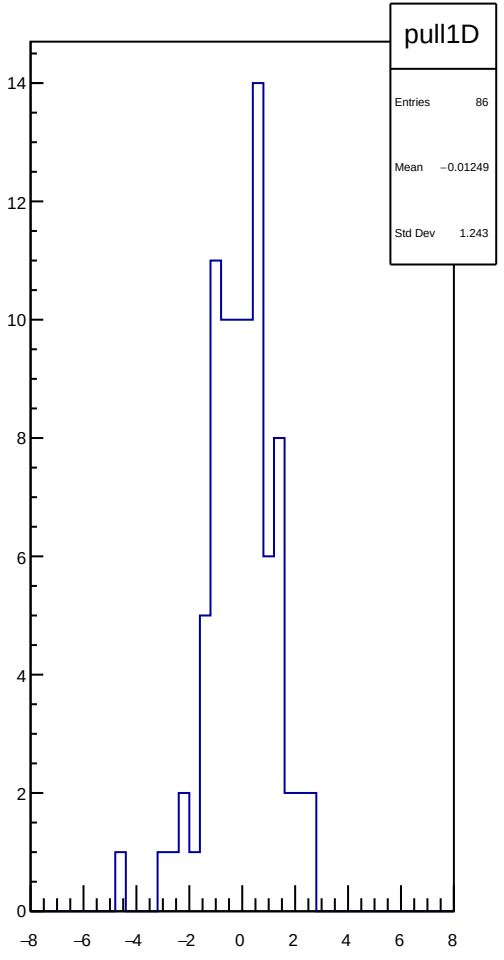

diff_bpm0i02Y_rms vs run
χ^2 / ndf 679.8 / 85
p0 1208 ± 0.9316
1280
1260
1240
1220
1200
1180
1160
1140
1120

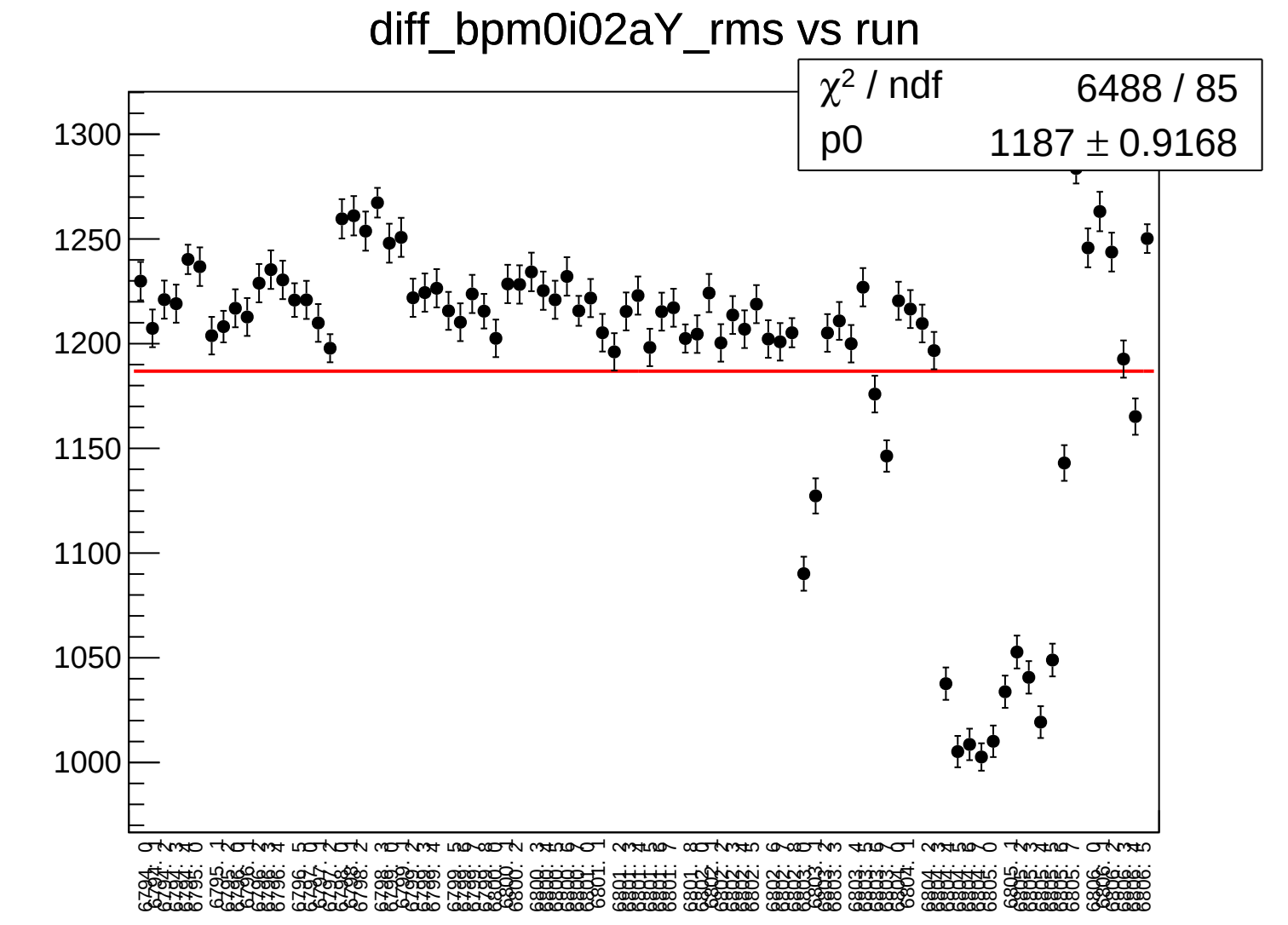

diff_bpm0i02aX_mean vs run
χ² / ndf 248.5 / 85
p0 −94.96 ± 1.754
pull
Entries 86
Mean −515.6
Std Dev 0

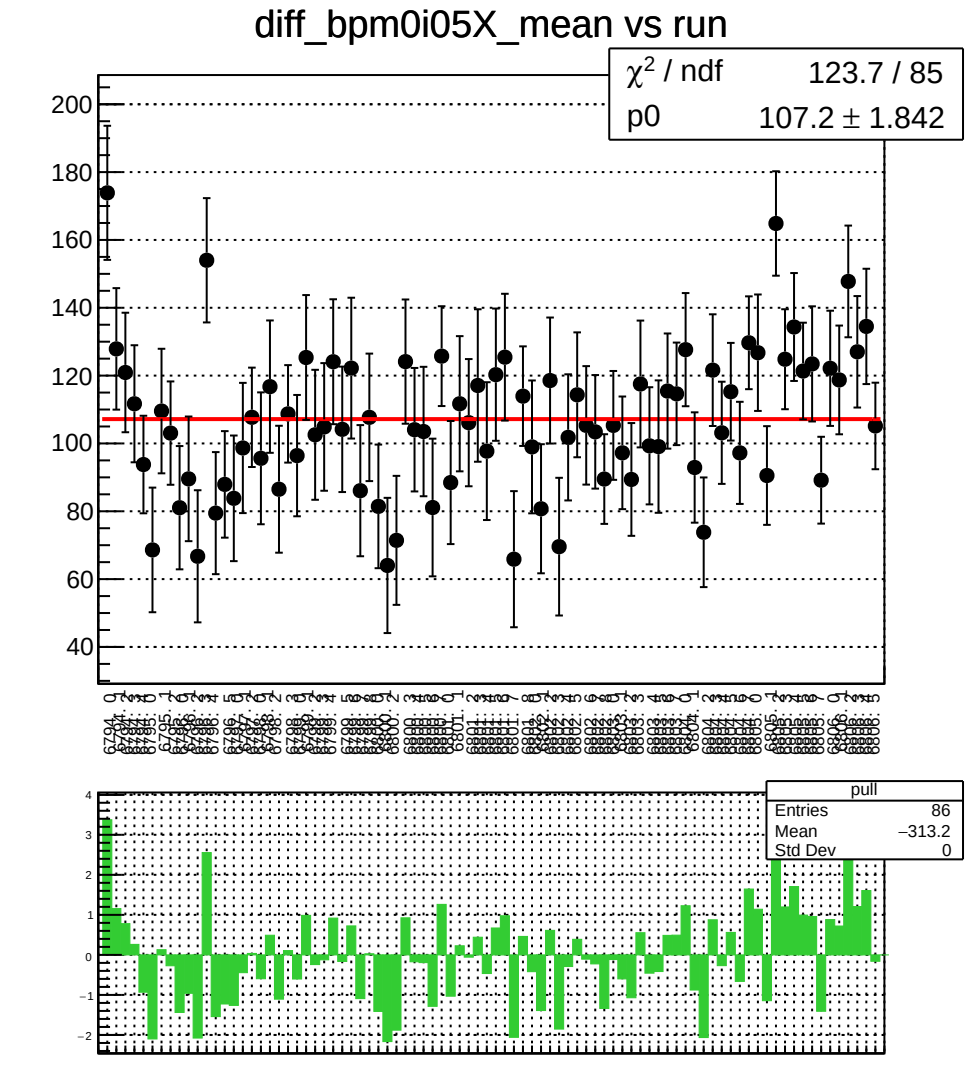

pull1D
Entries 86
Mean 0.04025
Std Dev 1.699

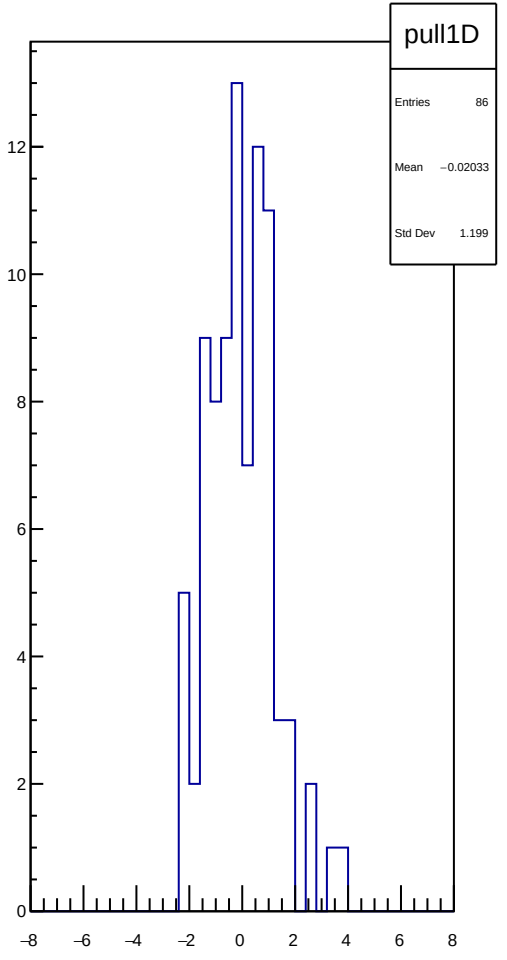

diff_bpm0i02aX_rms vs run
χ² / ndf 7743 / 85
p0 1605 ± 1.24
1800
1700
1600
1500
1400
1300

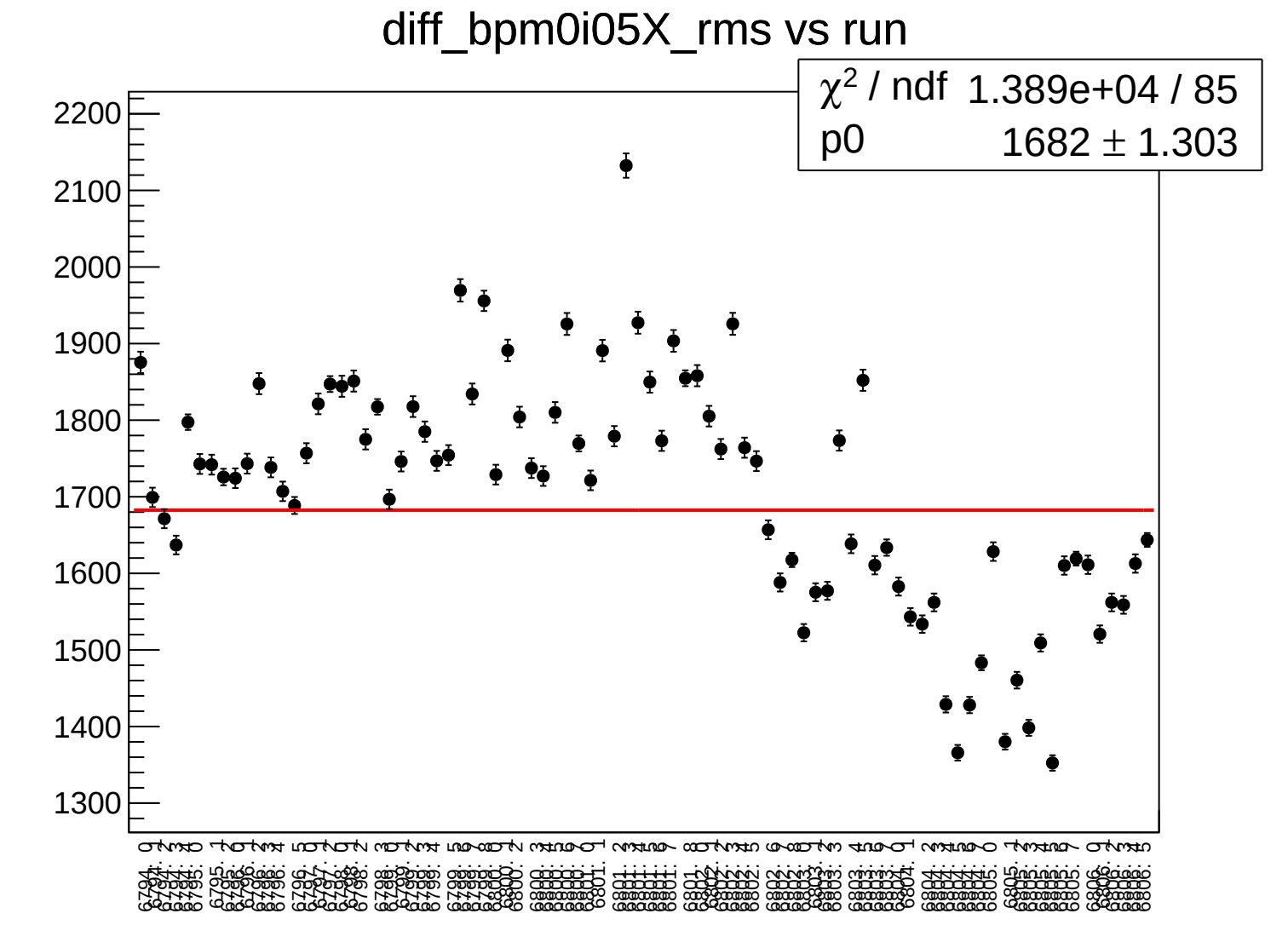

diff_bpm0i02aY_mean vs run
χ^2 / ndf 133 / 85
p0 57.53 ± 1.297
pull
Entries 86
Mean −582.5
Std Dev 0

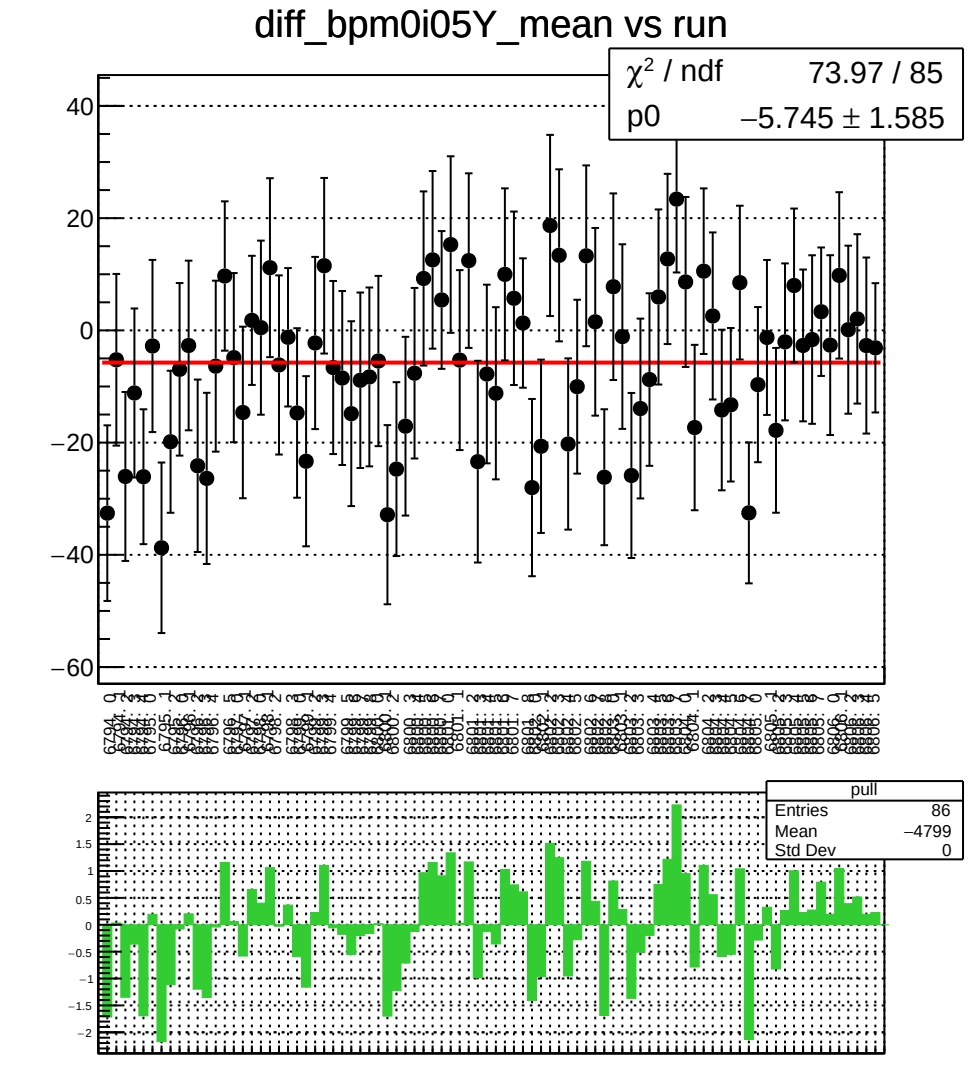

pull1D
Entries 86
Mean −0.01249
Std Dev 1.243

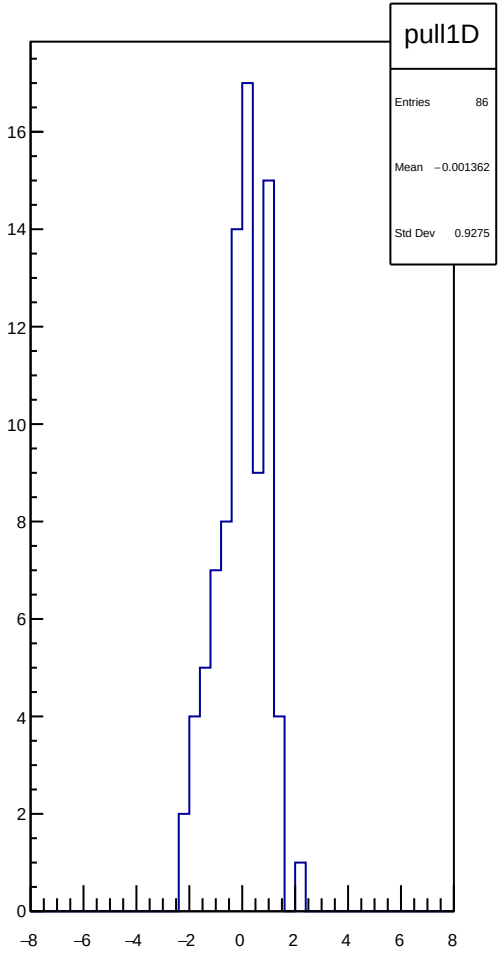

diff_bpm0i02aY_rms vs run
χ² / ndf 6488 / 85
p0 1187 ± 0.9168
1300
1250
1200
1150
1100
1050
1000

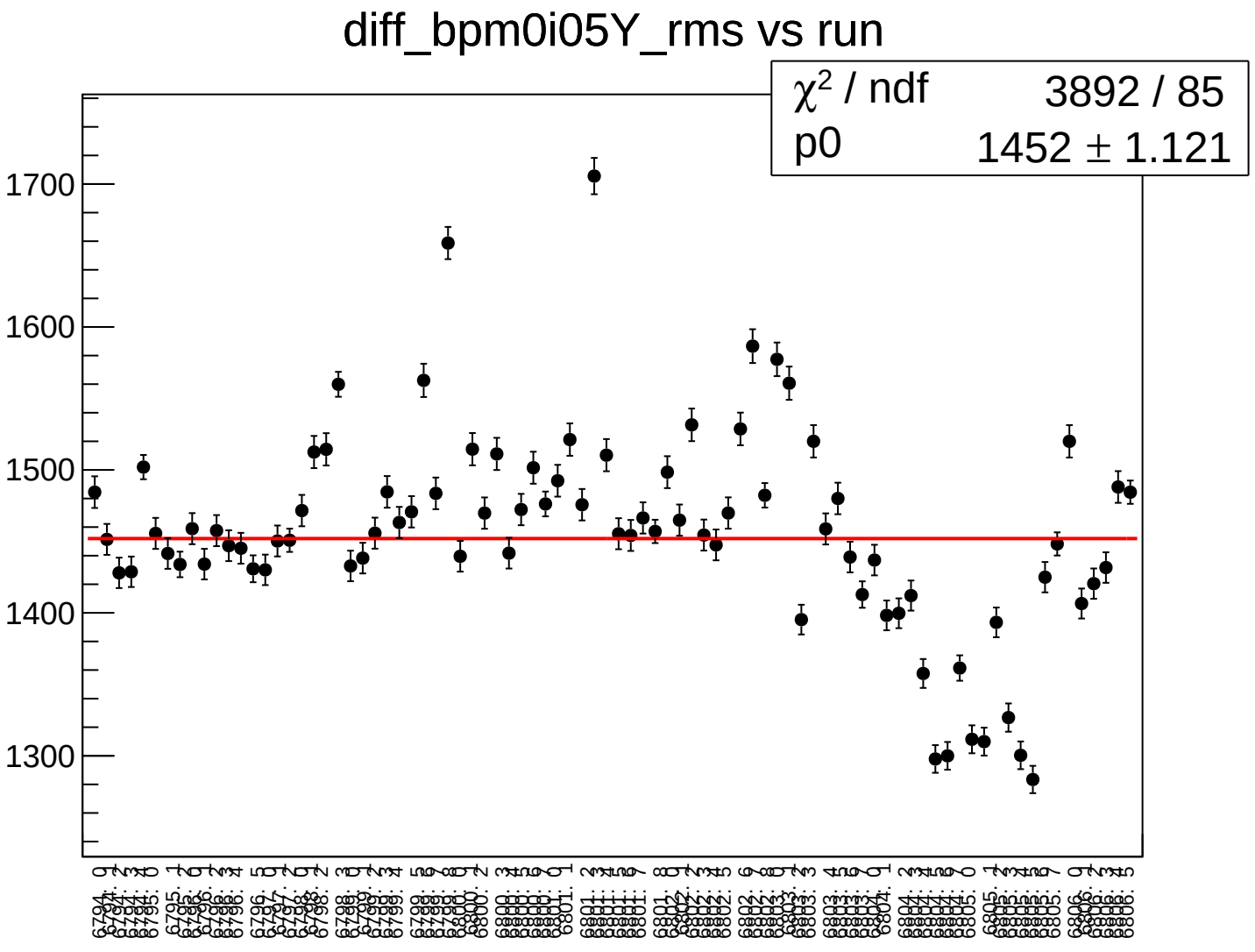

diff_bpm0i05X_mean vs run
χ² / ndf 123.7 / 85
p0 107.2 ± 1.842
pull
Entries 86
Mean −313.2
Std Dev 0

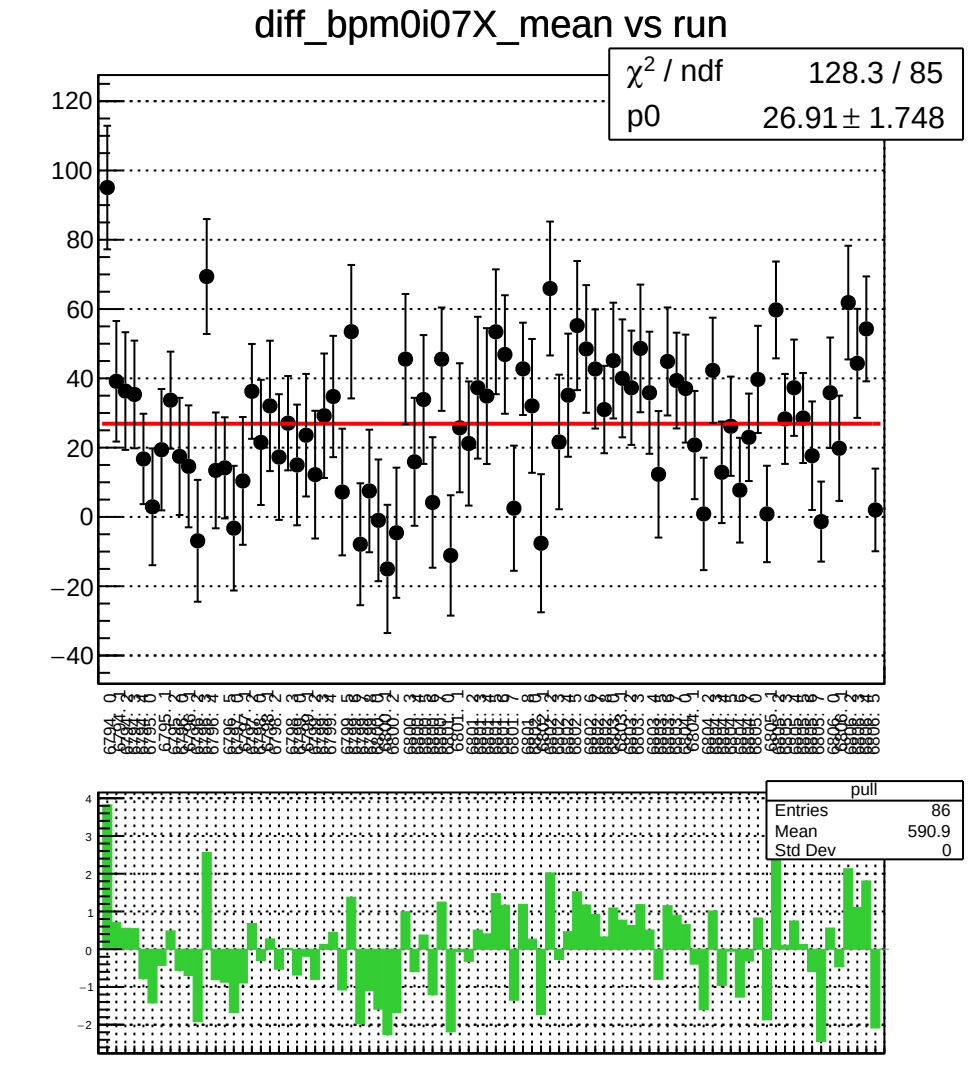

pull1D
Entries 86
Mean −0.02033
Std Dev 1.199

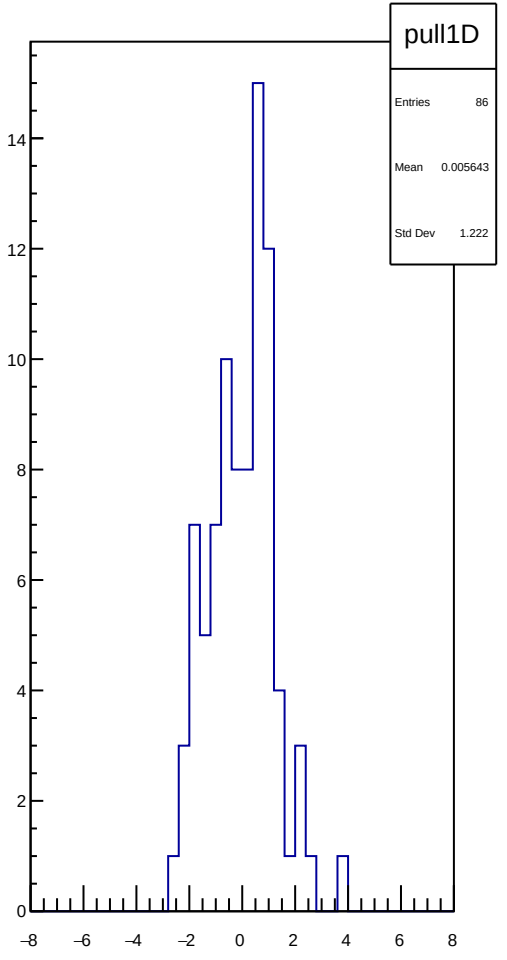

diff_bpm0i05X_rms vs run
χ² / ndf 1.389e+04 / 85
p0 1682 ± 1.303
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

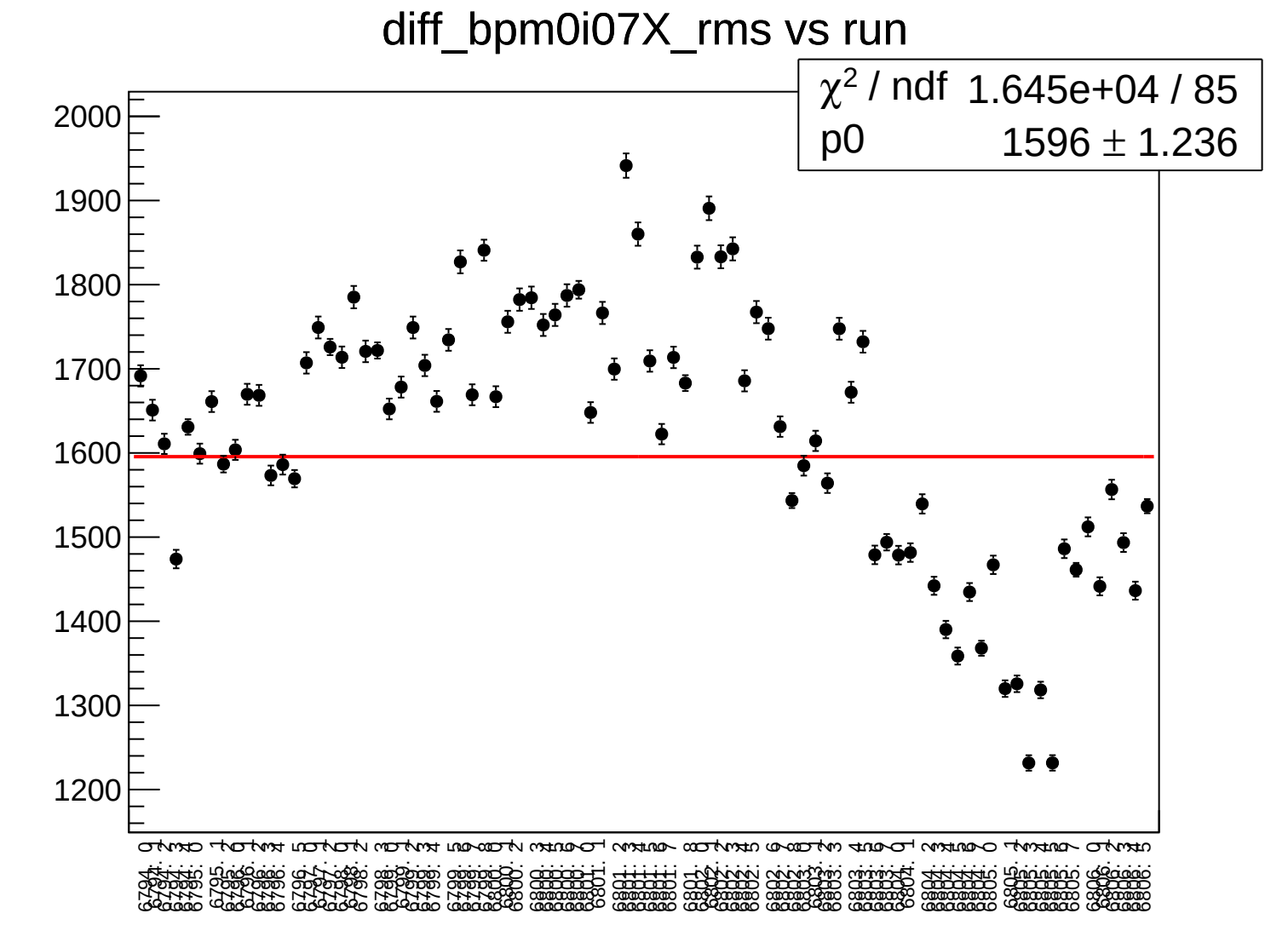

diff_bpm0i05Y_mean vs run
χ² / ndf 73.97 / 85
p0 −5.745 ± 1.585
pull
Entries 86
Mean −4799
Std Dev 0

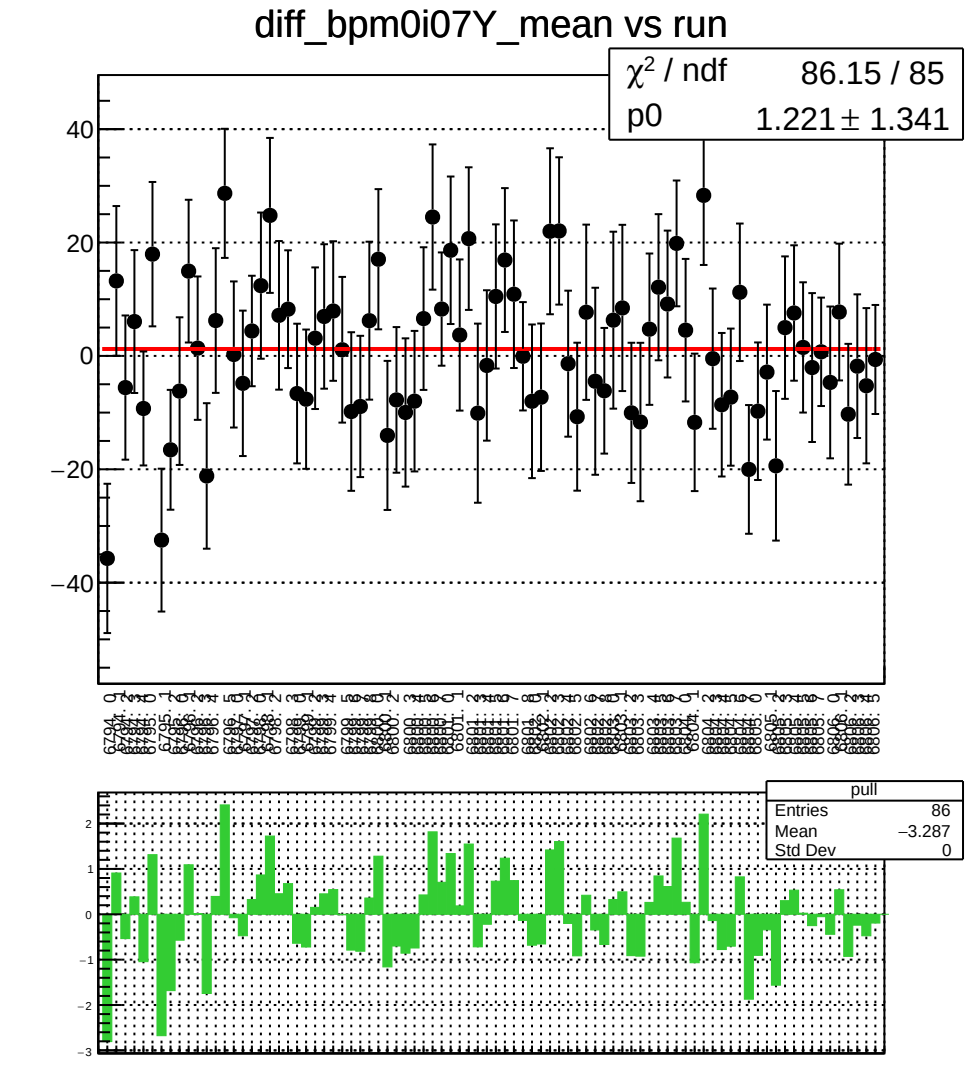

pull1D
Entries 86
Mean −0.001362
Std Dev 0.9275

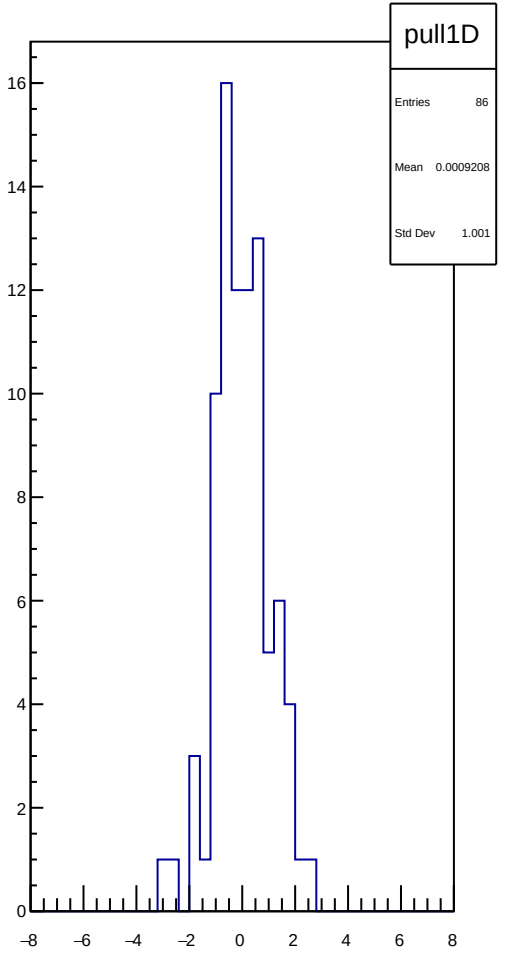

diff_bpm0i05Y_rms vs run
χ² / ndf 3892 / 85
p0 1452 ± 1.121
1700
1600
1500
1400
1300

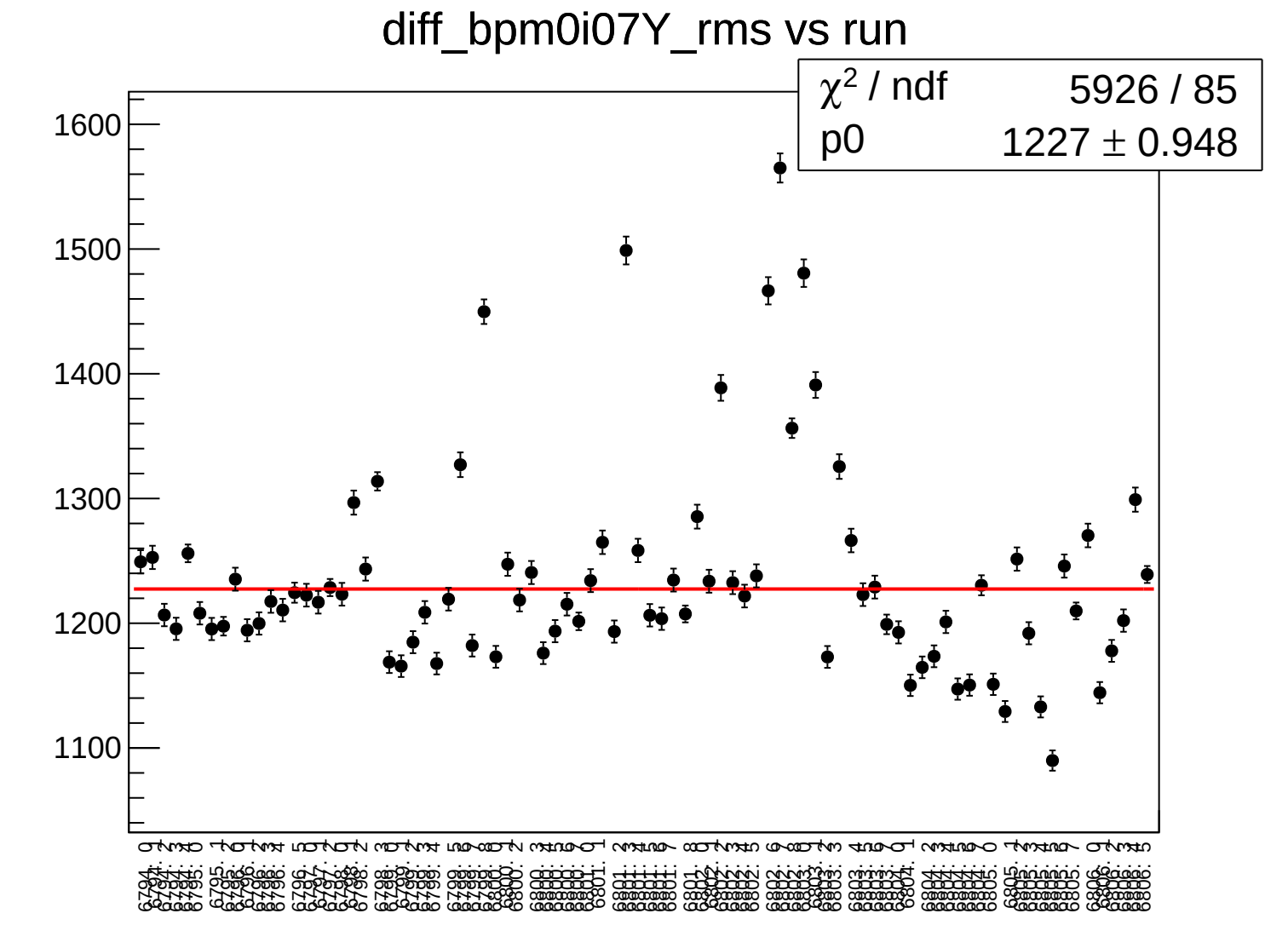

diff_bpm0i07X_mean vs run
χ² / ndf 128.3 / 85
p0 26.91 ± 1.748
pull
Entries 86
Mean 590.9
Std Dev 0

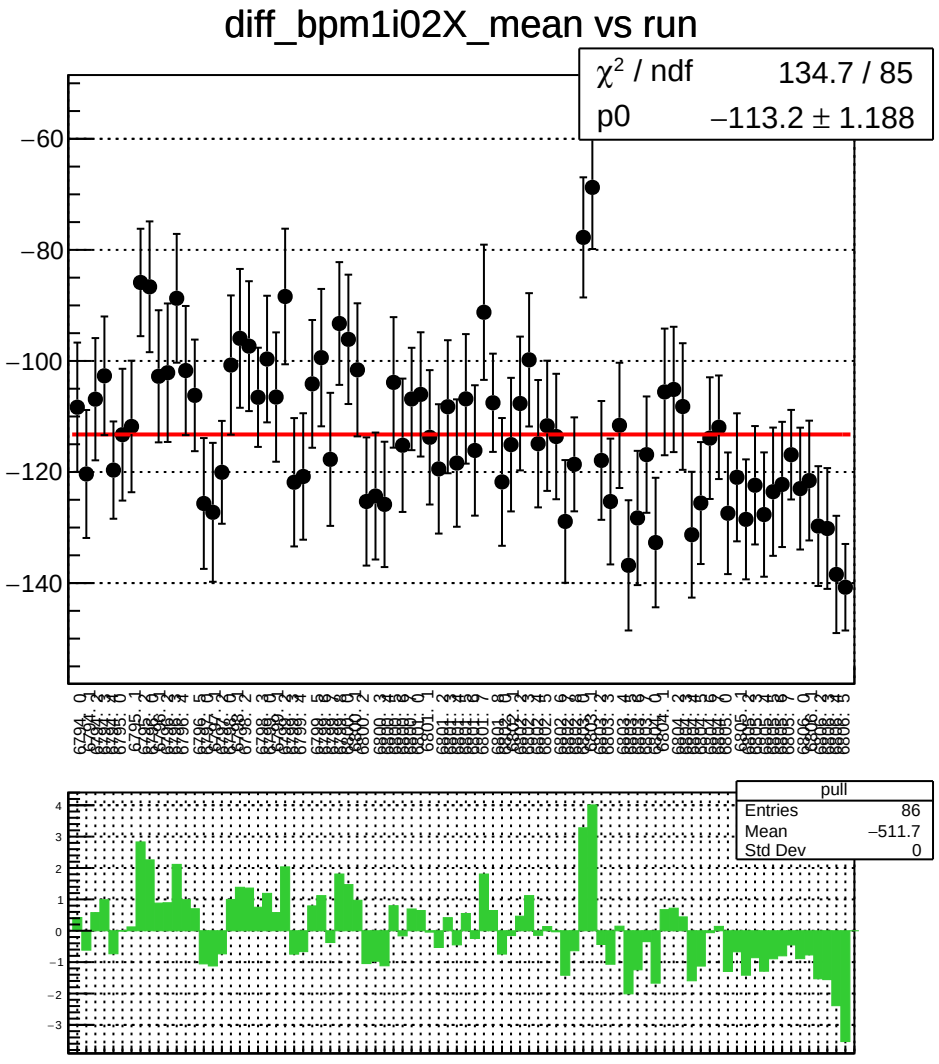

pull1D
Entries 86
Mean 0.005643
Std Dev 1.222

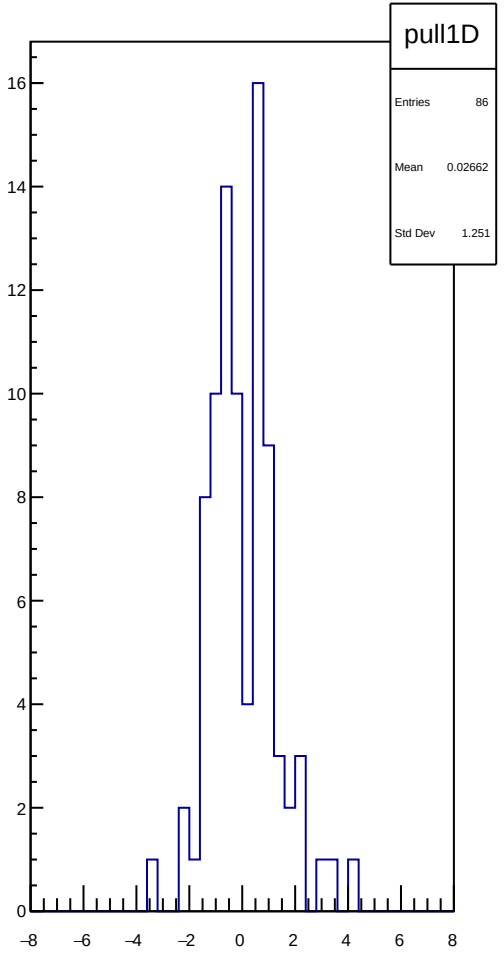

diff_bpm0i07X_rms vs run
χ² / ndf 1.645e+04 / 85
p0 1596 ± 1.236
2000
1900
1800
1700
1600
1500
1400
1300
1200

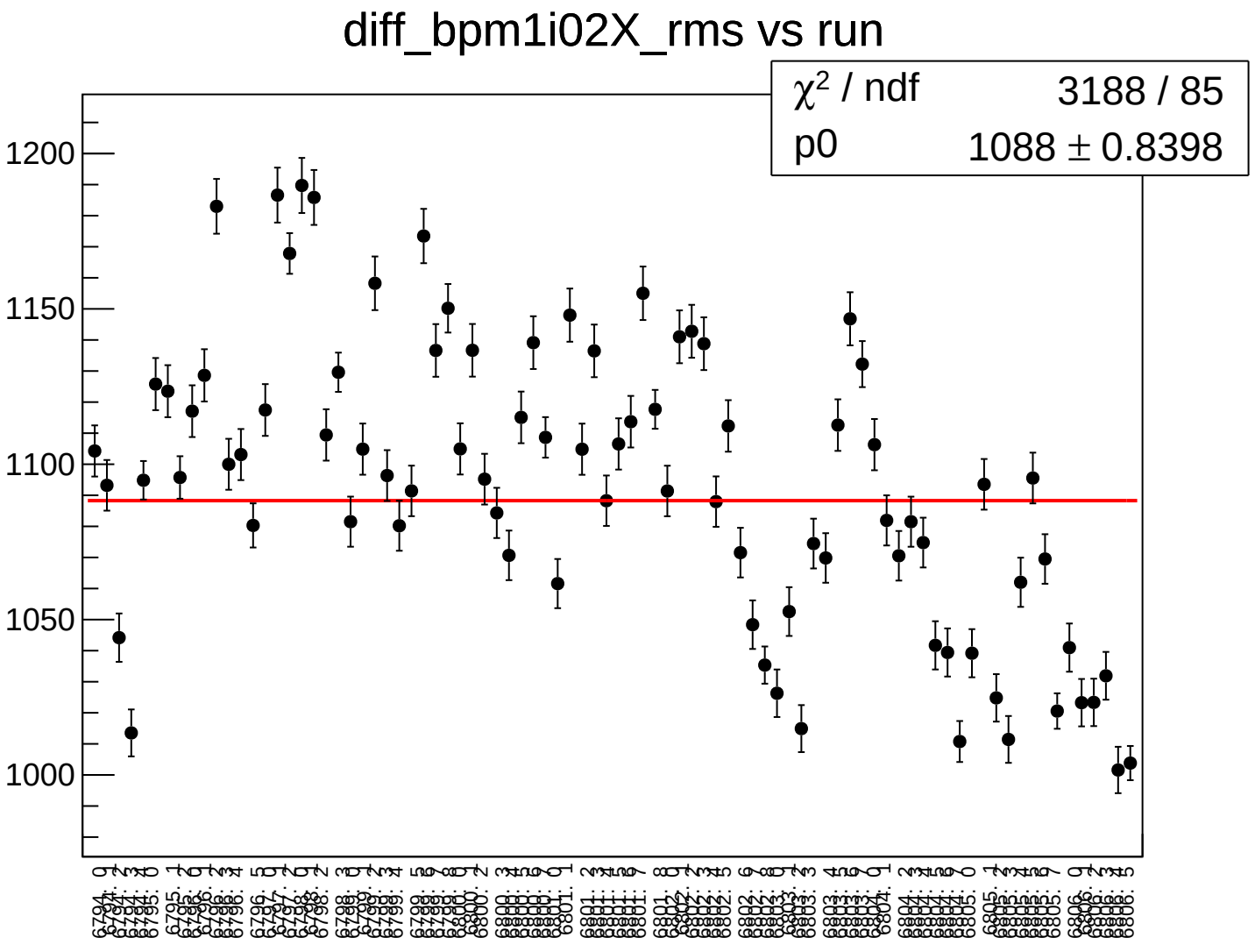

diff_bpm0i07Y_mean vs run
χ^2 / ndf 86.15 / 85
p0 1.221 ± 1.341
pull
Entries 86
Mean −3.287
Std Dev 0

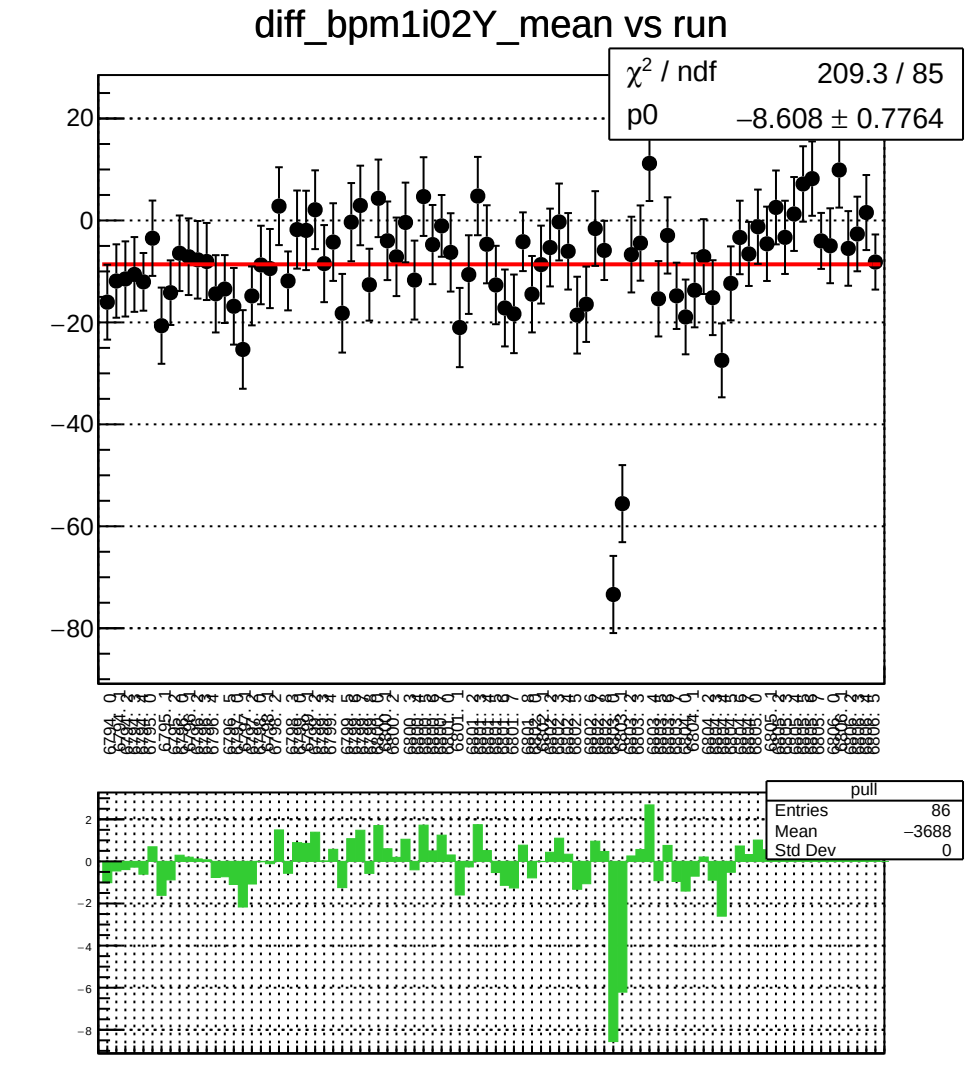

pull1D
Entries 86
Mean 0.0009208
Std Dev 1.001

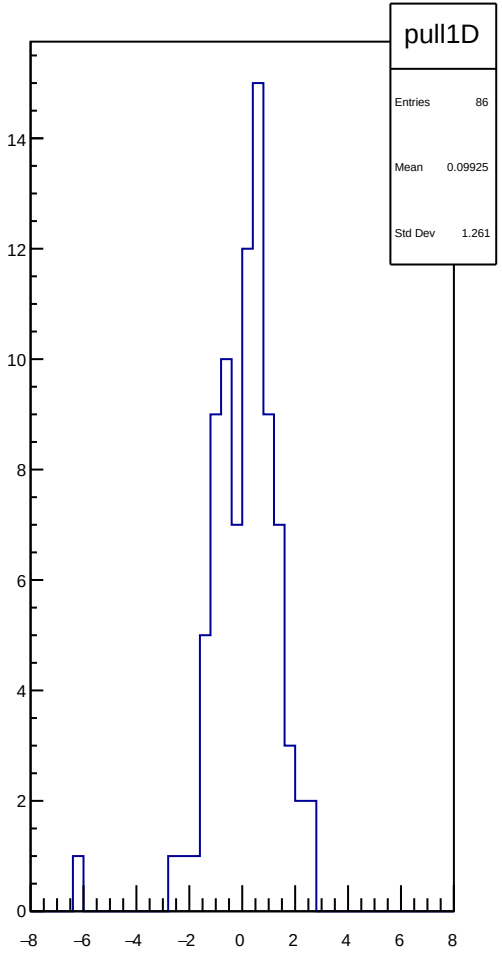

diff_bpm0i07Y_rms vs run
χ² / ndf 5926 / 85
p0 1227 ± 0.948
1600
1500
1400
1300
1200
1100

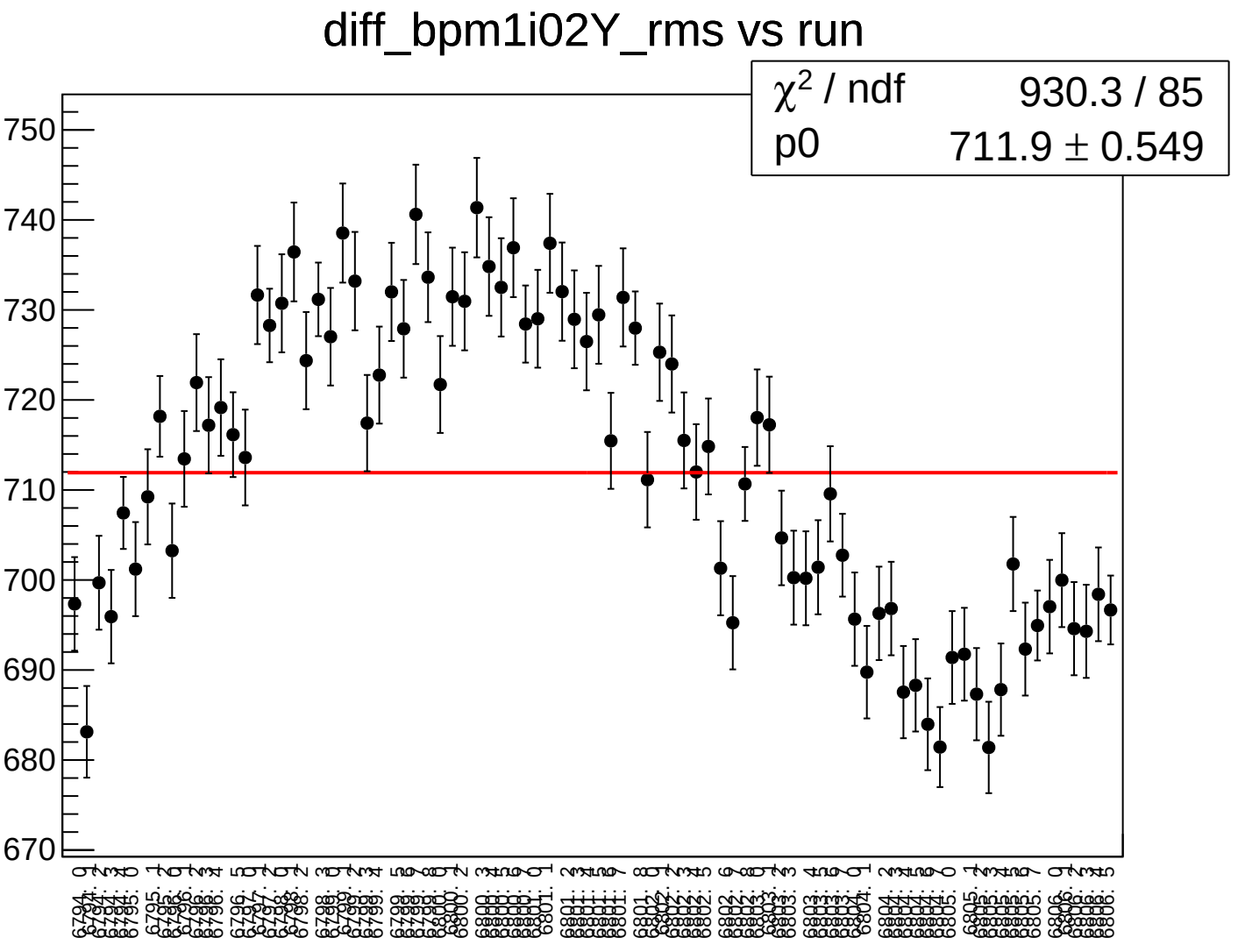

diff_bpm1i02X_mean vs run
χ² / ndf 134.7 / 85
p0 −113.2 ± 1.188
−60
−80
−100
−120
−140
pull
Entries 86
Mean −511.7
Std Dev 0
4
3
2
1
0
−1
−2
−3

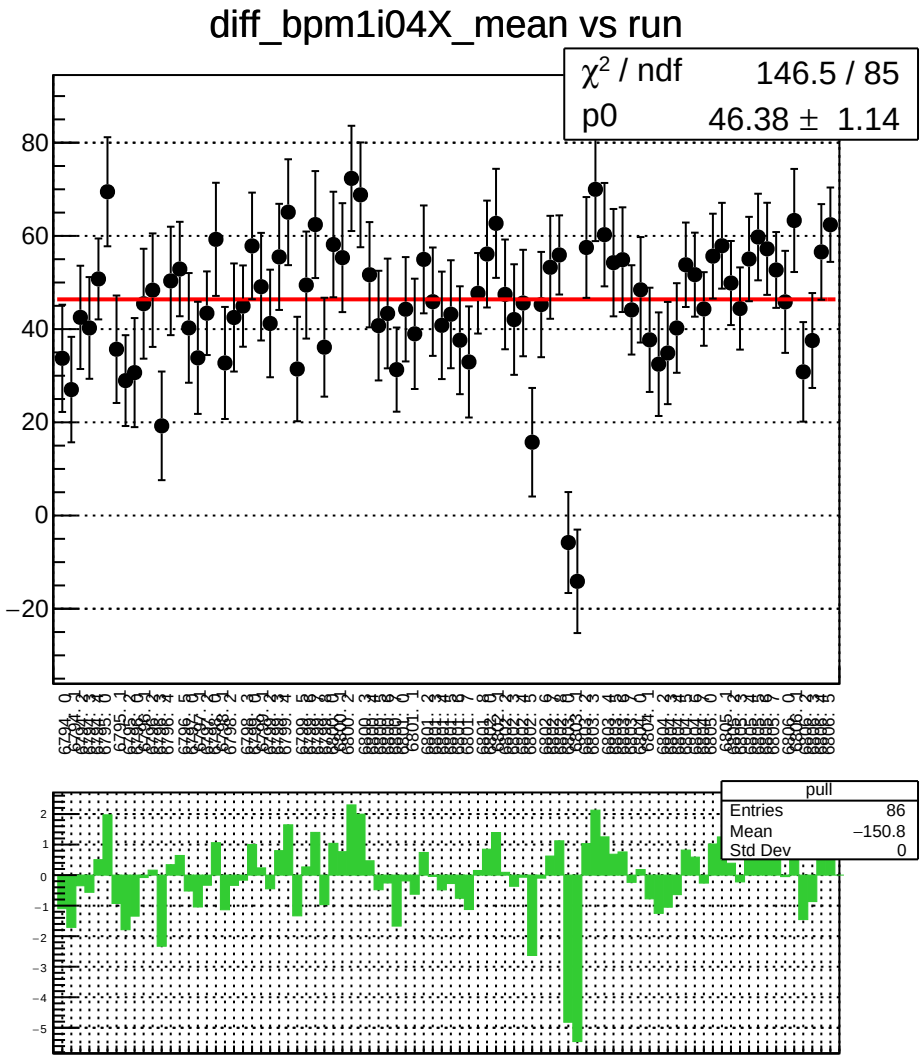

pull1D
Entries 86
Mean 0.02662
Std Dev 1.251
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

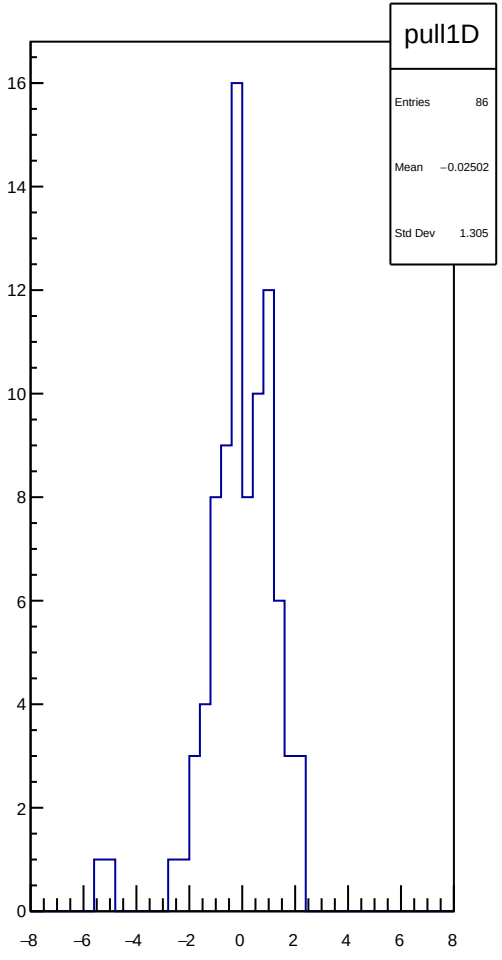

diff_bpm1i02X_rms vs run
χ² / ndf 3188 / 85
p0 1088 ± 0.8398
1200
1150
1100
1050
1000

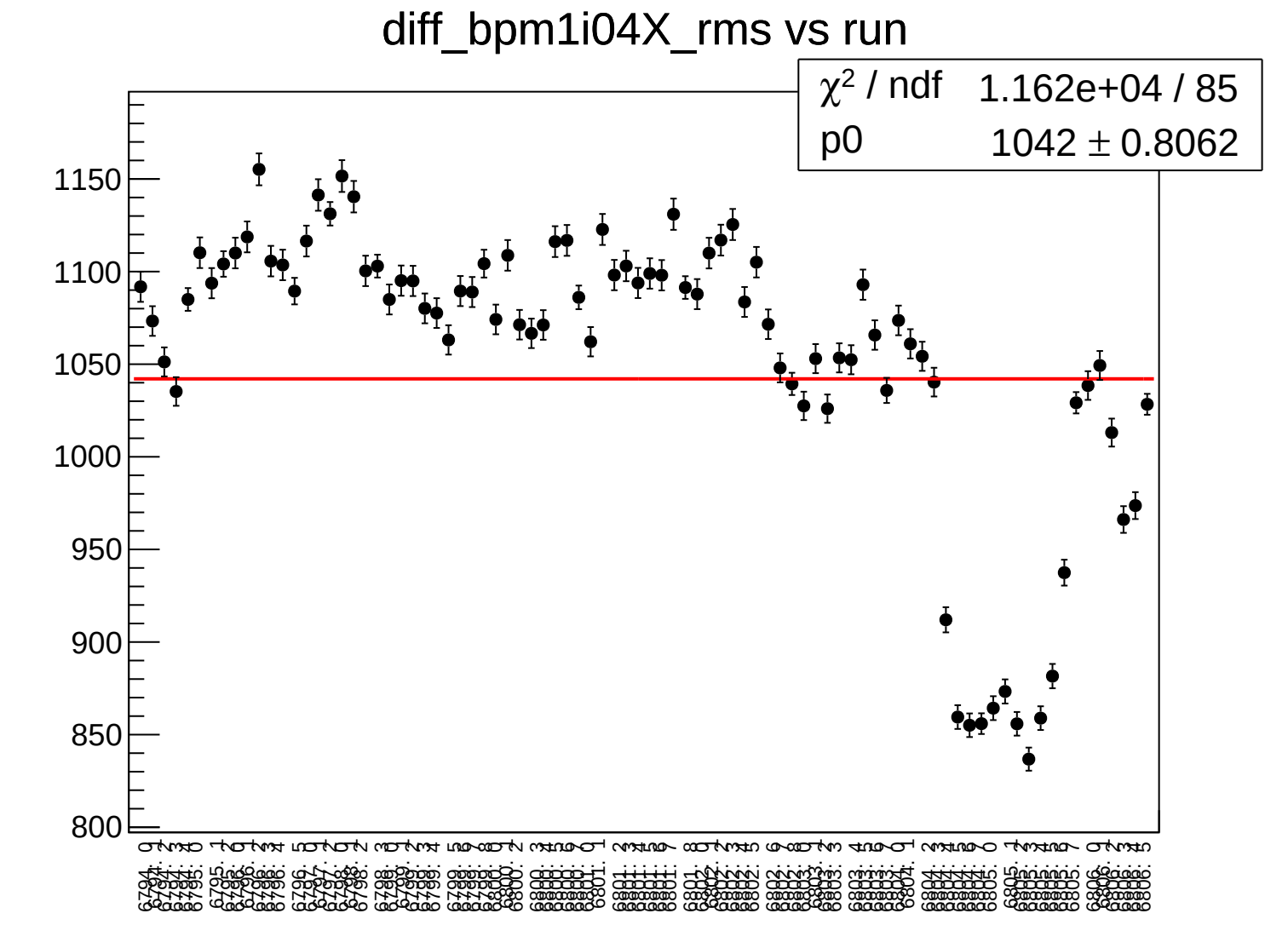

diff_bpm1i02Y_mean vs run
χ² / ndf 209.3 / 85
p0 −8.608 ± 0.7764
pull
Entries 86
Mean −3688
Std Dev 0

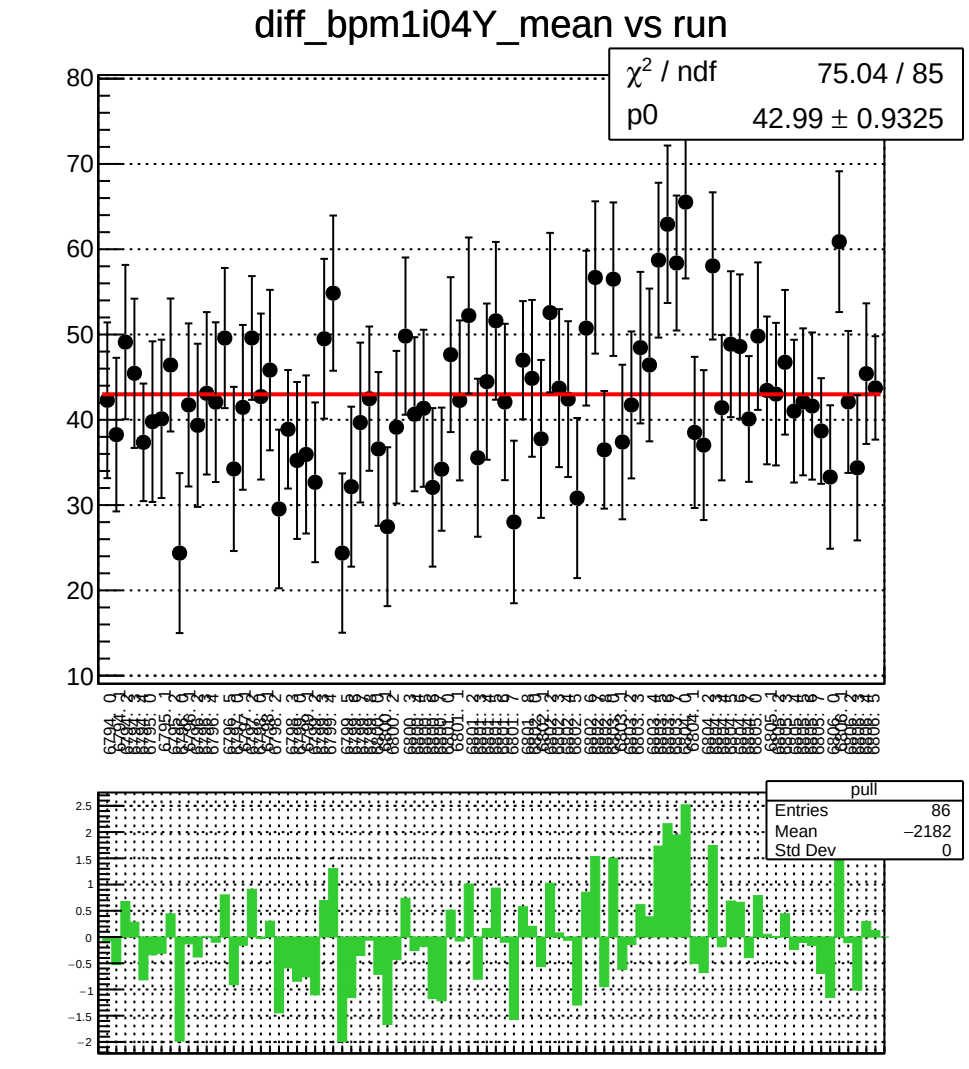

pull1D
Entries 86
Mean 0.09925
Std Dev 1.261

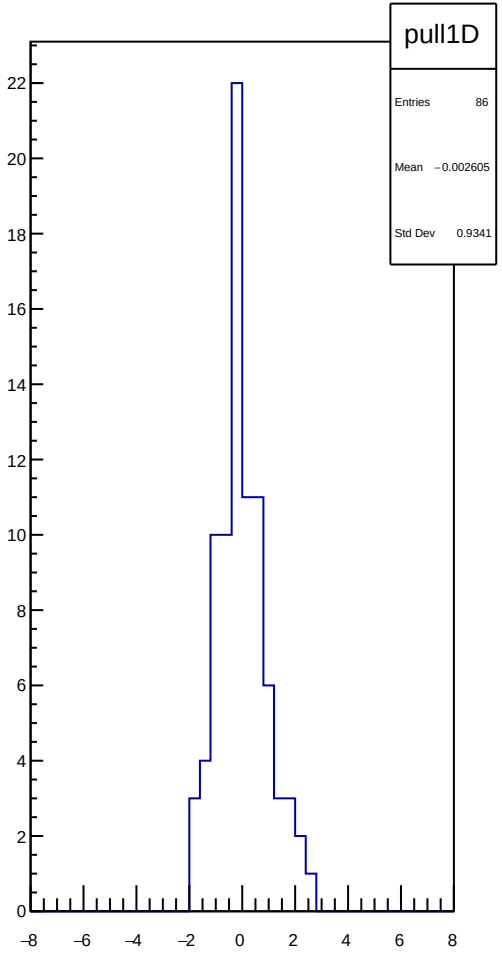

diff_bpm1i02Y_rms vs run
χ^2 / ndf 930.3 / 85
p0 711.9 ± 0.549
750
740
730
720
710
700
690
680
670

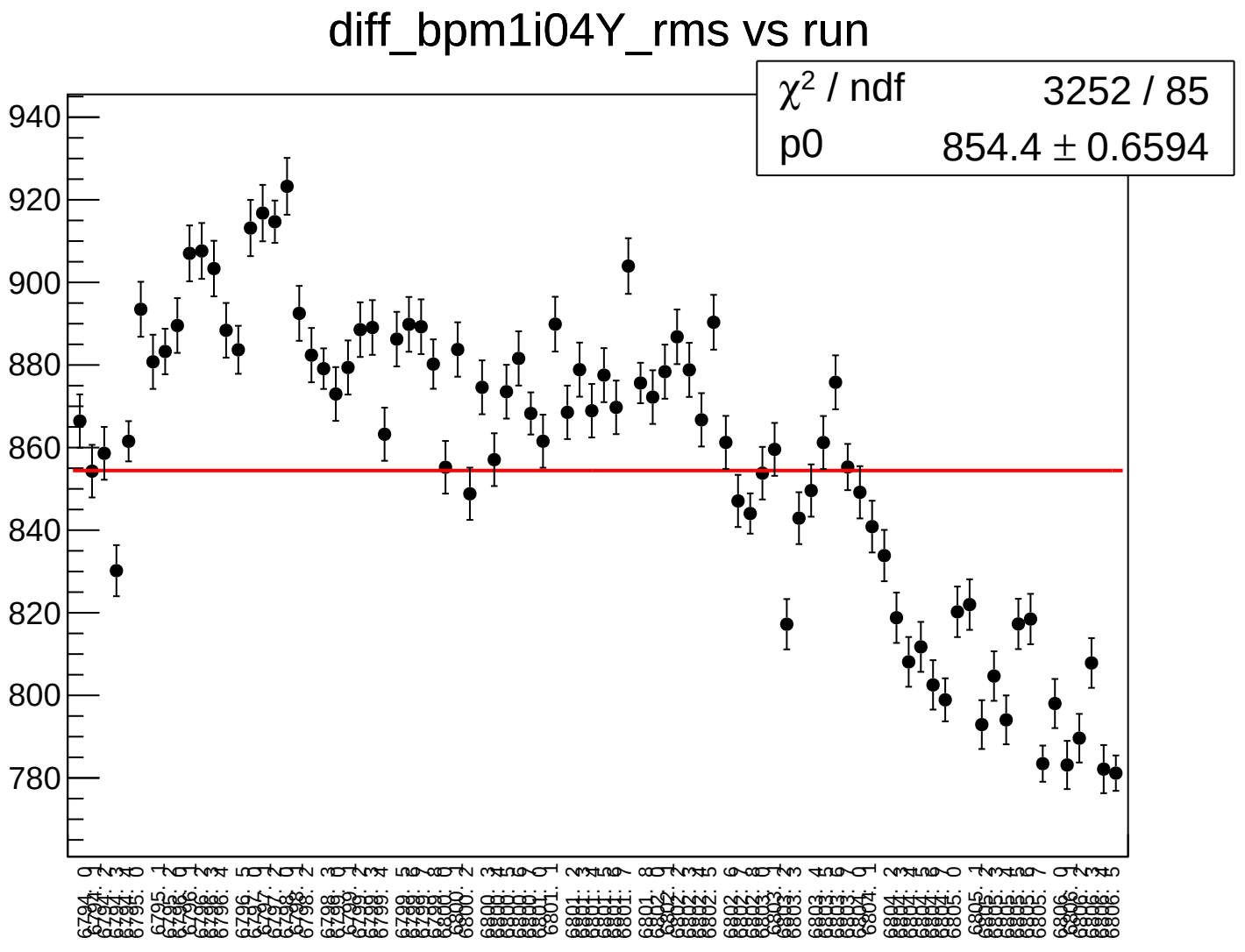

diff_bpm1i04X_mean vs run
χ² / ndf 146.5 / 85
p0 46.38 ± 1.14
pull
Entries 86
Mean −150.8
Std Dev 0

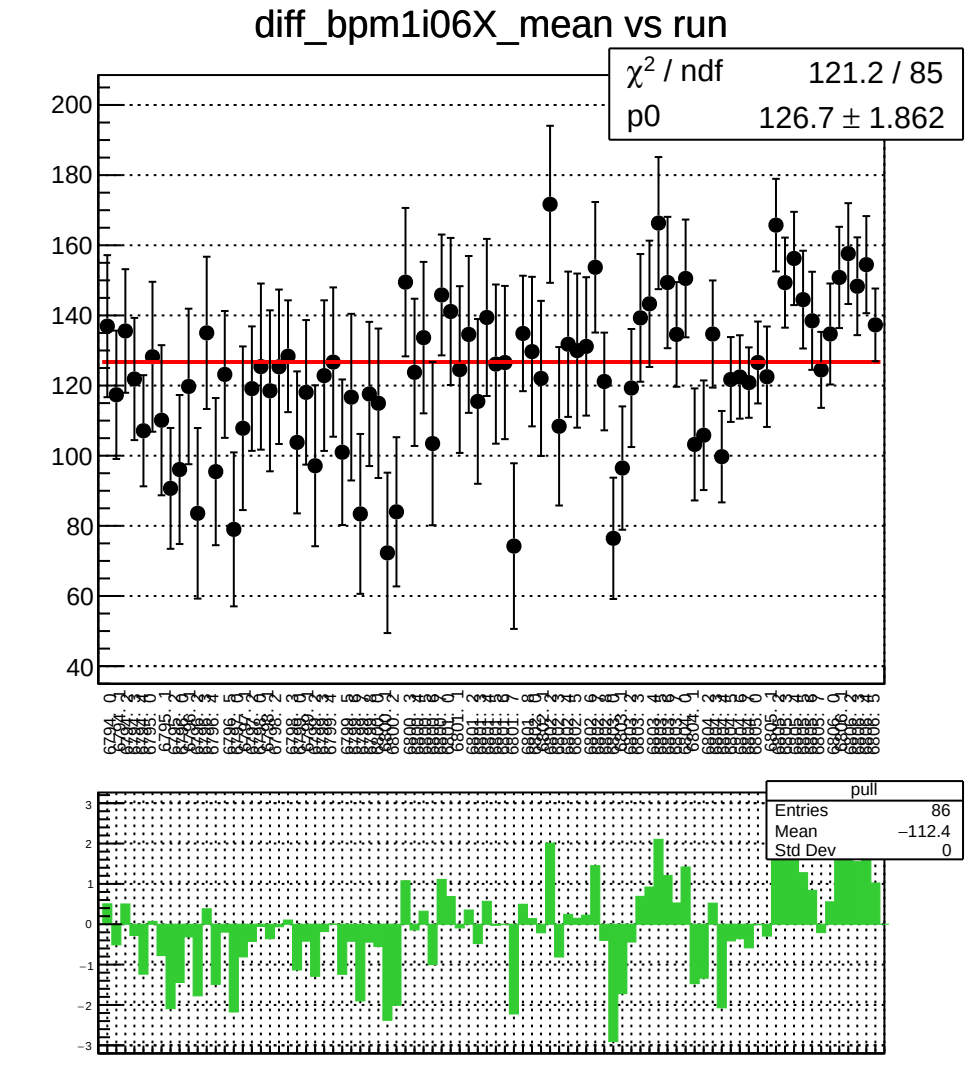

pull1D
Entries 86
Mean −0.02502
Std Dev 1.305

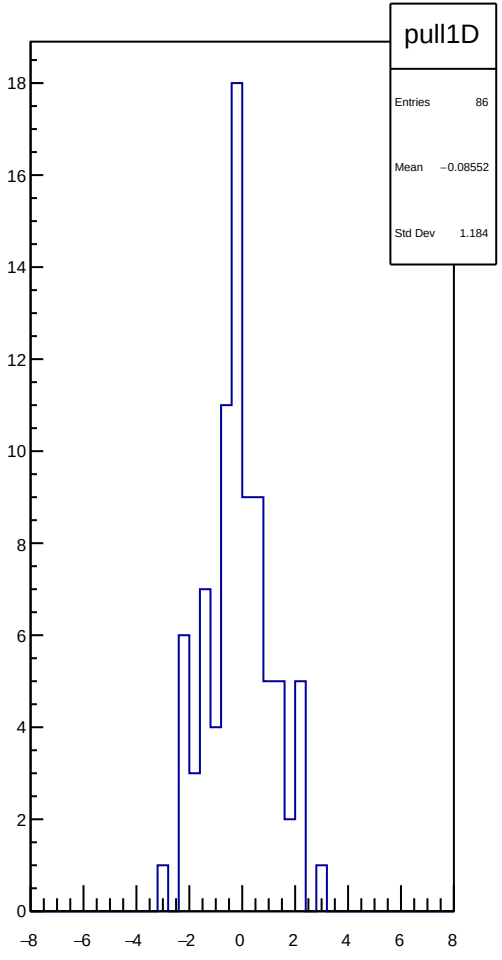

diff_bpm1i04X_rms vs run
χ² / ndf 1.162e+04 / 85
p0 1042 ± 0.8062
1150
1100
1050
1000
950
900
850
800

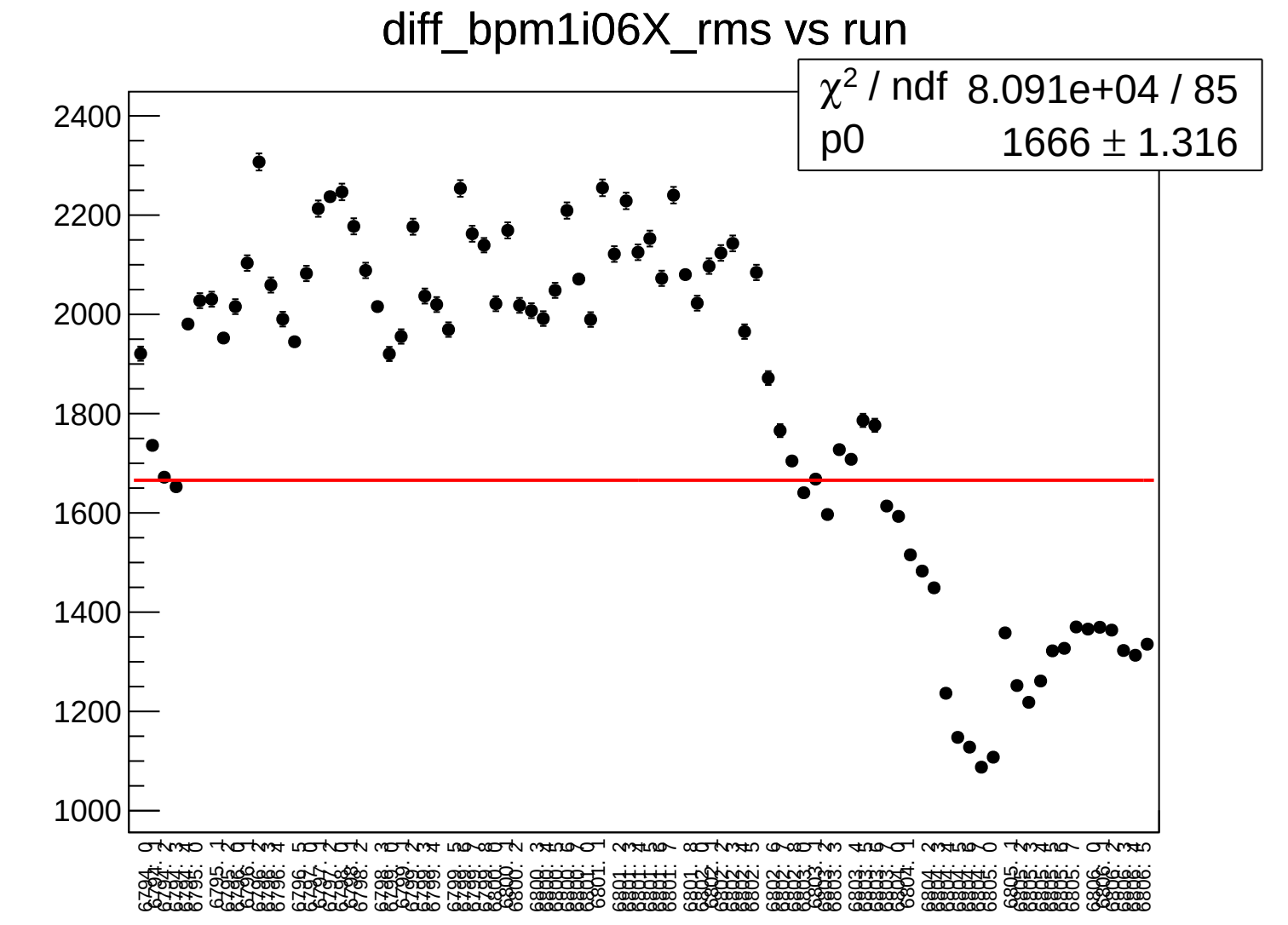

diff_bpm1i04Y_mean vs run
χ² / ndf 75.04 / 85
p0 42.99 ± 0.9325
pull
Entries 86
Mean −2182
Std Dev 0

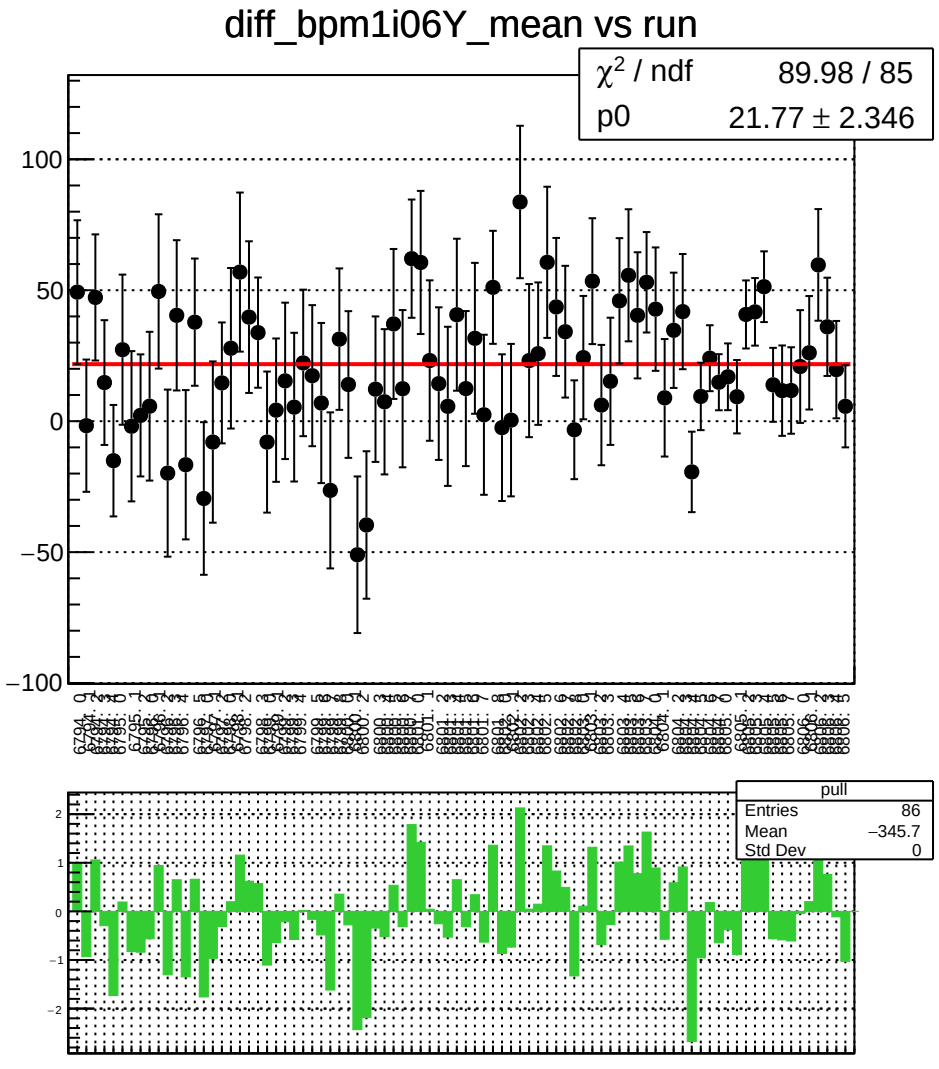

pull1D
Entries 86
Mean −0.002605
Std Dev 0.9341

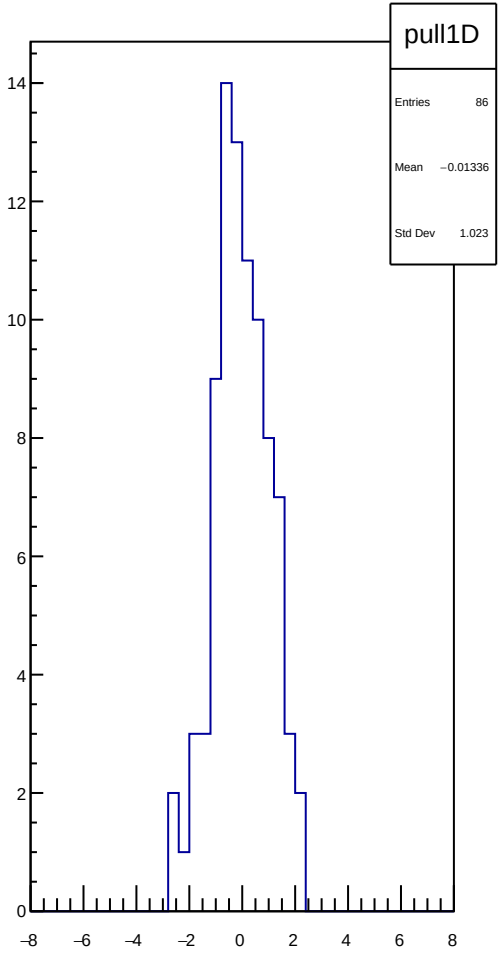

diff_bpm1i04Y_rms vs run
χ² / ndf 3252 / 85
p0 854.4 ± 0.6594
940
920
900
880
860
840
820
800
780

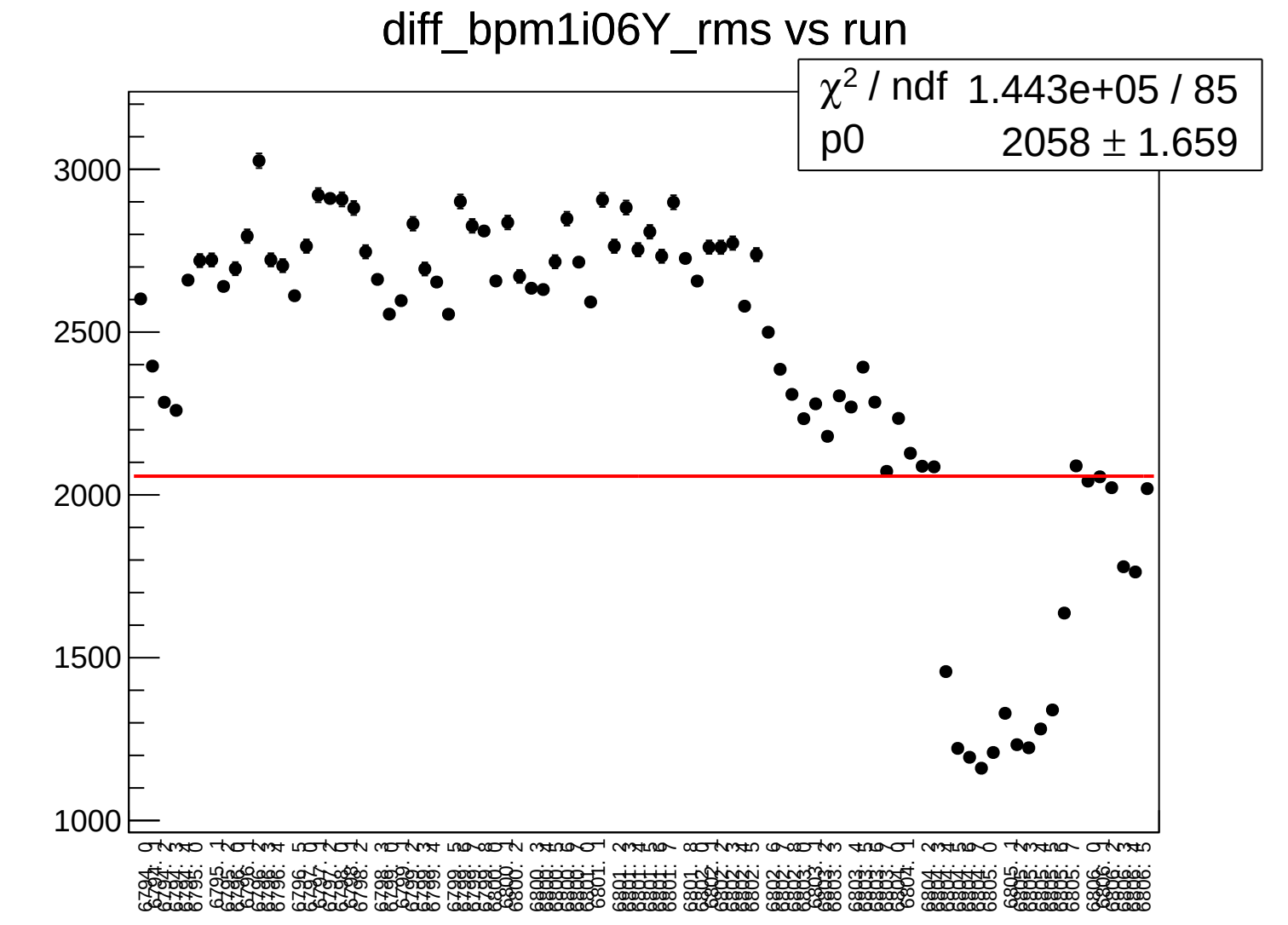

diff_bpm1i06X_mean vs run
χ^2 / ndf 121.2 / 85
p0 126.7 ± 1.862
pull
Entries 86
Mean −112.4
Std Dev 0

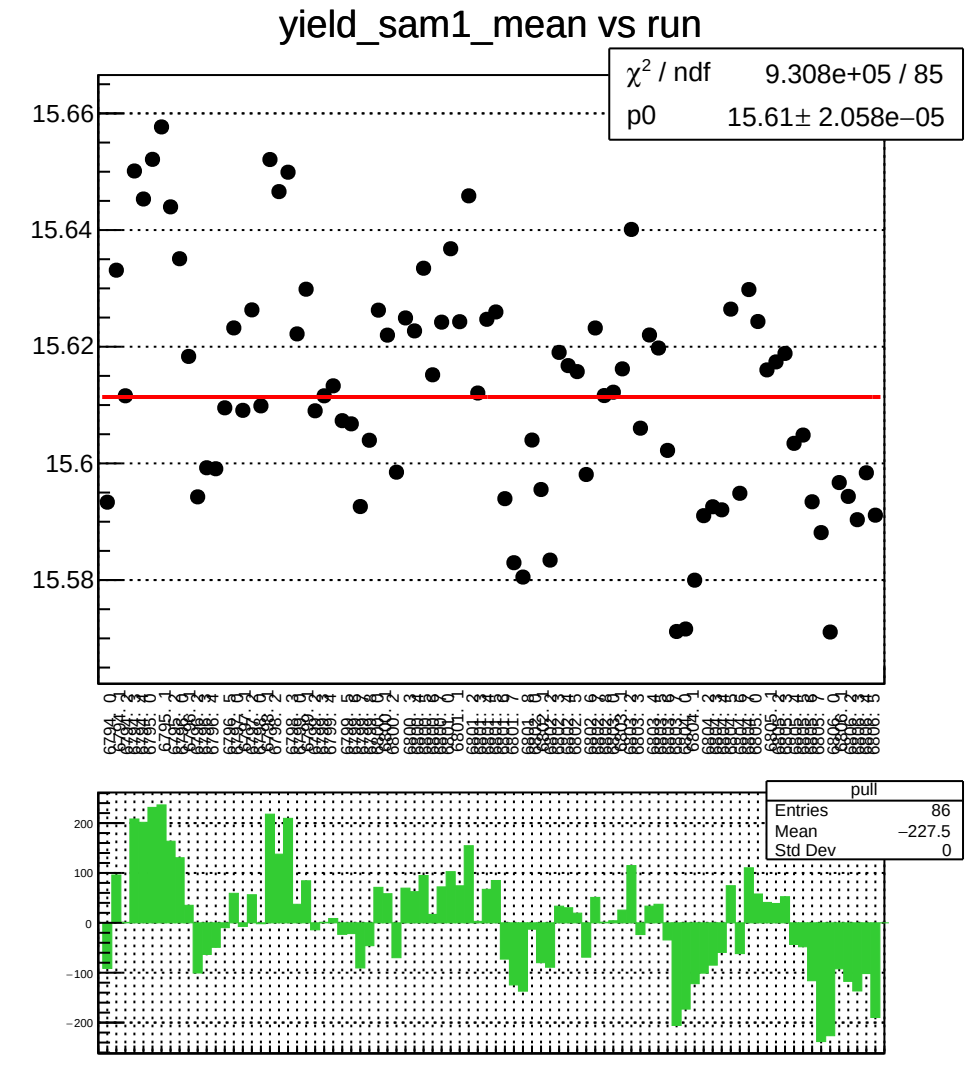

pull1D
Entries 86
Mean −0.08552
Std Dev 1.184

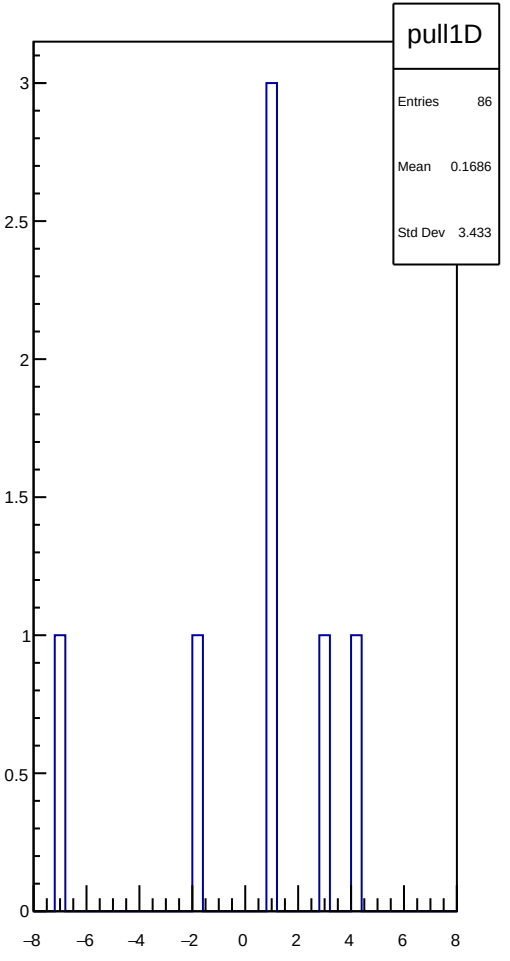

diff_bpm1i06X_rms vs run
χ² / ndf 8.091e+04 / 85
p0 1666 ± 1.316
2400
2200
2000
1800
1600
1400
1200
1000

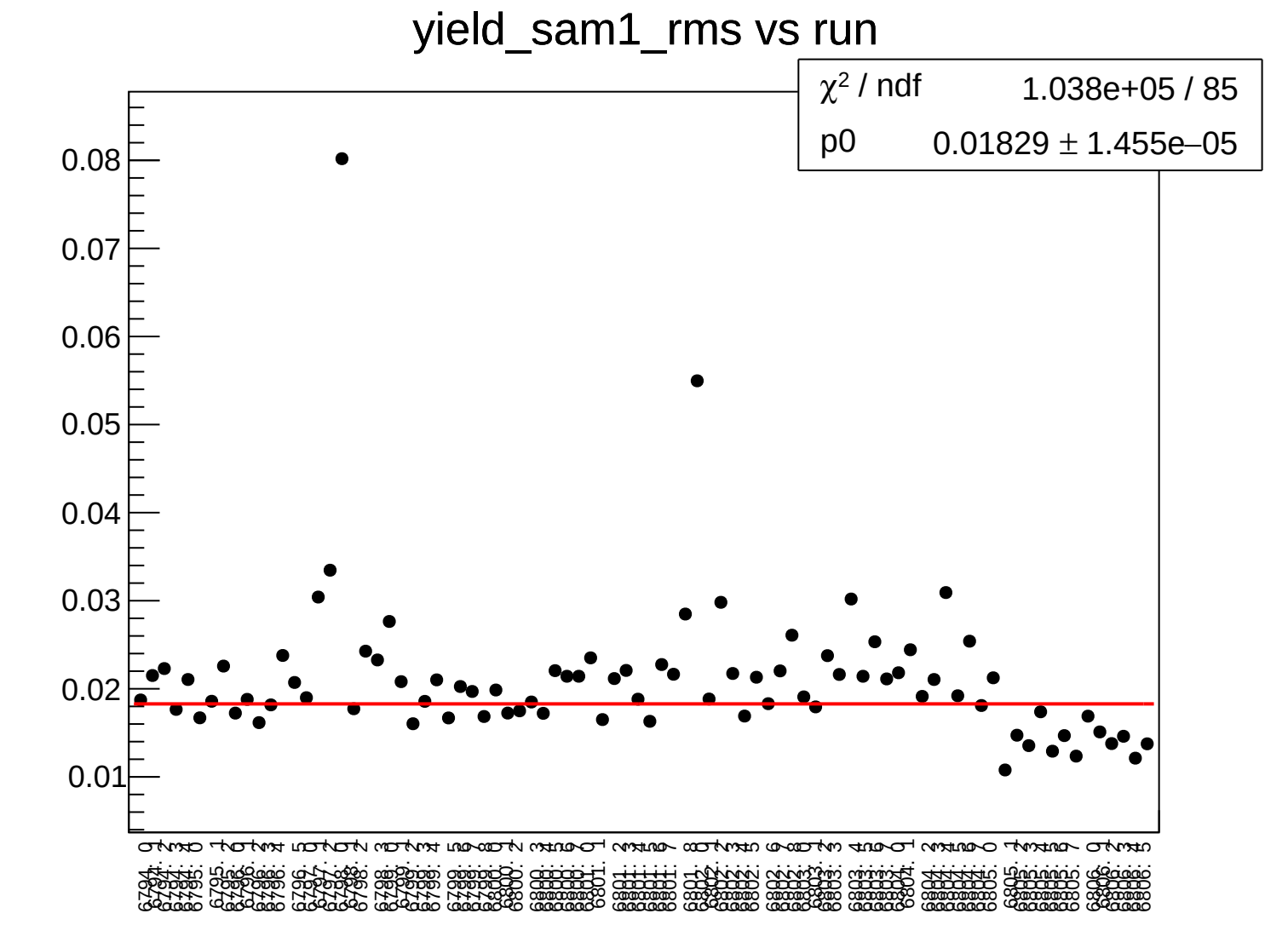

diff_bpm1i06Y_mean vs run
χ^2 / ndf 89.98 / 85
p0 21.77 ± 2.346
100
50
0
−50
−100
pull
Entries 86
Mean −345.7
Std Dev 0
2
1
0
−1
−2

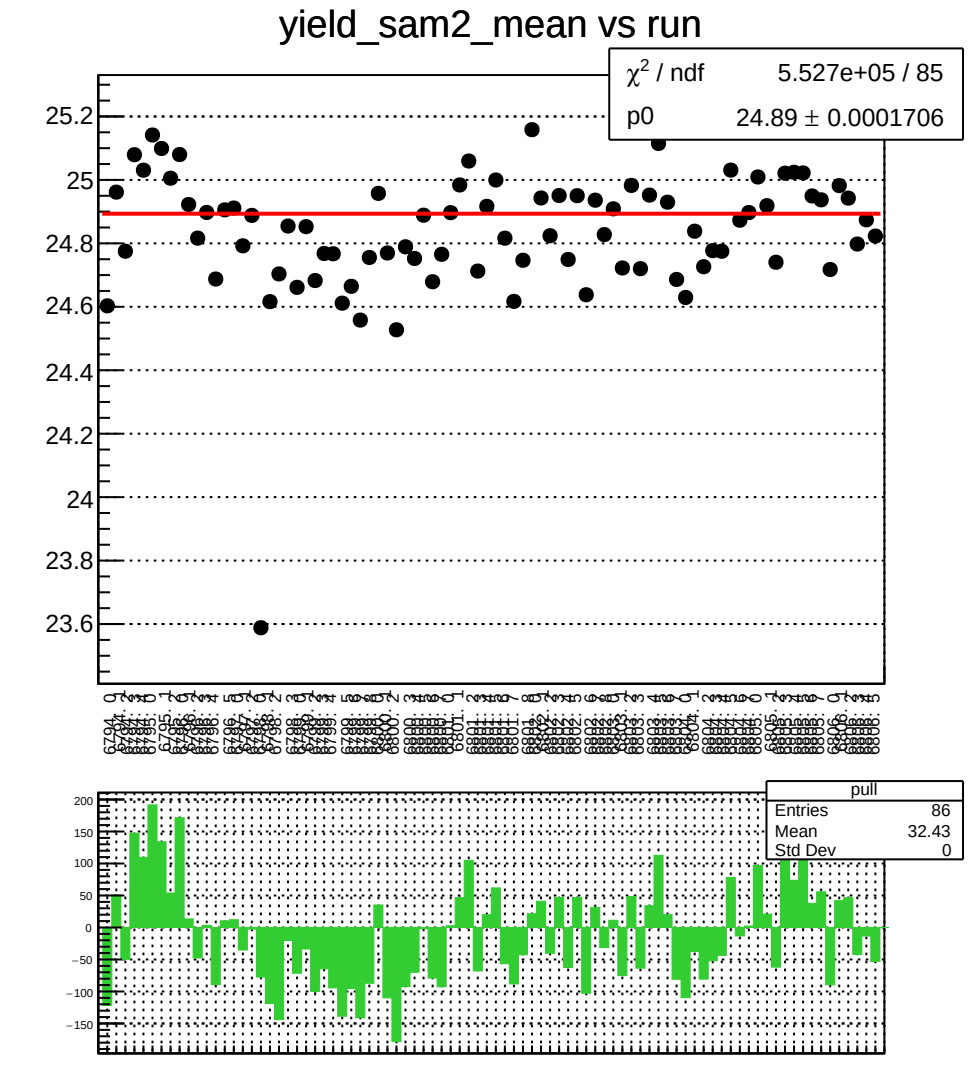

pull1D
Entries 86
Mean −0.01336
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

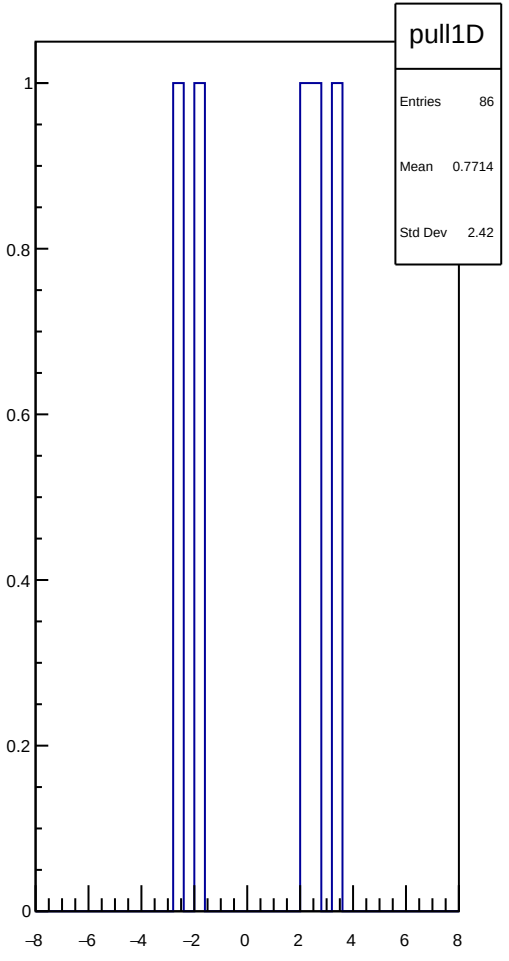

diff_bpm1i06Y_rms vs run
χ² / ndf 1.443e+05 / 85
p0 2058 ± 1.659
3000
2500
2000
1500
1000

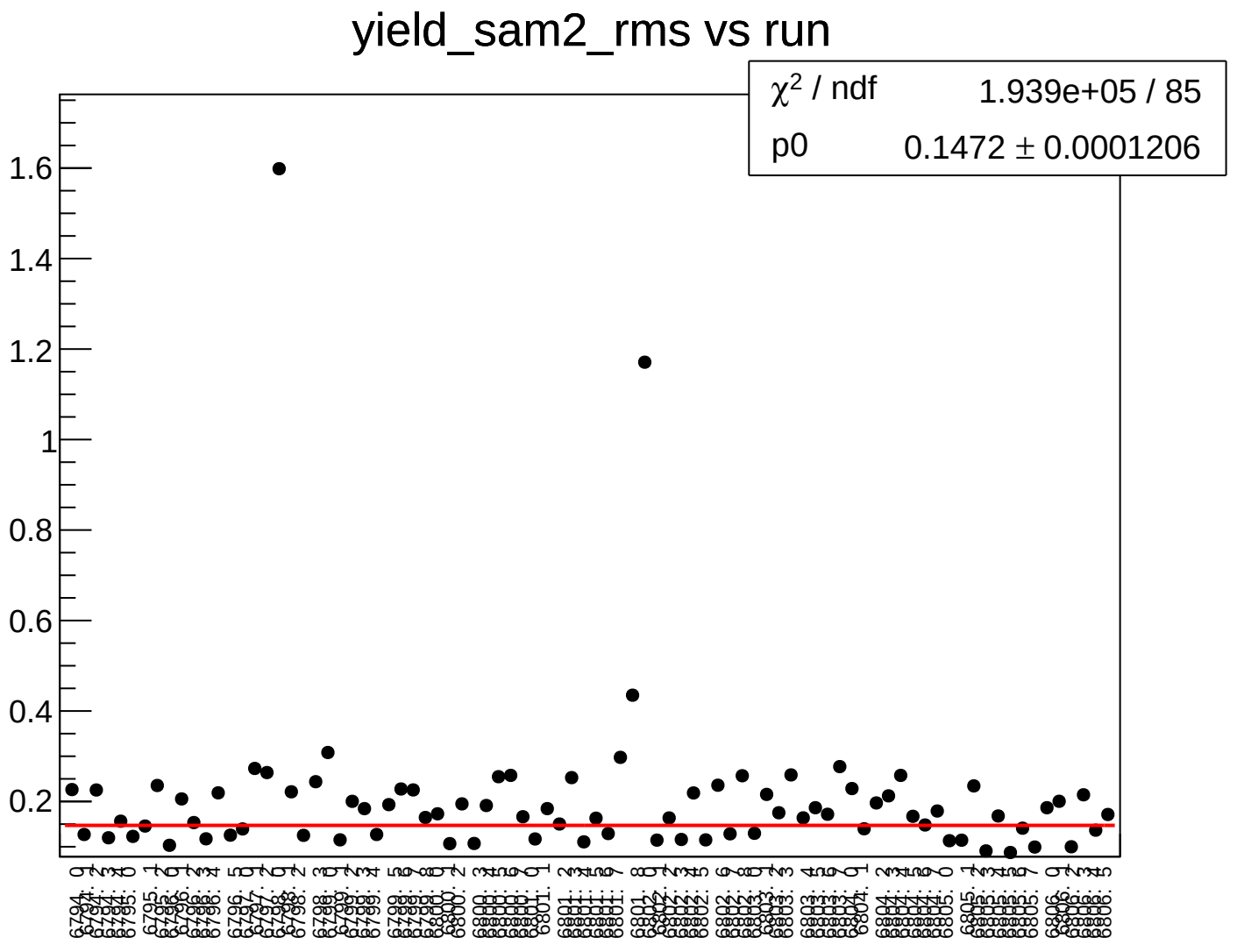

yield_sam1_mean vs run
χ² / ndf 9.308e+05 / 85
p0 15.61± 2.058e−05
15.66
15.64
15.62
15.6
15.58
pull
Entries 86
Mean −227.5
Std Dev 0
200
100
0
−100
−200

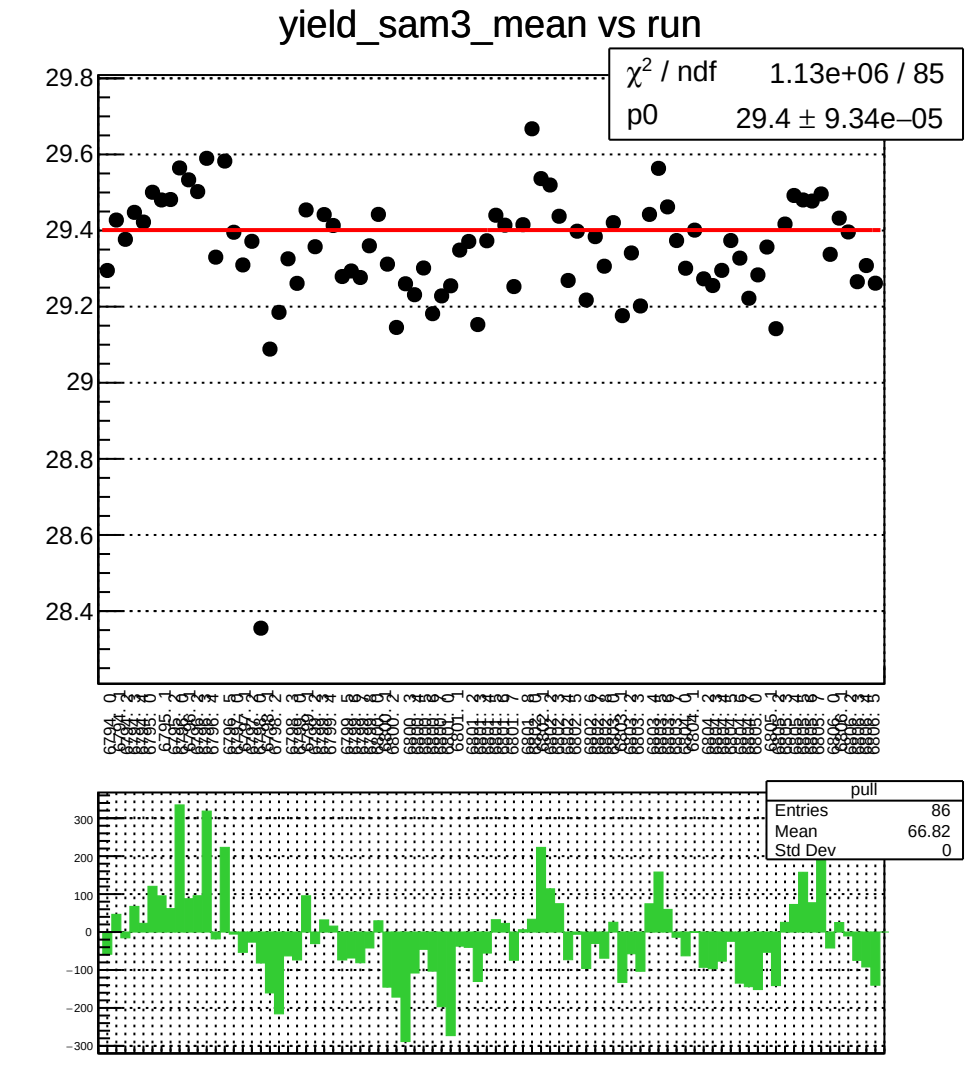

pull1D
Entries 86
Mean 0.1686
Std Dev 3.433
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

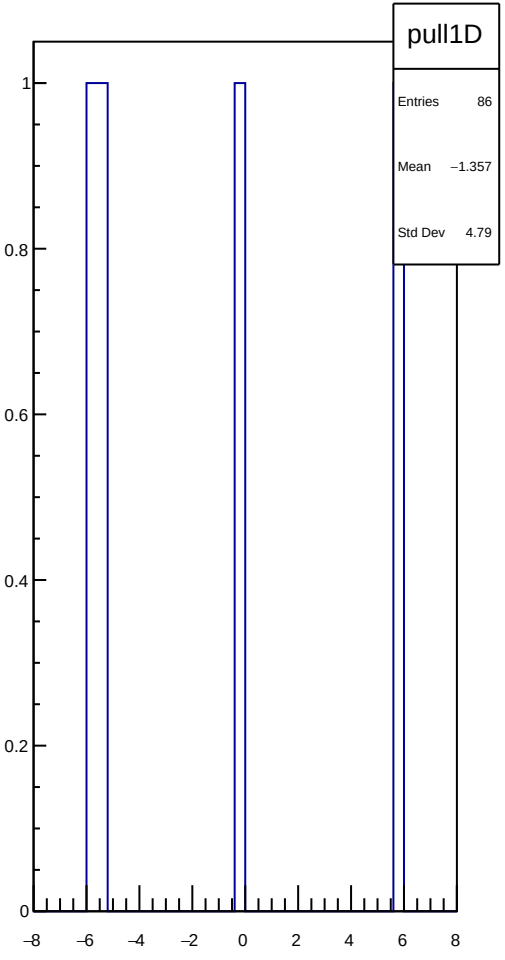

yield_sam1_rms vs run
χ² / ndf 1.038e+05 / 85
p0 0.01829 ± 1.455e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

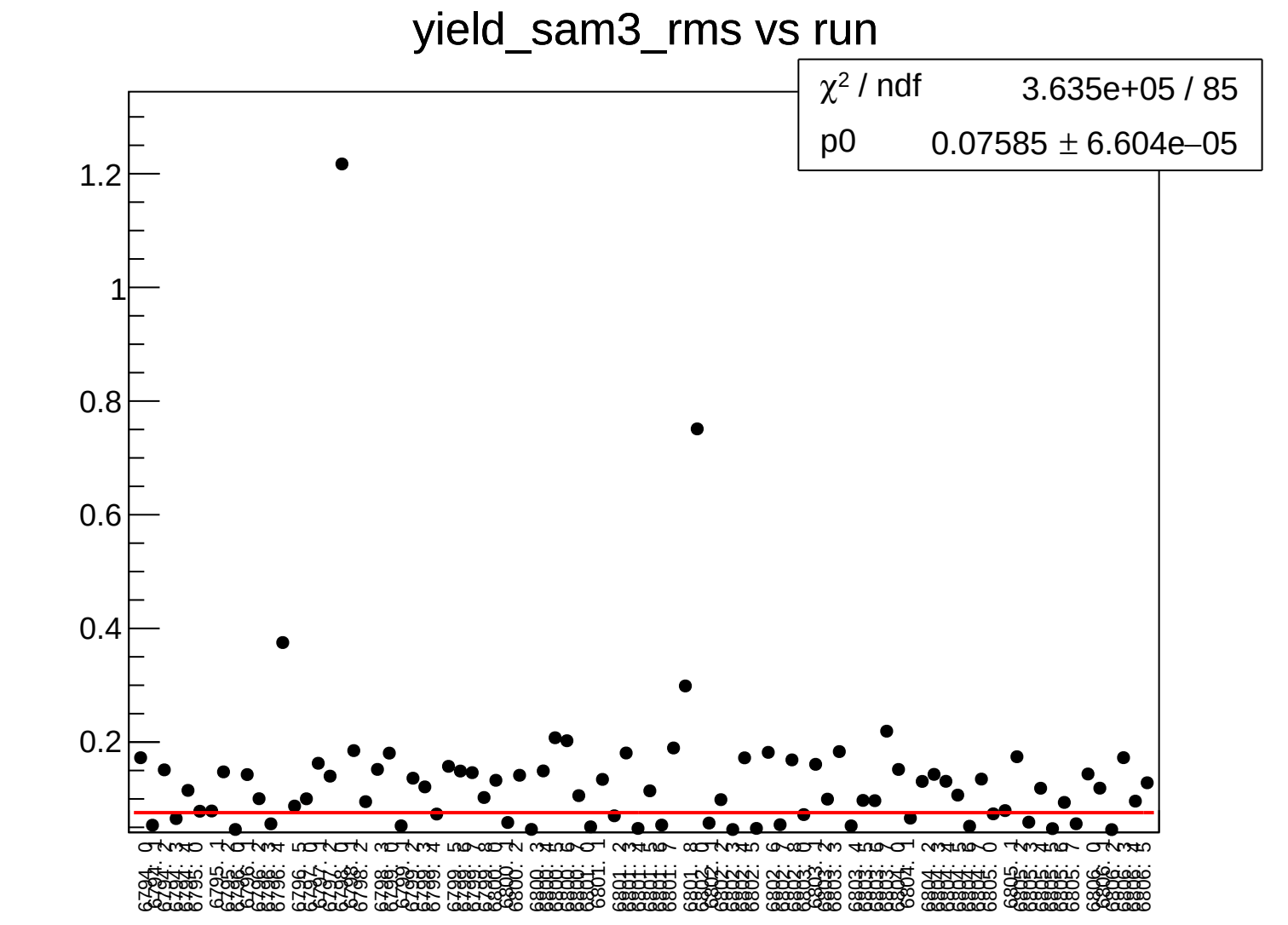

yield_sam2_mean vs run
χ² / ndf 5.527e+05 / 85
p0 24.89 ± 0.0001706
25.2
25
24.8
24.6
24.4
24.2
24
23.8
23.6
pull
Entries 86
Mean 32.43
Std Dev 0
200
150
100
50
0
−50
−100
−150

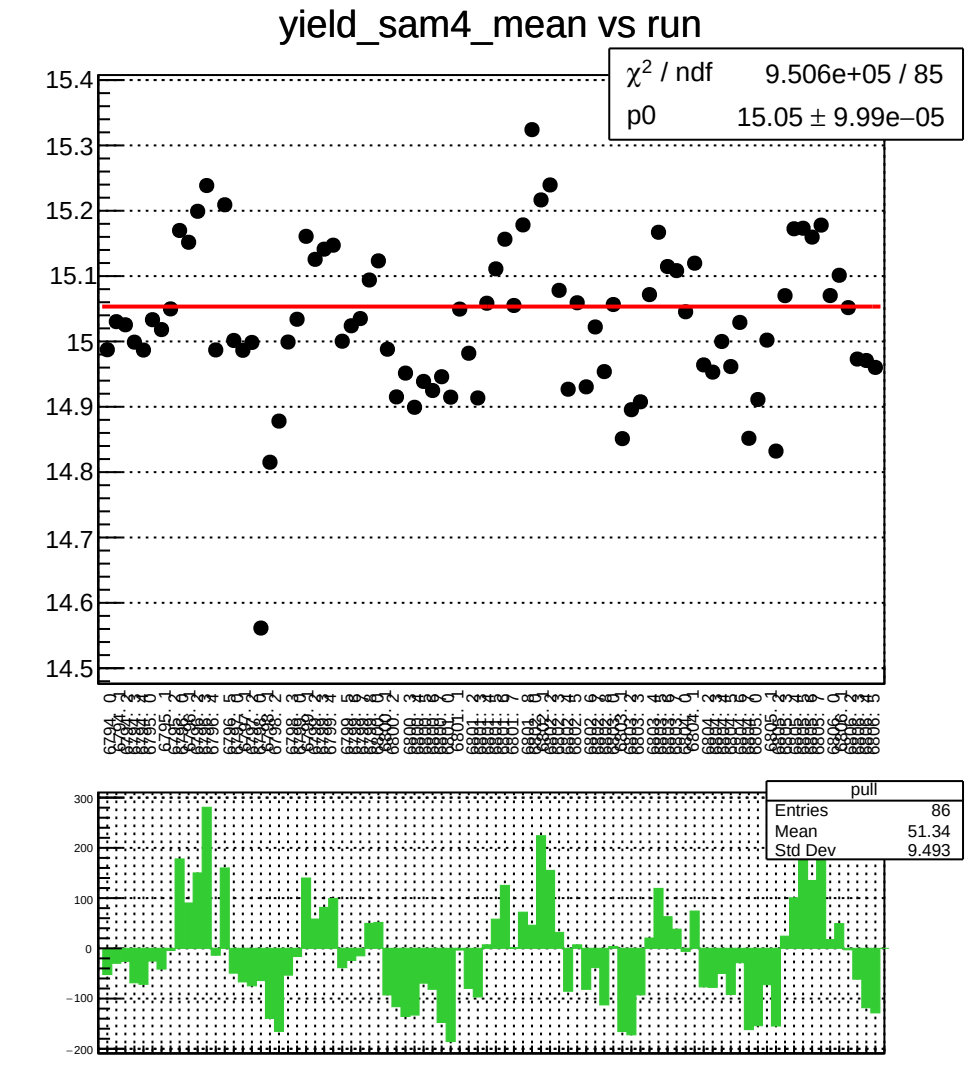

pull1D
Entries 86
Mean 0.7714
Std Dev 2.42
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

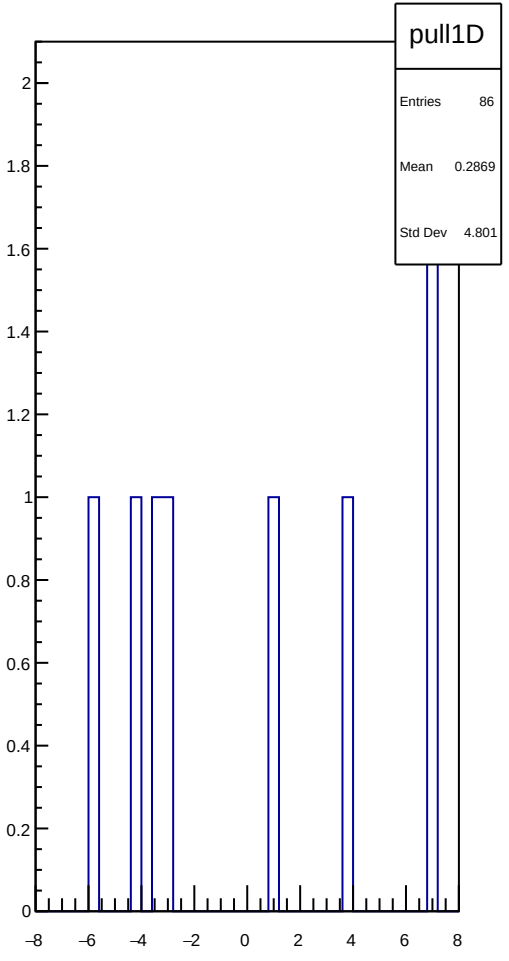

yield_sam2_rms vs run
χ² / ndf 1.939e+05 / 85
p0 0.1472 ± 0.0001206
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

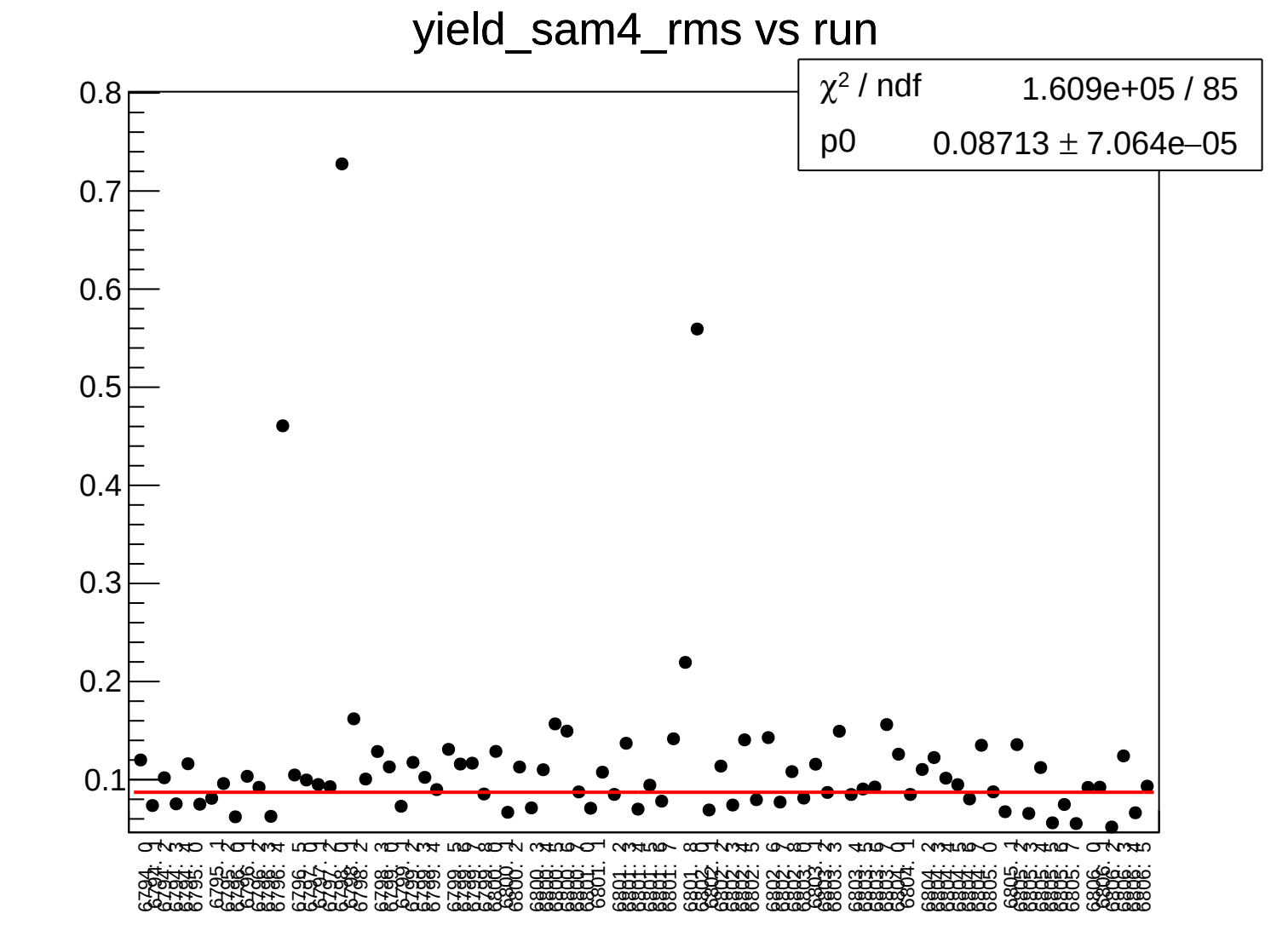

yield_sam3_mean vs run
χ² / ndf 1.13e+06 / 85
p0 29.4 ± 9.34e−05
29.8
29.6
29.4
29.2
29
28.8
28.6
28.4
pull
Entries 86
Mean 66.82
Std Dev 0
300
200
100
0
−100
−200
−300

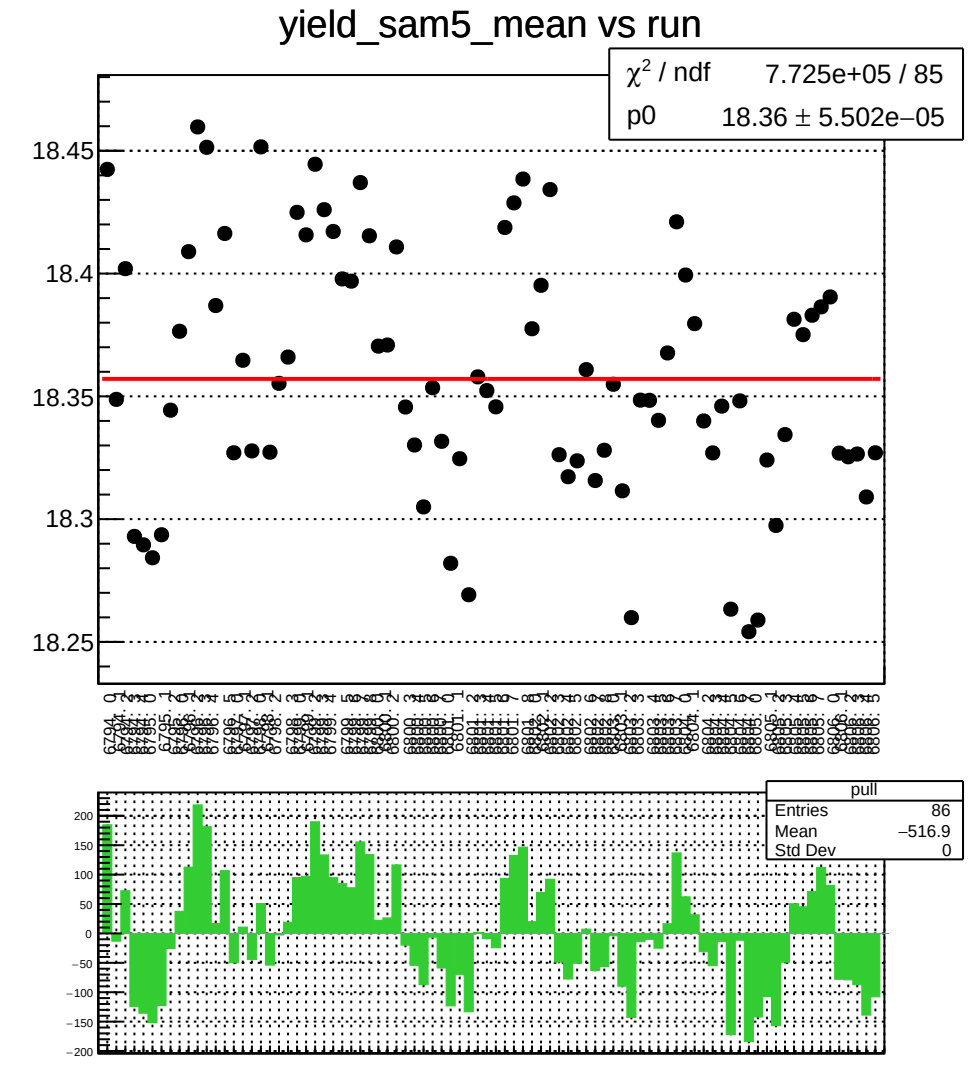

pull1D
Entries 86
Mean −1.357
Std Dev 4.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

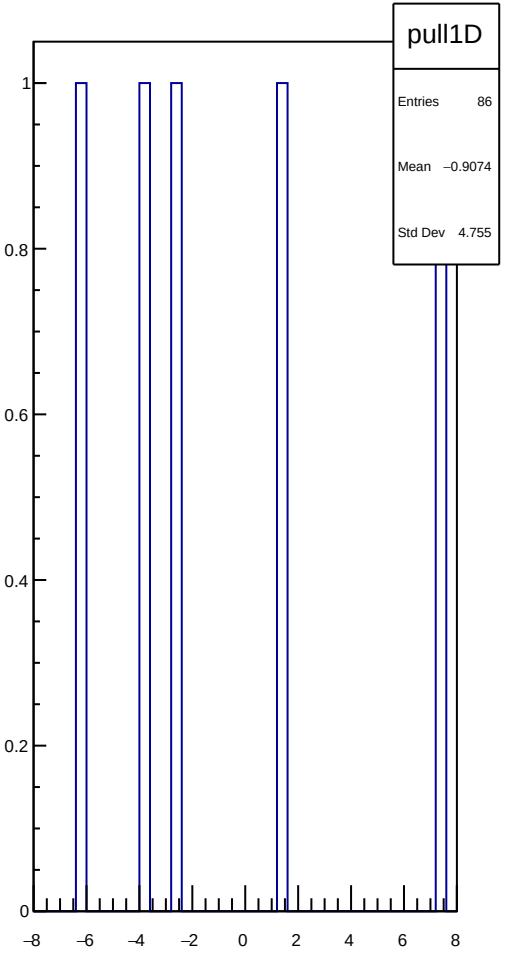

yield_sam3_rms vs run
χ² / ndf 3.635e+05 / 85
p0 0.07585 ± 6.604e−05
1.2
1
0.8
0.6
0.4
0.2

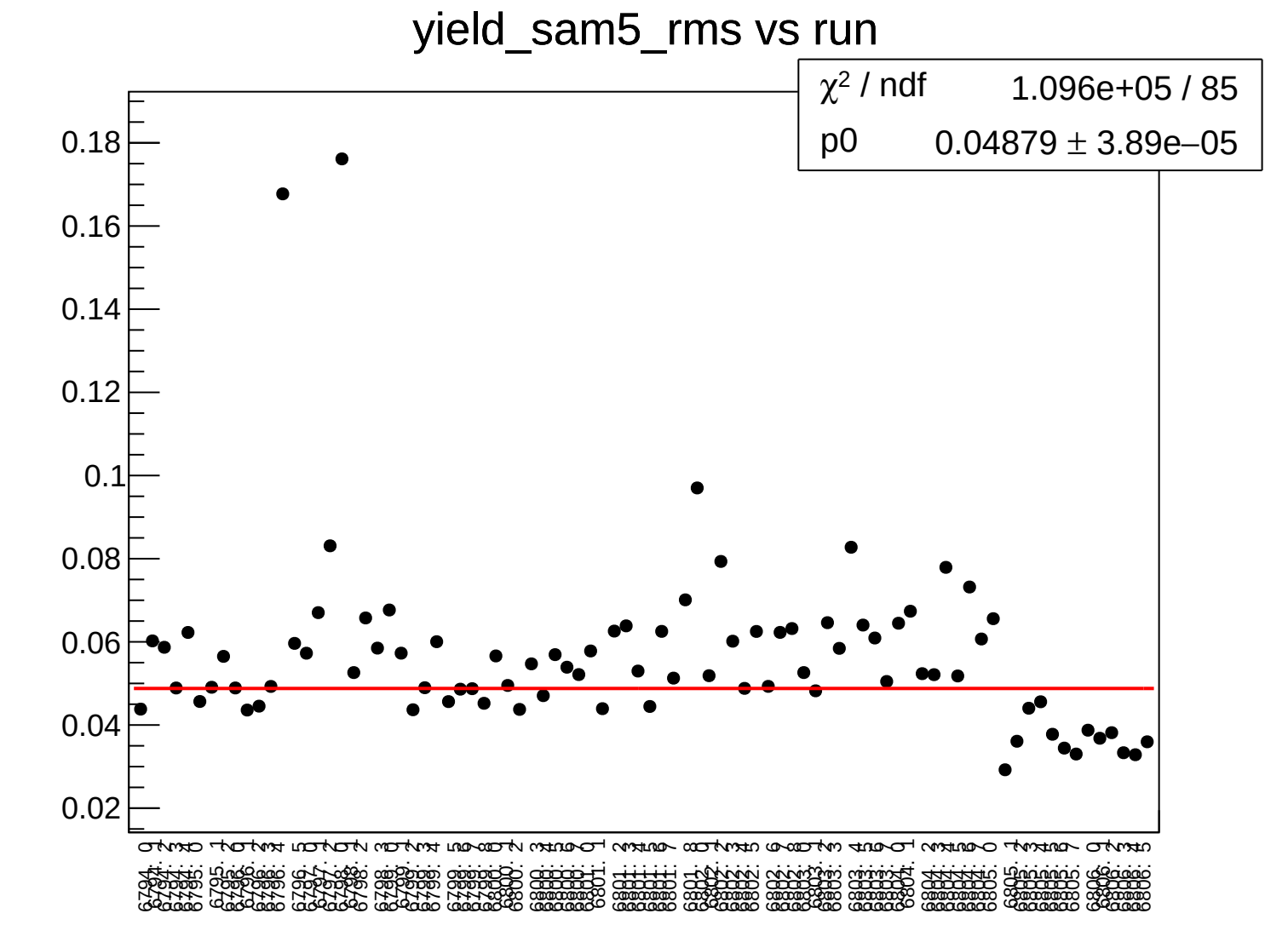

yield_sam4_mean vs run
χ² / ndf 9.506e+05 / 85
p0 15.05 ± 9.99e−05
pull
Entries 86
Mean 51.34
Std Dev 9.493

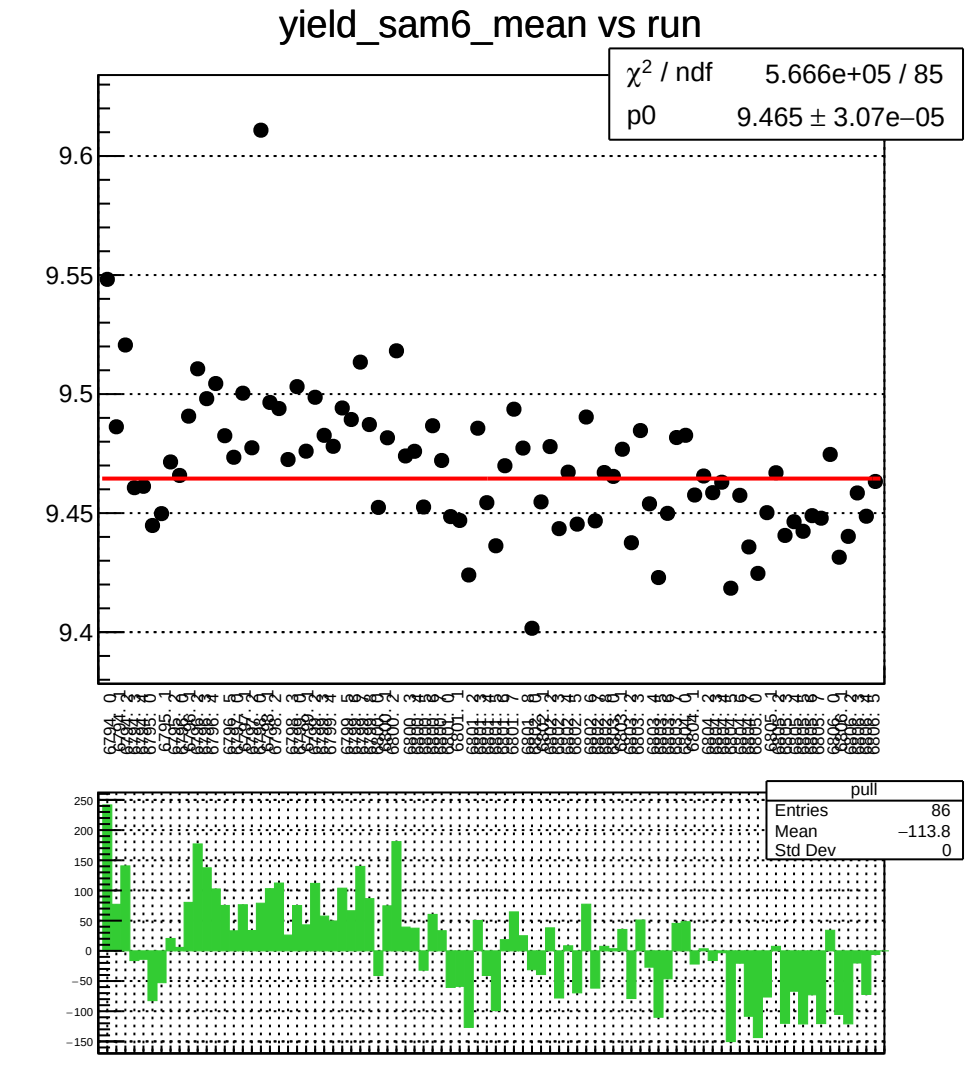

pull1D
Entries 86
Mean 0.2869
Std Dev 4.801

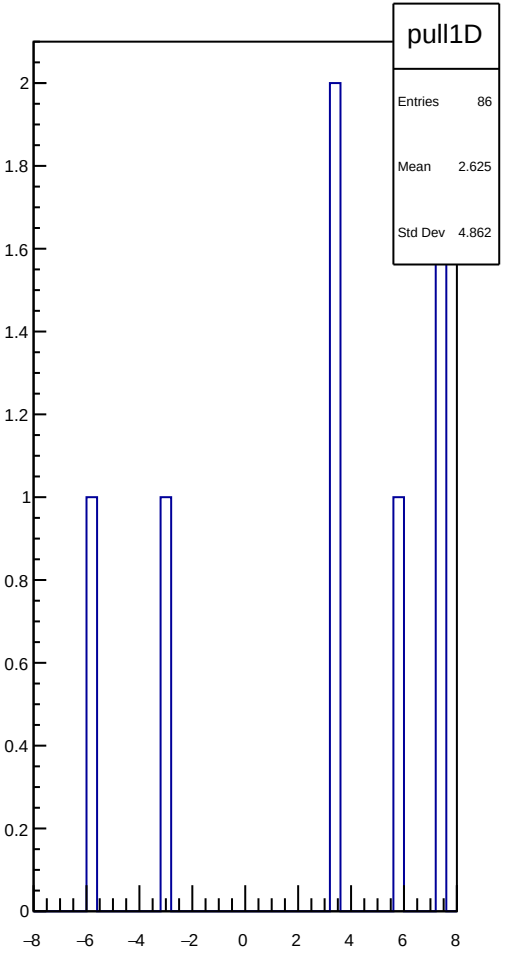

yield_sam4_rms vs run
χ² / ndf 1.609e+05 / 85
p0 0.08713 ± 7.064e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

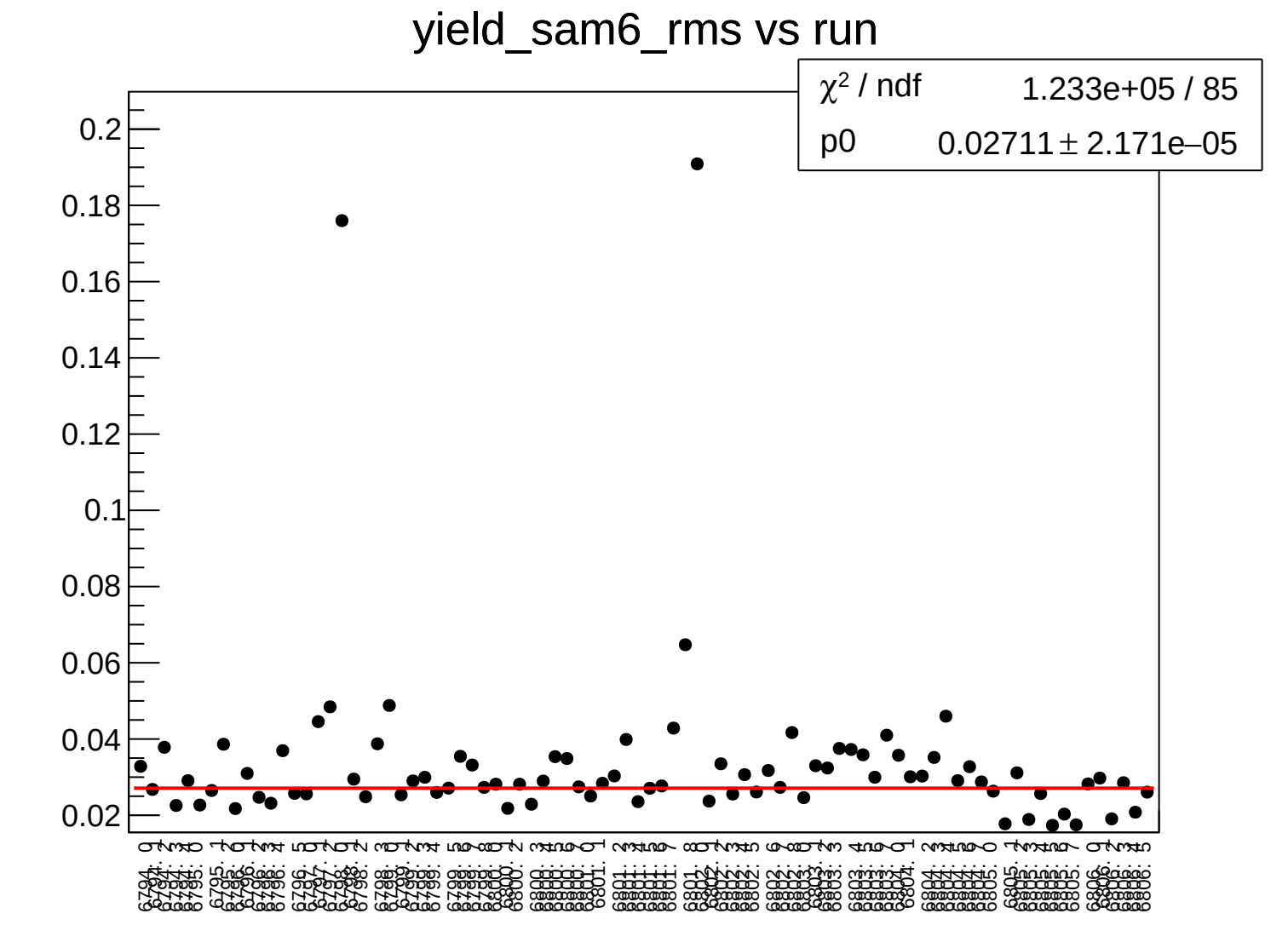

yield_sam5_mean vs run
χ² / ndf 7.725e+05 / 85
p0 18.36 ± 5.502e−05
18.45
18.4
18.35
18.3
18.25
pull
Entries 86
Mean −516.9
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200

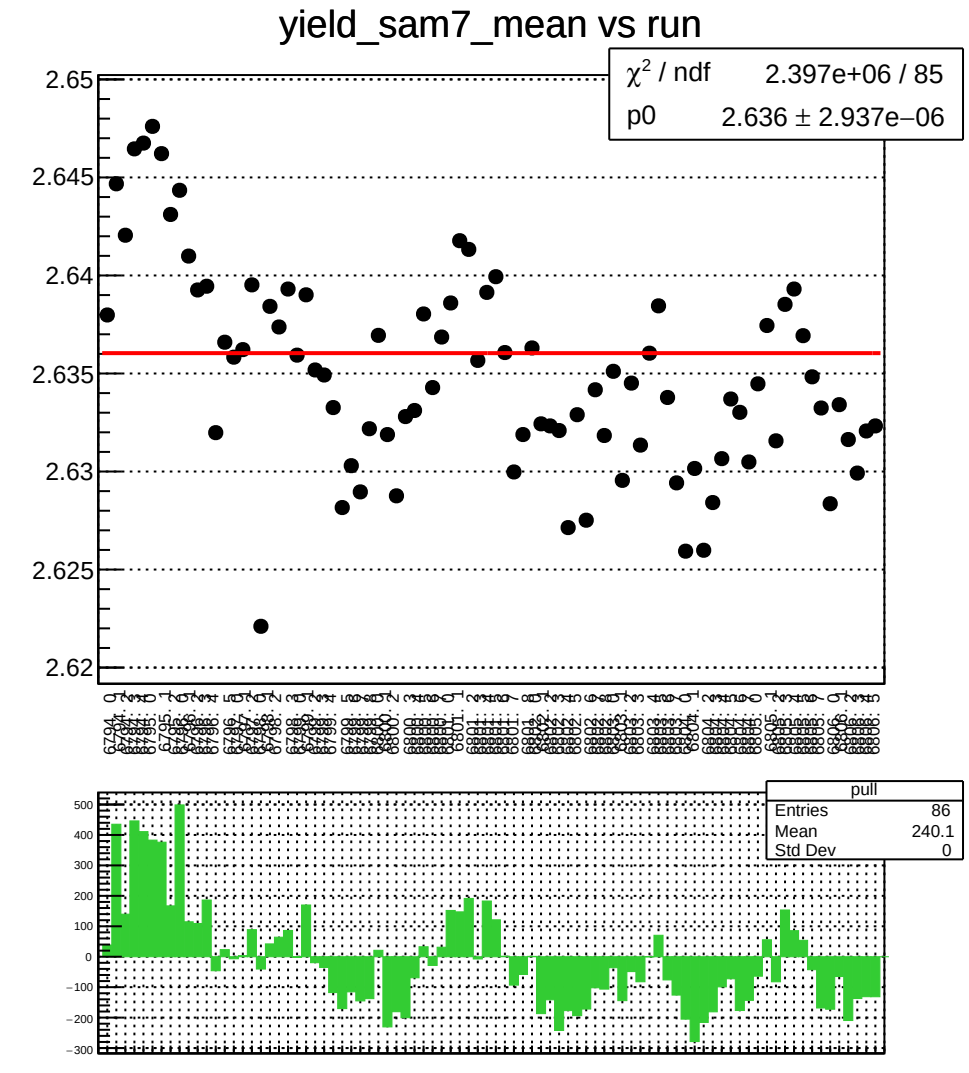

pull1D
Entries 86
Mean −0.9074
Std Dev 4.755
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

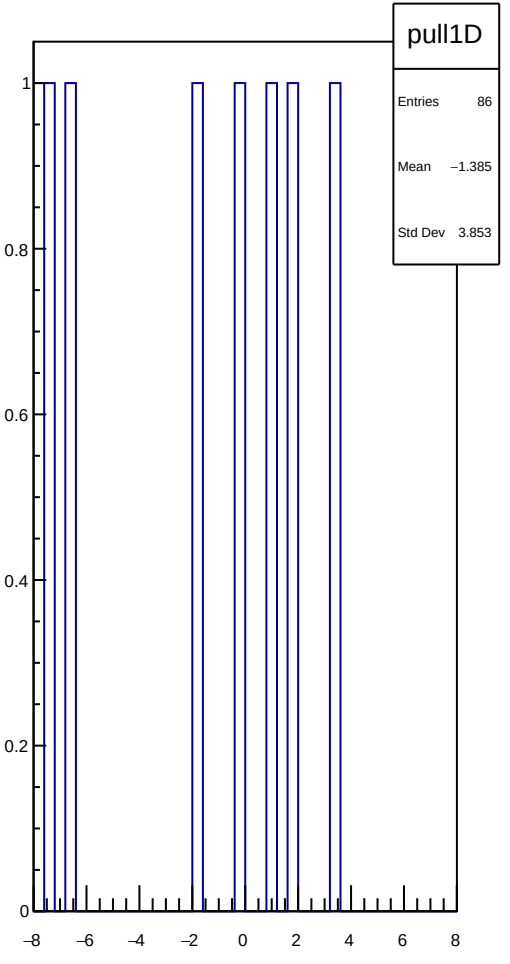

yield_sam5_rms vs run
χ² / ndf 1.096e+05 / 85
p0 0.04879 ± 3.89e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

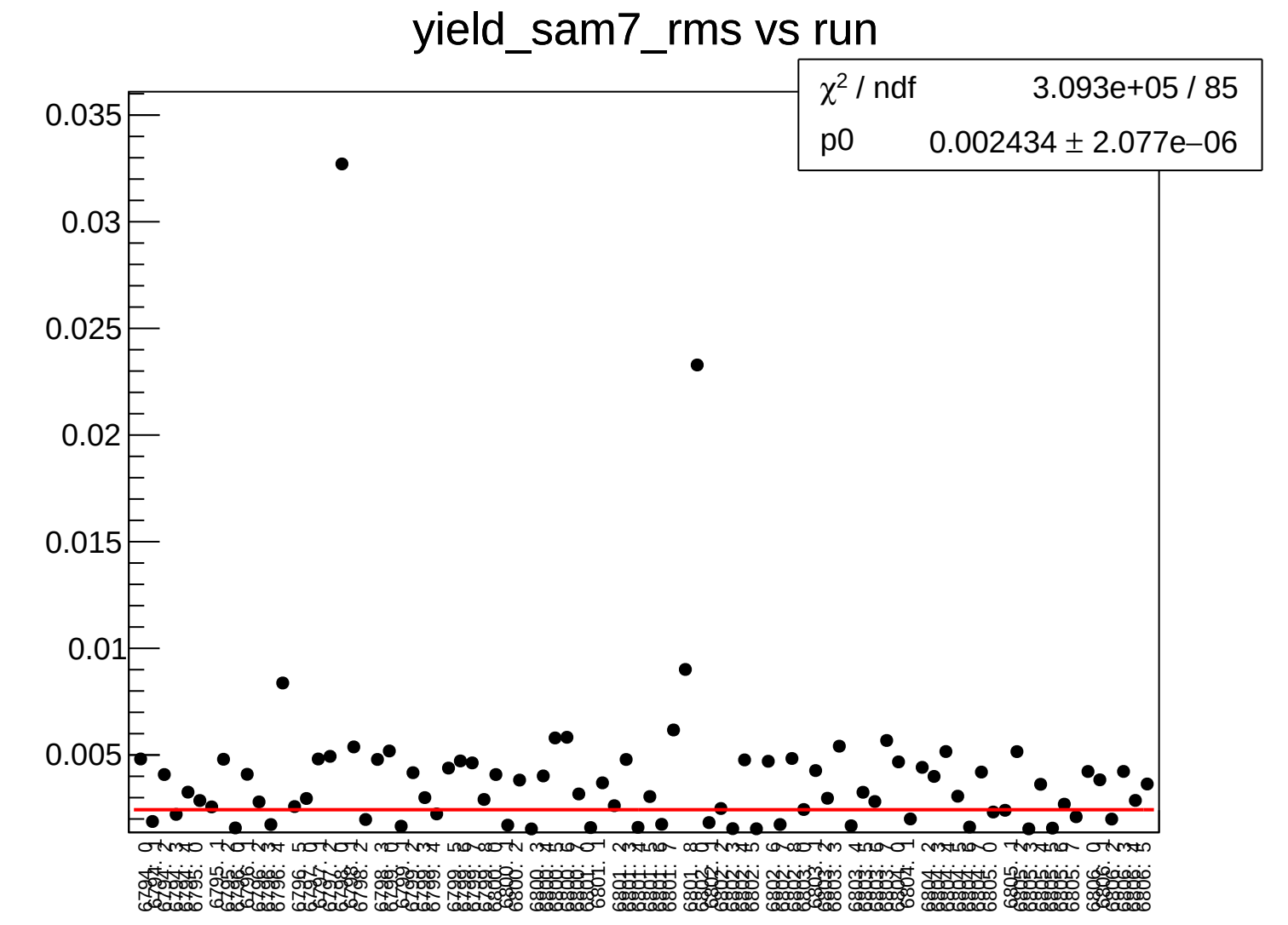

yield_sam6_mean vs run
χ² / ndf 5.666e+05 / 85
p0 9.465 ± 3.07e−05
9.6
9.55
9.5
9.45
9.4
pull
Entries 86
Mean −113.8
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

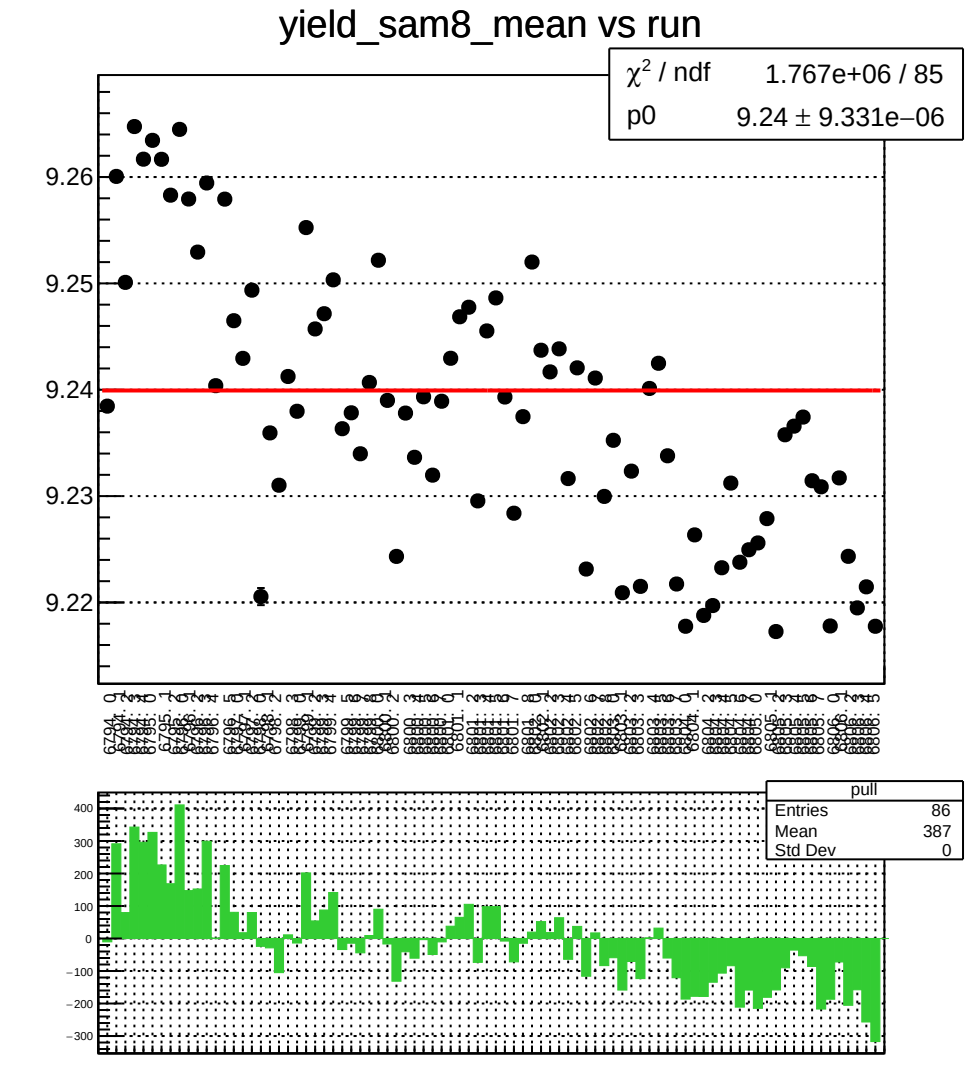

pull1D
Entries 86
Mean 2.625
Std Dev 4.862
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

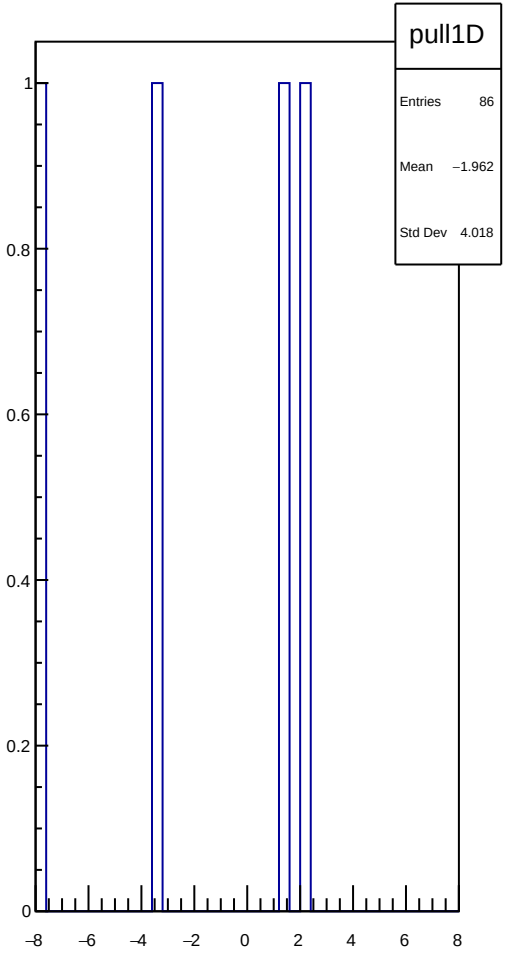

yield_sam6_rms vs run
χ² / ndf 1.233e+05 / 85
p0 0.02711 ± 2.171e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

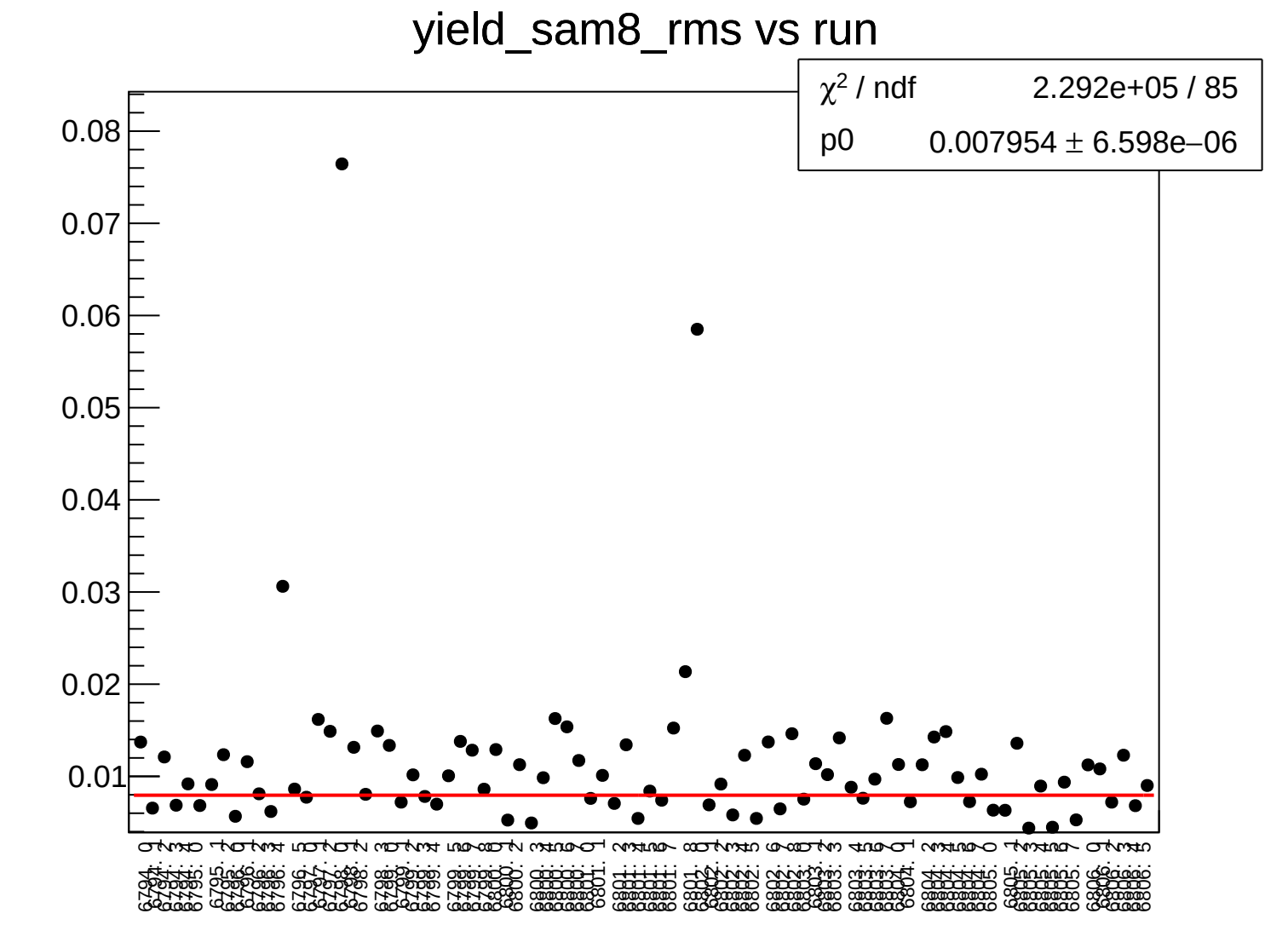

yield_sam7_mean vs run
χ² / ndf 2.397e+06 / 85
p0 2.636 ± 2.937e−06
2.65
2.645
2.64
2.635
2.63
2.625
2.62
pull
Entries 86
Mean 240.1
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

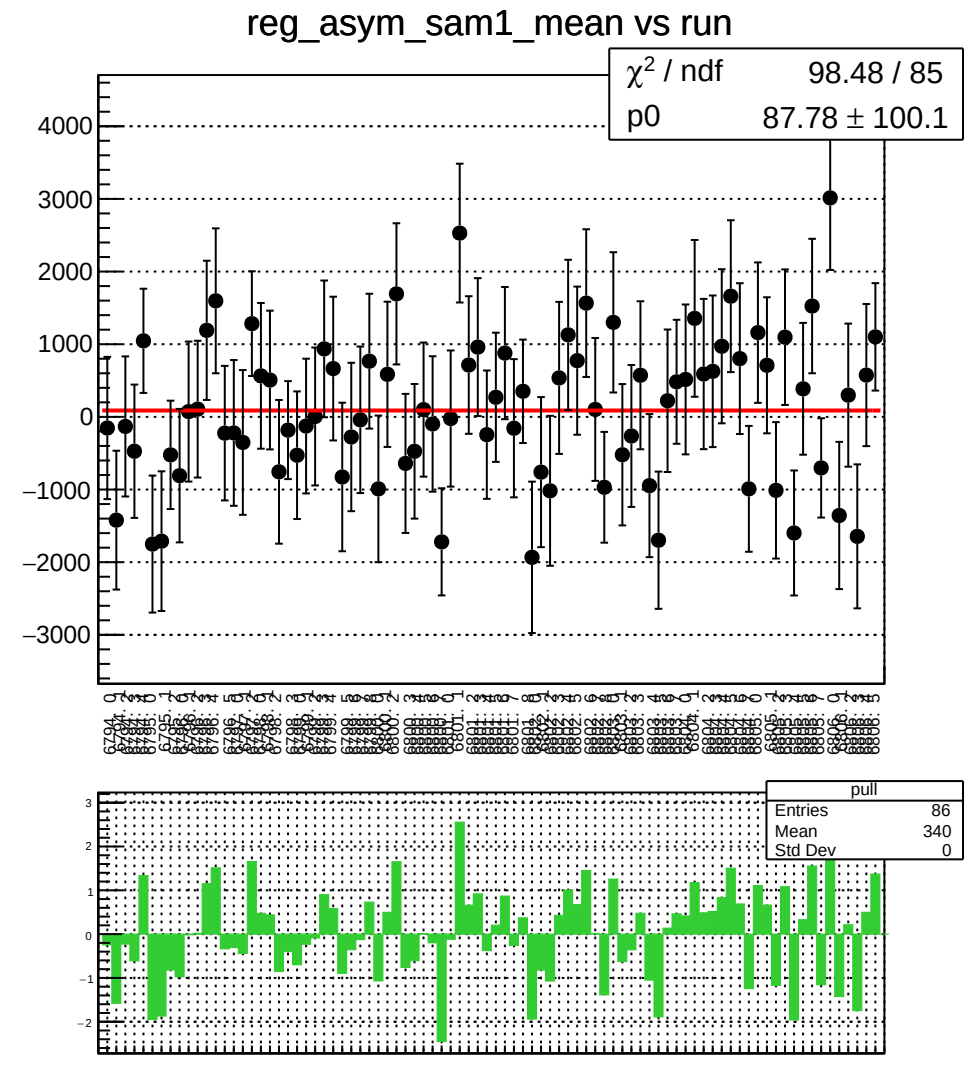

pull1D
Entries 86
Mean −1.385
Std Dev 3.853
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

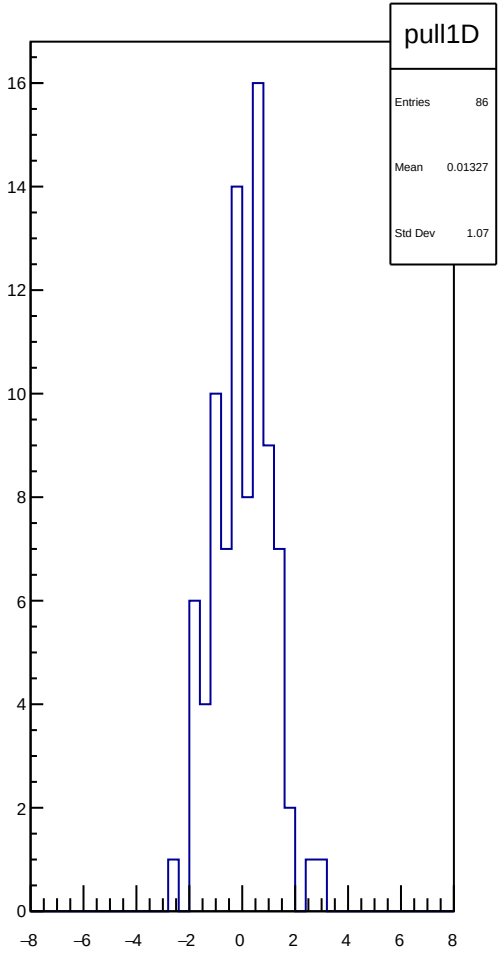

yield_sam7_rms vs run
χ² / ndf 3.093e+05 / 85
p0 0.002434 ± 2.077e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

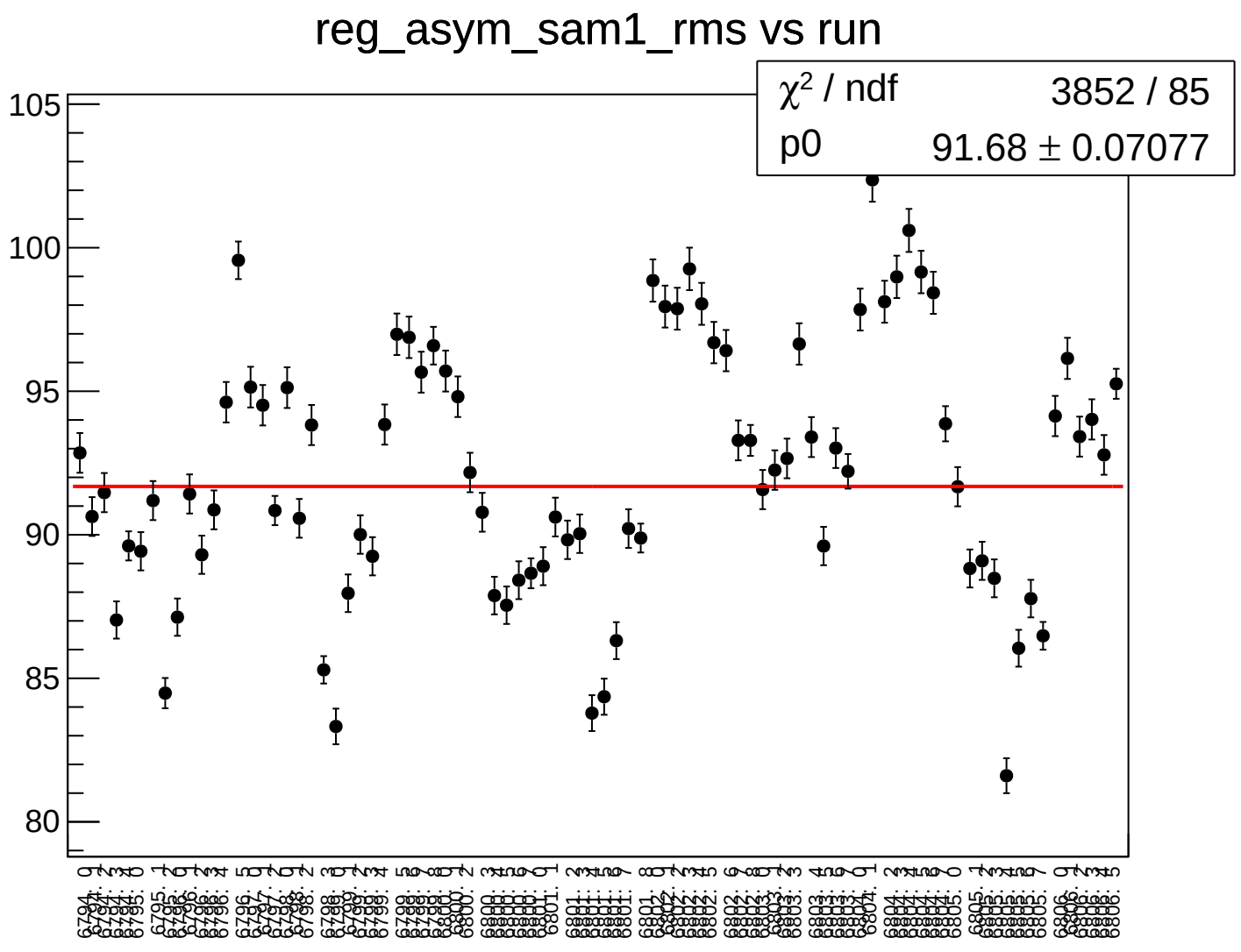

yield_sam8_mean vs run
χ² / ndf 1.767e+06 / 85
p0 9.24 ± 9.331e−06
9.26
9.25
9.24
9.23
9.22
pull
Entries 86
Mean 387
Std Dev 0
400
300
200
100
0
−100
−200
−300

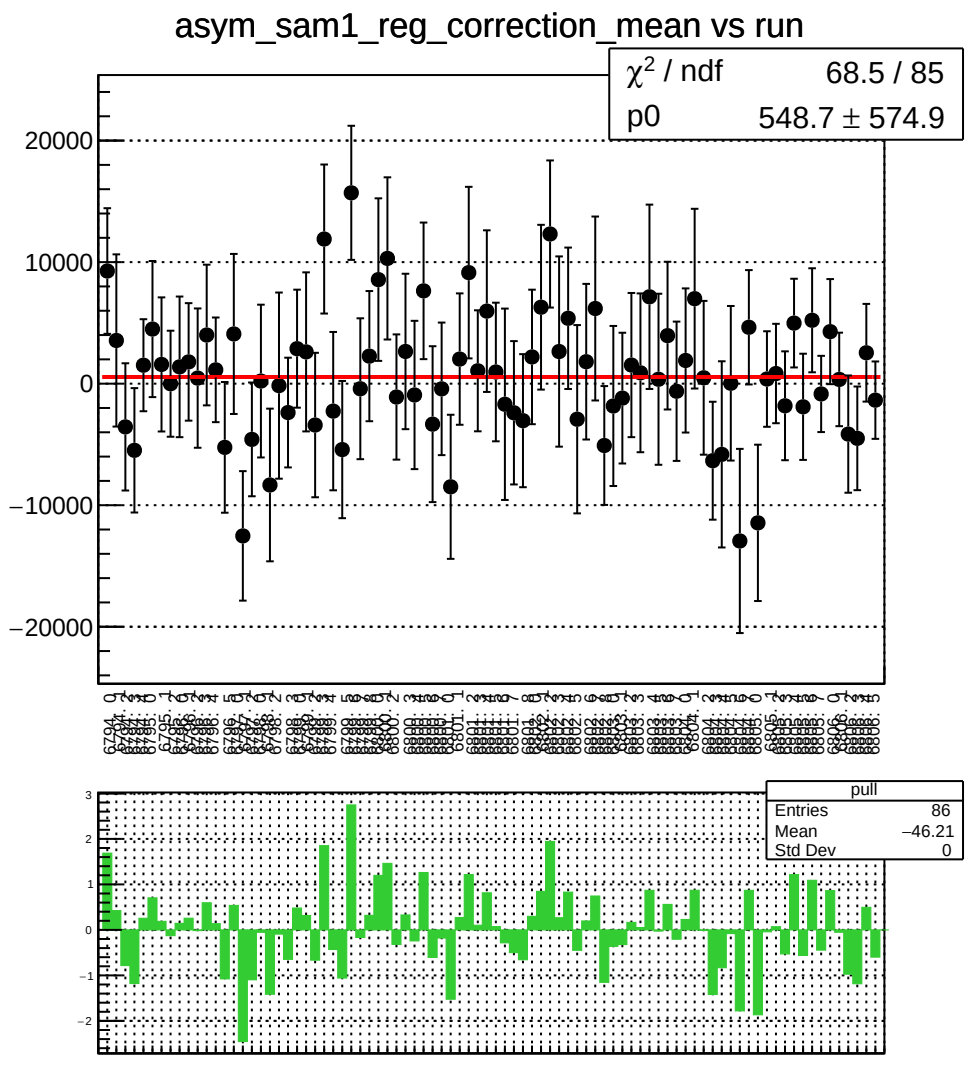

pull1D
Entries 86
Mean −1.962
Std Dev 4.018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

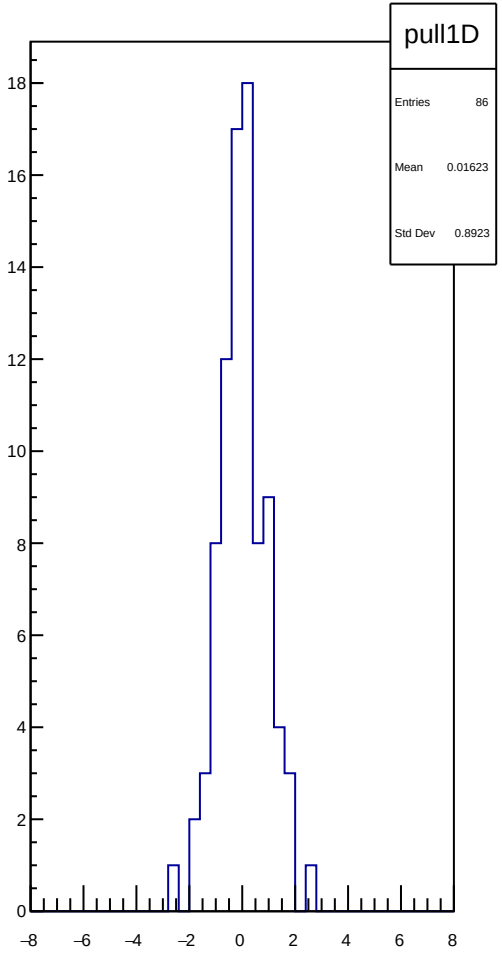

yield_sam8_rms vs run
χ² / ndf 2.292e+05 / 85
p0 0.007954 ± 6.598e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

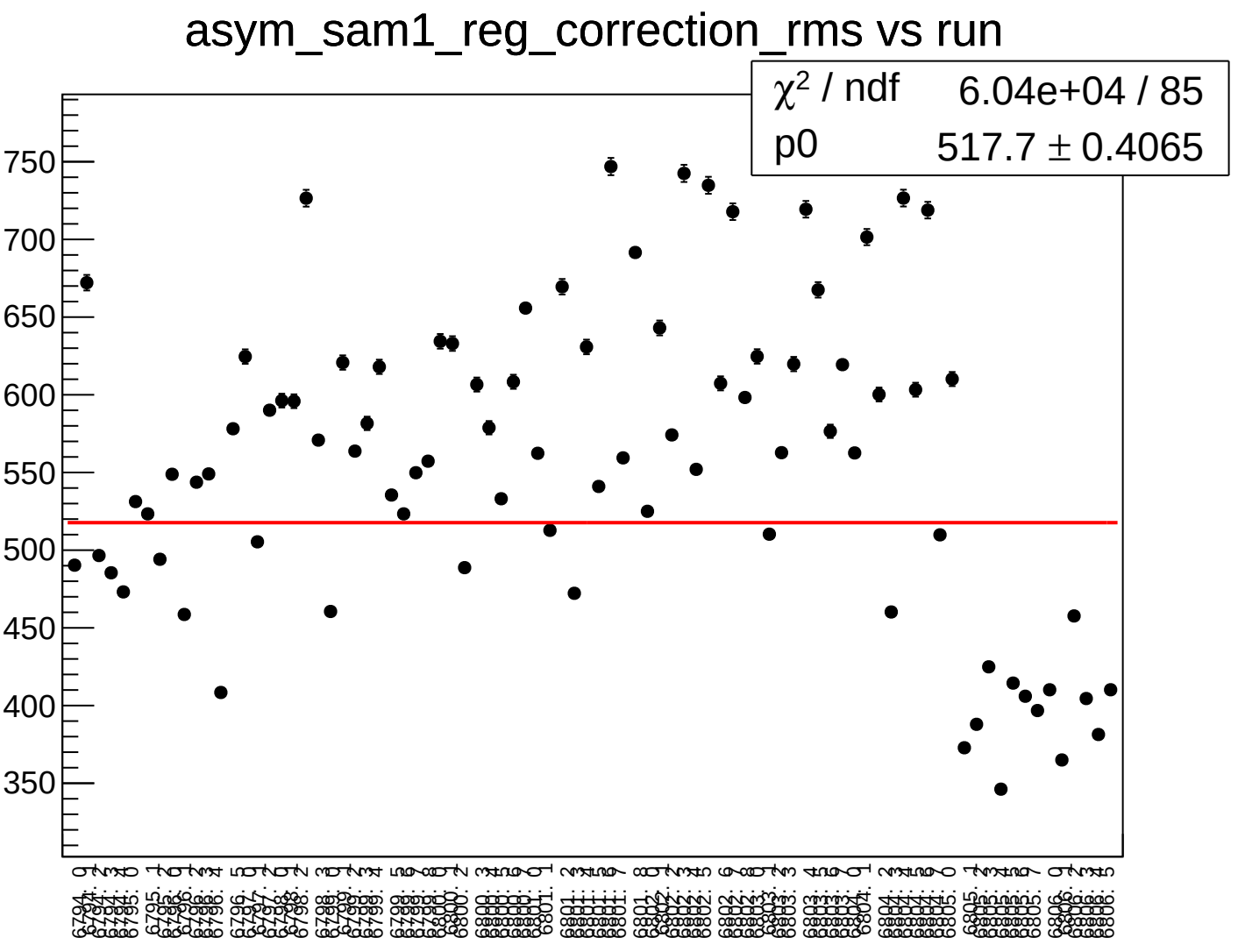

reg_asym_sam1_mean vs run
χ² / ndf 98.48 / 85
p0 87.78 ± 100.1
pull
Entries 86
Mean 340
Std Dev 0

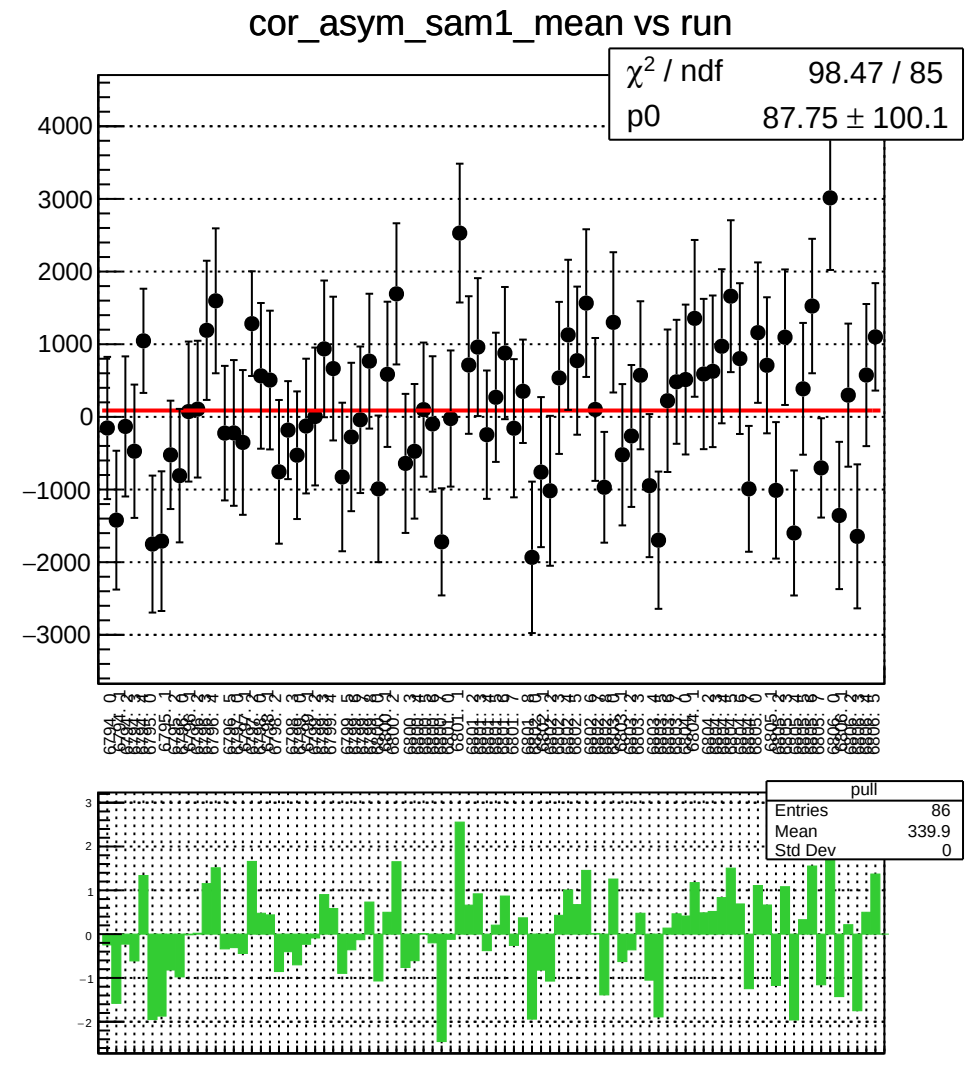

pull1D
Entries 86
Mean 0.01327
Std Dev 1.07

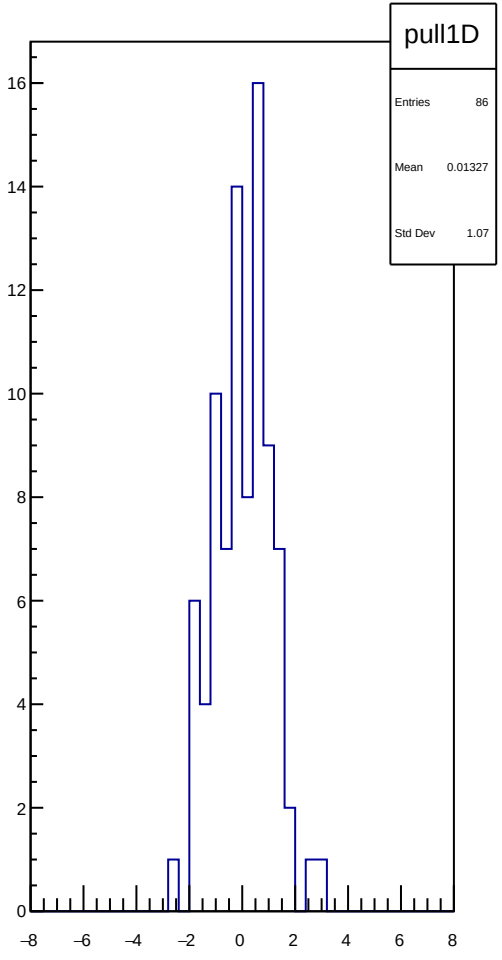

reg_asym_sam1_rms vs run
χ² / ndf 3852 / 85
p0 91.68 ± 0.07077
105
100
95
90
85
80

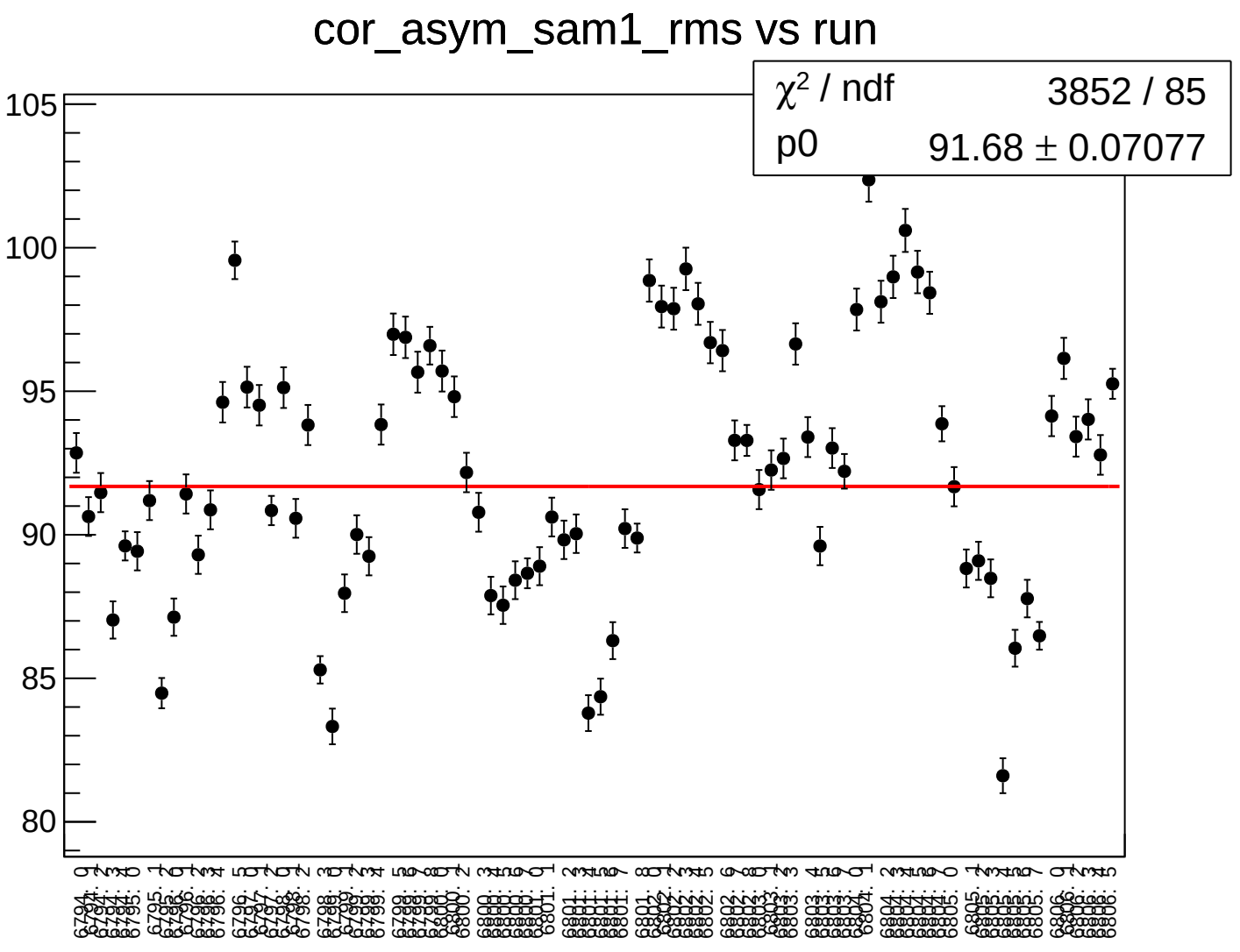

asym_sam1_reg_correction_mean vs run
χ² / ndf 68.5 / 85
p0 548.7 ± 574.9
pull
Entries 86
Mean −46.21
Std Dev 0

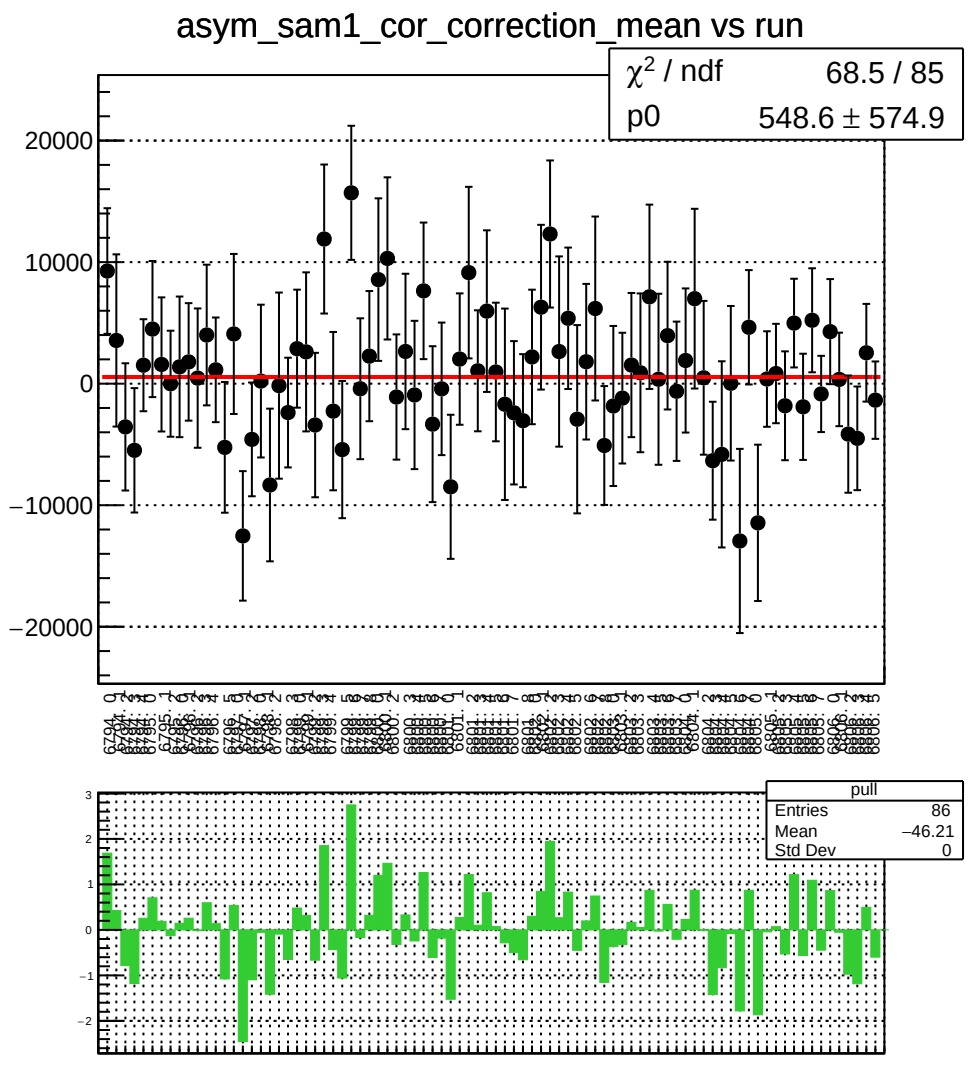

pull1D
Entries 86
Mean 0.01623
Std Dev 0.8923

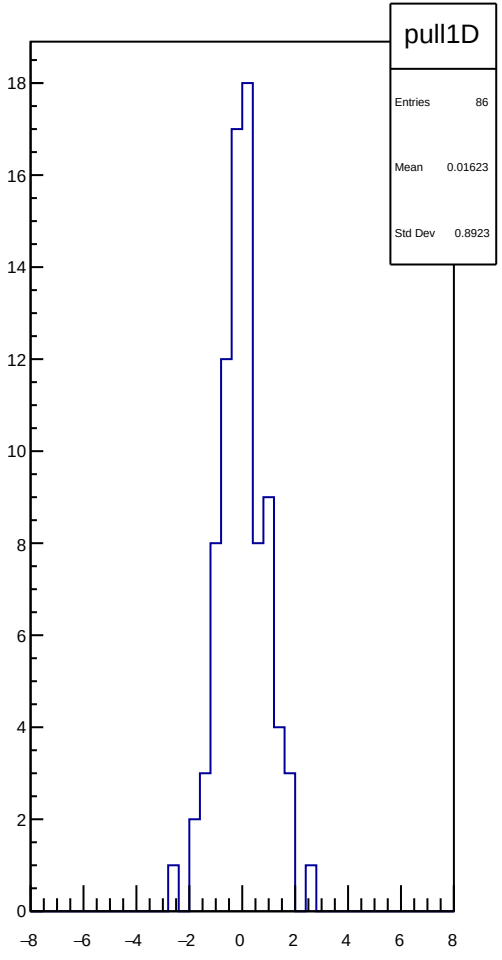

asym_sam1_reg_correction_rms vs run
χ² / ndf 6.04e+04 / 85
p0 517.7 ± 0.4065
750
700
650
600
550
500
450
400
350

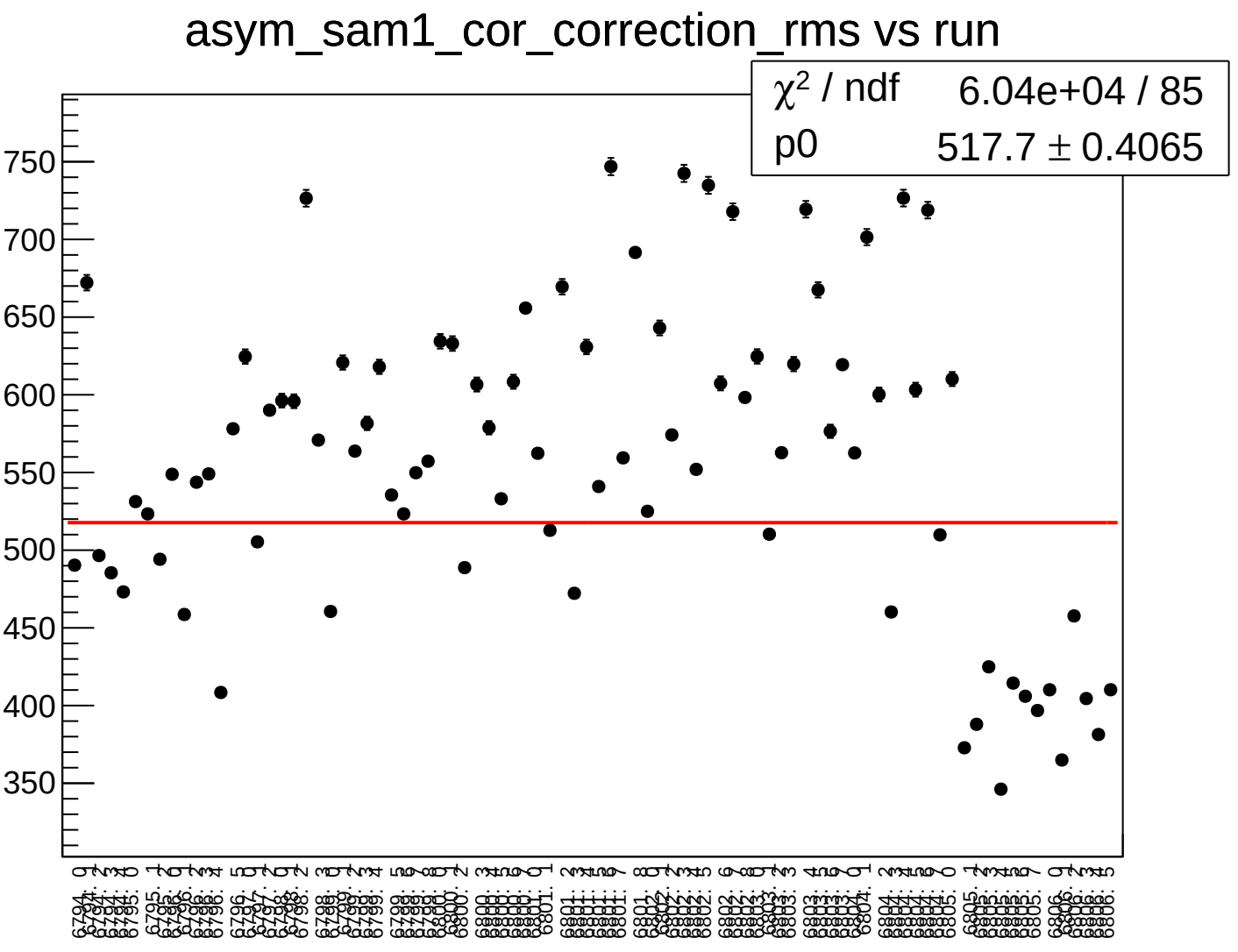

cor_asym_sam1_mean vs run
χ² / ndf 98.47 / 85
p0 87.75 ± 100.1
pull
Entries 86
Mean 339.9
Std Dev 0

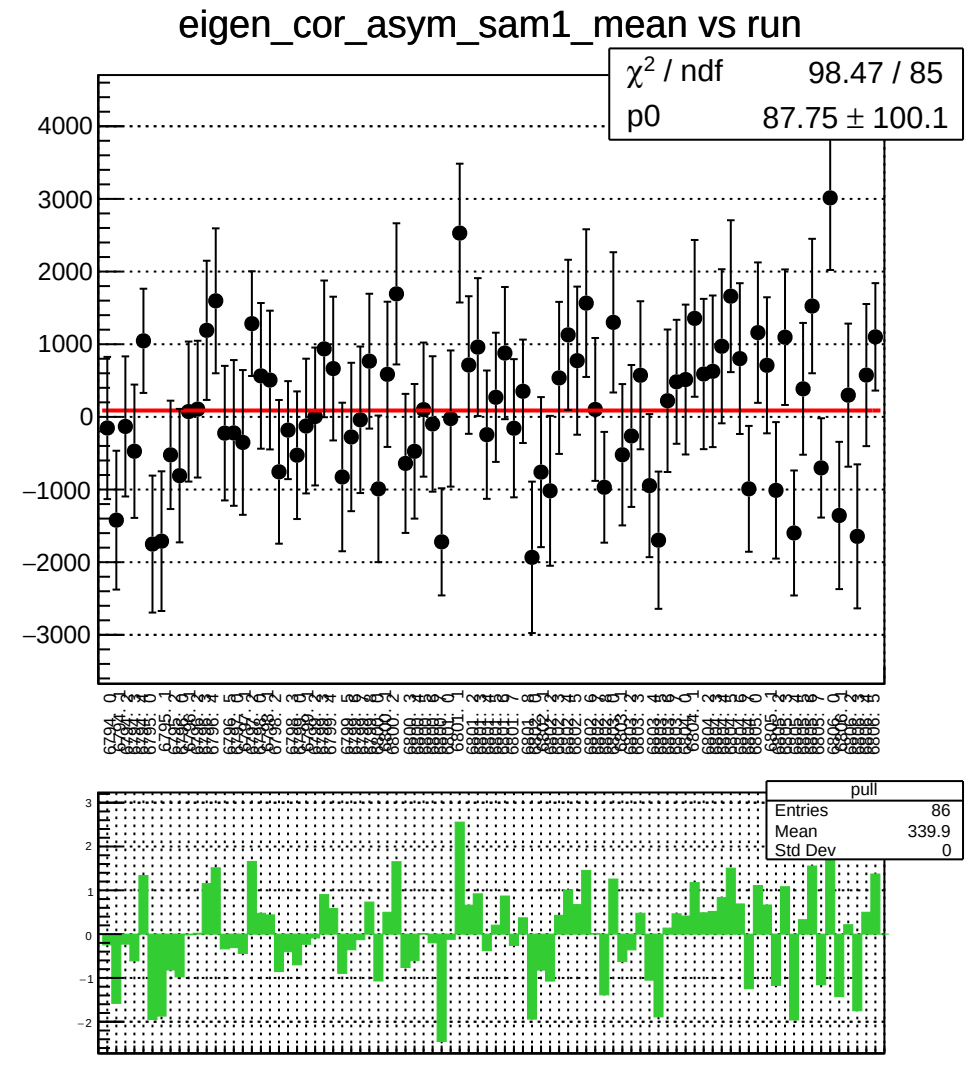

pull1D
Entries 86
Mean 0.01327
Std Dev 1.07

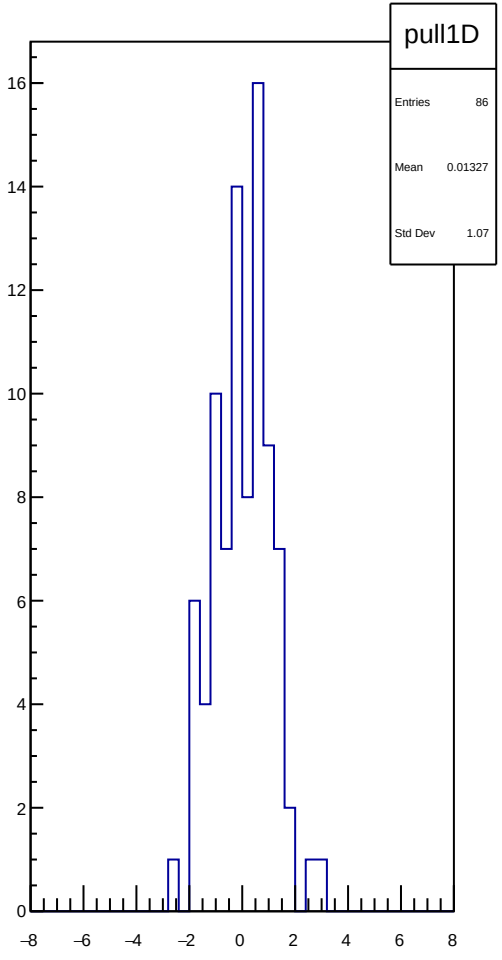

cor_asym_sam1_rms vs run
χ² / ndf 3852 / 85
p0 91.68 ± 0.07077
105
100
95
90
85
80

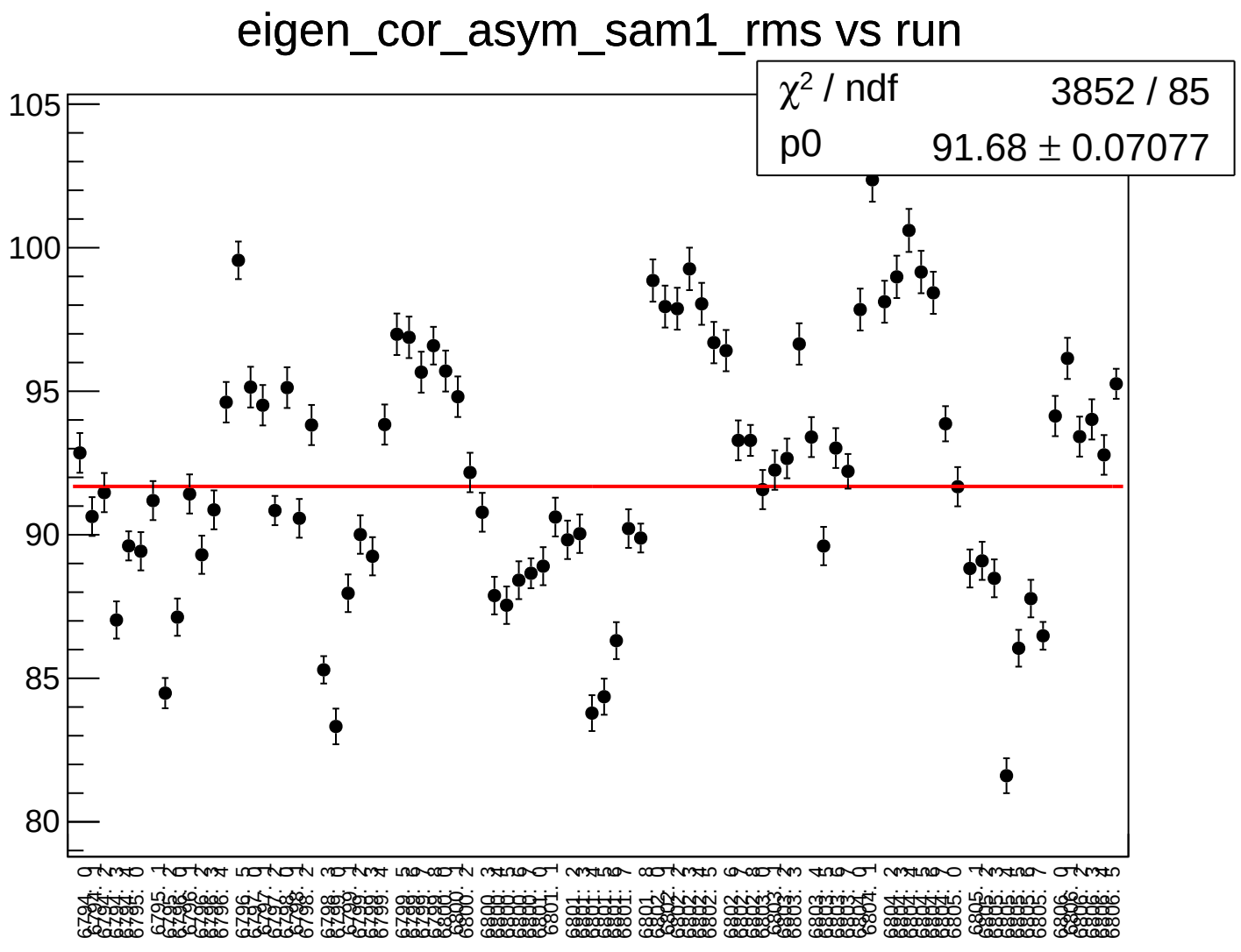

asym_sam1_cor_correction_mean vs run
χ² / ndf 68.5 / 85
p0 548.6 ± 574.9
pull
Entries 86
Mean −46.21
Std Dev 0

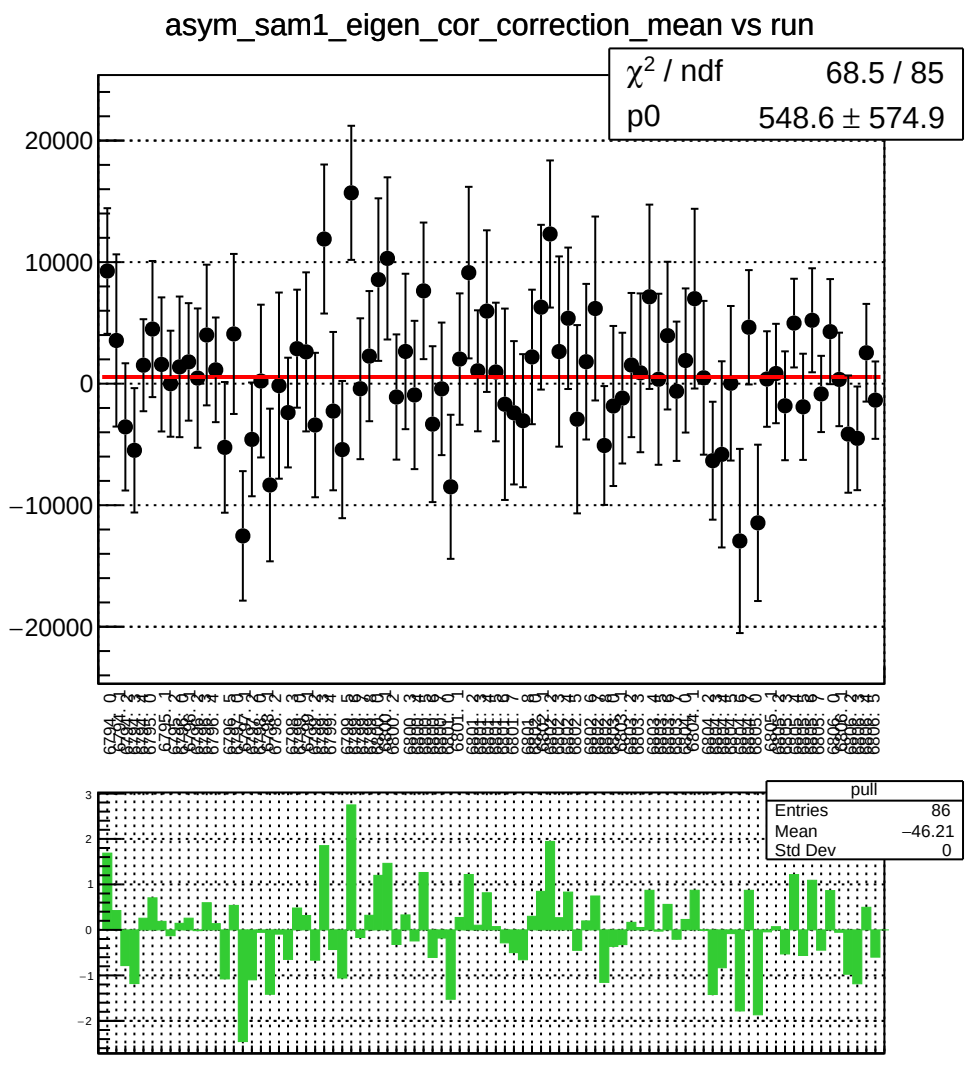

pull1D
Entries 86
Mean 0.01623
Std Dev 0.8923

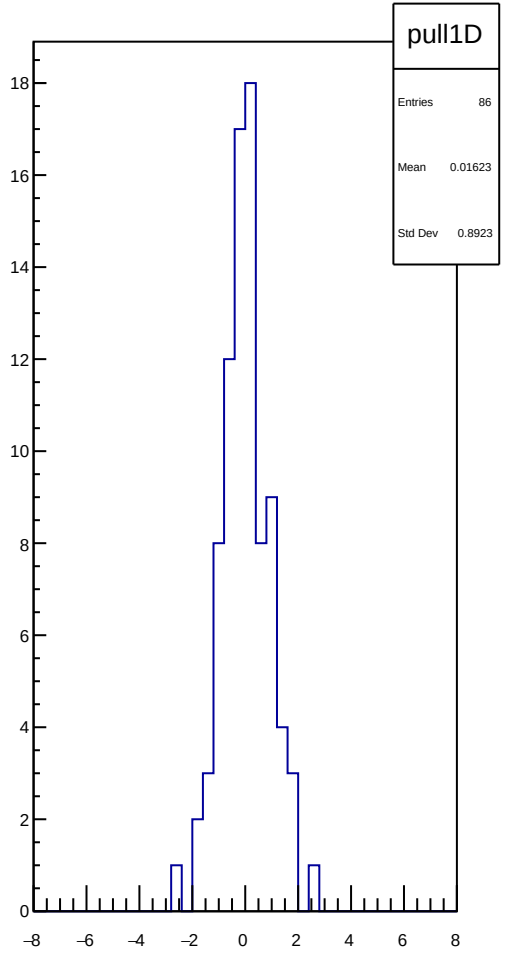

asym_sam1_cor_correction_rms vs run
χ² / ndf 6.04e+04 / 85
p0 517.7 ± 0.4065
750
700
650
600
550
500
450
400
350

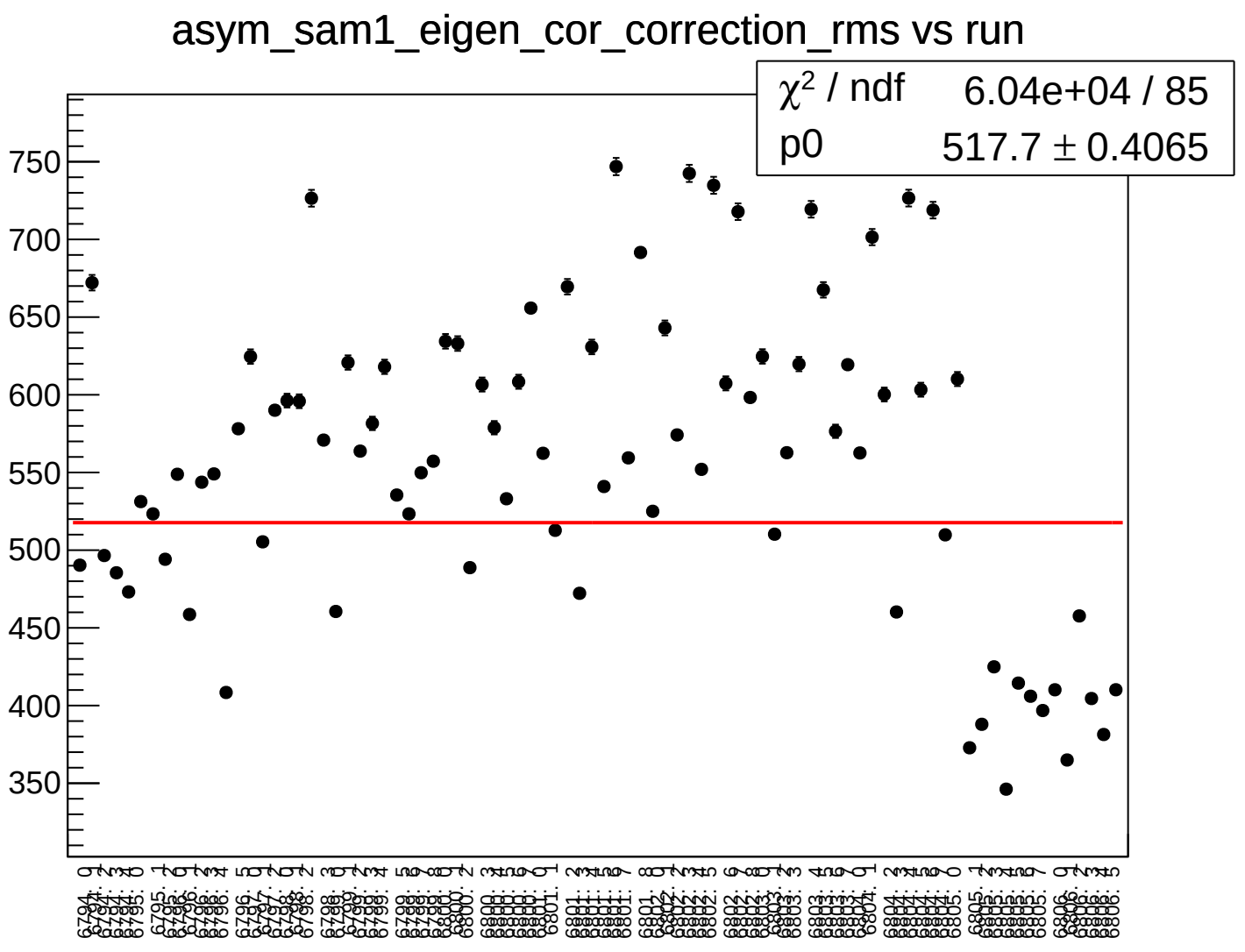

eigen_cor_asym_sam1_mean vs run
χ² / ndf 98.47 / 85
p0 87.75 ± 100.1
pull
Entries 86
Mean 339.9
Std Dev 0

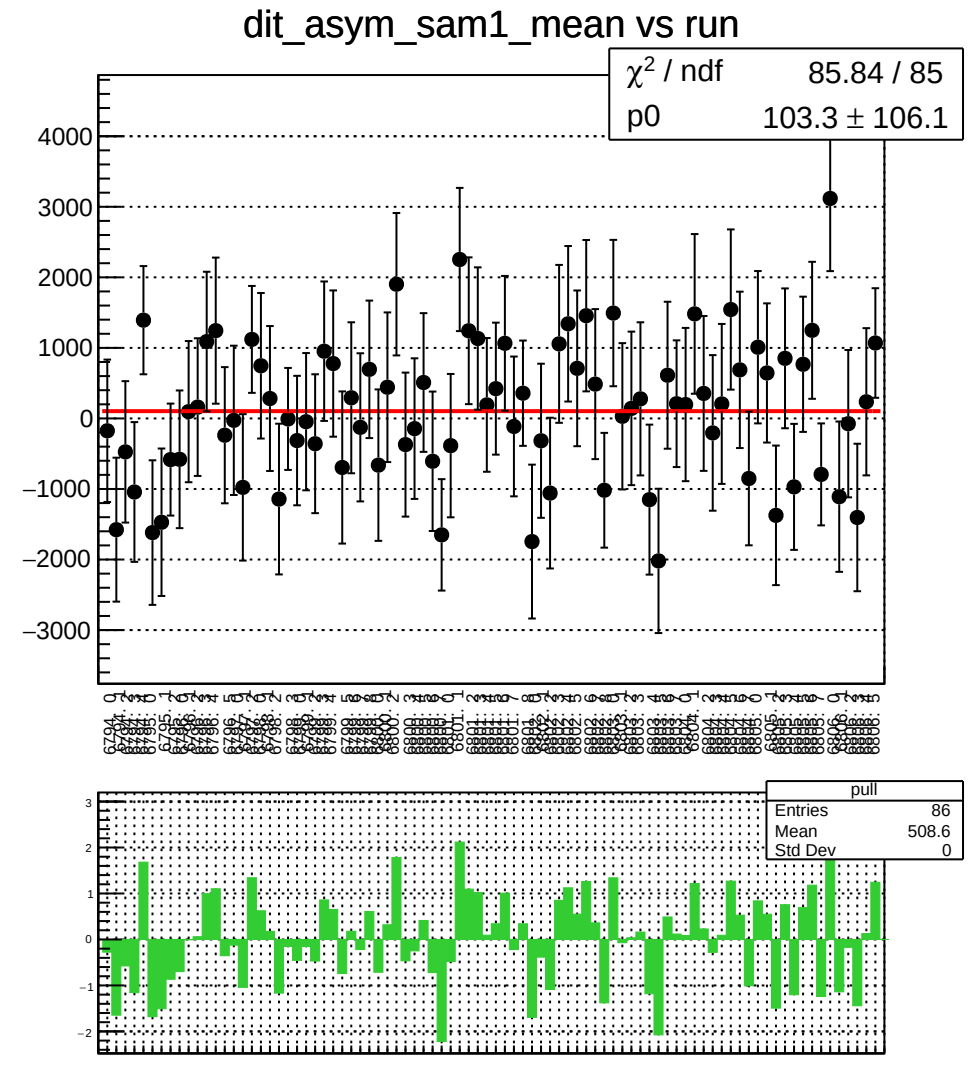

pull1D
Entries 86
Mean 0.01327
Std Dev 1.07

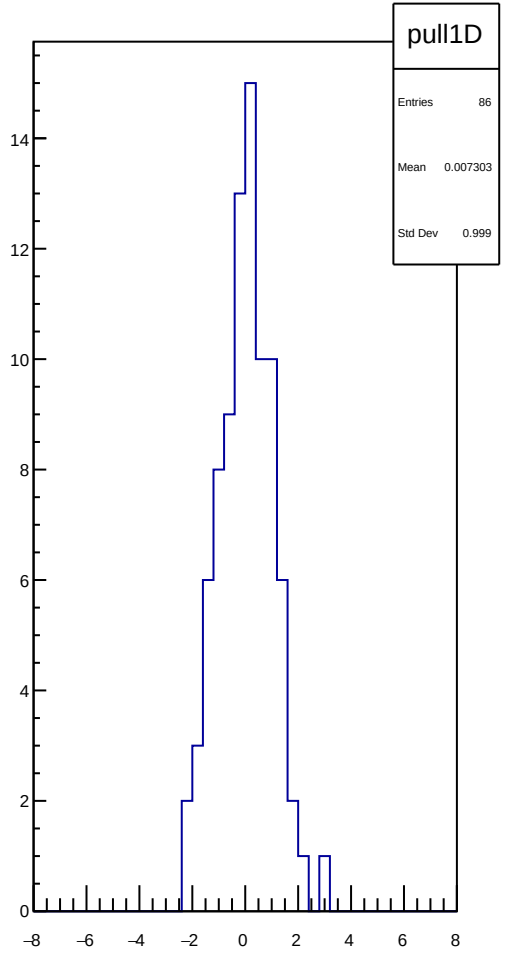

eigen_cor_asym_sam1_rms vs run
χ² / ndf 3852 / 85
p0 91.68 ± 0.07077
105
100
95
90
85
80

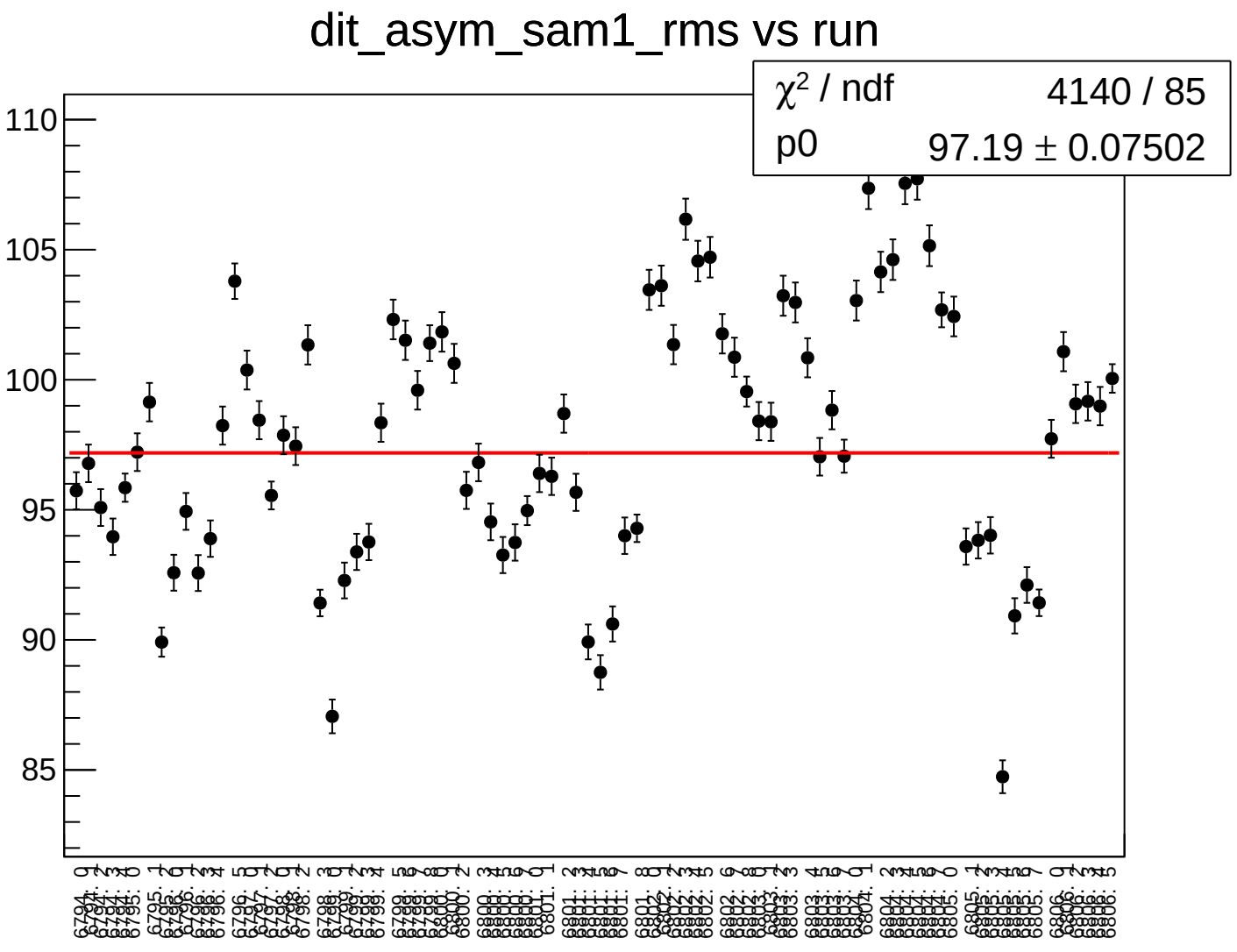

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 68.5 / 85
p0 548.6 ± 574.9
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −46.21
Std Dev 0
3
2
1
0
−1
−2

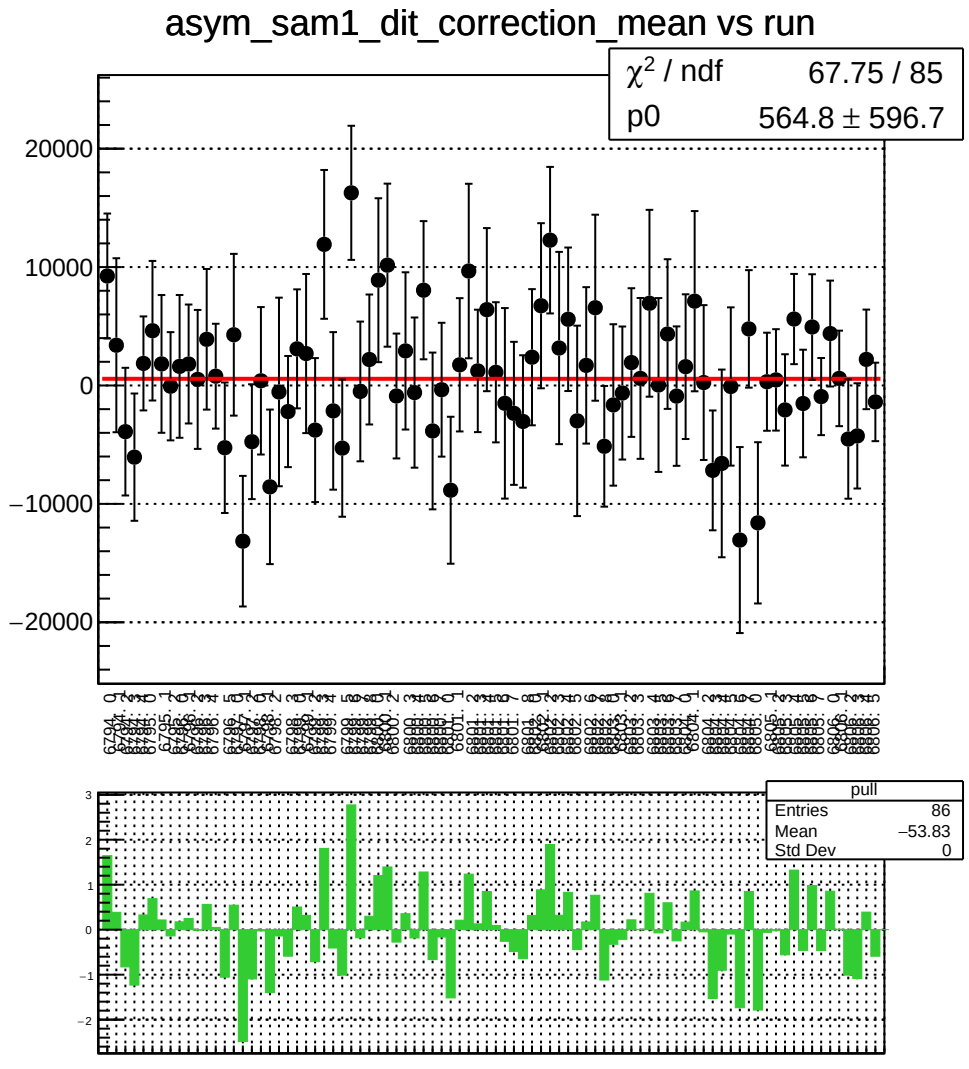

pull1D
Entries 86
Mean 0.01623
Std Dev 0.8923
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

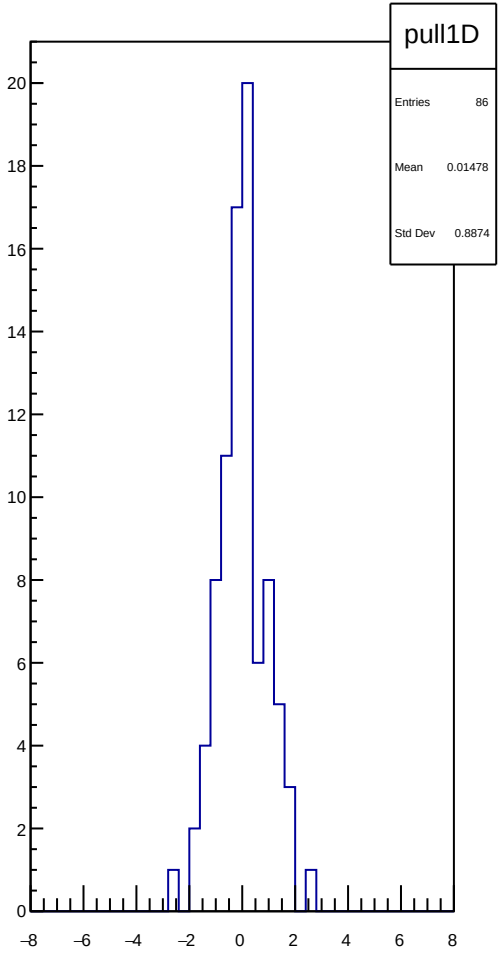

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 6.04e+04 / 85
p0 517.7 ± 0.4065
750
700
650
600
550
500
450
400
350

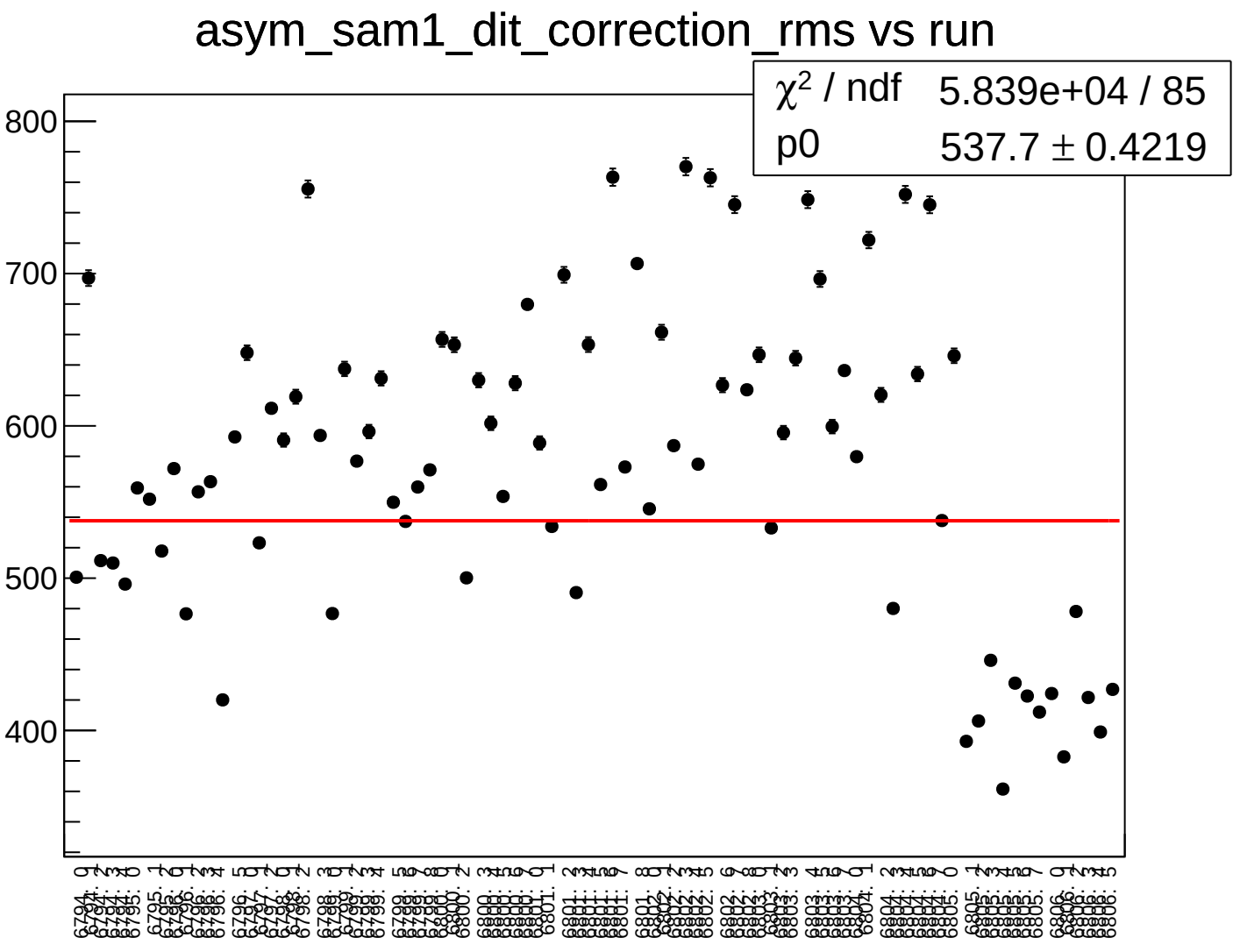

dit_asym_sam1_mean vs run
χ² / ndf 85.84 / 85
p0 103.3 ± 106.1
pull
Entries 86
Mean 508.6
Std Dev 0

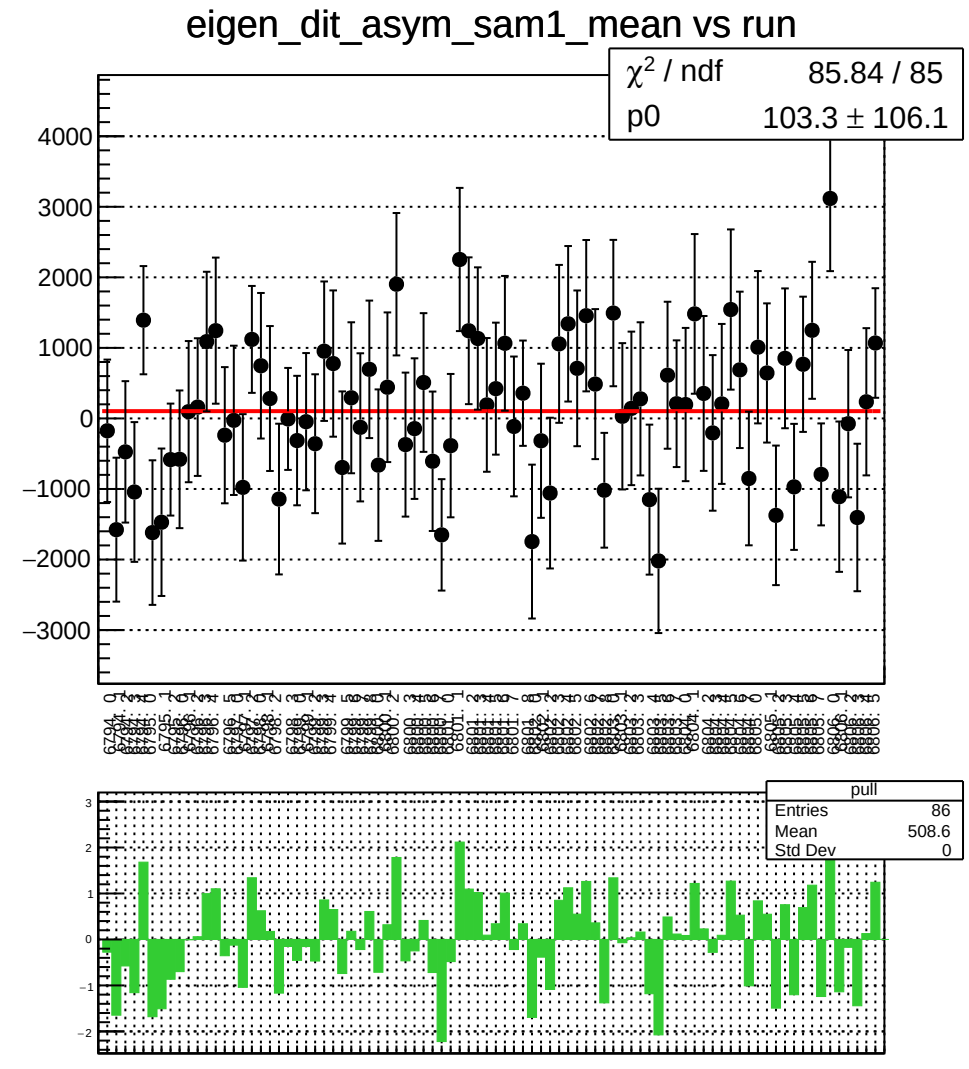

pull1D
Entries 86
Mean 0.007303
Std Dev 0.999

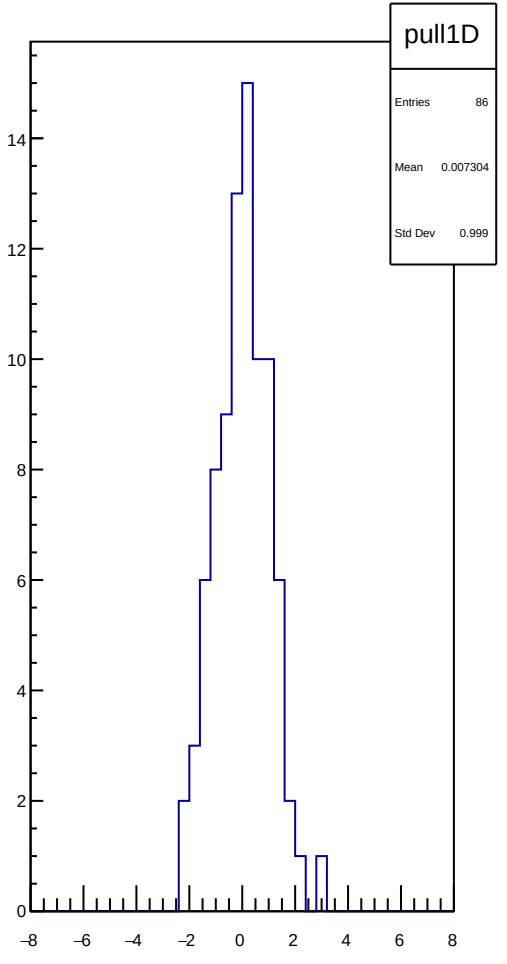

dit_asym_sam1_rms vs run
χ² / ndf 4140 / 85
p0 97.19 ± 0.07502
110
105
100
95
90
85

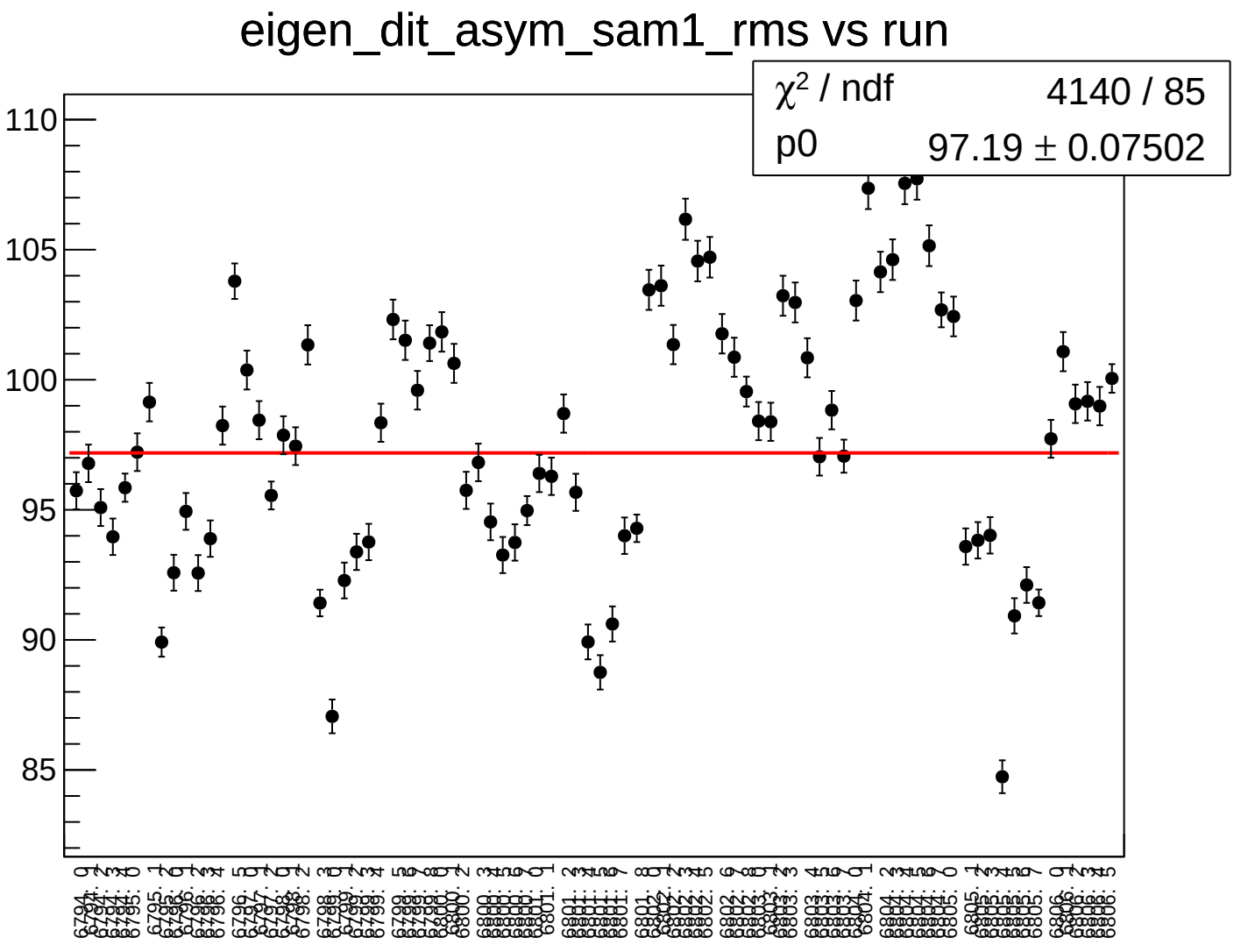

asym_sam1_dit_correction_mean vs run
χ² / ndf 67.75 / 85
p0 564.8 ± 596.7
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −53.83
Std Dev 0
3
2
1
0
−1
−2

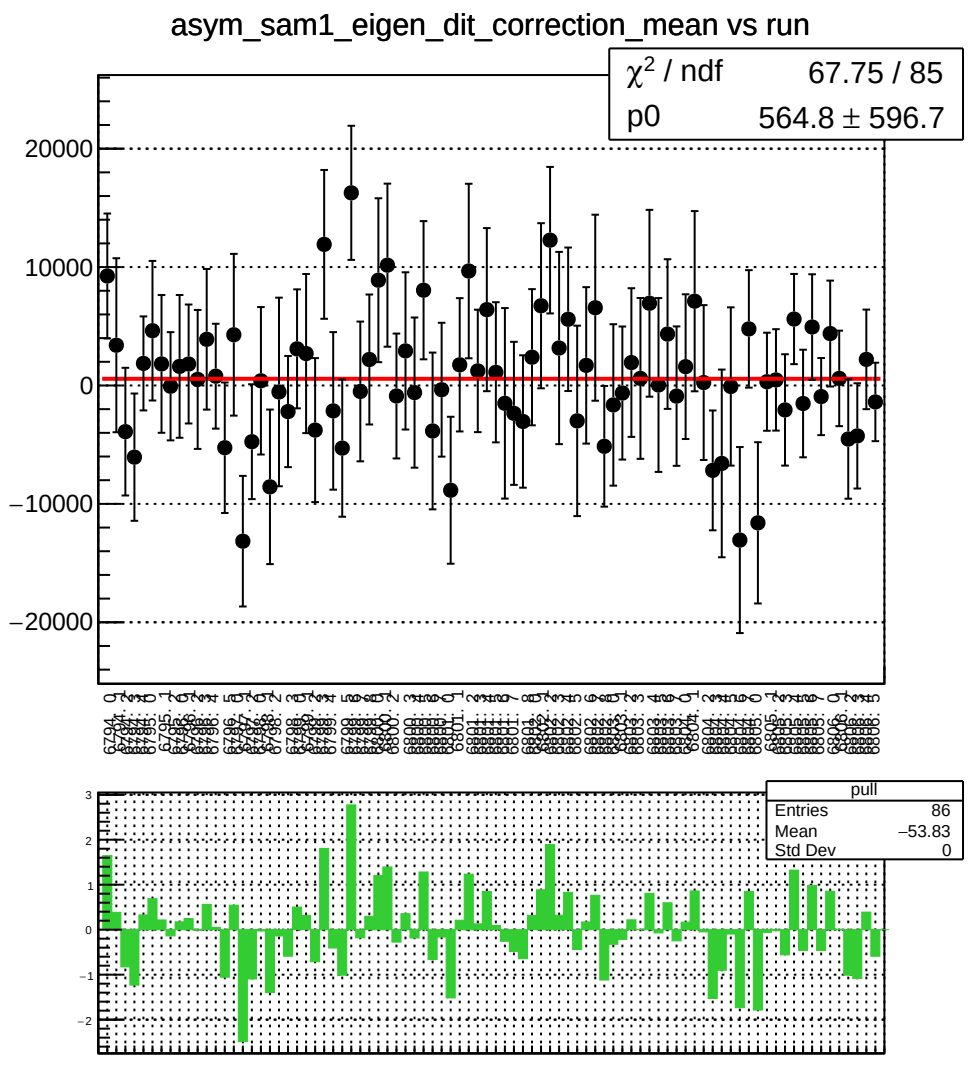

pull1D
Entries 86
Mean 0.01478
Std Dev 0.8874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

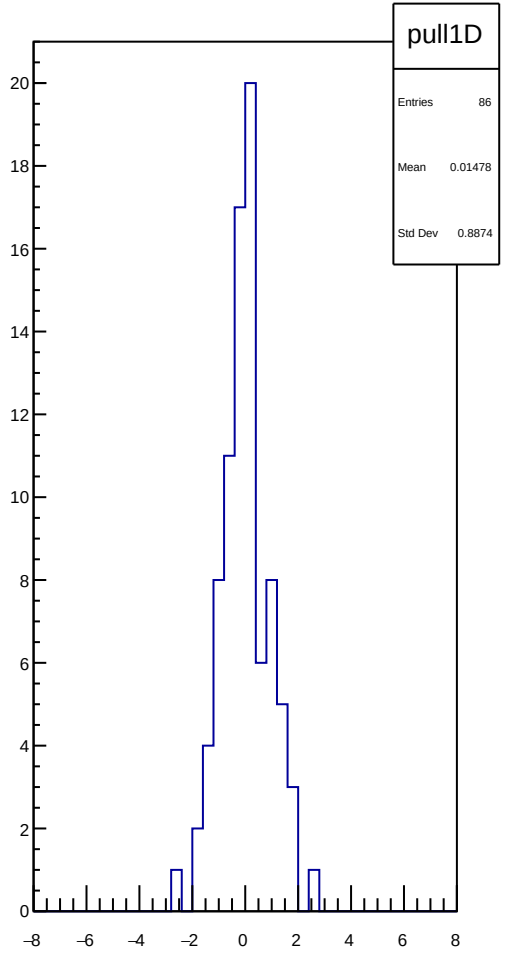

asym_sam1_dit_correction_rms vs run
χ² / ndf 5.839e+04 / 85
p0 537.7 ± 0.4219
800
700
600
500
400

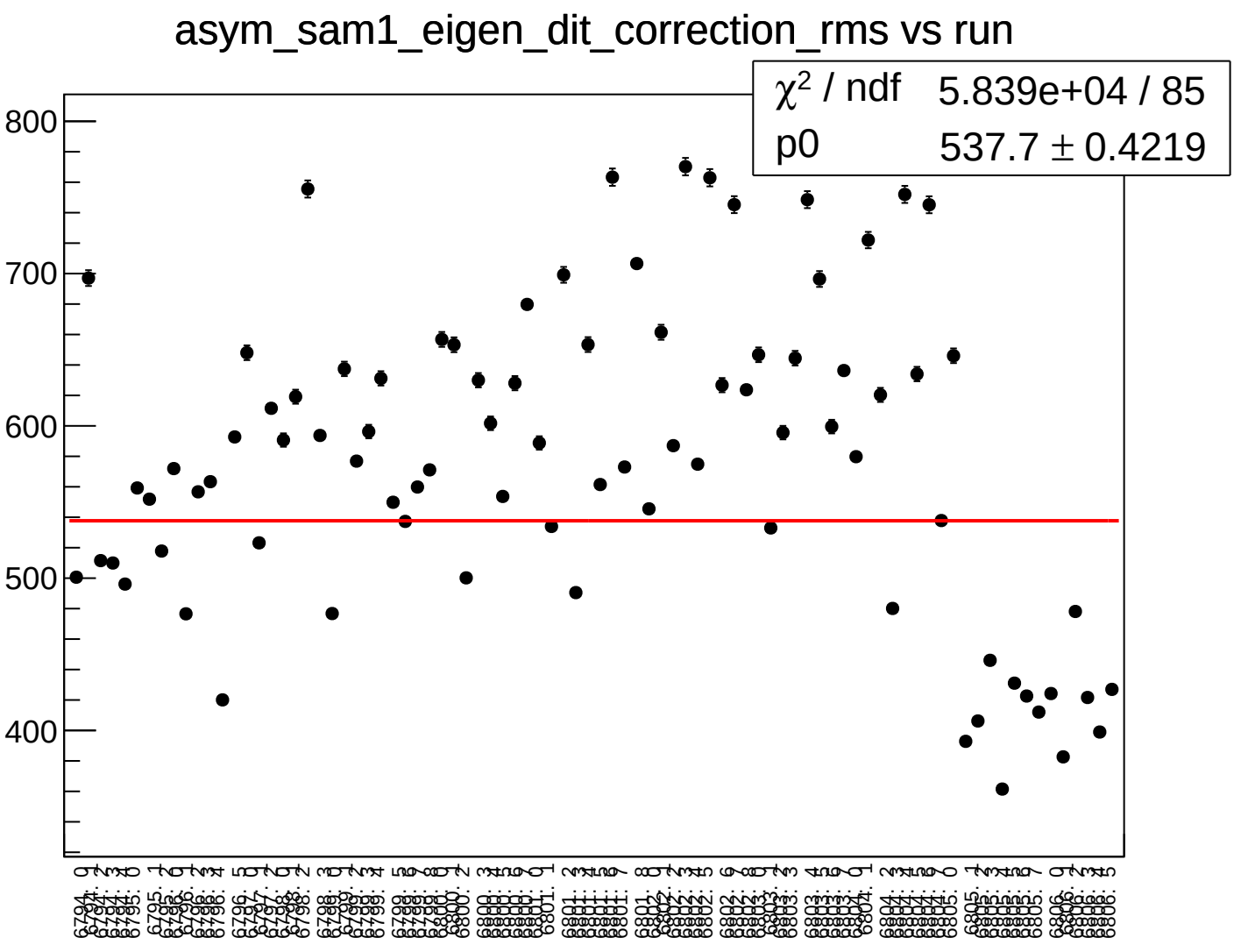

eigen_dit_asym_sam1_mean vs run
χ² / ndf 85.84 / 85
p0 103.3 ± 106.1
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 508.6
Std Dev 0
3
2
1
0
−1
−2

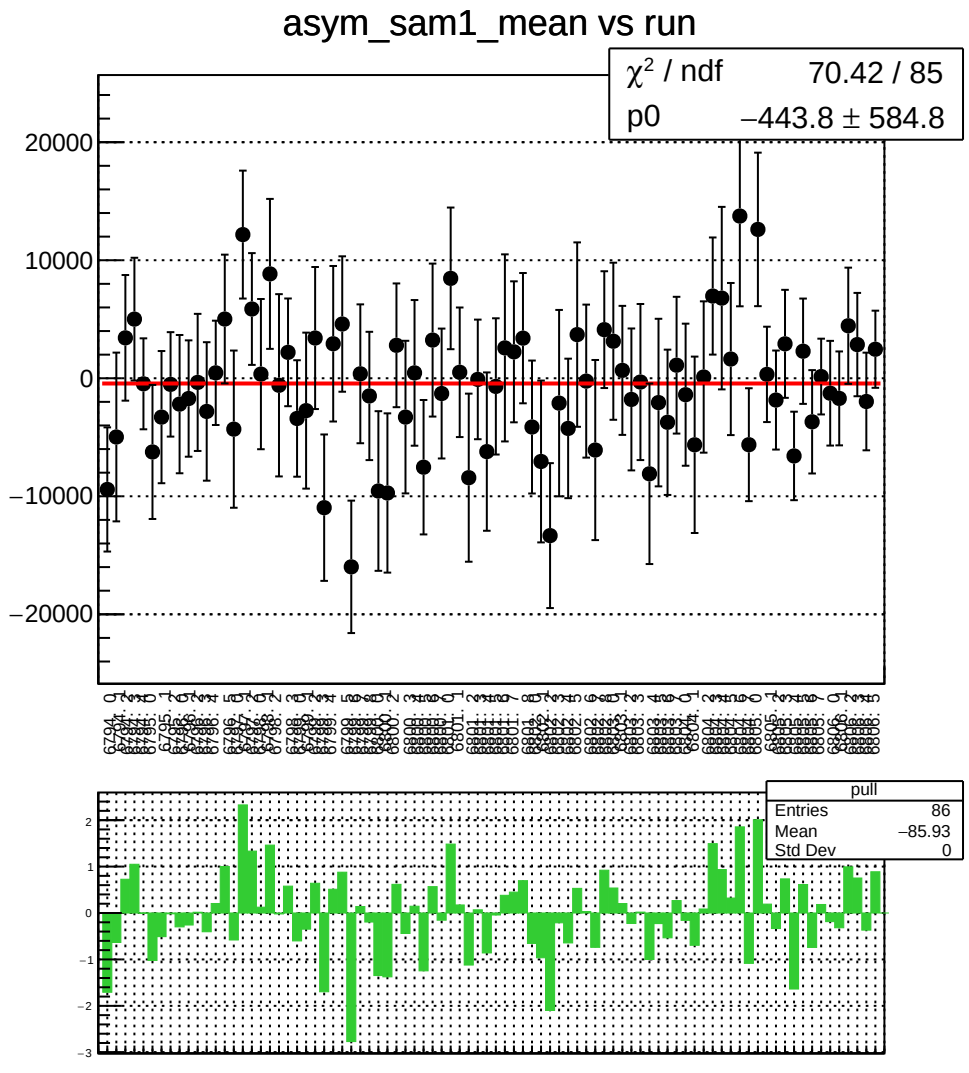

pull1D
Entries 86
Mean 0.007304
Std Dev 0.999
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

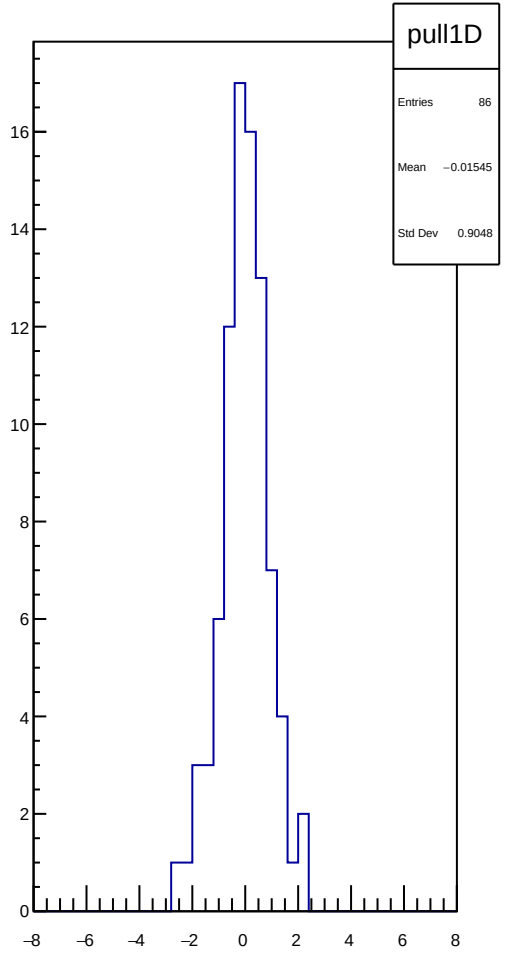

eigen_dit_asym_sam1_rms vs run
χ² / ndf 4140 / 85
p0 97.19 ± 0.07502
110
105
100
95
90
85

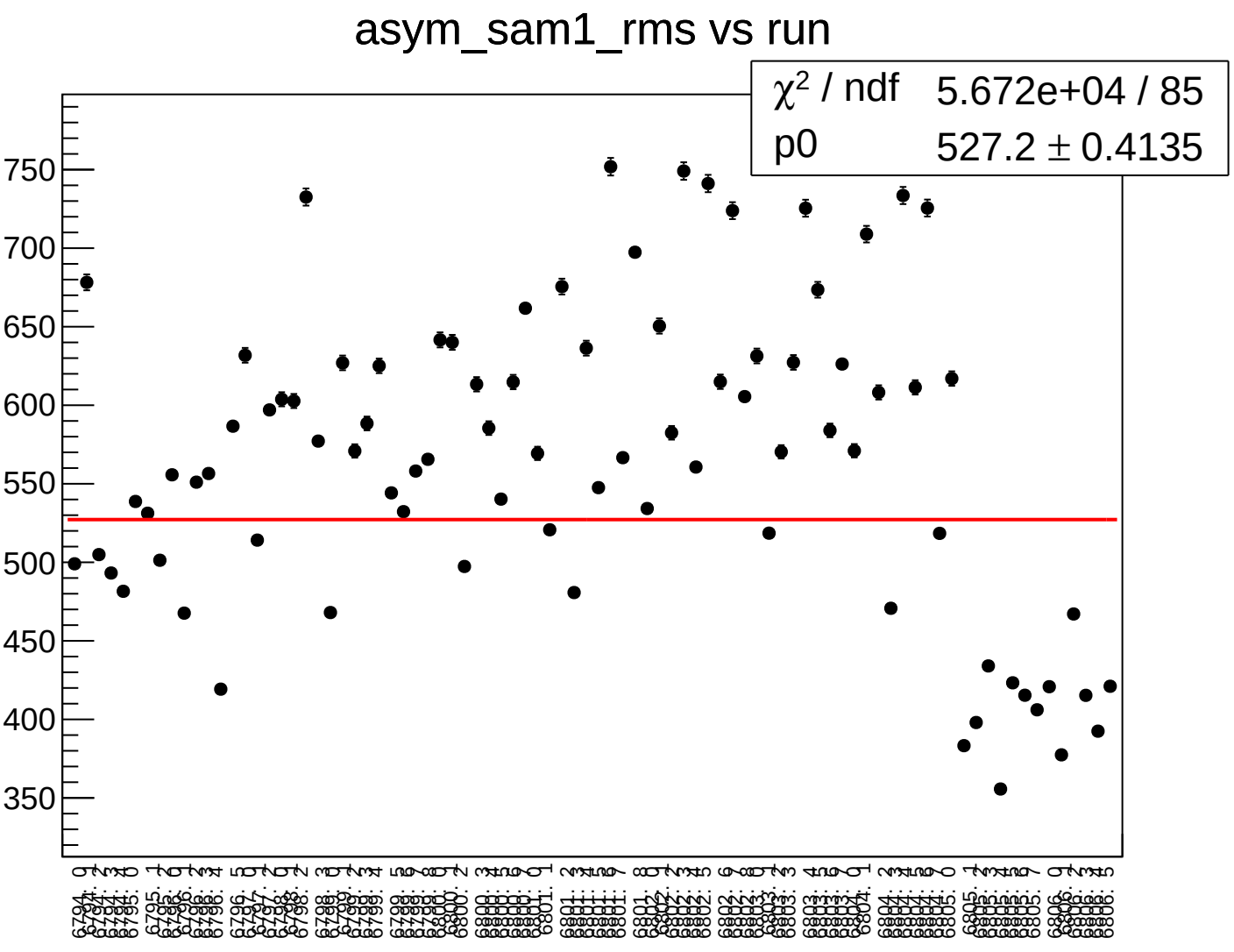

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 67.75 / 85
p0 564.8 ± 596.7
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −53.83
Std Dev 0
3
2
1
0
−1
−2

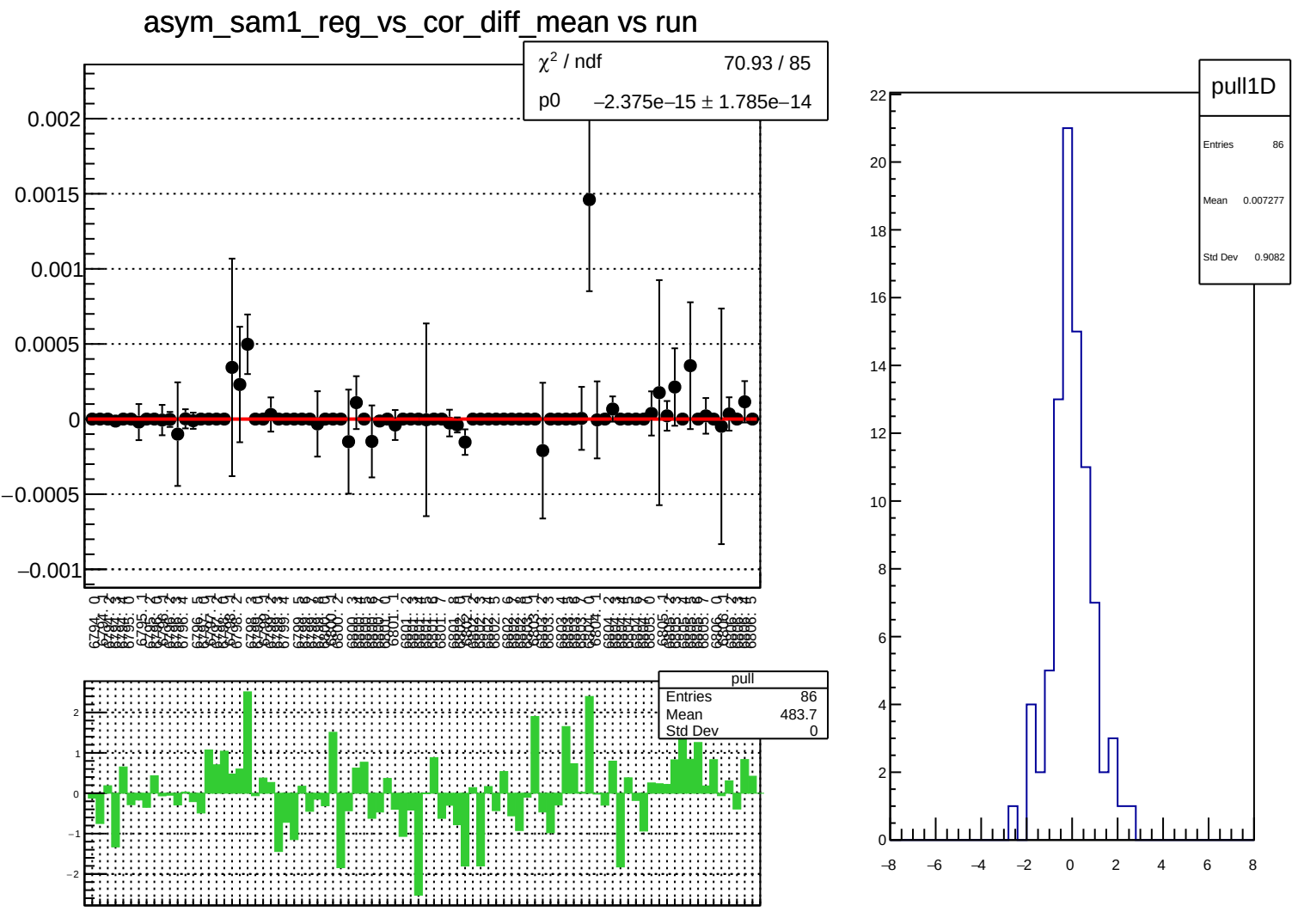

pull1D
Entries 86
Mean 0.01478
Std Dev 0.8874
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

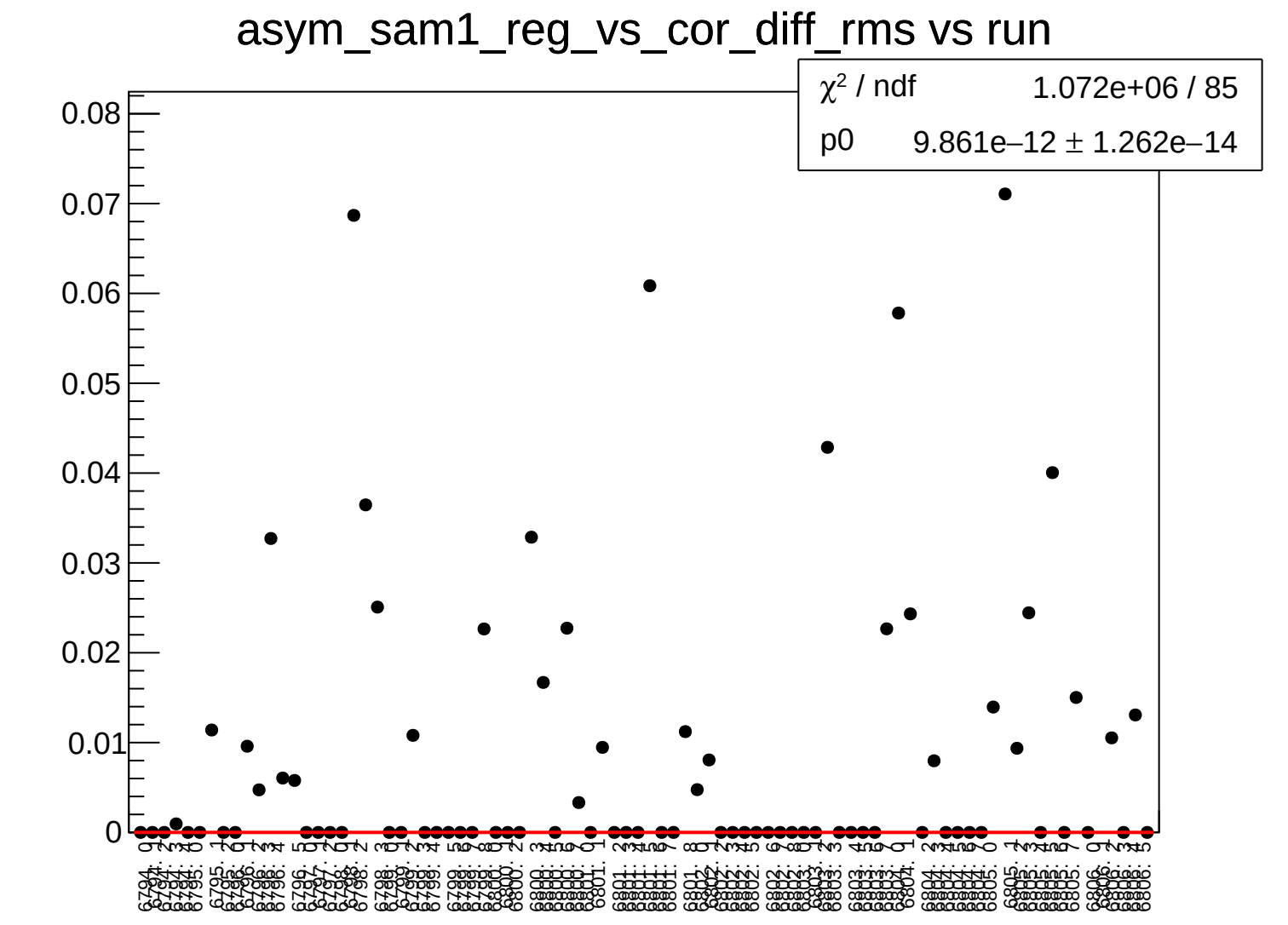

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 5.839e+04 / 85
p0 537.7 ± 0.4219
800
700
600
500
400

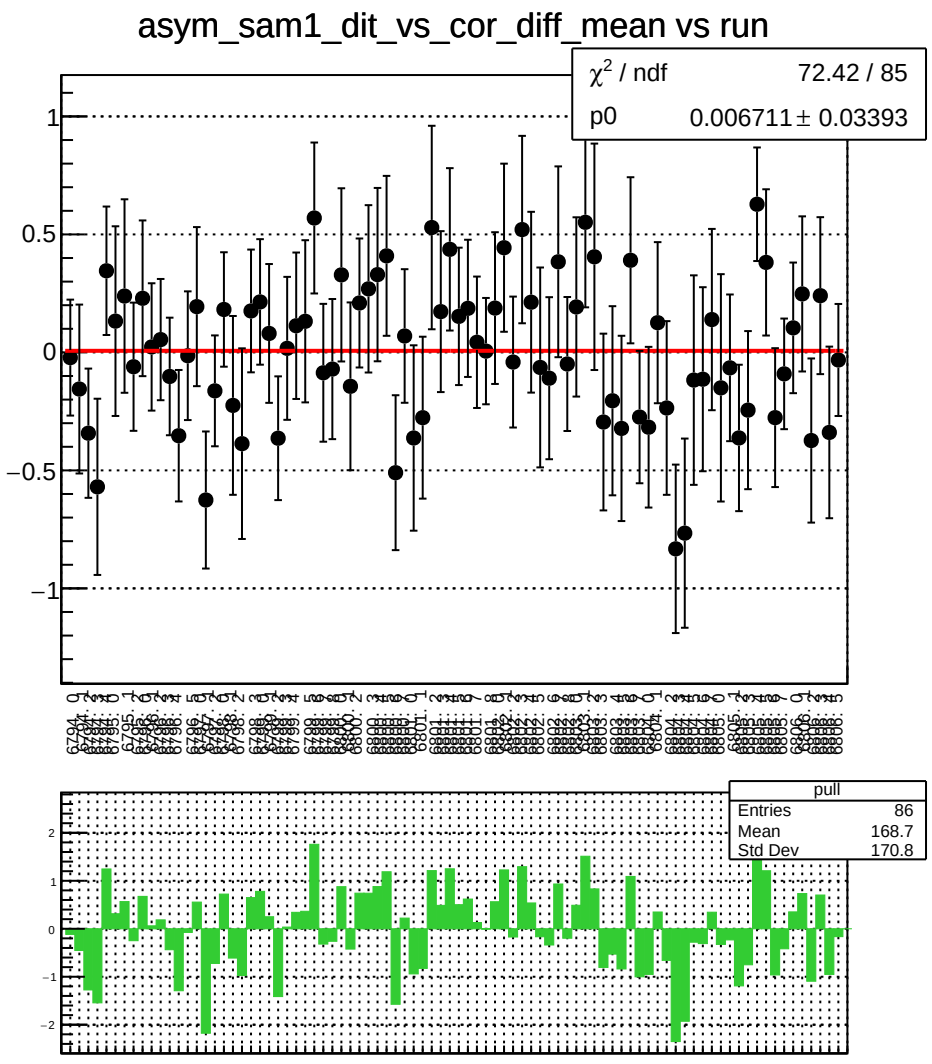

asym_sam1_mean vs run
χ² / ndf 70.42 / 85
p0 −443.8 ± 584.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −85.93
Std Dev 0
2
1
0
−1
−2
−3

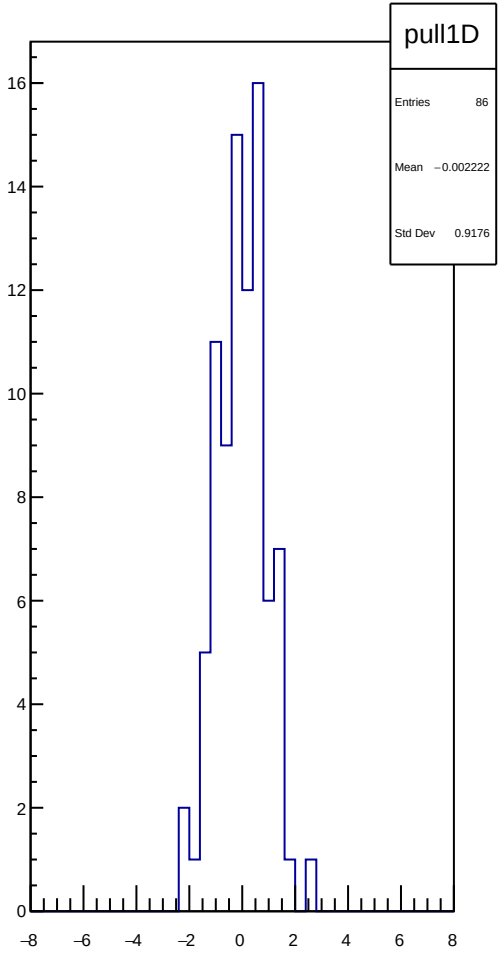

pull1D
Entries 86
Mean −0.01545
Std Dev 0.9048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

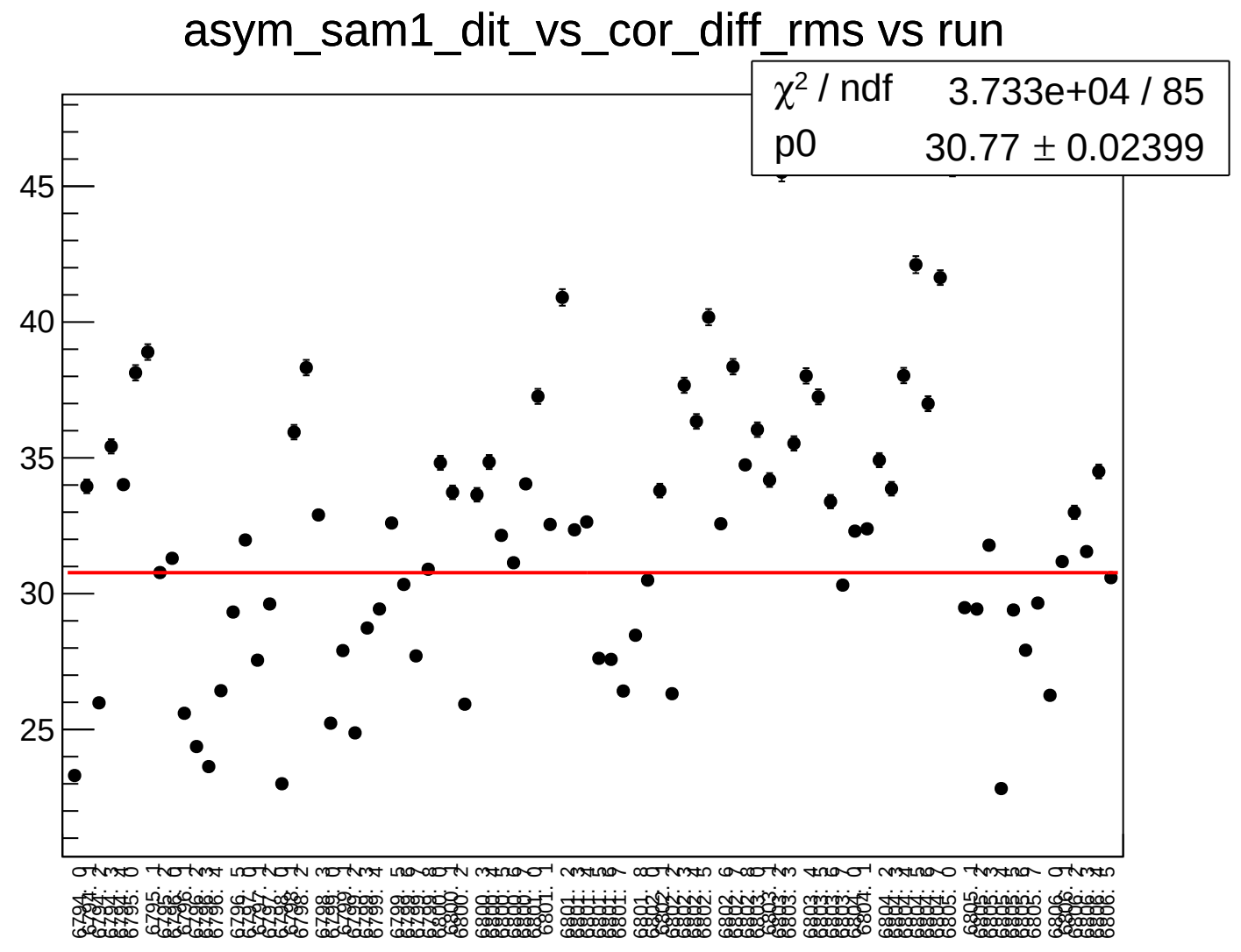

asym_sam1_rms vs run
χ² / ndf 5.672e+04 / 85
p0 527.2 ± 0.4135
750
700
650
600
550
500
450
400
350

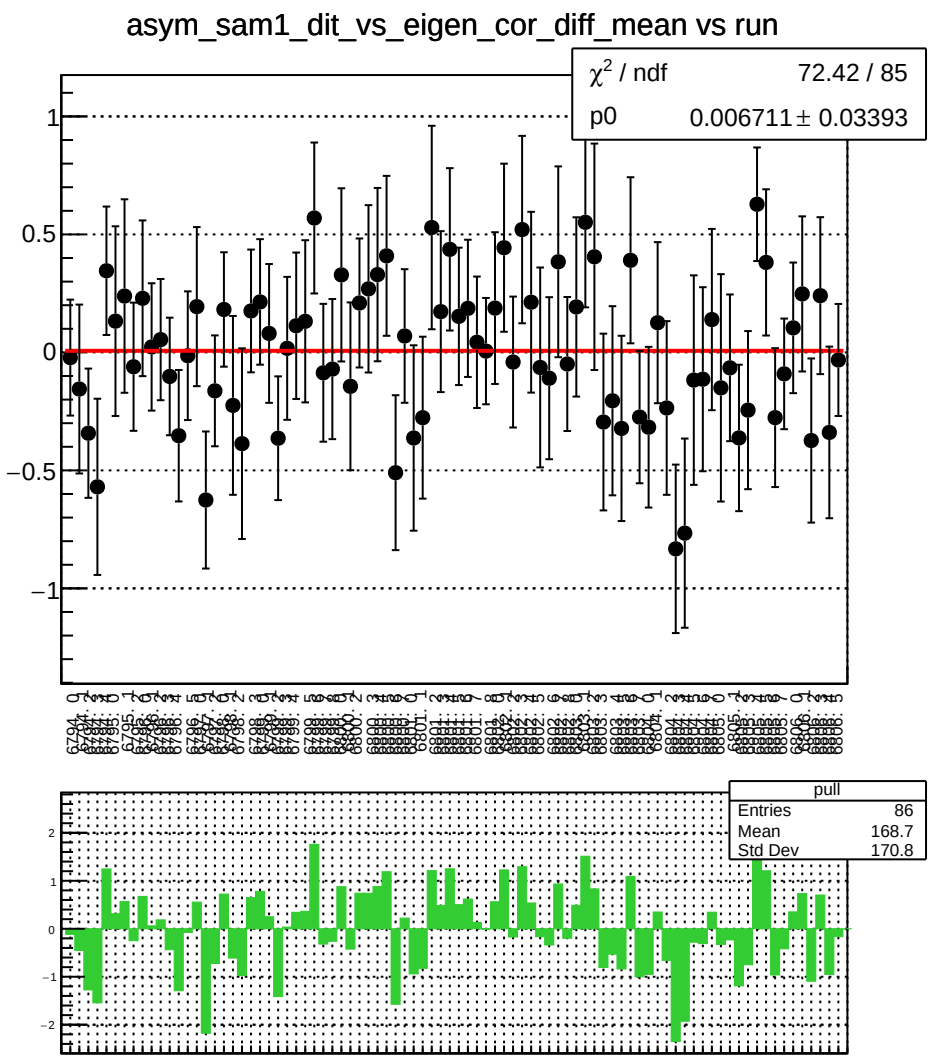

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 70.93 / 85
p0 −2.375e−15 ± 1.785e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 483.7
Std Dev 0
pull1D
Entries 86
Mean 0.007277
Std Dev 0.9082

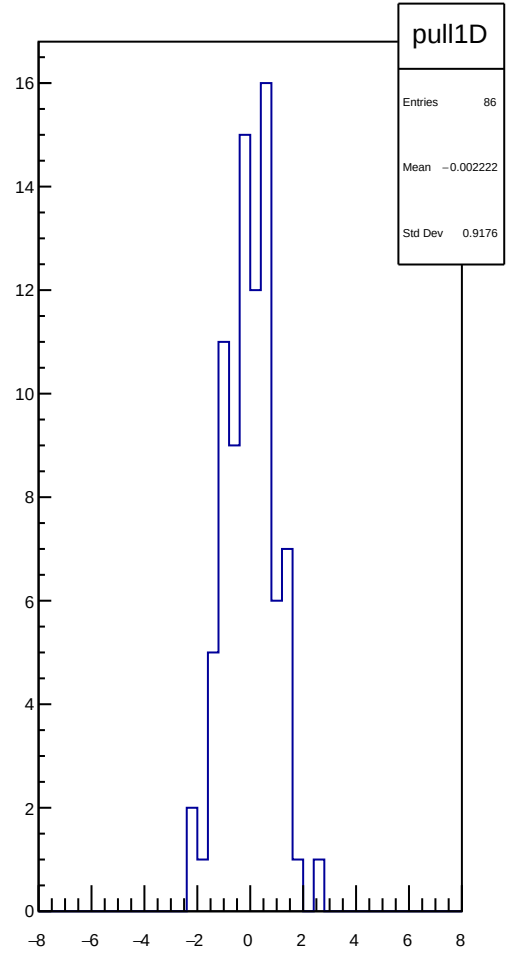

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 85
p0 9.861e−12 ± 1.262e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

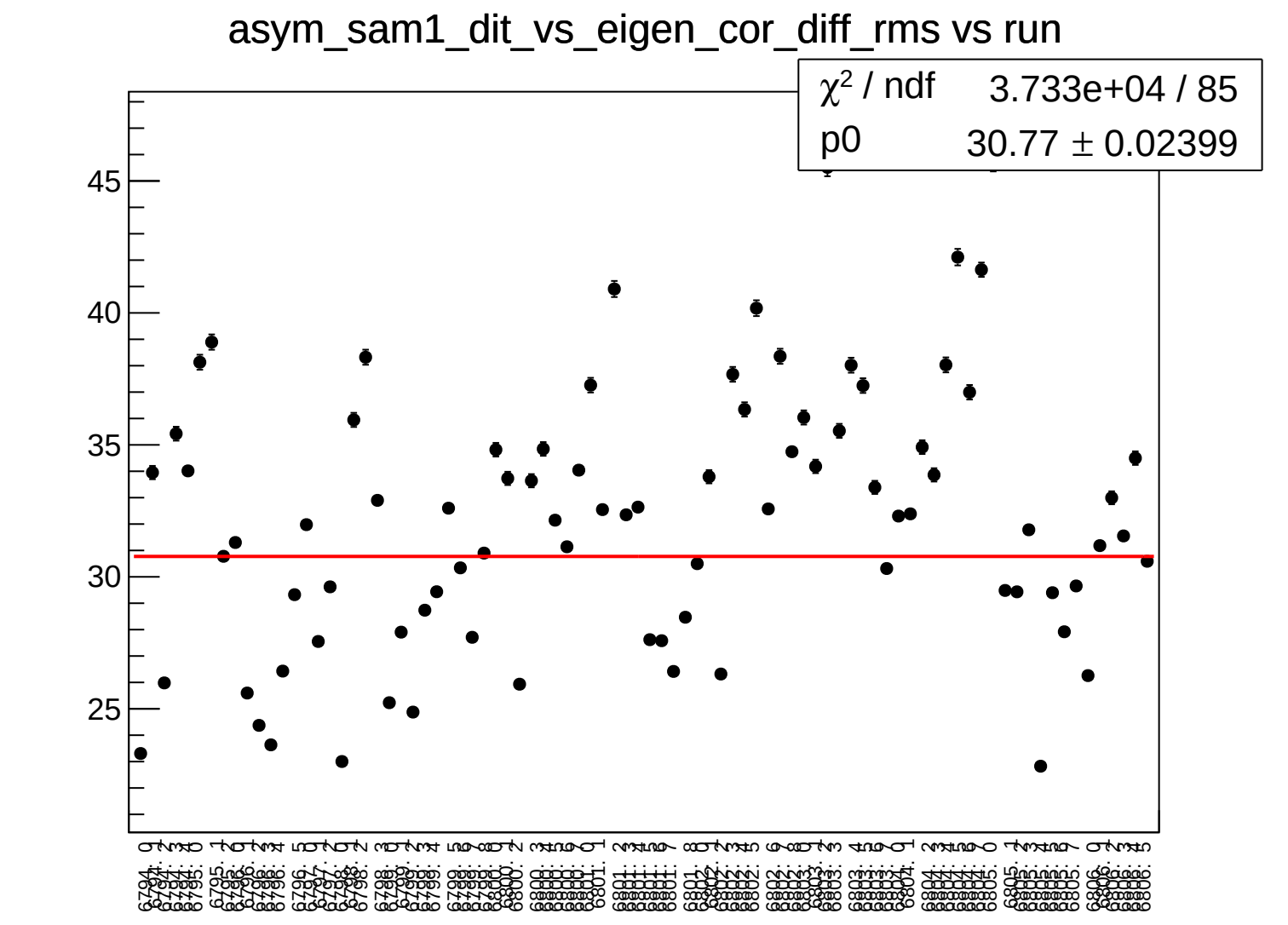

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 72.42 / 85
p0 0.006711 ± 0.03393
pull
Entries 86
Mean 168.7
Std Dev 170.8

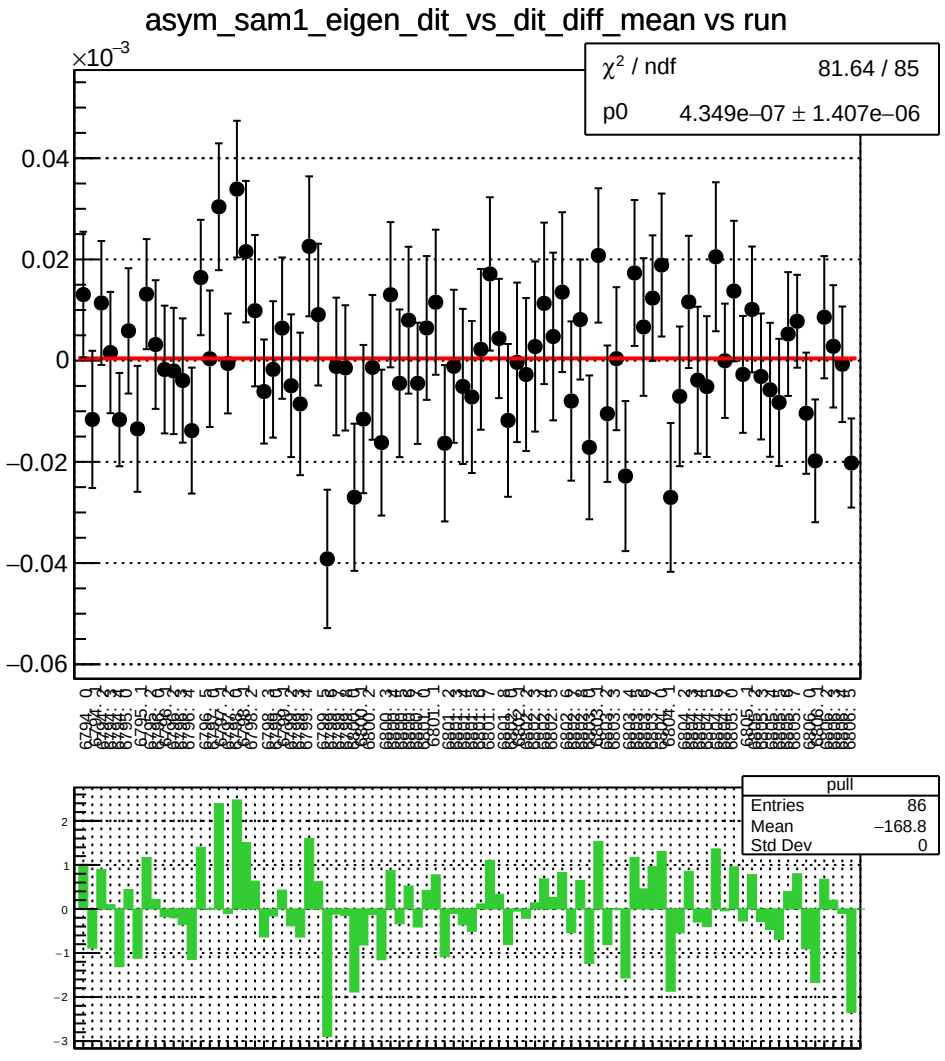

pull1D
Entries 86
Mean −0.002222
Std Dev 0.9176

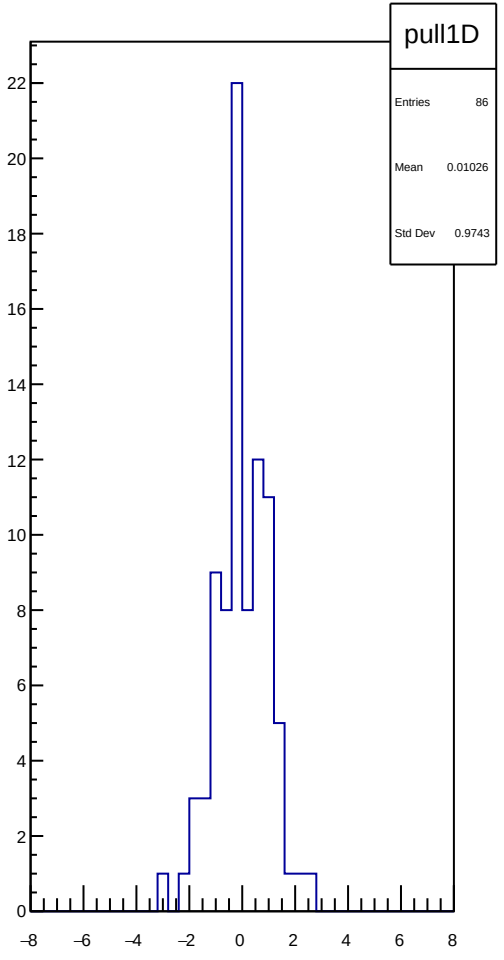

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.733e+04 / 85
p0 30.77 ± 0.02399
45
40
35
30
25

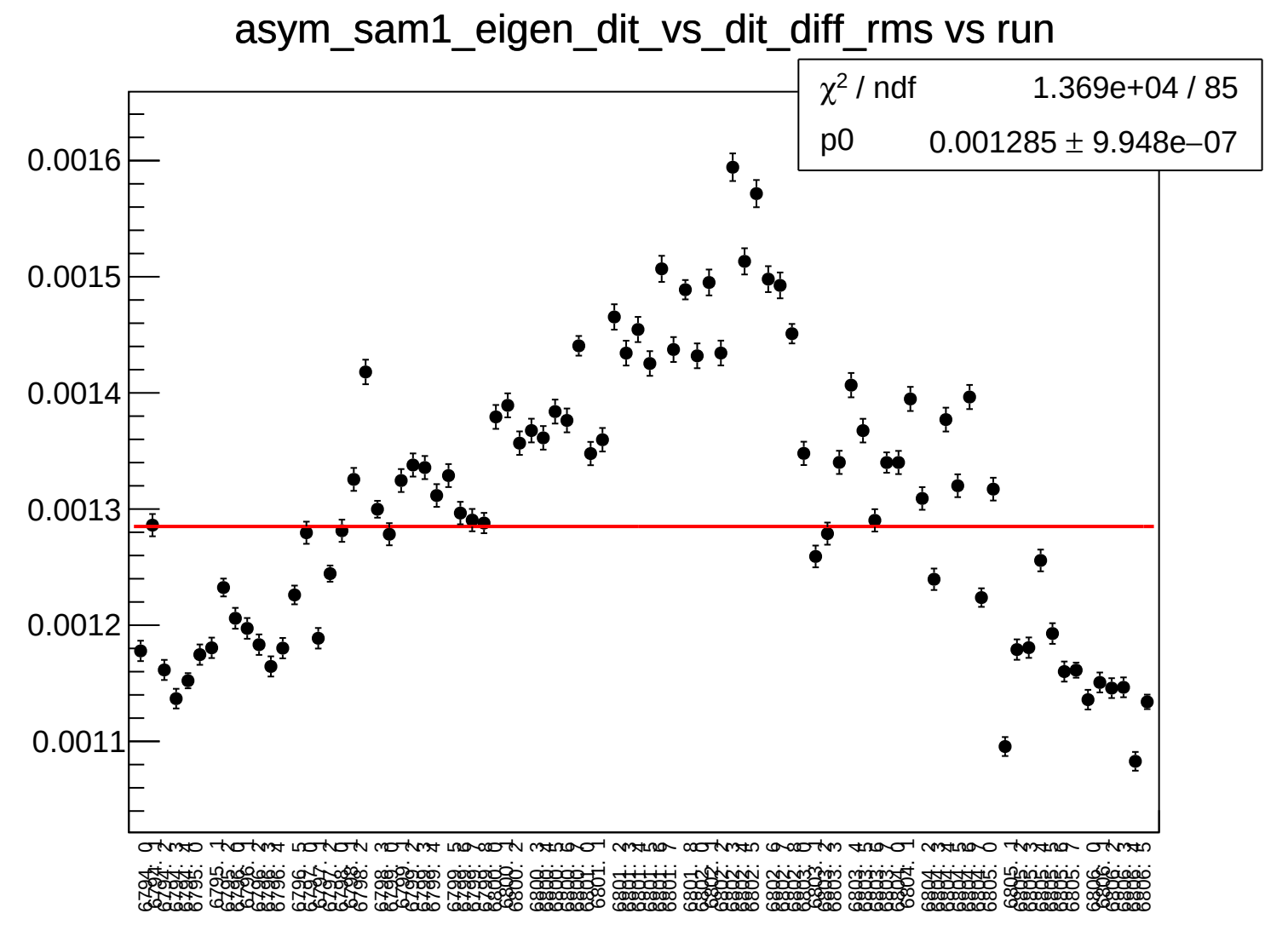

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.42 / 85
p0 0.006711 ± 0.03393
pull
Entries 86
Mean 168.7
Std Dev 170.8

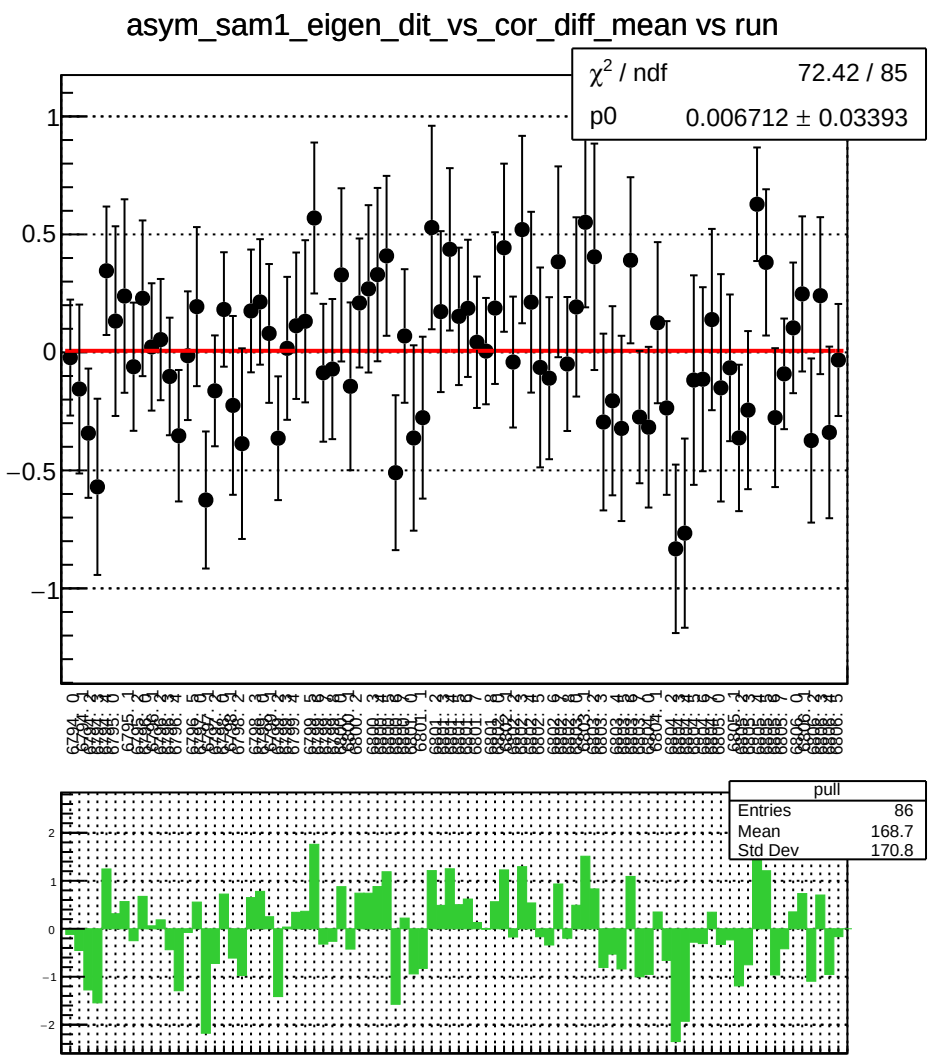

pull1D
Entries 86
Mean −0.002222
Std Dev 0.9176

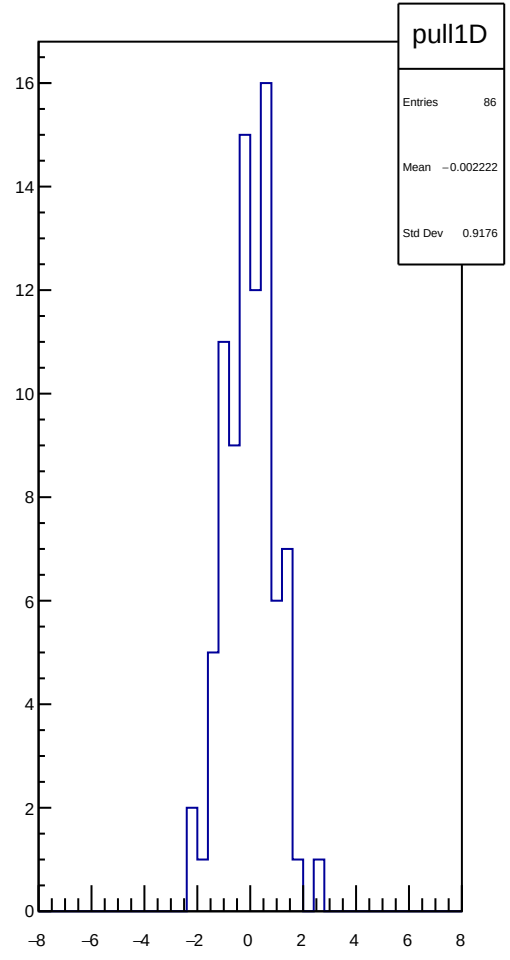

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.733e+04 / 85
p0 30.77 ± 0.02399
45
40
35
30
25

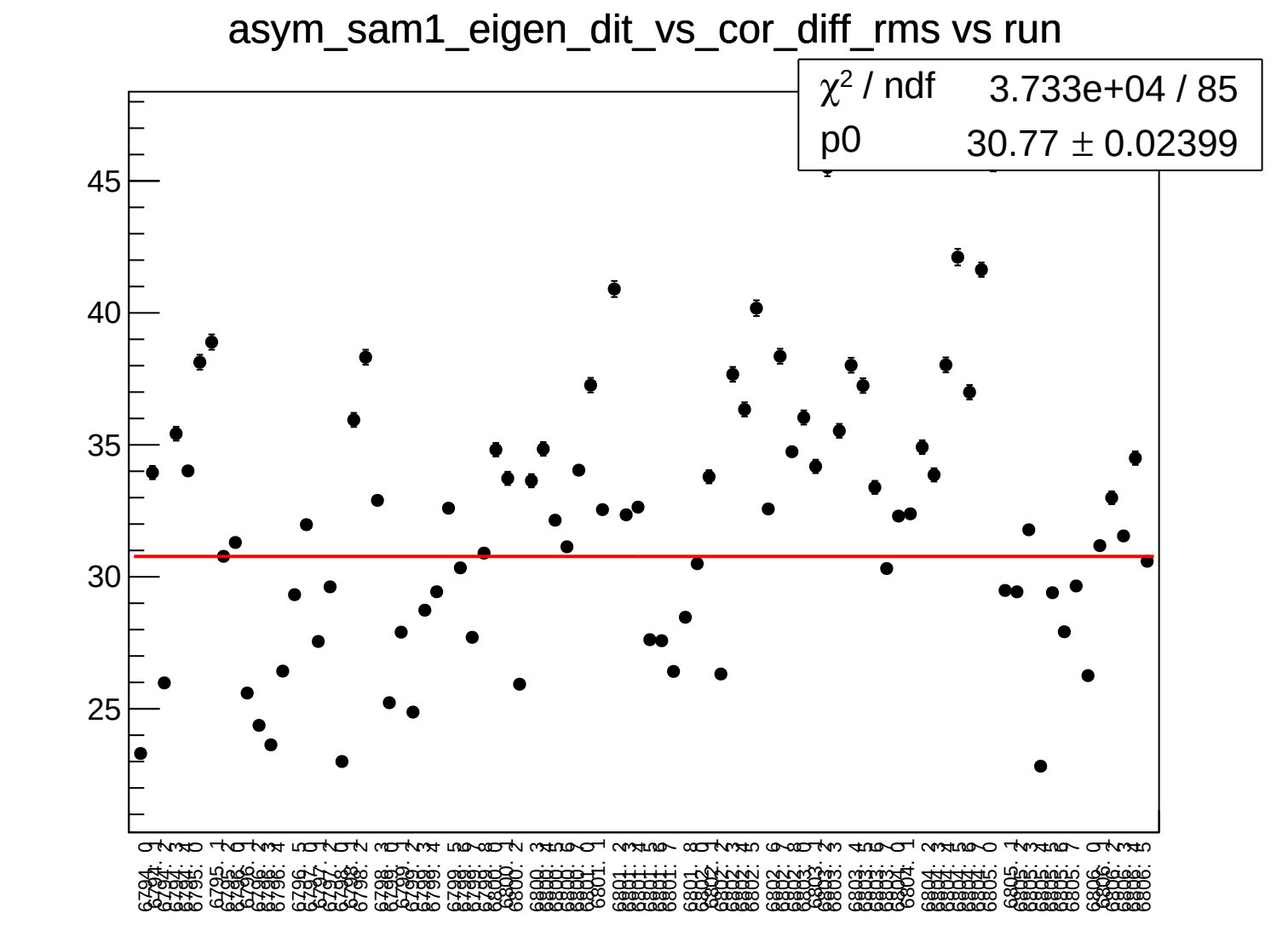

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.64 / 85
p0 4.349e−07 ± 1.407e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −168.8
Std Dev 0
2
1
0
−1
−2
−3

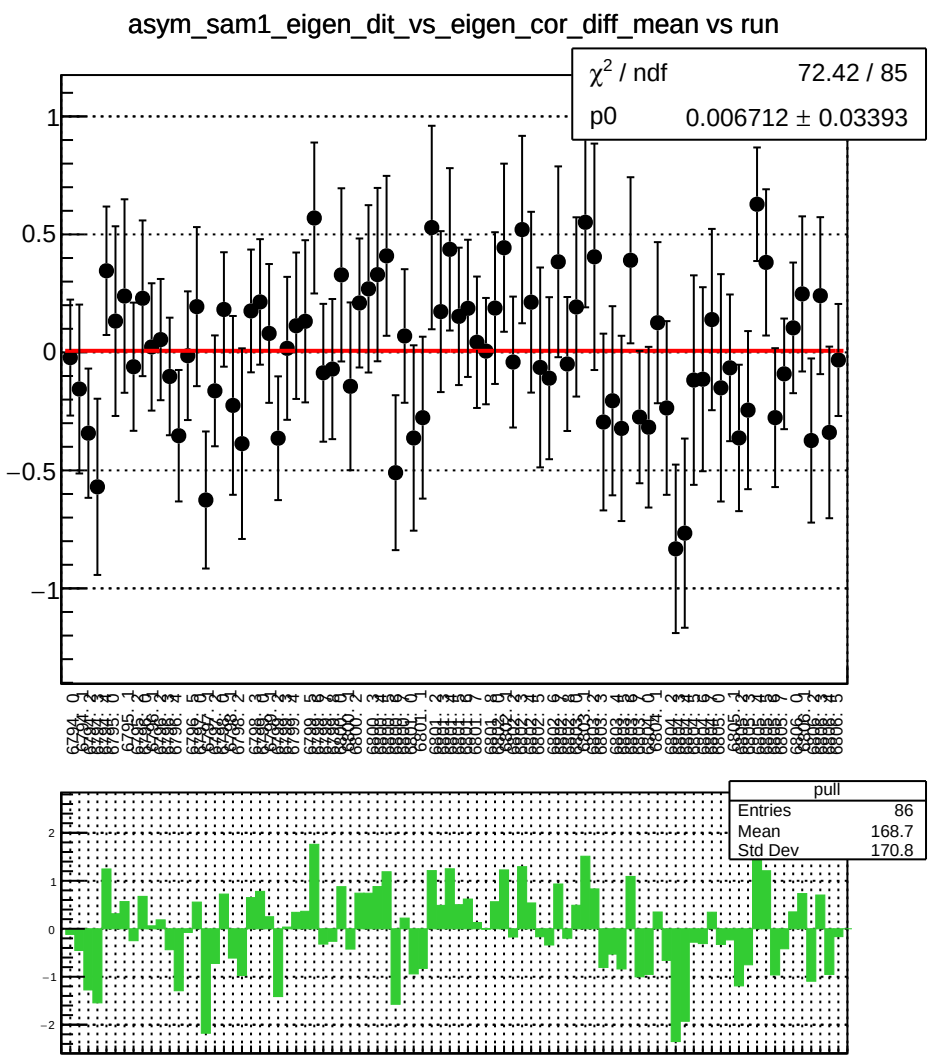

pull1D
Entries 86
Mean 0.01026
Std Dev 0.9743
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

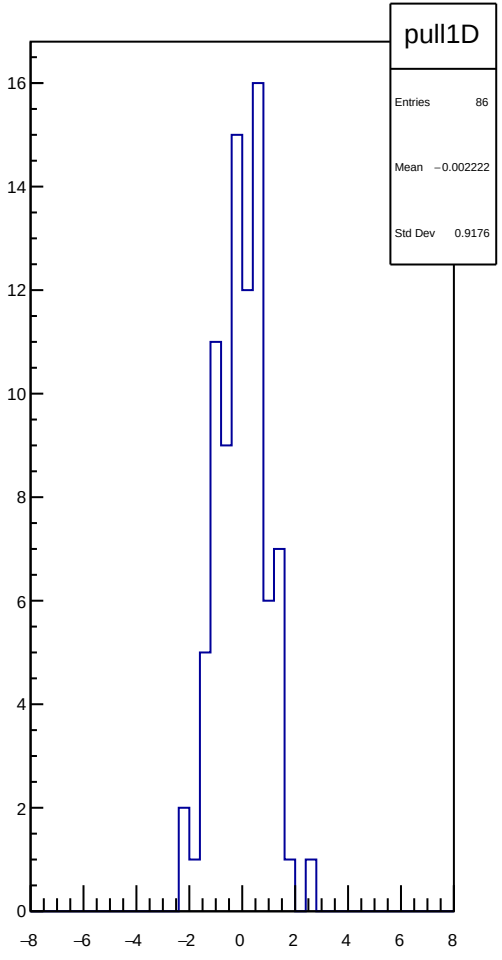

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.369e+04 / 85
p0 0.001285 ± 9.948e−07
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

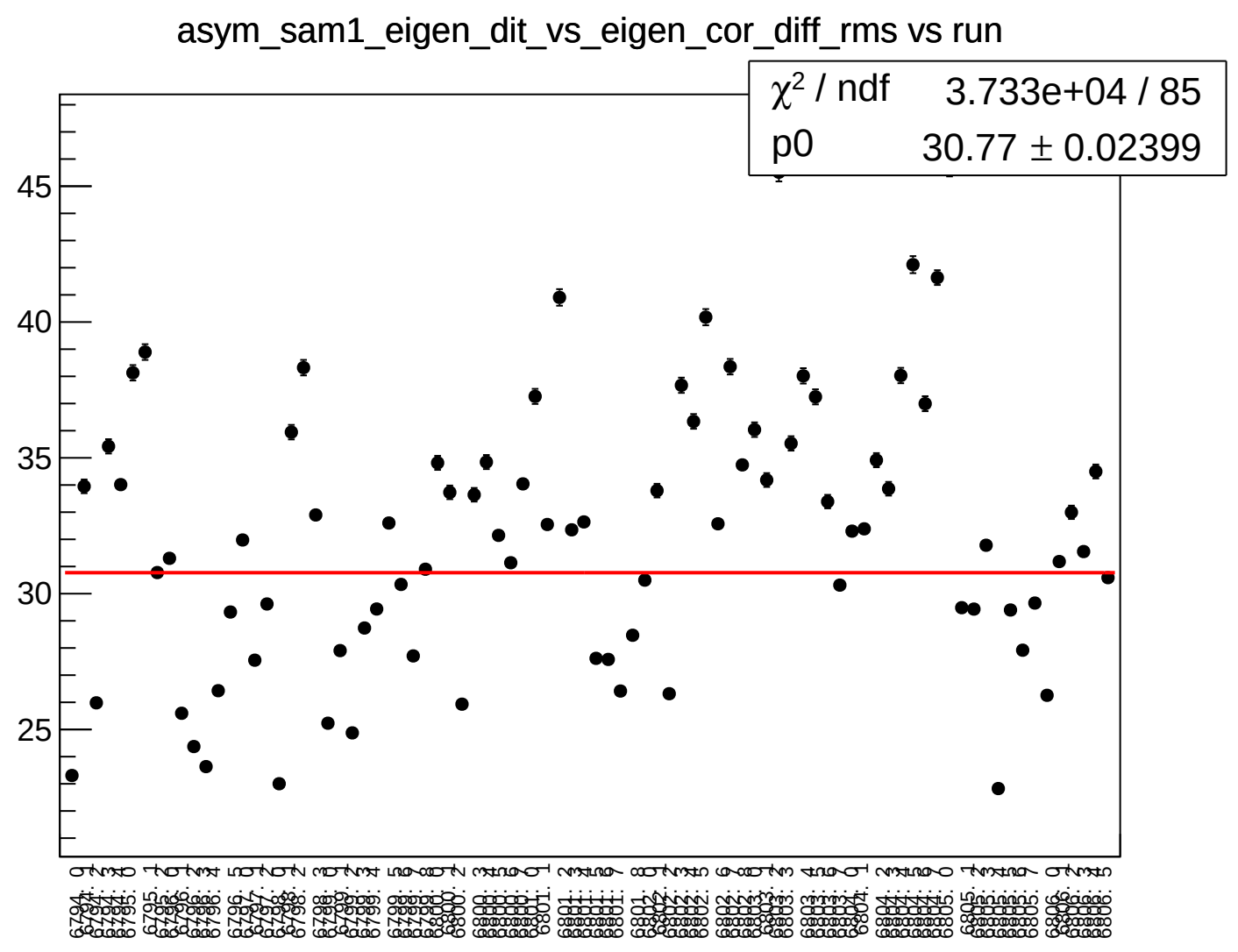

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.42 / 85
p0 0.006712 ± 0.03393
pull
Entries 86
Mean 168.7
Std Dev 170.8

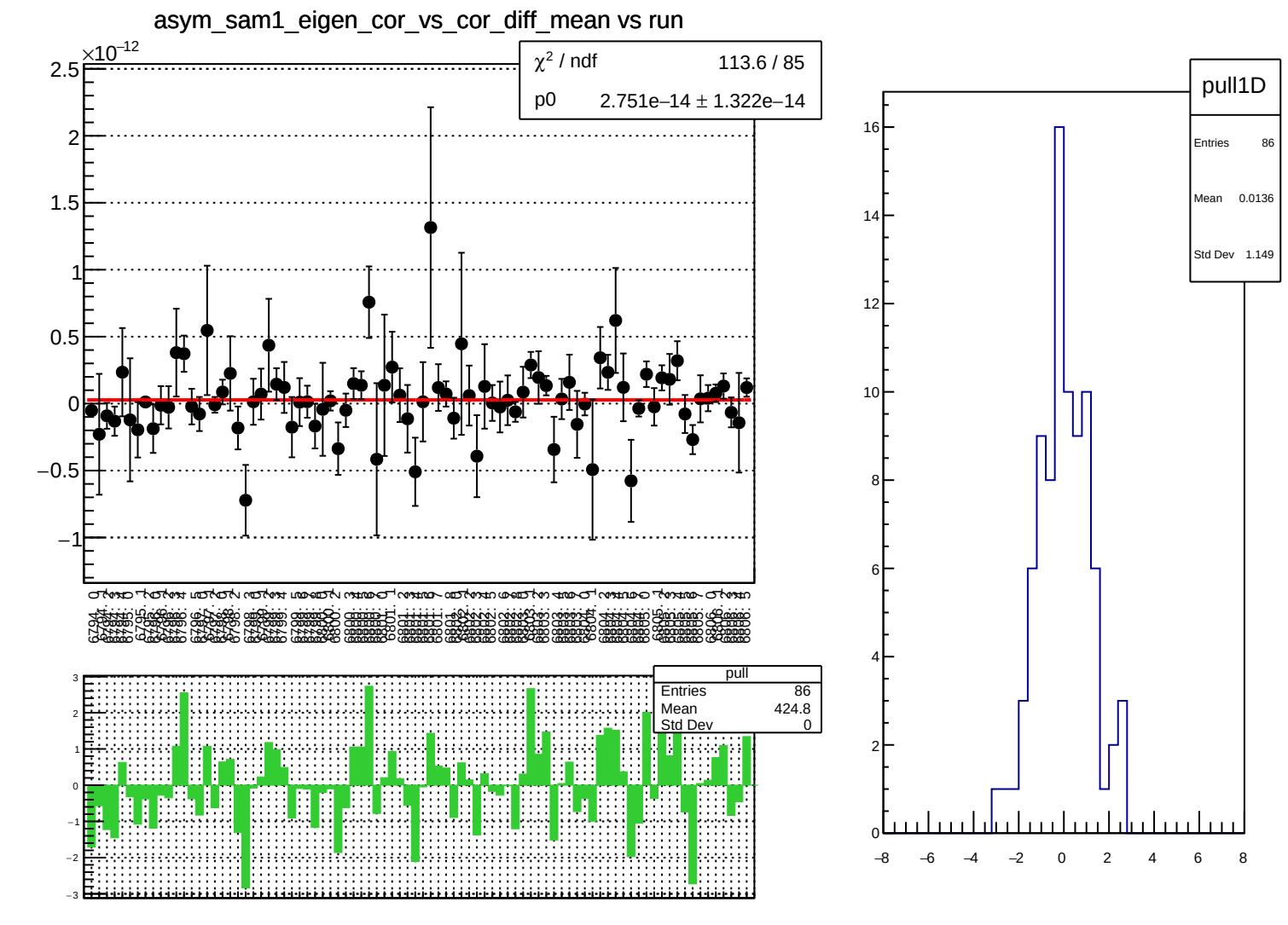

pull1D
Entries 86
Mean −0.002222
Std Dev 0.9176

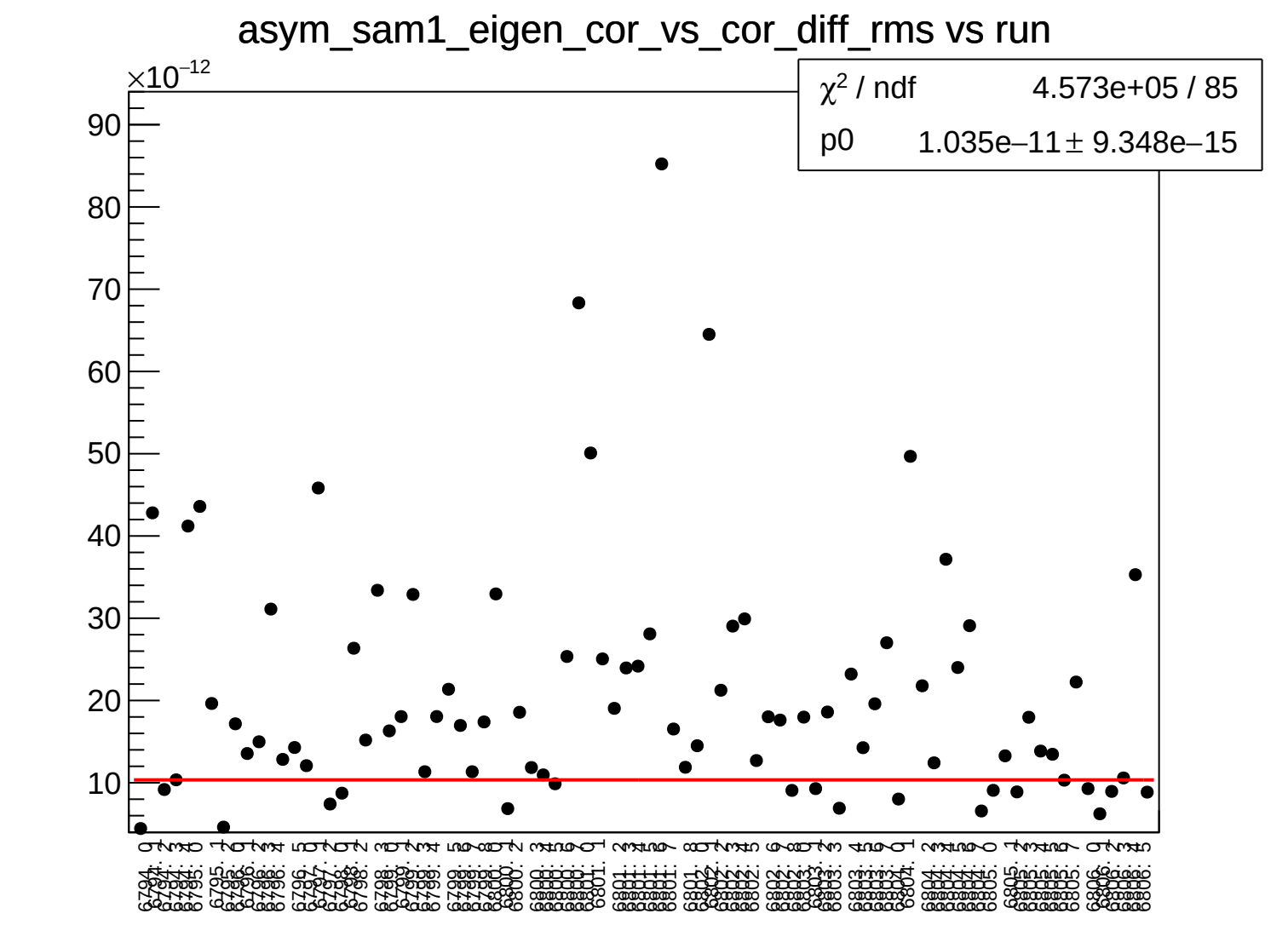

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.733e+04 / 85
p0 30.77 ± 0.02399
45
40
35
30
25

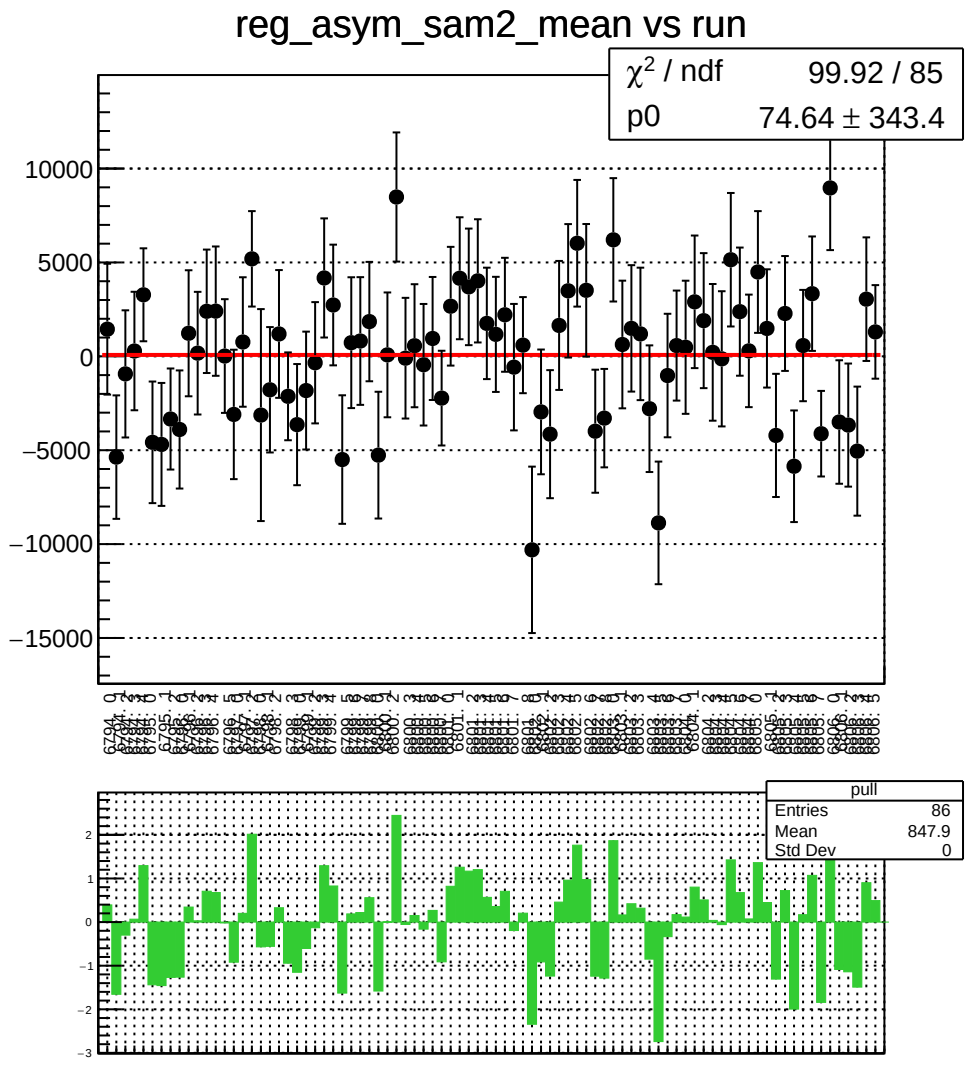

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.42 / 85
p0 0.006712 ± 0.03393
pull
Entries 86
Mean 168.7
Std Dev 170.8

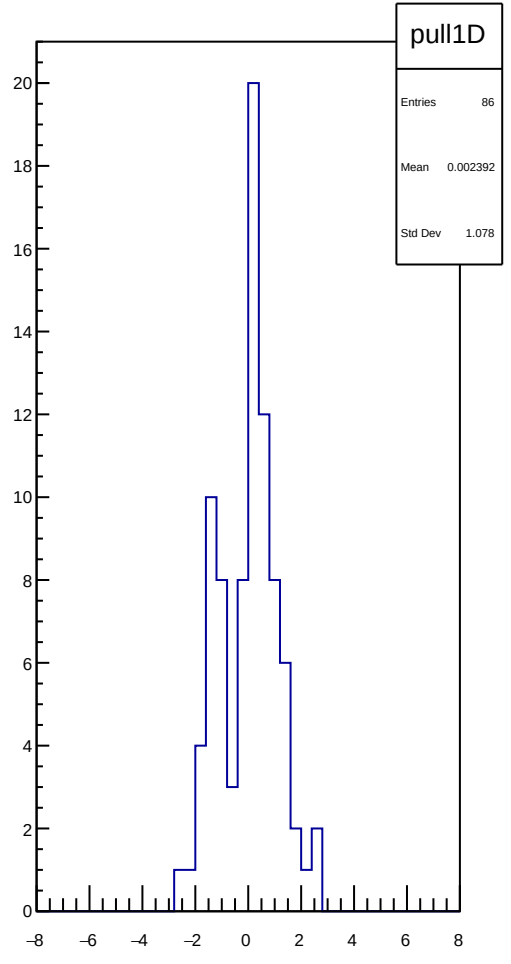

pull1D
Entries 86
Mean −0.002222
Std Dev 0.9176

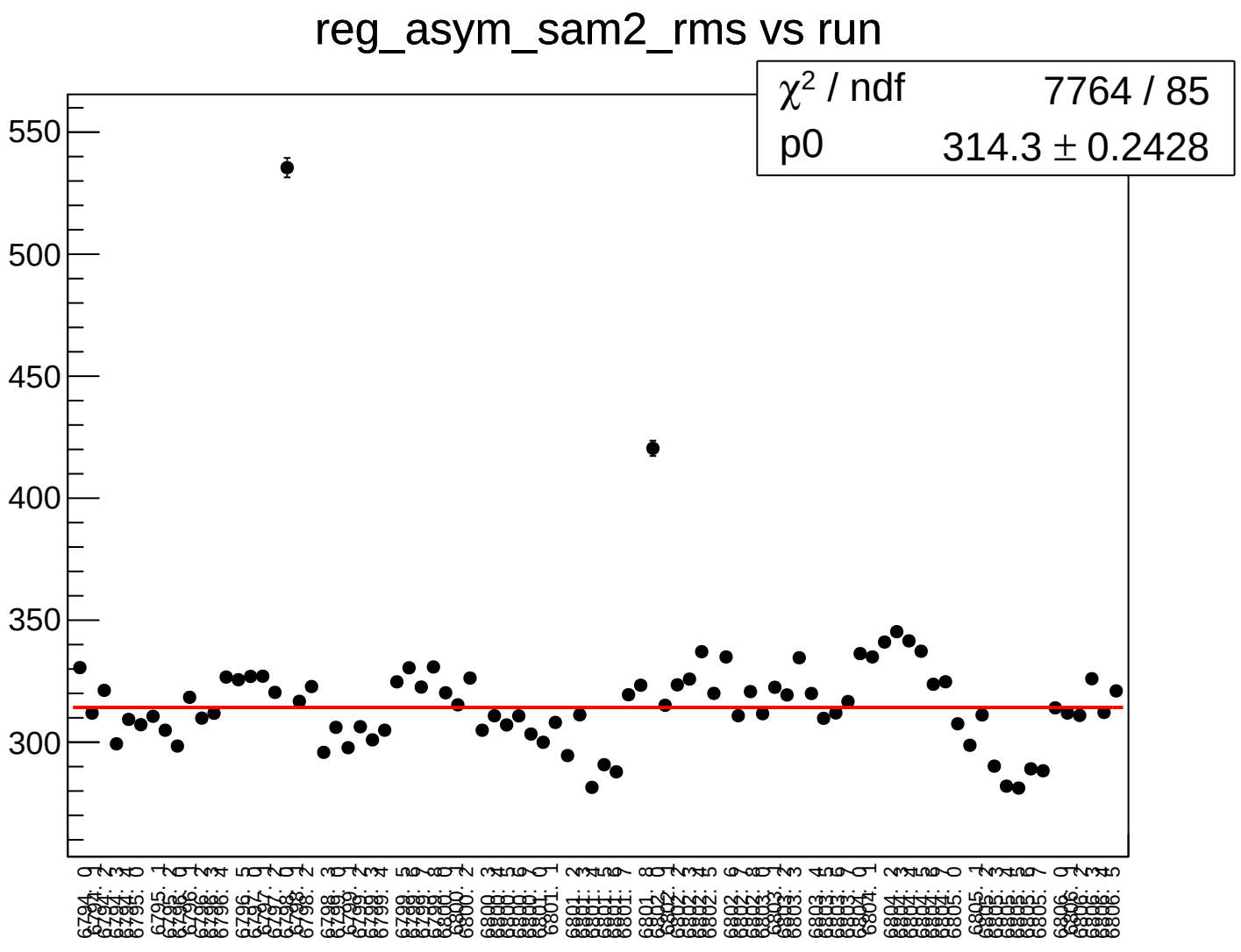

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.733e+04 / 85
p0 30.77 ± 0.02399
45
40
35
30
25

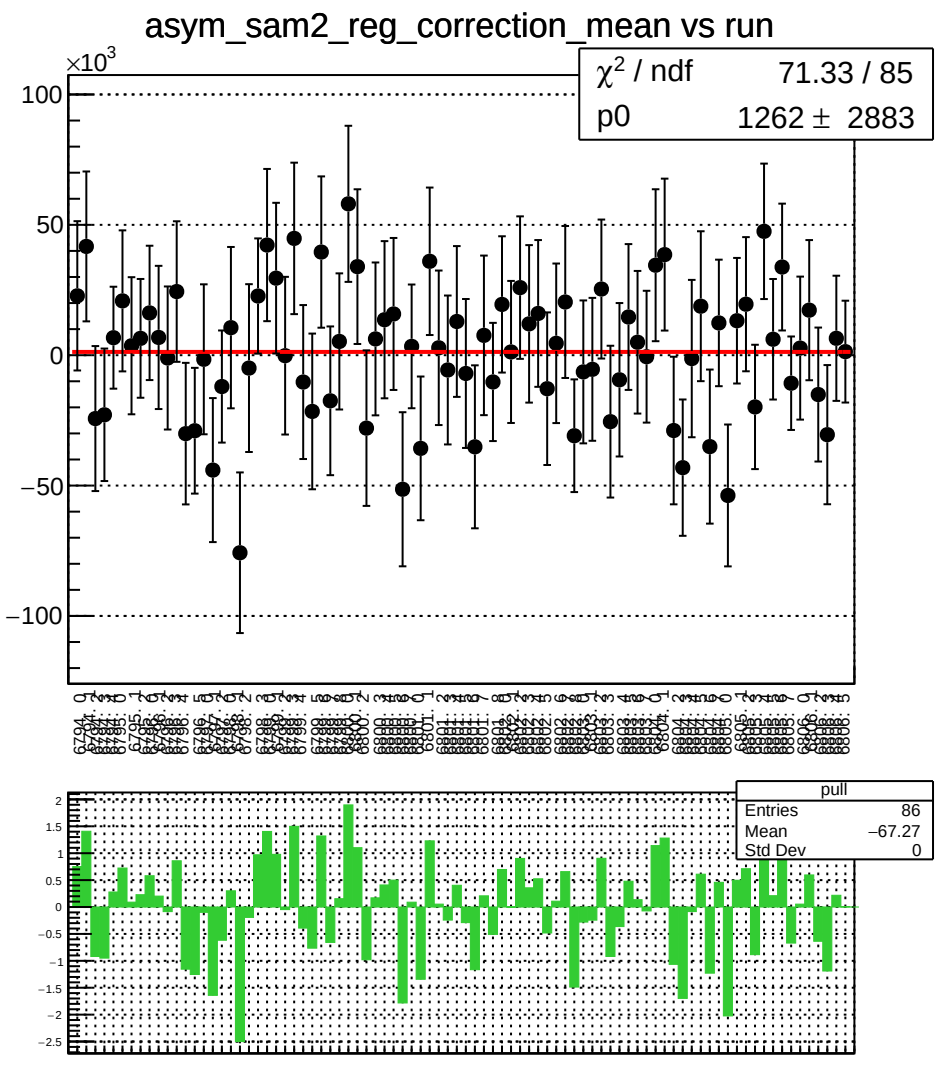

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.6 / 85
p0 2.751e−14 ± 1.322e−14
pull
Entries 86
Mean 424.8
Std Dev 0
pull1D
Entries 86
Mean 0.0136
Std Dev 1.149

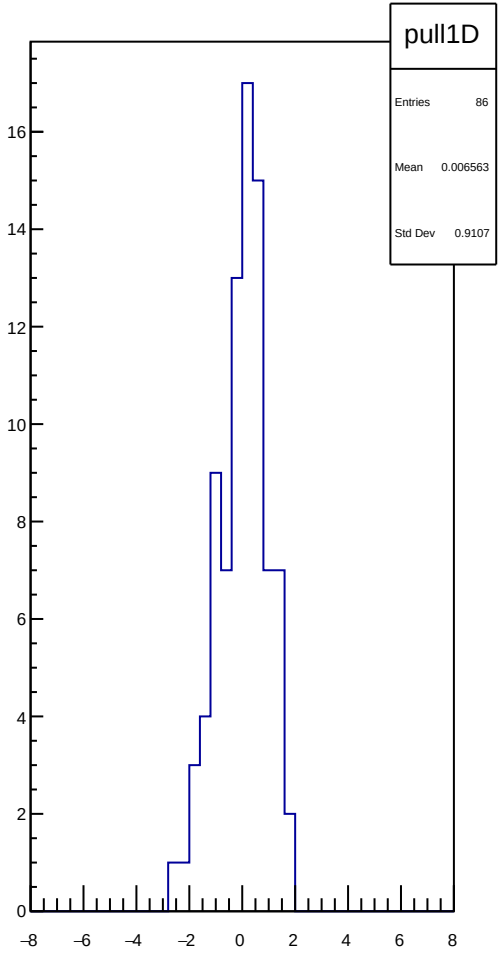

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.573e+05 / 85
p0 1.035e−11 ± 9.348e−15
90
80
70
60
50
40
30
20
10

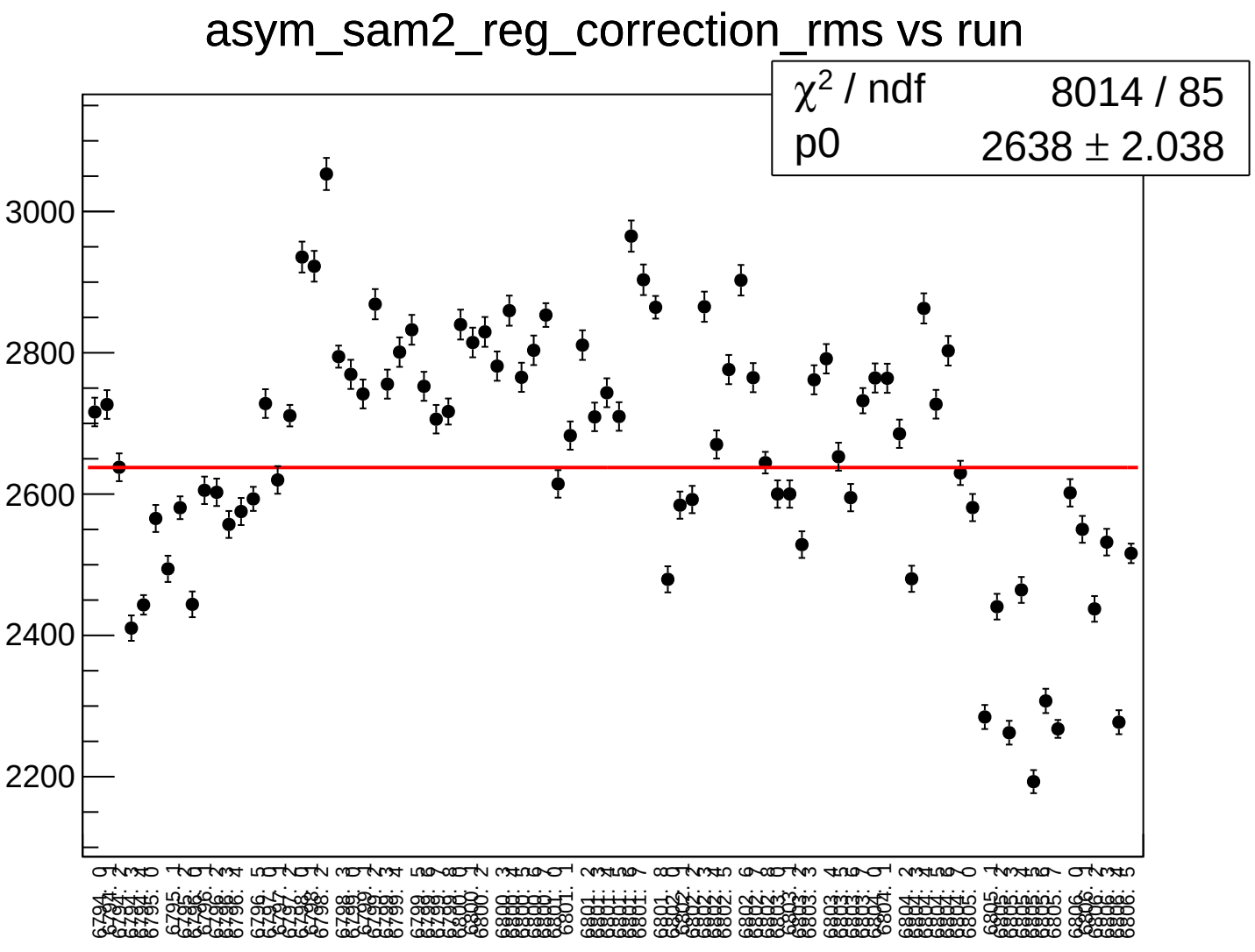

reg_asym_sam2_mean vs run
χ² / ndf 99.92 / 85
p0 74.64 ± 343.4
pull
Entries 86
Mean 847.9
Std Dev 0

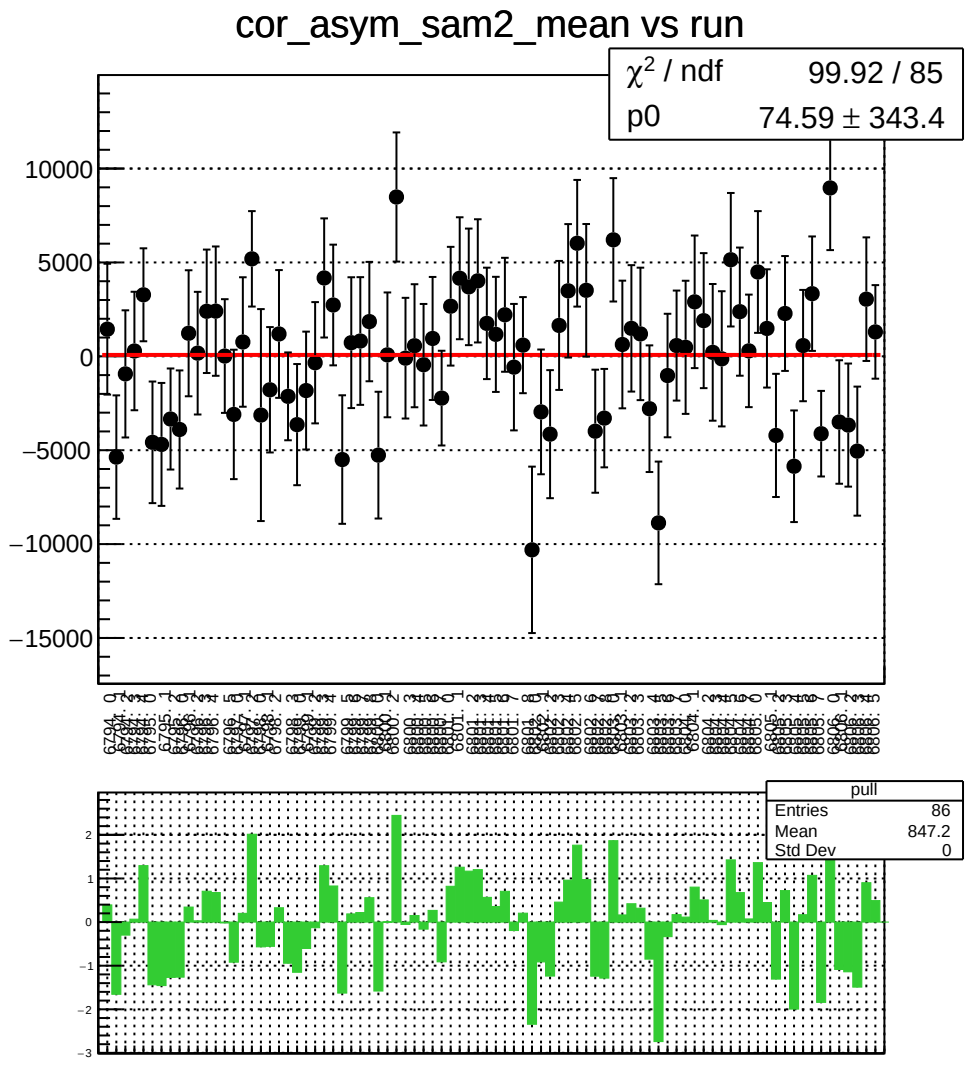

pull1D
Entries 86
Mean 0.002392
Std Dev 1.078

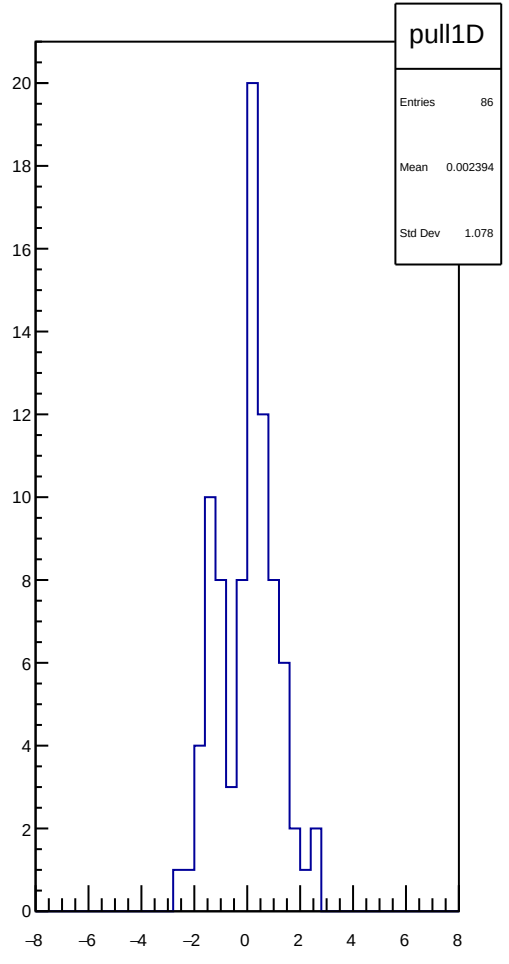

reg_asym_sam2_rms vs run
χ² / ndf 7764 / 85
p0 314.3 ± 0.2428
550
500
450
400
350
300


asym_sam2_reg_correction_mean vs run
×10^3
χ² / ndf 71.33 / 85
p0 1262 ± 2883
pull
Entries 86
Mean −67.27
Std Dev 0


pull1D
Entries 86
Mean 0.006563
Std Dev 0.9107


asym_sam2_reg_correction_rms vs run
χ² / ndf 8014 / 85
p0 2638 ± 2.038
3000
2800
2600
2400
2200


cor_asym_sam2_mean vs run
χ² / ndf 99.92 / 85
p0 74.59 ± 343.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 847.2
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean 0.002394
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
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−6
−4
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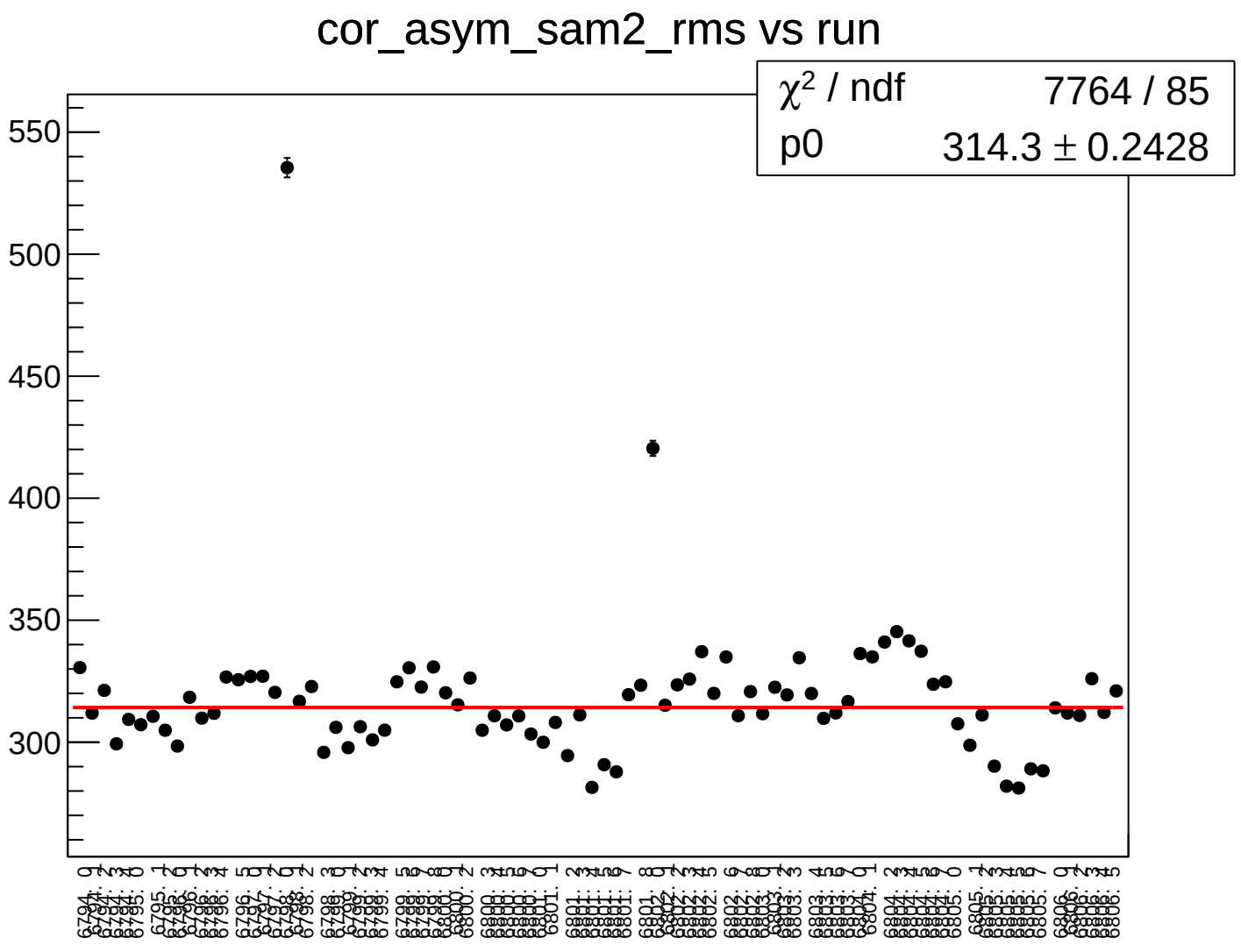
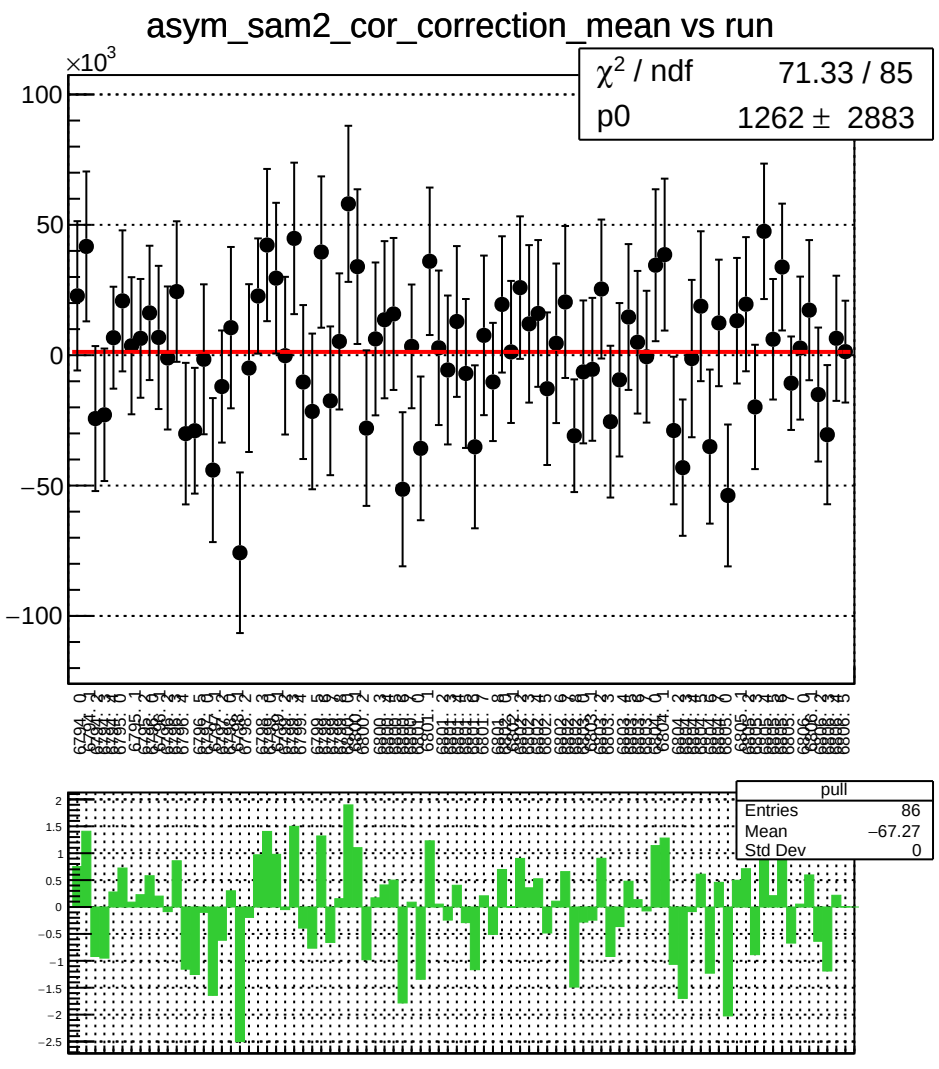
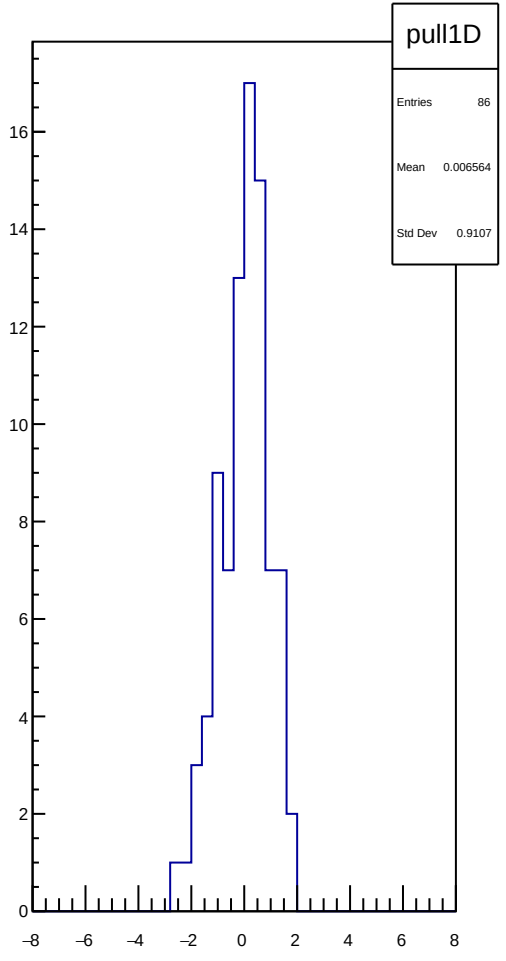
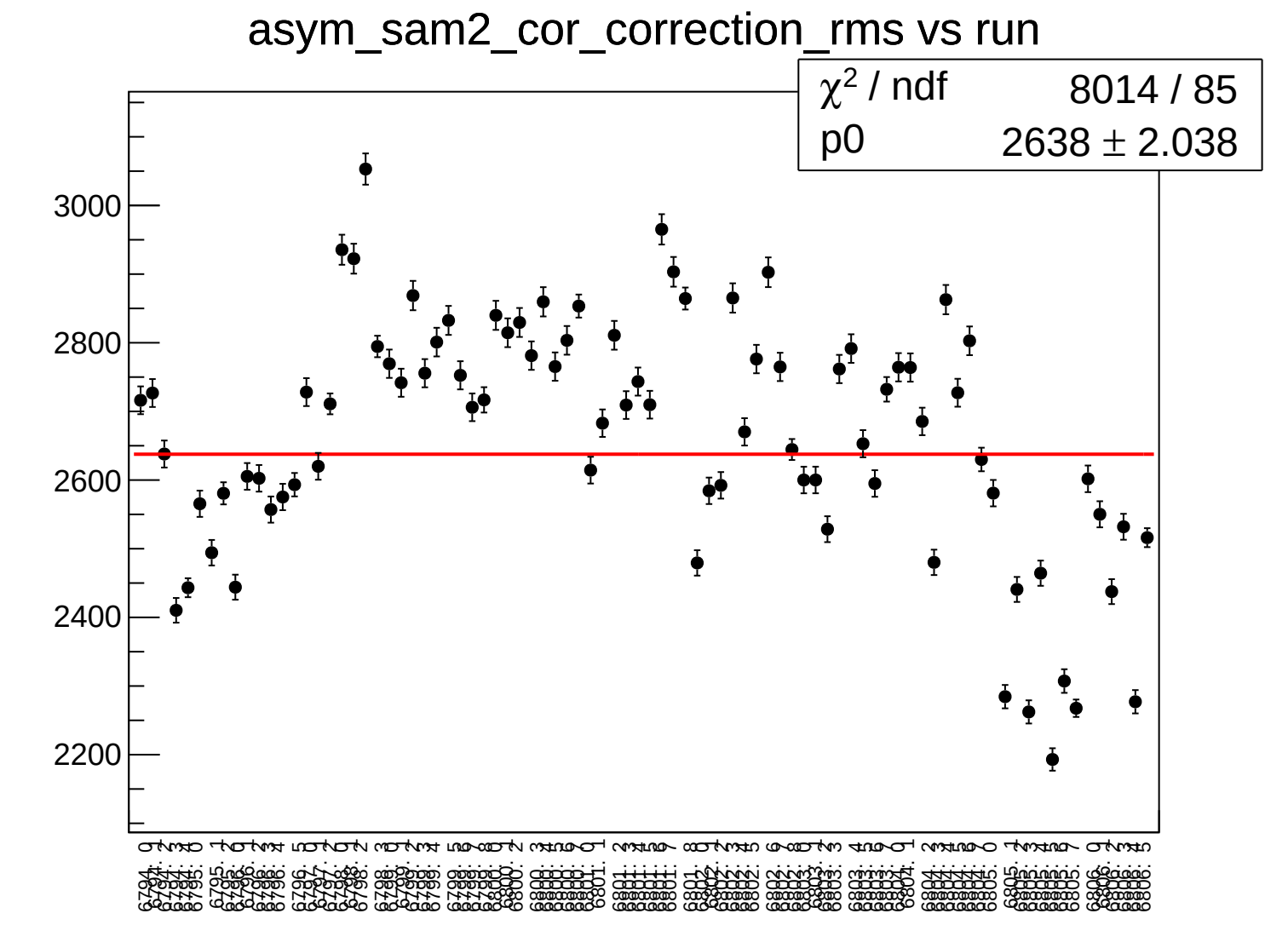
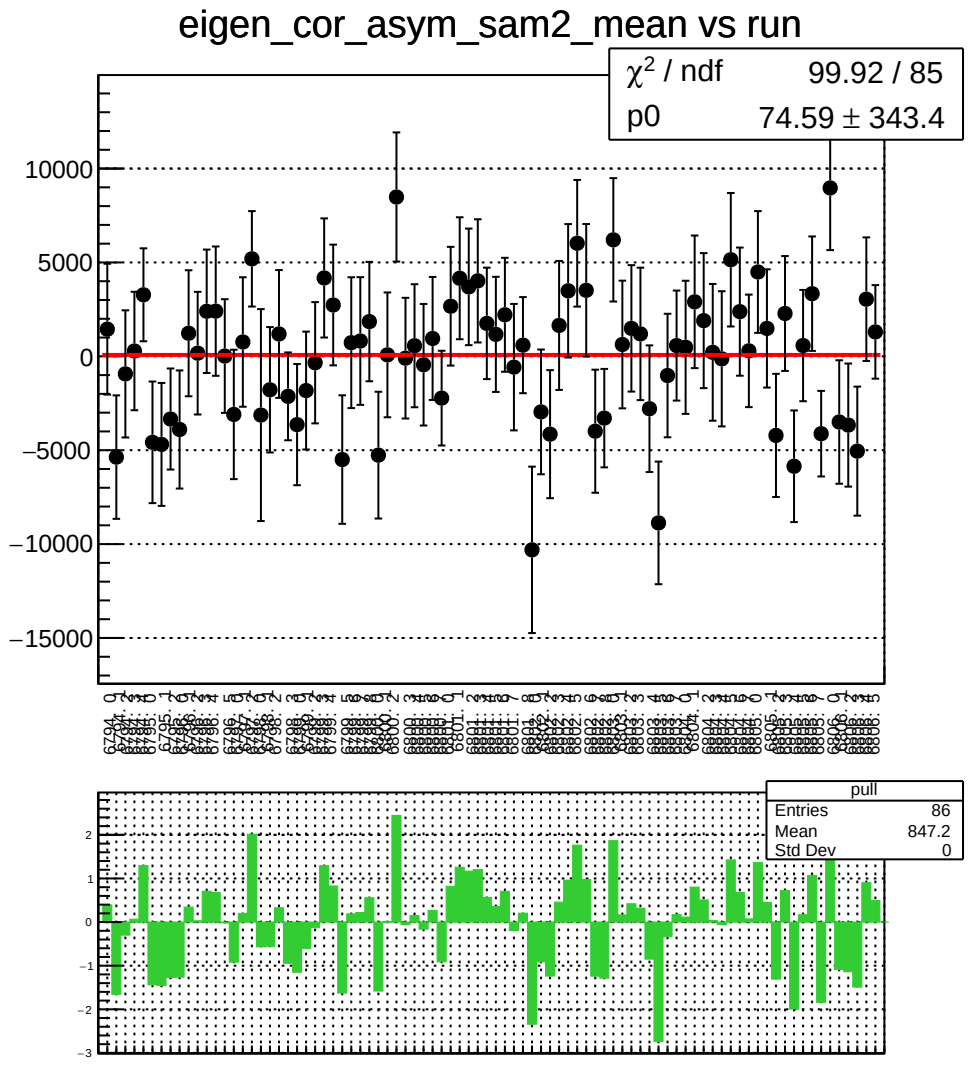
0
2
4
6
8

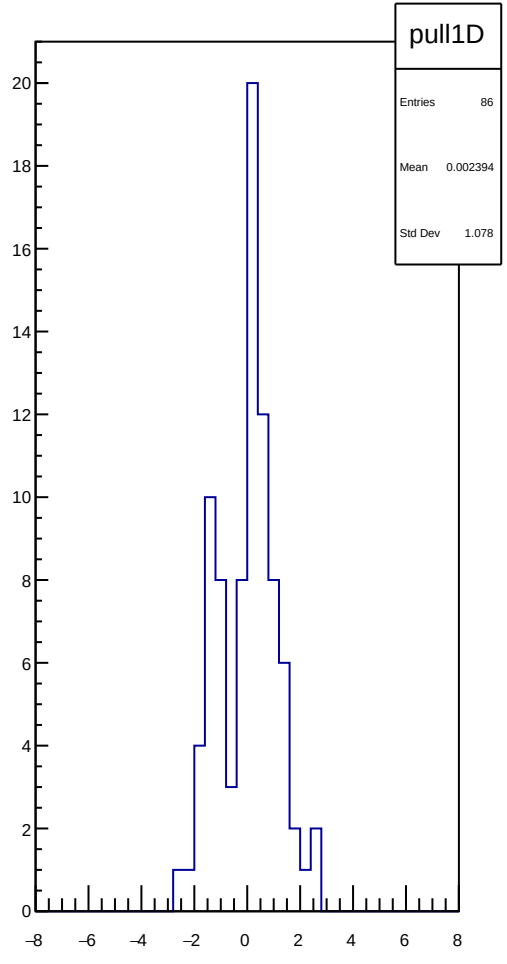

cor_asym_sam2_rms vs run
χ^2 / ndf 7764 / 85
p0 314.3 ± 0.2428
550
500
450
400
350
300

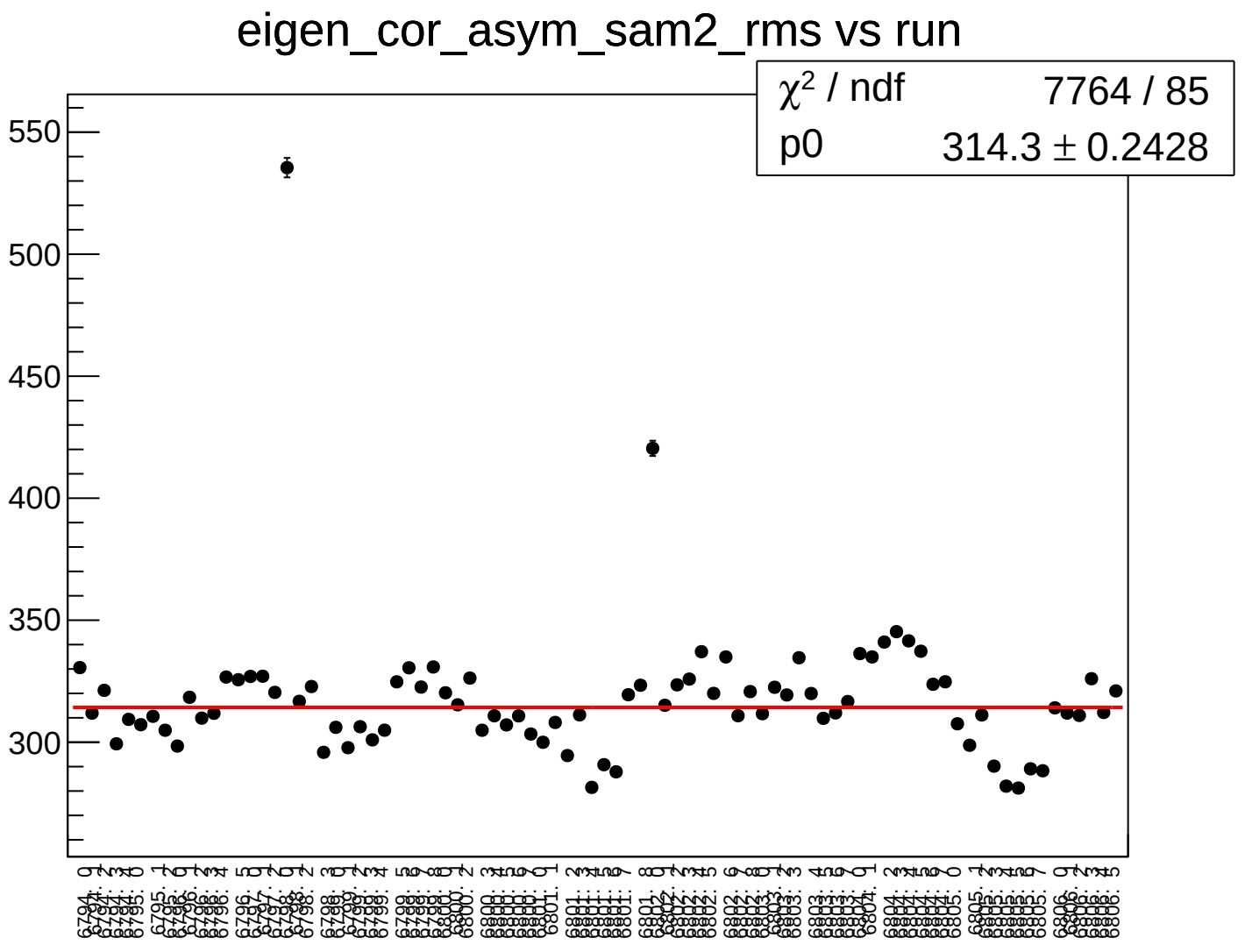

asym_sam2_cor_correction_mean vs run
×10^3
χ² / ndf 71.33 / 85
p0 1262 ± 2883
100
50
0
−50
−100
pull
Entries 86
Mean −67.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

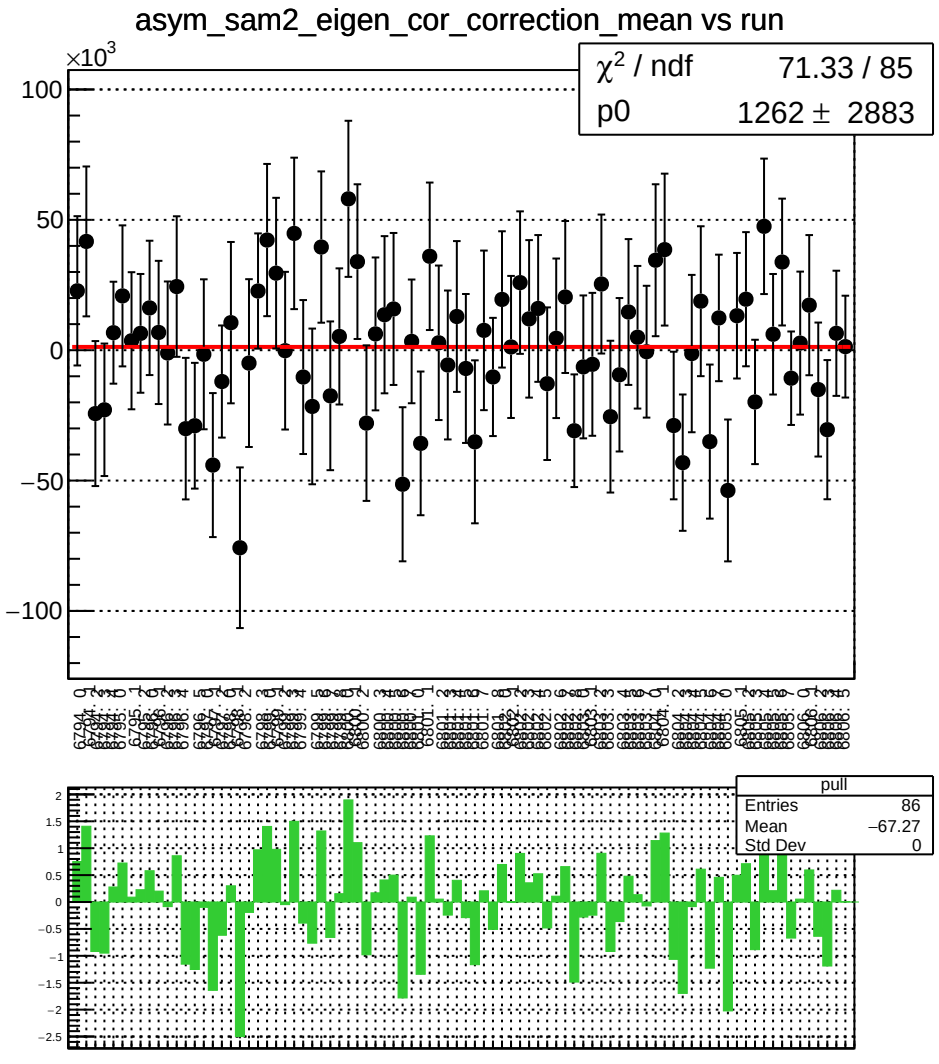

pull1D
Entries 86
Mean 0.006564
Std Dev 0.9107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

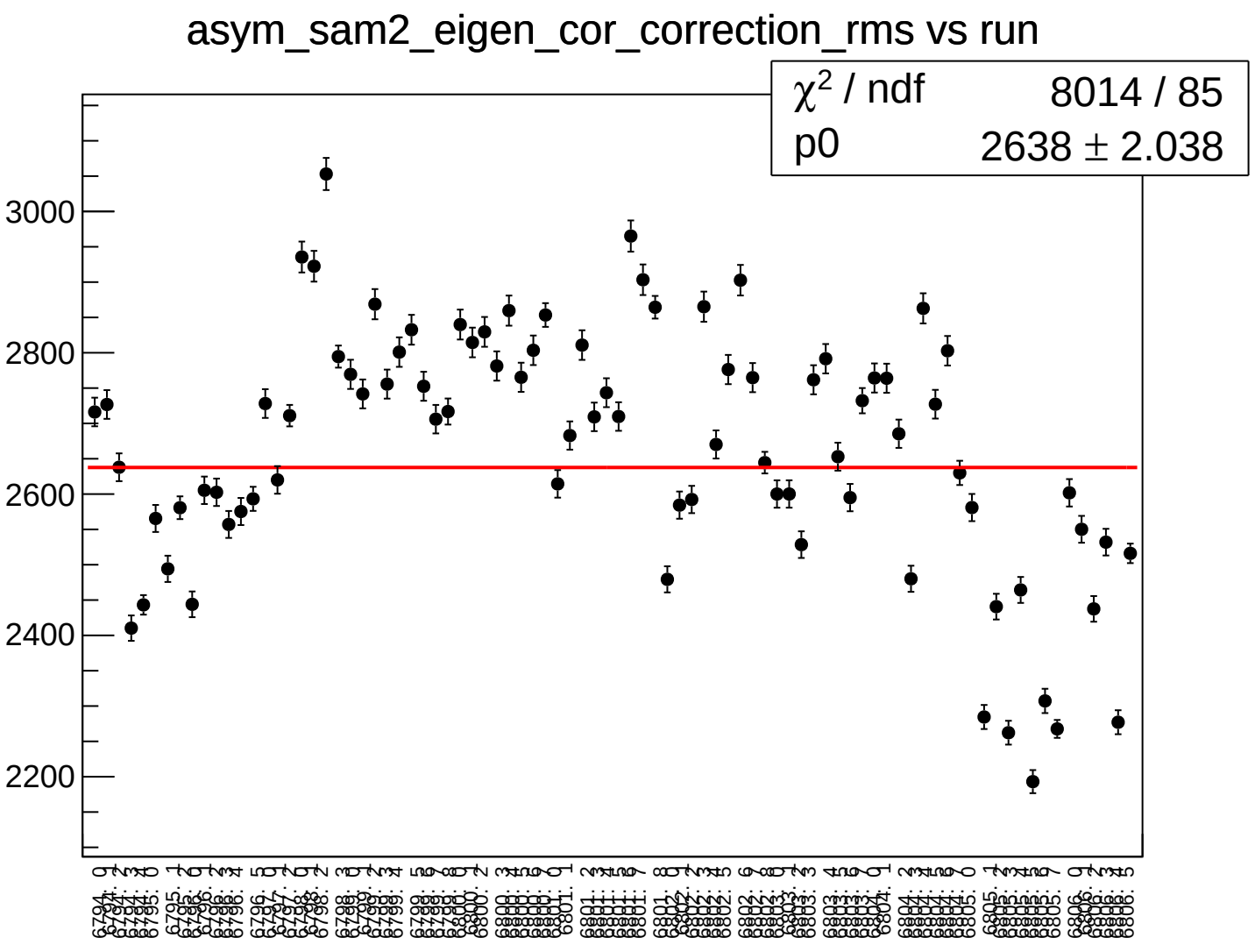

asym_sam2_cor_correction_rms vs run
χ² / ndf 8014 / 85
p0 2638 ± 2.038
3000
2800
2600
2400
2200

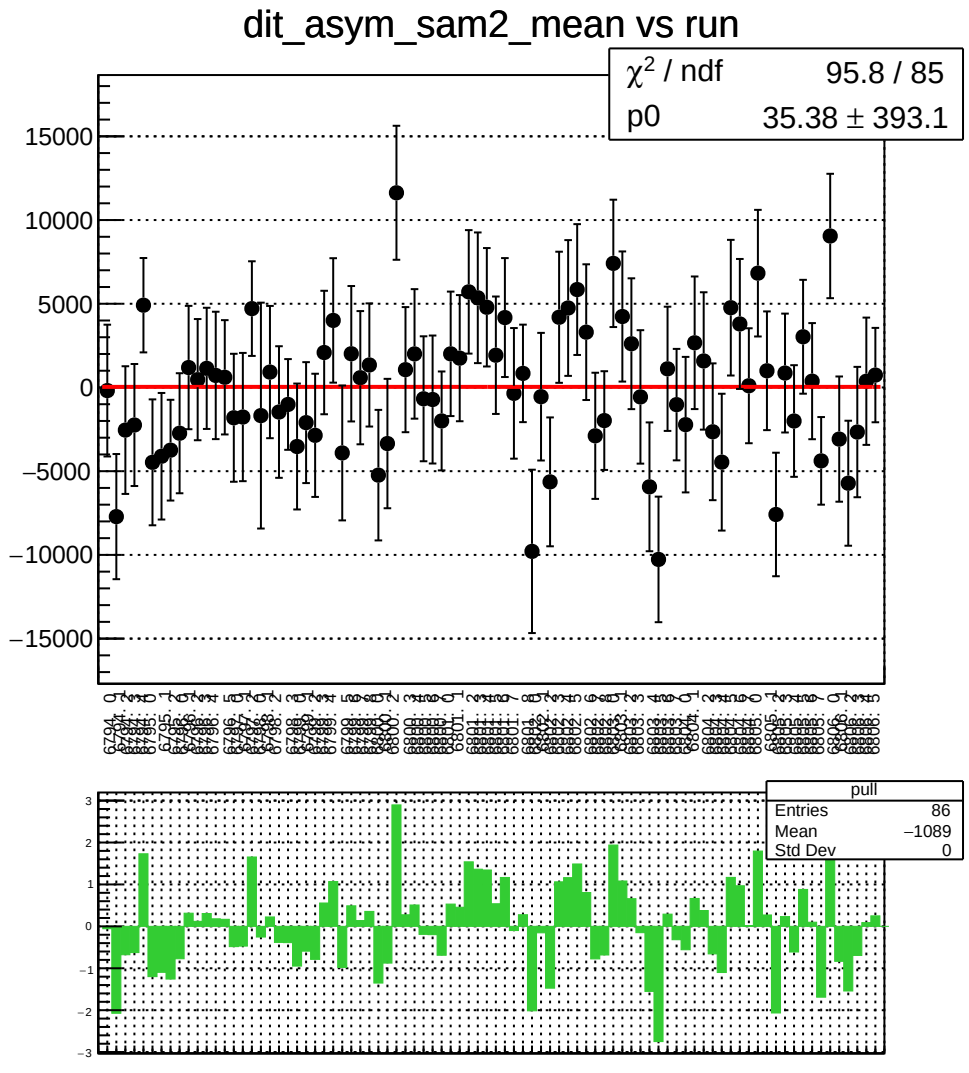

eigen_cor_asym_sam2_mean vs run
χ² / ndf 99.92 / 85
p0 74.59 ± 343.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 847.2
Std Dev 0
2
1
0
−1
−2
−3

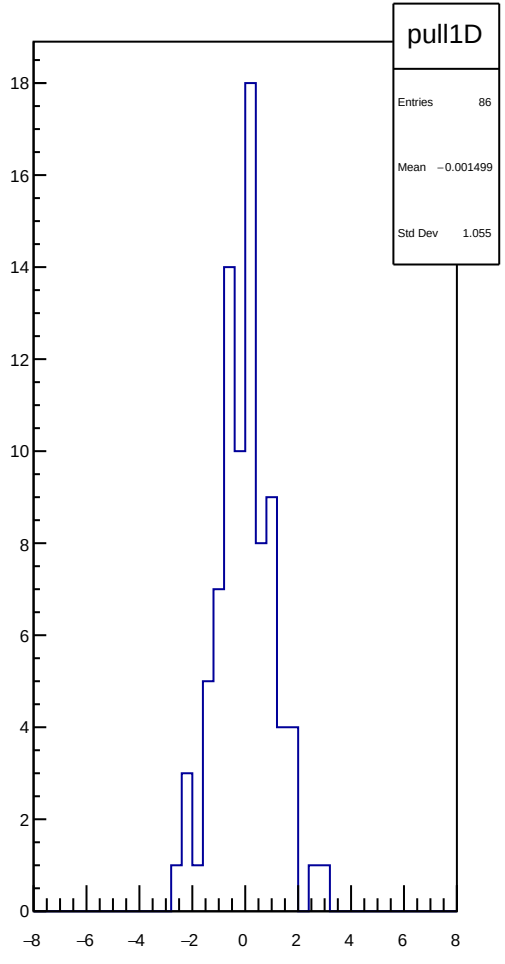

pull1D
Entries 86
Mean 0.002394
Std Dev 1.078
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

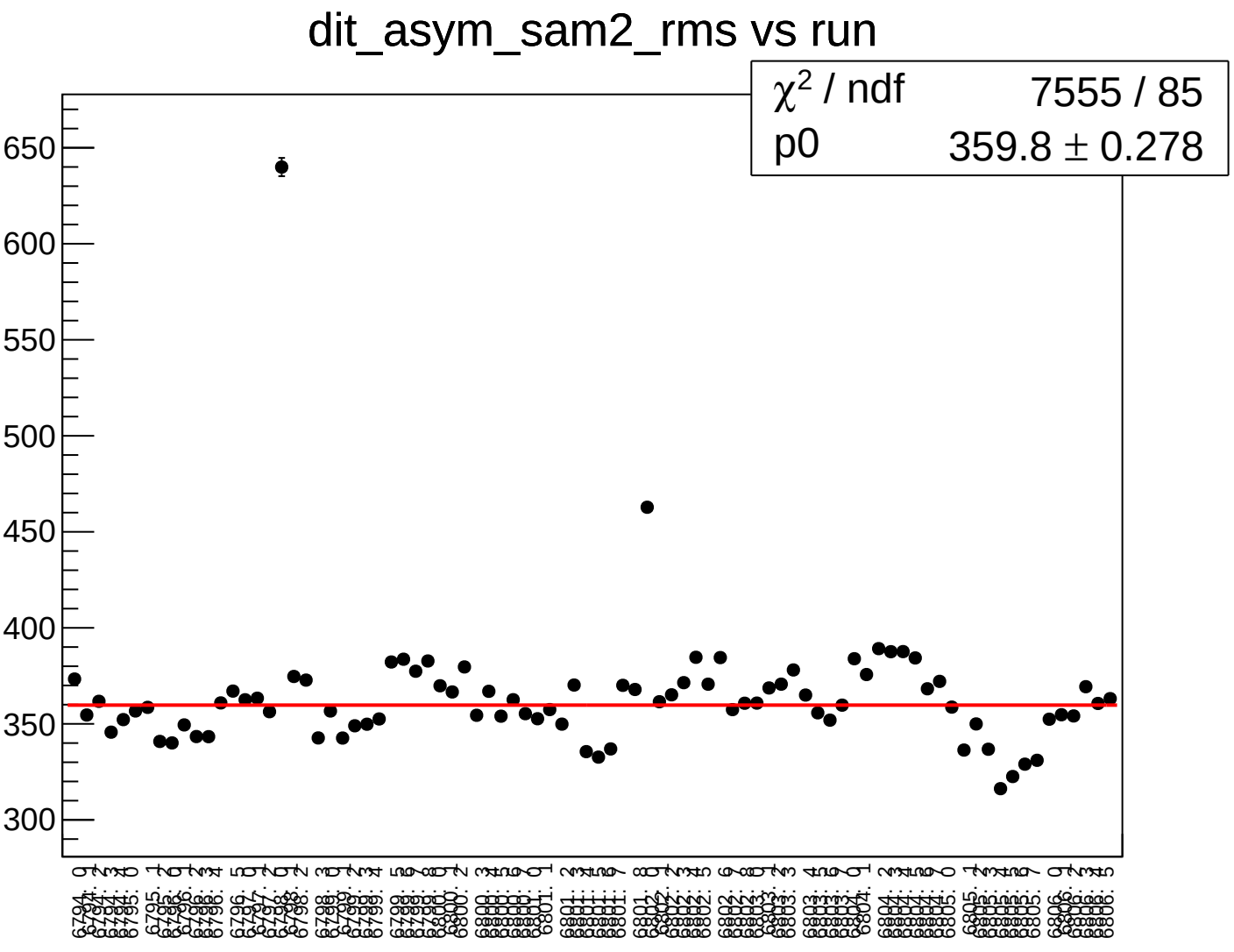

eigen_cor_asym_sam2_rms vs run
χ² / ndf 7764 / 85
p0 314.3 ± 0.2428
550
500
450
400
350
300

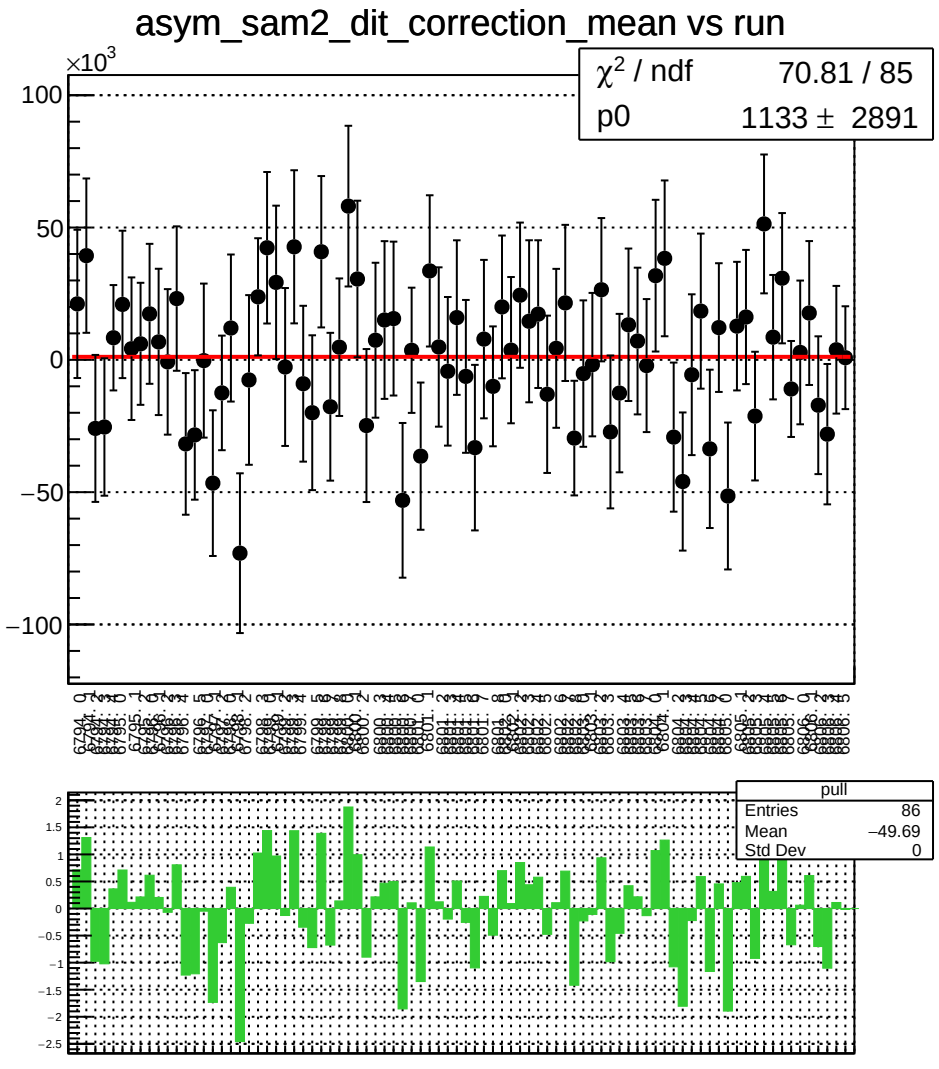

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 71.33 / 85
p0 1262 ± 2883
pull
Entries 86
Mean −67.27
Std Dev 0
pull1D
Entries 86
Mean 0.006564
Std Dev 0.9107

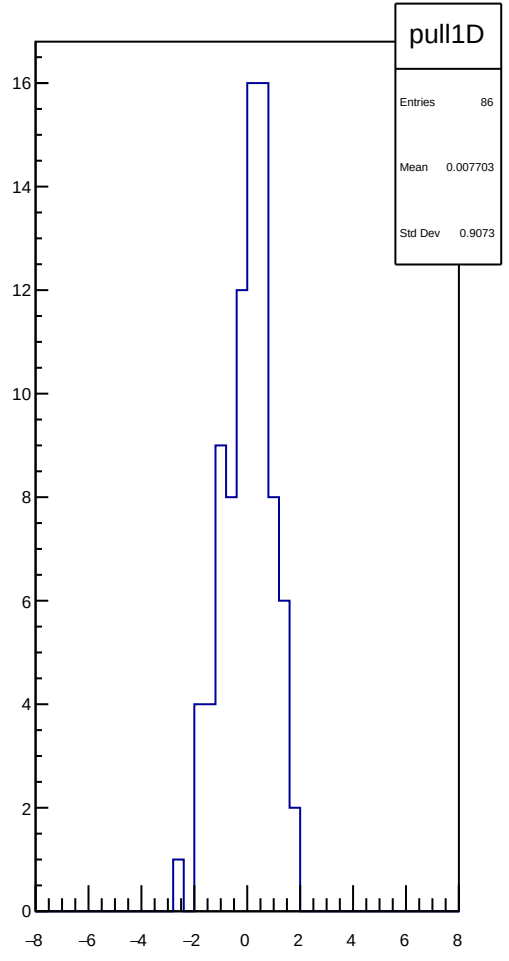

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 8014 / 85
p0 2638 ± 2.038
3000
2800
2600
2400
2200

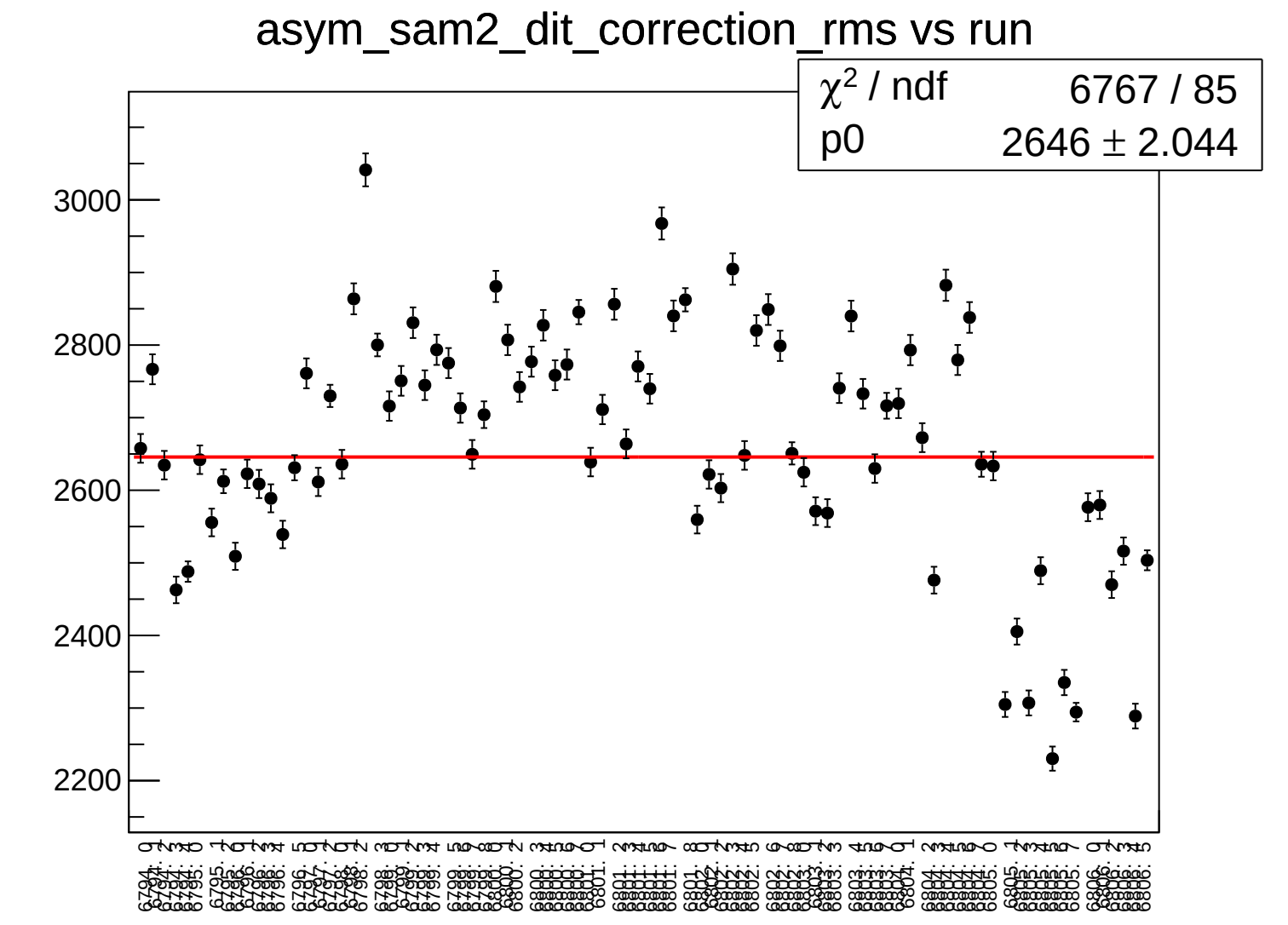

dit_asym_sam2_mean vs run
χ² / ndf 95.8 / 85
p0 35.38 ± 393.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1089
Std Dev 0
3
2
1
0
−1
−2
−3

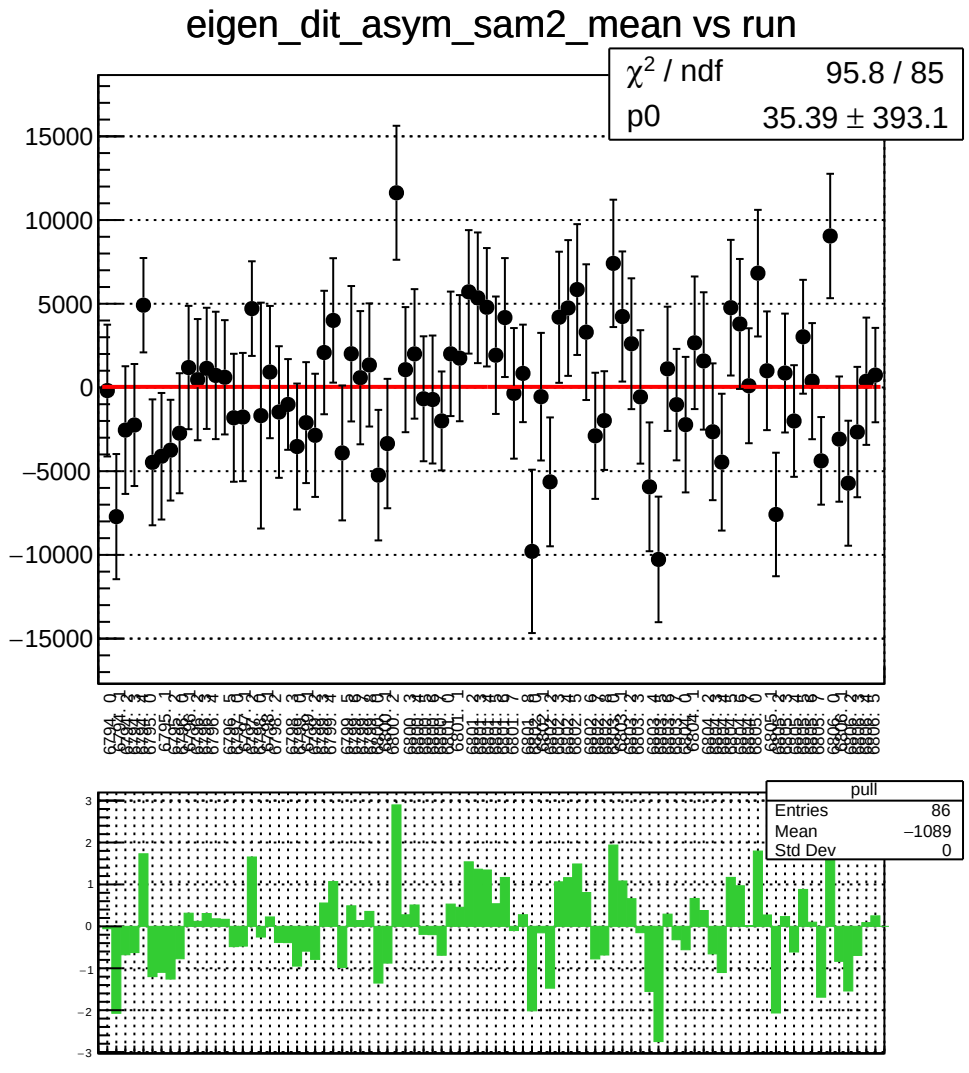

pull1D
Entries 86
Mean −0.001499
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

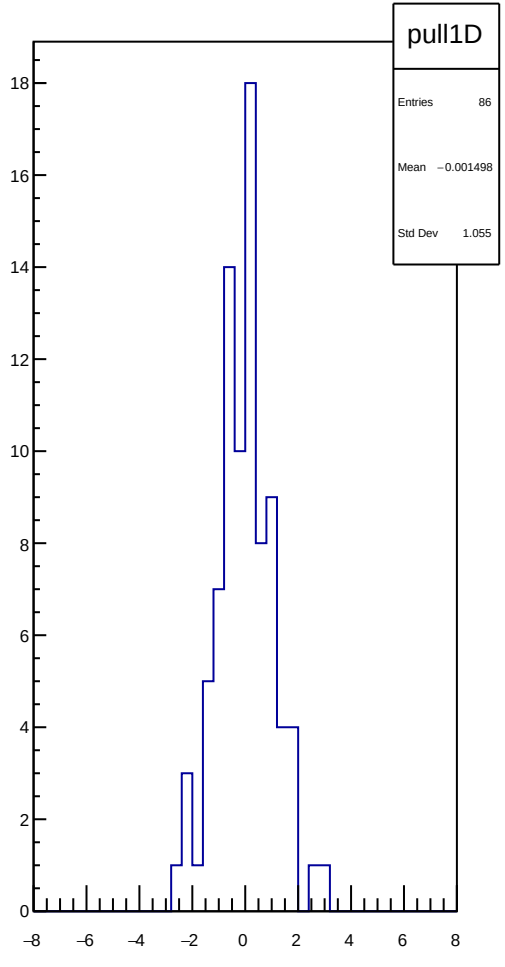

dit_asym_sam2_rms vs run
χ² / ndf 7555 / 85
p0 359.8 ± 0.278
650
600
550
500
450
400
350
300

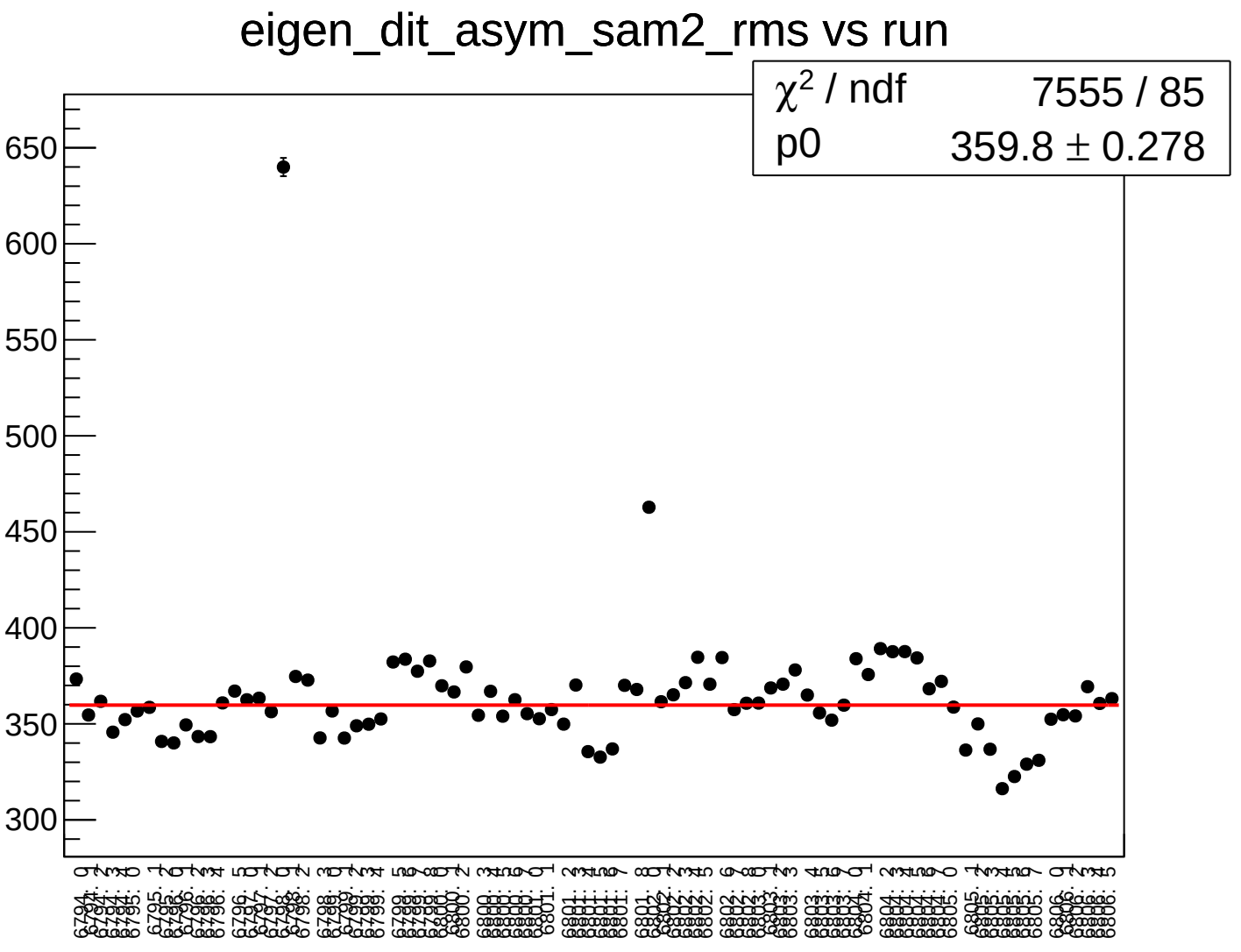

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 70.81 / 85
p0 1133 ± 2891
100
50
0
−50
−100
pull
Entries 86
Mean −49.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

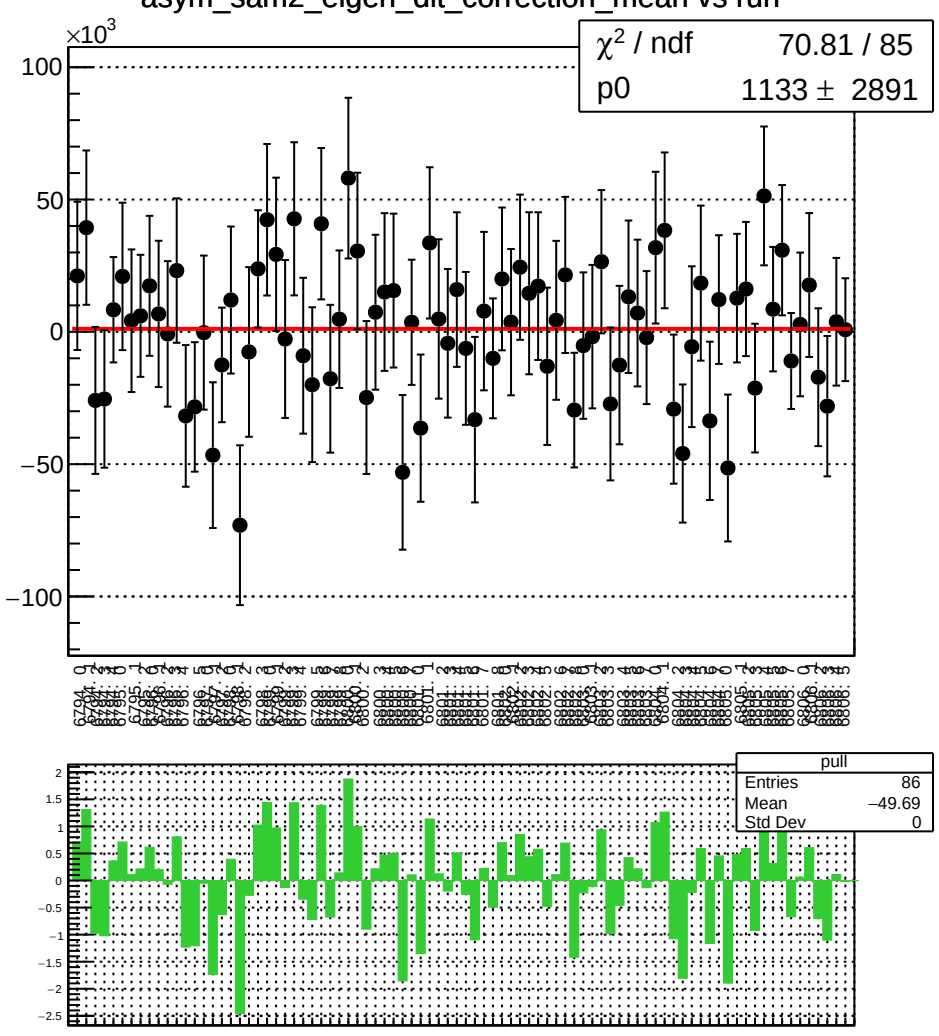

pull1D
Entries 86
Mean 0.007703
Std Dev 0.9073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

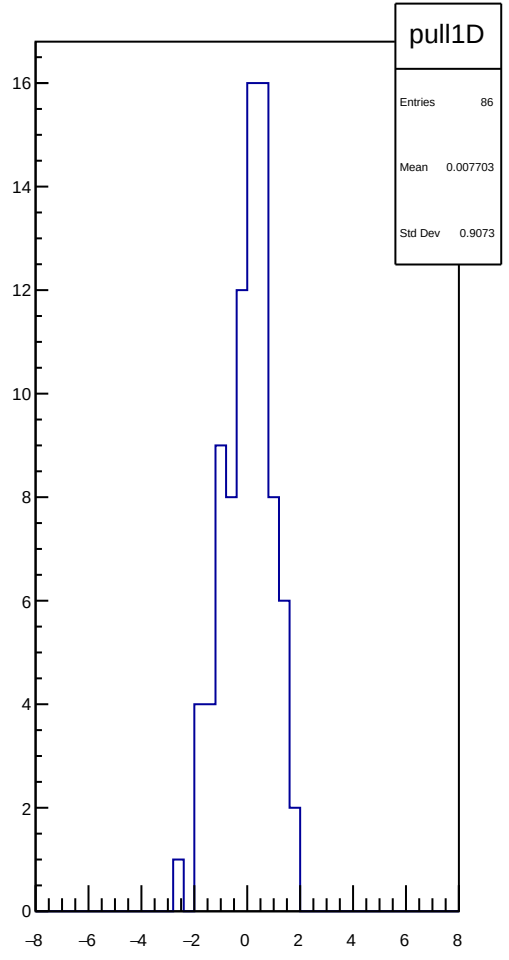

asym_sam2_dit_correction_rms vs run
χ² / ndf 6767 / 85
p0 2646 ± 2.044
3000
2800
2600
2400
2200


eigen_dit_asym_sam2_mean vs run
χ² / ndf 95.8 / 85
p0 35.39 ± 393.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −1089
Std Dev 0
3
2
1
0
−1
−2
−3


pull1D
Entries 86
Mean −0.001498
Std Dev 1.055
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 7555 / 85
p0 359.8 ± 0.278
650
600
550
500
450
400
350
300


asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.81 / 85
p0 1133 ± 2891
100
50
0
−50
−100
pull
Entries 86
Mean −49.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 86
Mean 0.007703
Std Dev 0.9073
16
14
12
10
8
6
4
2
0
−8
−6
−4
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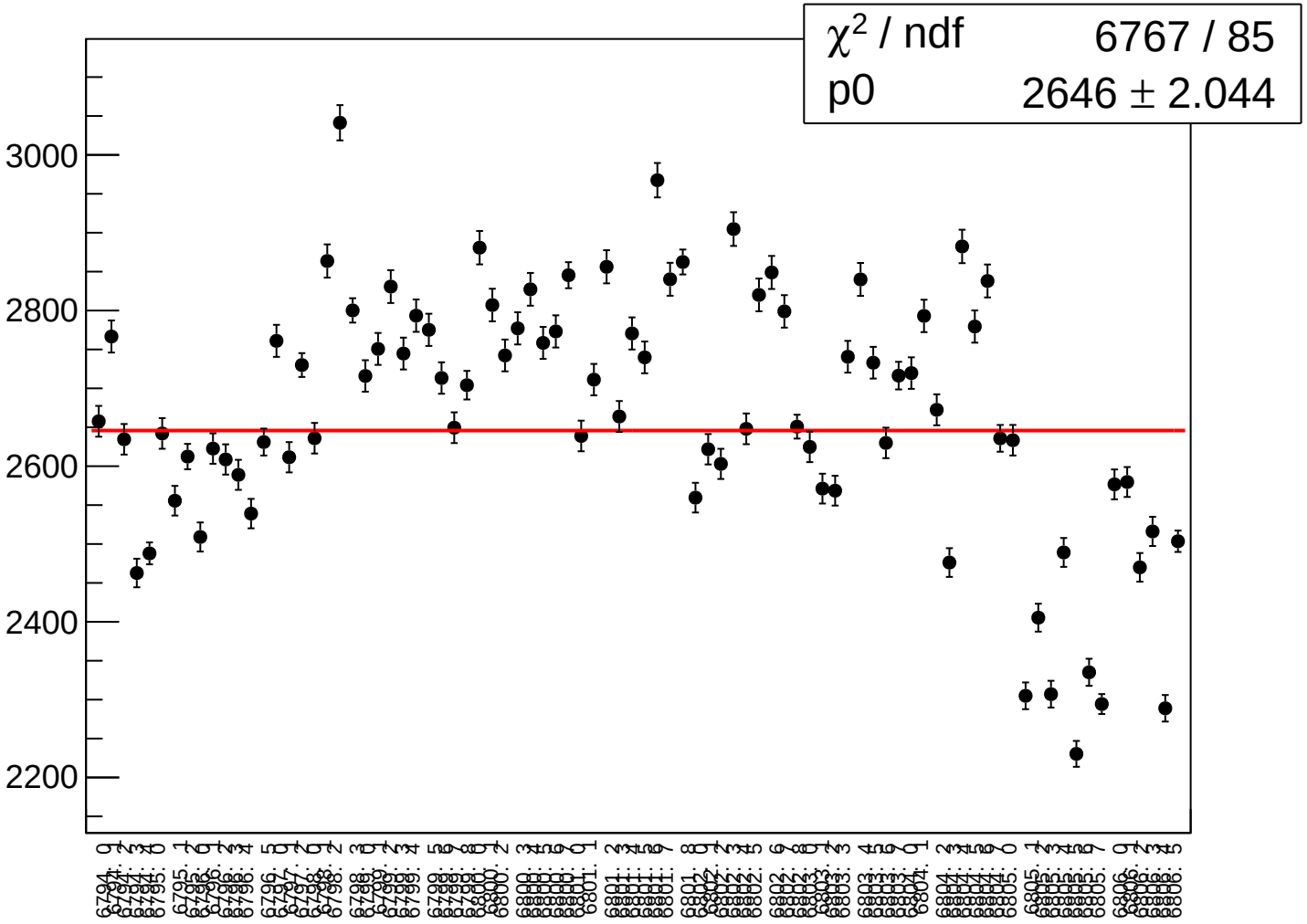
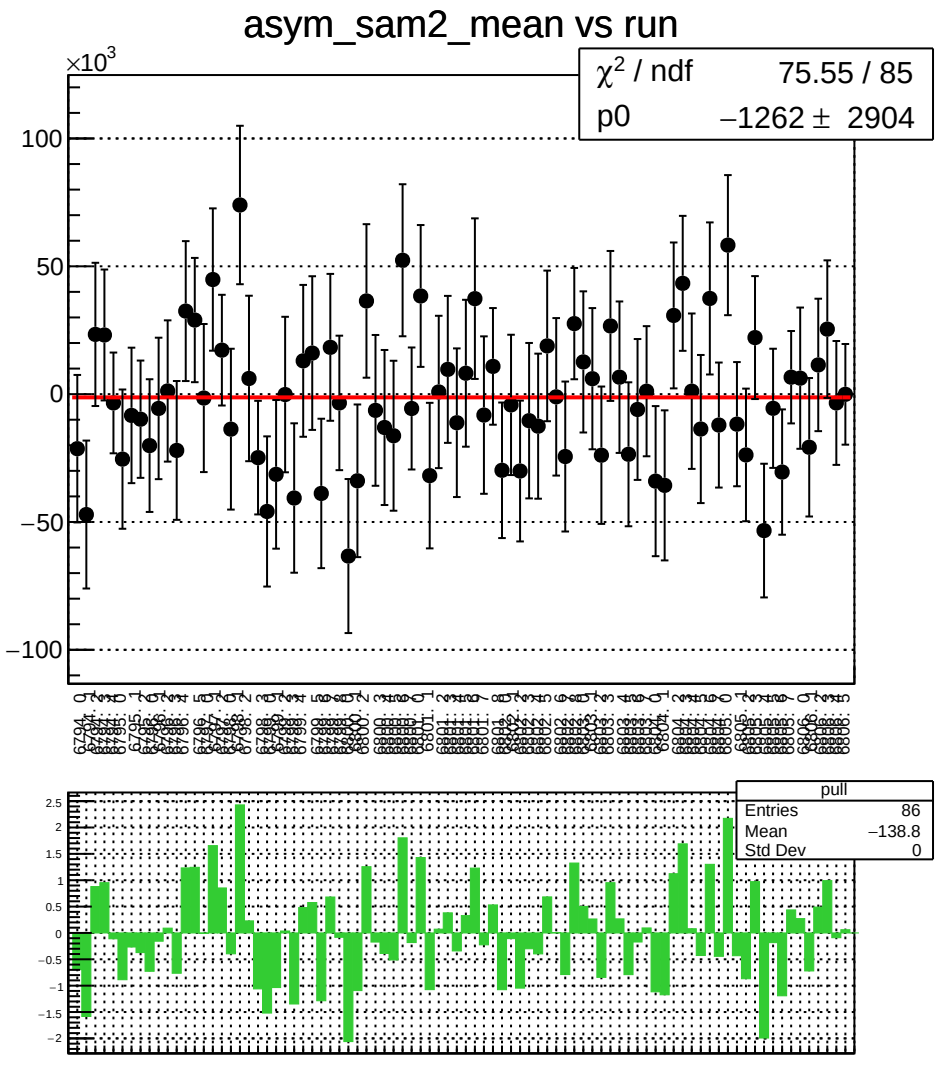
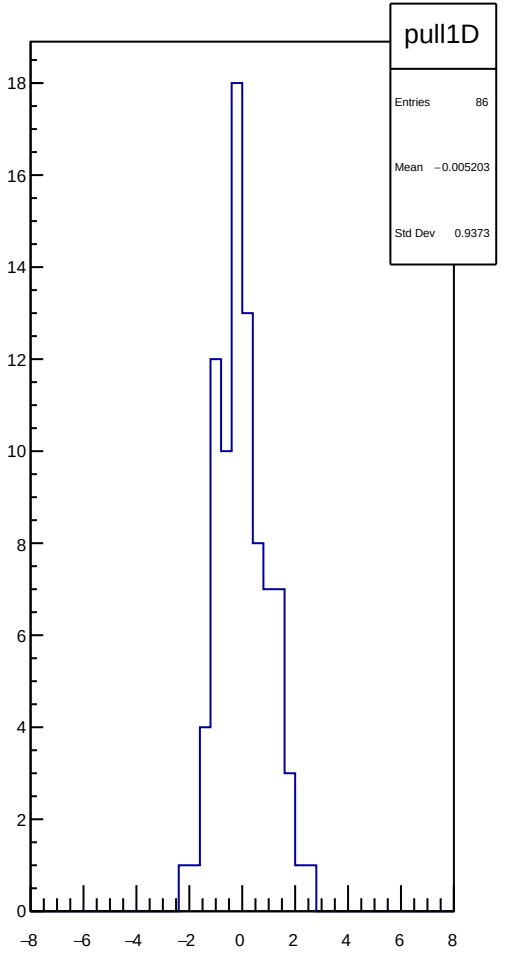
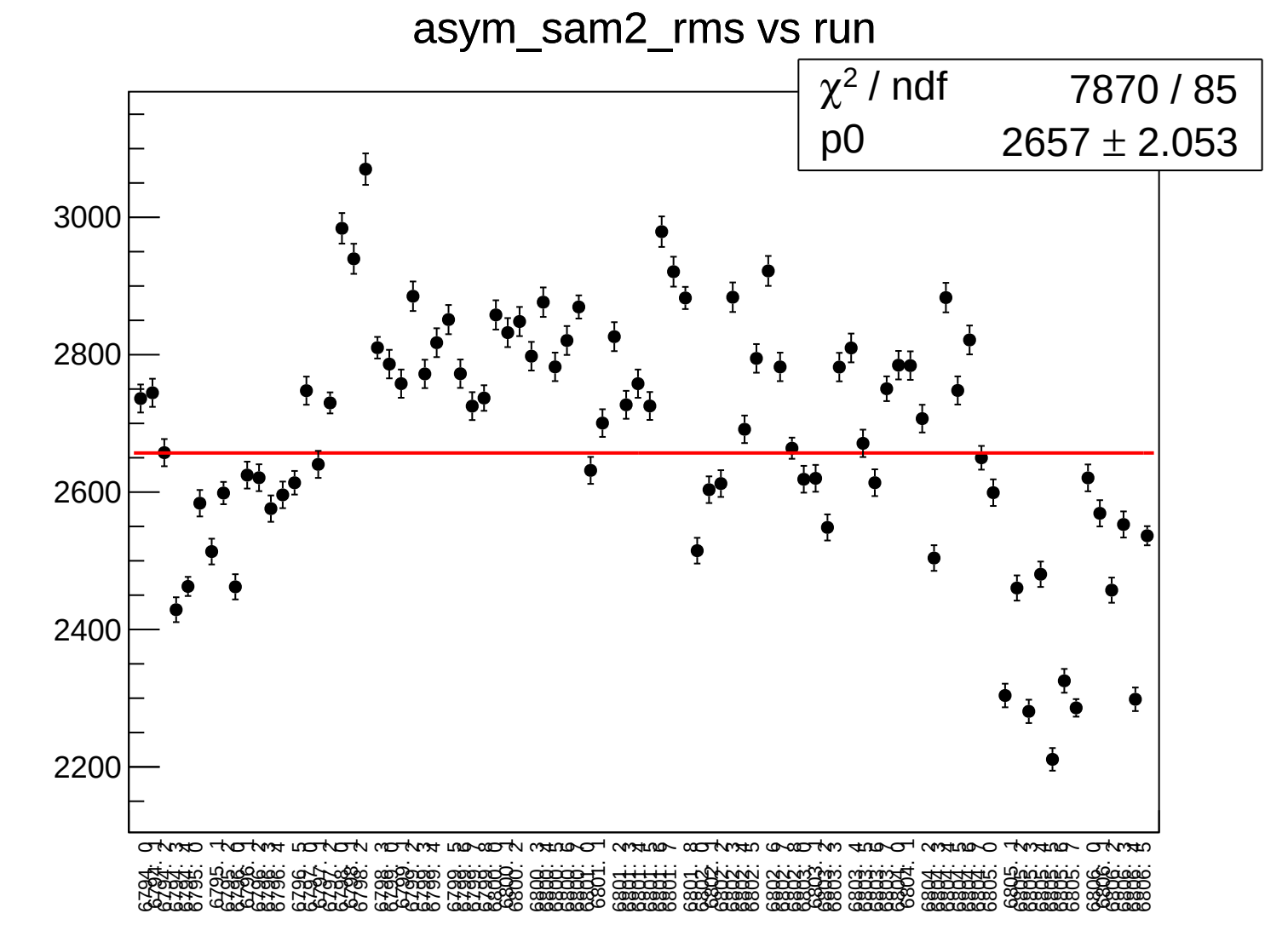
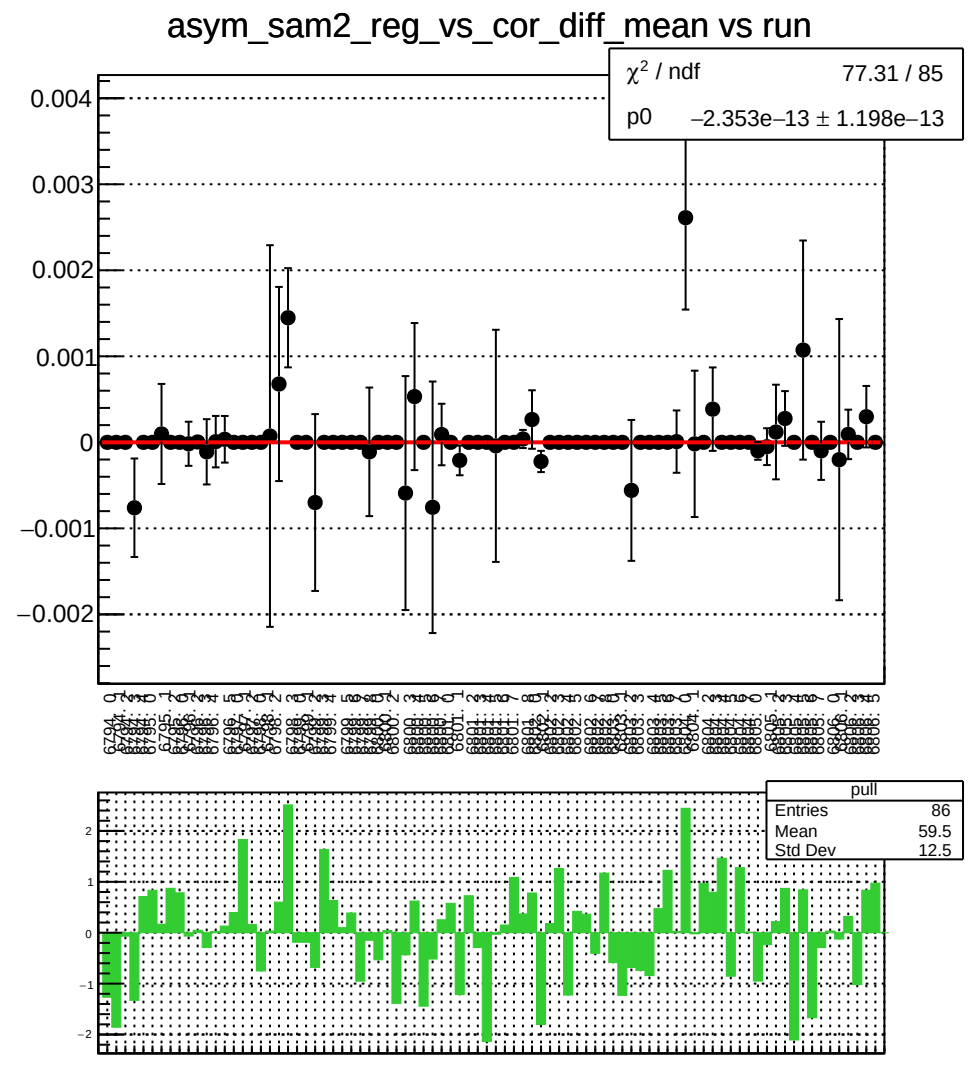
0
2
4
6
8

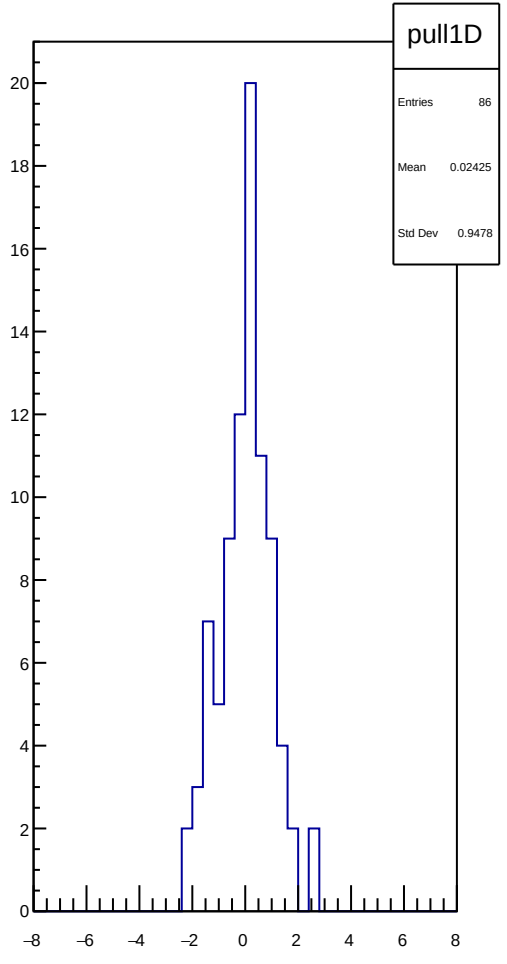

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 6767 / 85
p0 2646 ± 2.044
3000
2800
2600
2400
2200

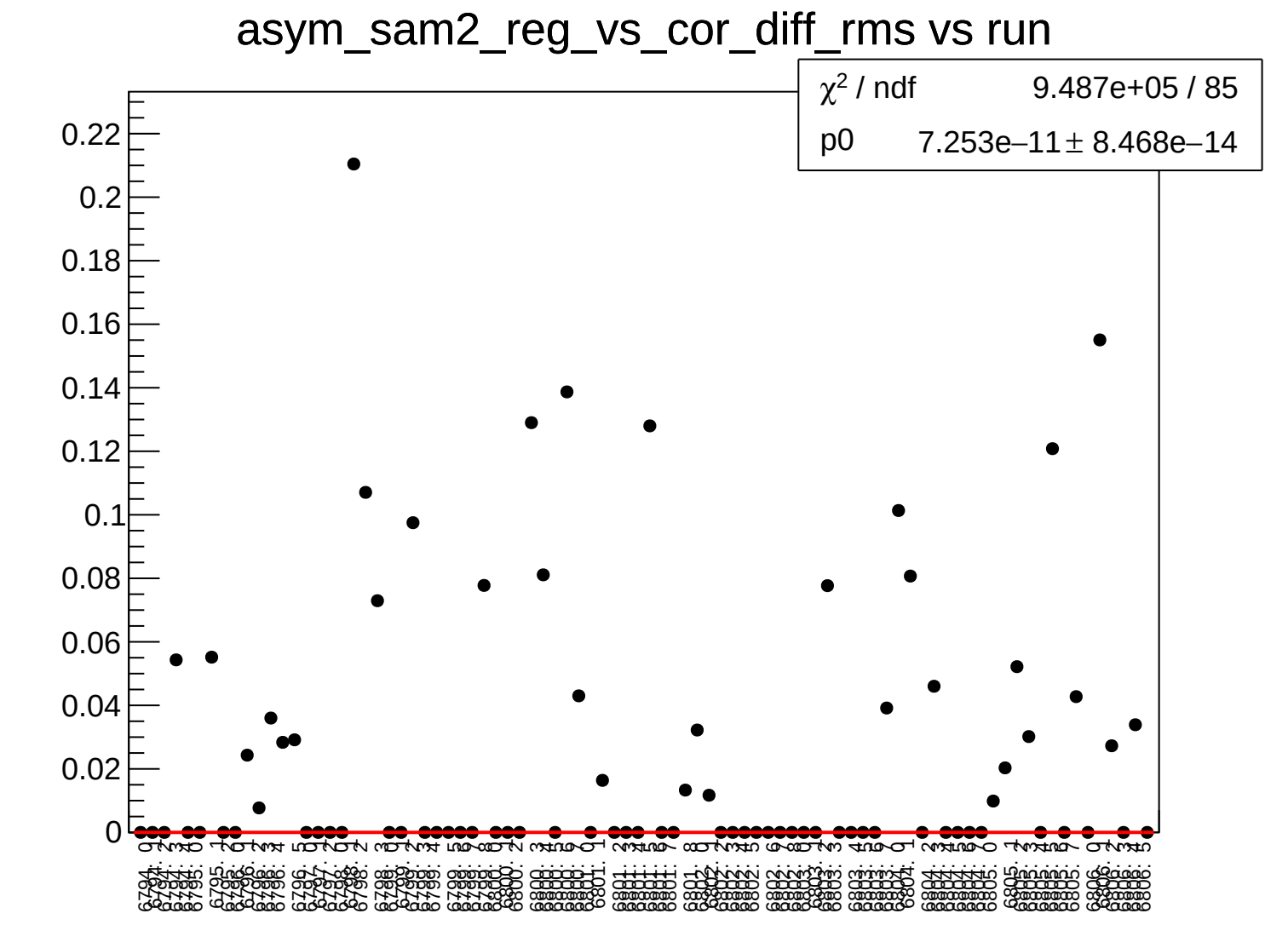

asym_sam2_mean vs run
×10^3
χ² / ndf 75.55 / 85
p0 −1262 ± 2904
100
50
0
−50
−100
pull
Entries 86
Mean −138.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

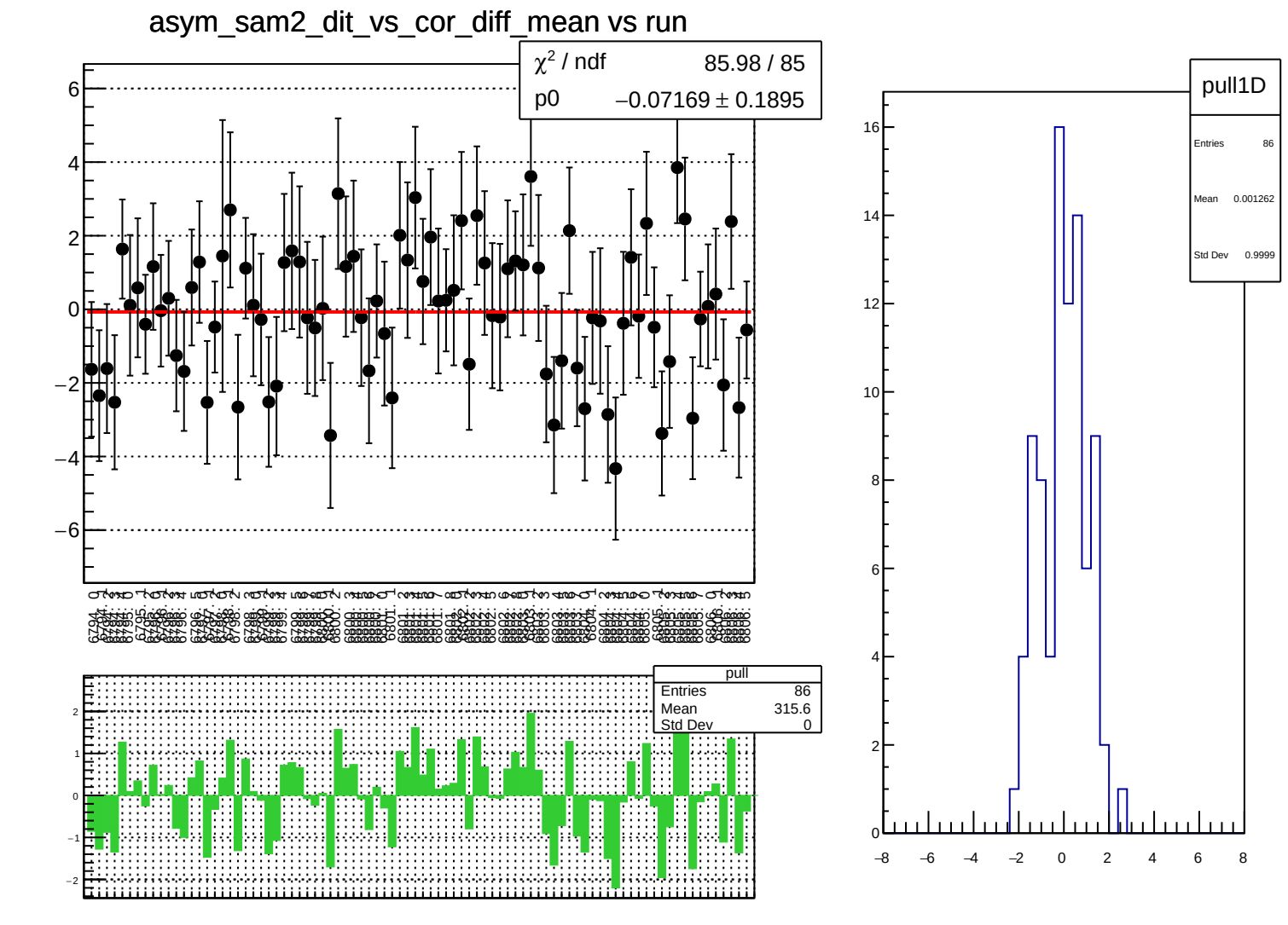

pull1D
Entries 86
Mean −0.005203
Std Dev 0.9373
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

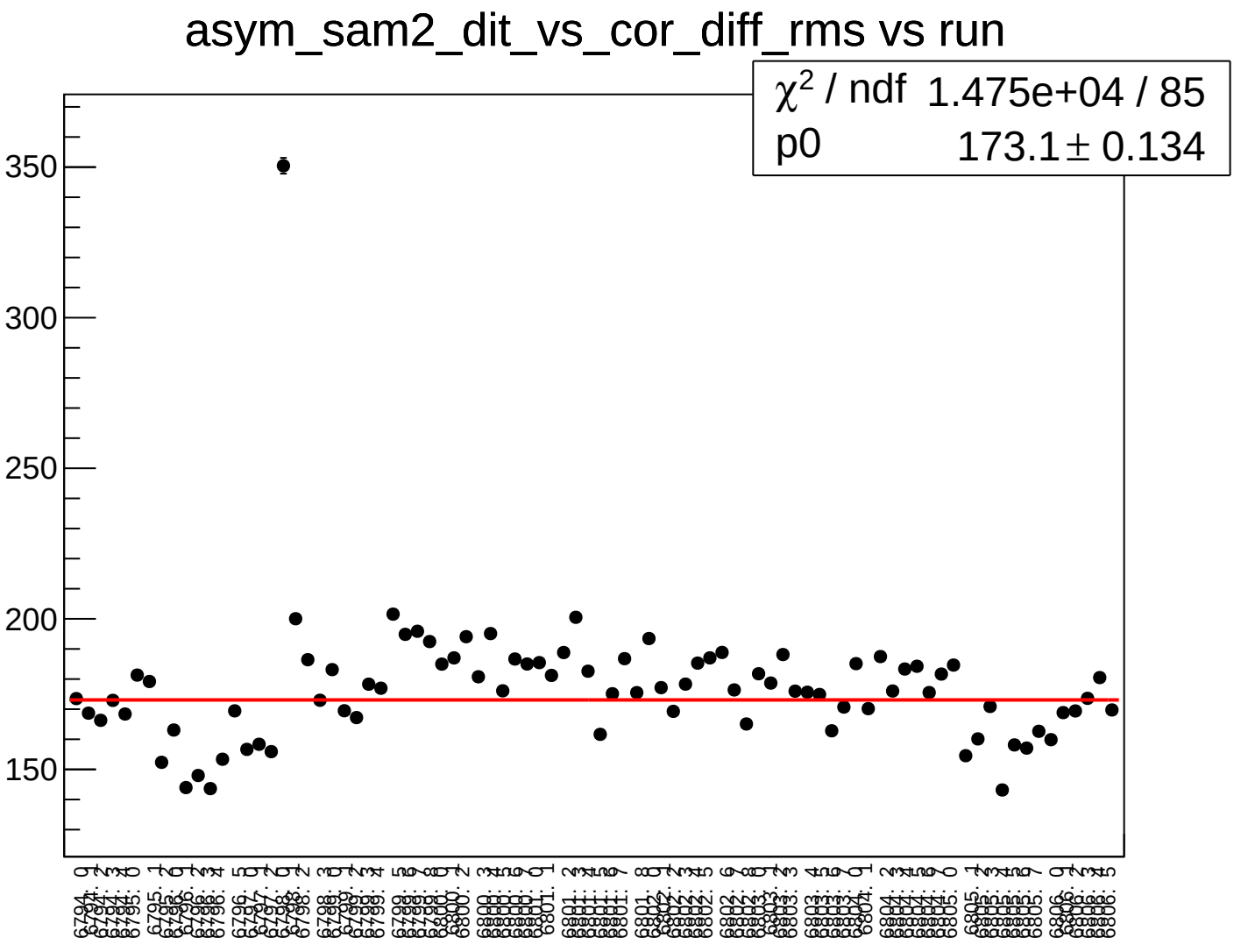

asym_sam2_rms vs run
χ² / ndf 7870 / 85
p0 2657 ± 2.053
3000
2800
2600
2400
2200

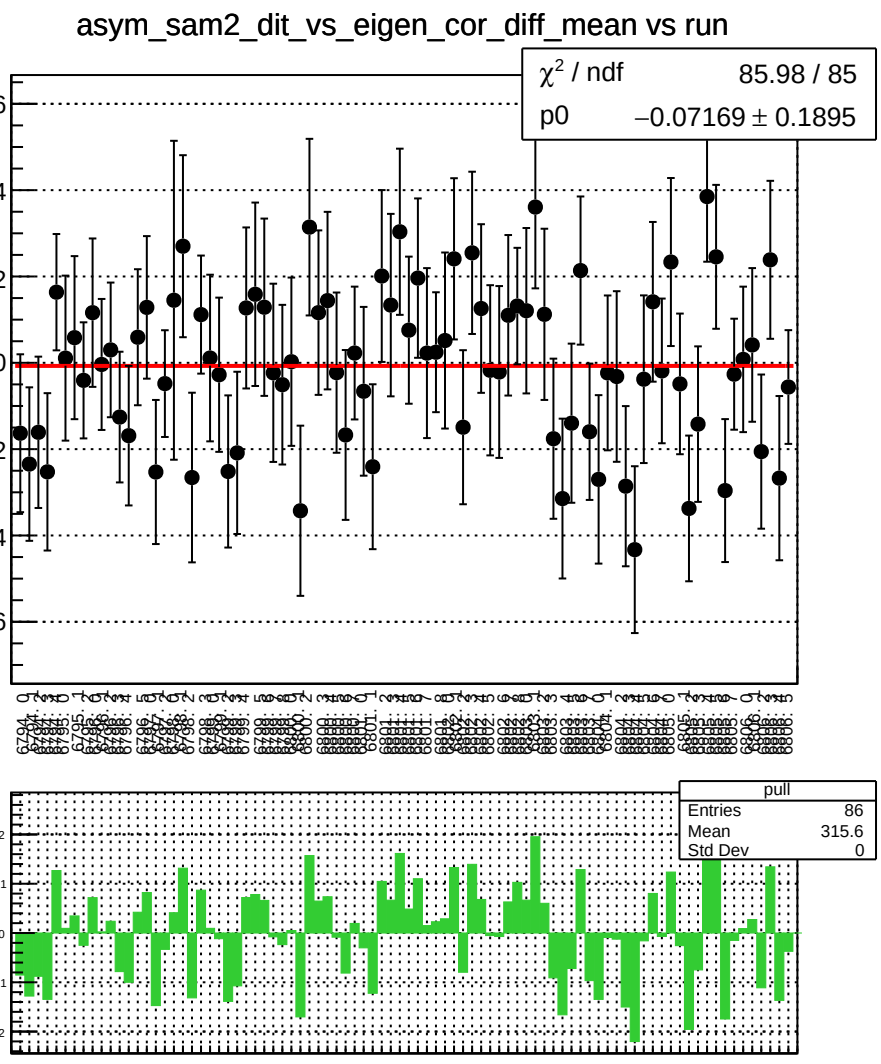

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 77.31 / 85
p0 −2.353e−13 ± 1.198e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 59.5
Std Dev 12.5
2
1
0
−1
−2

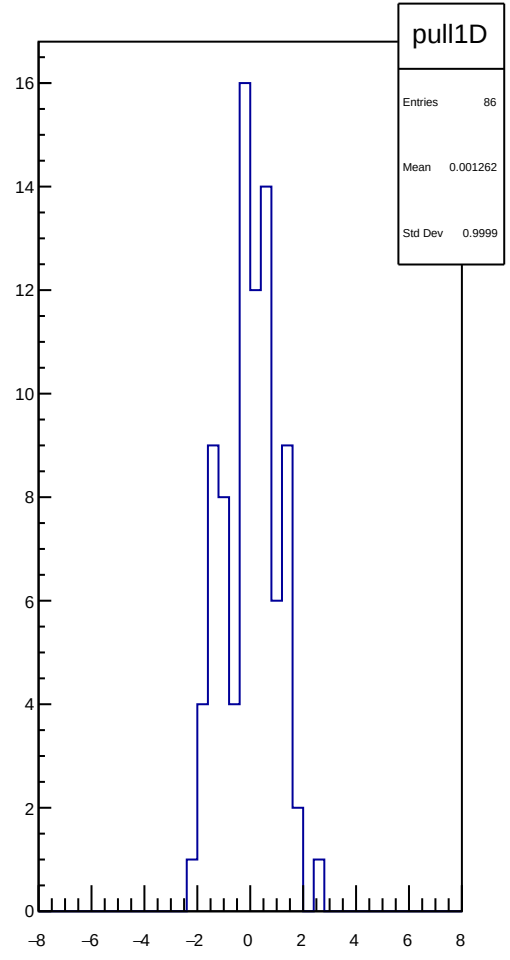

pull1D
Entries 86
Mean 0.02425
Std Dev 0.9478
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

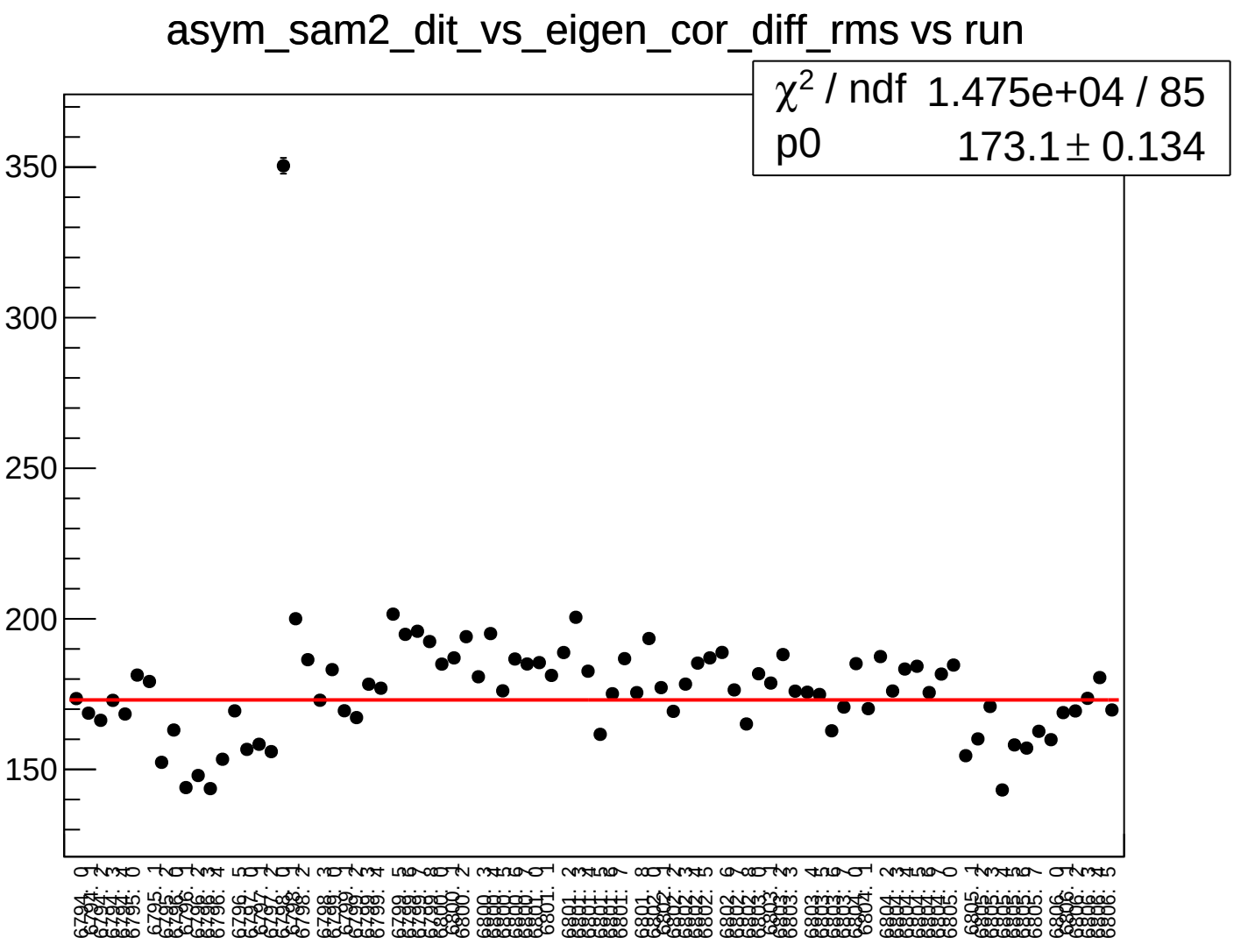

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 9.487e+05 / 85
p0 7.253e−11 ± 8.468e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

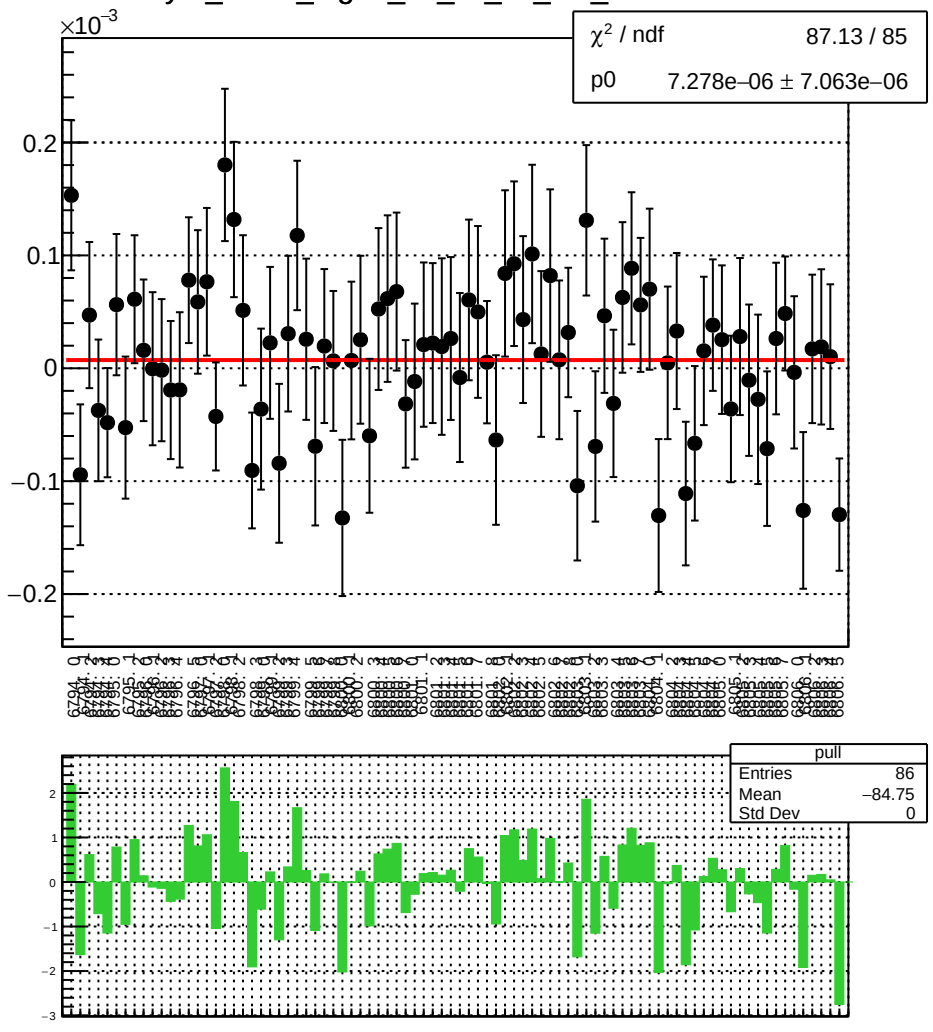

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 −0.07169 ± 0.1895
pull
Entries 86
Mean 315.6
Std Dev 0
pull1D
Entries 86
Mean 0.001262
Std Dev 0.9999

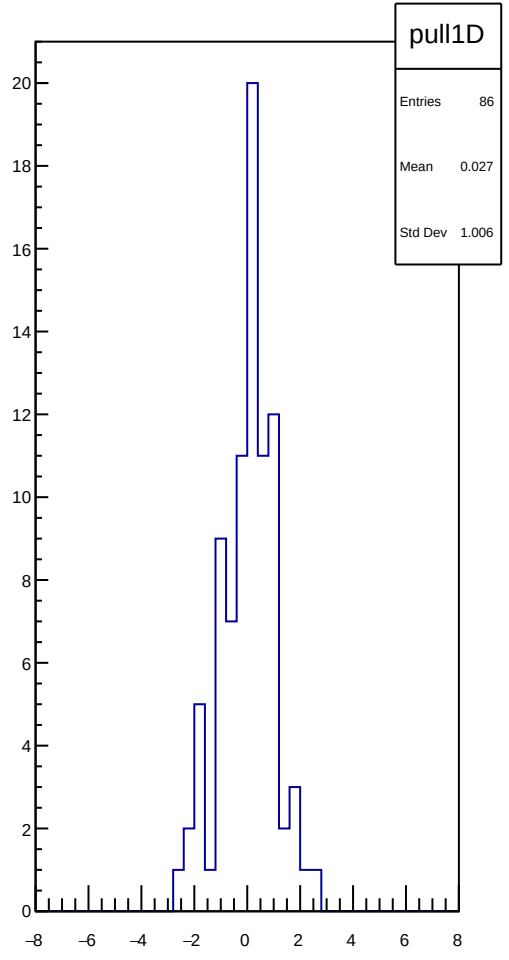

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.475e+04 / 85
p0 173.1 ± 0.134
350
300
250
200
150

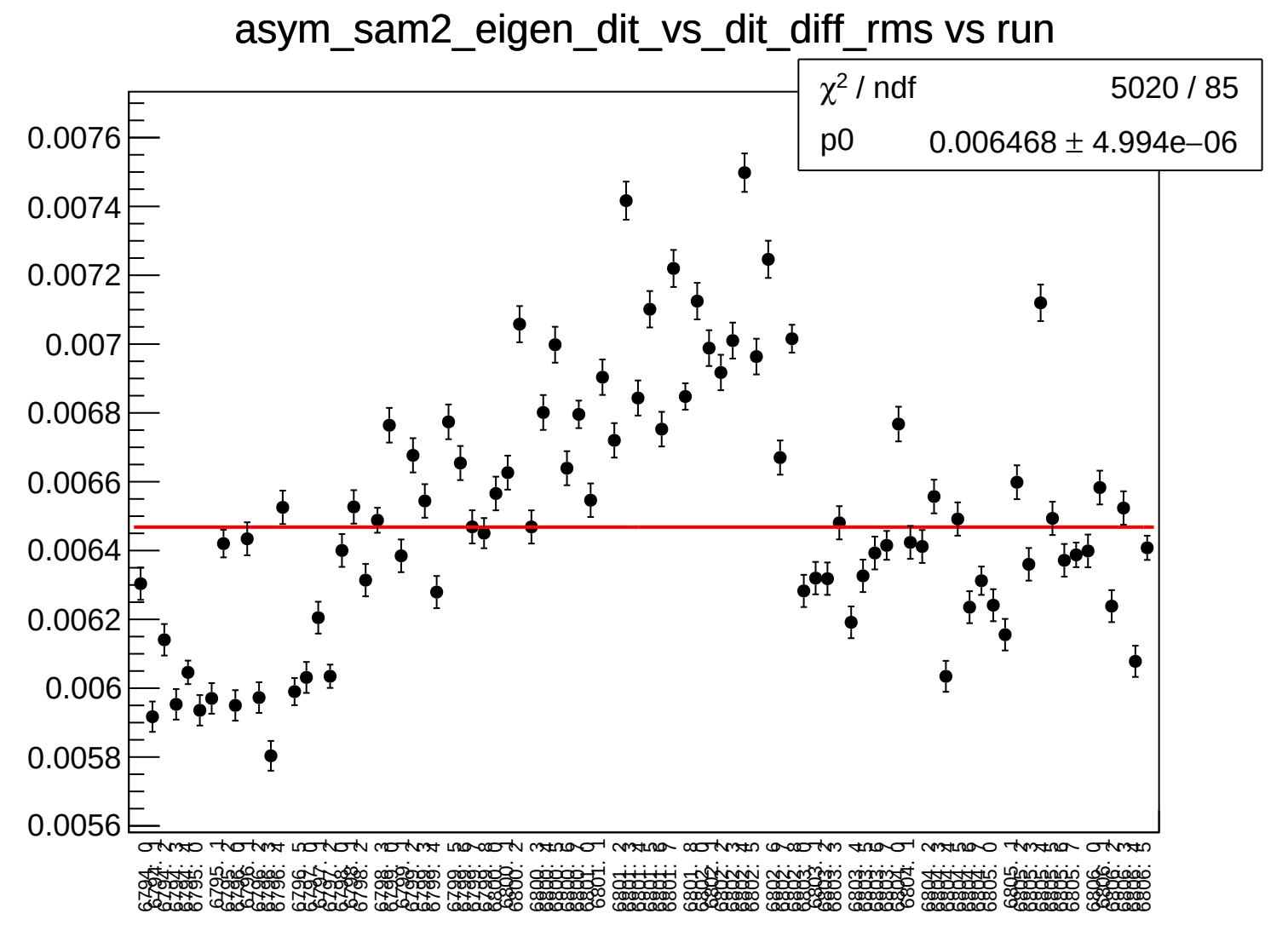

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 −0.07169 ± 0.1895
pull
Entries 86
Mean 315.6
Std Dev 0

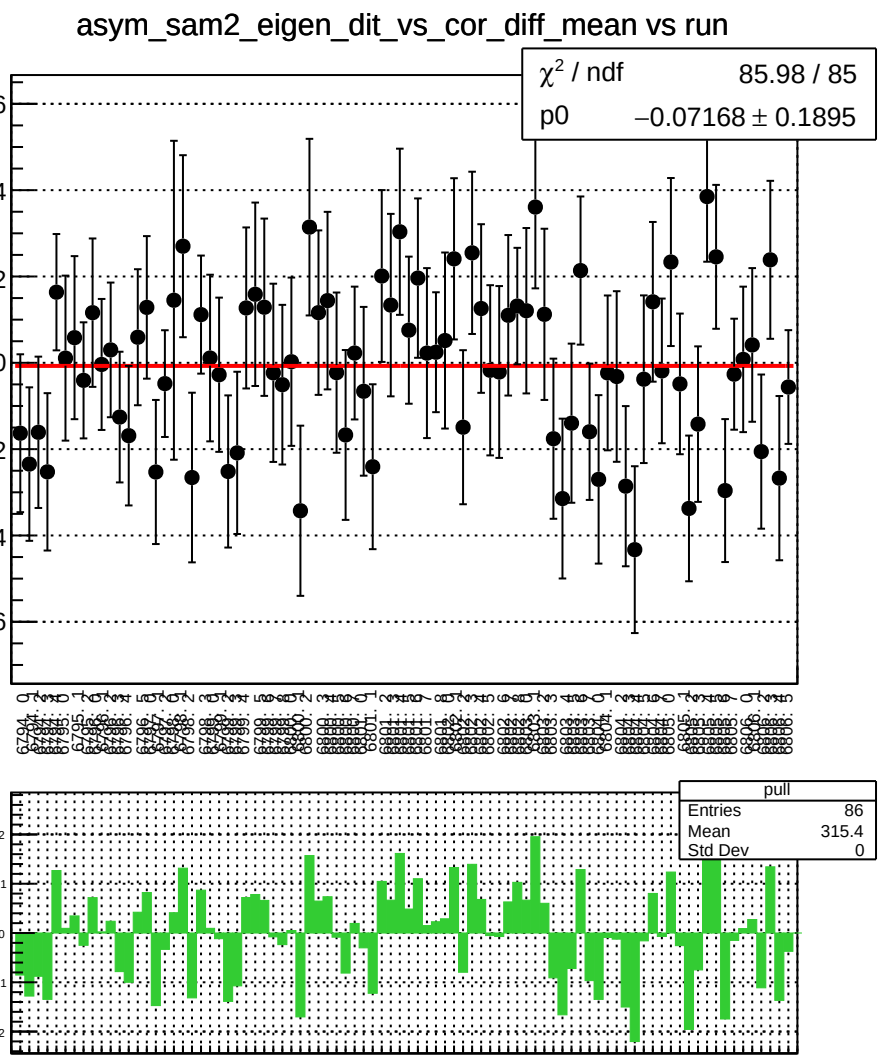

pull1D
Entries 86
Mean 0.001262
Std Dev 0.9999

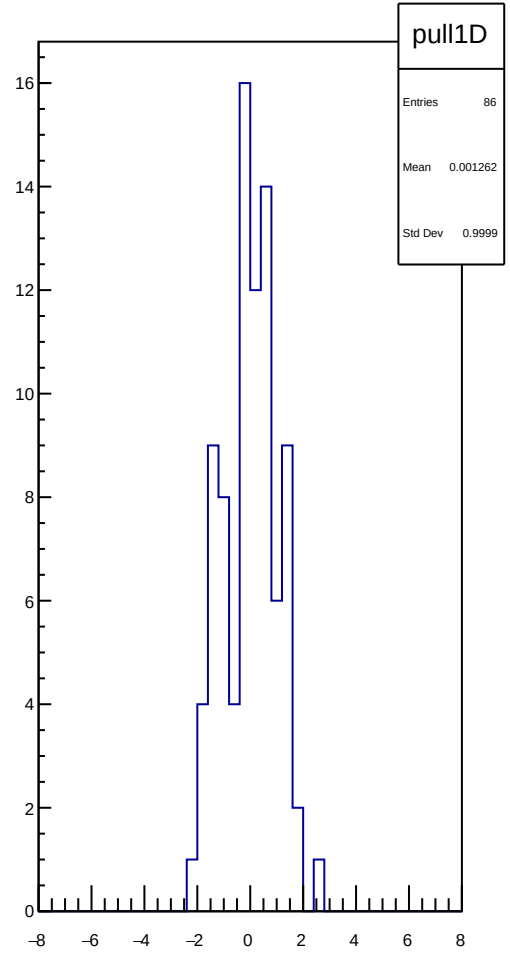

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.475e+04 / 85
p0 173.1 ± 0.134
350
300
250
200
150

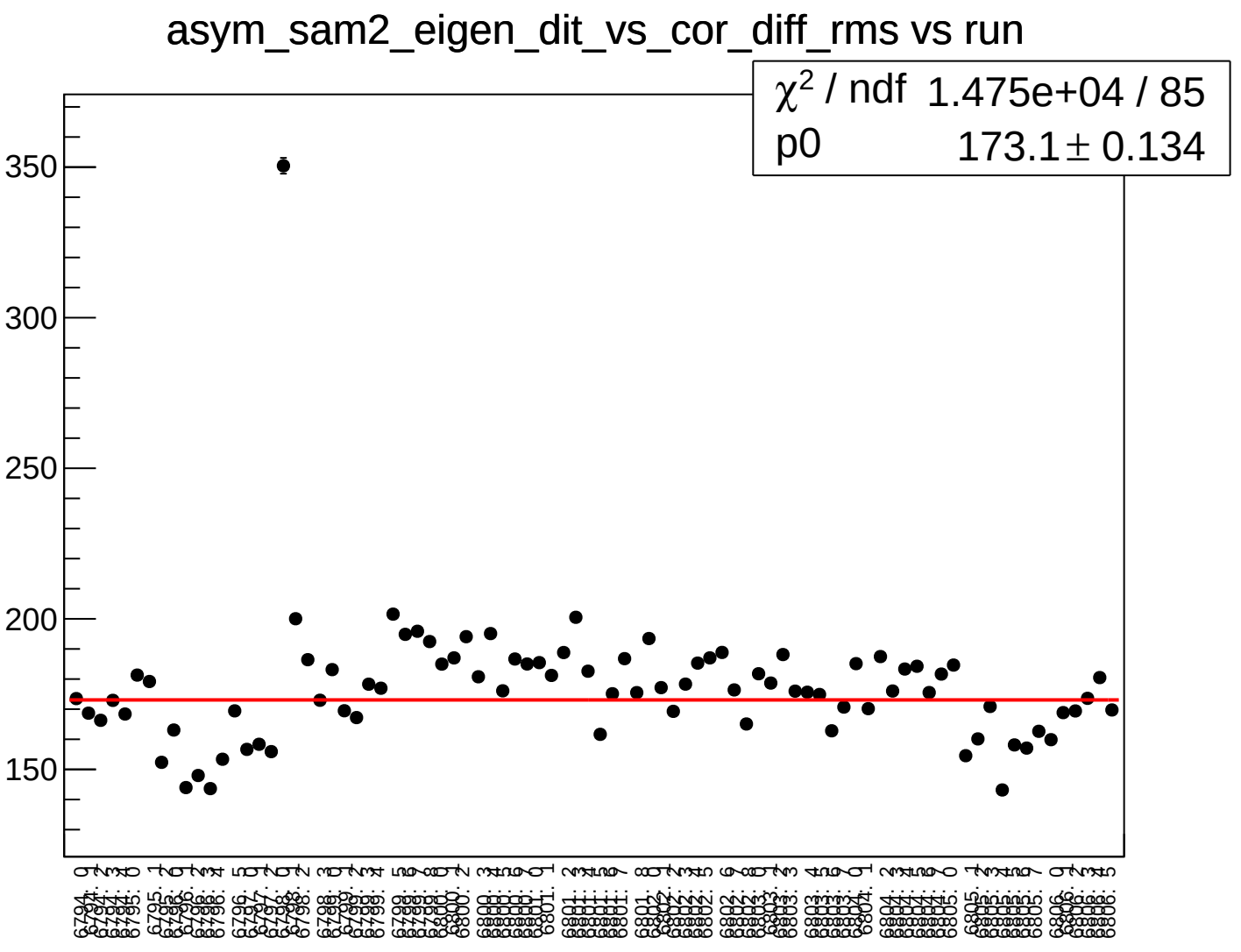

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.13 / 85
p0 7.278e−06 ± 7.063e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 86
Mean −84.75
Std Dev 0
2
1
0
−1
−2
−3

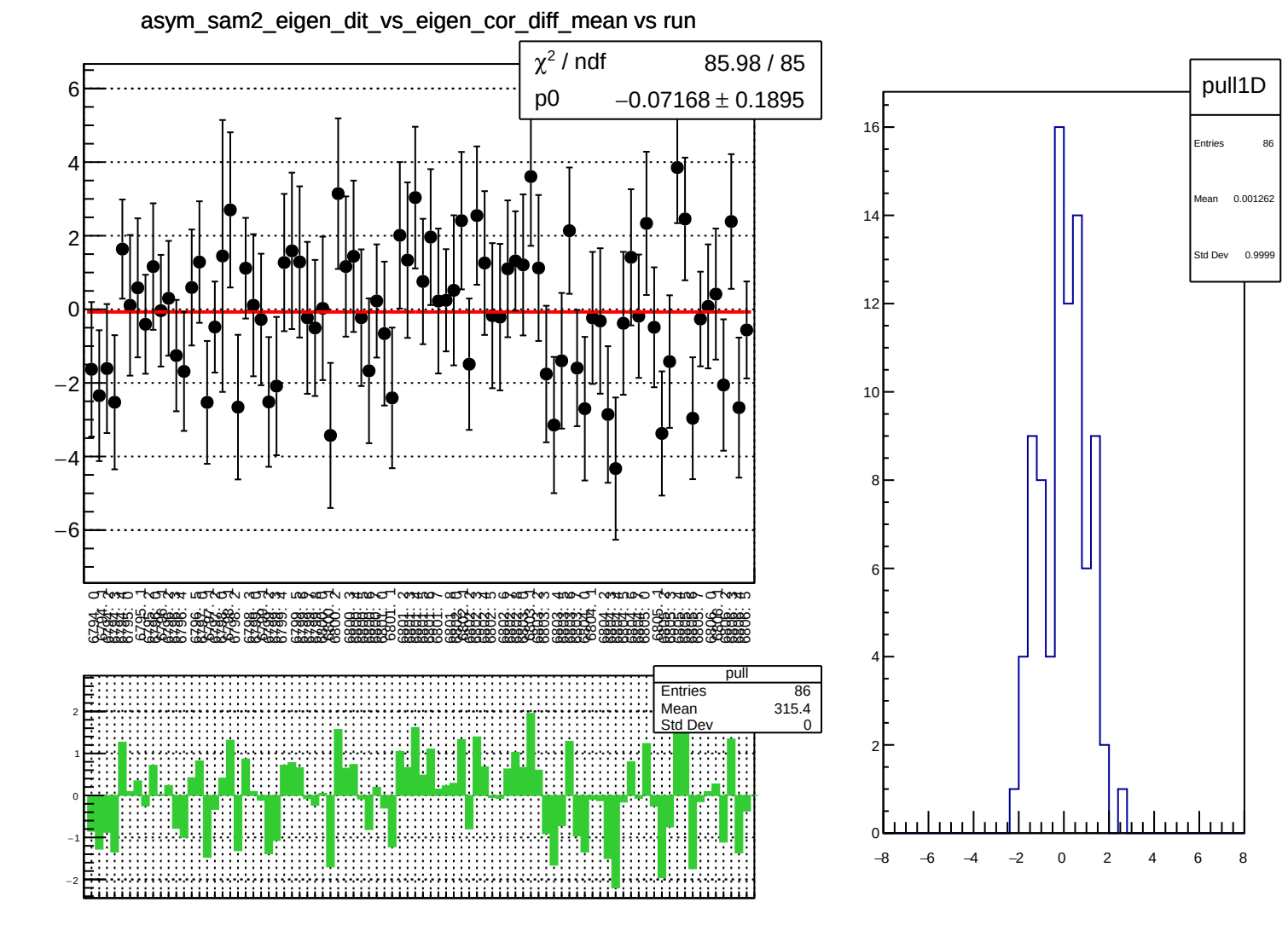

pull1D
Entries 86
Mean 0.027
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

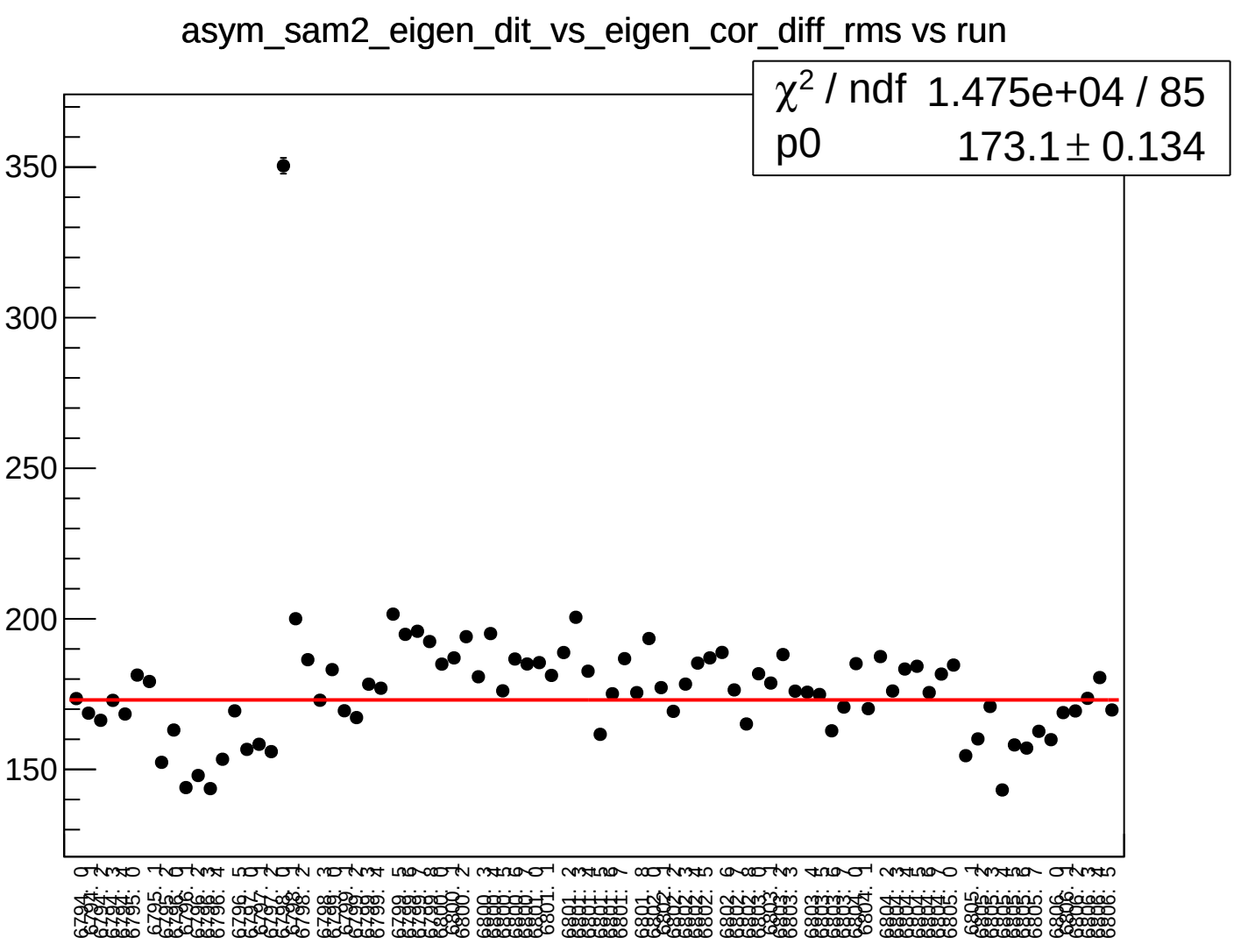

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5020 / 85
p0 0.006468 ± 4.994e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056

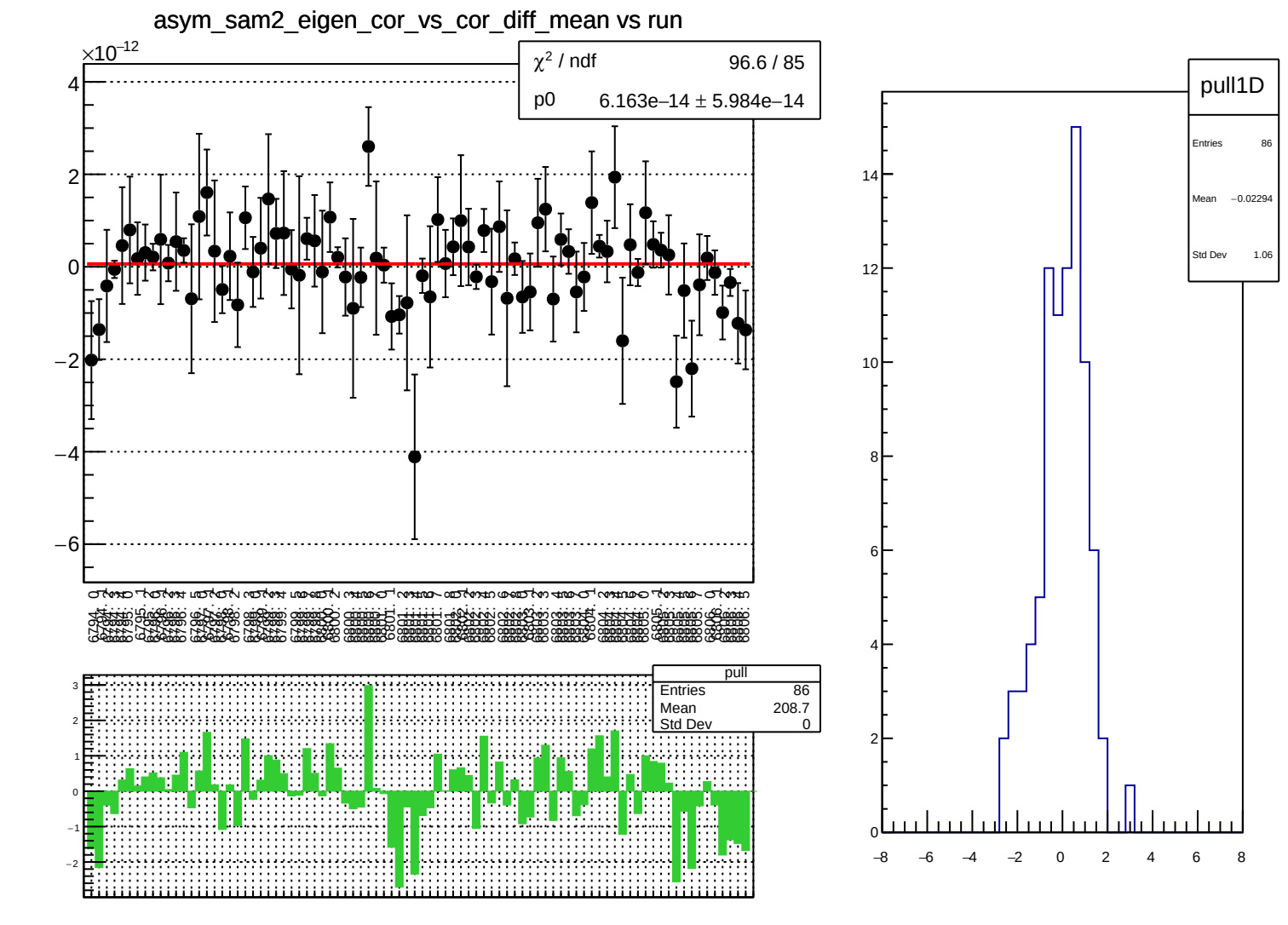

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 −0.07168 ± 0.1895
pull
Entries 86
Mean 315.4
Std Dev 0

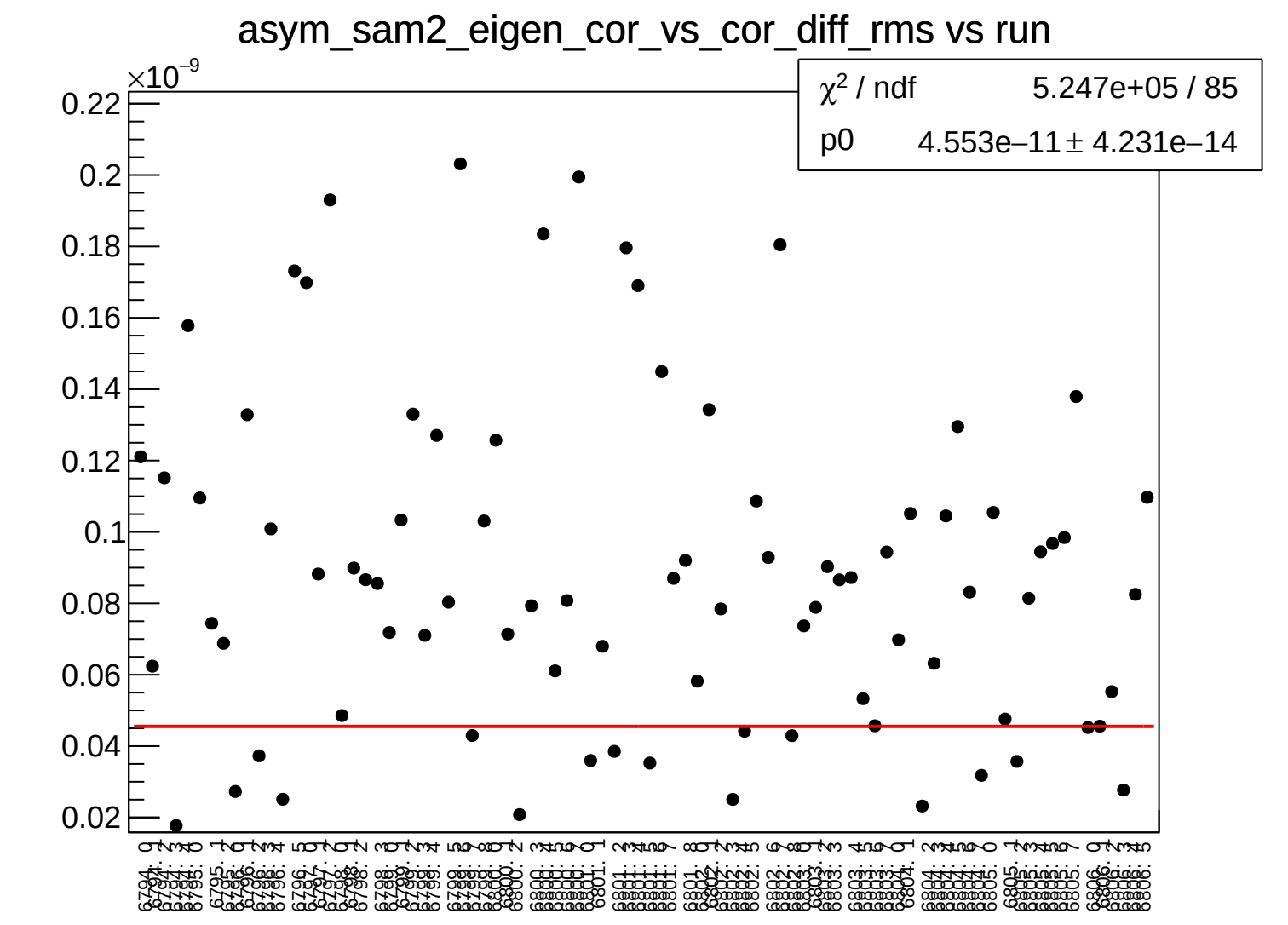

pull1D
Entries 86
Mean 0.001262
Std Dev 0.9999

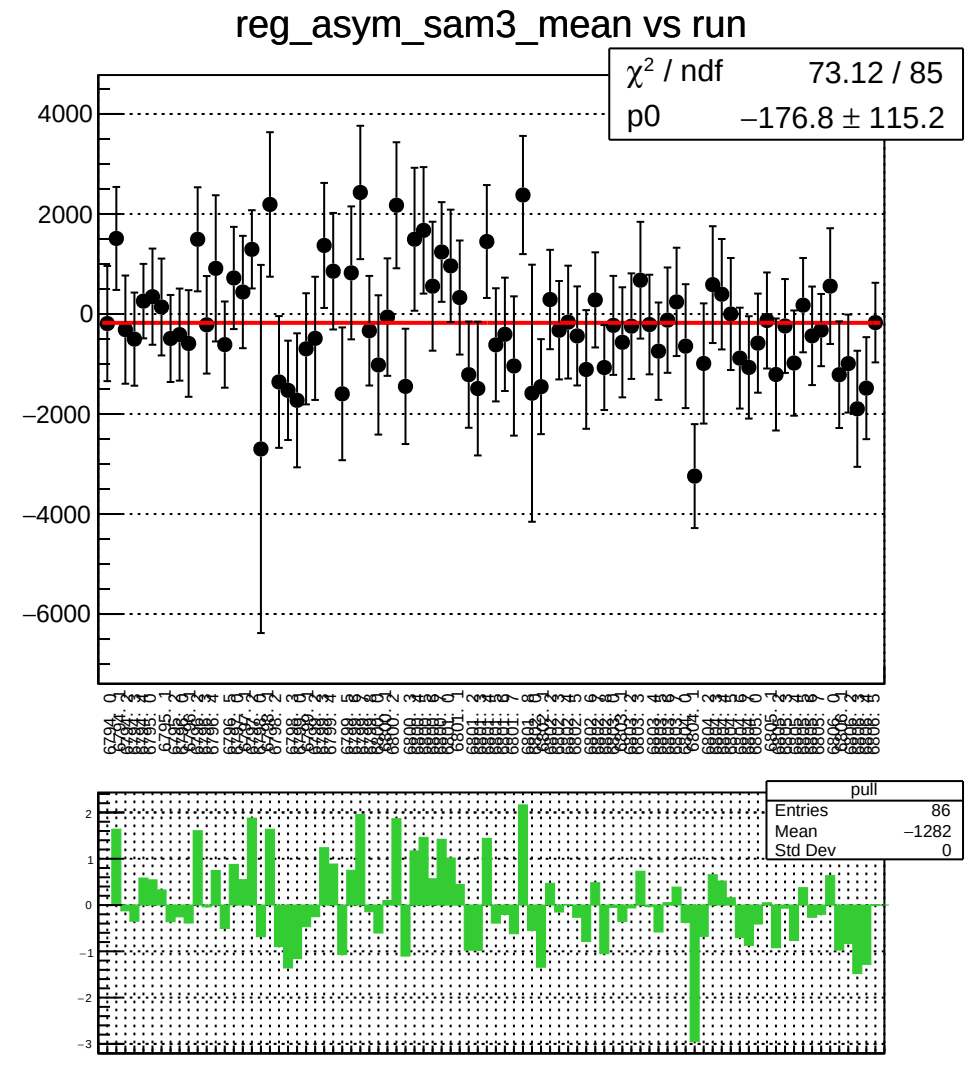

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.475e+04 / 85
p0 173.1 ± 0.134
350
300
250
200
150

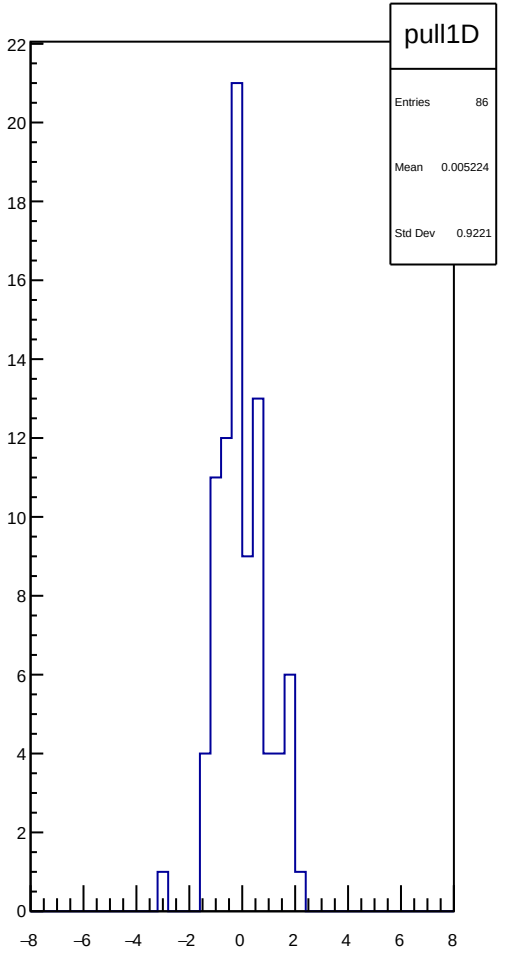

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.98 / 85
p0 −0.07168 ± 0.1895
pull
Entries 86
Mean 315.4
Std Dev 0
pull1D
Entries 86
Mean 0.001262
Std Dev 0.9999

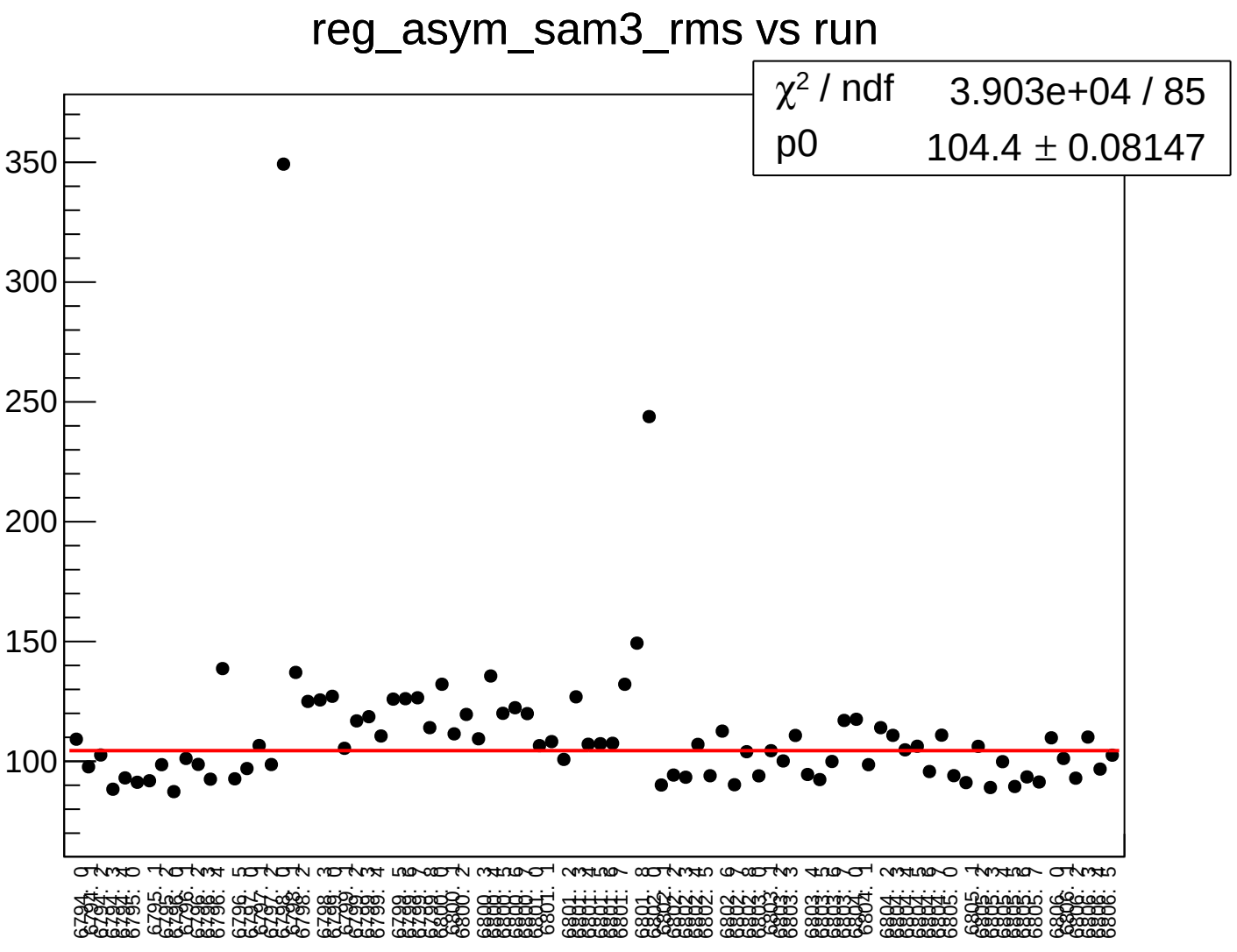

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.475e+04 / 85
p0 173.1 ± 0.134
350
300
250
200
150

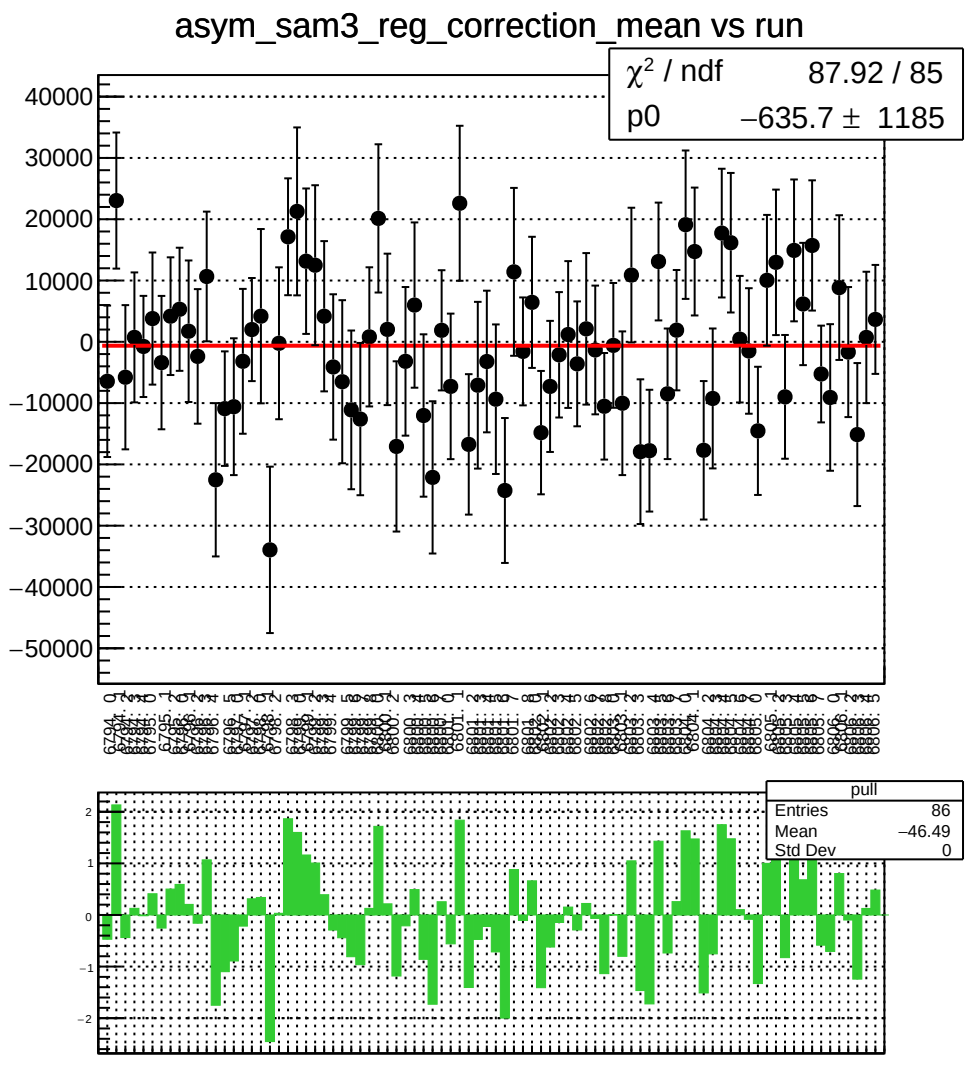

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.6 / 85
p0 6.163e−14 ± 5.984e−14
pull
Entries 86
Mean 208.7
Std Dev 0
pull1D
Entries 86
Mean −0.02294
Std Dev 1.06

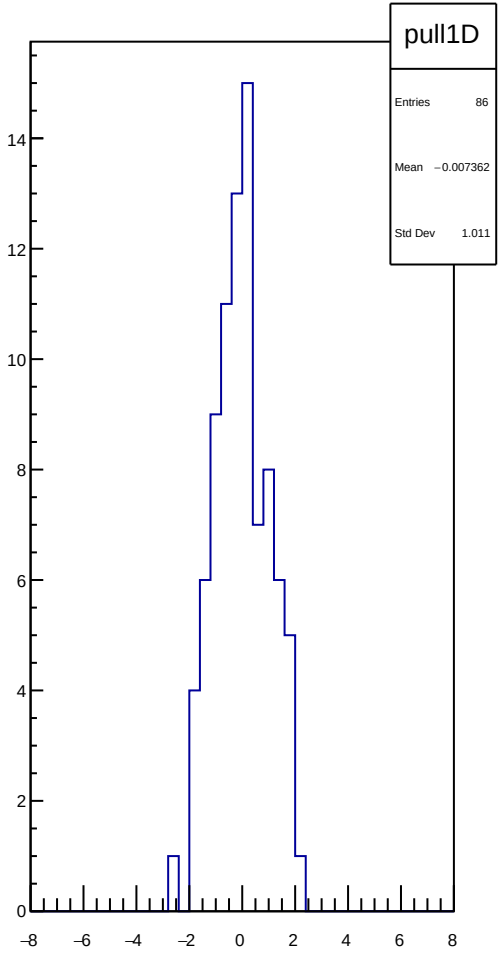

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.247e+05 / 85
p0 4.553e−11 ± 4.231e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

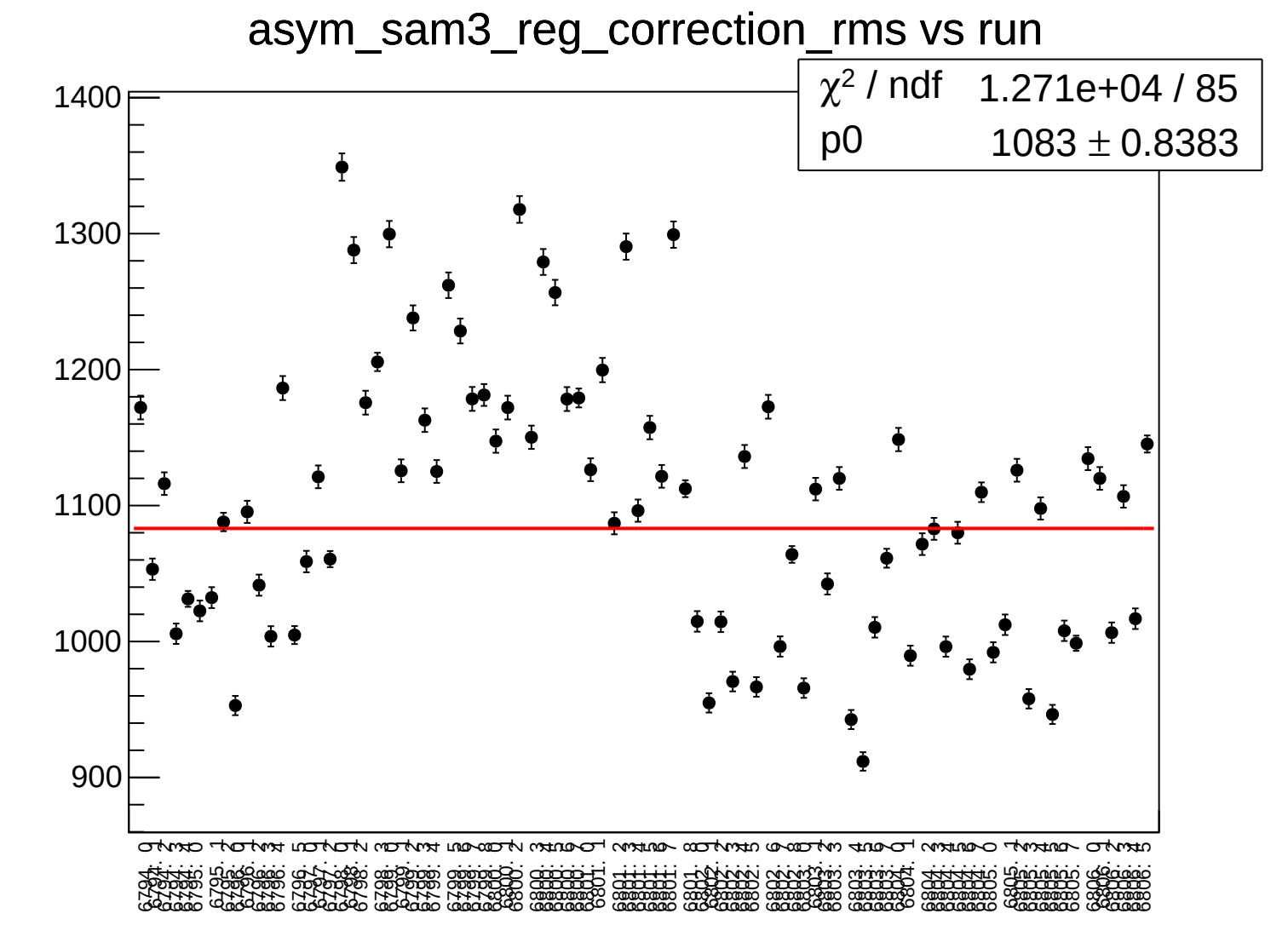

reg_asym_sam3_mean vs run
χ² / ndf 73.12 / 85
p0 −176.8 ± 115.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −1282
Std Dev 0
2
1
0
−1
−2
−3

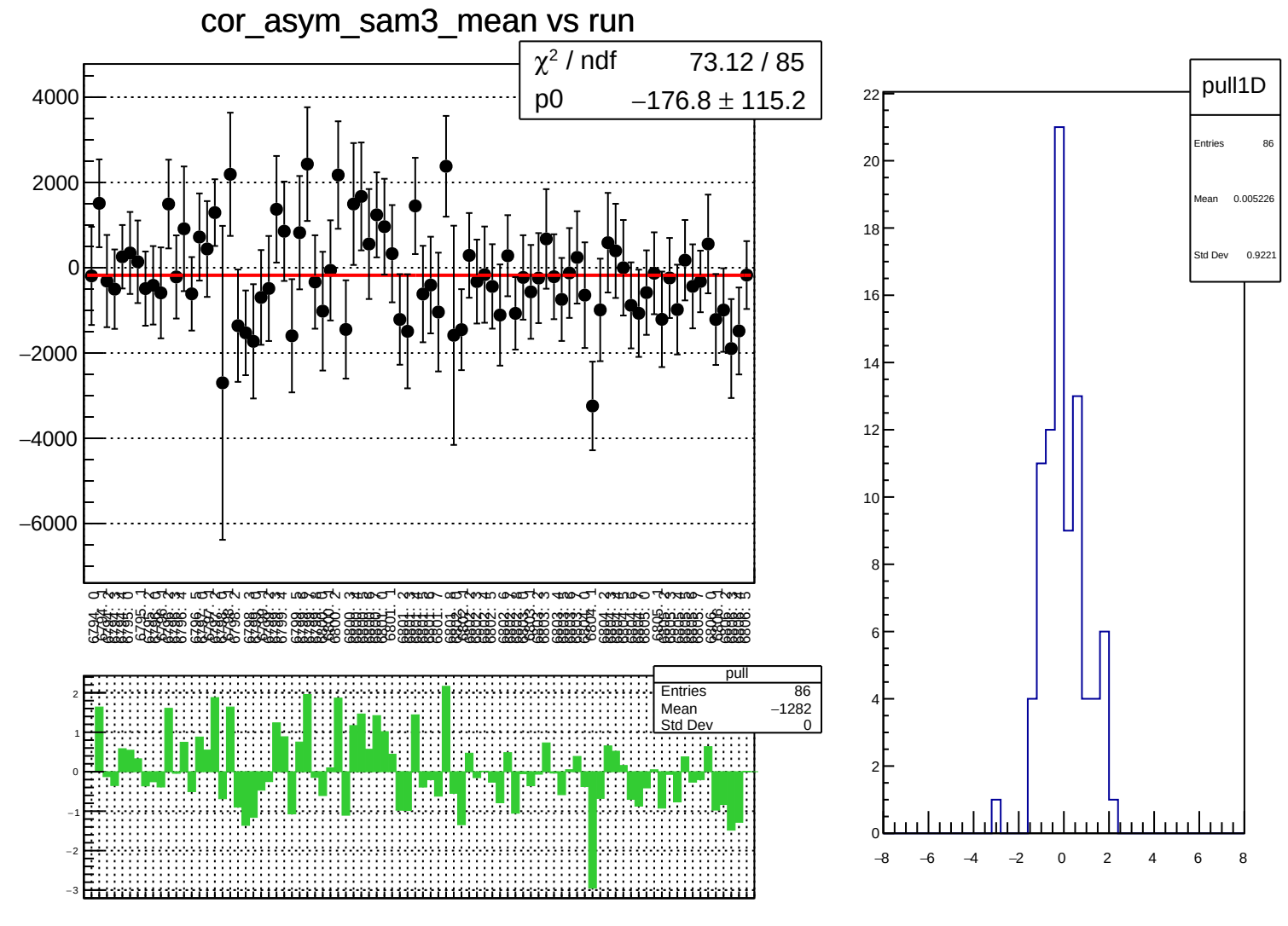

pull1D
Entries 86
Mean 0.005224
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

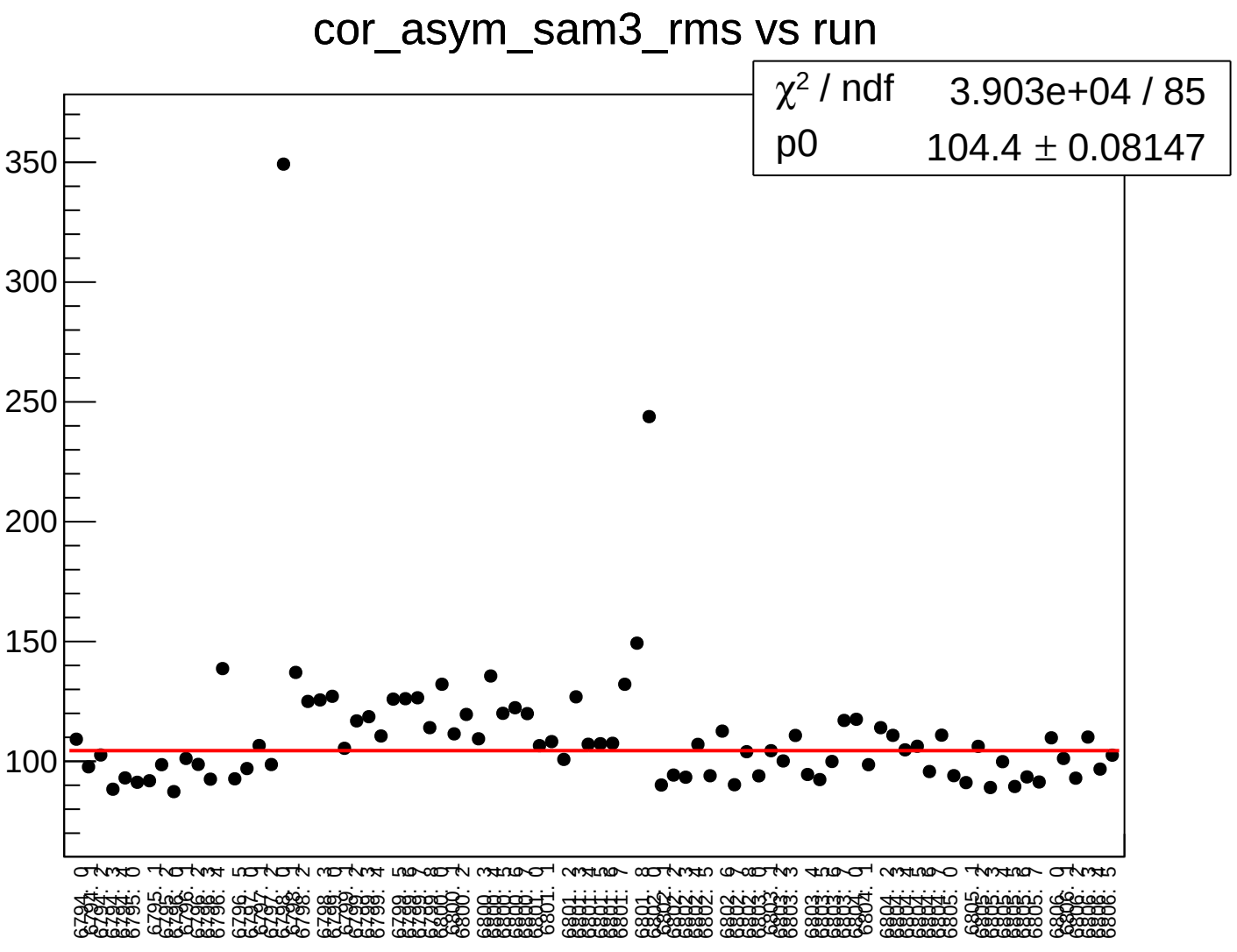

reg_asym_sam3_rms vs run
χ² / ndf 3.903e+04 / 85
p0 104.4 ± 0.08147
350
300
250
200
150
100

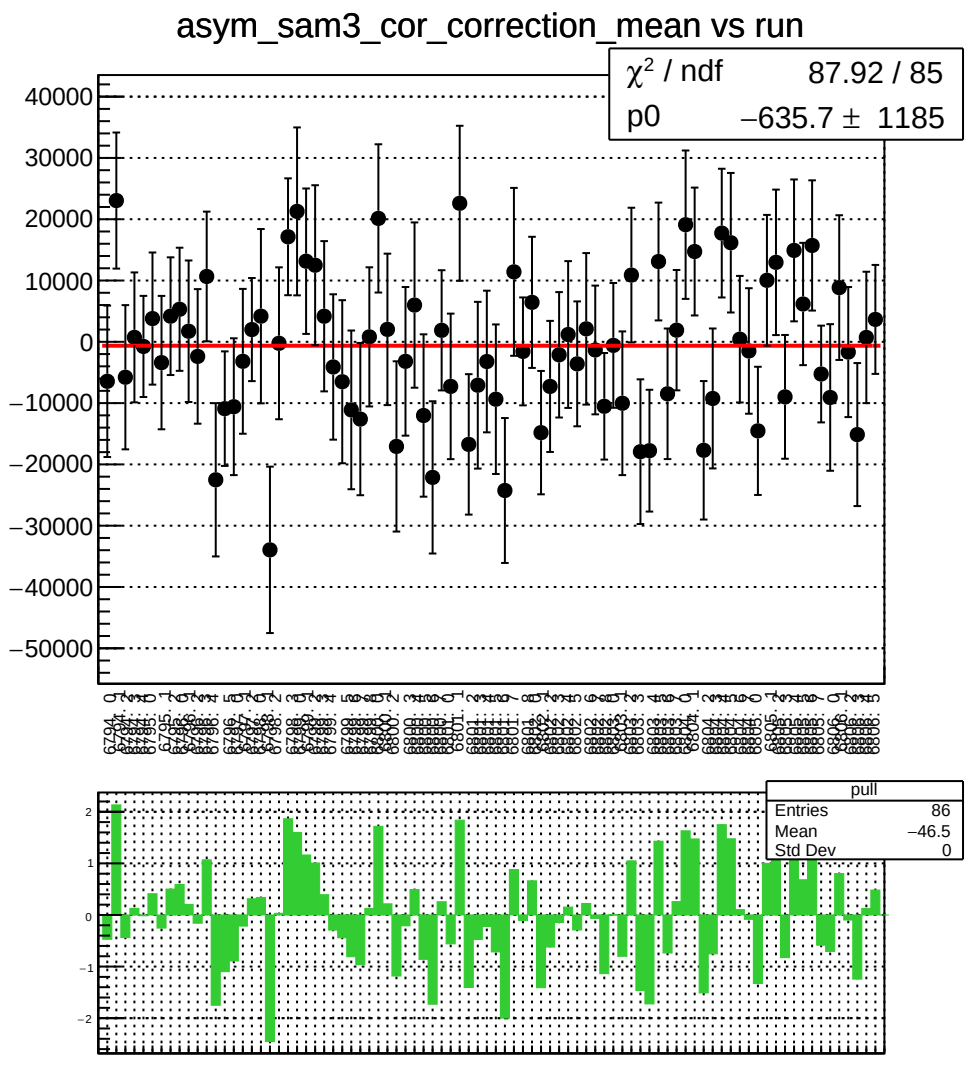

asym_sam3_reg_correction_mean vs run
χ² / ndf 87.92 / 85
p0 −635.7 ± 1185
pull
Entries 86
Mean −46.49
Std Dev 0

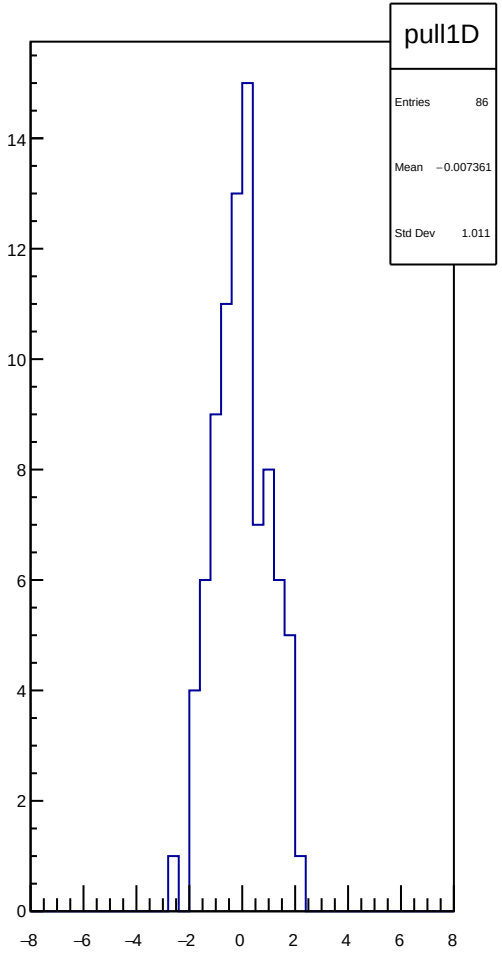

pull1D
Entries 86
Mean −0.007362
Std Dev 1.011

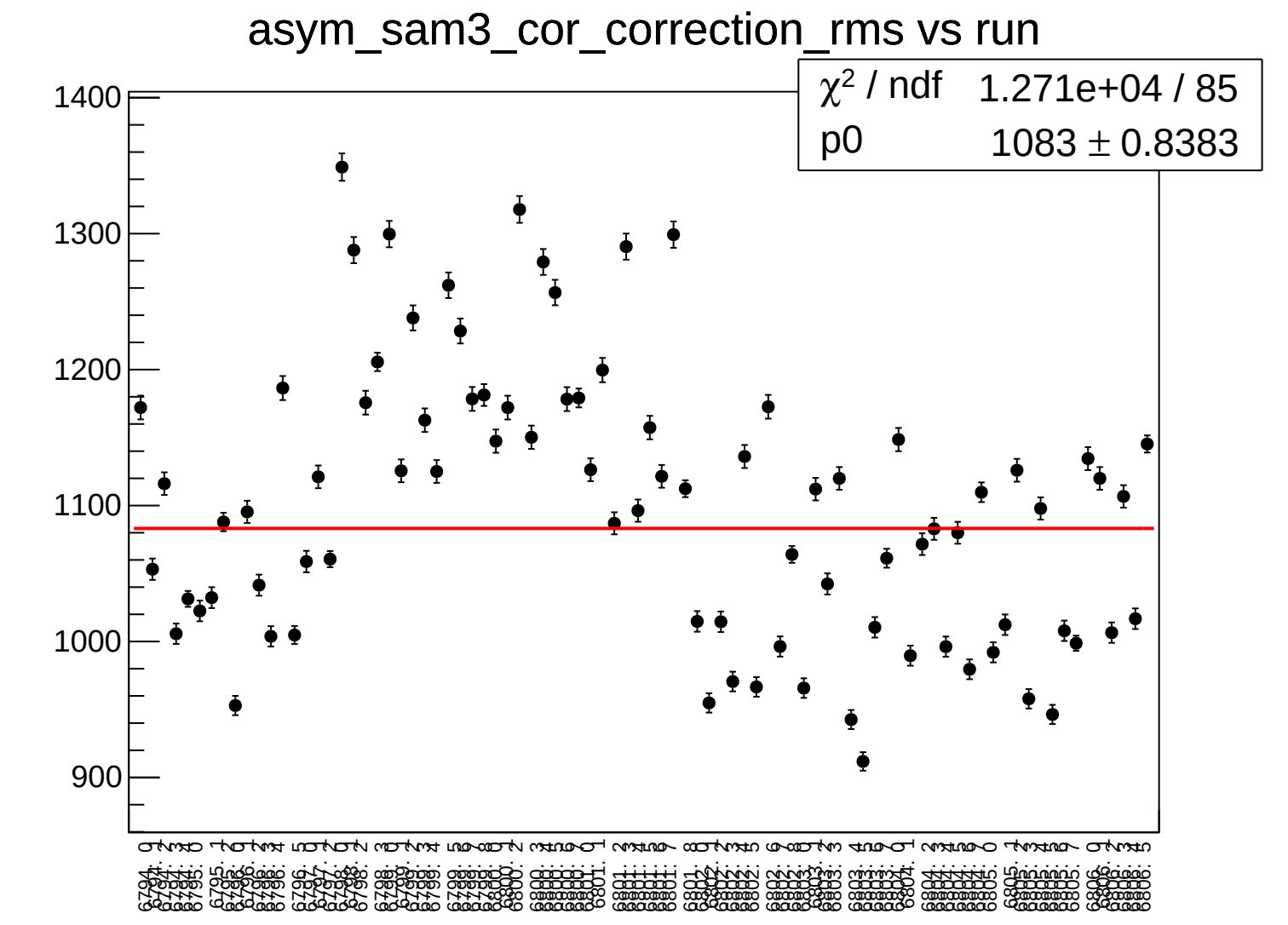

asym_sam3_reg_correction_rms vs run
χ² / ndf 1.271e+04 / 85
p0 1083 ± 0.8383
1400
1300
1200
1100
1000
900

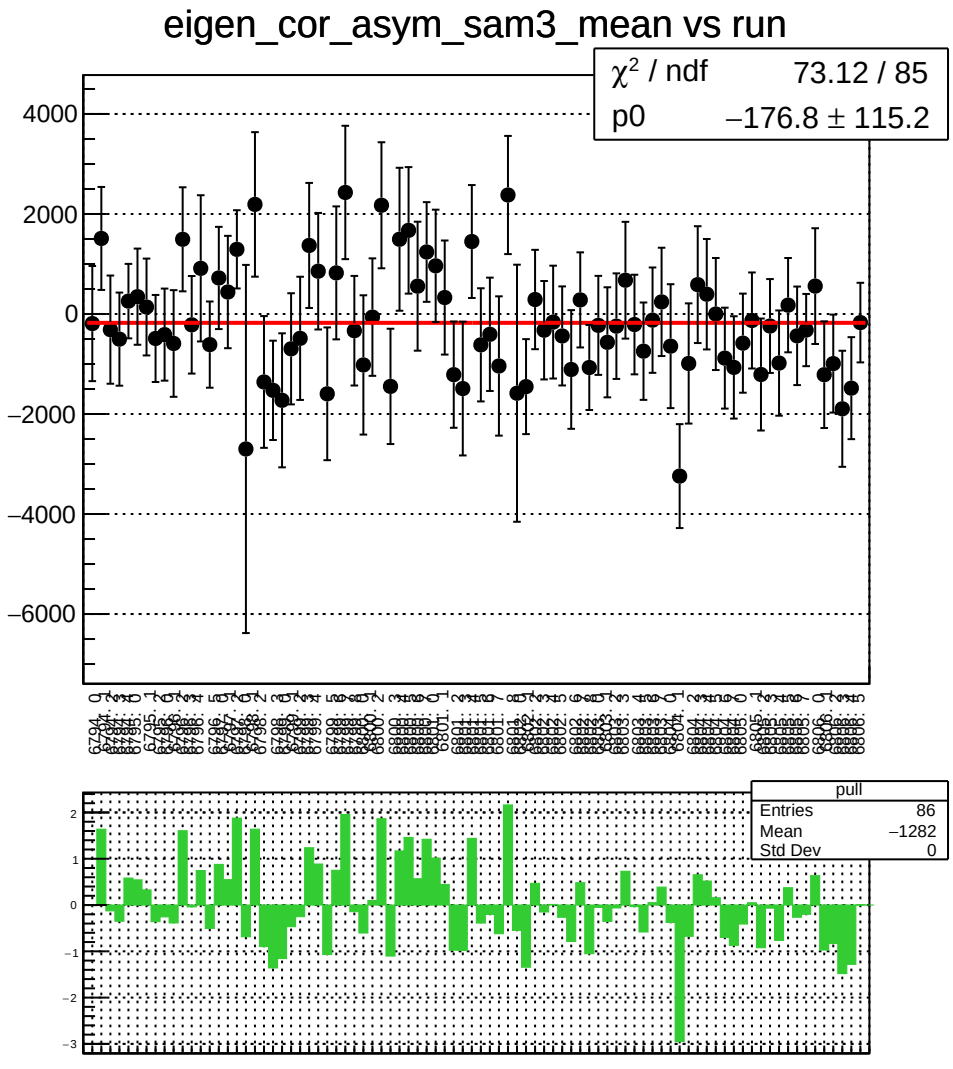

cor_asym_sam3_mean vs run
χ² / ndf 73.12 / 85
p0 −176.8 ± 115.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −1282
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.005226
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

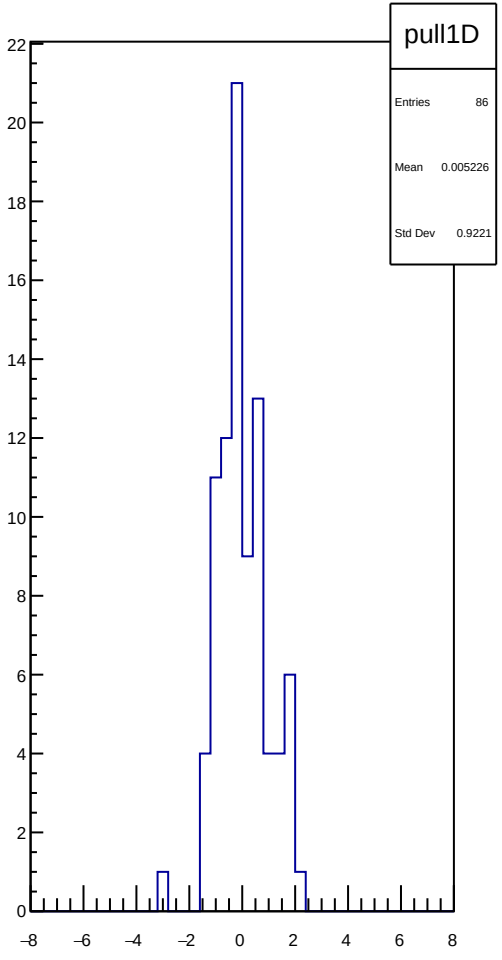

cor_asym_sam3_rms vs run
χ^2 / ndf 3.903e+04 / 85
p0 104.4 ± 0.08147
350
300
250
200
150
100

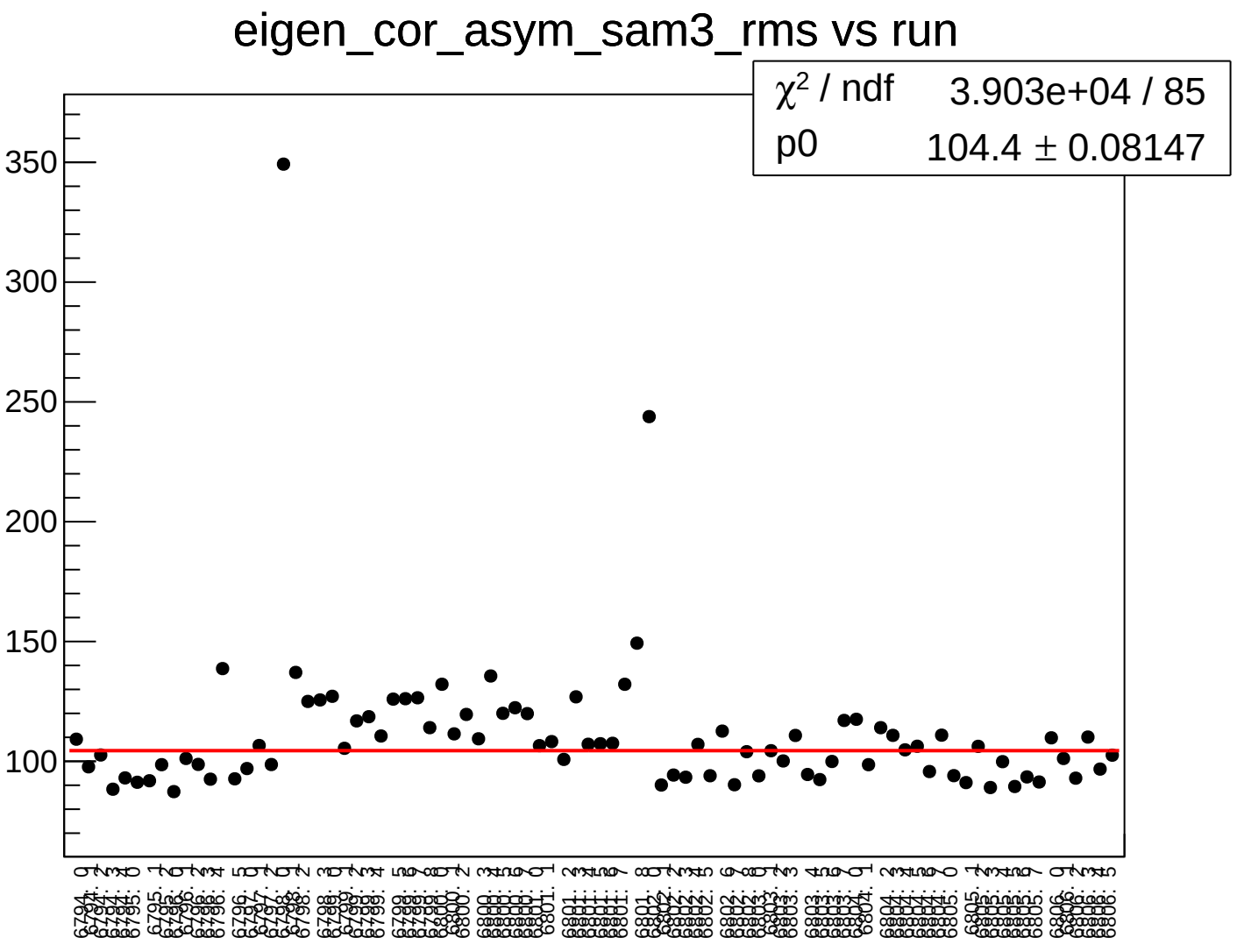

asym_sam3_cor_correction_mean vs run
χ² / ndf 87.92 / 85
p0 −635.7 ± 1185
pull
Entries 86
Mean −46.5
Std Dev 0

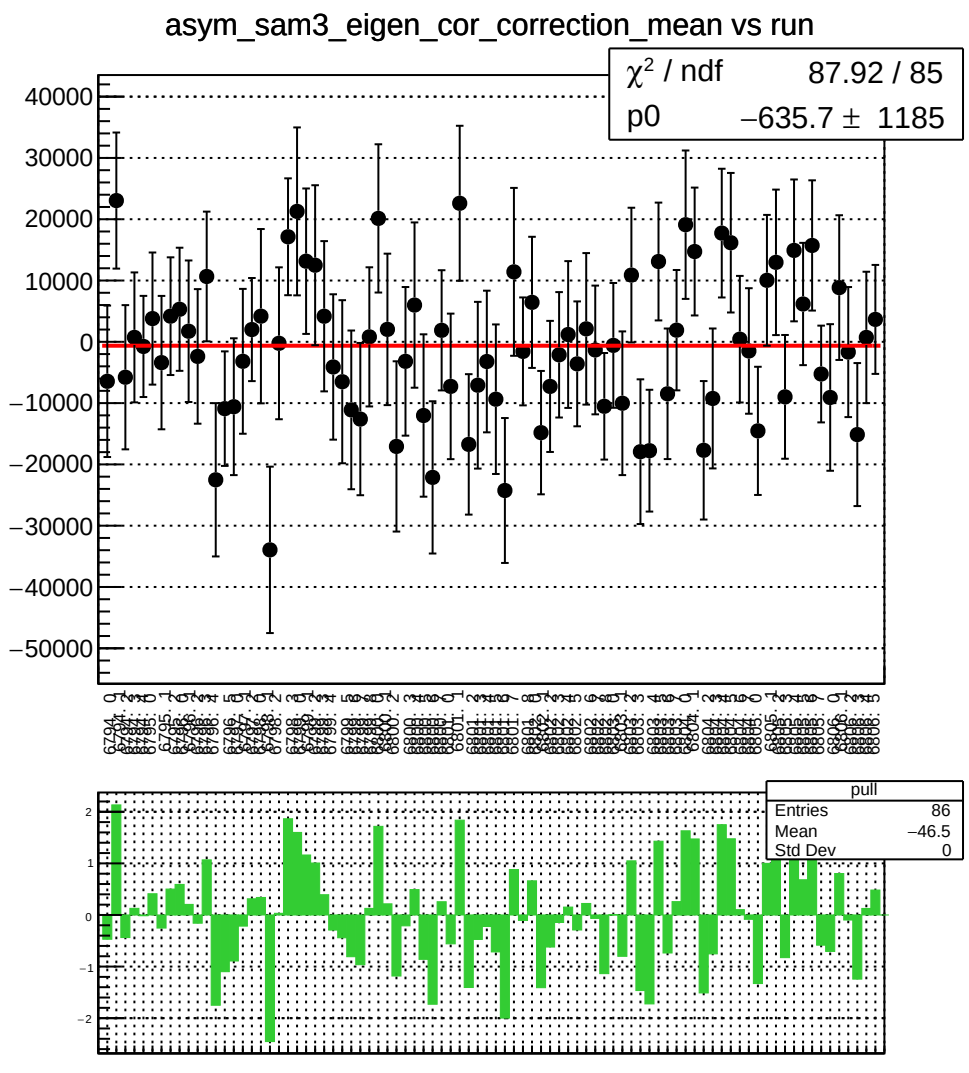

pull1D
Entries 86
Mean −0.007361
Std Dev 1.011

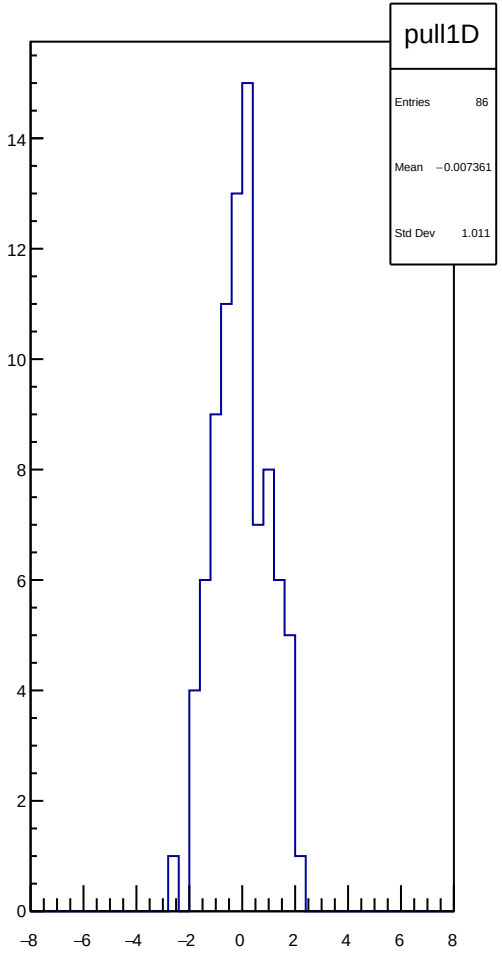

asym_sam3_cor_correction_rms vs run
χ² / ndf 1.271e+04 / 85
p0 1083 ± 0.8383
1400
1300
1200
1100
1000
900

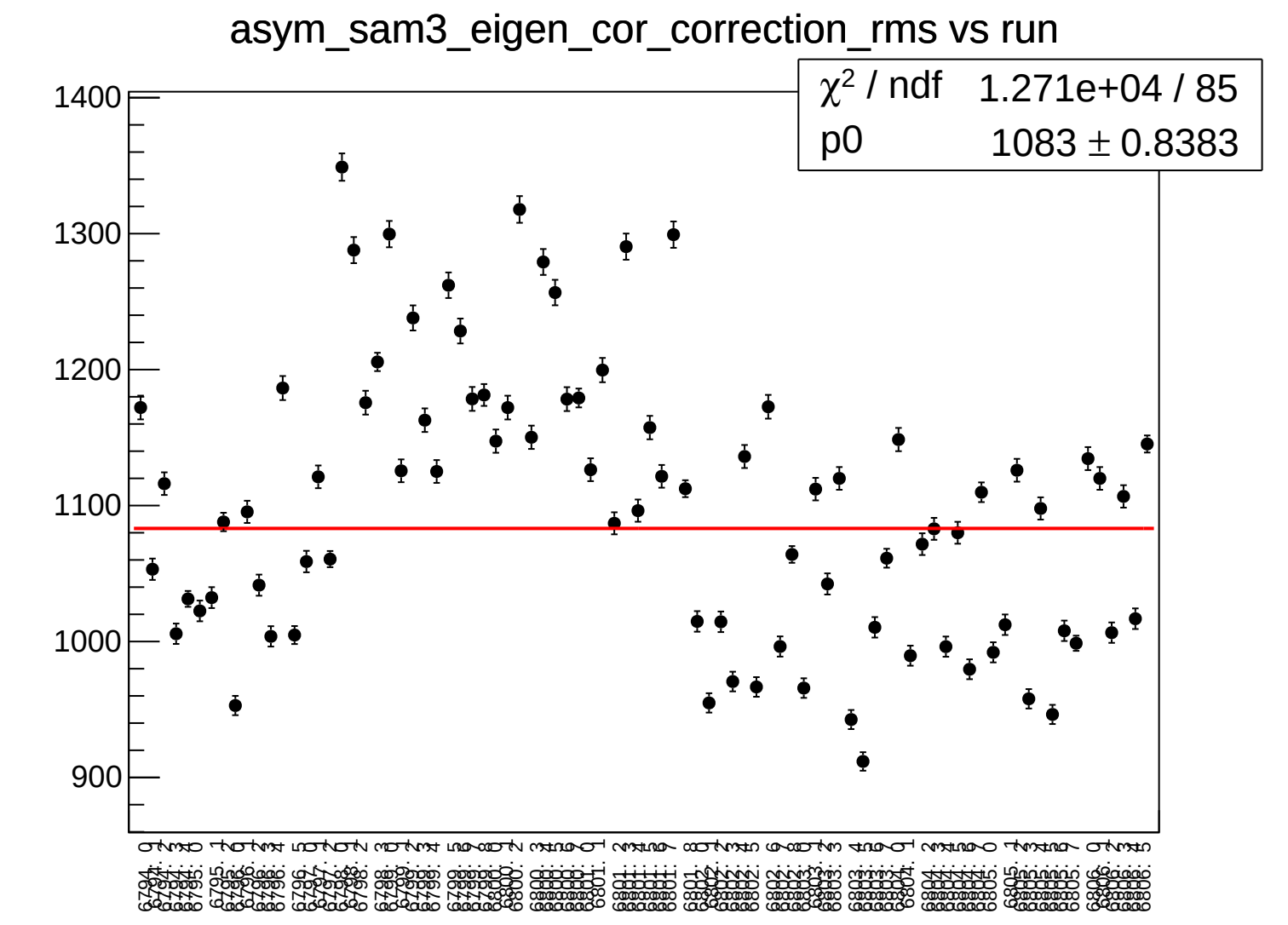

eigen_cor_asym_sam3_mean vs run
χ² / ndf 73.12 / 85
p0 −176.8 ± 115.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −1282
Std Dev 0
2
1
0
−1
−2
−3

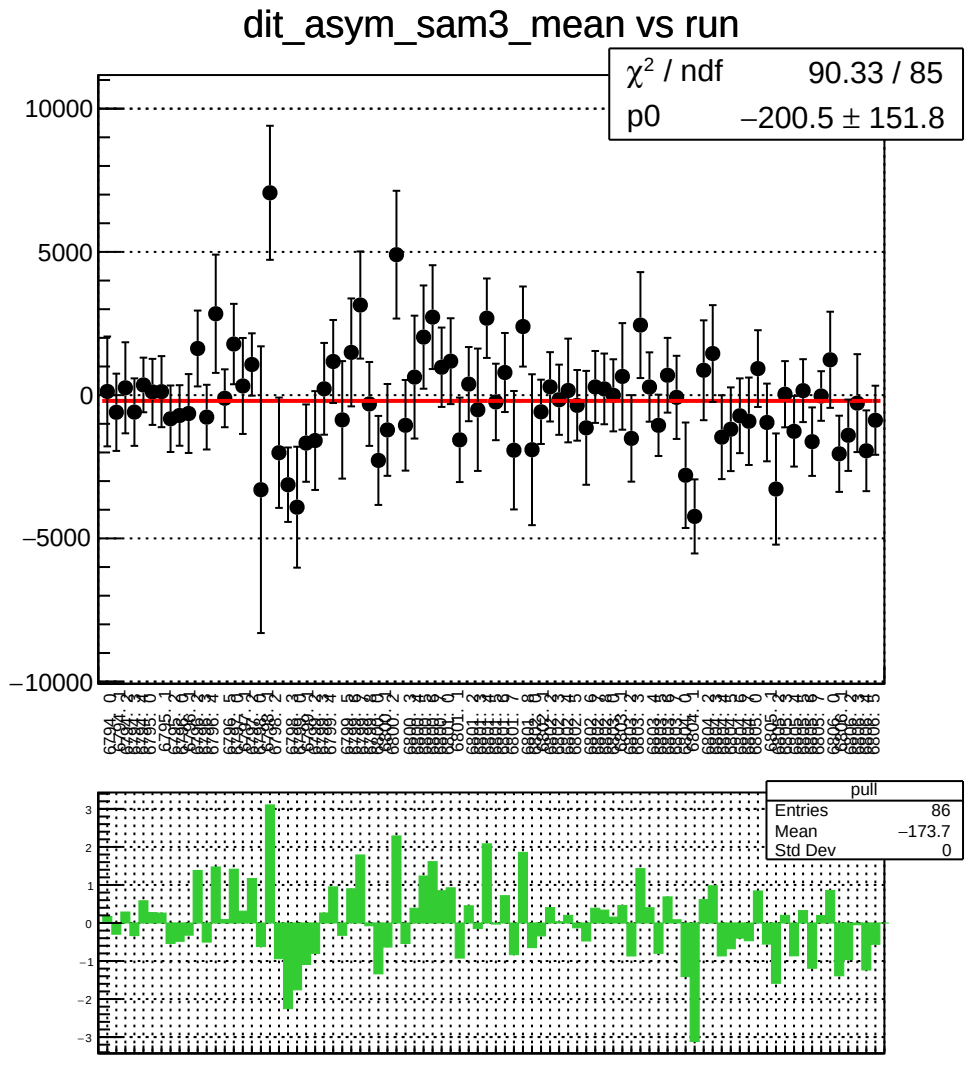

pull1D
Entries 86
Mean 0.005226
Std Dev 0.9221
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

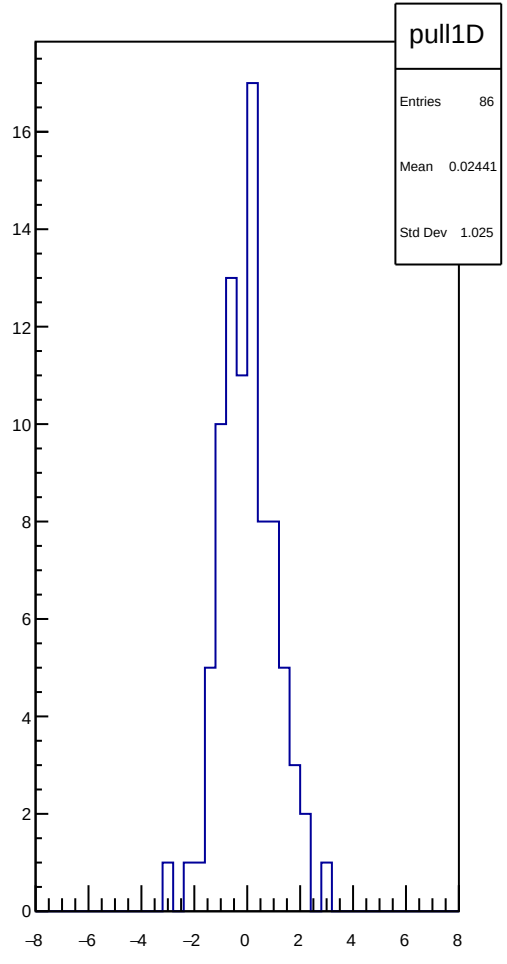

eigen_cor_asym_sam3_rms vs run
χ^2 / ndf 3.903e+04 / 85
p0 104.4 ± 0.08147
350
300
250
200
150
100

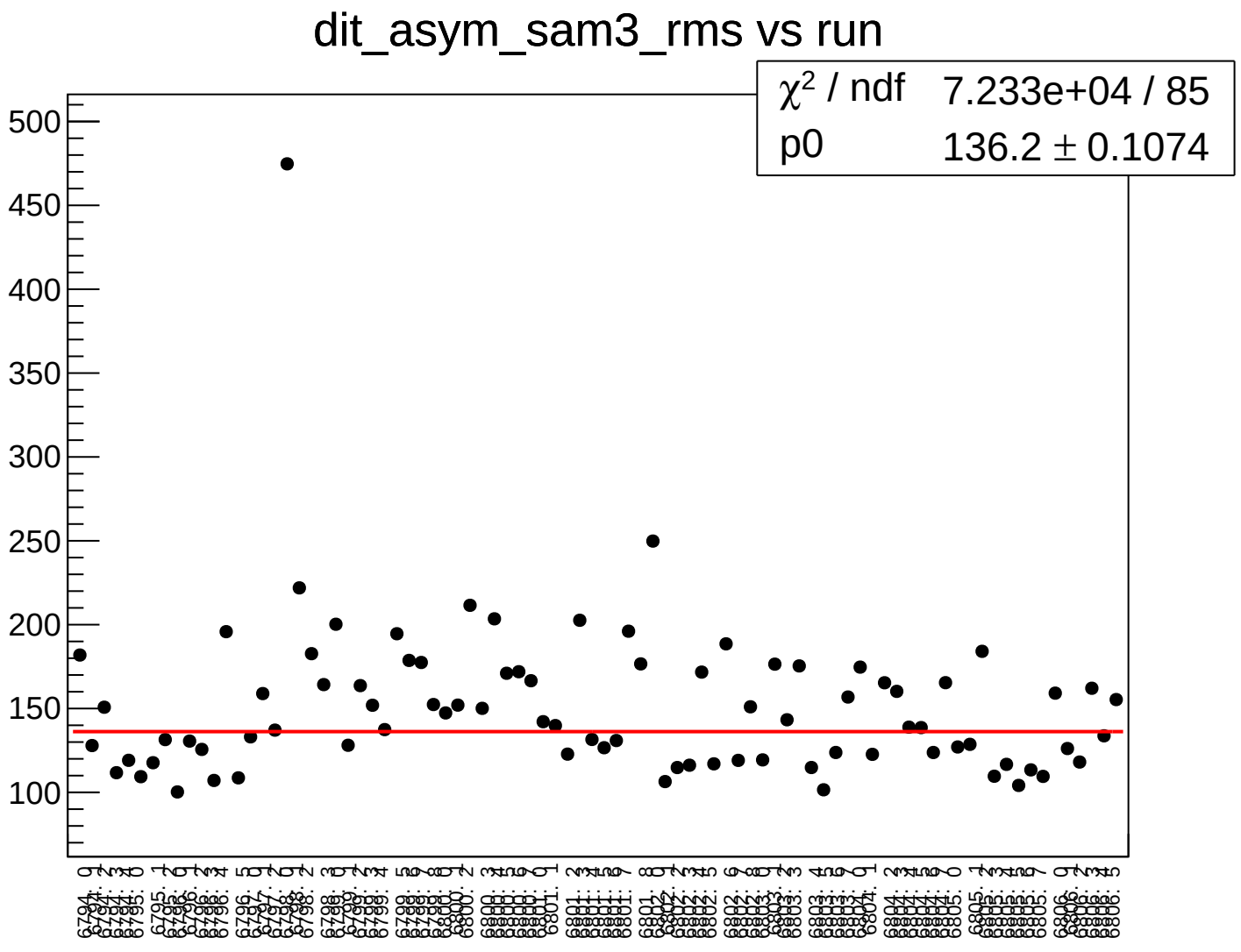

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 87.92 / 85
p0 −635.7 ± 1185
pull
Entries 86
Mean −46.5
Std Dev 0

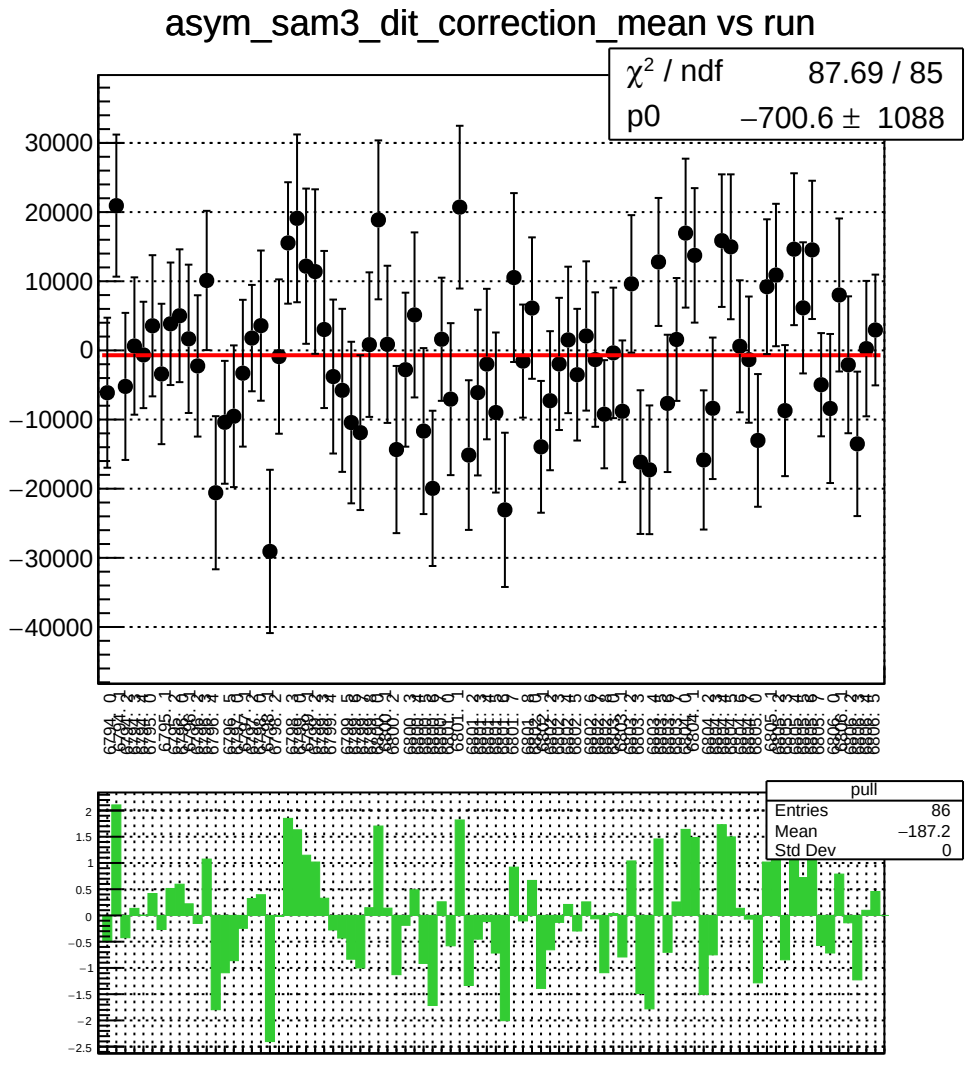

pull1D
Entries 86
Mean −0.007361
Std Dev 1.011

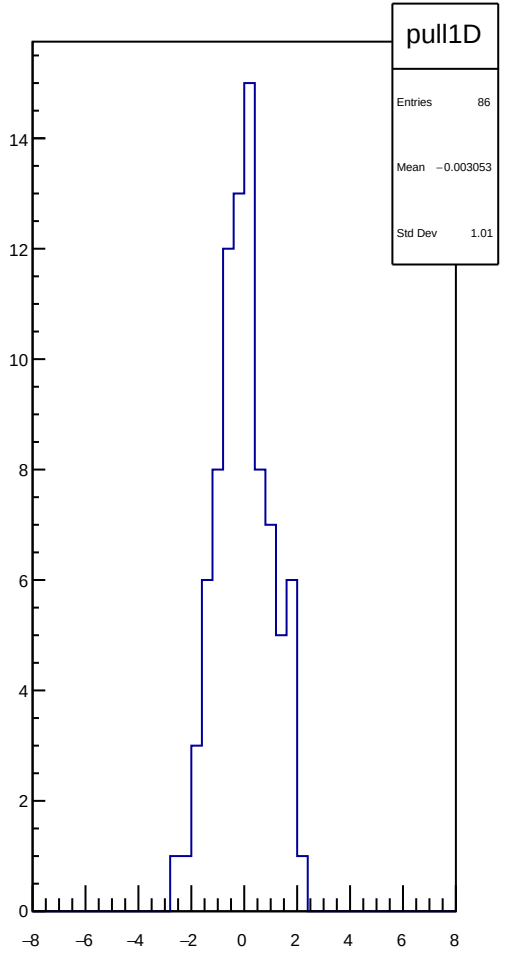

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 1.271e+04 / 85
p0 1083 ± 0.8383
1400
1300
1200
1100
1000
900

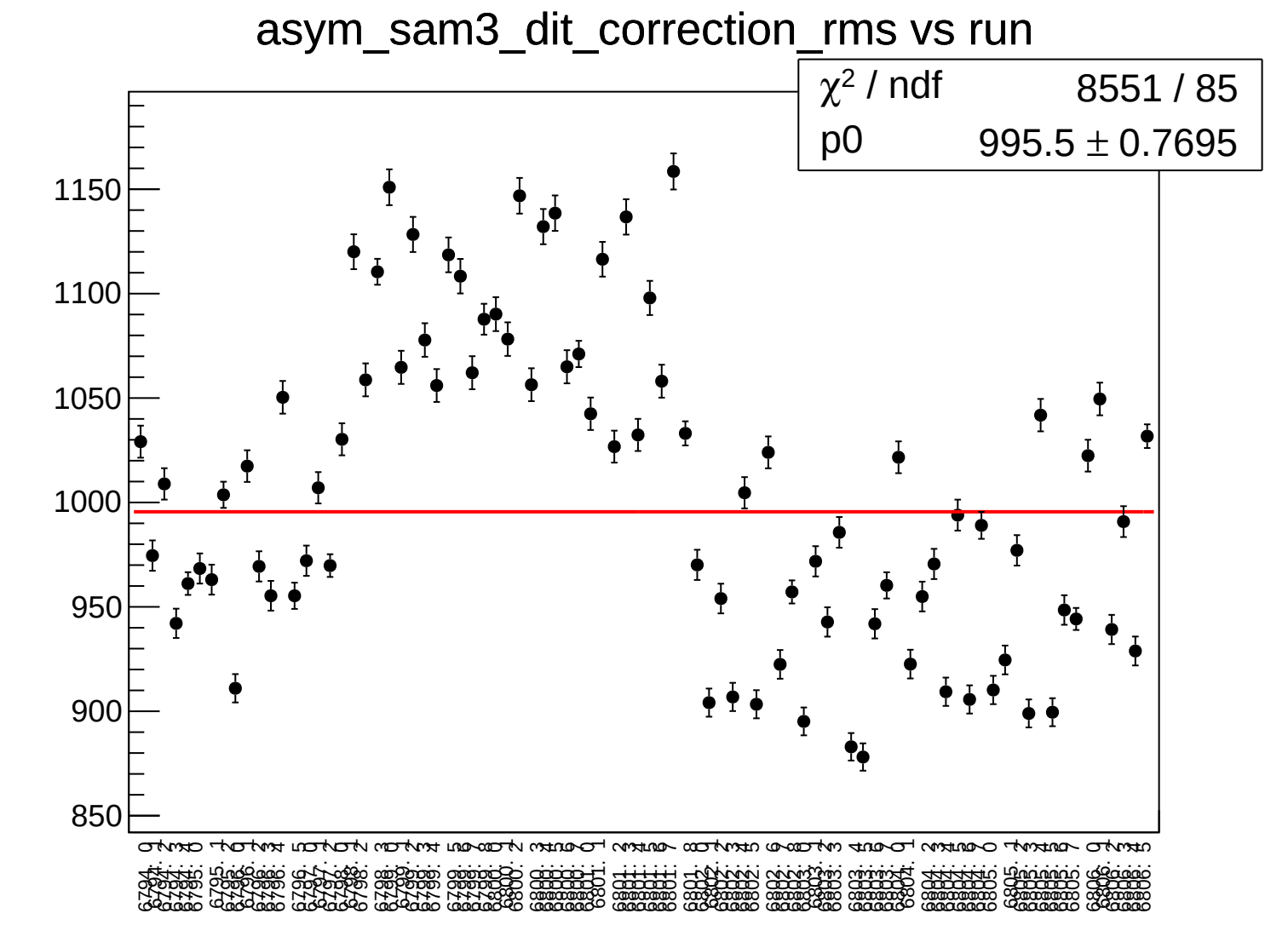

dit_asym_sam3_mean vs run
χ² / ndf 90.33 / 85
p0 −200.5 ± 151.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −173.7
Std Dev 0
3
2
1
0
−1
−2
−3

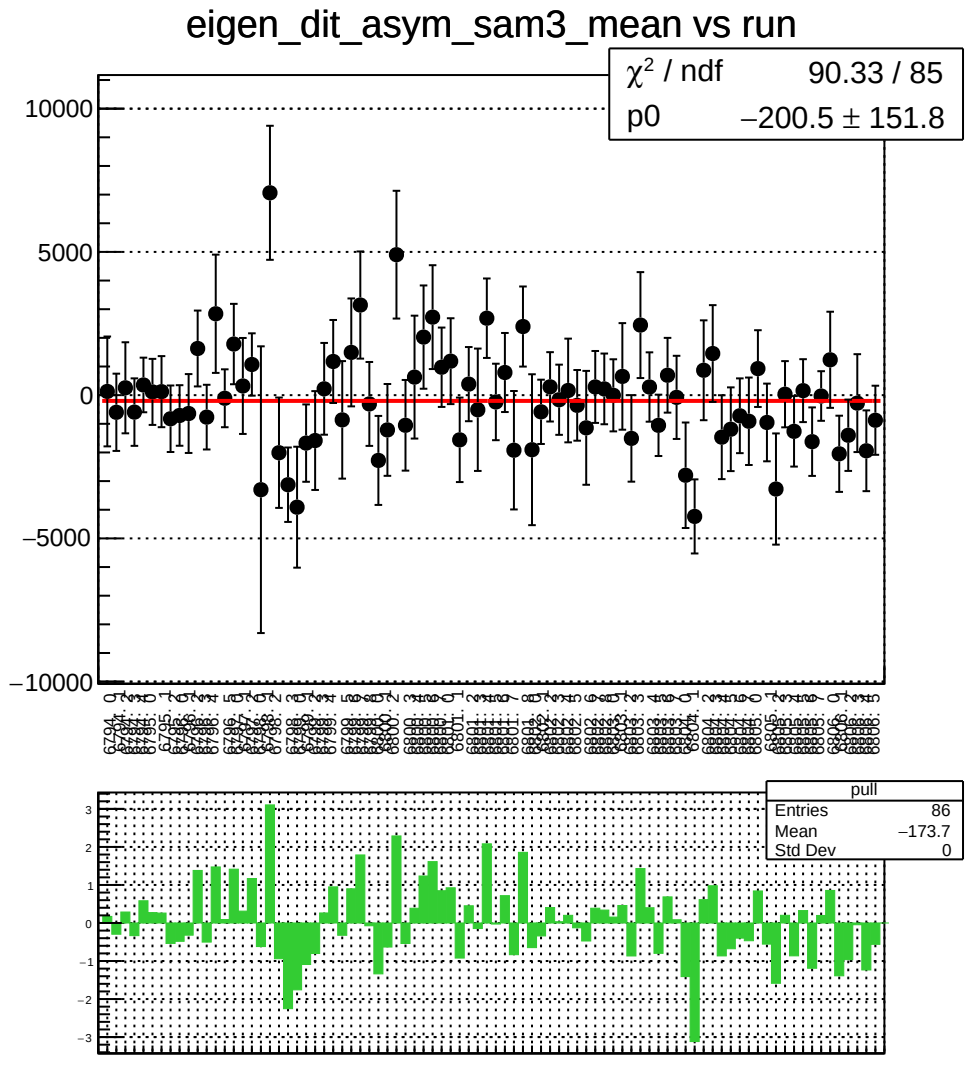

pull1D
Entries 86
Mean 0.02441
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

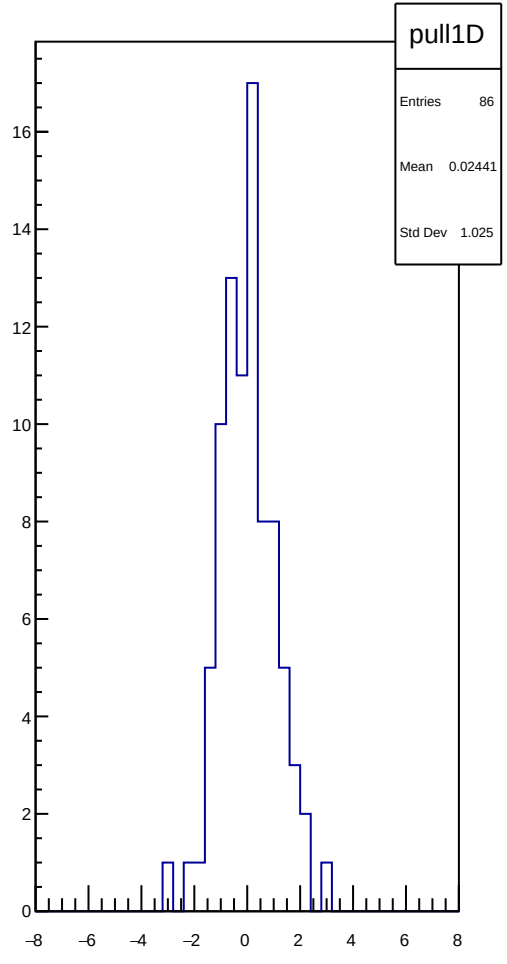

dit_asym_sam3_rms vs run
χ² / ndf 7.233e+04 / 85
p0 136.2 ± 0.1074
500
450
400
350
300
250
200
150
100

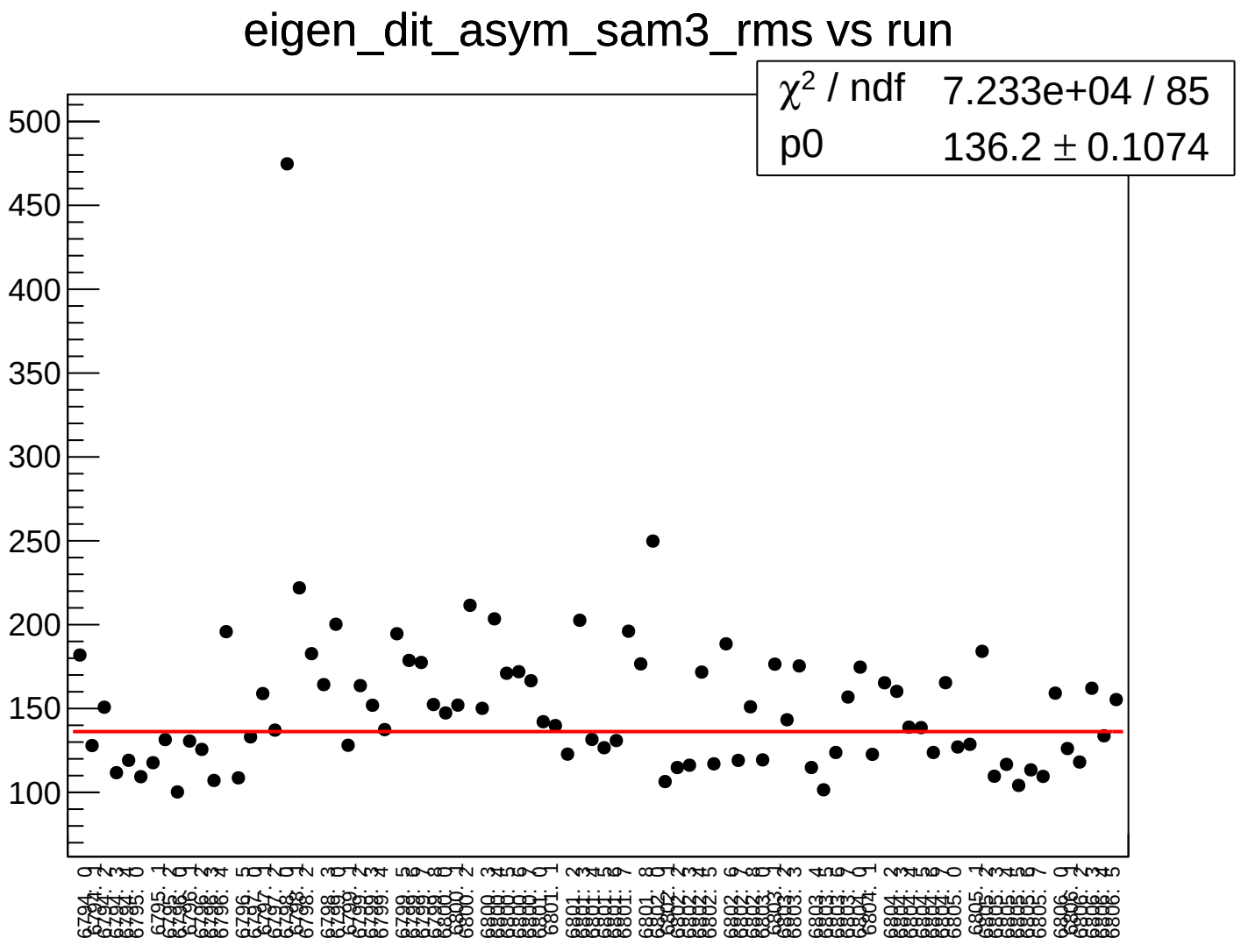

asym_sam3_dit_correction_mean vs run
χ² / ndf 87.69 / 85
p0 −700.6 ± 1088
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 86
Mean −187.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

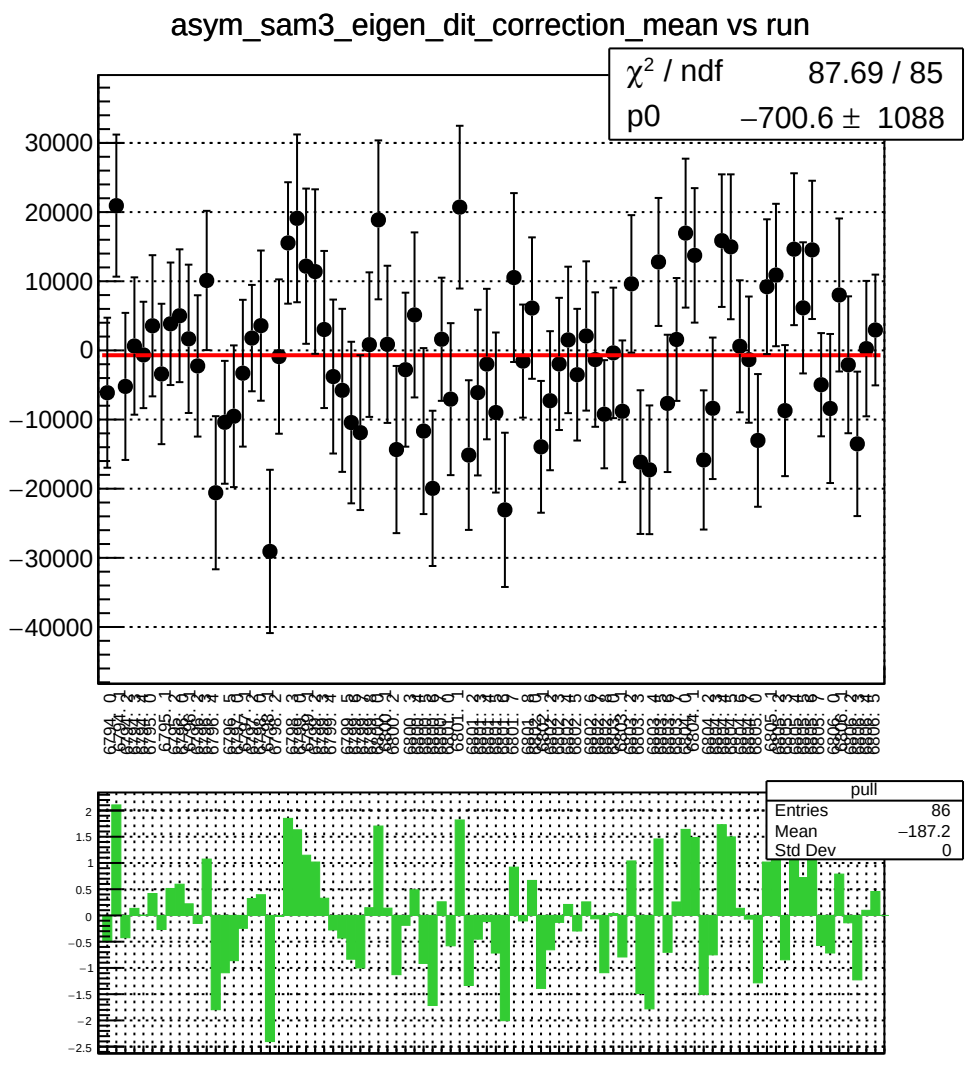

pull1D
Entries 86
Mean −0.003053
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

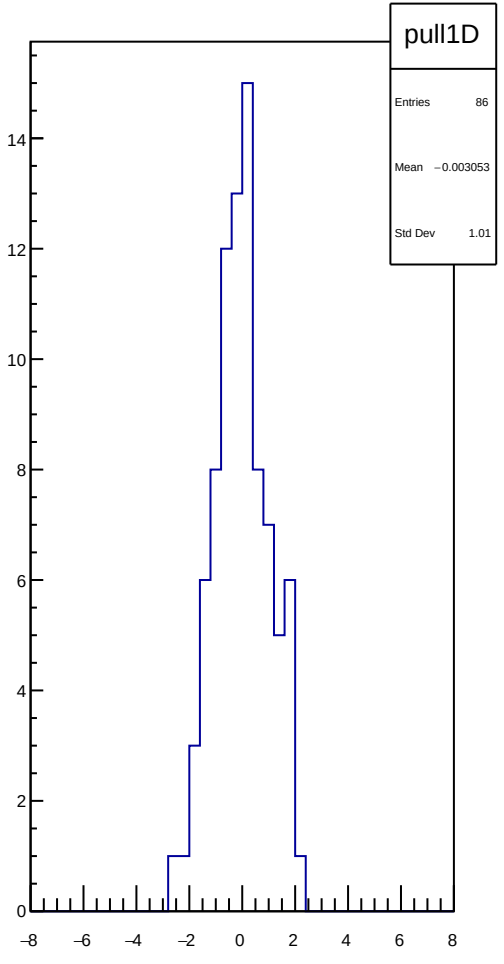

asym_sam3_dit_correction_rms vs run
χ² / ndf 8551 / 85
p0 995.5 ± 0.7695
1150
1100
1050
1000
950
900
850

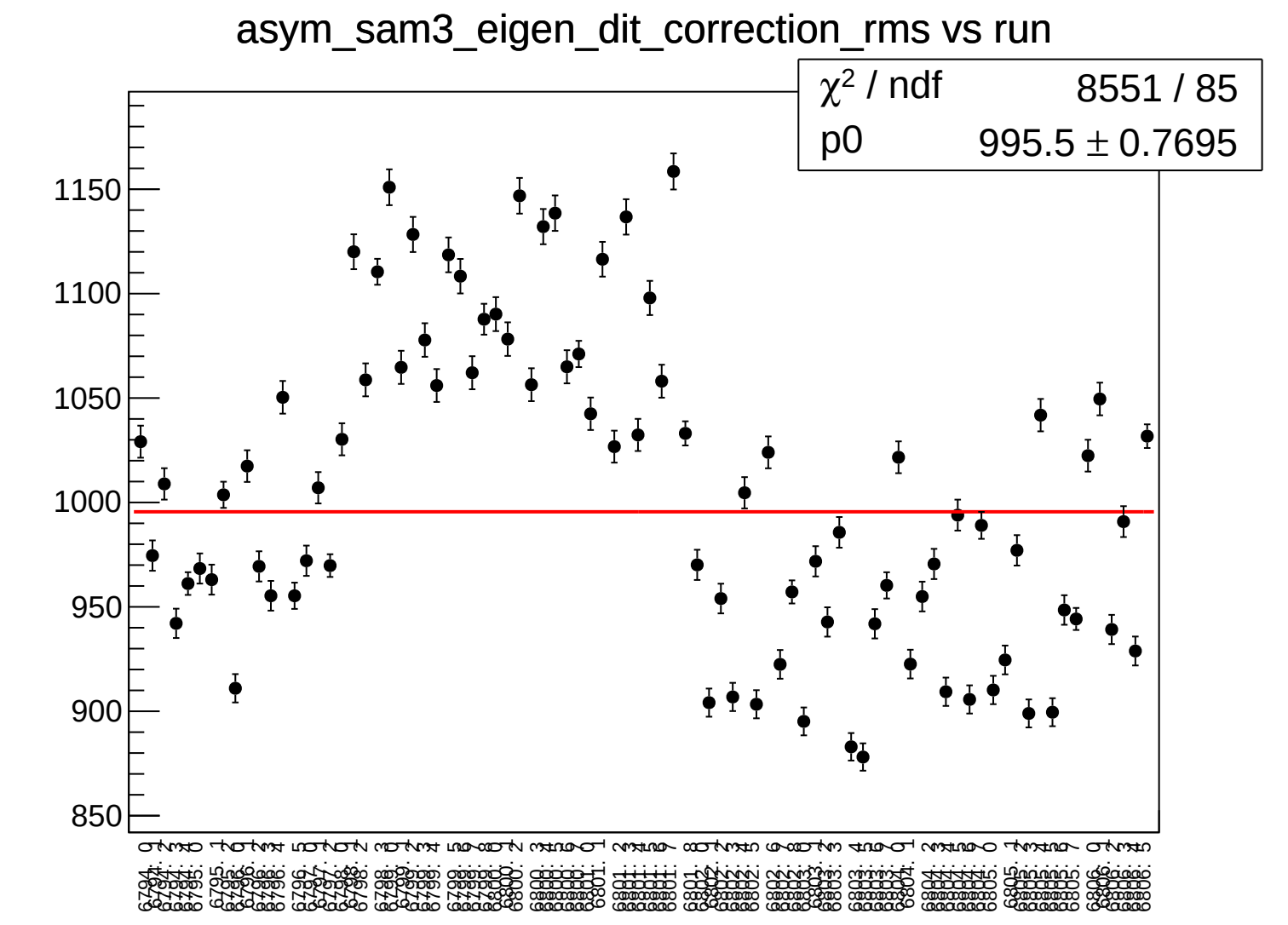

eigen_dit_asym_sam3_mean vs run
χ² / ndf 90.33 / 85
p0 −200.5 ± 151.8
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −173.7
Std Dev 0
3
2
1
0
−1
−2
−3

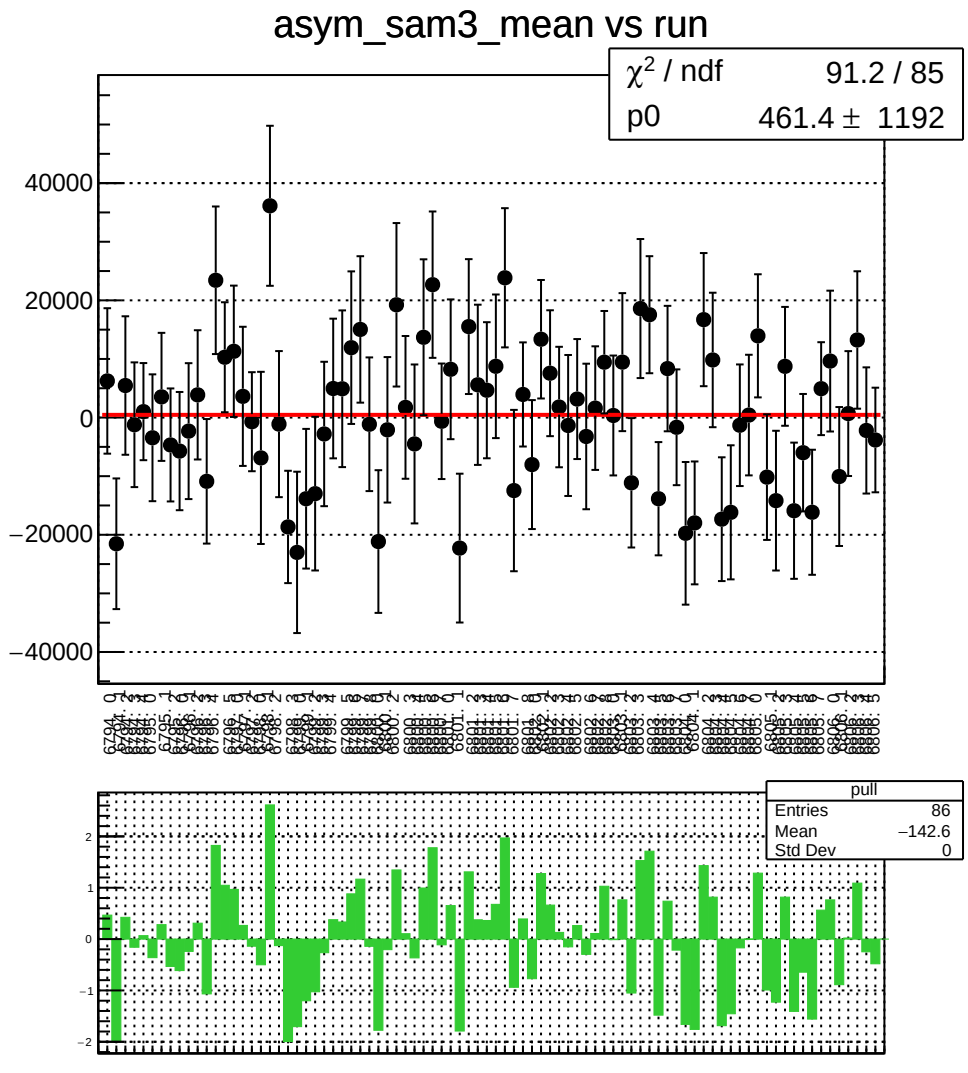

pull1D
Entries 86
Mean 0.02441
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

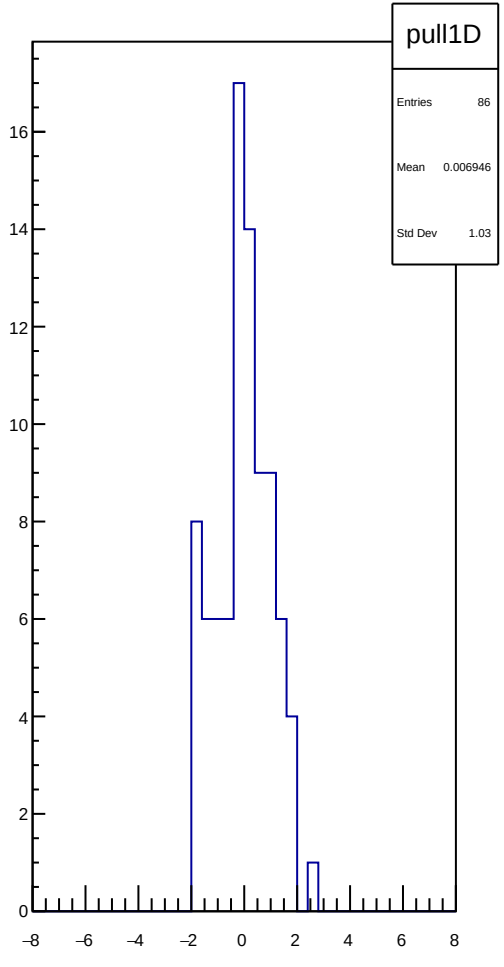

eigen_dit_asym_sam3_rms vs run
χ² / ndf 7.233e+04 / 85
p0 136.2 ± 0.1074
500
450
400
350
300
250
200
150
100

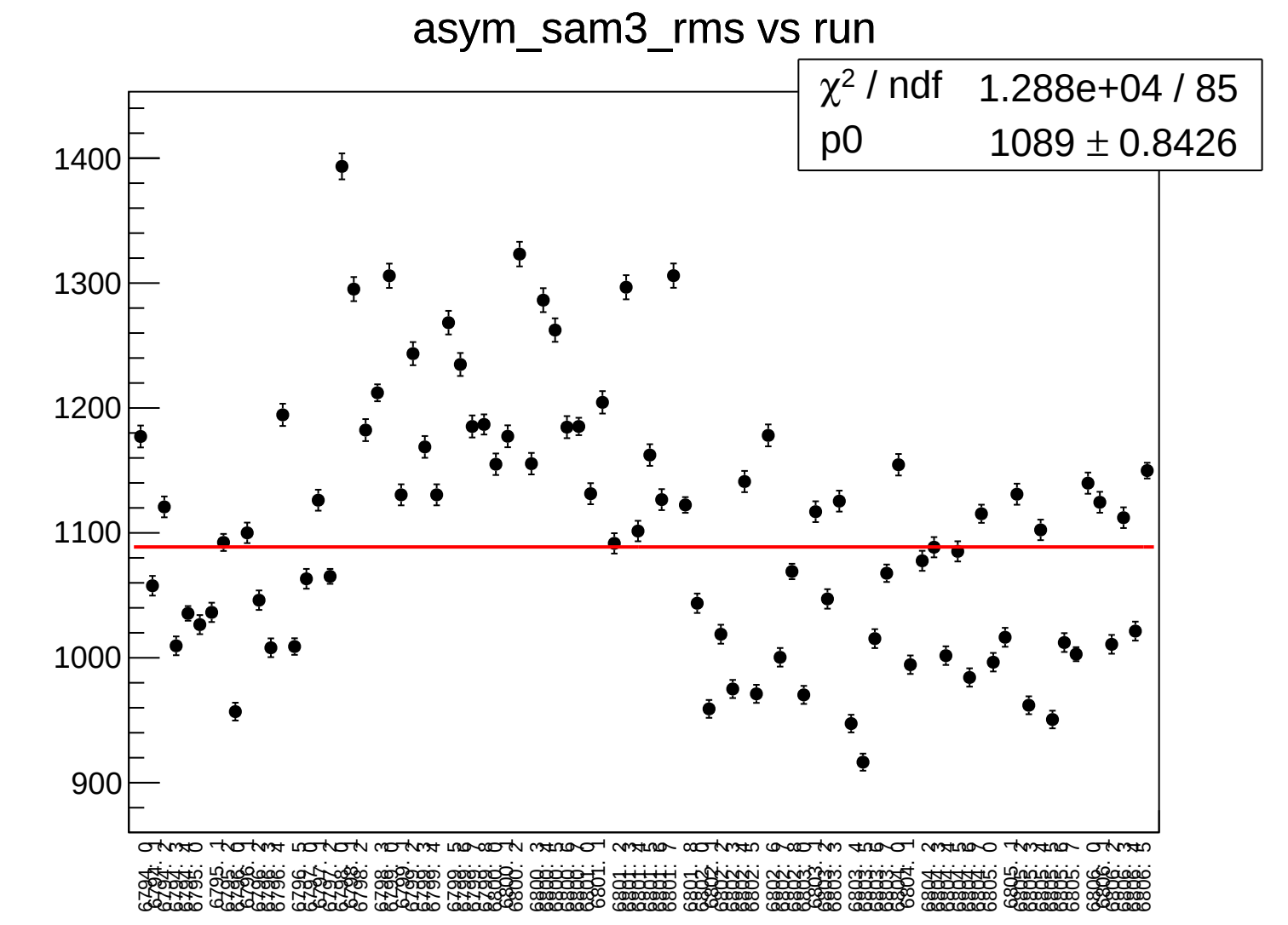

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 87.69 / 85
p0 −700.6 ± 1088
pull
Entries 86
Mean −187.2
Std Dev 0

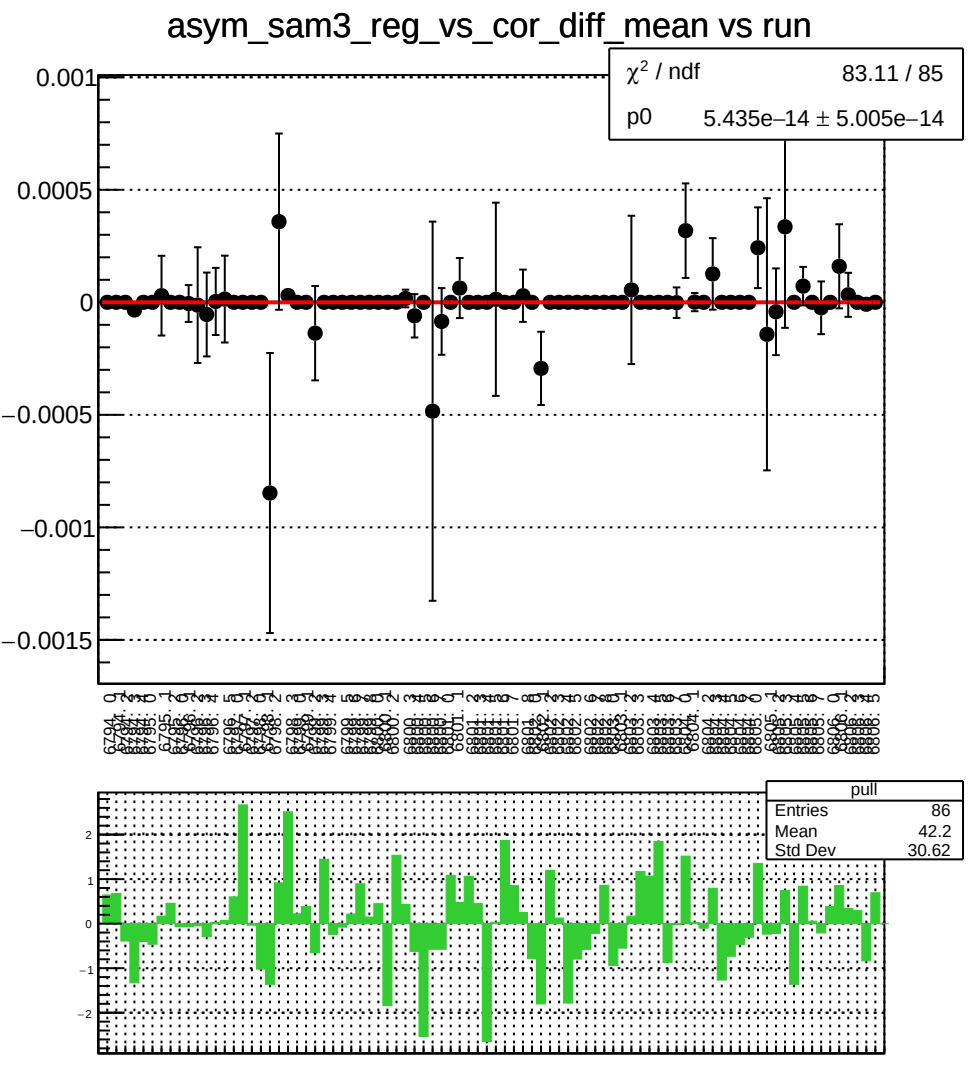

pull1D
Entries 86
Mean −0.003053
Std Dev 1.01

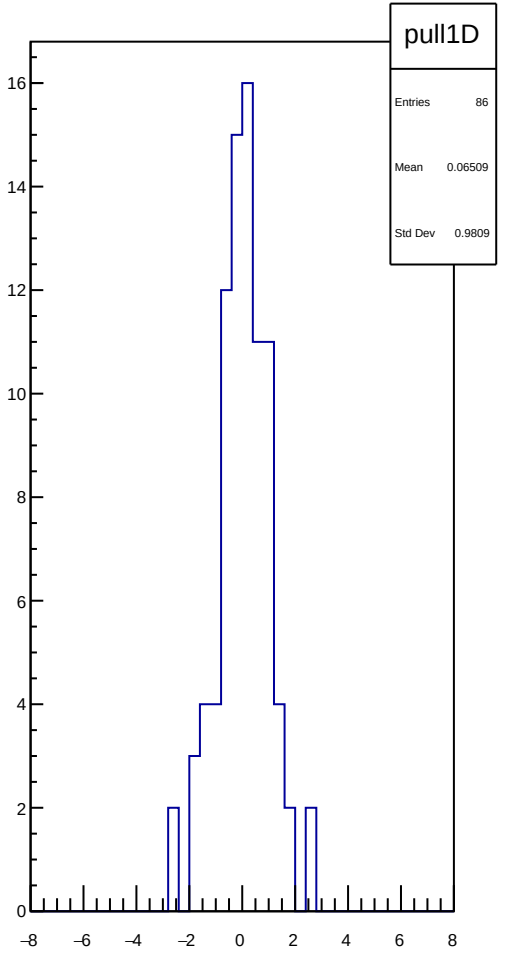

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 8551 / 85
p0 995.5 ± 0.7695
1150
1100
1050
1000
950
900
850

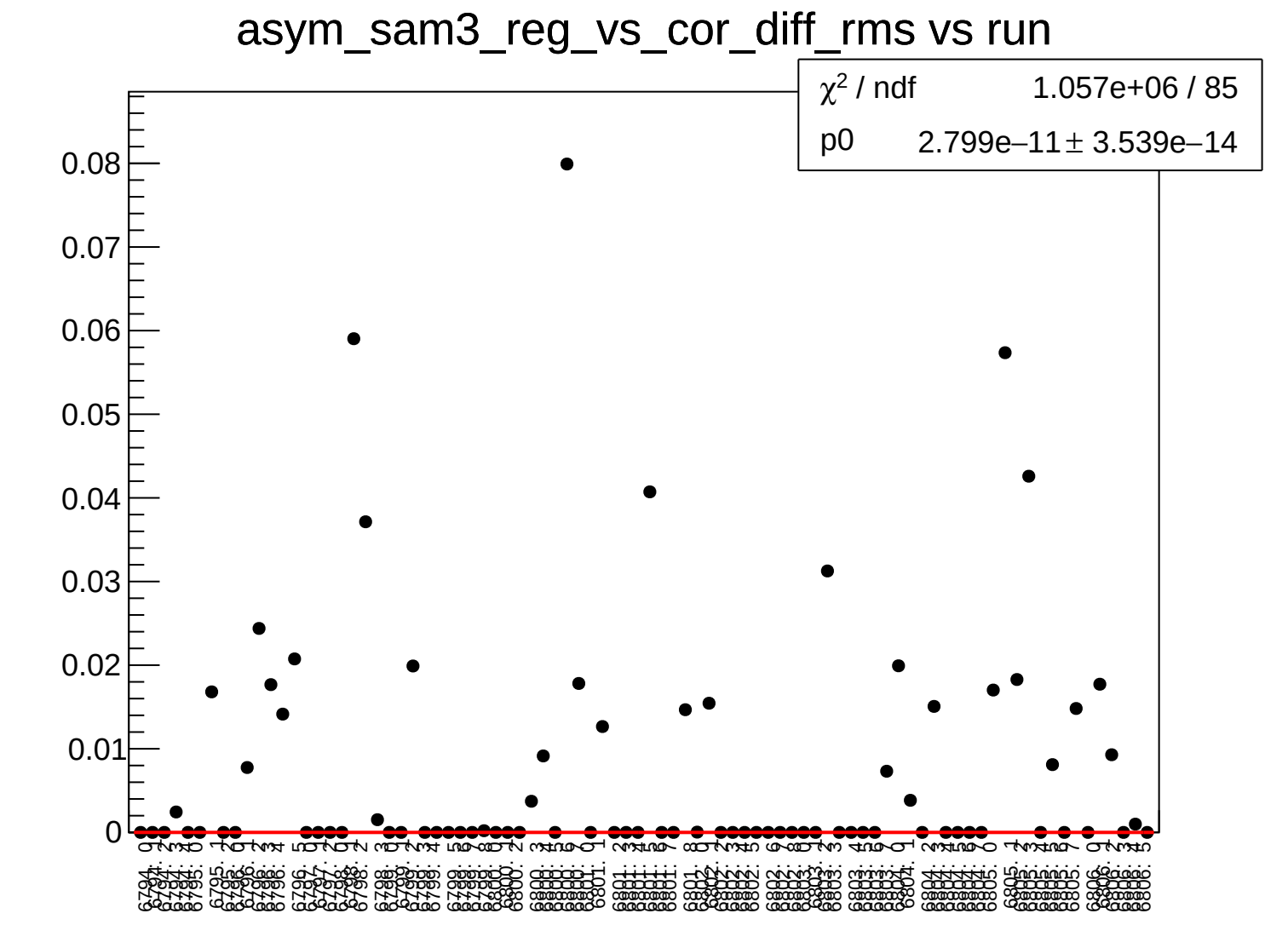

asym_sam3_mean vs run
χ² / ndf 91.2 / 85
p0 461.4 ± 1192
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −142.6
Std Dev 0
2
1
0
−1
−2

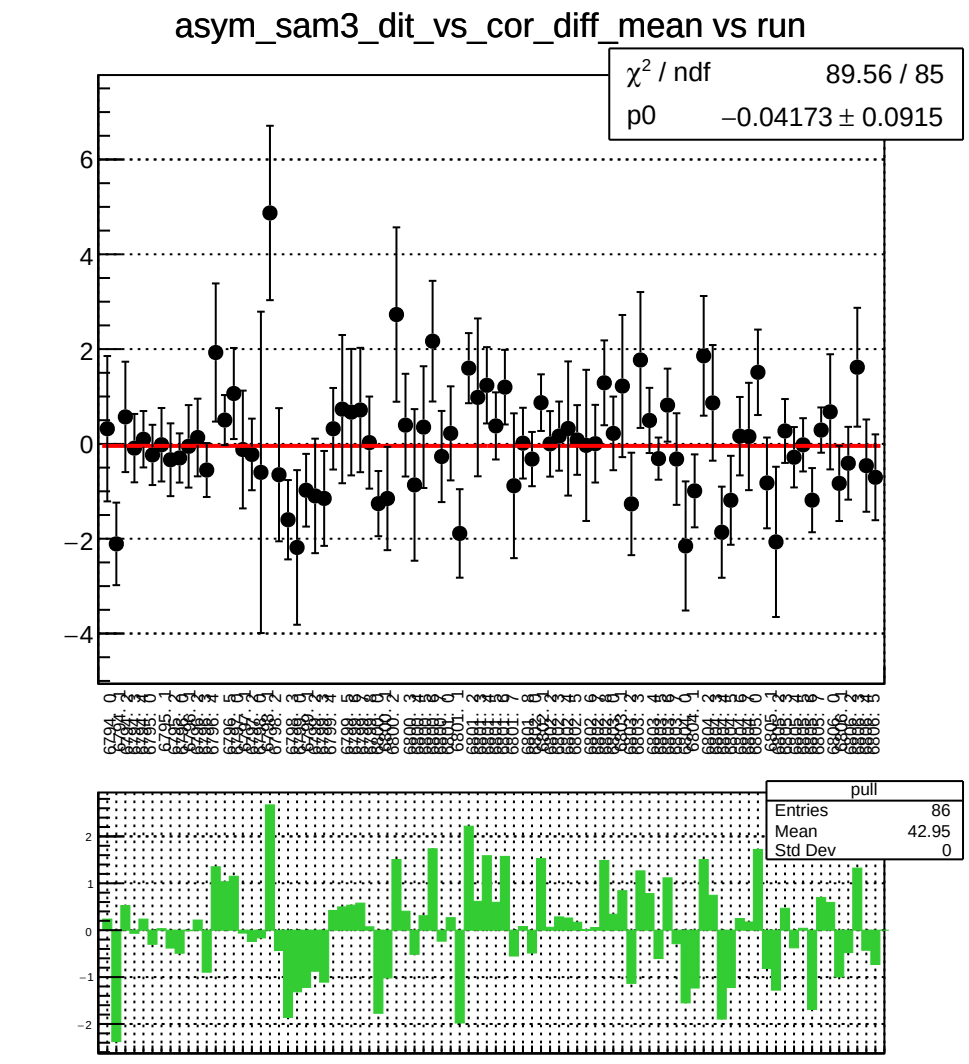

pull1D
Entries 86
Mean 0.006946
Std Dev 1.03
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

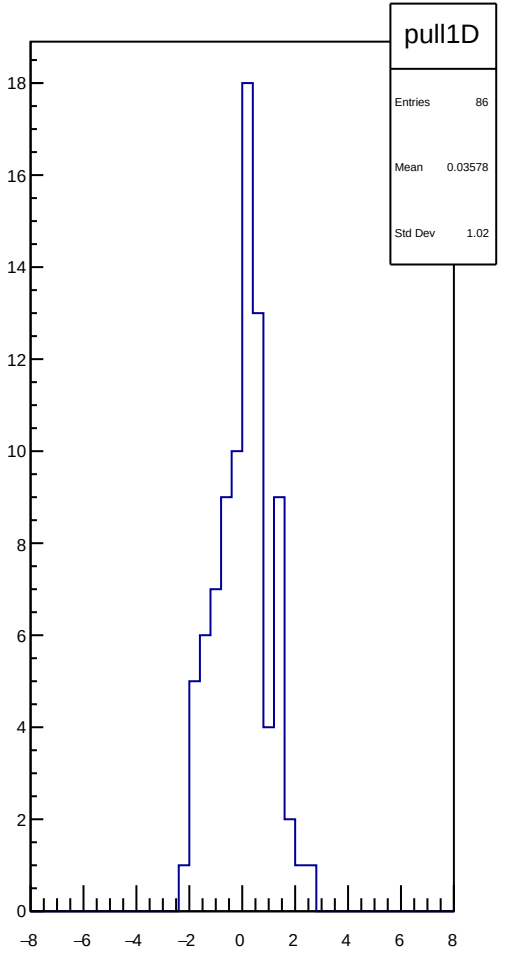

asym_sam3_rms vs run
χ² / ndf 1.288e+04 / 85
p0 1089 ± 0.8426
1400
1300
1200
1100
1000
900

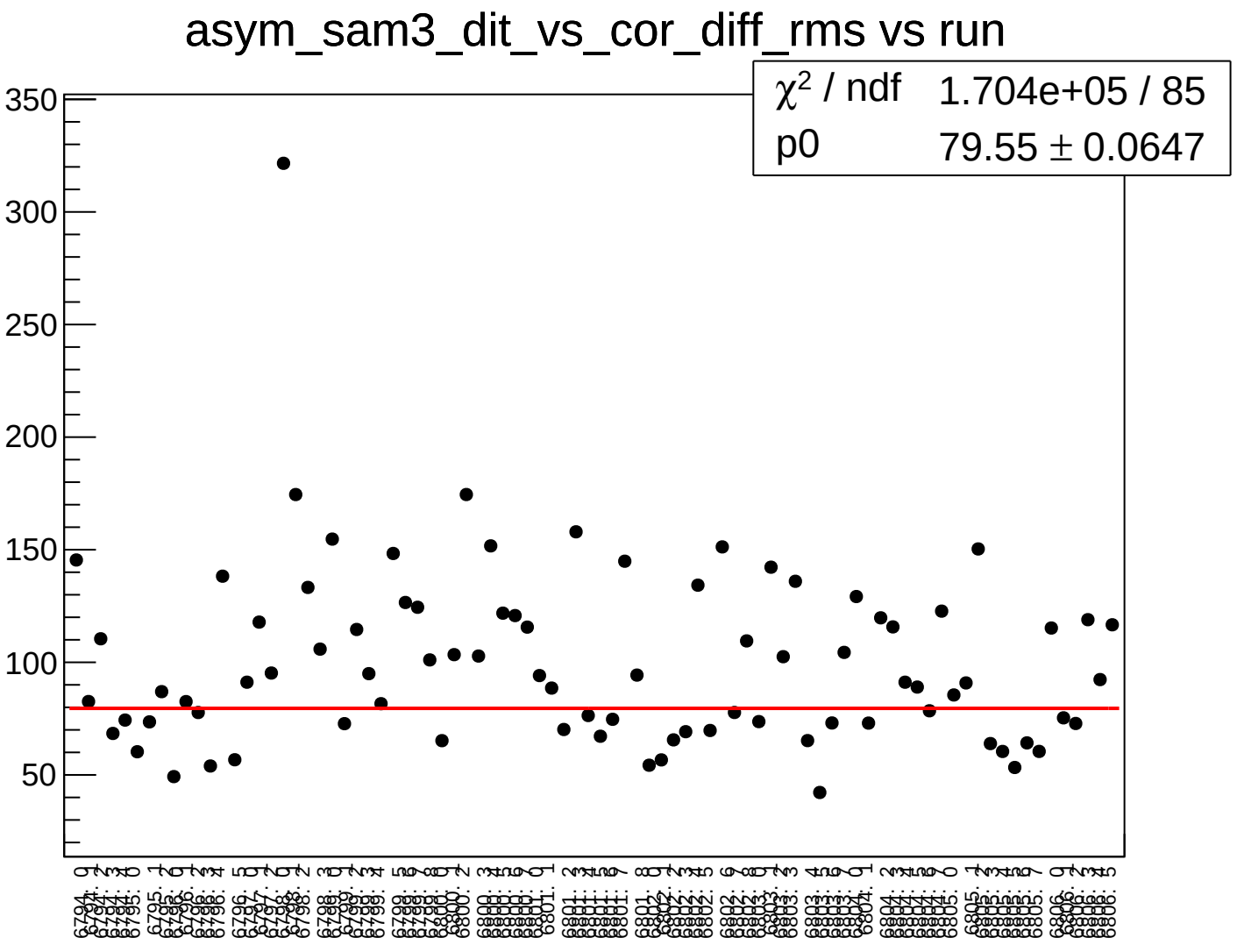

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 83.11 / 85
p0 5.435e−14 ± 5.005e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 42.2
Std Dev 30.62
2
1
0
−1
−2

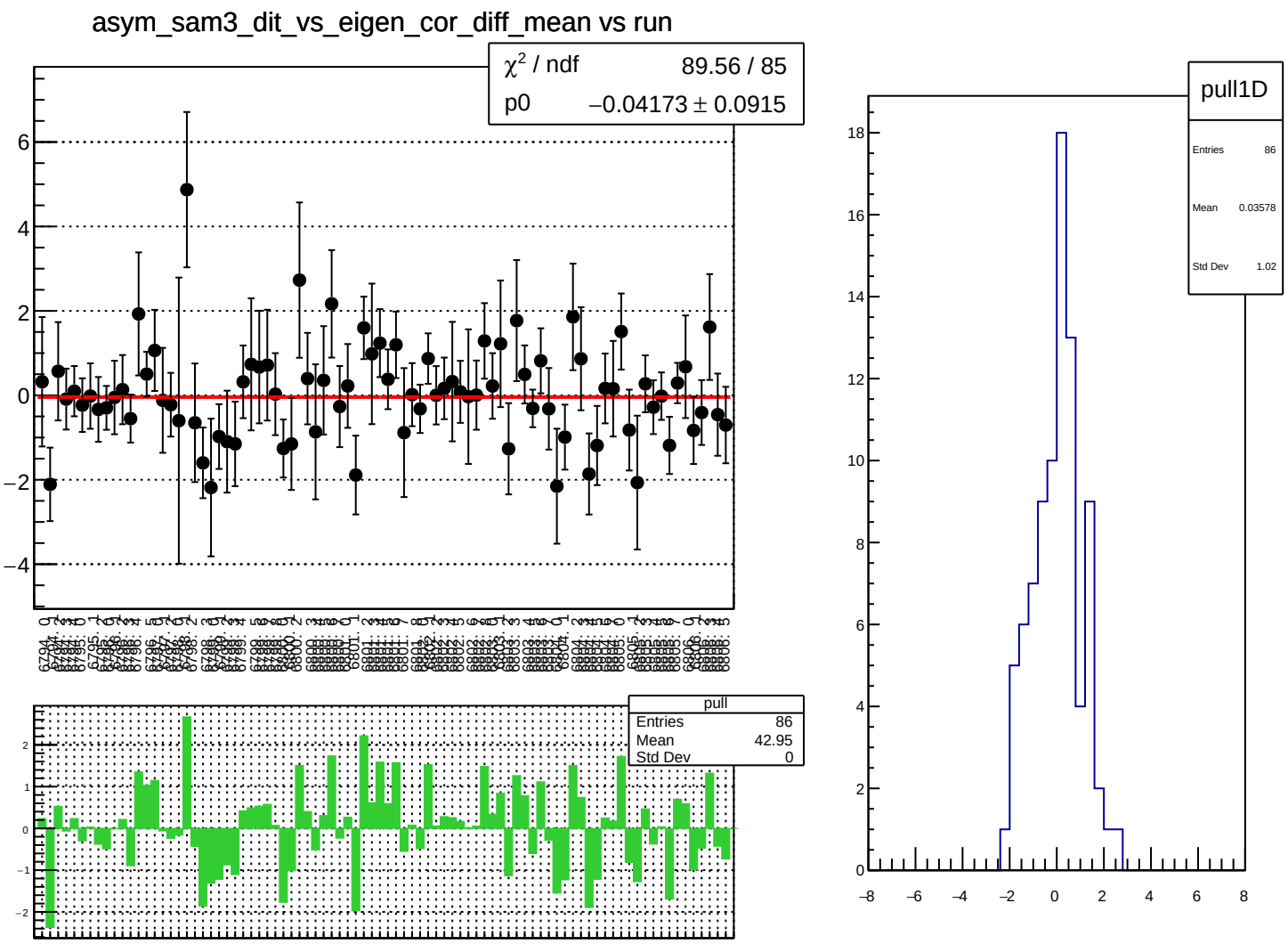

pull1D
Entries 86
Mean 0.06509
Std Dev 0.9809
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

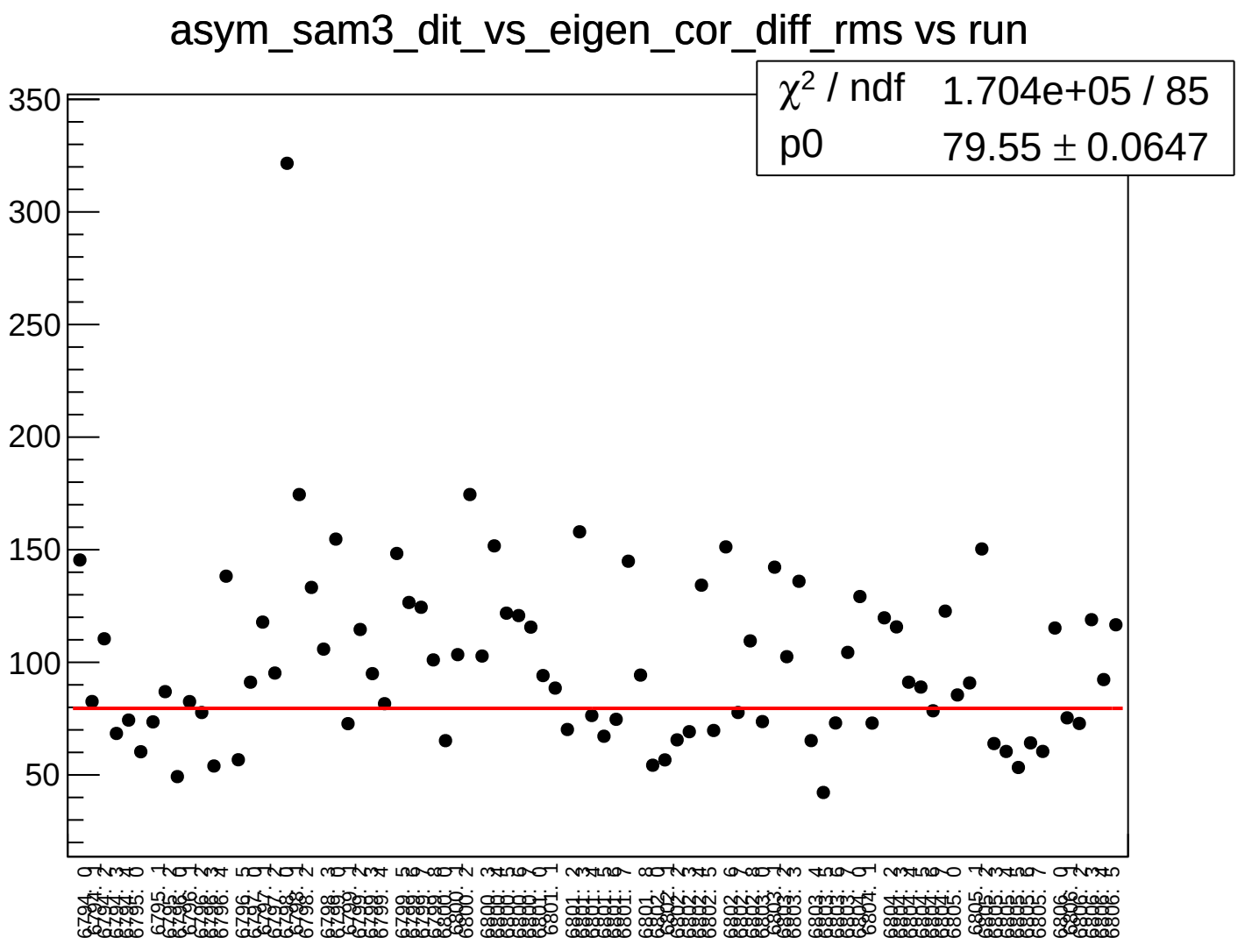

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 85
p0 2.799e−11 ± 3.539e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

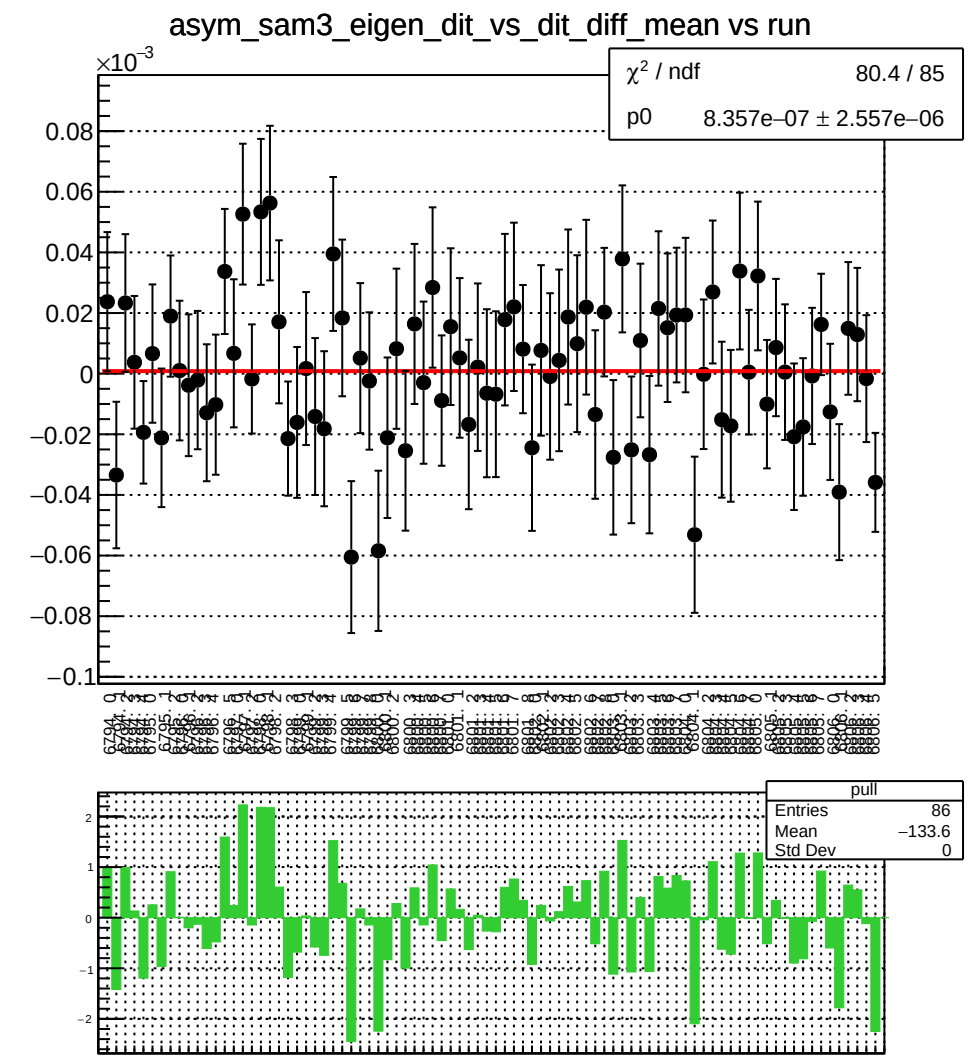

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 85
p0 −0.04173 ± 0.0915
pull
Entries 86
Mean 42.95
Std Dev 0

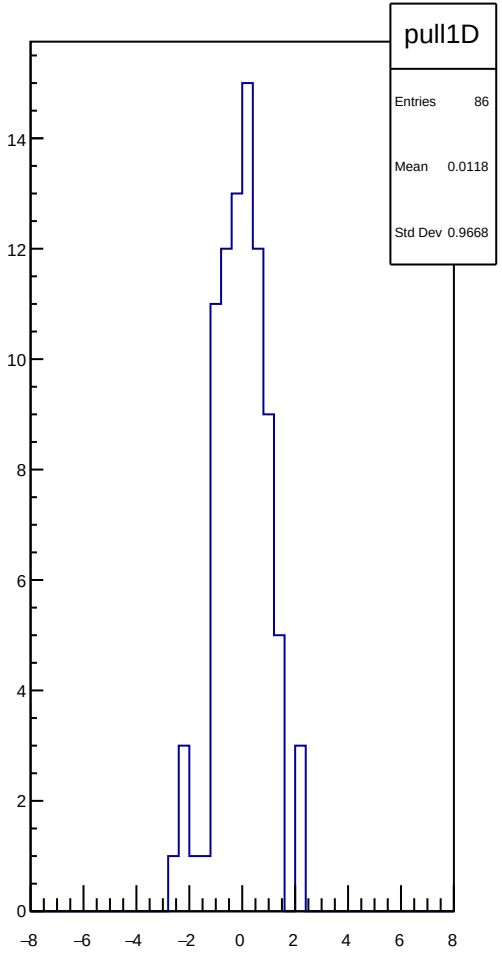

pull1D
Entries 86
Mean 0.03578
Std Dev 1.02

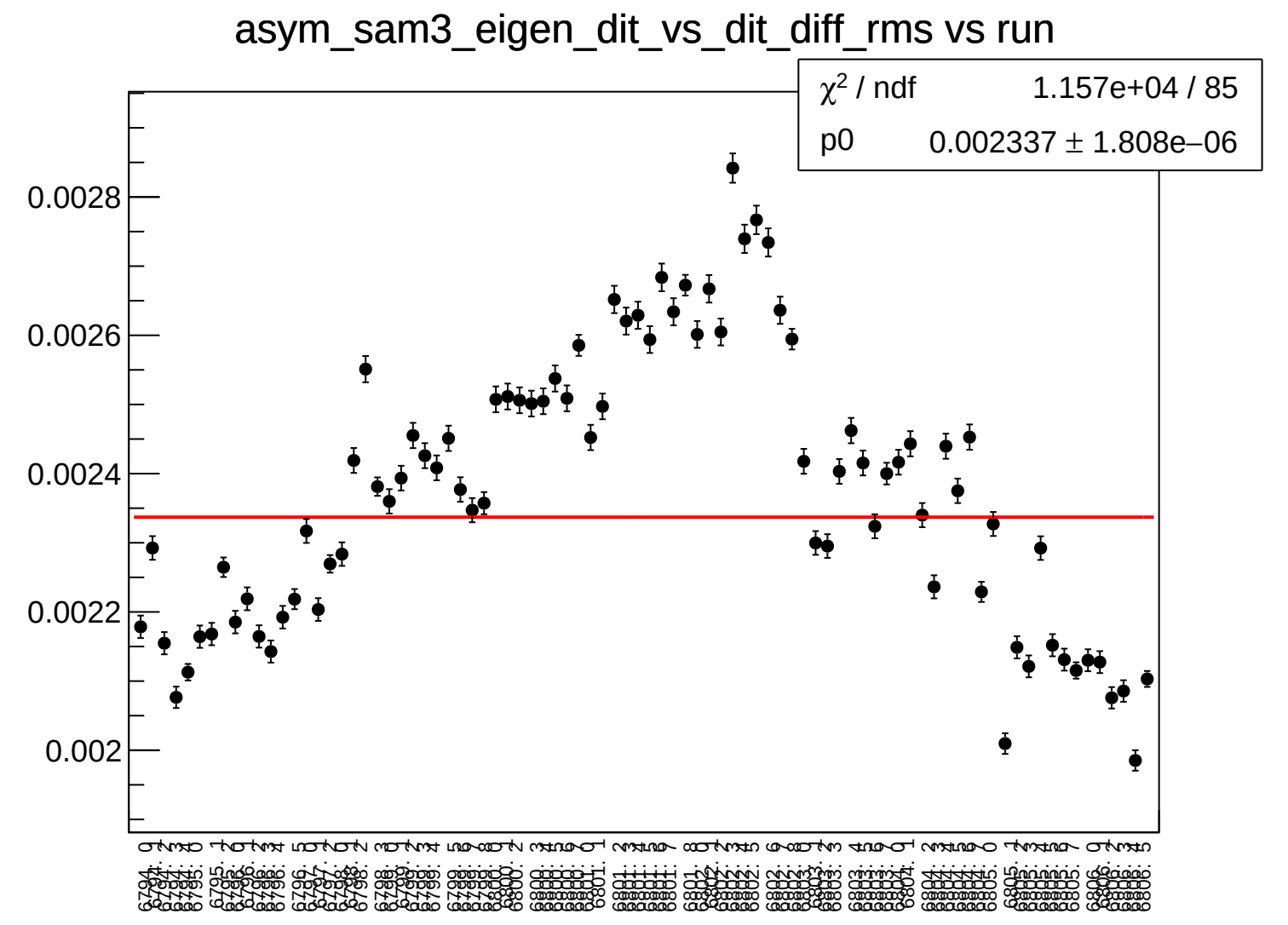

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 85
p0 79.55 ± 0.0647
350
300
250
200
150
100
50

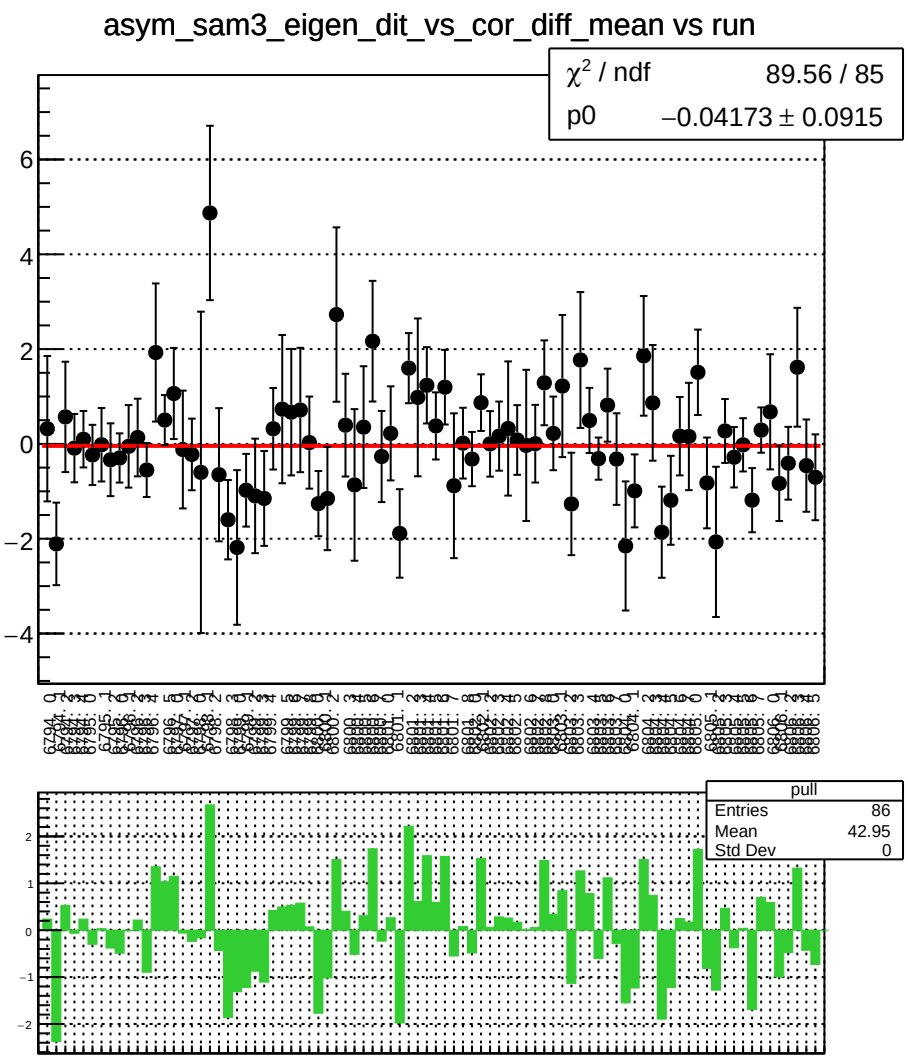

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 85
p0 −0.04173 ± 0.0915
pull
Entries 86
Mean 42.95
Std Dev 0
pull1D
Entries 86
Mean 0.03578
Std Dev 1.02

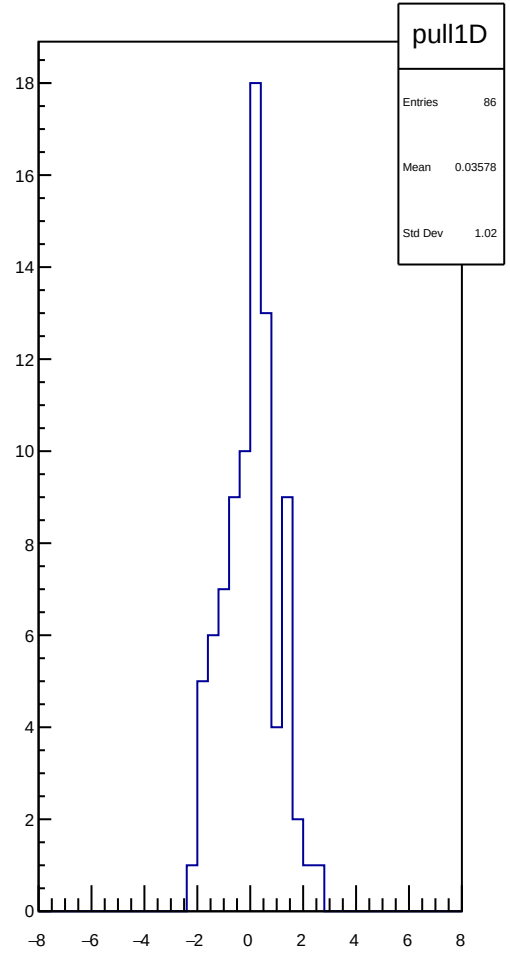

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 85
p0 79.55 ± 0.0647
350
300
250
200
150
100
50

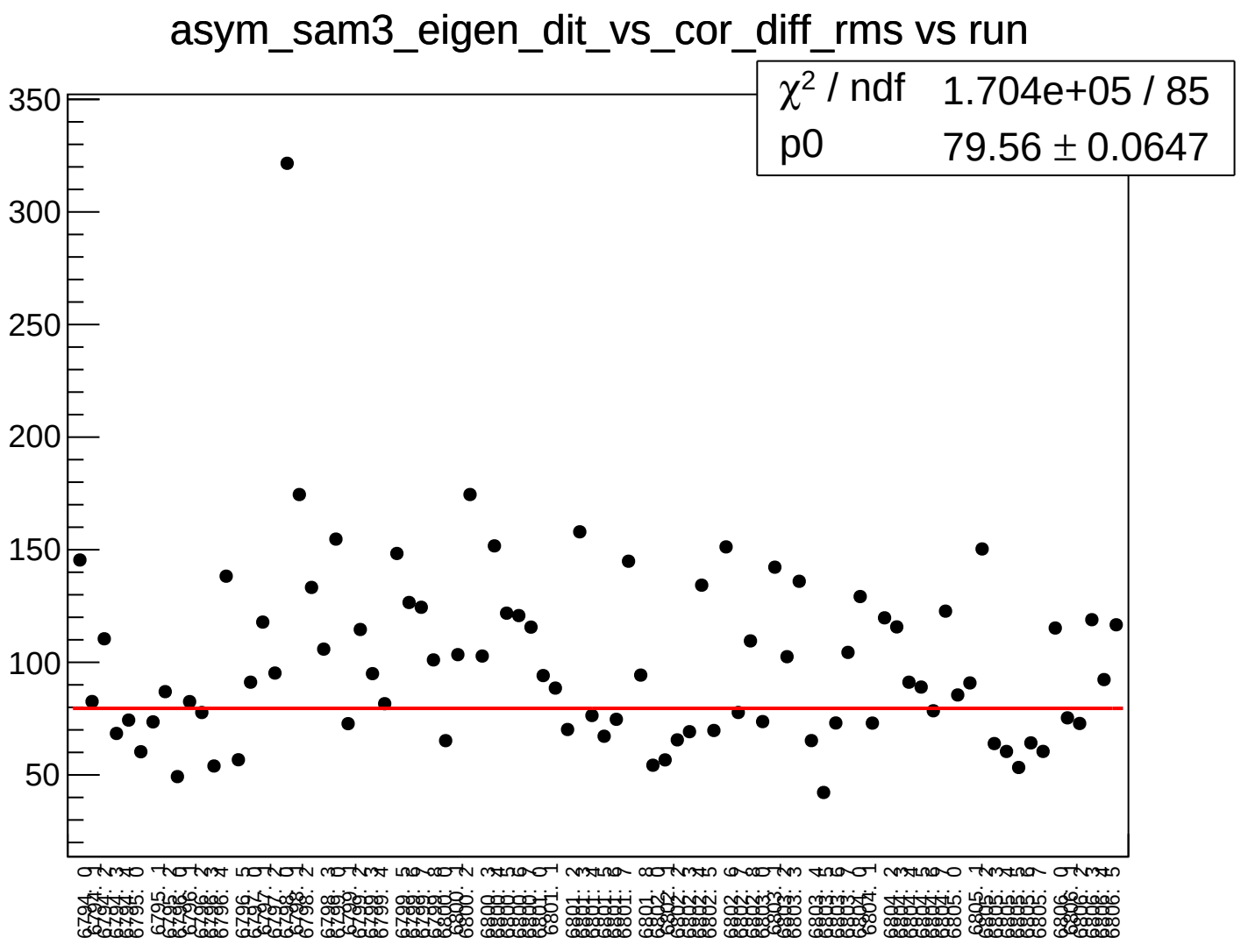

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.4 / 85
p0 8.357e−07 ± 2.557e−06
pull
Entries 86
Mean −133.6
Std Dev 0

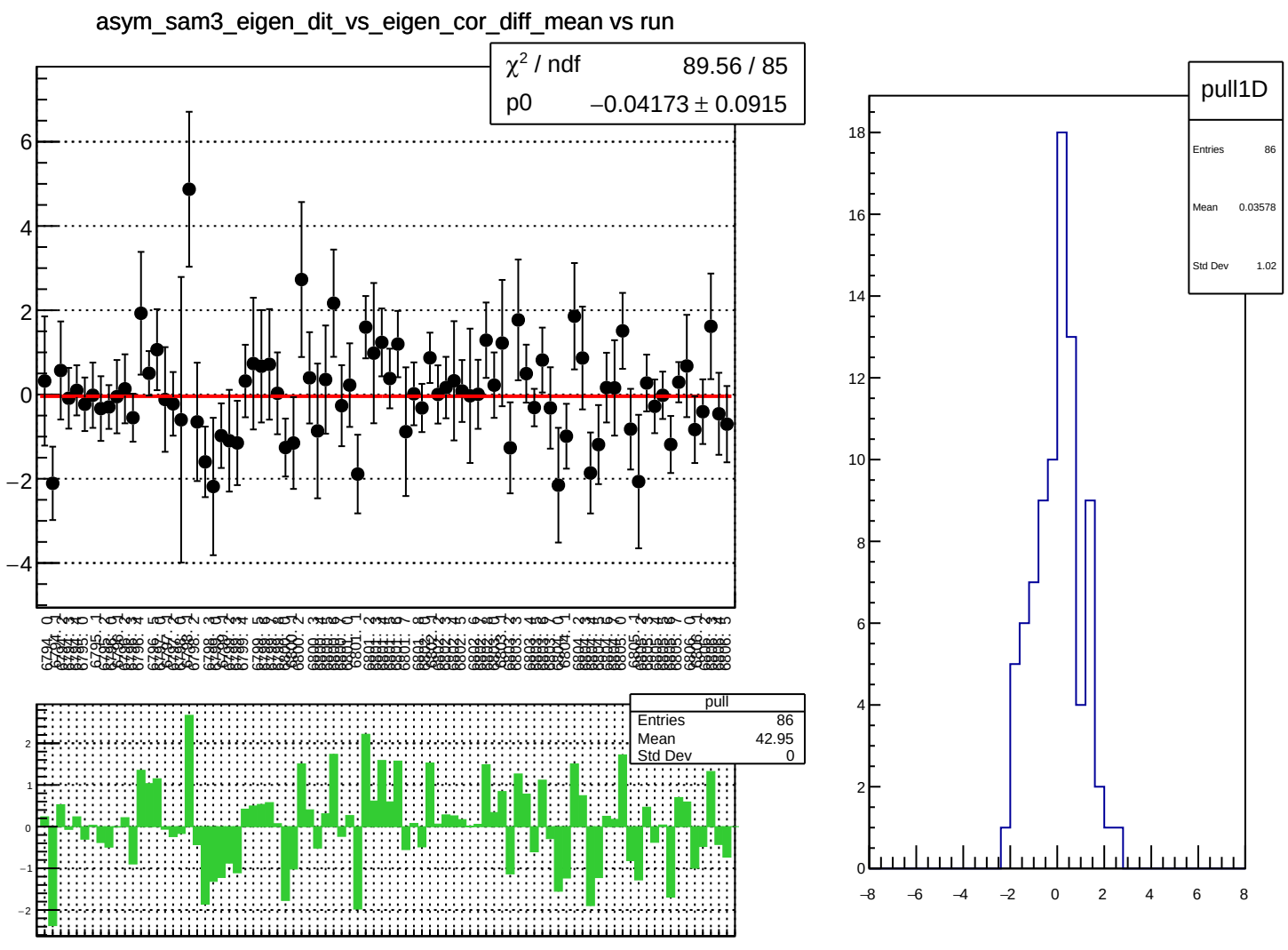

pull1D
Entries 86
Mean 0.0118
Std Dev 0.9668

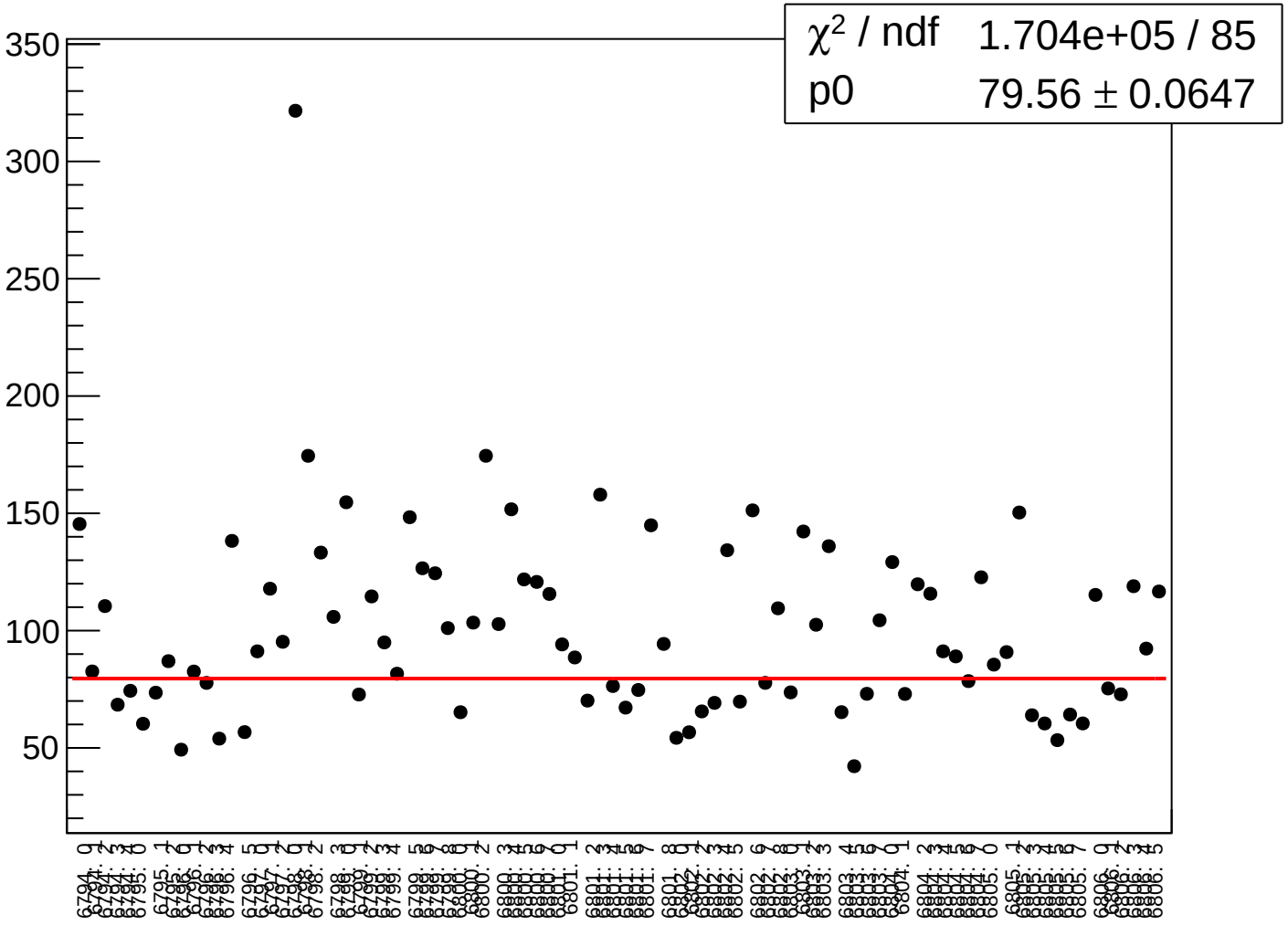

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.157e+04 / 85
p0 0.002337 ± 1.808e−06
0.0028
0.0026
0.0024
0.0022
0.002

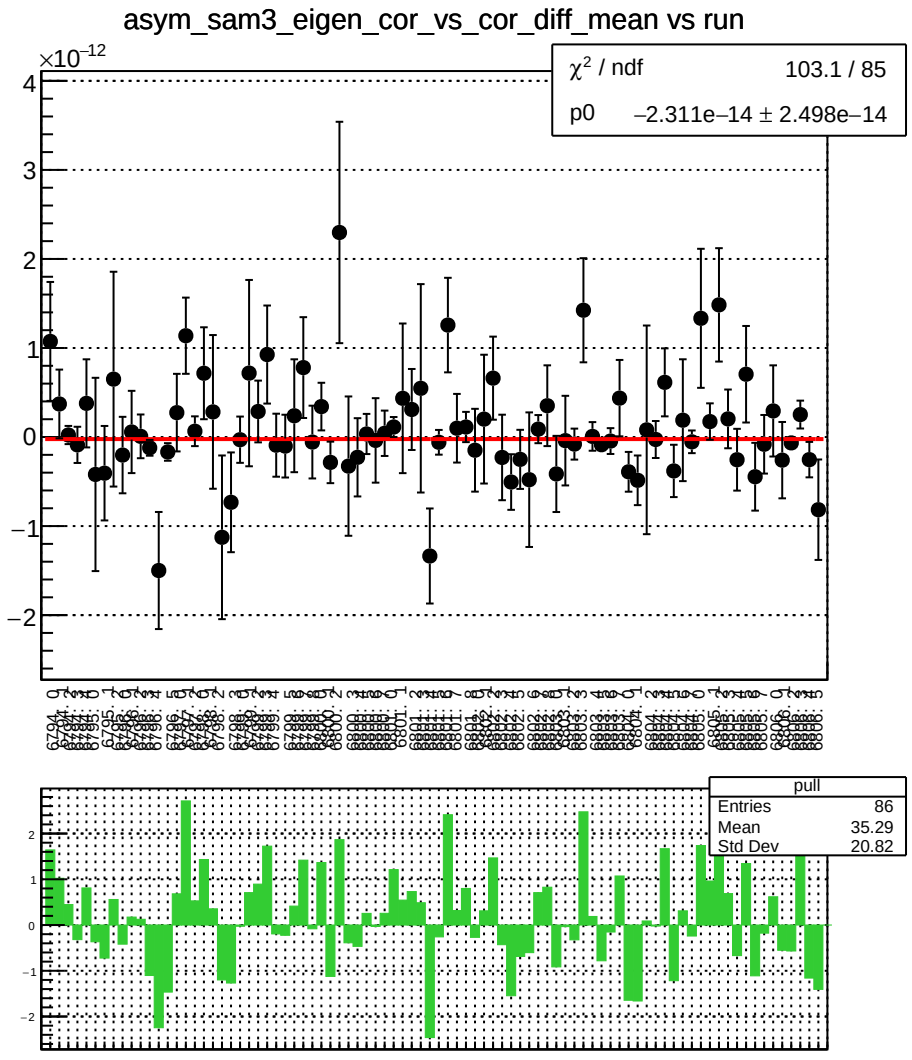

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.56 / 85
p0 −0.04173 ± 0.0915
pull
Entries 86
Mean 42.95
Std Dev 0

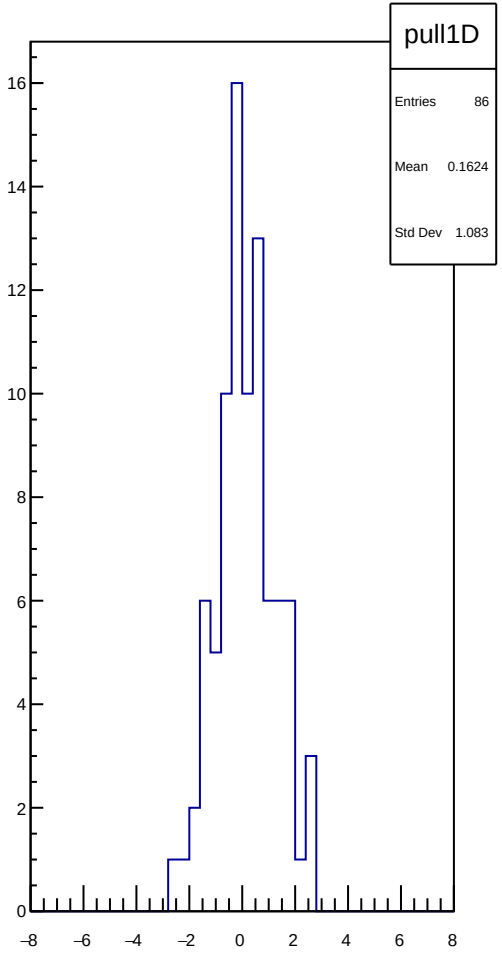

pull1D
Entries 86
Mean 0.03578
Std Dev 1.02

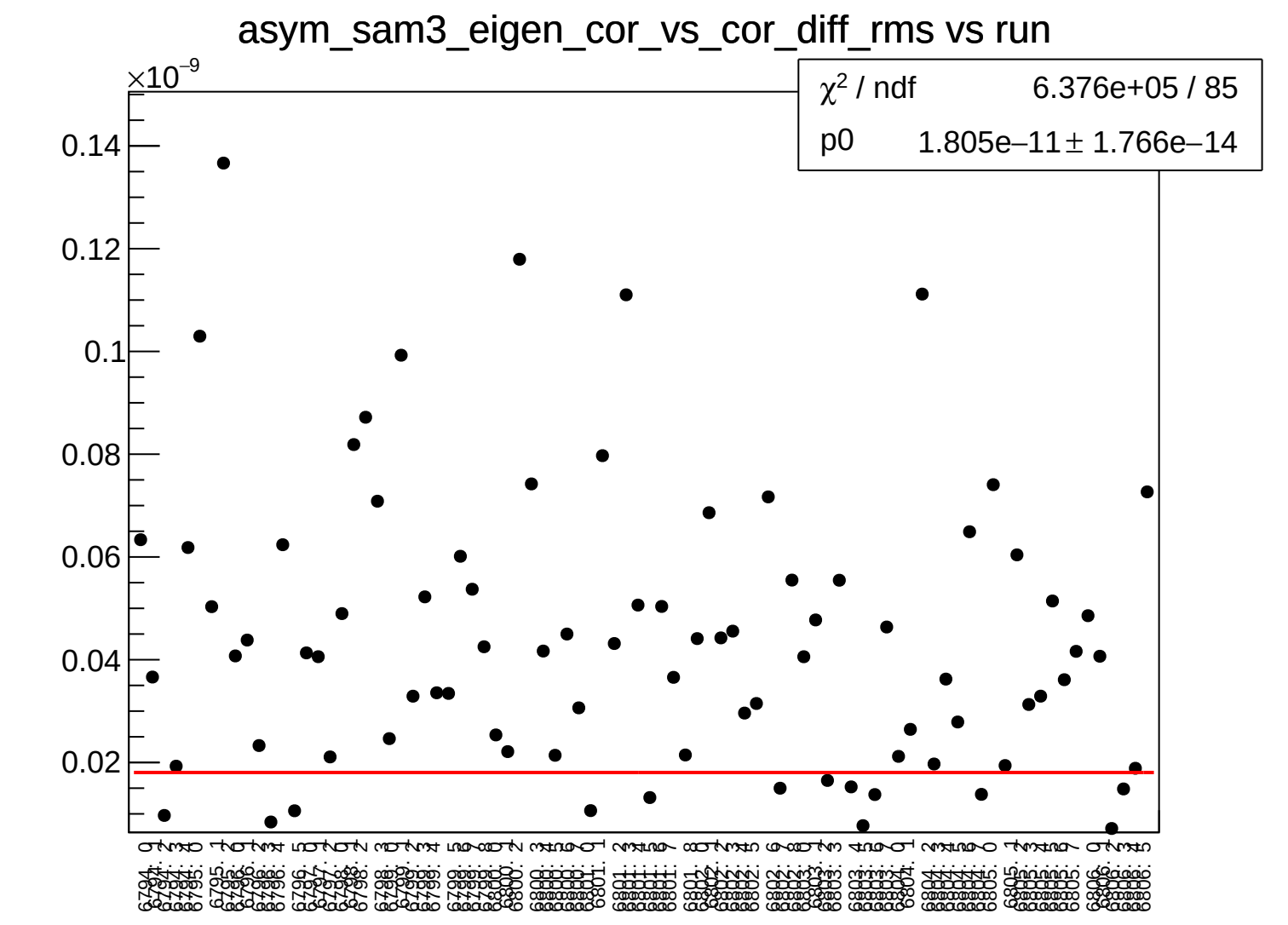

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 85
p0 79.56 ± 0.0647
350
300
250
200
150
100
50

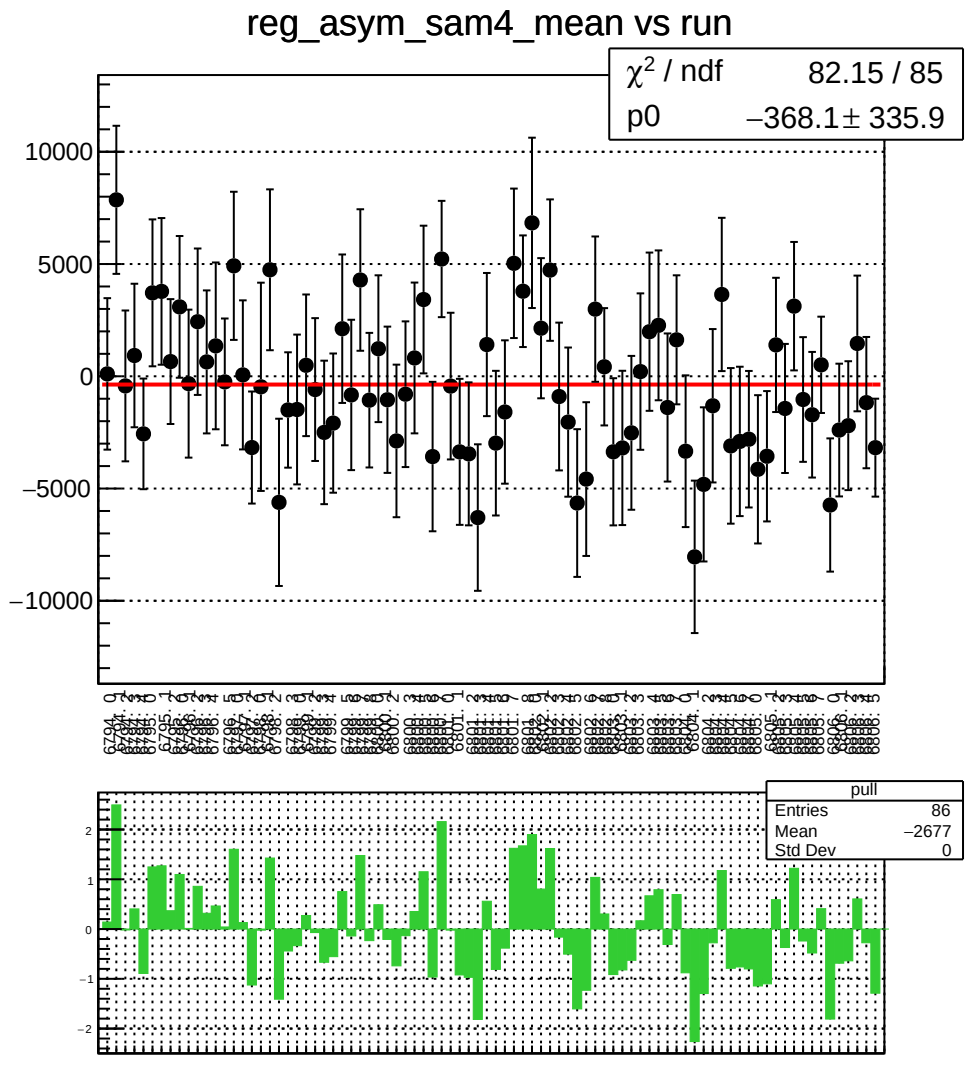

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.56 / 85
p0 −0.04173 ± 0.0915
pull
Entries 86
Mean 42.95
Std Dev 0
pull1D
Entries 86
Mean 0.03578
Std Dev 1.02

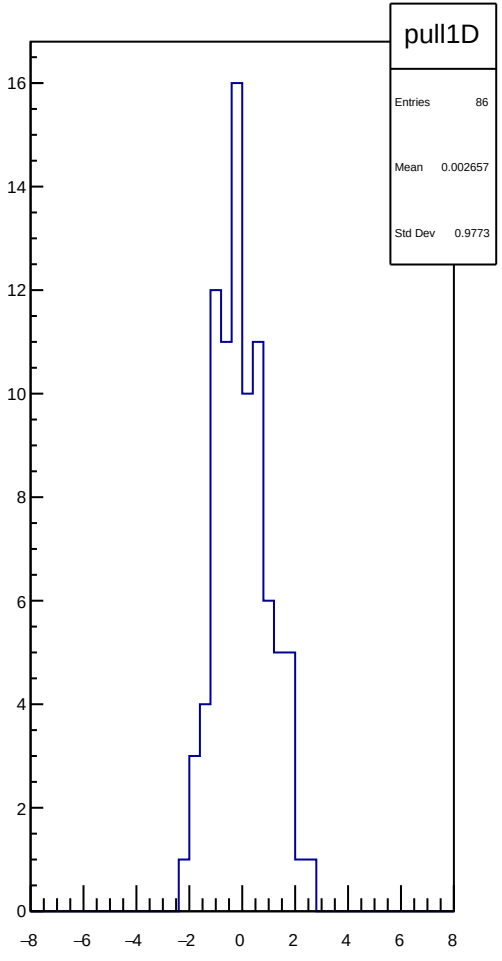

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+05 / 85
p0 79.56 ± 0.0647
350
300
250
200
150
100
50

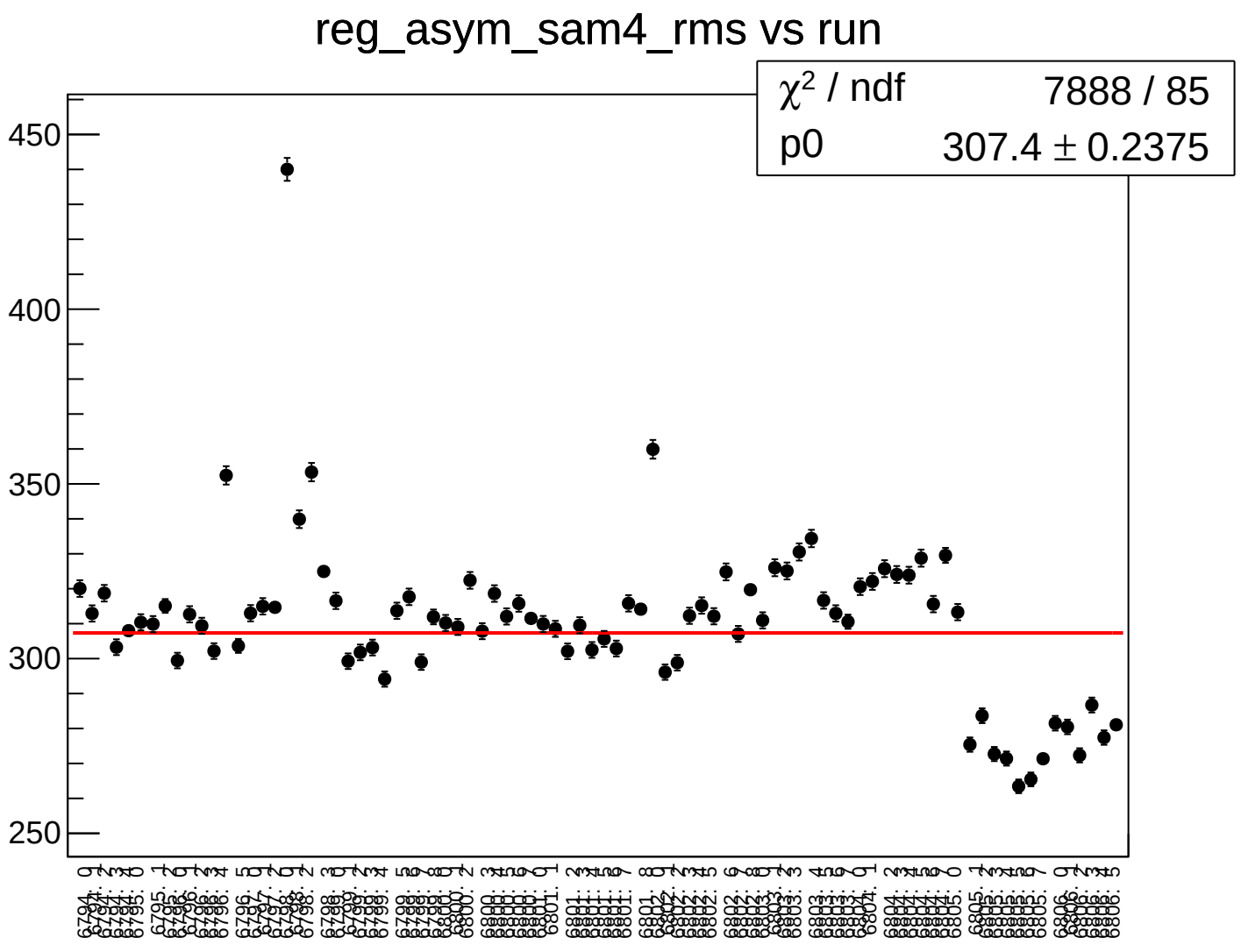

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 103.1 / 85
p0 −2.311e−14 ± 2.498e−14
pull
Entries 86
Mean 35.29
Std Dev 20.82

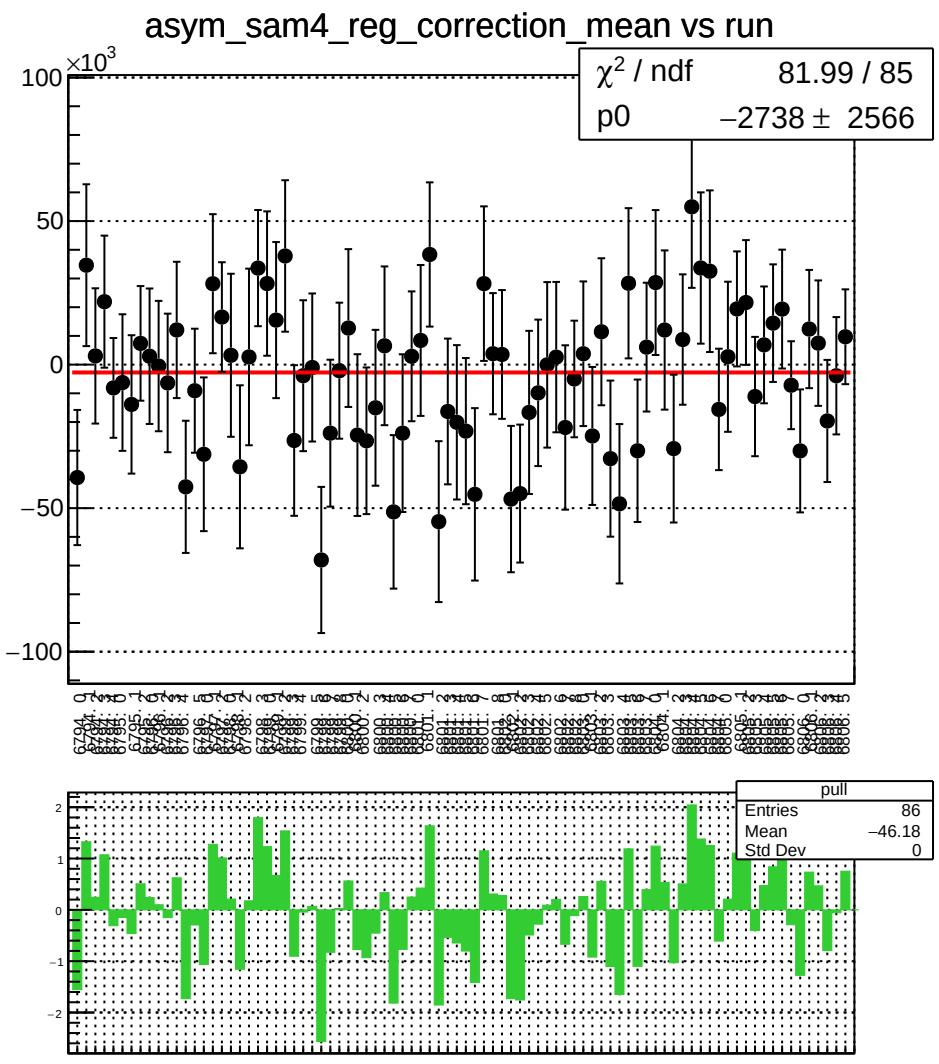

pull1D
Entries 86
Mean 0.1624
Std Dev 1.083

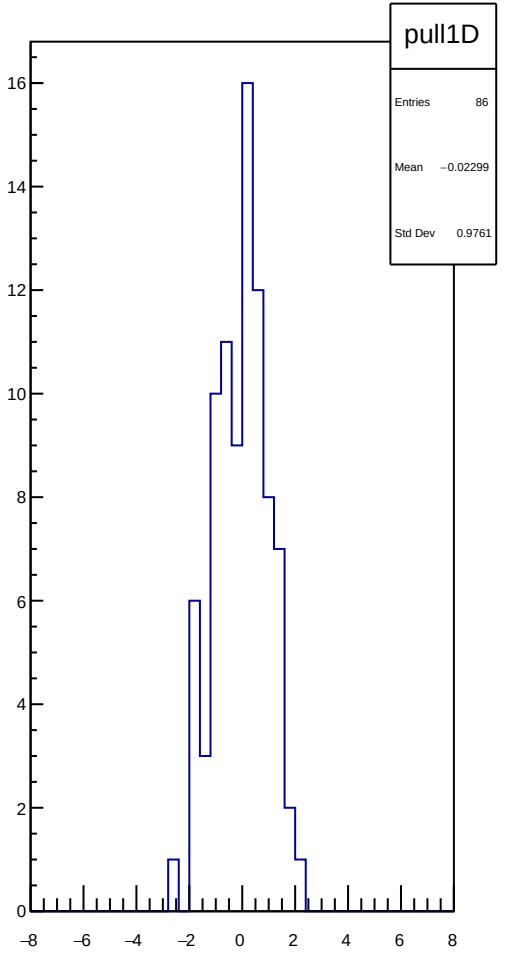

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.376e+05 / 85
p0 1.805e−11 ± 1.766e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

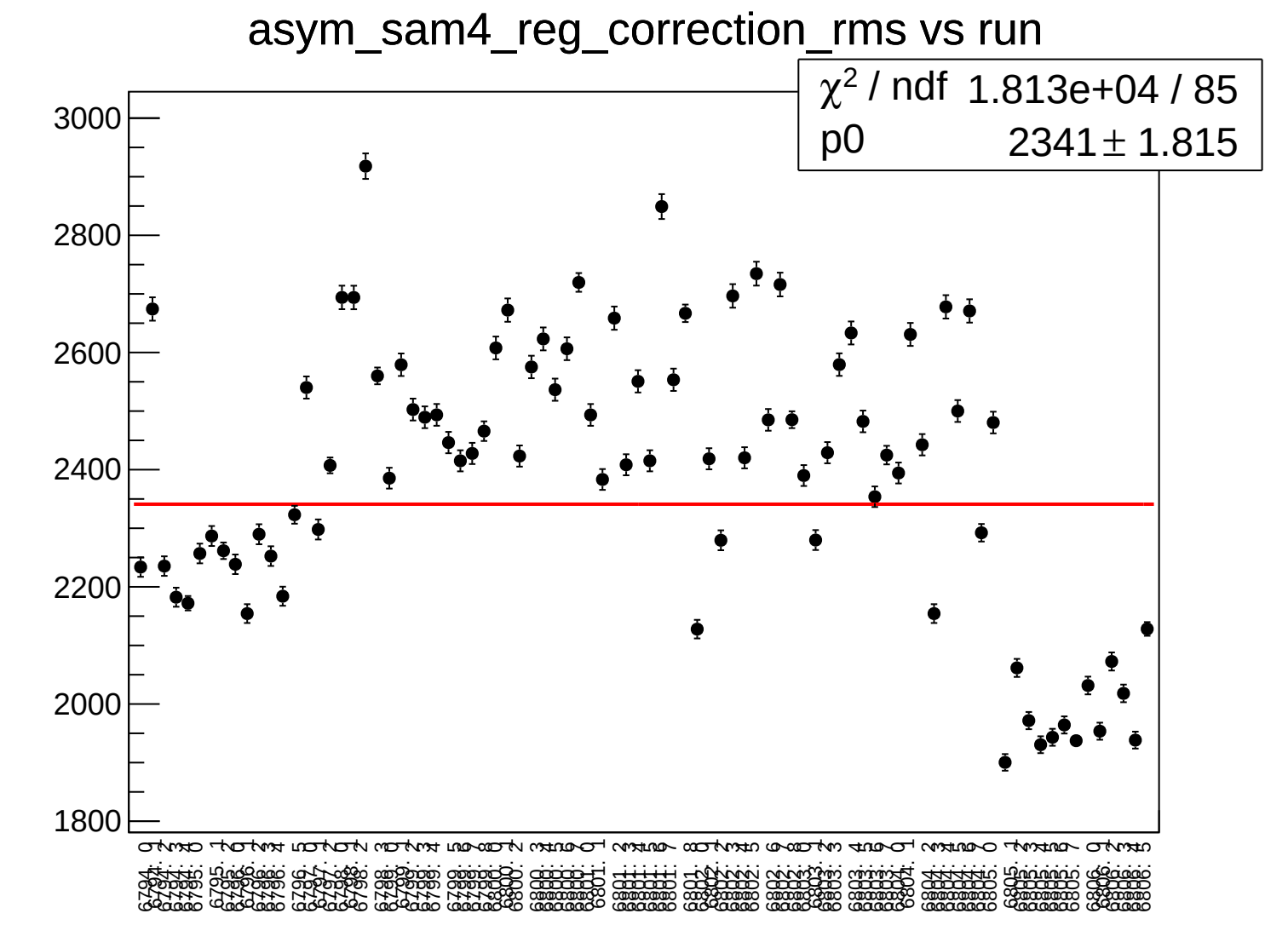

reg_asym_sam4_mean vs run
χ^2 / ndf 82.15 / 85
p0 −368.1± 335.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −2677
Std Dev 0
2
1
0
−1
−2

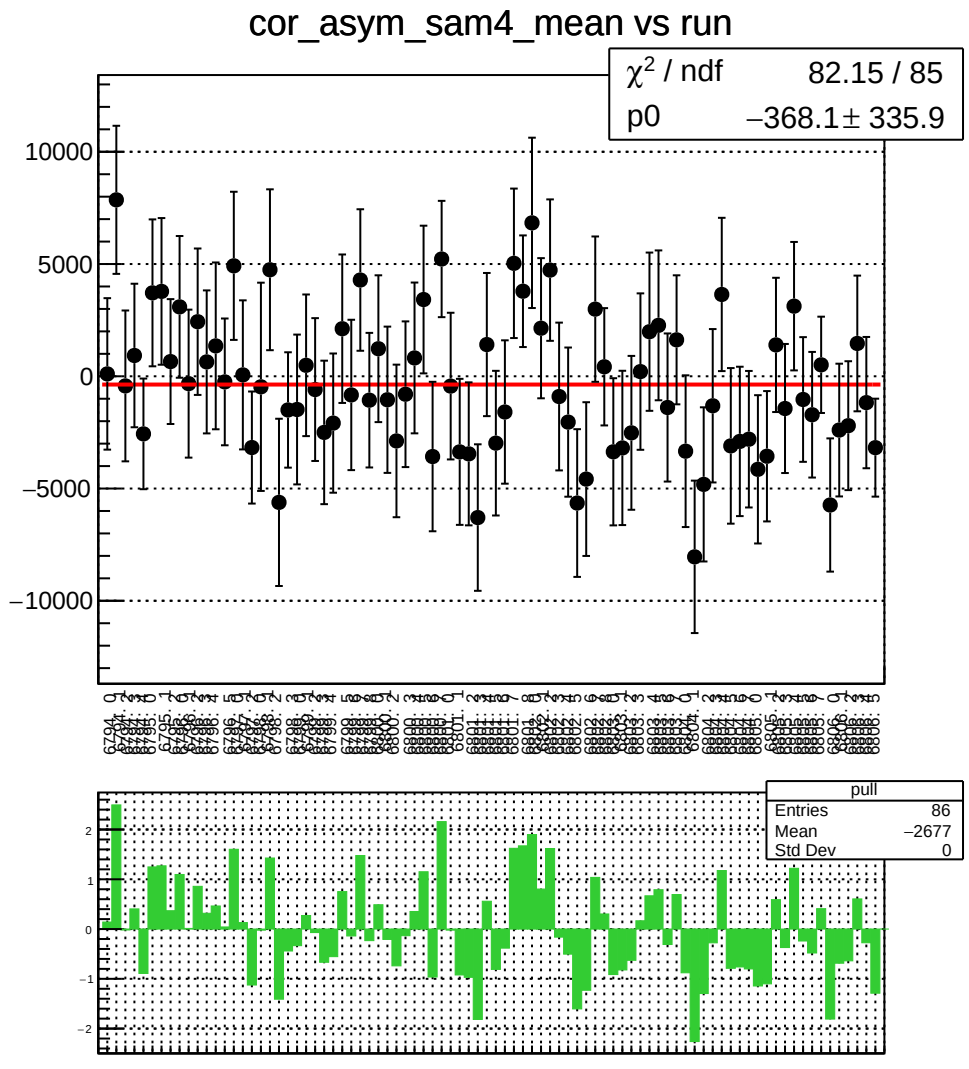

pull1D
Entries 86
Mean 0.002657
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

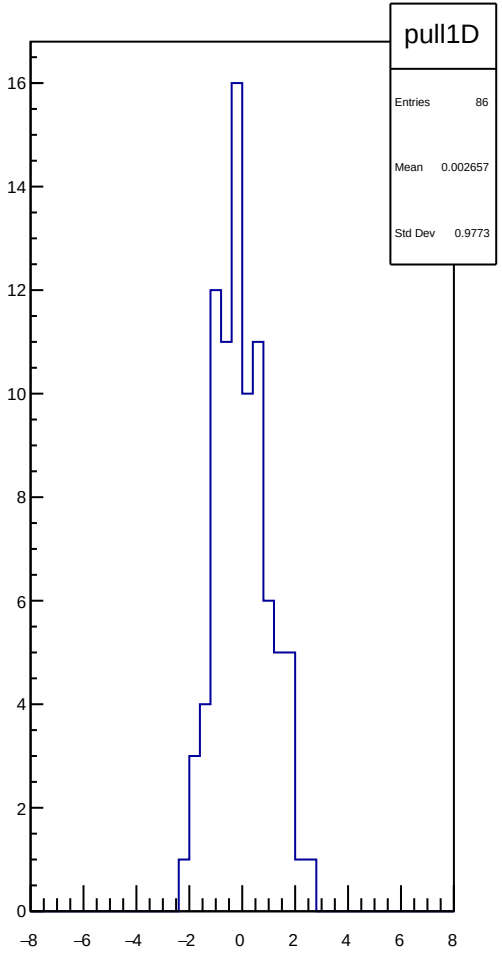

reg_asym_sam4_rms vs run
χ² / ndf 7888 / 85
p0 307.4 ± 0.2375
450
400
350
300
250

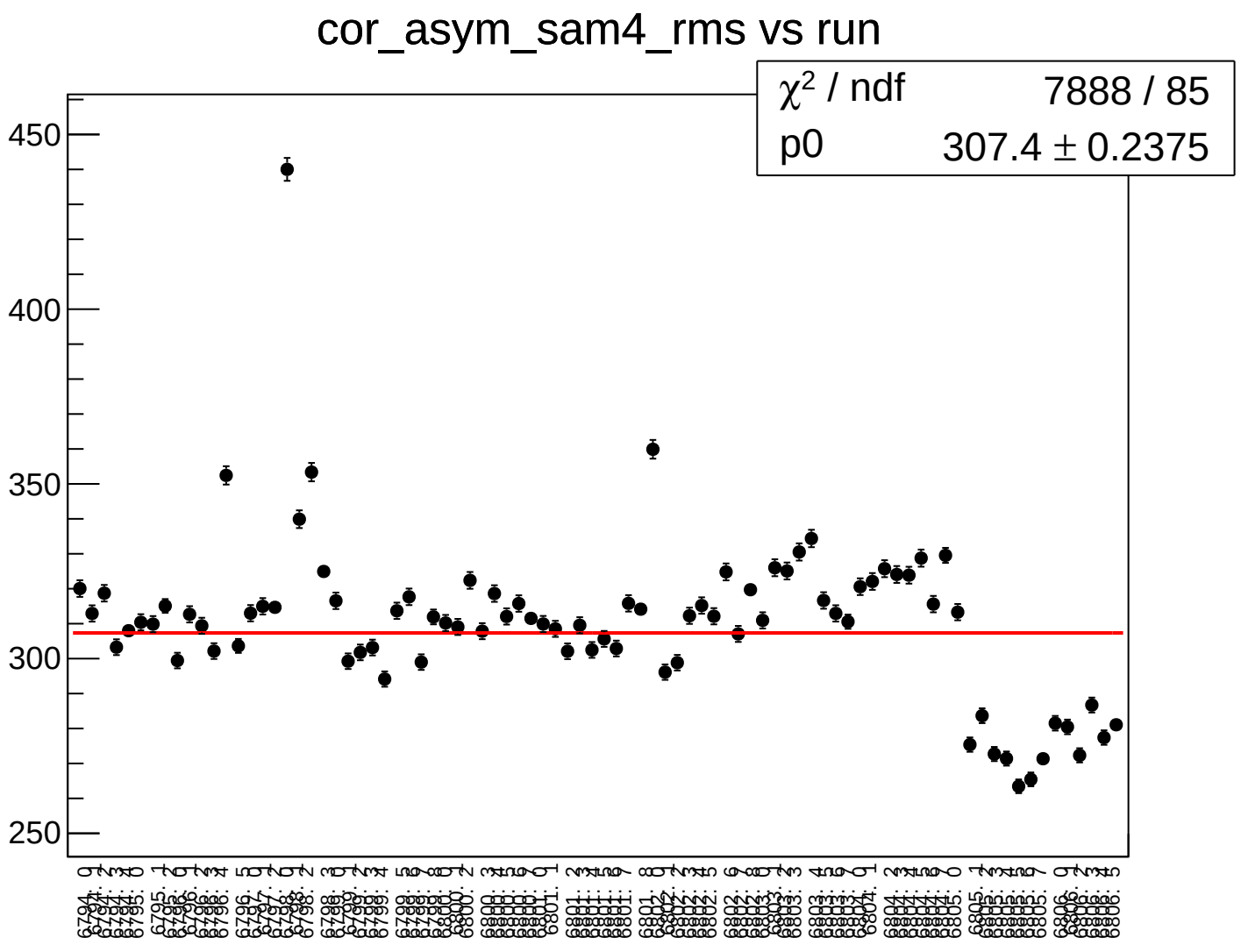

asym_sam4_reg_correction_mean vs run
χ² / ndf 81.99 / 85
p0 −2738 ± 2566
×10³
100
50
0
−50
−100
pull
Entries 86
Mean −46.18
Std Dev 0
2
1
0
−1
−2

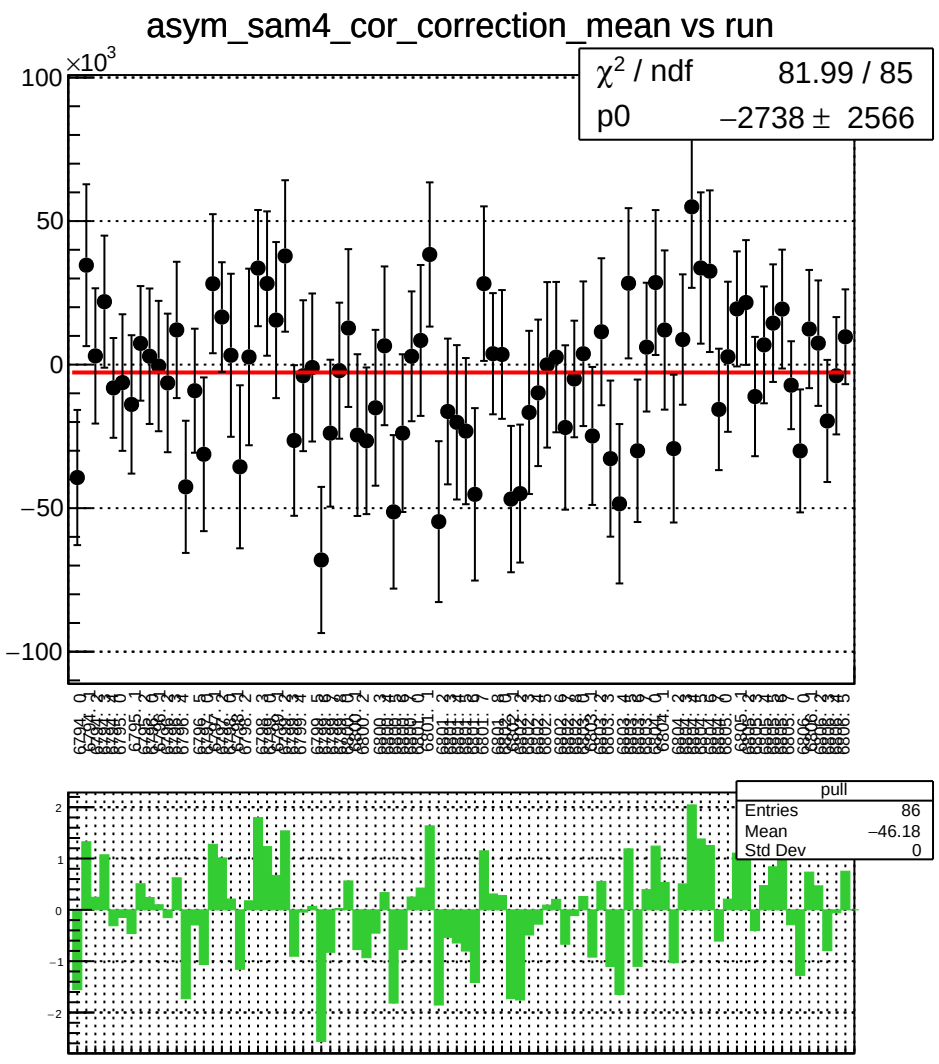

pull1D
Entries 86
Mean −0.02299
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

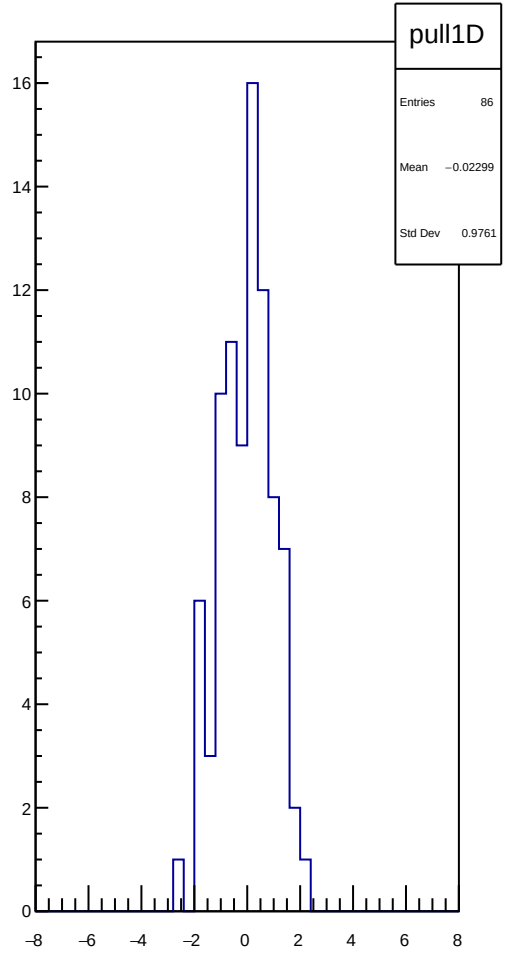

asym_sam4_reg_correction_rms vs run
χ² / ndf 1.813e+04 / 85
p0 2341 ± 1.815
3000
2800
2600
2400
2200
2000
1800


cor_asym_sam4_mean vs run
χ² / ndf 82.15 / 85
p0 −368.1± 335.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −2677
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.002657
Std Dev 0.9773
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 7888 / 85
p0 307.4 ± 0.2375
450
400
350
300
250


asym_sam4_cor_correction_mean vs run
χ² / ndf 81.99 / 85
p0 −2738 ± 2566
×10³
100
50
0
−50
−100
pull
Entries 86
Mean −46.18
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean −0.02299
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
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−4
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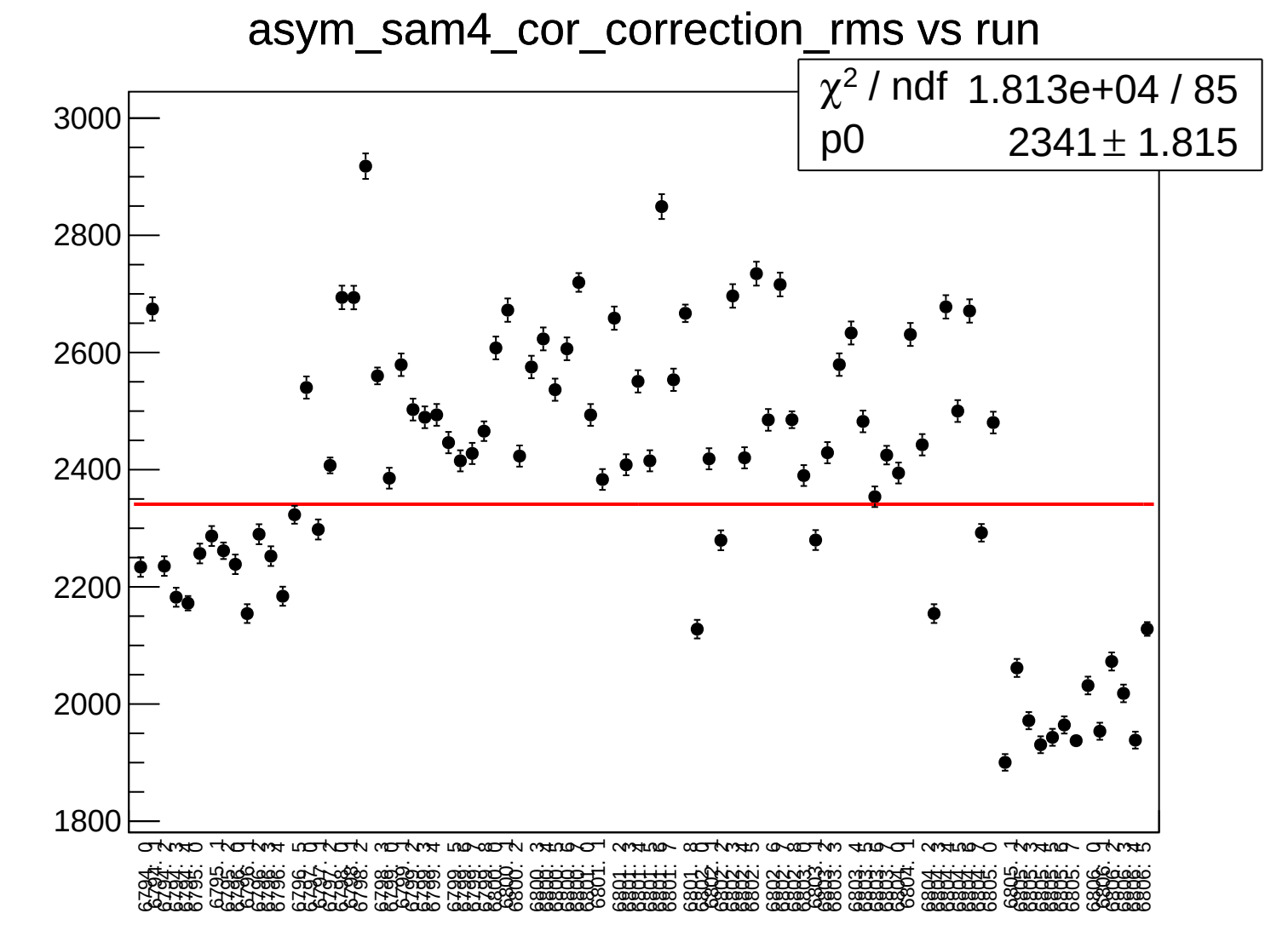
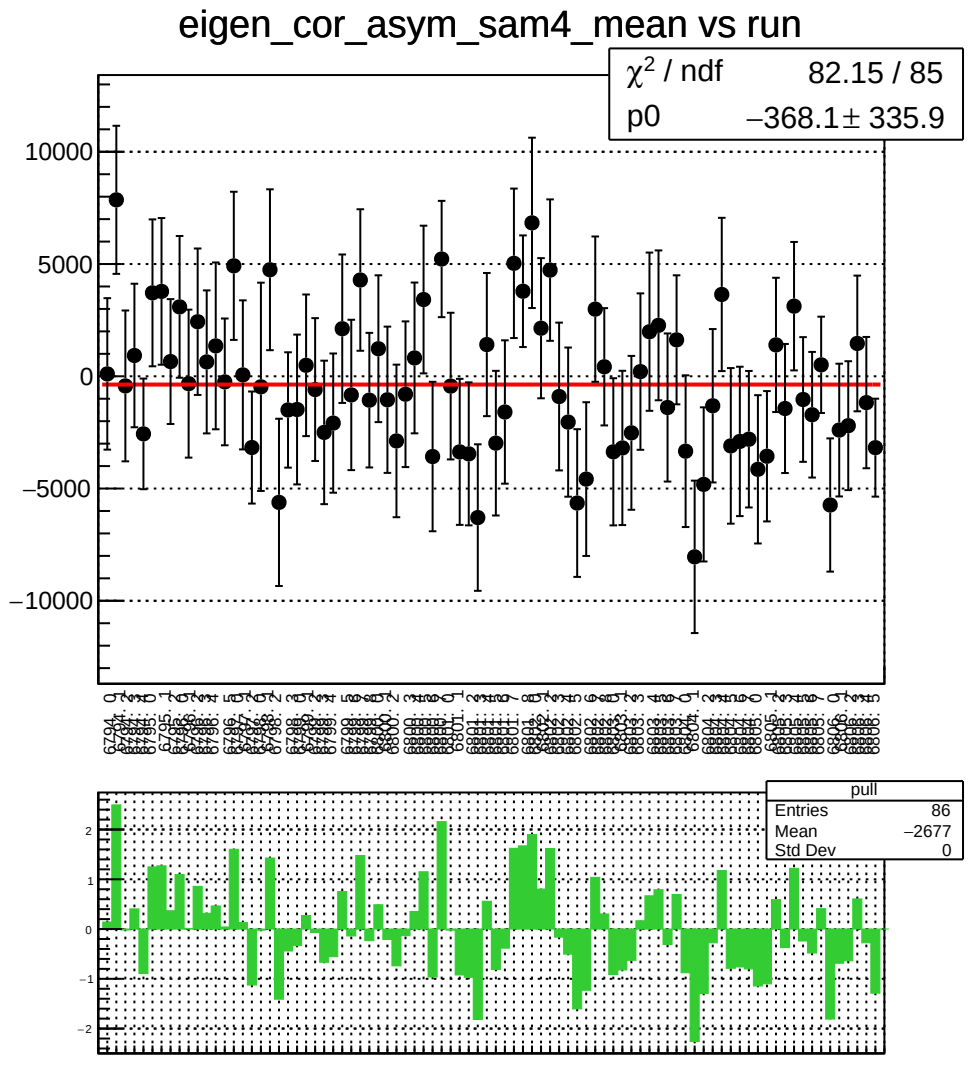
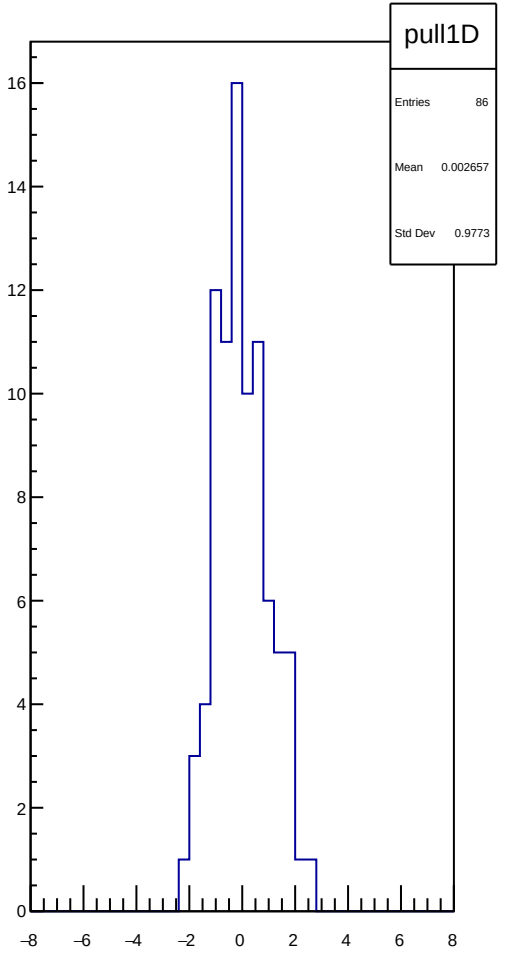
0
2
4
6
8


asym_sam4_cor_correction_rms vs run
χ² / ndf 1.813e+04 / 85
p0 2341 ± 1.815
3000
2800
2600
2400
2200
2000
1800


eigen_cor_asym_sam4_mean vs run
χ² / ndf 82.15 / 85
p0 −368.1± 335.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −2677
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.002657
Std Dev 0.9773
16
14
12
10
8
6
4
2
0
−8
−6
−4
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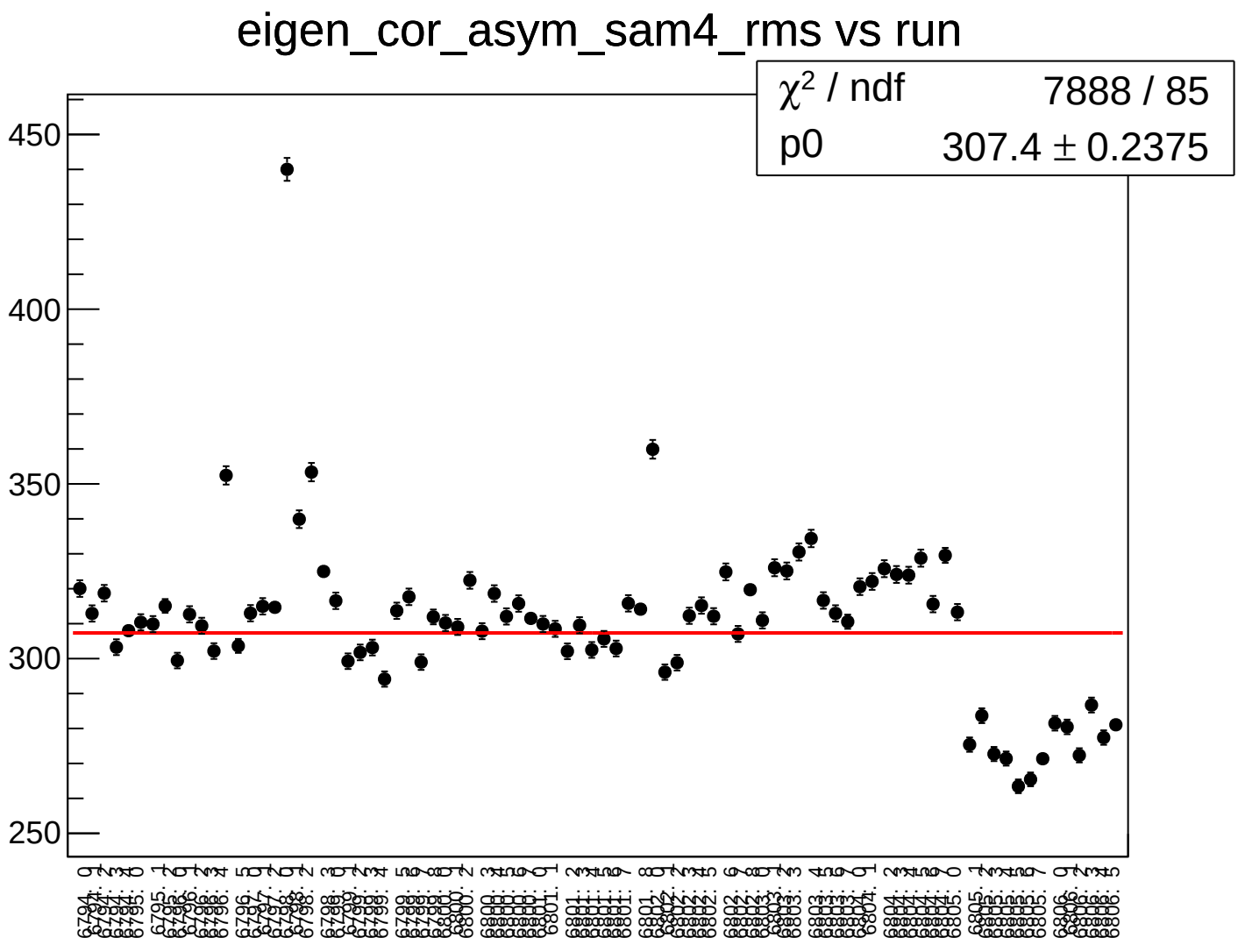
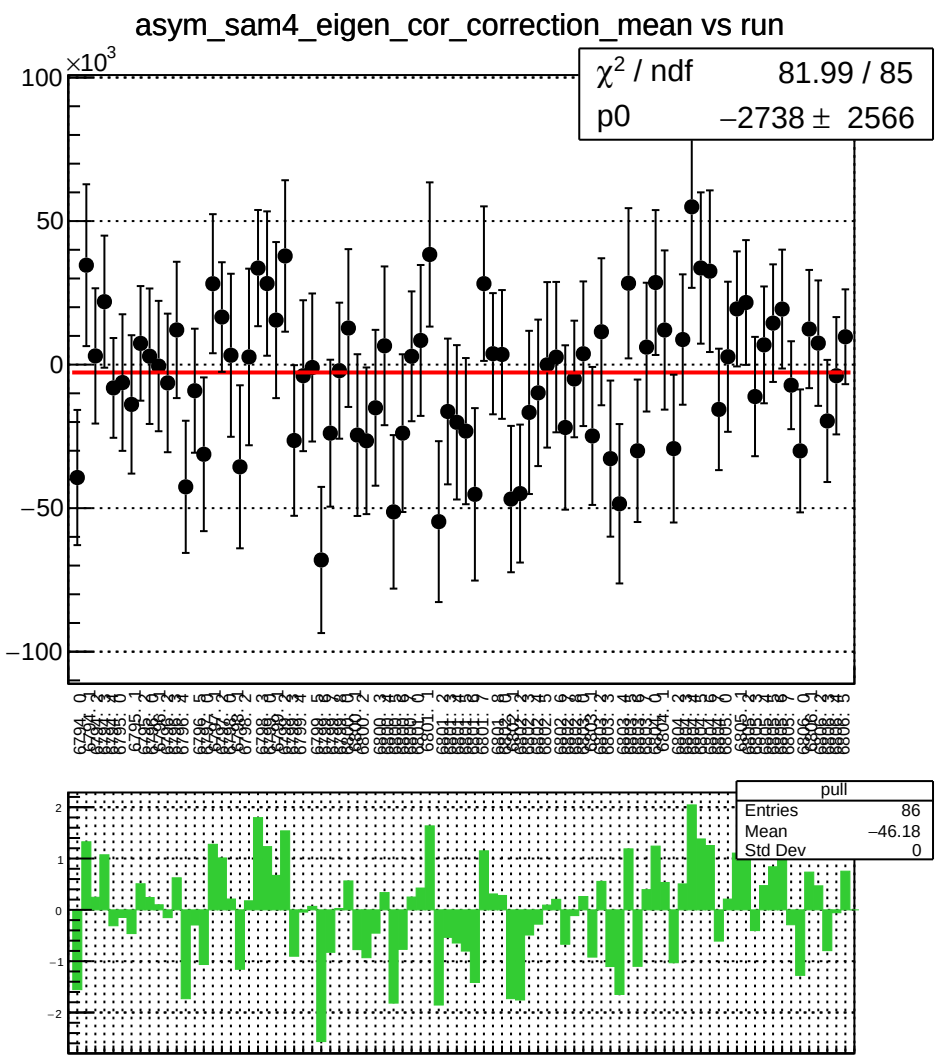
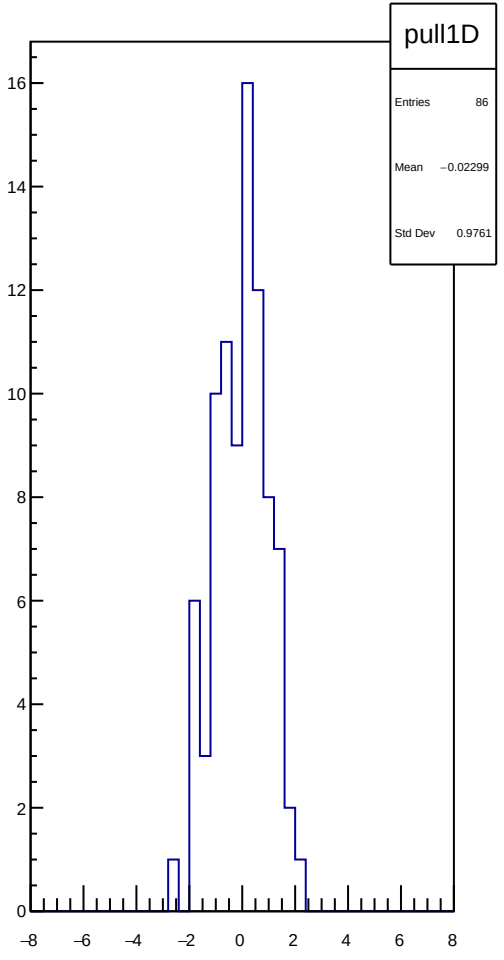
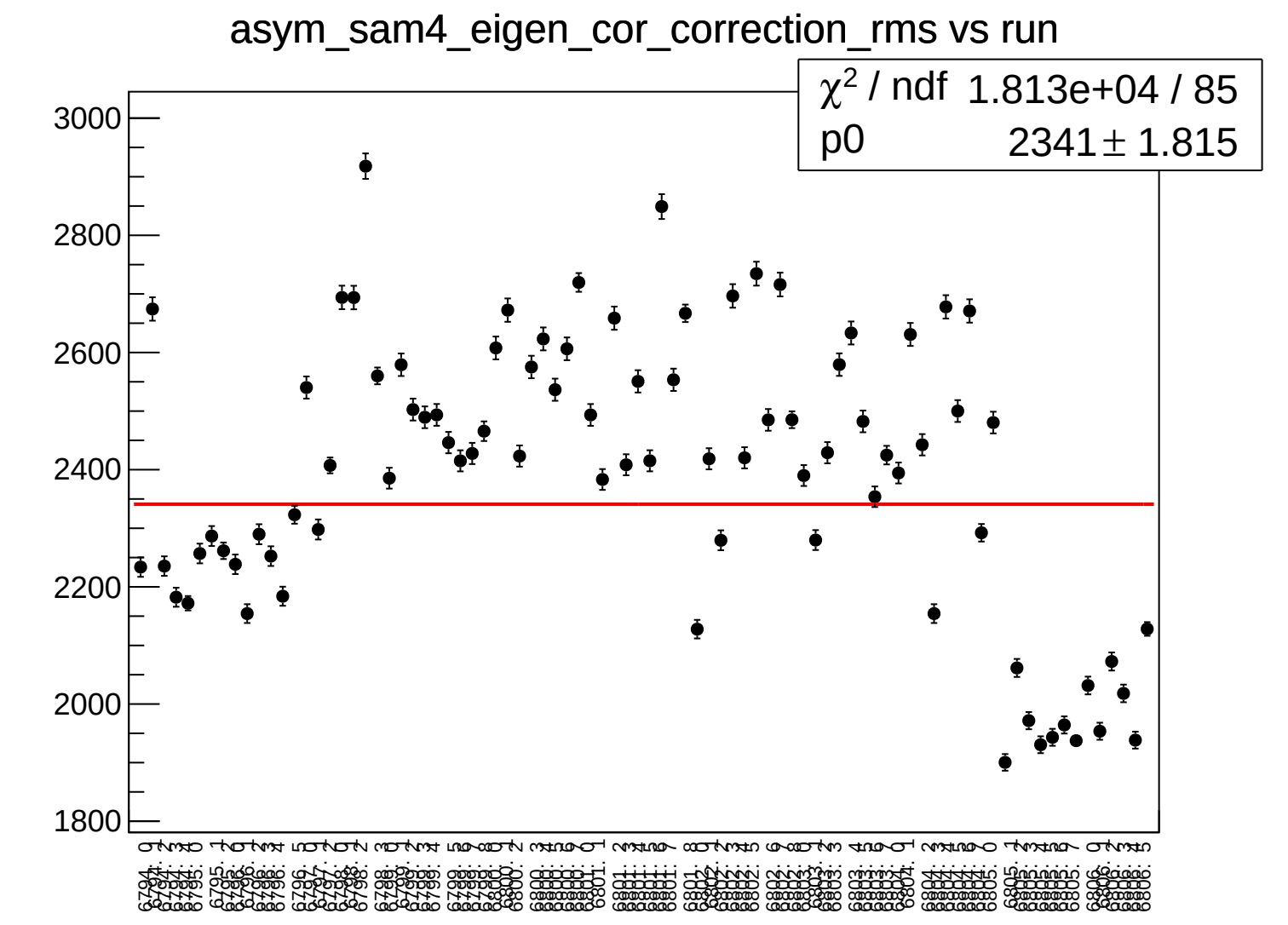
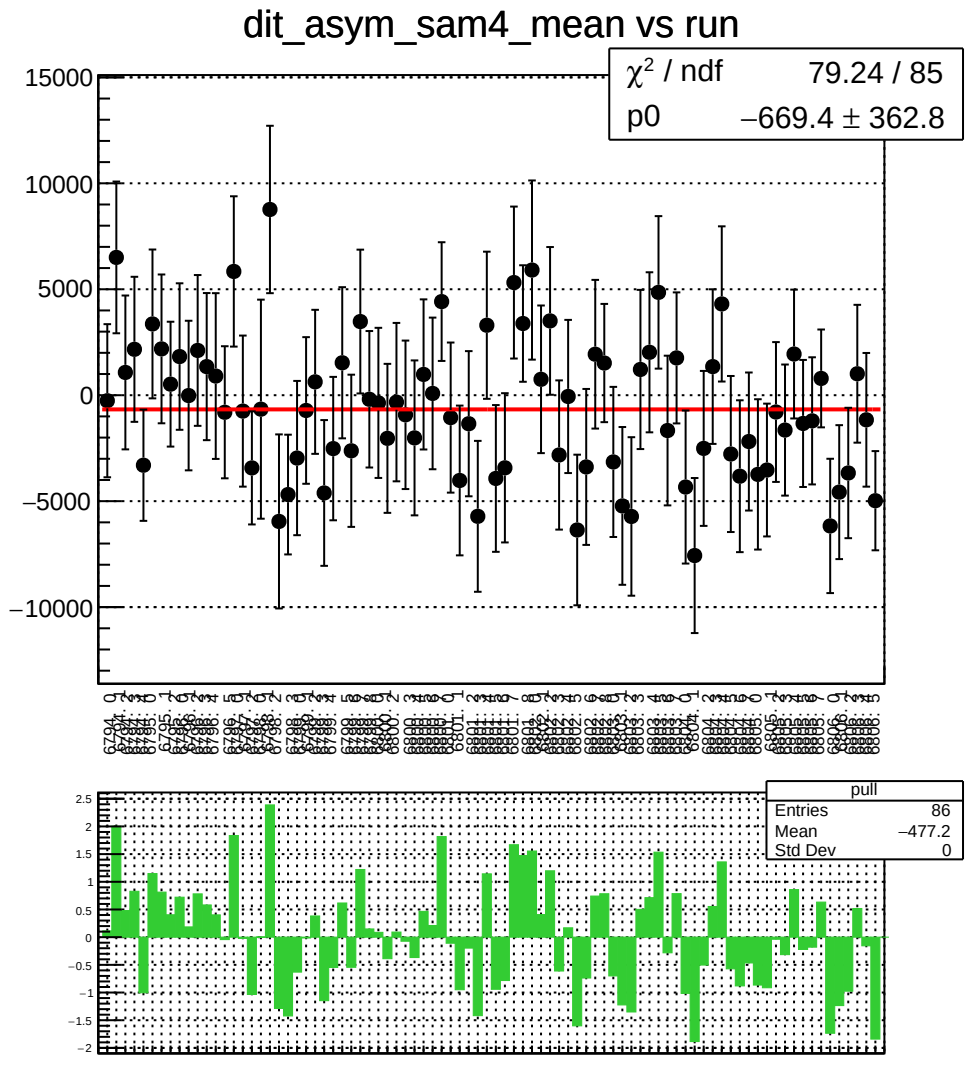
0
2
4
6
8

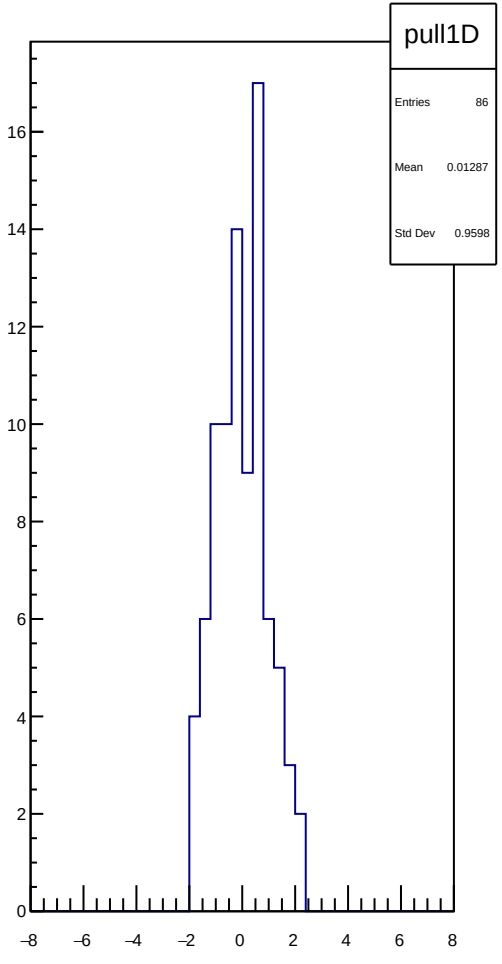

eigen_cor_asym_sam4_rms vs run
χ² / ndf 7888 / 85
p0 307.4 ± 0.2375
450
400
350
300
250

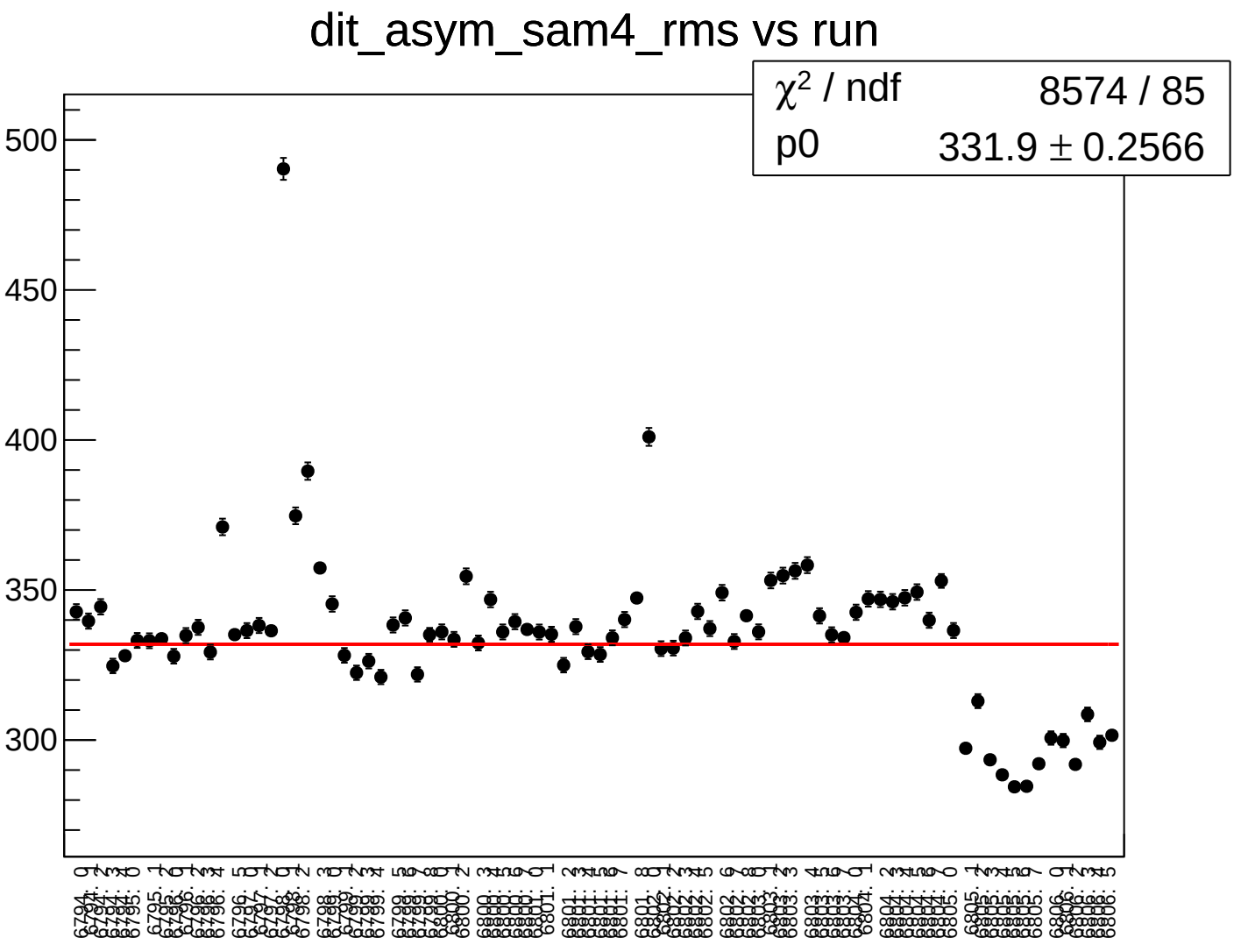

asym_sam4_eigen_cor_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 81.99 / 85
p0 −2738 ± 2566
pull
Entries 86
Mean −46.18
Std Dev 0
2
1
0
−1
−2

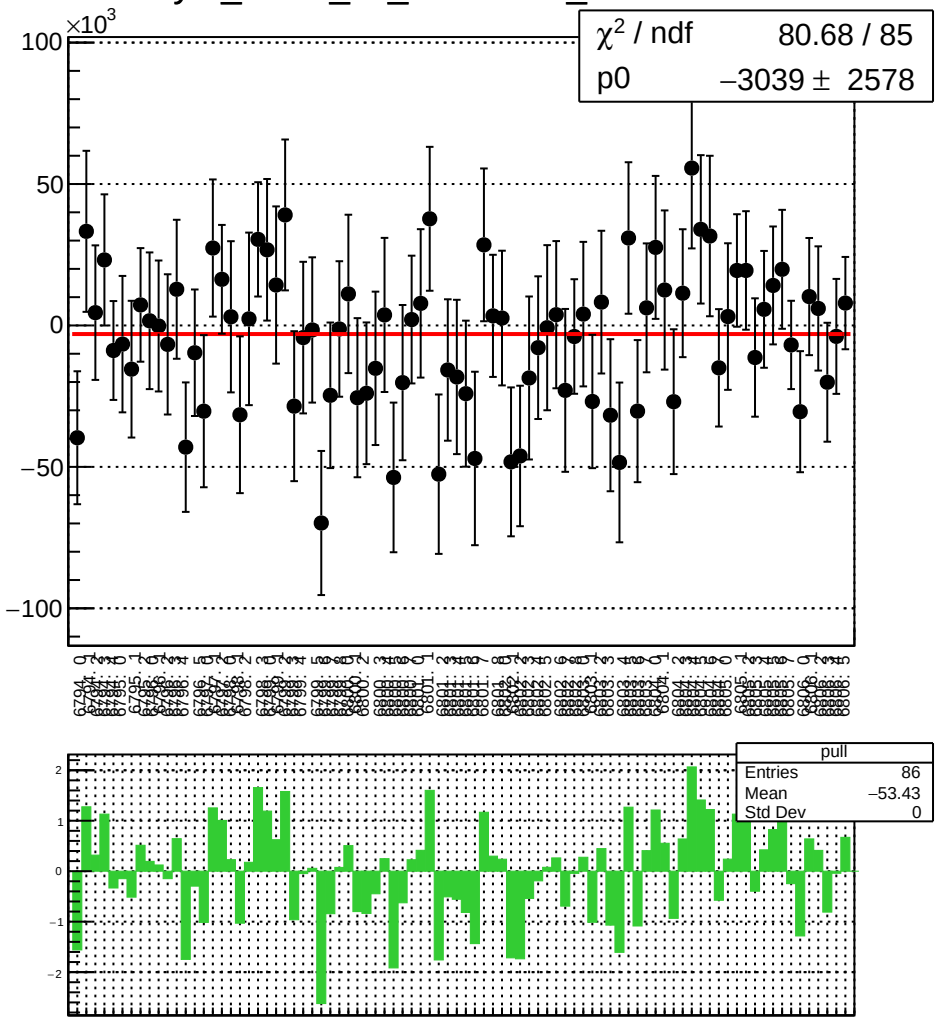

pull1D
Entries 86
Mean −0.02299
Std Dev 0.9761
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

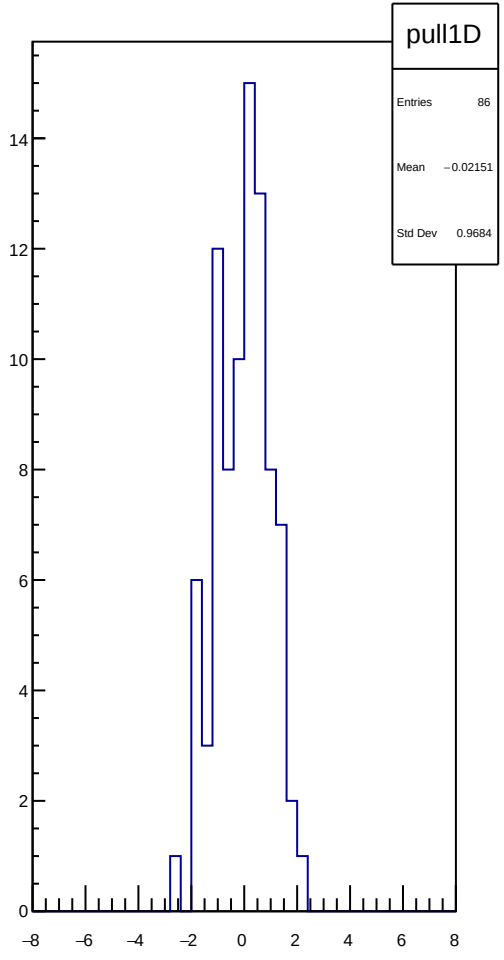

asym_sam4_eigen_cor_correction_rms vs run
χ² / ndf 1.813e+04 / 85
p0 2341 ± 1.815
3000
2800
2600
2400
2200
2000
1800

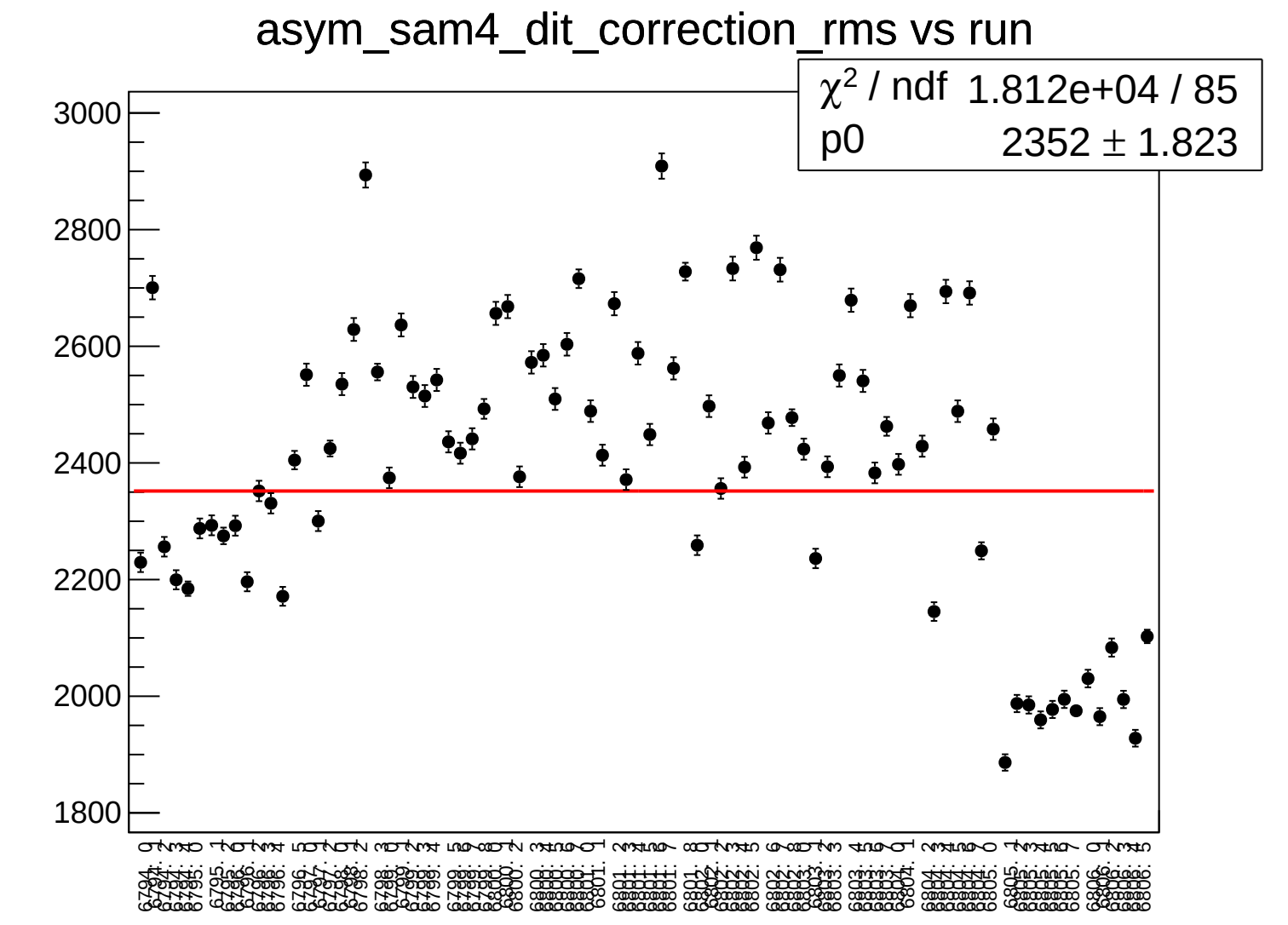

dit_asym_sam4_mean vs run
χ² / ndf 79.24 / 85
p0 −669.4 ± 362.8
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −477.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

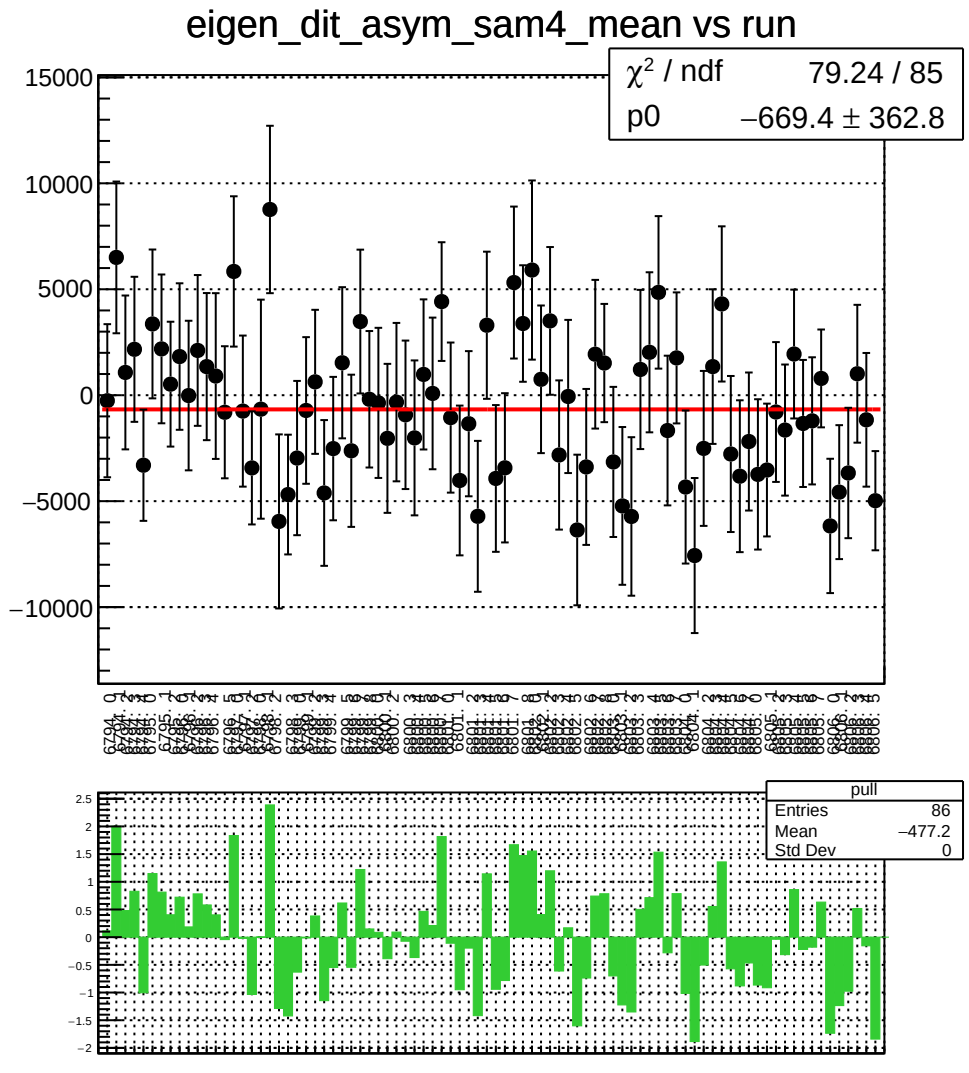

pull1D
Entries 86
Mean 0.01287
Std Dev 0.9598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

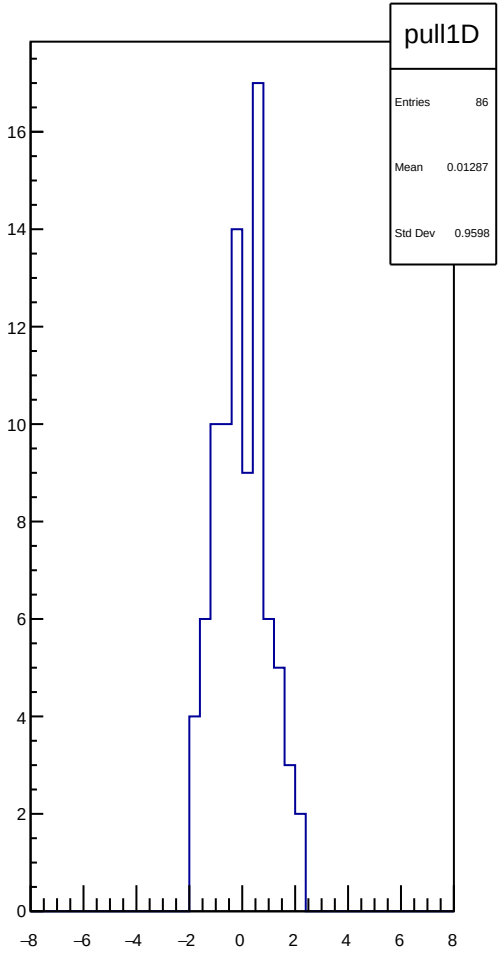

dit_asym_sam4_rms vs run
χ² / ndf 8574 / 85
p0 331.9 ± 0.2566
500
450
400
350
300

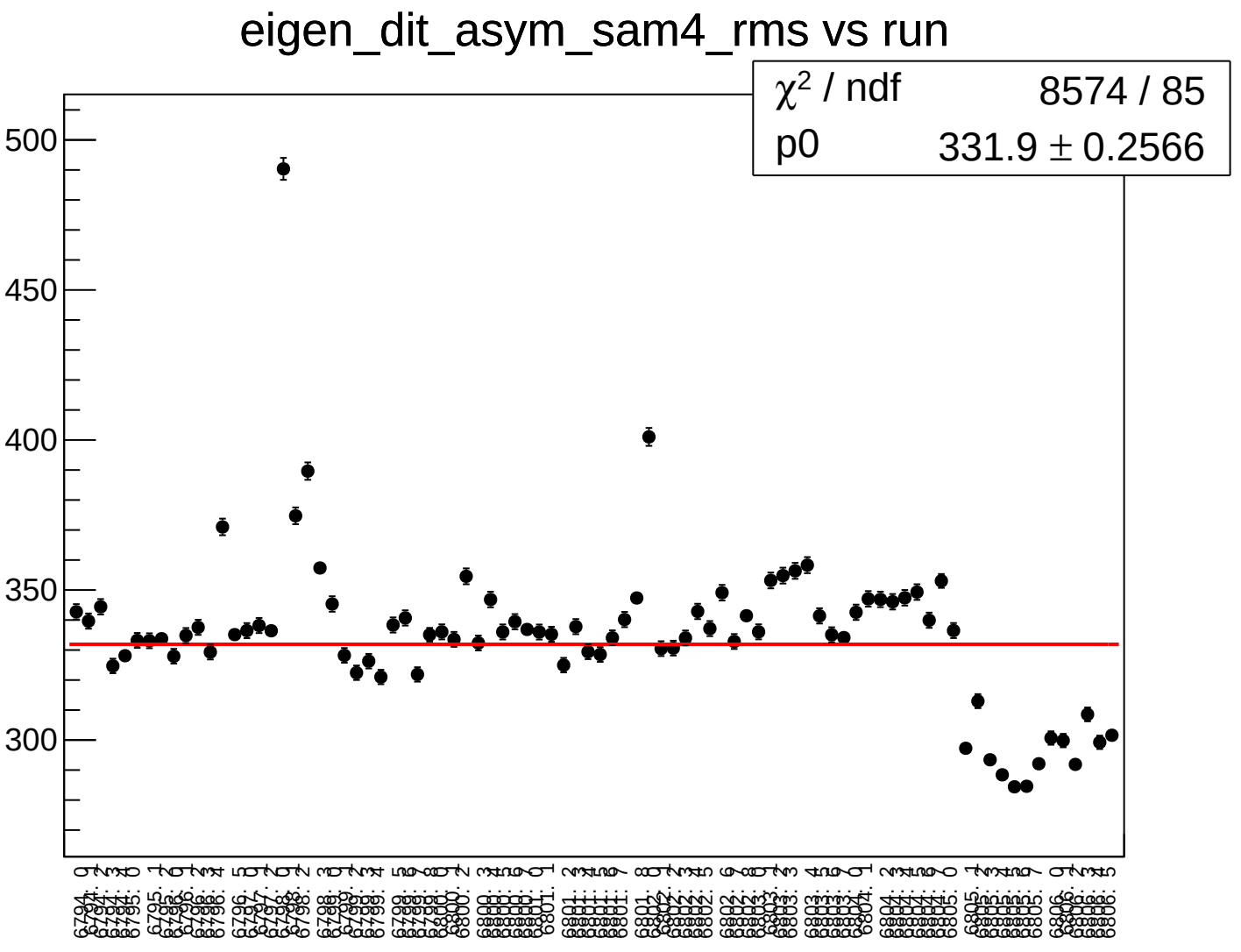

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 80.68 / 85
p0 −3039 ± 2578
100
50
0
−50
−100
pull
Entries 86
Mean −53.43
Std Dev 0
2
1
0
−1
−2

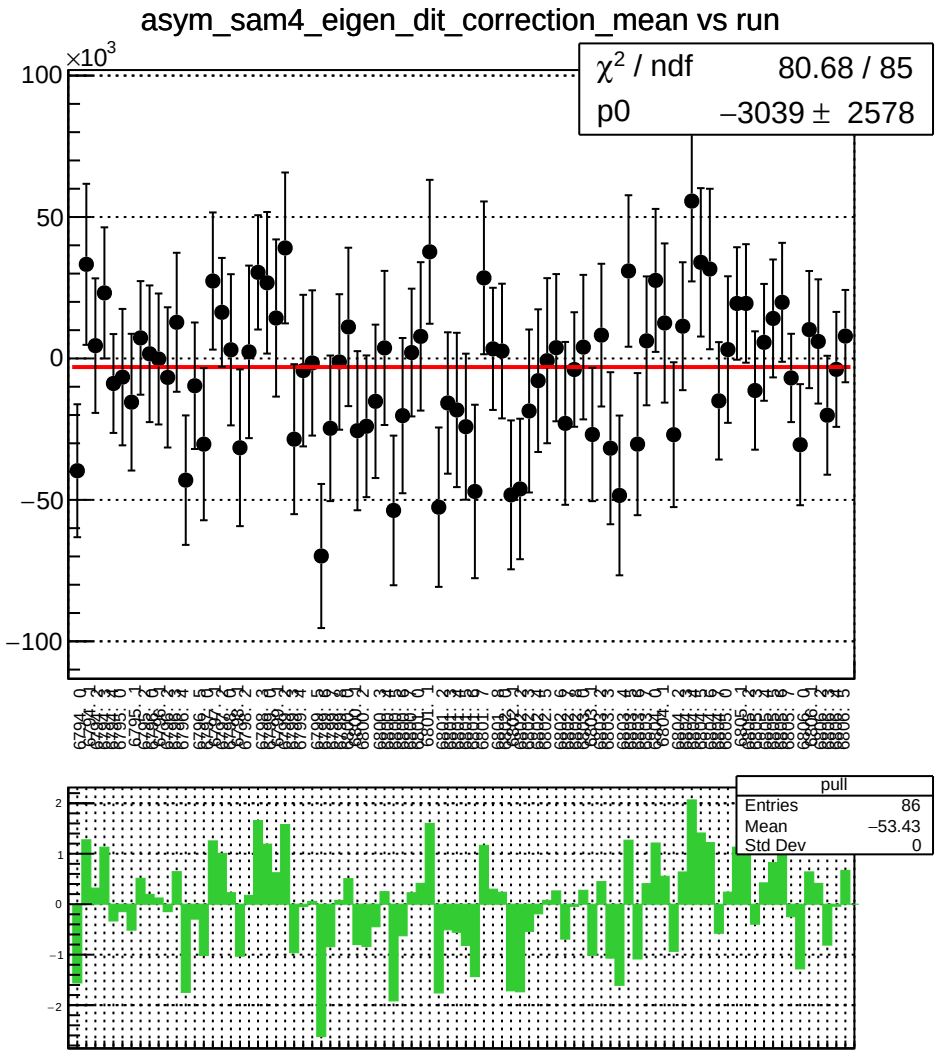

pull1D
Entries 86
Mean −0.02151
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

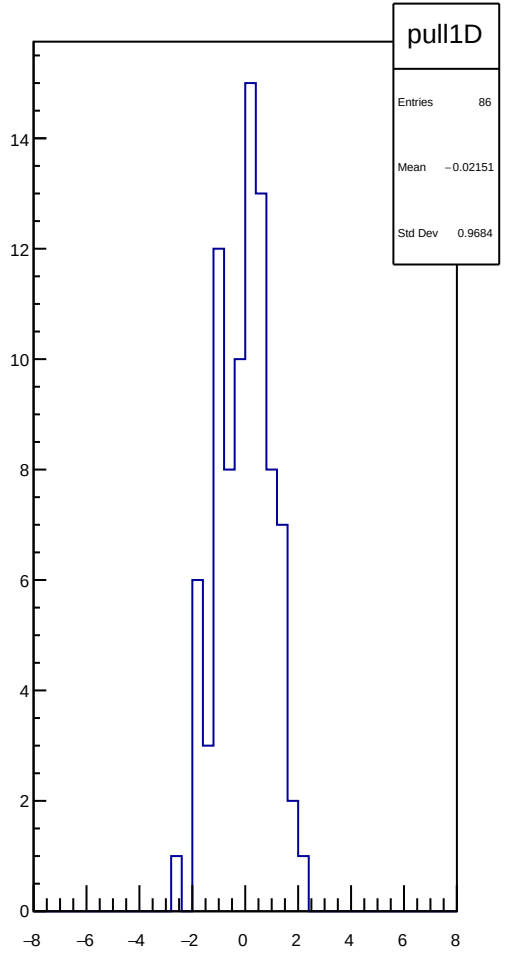

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.812e+04 / 85
p0 2352 ± 1.823
3000
2800
2600
2400
2200
2000
1800

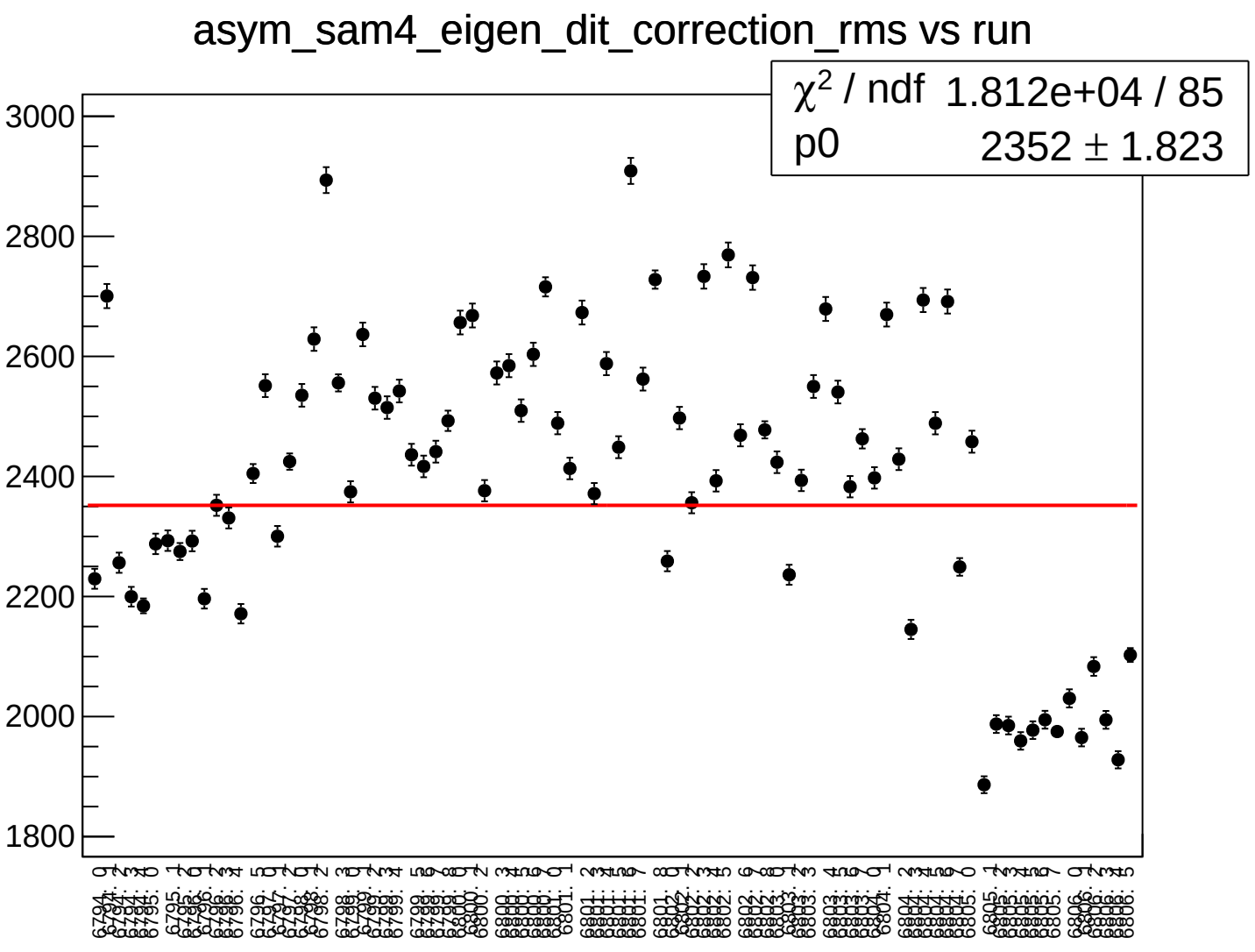

eigen_dit_asym_sam4_mean vs run
χ² / ndf 79.24 / 85
p0 −669.4 ± 362.8
pull
Entries 86
Mean −477.2
Std Dev 0

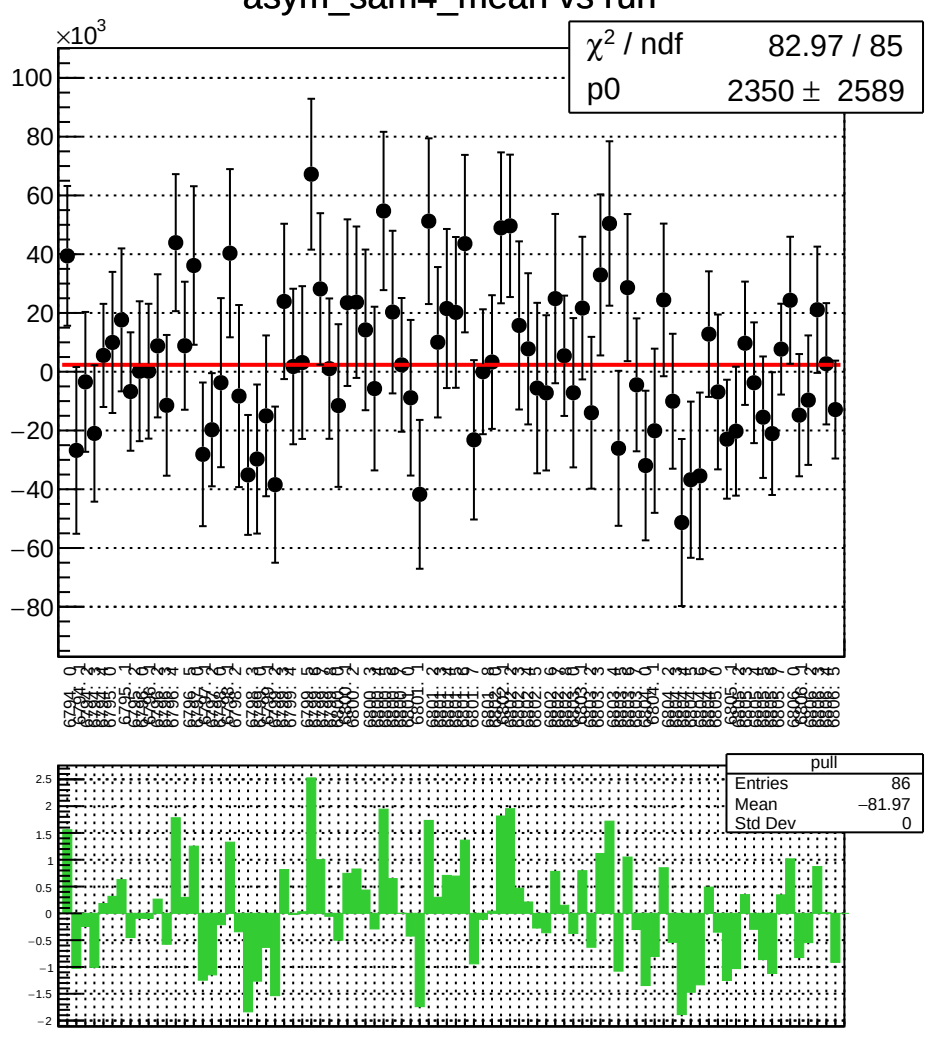

pull1D
Entries 86
Mean 0.01287
Std Dev 0.9598

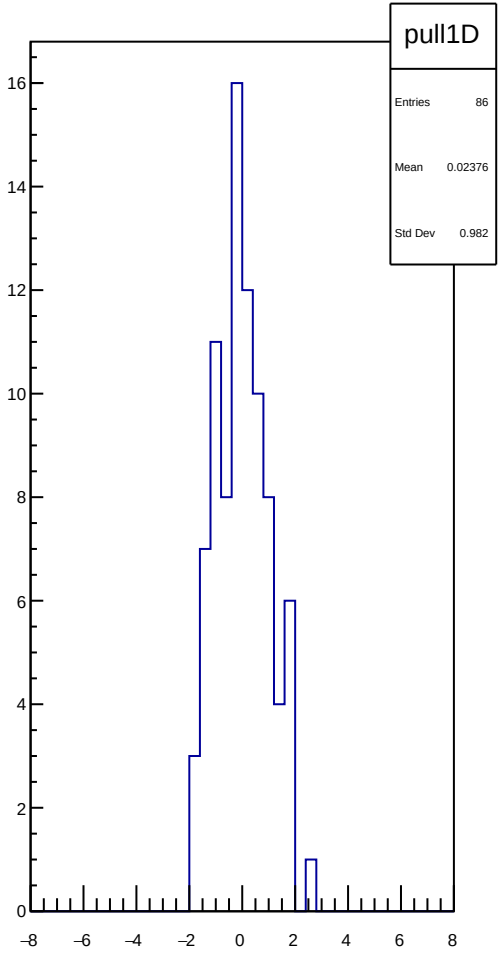

eigen_dit_asym_sam4_rms vs run
χ² / ndf 8574 / 85
p0 331.9 ± 0.2566
500
450
400
350
300

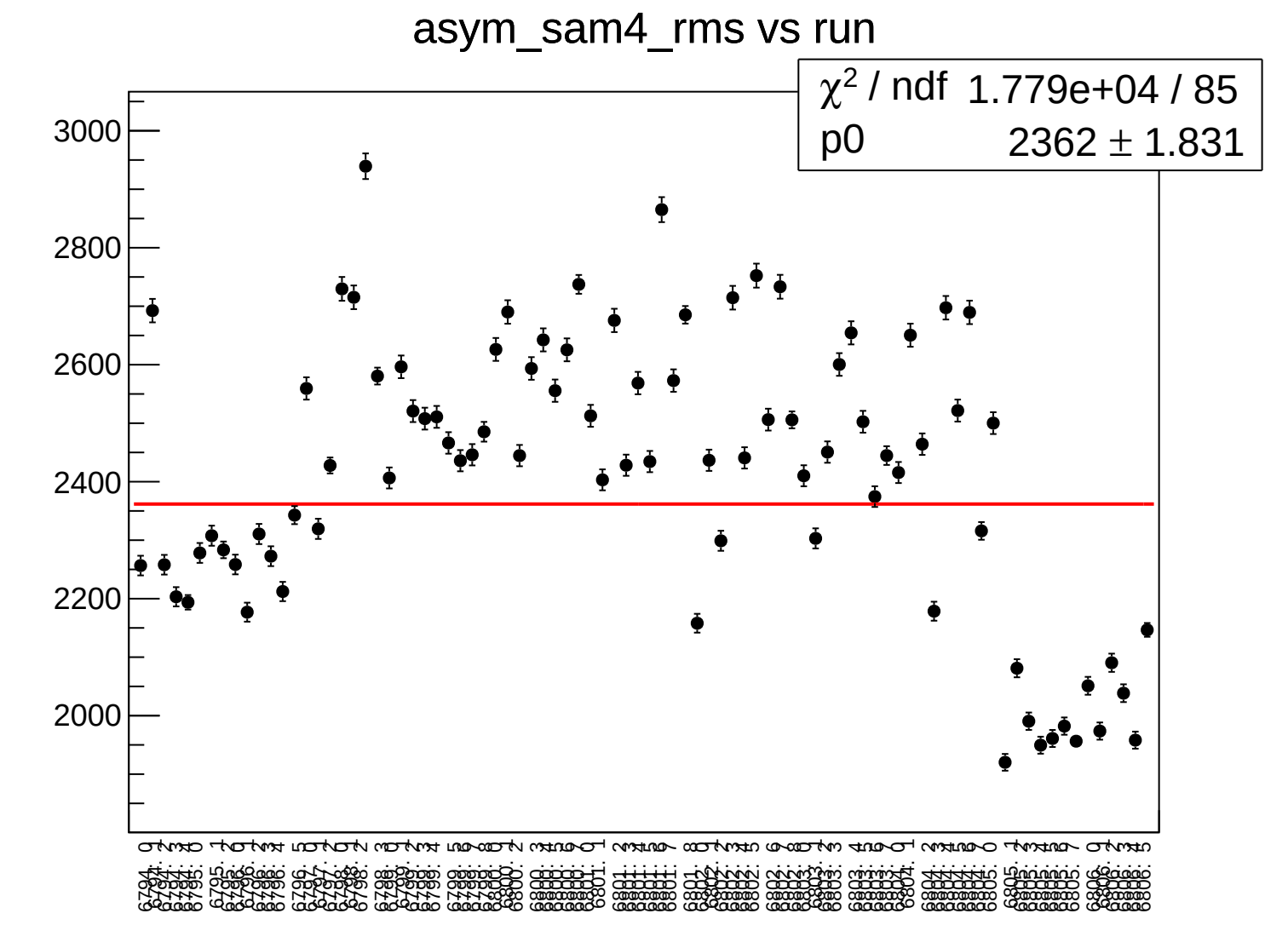

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 80.68 / 85
p0 −3039 ± 2578
100
50
0
−50
−100
pull
Entries 86
Mean −53.43
Std Dev 0
2
1
0
−1
−2

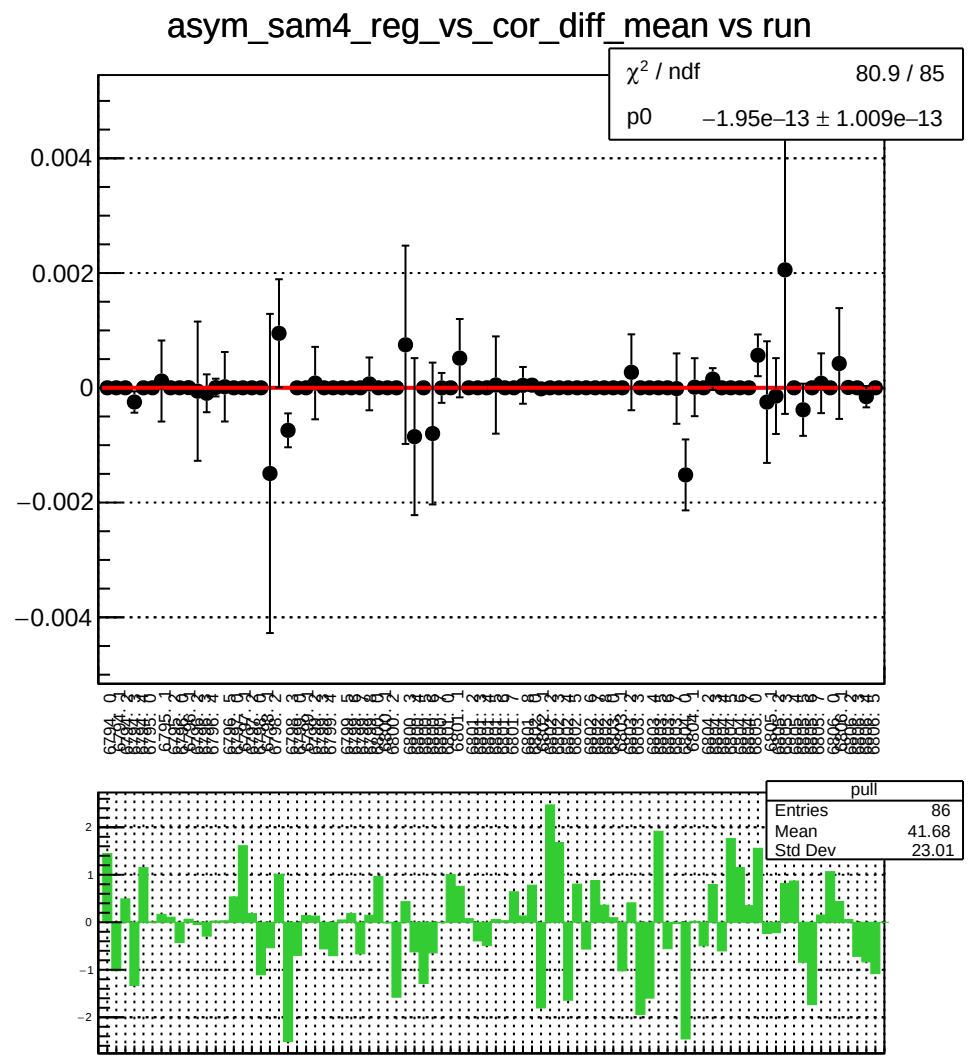

pull1D
Entries 86
Mean −0.02151
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

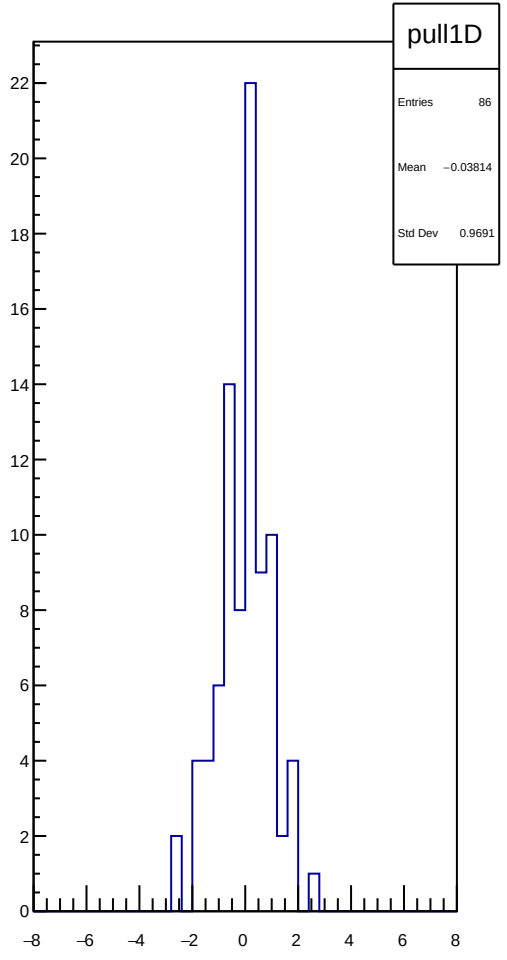

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.812e+04 / 85
p0 2352 ± 1.823
3000
2800
2600
2400
2200
2000
1800

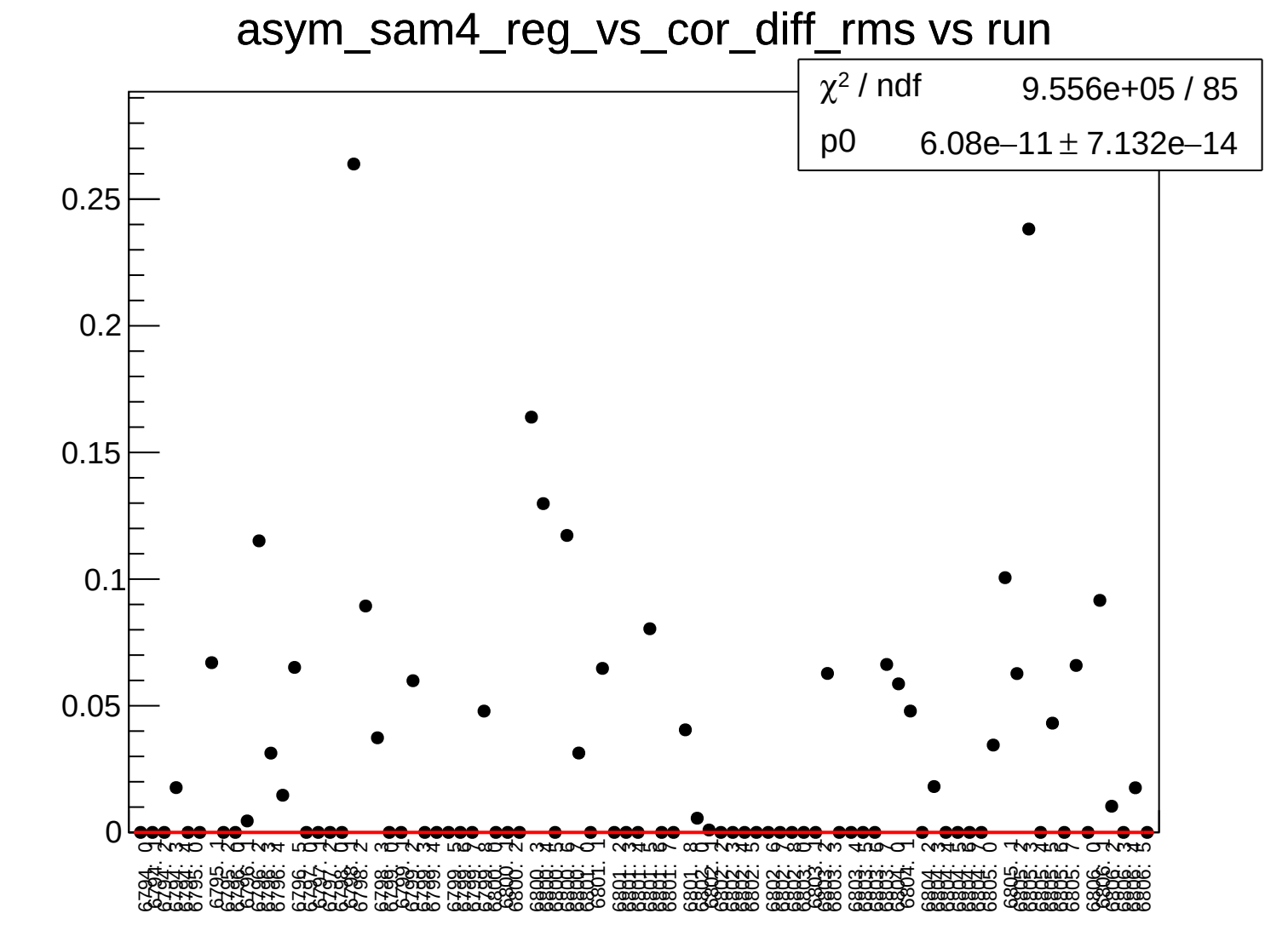

asym_sam4_mean vs run
×10^3
χ² / ndf 82.97 / 85
p0 2350 ± 2589
pull
Entries 86
Mean −81.97
Std Dev 0

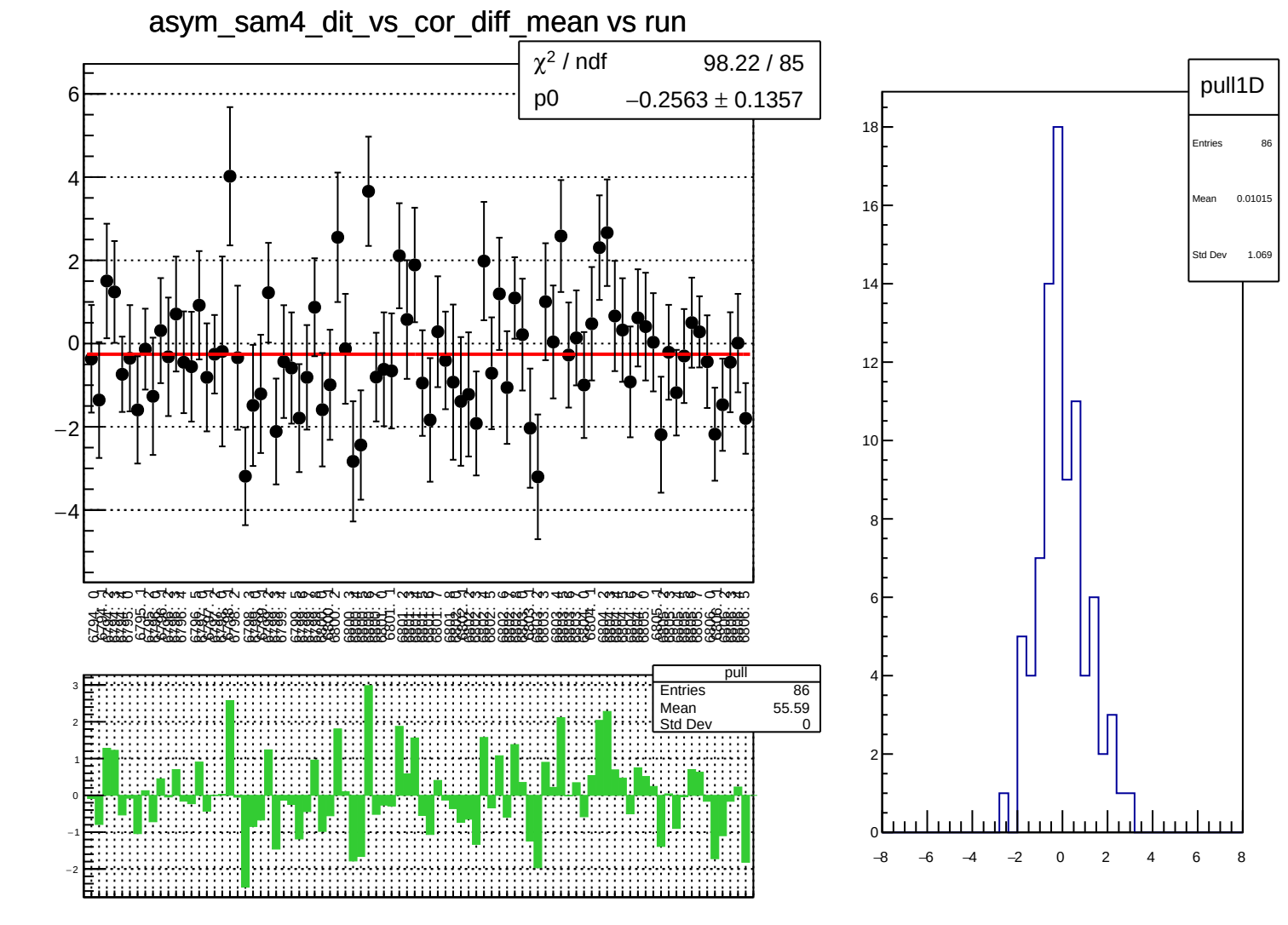

pull1D
Entries 86
Mean 0.02376
Std Dev 0.982

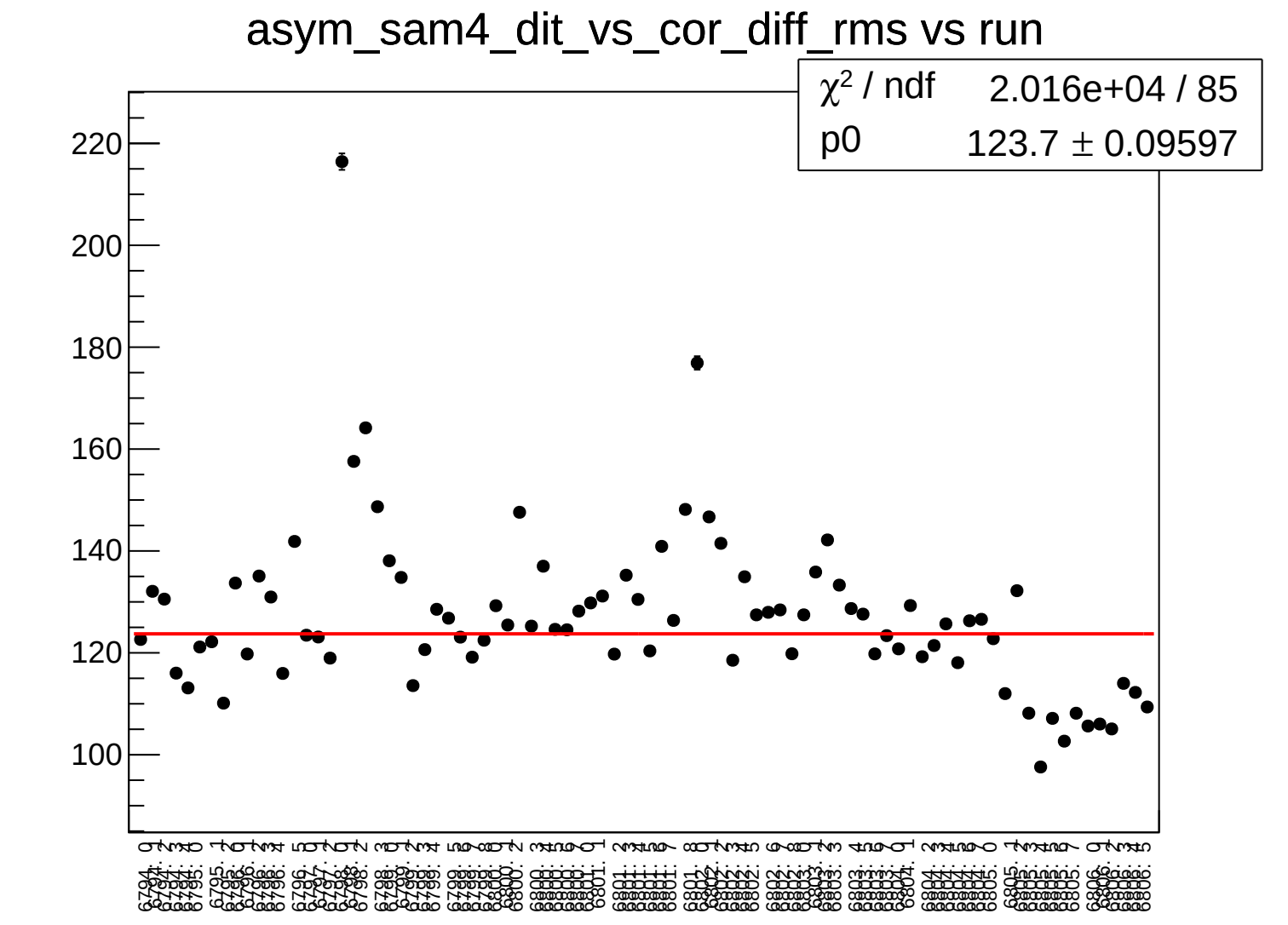

asym_sam4_rms vs run
χ² / ndf 1.779e+04 / 85
p0 2362 ± 1.831
3000
2800
2600
2400
2200
2000

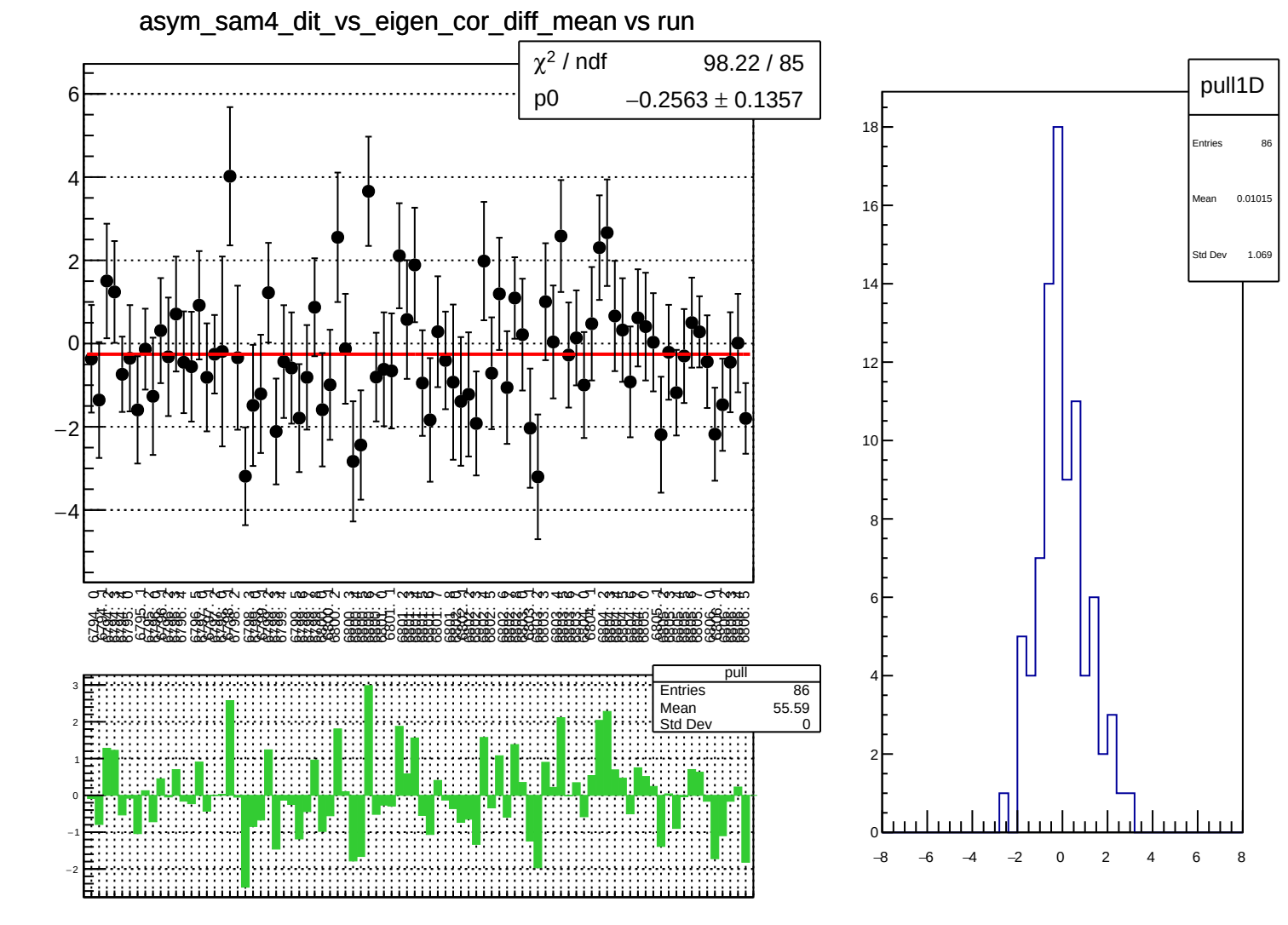

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 80.9 / 85
p0 −1.95e−13 ± 1.009e−13
0.004
0.002
0
−0.002
−0.004
pull
Entries 86
Mean 41.68
Std Dev 23.01
2
1
0
−1
−2

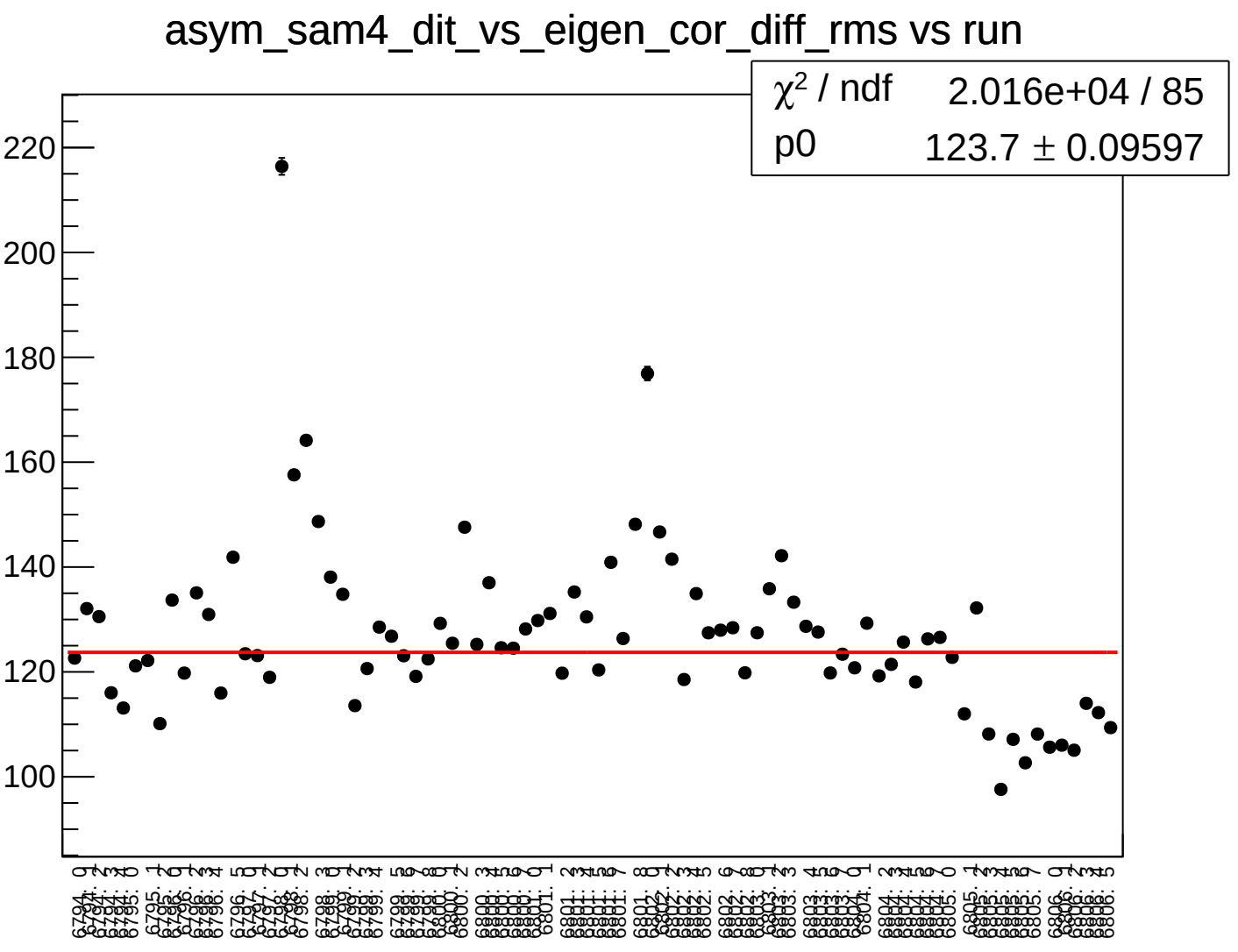

pull1D
Entries 86
Mean −0.03814
Std Dev 0.9691
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

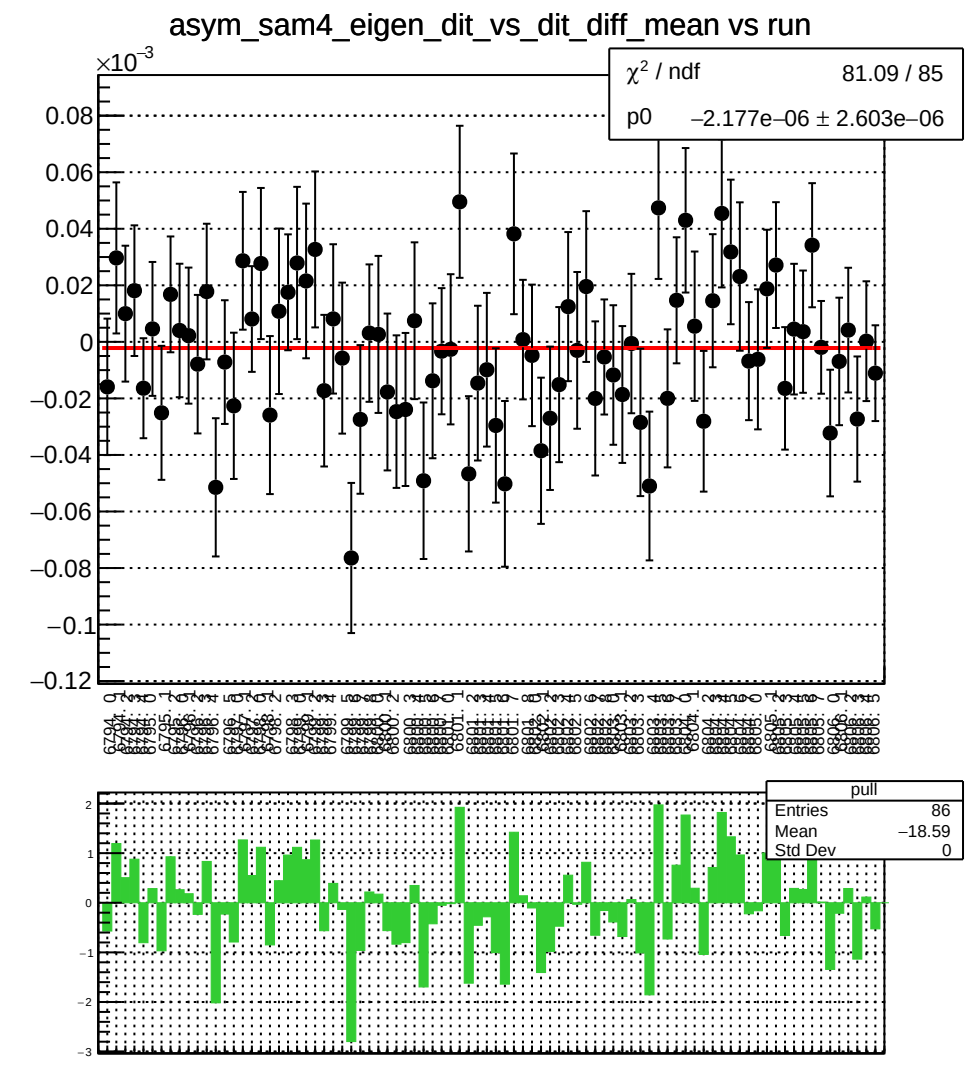

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.556e+05 / 85
p0 6.08e−11 ± 7.132e−14
0.25
0.2
0.15
0.1
0.05
0

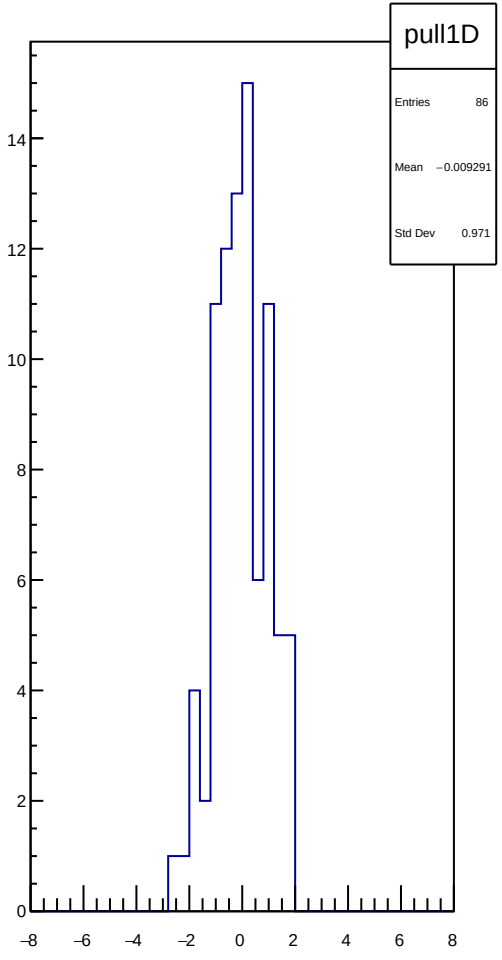

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 85
p0 −0.2563 ± 0.1357
pull
Entries 86
Mean 55.59
Std Dev 0
pull1D
Entries 86
Mean 0.01015
Std Dev 1.069

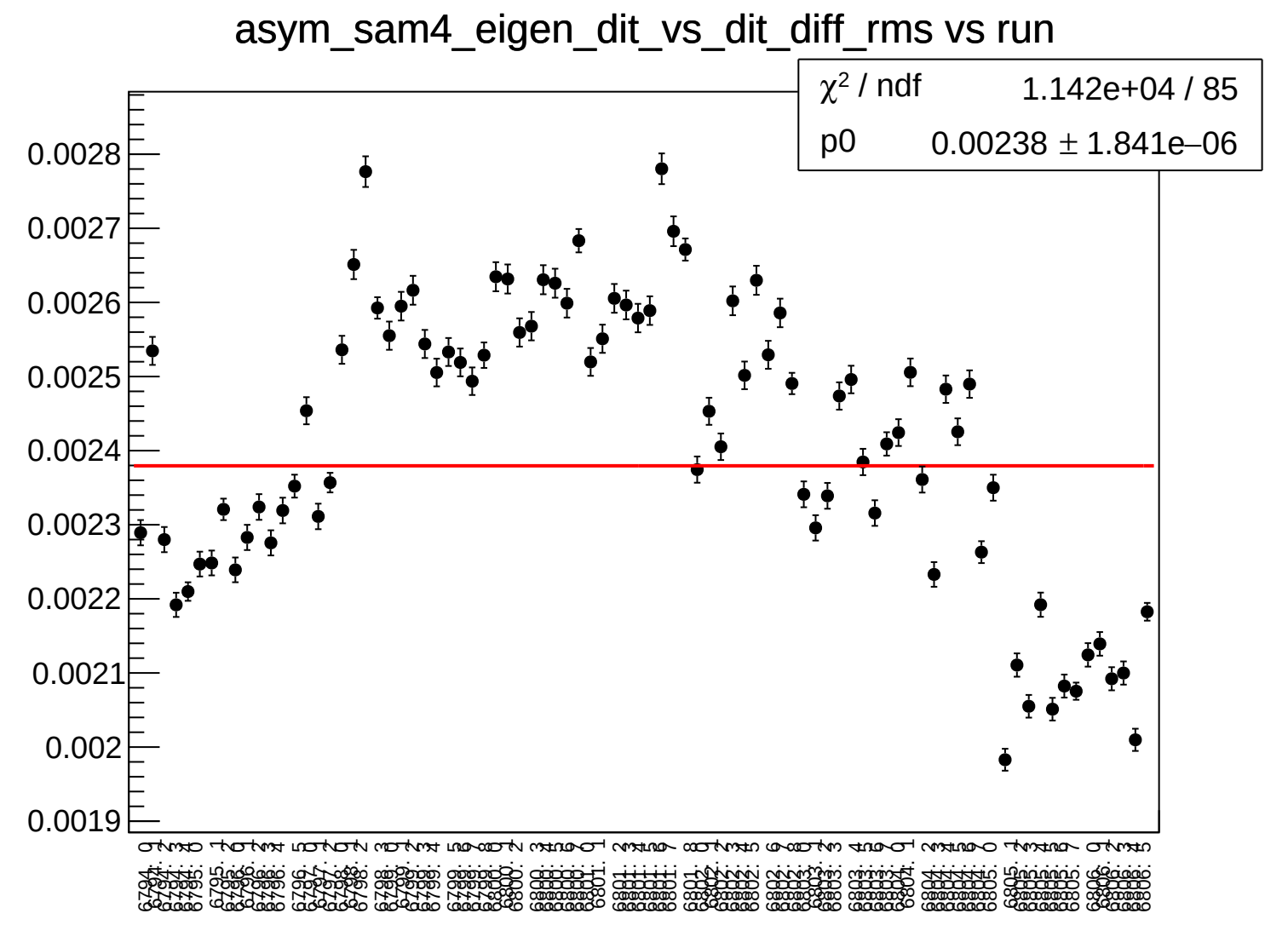

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 2.016e+04 / 85
p0 123.7 ± 0.09597
220
200
180
160
140
120
100

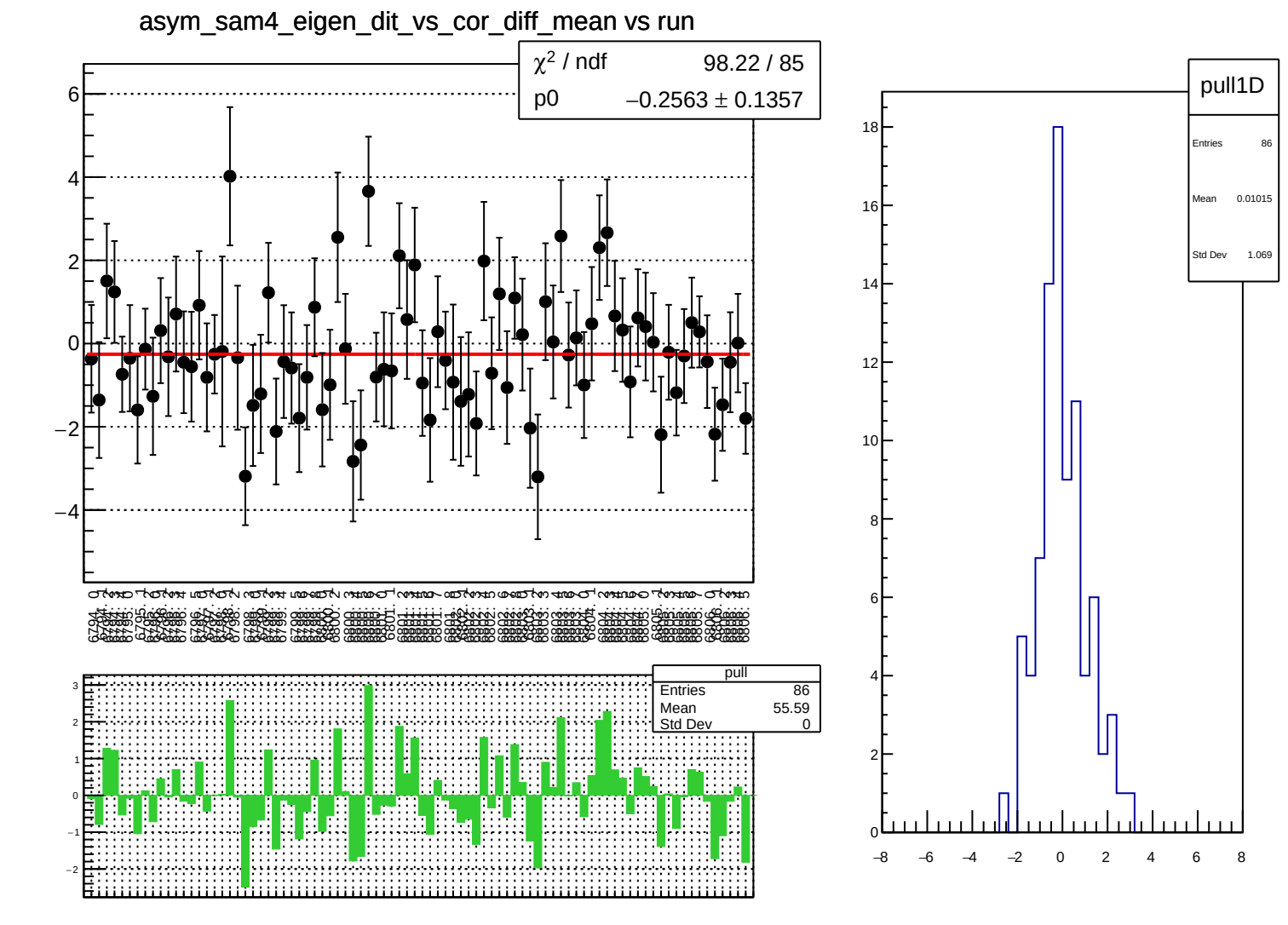

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.22 / 85
p0 −0.2563 ± 0.1357
pull
Entries 86
Mean 55.59
Std Dev 0
pull1D
Entries 86
Mean 0.01015
Std Dev 1.069

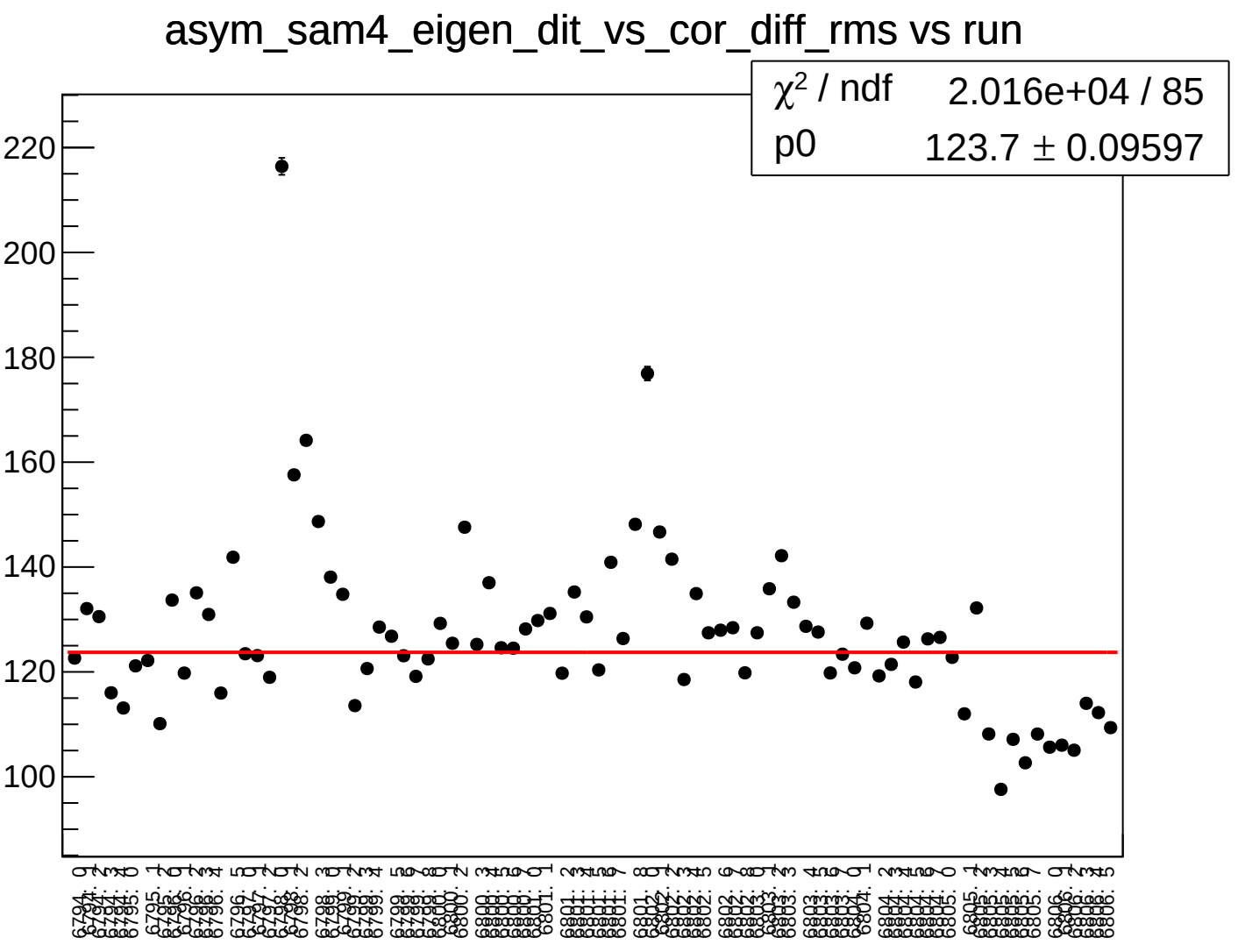

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.016e+04 / 85
p0 123.7 ± 0.09597
220
200
180
160
140
120
100

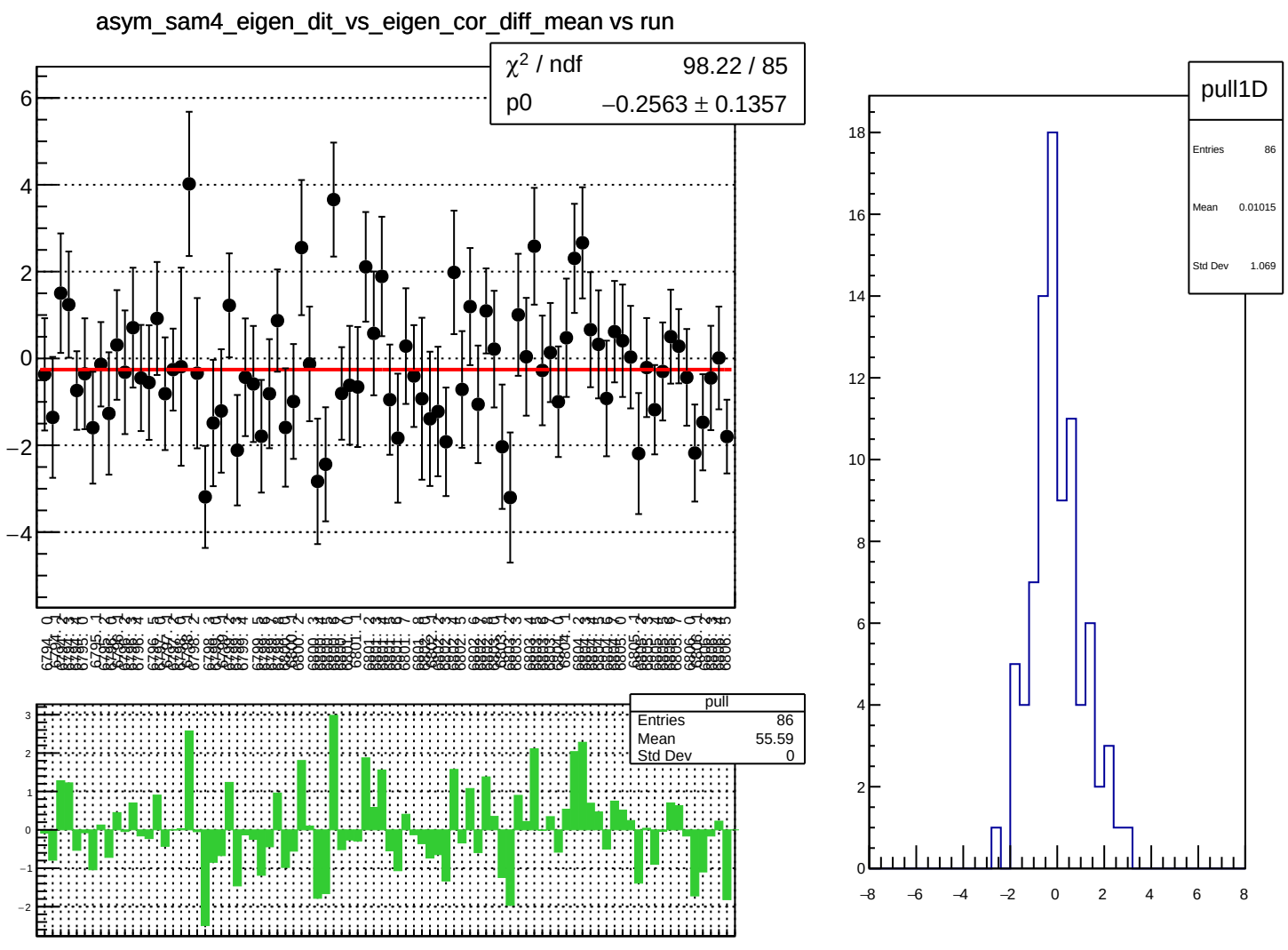

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.09 / 85
p0 −2.177e−06 ± 2.603e−06
pull
Entries 86
Mean −18.59
Std Dev 0

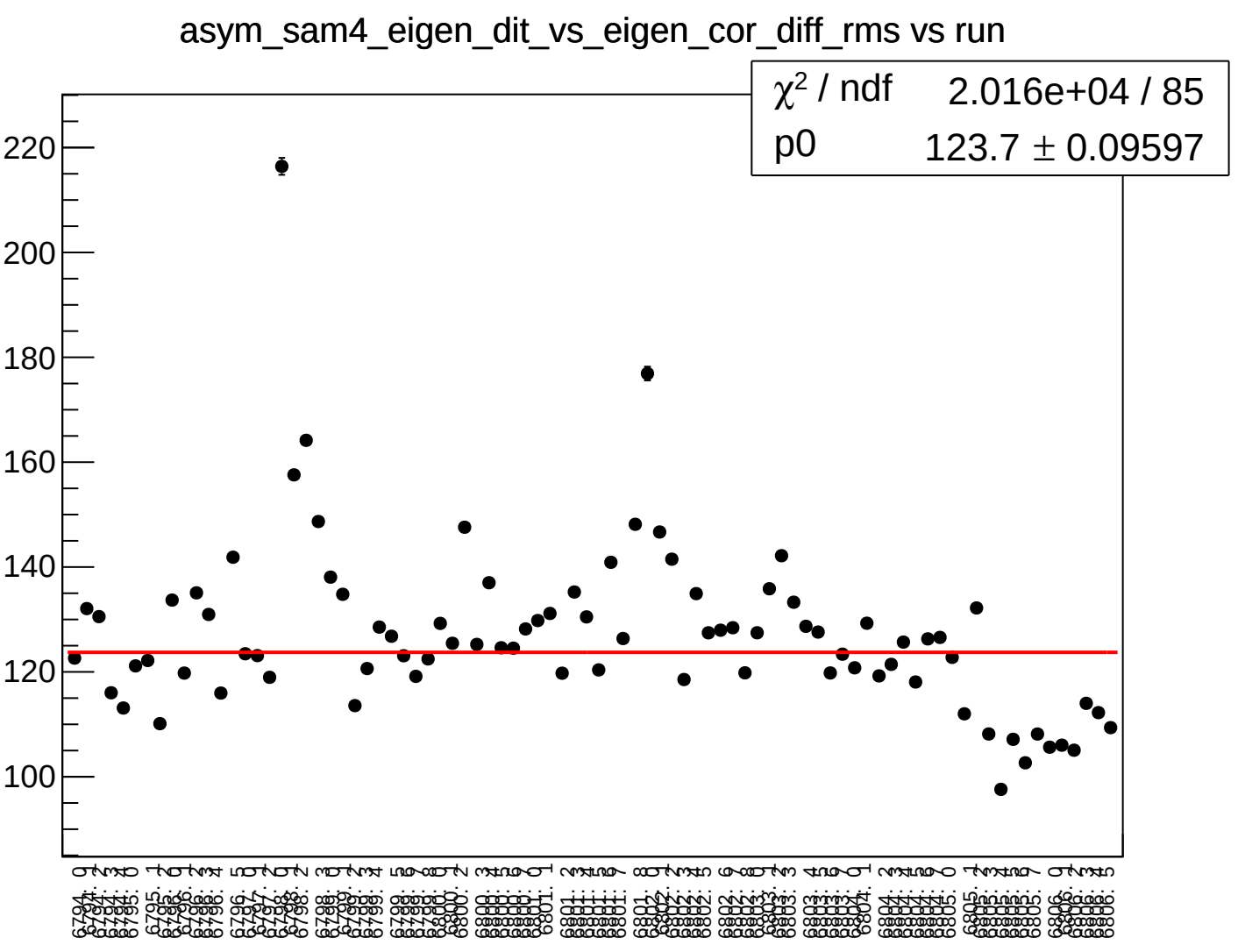

pull1D
Entries 86
Mean −0.009291
Std Dev 0.971

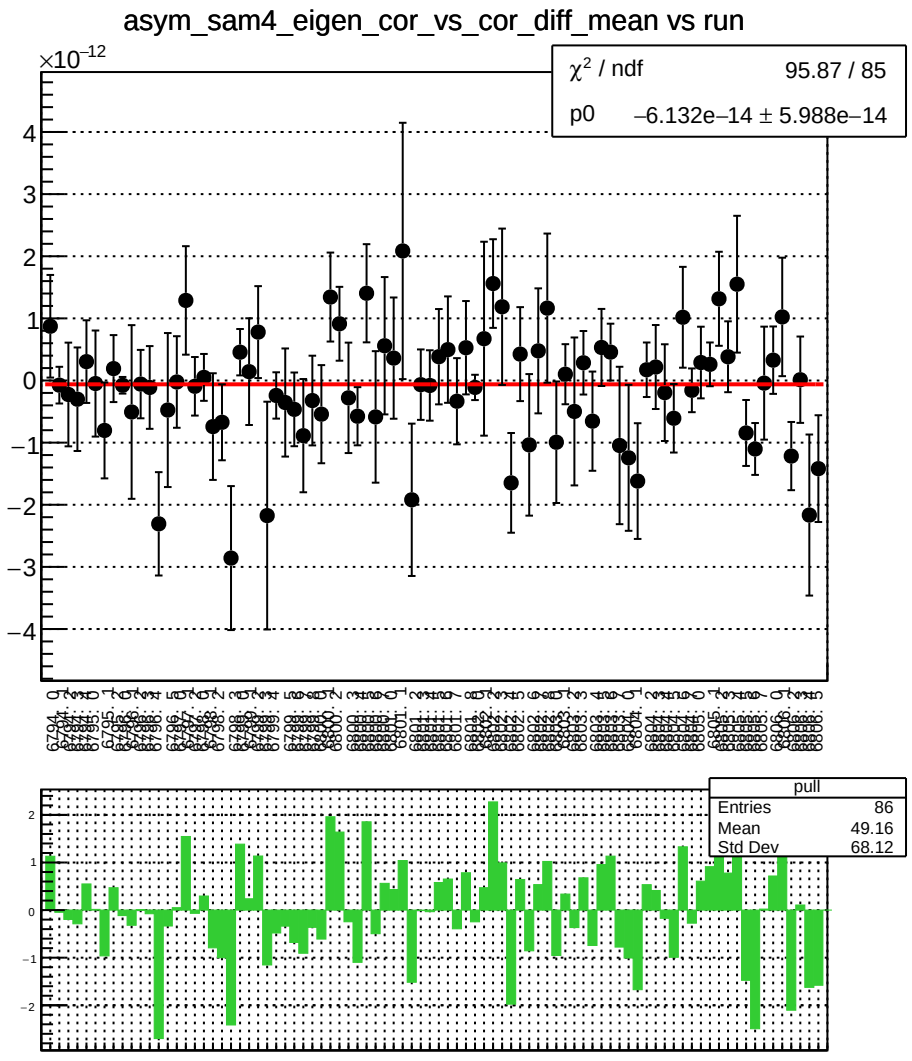

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.142e+04 / 85
p0 0.00238 ± 1.841e–06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

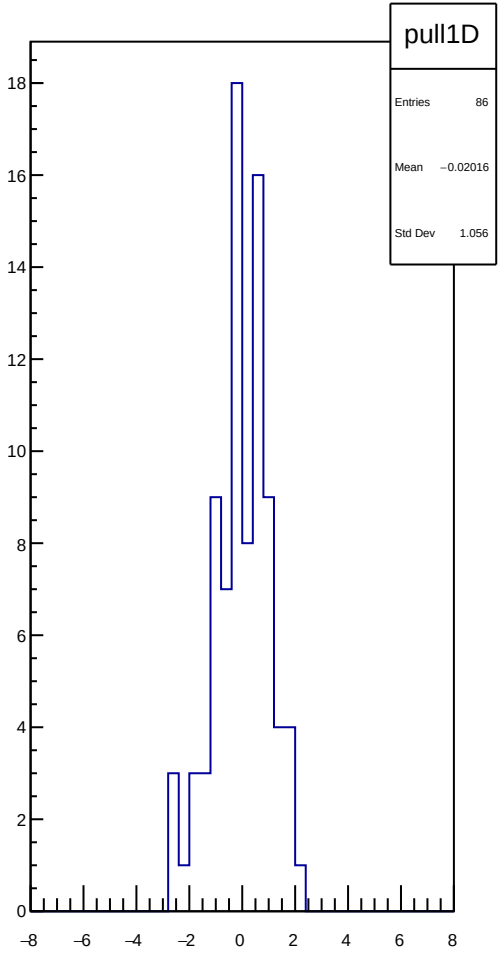

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.22 / 85
p0 −0.2563 ± 0.1357
pull
Entries 86
Mean 55.59
Std Dev 0
pull1D
Entries 86
Mean 0.01015
Std Dev 1.069

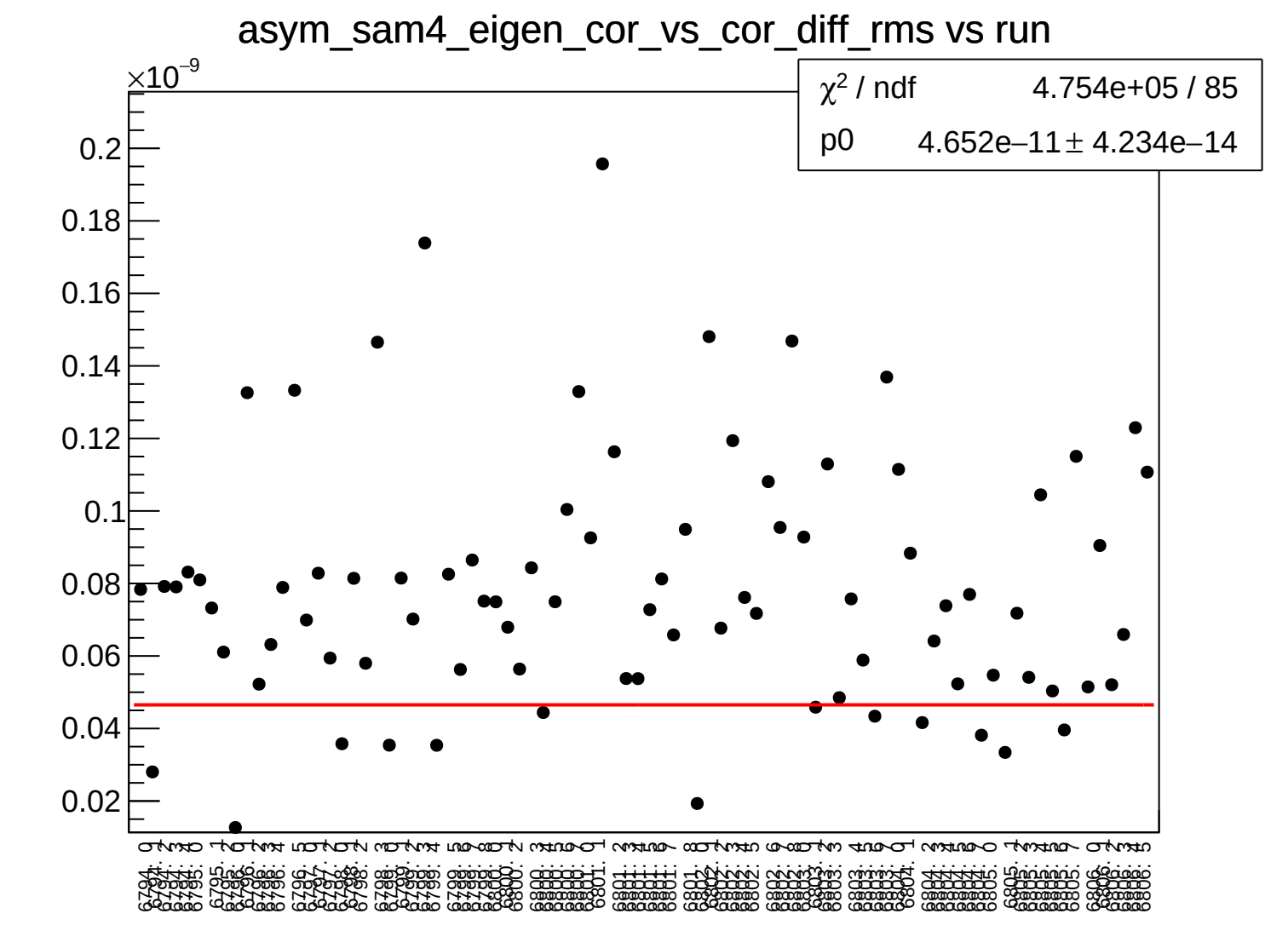

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.016e+04 / 85
p0 123.7 ± 0.09597
220
200
180
160
140
120
100

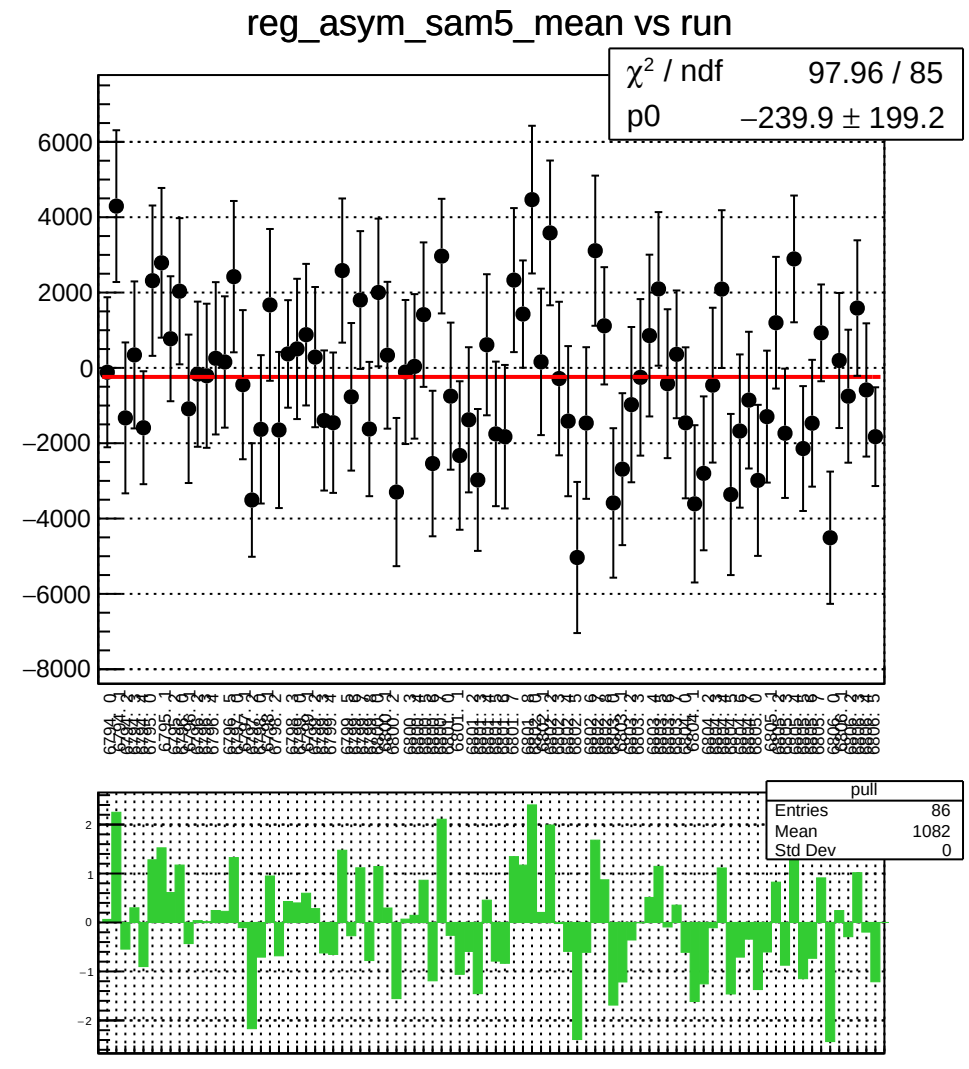

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.22 / 85
p0 −0.2563 ± 0.1357
pull
Entries 86
Mean 55.59
Std Dev 0
pull1D
Entries 86
Mean 0.01015
Std Dev 1.069

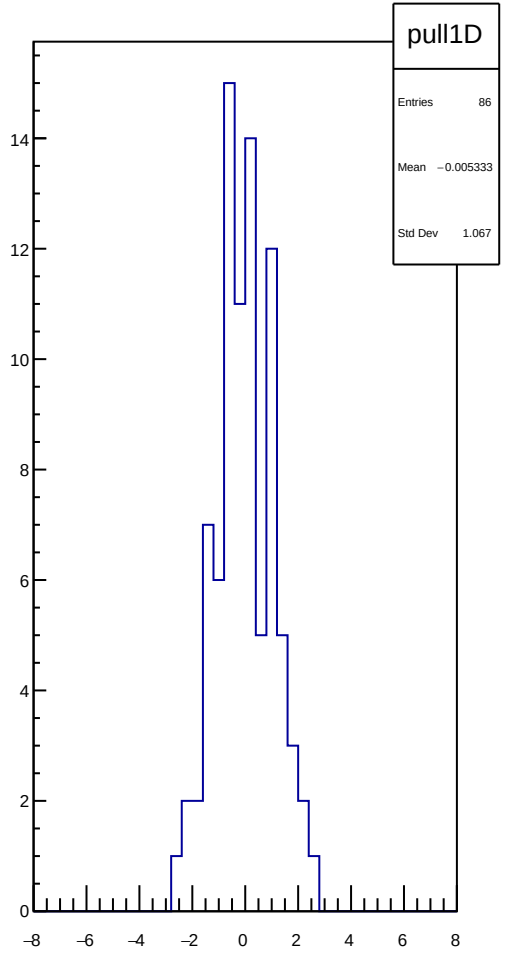

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.016e+04 / 85
p0 123.7 ± 0.09597
220
200
180
160
140
120
100

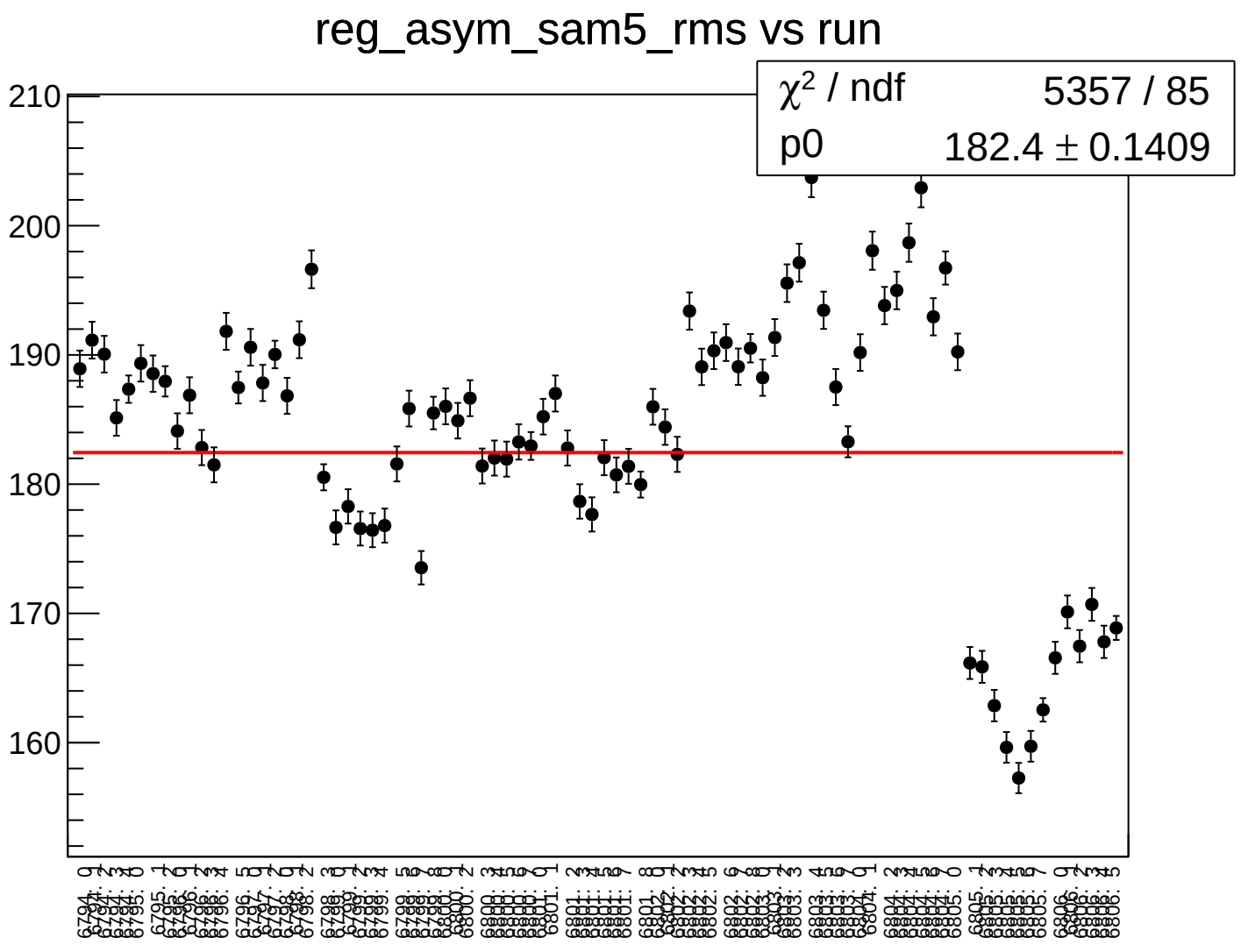

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.87 / 85
p0 −6.132e−14 ± 5.988e−14
pull
Entries 86
Mean 49.16
Std Dev 68.12

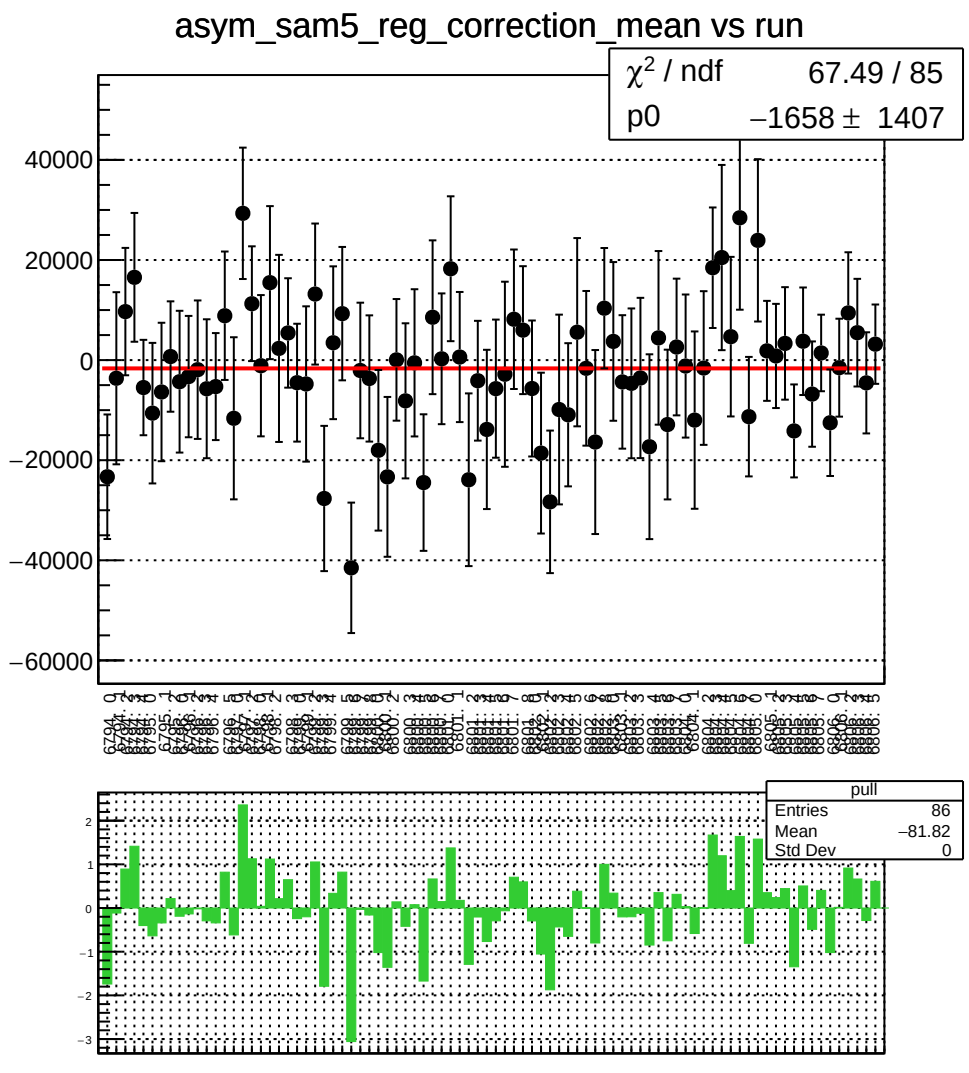

pull1D
Entries 86
Mean −0.02016
Std Dev 1.056

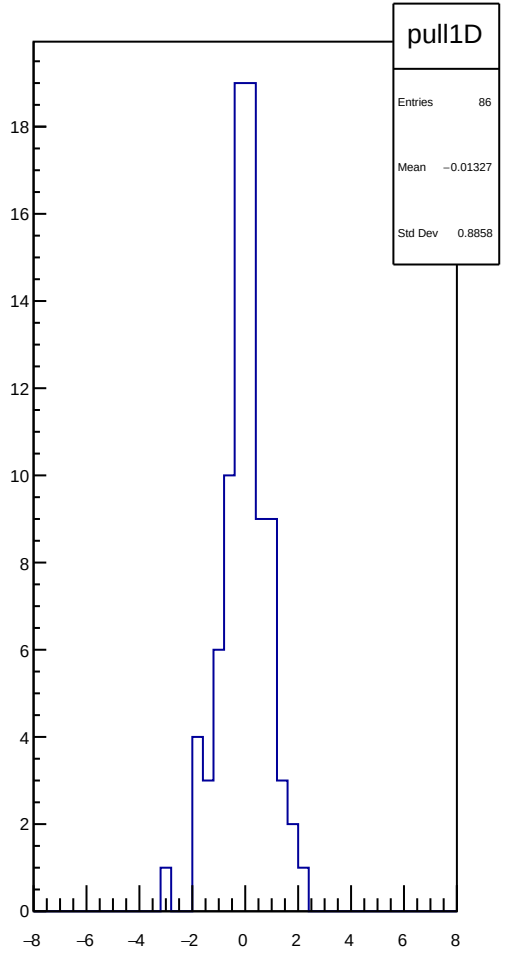

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.754e+05 / 85
p0 4.652e−11 ± 4.234e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

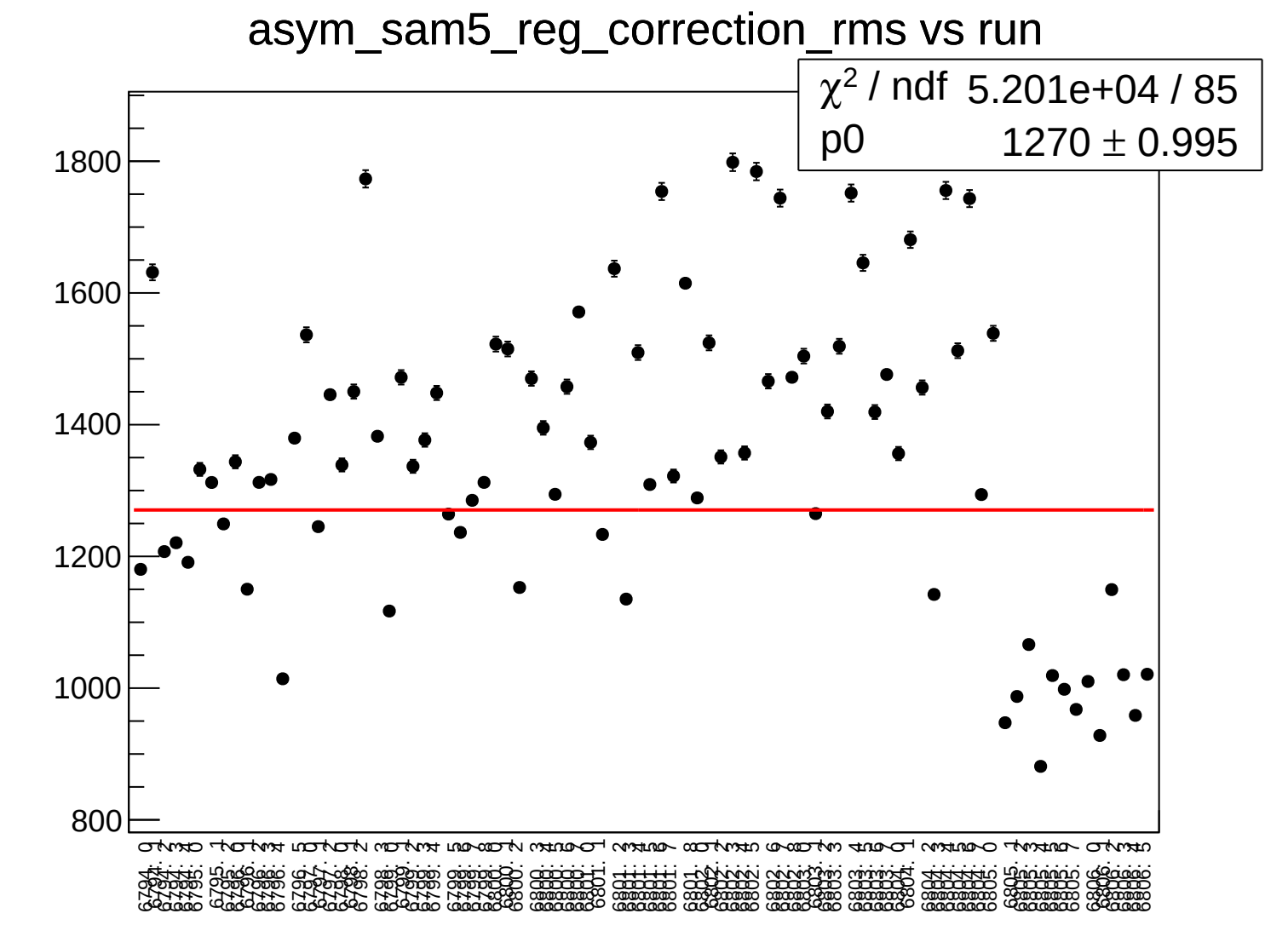

reg_asym_sam5_mean vs run
χ² / ndf 97.96 / 85
p0 −239.9 ± 199.2
pull
Entries 86
Mean 1082
Std Dev 0

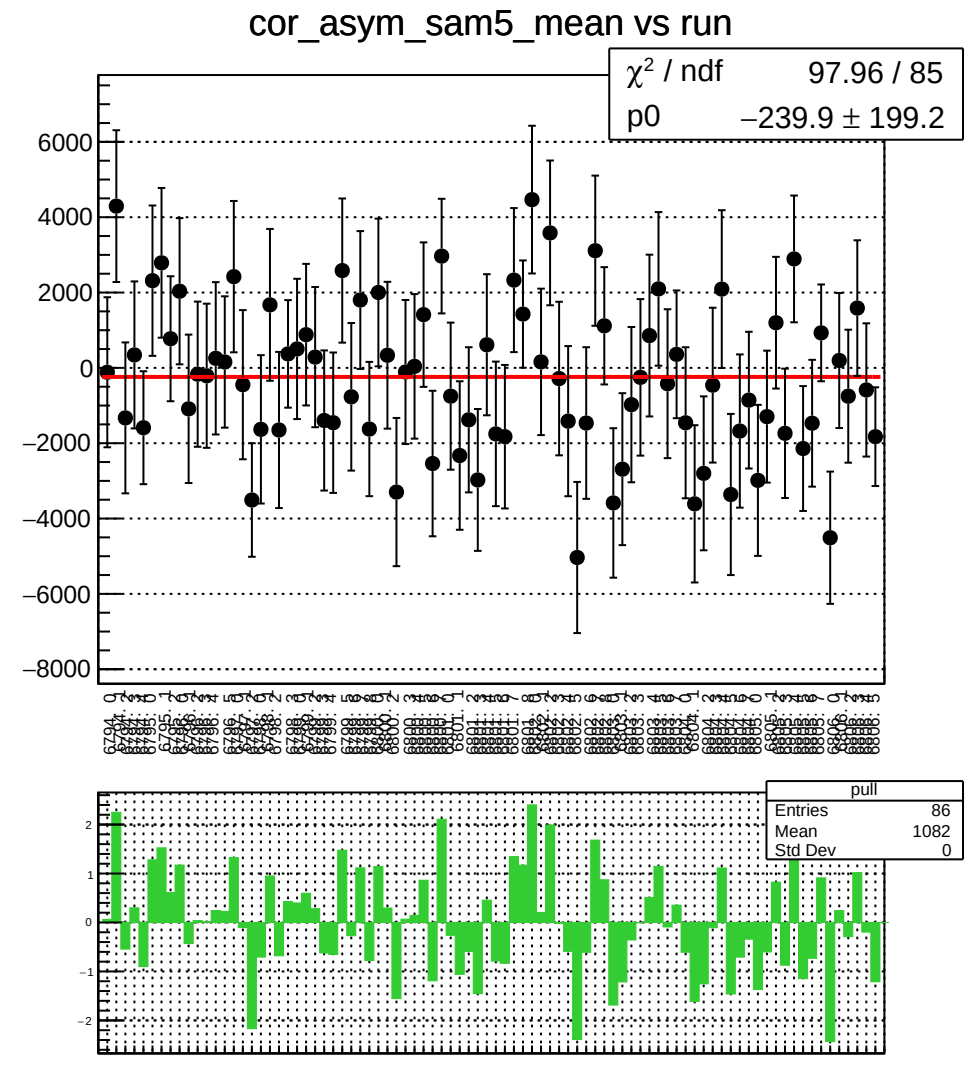

pull1D
Entries 86
Mean −0.005333
Std Dev 1.067

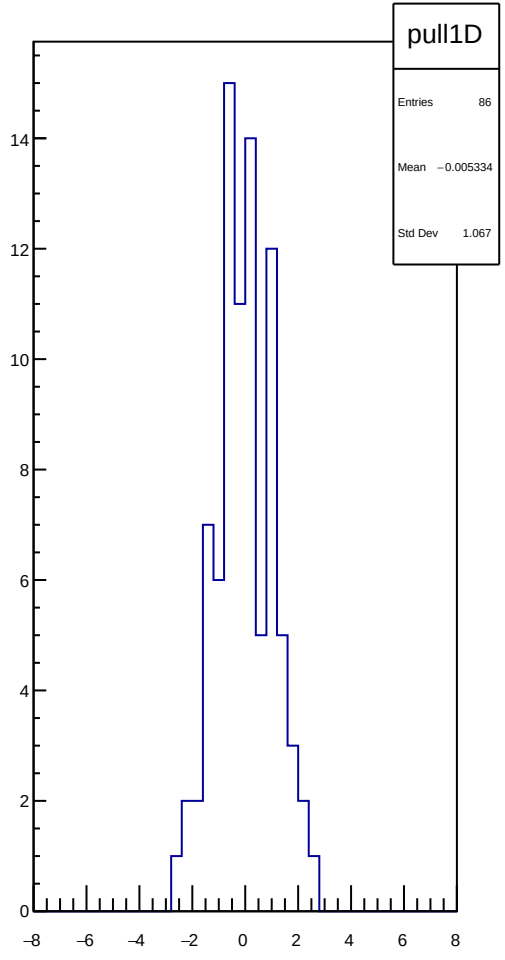

reg_asym_sam5_rms vs run
χ² / ndf 5357 / 85
p0 182.4 ± 0.1409
210
200
190
180
170
160

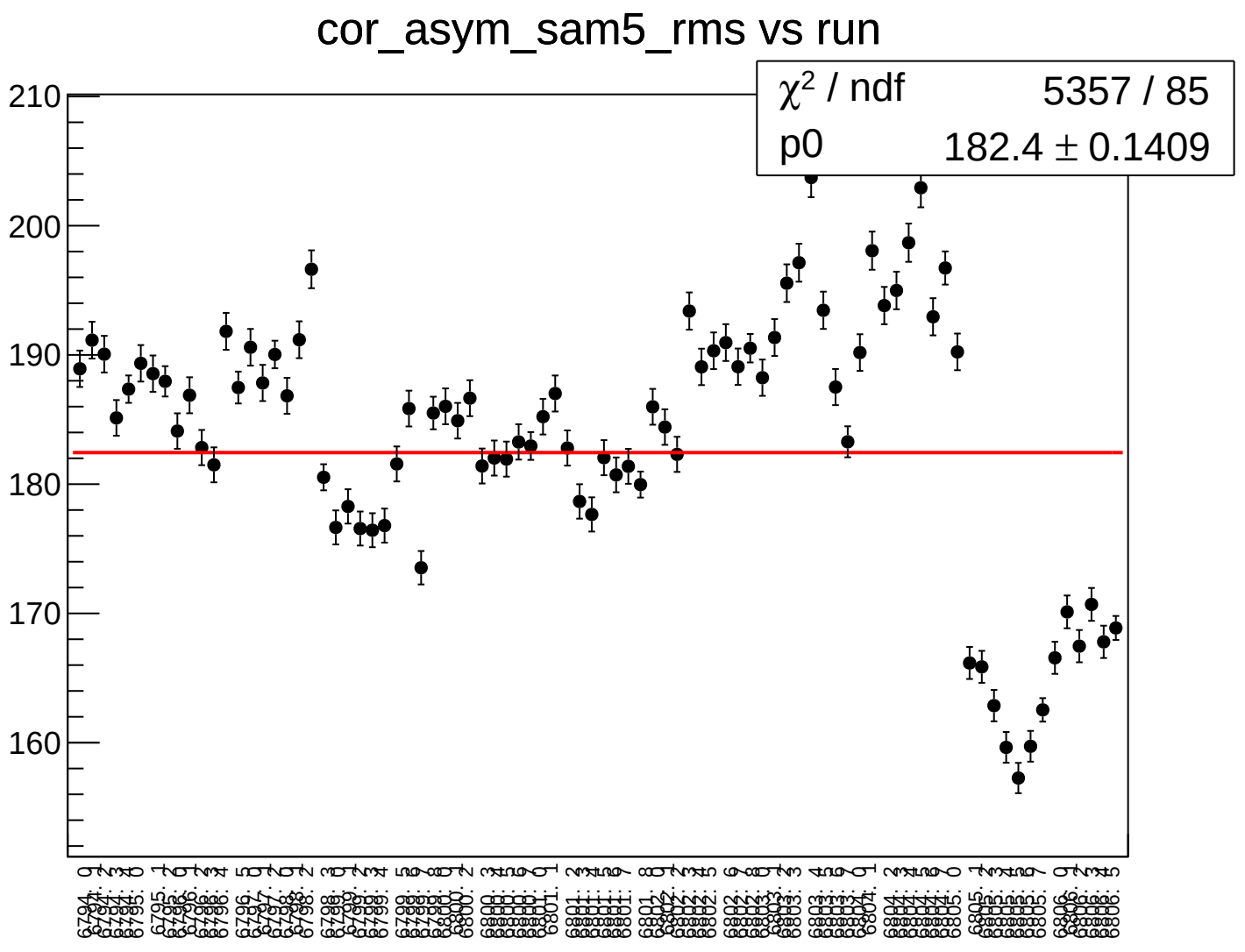

asym_sam5_reg_correction_mean vs run
χ² / ndf 67.49 / 85
p0 −1658 ± 1407
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −81.82
Std Dev 0
2
1
0
−1
−2
−3

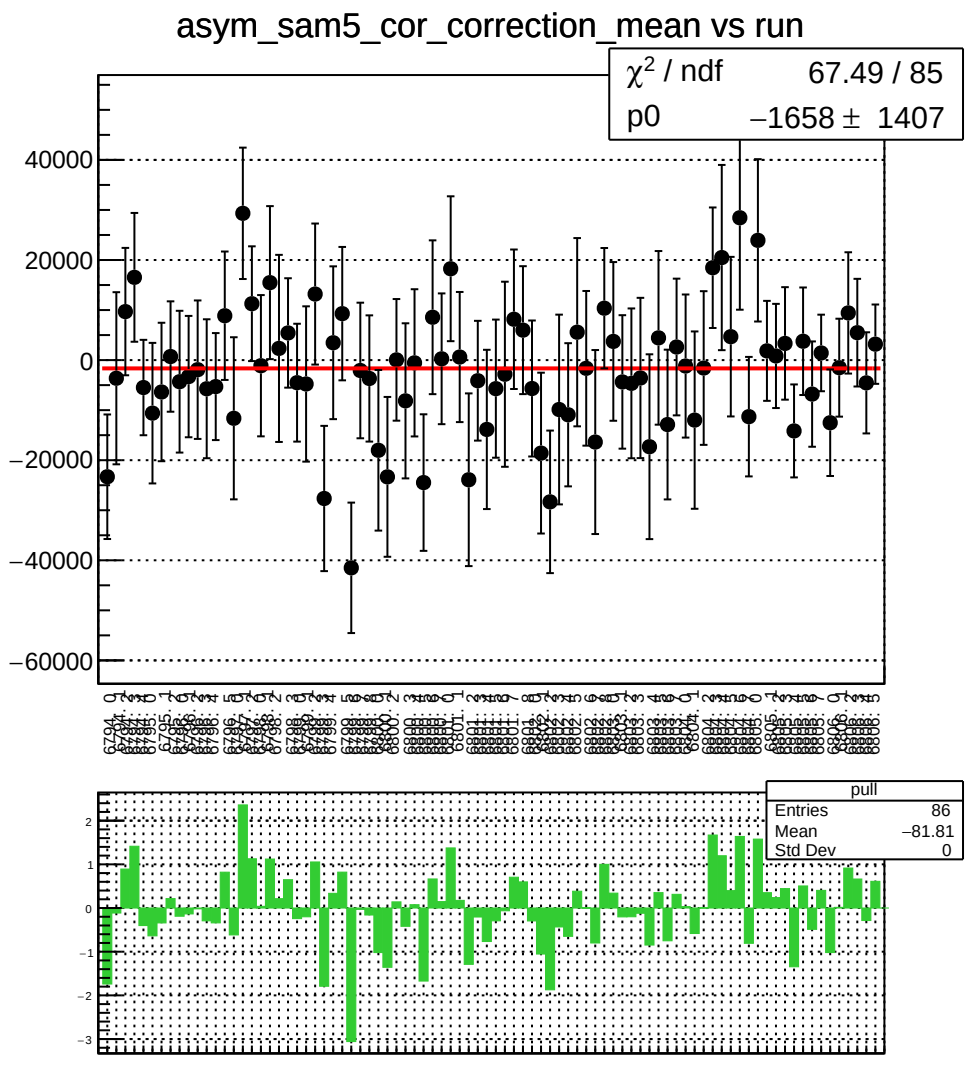

pull1D
Entries 86
Mean −0.01327
Std Dev 0.8858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

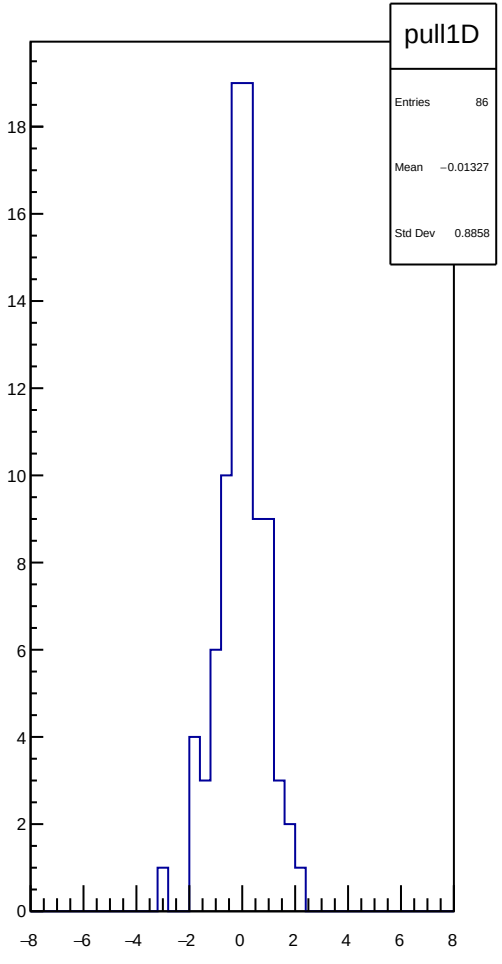

asym_sam5_reg_correction_rms vs run
χ² / ndf 5.201e+04 / 85
p0 1270 ± 0.995
1800
1600
1400
1200
1000
800

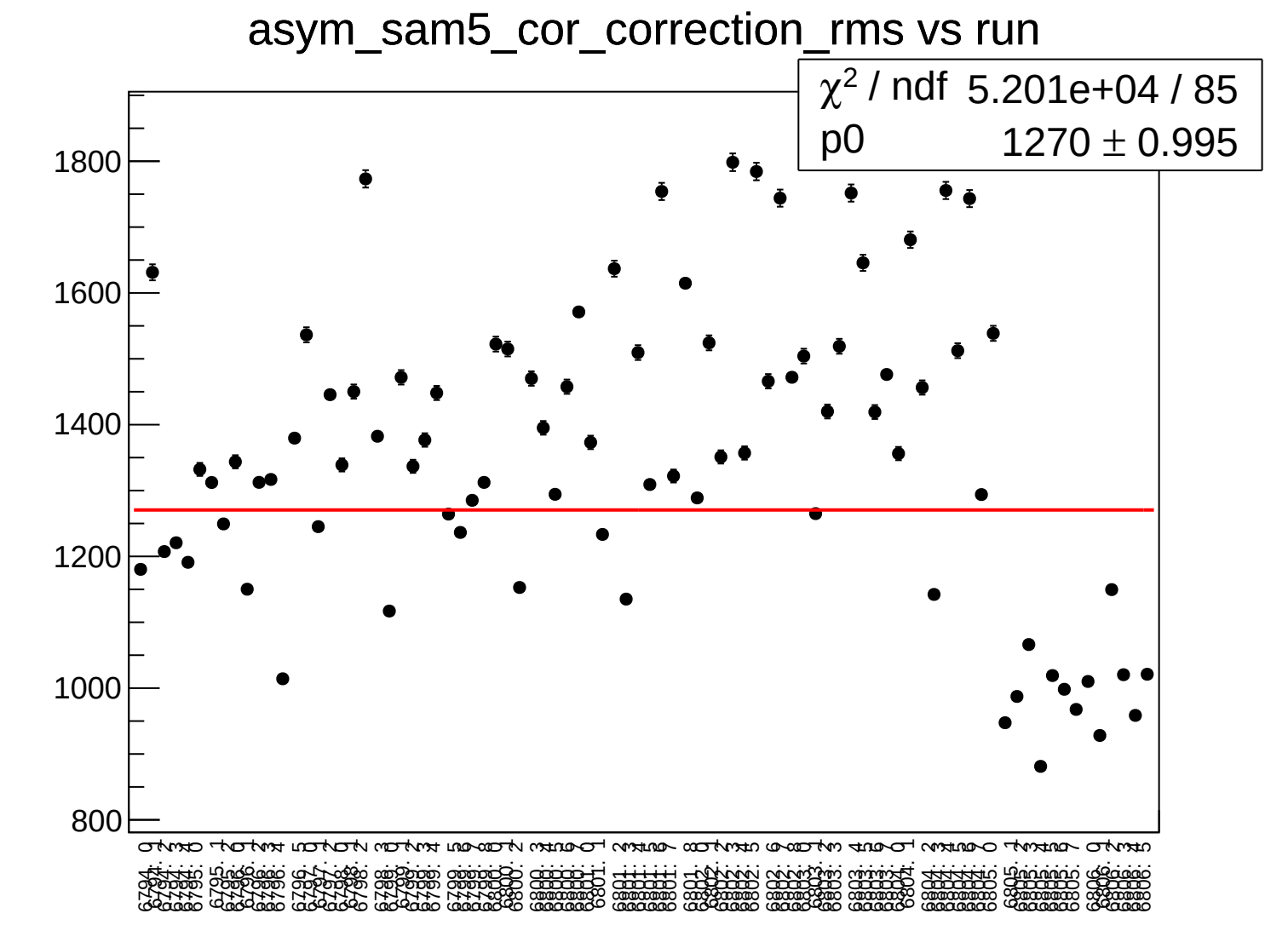

cor_asym_sam5_mean vs run
χ² / ndf 97.96 / 85
p0 −239.9 ± 199.2
pull
Entries 86
Mean 1082
Std Dev 0

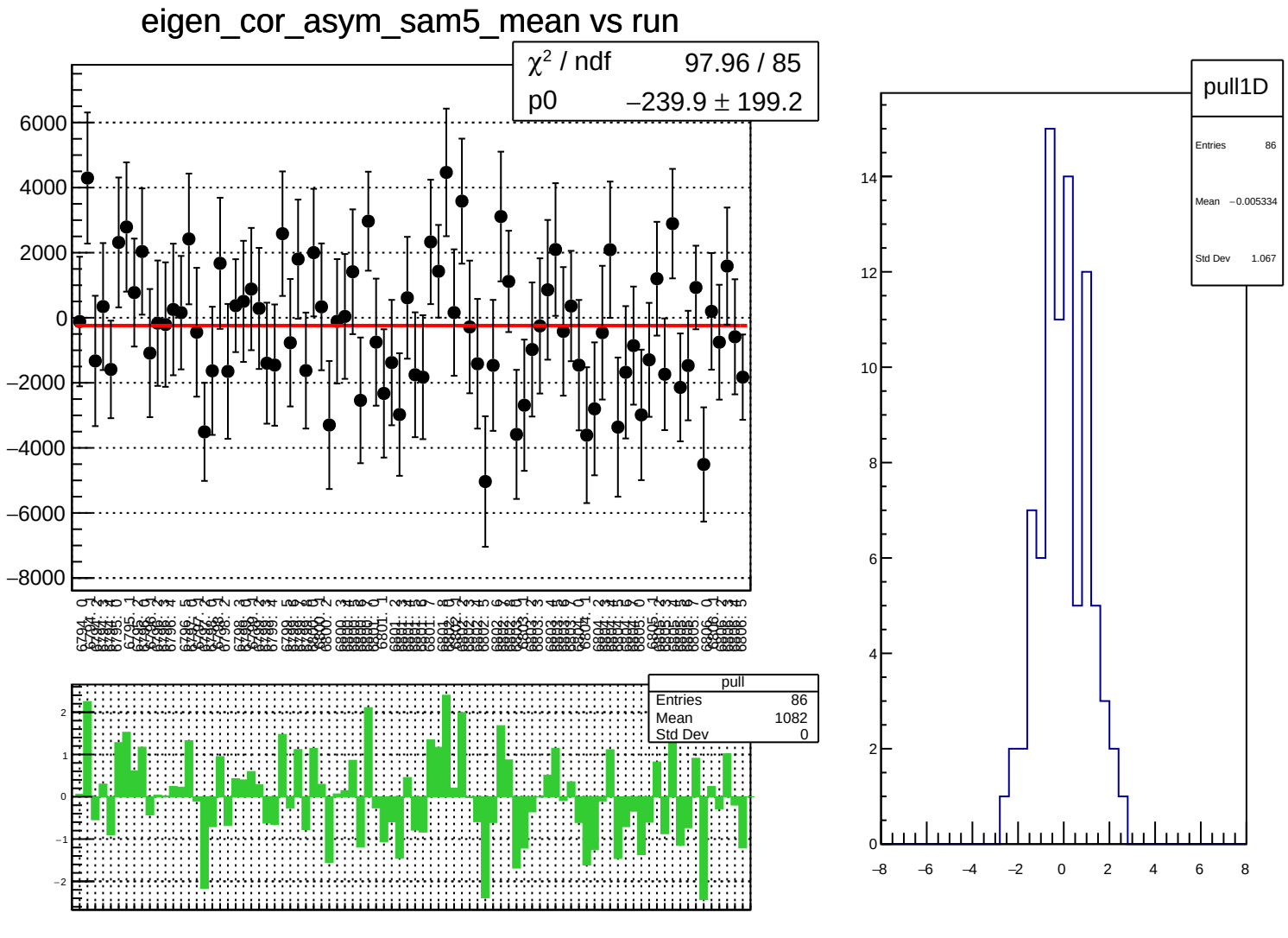

pull1D
Entries 86
Mean −0.005334
Std Dev 1.067

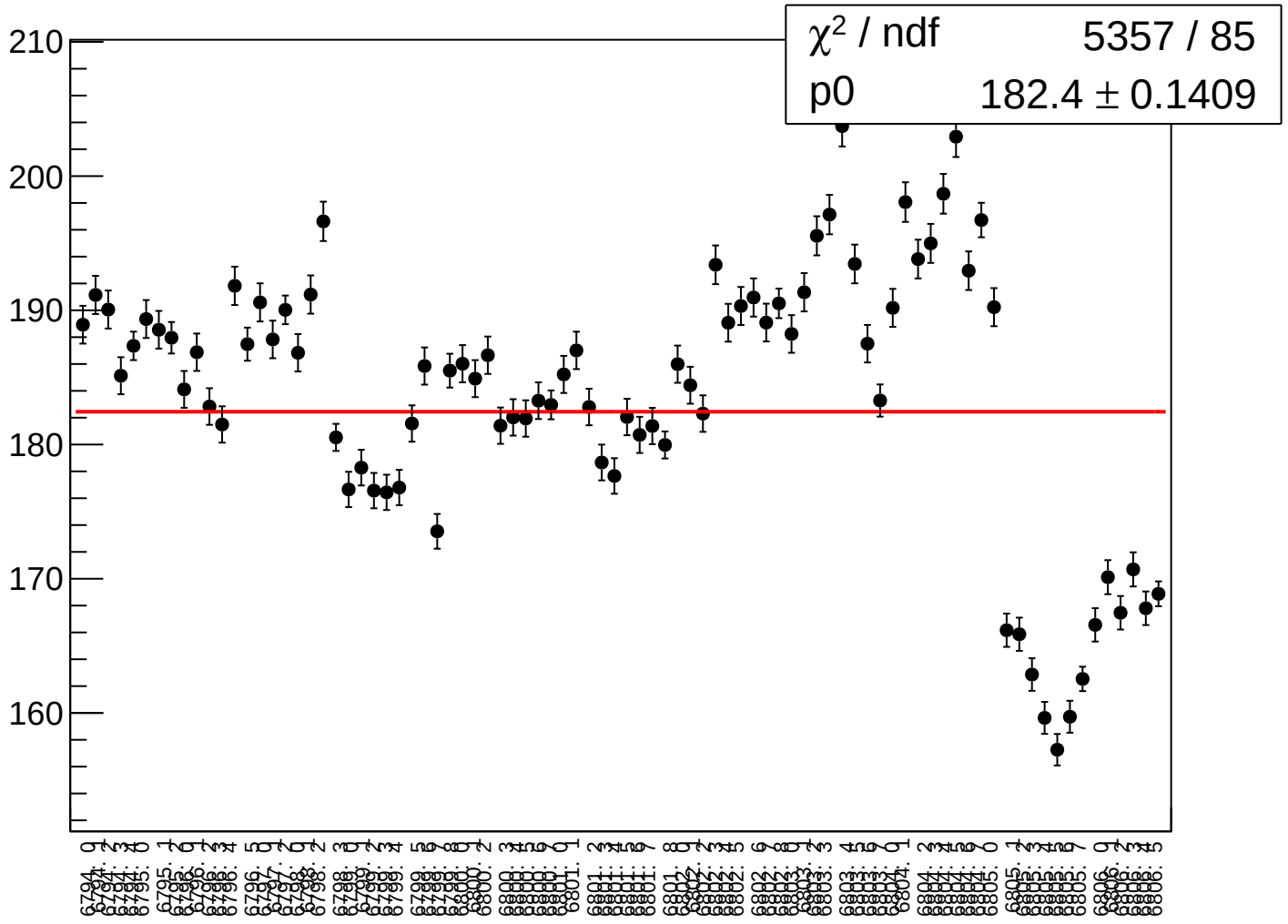

cor_asym_sam5_rms vs run
χ^2 / ndf 5357 / 85
p0 182.4 ± 0.1409
210
200
190
180
170
160

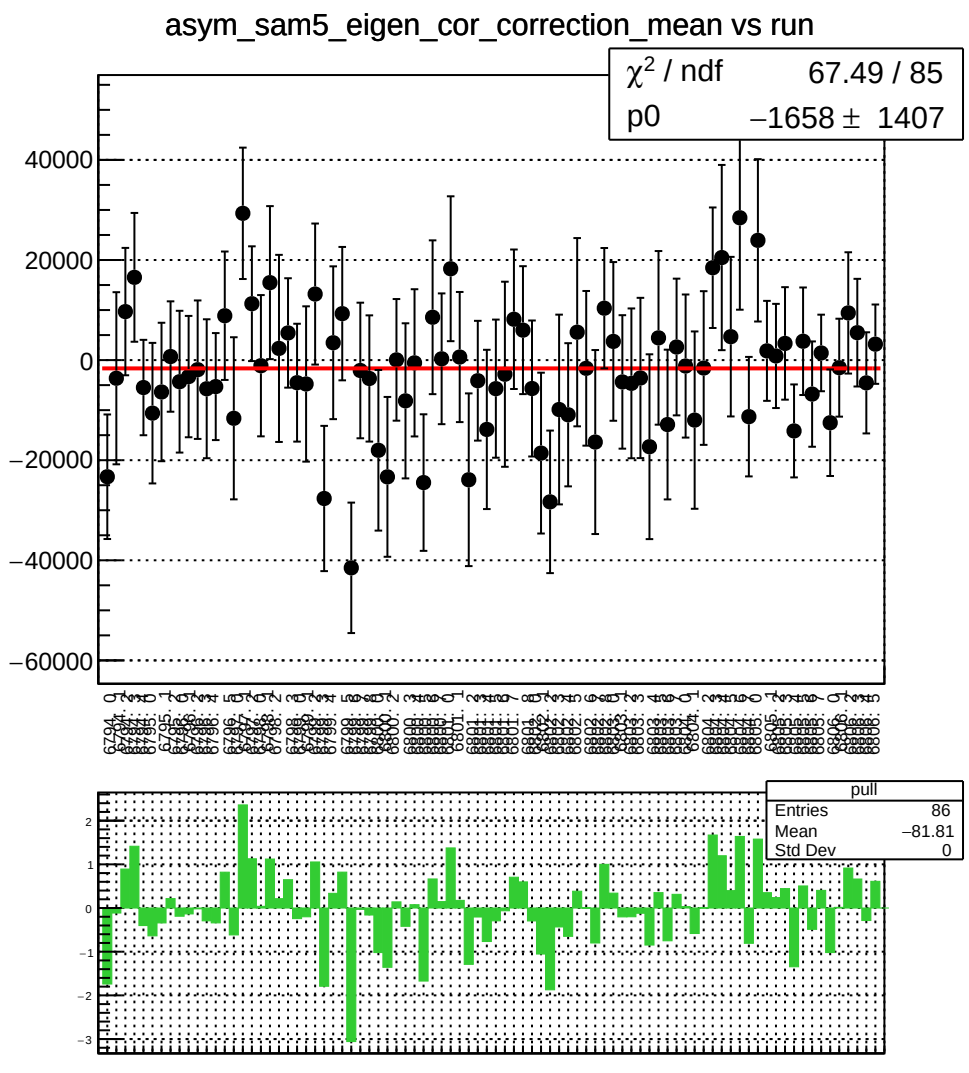

asym_sam5_cor_correction_mean vs run
χ² / ndf 67.49 / 85
p0 −1658 ± 1407
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −81.81
Std Dev 0
2
1
0
−1
−2
−3

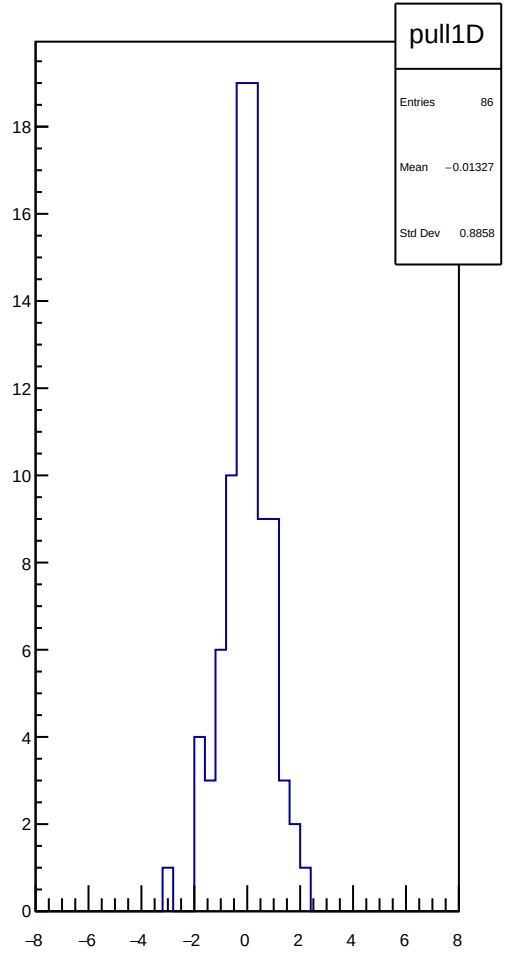

pull1D
Entries 86
Mean −0.01327
Std Dev 0.8858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

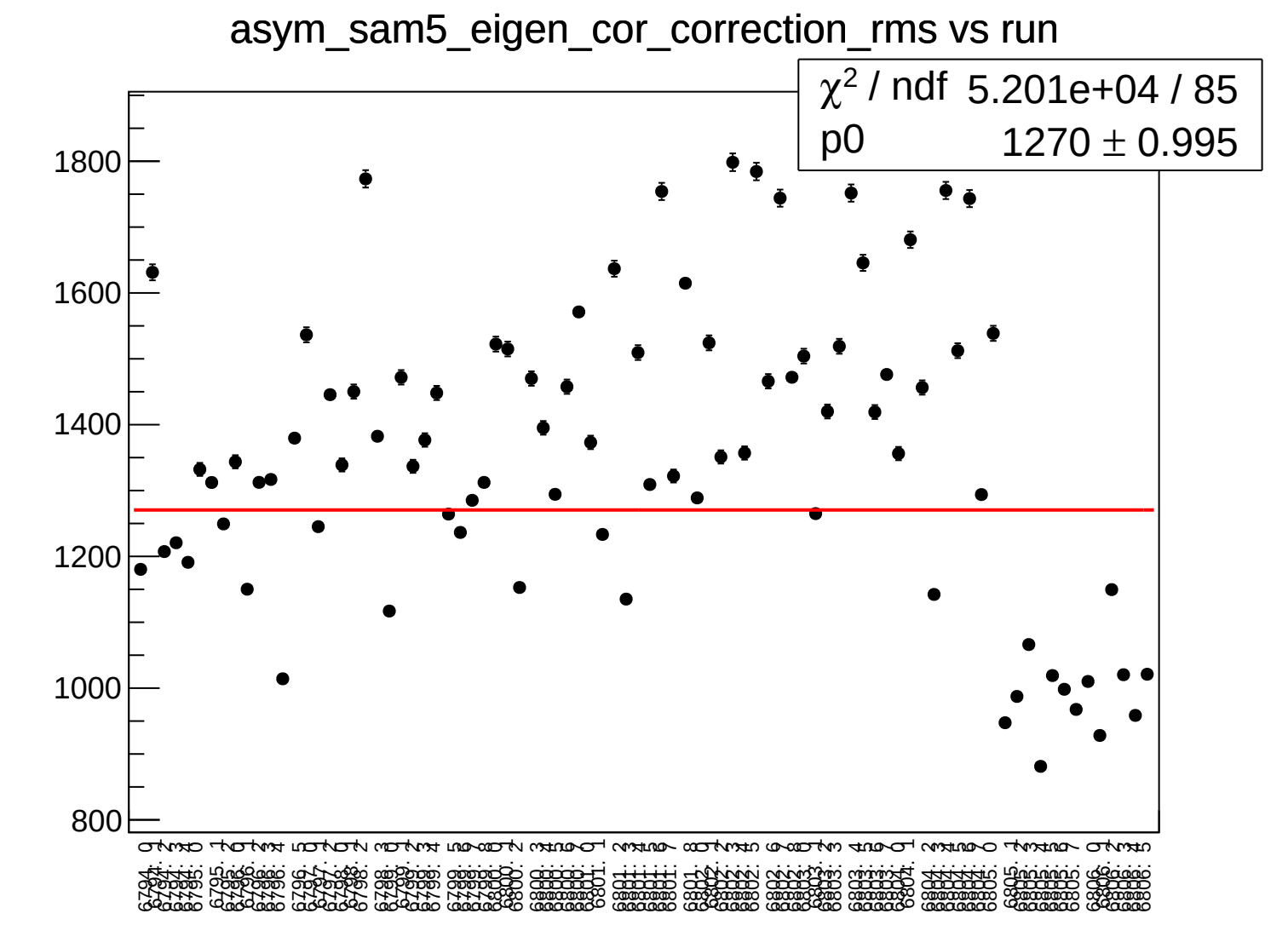

asym_sam5_cor_correction_rms vs run
χ^2 / ndf 5.201e+04 / 85
p0 1270 ± 0.995
1800
1600
1400
1200
1000
800

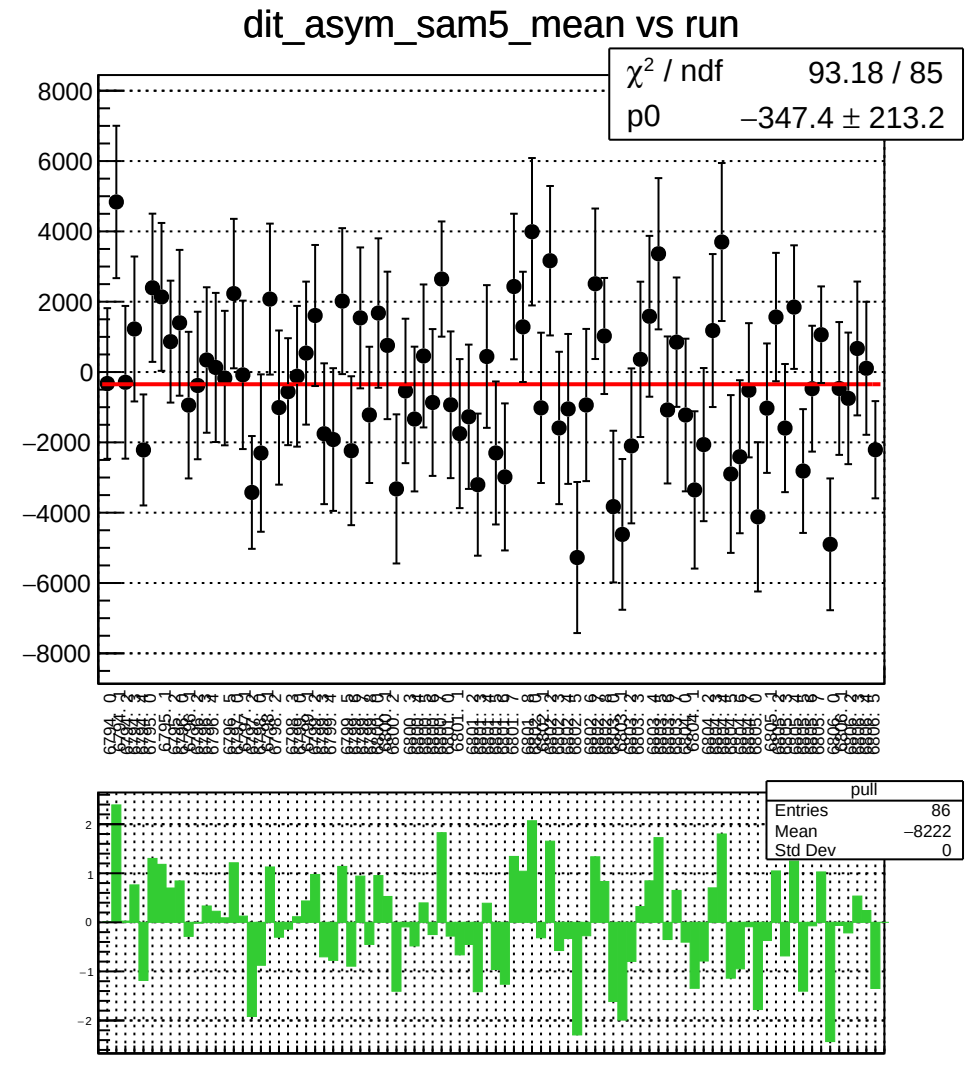

eigen_cor_asym_sam5_mean vs run
χ² / ndf 97.96 / 85
p0 −239.9 ± 199.2
pull
Entries 86
Mean 1082
Std Dev 0
pull1D
Entries 86
Mean −0.005334
Std Dev 1.067

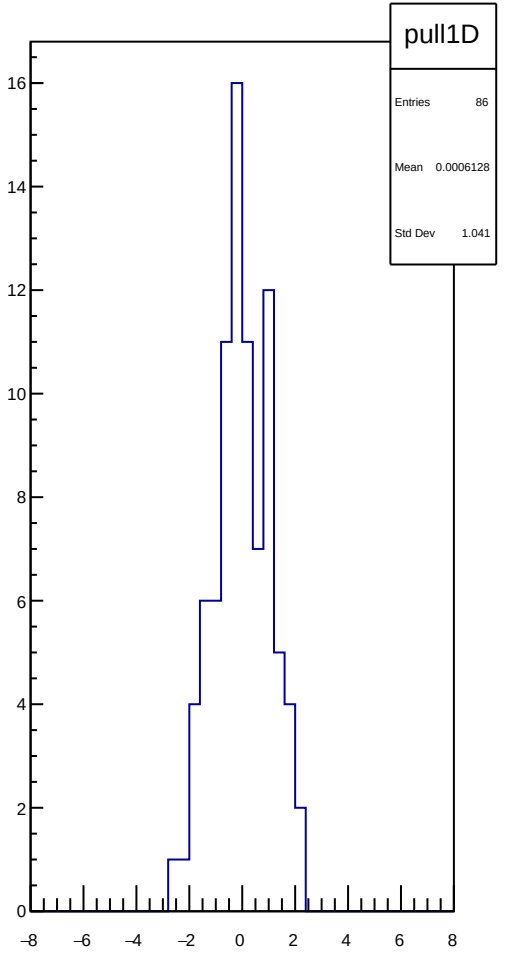

eigen_cor_asym_sam5_rms vs run
χ² / ndf 5357 / 85
p0 182.4 ± 0.1409
210
200
190
180
170
160

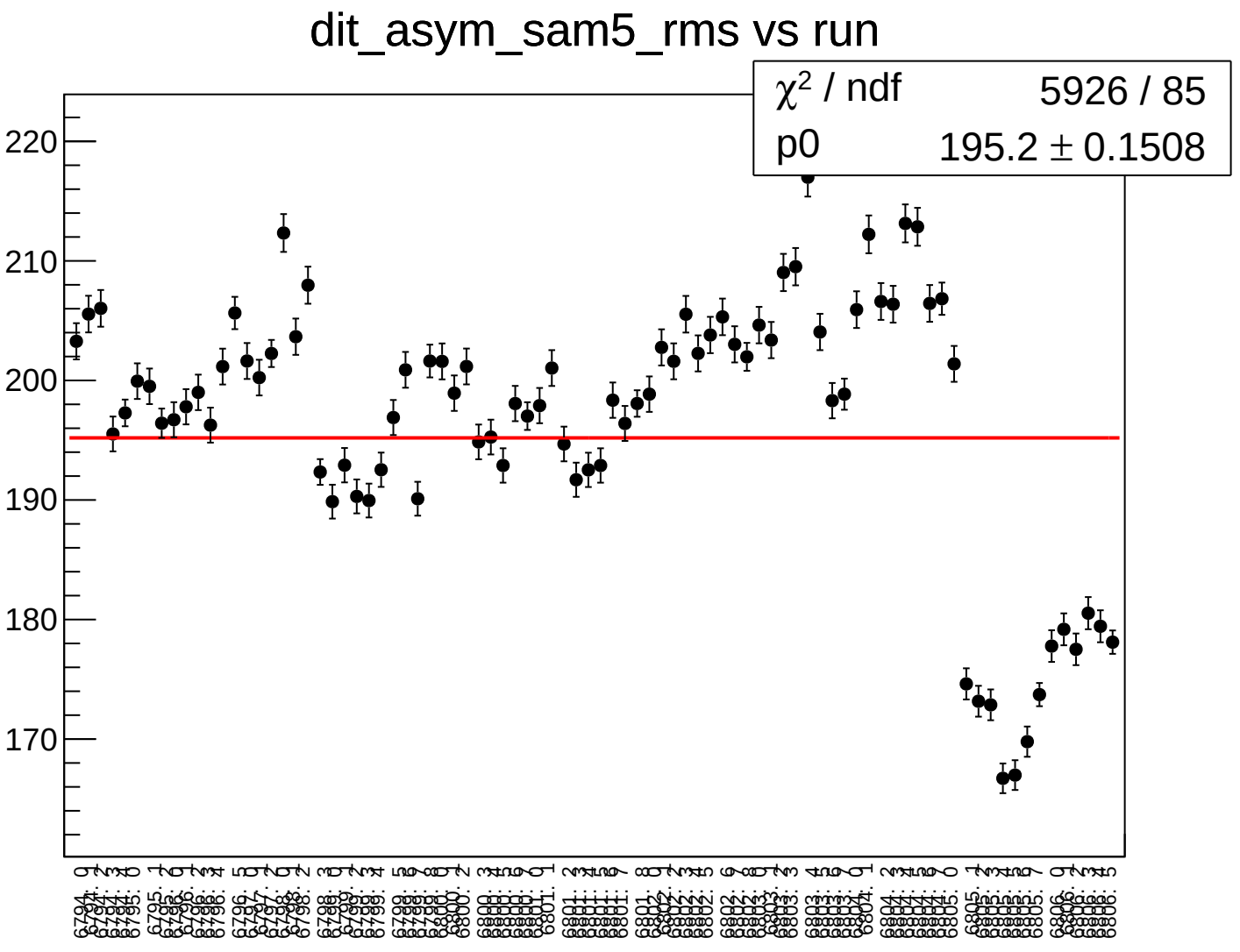

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 67.49 / 85
p0 −1658 ± 1407
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −81.81
Std Dev 0
2
1
0
−1
−2
−3

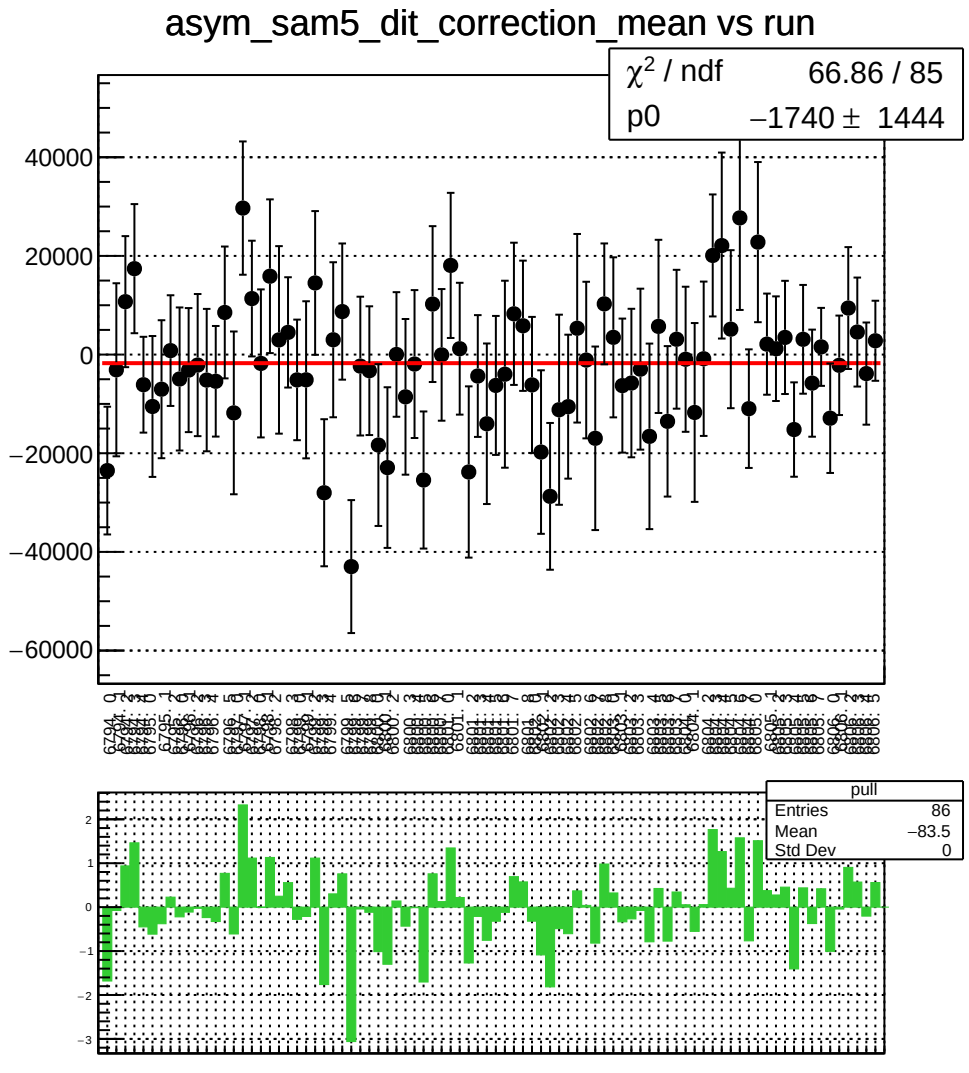

pull1D
Entries 86
Mean −0.01327
Std Dev 0.8858
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

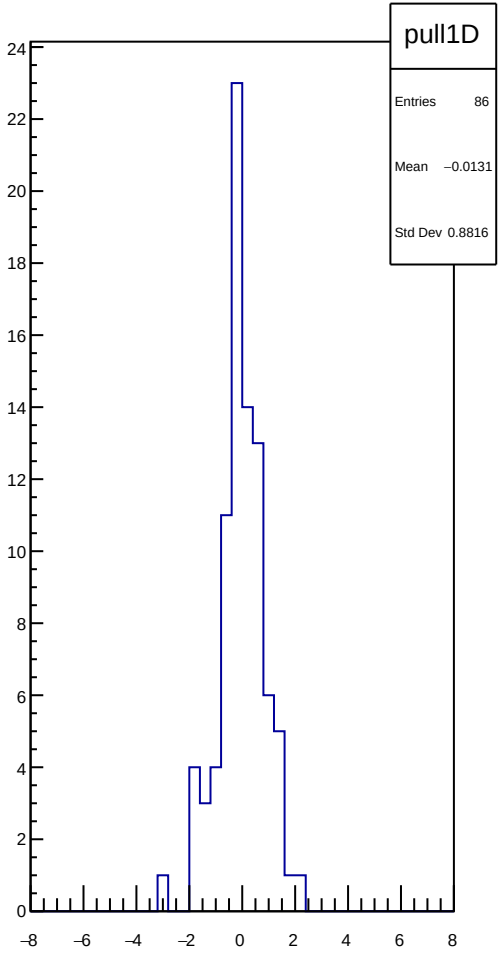

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 5.201e+04 / 85
p0 1270 ± 0.995
1800
1600
1400
1200
1000
800

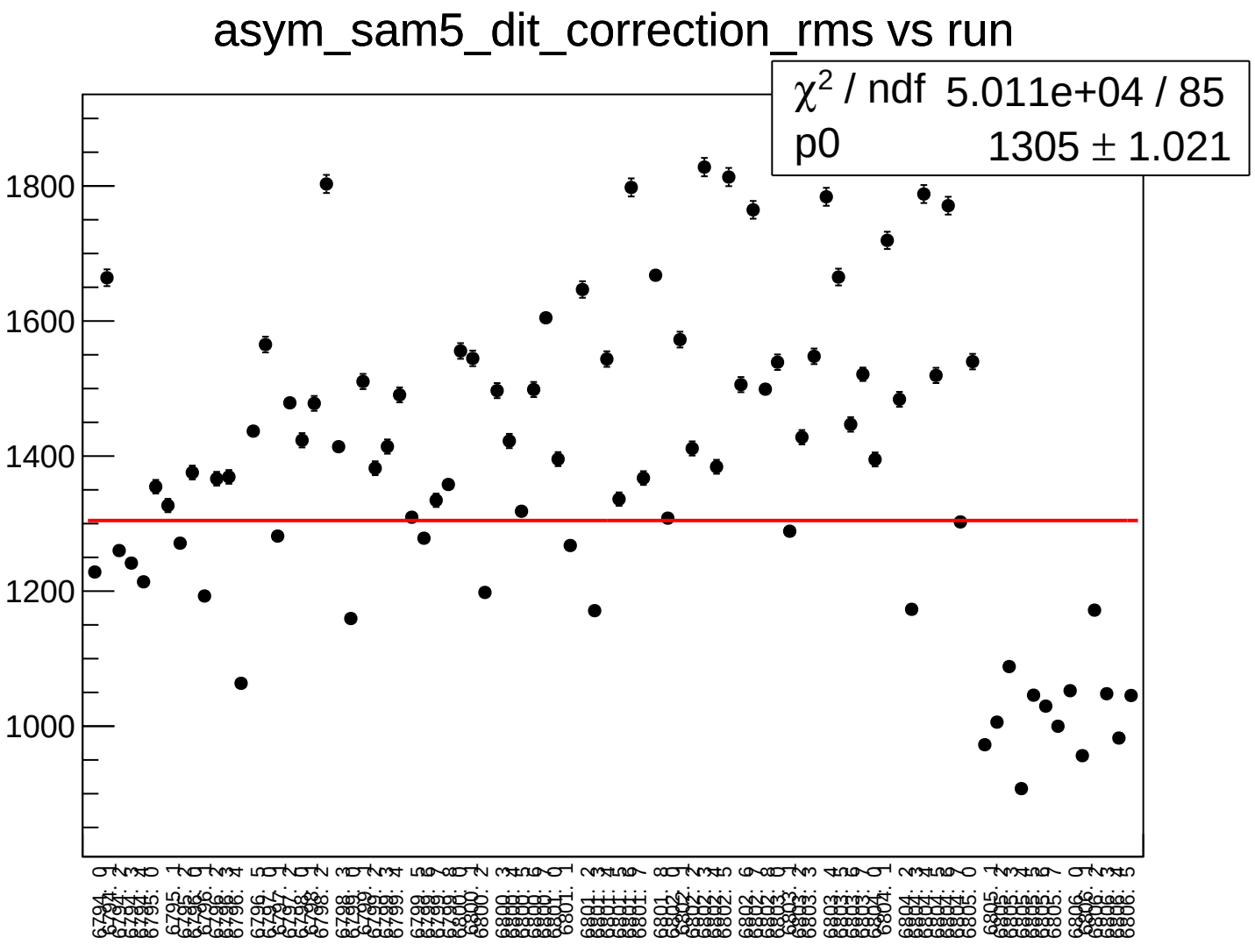

dit_asym_sam5_mean vs run
χ² / ndf 93.18 / 85
p0 −347.4 ± 213.2
pull
Entries 86
Mean −8222
Std Dev 0

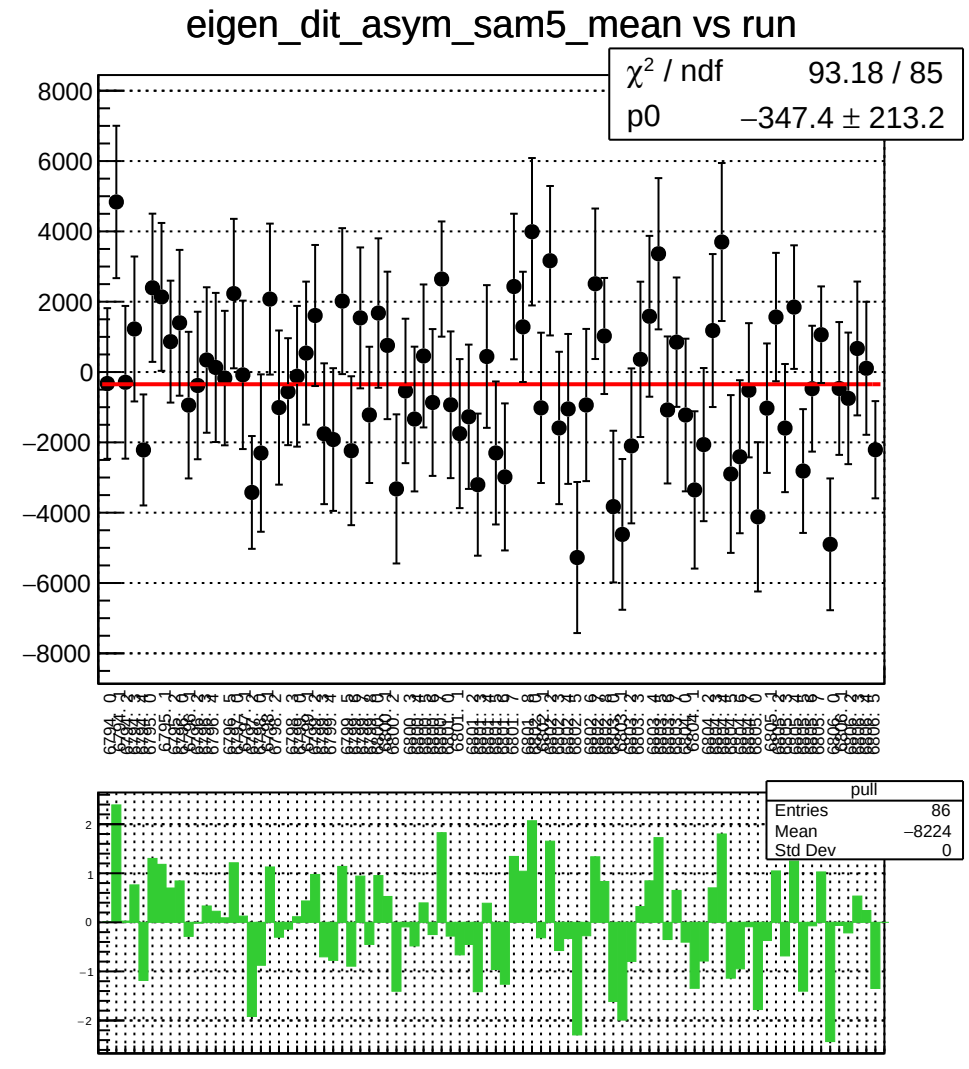

pull1D
Entries 86
Mean 0.0006128
Std Dev 1.041

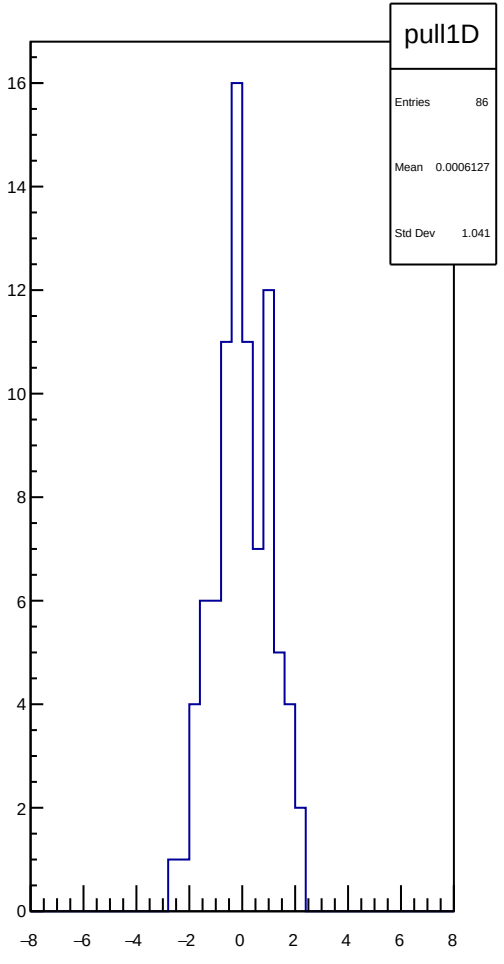

dit_asym_sam5_rms vs run
χ^2 / ndf 5926 / 85
p0 195.2 ± 0.1508
220
210
200
190
180
170

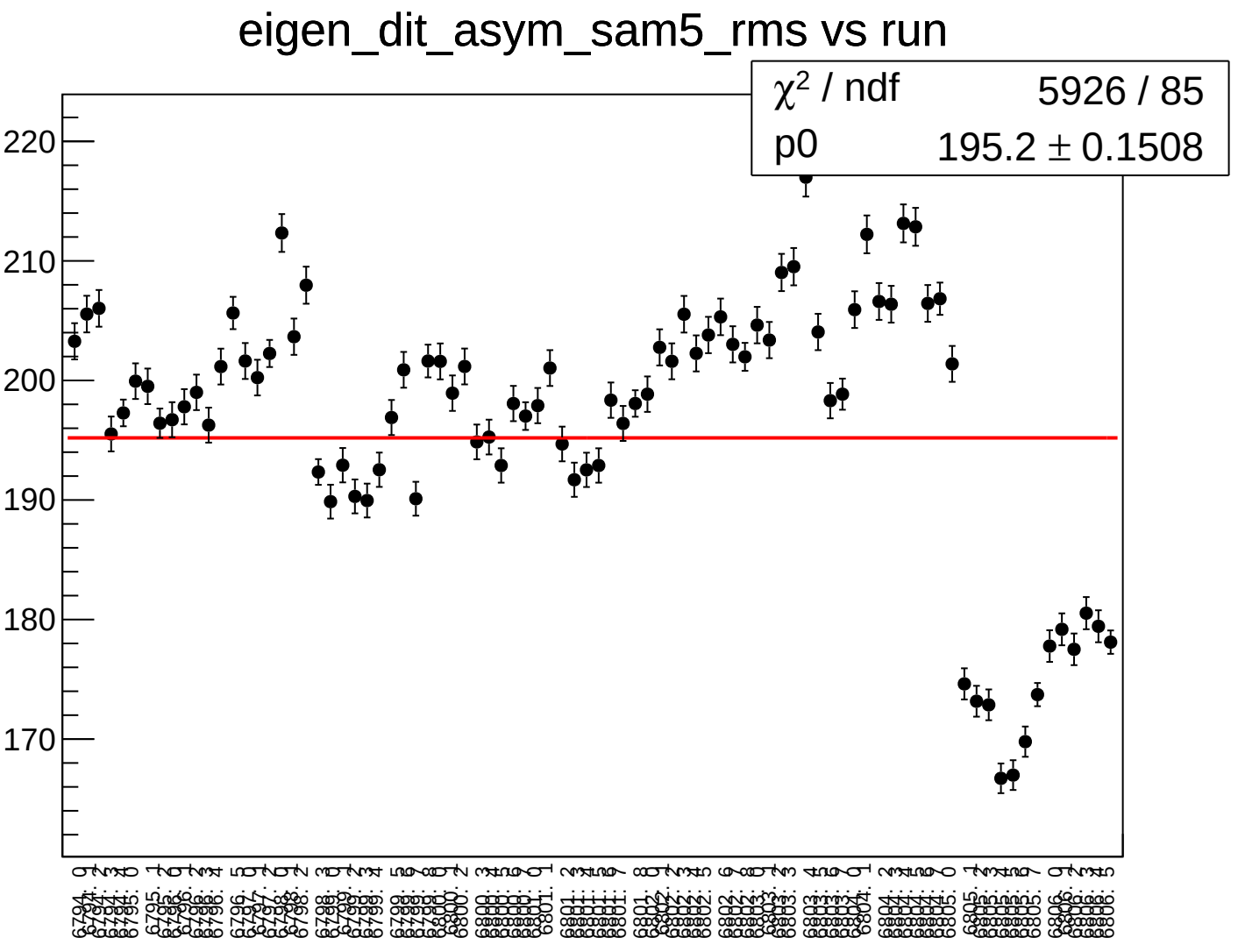

asym_sam5_dit_correction_mean vs run
χ² / ndf 66.86 / 85
p0 −1740 ± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −83.5
Std Dev 0
2
1
0
−1
−2
−3

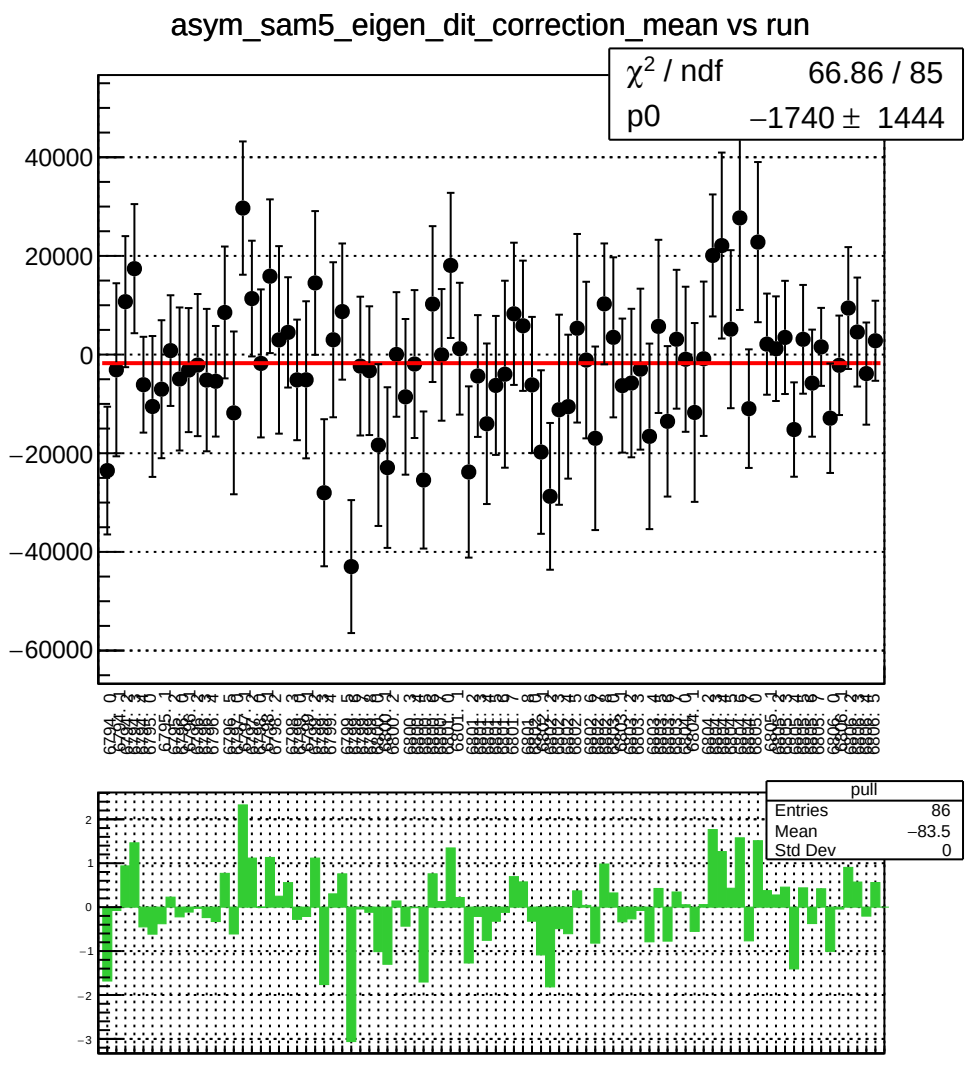

pull1D
Entries 86
Mean −0.0131
Std Dev 0.8816
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

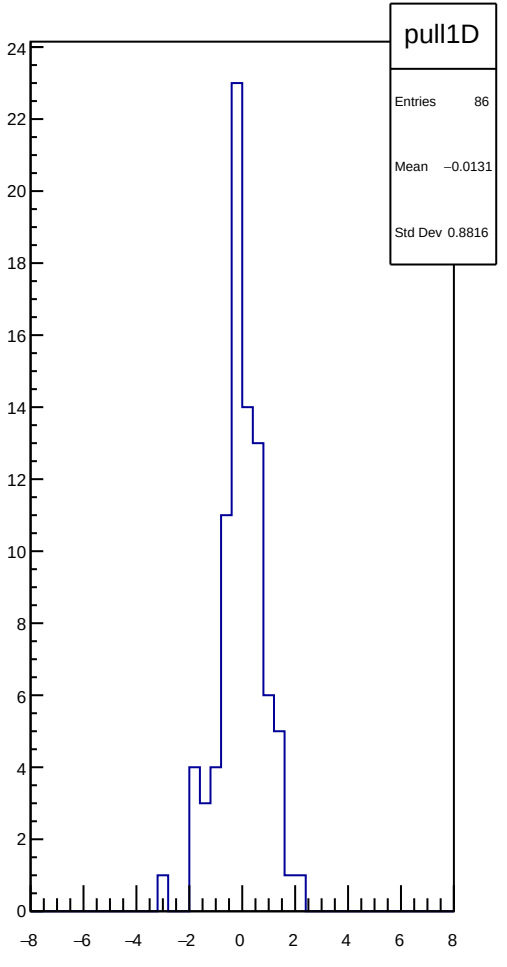

asym_sam5_dit_correction_rms vs run
χ² / ndf 5.011e+04 / 85
p0 1305 ± 1.021
1800
1600
1400
1200
1000

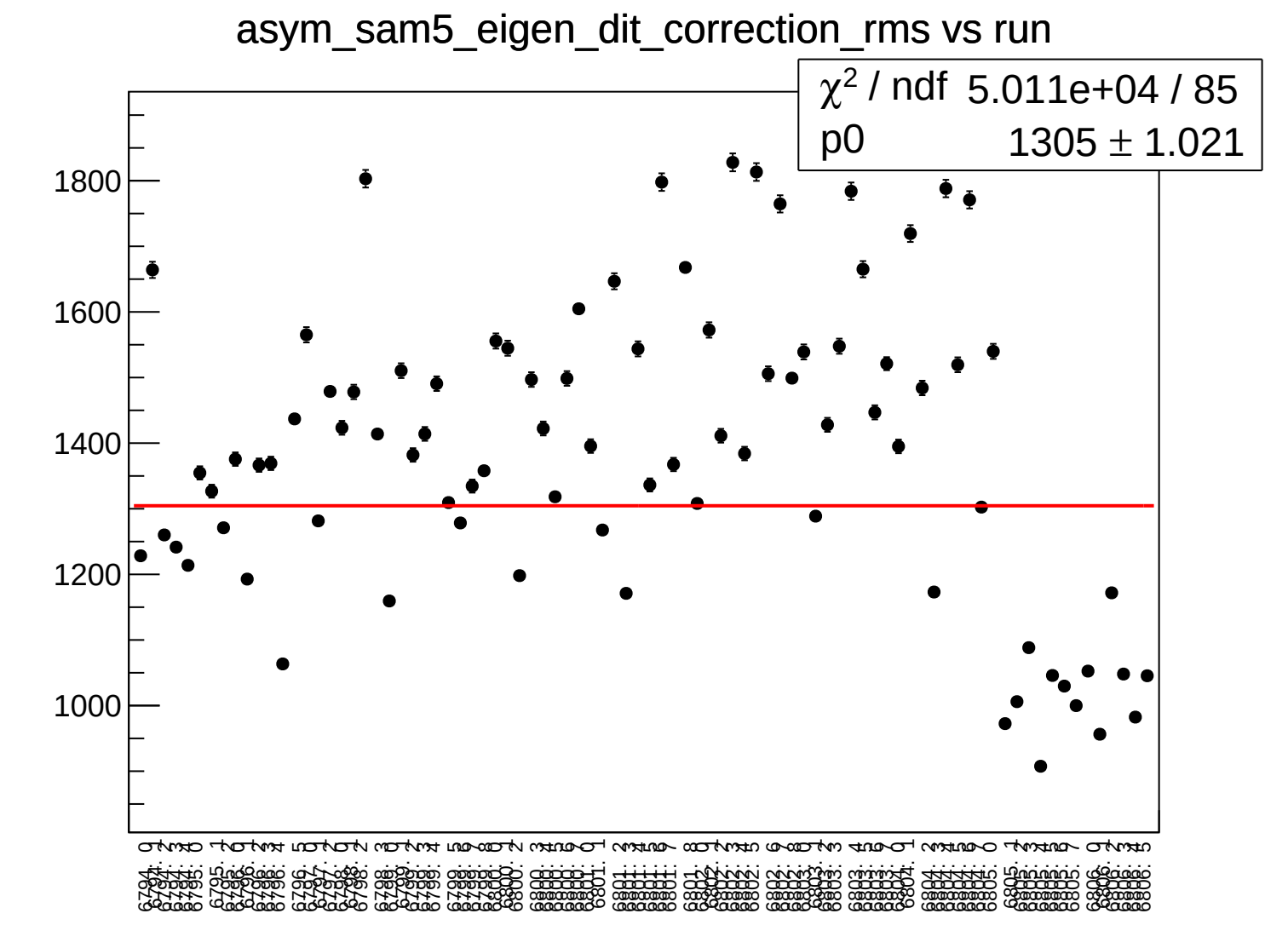

eigen_dit_asym_sam5_mean vs run
χ² / ndf 93.18 / 85
p0 −347.4 ± 213.2
pull
Entries 86
Mean −8224
Std Dev 0

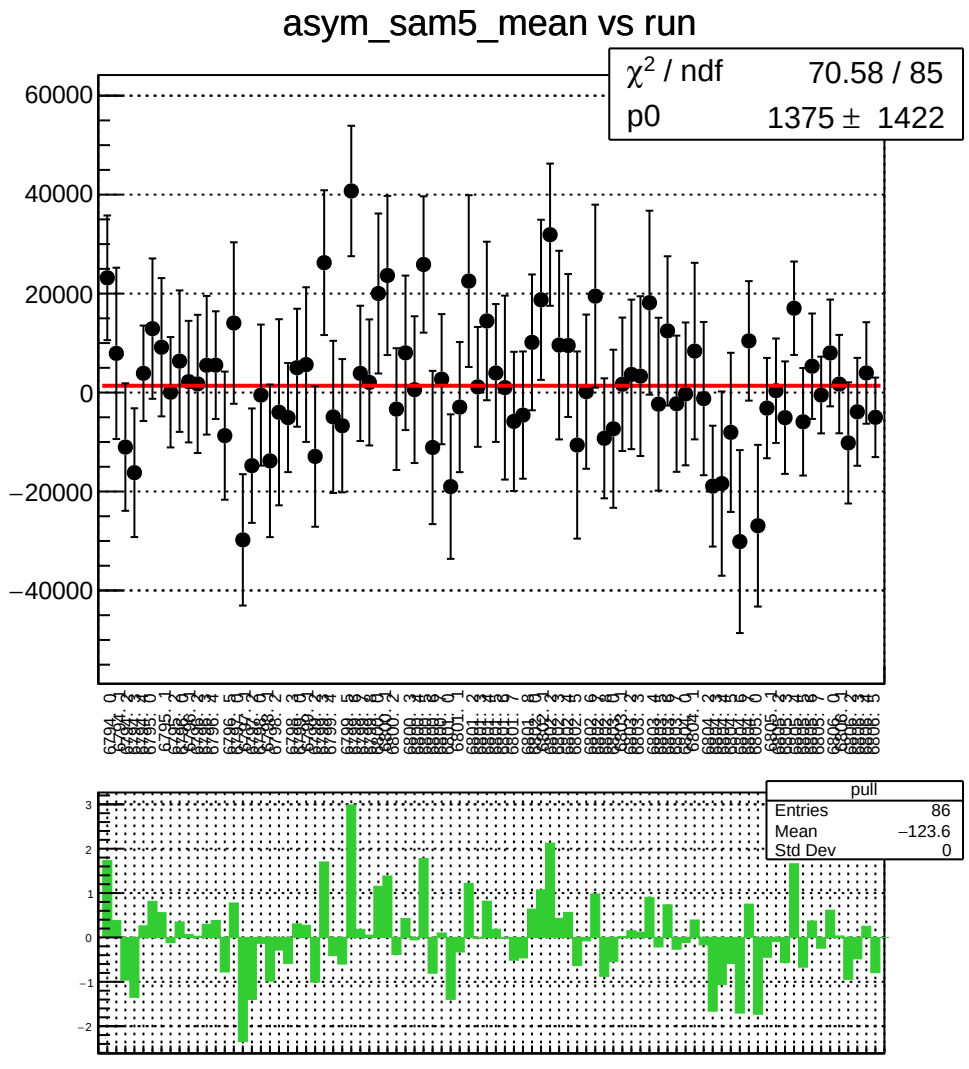

pull1D
Entries 86
Mean 0.0006127
Std Dev 1.041

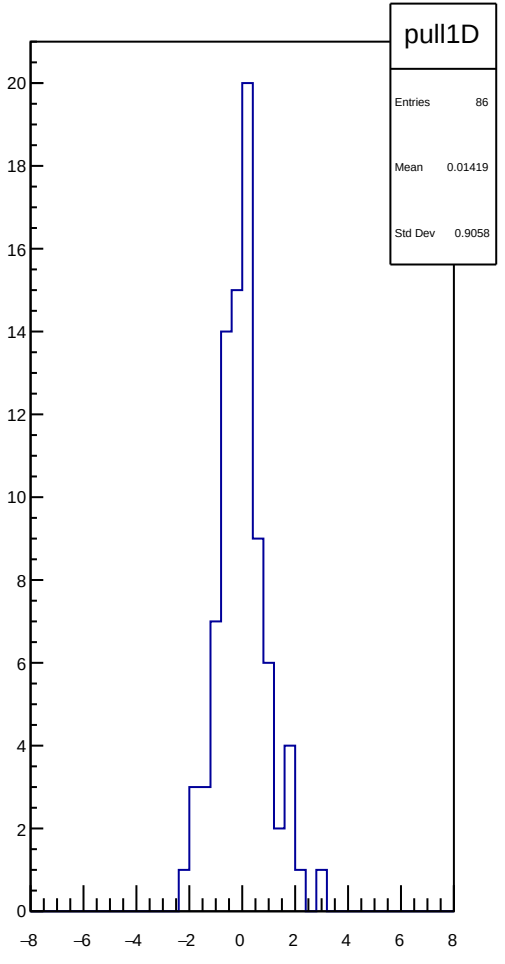

eigen_dit_asym_sam5_rms vs run
χ^2 / ndf 5926 / 85
p0 195.2 ± 0.1508
220
210
200
190
180
170

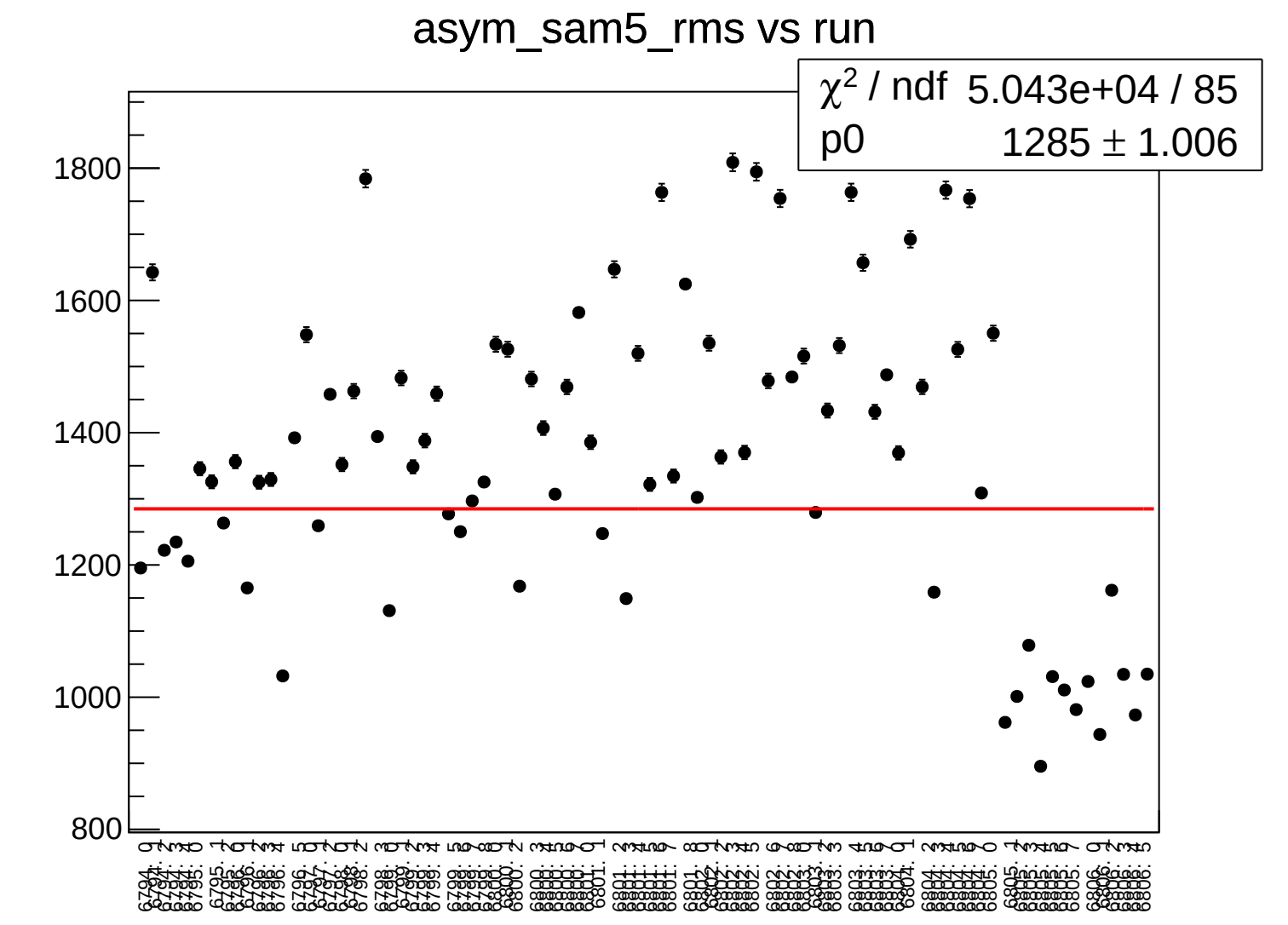

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 66.86 / 85
p0 −1740 ± 1444
40000
20000
0
−20000
−40000
−60000
pull
Entries 86
Mean −83.5
Std Dev 0
2
1
0
−1
−2
−3

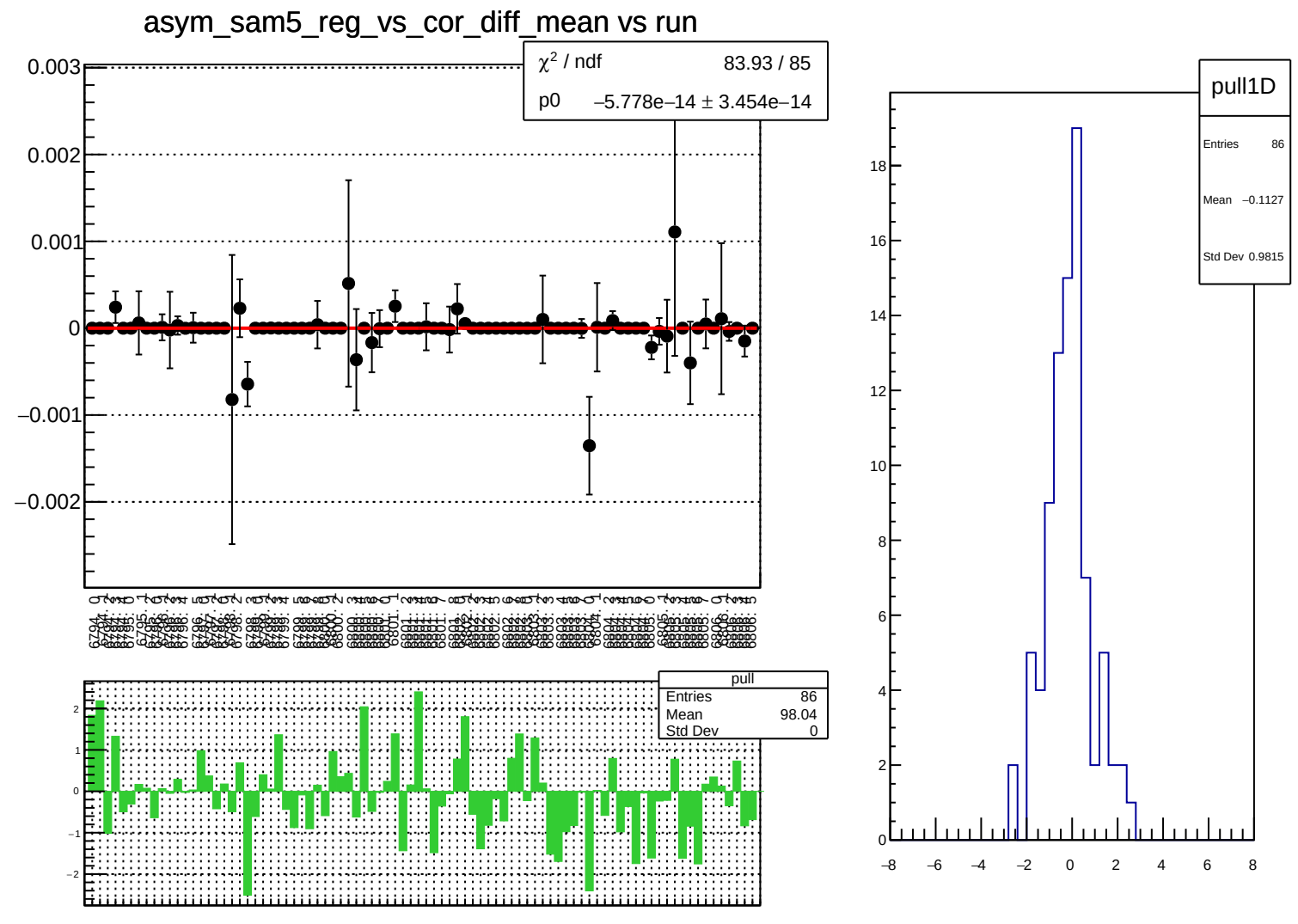

pull1D
Entries 86
Mean −0.0131
Std Dev 0.8816
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

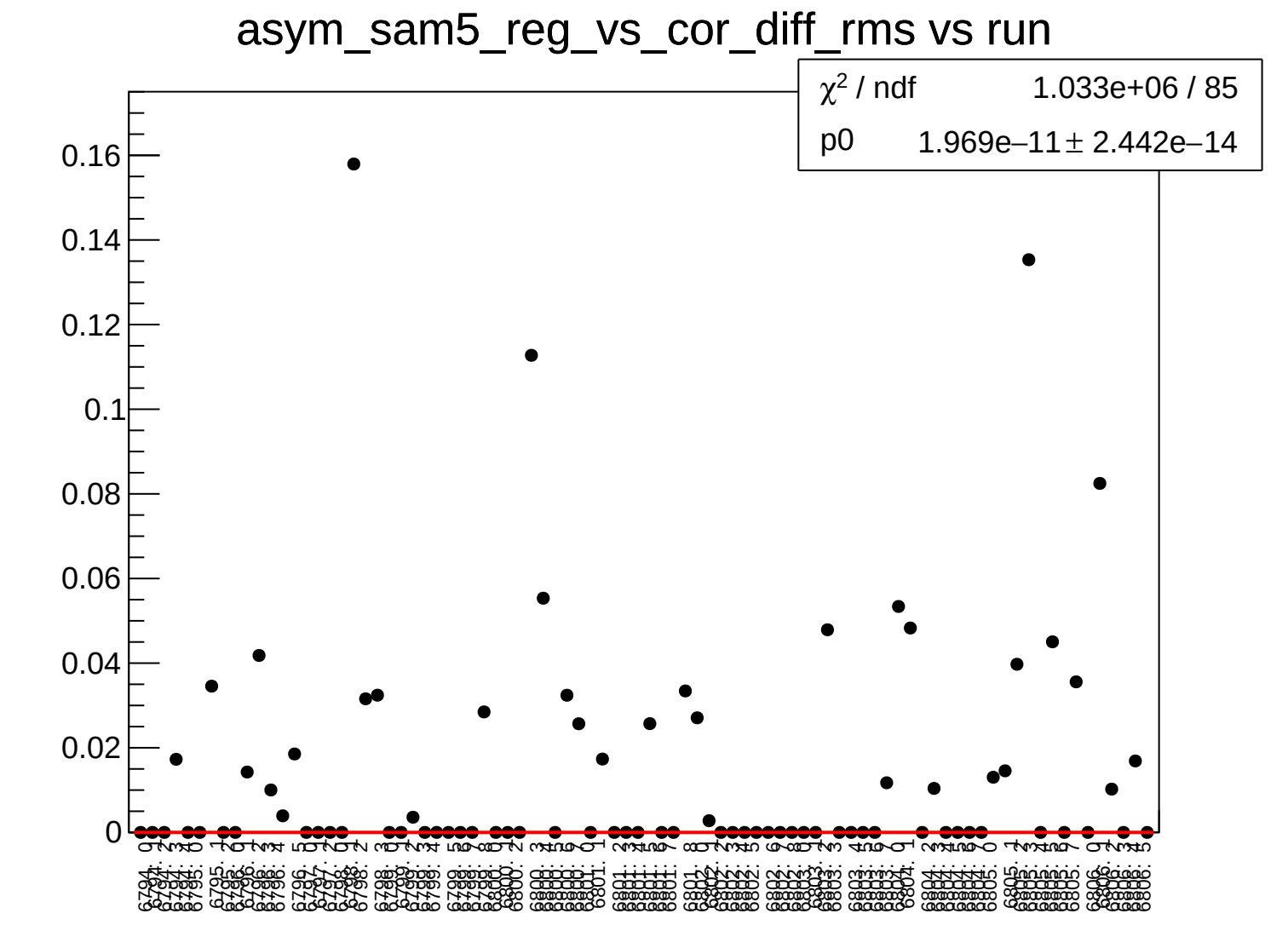

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 5.011e+04 / 85
p0 1305 ± 1.021
1800
1600
1400
1200
1000

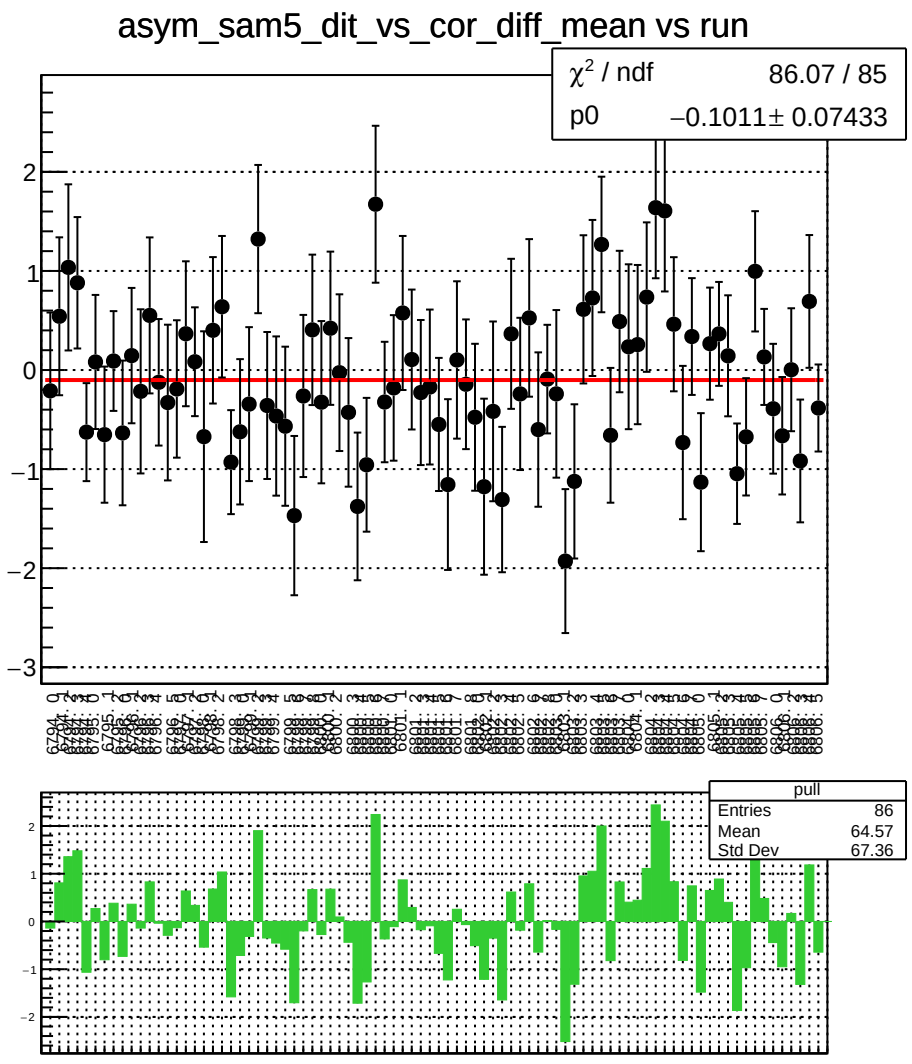

asym_sam5_mean vs run
χ² / ndf 70.58 / 85
p0 1375 ± 1422
60000
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −123.6
Std Dev 0
3
2
1
0
−1
−2

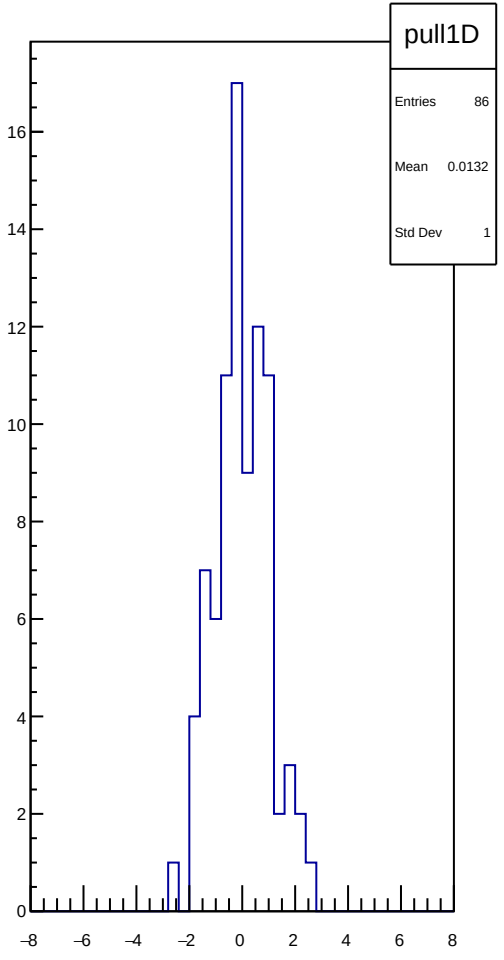

pull1D
Entries 86
Mean 0.01419
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

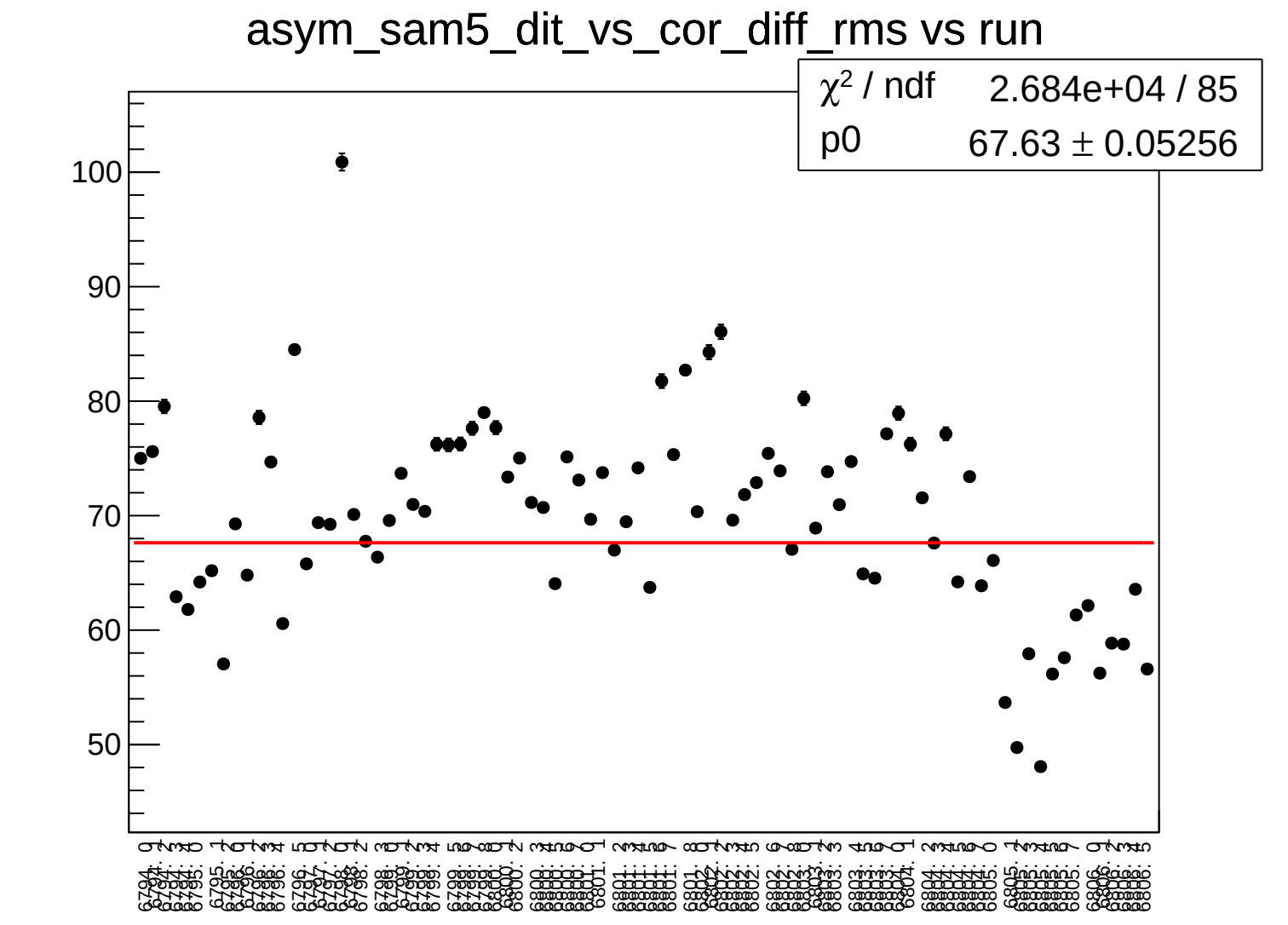

asym_sam5_rms vs run
χ² / ndf 5.043e+04 / 85
p0 1285 ± 1.006
1800
1600
1400
1200
1000
800

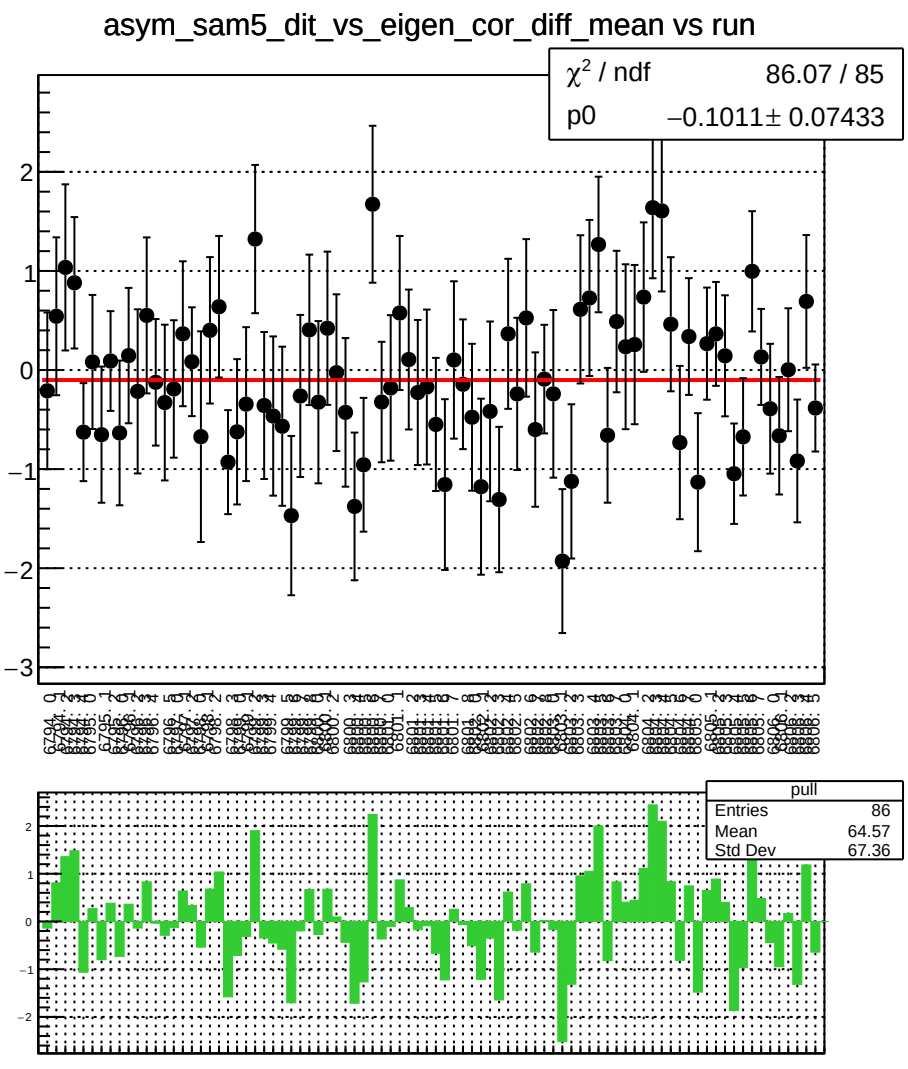

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 83.93 / 85
p0 −5.778e−14 ± 3.454e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 98.04
Std Dev 0
pull1D
Entries 86
Mean −0.1127
Std Dev 0.9815

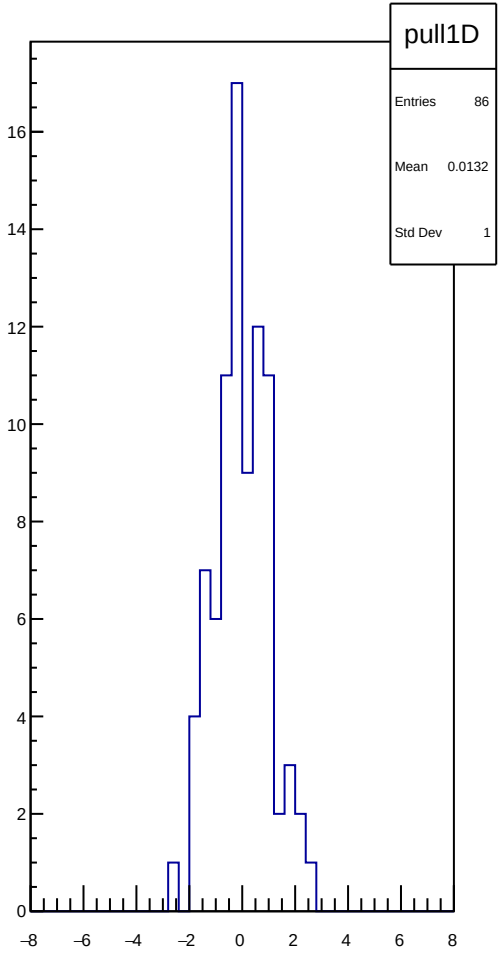

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.033e+06 / 85
p0 1.969e−11 ± 2.442e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

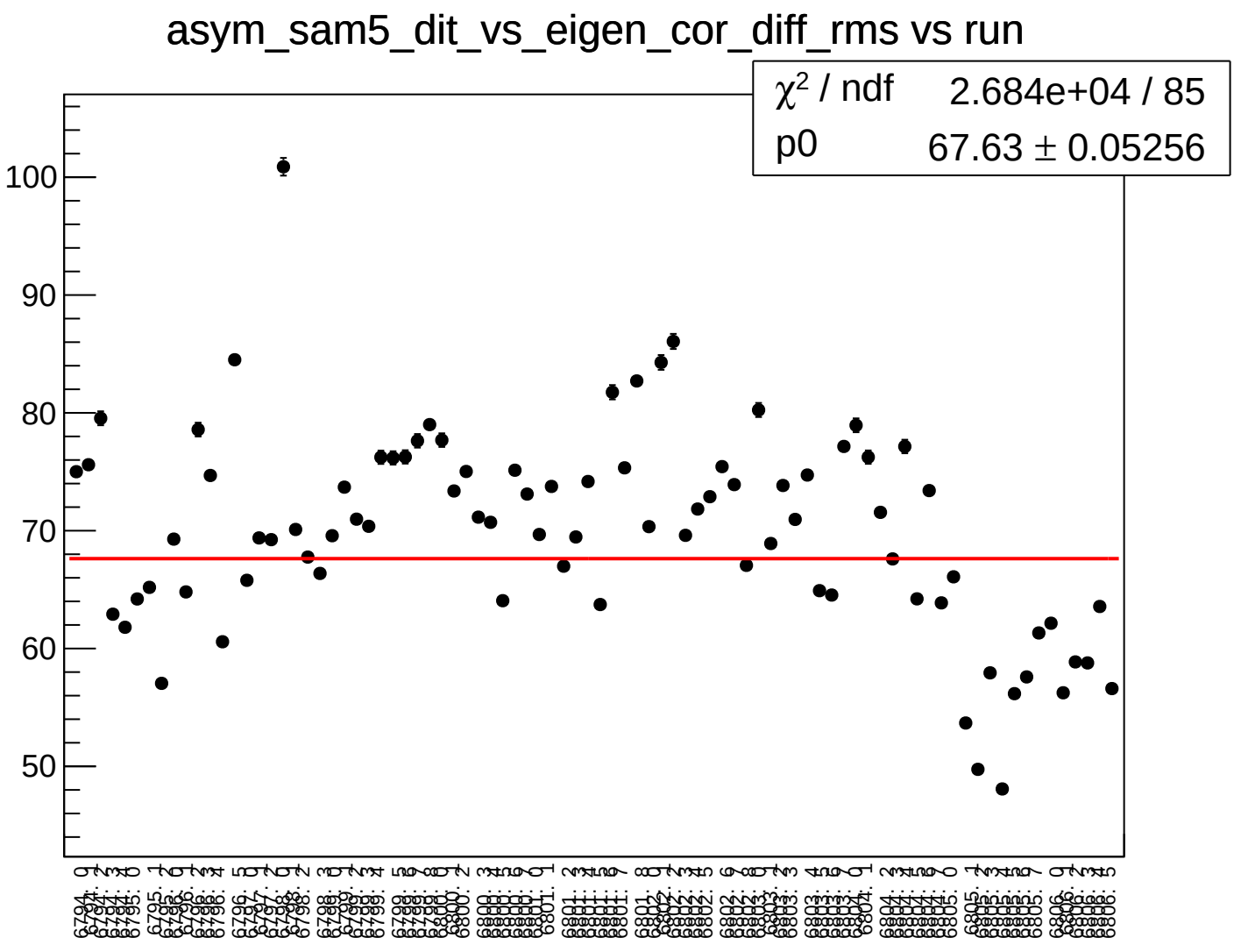

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 85
p0 −0.1011± 0.07433
pull
Entries 86
Mean 64.57
Std Dev 67.36

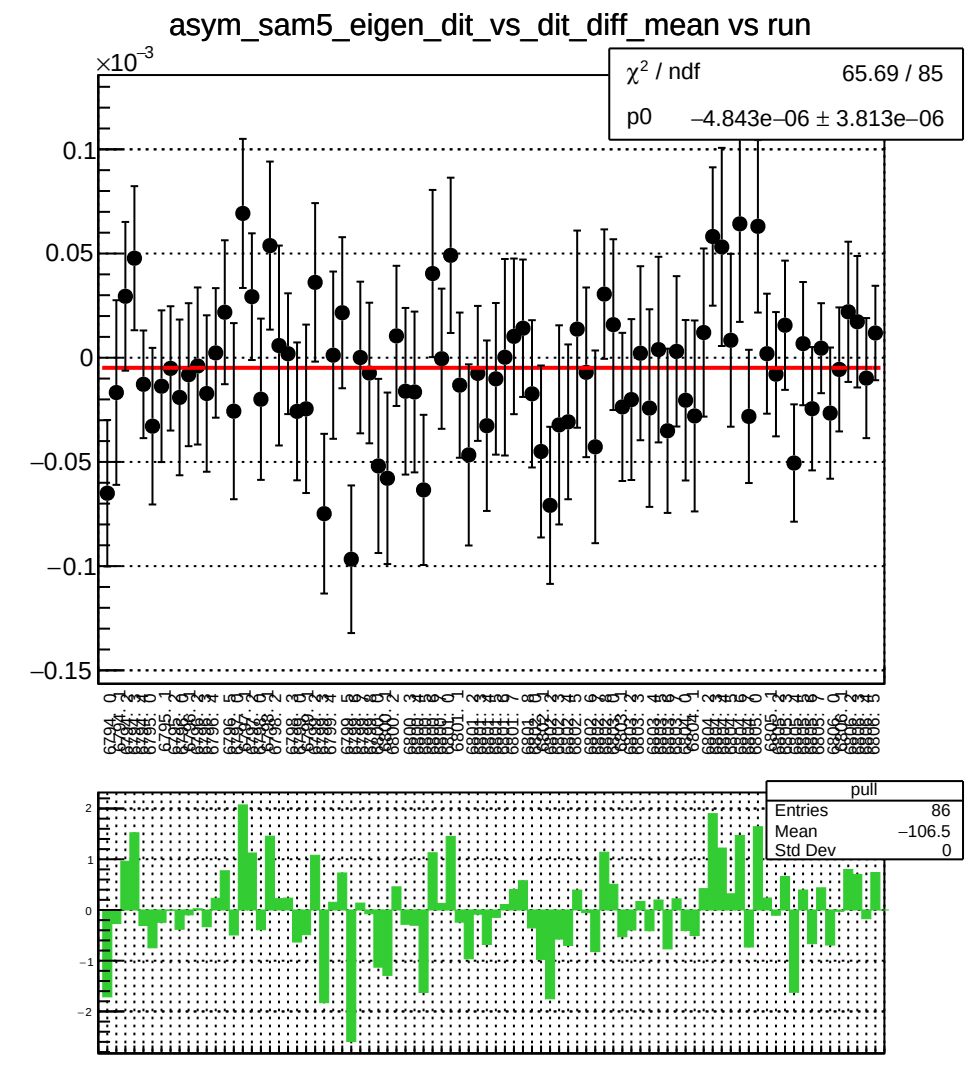

pull1D
Entries 86
Mean 0.0132
Std Dev 1

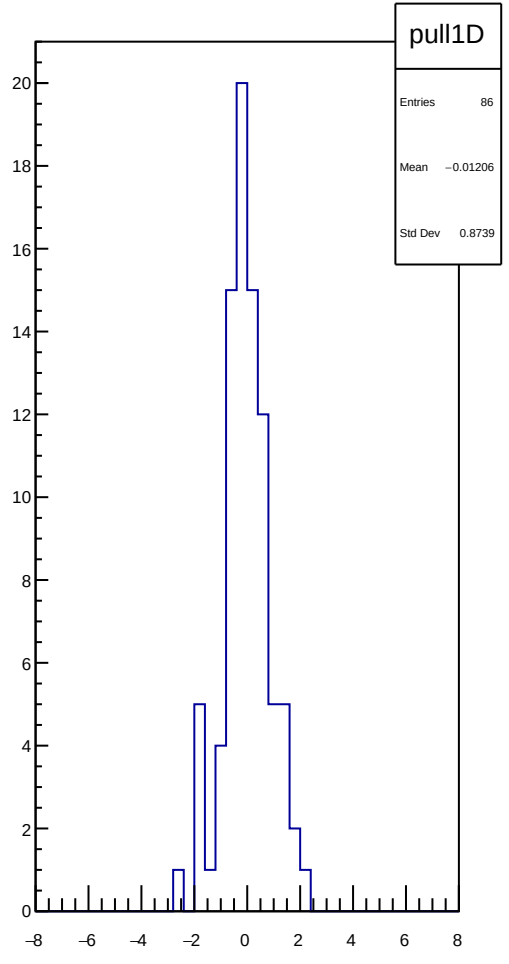

asym_sam5_dit_vs_cor_diff_rms vs run
χ² / ndf 2.684e+04 / 85
p0 67.63 ± 0.05256
100
90
80
70
60
50

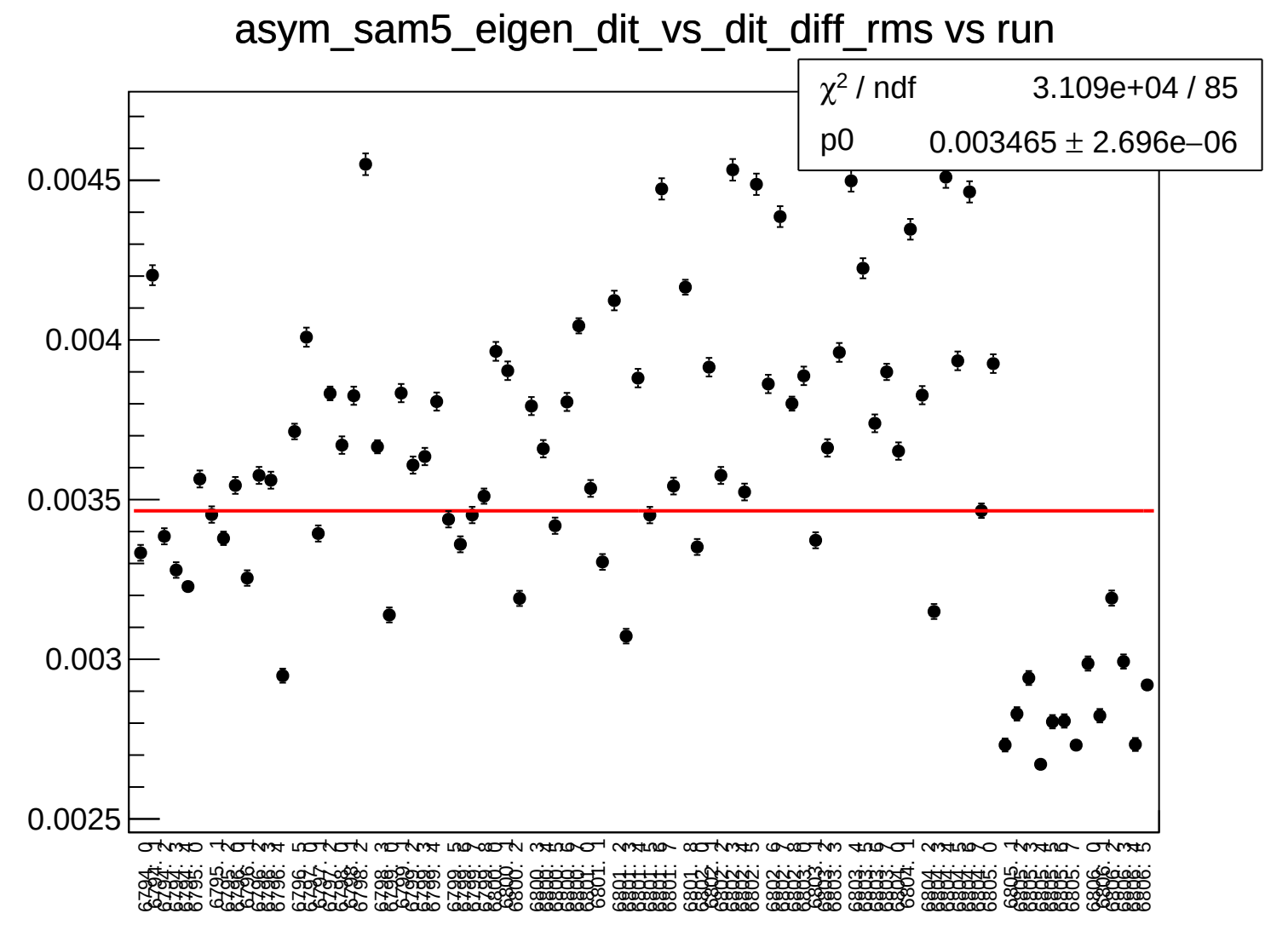

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 85
p0 −0.1011± 0.07433
pull
Entries 86
Mean 64.57
Std Dev 67.36

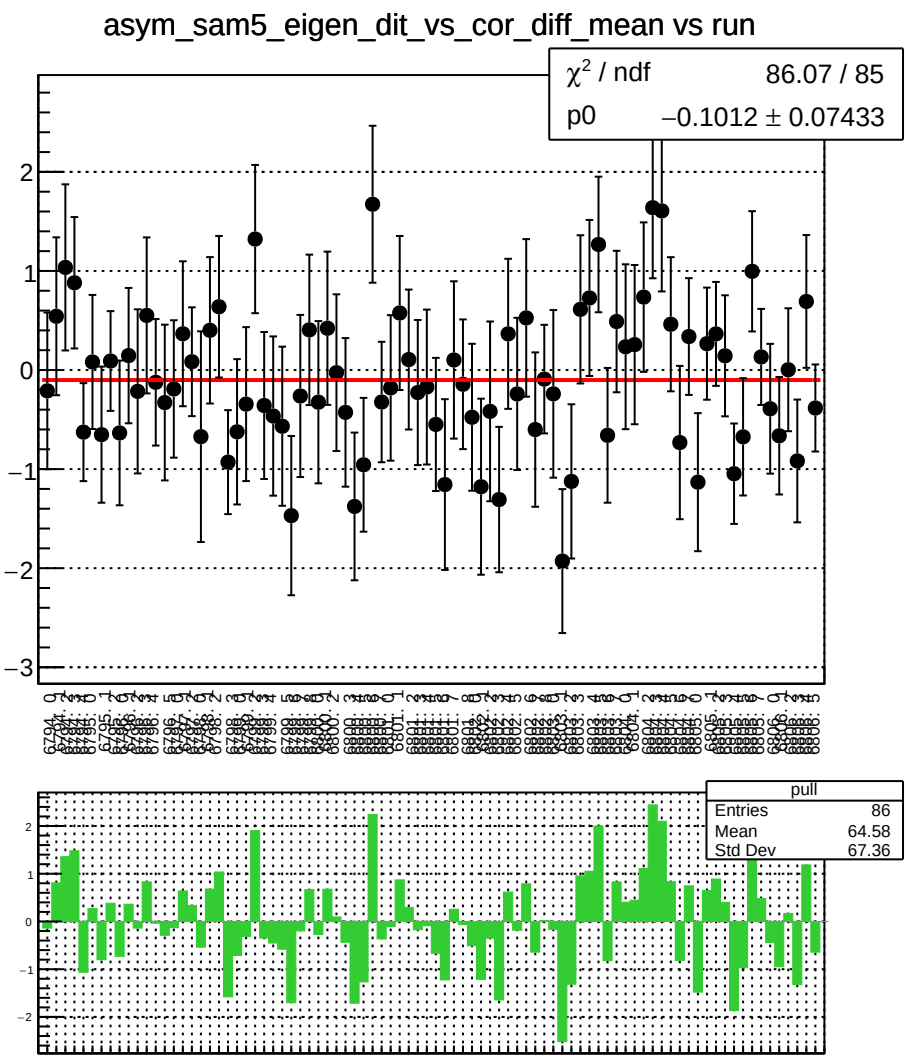

pull1D
Entries 86
Mean 0.0132
Std Dev 1

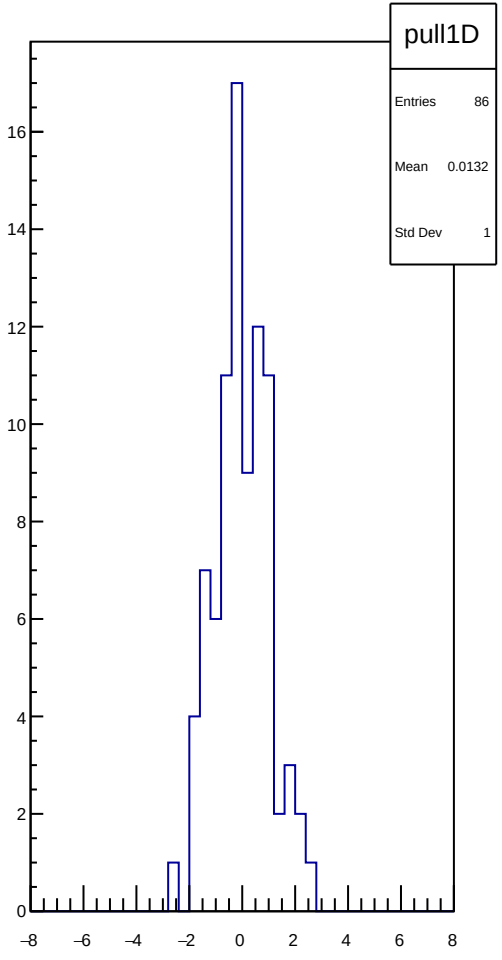

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.684e+04 / 85
p0 67.63 ± 0.05256
100
90
80
70
60
50

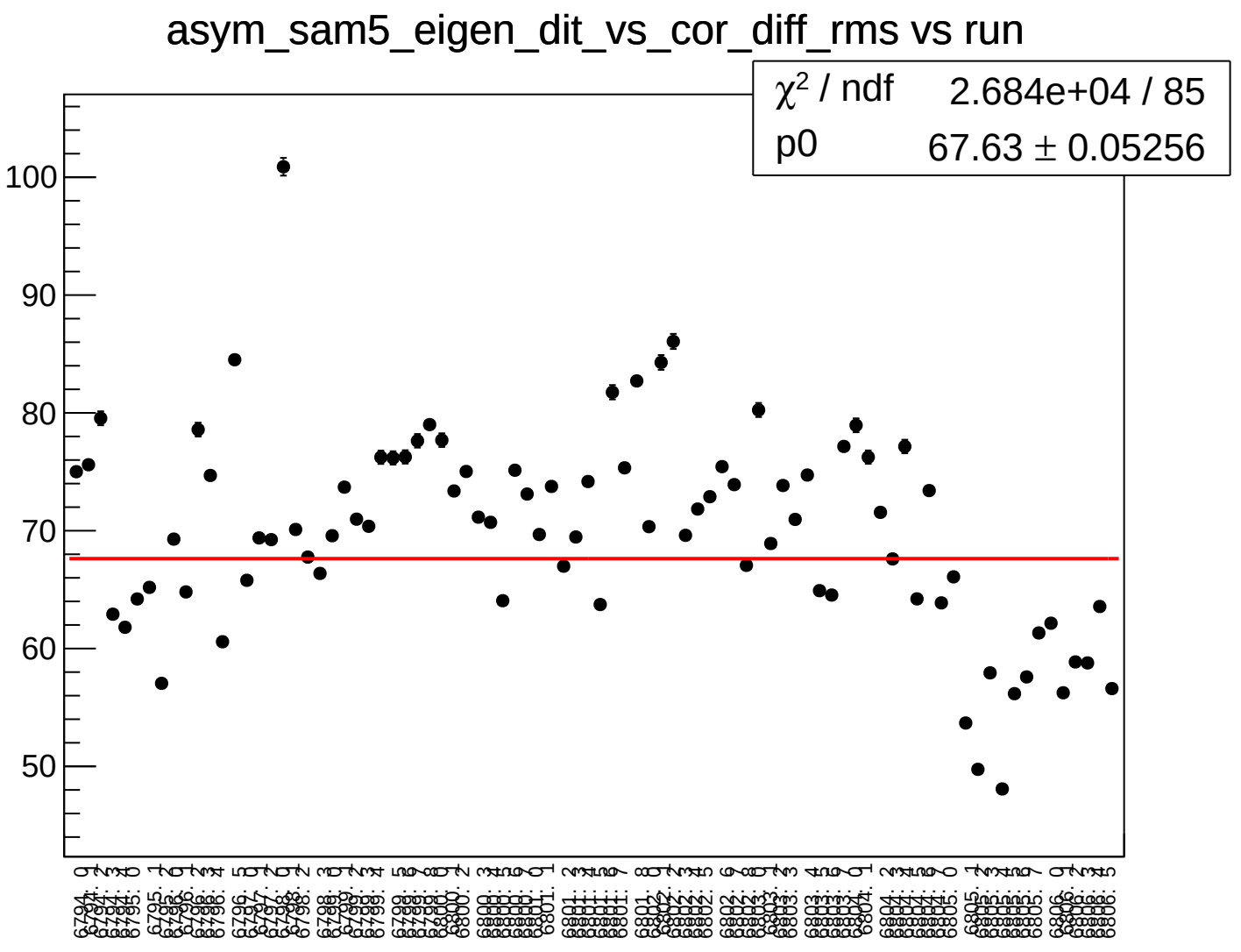

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.69 / 85
p0 −4.843e−06 ± 3.813e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −106.5
Std Dev 0
2
1
0
−1
−2

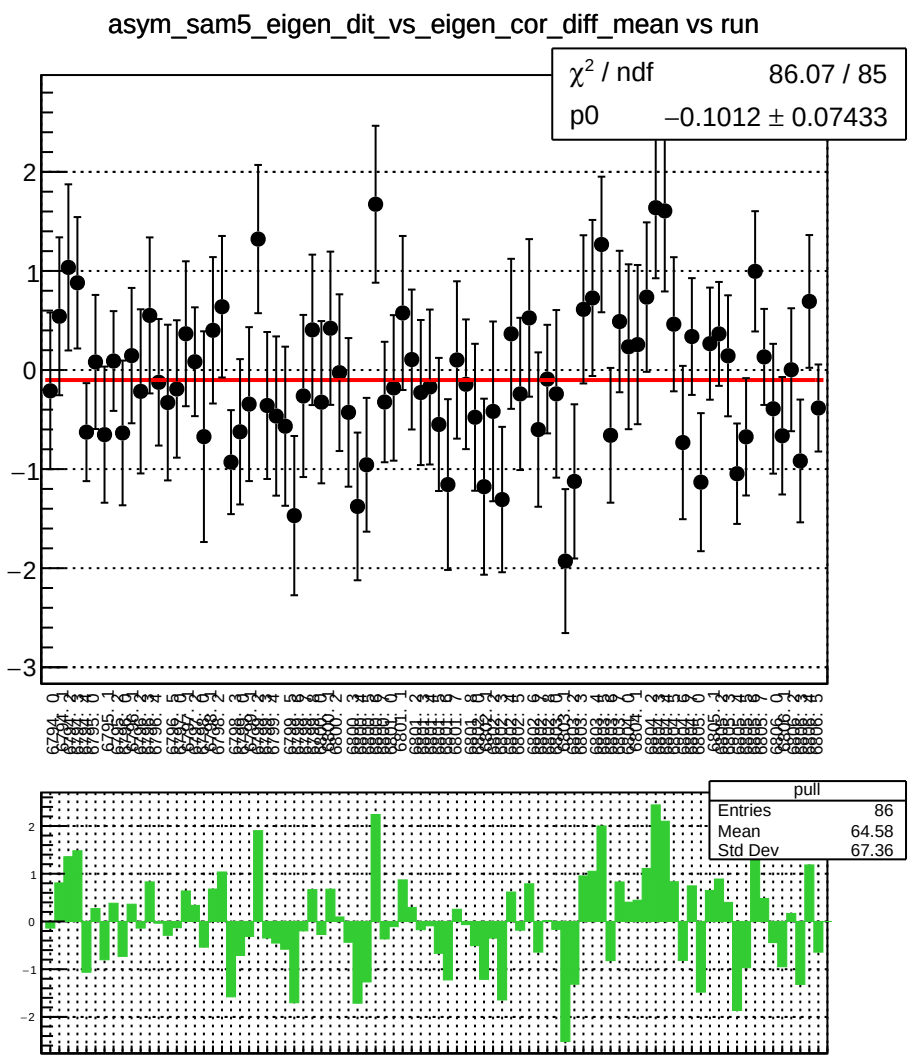

pull1D
Entries 86
Mean −0.01206
Std Dev 0.8739
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

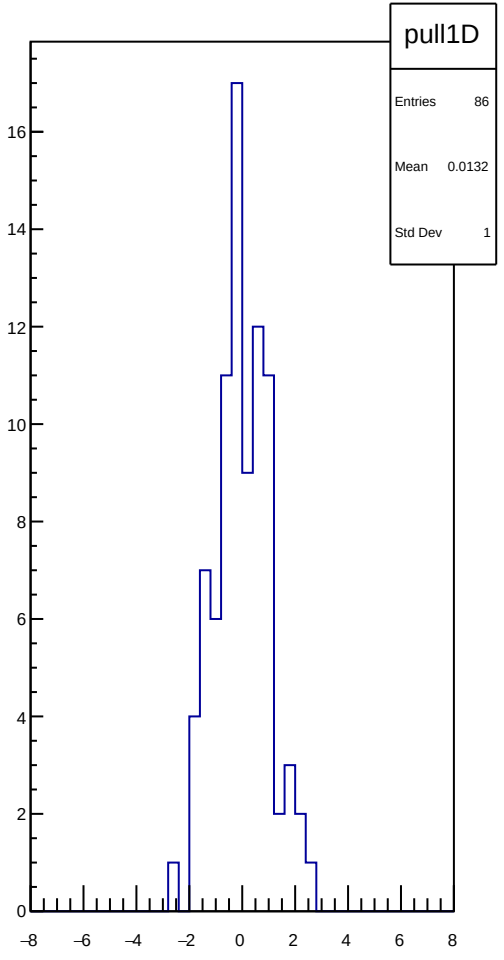

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.109e+04 / 85
p0 0.003465 ± 2.696e−06
0.0045
0.004
0.0035
0.003
0.0025

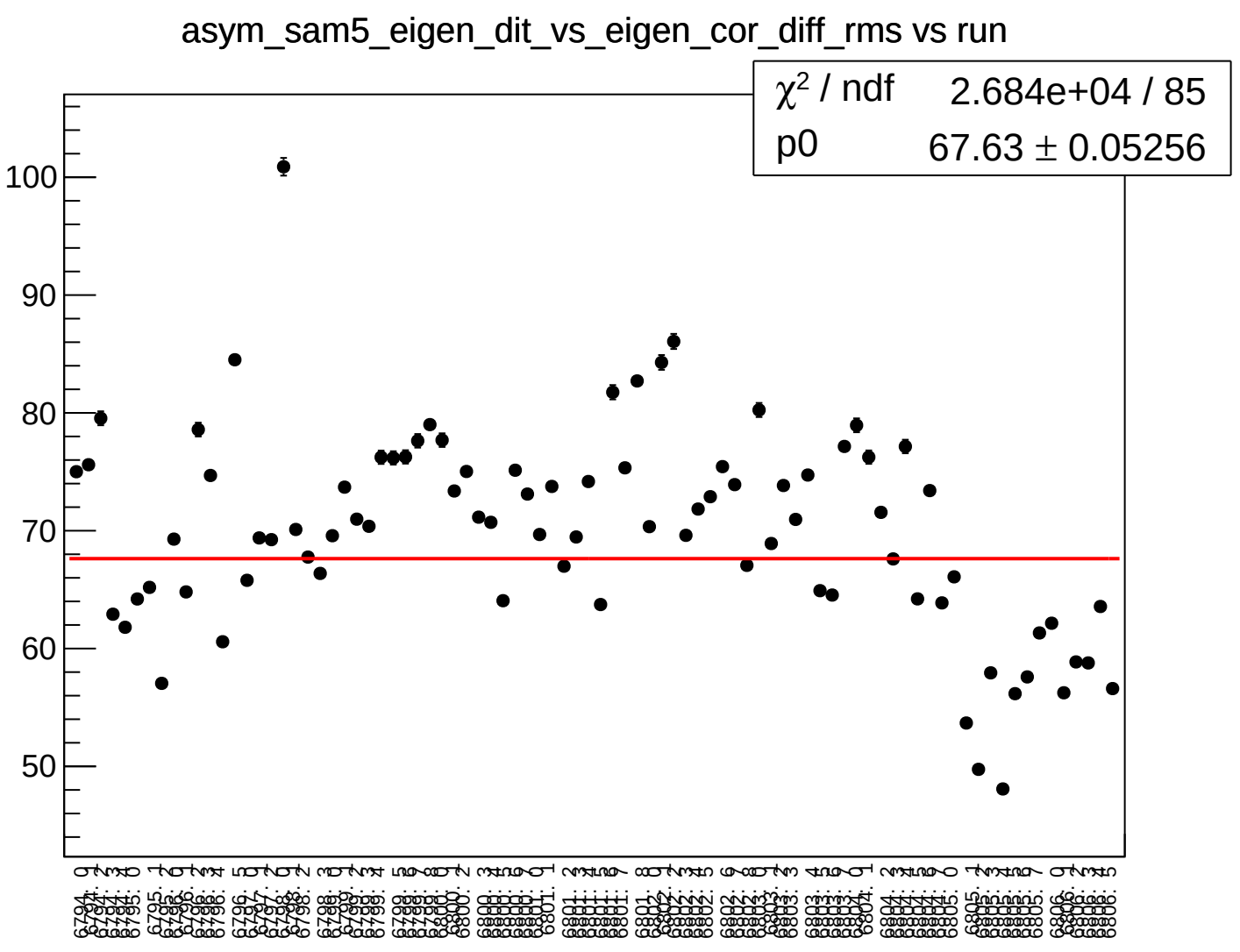

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.07 / 85
p0 −0.1012 ± 0.07433
pull
Entries 86
Mean 64.58
Std Dev 67.36

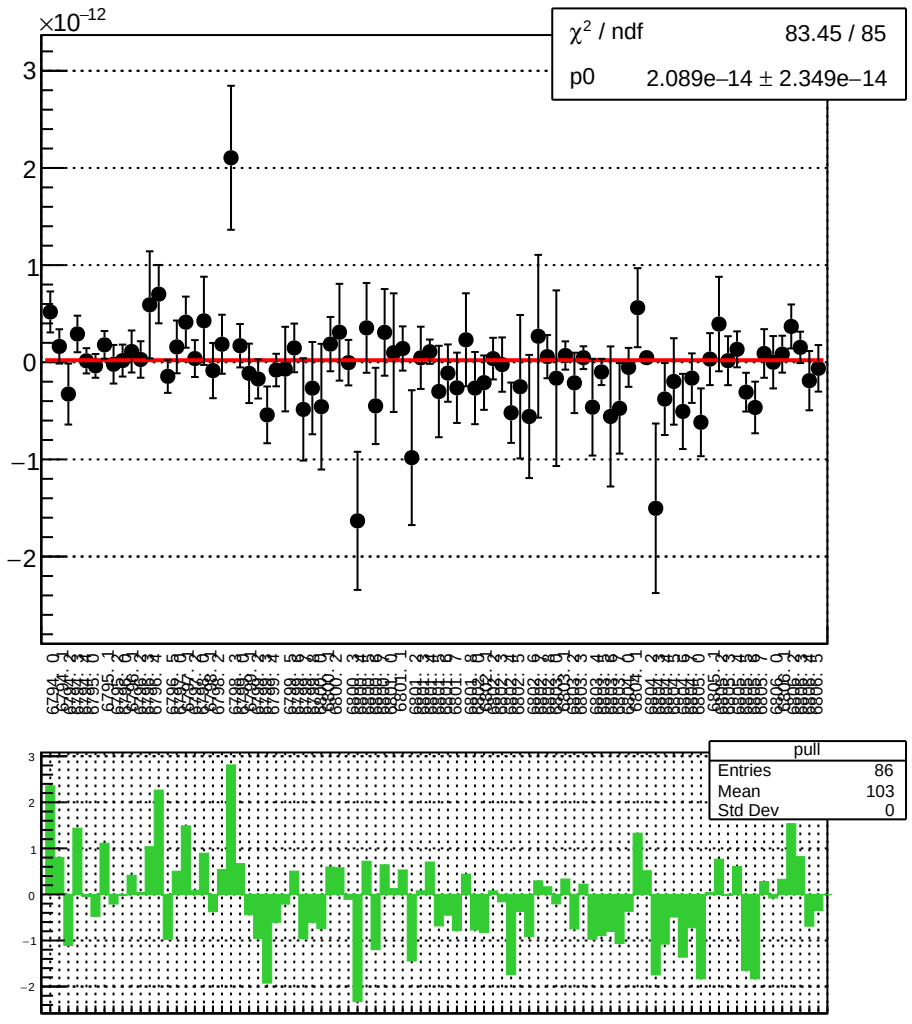

pull1D
Entries 86
Mean 0.0132
Std Dev 1

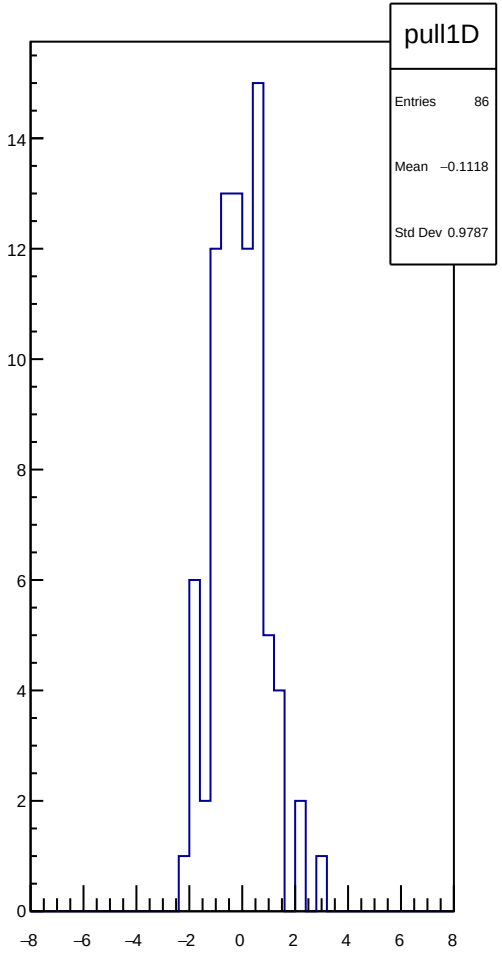

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.684e+04 / 85
p0 67.63 ± 0.05256
100
90
80
70
60
50

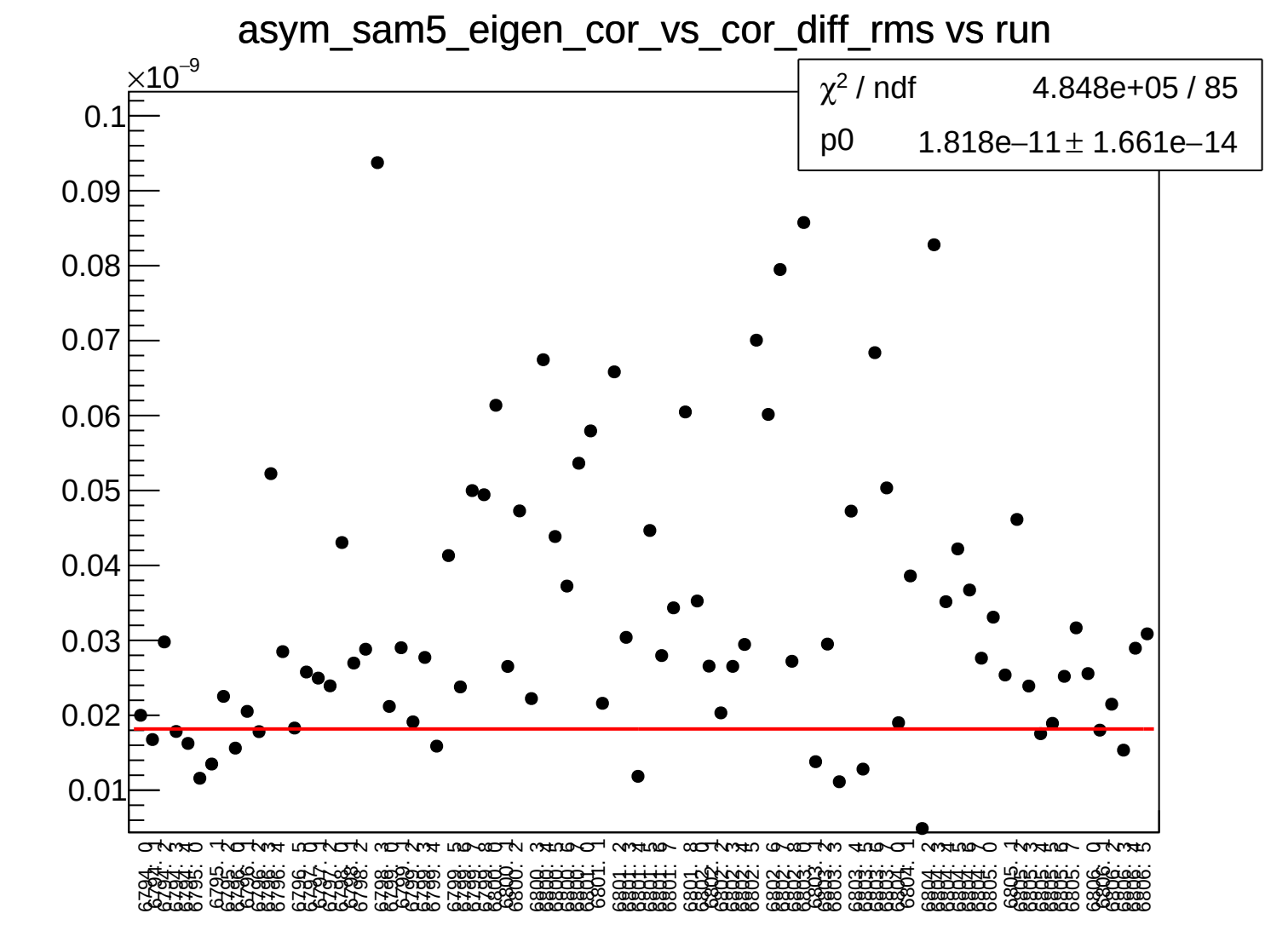

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.07 / 85
p0 −0.1012 ± 0.07433
pull
Entries 86
Mean 64.58
Std Dev 67.36

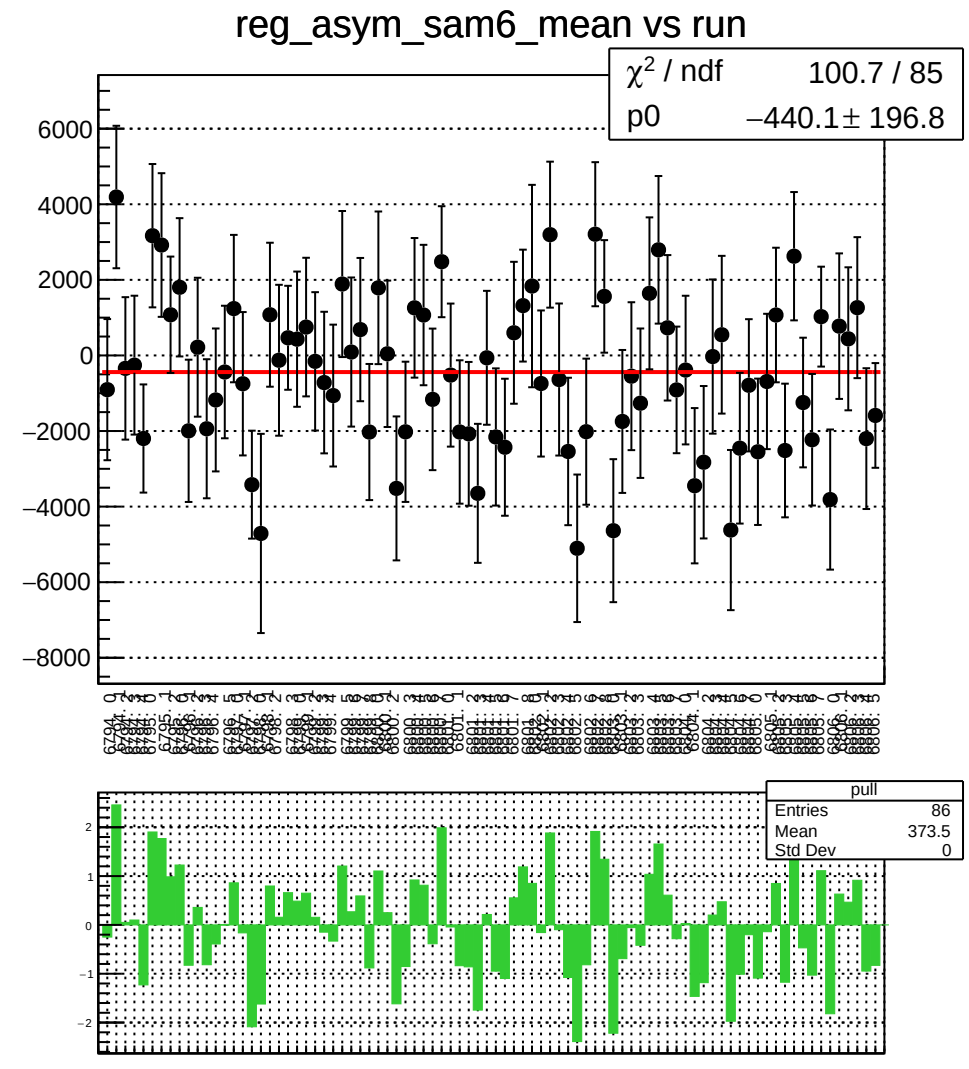

pull1D
Entries 86
Mean 0.0132
Std Dev 1

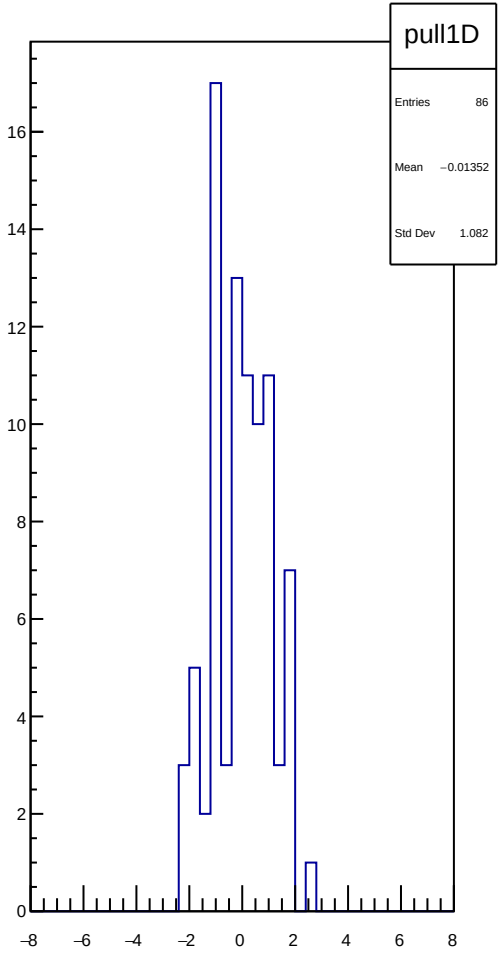

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.684e+04 / 85
p0 67.63 ± 0.05256
100
90
80
70
60
50

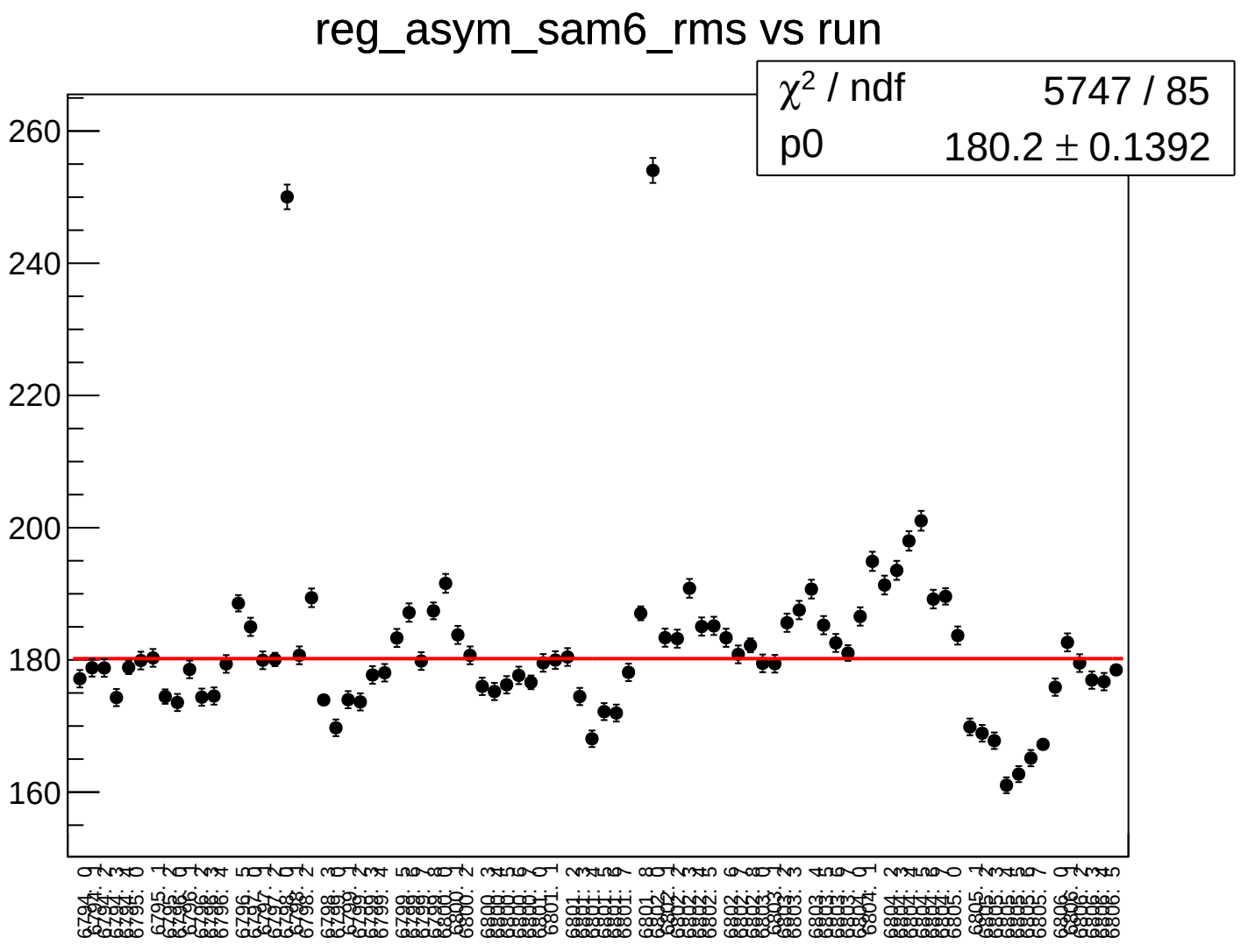

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.45 / 85
p0 2.089e−14 ± 2.349e−14
pull
Entries 86
Mean 103
Std Dev 0

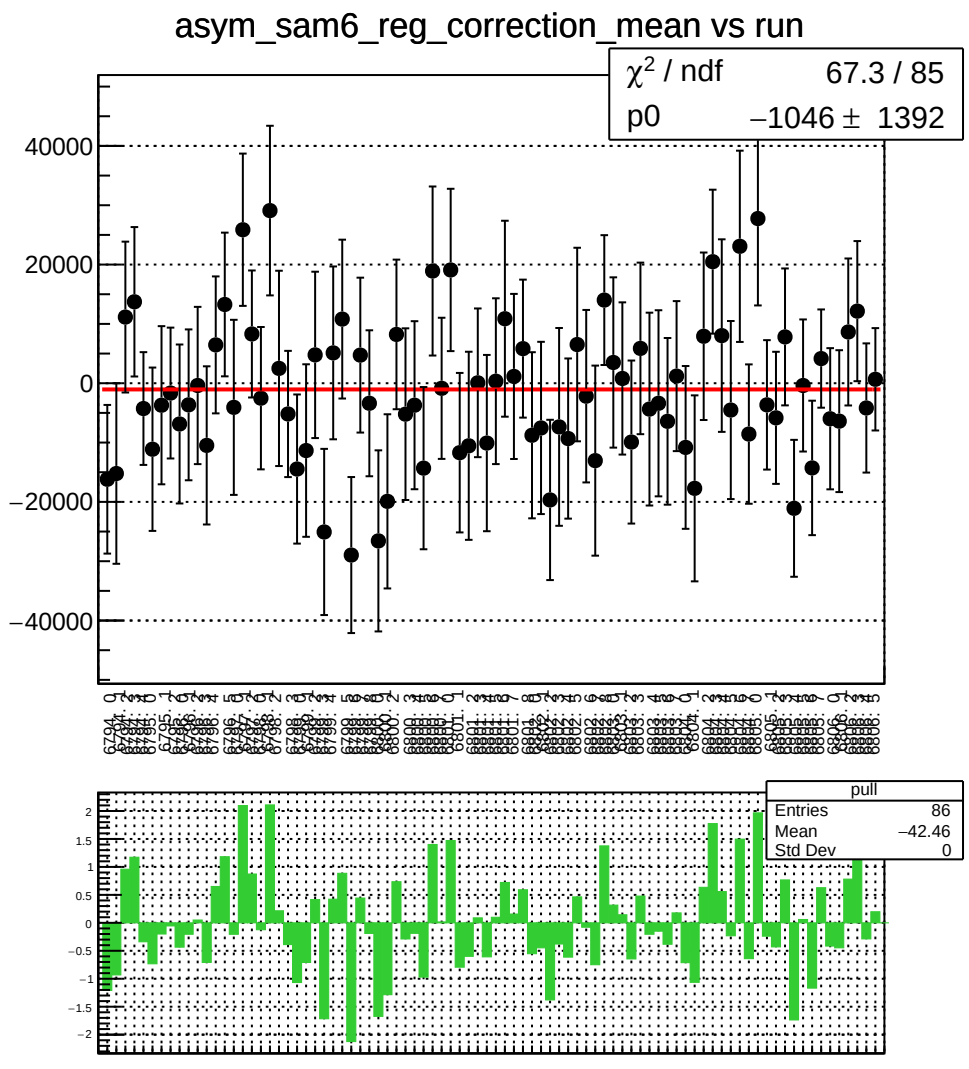

pull1D
Entries 86
Mean −0.1118
Std Dev 0.9787

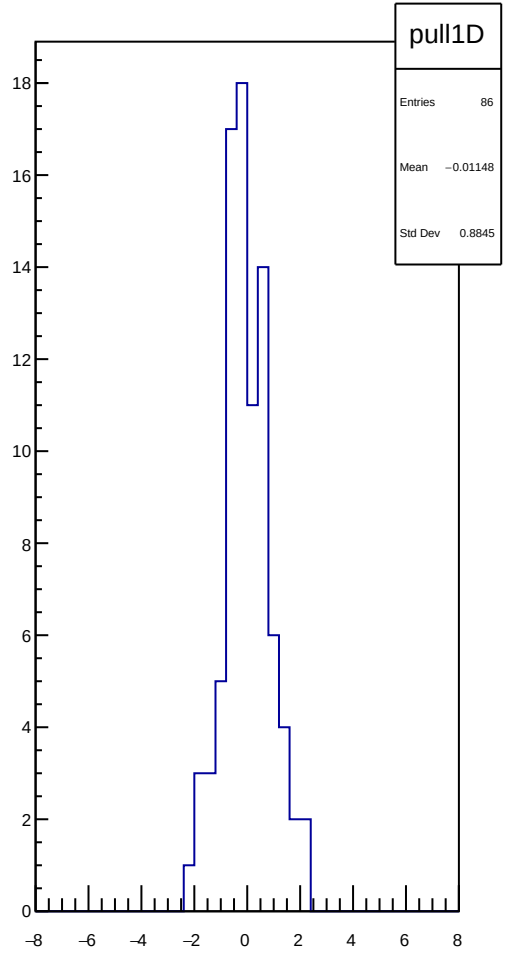

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 4.848e+05 / 85
p0 1.818e−11 ± 1.661e−14

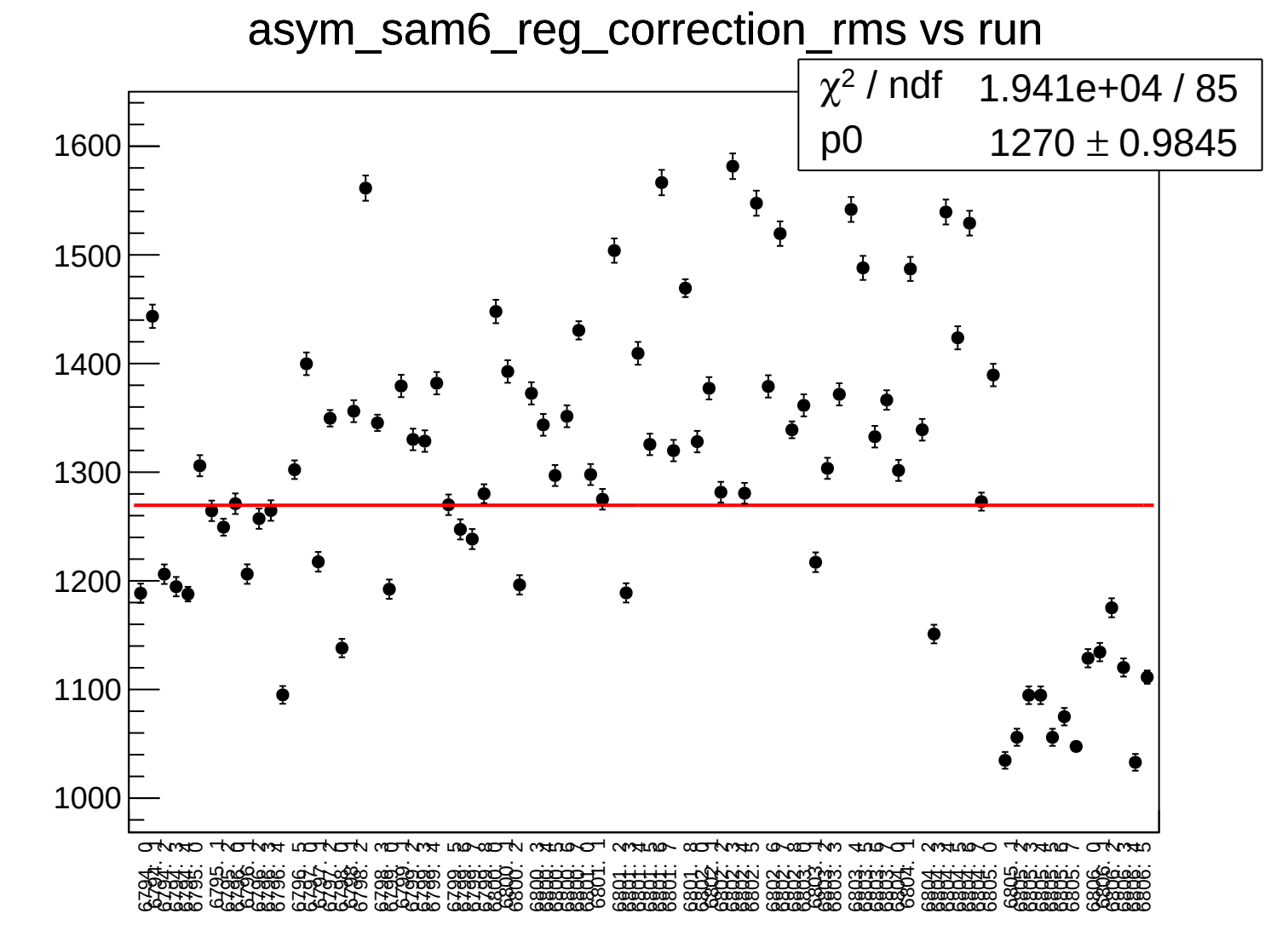

reg_asym_sam6_mean vs run
χ² / ndf 100.7 / 85
p0 −440.1± 196.8
pull
Entries 86
Mean 373.5
Std Dev 0

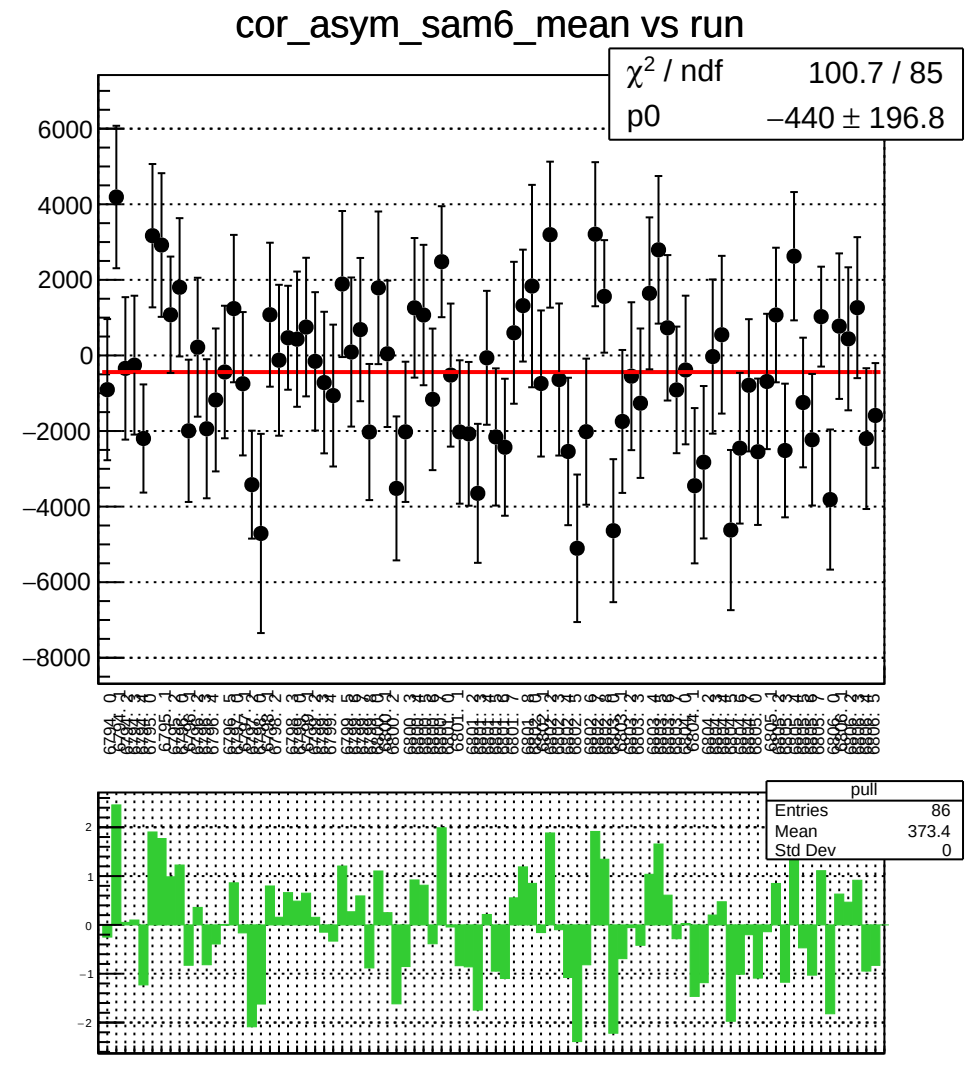

pull1D
Entries 86
Mean −0.01352
Std Dev 1.082

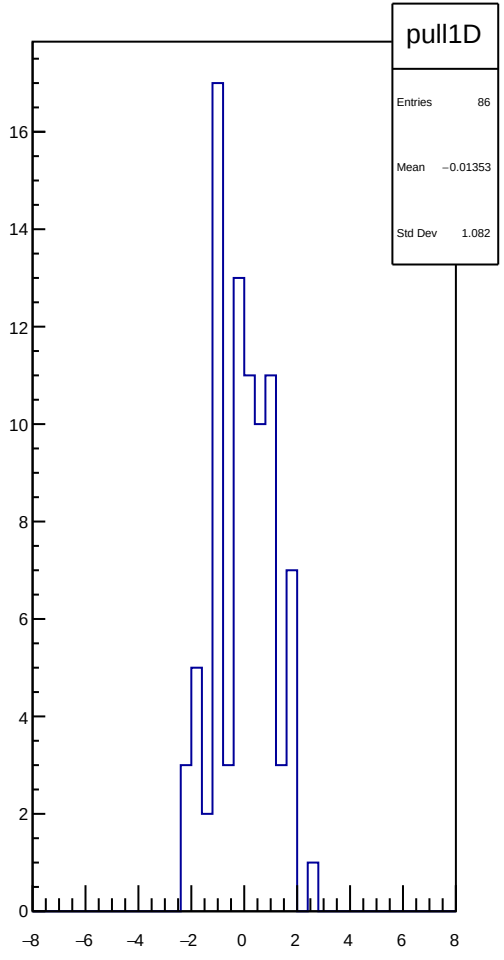

reg_asym_sam6_rms vs run
χ² / ndf 5747 / 85
p0 180.2 ± 0.1392
260
240
220
200
180
160

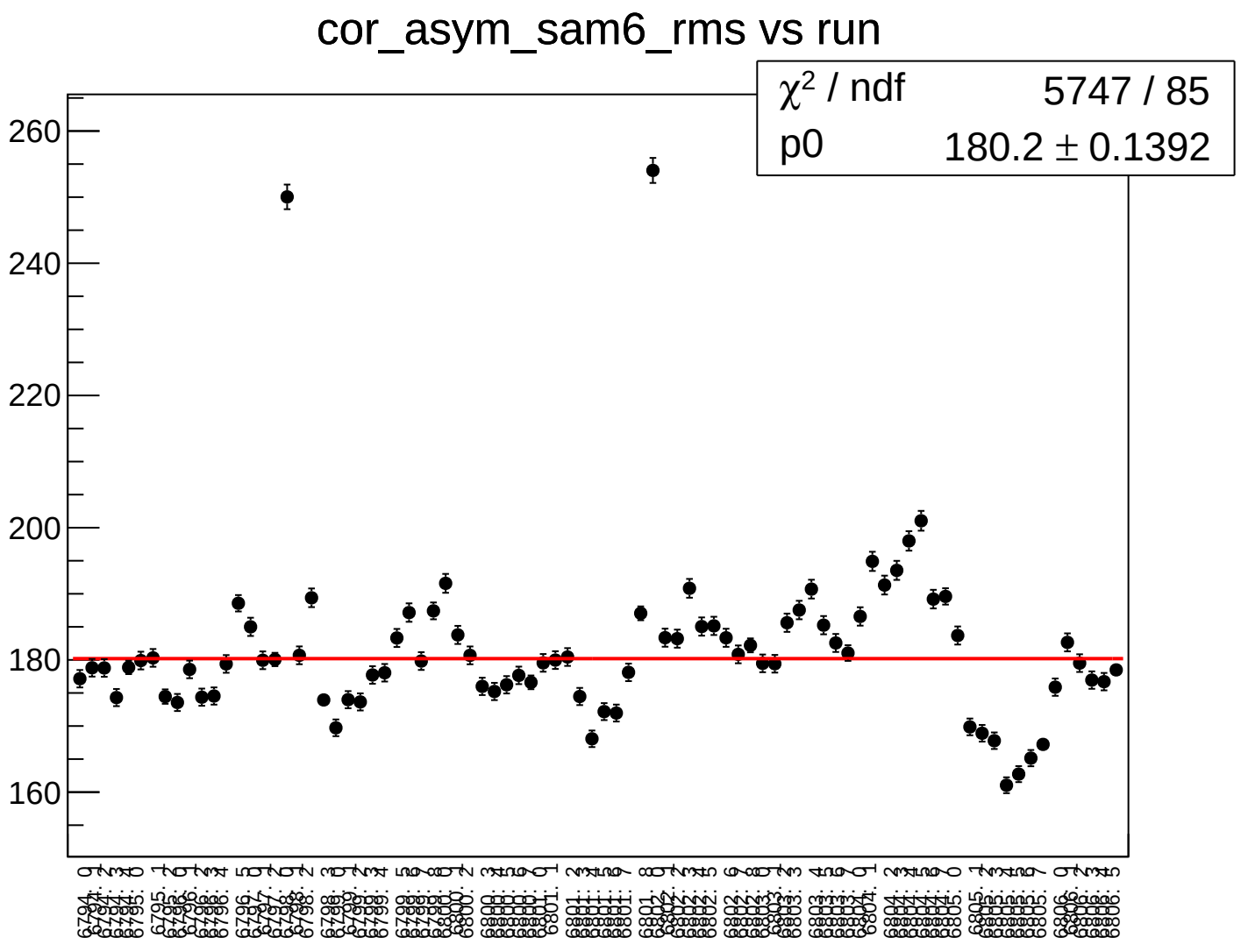

asym_sam6_reg_correction_mean vs run
χ² / ndf 67.3 / 85
p0 −1046 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −42.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

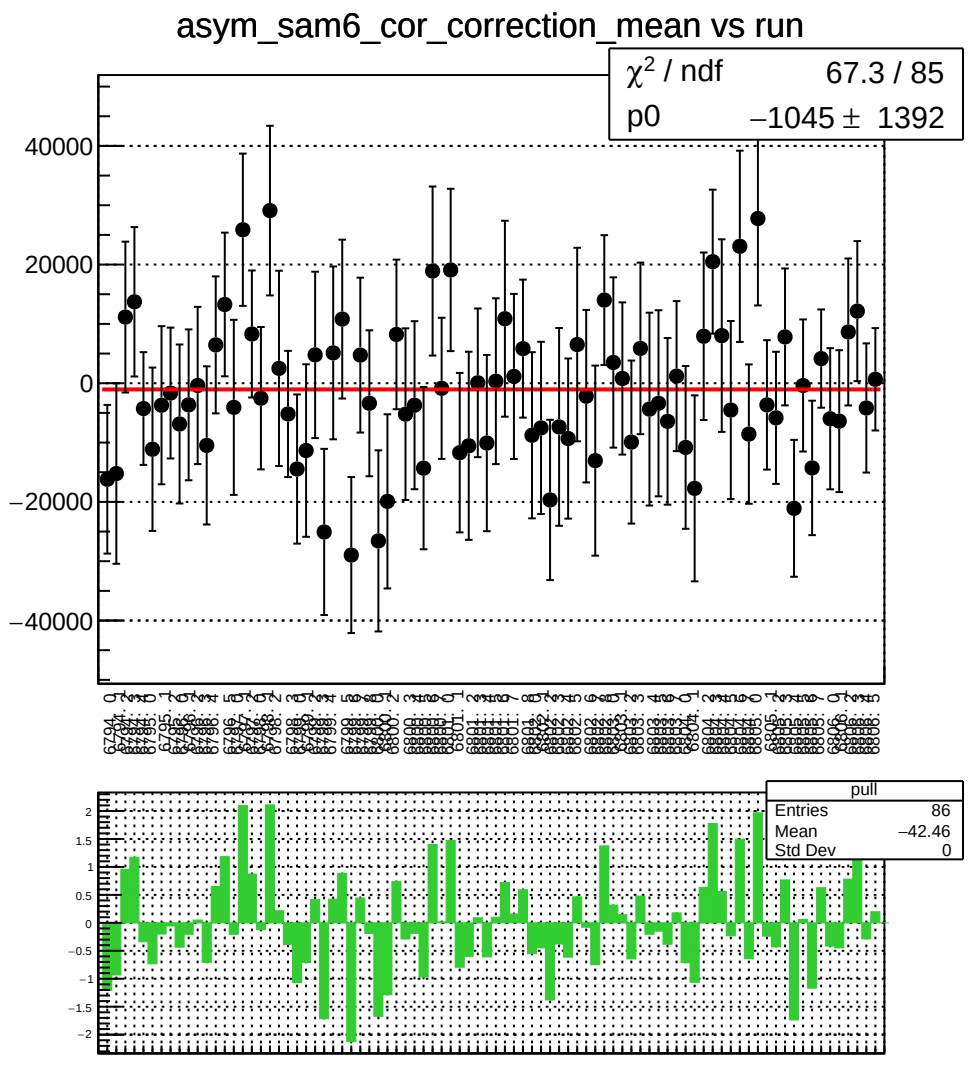

pull1D
Entries 86
Mean −0.01148
Std Dev 0.8845
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

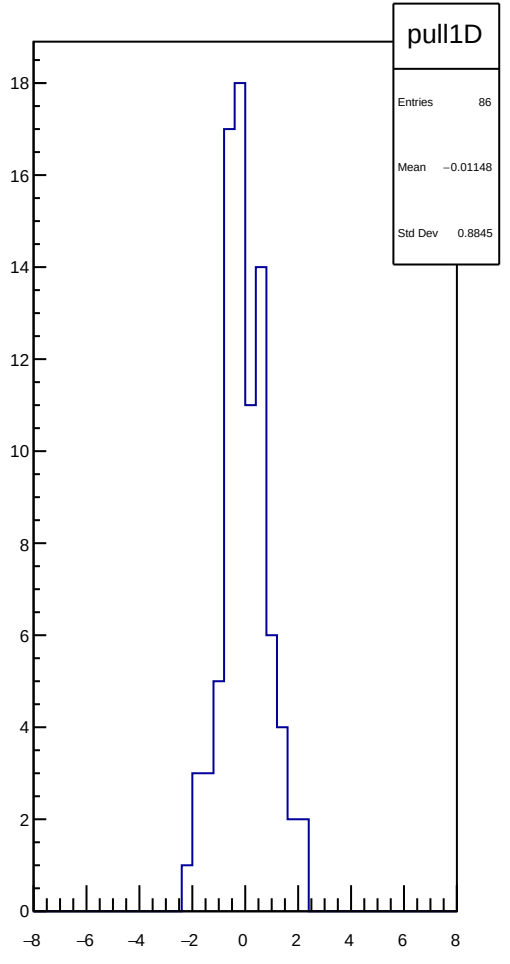

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.941e+04 / 85
p0 1270 ± 0.9845
1600
1500
1400
1300
1200
1100
1000

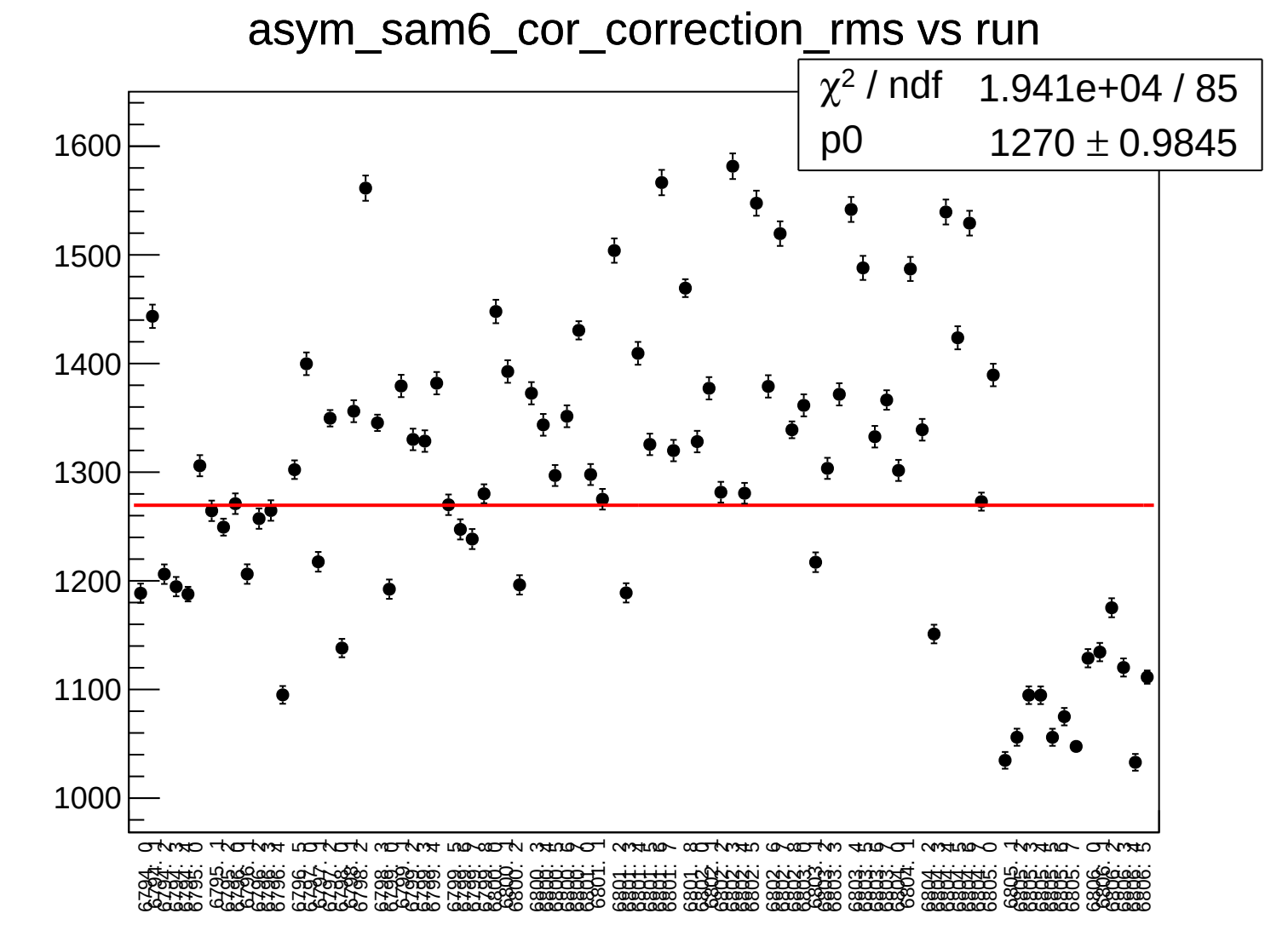

cor_asym_sam6_mean vs run
χ² / ndf 100.7 / 85
p0 −440 ± 196.8
pull
Entries 86
Mean 373.4
Std Dev 0

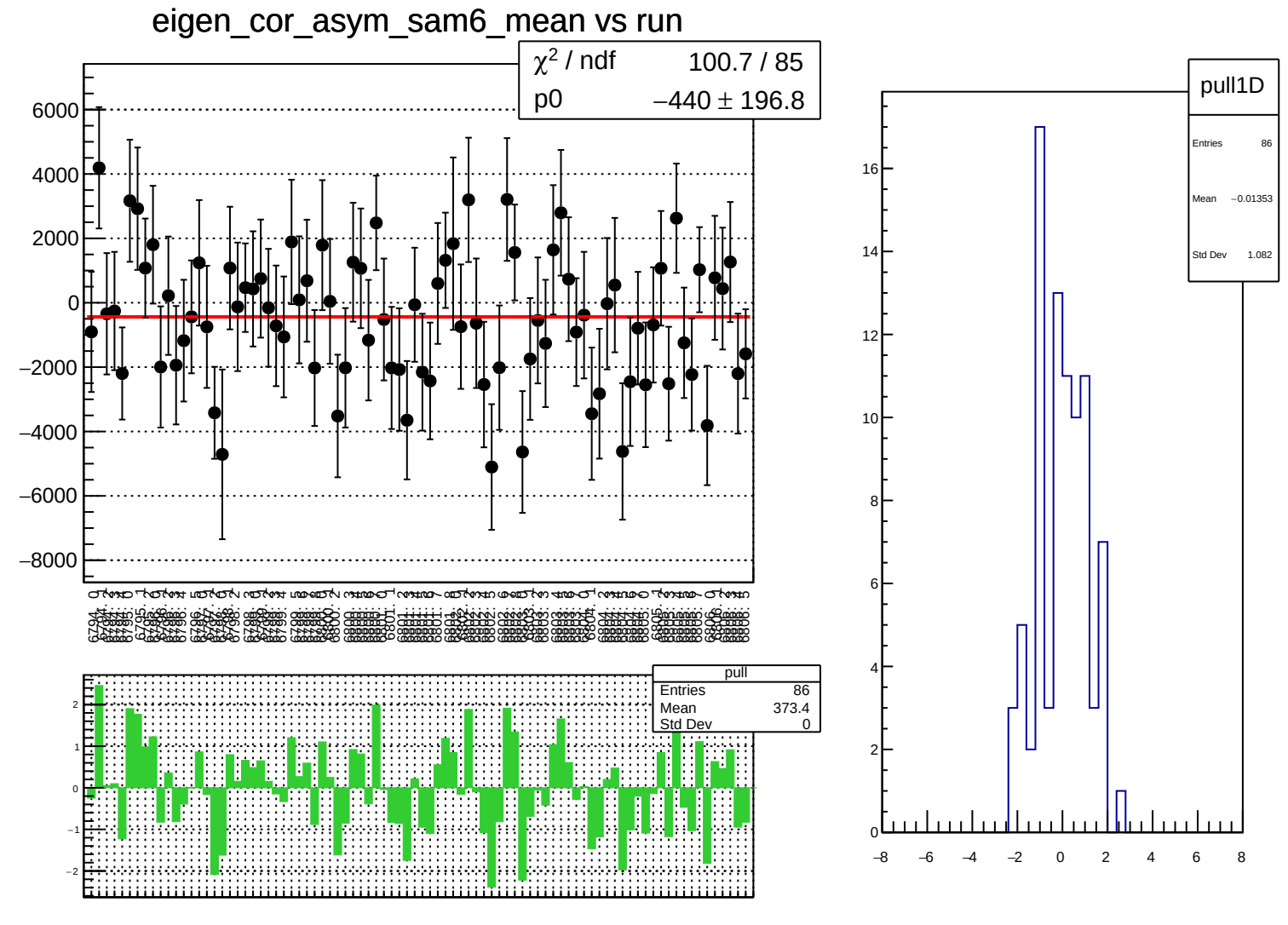

pull1D
Entries 86
Mean −0.01353
Std Dev 1.082

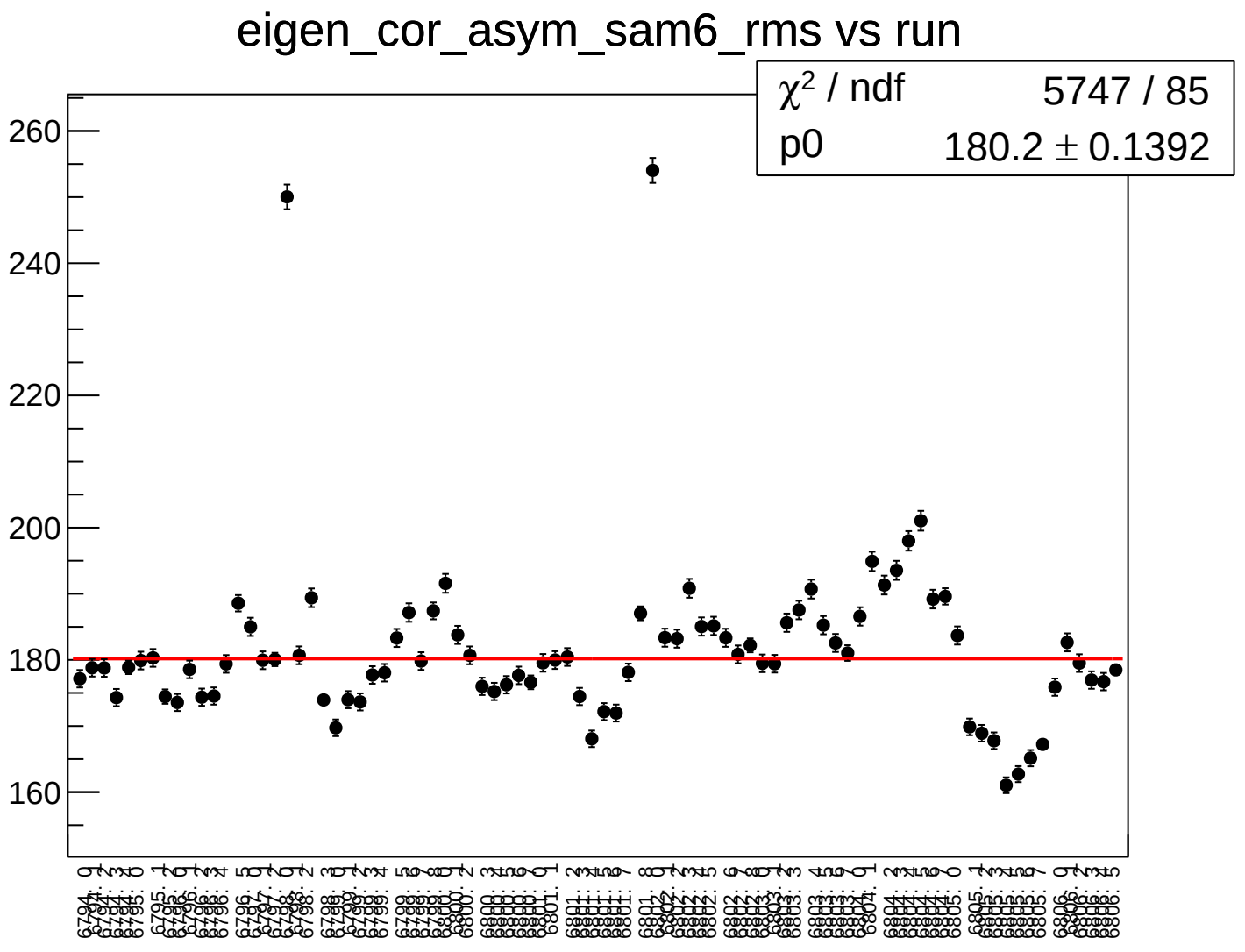

cor_asym_sam6_rms vs run
χ² / ndf 5747 / 85
p0 180.2 ± 0.1392
260
240
220
200
180
160

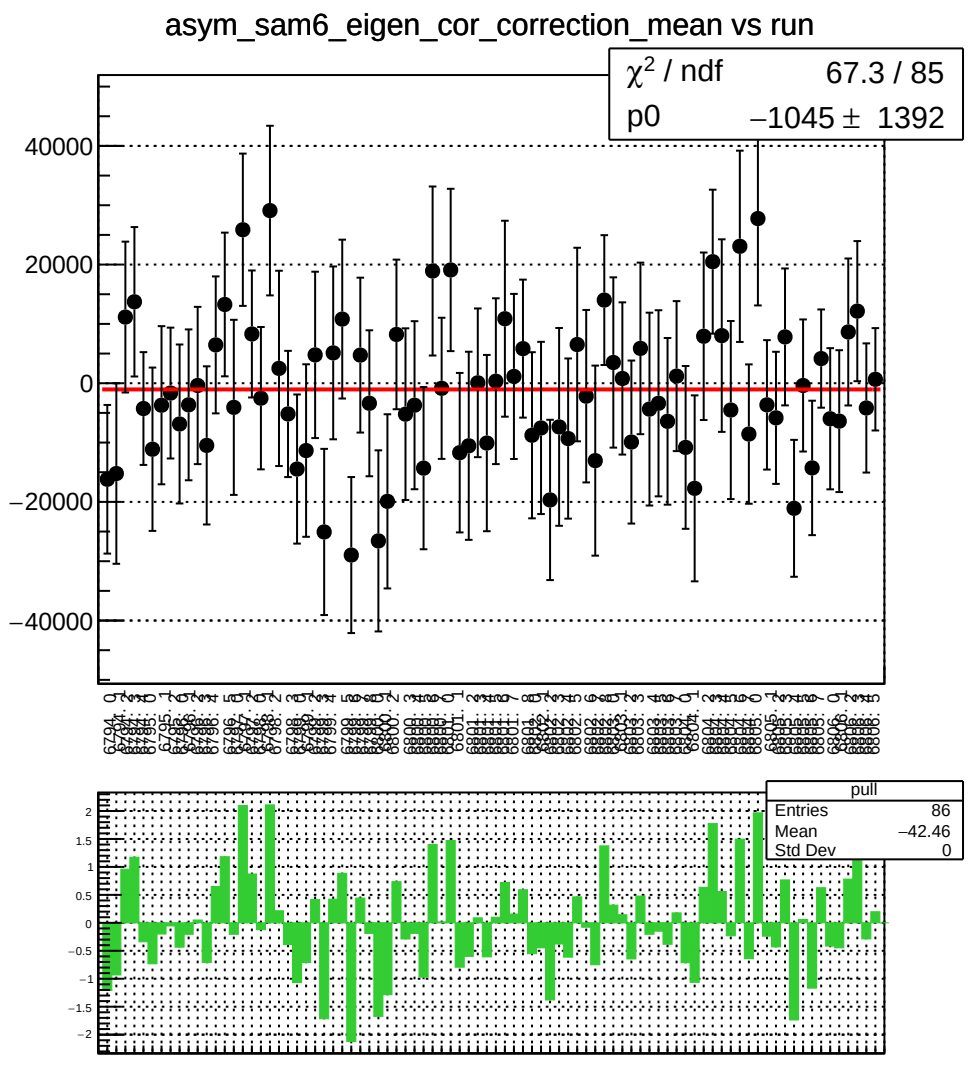

asym_sam6_cor_correction_mean vs run
χ² / ndf 67.3 / 85
p0 −1045 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −42.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

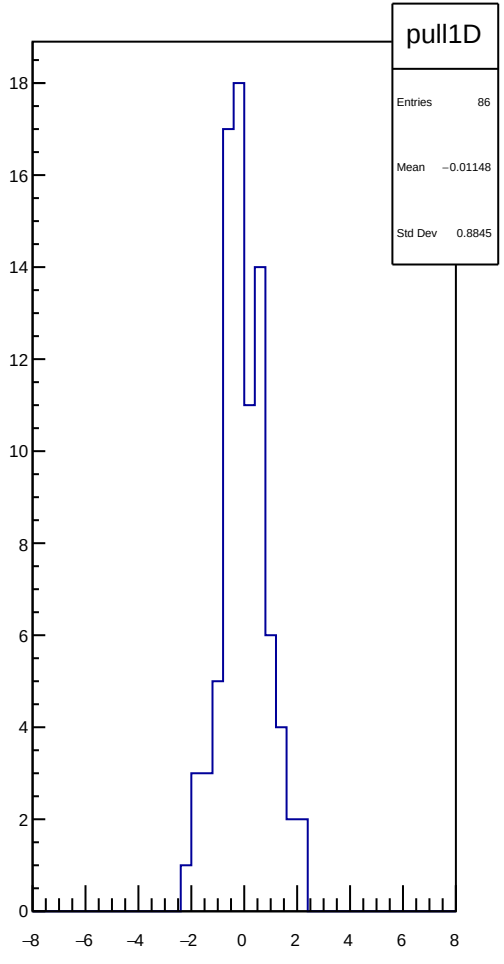

pull1D
Entries 86
Mean −0.01148
Std Dev 0.8845
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

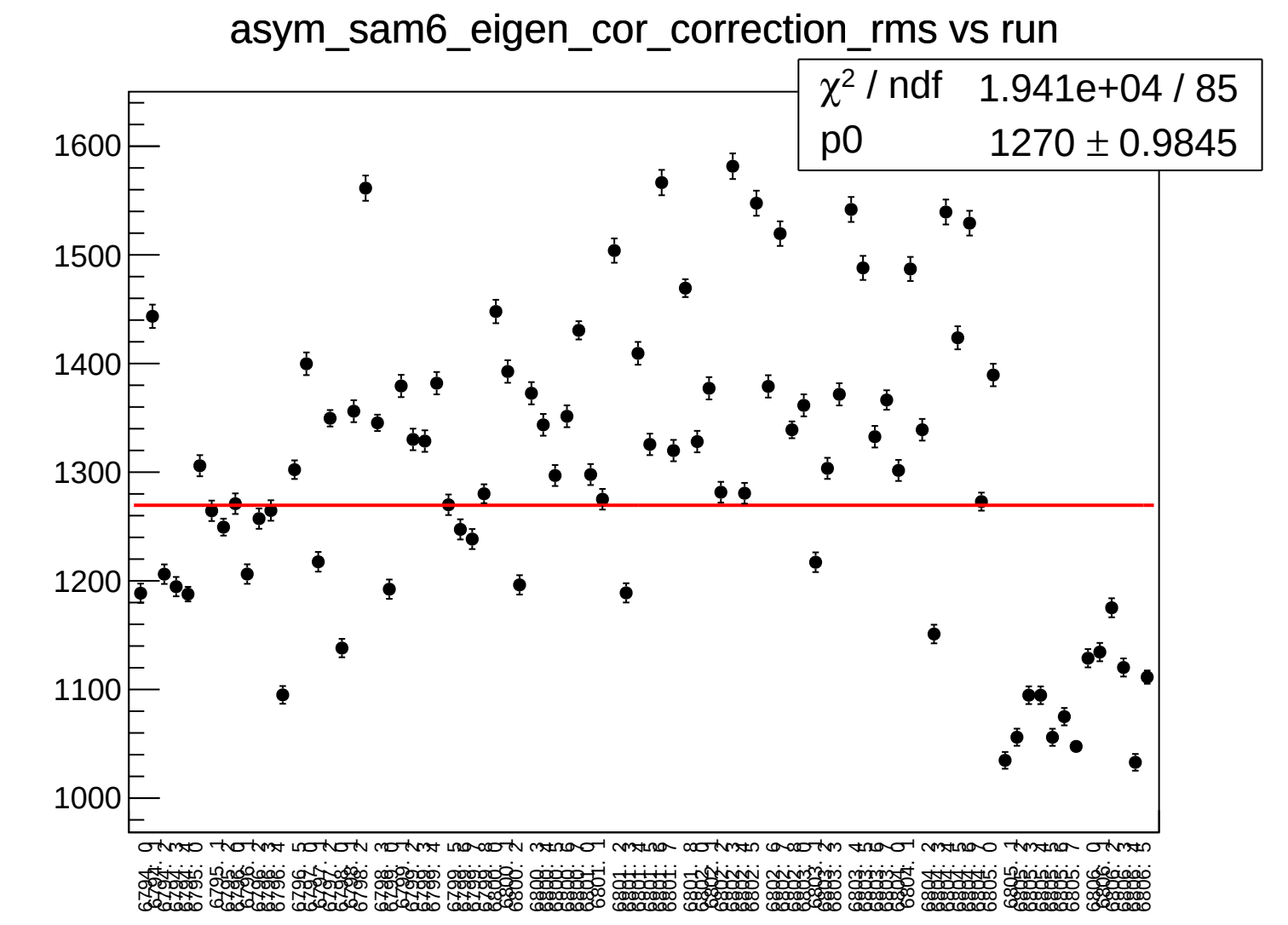

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 85
p0 1270 ± 0.9845
1600
1500
1400
1300
1200
1100
1000

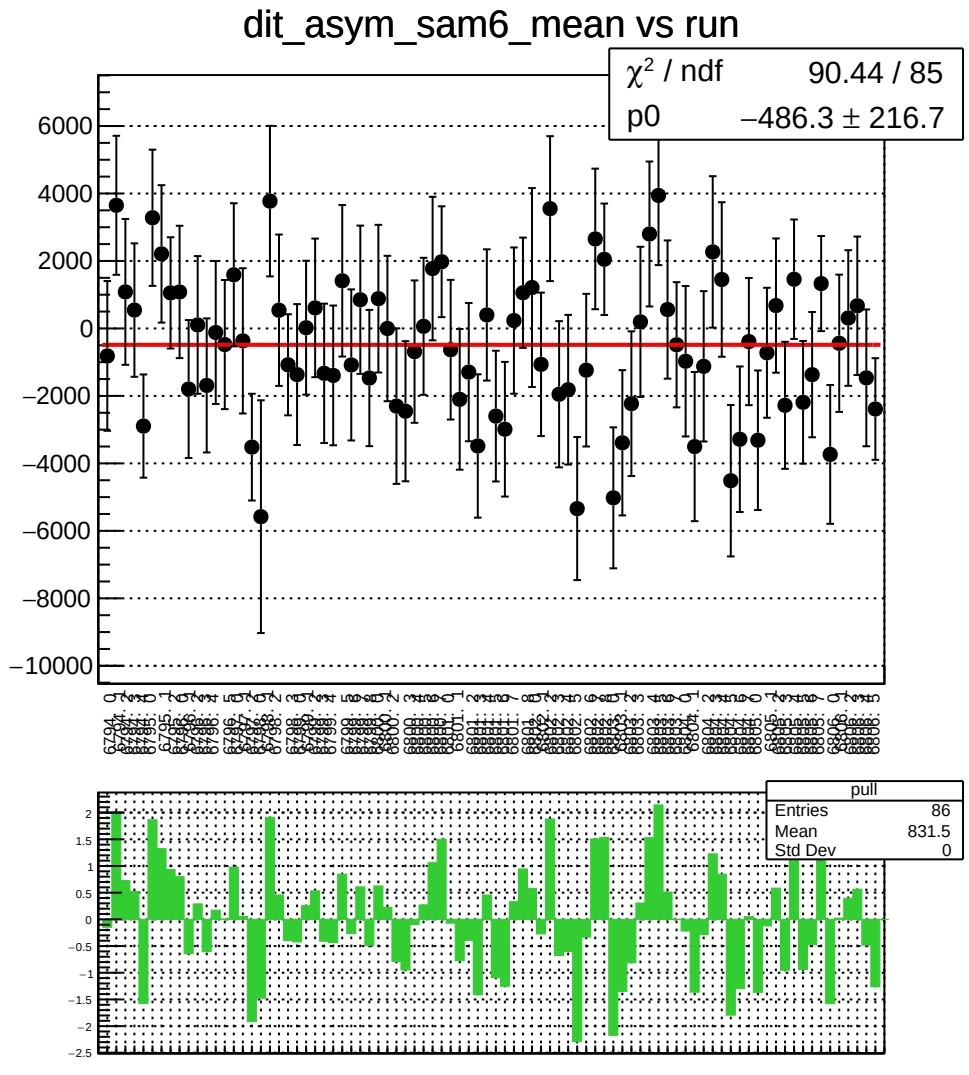

eigen_cor_asym_sam6_mean vs run
χ² / ndf 100.7 / 85
p0 −440 ± 196.8
pull
Entries 86
Mean 373.4
Std Dev 0
pull1D
Entries 86
Mean −0.01353
Std Dev 1.082

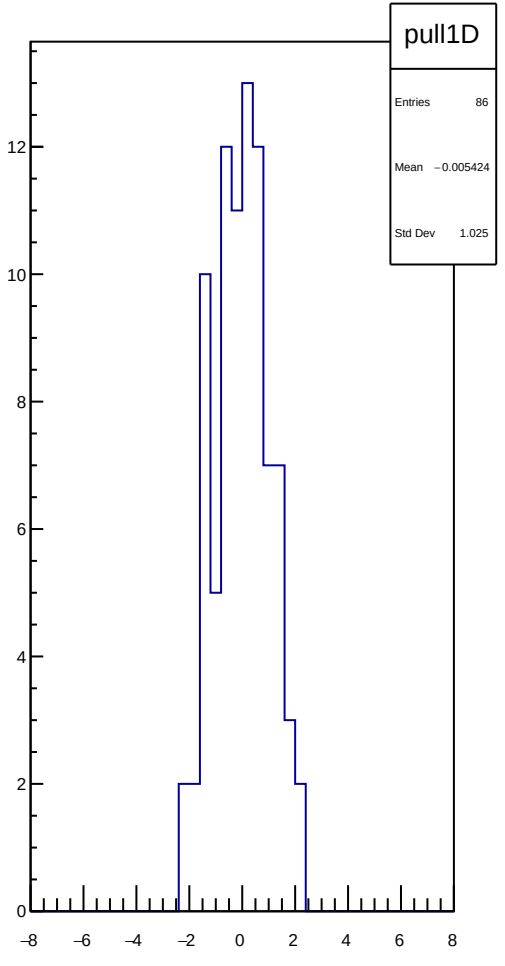

eigen_cor_asym_sam6_rms vs run
χ² / ndf 5747 / 85
p0 180.2 ± 0.1392
260
240
220
200
180
160

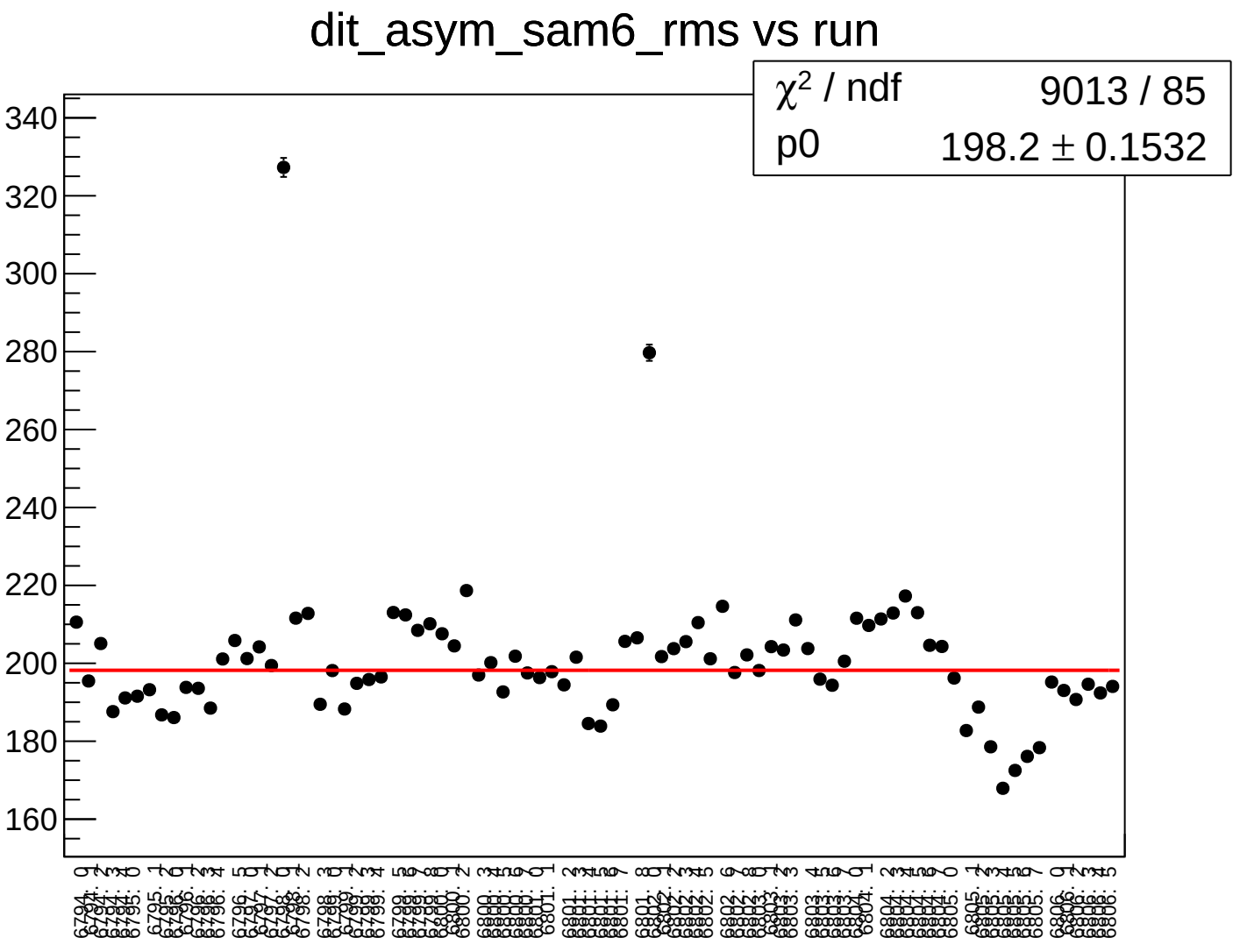

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 67.3 / 85
p0 −1045 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −42.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

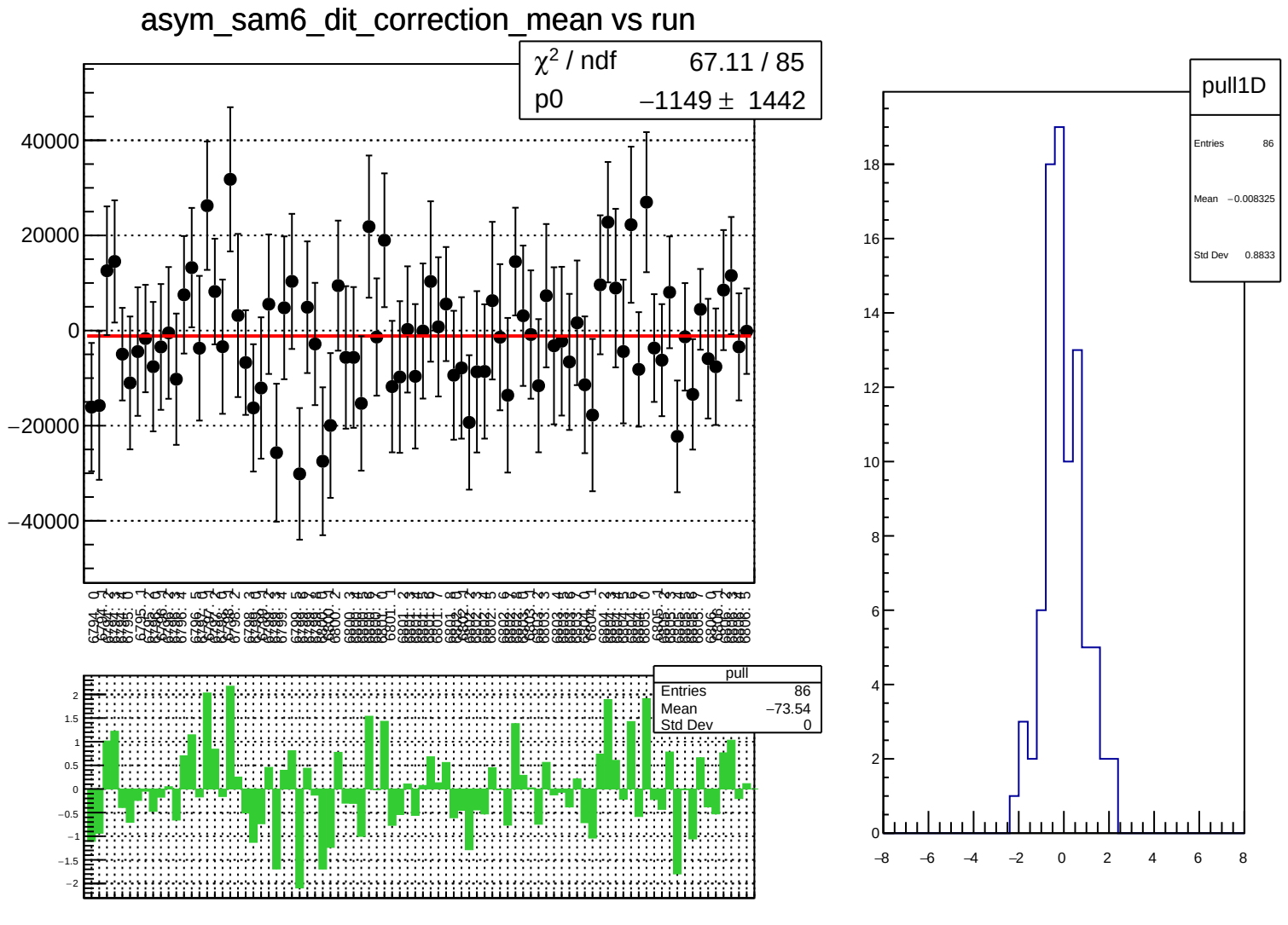

pull1D
Entries 86
Mean −0.01148
Std Dev 0.8845
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

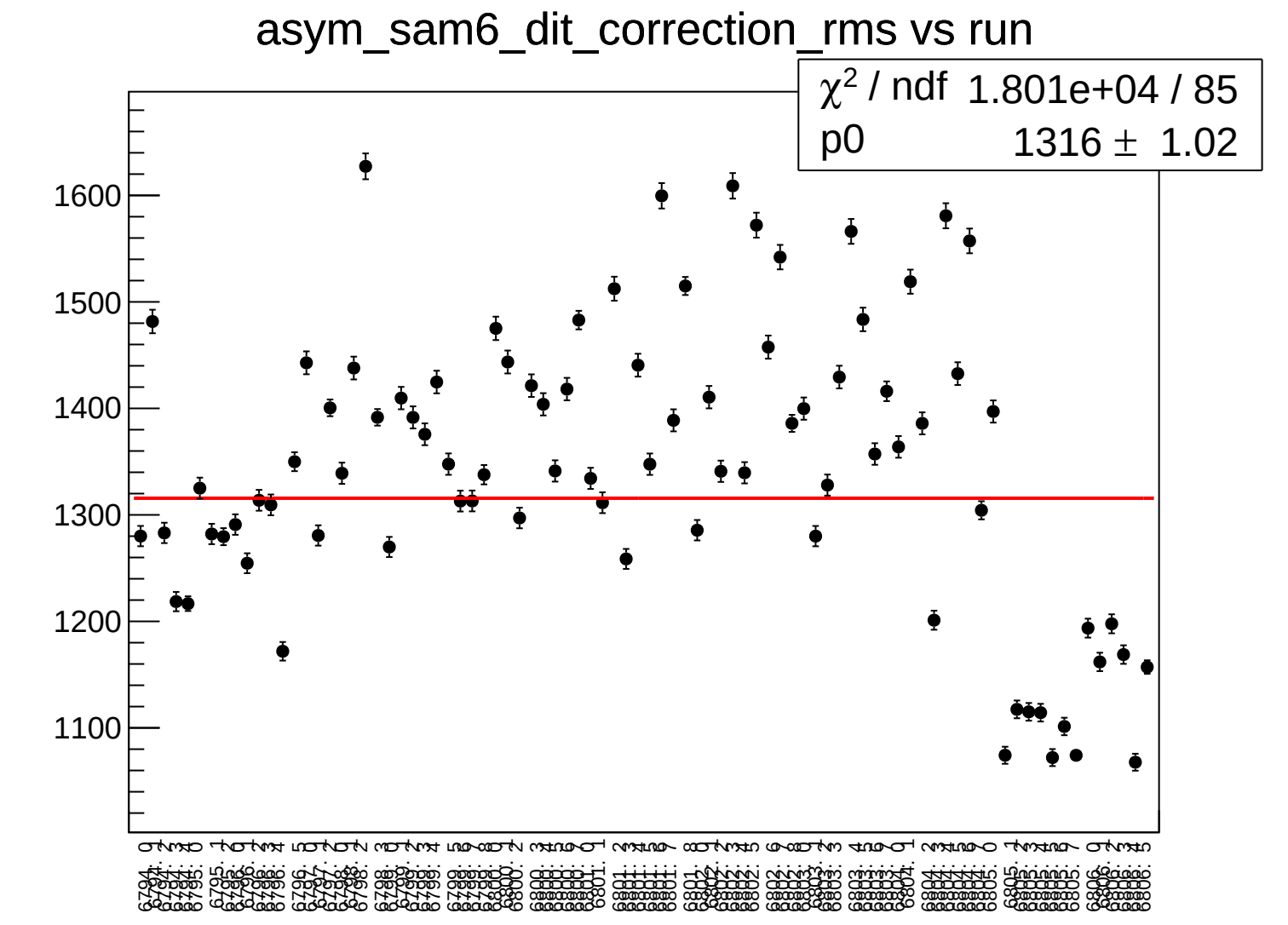

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 1.941e+04 / 85
p0 1270 ± 0.9845
1600
1500
1400
1300
1200
1100
1000

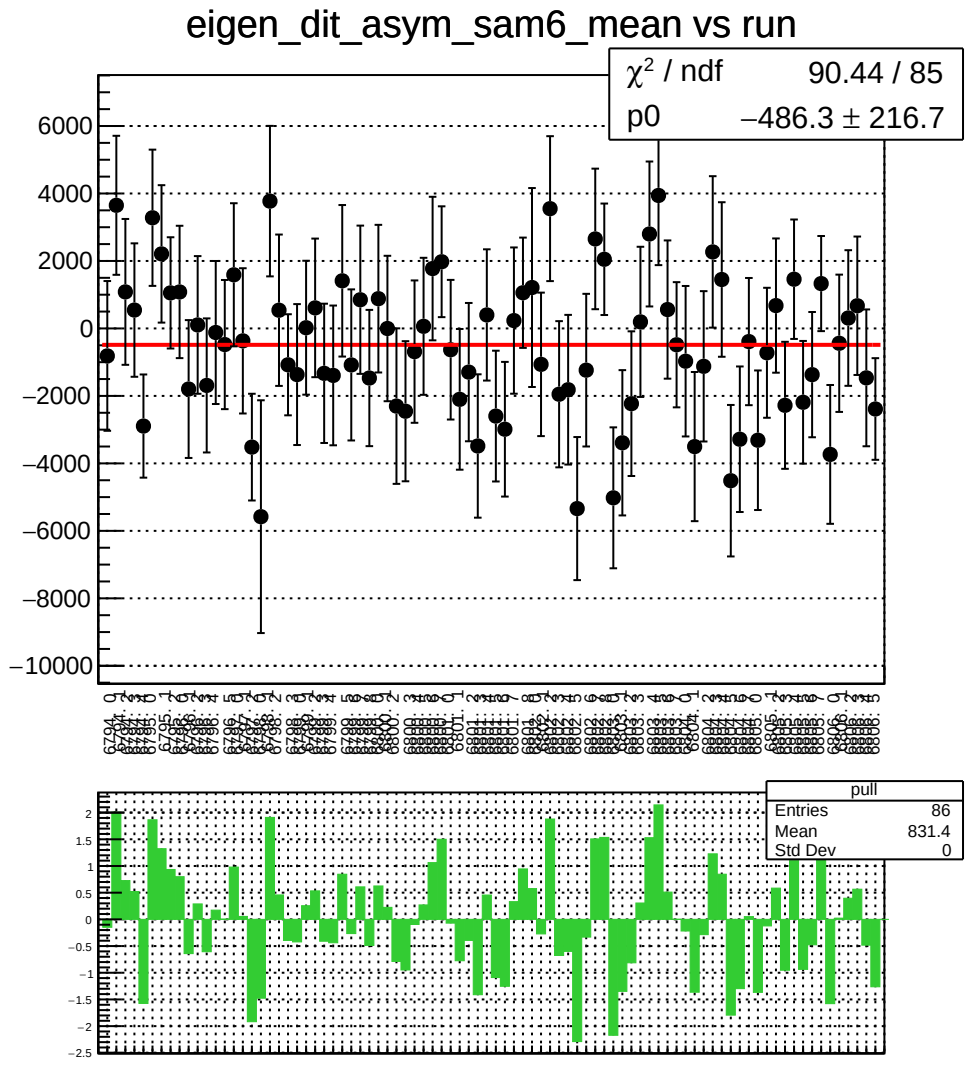

dit_asym_sam6_mean vs run
χ² / ndf 90.44 / 85
p0 −486.3 ± 216.7
pull
Entries 86
Mean 831.5
Std Dev 0

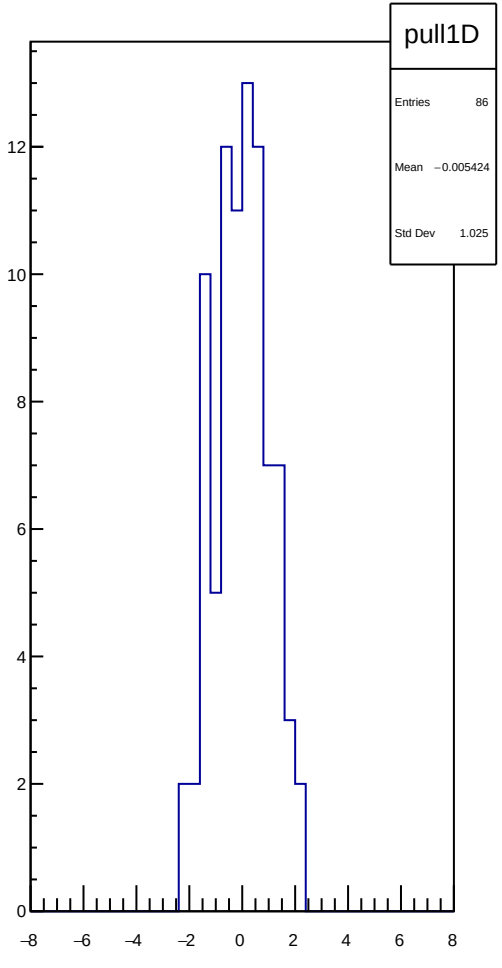

pull1D
Entries 86
Mean −0.005424
Std Dev 1.025

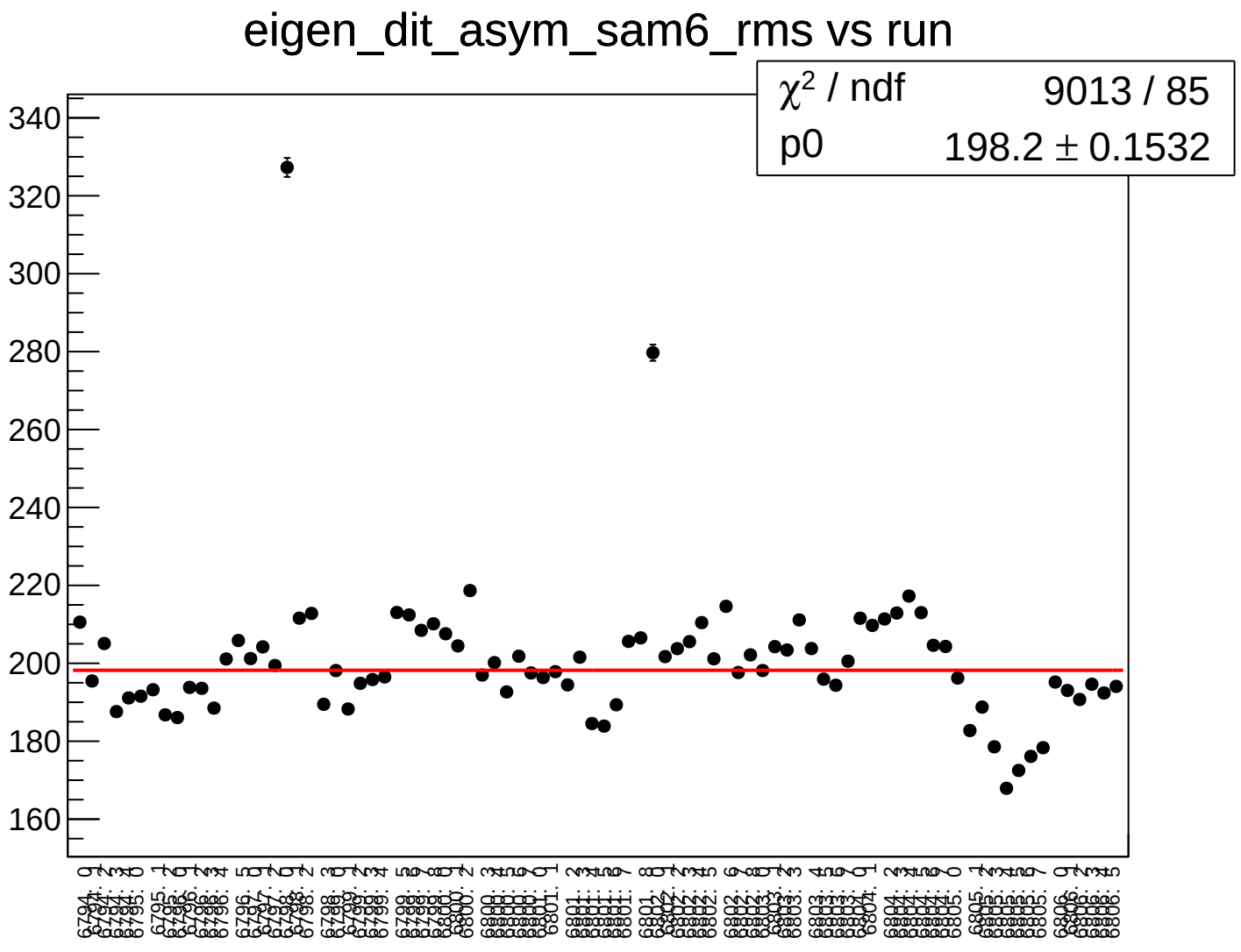

dit_asym_sam6_rms vs run
χ² / ndf 9013 / 85
p0 198.2 ± 0.1532
340
320
300
280
260
240
220
200
180
160

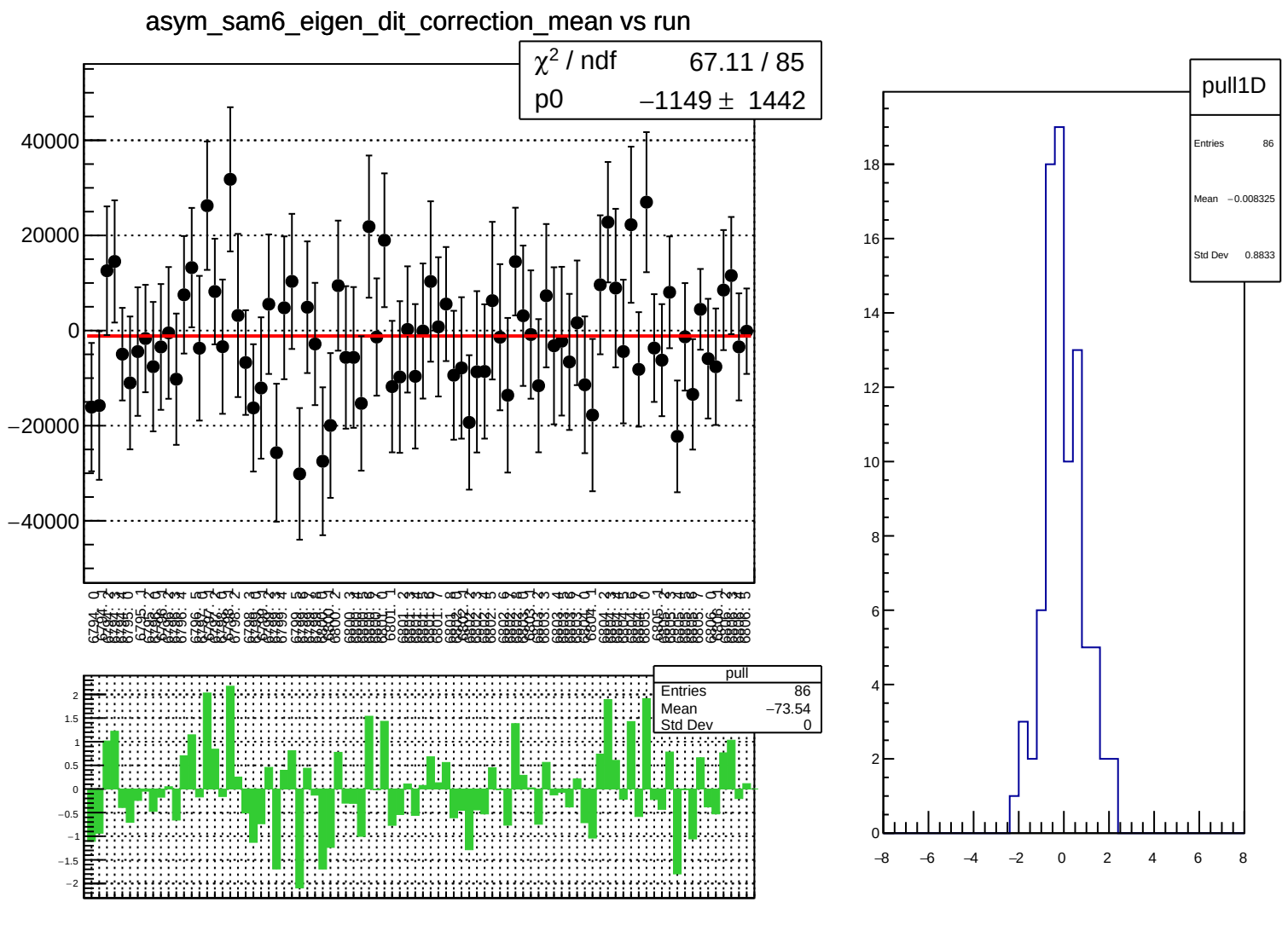

asym_sam6_dit_correction_mean vs run
χ² / ndf 67.11 / 85
p0 −1149 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −73.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.008325
Std Dev 0.8833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

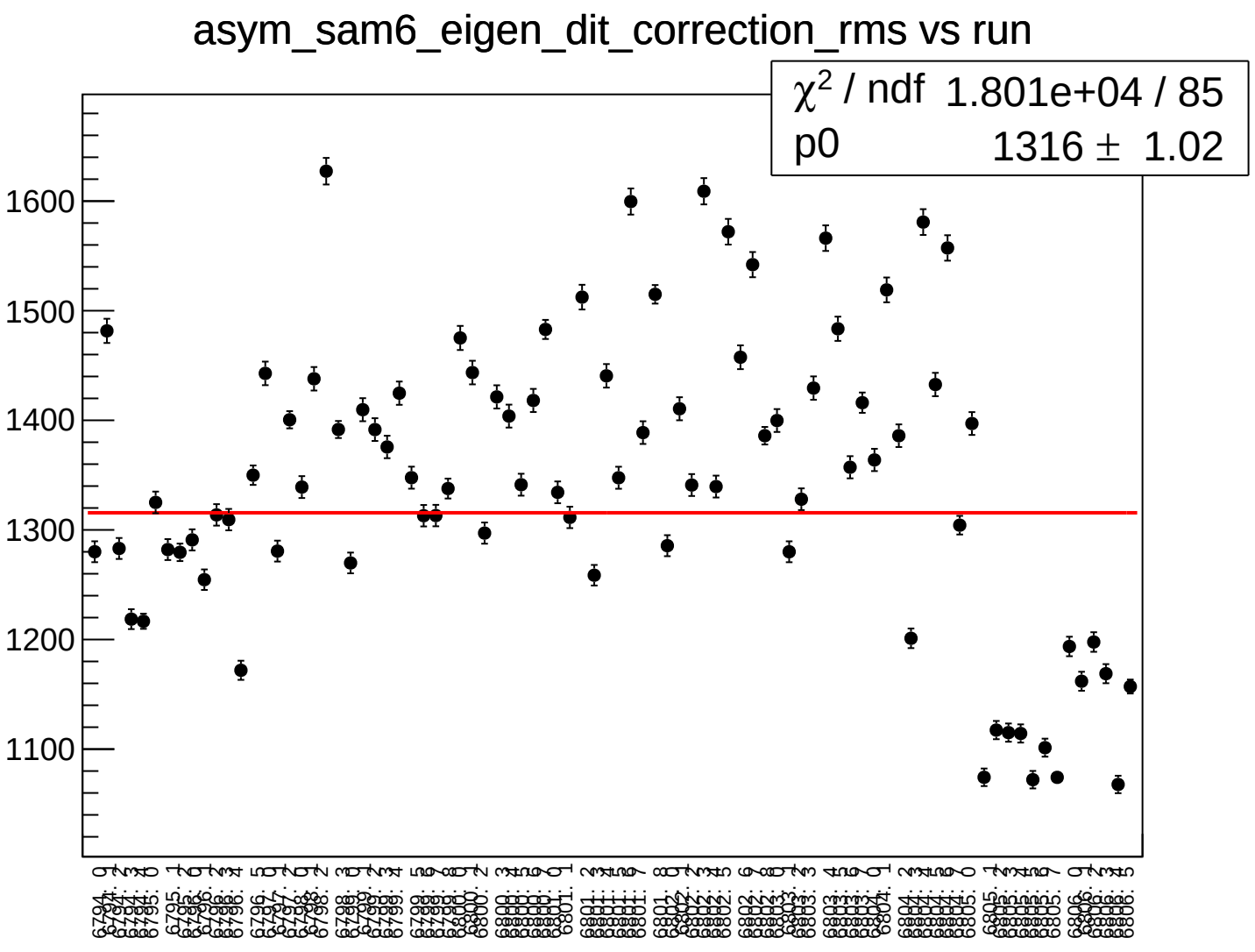

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.801e+04 / 85
p0 1316 ± 1.02
1600
1500
1400
1300
1200
1100

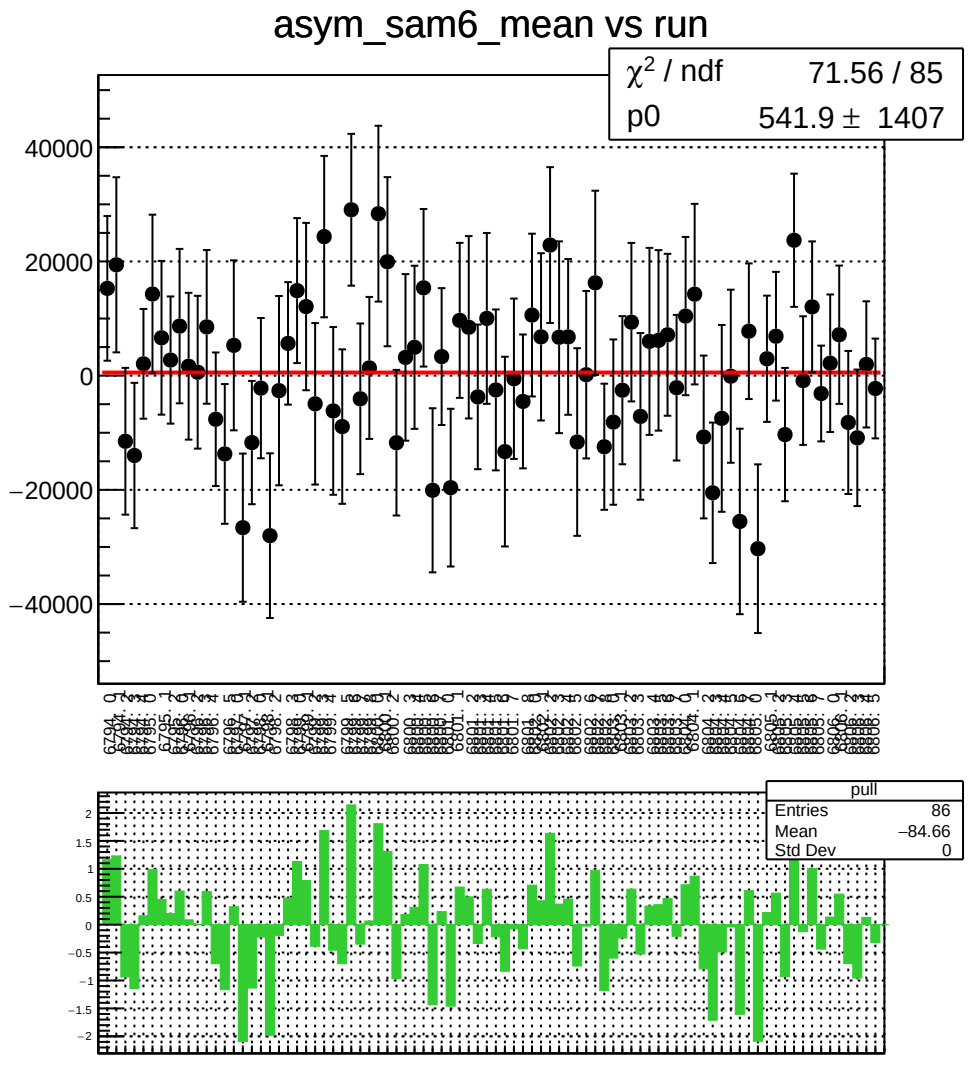

eigen_dit_asym_sam6_mean vs run
χ² / ndf 90.44 / 85
p0 −486.3 ± 216.7
pull
Entries 86
Mean 831.4
Std Dev 0

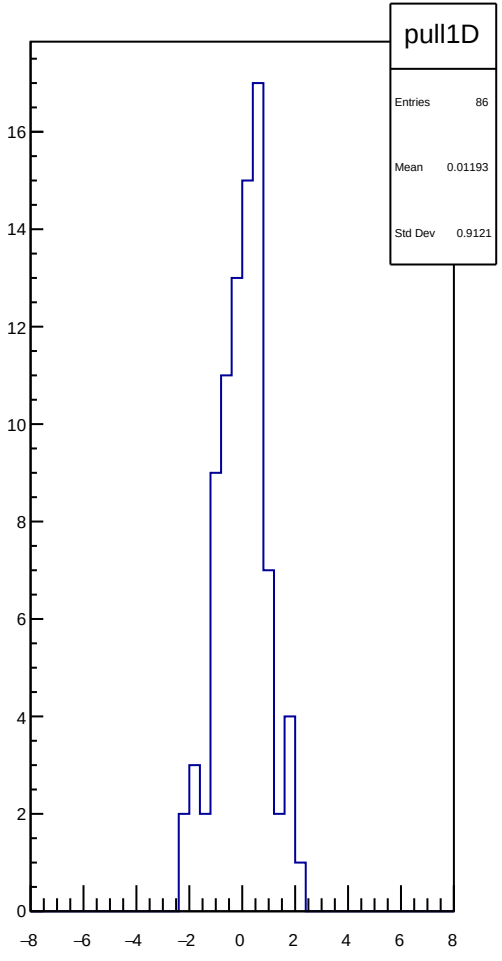

pull1D
Entries 86
Mean −0.005424
Std Dev 1.025

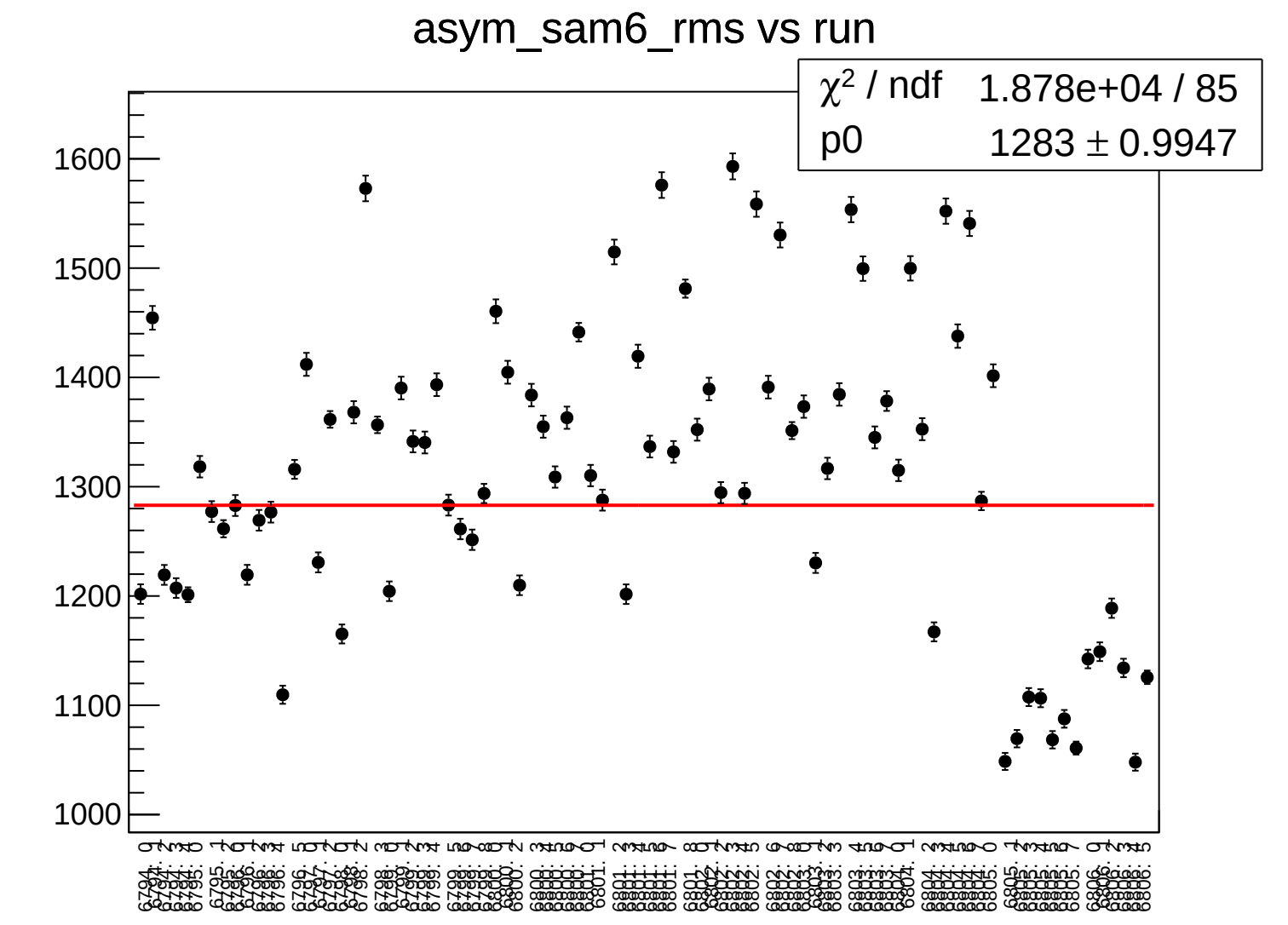

eigen_dit_asym_sam6_rms vs run
χ^2 / ndf 9013 / 85
p0 198.2 ± 0.1532
340
320
300
280
260
240
220
200
180
160

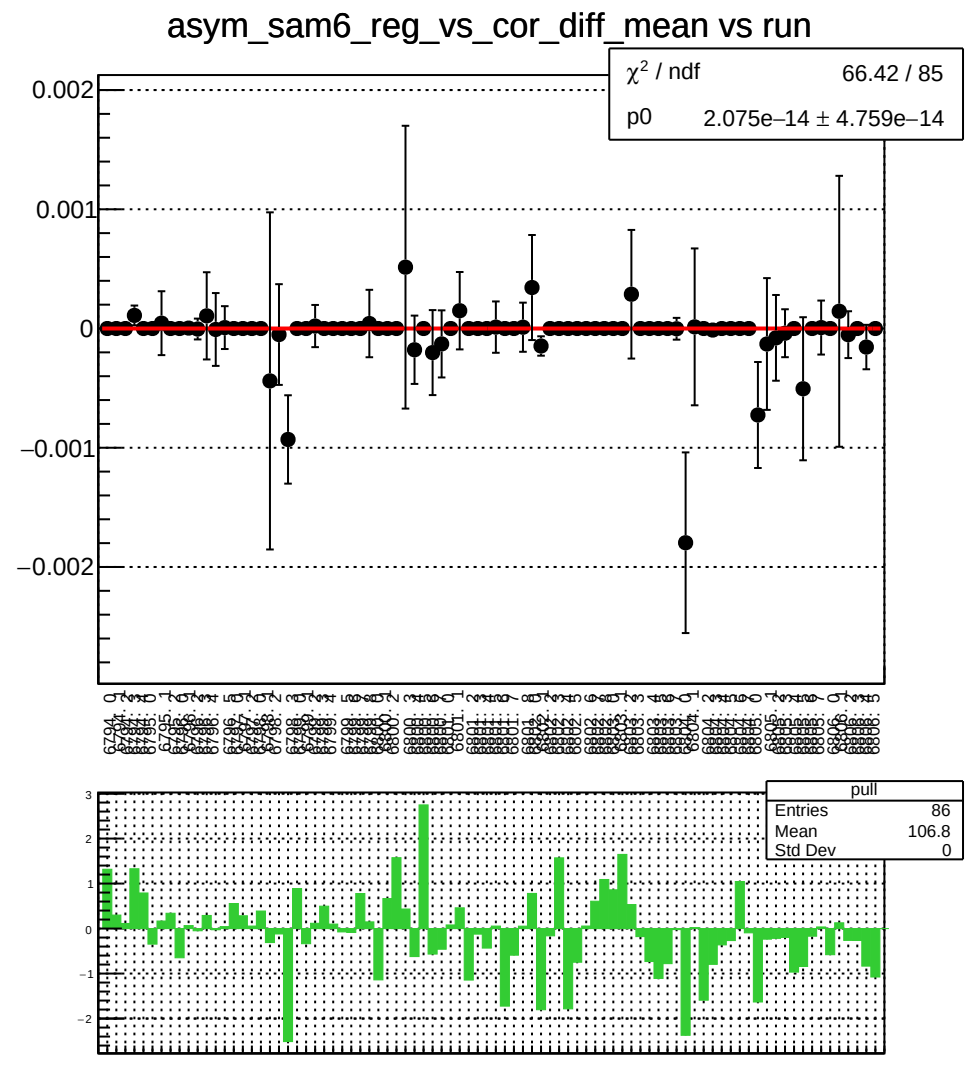

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 67.11 / 85
p0 −1149 ± 1442
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −73.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.008325
Std Dev 0.8833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

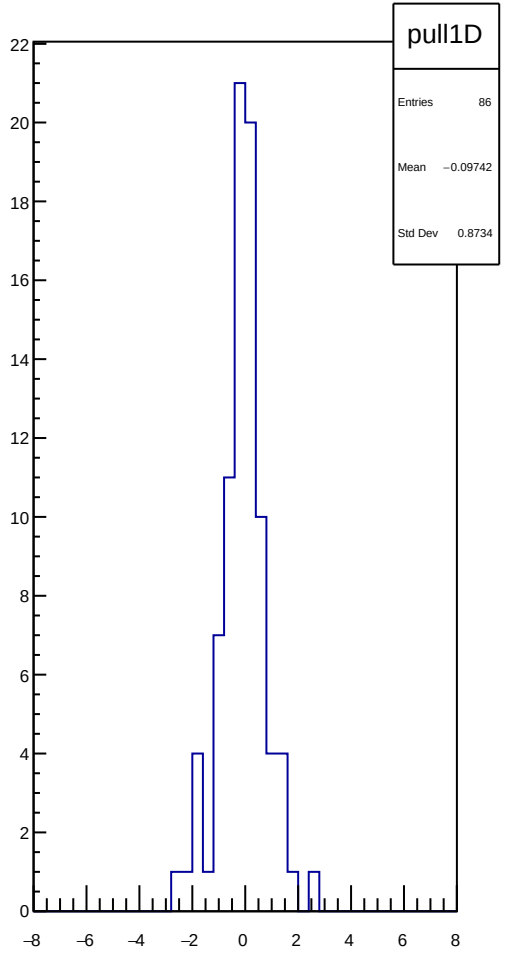

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.801e+04 / 85
p0 1316 ± 1.02
1600
1500
1400
1300
1200
1100

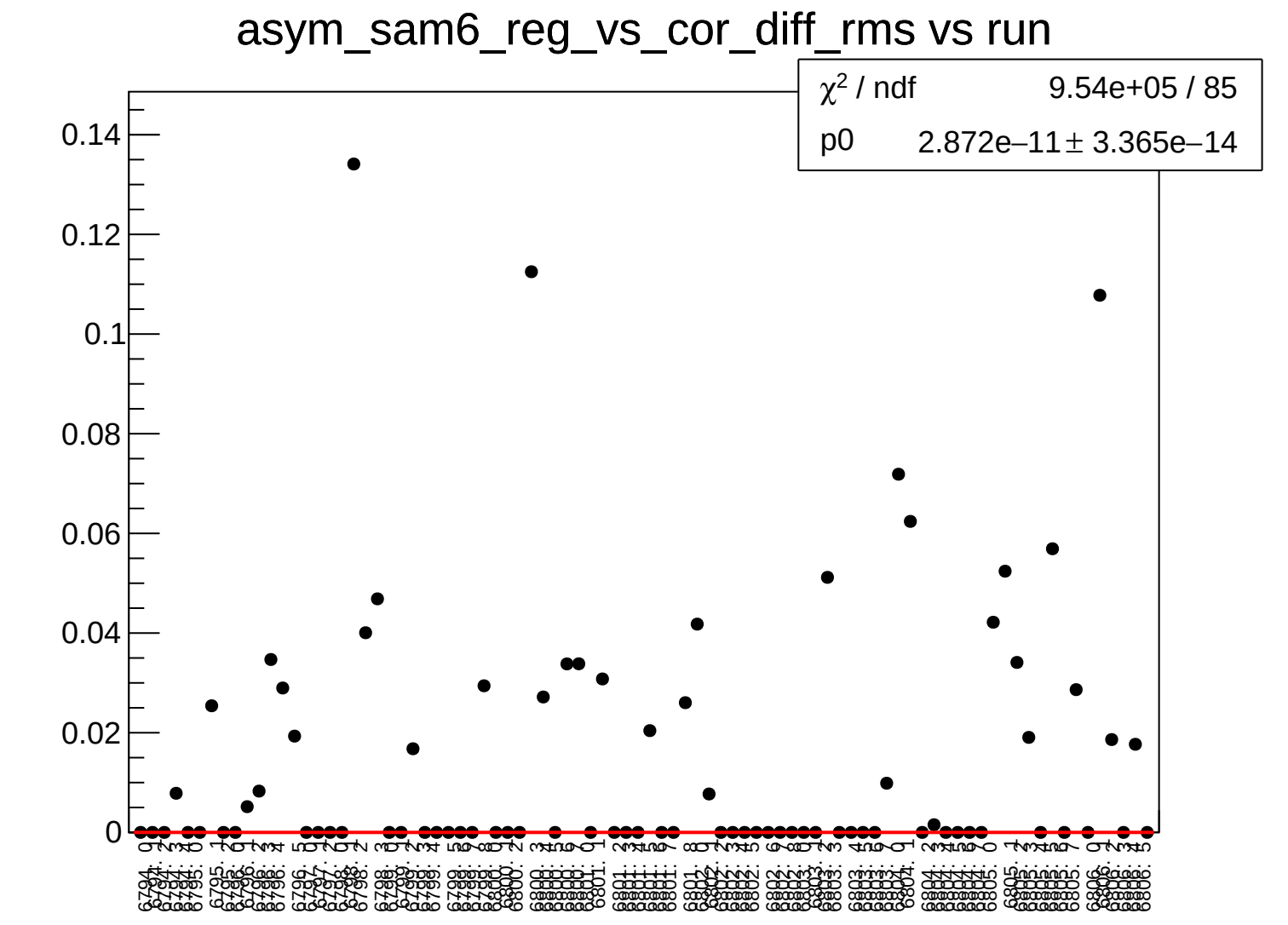

asym_sam6_mean vs run
χ² / ndf 71.56 / 85
p0 541.9 ± 1407
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −84.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

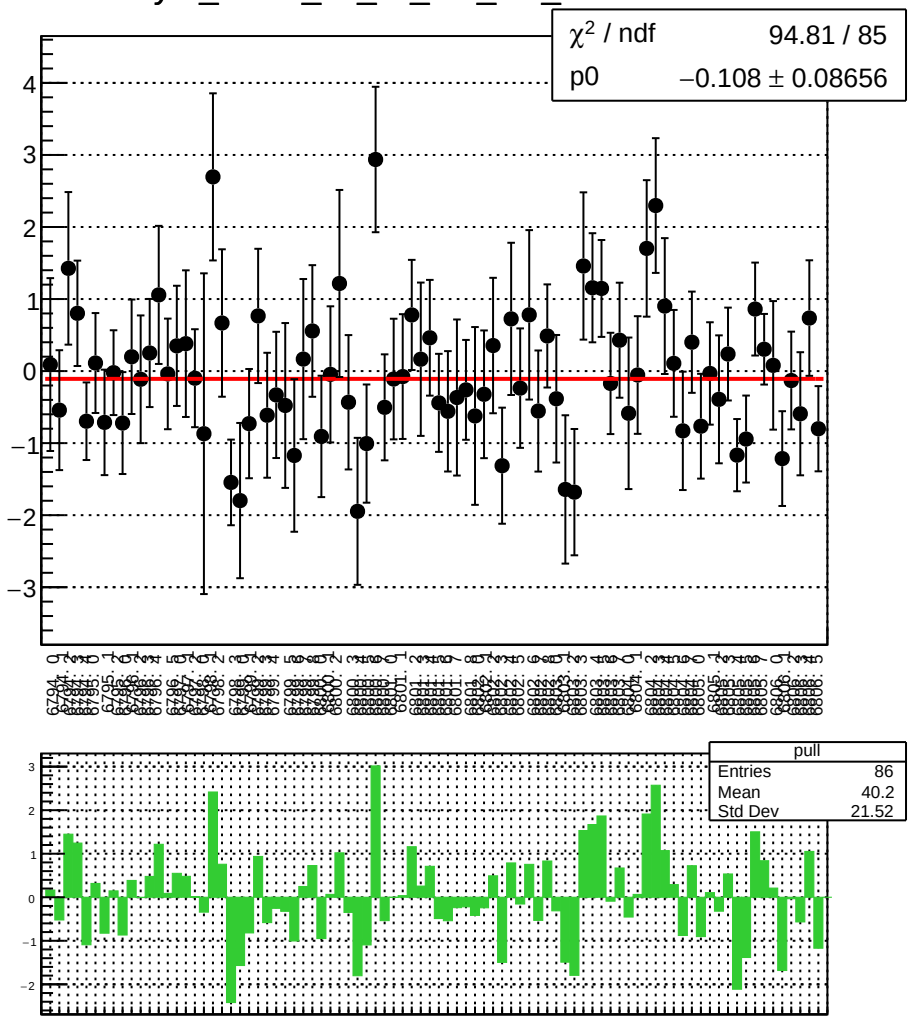

pull1D
Entries 86
Mean 0.01193
Std Dev 0.9121
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

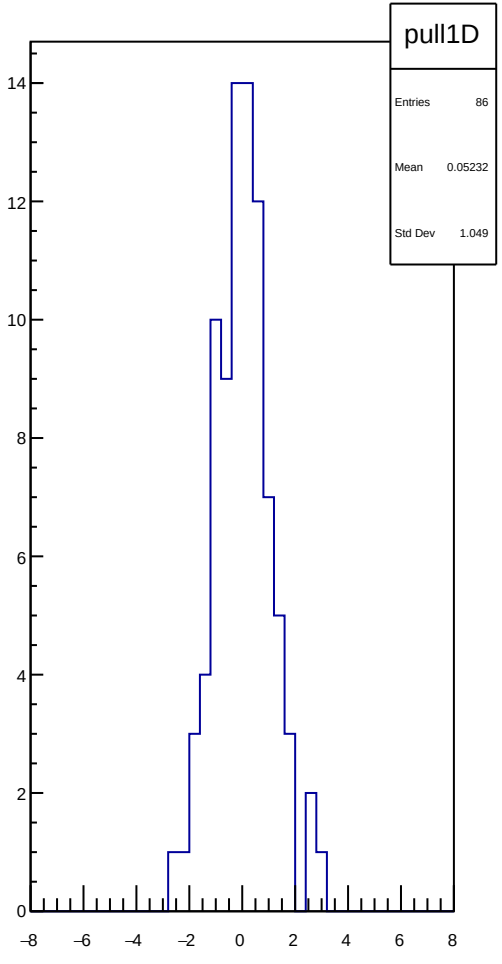

asym_sam6_rms vs run
χ² / ndf 1.878e+04 / 85
p0 1283 ± 0.9947
1600
1500
1400
1300
1200
1100
1000

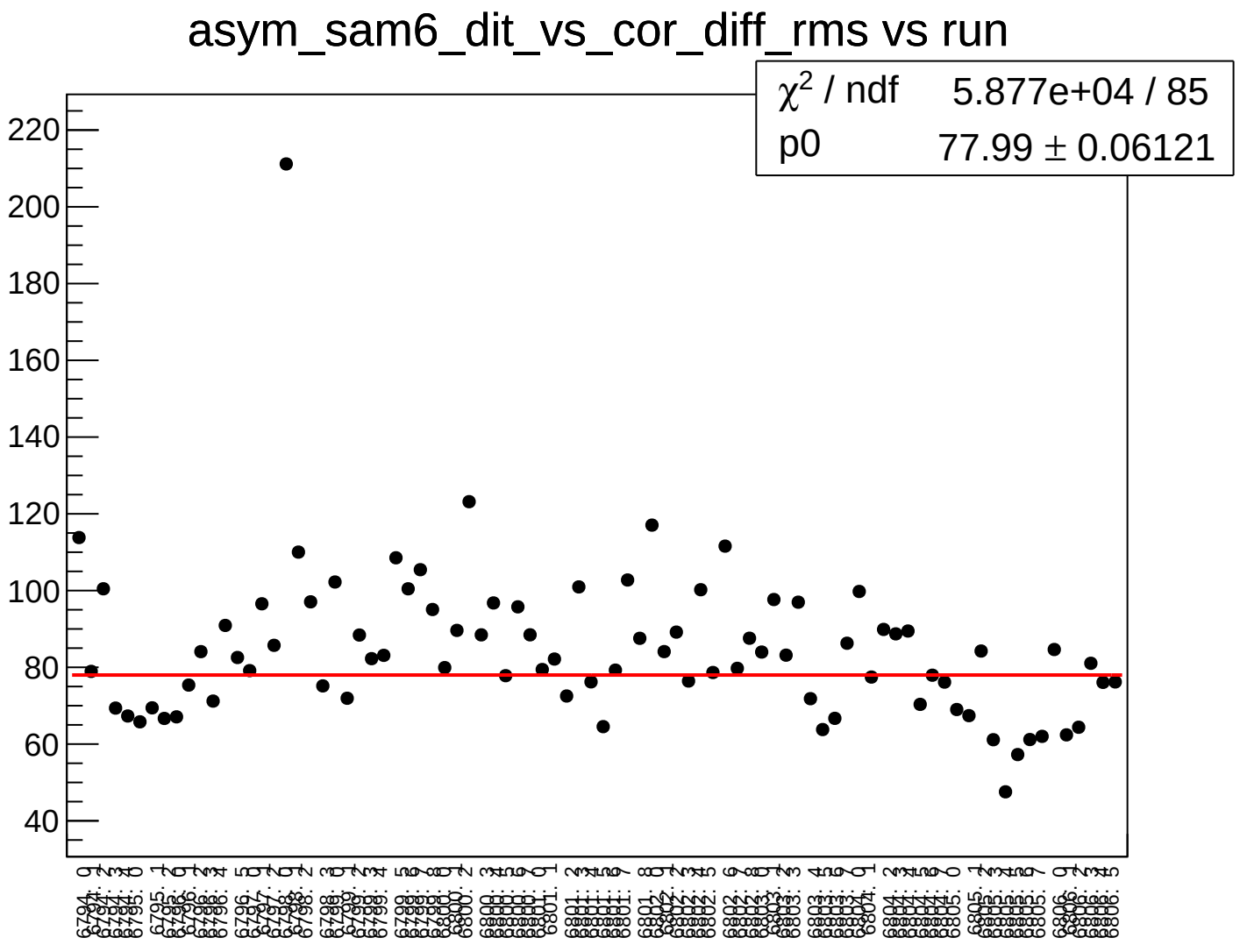

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 66.42 / 85
p0 2.075e−14 ± 4.759e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 106.8
Std Dev 0
3
2
1
0
−1
−2

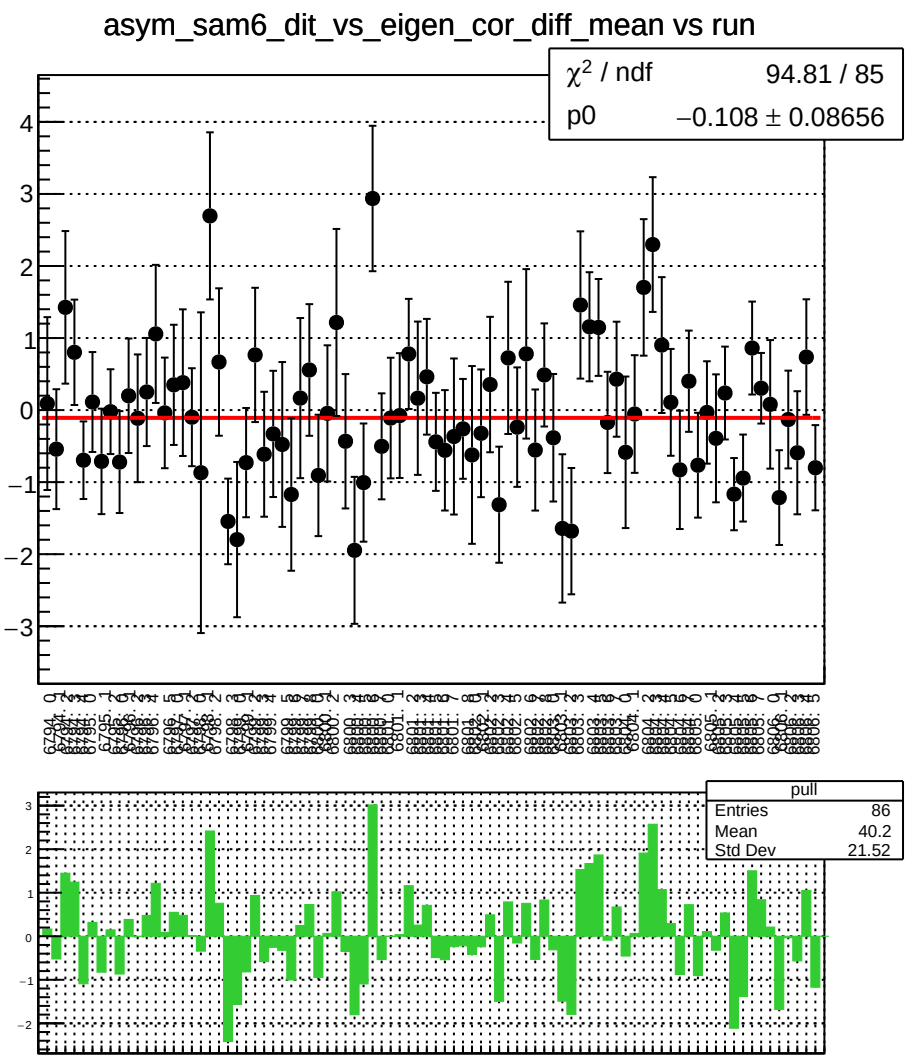

pull1D
Entries 86
Mean −0.09742
Std Dev 0.8734
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

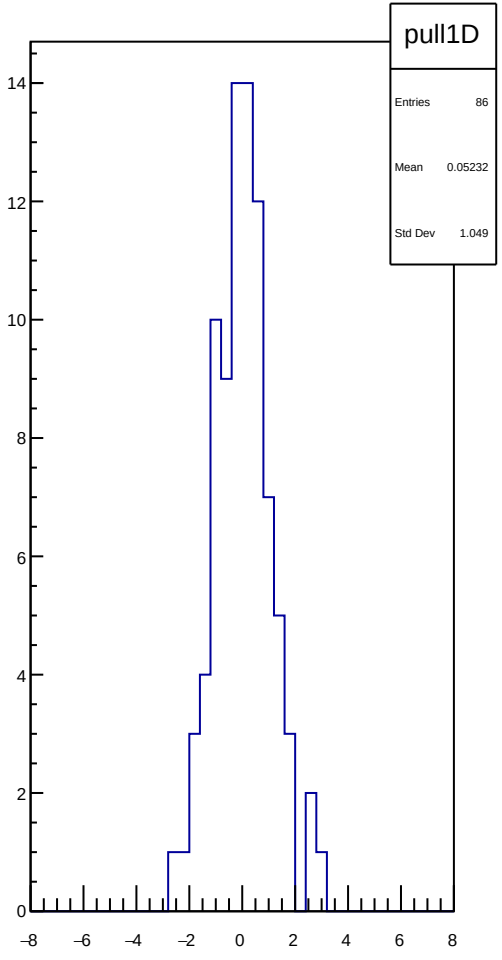

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 9.54e+05 / 85
p0 2.872e−11 ± 3.365e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

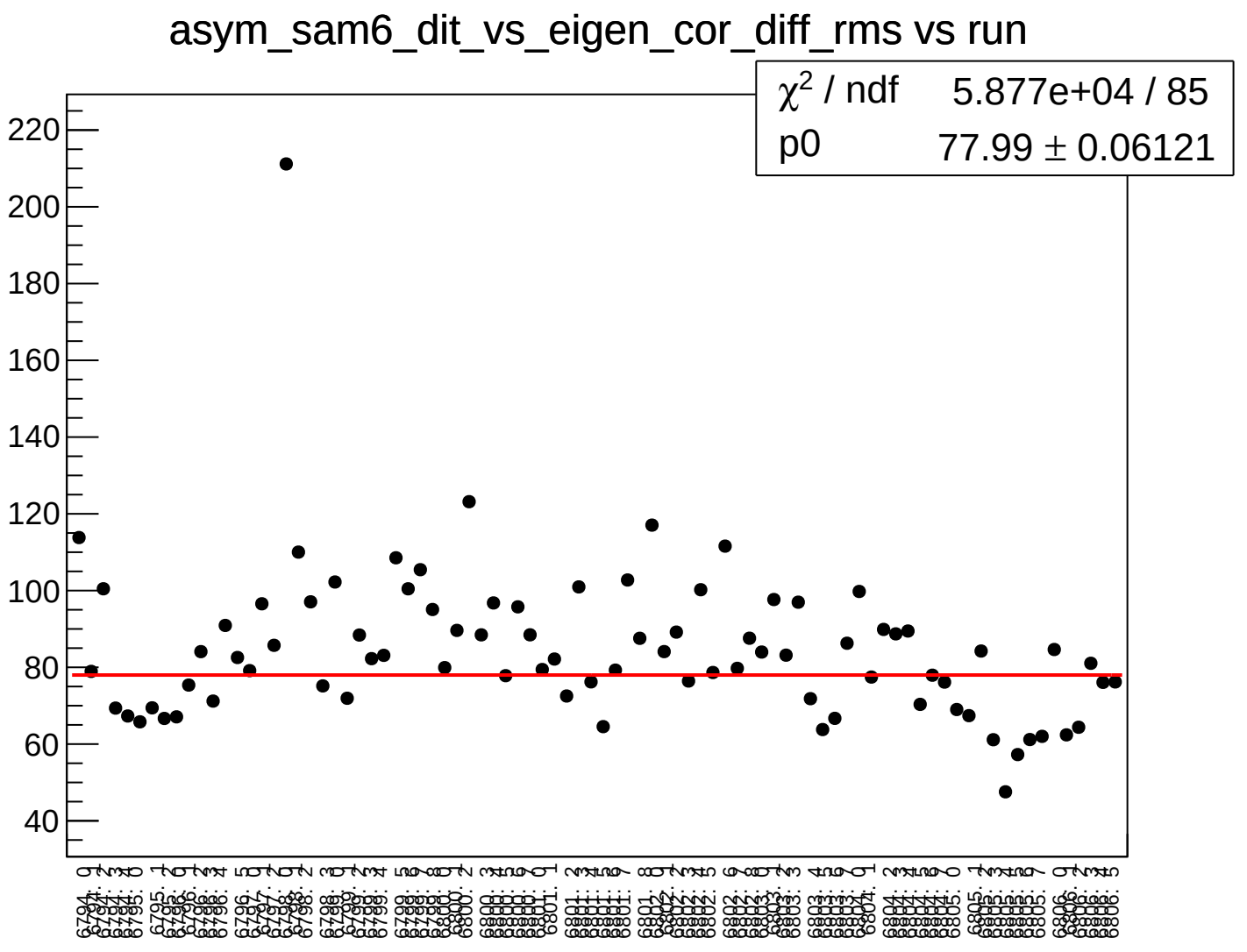

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 94.81 / 85
p0 −0.108 ± 0.08656
pull
Entries 86
Mean 40.2
Std Dev 21.52

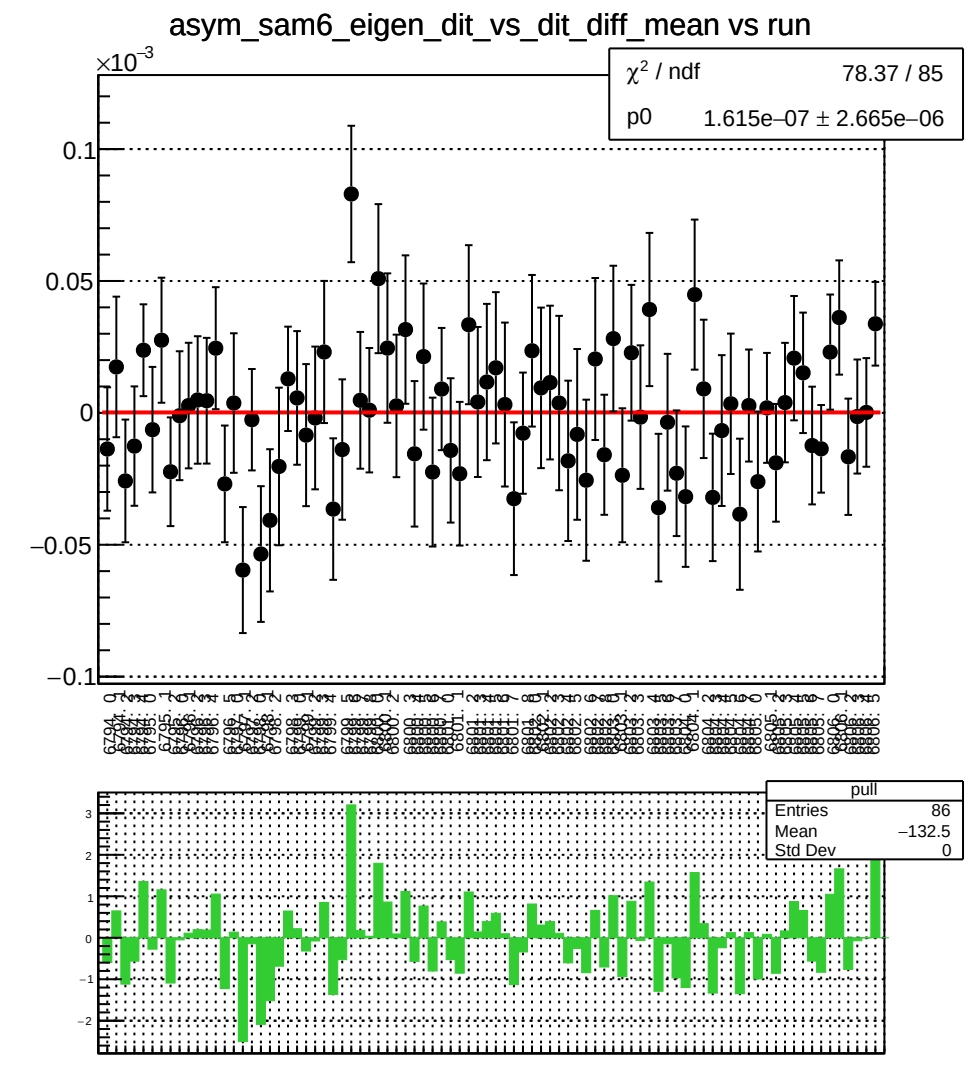

pull1D
Entries 86
Mean 0.05232
Std Dev 1.049

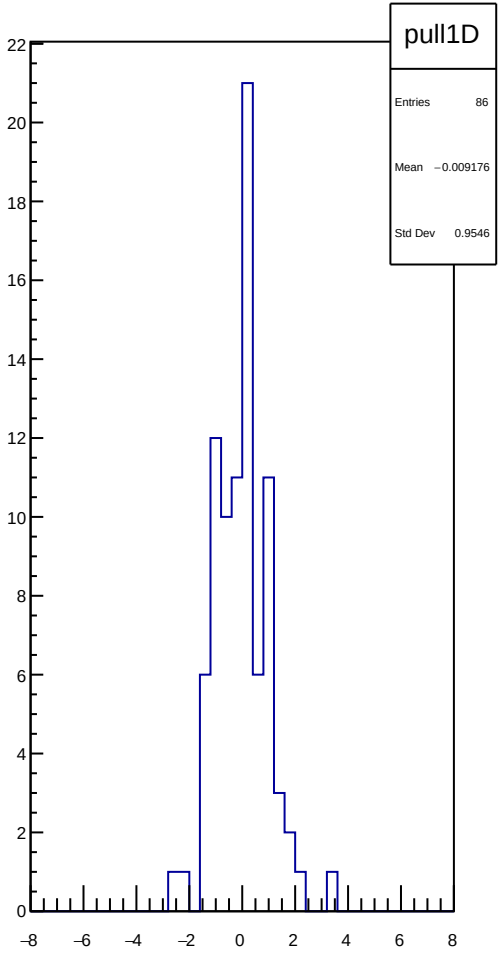

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.877e+04 / 85
p0 77.99 ± 0.06121
220
200
180
160
140
120
100
80
60
40

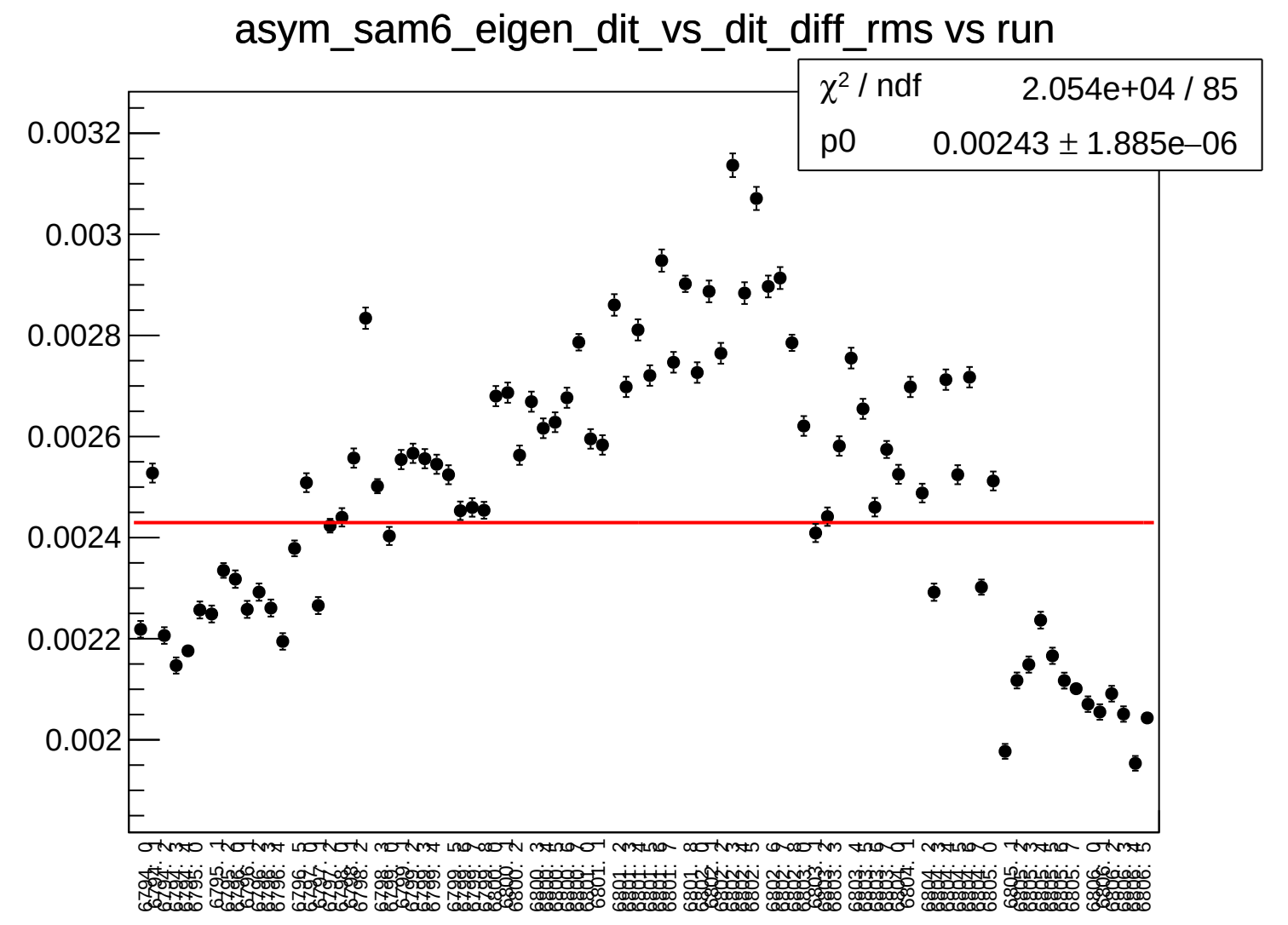

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.81 / 85
p0 −0.108 ± 0.08656
pull
Entries 86
Mean 40.2
Std Dev 21.52

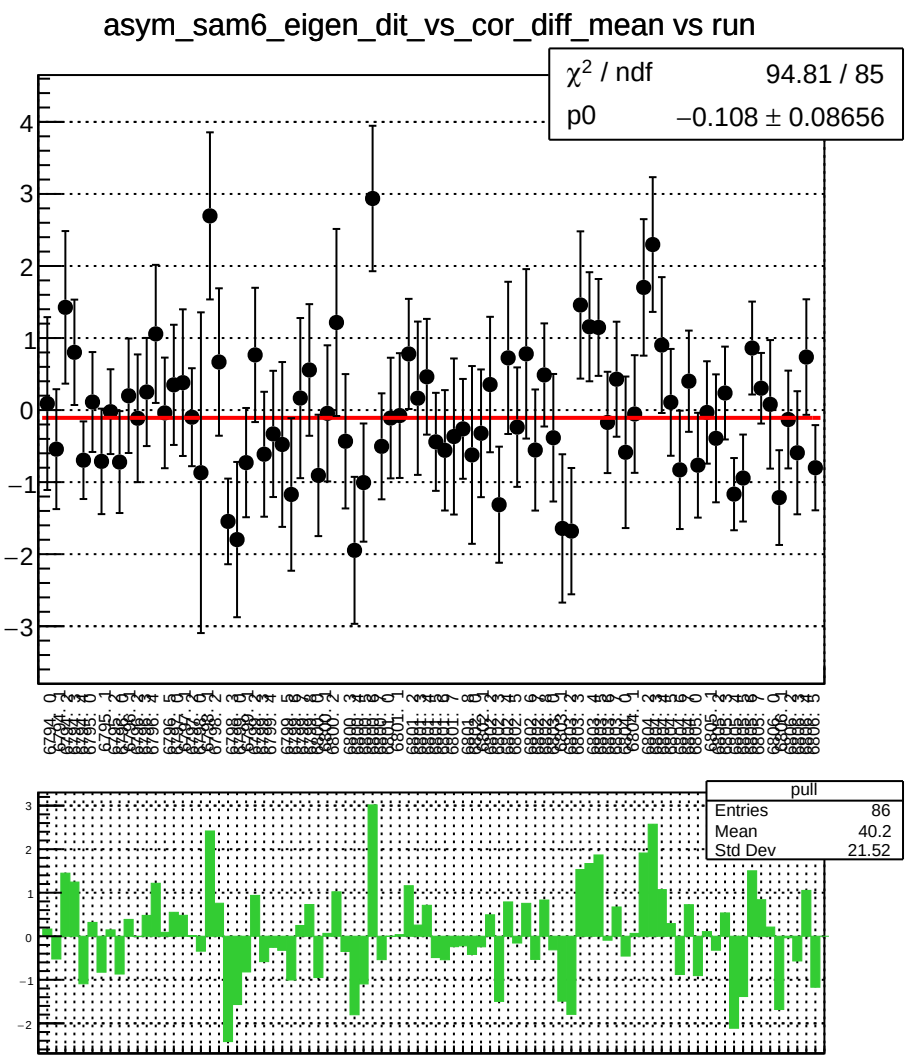

pull1D
Entries 86
Mean 0.05232
Std Dev 1.049

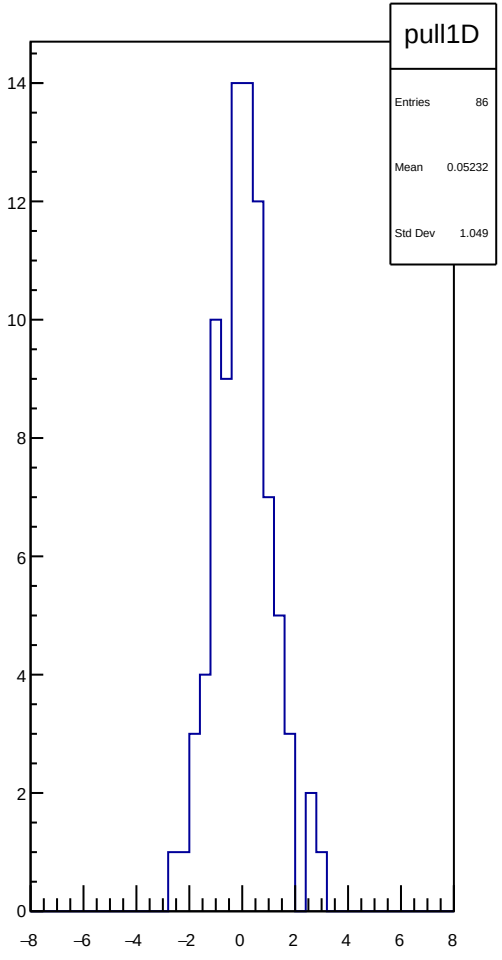

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.877e+04 / 85
p0 77.99 ± 0.06121
220
200
180
160
140
120
100
80
60
40

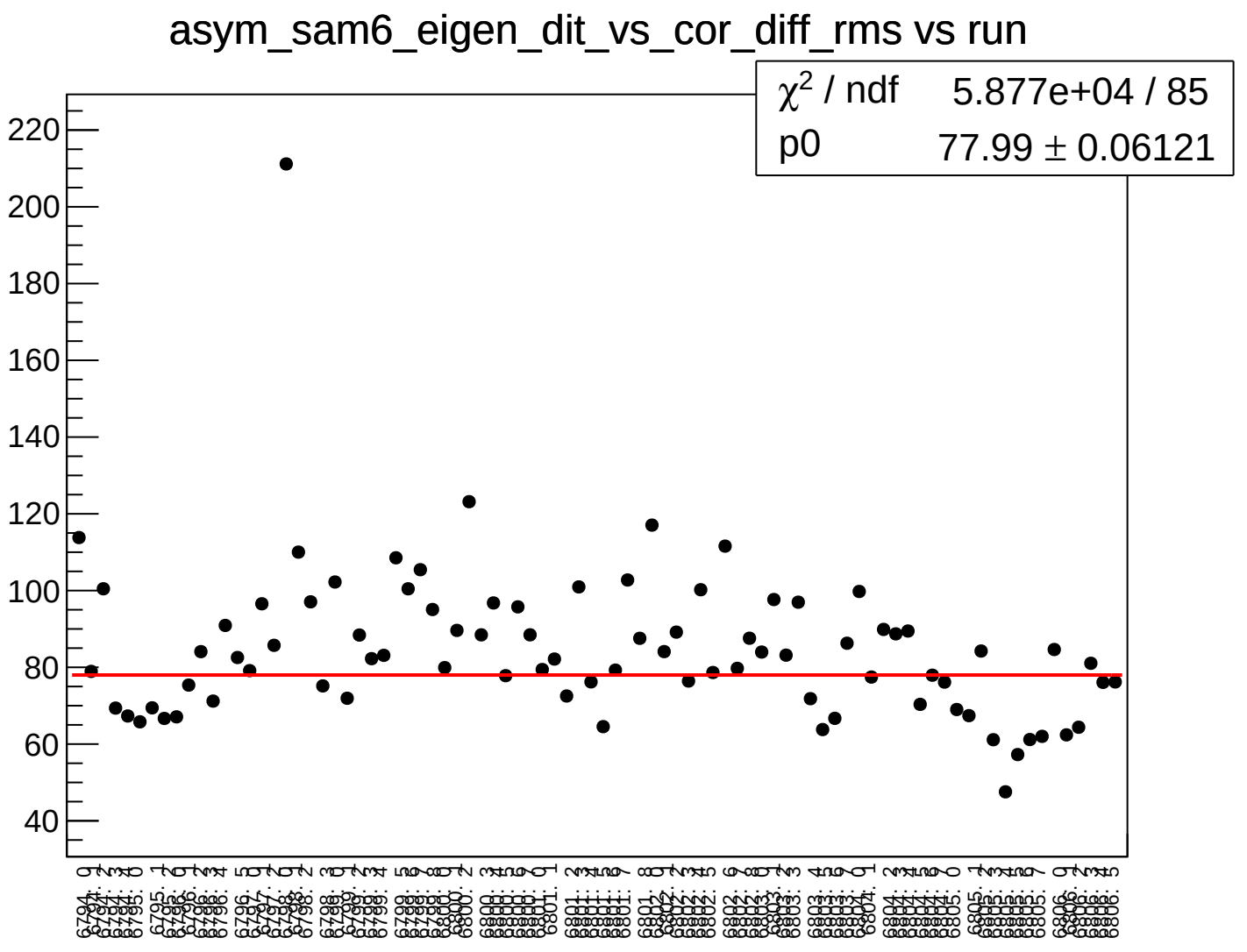

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.37 / 85
p0 1.615e−07 ± 2.665e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −132.5
Std Dev 0
3
2
1
0
−1
−2

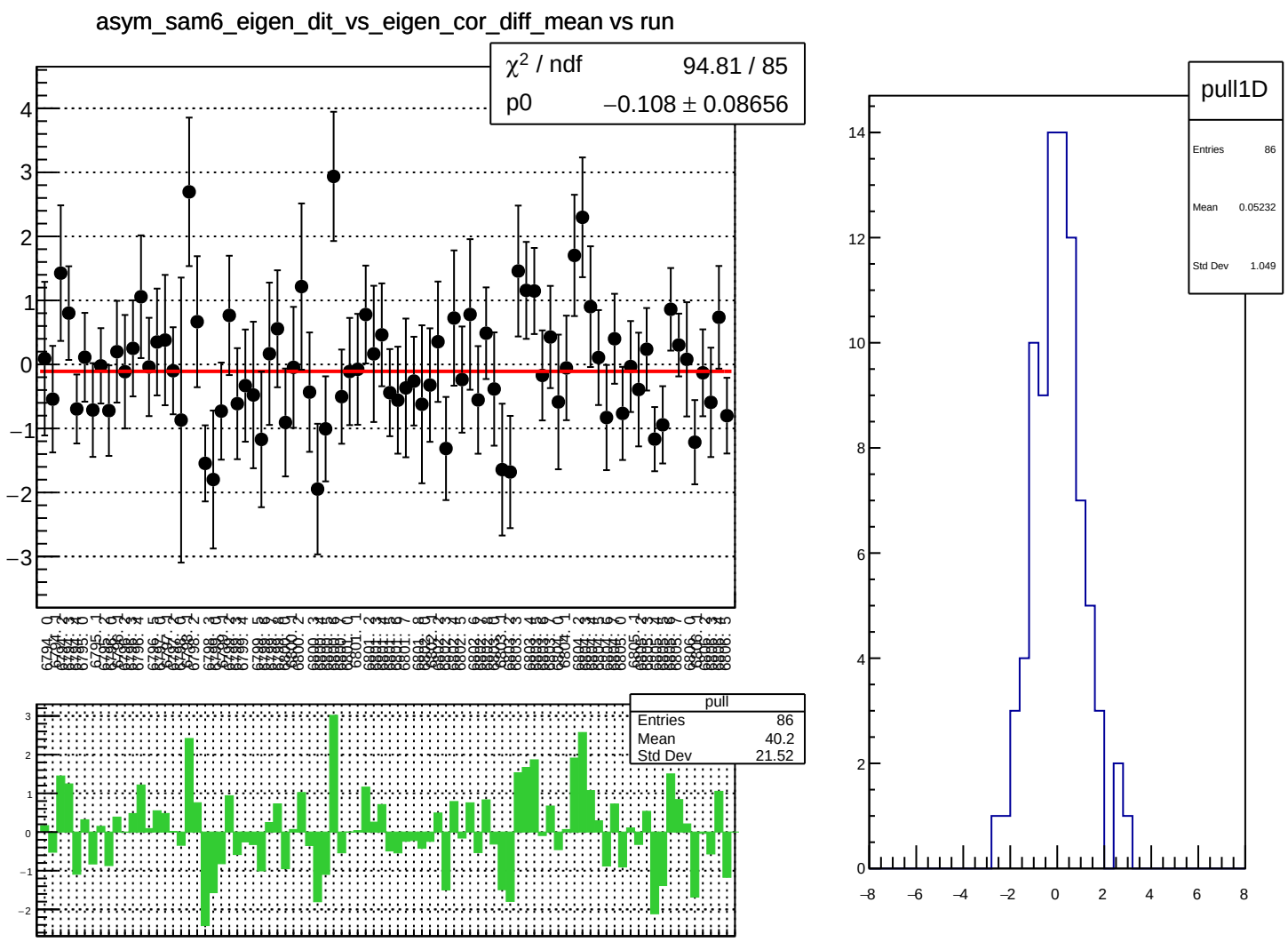

pull1D
Entries 86
Mean −0.009176
Std Dev 0.9546
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

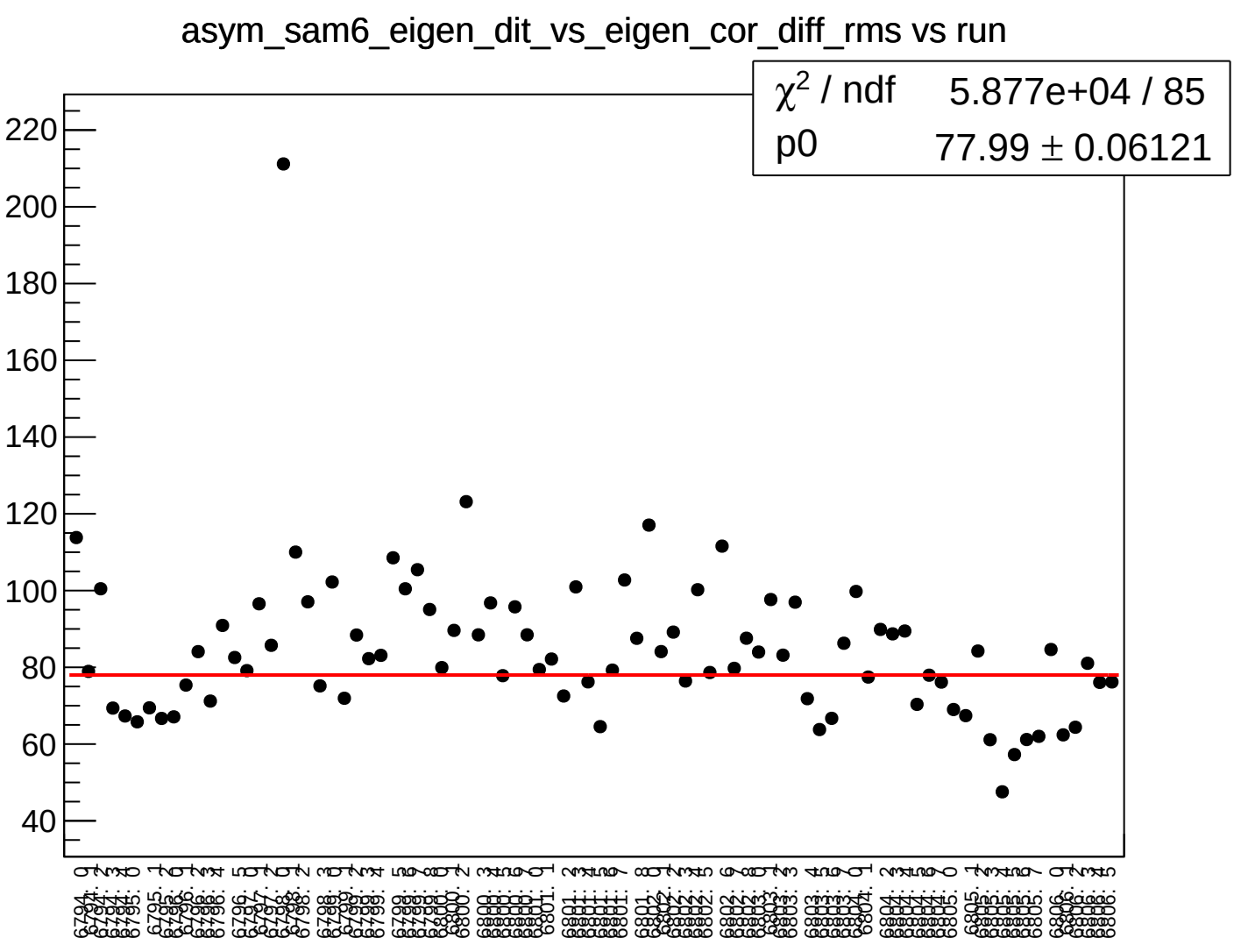

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.054e+04 / 85
p0 0.00243 ± 1.885e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

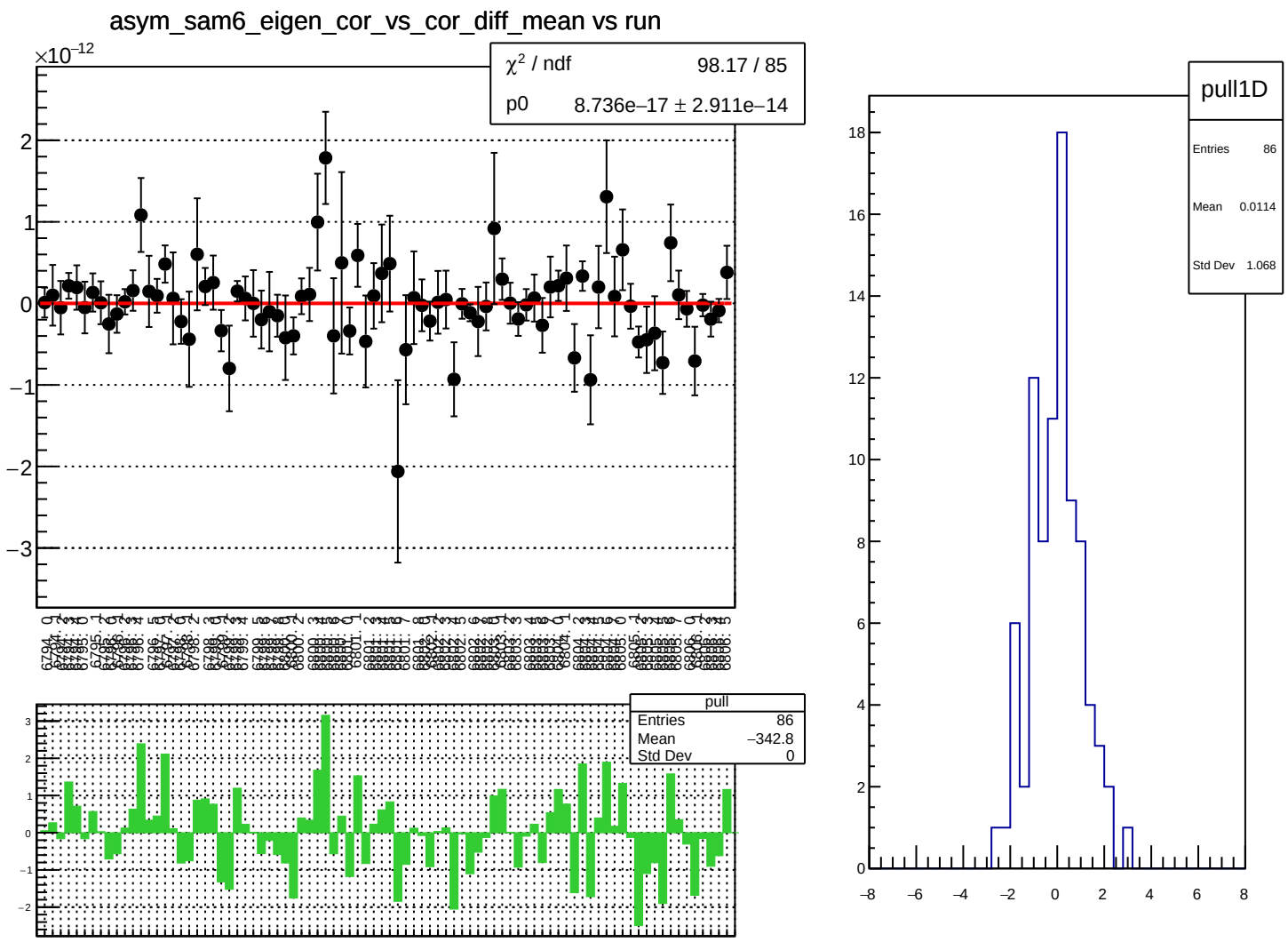

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.81 / 85
p0 −0.108 ± 0.08656
pull
Entries 86
Mean 40.2
Std Dev 21.52

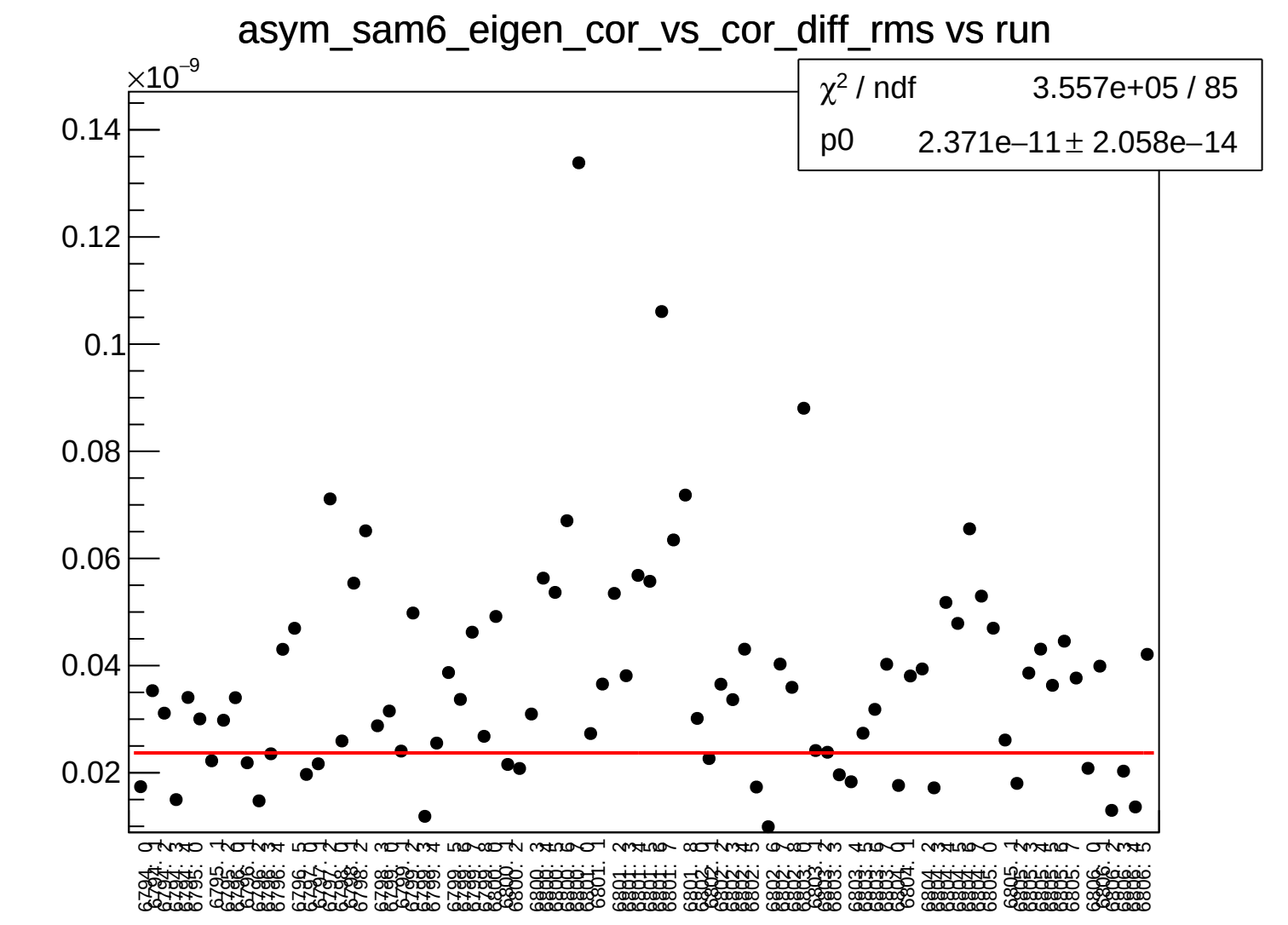

pull1D
Entries 86
Mean 0.05232
Std Dev 1.049

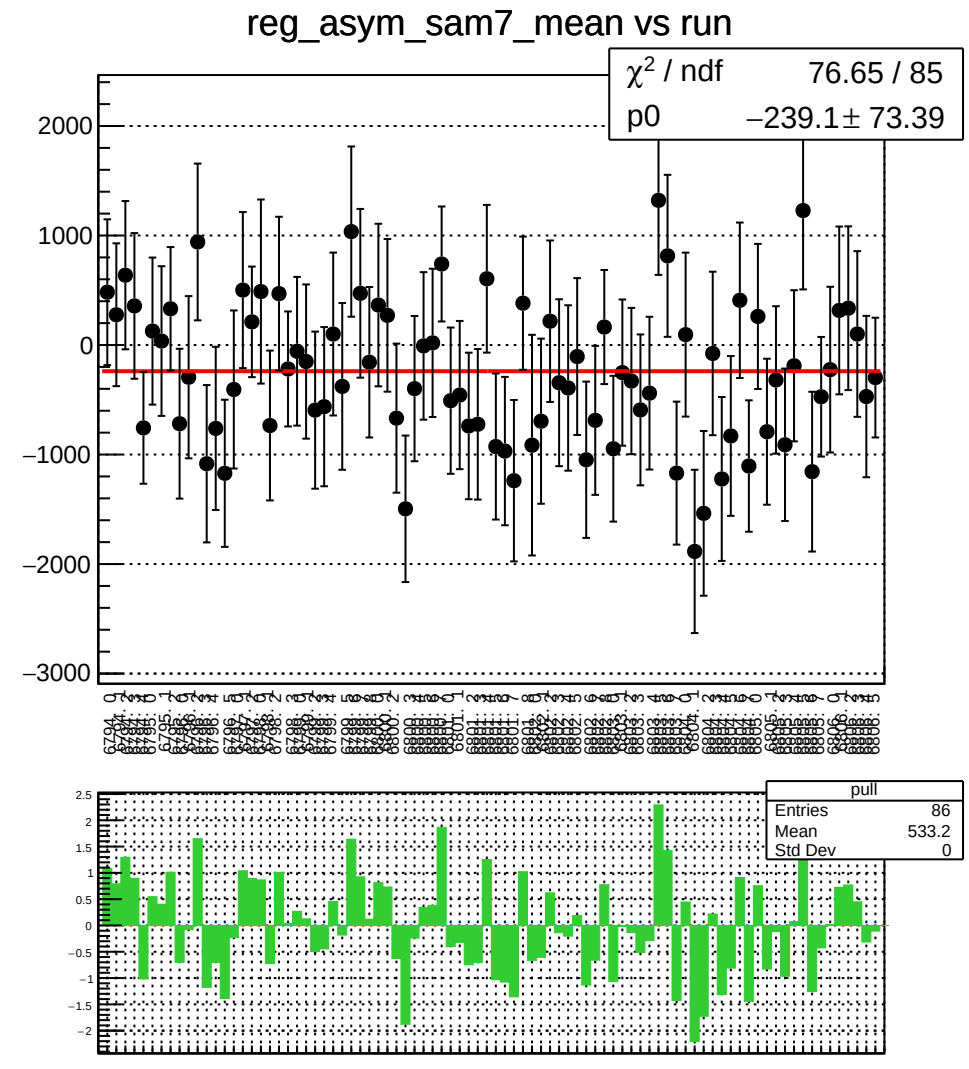

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.877e+04 / 85
p0 77.99 ± 0.06121
220
200
180
160
140
120
100
80
60
40

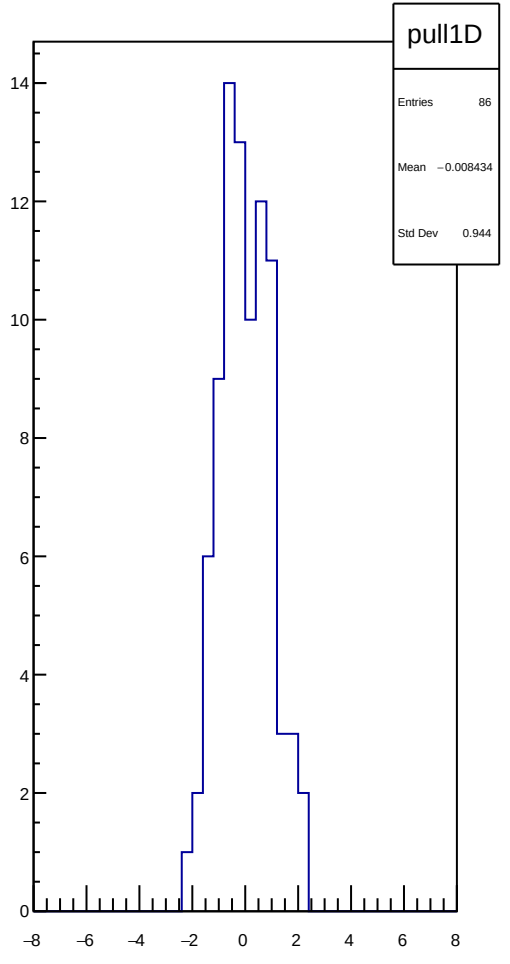

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.81 / 85
p0 −0.108 ± 0.08656
pull
Entries 86
Mean 40.2
Std Dev 21.52
pull1D
Entries 86
Mean 0.05232
Std Dev 1.049

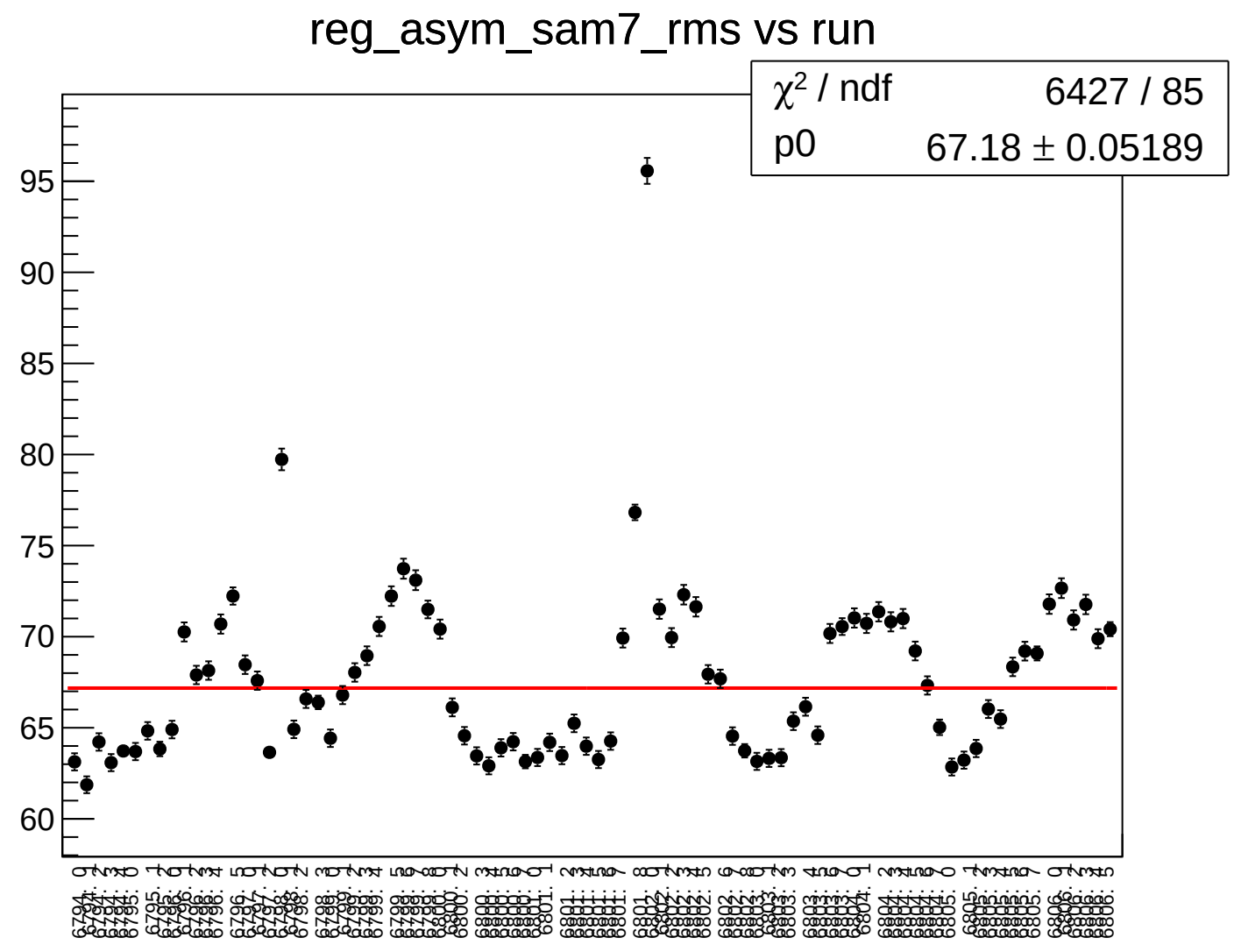

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.877e+04 / 85
p0 77.99 ± 0.06121
220
200
180
160
140
120
100
80
60
40

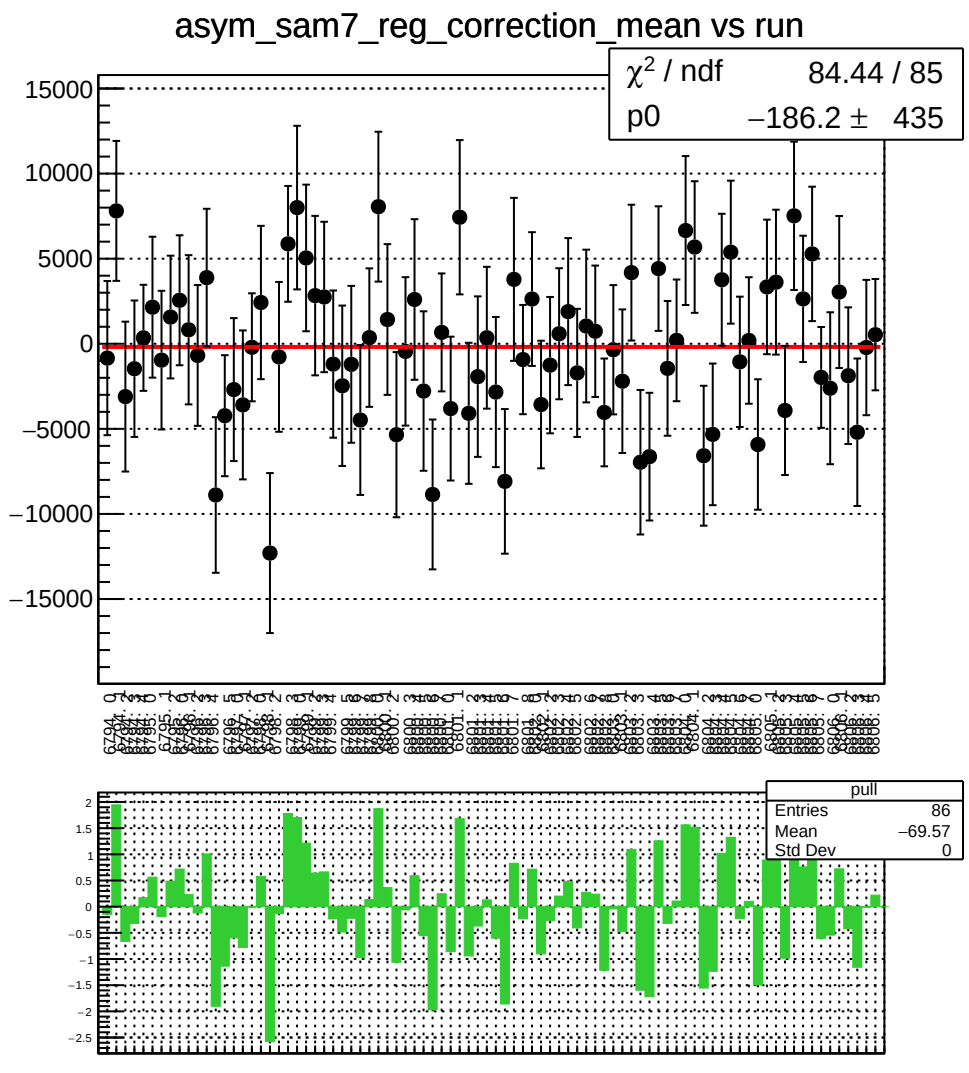

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.17 / 85
p0 8.736e−17 ± 2.911e−14
pull
Entries 86
Mean −342.8
Std Dev 0
pull1D
Entries 86
Mean 0.0114
Std Dev 1.068

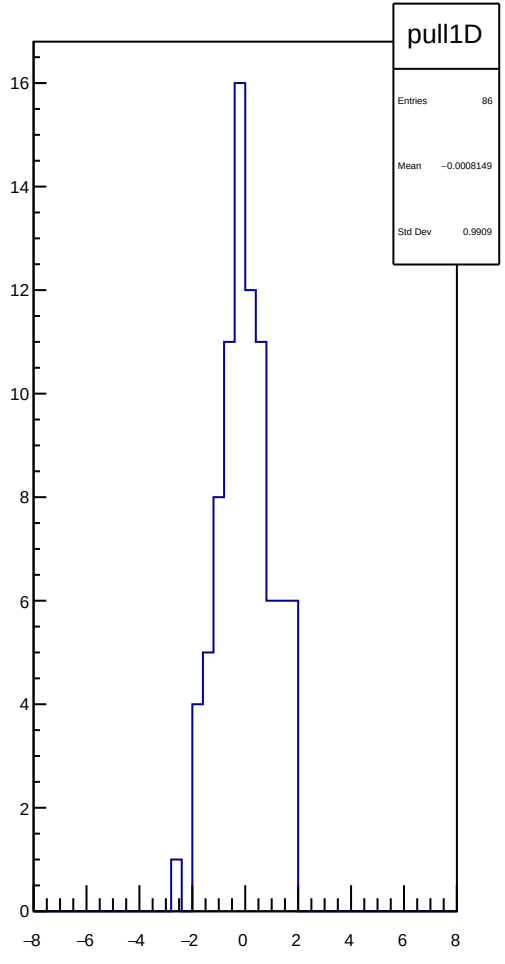

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.557e+05 / 85
p0 2.371e−11 ± 2.058e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

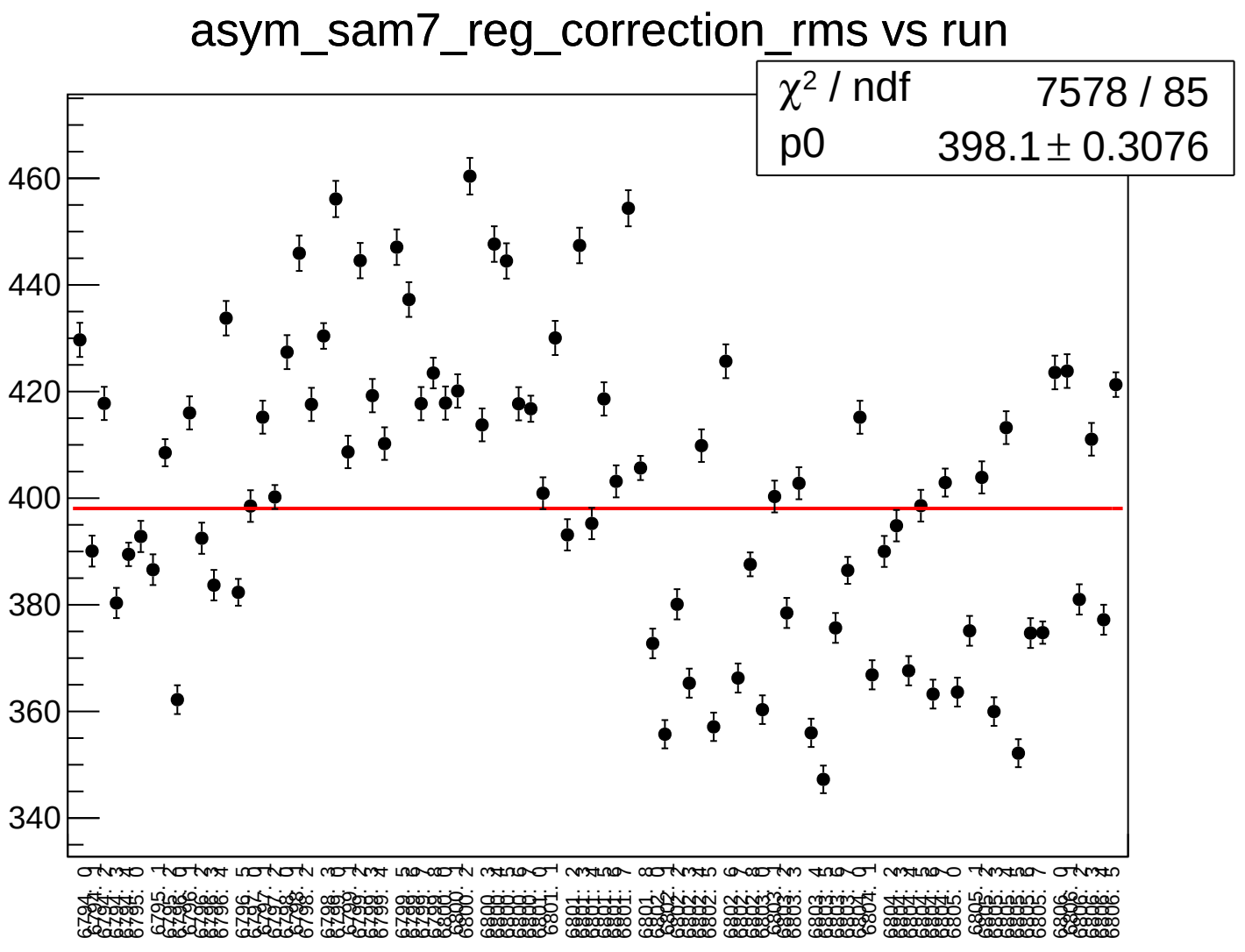

reg_asym_sam7_mean vs run
χ² / ndf 76.65 / 85
p0 −239.1± 73.39
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 533.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

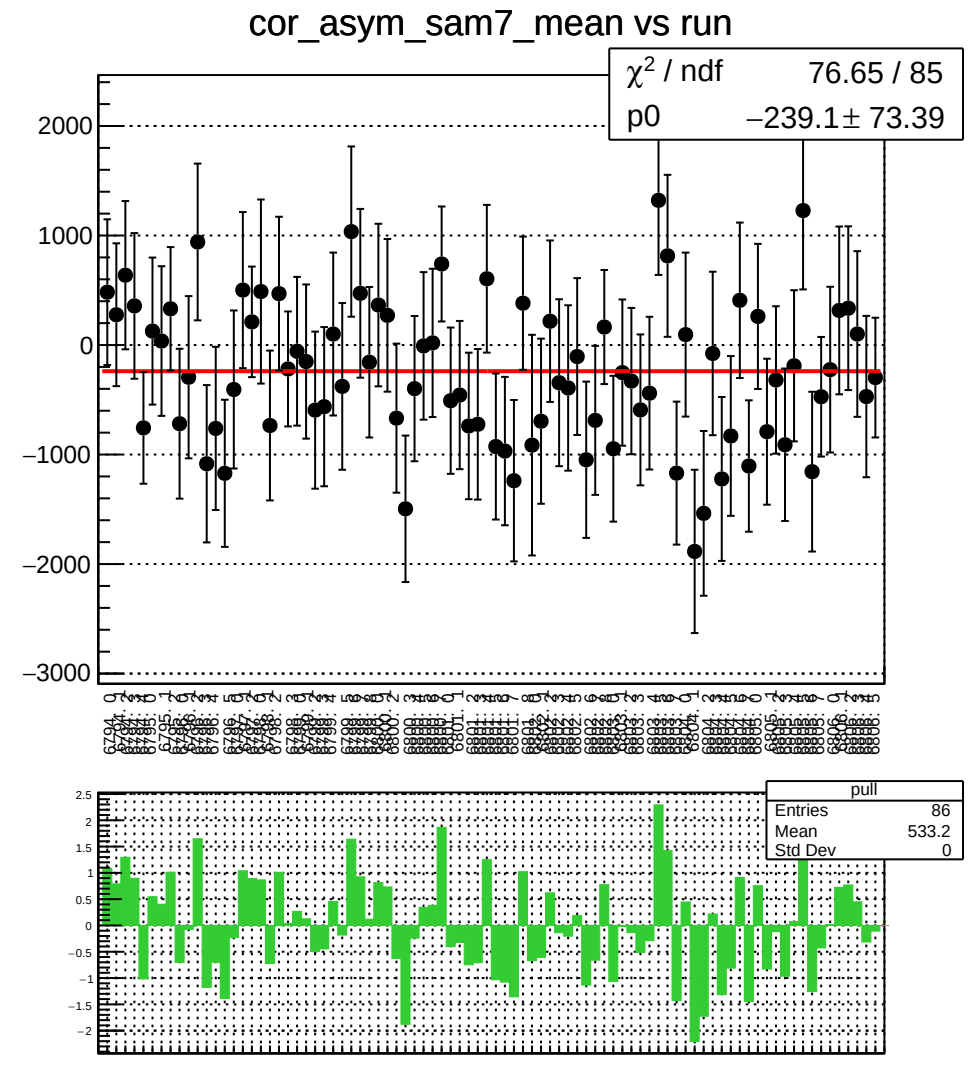

pull1D
Entries 86
Mean −0.008434
Std Dev 0.944
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

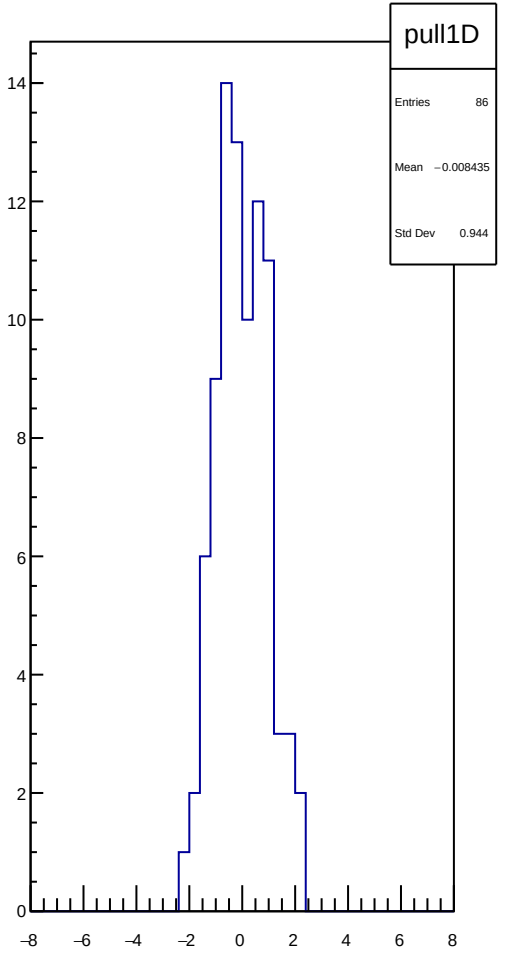

reg_asym_sam7_rms vs run
χ^2 / ndf 6427 / 85
p0 67.18 ± 0.05189
95
90
85
80
75
70
65
60

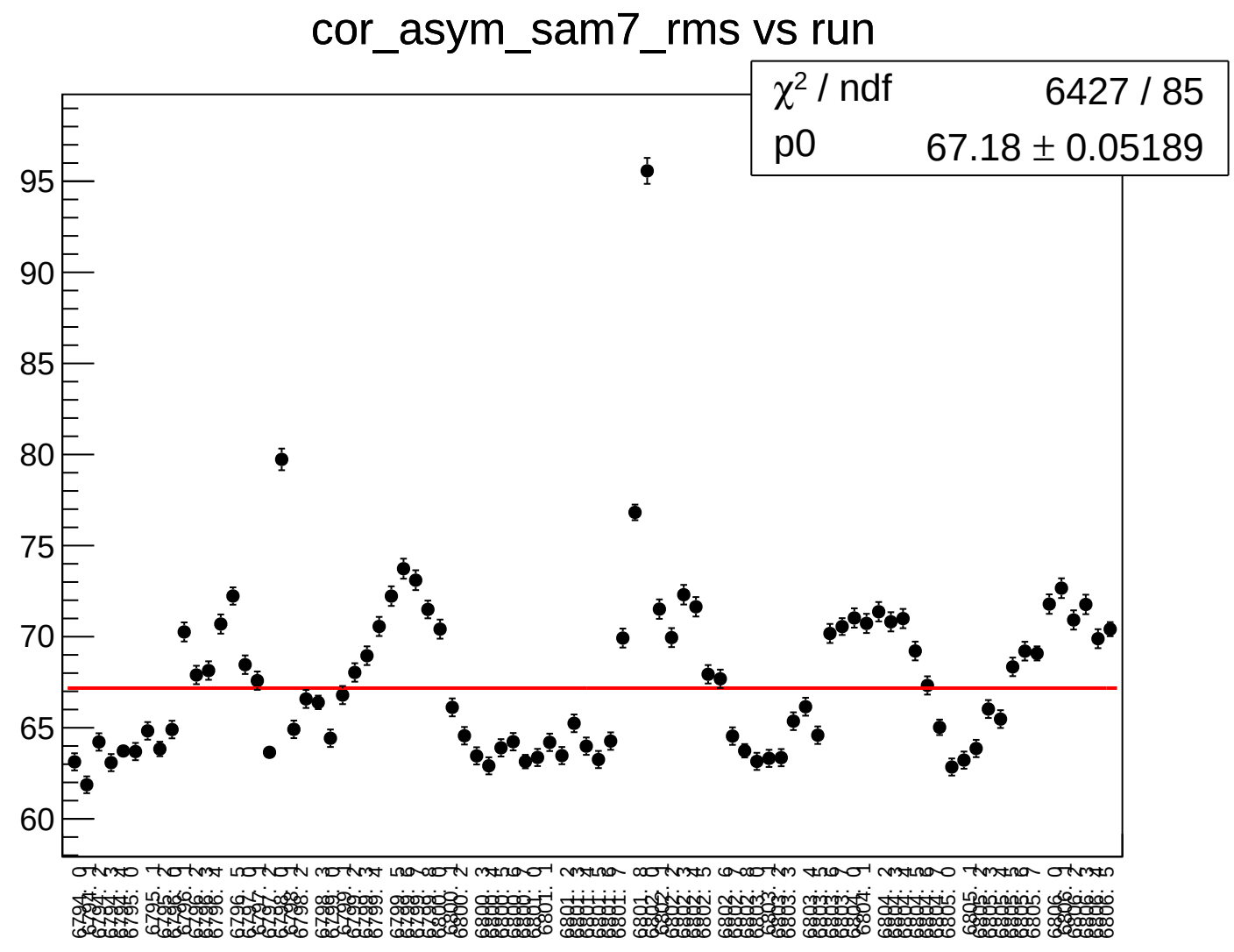

asym_sam7_reg_correction_mean vs run
χ² / ndf 84.44 / 85
p0 −186.2 ± 435
pull
Entries 86
Mean −69.57
Std Dev 0

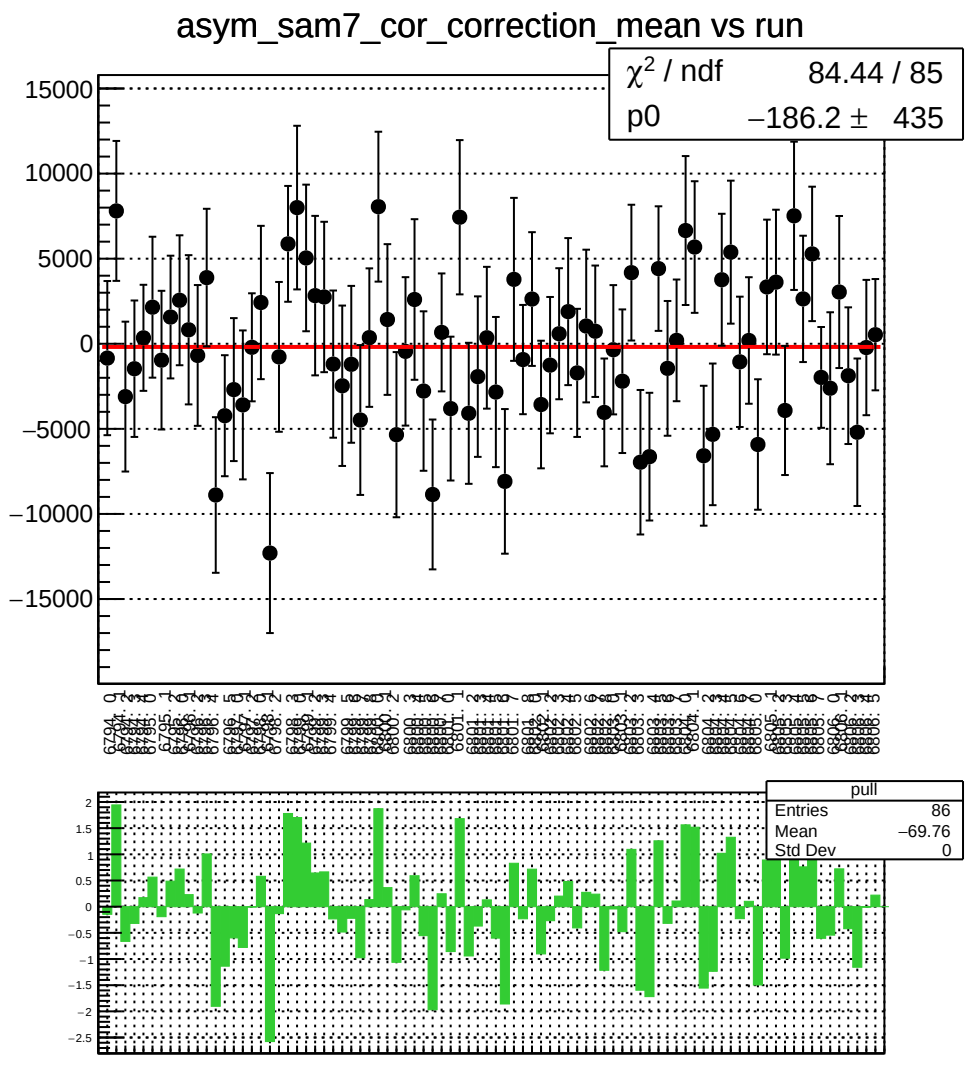

pull1D
Entries 86
Mean −0.0008149
Std Dev 0.9909

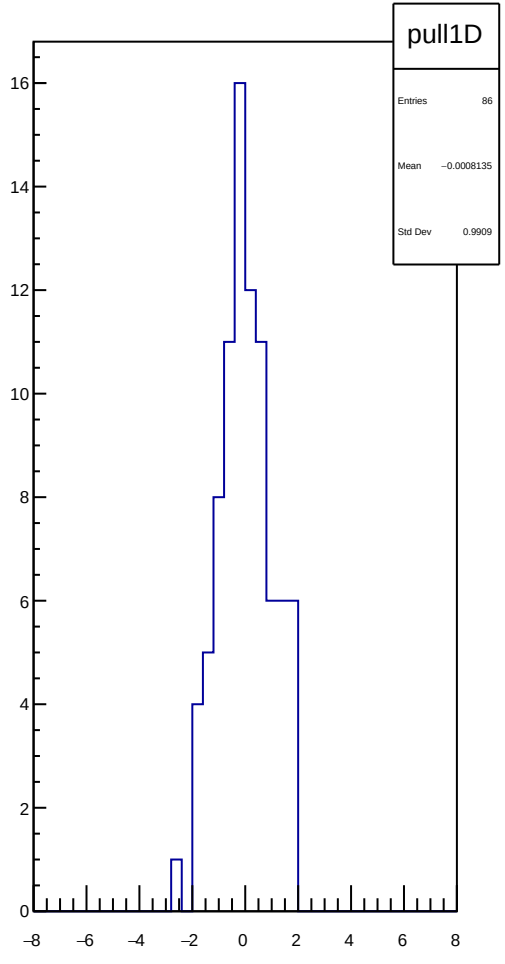

asym_sam7_reg_correction_rms vs run
χ² / ndf 7578 / 85
p0 398.1 ± 0.3076
460
440
420
400
380
360
340

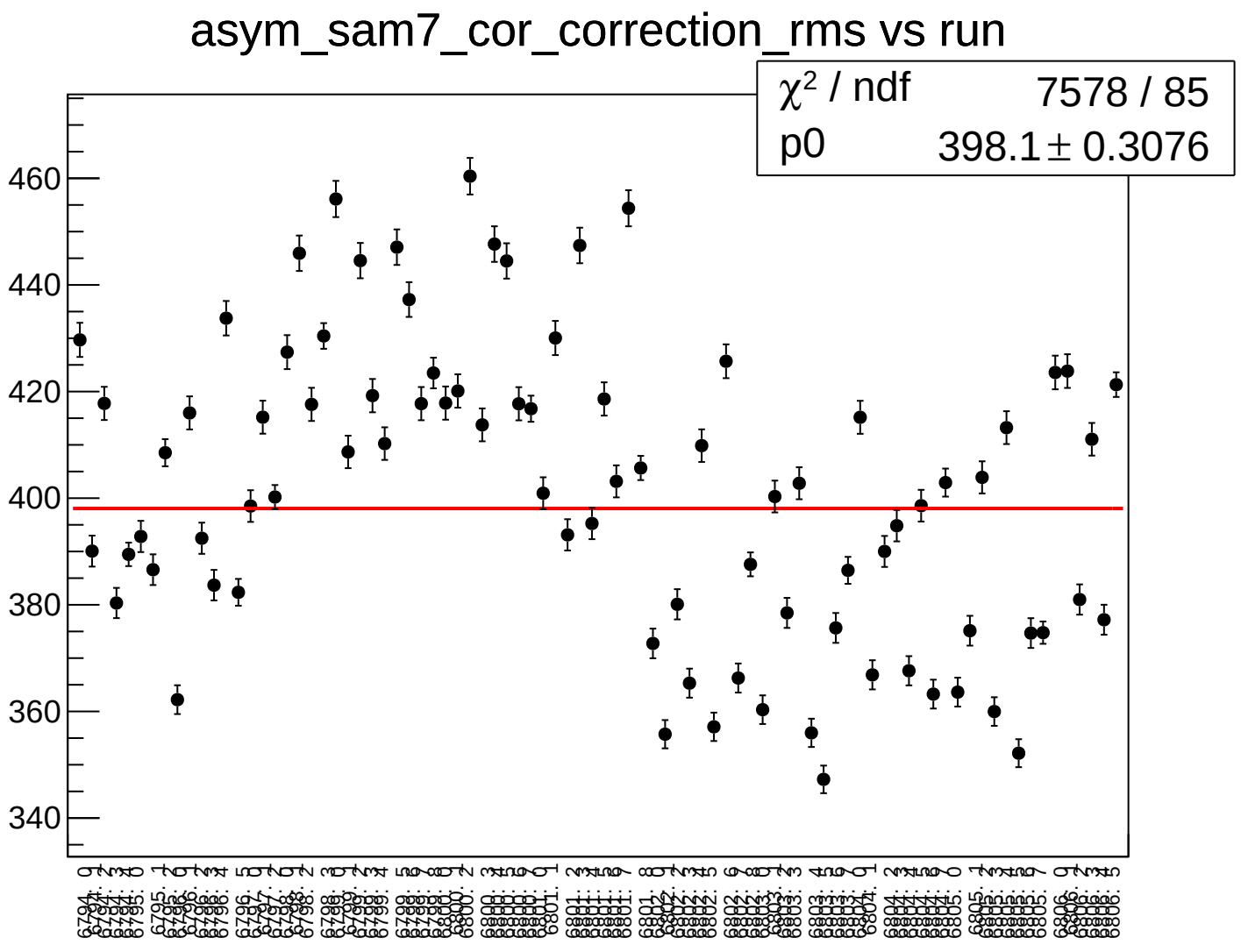

cor_asym_sam7_mean vs run
χ² / ndf 76.65 / 85
p0 −239.1± 73.39
pull
Entries 86
Mean 533.2
Std Dev 0

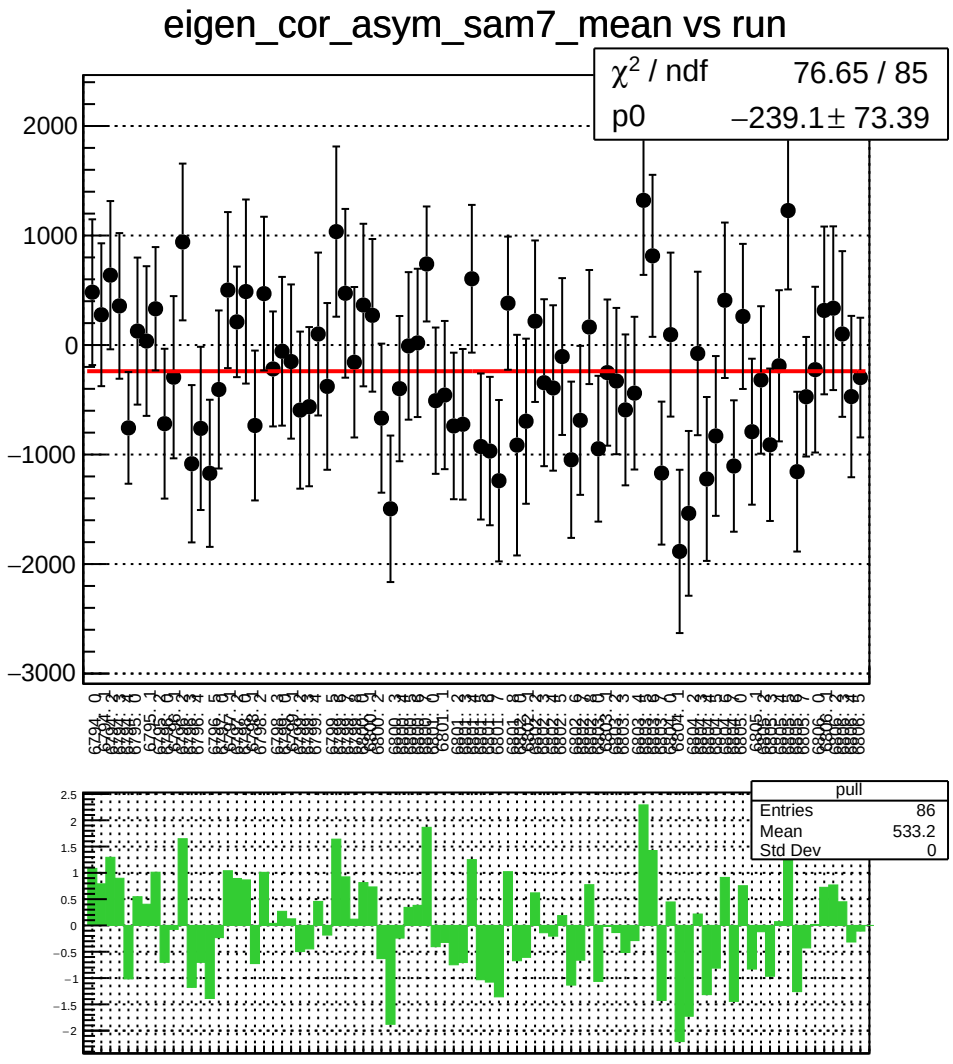

pull1D
Entries 86
Mean −0.008435
Std Dev 0.944

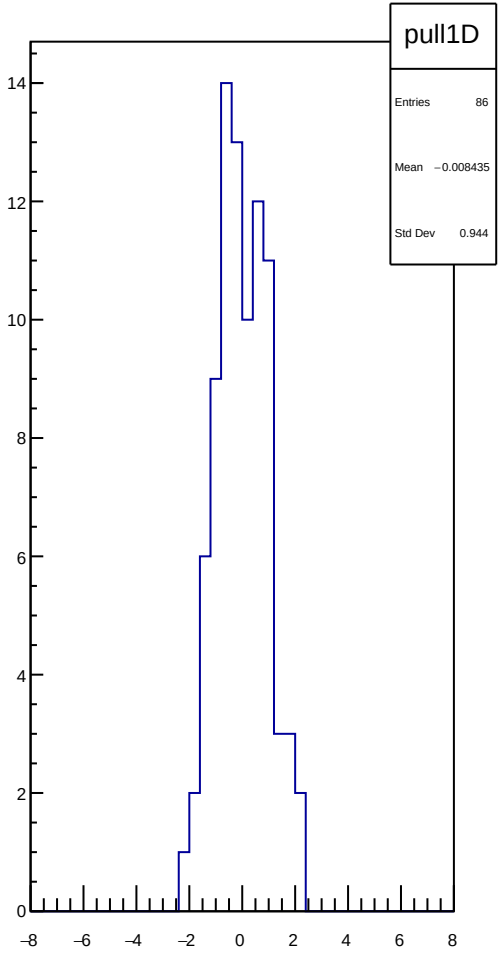

cor_asym_sam7_rms vs run
χ^2 / ndf 6427 / 85
p0 67.18 ± 0.05189
95
90
85
80
75
70
65
60

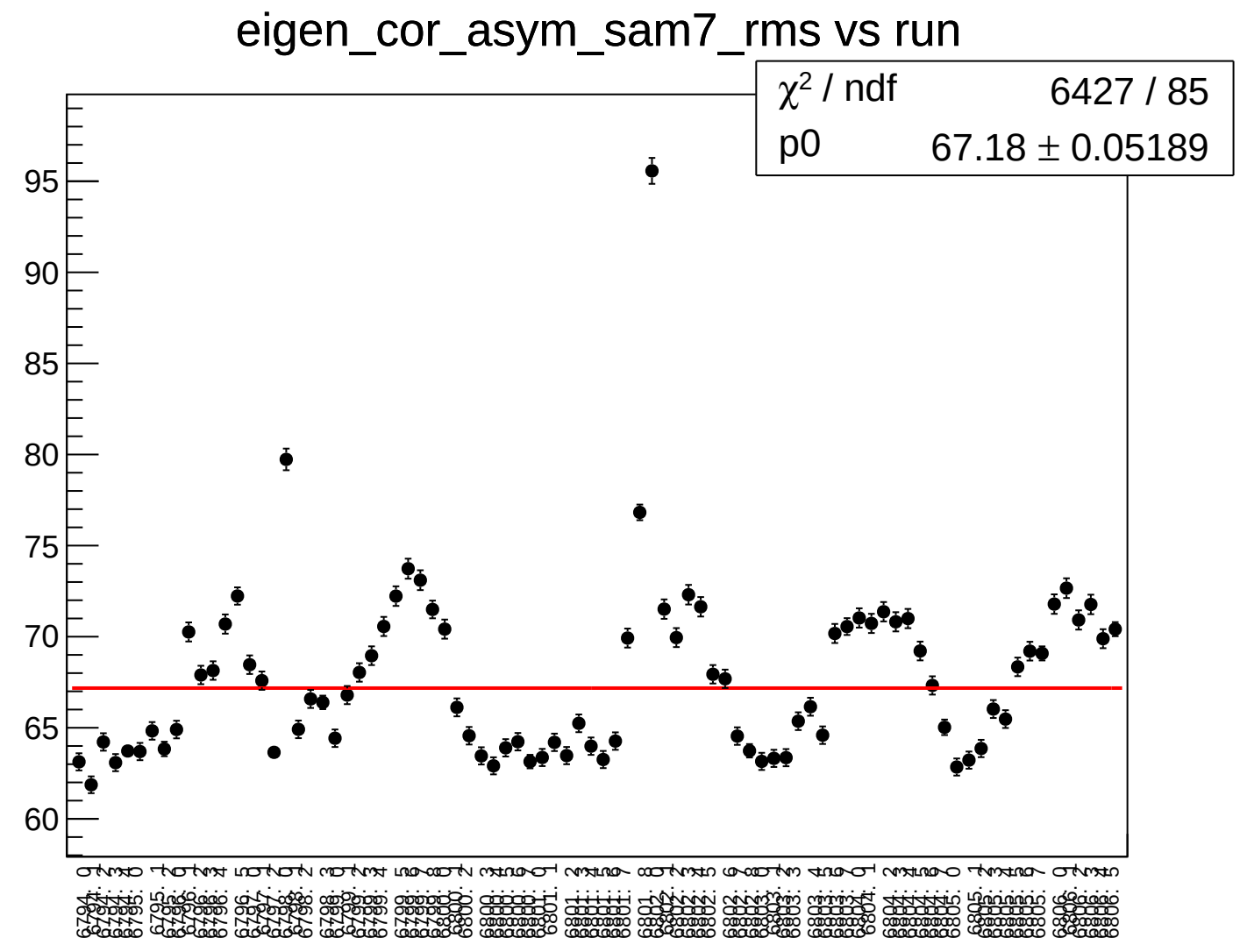

asym_sam7_cor_correction_mean vs run
χ² / ndf 84.44 / 85
p0 −186.2 ± 435
pull
Entries 86
Mean −69.76
Std Dev 0

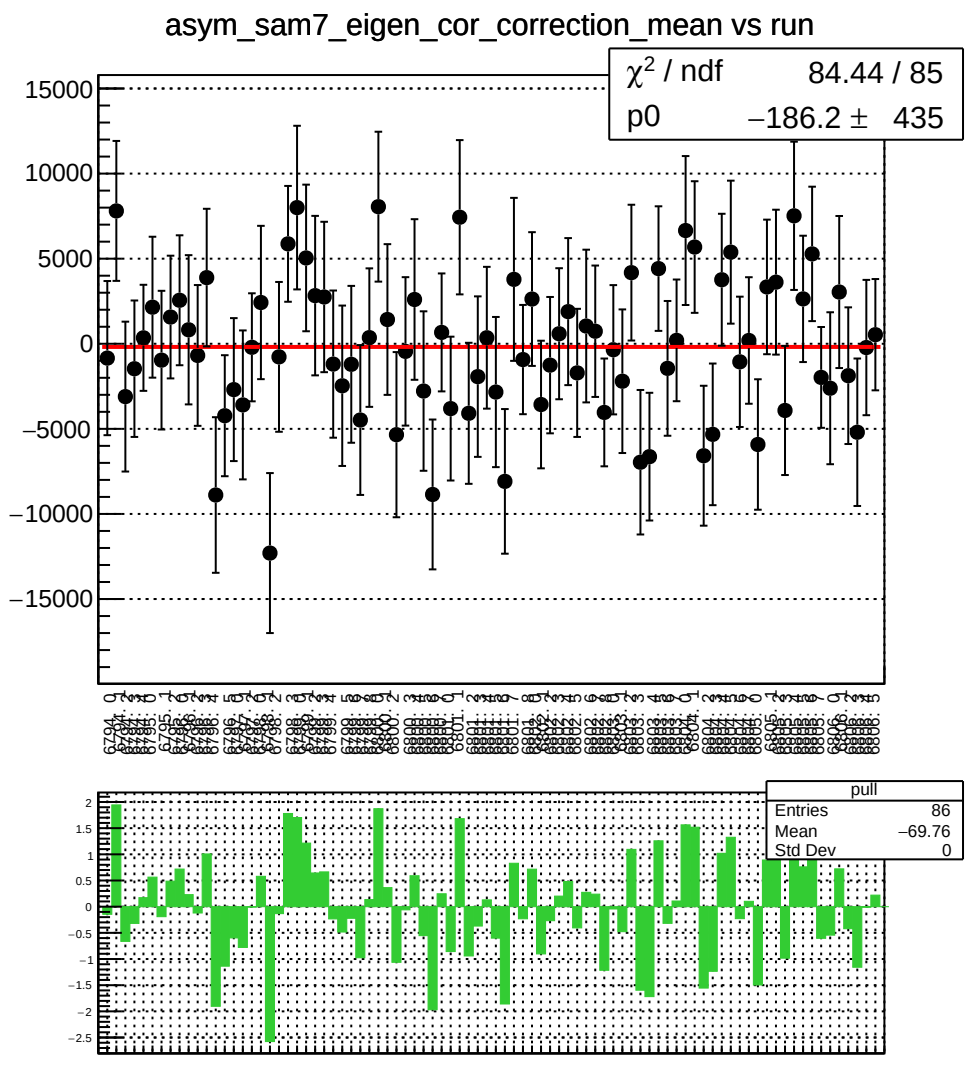

pull1D
Entries 86
Mean −0.0008135
Std Dev 0.9909

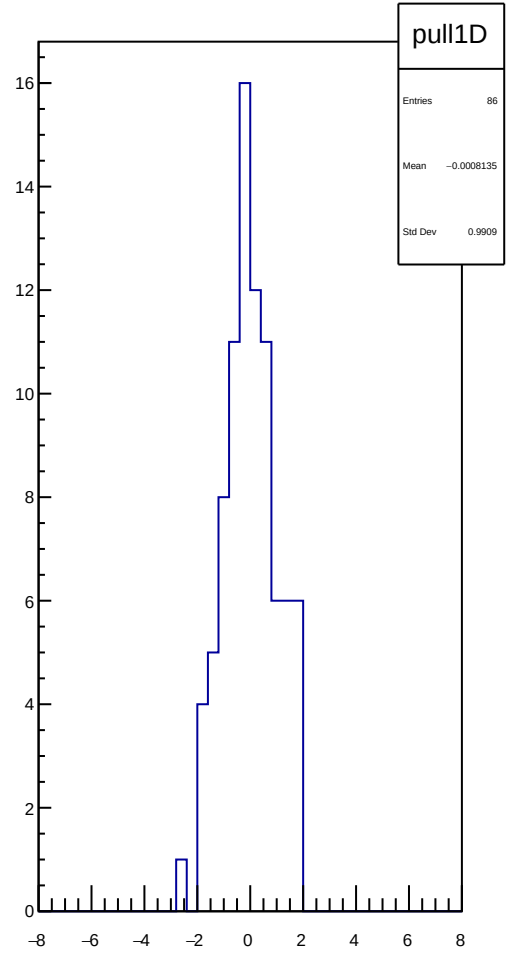

asym_sam7_cor_correction_rms vs run
χ² / ndf 7578 / 85
p0 398.1 ± 0.3076
460
440
420
400
380
360
340

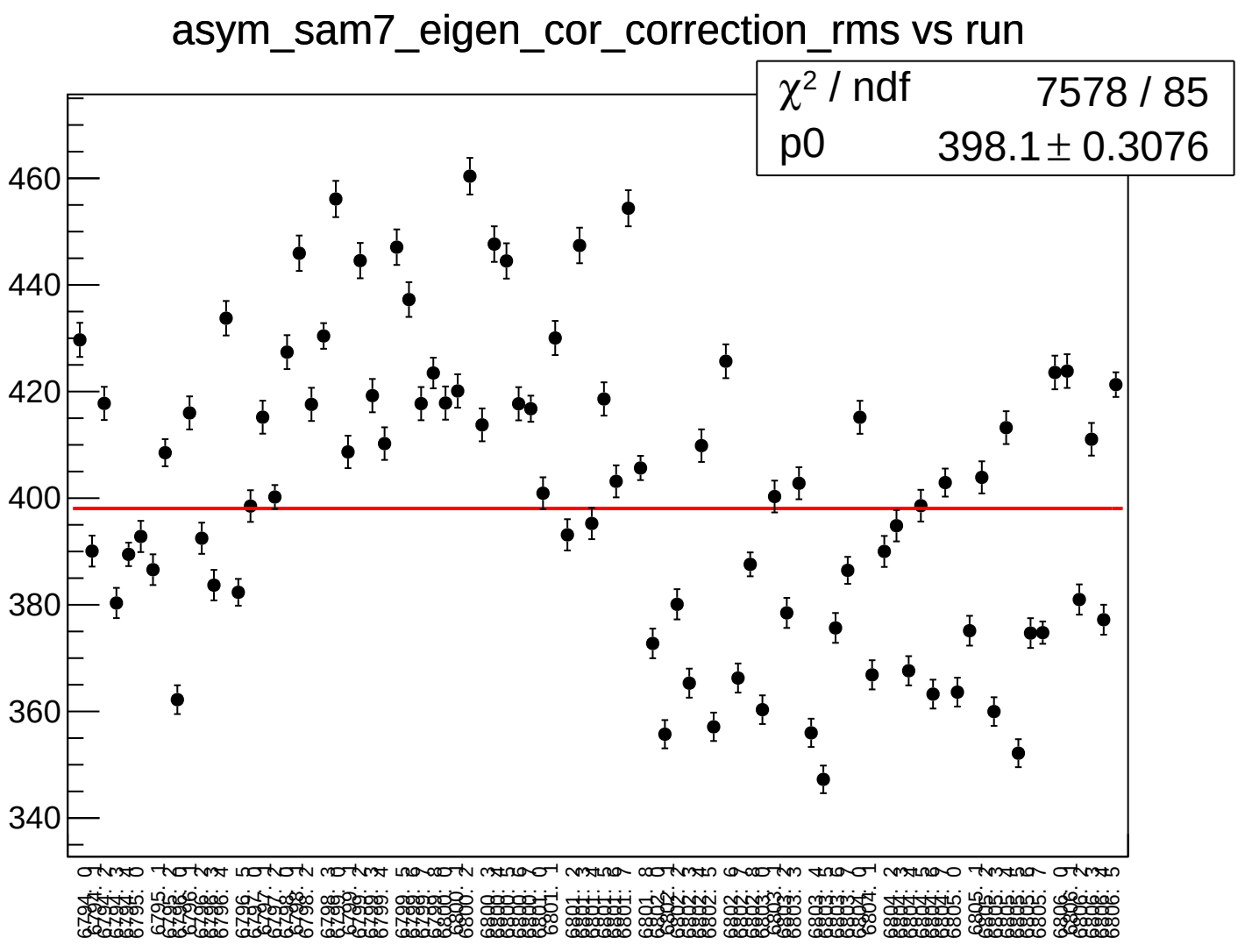

eigen_cor_asym_sam7_mean vs run
χ² / ndf 76.65 / 85
p0 −239.1± 73.39
pull
Entries 86
Mean 533.2
Std Dev 0

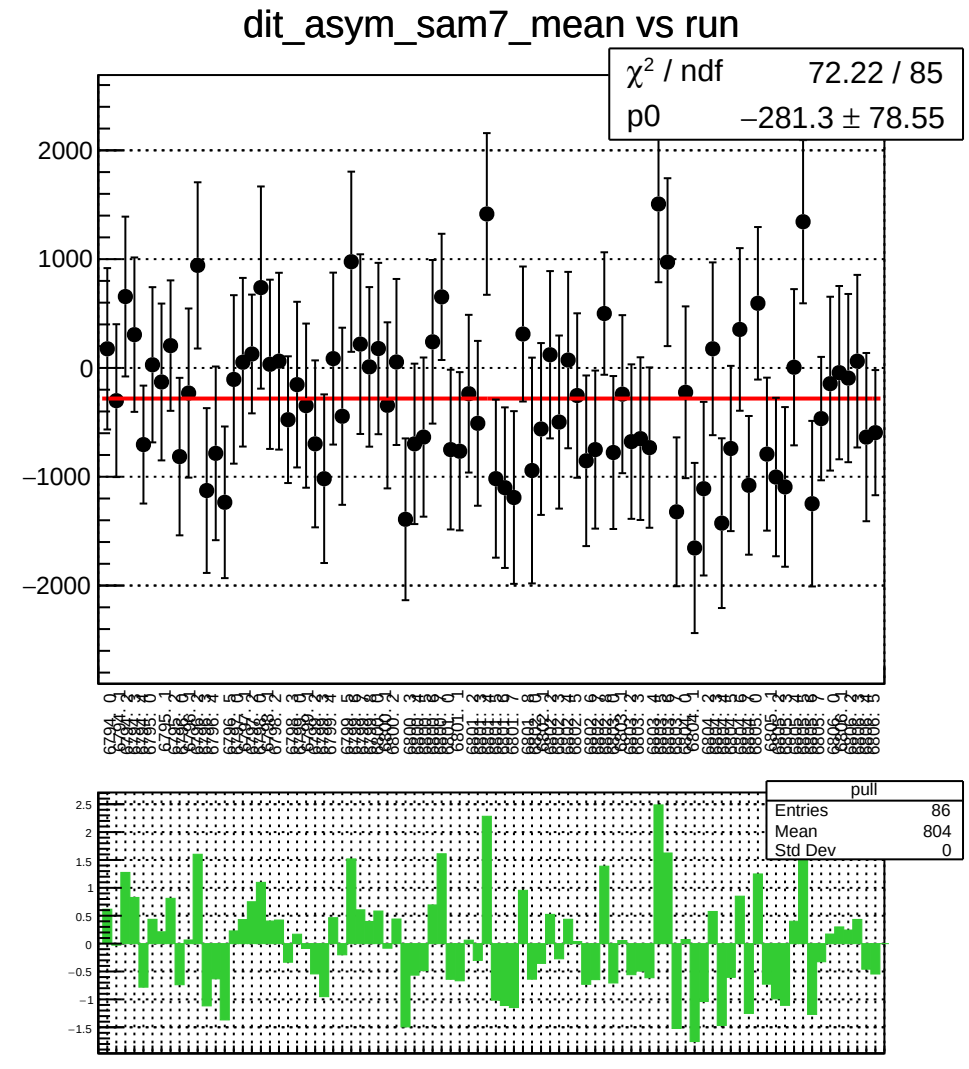

pull1D
Entries 86
Mean −0.008435
Std Dev 0.944

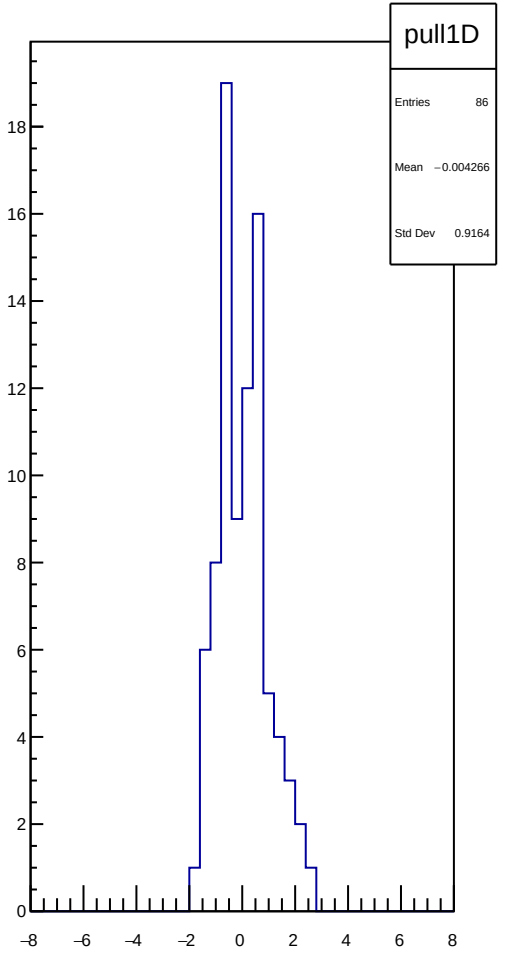

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 6427 / 85
p0 67.18 ± 0.05189
95
90
85
80
75
70
65
60

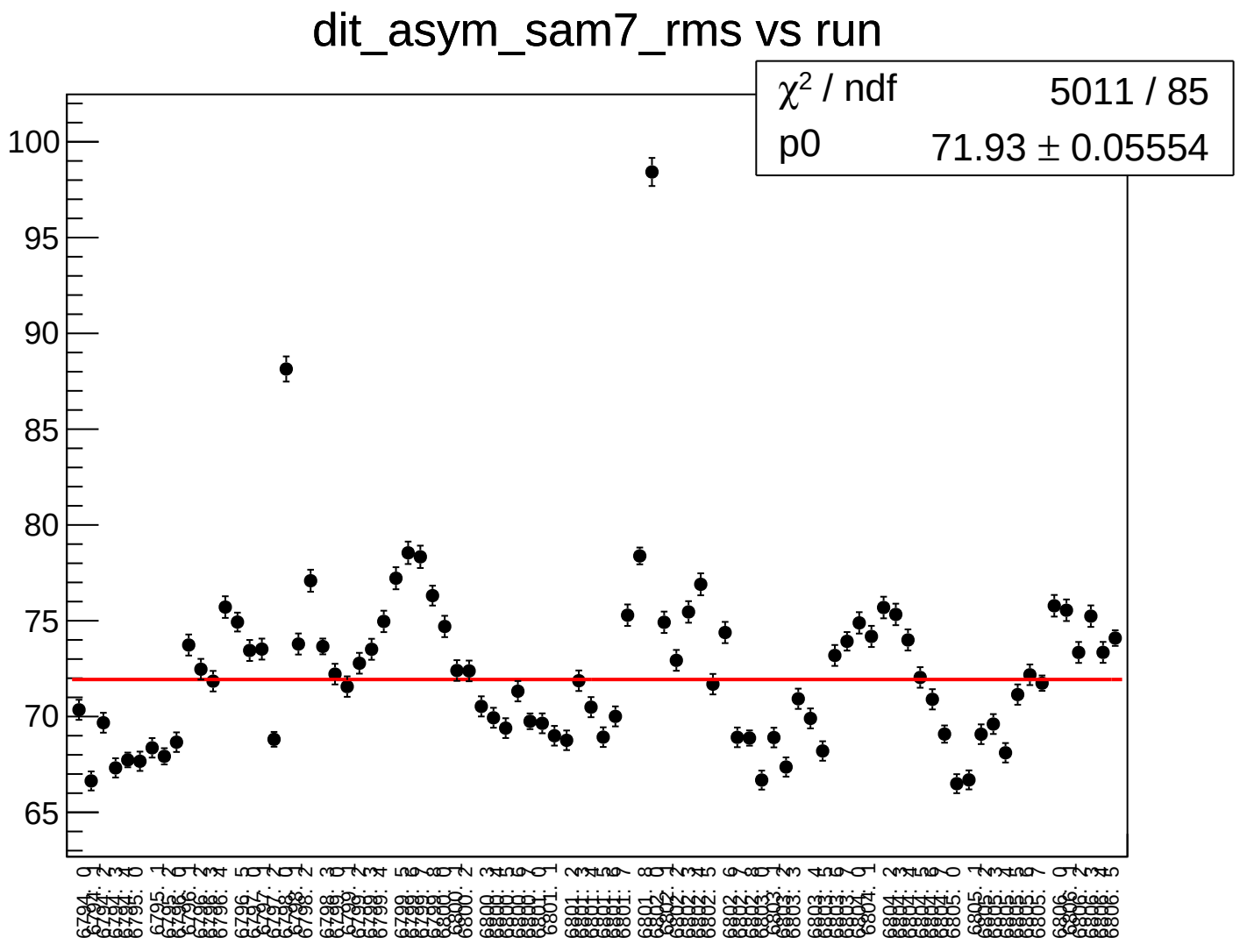

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 84.44 / 85
p0 −186.2 ± 435
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −69.76
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

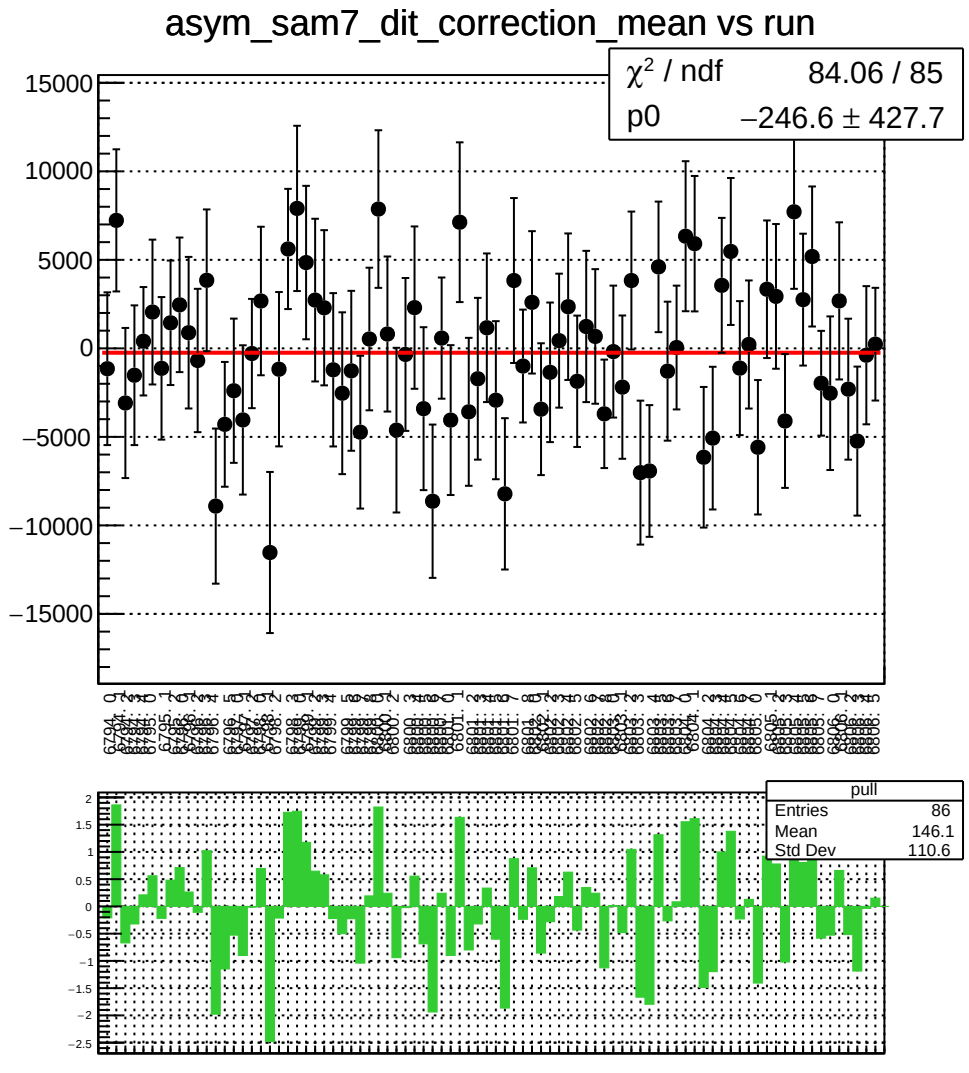

pull1D
Entries 86
Mean −0.0008135
Std Dev 0.9909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

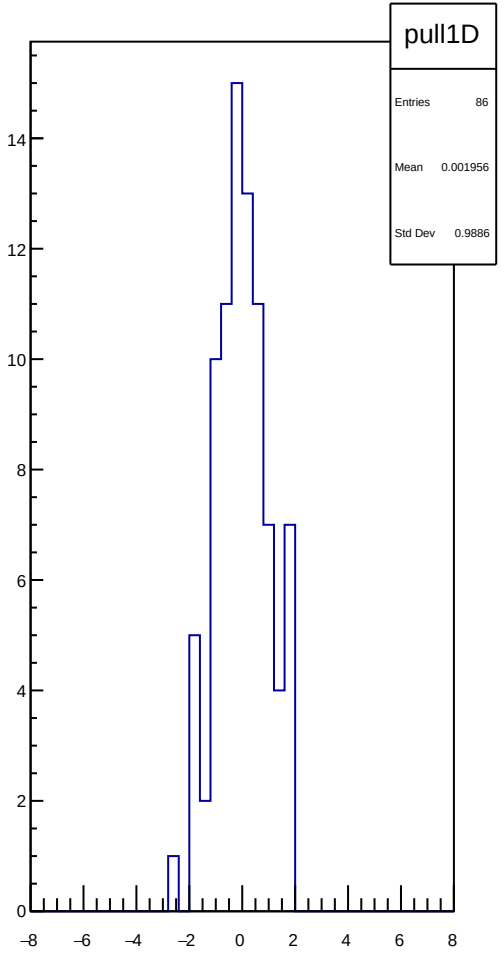

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 7578 / 85
p0 398.1 ± 0.3076
460
440
420
400
380
360
340

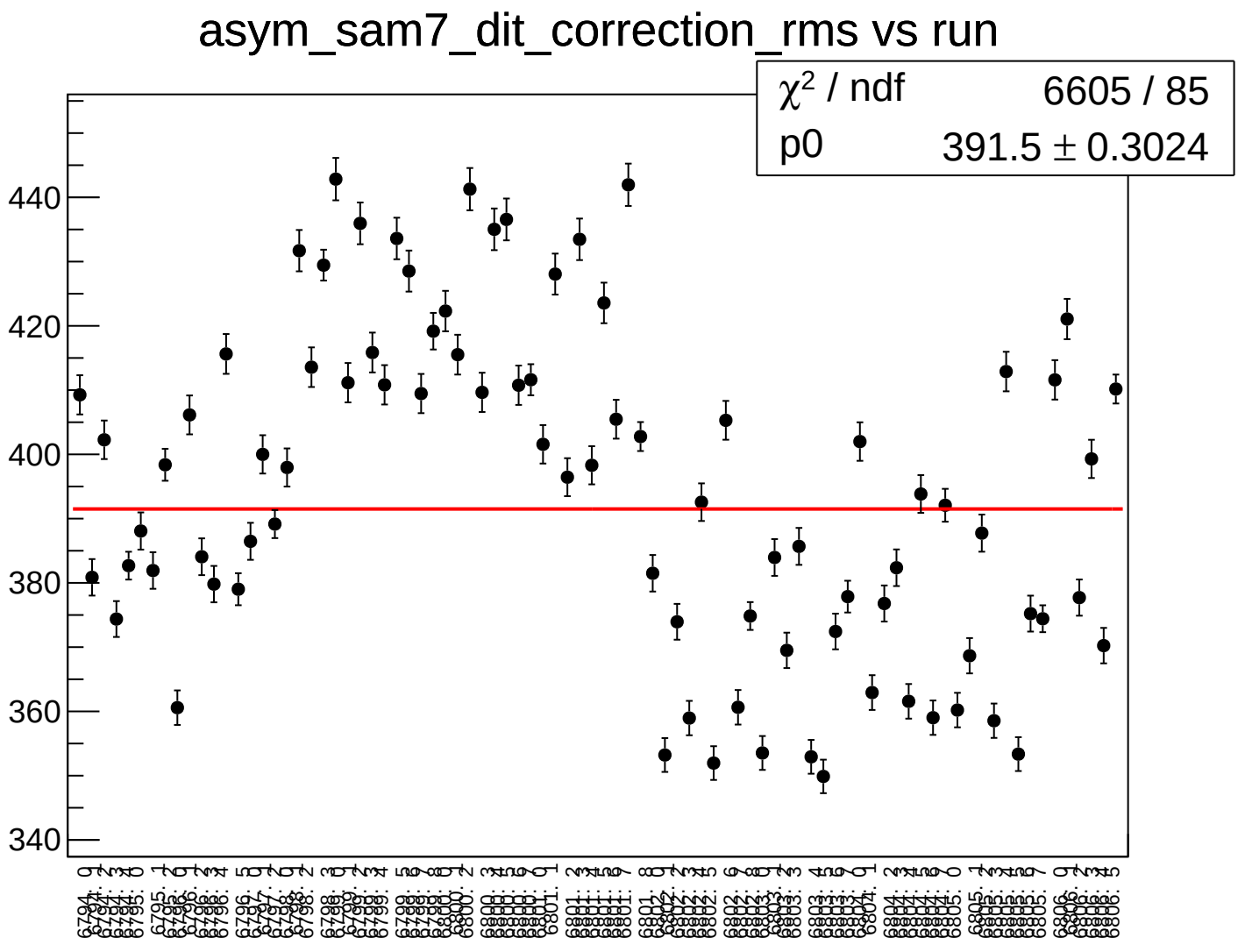

dit_asym_sam7_mean vs run
χ² / ndf 72.22 / 85
p0 −281.3 ± 78.55
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 804
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

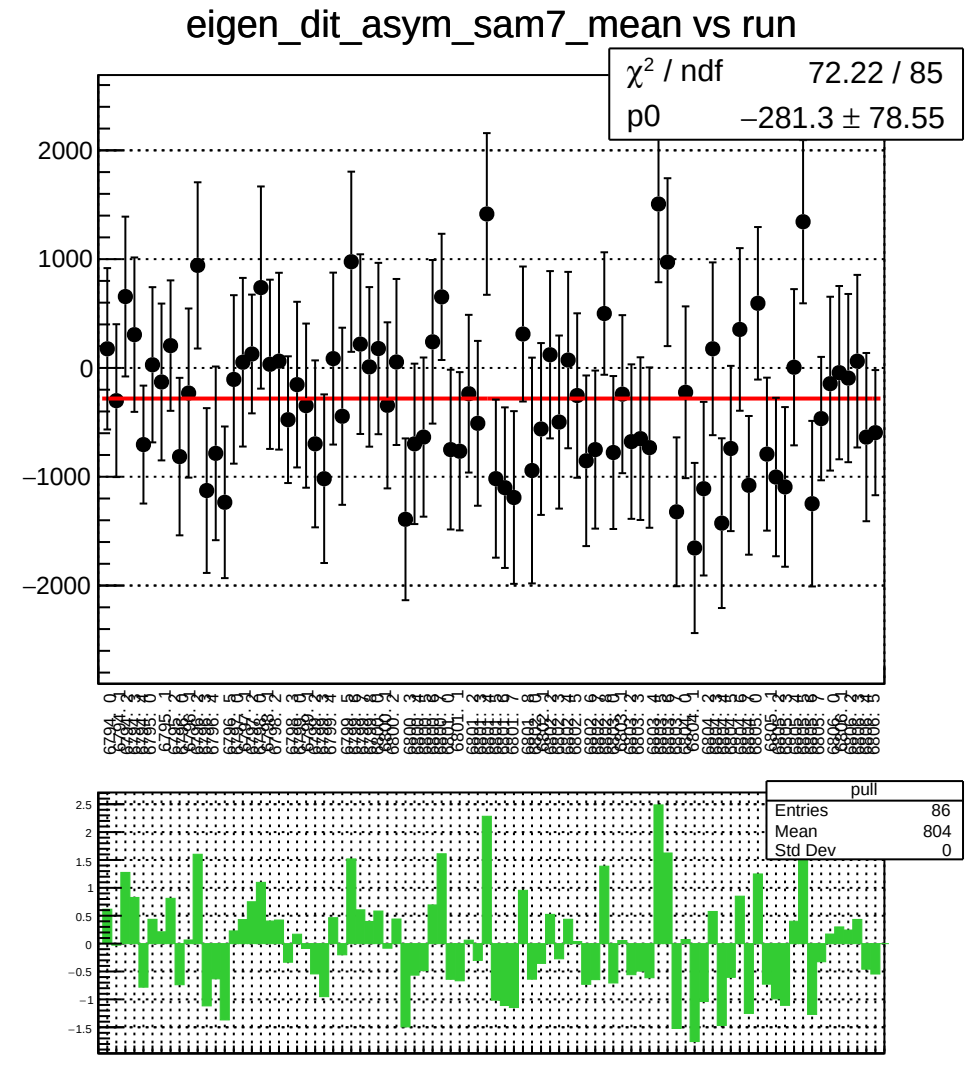

pull1D
Entries 86
Mean −0.004266
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

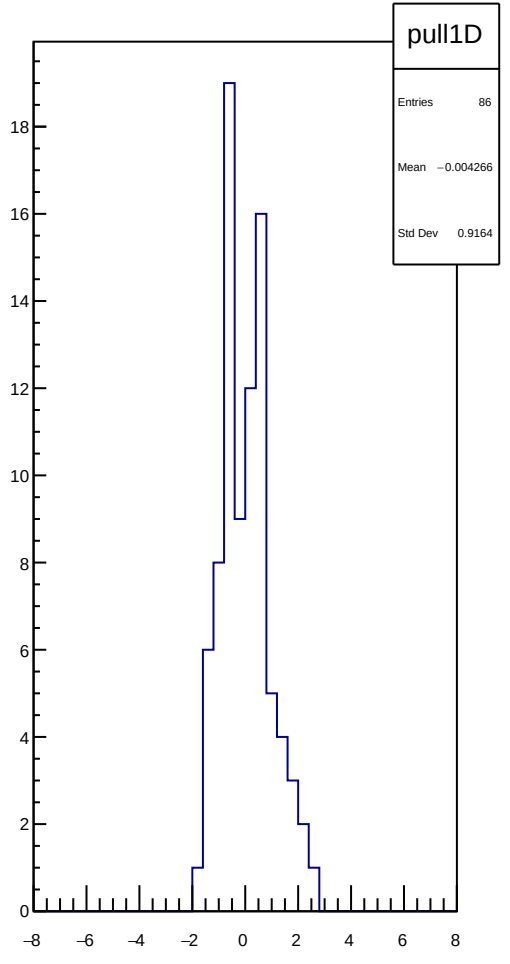

dit_asym_sam7_rms vs run
χ^2 / ndf 5011 / 85
p0 71.93 ± 0.05554
100
95
90
85
80
75
70
65

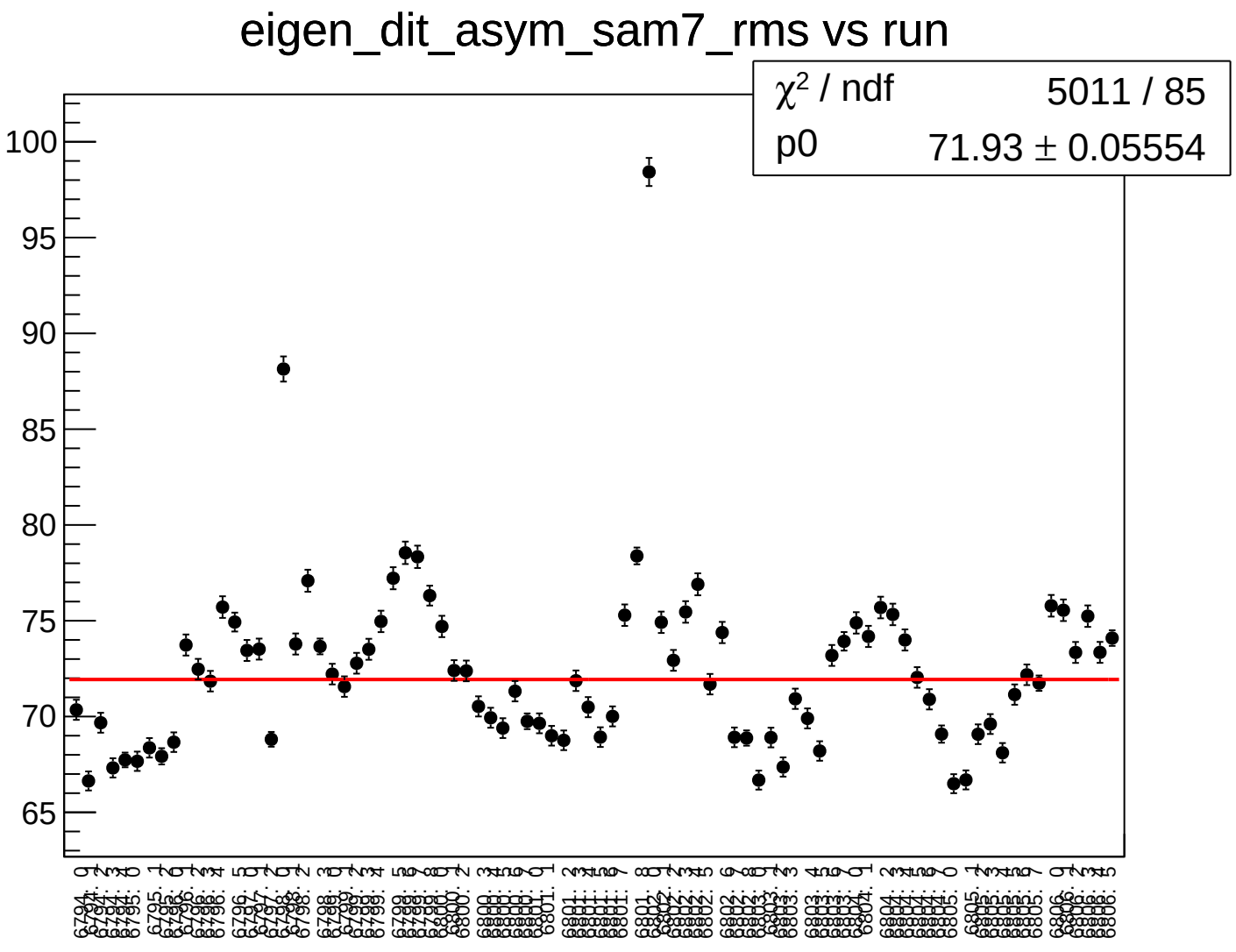

asym_sam7_dit_correction_mean vs run
χ² / ndf 84.06 / 85
p0 −246.6 ± 427.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean 146.1
Std Dev 110.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

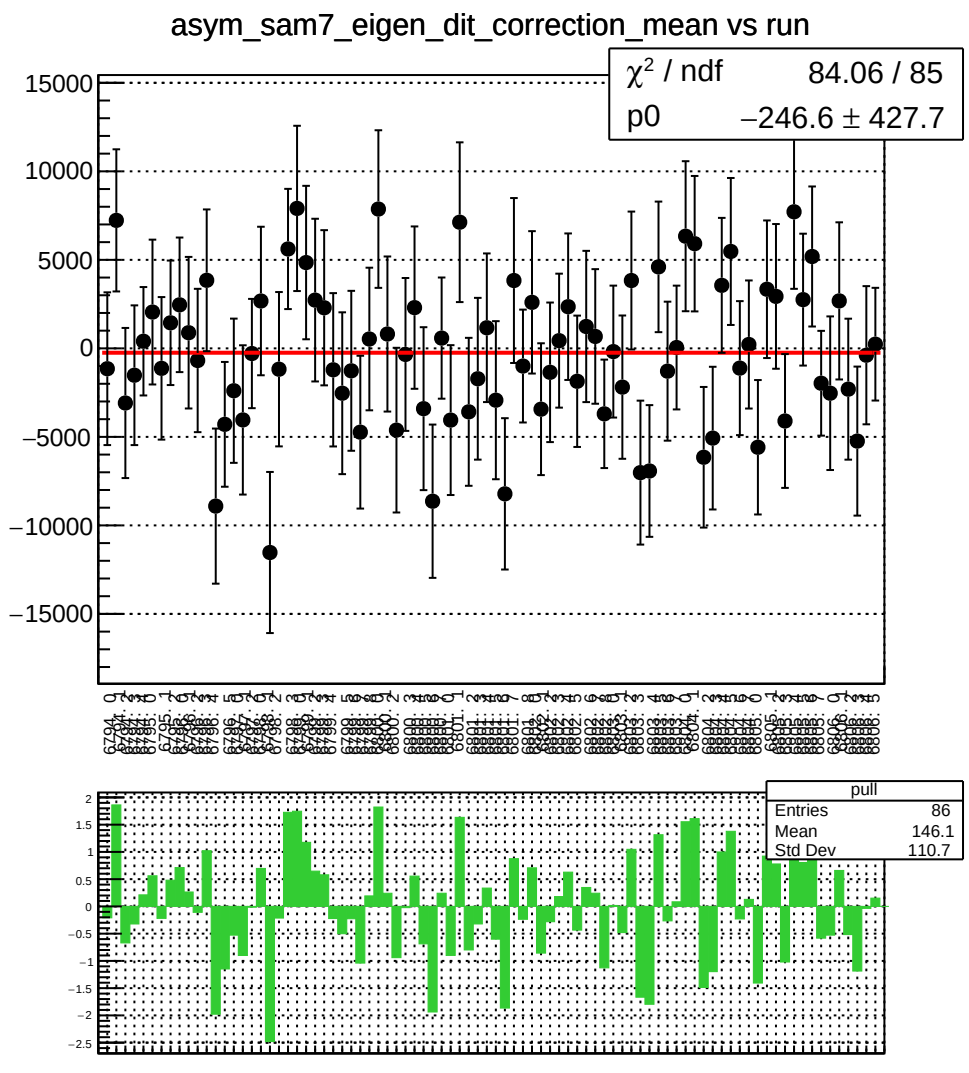

pull1D
Entries 86
Mean 0.001956
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

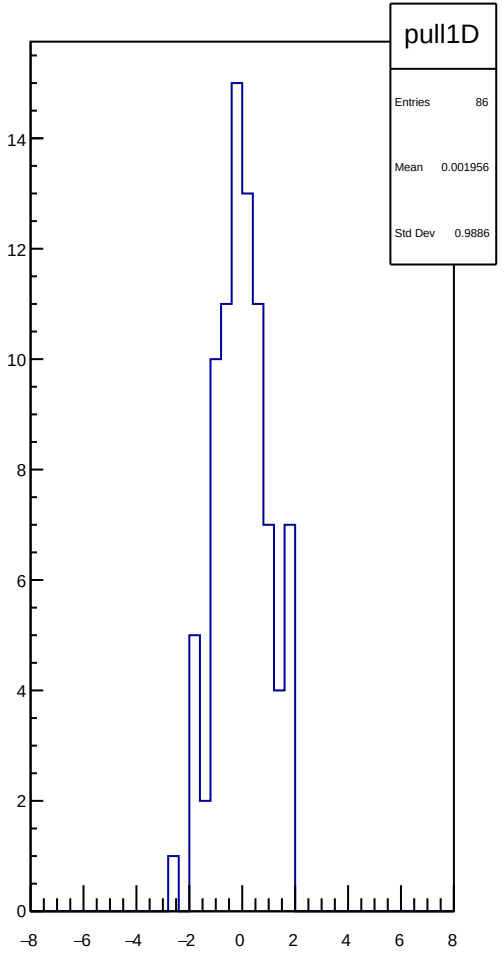

asym_sam7_dit_correction_rms vs run
χ² / ndf 6605 / 85
p0 391.5 ± 0.3024
440
420
400
380
360
340

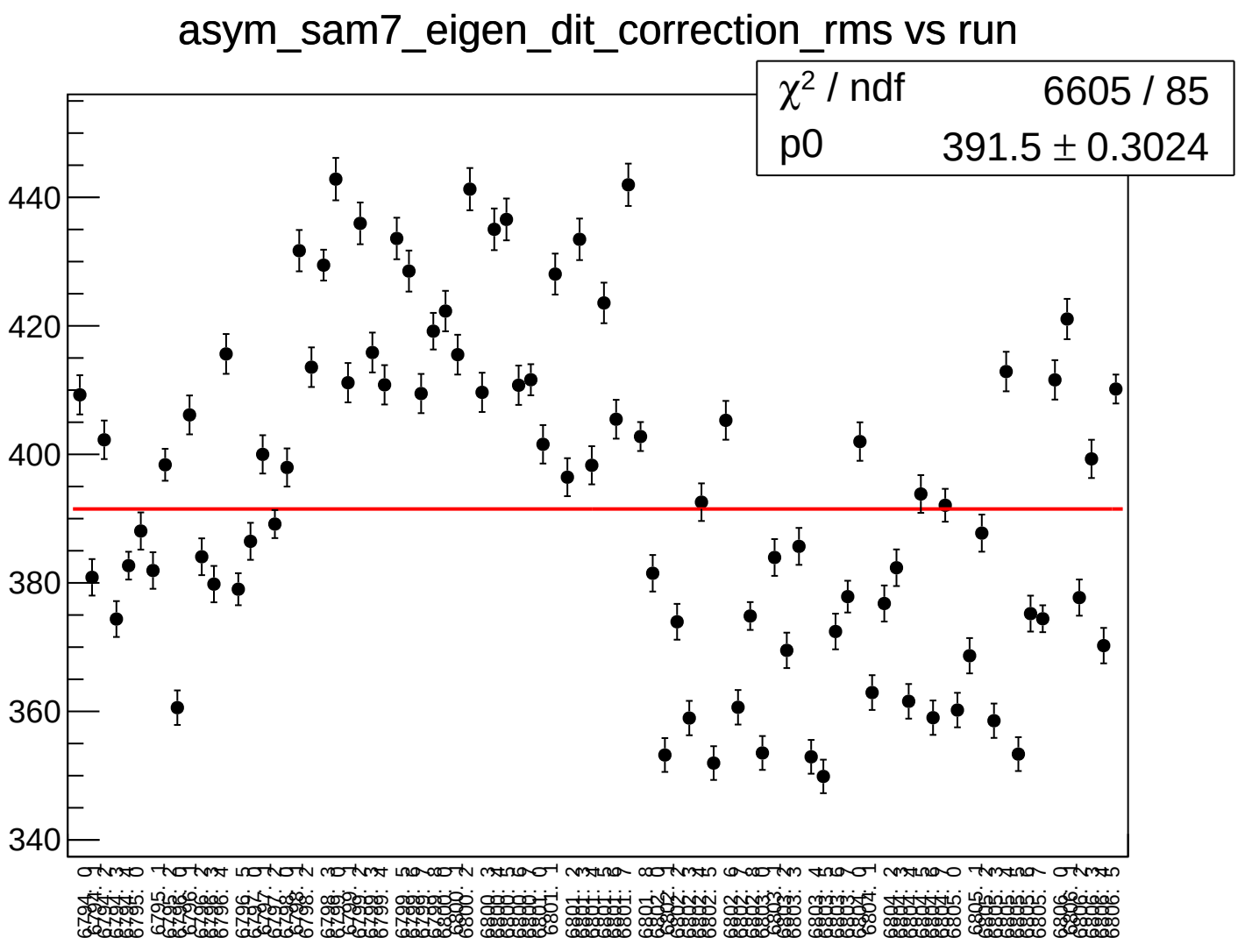

eigen_dit_asym_sam7_mean vs run
χ² / ndf 72.22 / 85
p0 −281.3 ± 78.55
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 804
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

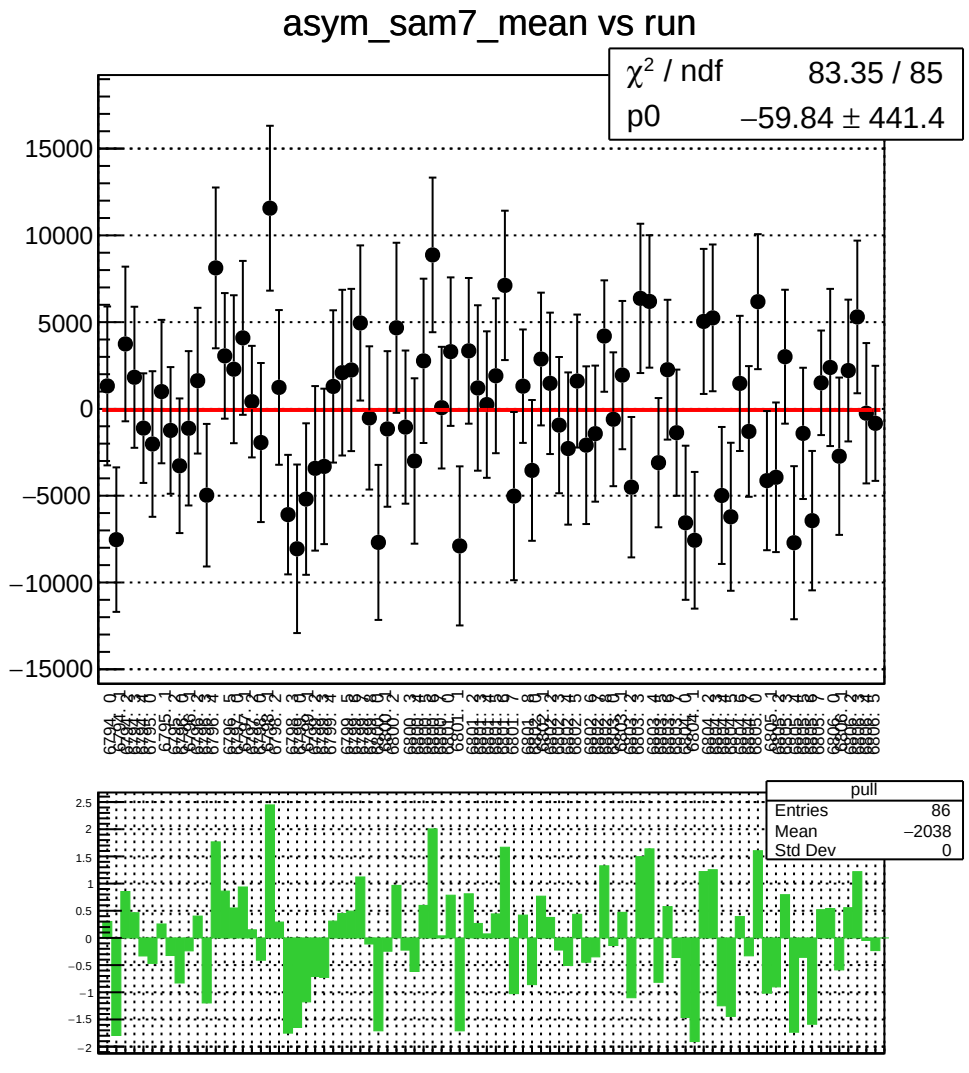

pull1D
Entries 86
Mean −0.004266
Std Dev 0.9164
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

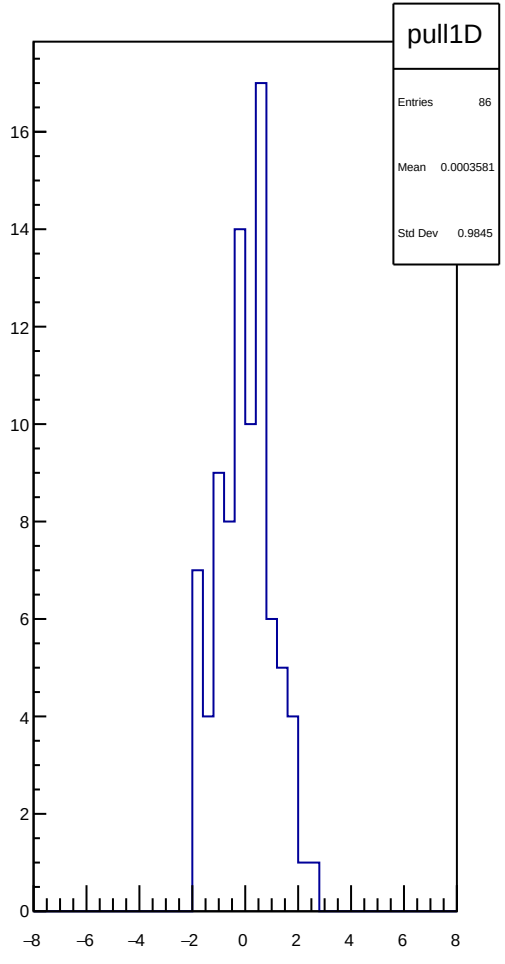

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 5011 / 85
p0 71.93 ± 0.05554
100
95
90
85
80
75
70
65

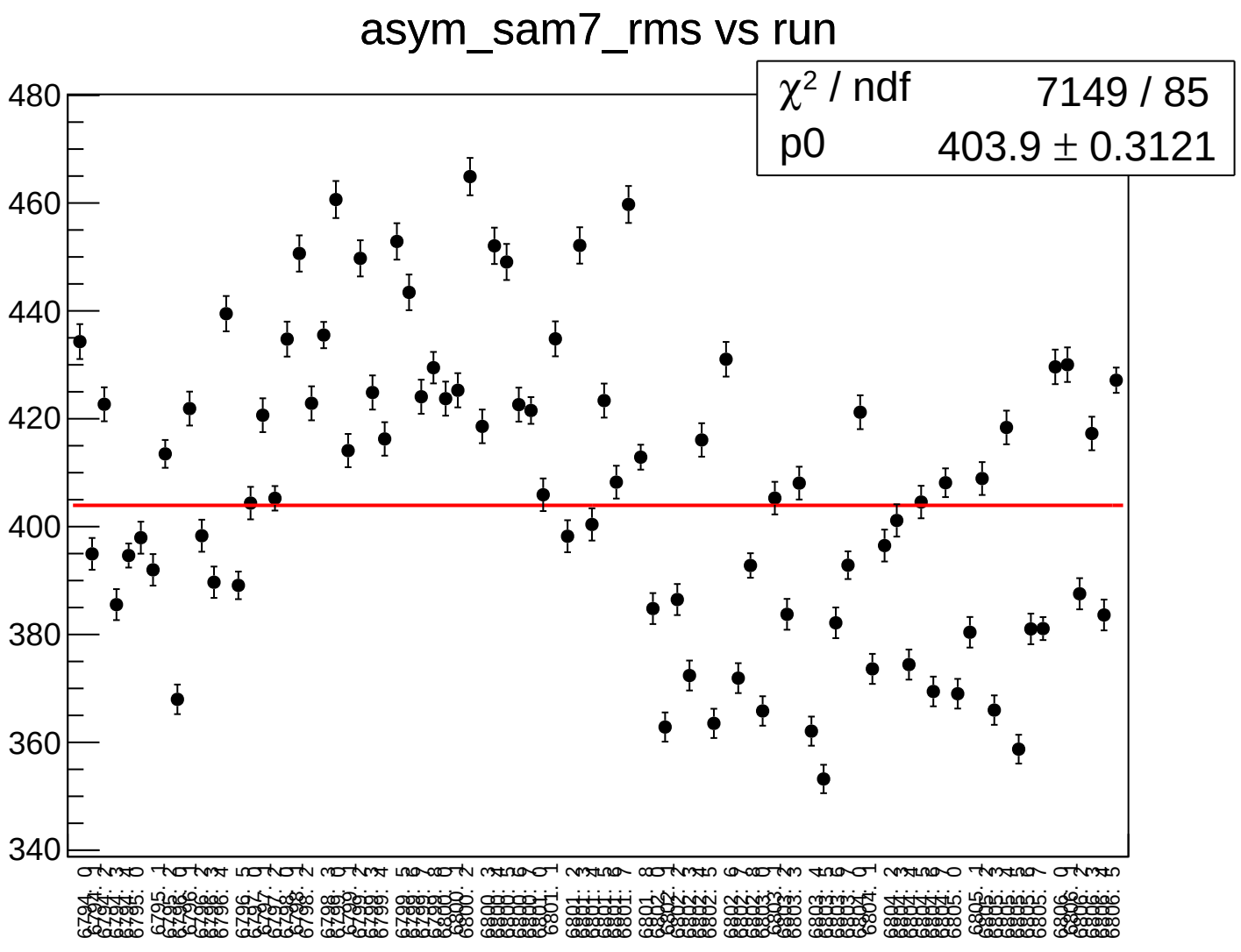

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 84.06 / 85
p0 −246.6 ± 427.7
pull
Entries 86
Mean 146.1
Std Dev 110.7

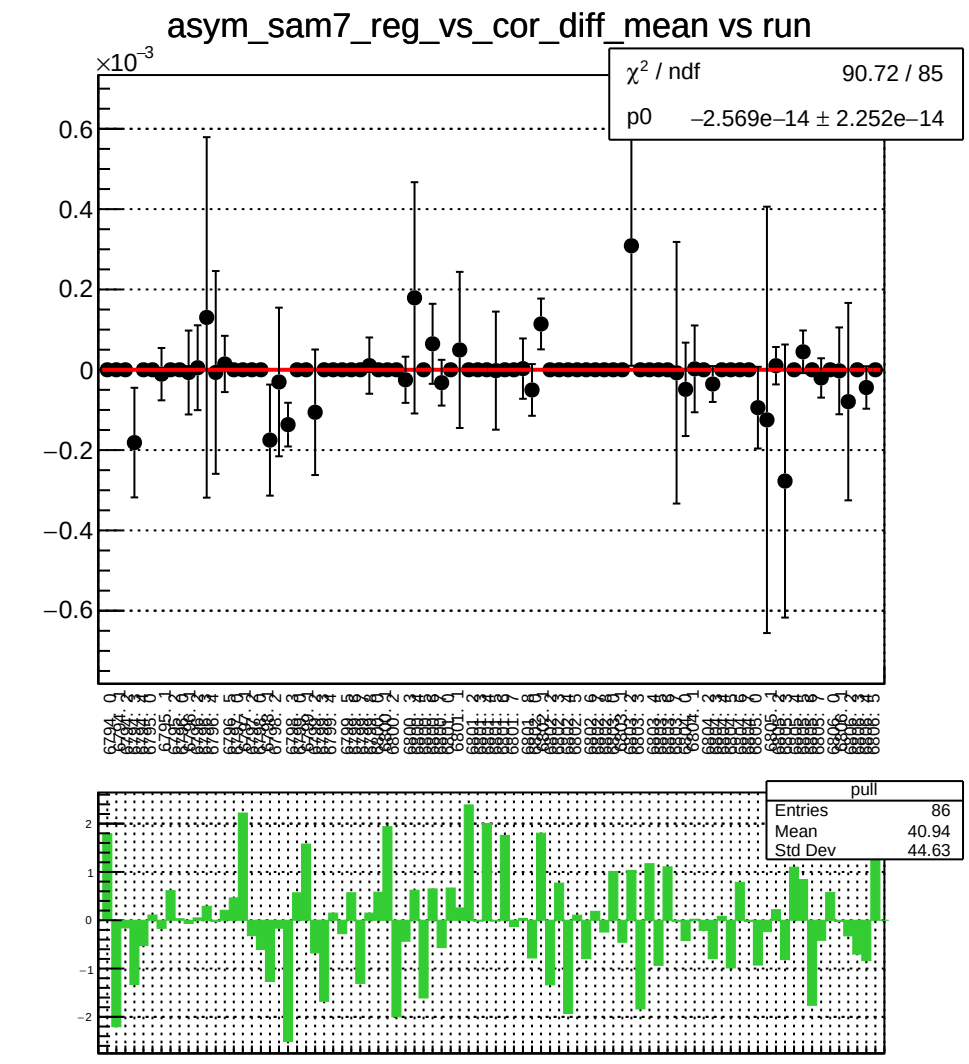

pull1D
Entries 86
Mean 0.001956
Std Dev 0.9886

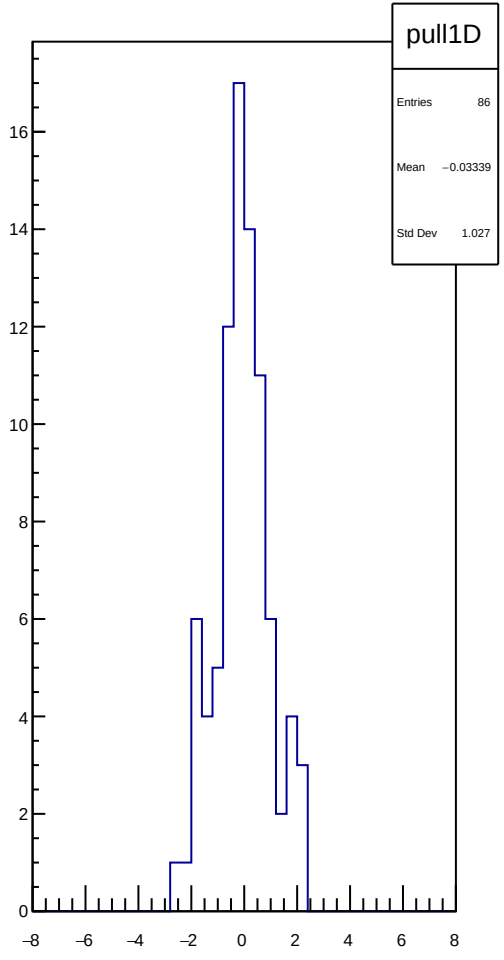

asym_sam7_eigen_dit_correction_rms vs run
χ^2 / ndf 6605 / 85
p0 391.5 ± 0.3024
440
420
400
380
360
340

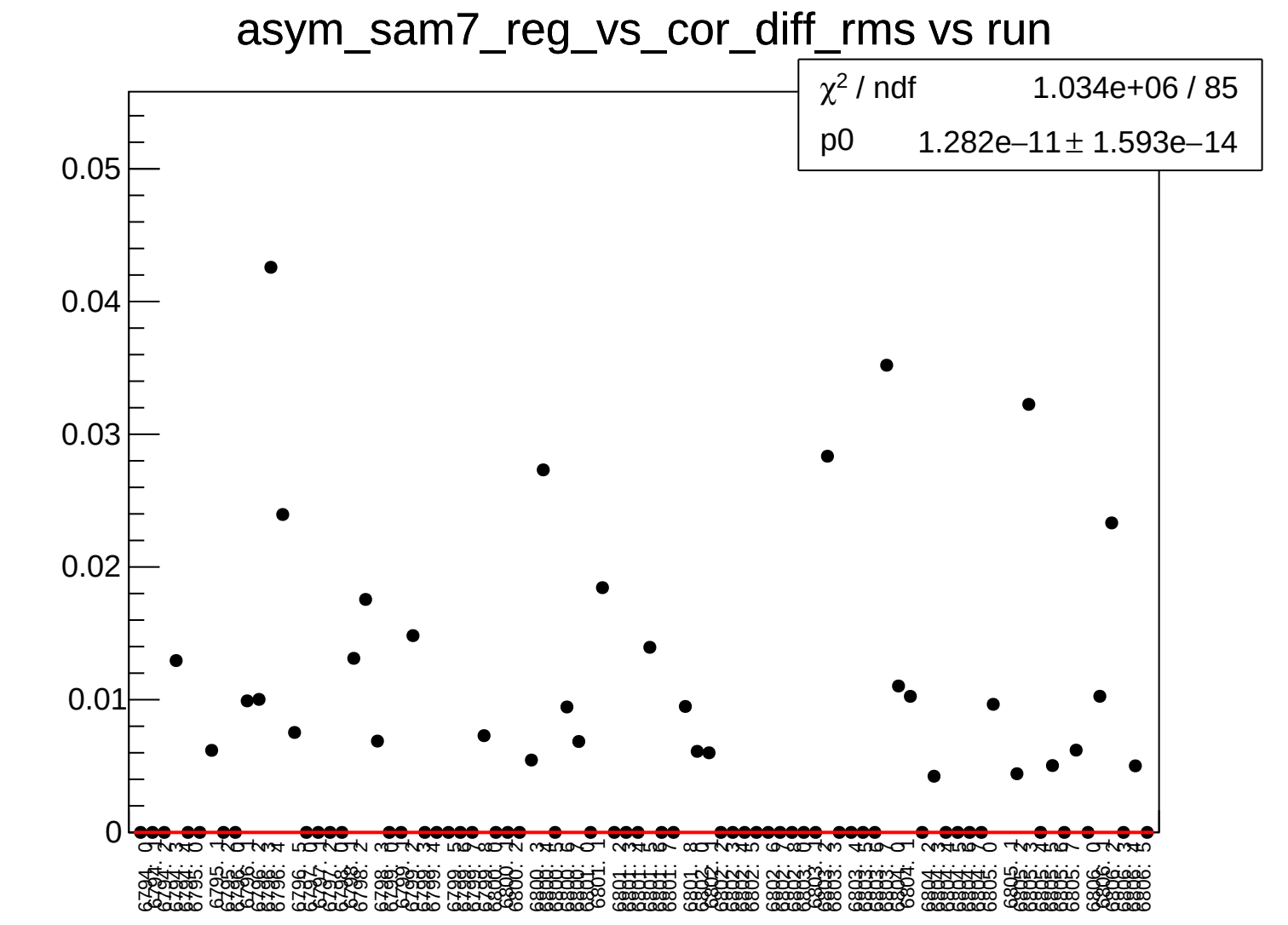

asym_sam7_mean vs run
χ² / ndf 83.35 / 85
p0 −59.84 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −2038
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

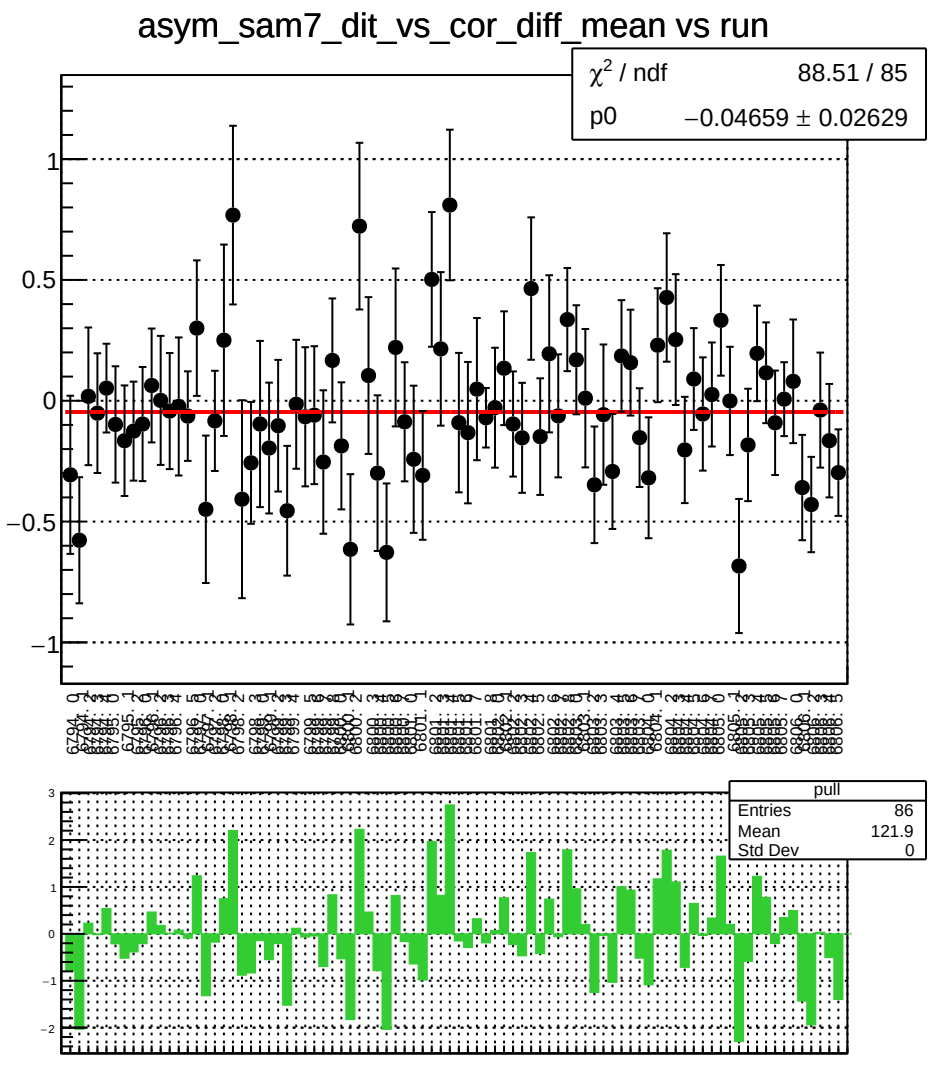

pull1D
Entries 86
Mean 0.0003581
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

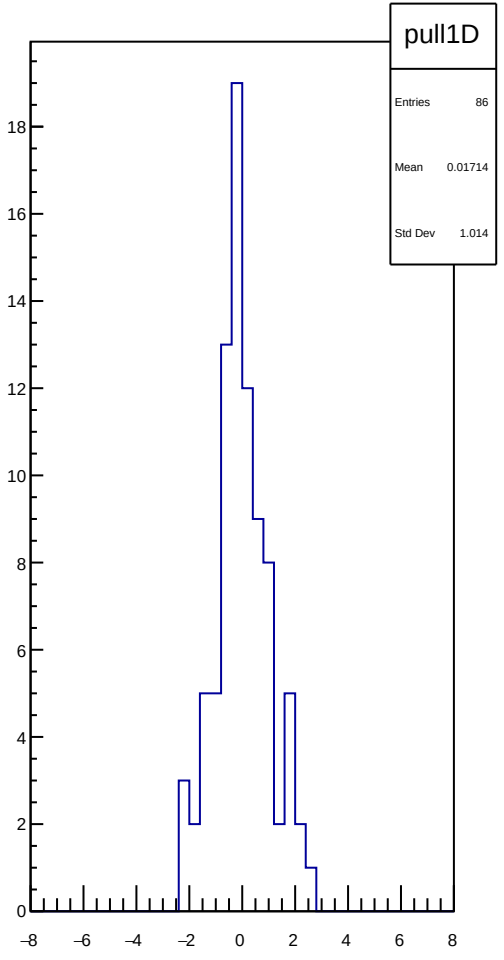

asym_sam7_rms vs run
χ² / ndf 7149 / 85
p0 403.9 ± 0.3121
480
460
440
420
400
380
360
340

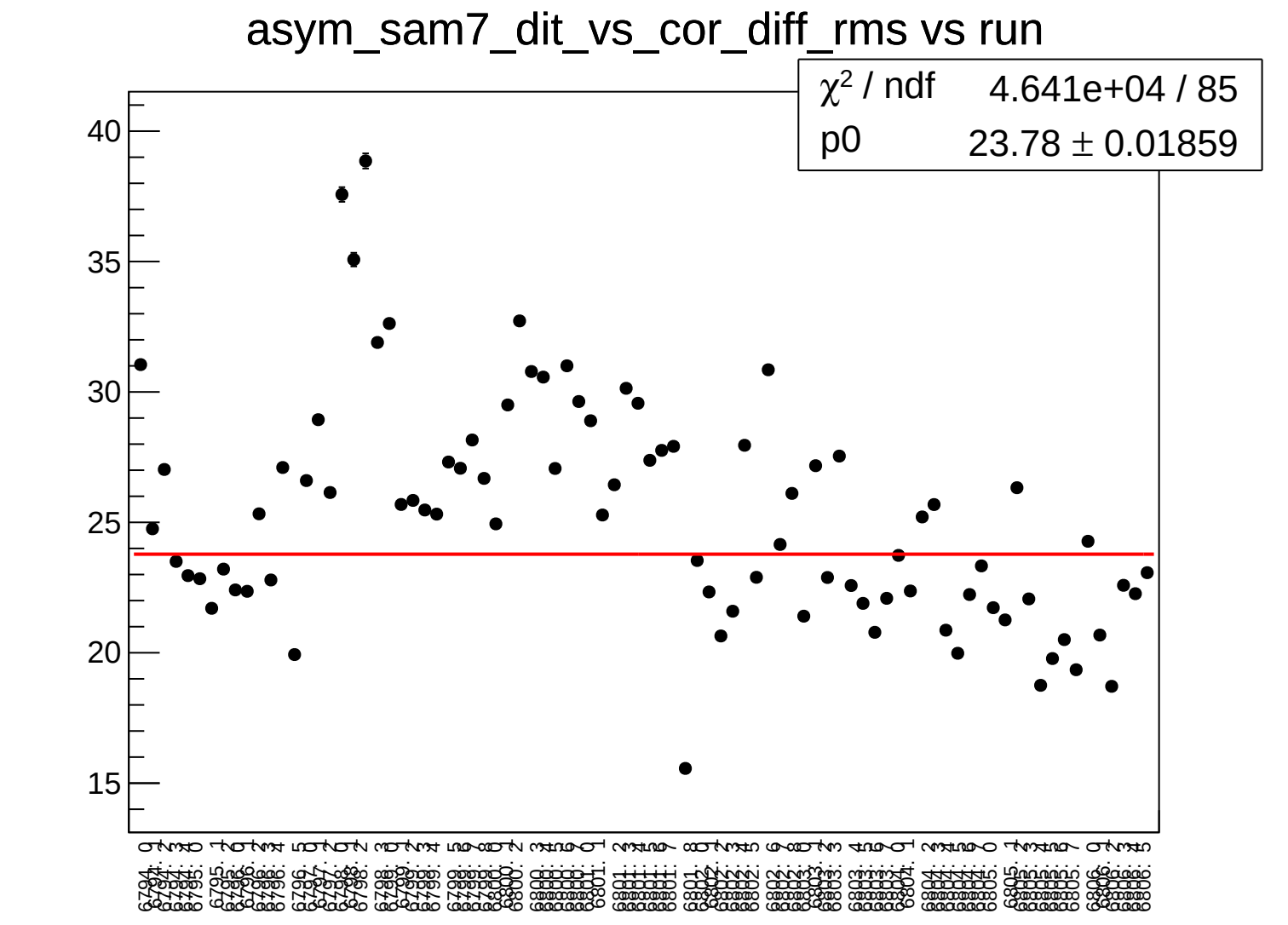

asym_sam7_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 90.72 / 85
p0 −2.569e−14 ± 2.252e−14
pull
Entries 86
Mean 40.94
Std Dev 44.63

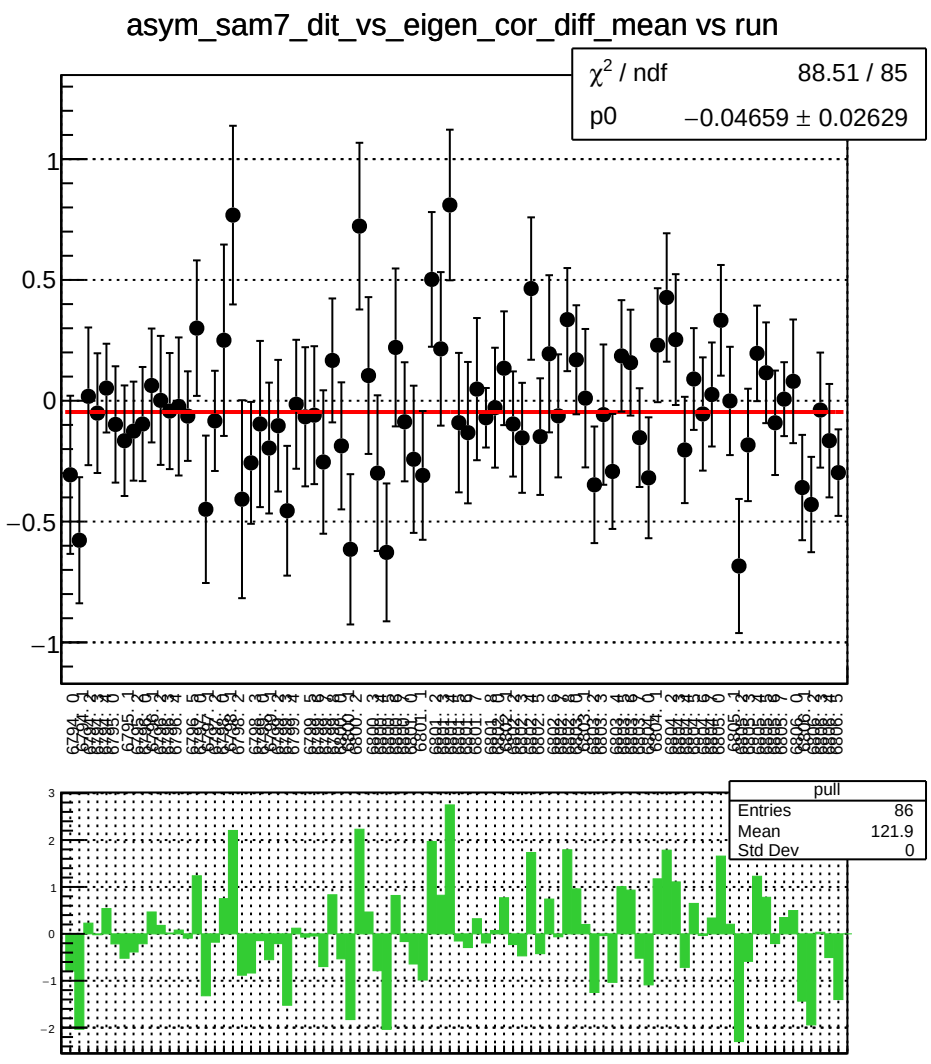

pull1D
Entries 86
Mean −0.03339
Std Dev 1.027

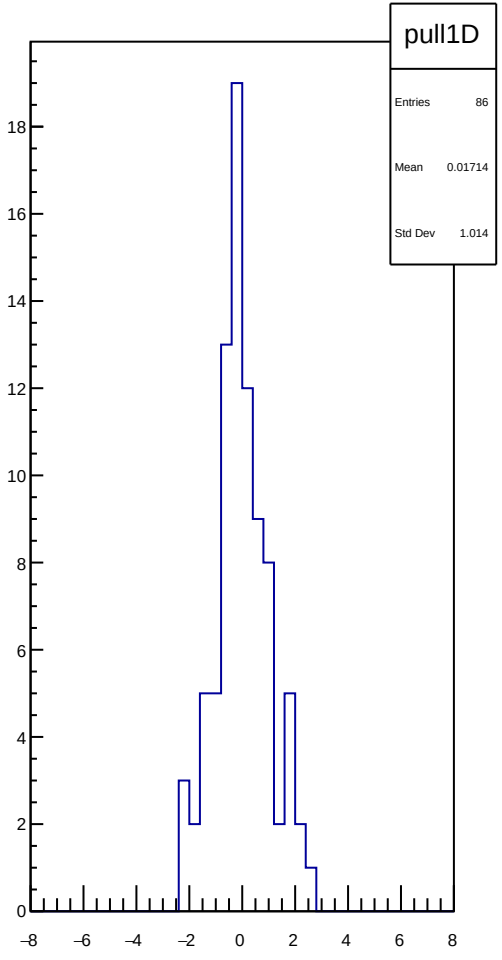

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 85
p0 1.282e−11 ± 1.593e−14
0.05
0.04
0.03
0.02
0.01
0

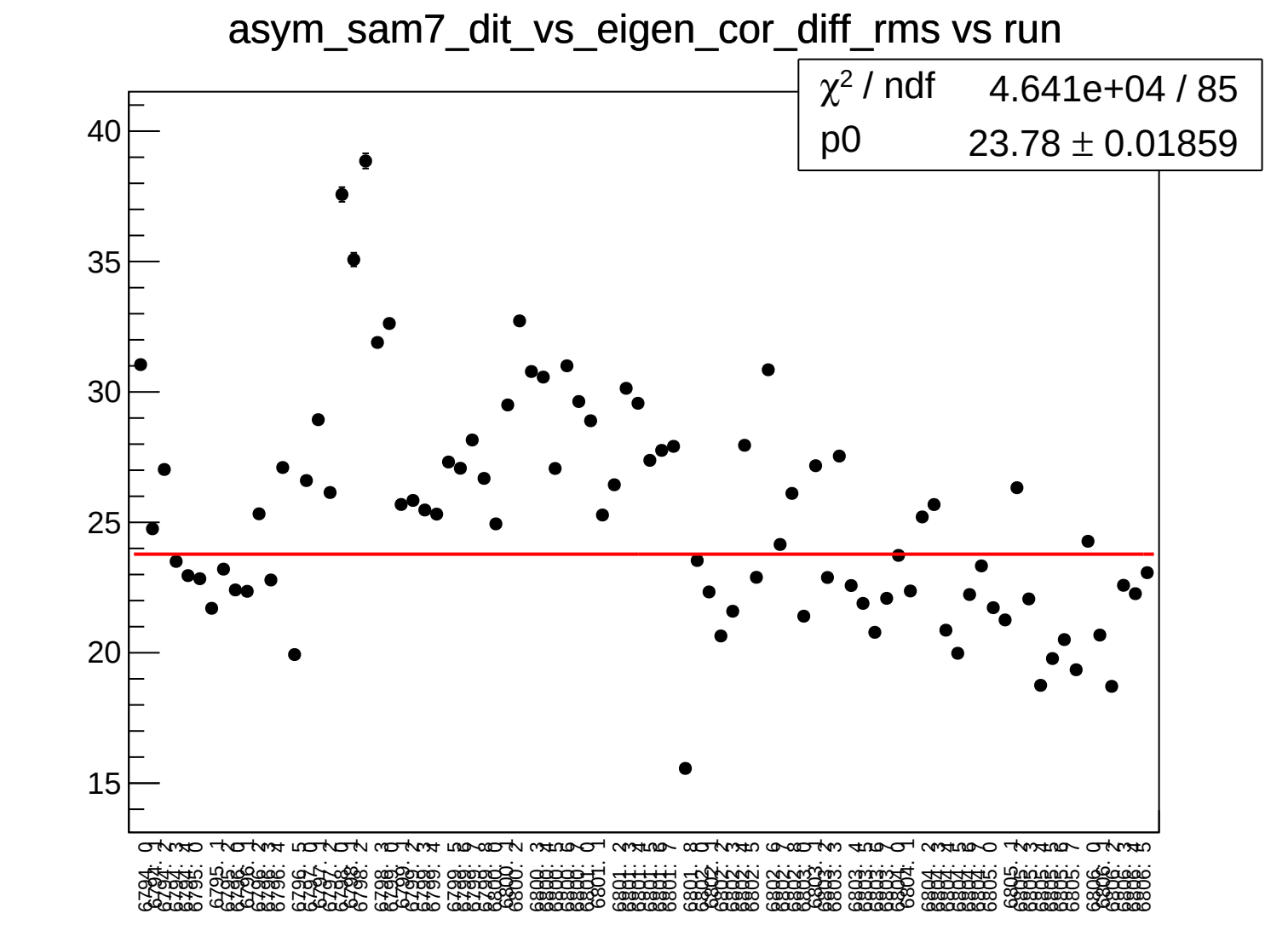

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 88.51 / 85
p0 −0.04659 ± 0.02629
pull
Entries 86
Mean 121.9
Std Dev 0

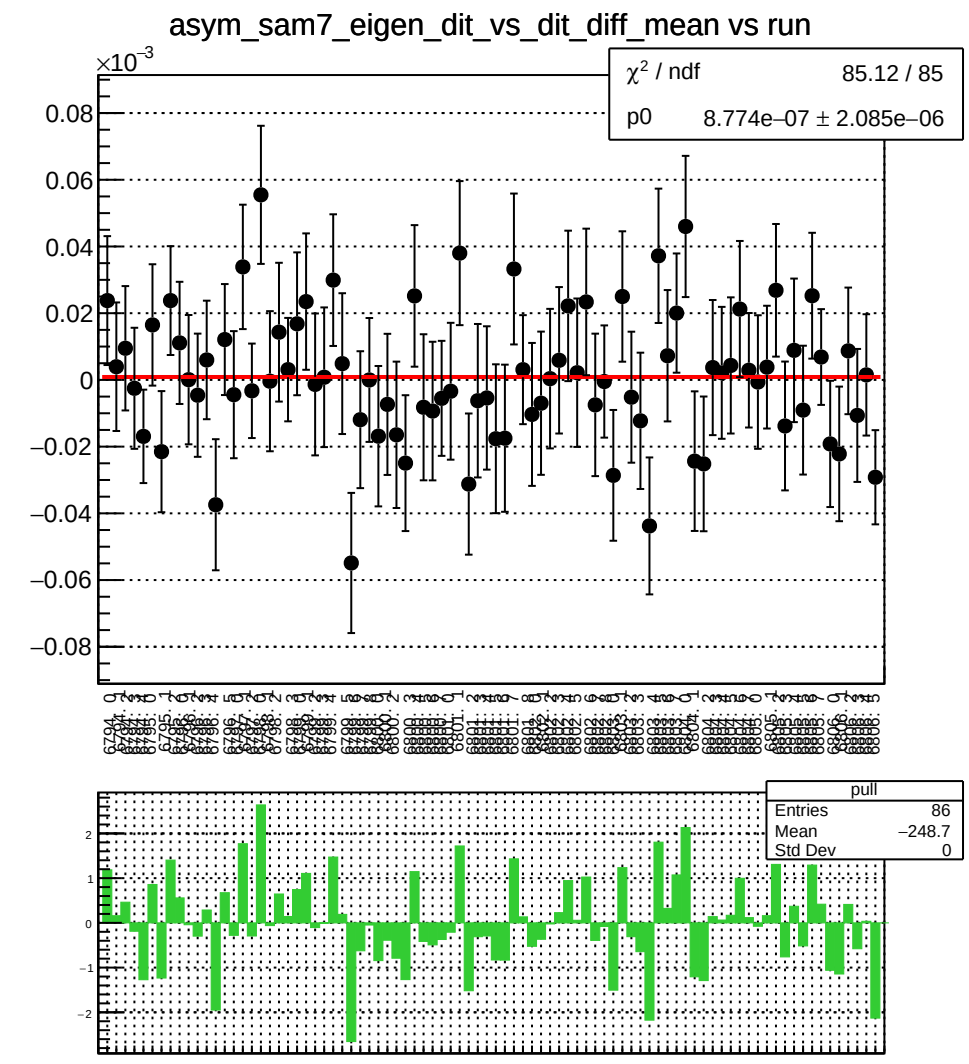

pull1D
Entries 86
Mean 0.01714
Std Dev 1.014

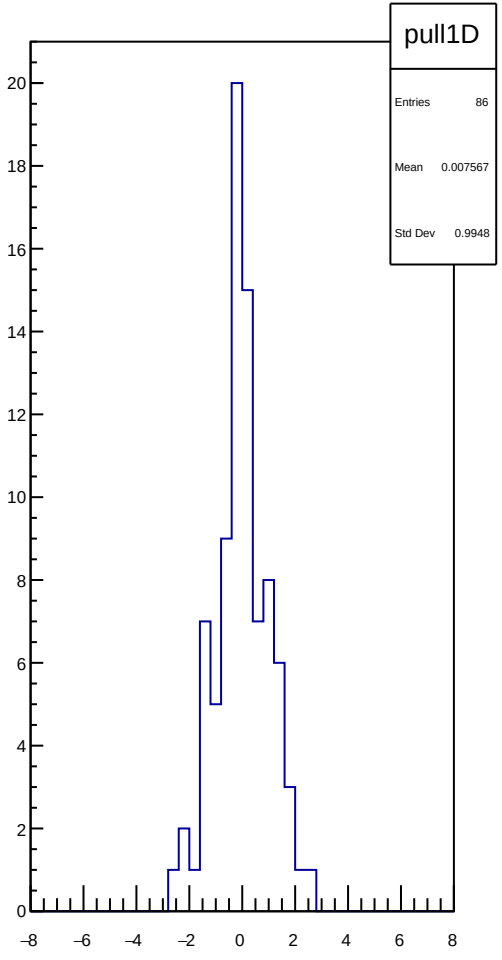

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 85
p0 23.78 ± 0.01859
40
35
30
25
20
15

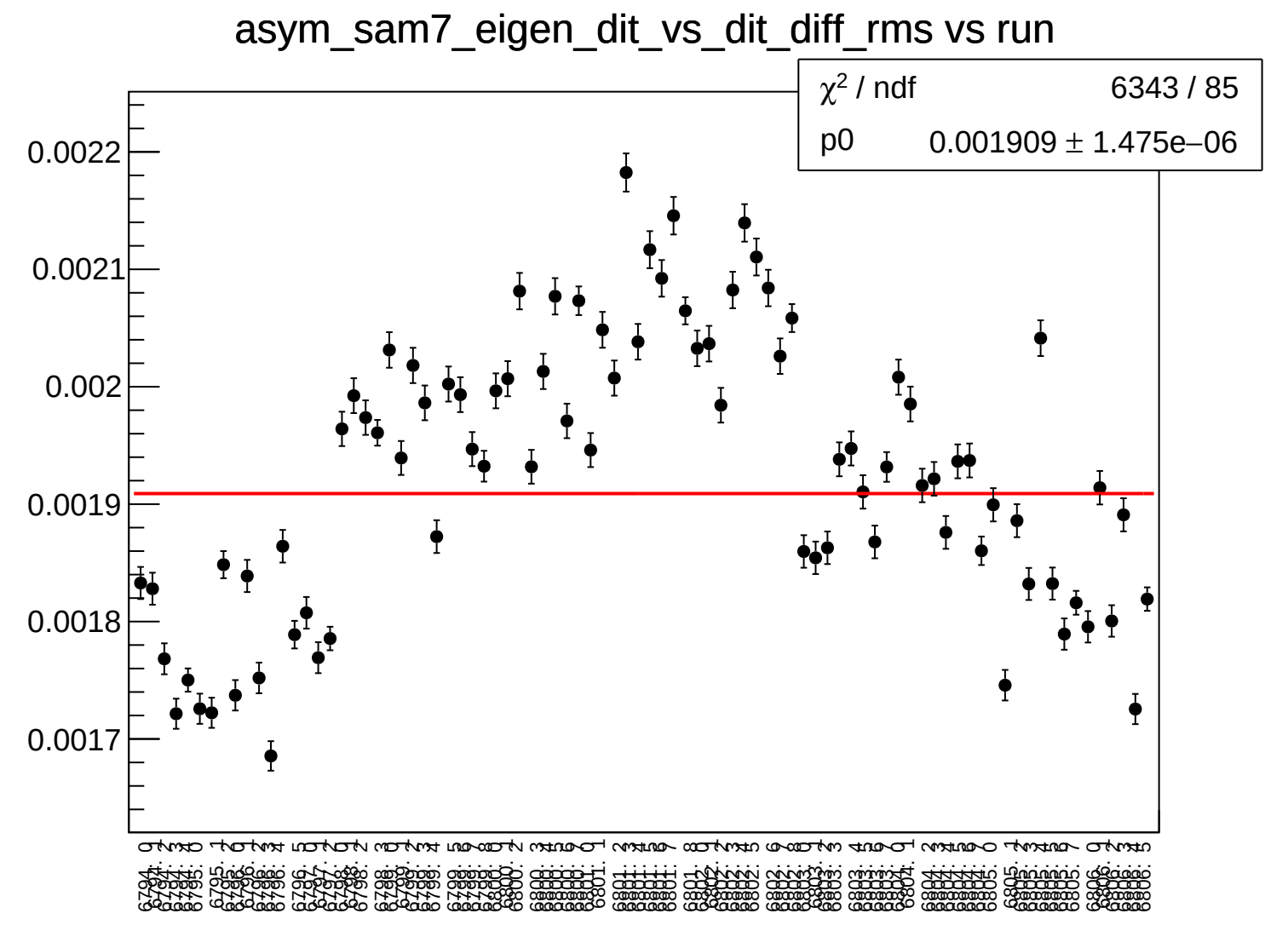

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.51 / 85
p0 −0.04659 ± 0.02629
pull
Entries 86
Mean 121.9
Std Dev 0

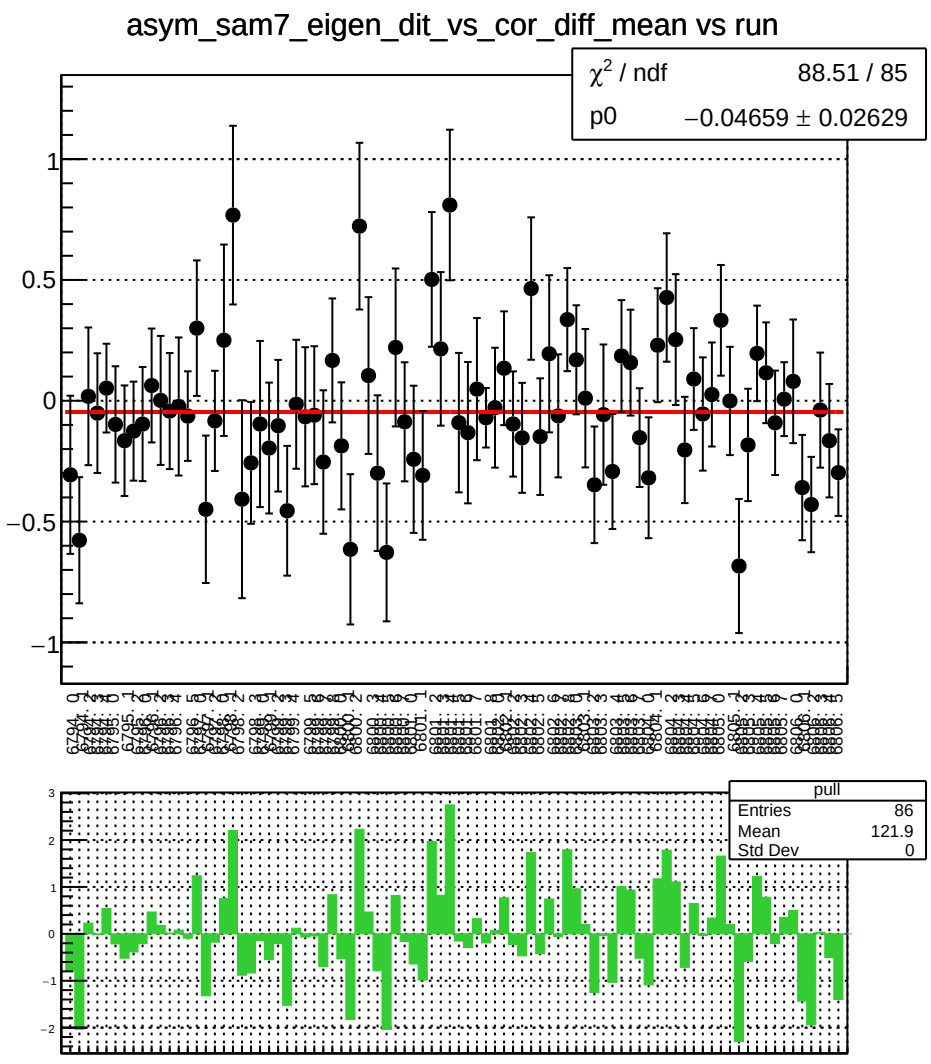

pull1D
Entries 86
Mean 0.01714
Std Dev 1.014

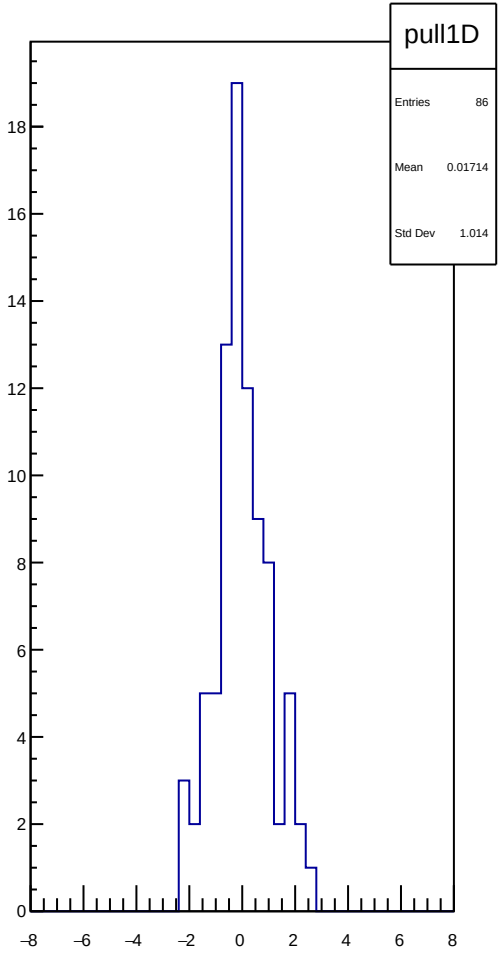

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.641e+04 / 85
p0 23.78 ± 0.01859
40
35
30
25
20
15

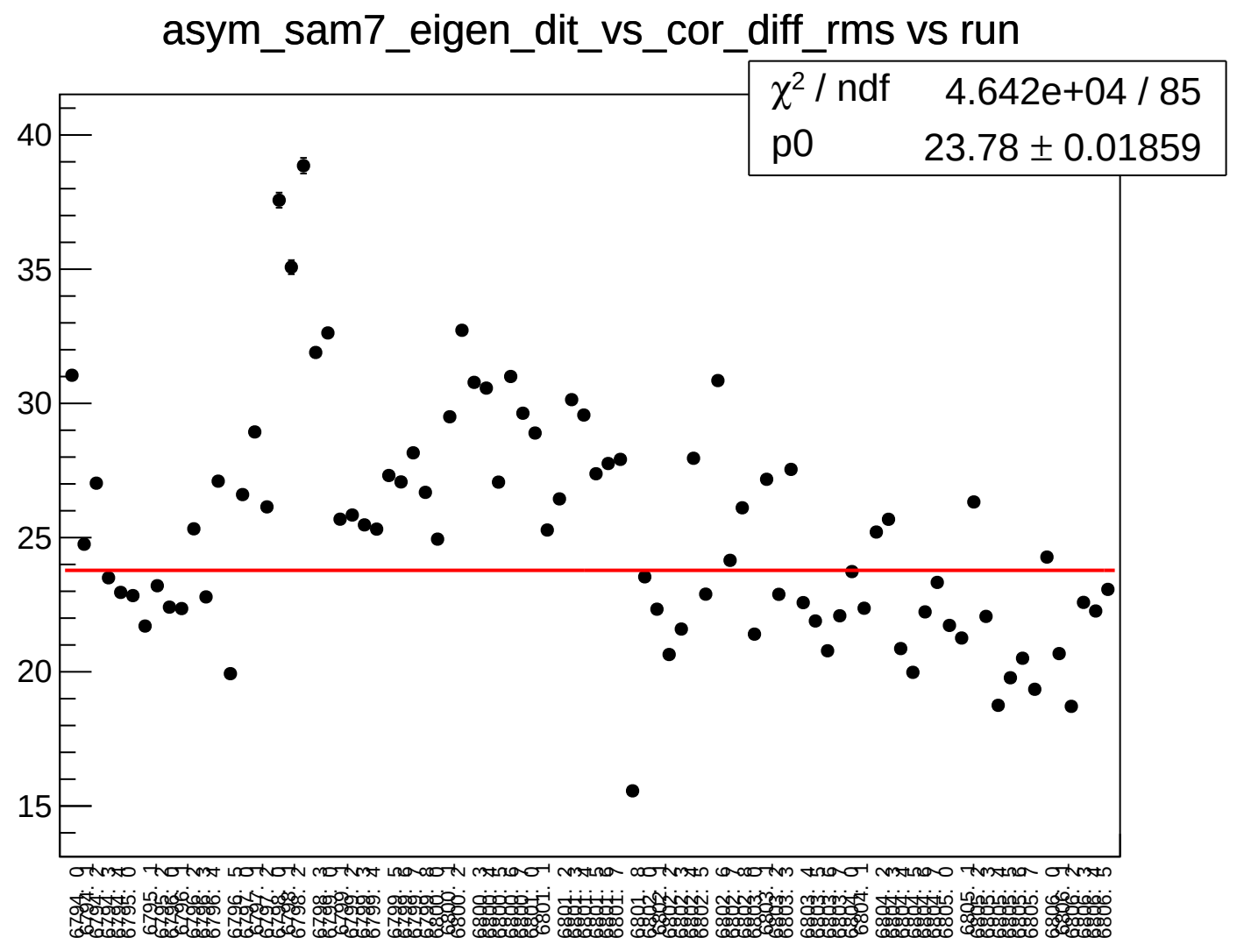

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.12 / 85
p0 8.774e−07 ± 2.085e−06
pull
Entries 86
Mean −248.7
Std Dev 0

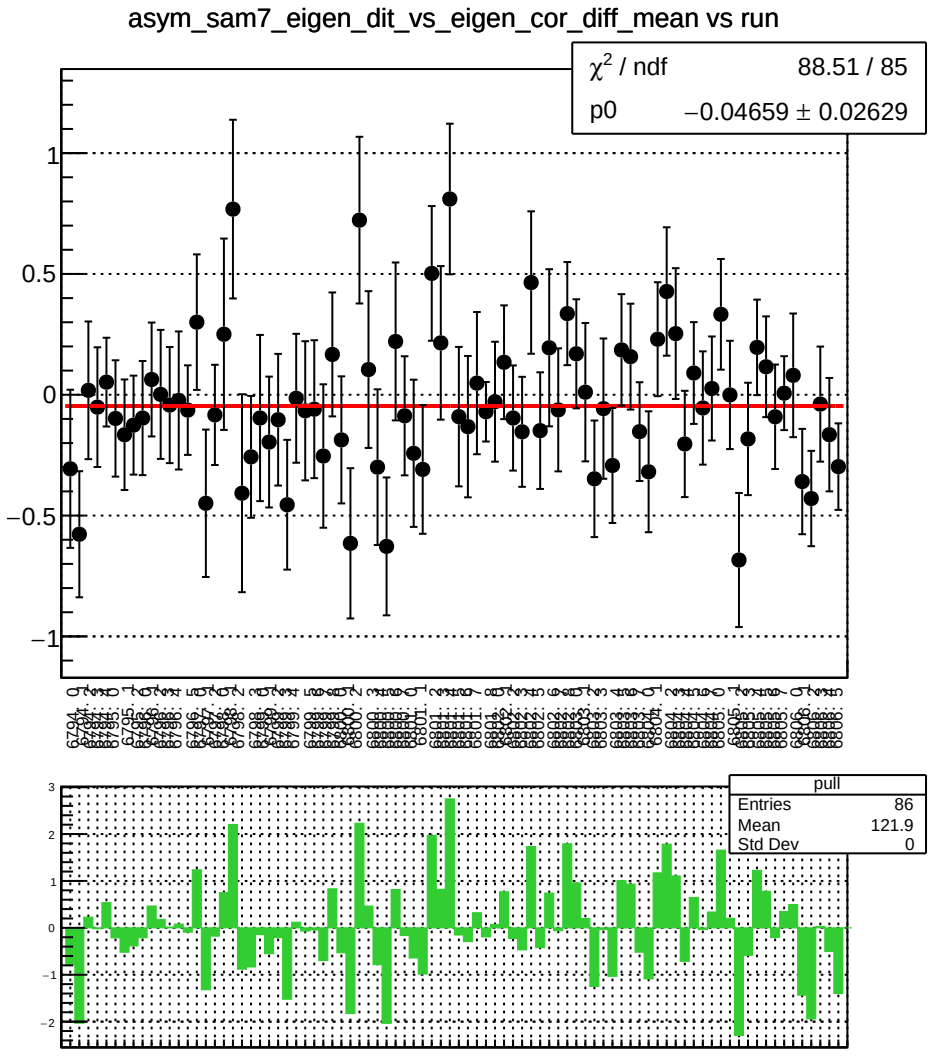

pull1D
Entries 86
Mean 0.007567
Std Dev 0.9948

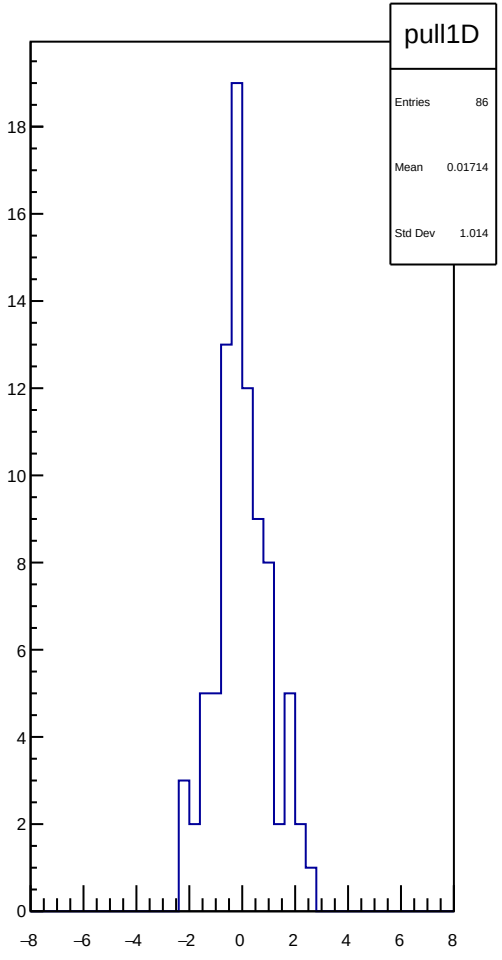

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6343 / 85
p0 0.001909 ± 1.475e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017

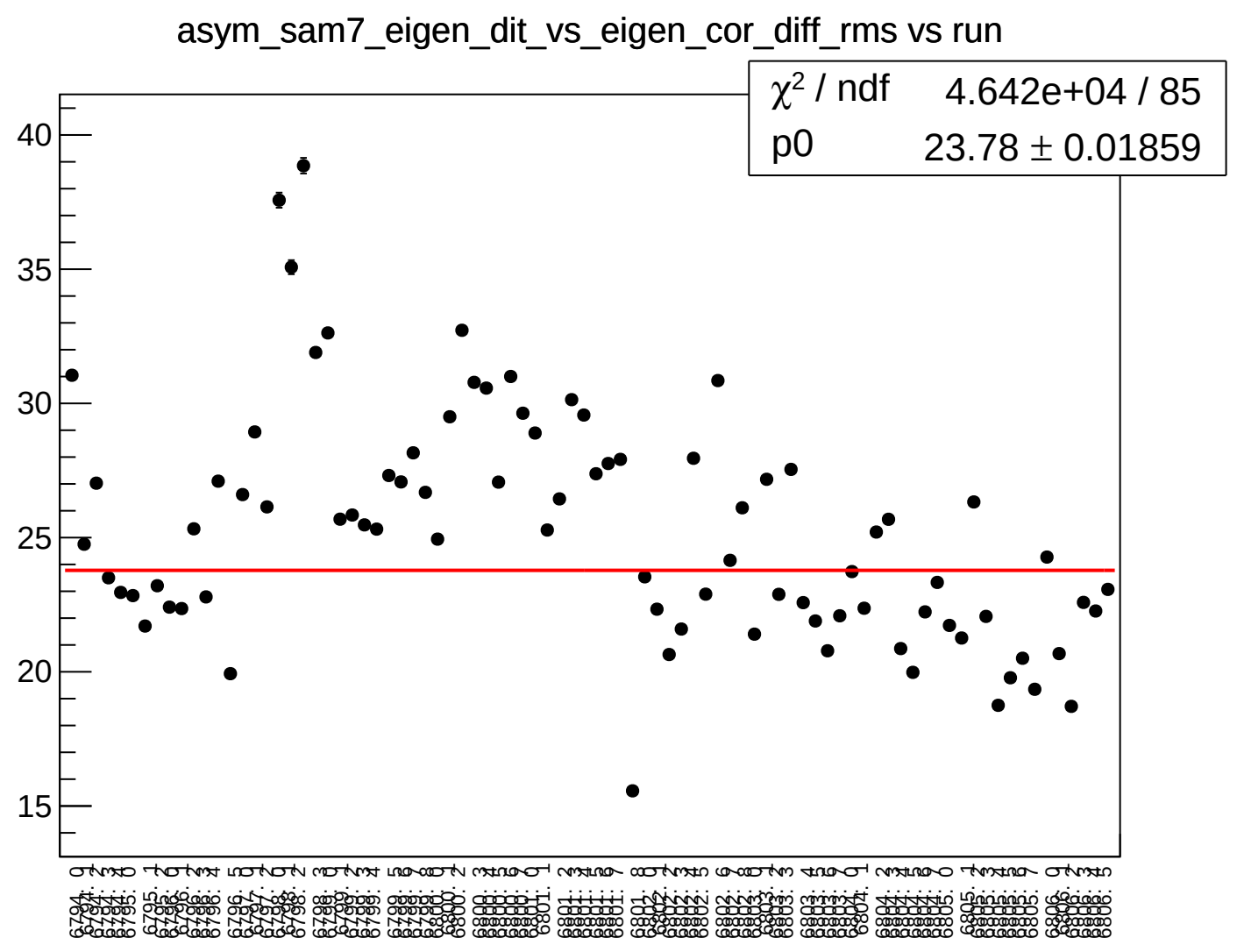

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.51 / 85
p0 −0.04659 ± 0.02629
pull
Entries 86
Mean 121.9
Std Dev 0

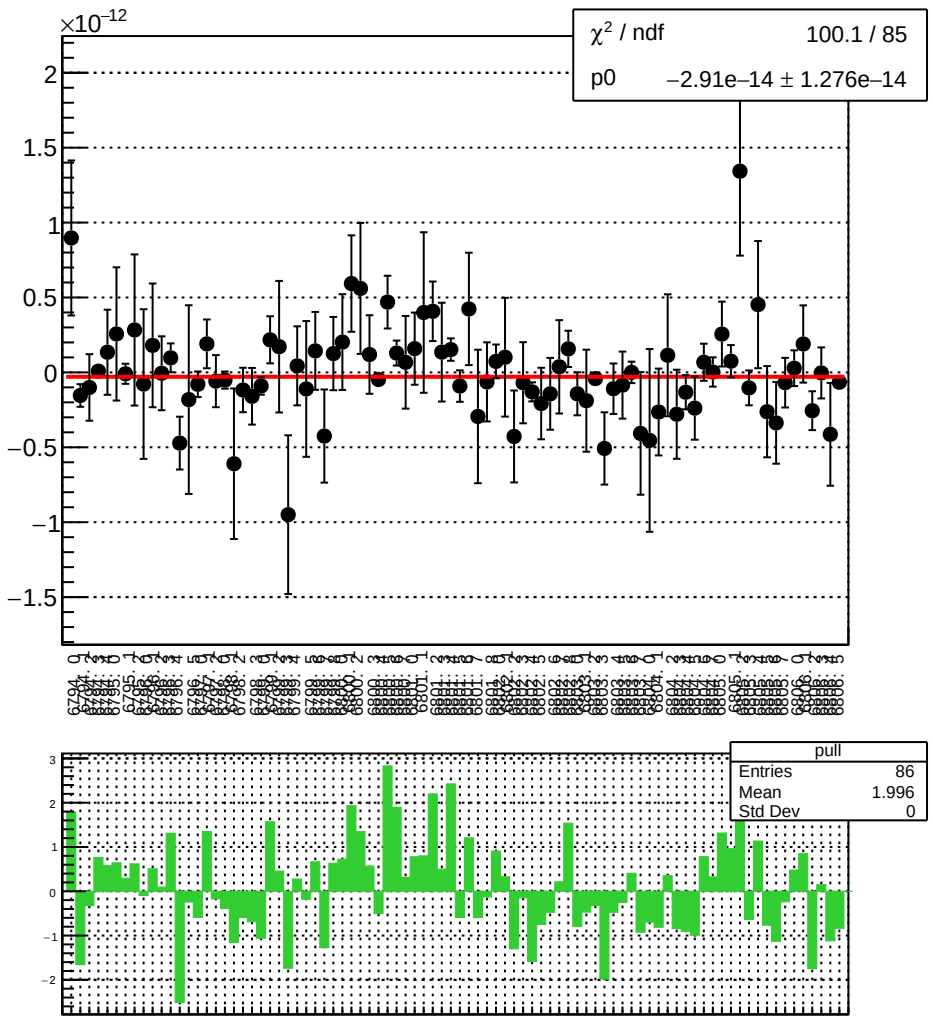

pull1D
Entries 86
Mean 0.01714
Std Dev 1.014

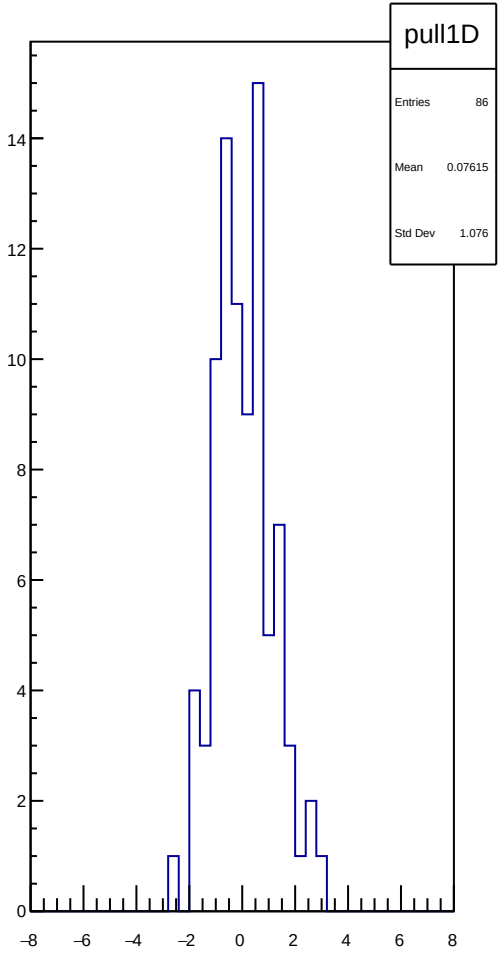

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 85
p0 23.78 ± 0.01859
40
35
30
25
20
15

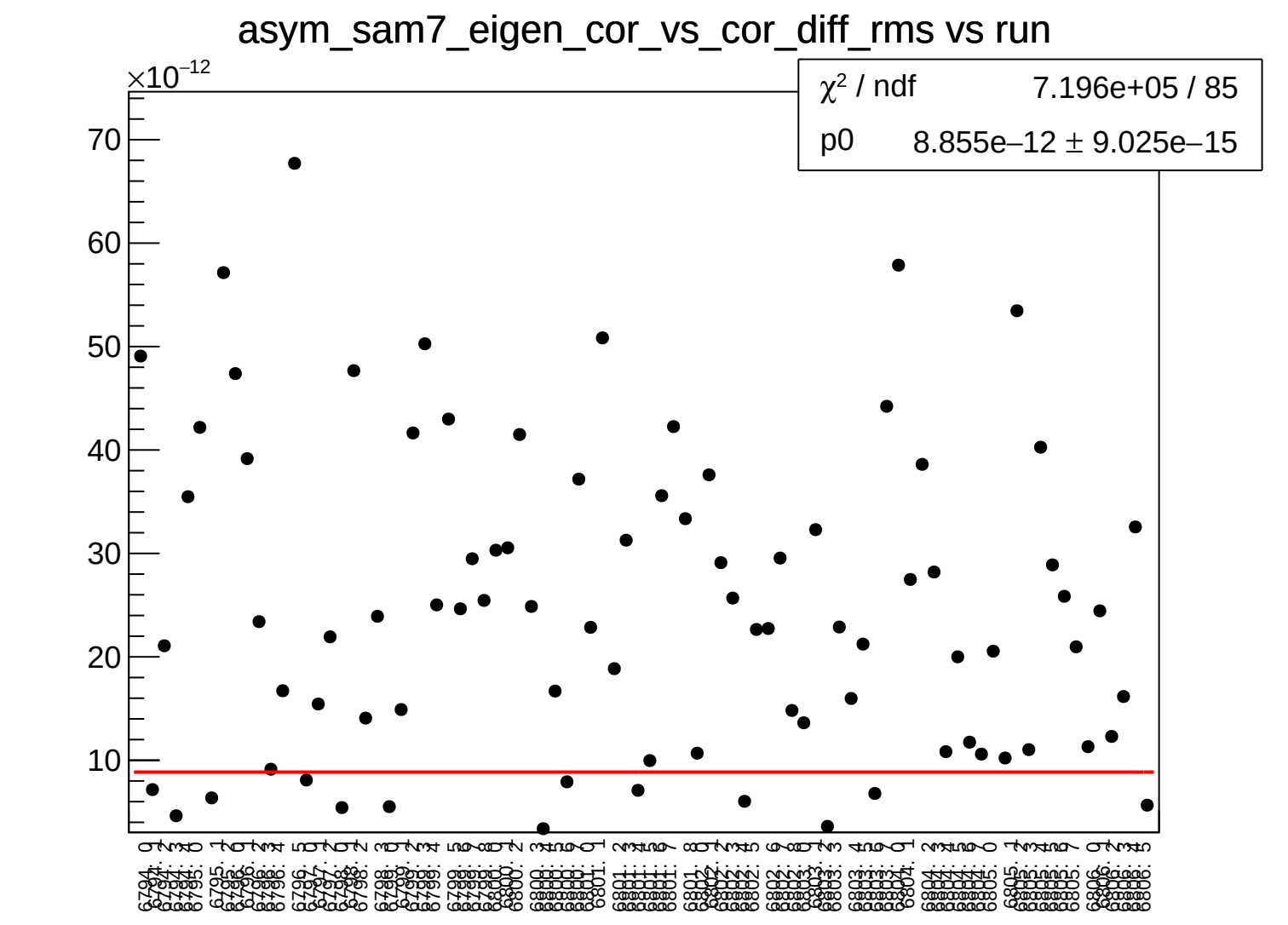

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.51 / 85
p0 −0.04659 ± 0.02629
pull
Entries 86
Mean 121.9
Std Dev 0

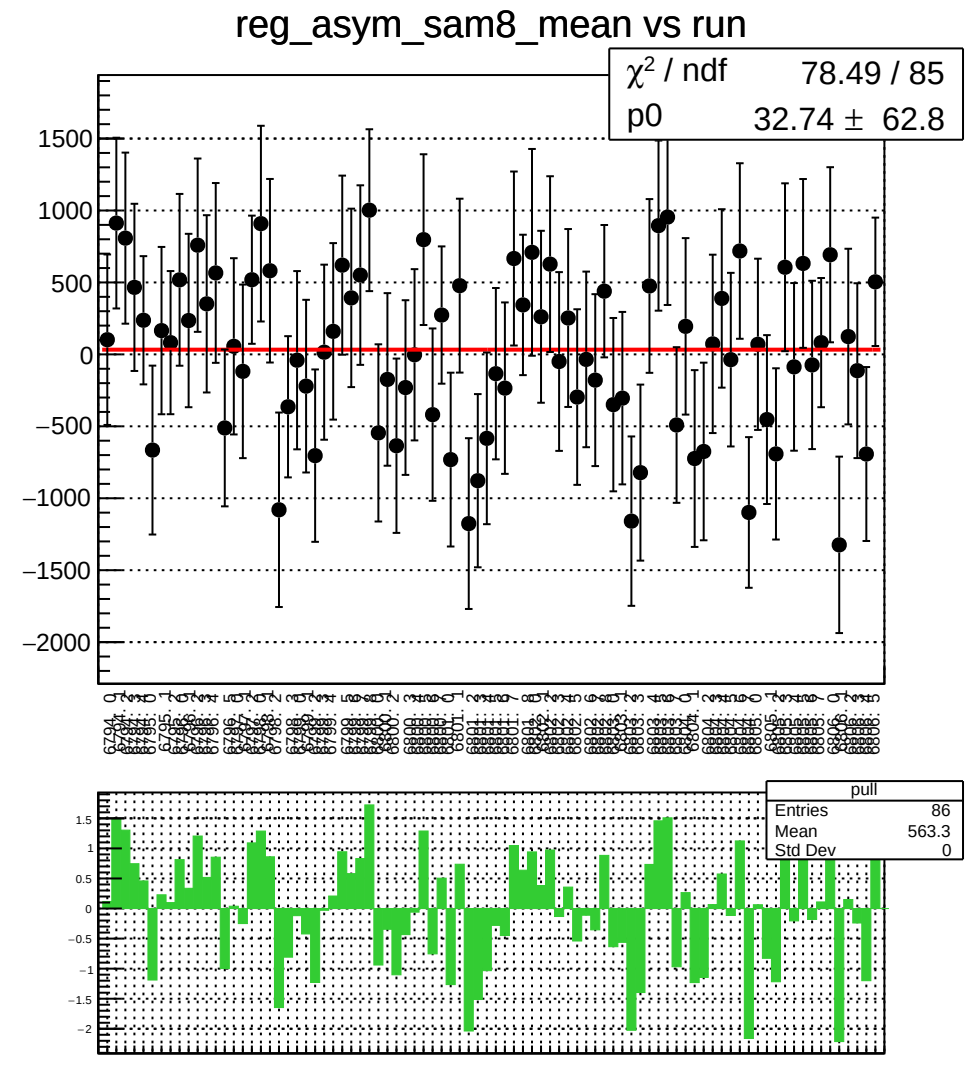

pull1D
Entries 86
Mean 0.01714
Std Dev 1.014

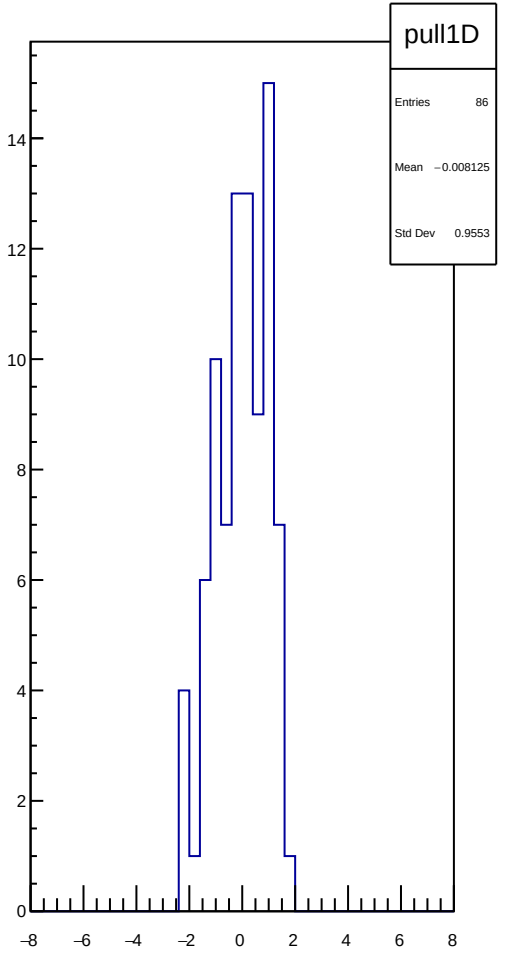

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.642e+04 / 85
p0 23.78 ± 0.01859
40
35
30
25
20
15

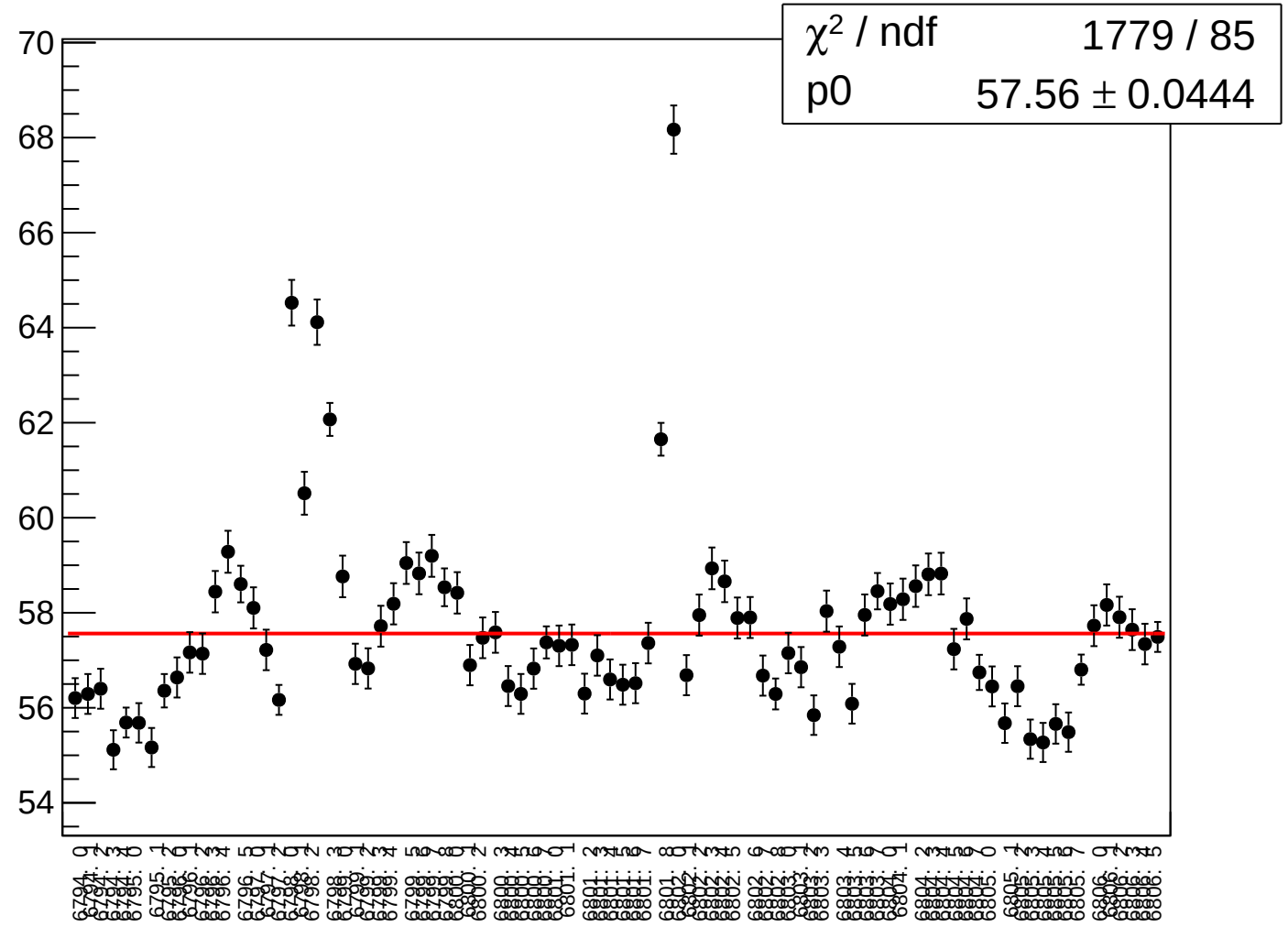

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 100.1 / 85
p0 −2.91e−14 ± 1.276e−14
pull
Entries 86
Mean 1.996
Std Dev 0

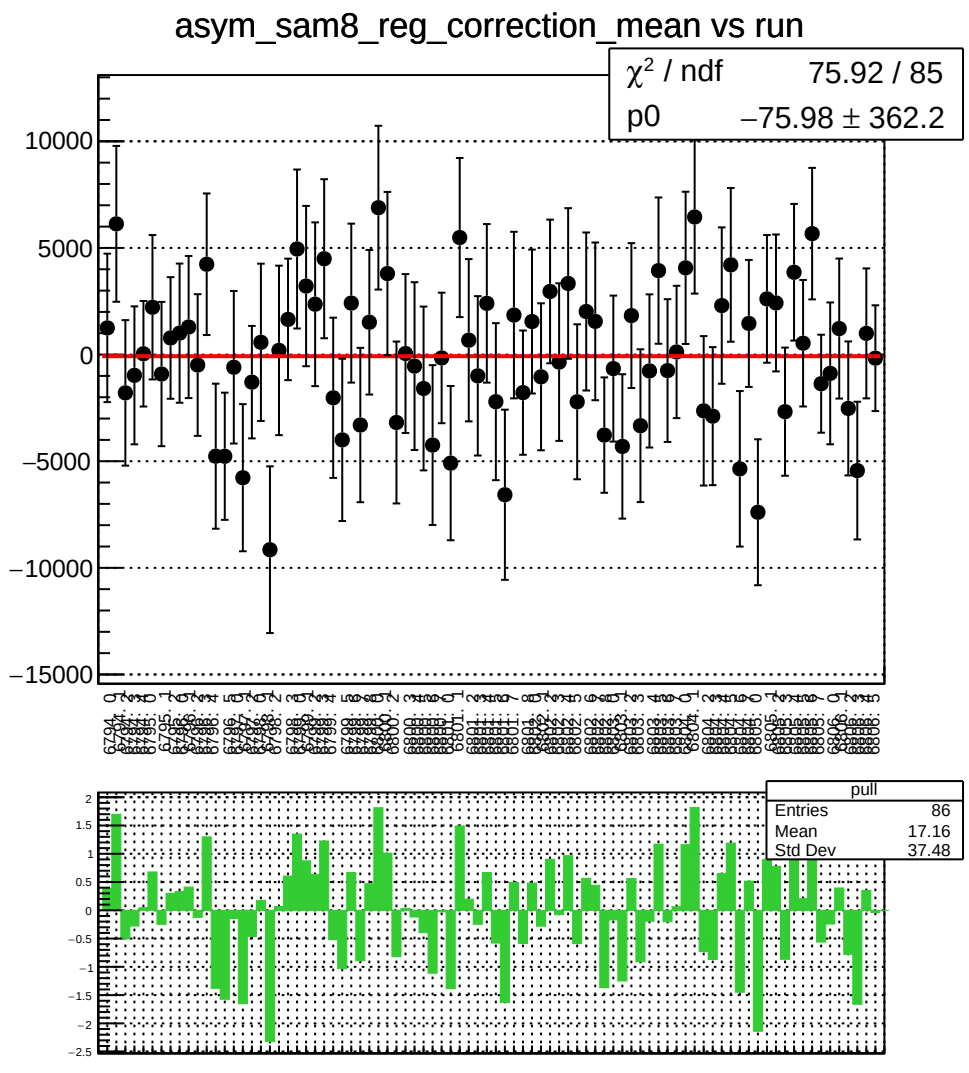

pull1D
Entries 86
Mean 0.07615
Std Dev 1.076

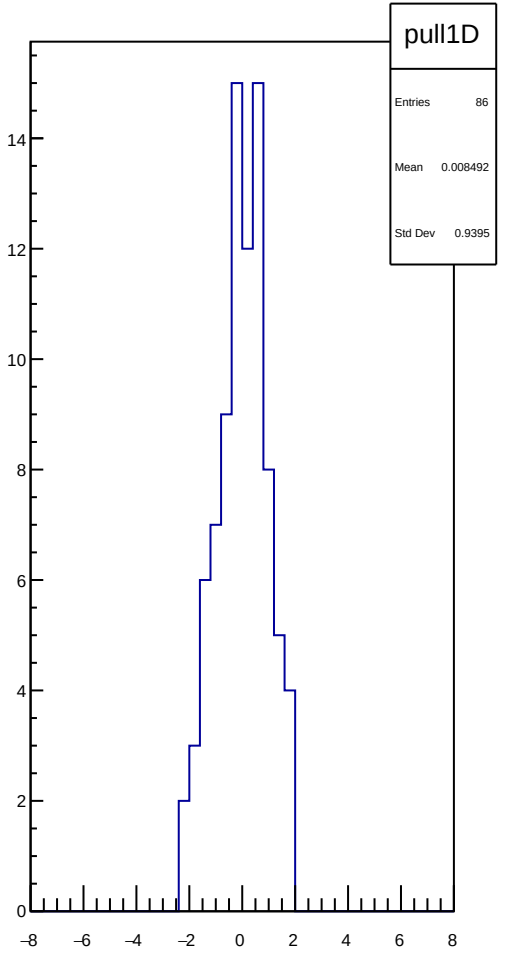

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 7.196e+05 / 85
p0 8.855e−12 ± 9.025e−15

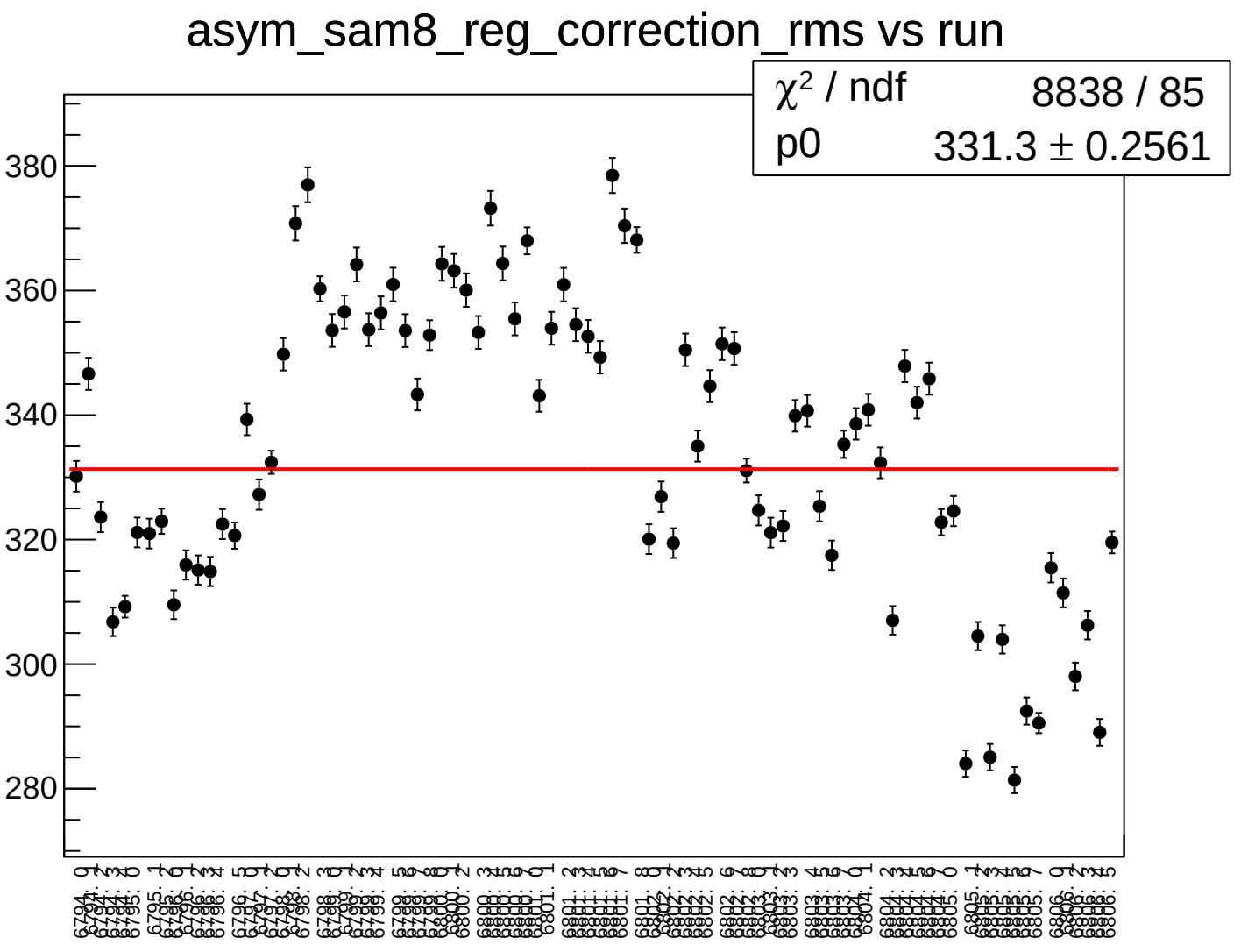

reg_asym_sam8_mean vs run
χ² / ndf 78.49 / 85
p0 32.74 ± 62.8
pull
Entries 86
Mean 563.3
Std Dev 0

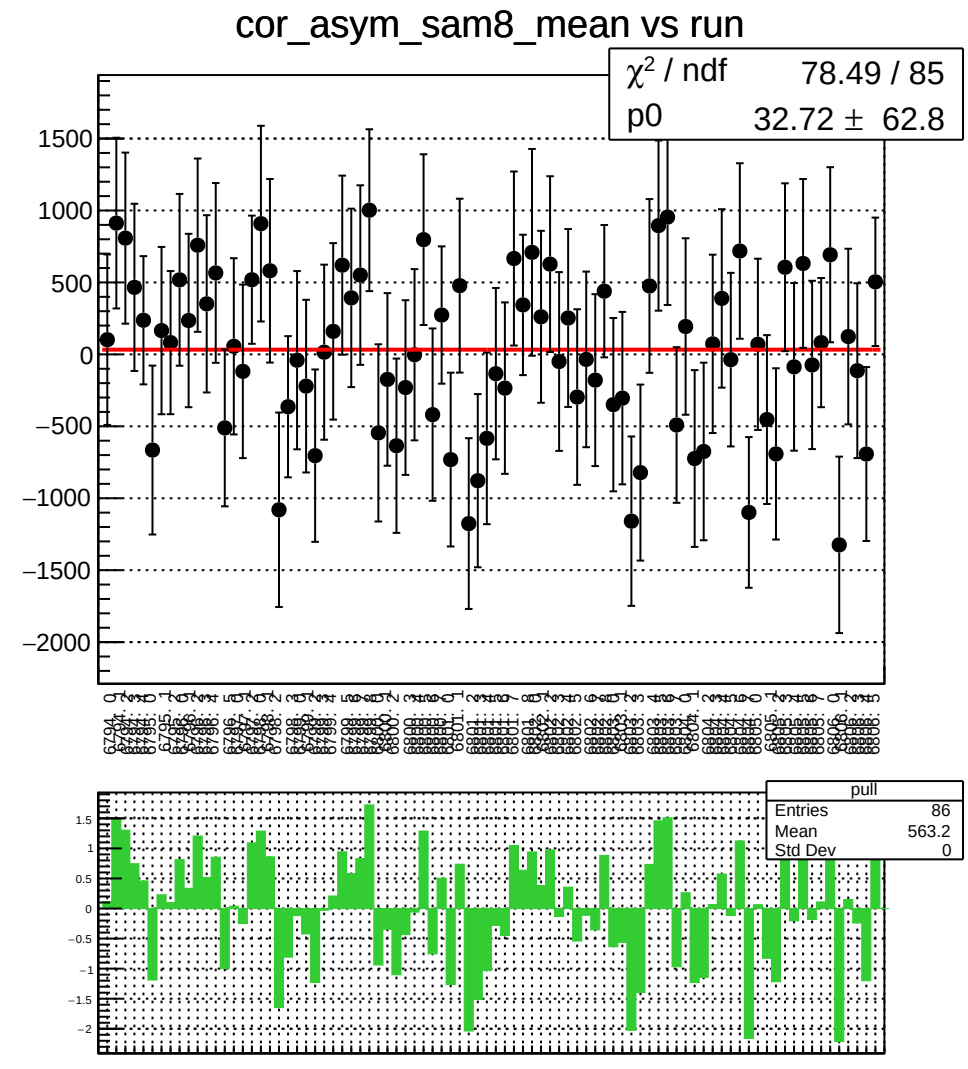

pull1D
Entries 86
Mean −0.008125
Std Dev 0.9553

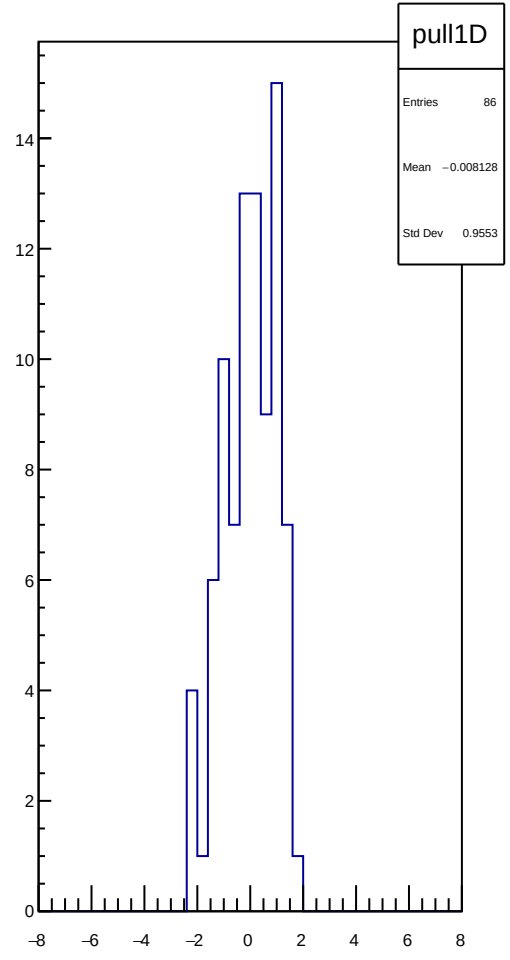

reg_asym_sam8_rms vs run
χ² / ndf 1779 / 85
p0 57.56 ± 0.0444
70
68
66
64
62
60
58
56
54

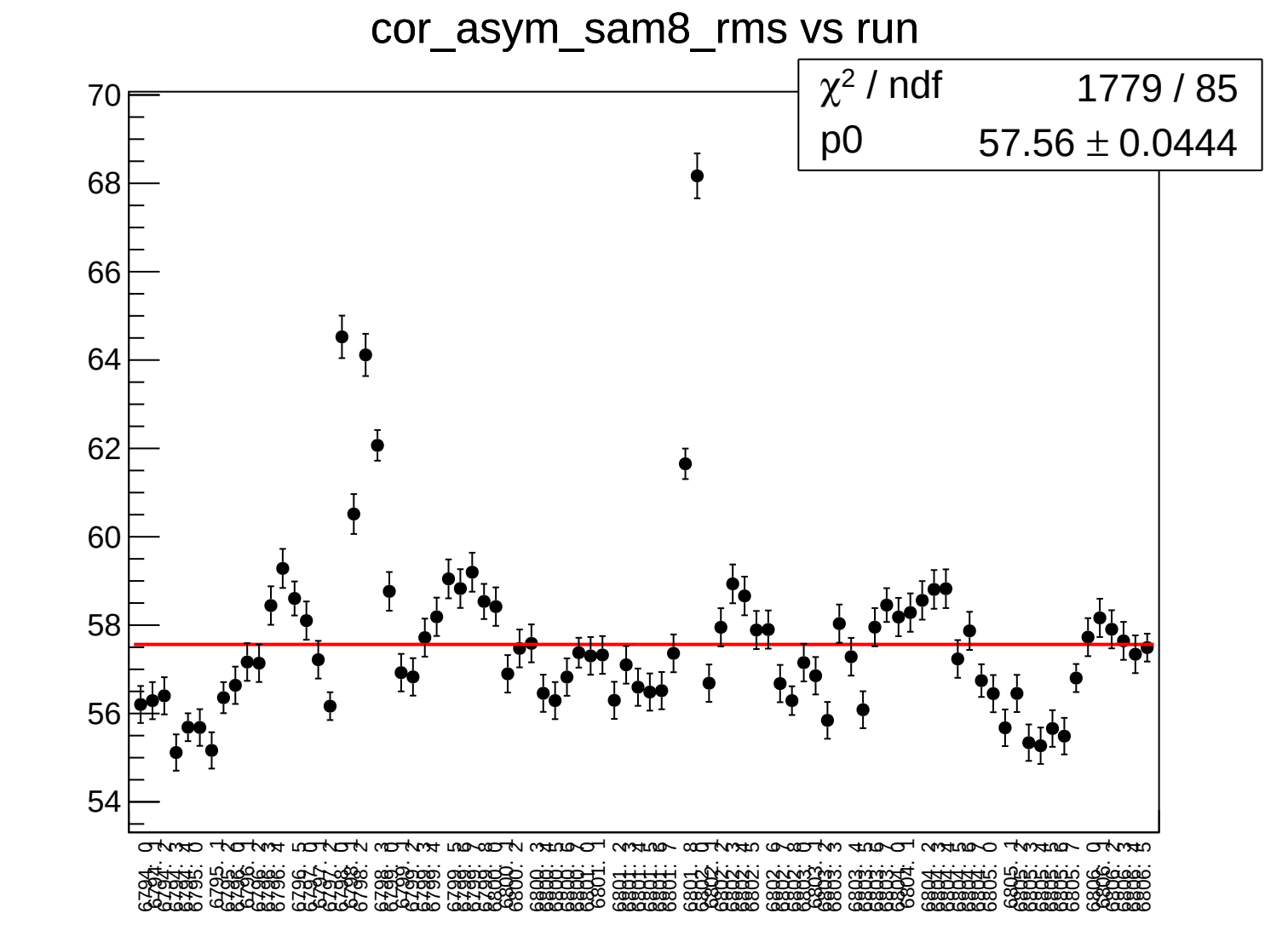

asym_sam8_reg_correction_mean vs run
χ² / ndf 75.92 / 85
p0 −75.98 ± 362.2
pull
Entries 86
Mean 17.16
Std Dev 37.48

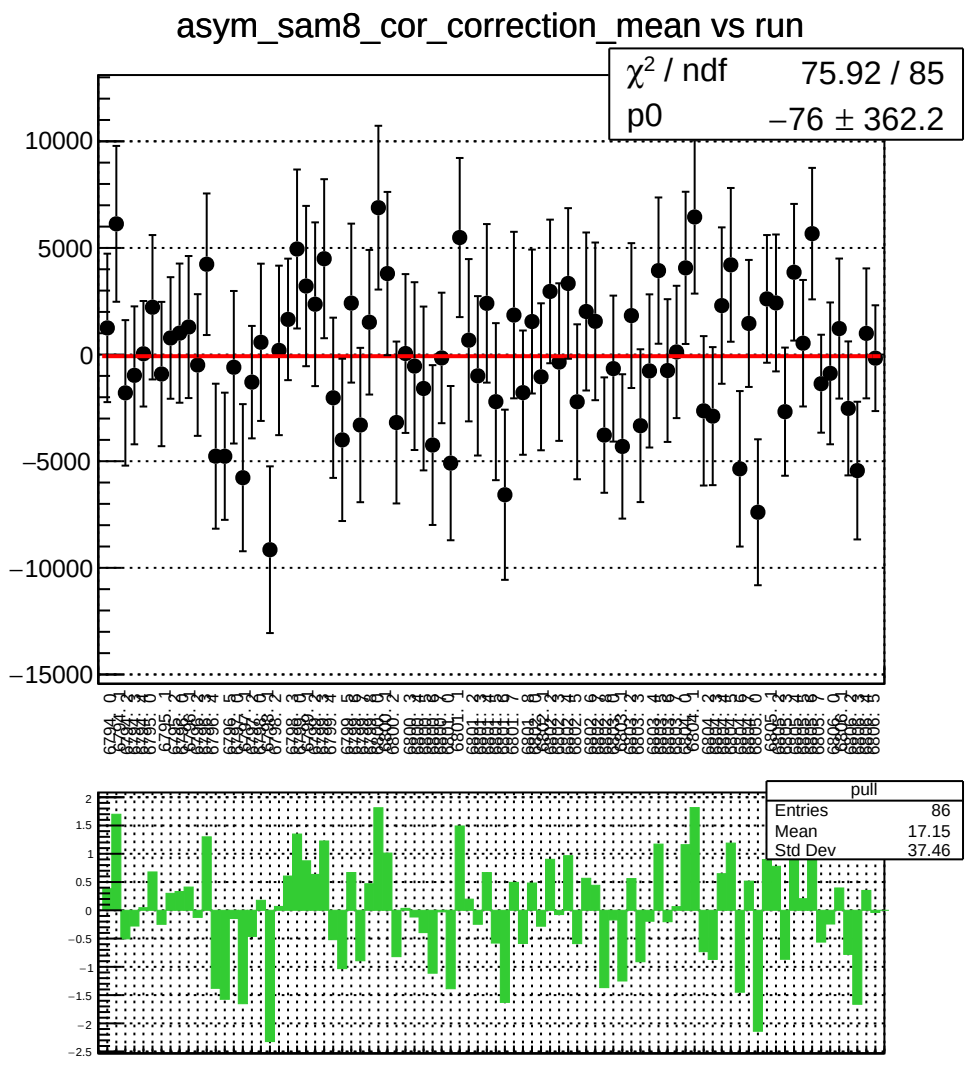

pull1D
Entries 86
Mean 0.008492
Std Dev 0.9395

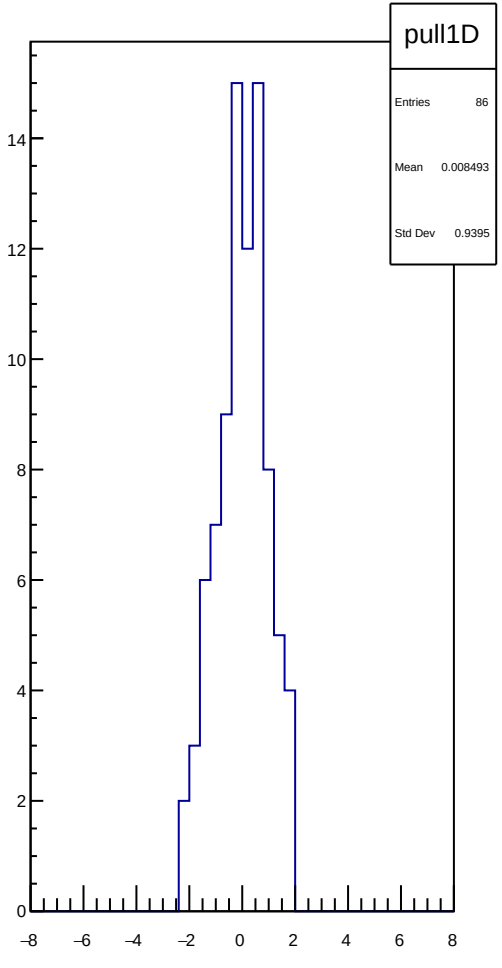

asym_sam8_reg_correction_rms vs run
χ² / ndf 8838 / 85
p0 331.3 ± 0.2561
380
360
340
320
300
280

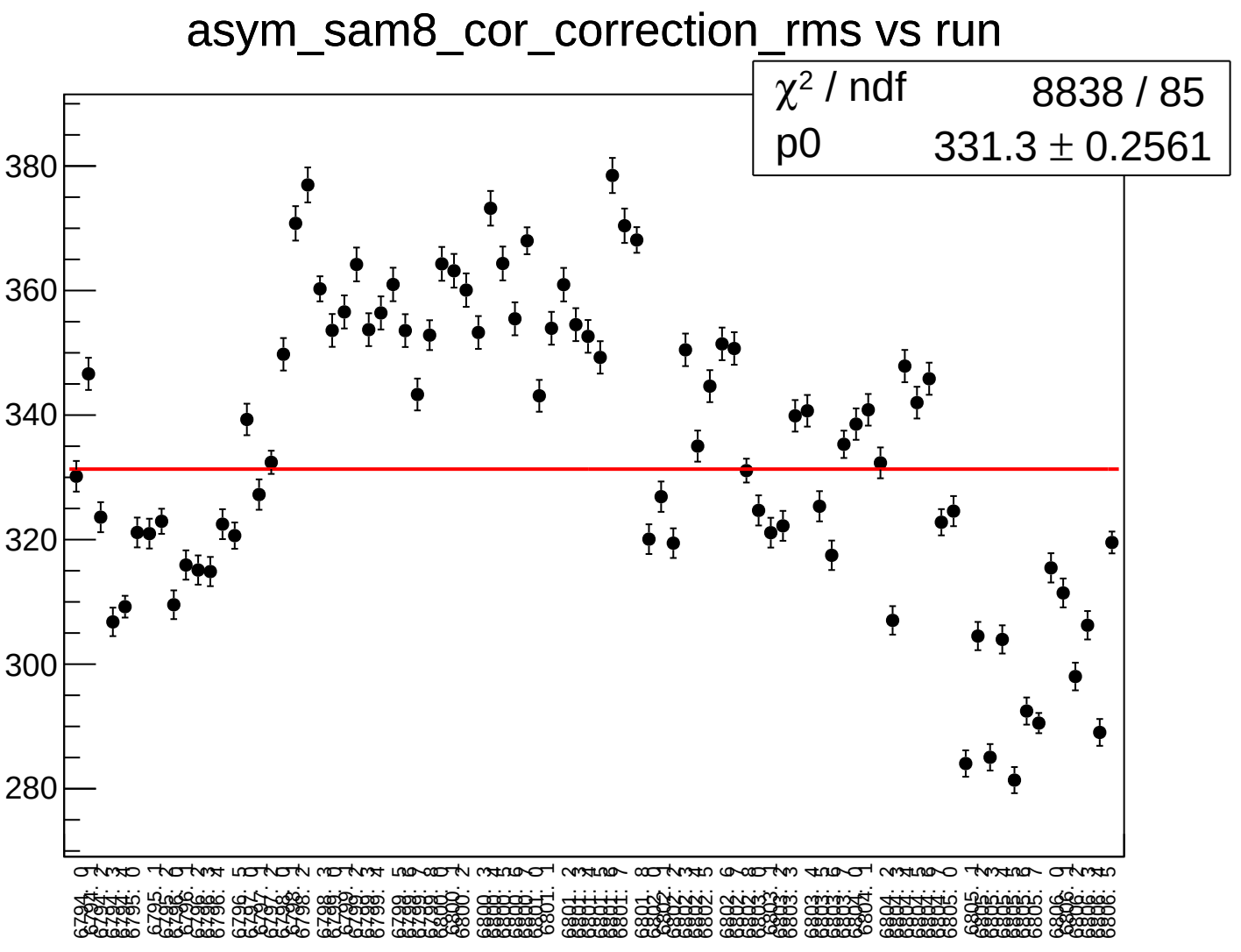

cor_asym_sam8_mean vs run
χ² / ndf 78.49 / 85
p0 32.72 ± 62.8
pull
Entries 86
Mean 563.2
Std Dev 0

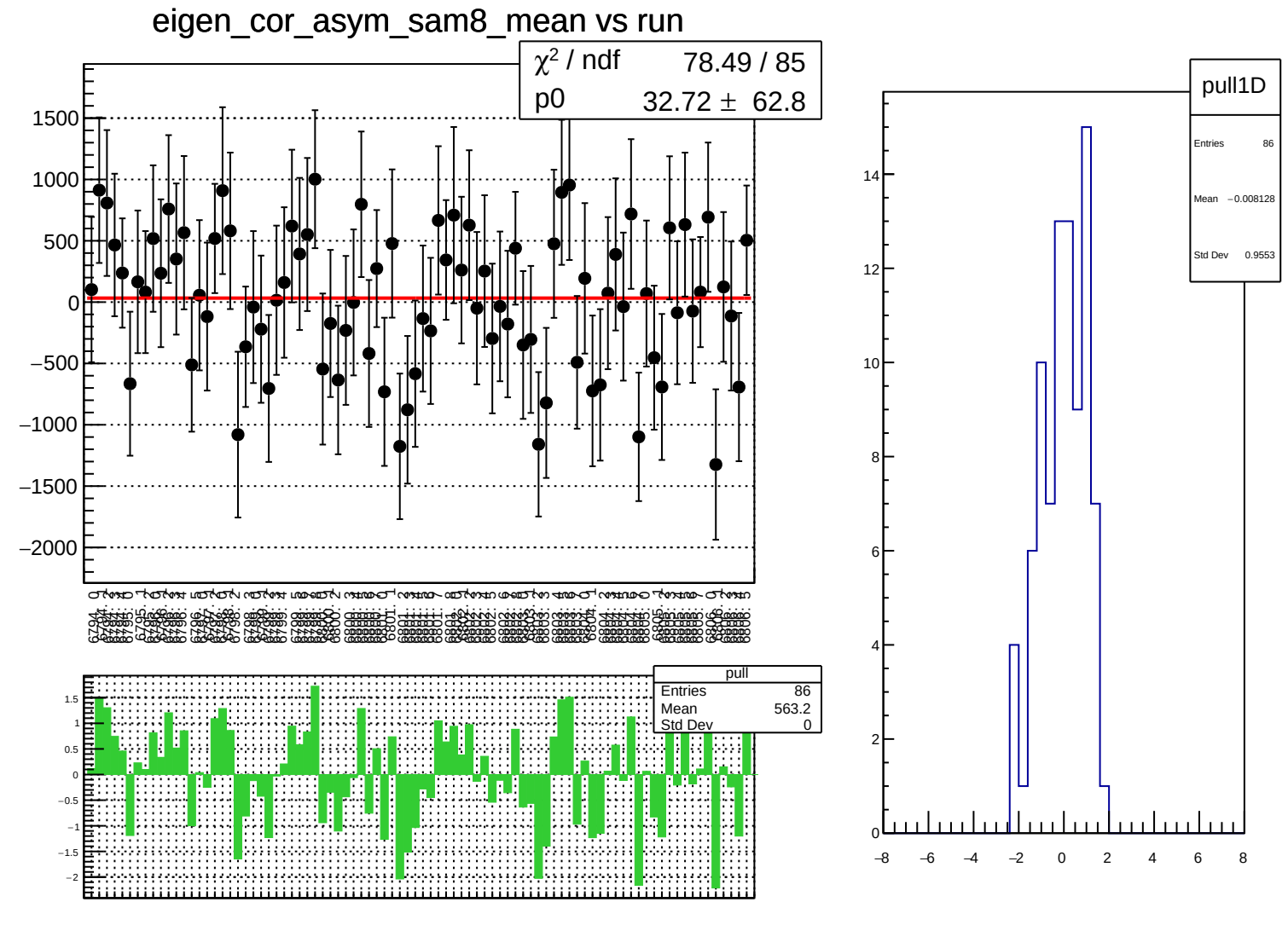

pull1D
Entries 86
Mean −0.008128
Std Dev 0.9553


cor_asym_sam8_rms vs run
χ² / ndf 1779 / 85
p0 57.56 ± 0.0444
70
68
66
64
62
60
58
56
54

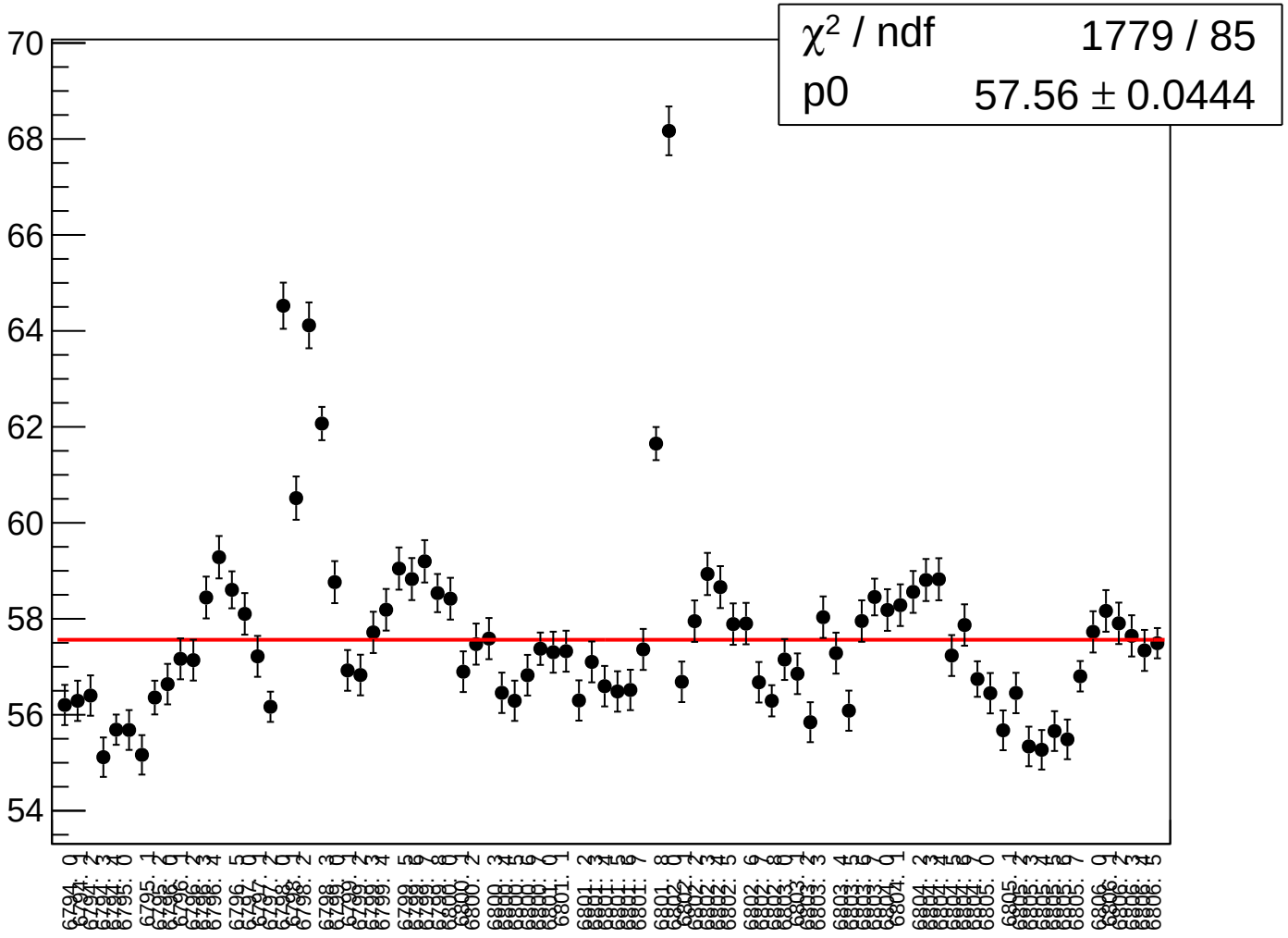

asym_sam8_cor_correction_mean vs run
χ² / ndf 75.92 / 85
p0 −76 ± 362.2
pull
Entries 86
Mean 17.15
Std Dev 37.46

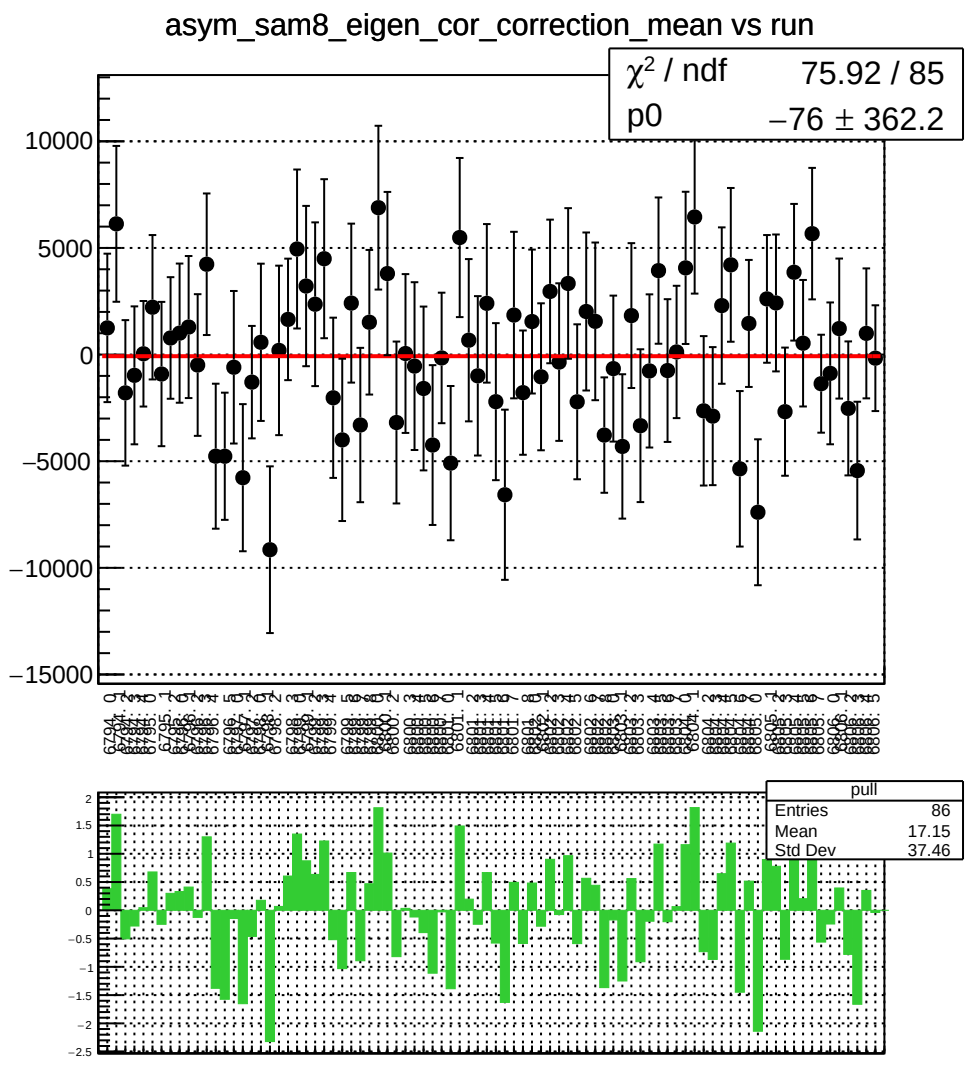

pull1D
Entries 86
Mean 0.008493
Std Dev 0.9395

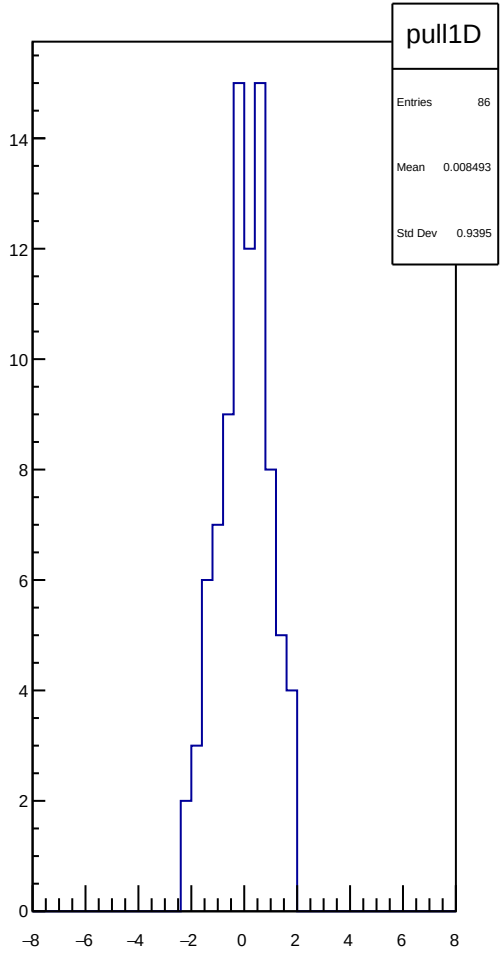

asym_sam8_cor_correction_rms vs run
χ² / ndf 8838 / 85
p0 331.3 ± 0.2561
380
360
340
320
300
280

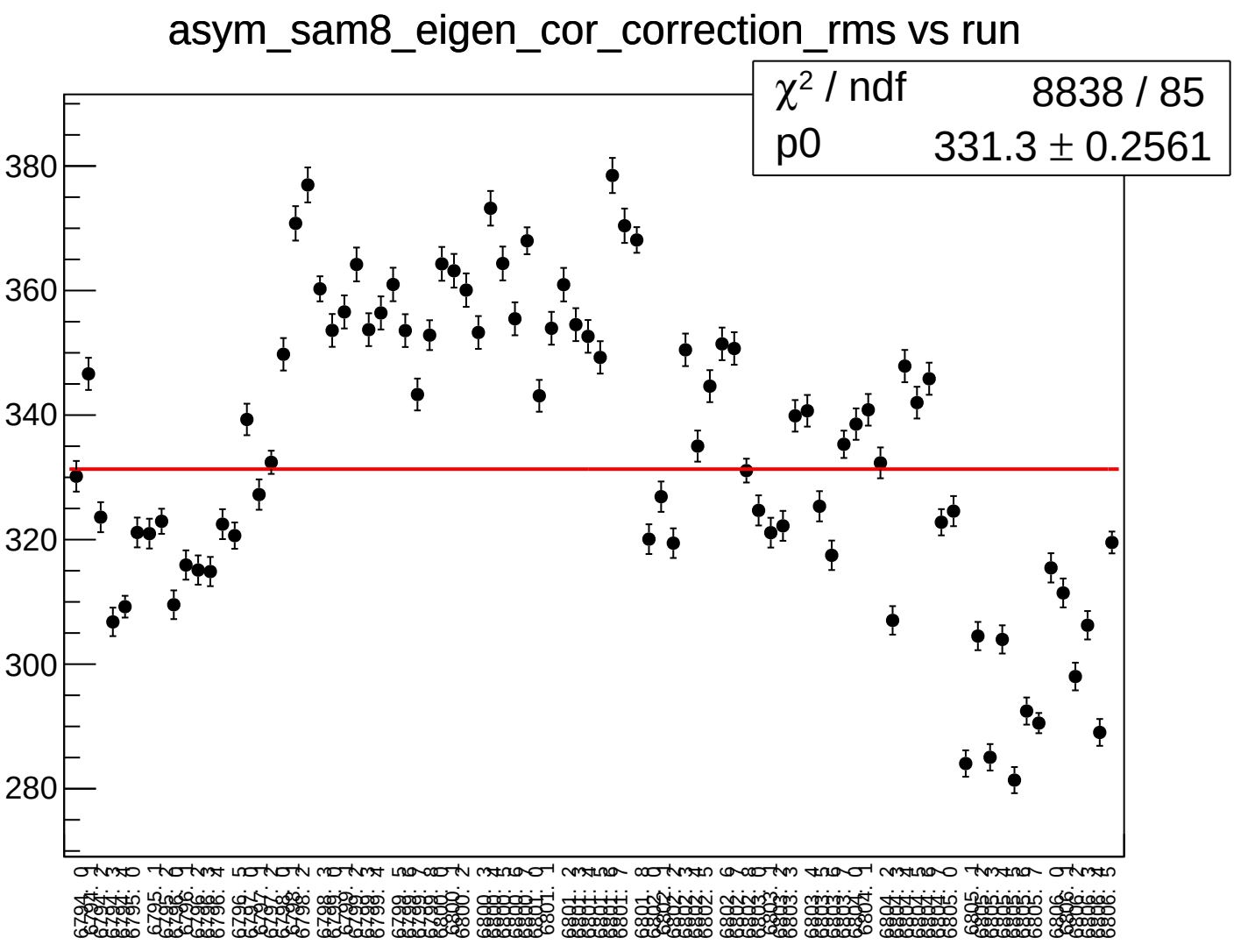

eigen_cor_asym_sam8_mean vs run
χ² / ndf 78.49 / 85
p0 32.72 ± 62.8
pull
Entries 86
Mean 563.2
Std Dev 0
pull1D
Entries 86
Mean −0.008128
Std Dev 0.9553

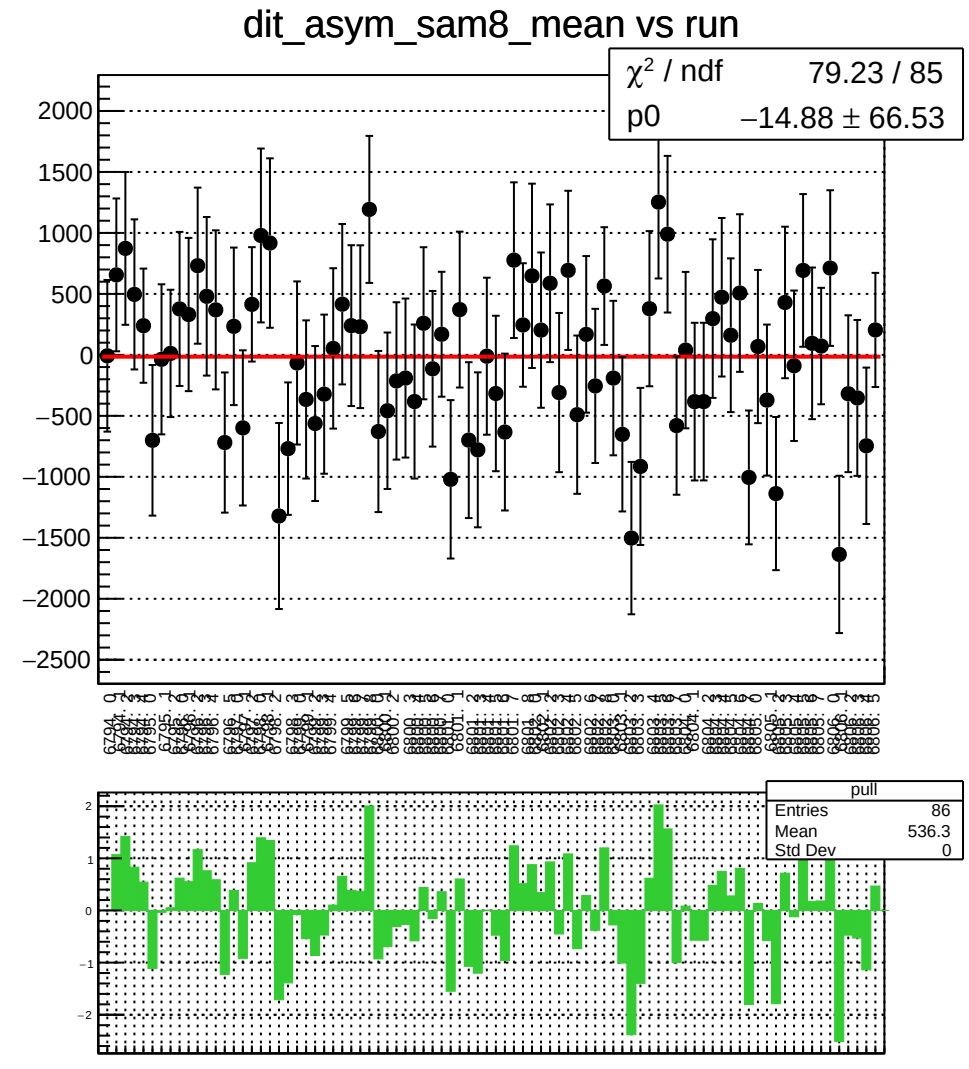
eigen_cor_asym_sam8_rms vs run

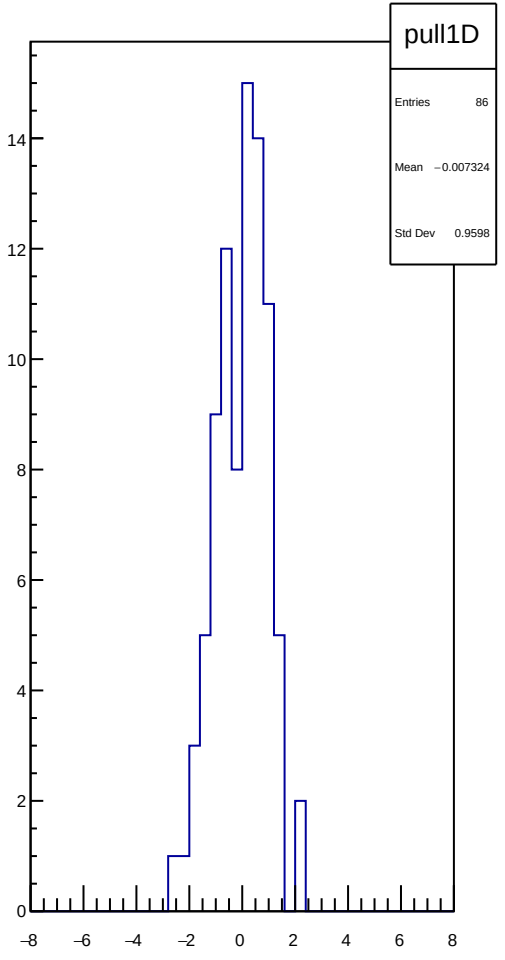


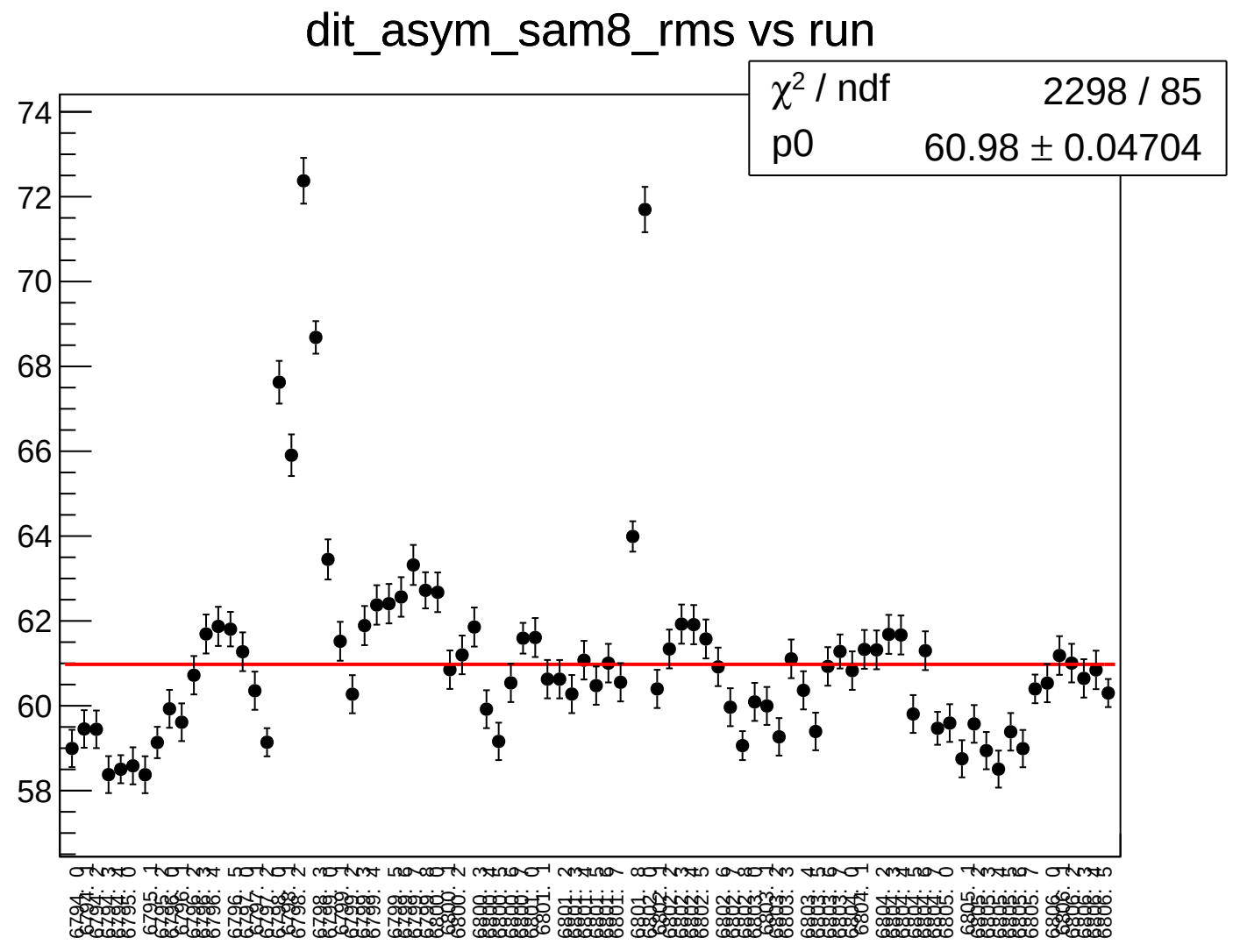

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 75.92 / 85
p0 −76 ± 362.2
pull
Entries 86
Mean 17.15
Std Dev 37.46

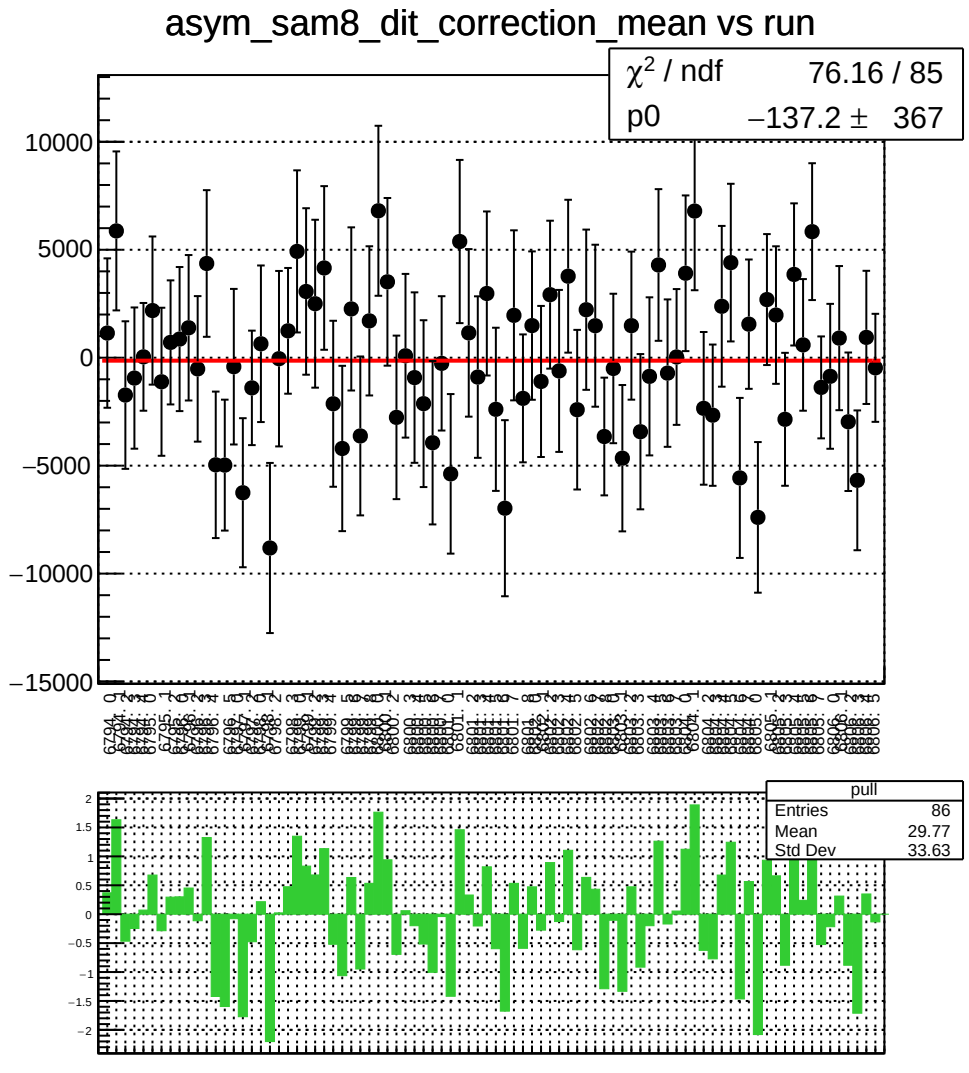

pull1D
Entries 86
Mean 0.008493
Std Dev 0.9395

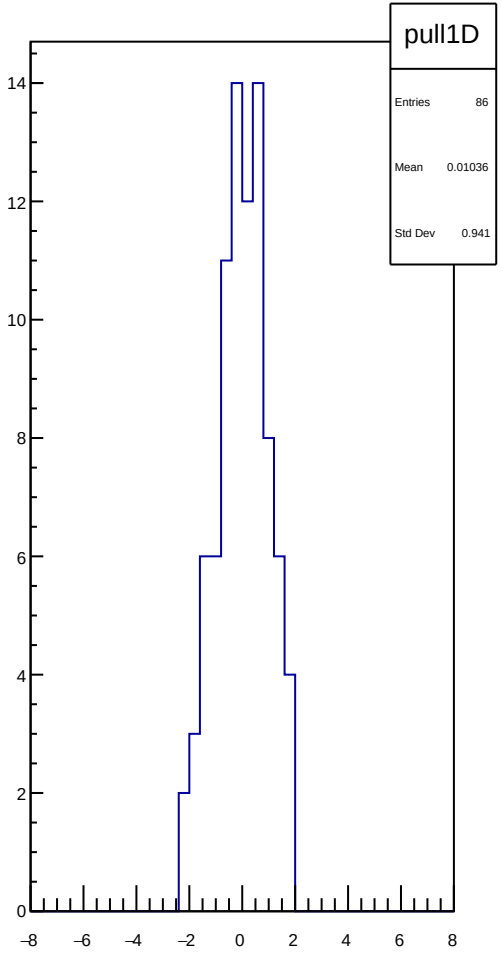

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 8838 / 85
p0 331.3 ± 0.2561
380
360
340
320
300
280

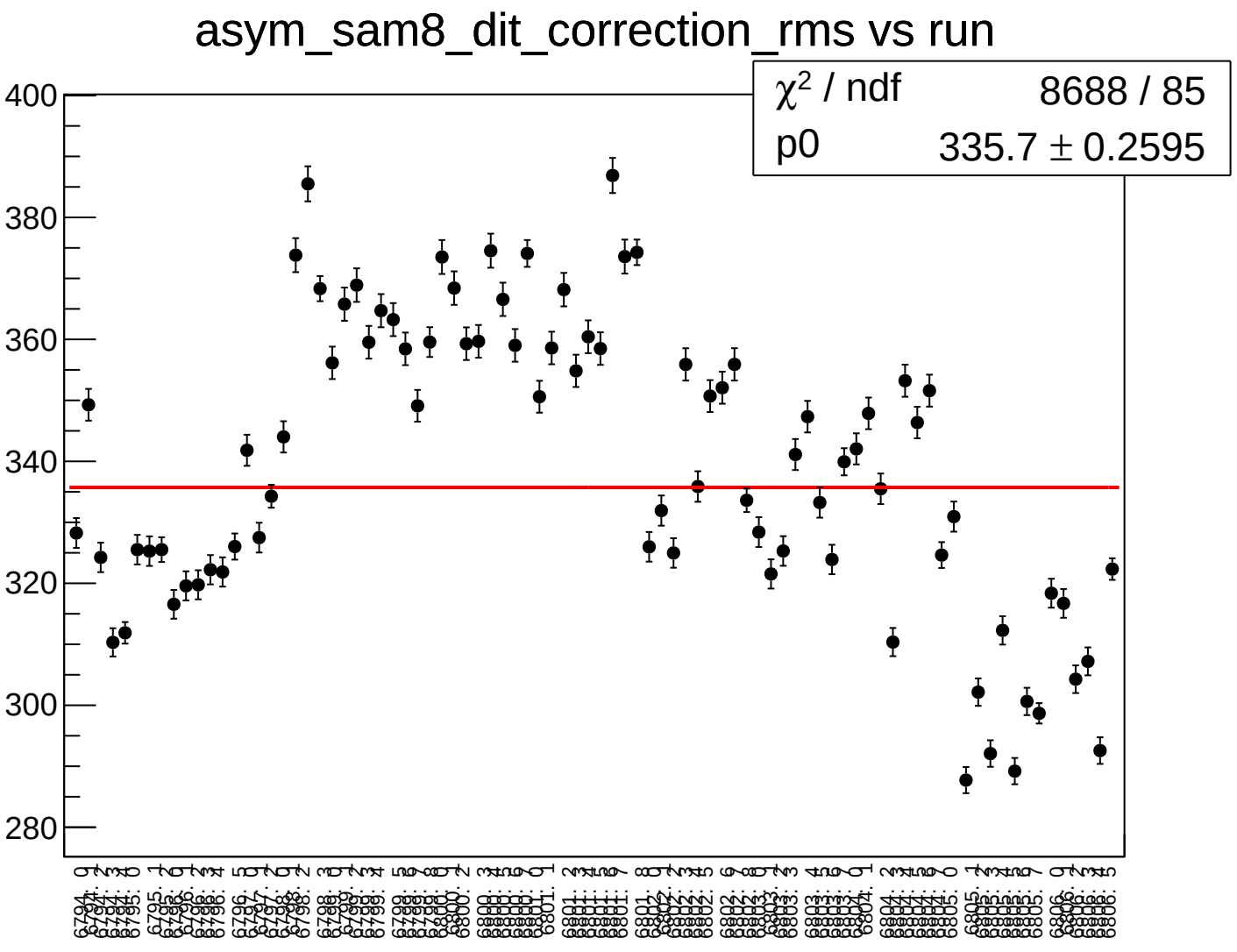

dit_asym_sam8_mean vs run
χ² / ndf 79.23 / 85
p0 −14.88 ± 66.53
pull
Entries 86
Mean 536.3
Std Dev 0

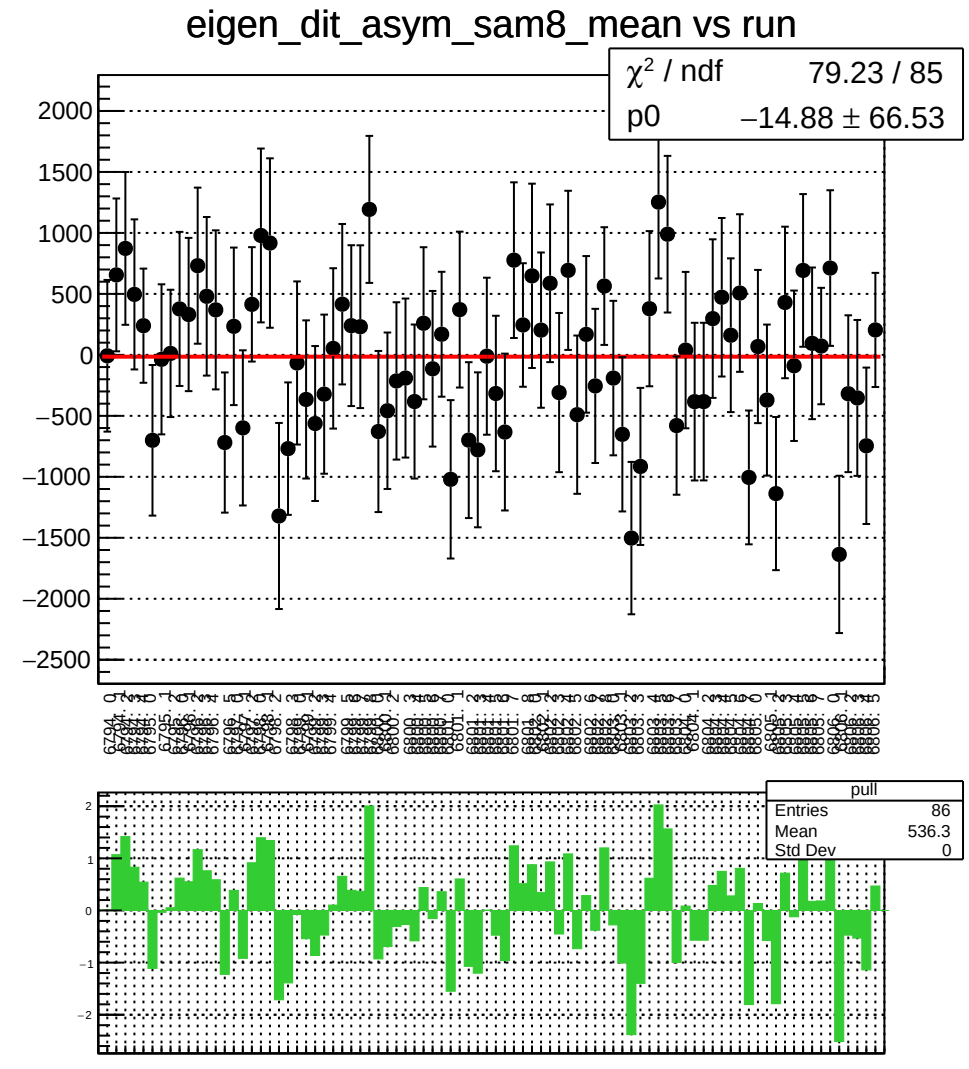

pull1D
Entries 86
Mean −0.007324
Std Dev 0.9598

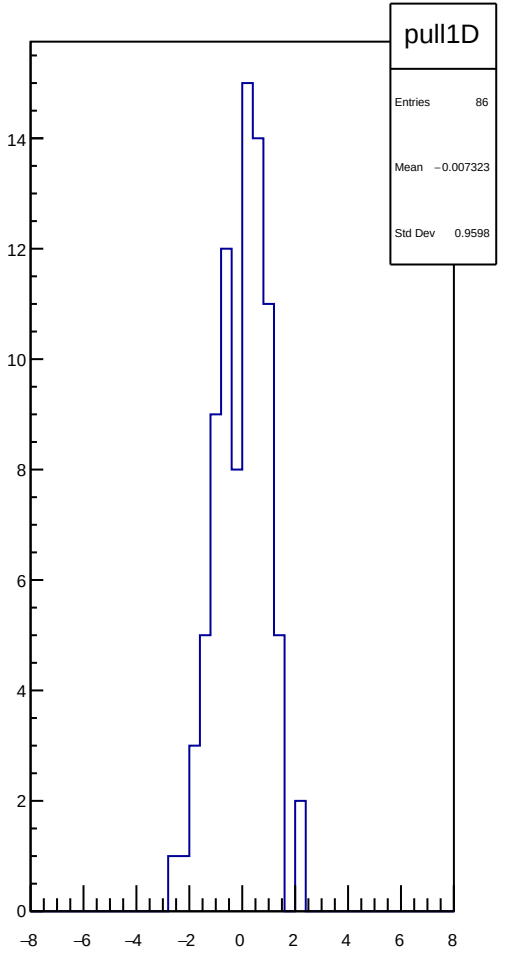

dit_asym_sam8_rms vs run
χ² / ndf 2298 / 85
p0 60.98 ± 0.04704
74
72
70
68
66
64
62
60
58

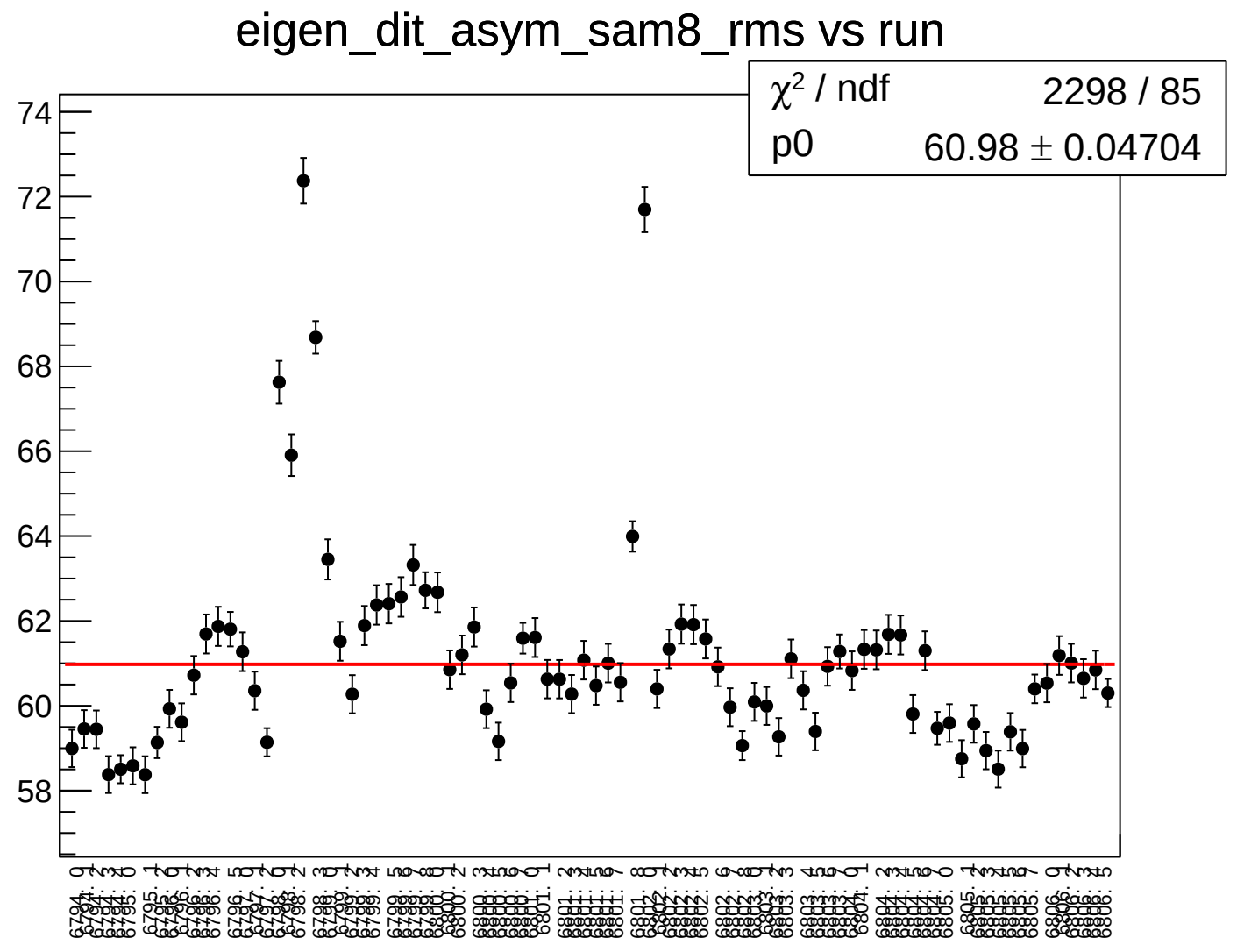

asym_sam8_dit_correction_mean vs run
χ² / ndf 76.16 / 85
p0 −137.2 ± 367
pull
Entries 86
Mean 29.77
Std Dev 33.63

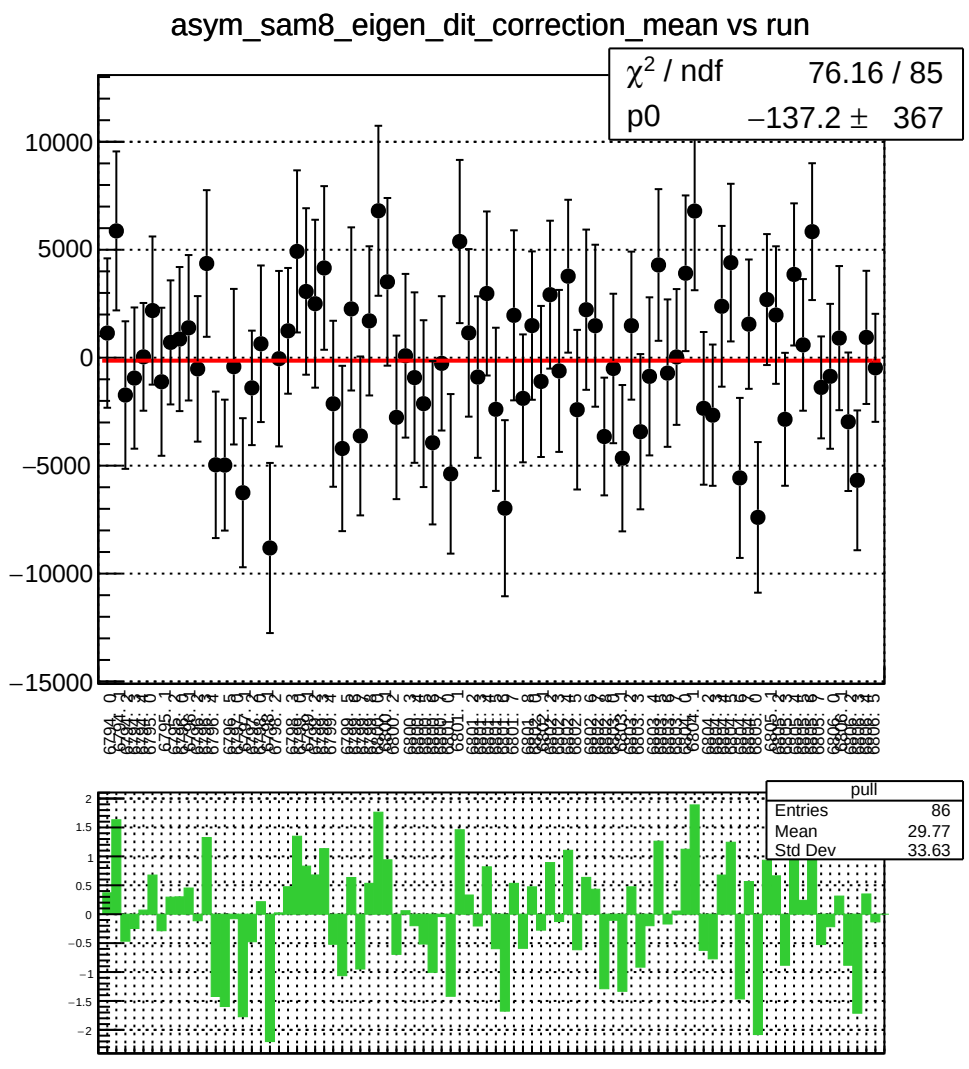

pull1D
Entries 86
Mean 0.01036
Std Dev 0.941

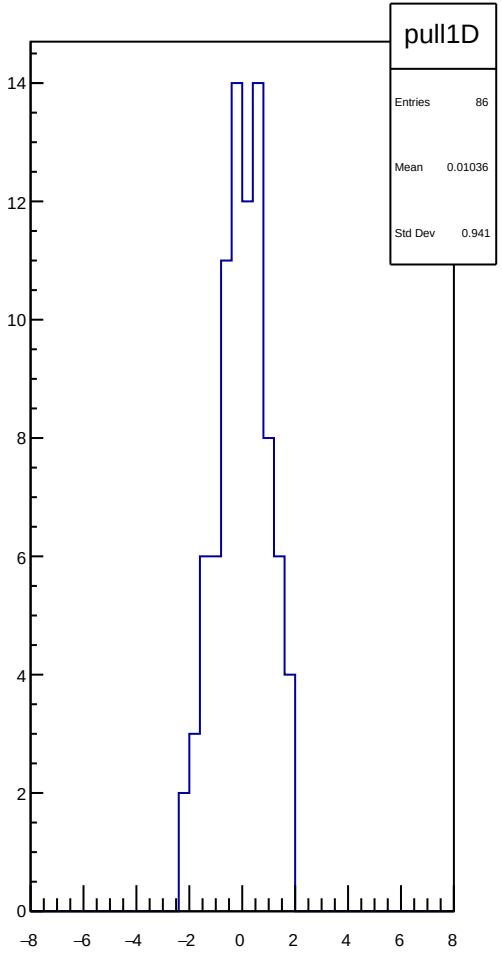

asym_sam8_dit_correction_rms vs run
χ² / ndf 8688 / 85
p0 335.7 ± 0.2595
400
380
360
340
320
300
280

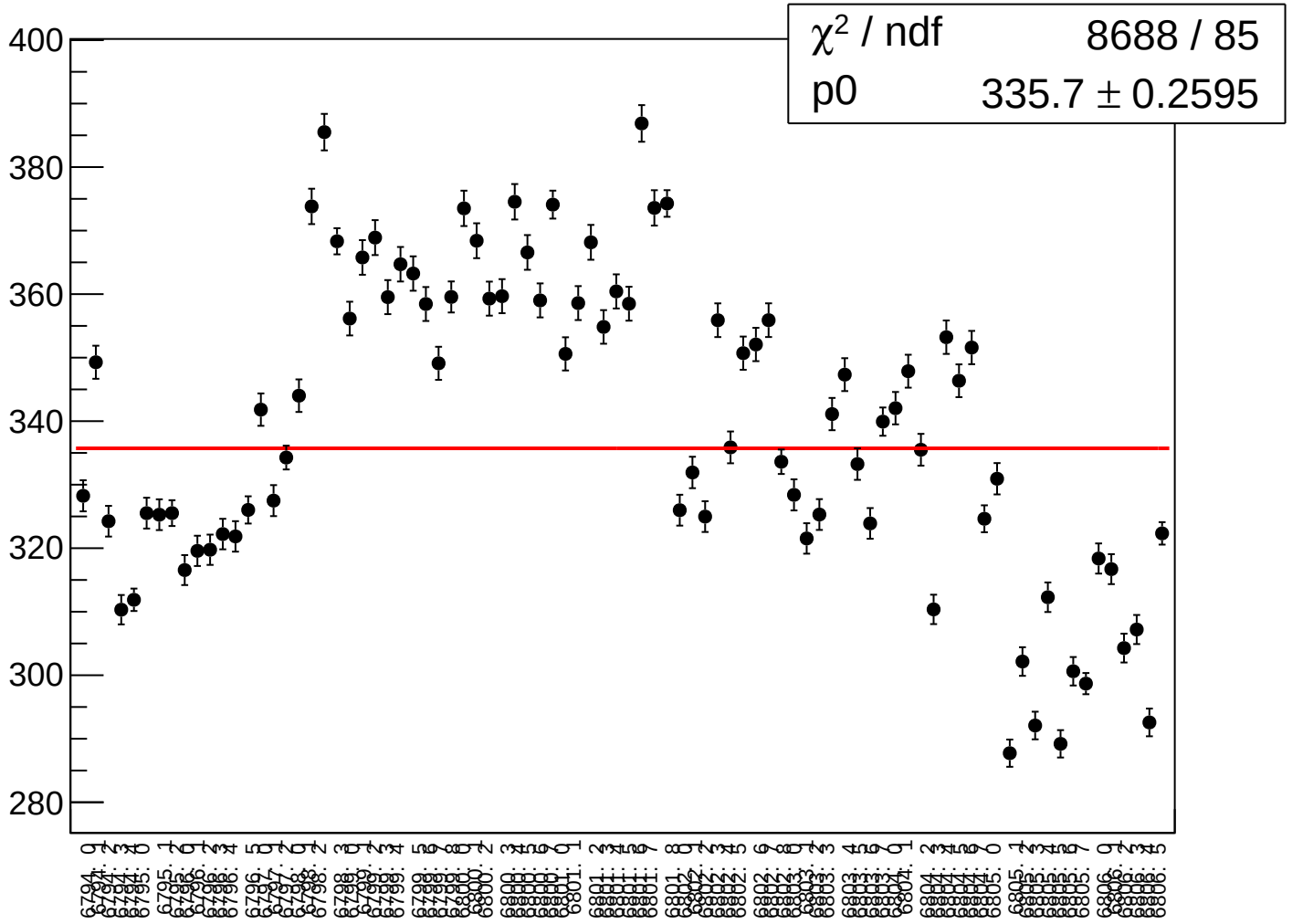

eigen_dit_asym_sam8_mean vs run
χ² / ndf 79.23 / 85
p0 −14.88 ± 66.53
pull
Entries 86
Mean 536.3
Std Dev 0

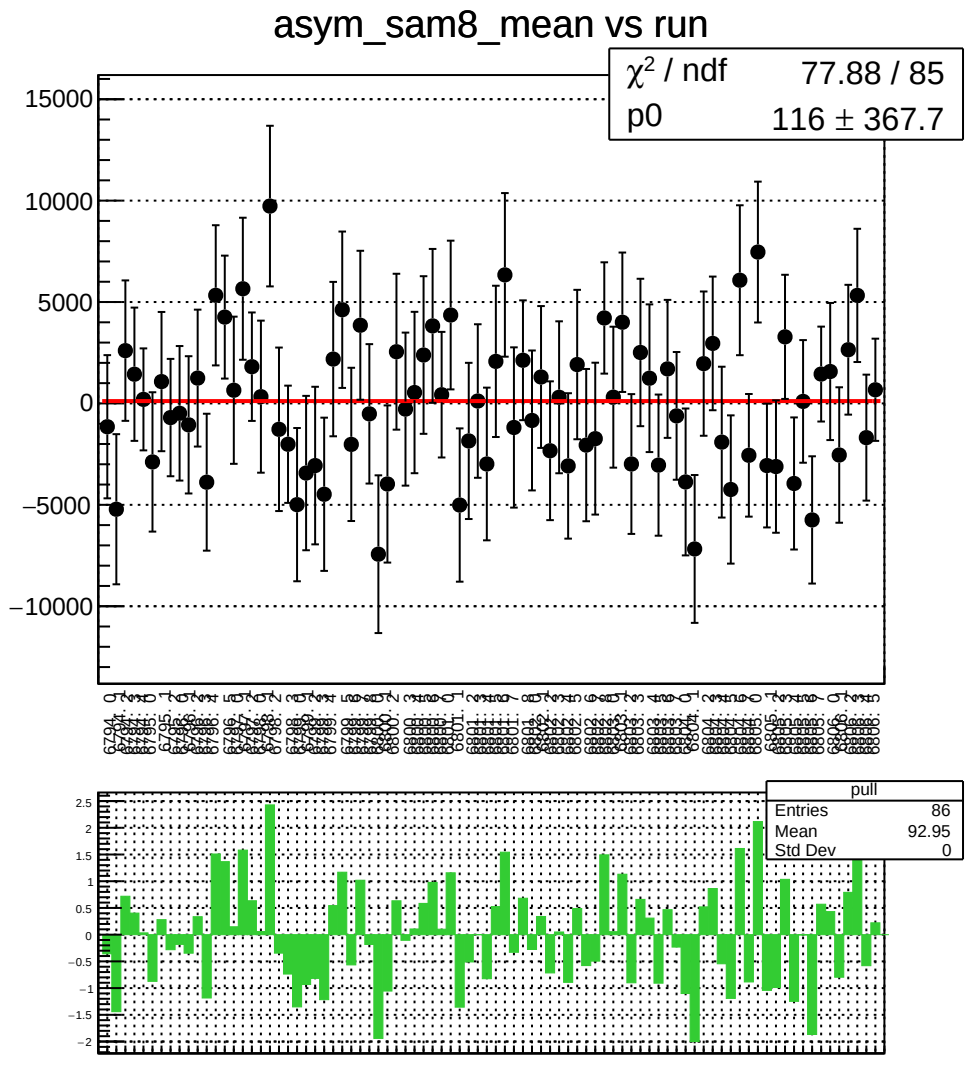

pull1D
Entries 86
Mean −0.007323
Std Dev 0.9598

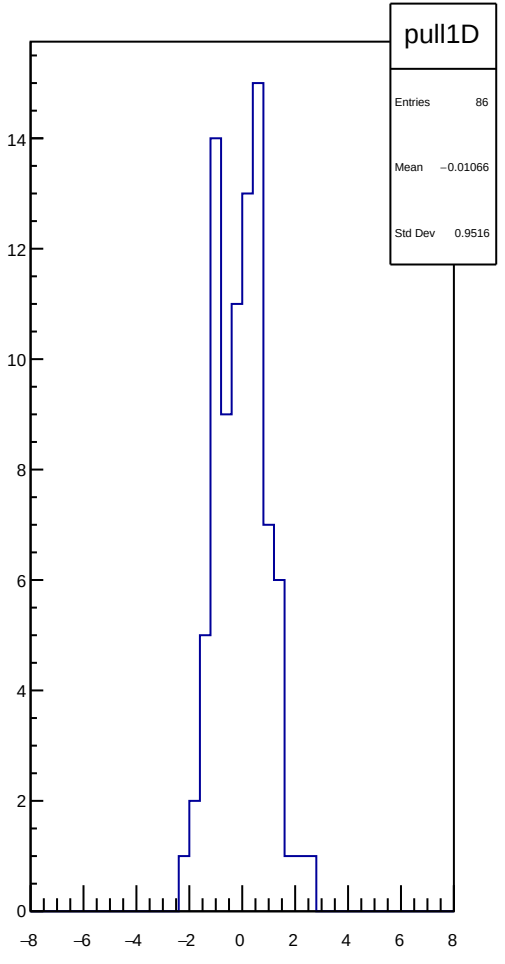

eigen_dit_asym_sam8_rms vs run
χ² / ndf 2298 / 85
p0 60.98 ± 0.04704
74
72
70
68
66
64
62
60
58

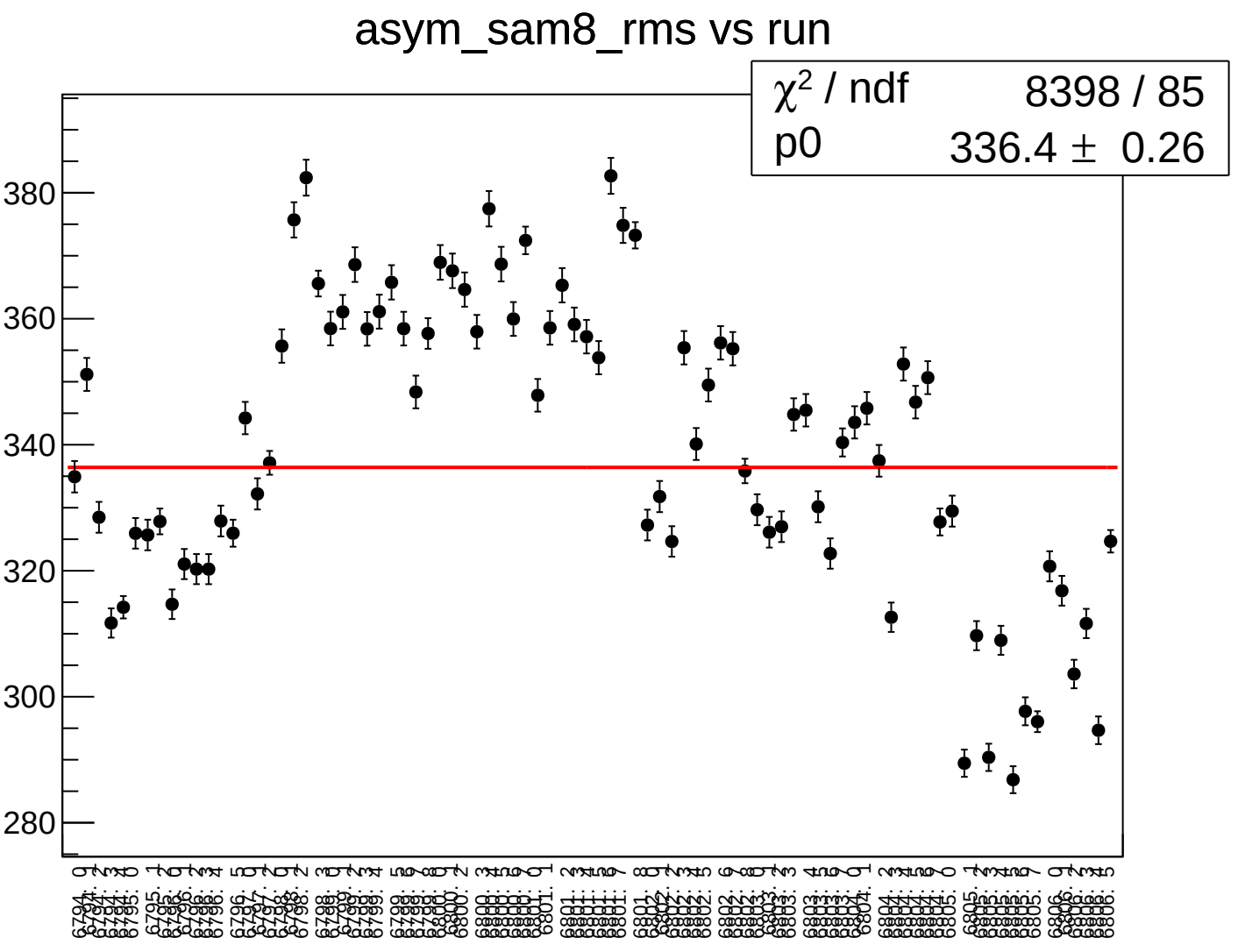

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 76.16 / 85
p0 −137.2 ± 367
pull
Entries 86
Mean 29.77
Std Dev 33.63

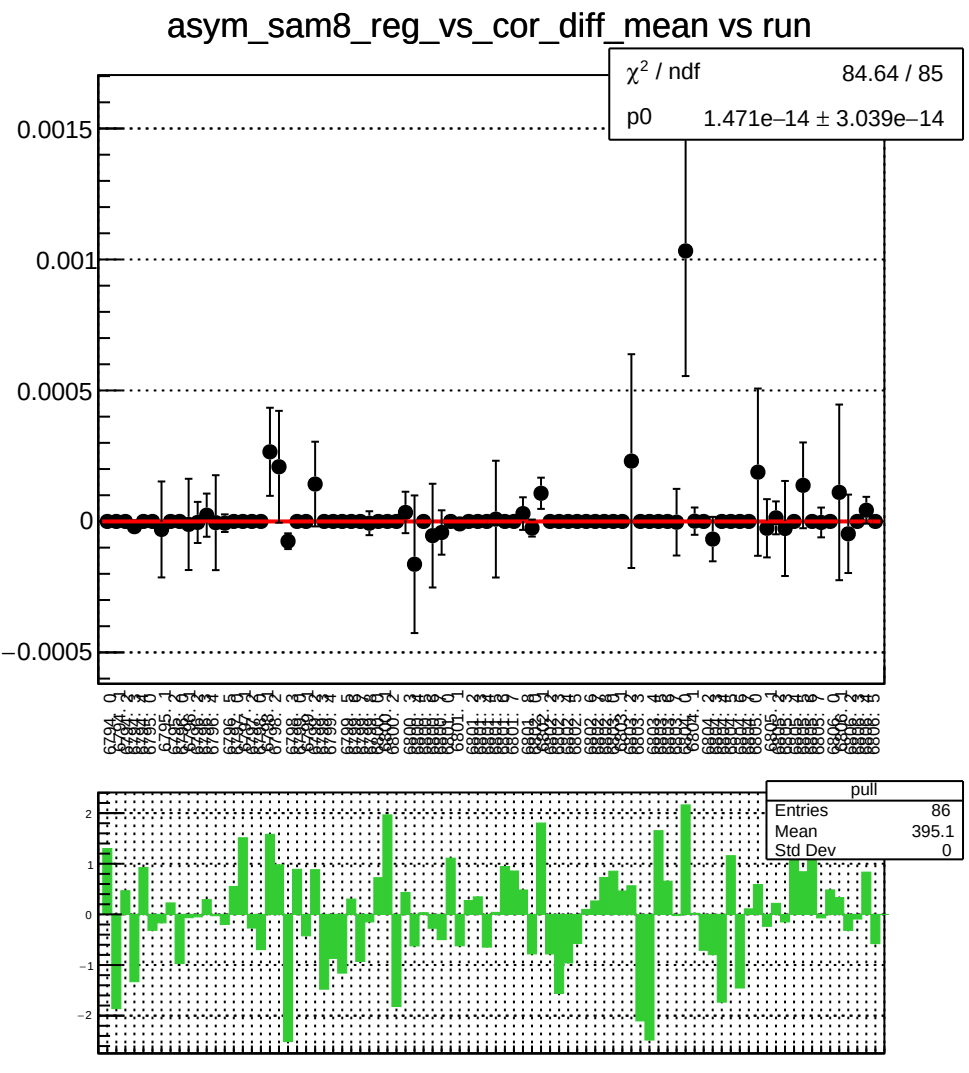

pull1D
Entries 86
Mean 0.01036
Std Dev 0.941

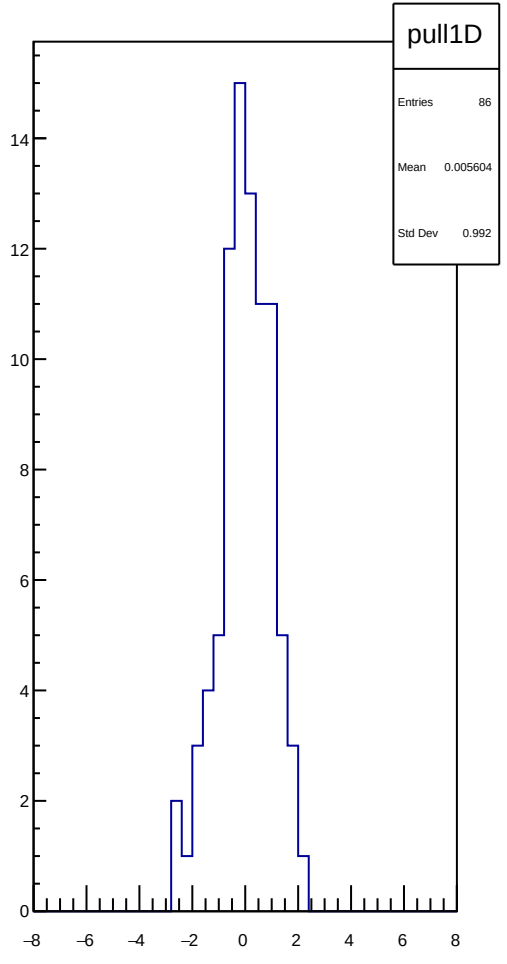

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 8688 / 85
p0 335.7 ± 0.2595
400
380
360
340
320
300
280

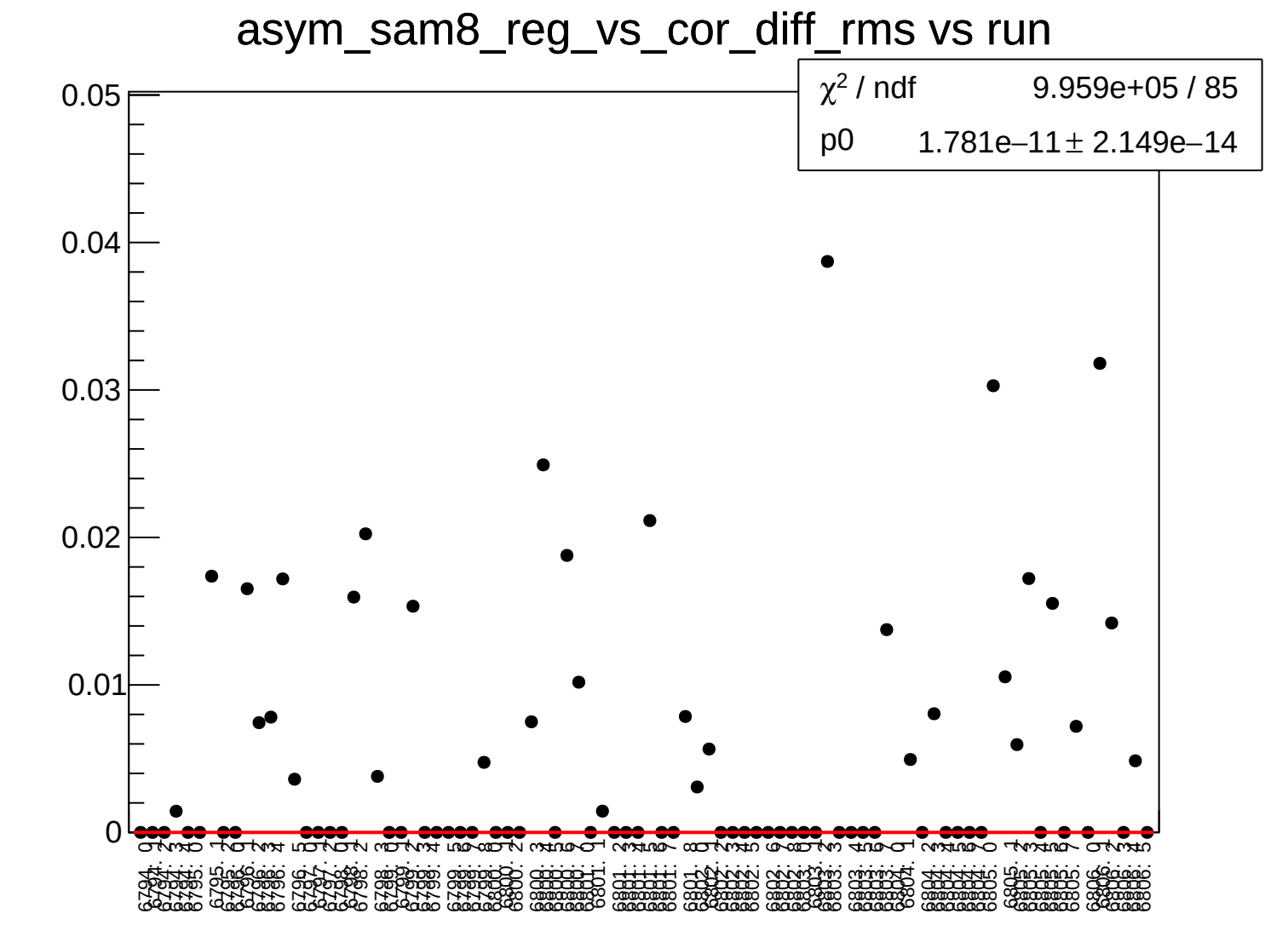

asym_sam8_mean vs run
χ² / ndf 77.88 / 85
p0 116 ± 367.7
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 92.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

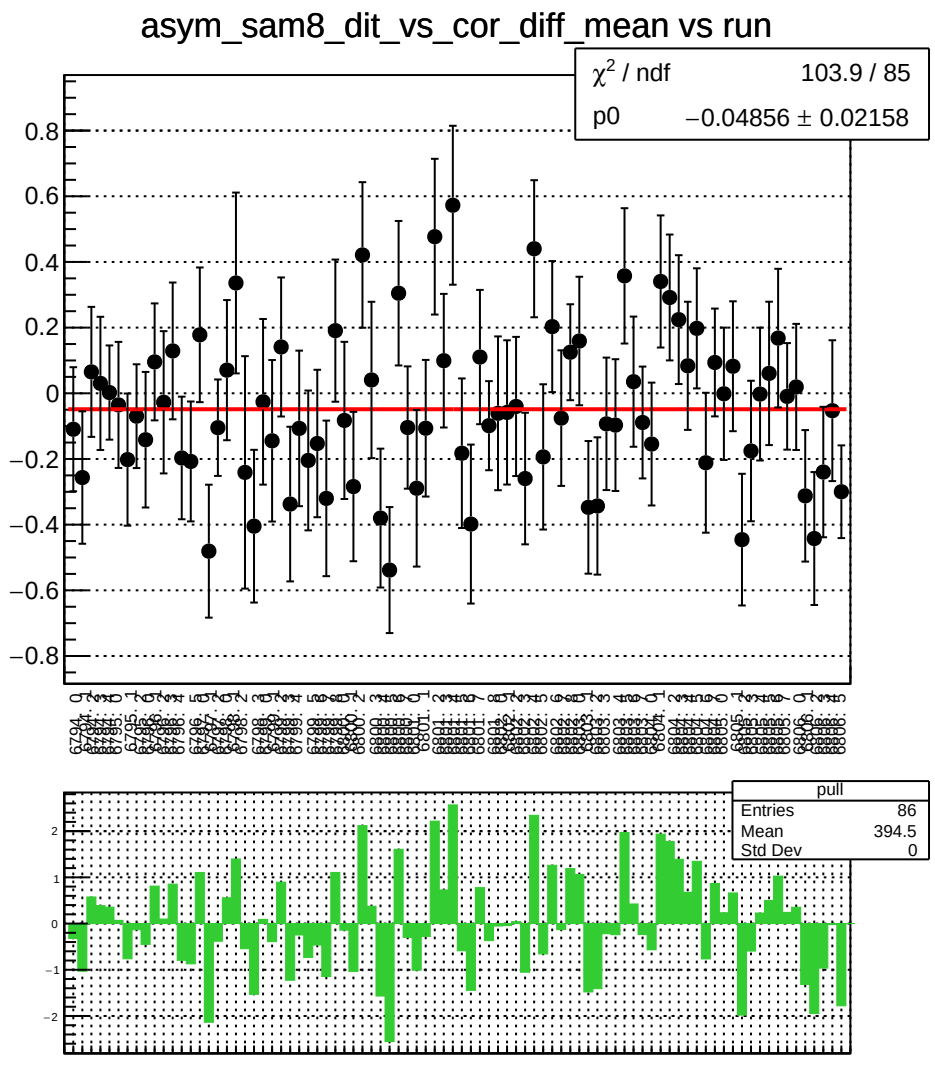

pull1D
Entries 86
Mean −0.01066
Std Dev 0.9516
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

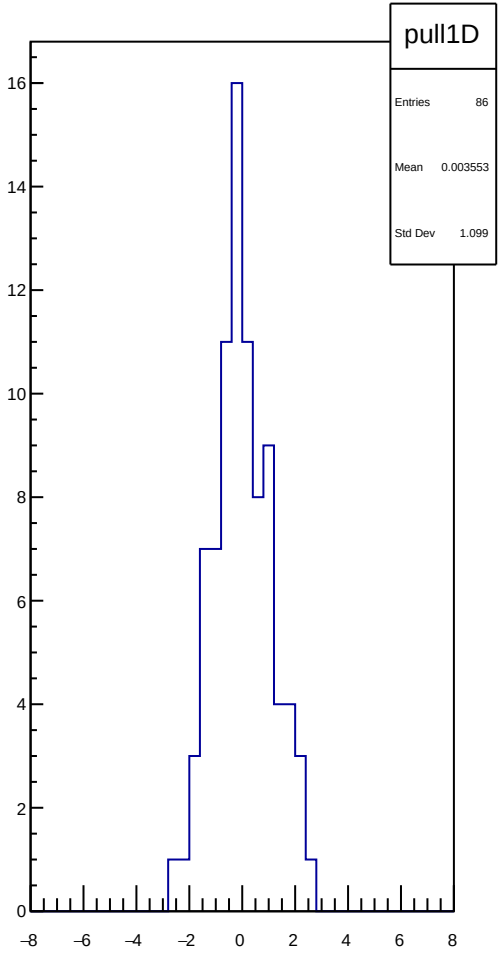

asym_sam8_rms vs run
χ² / ndf 8398 / 85
p0 336.4 ± 0.26
380
360
340
320
300
280

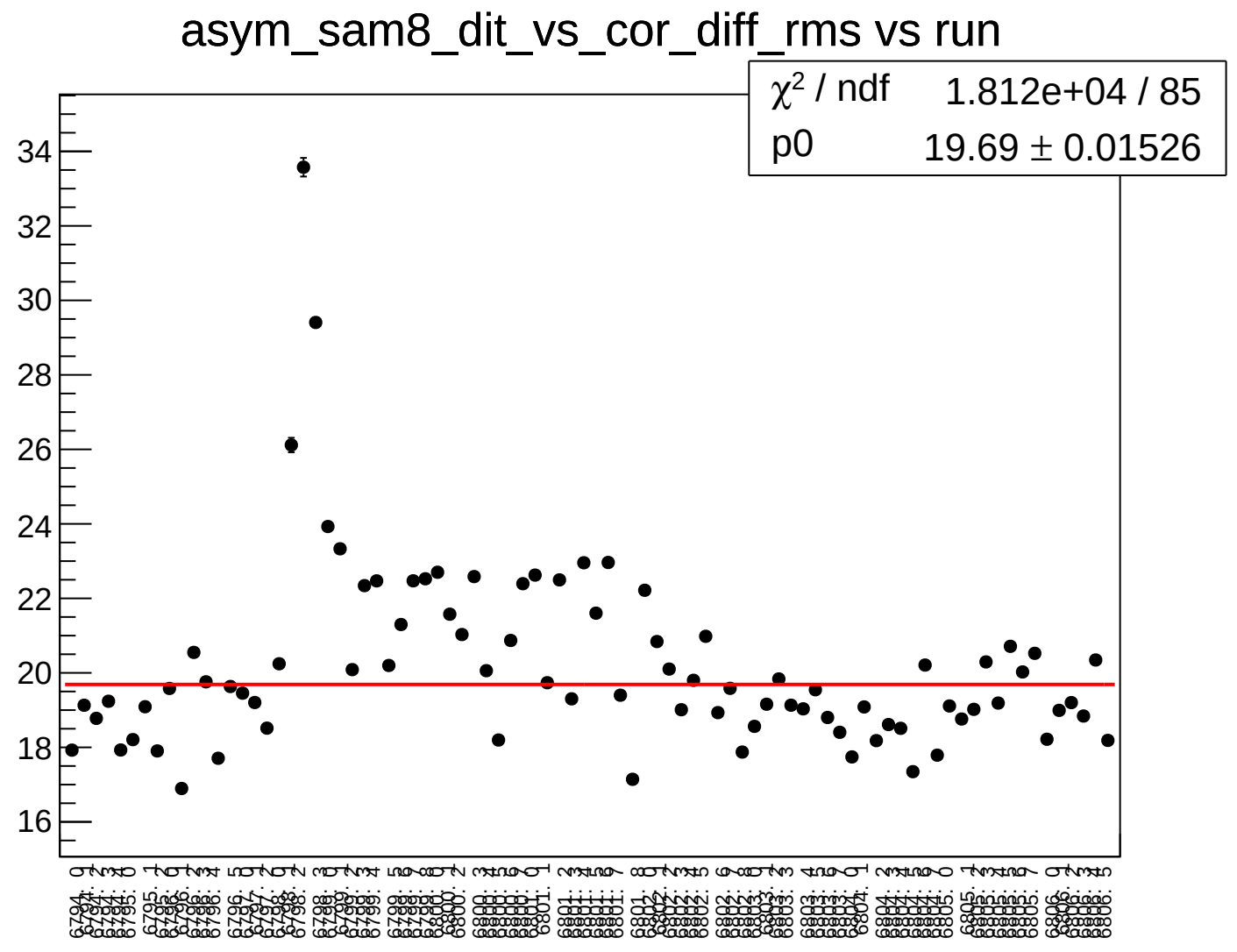

asym_sam8_reg_vs_cor_diff_mean vs run
χ² / ndf 84.64 / 85
p0 1.471e−14 ± 3.039e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 86
Mean 395.1
Std Dev 0
2
1
0
−1
−2

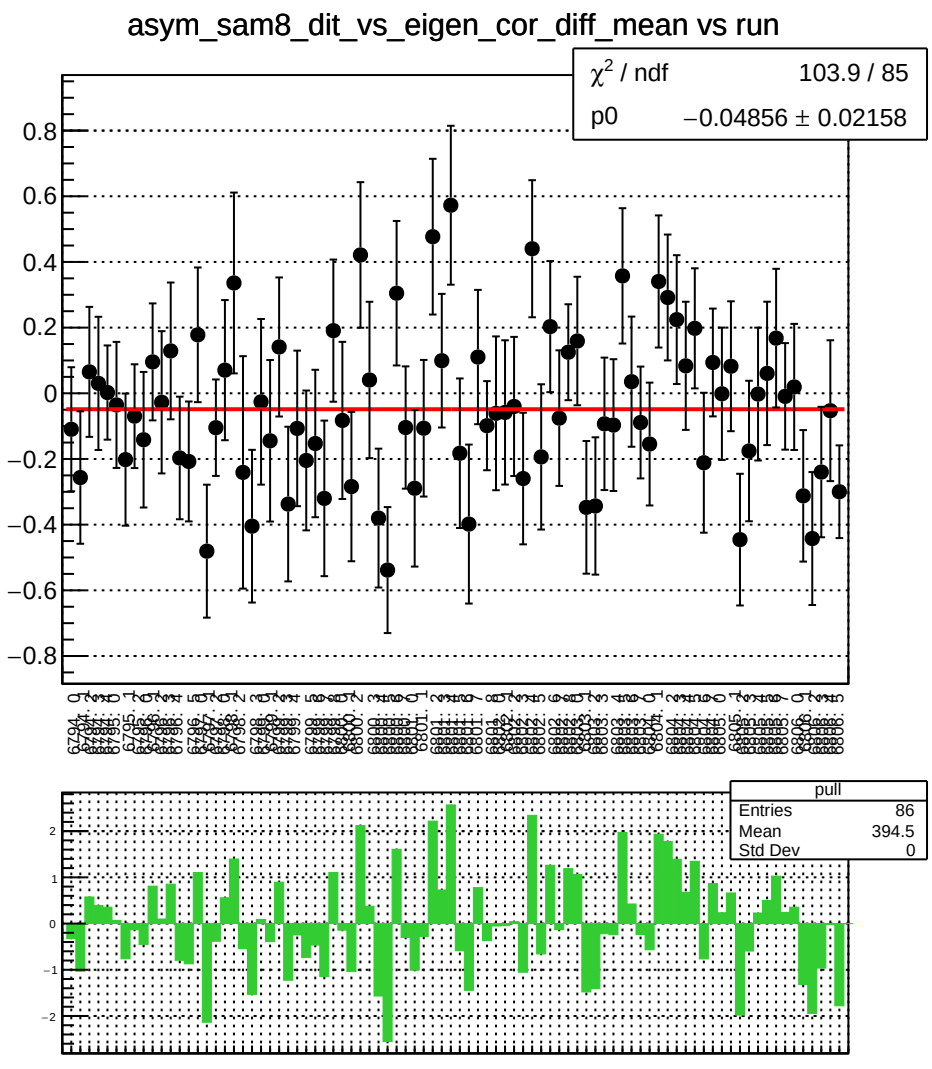

pull1D
Entries 86
Mean 0.005604
Std Dev 0.992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

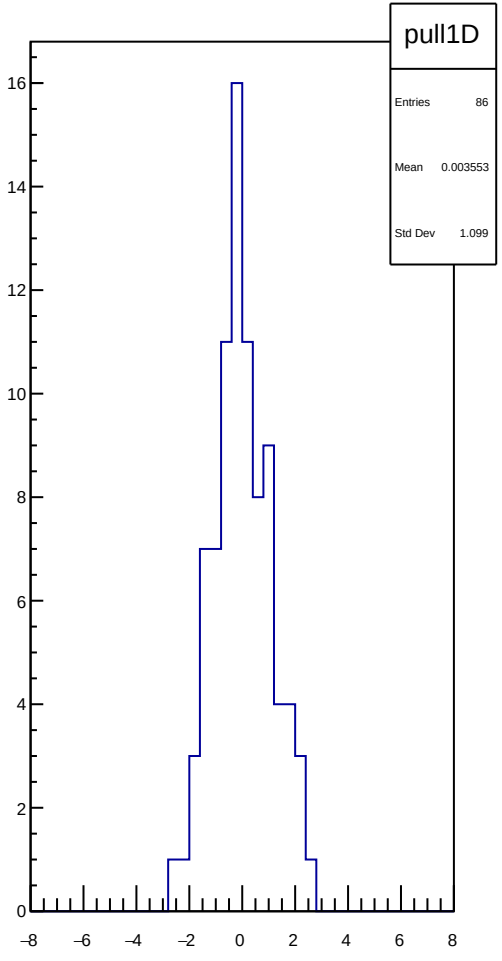

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 9.959e+05 / 85
p0 1.781e−11 ± 2.149e−14
0.05
0.04
0.03
0.02
0.01
0

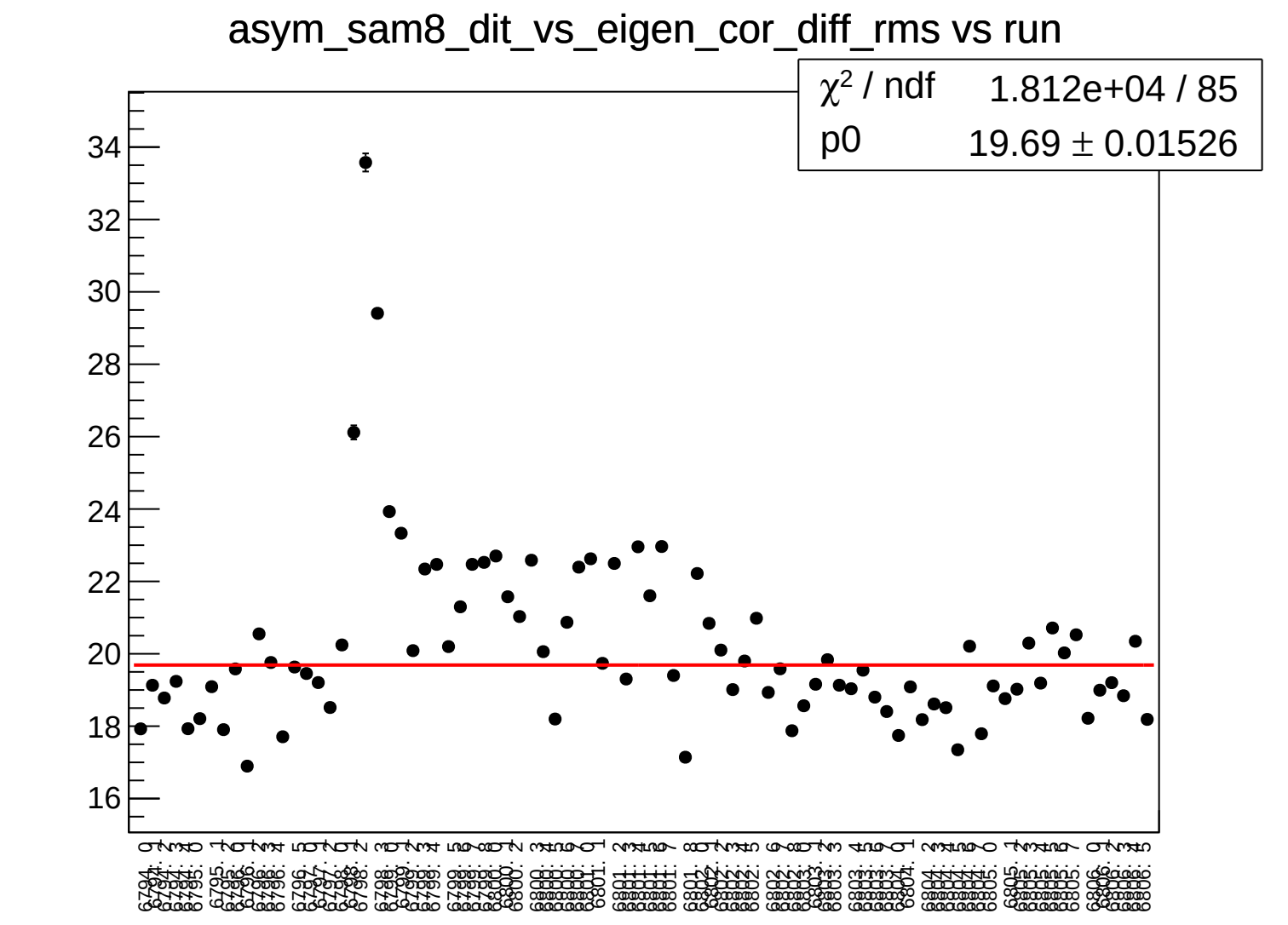

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 −0.04856 ± 0.02158
pull
Entries 86
Mean 394.5
Std Dev 0

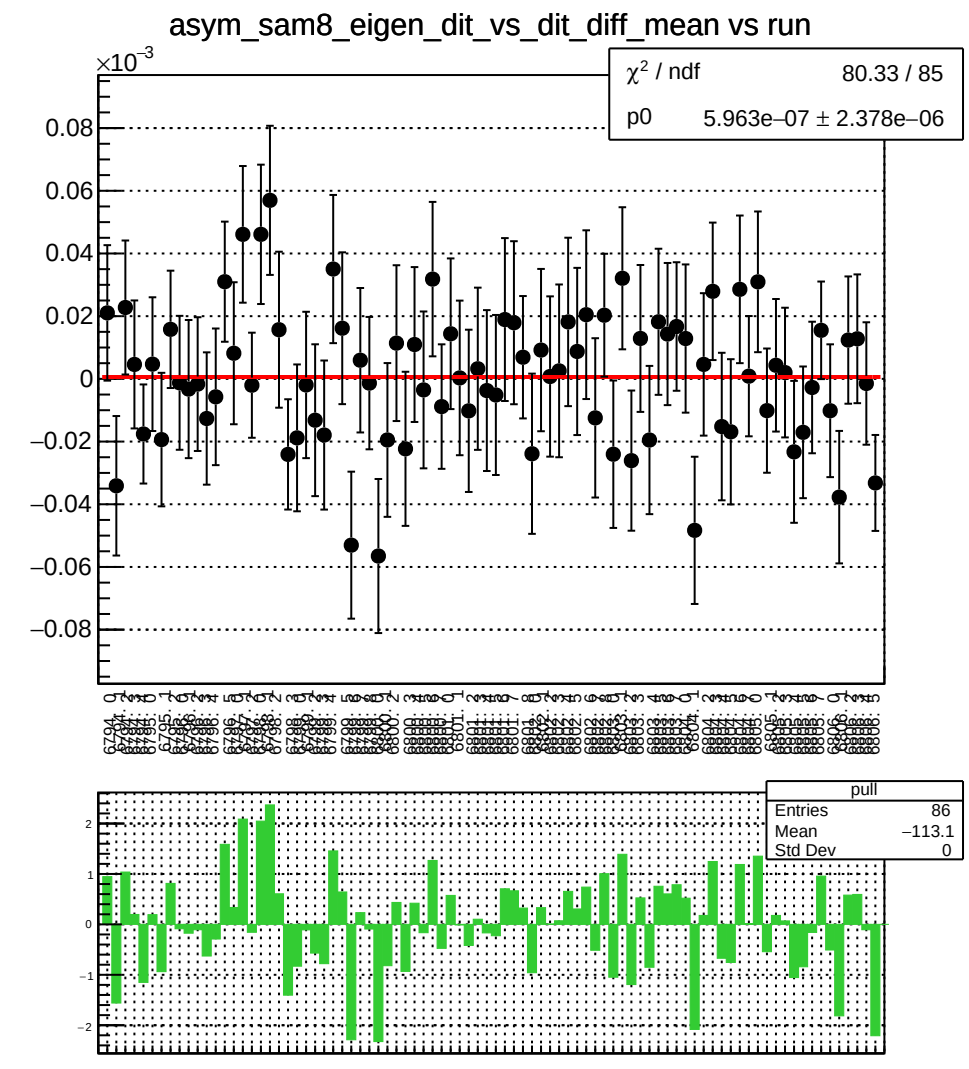

pull1D
Entries 86
Mean 0.003553
Std Dev 1.099

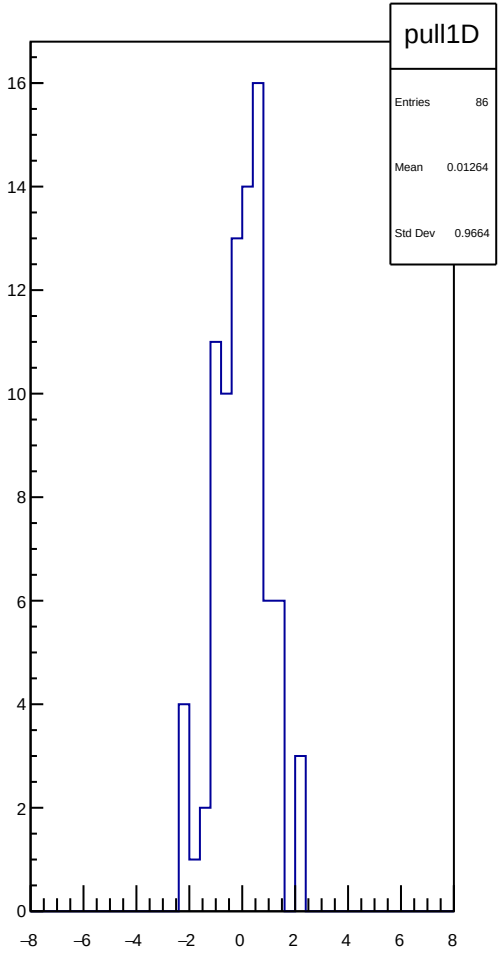

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 85
p0 19.69 ± 0.01526
34
32
30
28
26
24
22
20
18
16

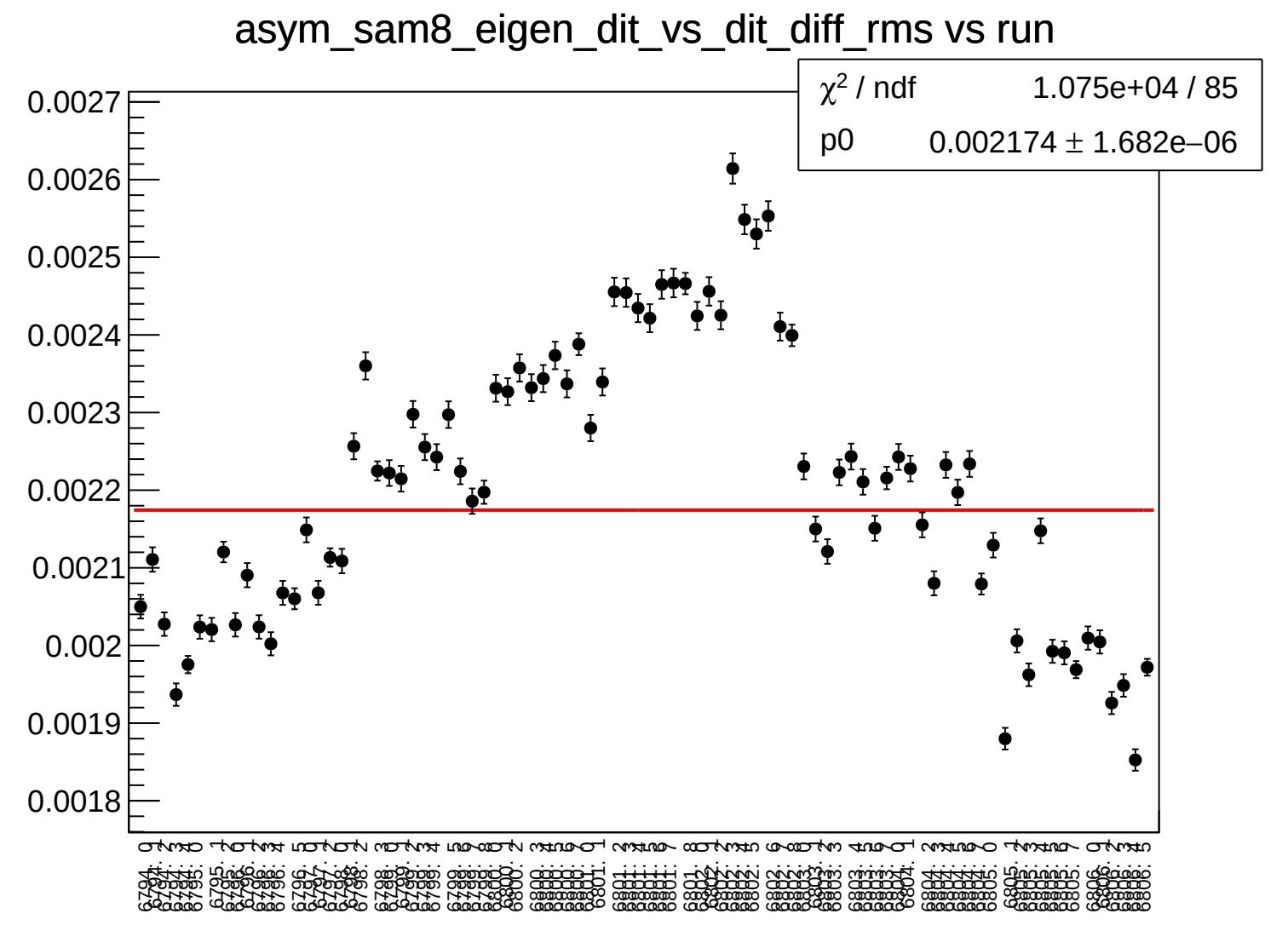

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 −0.04856 ± 0.02158
pull
Entries 86
Mean 394.5
Std Dev 0

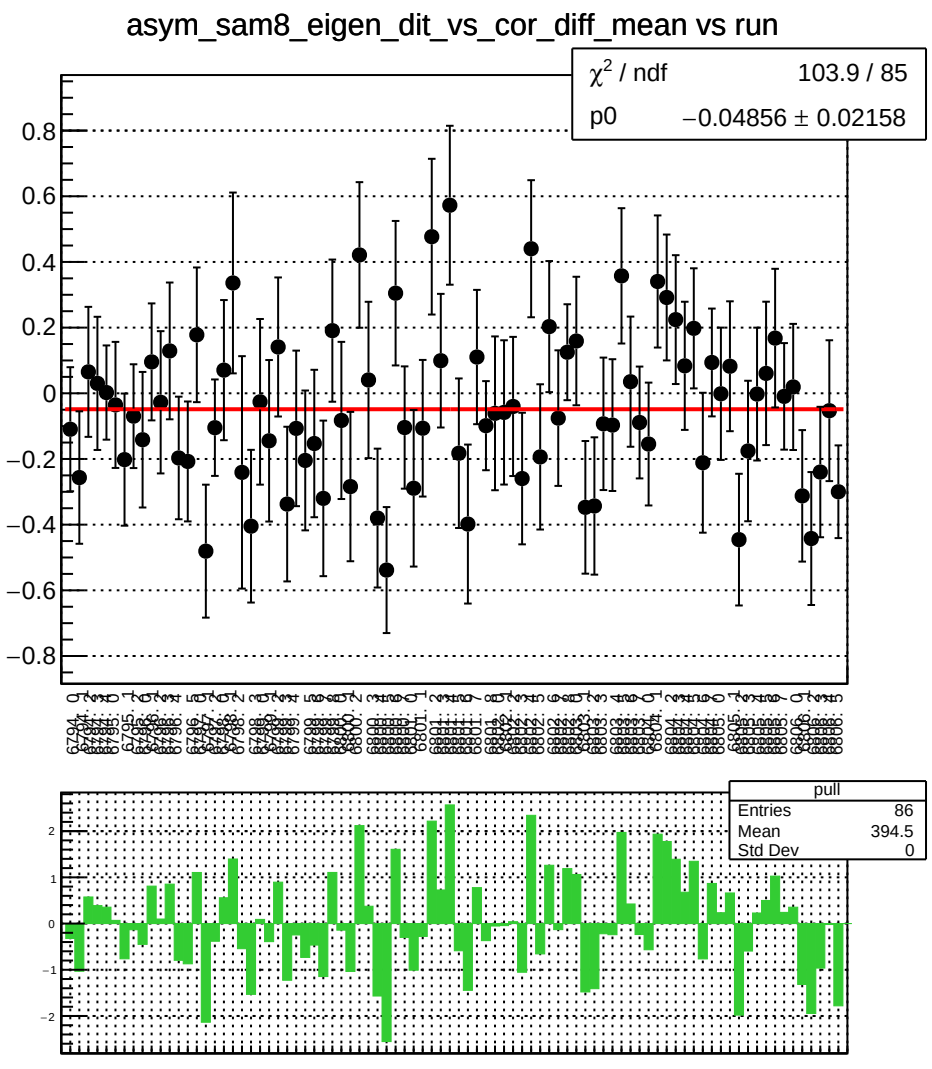

pull1D
Entries 86
Mean 0.003553
Std Dev 1.099

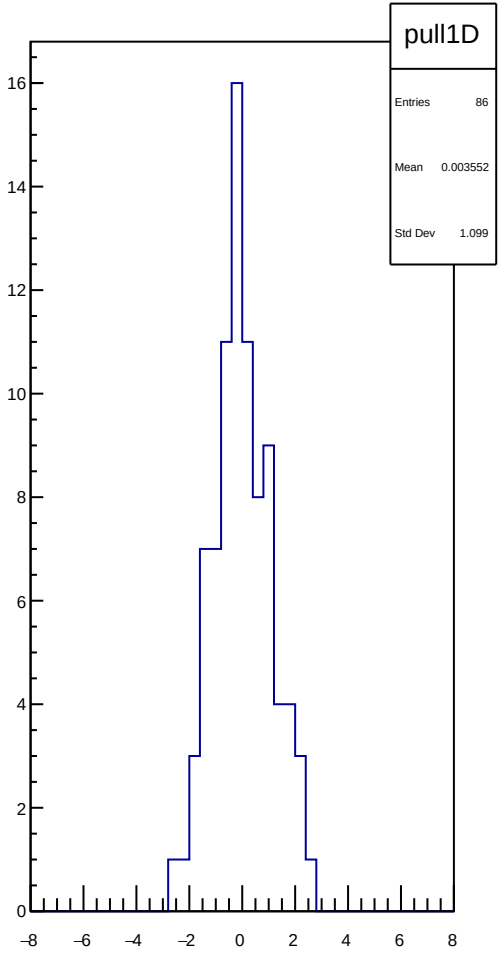

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 85
p0 19.69 ± 0.01526
34
32
30
28
26
24
22
20
18
16

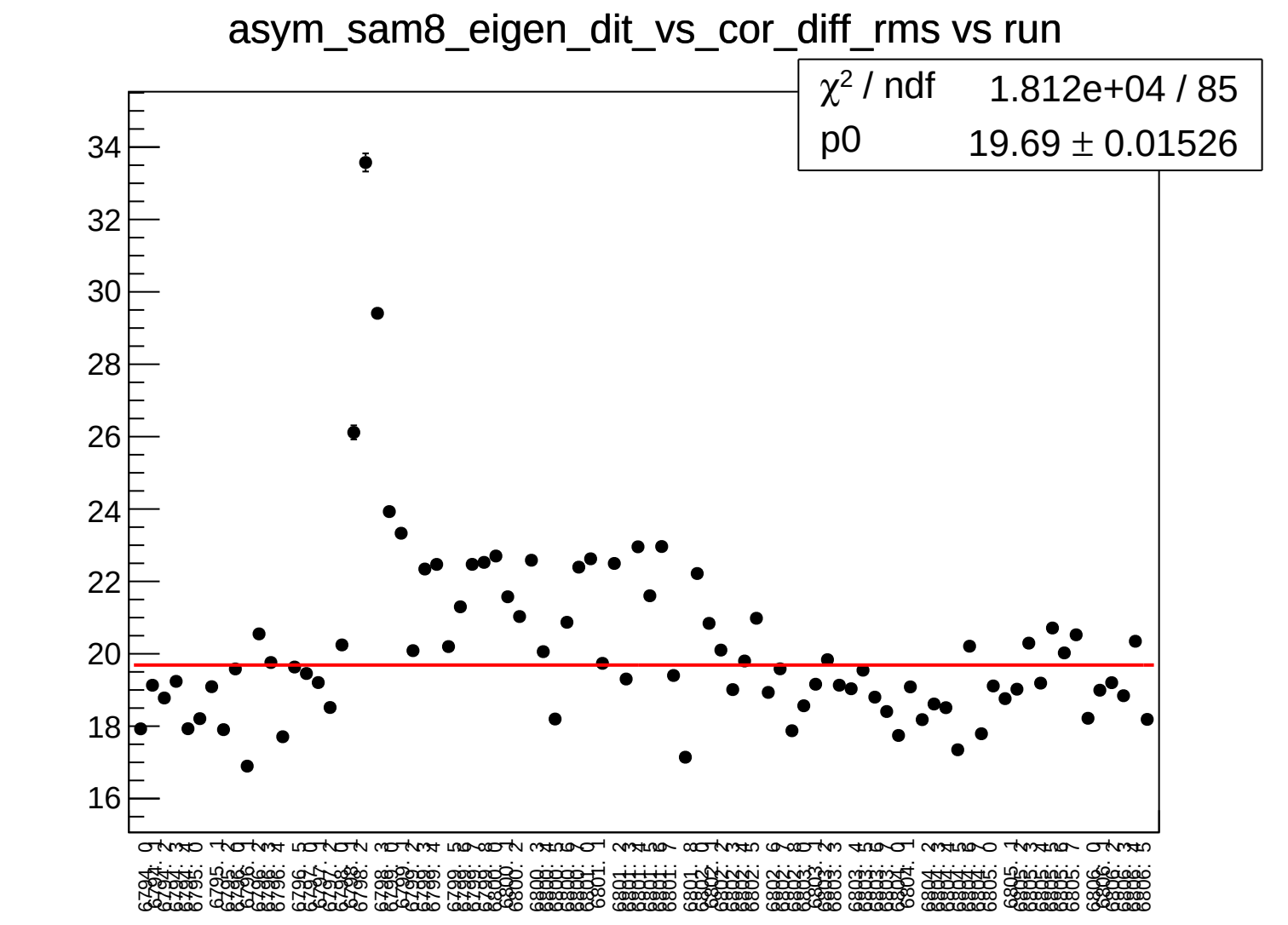

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.33 / 85
p0 5.963e−07 ± 2.378e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −113.1
Std Dev 0
2
1
0
−1
−2

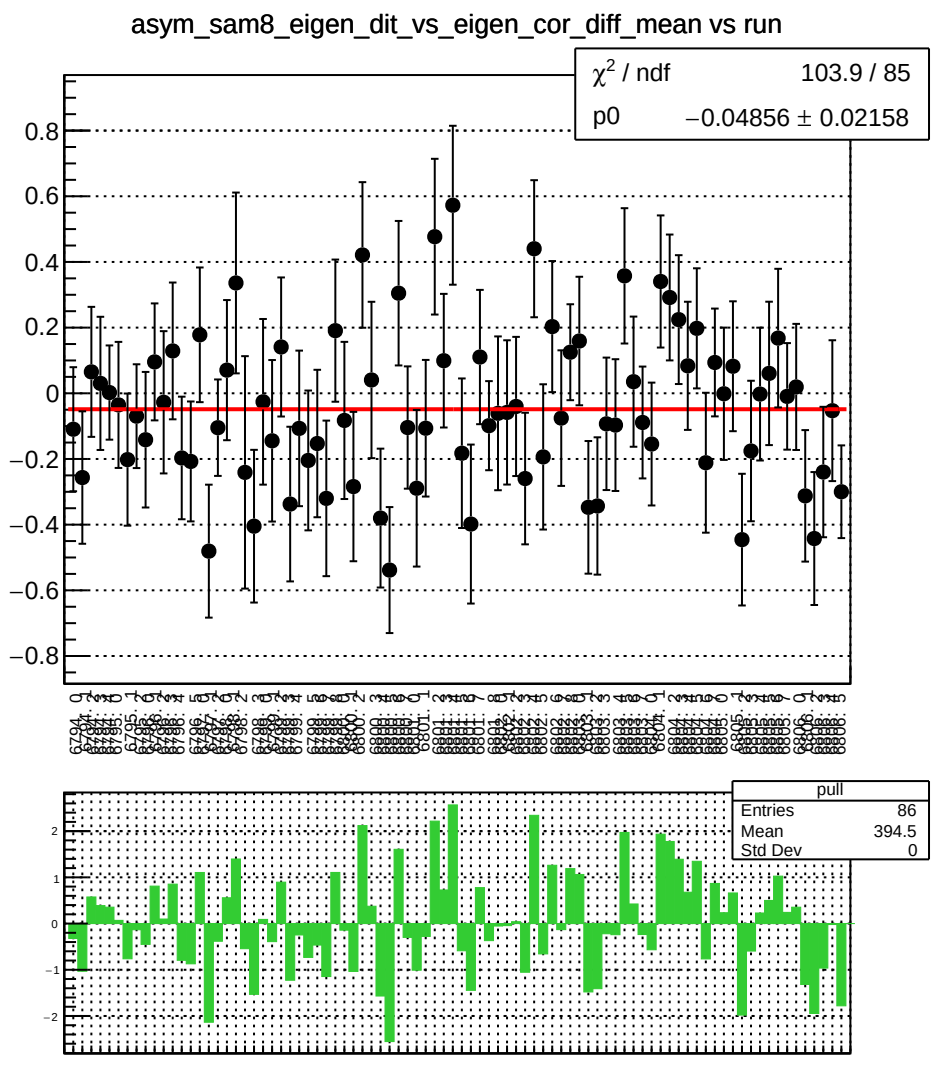

pull1D
Entries 86
Mean 0.01264
Std Dev 0.9664
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

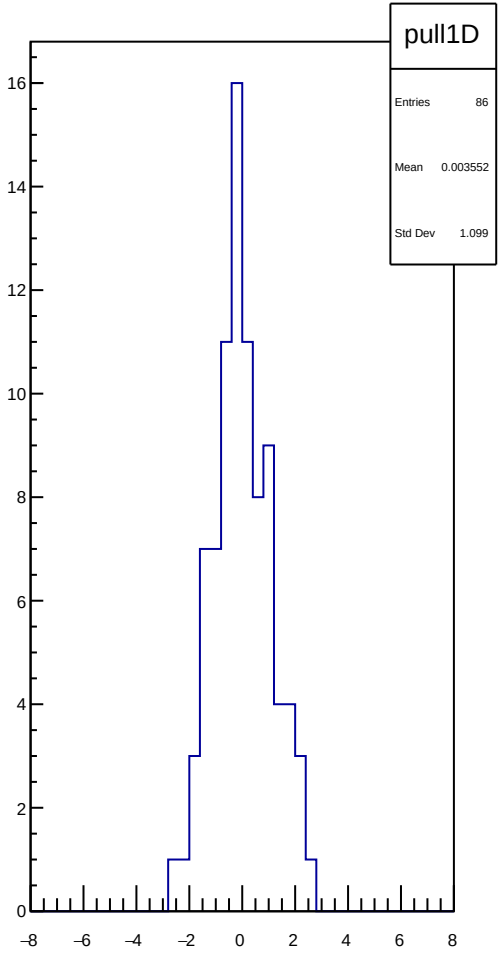

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.075e+04 / 85
p0 0.002174 ± 1.682e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

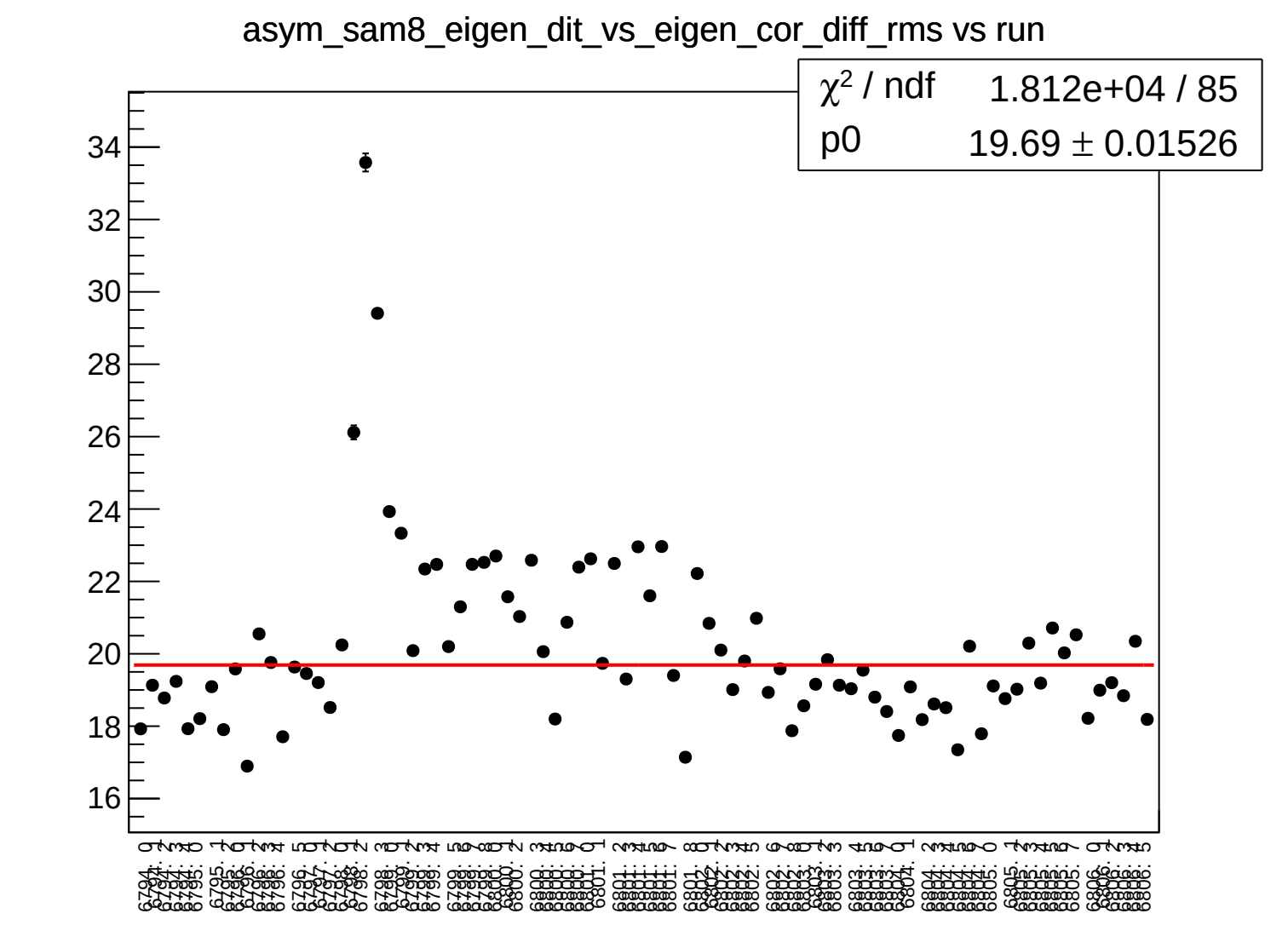

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 −0.04856 ± 0.02158
pull
Entries 86
Mean 394.5
Std Dev 0

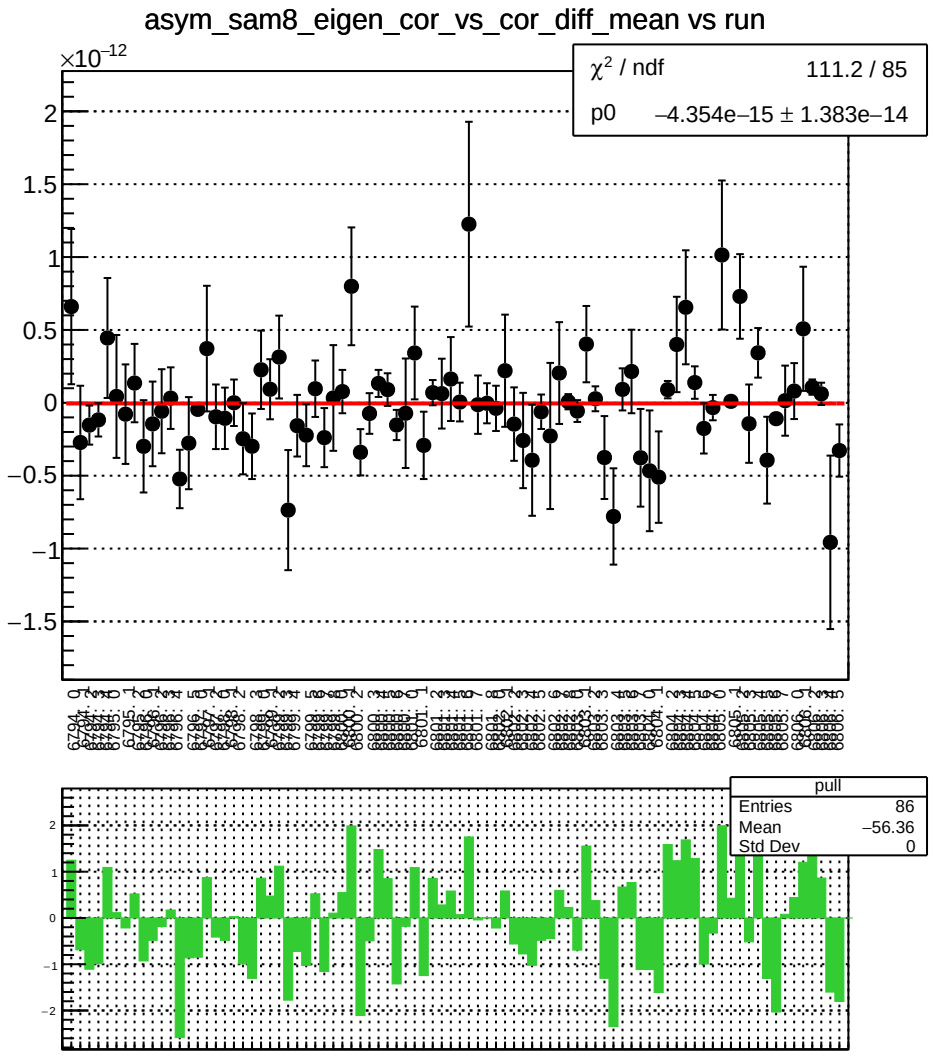

pull1D
Entries 86
Mean 0.003552
Std Dev 1.099

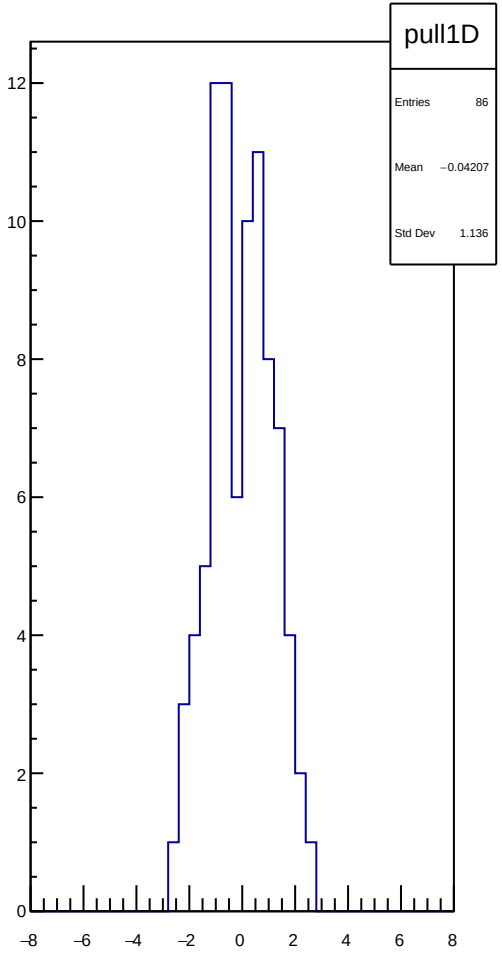

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 85
p0 19.69 ± 0.01526
34
32
30
28
26
24
22
20
18
16

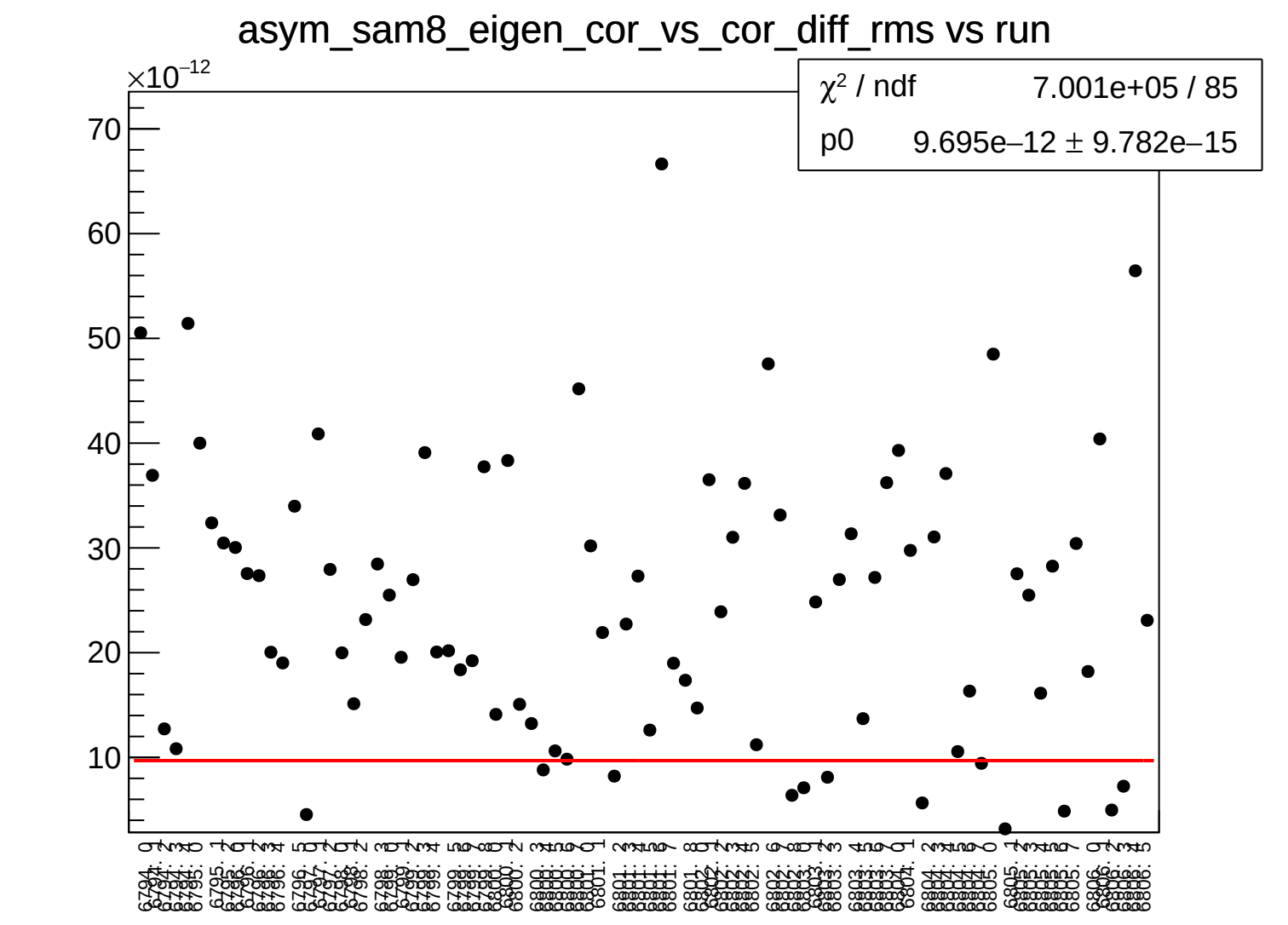

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 85
p0 −0.04856 ± 0.02158
pull
Entries 86
Mean 394.5
Std Dev 0

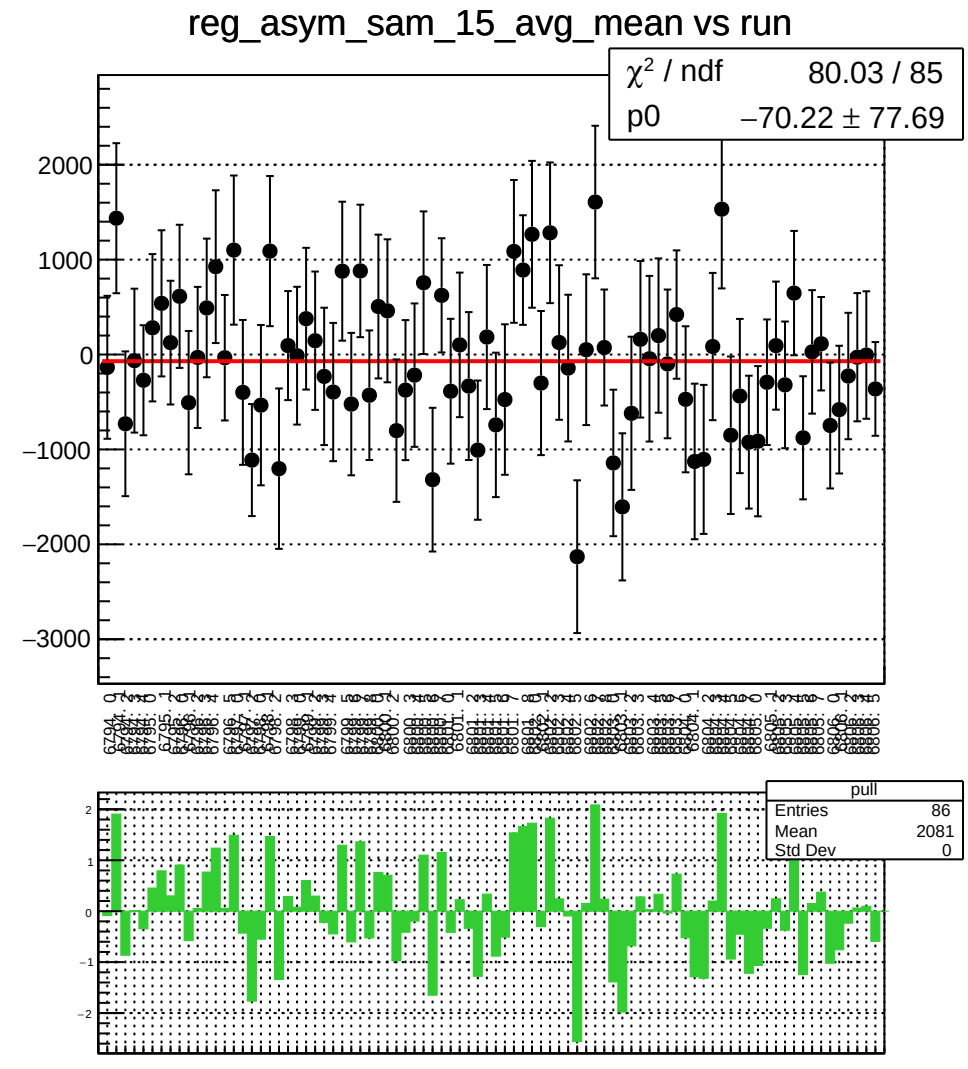

pull1D
Entries 86
Mean 0.003552
Std Dev 1.099

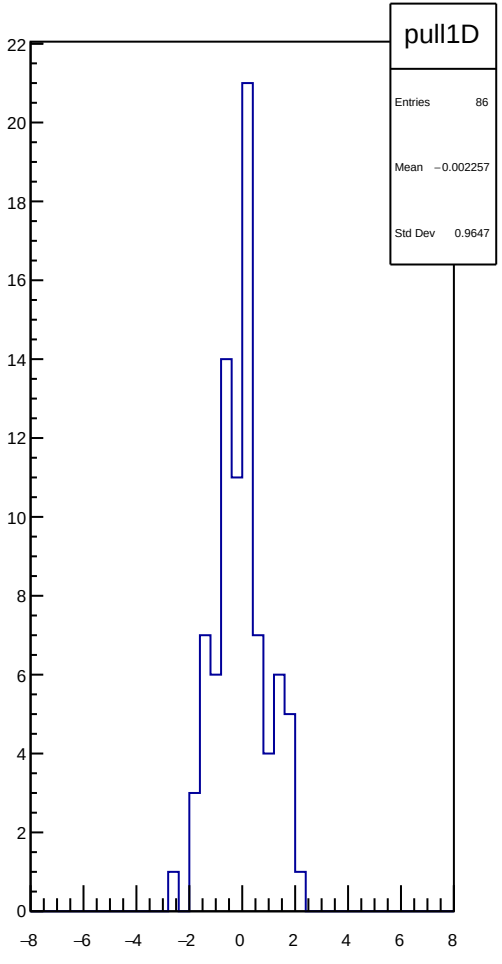

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.812e+04 / 85
p0 19.69 ± 0.01526
34
32
30
28
26
24
22
20
18
16

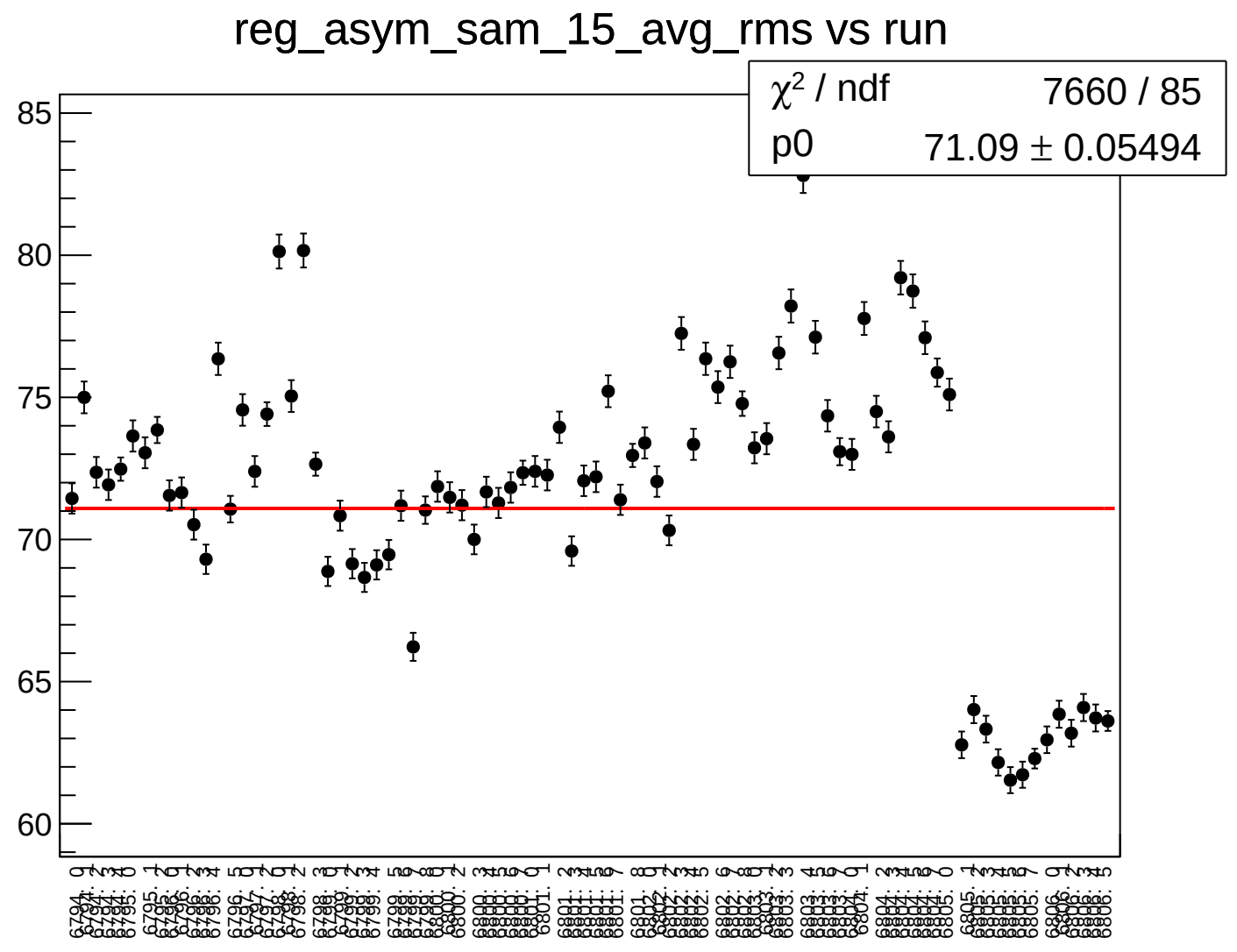

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.2 / 85
p0 −4.354e−15 ± 1.383e−14
pull
Entries 86
Mean −56.36
Std Dev 0

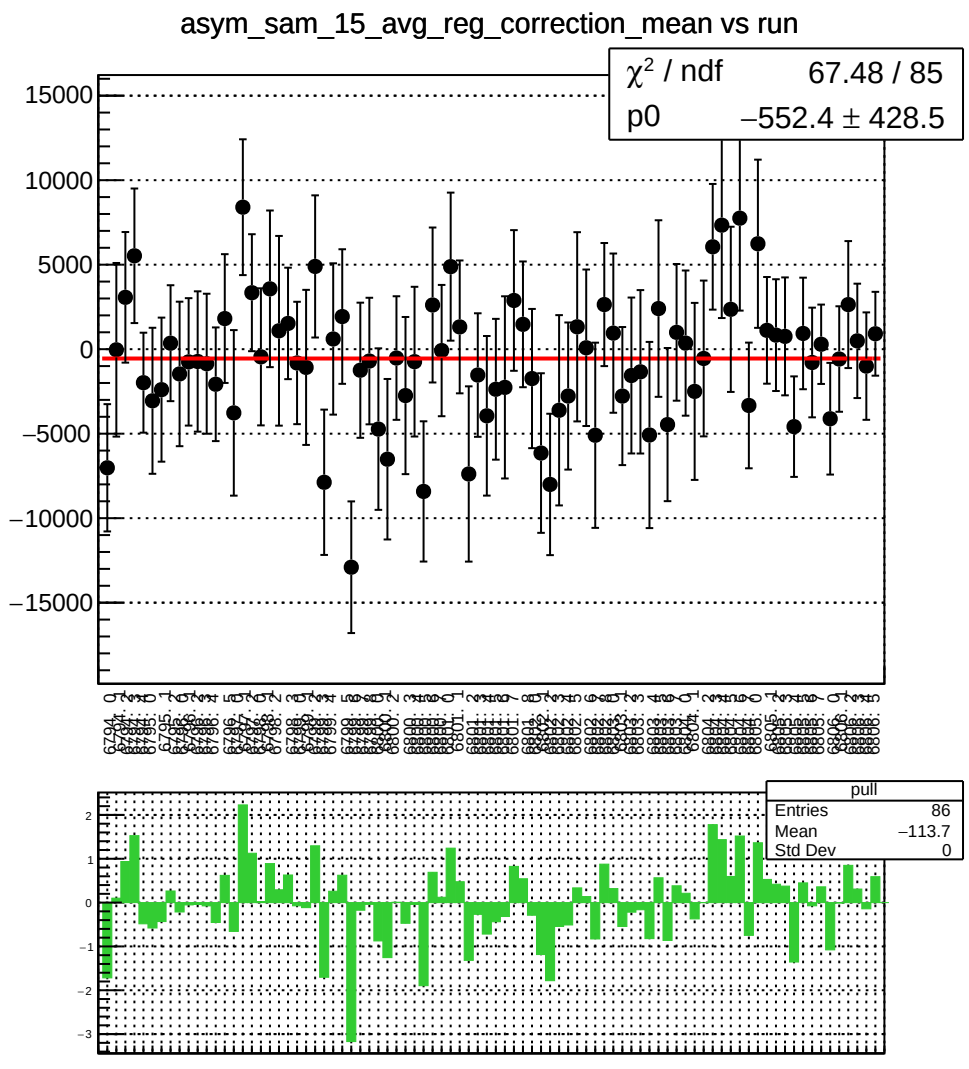

pull1D
Entries 86
Mean −0.04207
Std Dev 1.136

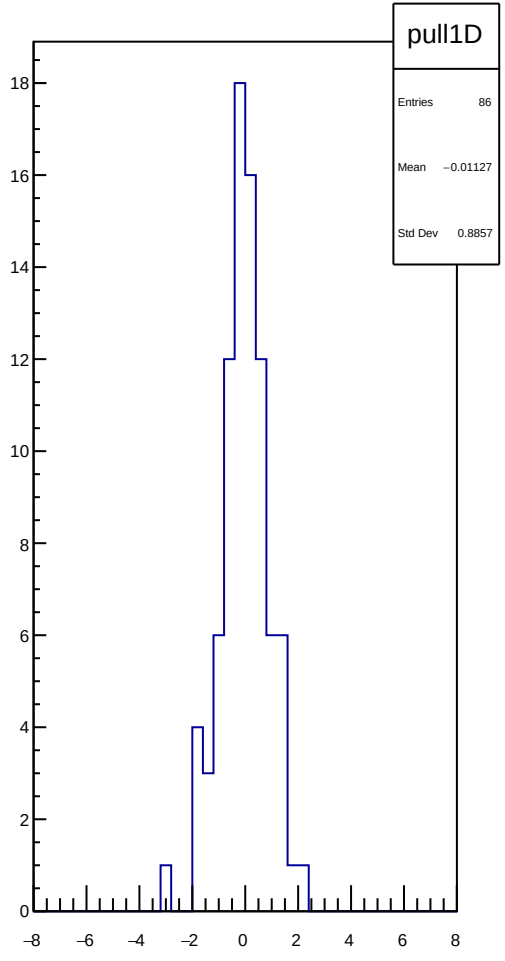

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.001e+05 / 85
p0 9.695e−12 ± 9.782e−15
70
60
50
40
30
20
10

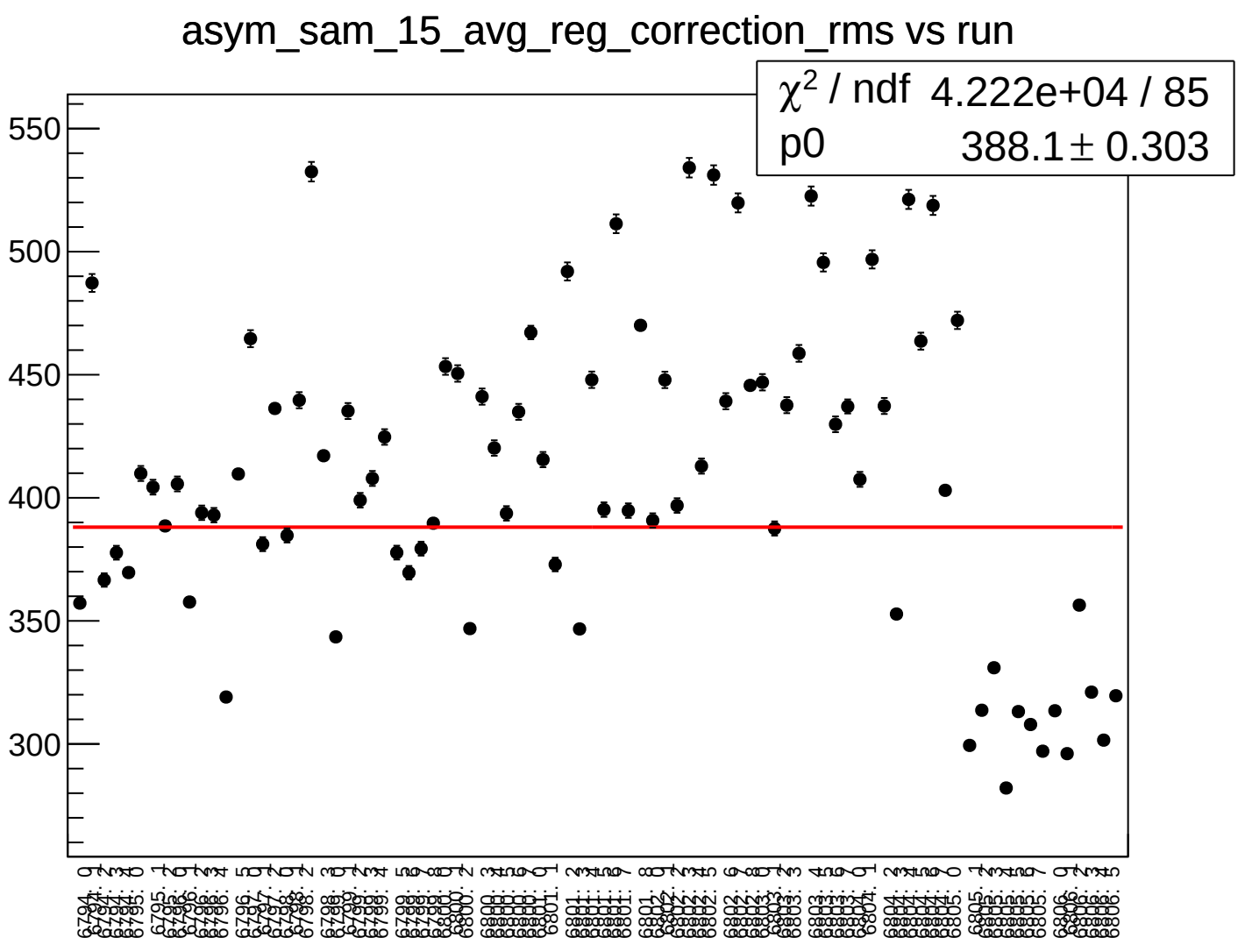

reg_asym_sam_15_avg_mean vs run
χ² / ndf 80.03 / 85
p0 −70.22 ± 77.69
pull
Entries 86
Mean 2081
Std Dev 0

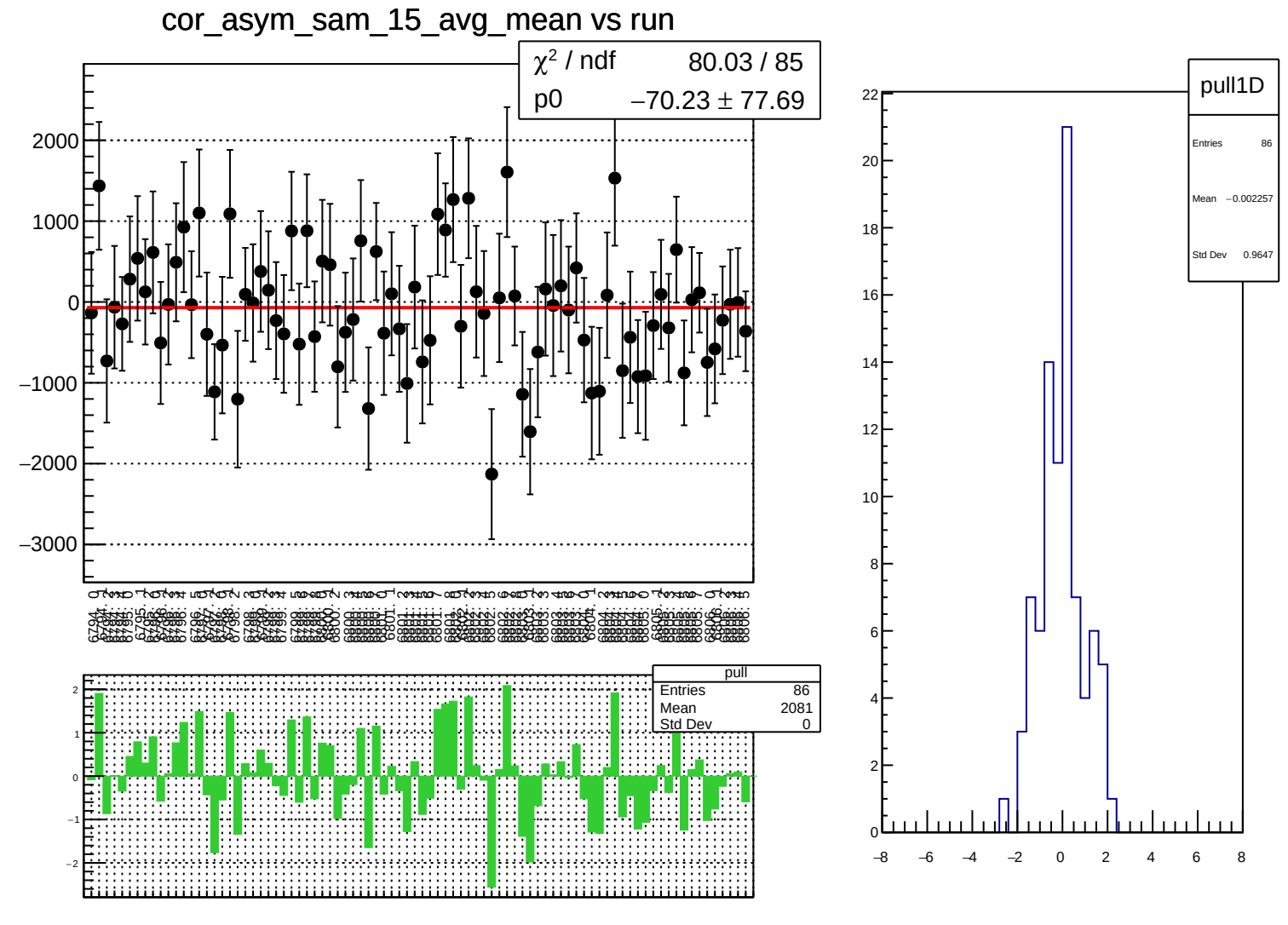

pull1D
Entries 86
Mean −0.002257
Std Dev 0.9647

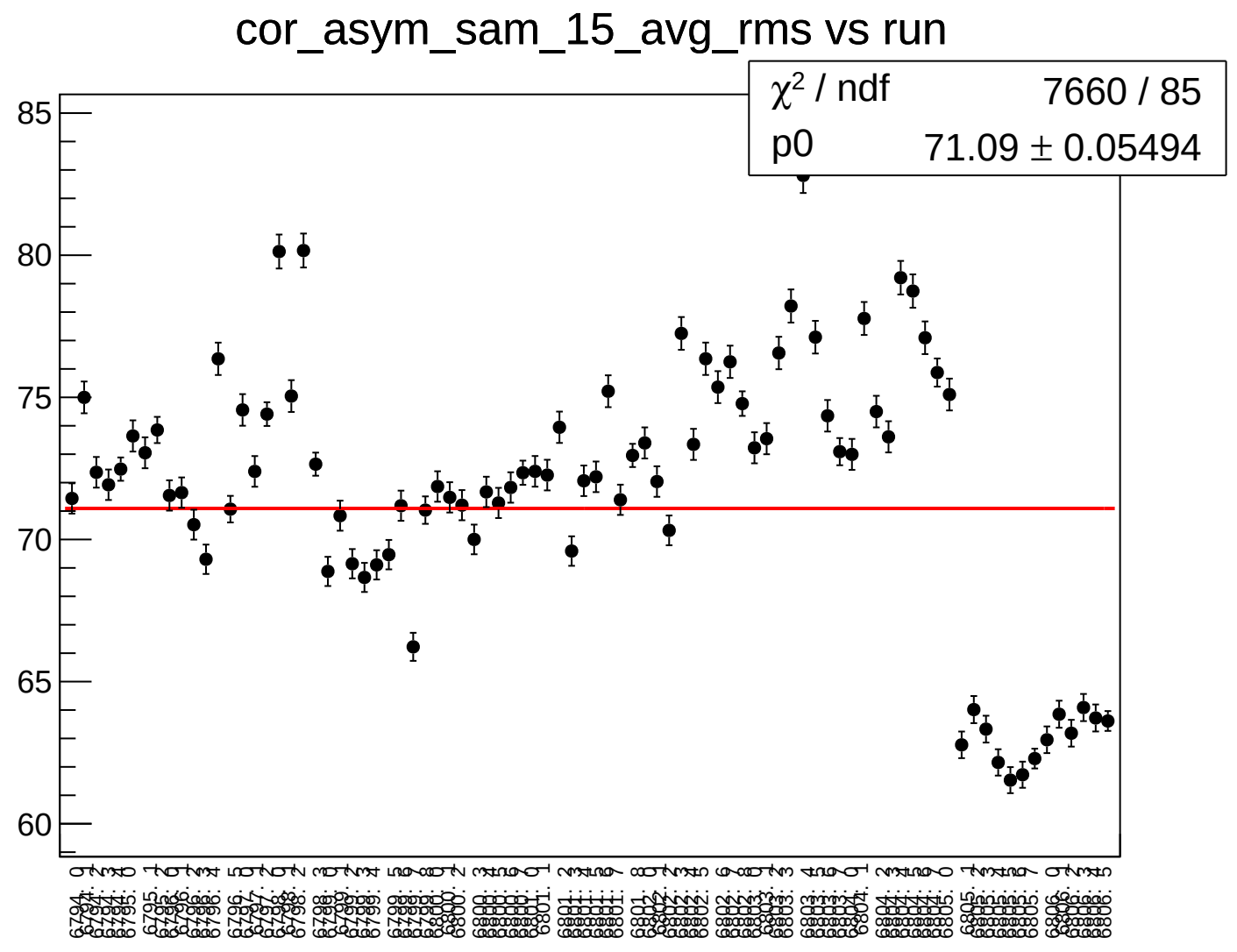

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 7660 / 85
p0 71.09 ± 0.05494
85
80
75
70
65
60

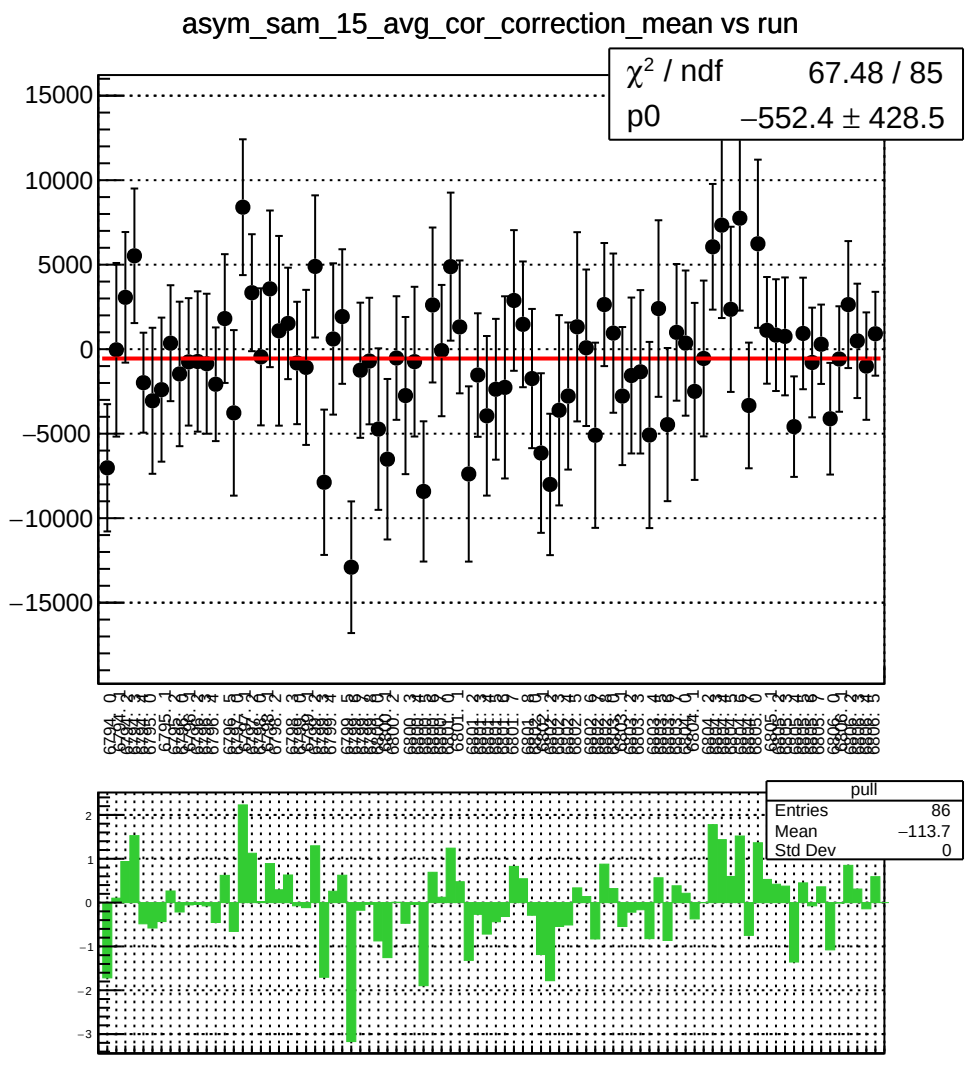

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 67.48 / 85
p0 −552.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −113.7
Std Dev 0
2
1
0
−1
−2
−3

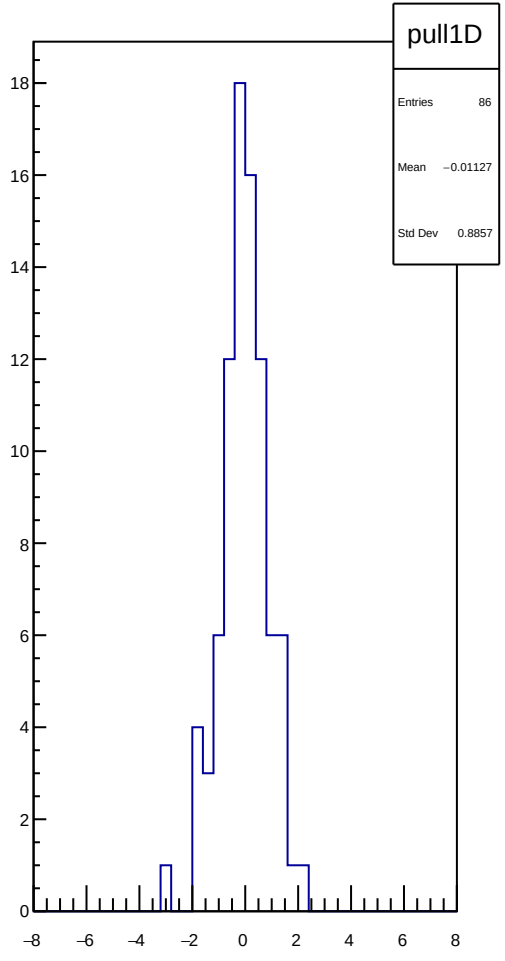

pull1D
Entries 86
Mean −0.01127
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

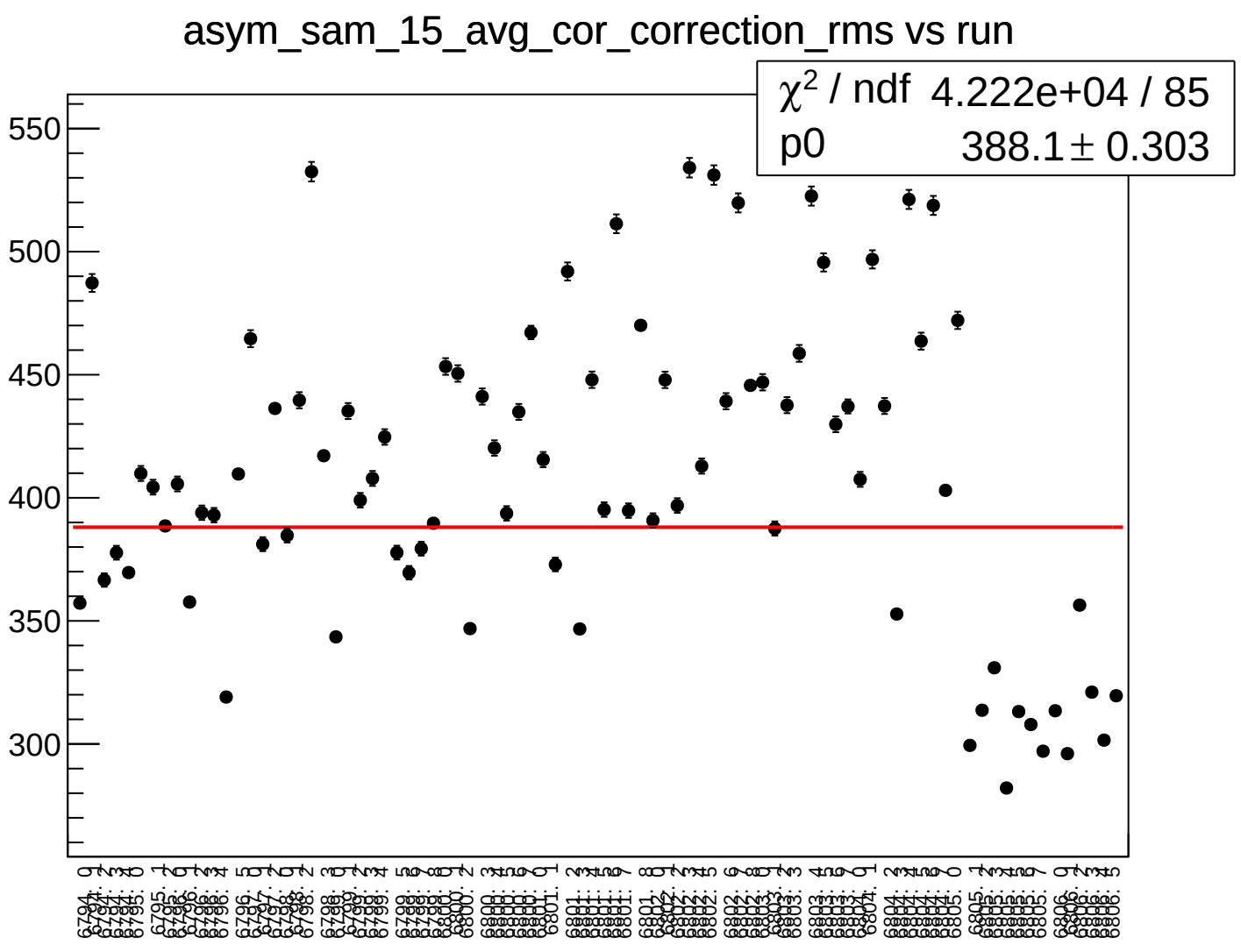

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 4.222e+04 / 85
p0 388.1 ± 0.303
550
500
450
400
350
300

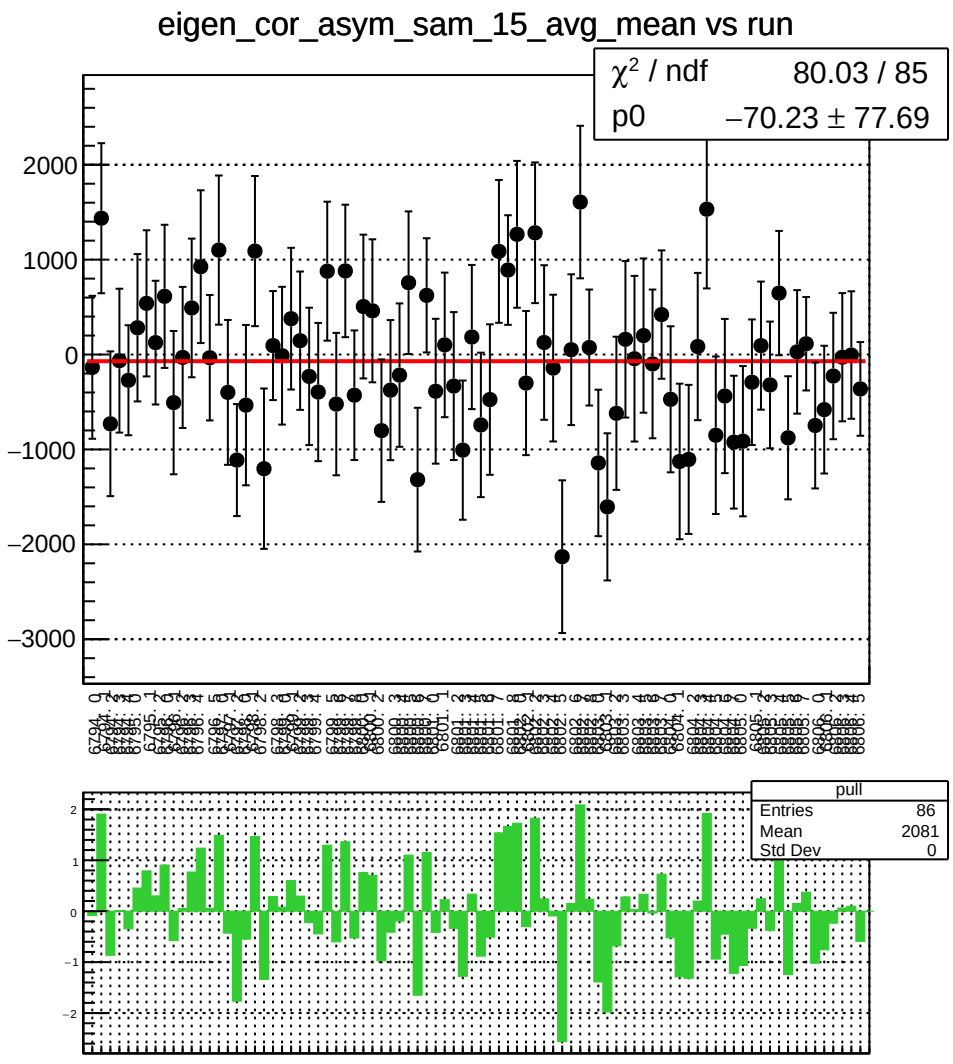

cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.03 / 85
p0 −70.23 ± 77.69
pull
Entries 86
Mean 2081
Std Dev 0
pull1D
Entries 86
Mean −0.002257
Std Dev 0.9647

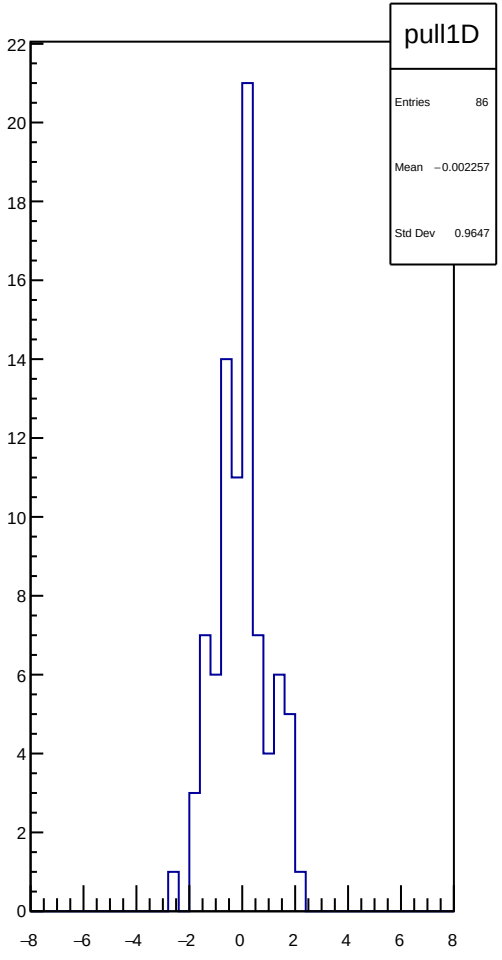

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 7660 / 85
p0 71.09 ± 0.05494
85
80
75
70
65
60

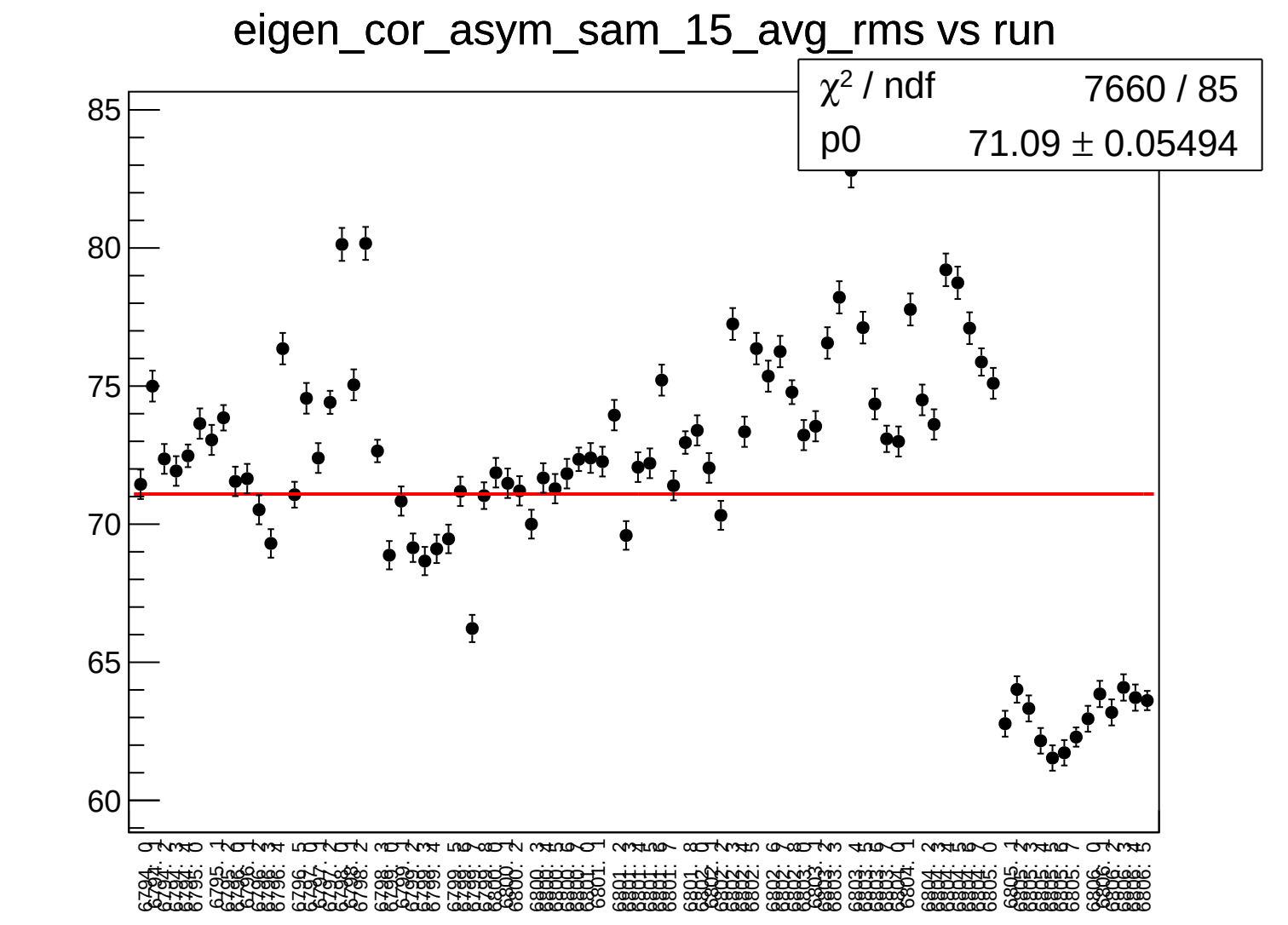

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 67.48 / 85
p0 −552.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −113.7
Std Dev 0
2
1
0
−1
−2
−3

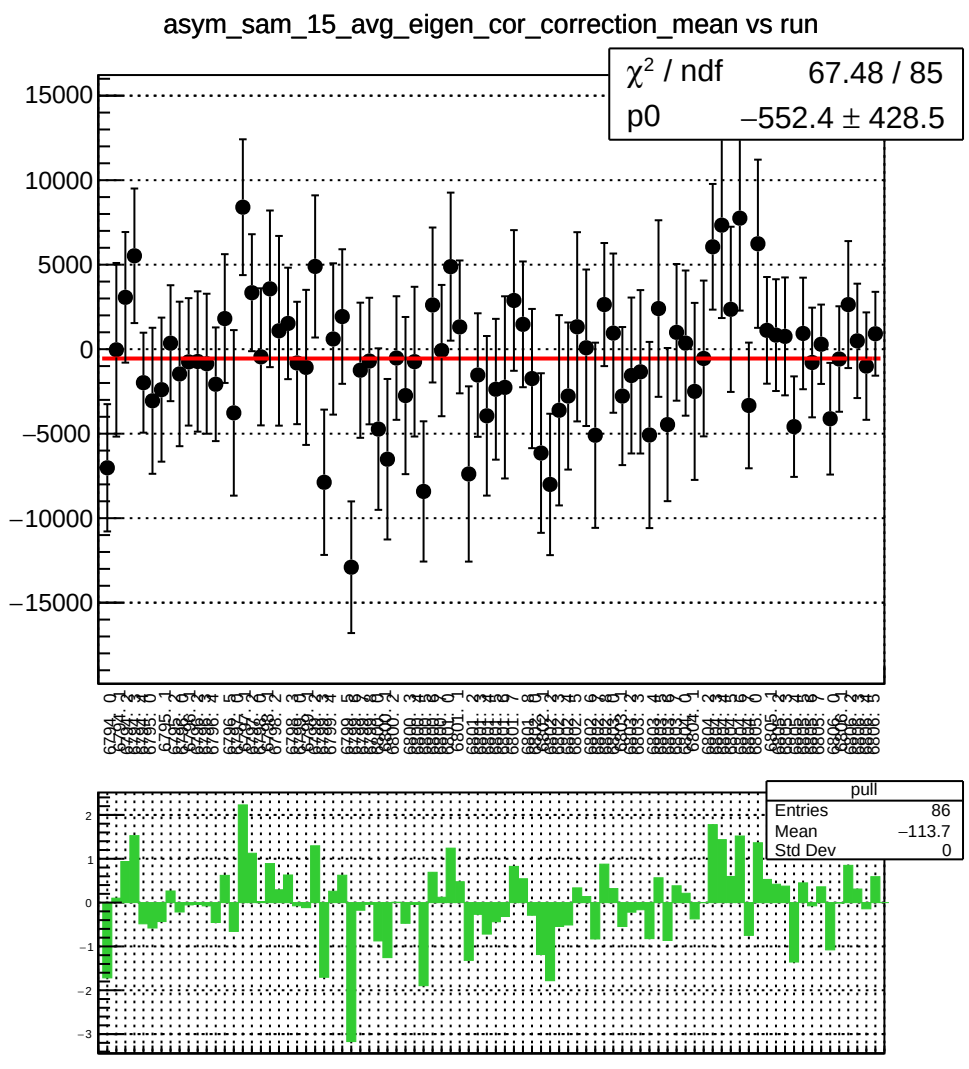

pull1D
Entries 86
Mean −0.01127
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

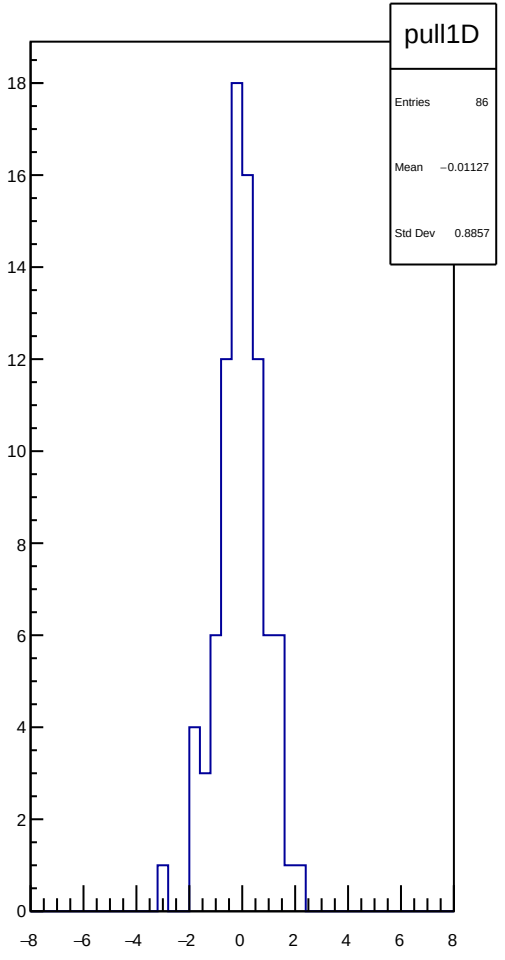

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 4.222e+04 / 85
p0 388.1 ± 0.303
550
500
450
400
350
300

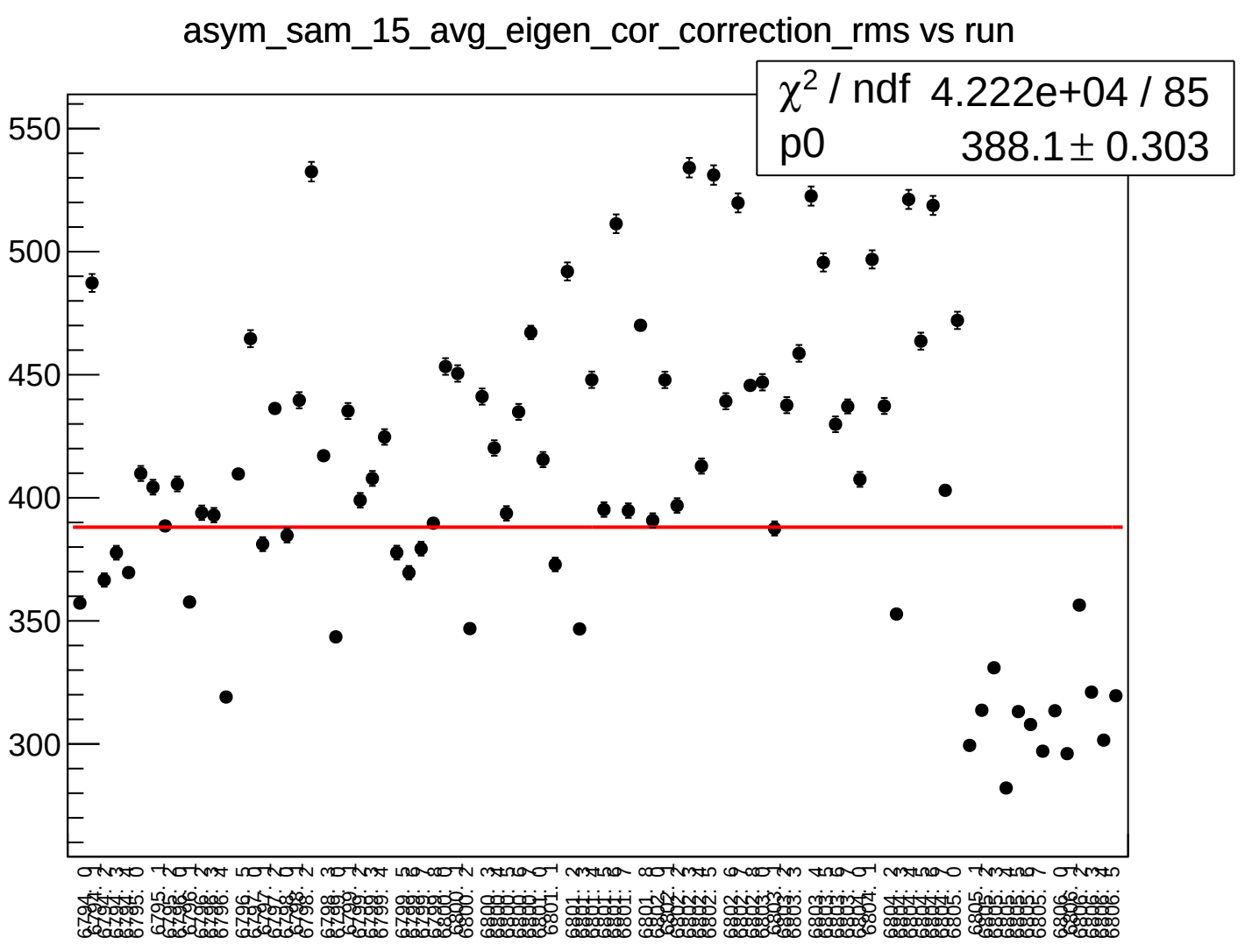

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 80.03 / 85
p0 −70.23 ± 77.69
pull
Entries 86
Mean 2081
Std Dev 0

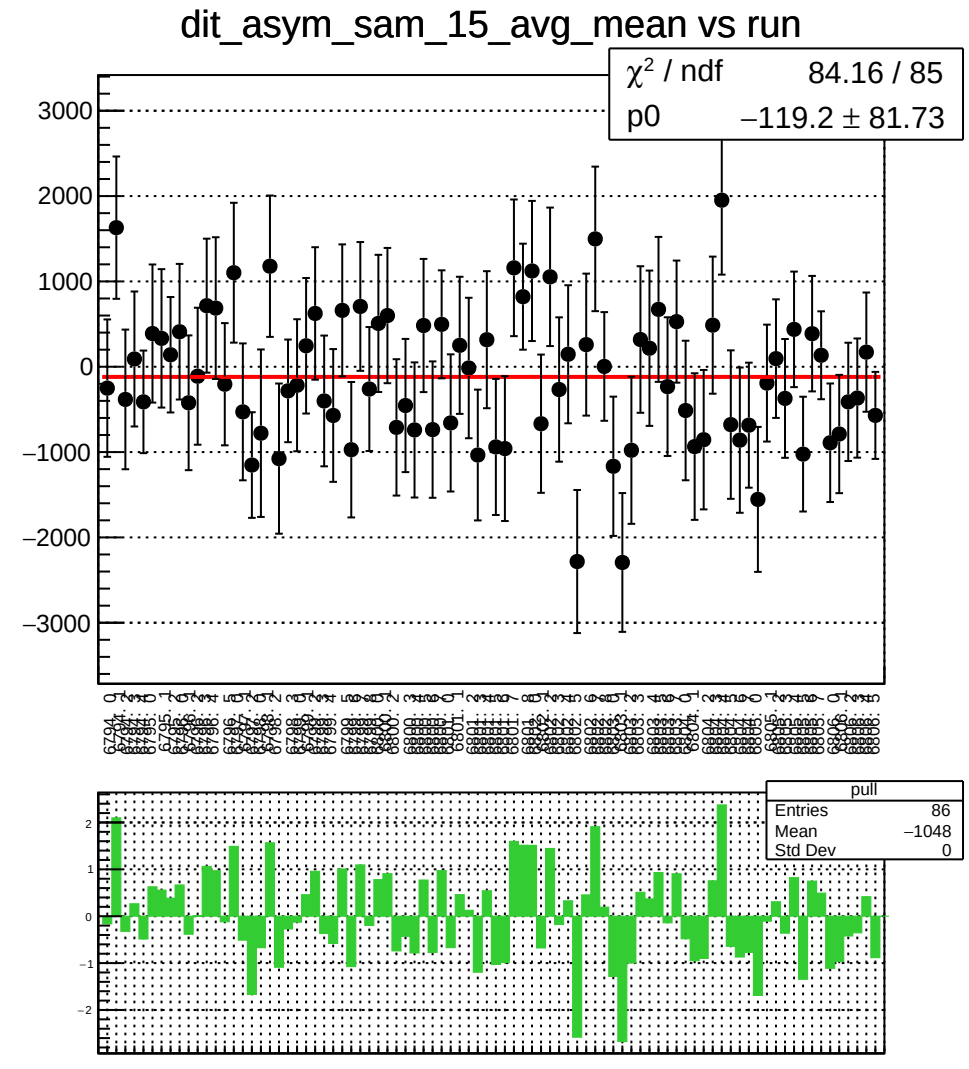

pull1D
Entries 86
Mean −0.002257
Std Dev 0.9647

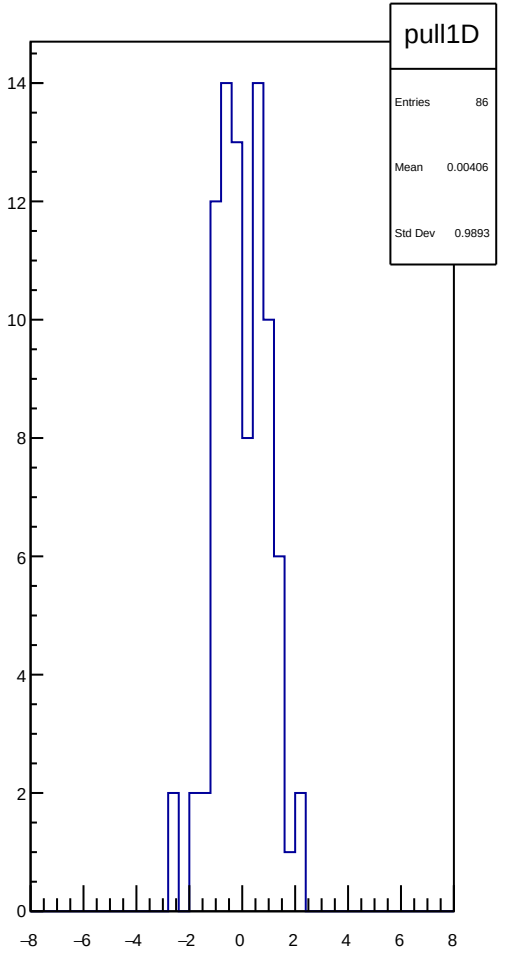

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 7660 / 85
p0 71.09 ± 0.05494
85
80
75
70
65
60

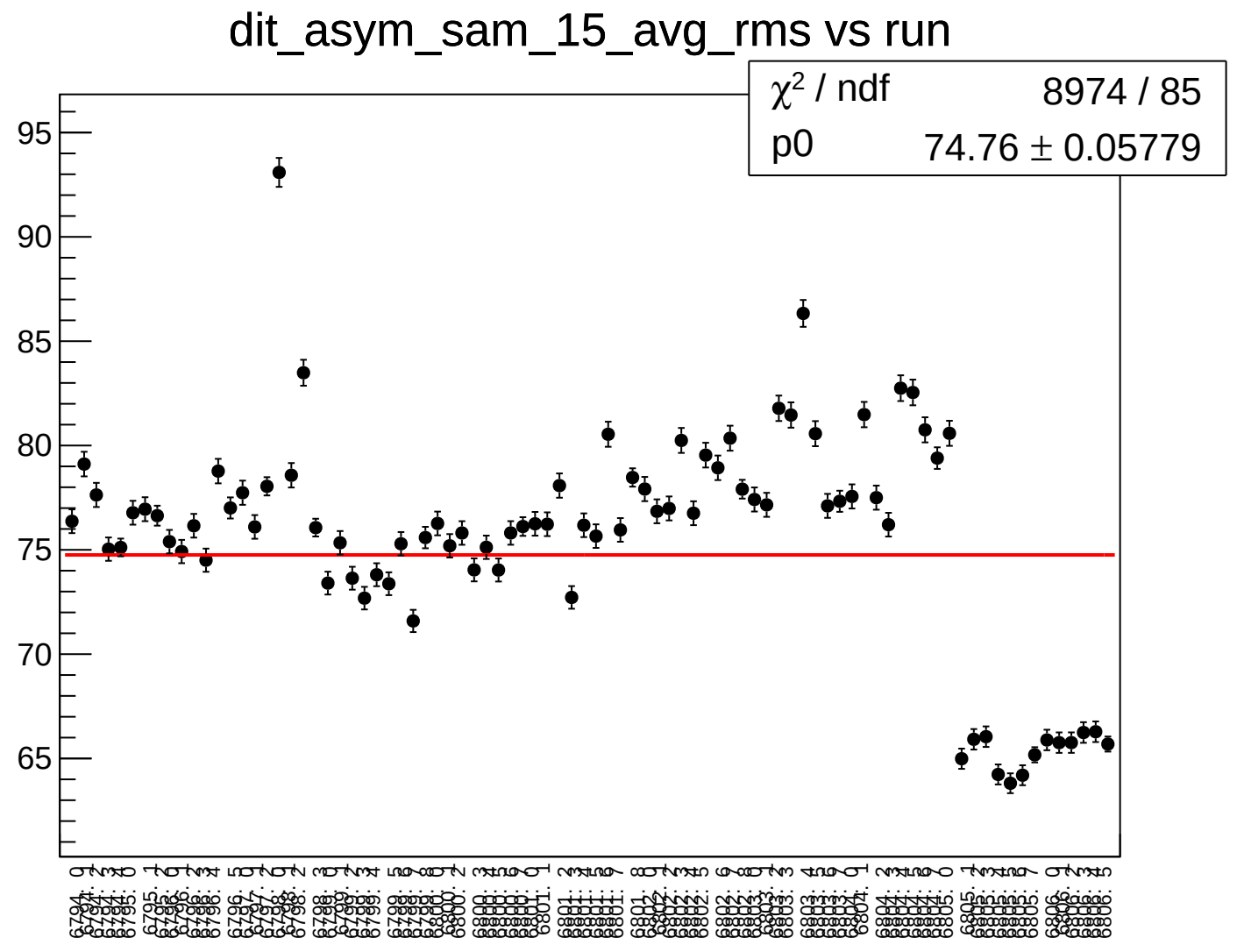

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 67.48 / 85
p0 −552.4 ± 428.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −113.7
Std Dev 0
2
1
0
−1
−2
−3

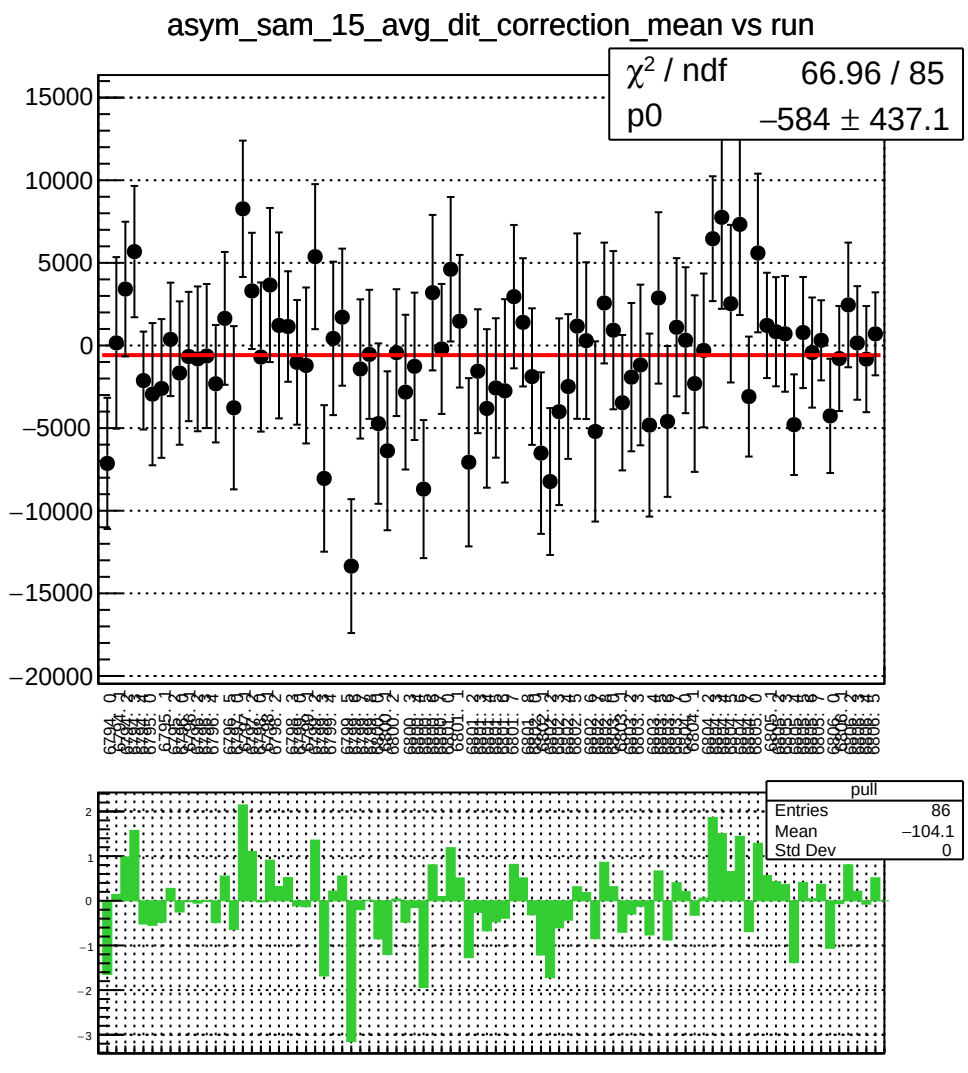

pull1D
Entries 86
Mean −0.01127
Std Dev 0.8857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

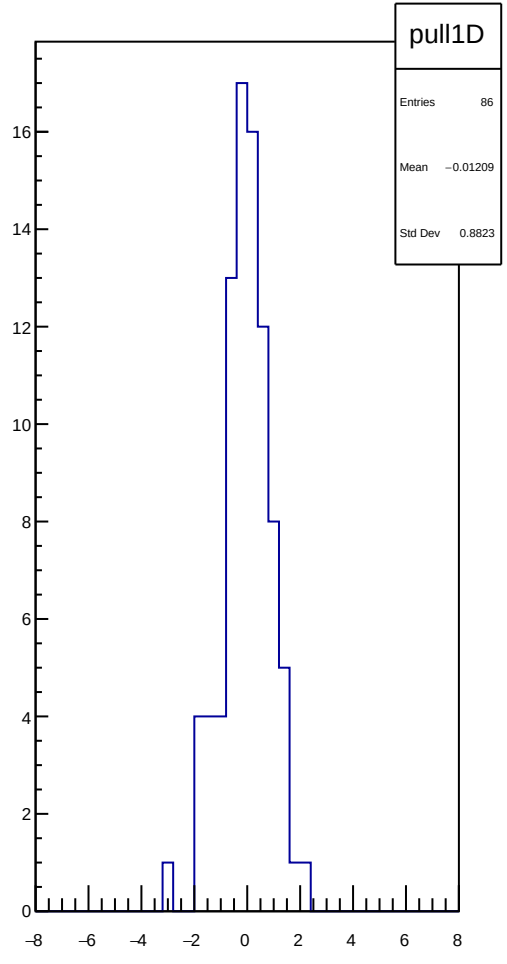

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.222e+04 / 85
p0 388.1 ± 0.303
550
500
450
400
350
300

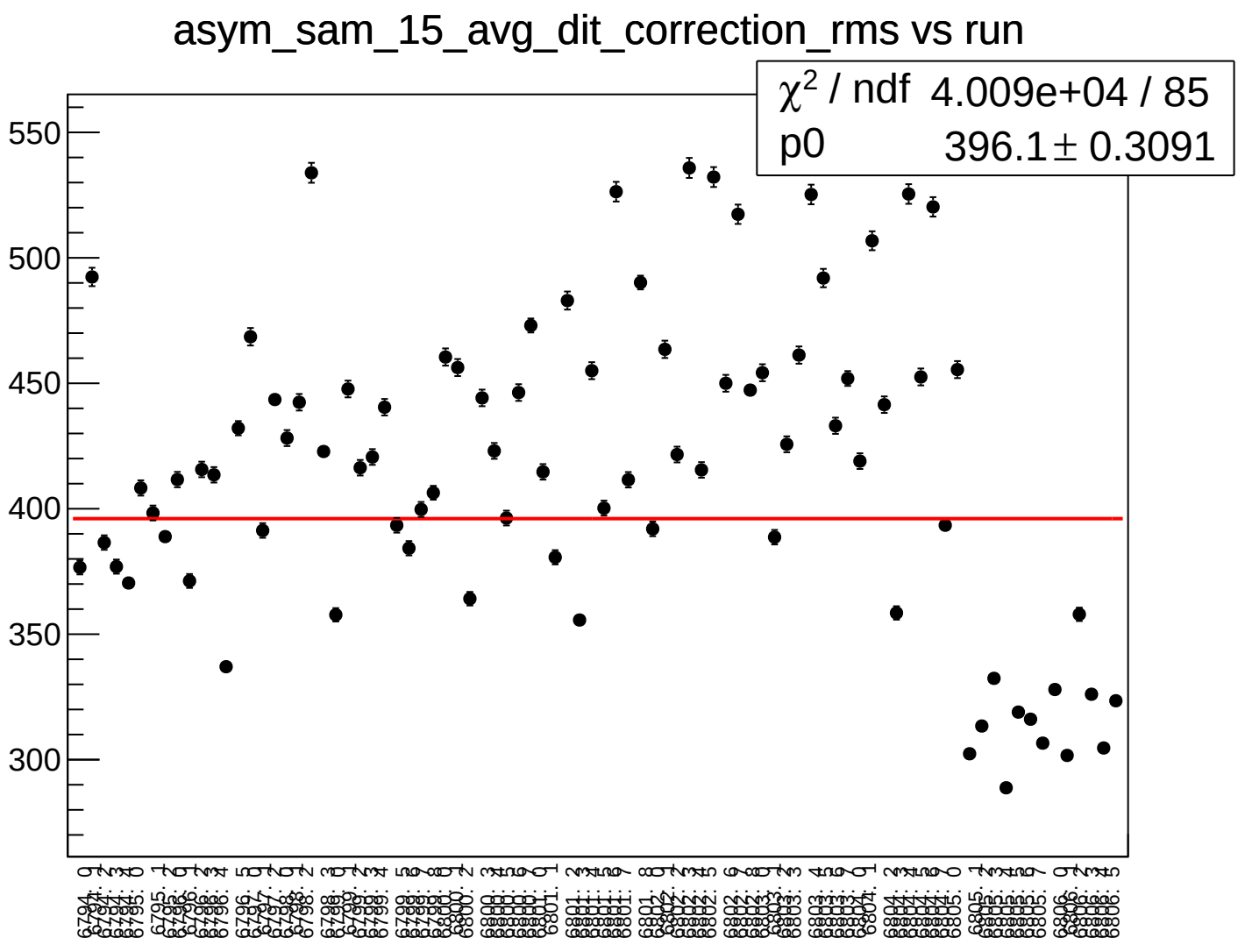

dit_asym_sam_15_avg_mean vs run
χ² / ndf 84.16 / 85
p0 −119.2 ± 81.73
pull
Entries 86
Mean −1048
Std Dev 0

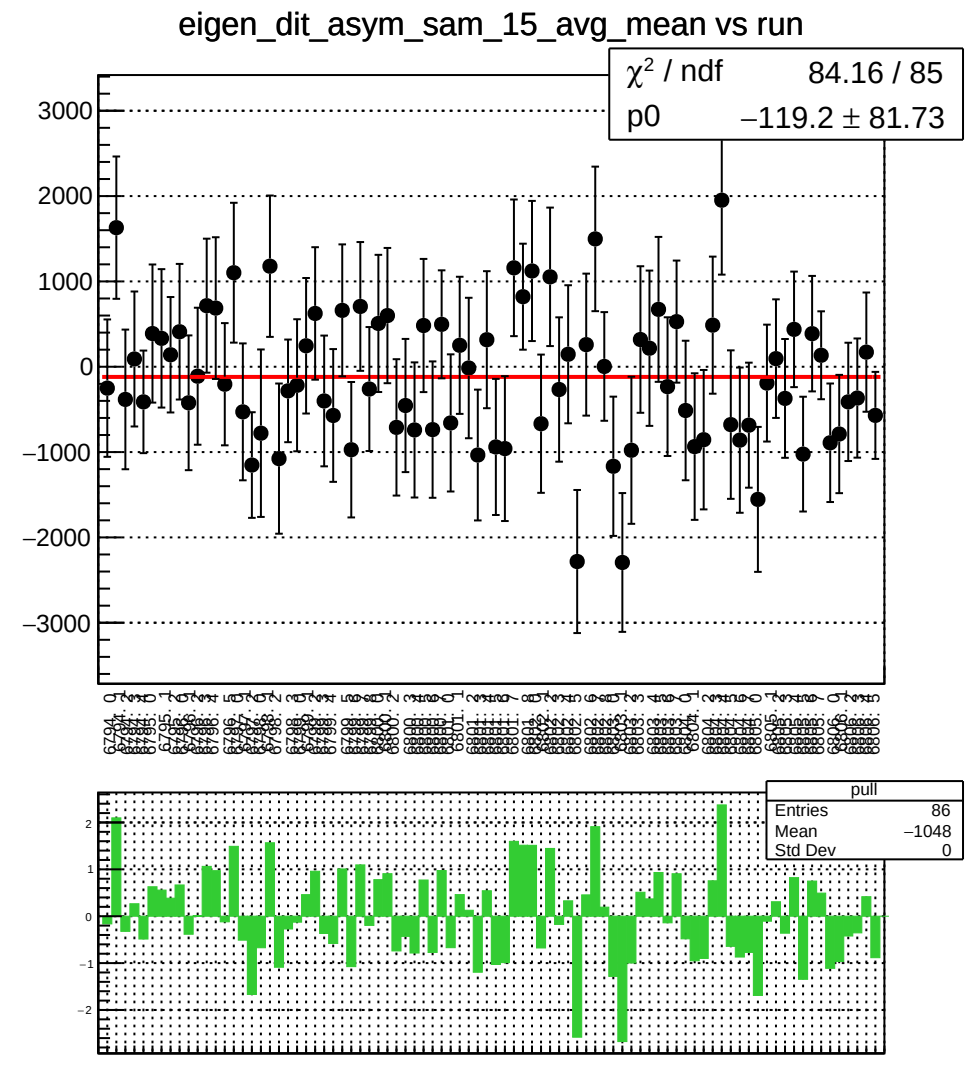

pull1D
Entries 86
Mean 0.00406
Std Dev 0.9893

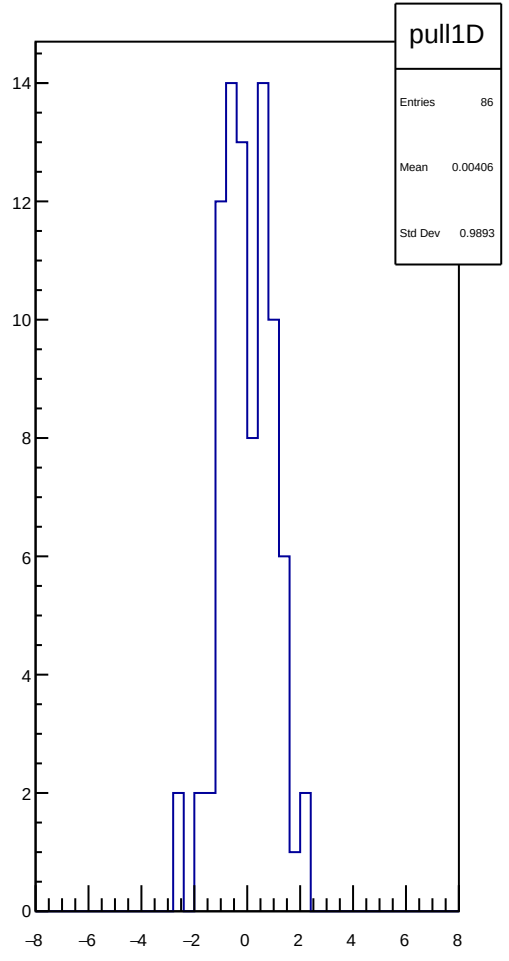

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 8974 / 85
p0 74.76 ± 0.05779
95
90
85
80
75
70
65

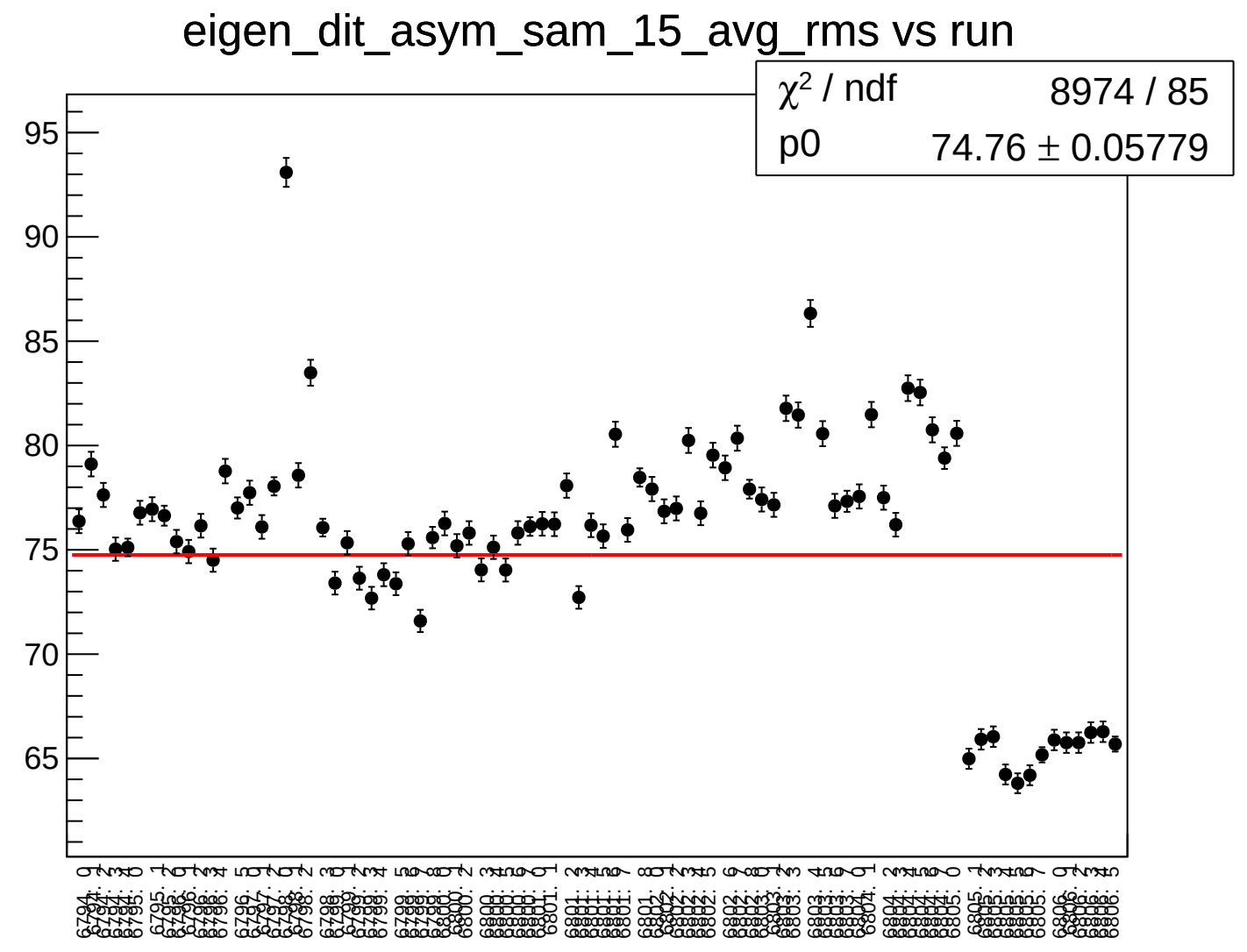

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 66.96 / 85
p0 −584 ± 437.1
pull
Entries 86
Mean −104.1
Std Dev 0

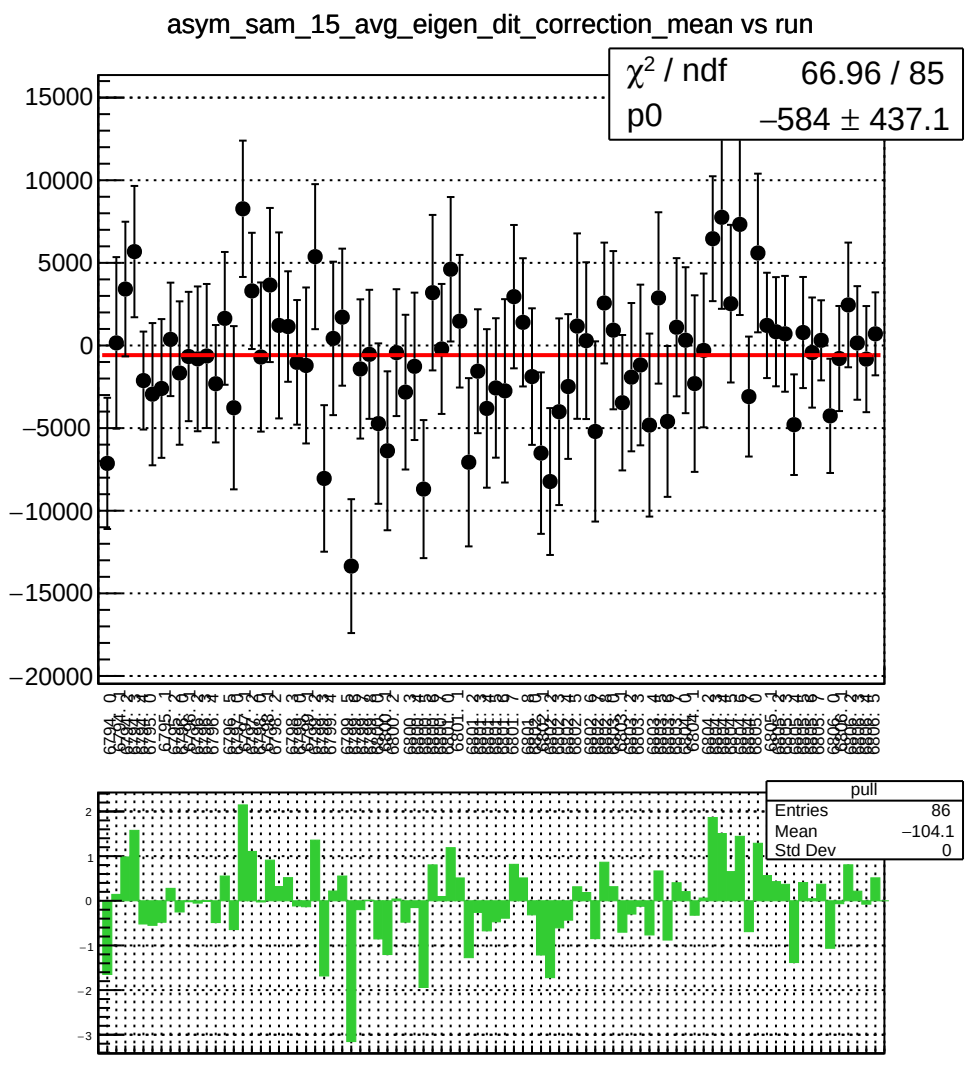

pull1D
Entries 86
Mean −0.01209
Std Dev 0.8823

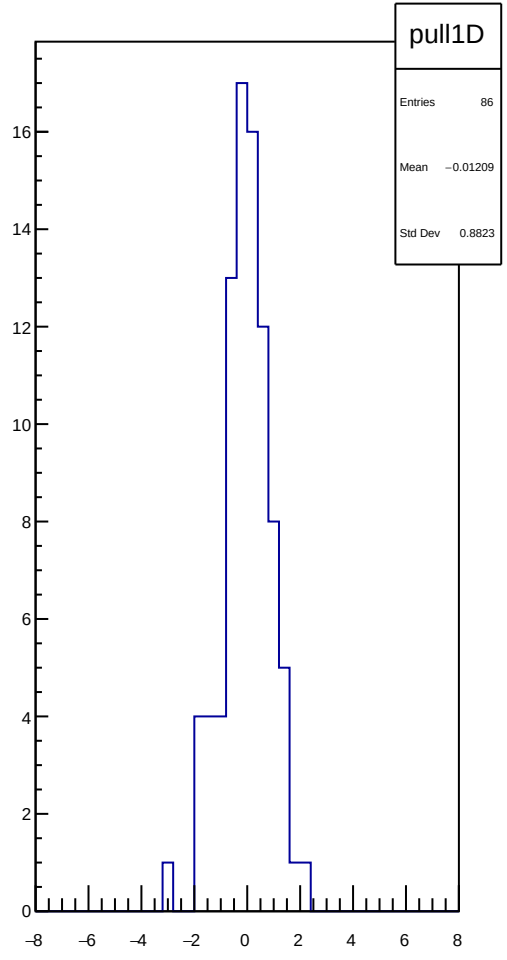

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 4.009e+04 / 85
p0 396.1 ± 0.3091
550
500
450
400
350
300

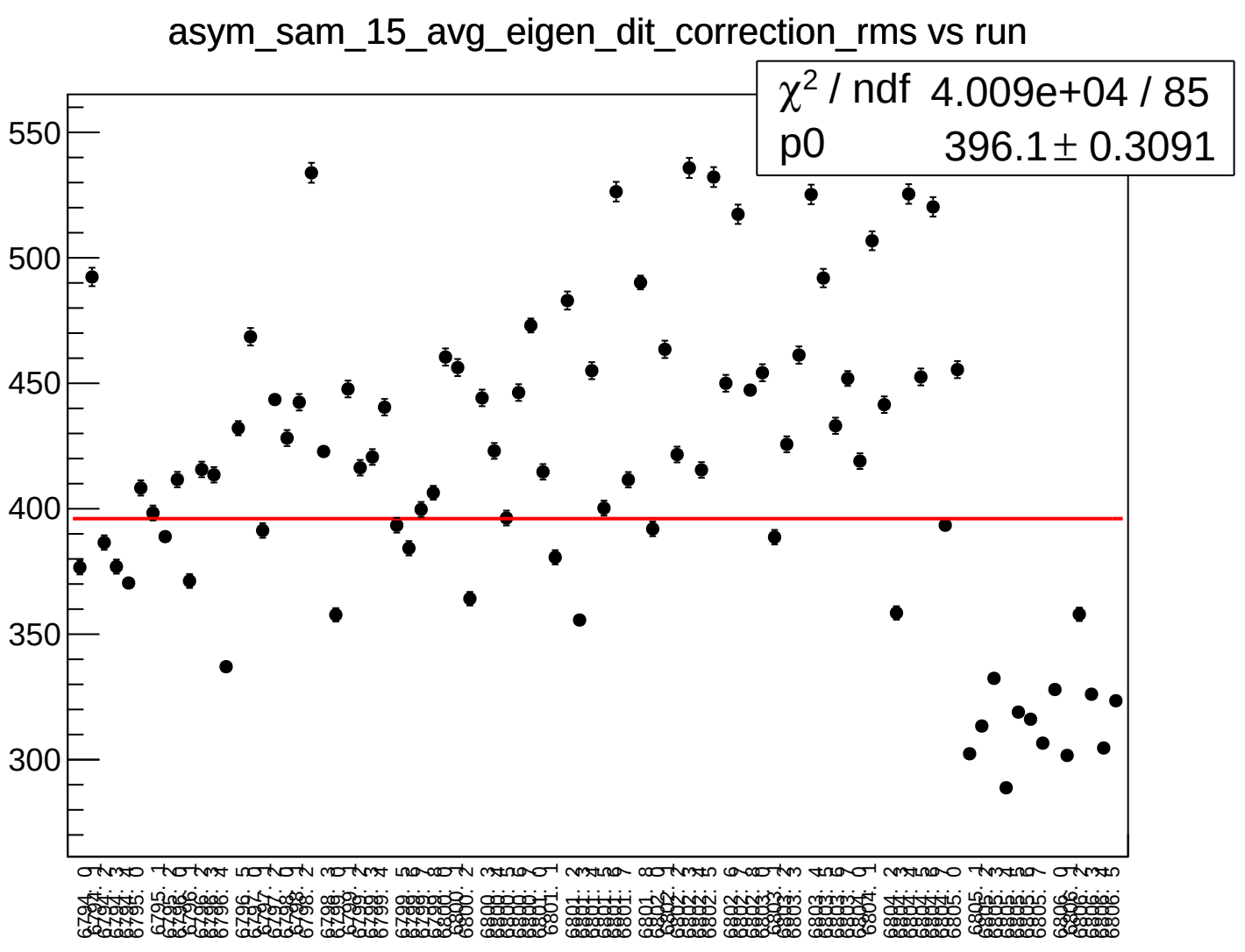

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 84.16 / 85
p0 −119.2 ± 81.73
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −1048
Std Dev 0
2
1
0
−1
−2

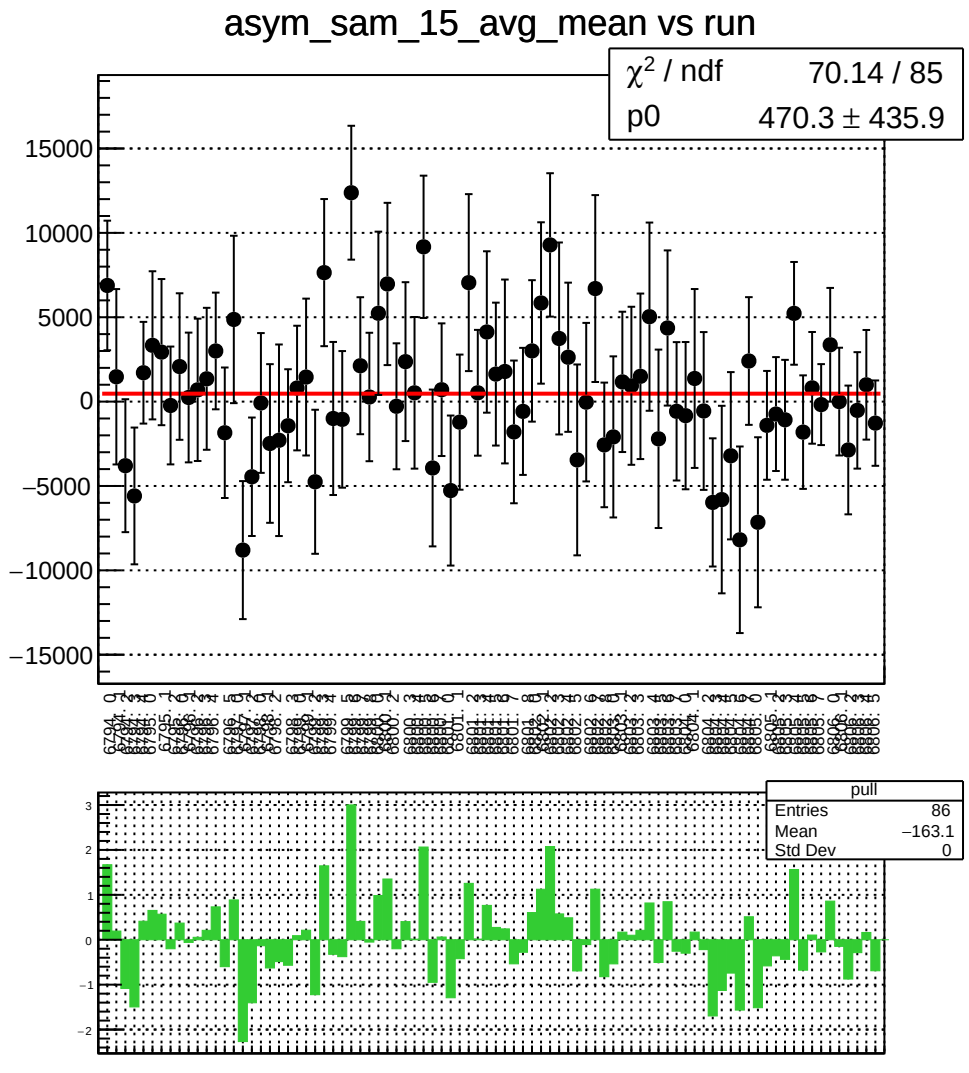

pull1D
Entries 86
Mean 0.00406
Std Dev 0.9893
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

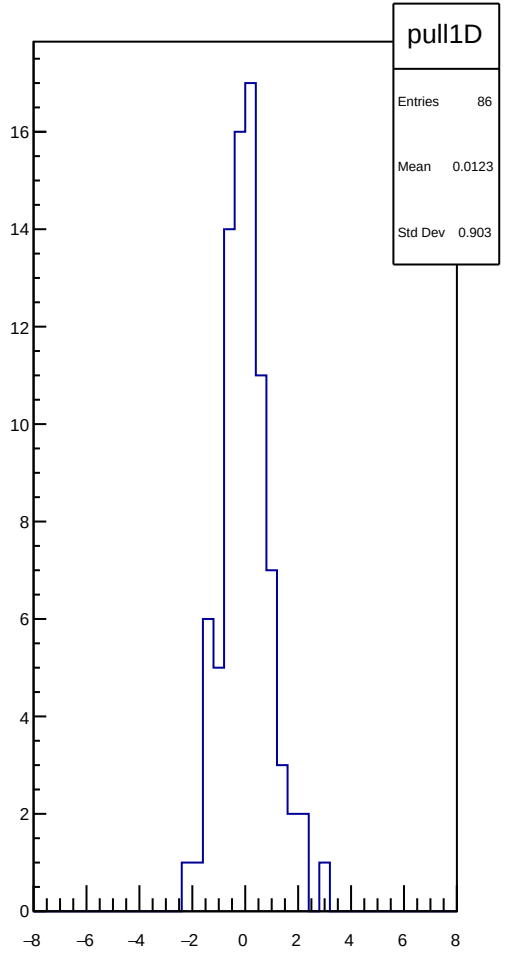

eigen_dit_asym_sam_15_avg_rms vs run
χ² / ndf 8974 / 85
p0 74.76 ± 0.05779
95
90
85
80
75
70
65

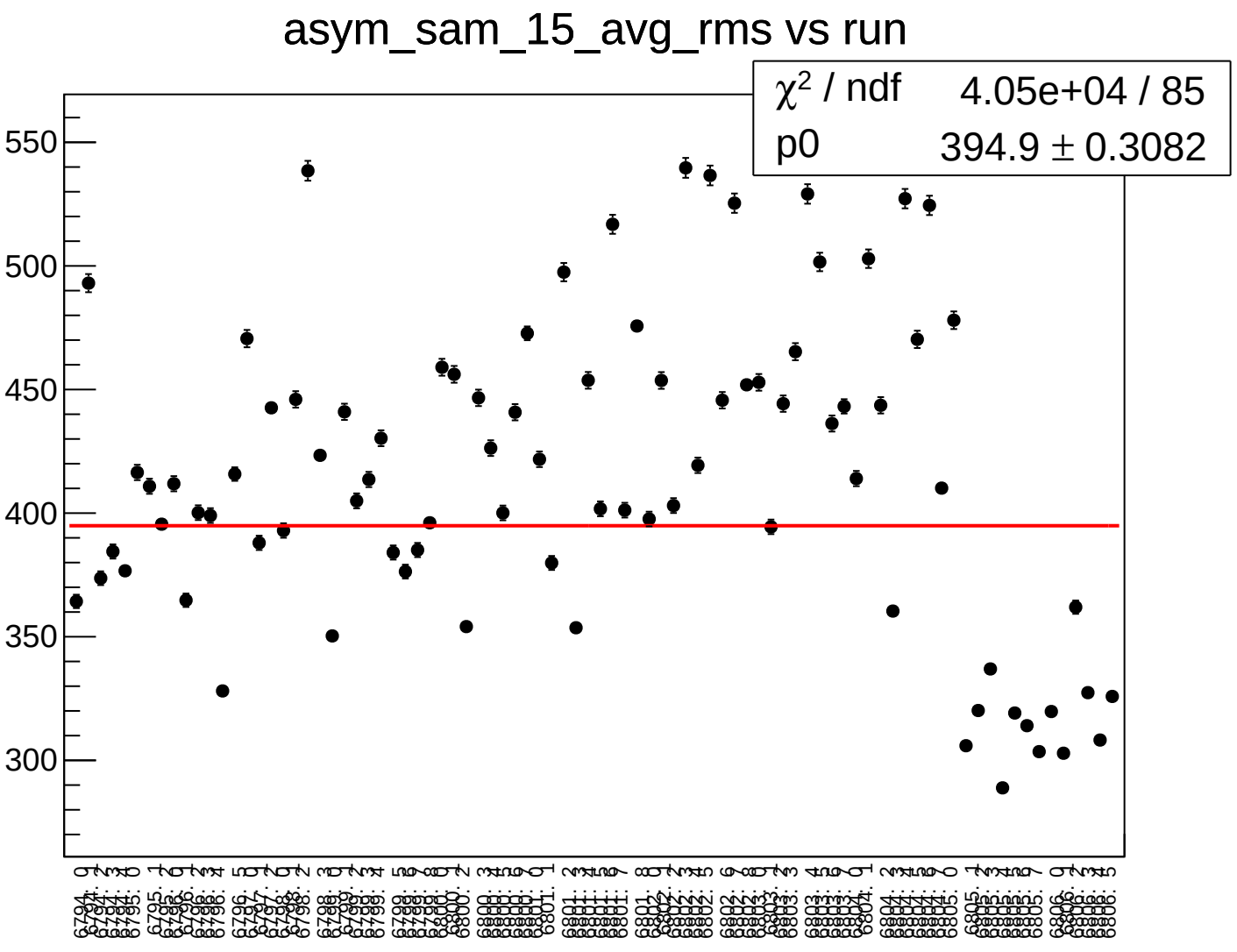

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.96 / 85
p0 −584 ± 437.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 86
Mean −104.1
Std Dev 0
2
1
0
−1
−2
−3

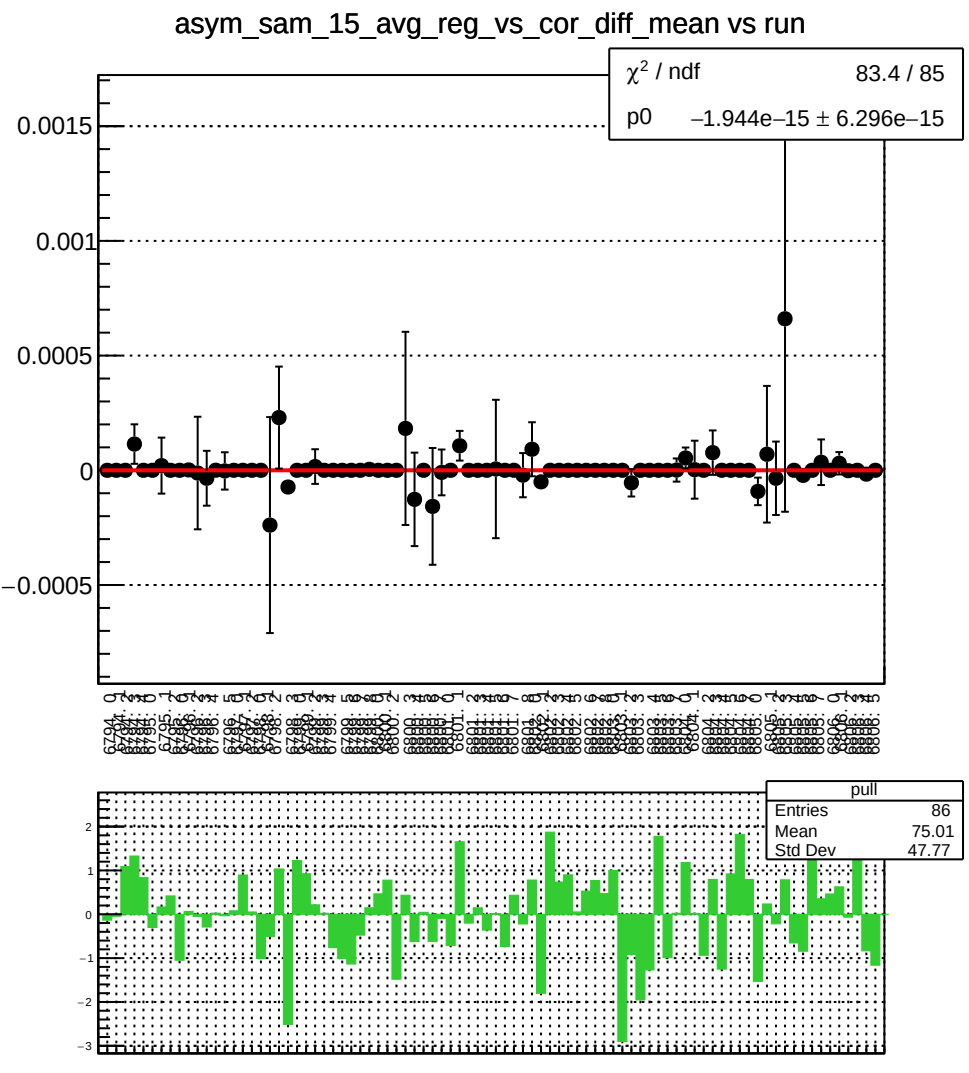

pull1D
Entries 86
Mean −0.01209
Std Dev 0.8823
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

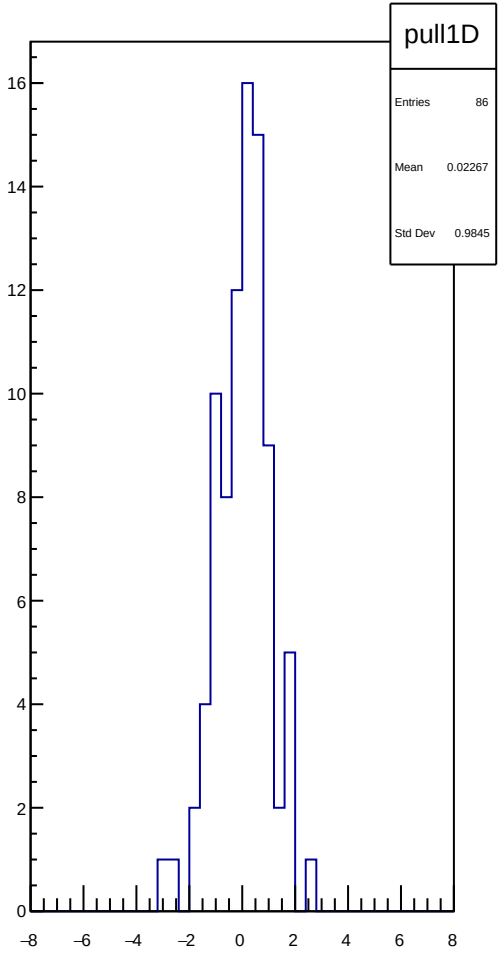

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 4.009e+04 / 85
p0 396.1 ± 0.3091
550
500
450
400
350
300

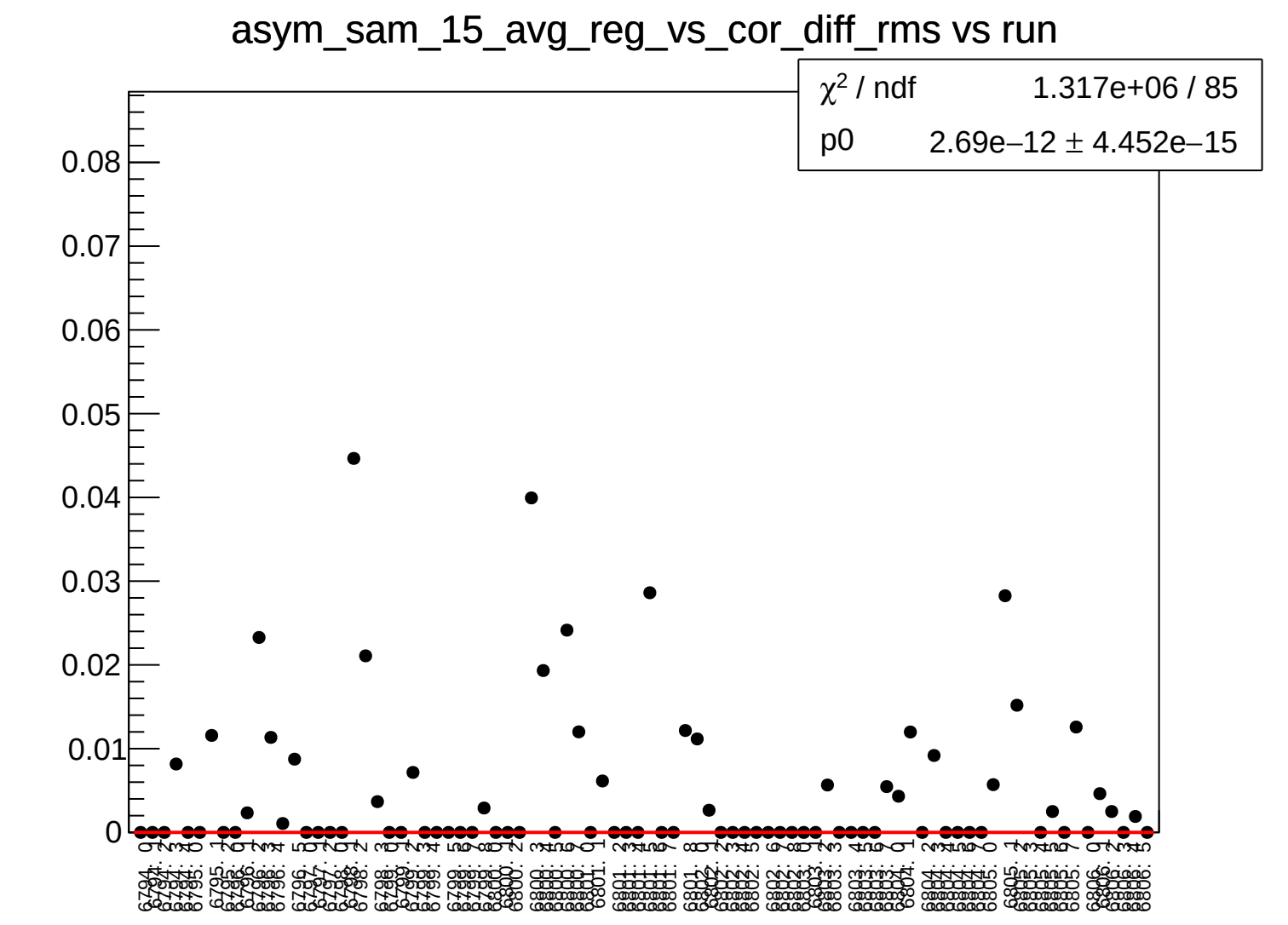

asym_sam_15_avg_mean vs run
χ² / ndf 70.14 / 85
p0 470.3 ± 435.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −163.1
Std Dev 0
3
2
1
0
−1
−2

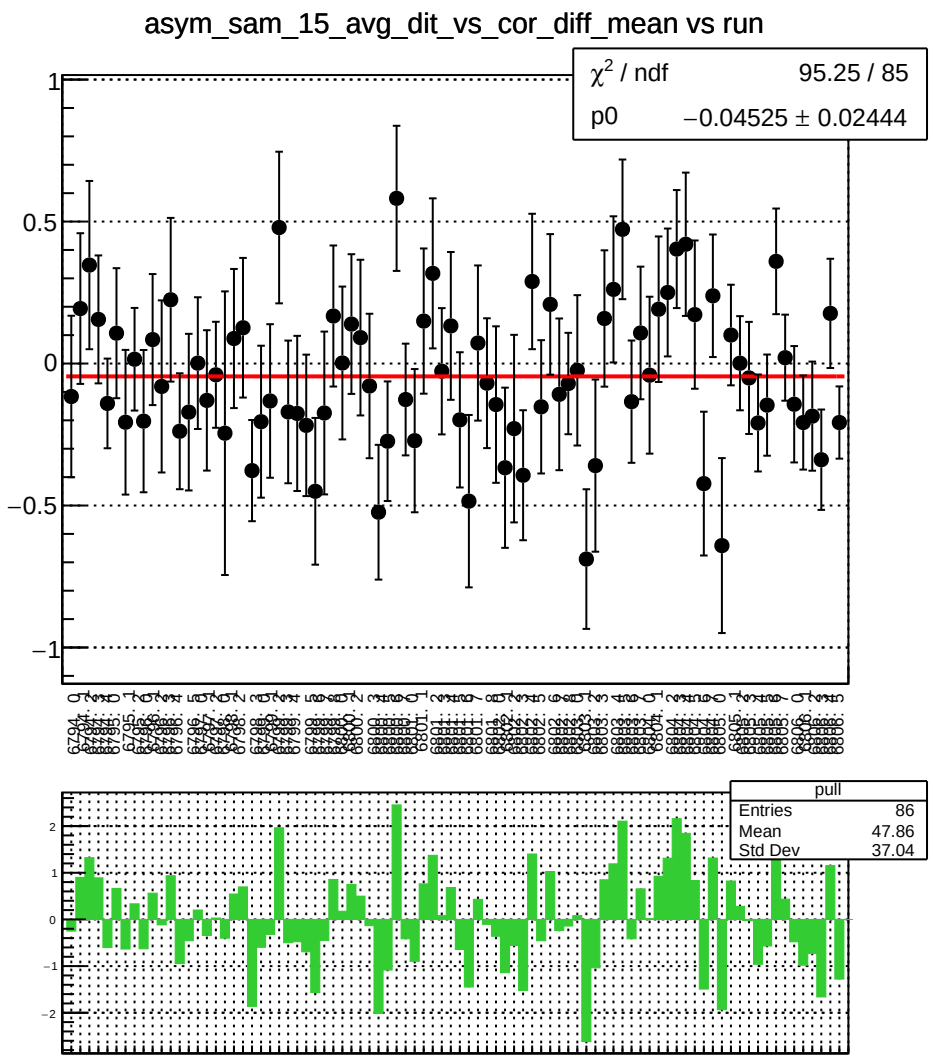

pull1D
Entries 86
Mean 0.0123
Std Dev 0.903
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

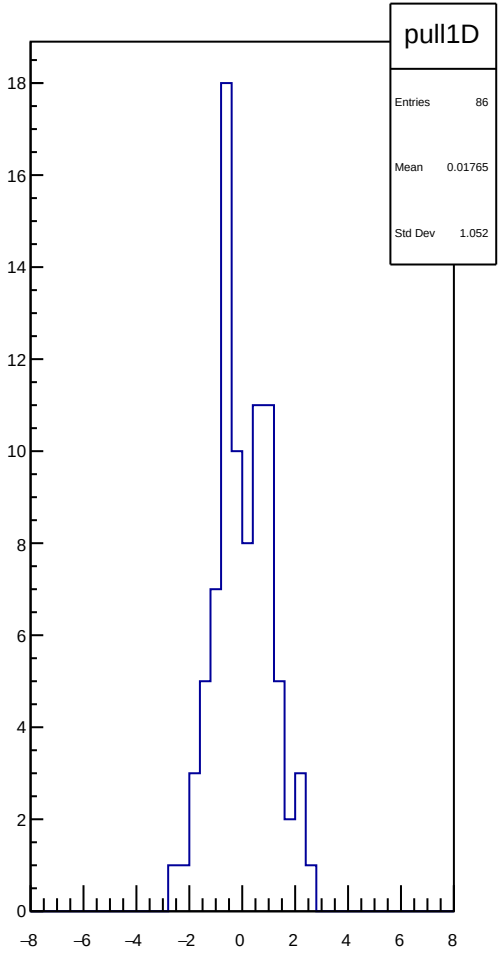

asym_sam_15_avg_rms vs run
χ² / ndf 4.05e+04 / 85
p0 394.9 ± 0.3082
550
500
450
400
350
300

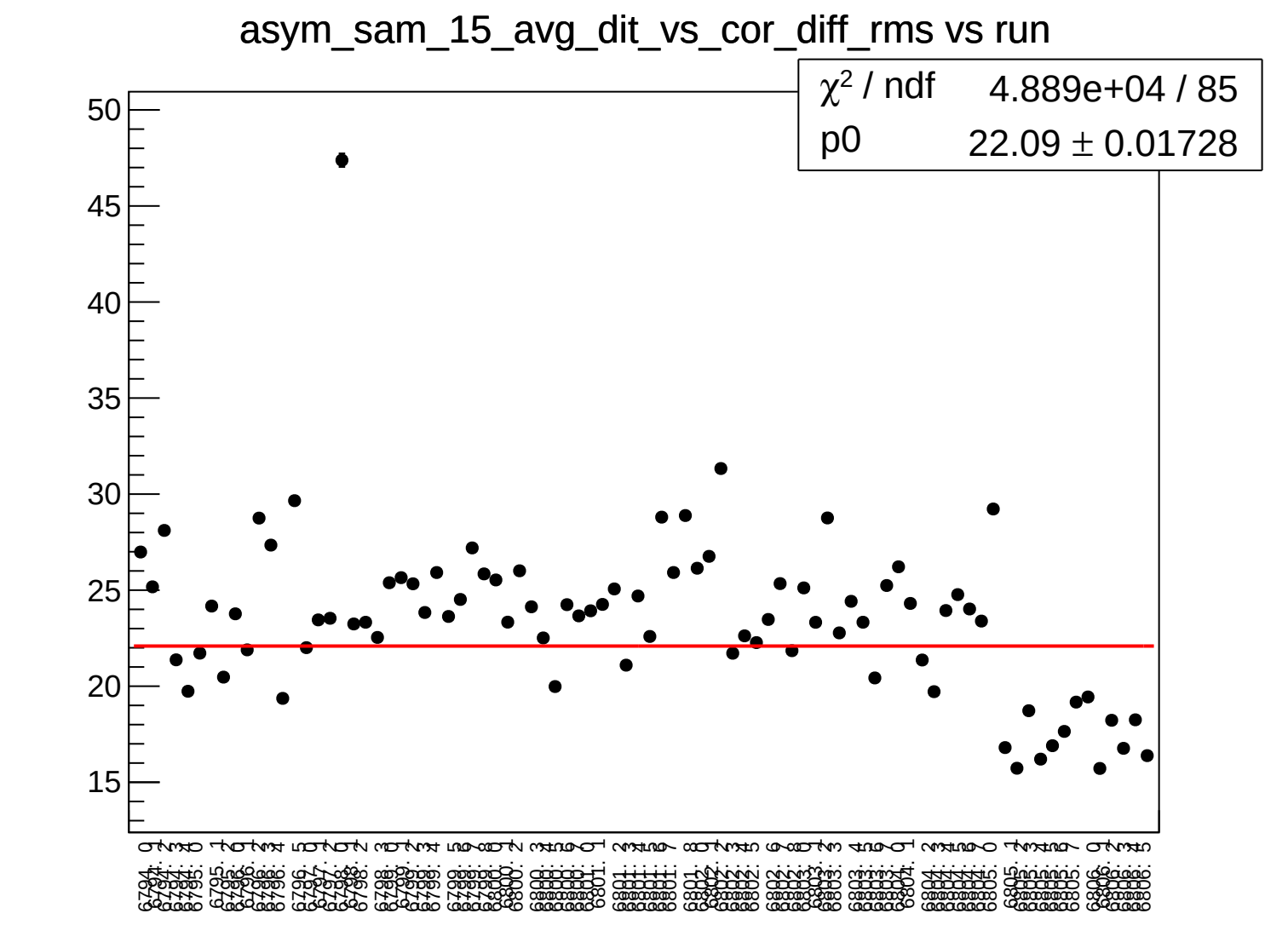

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.4 / 85
p0 −1.944e−15 ± 6.296e−15
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 86
Mean 75.01
Std Dev 47.77
2
1
0
−1
−2
−3

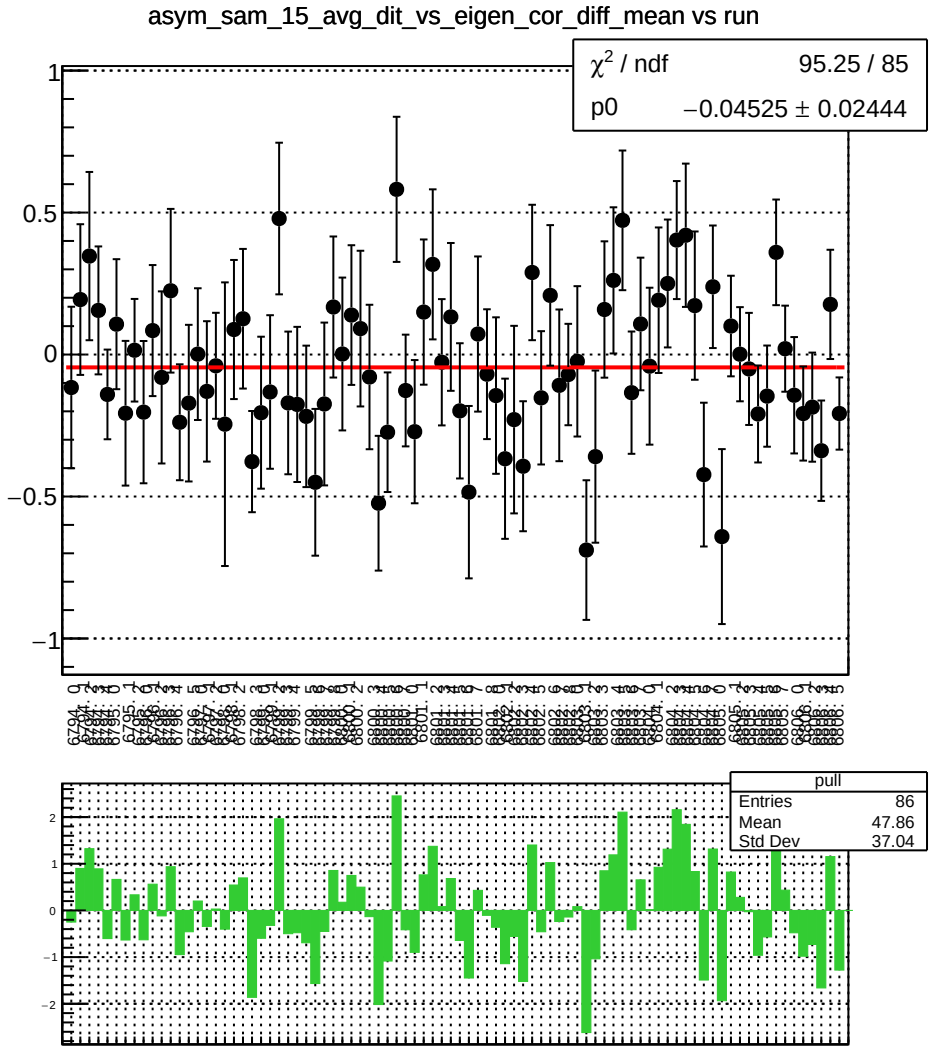

pull1D
Entries 86
Mean 0.02267
Std Dev 0.9845
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

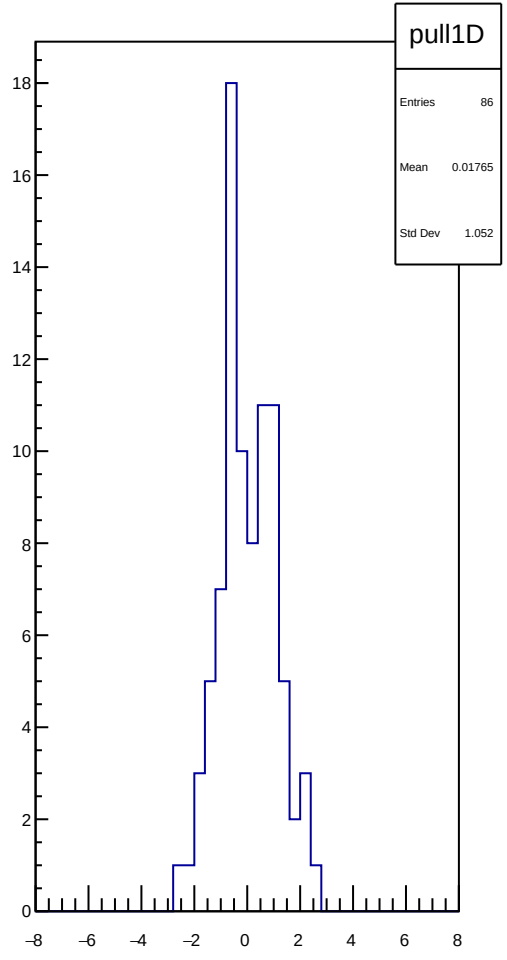

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.317e+06 / 85
p0 2.69e−12 ± 4.452e−15
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

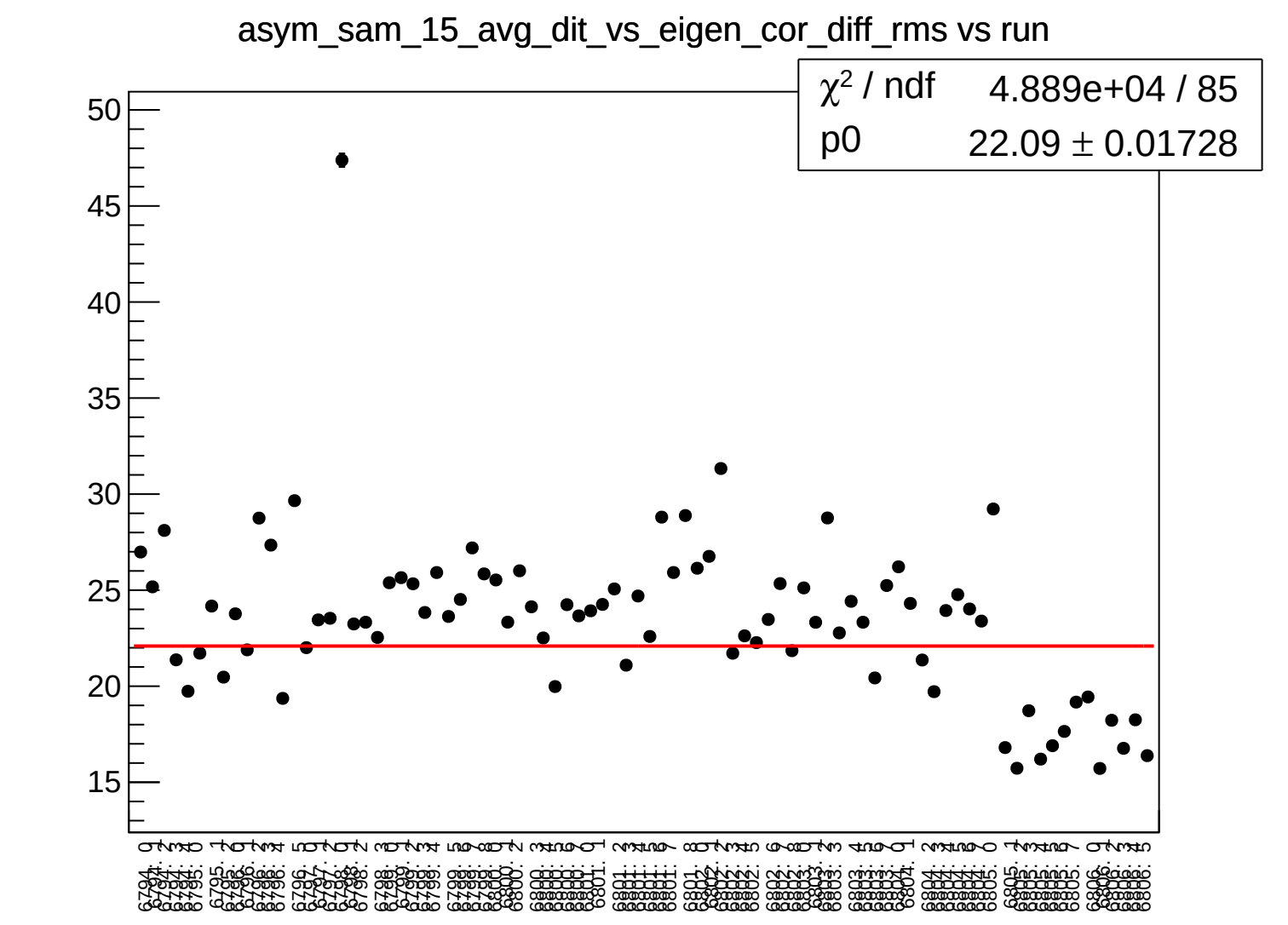

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.04525 ± 0.02444
pull
Entries 86
Mean 47.86
Std Dev 37.04

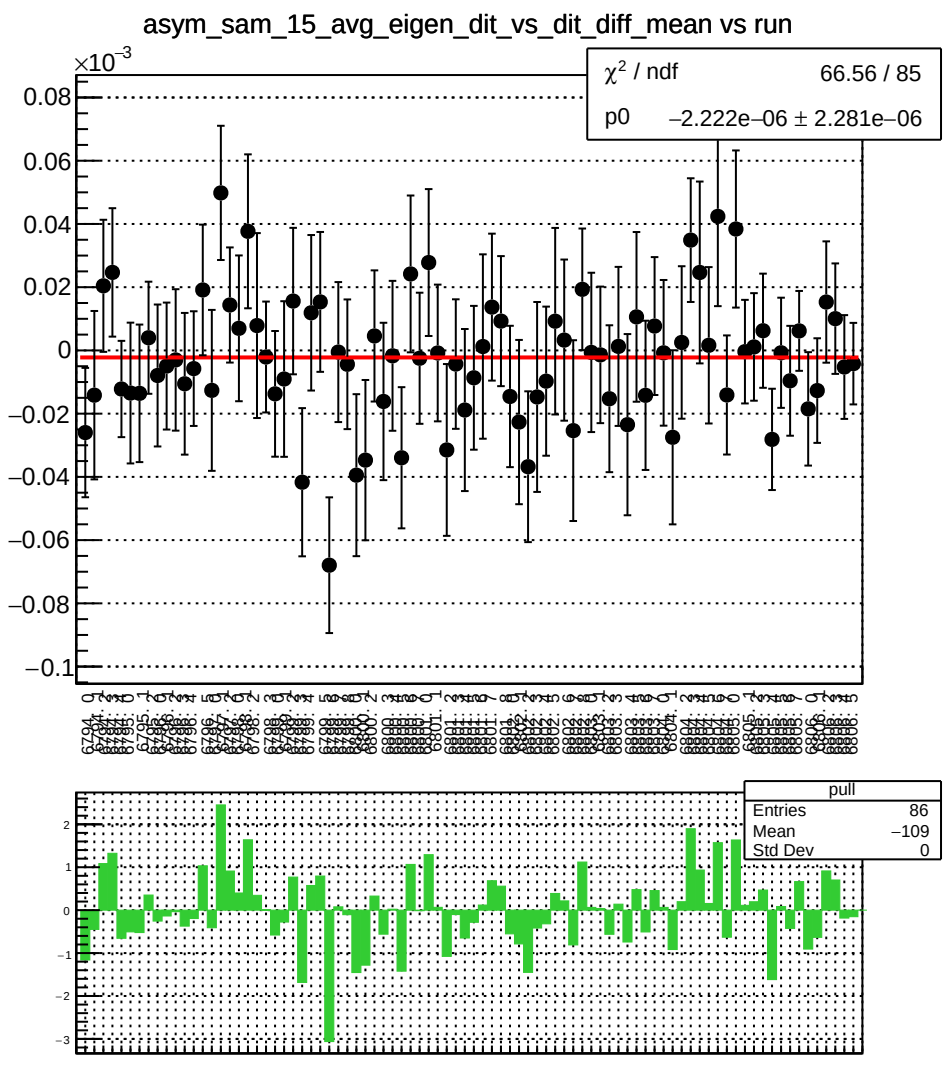

pull1D
Entries 86
Mean 0.01765
Std Dev 1.052

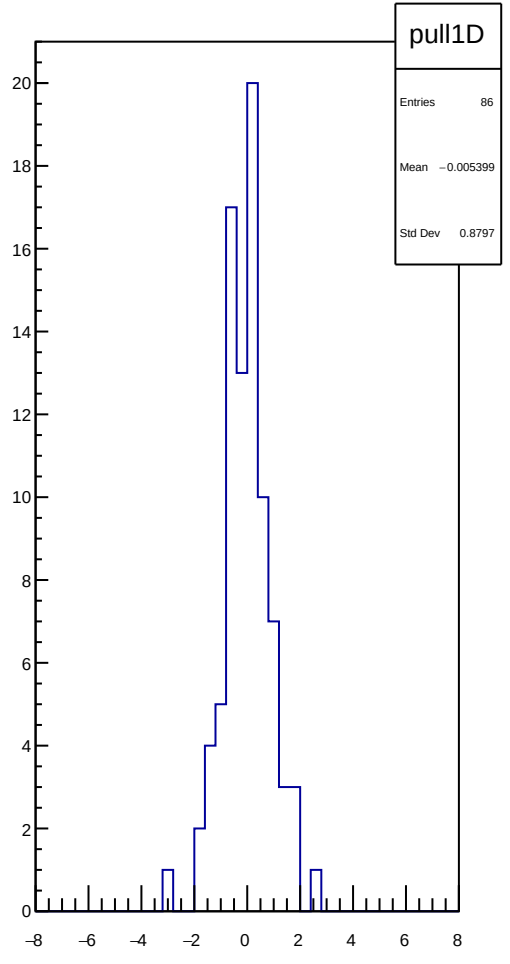

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.889e+04 / 85
p0 22.09 ± 0.01728
50
45
40
35
30
25
20
15

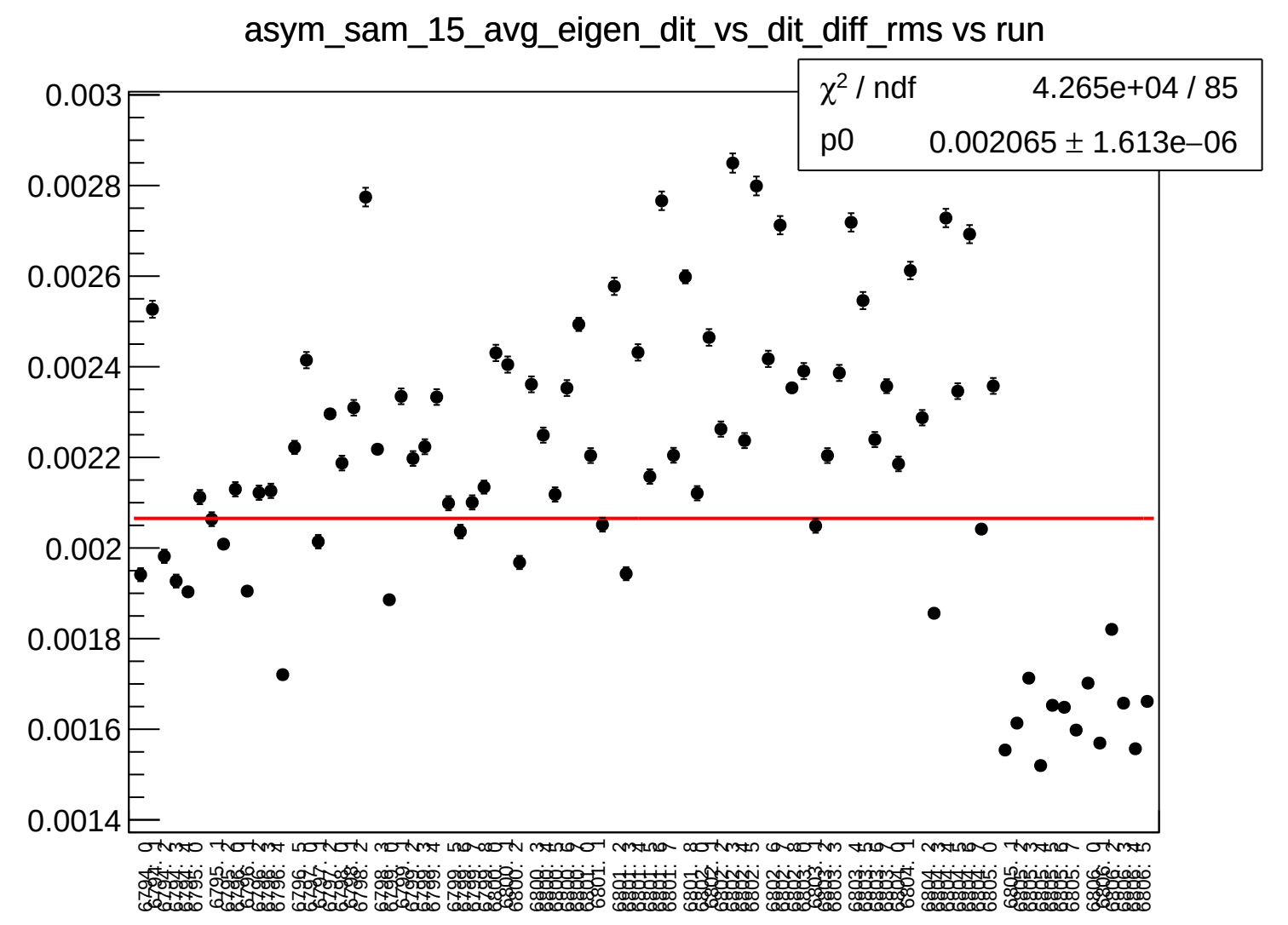

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.04525 ± 0.02444
pull
Entries 86
Mean 47.86
Std Dev 37.04

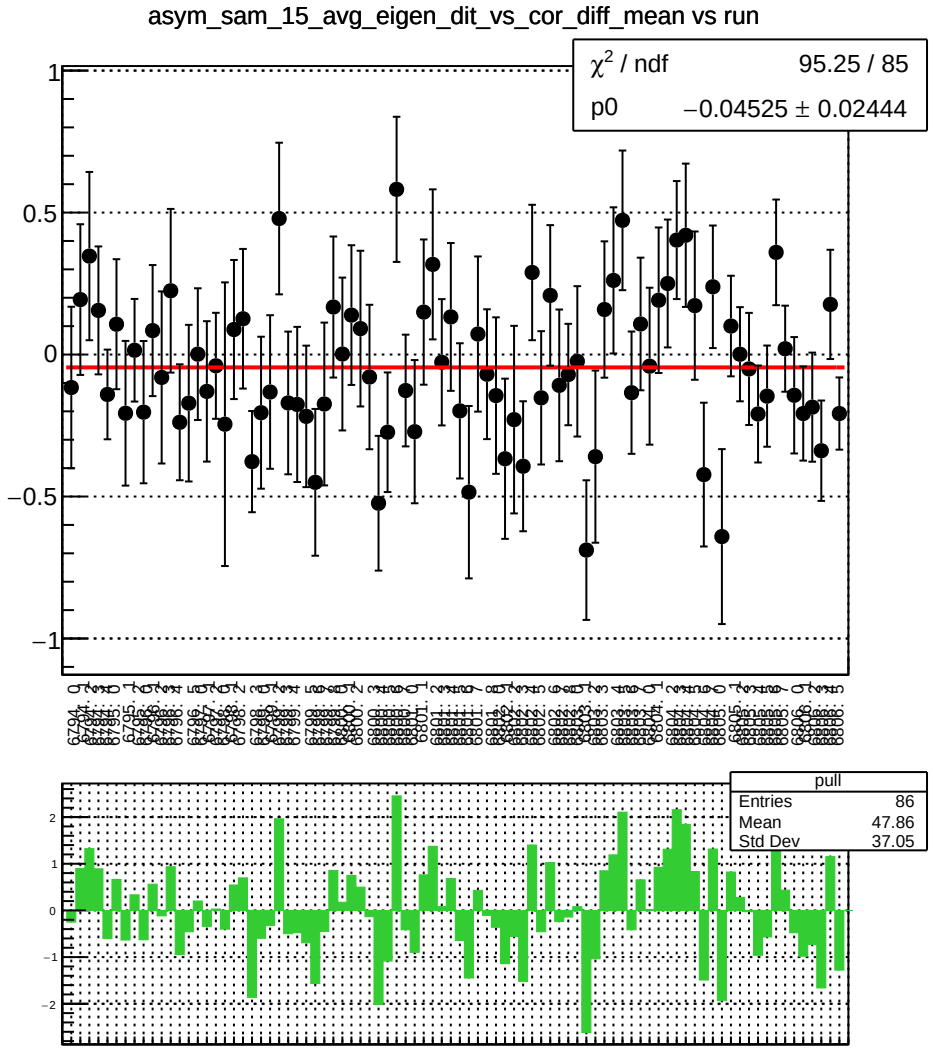

pull1D
Entries 86
Mean 0.01765
Std Dev 1.052

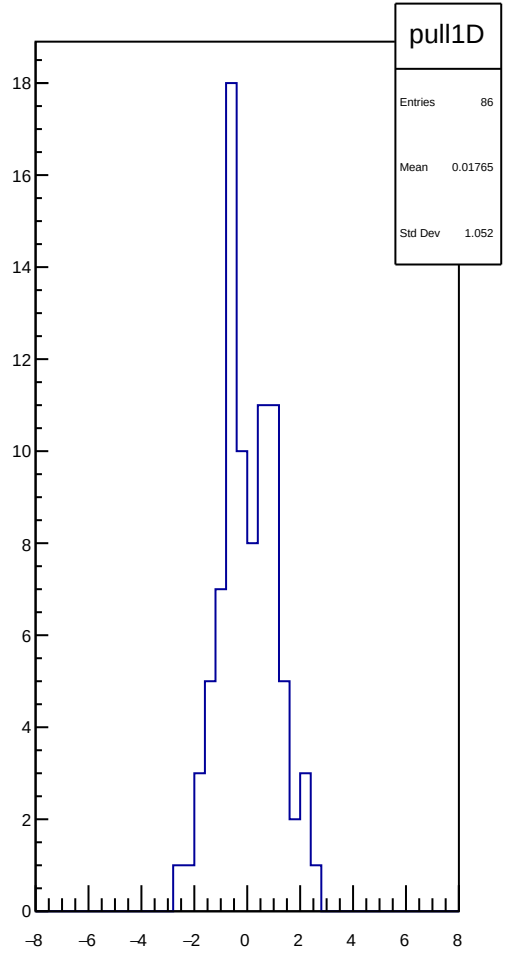

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.889e+04 / 85
p0 22.09 ± 0.01728
50
45
40
35
30
25
20
15

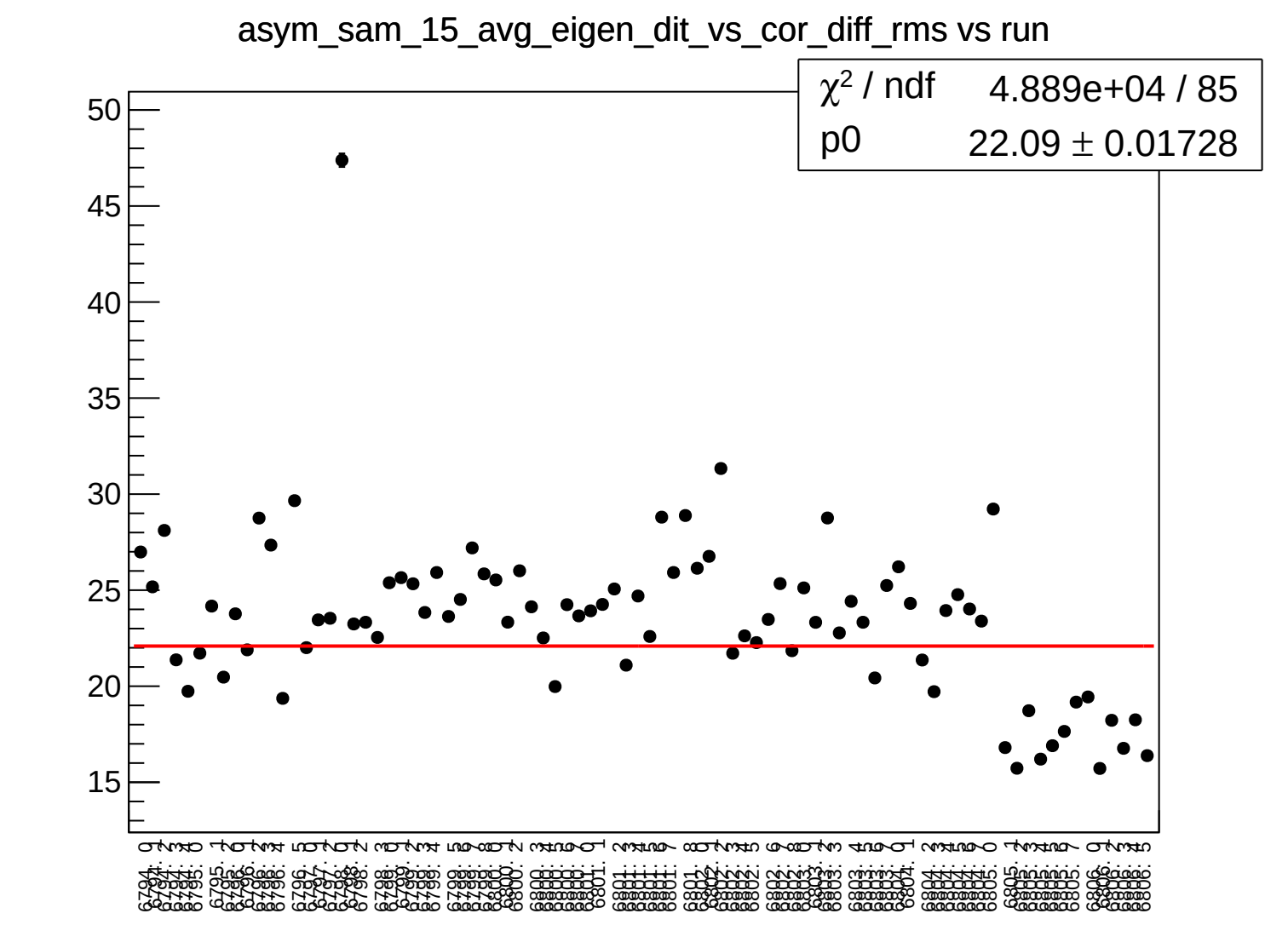

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.56 / 85
p0 −2.222e−06 ± 2.281e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 86
Mean −109
Std Dev 0
2
1
0
−1
−2
−3

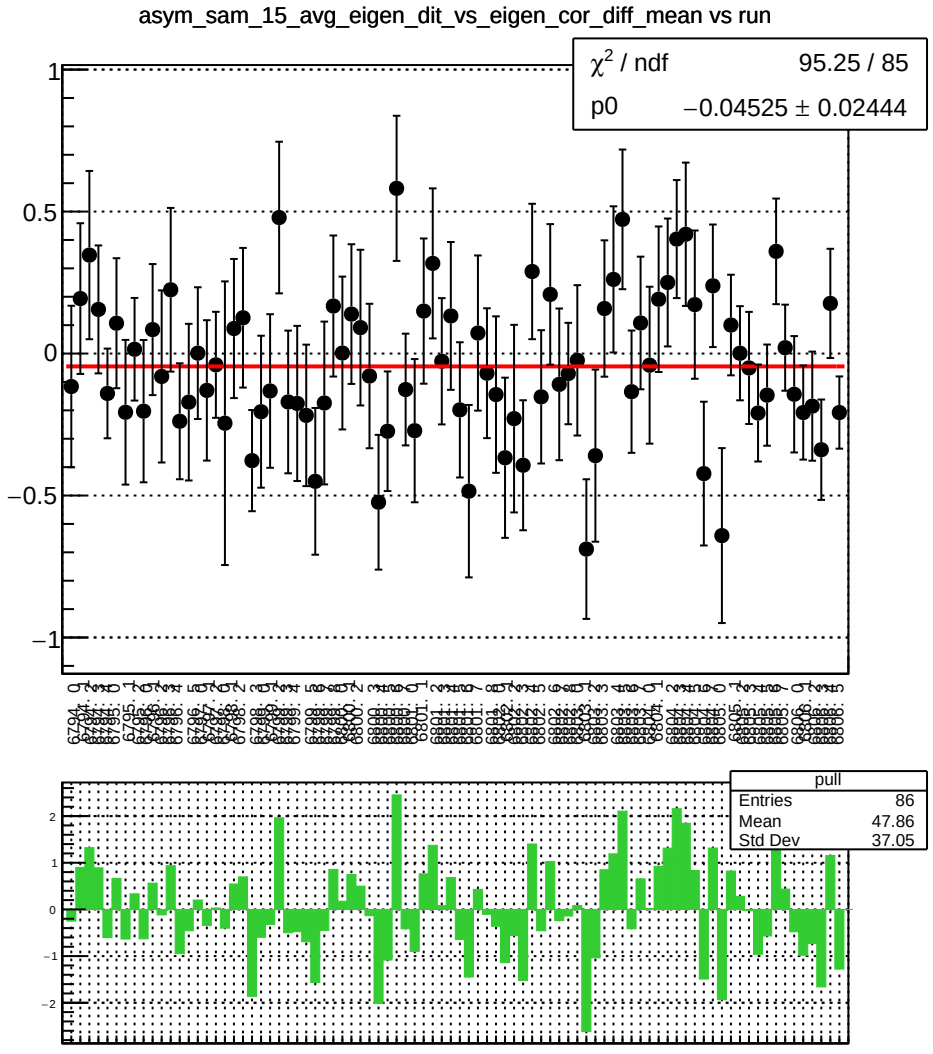

pull1D
Entries 86
Mean −0.005399
Std Dev 0.8797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

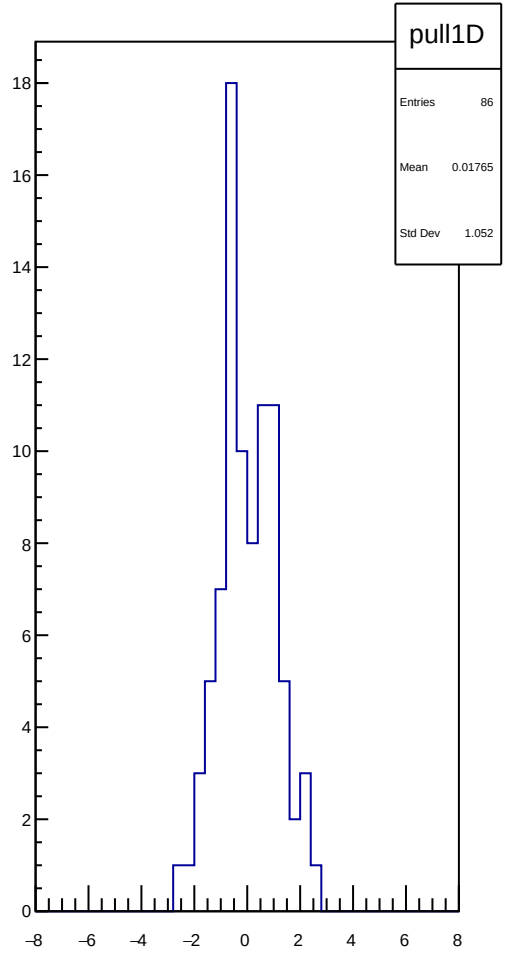

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.265e+04 / 85
p0 0.002065 ± 1.613e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

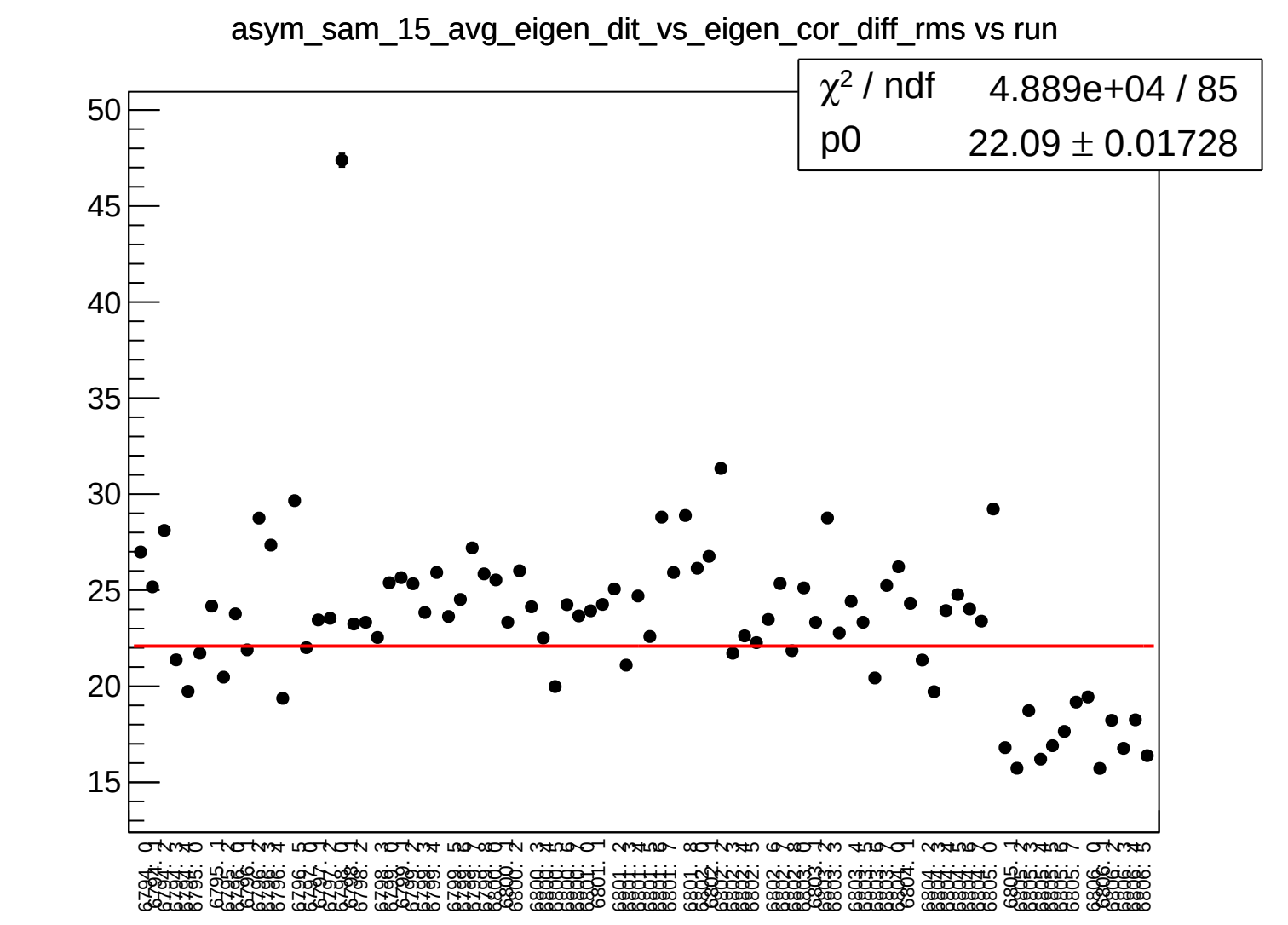

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.04525 ± 0.02444
pull
Entries 86
Mean 47.86
Std Dev 37.05

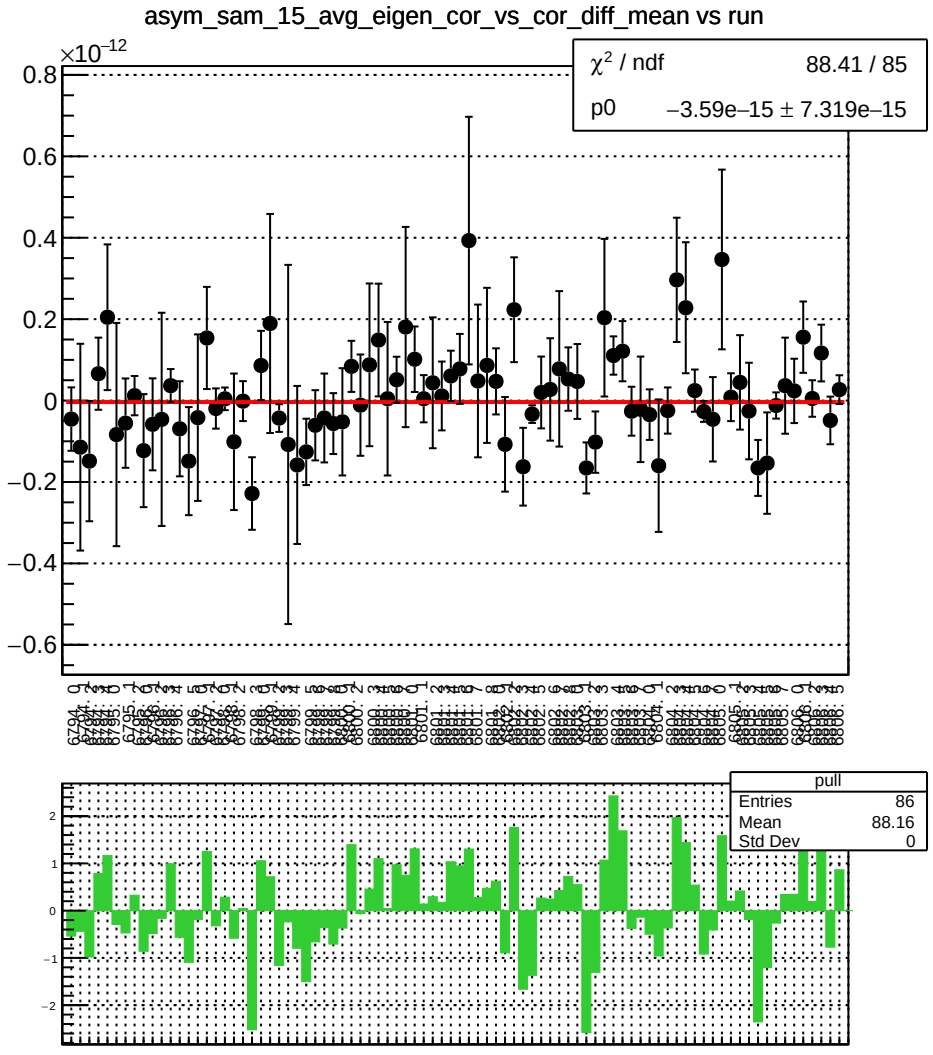

pull1D
Entries 86
Mean 0.01765
Std Dev 1.052

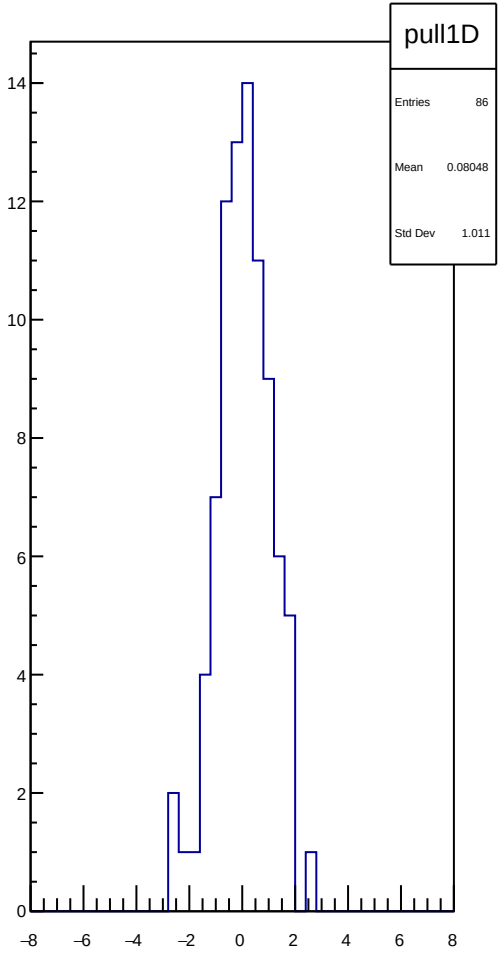

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.889e+04 / 85
p0 22.09 ± 0.01728
50
45
40
35
30
25
20
15

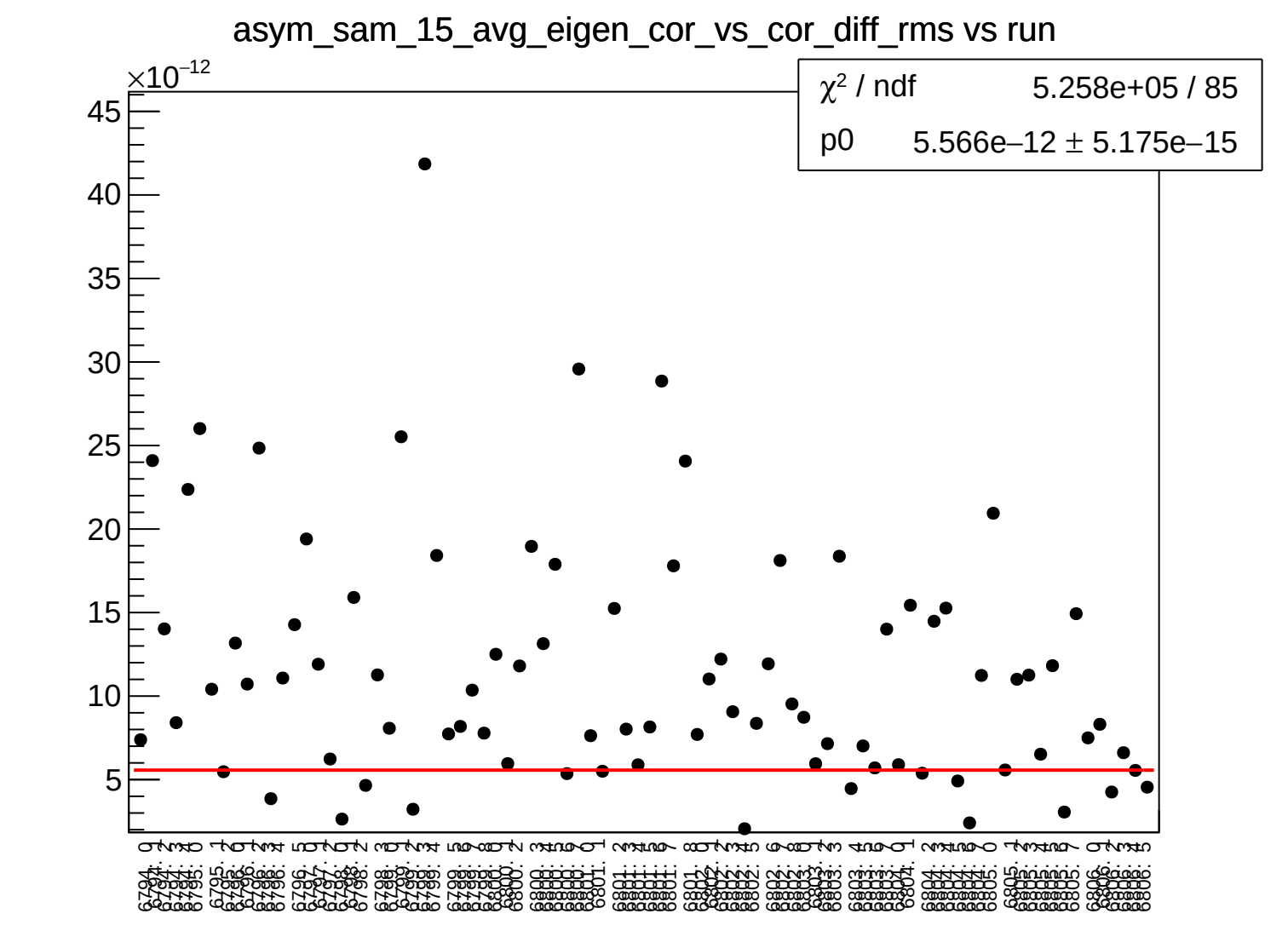

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.25 / 85
p0 −0.04525 ± 0.02444
pull
Entries 86
Mean 47.86
Std Dev 37.05

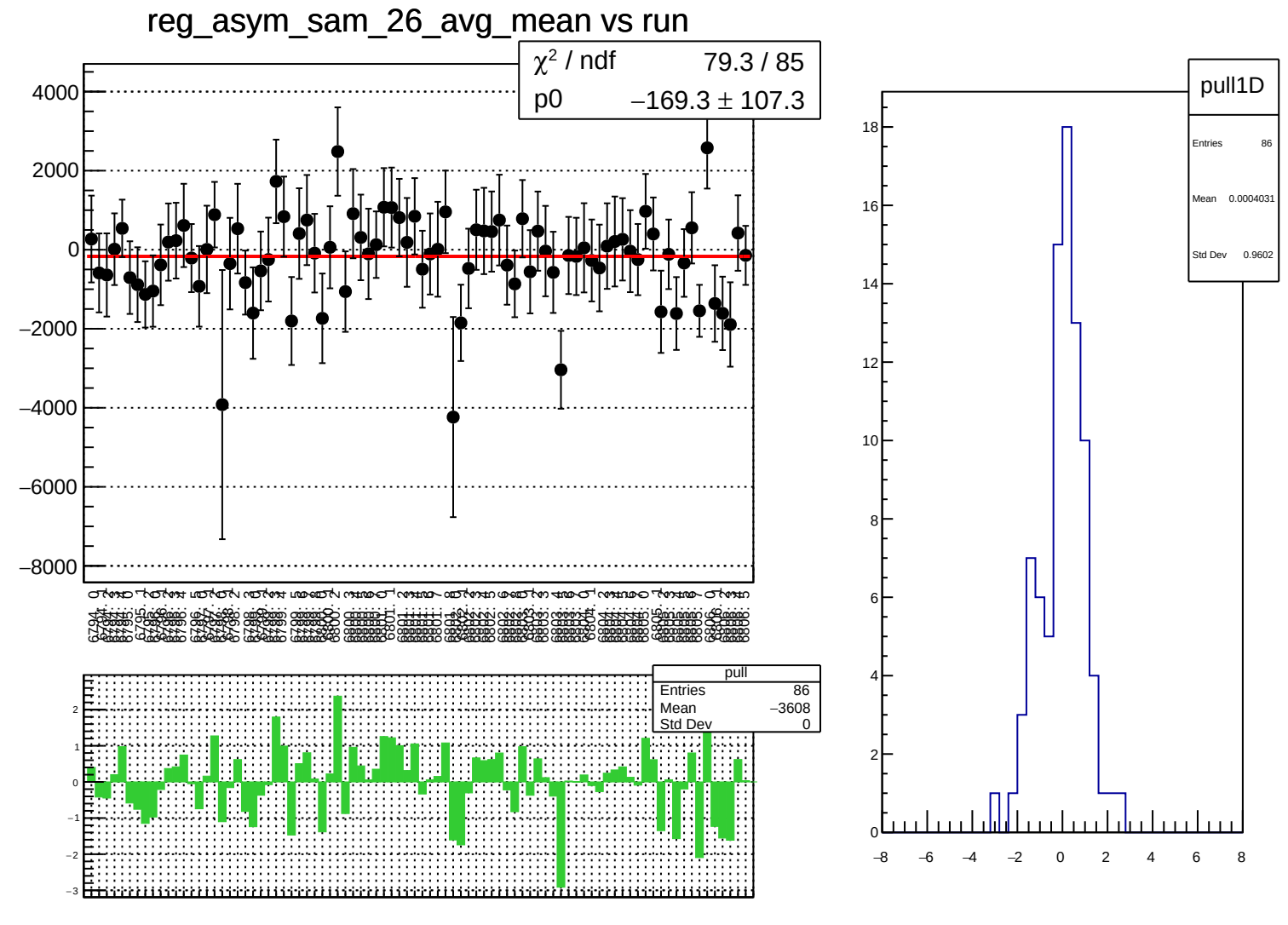

pull1D
Entries 86
Mean 0.01765
Std Dev 1.052

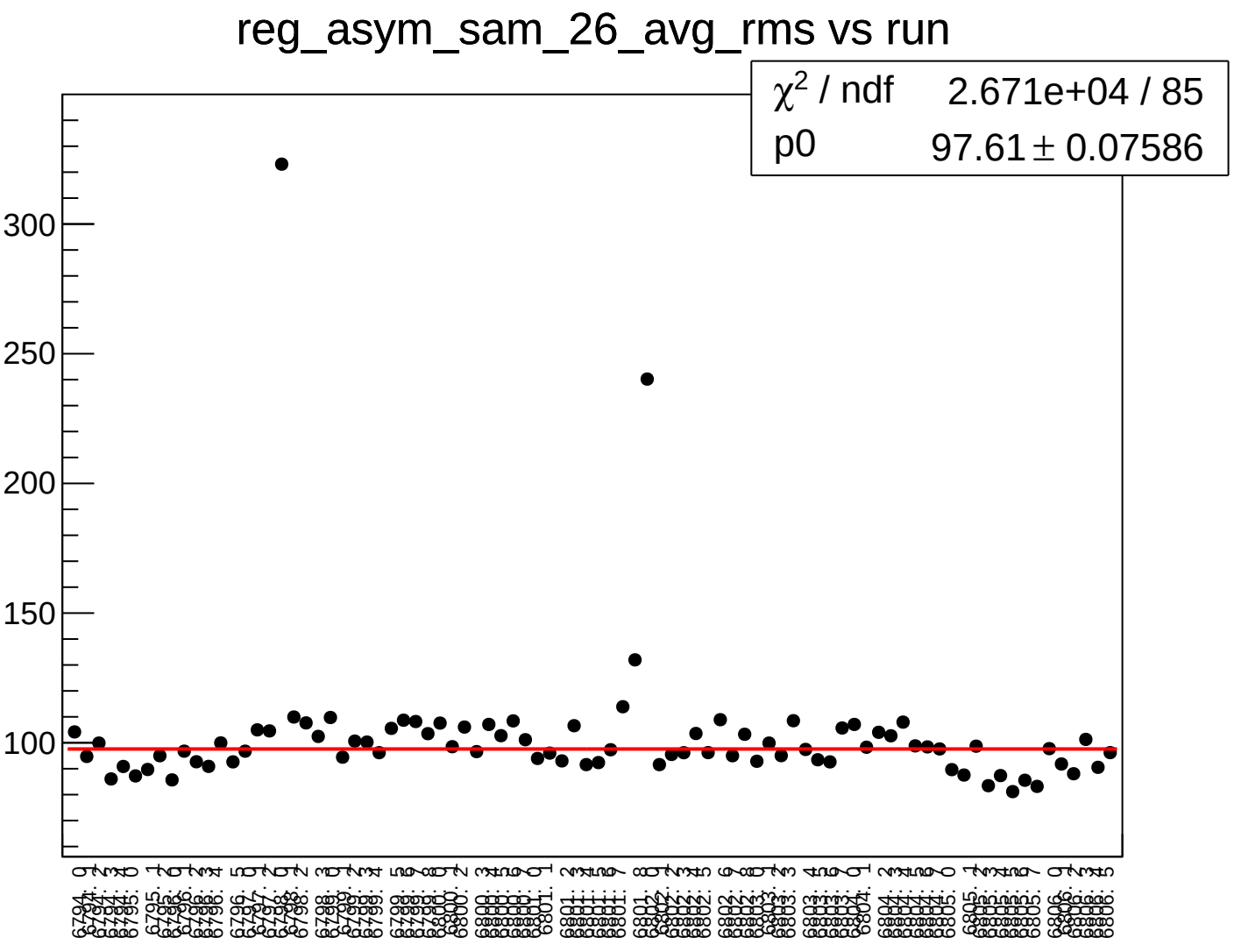

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.889e+04 / 85
p0 22.09 ± 0.01728
50
45
40
35
30
25
20
15

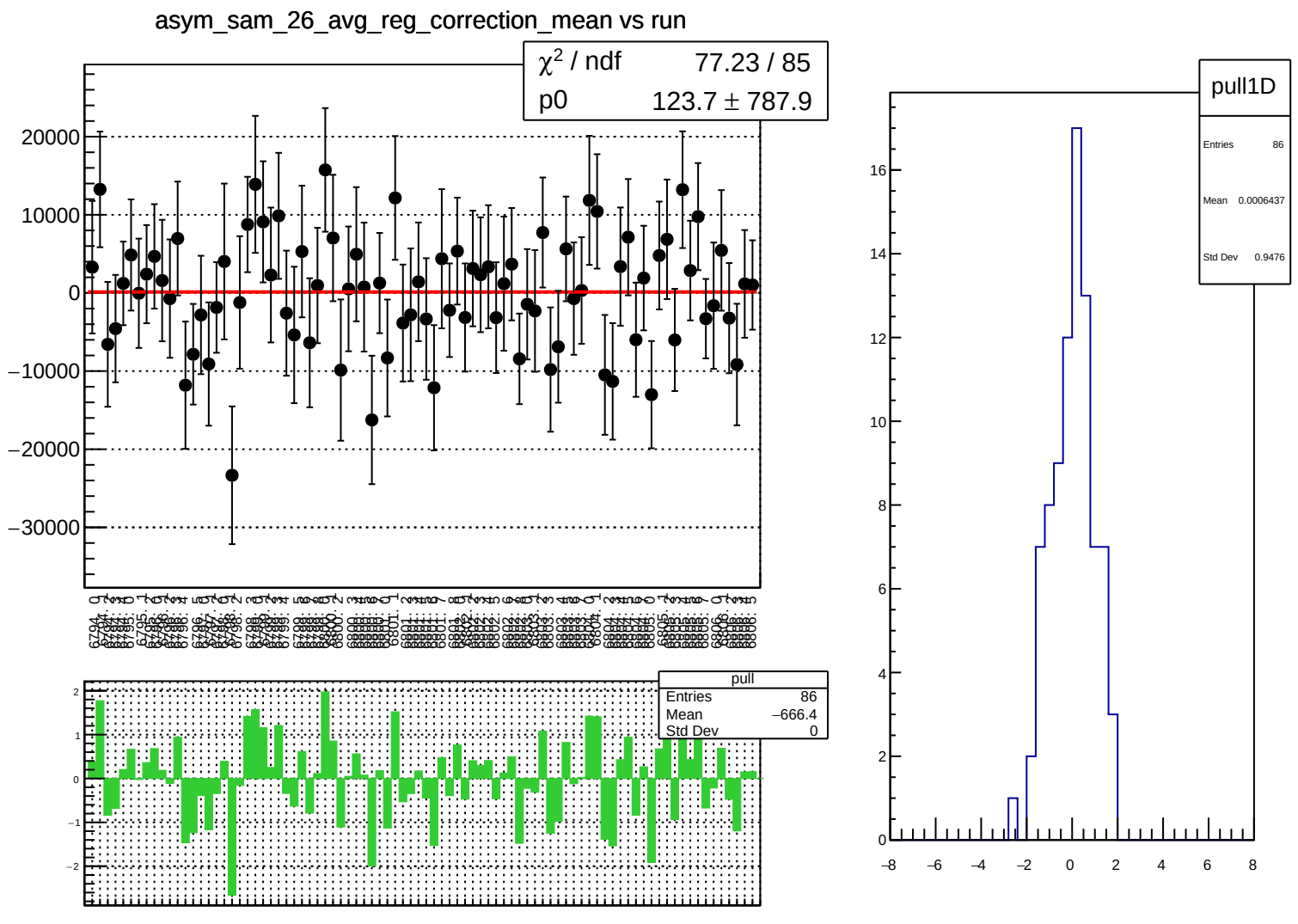

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.41 / 85
p0 −3.59e−15 ± 7.319e−15
pull
Entries 86
Mean 88.16
Std Dev 0

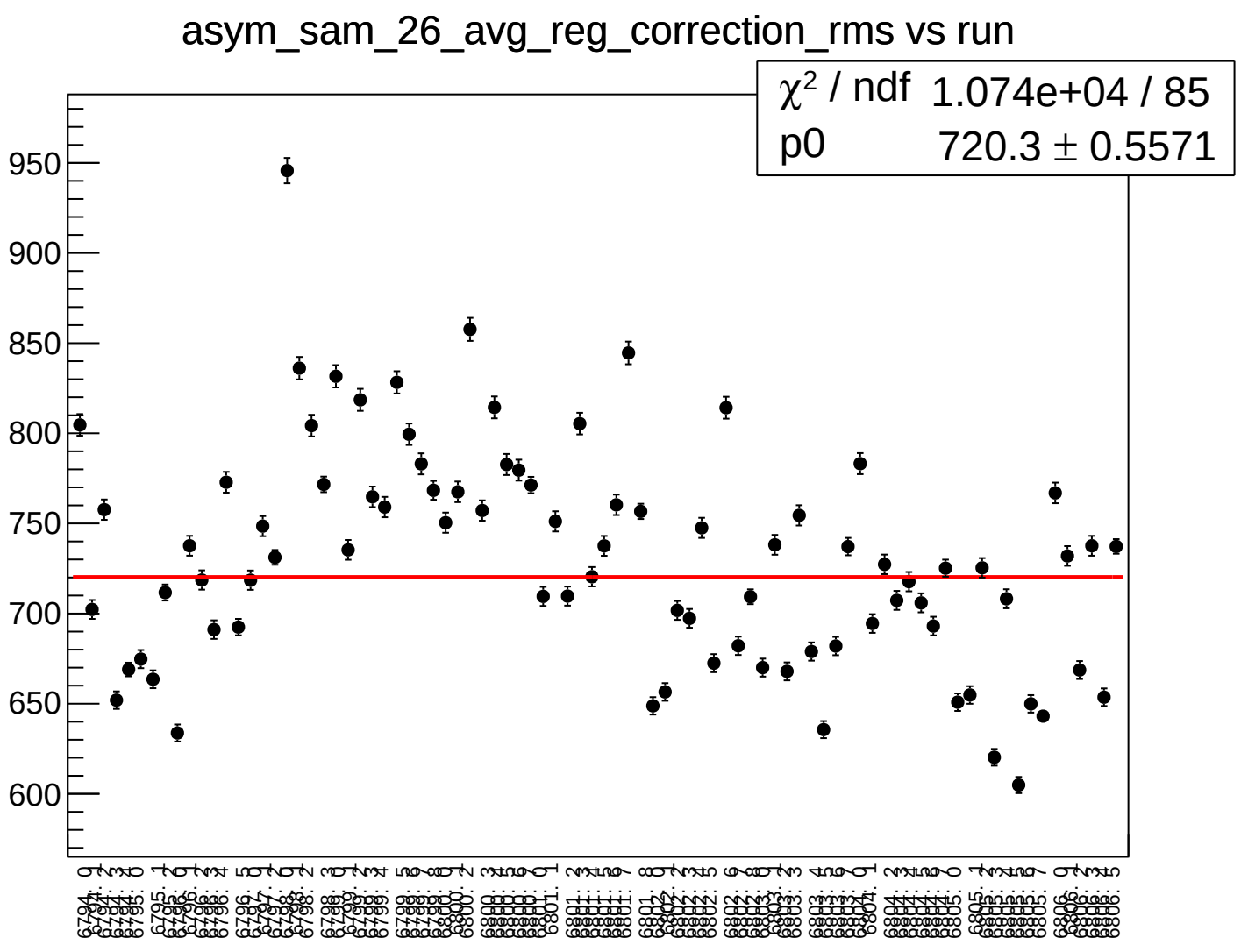

pull1D
Entries 86
Mean 0.08048
Std Dev 1.011

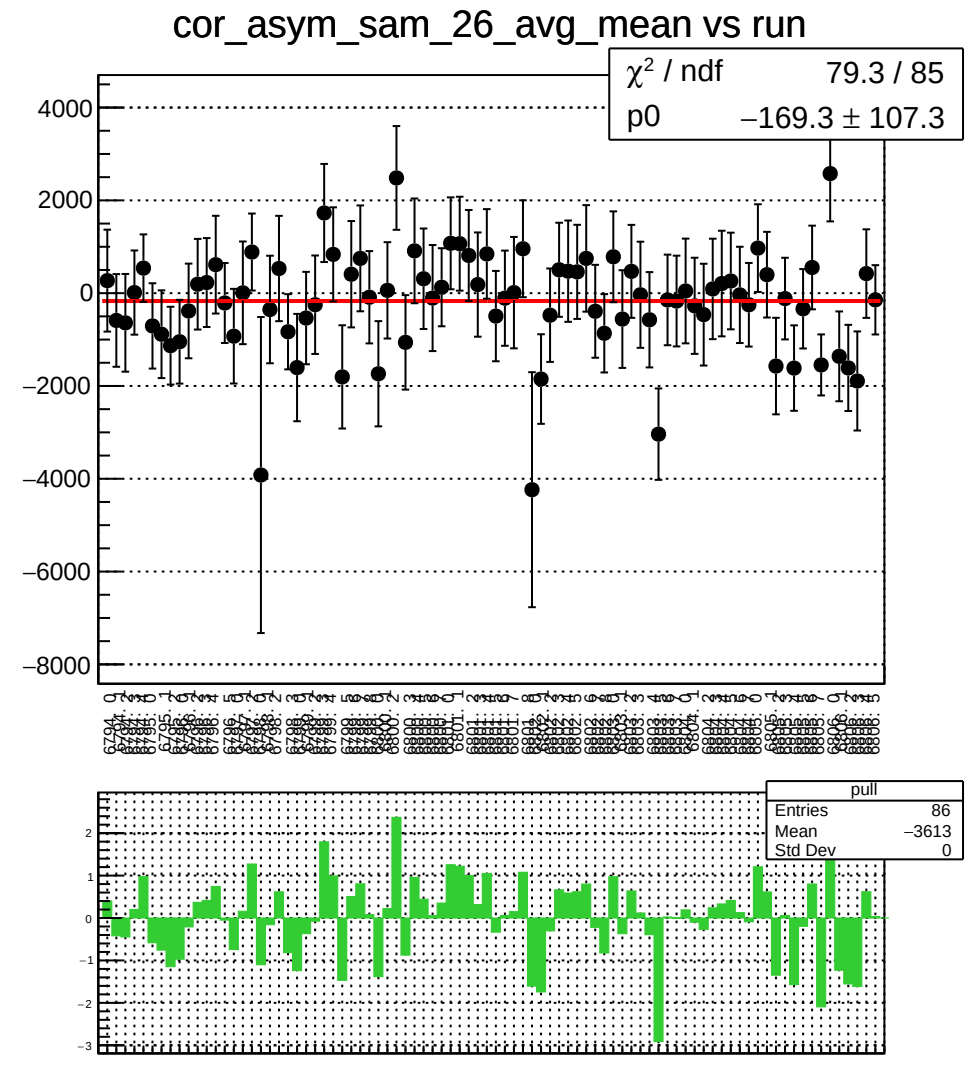

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.258e+05 / 85
p0 5.566e−12 ± 5.175e−15
45
40
35
30
25
20
15
10
5

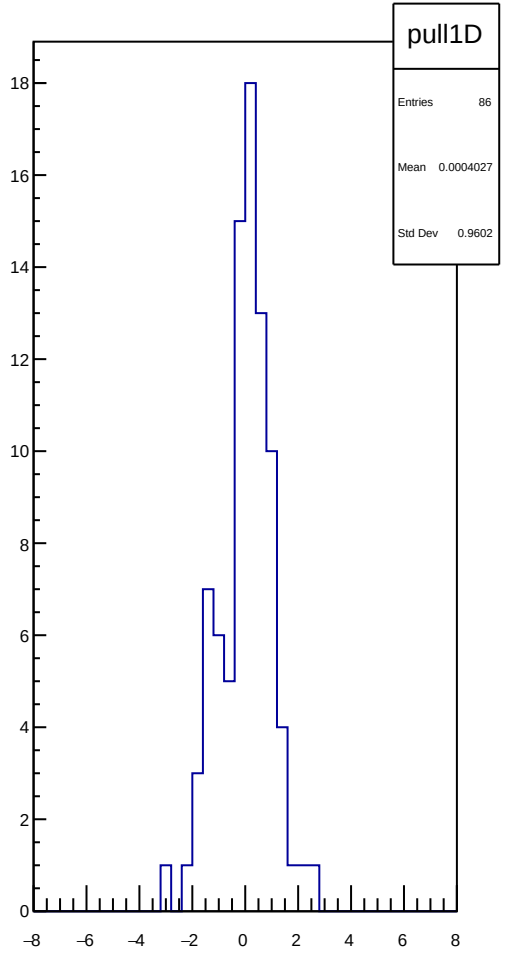

reg_asym_sam_26_avg_mean vs run
χ² / ndf 79.3 / 85
p0 −169.3 ± 107.3
pull
Entries 86
Mean −3608
Std Dev 0
pull1D
Entries 86
Mean 0.0004031
Std Dev 0.9602

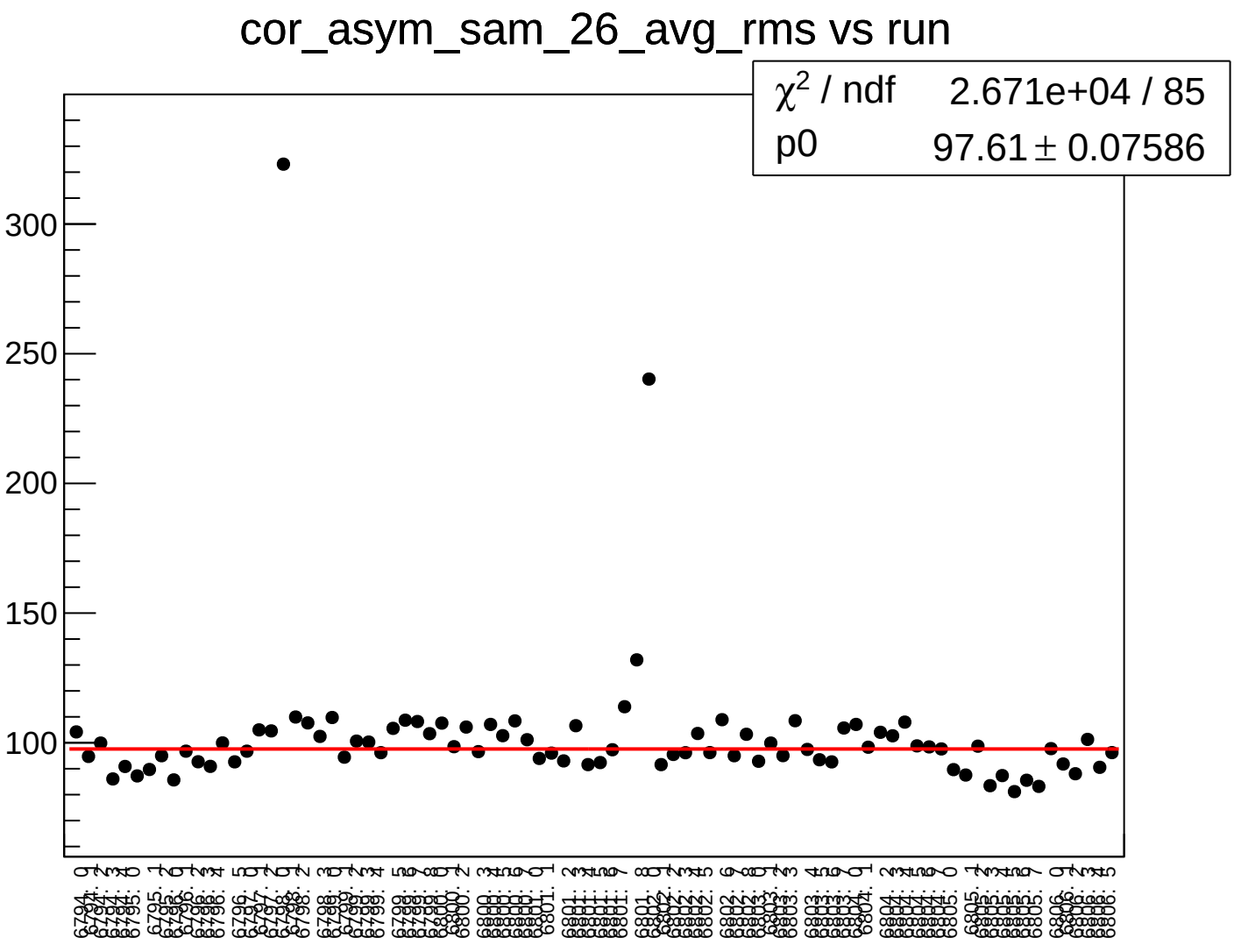

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.671e+04 / 85
p0 97.61 ± 0.07586
300
250
200
150
100

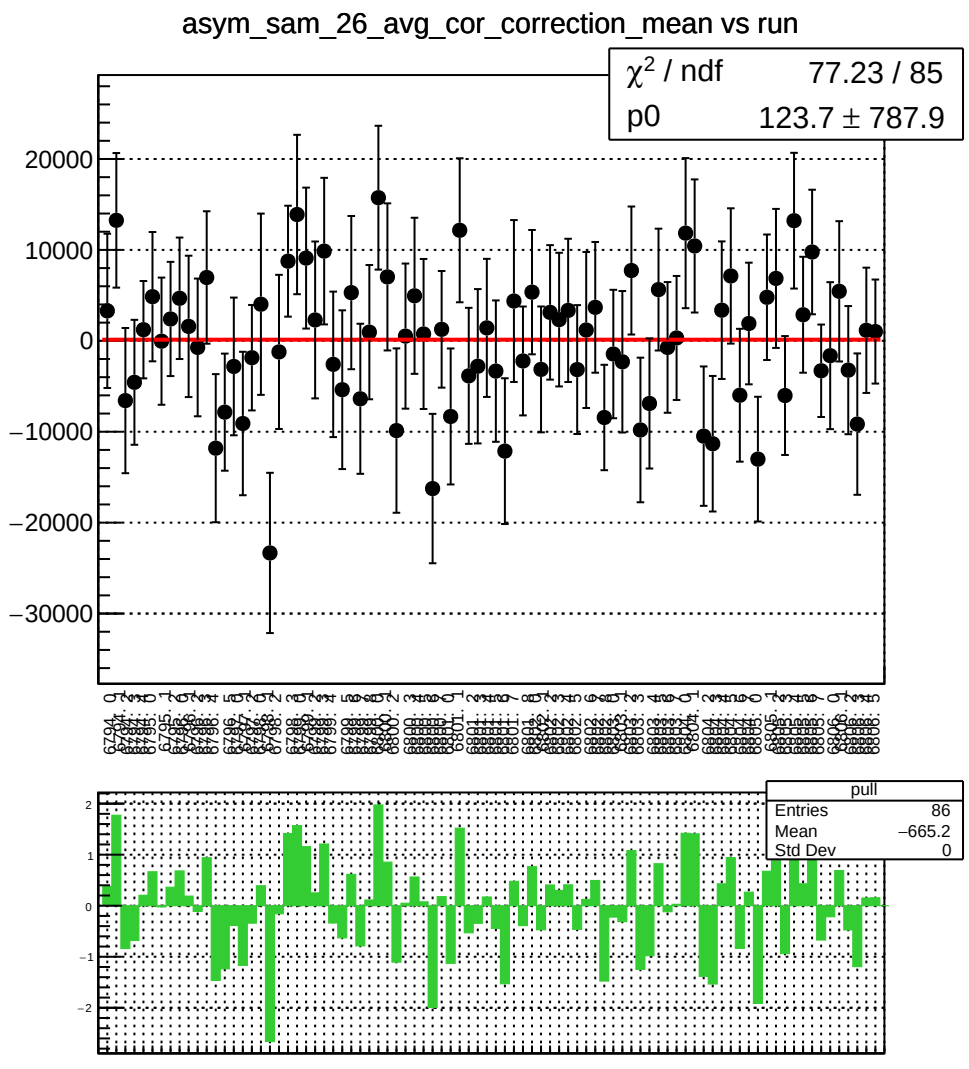

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 77.23 / 85
p0 123.7 ± 787.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −666.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0006437
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

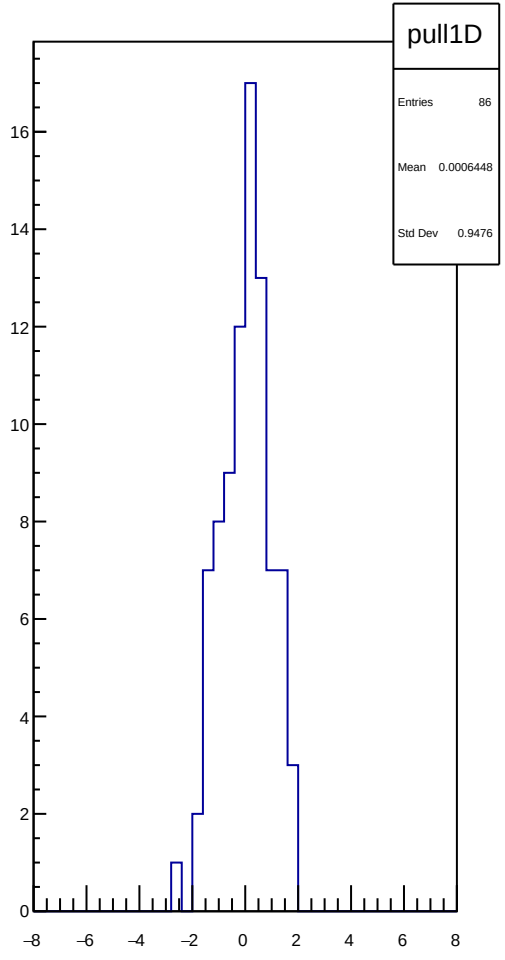

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.074e+04 / 85
p0 720.3 ± 0.5571
950
900
850
800
750
700
650
600

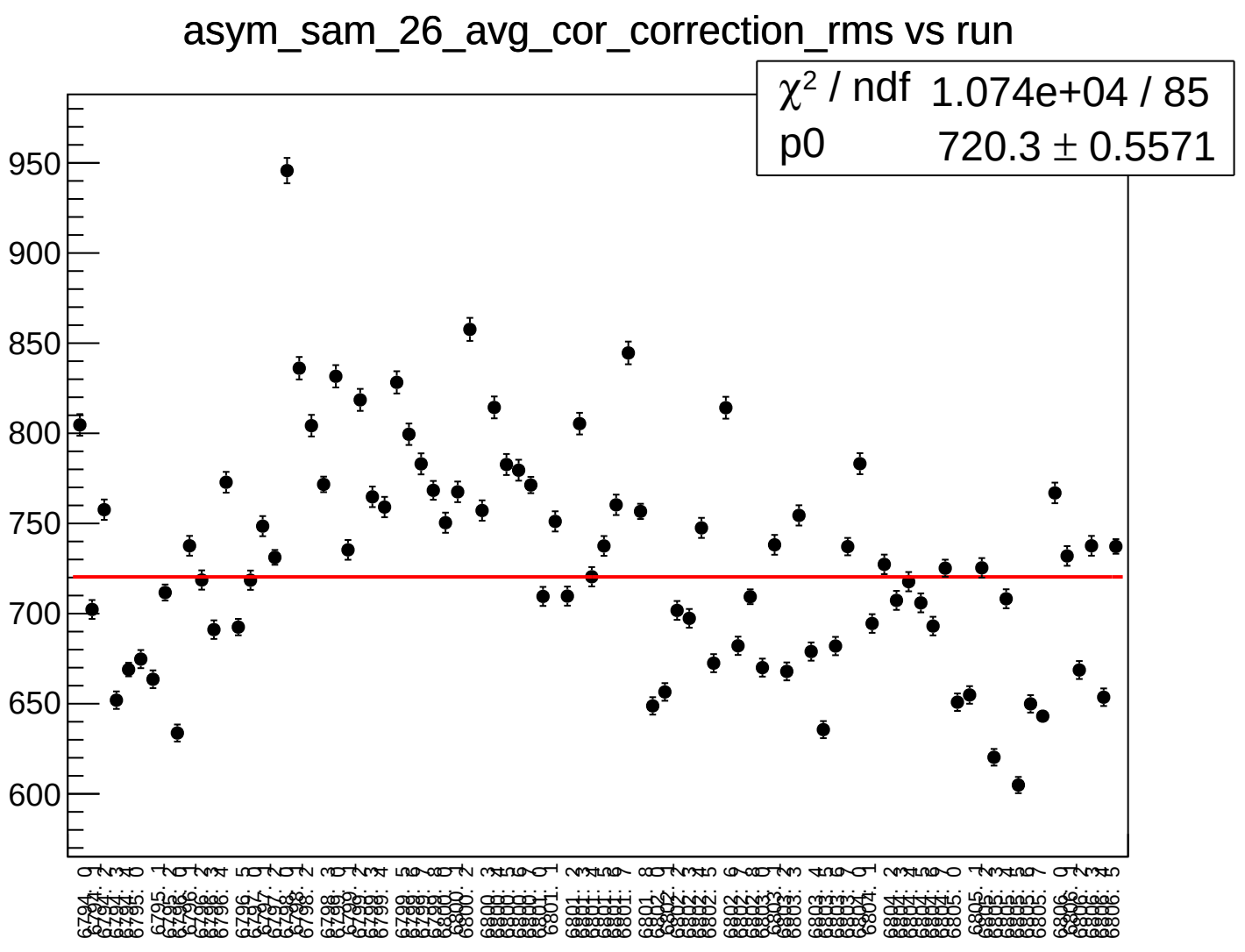

cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.3 / 85
p0 −169.3 ± 107.3
pull
Entries 86
Mean −3613
Std Dev 0

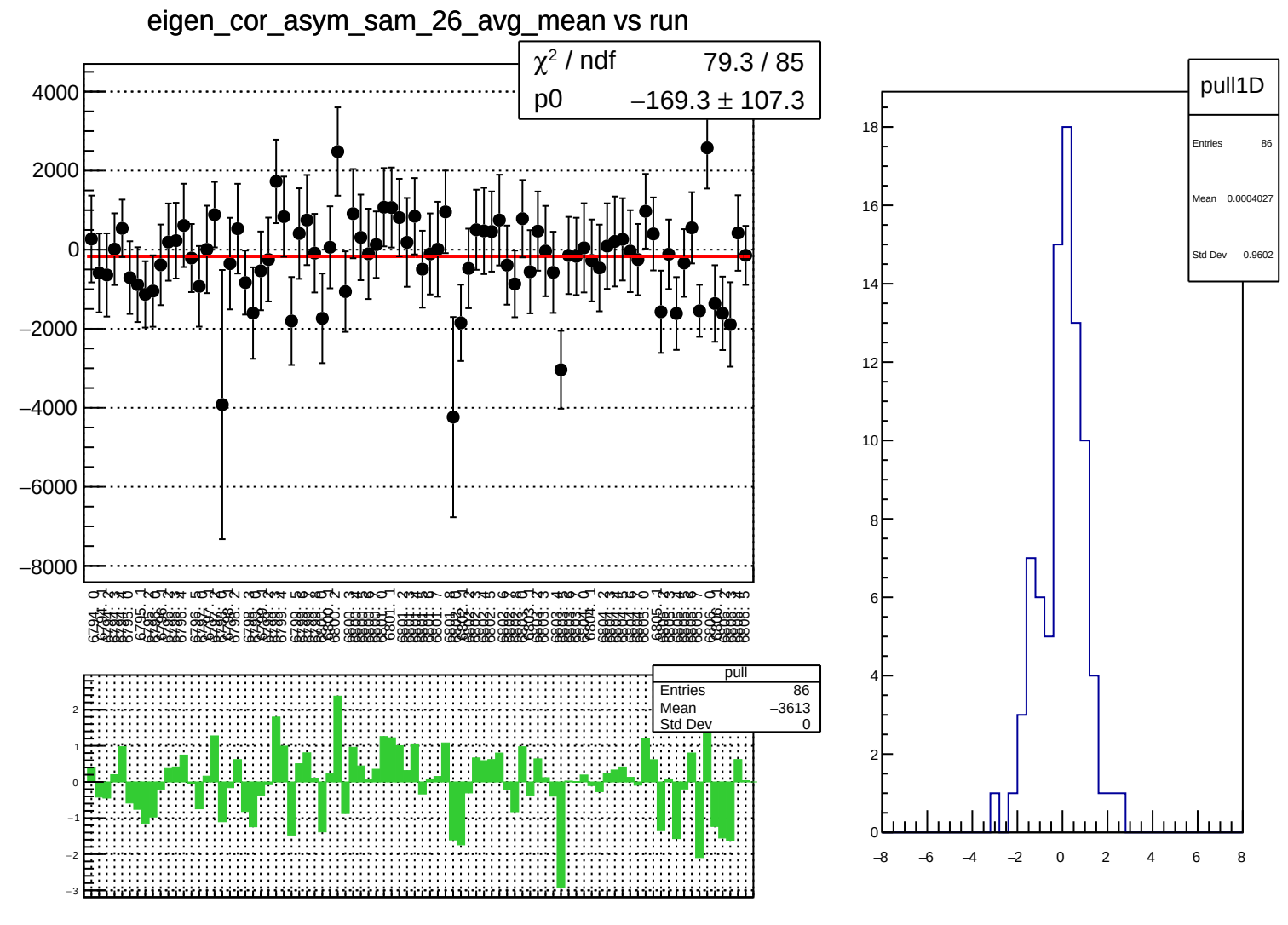

pull1D
Entries 86
Mean 0.0004027
Std Dev 0.9602

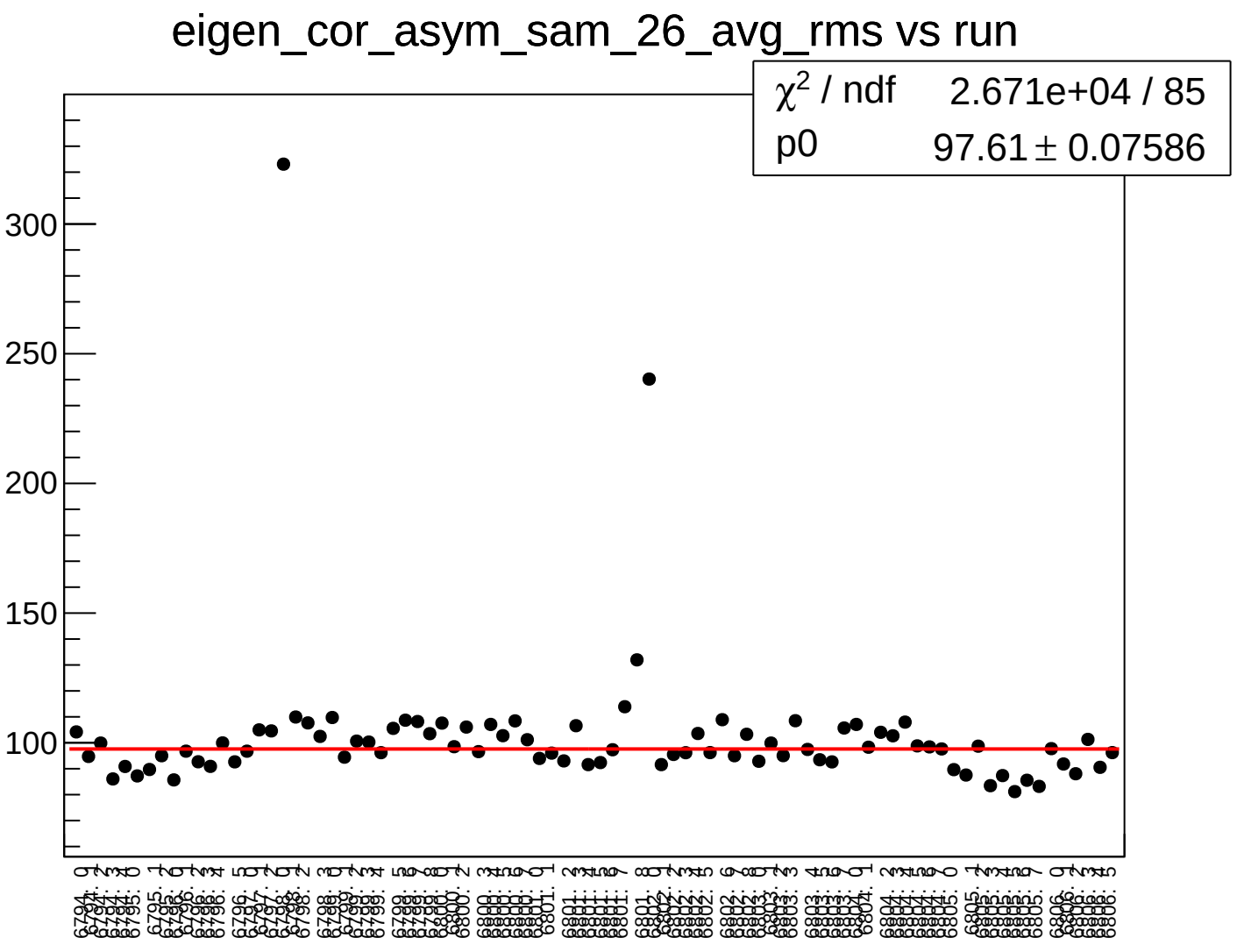

cor_asym_sam_26_avg_rms vs run
χ^2 / ndf 2.671e+04 / 85
p0 97.61 ± 0.07586
300
250
200
150
100

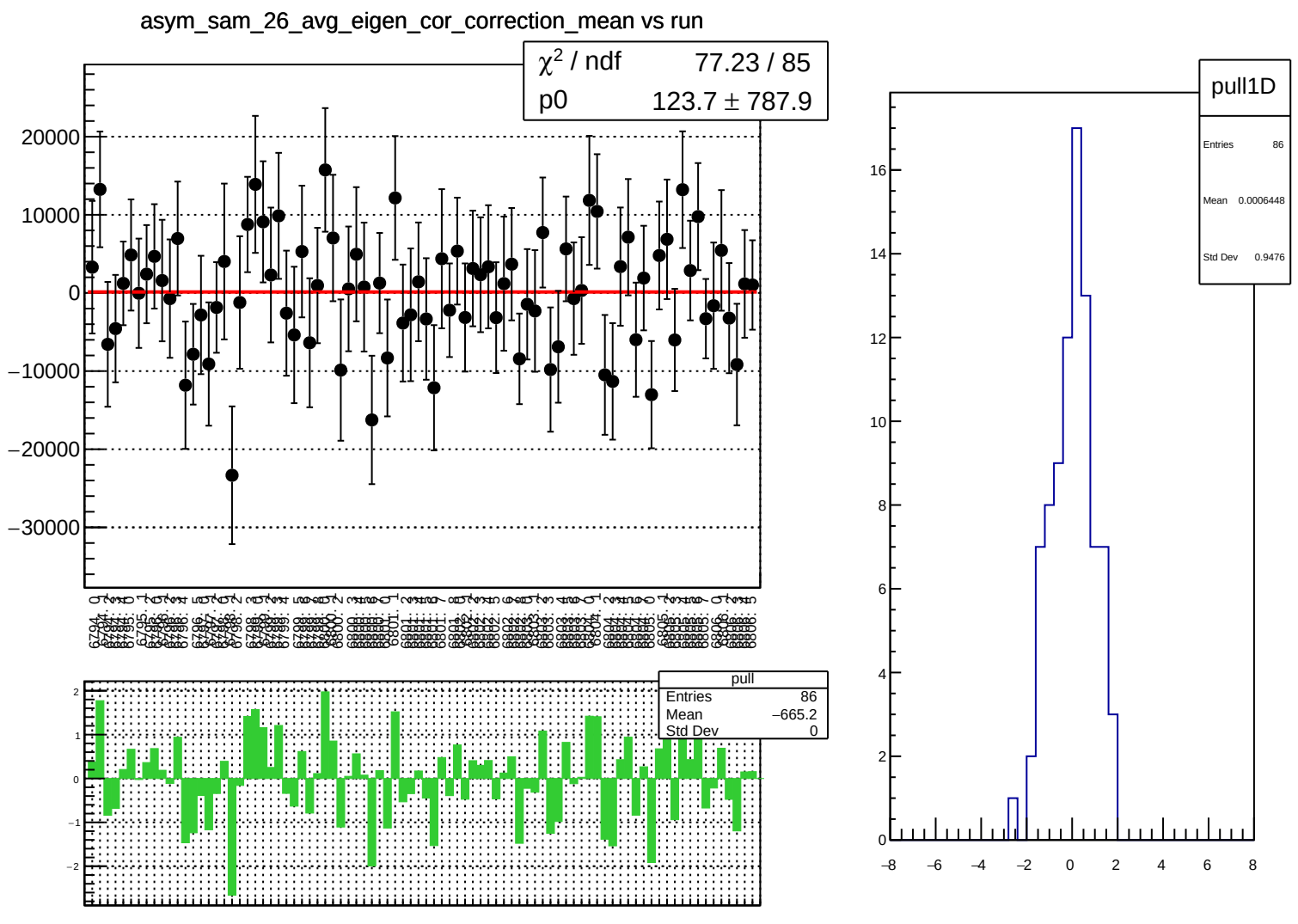

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 77.23 / 85
p0 123.7 ± 787.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −665.2
Std Dev 0
2
1
0
−1
−2

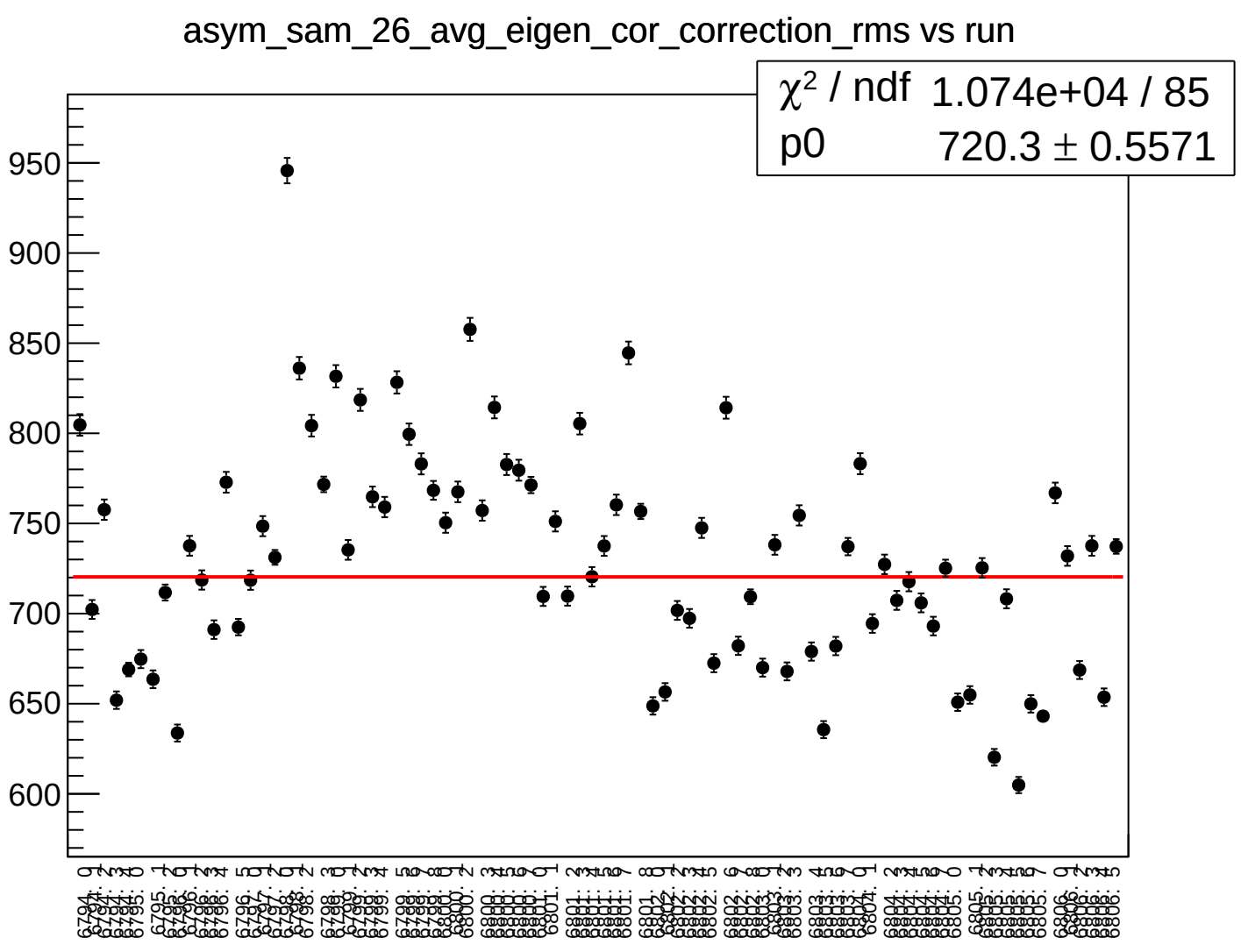

pull1D
Entries 86
Mean 0.0006448
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

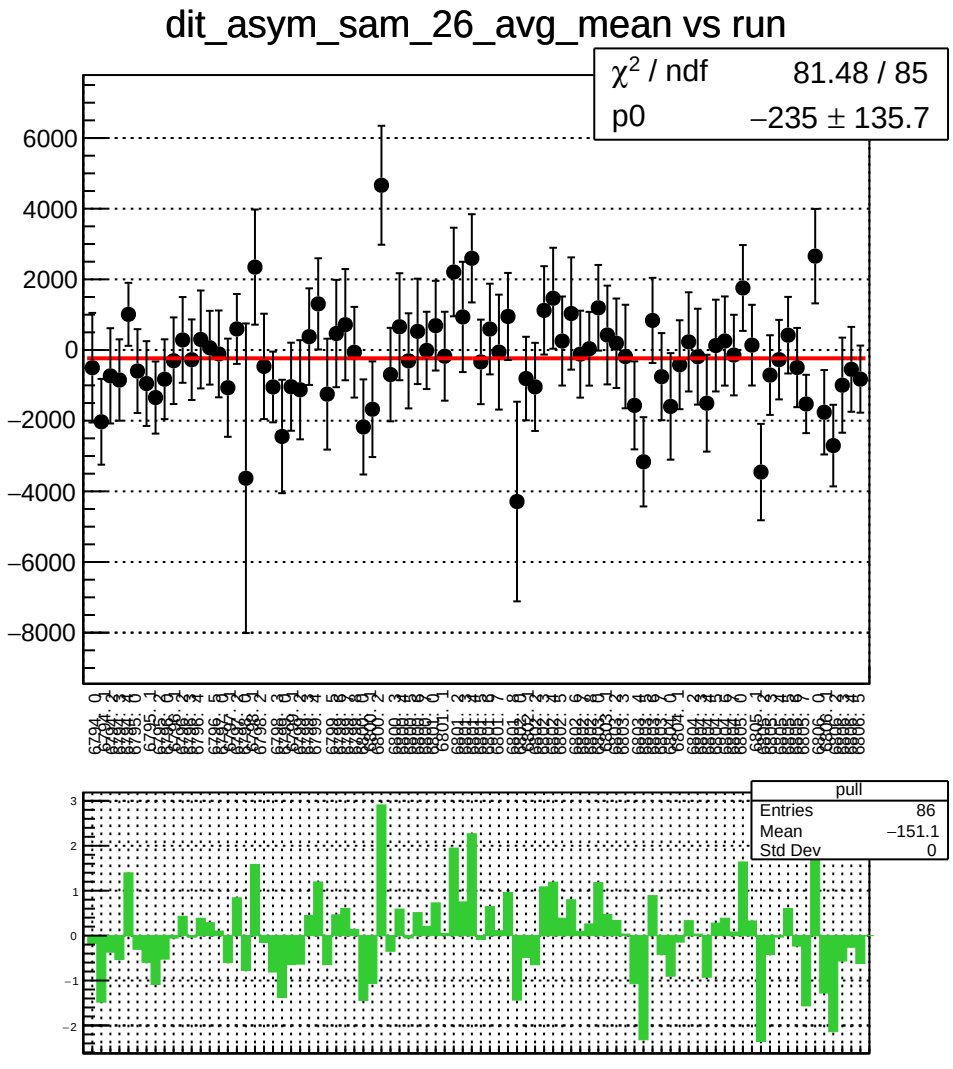

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 85
p0 720.3 ± 0.5571
950
900
850
800
750
700
650
600

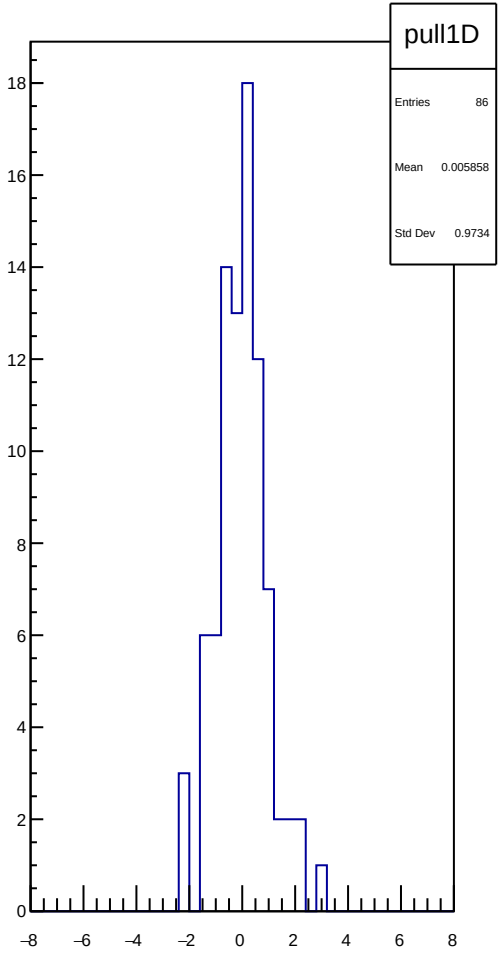

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 79.3 / 85
p0 −169.3 ± 107.3
pull
Entries 86
Mean −3613
Std Dev 0
pull1D
Entries 86
Mean 0.0004027
Std Dev 0.9602

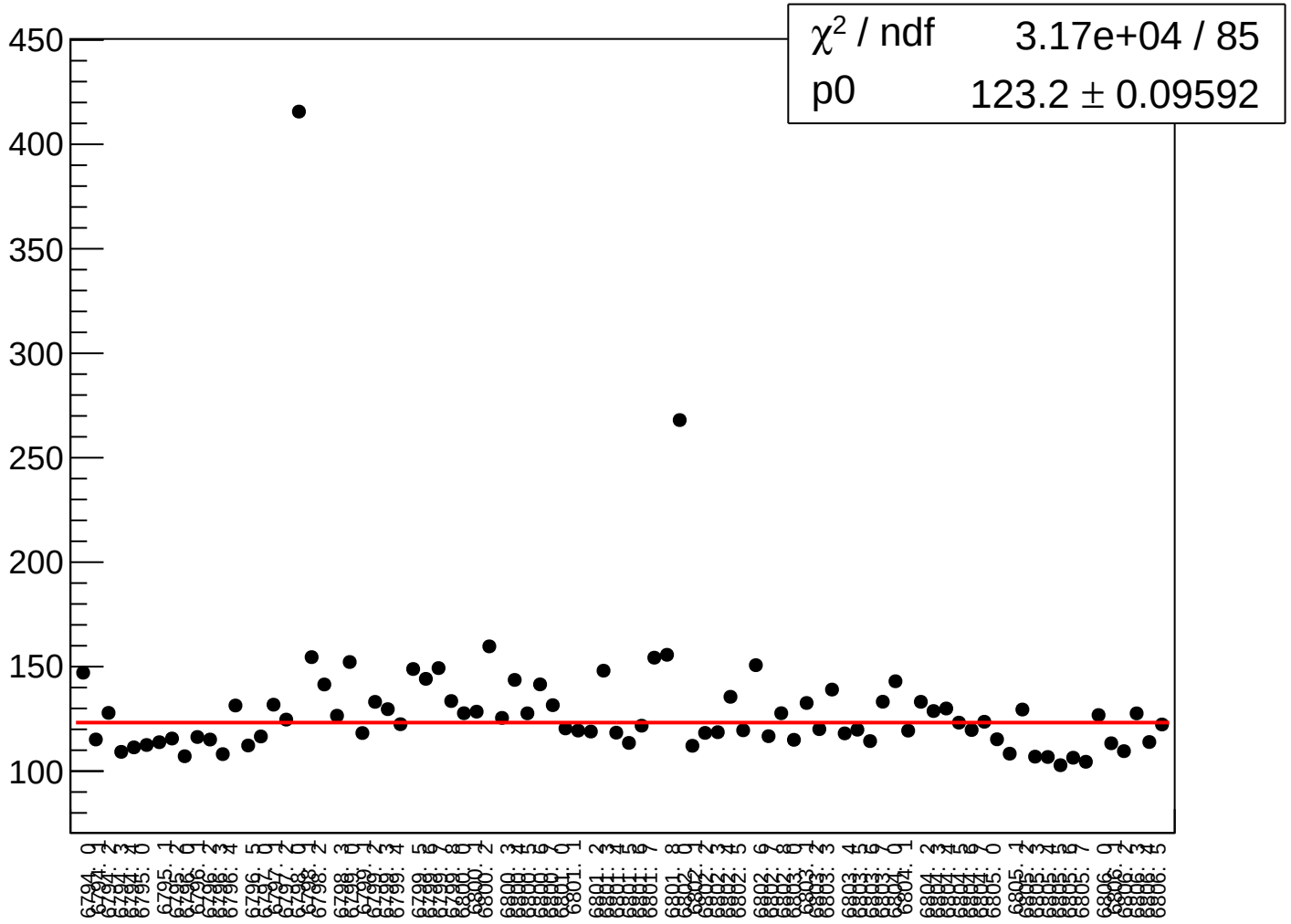

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 2.671e+04 / 85
p0 97.61 ± 0.07586
300
250
200
150
100

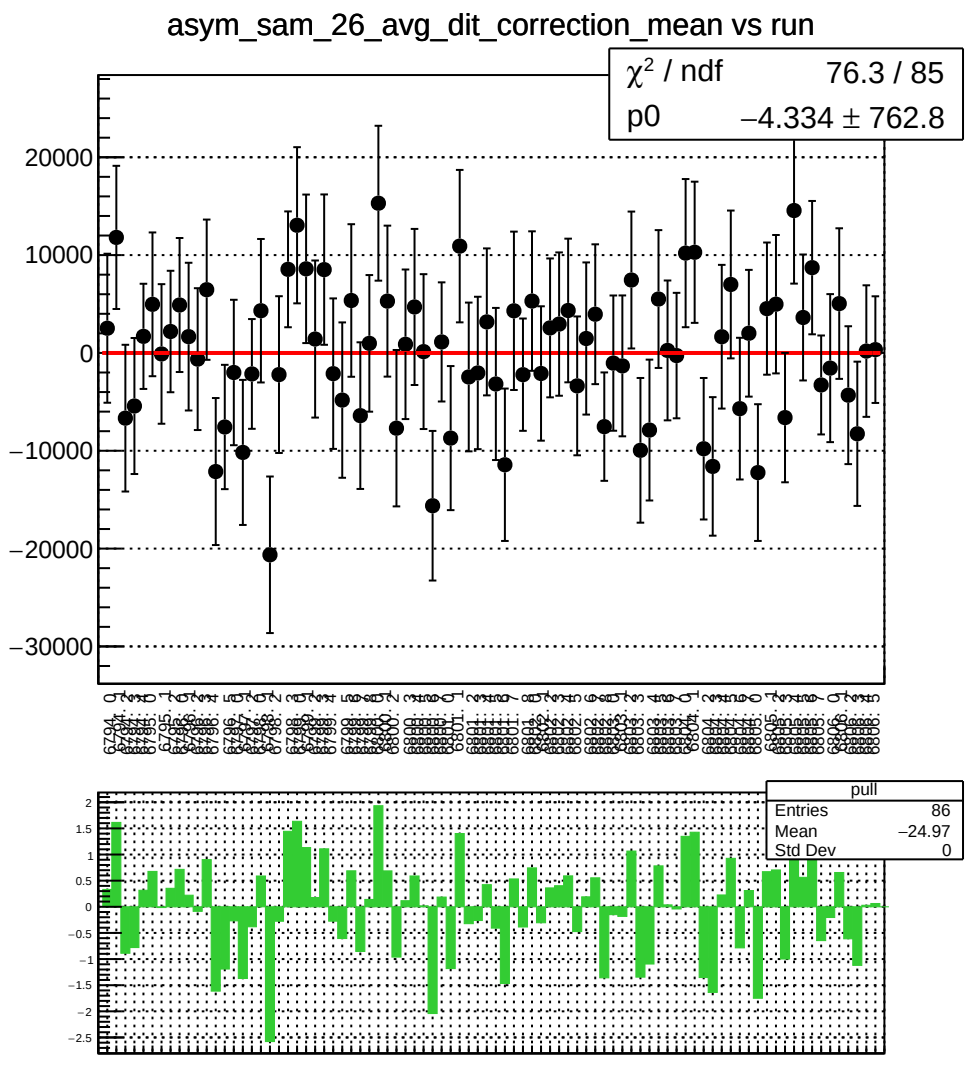

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.23 / 85
p0 123.7 ± 787.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −665.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.0006448
Std Dev 0.9476
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

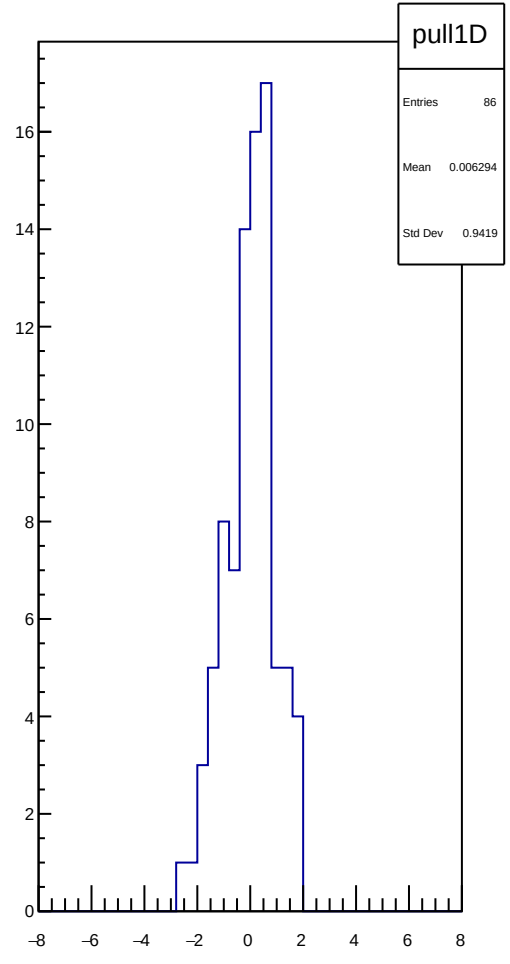

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.074e+04 / 85
p0 720.3 ± 0.5571
950
900
850
800
750
700
650
600

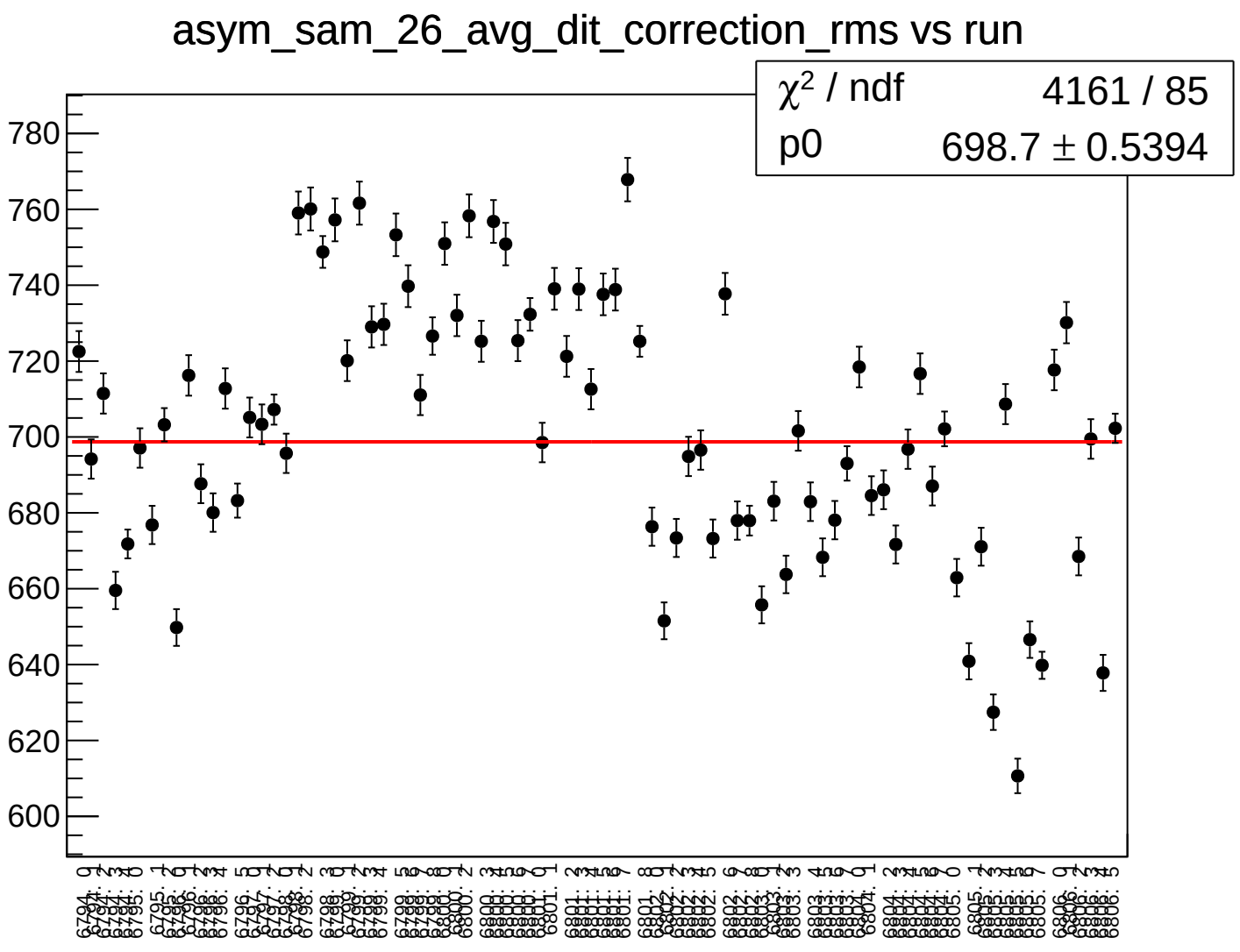

dit_asym_sam_26_avg_mean vs run
χ² / ndf 81.48 / 85
p0 −235 ± 135.7
pull
Entries 86
Mean −151.1
Std Dev 0

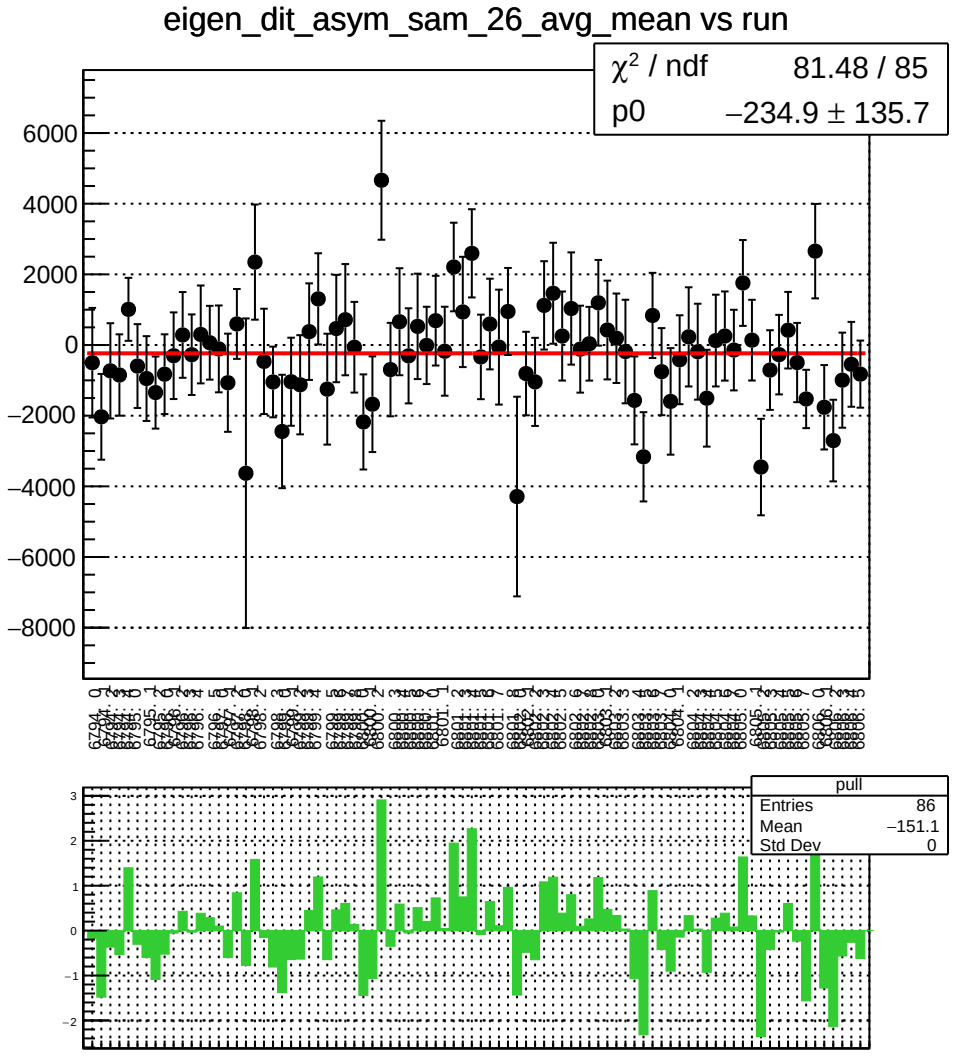

pull1D
Entries 86
Mean 0.005858
Std Dev 0.9734

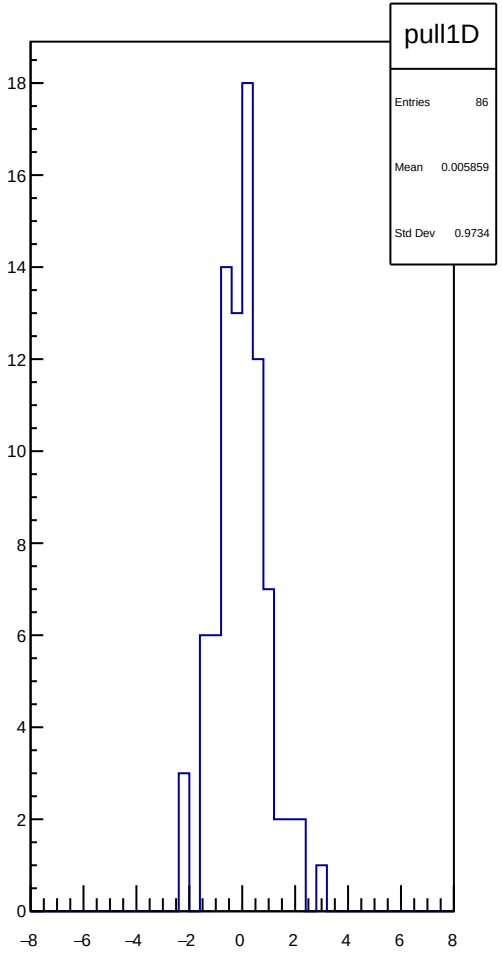

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.17e+04 / 85
p0 123.2 ± 0.09592
450
400
350
300
250
200
150
100

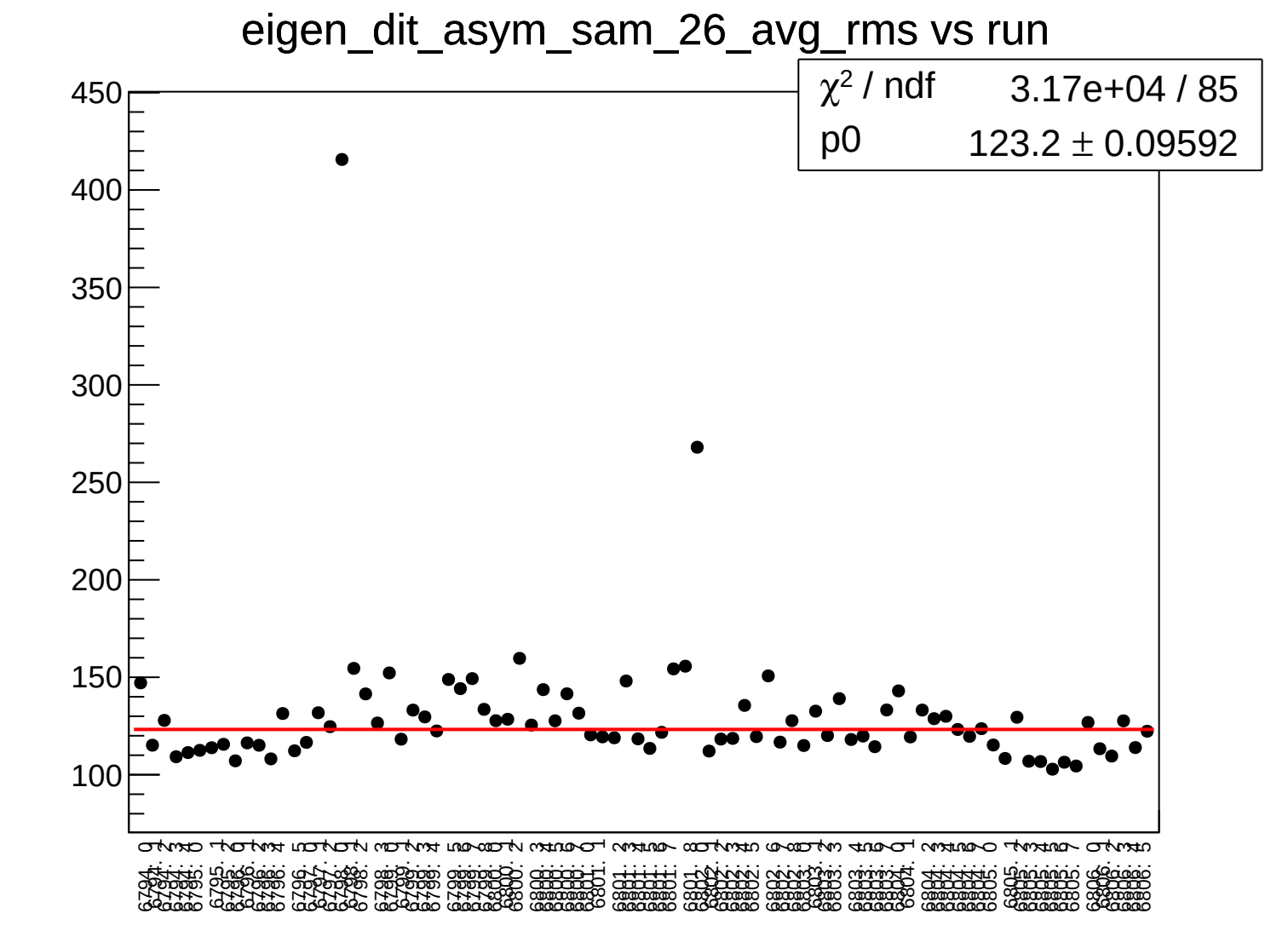

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 76.3 / 85
p0 −4.334 ± 762.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −24.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

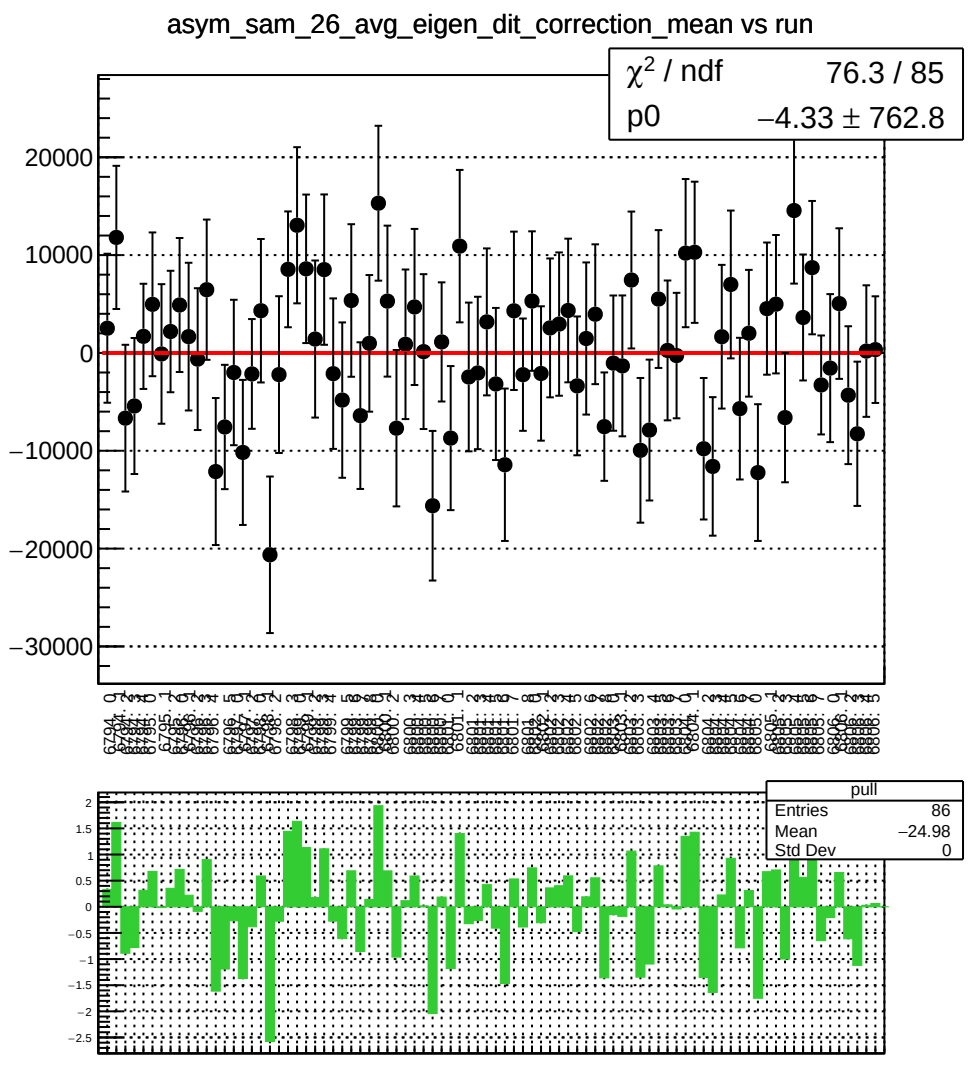

pull1D
Entries 86
Mean 0.006294
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

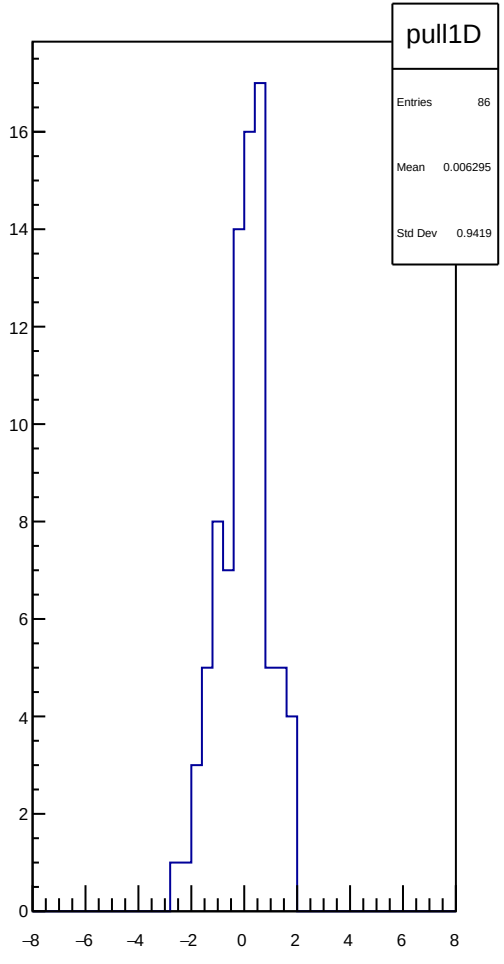

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4161 / 85
p0 698.7 ± 0.5394
780
760
740
720
700
680
660
640
620
600

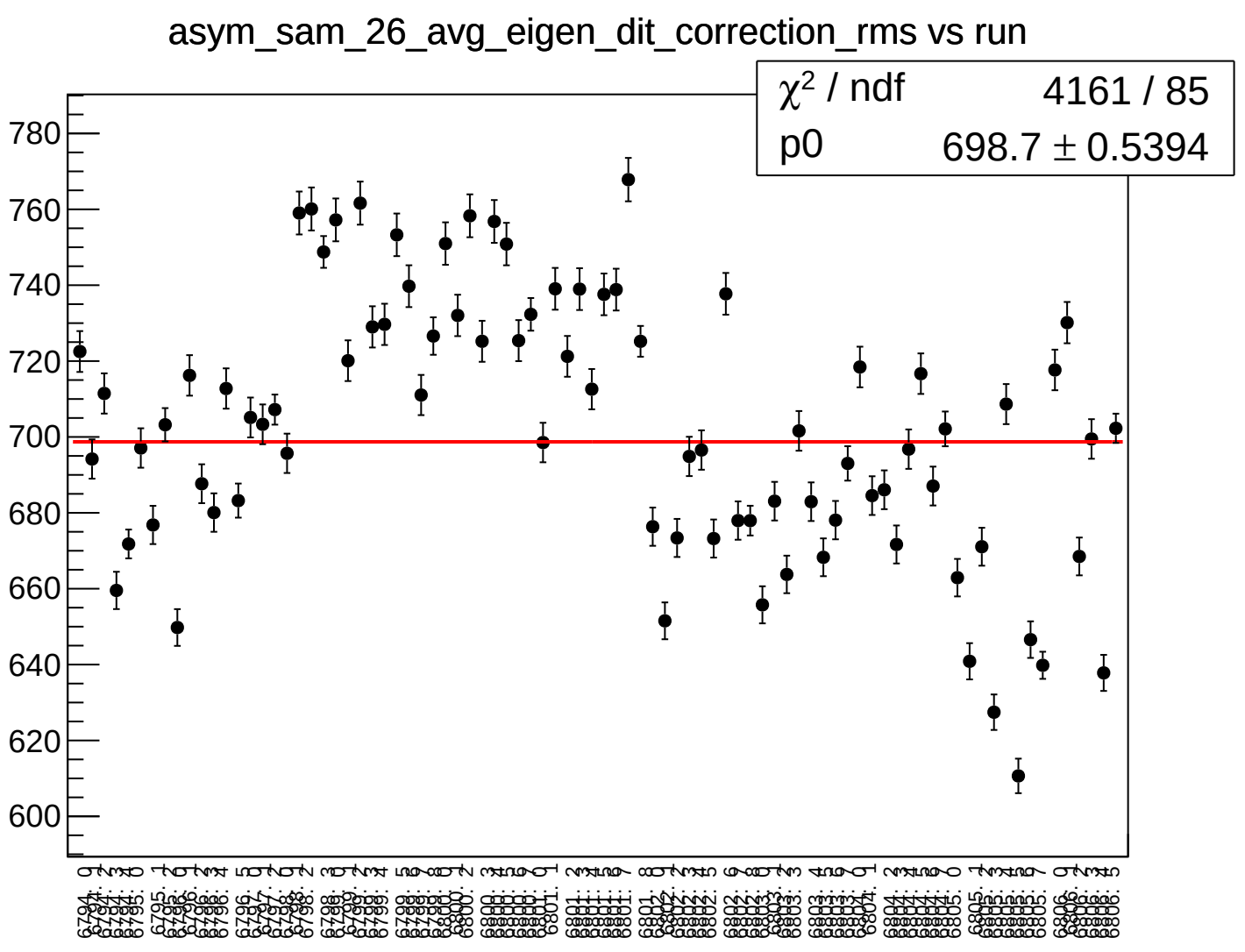

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 81.48 / 85
p0 −234.9 ± 135.7
pull
Entries 86
Mean −151.1
Std Dev 0

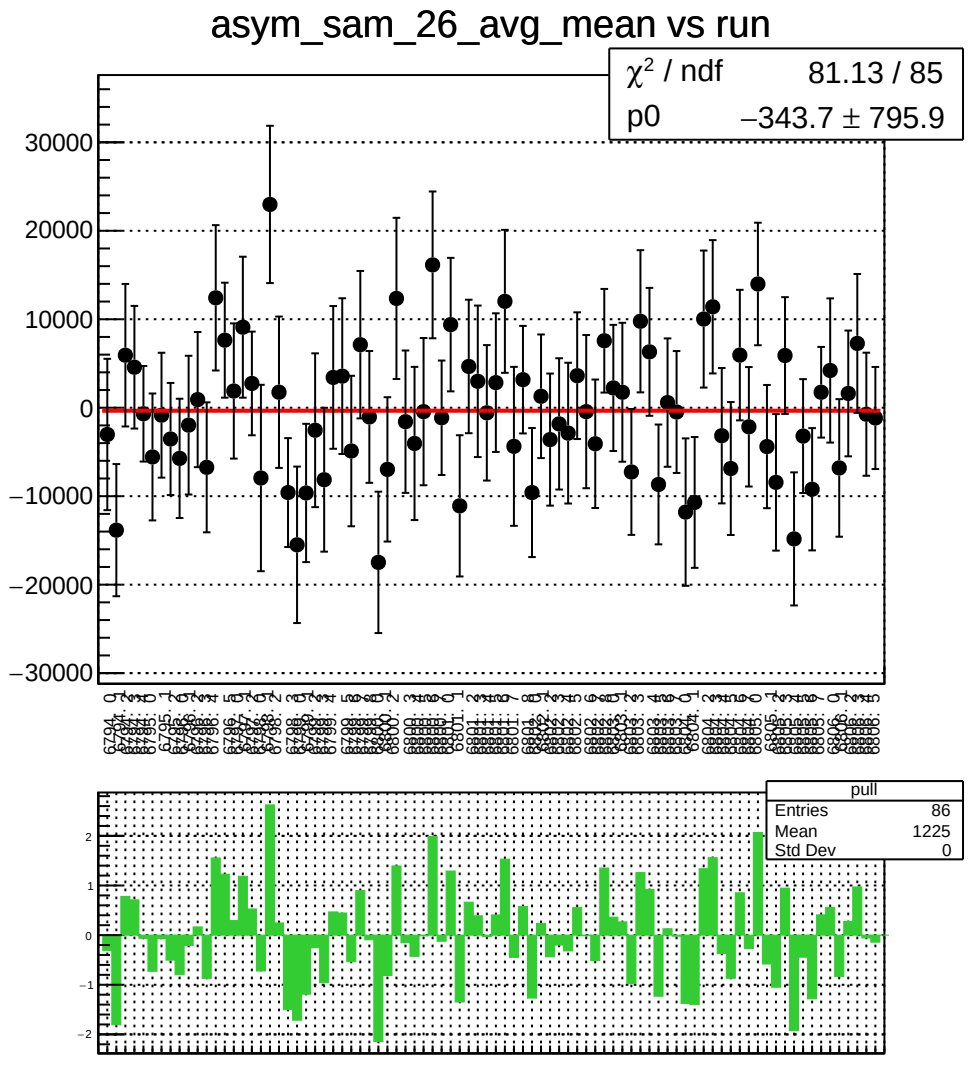

pull1D
Entries 86
Mean 0.005859
Std Dev 0.9734

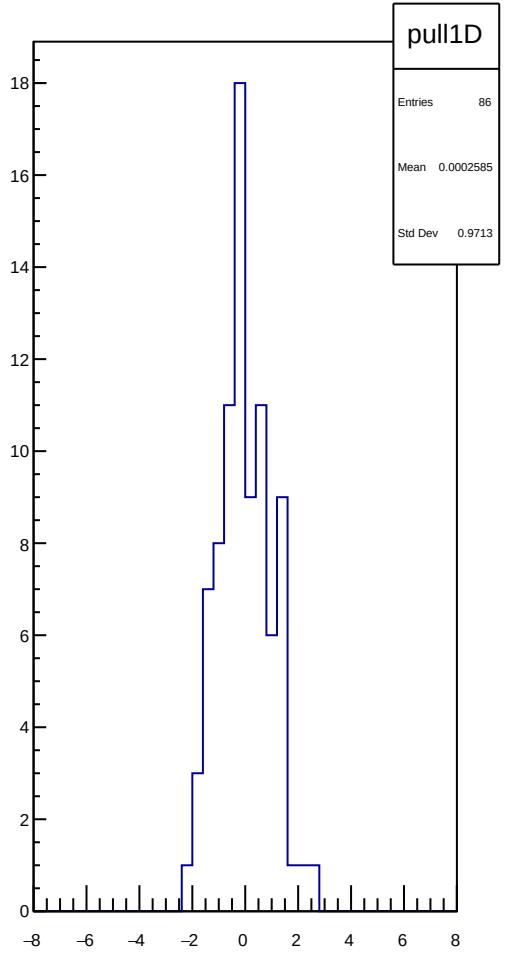

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 3.17e+04 / 85
p0 123.2 ± 0.09592
450
400
350
300
250
200
150
100

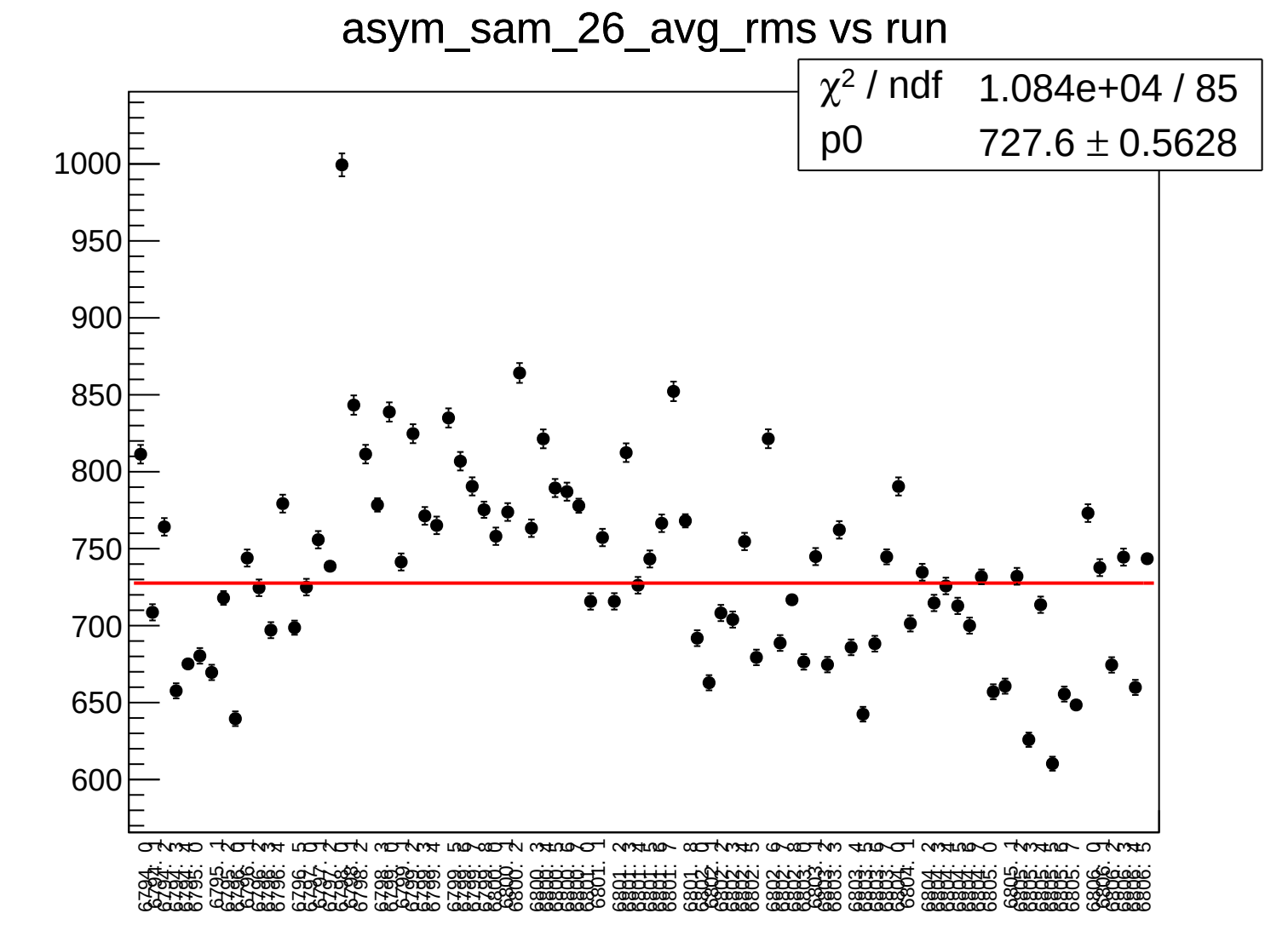

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.3 / 85
p0 −4.33 ± 762.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −24.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

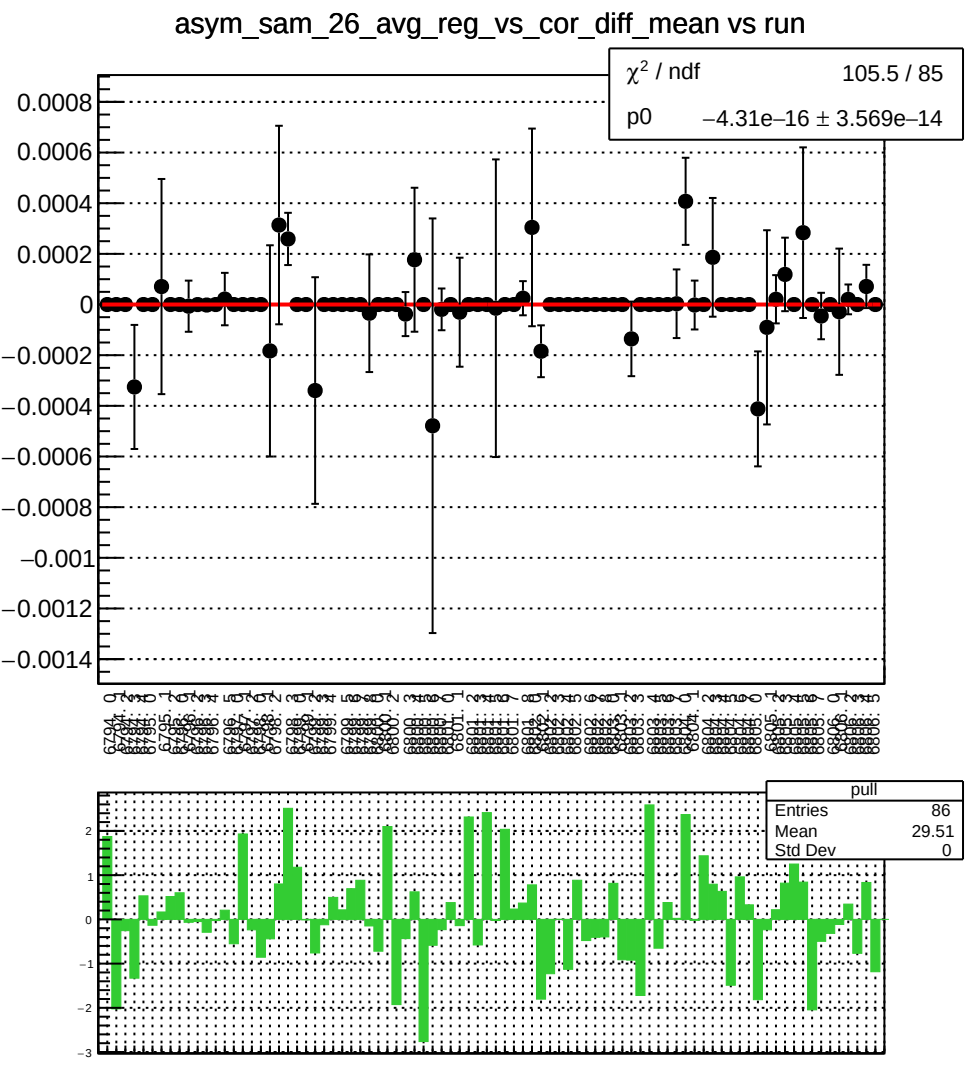

pull1D
Entries 86
Mean 0.006295
Std Dev 0.9419
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

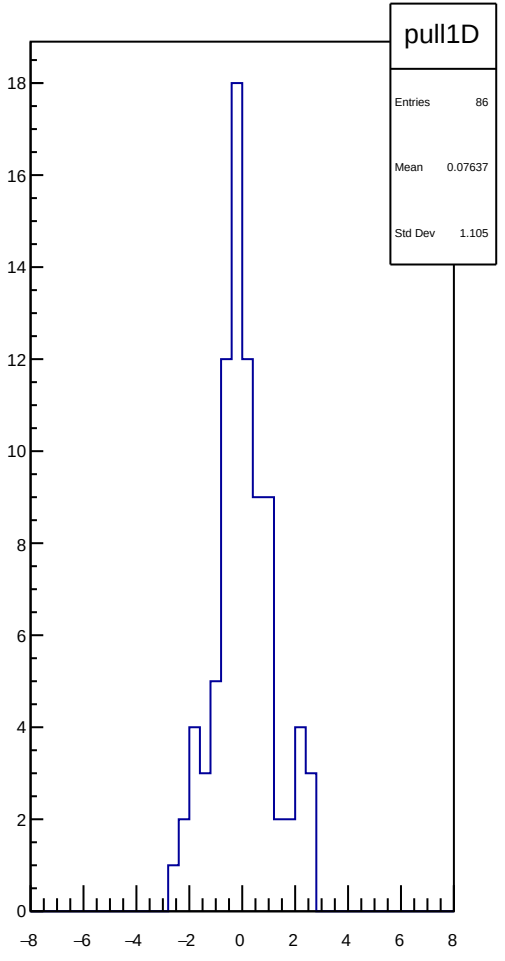

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4161 / 85
p0 698.7 ± 0.5394
780
760
740
720
700
680
660
640
620
600

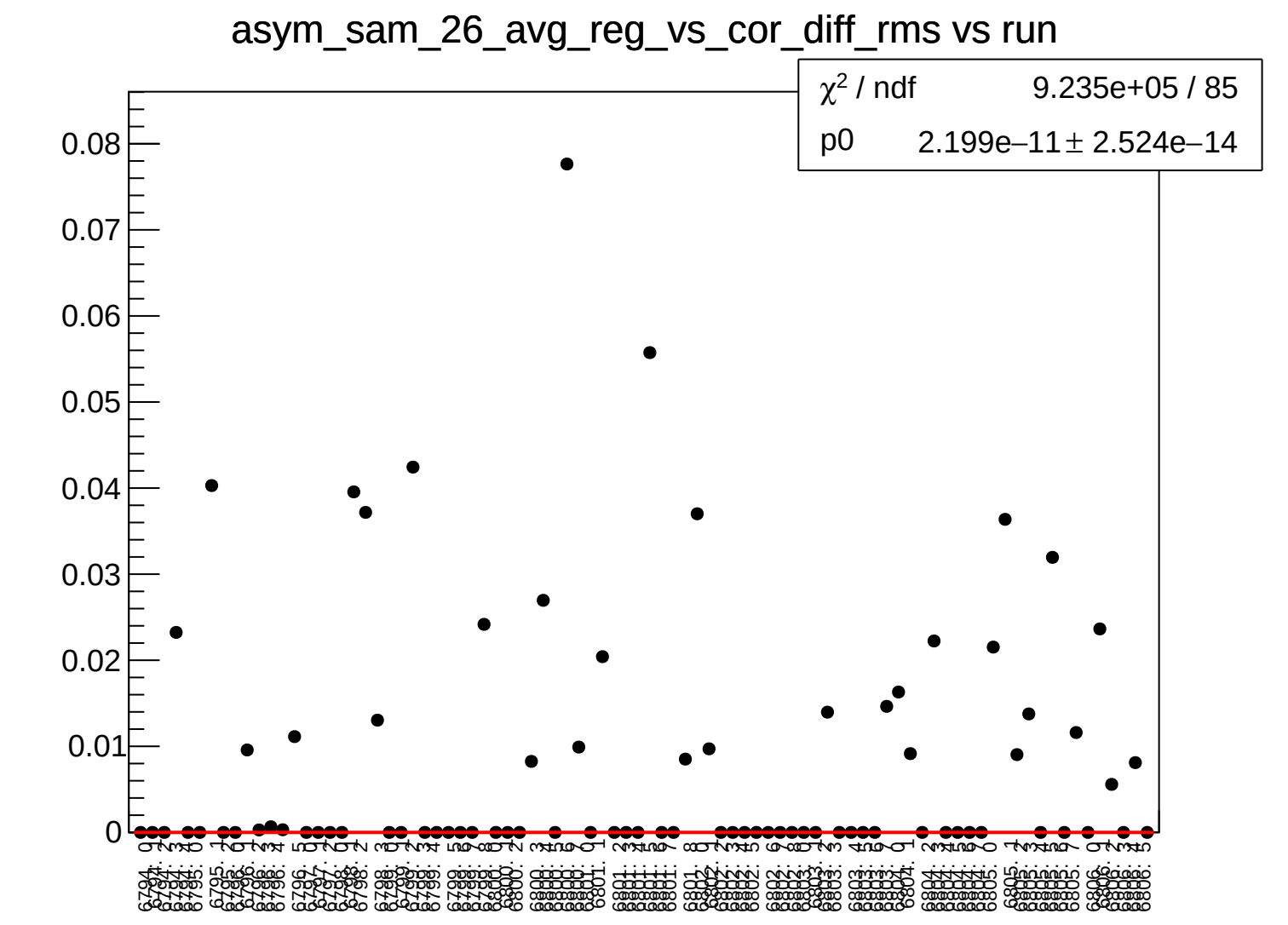

asym_sam_26_avg_mean vs run
χ² / ndf 81.13 / 85
p0 −343.7 ± 795.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 1225
Std Dev 0
2
1
0
−1
−2

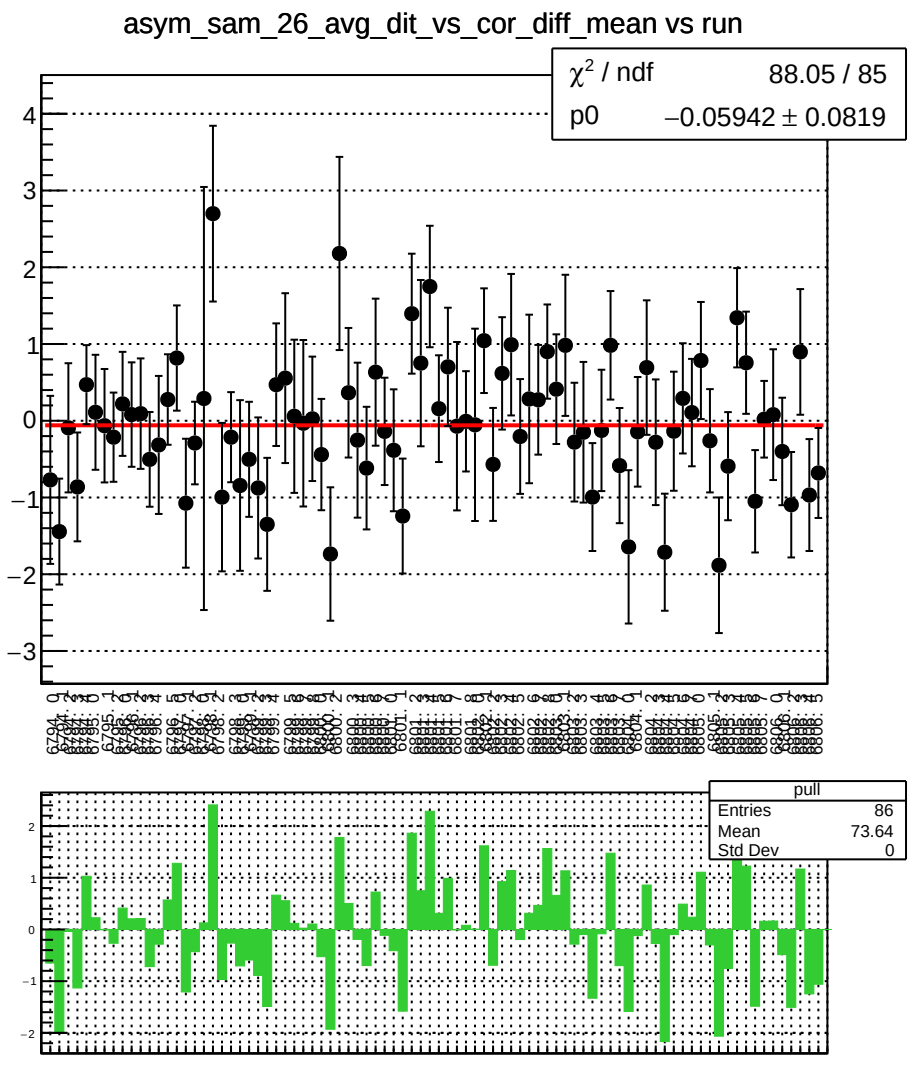

pull1D
Entries 86
Mean 0.0002585
Std Dev 0.9713
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

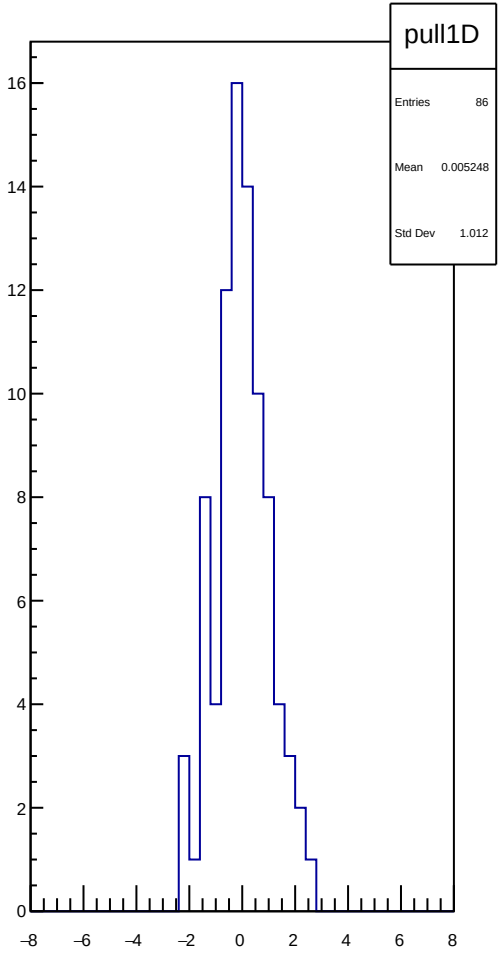

asym_sam_26_avg_rms vs run
χ² / ndf 1.084e+04 / 85
p0 727.6 ± 0.5628
1000
950
900
850
800
750
700
650
600

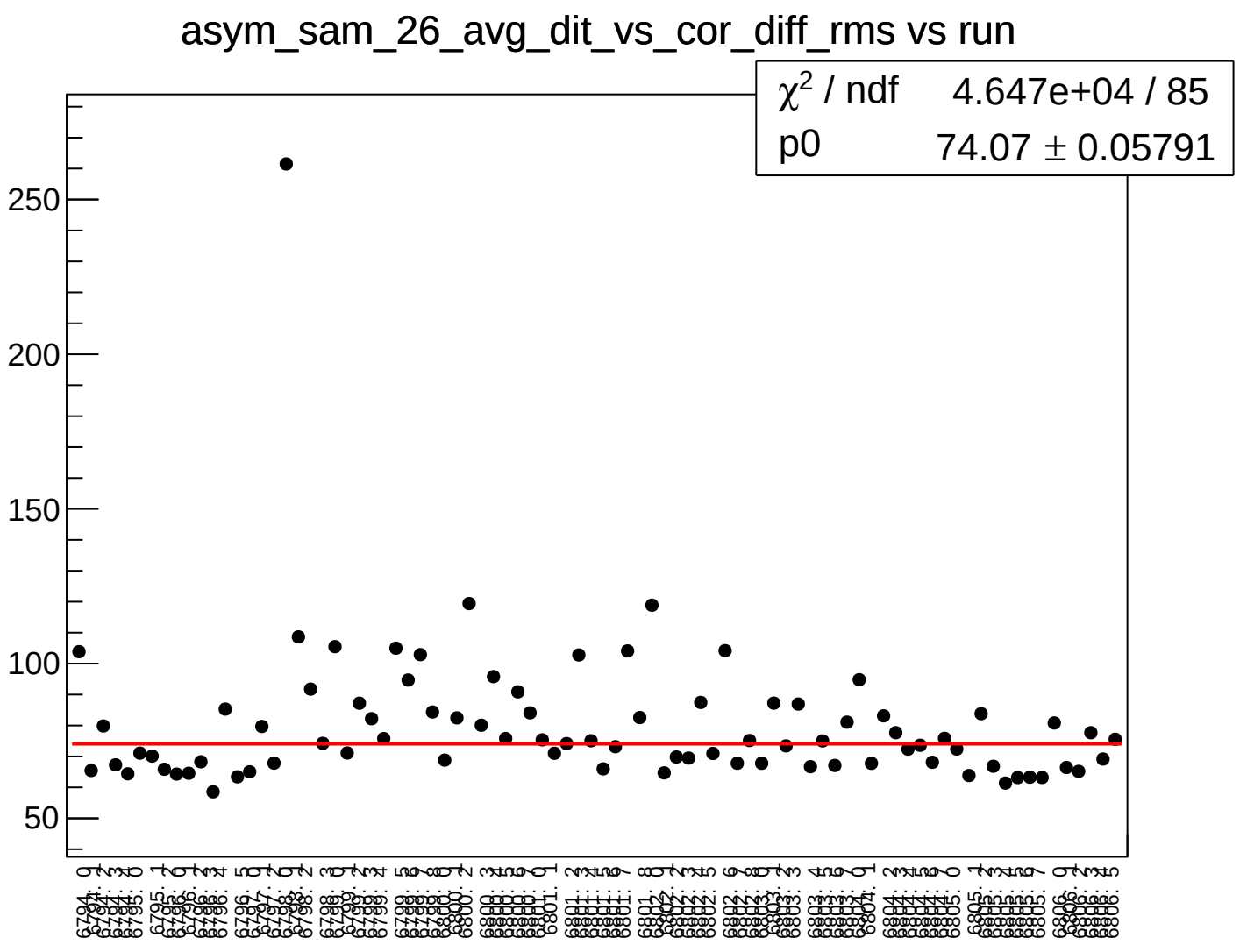

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 85
p0 −4.31e−16 ± 3.569e−14
pull
Entries 86
Mean 29.51
Std Dev 0

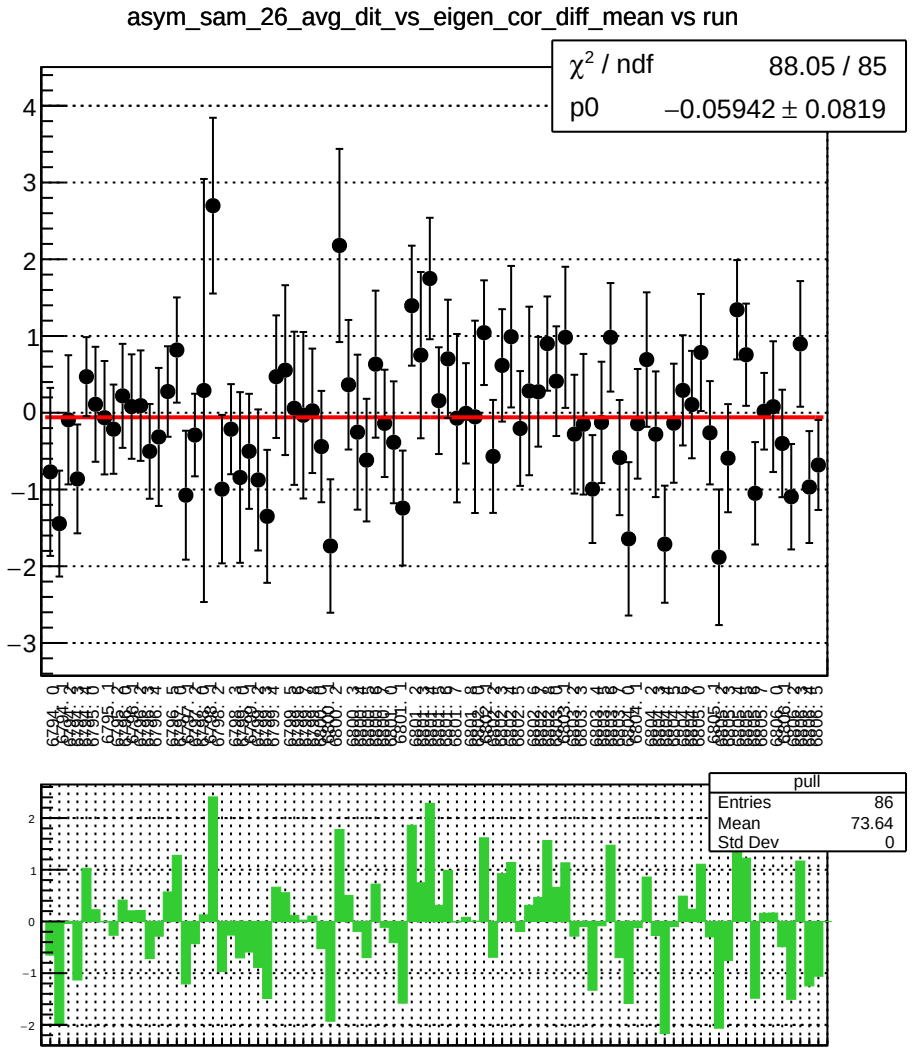

pull1D
Entries 86
Mean 0.07637
Std Dev 1.105

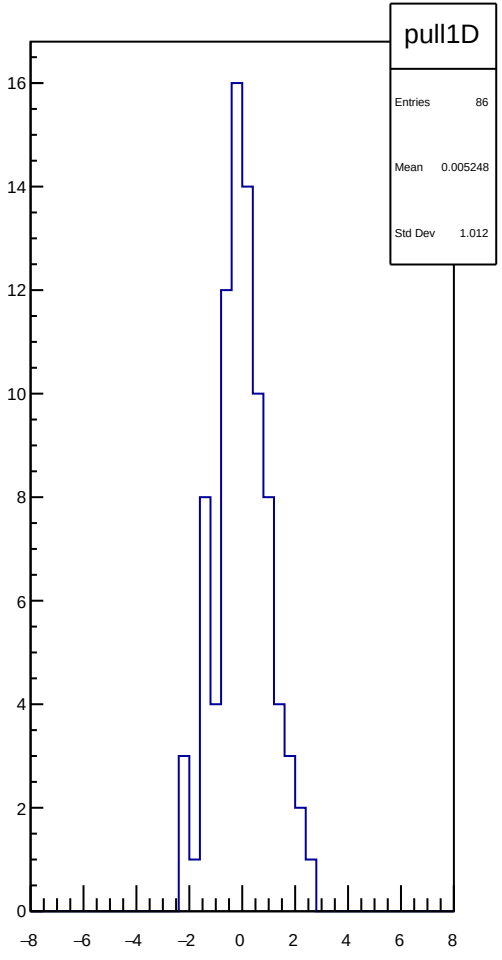

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.235e+05 / 85
p0 2.199e−11 ± 2.524e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

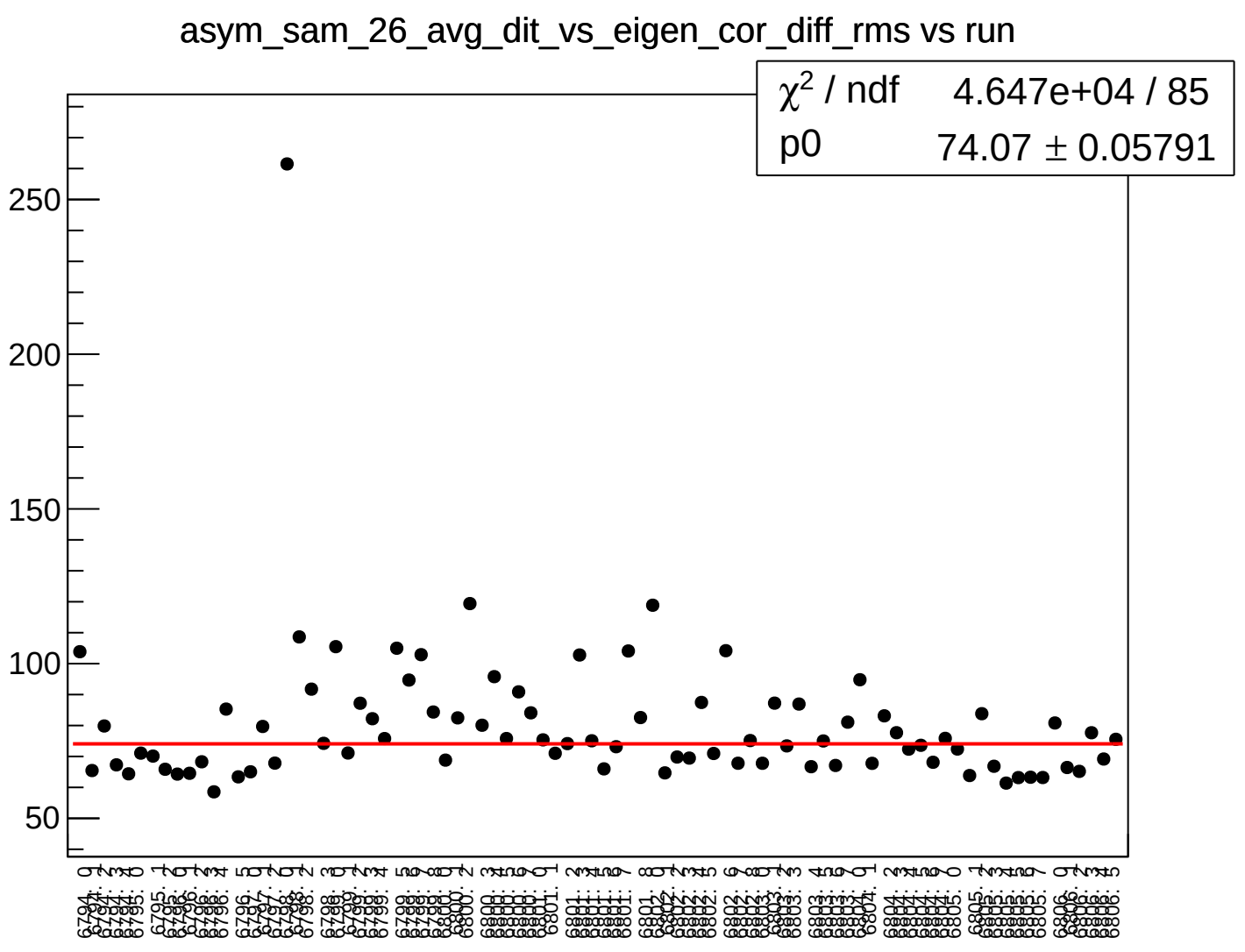

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.05 / 85
p0 −0.05942 ± 0.0819
pull
Entries 86
Mean 73.64
Std Dev 0

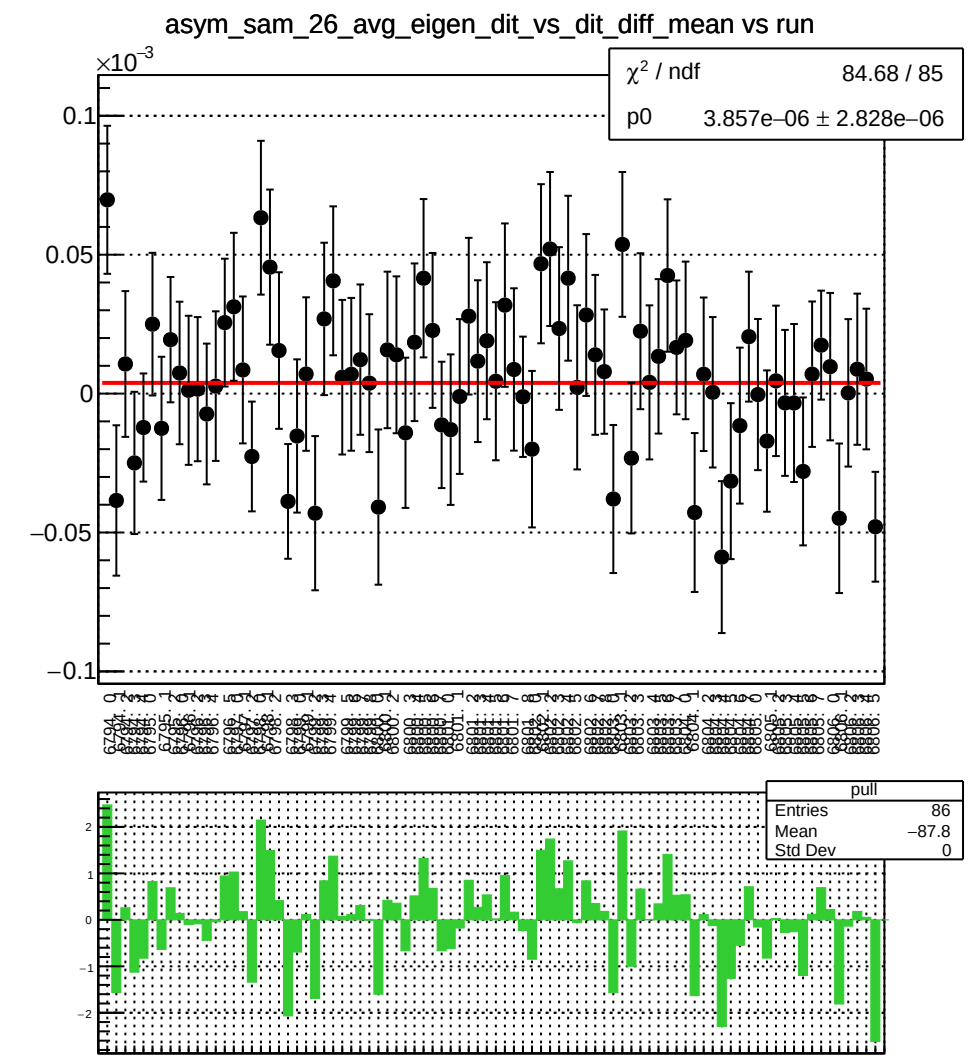

pull1D
Entries 86
Mean 0.005248
Std Dev 1.012

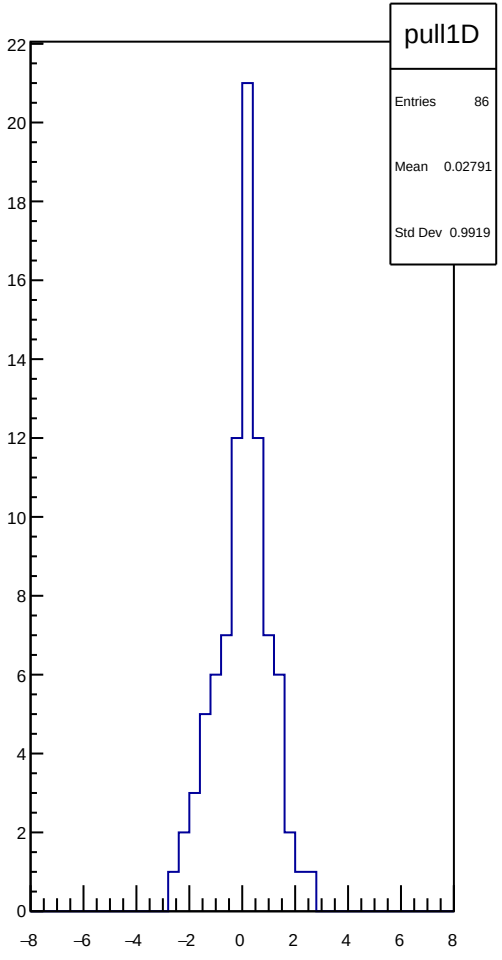

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 85
p0 74.07 ± 0.05791
250
200
150
100
50

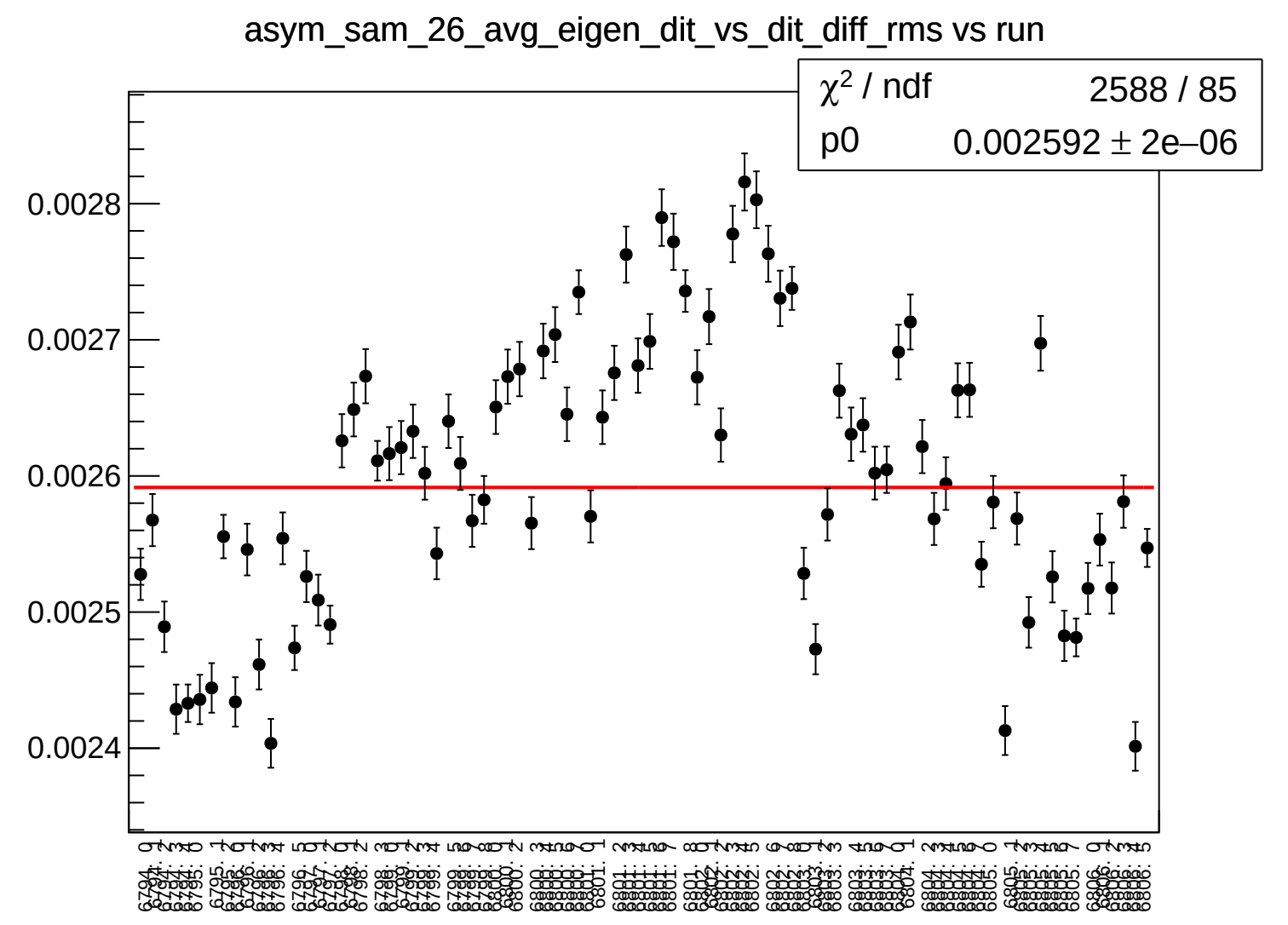

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.05 / 85
p0 −0.05942 ± 0.0819
pull
Entries 86
Mean 73.64
Std Dev 0

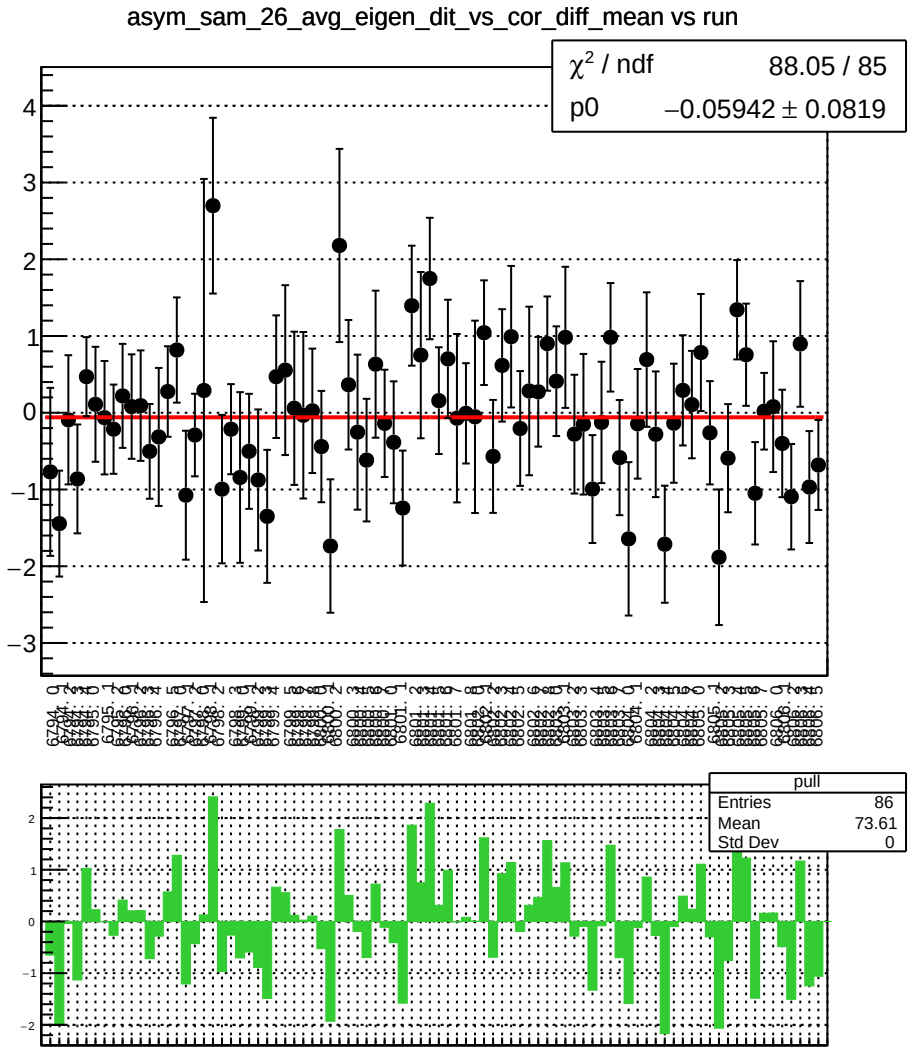

pull1D
Entries 86
Mean 0.005248
Std Dev 1.012

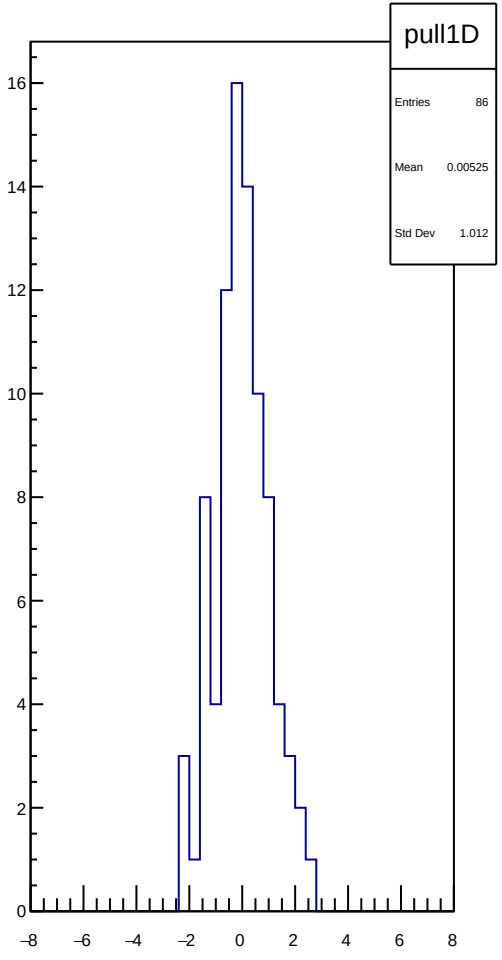

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 85
p0 74.07 ± 0.05791
250
200
150
100
50

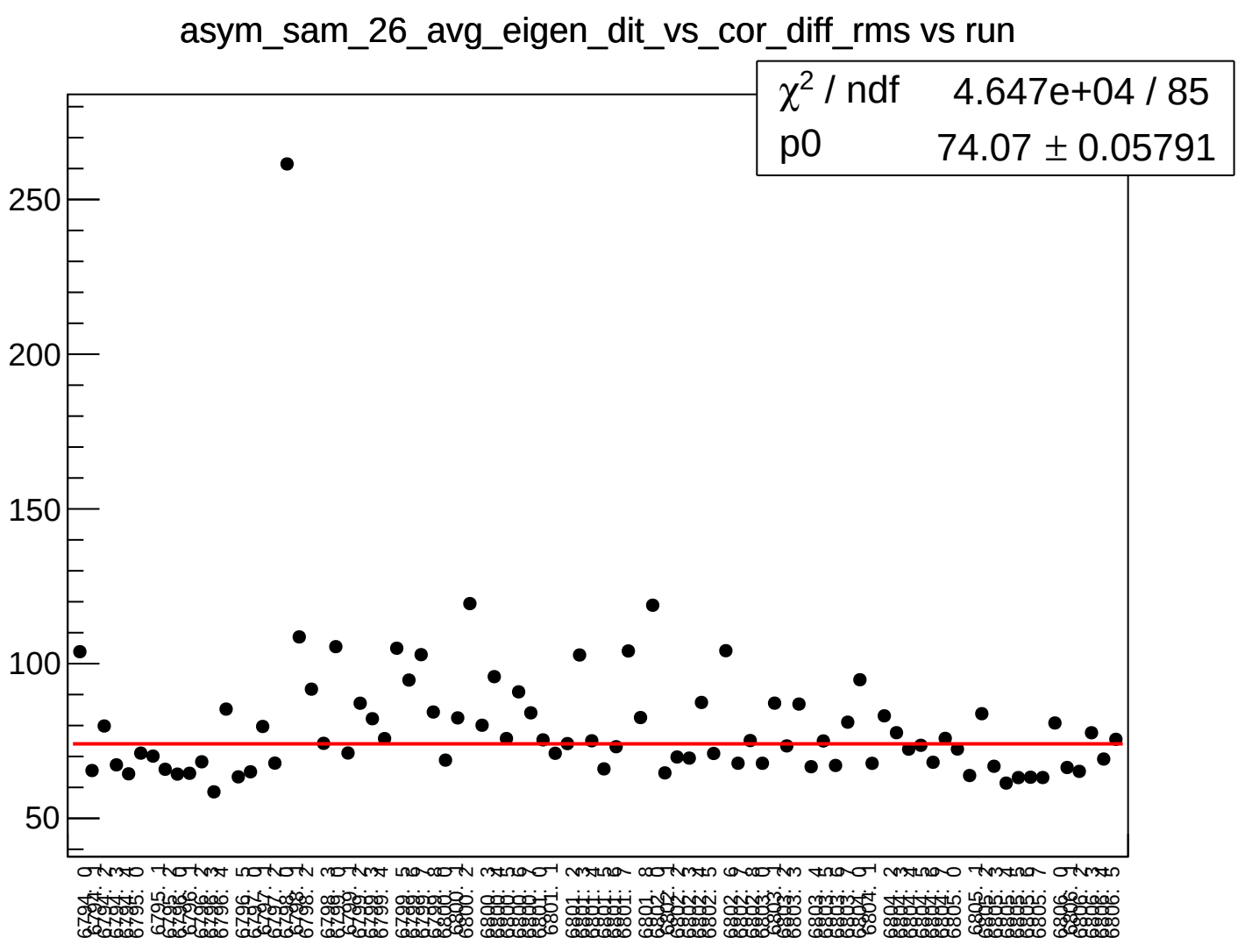

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.68 / 85
p0 3.857e−06 ± 2.828e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 86
Mean −87.8
Std Dev 0
2
1
0
−1
−2

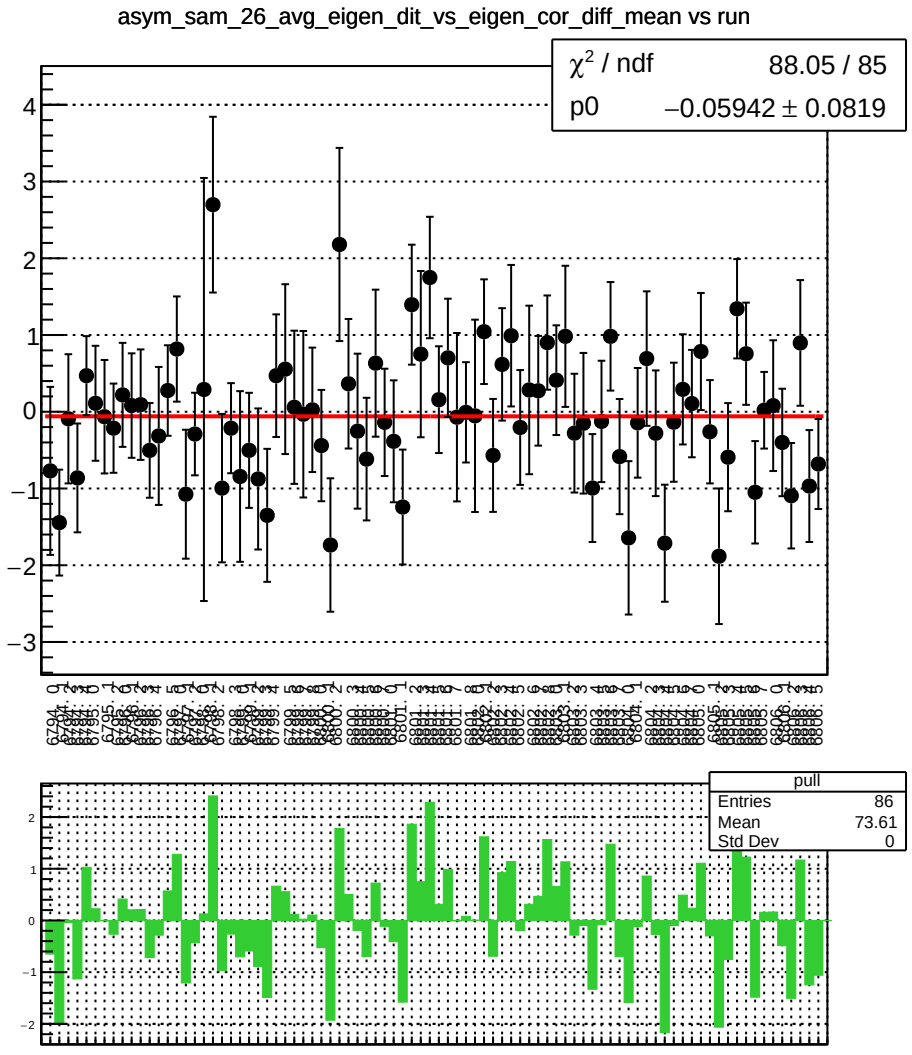

pull1D
Entries 86
Mean 0.02791
Std Dev 0.9919
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

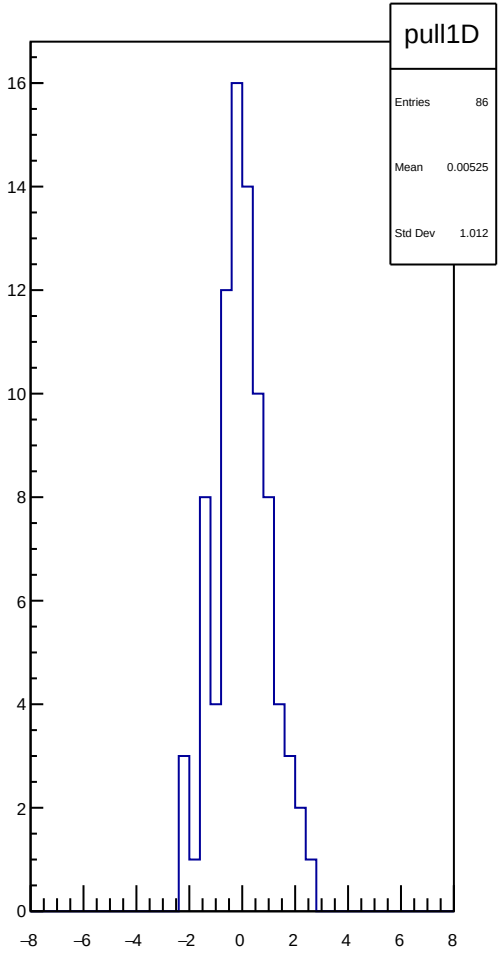

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2588 / 85
p0 0.002592 ± 2e−06
0.0028
0.0027
0.0026
0.0025
0.0024

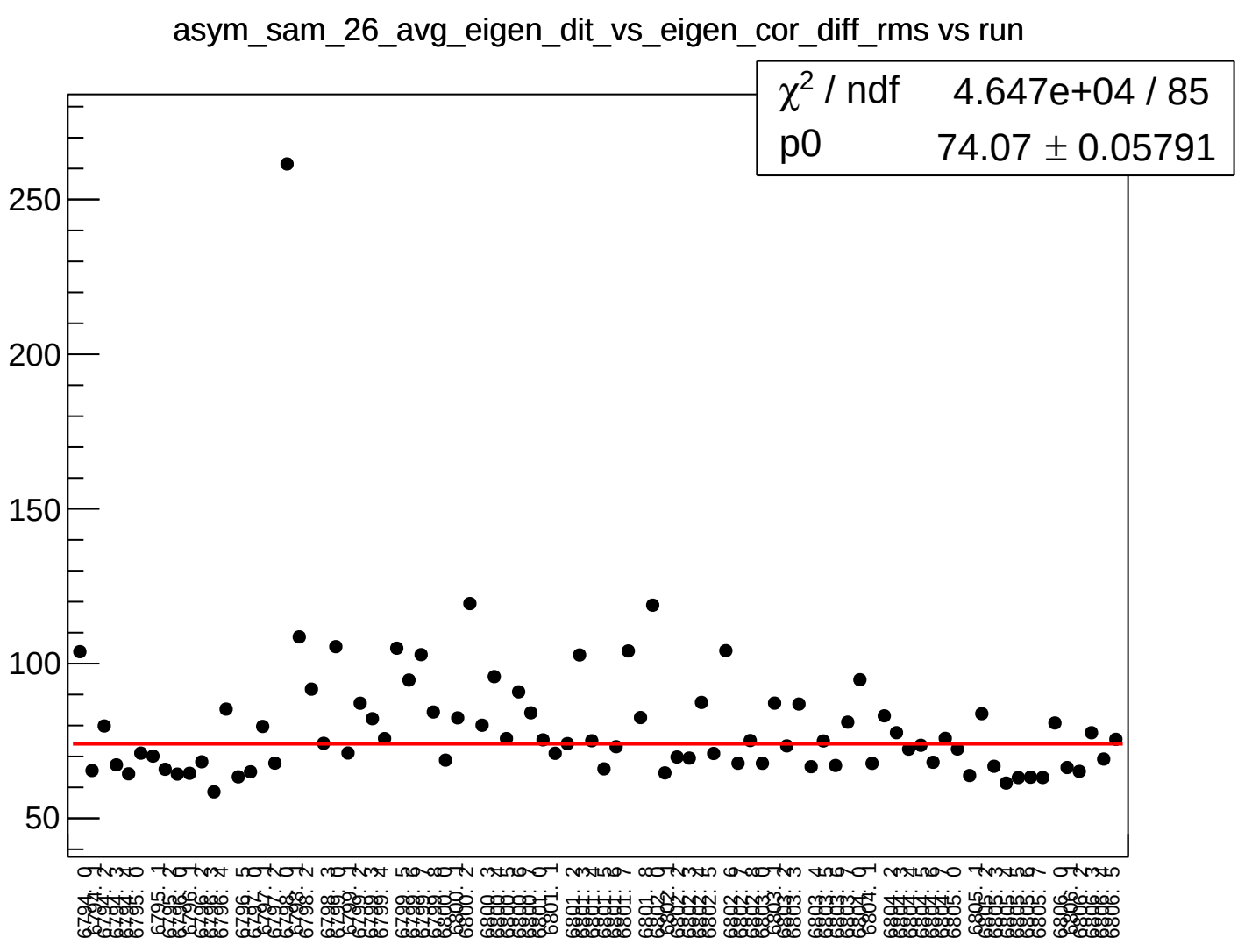

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.05 / 85
p0 −0.05942 ± 0.0819
pull
Entries 86
Mean 73.61
Std Dev 0

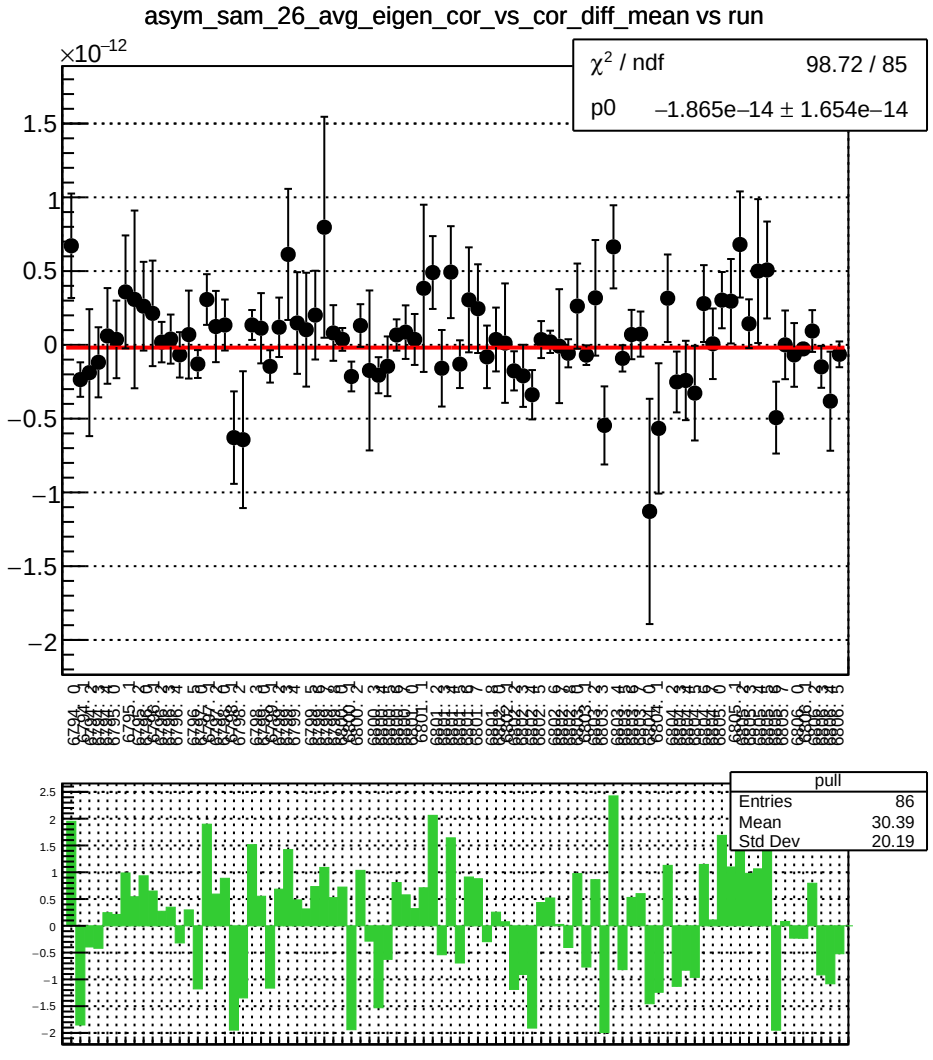

pull1D
Entries 86
Mean 0.00525
Std Dev 1.012

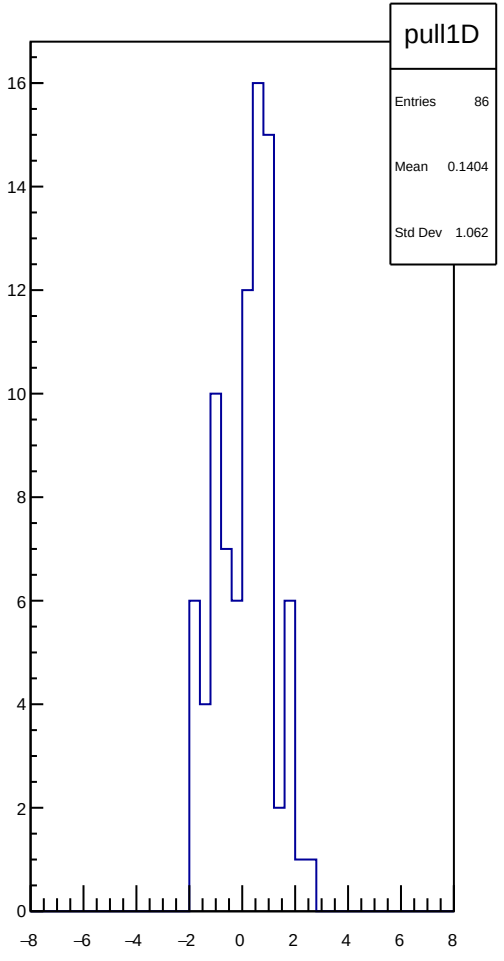

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.647e+04 / 85
p0 74.07 ± 0.05791
250
200
150
100
50

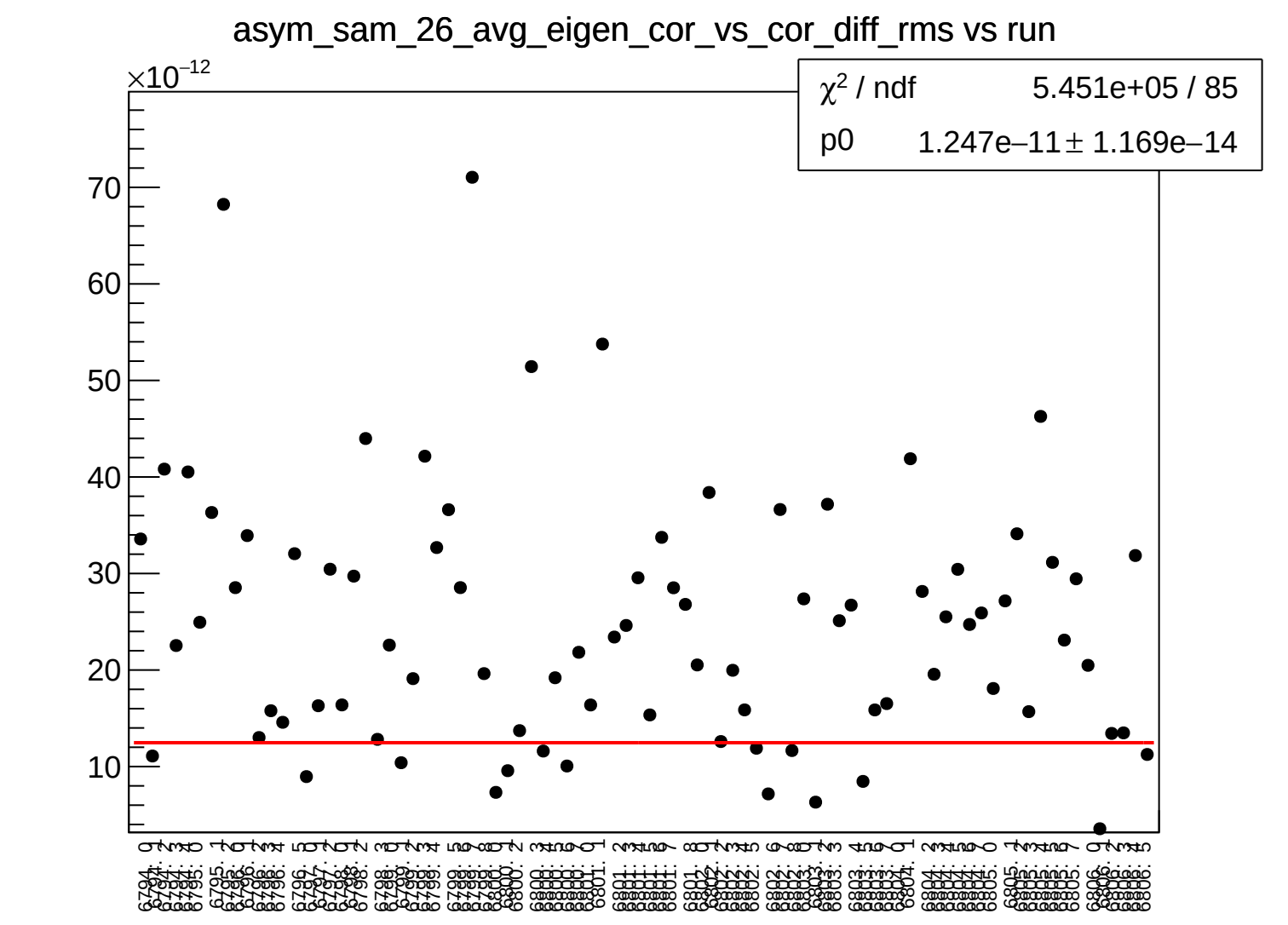

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.05 / 85
p0 −0.05942 ± 0.0819
pull
Entries 86
Mean 73.61
Std Dev 0

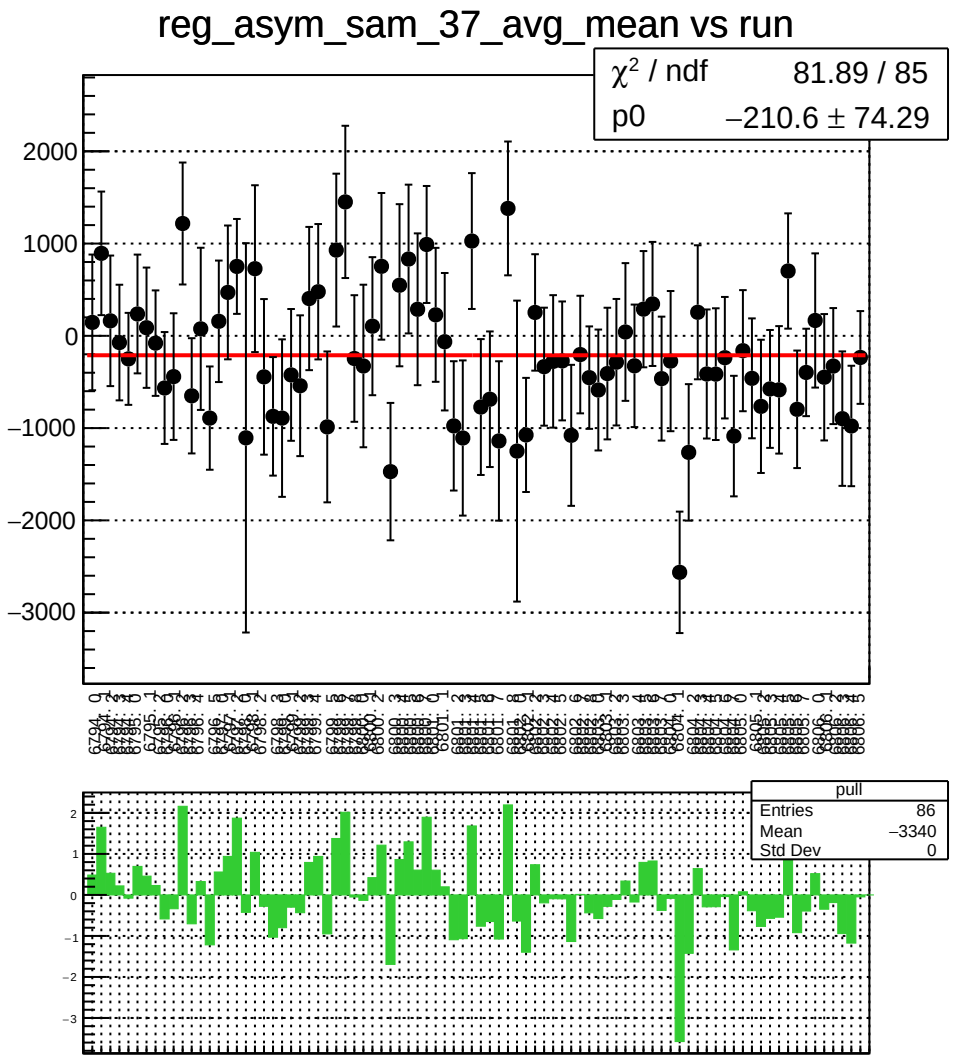

pull1D
Entries 86
Mean 0.00525
Std Dev 1.012

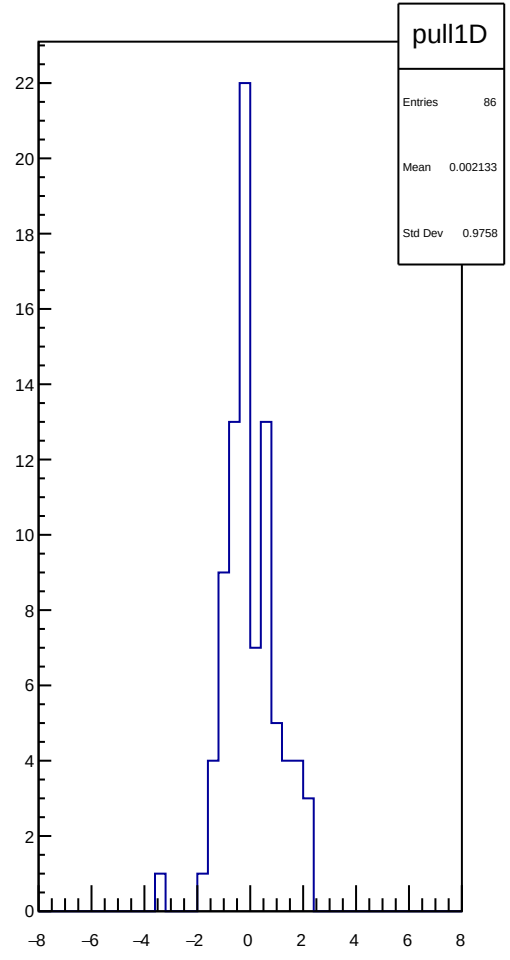

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ2 / ndf 4.647e+04 / 85
p0 74.07 ± 0.05791
250
200
150
100
50

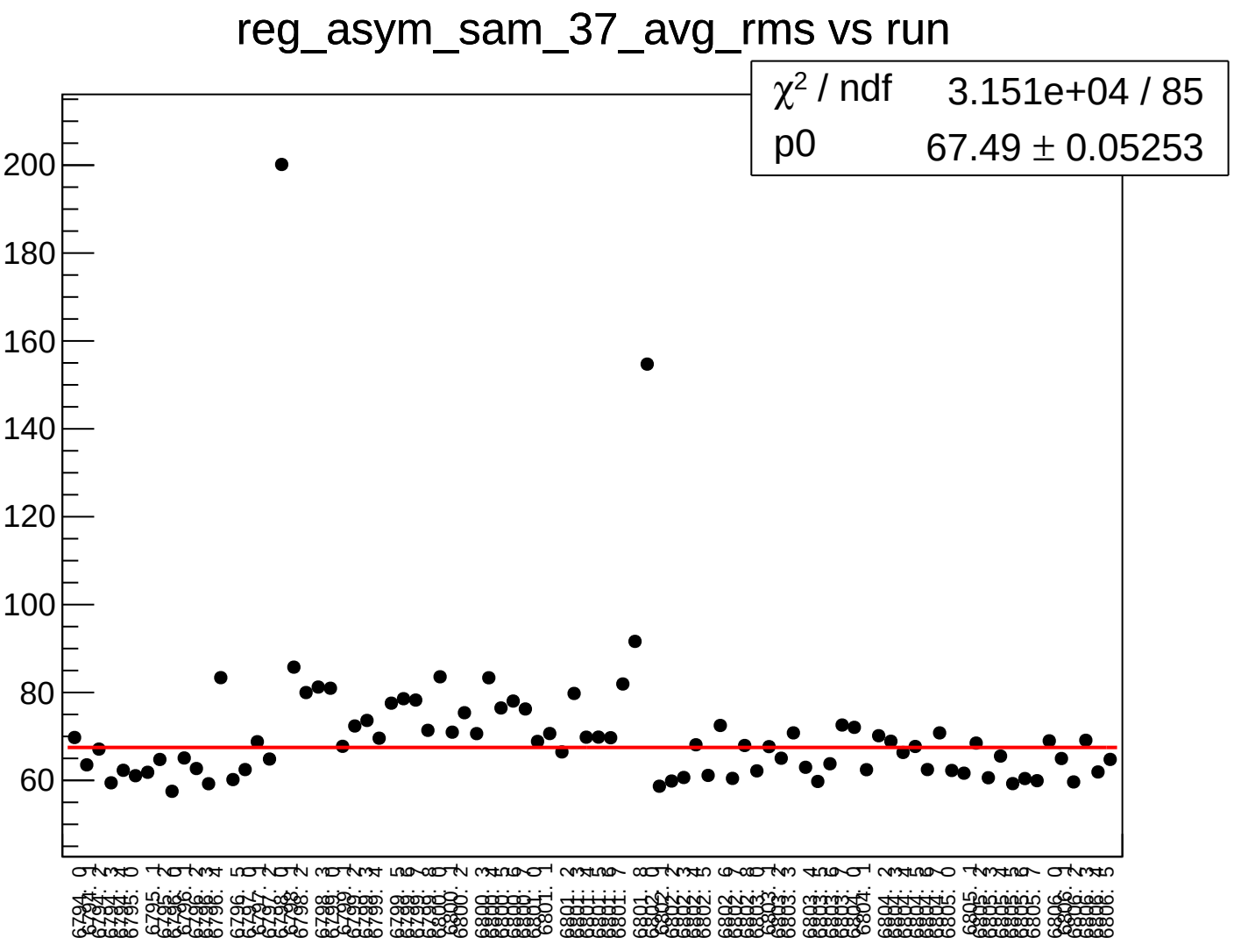

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.72 / 85
p0 −1.865e−14 ± 1.654e−14
pull
Entries 86
Mean 30.39
Std Dev 20.19

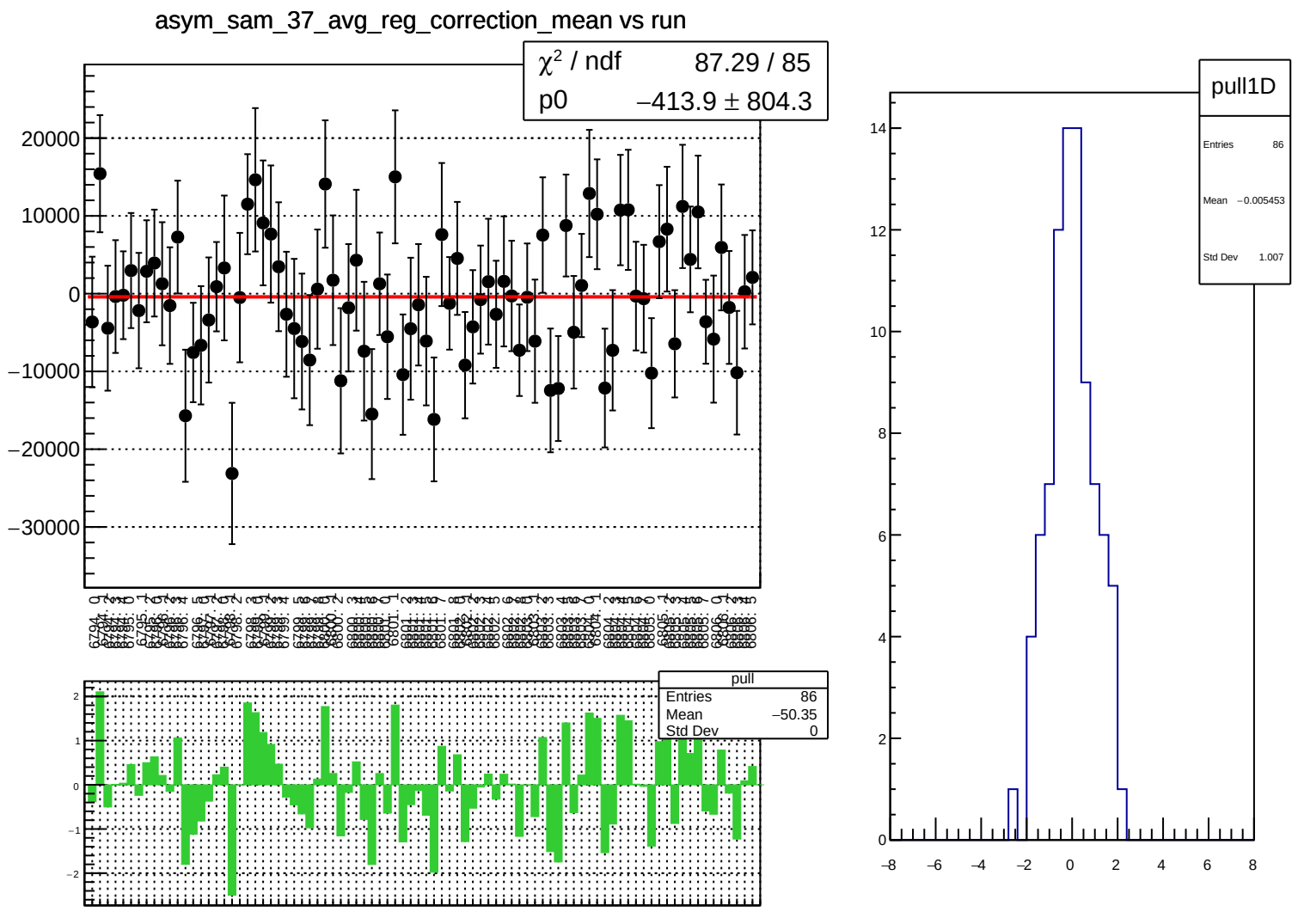

pull1D
Entries 86
Mean 0.1404
Std Dev 1.062

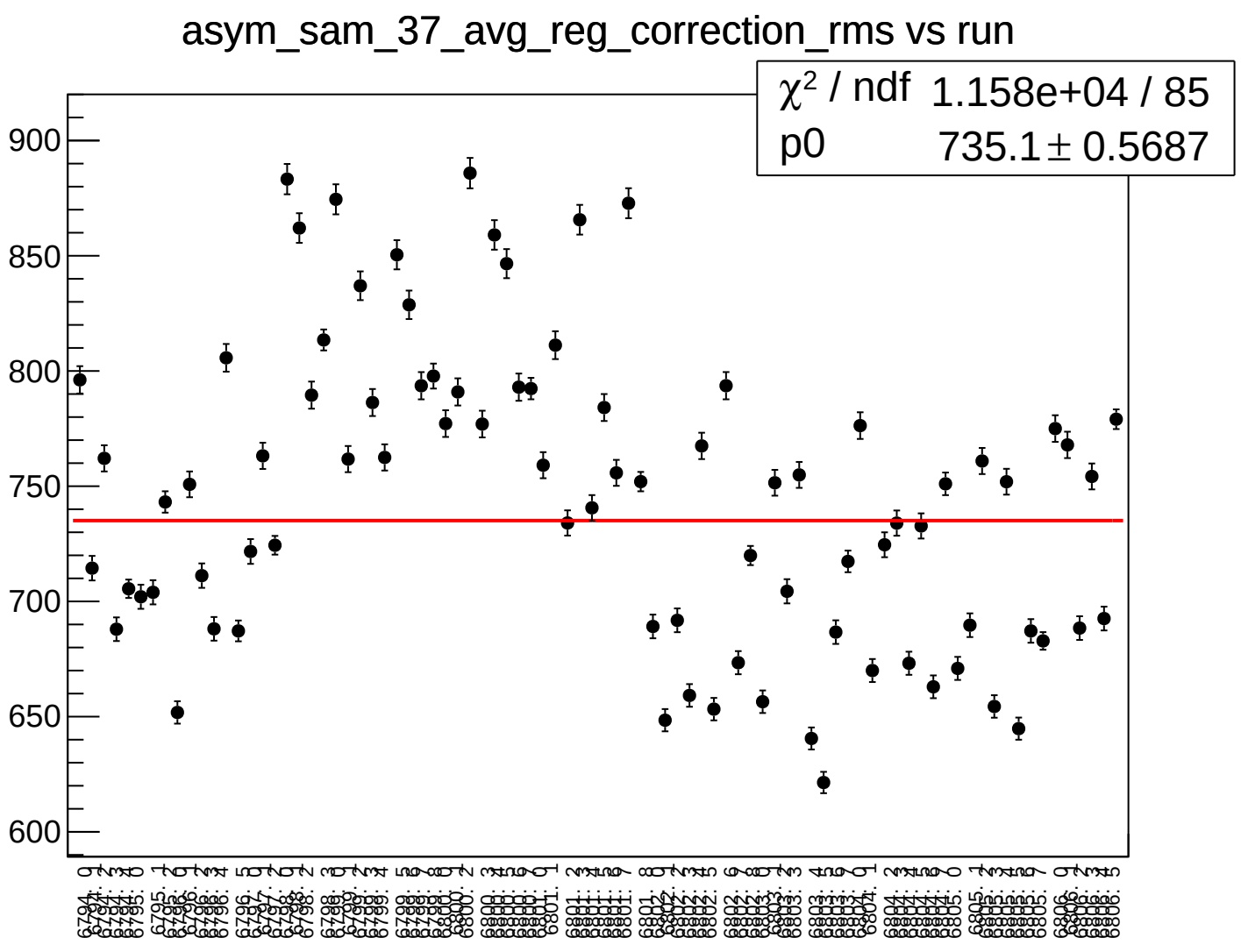

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.451e+05 / 85
p0 1.247e−11 ± 1.169e−14
70
60
50
40
30
20
10

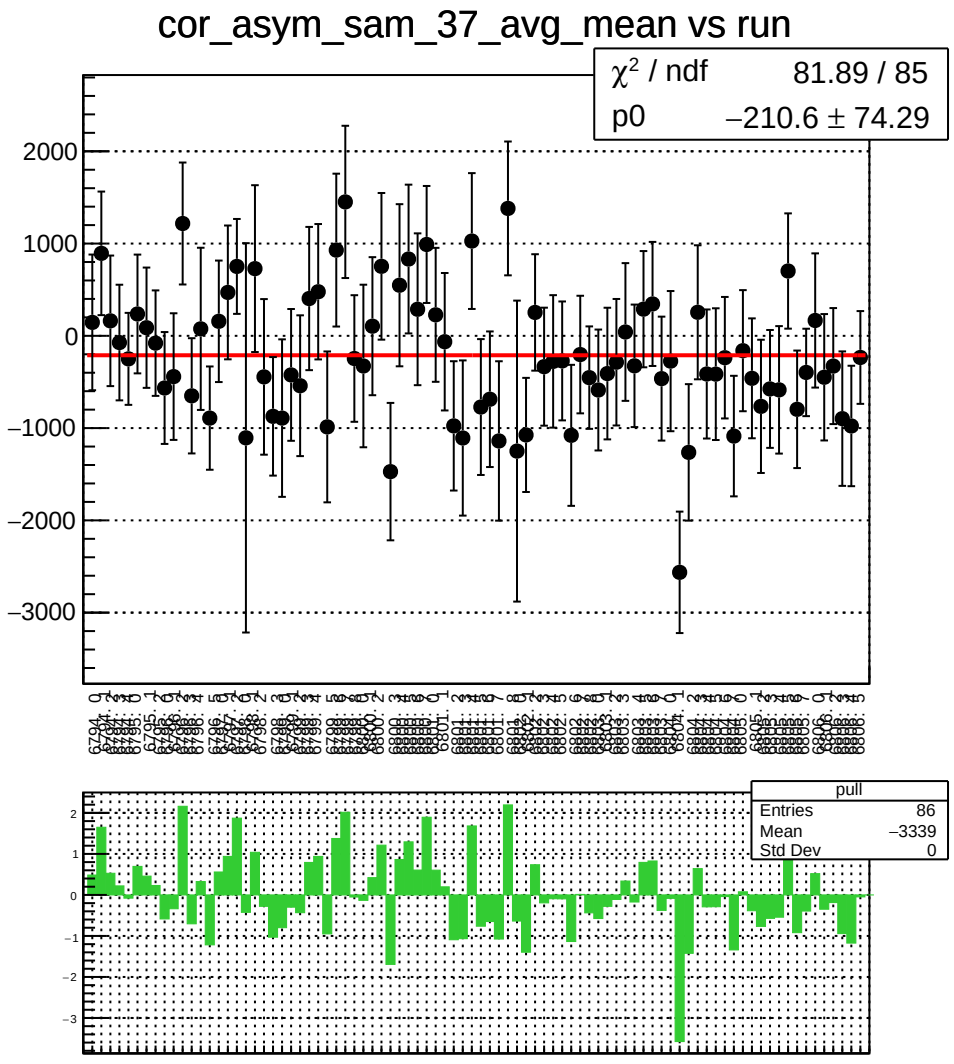

reg_asym_sam_37_avg_mean vs run
χ² / ndf 81.89 / 85
p0 −210.6 ± 74.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −3340
Std Dev 0
2
1
0
−1
−2
−3

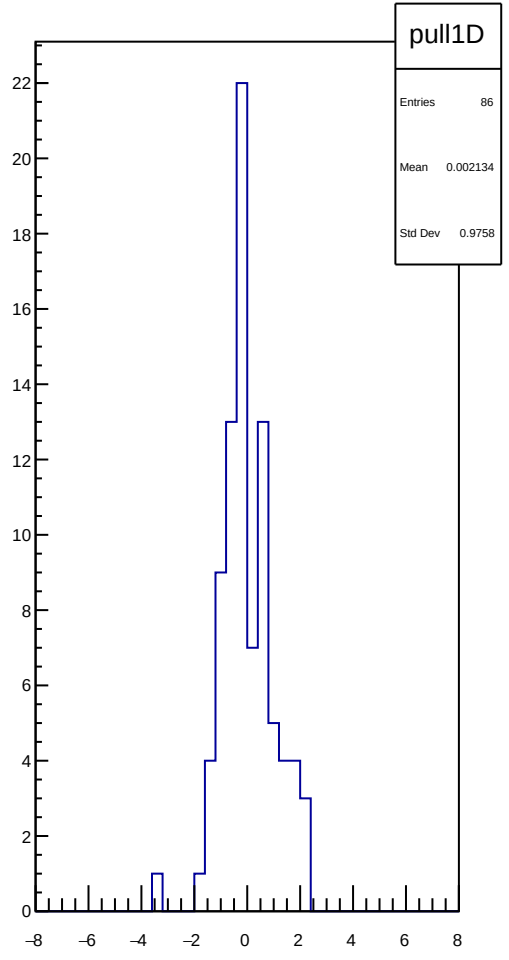

pull1D
Entries 86
Mean 0.002133
Std Dev 0.9758
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

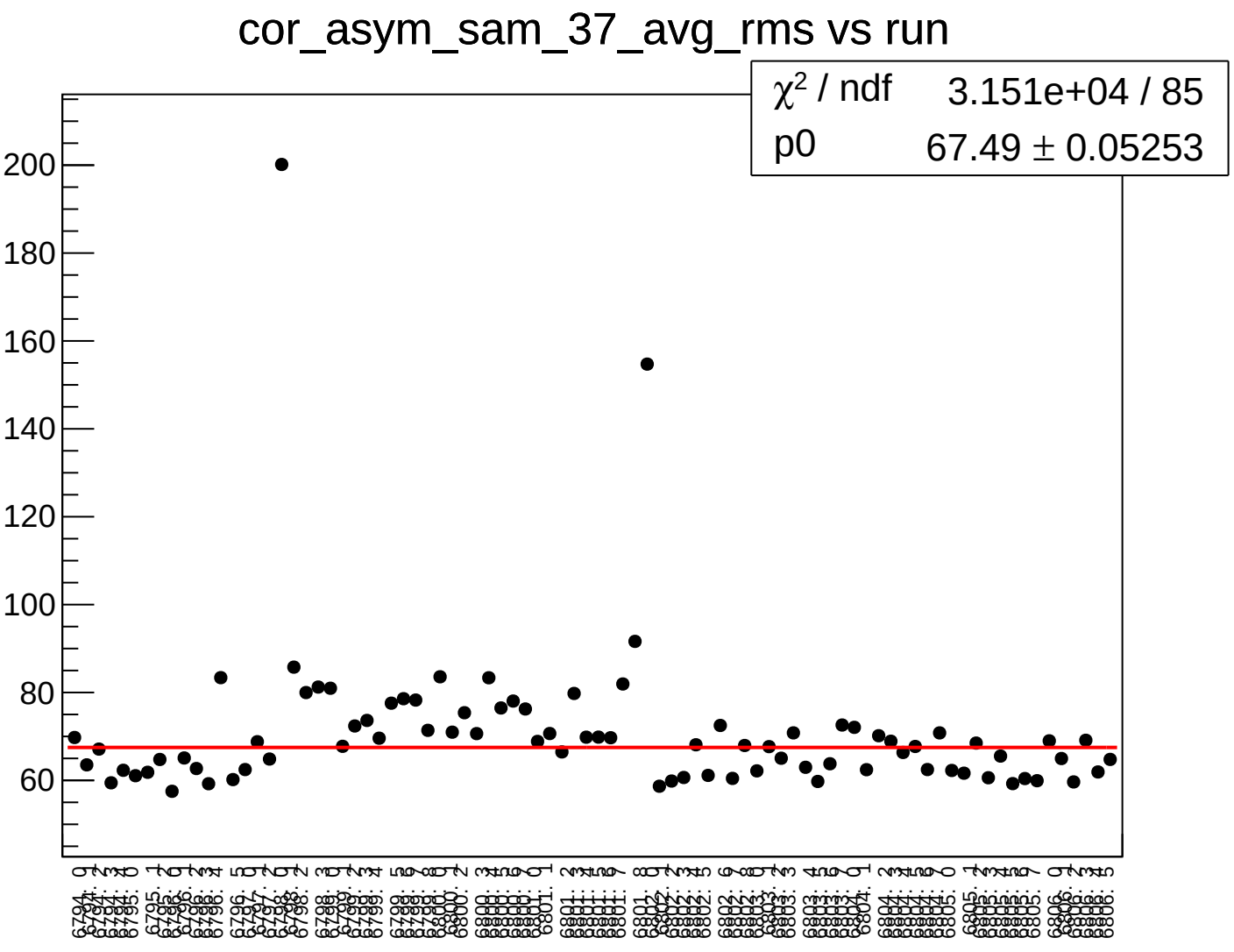

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.151e+04 / 85
p0 67.49 ± 0.05253
200
180
160
140
120
100
80
60

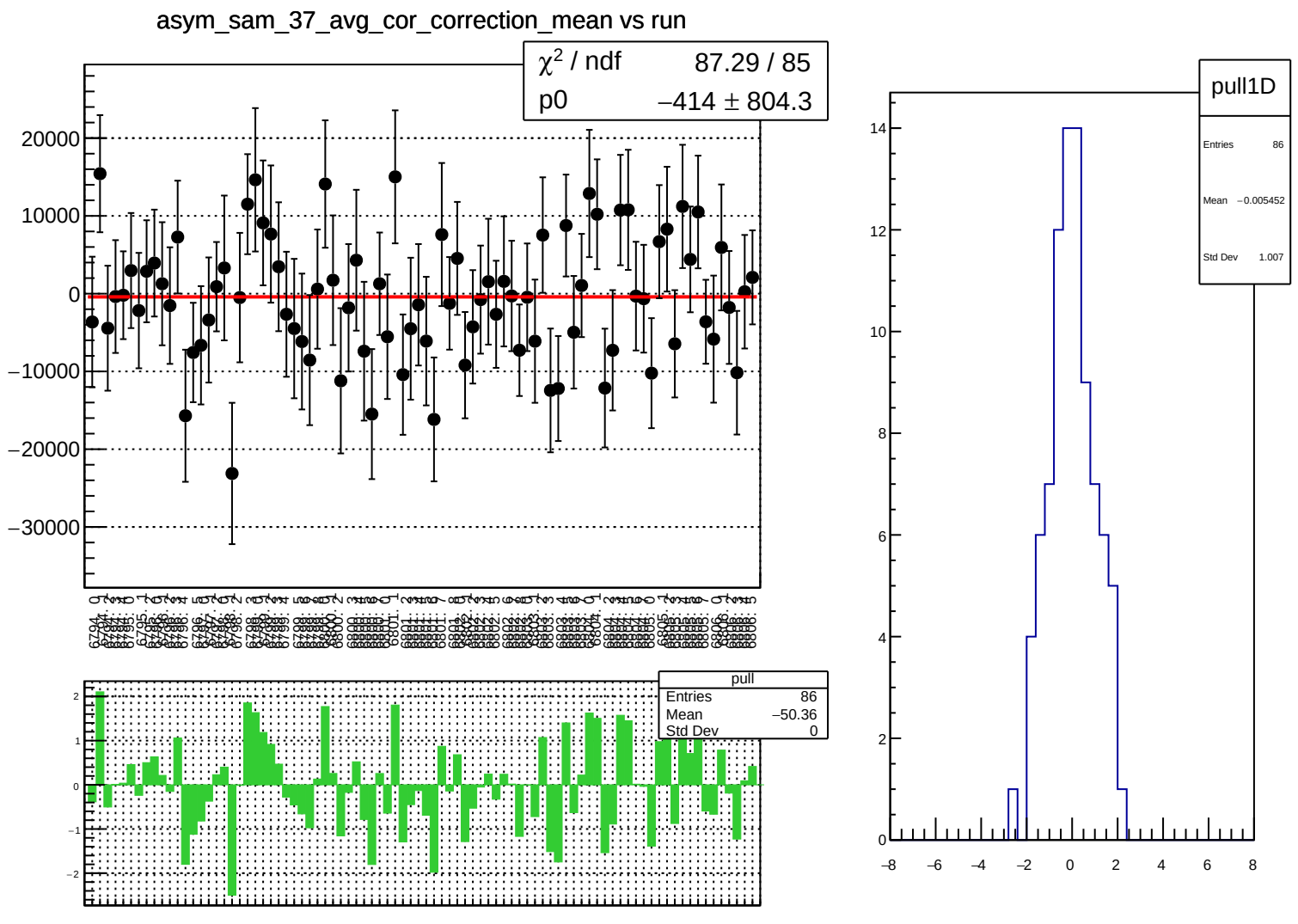

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 87.29 / 85
p0 −413.9 ± 804.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −50.35
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.005453
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

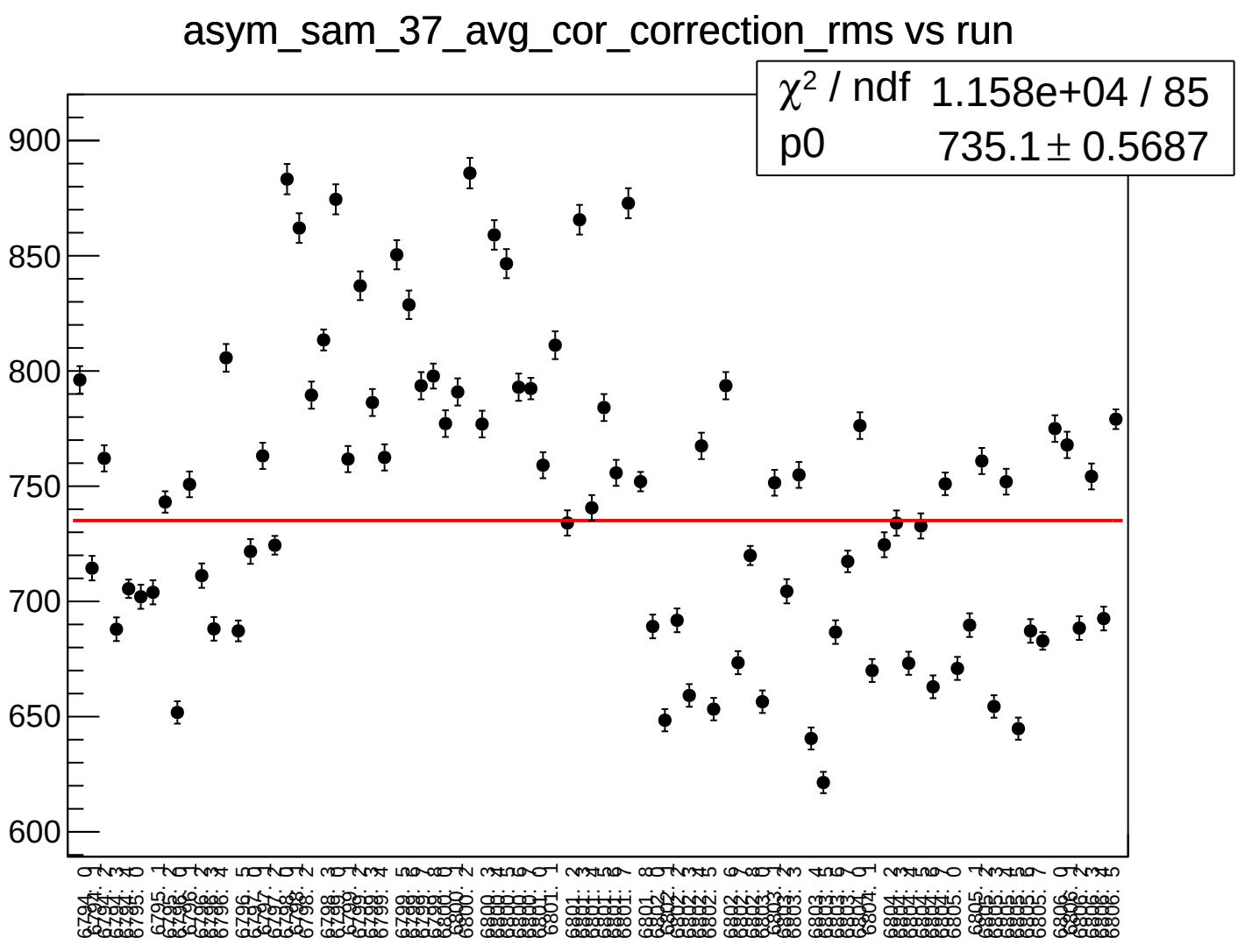

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 1.158e+04 / 85
p0 735.1 ± 0.5687
900
850
800
750
700
650
600

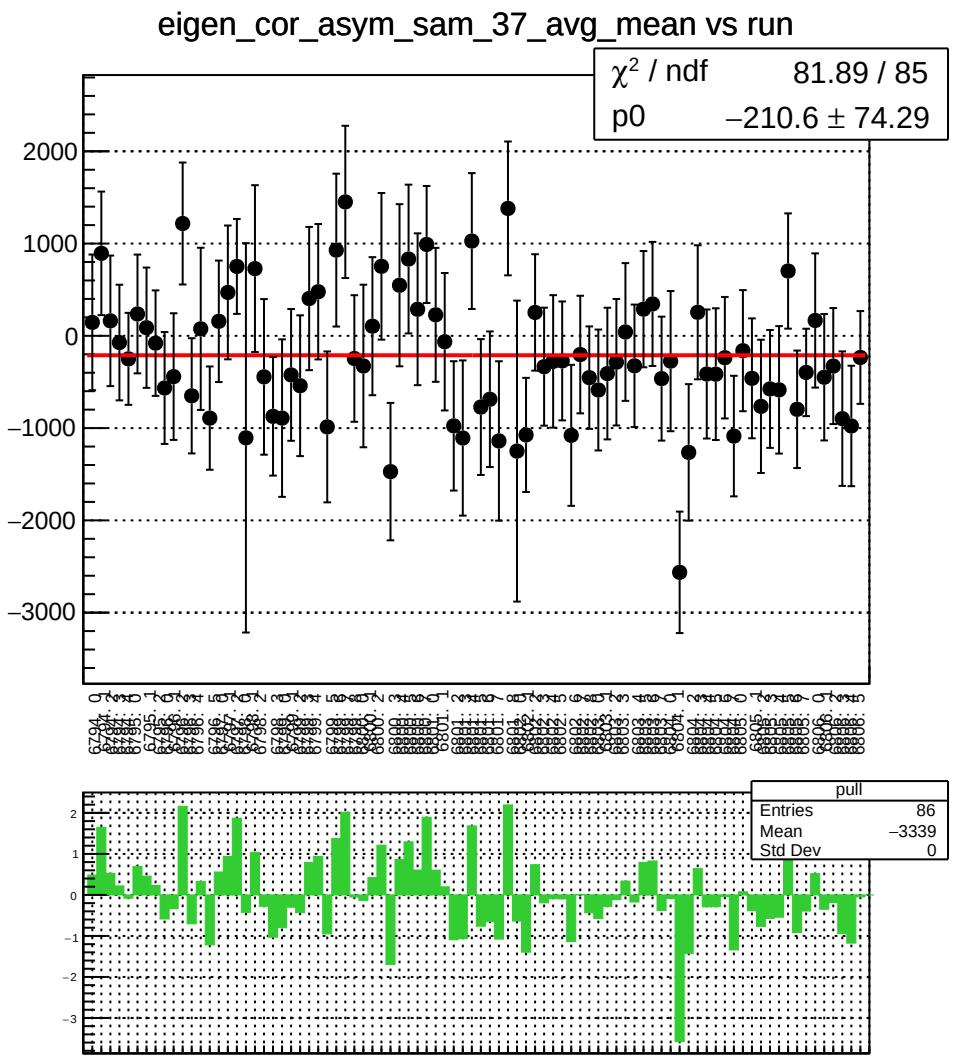

cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.89 / 85
p0 −210.6 ± 74.29
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −3339
Std Dev 0
2
1
0
−1
−2
−3

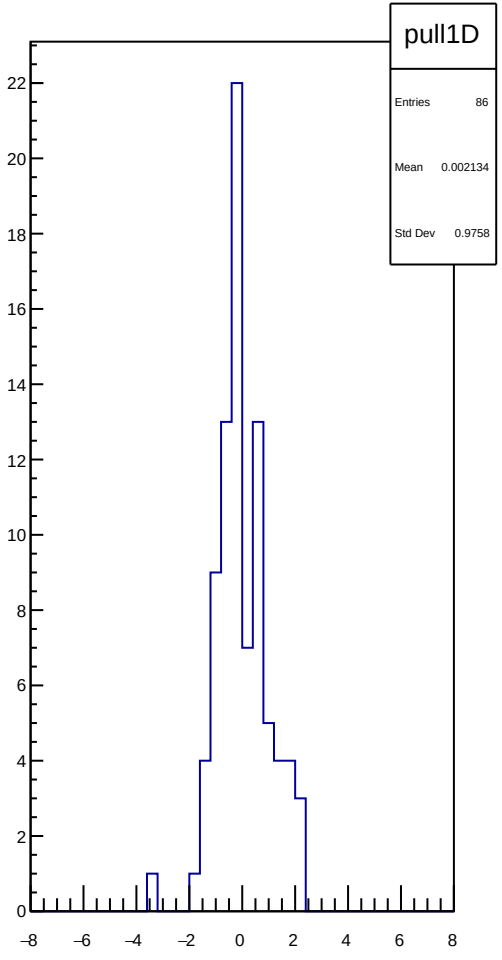

pull1D
Entries 86
Mean 0.002134
Std Dev 0.9758
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

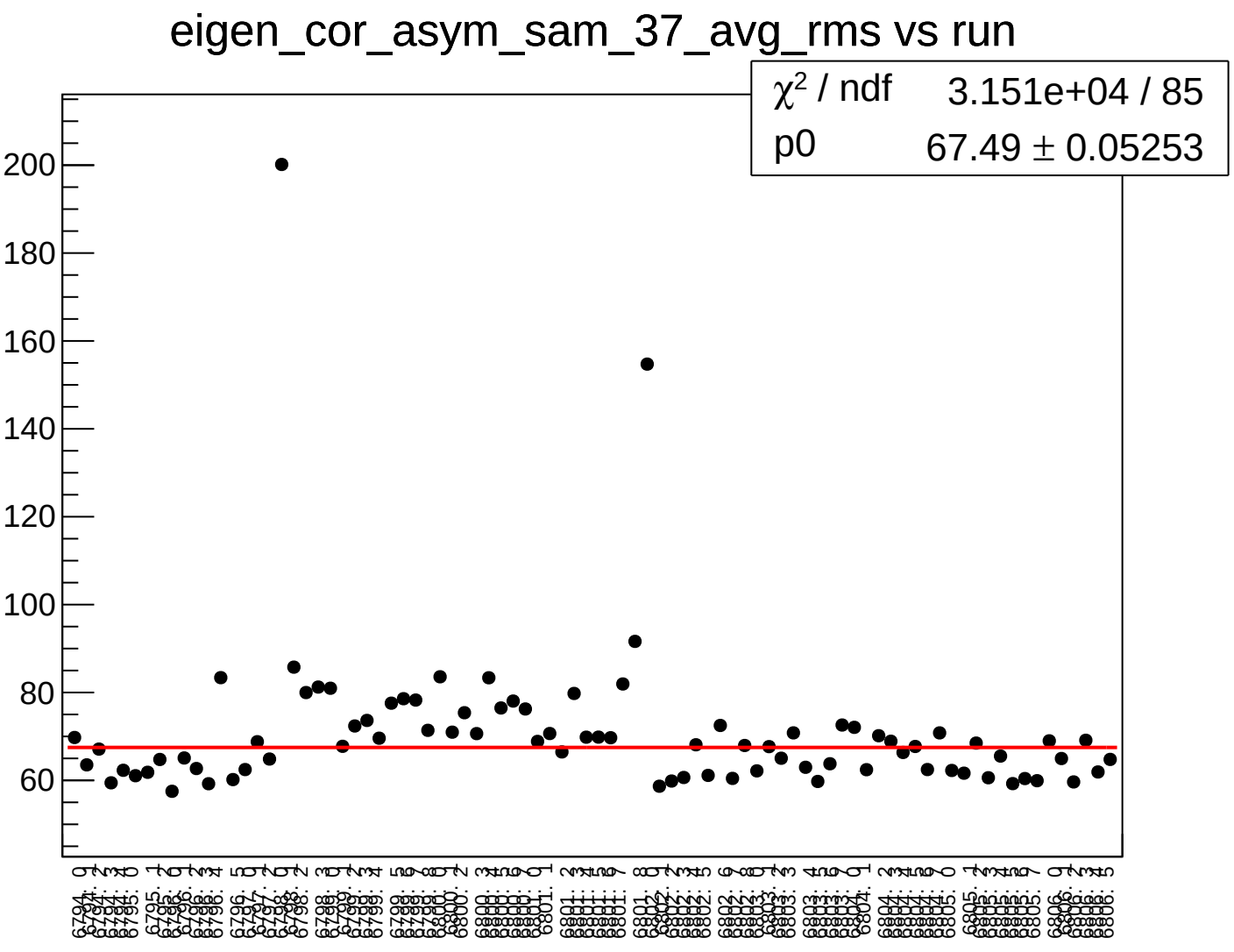

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.151e+04 / 85
p0 67.49 ± 0.05253
200
180
160
140
120
100
80
60

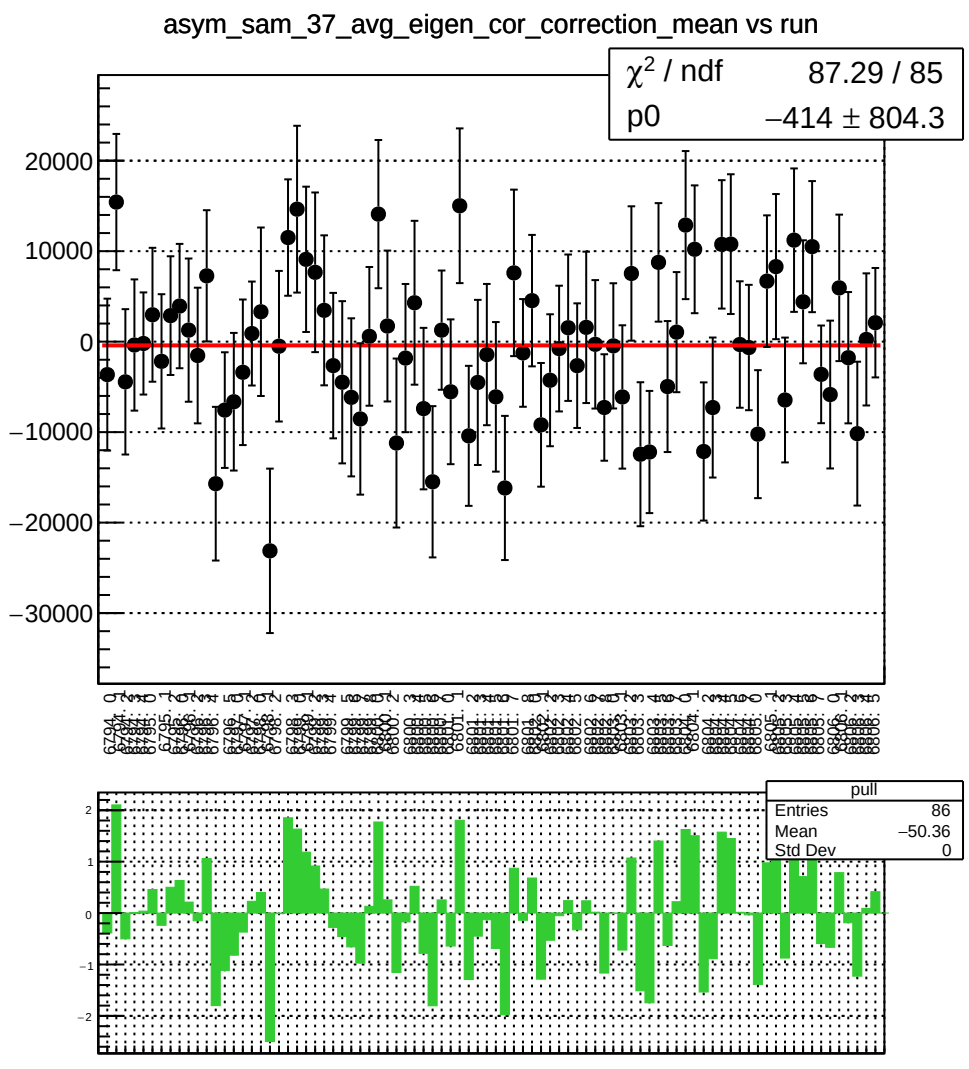

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 87.29 / 85
p0 −414 ± 804.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −50.36
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.005452
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

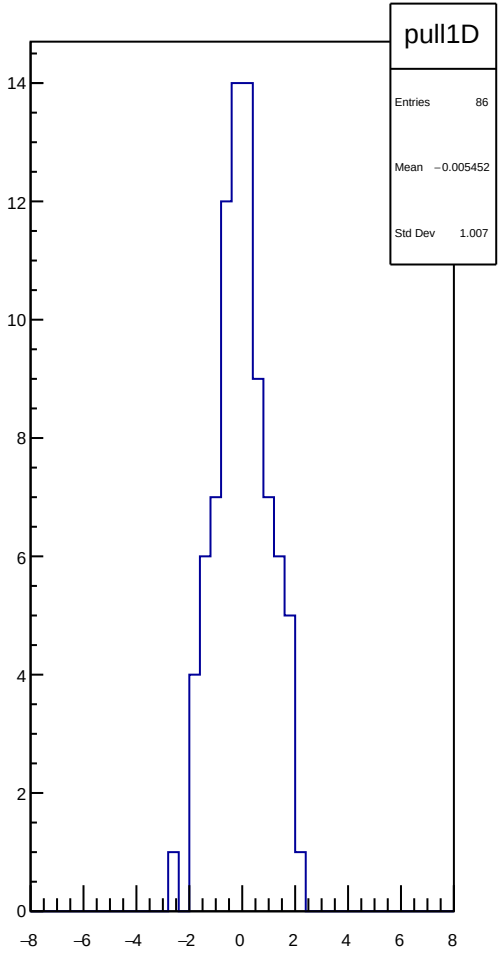

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 85
p0 735.1 ± 0.5687
900
850
800
750
700
650
600

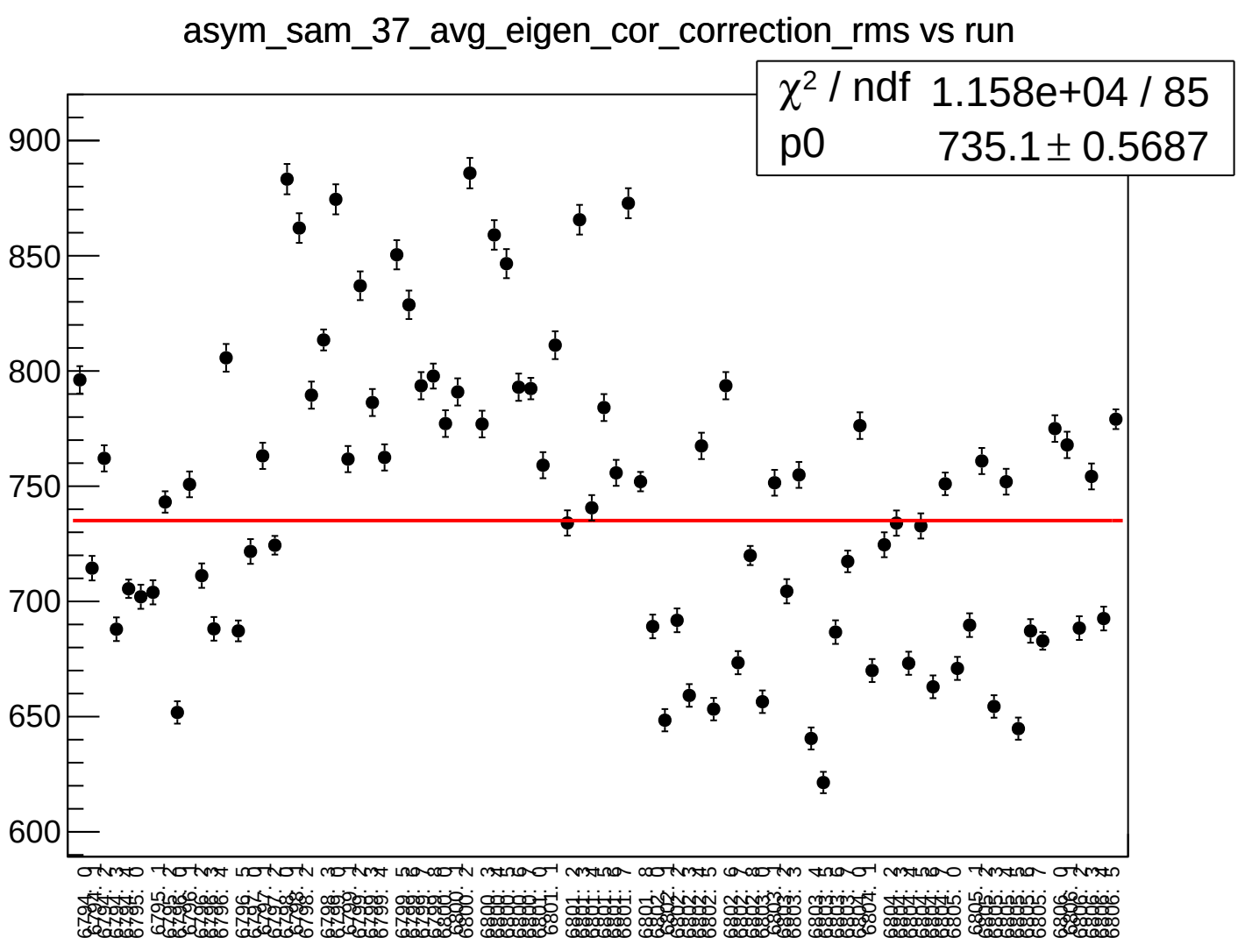

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 81.89 / 85
p0 −210.6 ± 74.29
pull
Entries 86
Mean −3339
Std Dev 0

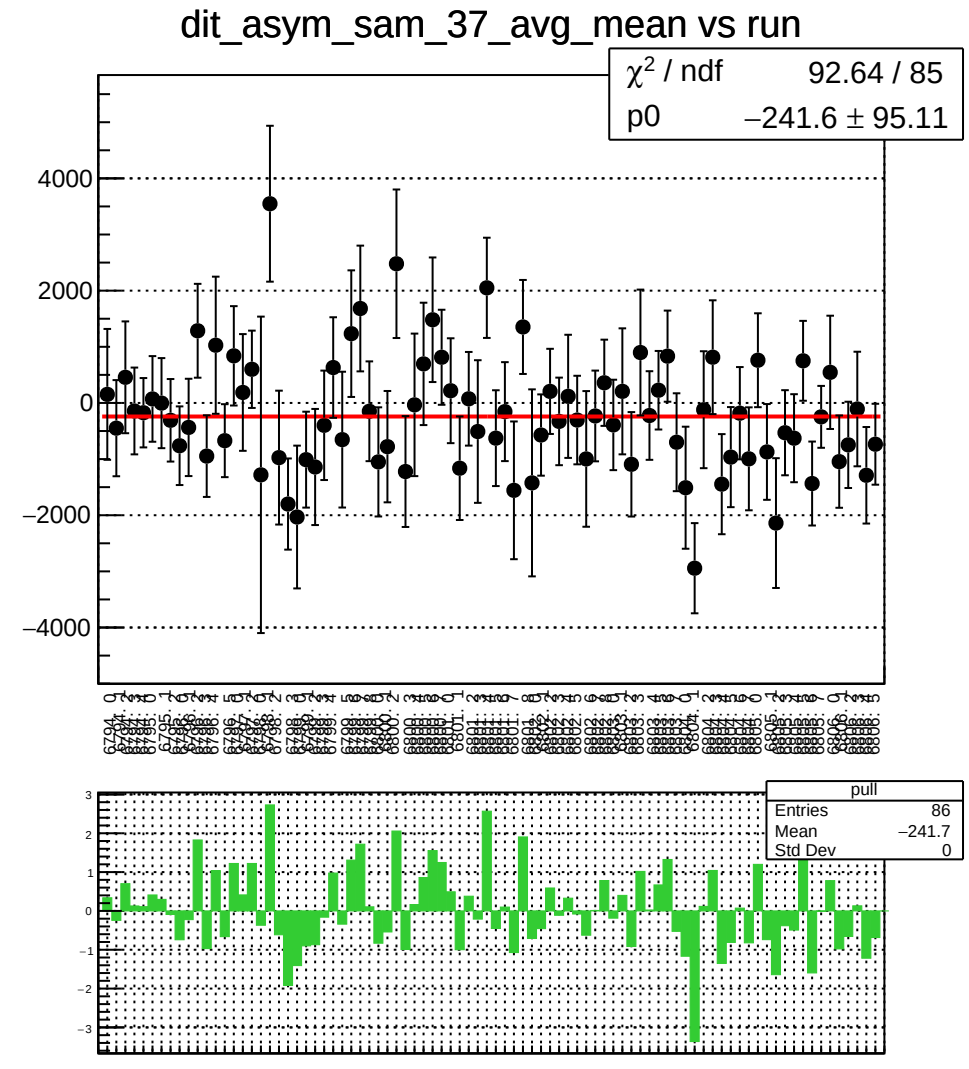

pull1D
Entries 86
Mean 0.002134
Std Dev 0.9758

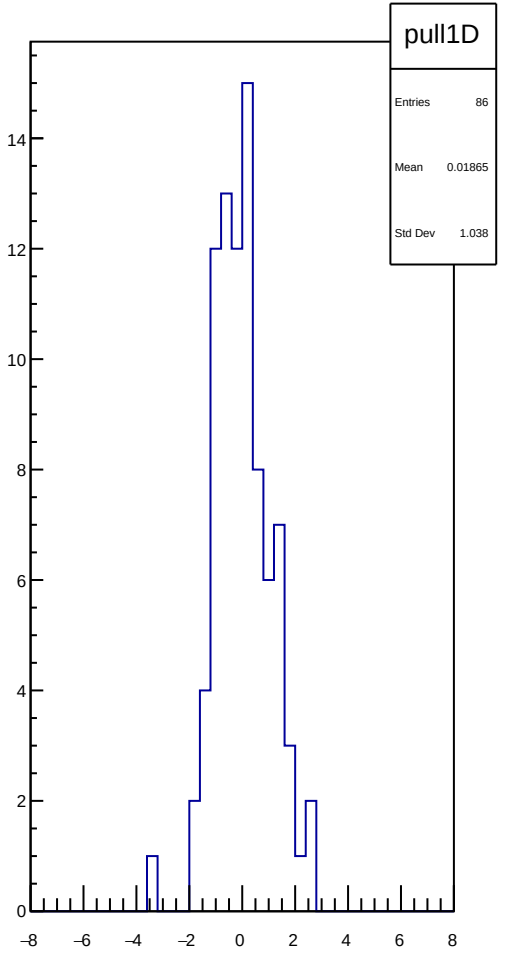

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.151e+04 / 85
p0 67.49 ± 0.05253
200
180
160
140
120
100
80
60

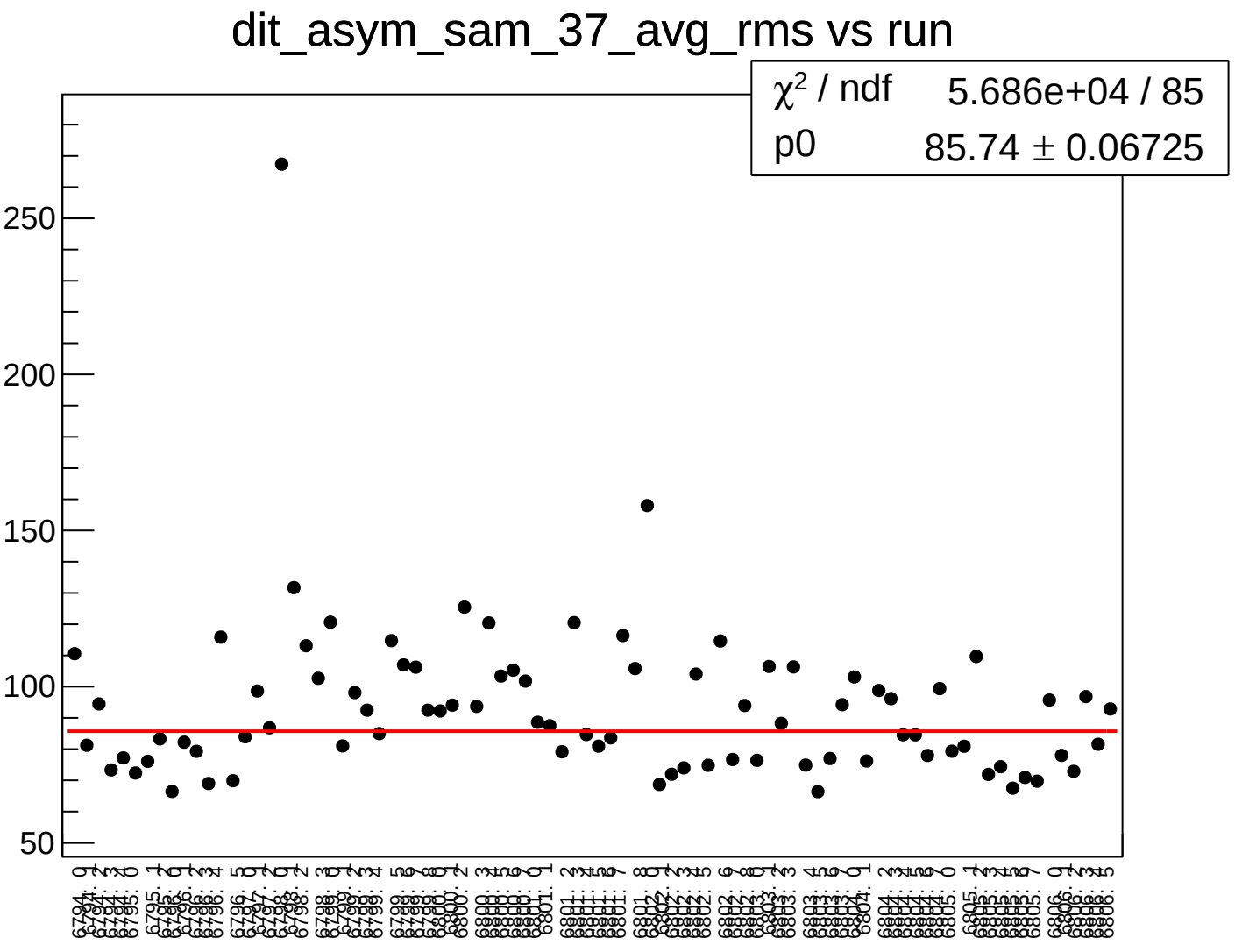

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.29 / 85
p0 −414 ± 804.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −50.36
Std Dev 0
2
1
0
−1
−2

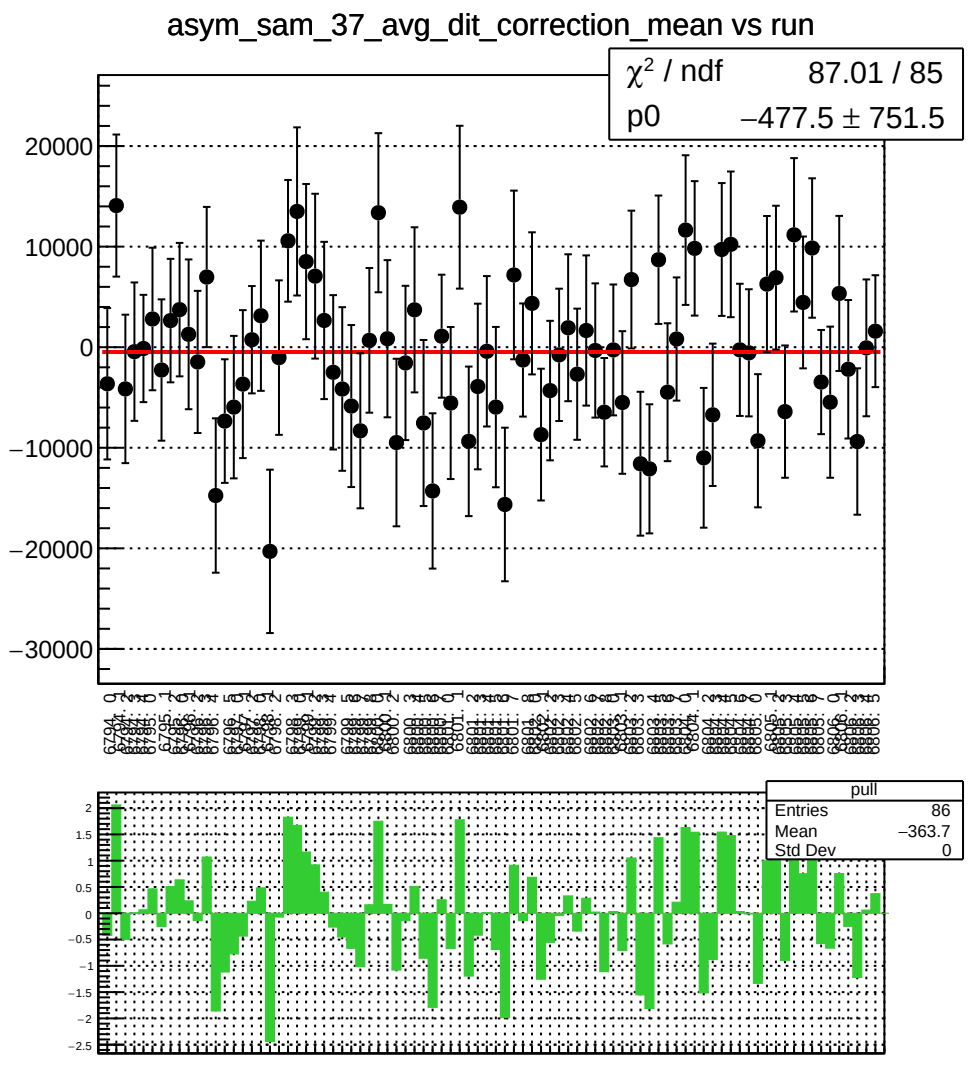

pull1D
Entries 86
Mean −0.005452
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

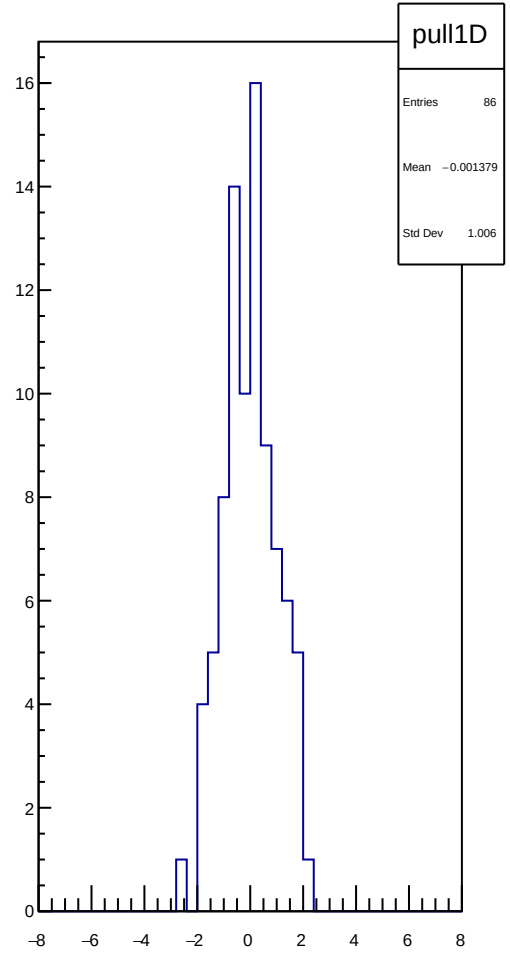

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.158e+04 / 85
p0 735.1 ± 0.5687
900
850
800
750
700
650
600

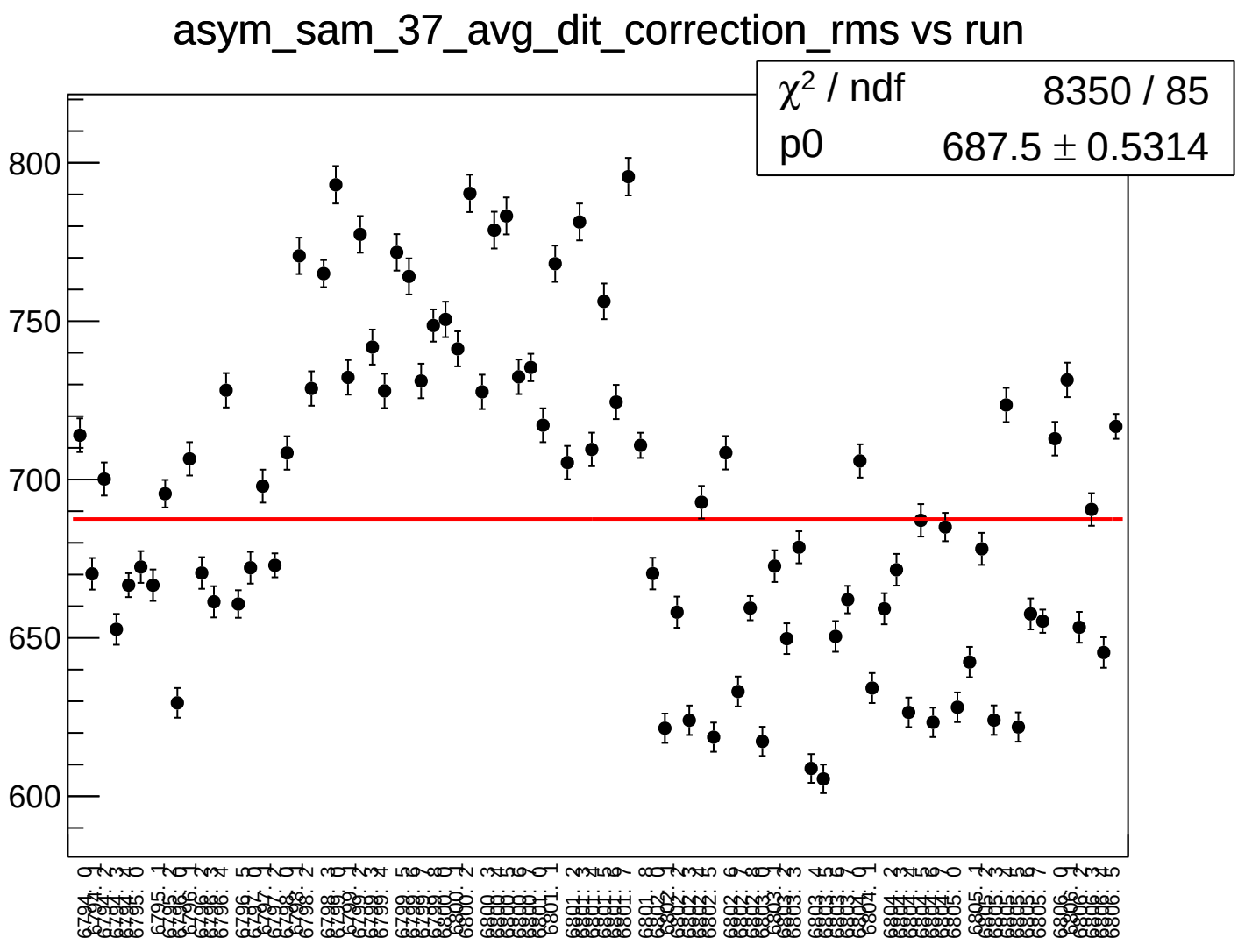

dit_asym_sam_37_avg_mean vs run
χ² / ndf 92.64 / 85
p0 −241.6 ± 95.11
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −241.7
Std Dev 0
3
2
1
0
−1
−2
−3

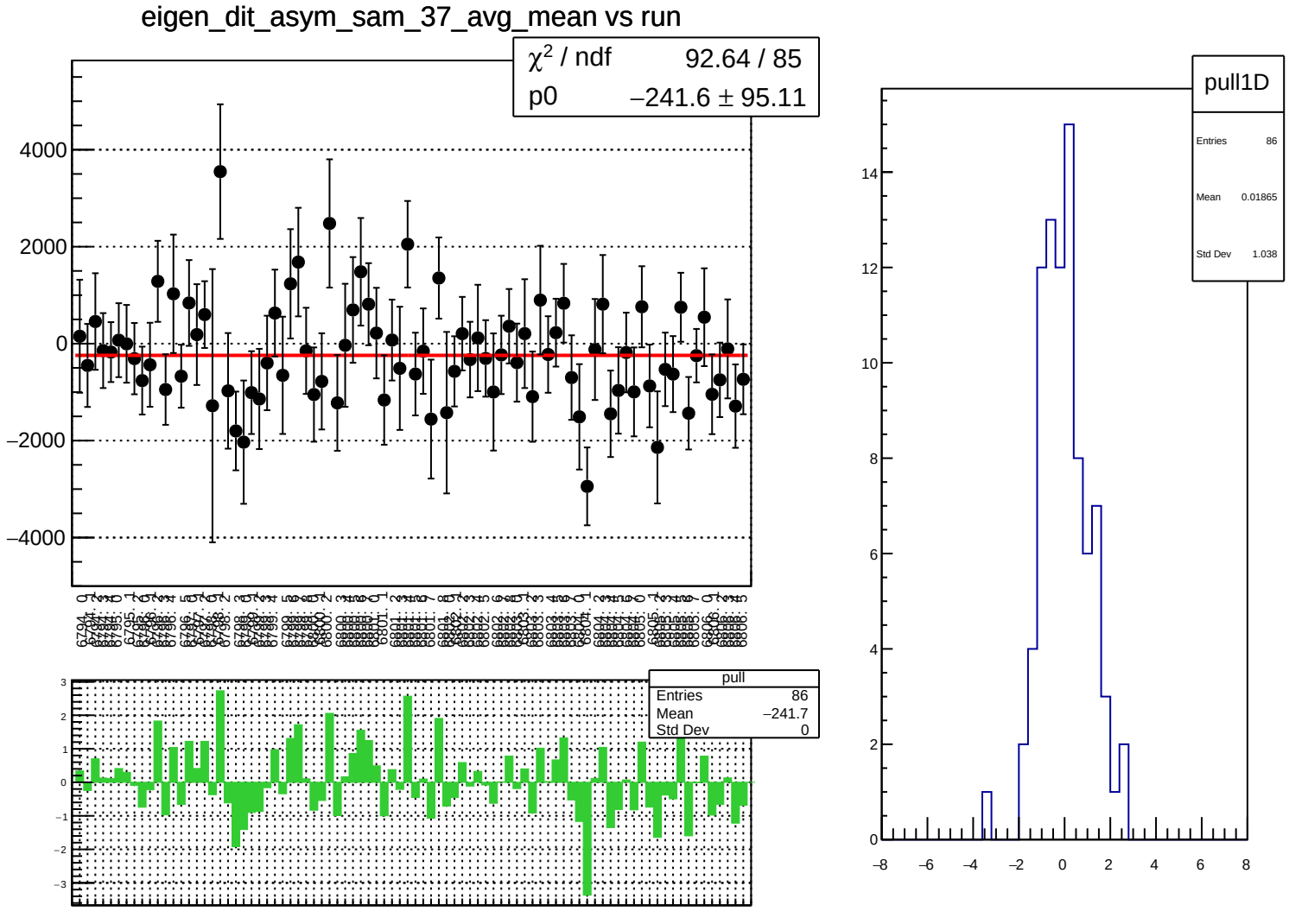

pull1D
Entries 86
Mean 0.01865
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

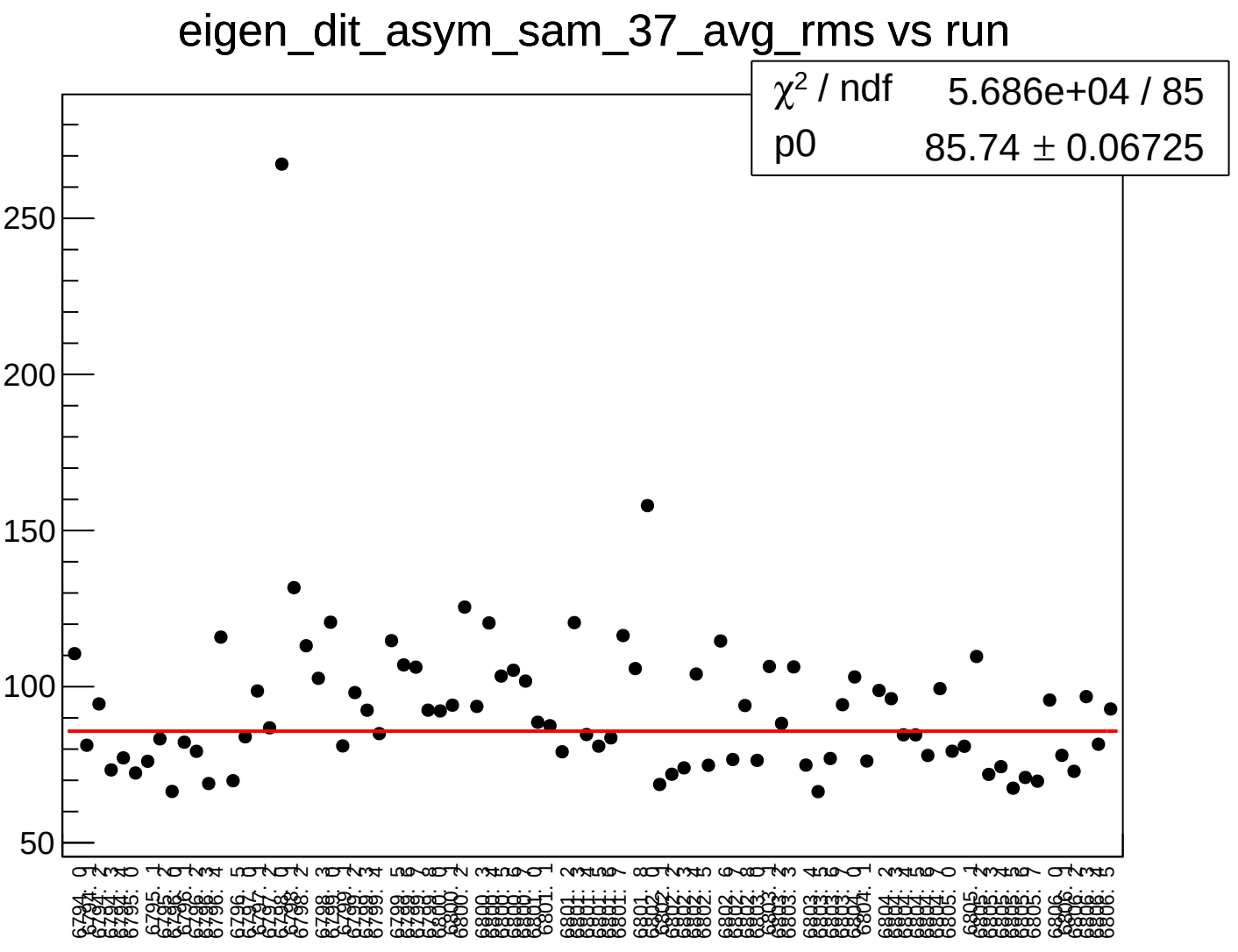

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 5.686e+04 / 85
p0 85.74 ± 0.06725
250
200
150
100
50

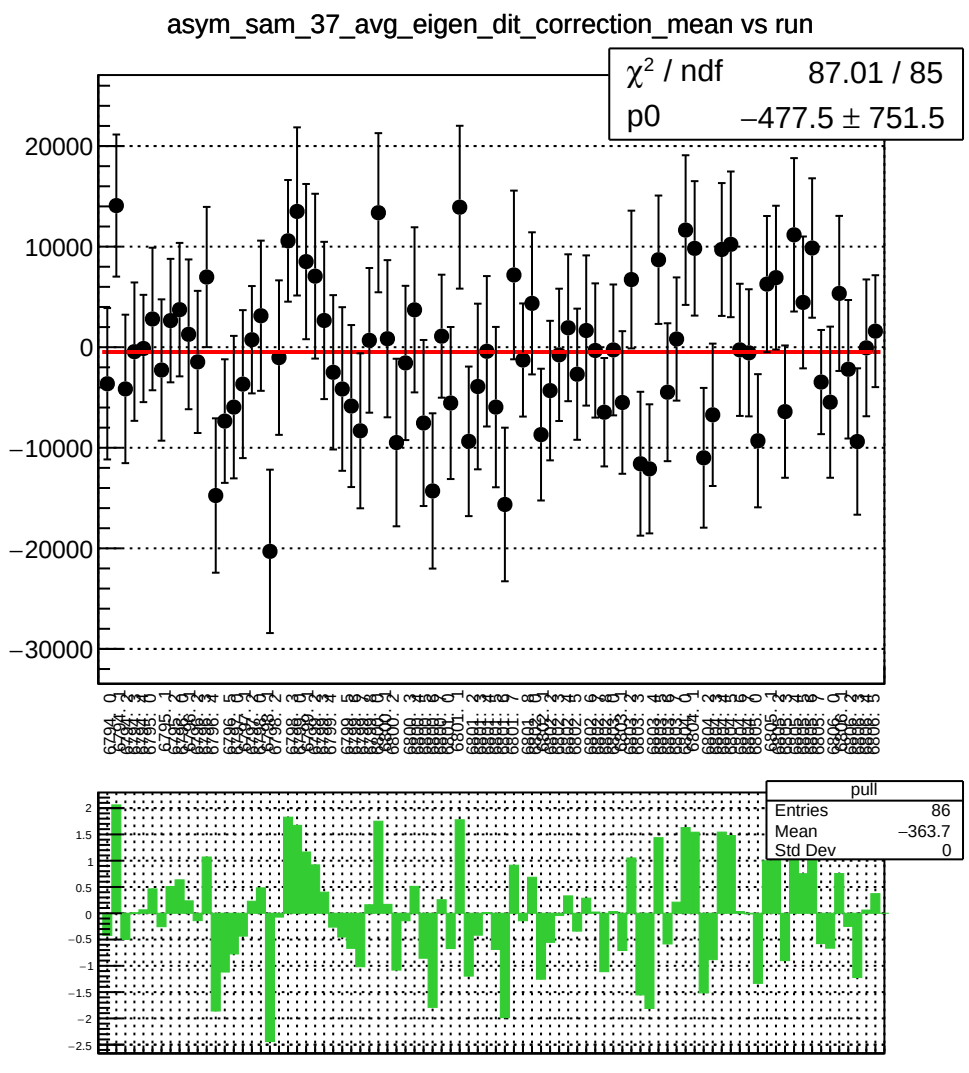

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 87.01 / 85
p0 −477.5 ± 751.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −363.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

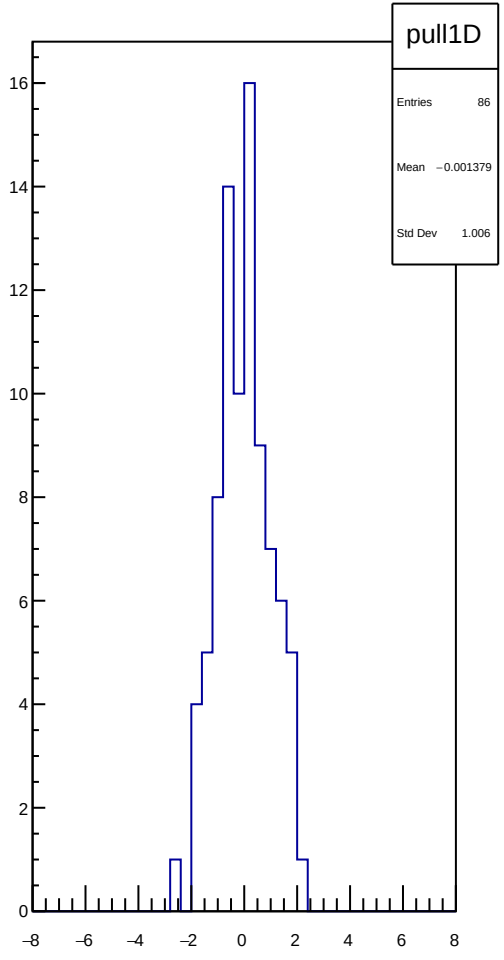

pull1D
Entries 86
Mean −0.001379
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

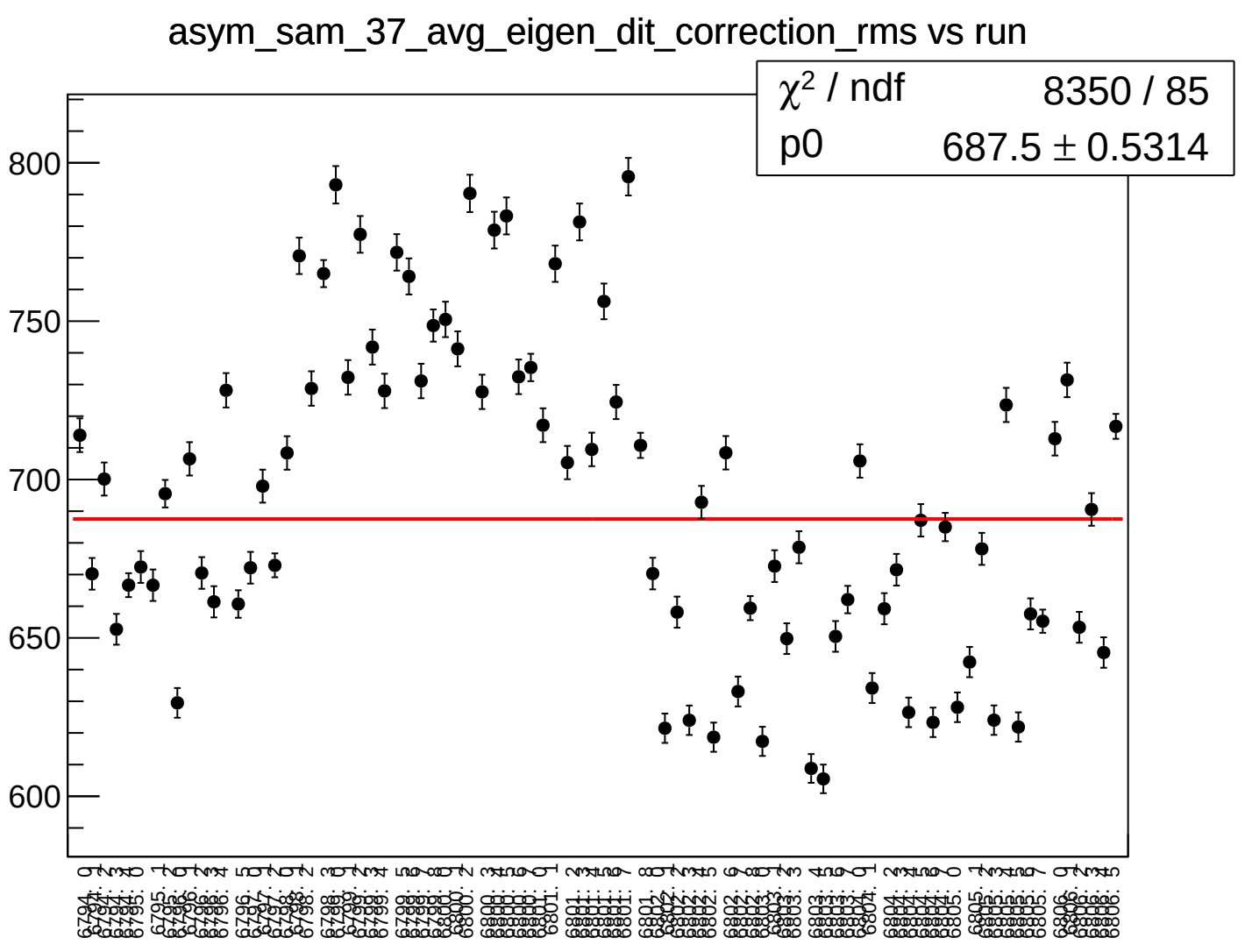

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 8350 / 85
p0 687.5 ± 0.5314
800
750
700
650
600

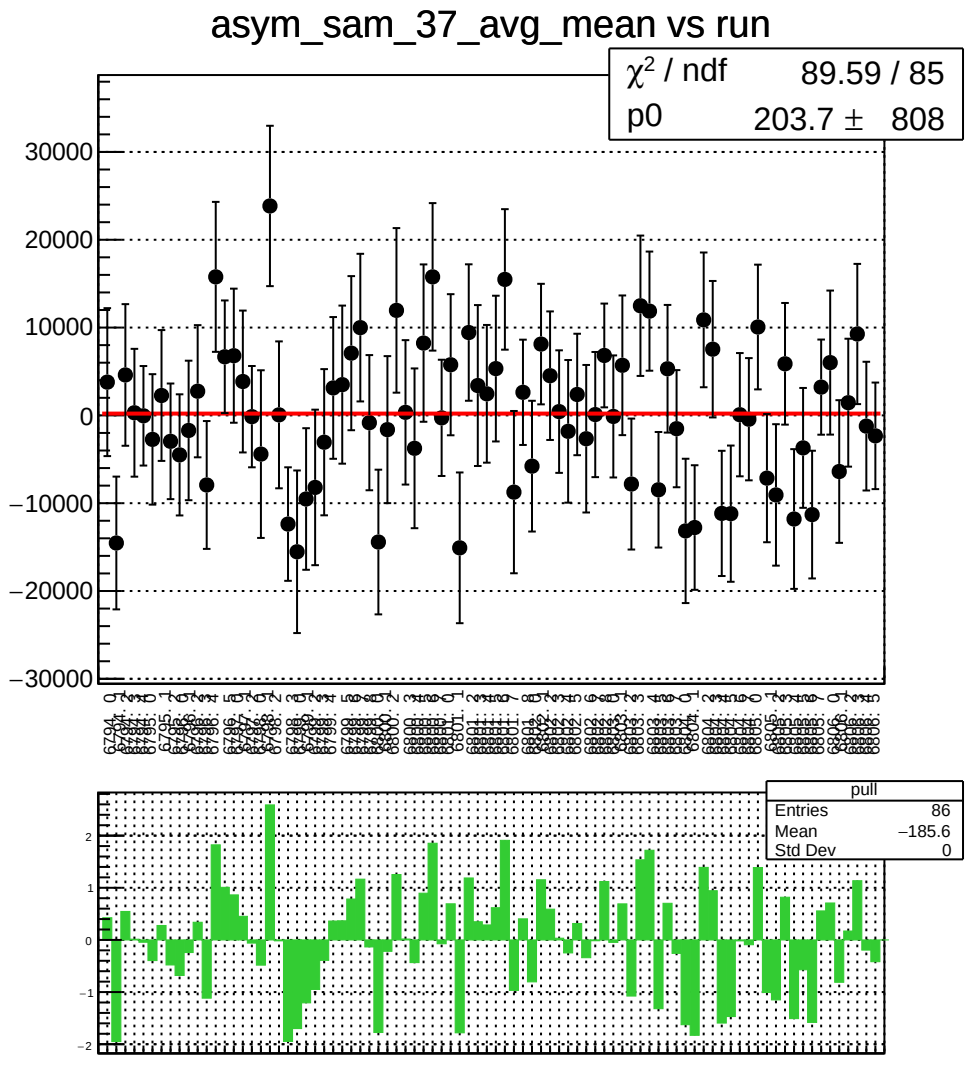

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 92.64 / 85
p0 −241.6 ± 95.11
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −241.7
Std Dev 0
pull1D
Entries 86
Mean 0.01865
Std Dev 1.038
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

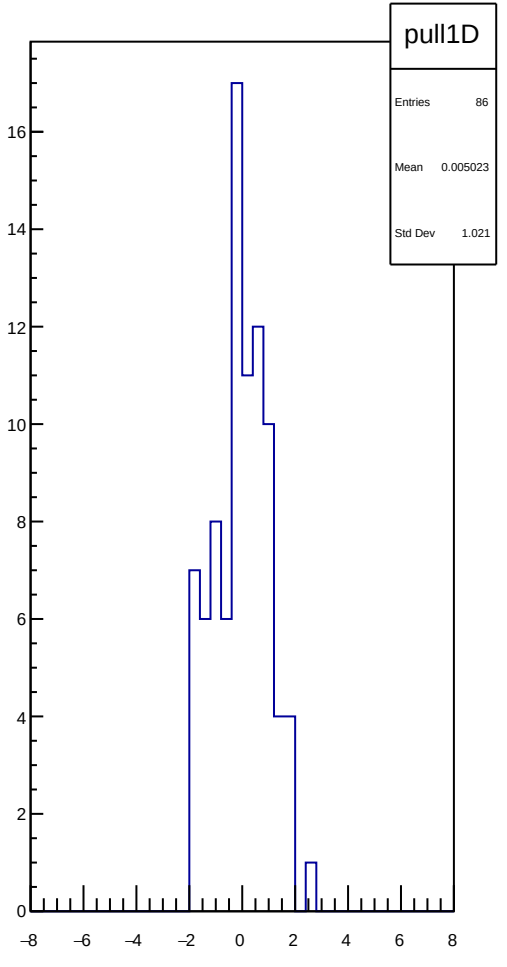

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 5.686e+04 / 85
p0 85.74 ± 0.06725
250
200
150
100
50

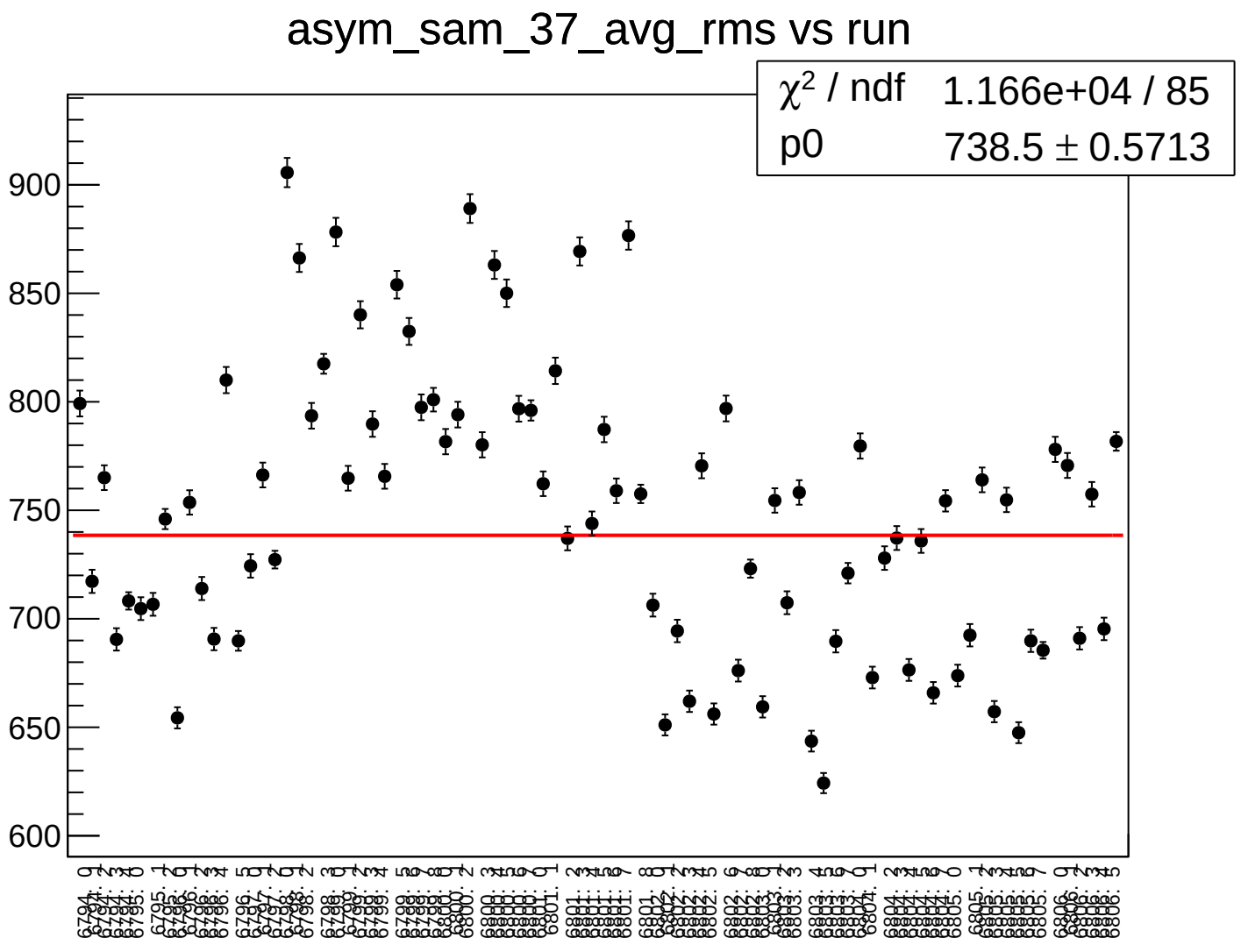

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.01 / 85
p0 −477.5 ± 751.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −363.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

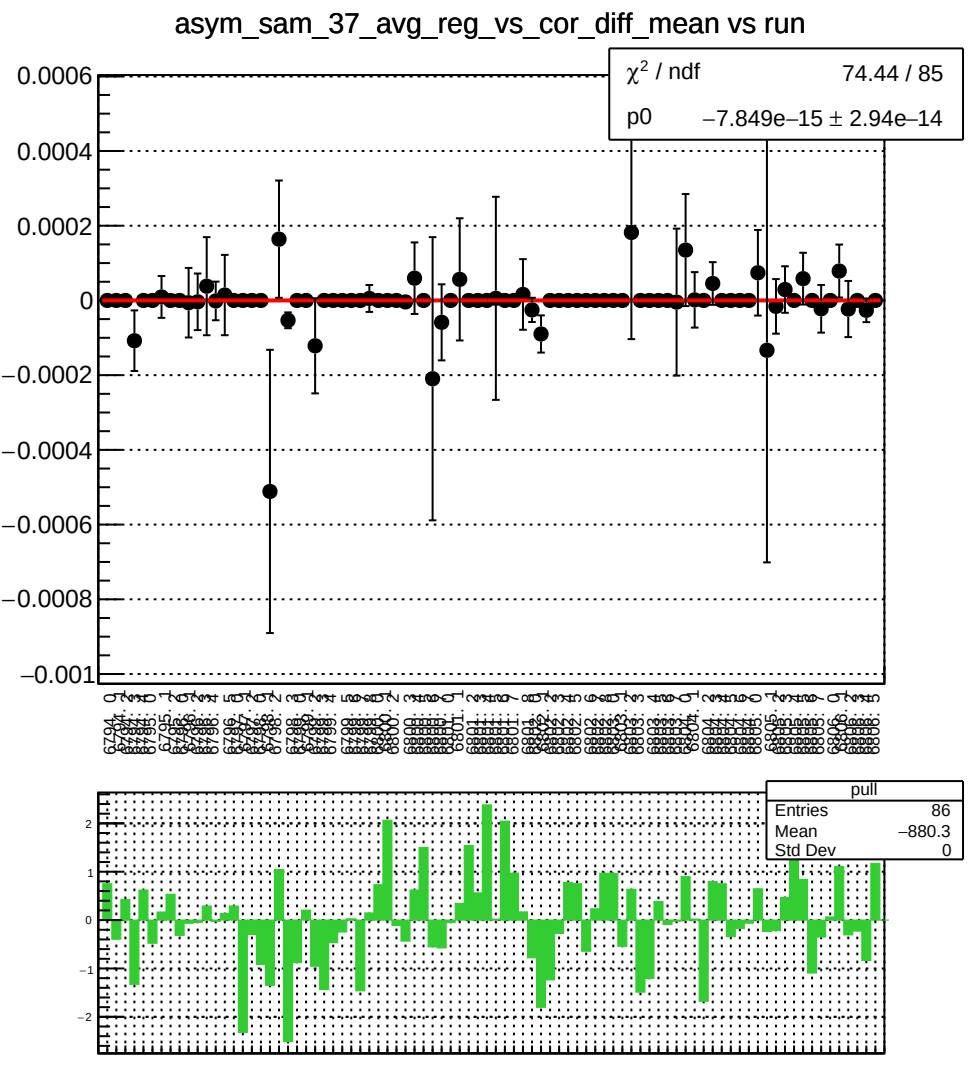

pull1D
Entries 86
Mean −0.001379
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

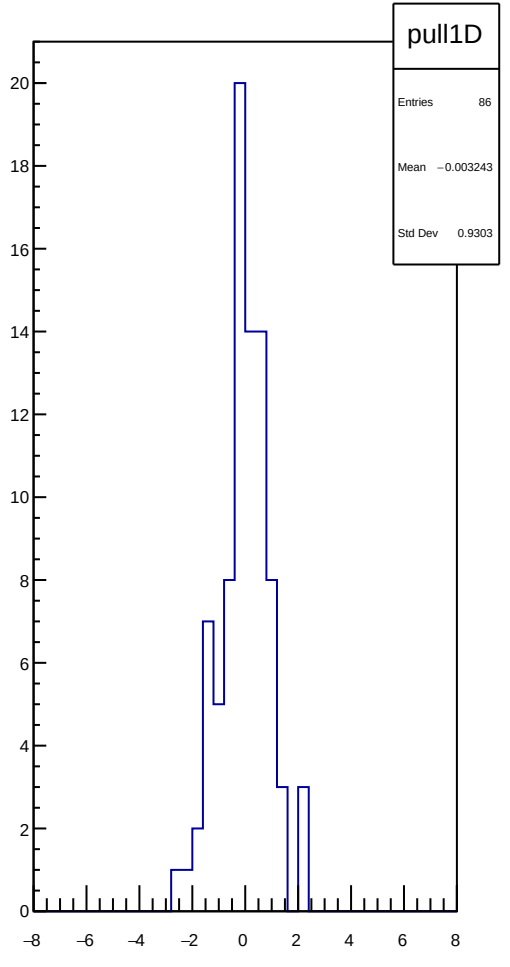

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 8350 / 85
p0 687.5 ± 0.5314
800
750
700
650
600

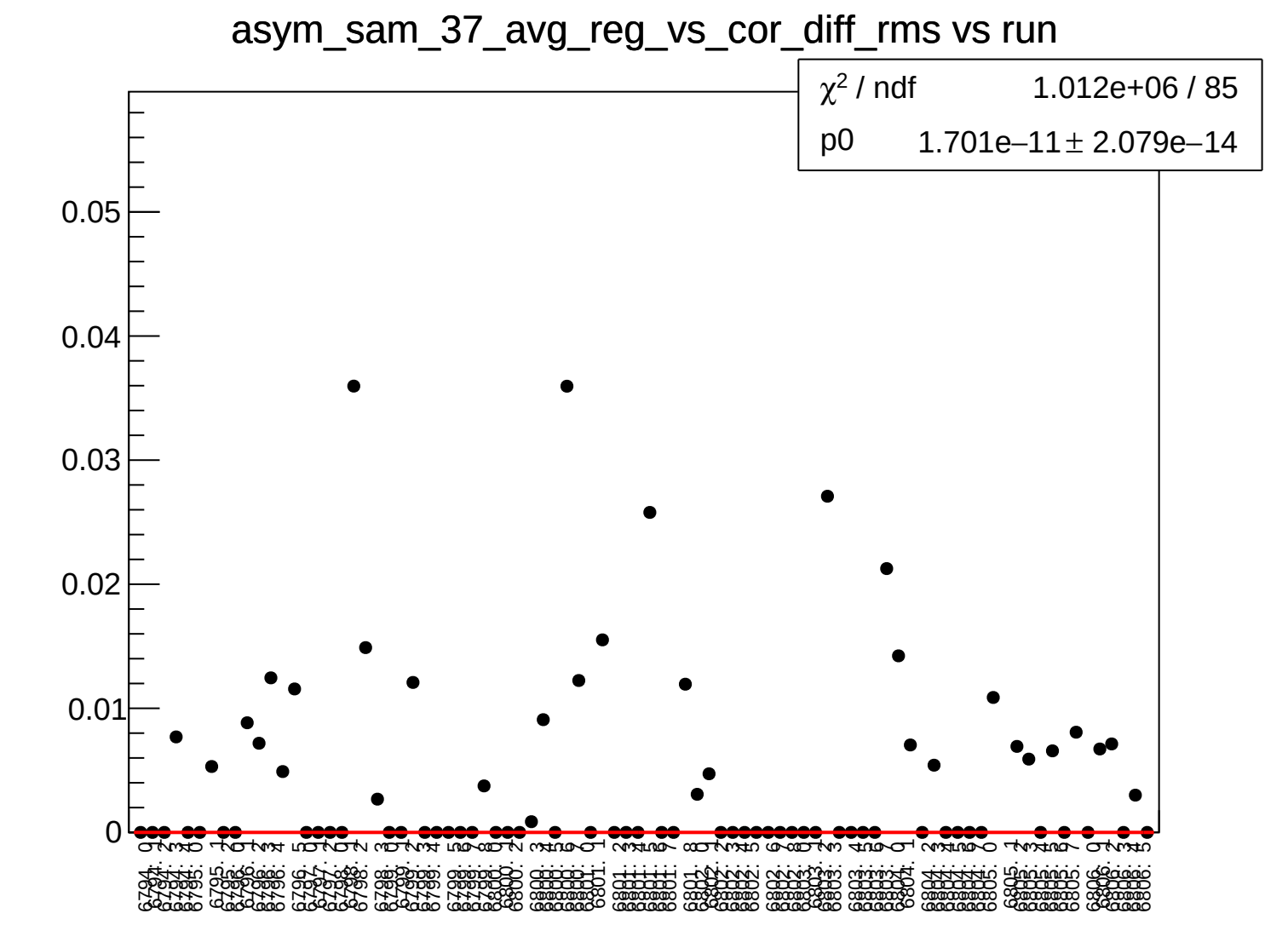

asym_sam_37_avg_mean vs run
χ² / ndf 89.59 / 85
p0 203.7 ± 808
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −185.6
Std Dev 0
2
1
0
−1
−2

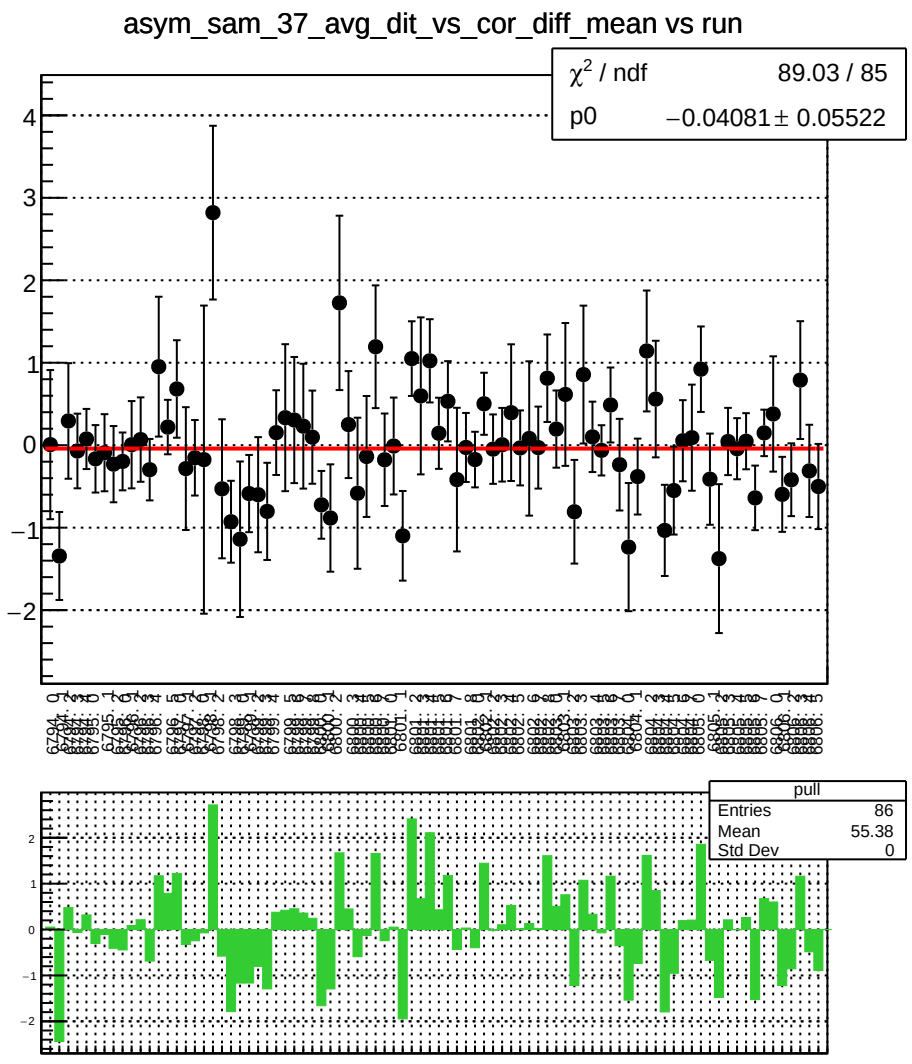

pull1D
Entries 86
Mean 0.005023
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

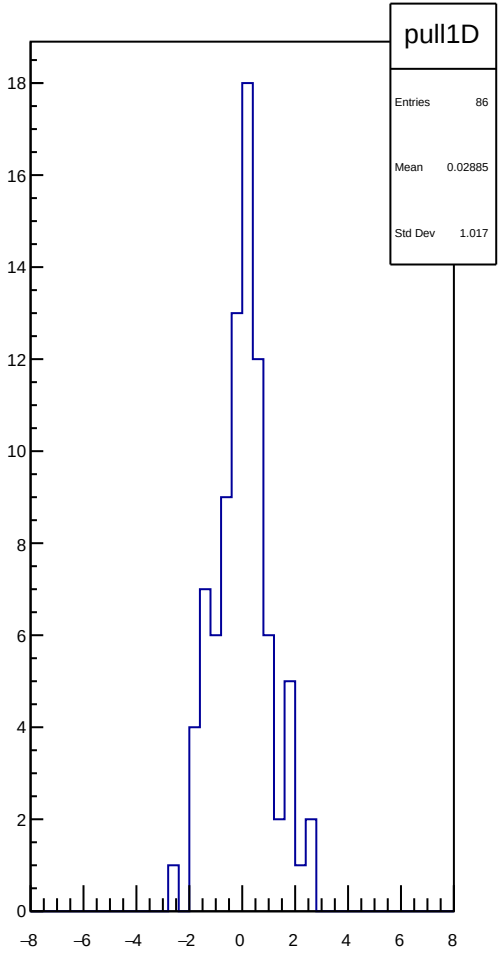

asym_sam_37_avg_rms vs run
χ² / ndf 1.166e+04 / 85
p0 738.5 ± 0.5713
900
850
800
750
700
650
600

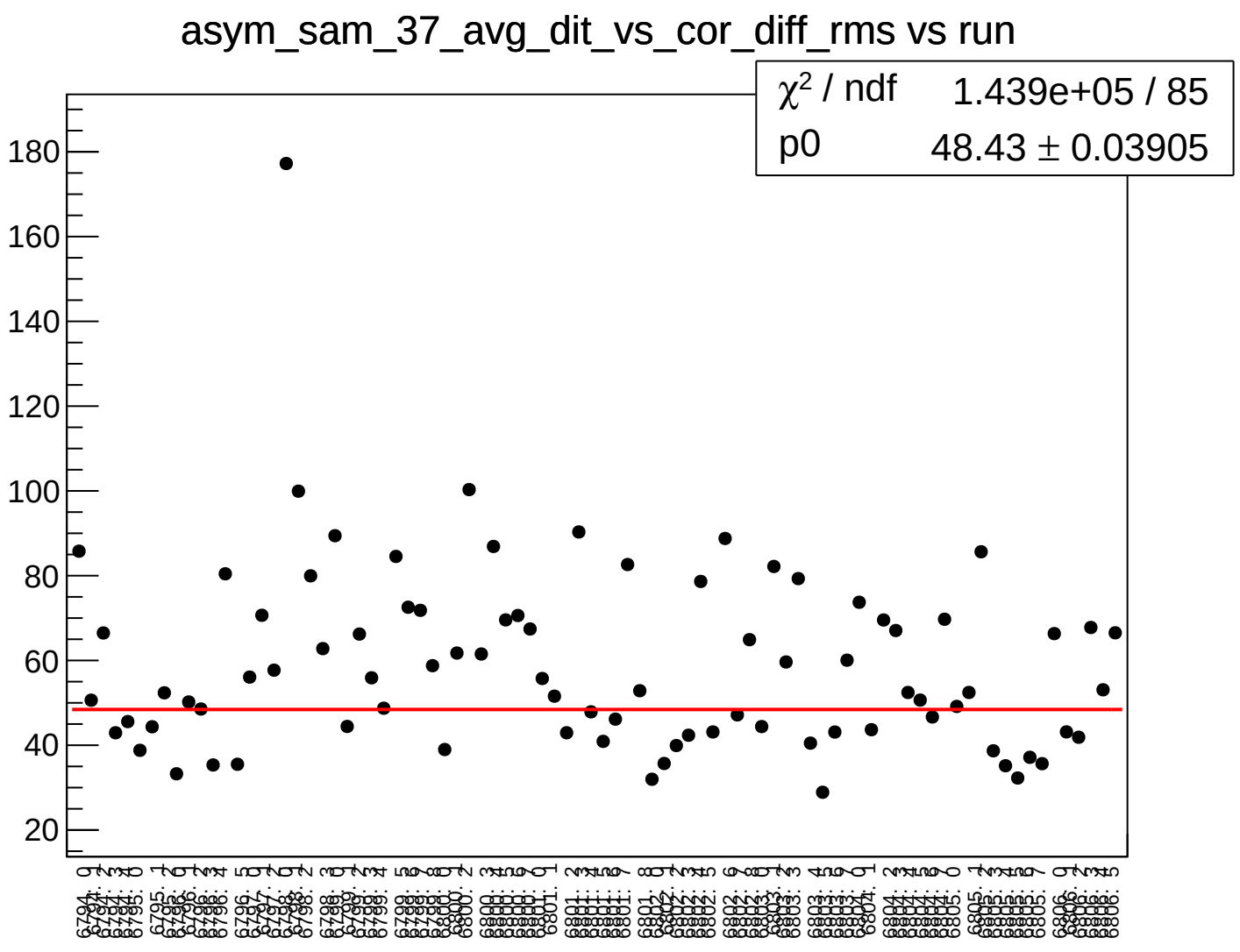

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 85
p0 −7.849e−15 ± 2.94e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean −880.3
Std Dev 0
2
1
0
−1
−2

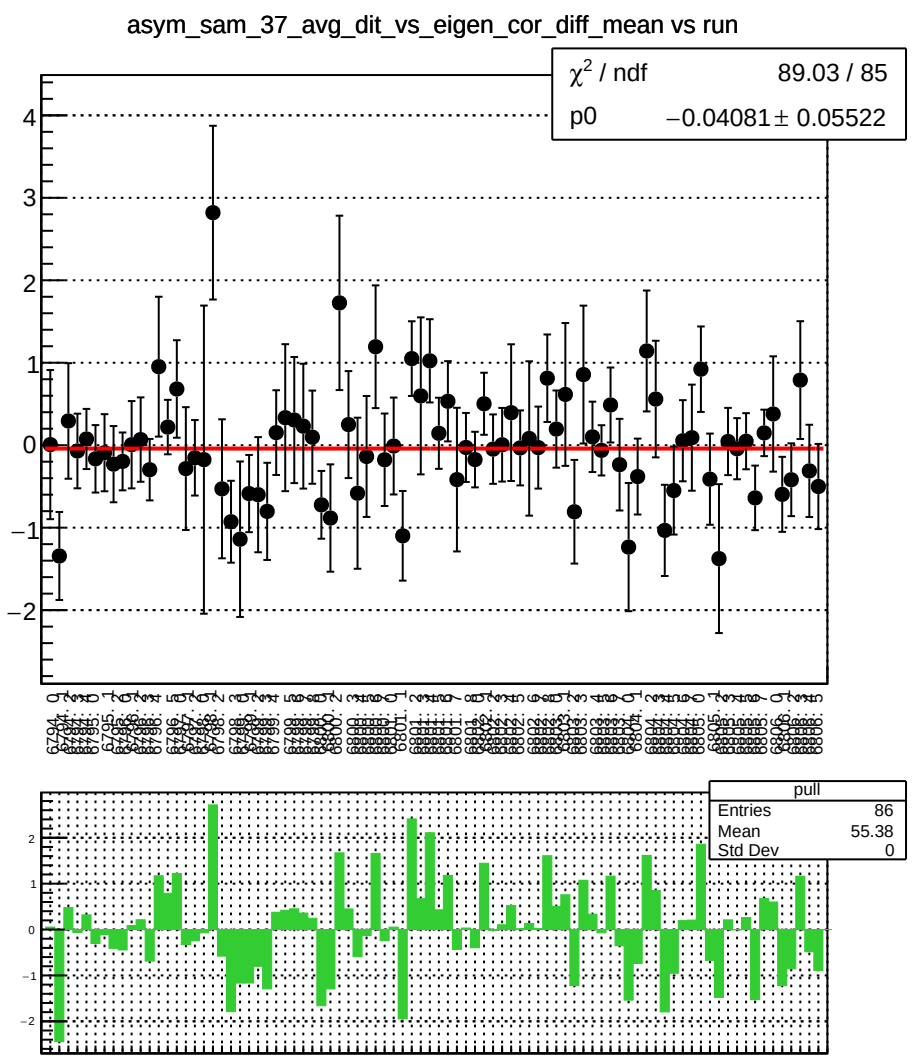

pull1D
Entries 86
Mean −0.003243
Std Dev 0.9303
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

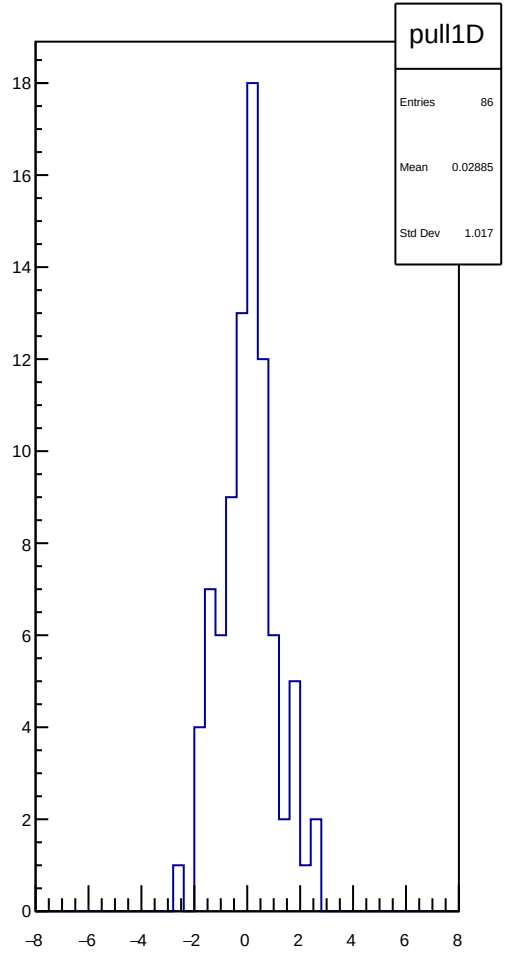

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.012e+06 / 85
p0 1.701e−11 ± 2.079e−14
0.05
0.04
0.03
0.02
0.01
0

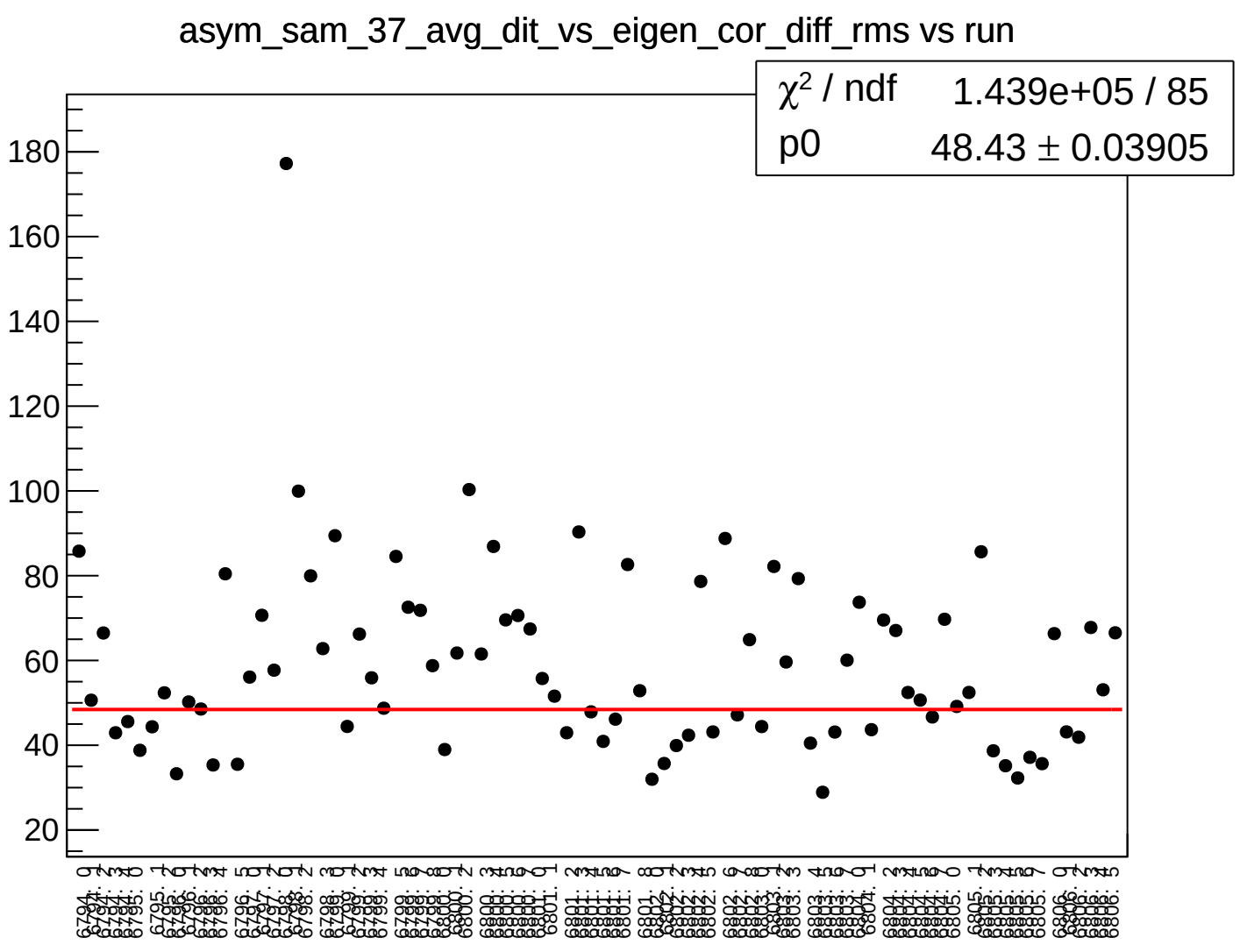

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 85
p0 −0.04081 ± 0.05522
pull
Entries 86
Mean 55.38
Std Dev 0

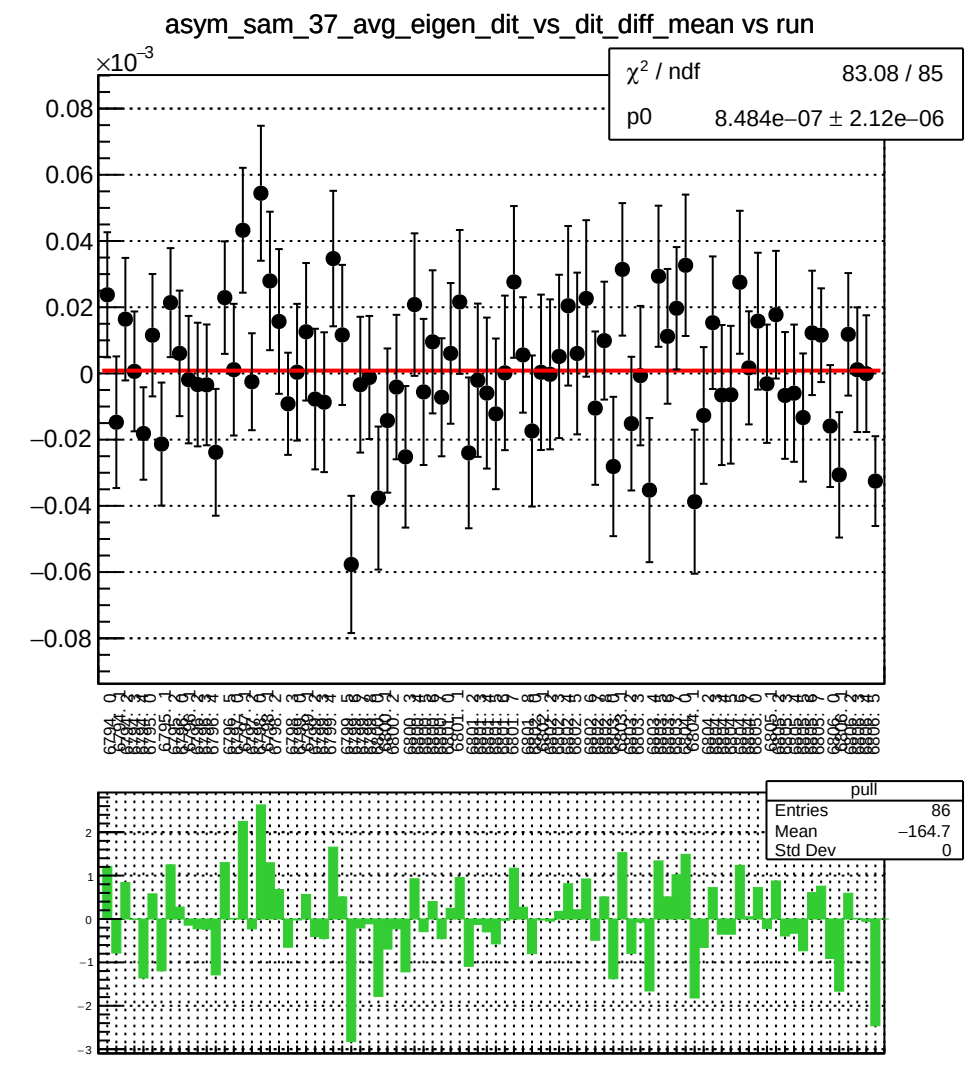

pull1D
Entries 86
Mean 0.02885
Std Dev 1.017

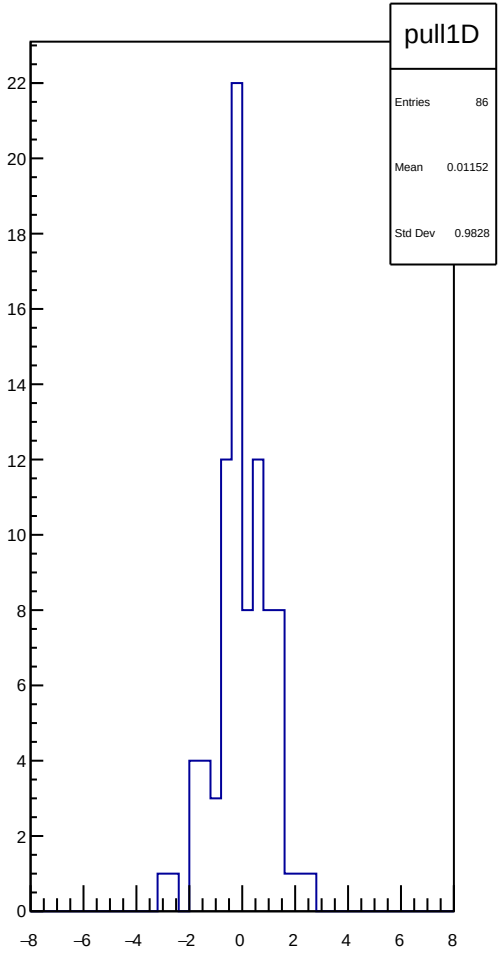

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+05 / 85
p0 48.43 ± 0.03905
180
160
140
120
100
80
60
40
20

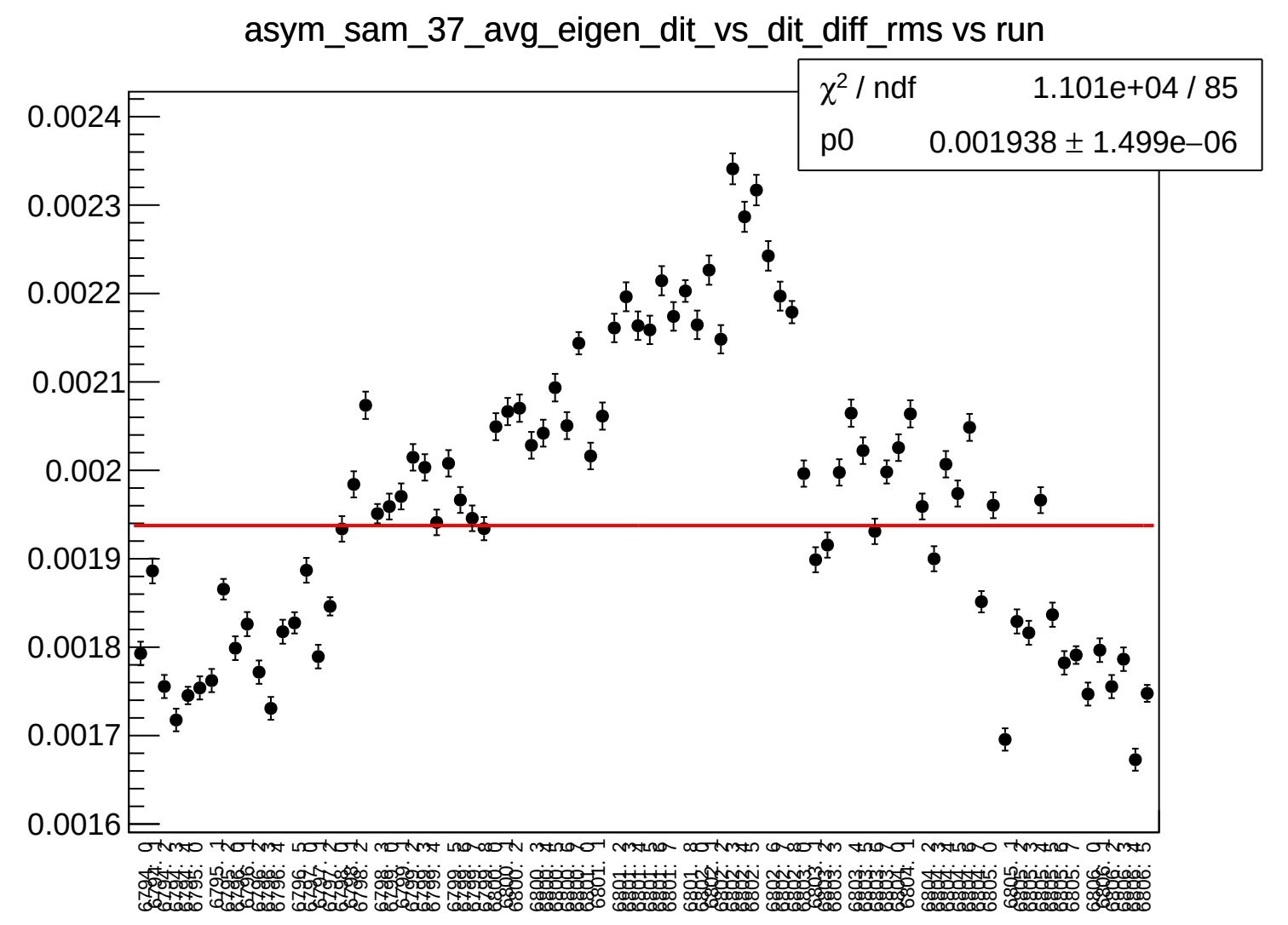

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 85
p0 −0.04081 ± 0.05522
pull
Entries 86
Mean 55.38
Std Dev 0

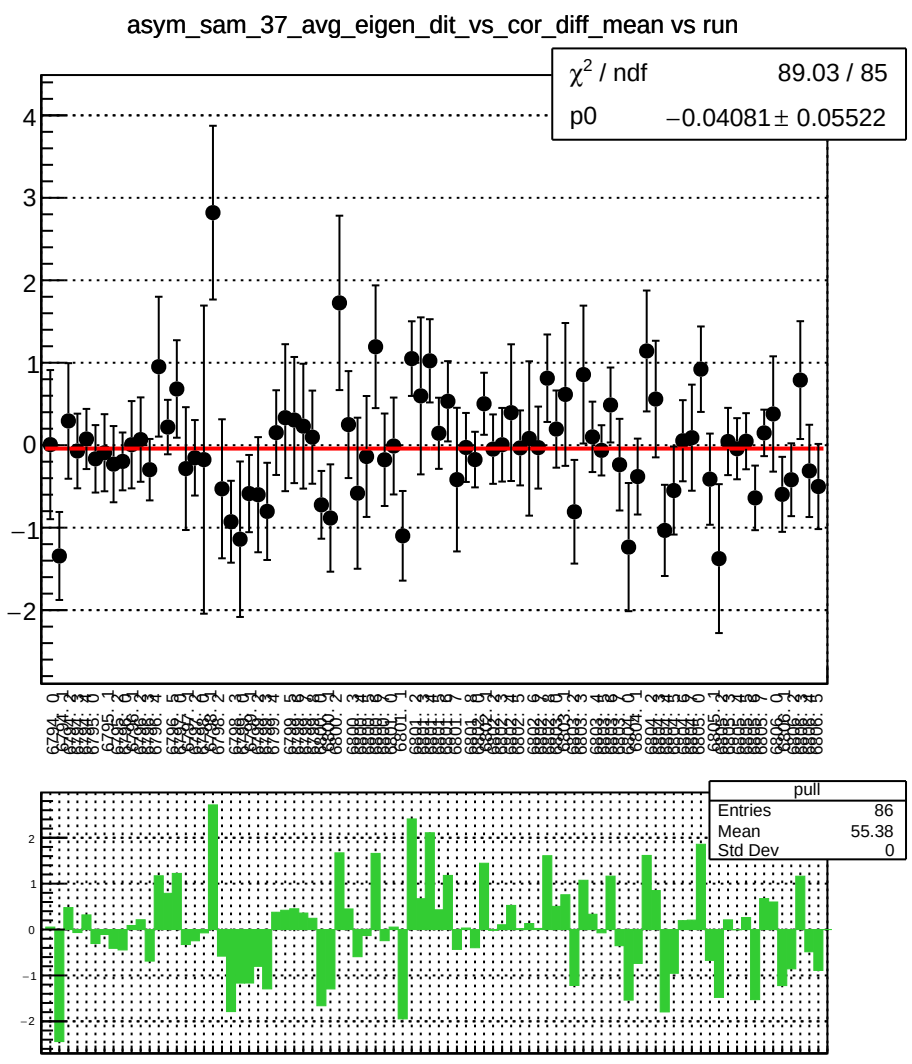

pull1D
Entries 86
Mean 0.02885
Std Dev 1.017

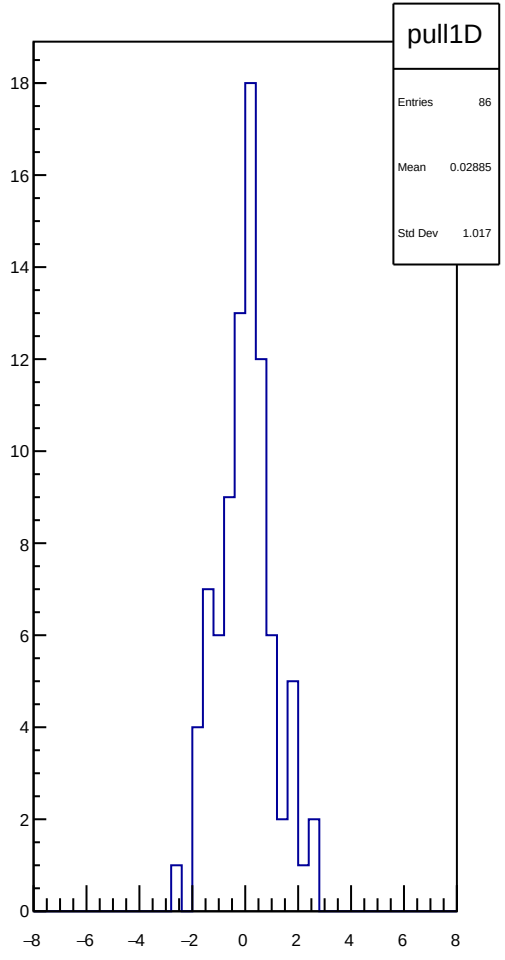

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+05 / 85
p0 48.43 ± 0.03905
180
160
140
120
100
80
60
40
20

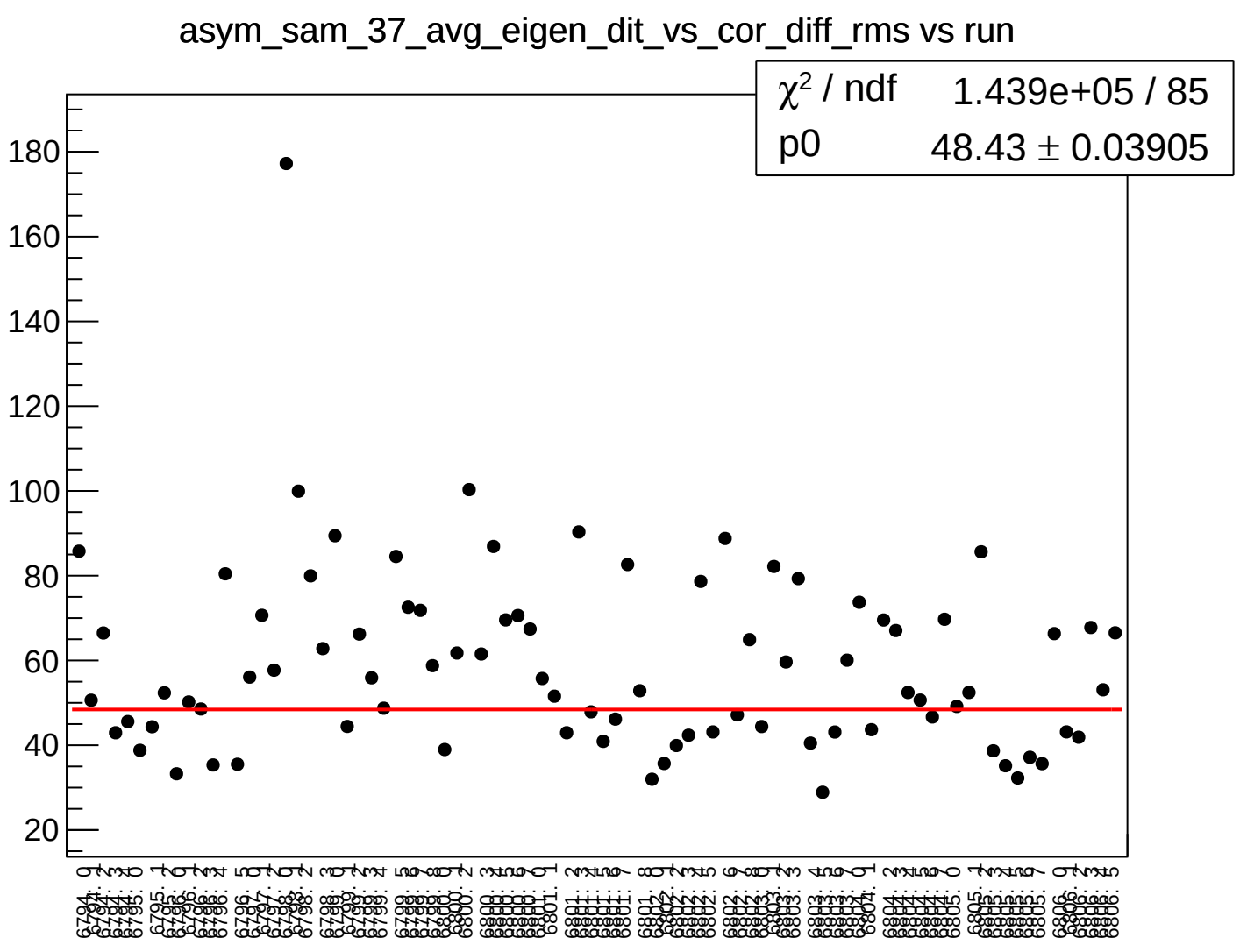

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.08 / 85
p0 8.484e−07 ± 2.12e−06
pull
Entries 86
Mean −164.7
Std Dev 0

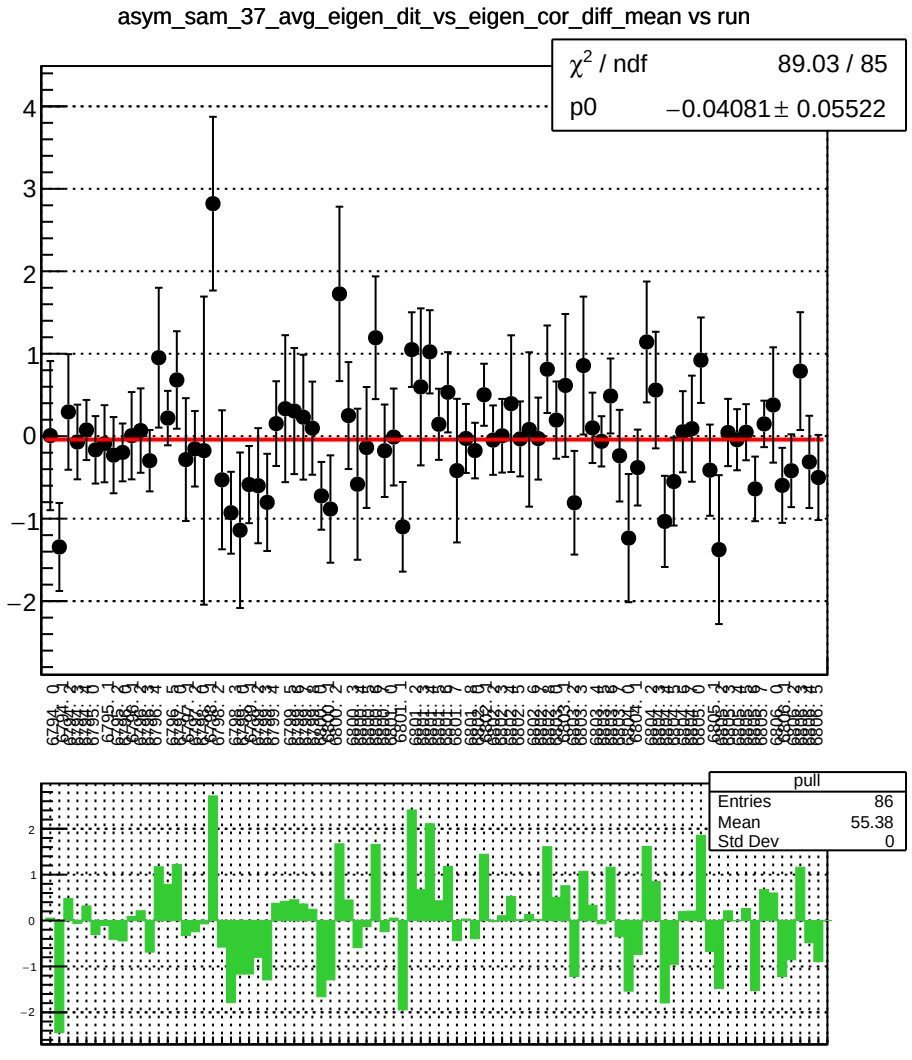

pull1D
Entries 86
Mean 0.01152
Std Dev 0.9828

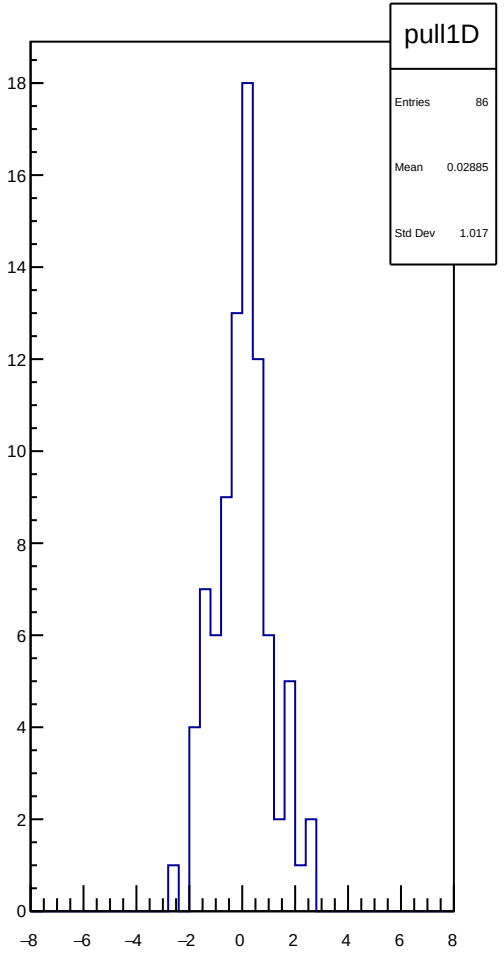

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.101e+04 / 85
p0 0.001938 ± 1.499e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016

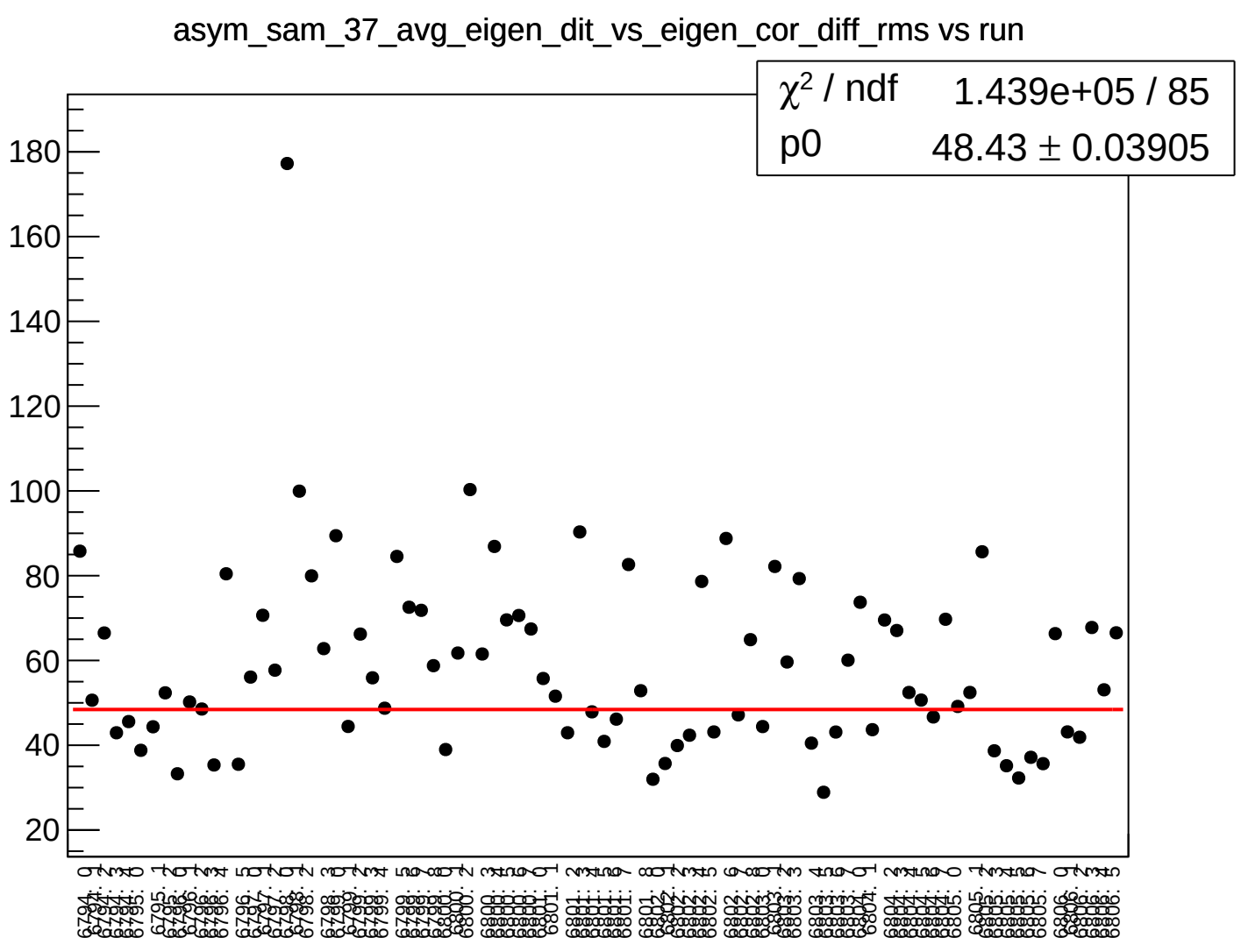

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.03 / 85
p0 −0.04081 ± 0.05522
pull
Entries 86
Mean 55.38
Std Dev 0

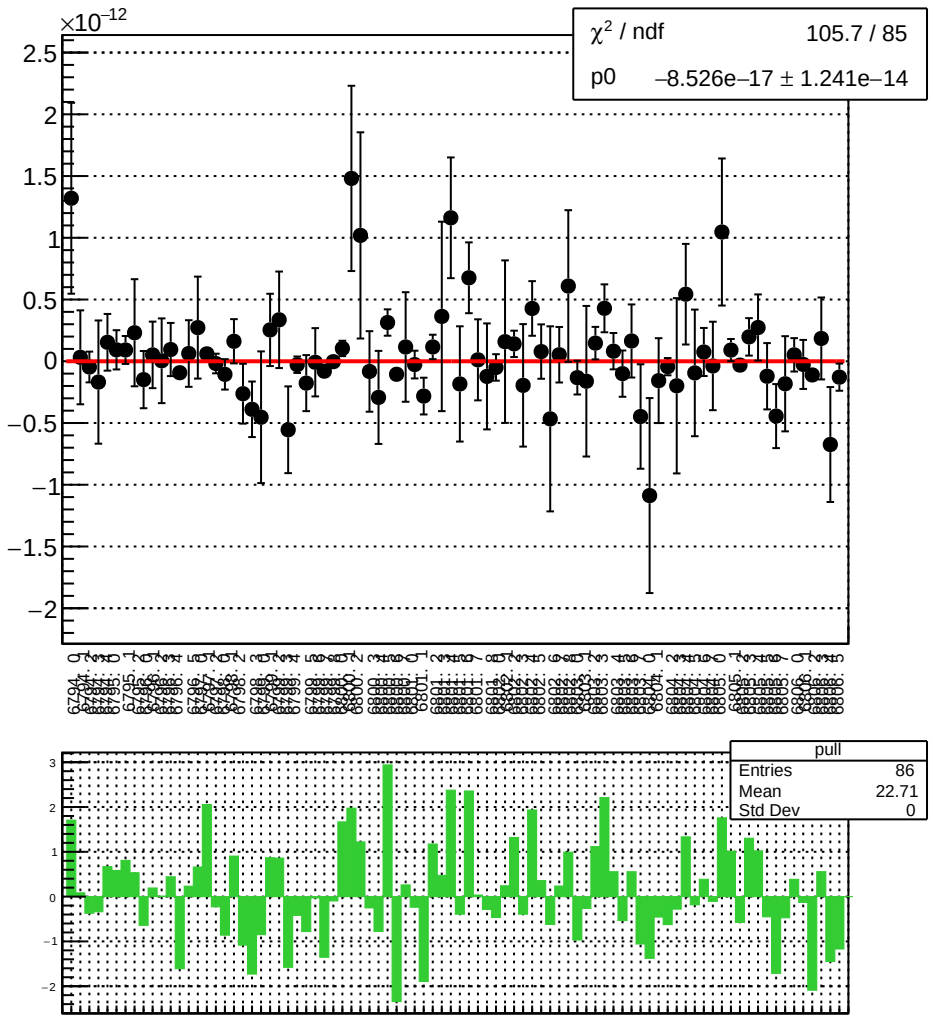

pull1D
Entries 86
Mean 0.02885
Std Dev 1.017

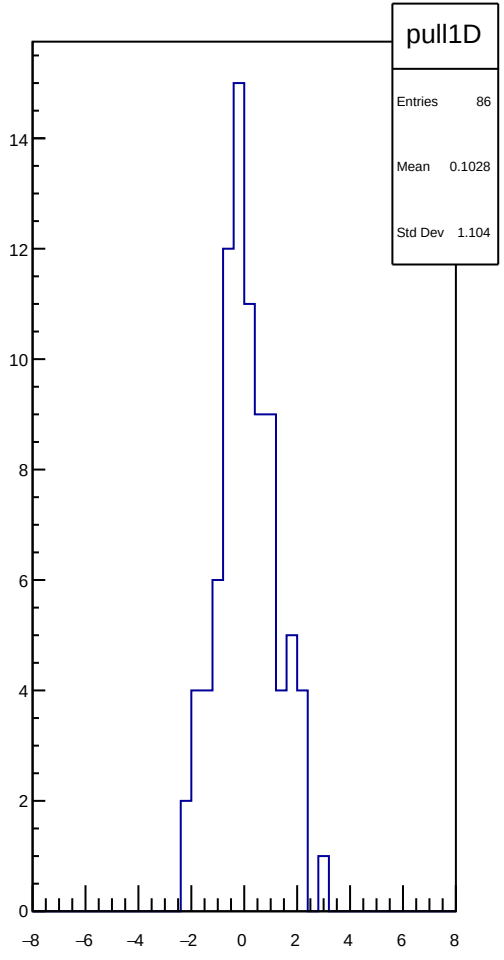

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.439e+05 / 85
p0 48.43 ± 0.03905
180
160
140
120
100
80
60
40
20

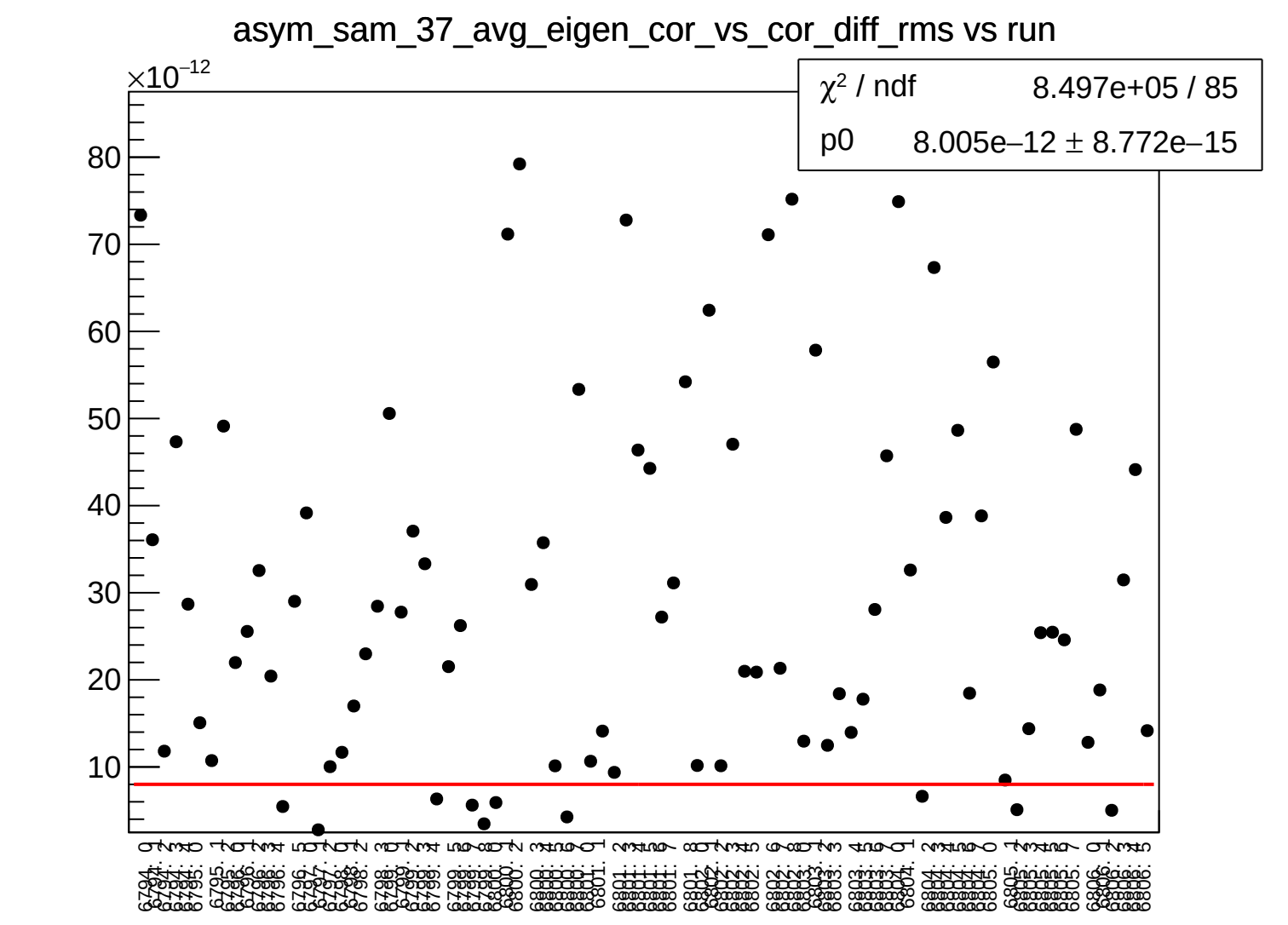

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.03 / 85
p0 −0.04081 ± 0.05522
pull
Entries 86
Mean 55.38
Std Dev 0

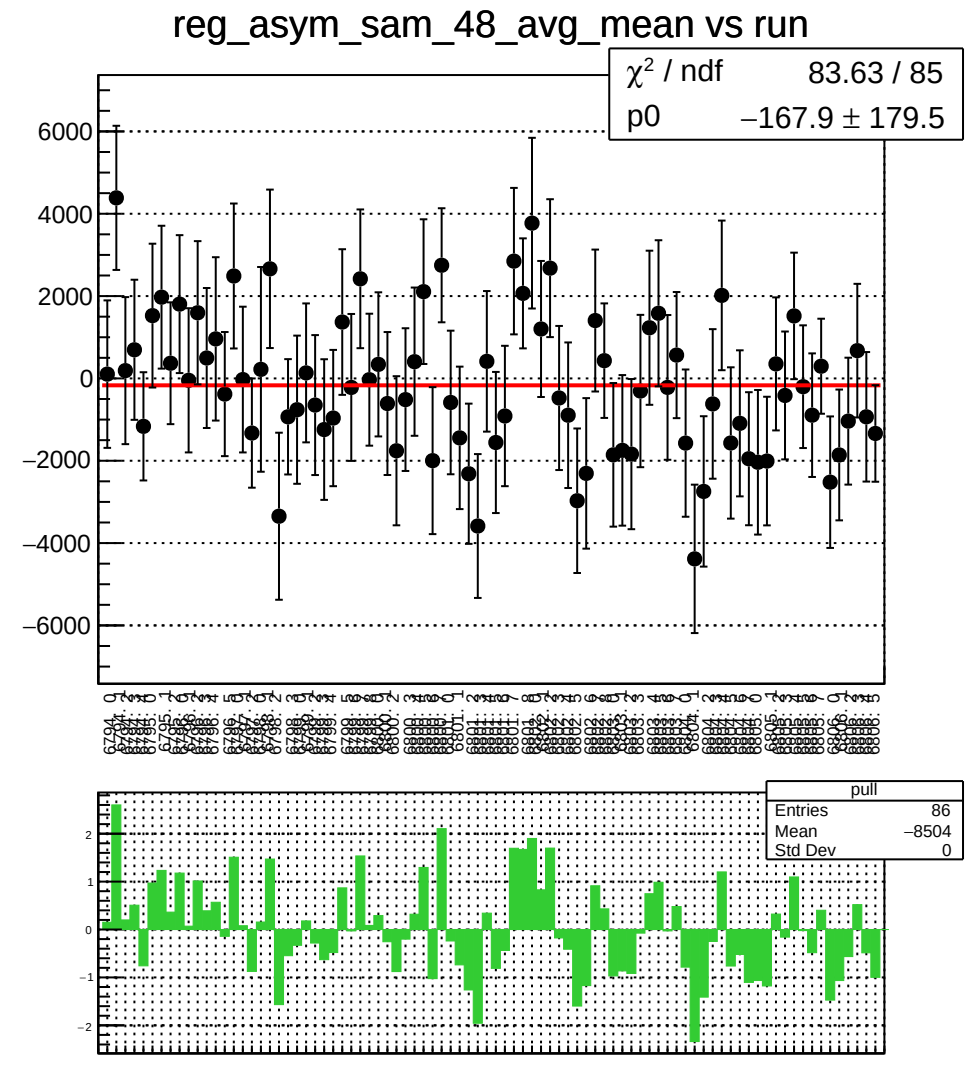

pull1D
Entries 86
Mean 0.02885
Std Dev 1.017

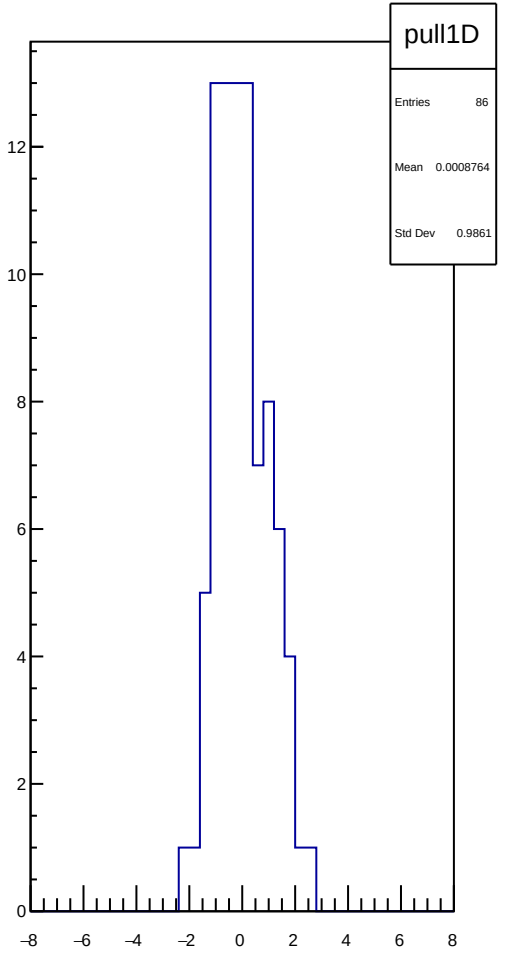

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.439e+05 / 85
p0 48.43 ± 0.03905
180
160
140
120
100
80
60
40
20

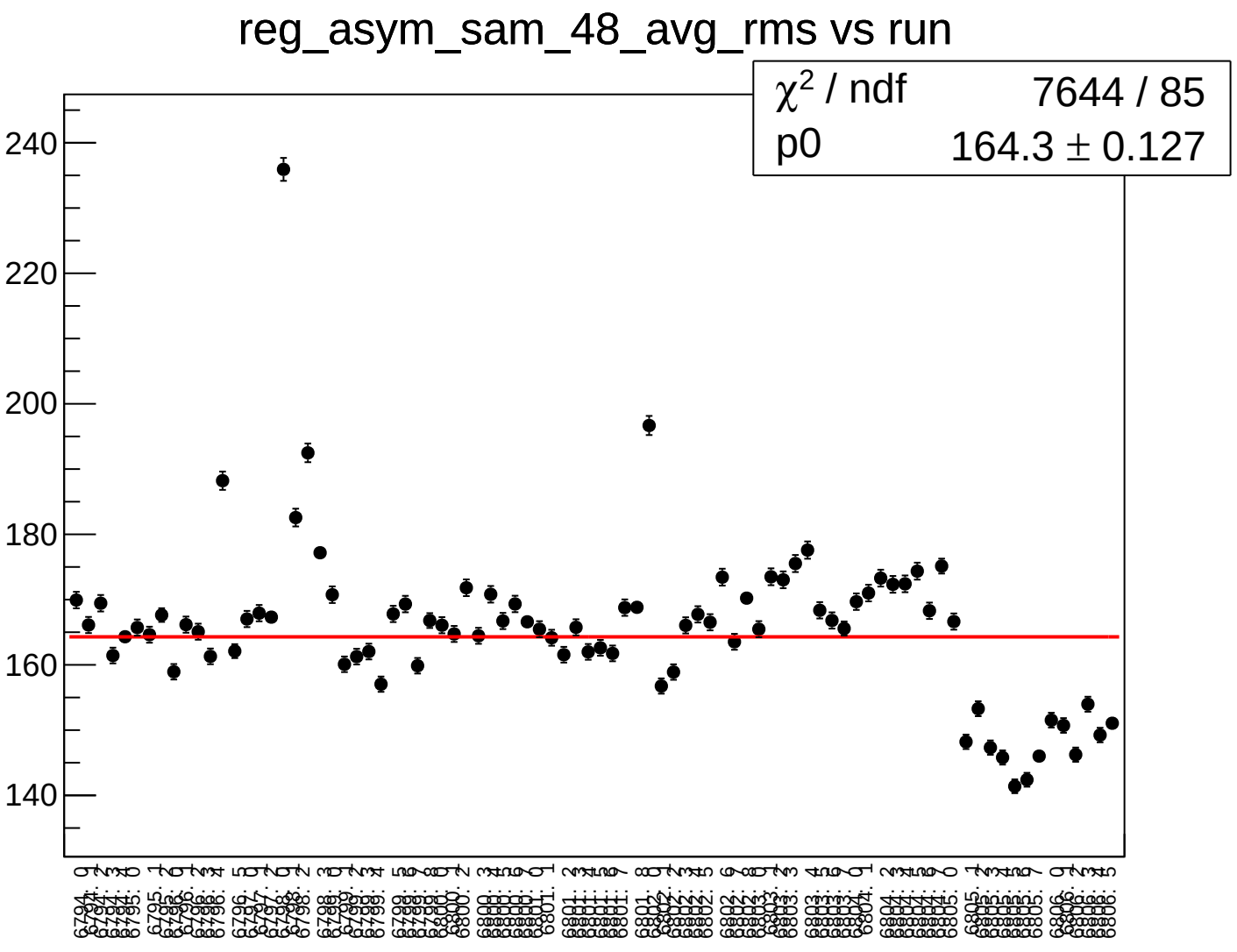

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 85
p0 −8.526e−17 ± 1.241e−14
pull
Entries 86
Mean 22.71
Std Dev 0

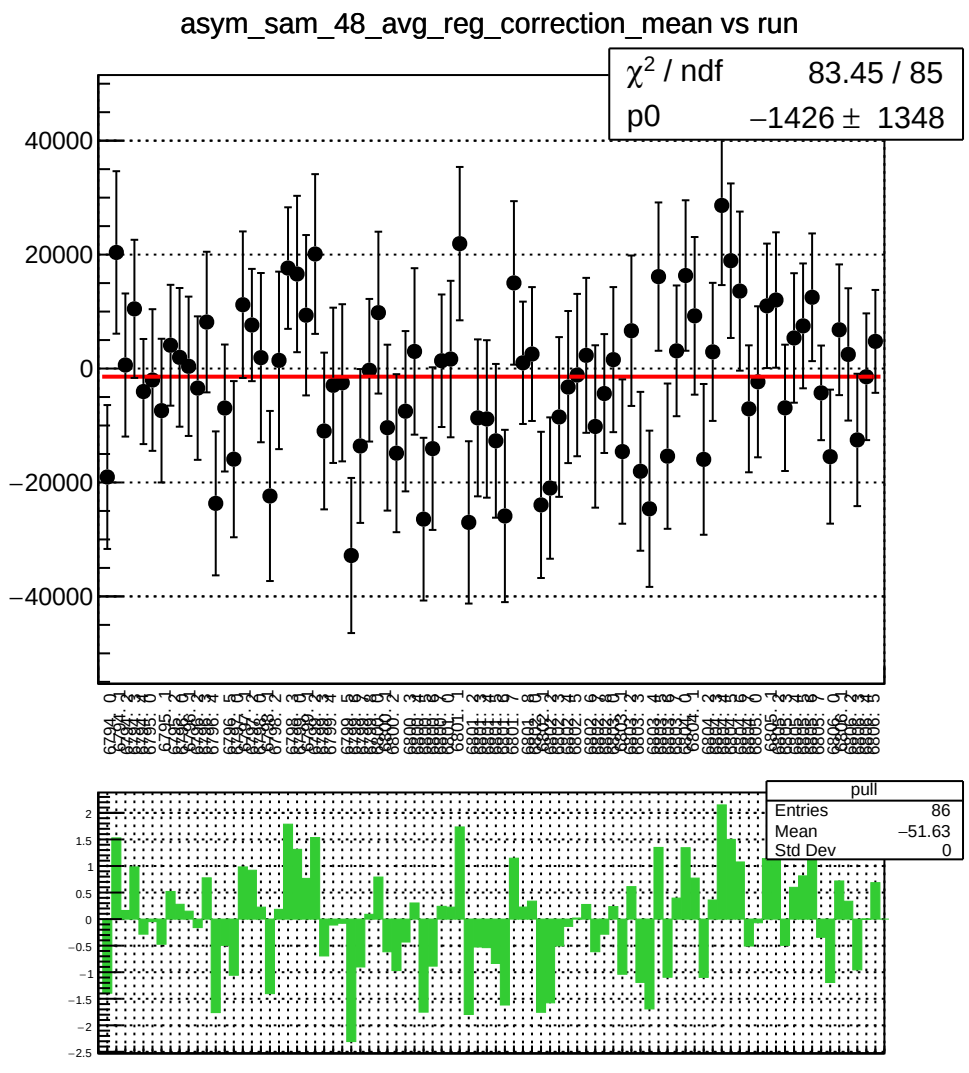

pull1D
Entries 86
Mean 0.1028
Std Dev 1.104

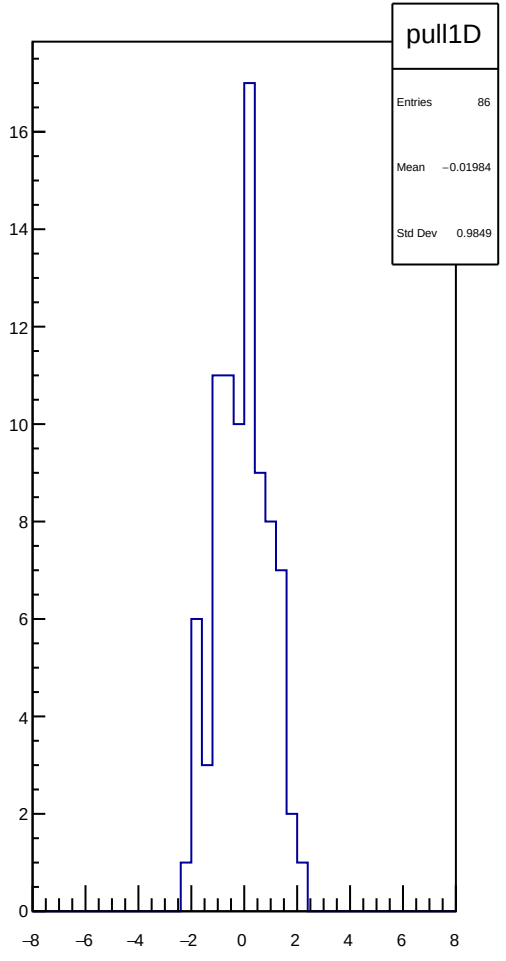

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 8.497e+05 / 85
p0 8.005e−12 ± 8.772e−15
80
70
60
50
40
30
20
10

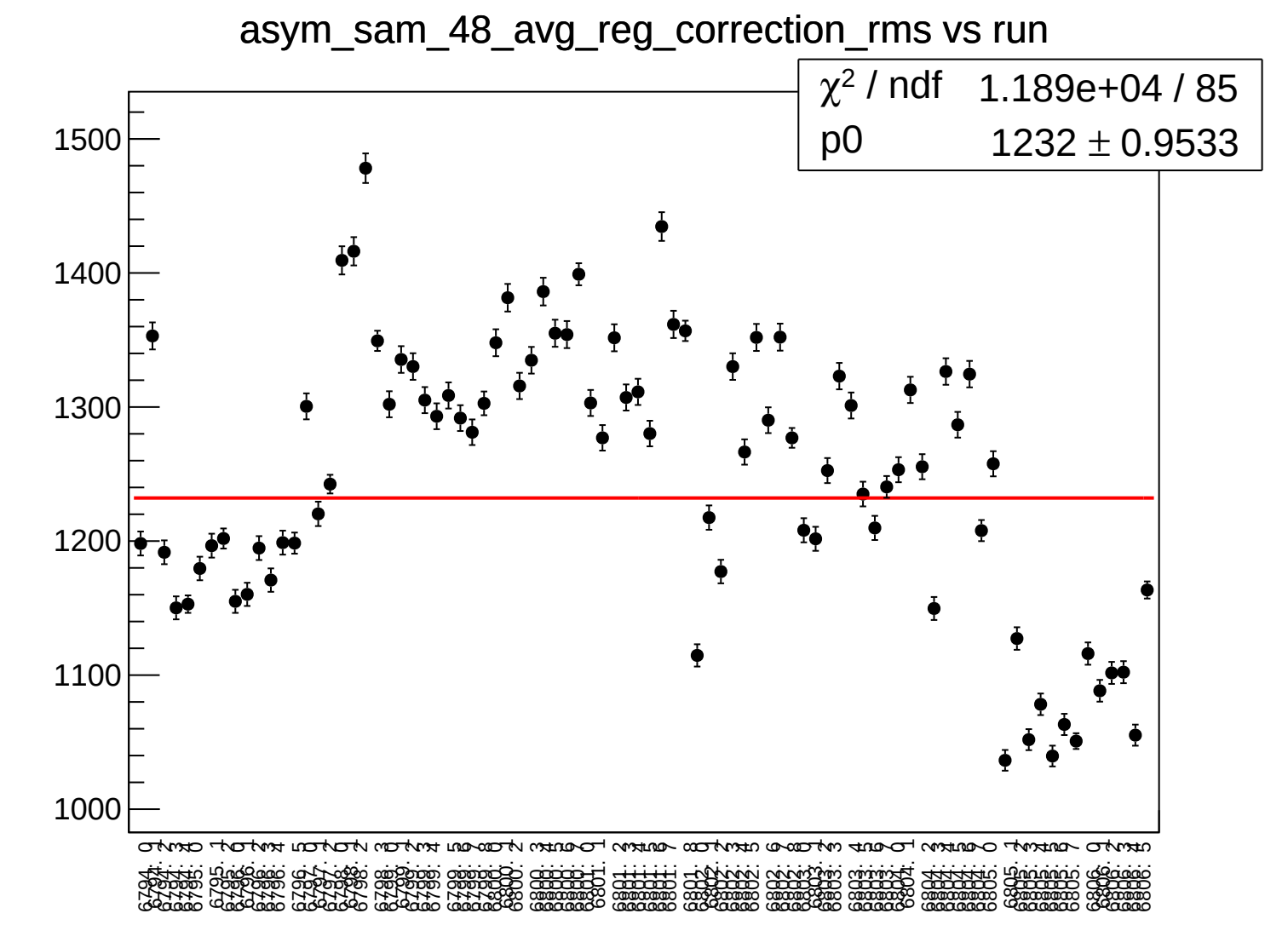

reg_asym_sam_48_avg_mean vs run
χ² / ndf 83.63 / 85
p0 −167.9 ± 179.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −8504
Std Dev 0
2
1
0
−1
−2

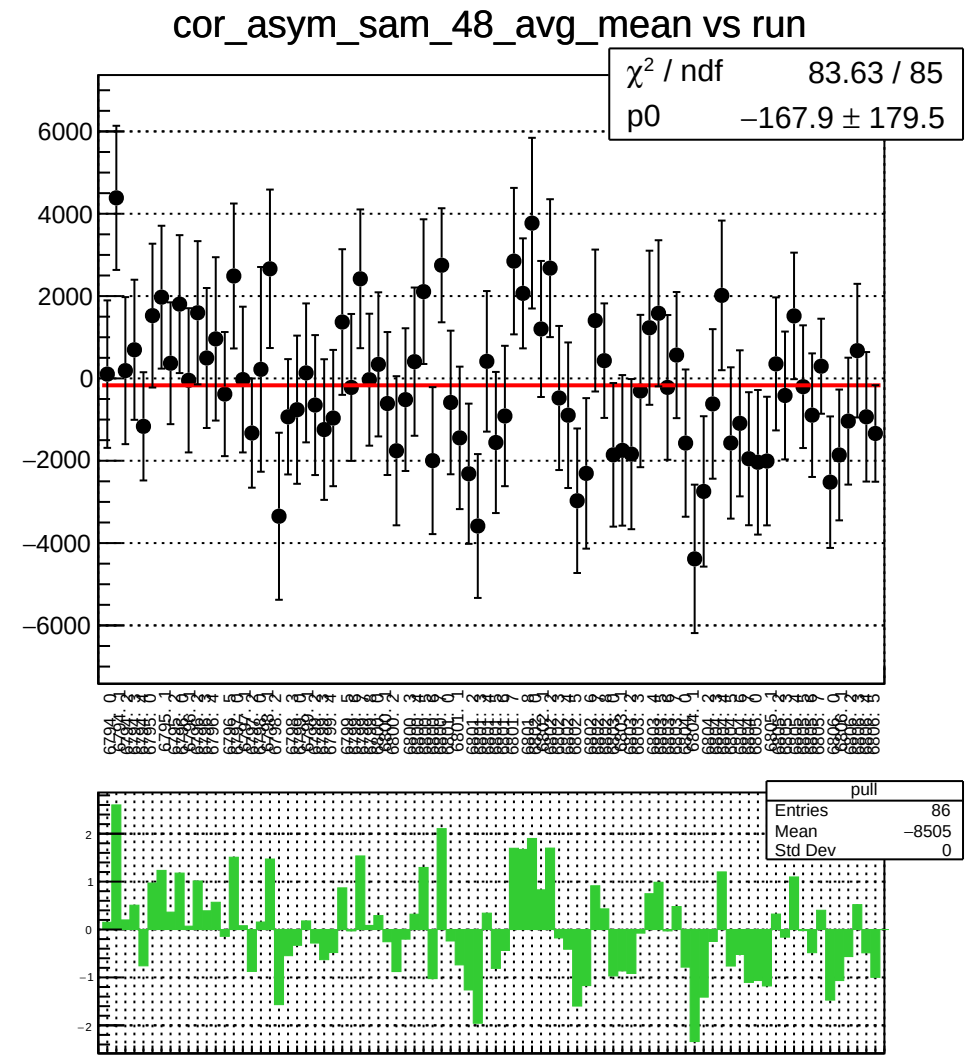

pull1D
Entries 86
Mean 0.0008764
Std Dev 0.9861
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

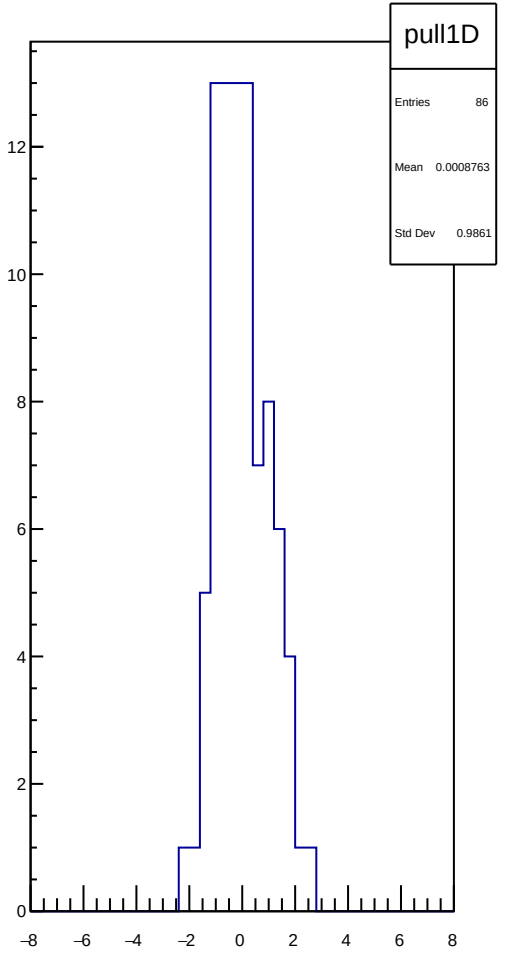

reg_asym_sam_48_avg_rms vs run
χ² / ndf 7644 / 85
p0 164.3 ± 0.127
240
220
200
180
160
140

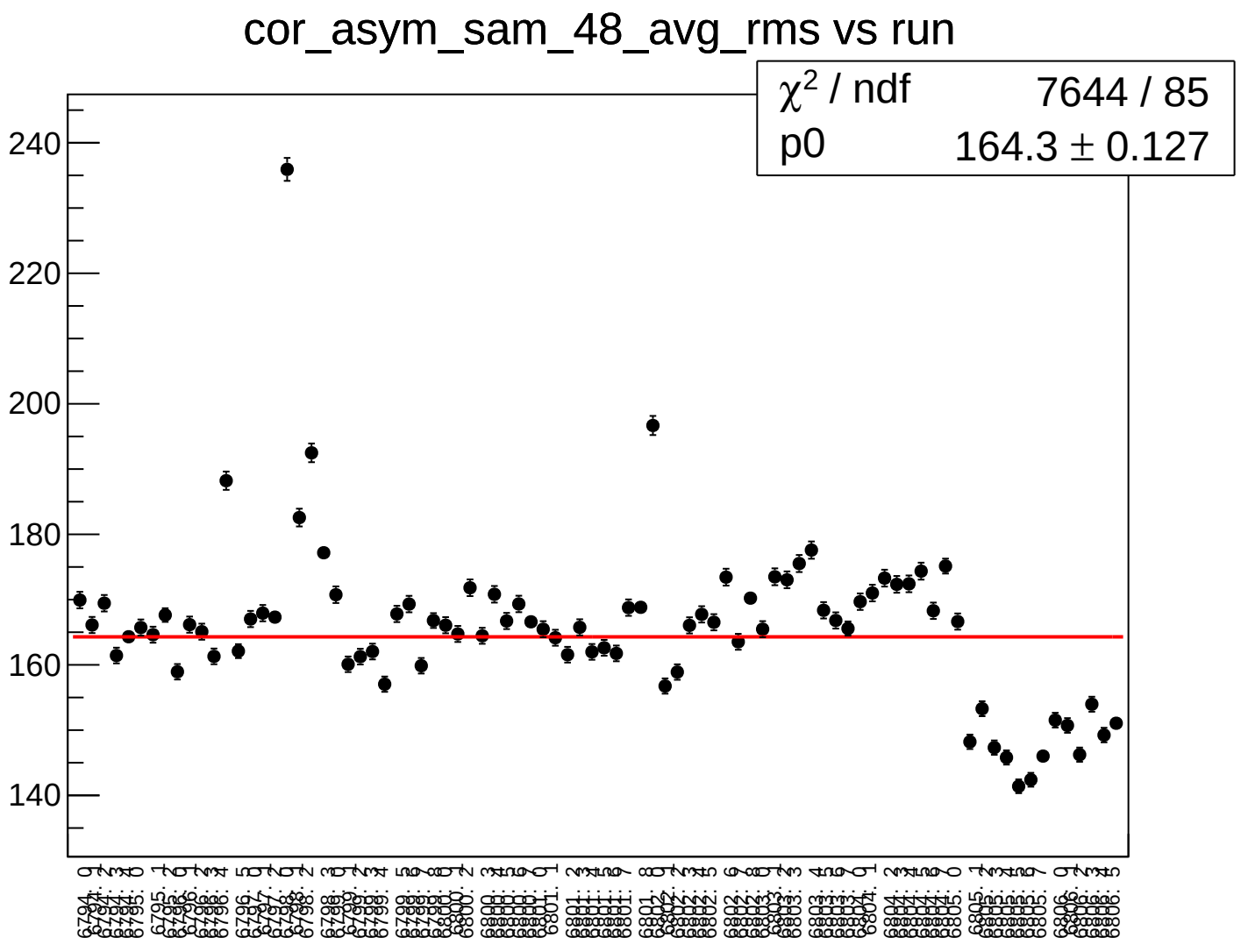

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 83.45 / 85
p0 −1426 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

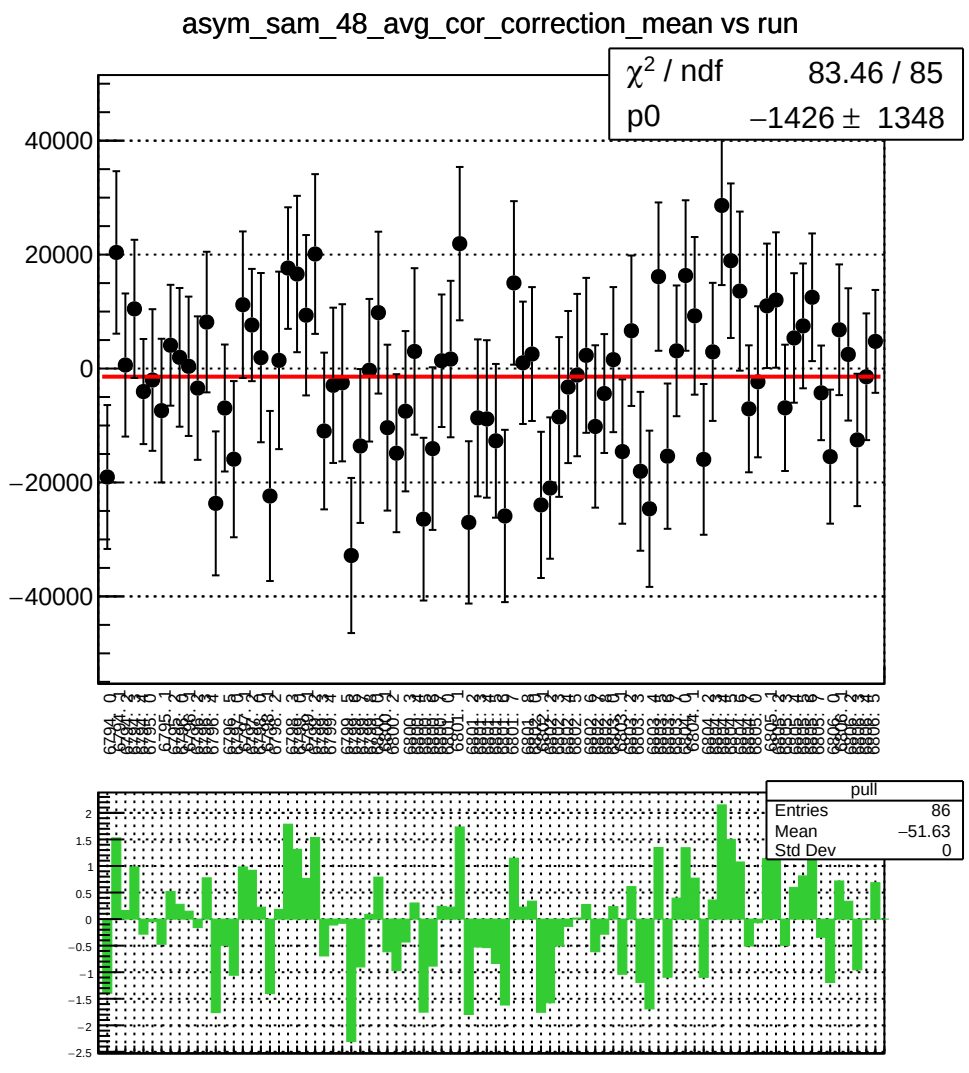

pull1D
Entries 86
Mean −0.01984
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

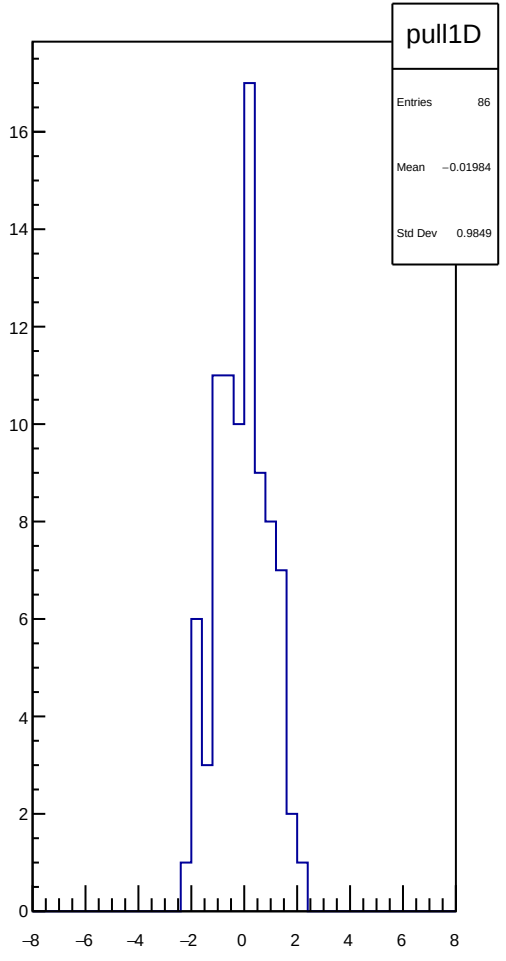

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.189e+04 / 85
p0 1232 ± 0.9533
1500
1400
1300
1200
1100
1000

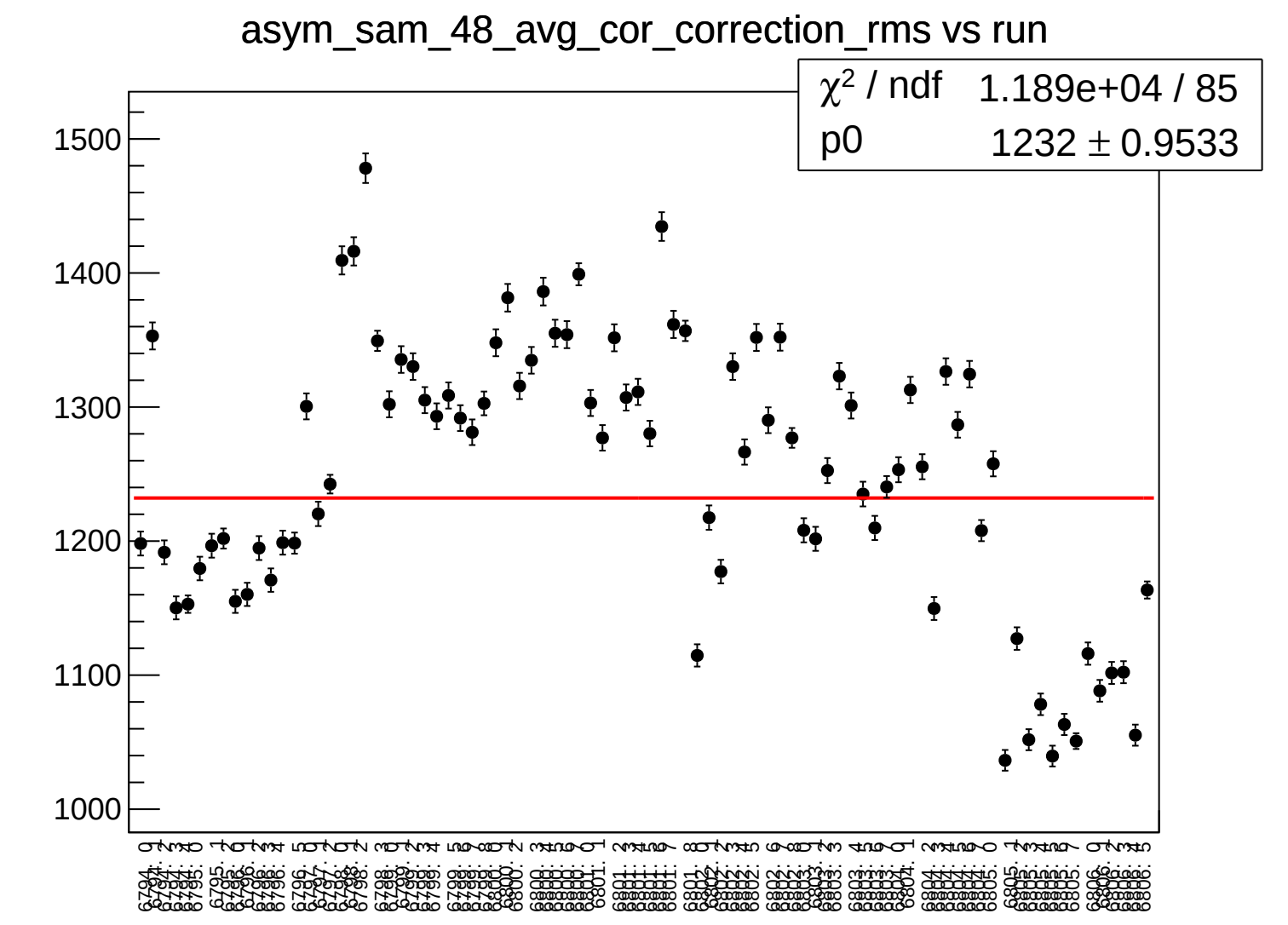

cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.63 / 85
p0 −167.9 ± 179.5
pull
Entries 86
Mean −8505
Std Dev 0

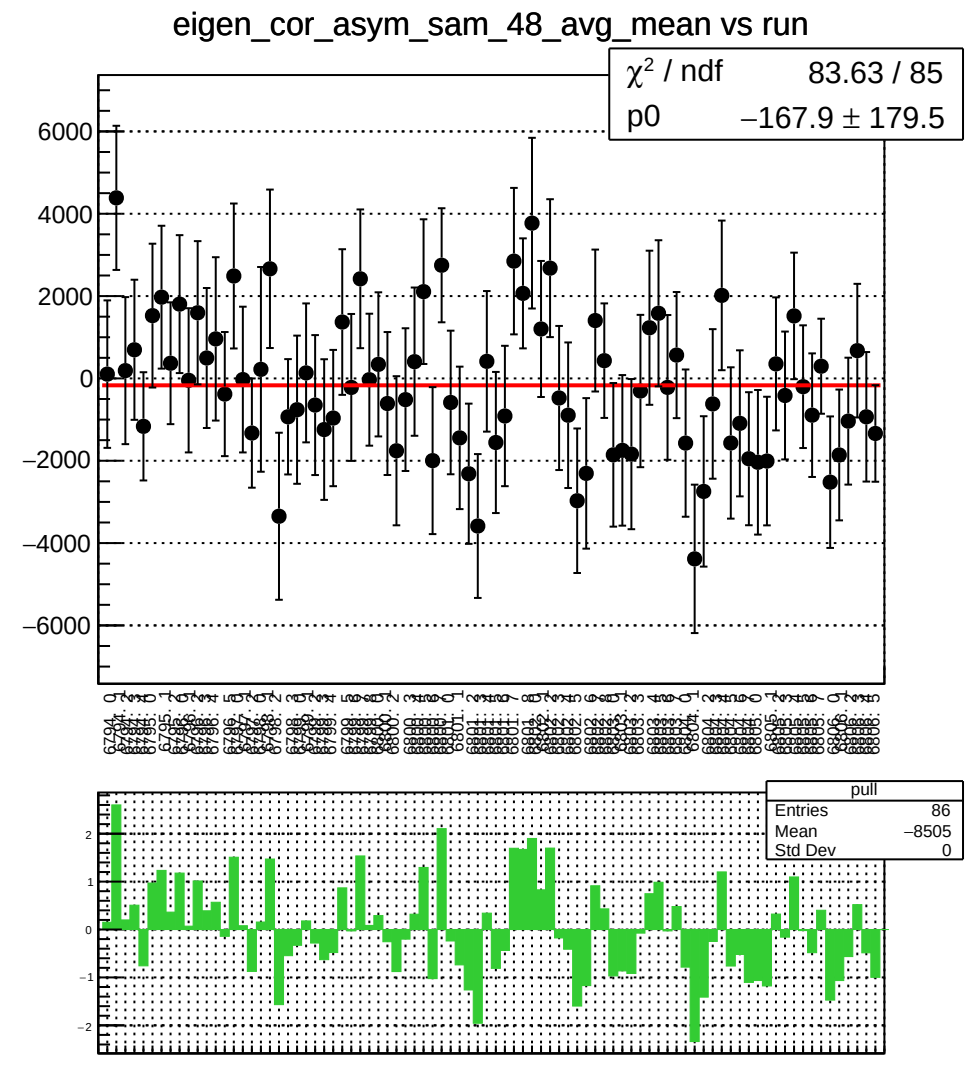

pull1D
Entries 86
Mean 0.0008763
Std Dev 0.9861

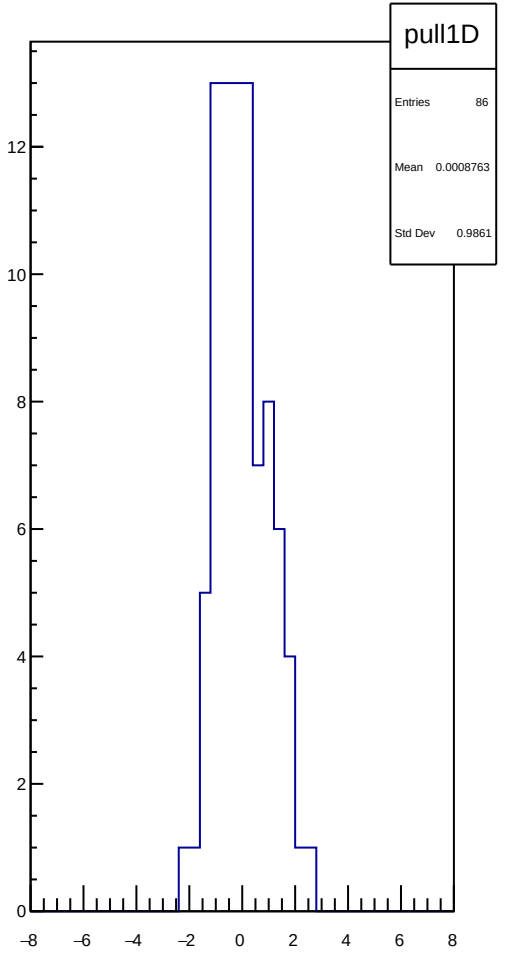

cor_asym_sam_48_avg_rms vs run
χ² / ndf 7644 / 85
p0 164.3 ± 0.127
240
220
200
180
160
140

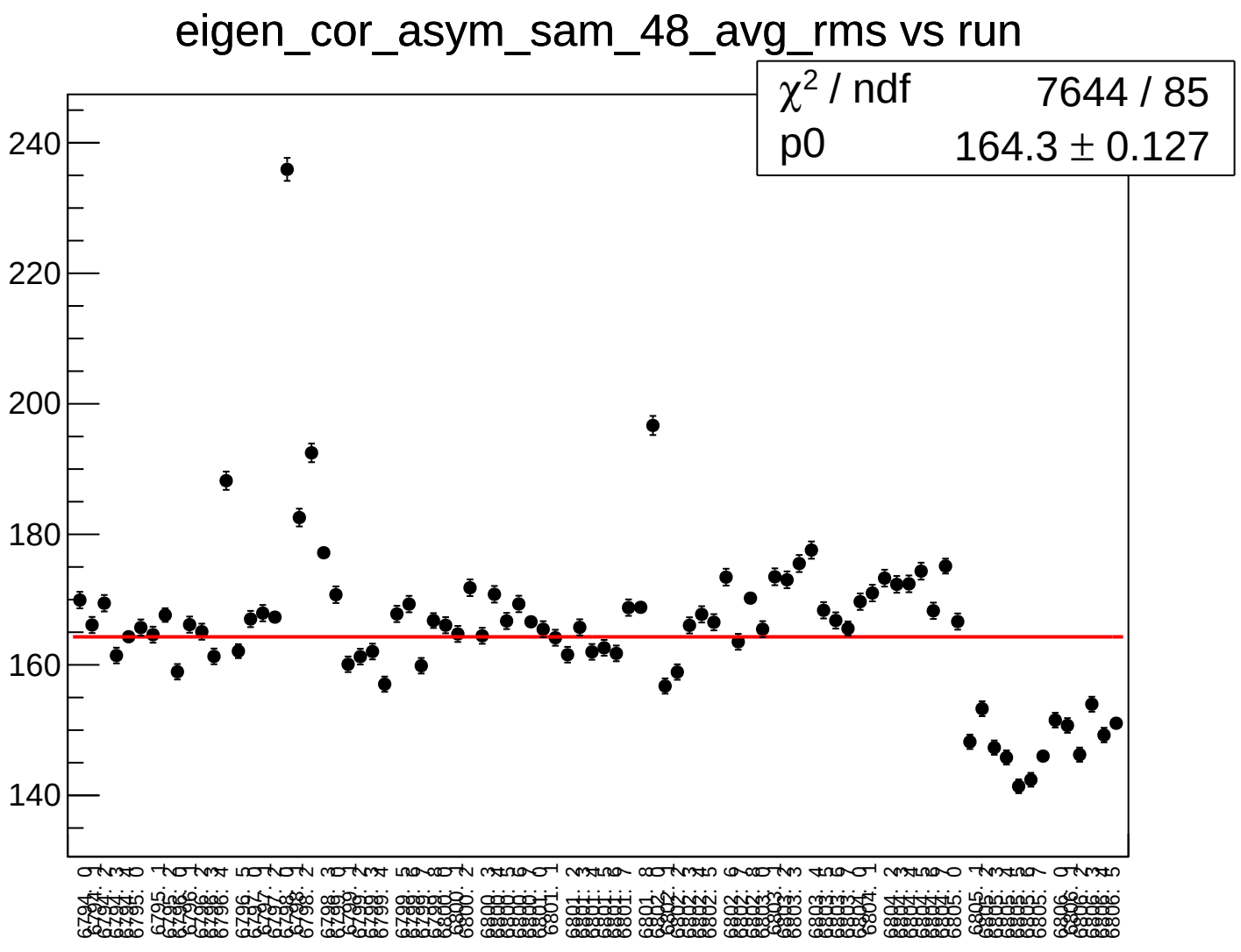

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 83.46 / 85
p0 −1426 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

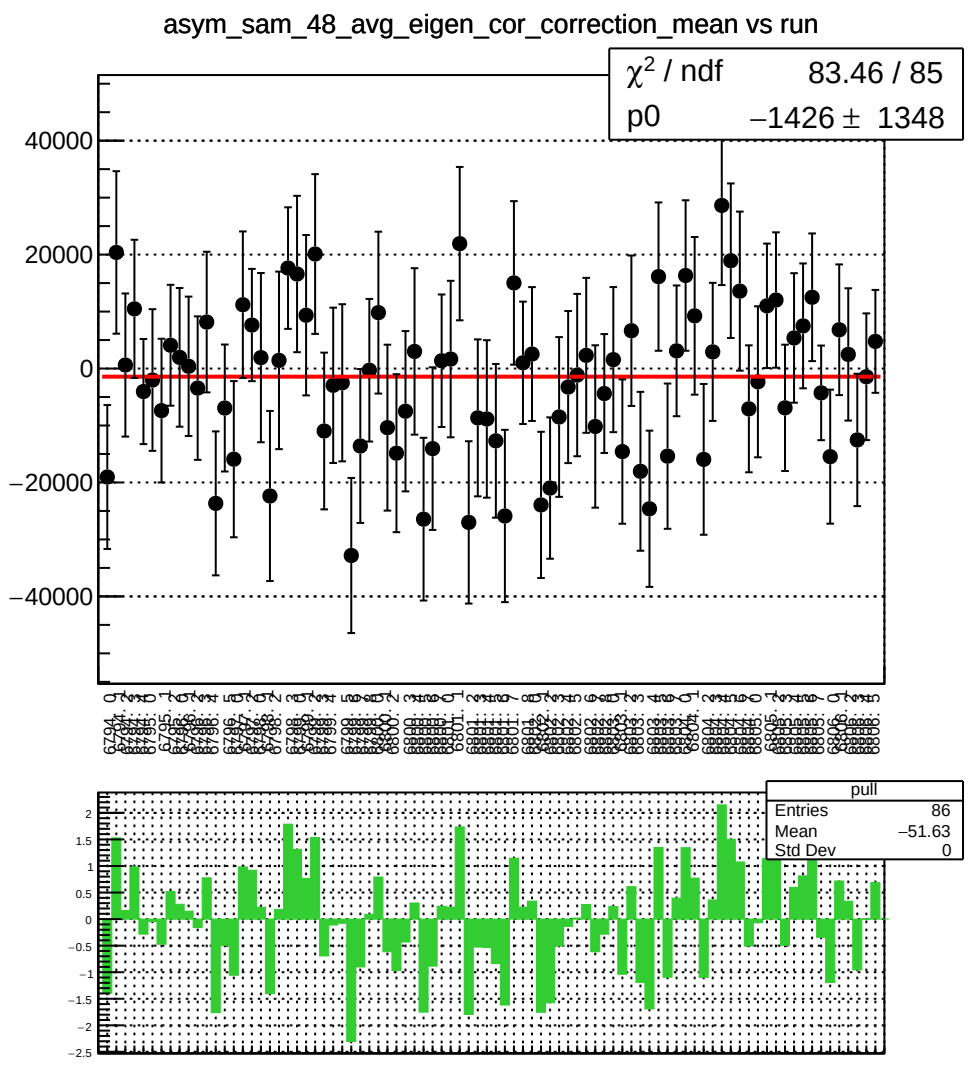

pull1D
Entries 86
Mean −0.01984
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

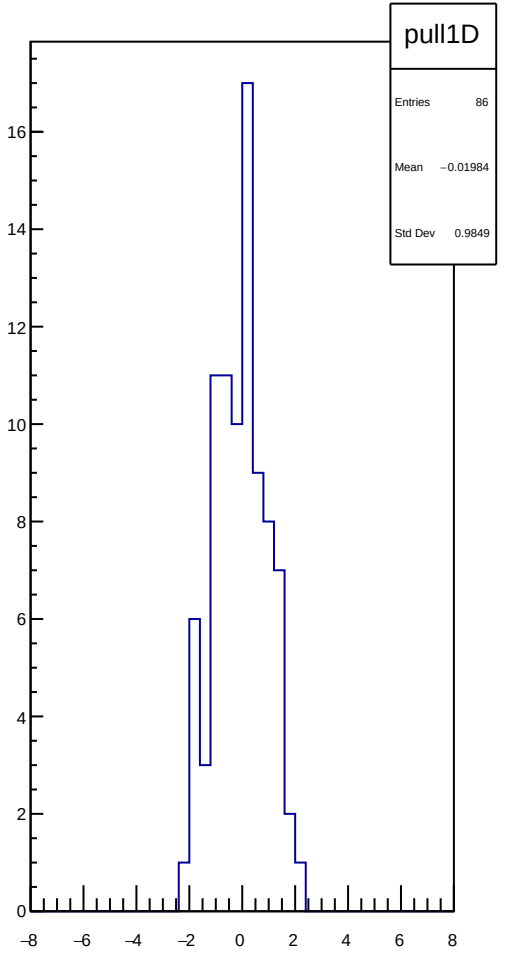

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 85
p0 1232 ± 0.9533
1500
1400
1300
1200
1100
1000

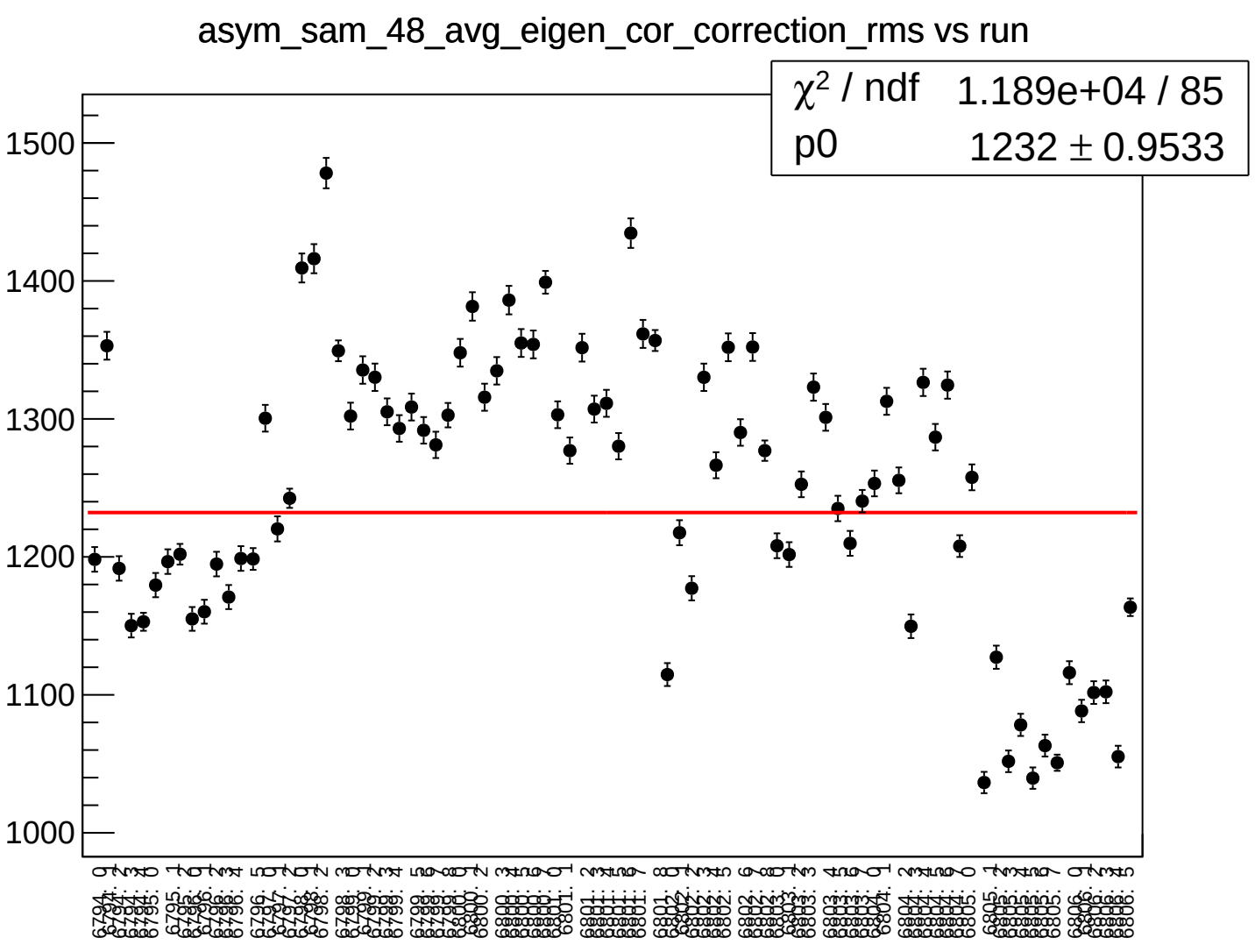

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.63 / 85
p0 −167.9 ± 179.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −8505
Std Dev 0
2
1
0
−1
−2

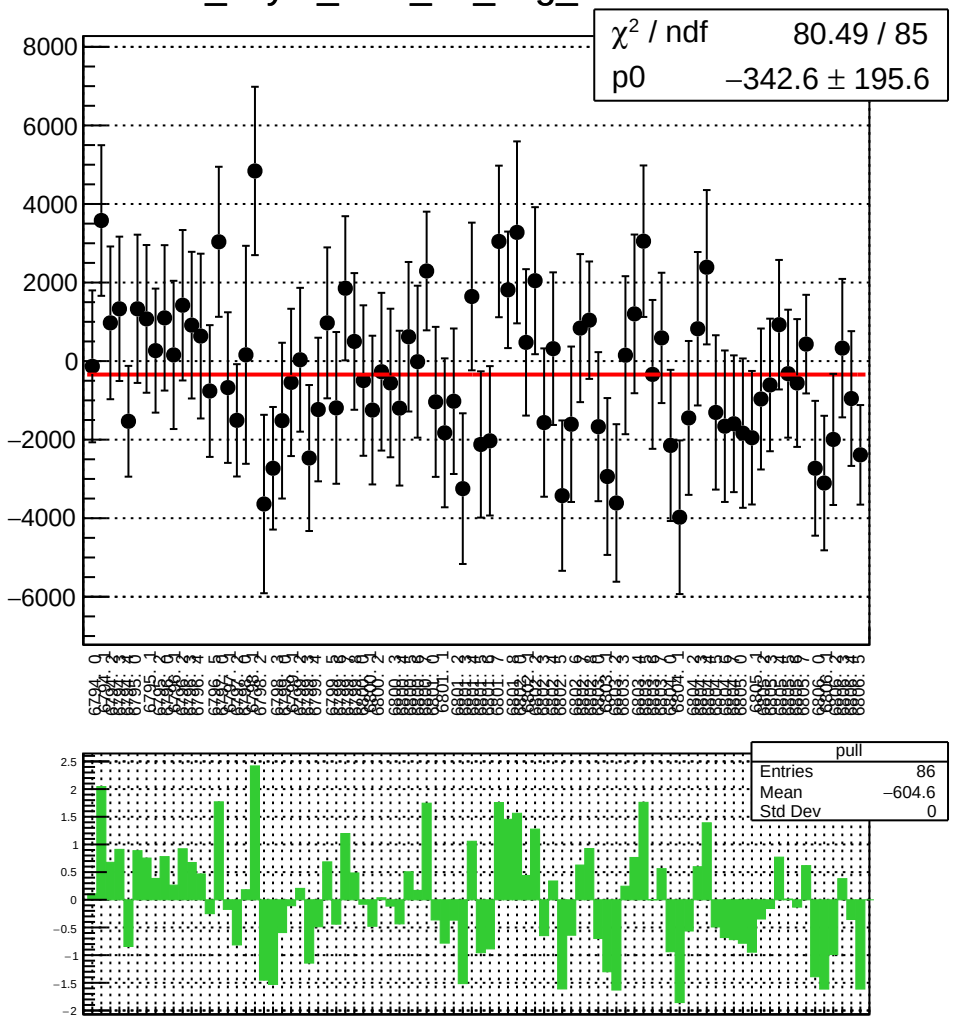

pull1D
Entries 86
Mean 0.0008763
Std Dev 0.9861
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

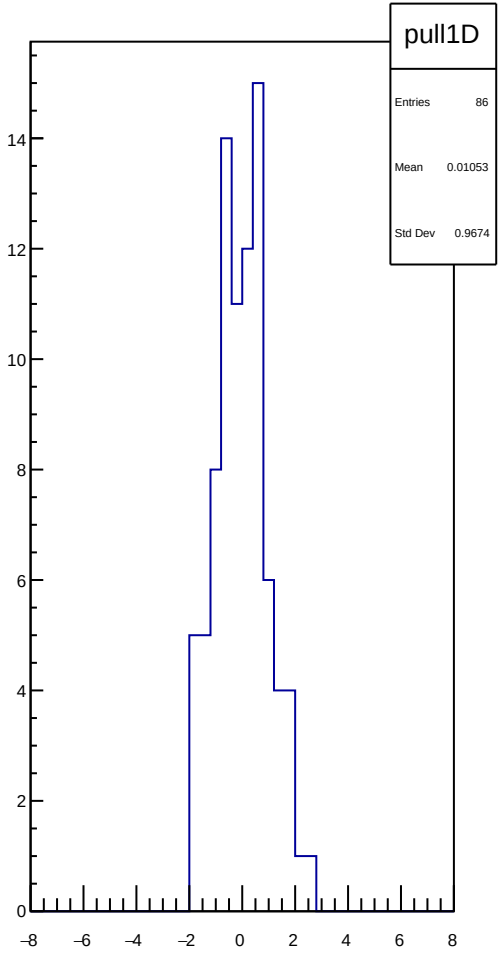

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 7644 / 85
p0 164.3 ± 0.127
240
220
200
180
160
140

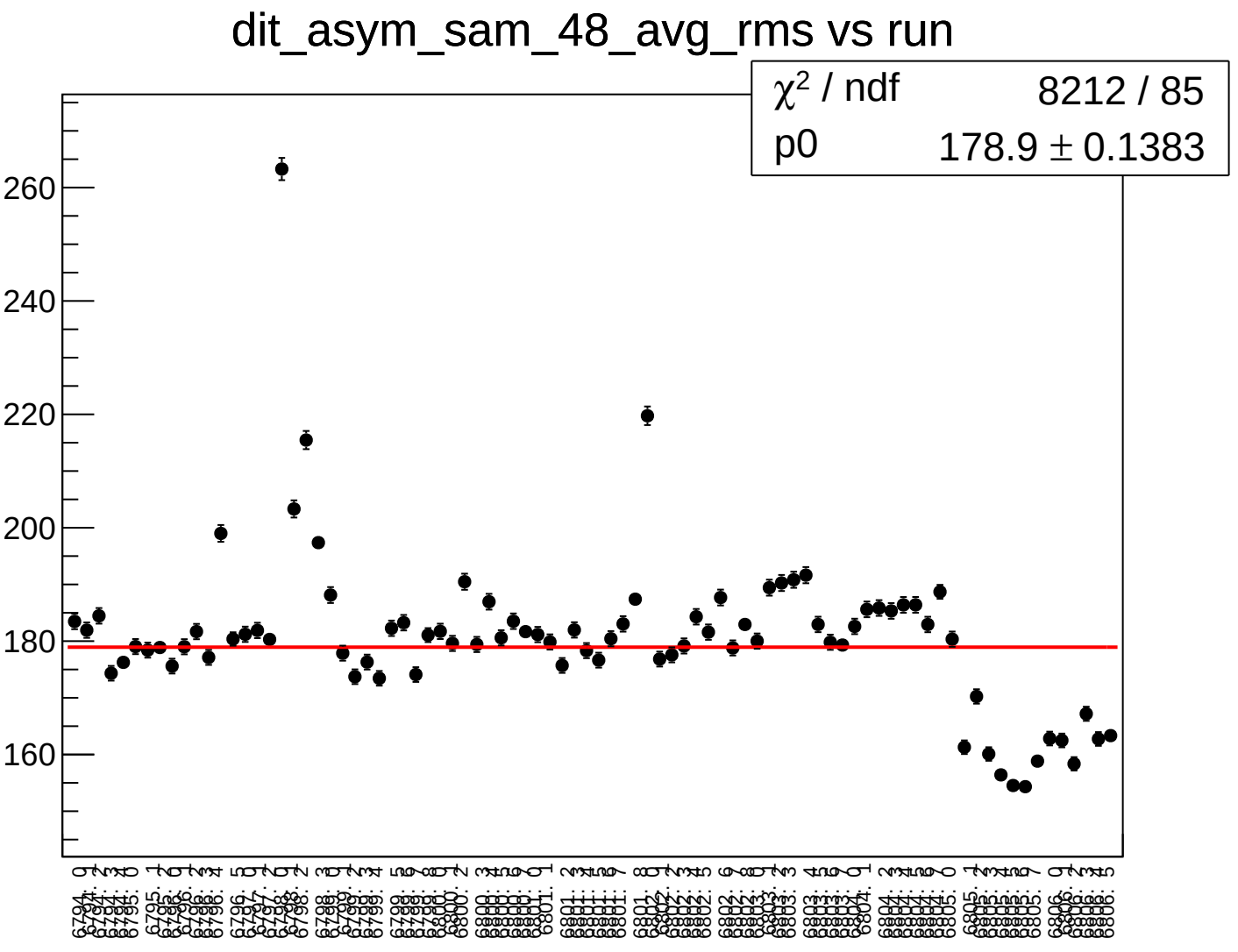

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 83.46 / 85
p0 −1426 ± 1348
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −51.63
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

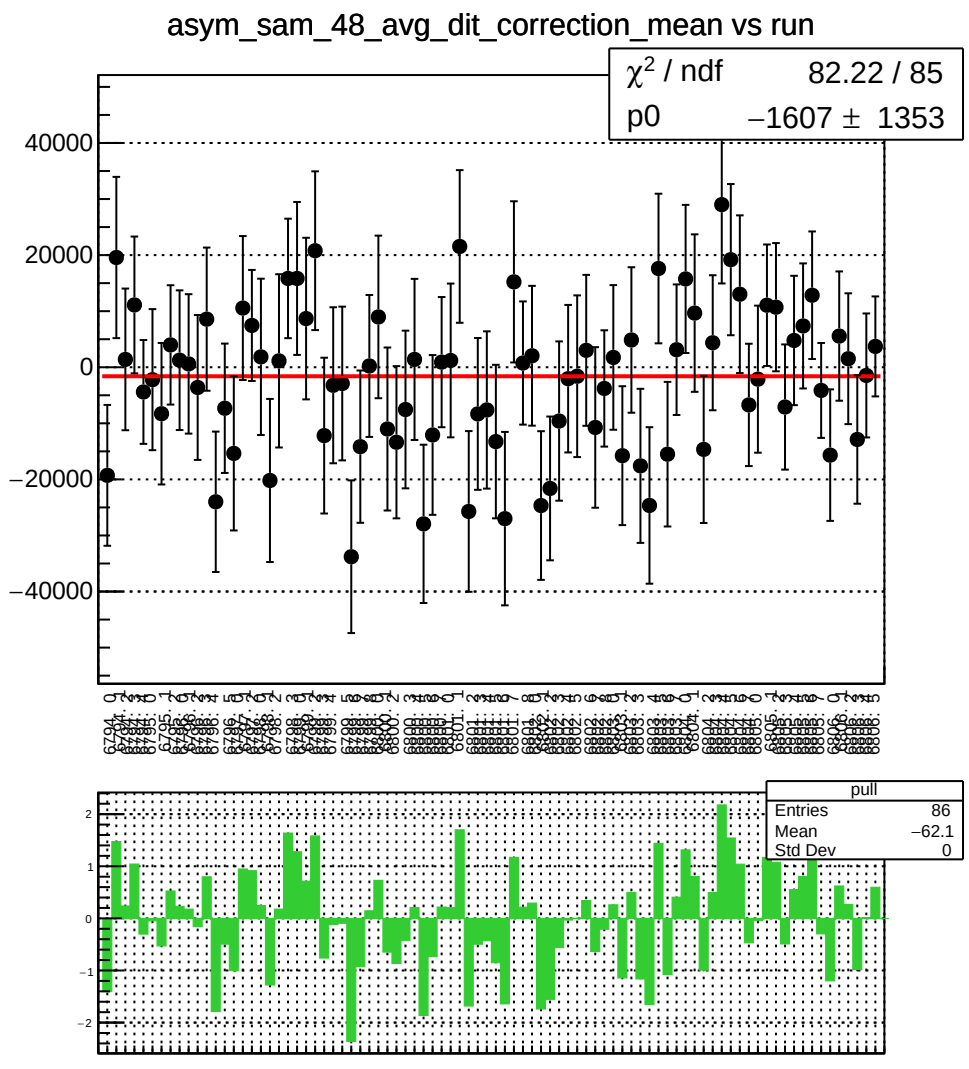

pull1D
Entries 86
Mean −0.01984
Std Dev 0.9849
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

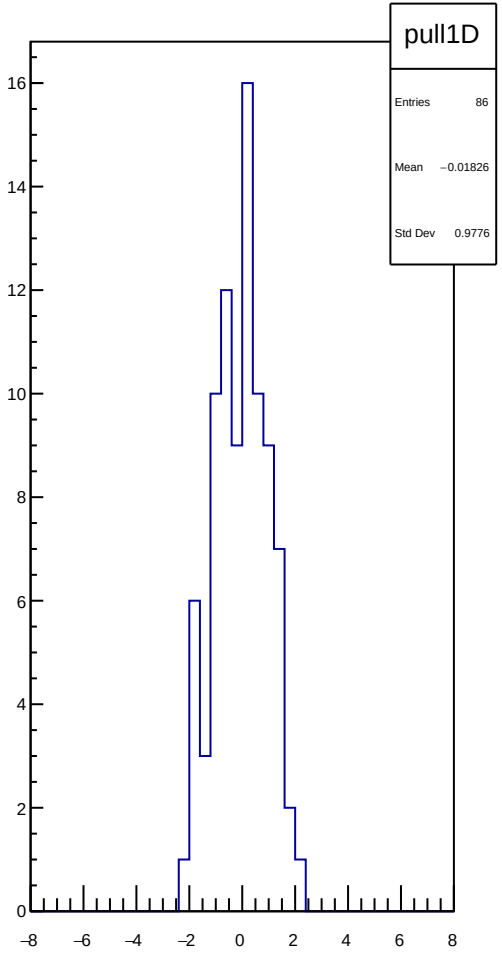

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.189e+04 / 85
p0 1232 ± 0.9533
1500
1400
1300
1200
1100
1000

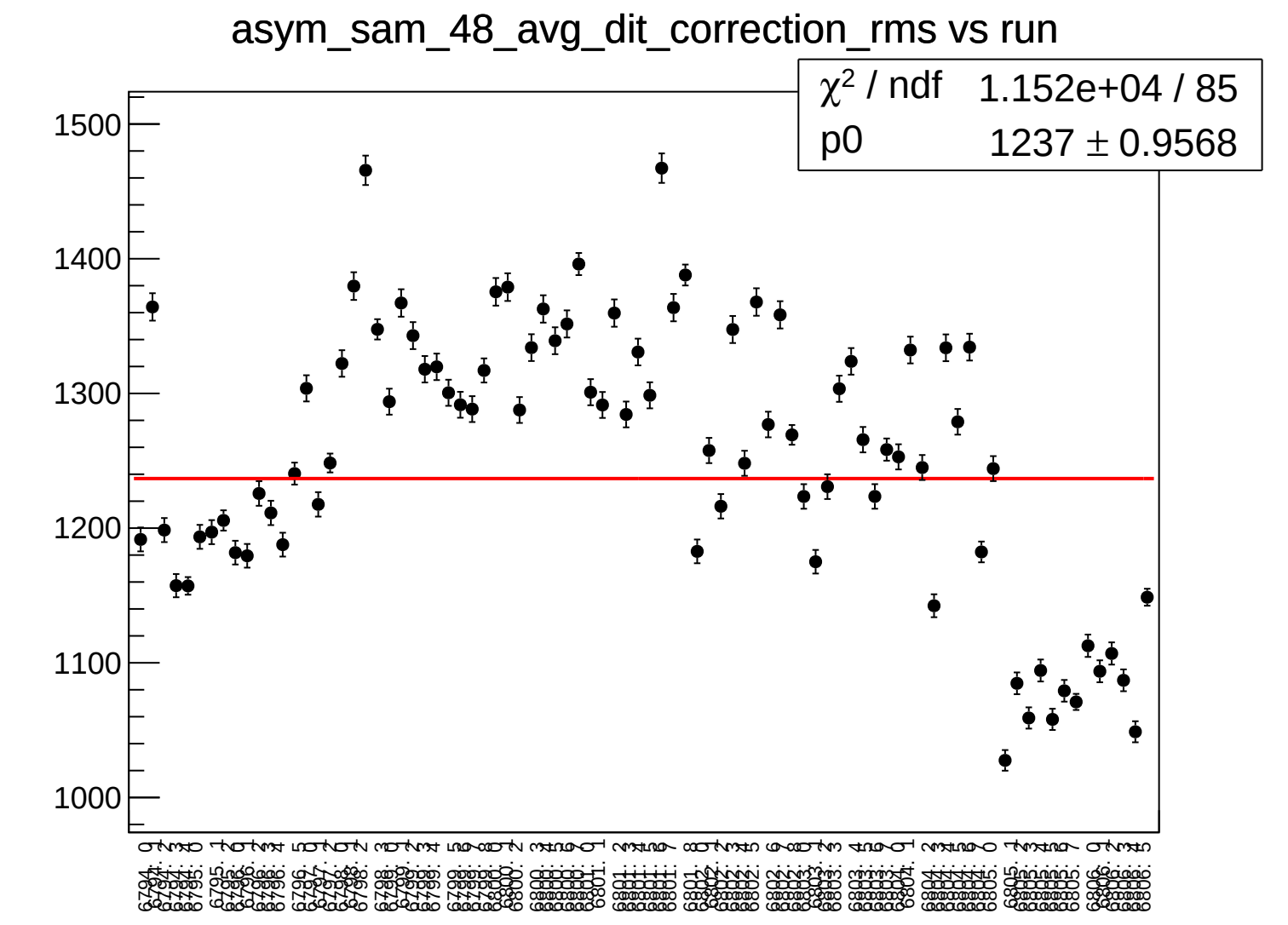

dit_asym_sam_48_avg_mean vs run
χ² / ndf 80.49 / 85
p0 −342.6 ± 195.6
pull
Entries 86
Mean −604.6
Std Dev 0

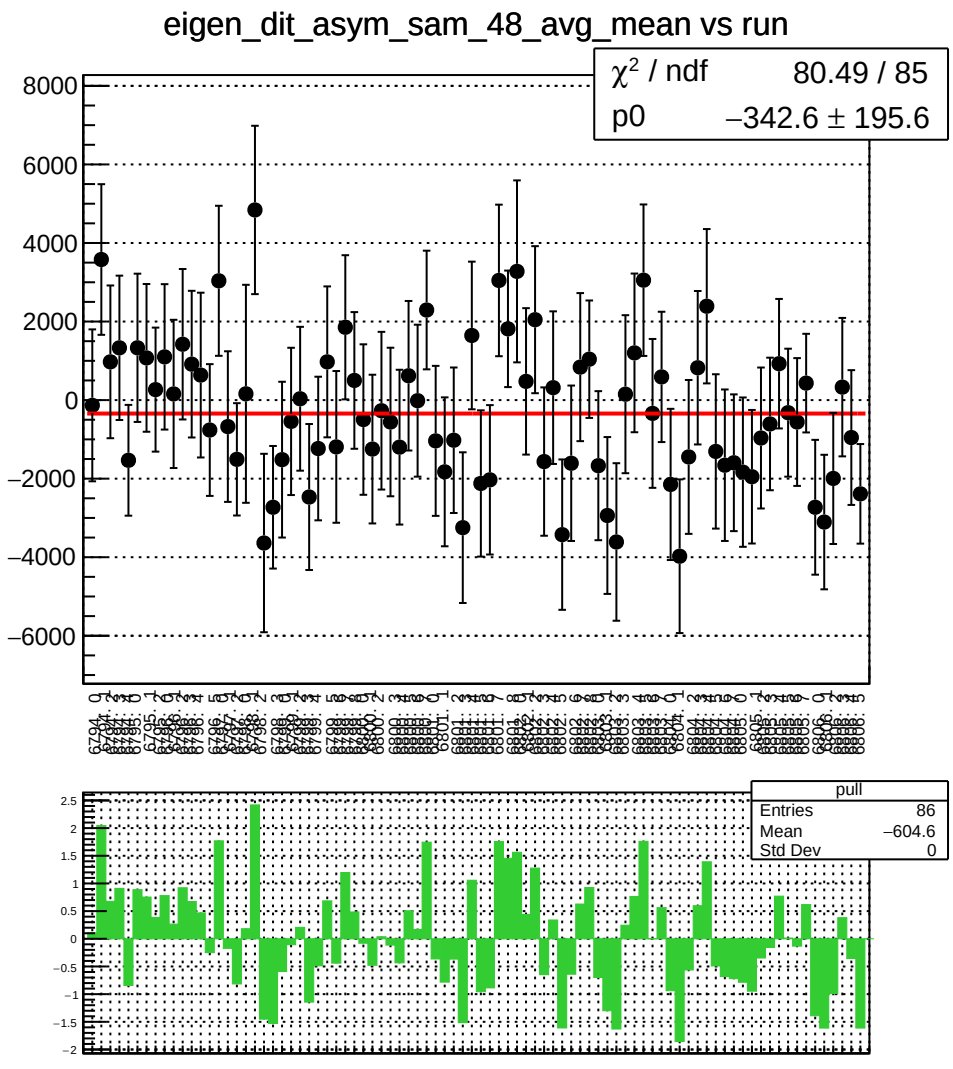

pull1D
Entries 86
Mean 0.01053
Std Dev 0.9674

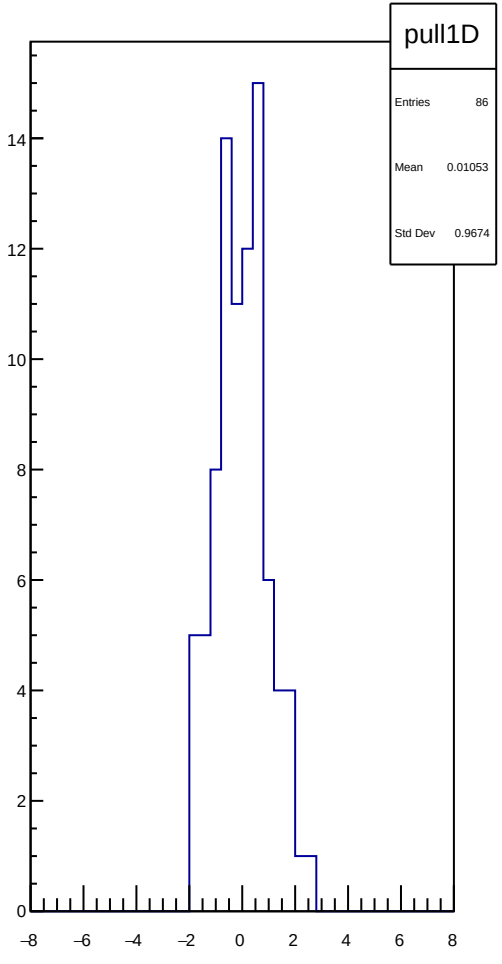

dit_asym_sam_48_avg_rms vs run
χ² / ndf 8212 / 85
p0 178.9 ± 0.1383
260
240
220
200
180
160

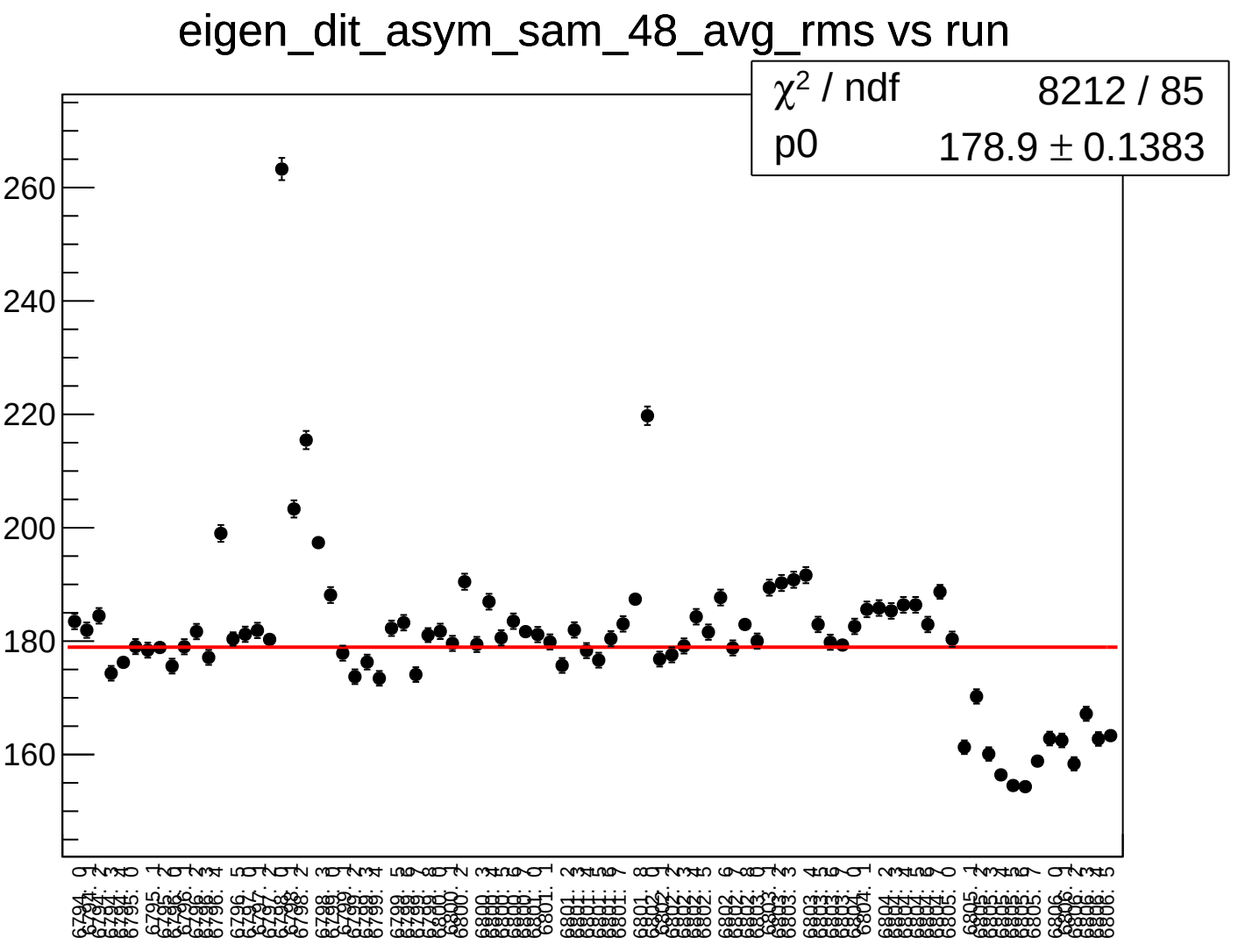

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 82.22 / 85
p0 −1607 ± 1353
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −62.1
Std Dev 0
2
1
0
−1
−2

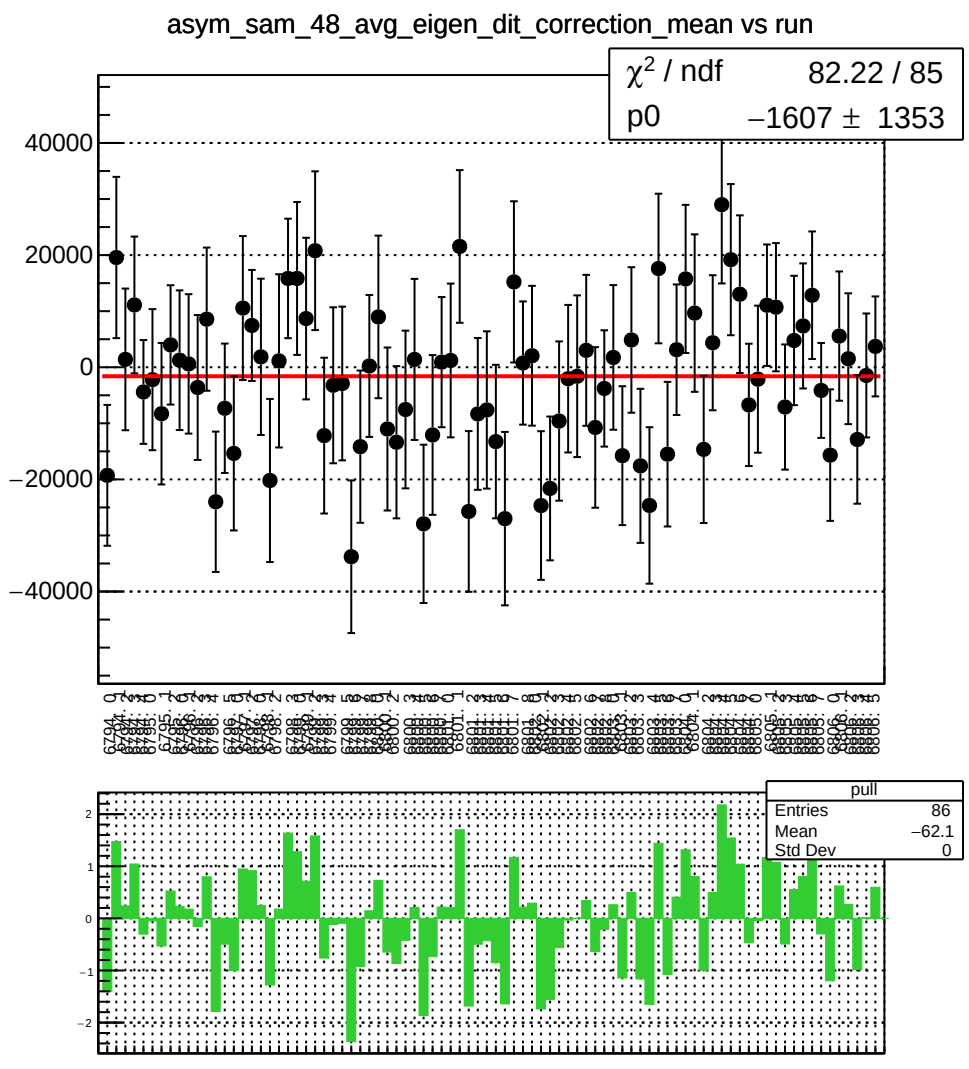

pull1D
Entries 86
Mean −0.01826
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

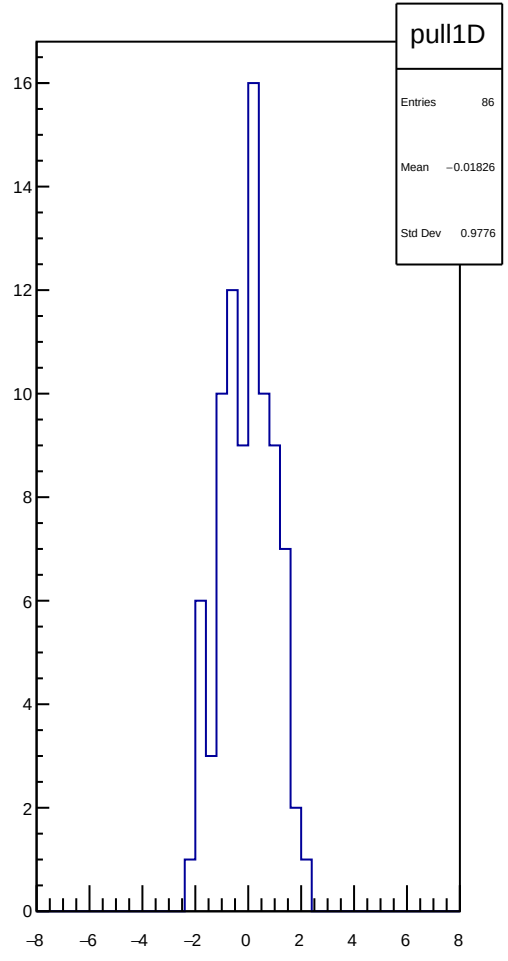

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.152e+04 / 85
p0 1237 ± 0.9568
1500
1400
1300
1200
1100
1000

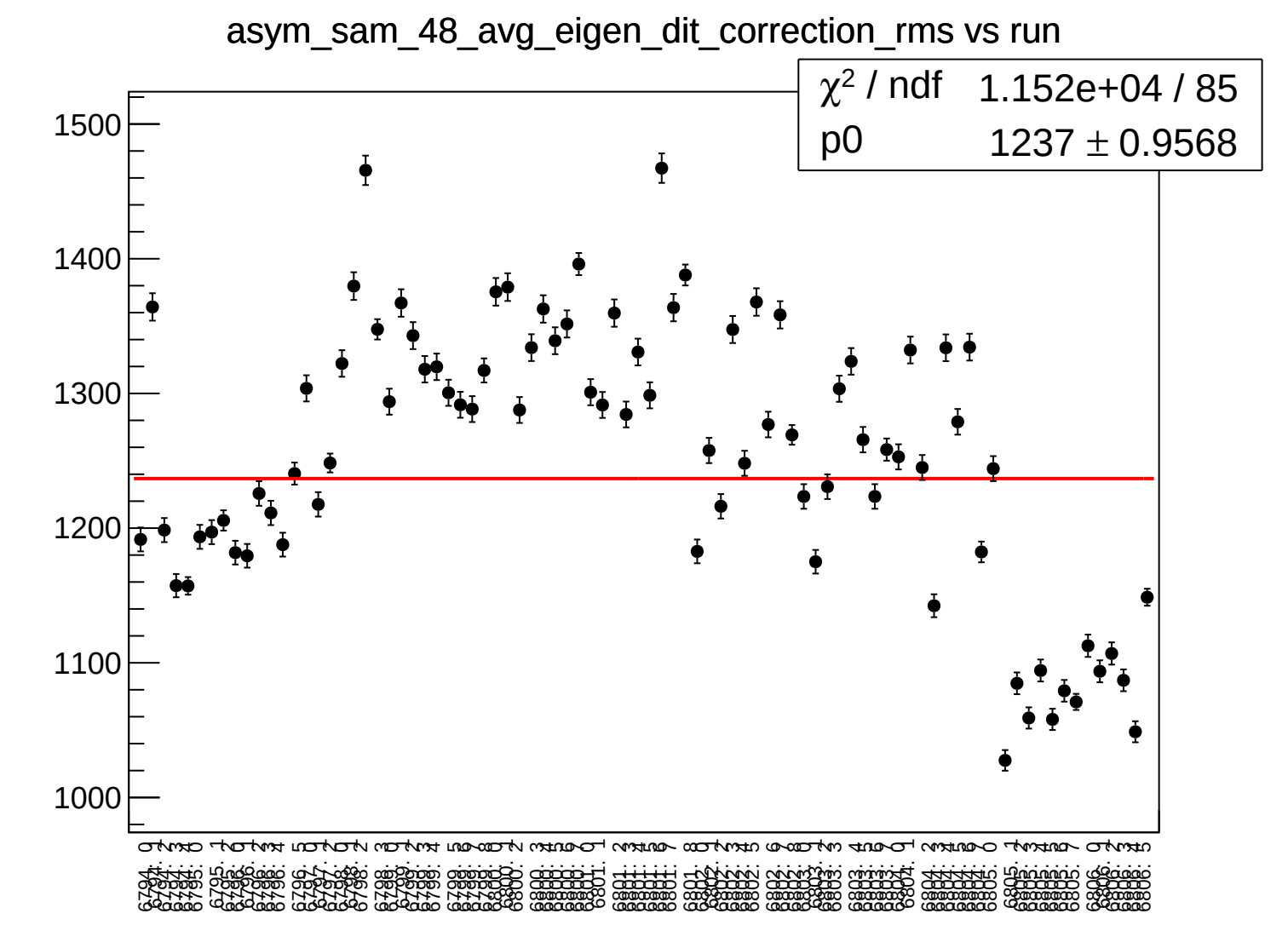

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 80.49 / 85
p0 −342.6 ± 195.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −604.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

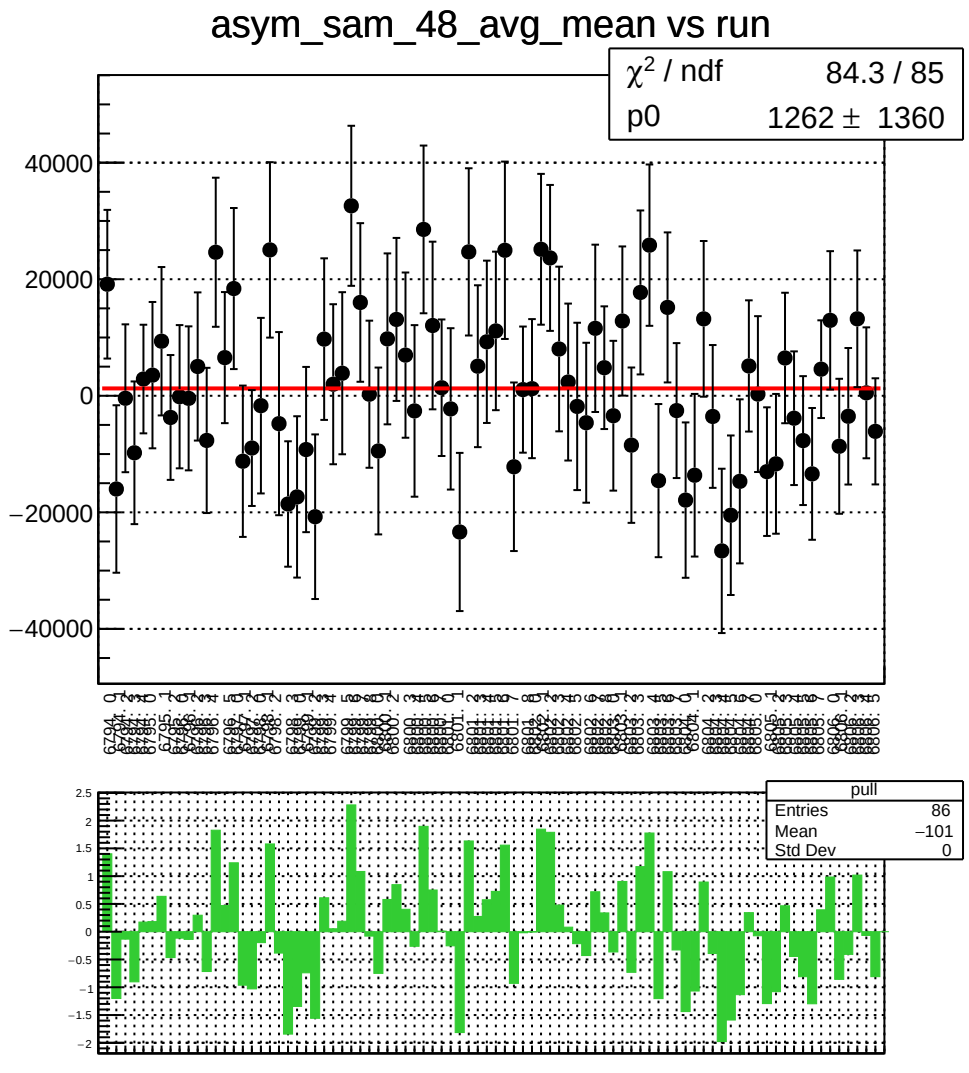

pull1D
Entries 86
Mean 0.01053
Std Dev 0.9674
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

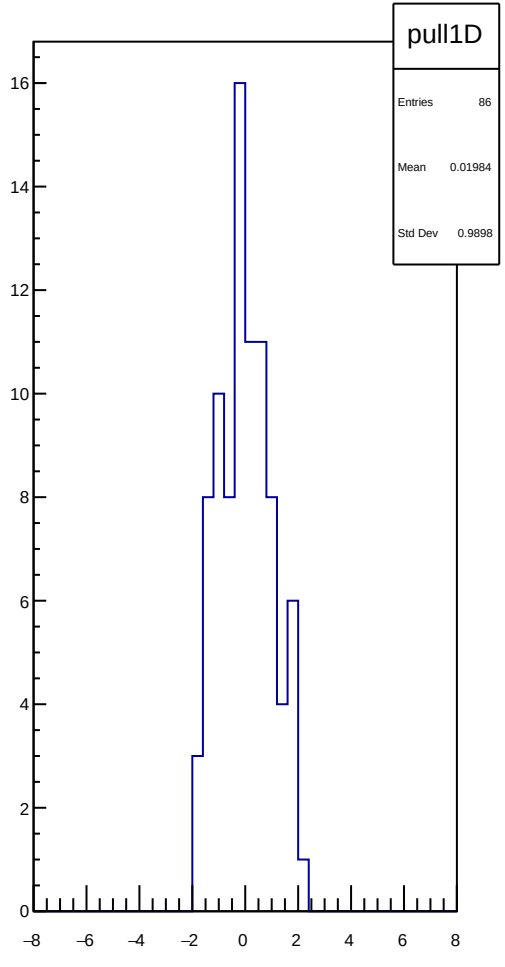

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 8212 / 85
p0 178.9 ± 0.1383
260
240
220
200
180
160

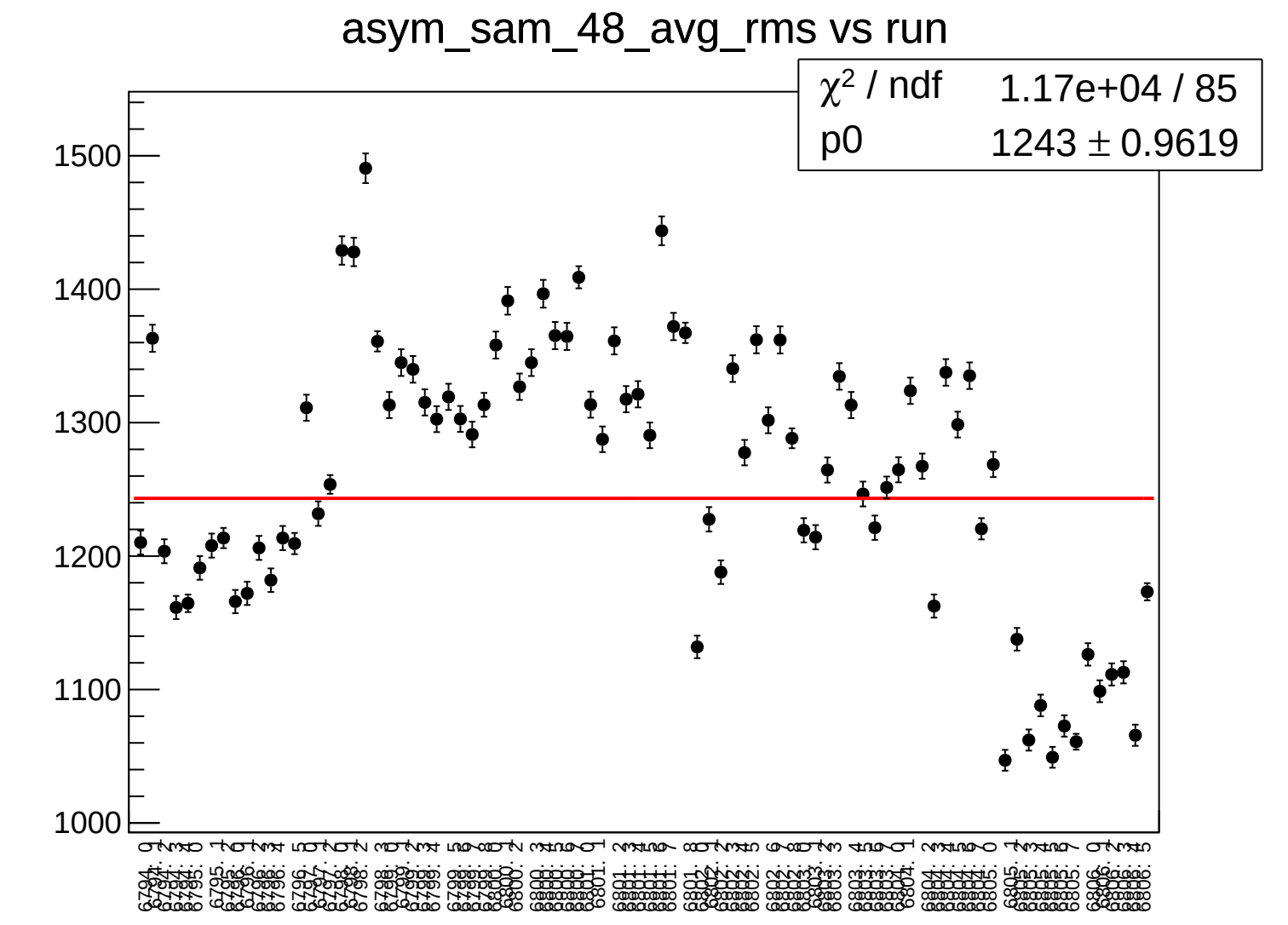

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.22 / 85
p0 −1607 ± 1353
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −62.1
Std Dev 0
2
1
0
−1
−2

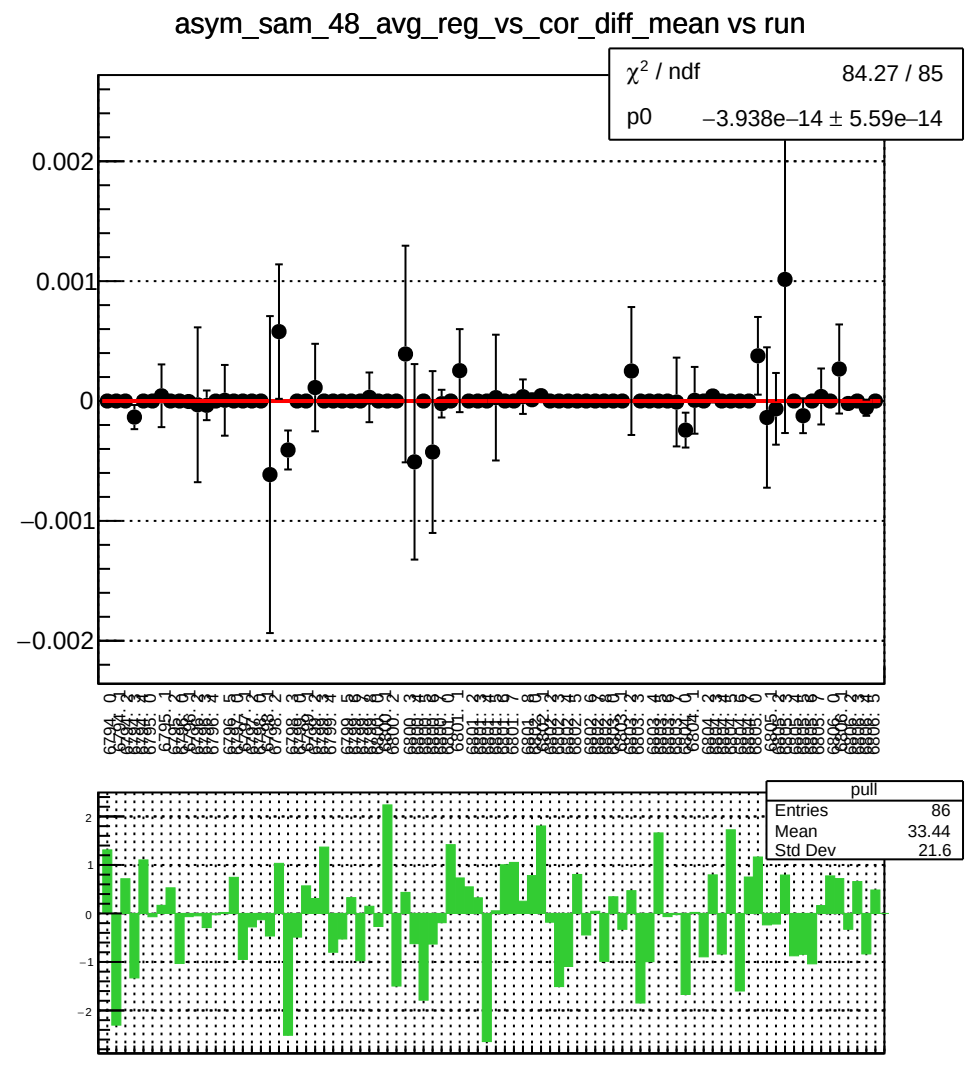

pull1D
Entries 86
Mean −0.01826
Std Dev 0.9776
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

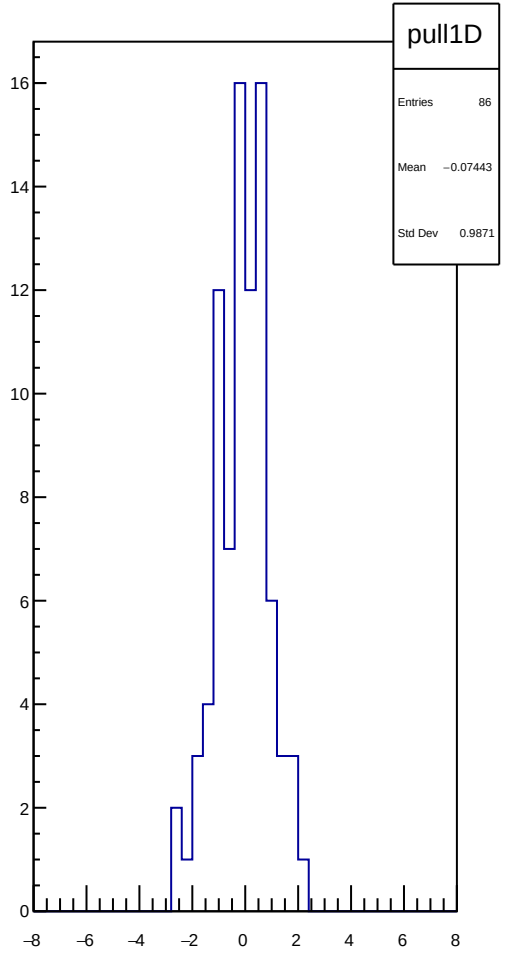

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.152e+04 / 85
p0 1237 ± 0.9568
1500
1400
1300
1200
1100
1000

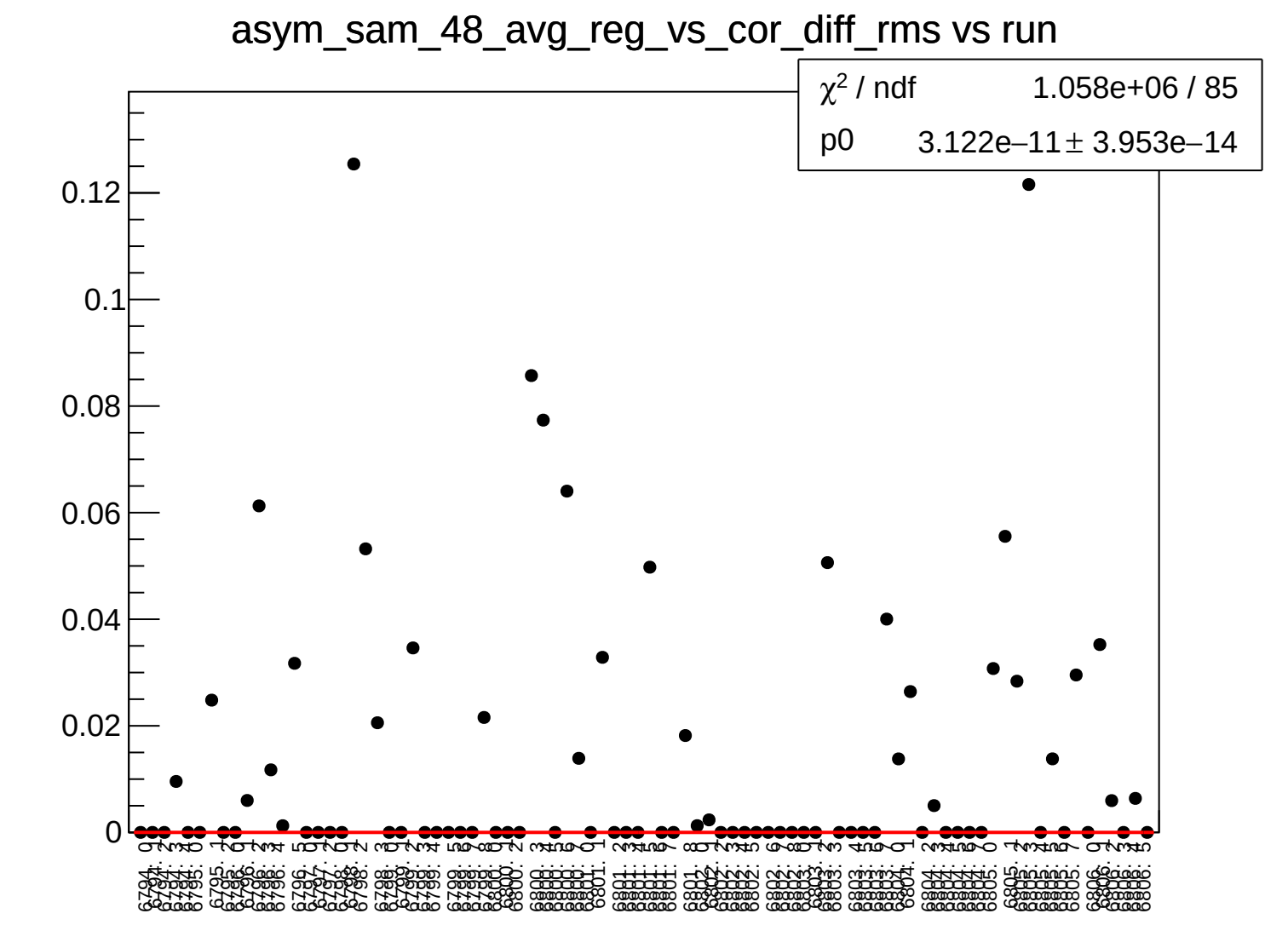

asym_sam_48_avg_mean vs run
χ² / ndf 84.3 / 85
p0 1262 ± 1360
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −101
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

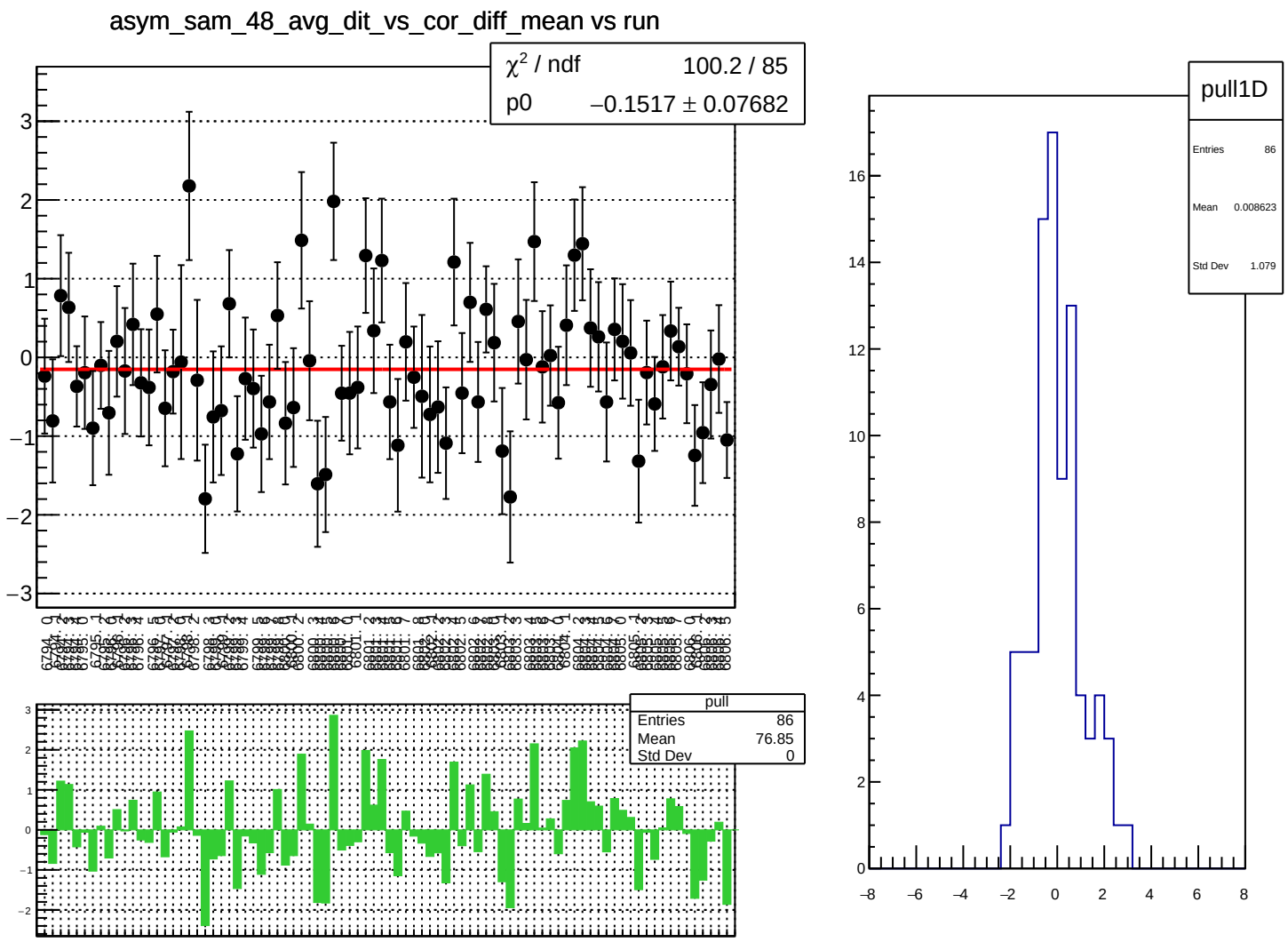

pull1D
Entries 86
Mean 0.01984
Std Dev 0.9898
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

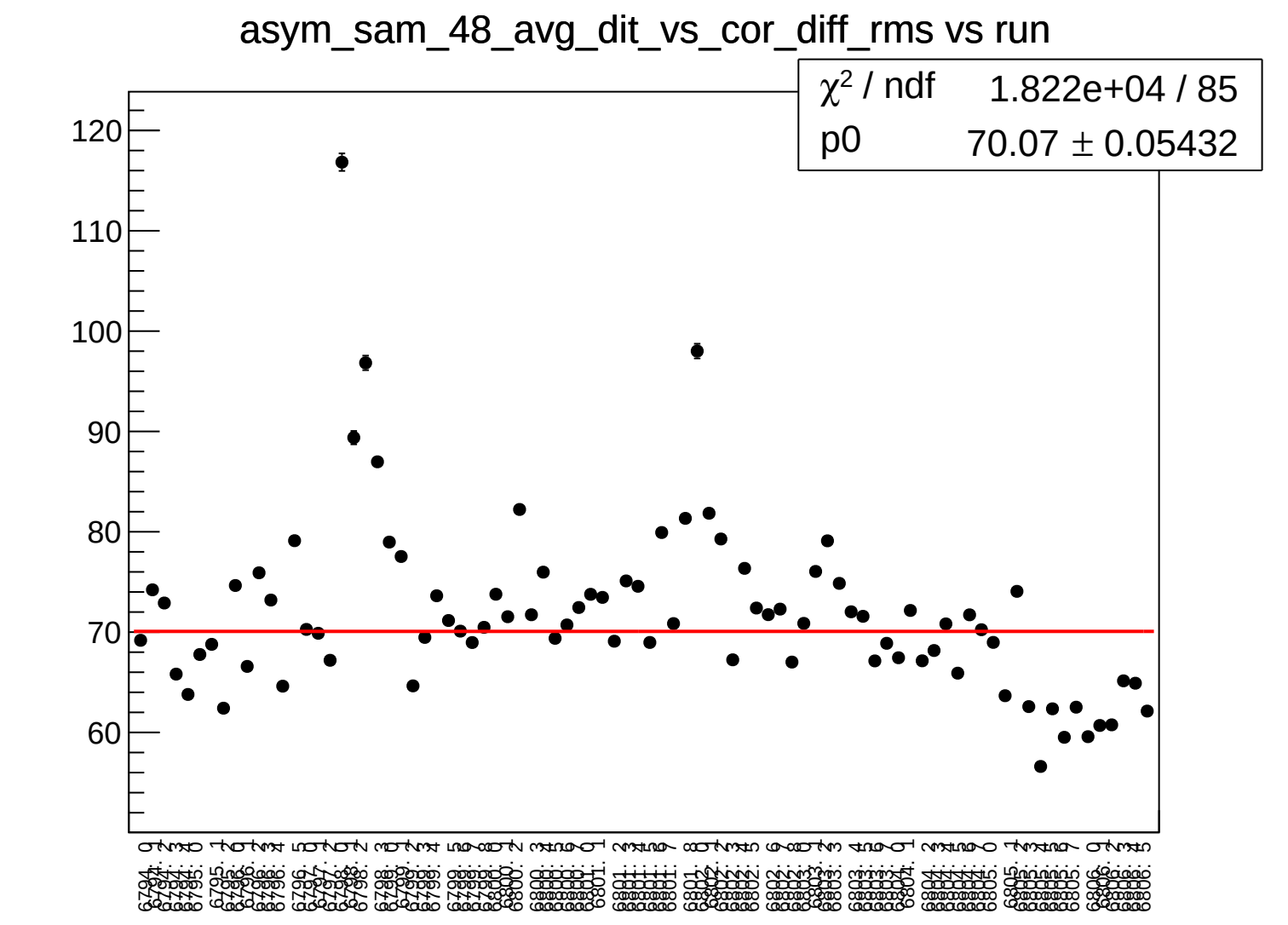

asym_sam_48_avg_rms vs run
χ² / ndf 1.17e+04 / 85
p0 1243 ± 0.9619
1500
1400
1300
1200
1100
1000

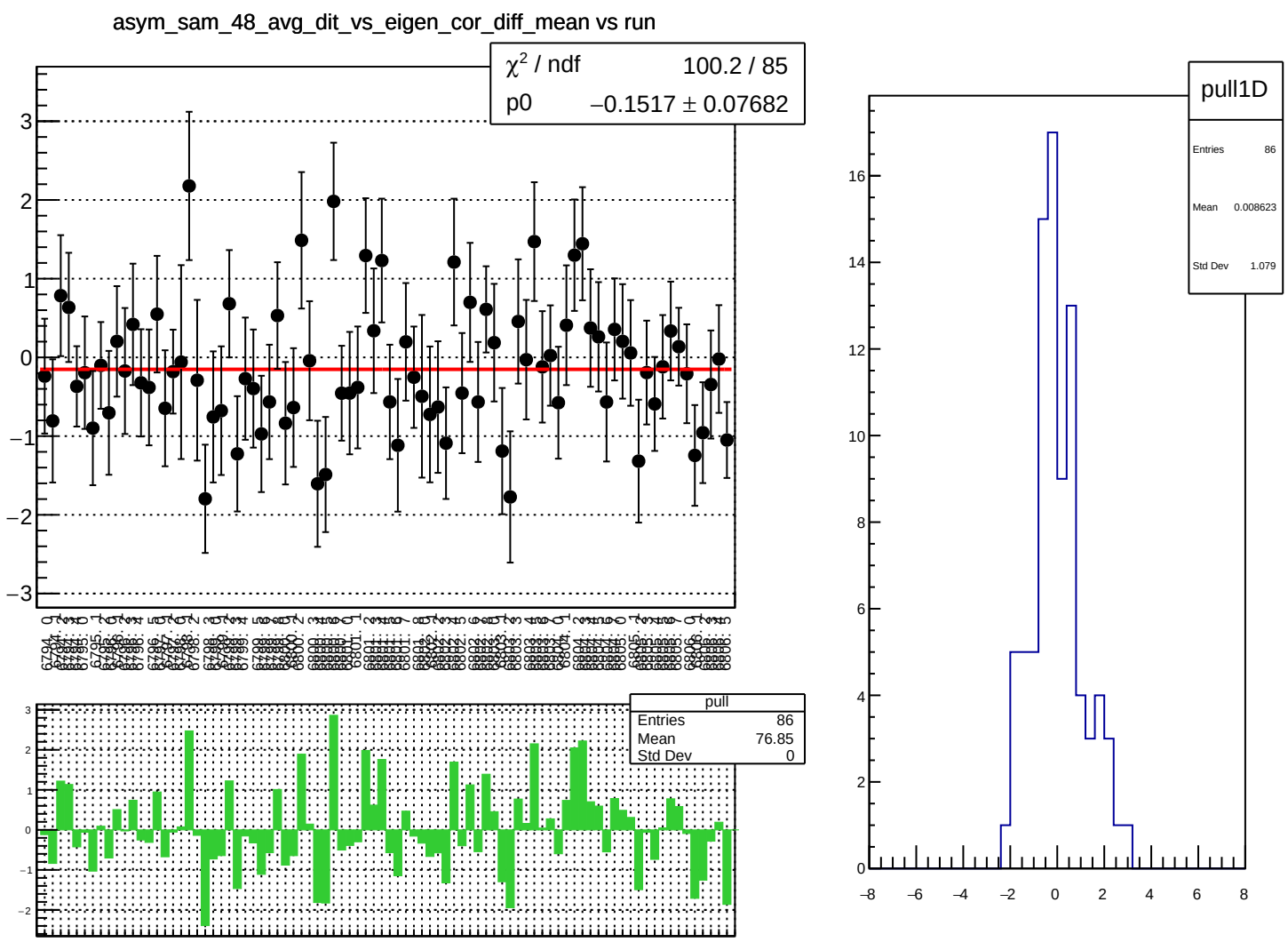

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.27 / 85
p0 −3.938e−14 ± 5.59e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 33.44
Std Dev 21.6
2
1
0
−1
−2

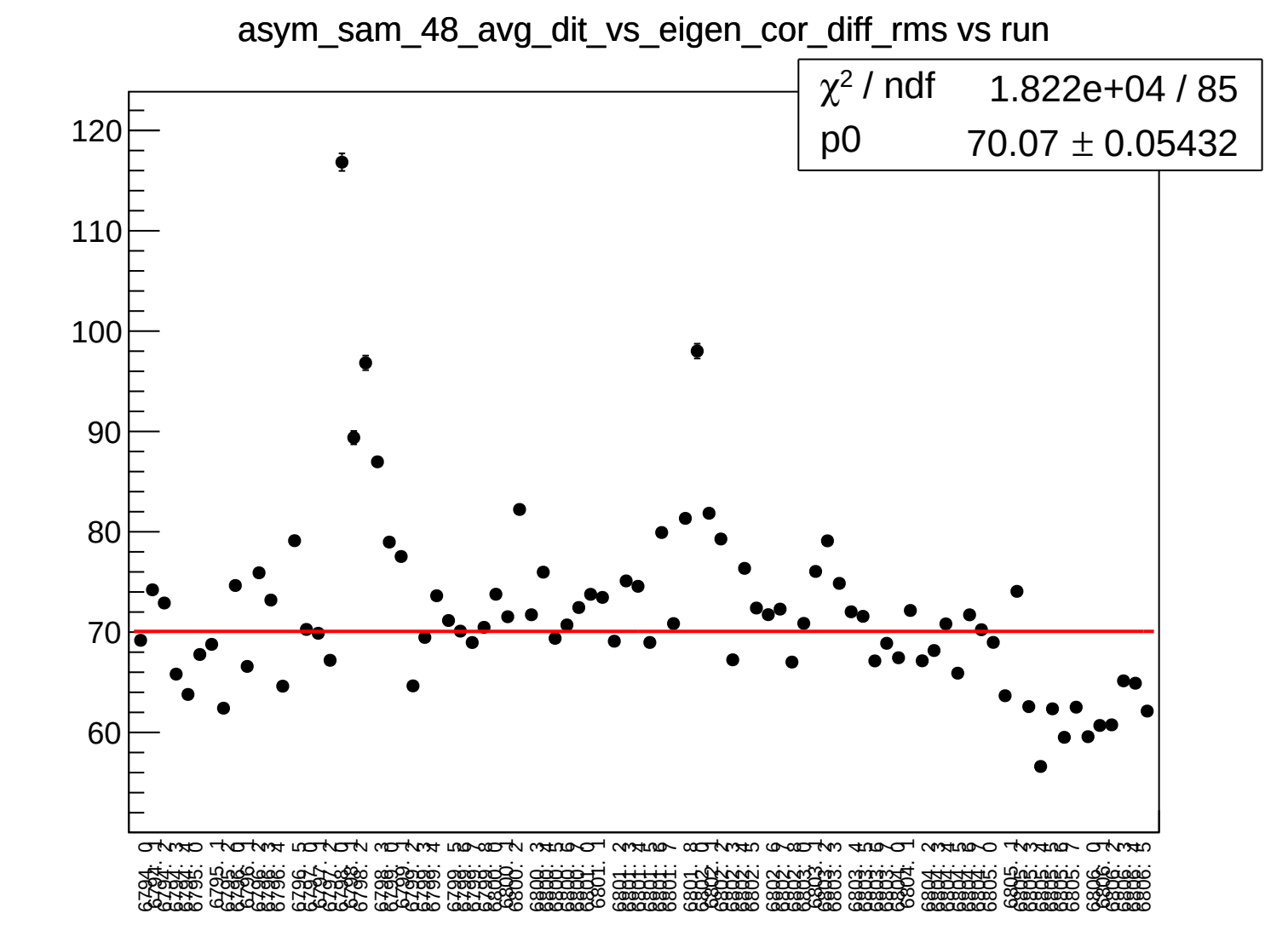

pull1D
Entries 86
Mean −0.07443
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

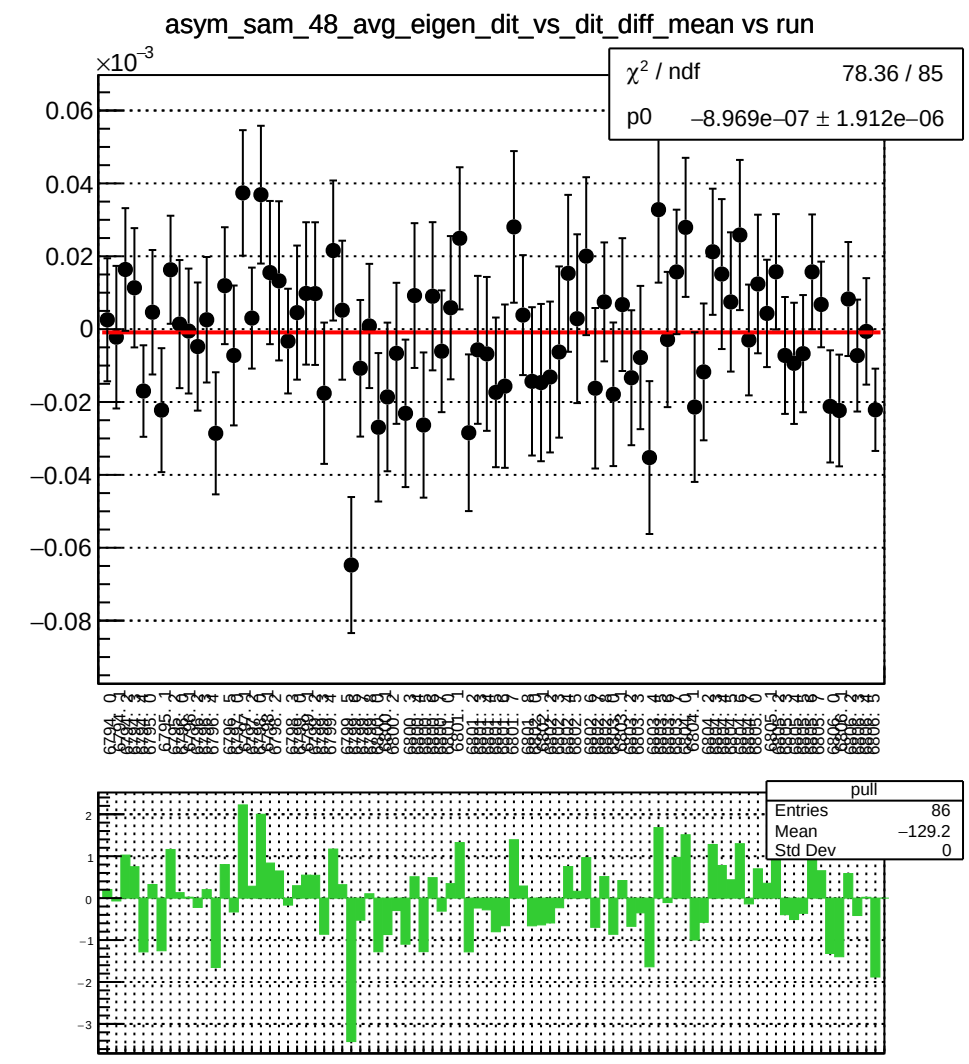

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 85
p0 3.122e−11 ± 3.953e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

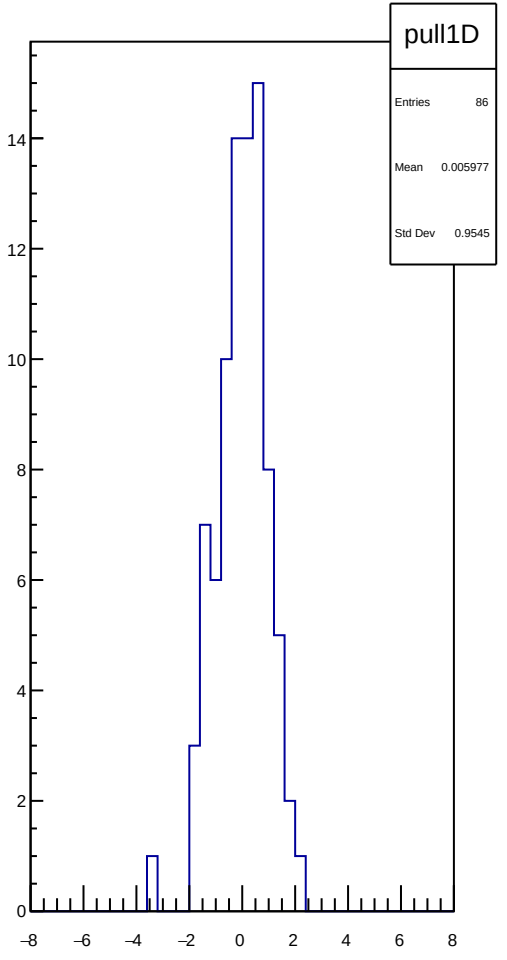

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 85
p0 −0.1517 ± 0.07682
pull
Entries 86
Mean 76.85
Std Dev 0
pull1D
Entries 86
Mean 0.008623
Std Dev 1.079

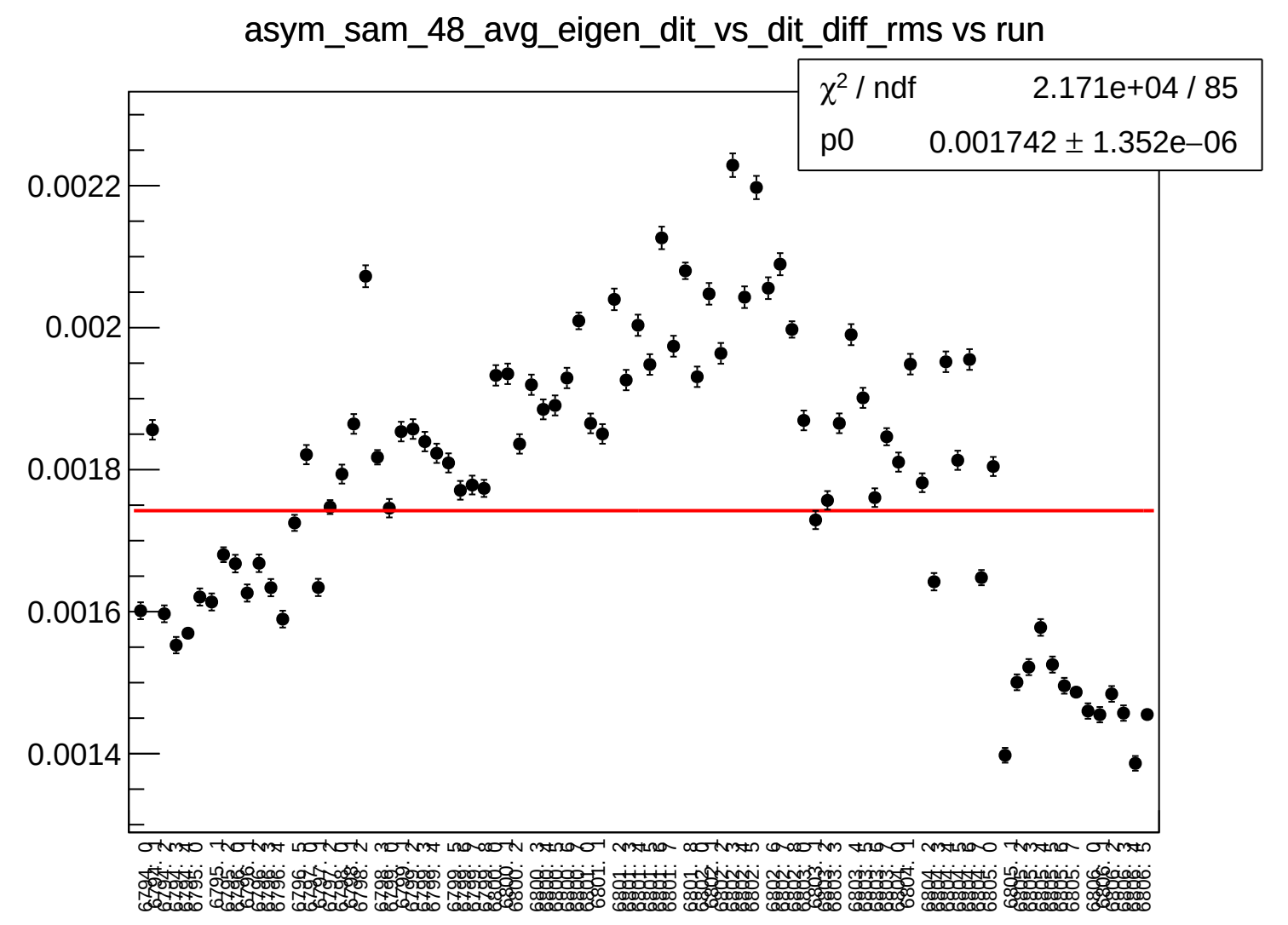

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.822e+04 / 85
p0 70.07 ± 0.05432
120
110
100
90
80
70
60

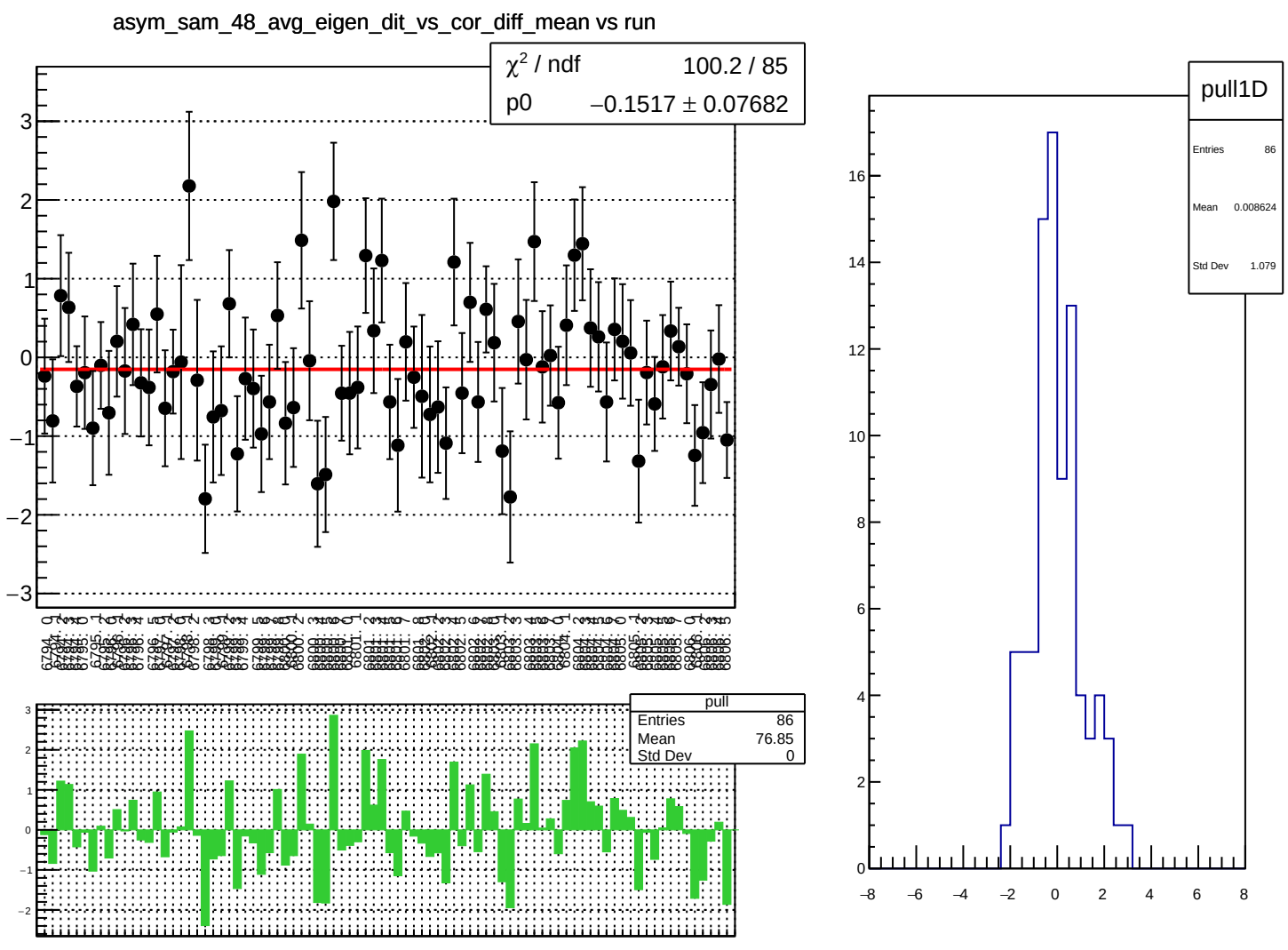

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 85
p0 −0.1517 ± 0.07682
pull
Entries 86
Mean 76.85
Std Dev 0
pull1D
Entries 86
Mean 0.008623
Std Dev 1.079

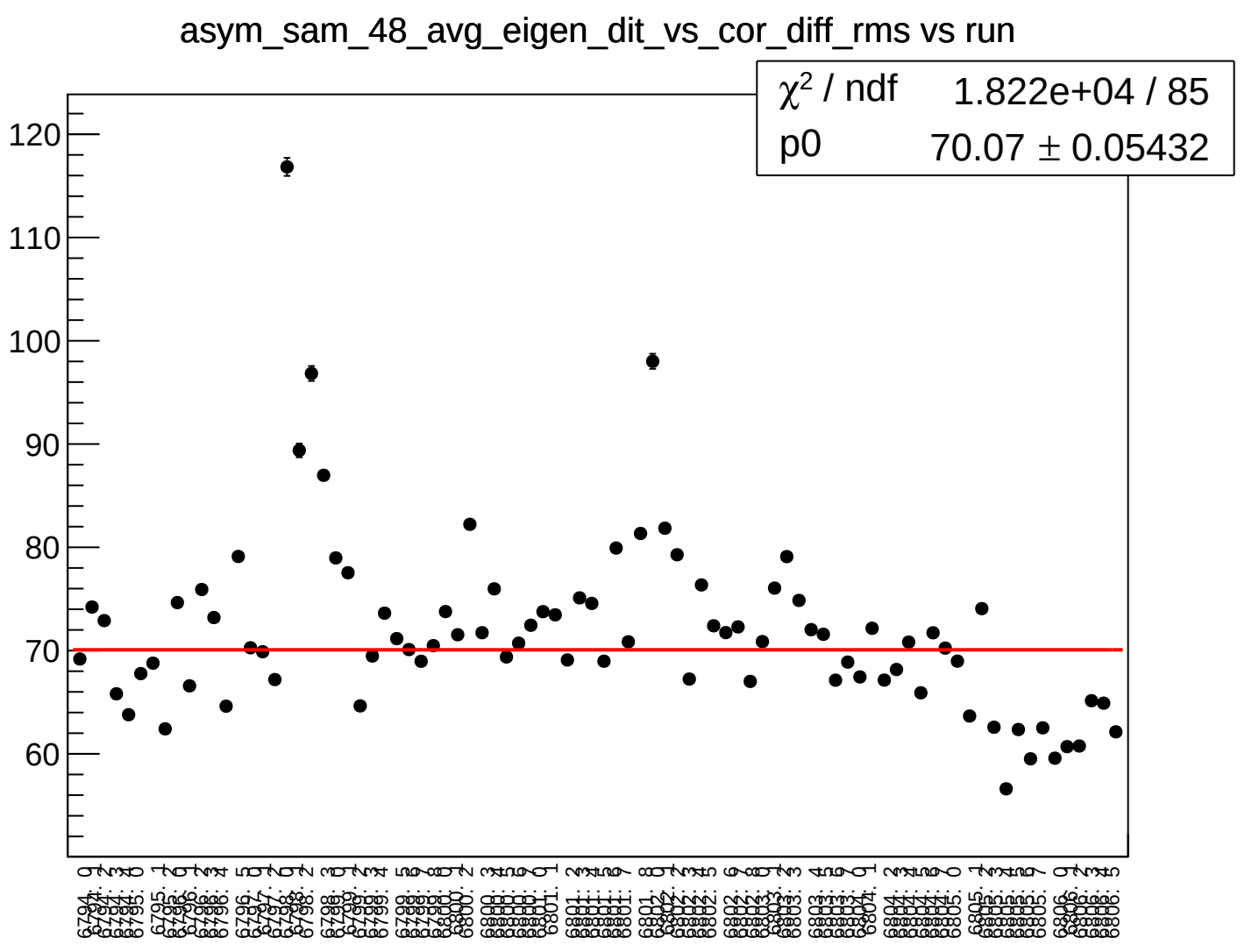

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.822e+04 / 85
p0 70.07 ± 0.05432
120
110
100
90
80
70
60

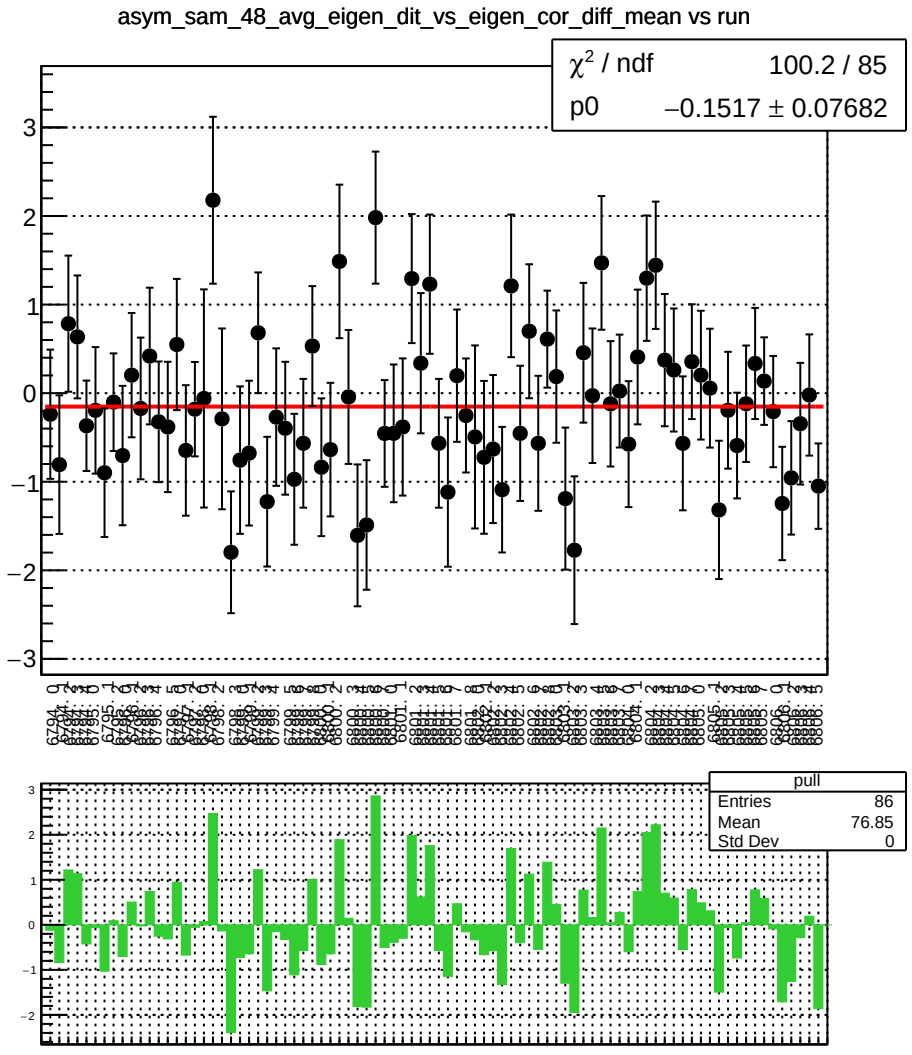

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.36 / 85
p0 −8.969e−07 ± 1.912e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −129.2
Std Dev 0
2
1
0
−1
−2
−3

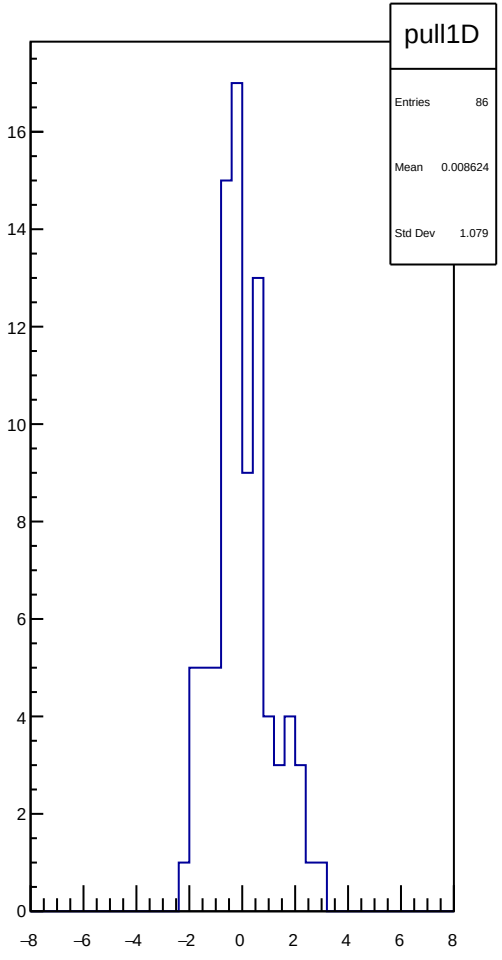

pull1D
Entries 86
Mean 0.005977
Std Dev 0.9545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

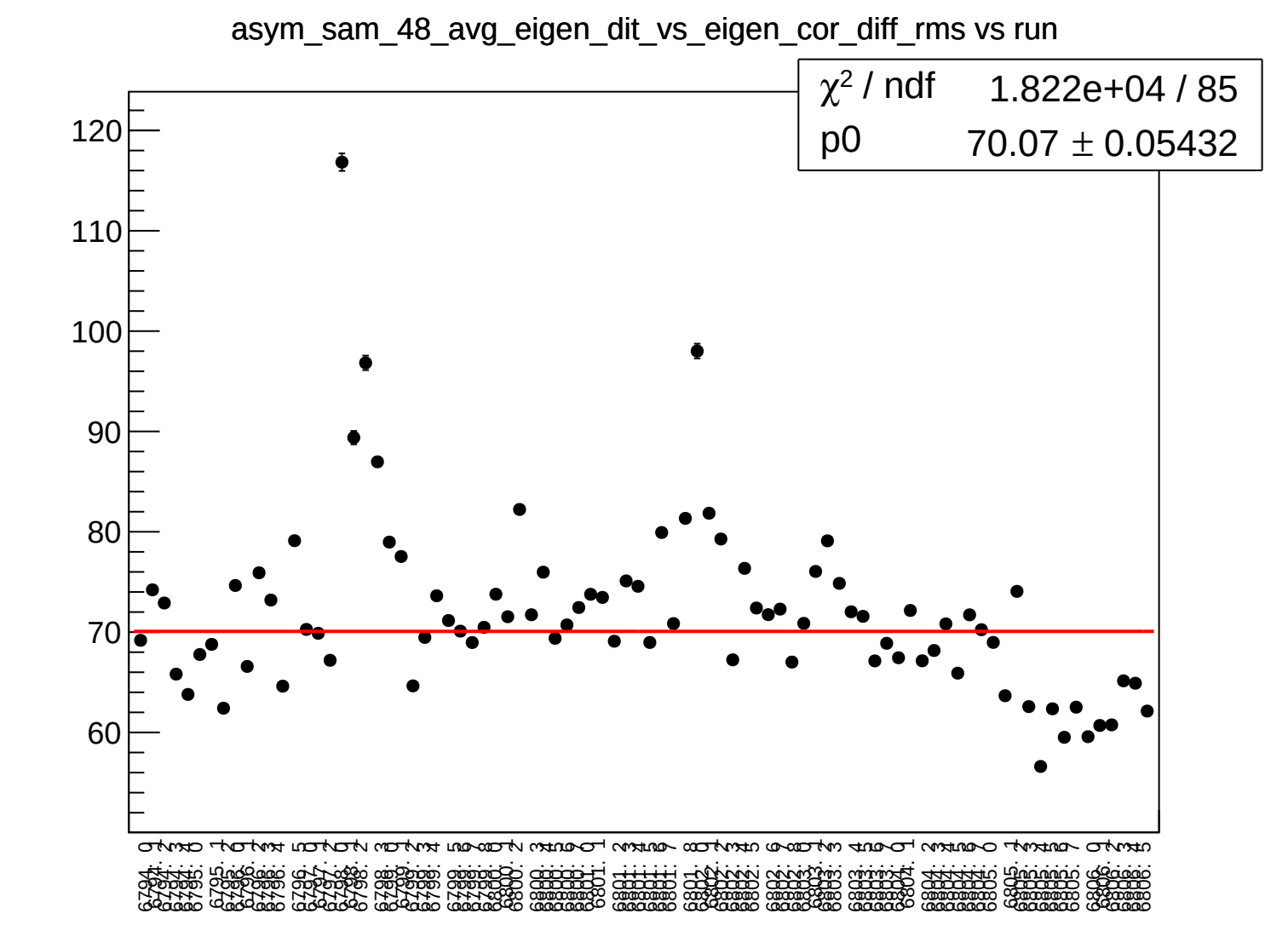

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.171e+04 / 85
p0 0.001742 ± 1.352e−06
0.0022
0.002
0.0018
0.0016
0.0014

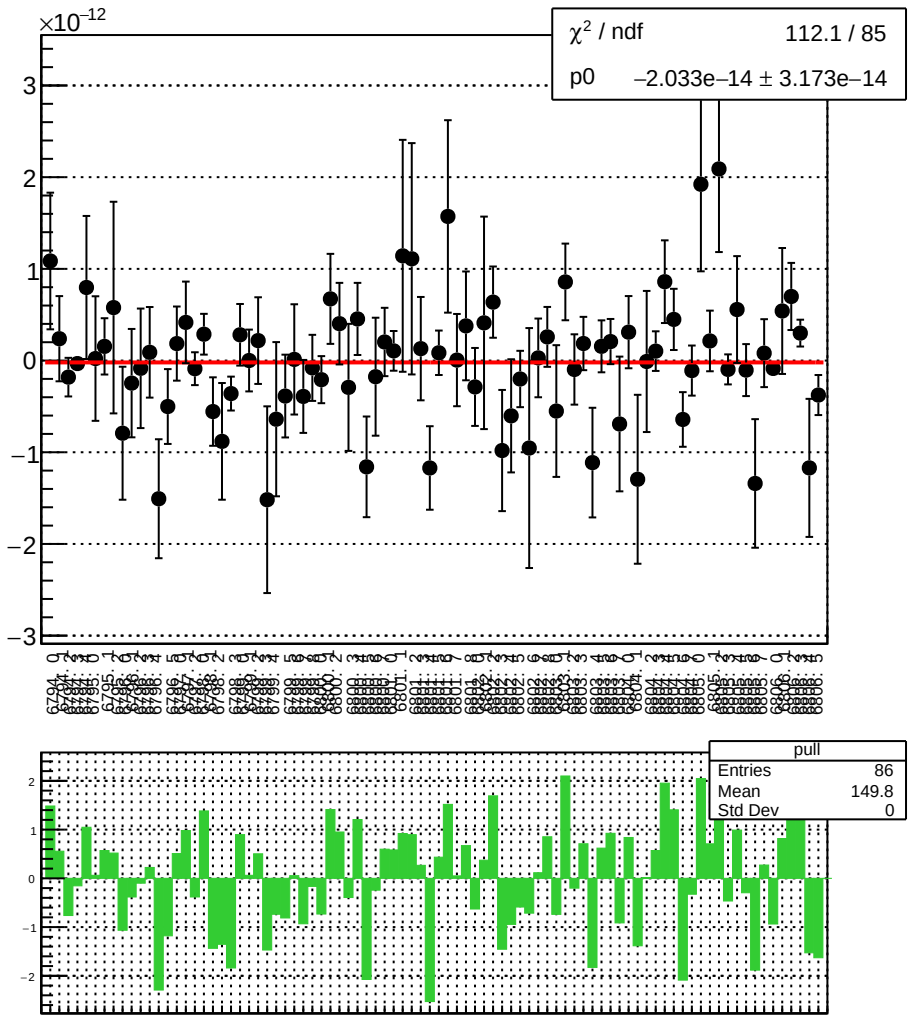

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 85
p0 −0.1517 ± 0.07682
pull
Entries 86
Mean 76.85
Std Dev 0
pull1D
Entries 86
Mean 0.008624
Std Dev 1.079

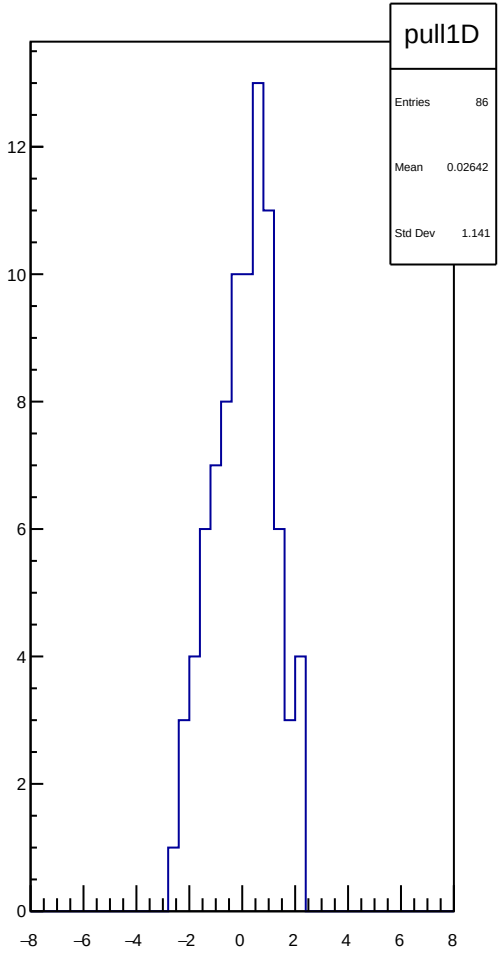

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.822e+04 / 85
p0 70.07 ± 0.05432
120
110
100
90
80
70
60

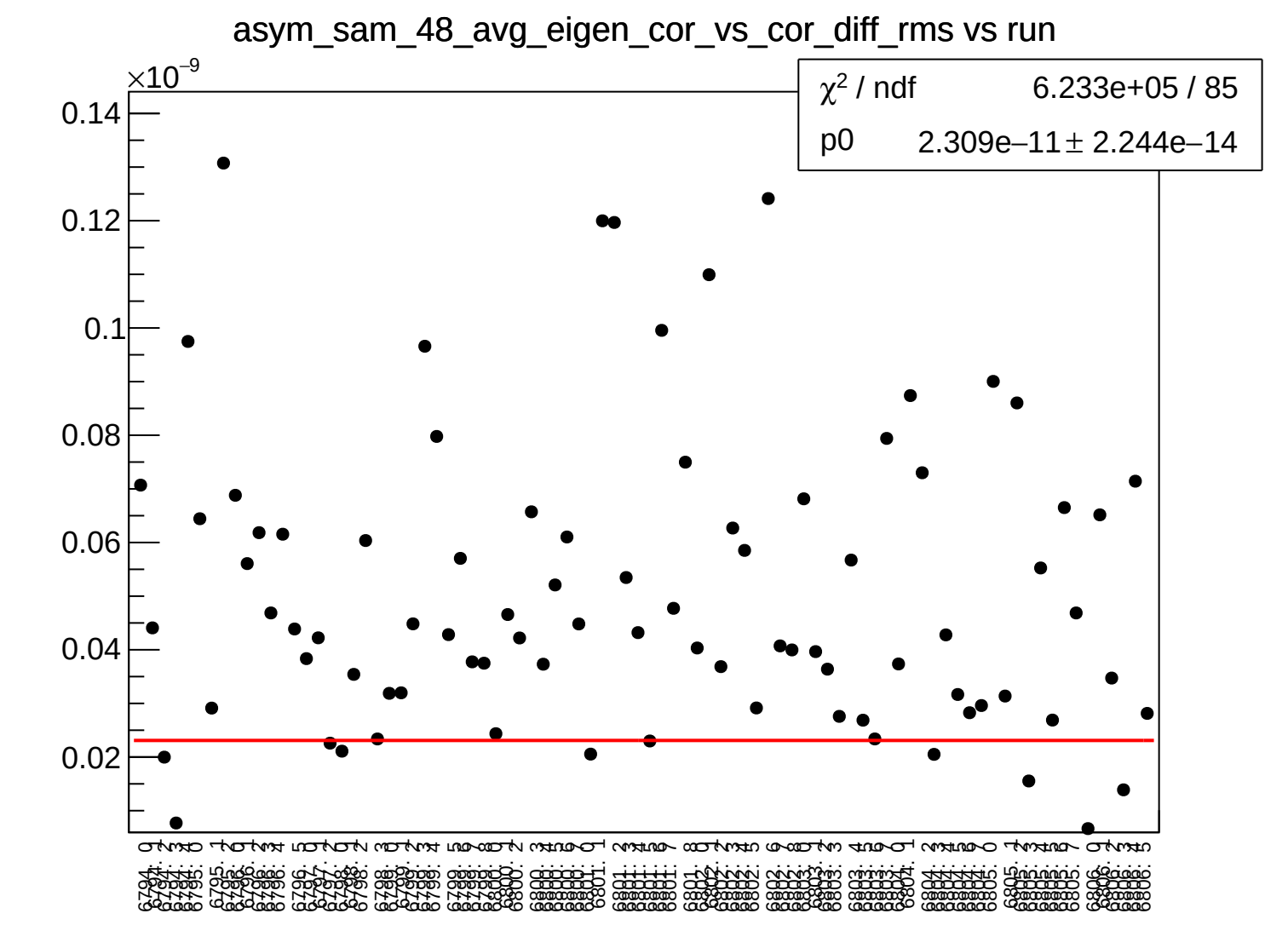

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 85
p0 −0.1517 ± 0.07682
pull
Entries 86
Mean 76.85
Std Dev 0

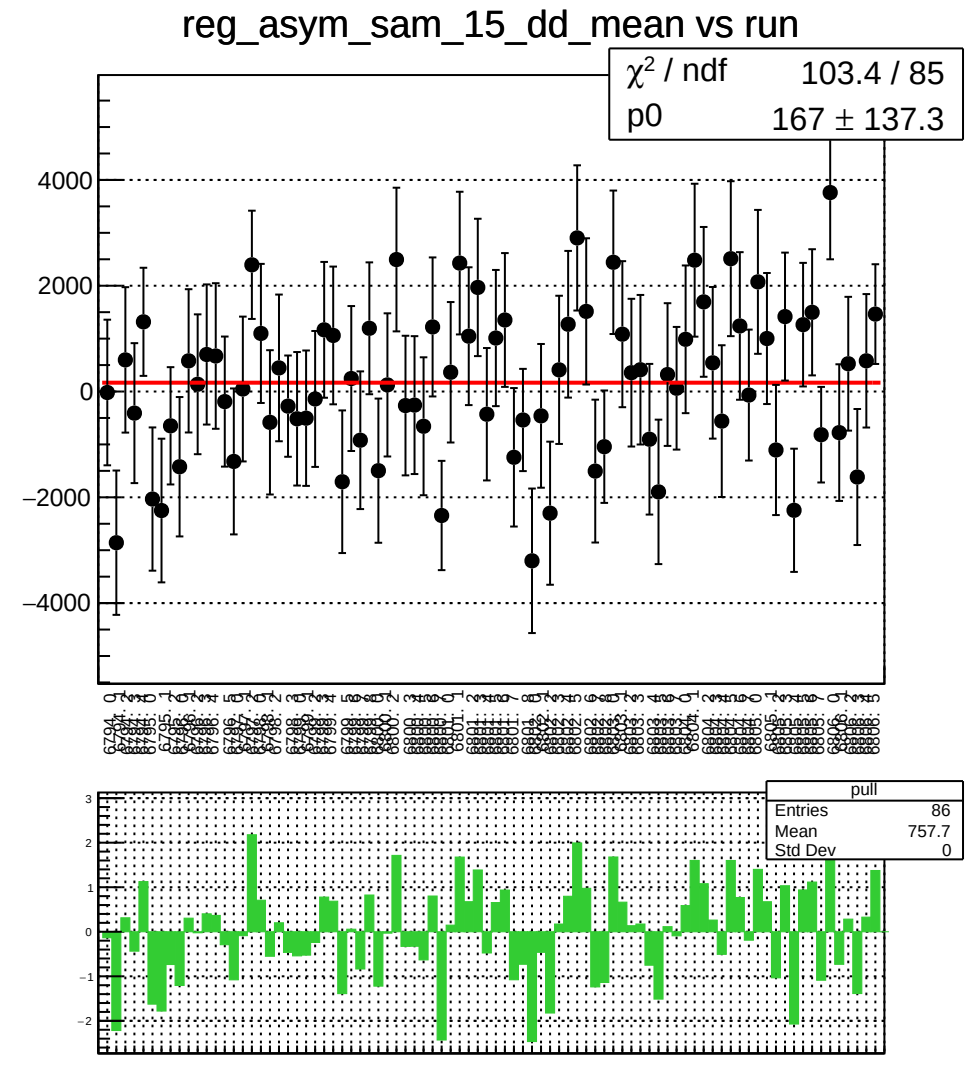

pull1D
Entries 86
Mean 0.008624
Std Dev 1.079

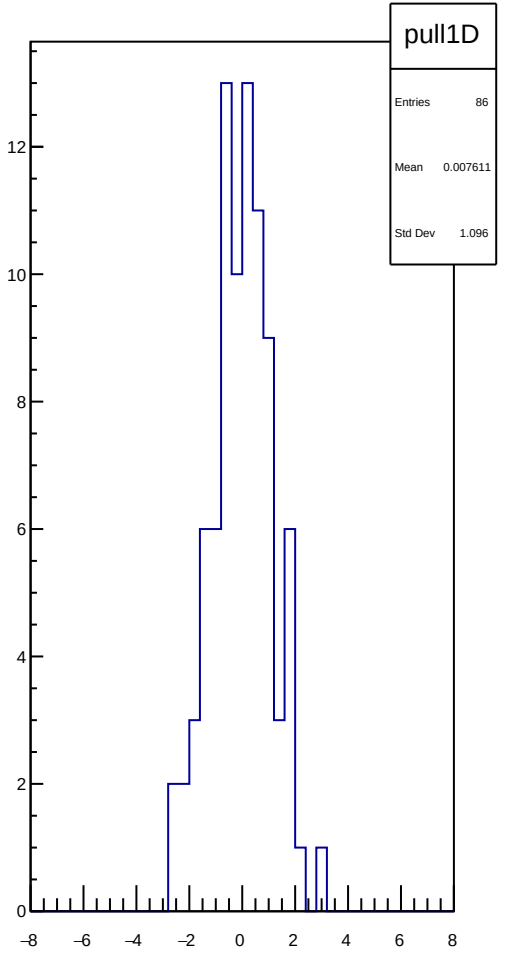

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.822e+04 / 85
p0 70.07 ± 0.05432
120
110
100
90
80
70
60

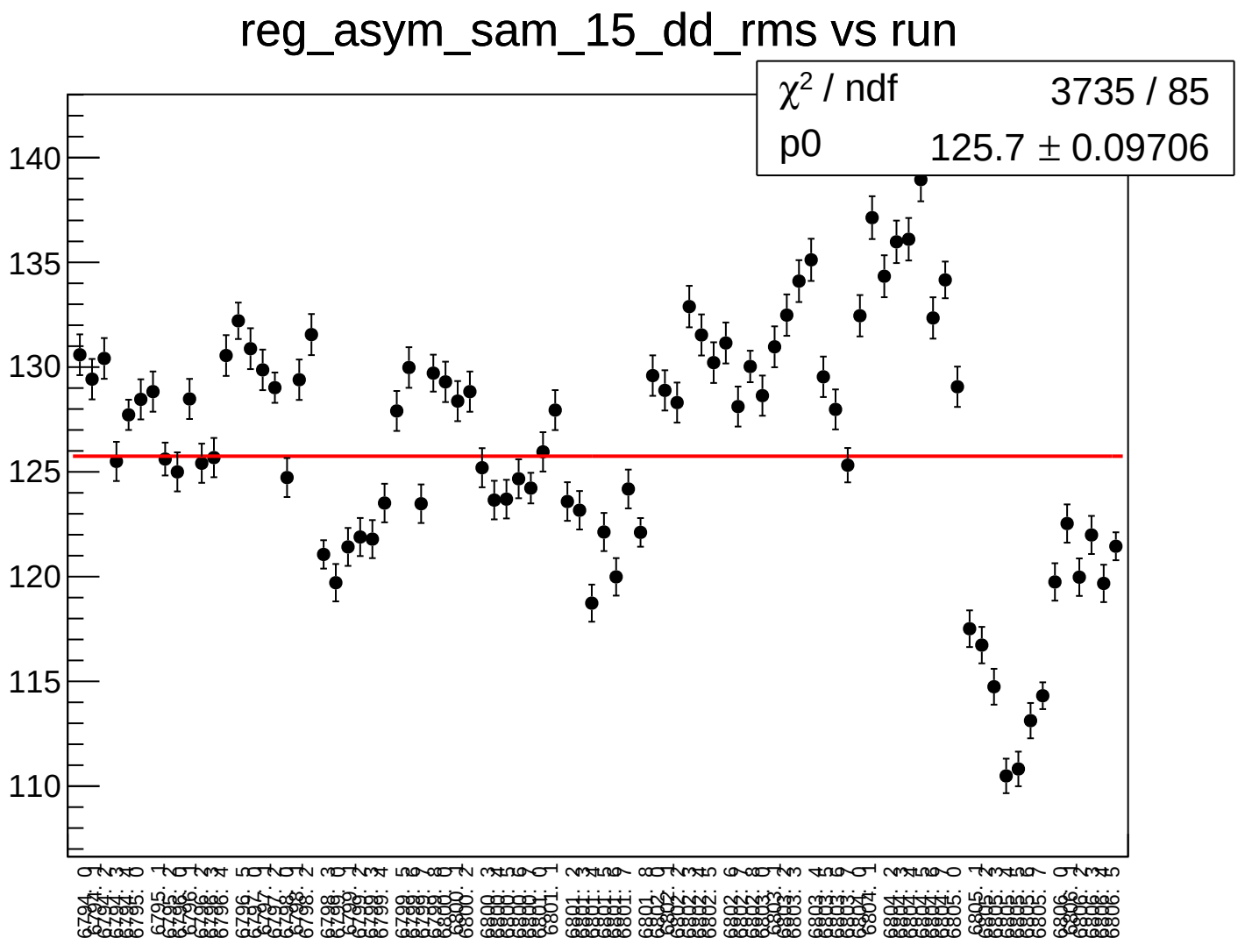

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.1 / 85
p0 −2.033e−14 ± 3.173e−14
pull
Entries 86
Mean 149.8
Std Dev 0

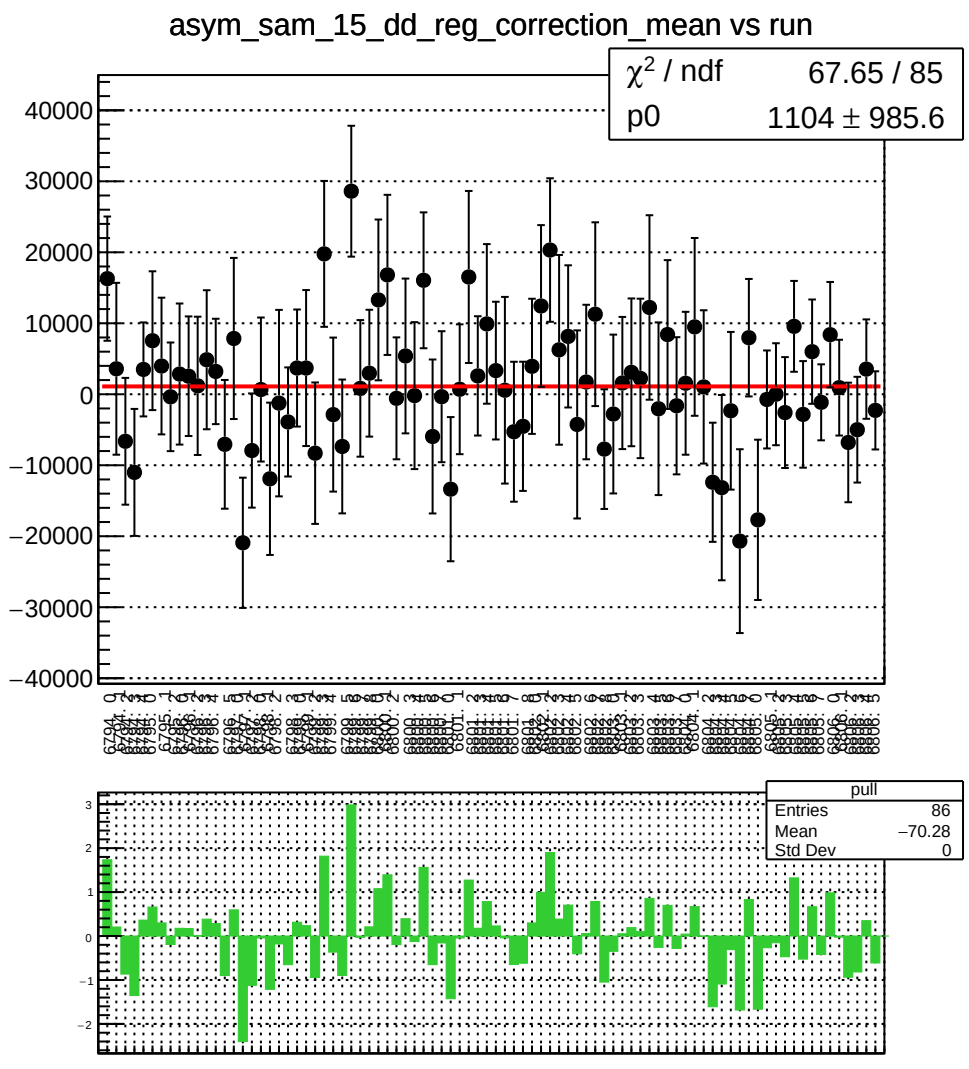

pull1D
Entries 86
Mean 0.02642
Std Dev 1.141

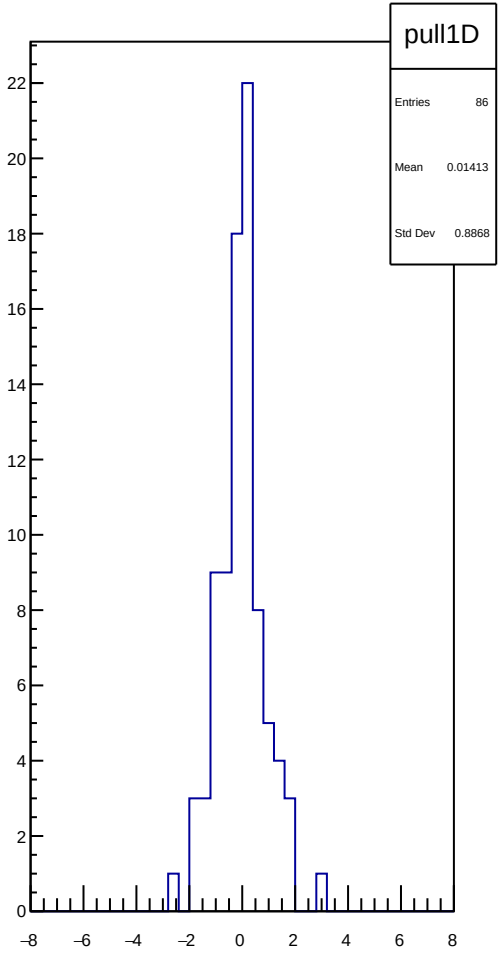

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.233e+05 / 85
p0 2.309e−11 ± 2.244e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

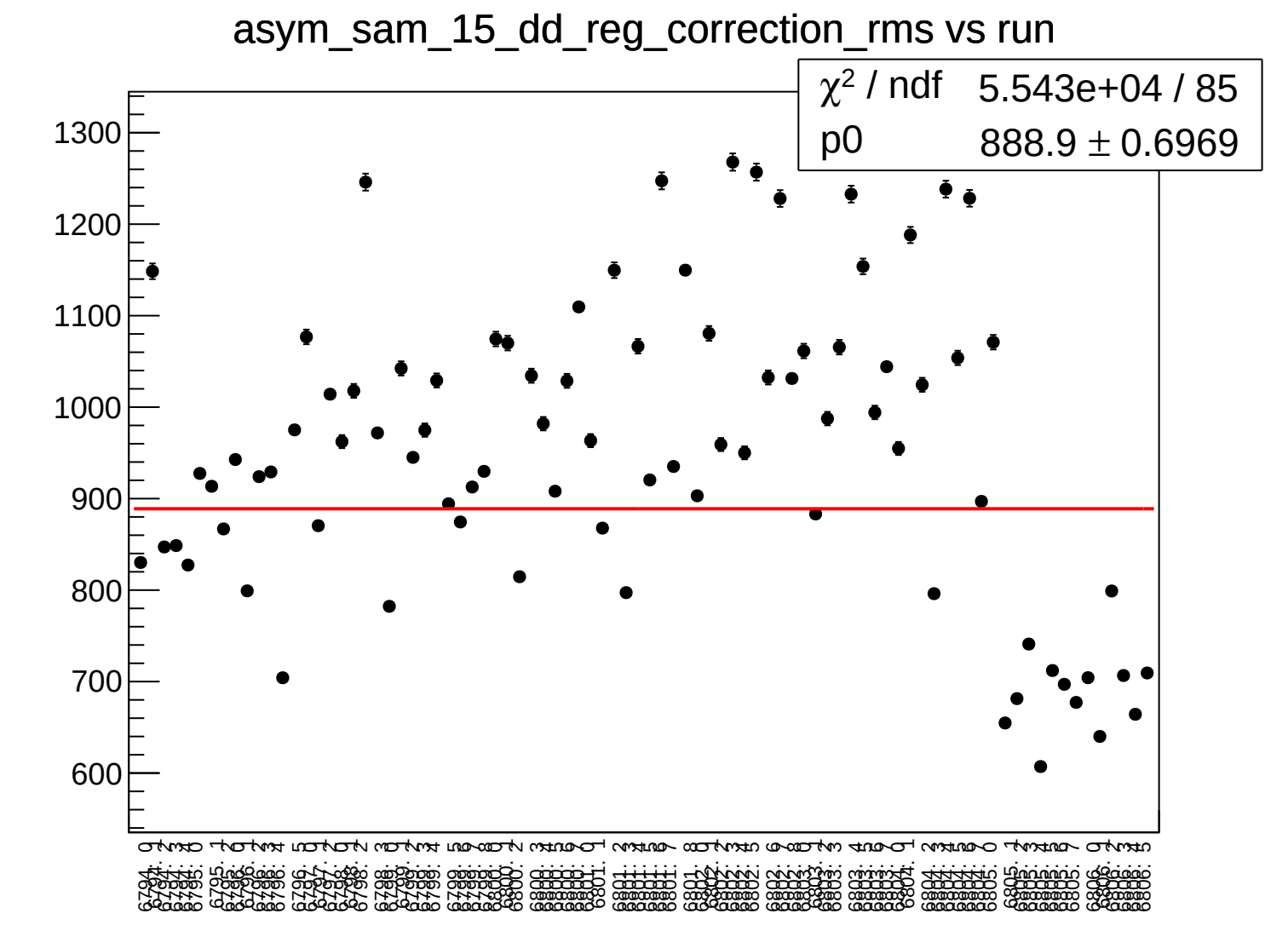

reg_asym_sam_15_dd_mean vs run
χ² / ndf 103.4 / 85
p0 167 ± 137.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 757.7
Std Dev 0
3
2
1
0
−1
−2

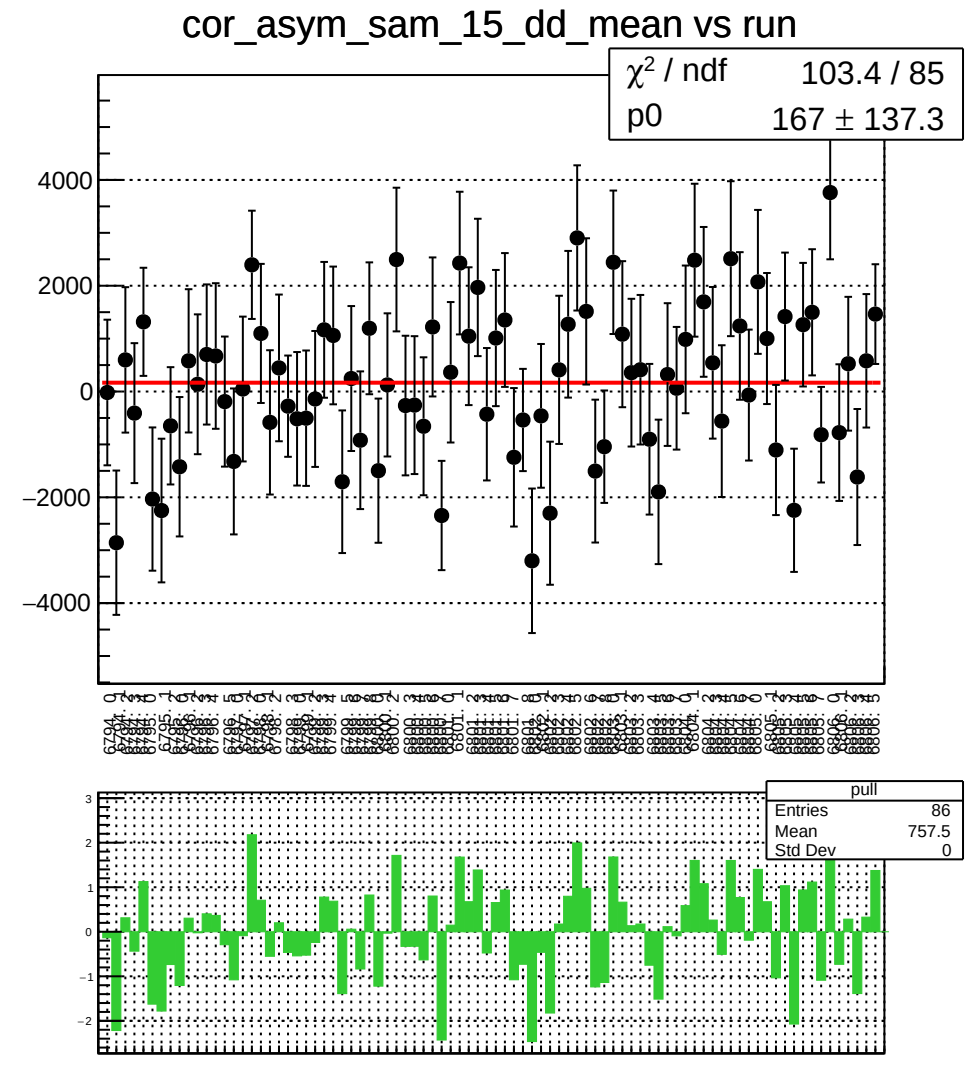

pull1D
Entries 86
Mean 0.007611
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

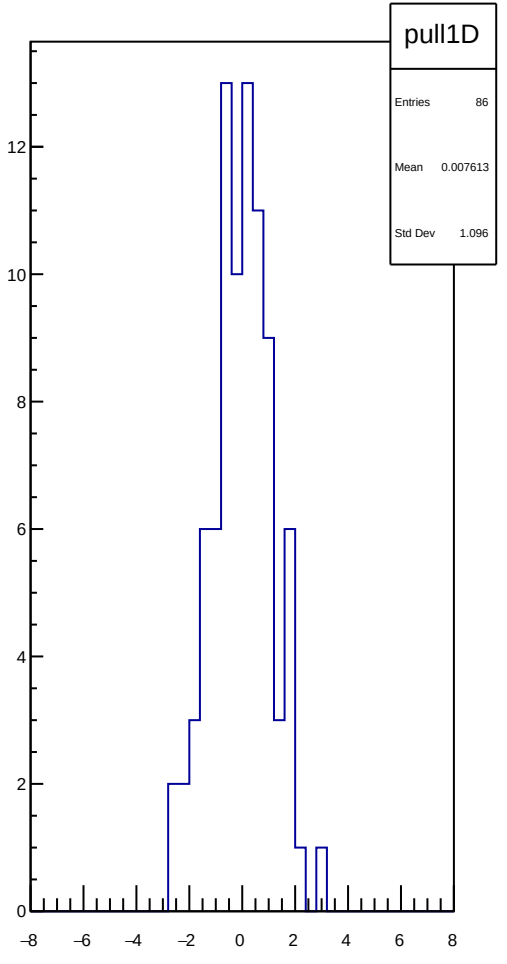

reg_asym_sam_15_dd_rms vs run
χ² / ndf 3735 / 85
p0 125.7 ± 0.09706
140
135
130
125
120
115
110

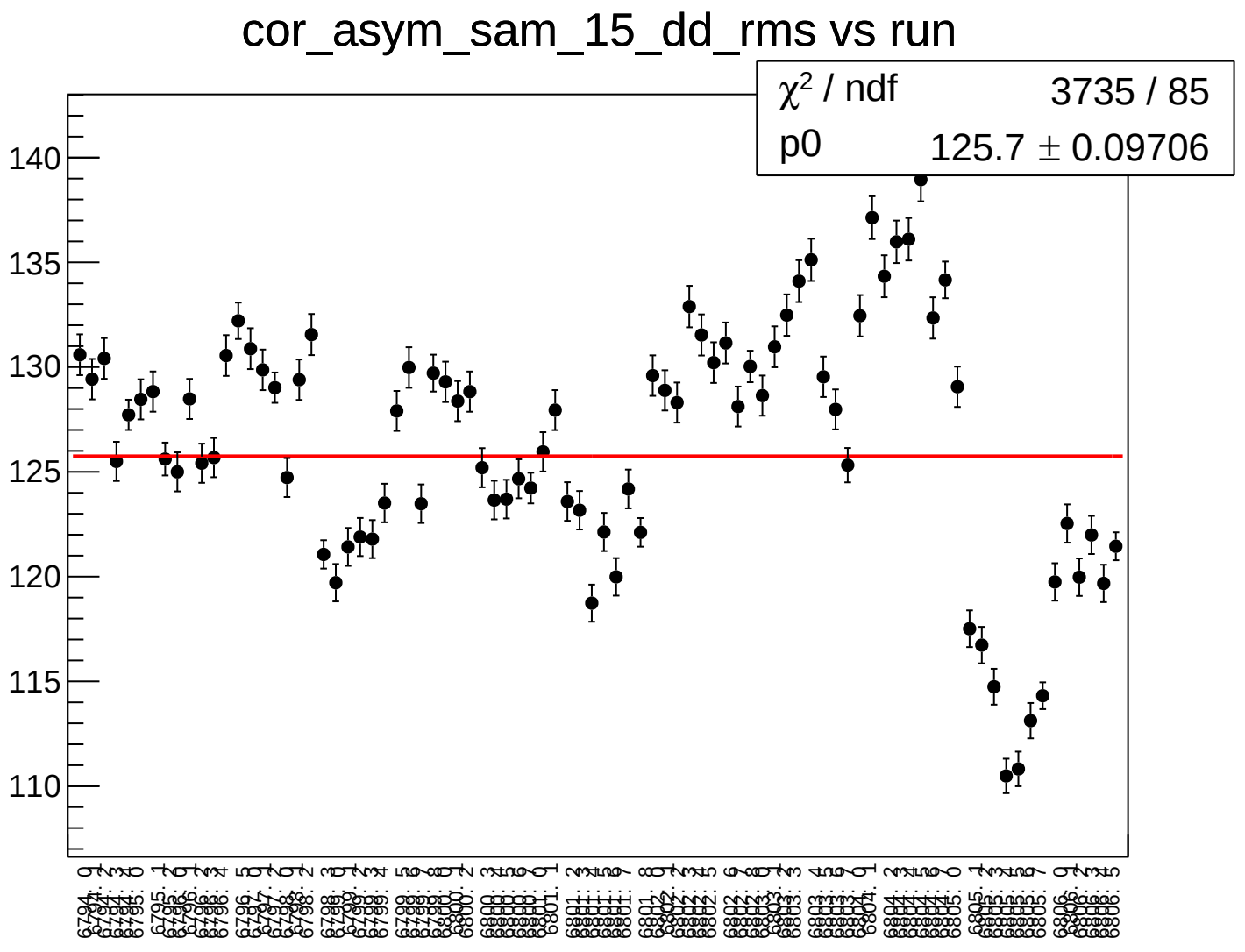

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 67.65 / 85
p0 1104 ± 985.6
pull
Entries 86
Mean −70.28
Std Dev 0

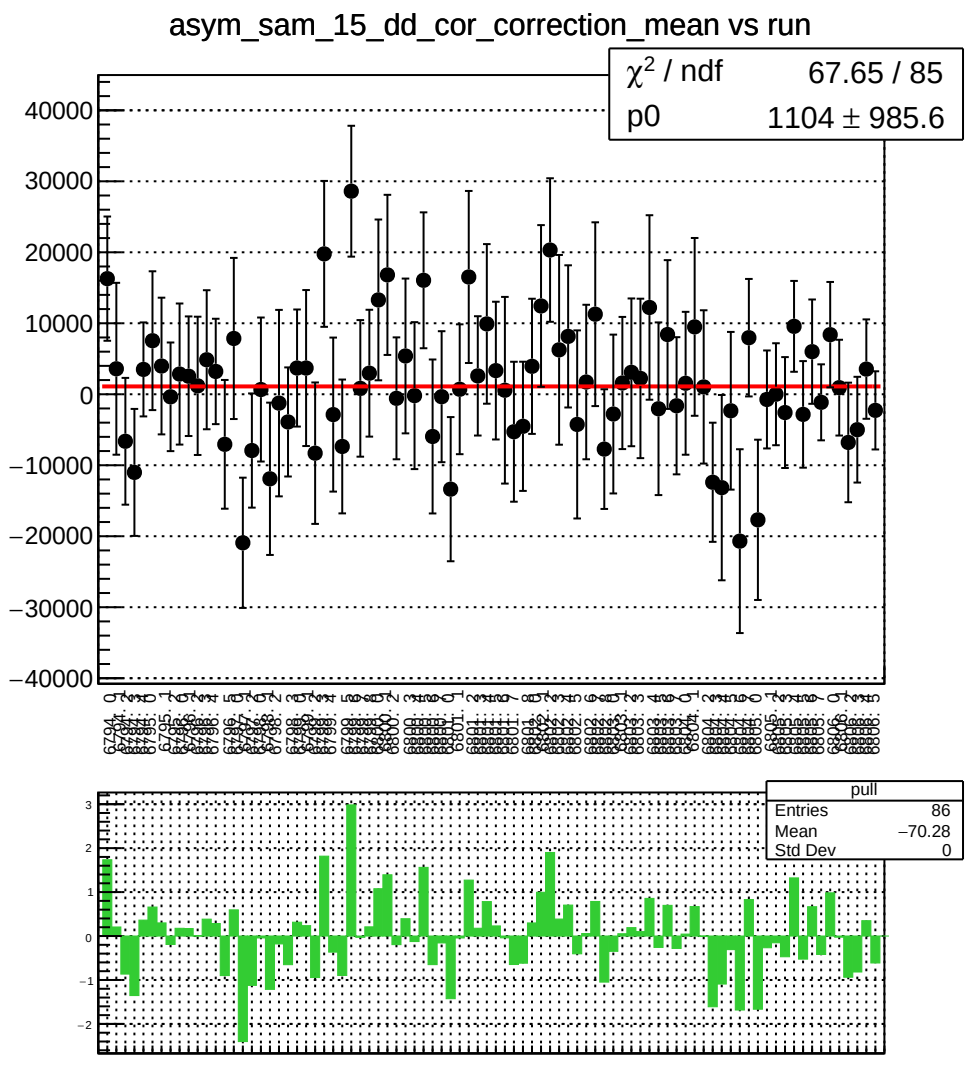

pull1D
Entries 86
Mean 0.01413
Std Dev 0.8868

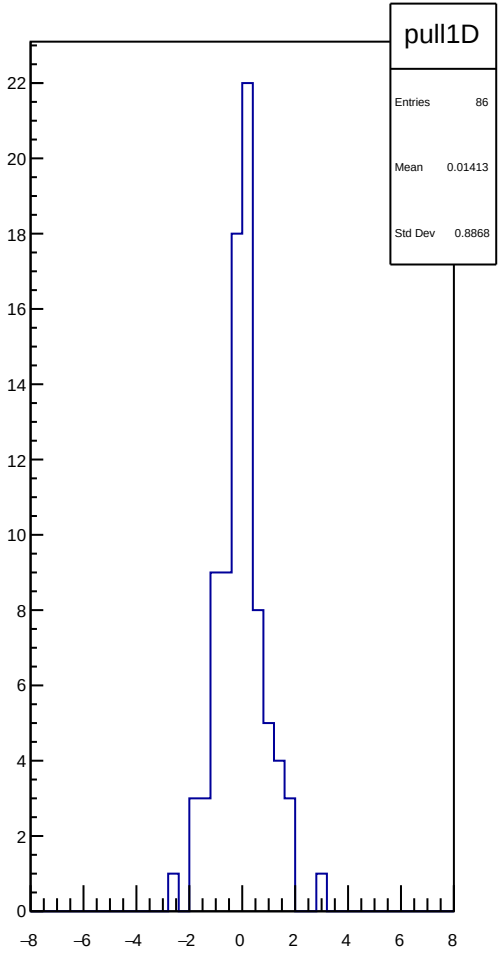

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 5.543e+04 / 85
p0 888.9 ± 0.6969
1300
1200
1100
1000
900
800
700
600

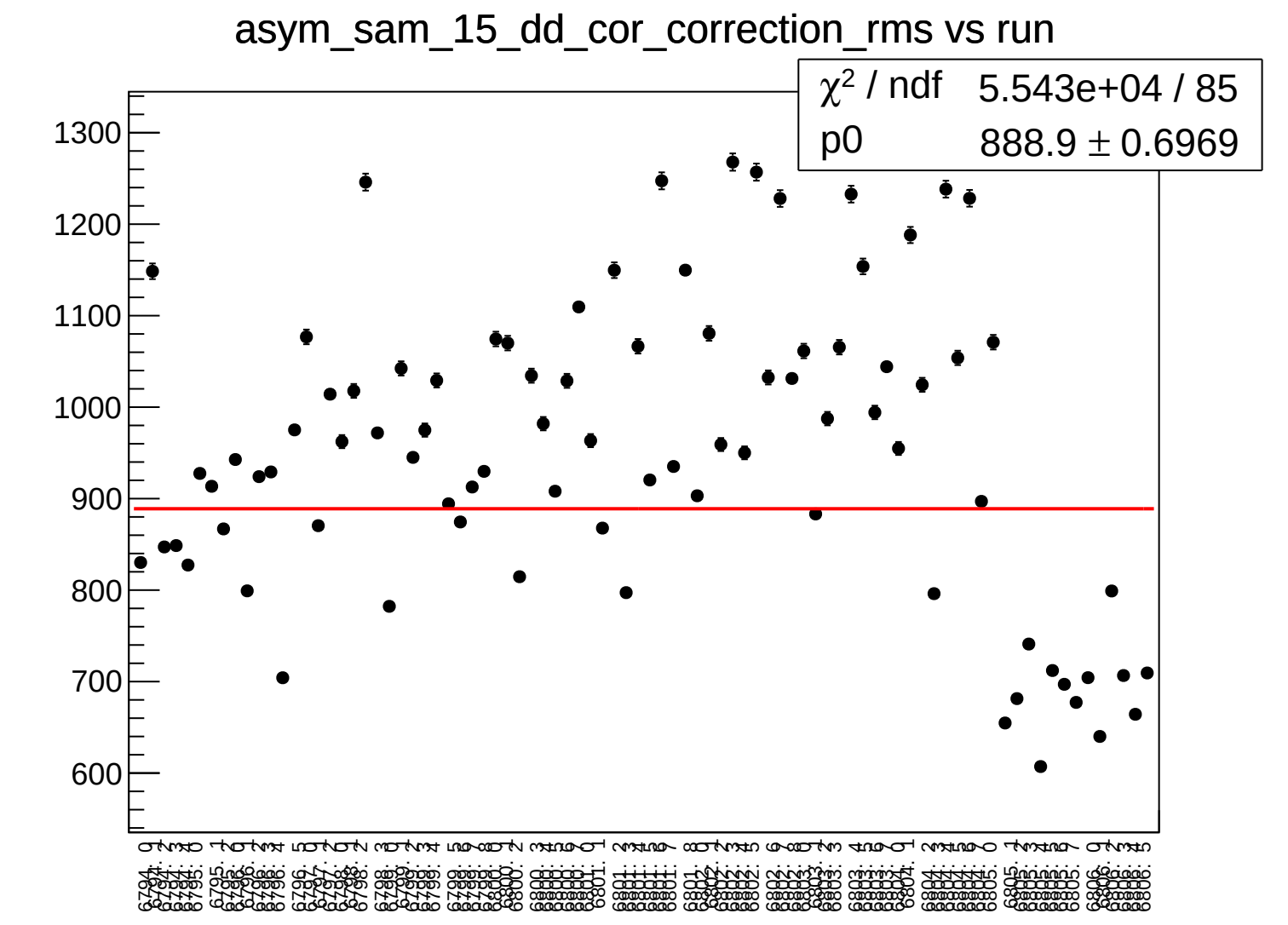

cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.4 / 85
p0 167 ± 137.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 757.5
Std Dev 0
3
2
1
0
−1
−2

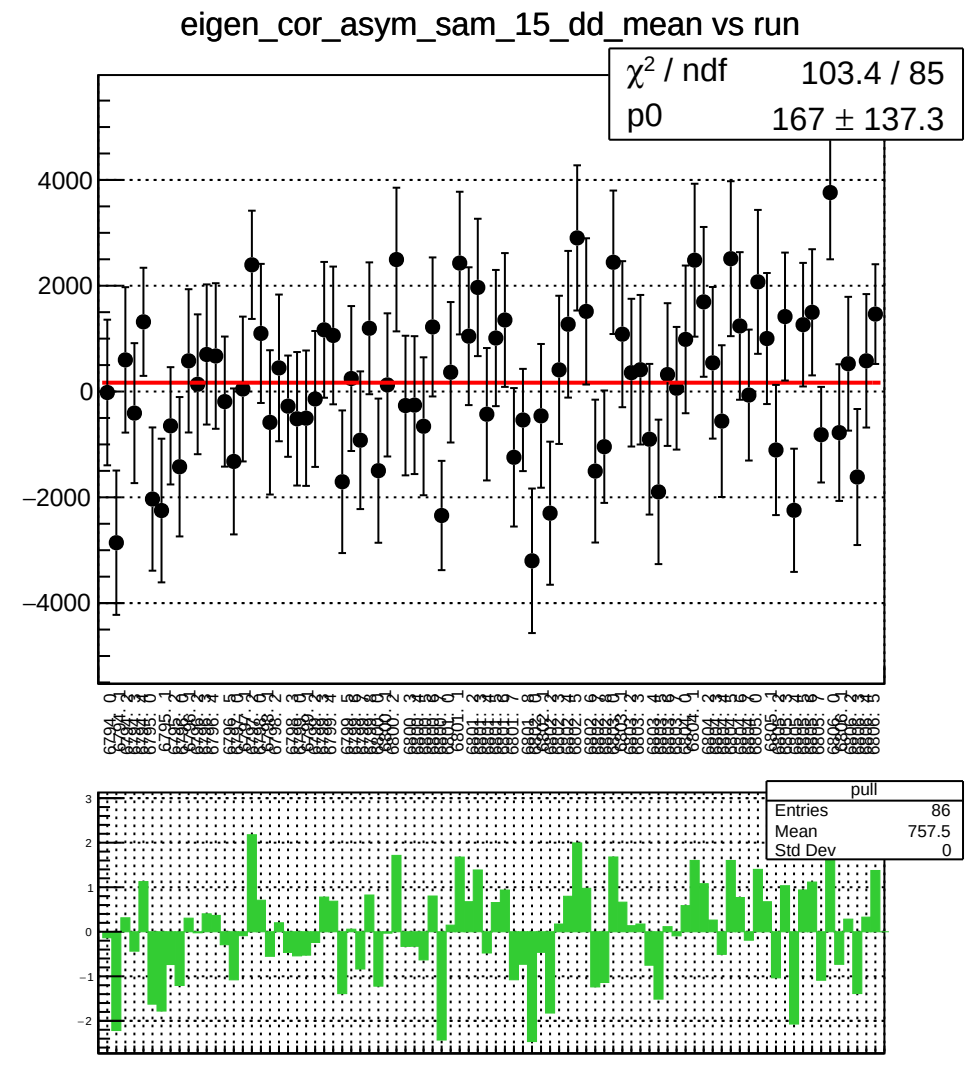

pull1D
Entries 86
Mean 0.007613
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

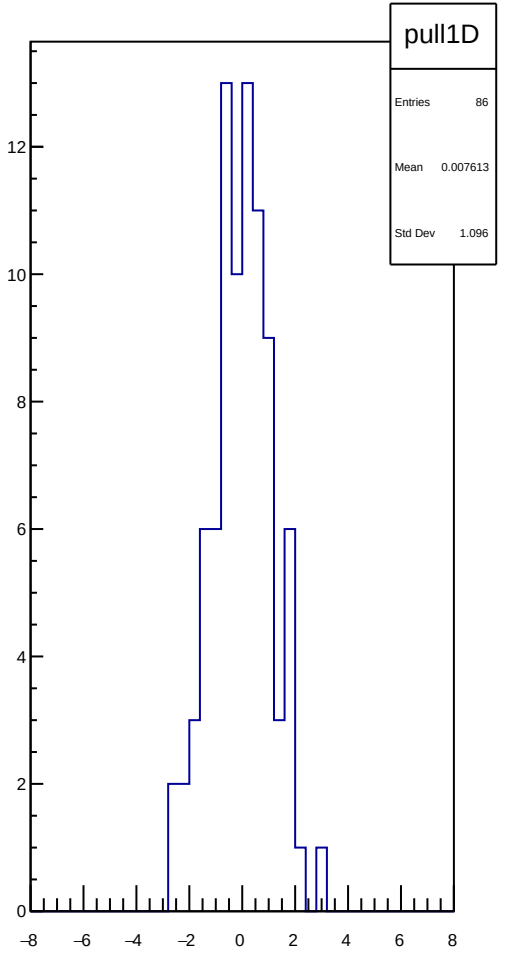

cor_asym_sam_15_dd_rms vs run
χ² / ndf 3735 / 85
p0 125.7 ± 0.09706
140
135
130
125
120
115
110

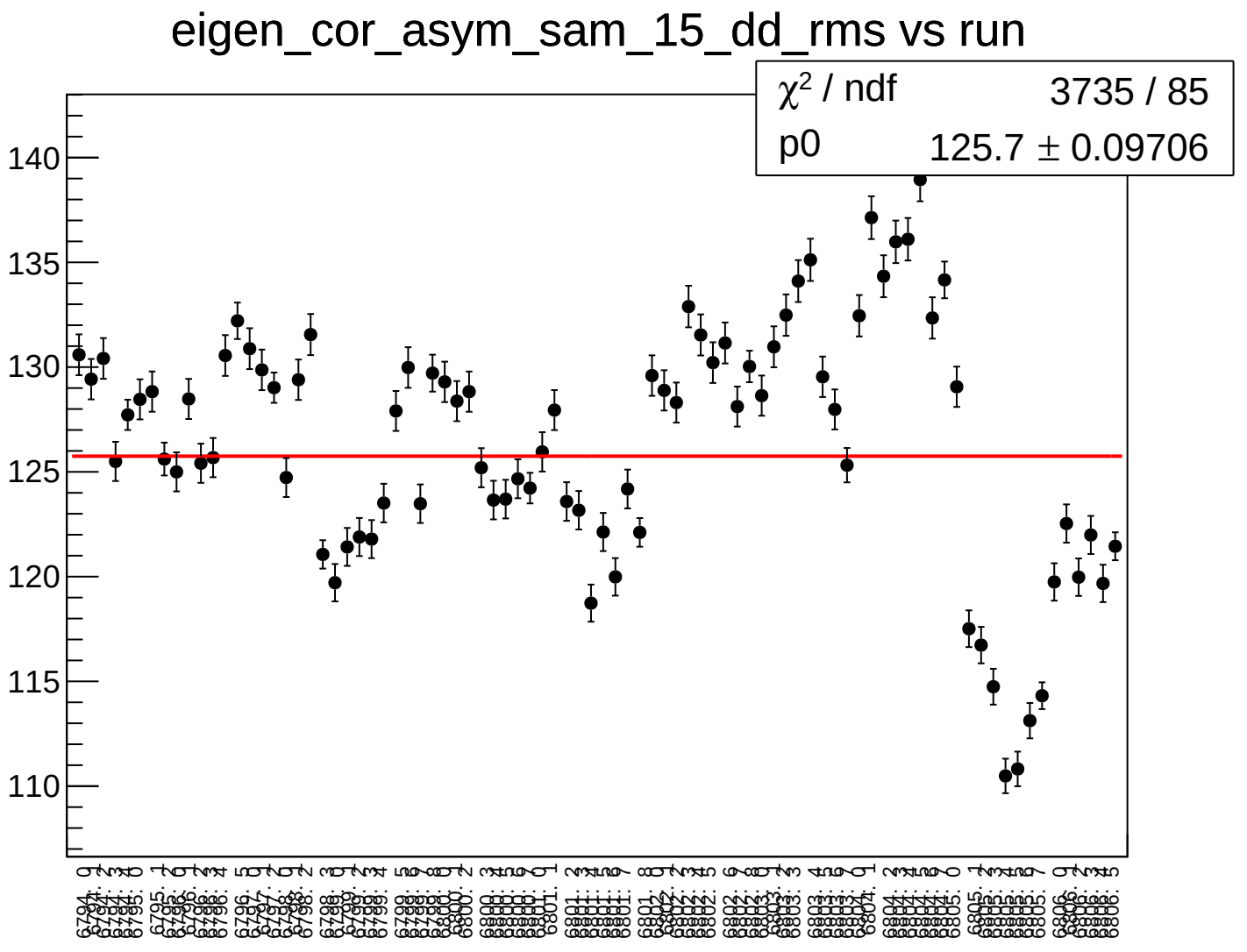

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 67.65 / 85
p0 1104 ± 985.6
pull
Entries 86
Mean −70.28
Std Dev 0

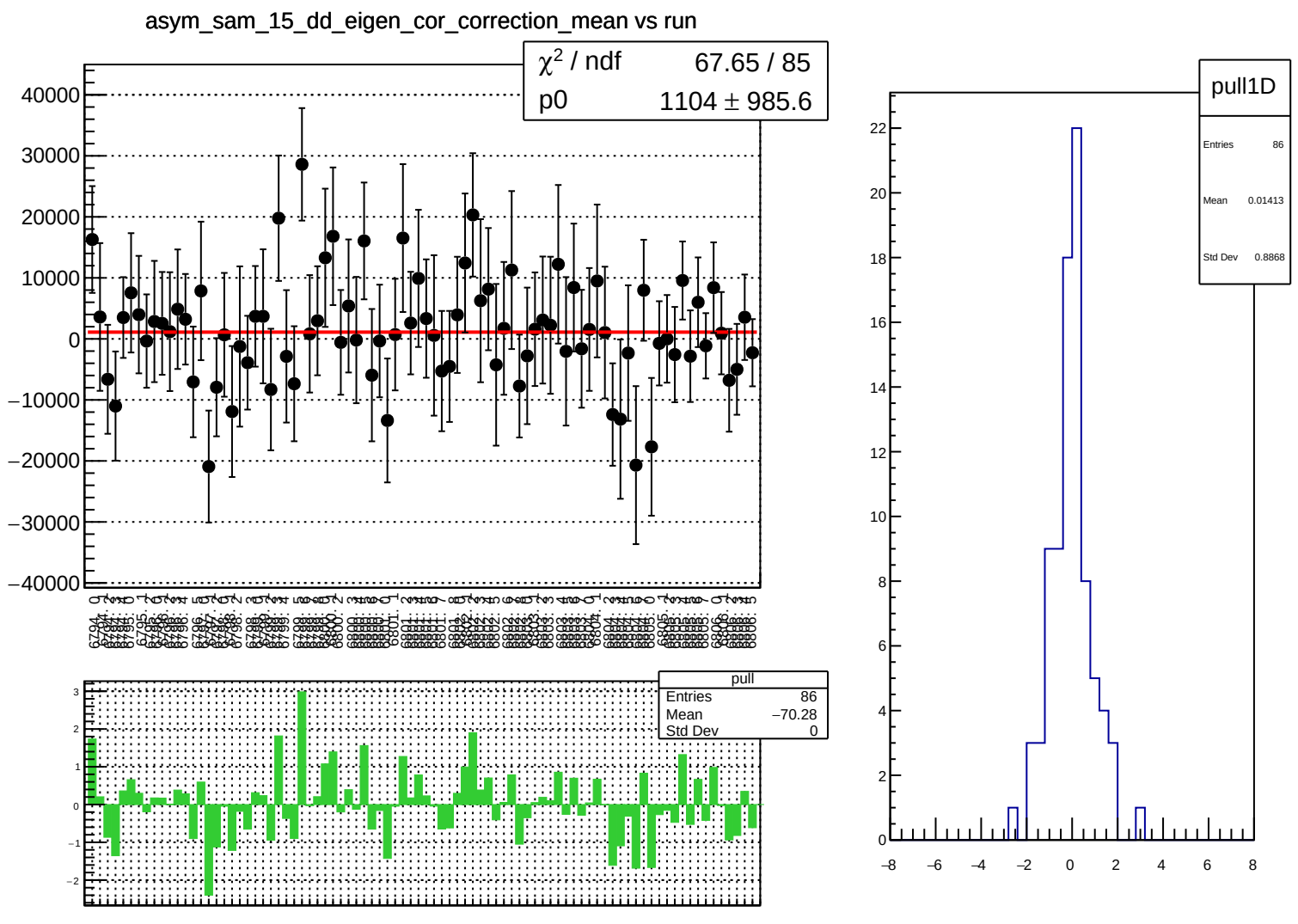

pull1D
Entries 86
Mean 0.01413
Std Dev 0.8868

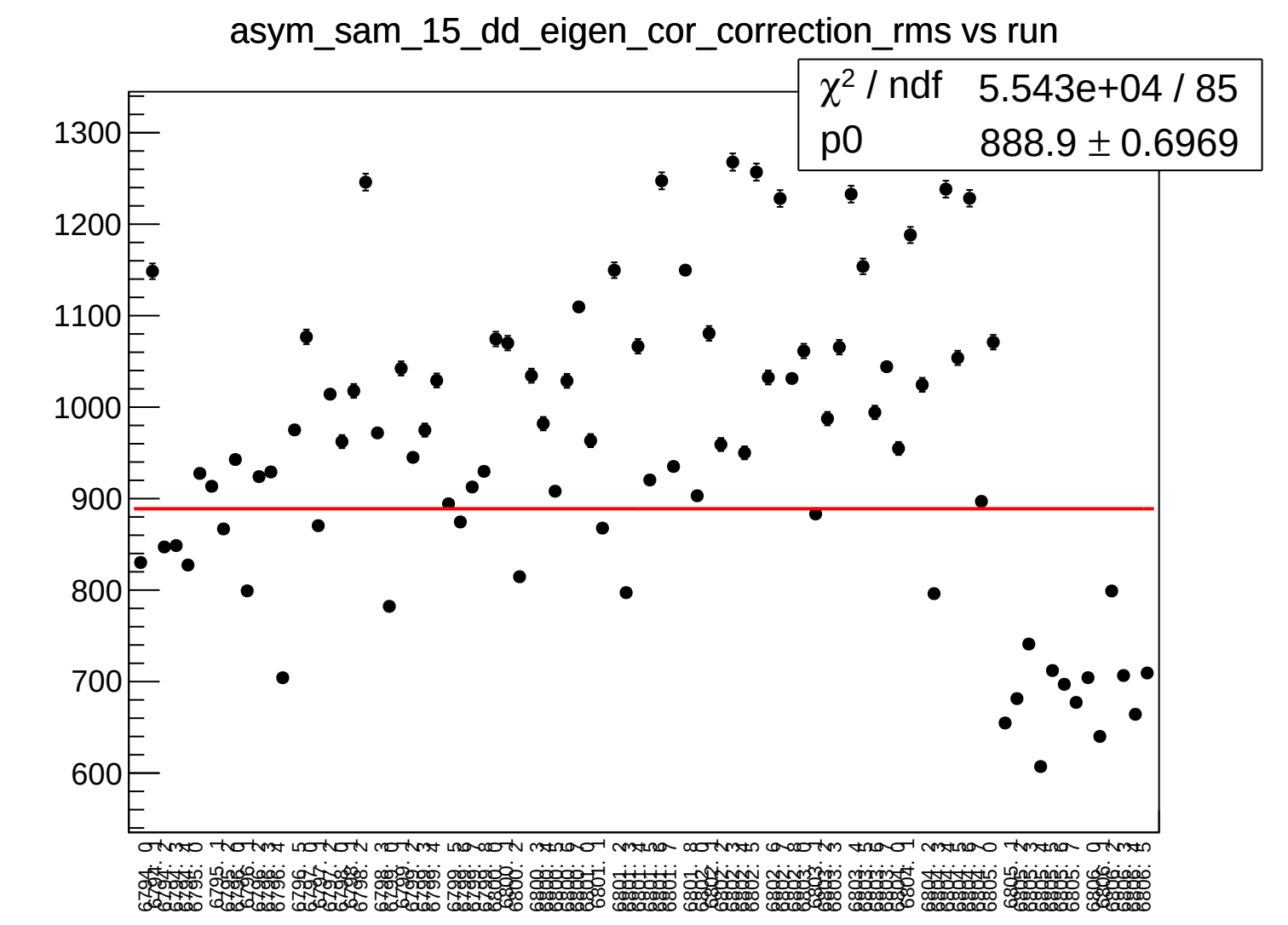

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 5.543e+04 / 85
p0 888.9 ± 0.6969
1300
1200
1100
1000
900
800
700
600

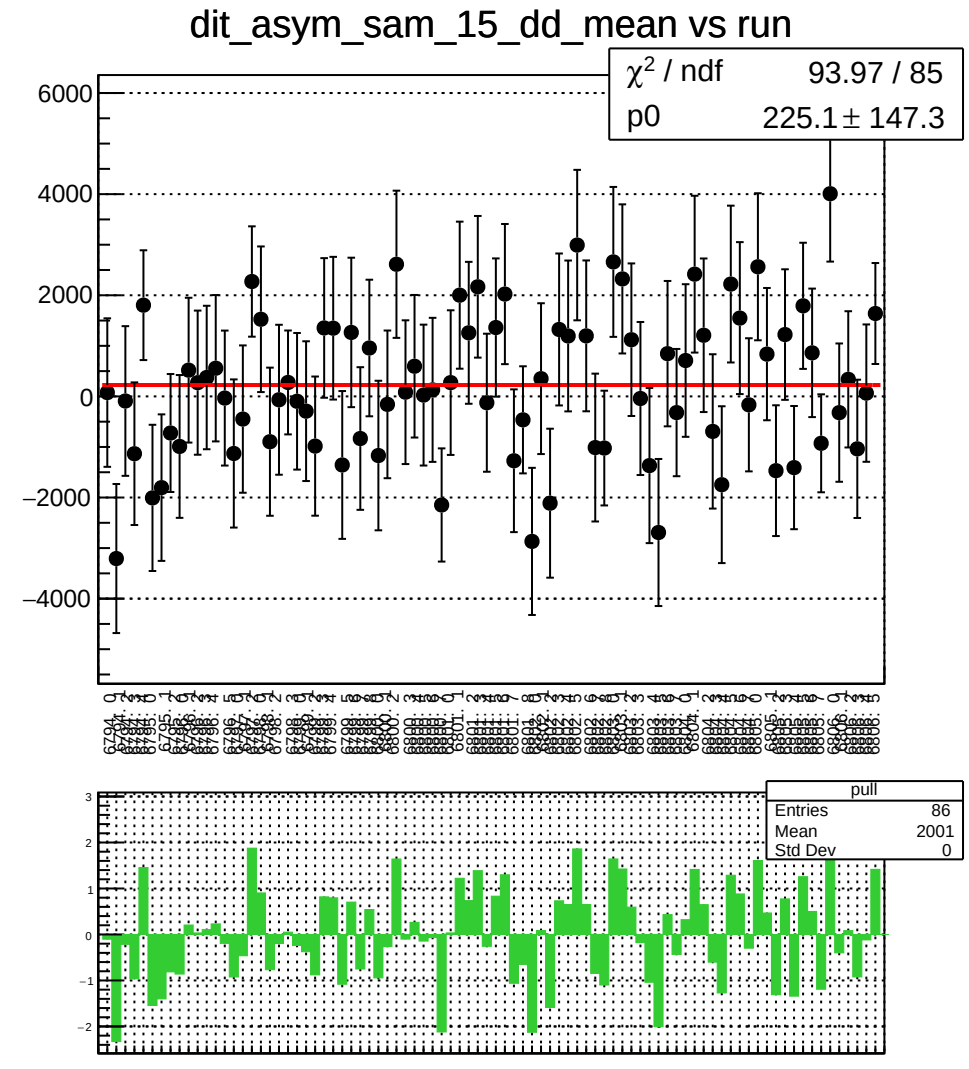

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 103.4 / 85
p0 167 ± 137.3
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 757.5
Std Dev 0
3
2
1
0
−1
−2

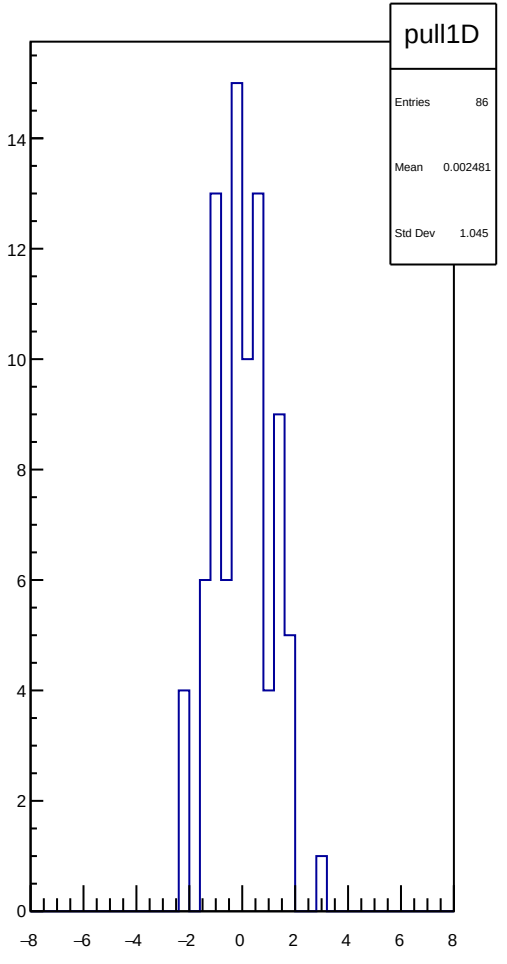

pull1D
Entries 86
Mean 0.007613
Std Dev 1.096
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

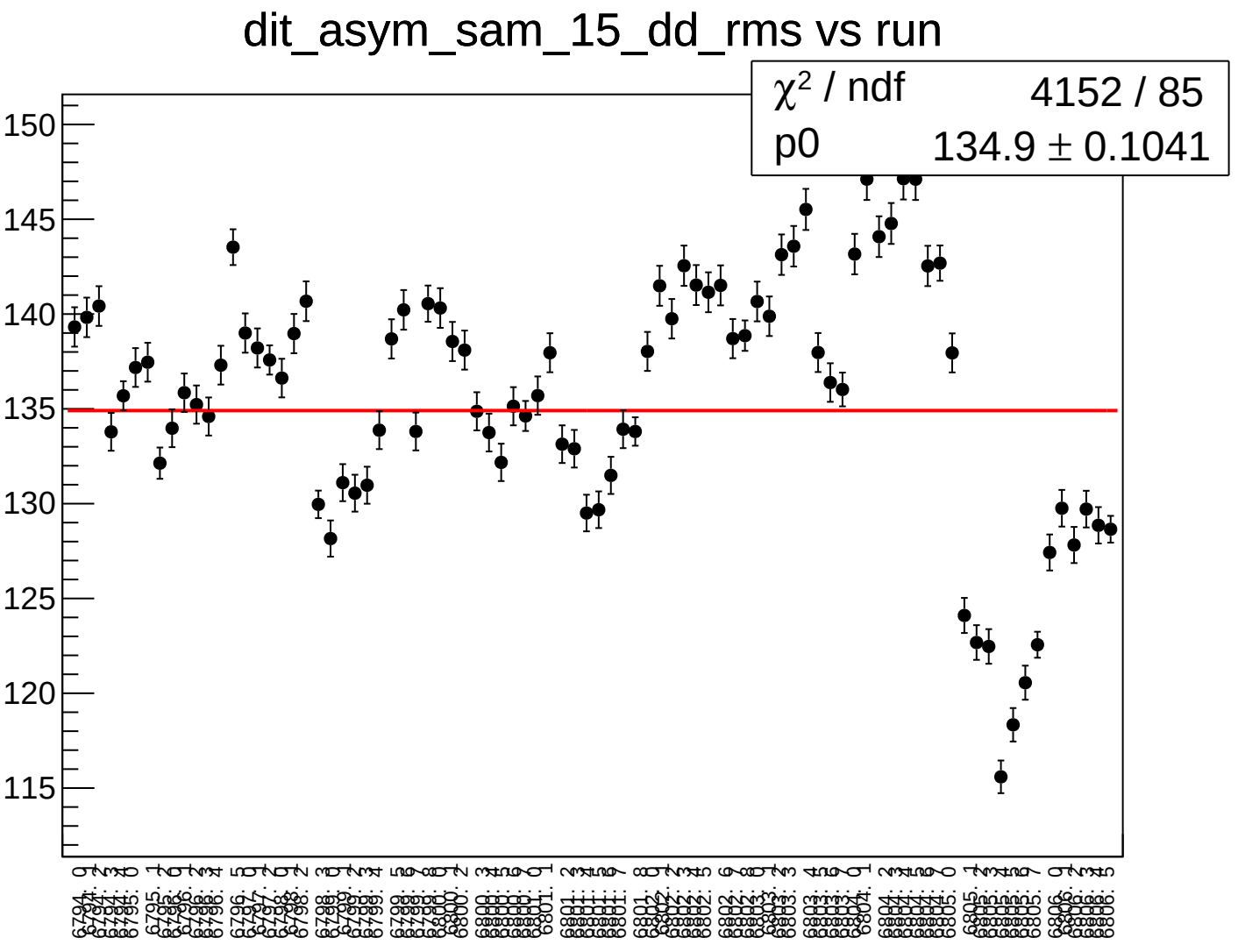

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 3735 / 85
p0 125.7 ± 0.09706
140
135
130
125
120
115
110

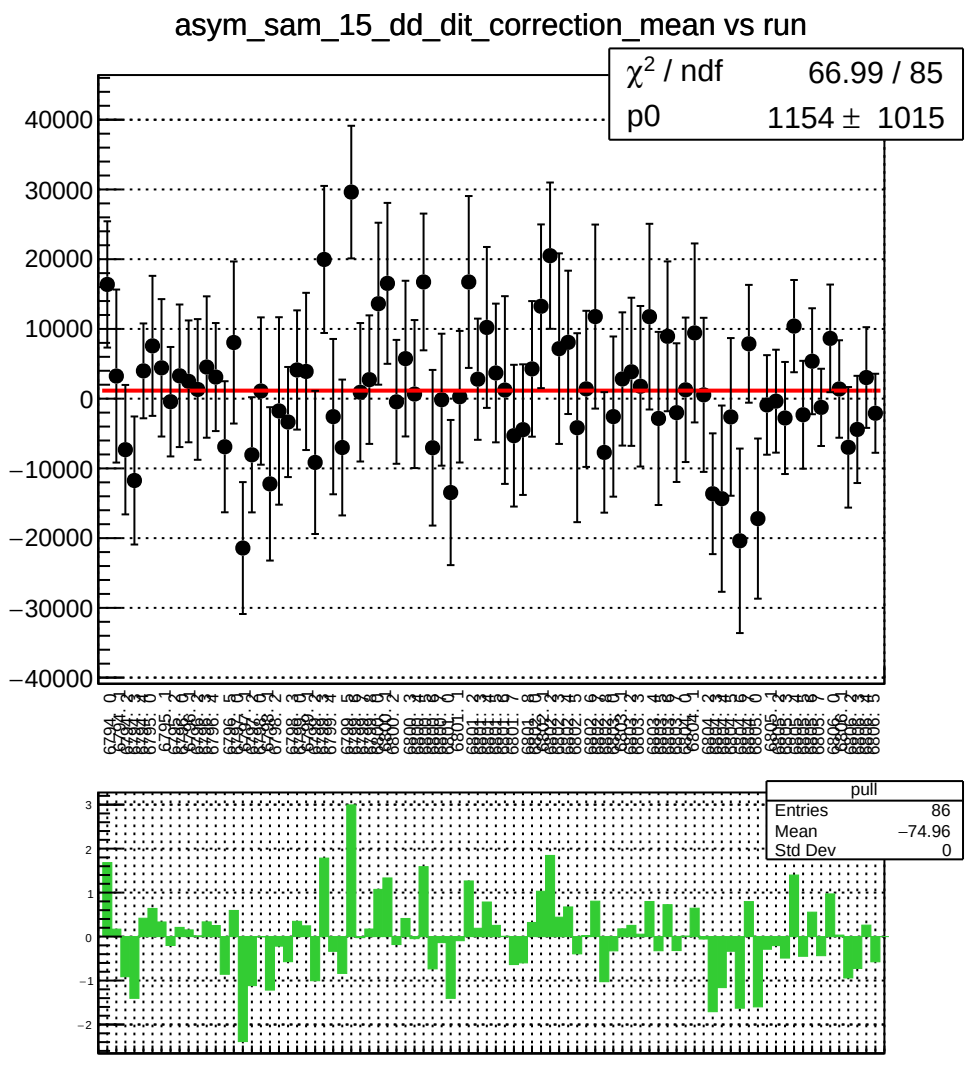

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.65 / 85
p0 1104 ± 985.6
pull
Entries 86
Mean −70.28
Std Dev 0
pull1D
Entries 86
Mean 0.01413
Std Dev 0.8868

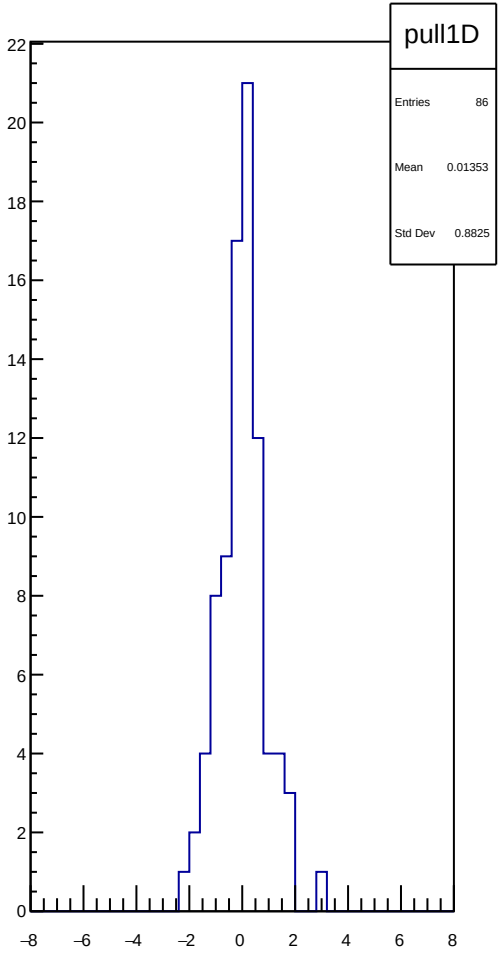

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.543e+04 / 85
p0 888.9 ± 0.6969
1300
1200
1100
1000
900
800
700
600

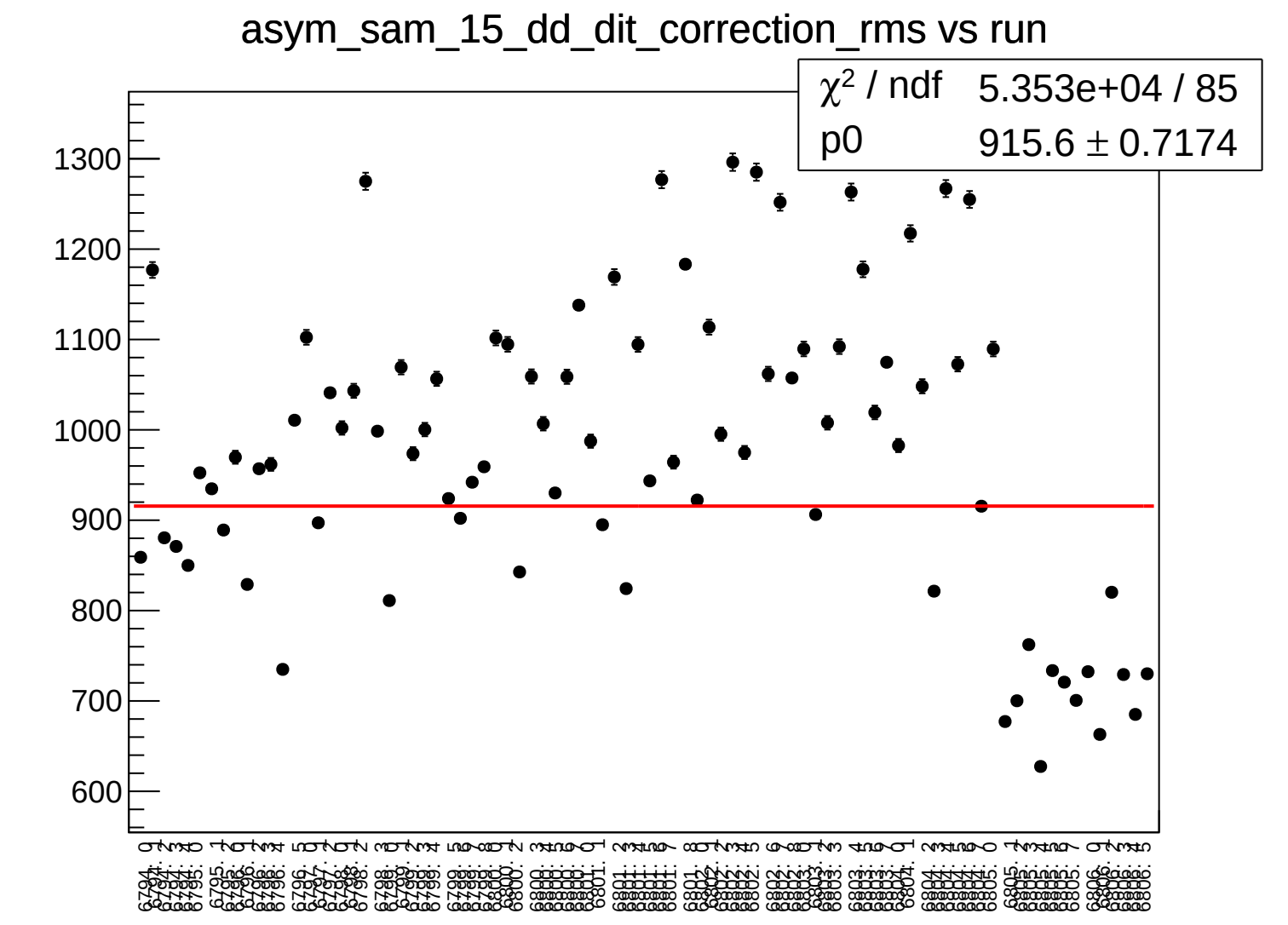

dit_asym_sam_15_dd_mean vs run
χ² / ndf 93.97 / 85
p0 225.1 ± 147.3
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 2001
Std Dev 0
3
2
1
0
−1
−2

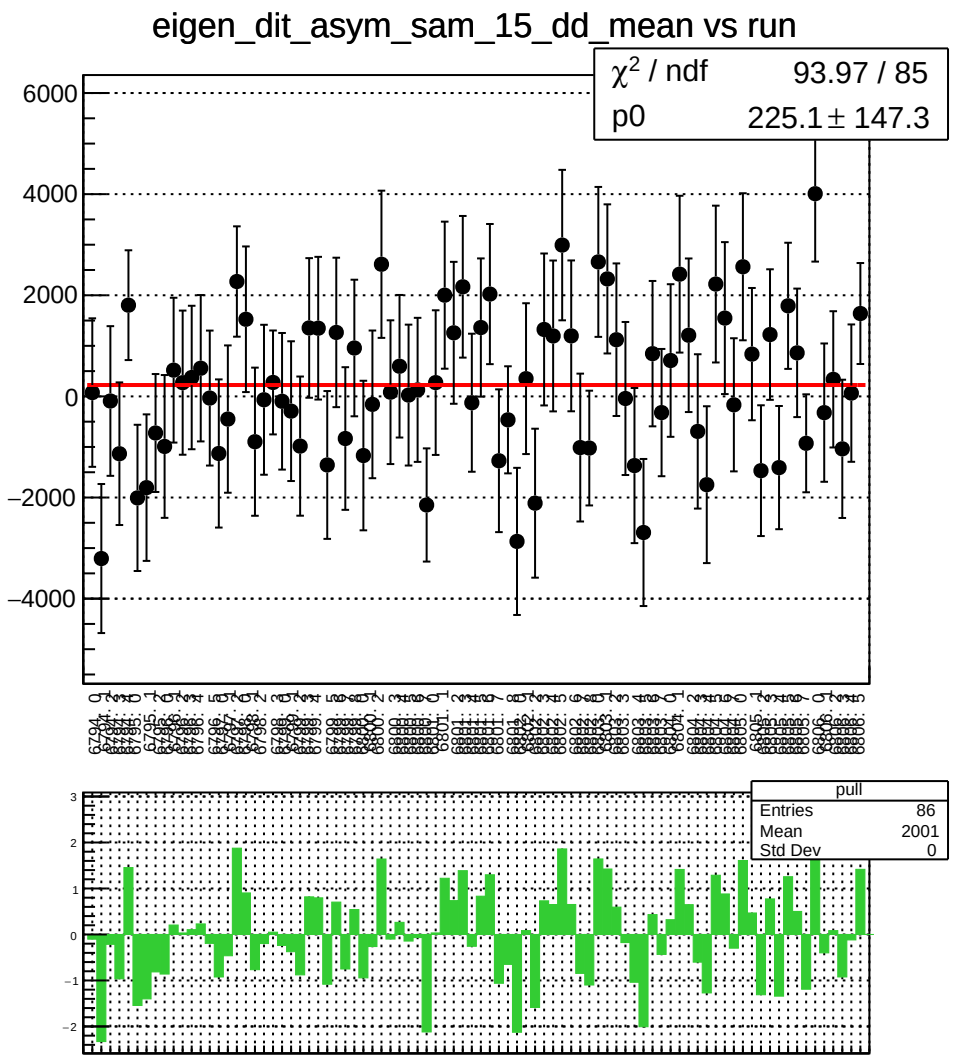

pull1D
Entries 86
Mean 0.002481
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

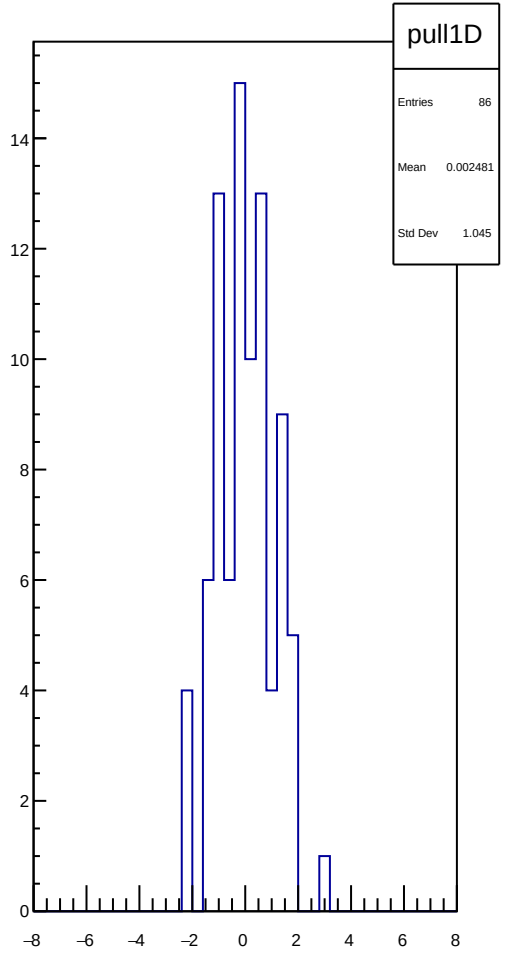

dit_asym_sam_15_dd_rms vs run
χ² / ndf 4152 / 85
p0 134.9 ± 0.1041
150
145
140
135
130
125
120
115

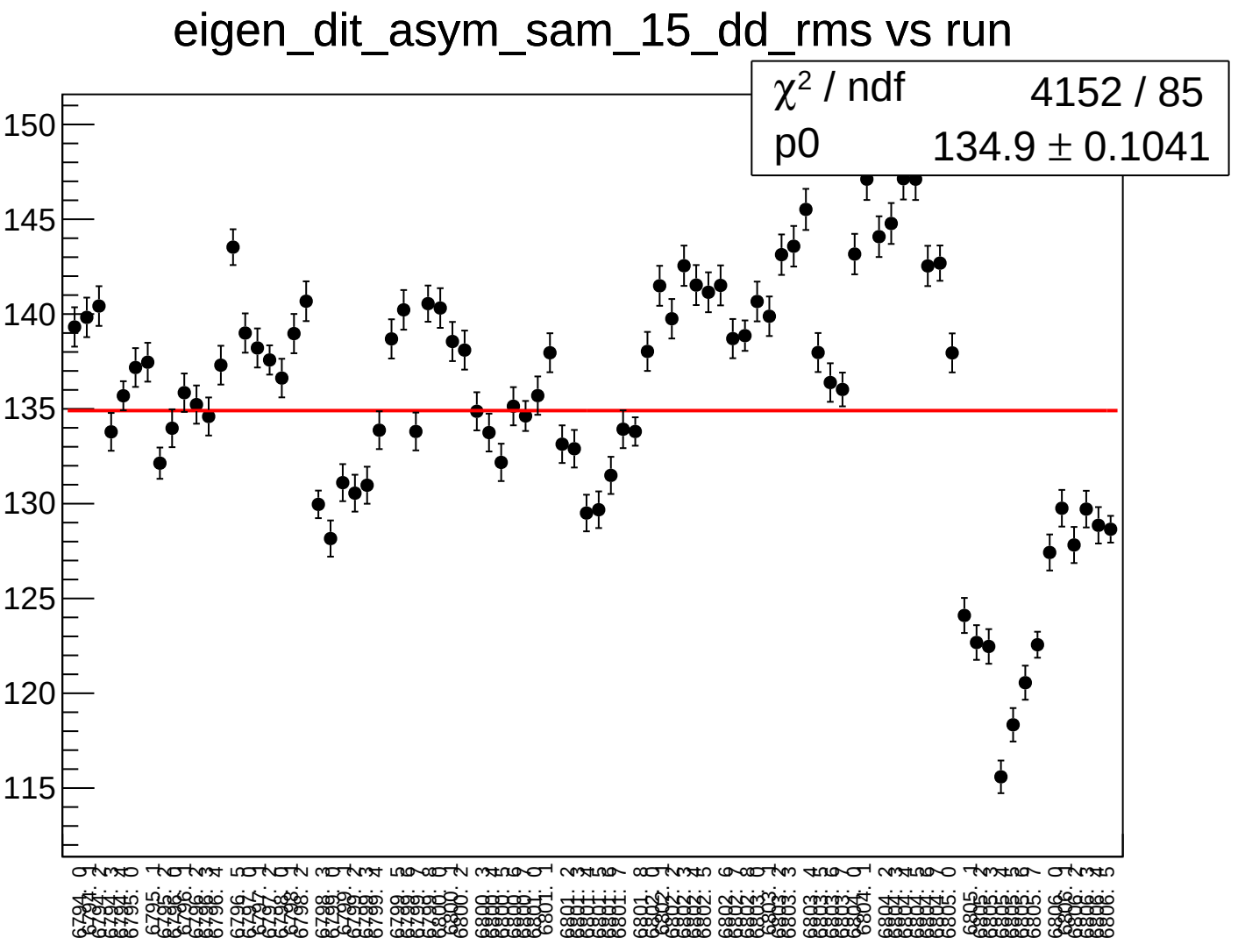

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 66.99 / 85
p0 1154 ± 1015
pull
Entries 86
Mean −74.96
Std Dev 0

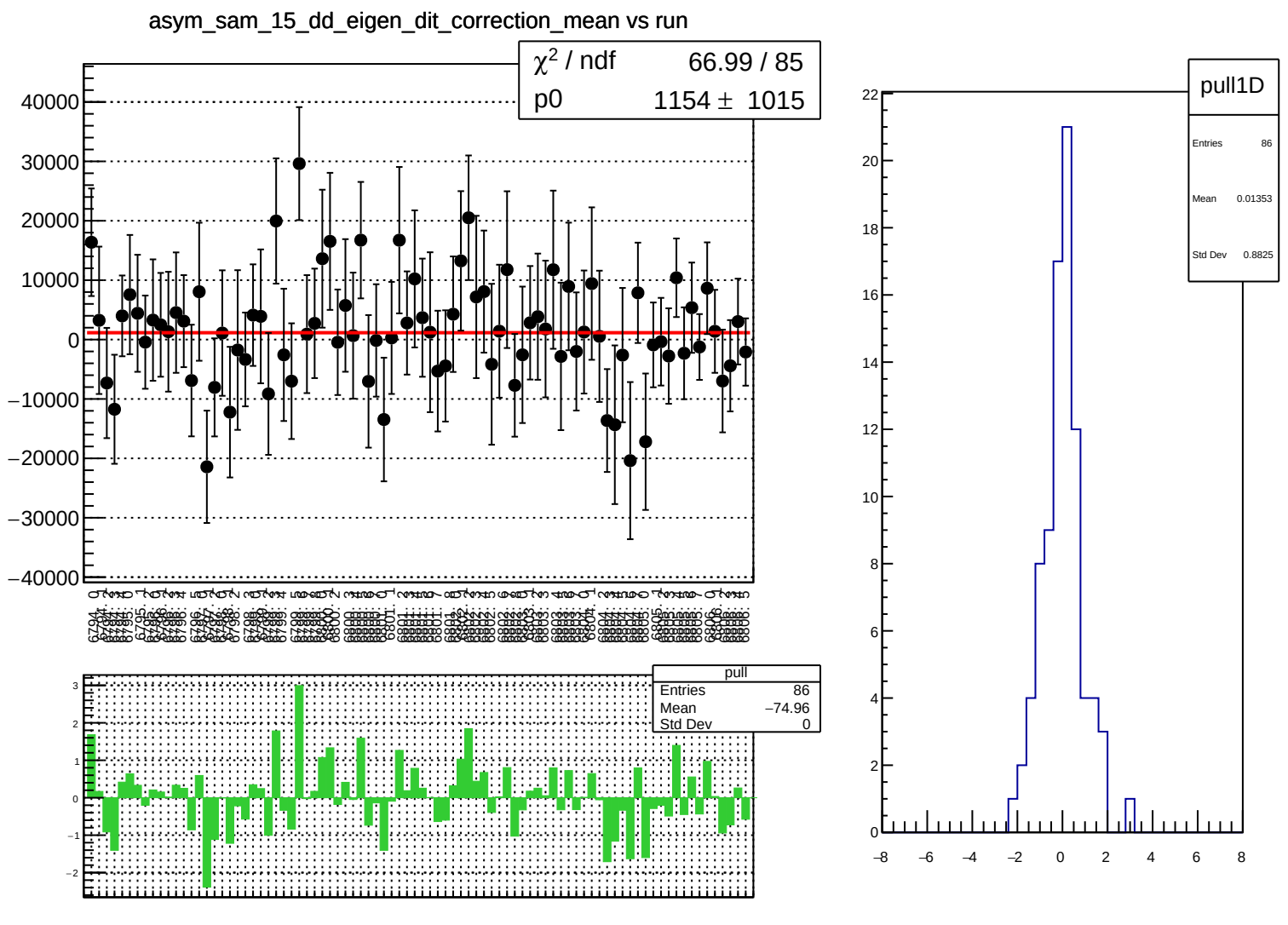

pull1D
Entries 86
Mean 0.01353
Std Dev 0.8825

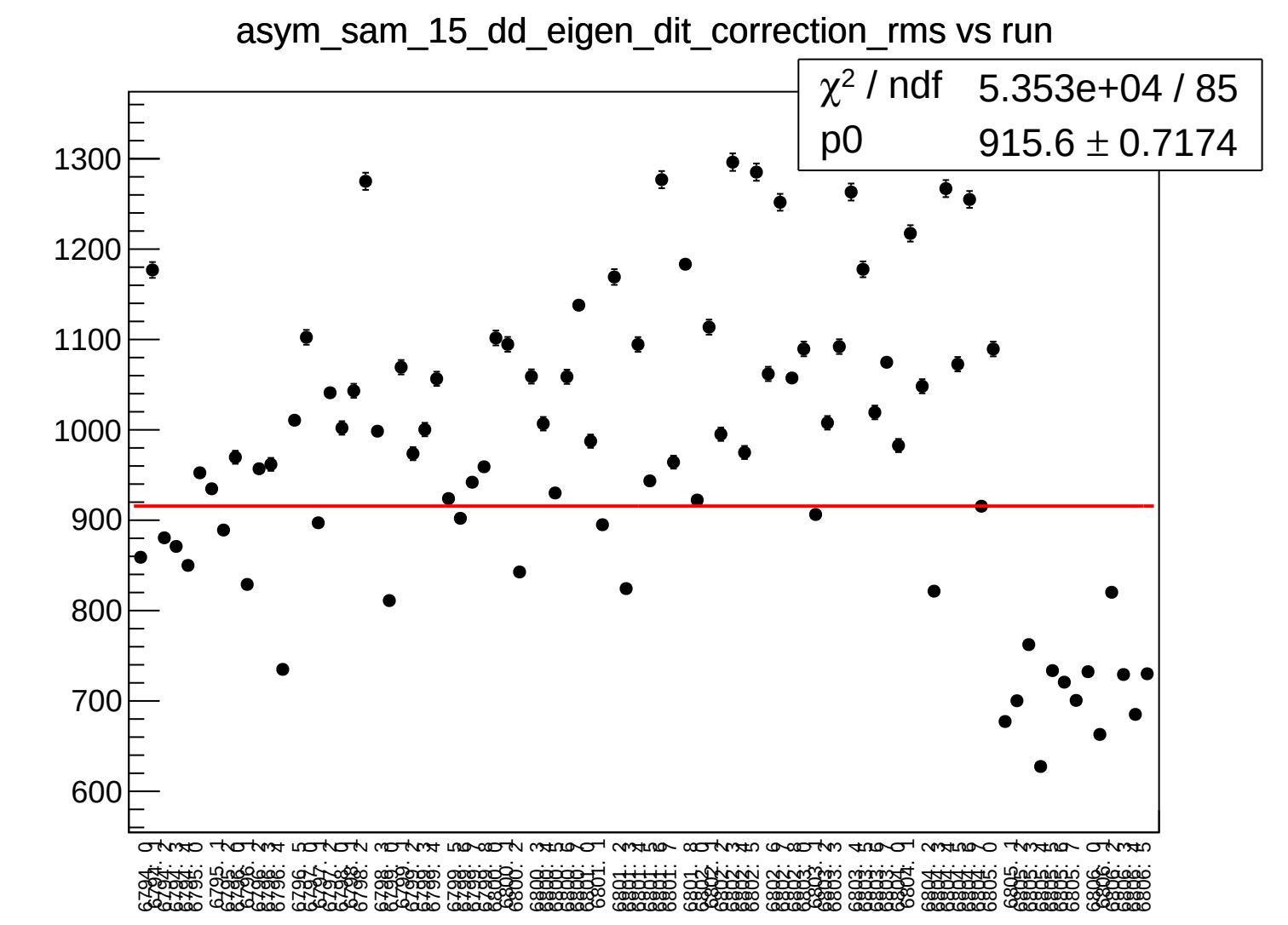

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 5.353e+04 / 85
p0 915.6 ± 0.7174
1300
1200
1100
1000
900
800
700
600

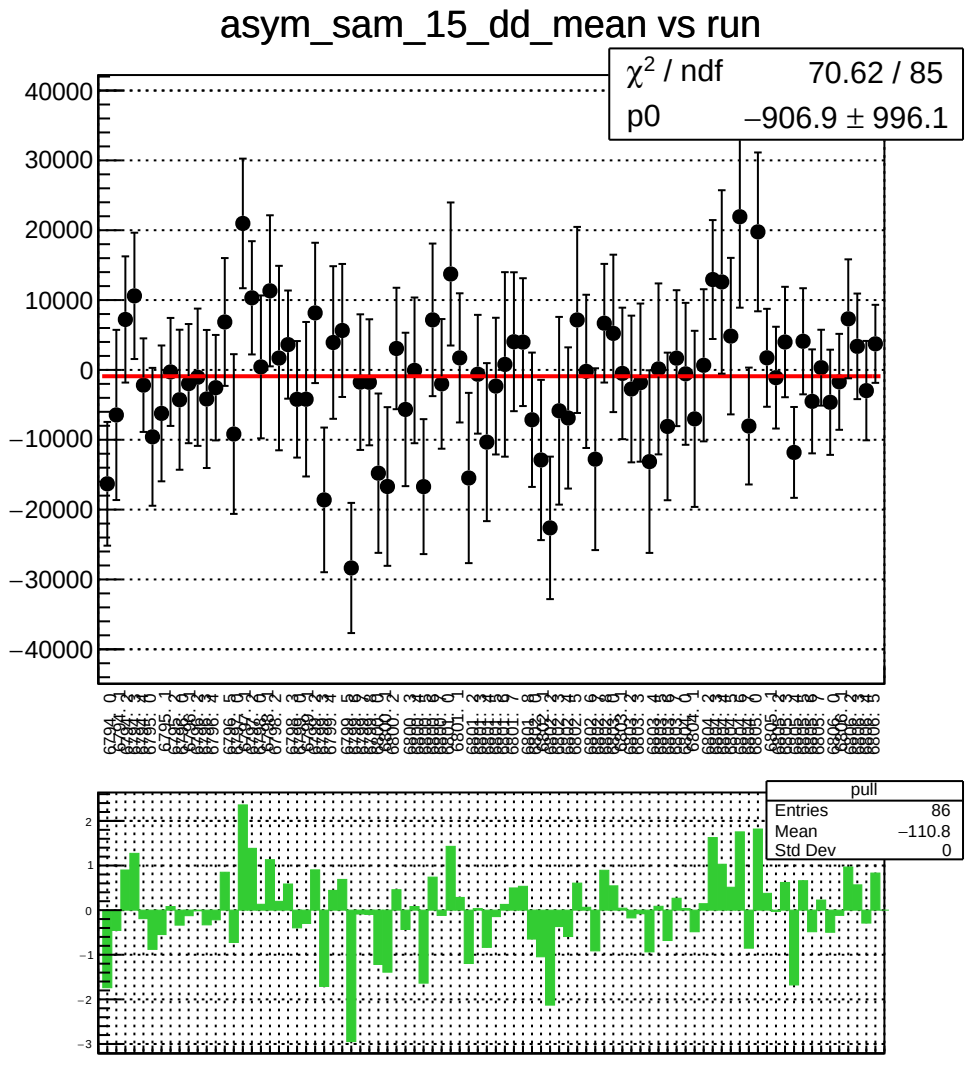

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 93.97 / 85
p0 225.1 ± 147.3
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean 2001
Std Dev 0
3
2
1
0
−1
−2

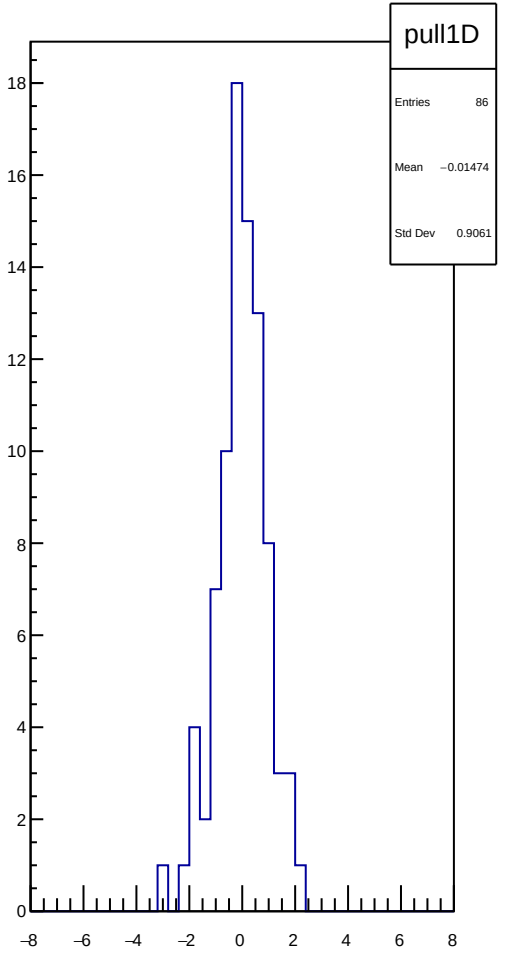

pull1D
Entries 86
Mean 0.002481
Std Dev 1.045
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

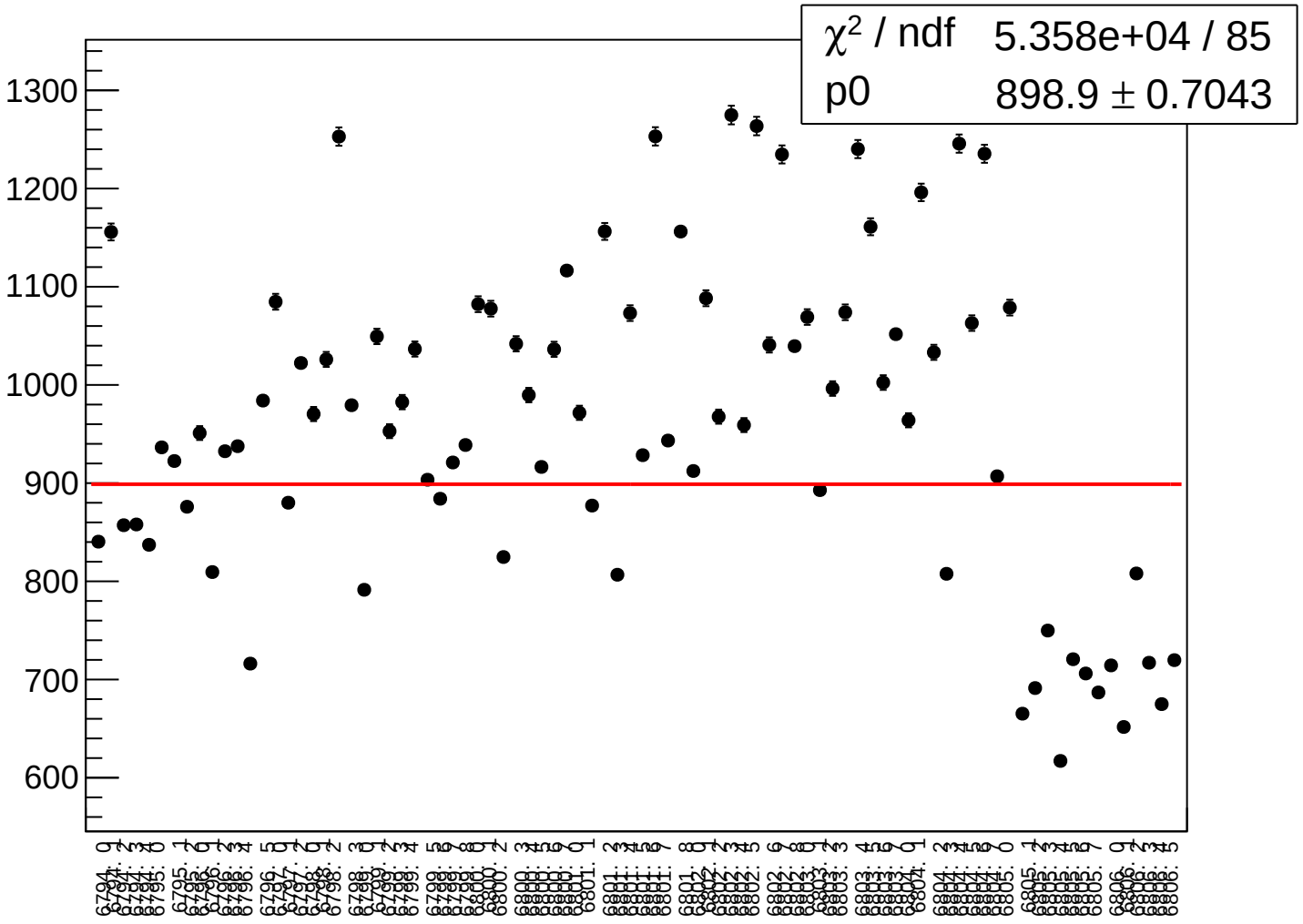

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 4152 / 85
p0 134.9 ± 0.1041
150
145
140
135
130
125
120
115

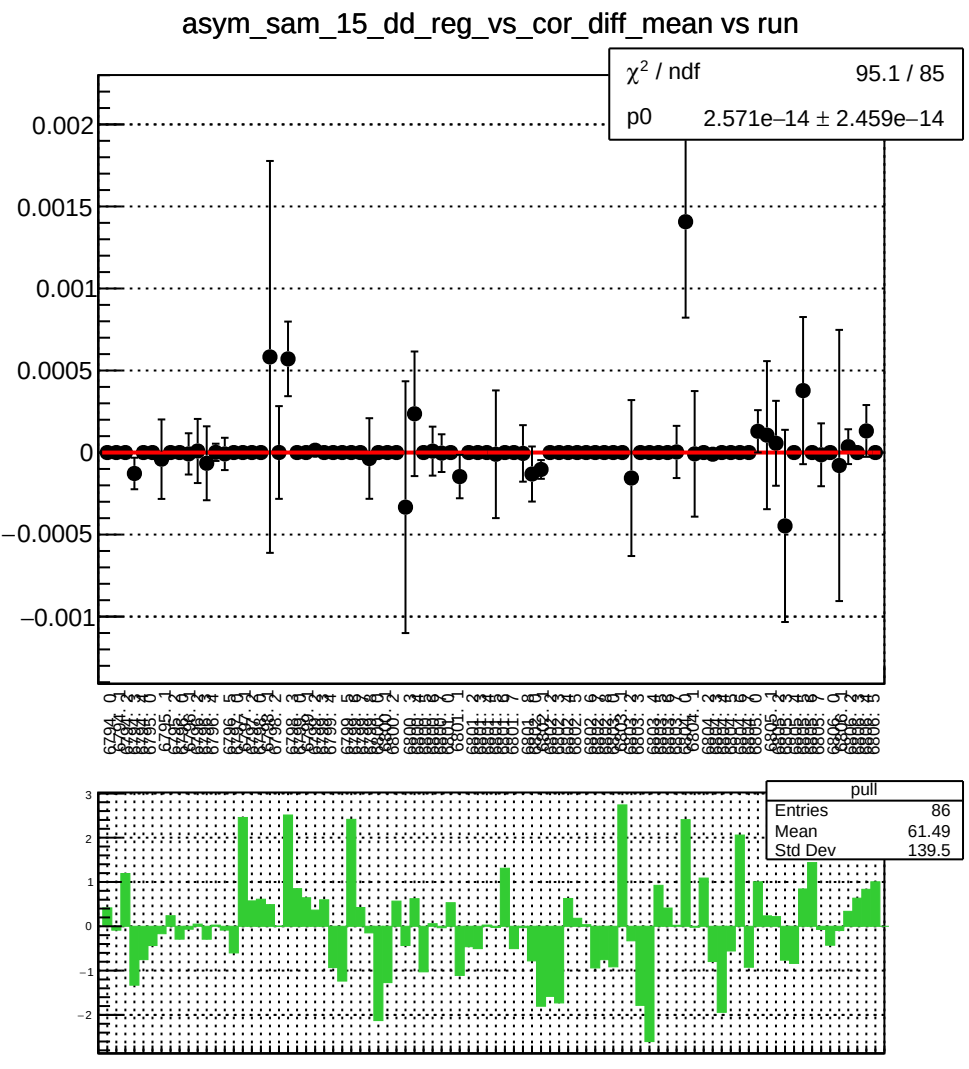

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.99 / 85
p0 1154 ± 1015
pull
Entries 86
Mean −74.96
Std Dev 0
pull1D
Entries 86
Mean 0.01353
Std Dev 0.8825

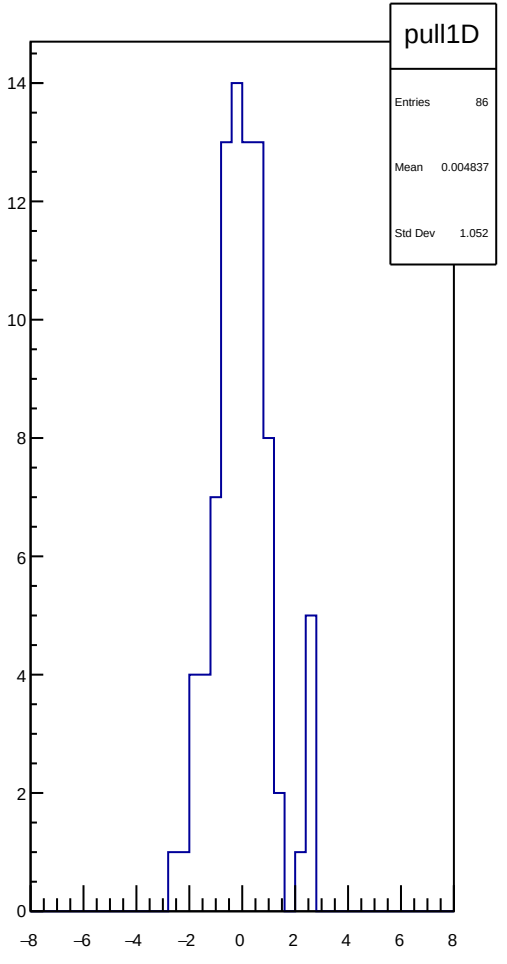

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.353e+04 / 85
p0 915.6 ± 0.7174
1300
1200
1100
1000
900
800
700
600

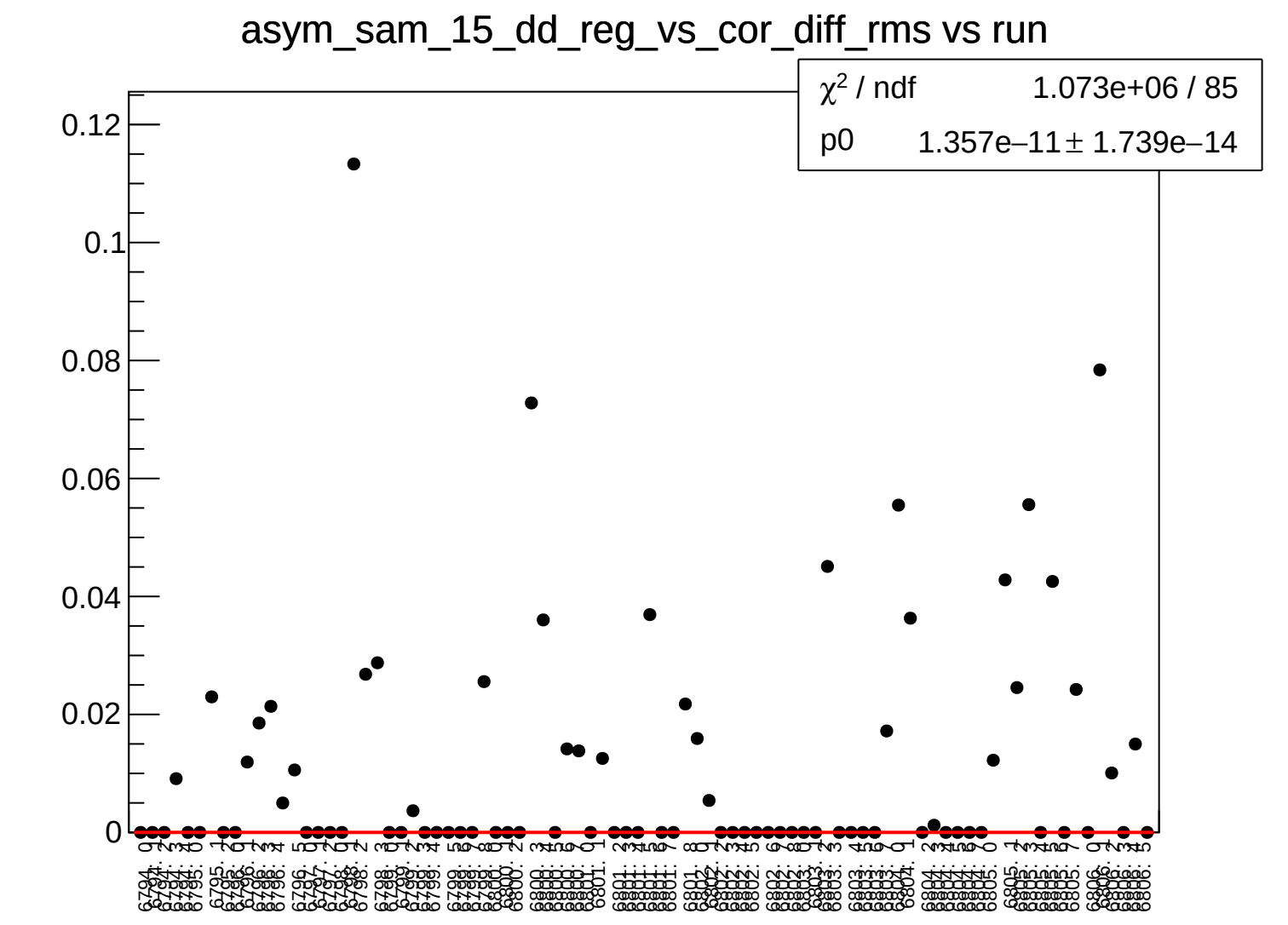

asym_sam_15_dd_mean vs run
χ² / ndf 70.62 / 85
p0 −906.9 ± 996.1
pull
Entries 86
Mean −110.8
Std Dev 0

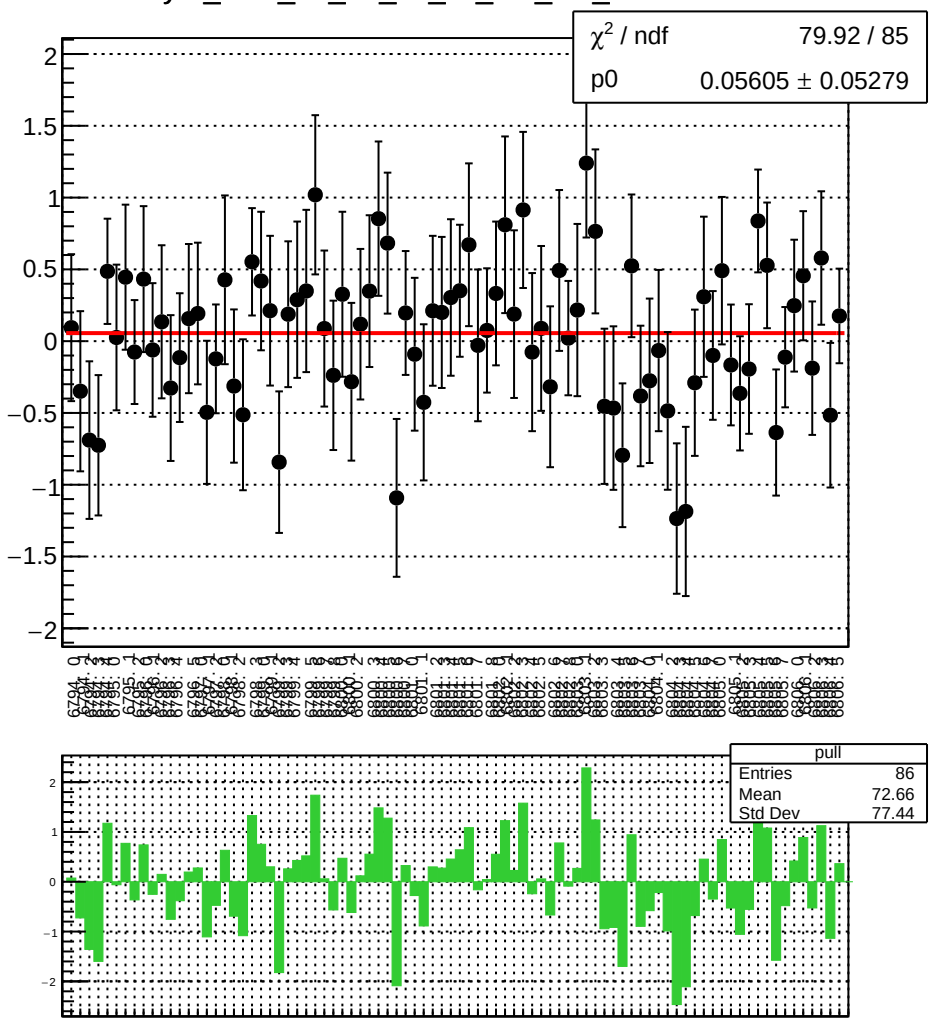

pull1D
Entries 86
Mean −0.01474
Std Dev 0.9061

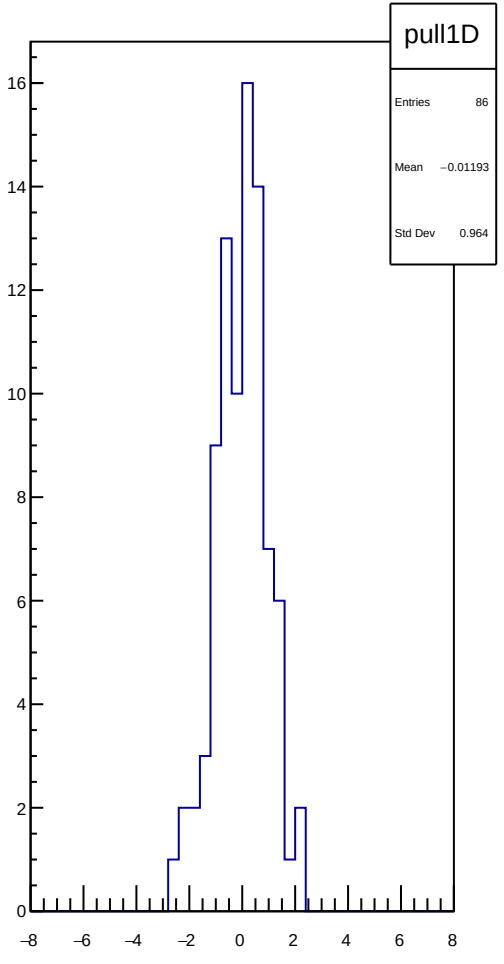

asym_sam_15_dd_rms vs run
χ^2 / ndf 5.358e+04 / 85
p0 898.9 ± 0.7043
1300
1200
1100
1000
900
800
700
600

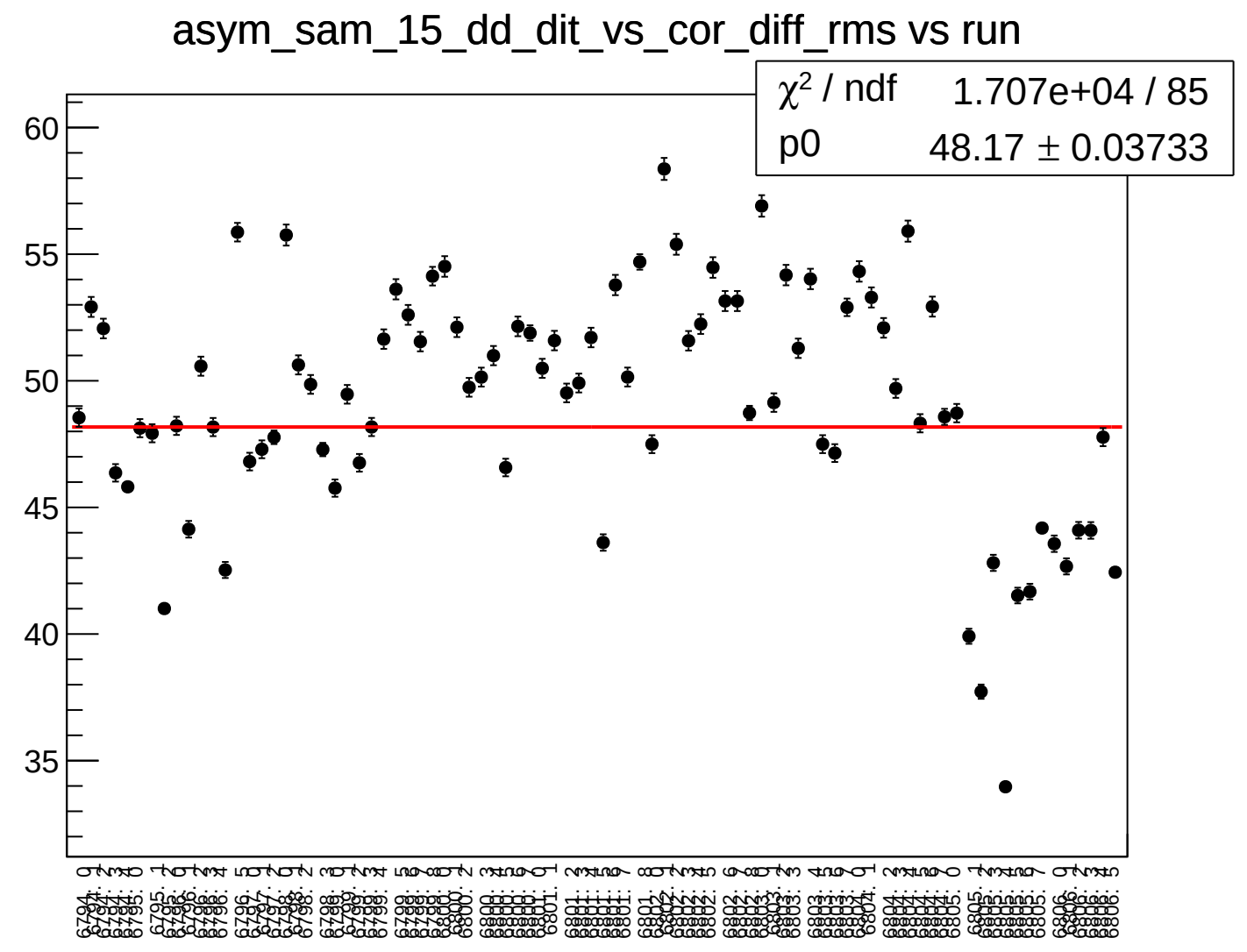

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.1 / 85
p0 2.571e−14 ± 2.459e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 61.49
Std Dev 139.5
3
2
1
0
−1
−2

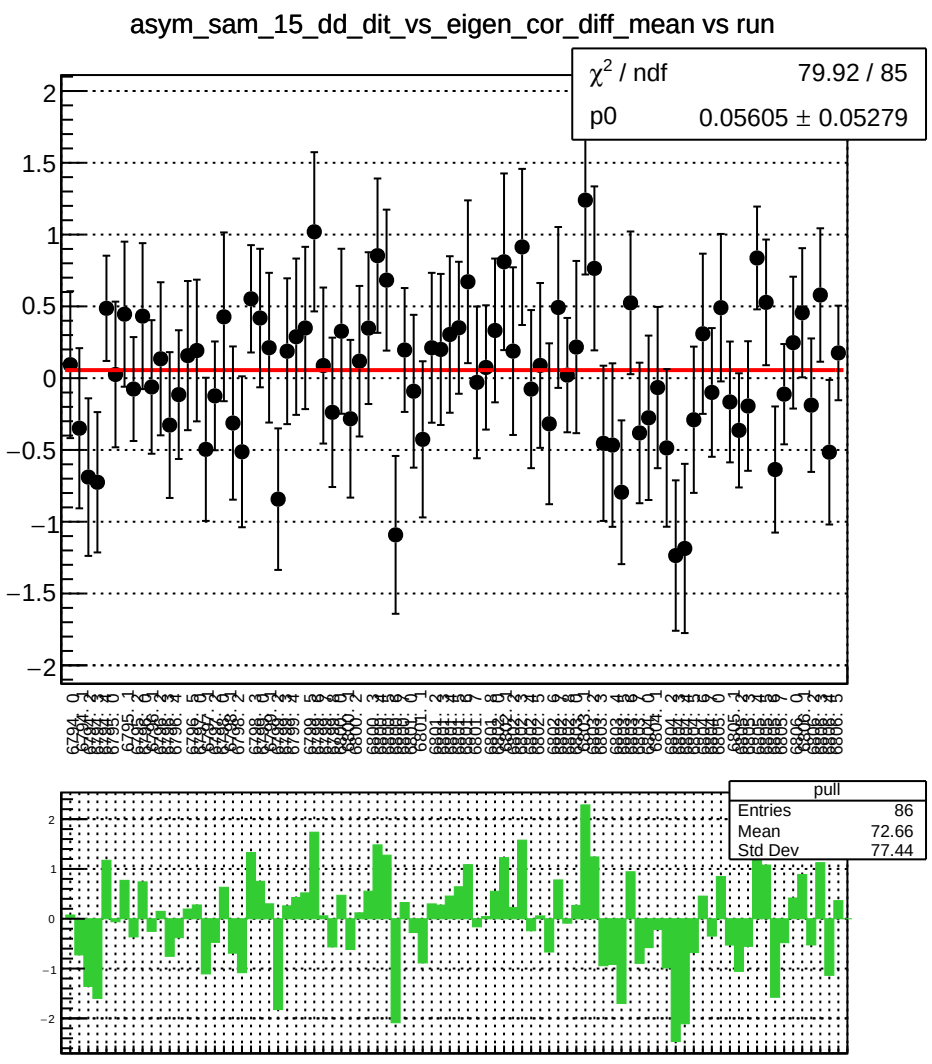

pull1D
Entries 86
Mean 0.004837
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

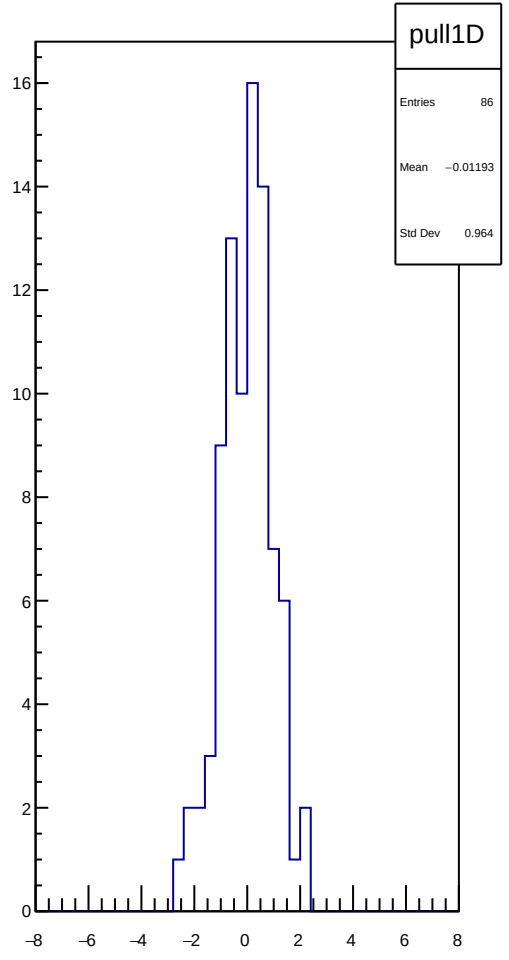

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 85
p0 1.357e−11 ± 1.739e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

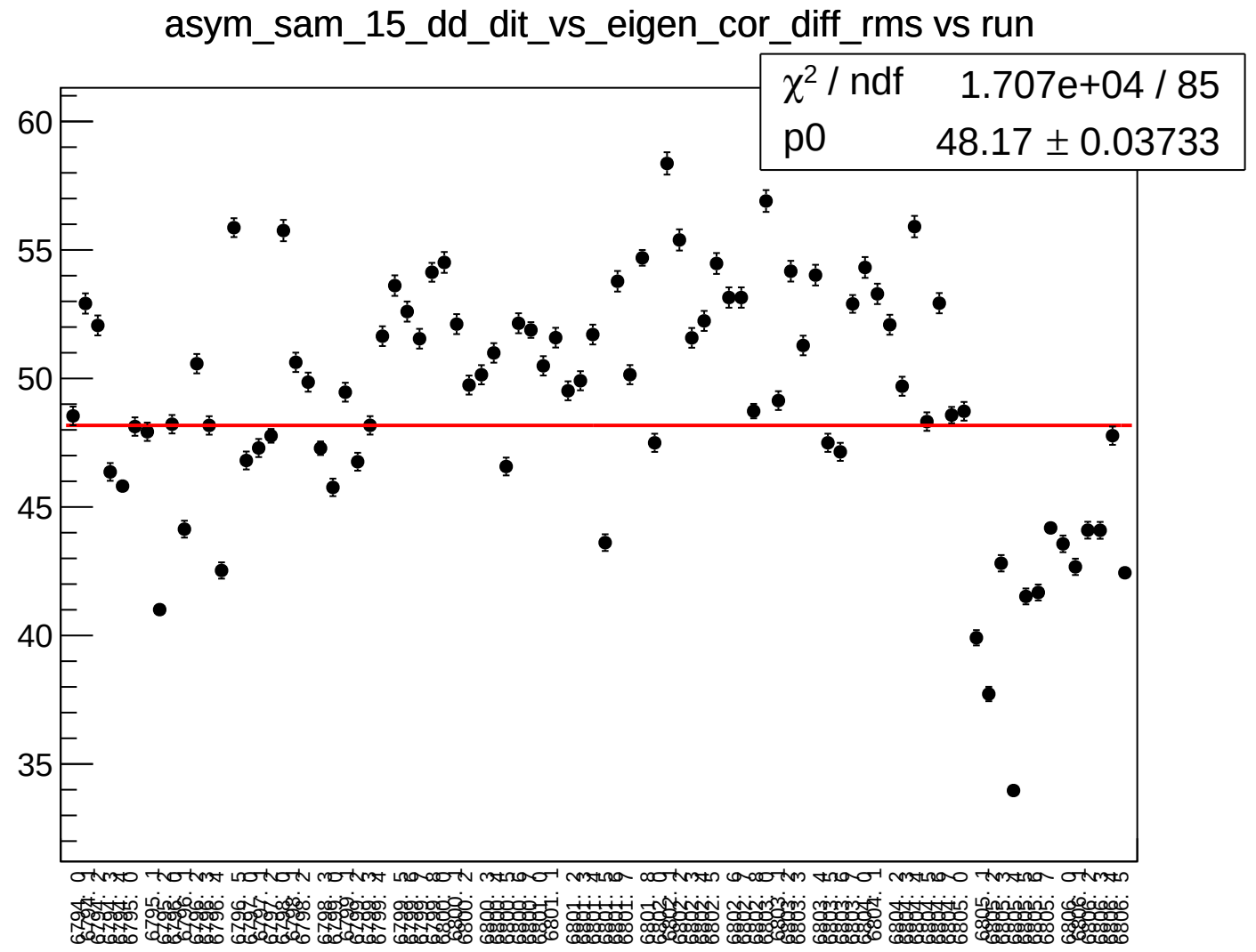

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 85
p0 0.05605 ± 0.05279
pull
Entries 86
Mean 72.66
Std Dev 77.44

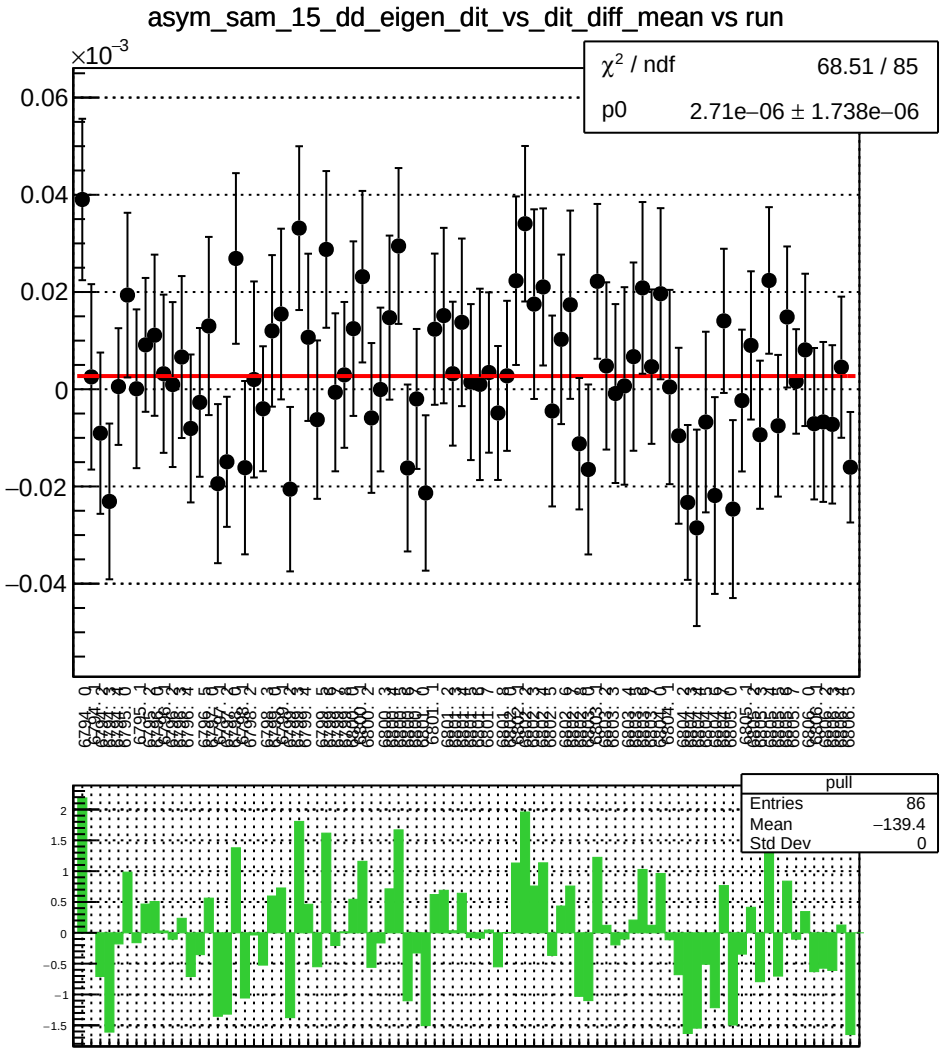

pull1D
Entries 86
Mean −0.01193
Std Dev 0.964

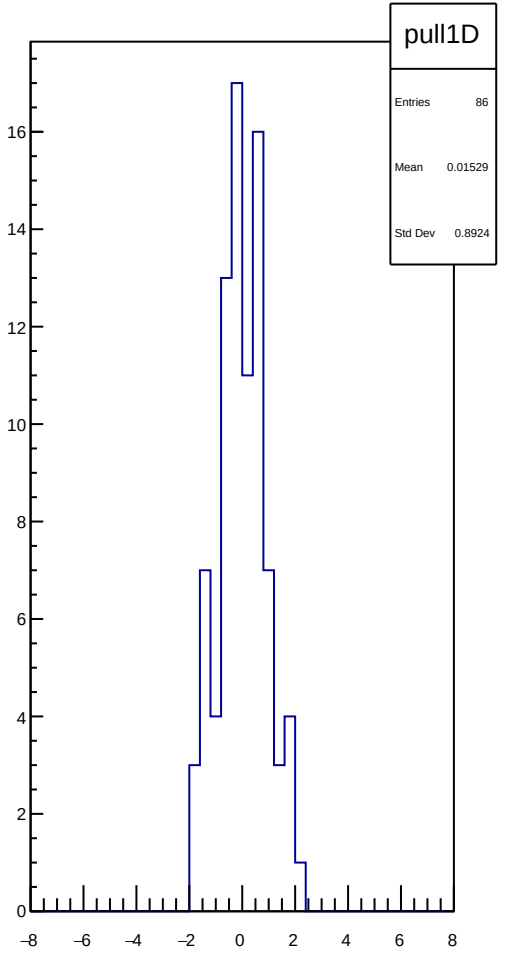

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.707e+04 / 85
p0 48.17 ± 0.03733
60
55
50
45
40
35

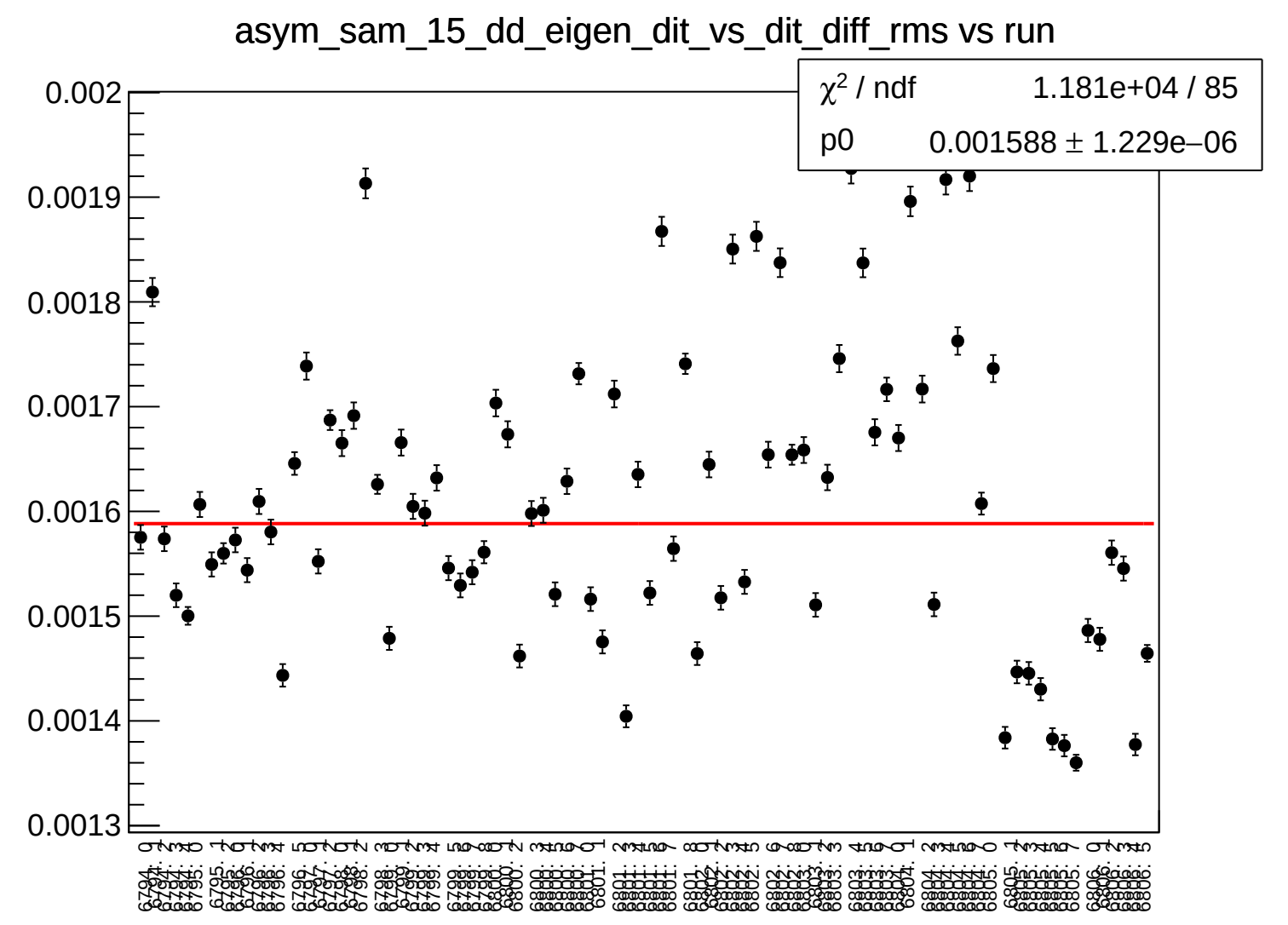

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.92 / 85
p0 0.05605 ± 0.05279
pull
Entries 86
Mean 72.66
Std Dev 77.44

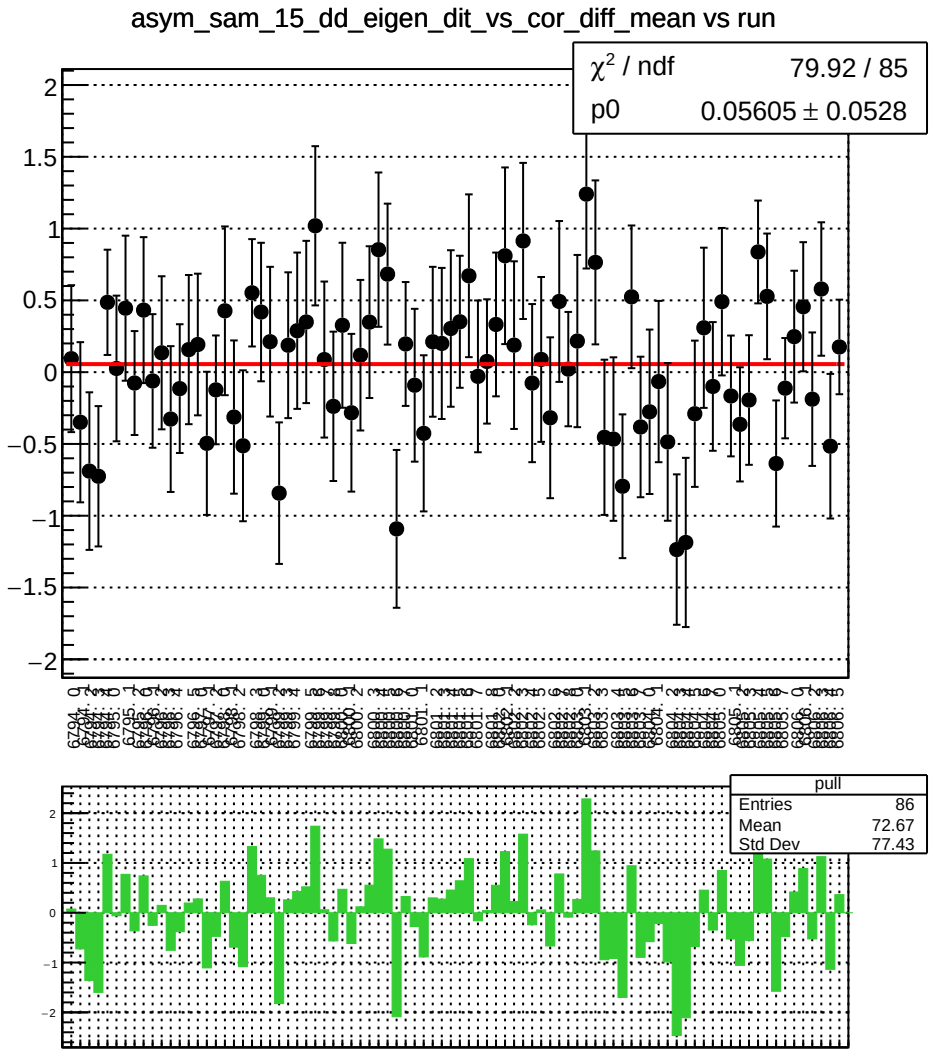

pull1D
Entries 86
Mean −0.01193
Std Dev 0.964

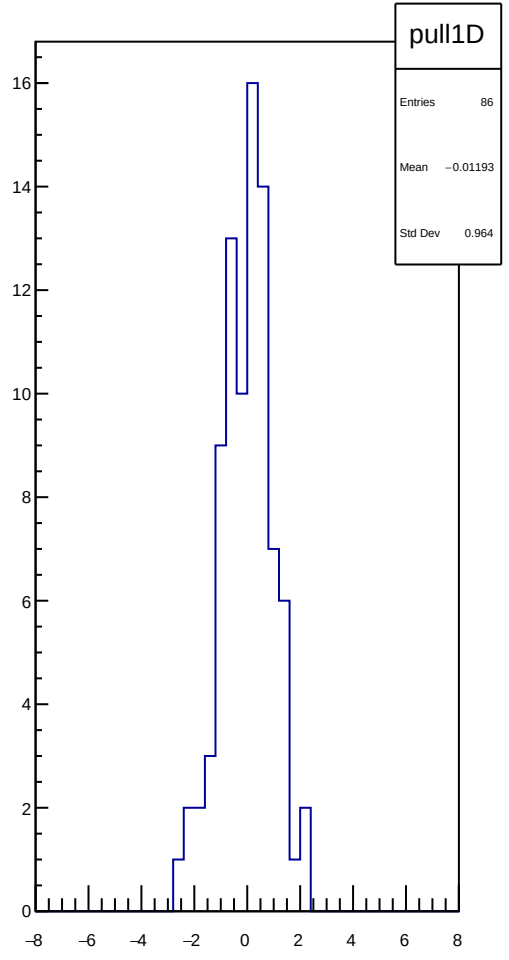

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.707e+04 / 85
p0 48.17 ± 0.03733
60
55
50
45
40
35

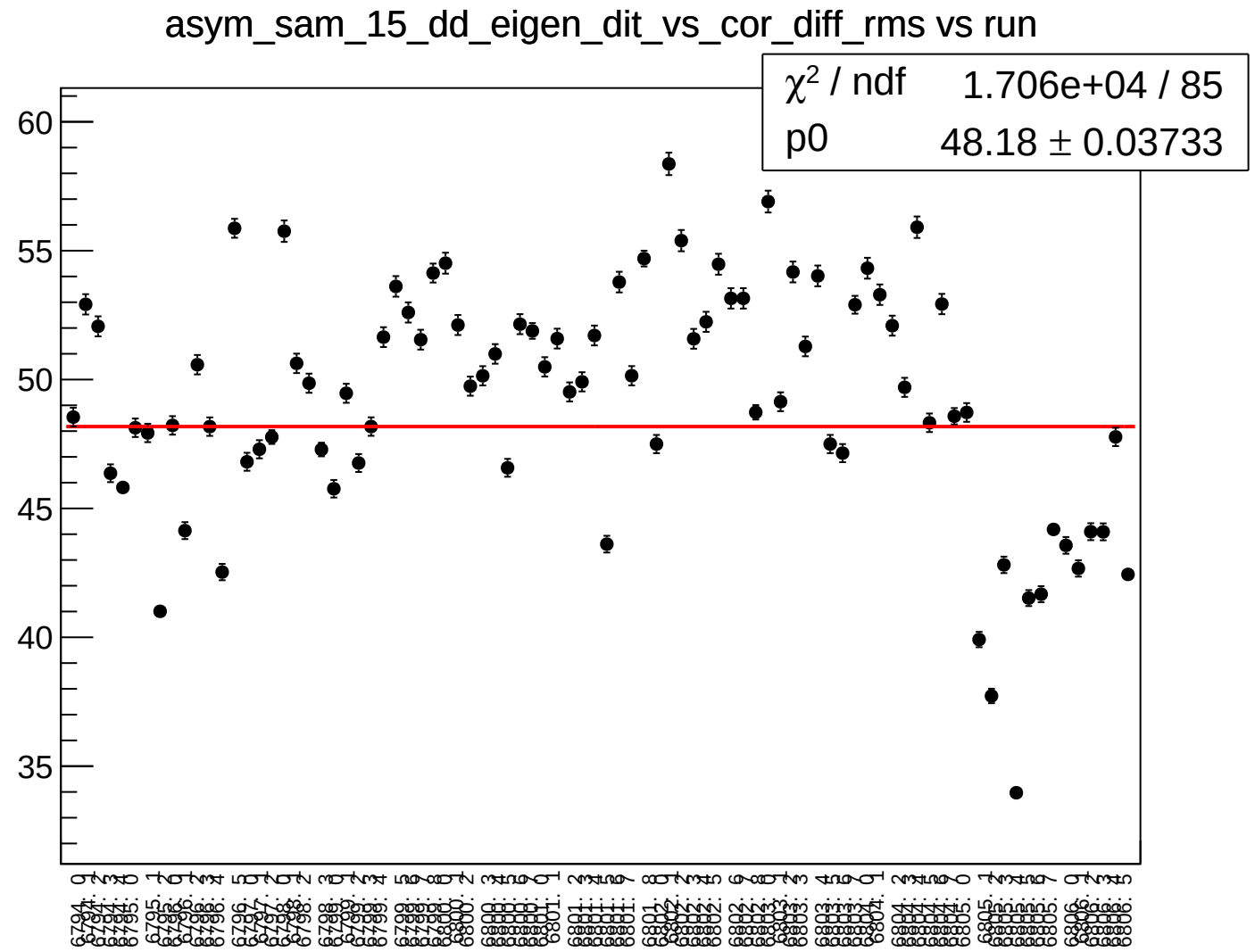

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.51 / 85
p0 2.71e−06 ± 1.738e−06
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 86
Mean −139.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

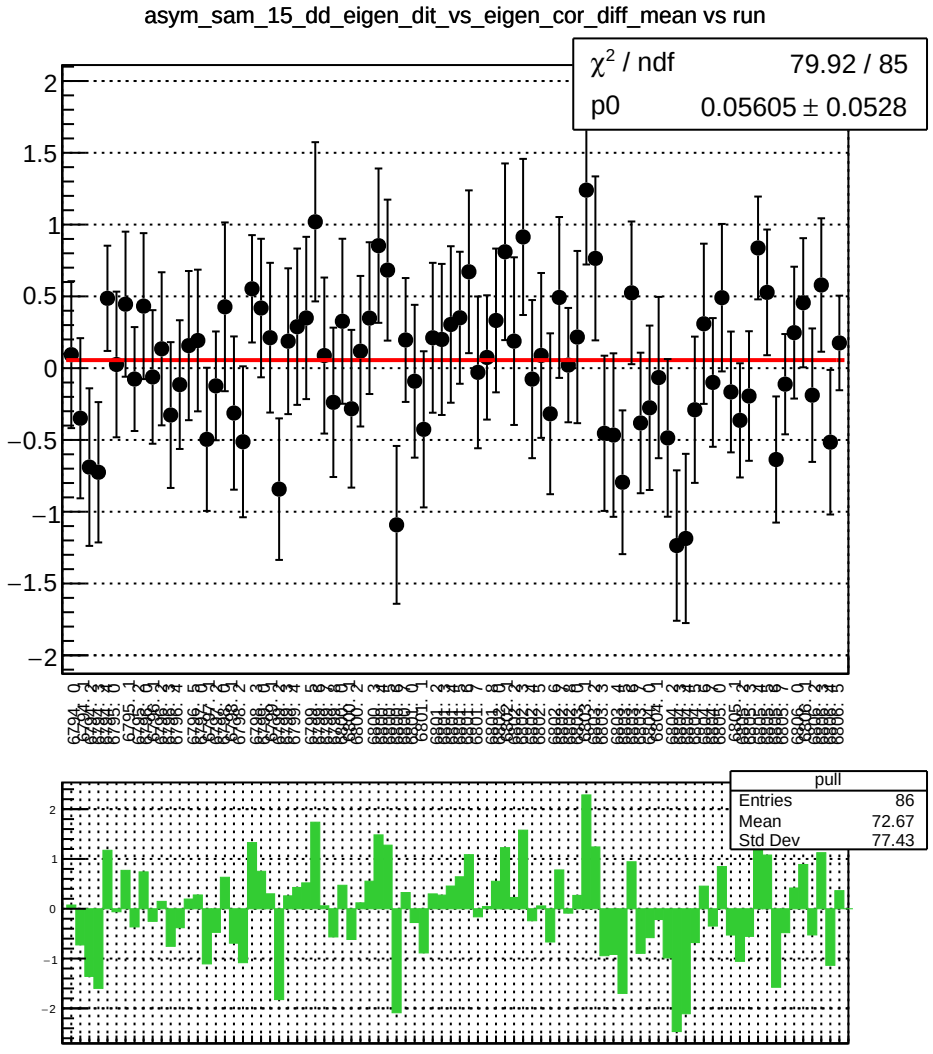

pull1D
Entries 86
Mean 0.01529
Std Dev 0.8924
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

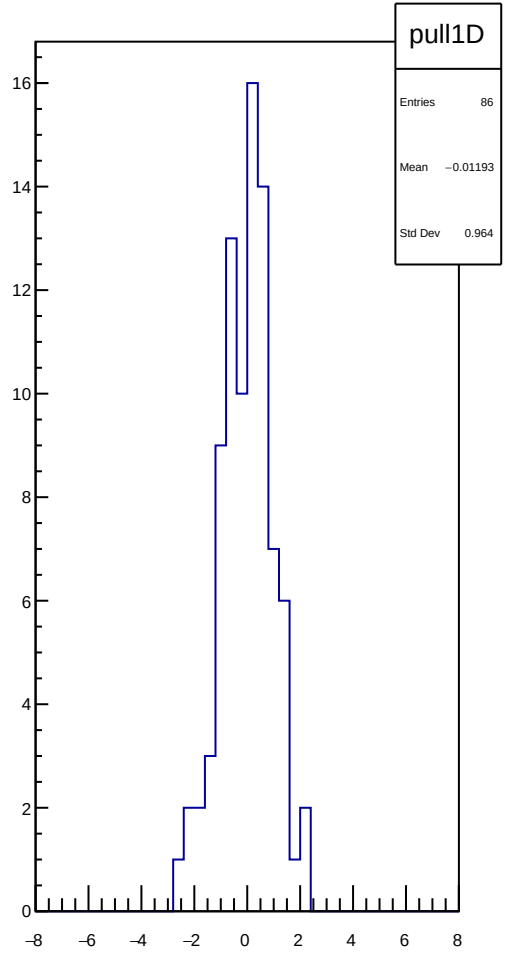

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.181e+04 / 85
p0 0.001588 ± 1.229e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

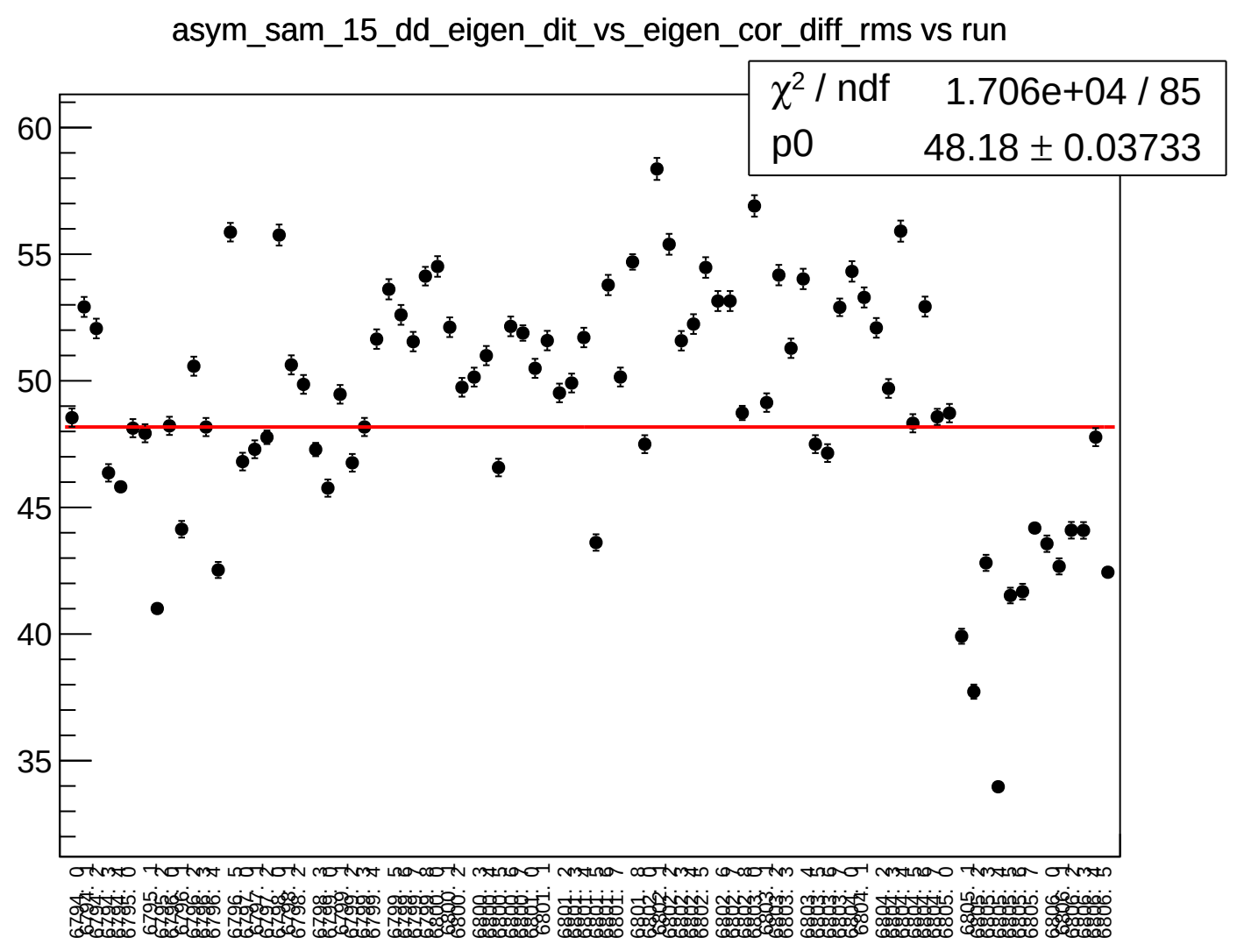

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.92 / 85
p0 0.05605 ± 0.0528
pull
Entries 86
Mean 72.67
Std Dev 77.43

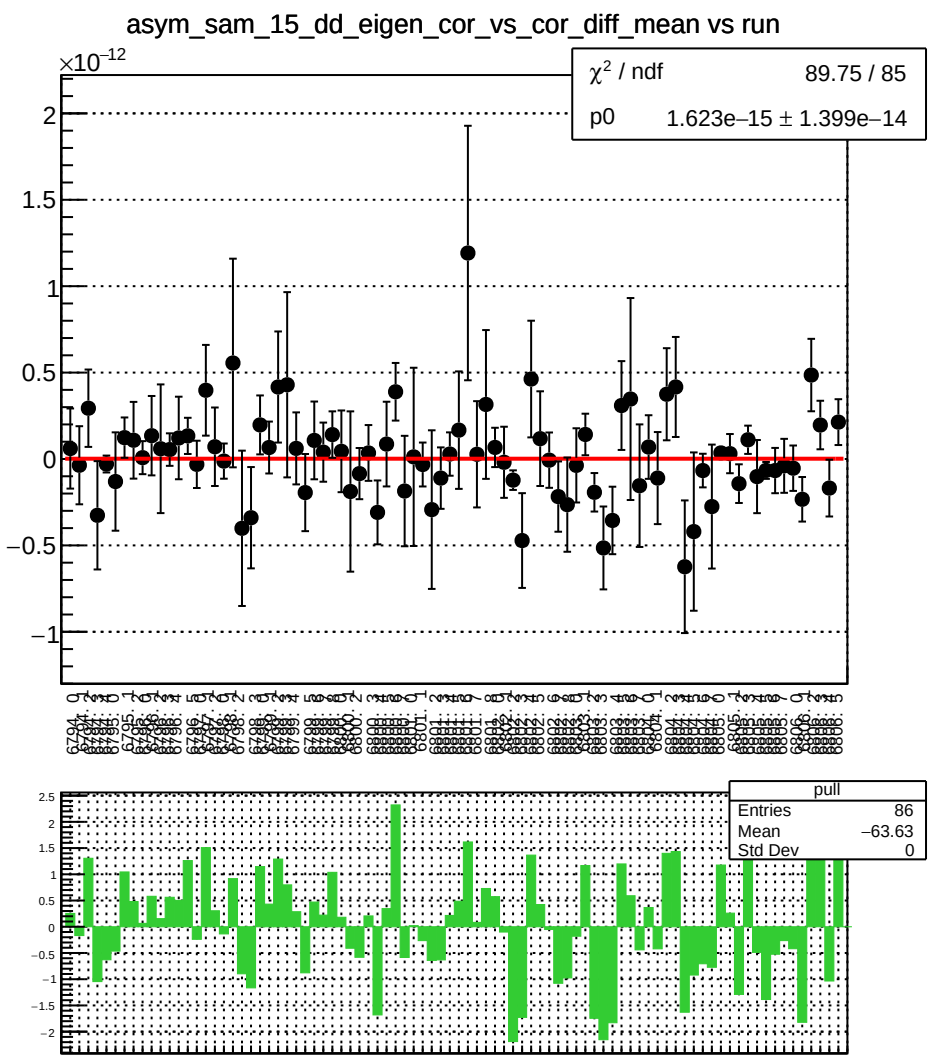

pull1D
Entries 86
Mean −0.01193
Std Dev 0.964

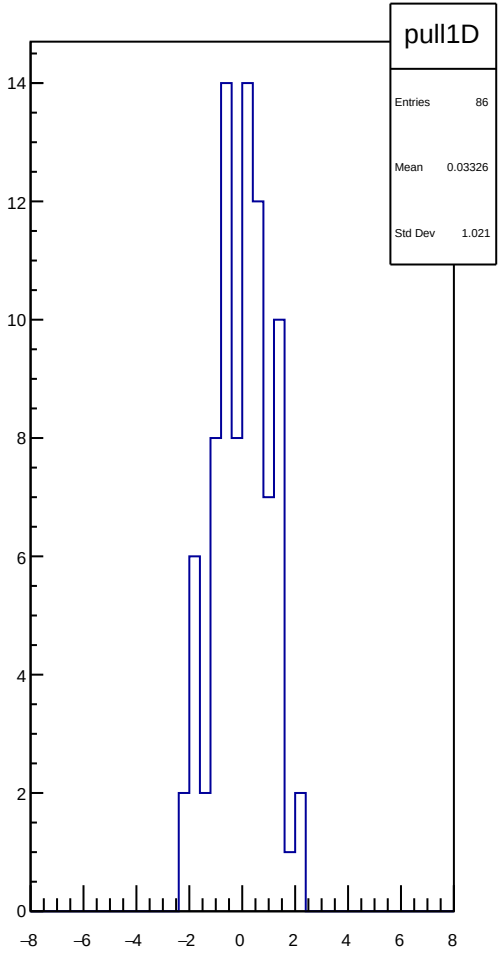

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.706e+04 / 85
p0 48.18 ± 0.03733
60
55
50
45
40
35

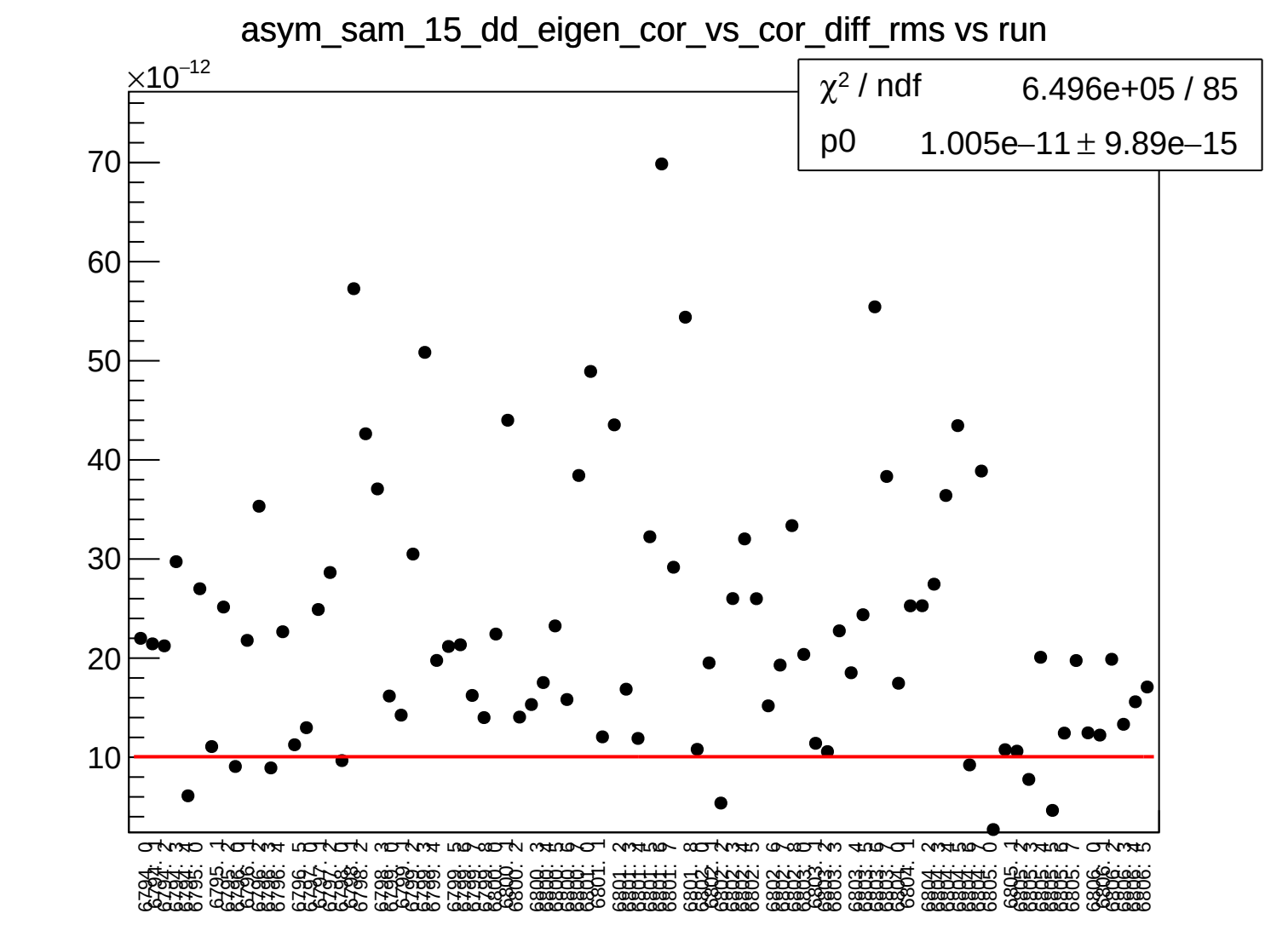

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.92 / 85
p0 0.05605 ± 0.0528
pull
Entries 86
Mean 72.67
Std Dev 77.43

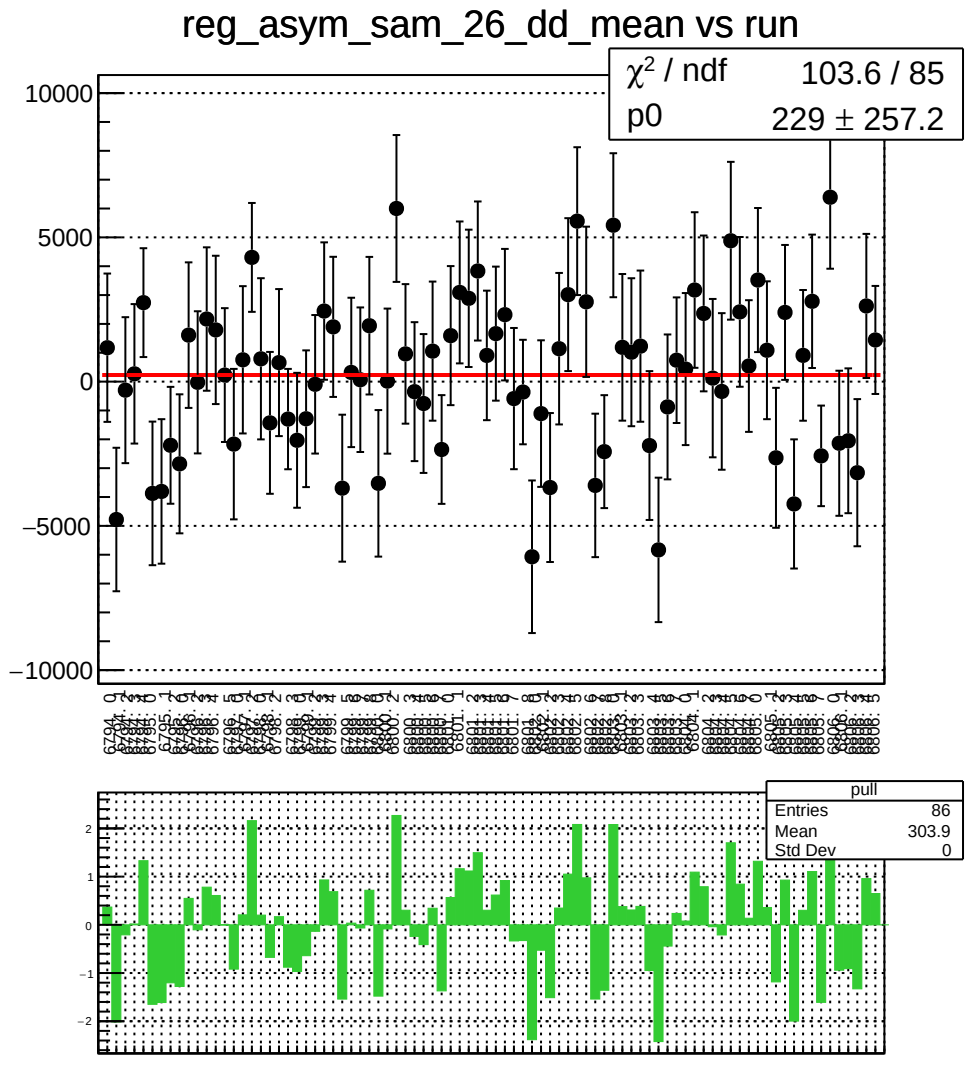

pull1D
Entries 86
Mean −0.01193
Std Dev 0.964

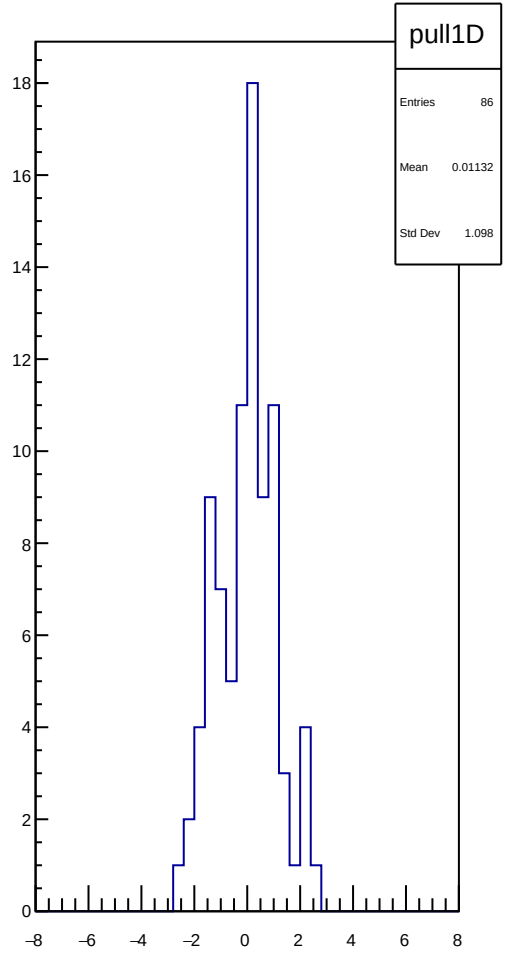

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.706e+04 / 85
p0 48.18 ± 0.03733
60
55
50
45
40
35

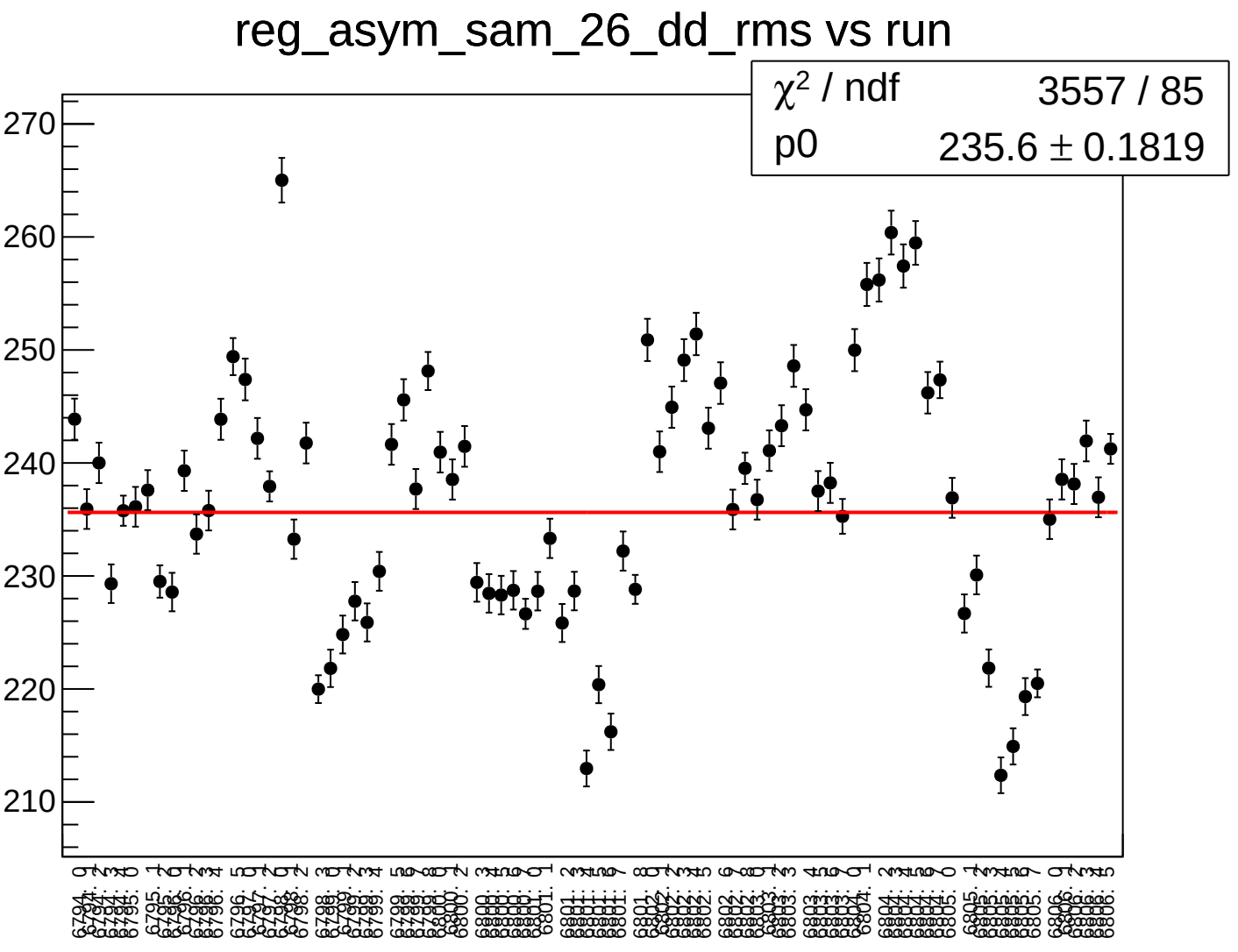

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.75 / 85
p0 1.623e−15 ± 1.399e−14
pull
Entries 86
Mean −63.63
Std Dev 0

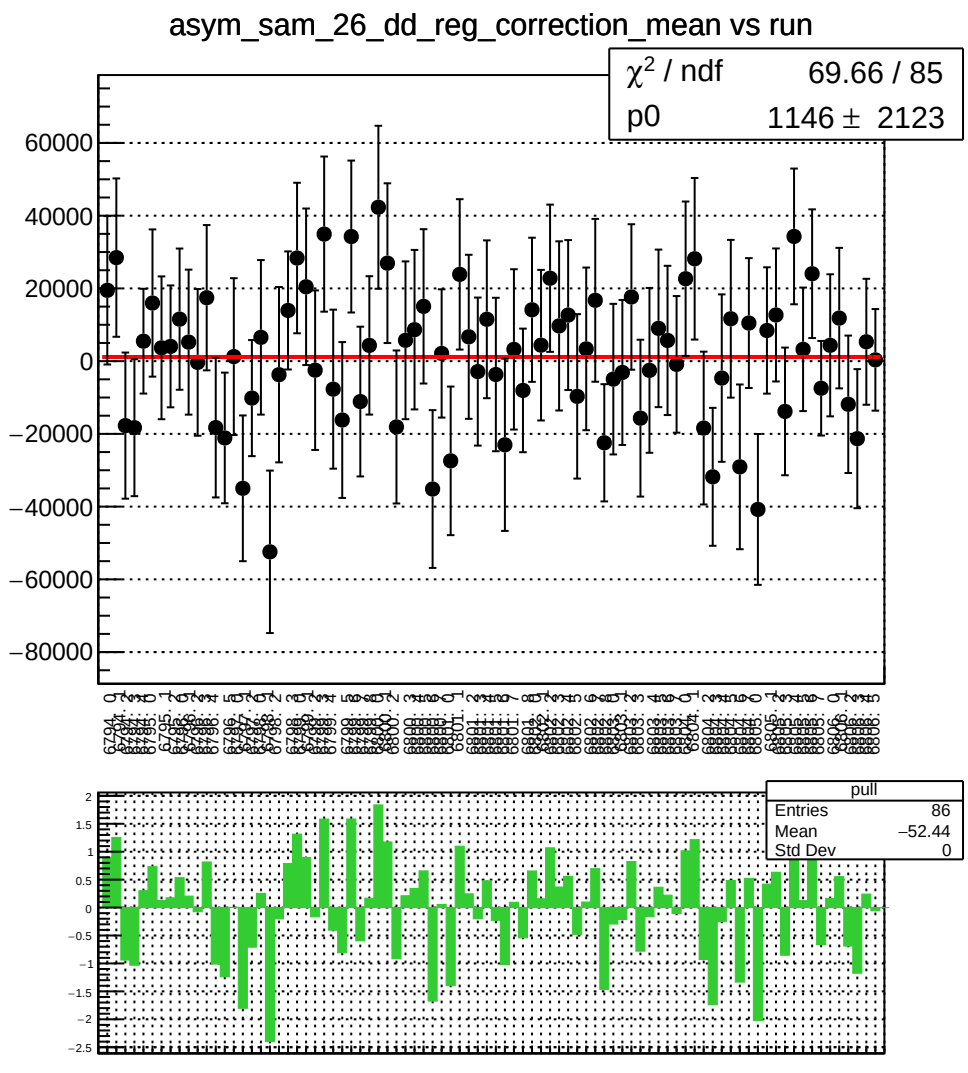

pull1D
Entries 86
Mean 0.03326
Std Dev 1.021

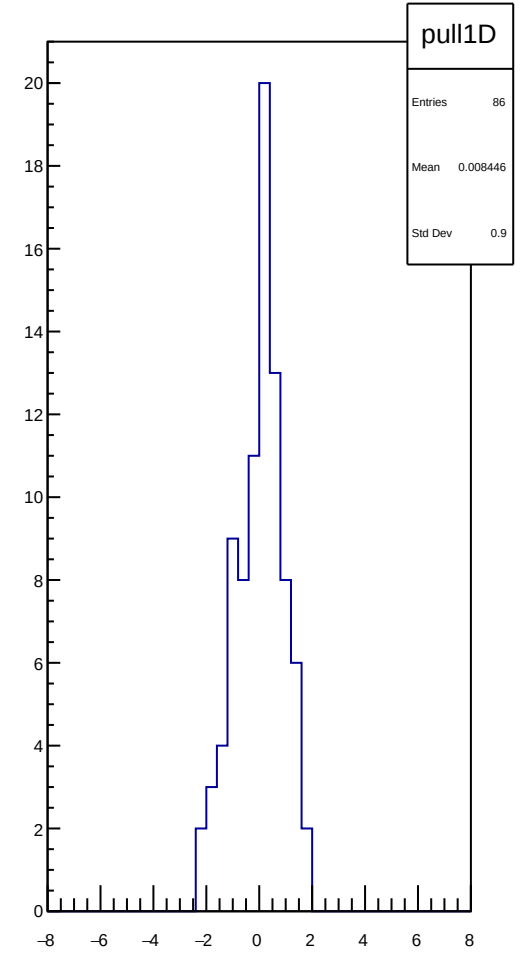

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.496e+05 / 85
p0 1.005e−11 ± 9.89e−15
70
60
50
40
30
20
10

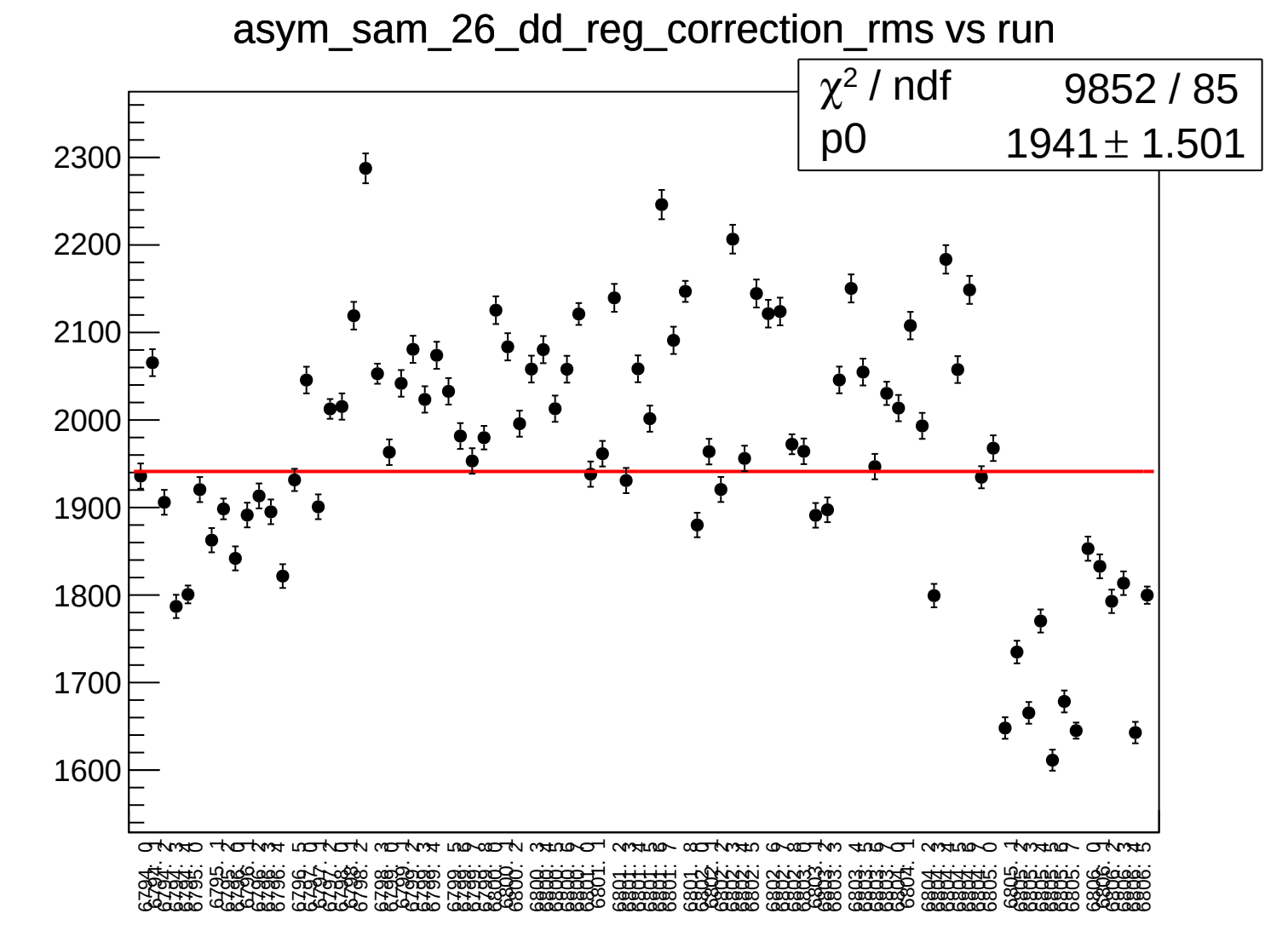

reg_asym_sam_26_dd_mean vs run
χ² / ndf 103.6 / 85
p0 229 ± 257.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 303.9
Std Dev 0
2
1
0
−1
−2

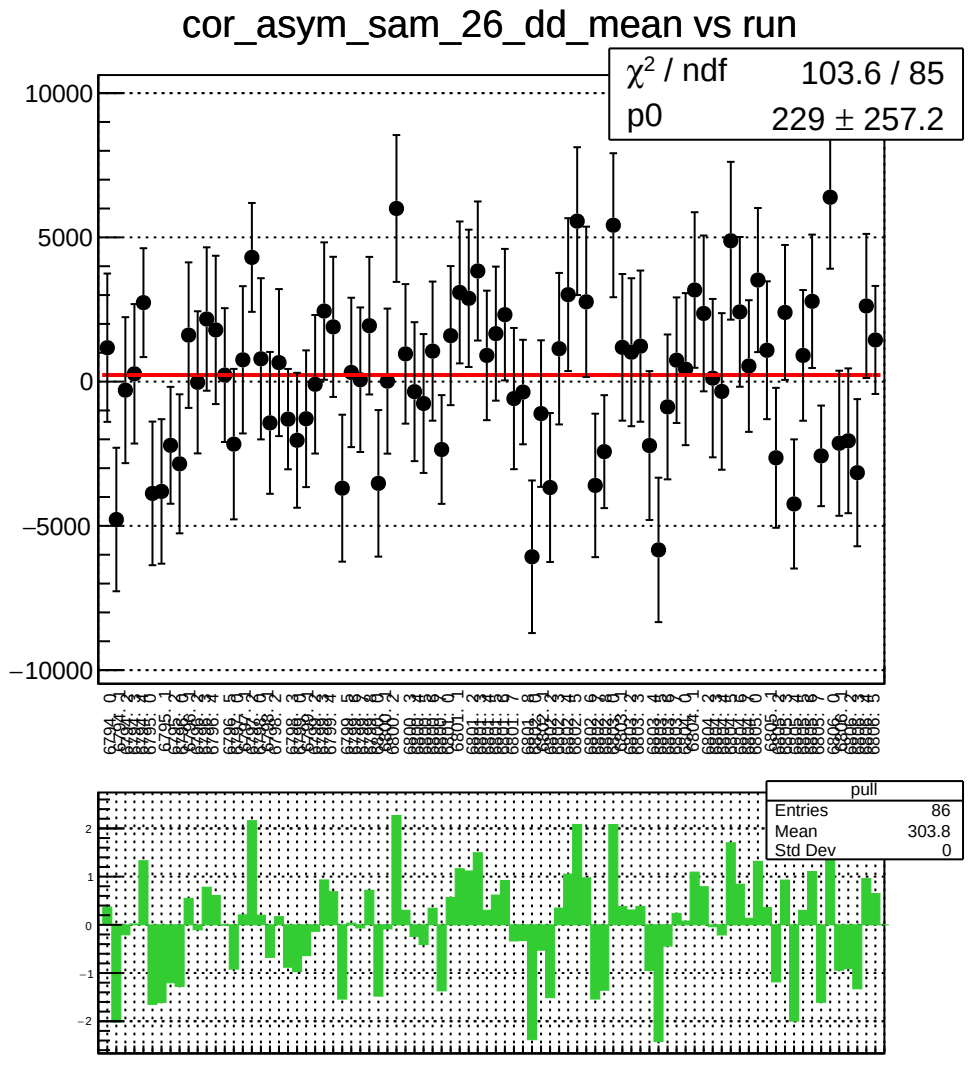

pull1D
Entries 86
Mean 0.01132
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

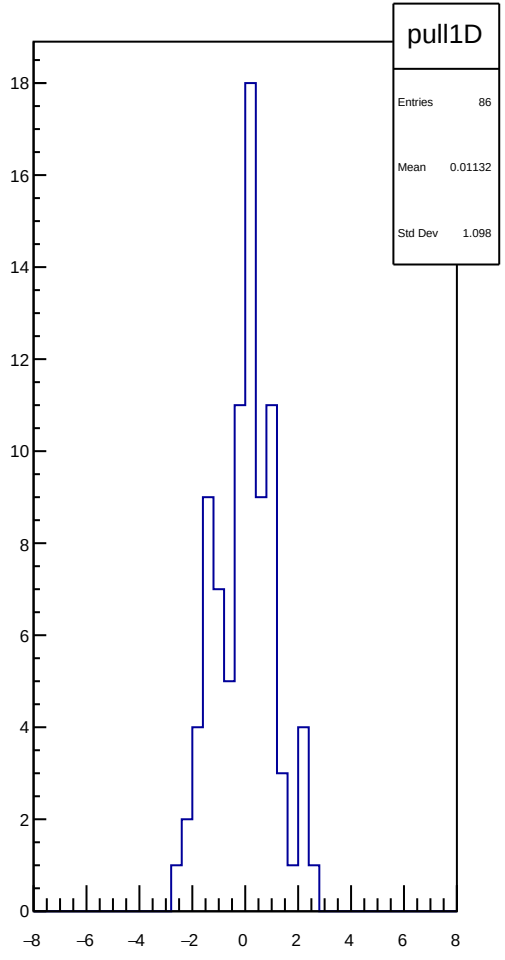

reg_asym_sam_26_dd_rms vs run
χ² / ndf 3557 / 85
p0 235.6 ± 0.1819
270
260
250
240
230
220
210

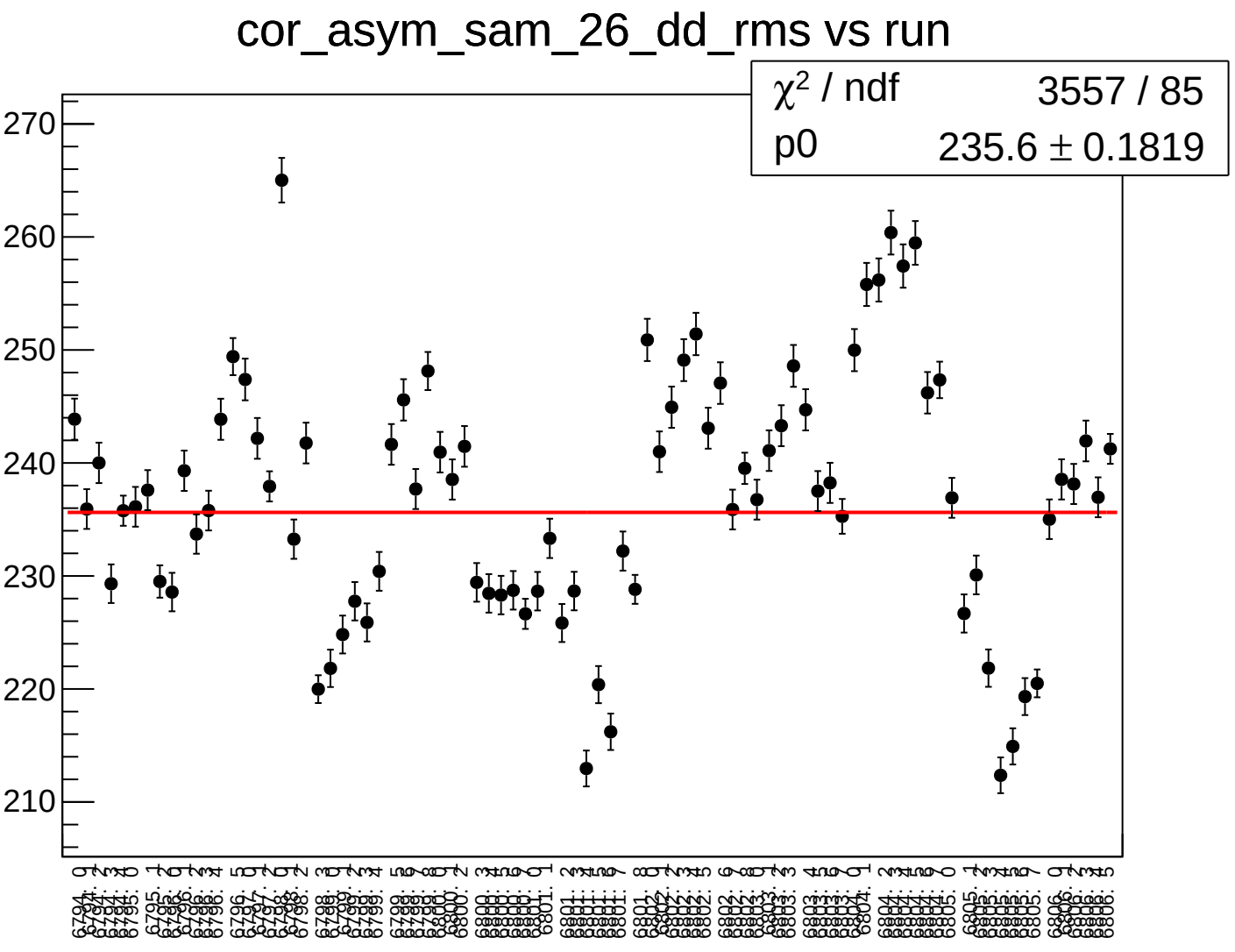

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 69.66 / 85
p0 1146 ± 2123
pull
Entries 86
Mean −52.44
Std Dev 0

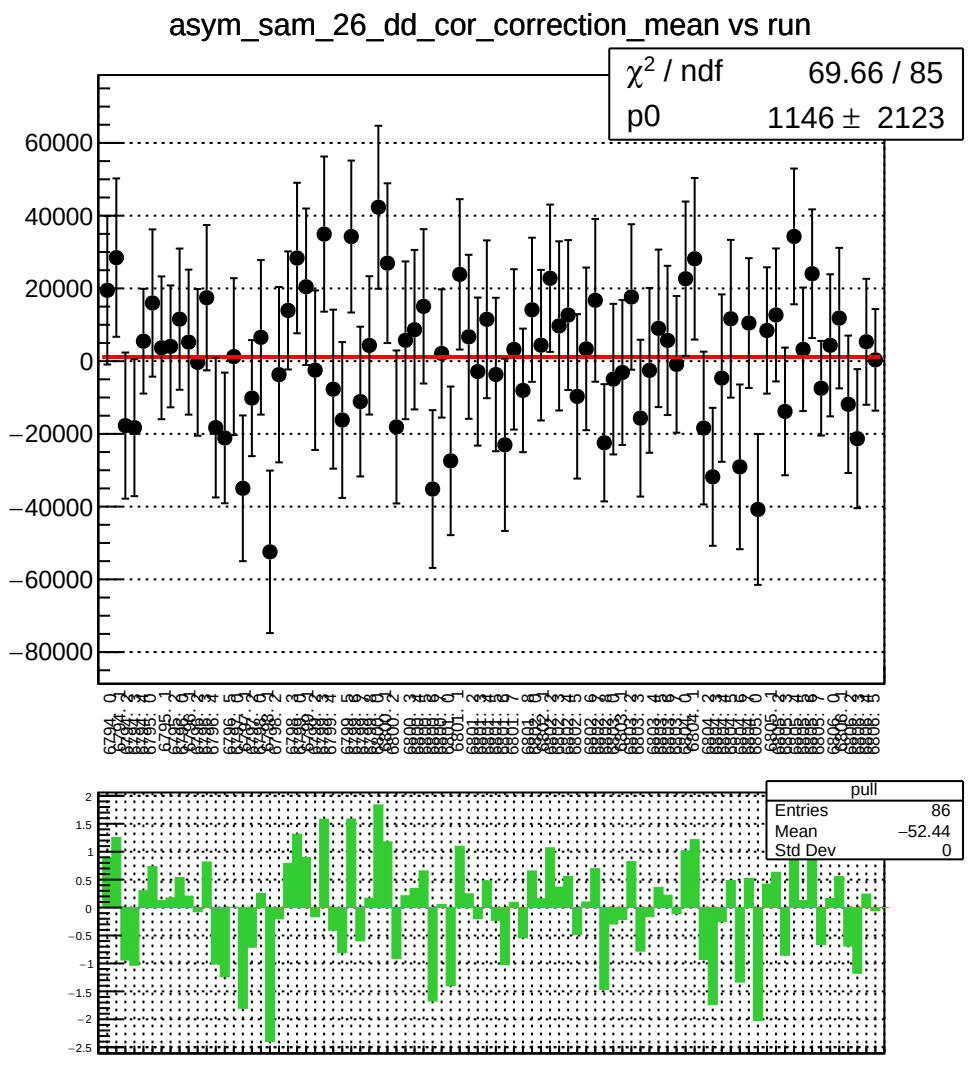

pull1D
Entries 86
Mean 0.008446
Std Dev 0.9

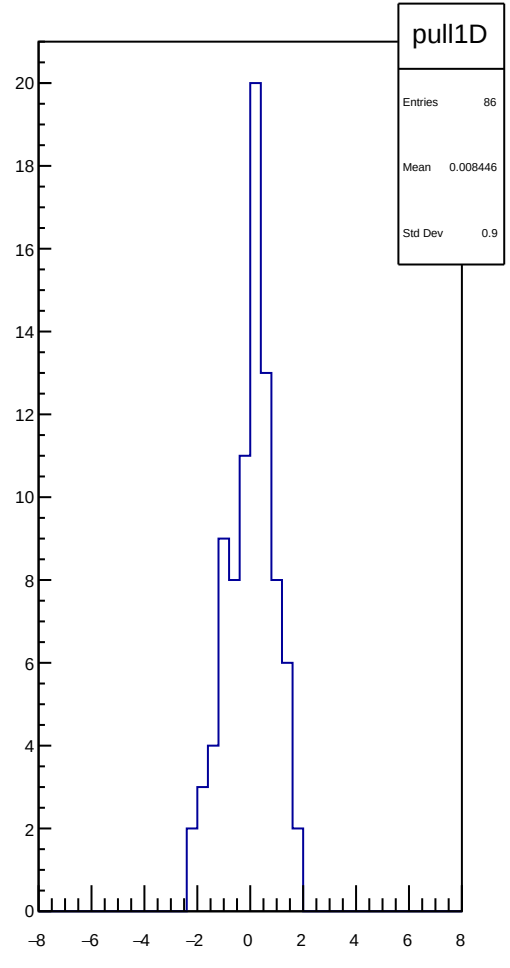

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 9852 / 85
p0 1941 ± 1.501
2300
2200
2100
2000
1900
1800
1700
1600

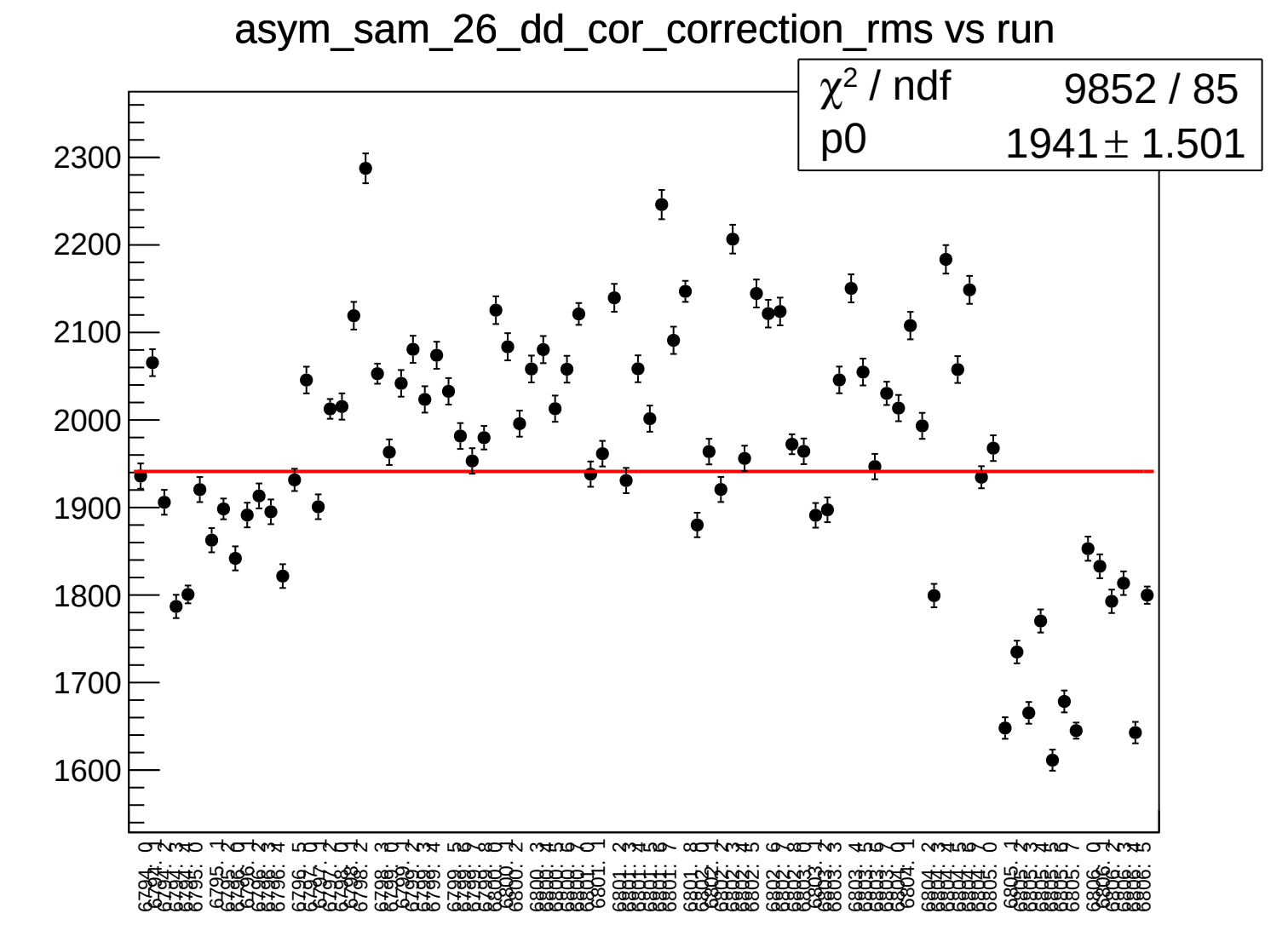

cor_asym_sam_26_dd_mean vs run
χ² / ndf 103.6 / 85
p0 229 ± 257.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 303.8
Std Dev 0
2
1
0
−1
−2

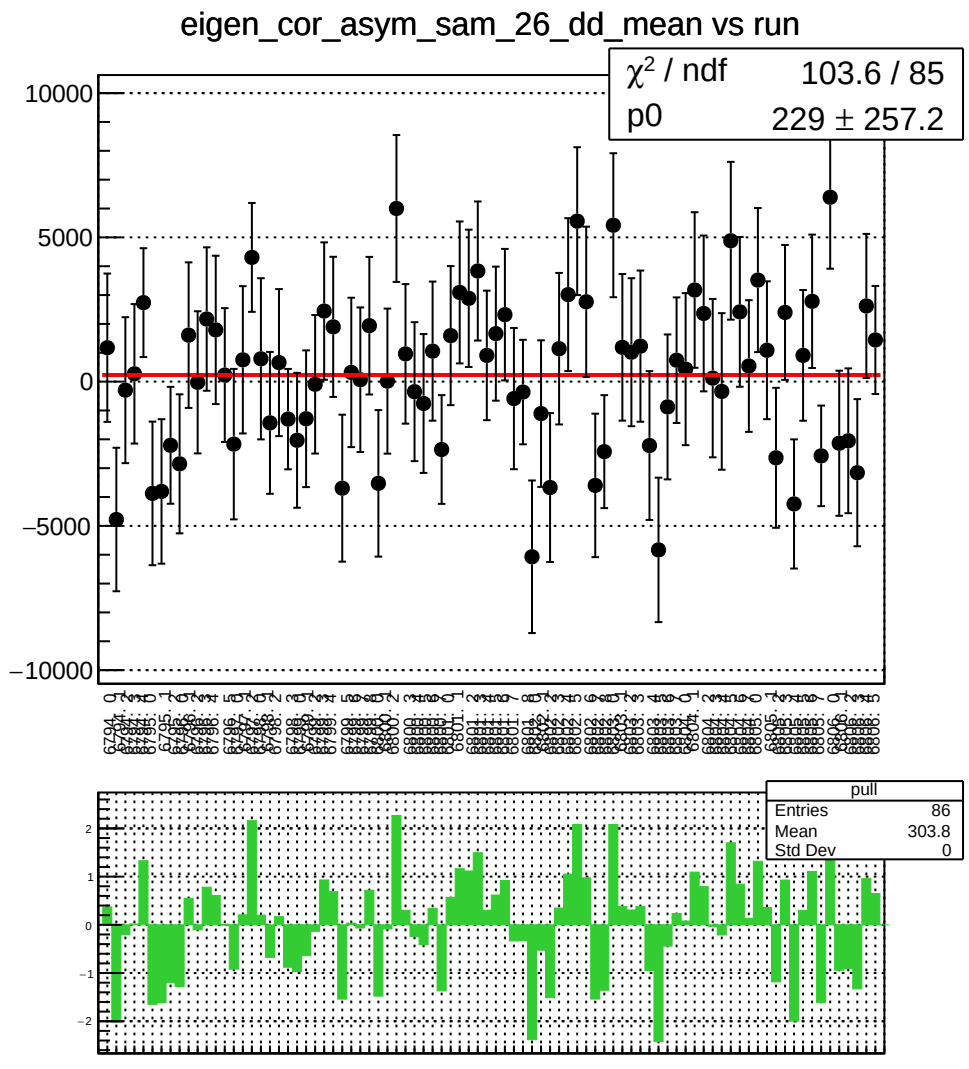

pull1D
Entries 86
Mean 0.01132
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

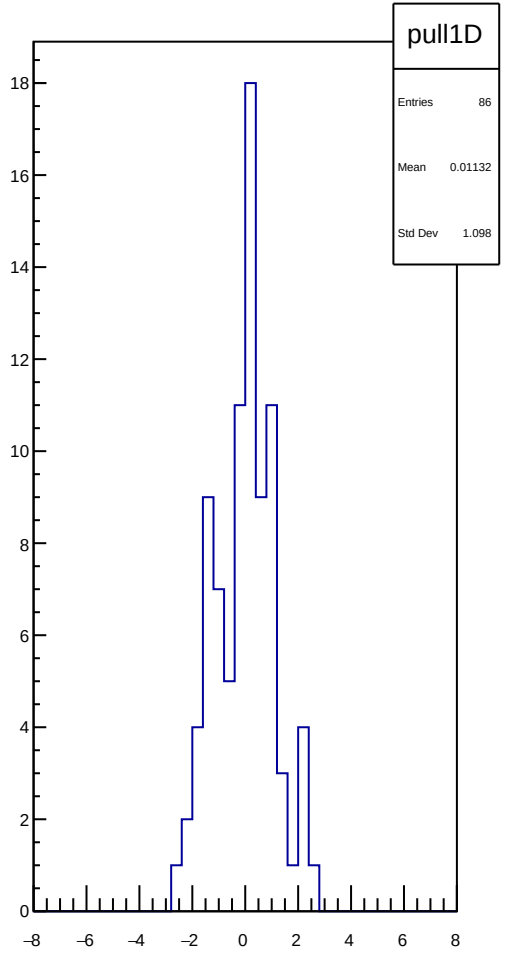

cor_asym_sam_26_dd_rms vs run
χ² / ndf 3557 / 85
p0 235.6 ± 0.1819
270
260
250
240
230
220
210

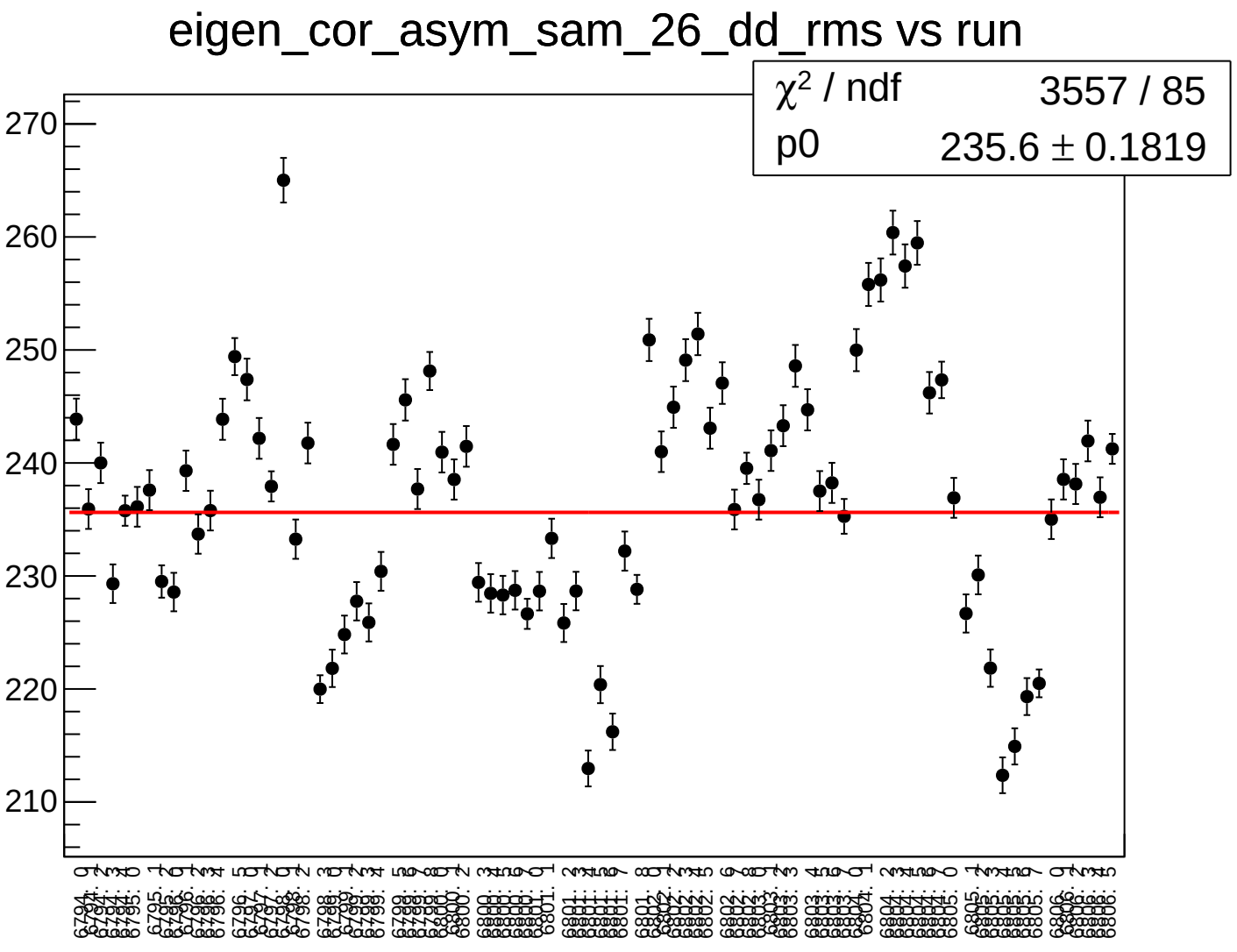

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 69.66 / 85
p0 1146 ± 2123
pull
Entries 86
Mean −52.44
Std Dev 0

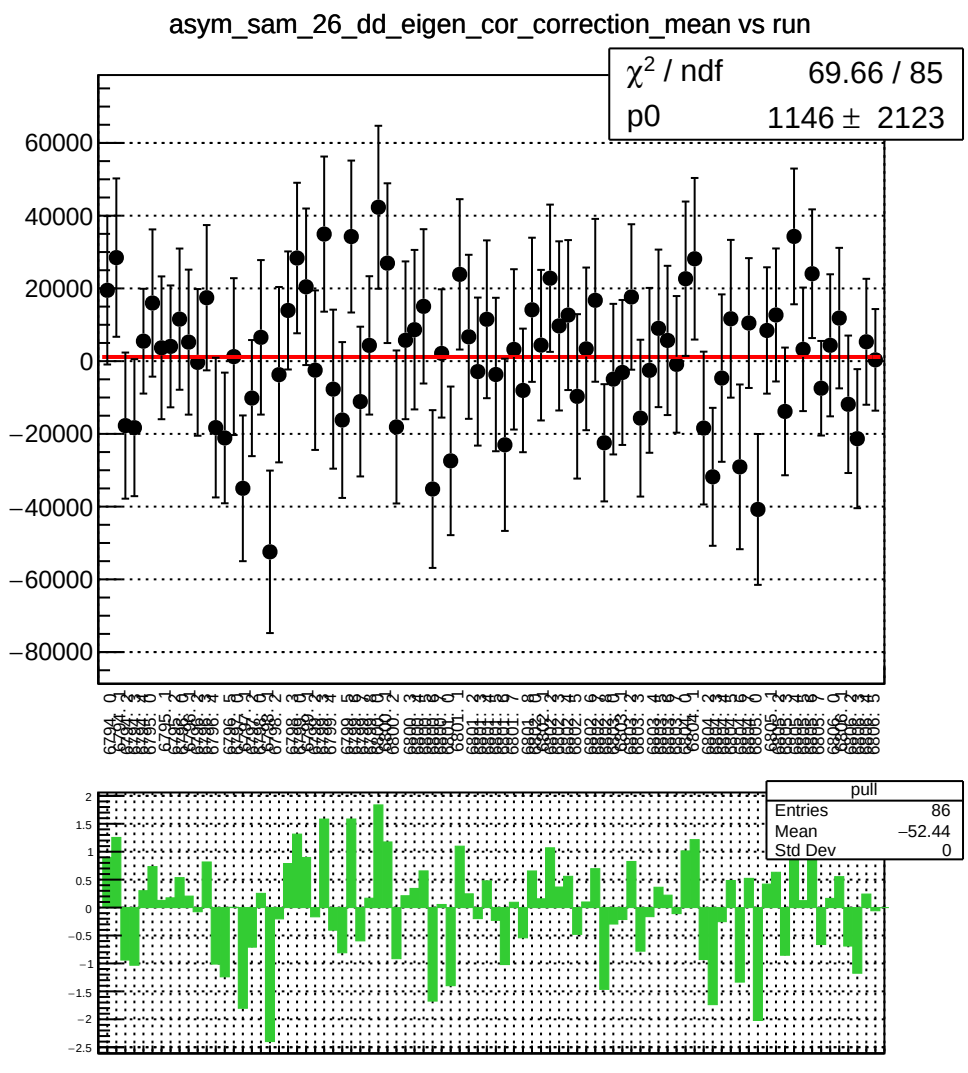

pull1D
Entries 86
Mean 0.008446
Std Dev 0.9

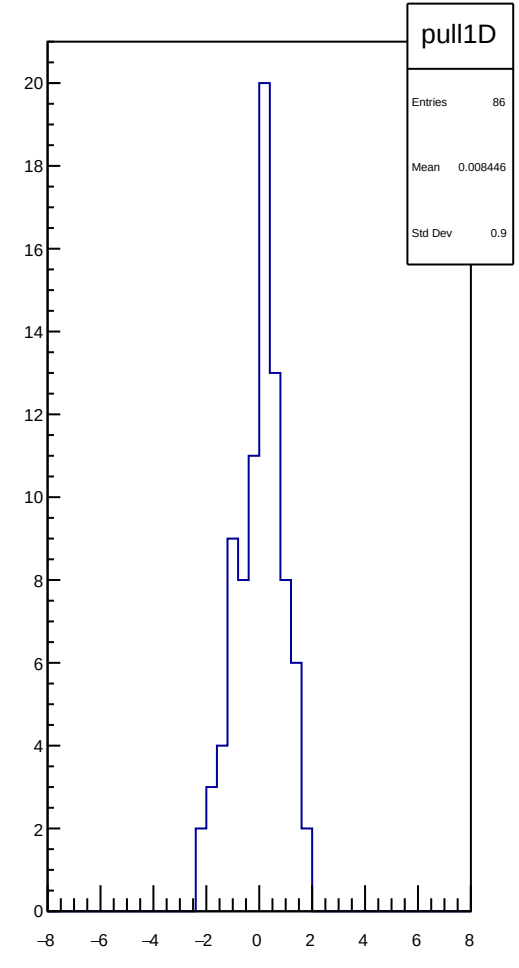

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 9852 / 85
p0 1941 ± 1.501
2300
2200
2100
2000
1900
1800
1700
1600

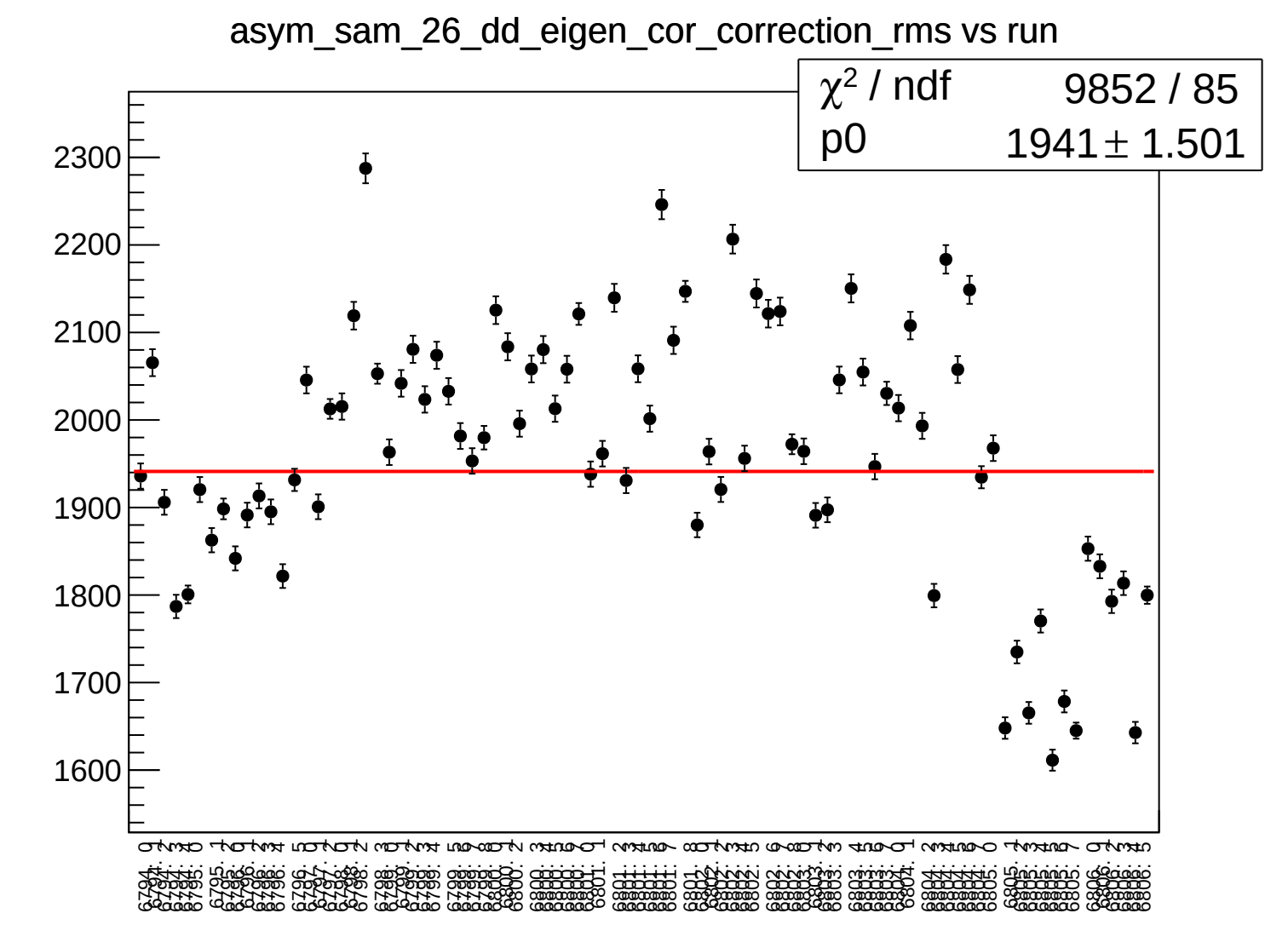

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 103.6 / 85
p0 229 ± 257.2
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 303.8
Std Dev 0
2
1
0
−1
−2

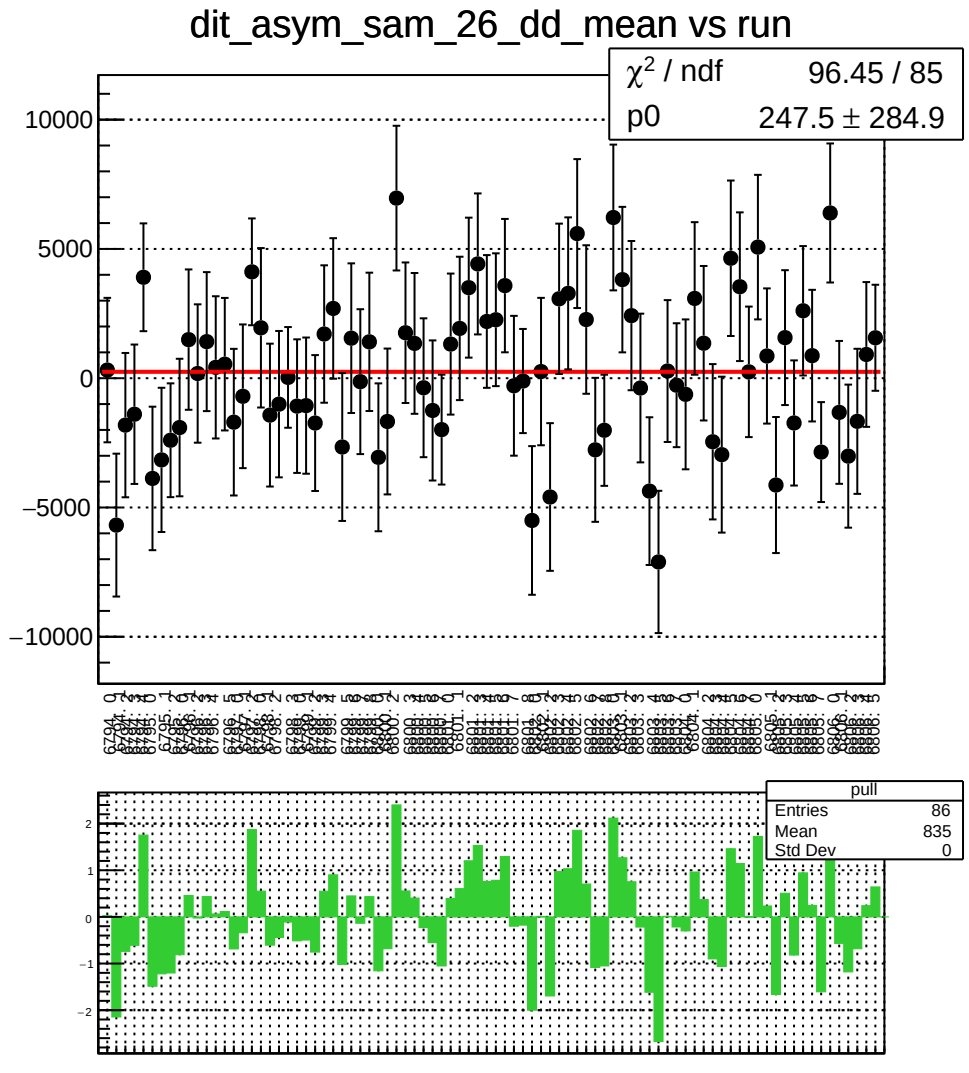

pull1D
Entries 86
Mean 0.01132
Std Dev 1.098
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

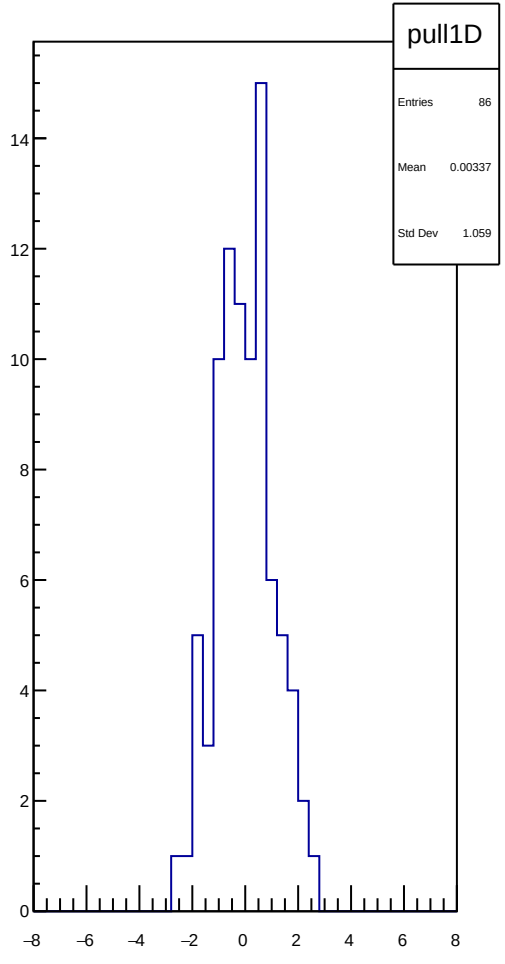

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 3557 / 85
p0 235.6 ± 0.1819
270
260
250
240
230
220
210

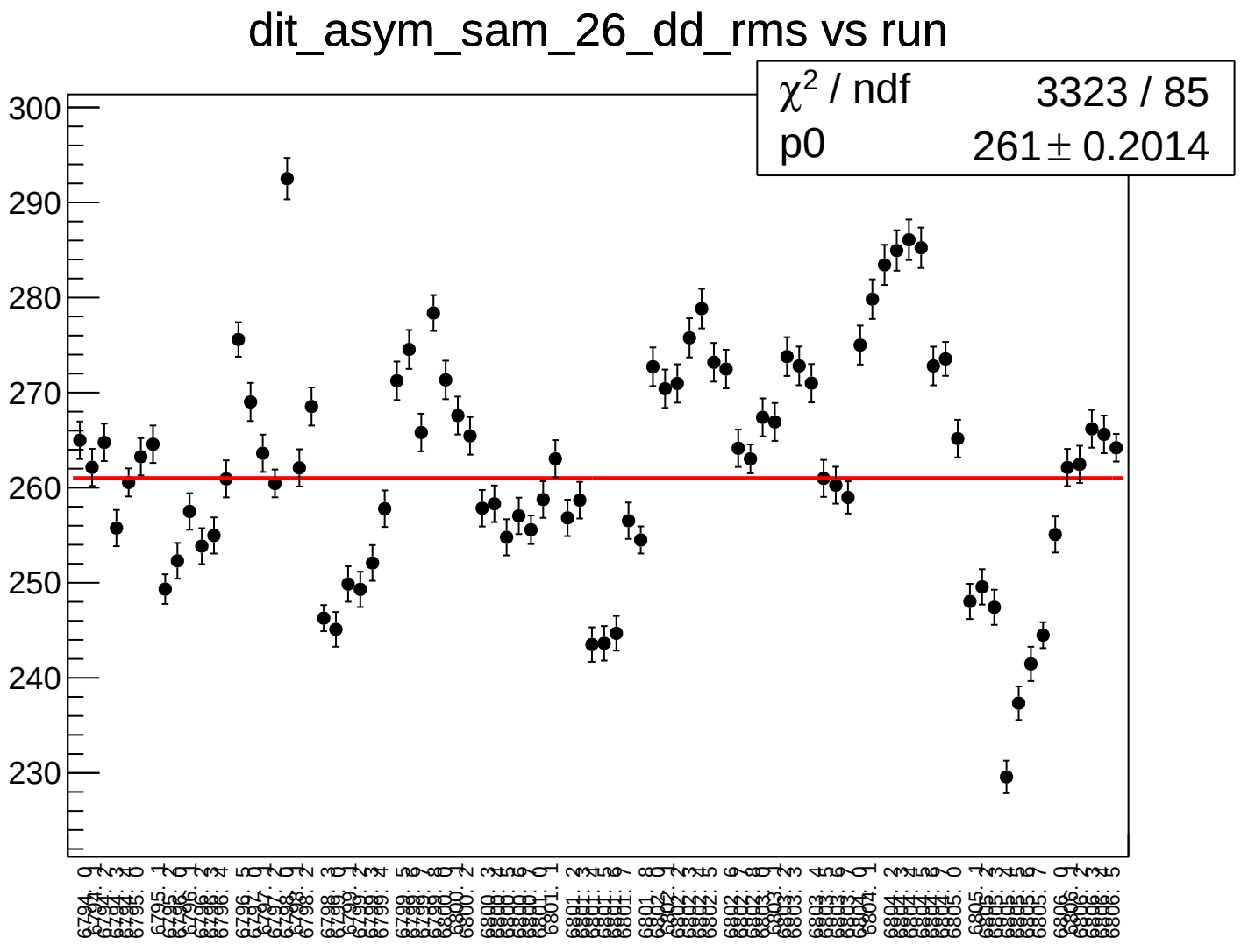

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.66 / 85
p0 1146 ± 2123
pull
Entries 86
Mean −52.44
Std Dev 0

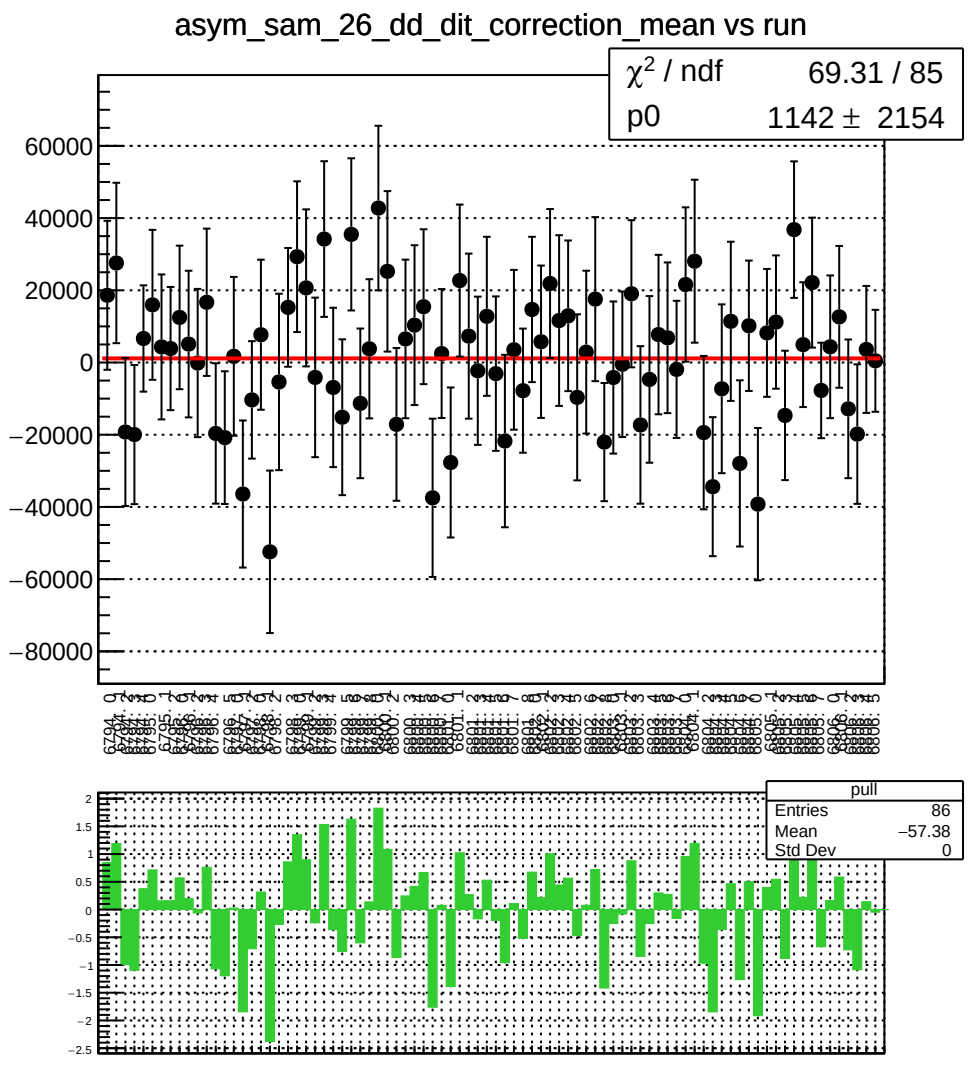

pull1D
Entries 86
Mean 0.008446
Std Dev 0.9

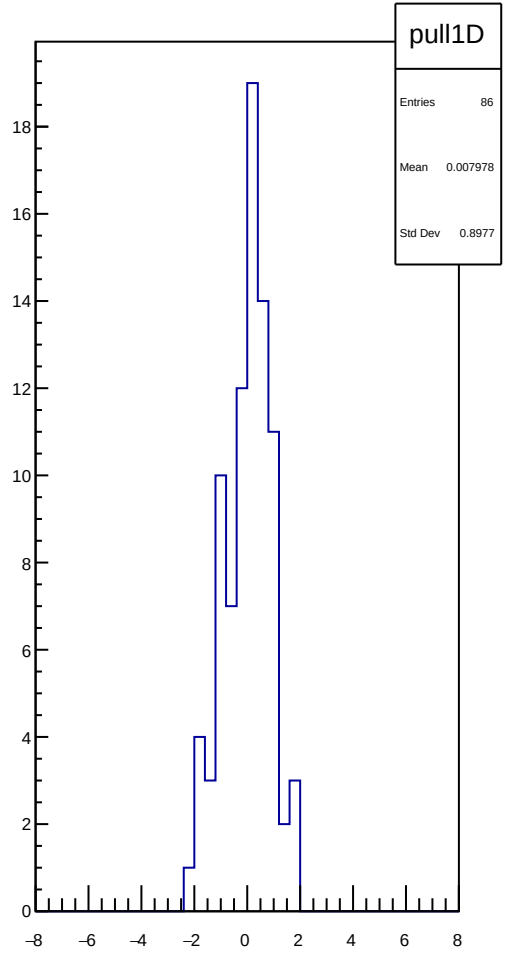

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 9852 / 85
p0 1941 ± 1.501
2300
2200
2100
2000
1900
1800
1700
1600

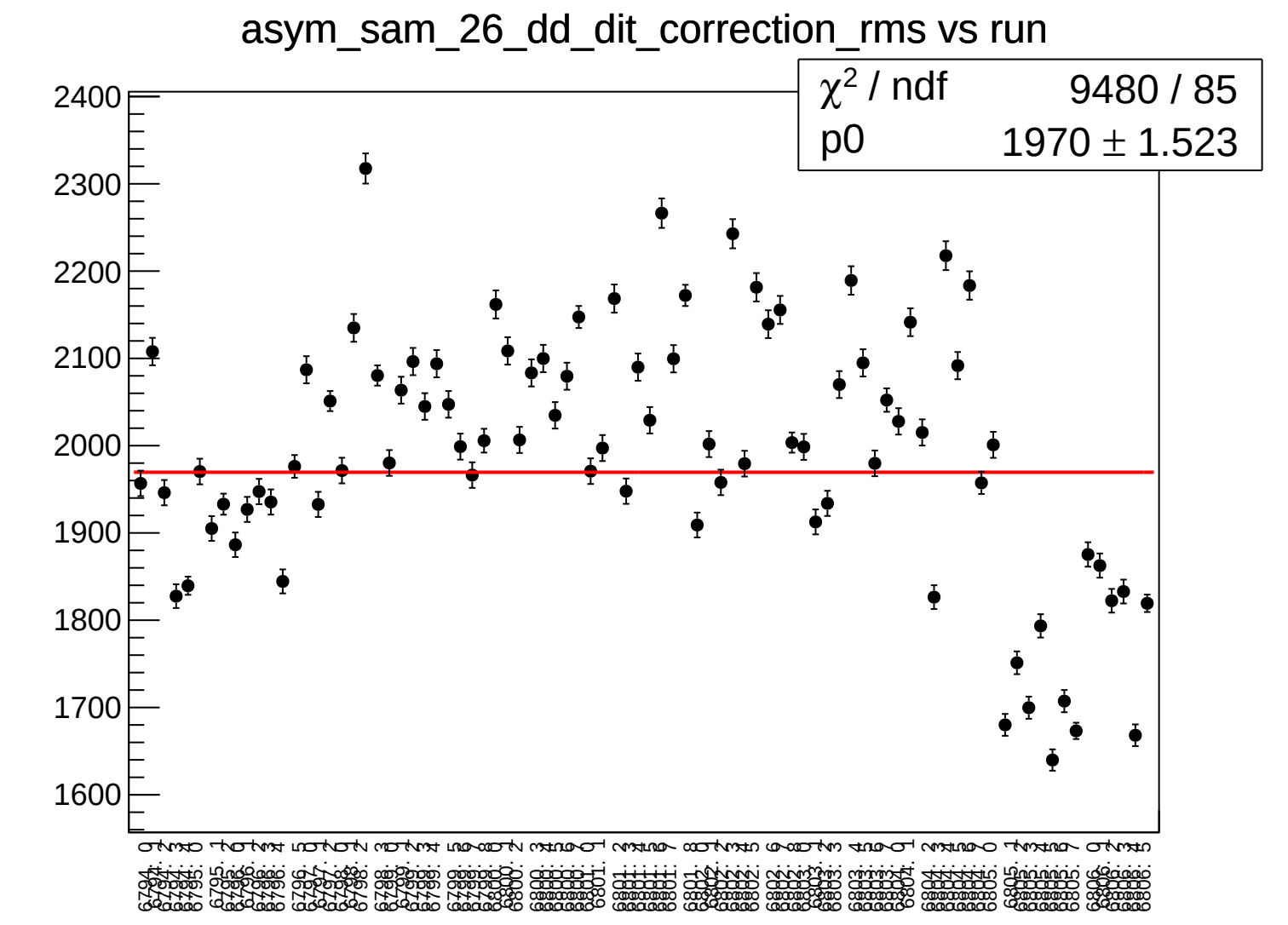

dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.45 / 85
p0 247.5 ± 284.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 835
Std Dev 0
2
1
0
−1
−2

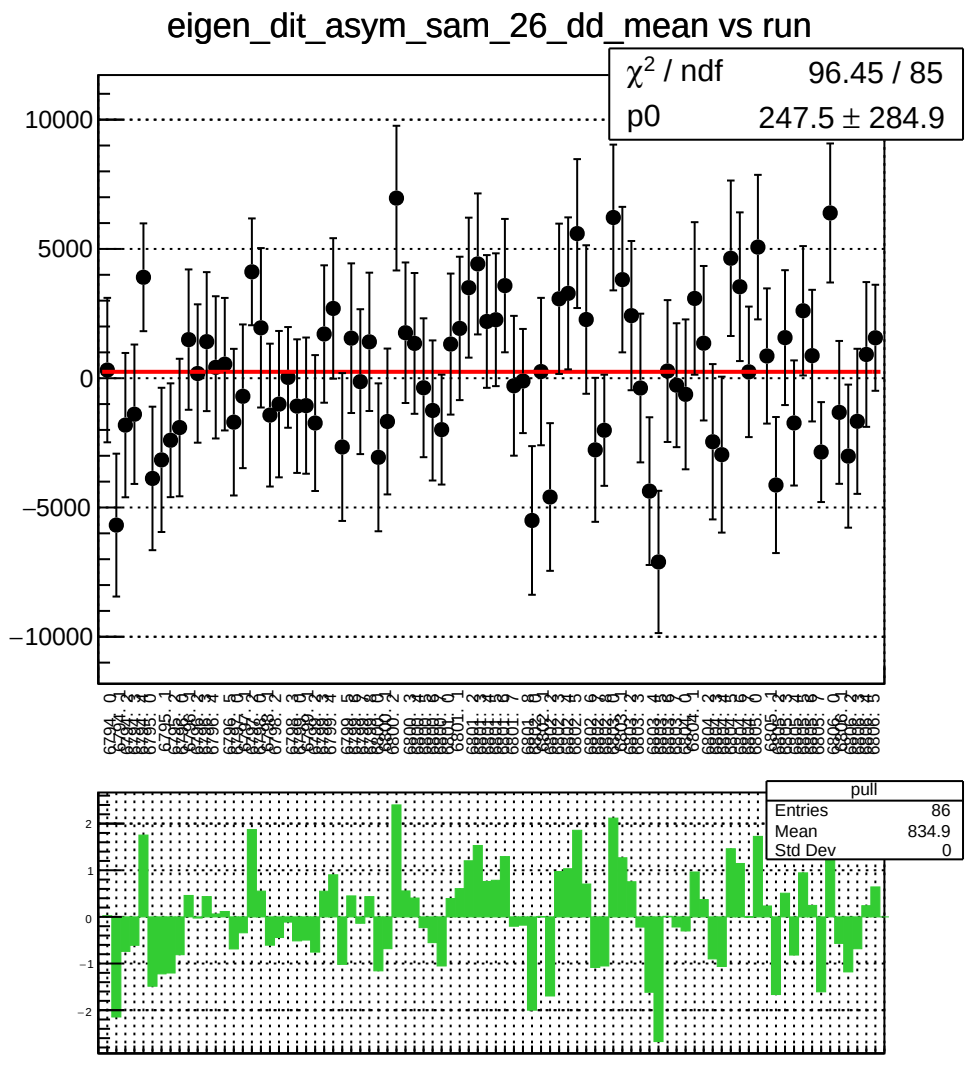

pull1D
Entries 86
Mean 0.00337
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

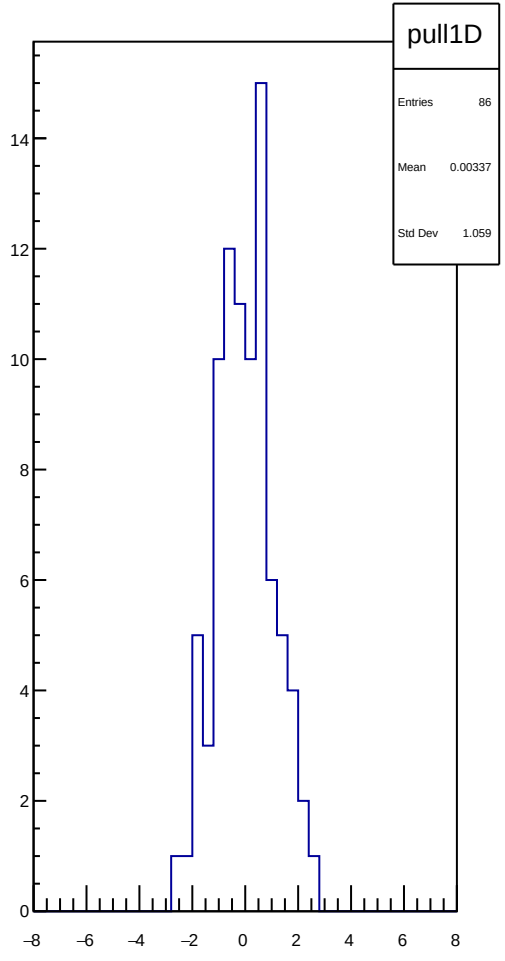

dit_asym_sam_26_dd_rms vs run
χ² / ndf 3323 / 85
p0 261 ± 0.2014
300
290
280
270
260
250
240
230

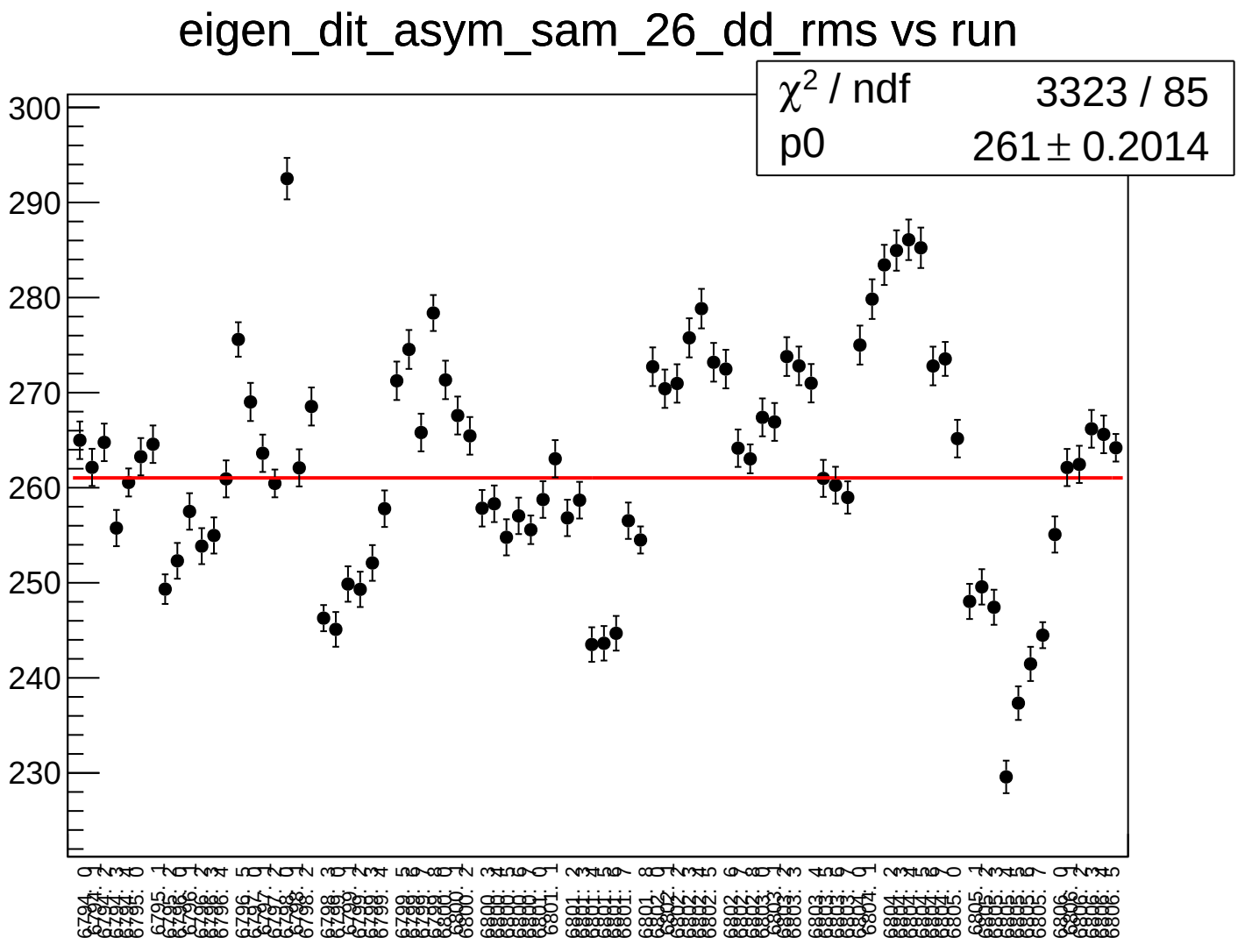

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 69.31 / 85
p0 1142 ± 2154
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 86
Mean −57.38
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

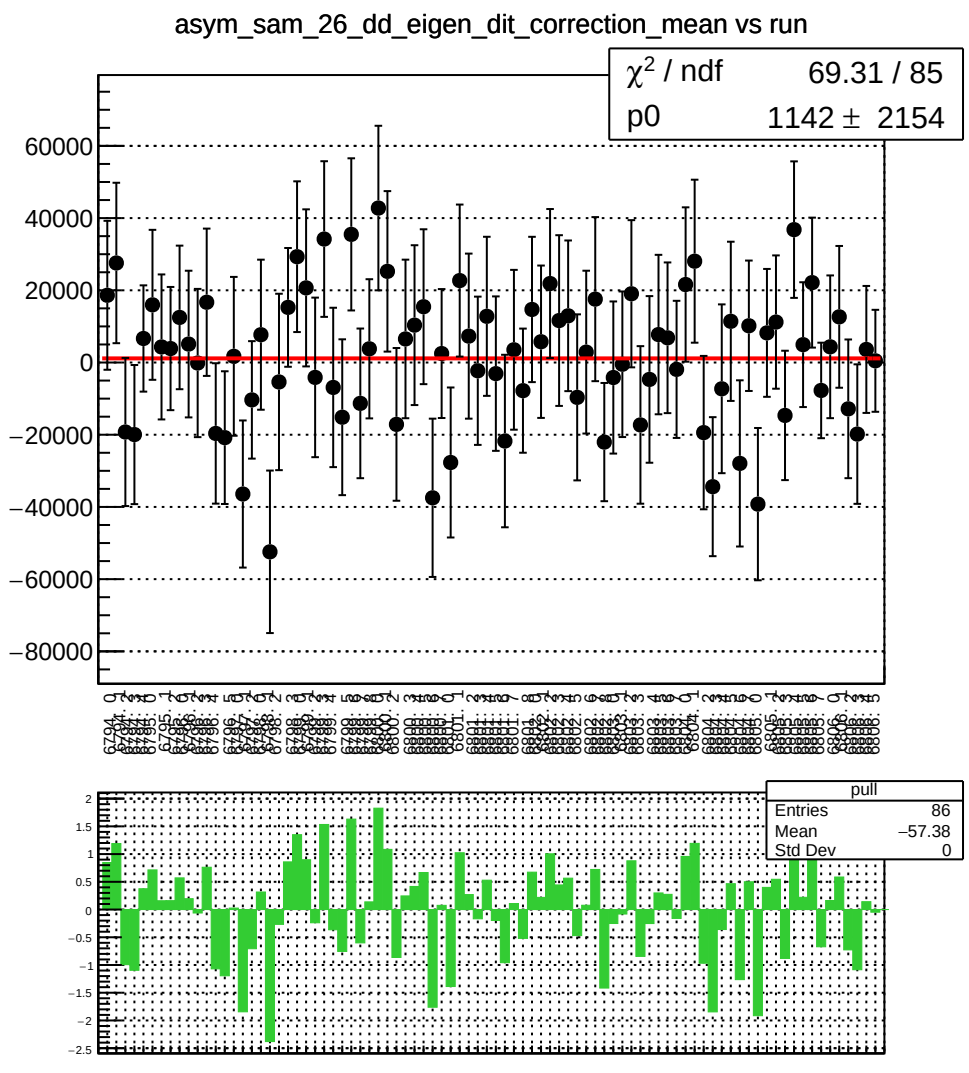

pull1D
Entries 86
Mean 0.007978
Std Dev 0.8977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

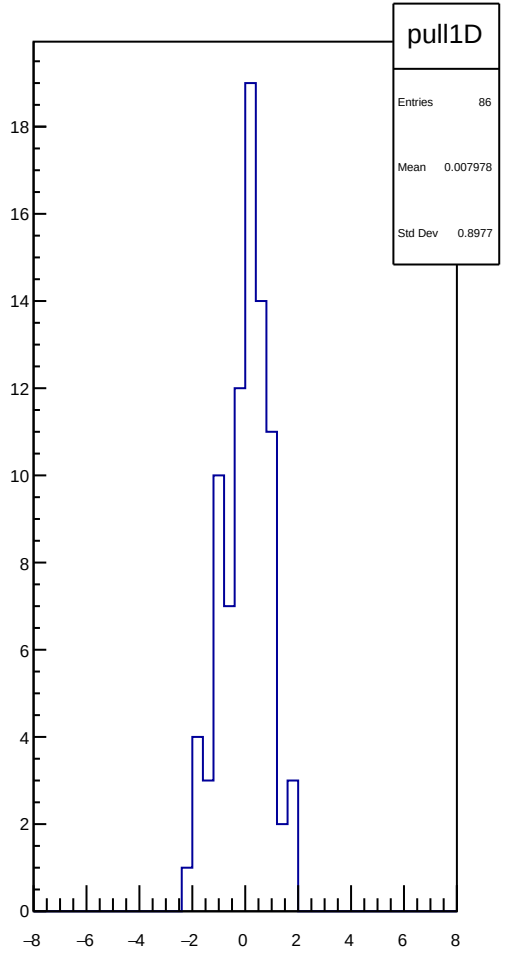

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 9480 / 85
p0 1970 ± 1.523
2400
2300
2200
2100
2000
1900
1800
1700
1600

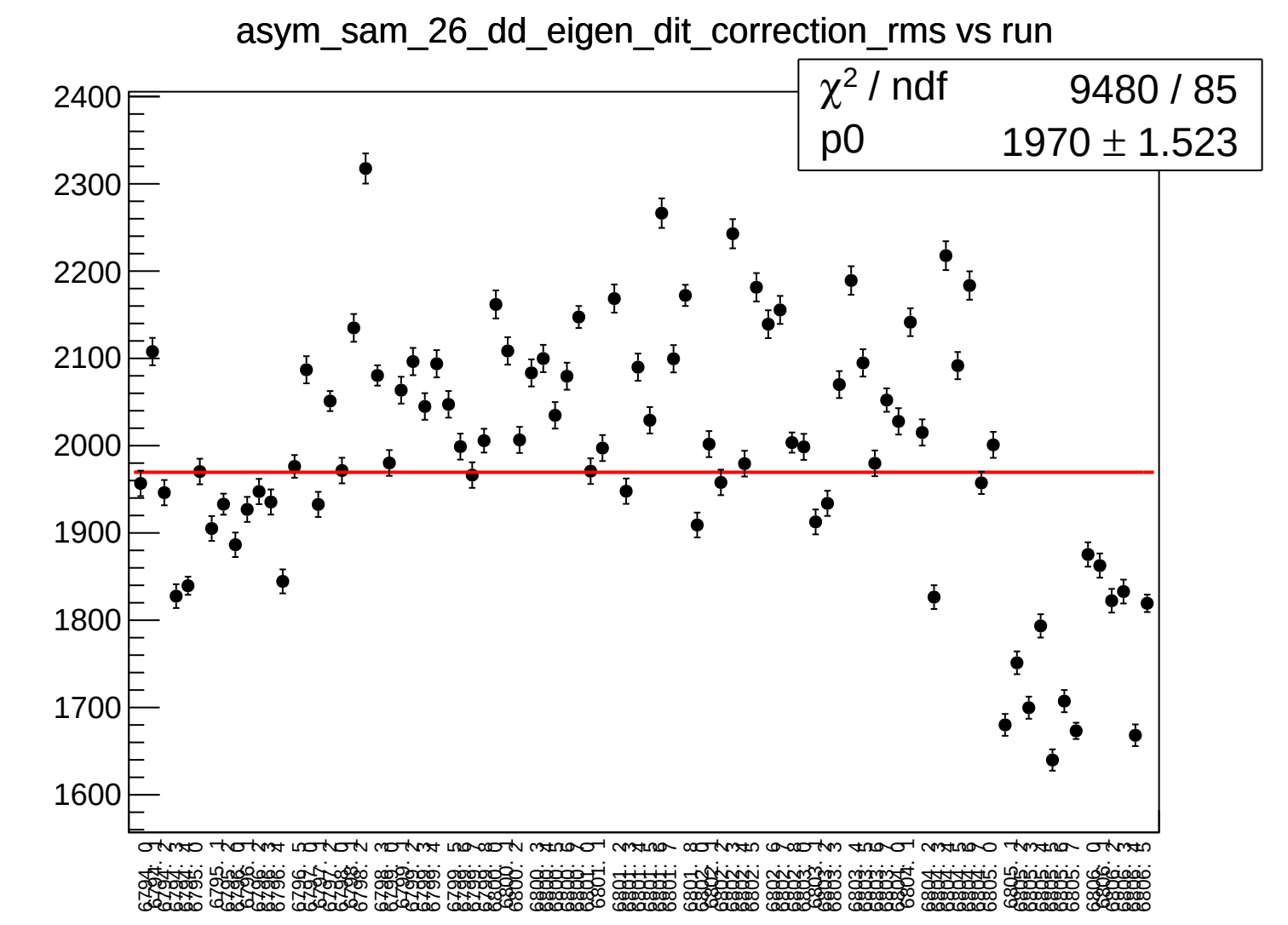

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 96.45 / 85
p0 247.5 ± 284.9
10000
5000
0
−5000
−10000
pull
Entries 86
Mean 834.9
Std Dev 0
2
1
0
−1
−2

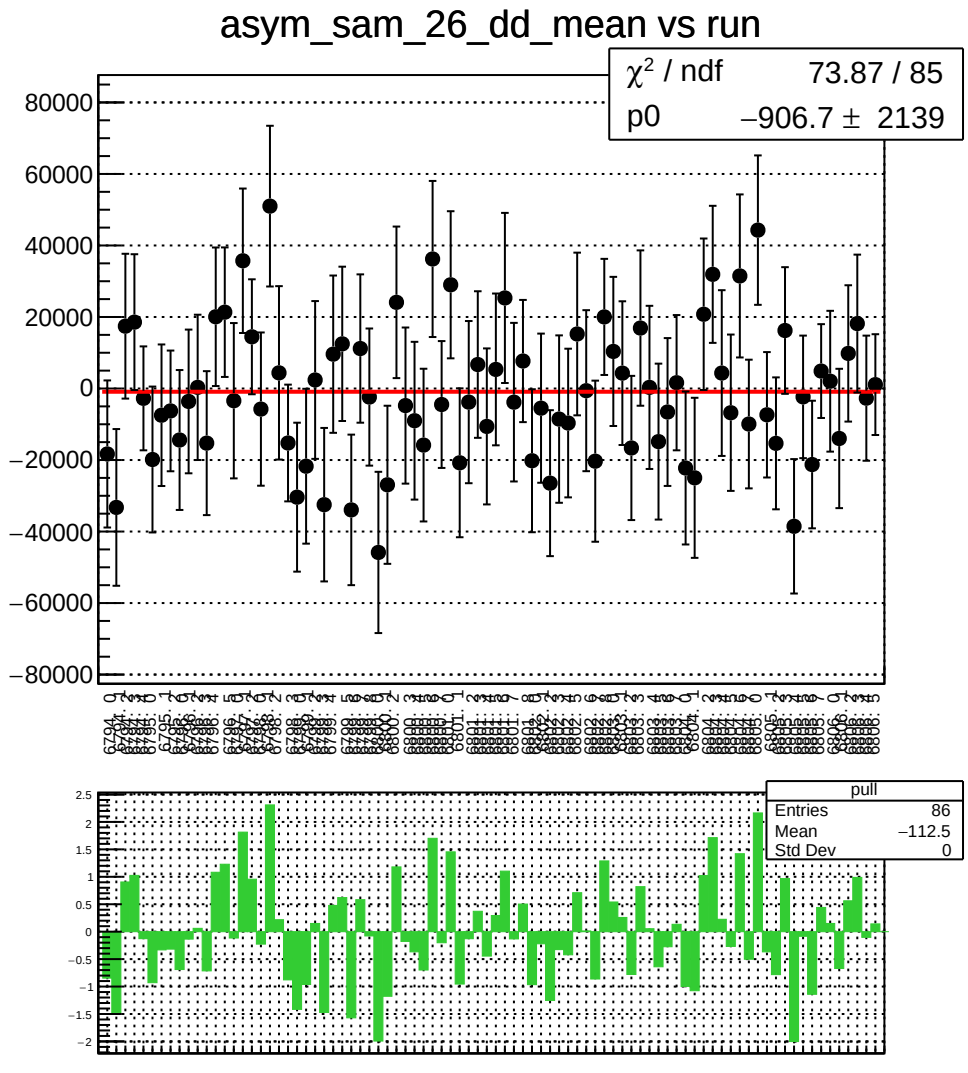

pull1D
Entries 86
Mean 0.00337
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

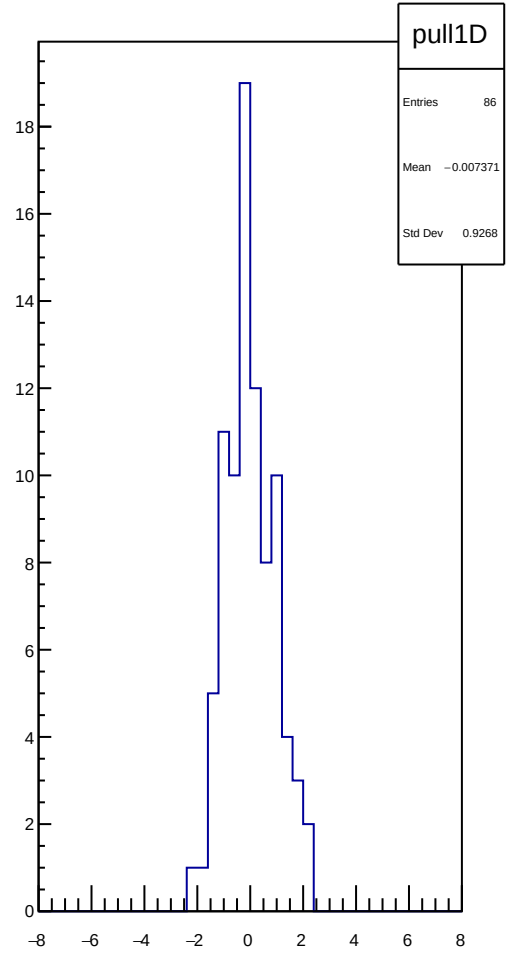

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 3323 / 85
p0 261 ± 0.2014
300
290
280
270
260
250
240
230

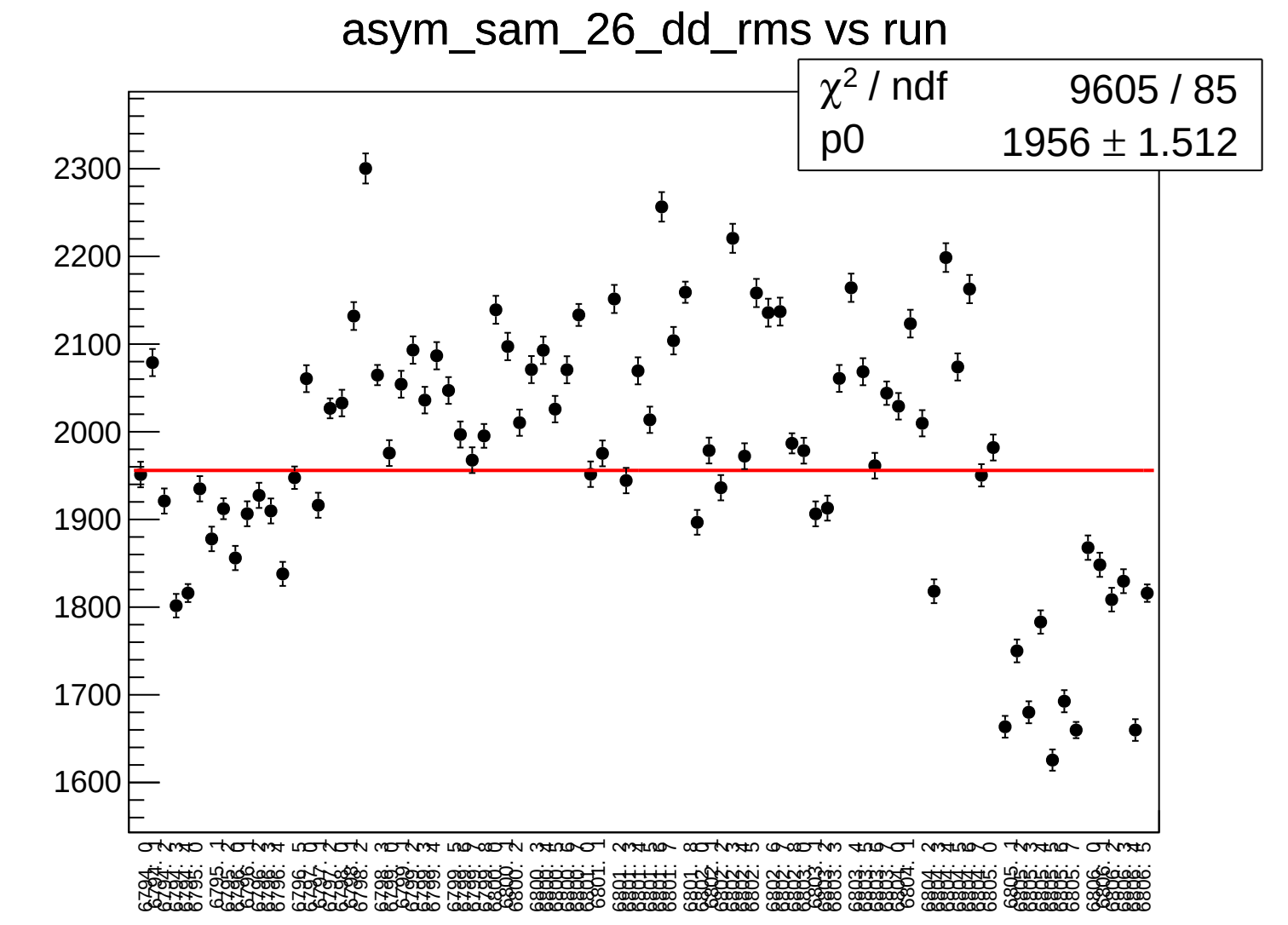

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.31 / 85
p0 1142 ± 2154
pull
Entries 86
Mean −57.38
Std Dev 0

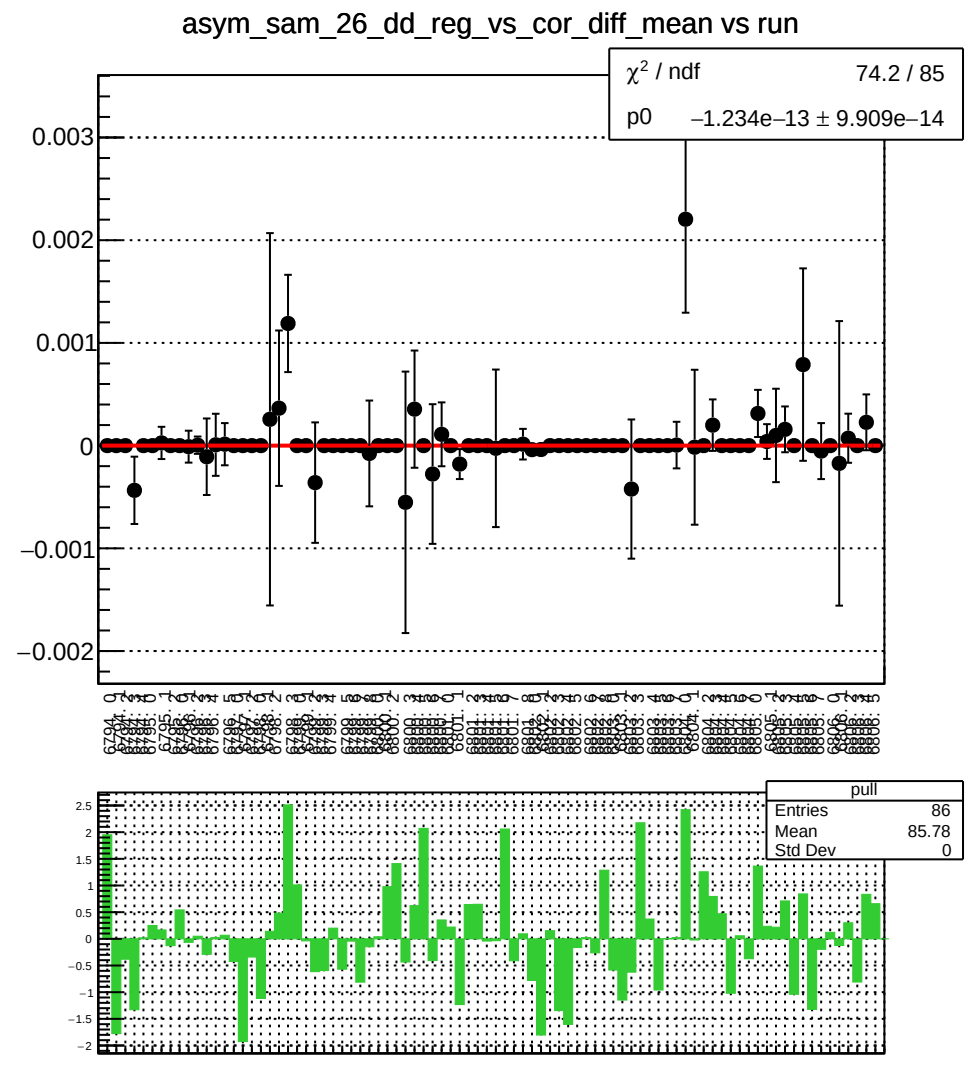

pull1D
Entries 86
Mean 0.007978
Std Dev 0.8977

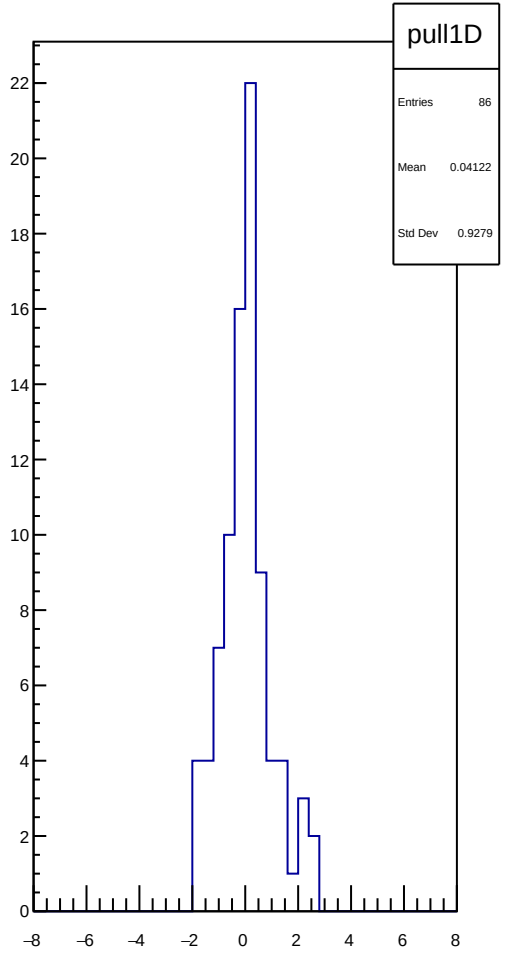

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 9480 / 85
p0 1970 ± 1.523
2400
2300
2200
2100
2000
1900
1800
1700
1600

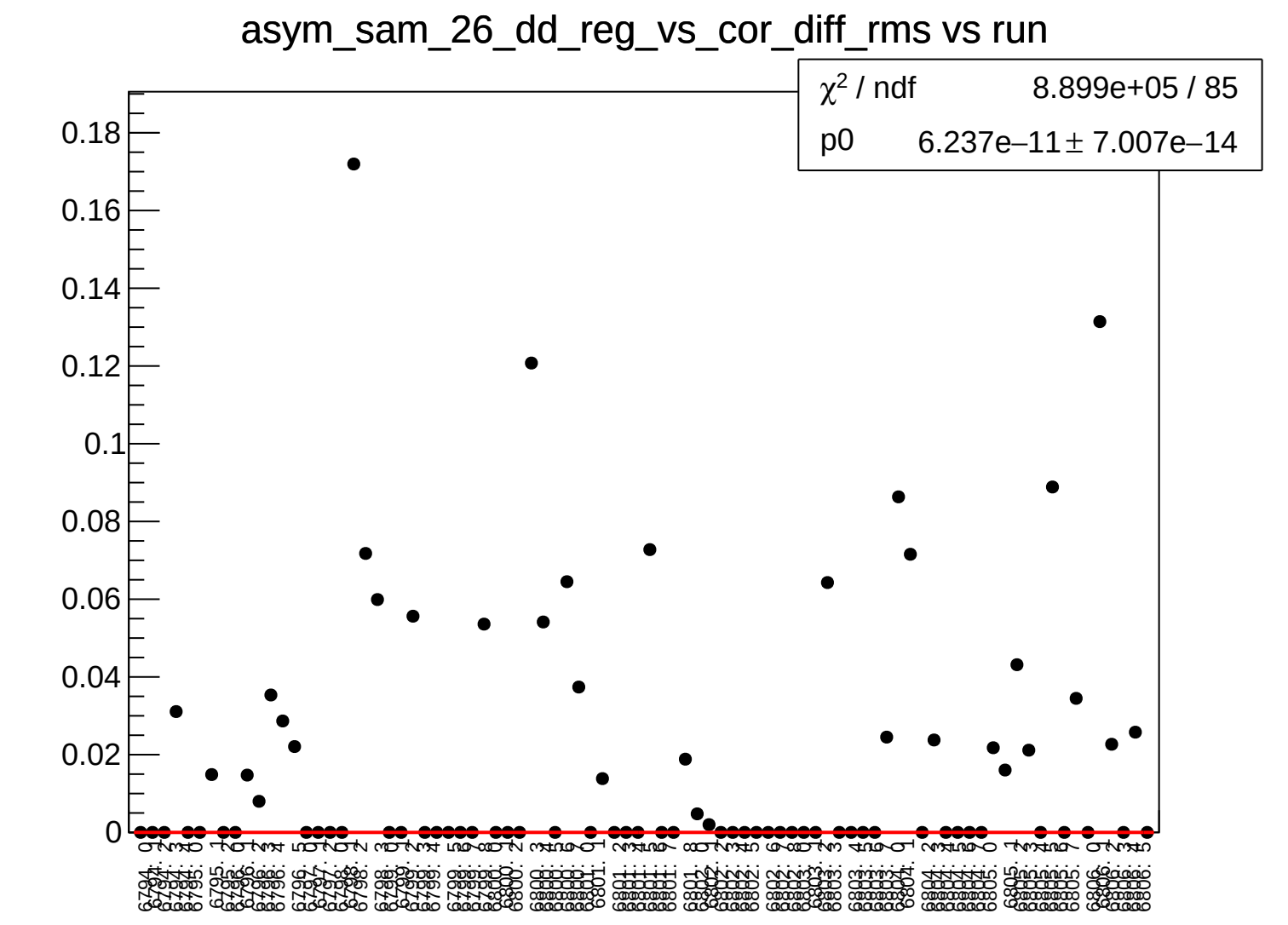

asym_sam_26_dd_mean vs run
χ² / ndf 73.87 / 85
p0 −906.7 ± 2139
pull
Entries 86
Mean −112.5
Std Dev 0

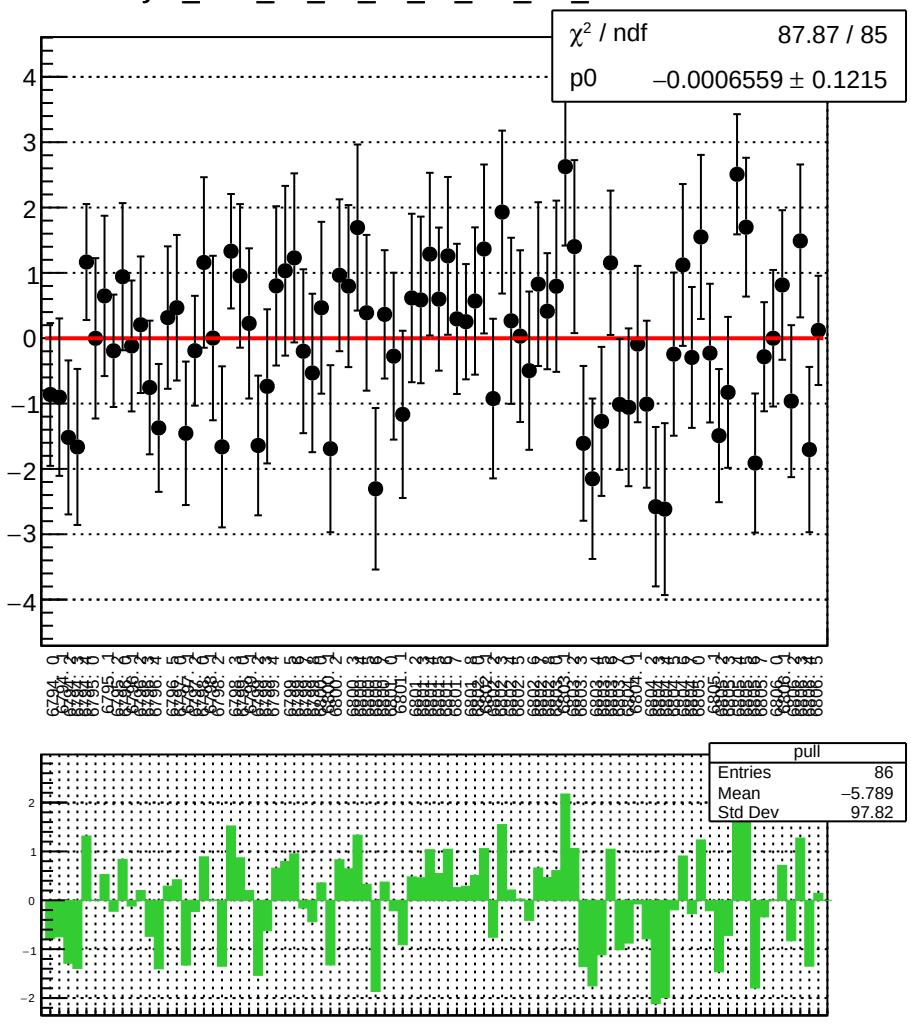

pull1D
Entries 86
Mean −0.007371
Std Dev 0.9268

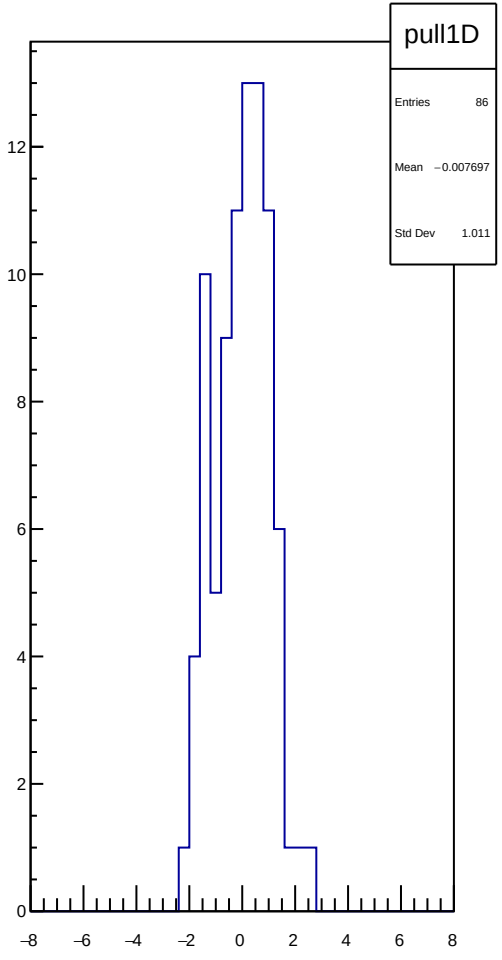

asym_sam_26_dd_rms vs run
χ^2 / ndf 9605 / 85
p0 1956 ± 1.512
2300
2200
2100
2000
1900
1800
1700
1600

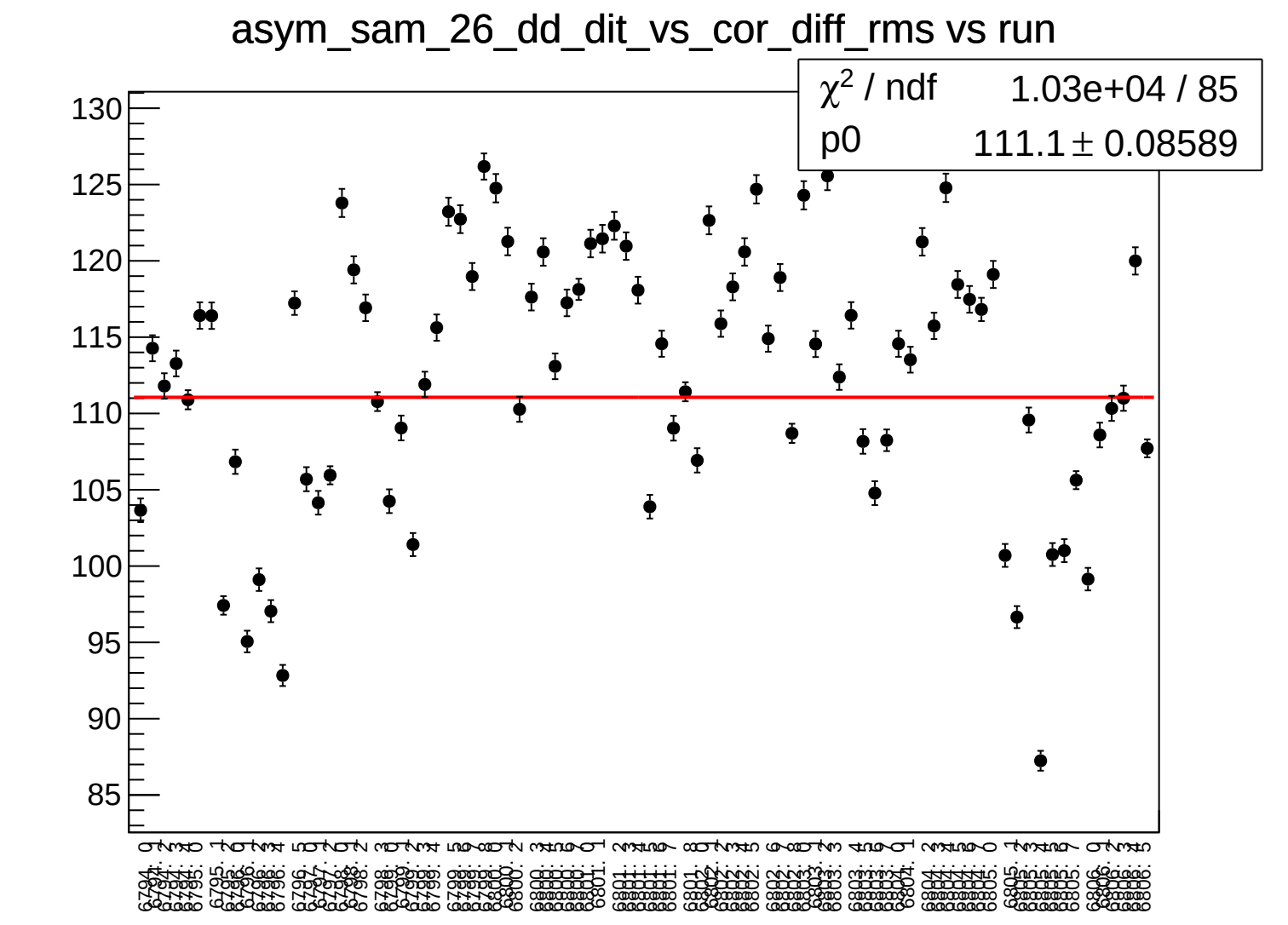

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.2 / 85
p0 −1.234e−13 ± 9.909e−14
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 85.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

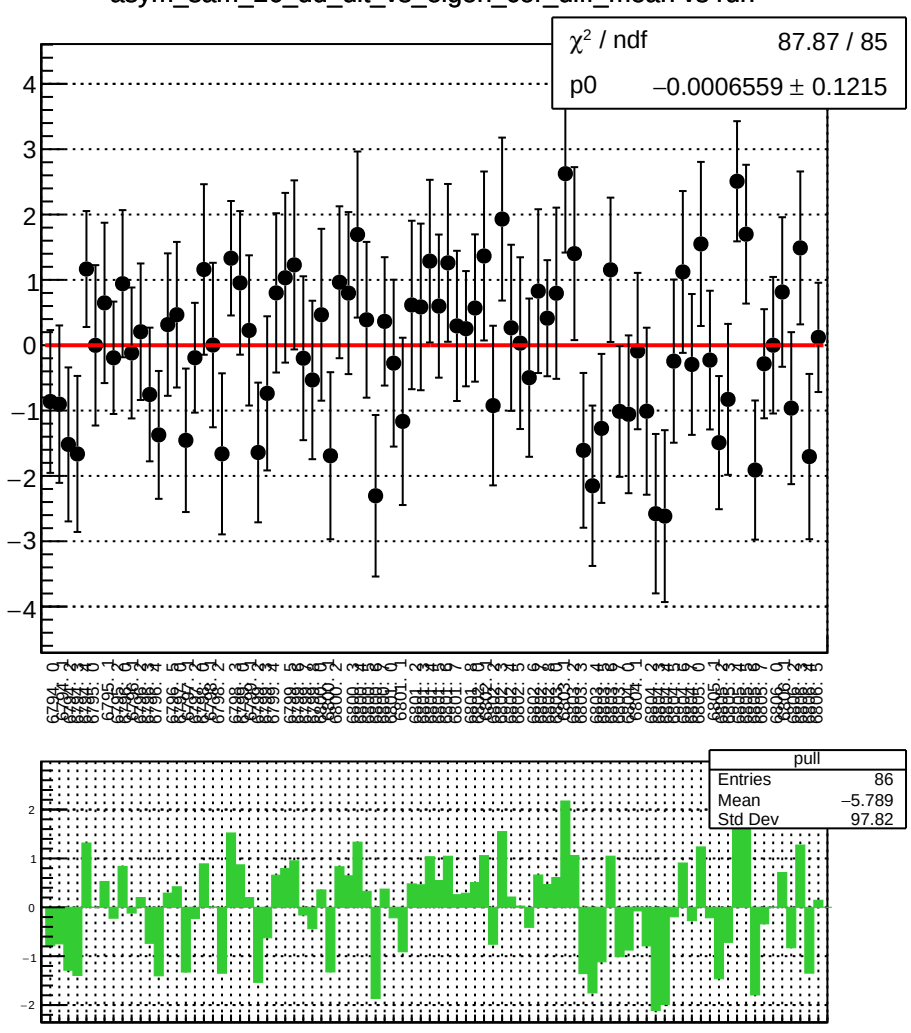

pull1D
Entries 86
Mean 0.04122
Std Dev 0.9279
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

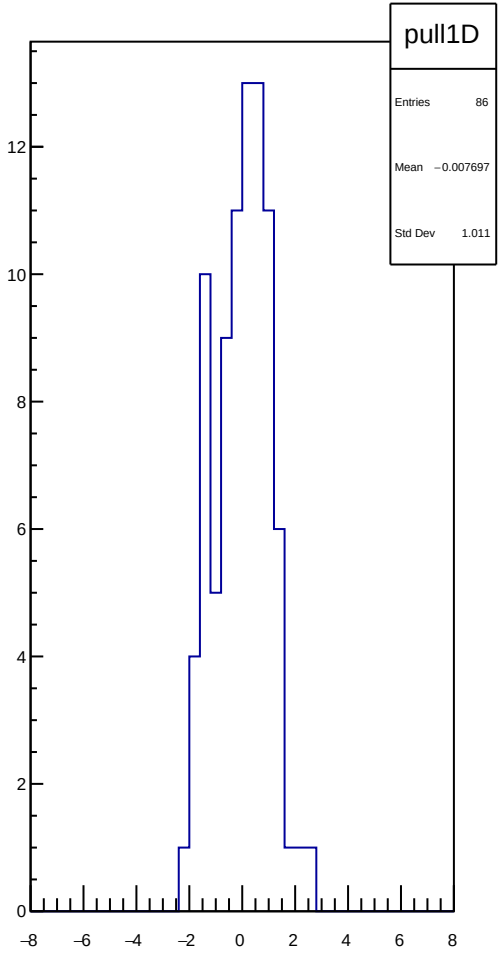

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 8.899e+05 / 85
p0 6.237e−11 ± 7.007e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

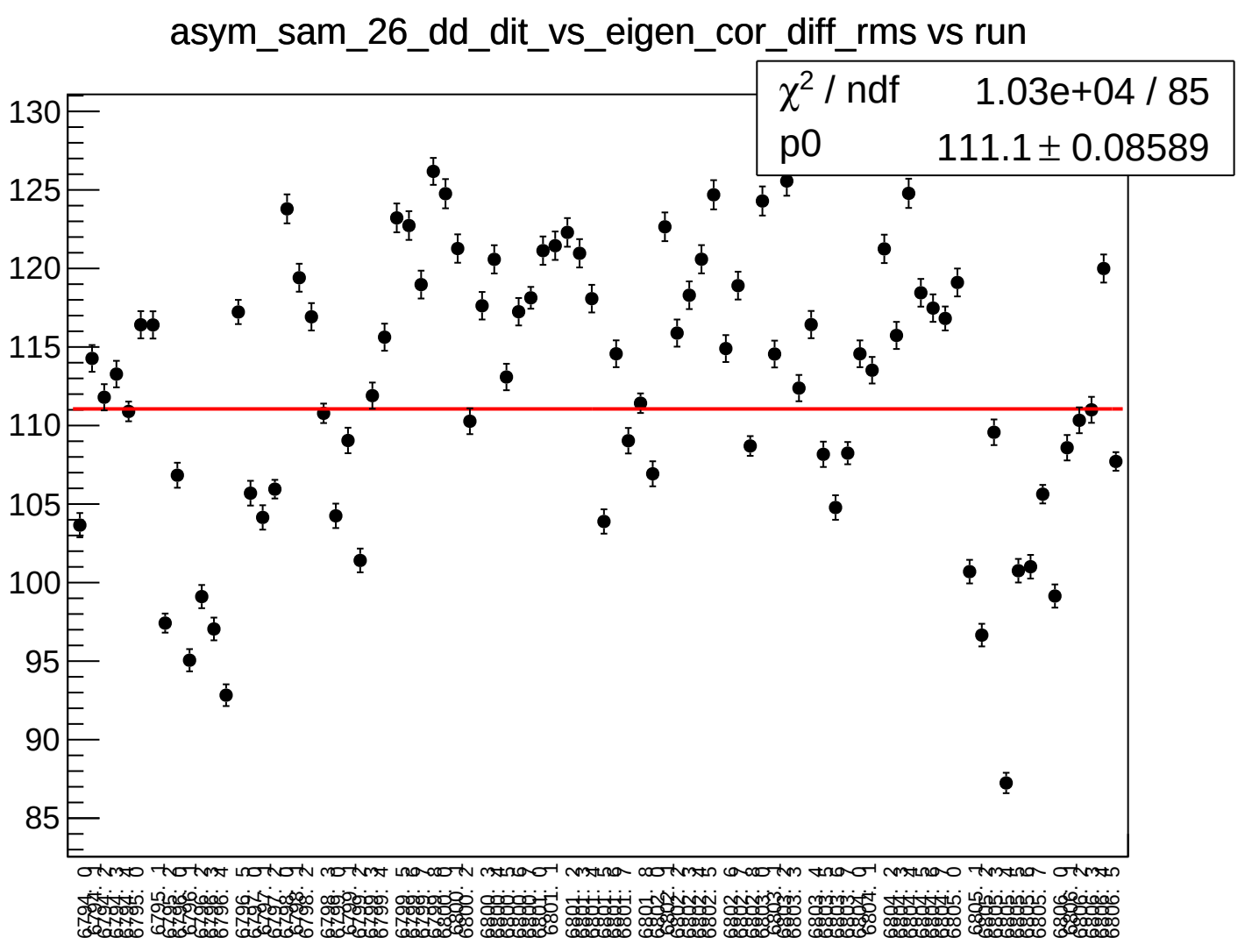

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 −0.0006559 ± 0.1215
pull
Entries 86
Mean −5.789
Std Dev 97.82

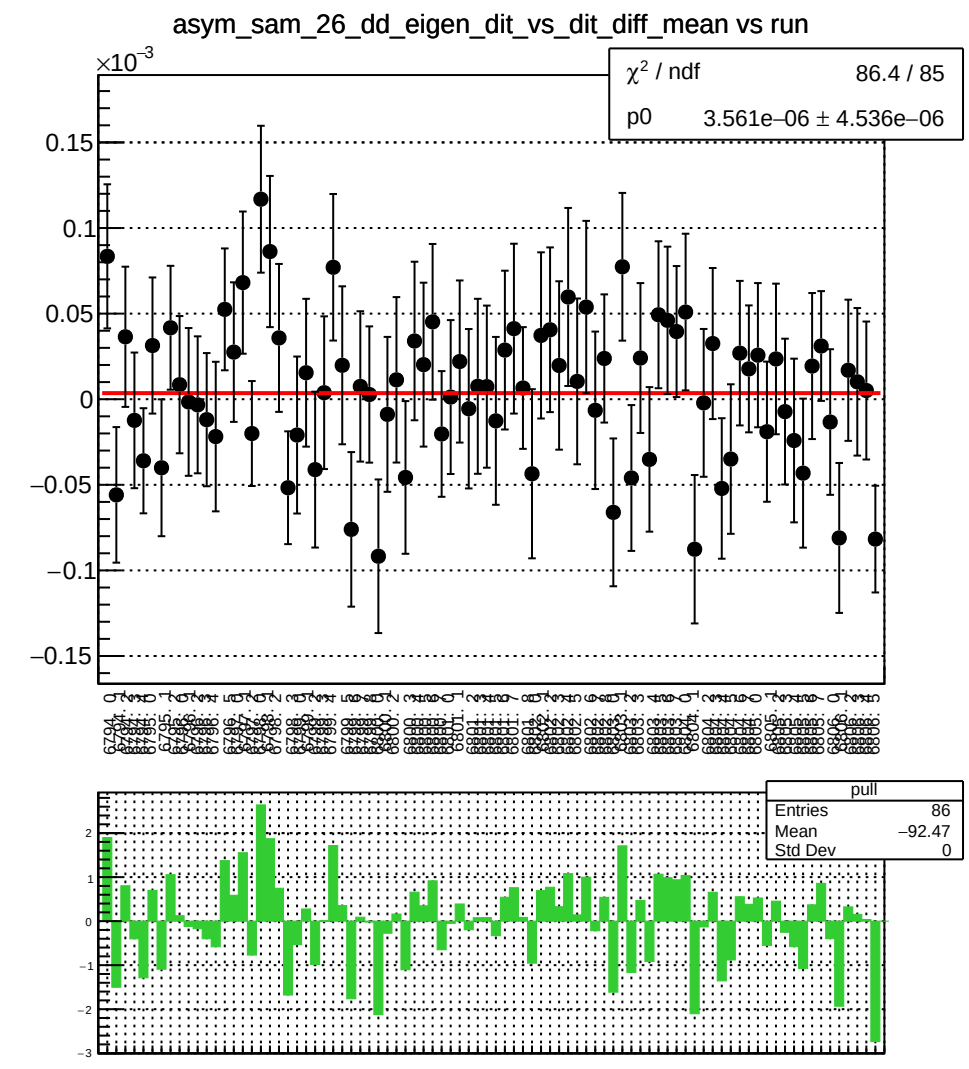

pull1D
Entries 86
Mean −0.007697
Std Dev 1.011

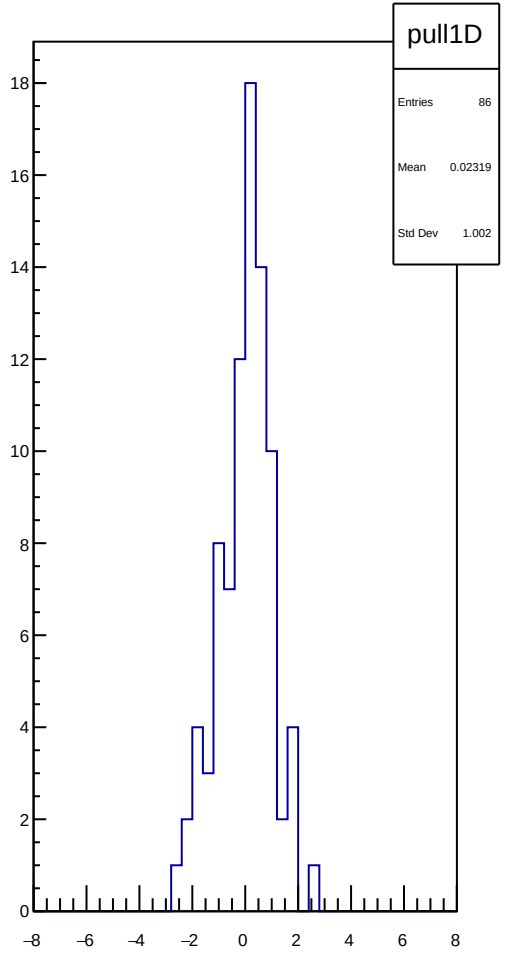

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.03e+04 / 85
p0 111.1 ± 0.08589
130
125
120
115
110
105
100
95
90
85

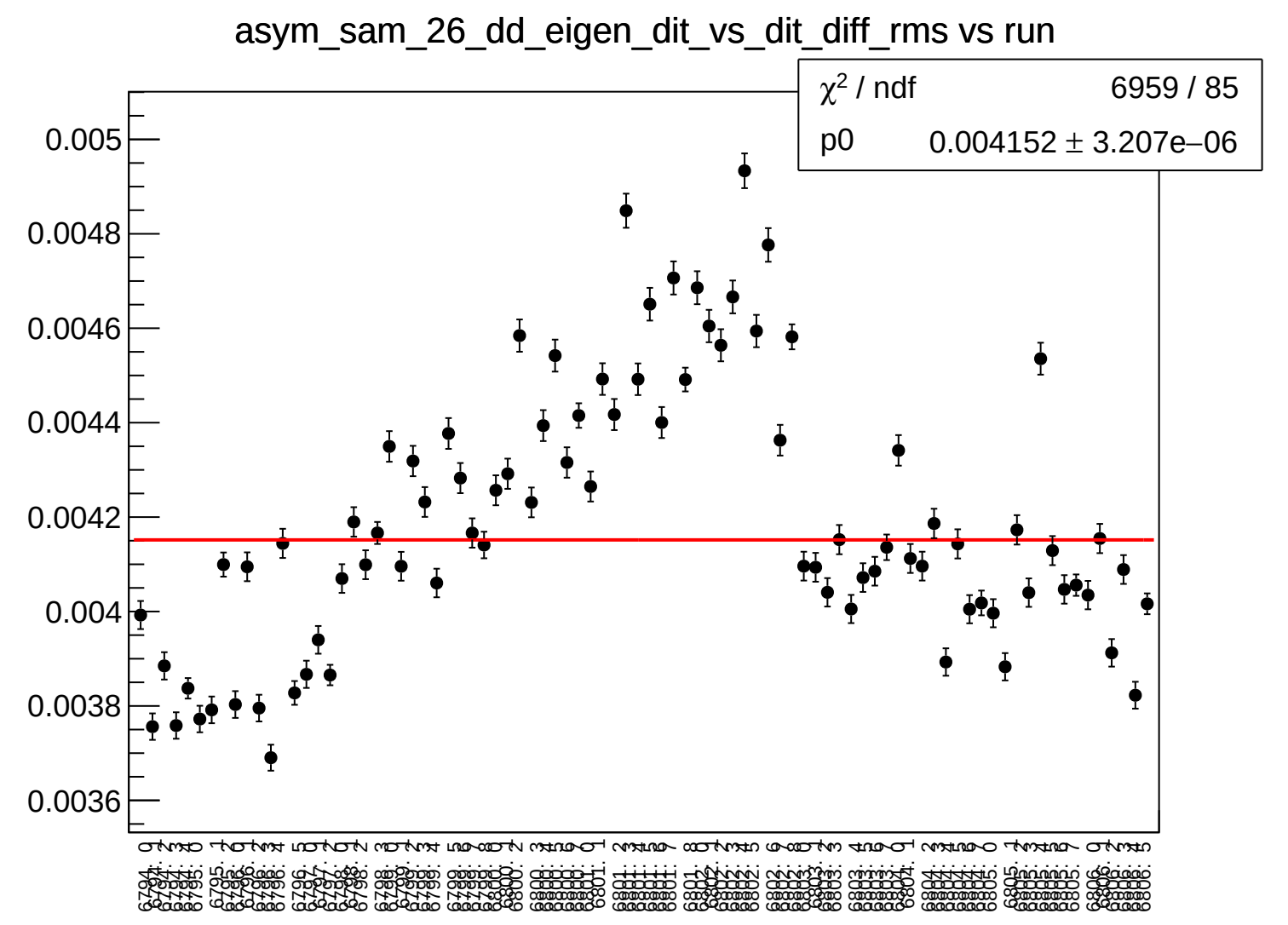

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 −0.0006559 ± 0.1215
pull
Entries 86
Mean −5.789
Std Dev 97.82

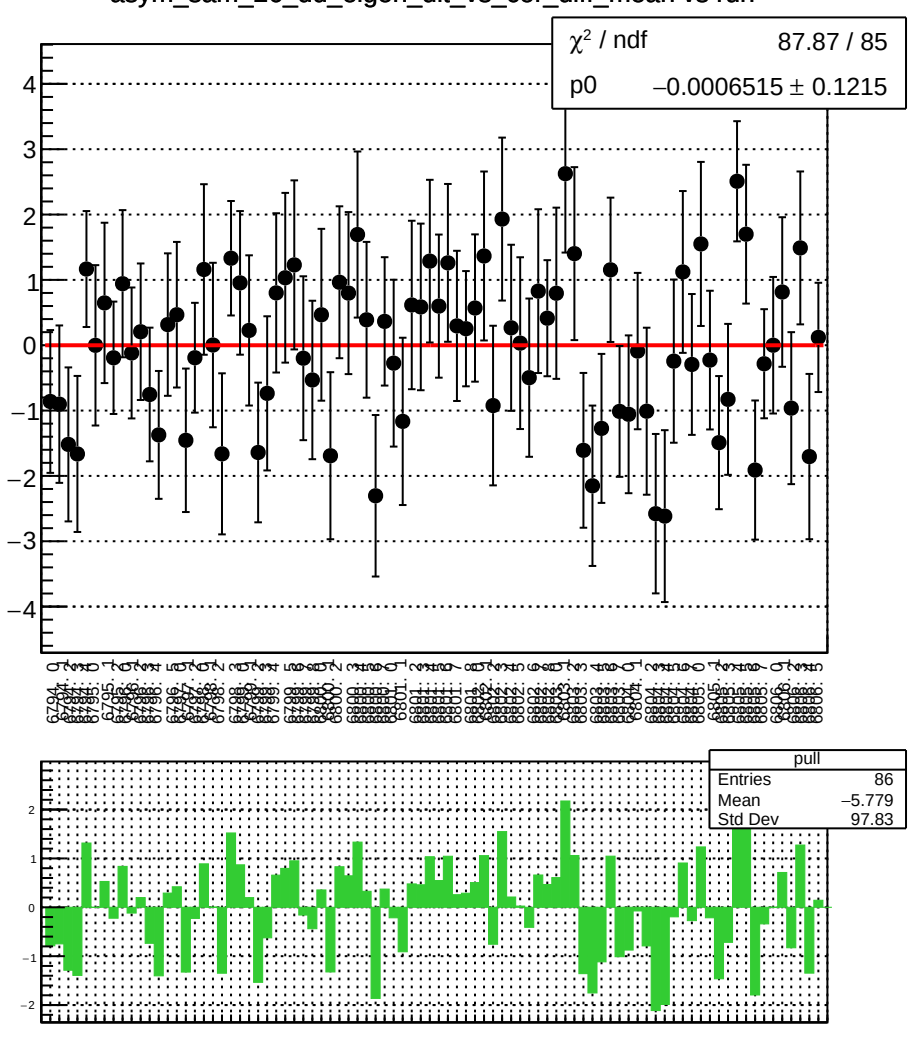

pull1D
Entries 86
Mean −0.007697
Std Dev 1.011

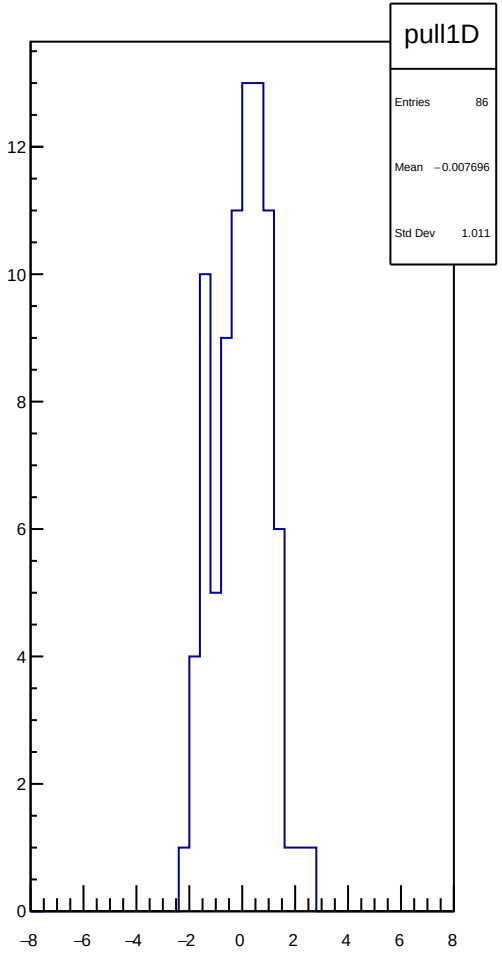

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.03e+04 / 85
p0 111.1 ± 0.08589
130
125
120
115
110
105
100
95
90
85

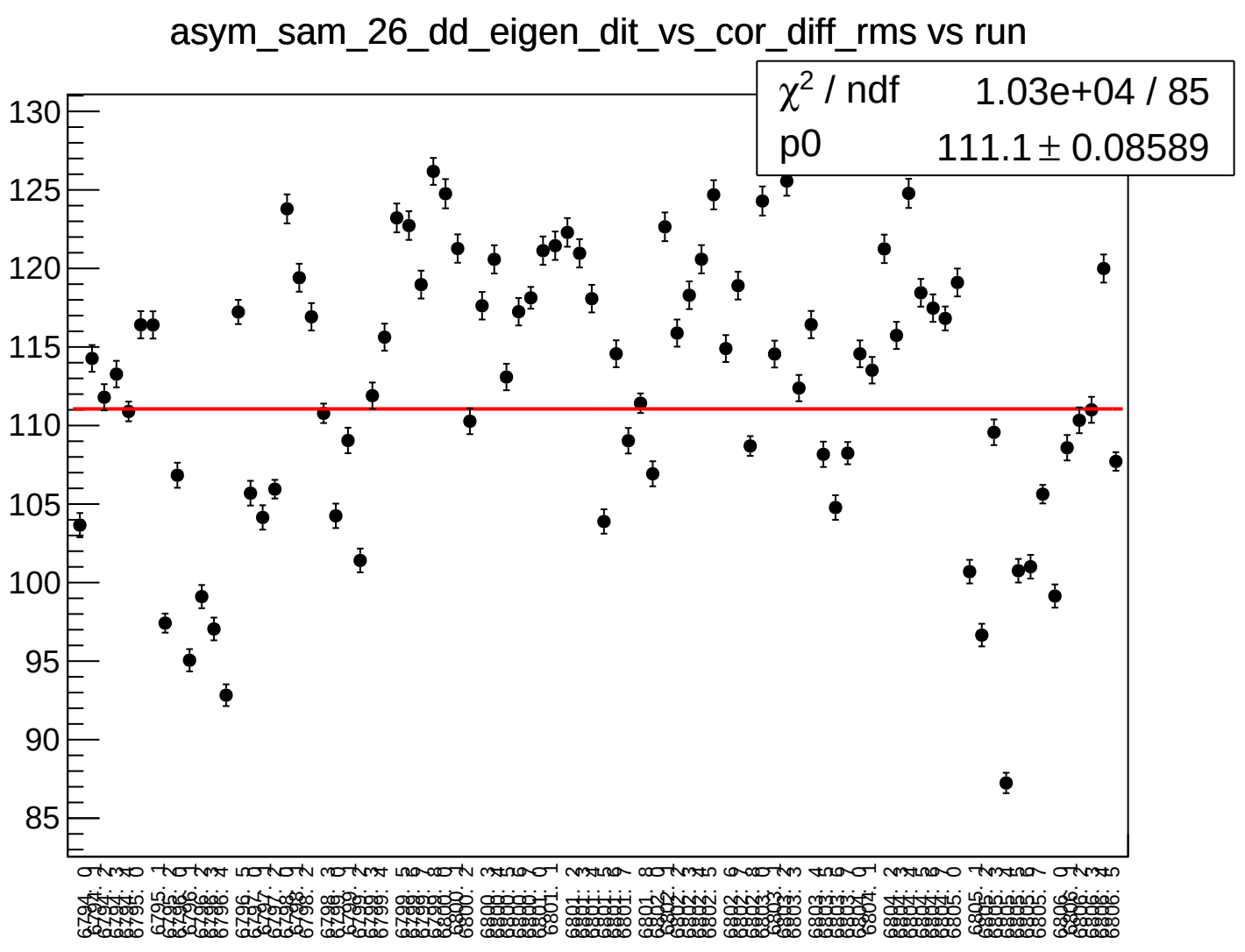

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 86.4 / 85
p0 3.561e−06 ± 4.536e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 86
Mean −92.47
Std Dev 0
2
1
0
−1
−2
−3

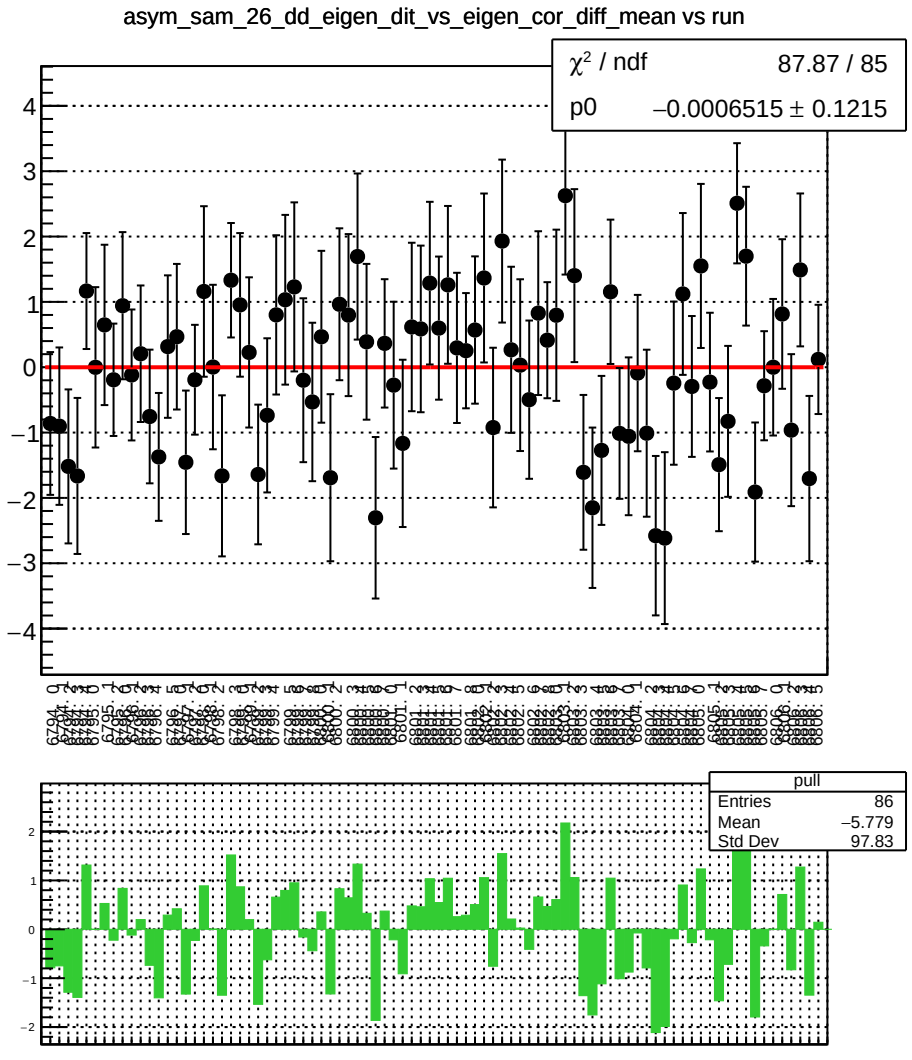

pull1D
Entries 86
Mean 0.02319
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

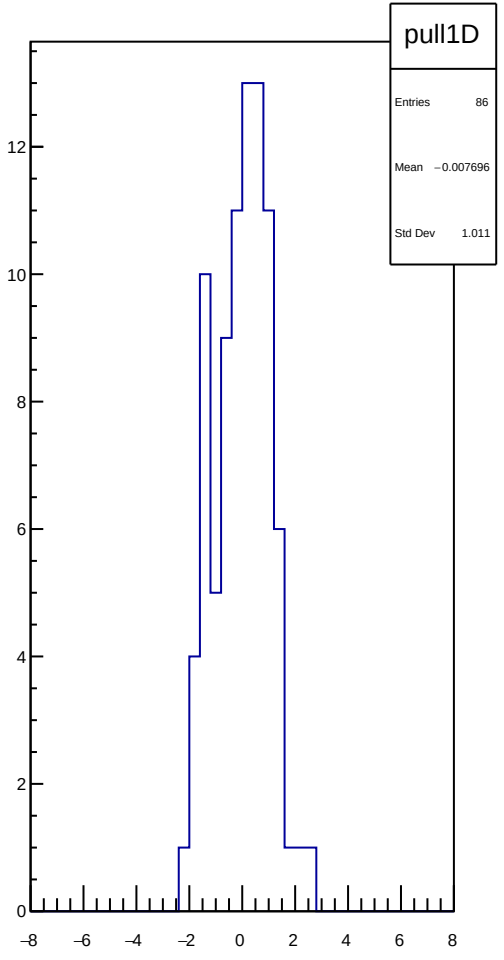

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6959 / 85
p0 0.004152 ± 3.207e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036

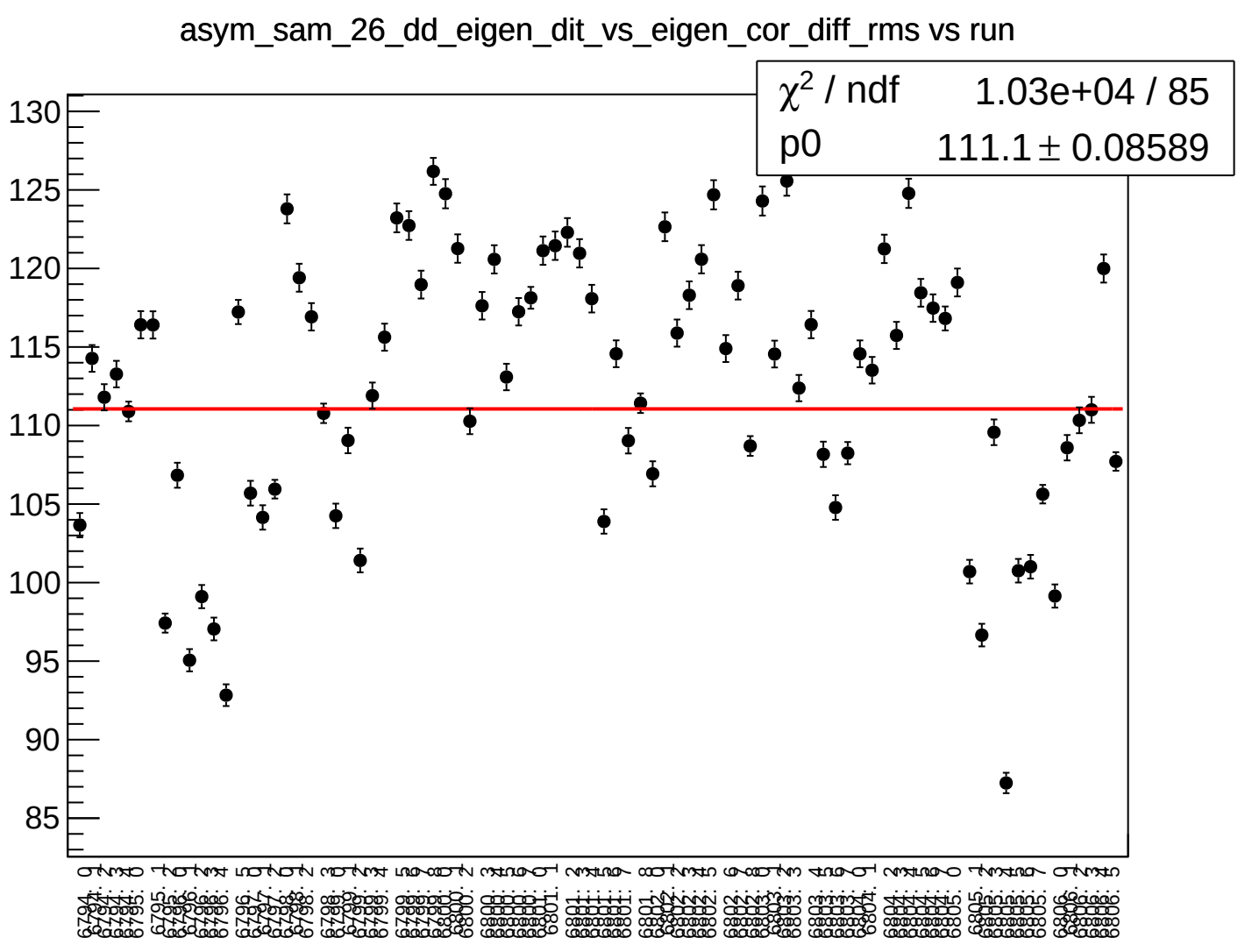

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 −0.0006515 ± 0.1215
pull
Entries 86
Mean −5.779
Std Dev 97.83

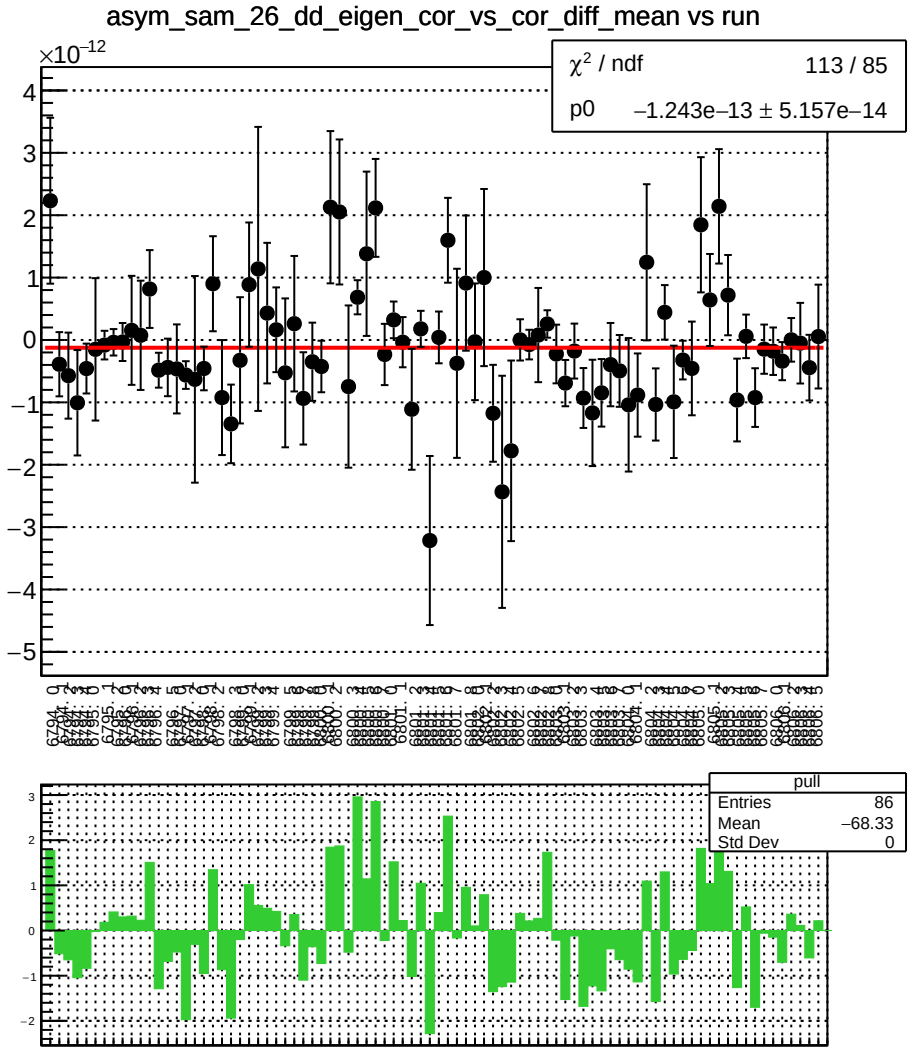

pull1D
Entries 86
Mean −0.007696
Std Dev 1.011

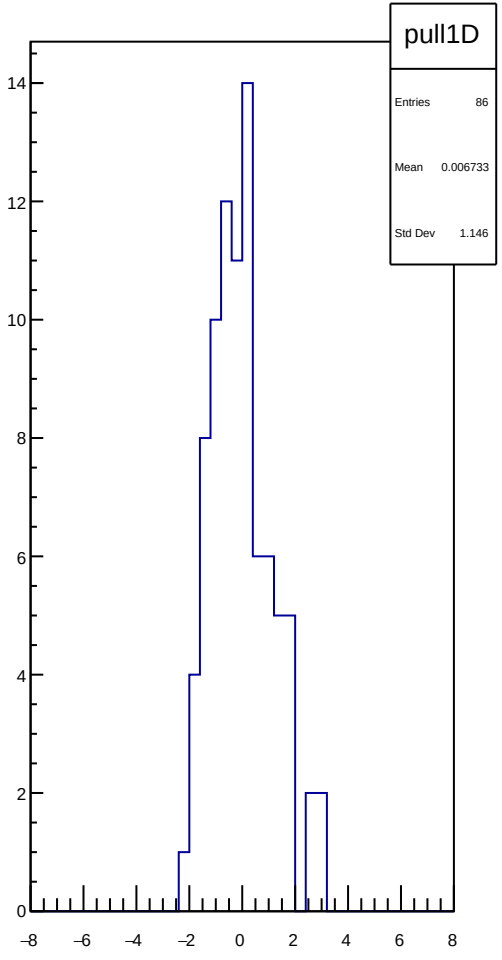

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.03e+04 / 85
p0 111.1 ± 0.08589
130
125
120
115
110
105
100
95
90
85

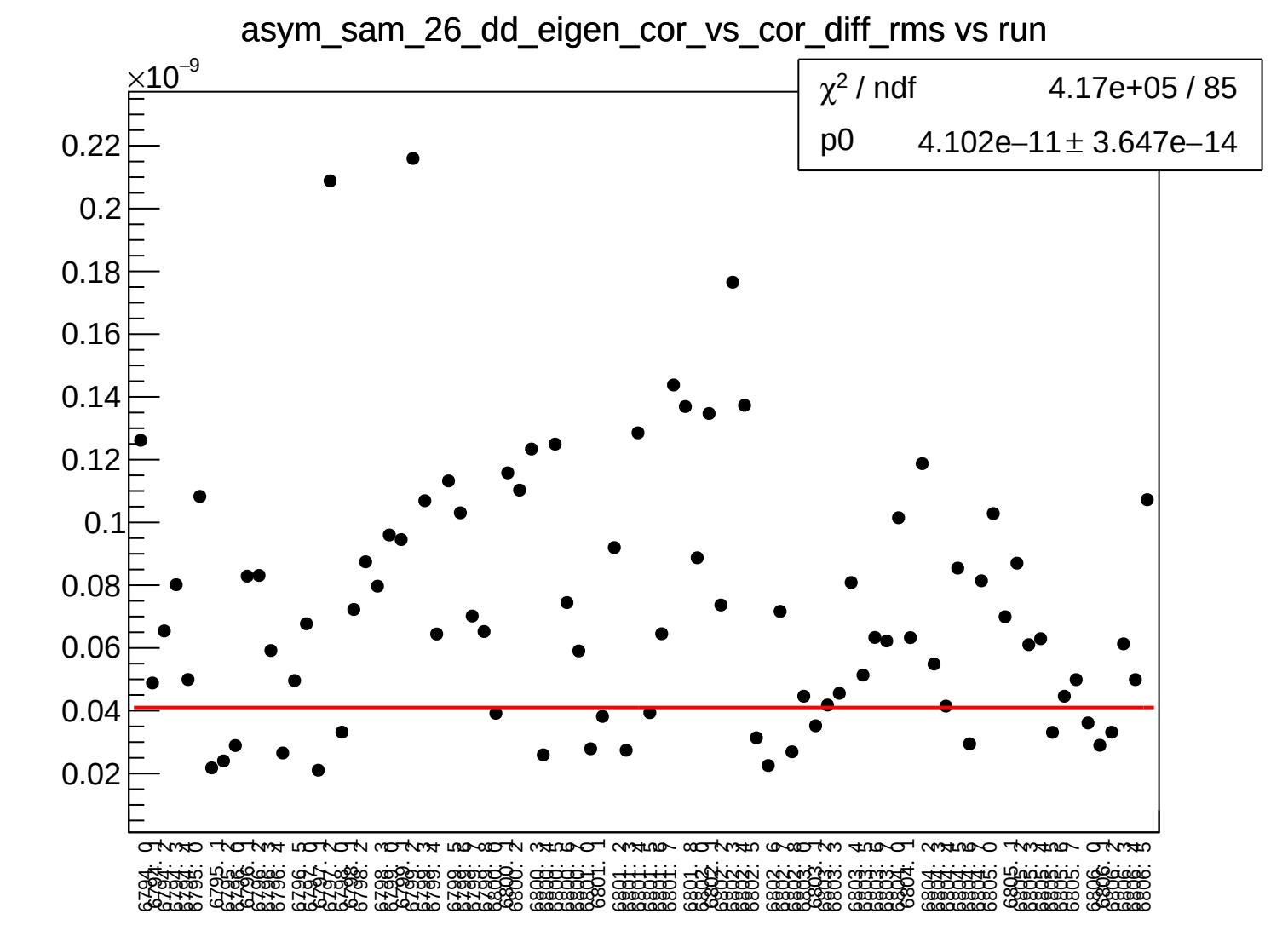

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.87 / 85
p0 −0.0006515 ± 0.1215
pull
Entries 86
Mean −5.779
Std Dev 97.83

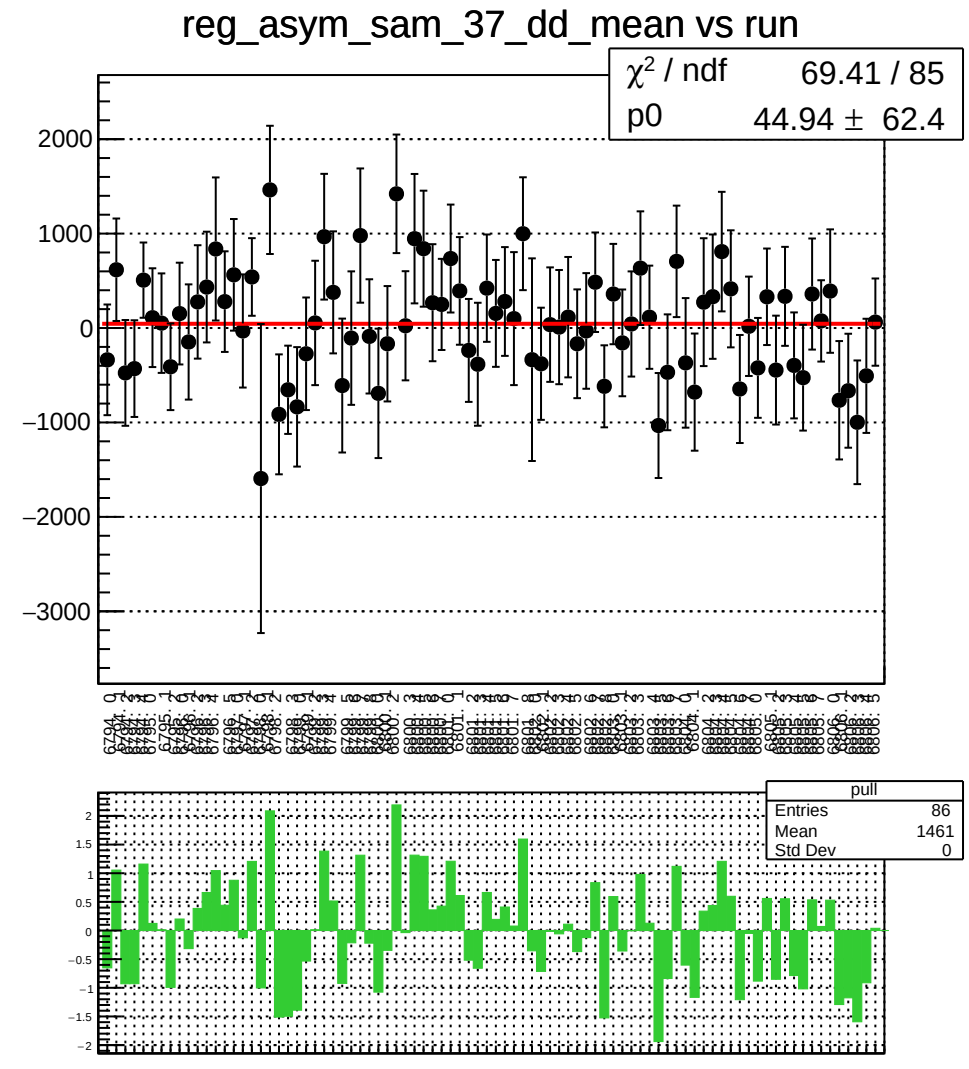

pull1D
Entries 86
Mean −0.007696
Std Dev 1.011

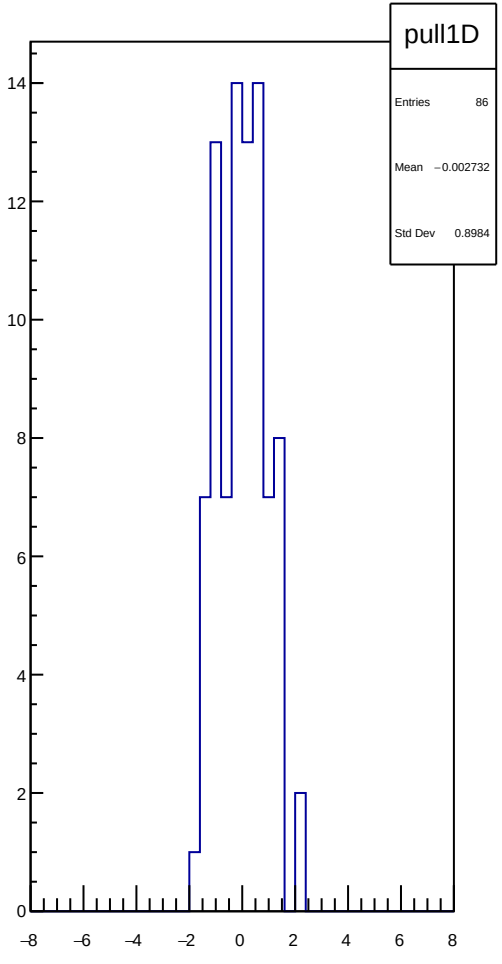

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.03e+04 / 85
p0 111.1 ± 0.08589
130
125
120
115
110
105
100
95
90
85

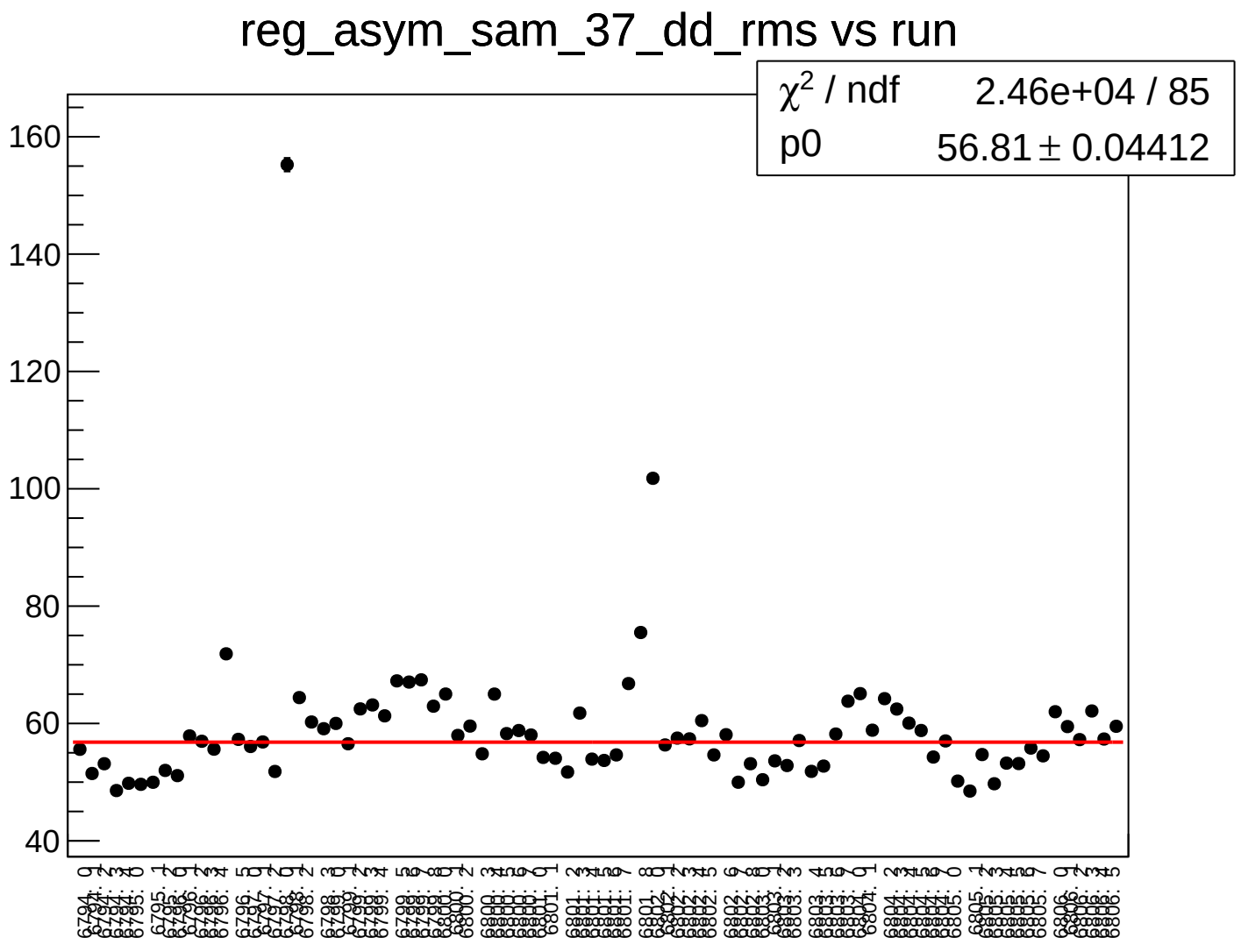

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113 / 85
p0 −1.243e−13 ± 5.157e−14
pull
Entries 86
Mean −68.33
Std Dev 0

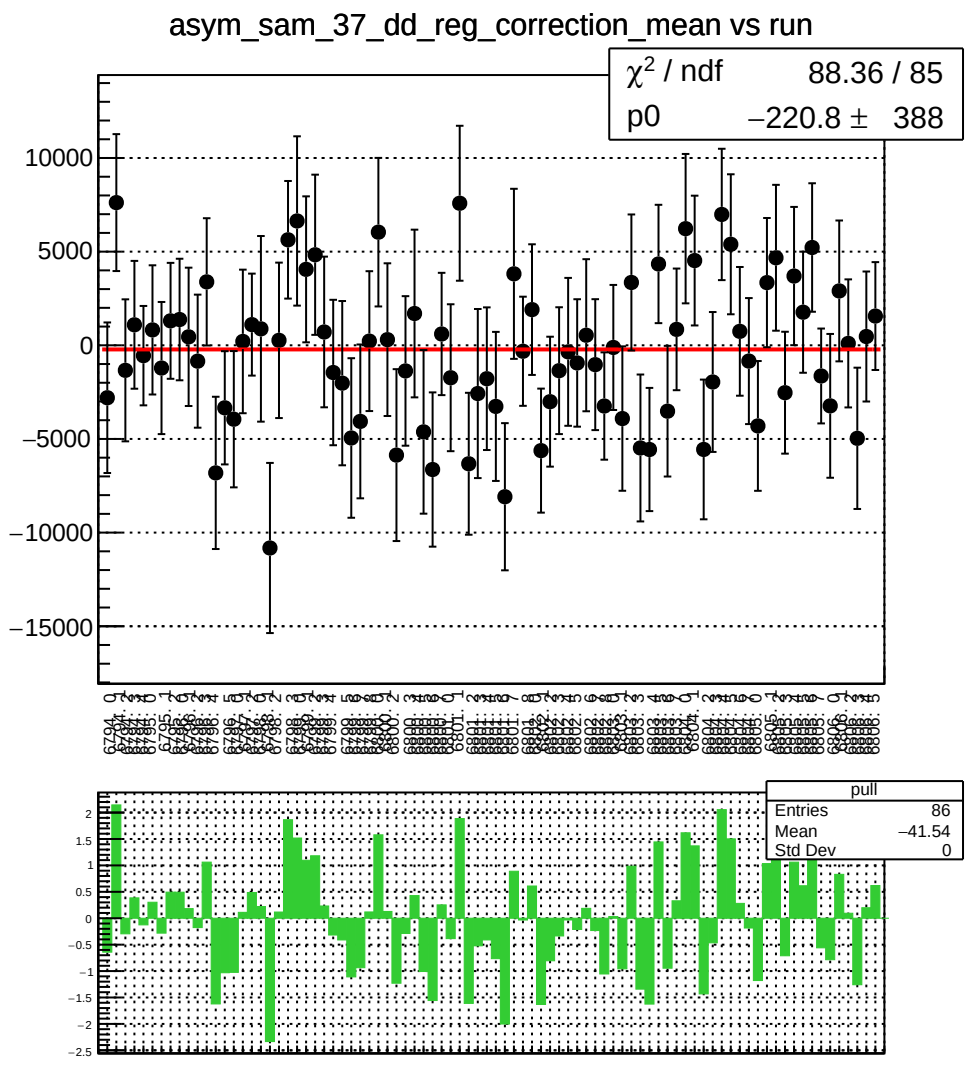

pull1D
Entries 86
Mean 0.006733
Std Dev 1.146

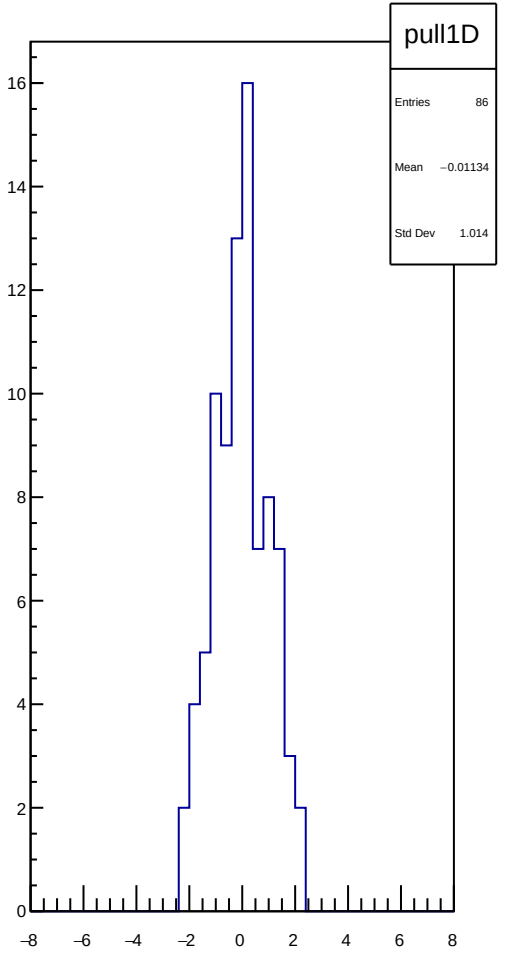

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.17e+05 / 85
p0 4.102e−11 ± 3.647e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

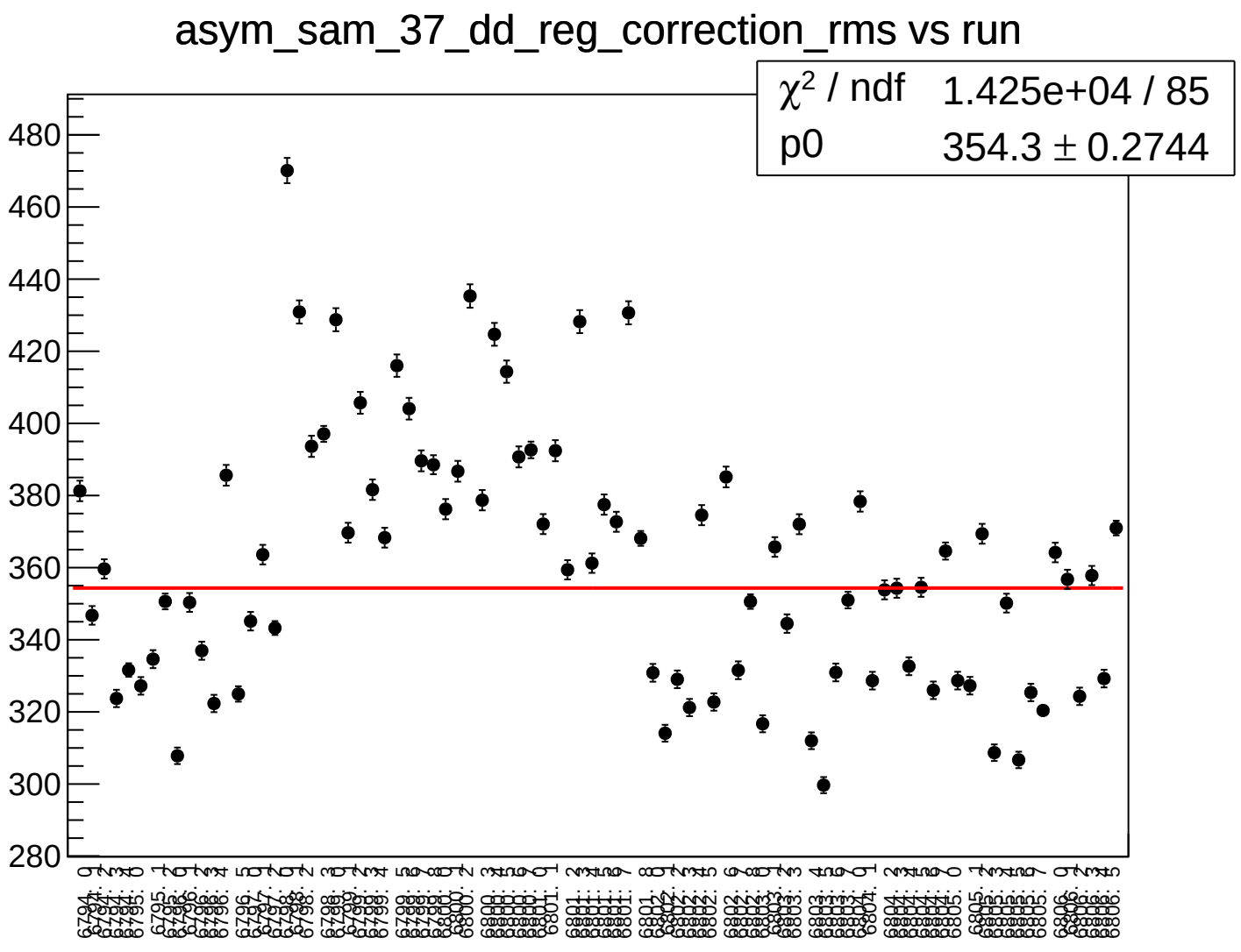

reg_asym_sam_37_dd_mean vs run
χ² / ndf 69.41 / 85
p0 44.94 ± 62.4
pull
Entries 86
Mean 1461
Std Dev 0

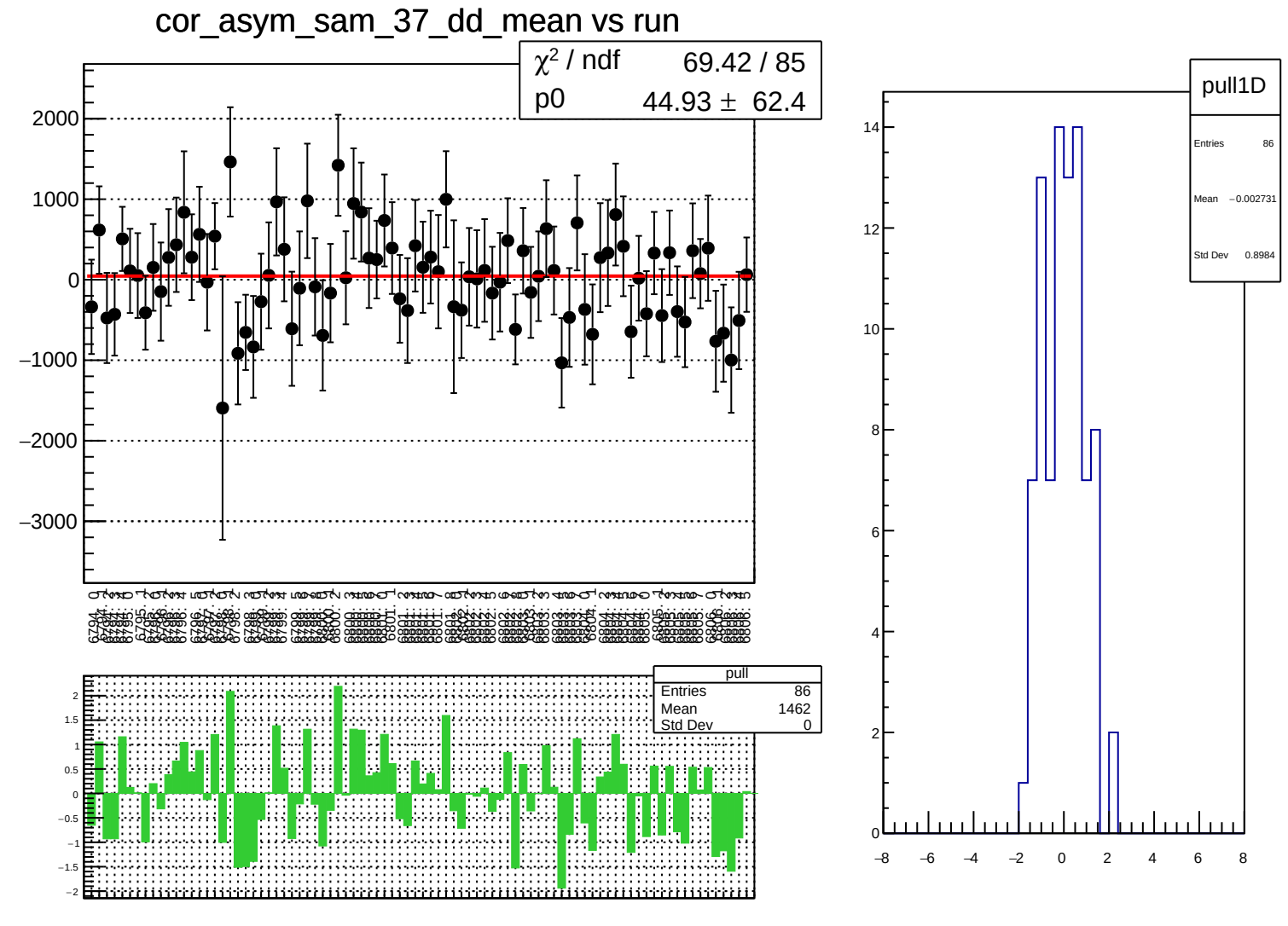

pull1D
Entries 86
Mean −0.002732
Std Dev 0.8984

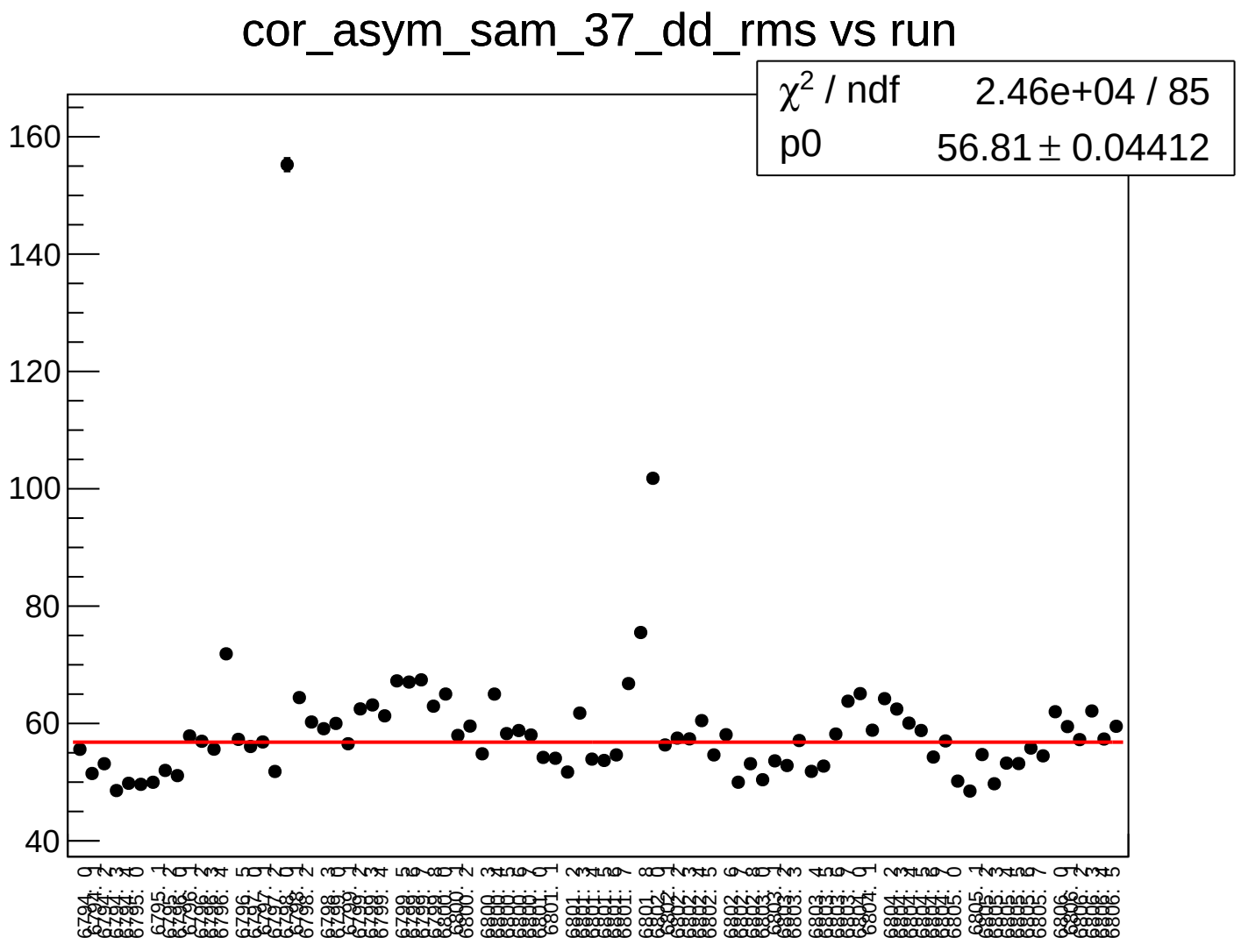

reg_asym_sam_37_dd_rms vs run
χ² / ndf 2.46e+04 / 85
p0 56.81 ± 0.04412
160
140
120
100
80
60
40

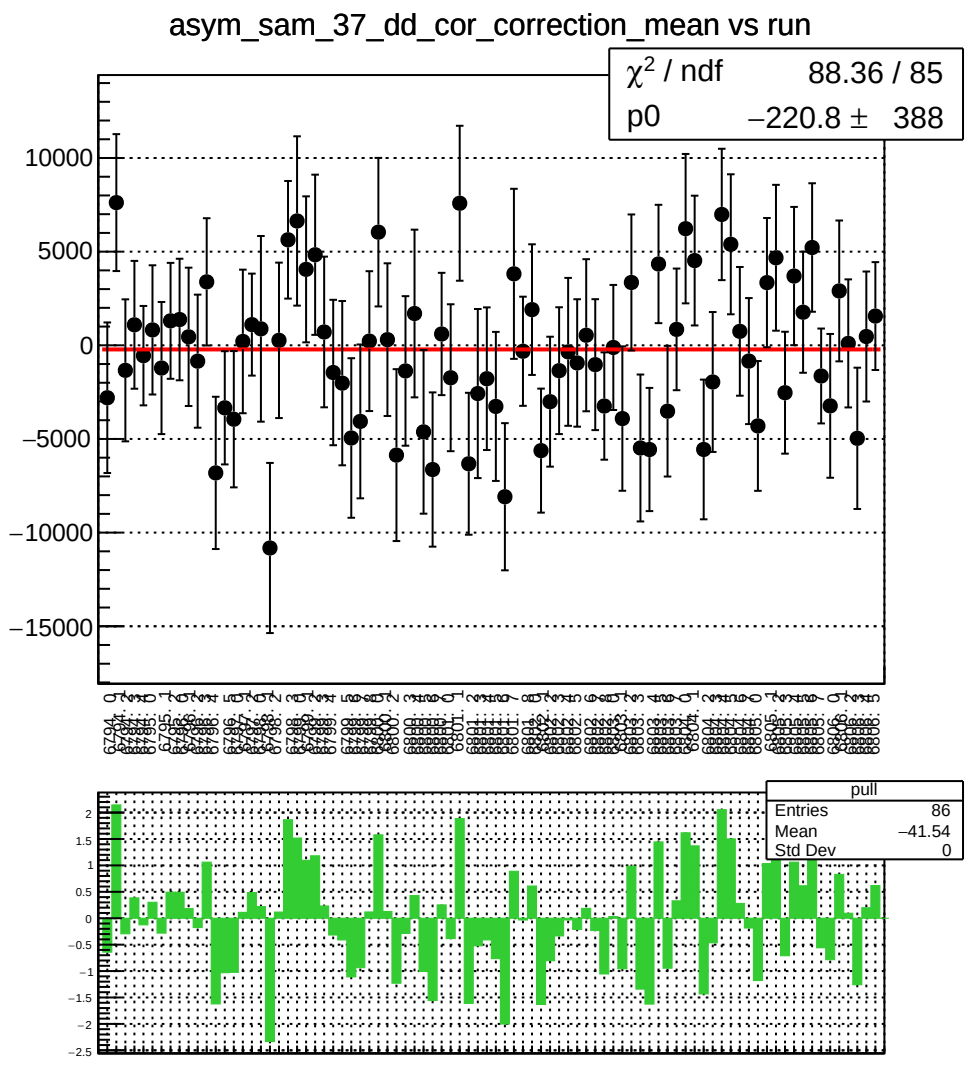

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 88.36 / 85
p0 −220.8 ± 388
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −41.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

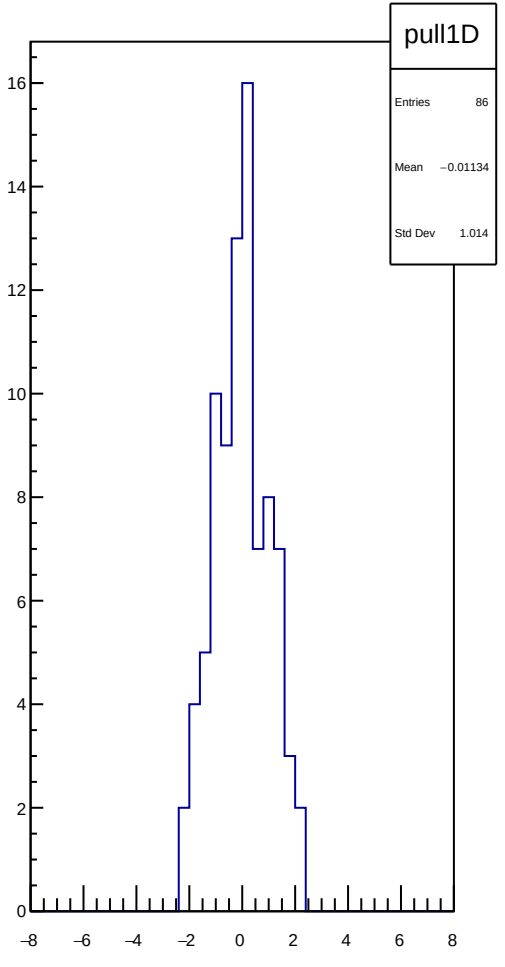

pull1D
Entries 86
Mean −0.01134
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

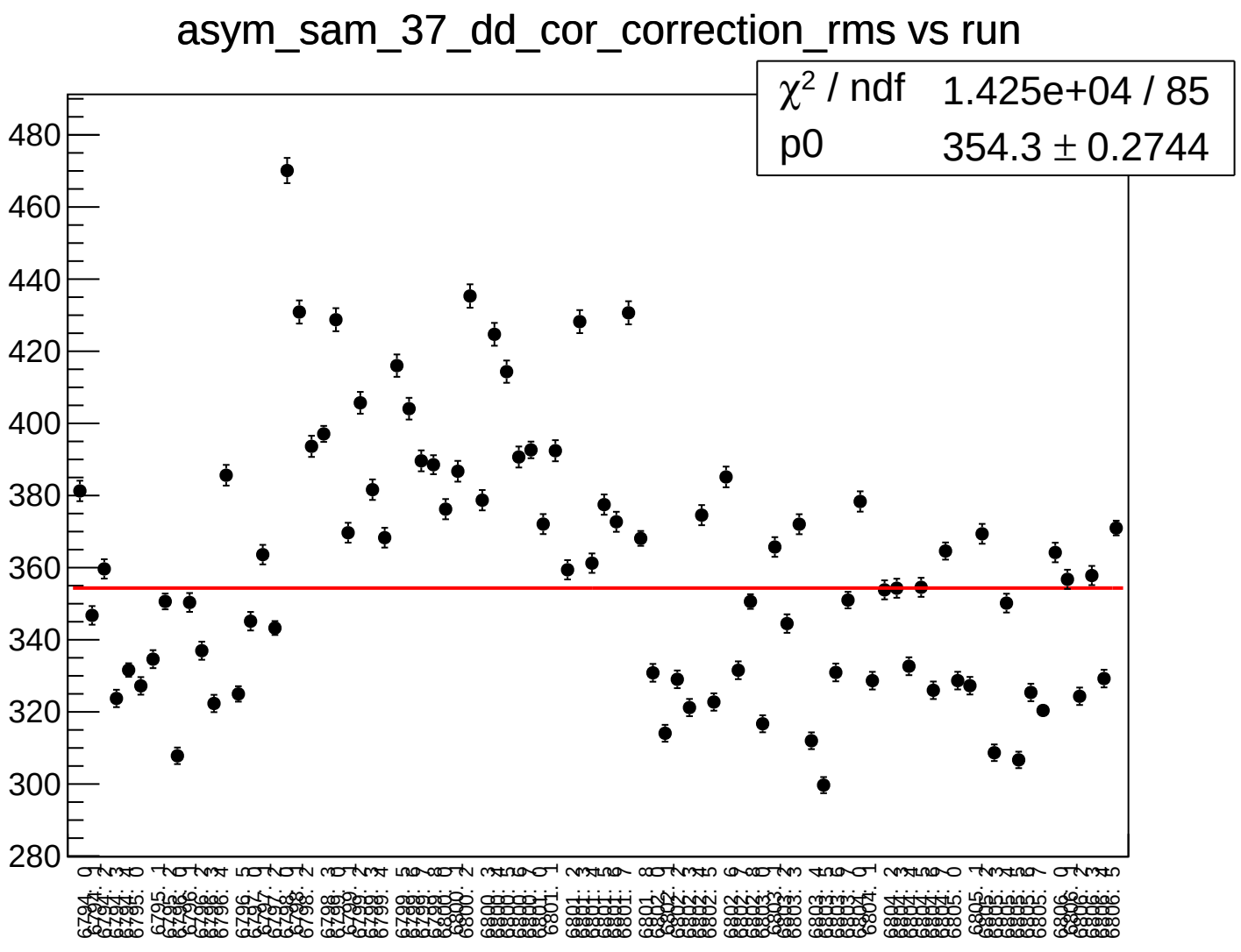

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 1.425e+04 / 85
p0 354.3 ± 0.2744
480
460
440
420
400
380
360
340
320
300
280

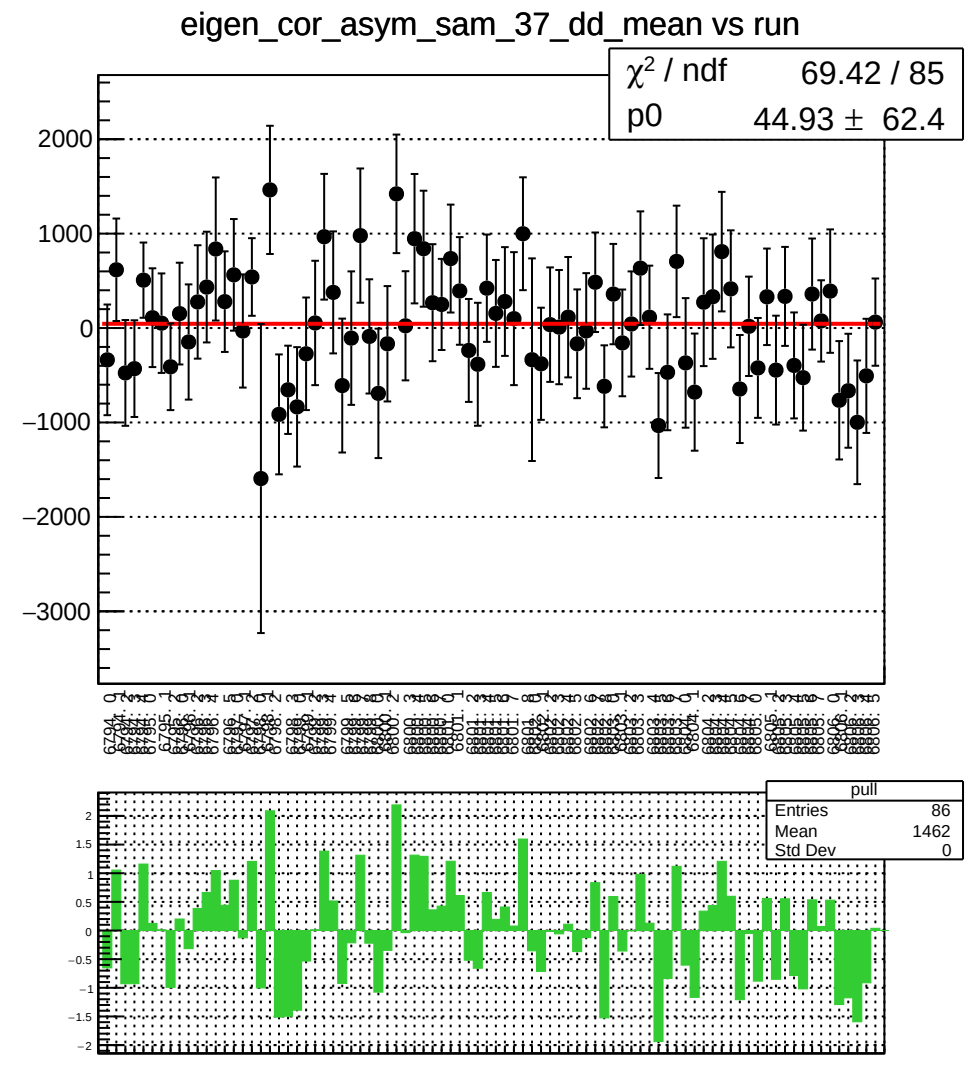

cor_asym_sam_37_dd_mean vs run
χ² / ndf 69.42 / 85
p0 44.93 ± 62.4
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 1462
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.002731
Std Dev 0.8984
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

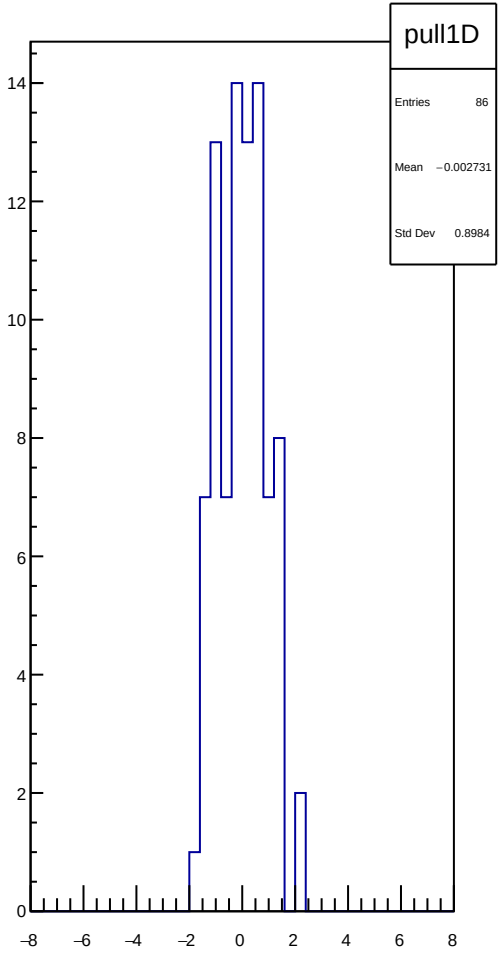

cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.46e+04 / 85
p0 56.81 ± 0.04412
160
140
120
100
80
60
40

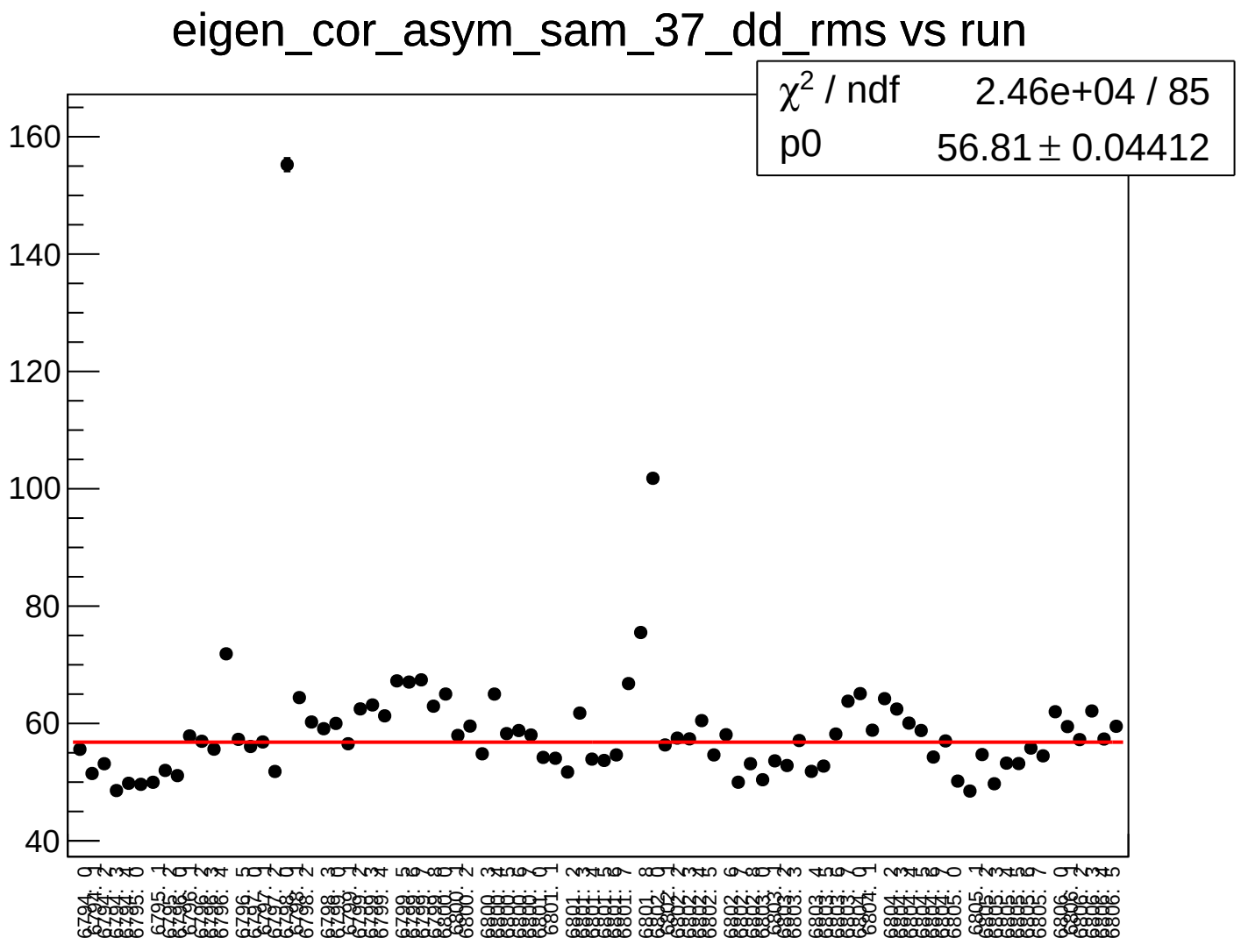

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 88.36 / 85
p0 −220.8 ± 388
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −41.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

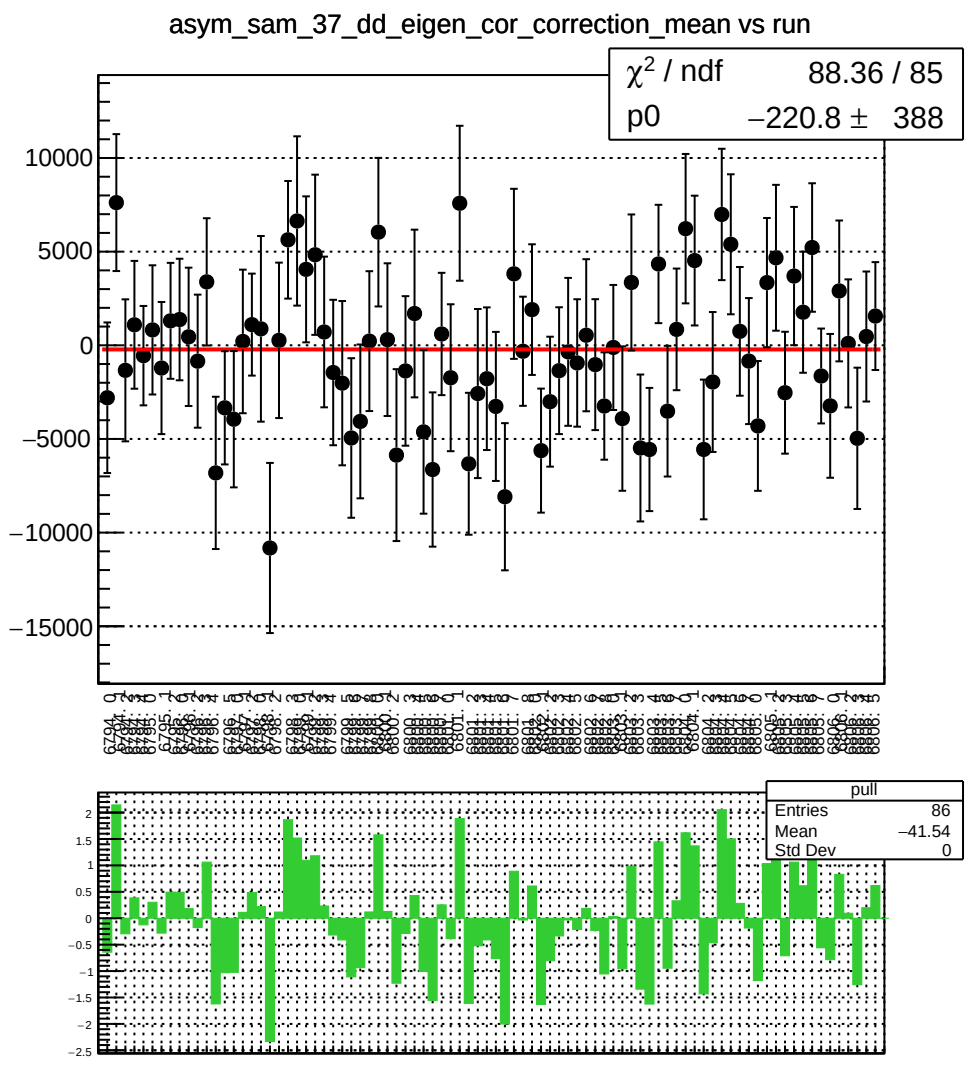

pull1D
Entries 86
Mean −0.01134
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

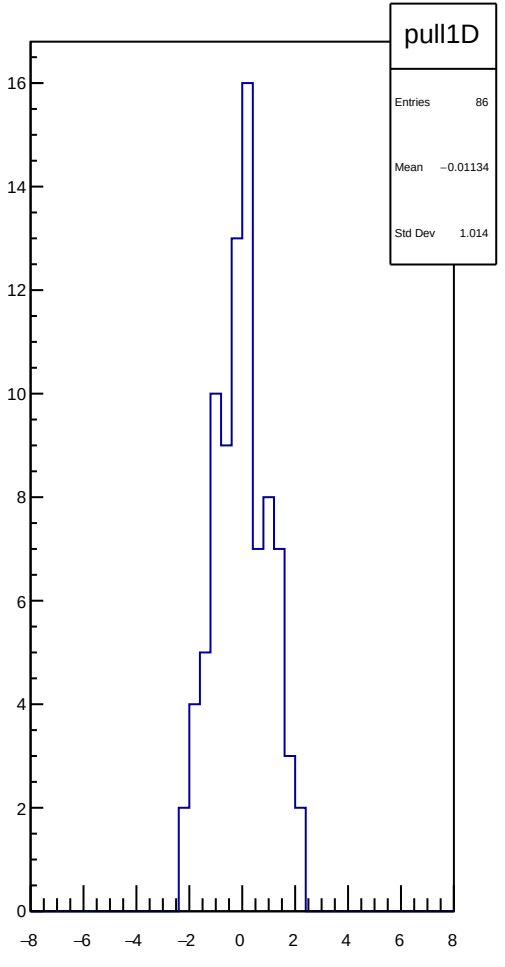

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 1.425e+04 / 85
p0 354.3 ± 0.2744
480
460
440
420
400
380
360
340
320
300
280

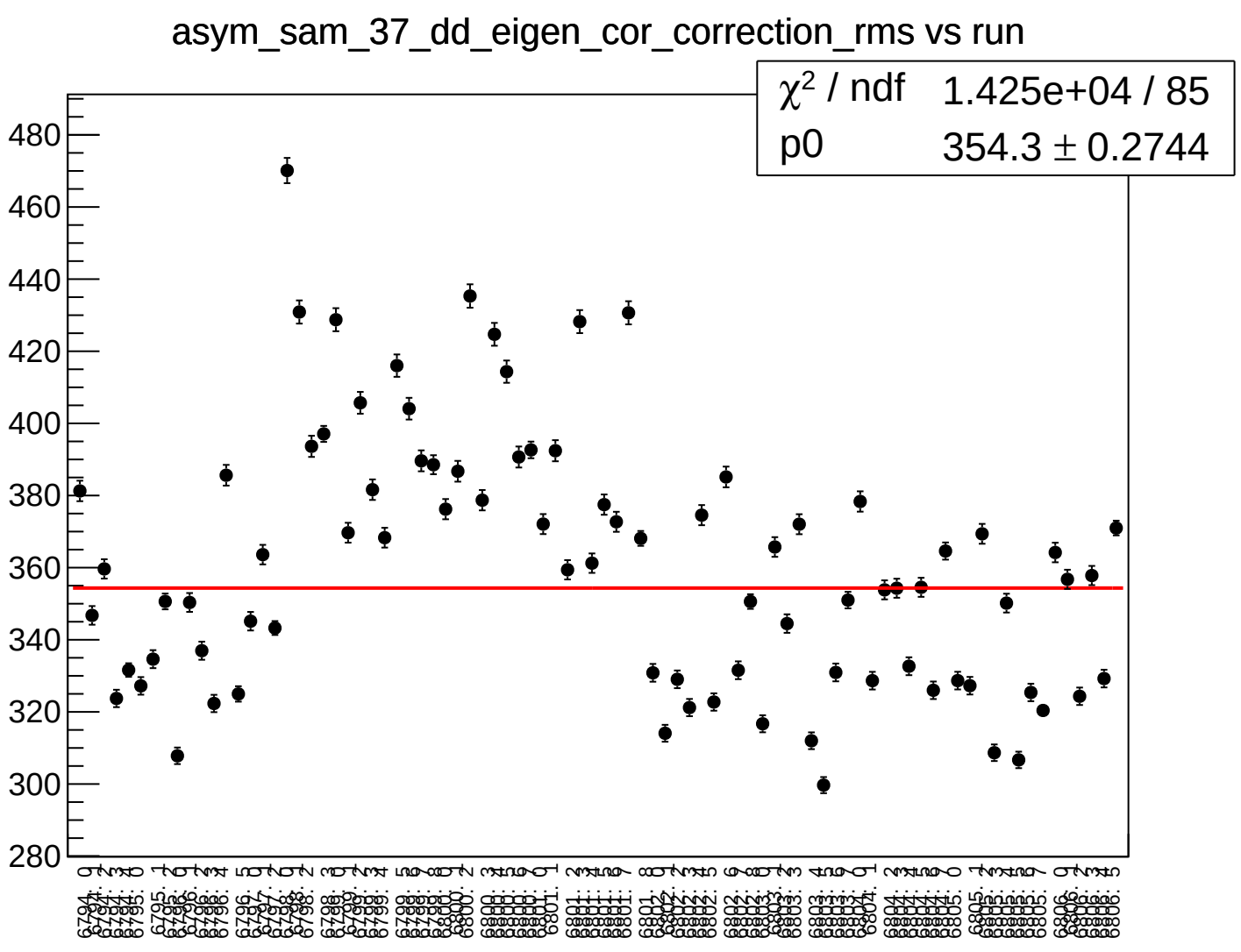

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 69.42 / 85
p0 44.93 ± 62.4
pull
Entries 86
Mean 1462
Std Dev 0

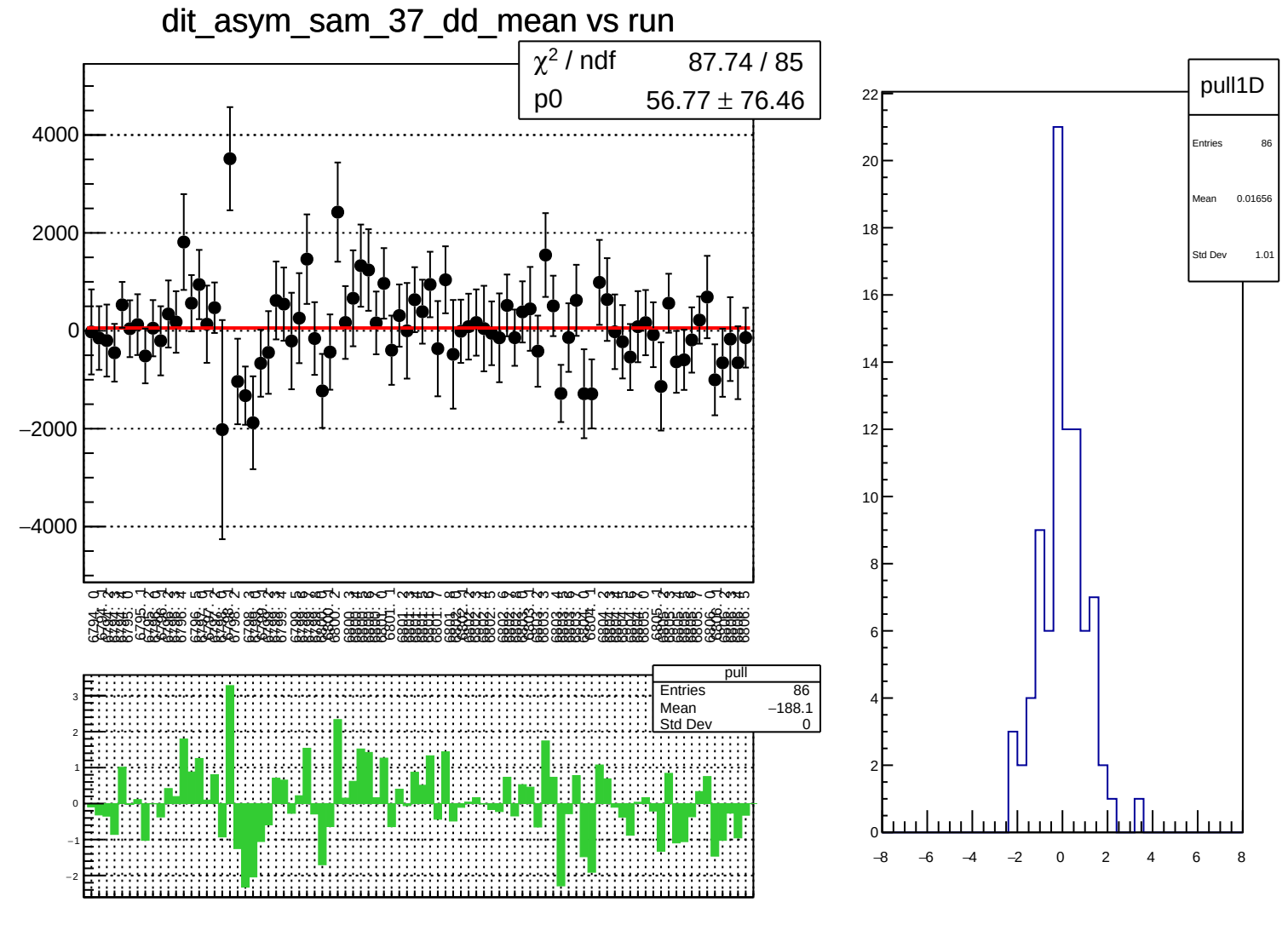

pull1D
Entries 86
Mean −0.002731
Std Dev 0.8984

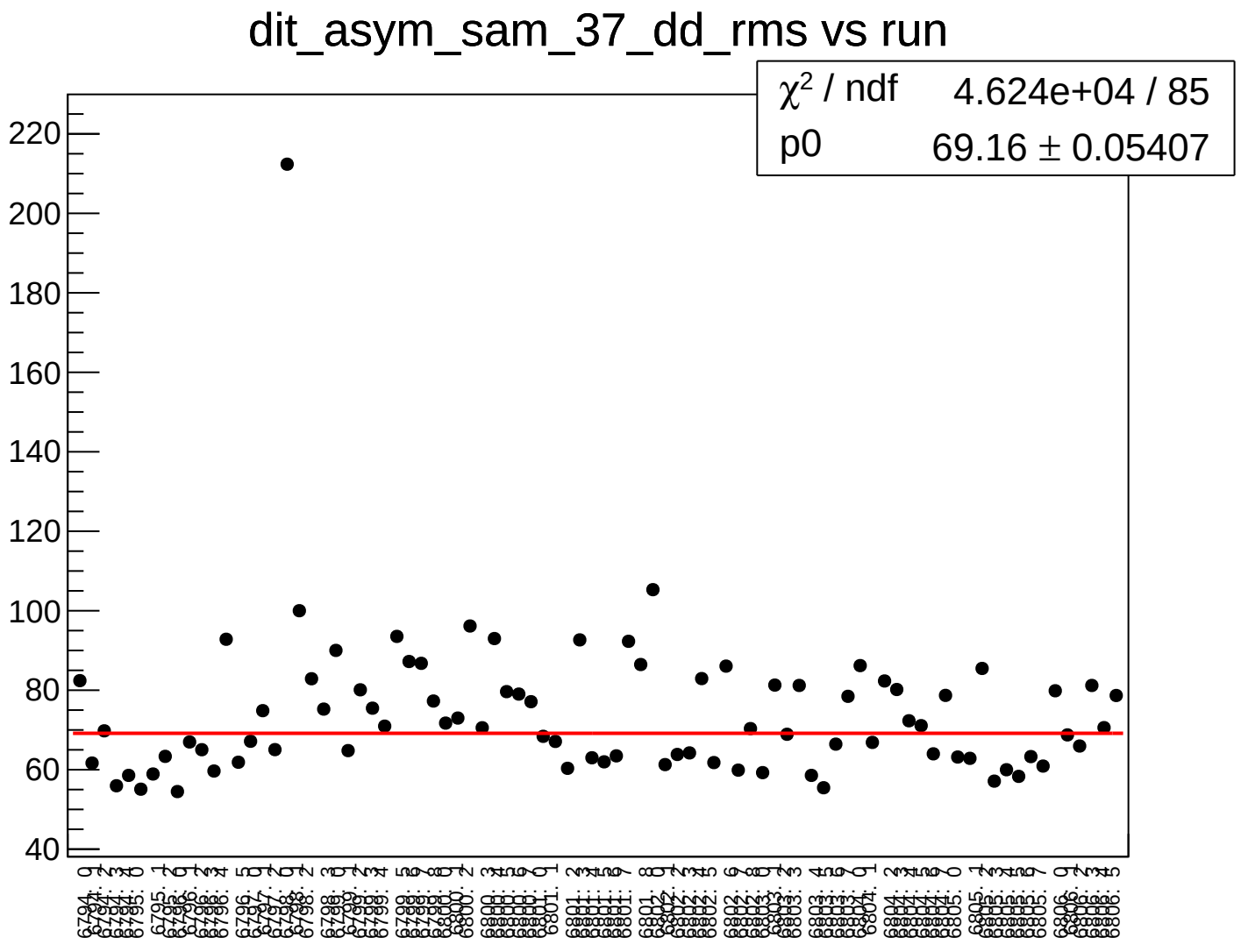

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 2.46e+04 / 85
p0 56.81 ± 0.04412
160
140
120
100
80
60
40

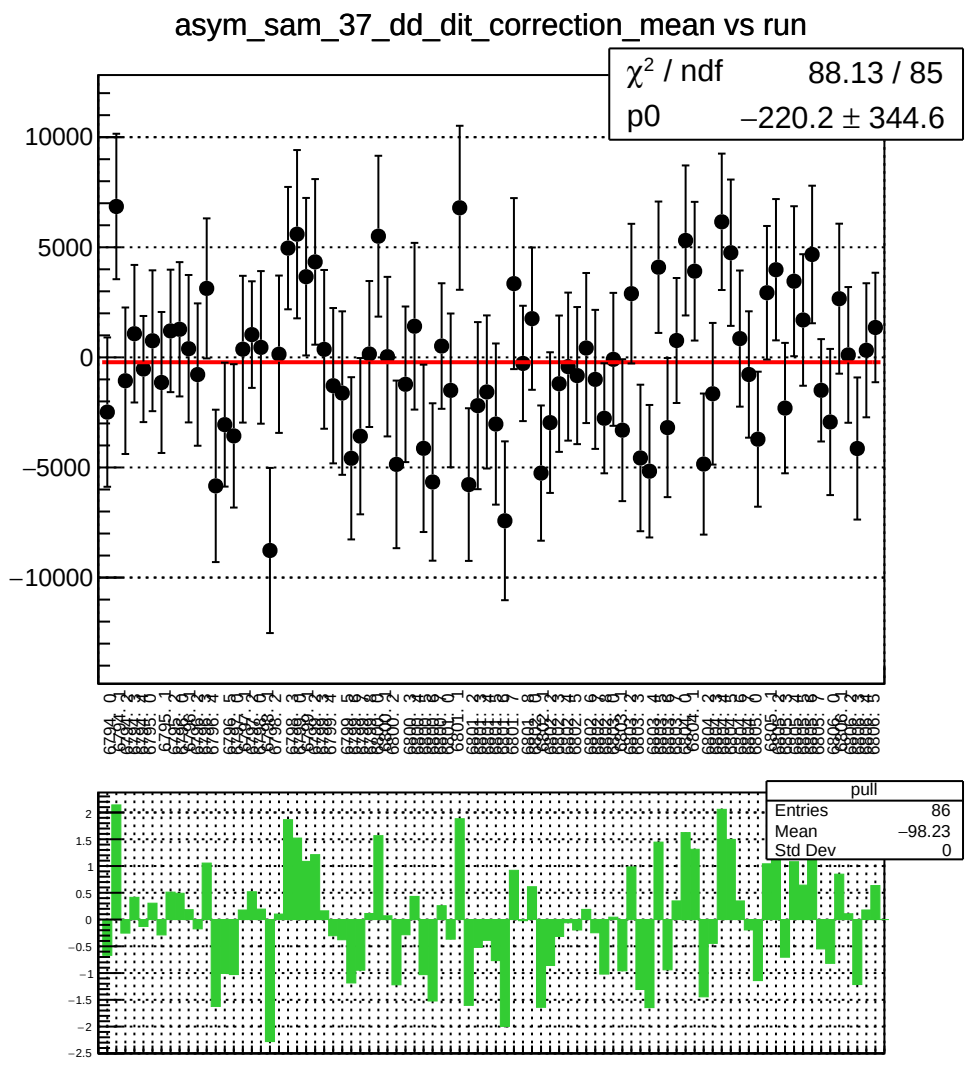

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 88.36 / 85
p0 −220.8 ± 388
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −41.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

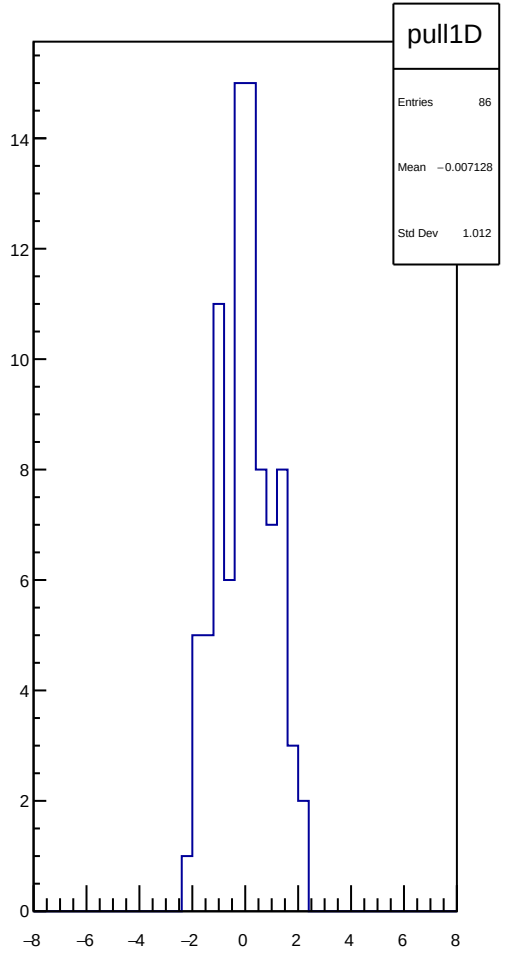

pull1D
Entries 86
Mean −0.01134
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

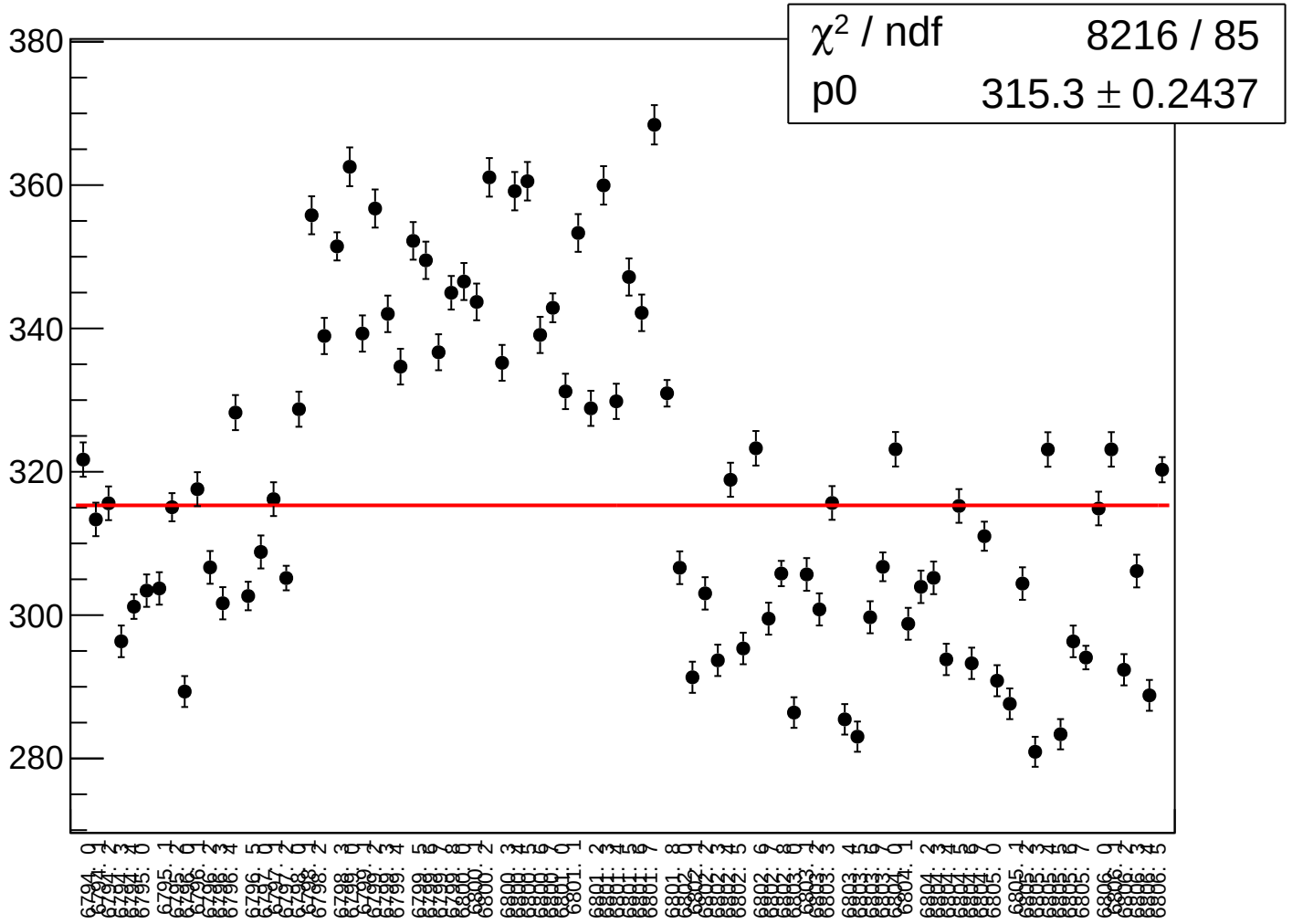

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.425e+04 / 85
p0 354.3 ± 0.2744
480
460
440
420
400
380
360
340
320
300
280

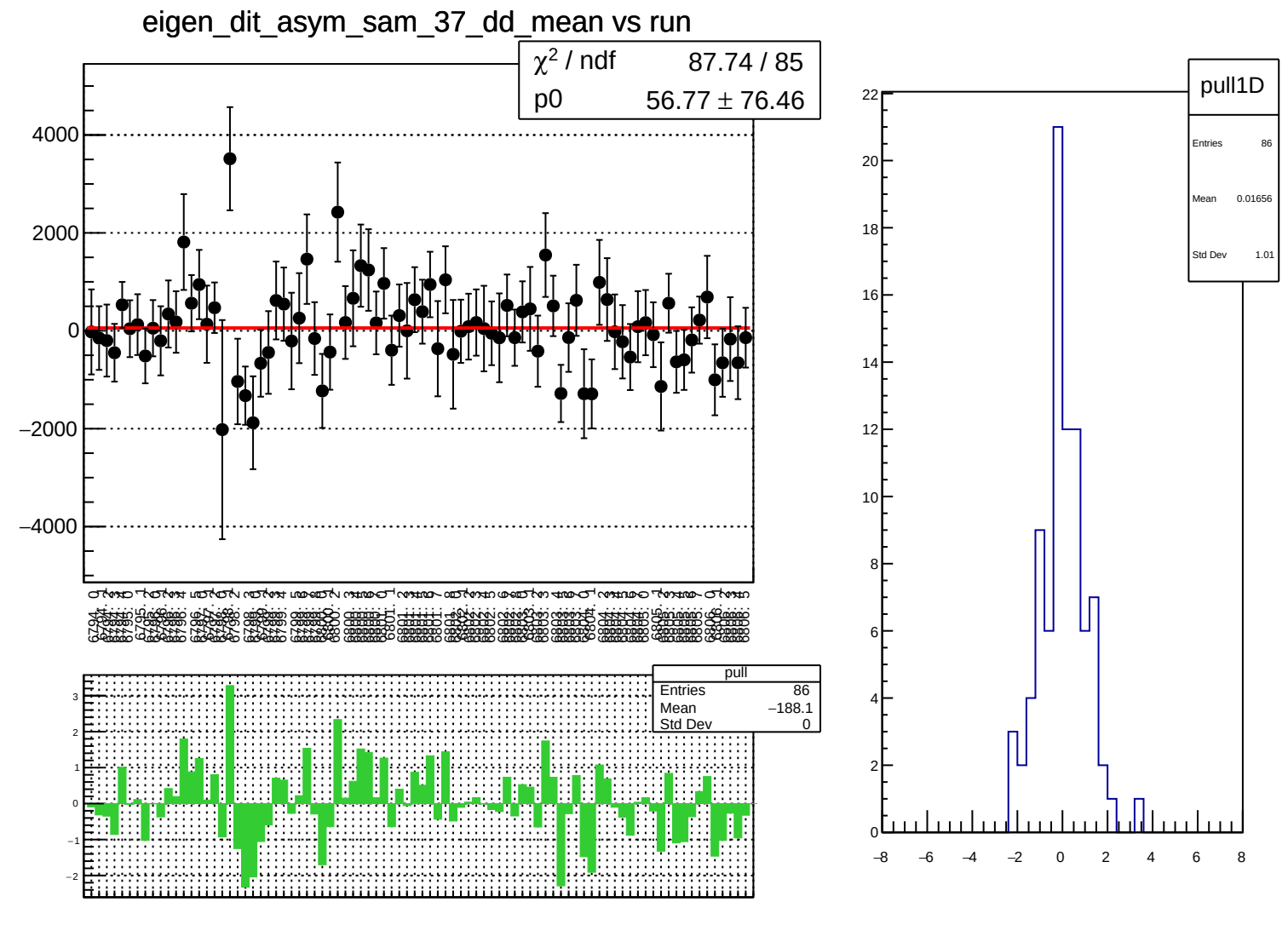

dit_asym_sam_37_dd_mean vs run
χ² / ndf 87.74 / 85
p0 56.77 ± 76.46
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −188.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01656
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

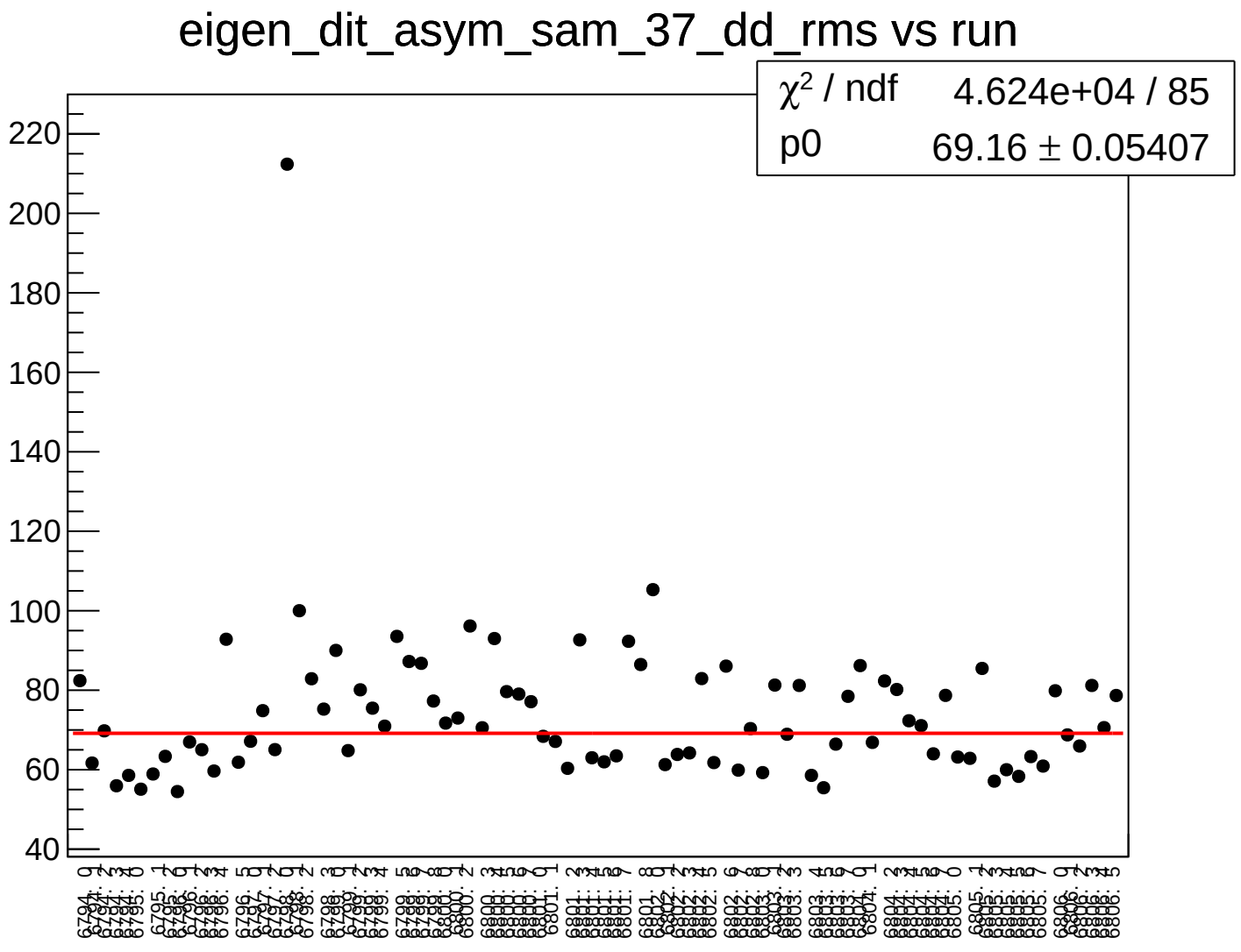

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4.624e+04 / 85
p0 69.16 ± 0.05407
220
200
180
160
140
120
100
80
60
40

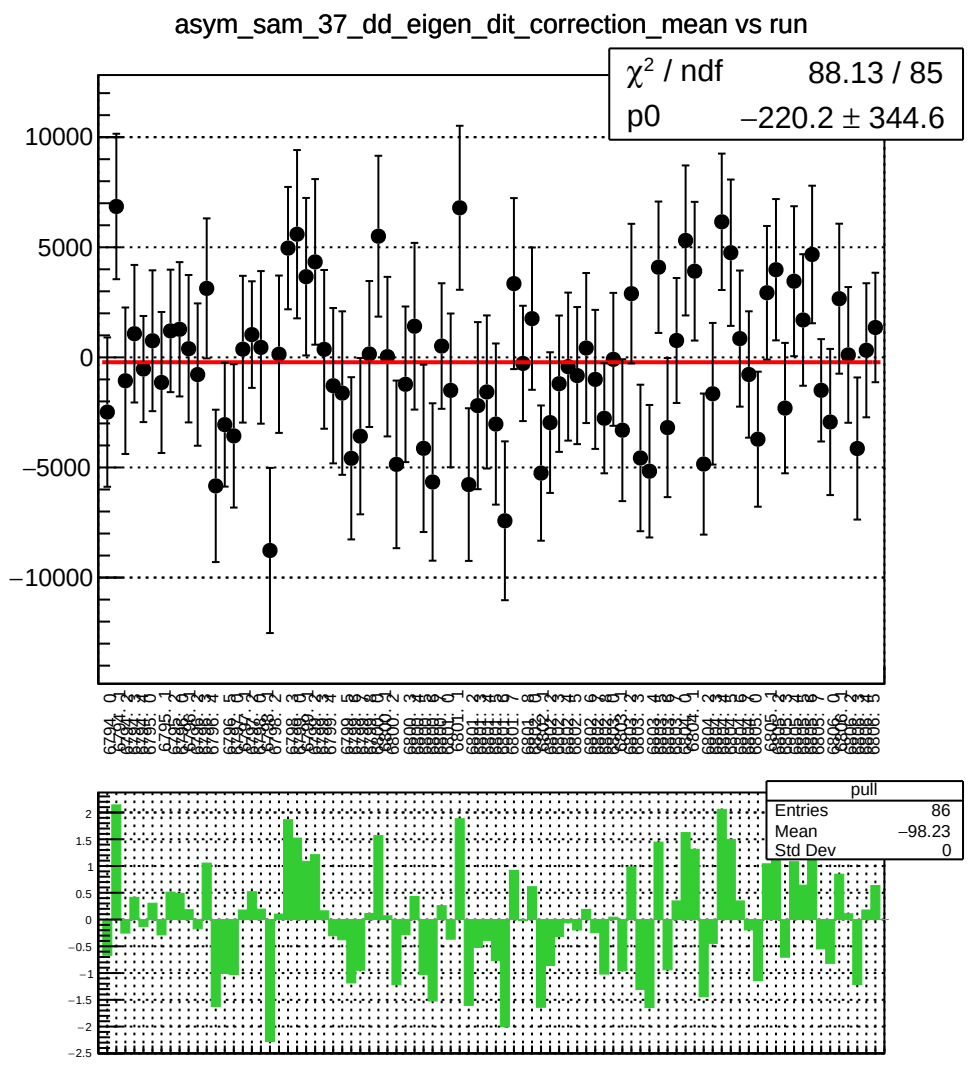

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 88.13 / 85
p0 −220.2 ± 344.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −98.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

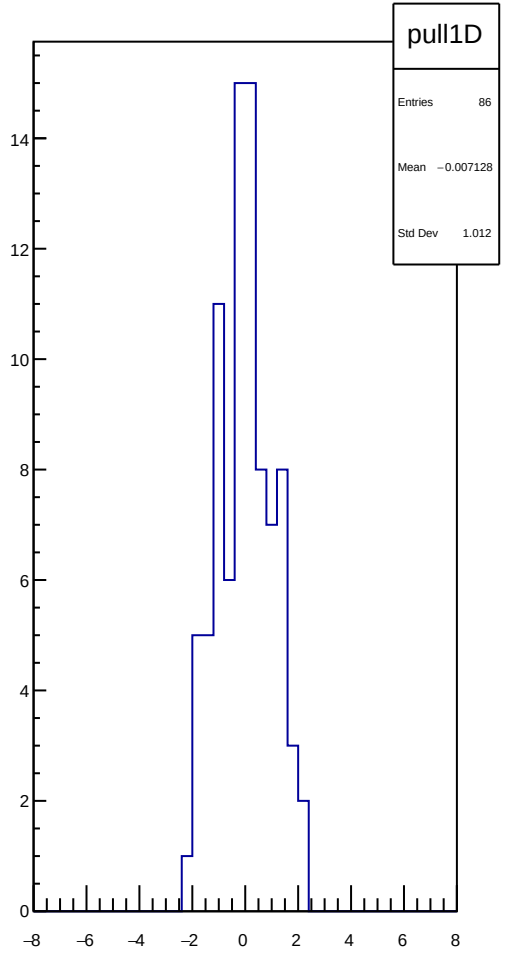

pull1D
Entries 86
Mean −0.007128
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

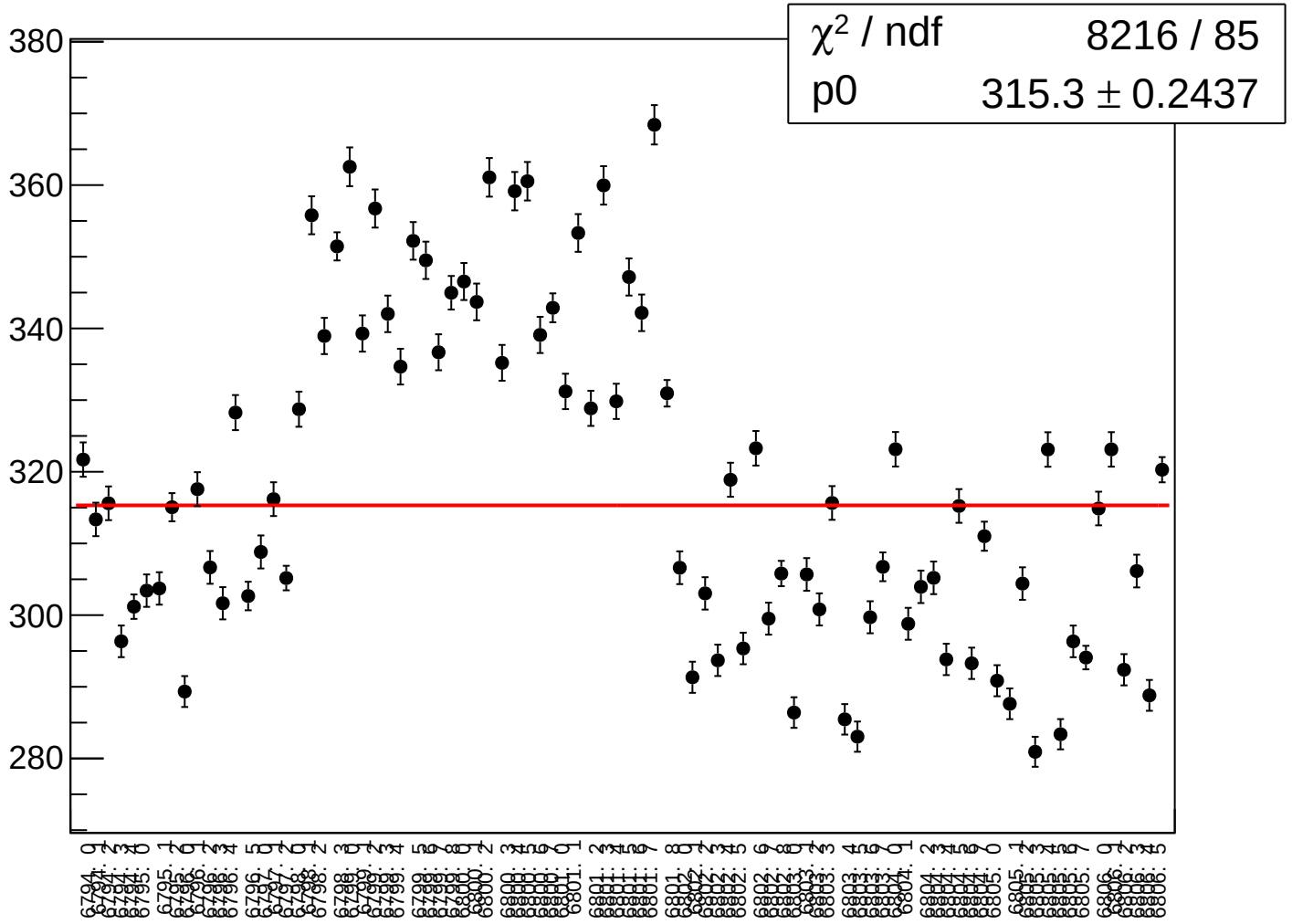

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 8216 / 85
p0 315.3 ± 0.2437
380
360
340
320
300
280

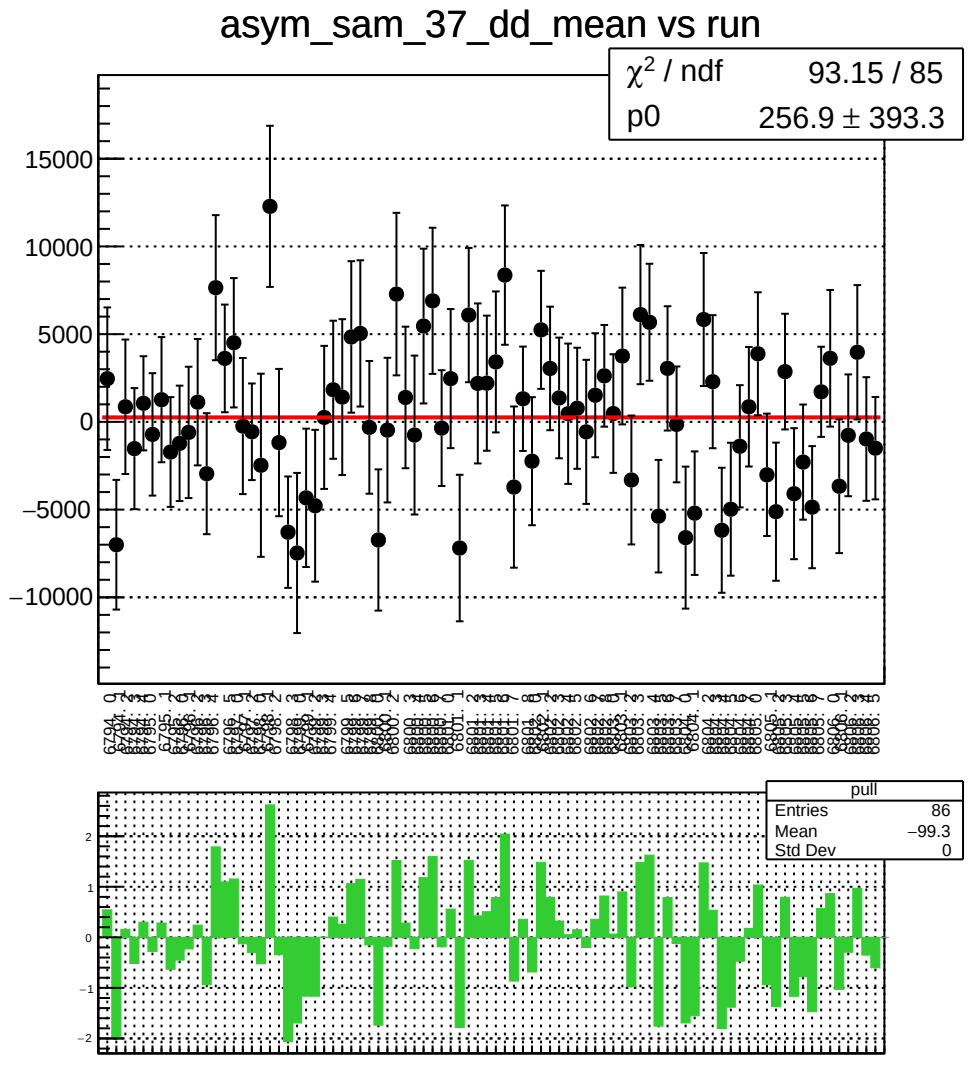

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 87.74 / 85
p0 56.77 ± 76.46
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −188.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01656
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

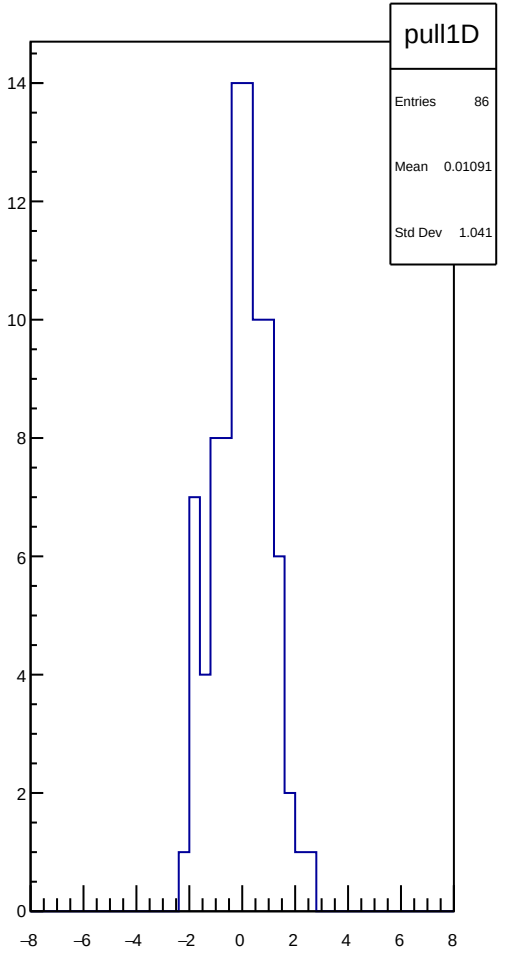

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.624e+04 / 85
p0 69.16 ± 0.05407
220
200
180
160
140
120
100
80
60
40

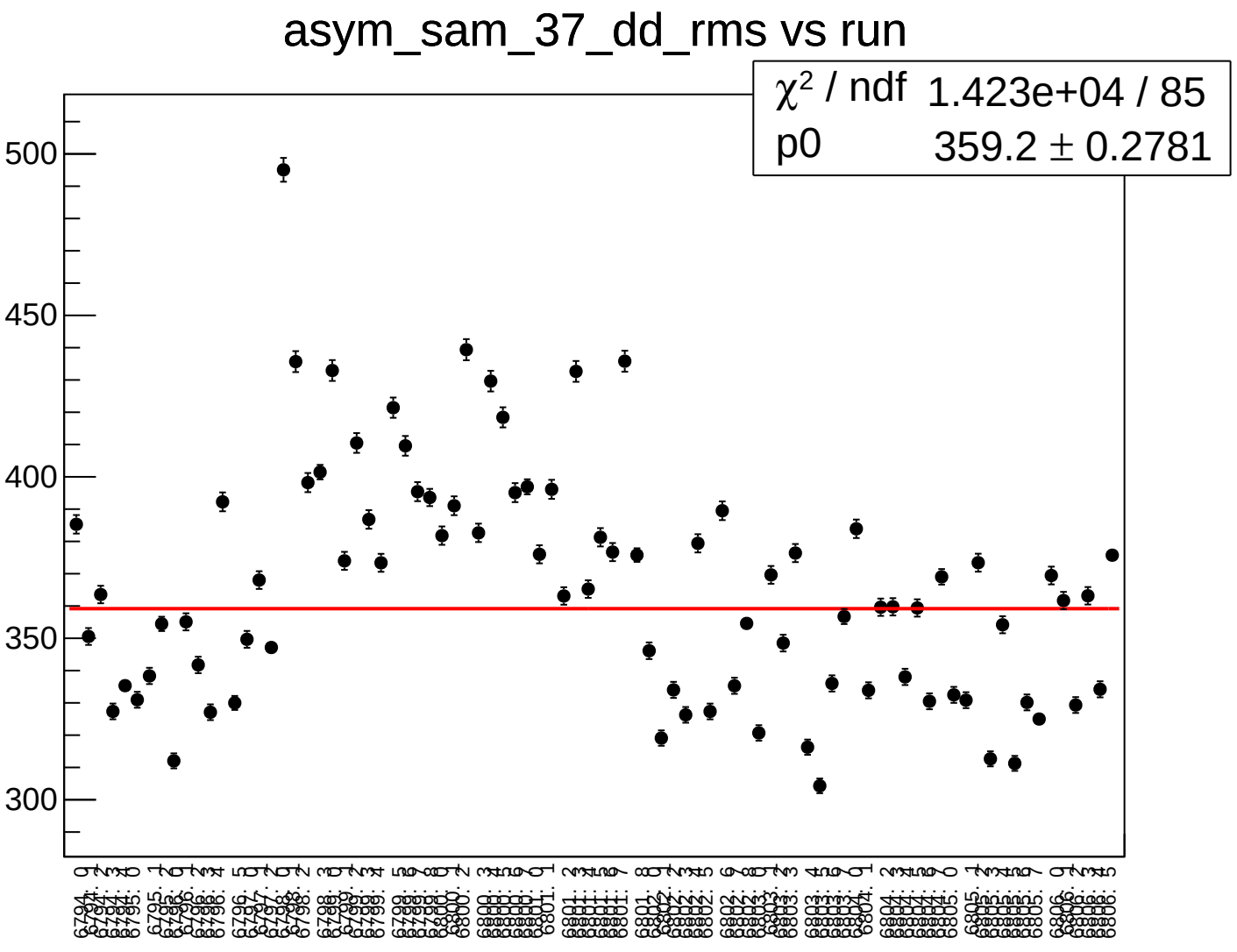

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 88.13 / 85
p0 −220.2 ± 344.6
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −98.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

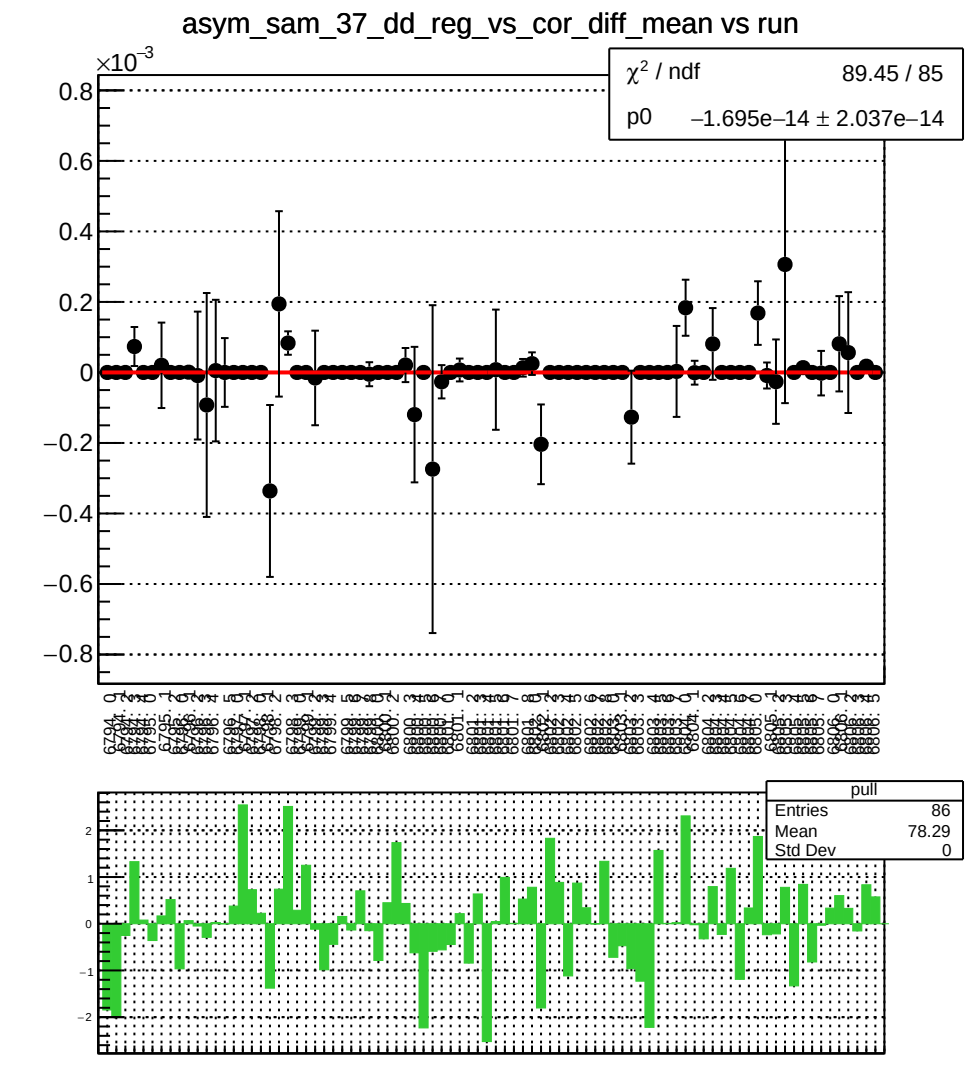

pull1D
Entries 86
Mean −0.007128
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

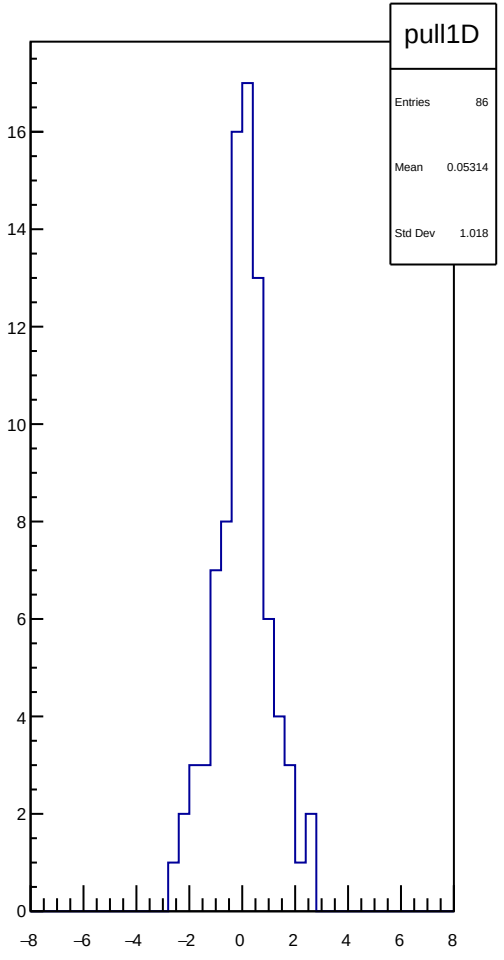

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 8216 / 85
p0 315.3 ± 0.2437
380
360
340
320
300
280

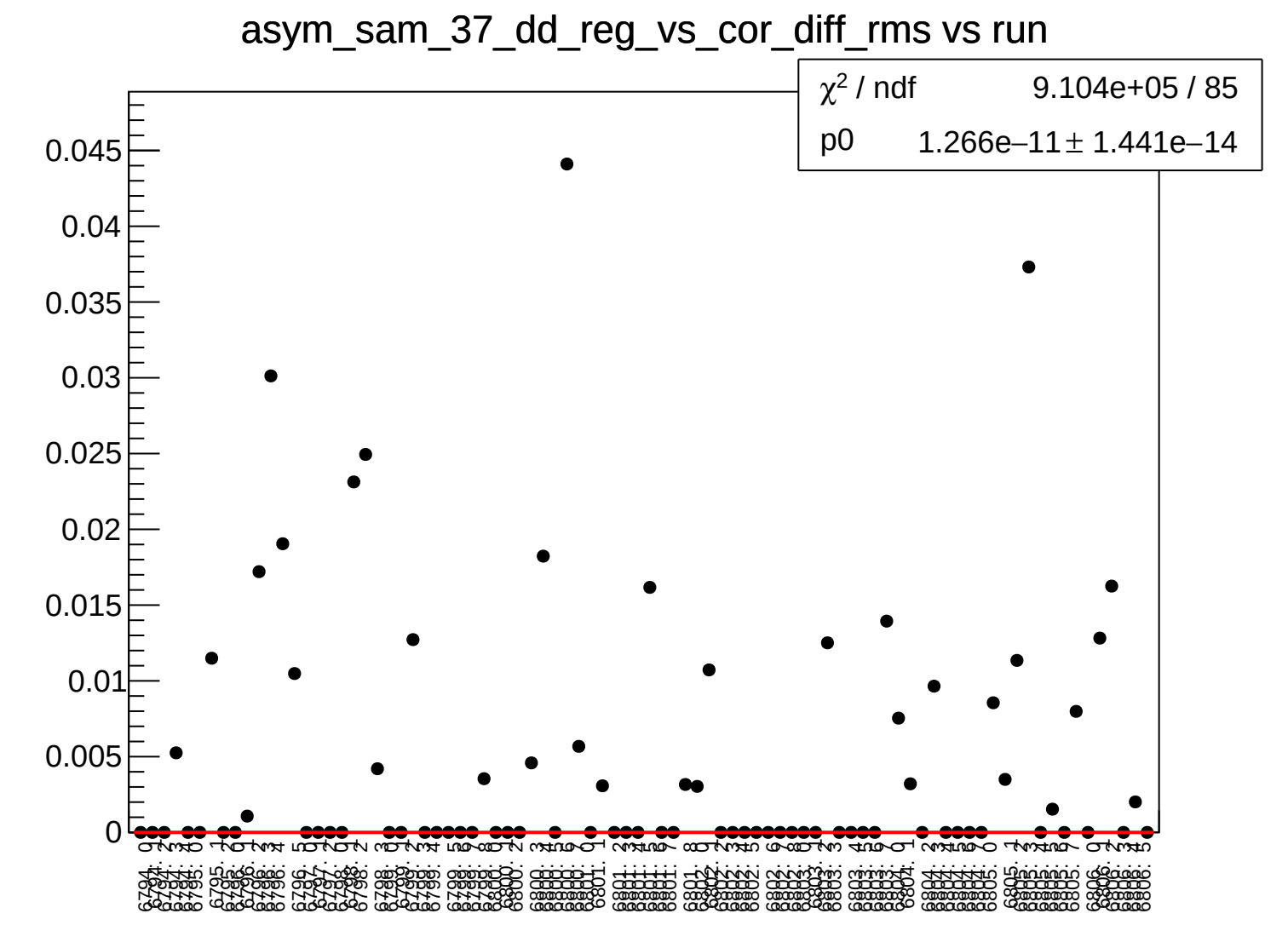

asym_sam_37_dd_mean vs run
χ² / ndf 93.15 / 85
p0 256.9 ± 393.3
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −99.3
Std Dev 0
2
1
0
−1
−2

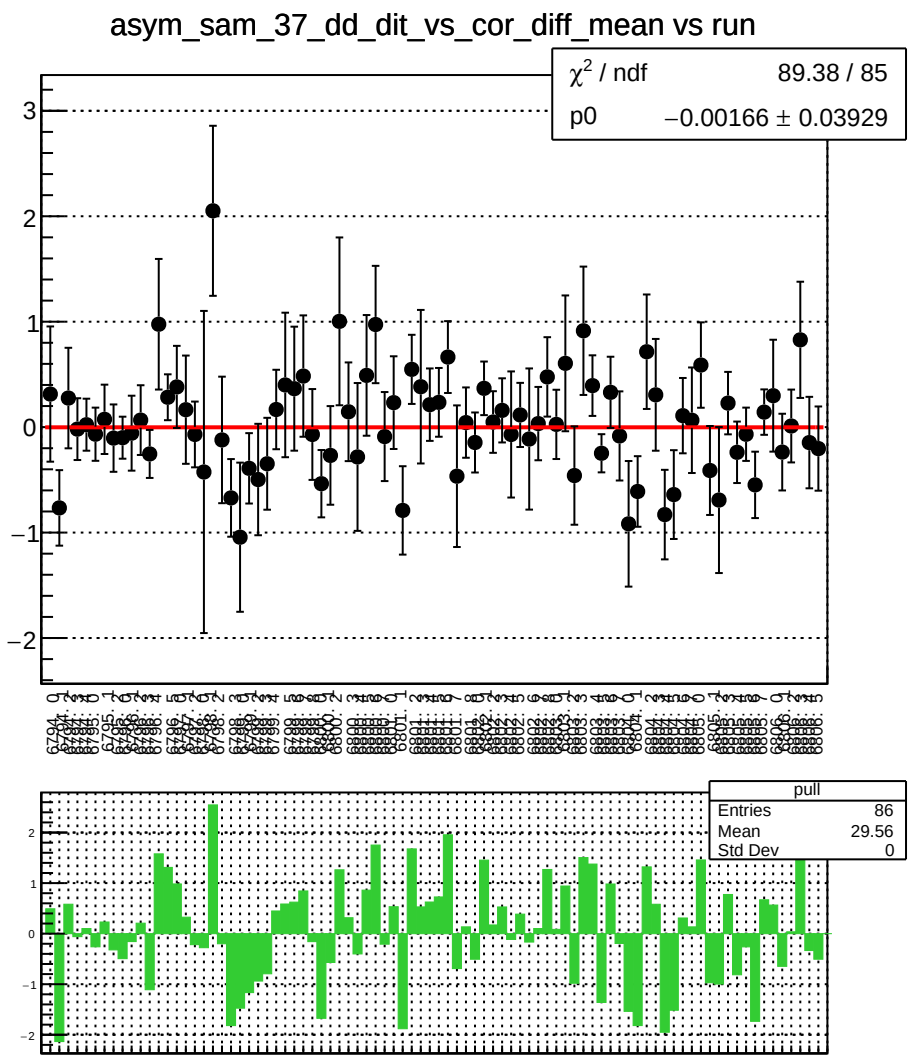

pull1D
Entries 86
Mean 0.01091
Std Dev 1.041
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

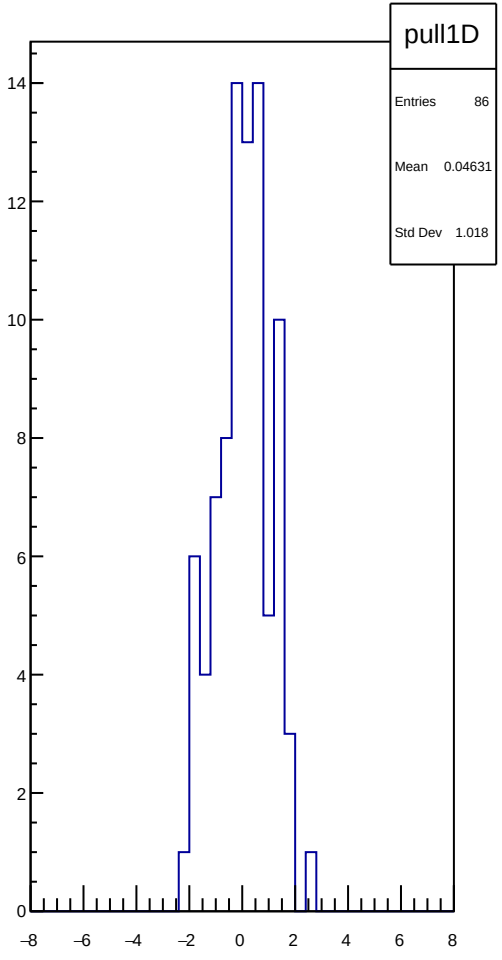

asym_sam_37_dd_rms vs run
χ² / ndf 1.423e+04 / 85
p0 359.2 ± 0.2781
500
450
400
350
300

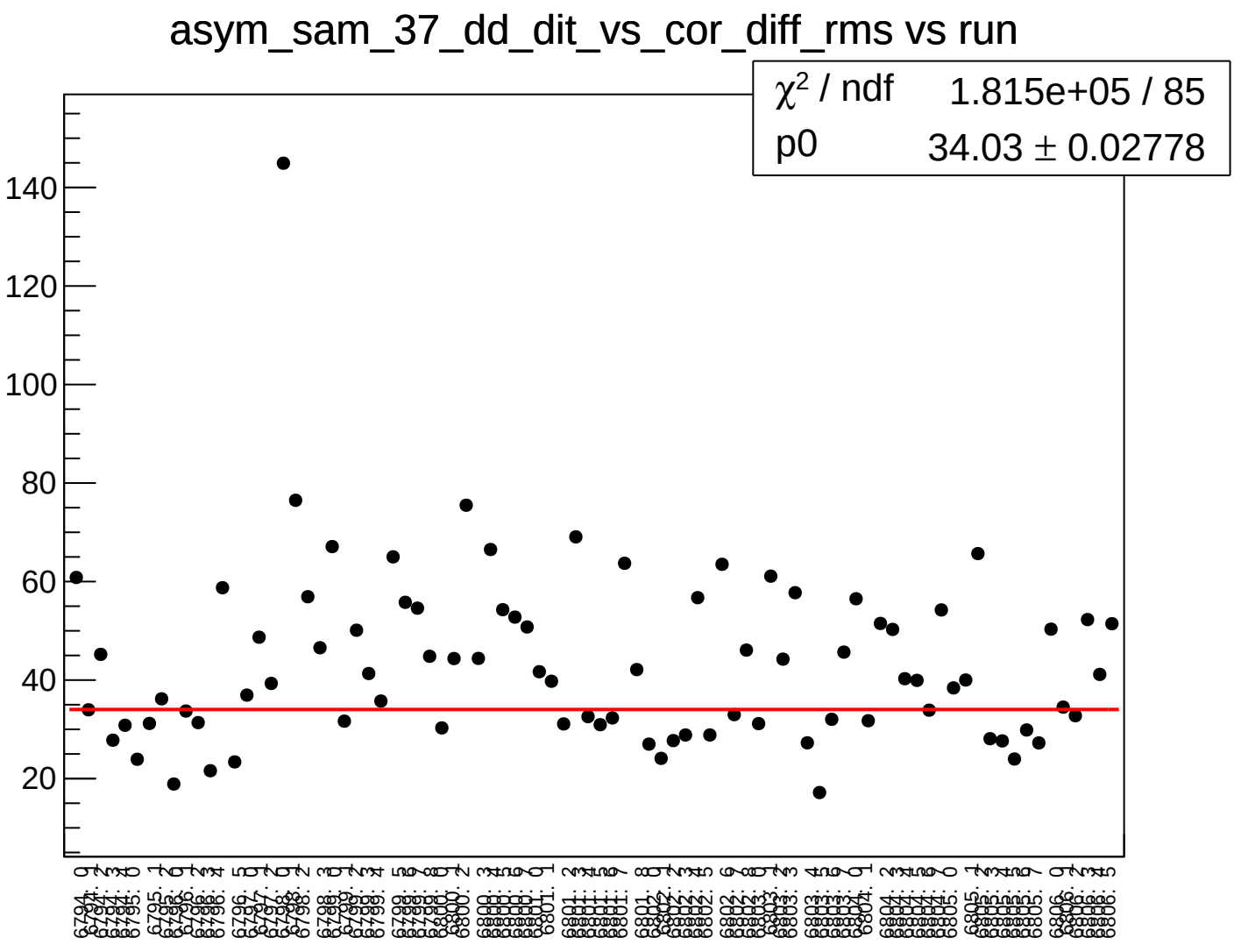

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 89.45 / 85
p0 −1.695e−14 ± 2.037e−14
pull
Entries 86
Mean 78.29
Std Dev 0

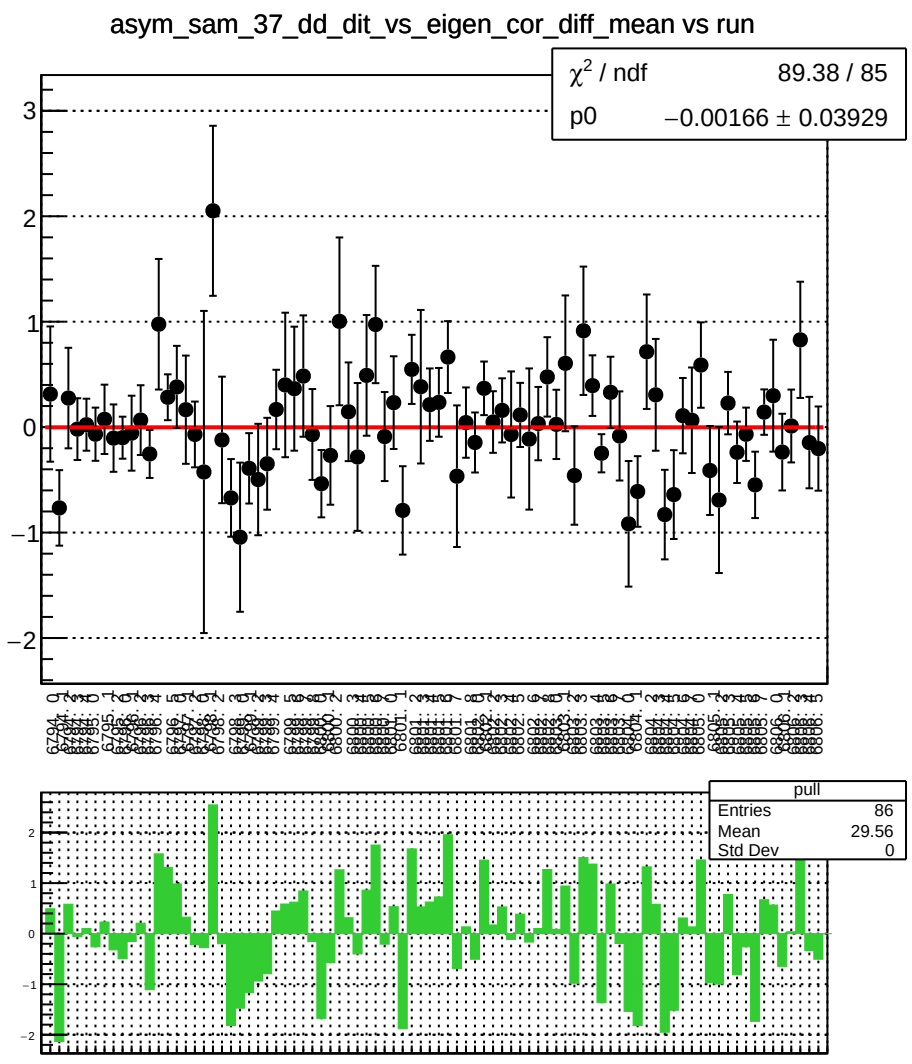

pull1D
Entries 86
Mean 0.05314
Std Dev 1.018

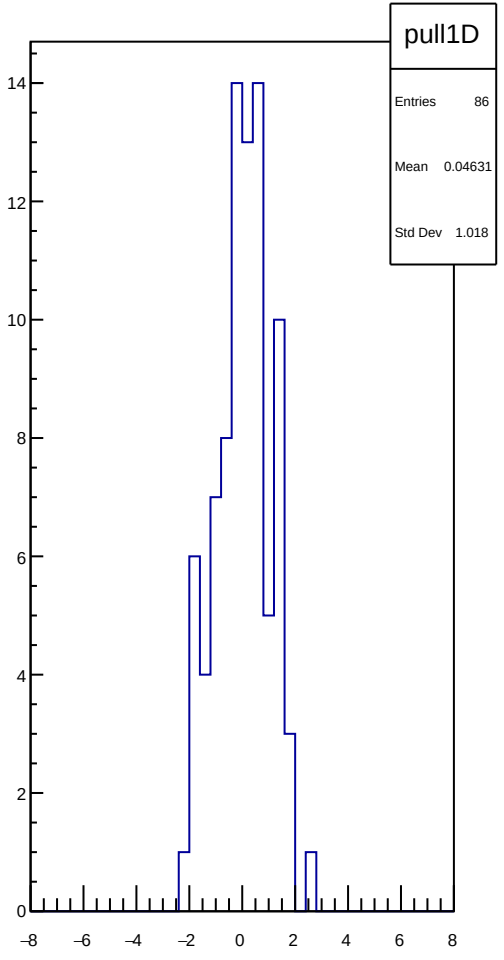

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.104e+05 / 85
p0 1.266e−11 ± 1.441e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

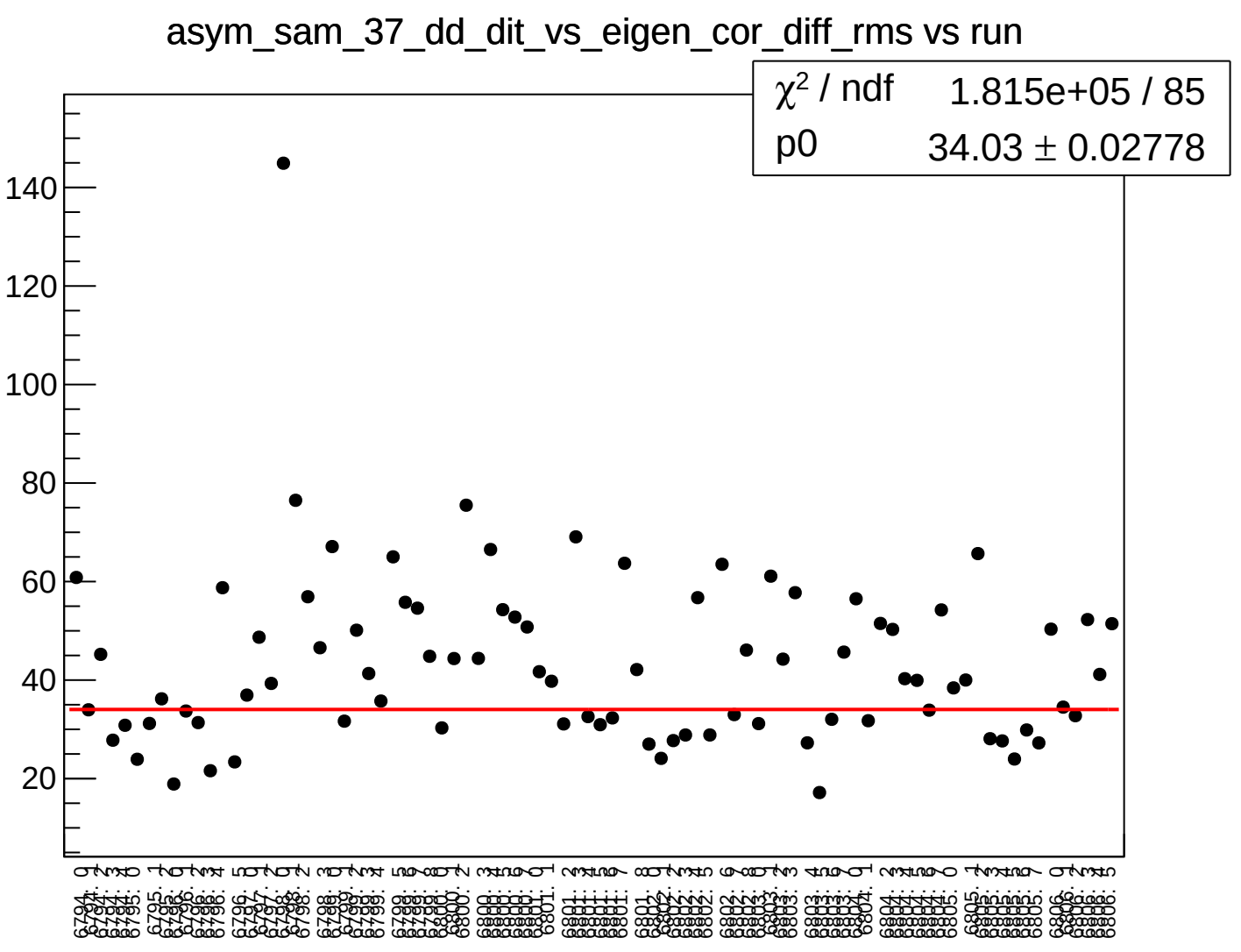

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.38 / 85
p0 −0.00166 ± 0.03929
pull
Entries 86
Mean 29.56
Std Dev 0

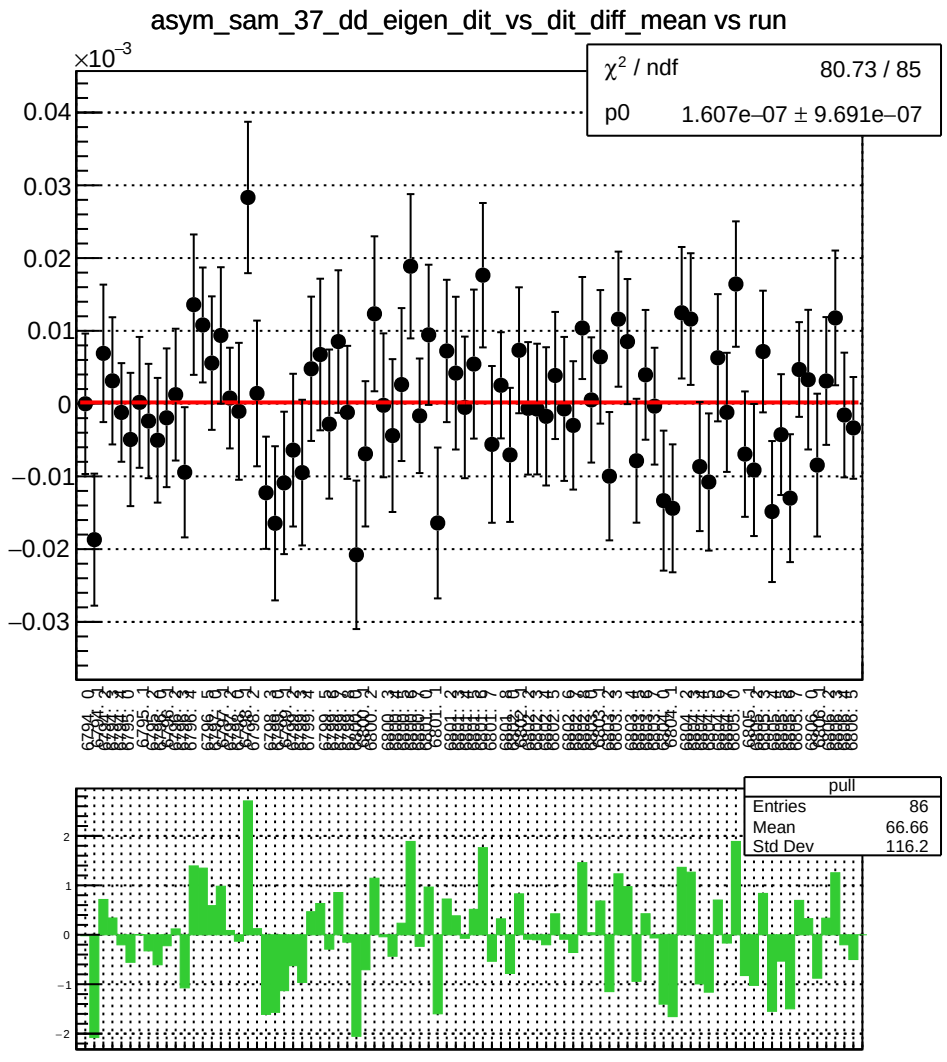

pull1D
Entries 86
Mean 0.04631
Std Dev 1.018

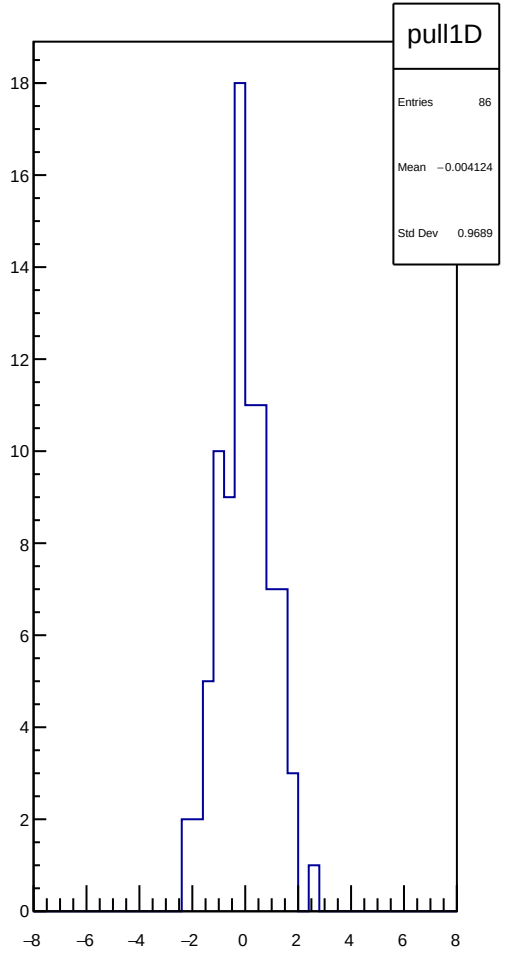

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.815e+05 / 85
p0 34.03 ± 0.02778
140
120
100
80
60
40
20

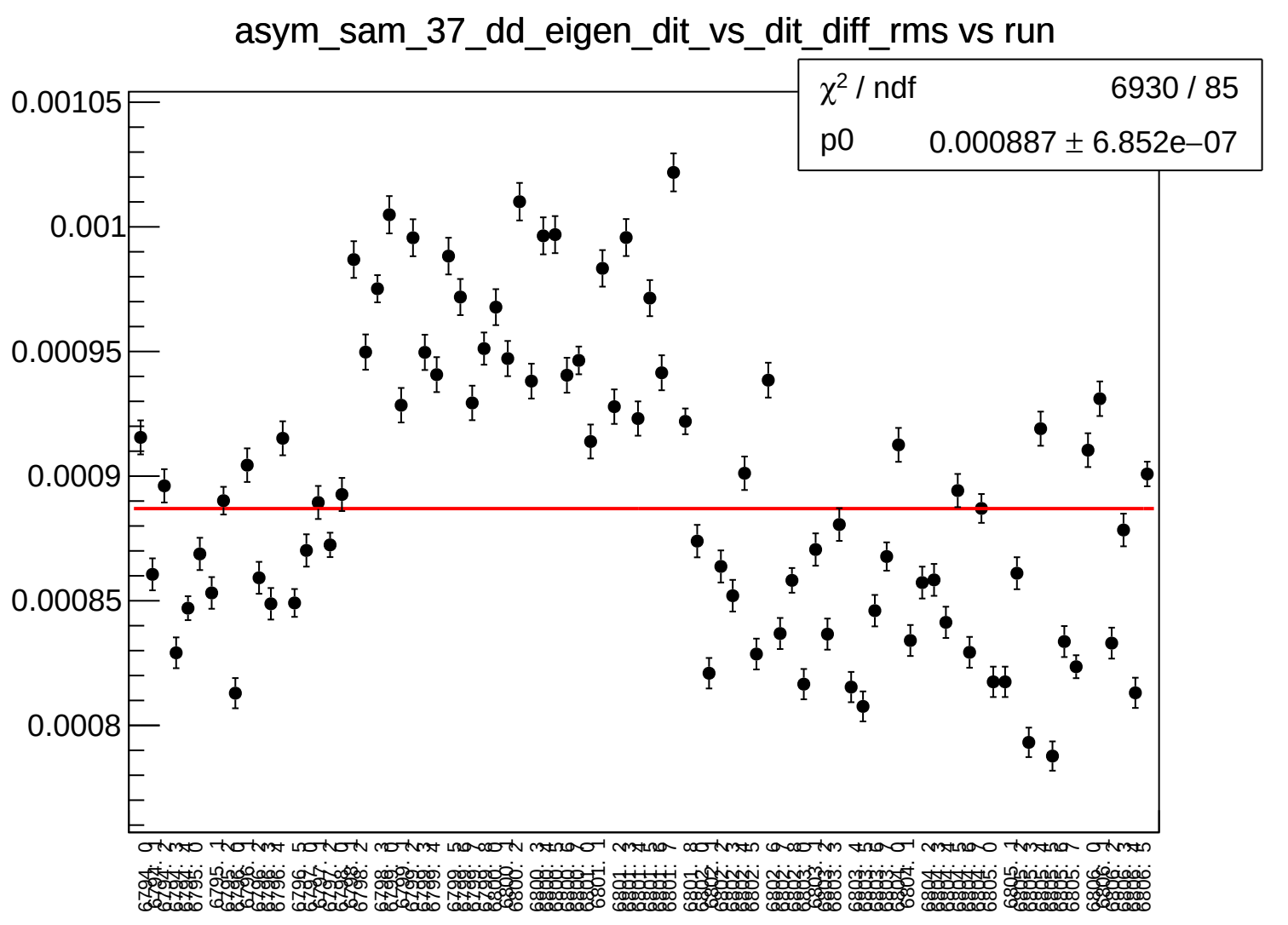

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.38 / 85
p0 −0.00166 ± 0.03929
pull
Entries 86
Mean 29.56
Std Dev 0

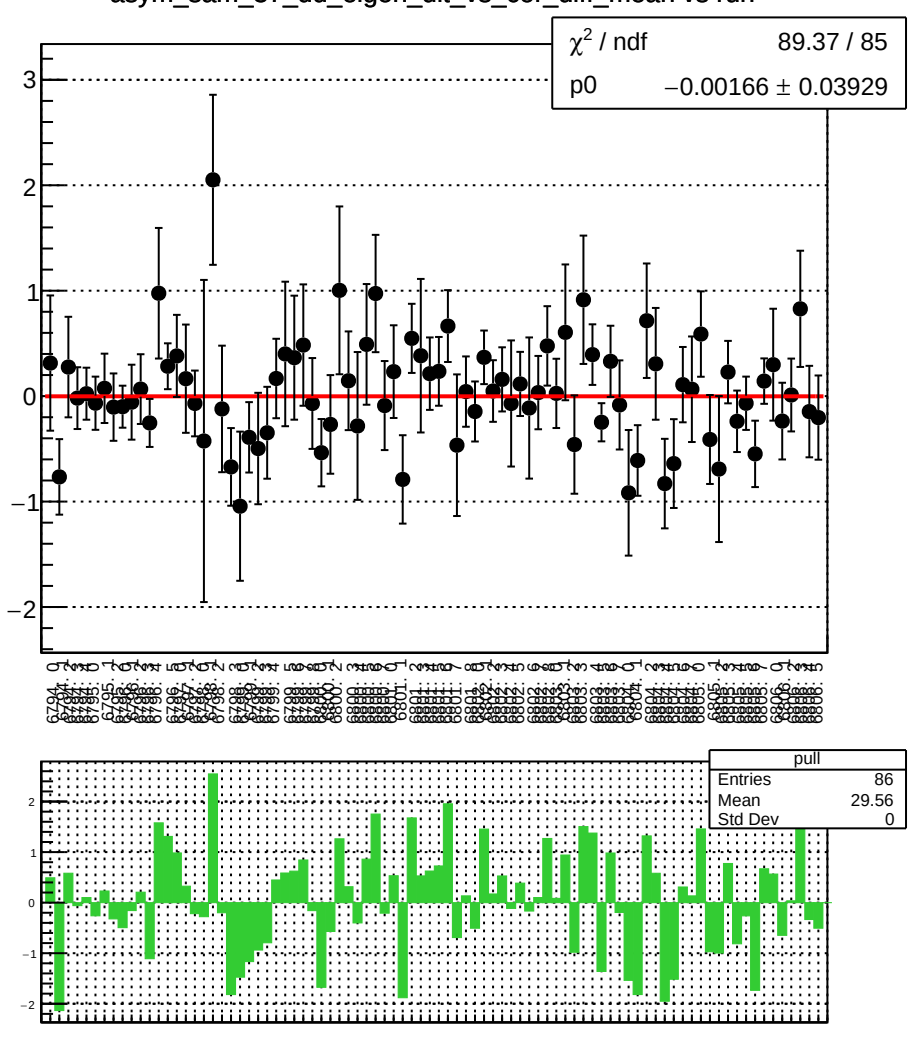

pull1D
Entries 86
Mean 0.04631
Std Dev 1.018

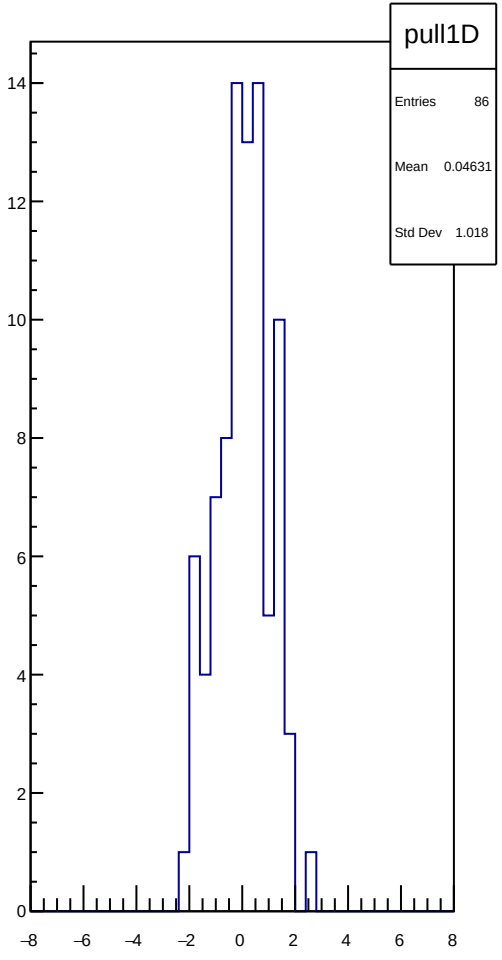

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.815e+05 / 85
p0 34.03 ± 0.02778
140
120
100
80
60
40
20

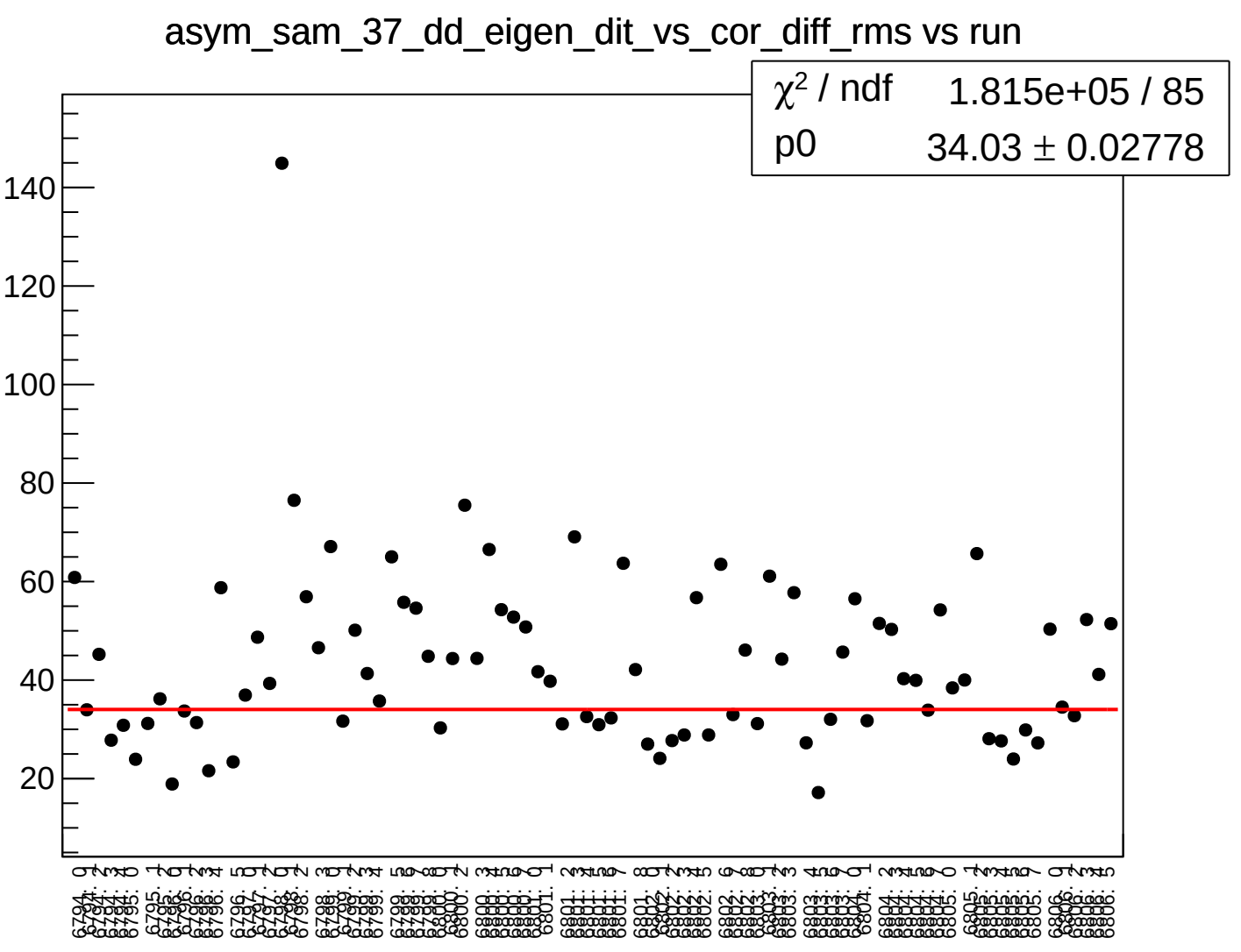

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.73 / 85
p0 1.607e−07 ± 9.691e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean 66.66
Std Dev 116.2
2
1
0
−1
−2

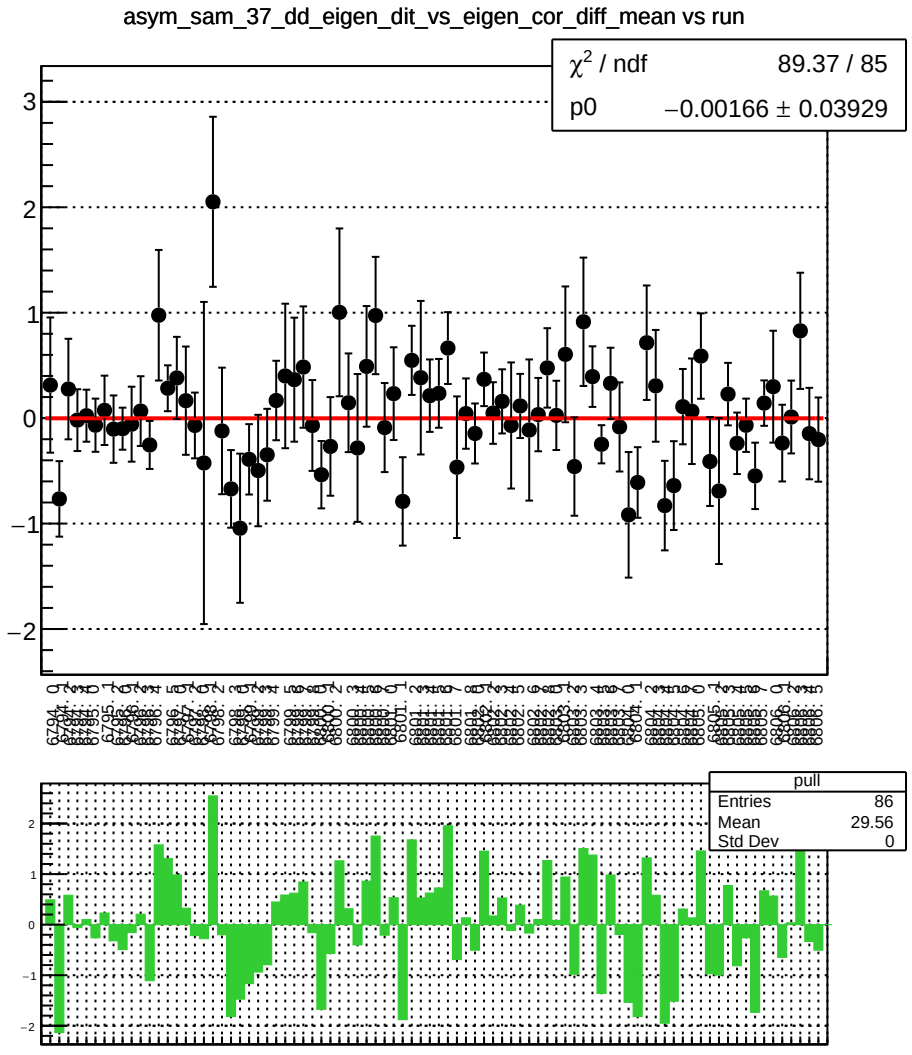

pull1D
Entries 86
Mean −0.004124
Std Dev 0.9689
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

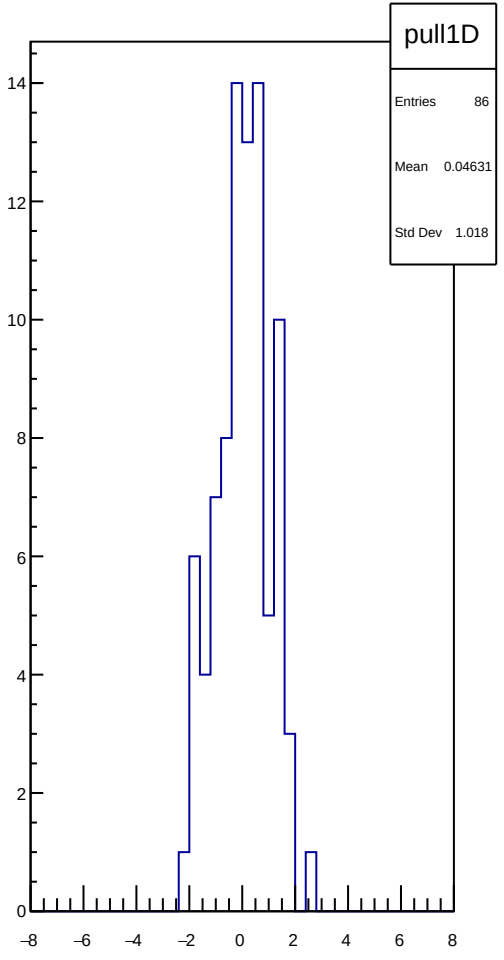

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6930 / 85
p0 0.000887 ± 6.852e−07
0.00105
0.001
0.00095
0.0009
0.00085
0.0008

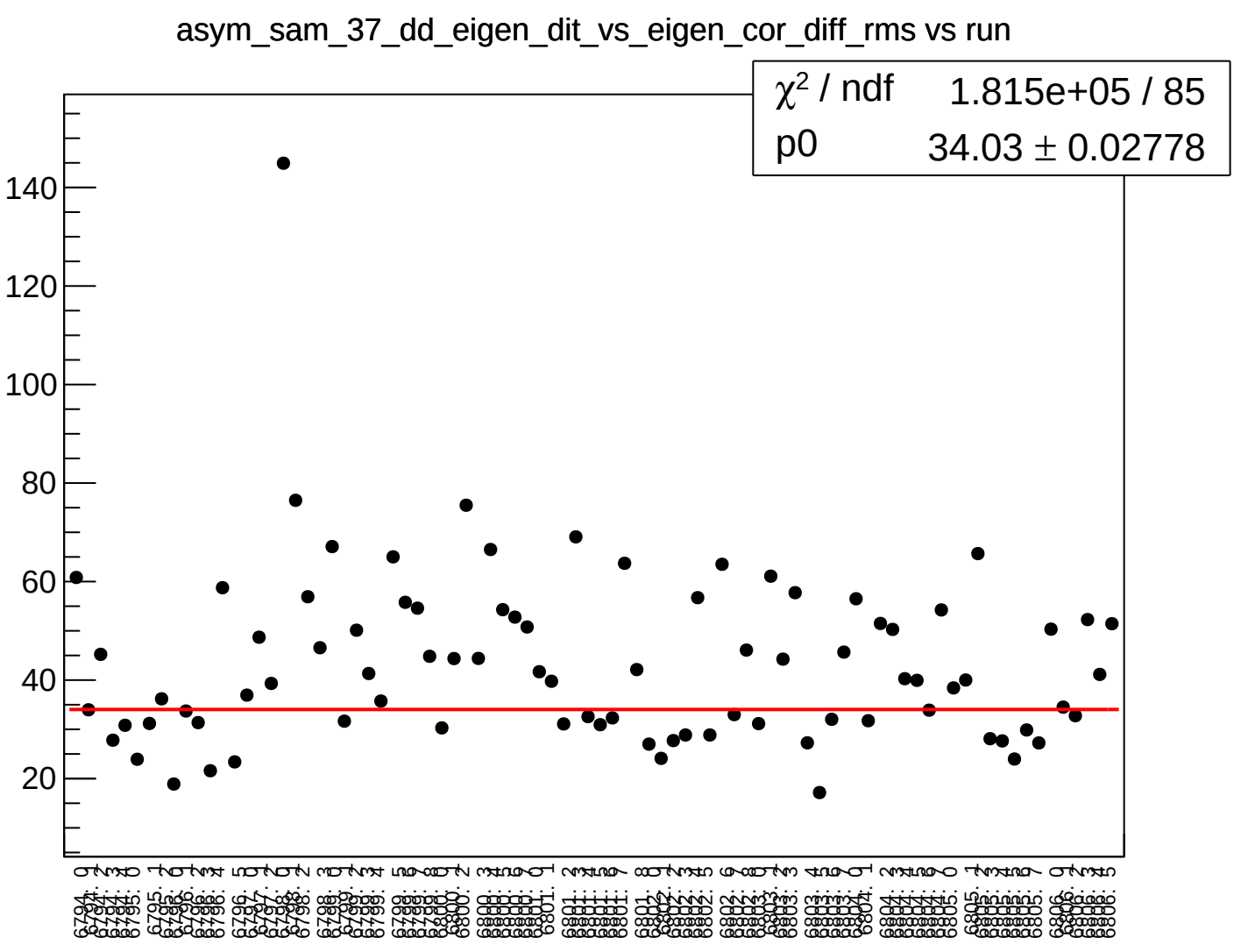

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.37 / 85
p0 −0.00166 ± 0.03929
pull
Entries 86
Mean 29.56
Std Dev 0

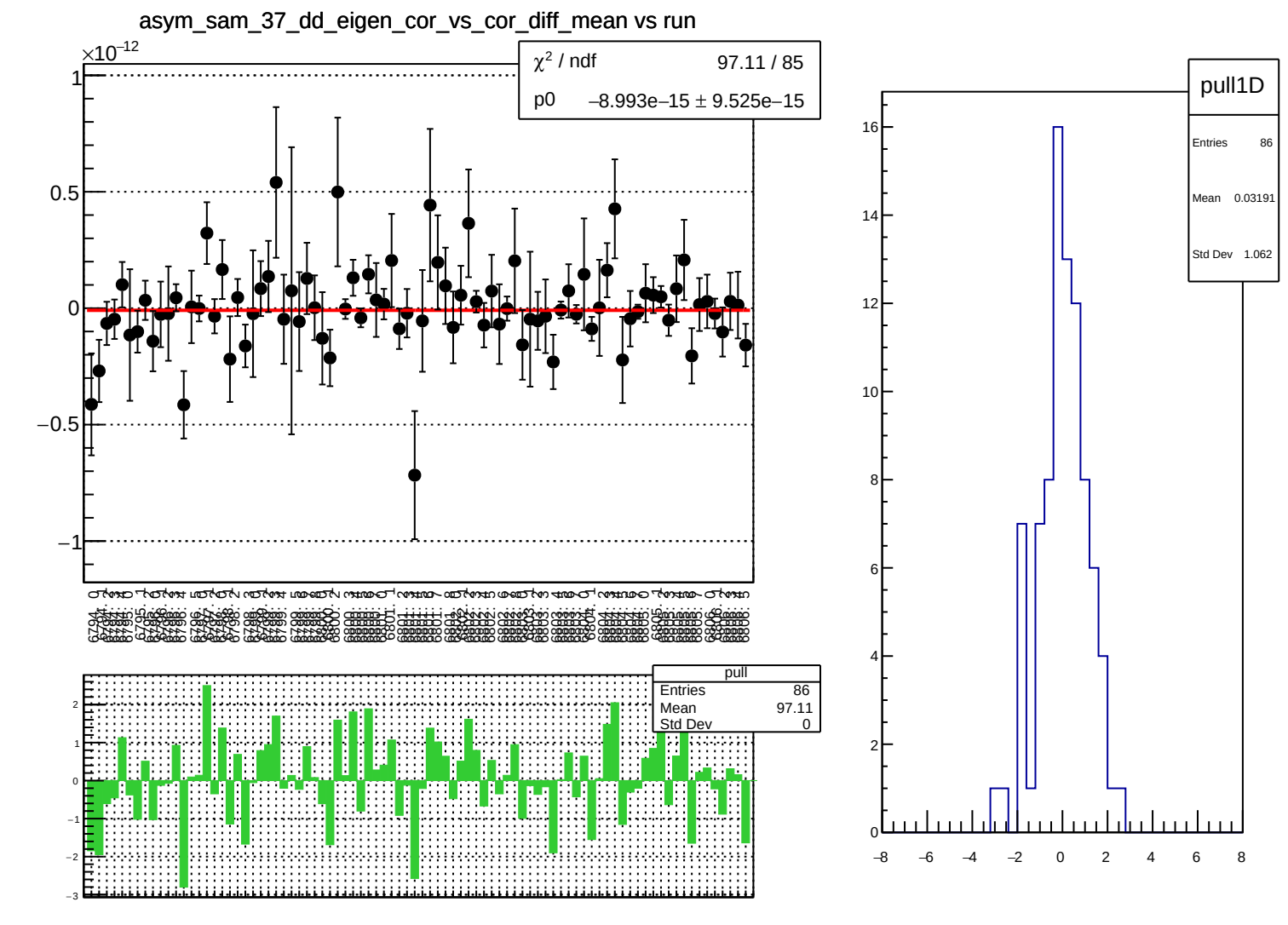

pull1D
Entries 86
Mean 0.04631
Std Dev 1.018

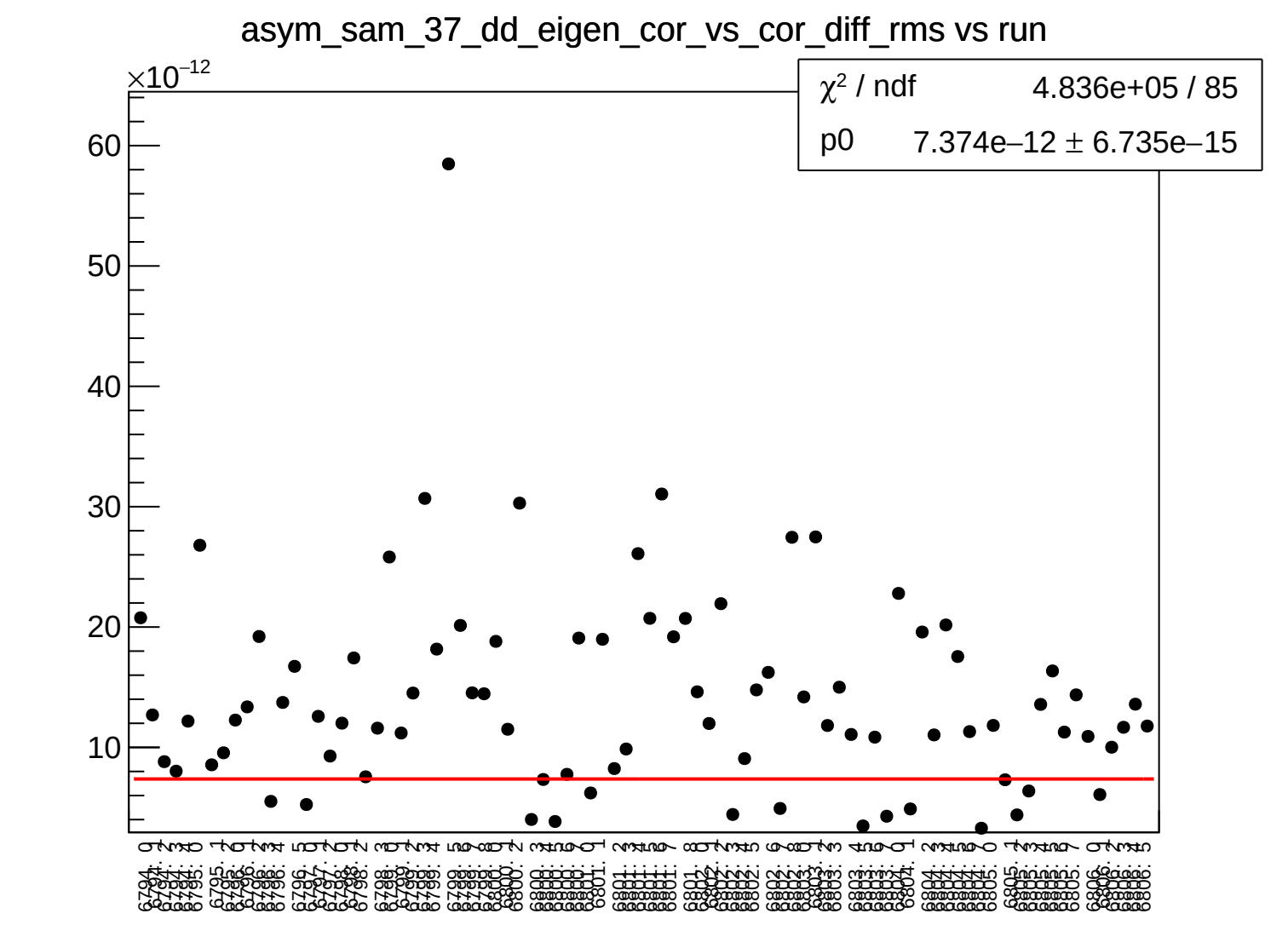

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.815e+05 / 85
p0 34.03 ± 0.02778
140
120
100
80
60
40
20

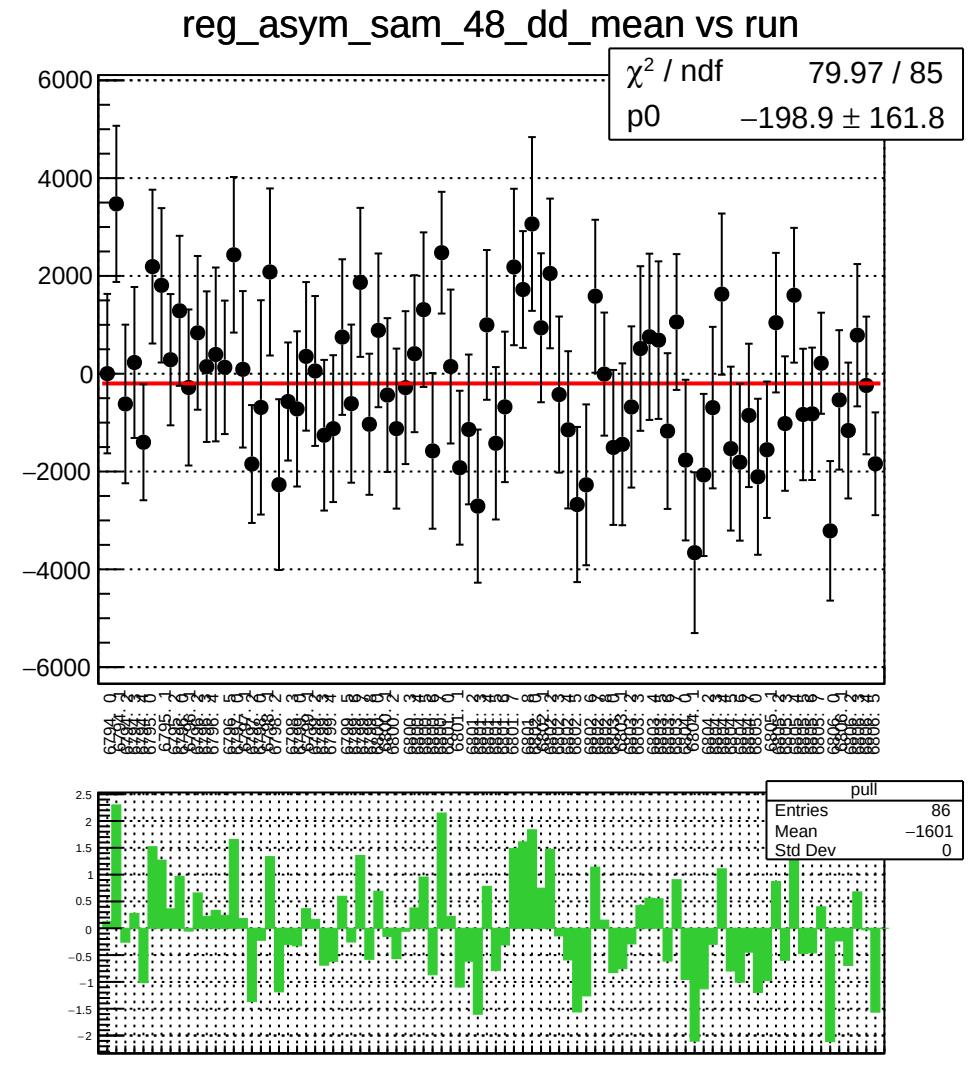

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.37 / 85
p0 −0.00166 ± 0.03929
pull
Entries 86
Mean 29.56
Std Dev 0

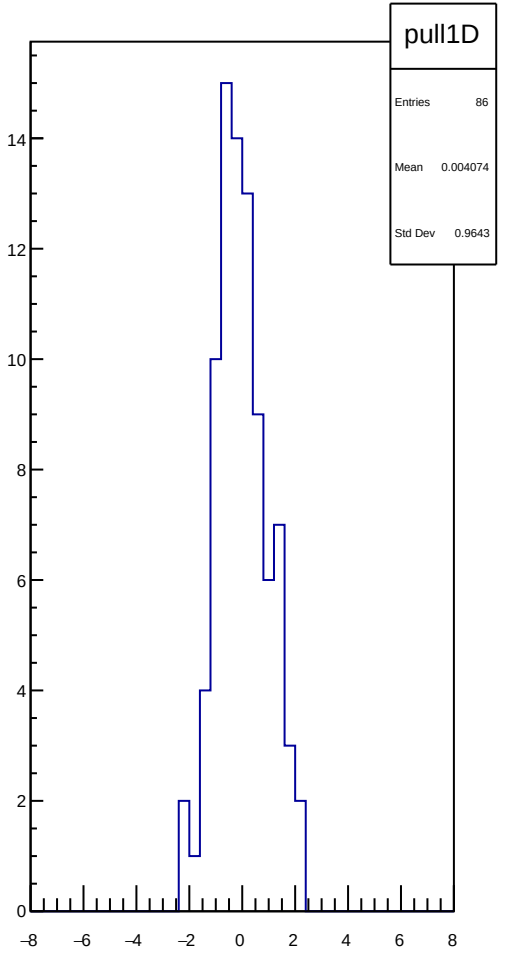

pull1D
Entries 86
Mean 0.04631
Std Dev 1.018

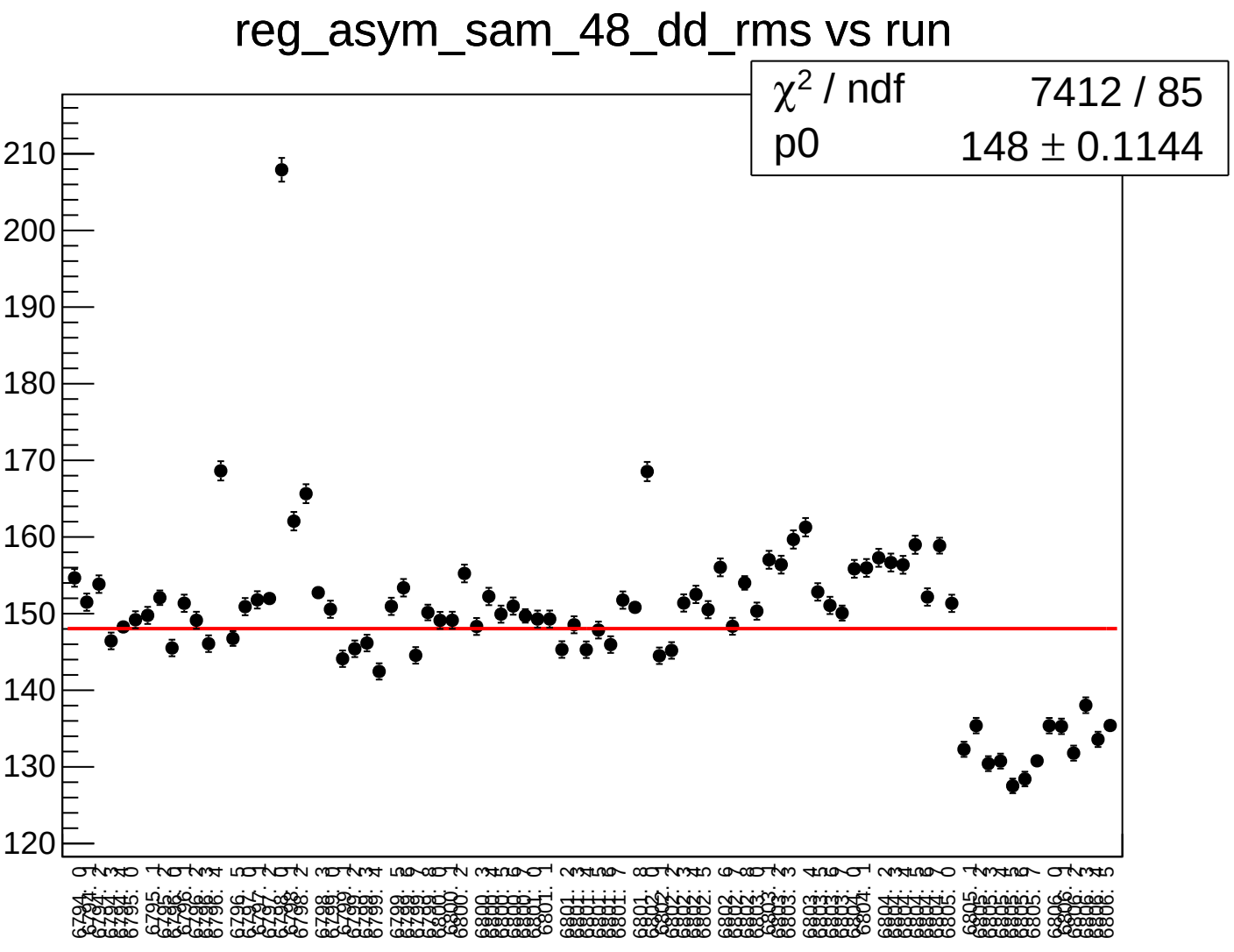

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.815e+05 / 85
p0 34.03 ± 0.02778
140
120
100
80
60
40
20

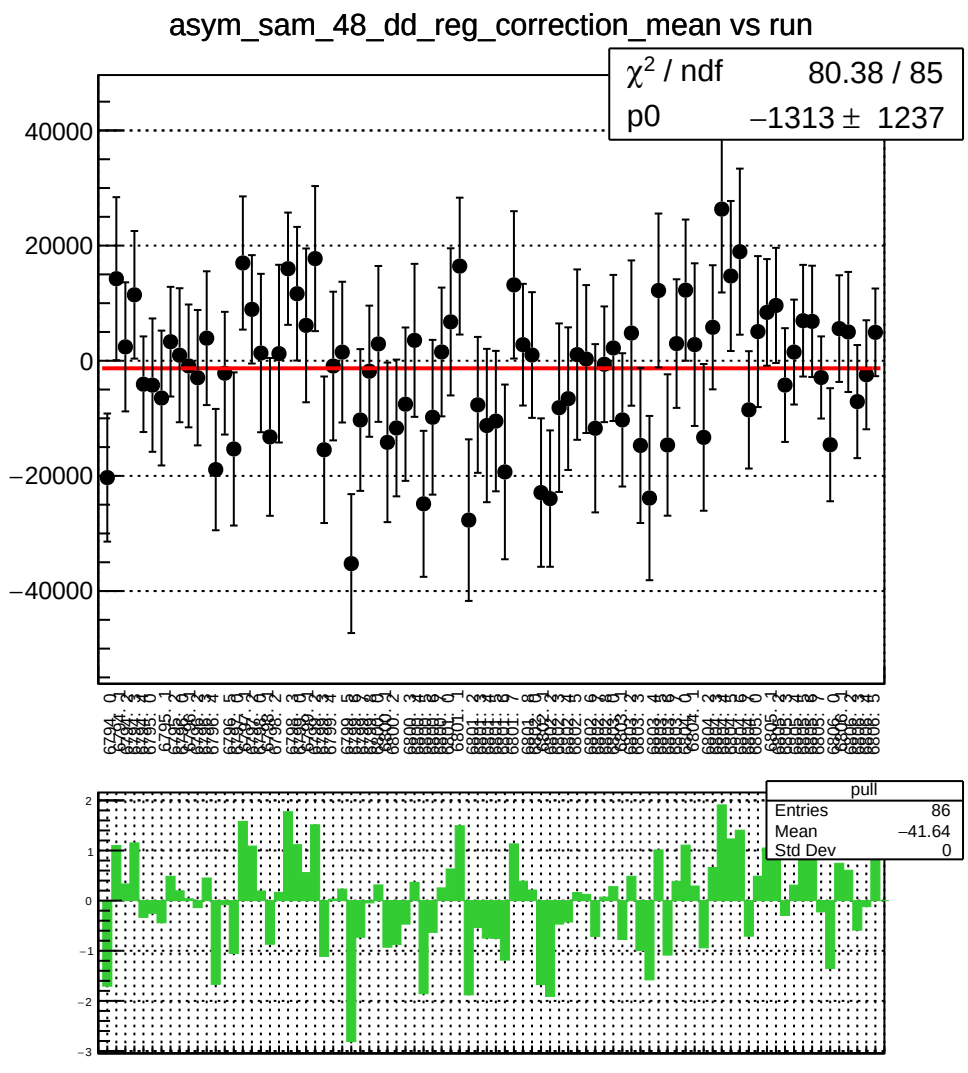

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.11 / 85
p0 −8.993e−15 ± 9.525e−15
pull
Entries 86
Mean 97.11
Std Dev 0
pull1D
Entries 86
Mean 0.03191
Std Dev 1.062

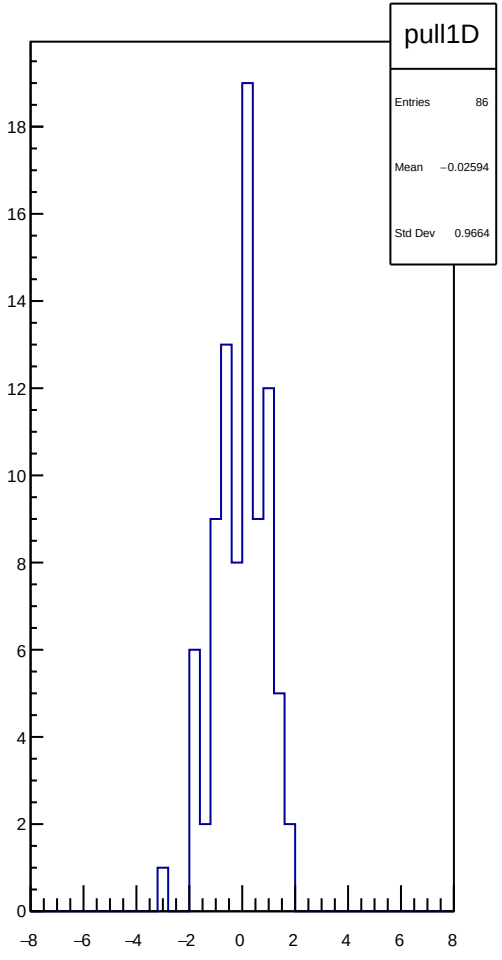

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.836e+05 / 85
p0 7.374e−12 ± 6.735e−15
60
50
40
30
20
10

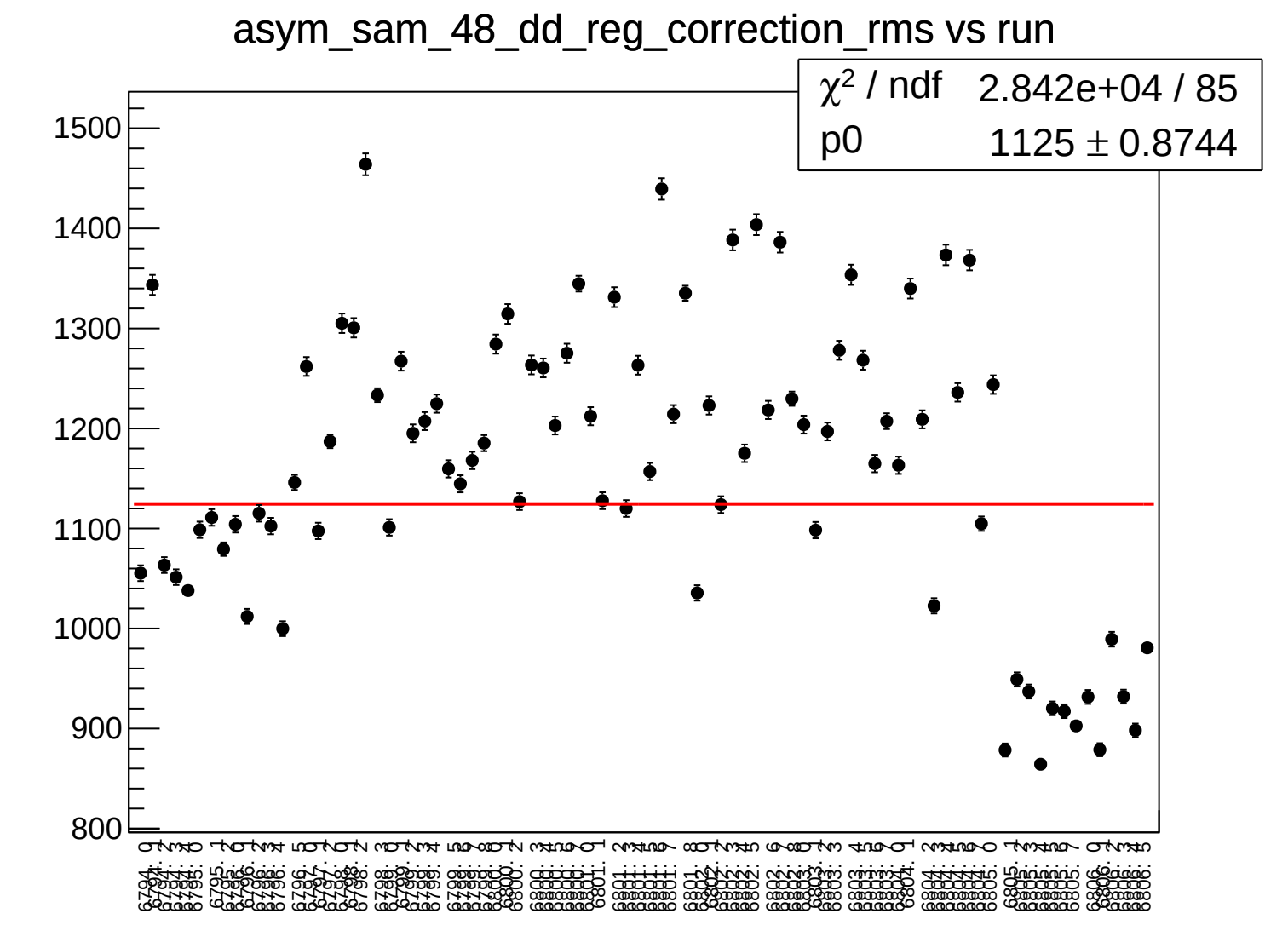

reg_asym_sam_48_dd_mean vs run
χ² / ndf 79.97 / 85
p0 −198.9 ± 161.8
pull
Entries 86
Mean −1601
Std Dev 0

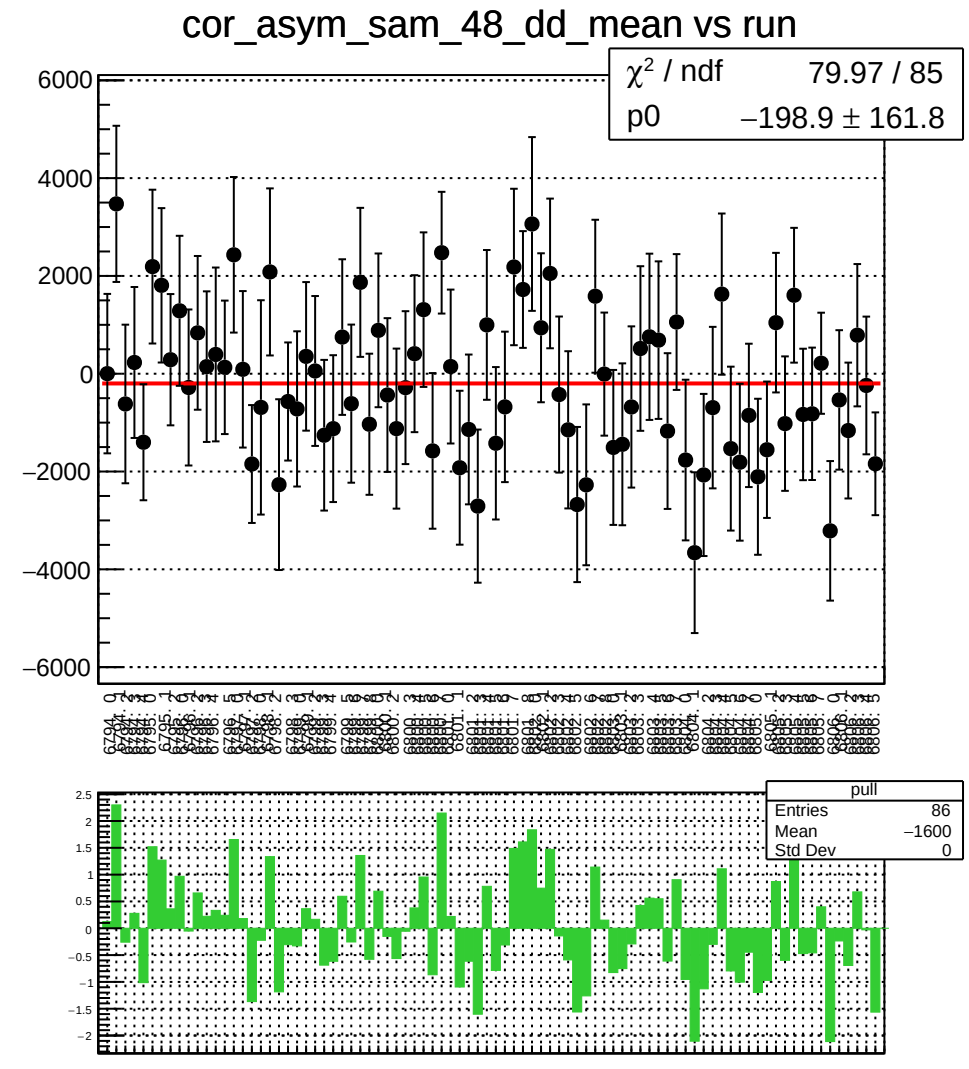

pull1D
Entries 86
Mean 0.004074
Std Dev 0.9643

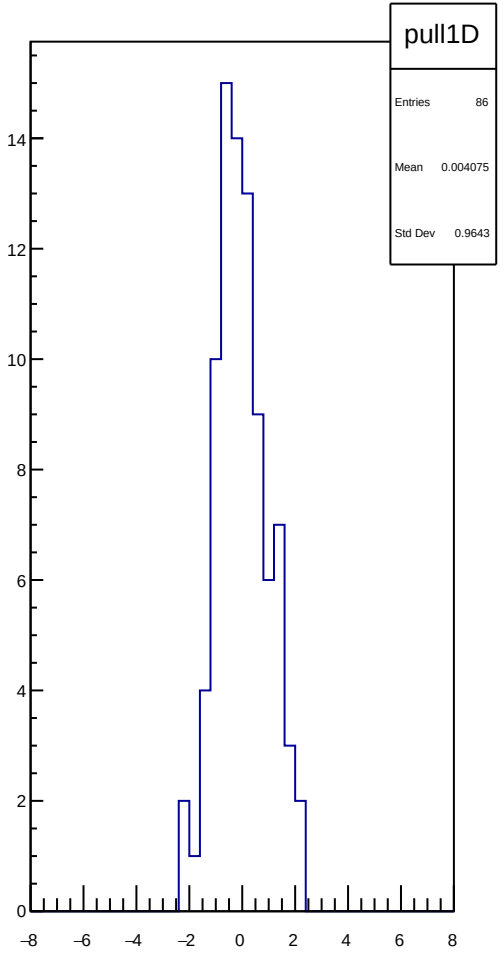

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 7412 / 85
p0 148 ± 0.1144
210
200
190
180
170
160
150
140
130
120

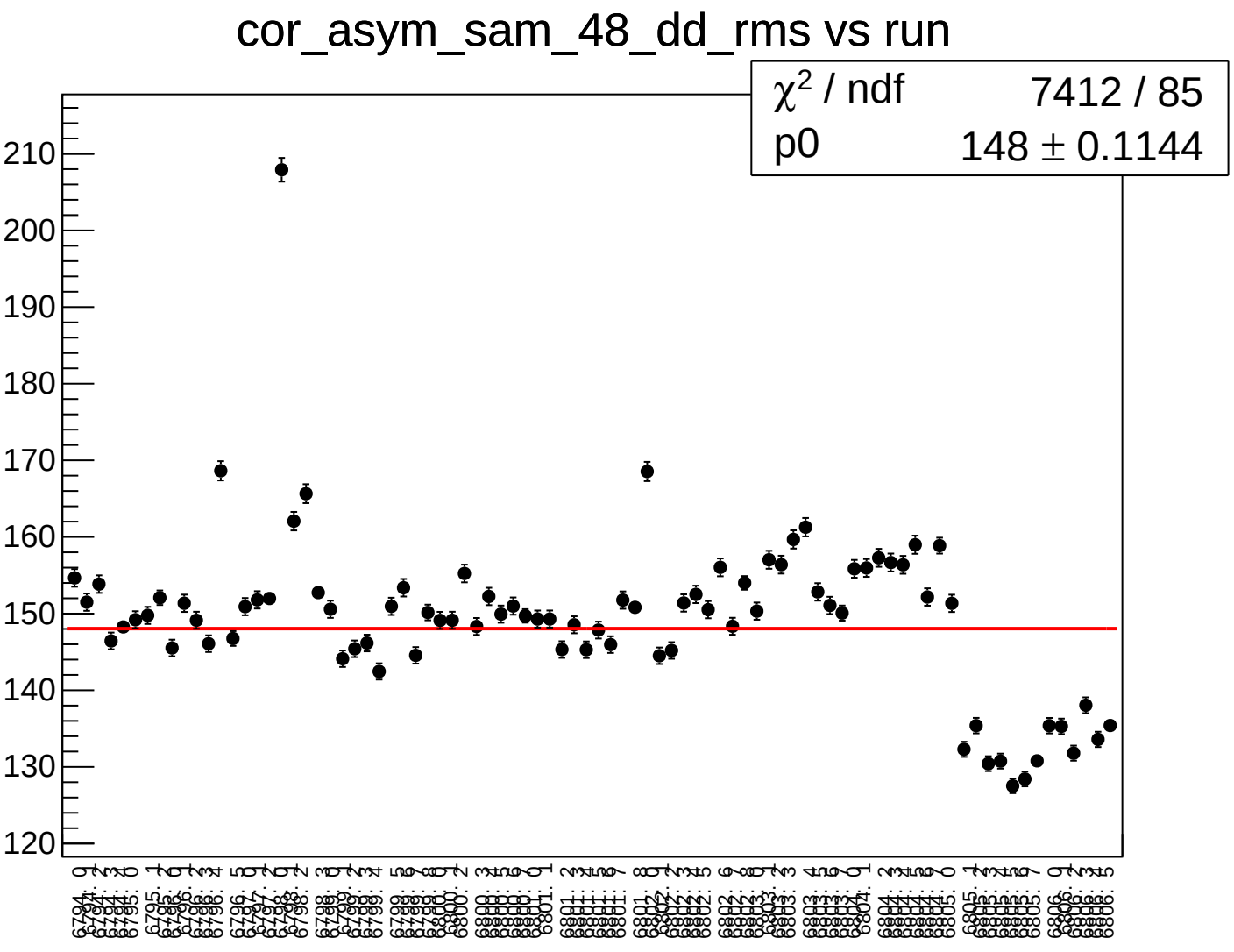

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 80.38 / 85
p0 −1313 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −41.64
Std Dev 0
2
1
0
−1
−2
−3

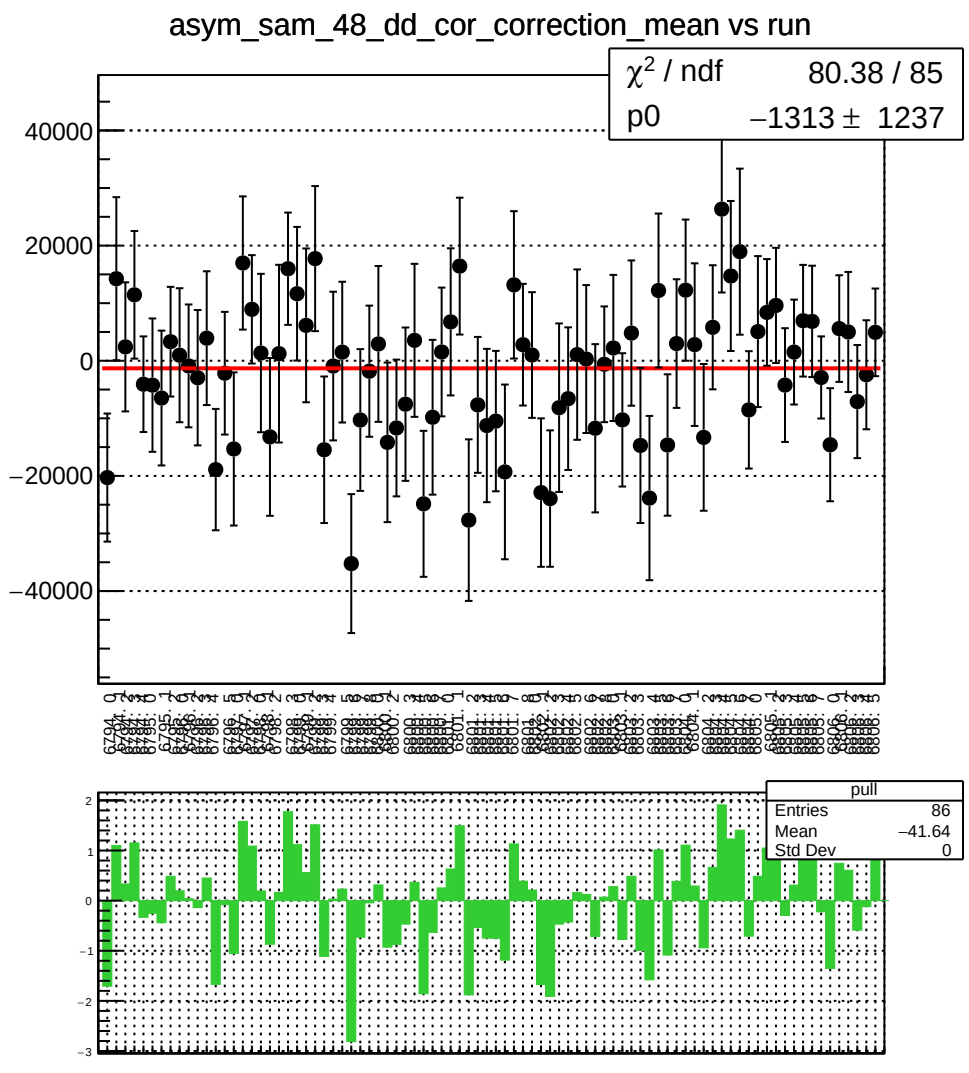

pull1D
Entries 86
Mean −0.02594
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

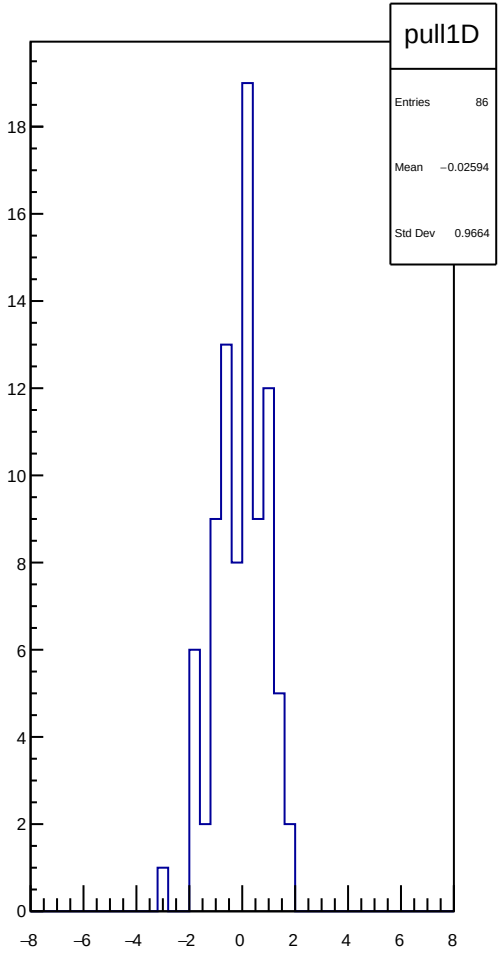

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 2.842e+04 / 85
p0 1125 ± 0.8744
1500
1400
1300
1200
1100
1000
900
800

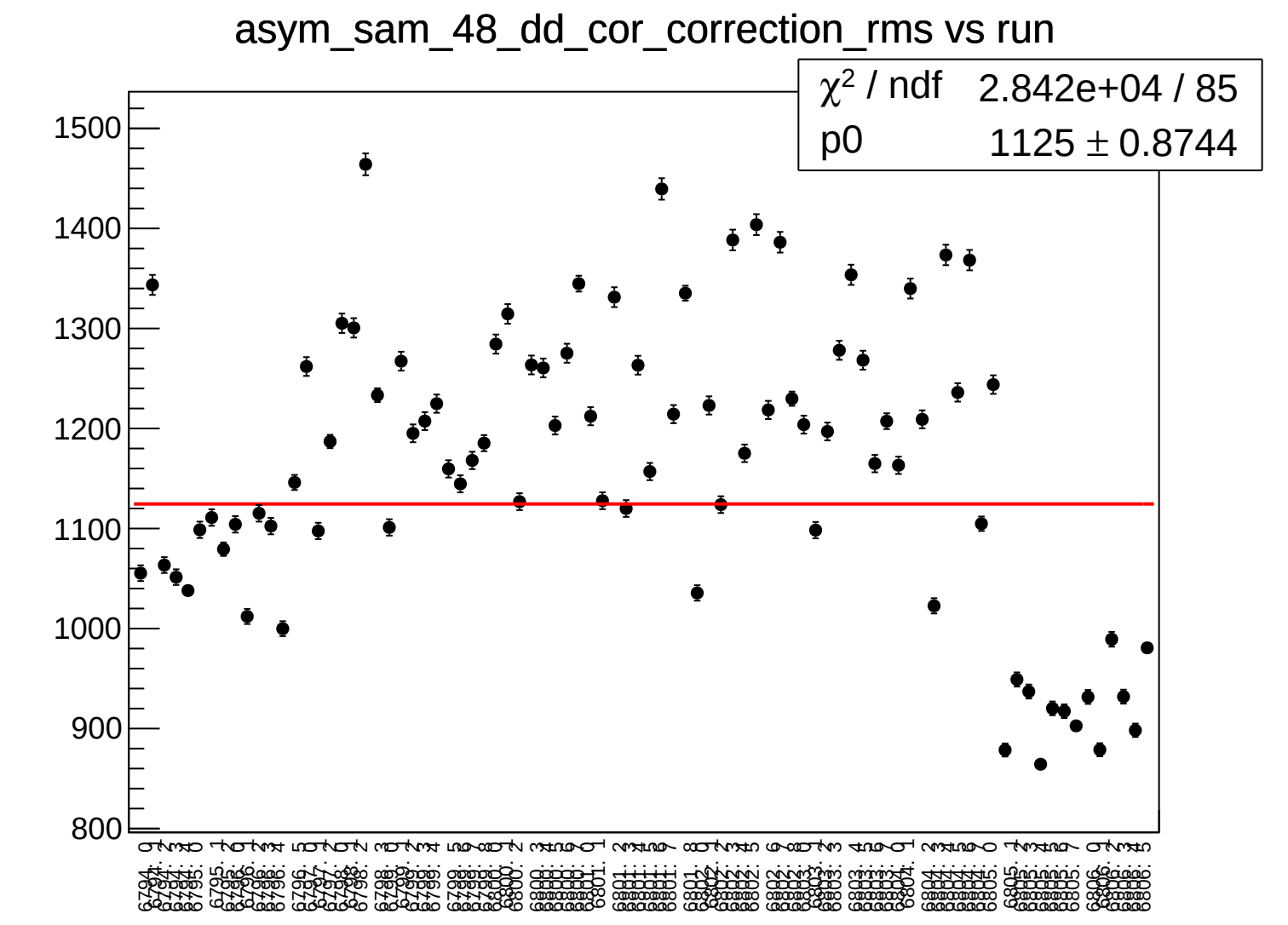

cor_asym_sam_48_dd_mean vs run
χ² / ndf 79.97 / 85
p0 −198.9 ± 161.8
pull
Entries 86
Mean −1600
Std Dev 0

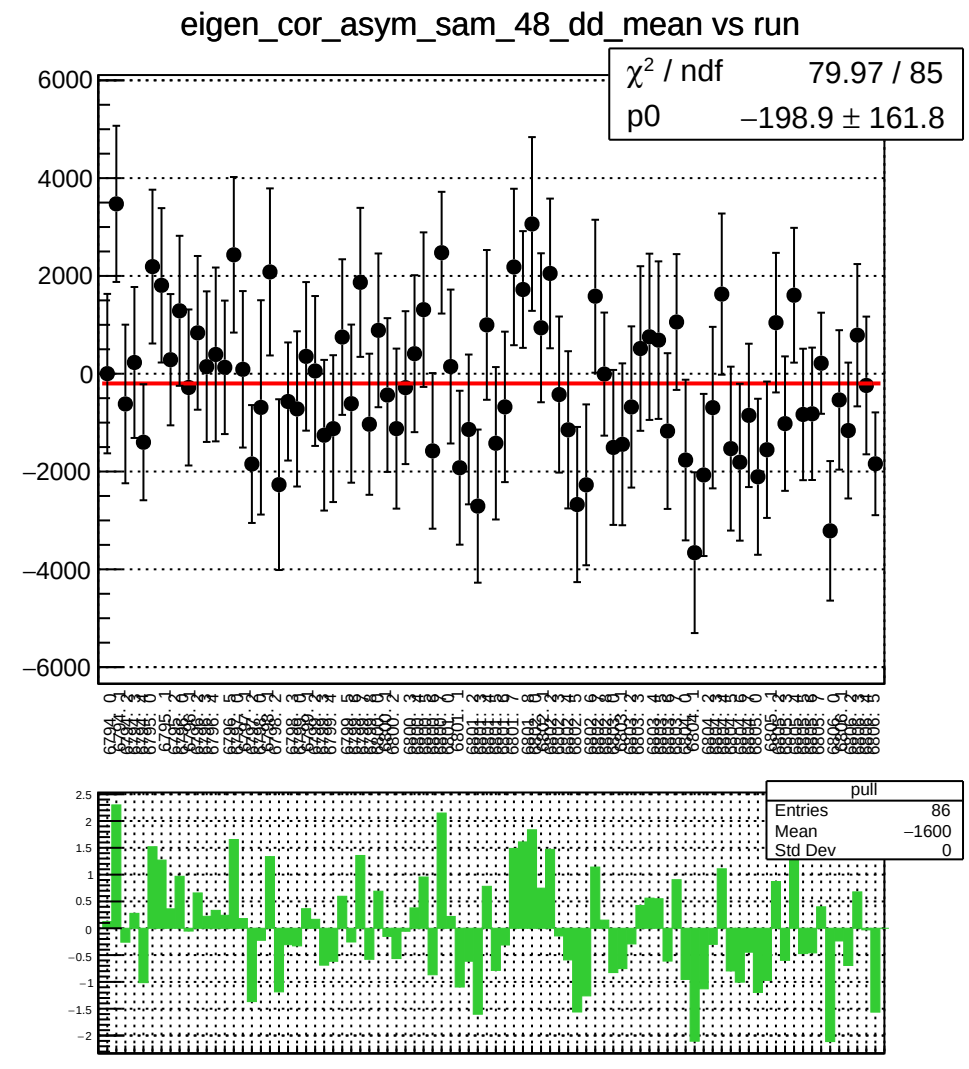

pull1D
Entries 86
Mean 0.004075
Std Dev 0.9643

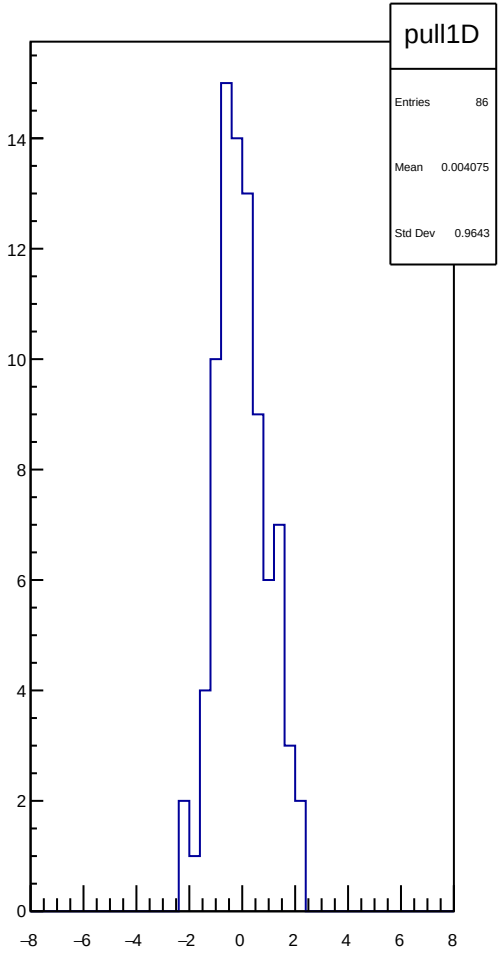

cor_asym_sam_48_dd_rms vs run
χ^2 / ndf 7412 / 85
p0 148 ± 0.1144
210
200
190
180
170
160
150
140
130
120

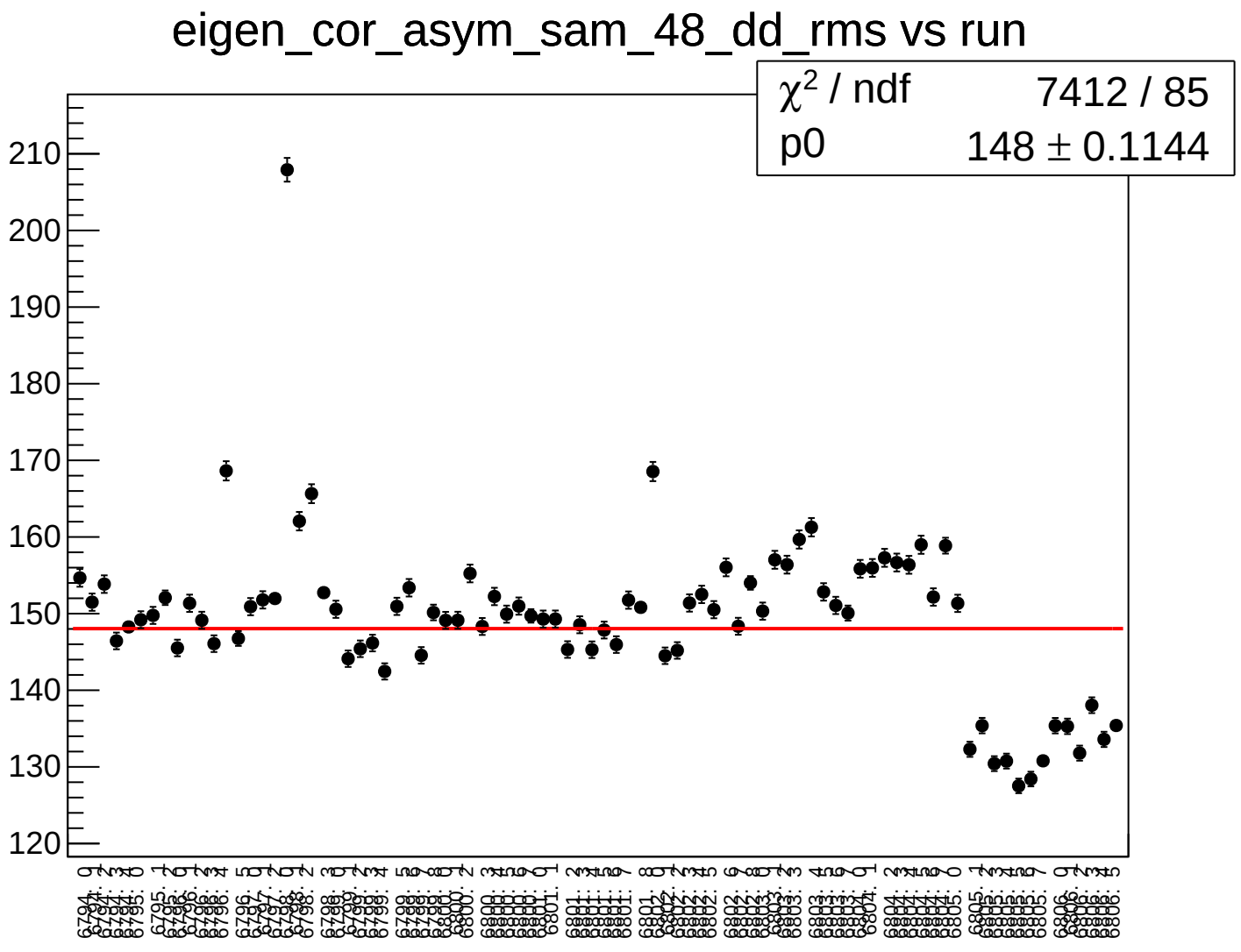

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 80.38 / 85
p0 −1313 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −41.64
Std Dev 0
2
1
0
−1
−2
−3

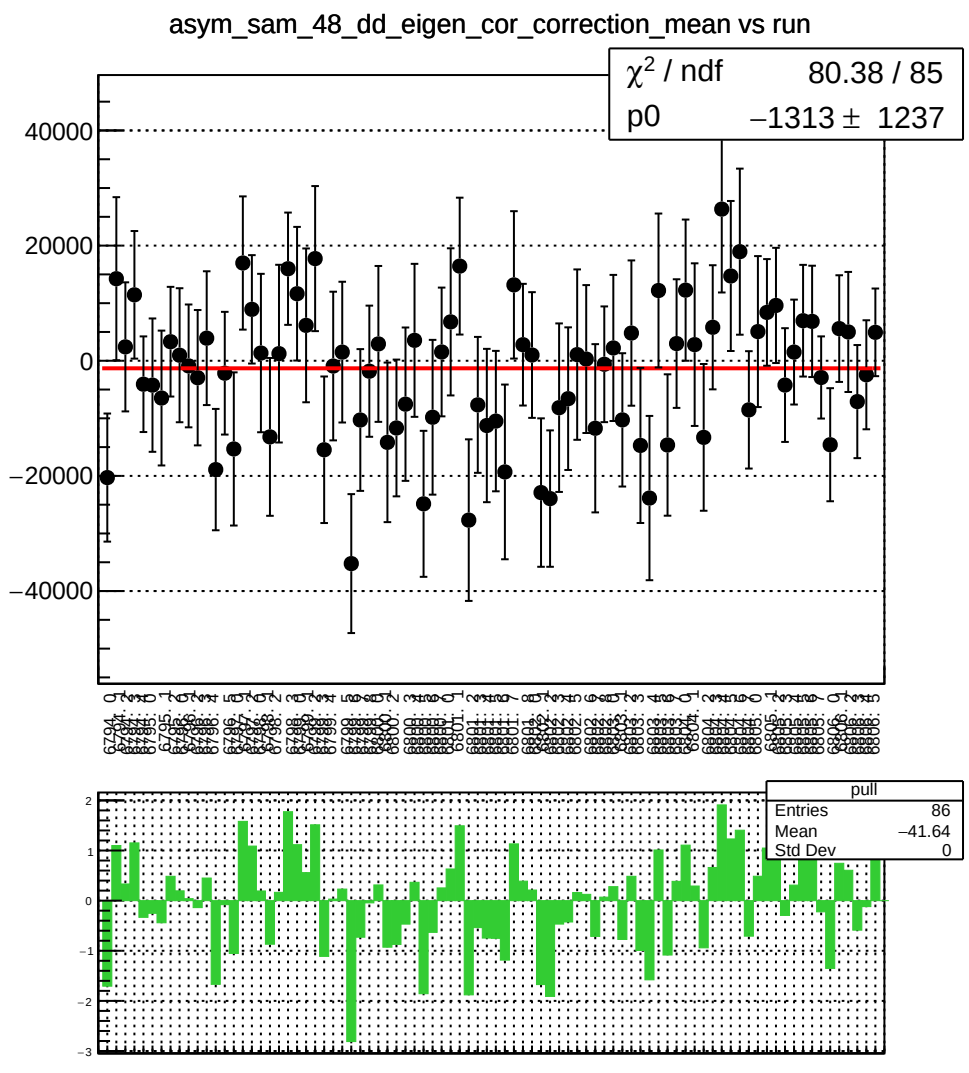

pull1D
Entries 86
Mean −0.02594
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

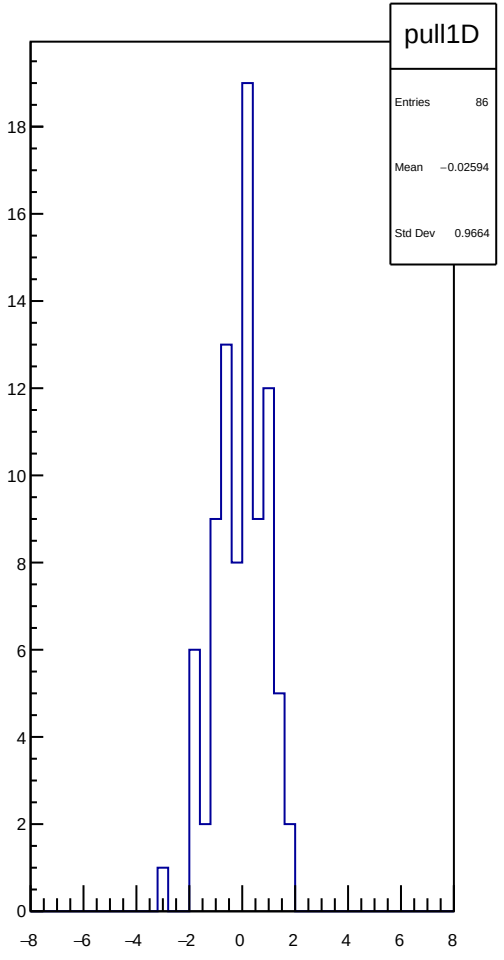

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 2.842e+04 / 85
p0 1125 ± 0.8744
1500
1400
1300
1200
1100
1000
900
800

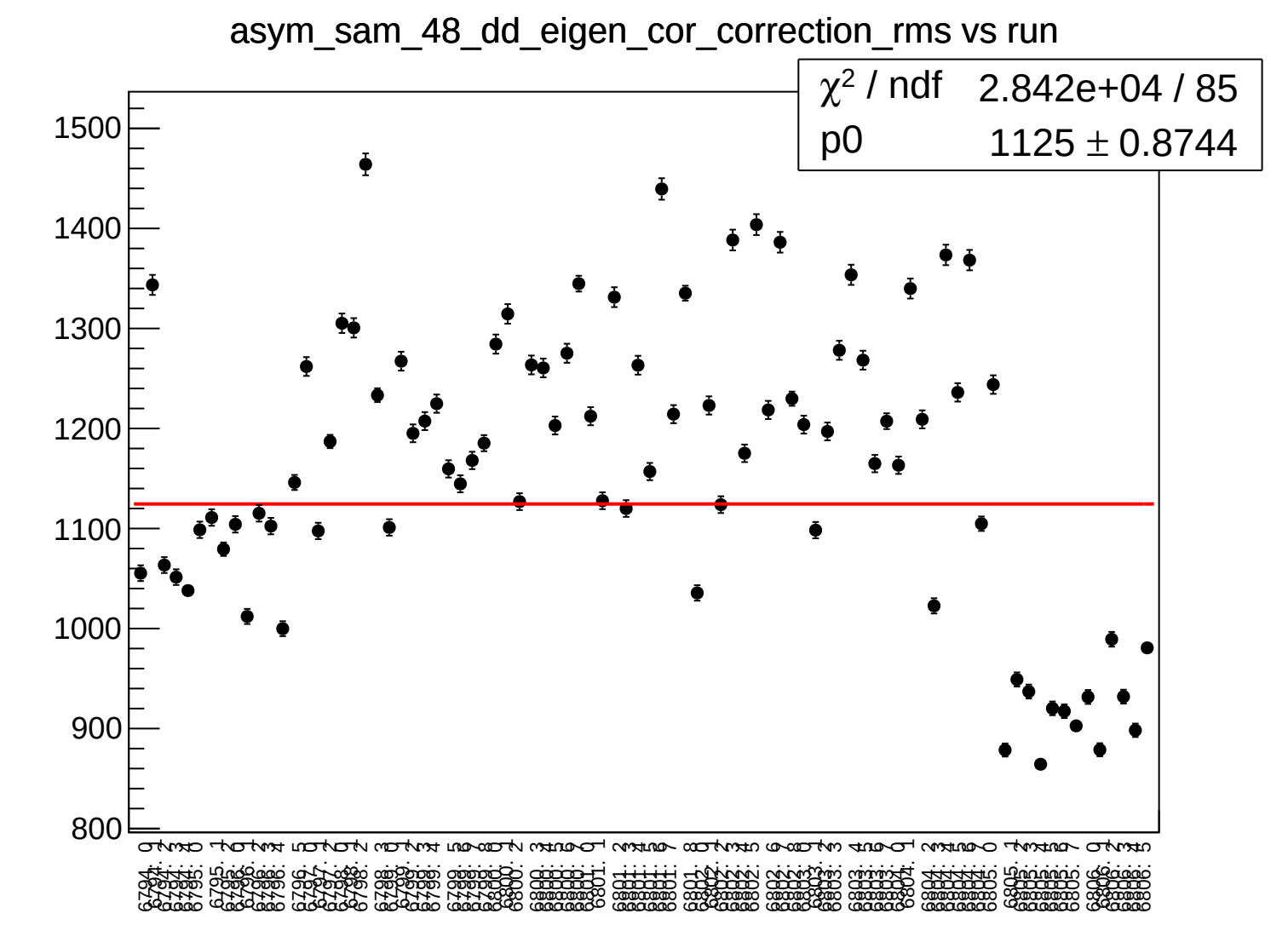

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 79.97 / 85
p0 −198.9 ± 161.8
pull
Entries 86
Mean −1600
Std Dev 0

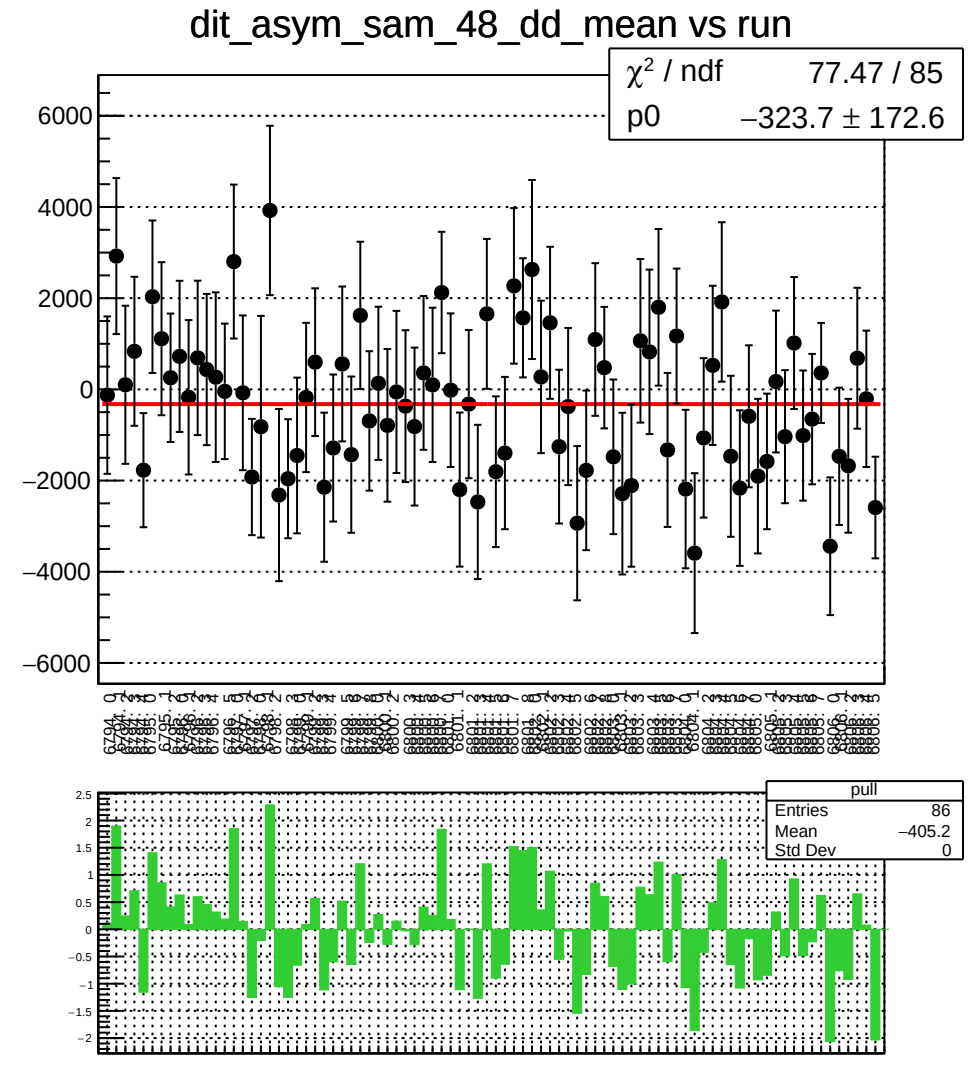

pull1D
Entries 86
Mean 0.004075
Std Dev 0.9643

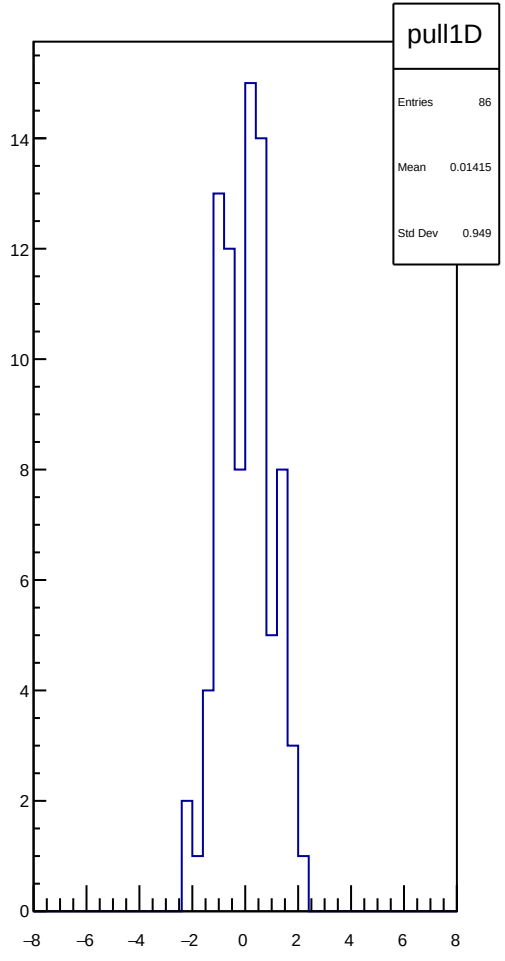

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 7412 / 85
p0 148 ± 0.1144
210
200
190
180
170
160
150
140
130
120

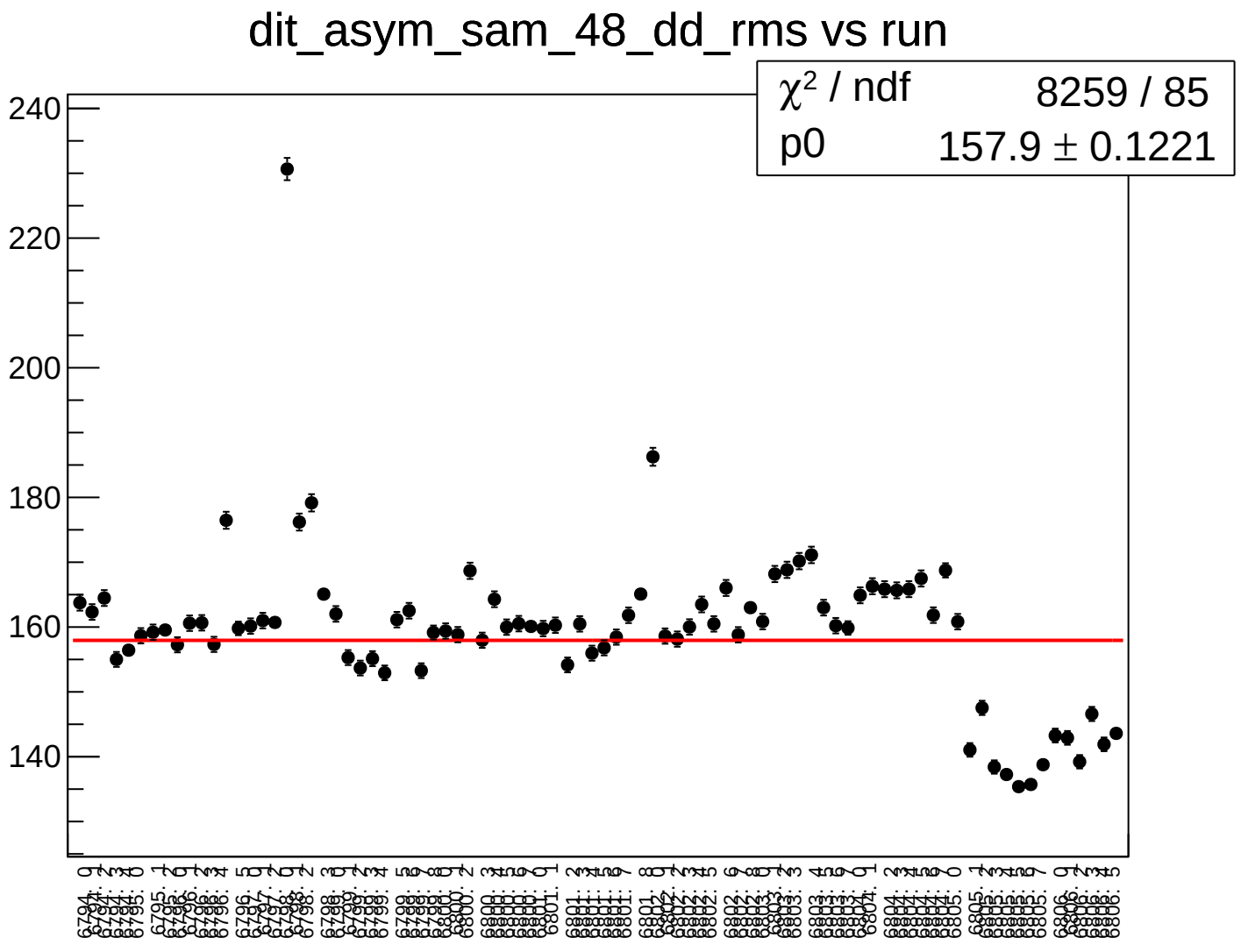

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 80.38 / 85
p0 −1313 ± 1237
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −41.64
Std Dev 0
2
1
0
−1
−2
−3

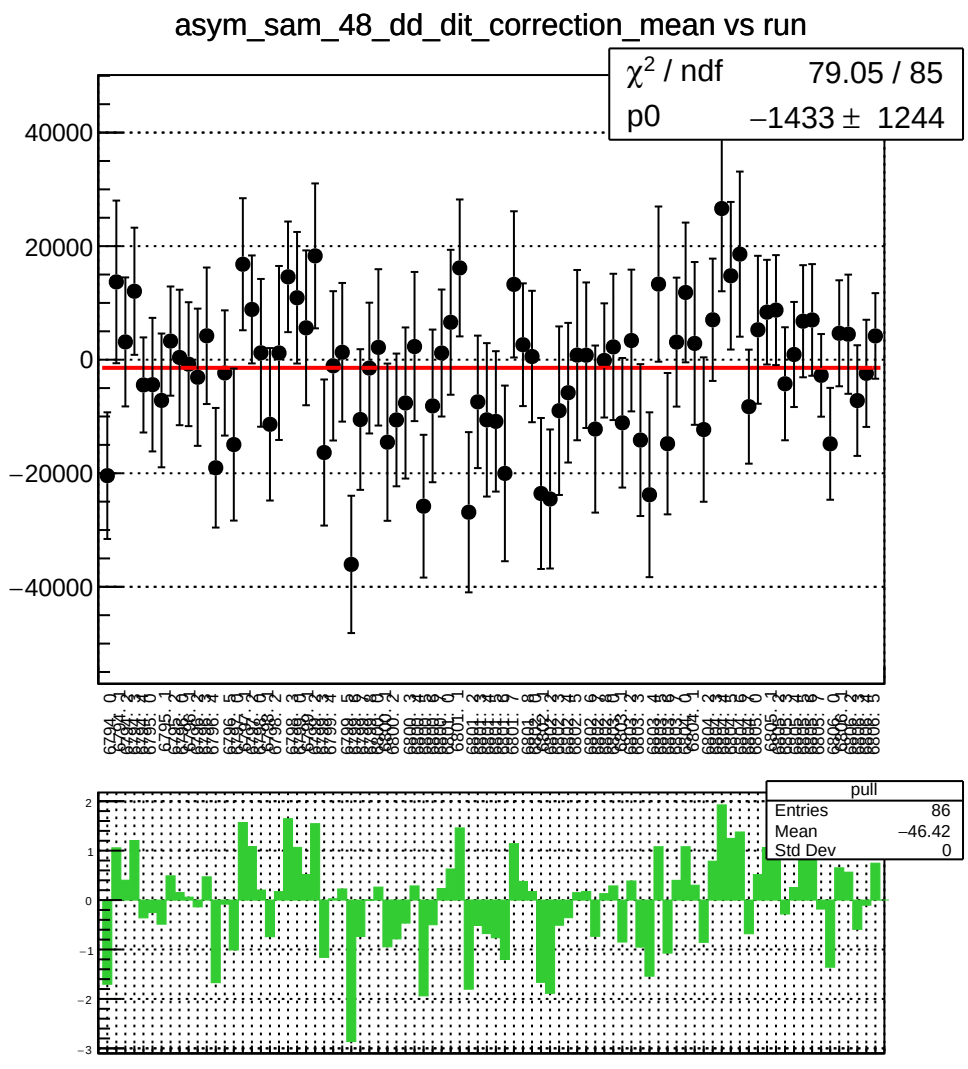

pull1D
Entries 86
Mean −0.02594
Std Dev 0.9664
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

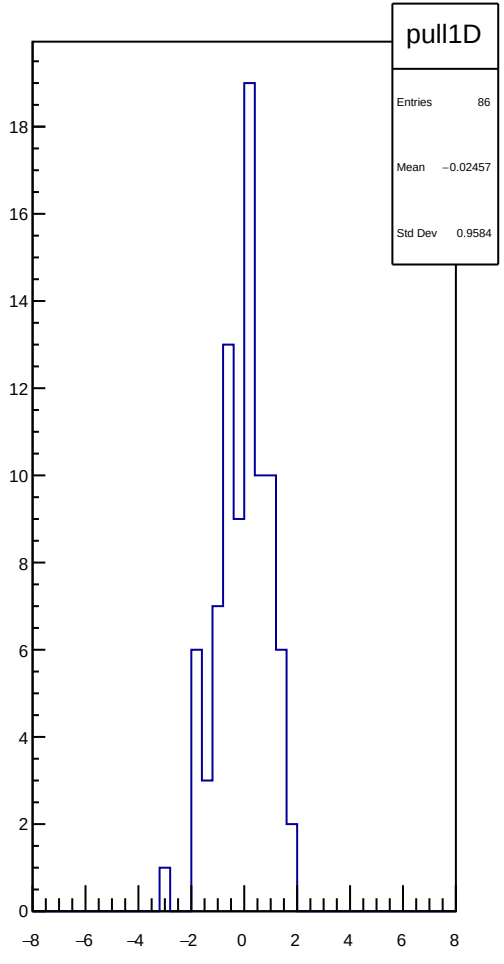

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.842e+04 / 85
p0 1125 ± 0.8744
1500
1400
1300
1200
1100
1000
900
800

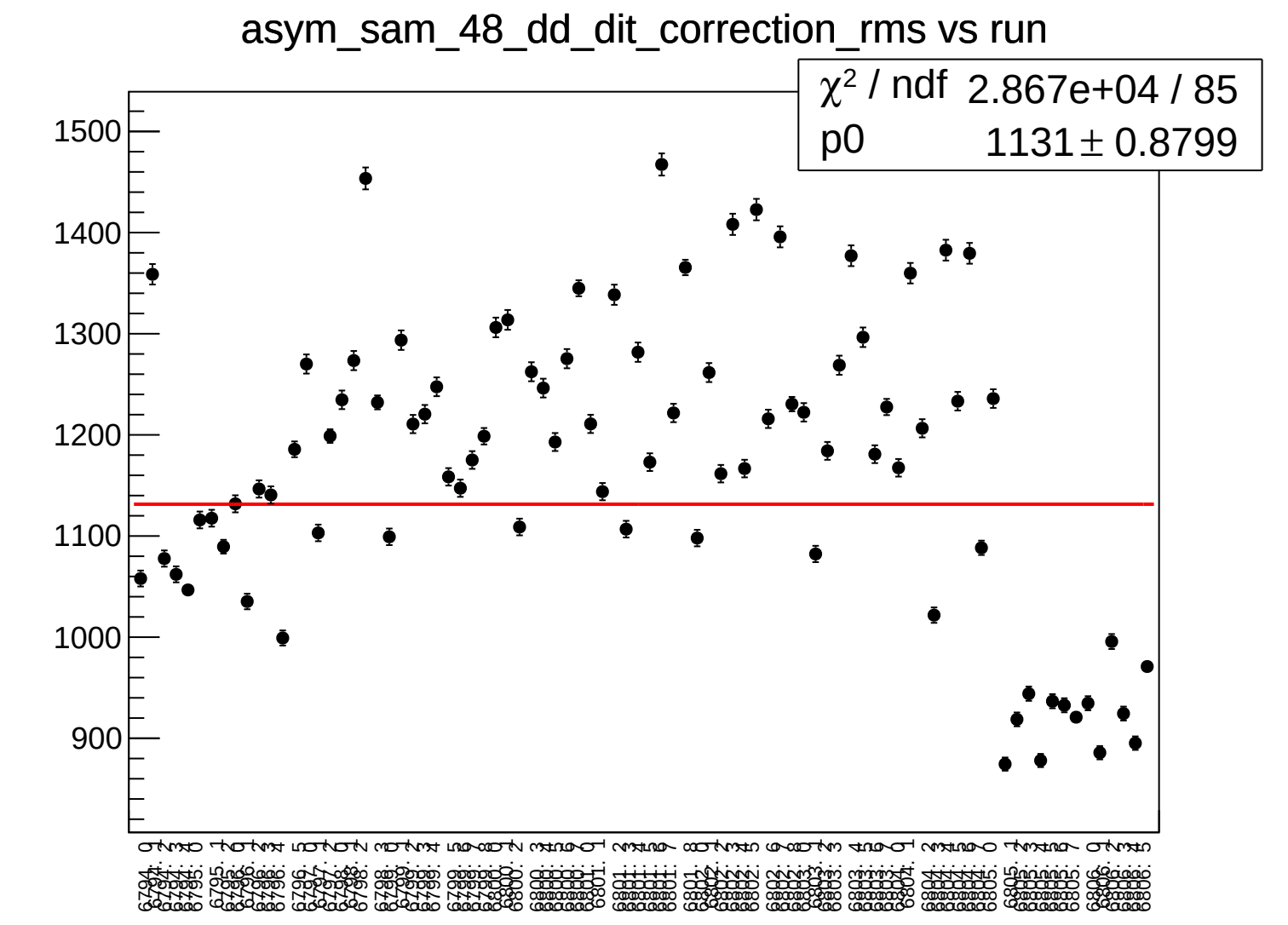

dit_asym_sam_48_dd_mean vs run
χ² / ndf 77.47 / 85
p0 −323.7 ± 172.6
pull
Entries 86
Mean −405.2
Std Dev 0

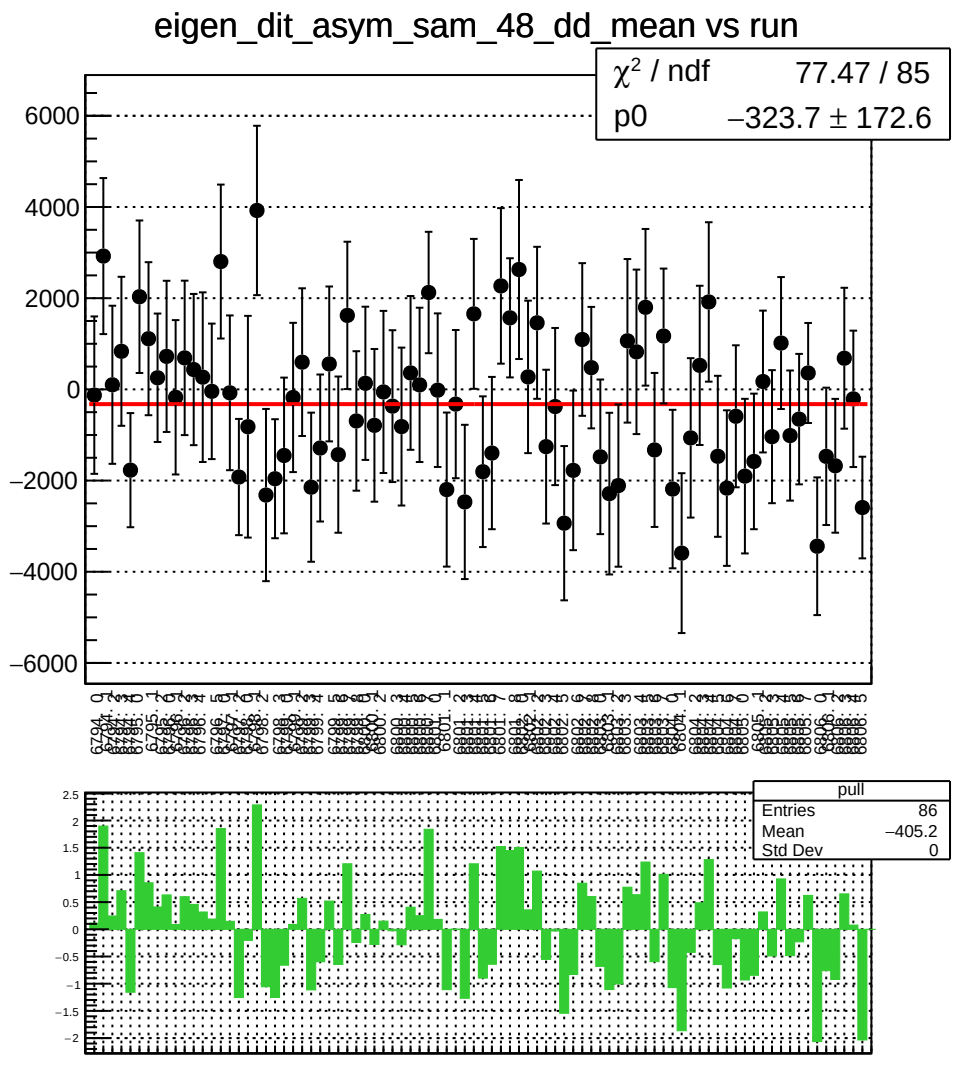

pull1D
Entries 86
Mean 0.01415
Std Dev 0.949

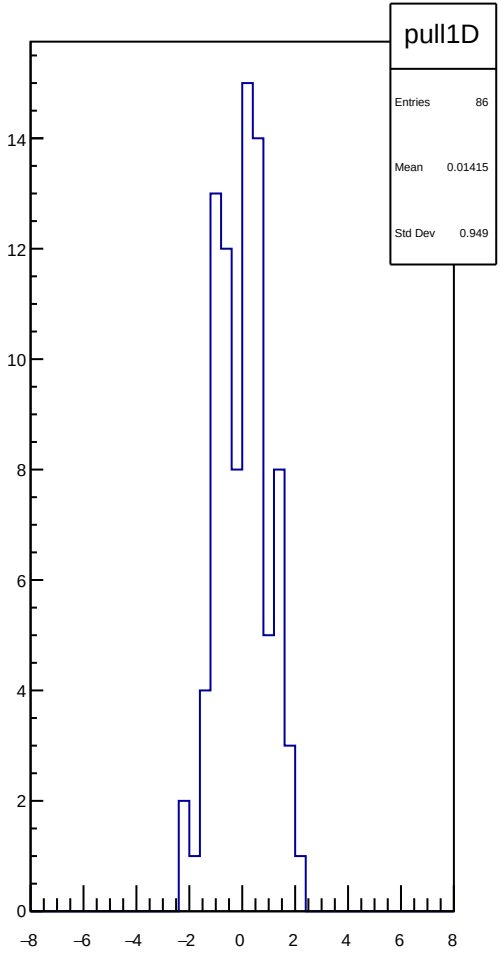

dit_asym_sam_48_dd_rms vs run
χ² / ndf 8259 / 85
p0 157.9 ± 0.1221
240
220
200
180
160
140

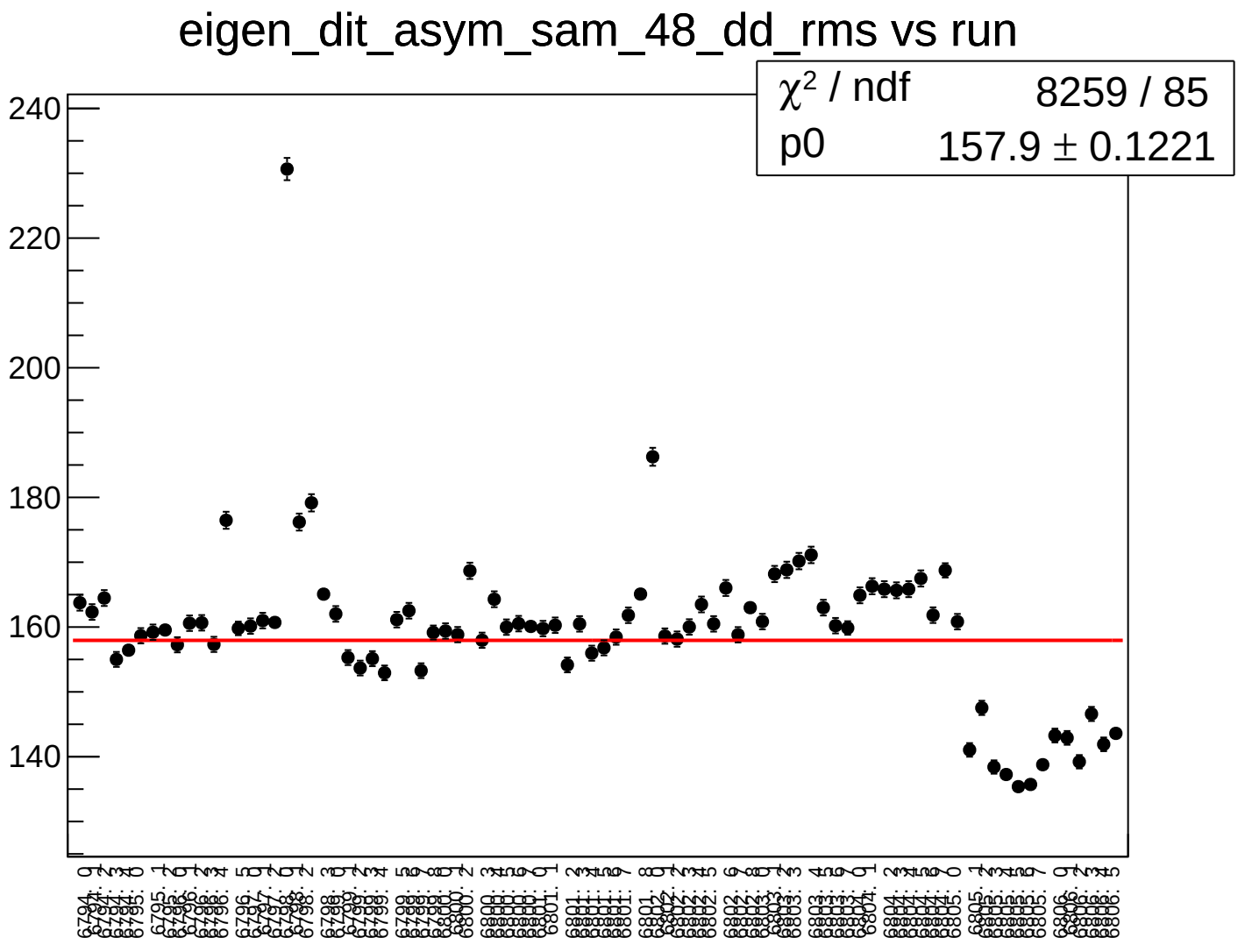

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 79.05 / 85
p0 −1433 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −46.42
Std Dev 0
2
1
0
−1
−2
−3

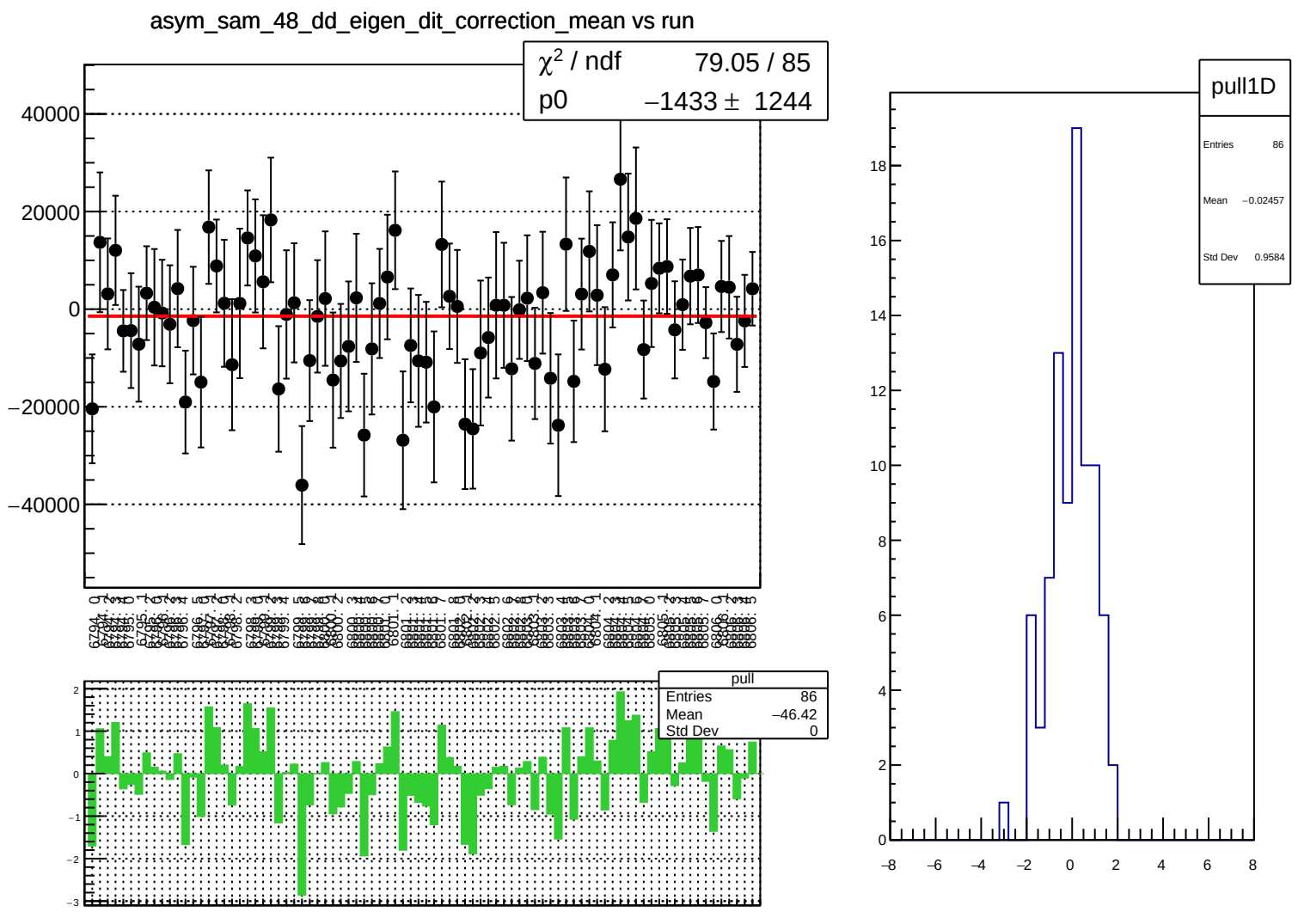

pull1D
Entries 86
Mean −0.02457
Std Dev 0.9584
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

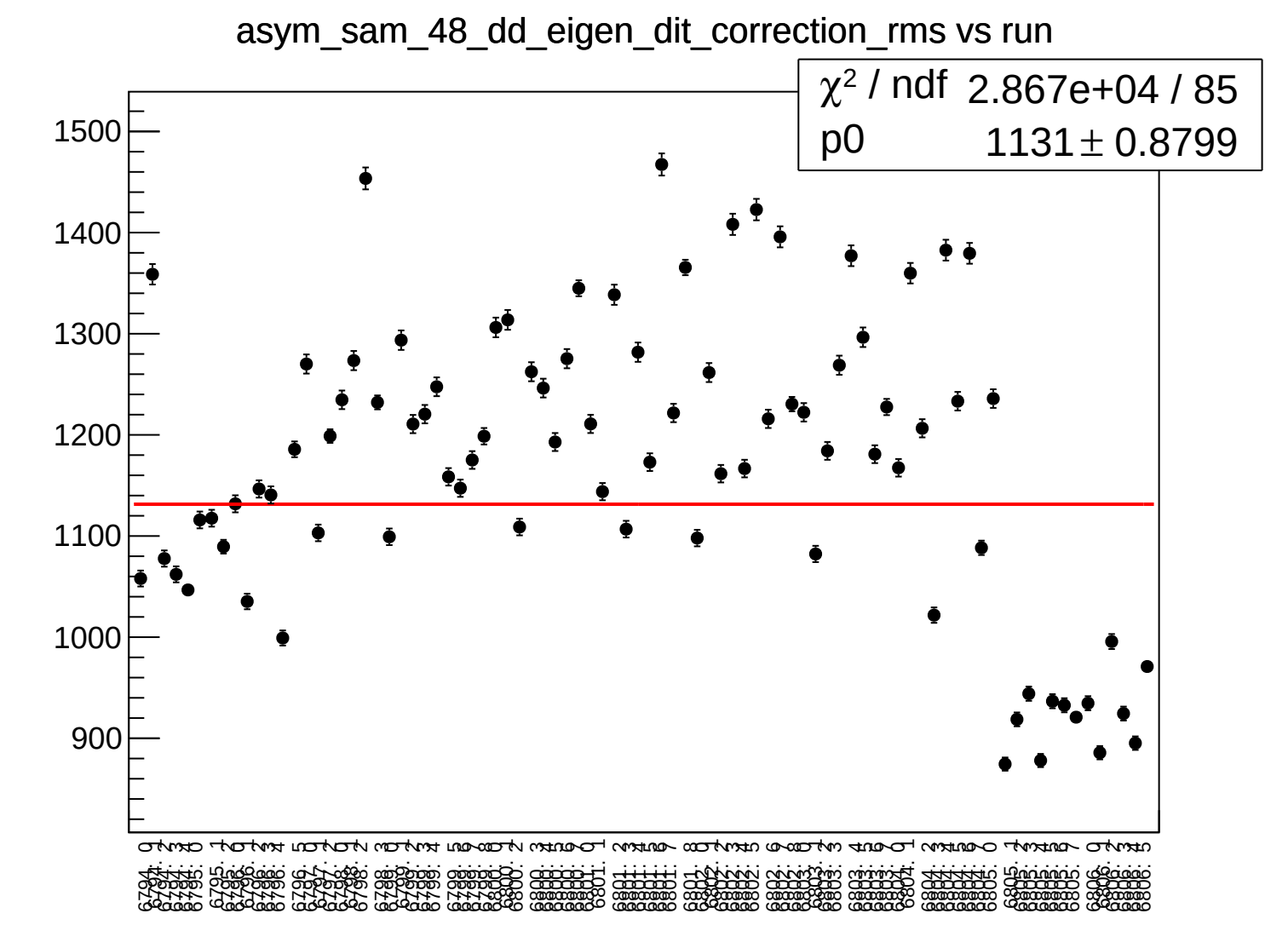

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 2.867e+04 / 85
p0 1131 ± 0.8799
1500
1400
1300
1200
1100
1000
900

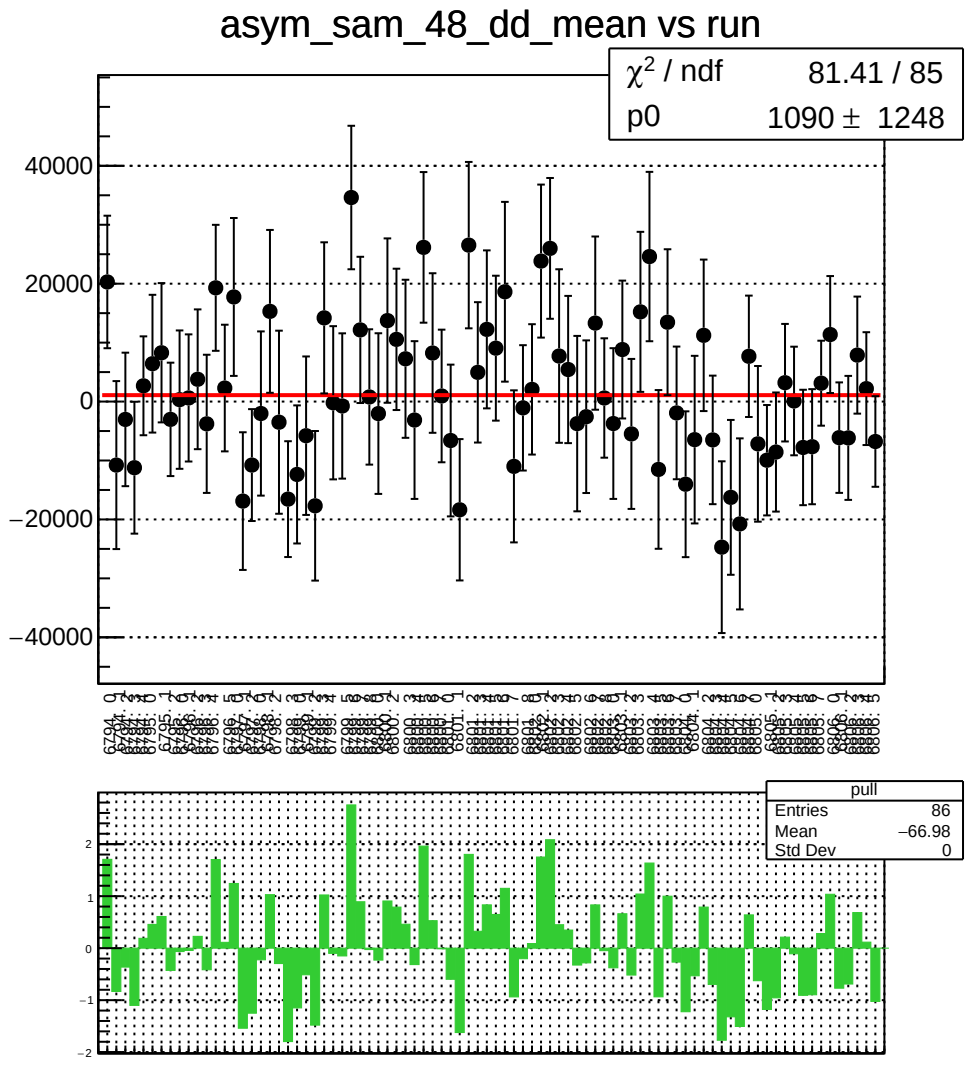

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 77.47 / 85
p0 −323.7 ± 172.6
pull
Entries 86
Mean −405.2
Std Dev 0

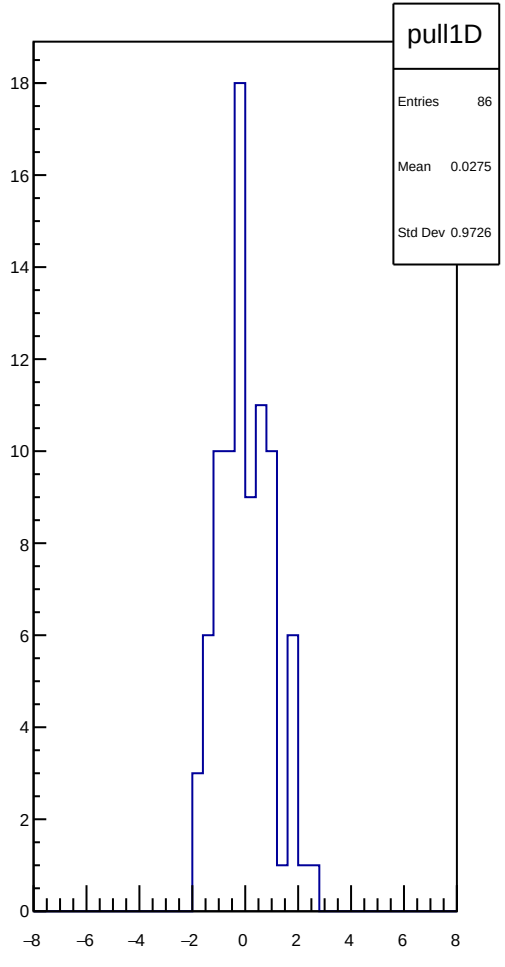

pull1D
Entries 86
Mean 0.01415
Std Dev 0.949

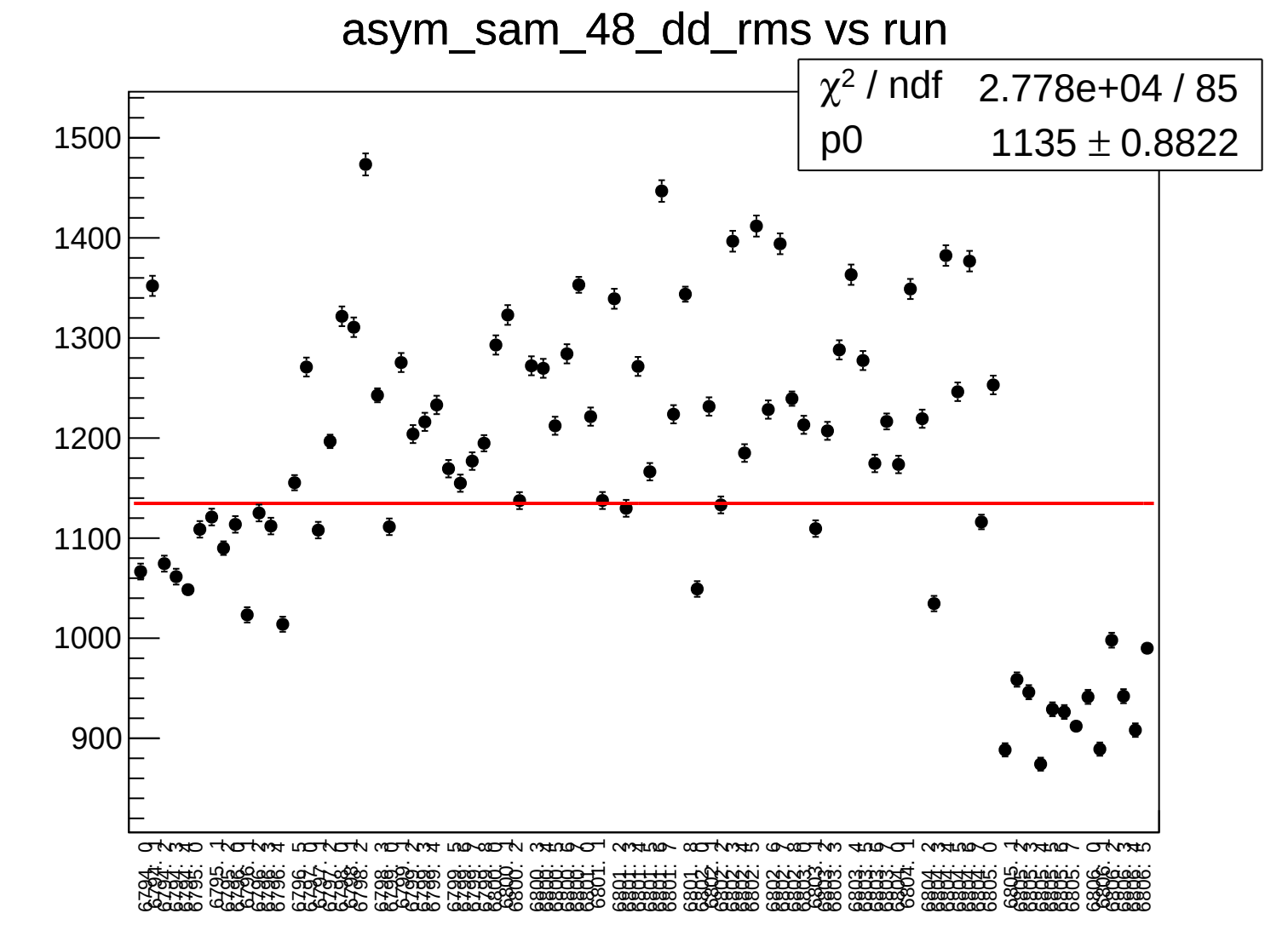

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 8259 / 85
p0 157.9 ± 0.1221
240
220
200
180
160
140

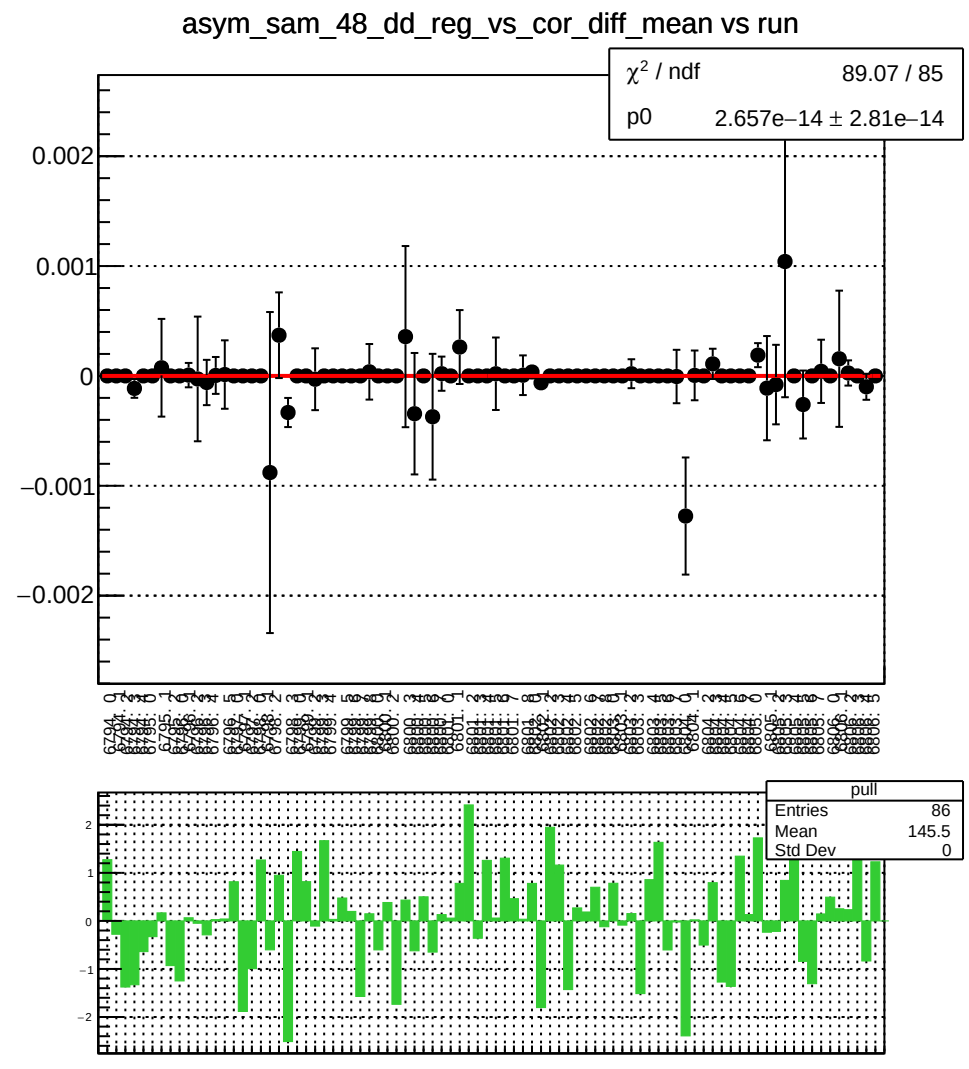

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.05 / 85
p0 −1433 ± 1244
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −46.42
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.02457
Std Dev 0.9584
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

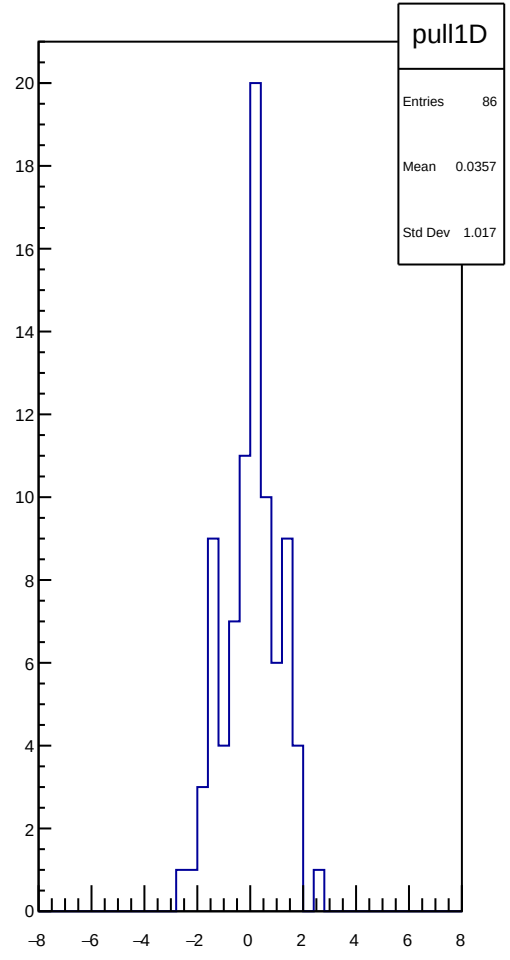

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.867e+04 / 85
p0 1131 ± 0.8799
1500
1400
1300
1200
1100
1000
900

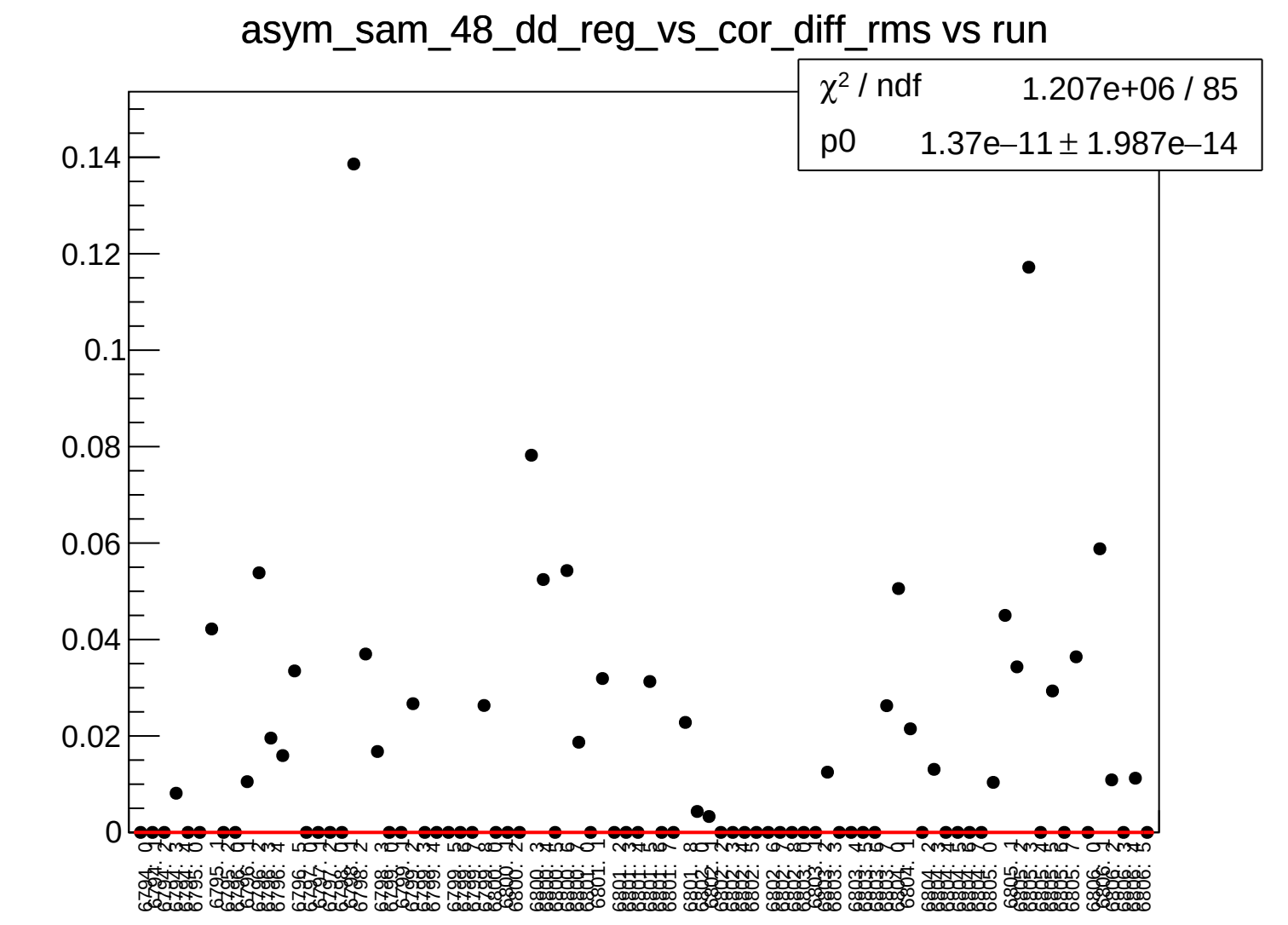

asym_sam_48_dd_mean vs run
χ² / ndf 81.41 / 85
p0 1090 ± 1248
40000
20000
0
−20000
−40000
pull
Entries 86
Mean −66.98
Std Dev 0
2
1
0
−1
−2

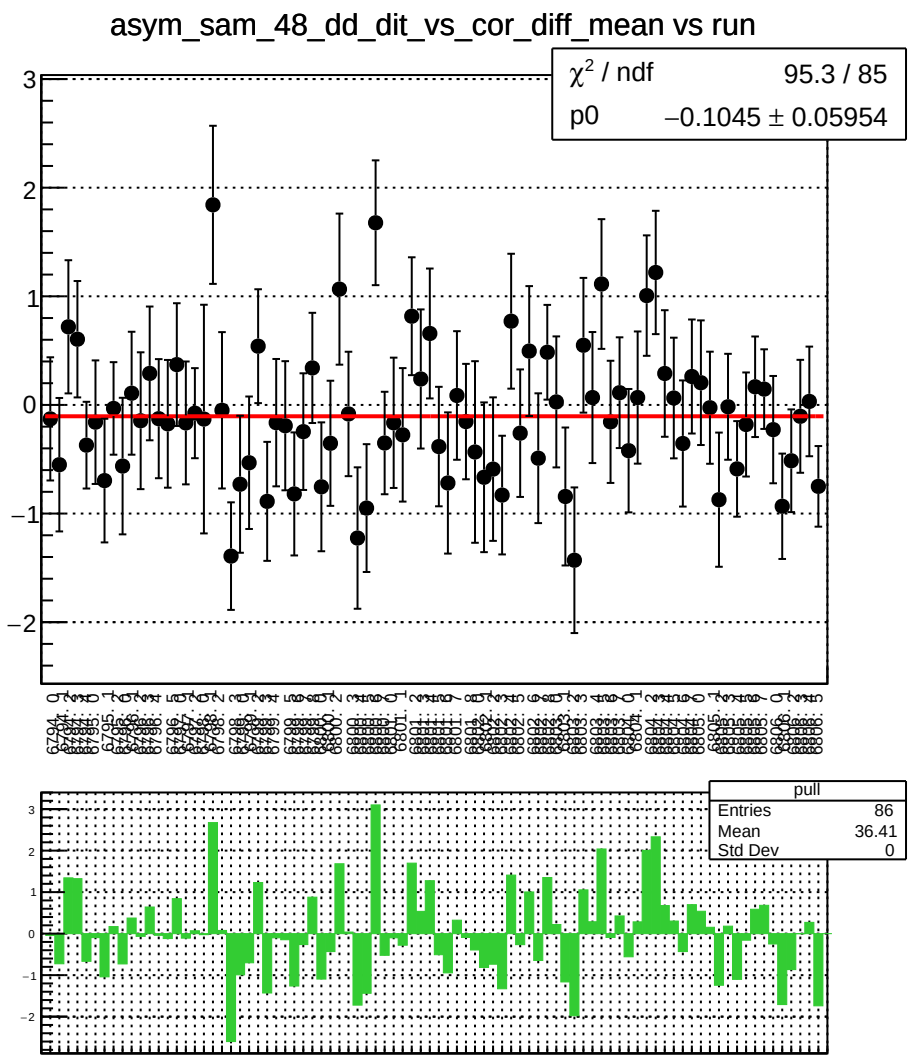

pull1D
Entries 86
Mean 0.0275
Std Dev 0.9726
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

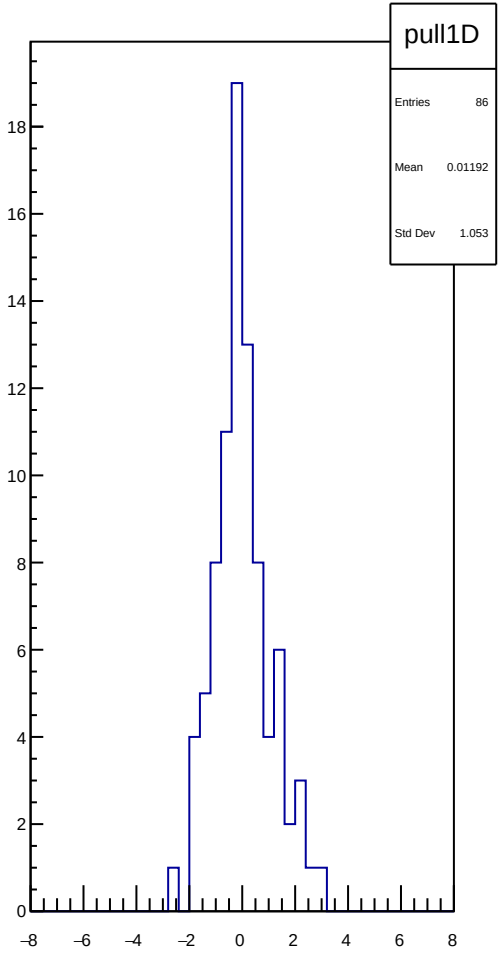

asym_sam_48_dd_rms vs run
χ² / ndf 2.778e+04 / 85
p0 1135 ± 0.8822
1500
1400
1300
1200
1100
1000
900

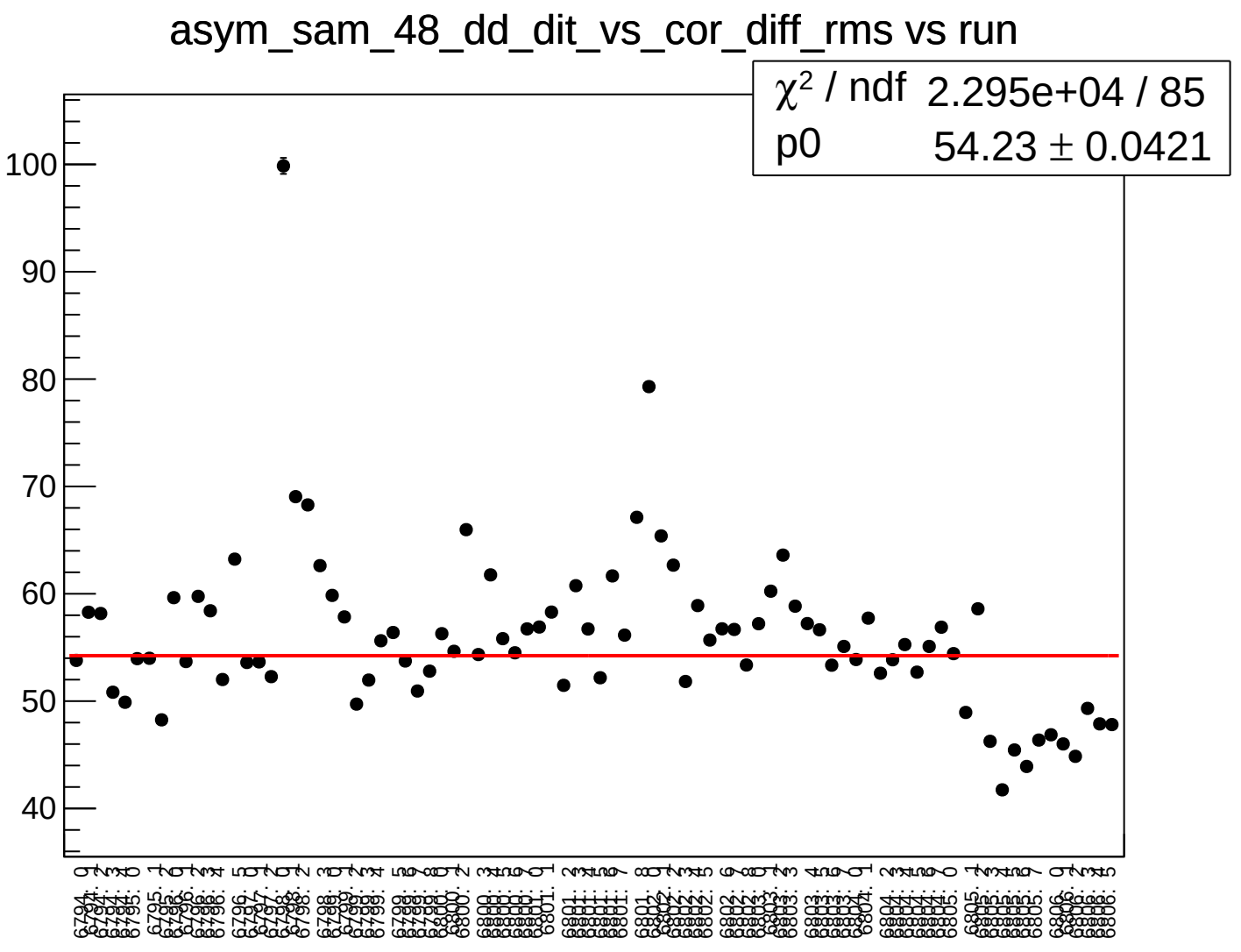

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.07 / 85
p0 2.657e−14 ± 2.81e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 86
Mean 145.5
Std Dev 0

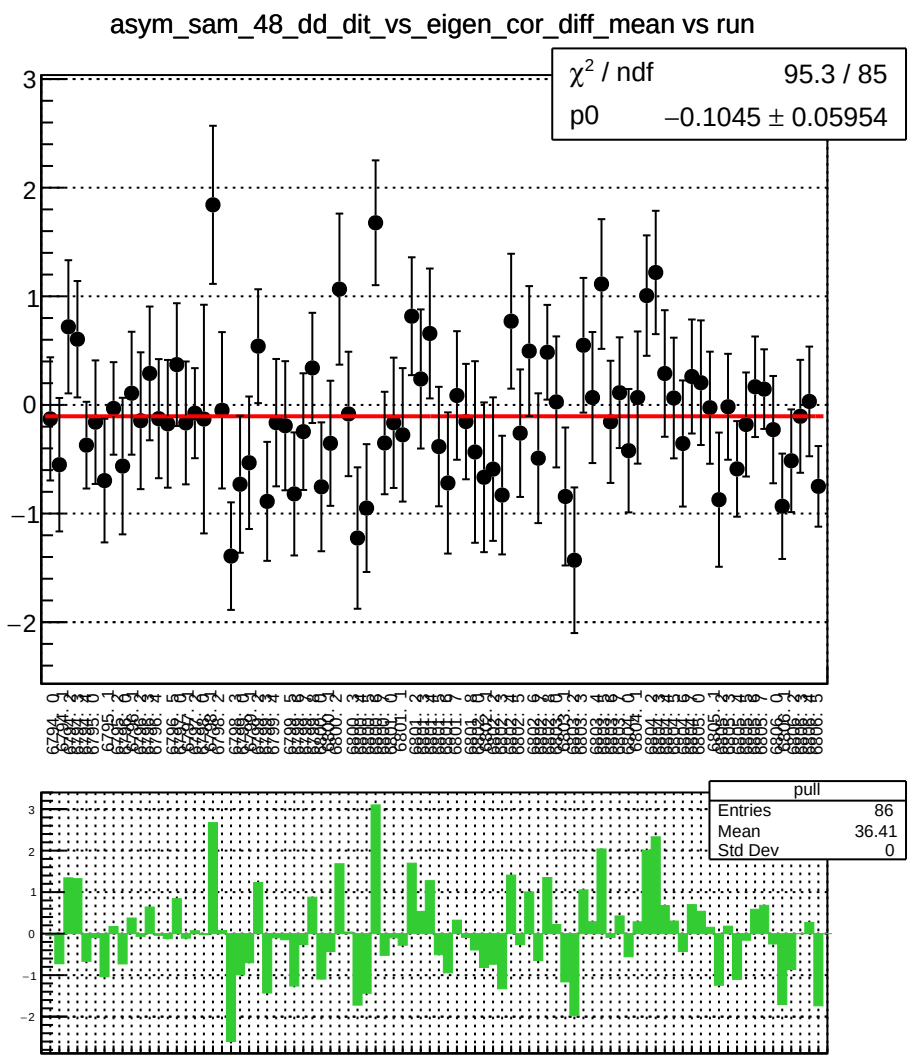

pull1D
Entries 86
Mean 0.0357
Std Dev 1.017

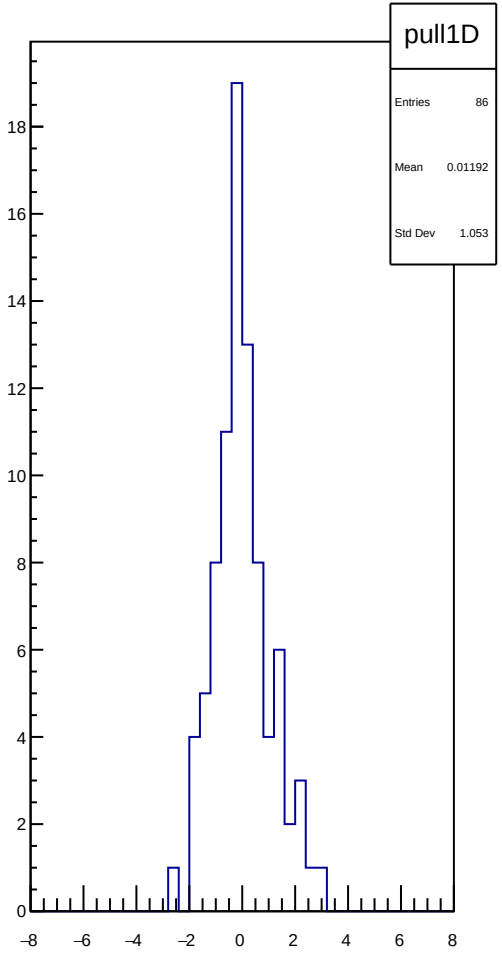

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.207e+06 / 85
p0 1.37e−11 ± 1.987e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

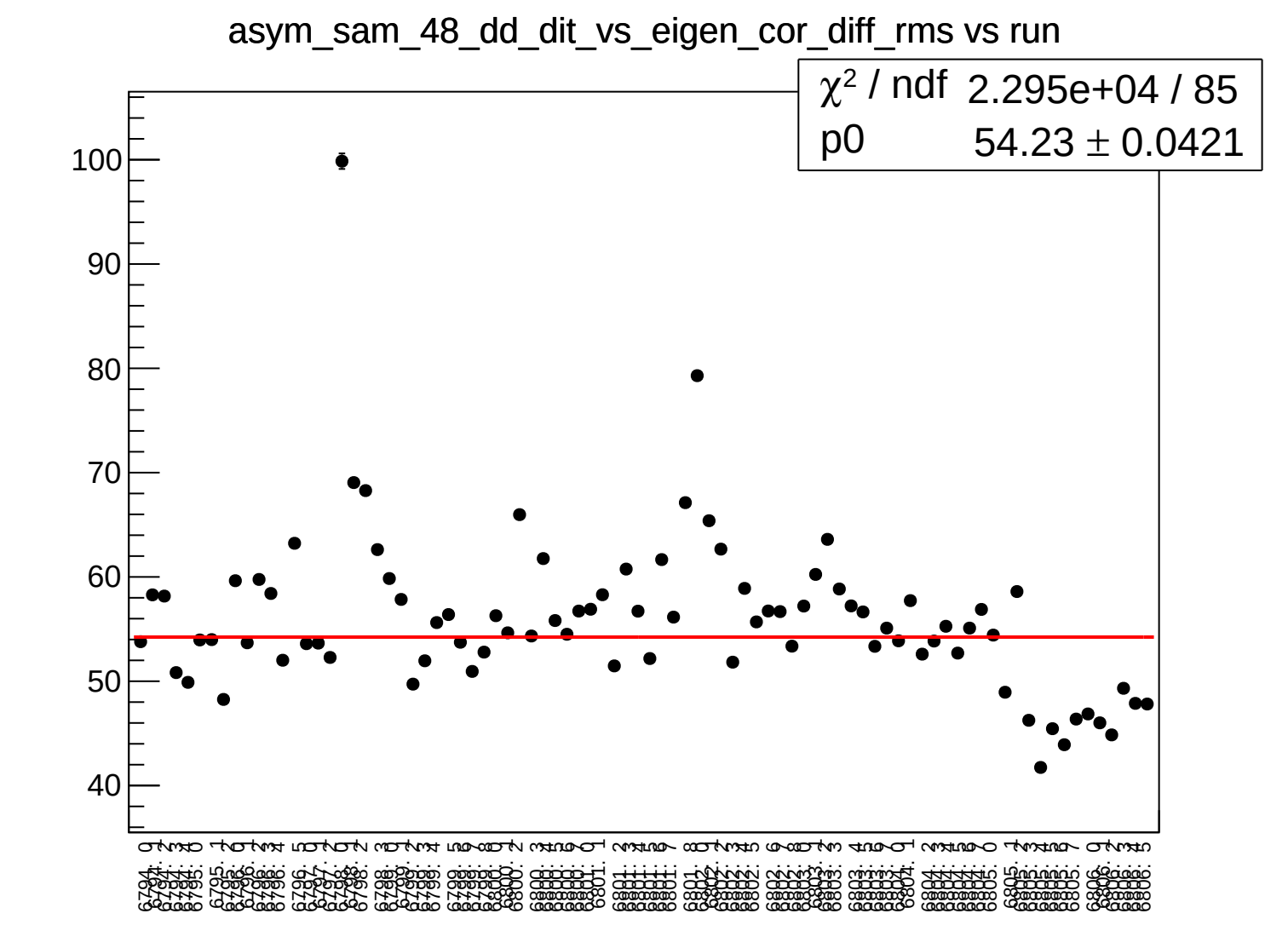

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 −0.1045 ± 0.05954
pull
Entries 86
Mean 36.41
Std Dev 0

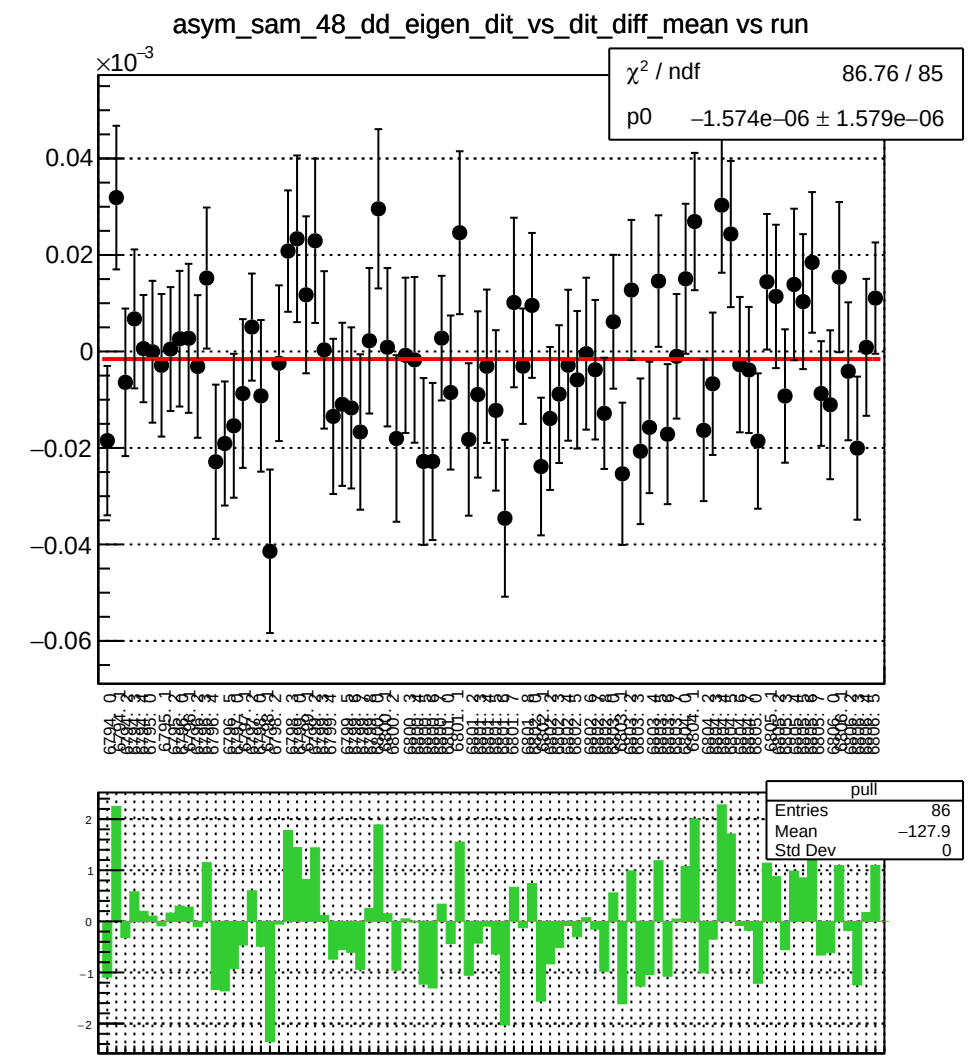

pull1D
Entries 86
Mean 0.01192
Std Dev 1.053

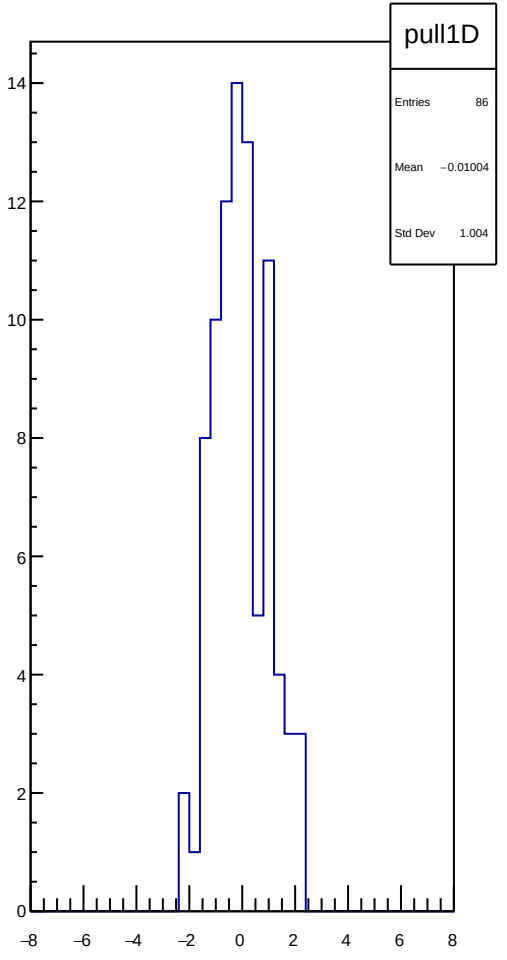

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+04 / 85
p0 54.23 ± 0.0421
100
90
80
70
60
50
40

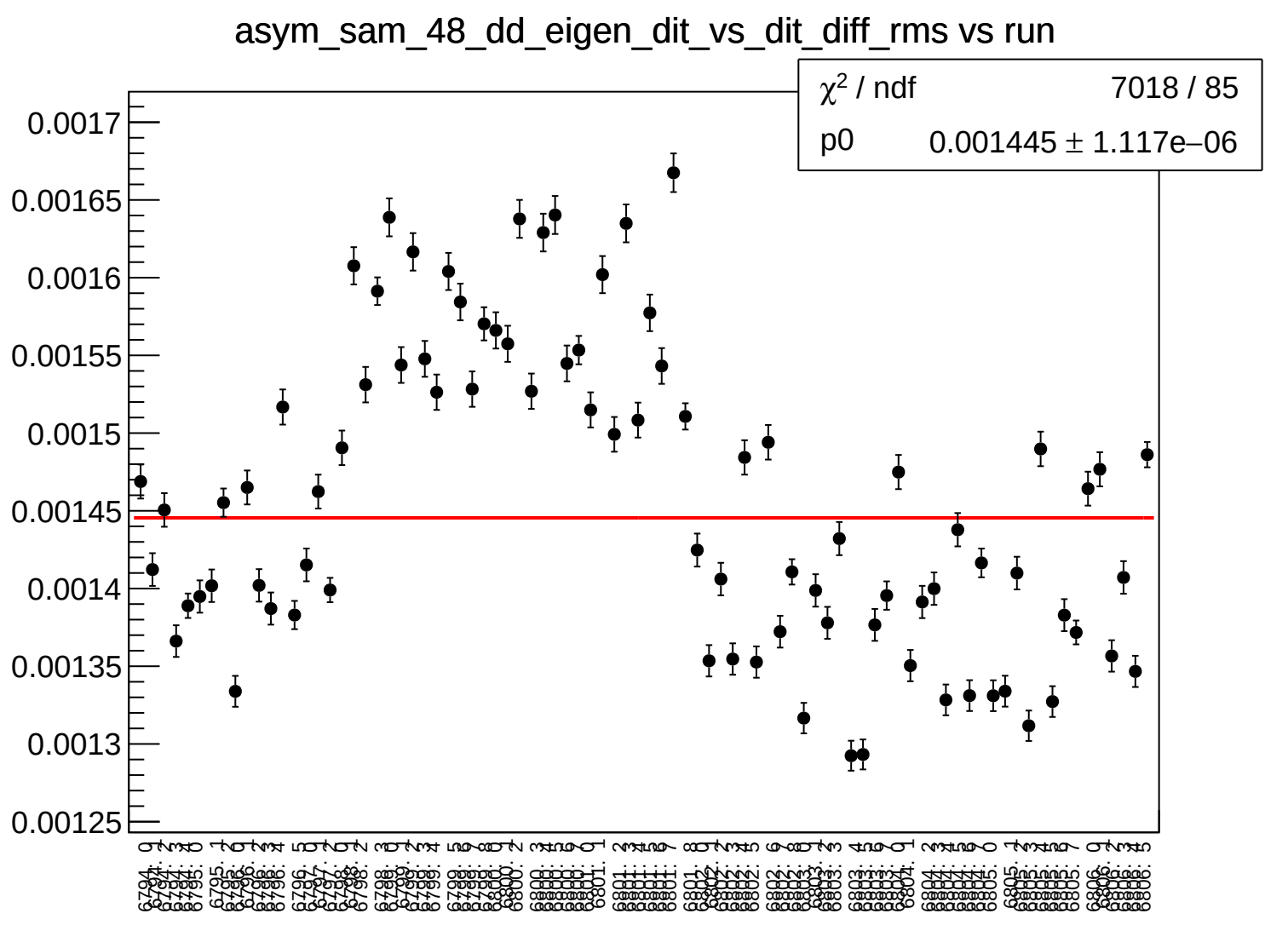

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 −0.1045 ± 0.05954
pull
Entries 86
Mean 36.41
Std Dev 0

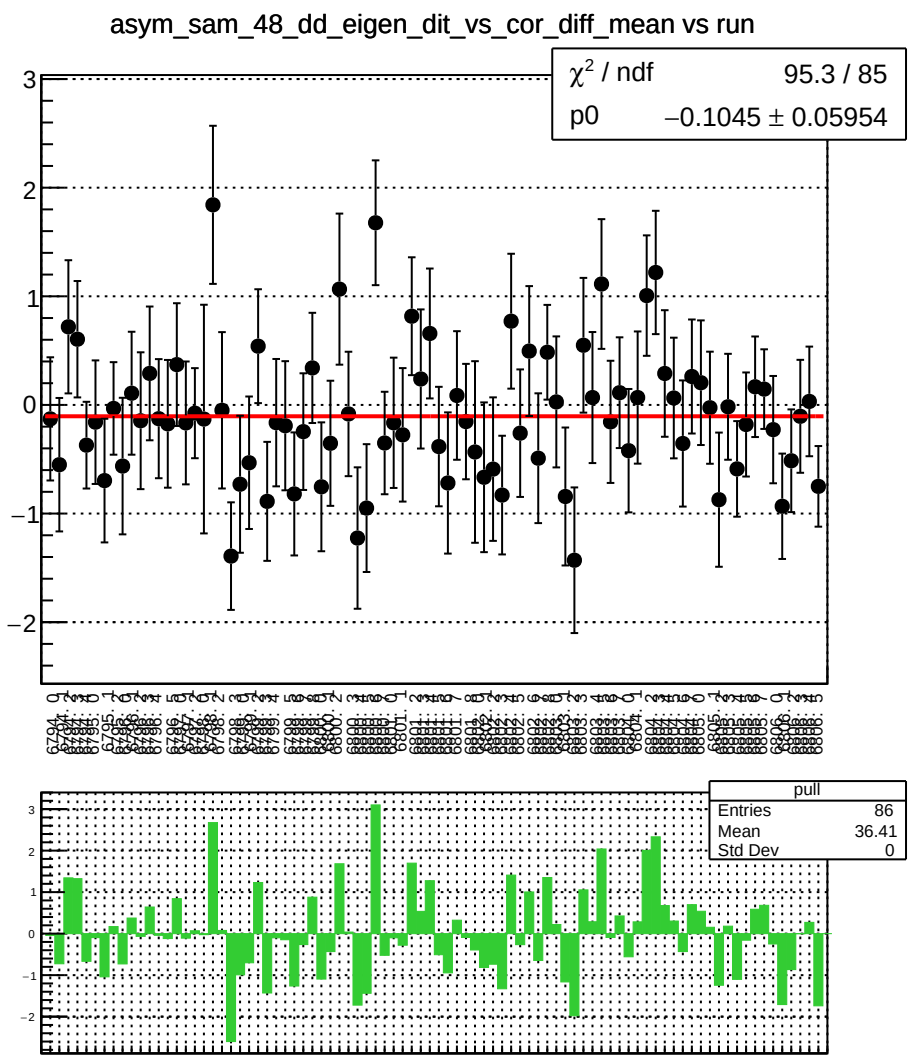

pull1D
Entries 86
Mean 0.01192
Std Dev 1.053

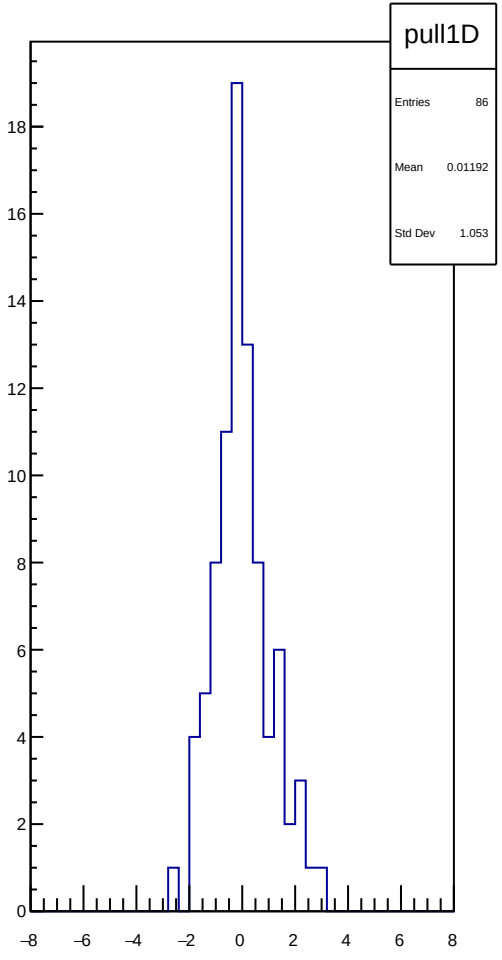

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+04 / 85
p0 54.23 ± 0.0421
100
90
80
70
60
50
40

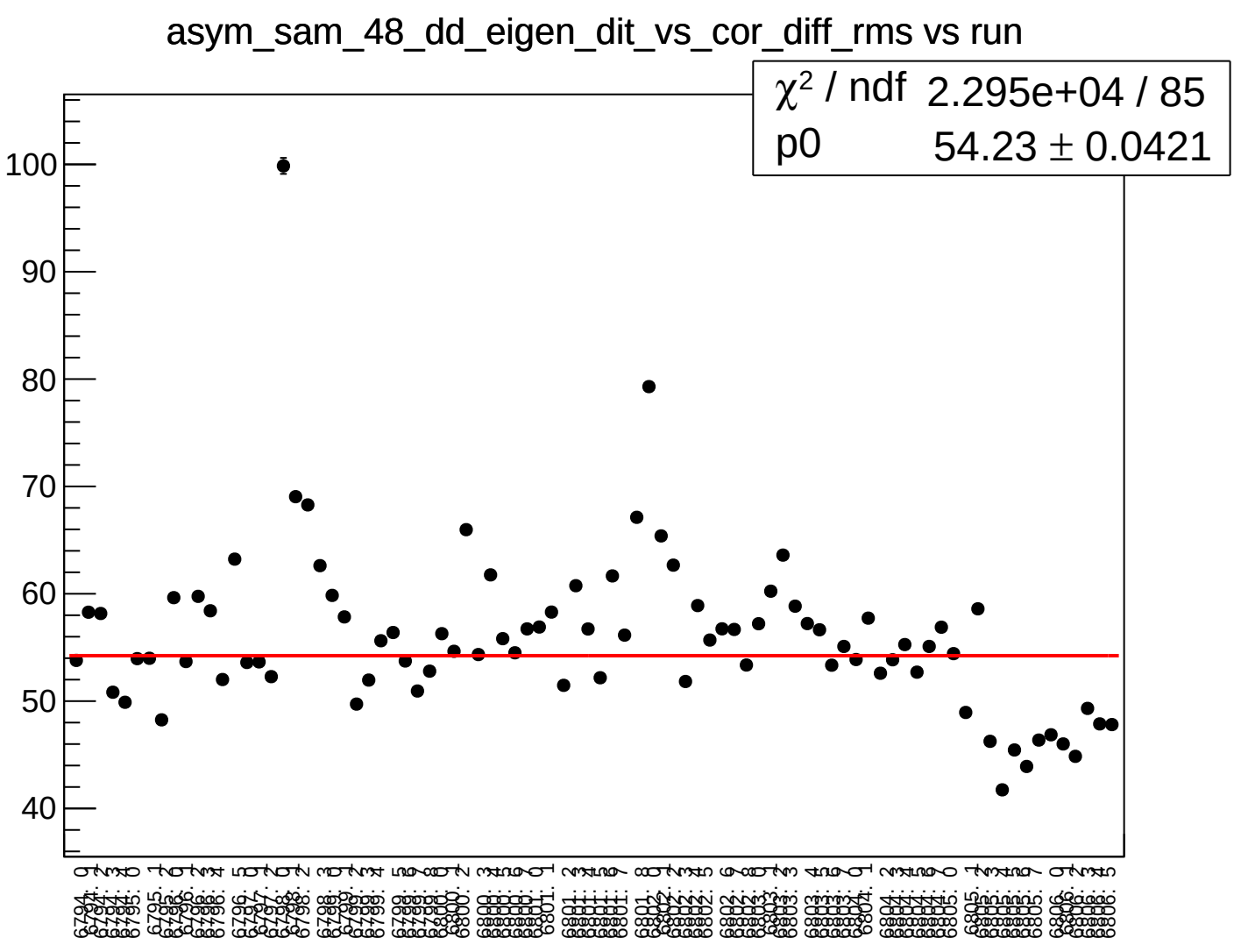

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.76 / 85
p0 −1.574e−06 ± 1.579e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −127.9
Std Dev 0
2
1
0
−1
−2

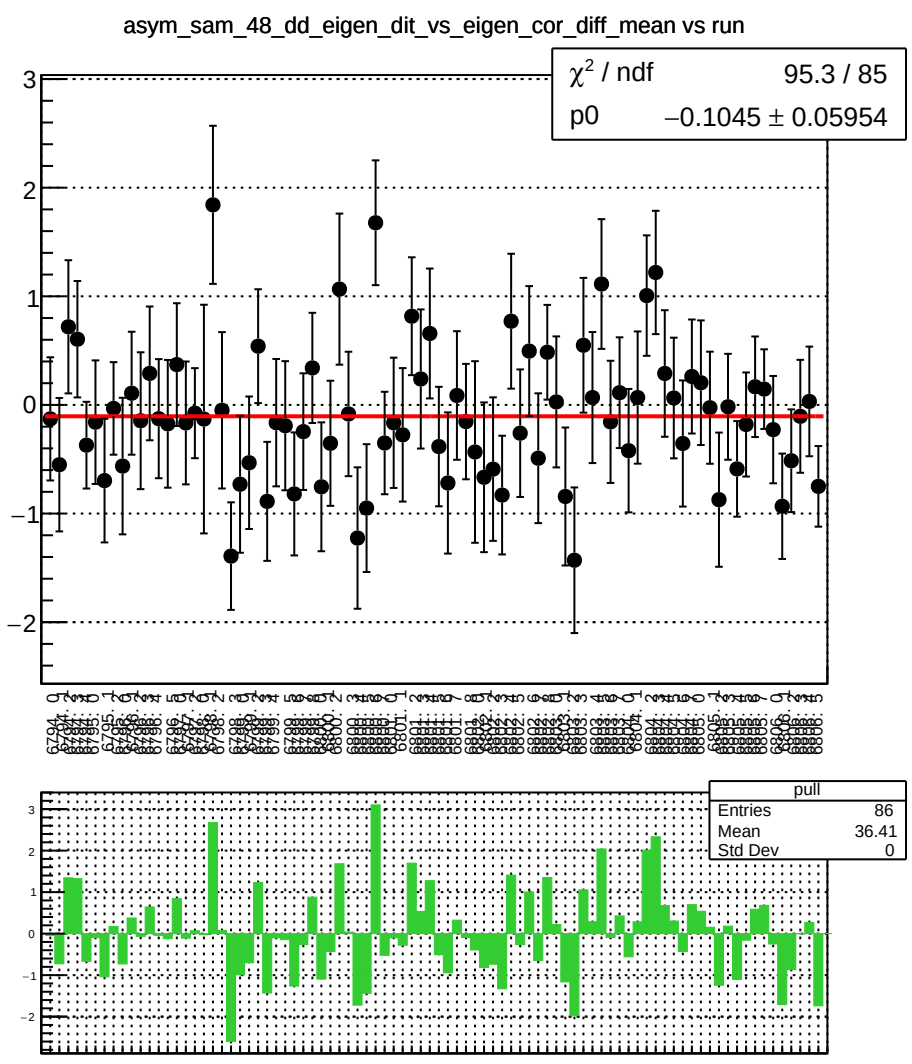

pull1D
Entries 86
Mean −0.01004
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

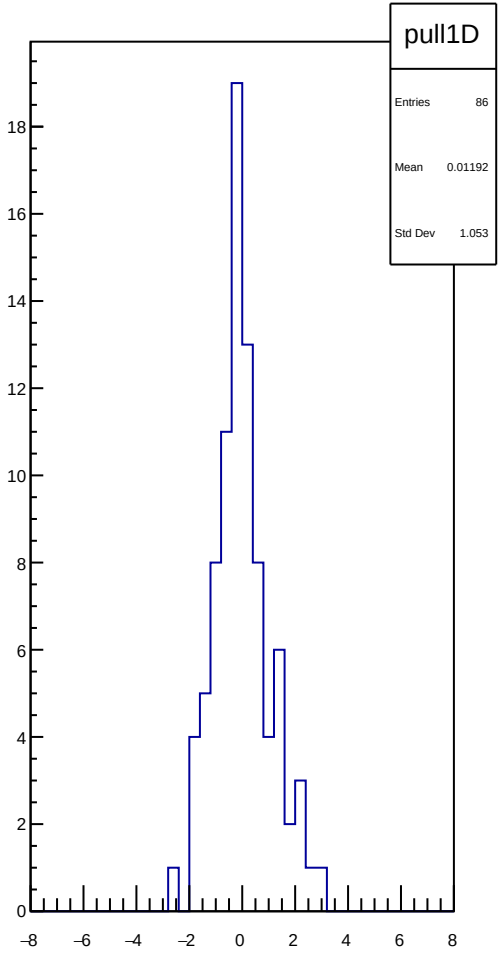

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7018 / 85
p0 0.001445 ± 1.117e−06
0.0017
0.00165
0.0016
0.00155
0.0015
0.00145
0.0014
0.00135
0.0013
0.00125

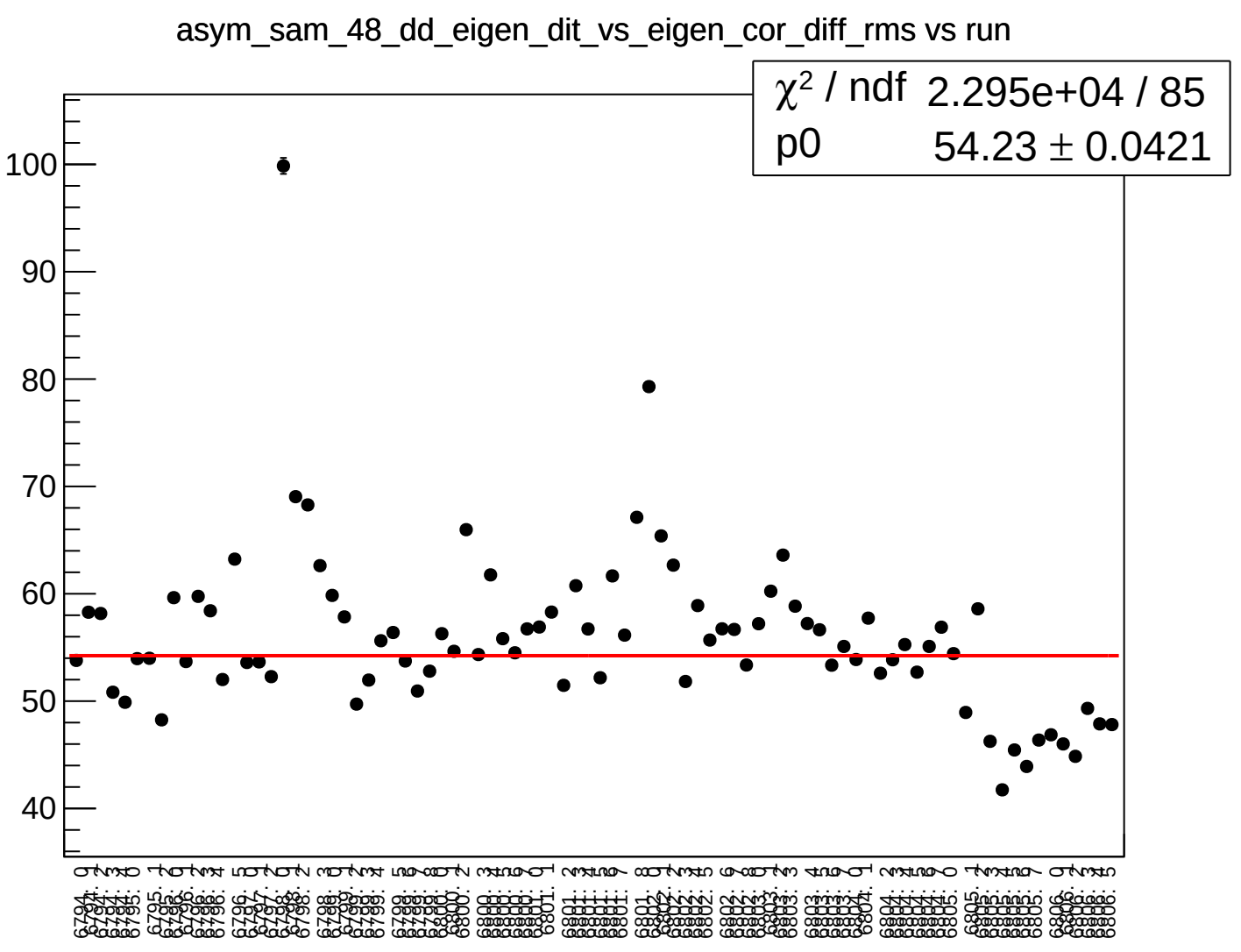

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 −0.1045 ± 0.05954
pull
Entries 86
Mean 36.41
Std Dev 0

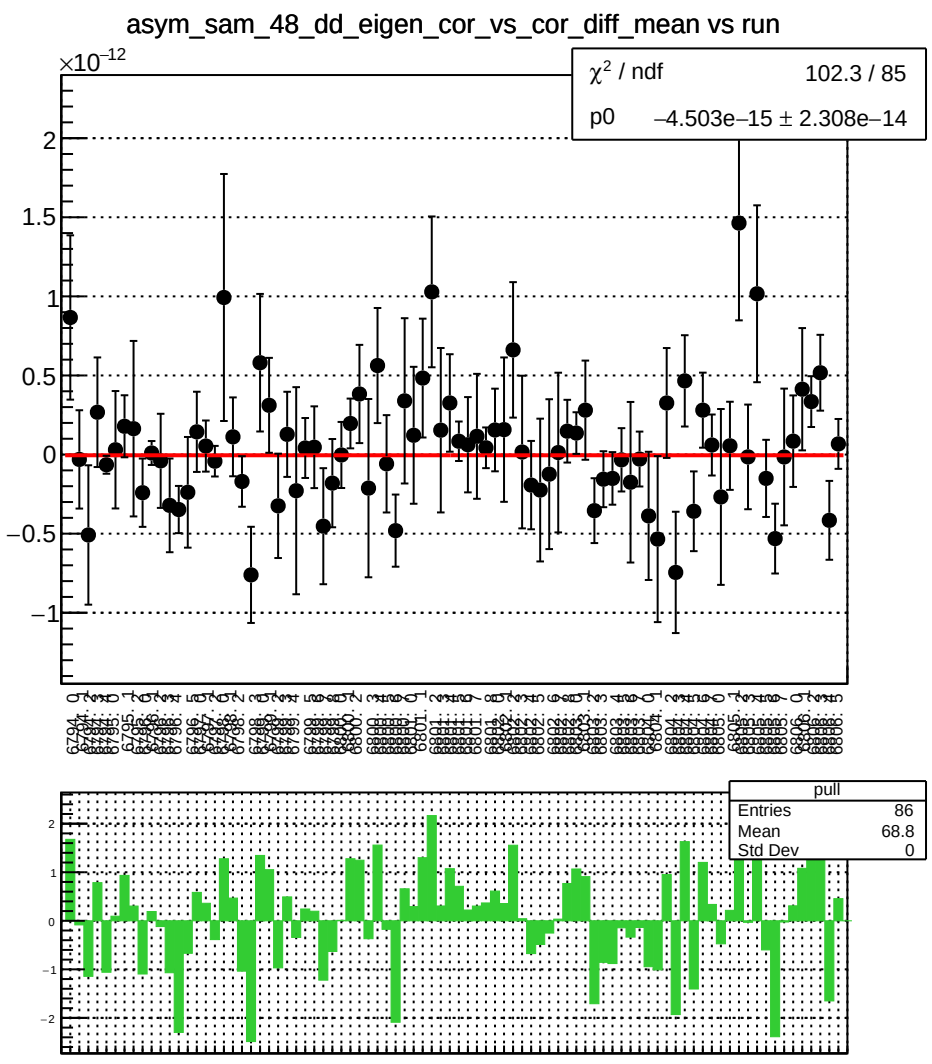

pull1D
Entries 86
Mean 0.01192
Std Dev 1.053

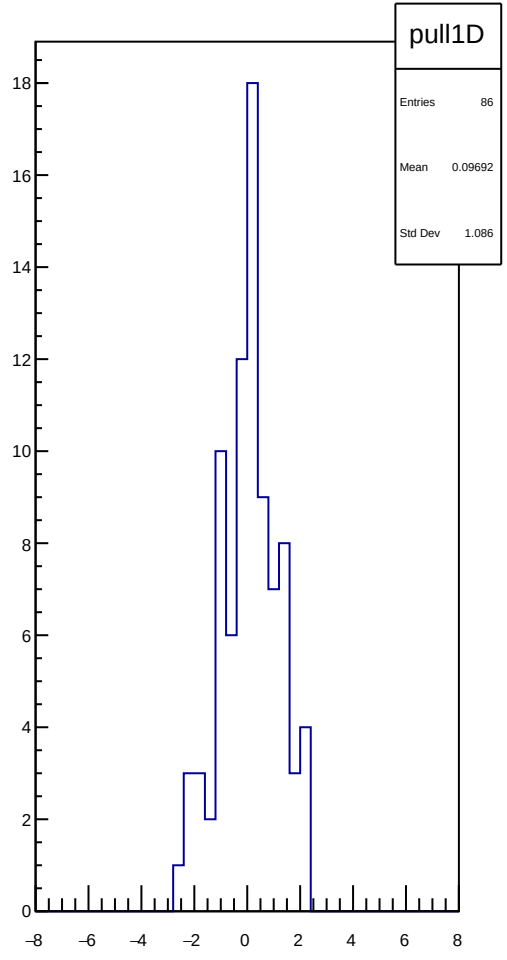

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.295e+04 / 85
p0 54.23 ± 0.0421
100
90
80
70
60
50
40

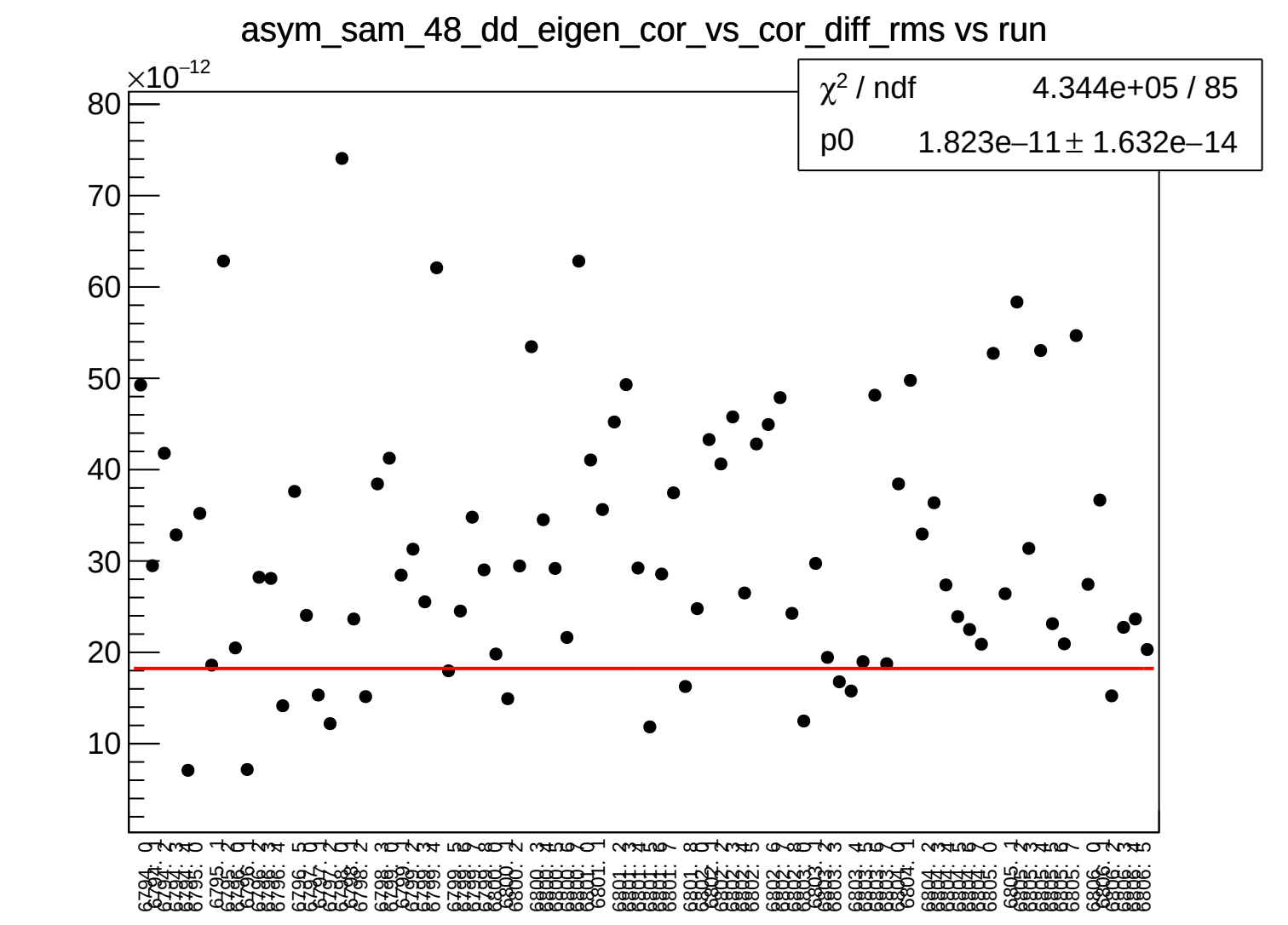

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.3 / 85
p0 −0.1045 ± 0.05954
pull
Entries 86
Mean 36.41
Std Dev 0

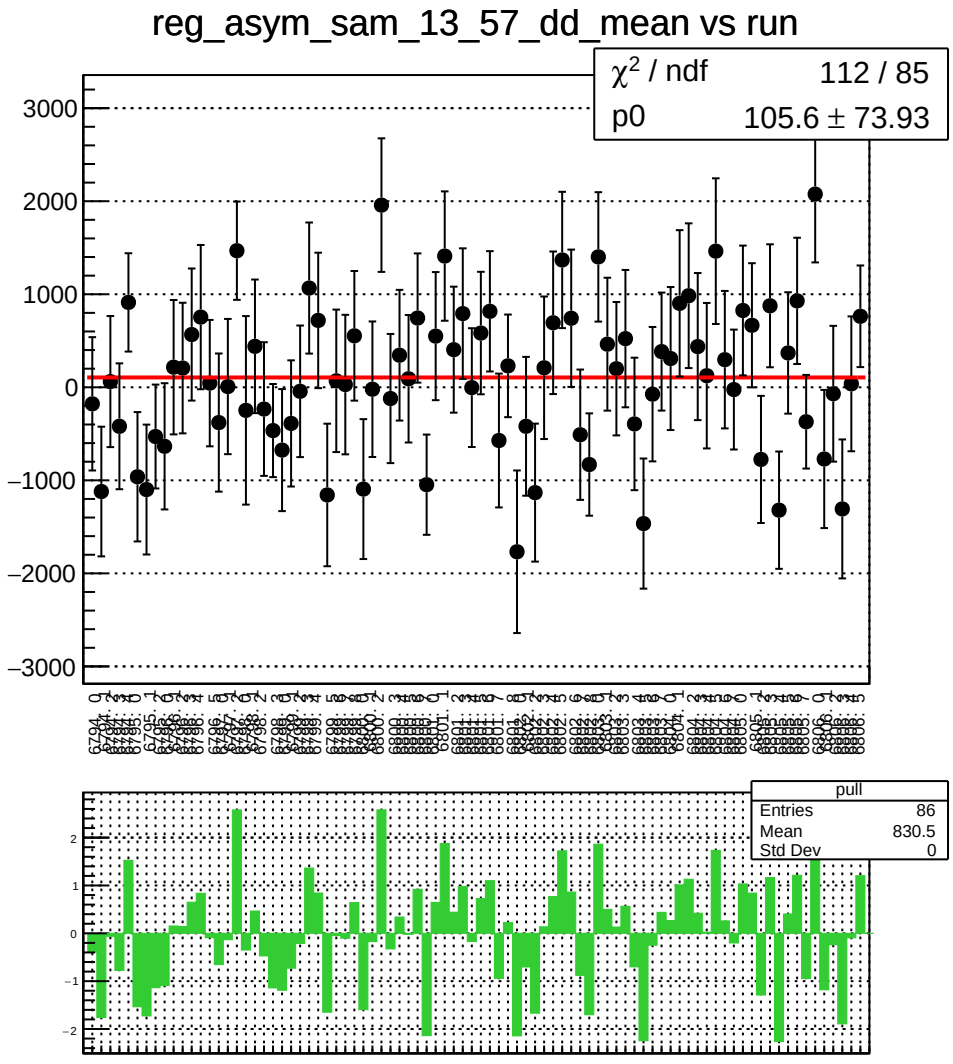

pull1D
Entries 86
Mean 0.01192
Std Dev 1.053

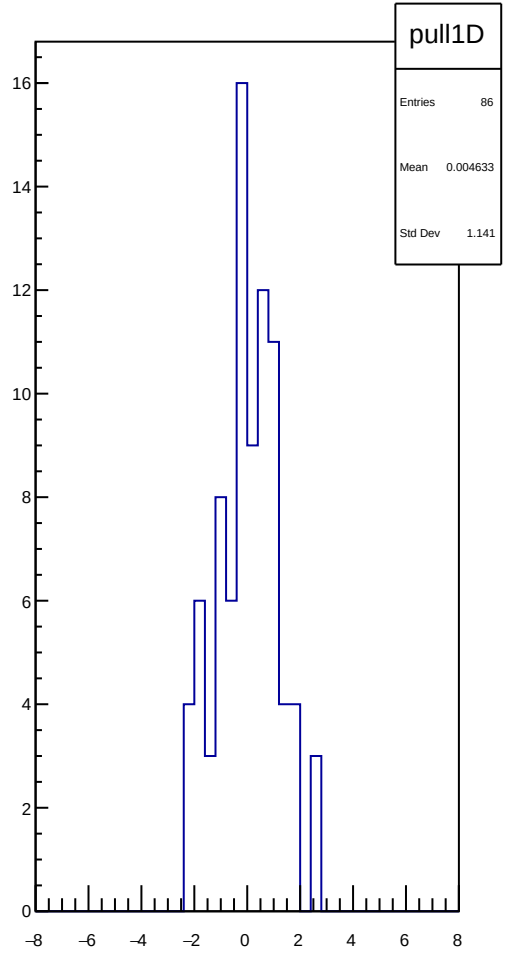

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.295e+04 / 85
p0 54.23 ± 0.0421
100
90
80
70
60
50
40

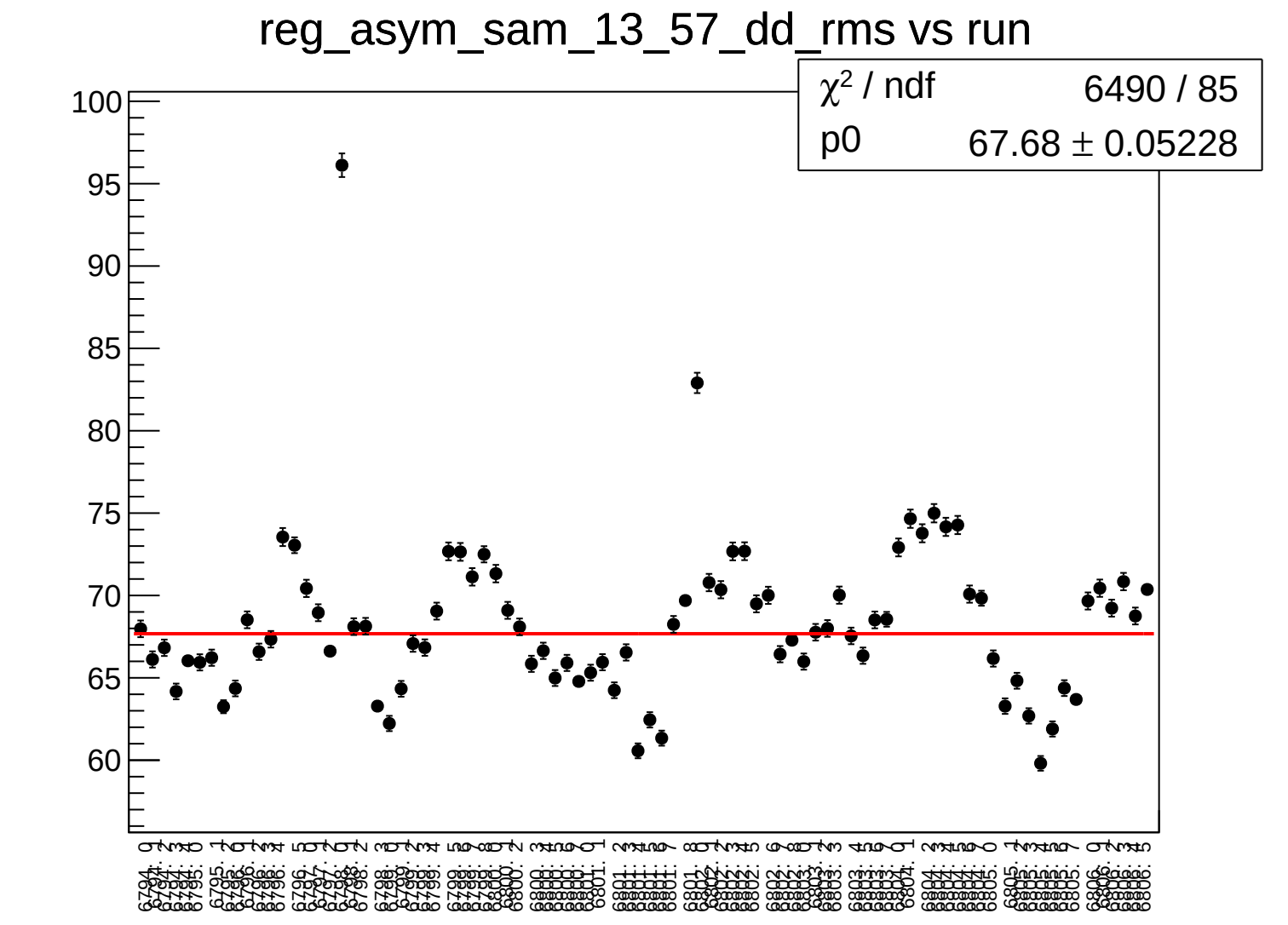

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.3 / 85
p0 −4.503e−15 ± 2.308e−14
pull
Entries 86
Mean 68.8
Std Dev 0

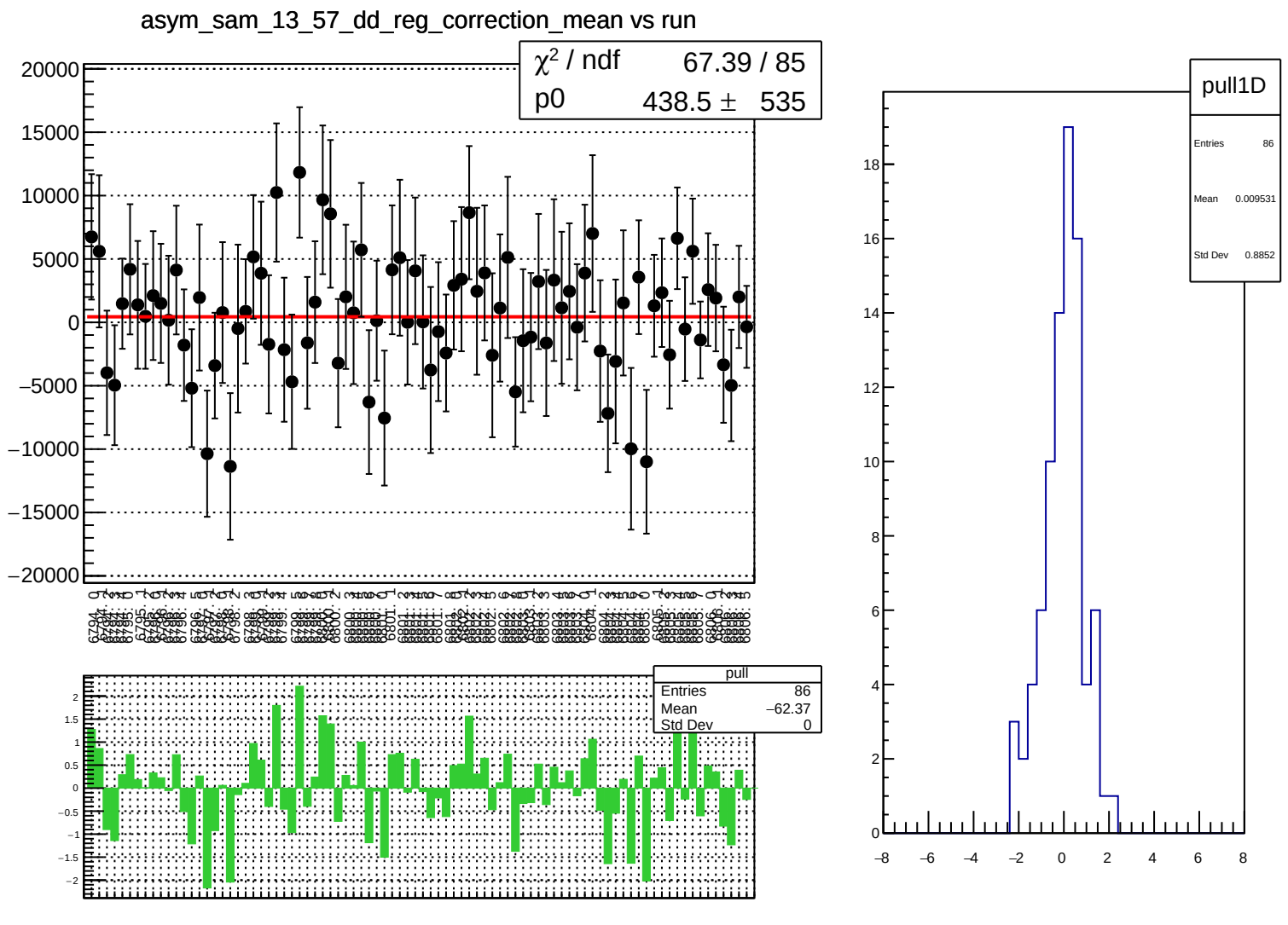

pull1D
Entries 86
Mean 0.09692
Std Dev 1.086

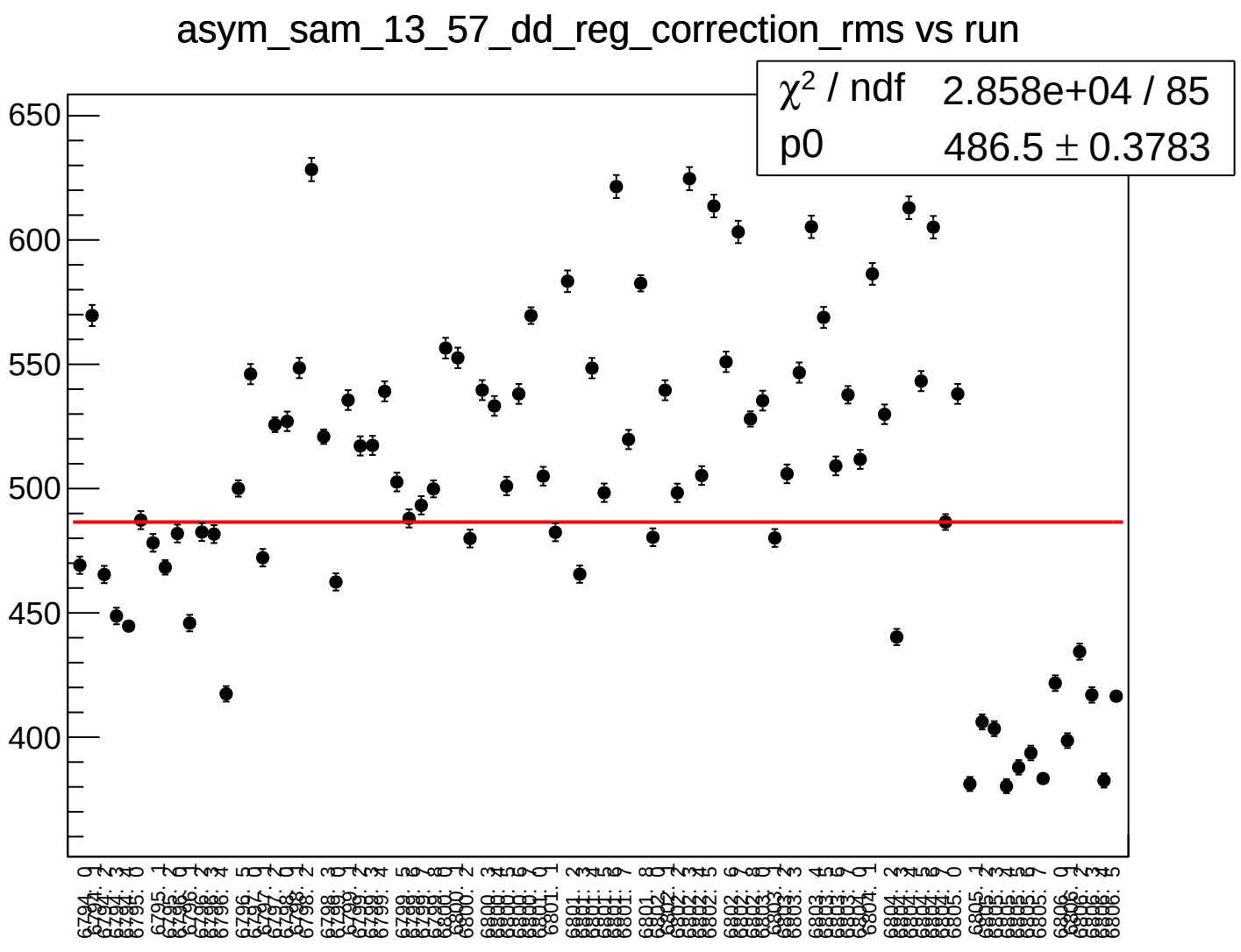

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 4.344e+05 / 85
p0 1.823e−11 ± 1.632e−14

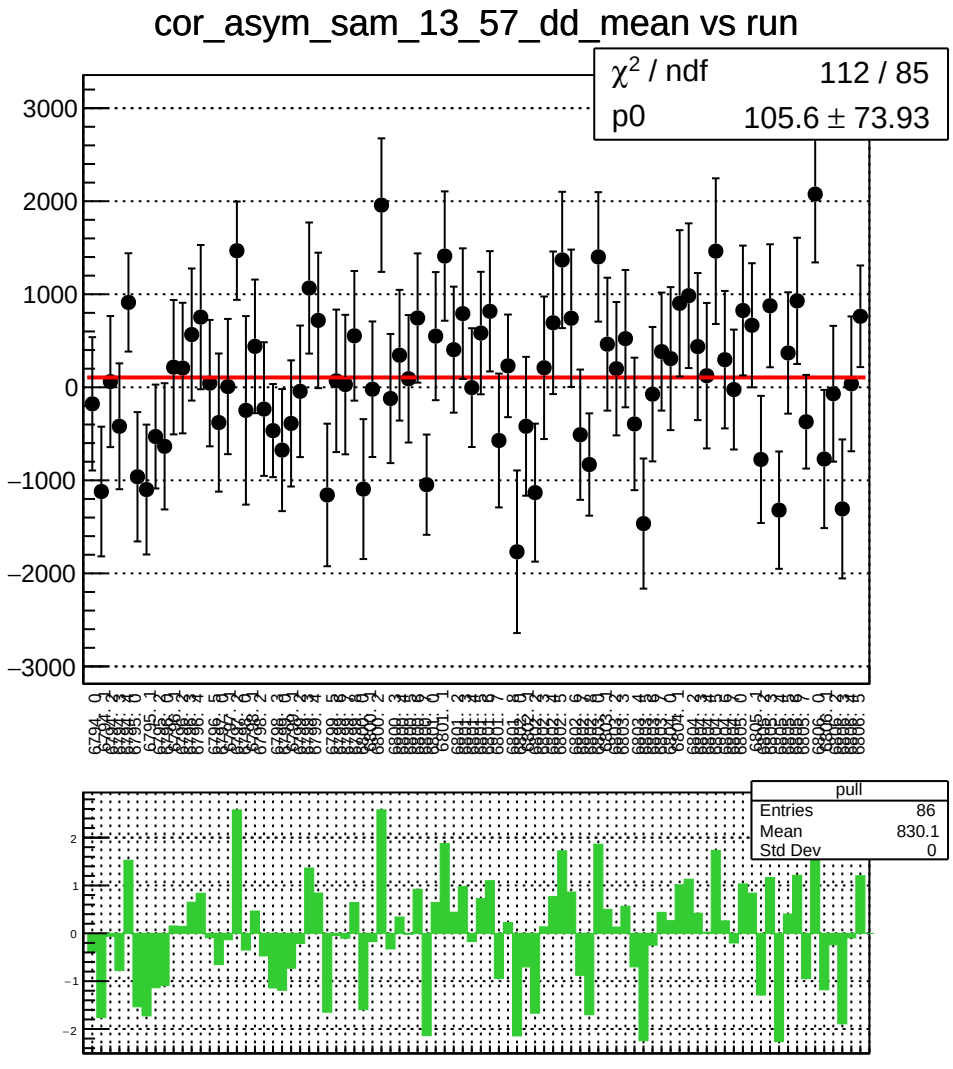

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 112 / 85
p0 105.6 ± 73.93
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 830.5
Std Dev 0
2
1
0
−1
−2

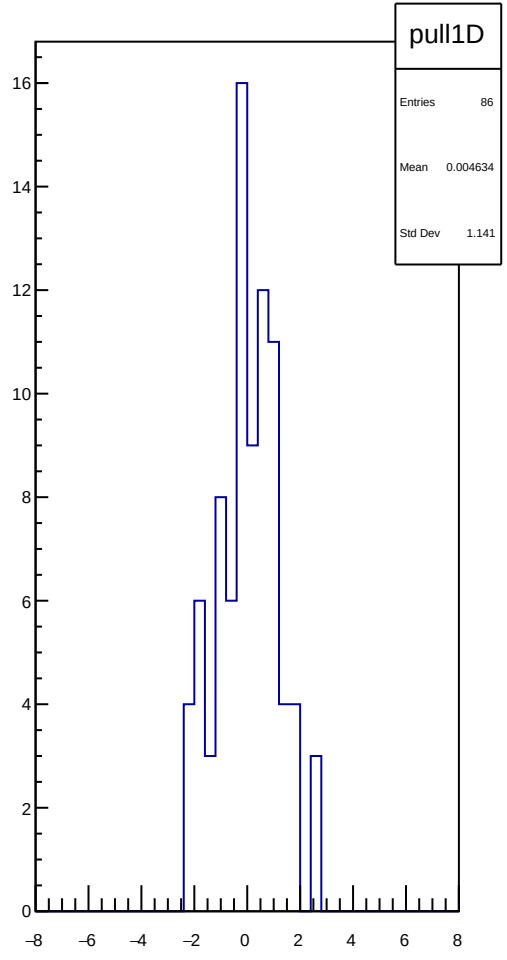

pull1D
Entries 86
Mean 0.004633
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

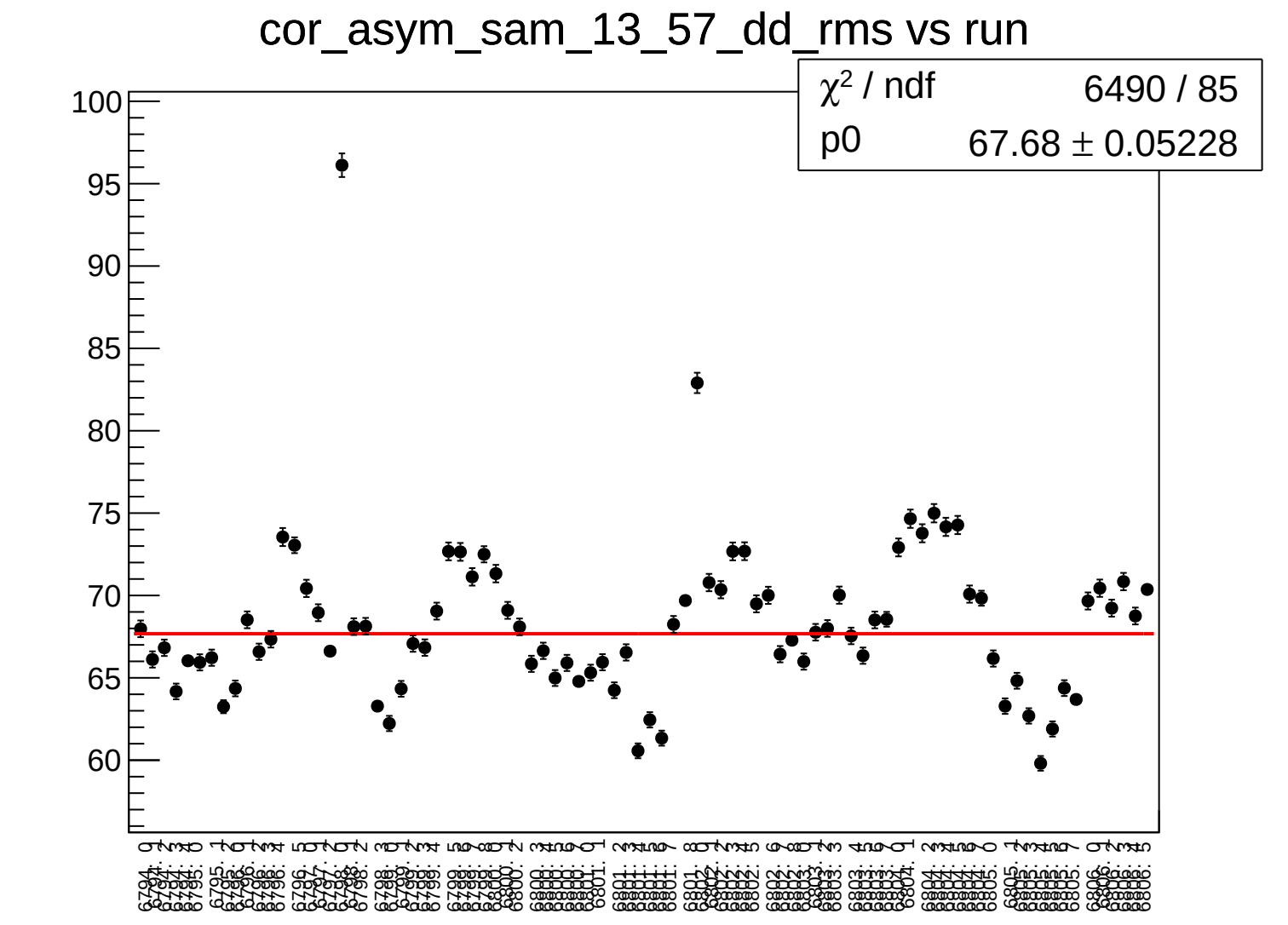

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 6490 / 85
p0 67.68 ± 0.05228
100
95
90
85
80
75
70
65
60

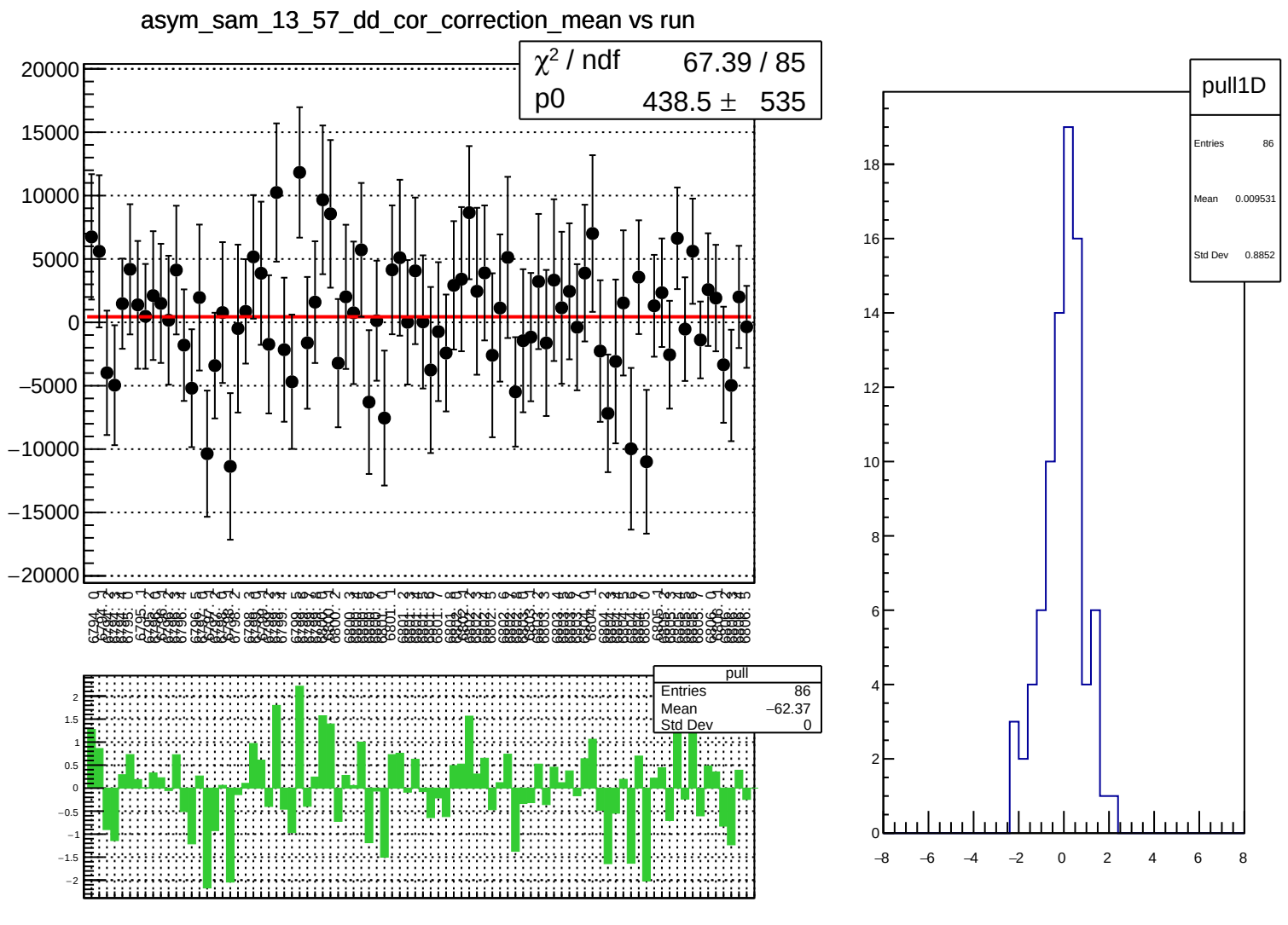

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 67.39 / 85
p0 438.5 ± 535
pull
Entries 86
Mean −62.37
Std Dev 0
pull1D
Entries 86
Mean 0.009531
Std Dev 0.8852

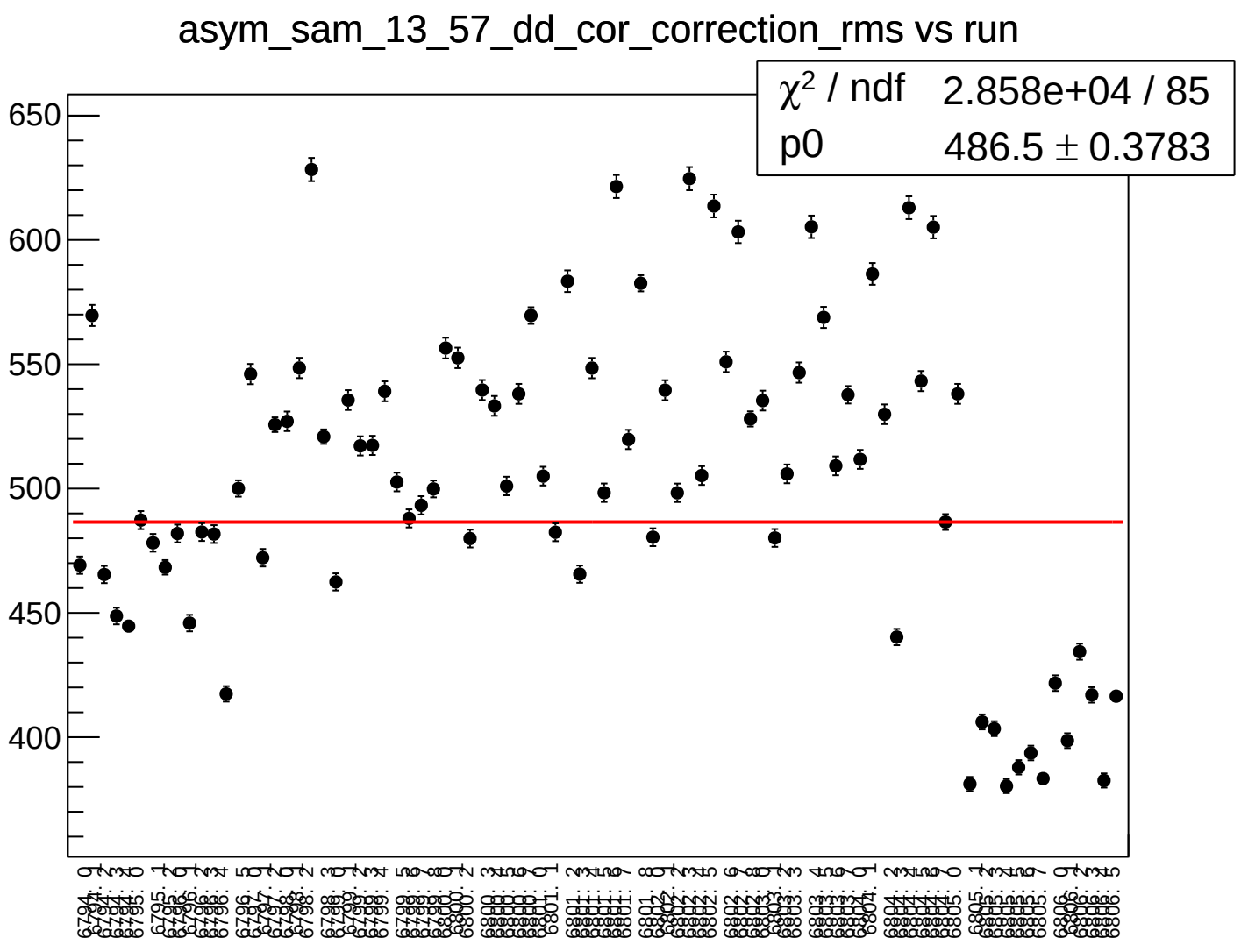

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 2.858e+04 / 85
p0 486.5 ± 0.3783
650
600
550
500
450
400

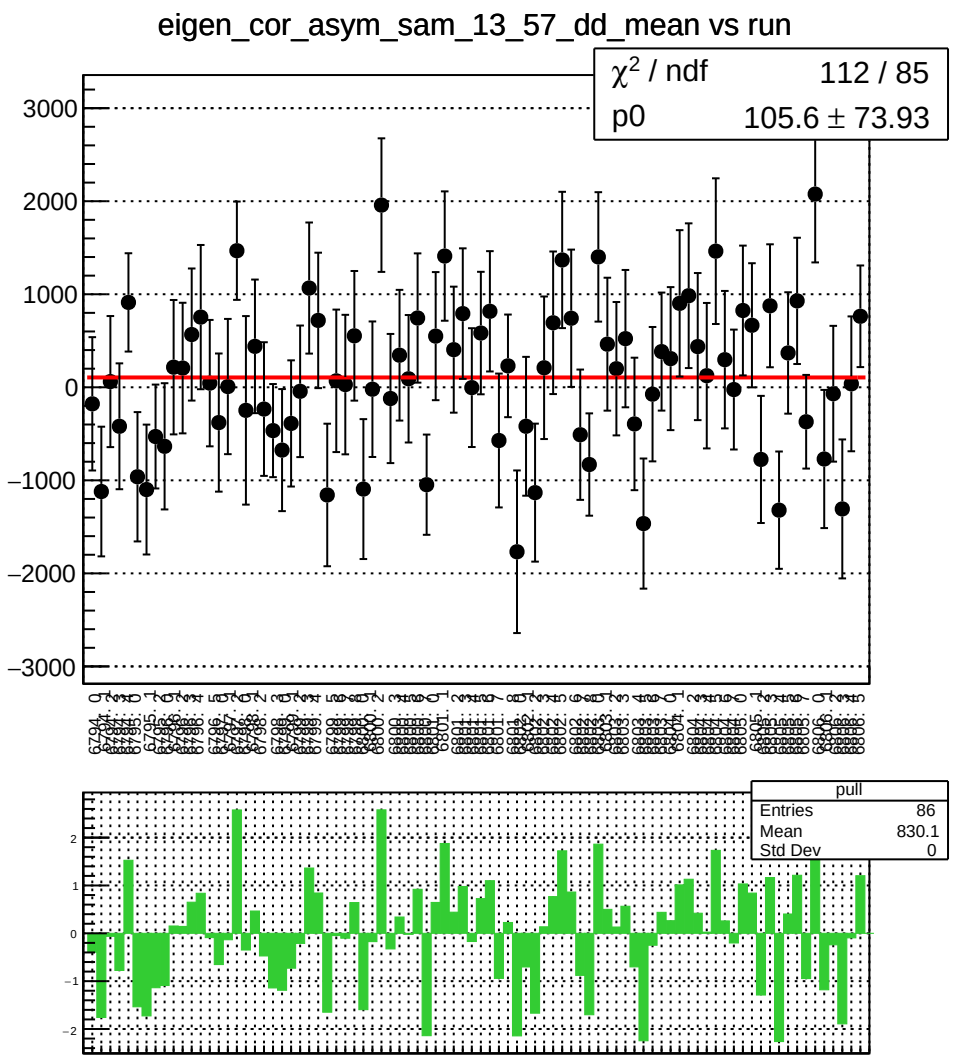

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 112 / 85
p0 105.6 ± 73.93
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean 830.1
Std Dev 0
2
1
0
−1
−2

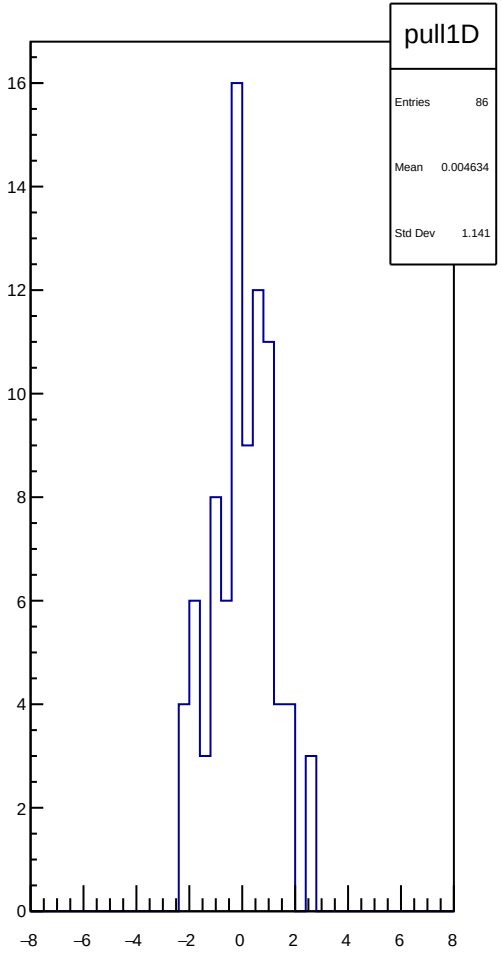

pull1D
Entries 86
Mean 0.004634
Std Dev 1.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

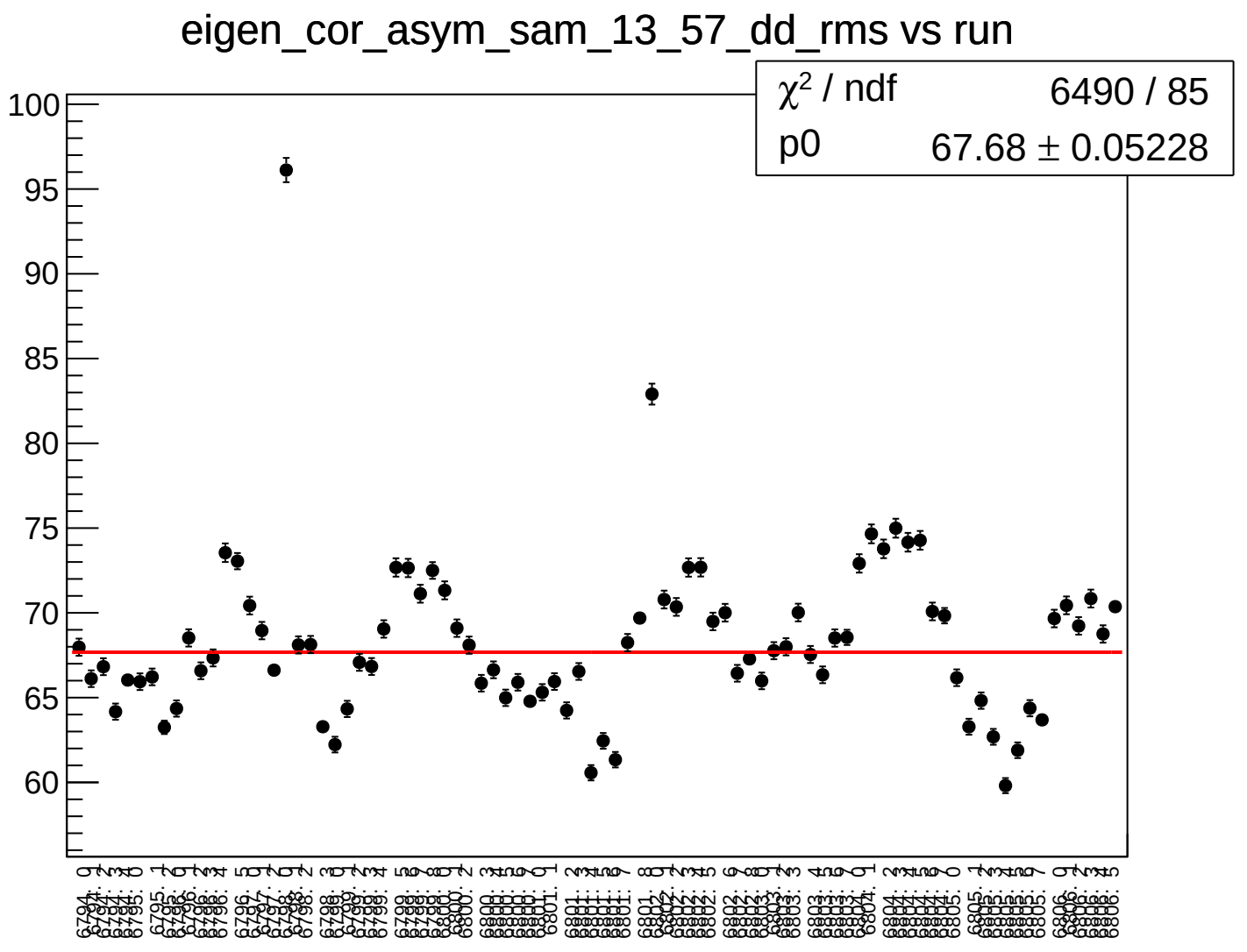

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6490 / 85
p0 67.68 ± 0.05228
100
95
90
85
80
75
70
65
60

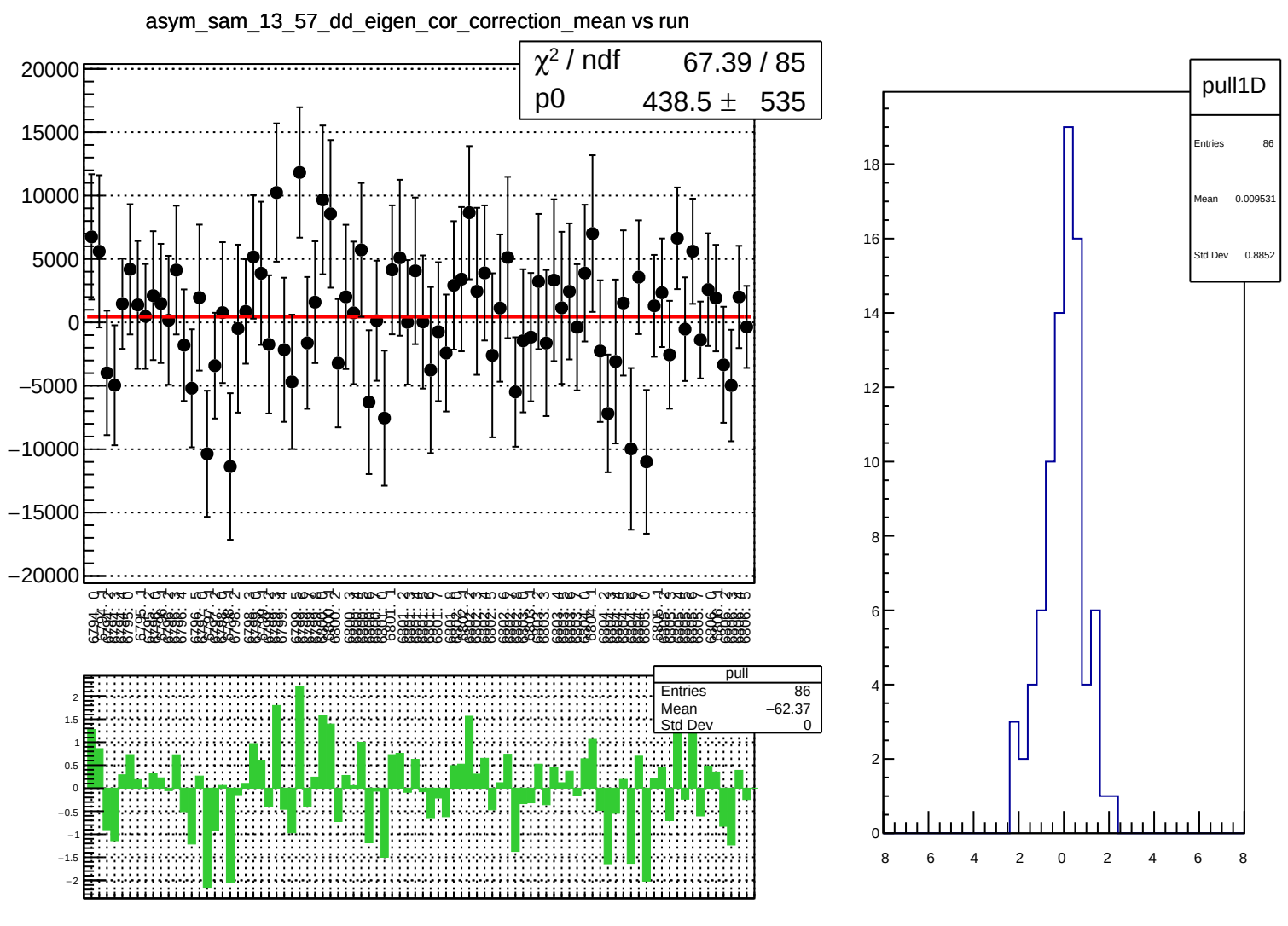

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 67.39 / 85
p0 438.5 ± 535
pull
Entries 86
Mean −62.37
Std Dev 0
pull1D
Entries 86
Mean 0.009531
Std Dev 0.8852

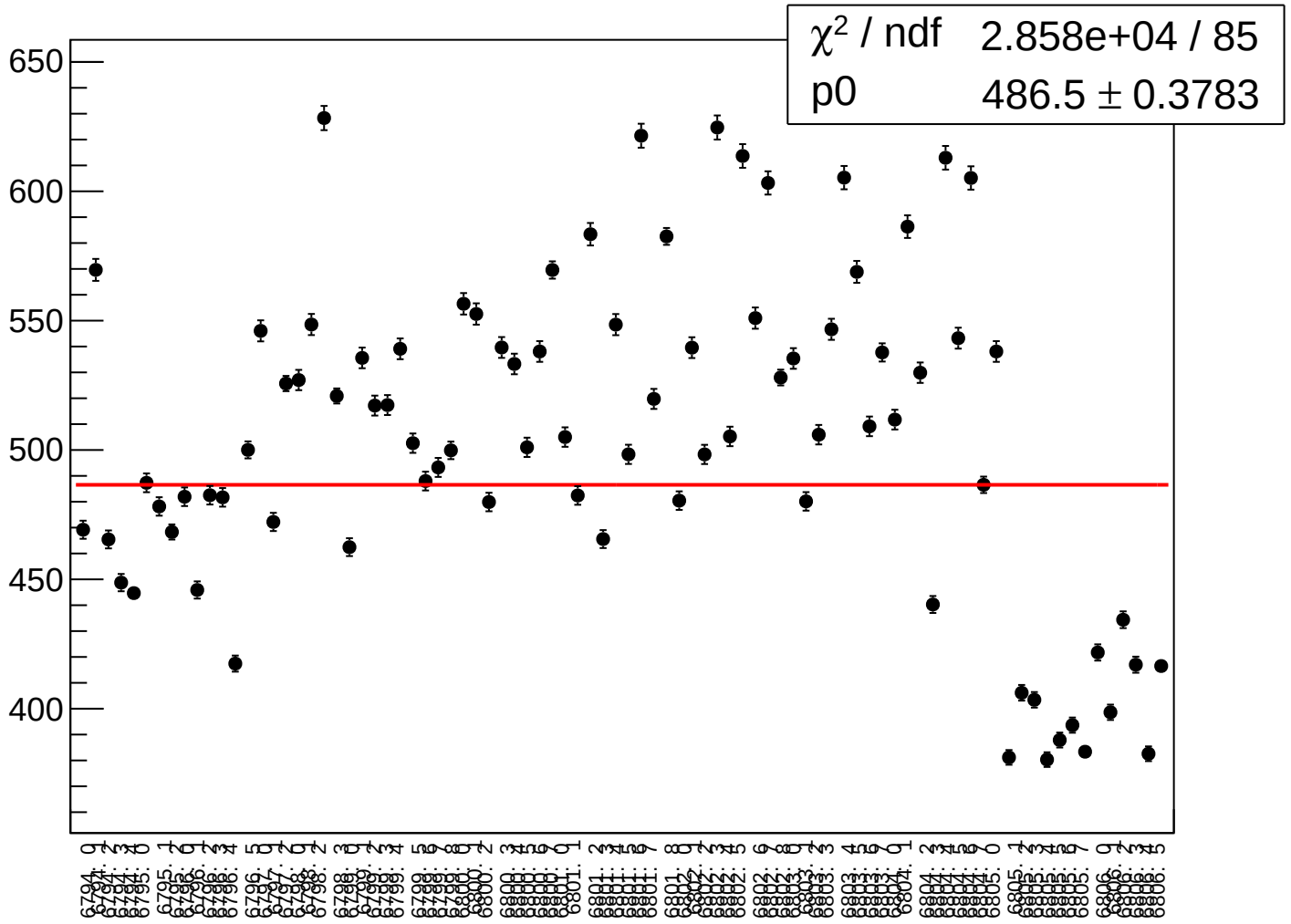

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 2.858e+04 / 85
p0 486.5 ± 0.3783
650
600
550
500
450
400

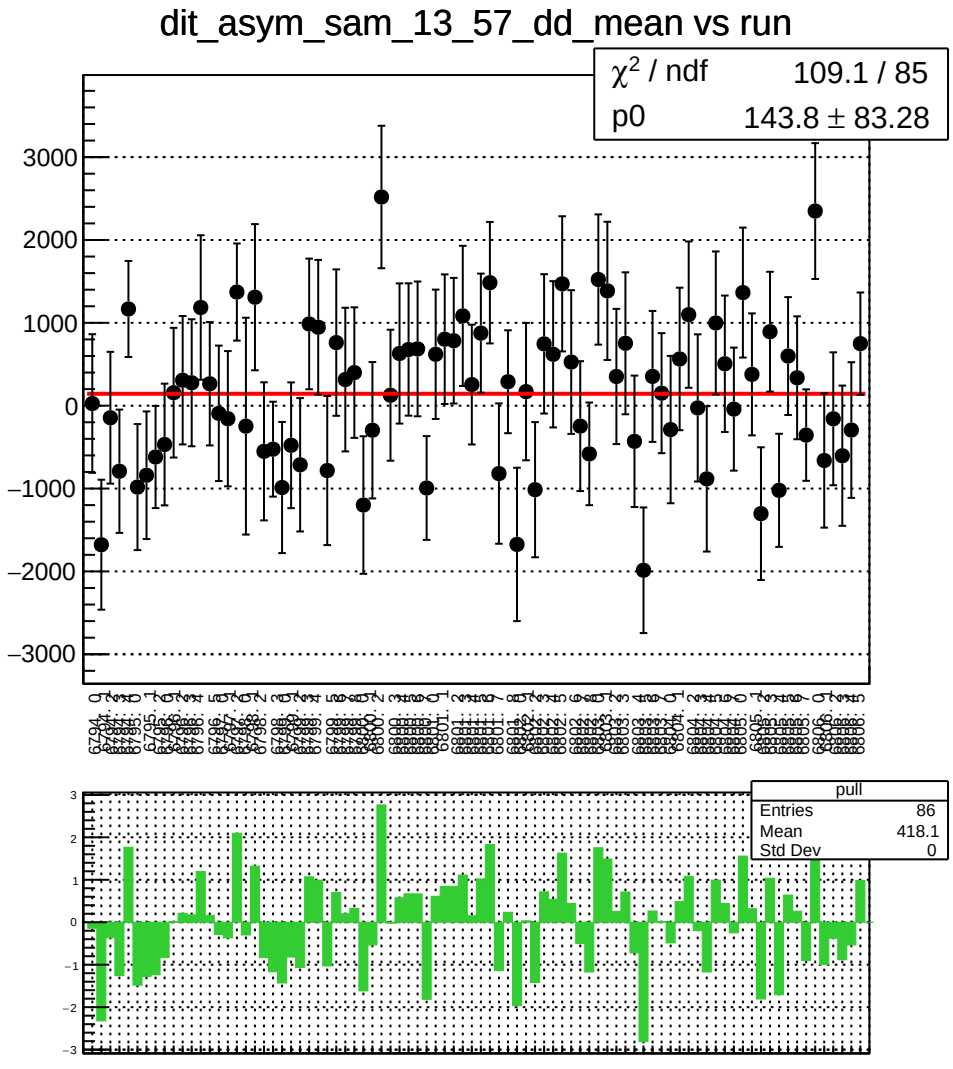

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 112 / 85
p0 105.6 ± 73.93
pull
Entries 86
Mean 830.1
Std Dev 0

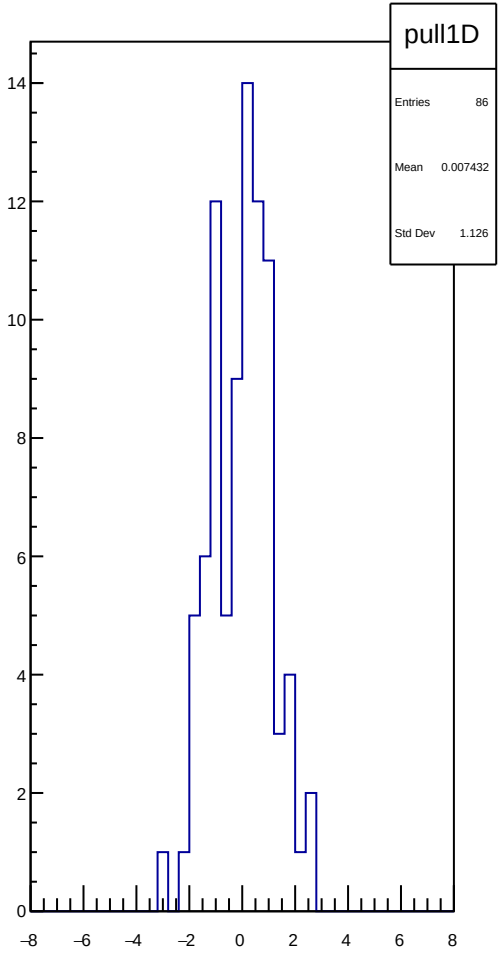

pull1D
Entries 86
Mean 0.004634
Std Dev 1.141

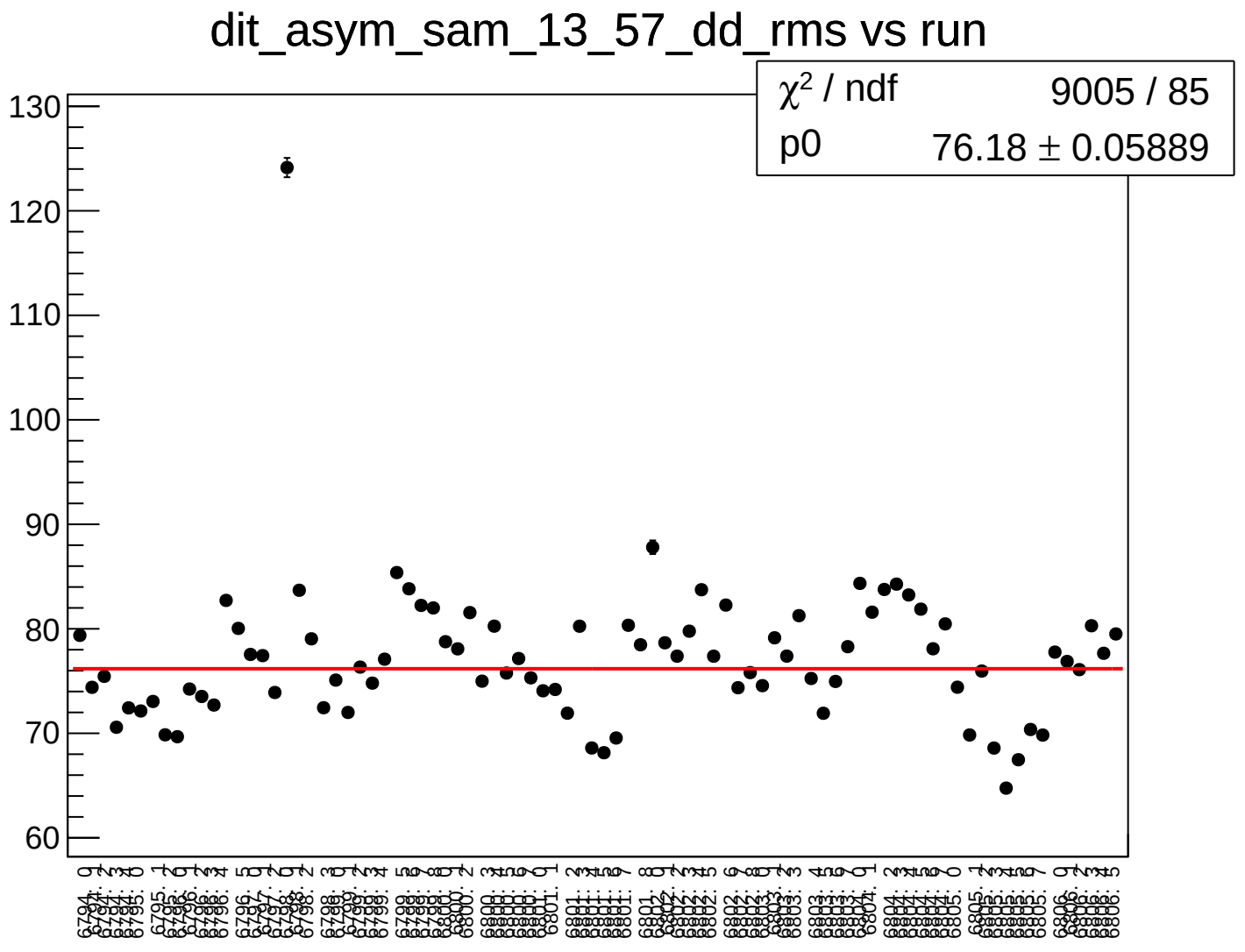

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 6490 / 85
p0 67.68 ± 0.05228
100
95
90
85
80
75
70
65
60

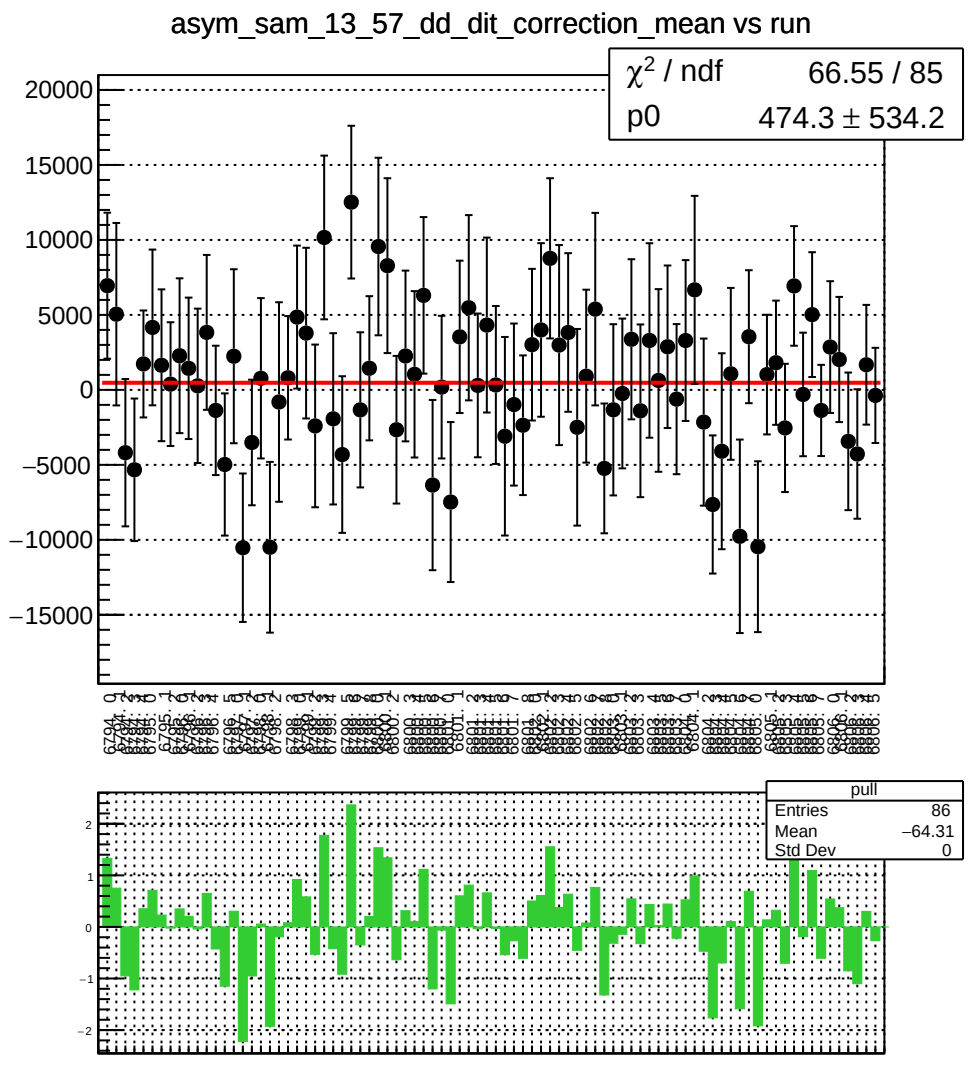

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.39 / 85
p0 438.5 ± 535
pull
Entries 86
Mean −62.37
Std Dev 0
pull1D
Entries 86
Mean 0.009531
Std Dev 0.8852

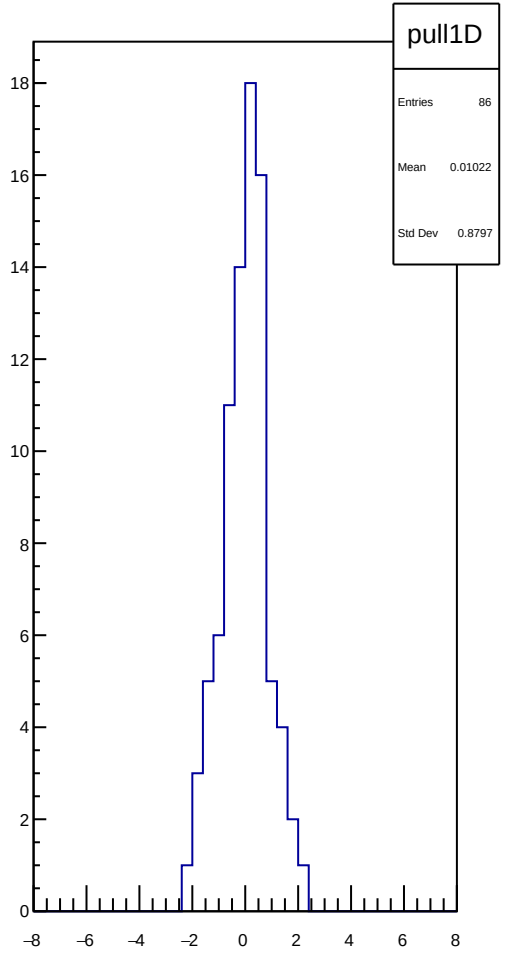

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.858e+04 / 85
p0 486.5 ± 0.3783
650
600
550
500
450
400

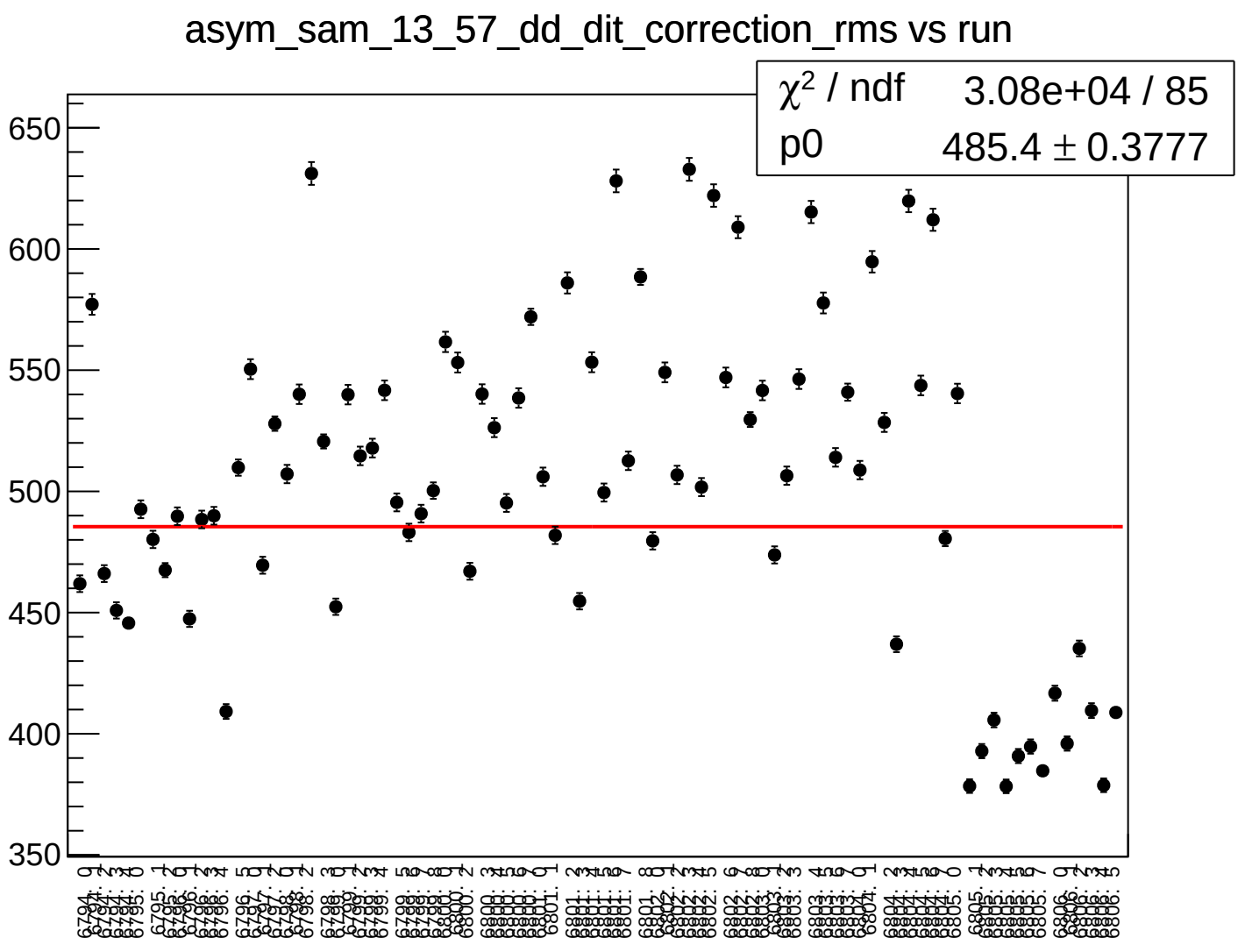

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 109.1 / 85
p0 143.8 ± 83.28
pull
Entries 86
Mean 418.1
Std Dev 0

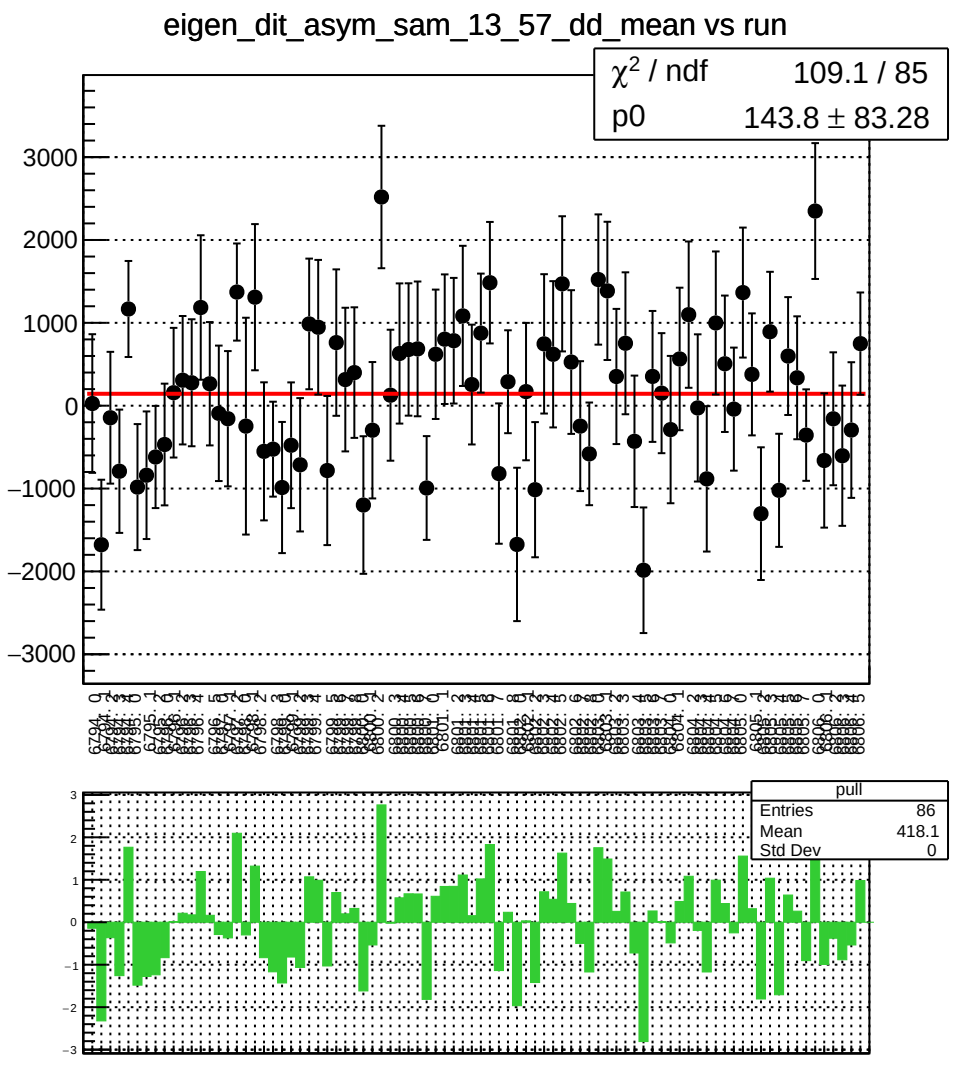

pull1D
Entries 86
Mean 0.007432
Std Dev 1.126

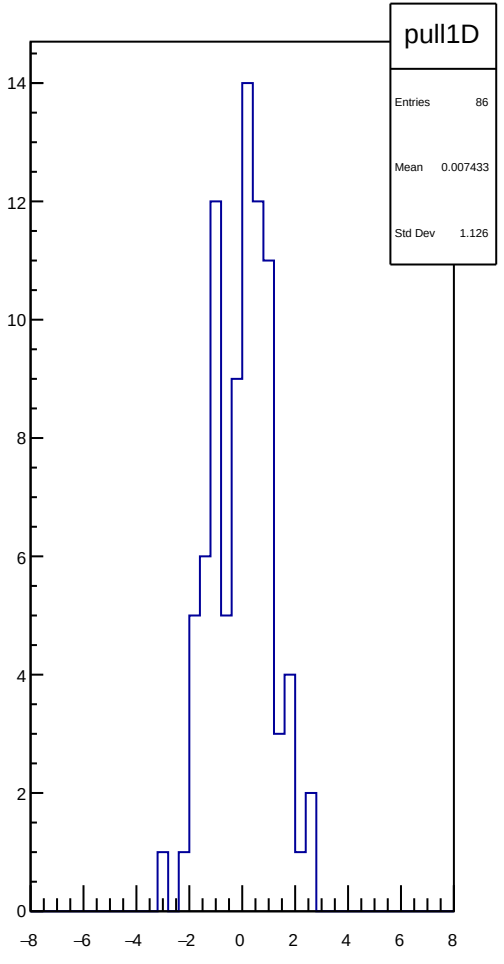

dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9005 / 85
p0 76.18 ± 0.05889
130
120
110
100
90
80
70
60

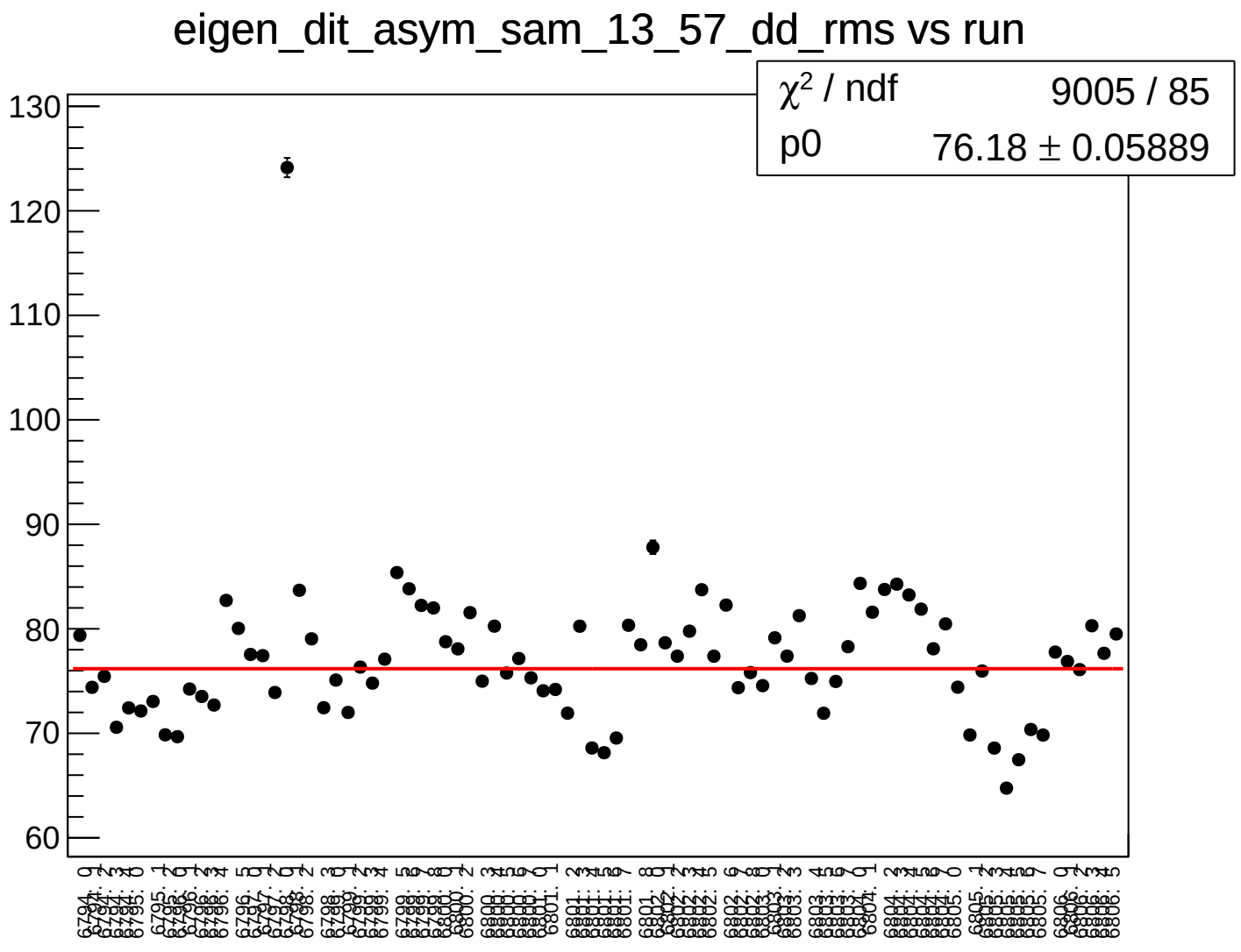

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 66.55 / 85
p0 474.3 ± 534.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −64.31
Std Dev 0
2
1
0
−1
−2

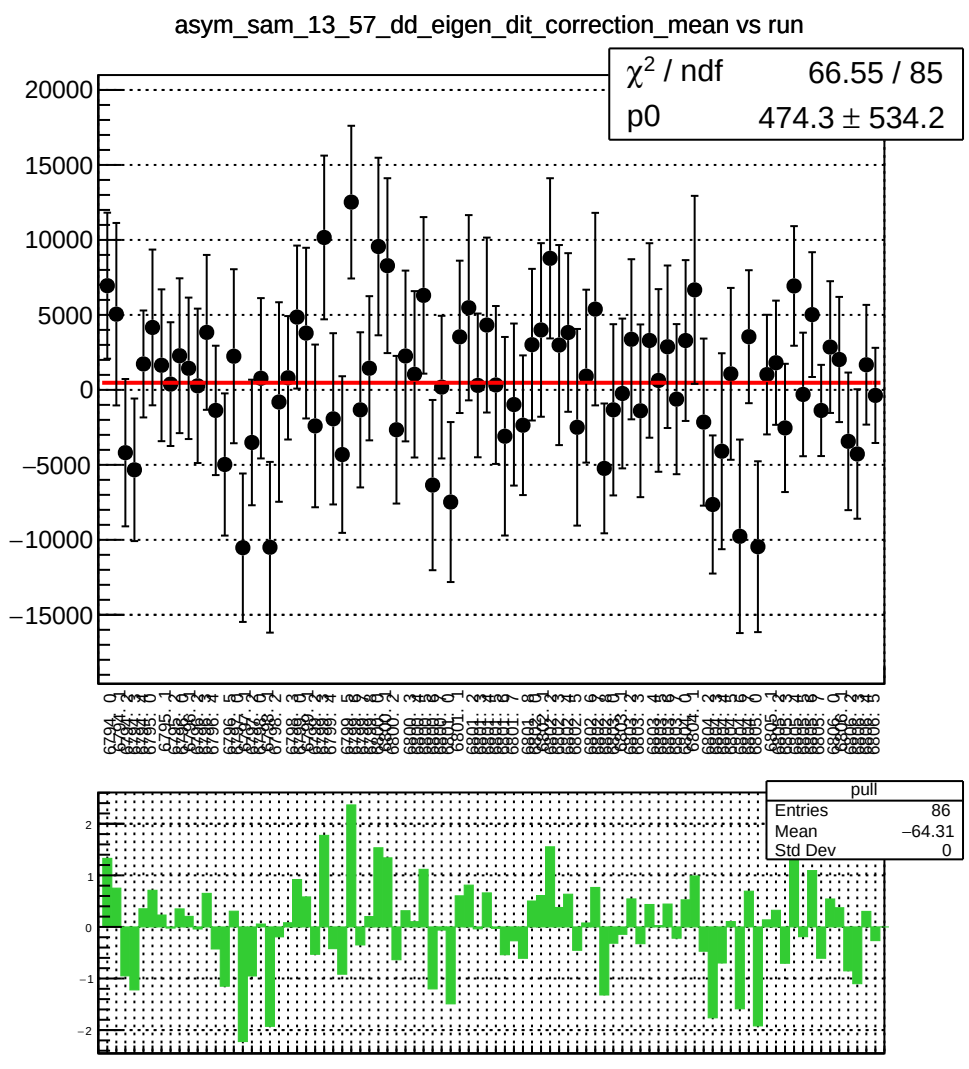

pull1D
Entries 86
Mean 0.01022
Std Dev 0.8797
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

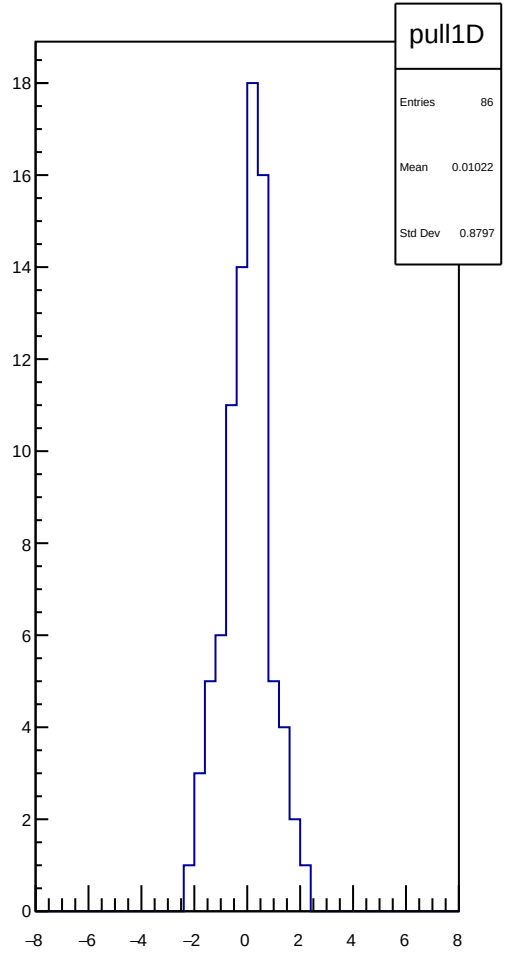

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3.08e+04 / 85
p0 485.4 ± 0.3777
650
600
550
500
450
400
350

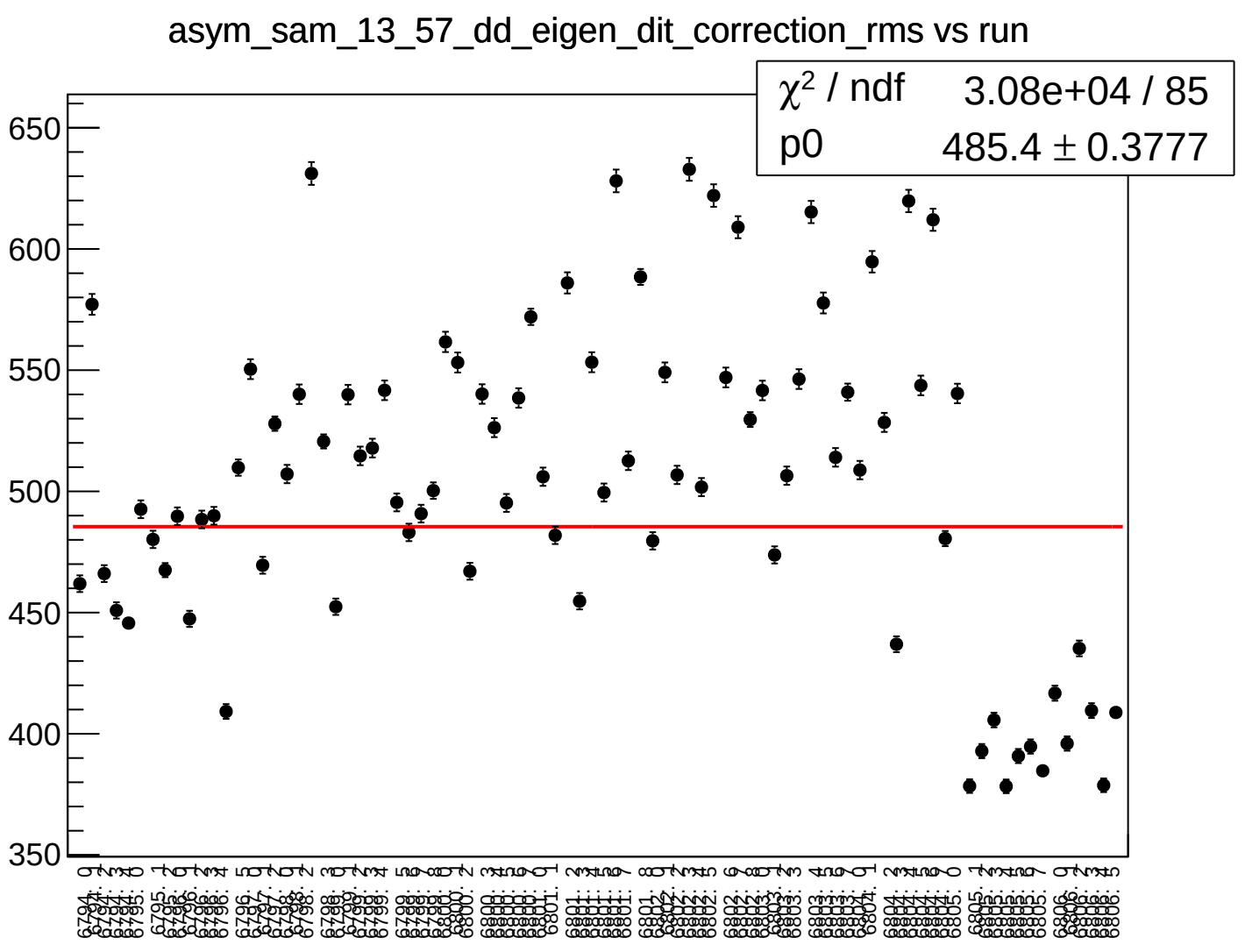

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 109.1 / 85
p0 143.8 ± 83.28
pull
Entries 86
Mean 418.1
Std Dev 0

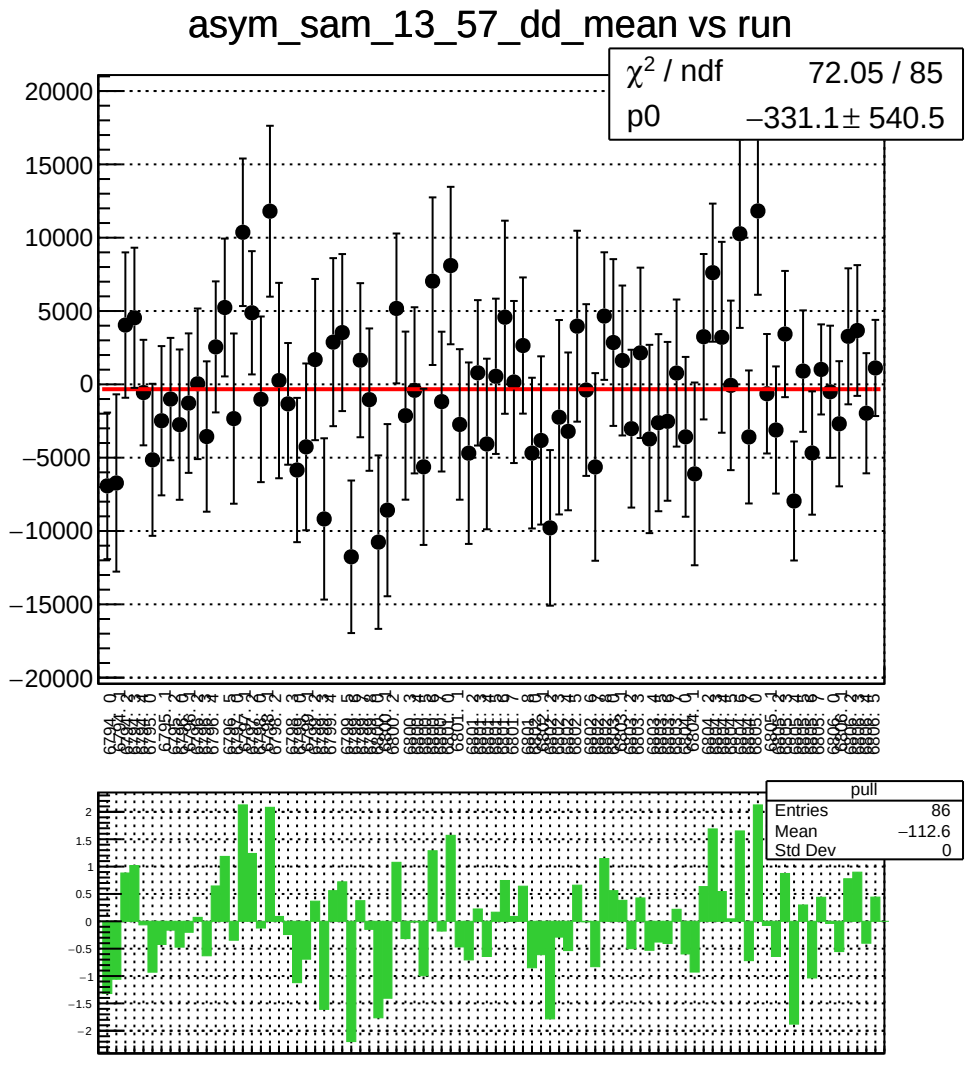

pull1D
Entries 86
Mean 0.007433
Std Dev 1.126

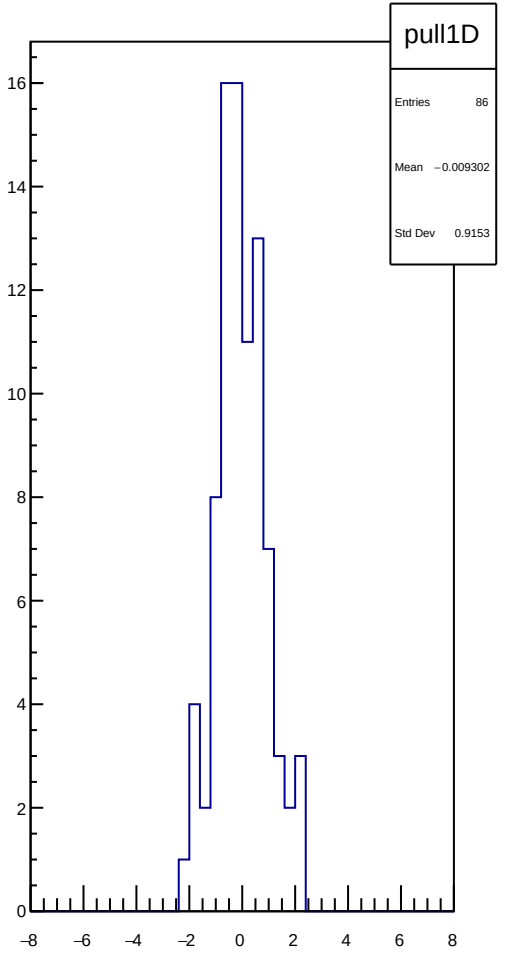

eigen_dit_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 9005 / 85
p0 76.18 ± 0.05889
130
120
110
100
90
80
70
60

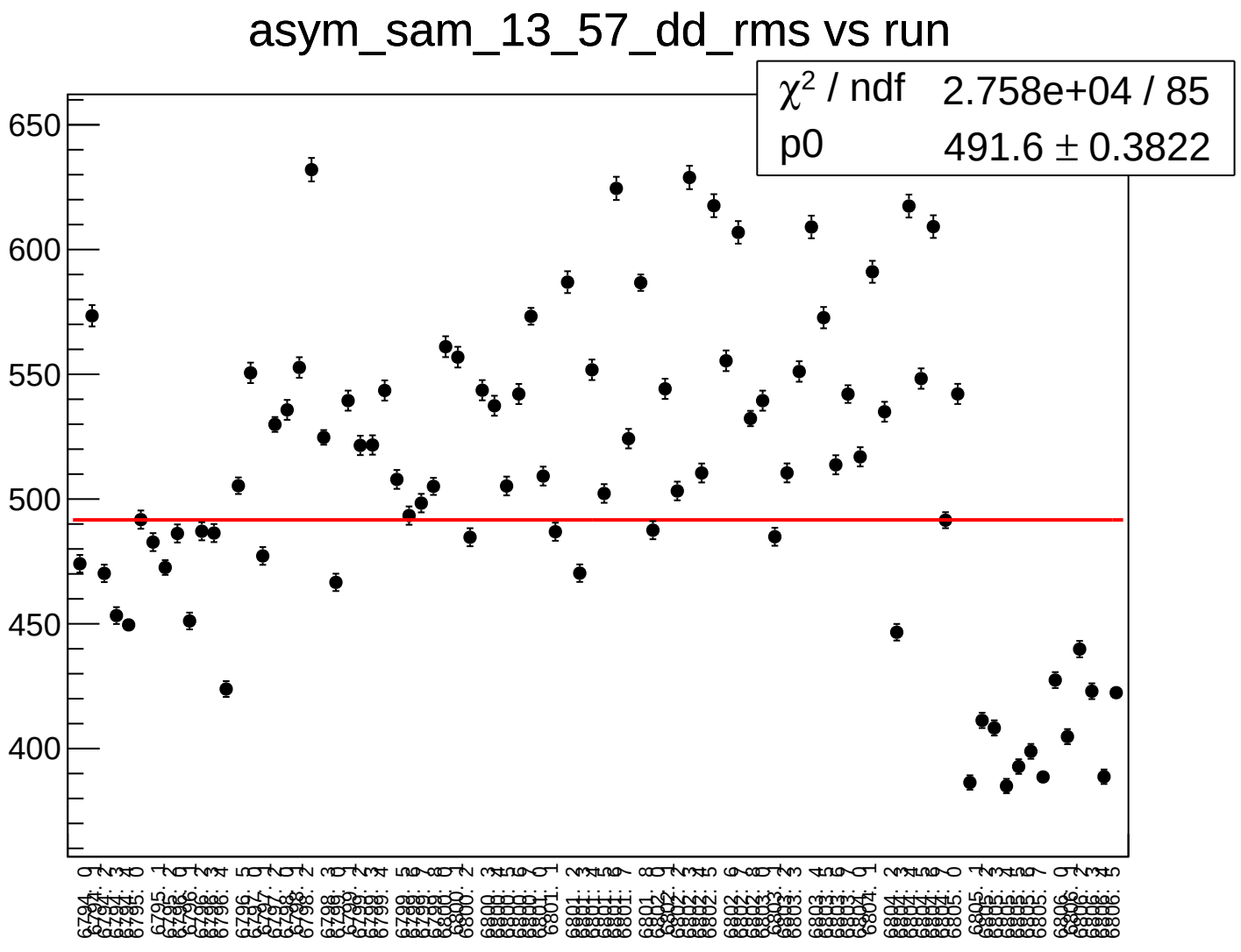

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.55 / 85
p0 474.3 ± 534.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −64.31
Std Dev 0
2
1
0
−1
−2

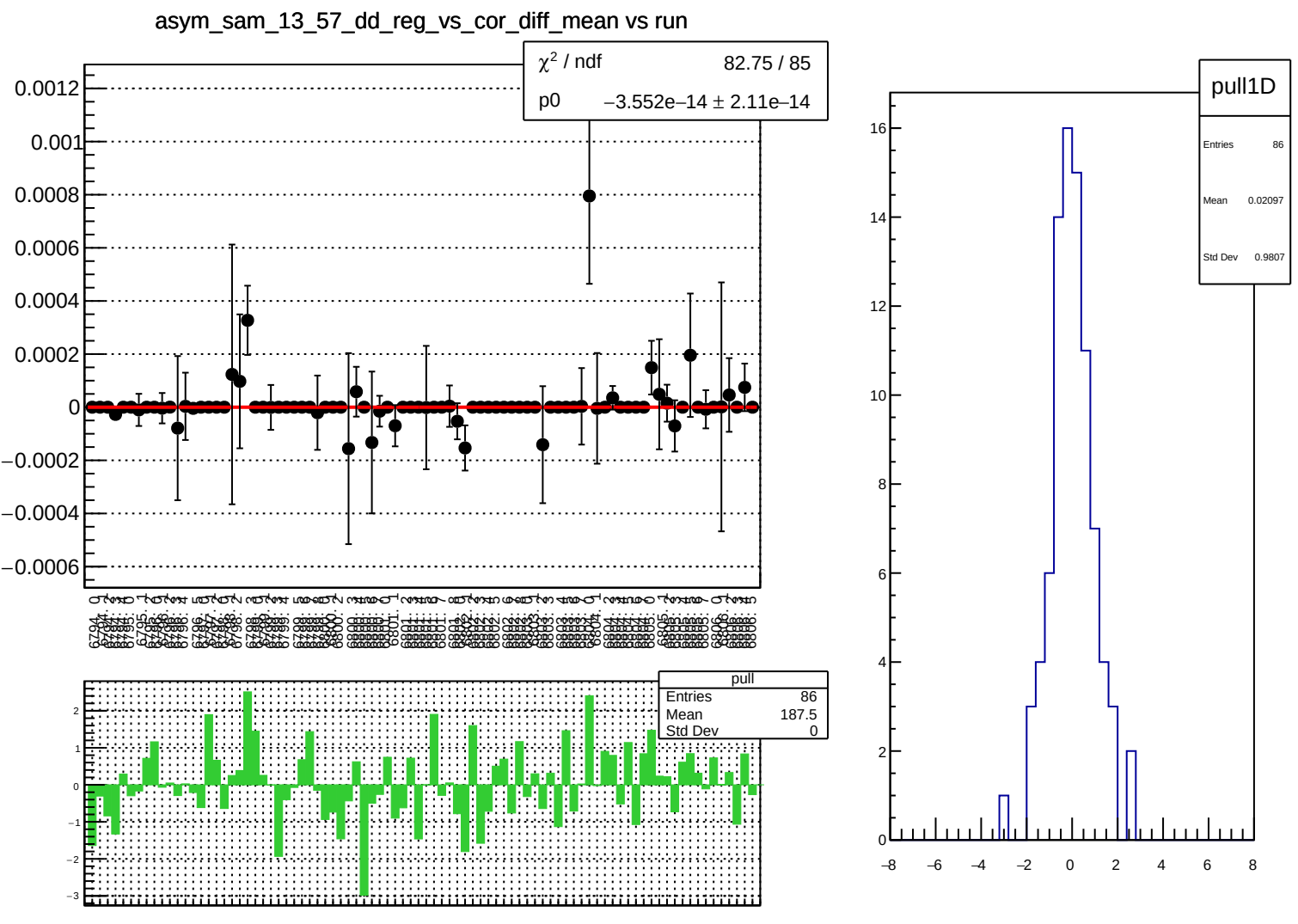

pull1D
Entries 86
Mean 0.01022
Std Dev 0.8797
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

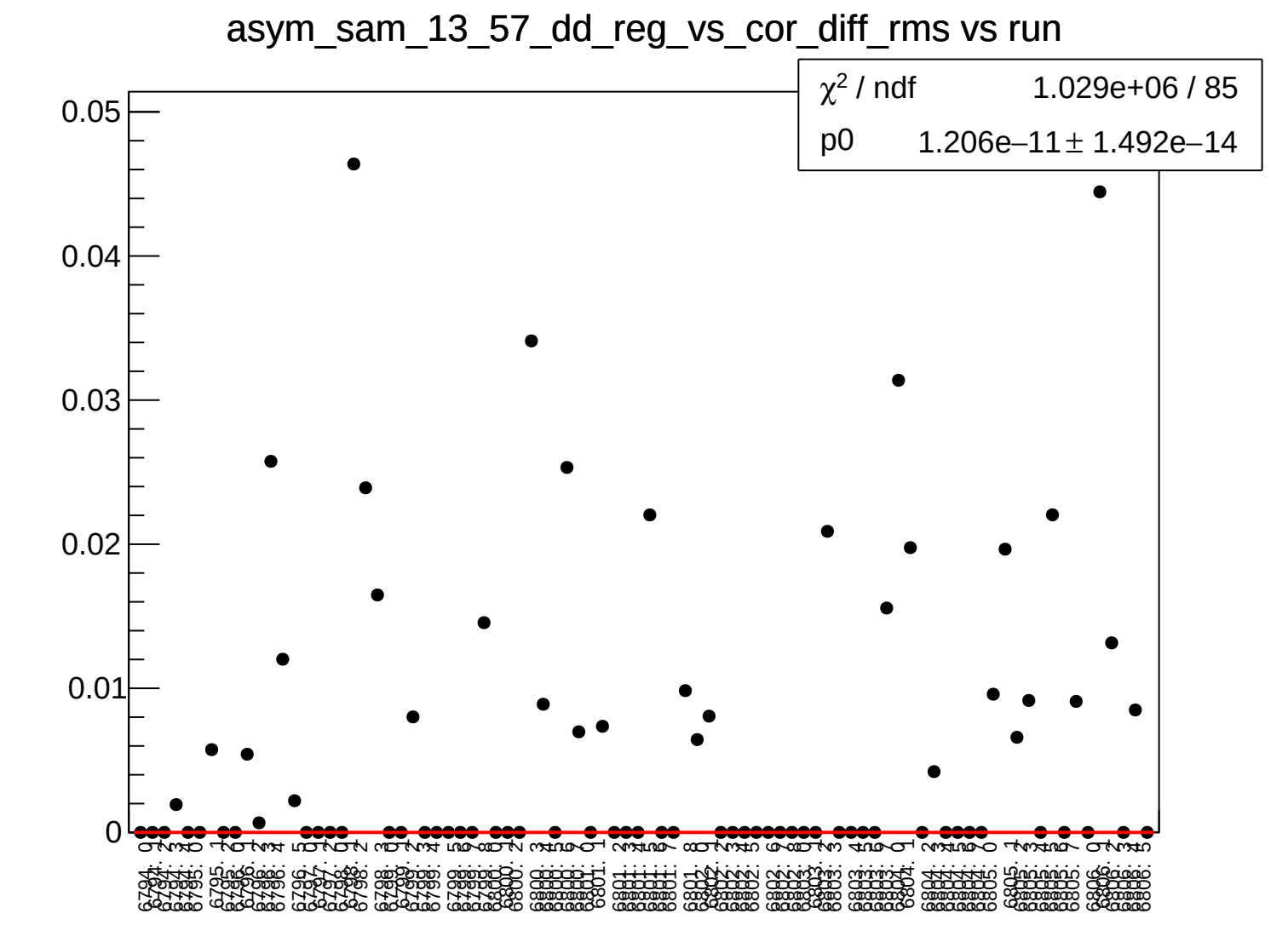

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.08e+04 / 85
p0 485.4 ± 0.3777
650
600
550
500
450
400
350

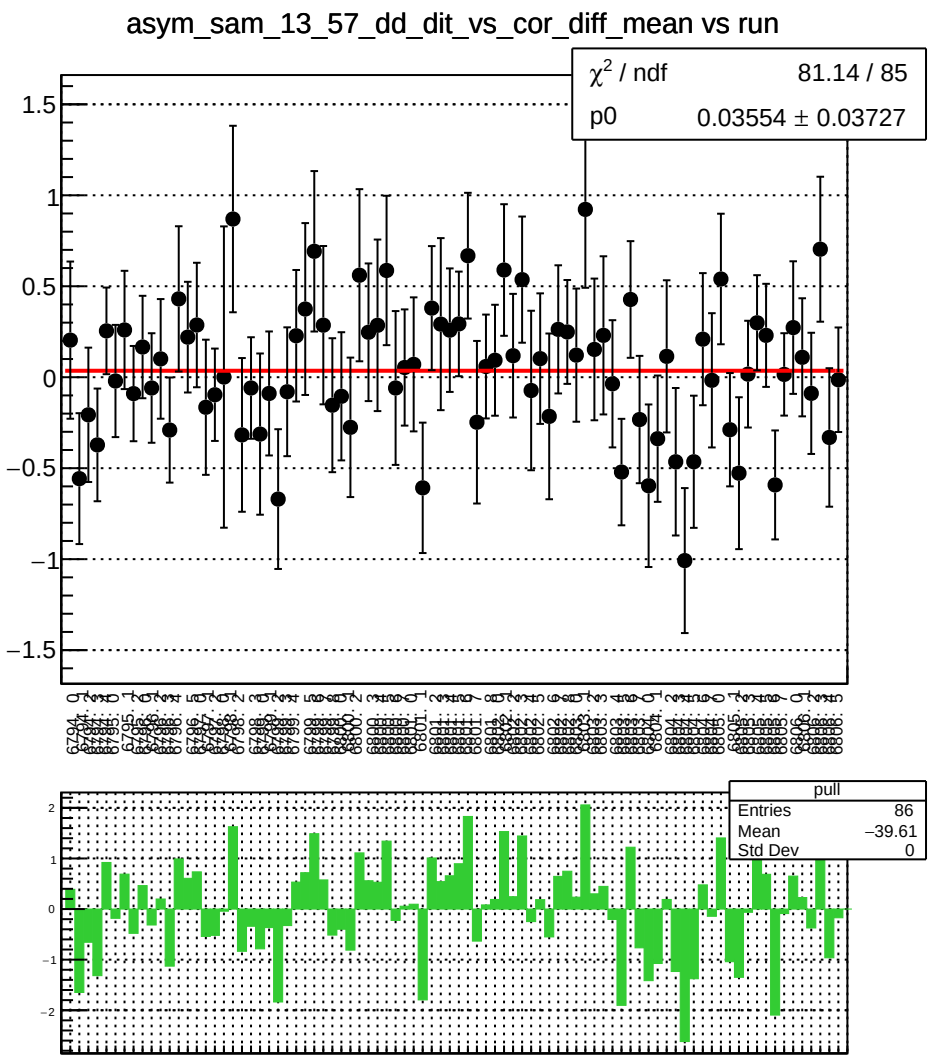

asym_sam_13_57_dd_mean vs run
χ² / ndf 72.05 / 85
p0 −331.1 ± 540.5
pull
Entries 86
Mean −112.6
Std Dev 0

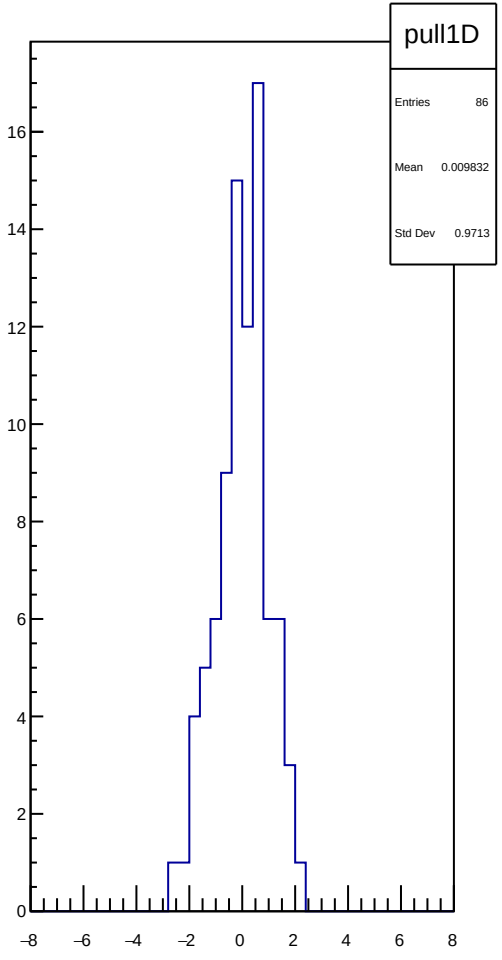

pull1D
Entries 86
Mean −0.009302
Std Dev 0.9153

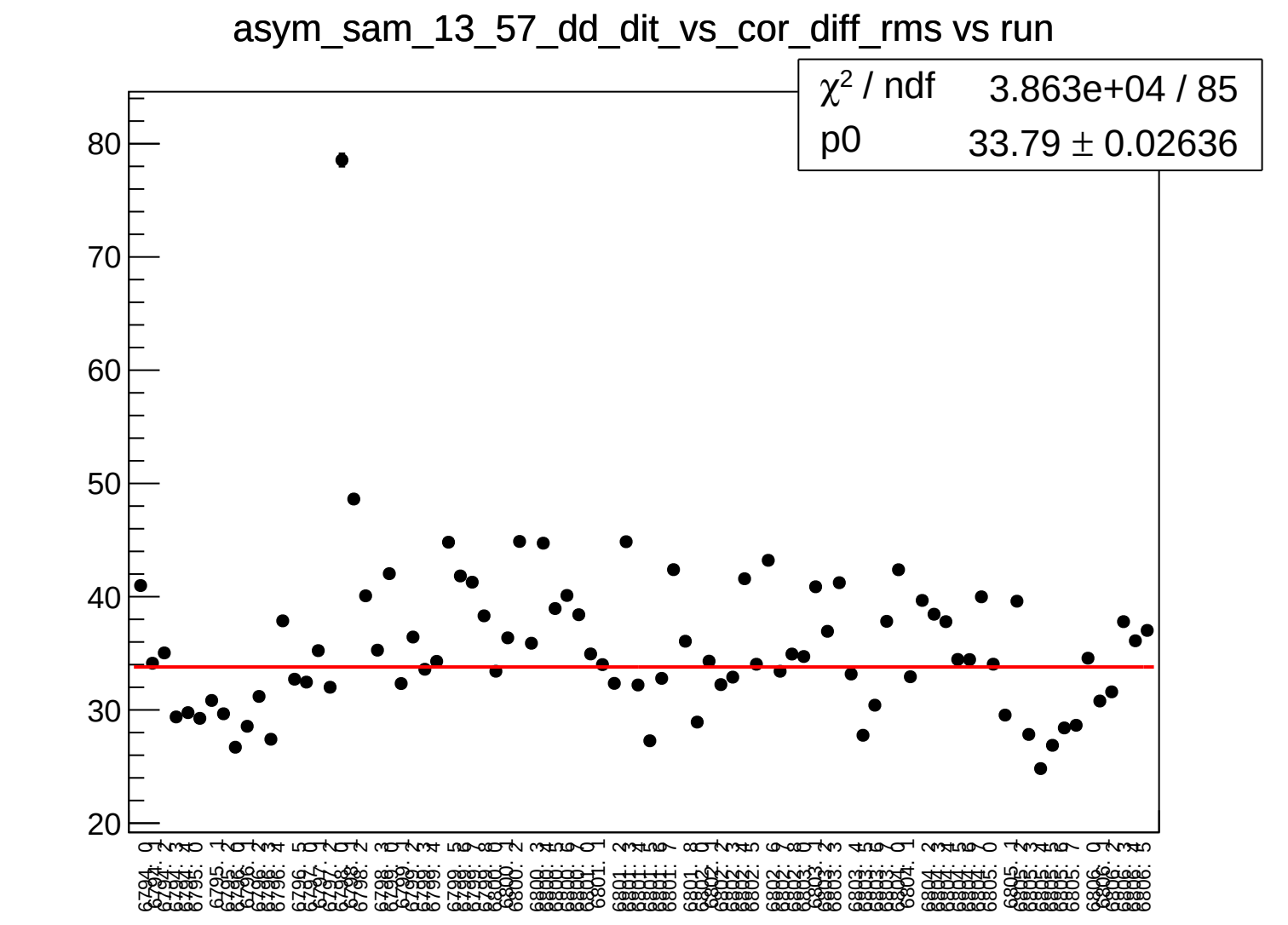

asym_sam_13_57_dd_rms vs run
χ² / ndf 2.758e+04 / 85
p0 491.6 ± 0.3822
650
600
550
500
450
400

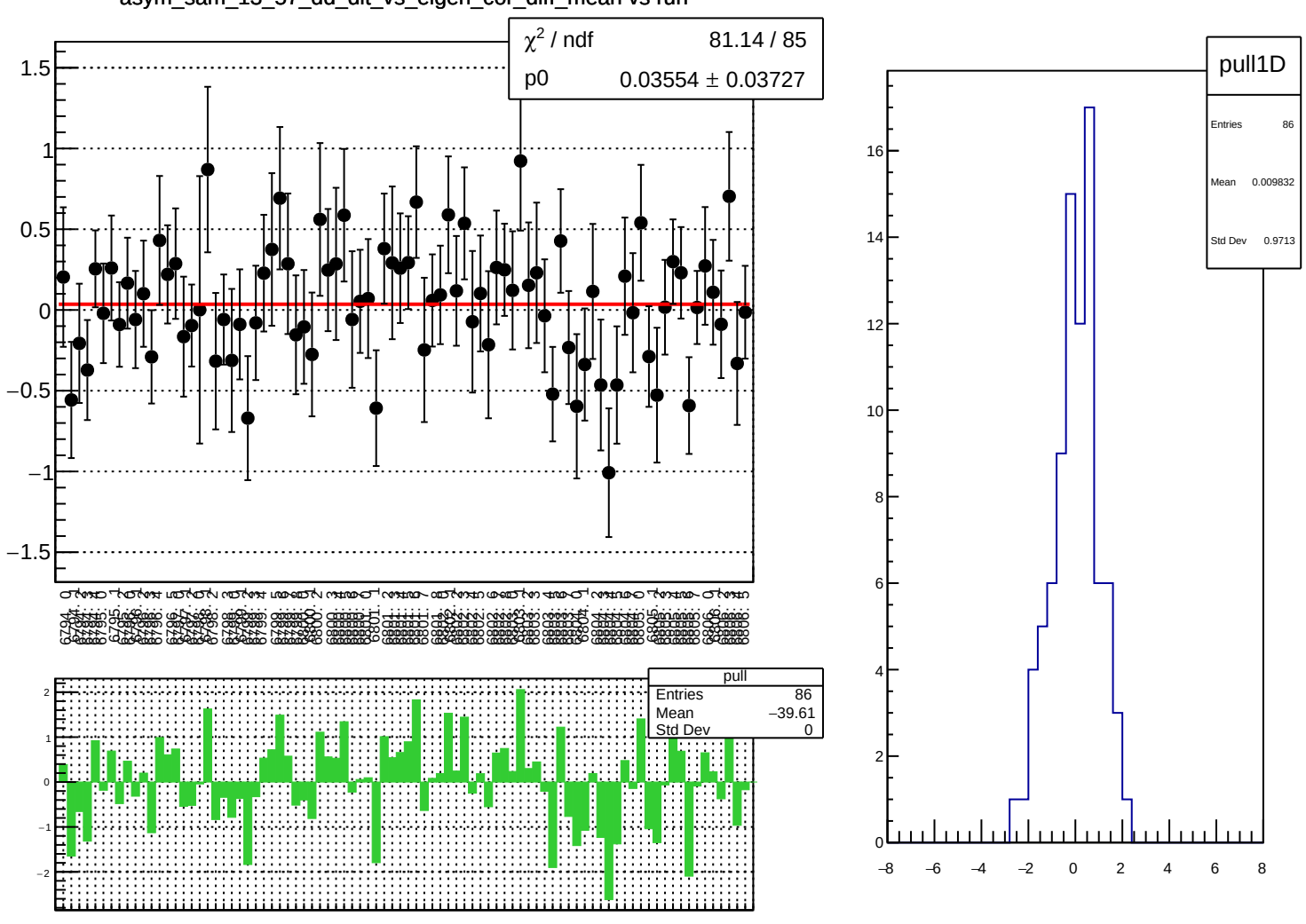

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.75 / 85
p0 −3.552e−14 ± 2.11e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 86
Mean 187.5
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02097
Std Dev 0.9807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

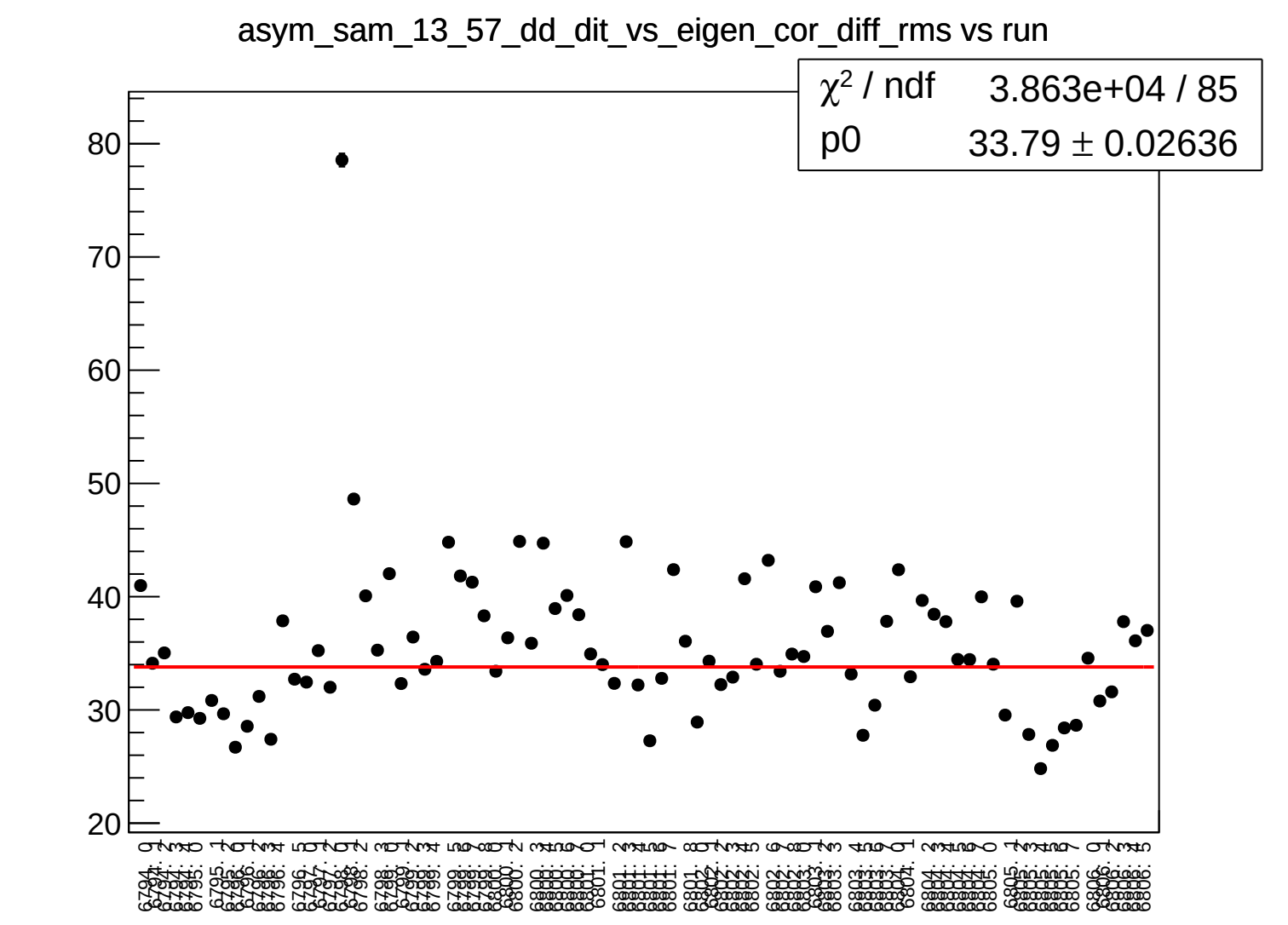

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 85
p0 1.206e−11 ± 1.492e−14
0.05
0.04
0.03
0.02
0.01
0

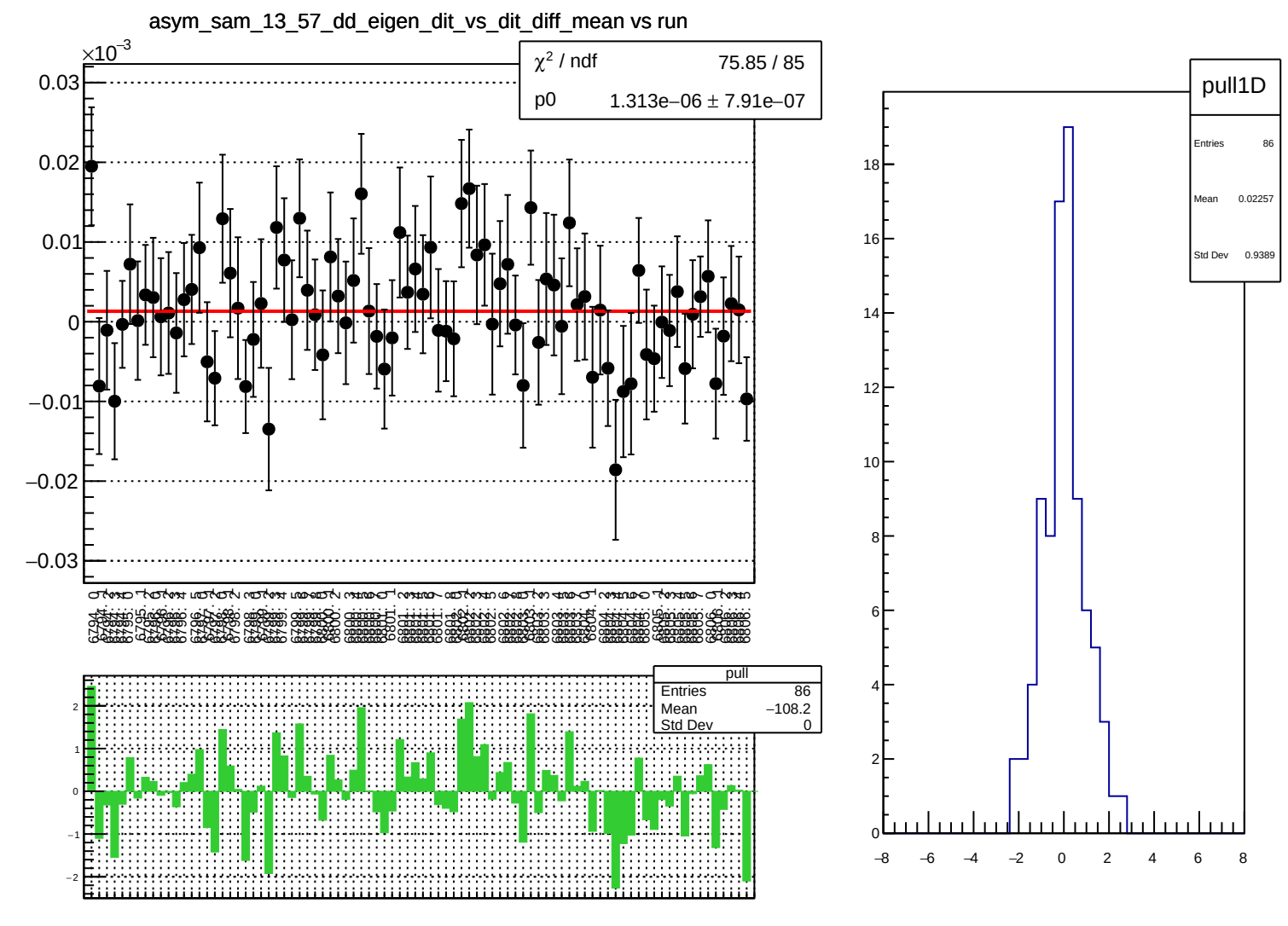

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.14 / 85
p0 0.03554 ± 0.03727
pull
Entries 86
Mean −39.61
Std Dev 0

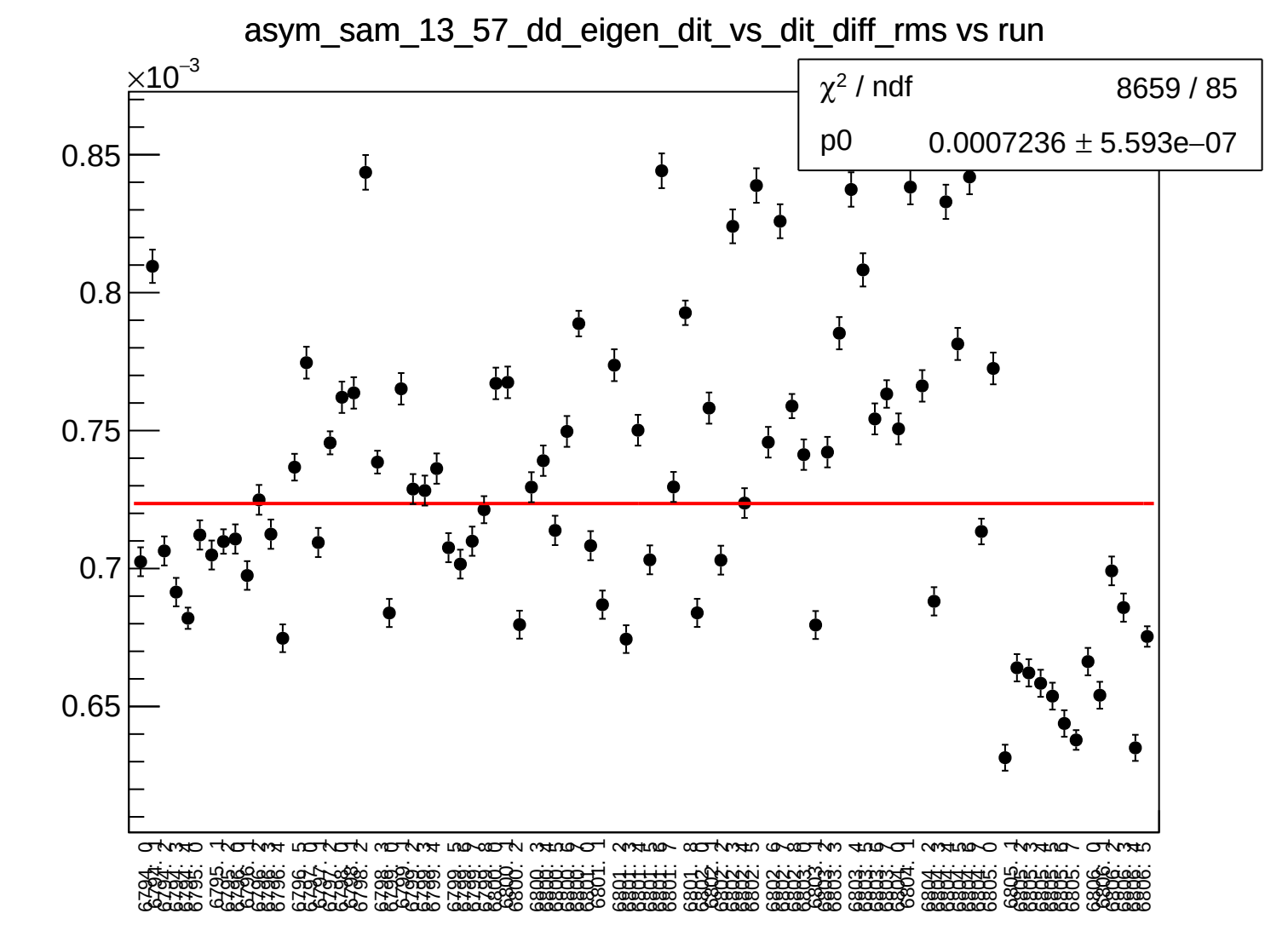

pull1D
Entries 86
Mean 0.009832
Std Dev 0.9713

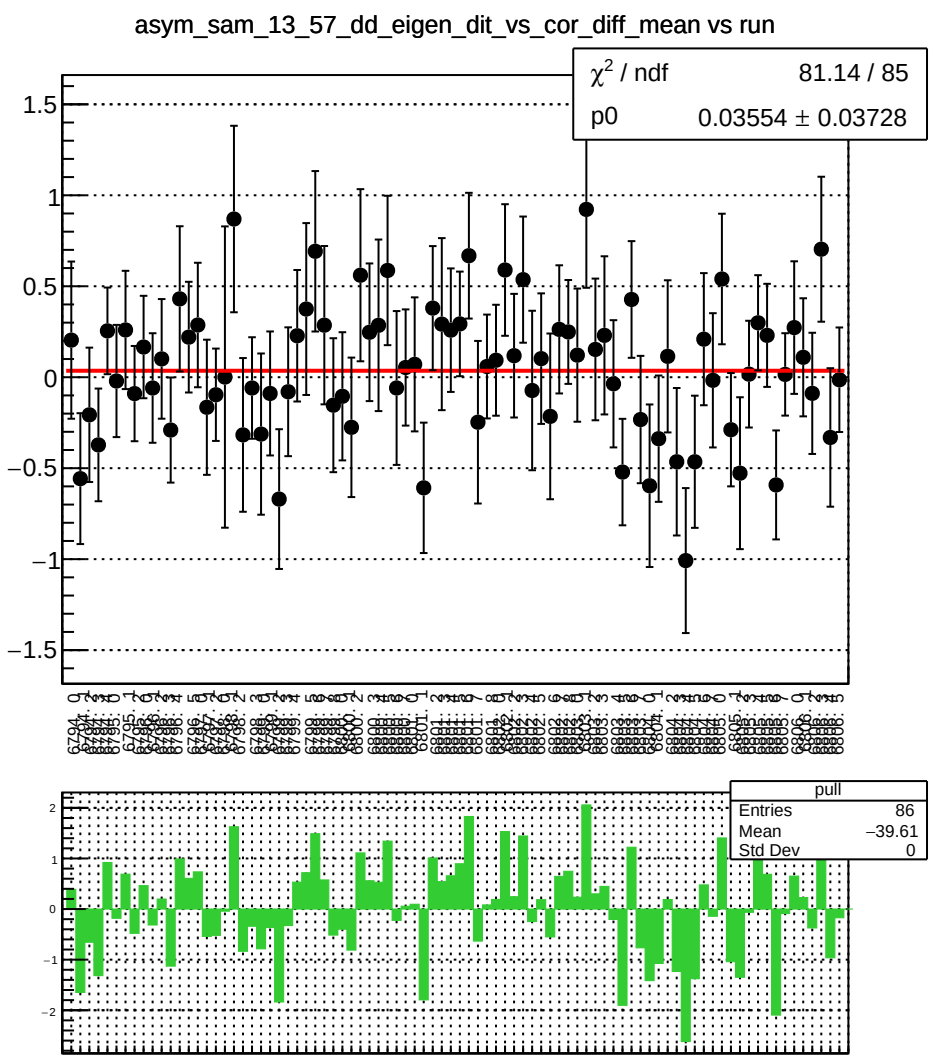

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.863e+04 / 85
p0 33.79 ± 0.02636
80
70
60
50
40
30
20

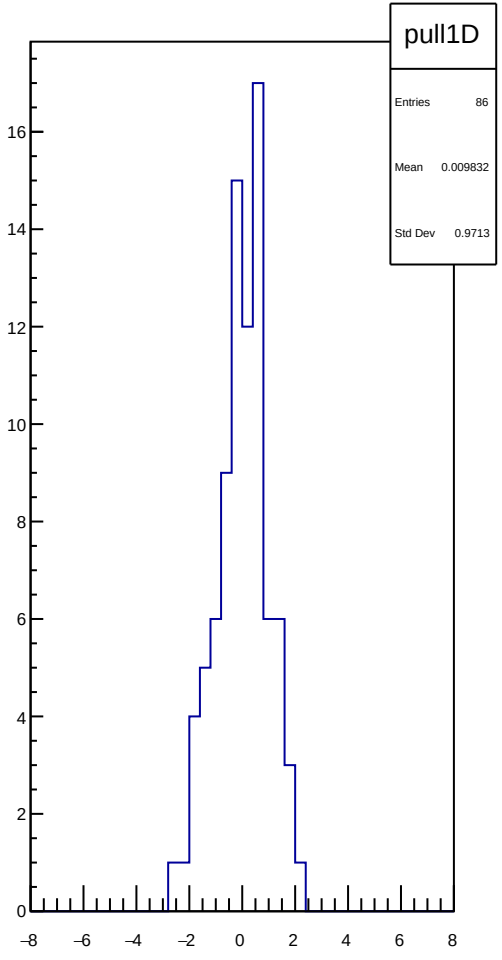

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.14 / 85
p0 0.03554 ± 0.03727
pull
Entries 86
Mean −39.61
Std Dev 0
pull1D
Entries 86
Mean 0.009832
Std Dev 0.9713

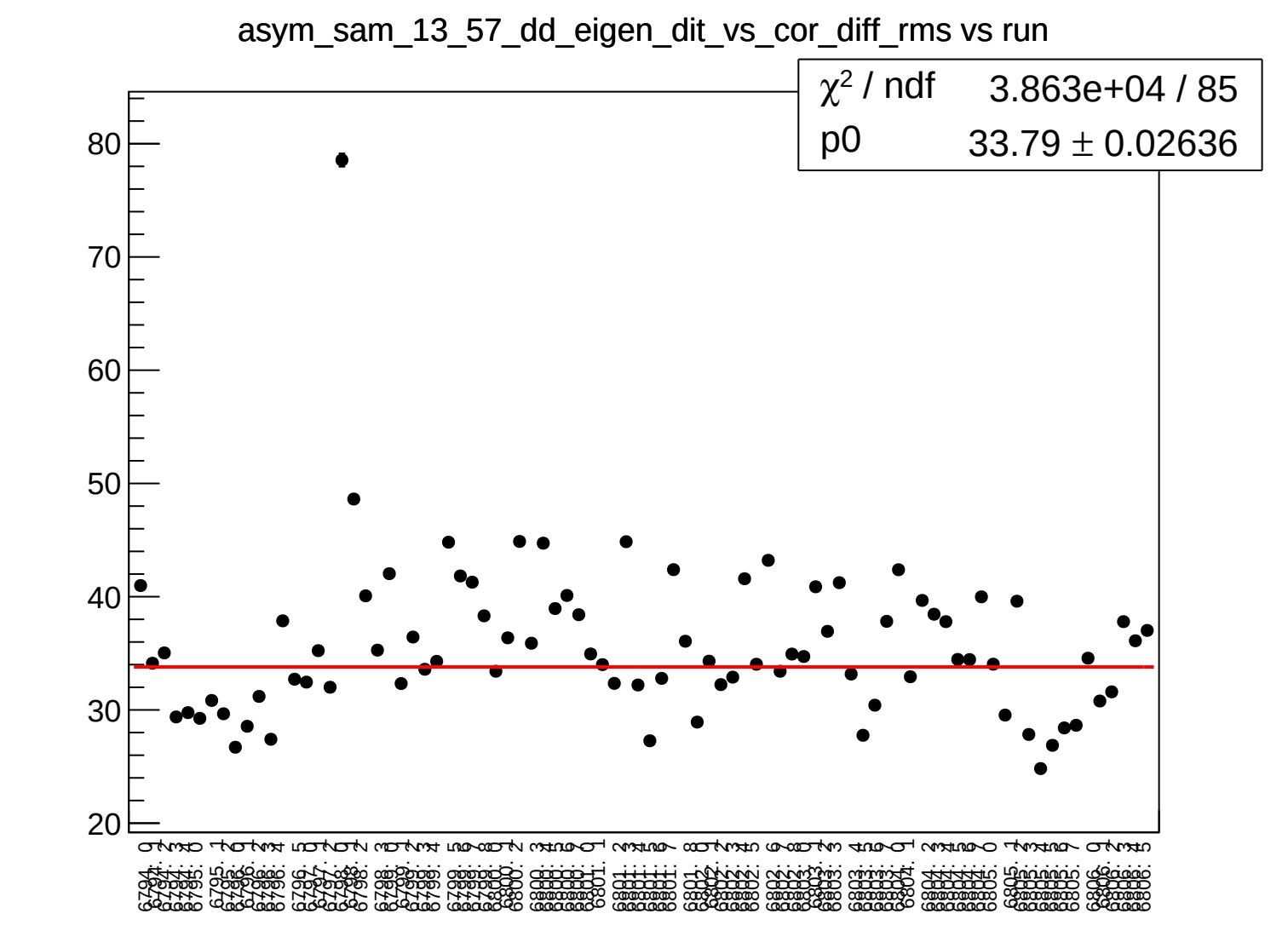

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.863e+04 / 85
p0 33.79 ± 0.02636
80
70
60
50
40
30
20

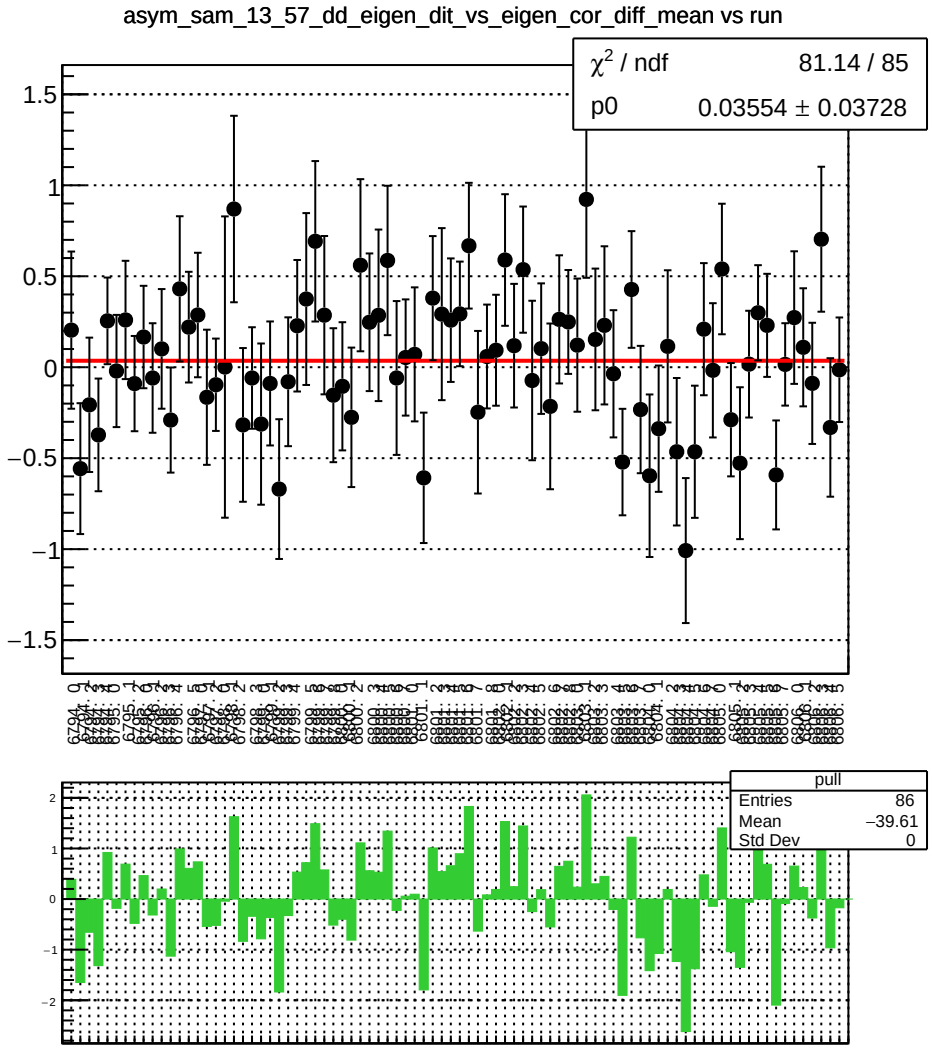

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 75.85 / 85
p0 1.313e−06 ± 7.91e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 86
Mean −108.2
Std Dev 0
pull1D
Entries 86
Mean 0.02257
Std Dev 0.9389

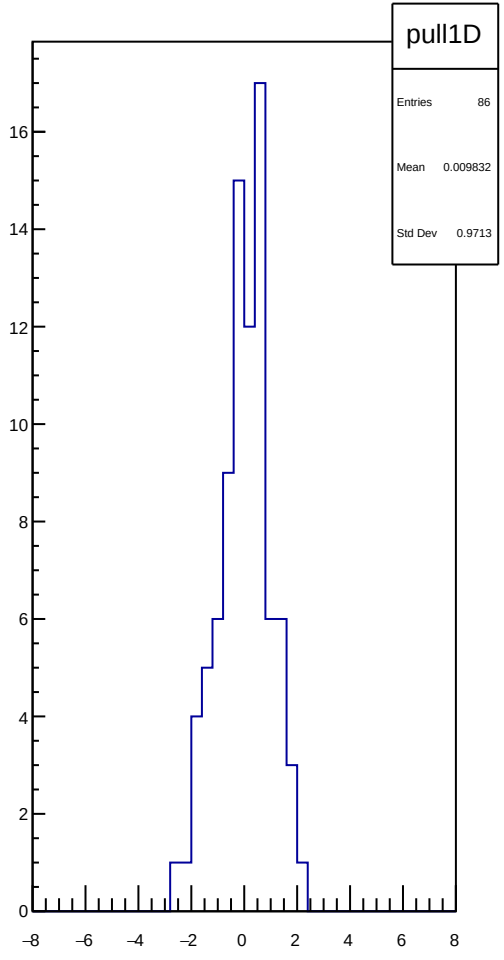

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 8659 / 85
p0 0.0007236 ± 5.593e−07
0.85
0.8
0.75
0.7
0.65

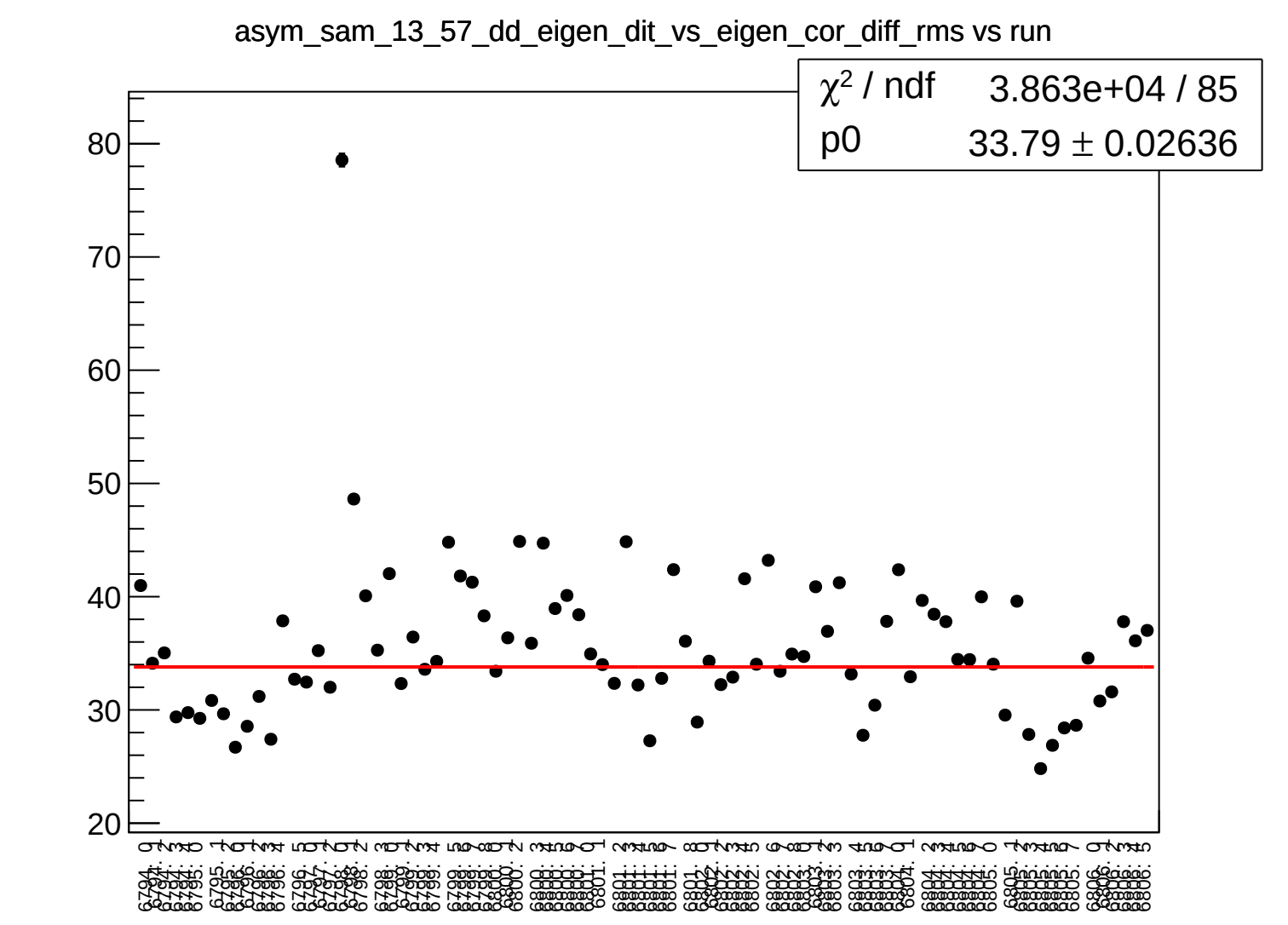

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.14 / 85
p0 0.03554 ± 0.03728
pull
Entries 86
Mean −39.61
Std Dev 0

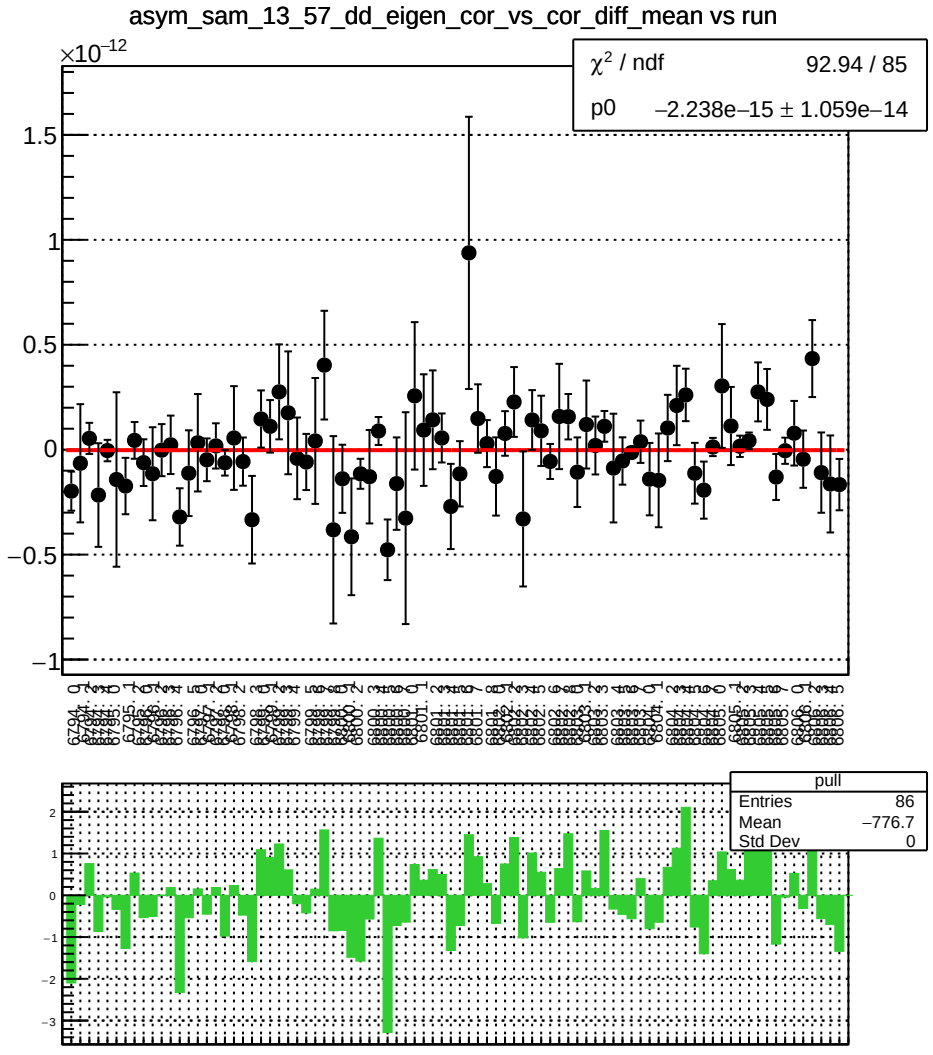

pull1D
Entries 86
Mean 0.009832
Std Dev 0.9713

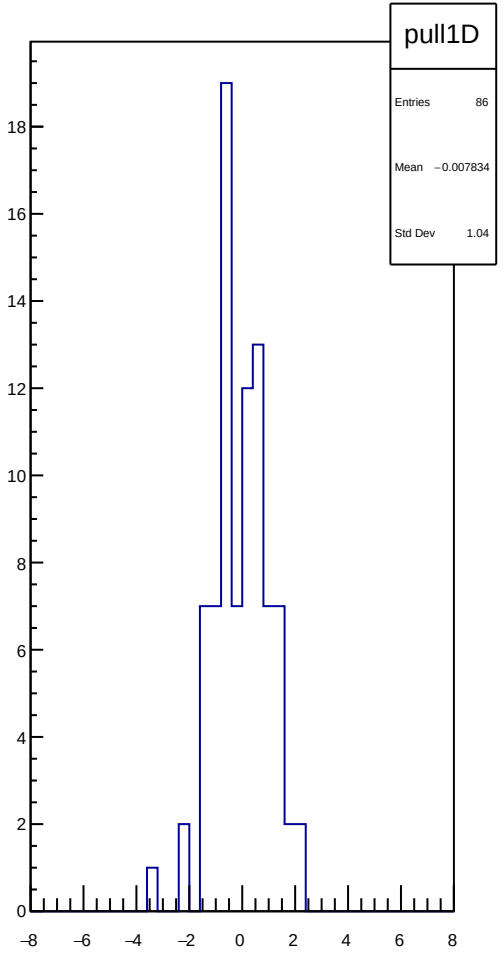

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.863e+04 / 85
p0 33.79 ± 0.02636
80
70
60
50
40
30
20

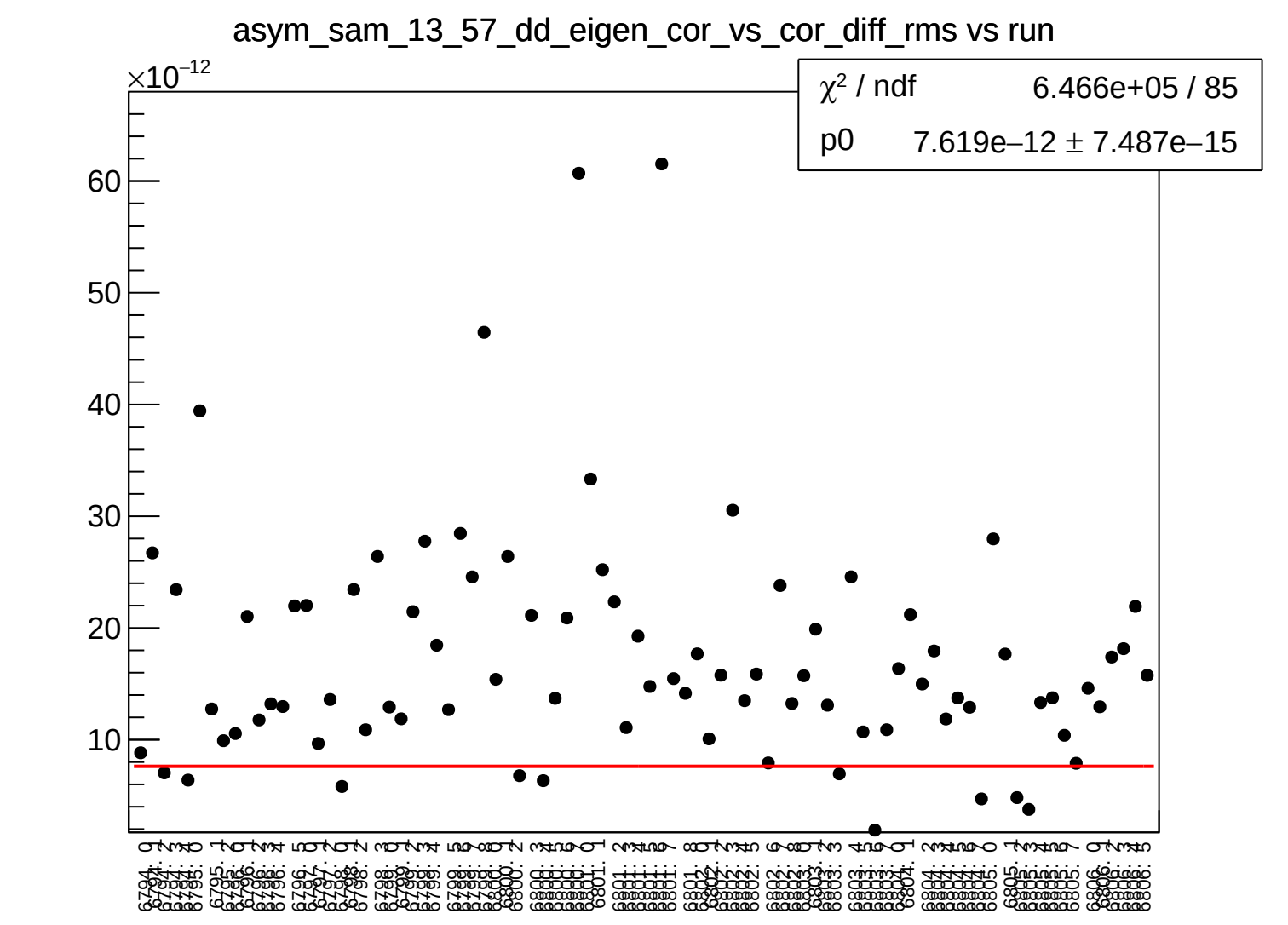

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.14 / 85
p0 0.03554 ± 0.03728
pull
Entries 86
Mean −39.61
Std Dev 0

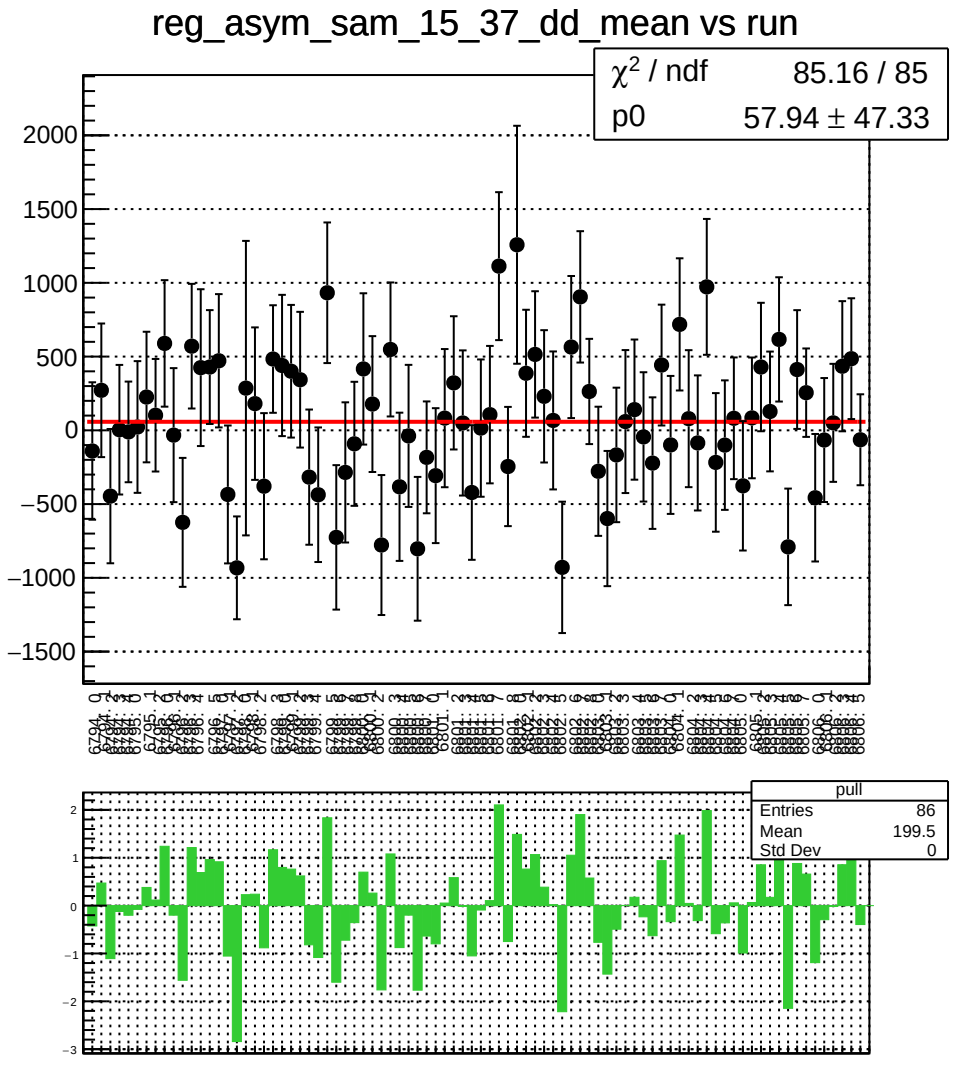

pull1D
Entries 86
Mean 0.009832
Std Dev 0.9713

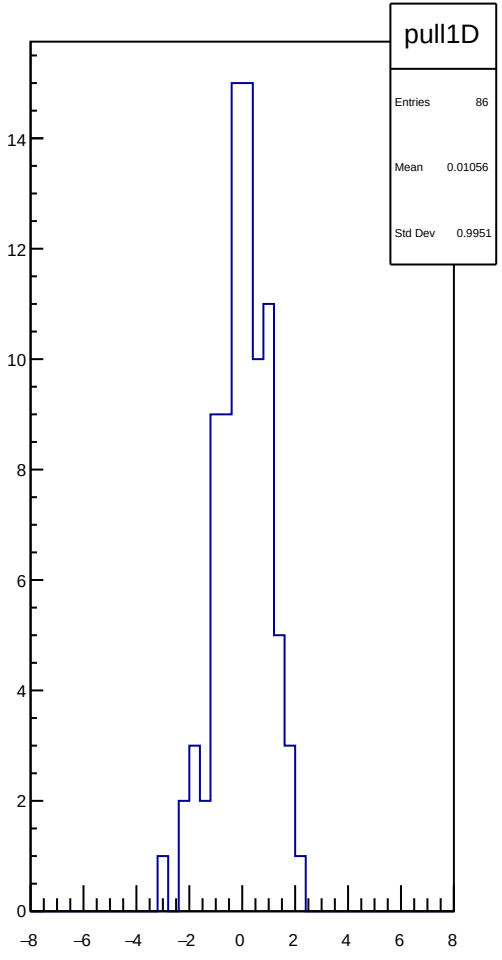

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.863e+04 / 85
p0 33.79 ± 0.02636
80
70
60
50
40
30
20

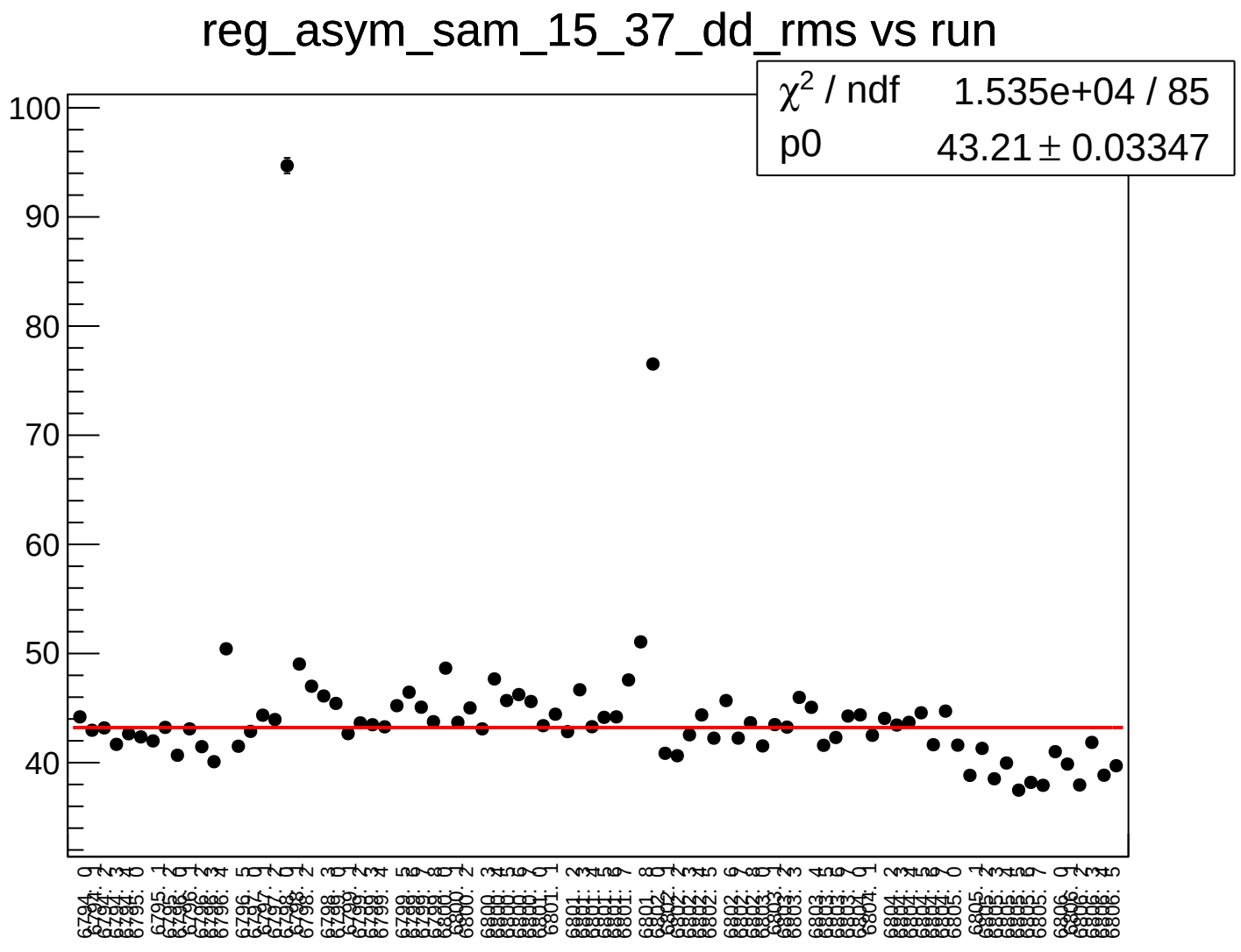

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.94 / 85
p0 −2.238e−15 ± 1.059e−14
pull
Entries 86
Mean −776.7
Std Dev 0

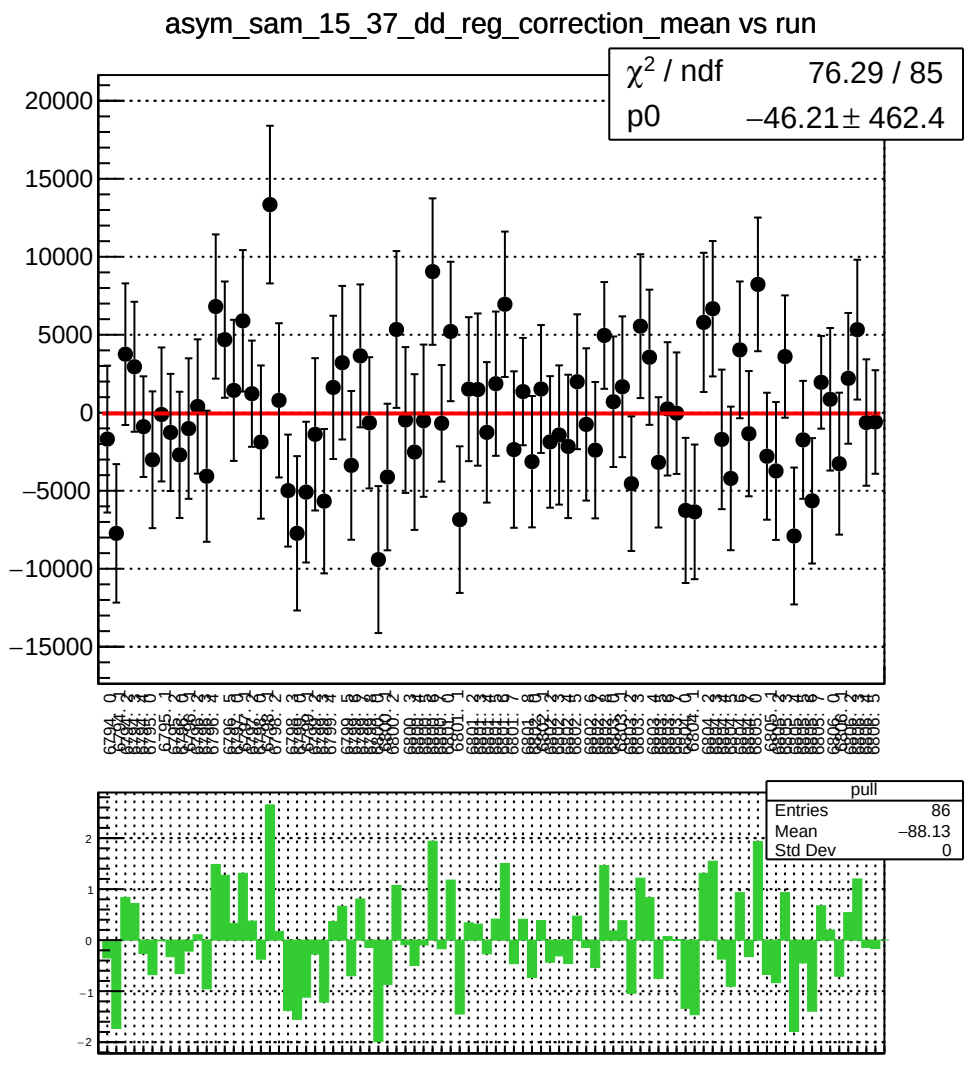

pull1D
Entries 86
Mean −0.007834
Std Dev 1.04

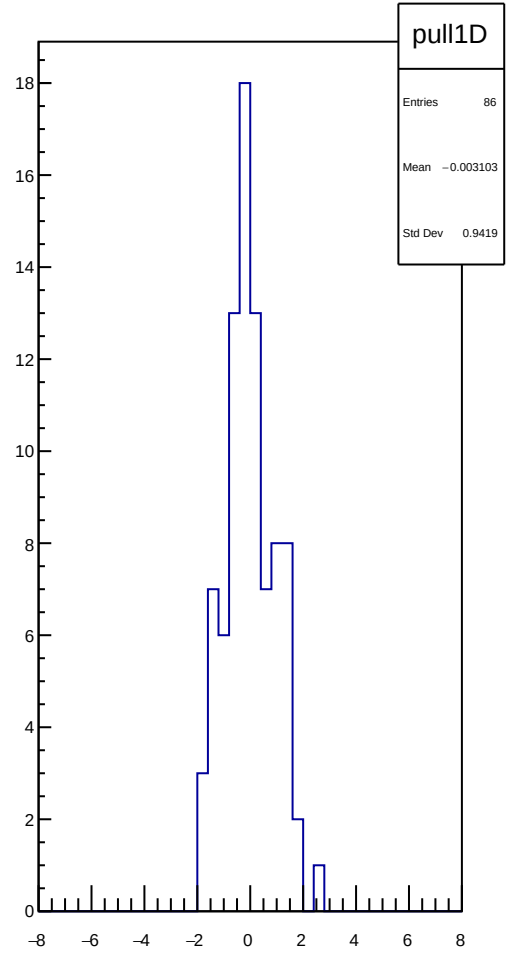

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.466e+05 / 85
p0 7.619e−12 ± 7.487e−15
60
50
40
30
20
10

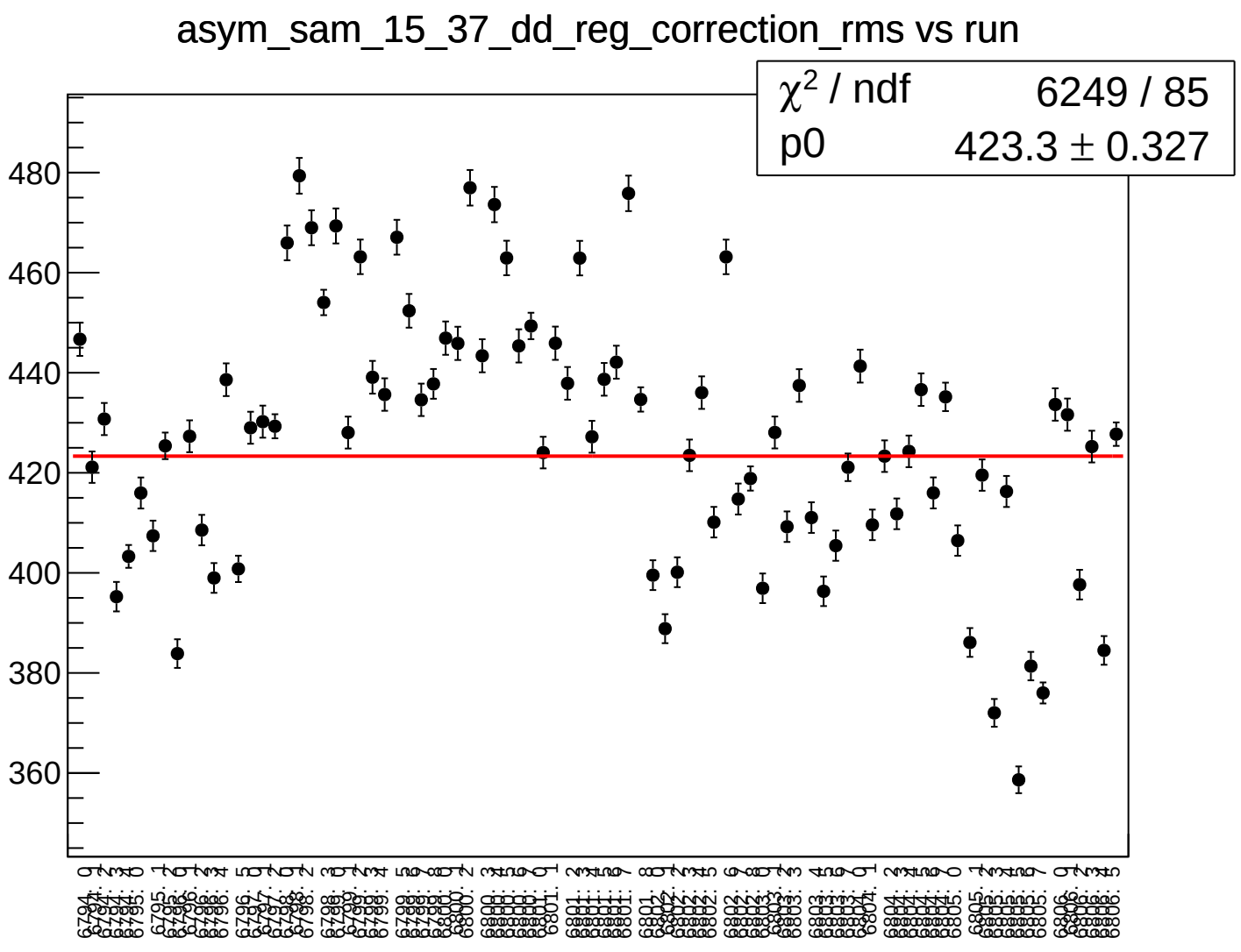

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.16 / 85
p0 57.94 ± 47.33
pull
Entries 86
Mean 199.5
Std Dev 0

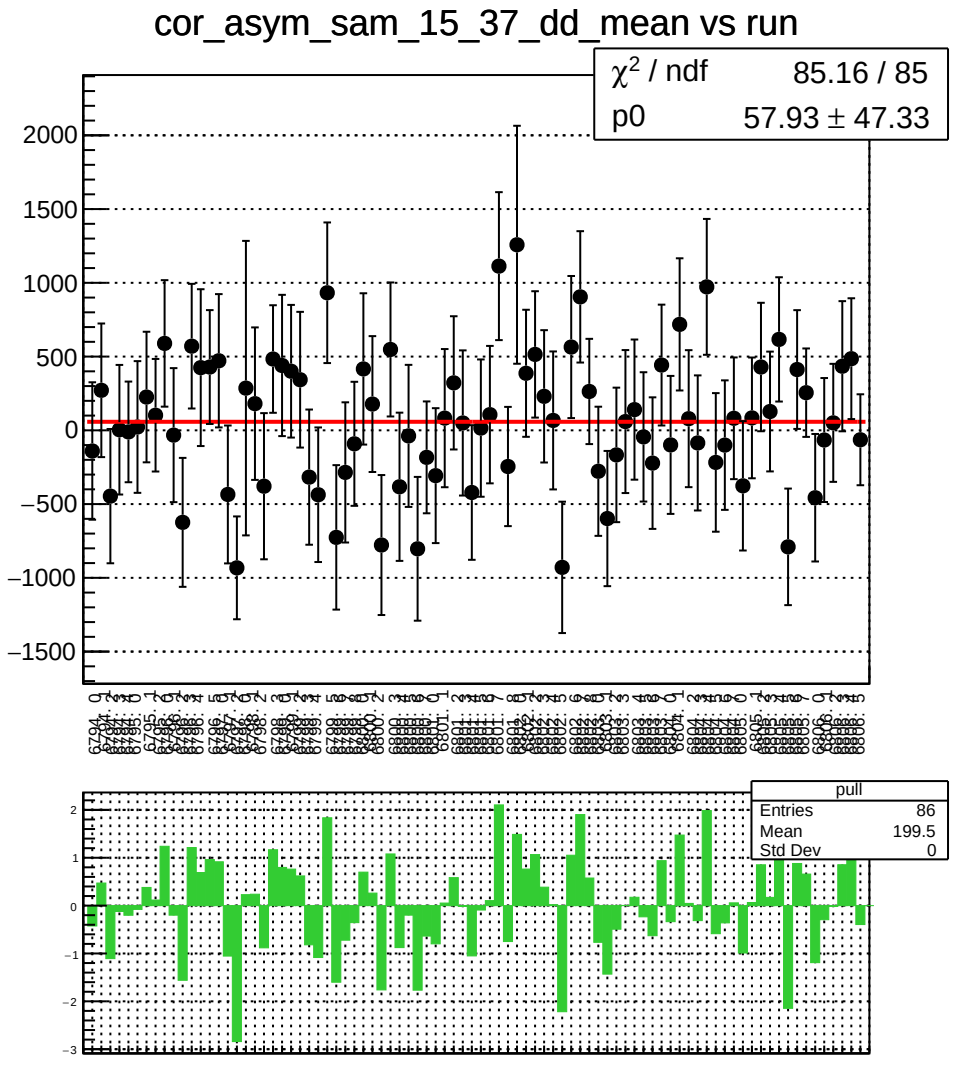

pull1D
Entries 86
Mean 0.01056
Std Dev 0.9951

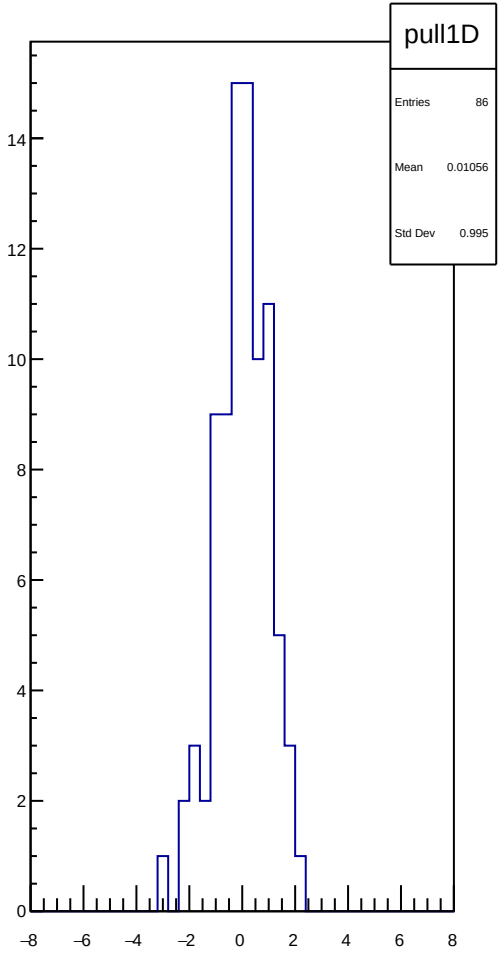

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 43.21 ± 0.03347
100
90
80
70
60
50
40

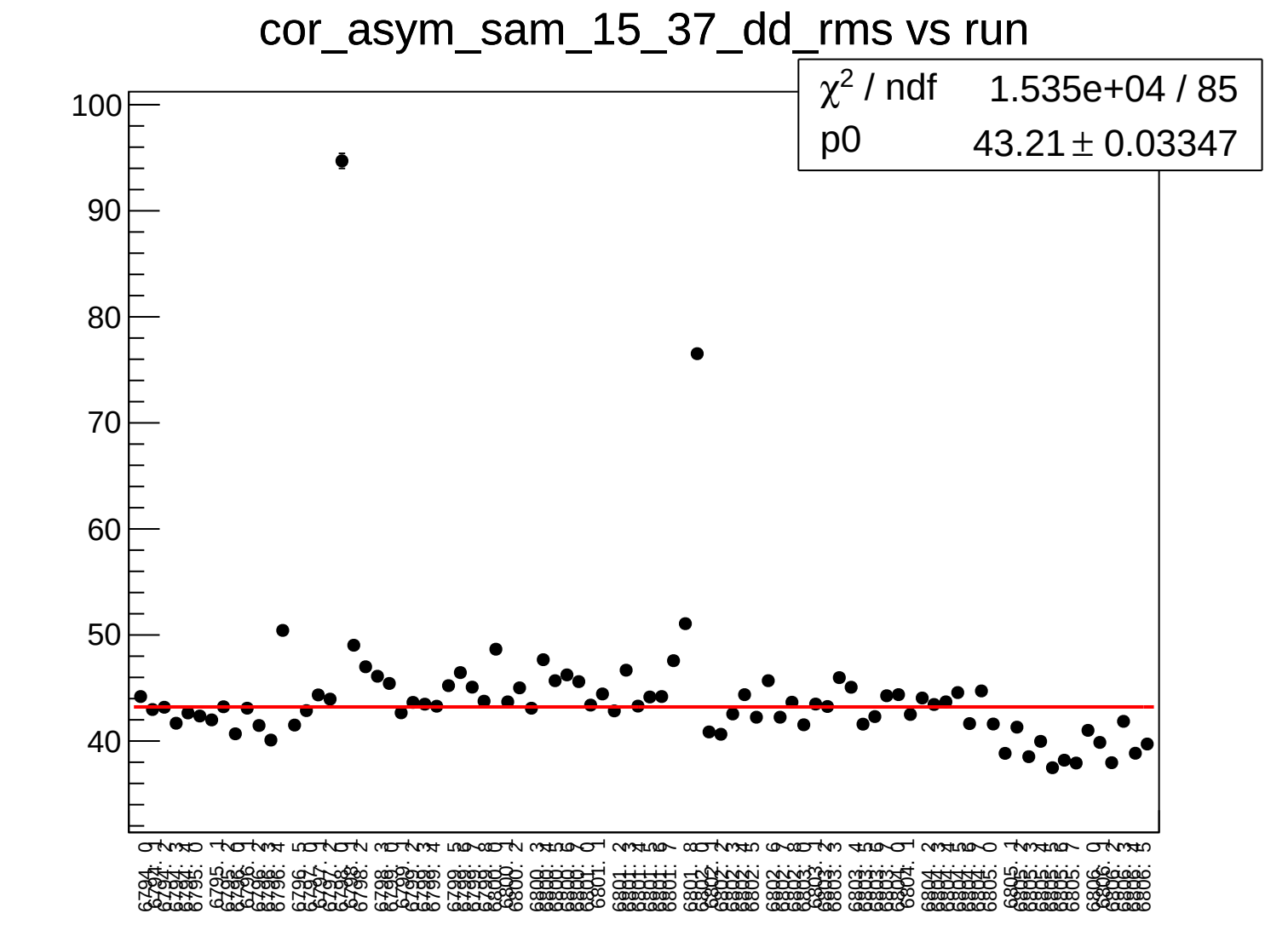

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 76.29 / 85
p0 −46.21 ± 462.4
pull
Entries 86
Mean −88.13
Std Dev 0

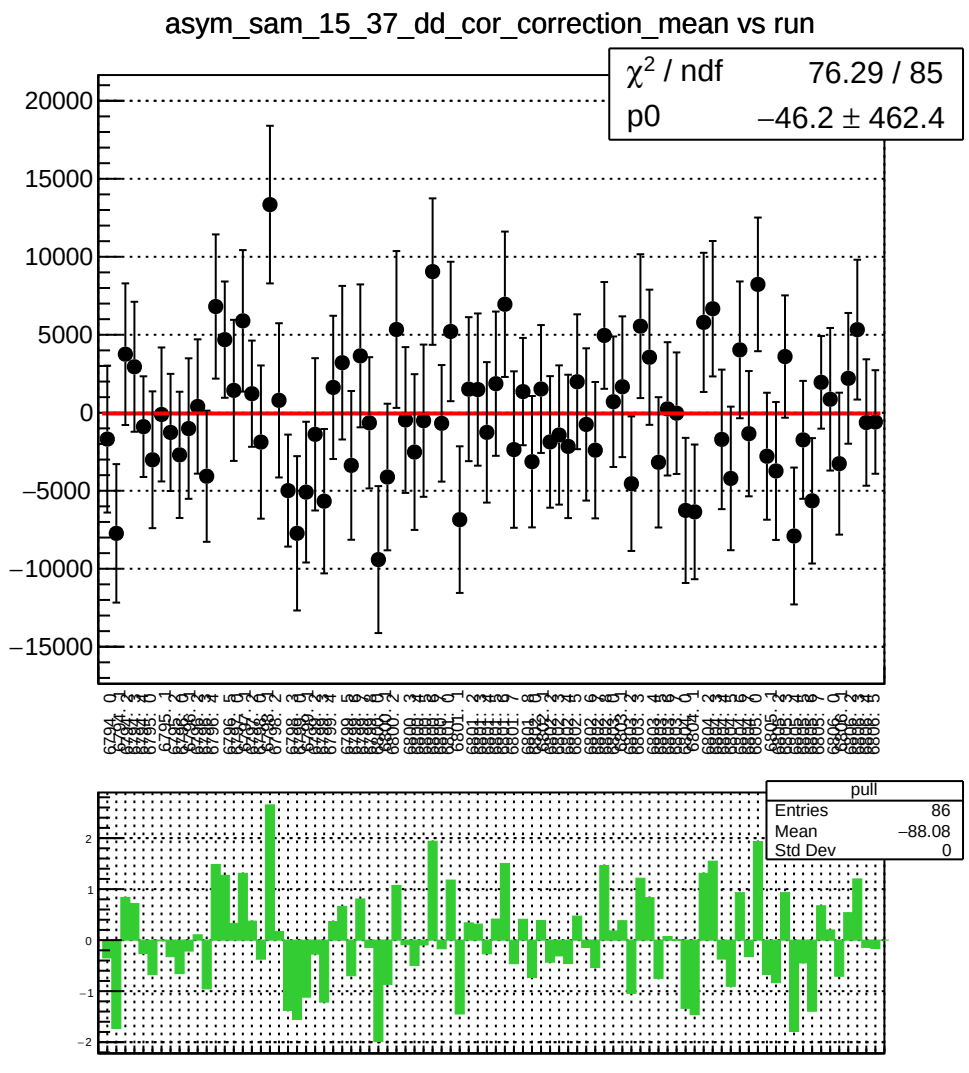

pull1D
Entries 86
Mean −0.003103
Std Dev 0.9419

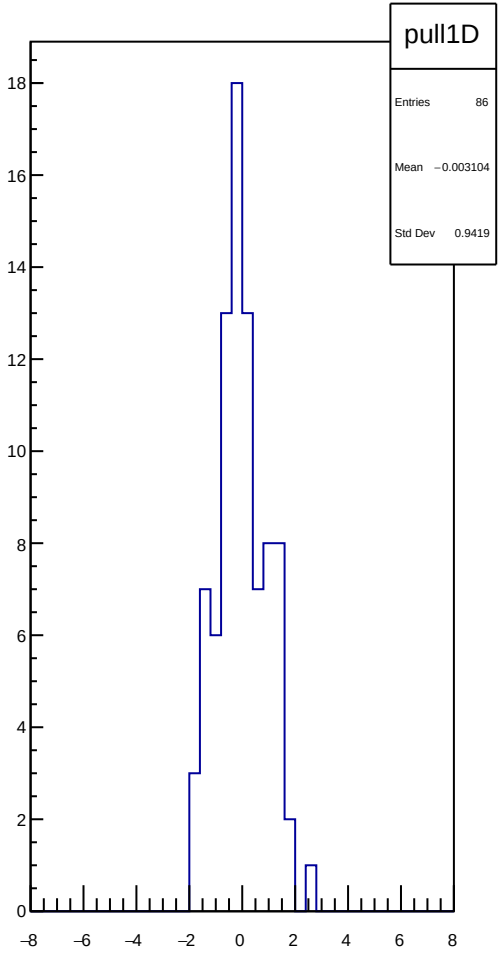

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 6249 / 85
p0 423.3 ± 0.327
480
460
440
420
400
380
360

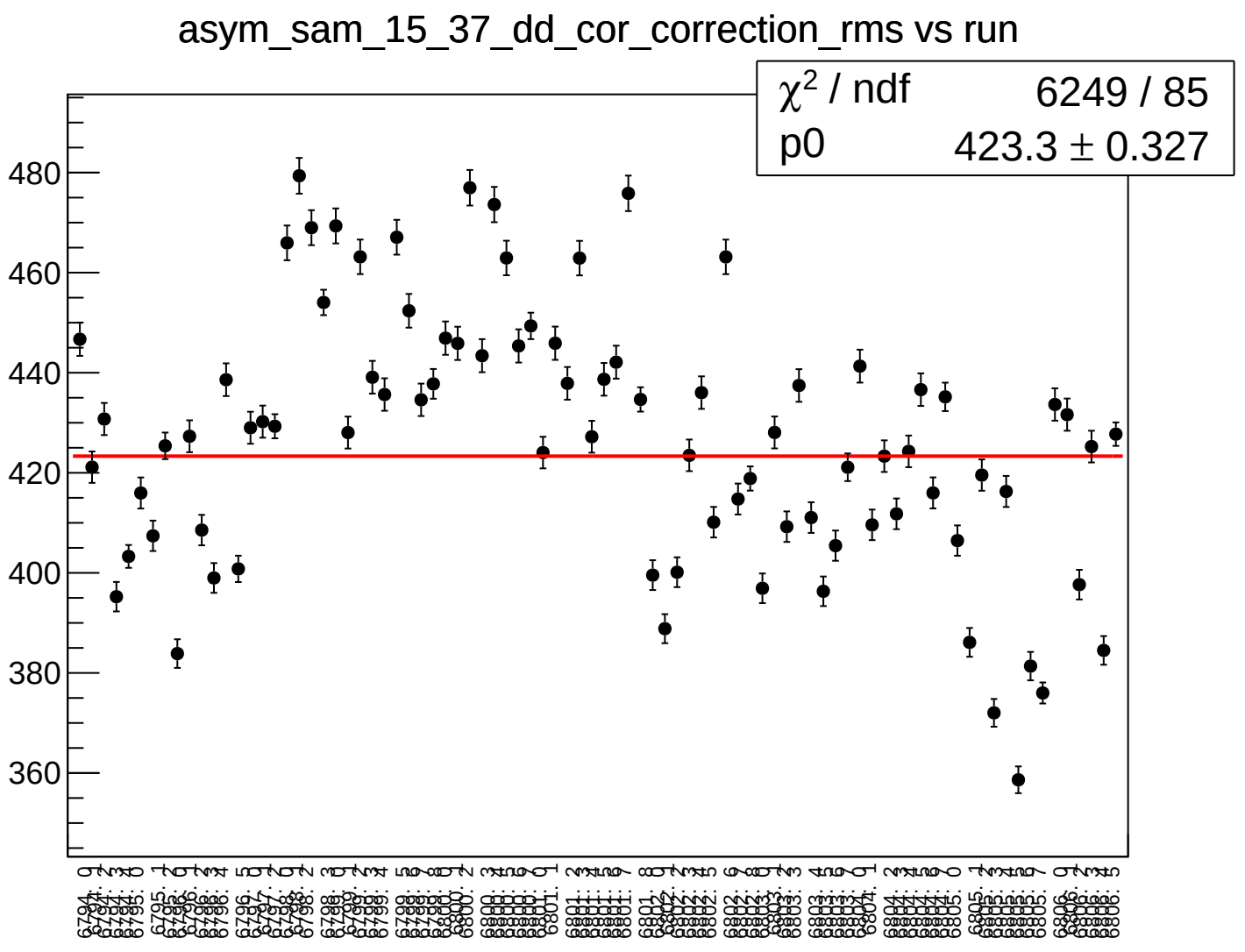

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 85.16 / 85
p0 57.93 ± 47.33
pull
Entries 86
Mean 199.5
Std Dev 0

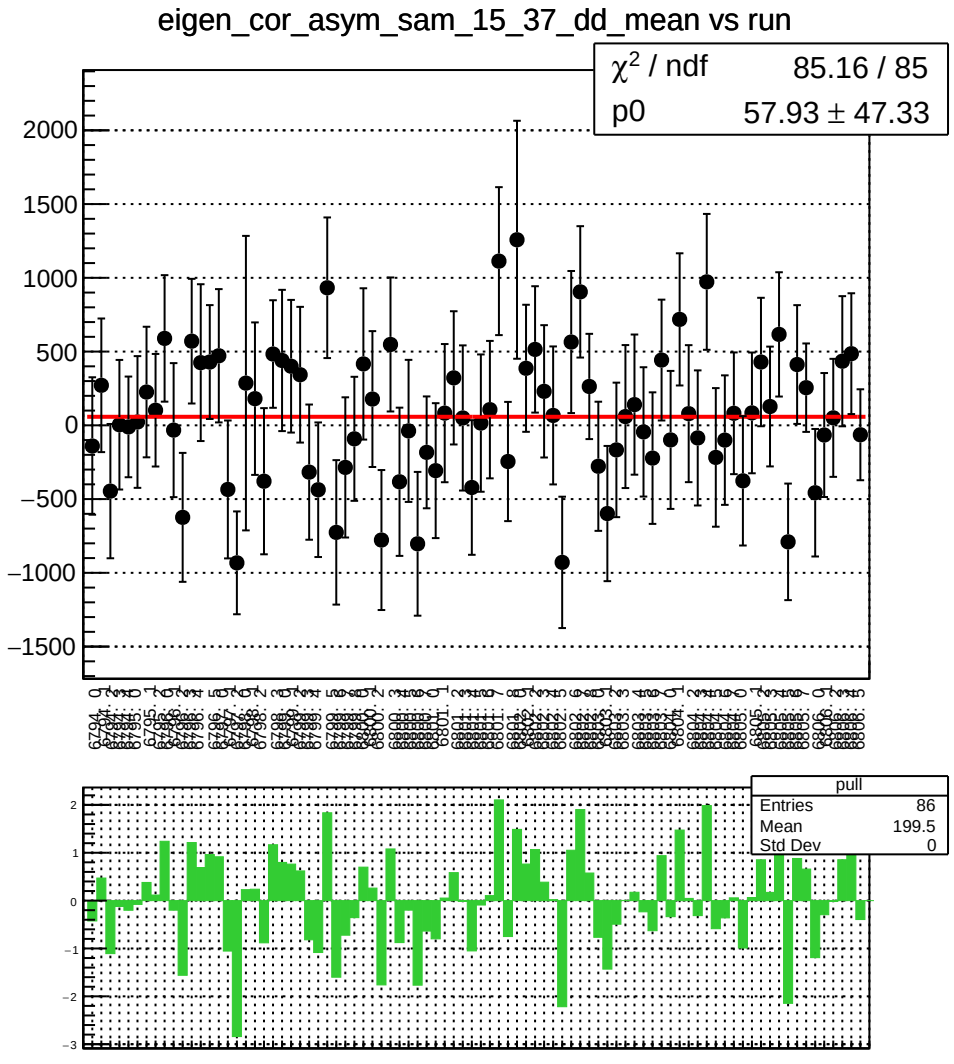

pull1D
Entries 86
Mean 0.01056
Std Dev 0.995

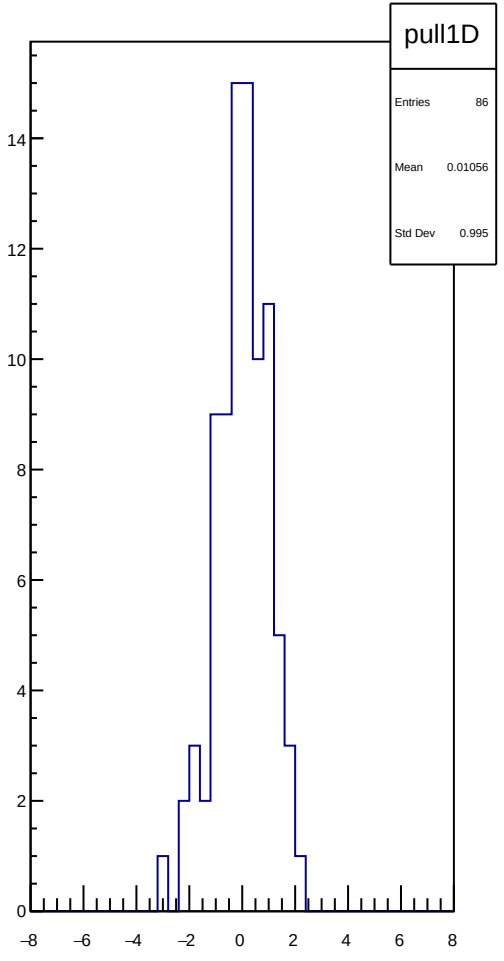

cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 43.21 ± 0.03347
100
90
80
70
60
50
40

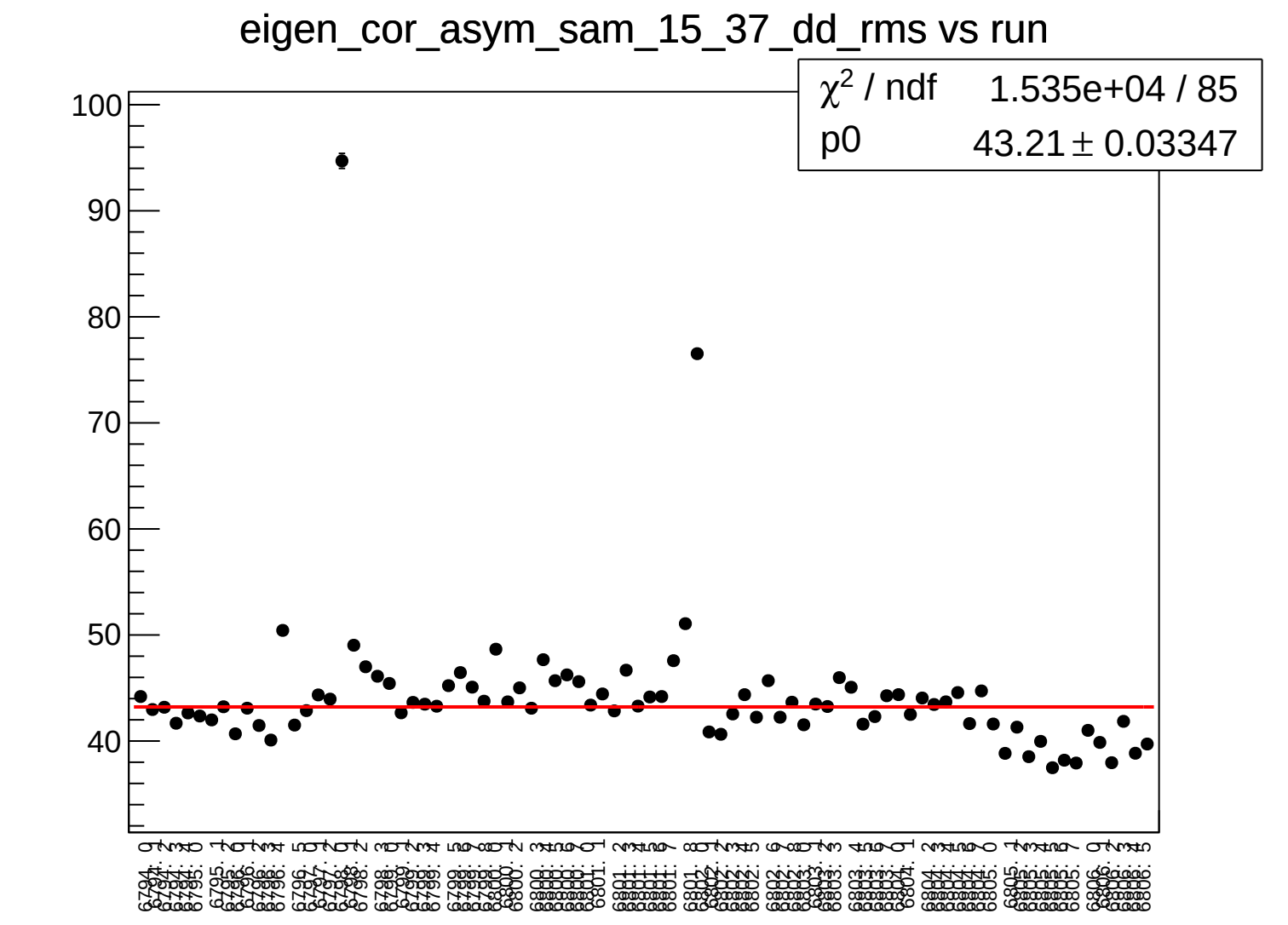

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 76.29 / 85
p0 −46.2 ± 462.4
pull
Entries 86
Mean −88.08
Std Dev 0

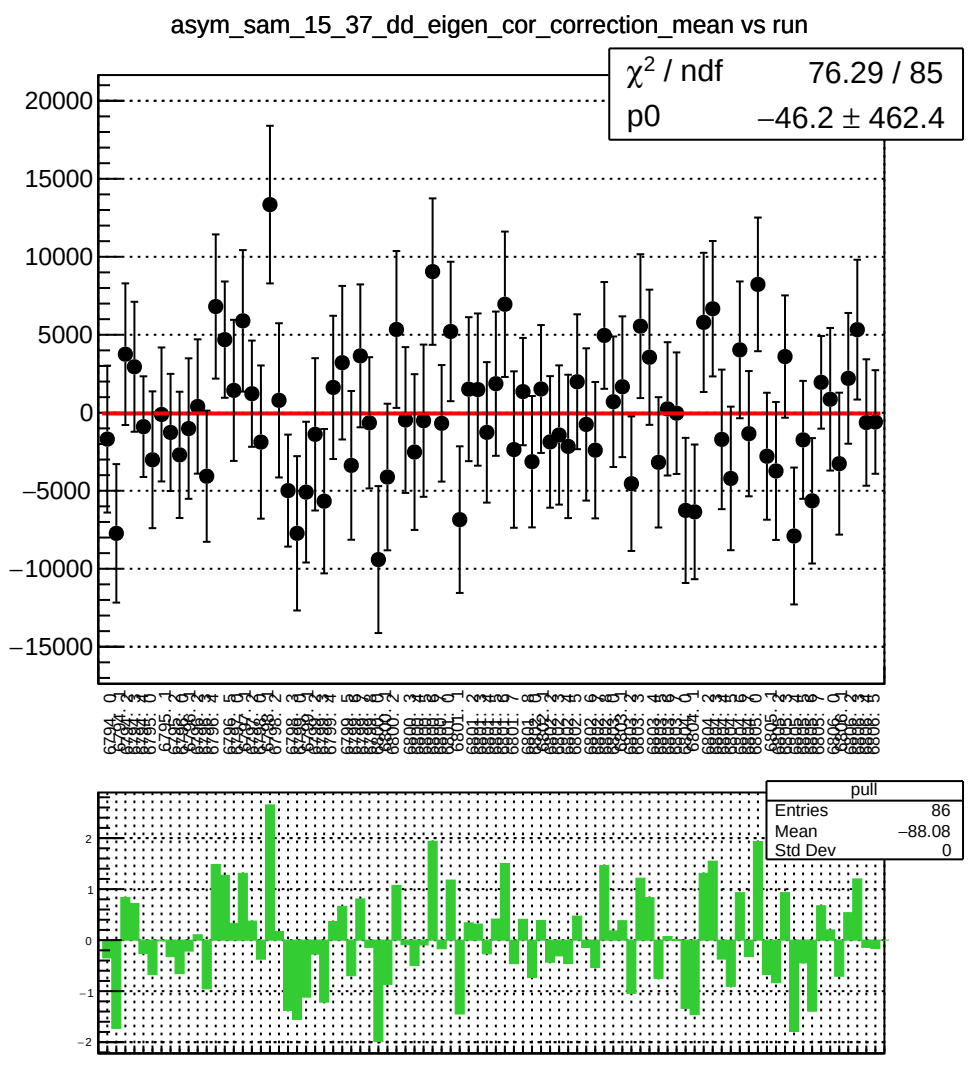

pull1D
Entries 86
Mean −0.003104
Std Dev 0.9419

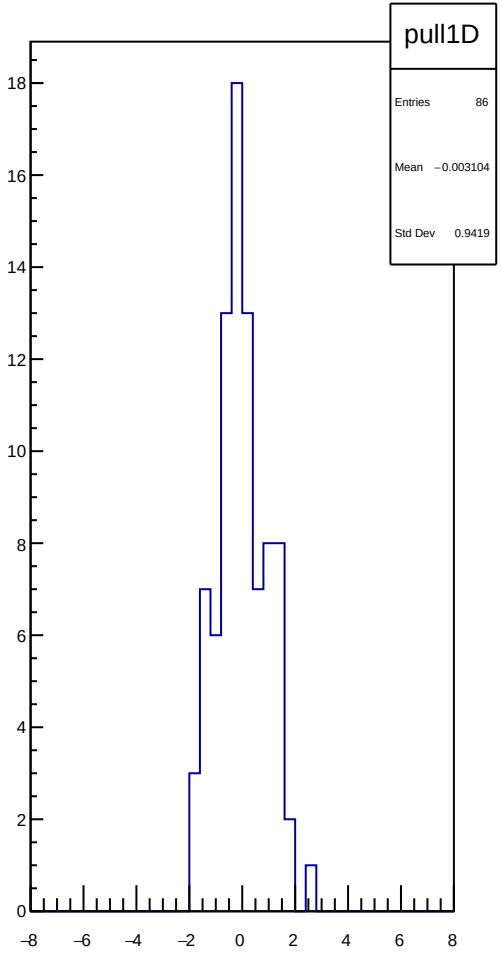

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 6249 / 85
p0 423.3 ± 0.327
480
460
440
420
400
380
360

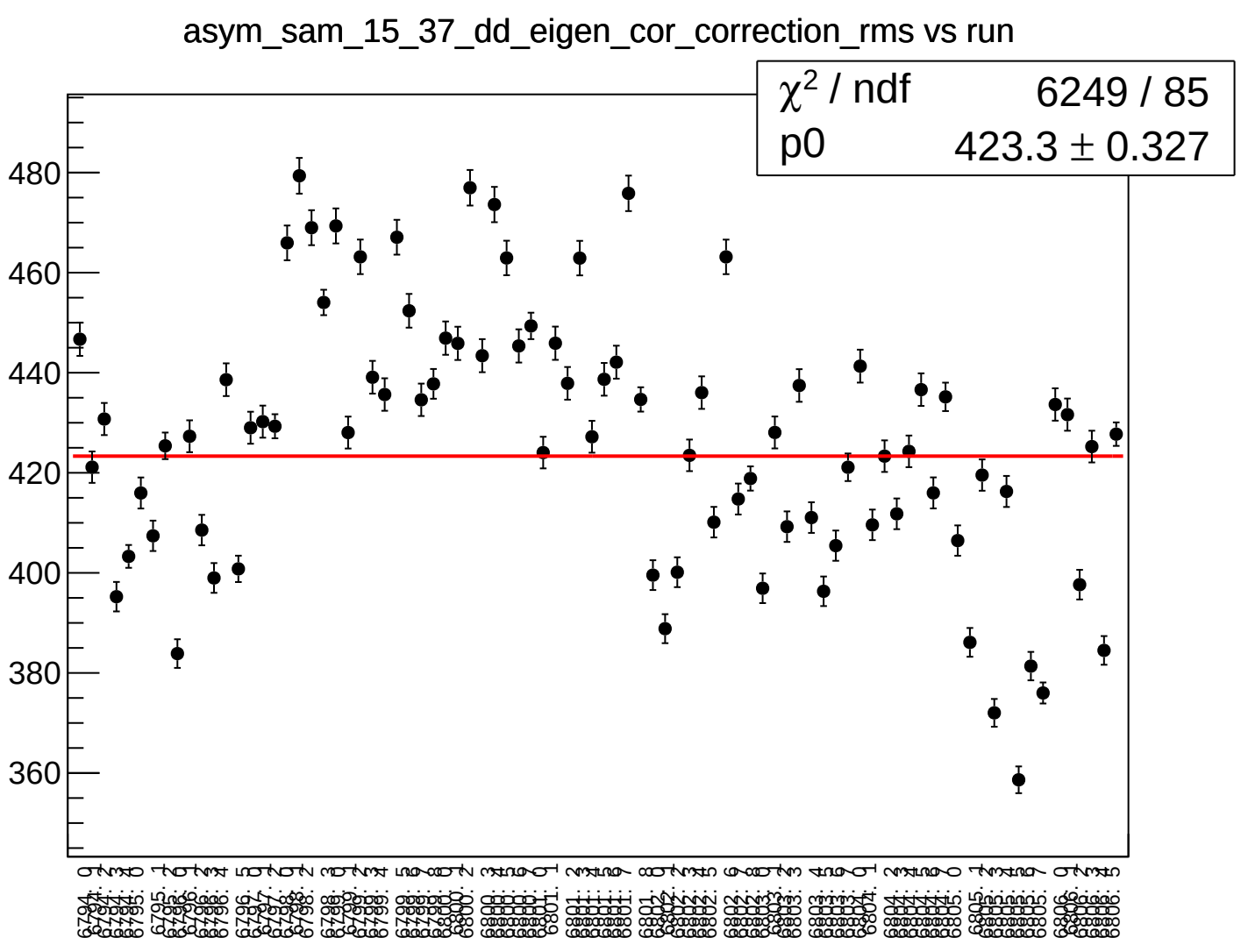

eigen_cor_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 85.16 / 85
p0 57.93 ± 47.33
pull
Entries 86
Mean 199.5
Std Dev 0

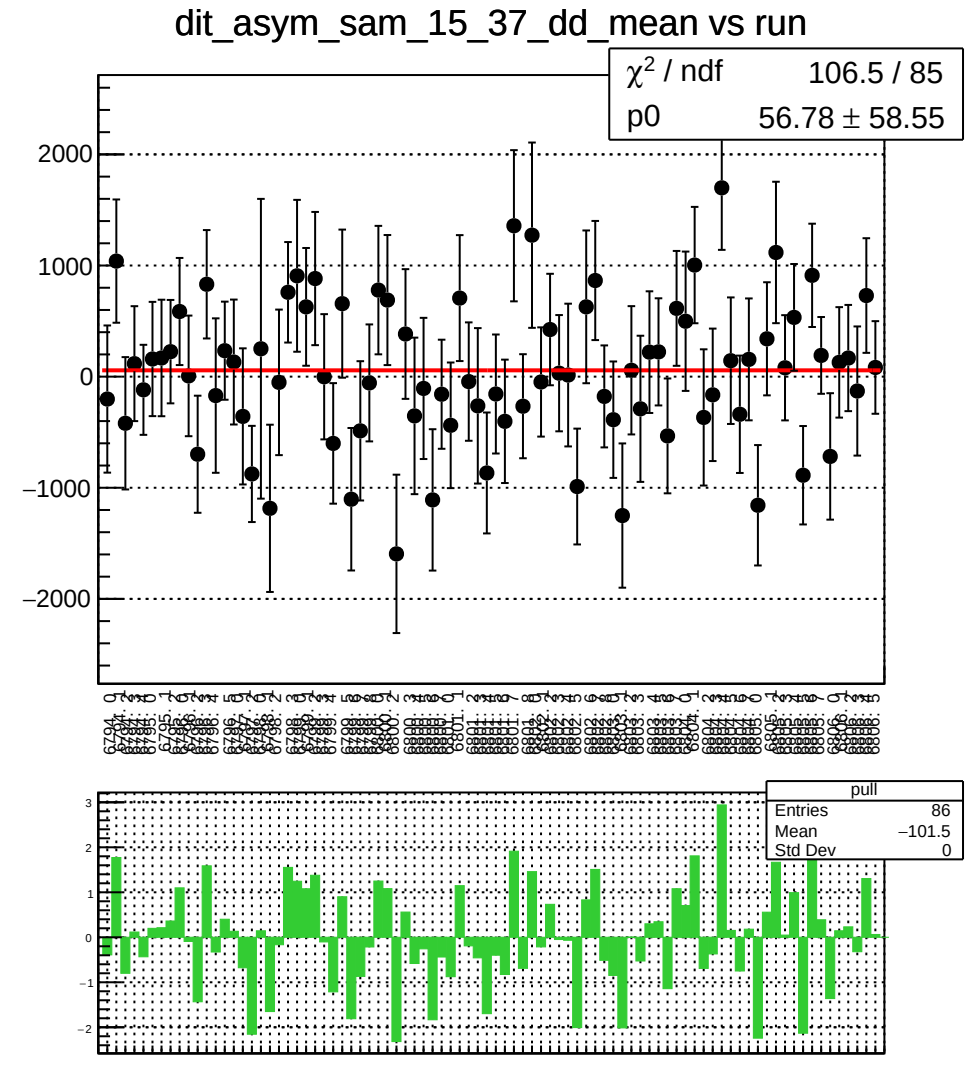

pull1D
Entries 86
Mean 0.01056
Std Dev 0.995

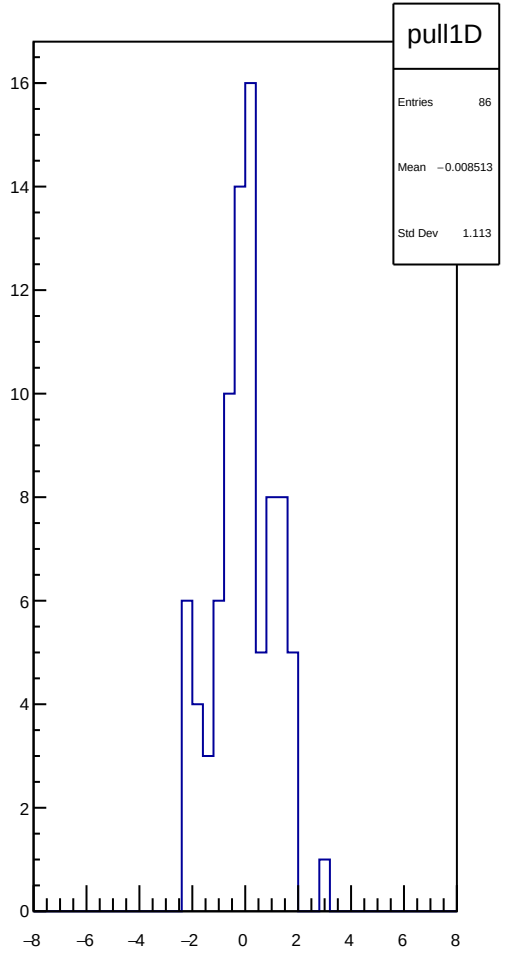

eigen_cor_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1.535e+04 / 85
p0 43.21 ± 0.03347
100
90
80
70
60
50
40

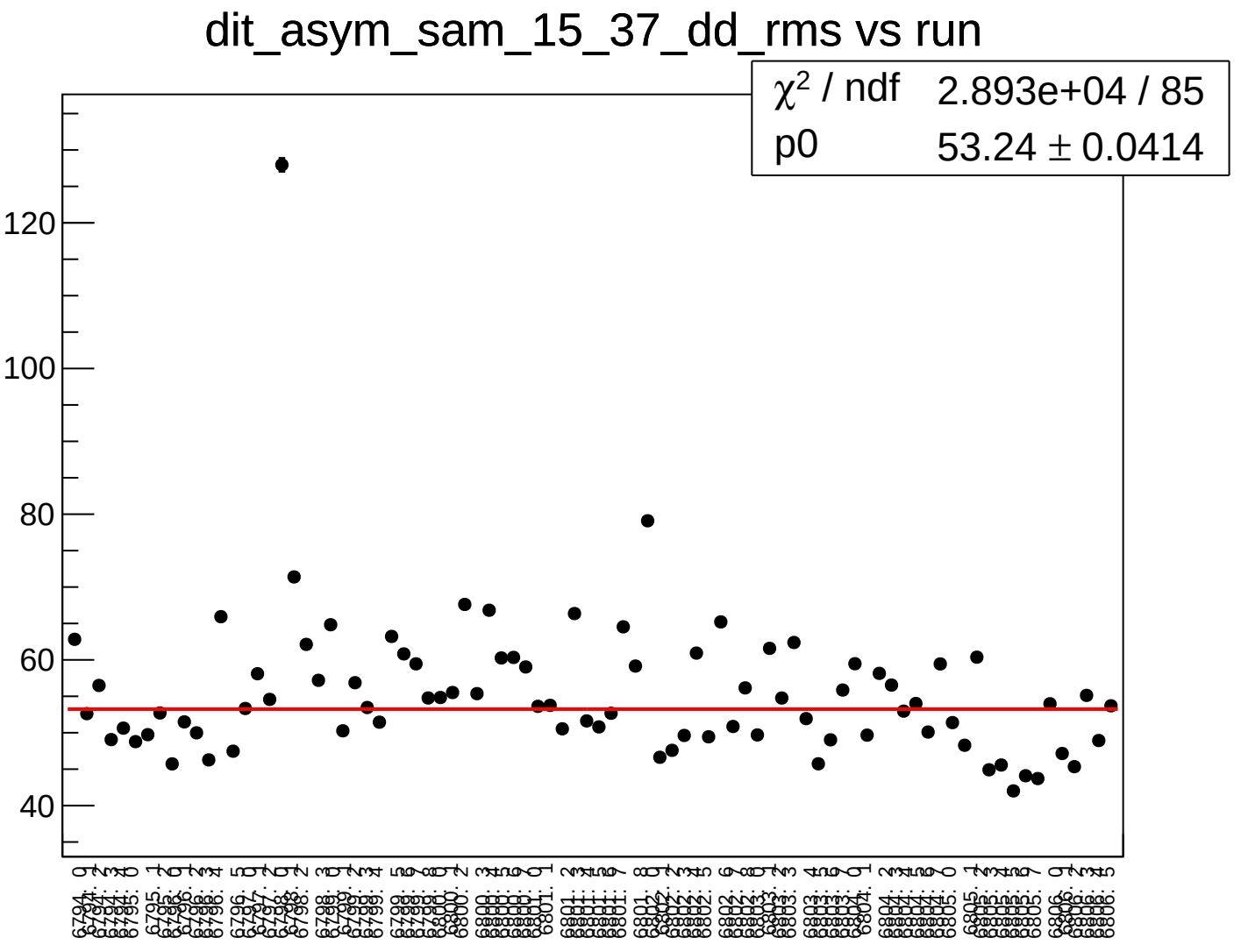

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.29 / 85
p0 −46.2 ± 462.4
pull
Entries 86
Mean −88.08
Std Dev 0

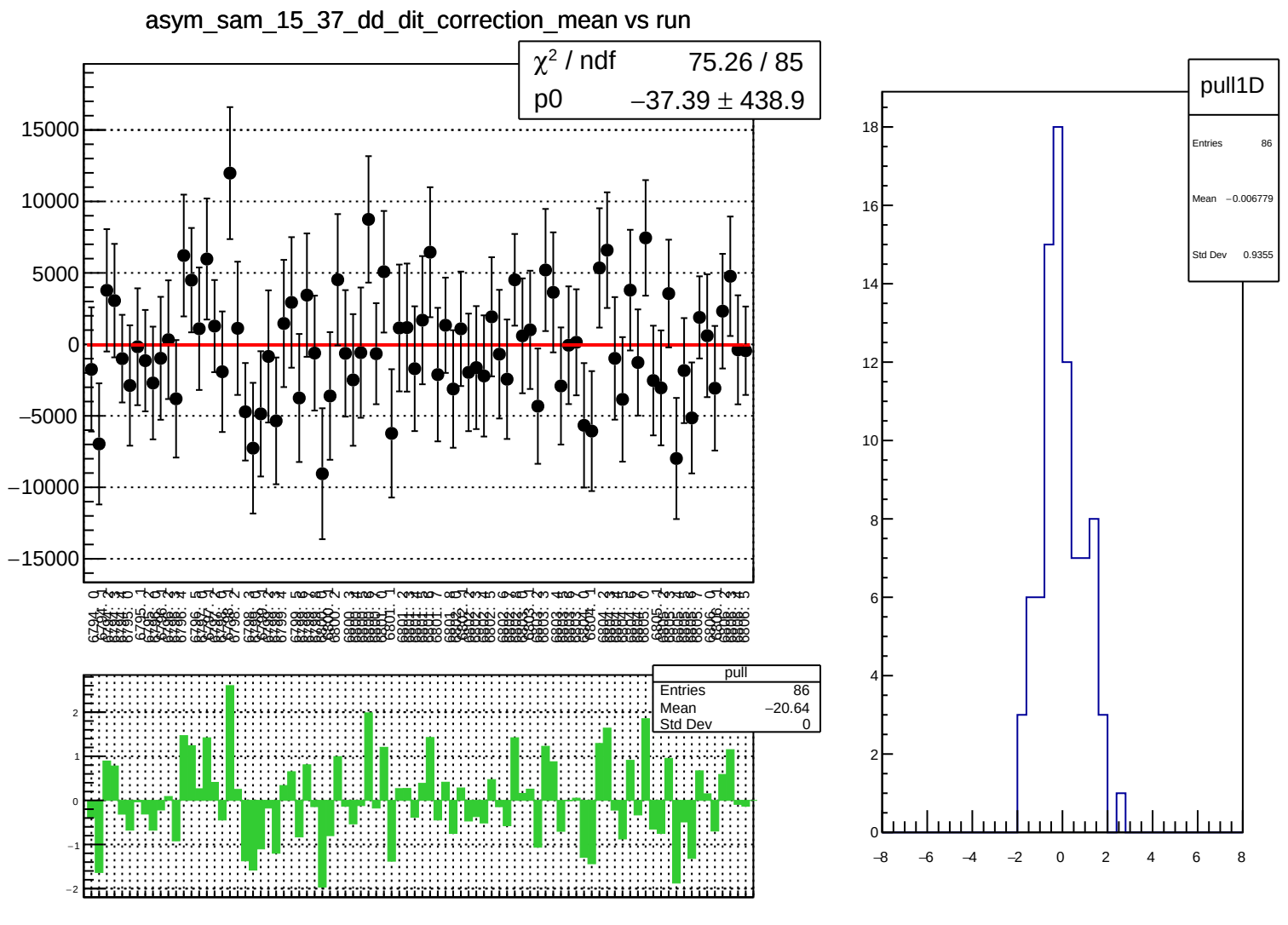

pull1D
Entries 86
Mean −0.003104
Std Dev 0.9419

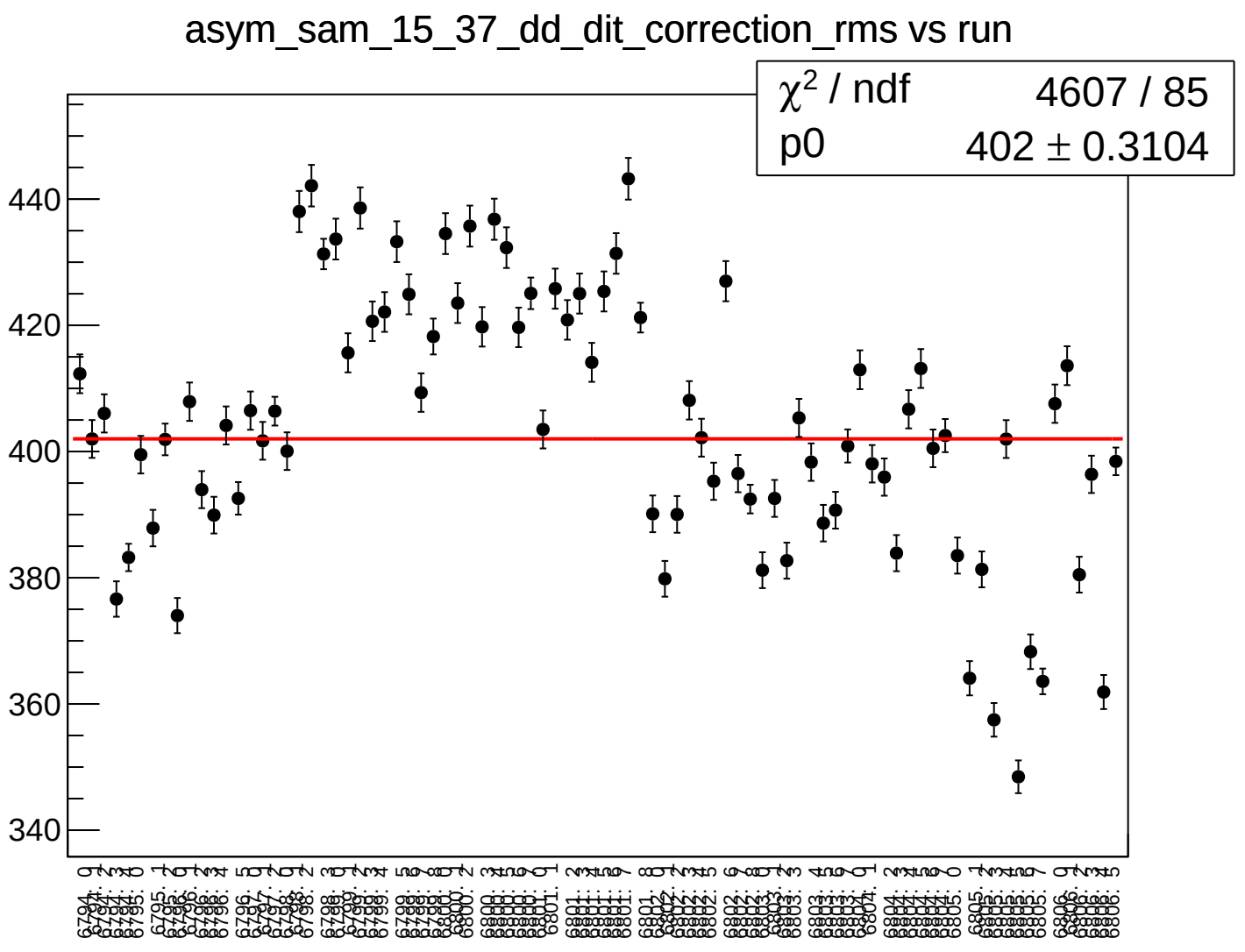

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 6249 / 85
p0 423.3 ± 0.327
480
460
440
420
400
380
360

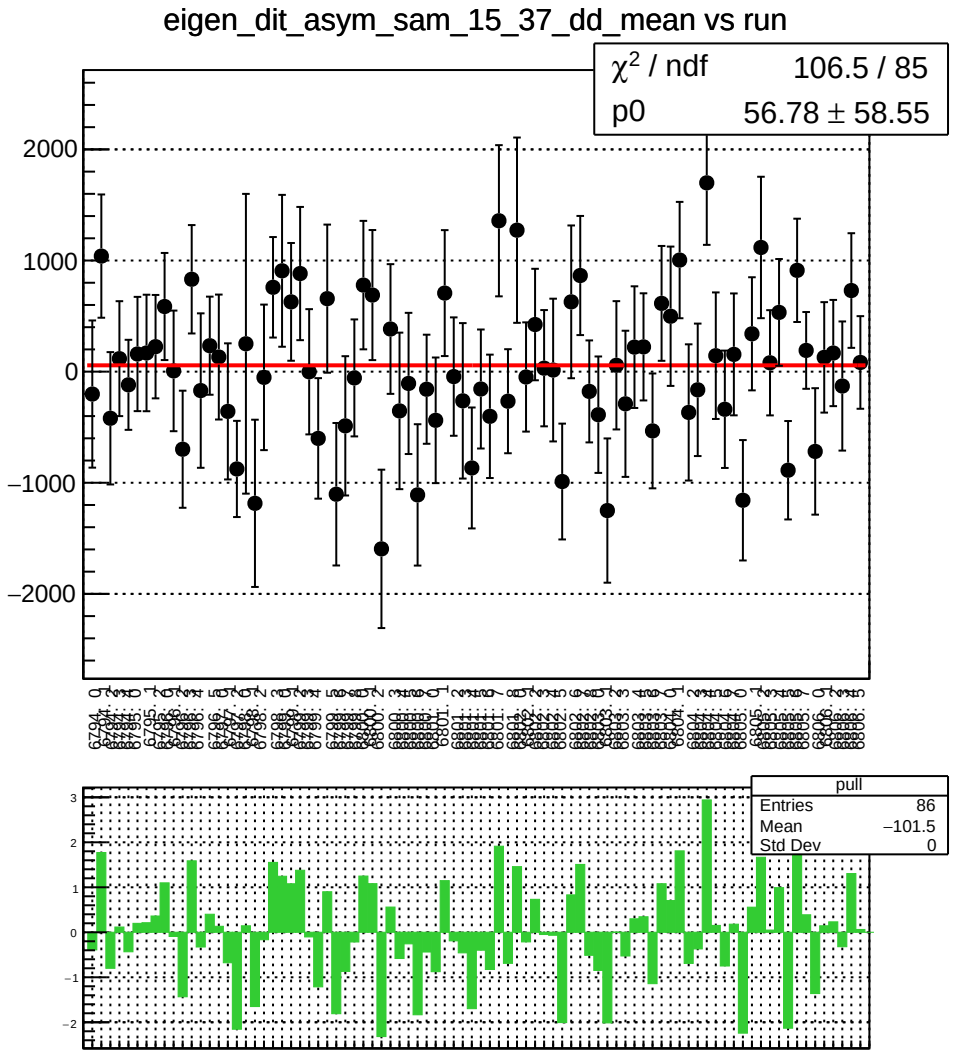

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 106.5 / 85
p0 56.78 ± 58.55
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −101.5
Std Dev 0
3
2
1
0
−1
−2

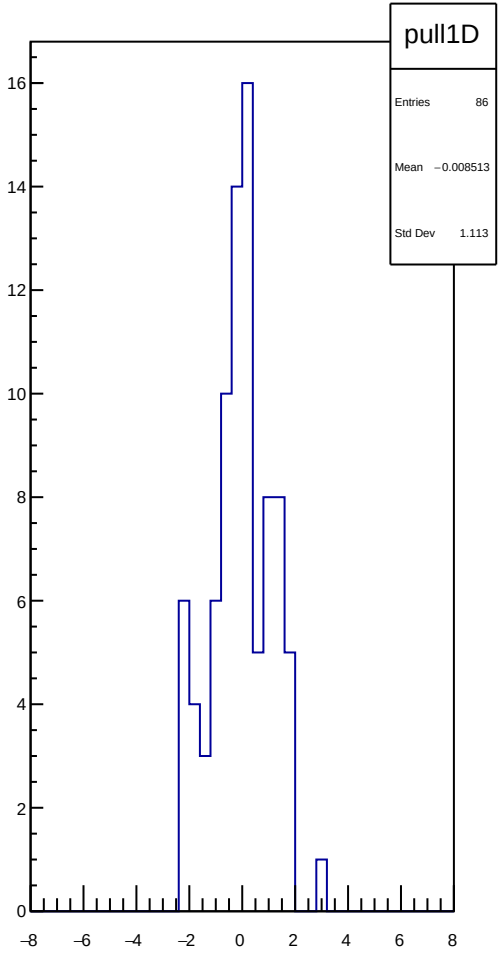

pull1D
Entries 86
Mean −0.008513
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

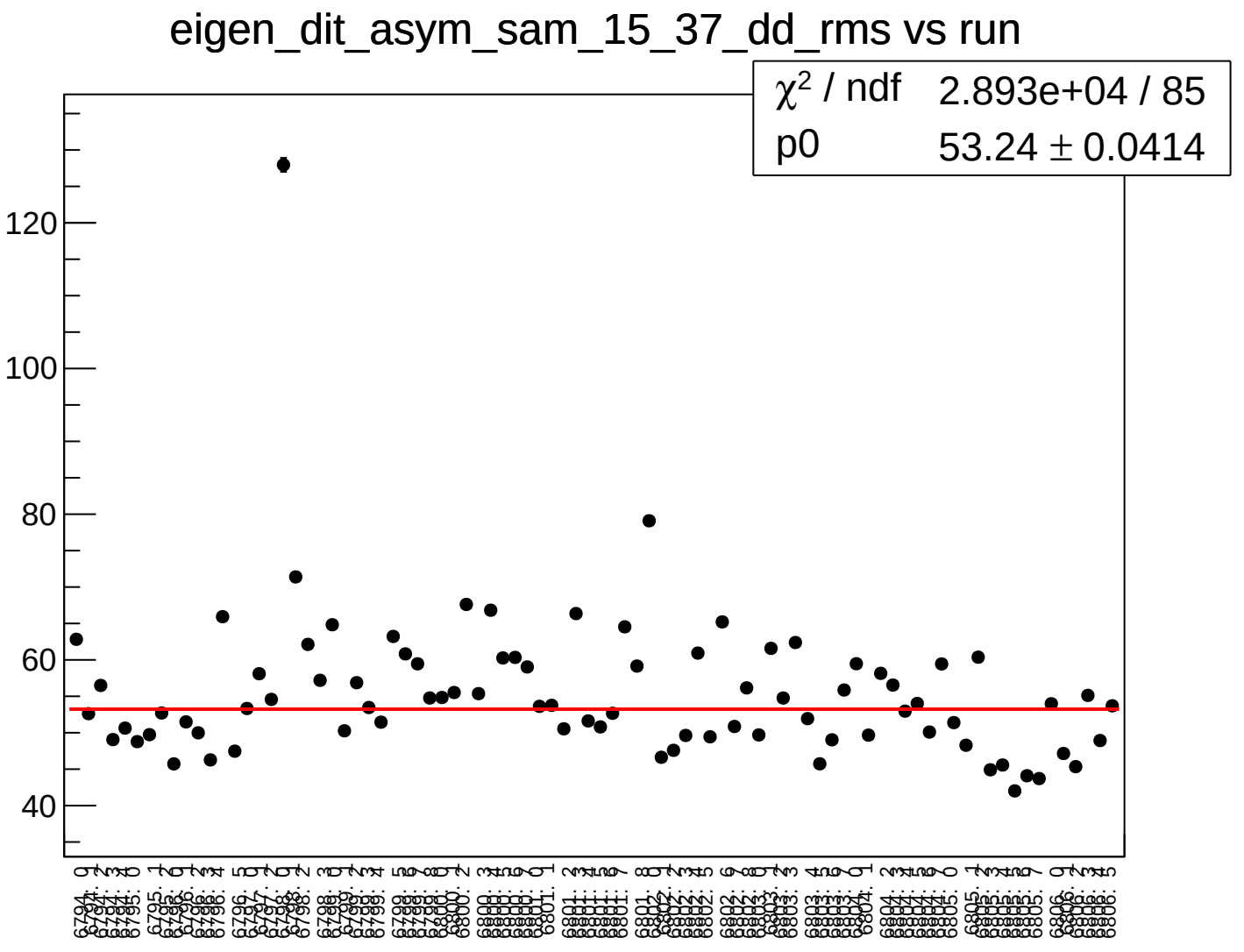

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.893e+04 / 85
p0 53.24 ± 0.0414
120
100
80
60
40

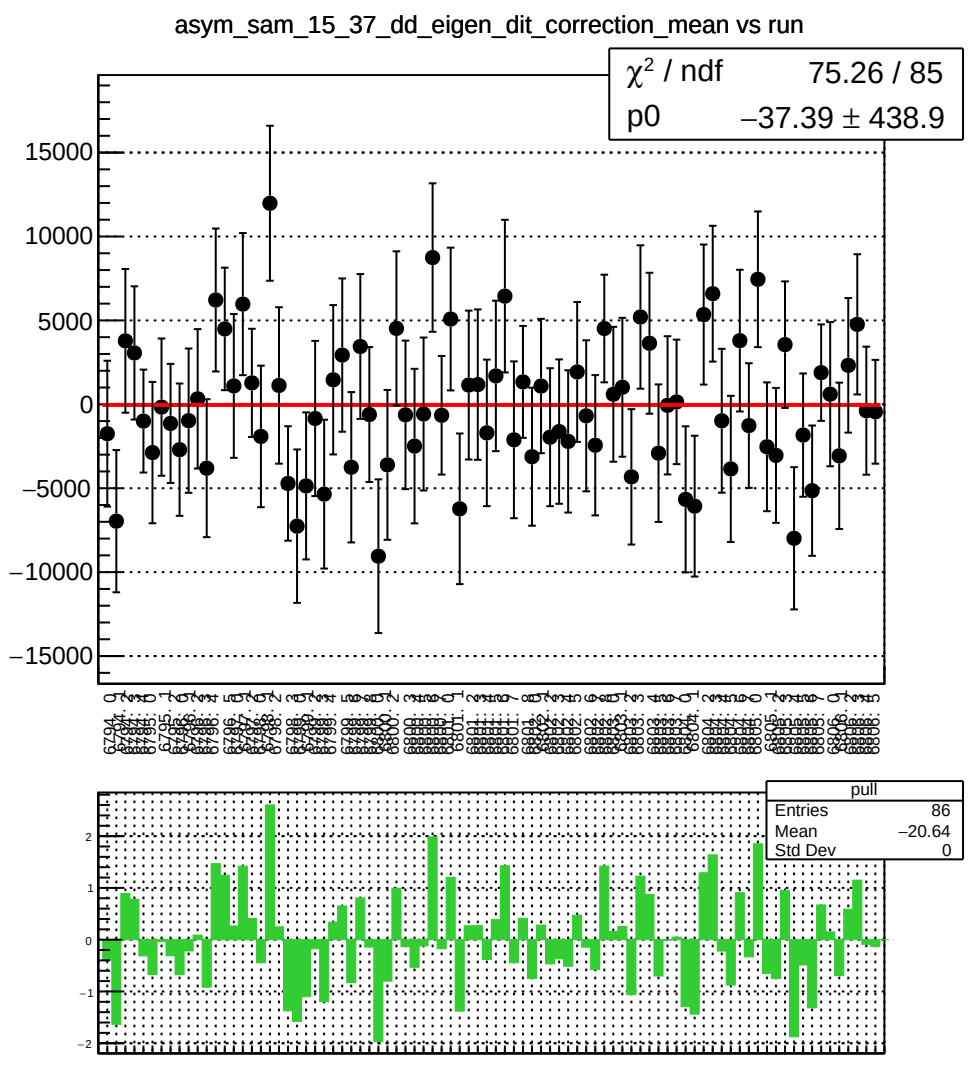

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 75.26 / 85
p0 −37.39 ± 438.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −20.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.006779
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

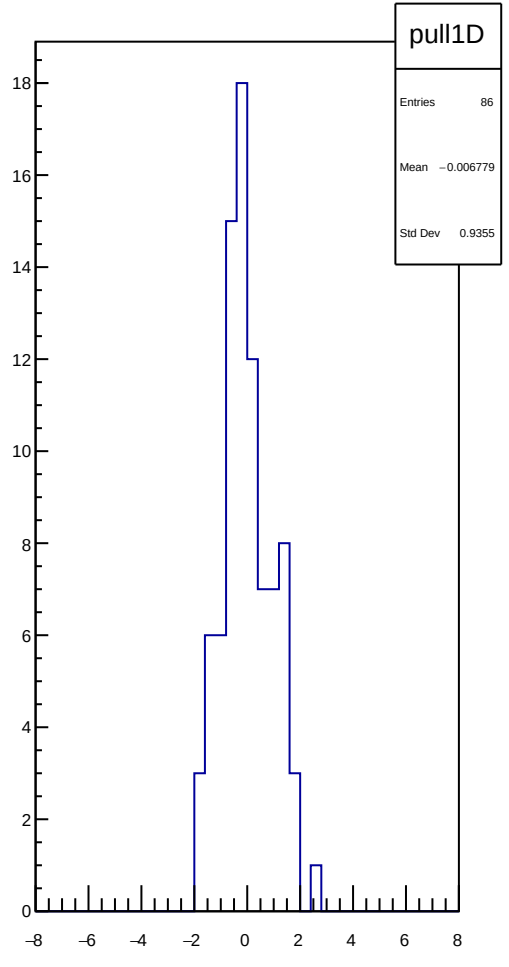

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 4607 / 85
p0 402 ± 0.3104
440
420
400
380
360
340

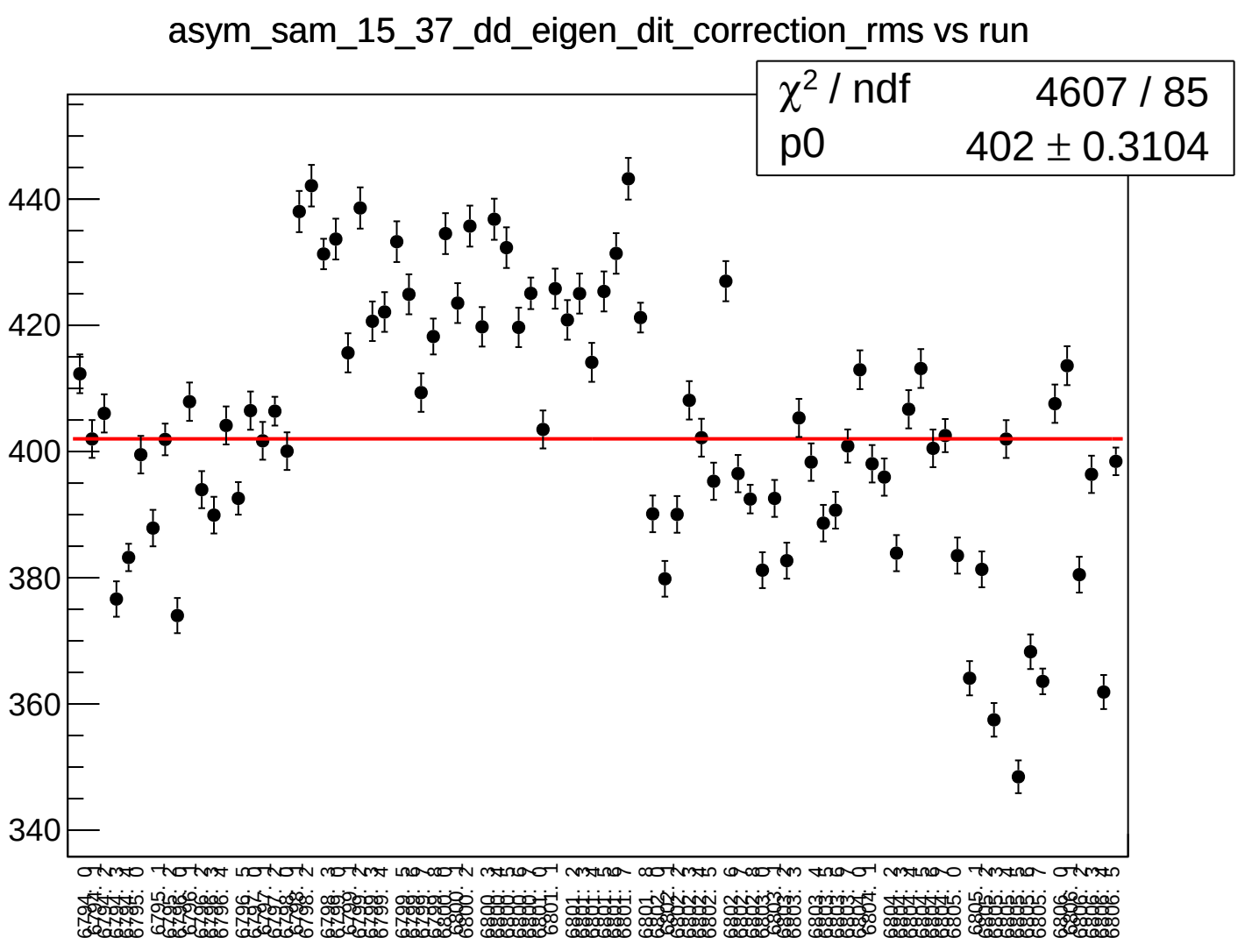

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 106.5 / 85
p0 56.78 ± 58.55
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −101.5
Std Dev 0
3
2
1
0
−1
−2

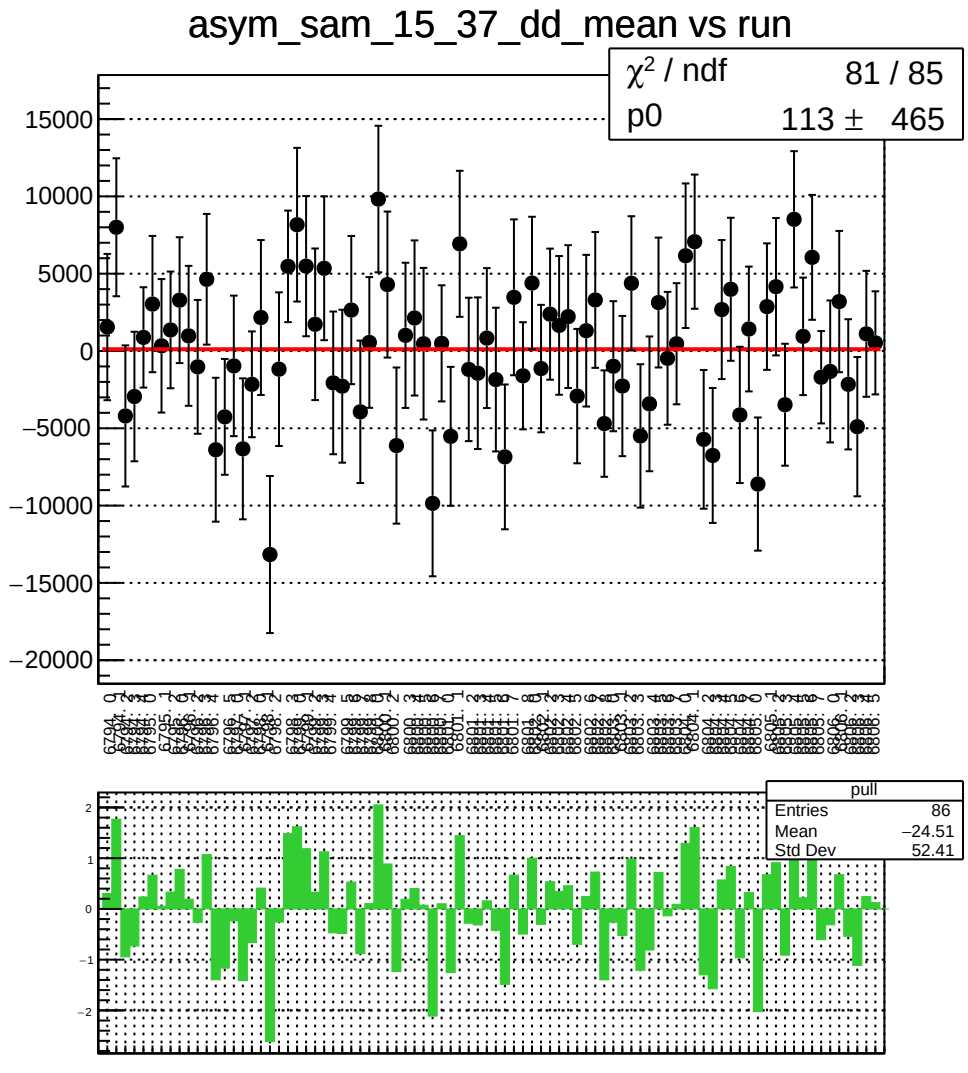

pull1D
Entries 86
Mean −0.008513
Std Dev 1.113
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

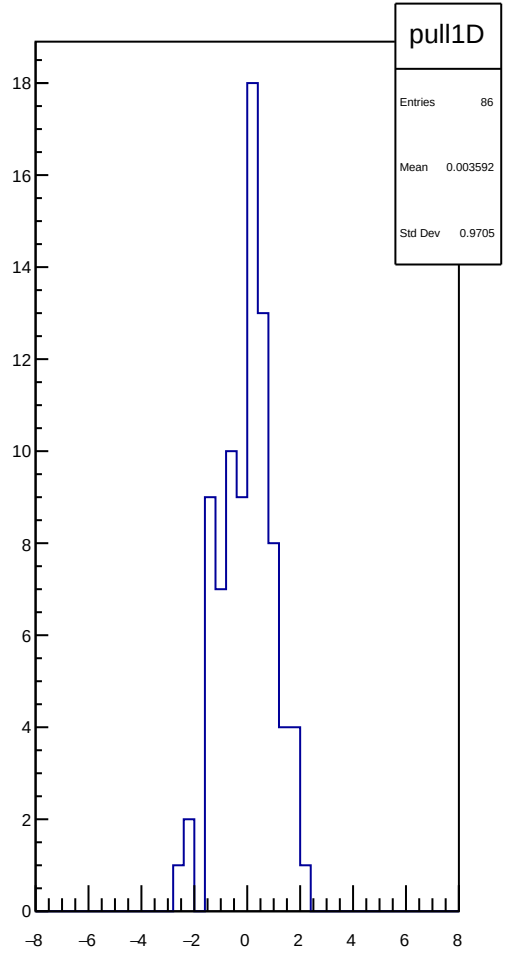

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.893e+04 / 85
p0 53.24 ± 0.0414
120
100
80
60
40

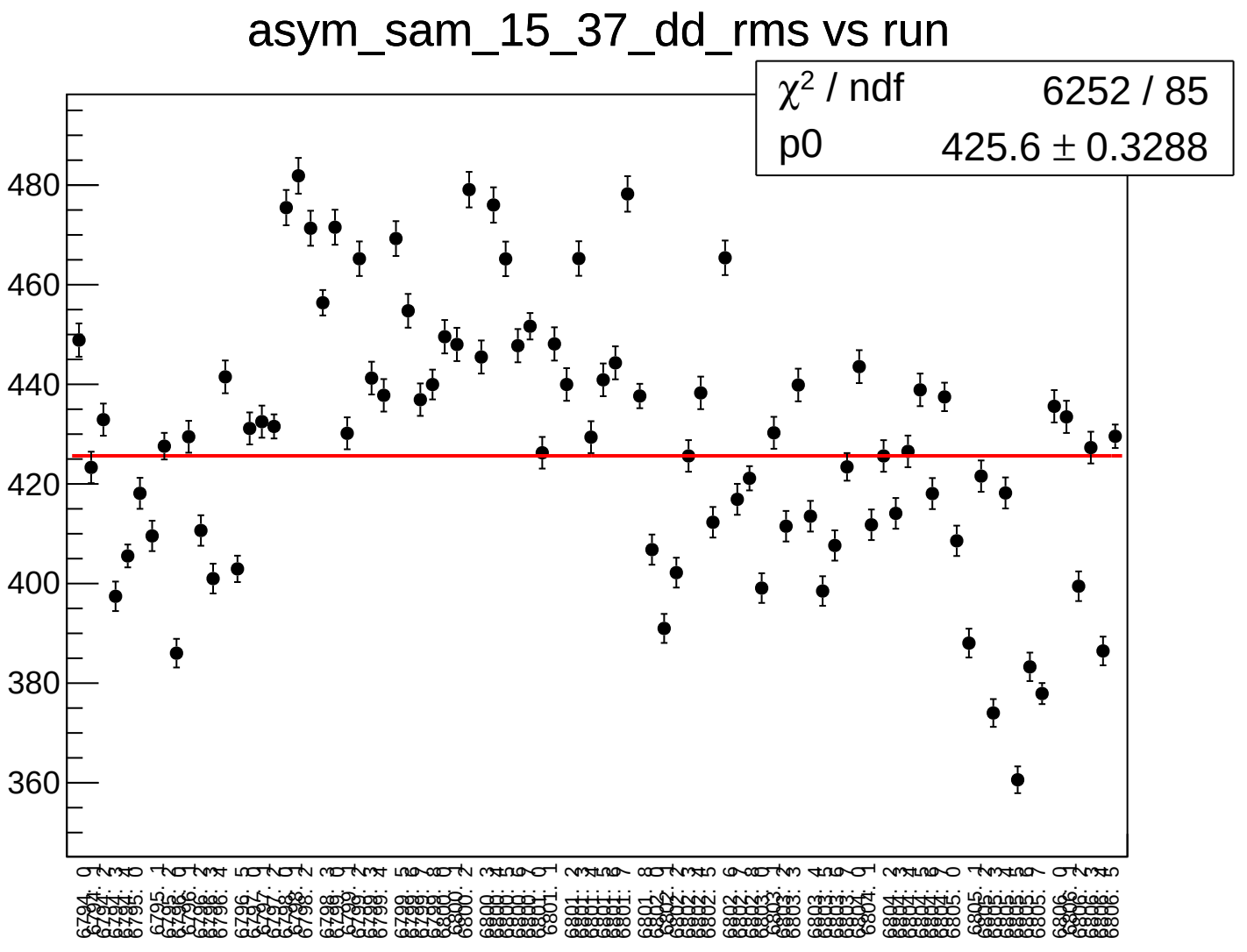

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.26 / 85
p0 −37.39 ± 438.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −20.64
Std Dev 0
2
1
0
−1
−2

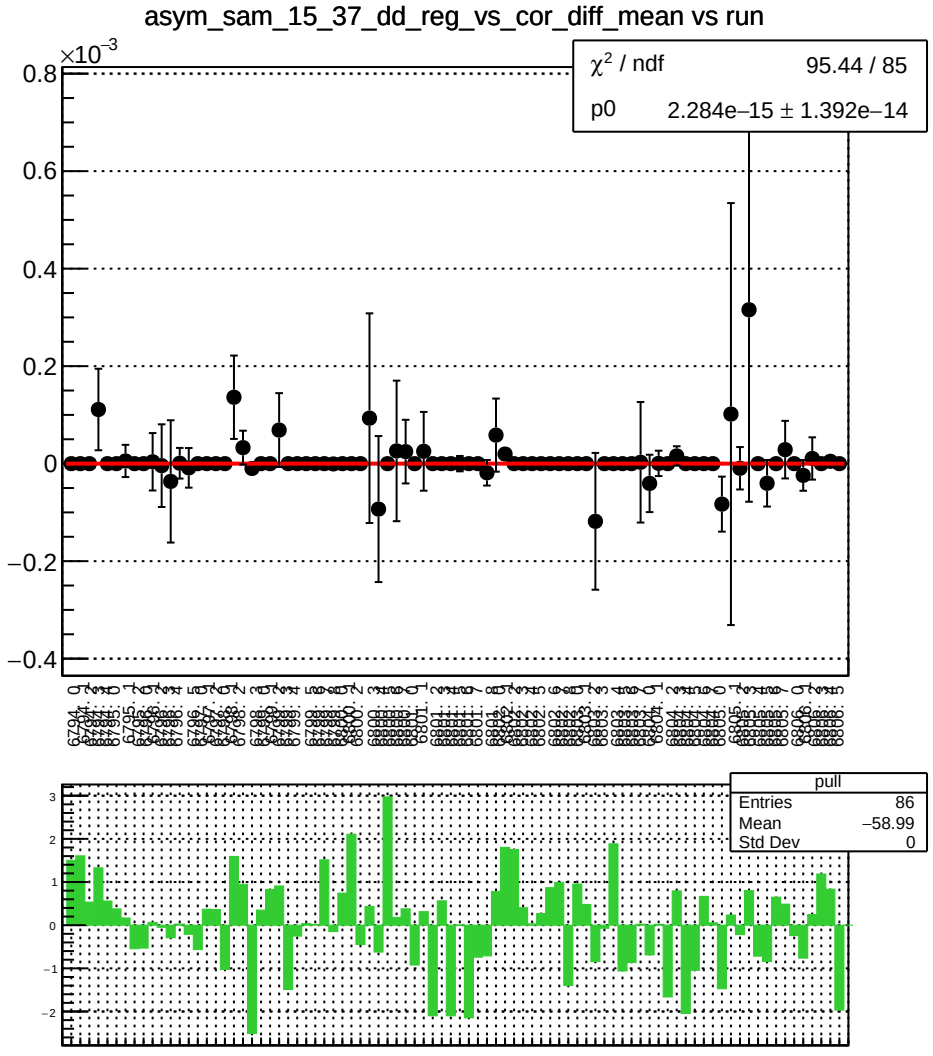

pull1D
Entries 86
Mean −0.006779
Std Dev 0.9355
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

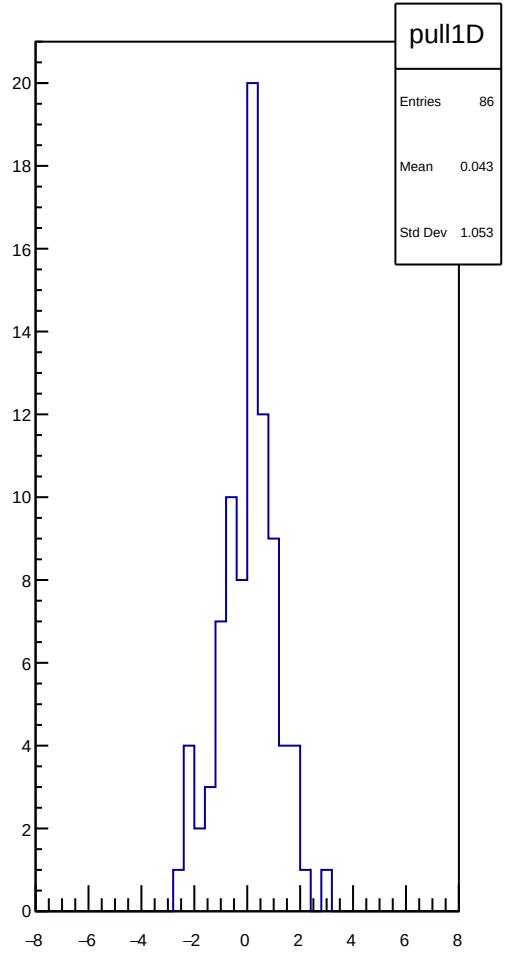

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 4607 / 85
p0 402 ± 0.3104
440
420
400
380
360
340

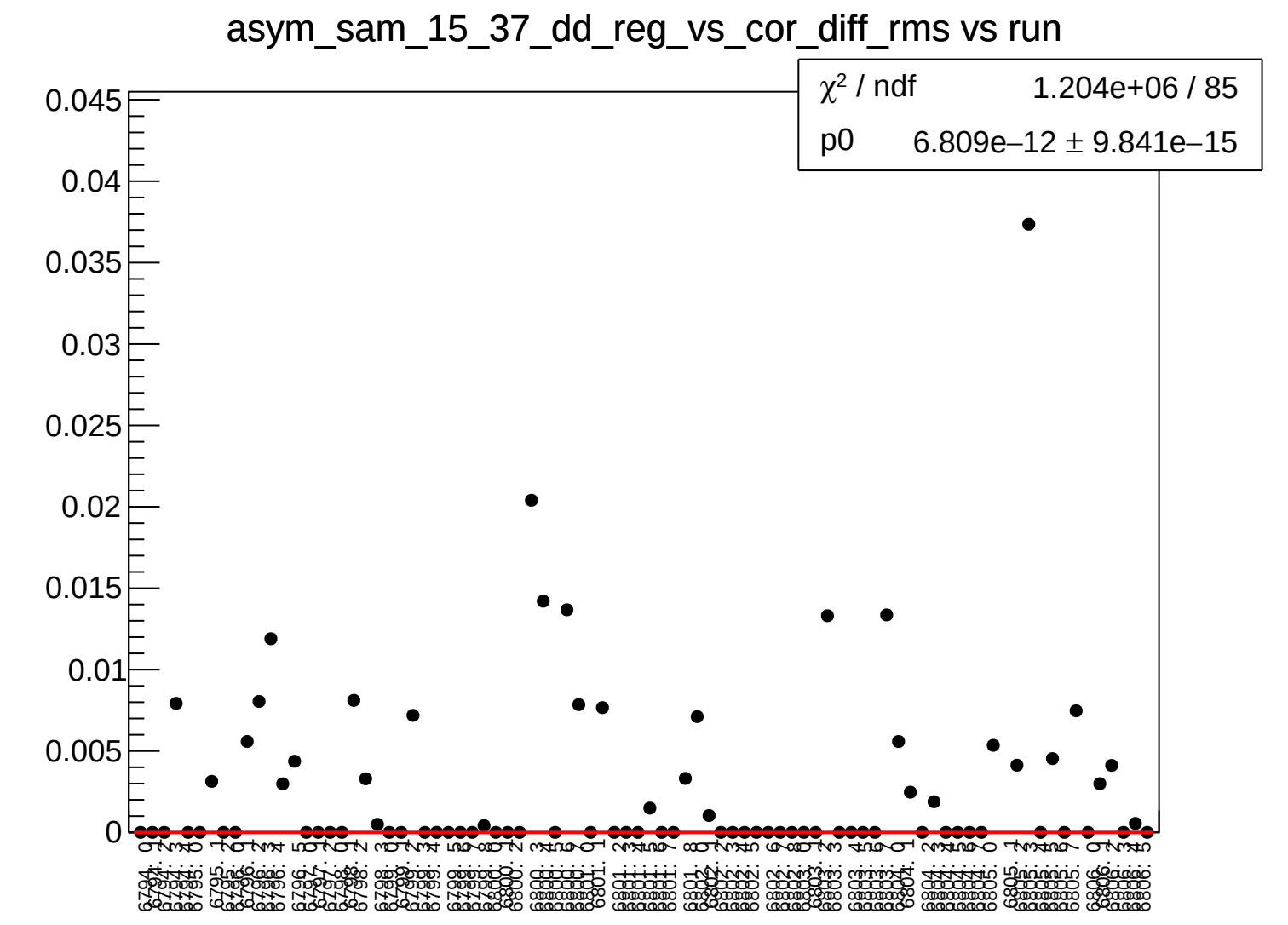

asym_sam_15_37_dd_mean vs run
χ² / ndf 81 / 85
p0 113 ± 465
pull
Entries 86
Mean −24.51
Std Dev 52.41

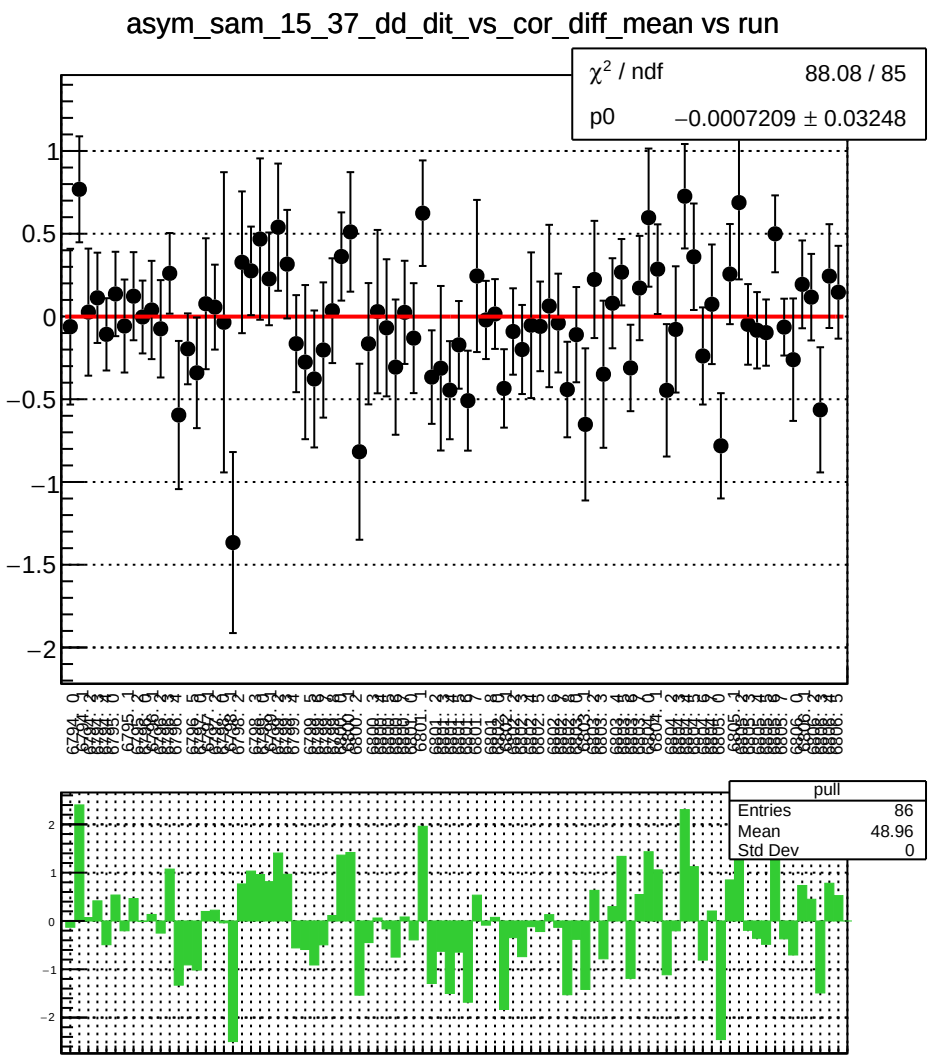

pull1D
Entries 86
Mean 0.003592
Std Dev 0.9705

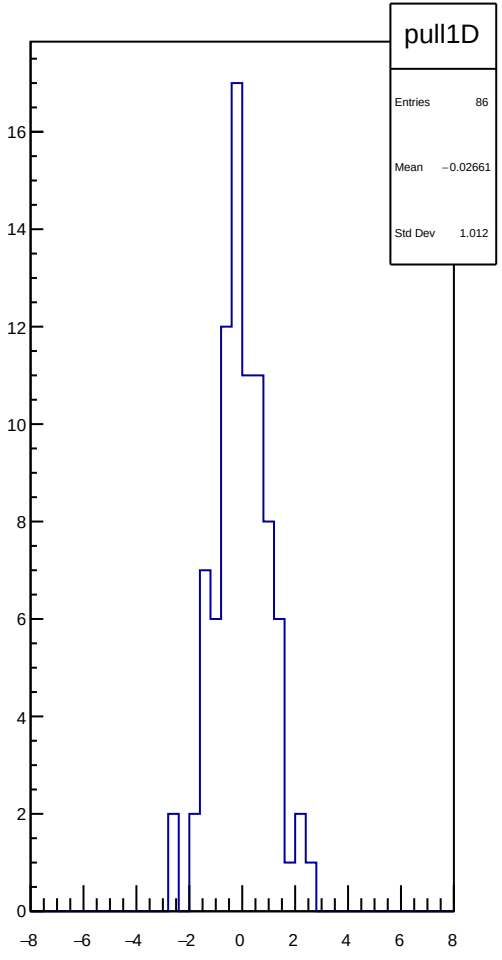

asym_sam_15_37_dd_rms vs run
χ² / ndf 6252 / 85
p0 425.6 ± 0.3288
480
460
440
420
400
380
360

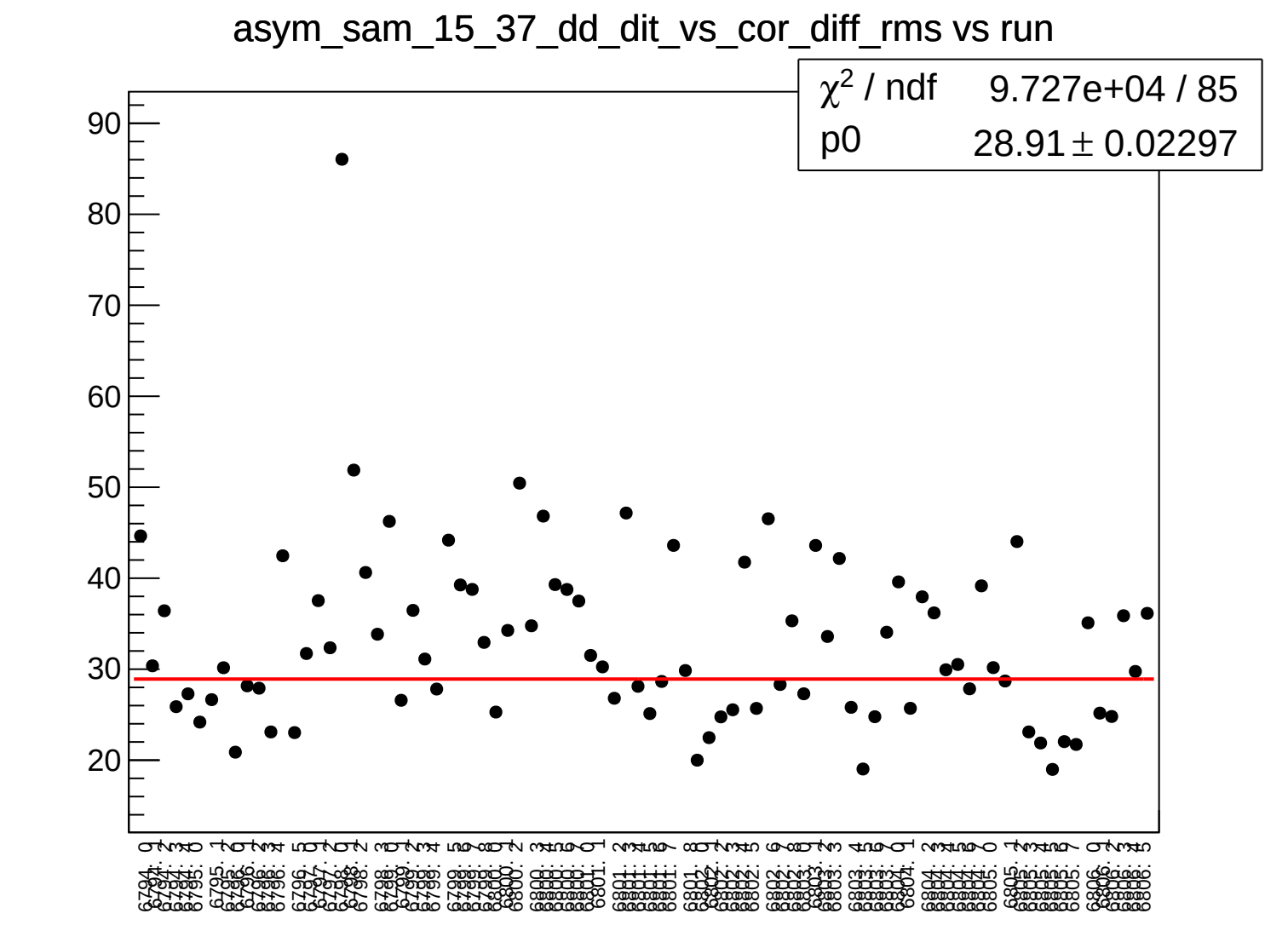

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 95.44 / 85
p0 2.284e−15 ± 1.392e−14
pull
Entries 86
Mean −58.99
Std Dev 0

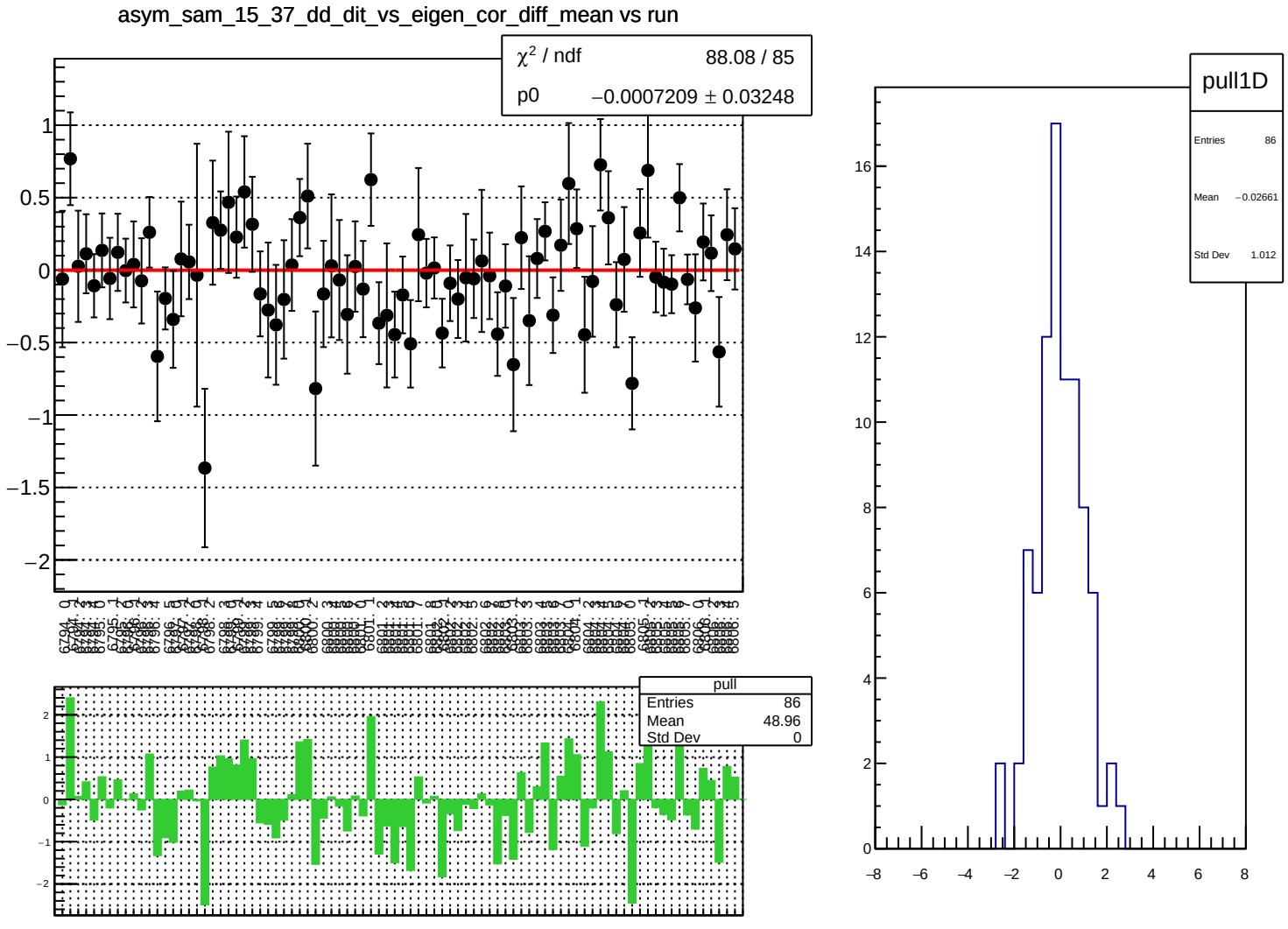

pull1D
Entries 86
Mean 0.043
Std Dev 1.053

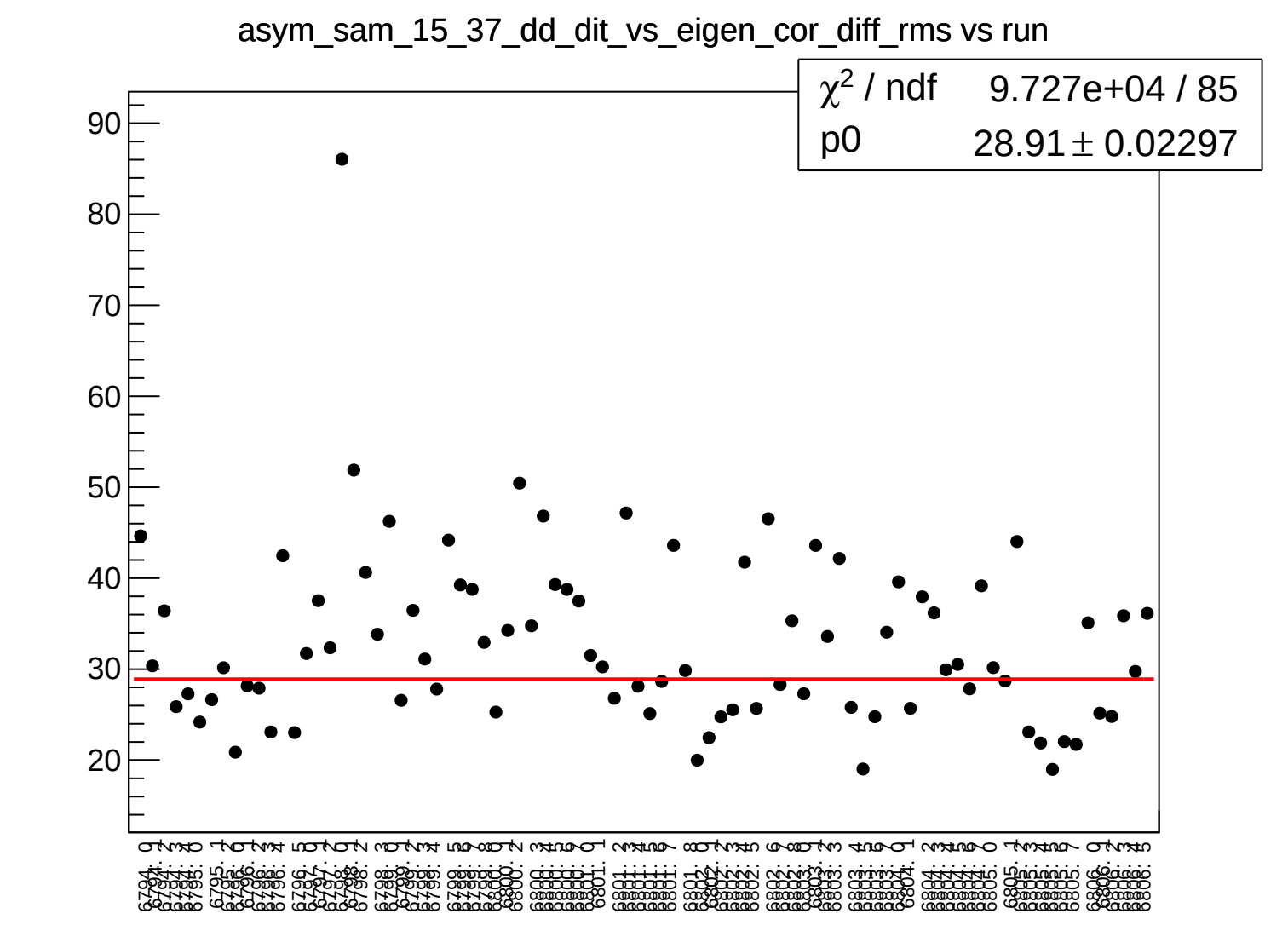

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 85
p0 6.809e−12 ± 9.841e−15
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

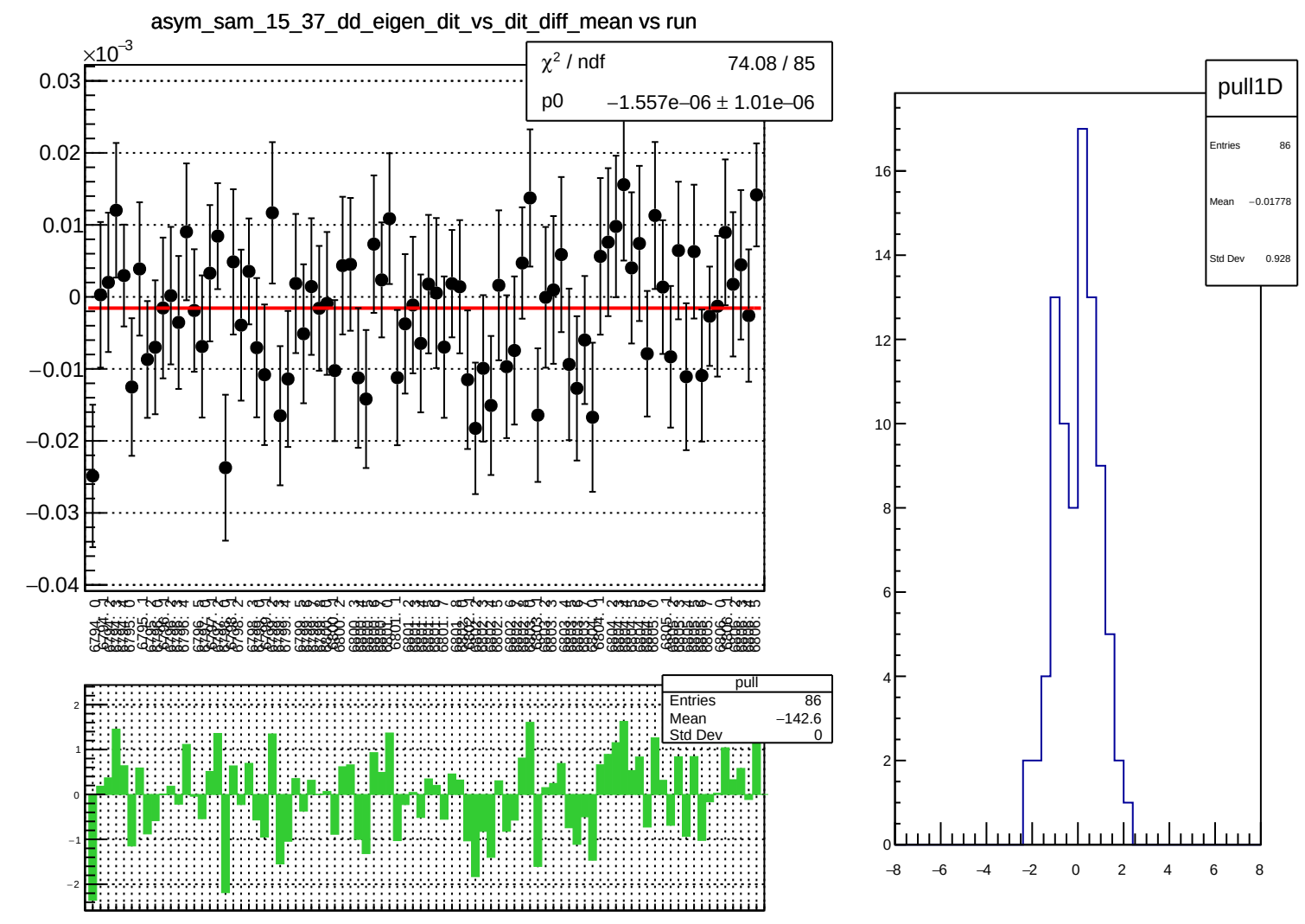

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.08 / 85
p0 −0.0007209 ± 0.03248
pull
Entries 86
Mean 48.96
Std Dev 0

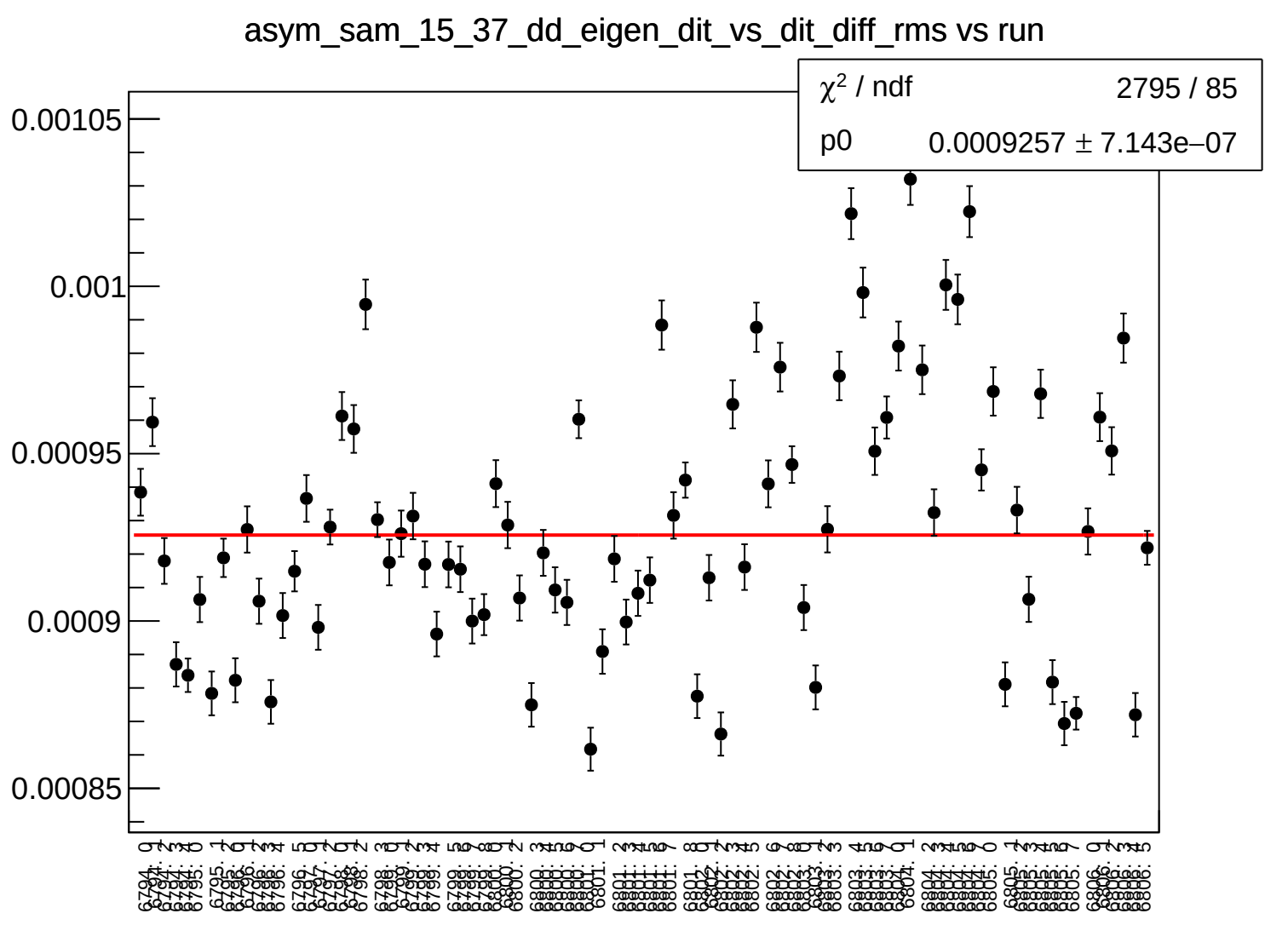

pull1D
Entries 86
Mean −0.02661
Std Dev 1.012

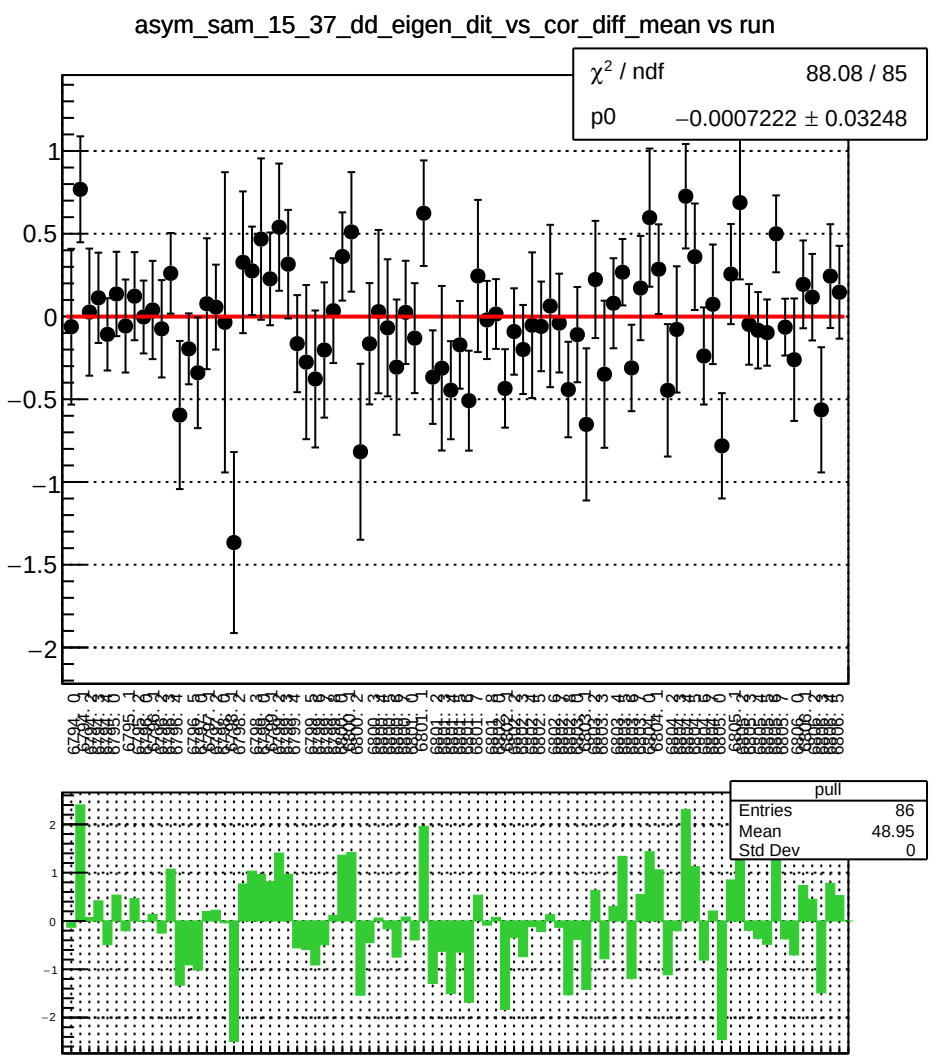

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.727e+04 / 85
p0 28.91 ± 0.02297
90
80
70
60
50
40
30
20

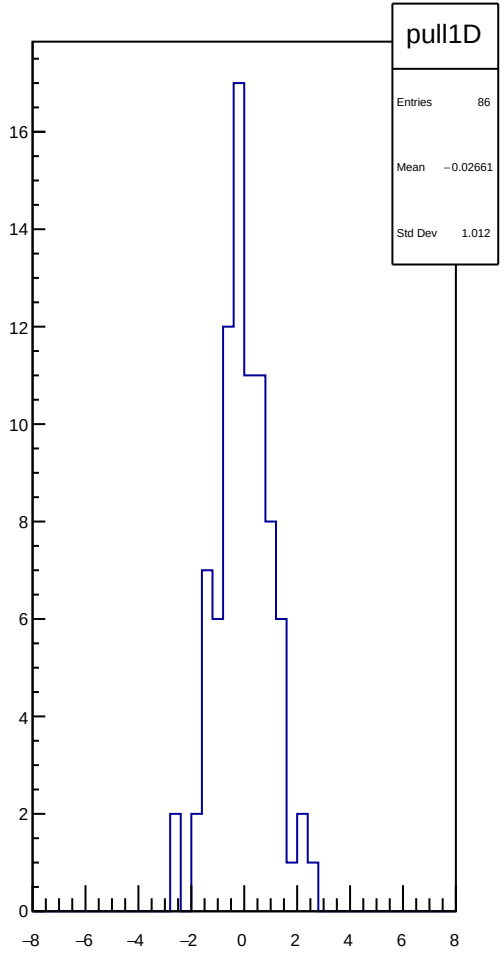

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.08 / 85
p0 −0.0007209 ± 0.03248
pull
Entries 86
Mean 48.96
Std Dev 0
pull1D
Entries 86
Mean −0.02661
Std Dev 1.012

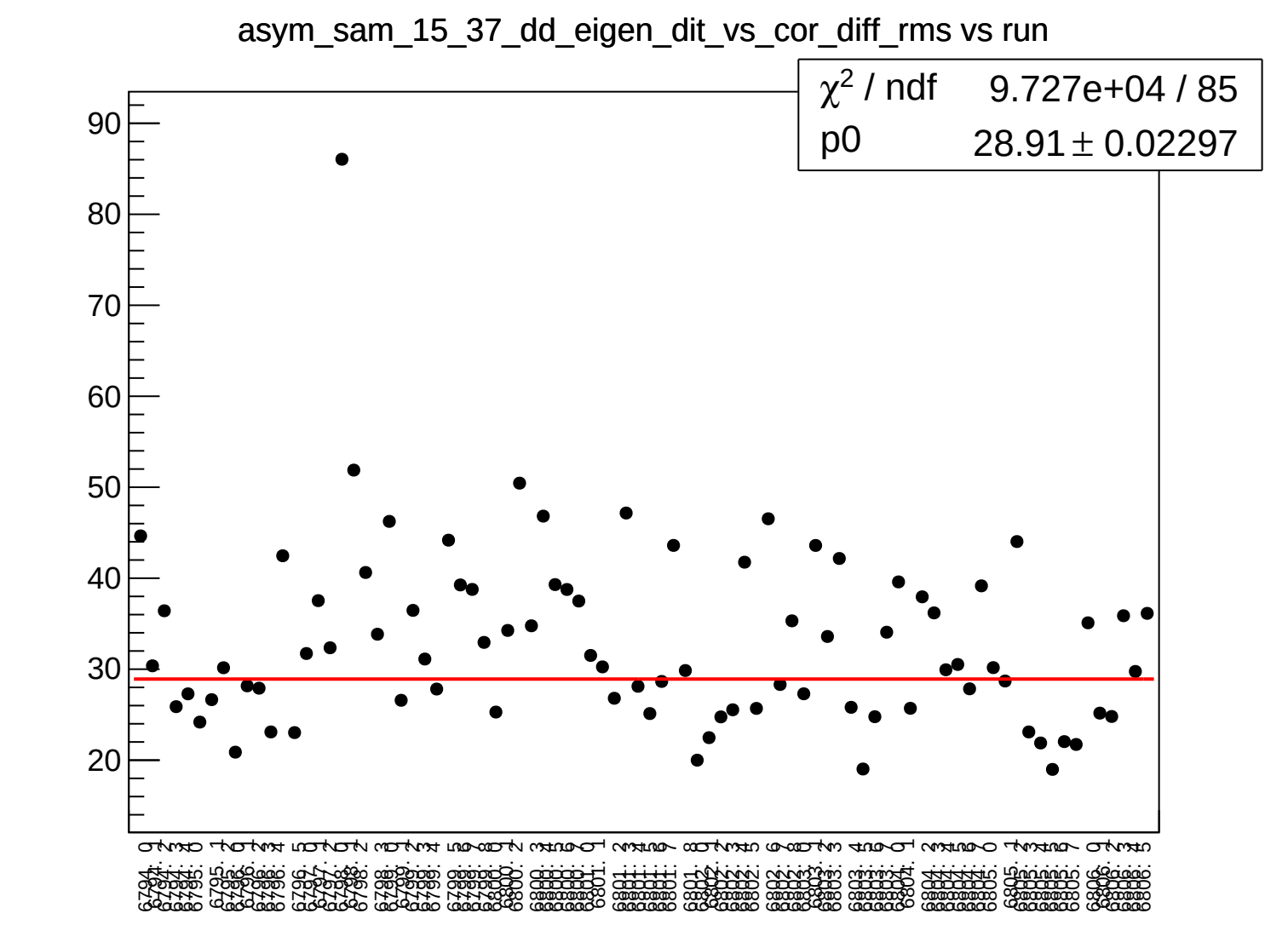

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.727e+04 / 85
p0 28.91 ± 0.02297
90
80
70
60
50
40
30
20

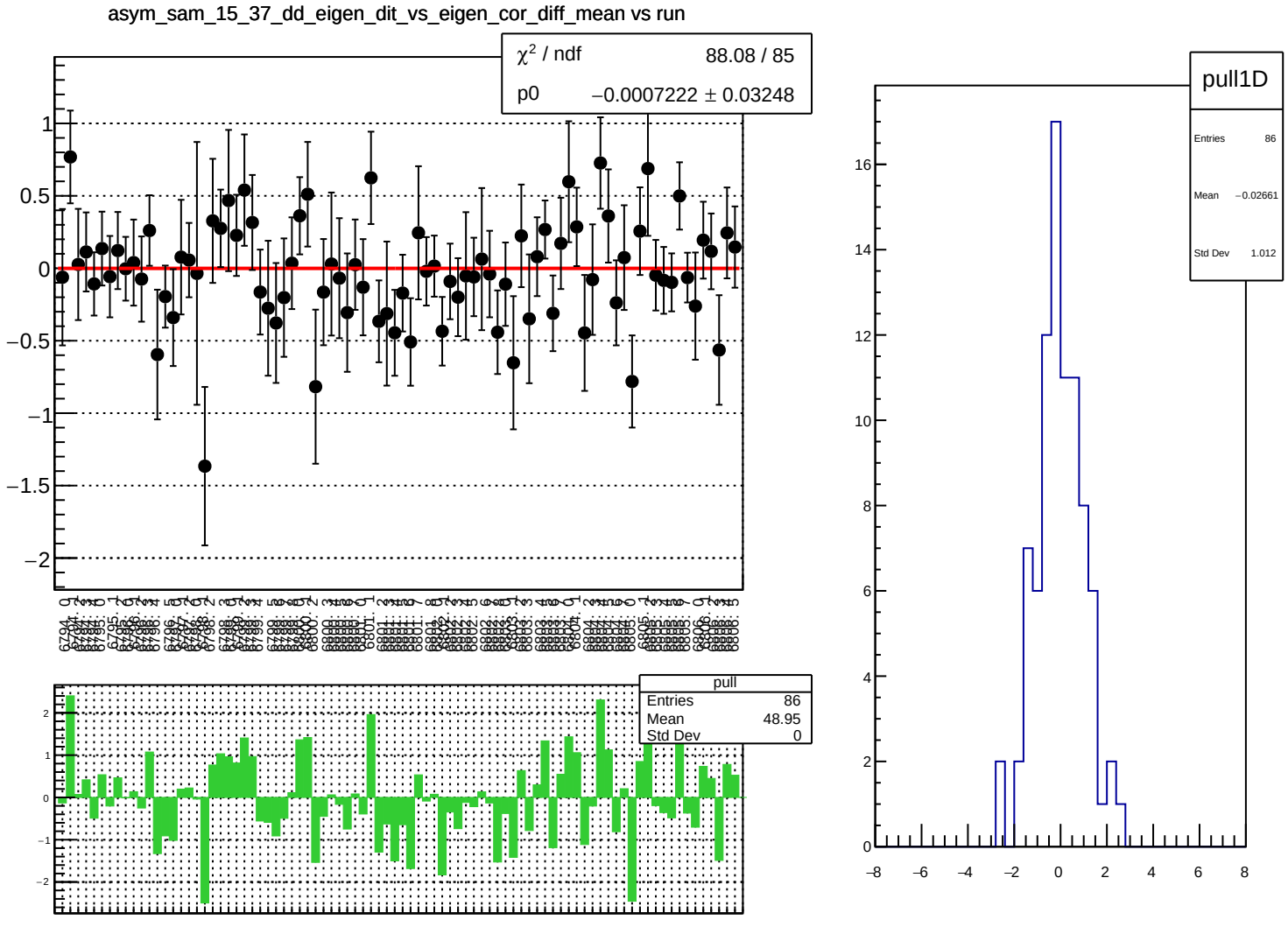

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 74.08 / 85
p0 −1.557e−06 ± 1.01e−06
pull
Entries 86
Mean −142.6
Std Dev 0
pull1D
Entries 86
Mean −0.01778
Std Dev 0.928

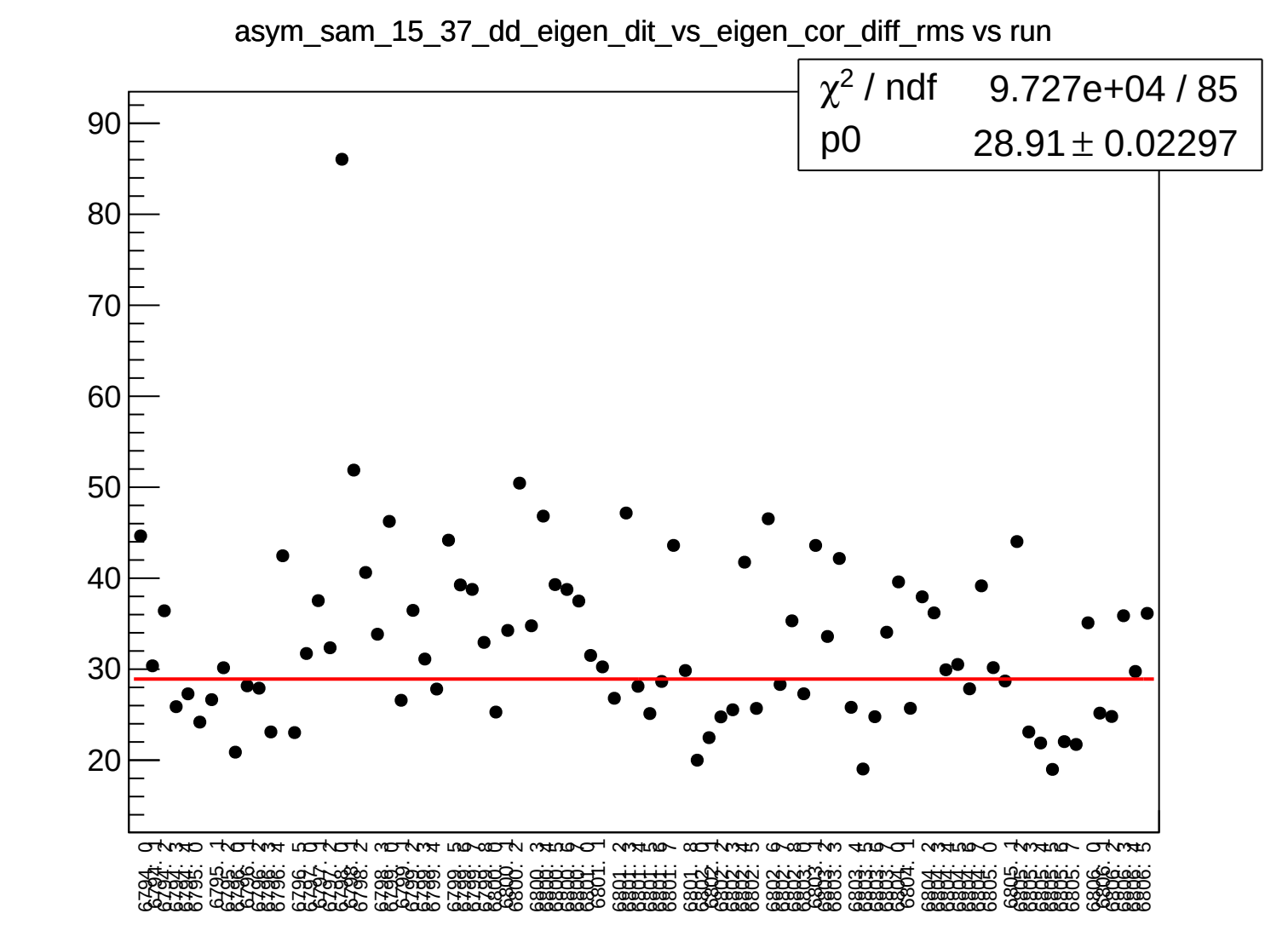

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2795 / 85
p0 0.0009257 ± 7.143e−07
0.00105
0.001
0.00095
0.0009
0.00085

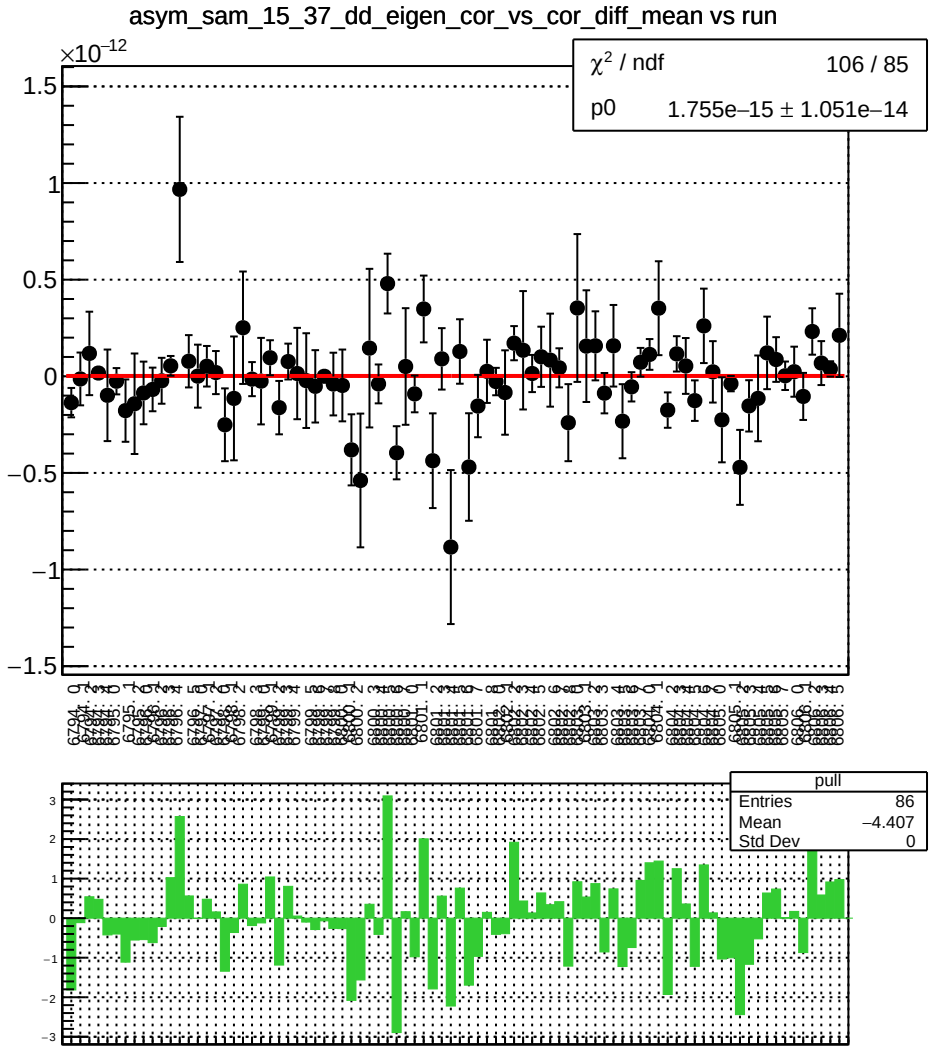

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.08 / 85
p0 −0.0007222 ± 0.03248
pull
Entries 86
Mean 48.95
Std Dev 0

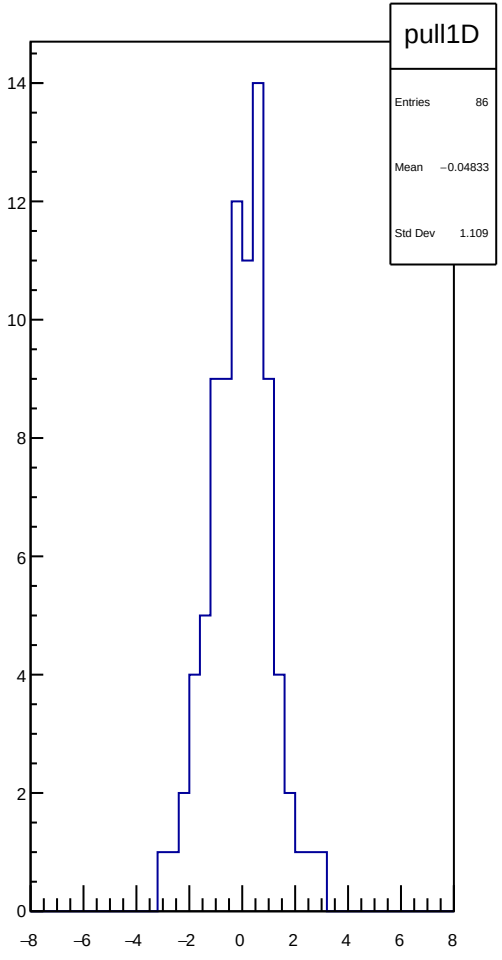

pull1D
Entries 86
Mean −0.02661
Std Dev 1.012

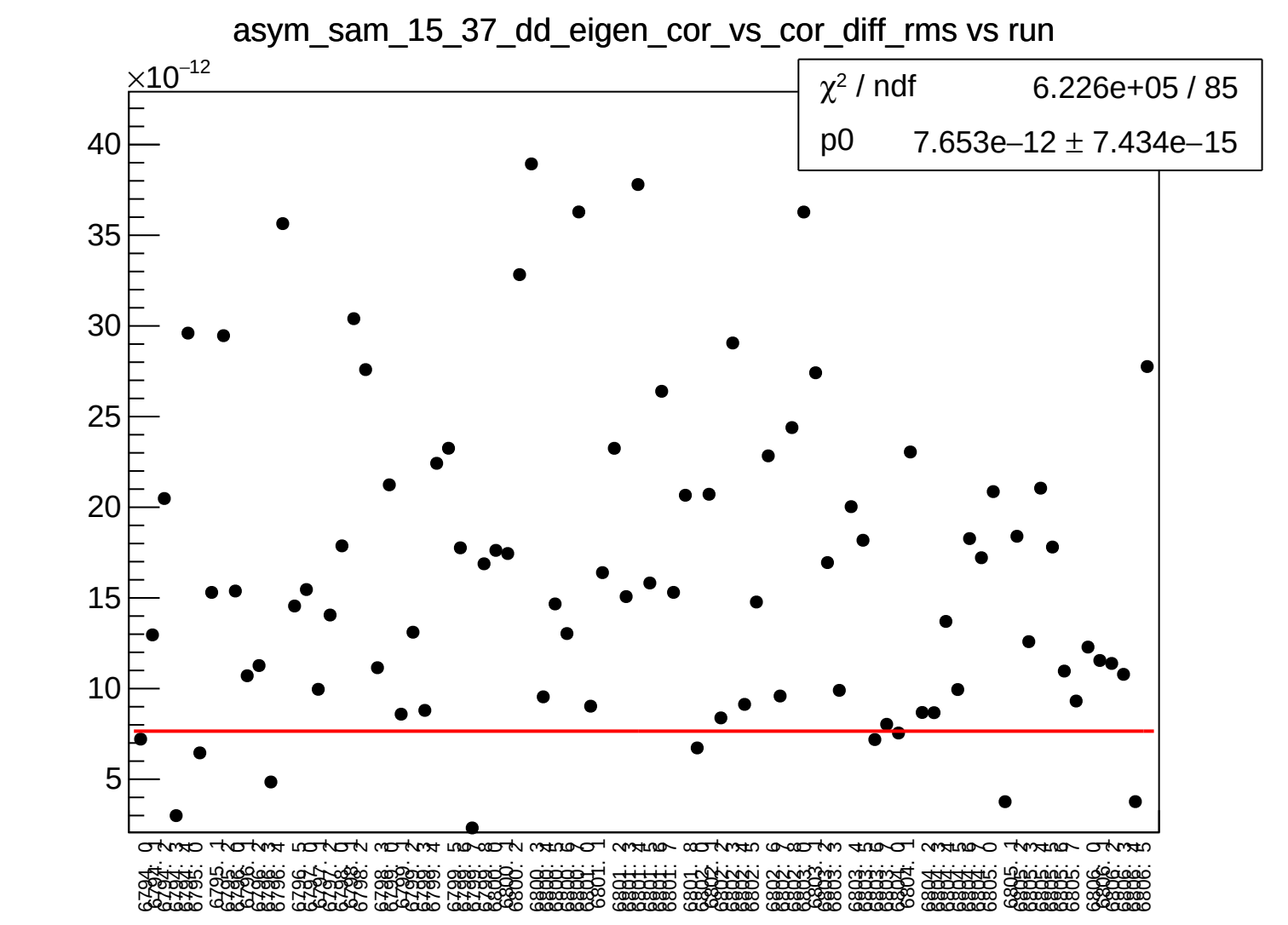

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.727e+04 / 85
p0 28.91 ± 0.02297
90
80
70
60
50
40
30
20

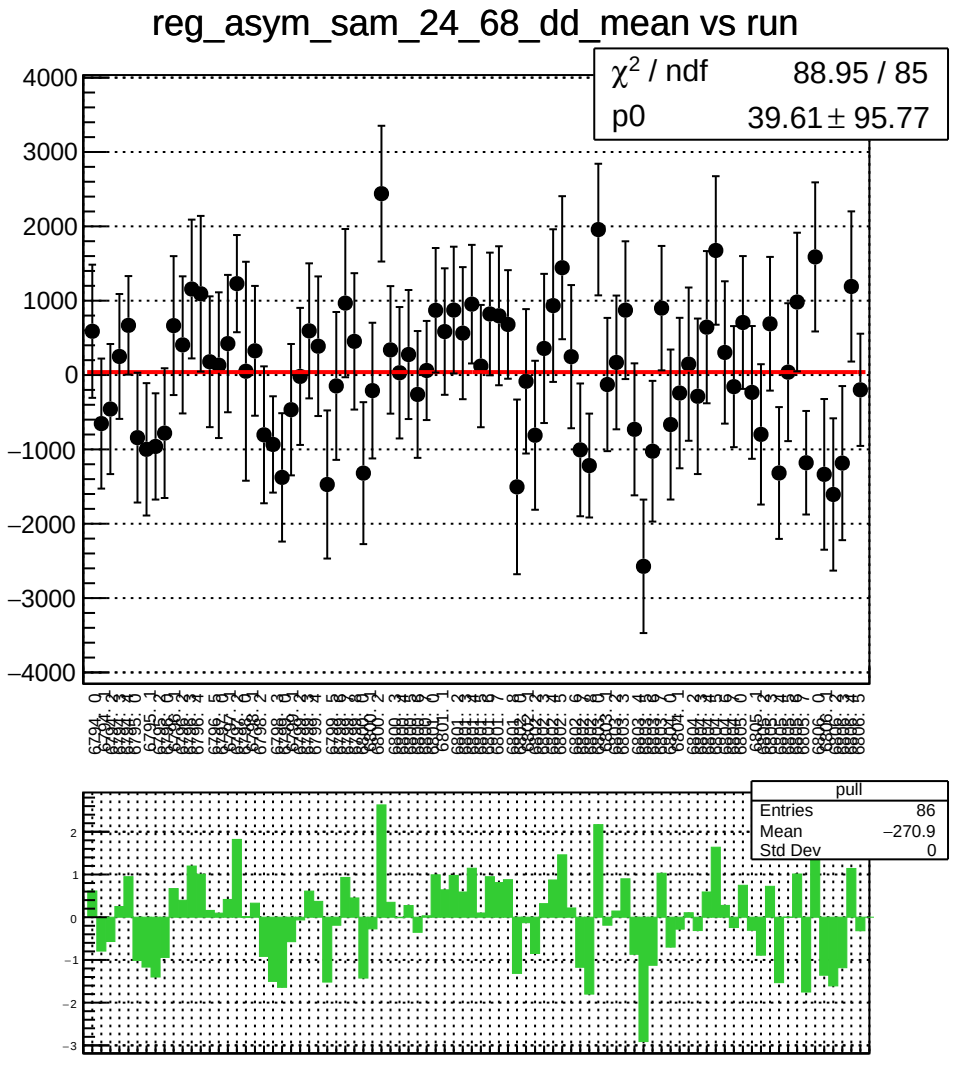

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.08 / 85
p0 −0.0007222 ± 0.03248
pull
Entries 86
Mean 48.95
Std Dev 0
pull1D
Entries 86
Mean −0.02661
Std Dev 1.012

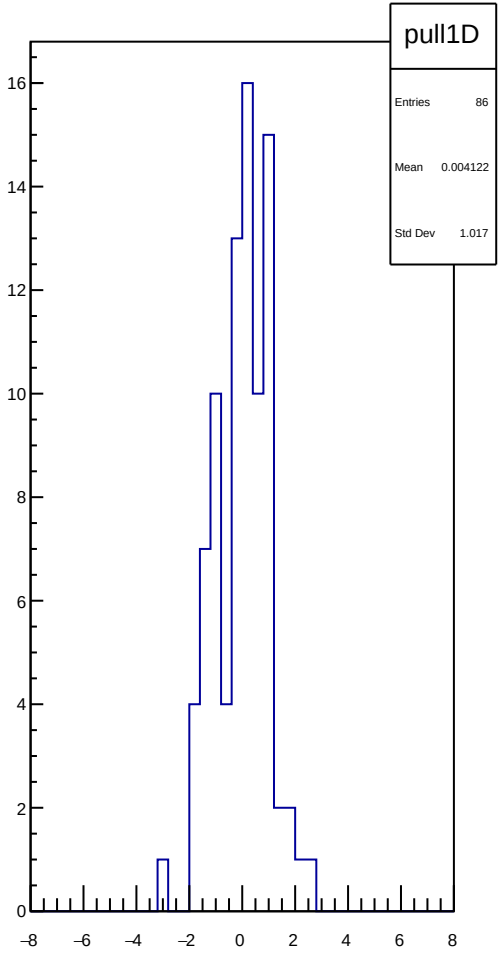

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.727e+04 / 85
p0 28.91 ± 0.02297
90
80
70
60
50
40
30
20

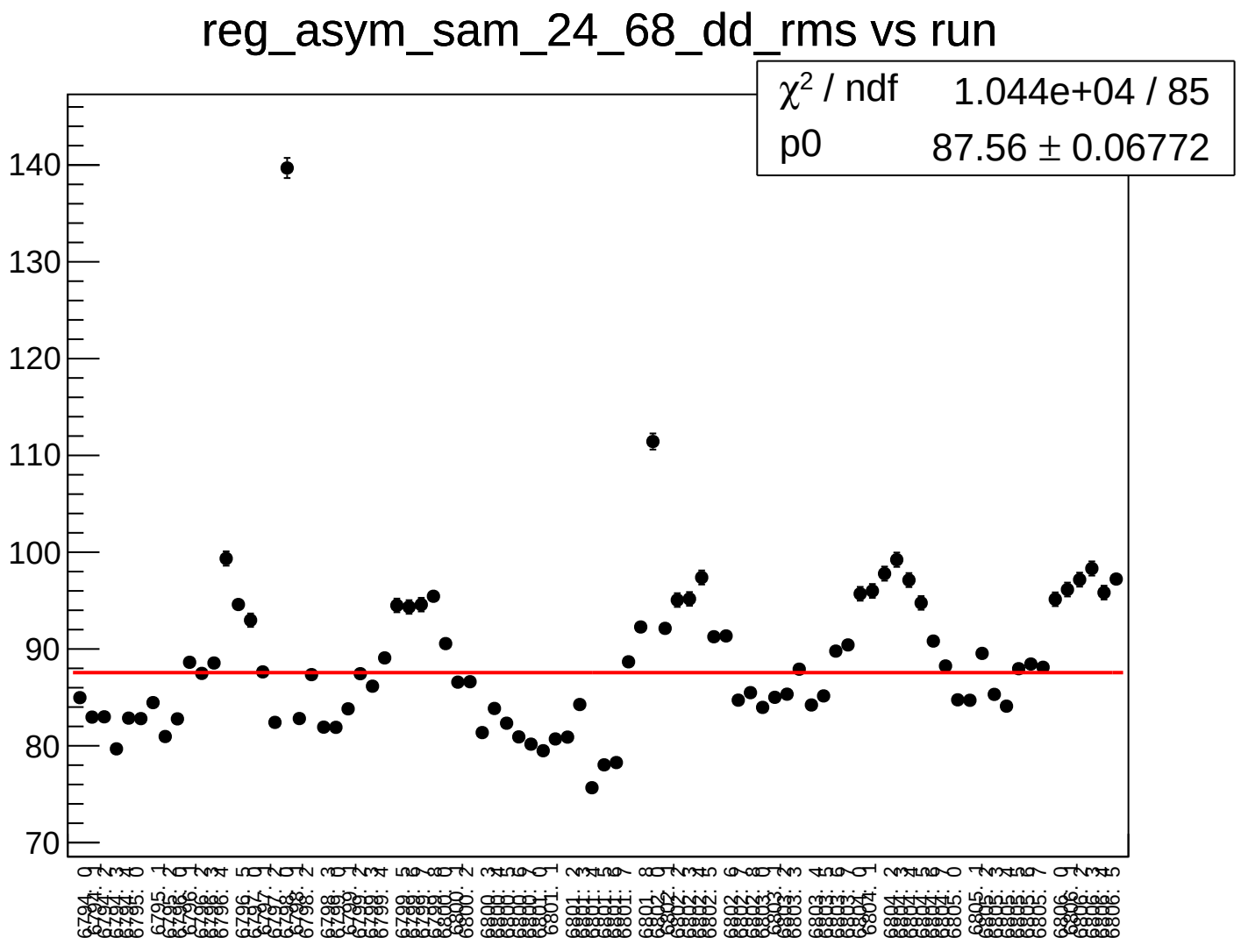

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 106 / 85
p0 1.755e−15 ± 1.051e−14
pull
Entries 86
Mean −4.407
Std Dev 0

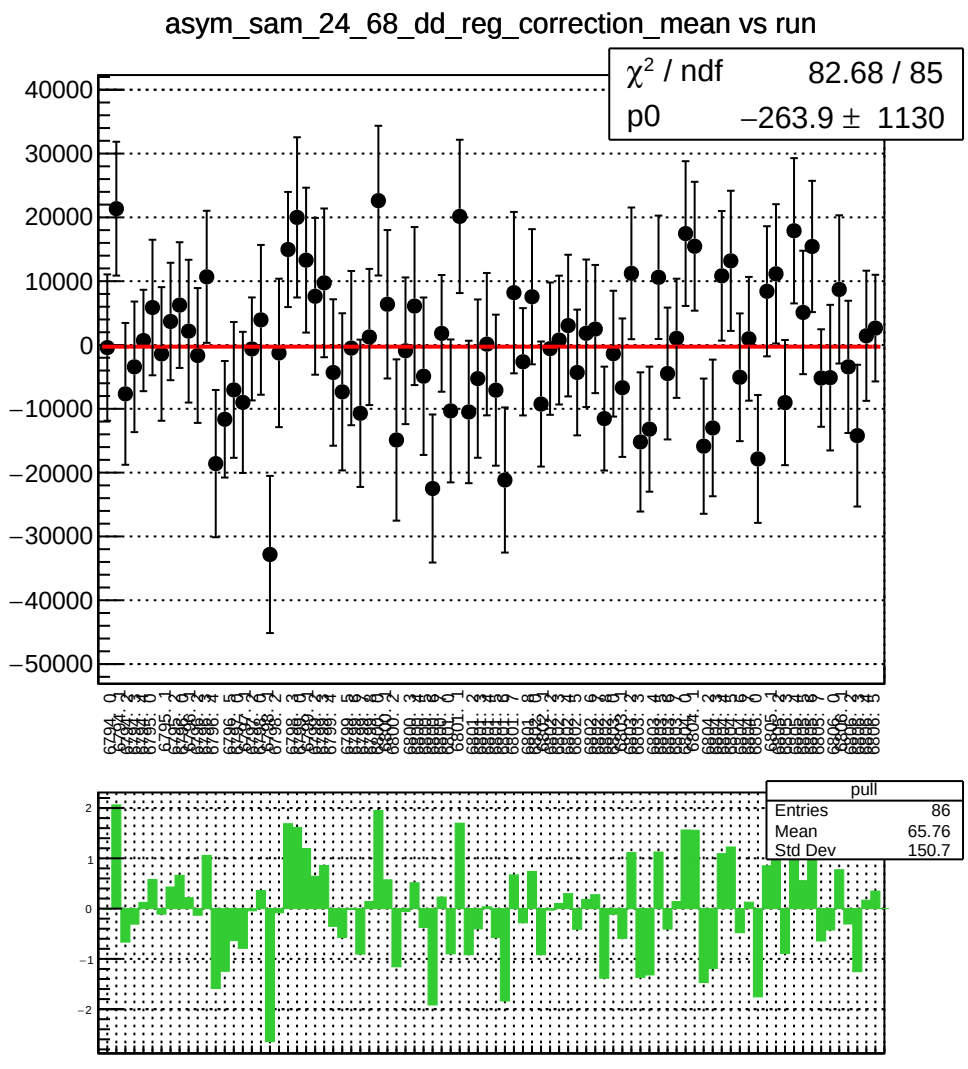

pull1D
Entries 86
Mean −0.04833
Std Dev 1.109

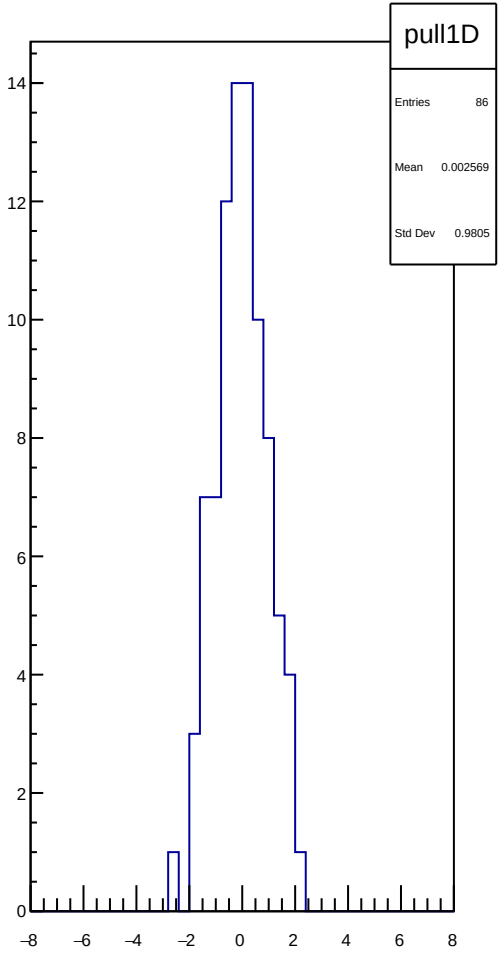

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.226e+05 / 85
p0 7.653e−12 ± 7.434e−15
40
35
30
25
20
15
10
5

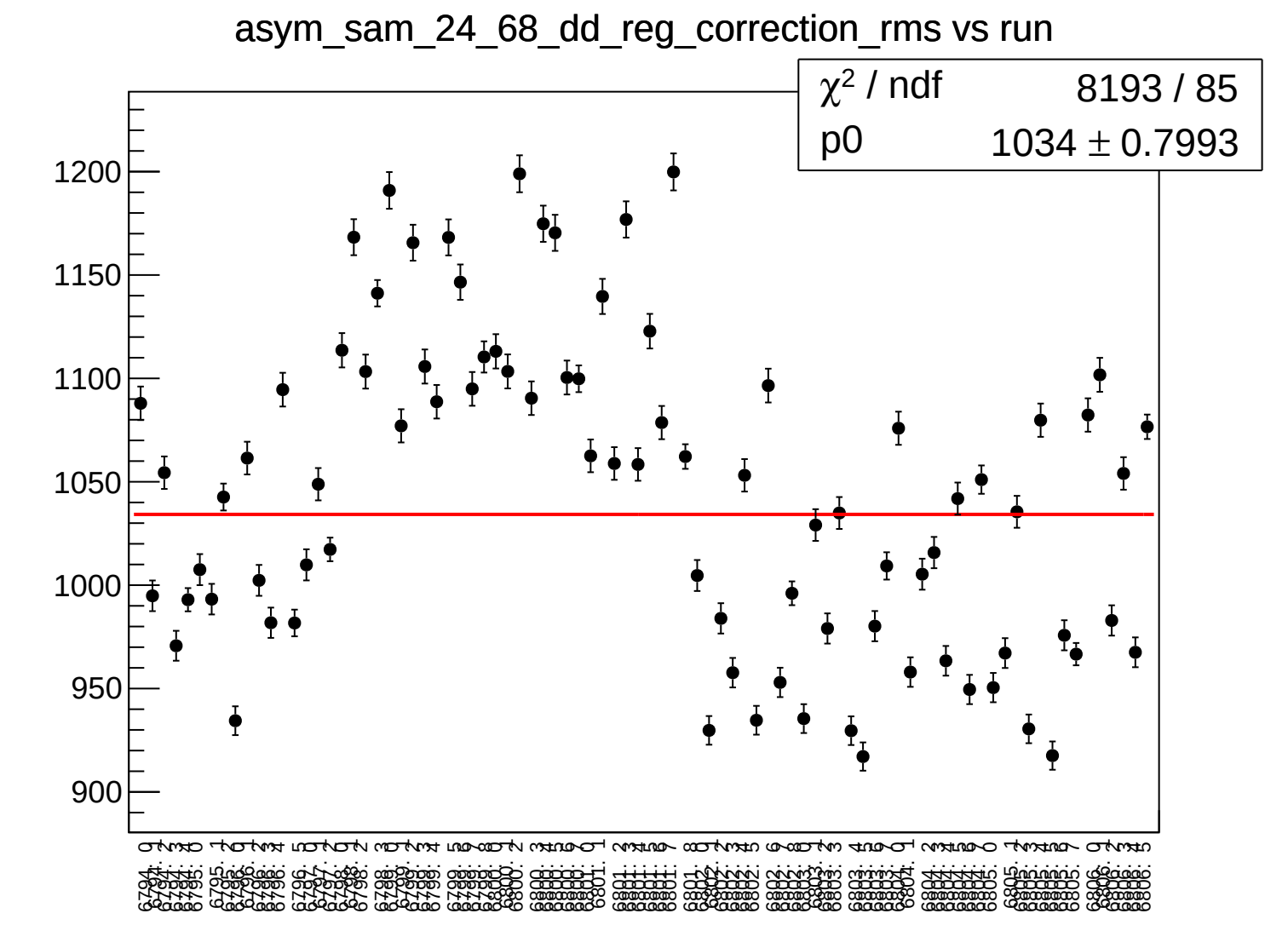

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.95 / 85
p0 39.61 ± 95.77
pull
Entries 86
Mean −270.9
Std Dev 0

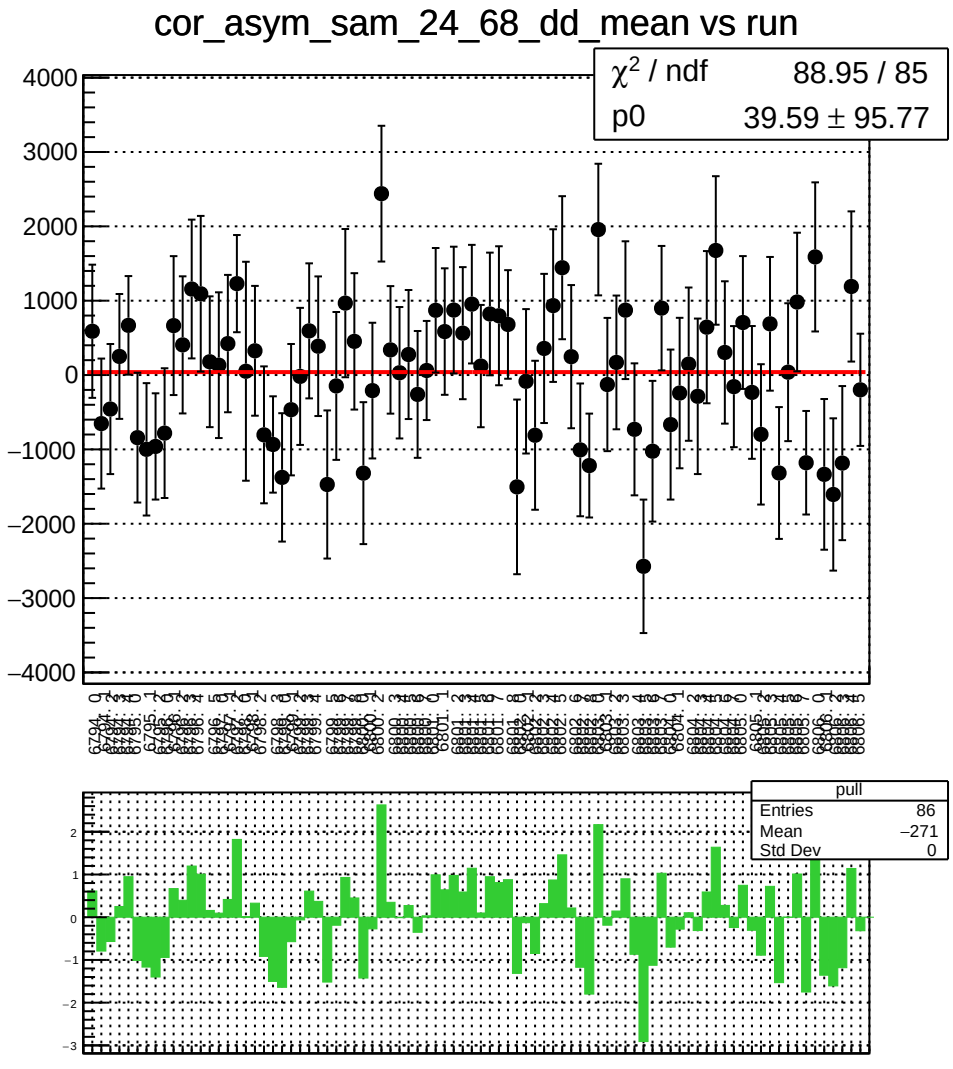

pull1D
Entries 86
Mean 0.004122
Std Dev 1.017

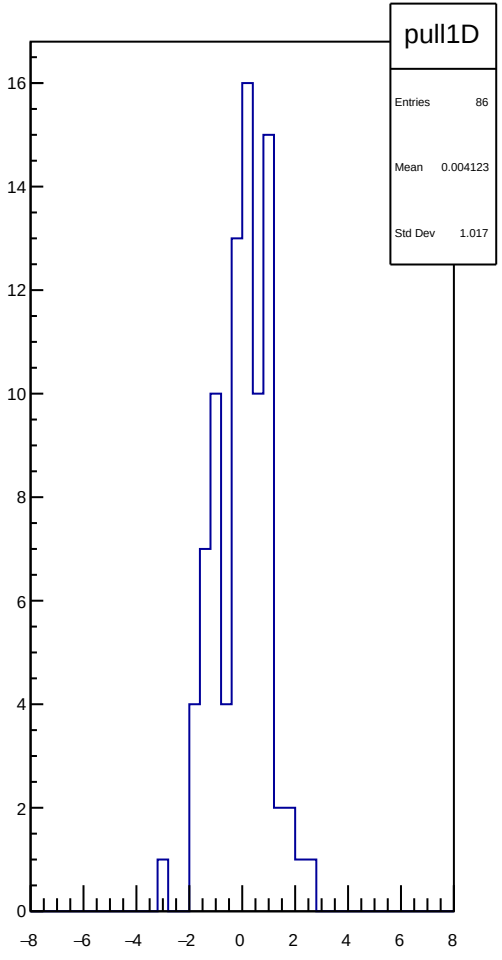

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.044e+04 / 85
p0 87.56 ± 0.06772
140
130
120
110
100
90
80
70

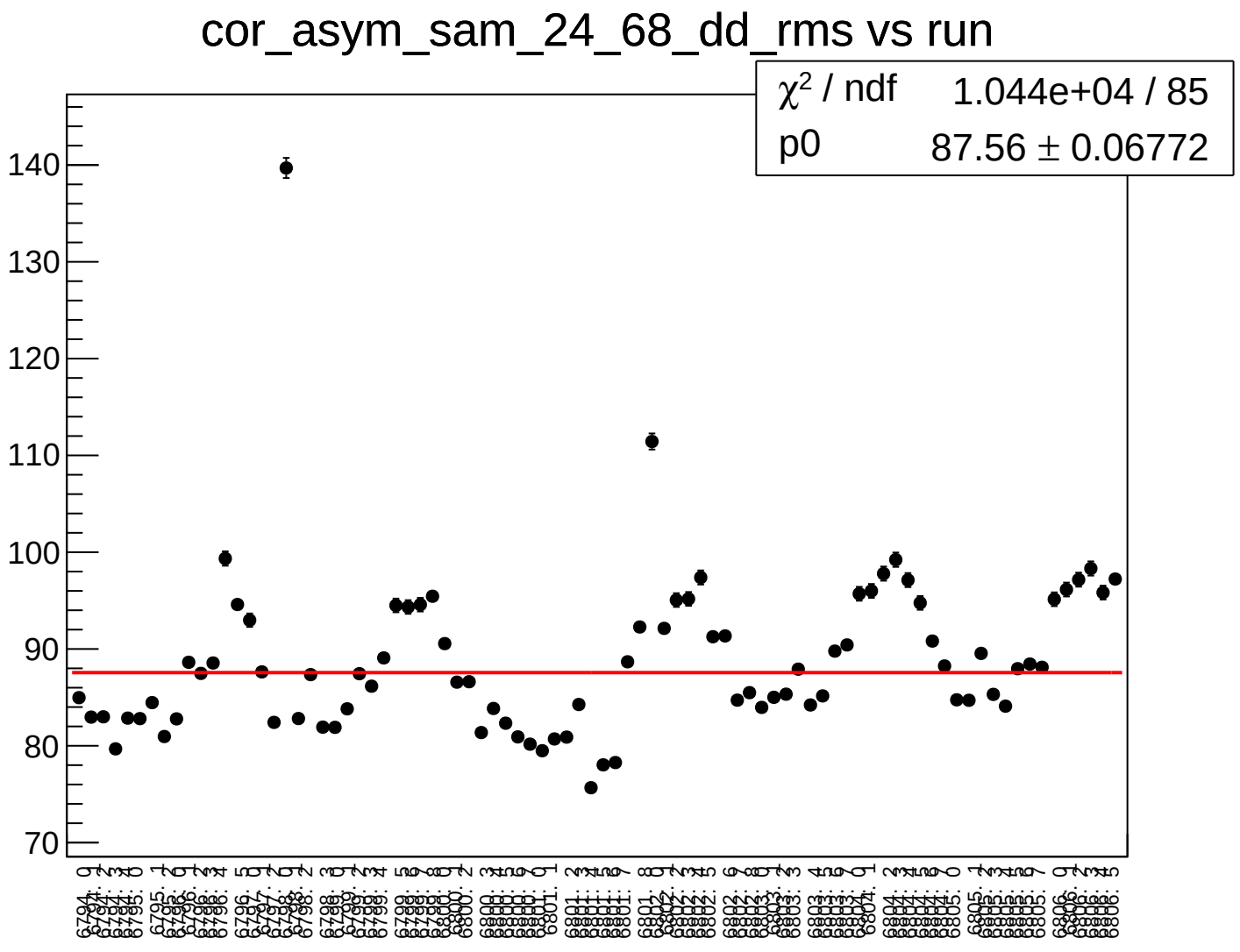

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 82.68 / 85
p0 −263.9 ± 1130
pull
Entries 86
Mean 65.76
Std Dev 150.7

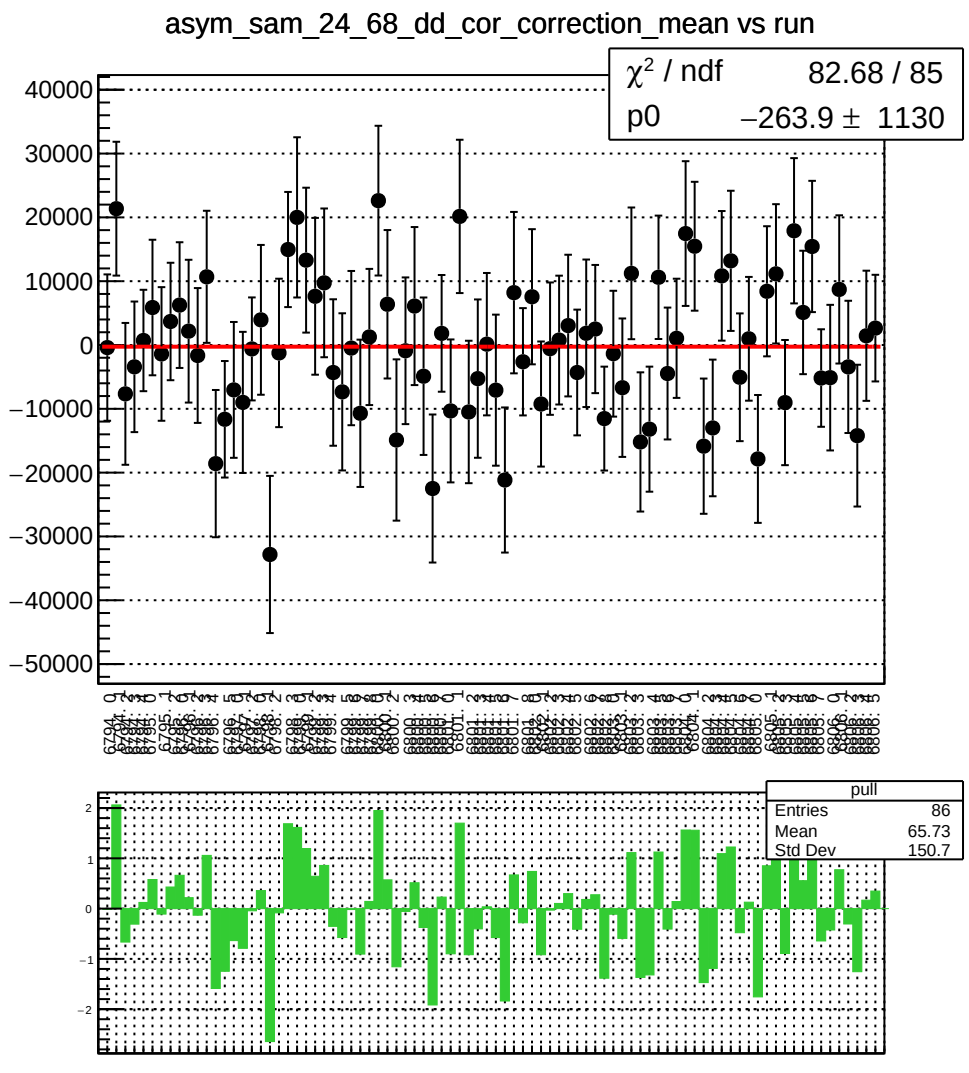

pull1D
Entries 86
Mean 0.002569
Std Dev 0.9805

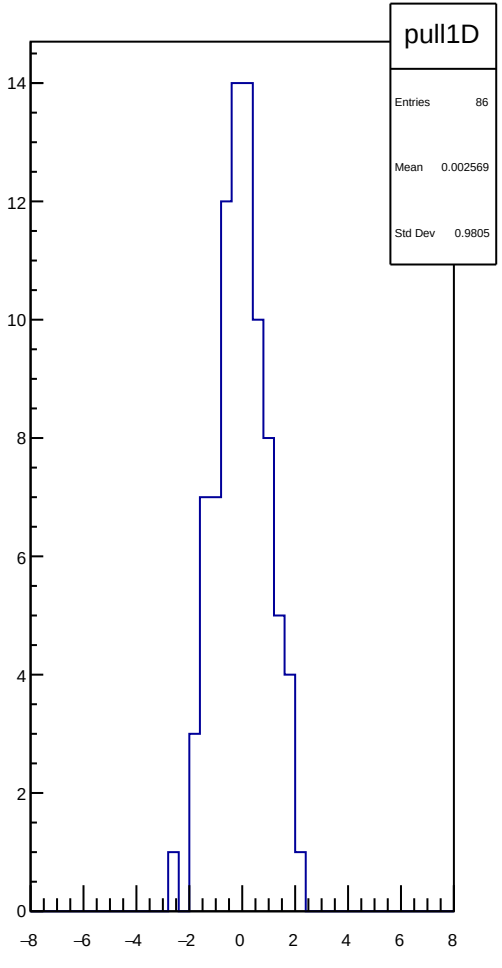

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 8193 / 85
p0 1034 ± 0.7993
1200
1150
1100
1050
1000
950
900

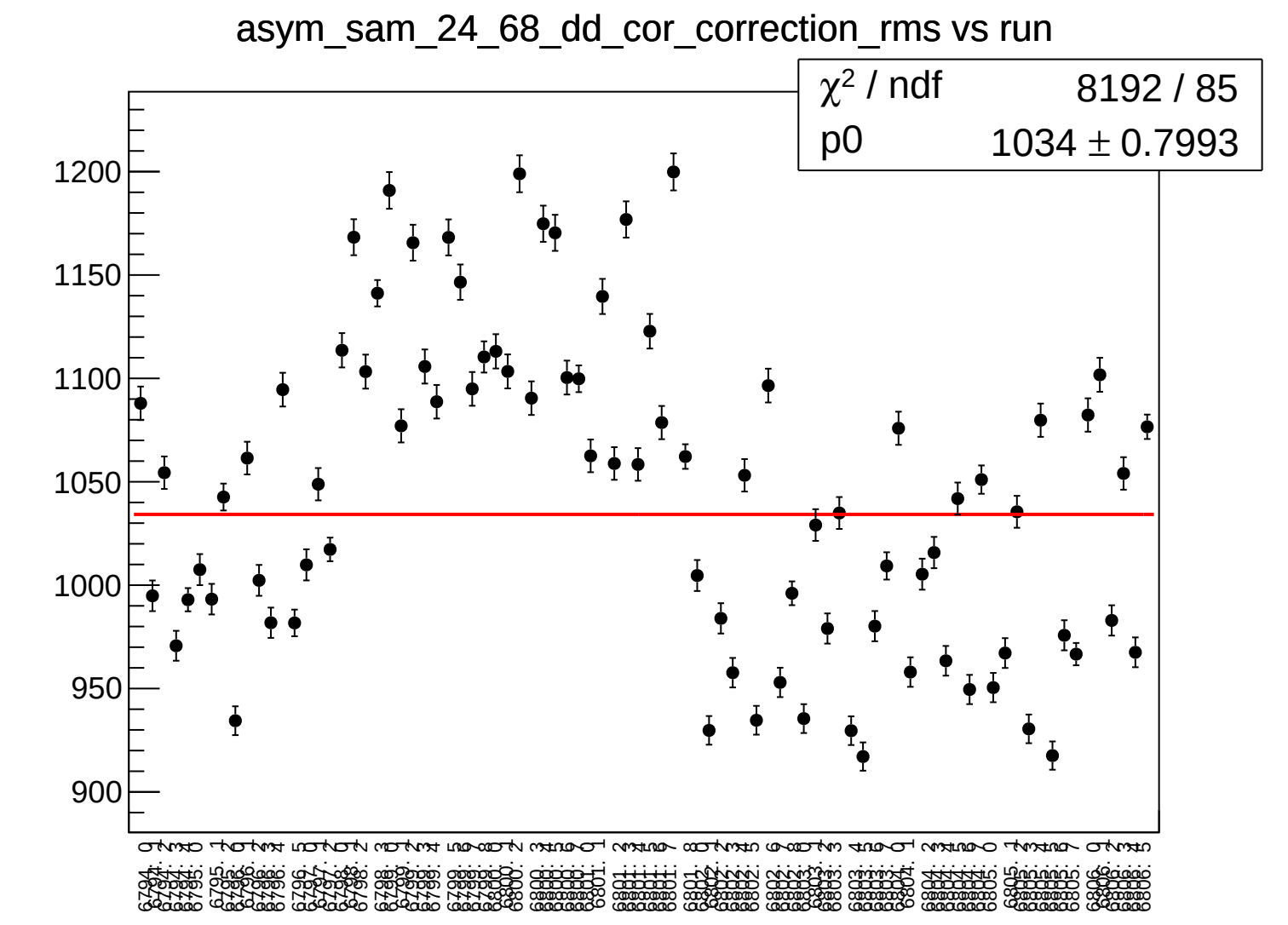

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.95 / 85
p0 39.59 ± 95.77
pull
Entries 86
Mean −271
Std Dev 0

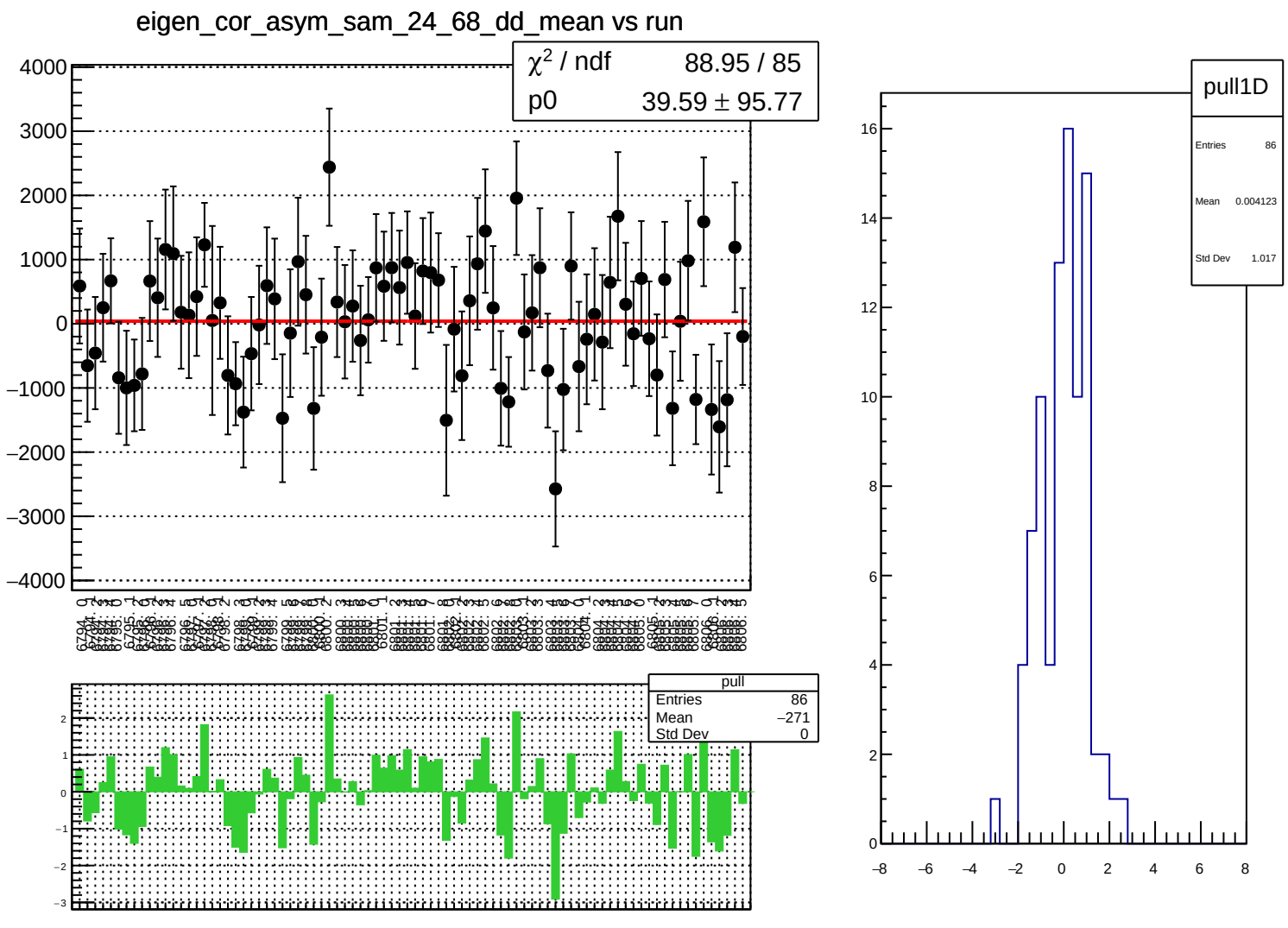

pull1D
Entries 86
Mean 0.004123
Std Dev 1.017

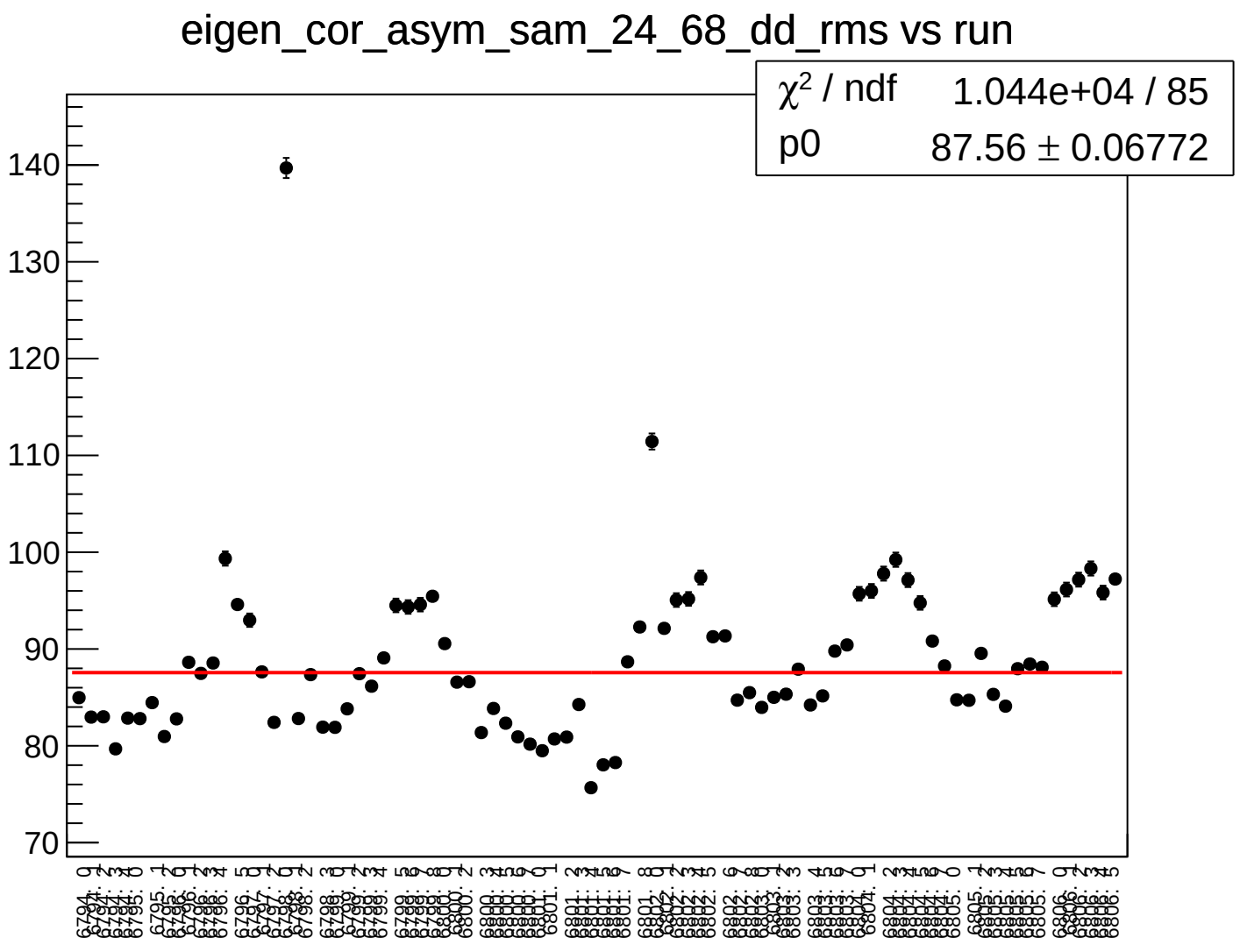

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.044e+04 / 85
p0 87.56 ± 0.06772
140
130
120
110
100
90
80
70

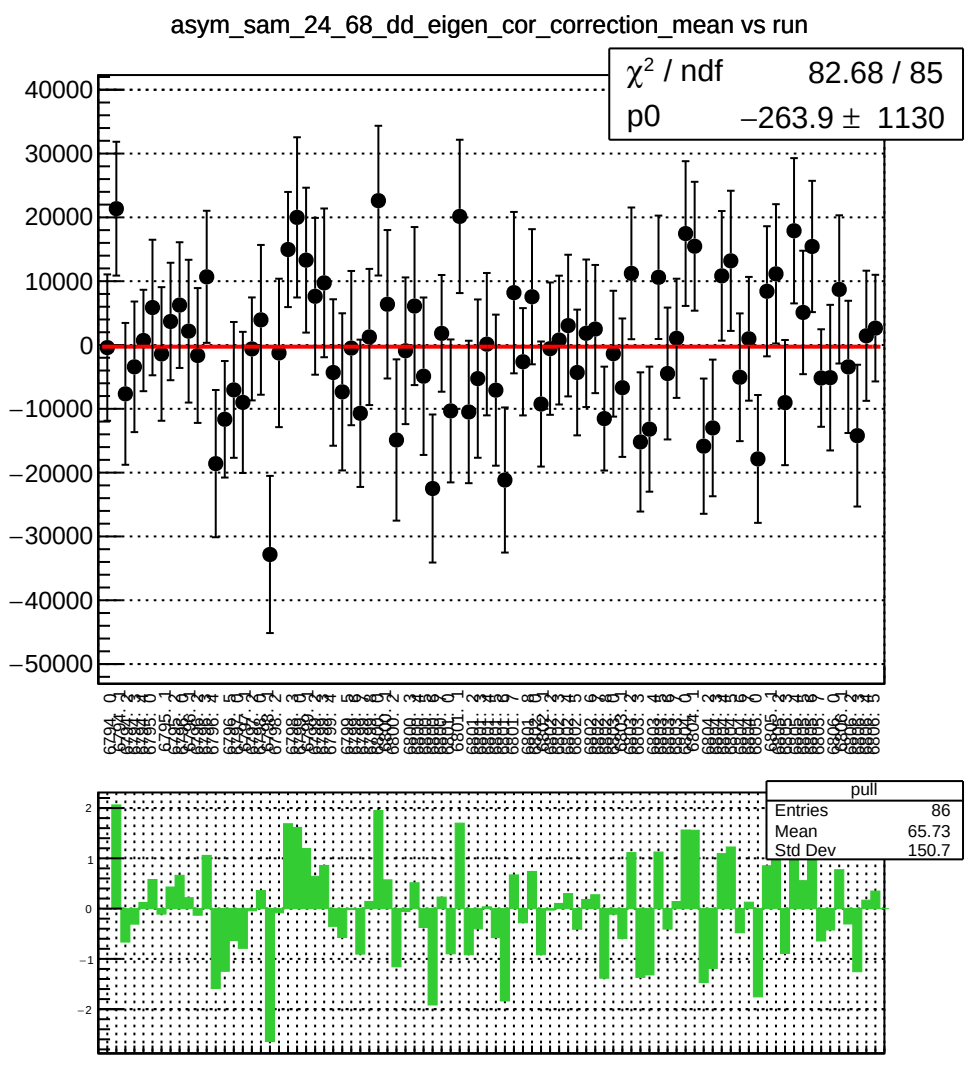

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 82.68 / 85
p0 −263.9 ± 1130
pull
Entries 86
Mean 65.73
Std Dev 150.7

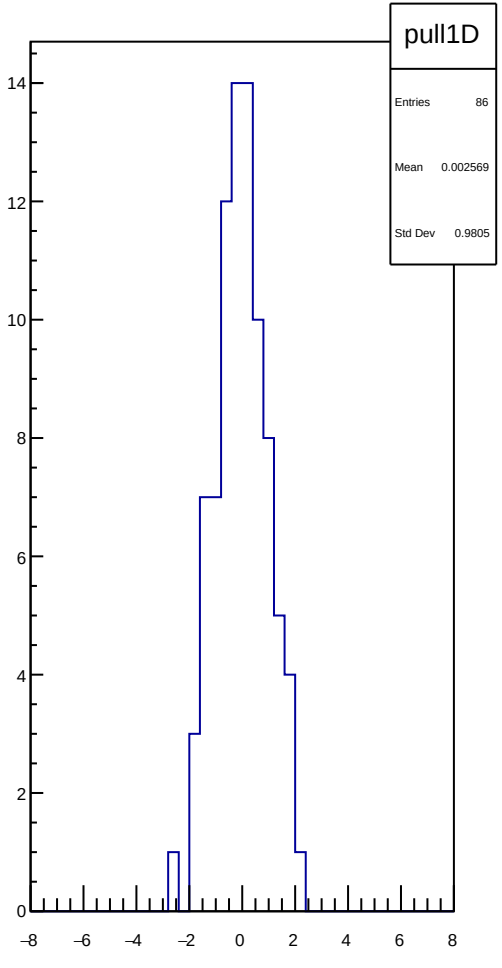

pull1D
Entries 86
Mean 0.002569
Std Dev 0.9805

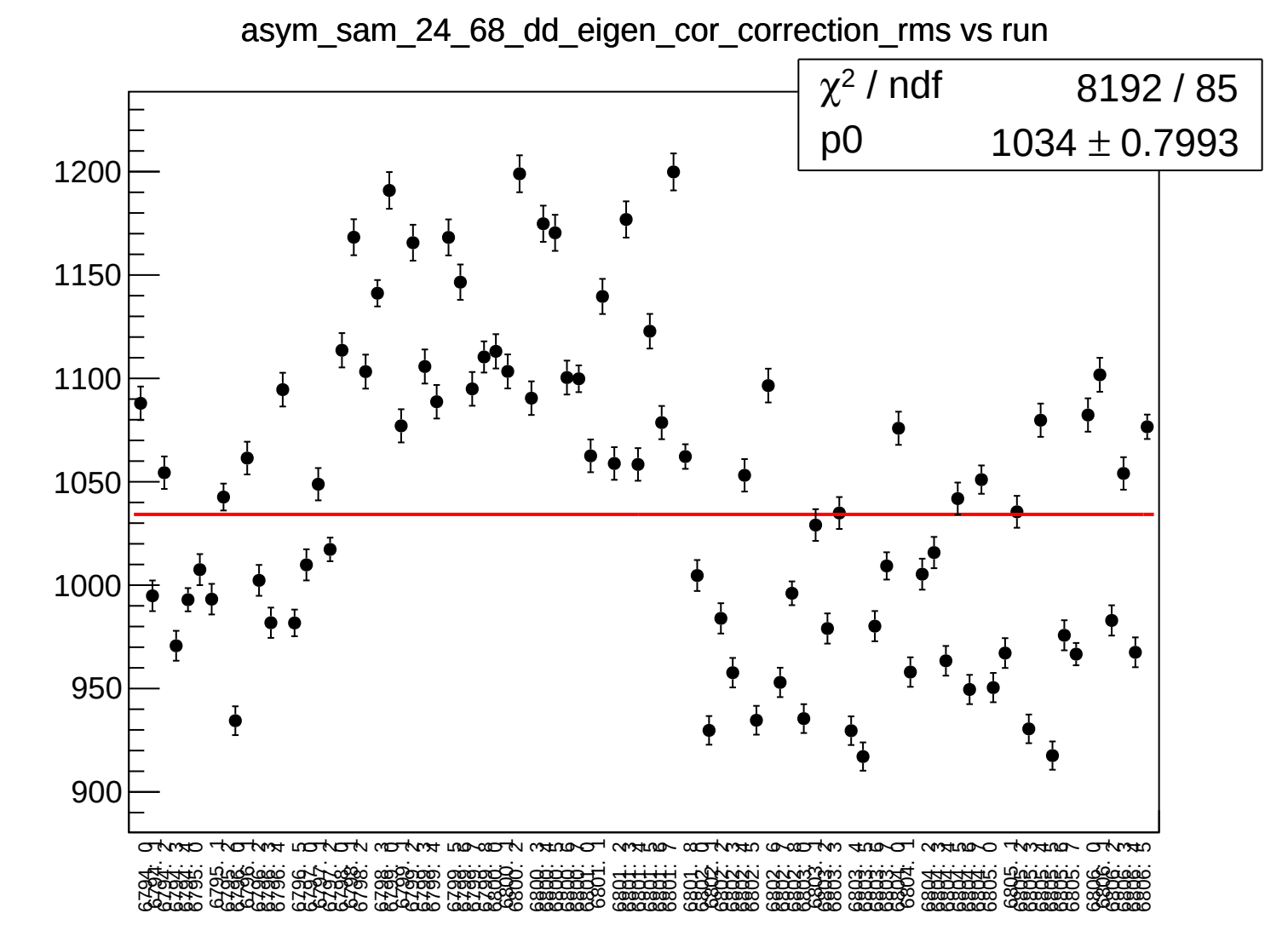

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 8192 / 85
p0 1034 ± 0.7993
1200
1150
1100
1050
1000
950
900

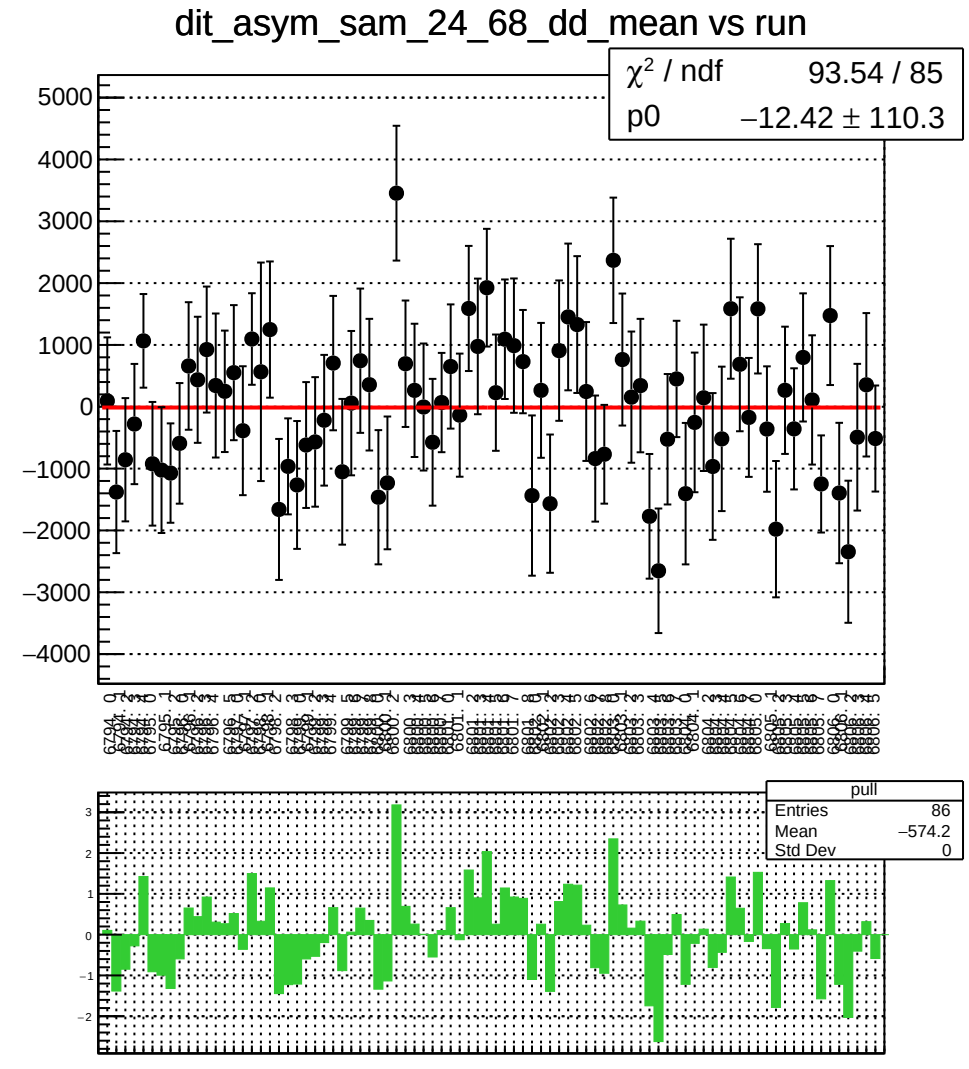

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 88.95 / 85
p0 39.59 ± 95.77
pull
Entries 86
Mean −271
Std Dev 0
pull1D
Entries 86
Mean 0.004123
Std Dev 1.017

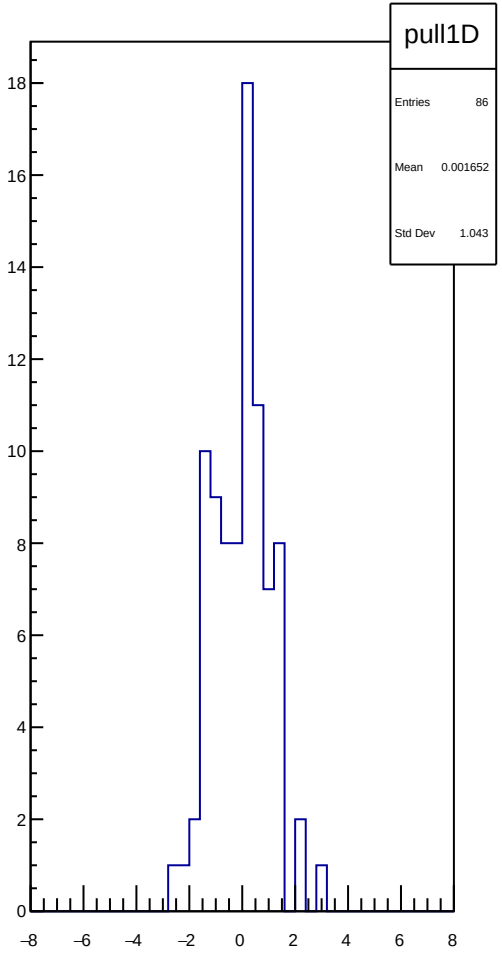

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.044e+04 / 85
p0 87.56 ± 0.06772
140
130
120
110
100
90
80
70

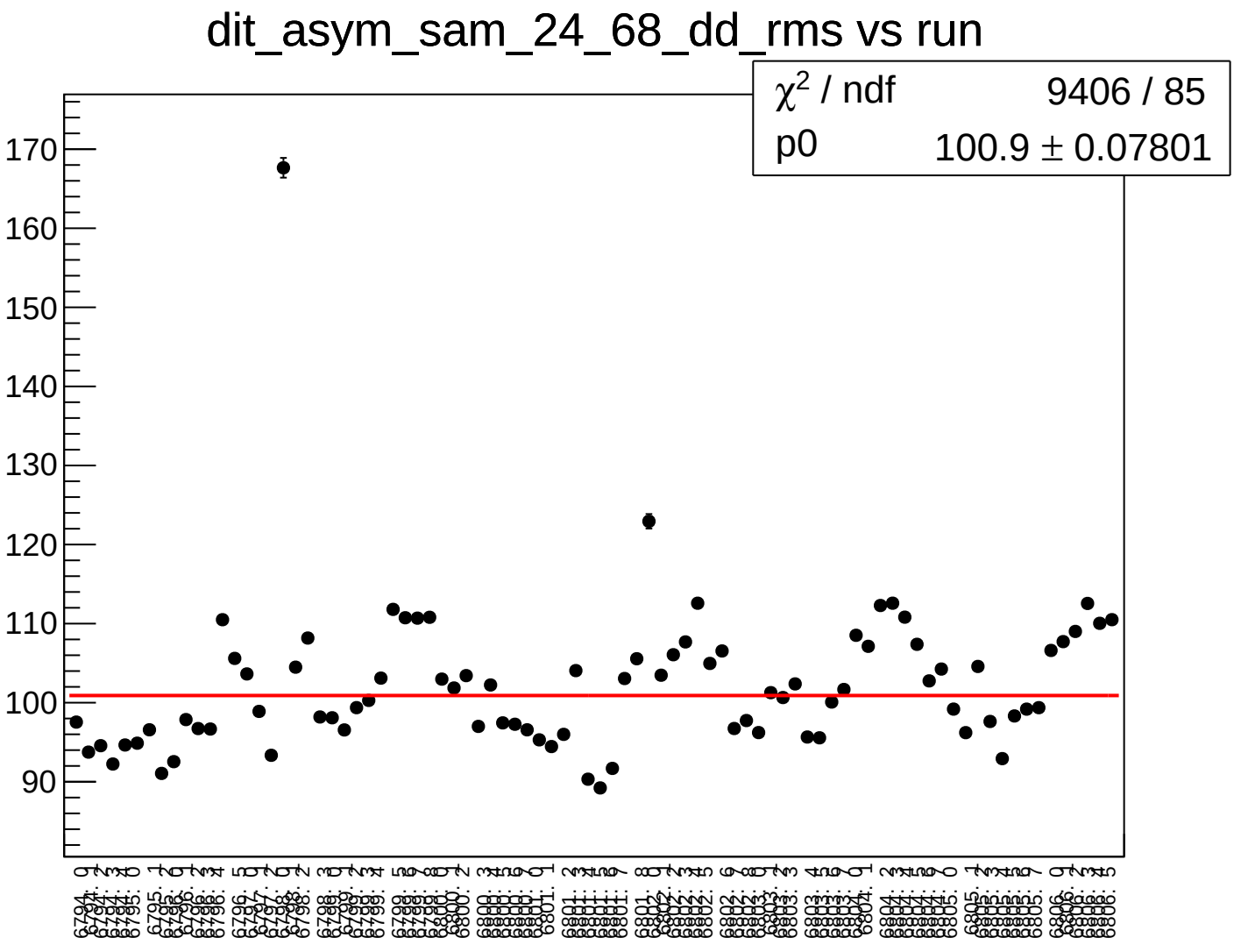

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.68 / 85
p0 −263.9 ± 1130
pull
Entries 86
Mean 65.73
Std Dev 150.7

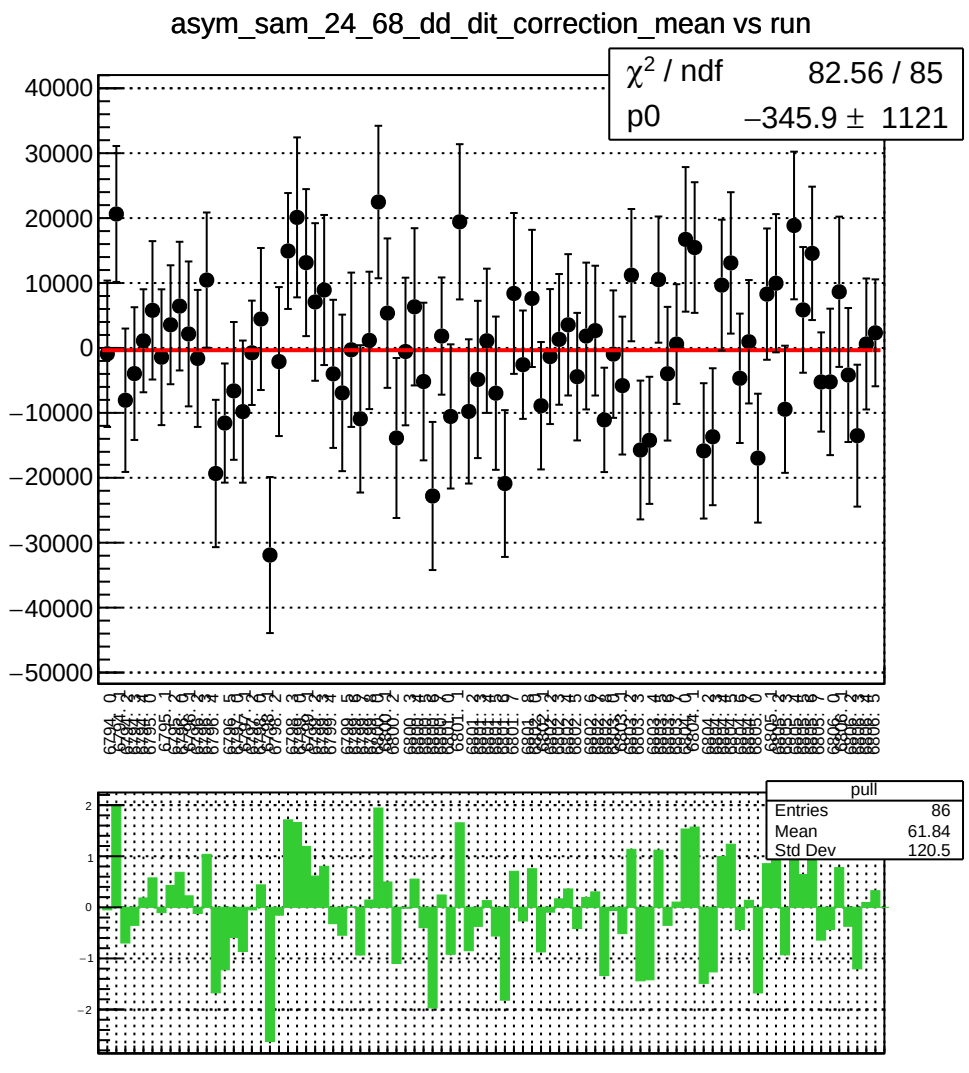

pull1D
Entries 86
Mean 0.002569
Std Dev 0.9805

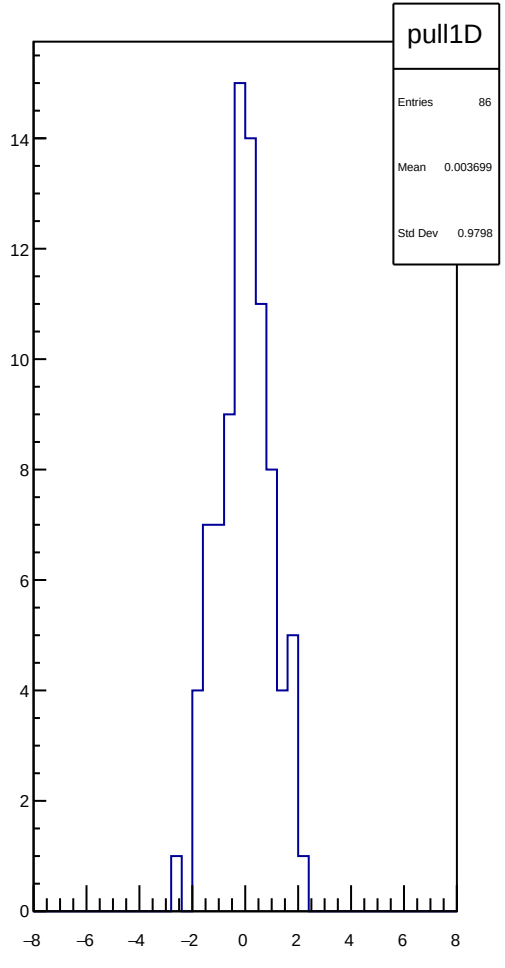

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 8192 / 85
p0 1034 ± 0.7993
1200
1150
1100
1050
1000
950
900

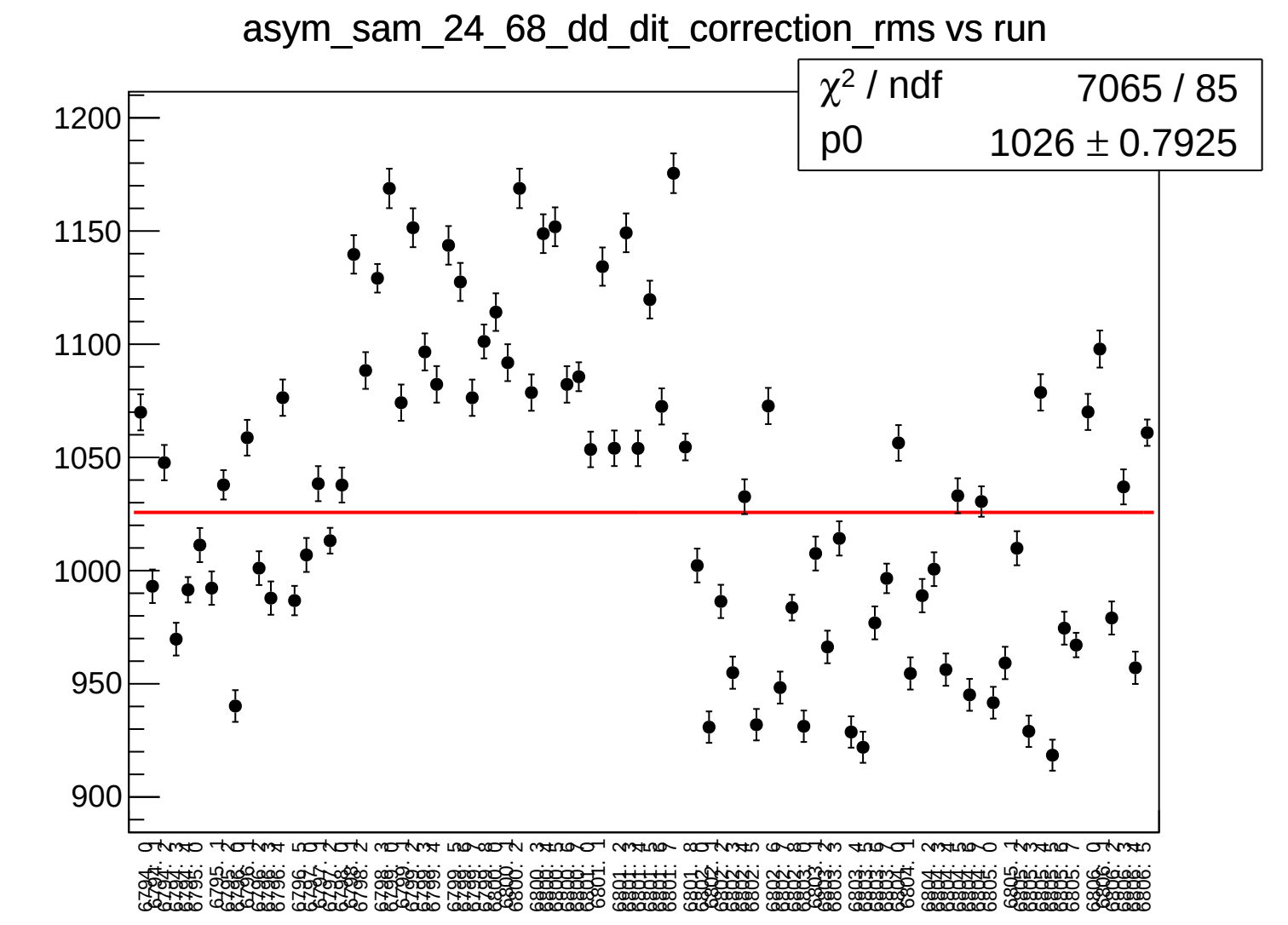

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.54 / 85
p0 −12.42 ± 110.3
pull
Entries 86
Mean −574.2
Std Dev 0

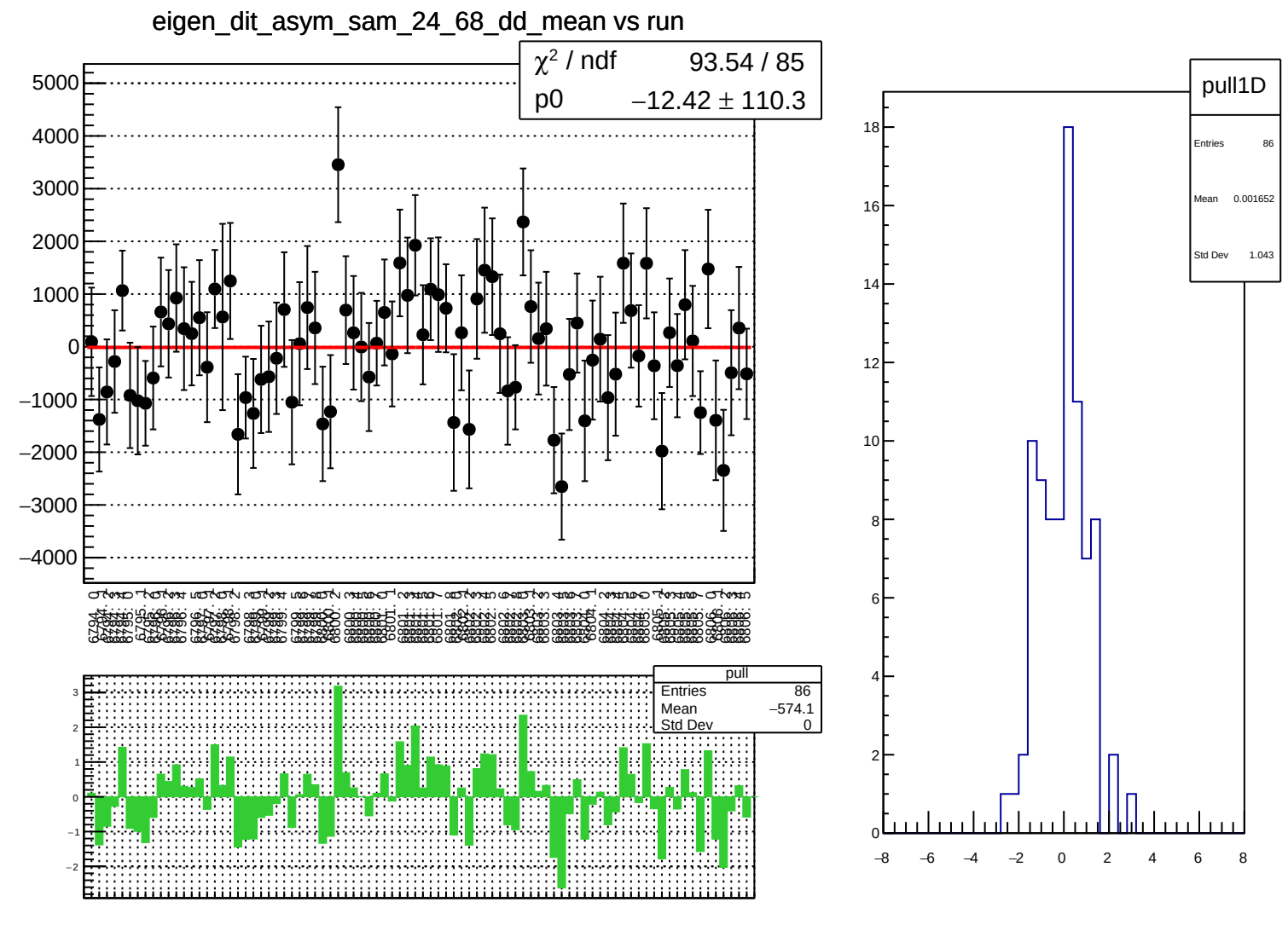

pull1D
Entries 86
Mean 0.001652
Std Dev 1.043

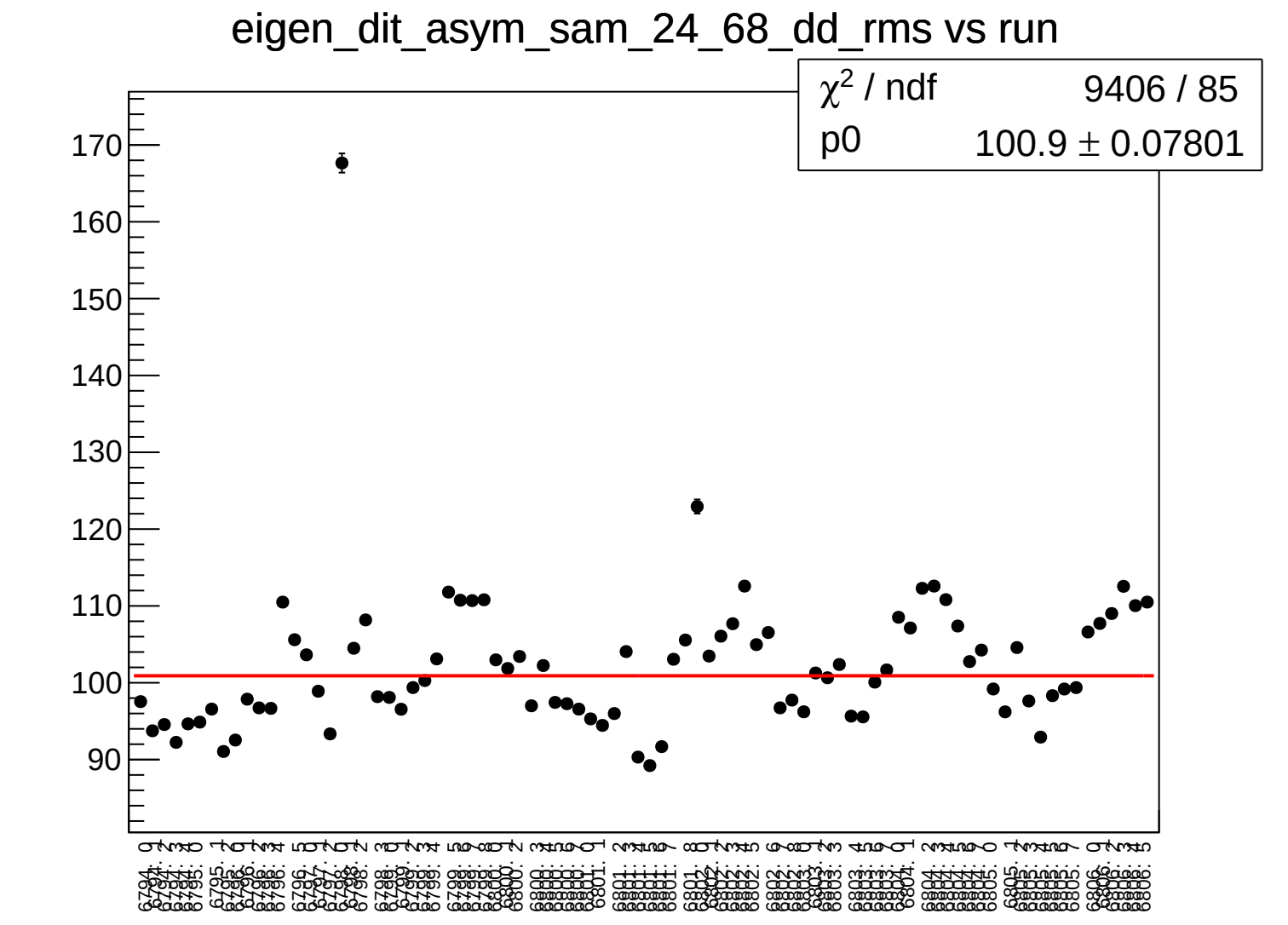

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9406 / 85
p0 100.9 ± 0.07801
170
160
150
140
130
120
110
100
90

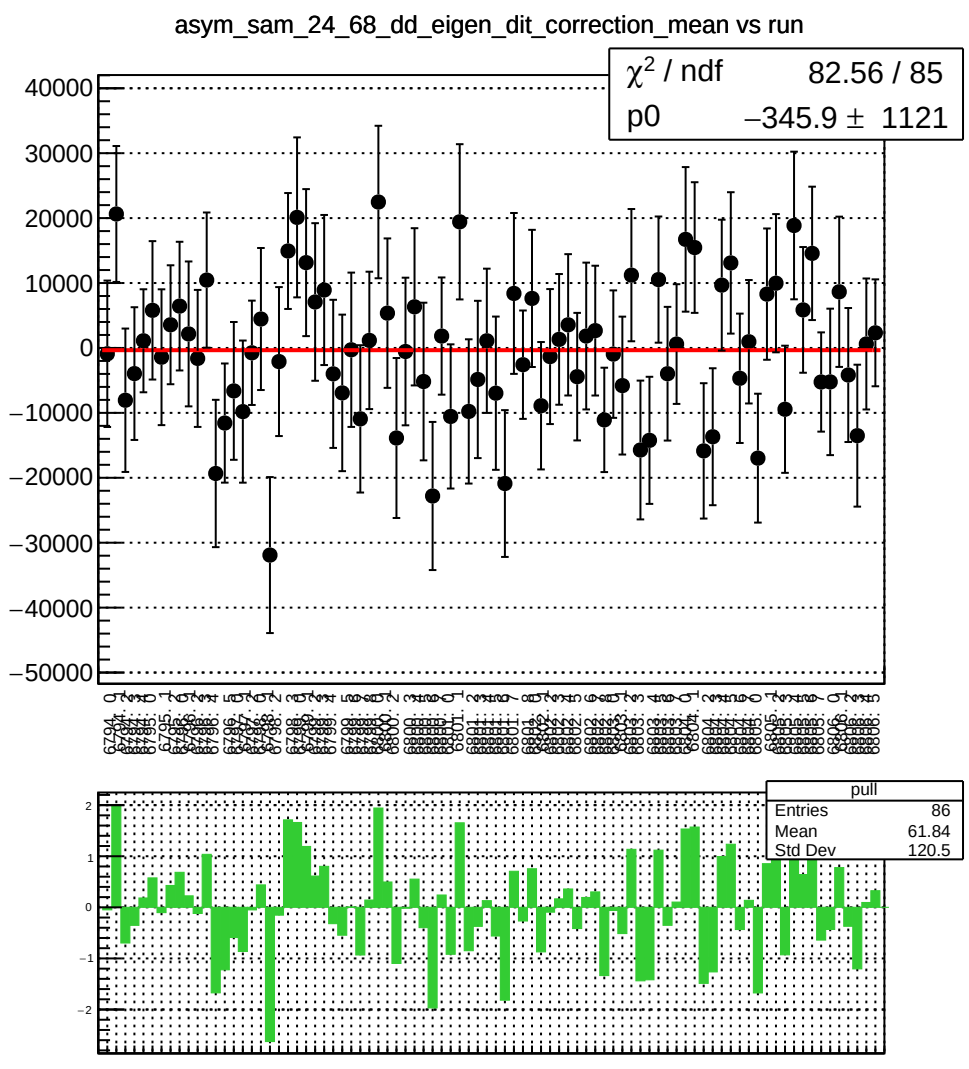

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 82.56 / 85
p0 −345.9 ± 1121
pull
Entries 86
Mean 61.84
Std Dev 120.5

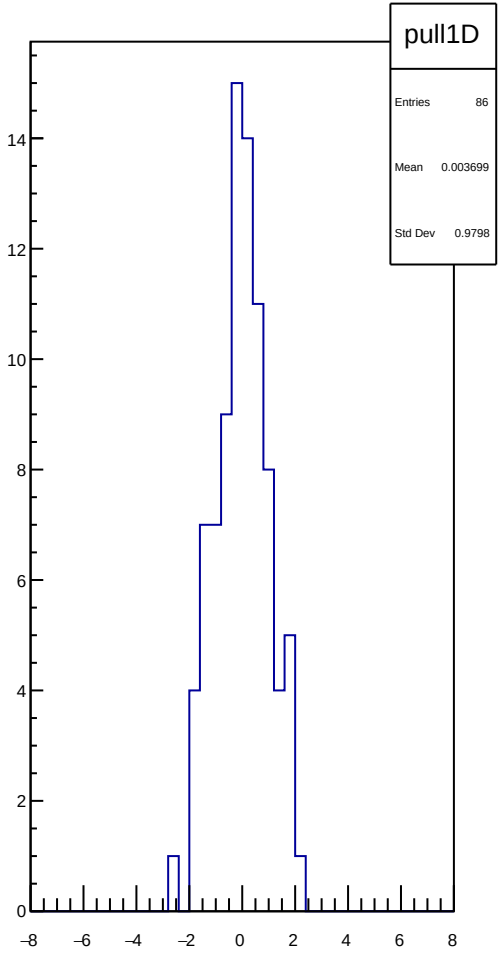

pull1D
Entries 86
Mean 0.003699
Std Dev 0.9798

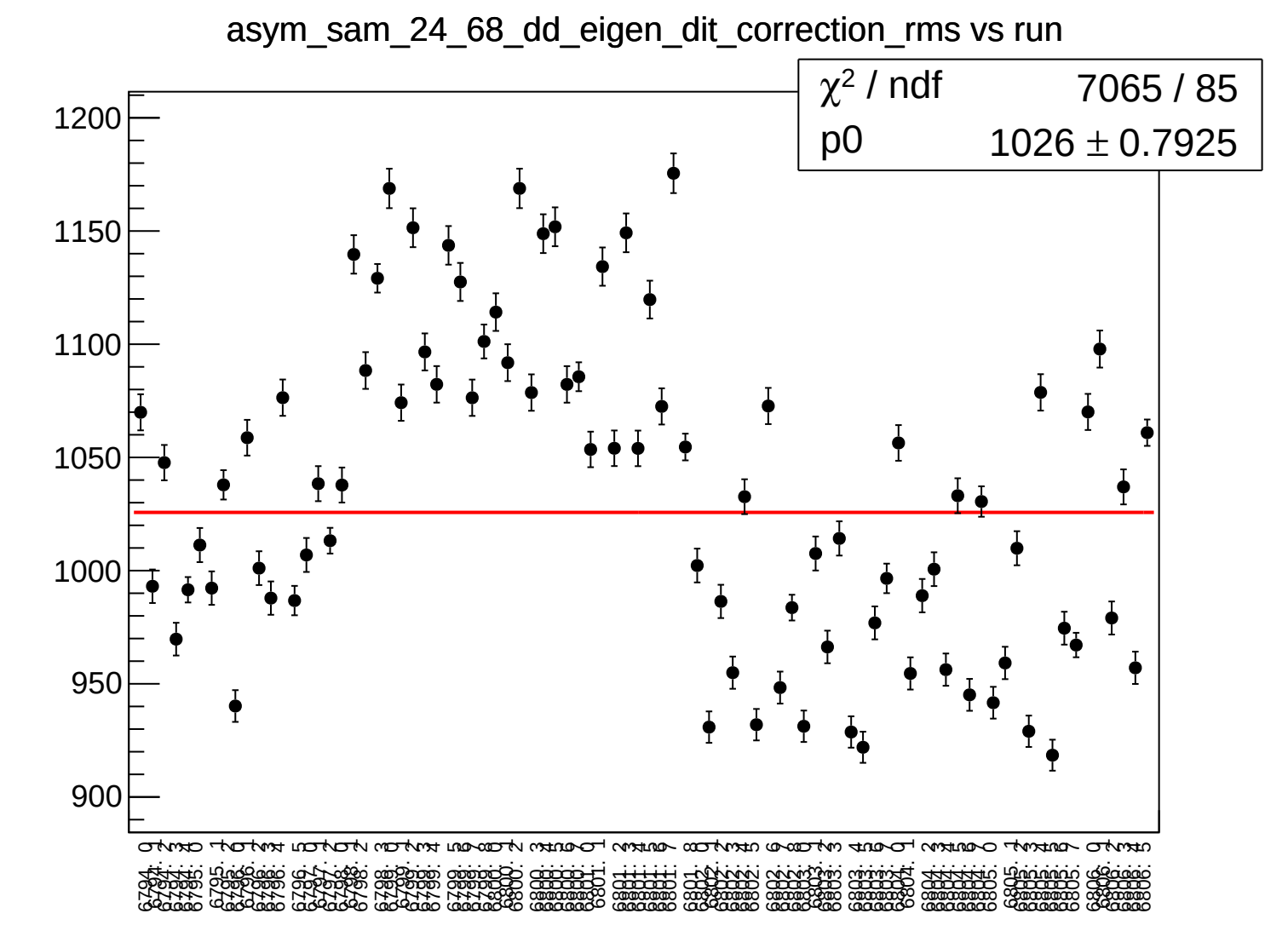

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 7065 / 85
p0 1026 ± 0.7925
1200
1150
1100
1050
1000
950
900

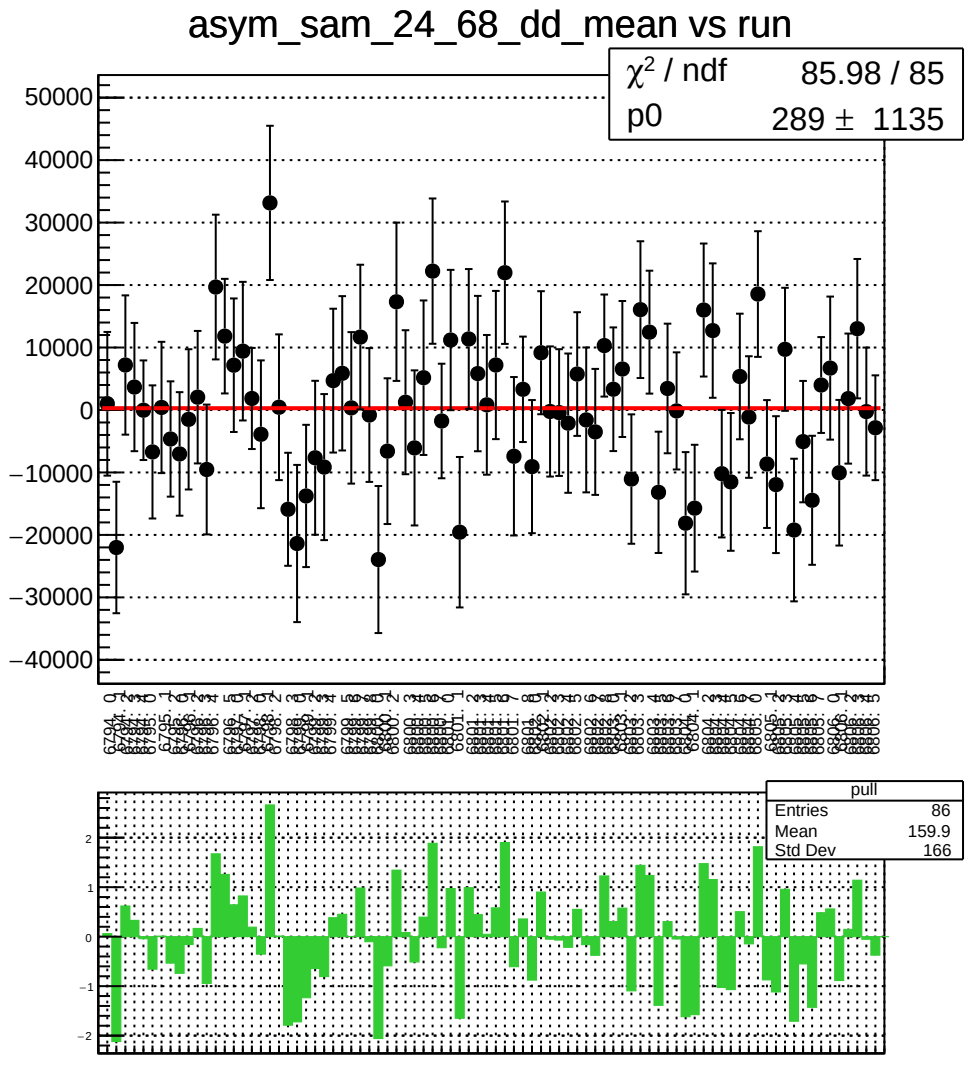

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.54 / 85
p0 −12.42 ± 110.3
pull
Entries 86
Mean −574.1
Std Dev 0
pull1D
Entries 86
Mean 0.001652
Std Dev 1.043

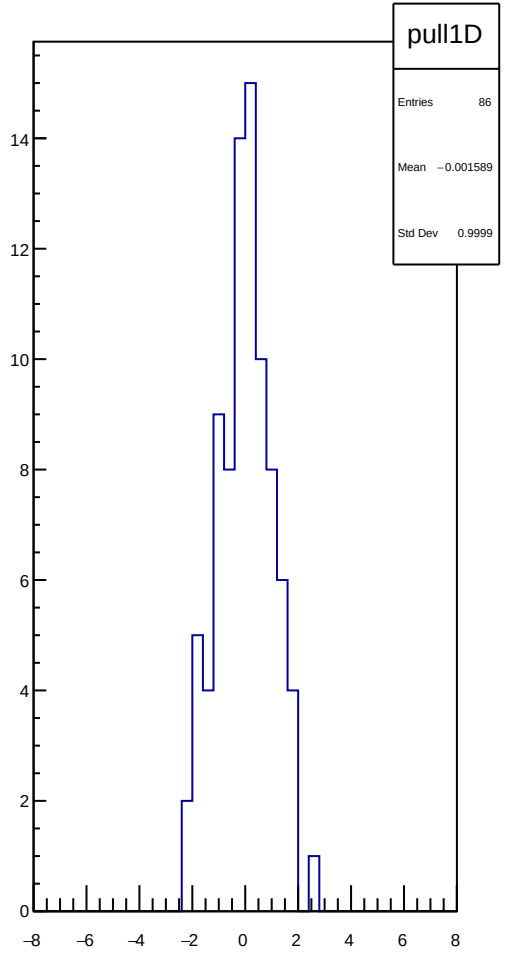

eigen_dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 9406 / 85
p0 100.9 ± 0.07801
170
160
150
140
130
120
110
100
90

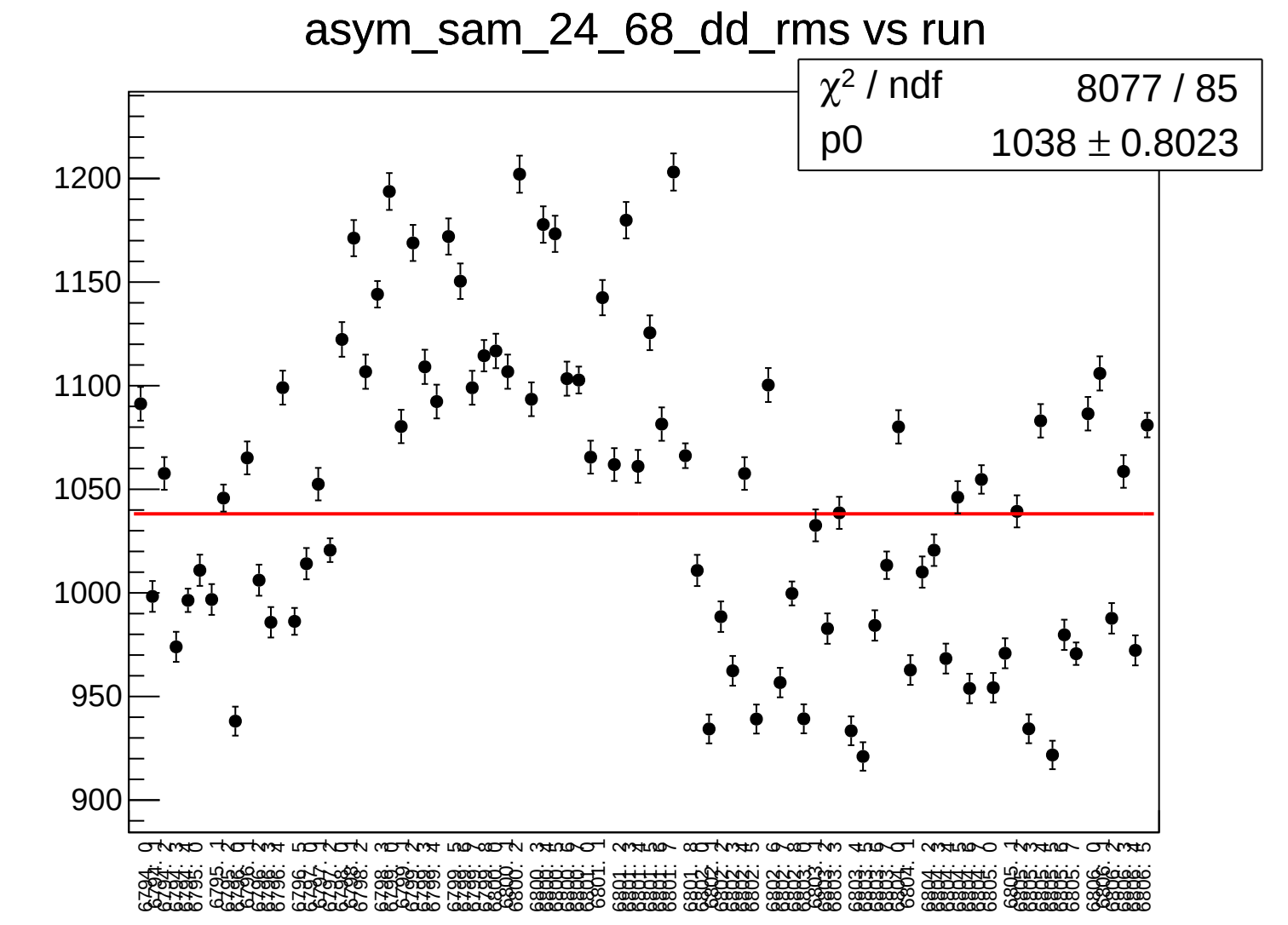

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.56 / 85
p0 −345.9 ± 1121
pull
Entries 86
Mean 61.84
Std Dev 120.5

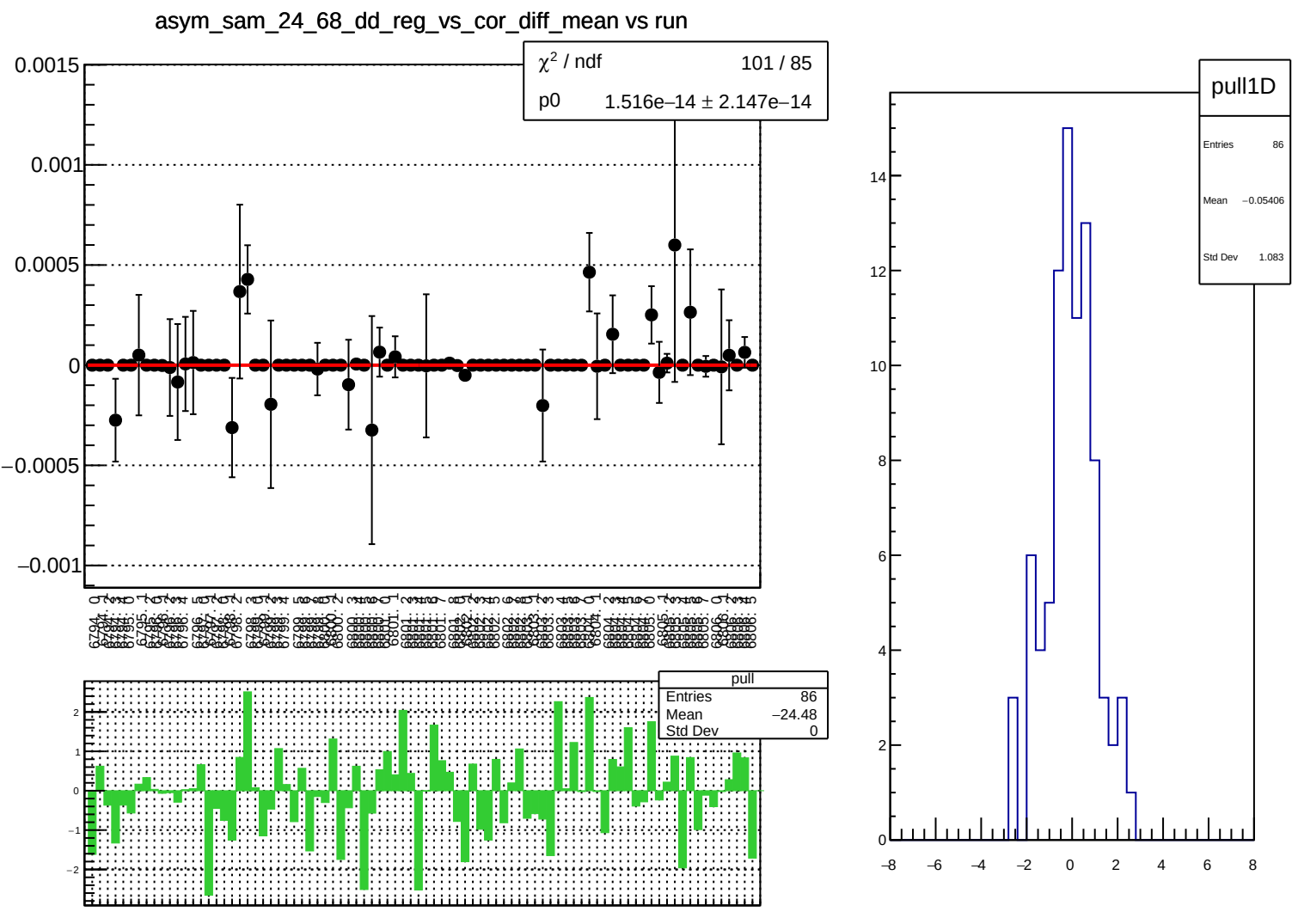

pull1D
Entries 86
Mean 0.003699
Std Dev 0.9798

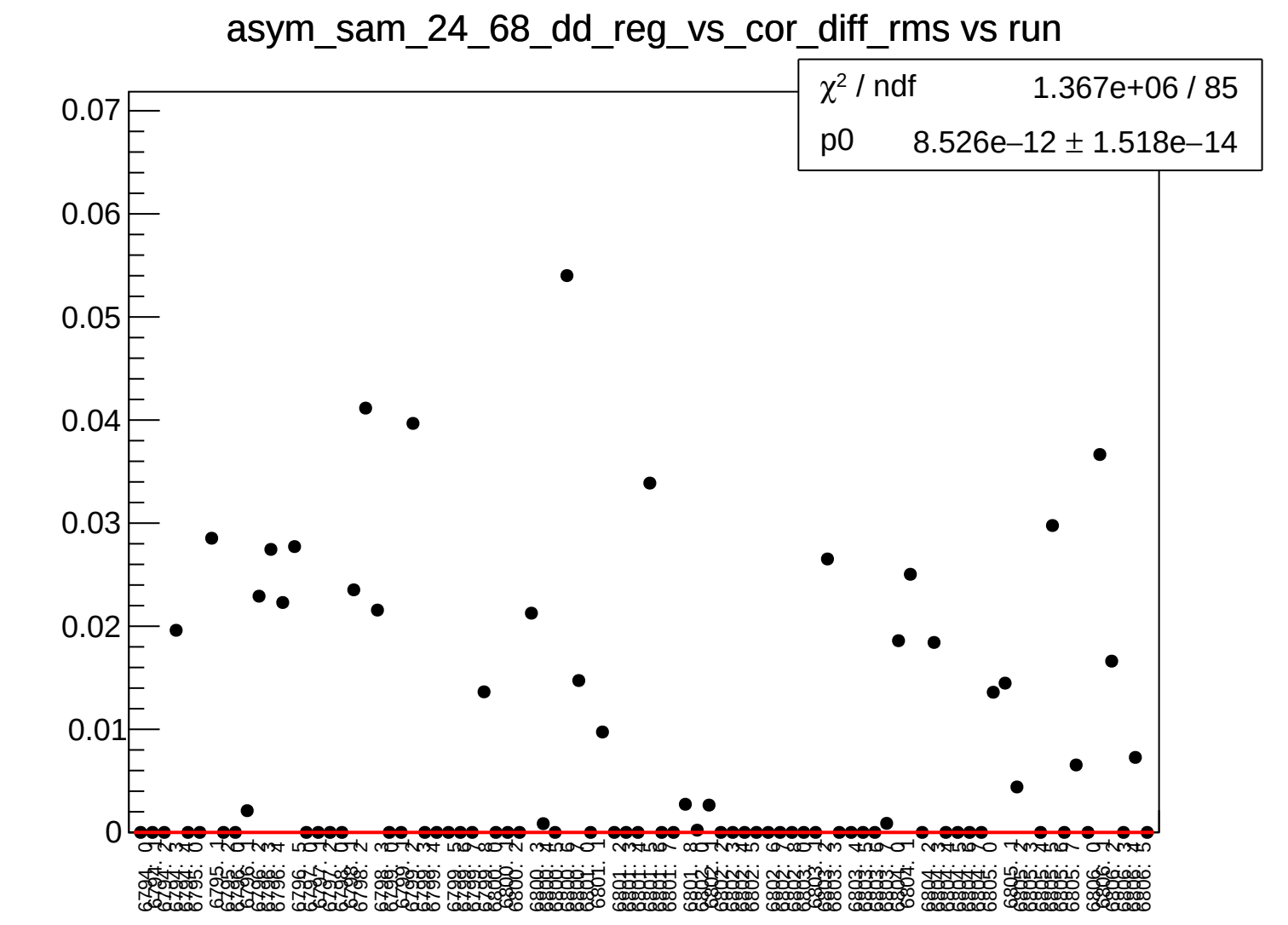

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 7065 / 85
p0 1026 ± 0.7925
1200
1150
1100
1050
1000
950
900

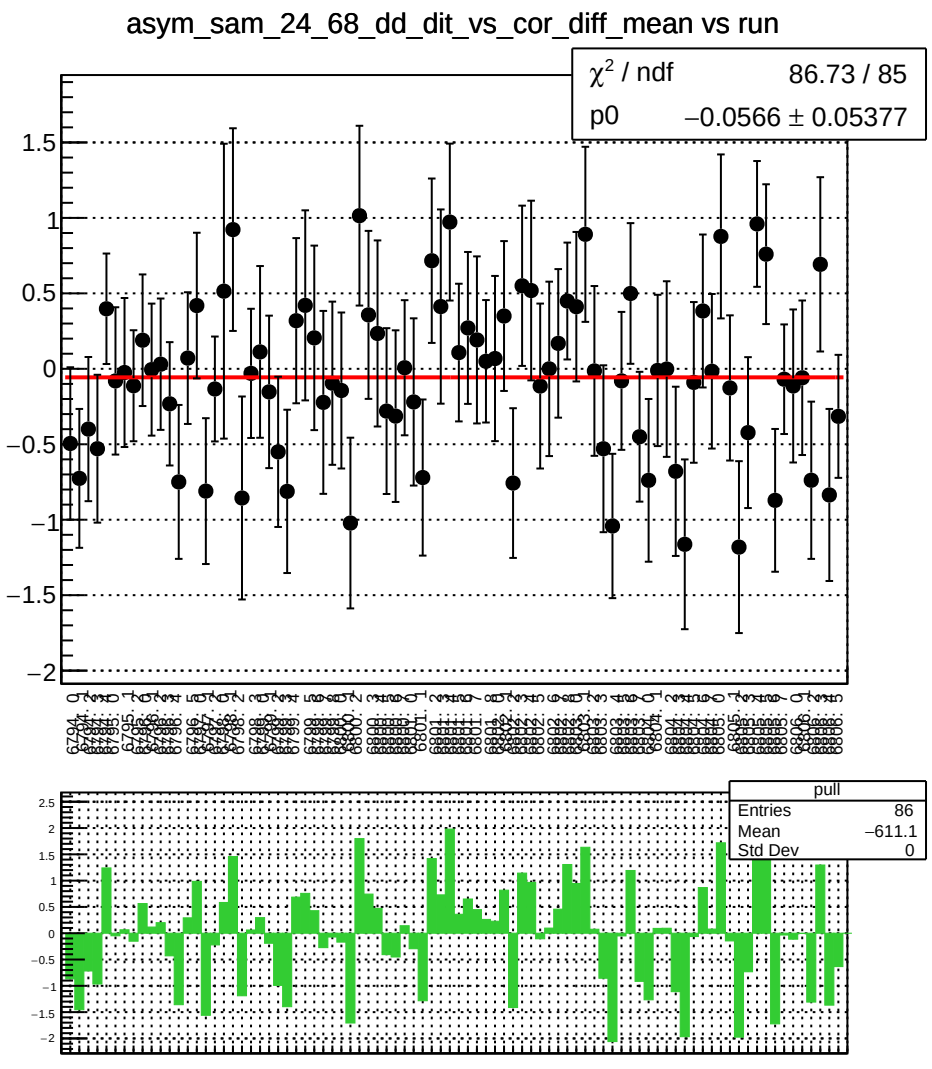

asym_sam_24_68_dd_mean vs run
χ² / ndf 85.98 / 85
p0 289 ± 1135
pull
Entries 86
Mean 159.9
Std Dev 166

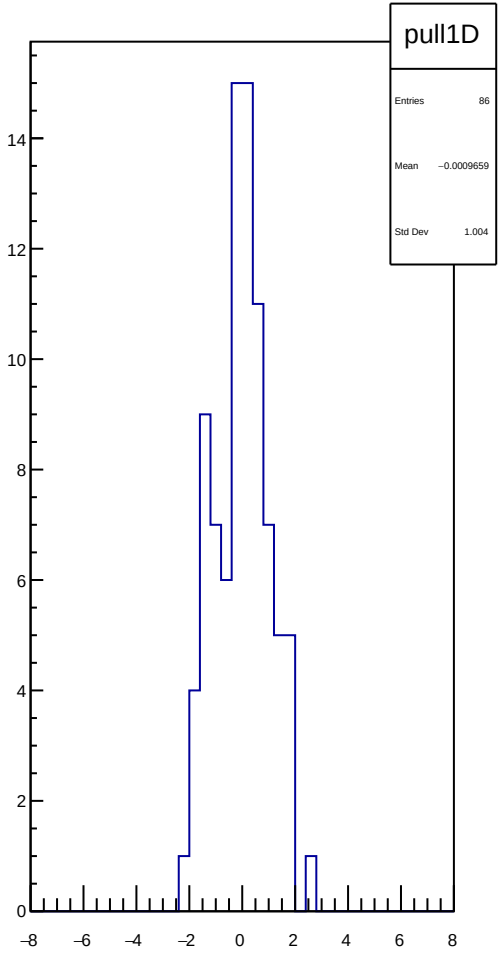

pull1D
Entries 86
Mean −0.001589
Std Dev 0.9999

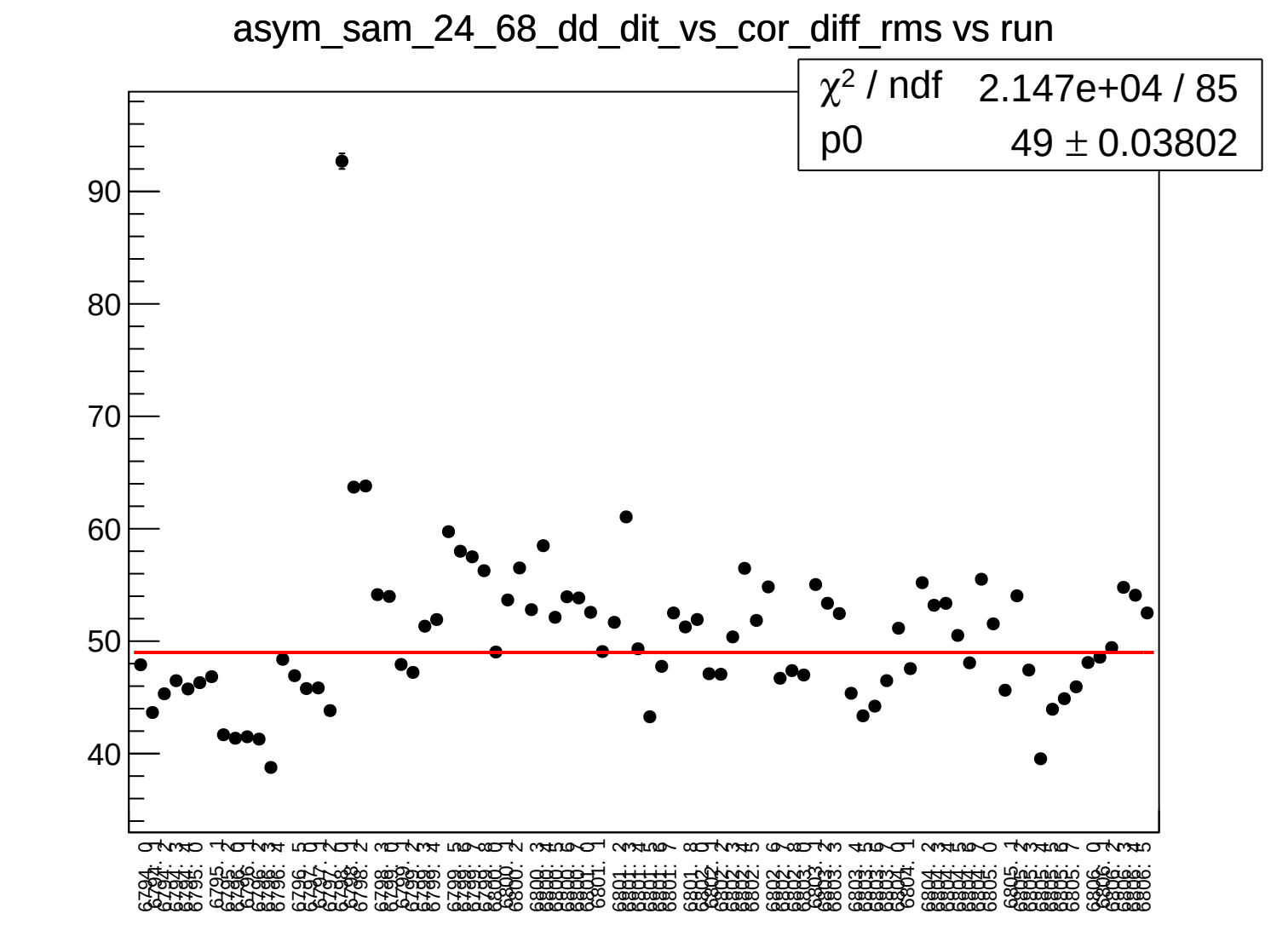

asym_sam_24_68_dd_rms vs run
χ² / ndf 8077 / 85
p0 1038 ± 0.8023
1200
1150
1100
1050
1000
950
900

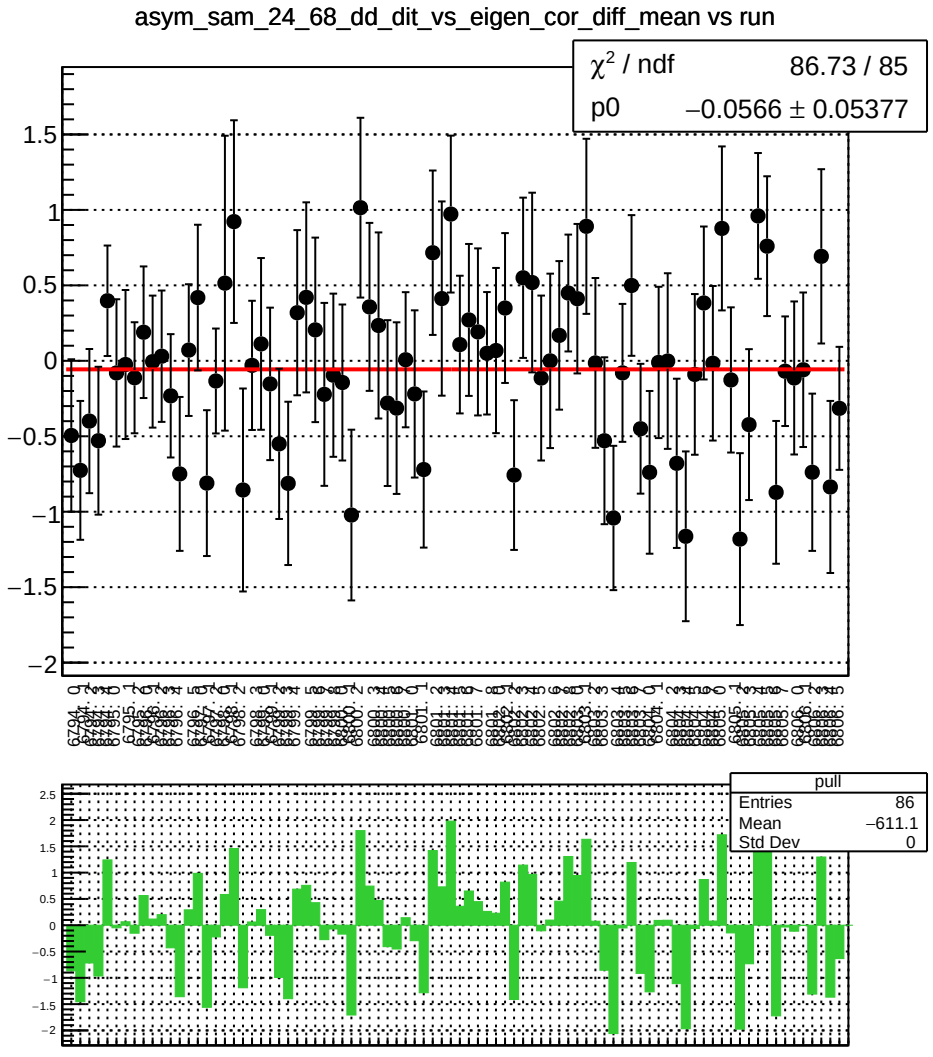

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101 / 85
p0 1.516e−14 ± 2.147e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −24.48
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.05406
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

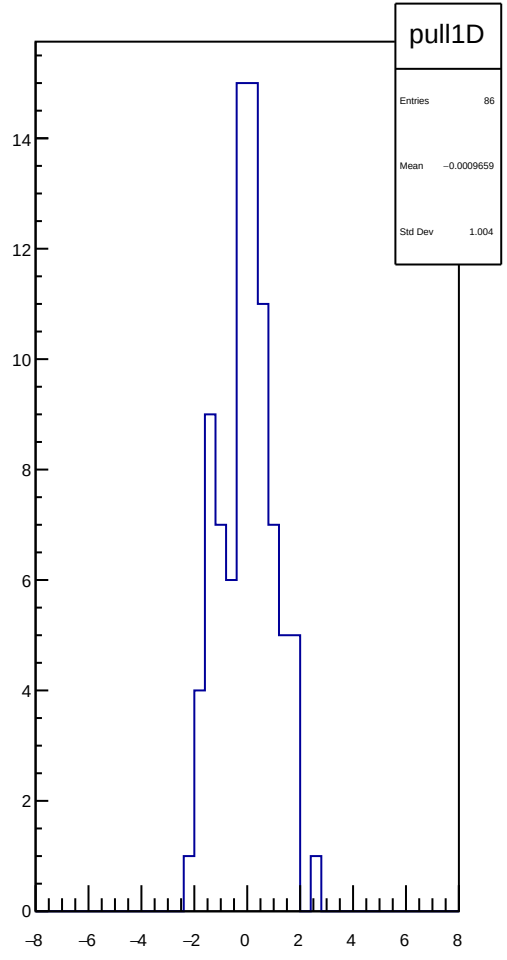

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.367e+06 / 85
p0 8.526e−12 ± 1.518e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

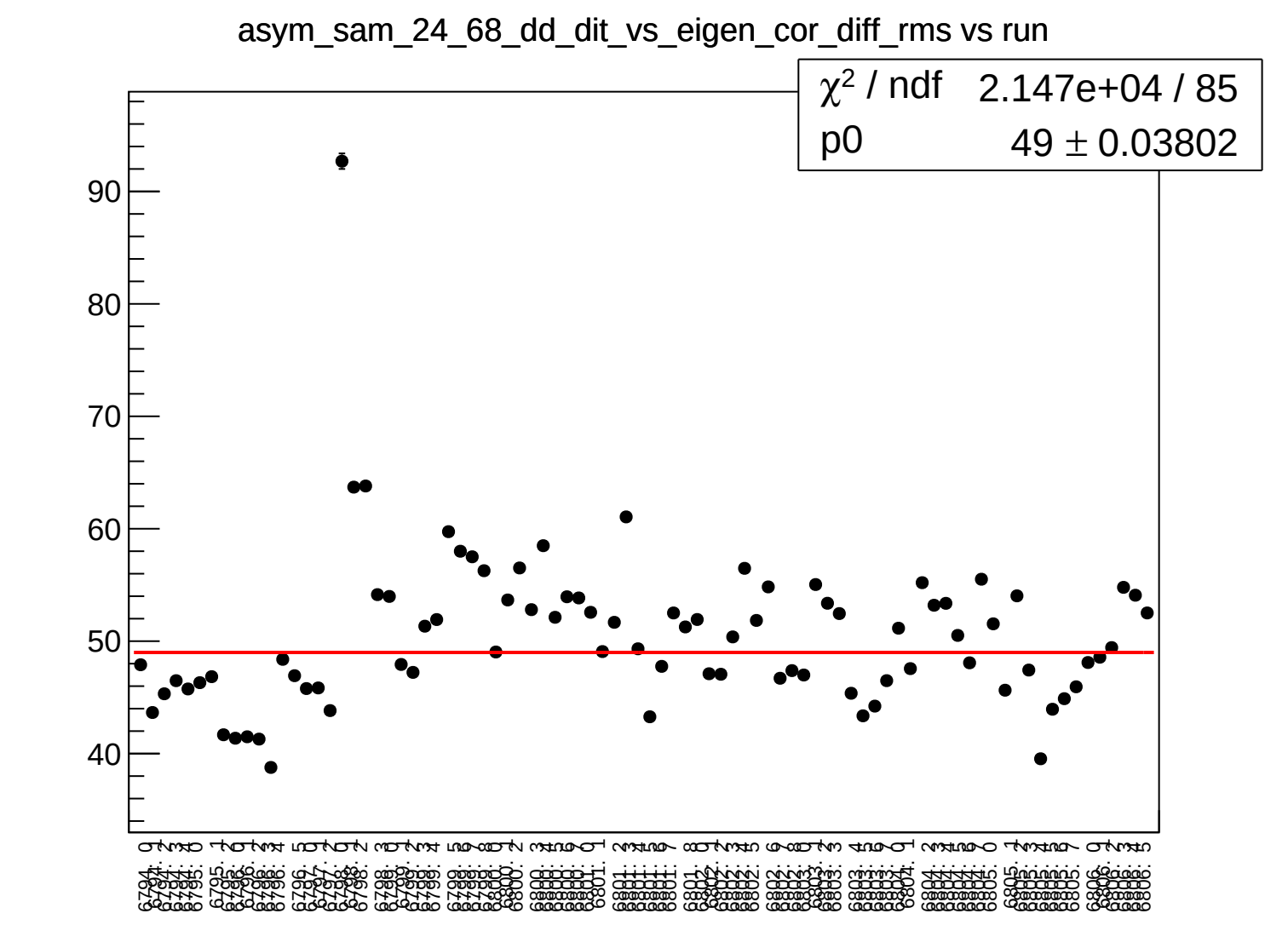

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 85
p0 −0.0566 ± 0.05377
pull
Entries 86
Mean −611.1
Std Dev 0

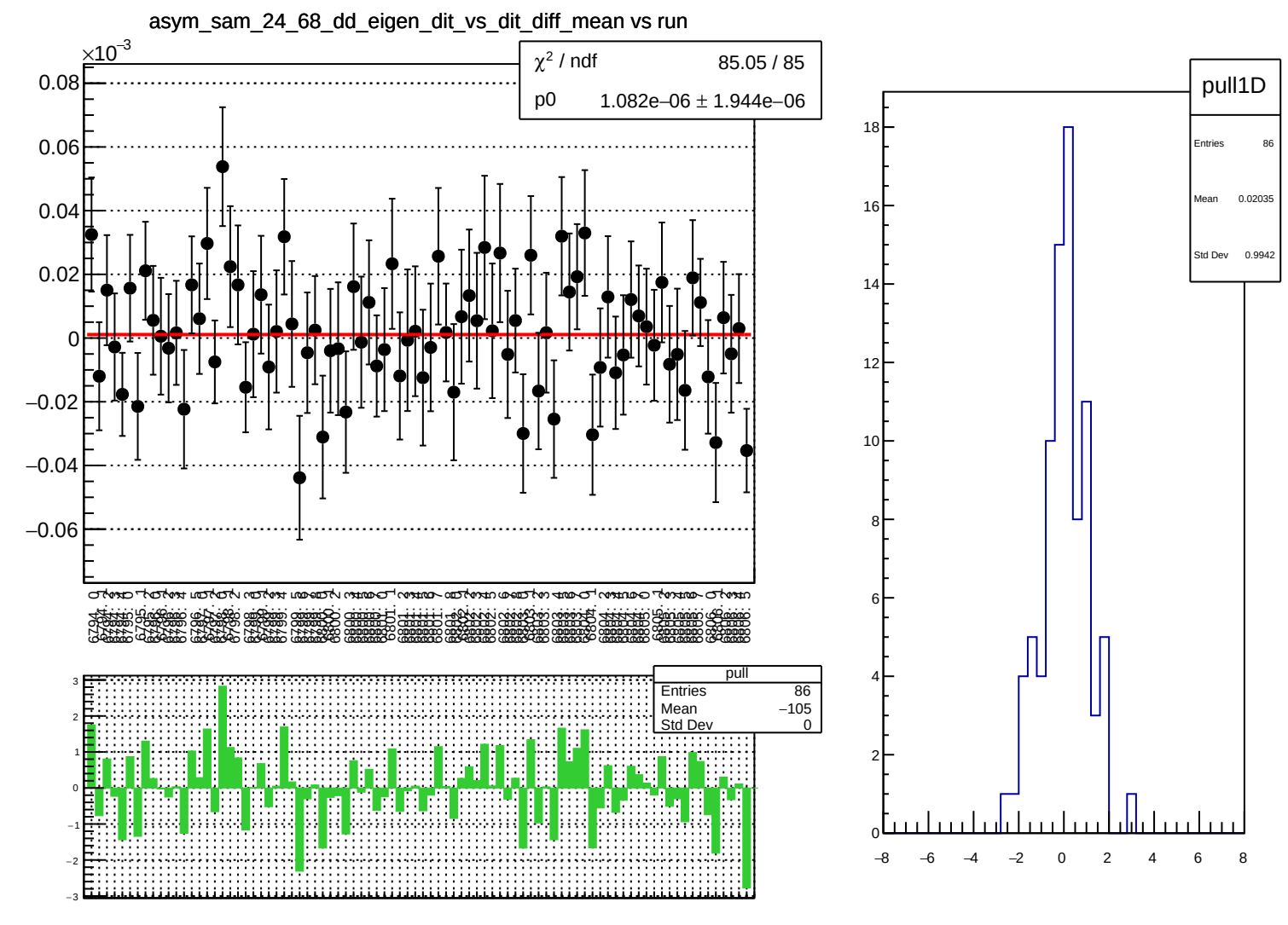

pull1D
Entries 86
Mean −0.0009659
Std Dev 1.004

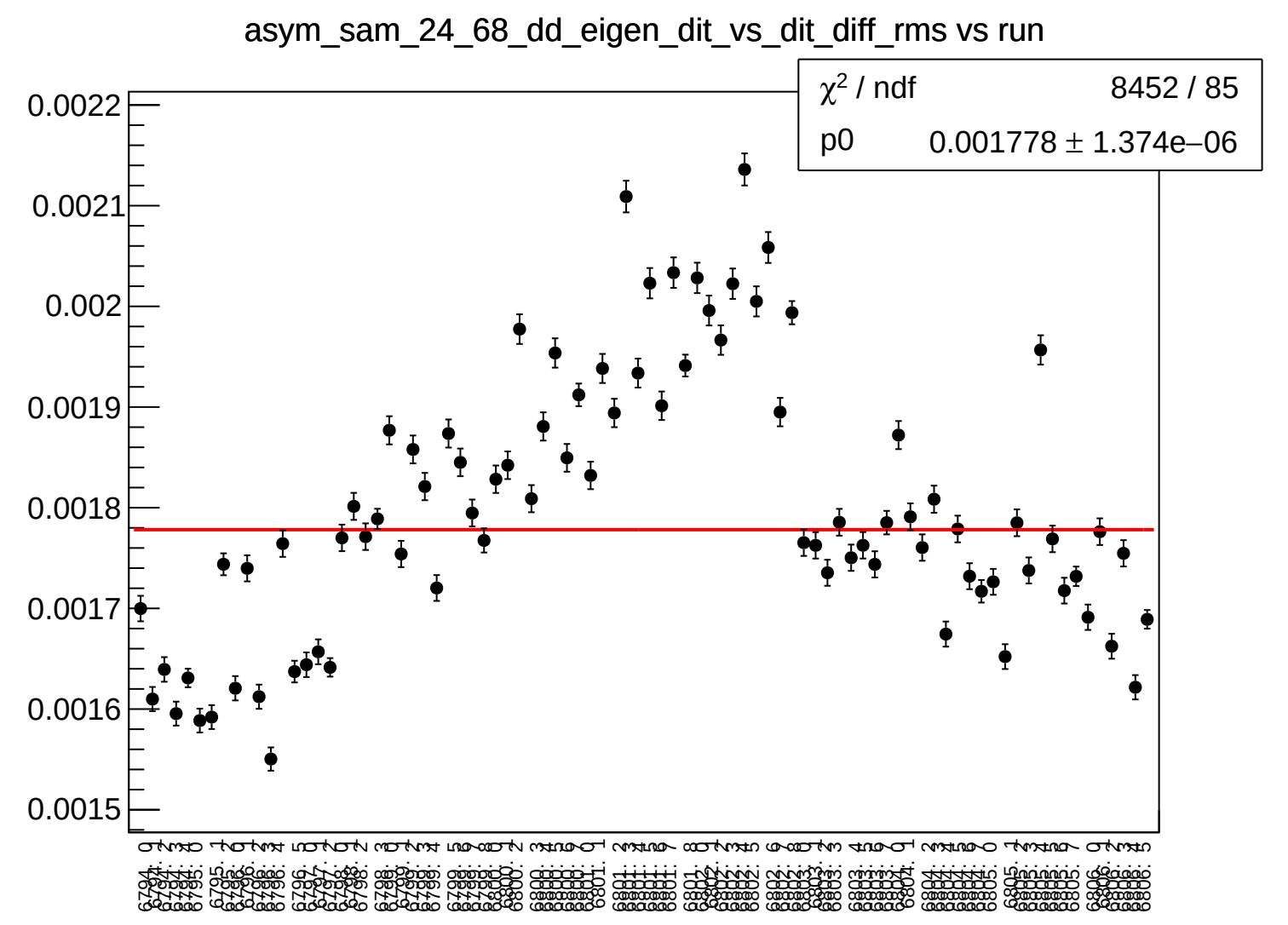

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+04 / 85
p0 49 ± 0.03802
90
80
70
60
50
40

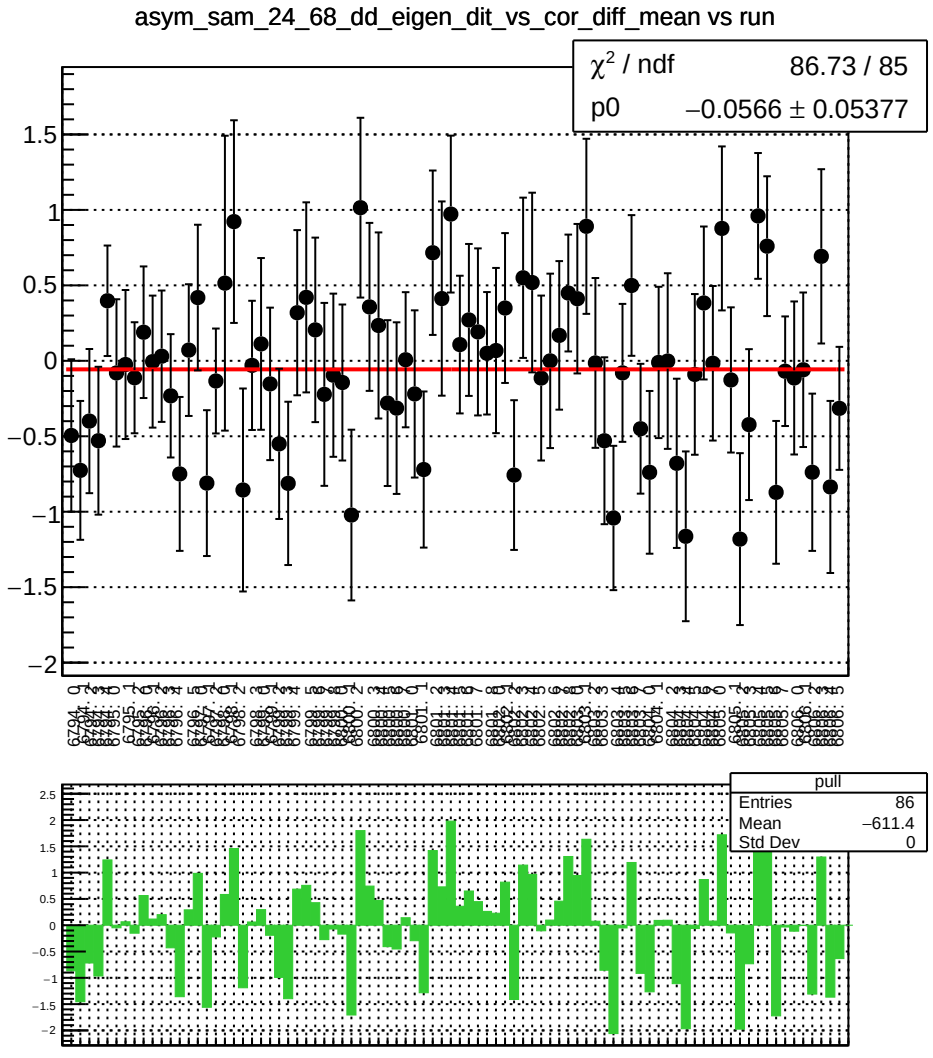

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 85
p0 −0.0566 ± 0.05377
pull
Entries 86
Mean −611.1
Std Dev 0

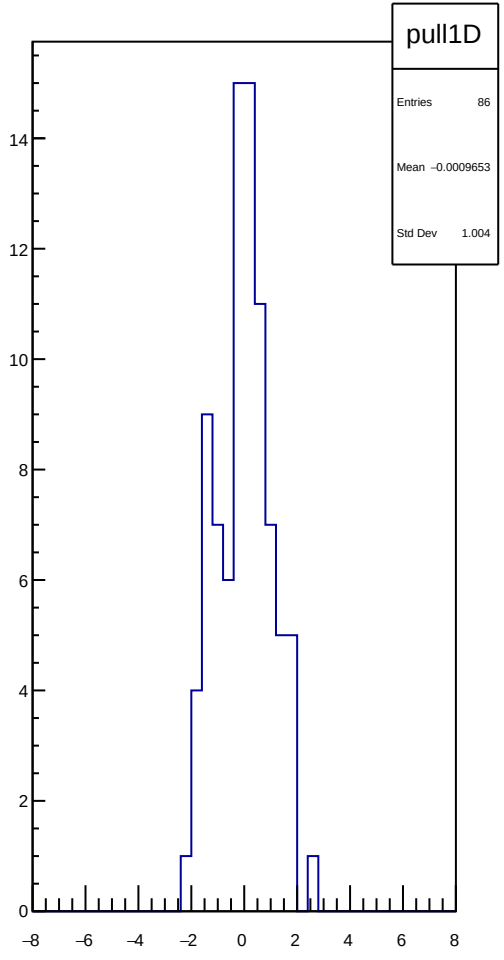

pull1D
Entries 86
Mean −0.0009659
Std Dev 1.004

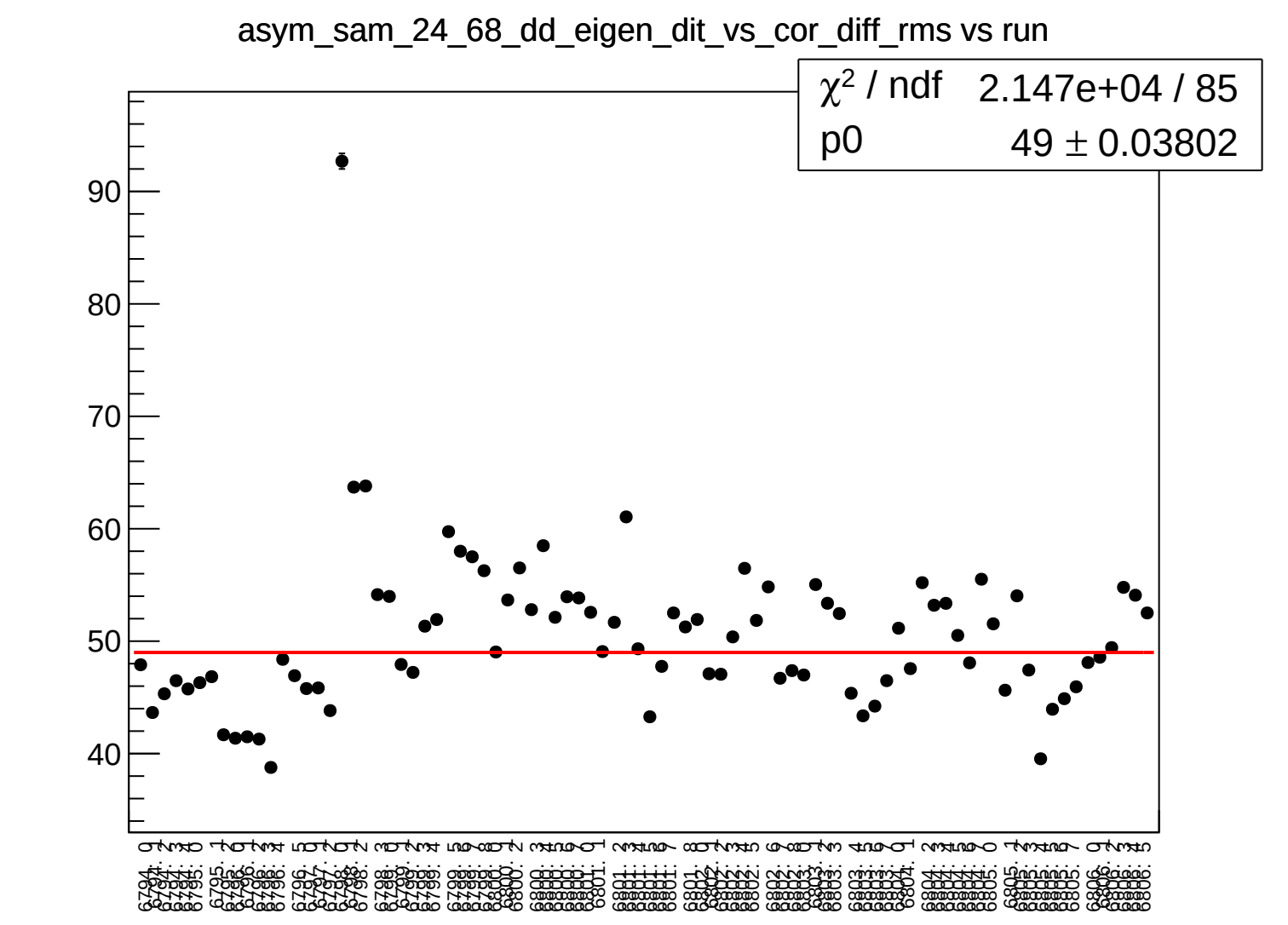

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+04 / 85
p0 49 ± 0.03802
90
80
70
60
50
40

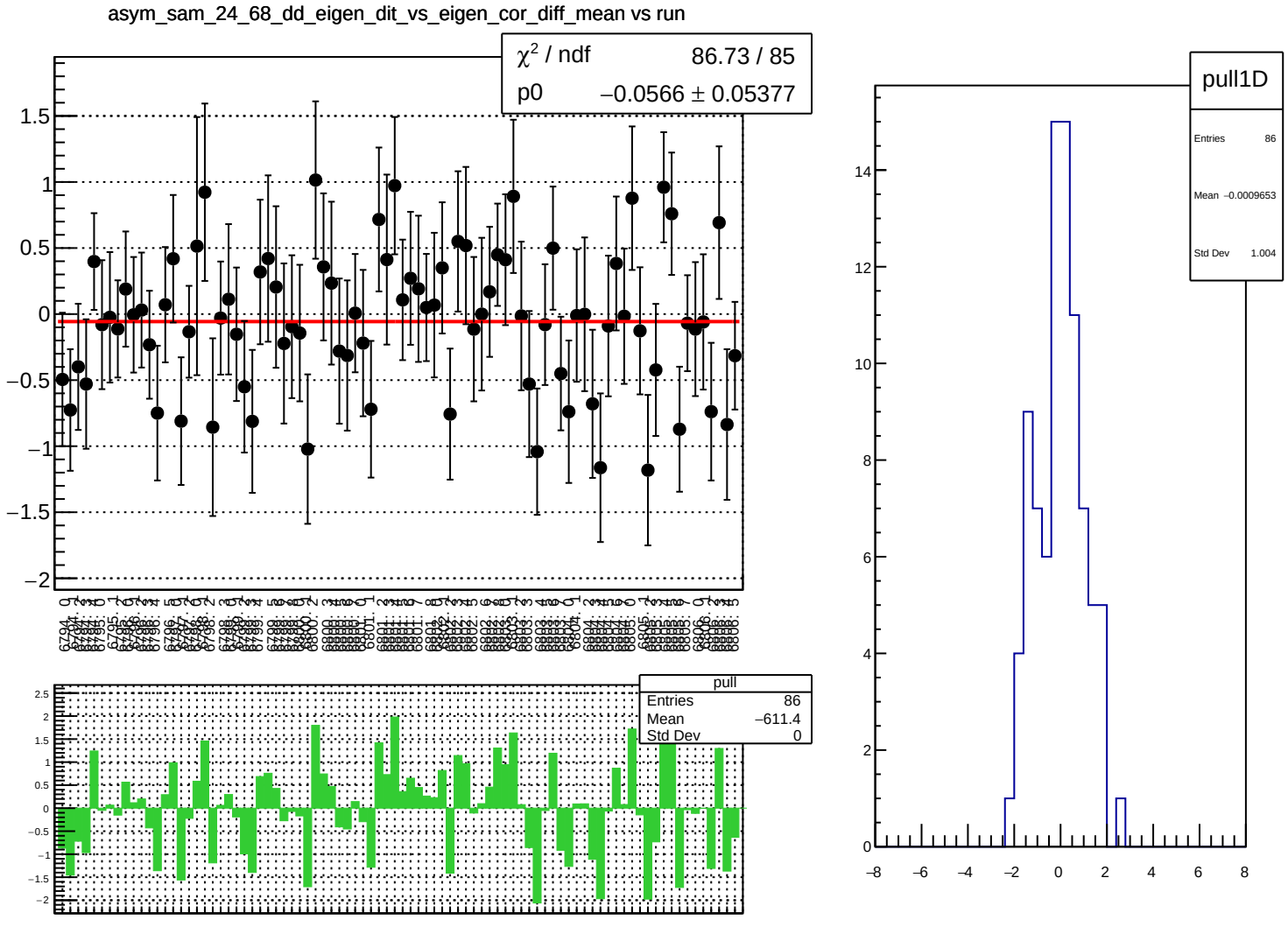

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.05 / 85
p0 1.082e−06 ± 1.944e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −105
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.02035
Std Dev 0.9942
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

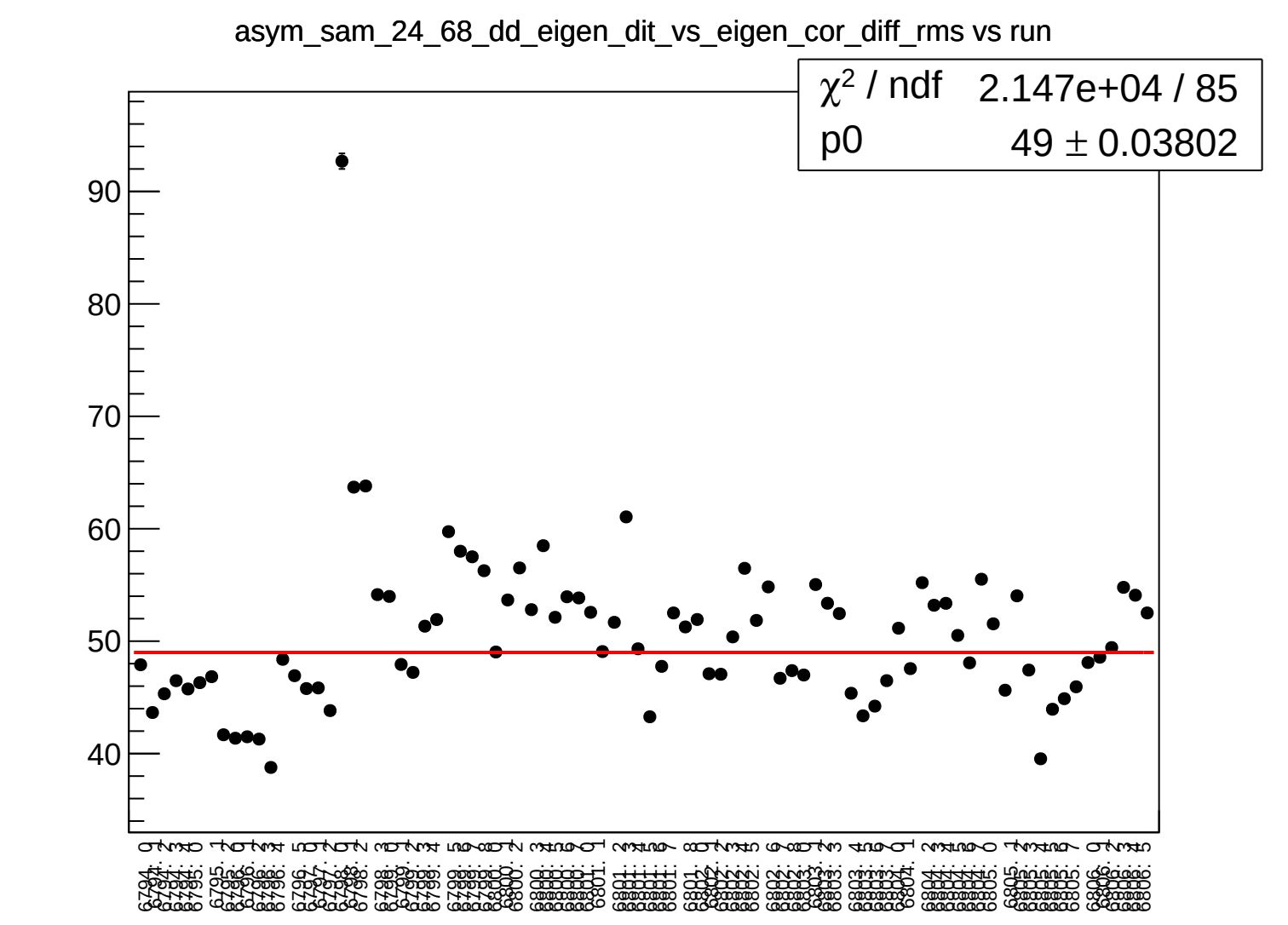

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8452 / 85
p0 0.001778 ± 1.374e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

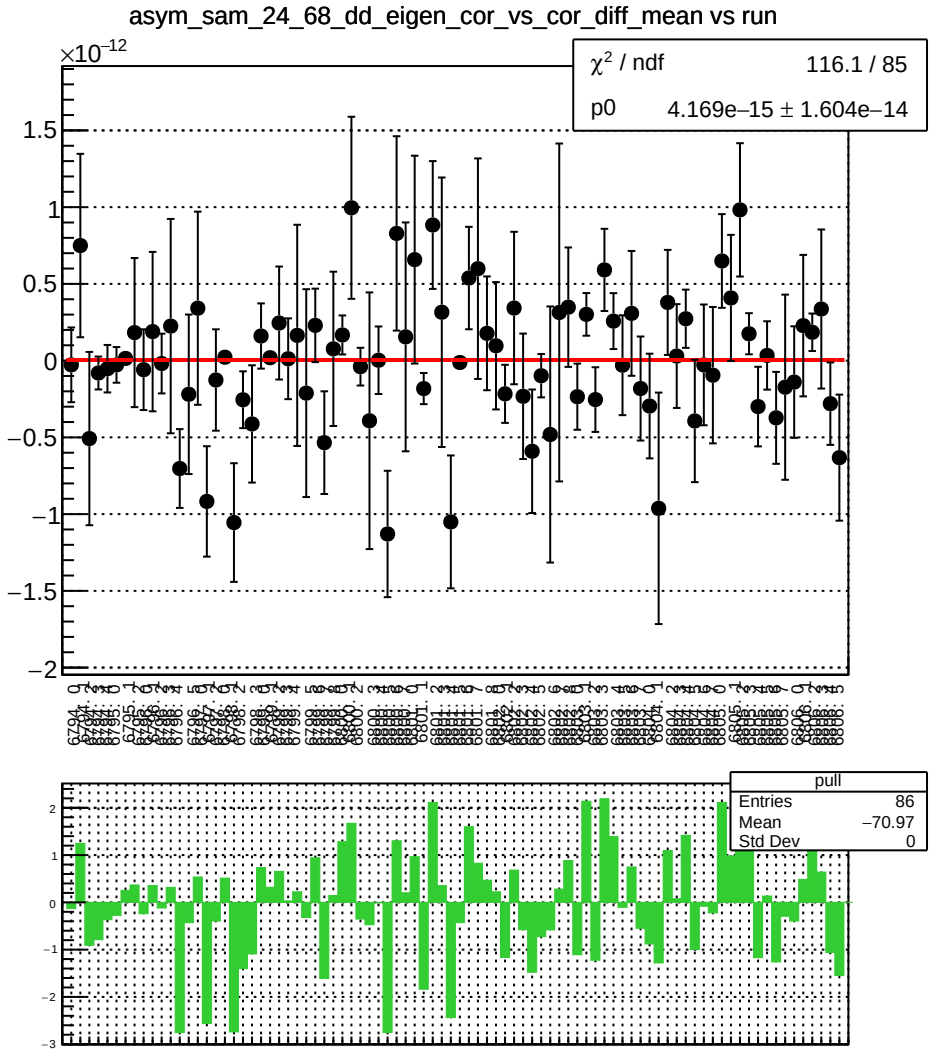

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.73 / 85
p0 −0.0566 ± 0.05377
pull
Entries 86
Mean −611.4
Std Dev 0

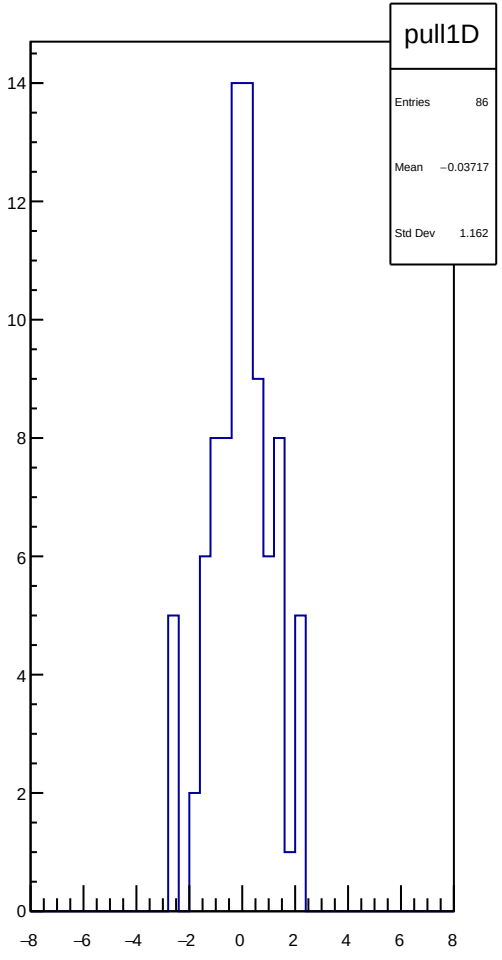

pull1D
Entries 86
Mean −0.0009653
Std Dev 1.004

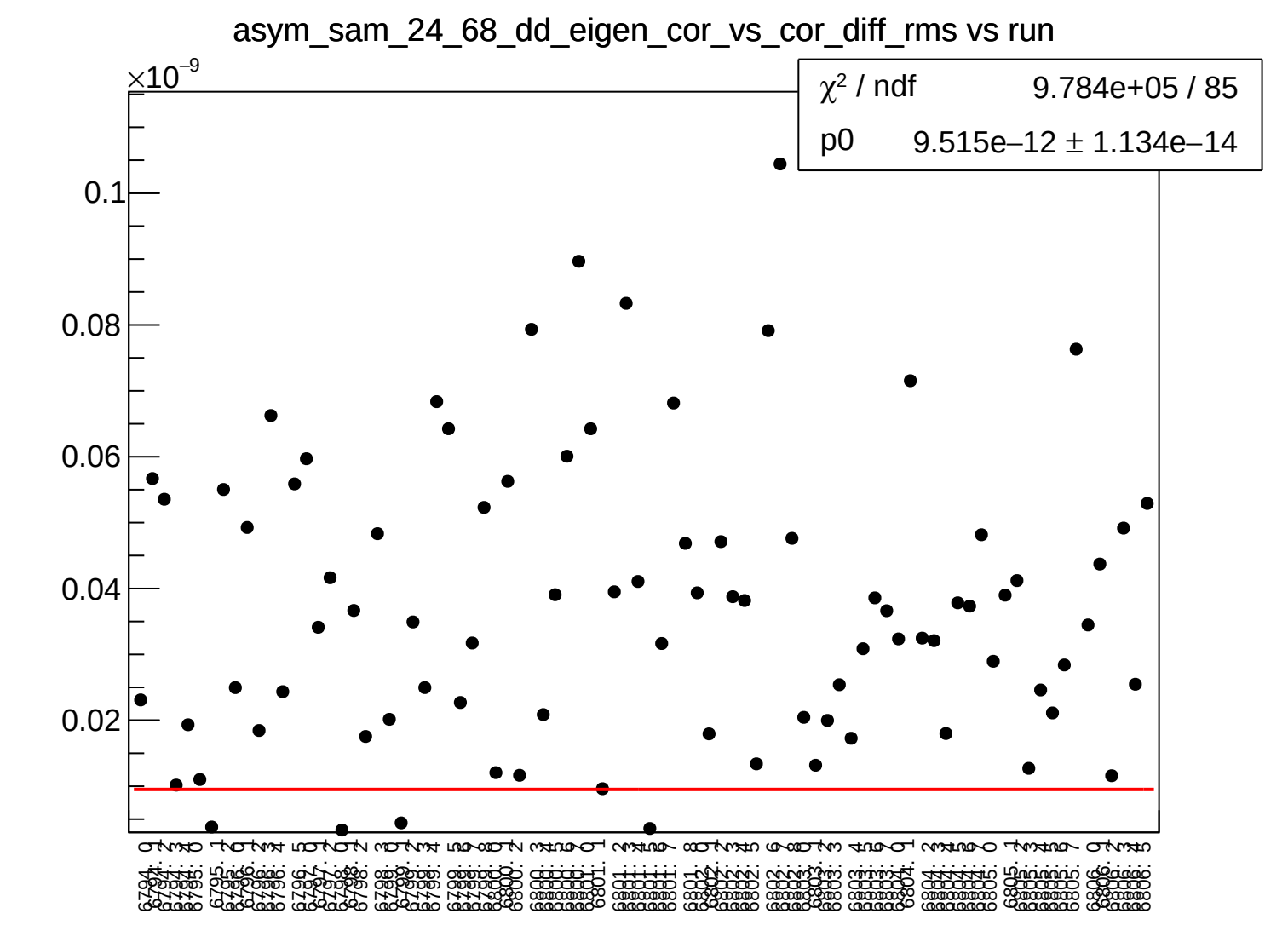

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.147e+04 / 85
p0 49 ± 0.03802
90
80
70
60
50
40

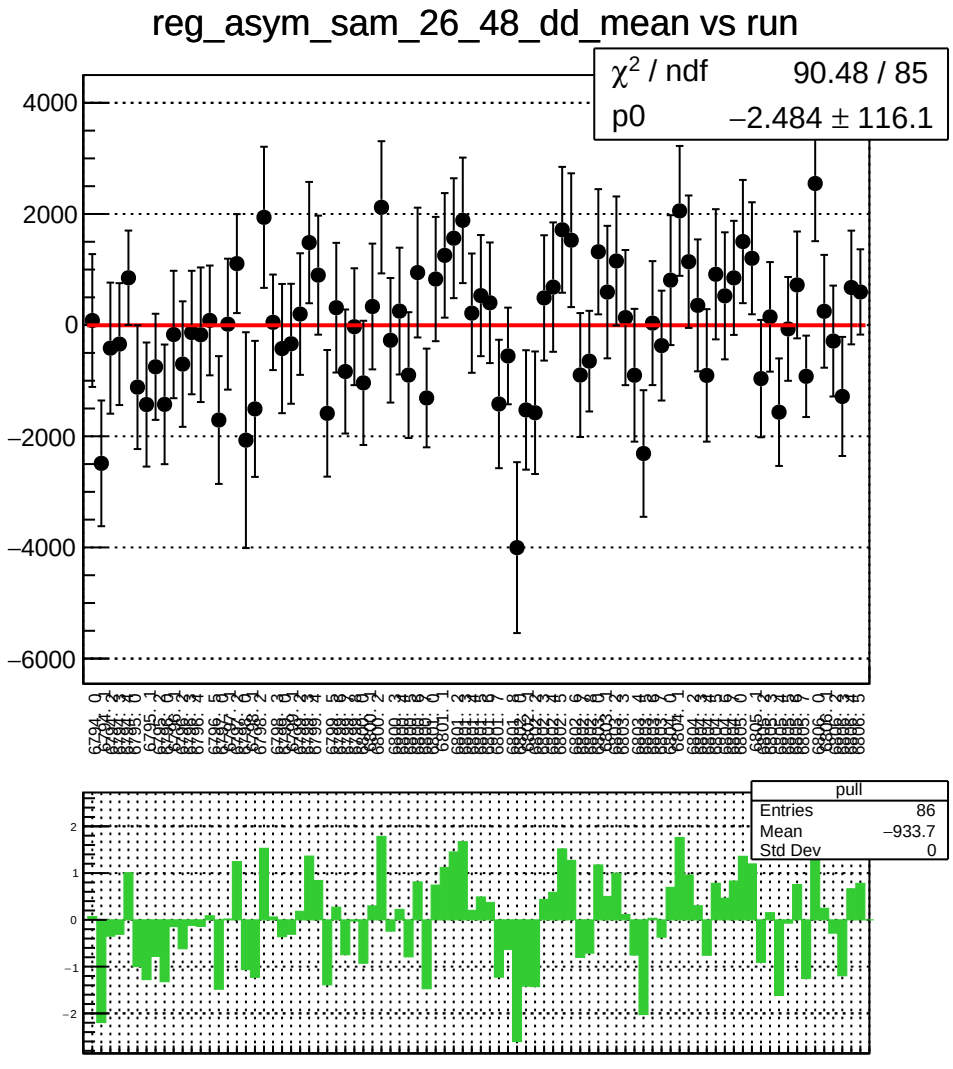

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.73 / 85
p0 −0.0566 ± 0.05377
pull
Entries 86
Mean −611.4
Std Dev 0
pull1D
Entries 86
Mean −0.0009653
Std Dev 1.004

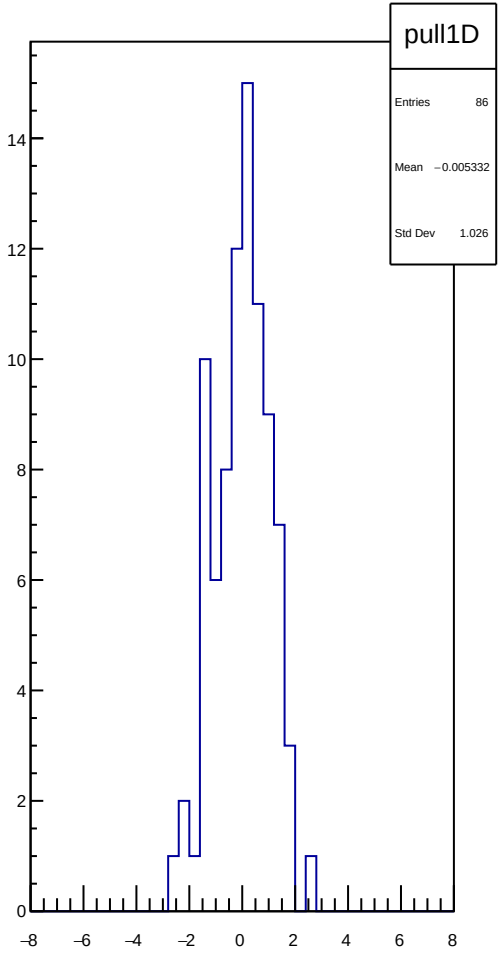

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.147e+04 / 85
p0 49 ± 0.03802
90
80
70
60
50
40

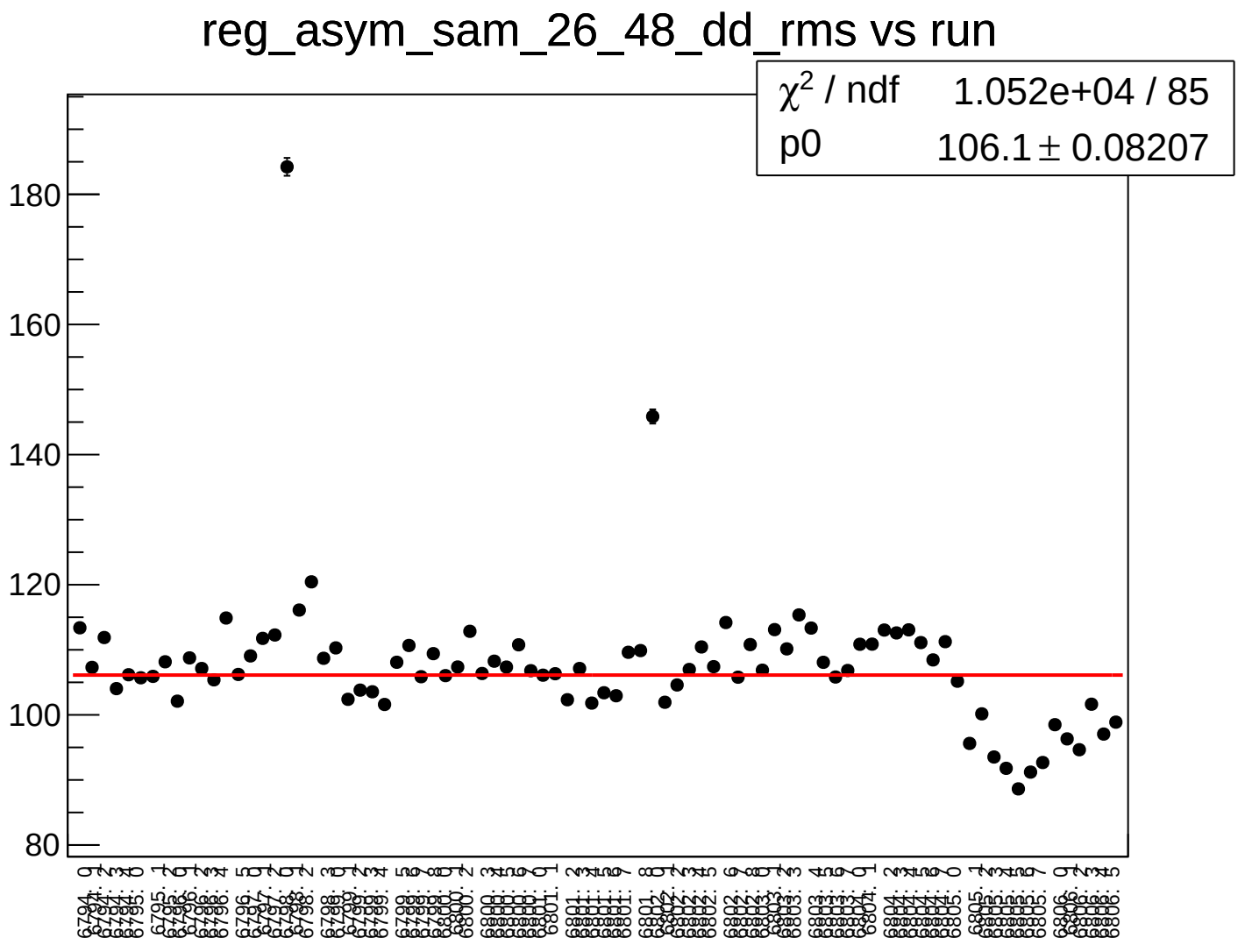

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.1 / 85
p0 4.169e−15 ± 1.604e−14
pull
Entries 86
Mean −70.97
Std Dev 0

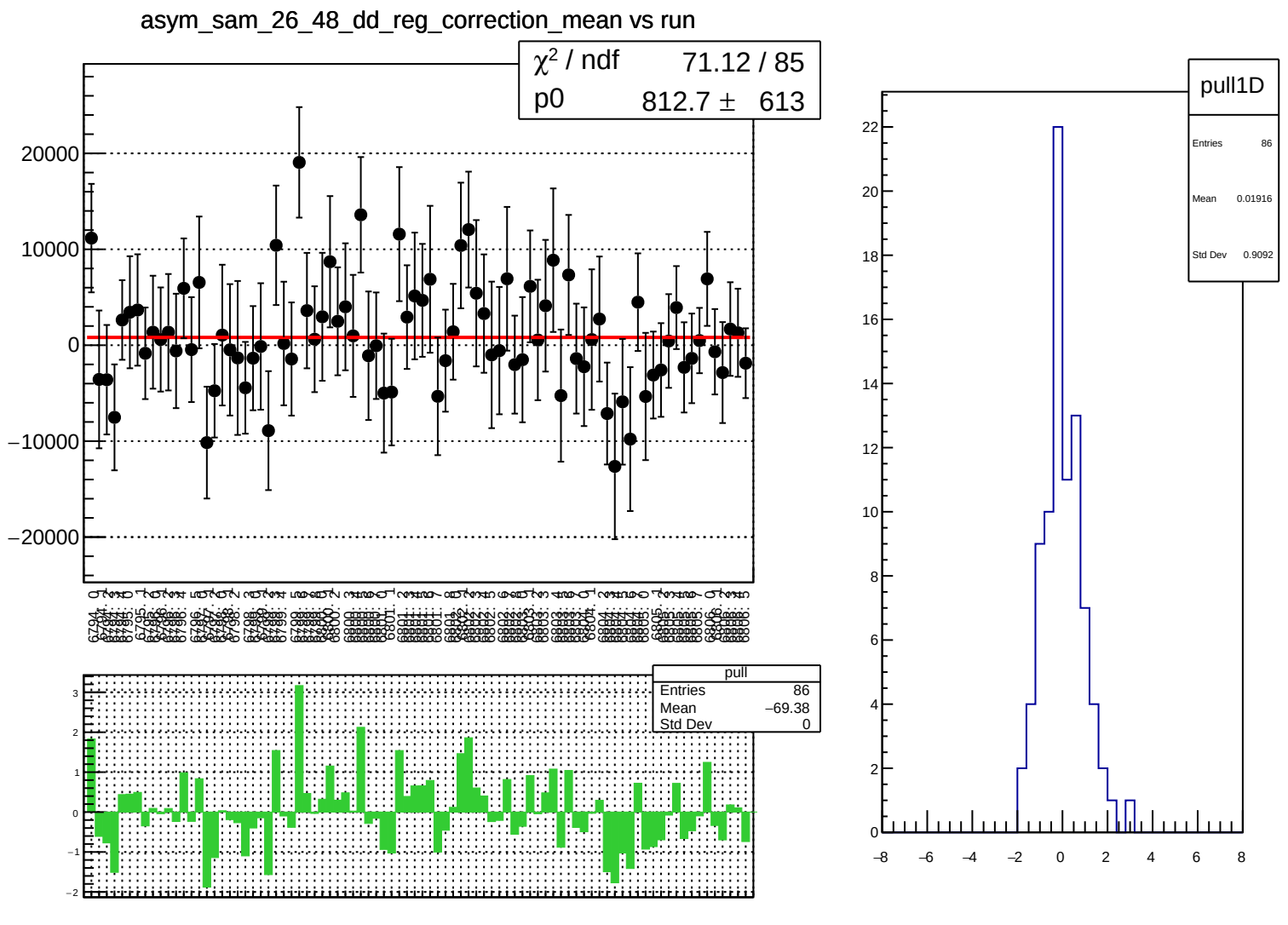

pull1D
Entries 86
Mean −0.03717
Std Dev 1.162

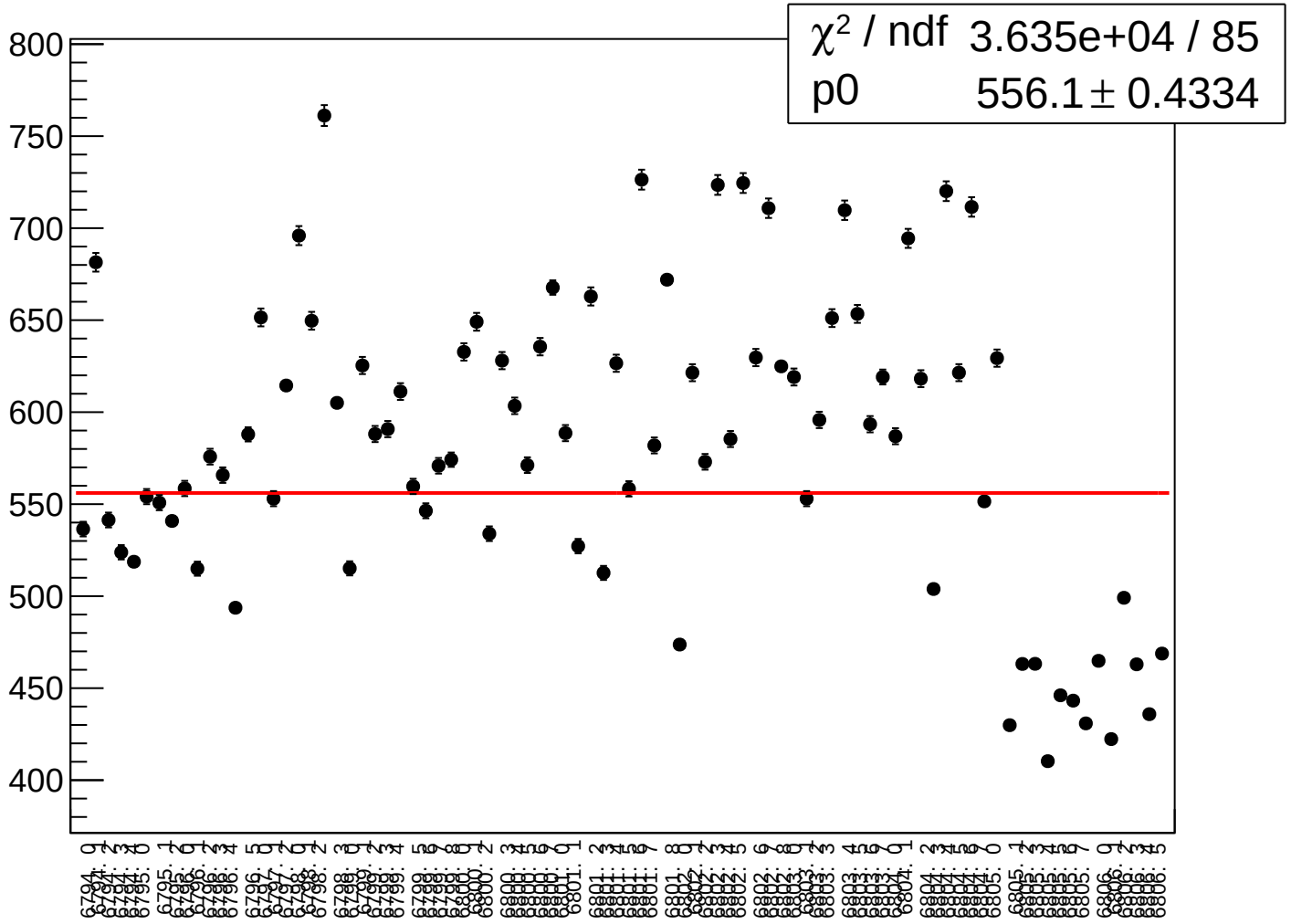

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.784e+05 / 85
p0 9.515e−12 ± 1.134e−14
0.1
0.08
0.06
0.04
0.02

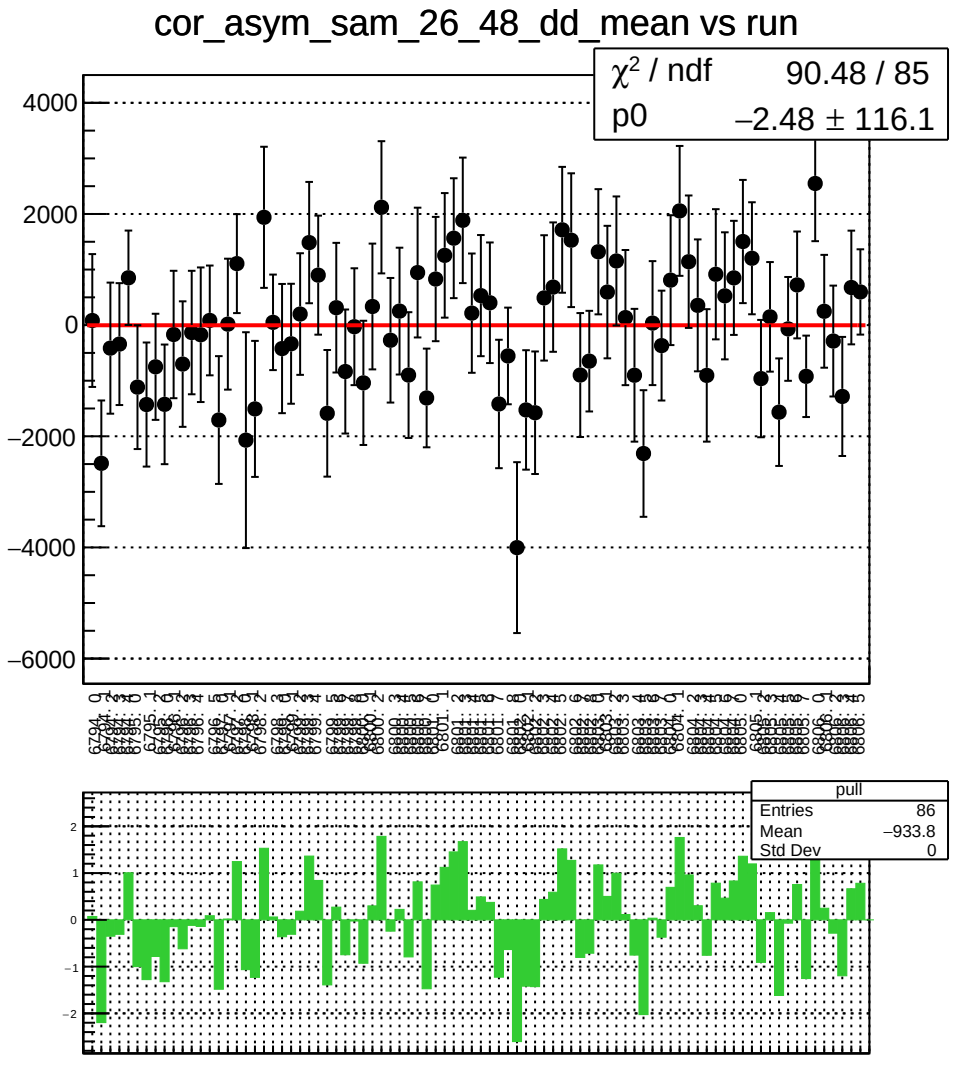

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.48 / 85
p0 −2.484 ± 116.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −933.7
Std Dev 0
2
1
0
−1
−2

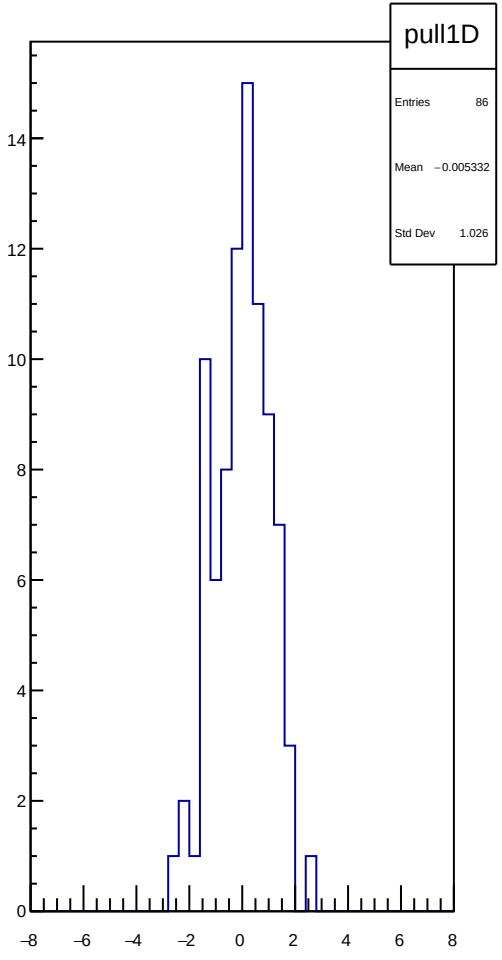

pull1D
Entries 86
Mean −0.005332
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

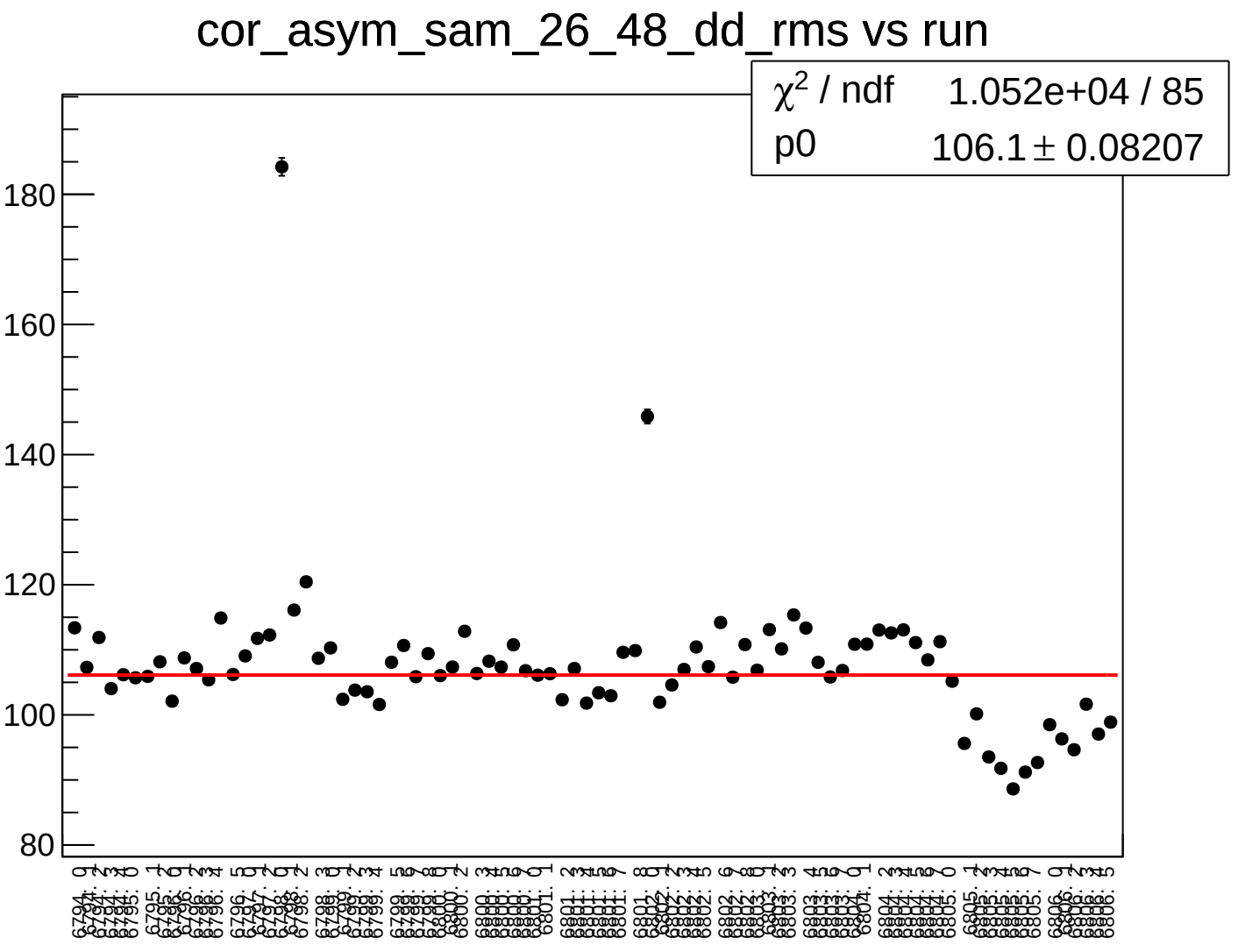

reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.052e+04 / 85
p0 106.1 ± 0.08207
180
160
140
120
100
80

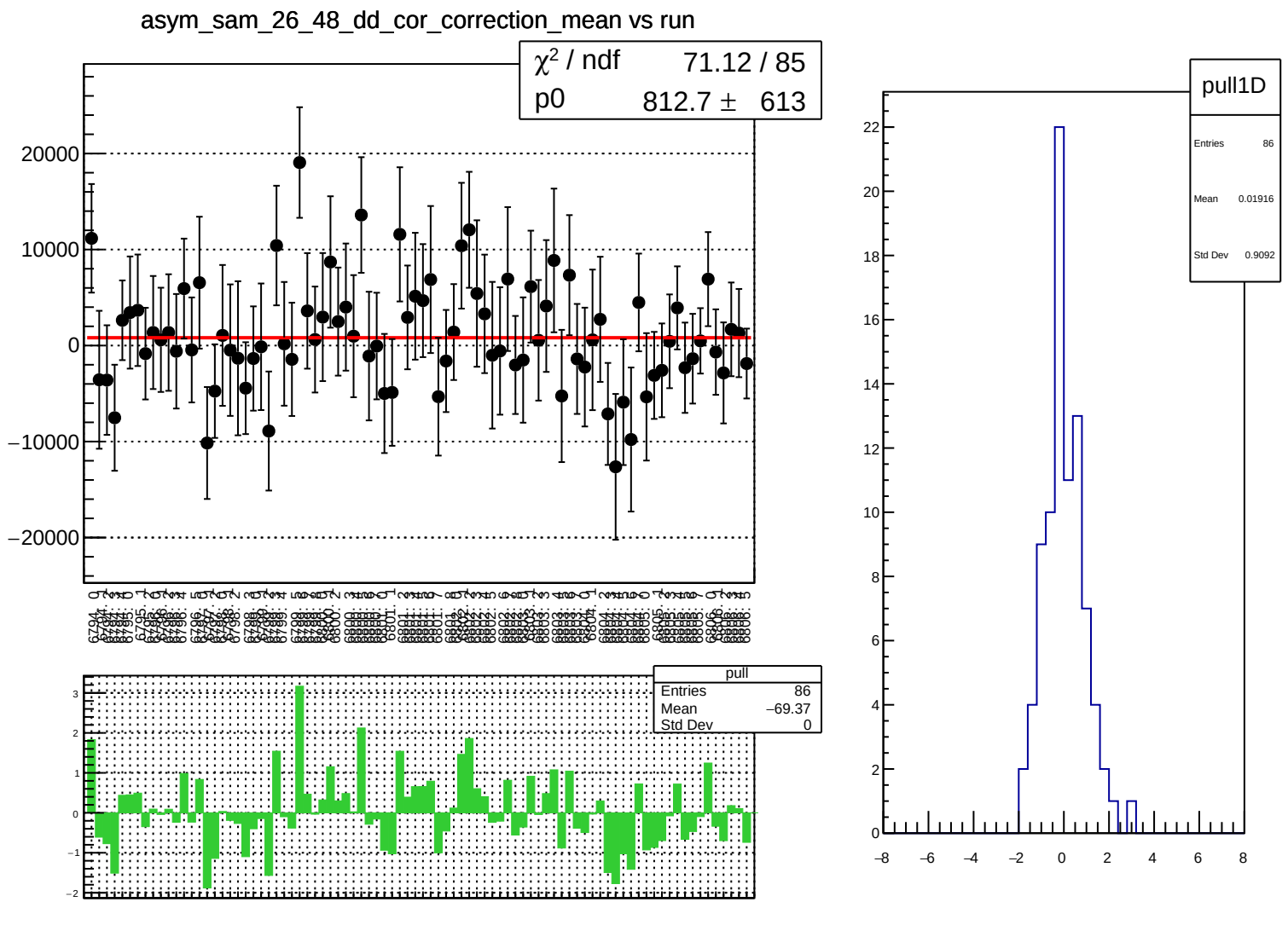

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 71.12 / 85
p0 812.7 ± 613
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −69.38
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01916
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

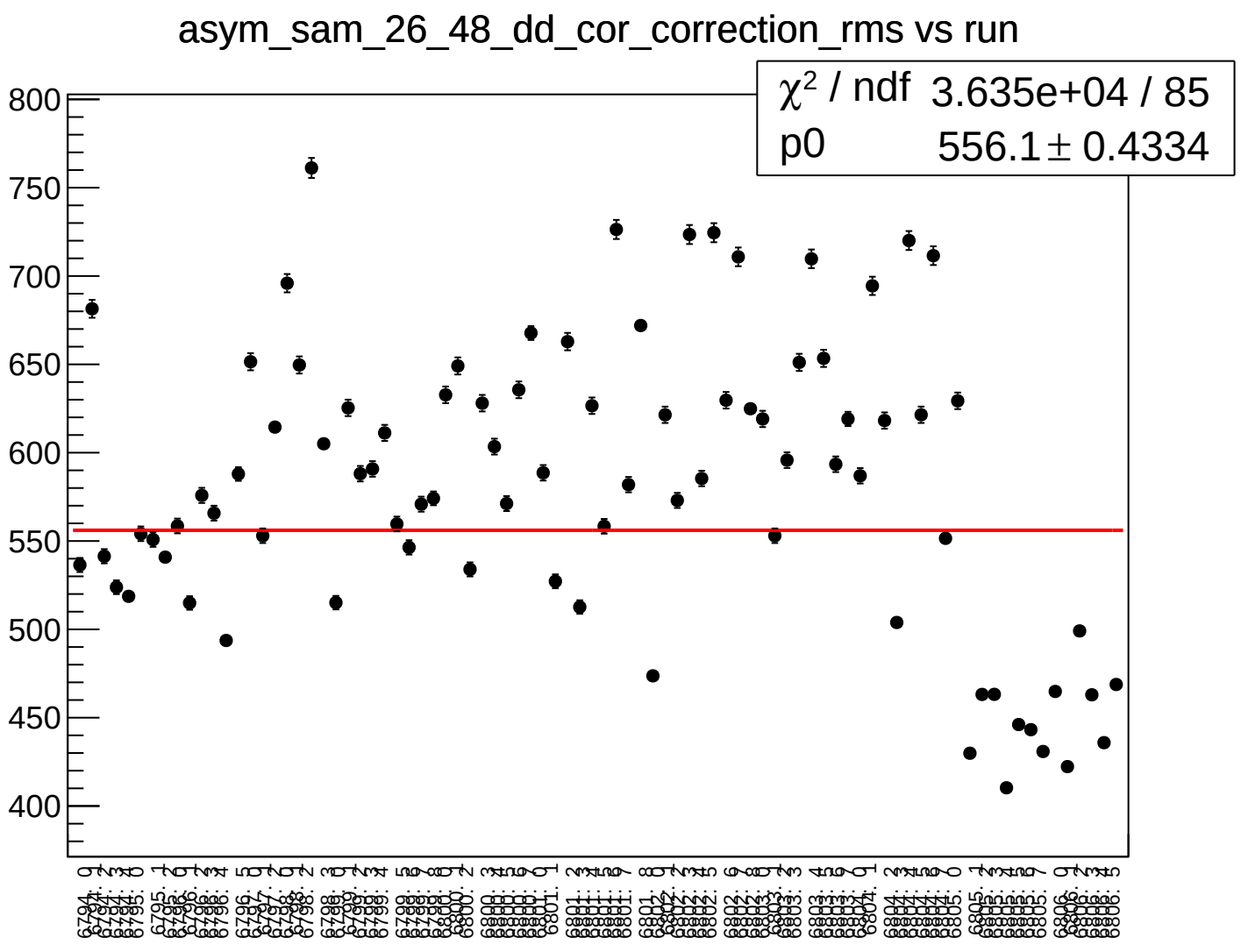

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 3.635e+04 / 85
p0 556.1 ± 0.4334
800
750
700
650
600
550
500
450
400

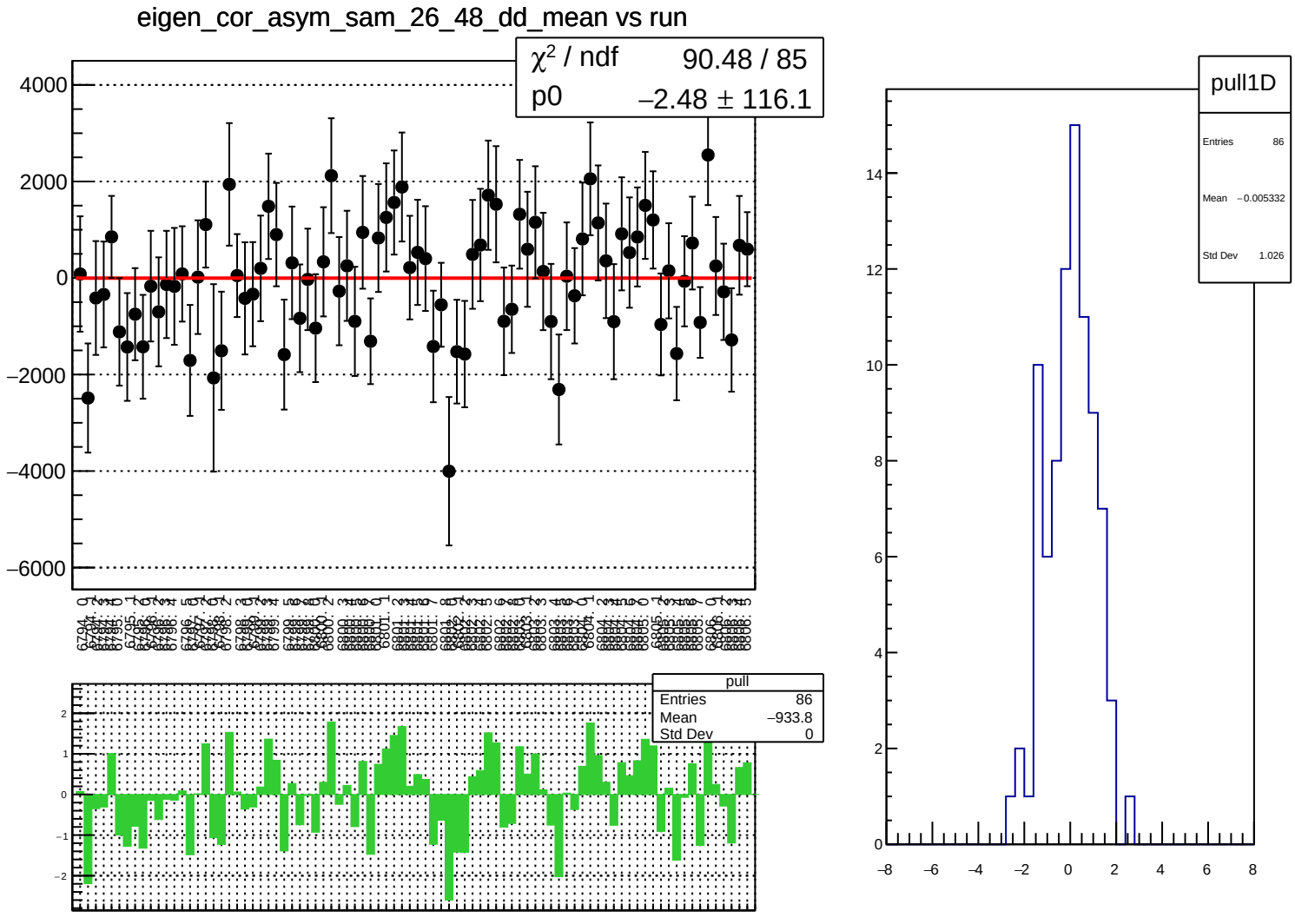

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.48 / 85
p0 −2.48 ± 116.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −933.8
Std Dev 0
2
1
0
−1
−2

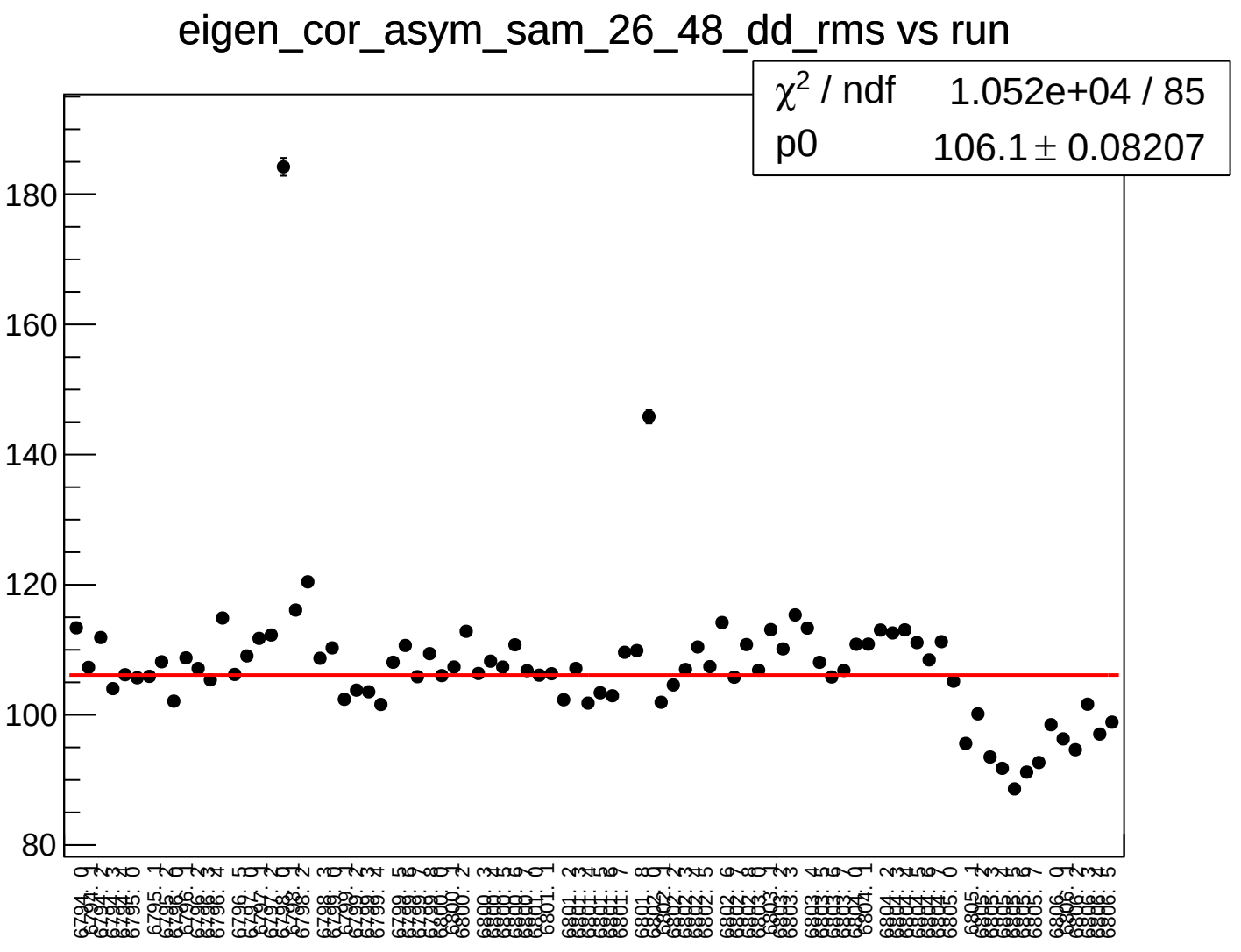

pull1D
Entries 86
Mean −0.005332
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

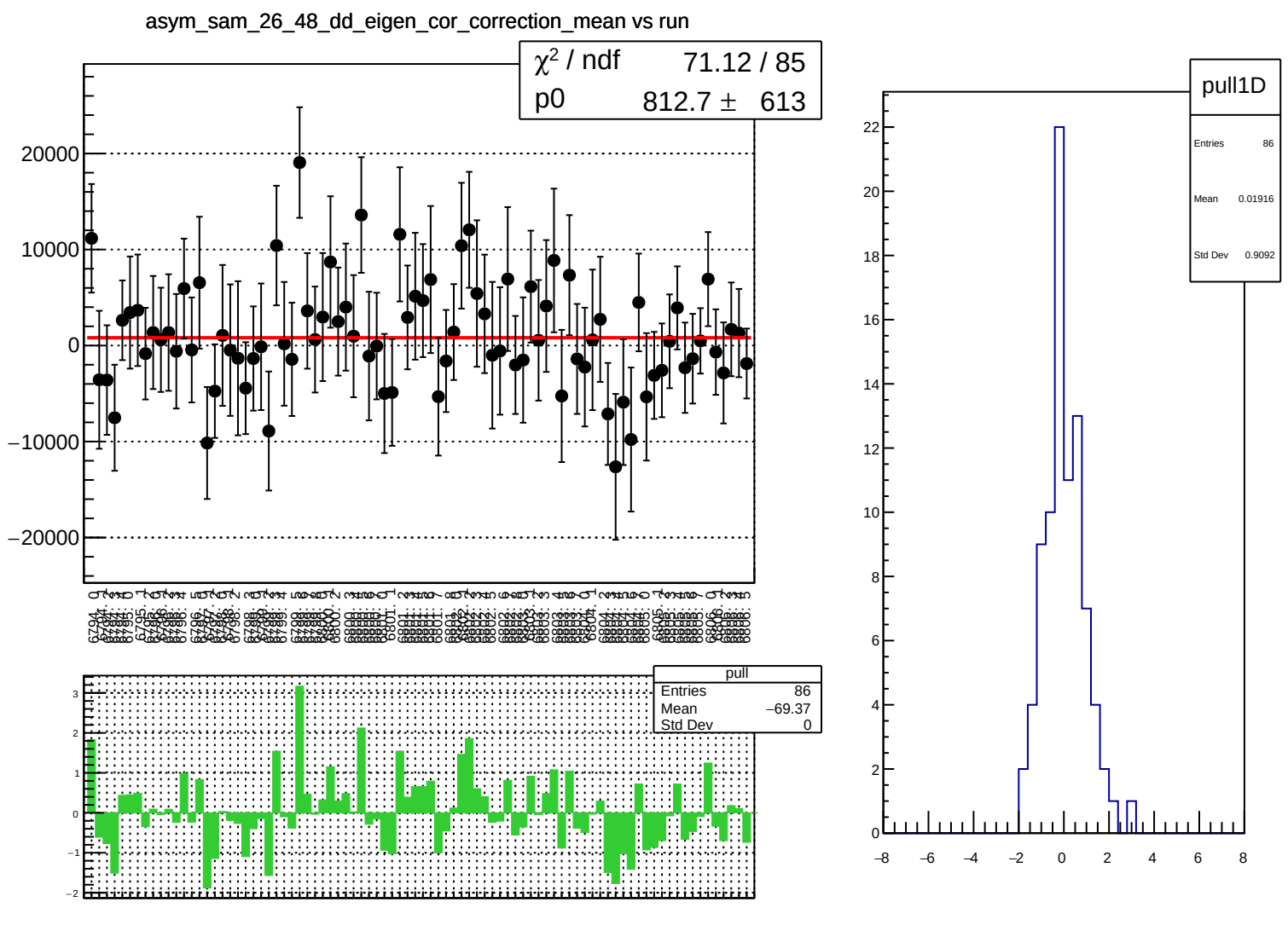

cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.052e+04 / 85
p0 106.1 ± 0.08207
180
160
140
120
100
80

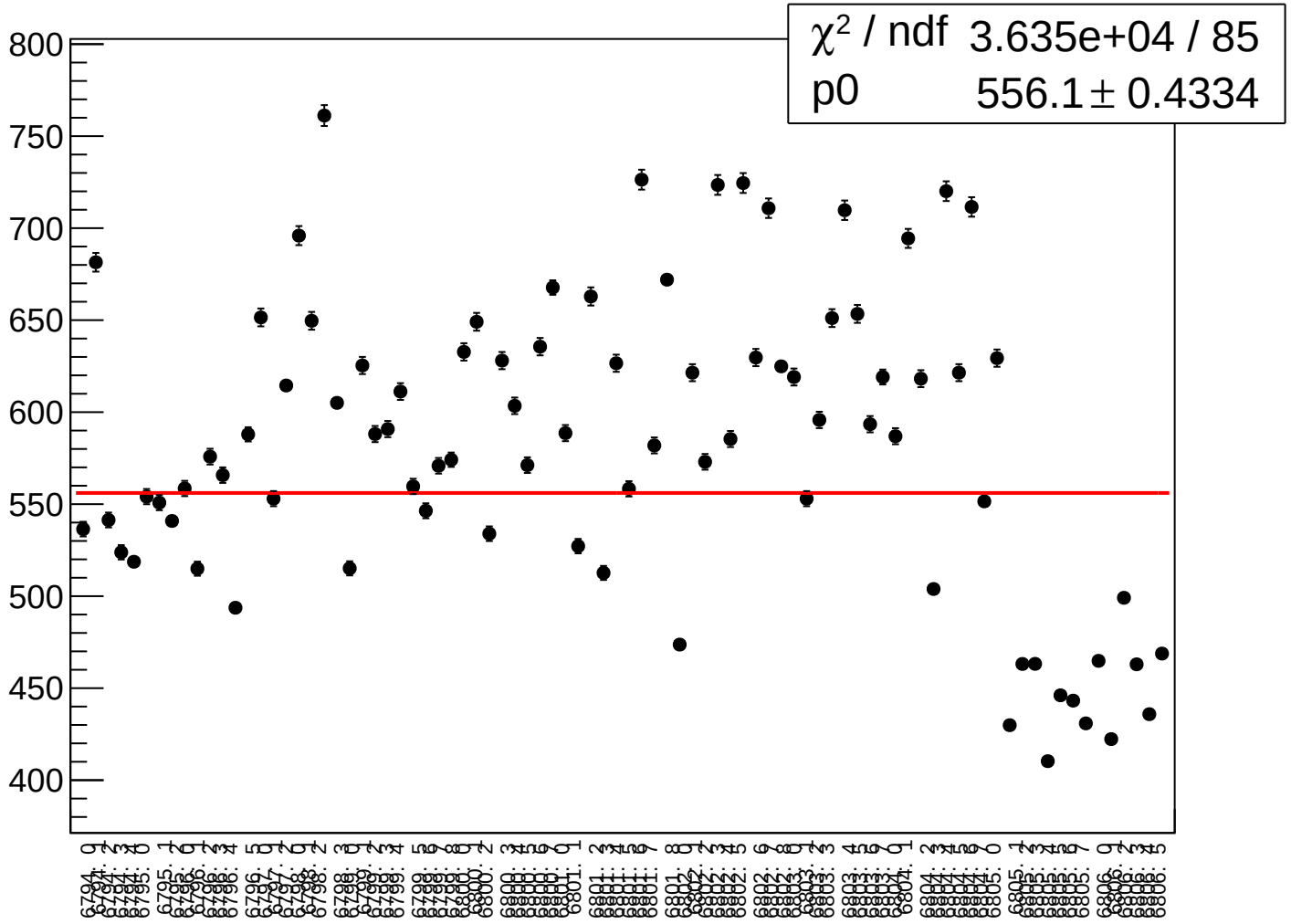

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 71.12 / 85
p0 812.7 ± 613
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −69.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01916
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

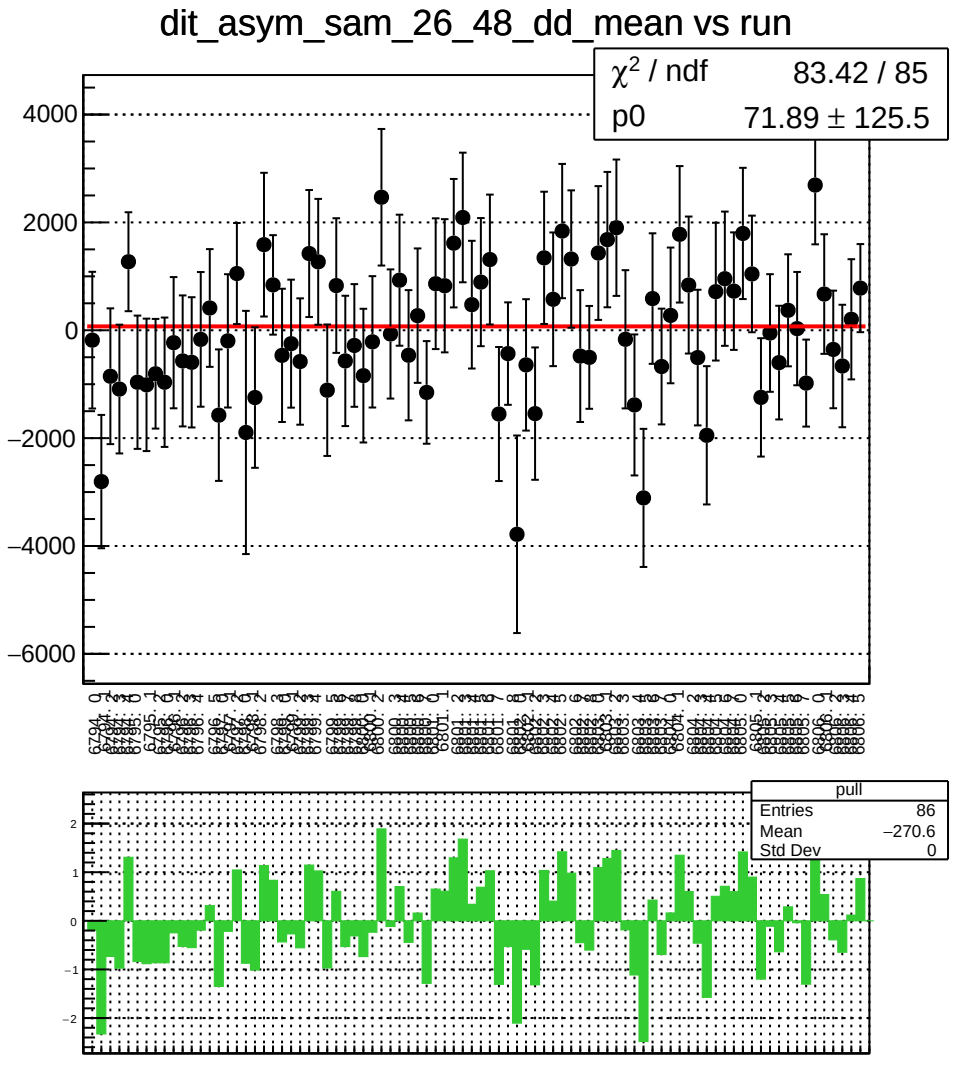

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 3.635e+04 / 85
p0 556.1 ± 0.4334
800
750
700
650
600
550
500
450
400

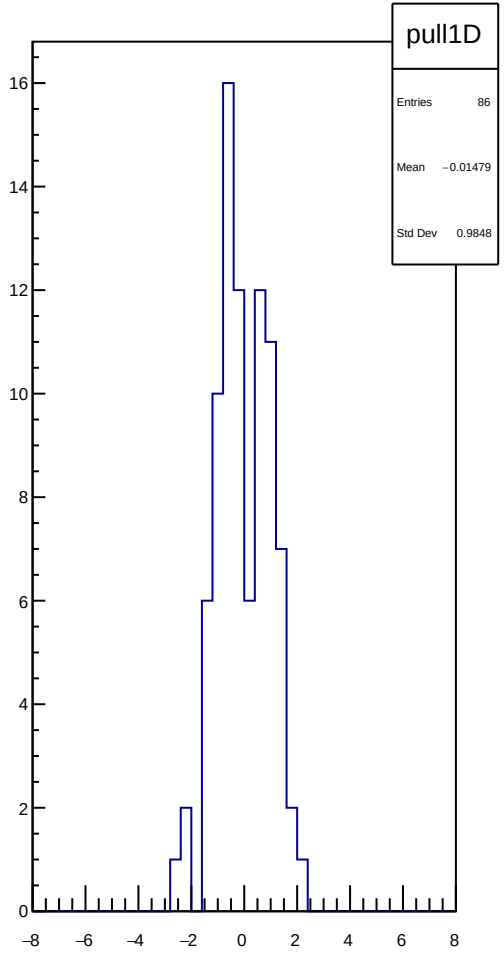

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 90.48 / 85
p0 −2.48 ± 116.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −933.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.005332
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

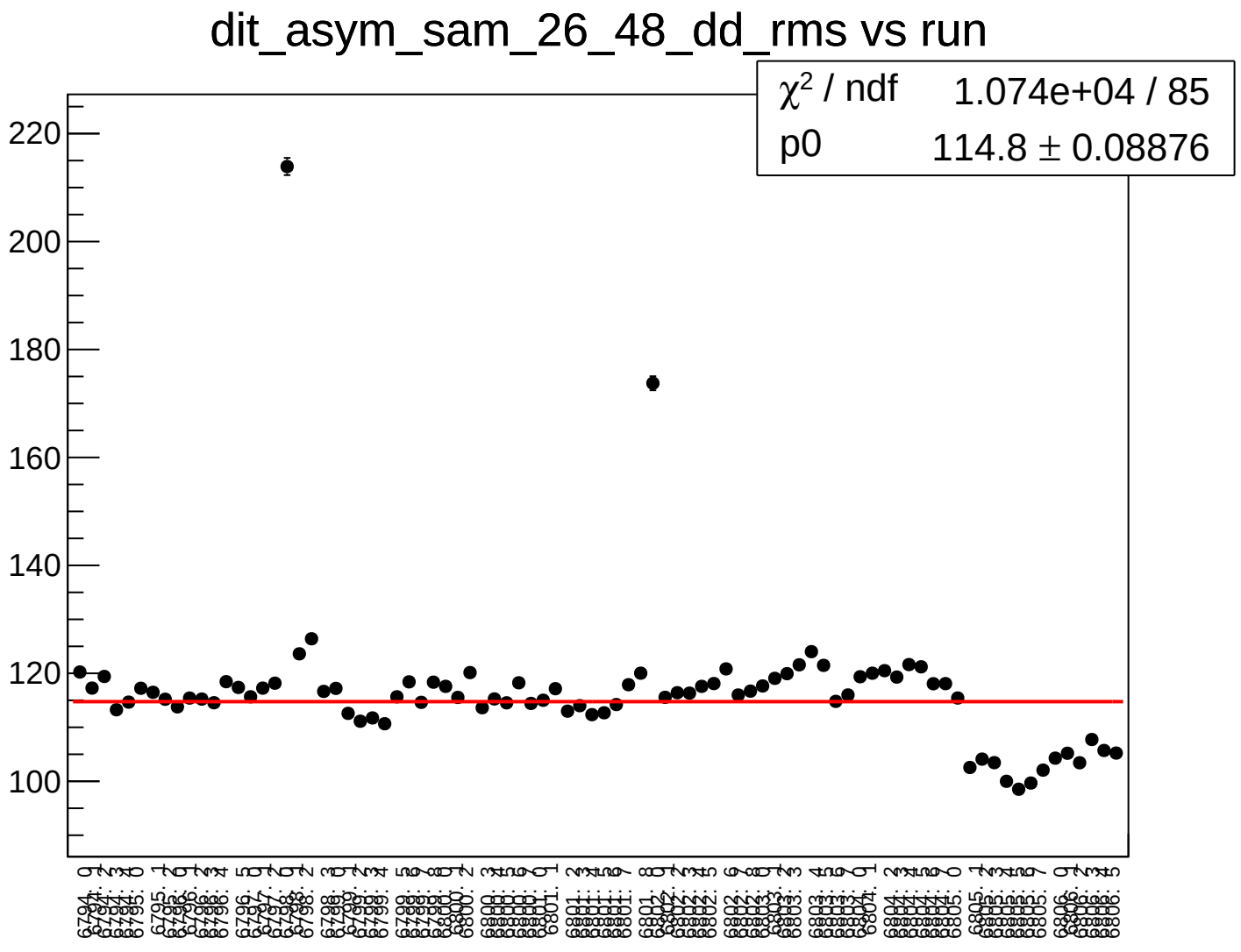

eigen_cor_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.052e+04 / 85
p0 106.1 ± 0.08207
180
160
140
120
100
80

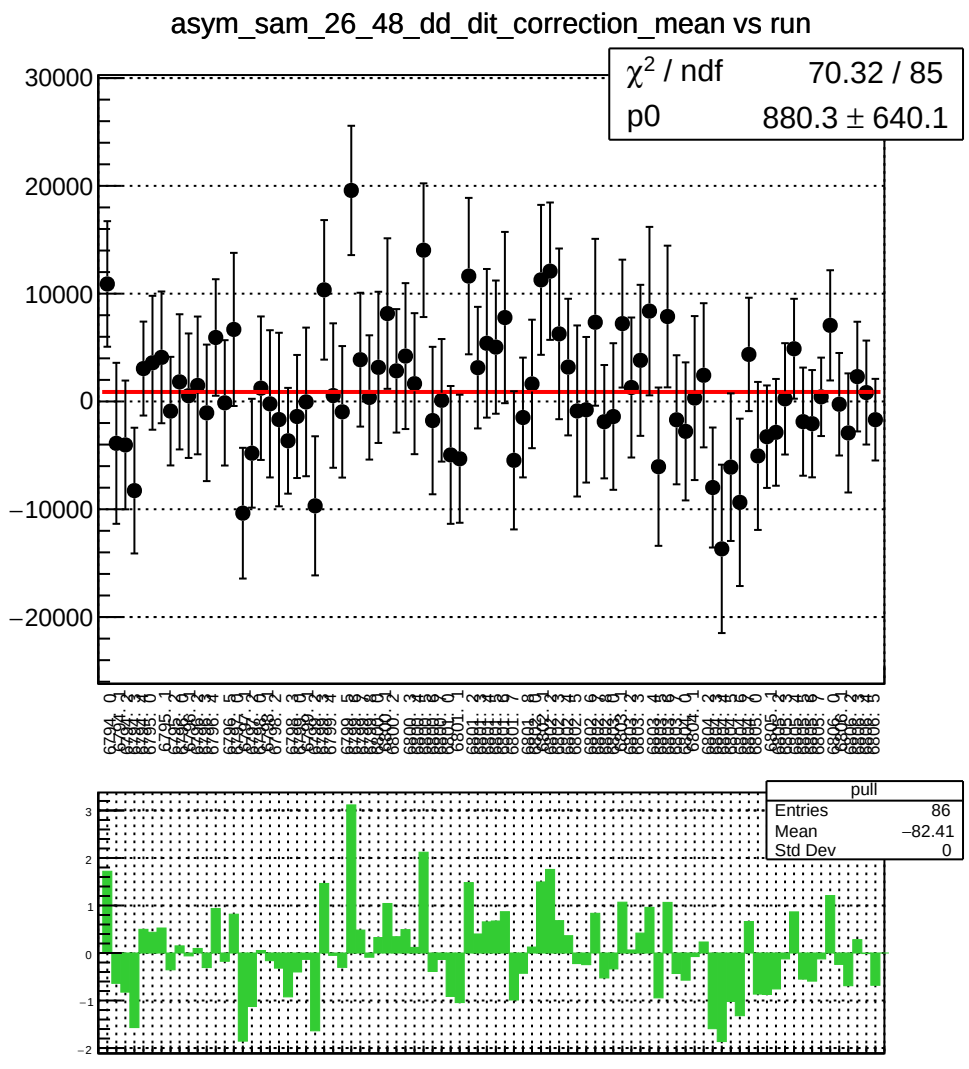

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.12 / 85
p0 812.7 ± 613
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −69.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01916
Std Dev 0.9092
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

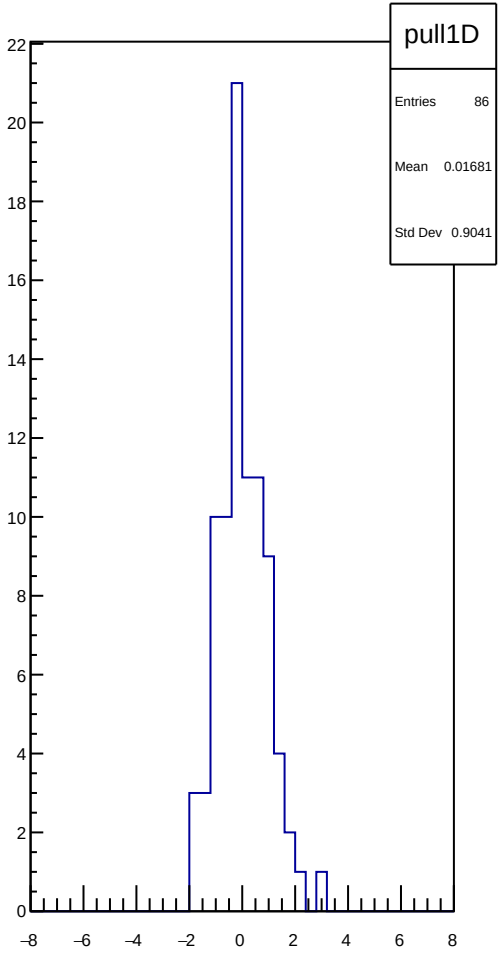

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.635e+04 / 85
p0 556.1 ± 0.4334
800
750
700
650
600
550
500
450
400

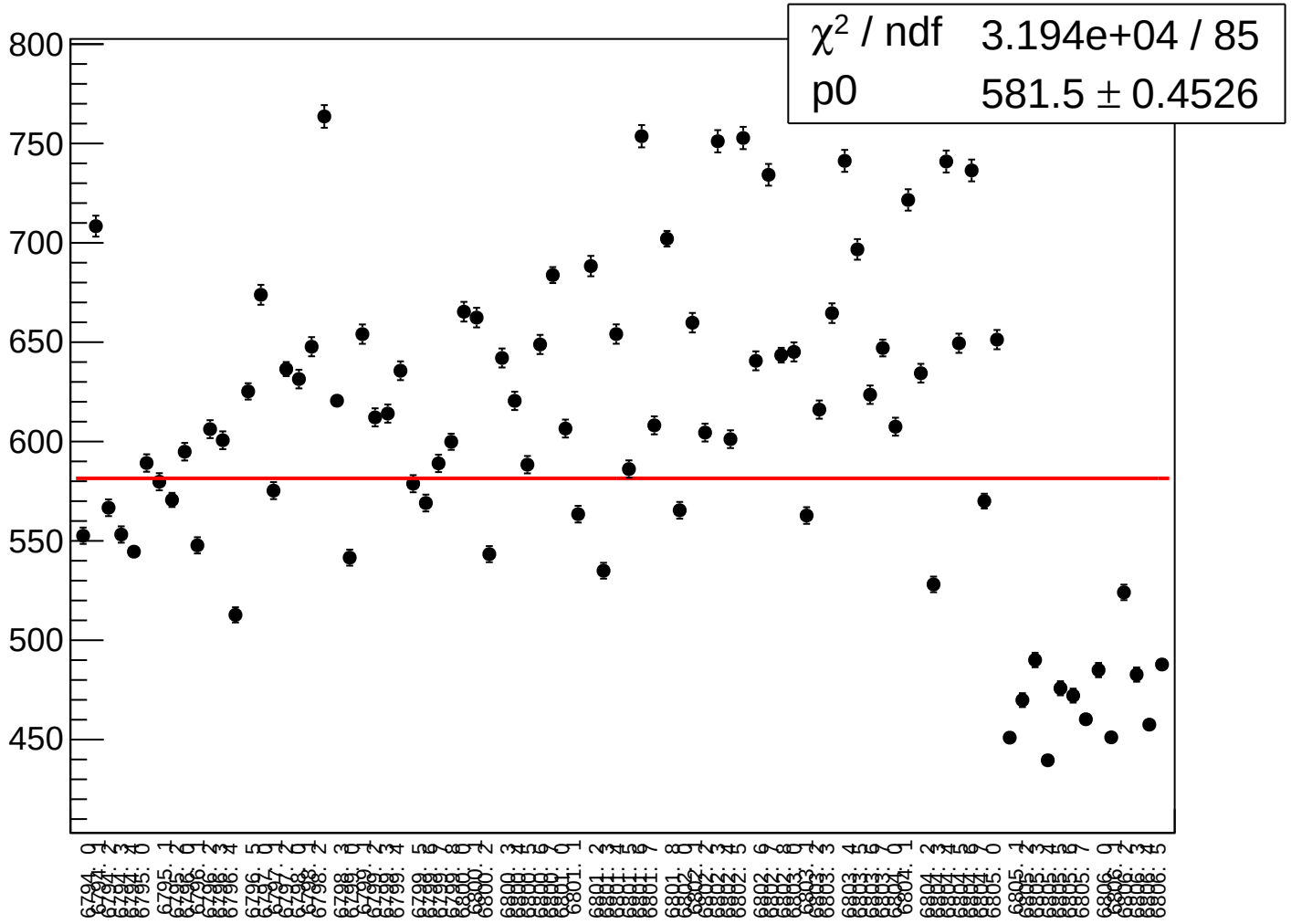

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.42 / 85
p0 71.89 ± 125.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −270.6
Std Dev 0
2
1
0
−1
−2

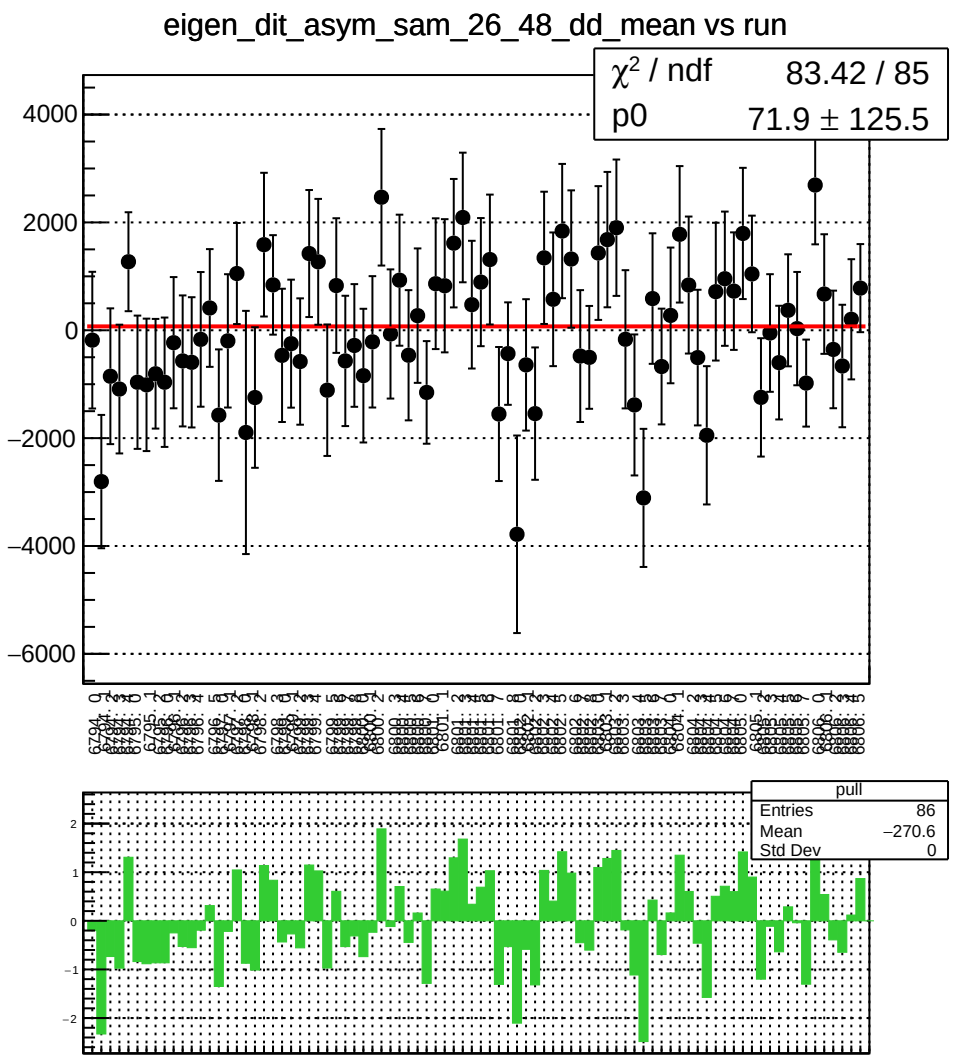

pull1D
Entries 86
Mean −0.01479
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

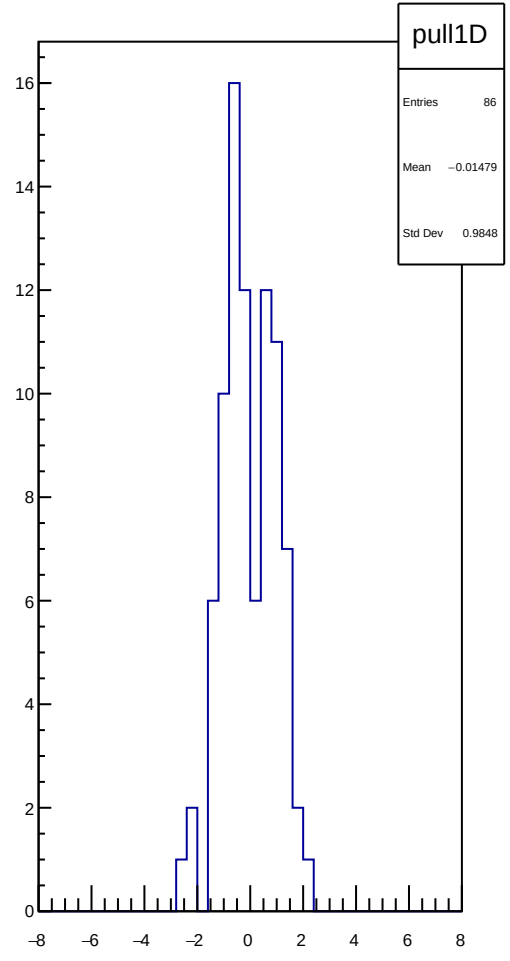

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.074e+04 / 85
p0 114.8 ± 0.08876
220
200
180
160
140
120
100

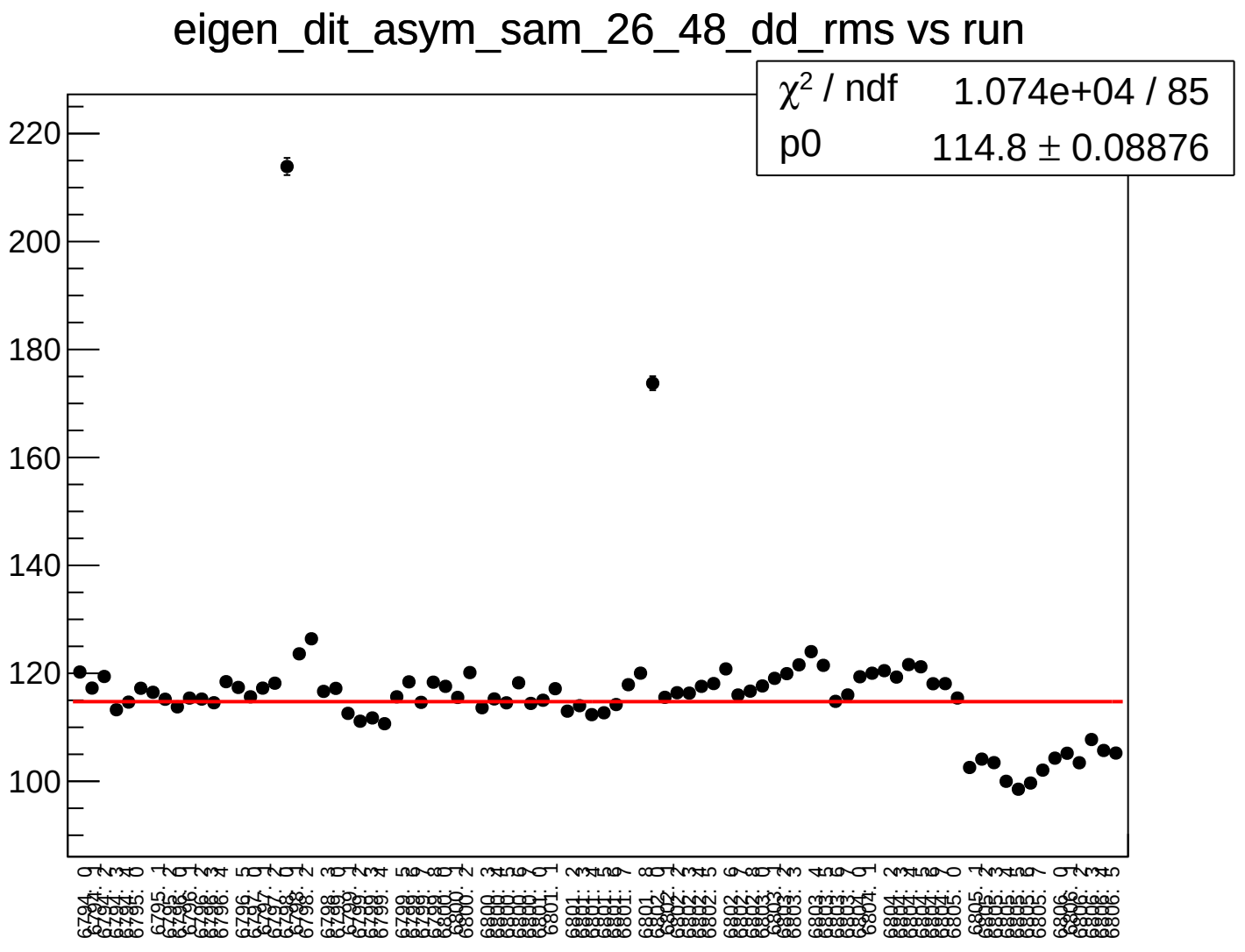

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 70.32 / 85
p0 880.3 ± 640.1
pull
Entries 86
Mean −82.41
Std Dev 0

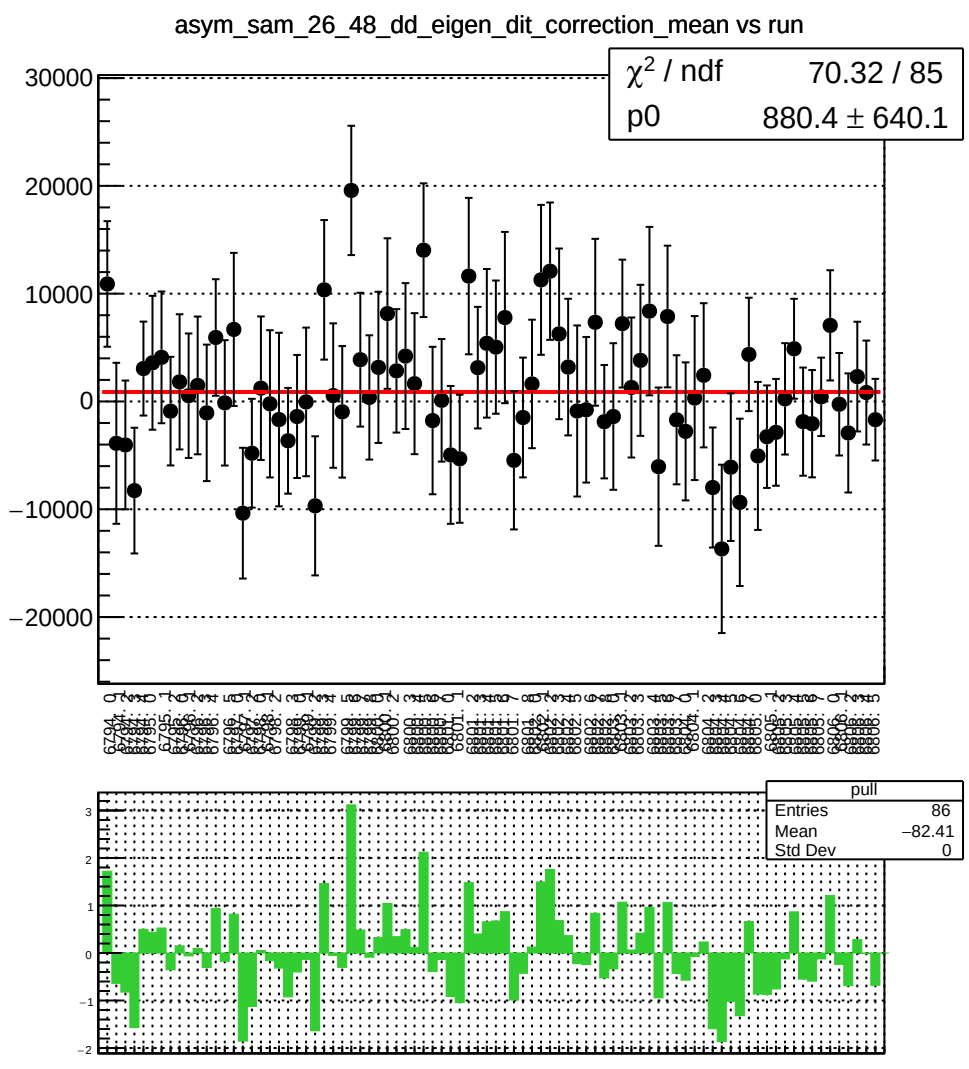

pull1D
Entries 86
Mean 0.01681
Std Dev 0.9041

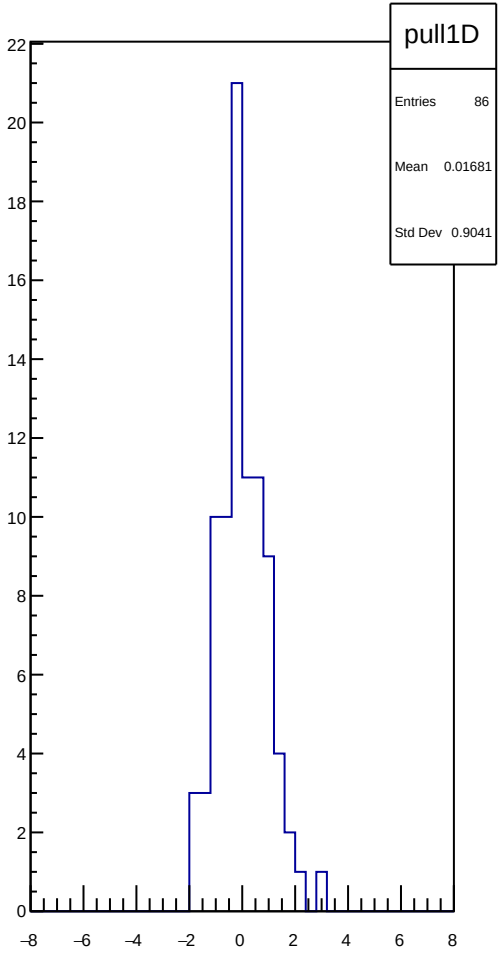

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 3.194e+04 / 85
p0 581.5 ± 0.4526
800
750
700
650
600
550
500
450

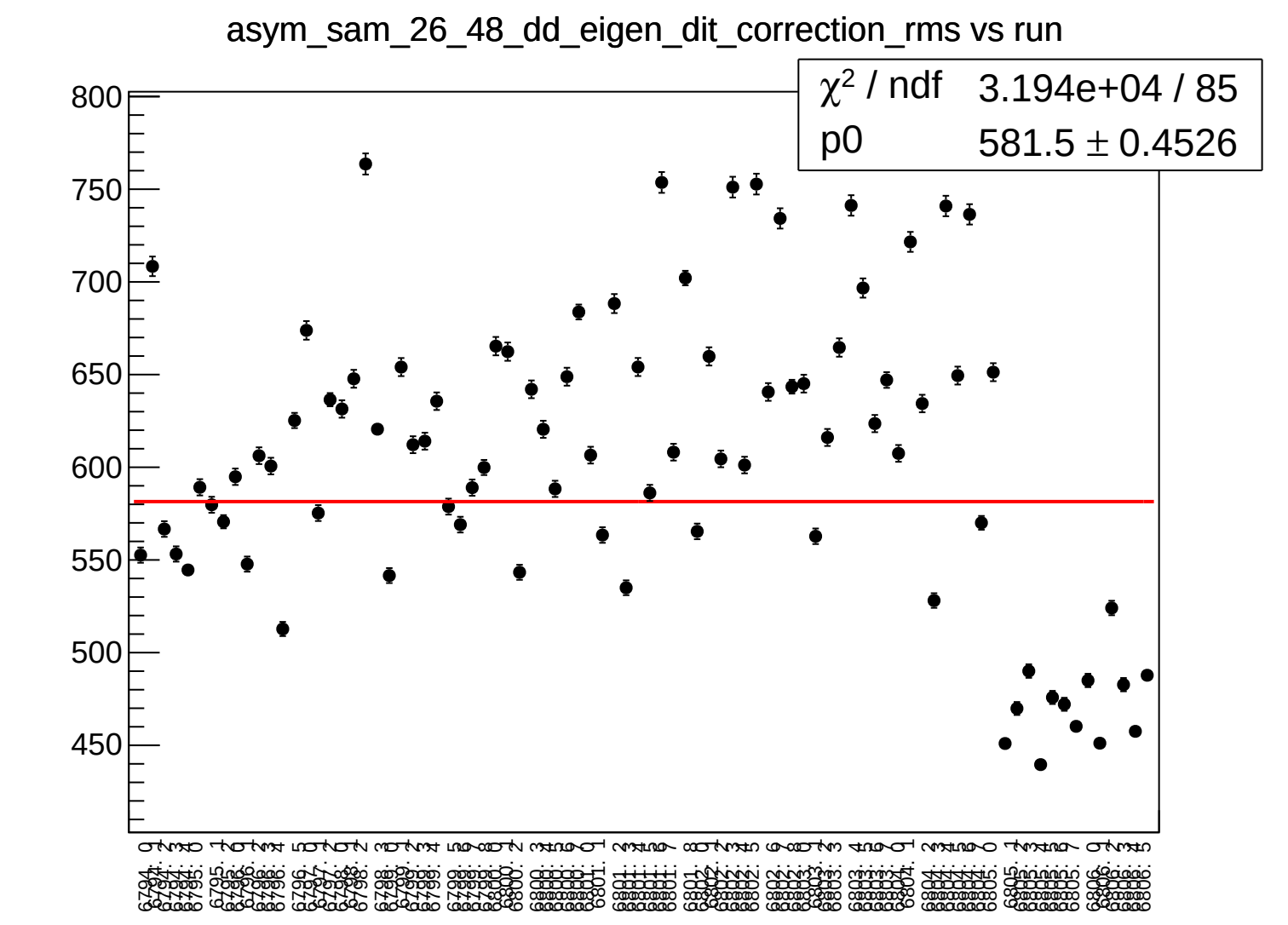

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 83.42 / 85
p0 71.9 ± 125.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −270.6
Std Dev 0
2
1
0
−1
−2

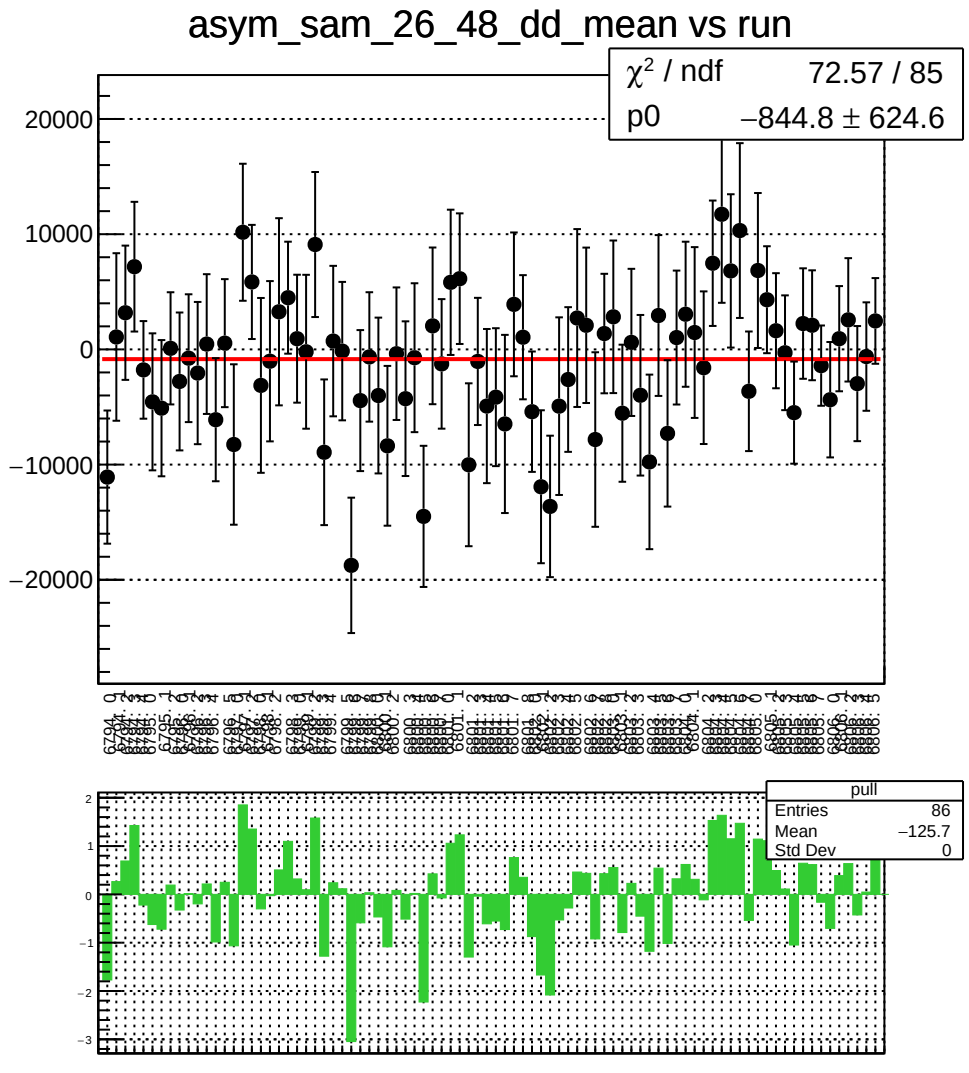

pull1D
Entries 86
Mean −0.01479
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

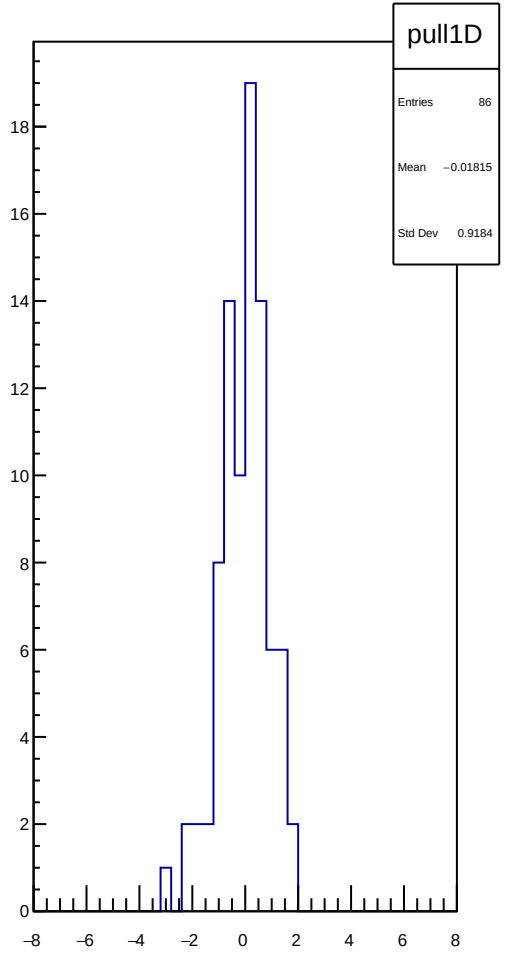

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.074e+04 / 85
p0 114.8 ± 0.08876
220
200
180
160
140
120
100

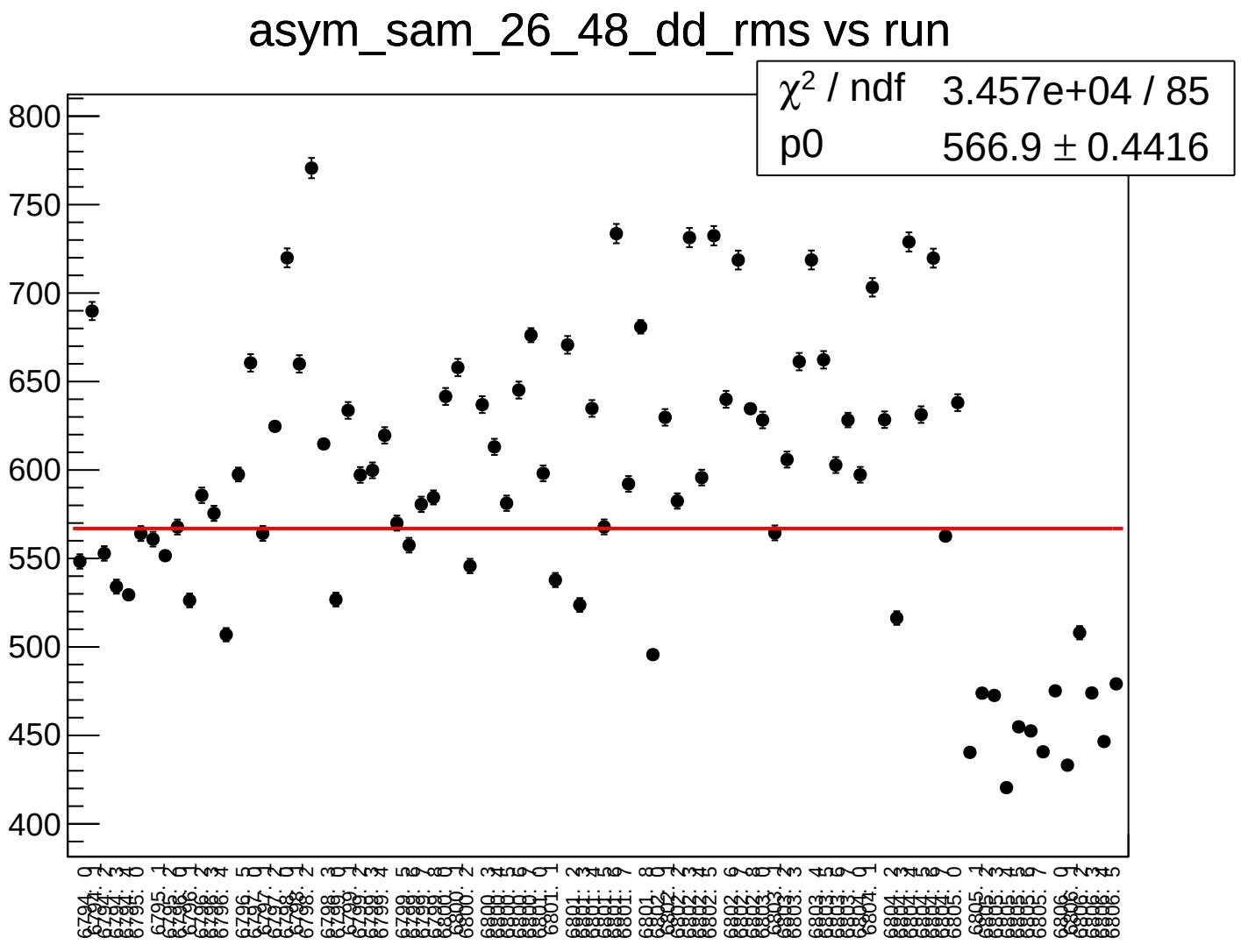

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.32 / 85
p0 880.4 ± 640.1
pull
Entries 86
Mean −82.41
Std Dev 0

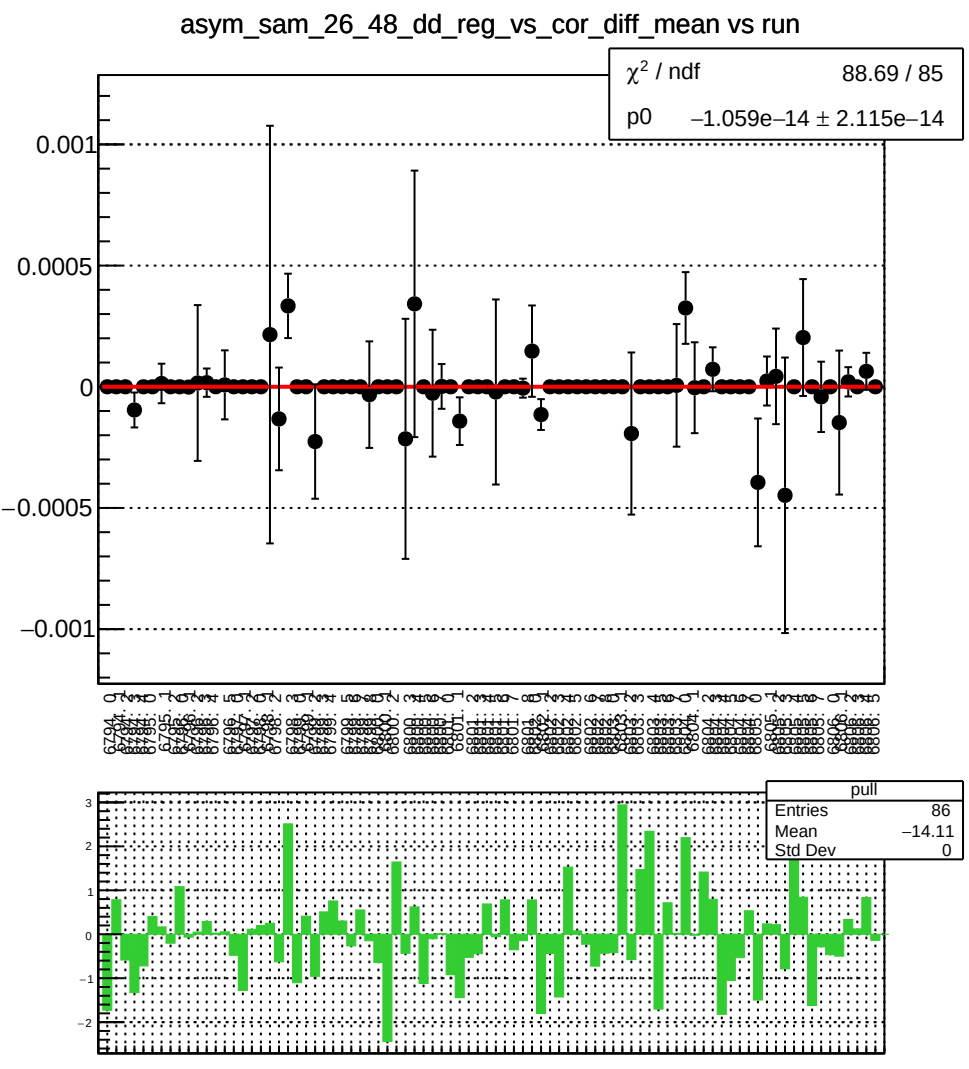

pull1D
Entries 86
Mean 0.01681
Std Dev 0.9041

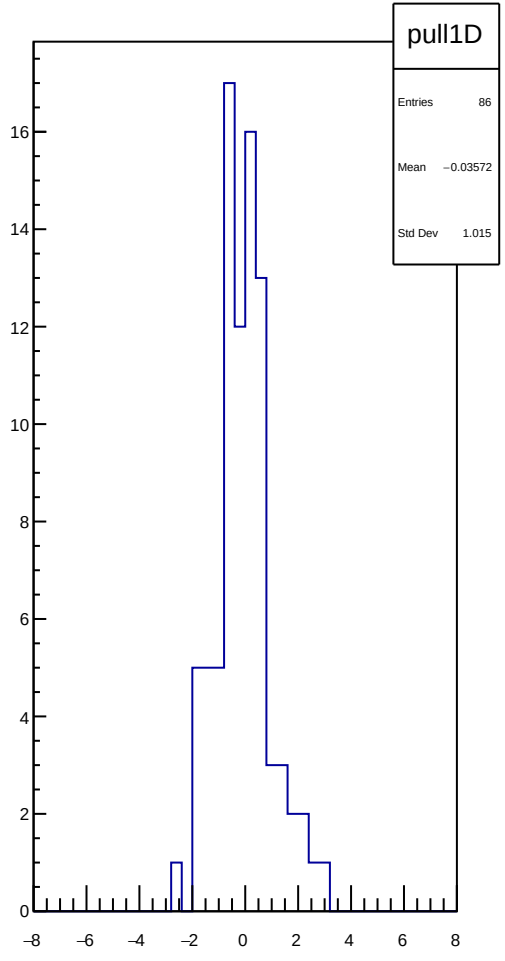

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.194e+04 / 85
p0 581.5 ± 0.4526
800
750
700
650
600
550
500
450

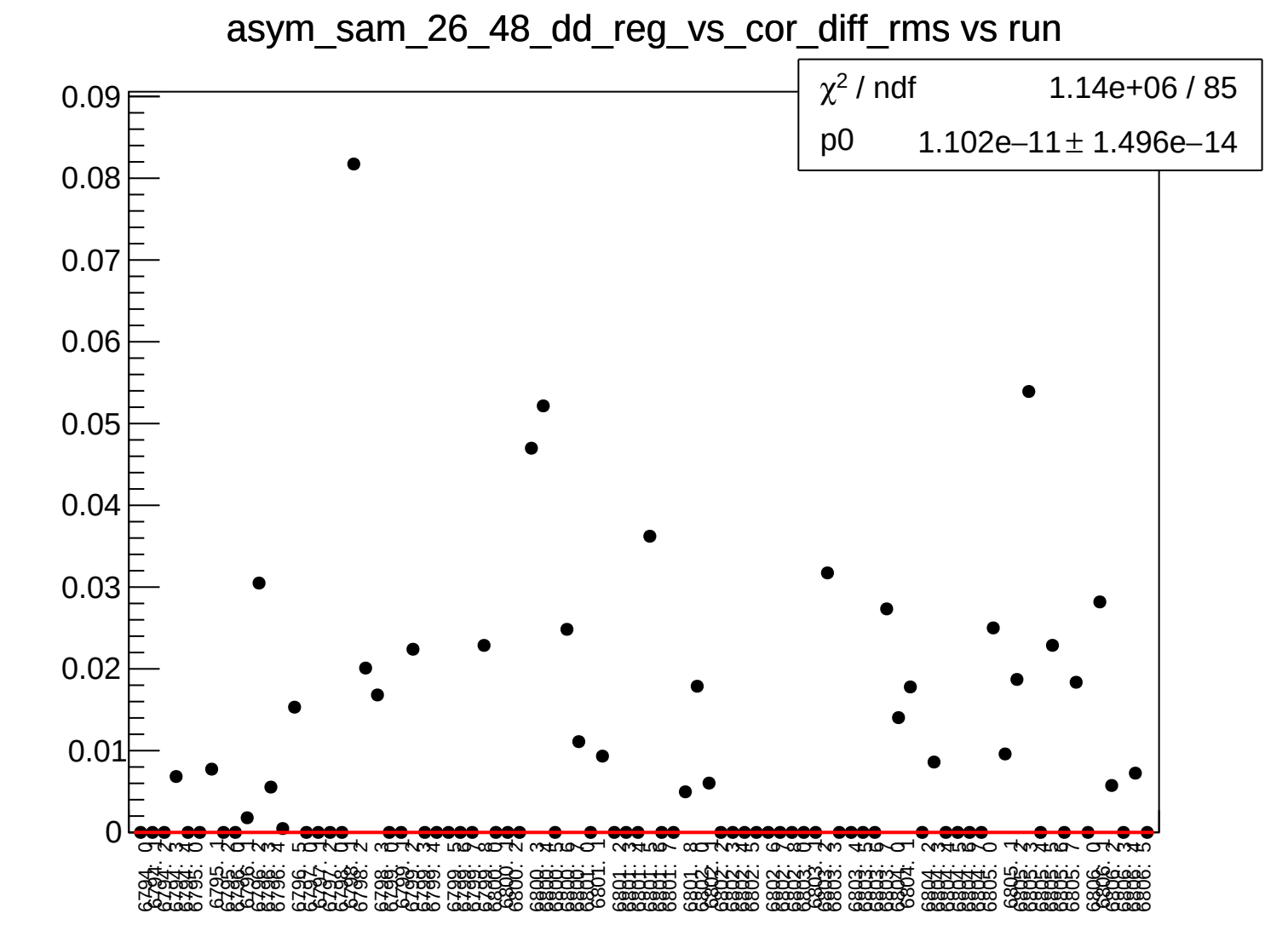

asym_sam_26_48_dd_mean vs run
χ² / ndf 72.57 / 85
p0 −844.8 ± 624.6
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −125.7
Std Dev 0
2
1
0
−1
−2
−3

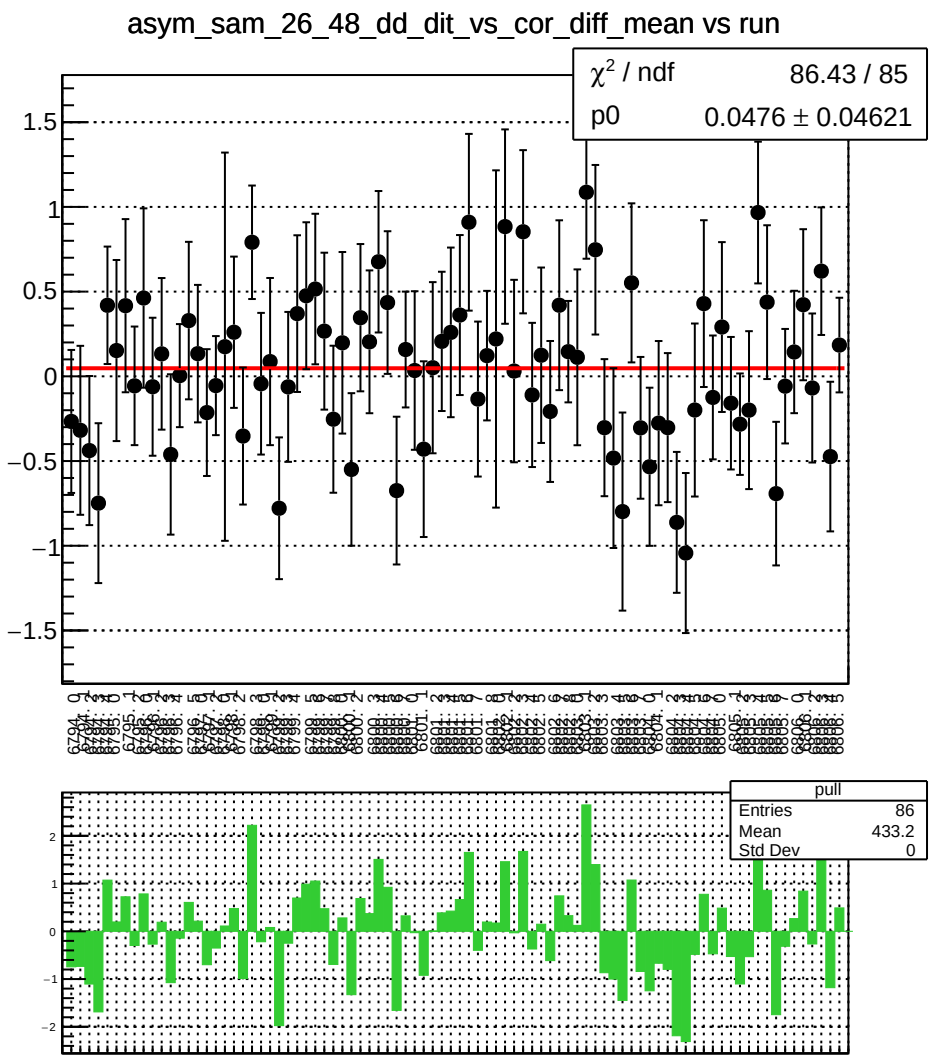

pull1D
Entries 86
Mean −0.01815
Std Dev 0.9184
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

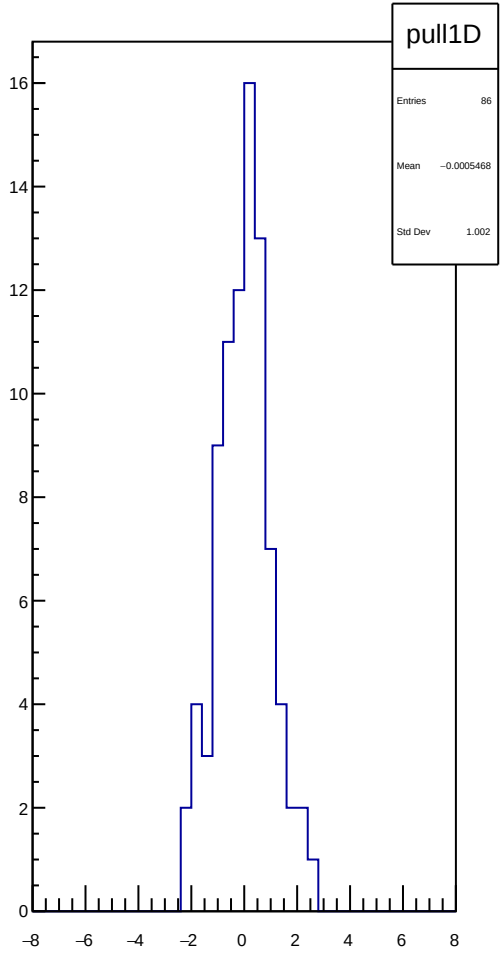

asym_sam_26_48_dd_rms vs run
χ² / ndf 3.457e+04 / 85
p0 566.9 ± 0.4416
800
750
700
650
600
550
500
450
400

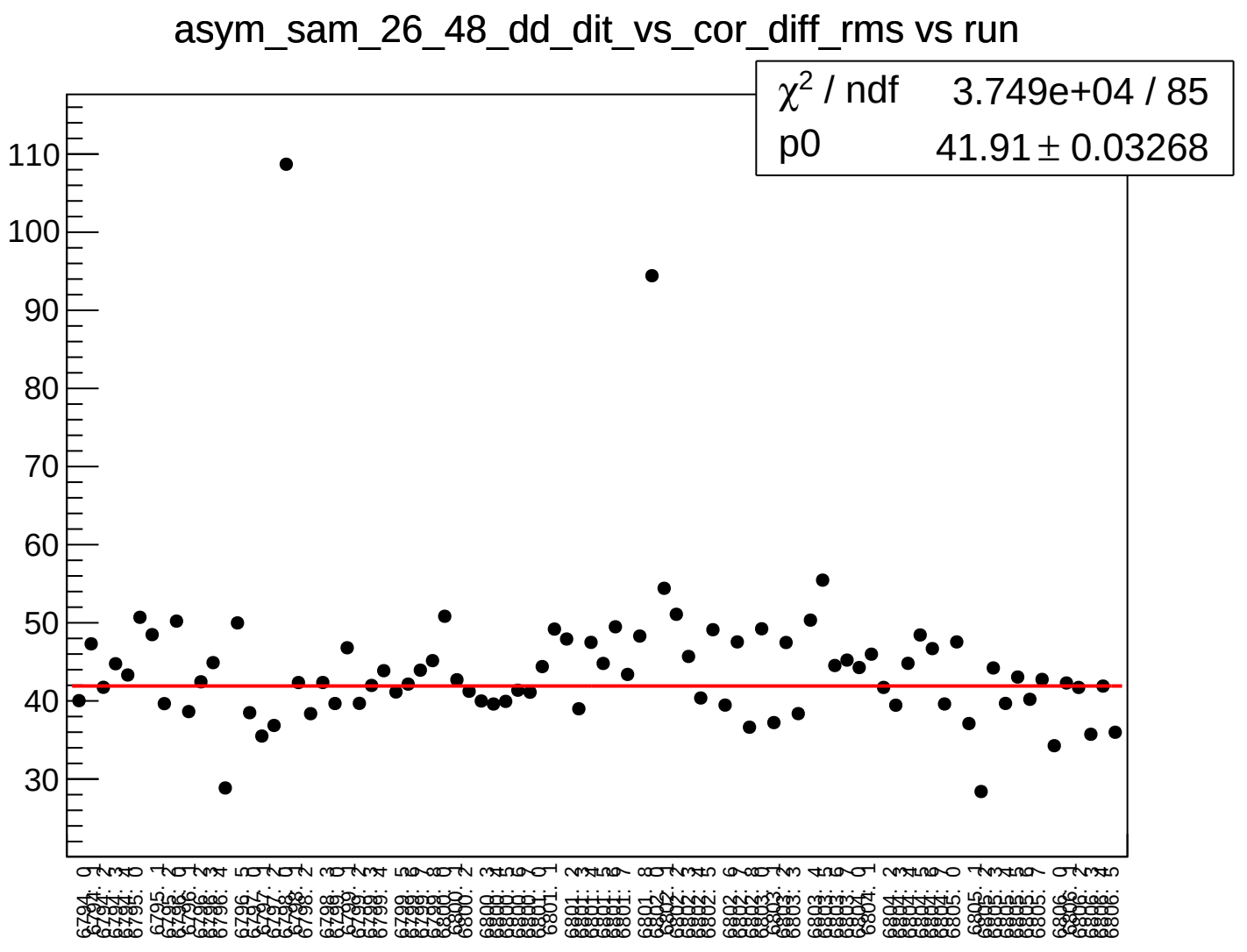

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.69 / 85
p0 −1.059e−14 ± 2.115e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −14.11
Std Dev 0
3
2
1
0
−1
−2

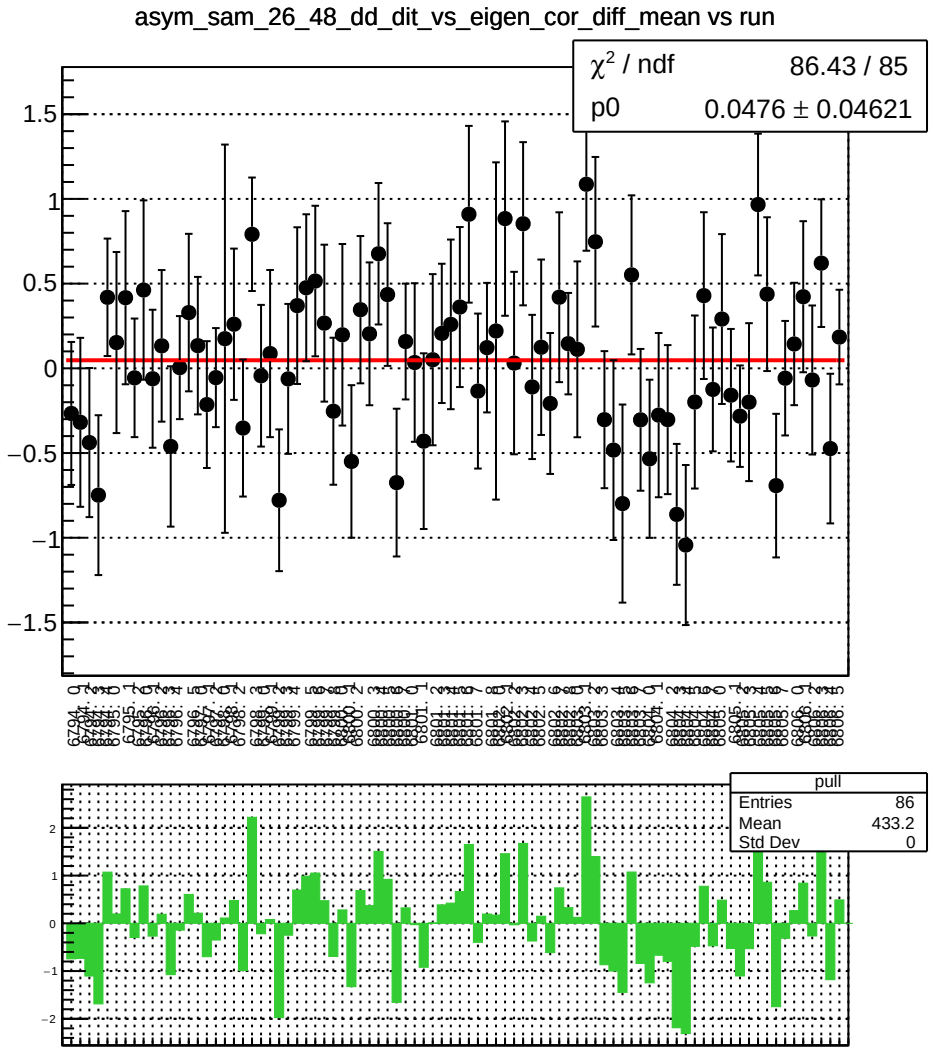

pull1D
Entries 86
Mean −0.03572
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

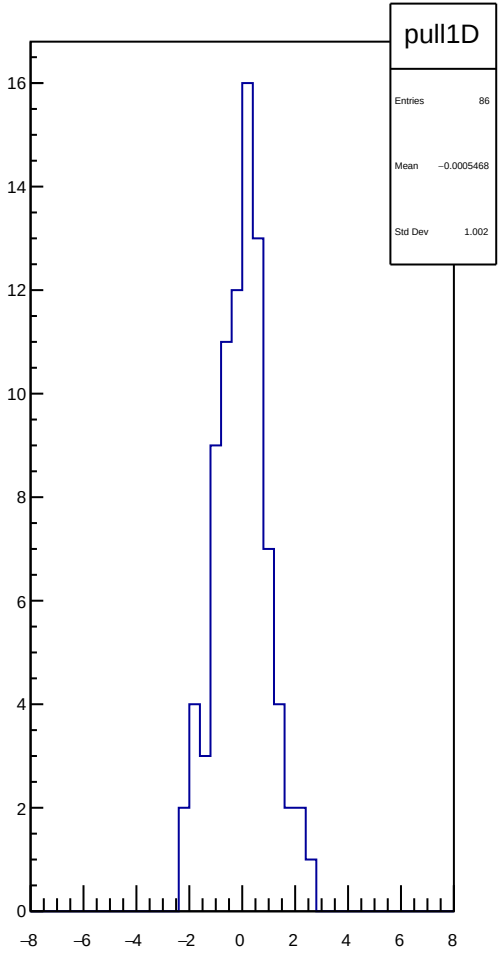

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 85
p0 1.102e−11 ± 1.496e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

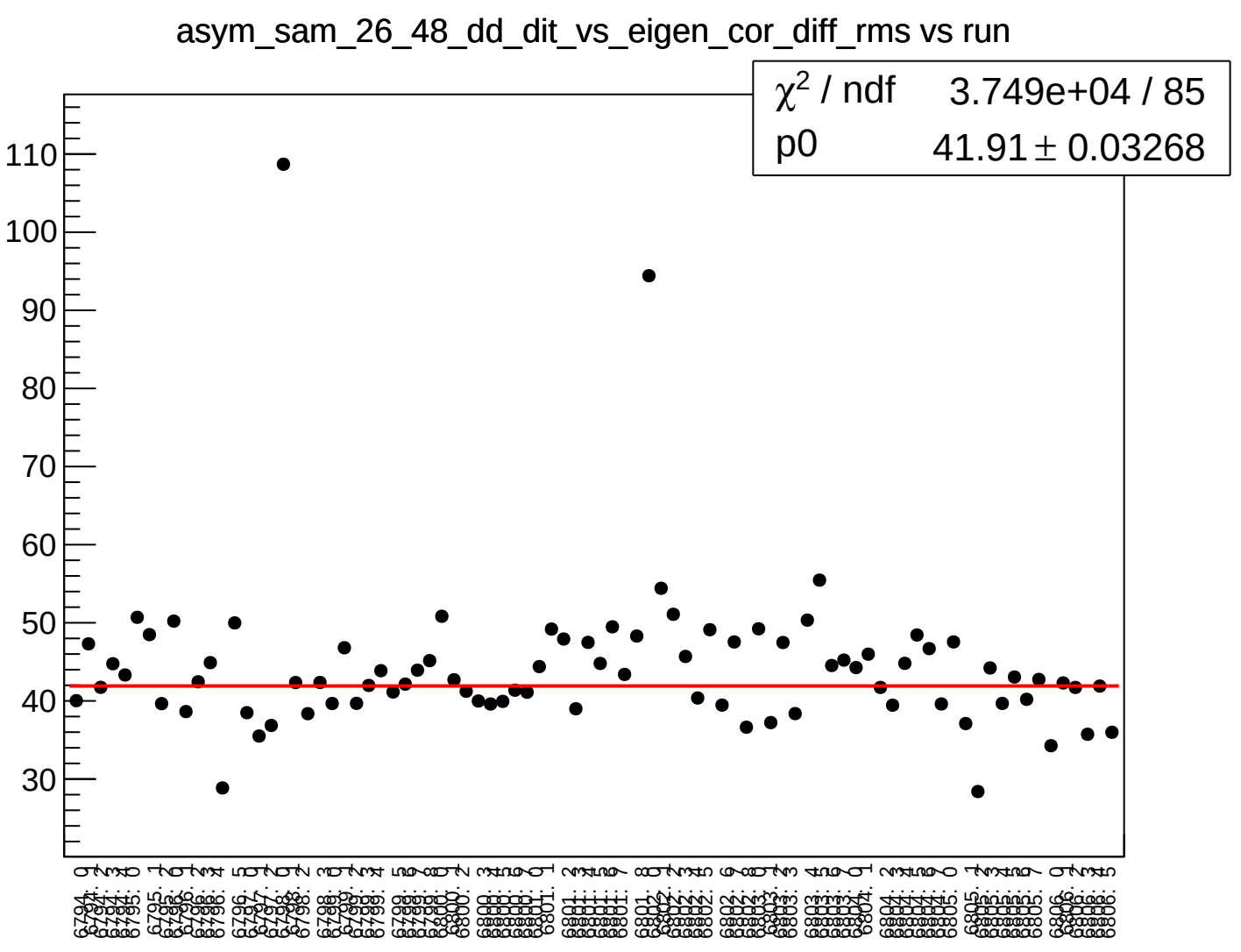

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.43 / 85
p0 0.0476 ± 0.04621
pull
Entries 86
Mean 433.2
Std Dev 0

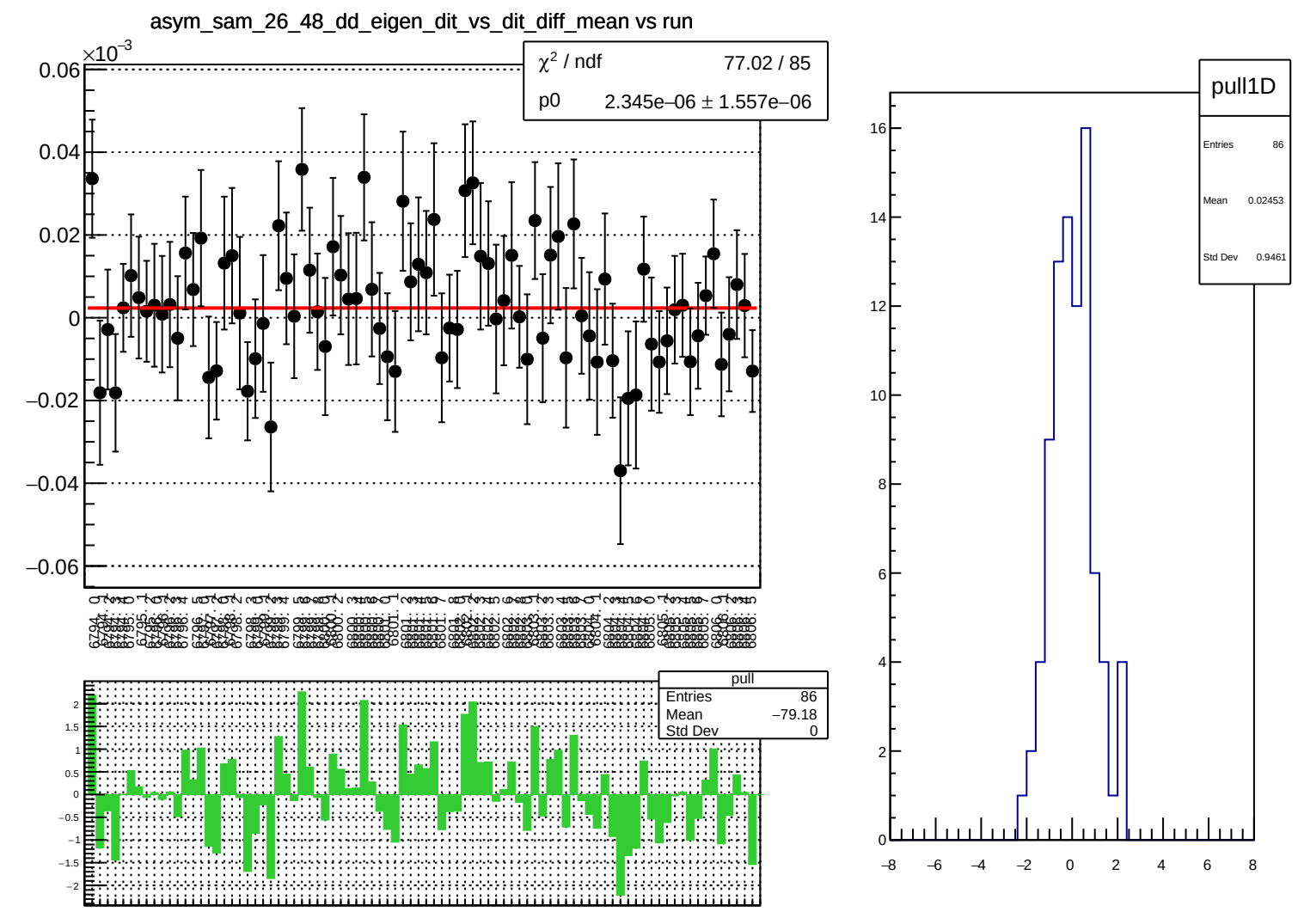

pull1D
Entries 86
Mean −0.0005468
Std Dev 1.002

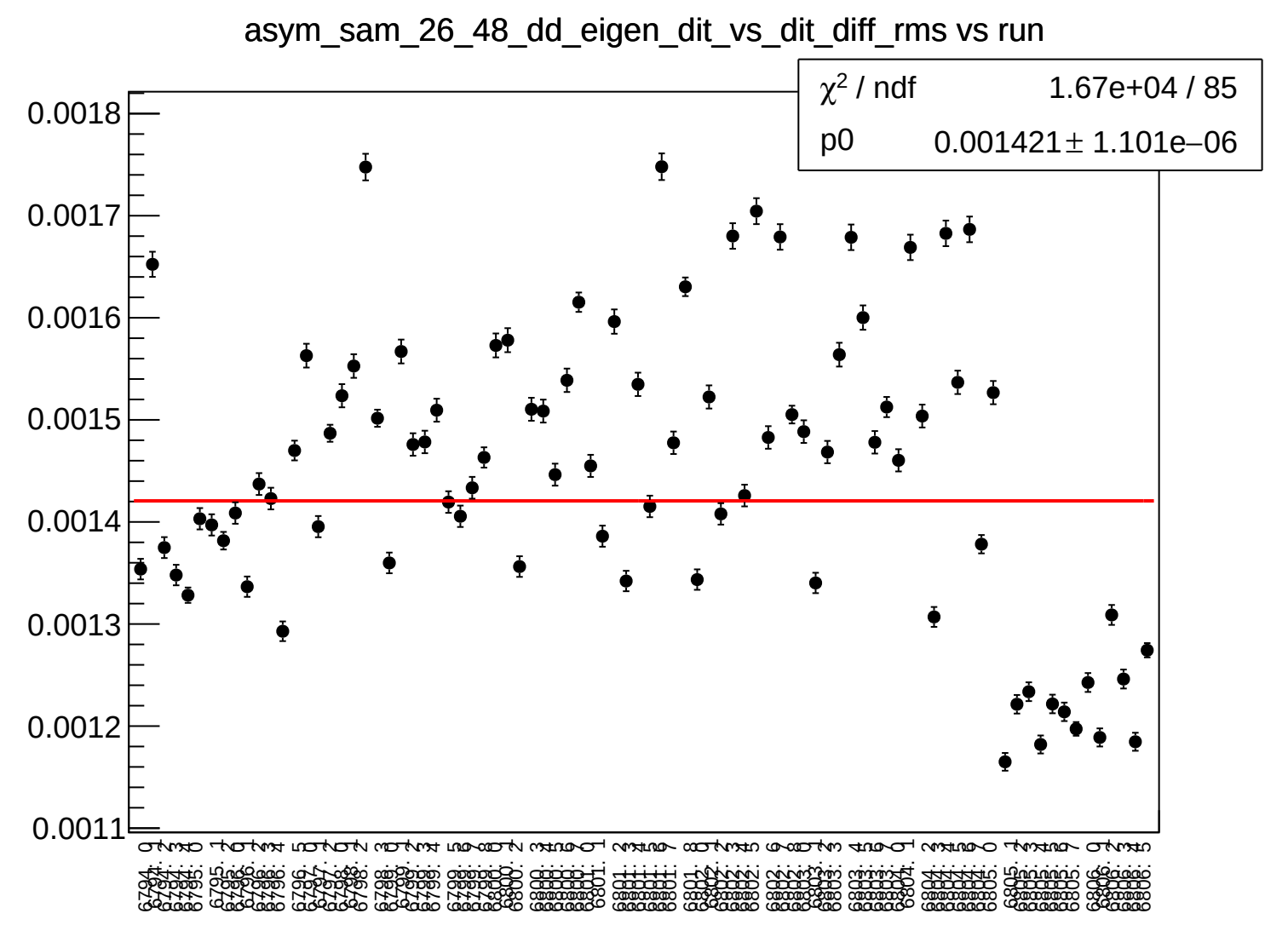

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.749e+04 / 85
p0 41.91 ± 0.03268
110
100
90
80
70
60
50
40
30

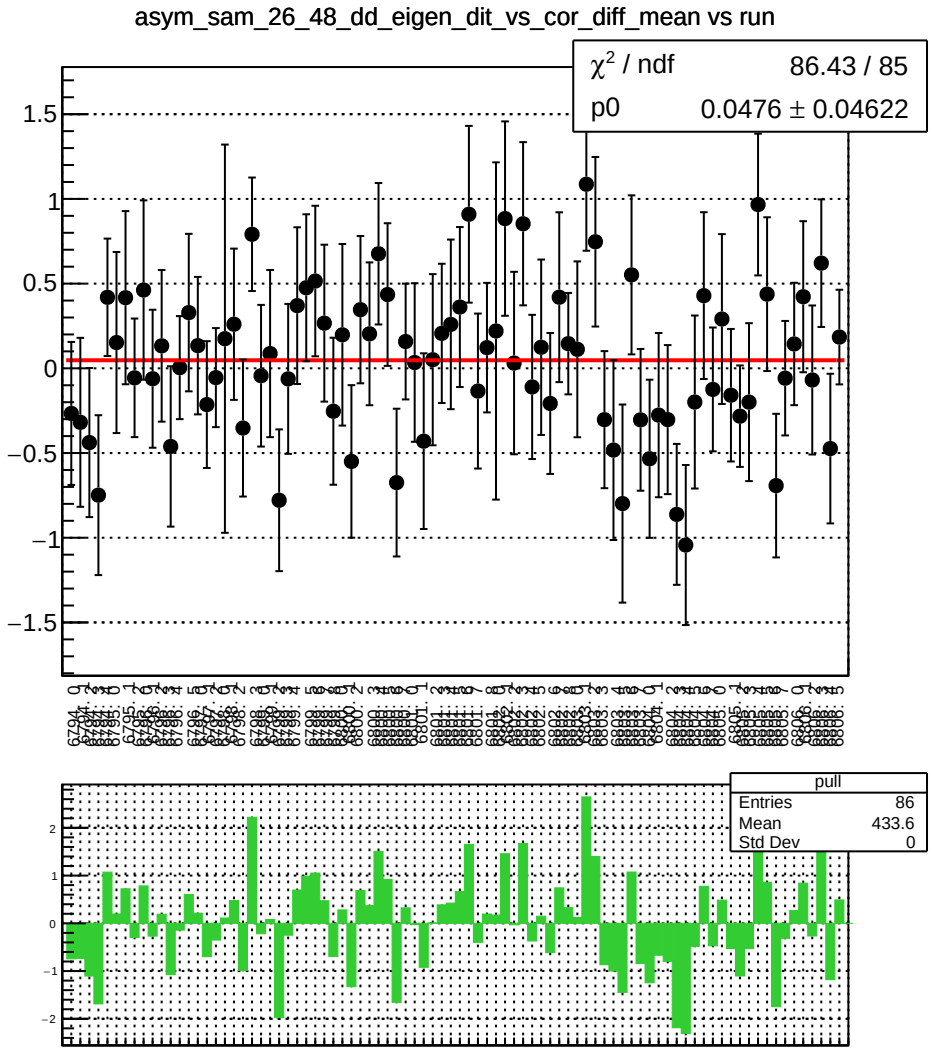

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.43 / 85
p0 0.0476 ± 0.04621
pull
Entries 86
Mean 433.2
Std Dev 0

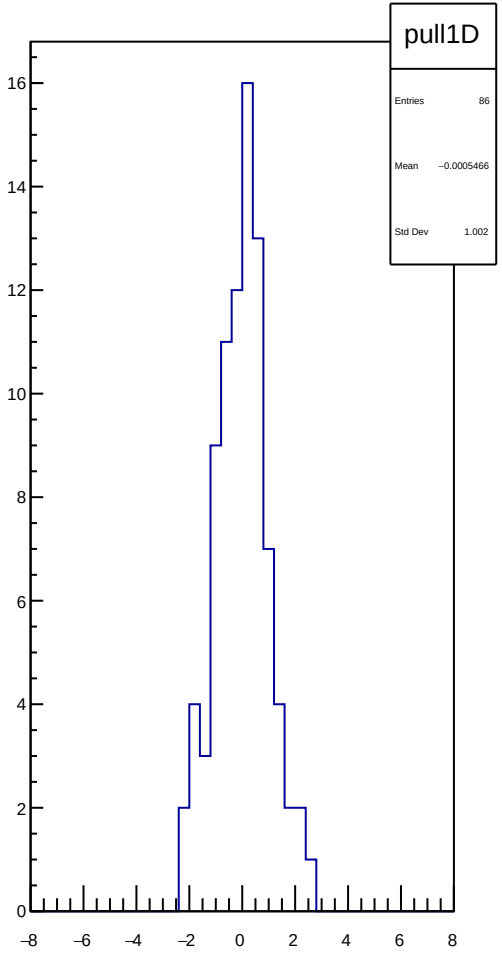

pull1D
Entries 86
Mean −0.0005468
Std Dev 1.002

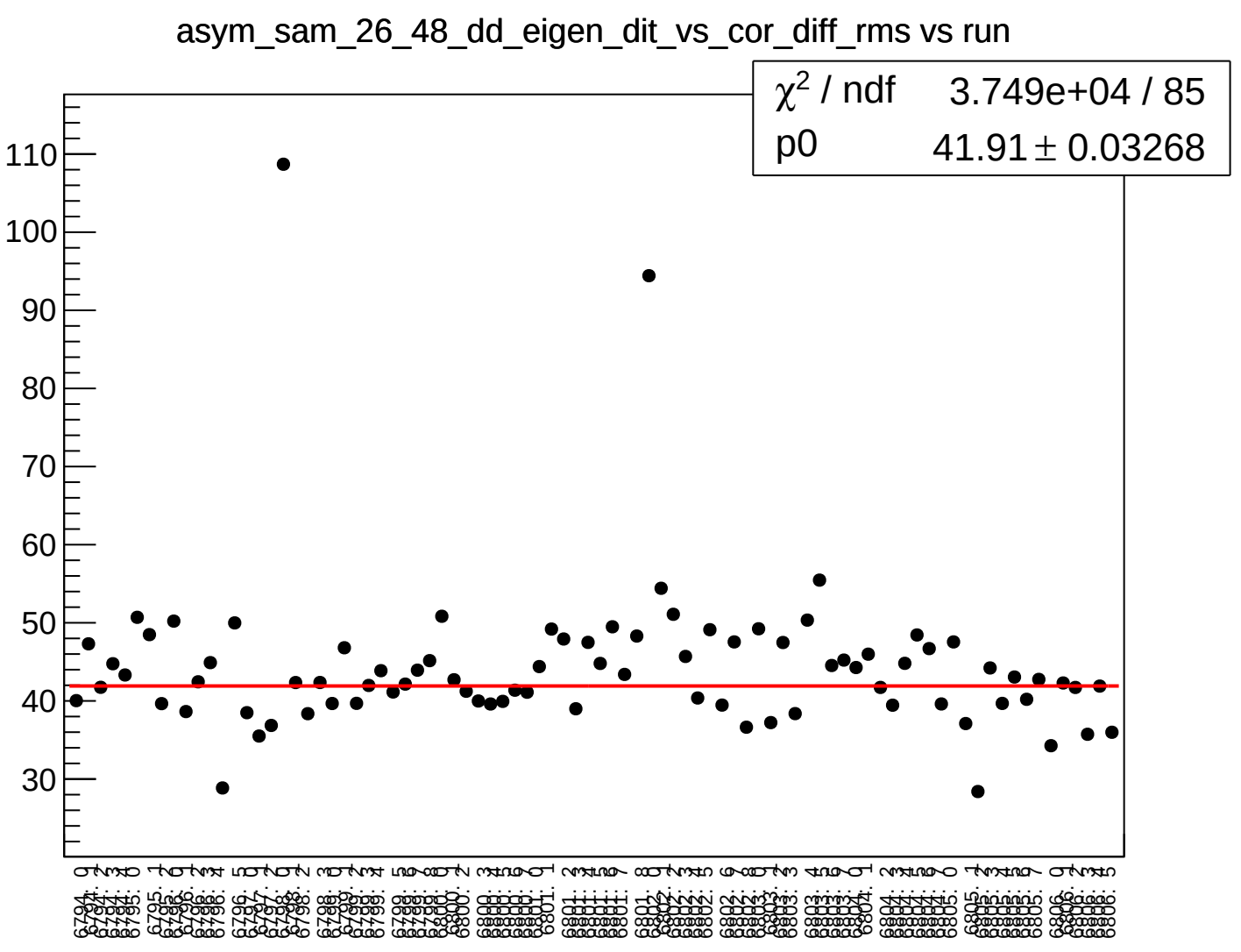

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.749e+04 / 85
p0 41.91 ± 0.03268
110
100
90
80
70
60
50
40
30

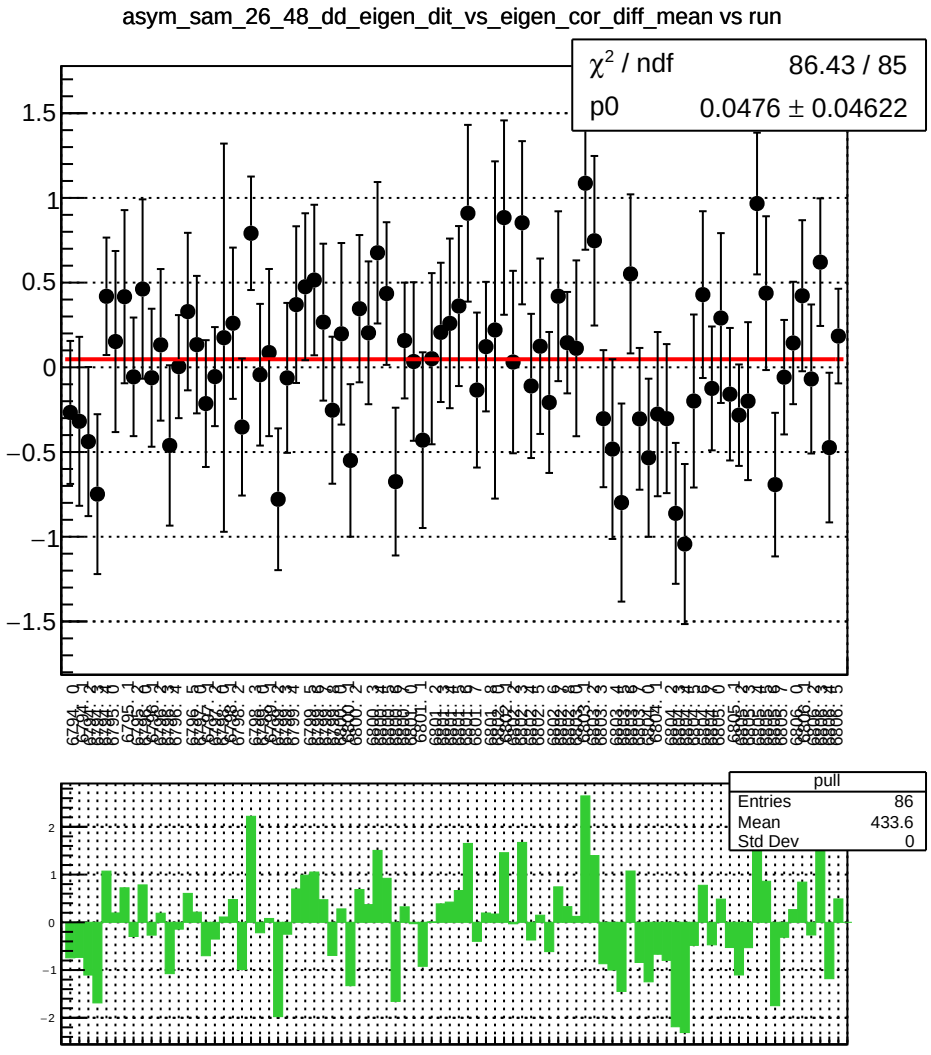

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 77.02 / 85
p0 2.345e−06 ± 1.557e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −79.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean 0.02453
Std Dev 0.9461
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

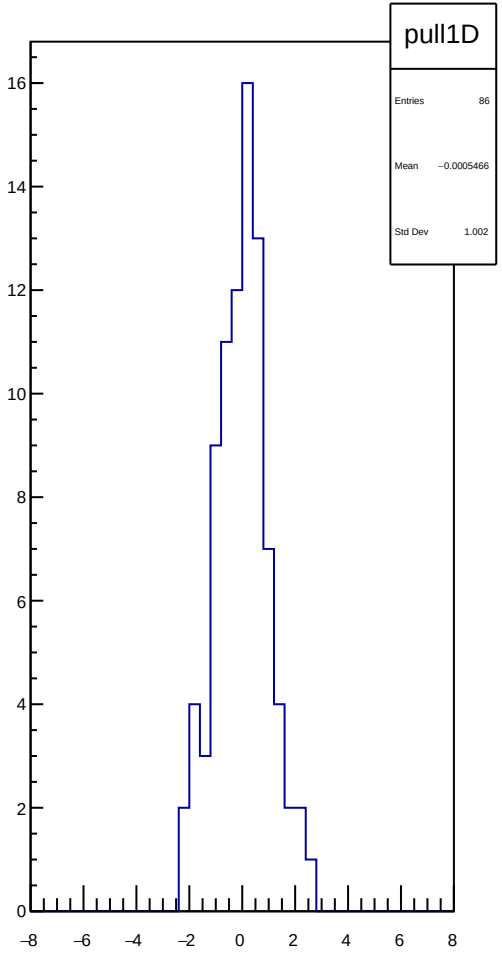

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.67e+04 / 85
p0 0.001421 ± 1.101e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011

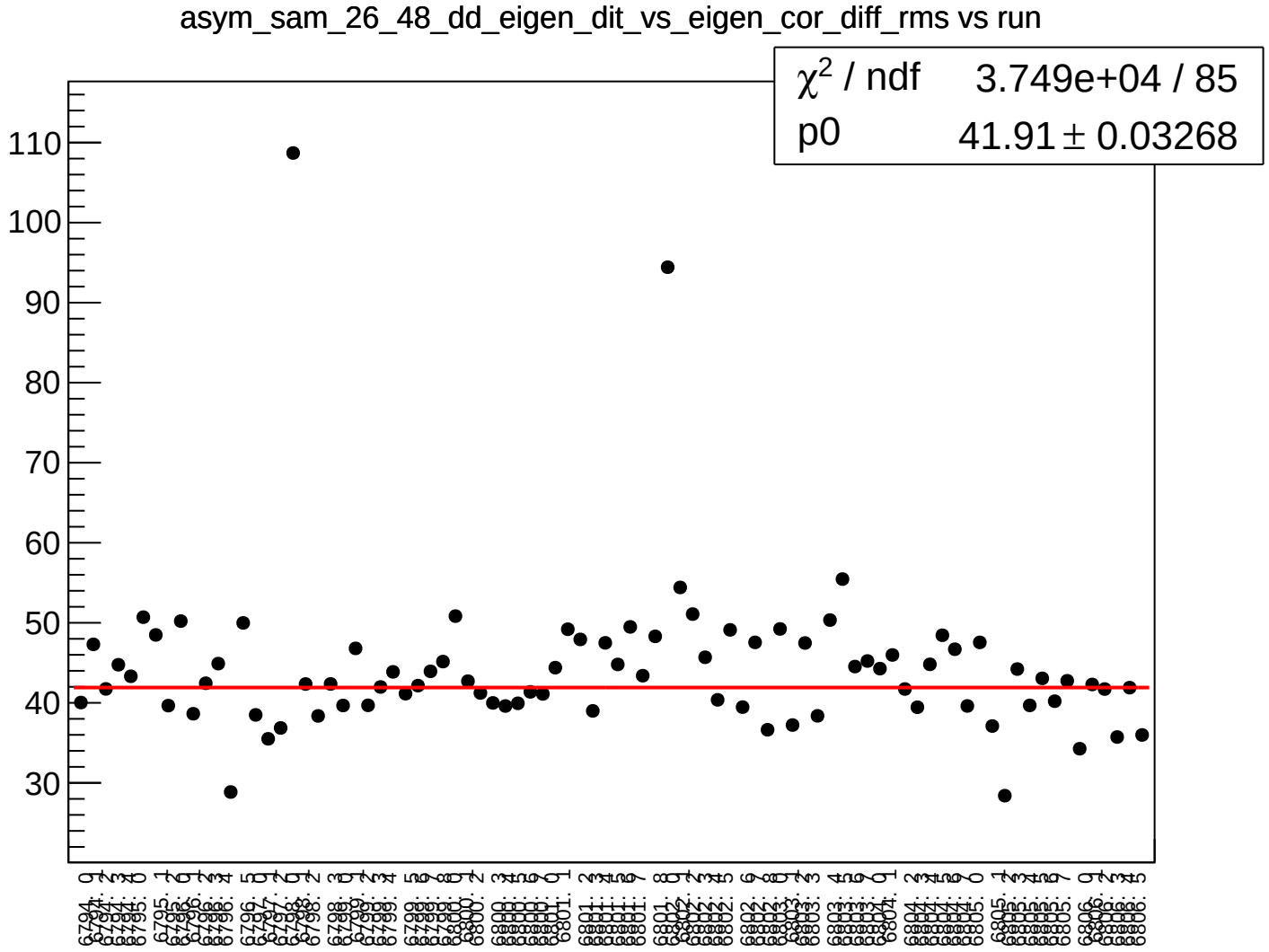

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.43 / 85
p0 0.0476 ± 0.04622
pull
Entries 86
Mean 433.6
Std Dev 0

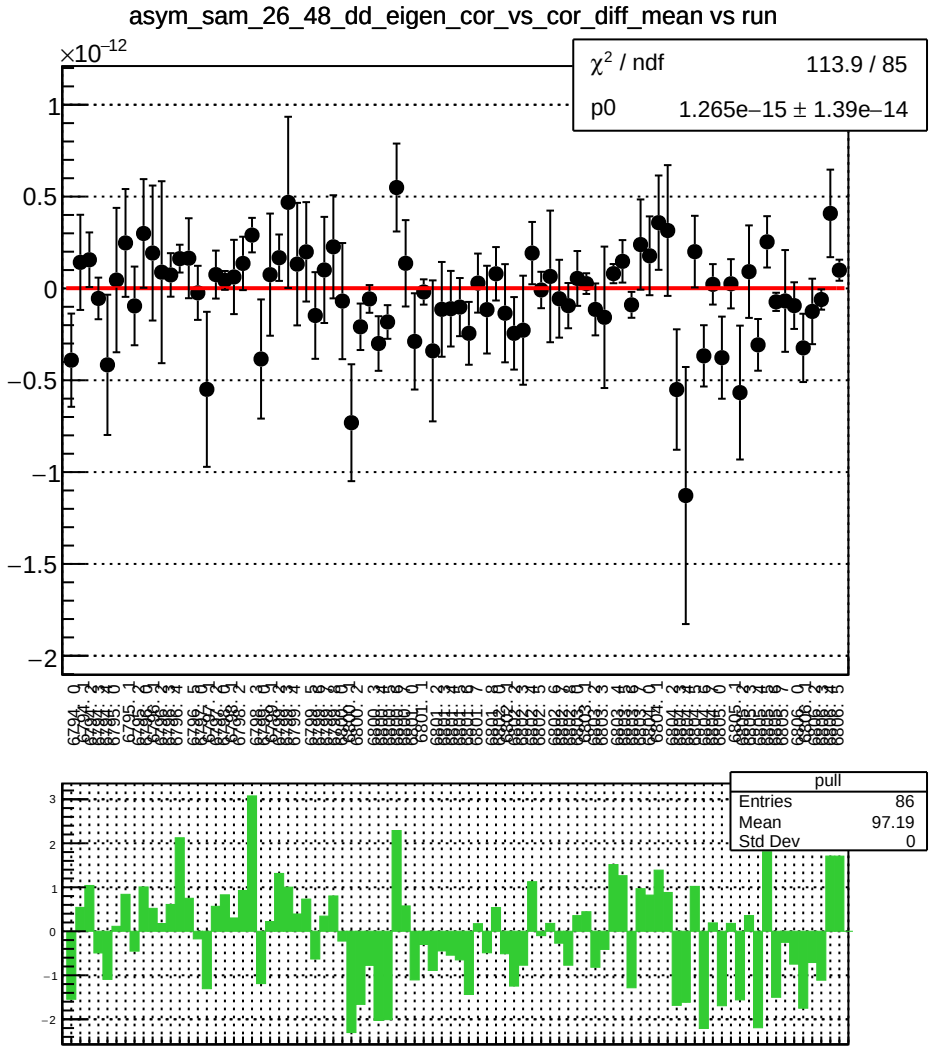

pull1D
Entries 86
Mean −0.0005466
Std Dev 1.002

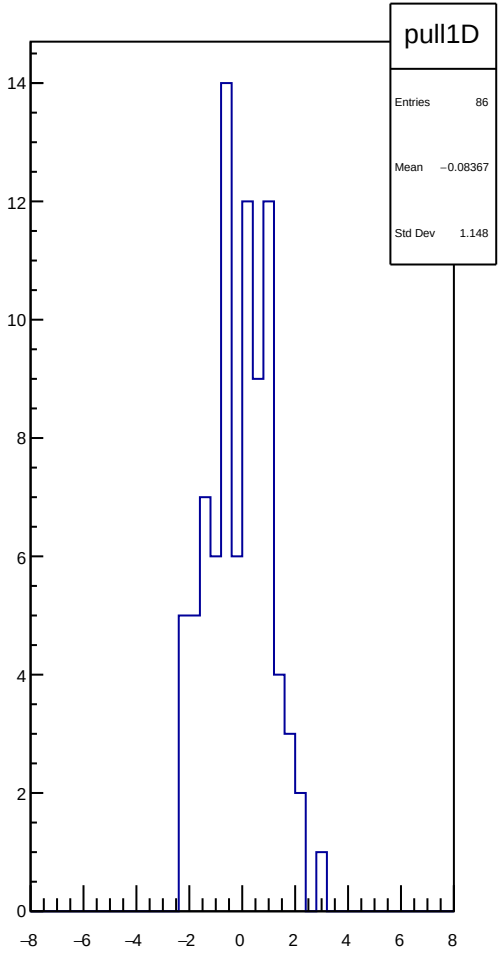

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.749e+04 / 85
p0 41.91 ± 0.03268
110
100
90
80
70
60
50
40
30

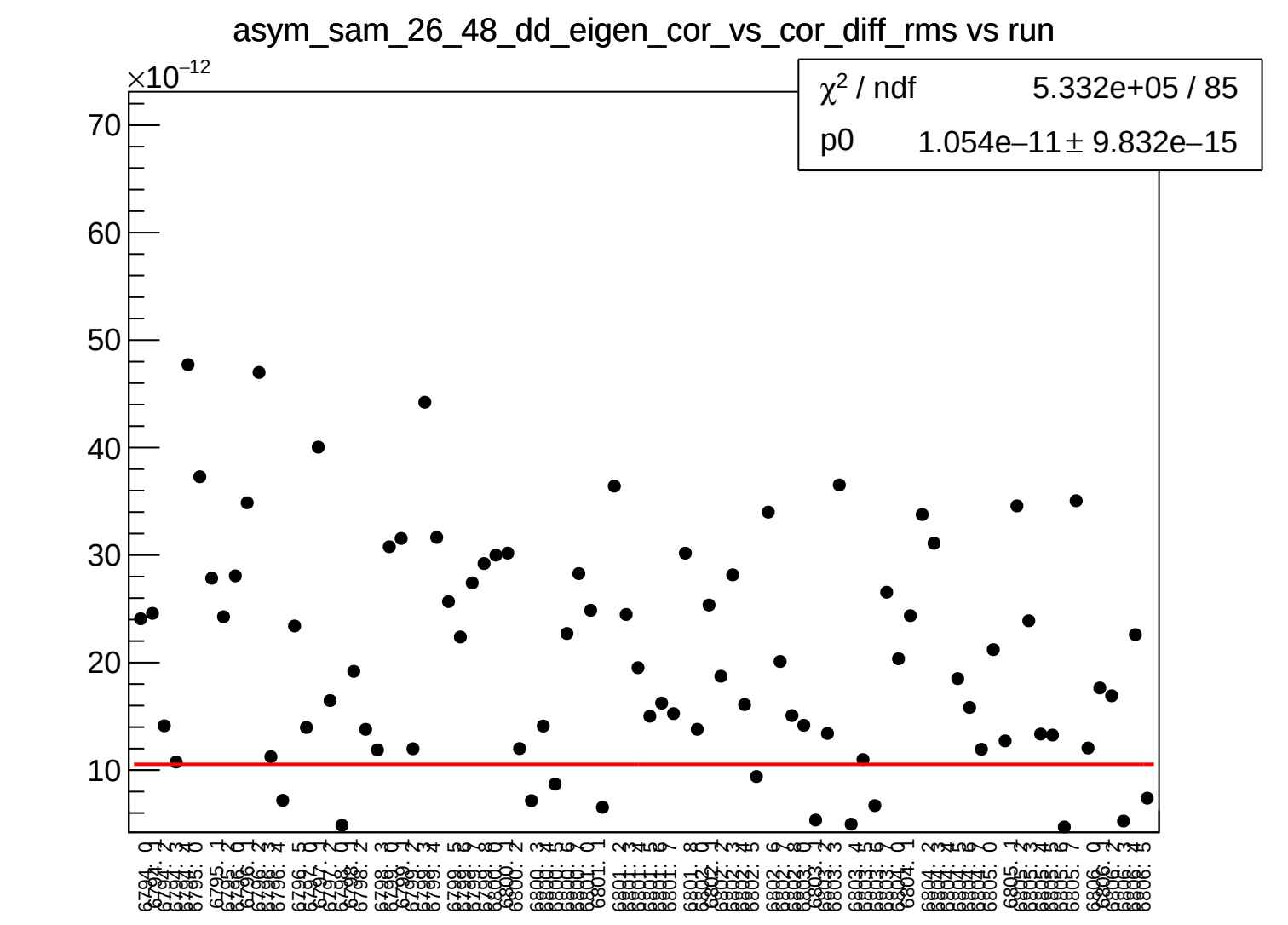

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.43 / 85
p0 0.0476 ± 0.04622
pull
Entries 86
Mean 433.6
Std Dev 0

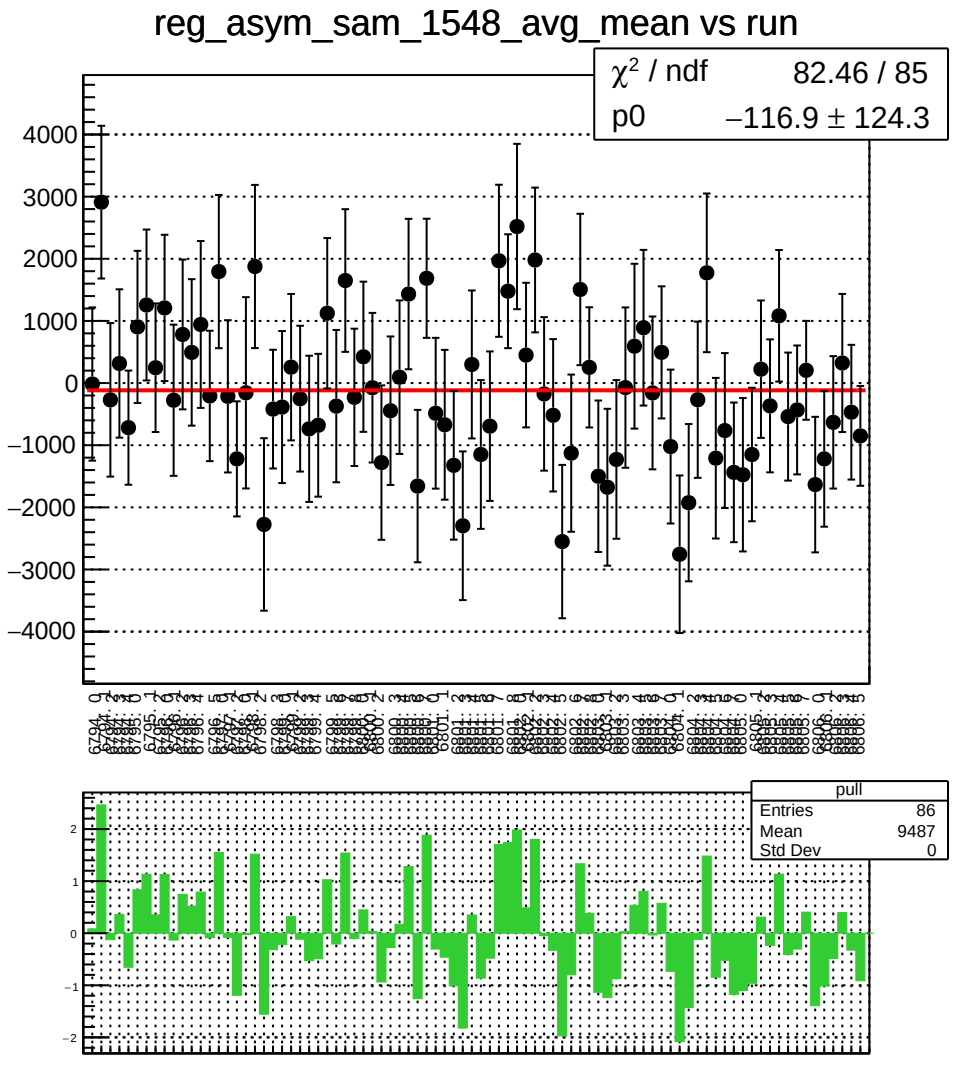

pull1D
Entries 86
Mean −0.0005466
Std Dev 1.002

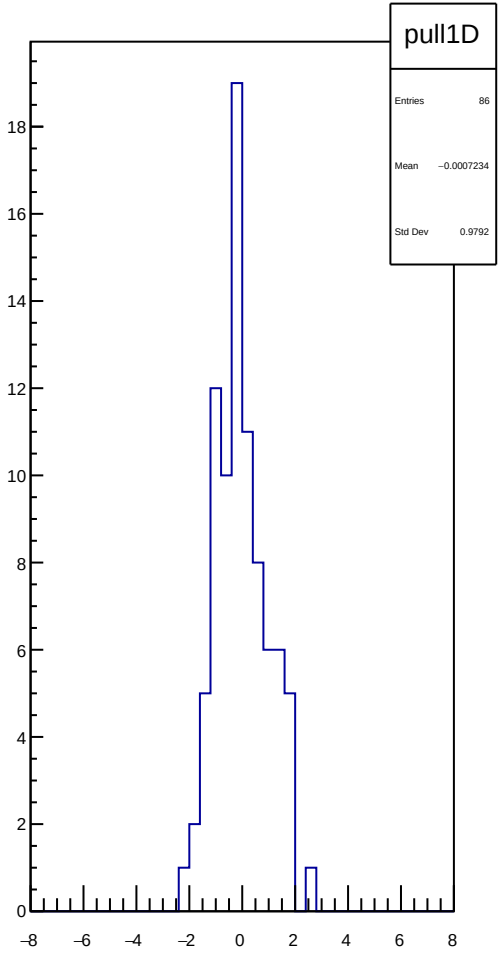

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.749e+04 / 85
p0 41.91 ± 0.03268
110
100
90
80
70
60
50
40
30

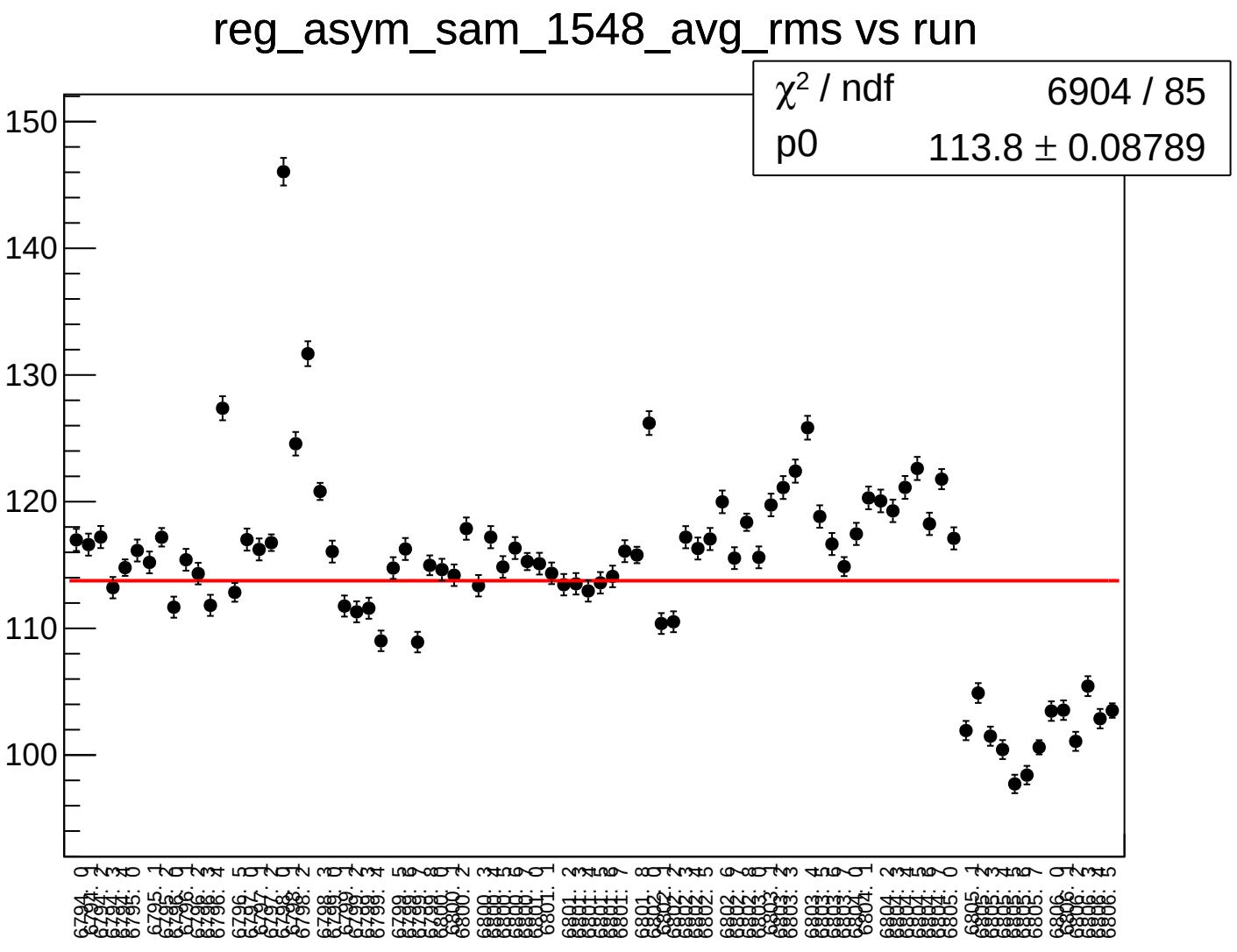

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.9 / 85
p0 1.265e−15 ± 1.39e−14
pull
Entries 86
Mean 97.19
Std Dev 0

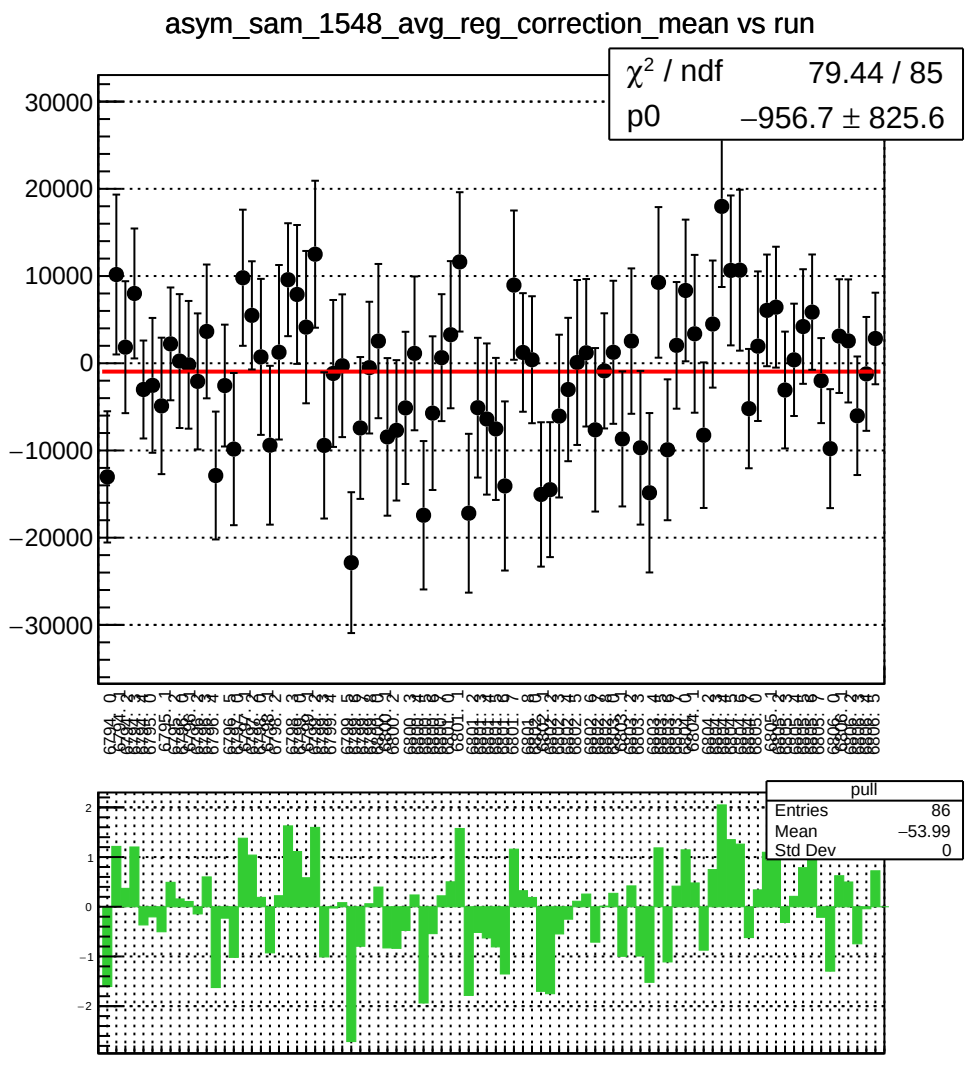

pull1D
Entries 86
Mean −0.08367
Std Dev 1.148

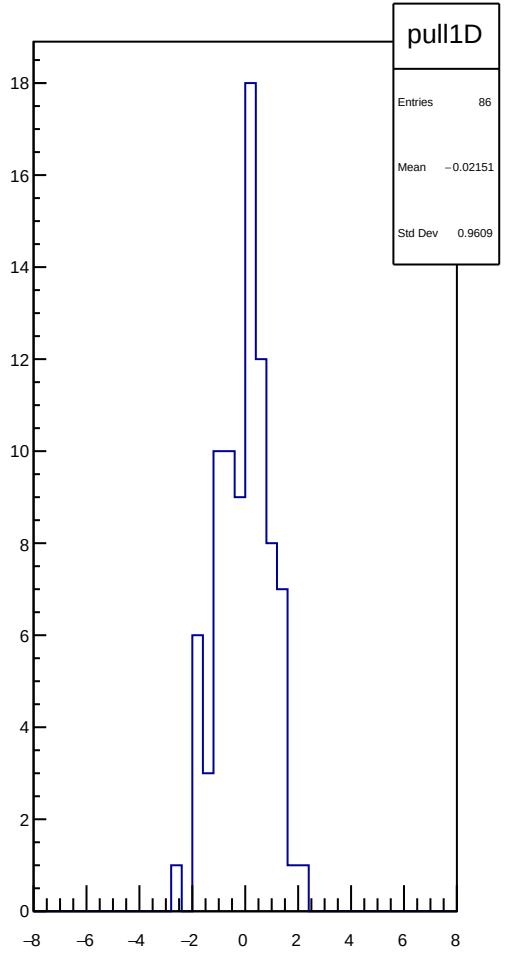

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.332e+05 / 85
p0 1.054e−11 ± 9.832e−15

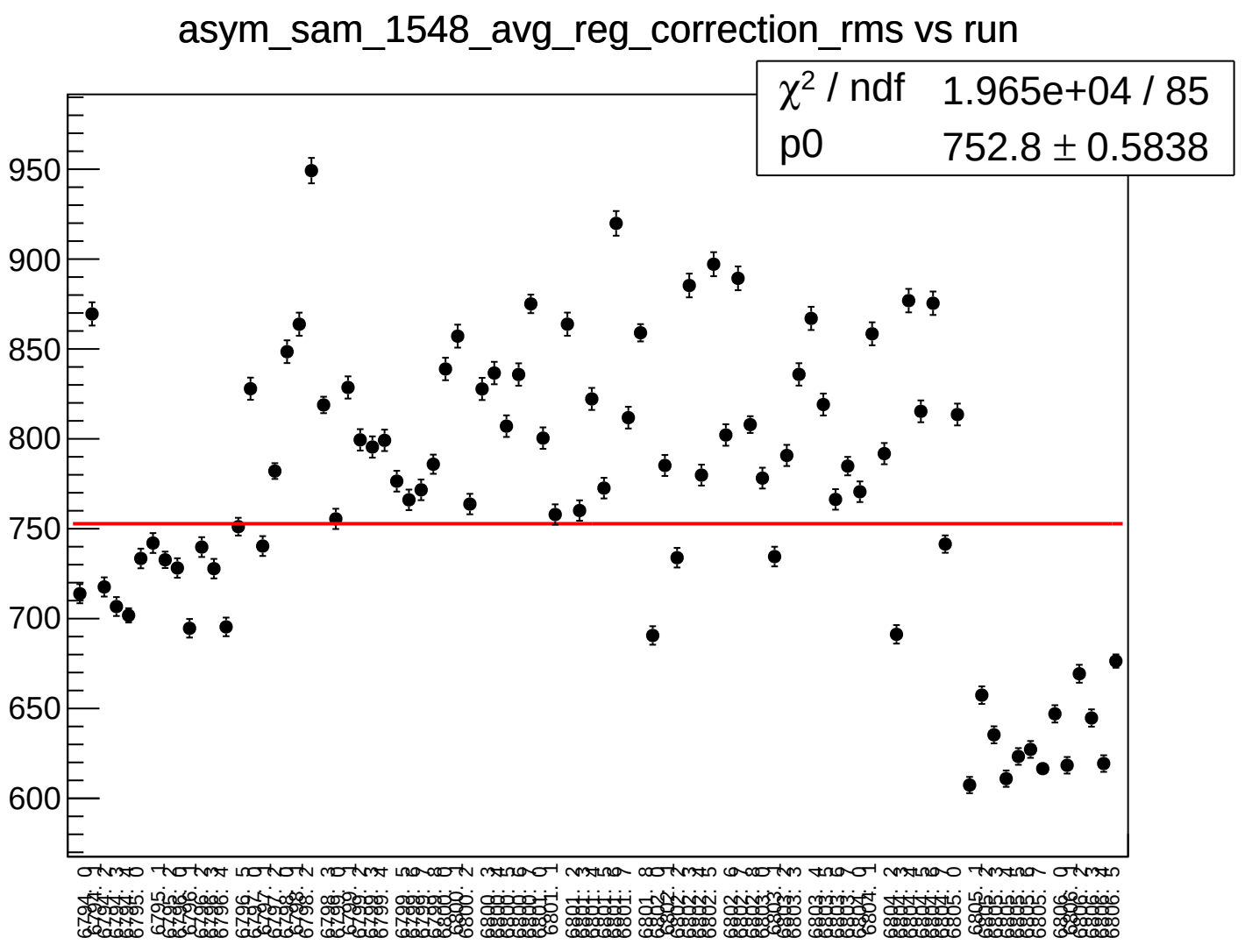

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 82.46 / 85
p0 −116.9 ± 124.3
pull
Entries 86
Mean 9487
Std Dev 0

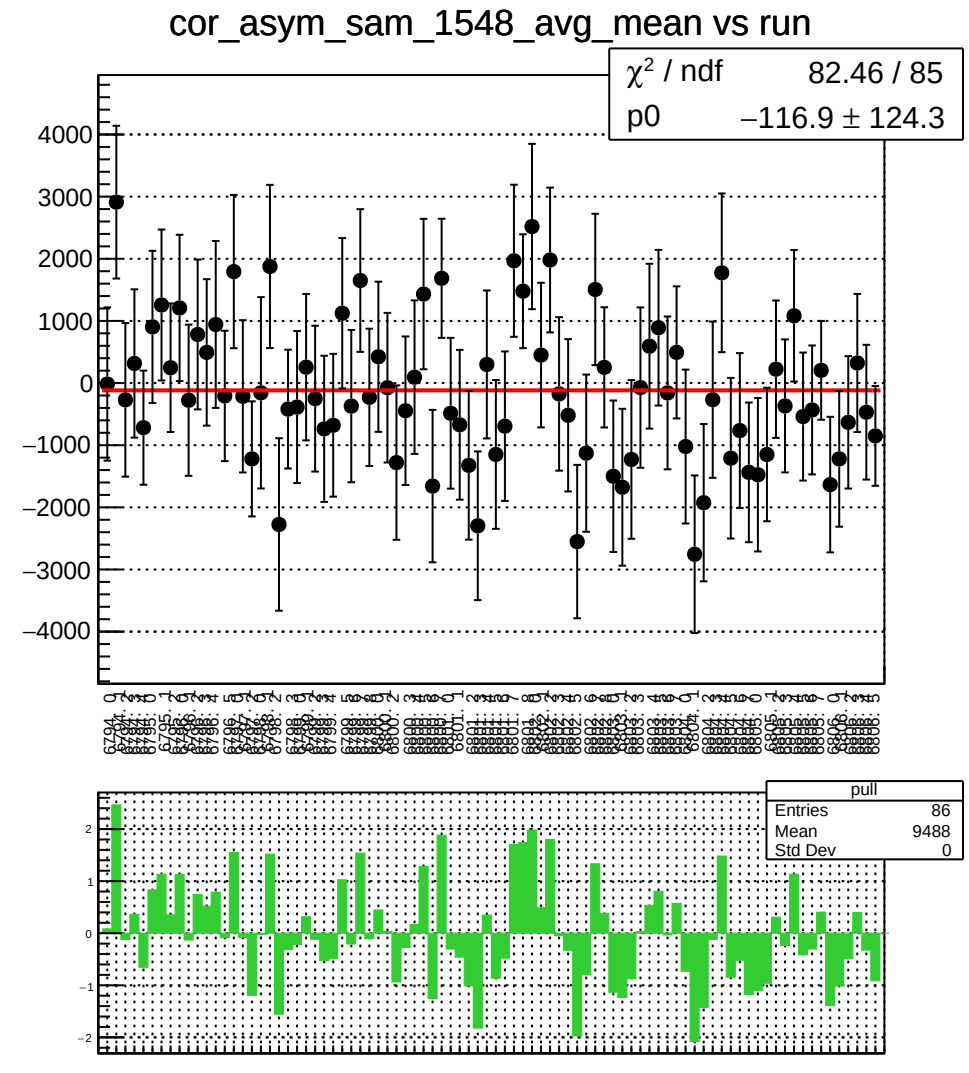

pull1D
Entries 86
Mean −0.0007234
Std Dev 0.9792

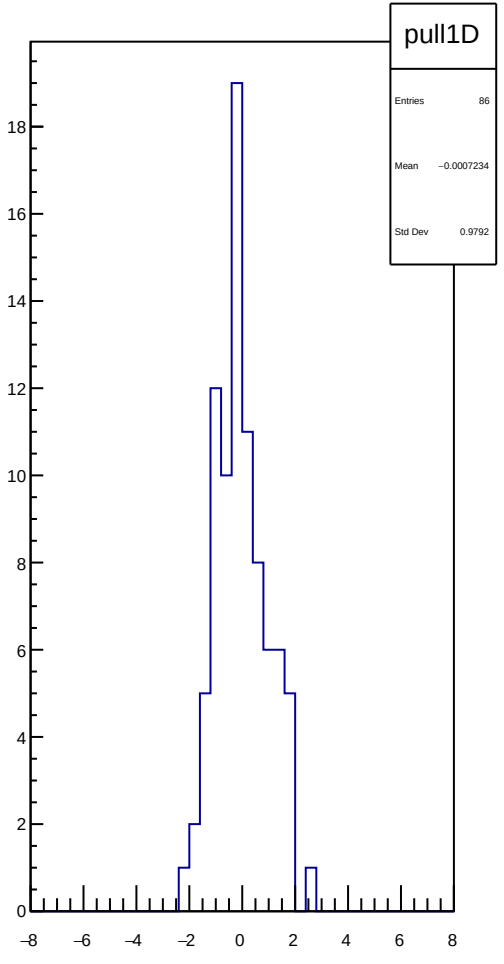

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 6904 / 85
p0 113.8 ± 0.08789
150
140
130
120
110
100

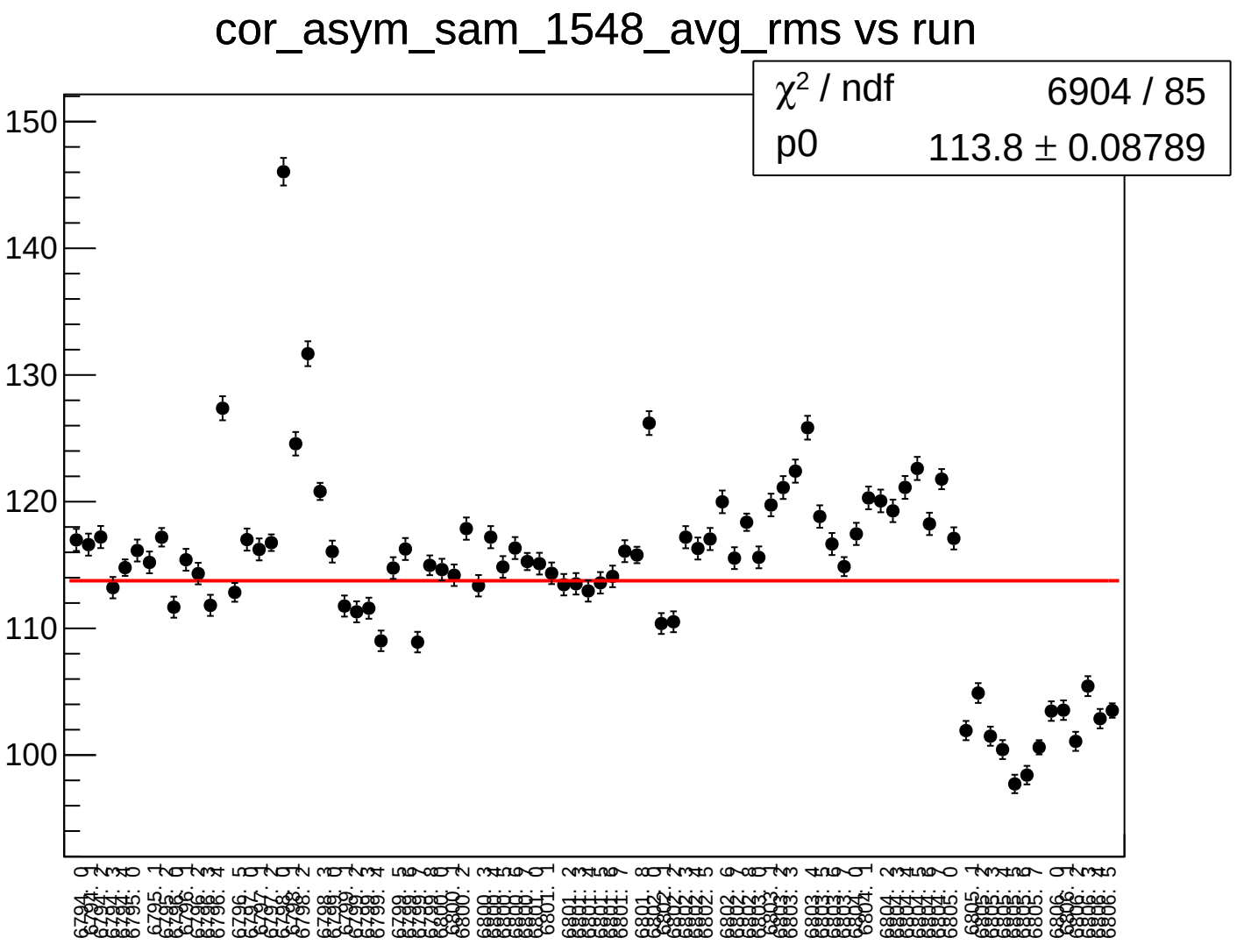

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 79.44 / 85
p0 −956.7 ± 825.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −53.99
Std Dev 0
2
1
0
−1
−2

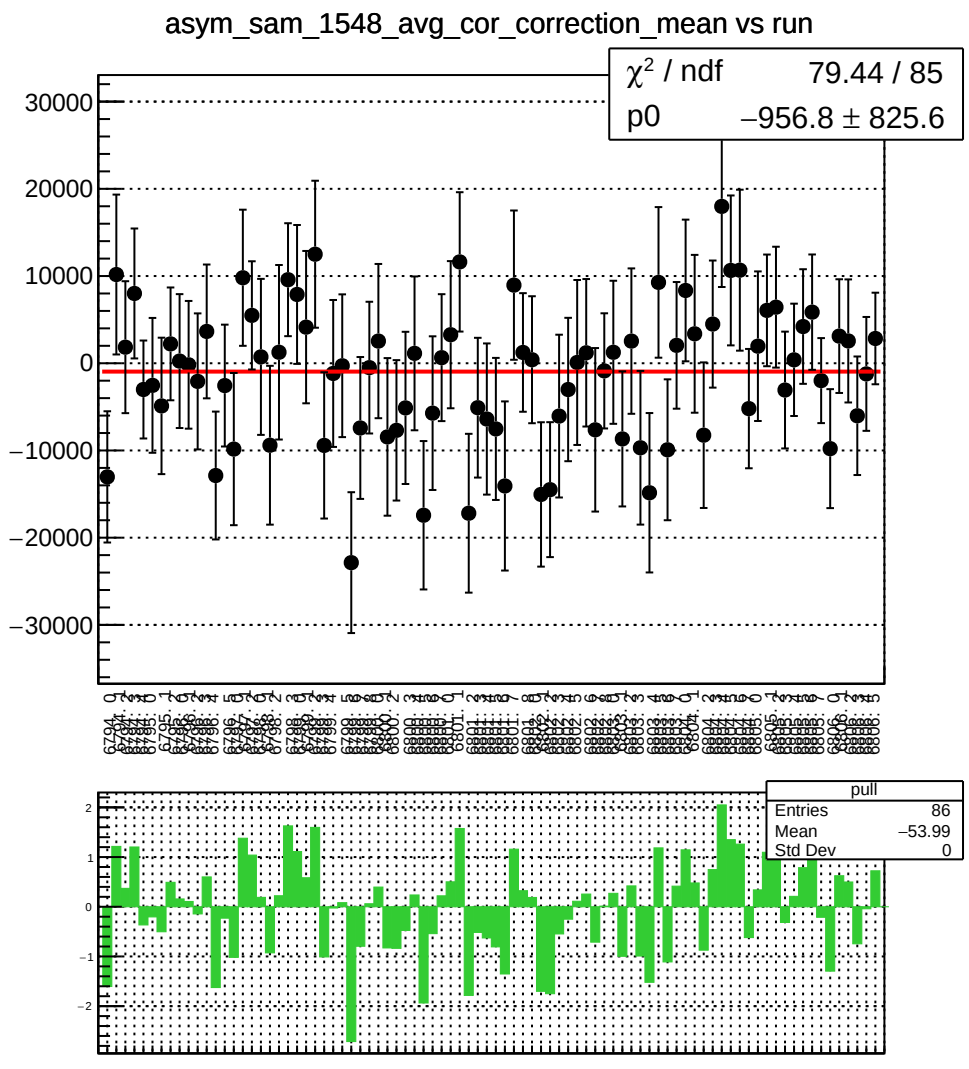

pull1D
Entries 86
Mean −0.02151
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

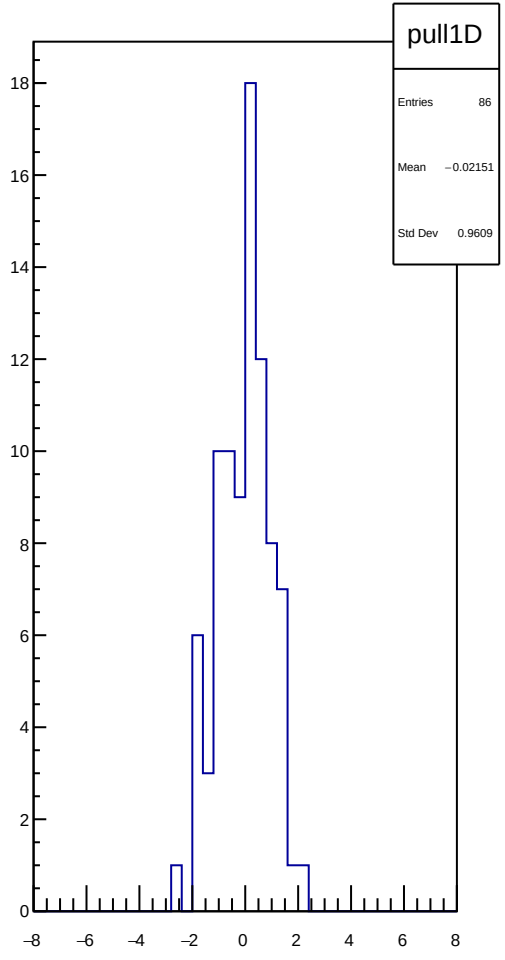

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.965e+04 / 85
p0 752.8 ± 0.5838
950
900
850
800
750
700
650
600

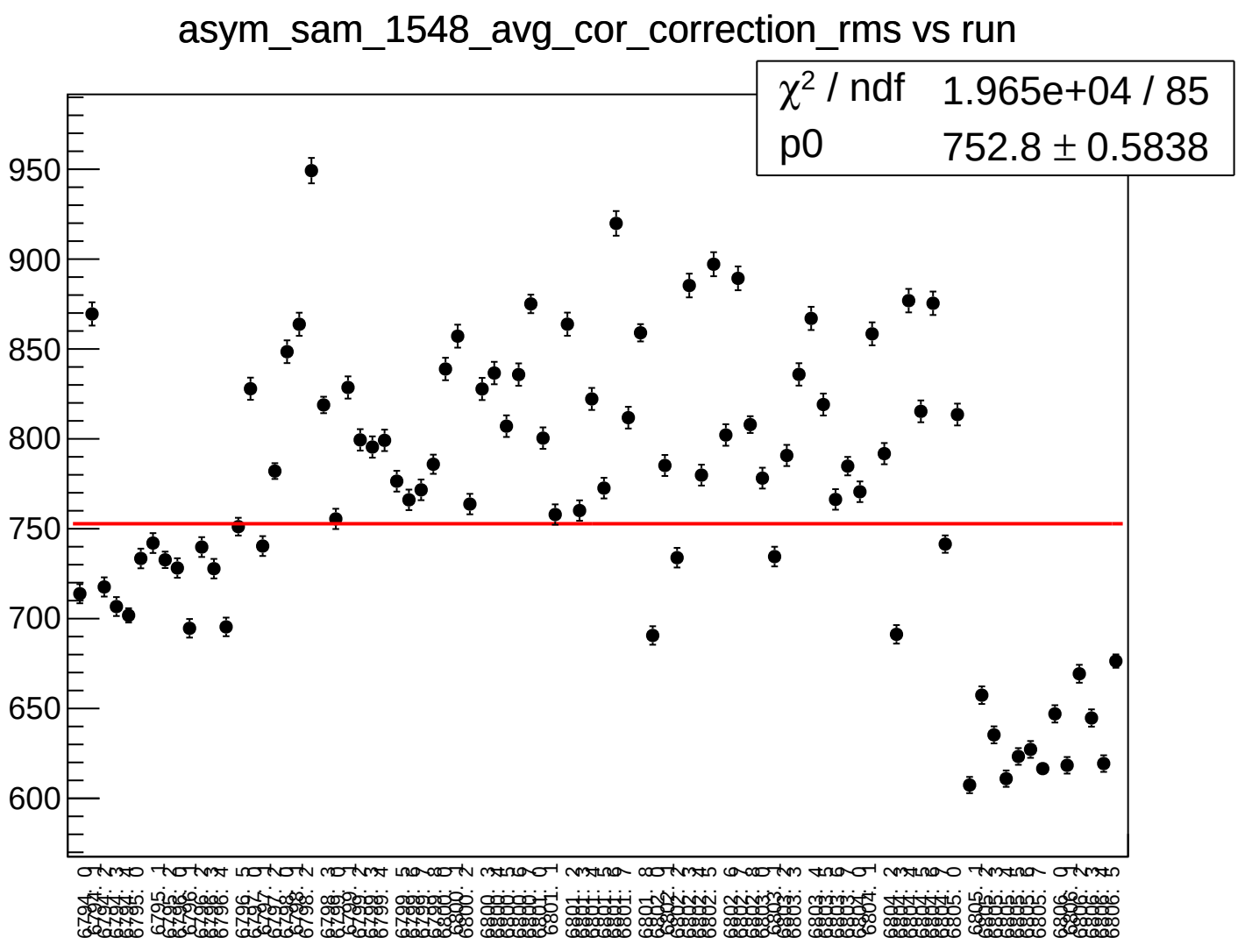

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.46 / 85
p0 −116.9 ± 124.3
pull
Entries 86
Mean 9488
Std Dev 0

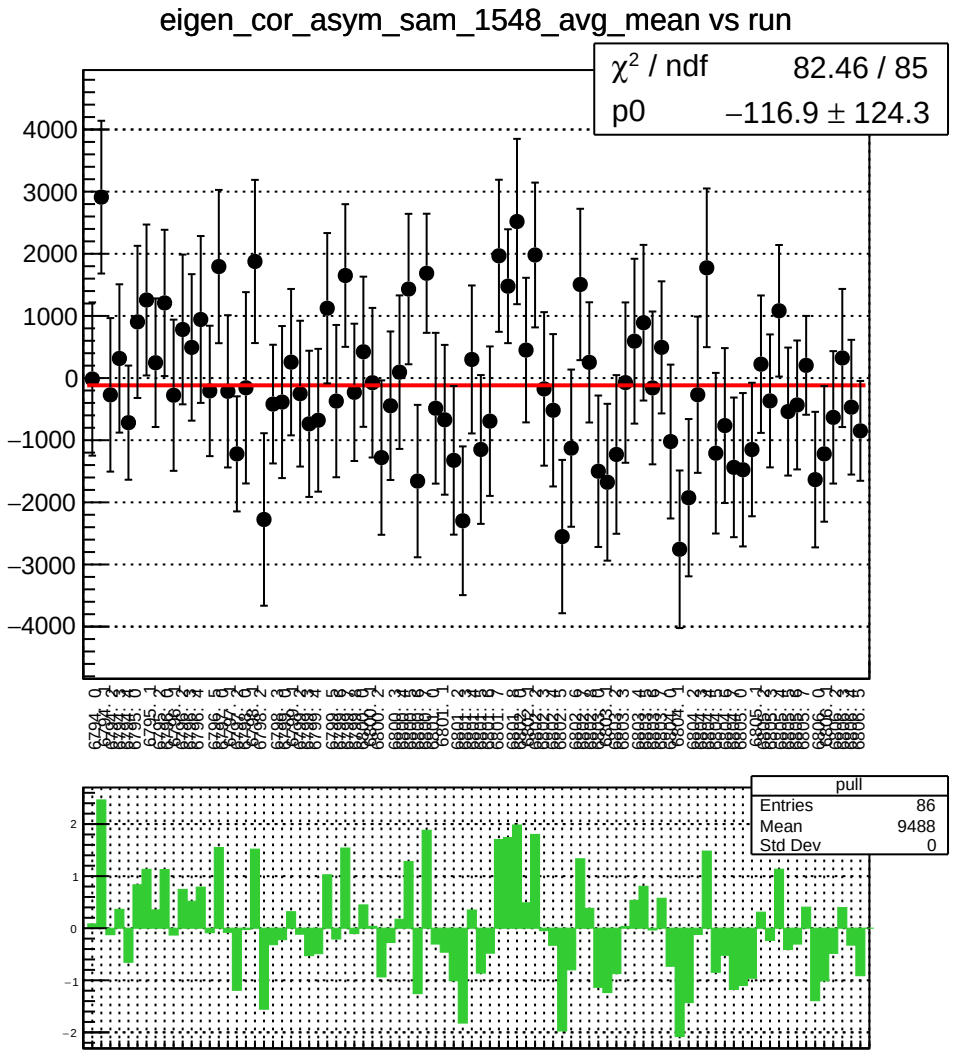

pull1D
Entries 86
Mean −0.0007234
Std Dev 0.9792

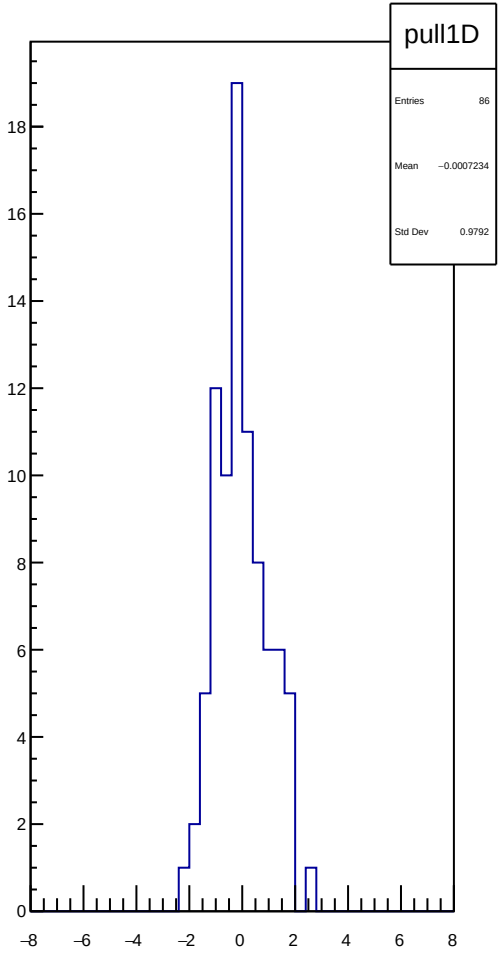

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6904 / 85
p0 113.8 ± 0.08789
150
140
130
120
110
100

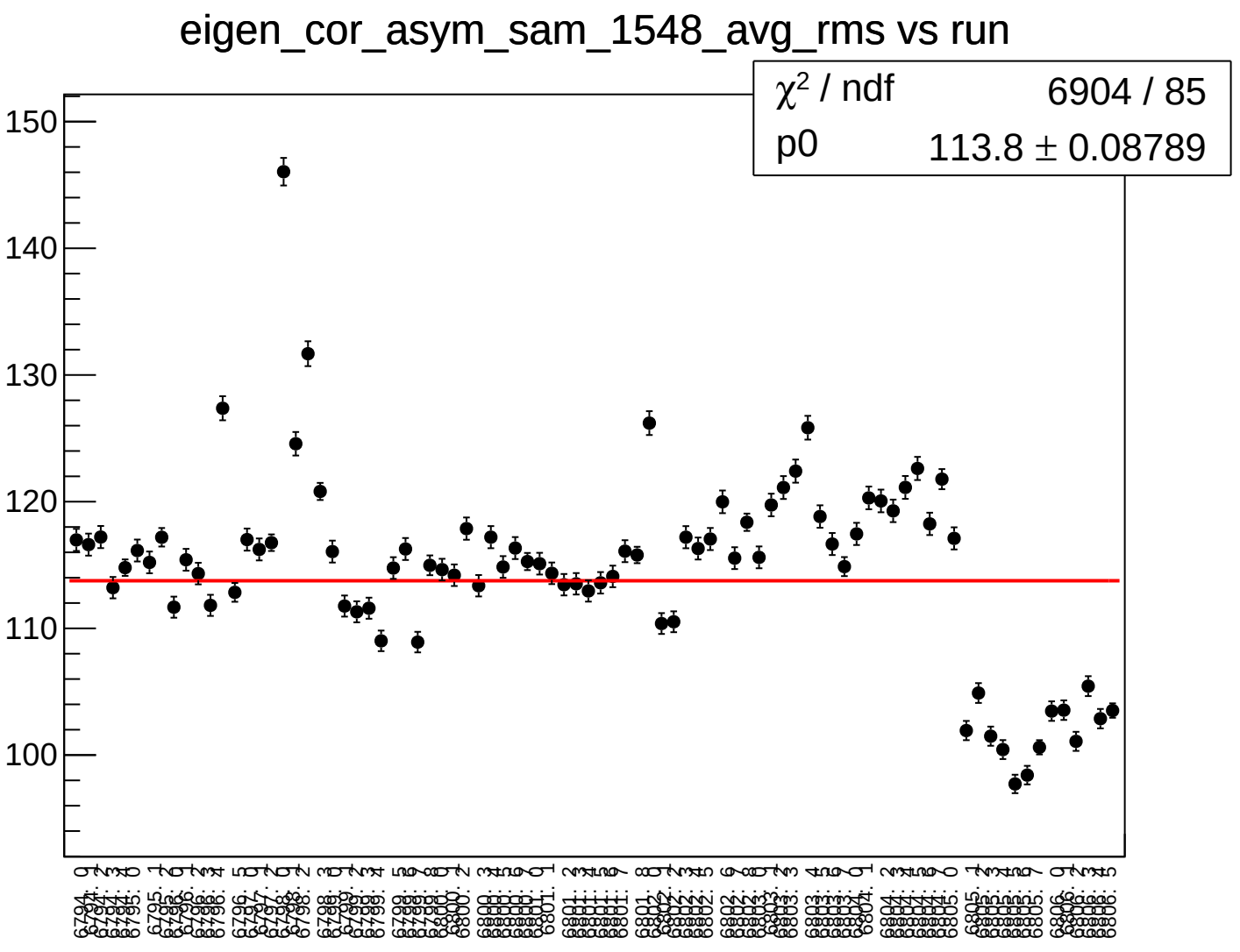

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 79.44 / 85
p0 −956.8 ± 825.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −53.99
Std Dev 0
2
1
0
−1
−2

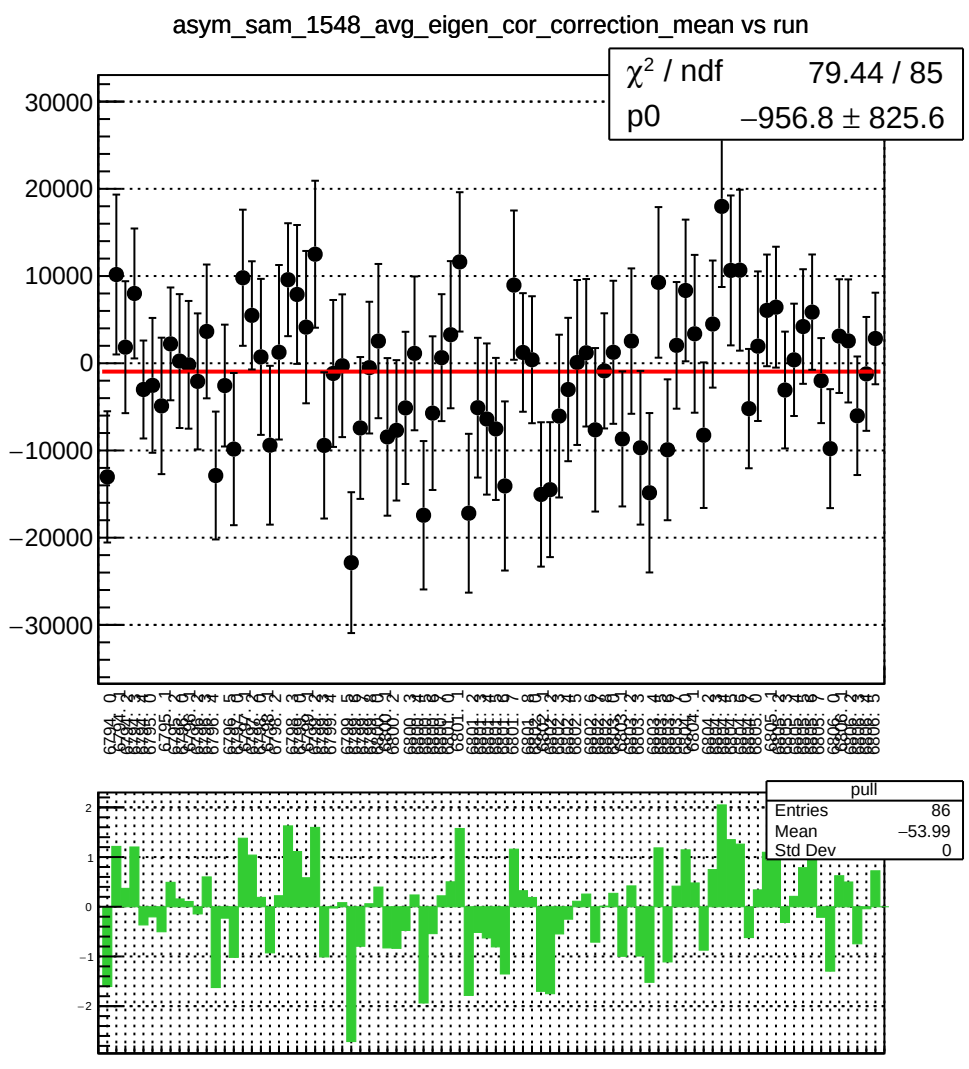

pull1D
Entries 86
Mean −0.02151
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

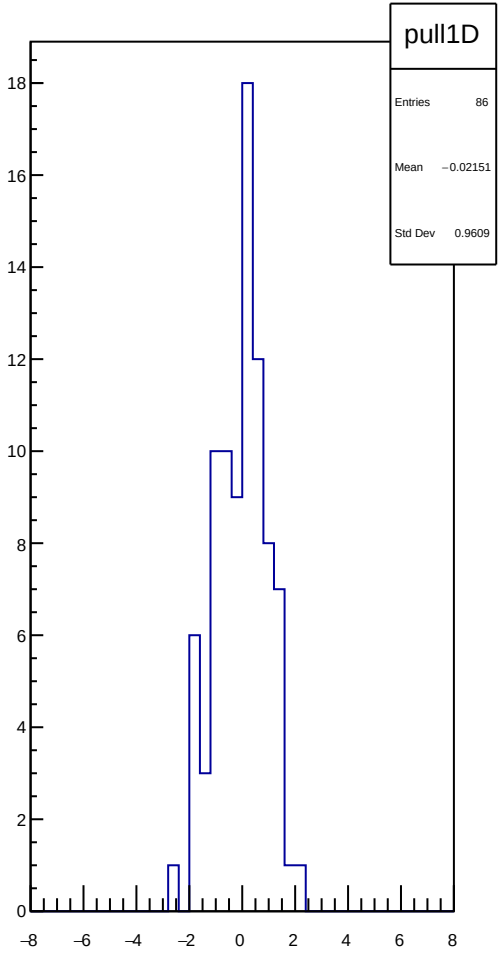

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.965e+04 / 85
p0 752.8 ± 0.5838
950
900
850
800
750
700
650
600

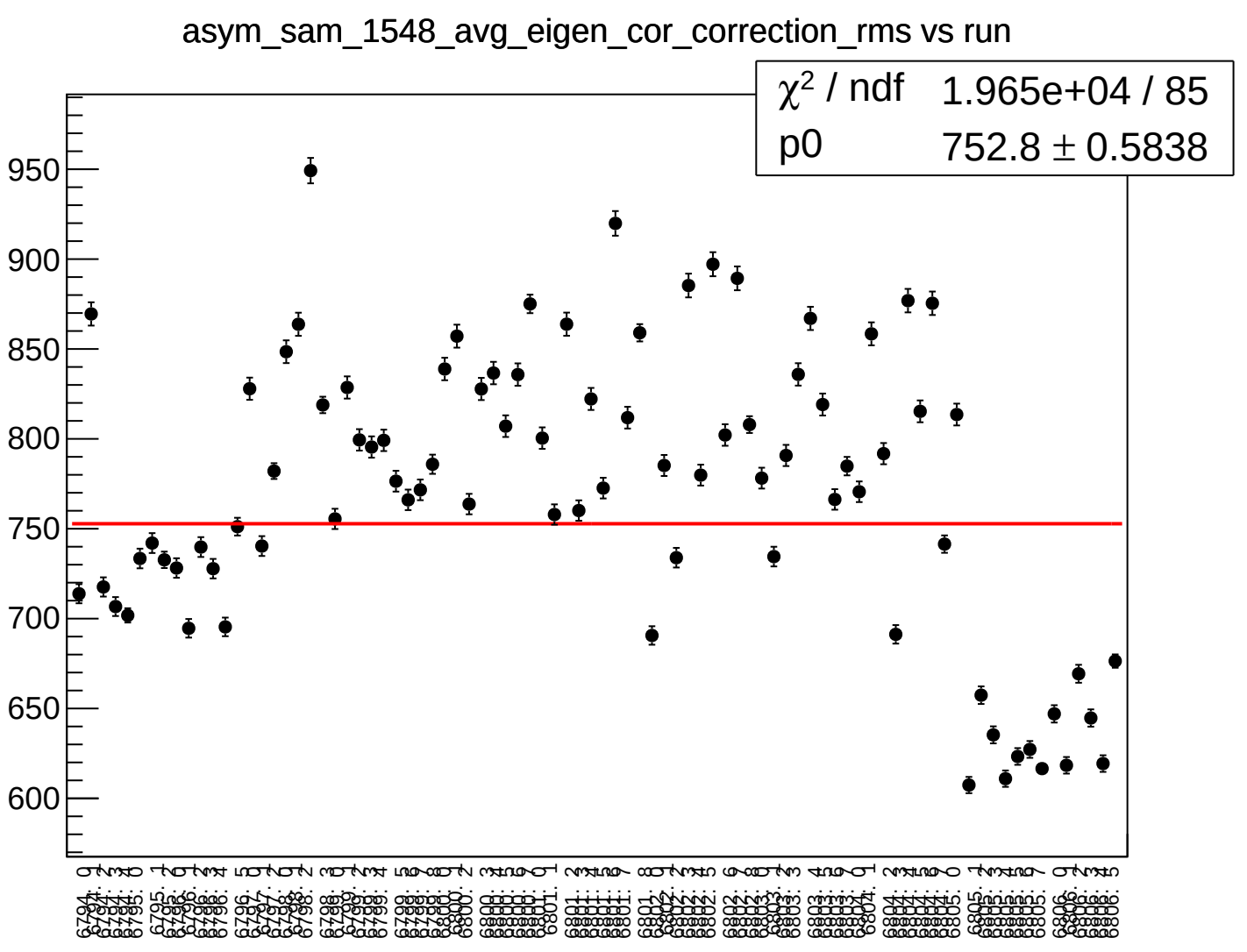

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 82.46 / 85
p0 −116.9 ± 124.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean 9488
Std Dev 0
2
1
0
−1
−2

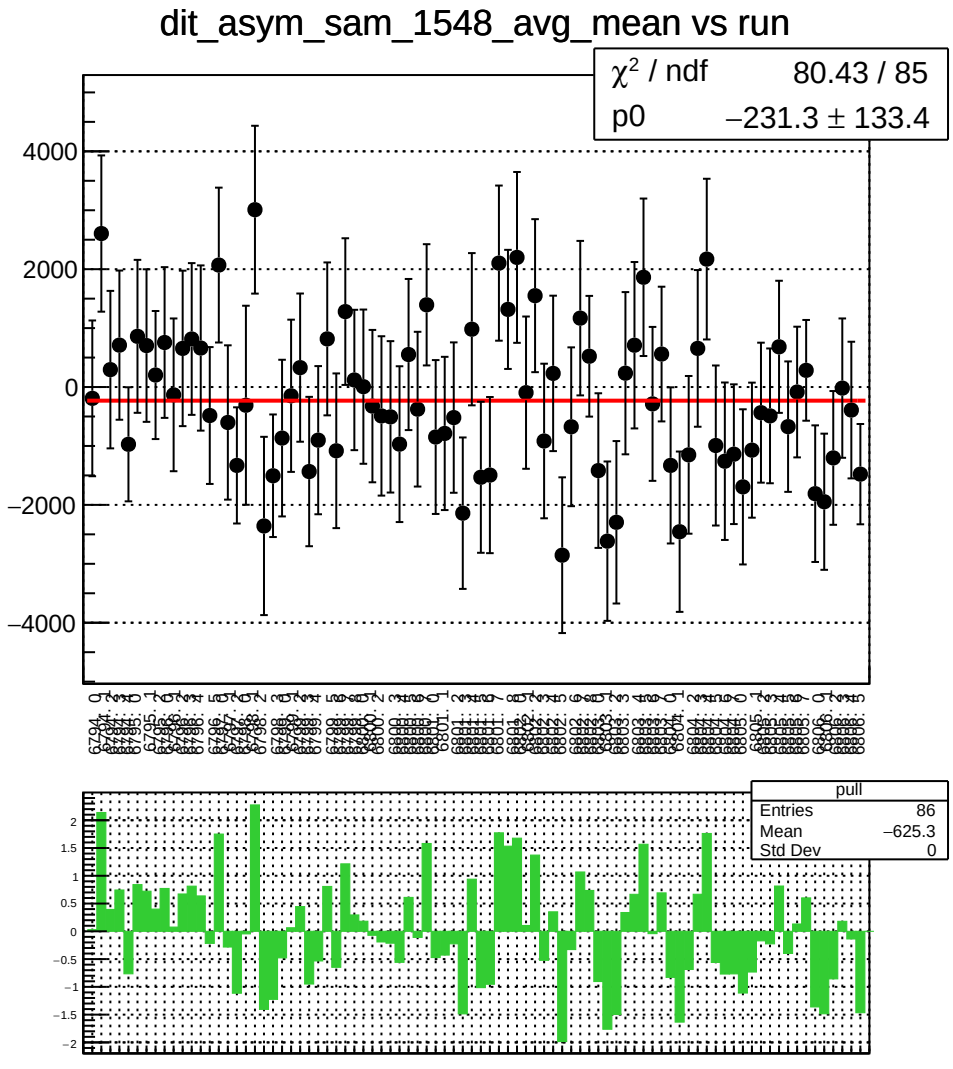

pull1D
Entries 86
Mean −0.0007234
Std Dev 0.9792
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

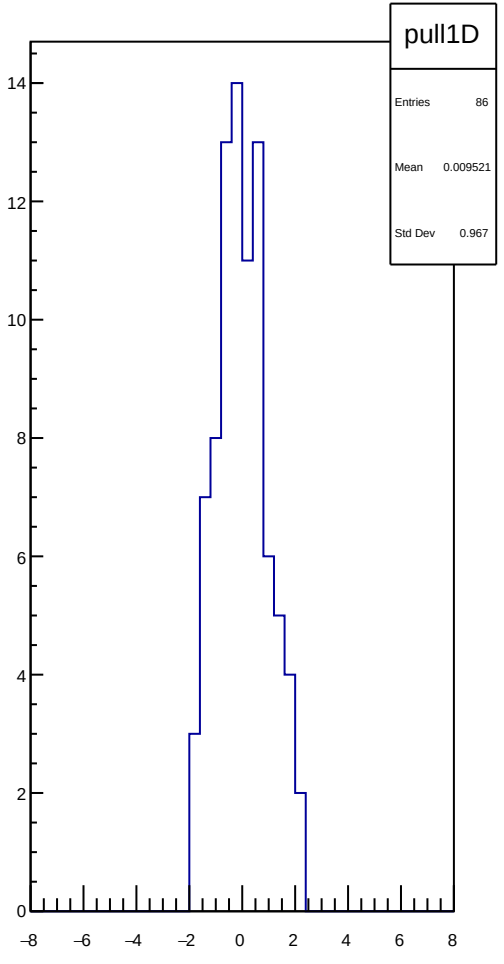

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 6904 / 85
p0 113.8 ± 0.08789
150
140
130
120
110
100

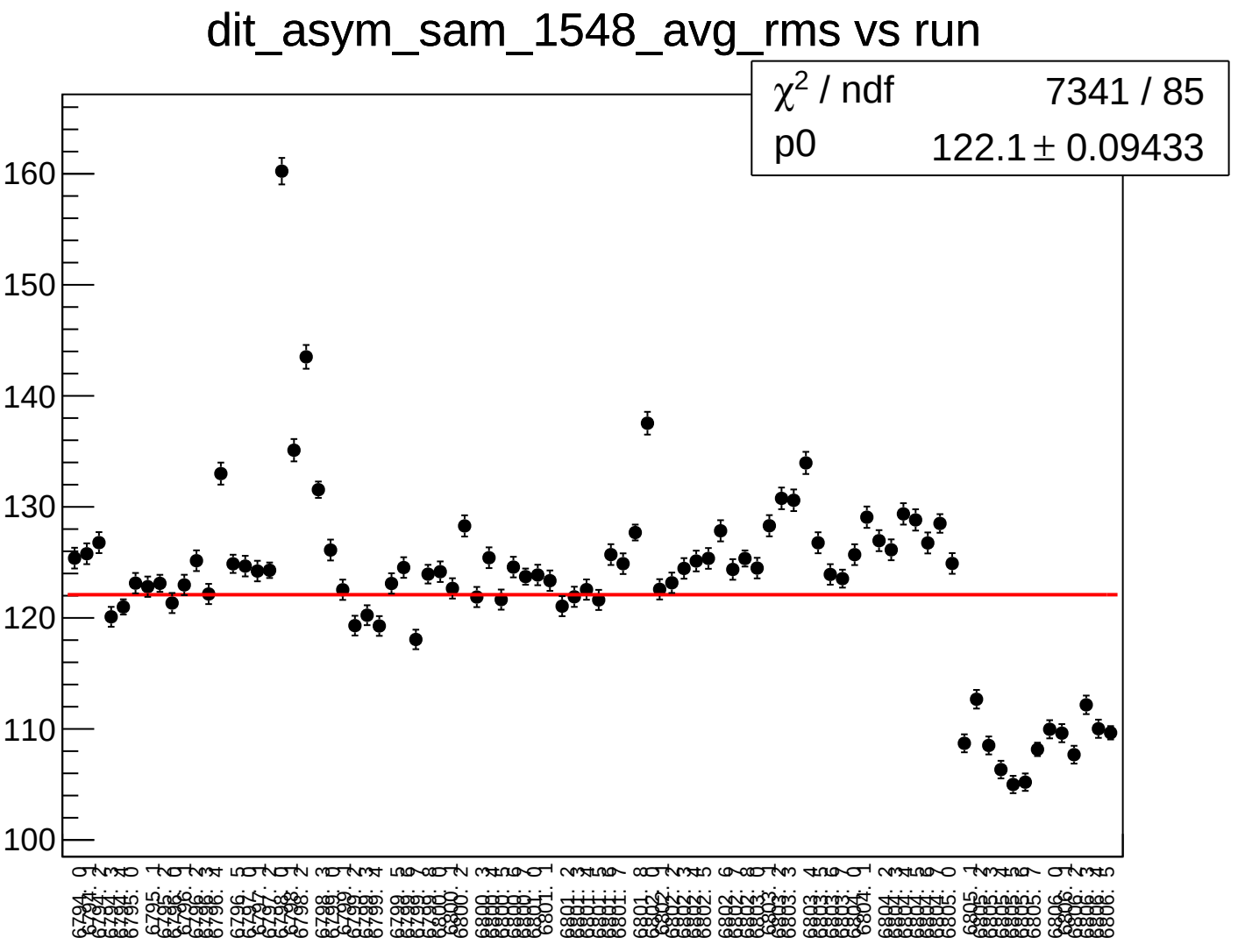

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 79.44 / 85
p0 −956.8 ± 825.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −53.99
Std Dev 0
2
1
0
−1
−2

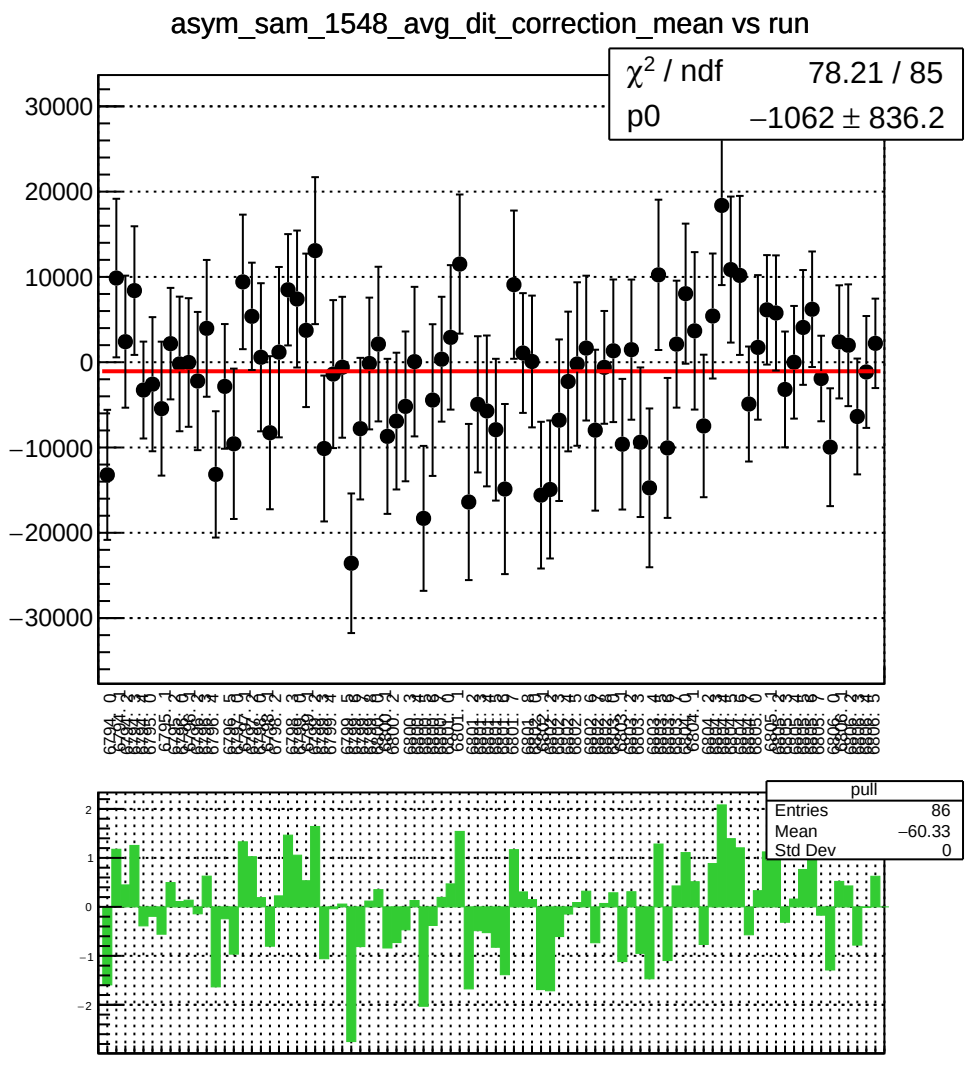

pull1D
Entries 86
Mean −0.02151
Std Dev 0.9609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

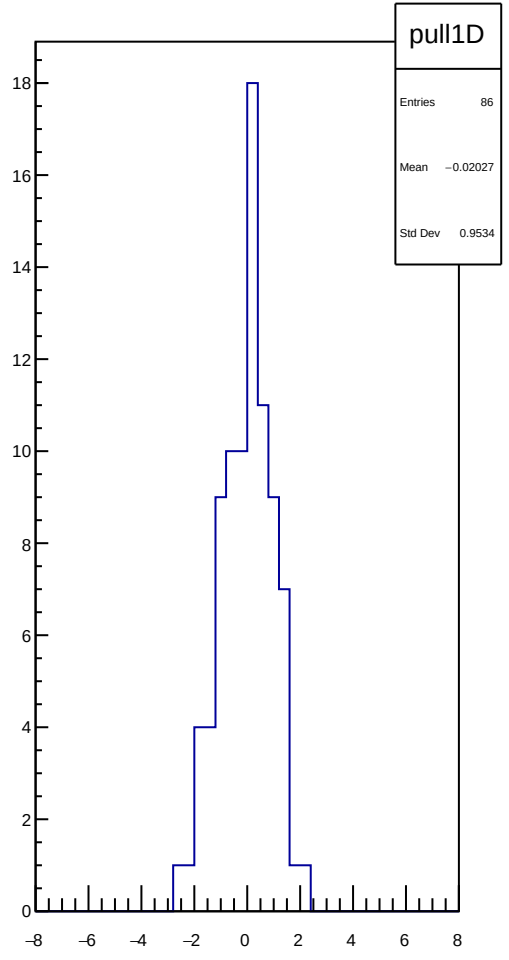

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.965e+04 / 85
p0 752.8 ± 0.5838
950
900
850
800
750
700
650
600

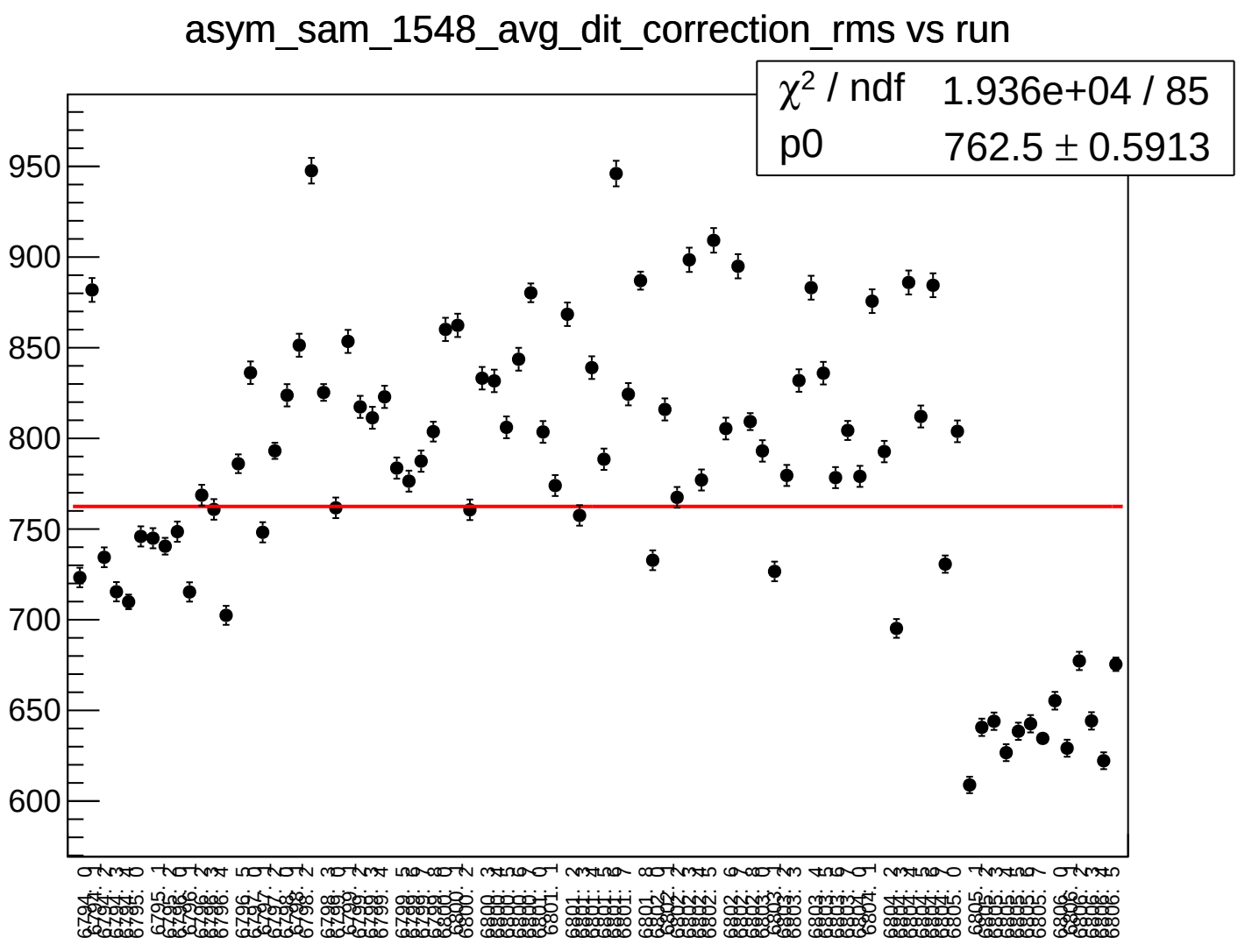

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 80.43 / 85
p0 −231.3 ± 133.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −625.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

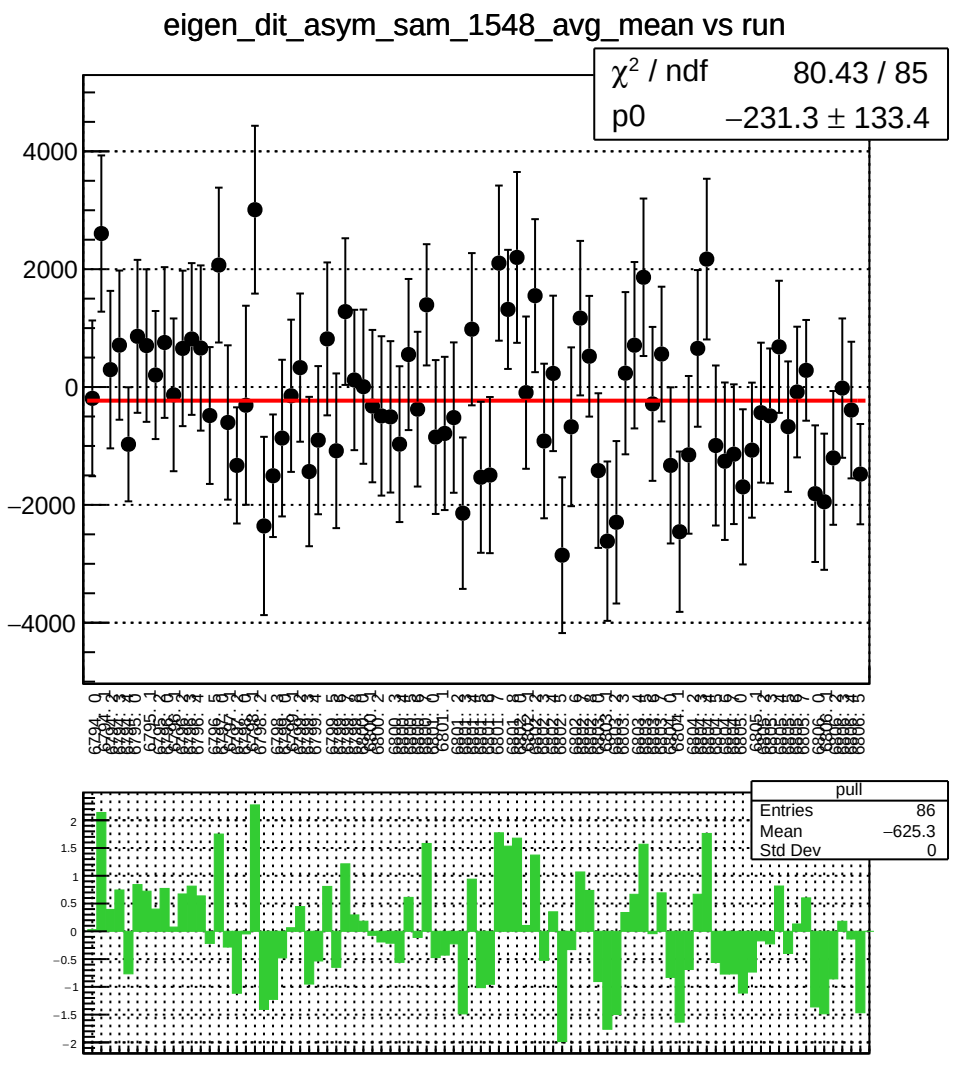

pull1D
Entries 86
Mean 0.009521
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

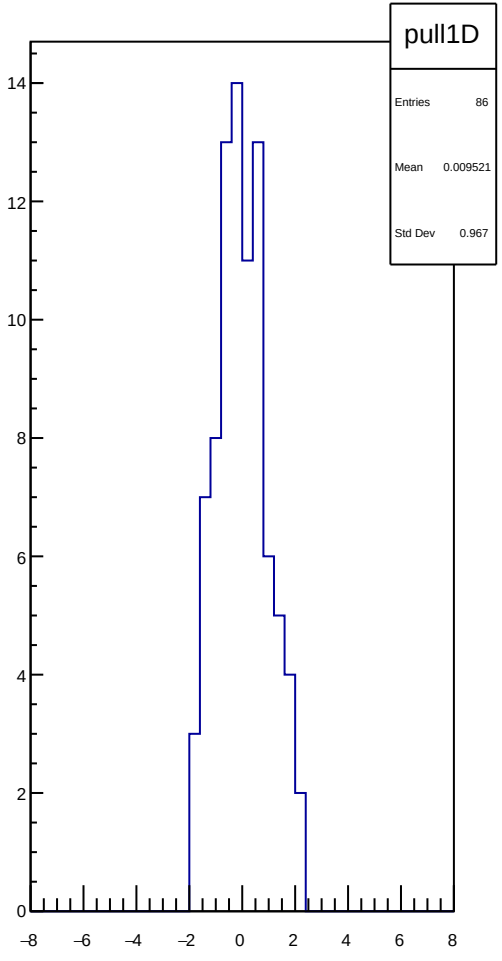

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 7341 / 85
p0 122.1 ± 0.09433
160
150
140
130
120
110
100

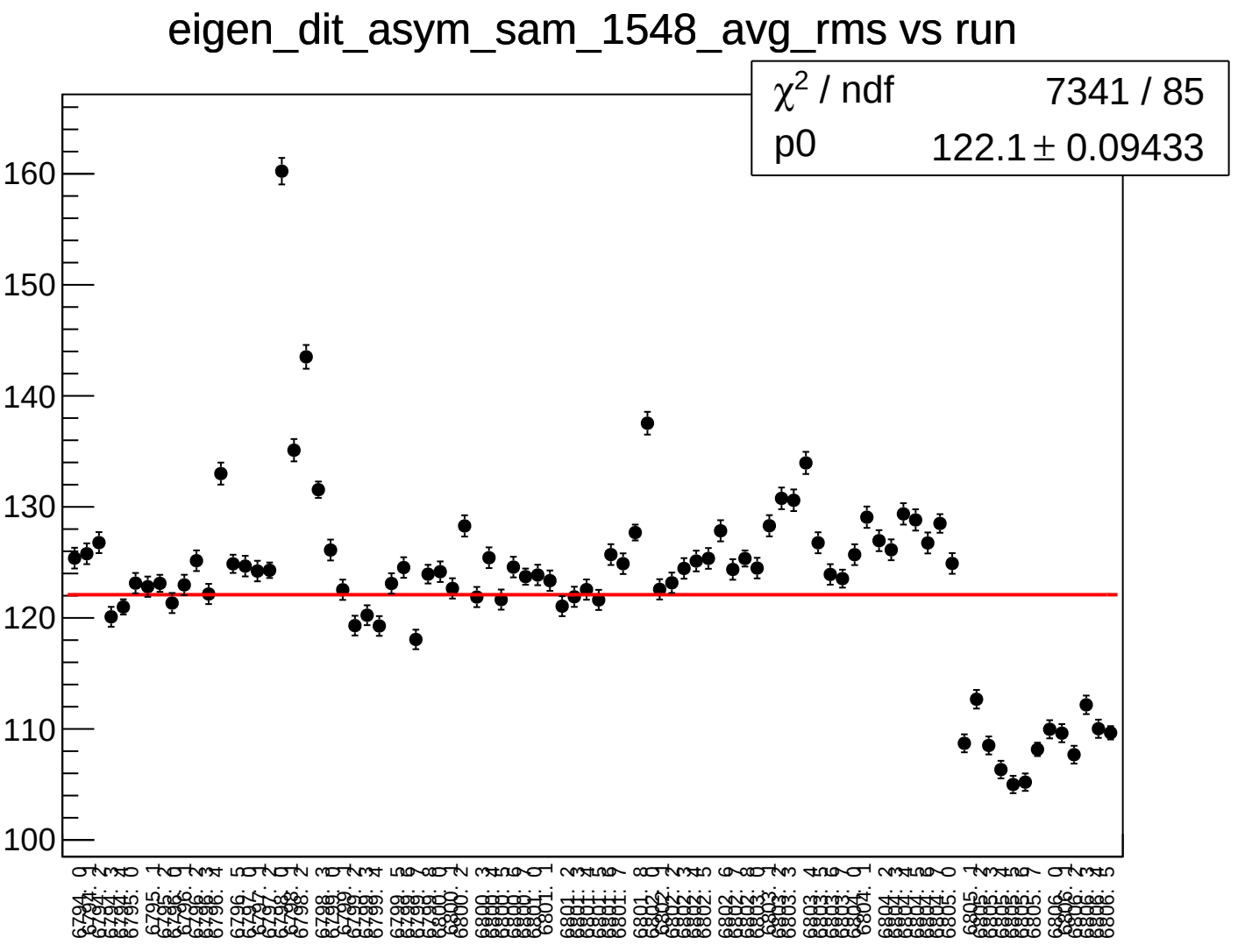

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 78.21 / 85
p0 −1062 ± 836.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −60.33
Std Dev 0
2
1
0
−1
−2

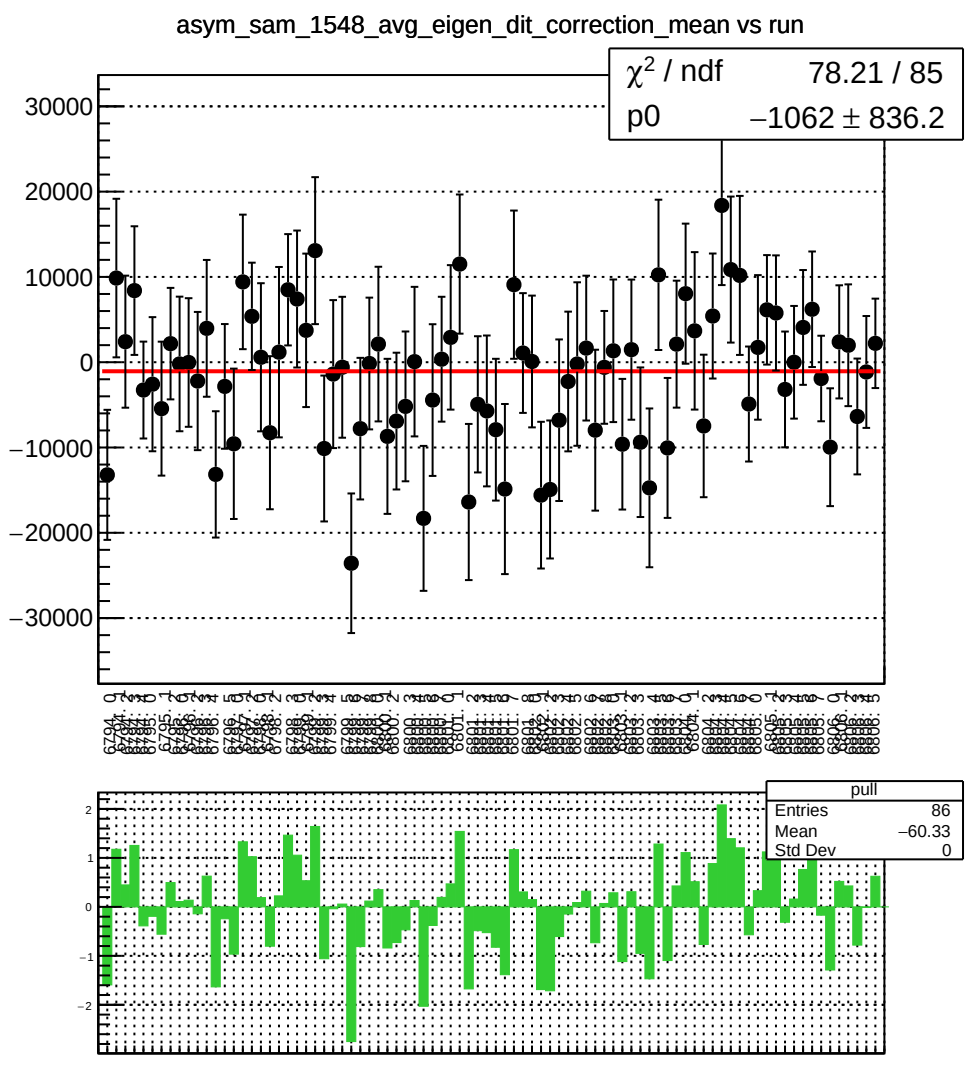

pull1D
Entries 86
Mean −0.02027
Std Dev 0.9534
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

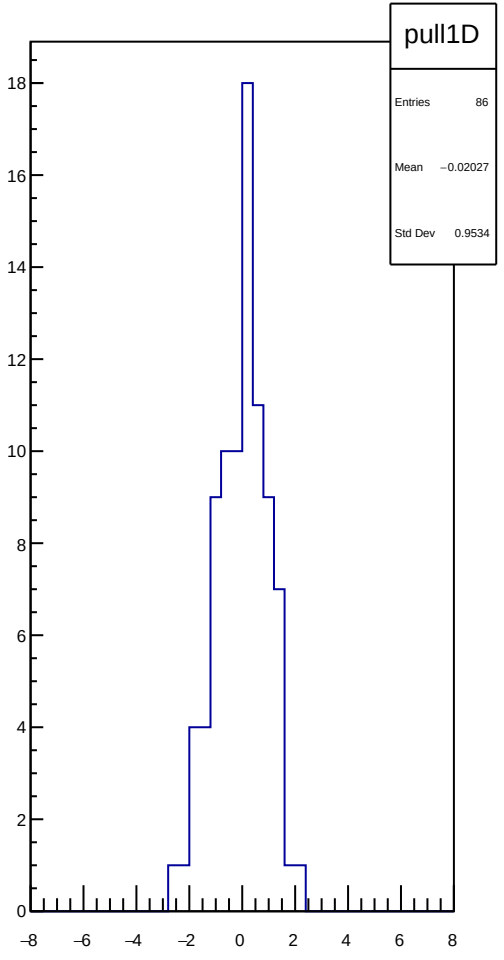

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 1.936e+04 / 85
p0 762.5 ± 0.5913
950
900
850
800
750
700
650
600

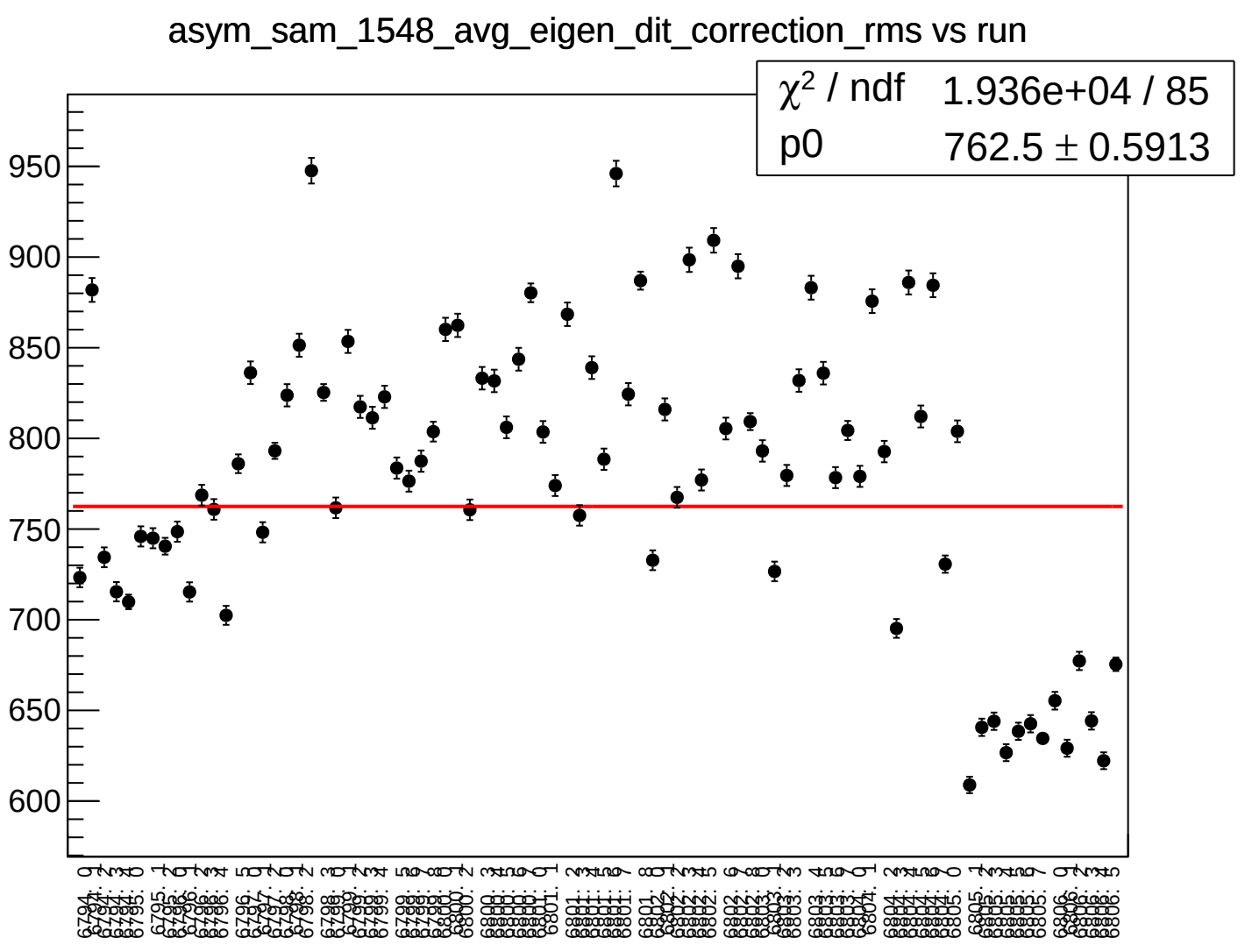

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 80.43 / 85
p0 −231.3 ± 133.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −625.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

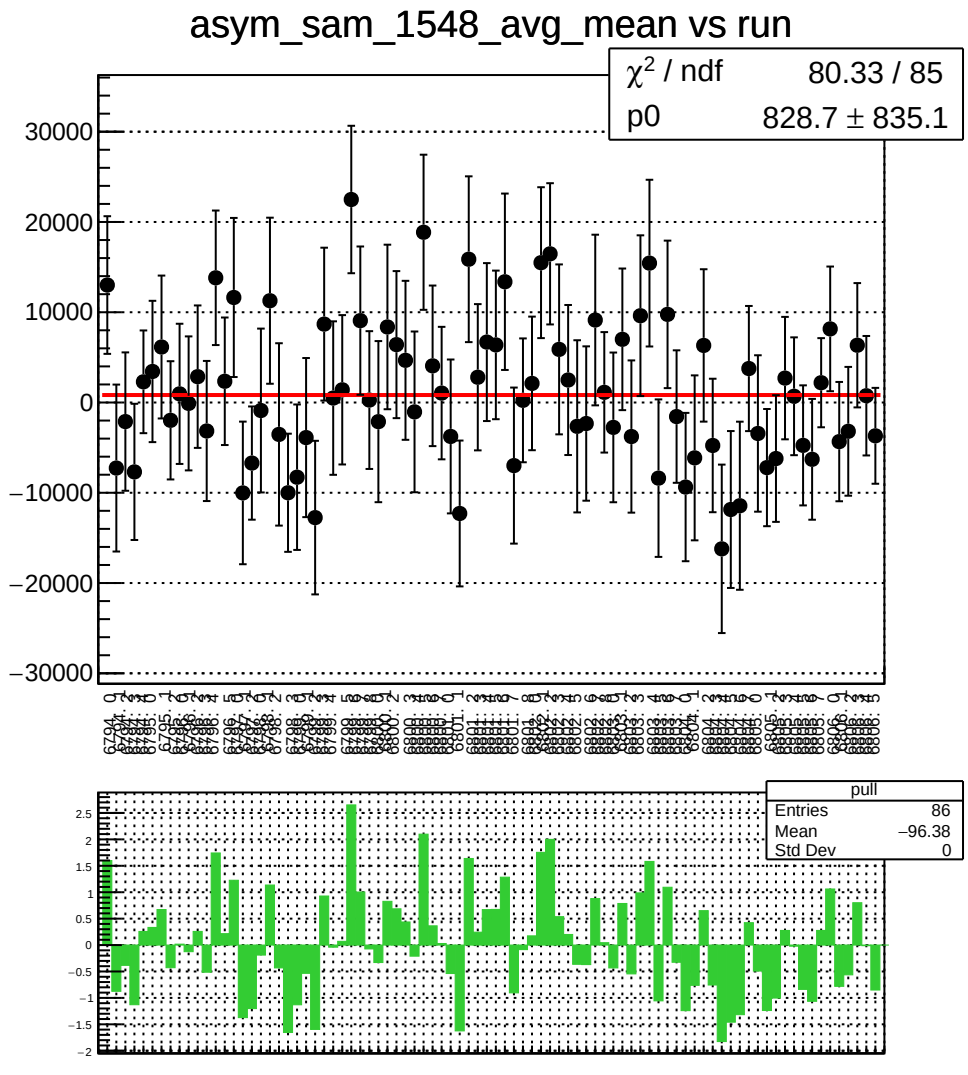

pull1D
Entries 86
Mean 0.009521
Std Dev 0.967
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

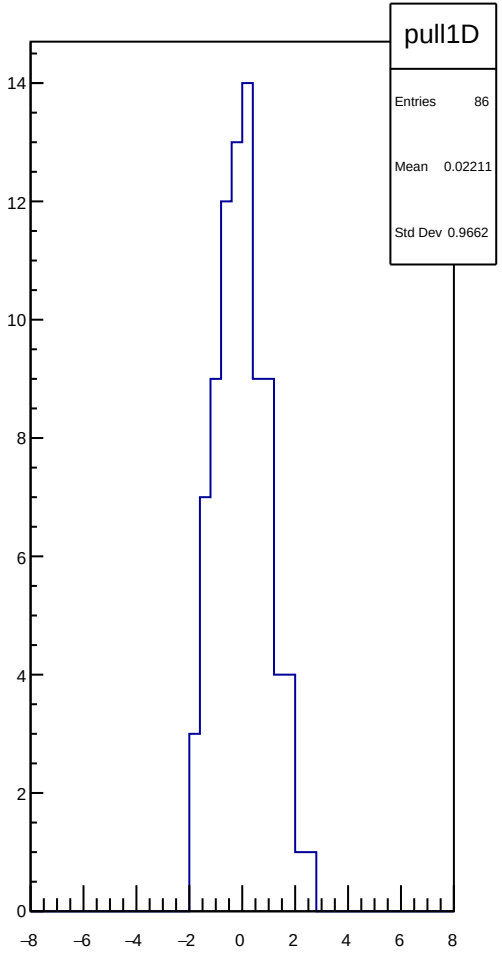

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 7341 / 85
p0 122.1 ± 0.09433
160
150
140
130
120
110
100

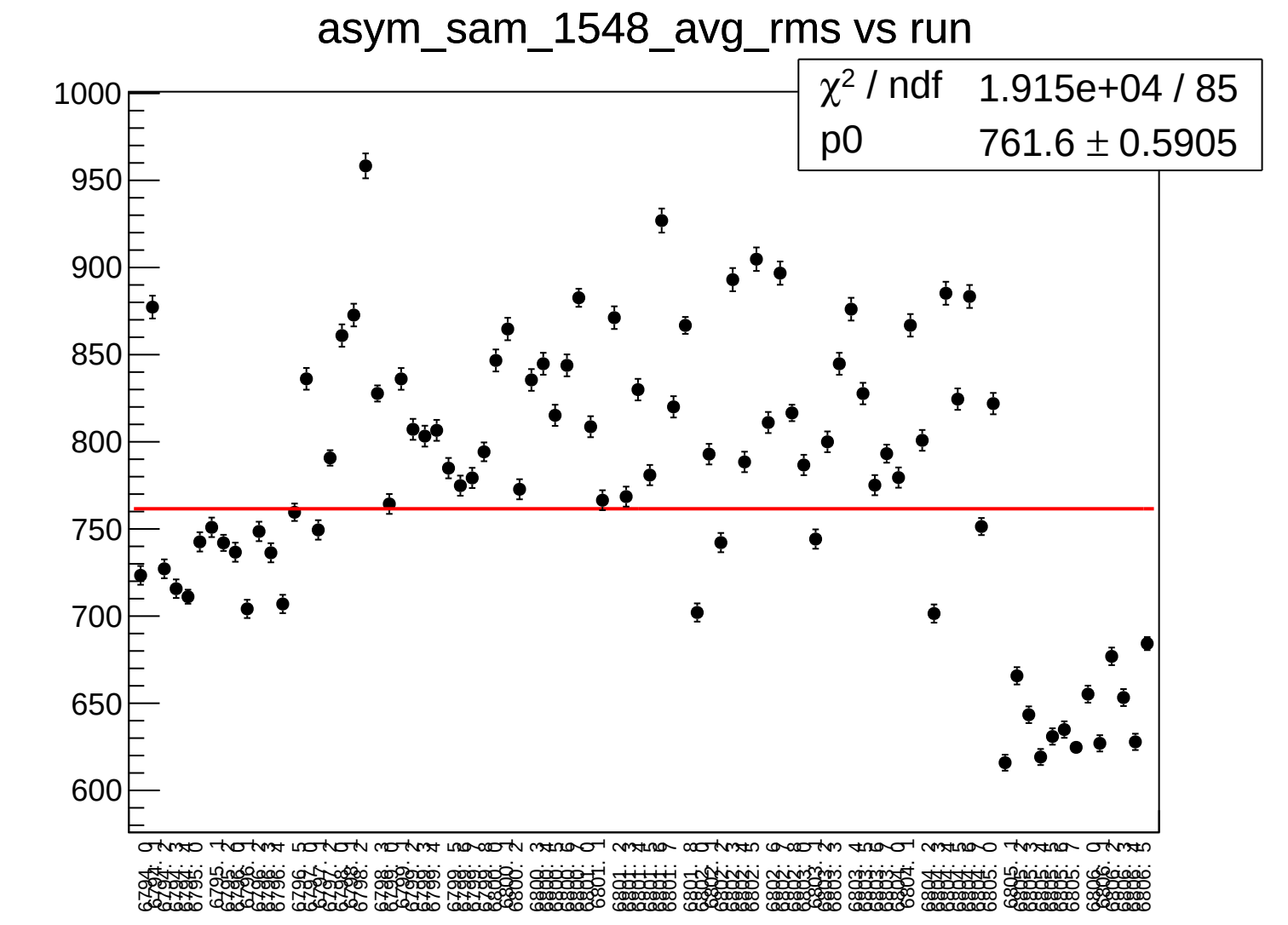

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 78.21 / 85
p0 −1062 ± 836.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −60.33
Std Dev 0
2
1
0
−1
−2

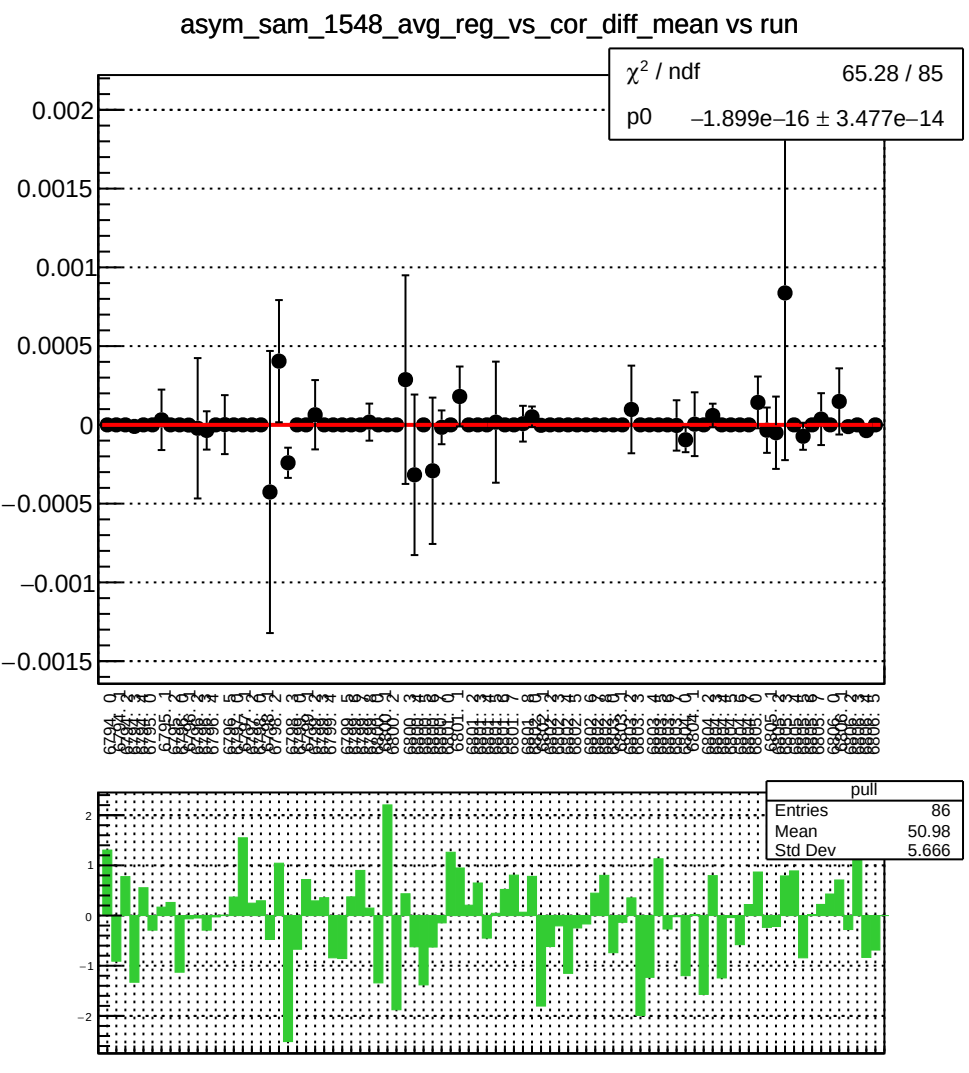

pull1D
Entries 86
Mean −0.02027
Std Dev 0.9534
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

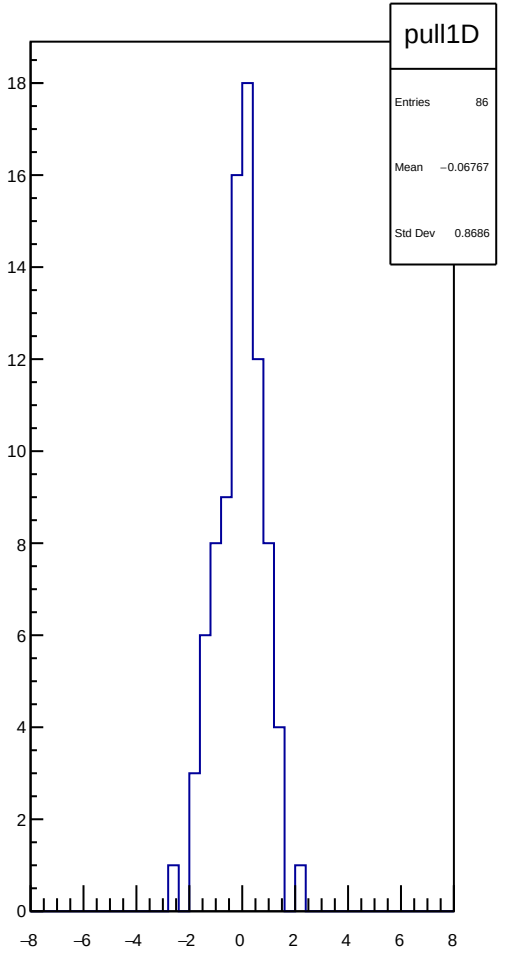

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.936e+04 / 85
p0 762.5 ± 0.5913
950
900
850
800
750
700
650
600

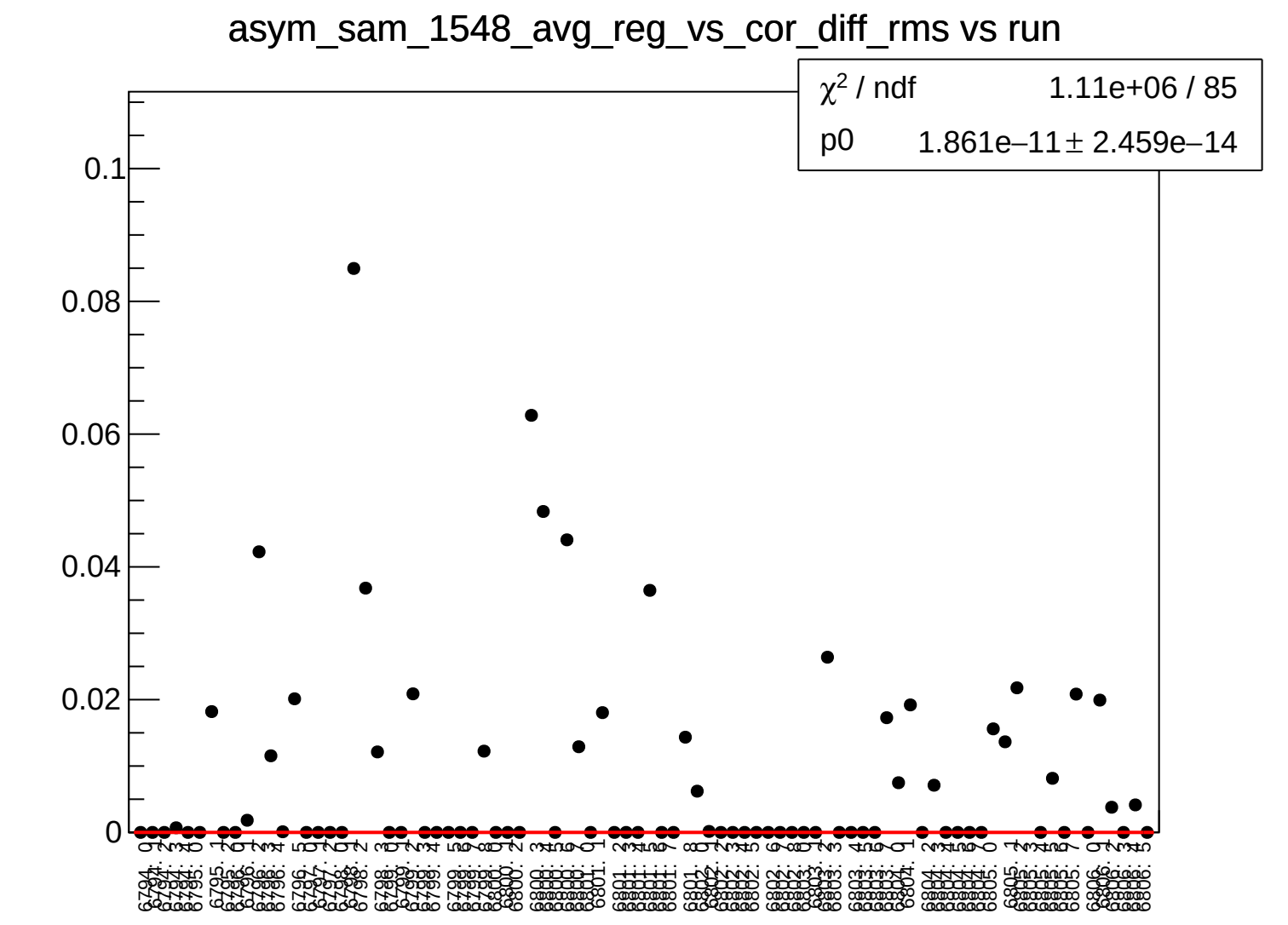

asym_sam_1548_avg_mean vs run
χ² / ndf 80.33 / 85
p0 828.7 ± 835.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −96.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

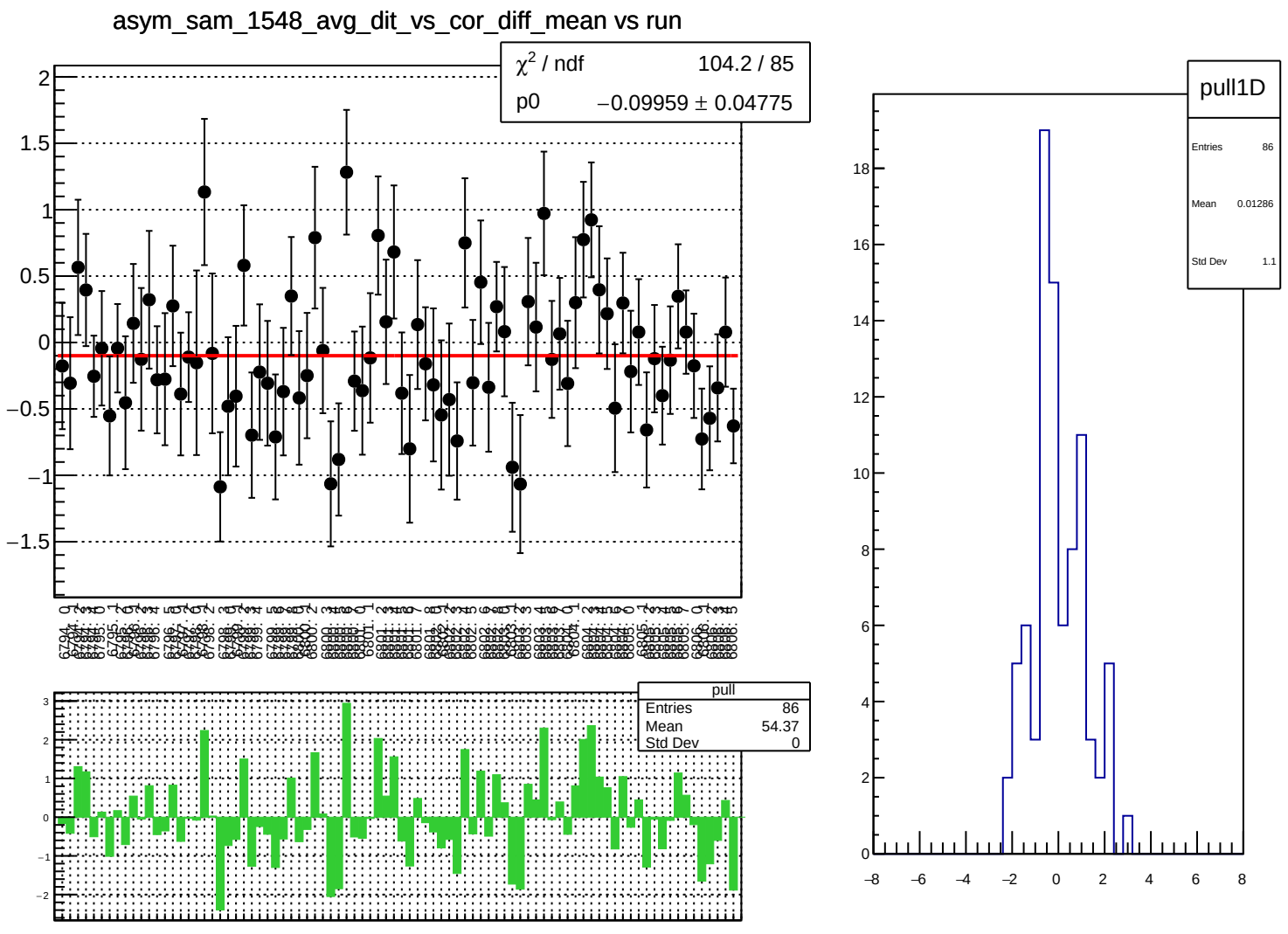

pull1D
Entries 86
Mean 0.02211
Std Dev 0.9662
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

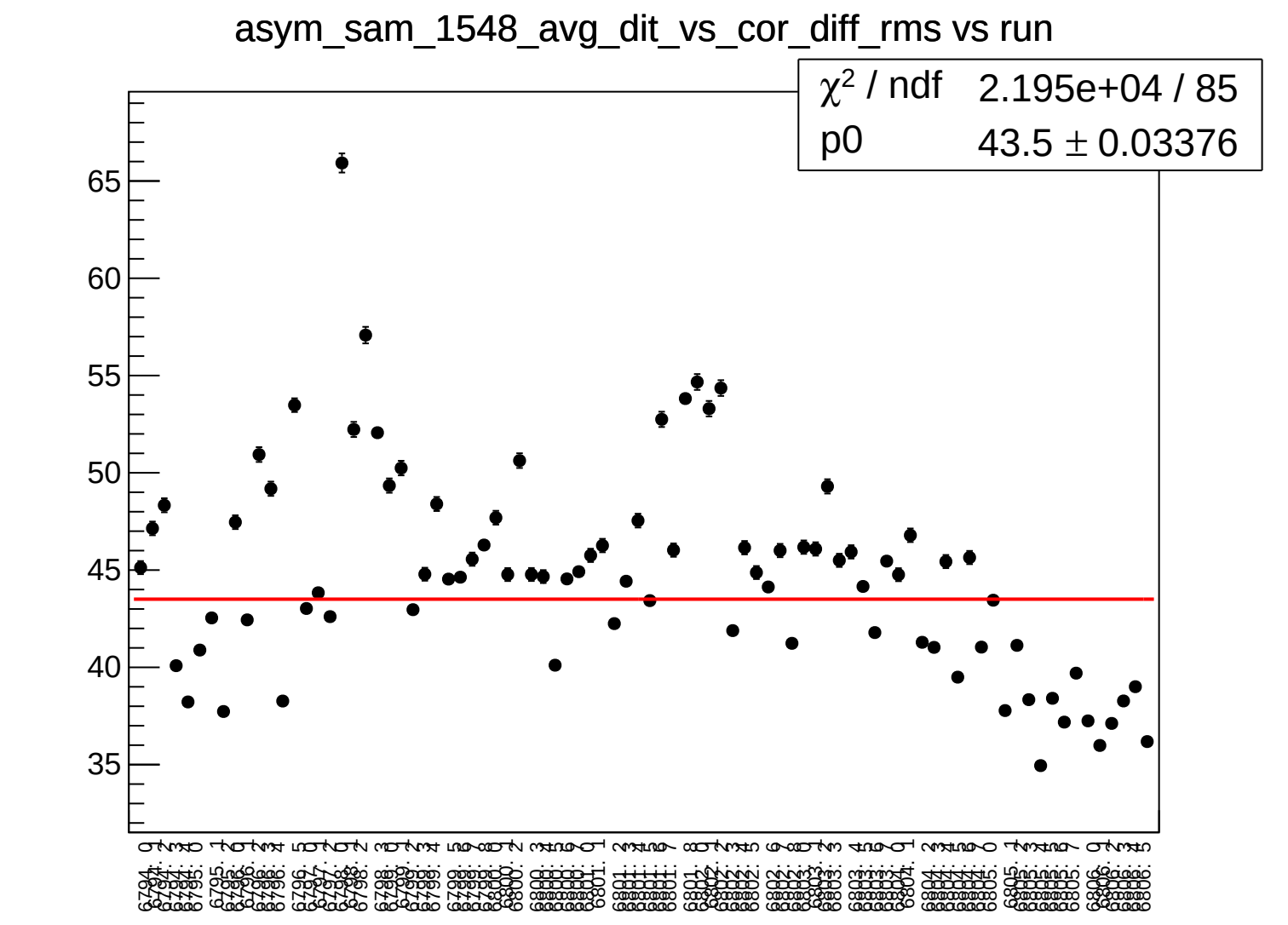

asym_sam_1548_avg_rms vs run
χ² / ndf 1.915e+04 / 85
p0 761.6 ± 0.5905
1000
950
900
850
800
750
700
650
600

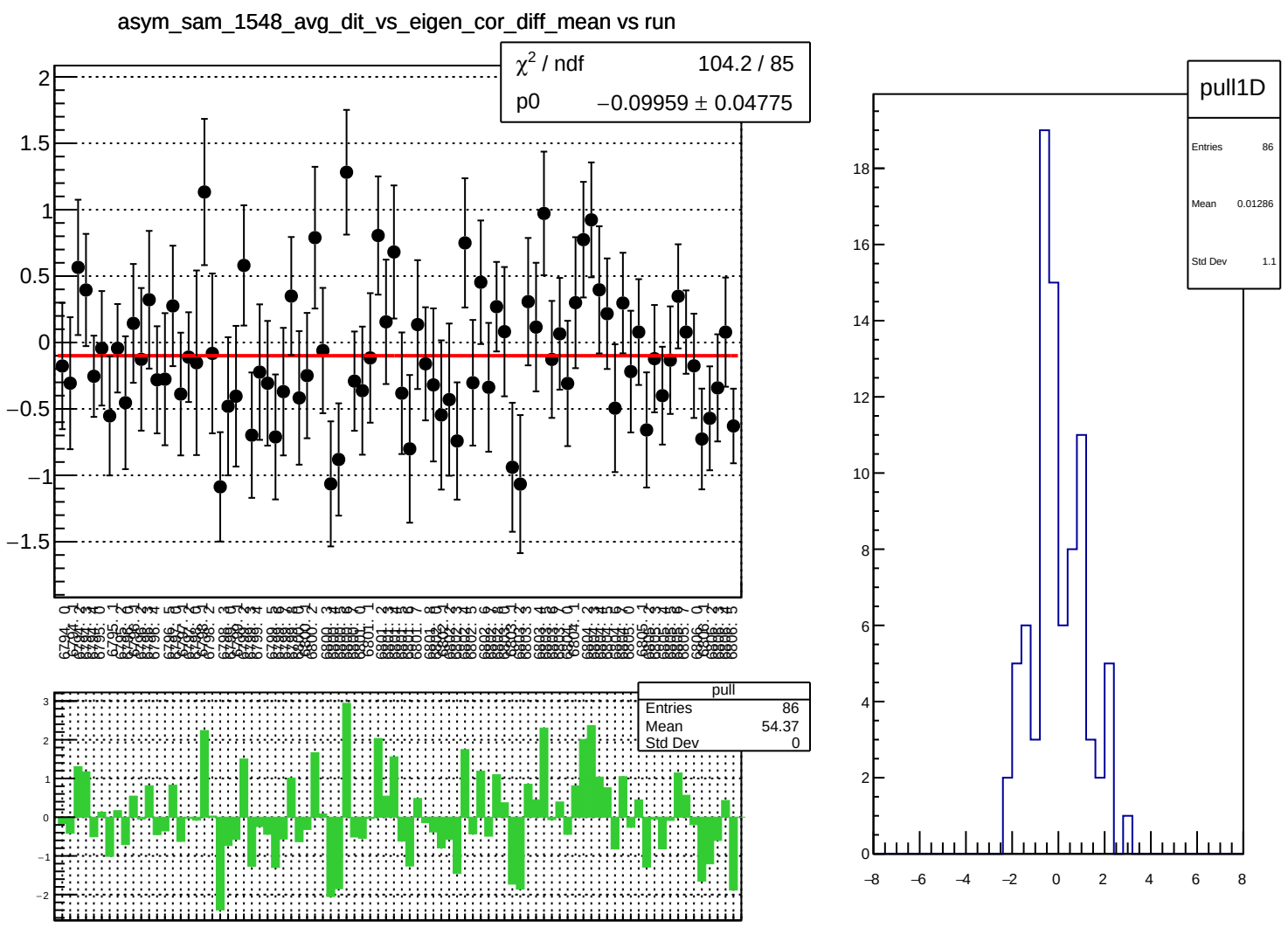

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.28 / 85
p0 −1.899e−16 ± 3.477e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 50.98
Std Dev 5.666
2
1
0
−1
−2

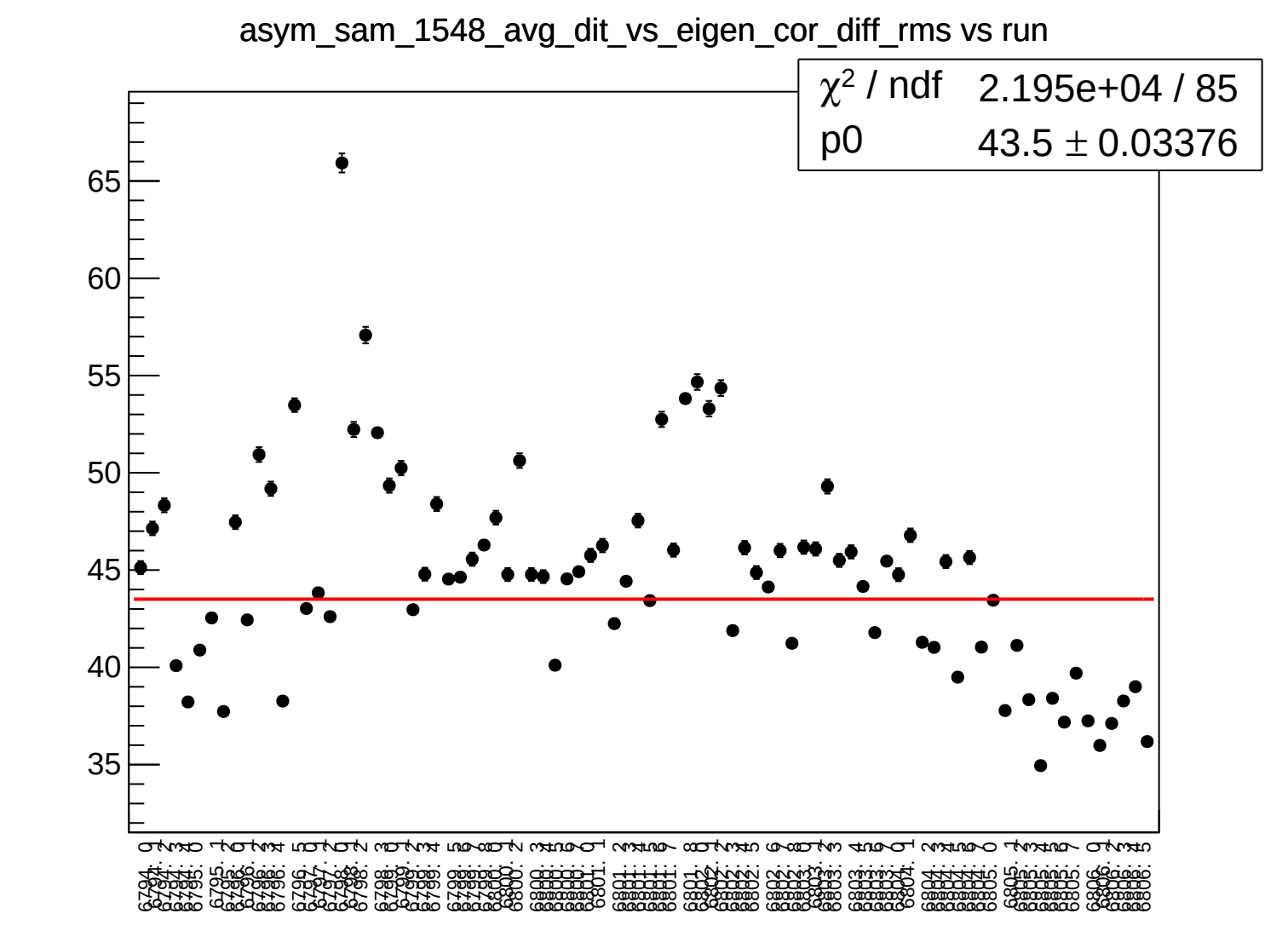

pull1D
Entries 86
Mean −0.06767
Std Dev 0.8686
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

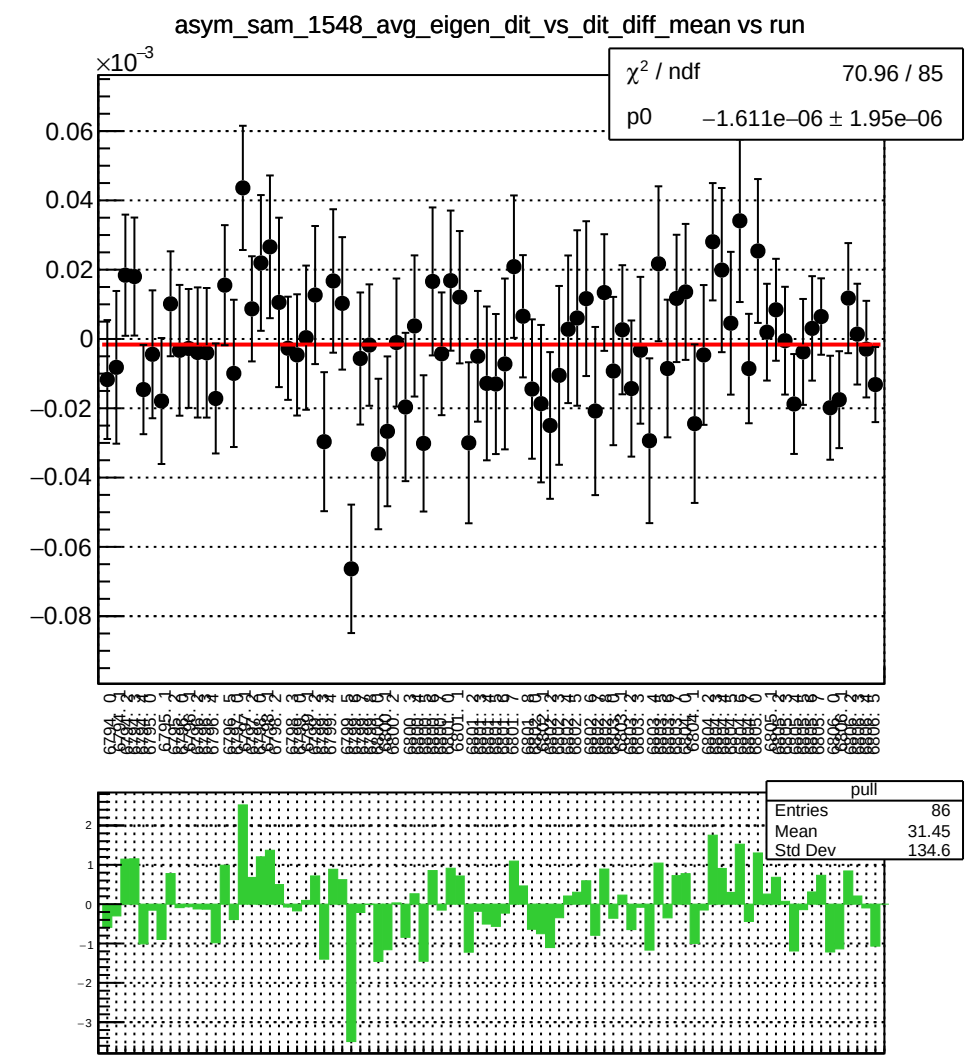

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.11e+06 / 85
p0 1.861e−11 ± 2.459e−14
0.1
0.08
0.06
0.04
0.02
0

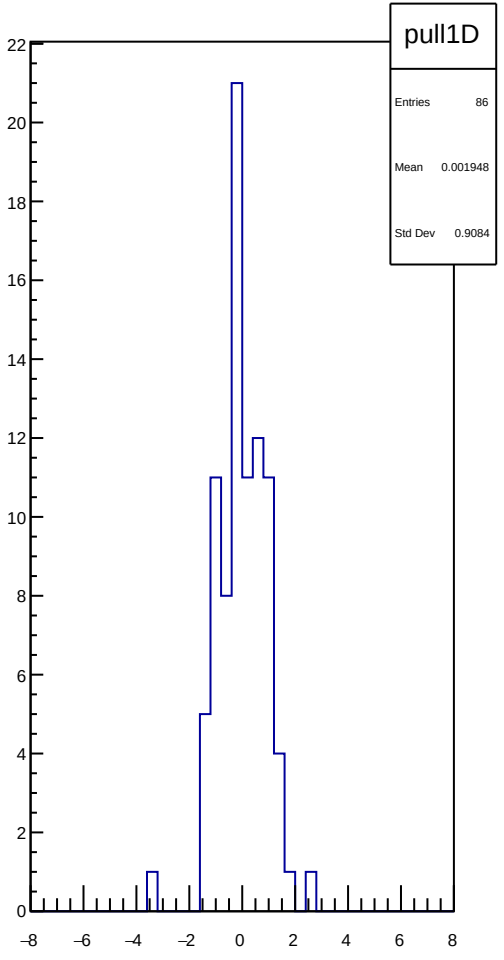

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 85
p0 −0.09959 ± 0.04775
pull
Entries 86
Mean 54.37
Std Dev 0
pull1D
Entries 86
Mean 0.01286
Std Dev 1.1

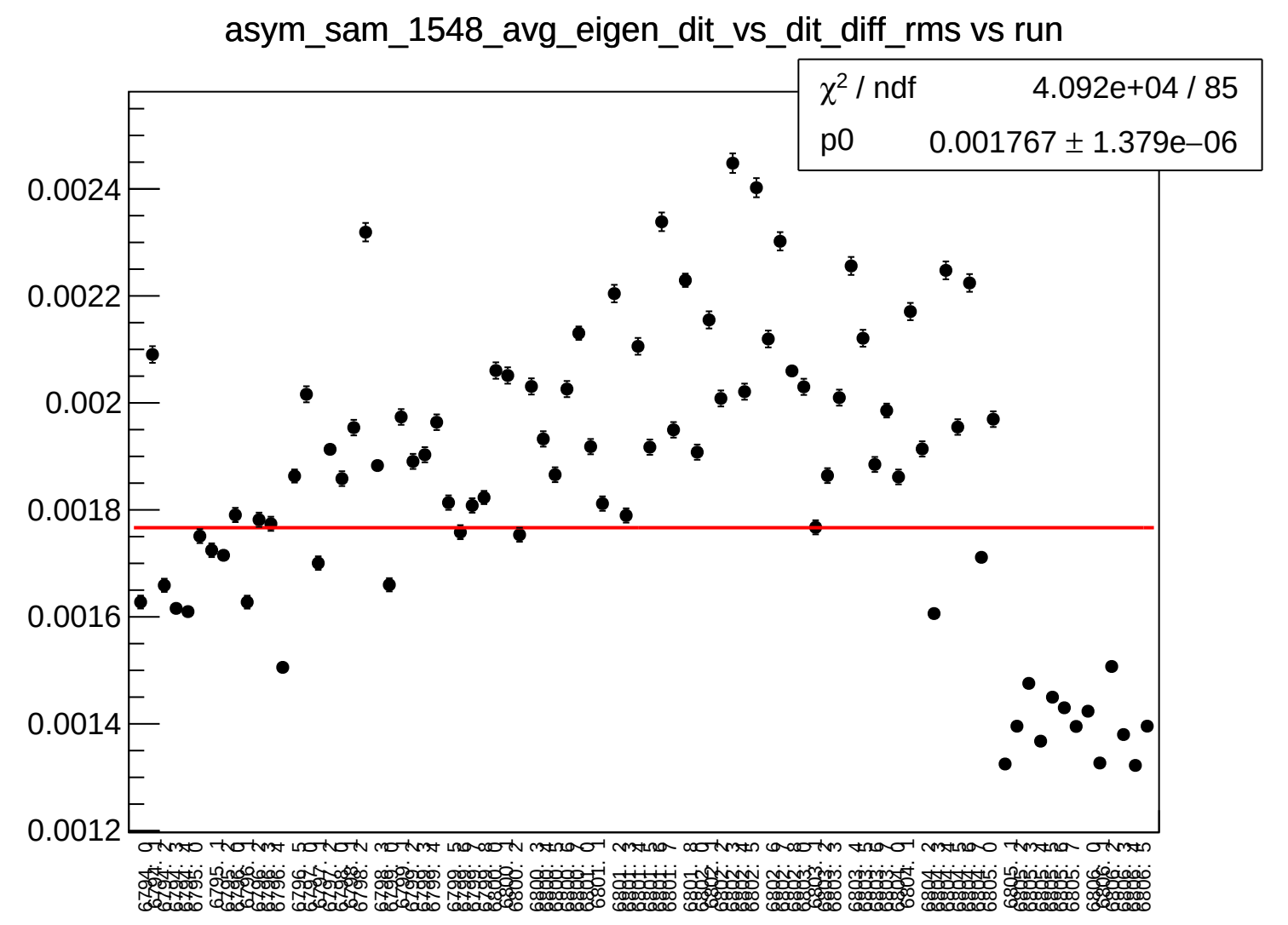

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+04 / 85
p0 43.5 ± 0.03376
65
60
55
50
45
40
35

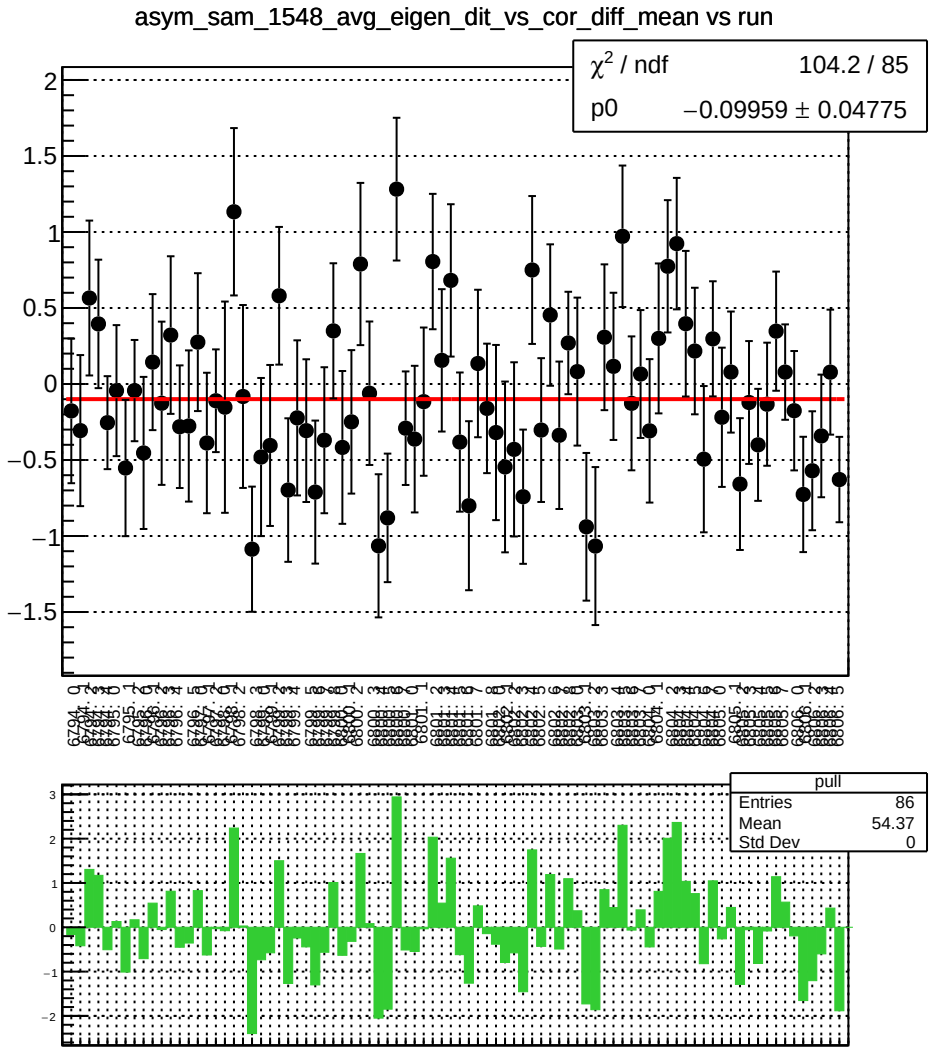

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 85
p0 −0.09959 ± 0.04775
pull
Entries 86
Mean 54.37
Std Dev 0
pull1D
Entries 86
Mean 0.01286
Std Dev 1.1

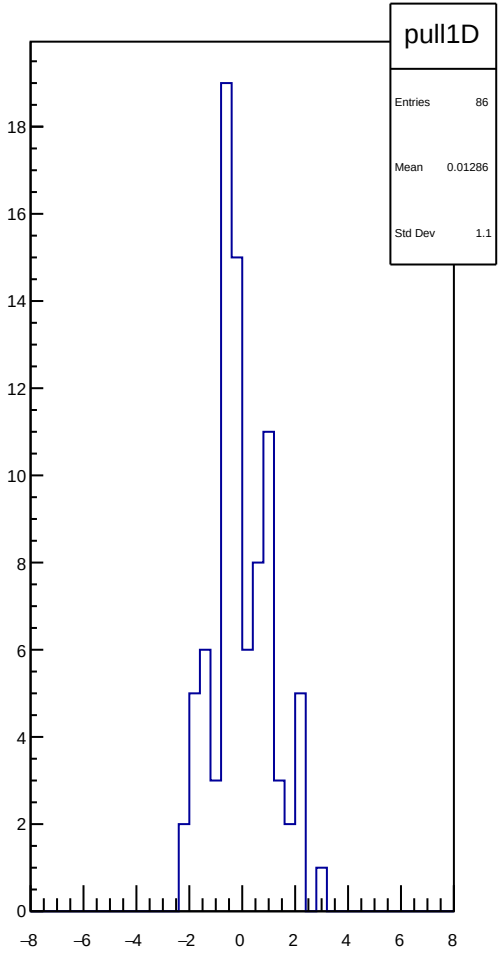

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+04 / 85
p0 43.5 ± 0.03376
65
60
55
50
45
40
35

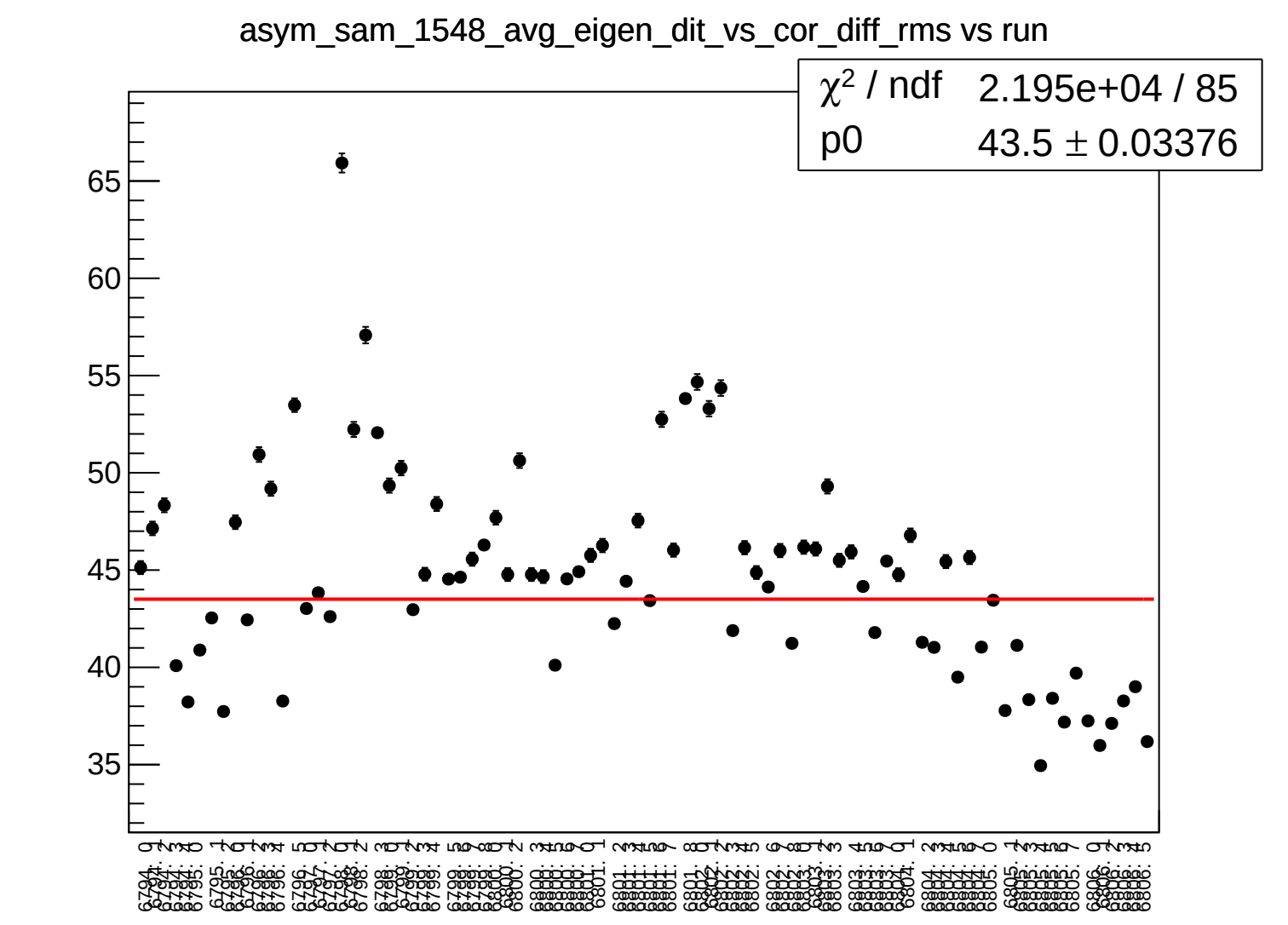

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.96 / 85
p0 −1.611e−06 ± 1.95e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean 31.45
Std Dev 134.6
2
1
0
−1
−2
−3

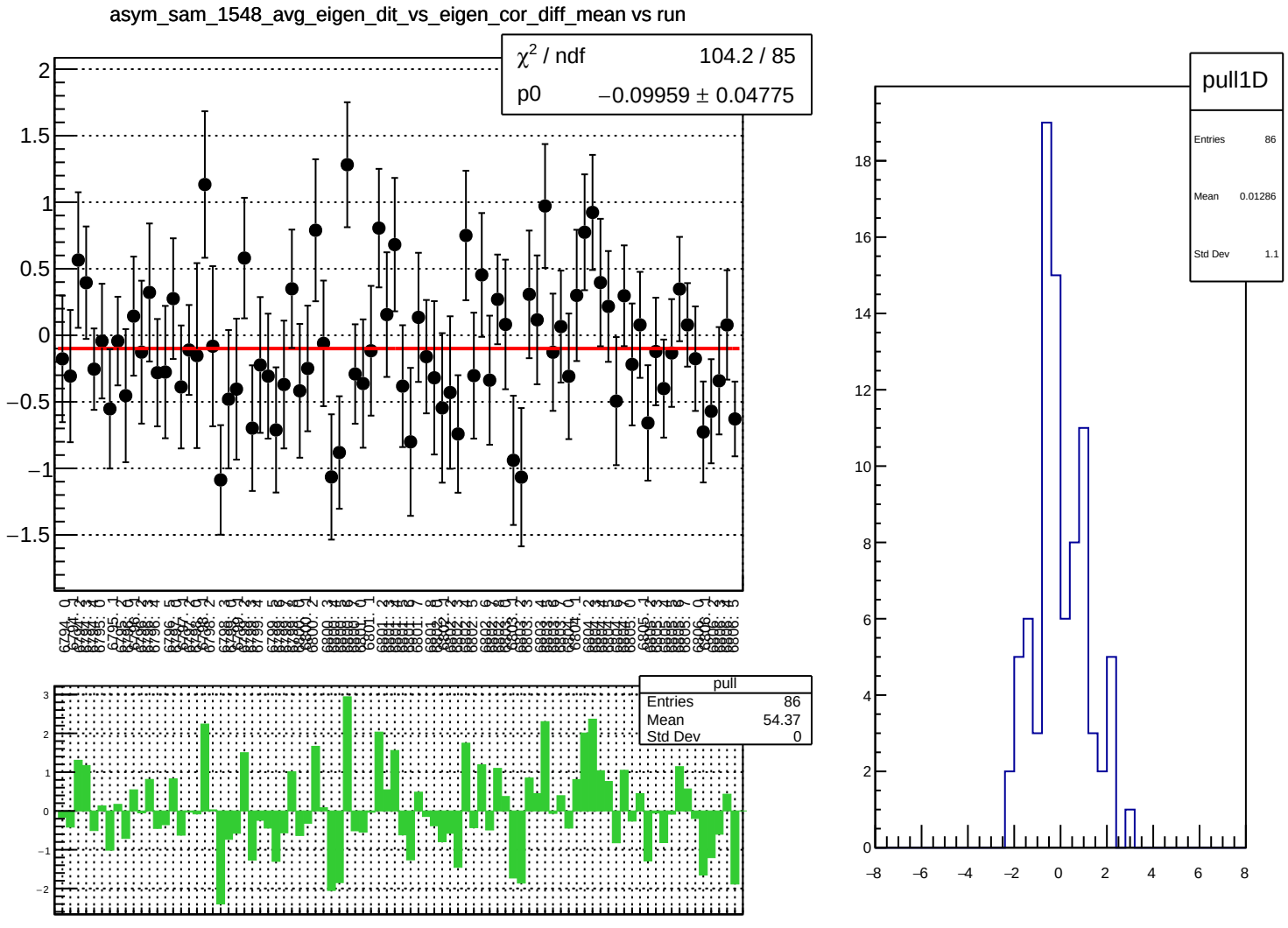

pull1D
Entries 86
Mean 0.001948
Std Dev 0.9084
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

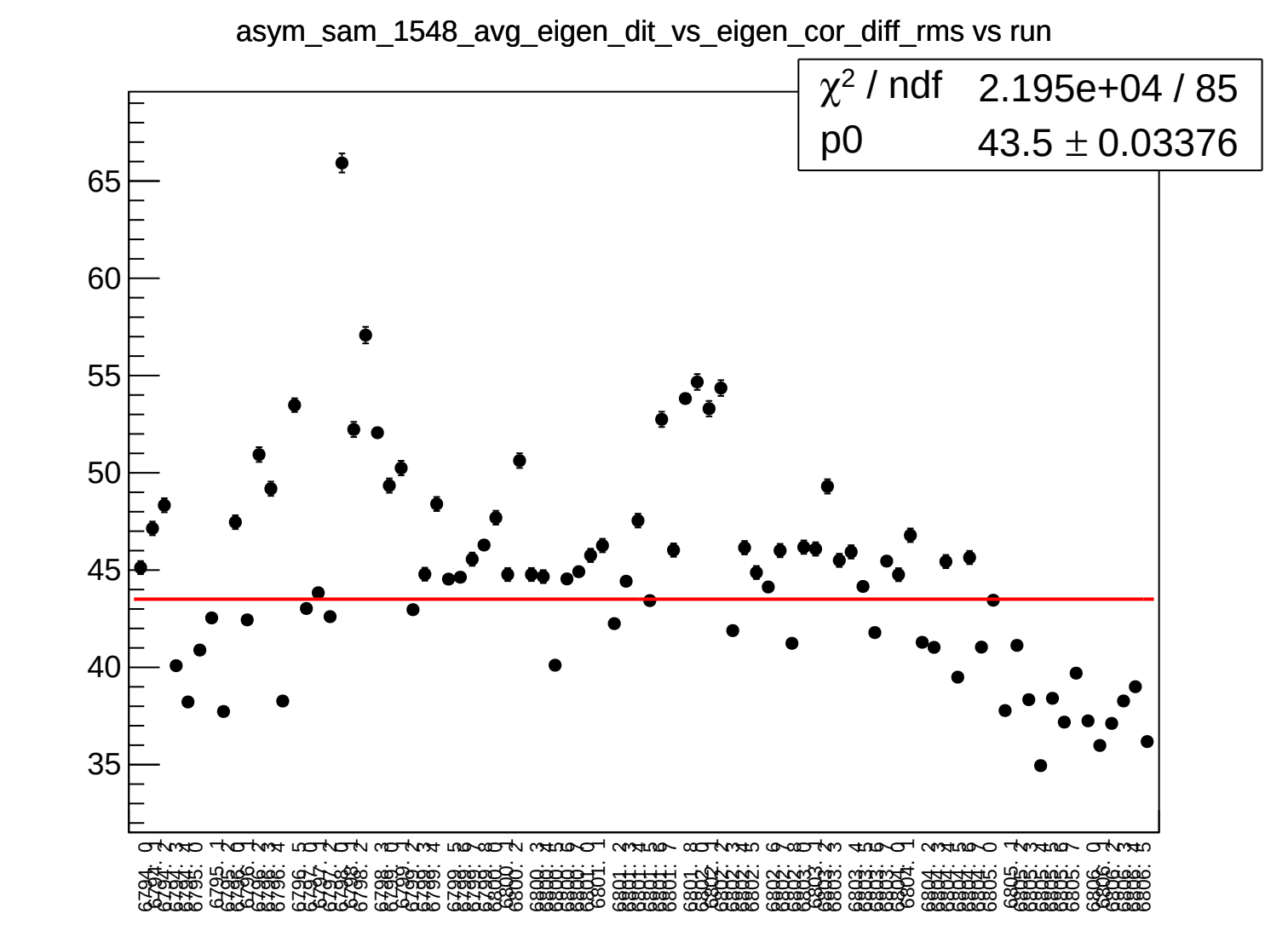

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.092e+04 / 85
p0 0.001767 ± 1.379e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

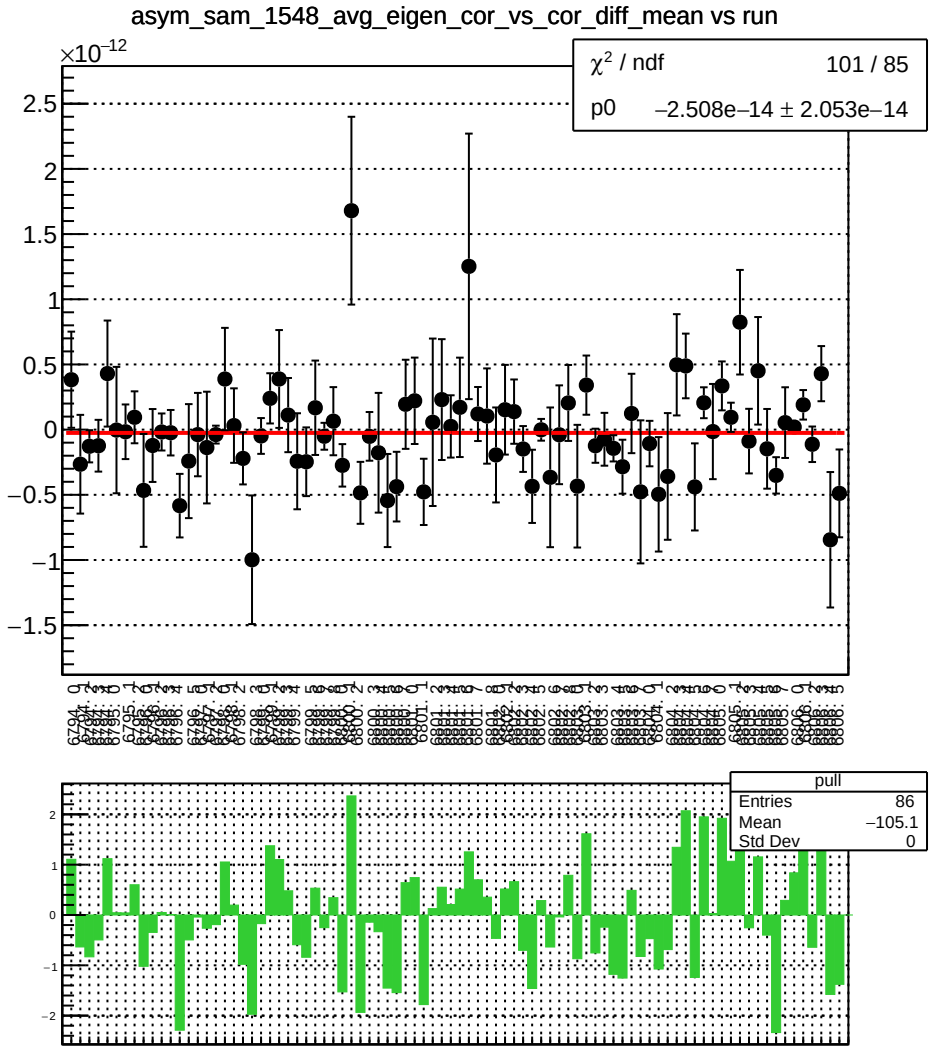

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 85
p0 −0.09959 ± 0.04775
pull
Entries 86
Mean 54.37
Std Dev 0

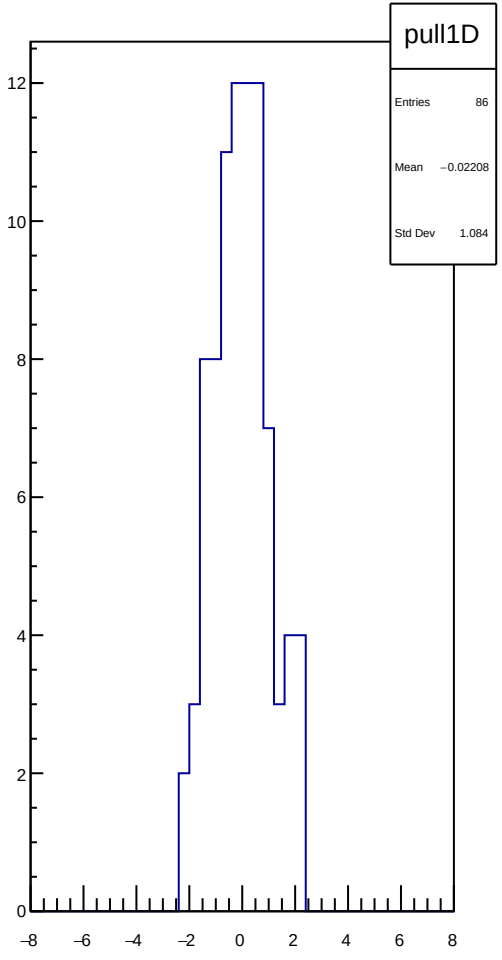

pull1D
Entries 86
Mean 0.01286
Std Dev 1.1

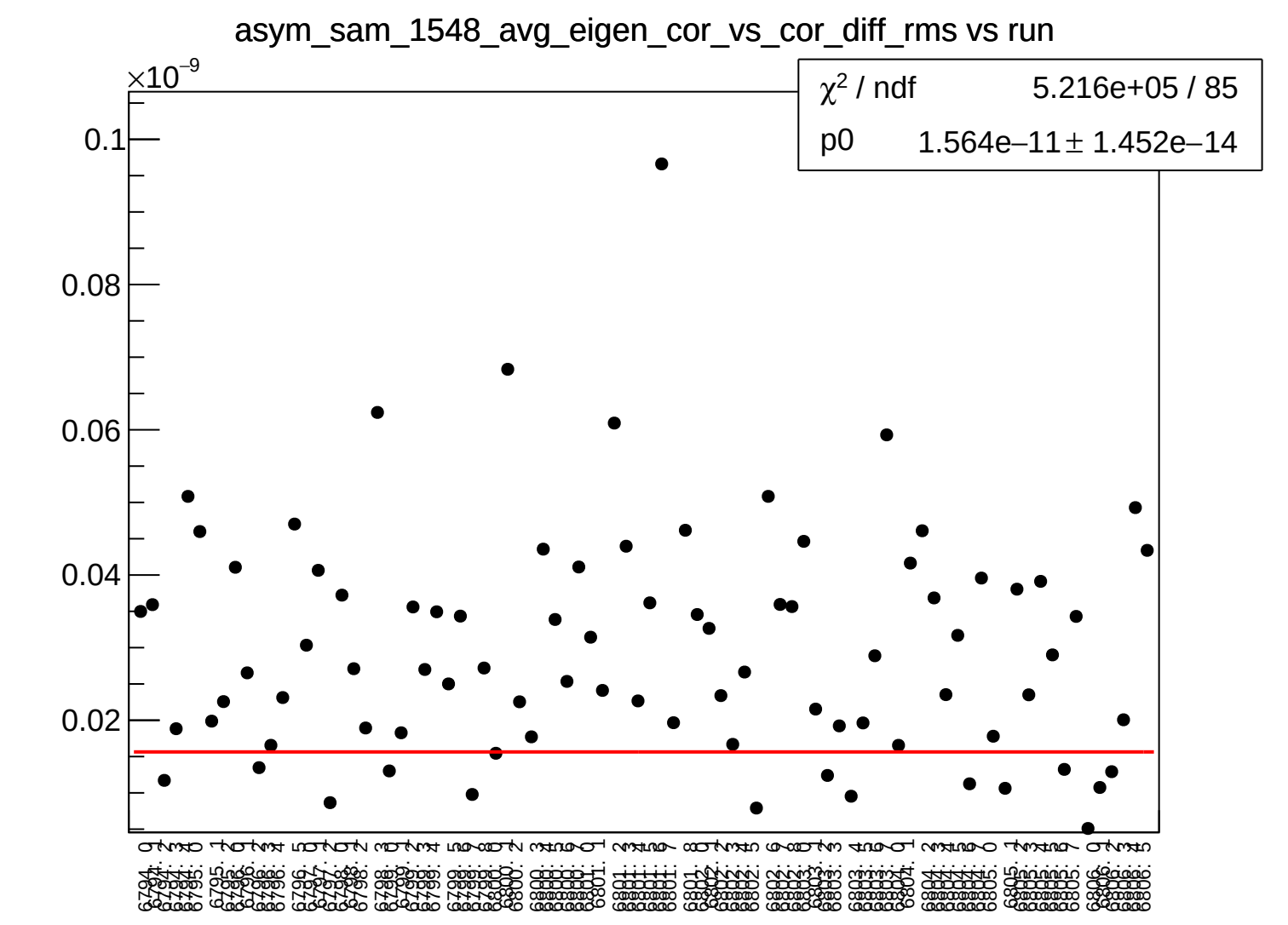

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.195e+04 / 85
p0 43.5 ± 0.03376
65
60
55
50
45
40
35

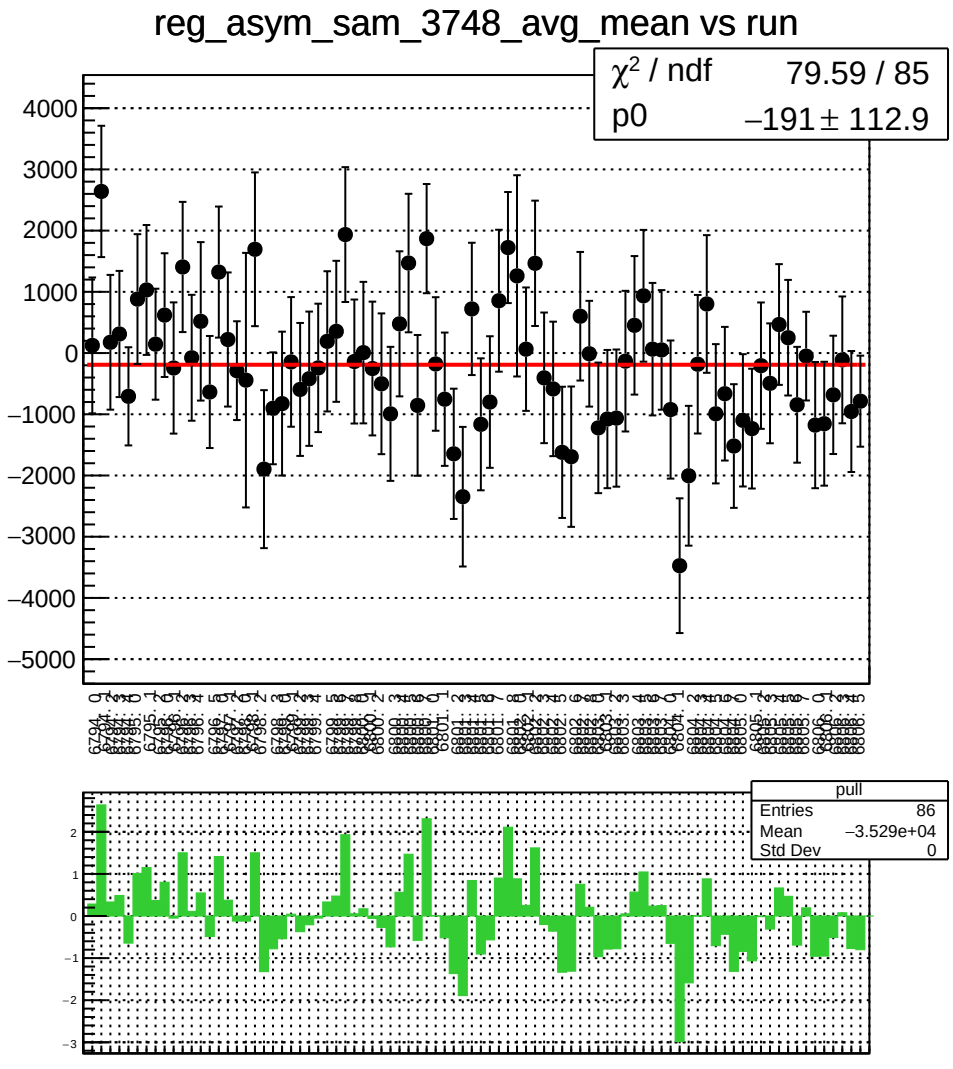

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 85
p0 −0.09959 ± 0.04775
pull
Entries 86
Mean 54.37
Std Dev 0
pull1D
Entries 86
Mean 0.01286
Std Dev 1.1

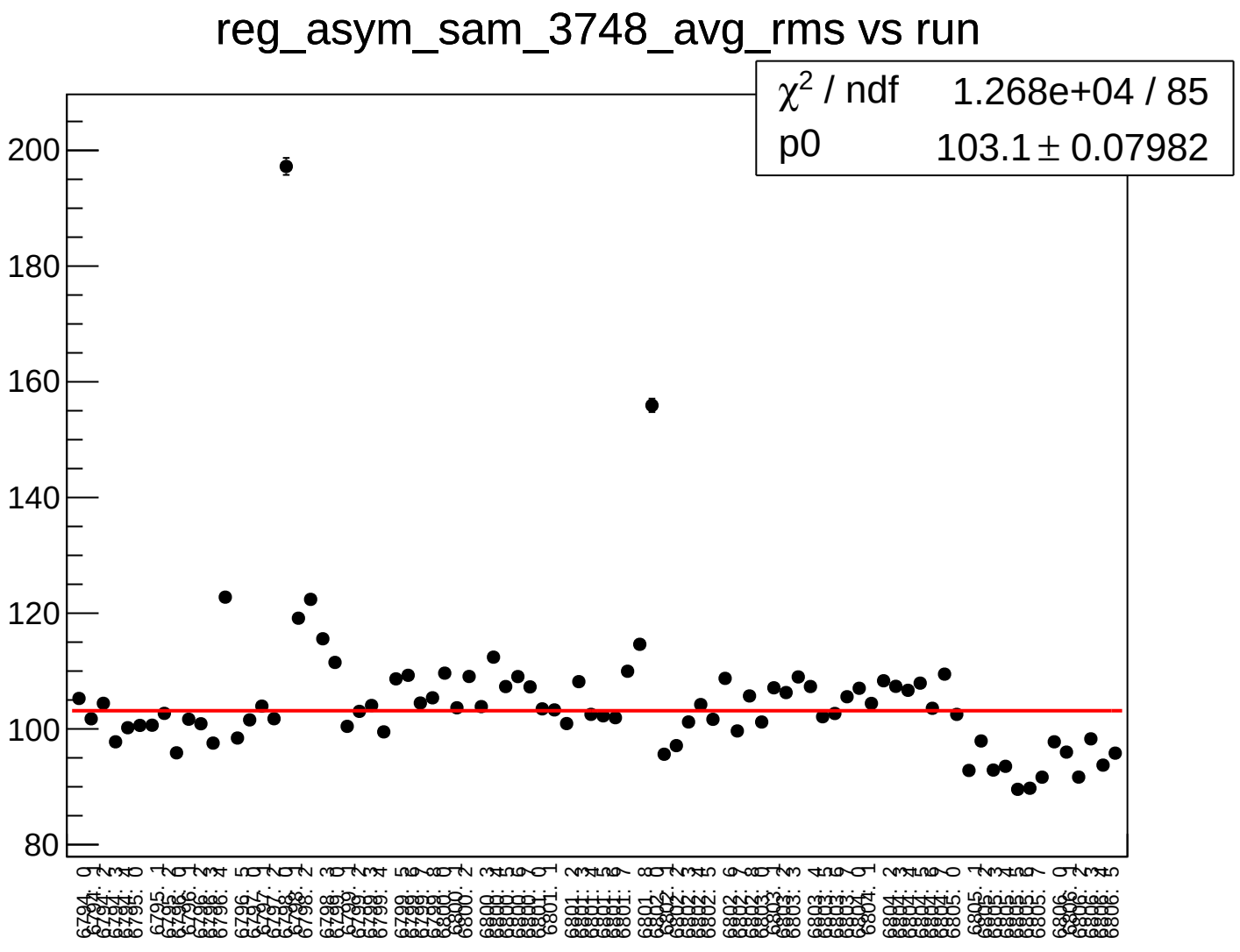

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.195e+04 / 85
p0 43.5 ± 0.03376
65
60
55
50
45
40
35

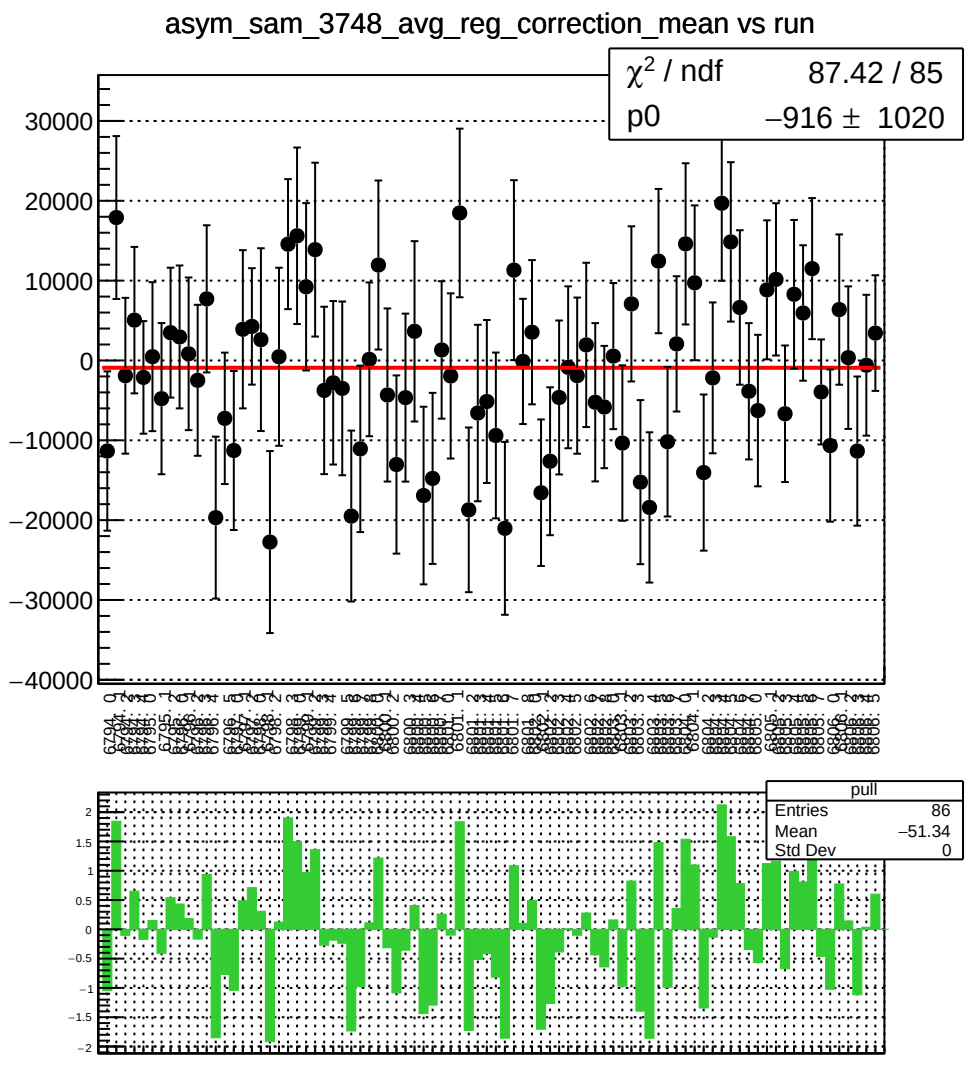

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101 / 85
p0 −2.508e−14 ± 2.053e−14
pull
Entries 86
Mean −105.1
Std Dev 0

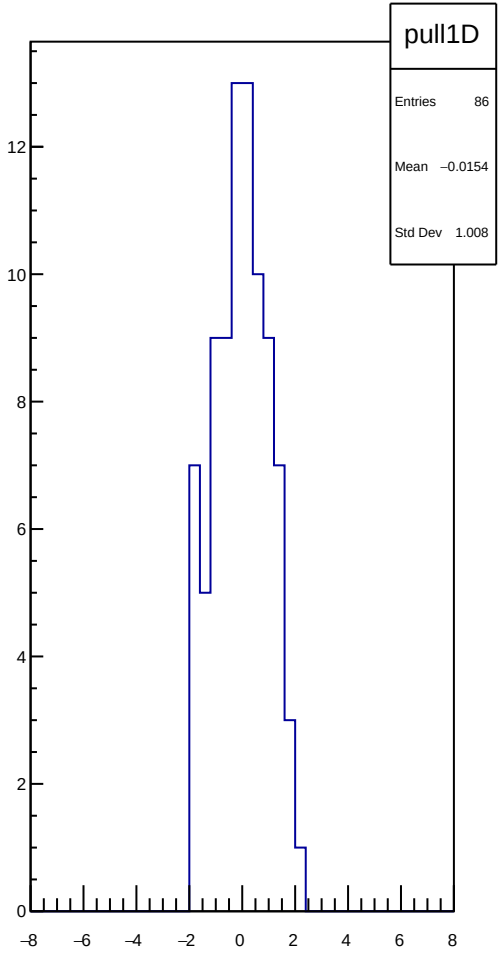

pull1D
Entries 86
Mean −0.02208
Std Dev 1.084

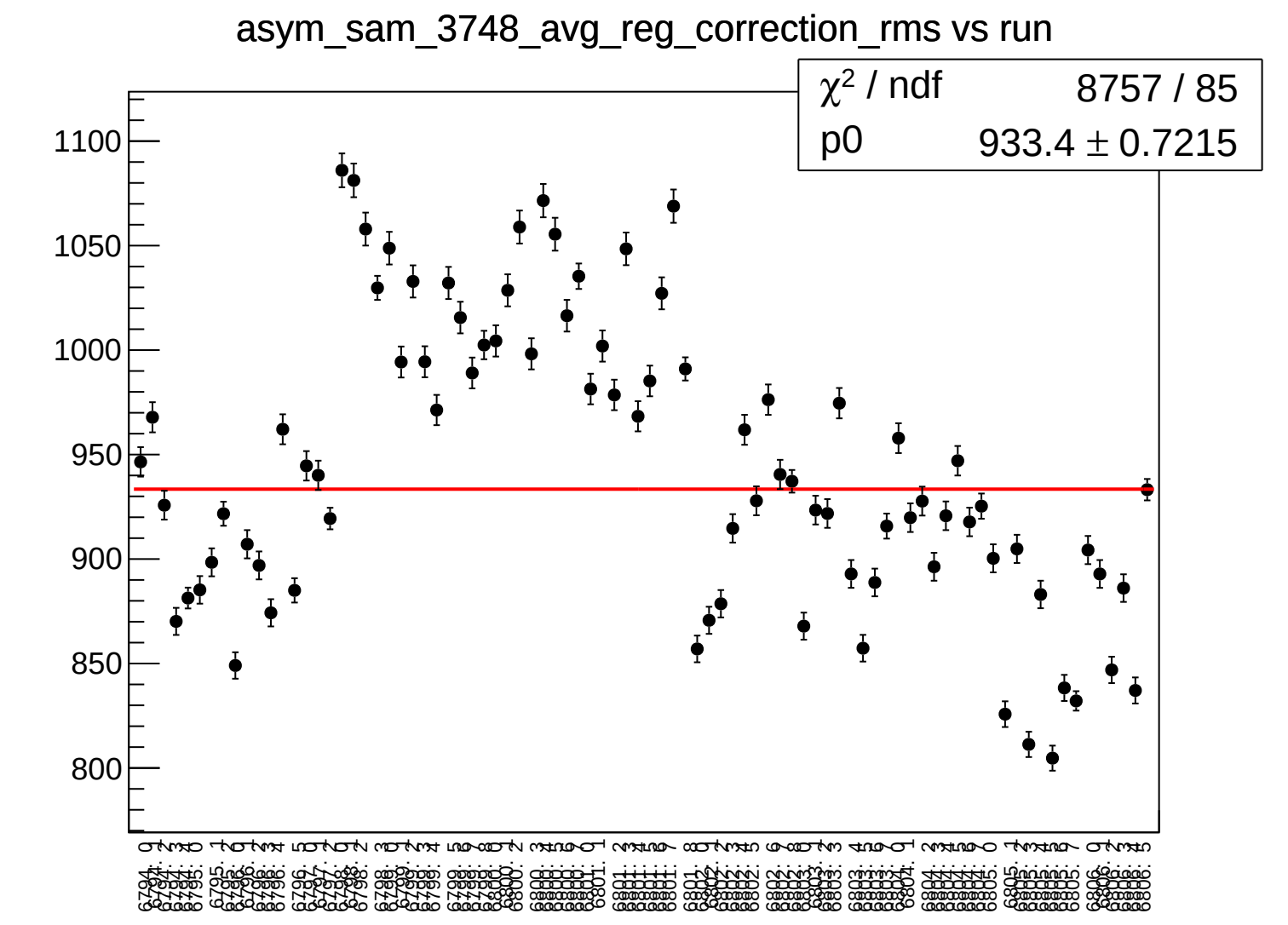

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.216e+05 / 85
p0 1.564e−11 ± 1.452e−14
0.1
0.08
0.06
0.04
0.02

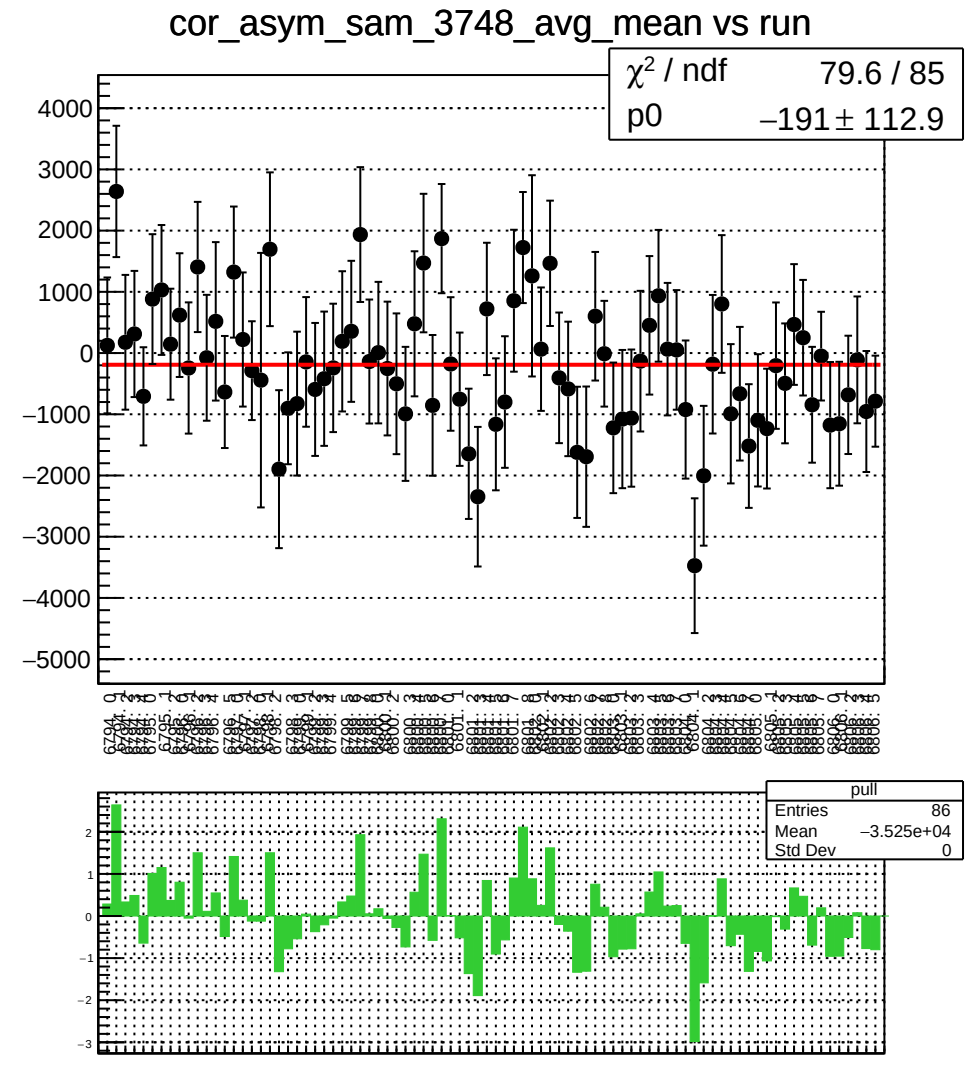

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 79.59 / 85
p0 −191 ± 112.9
pull
Entries 86
Mean −3.529e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0002376
Std Dev 0.962

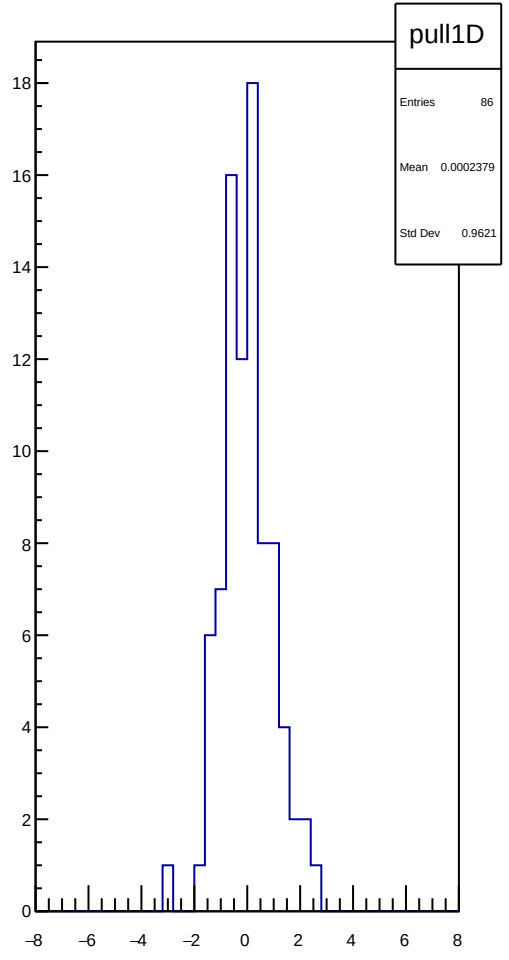

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.268e+04 / 85
p0 103.1 ± 0.07982
200
180
160
140
120
100
80

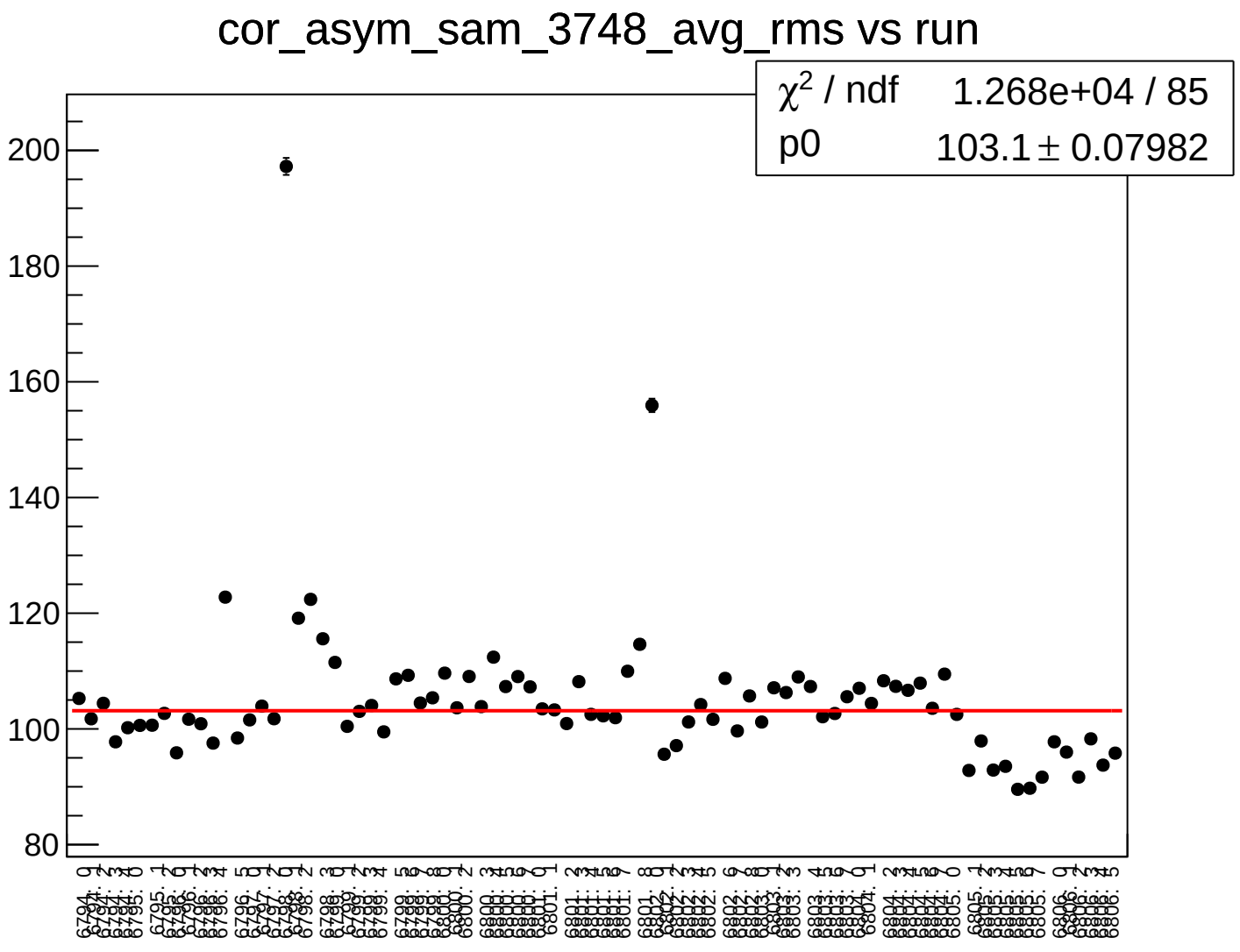

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 87.42 / 85
p0 −916 ± 1020
pull
Entries 86
Mean −51.34
Std Dev 0

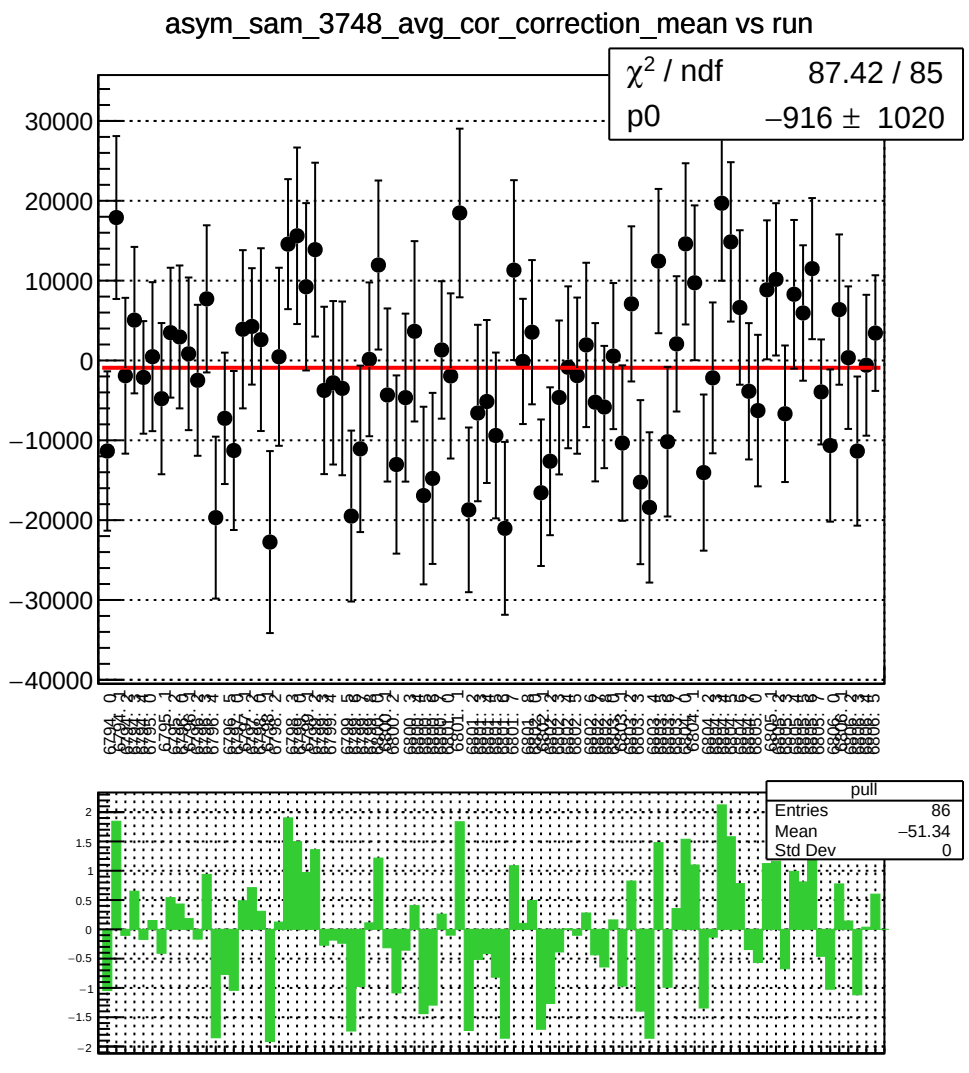

pull1D
Entries 86
Mean −0.0154
Std Dev 1.008

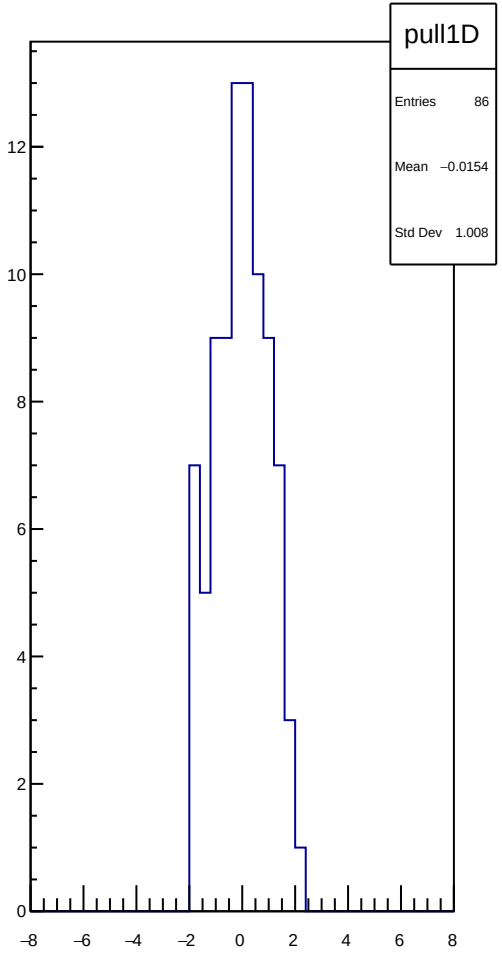

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 8757 / 85
p0 933.4 ± 0.7215
1100
1050
1000
950
900
850
800

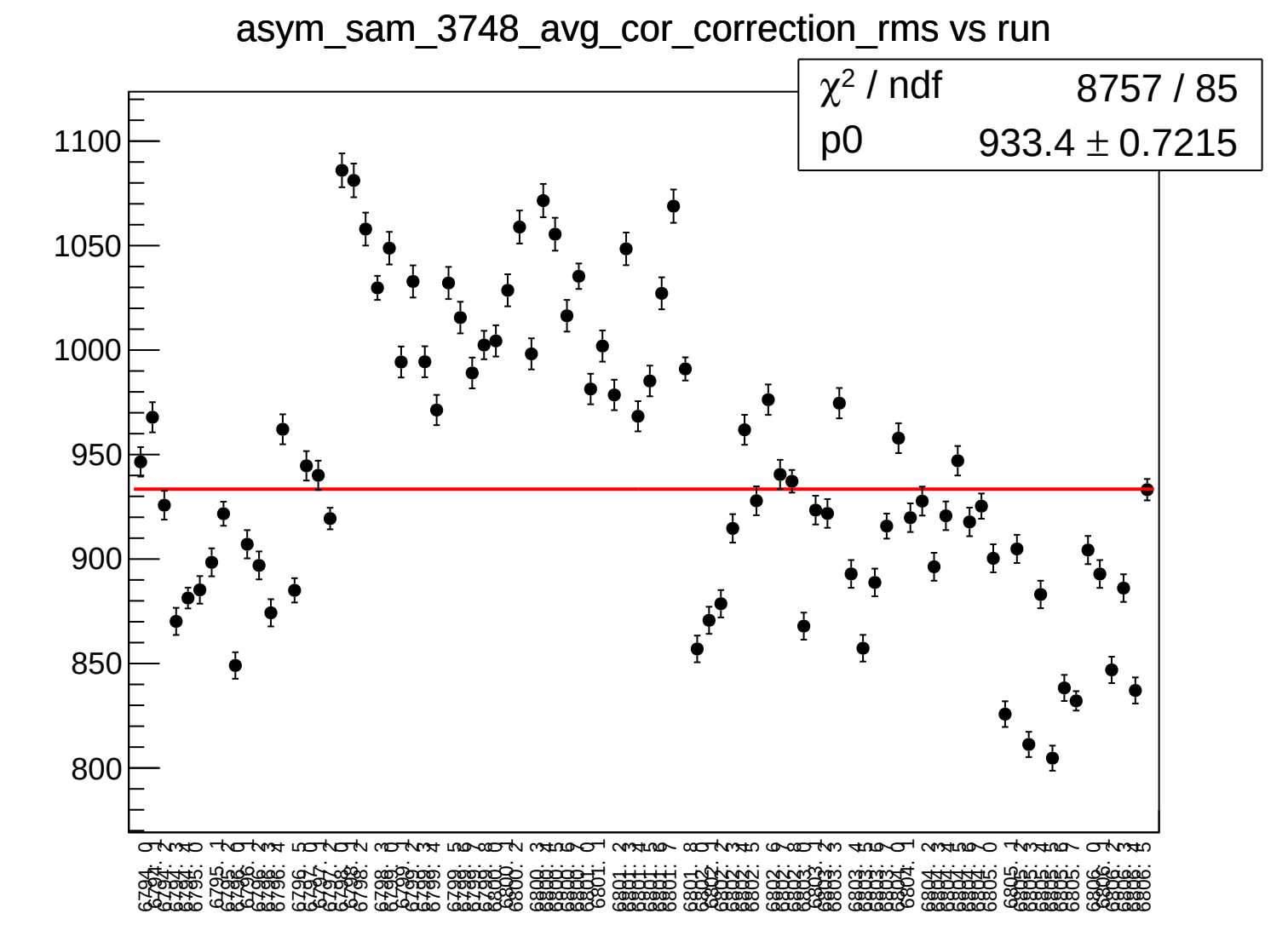

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.6 / 85
p0 −191 ± 112.9
pull
Entries 86
Mean −3.525e+04
Std Dev 0

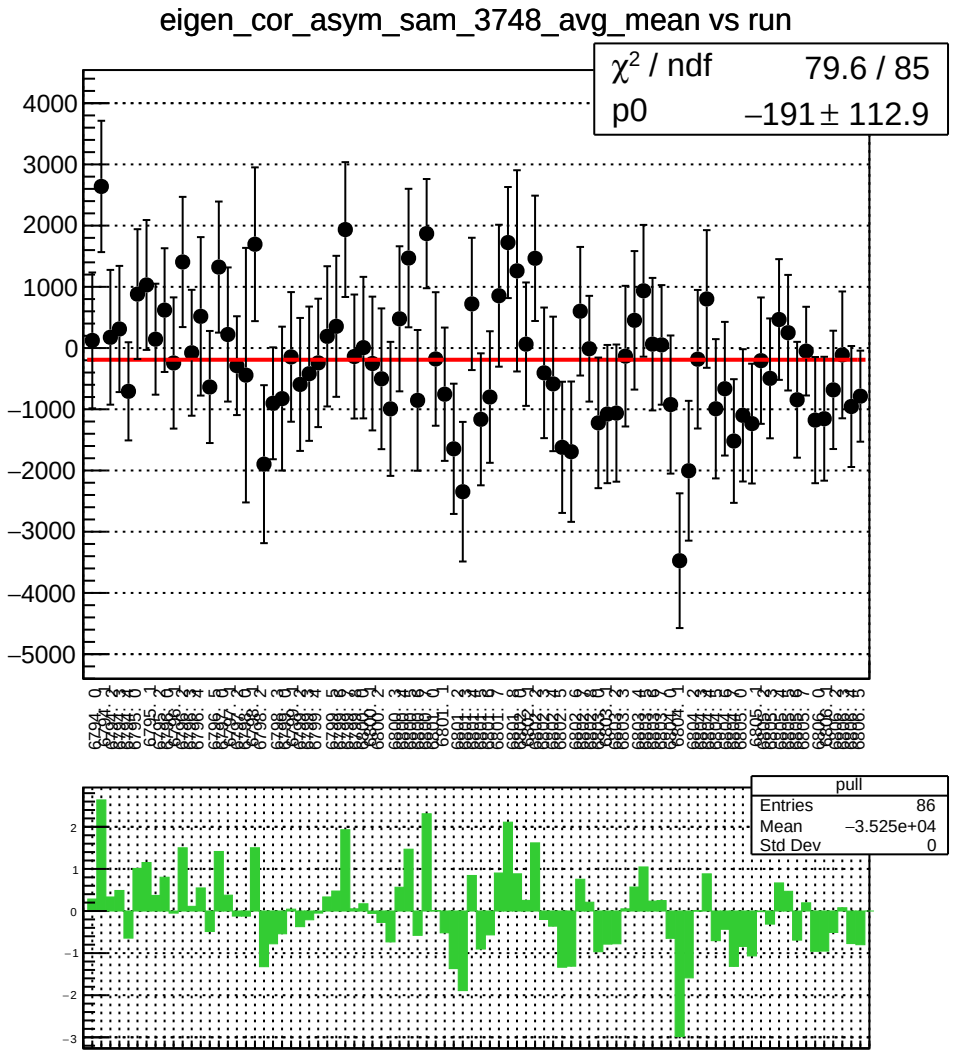

pull1D
Entries 86
Mean 0.0002379
Std Dev 0.9621

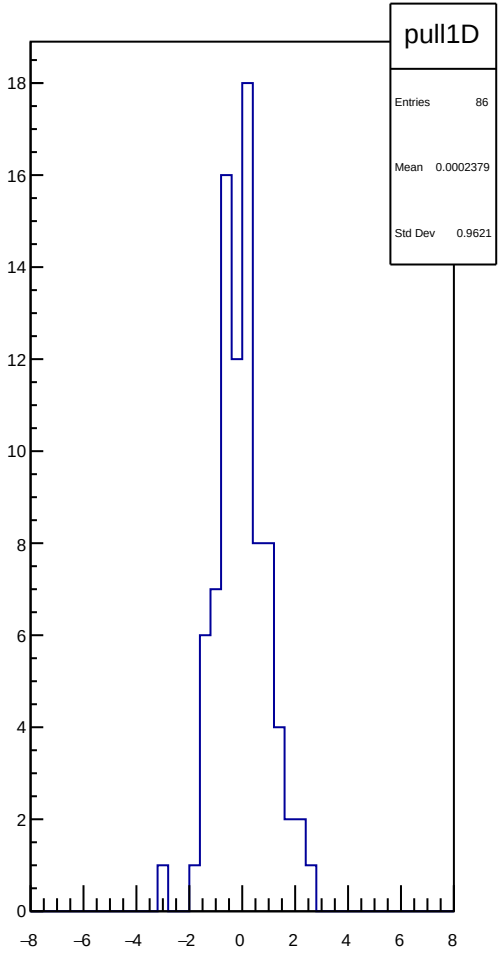

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.268e+04 / 85
p0 103.1 ± 0.07982
200
180
160
140
120
100
80

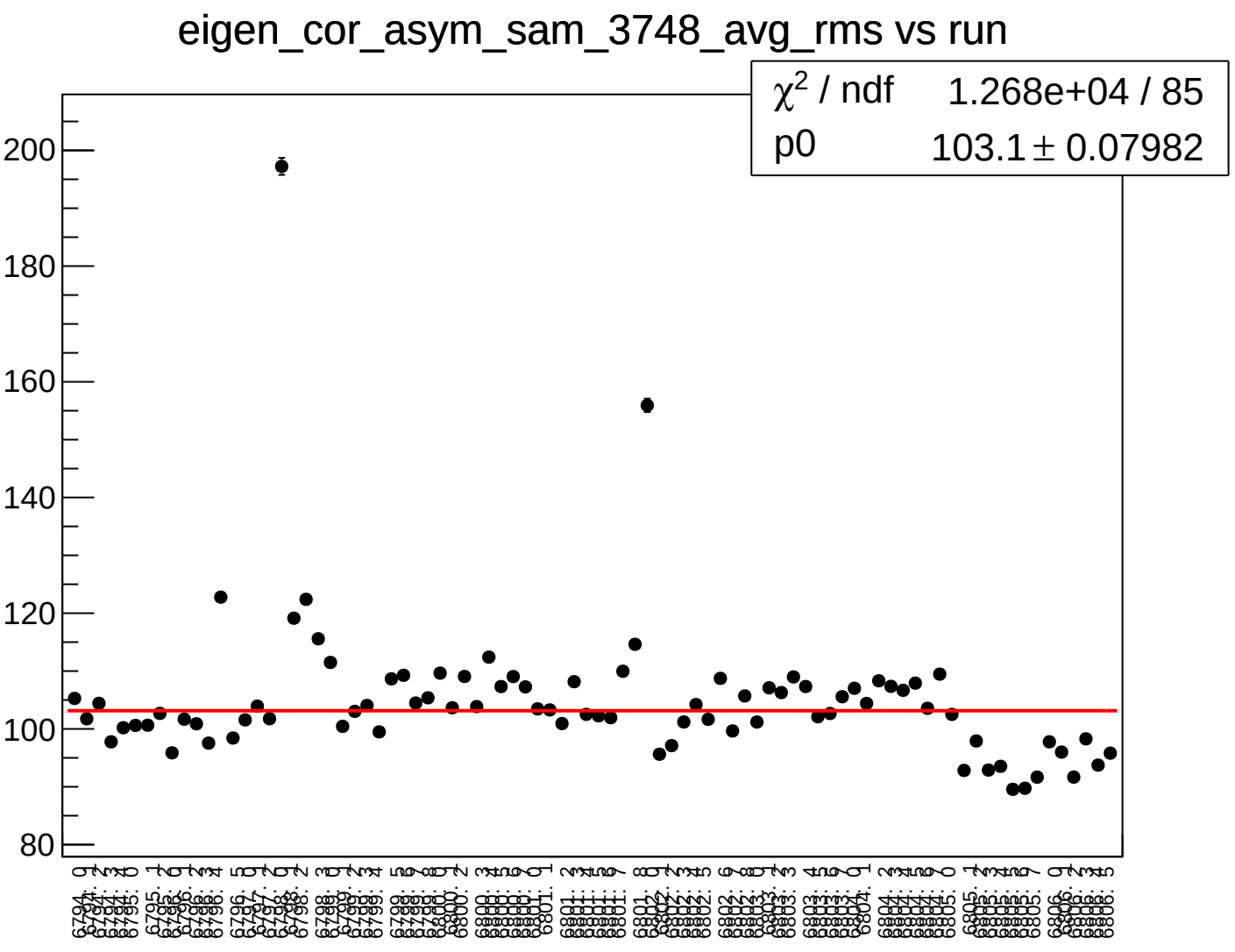

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 87.42 / 85
p0 −916 ± 1020
pull
Entries 86
Mean −51.34
Std Dev 0

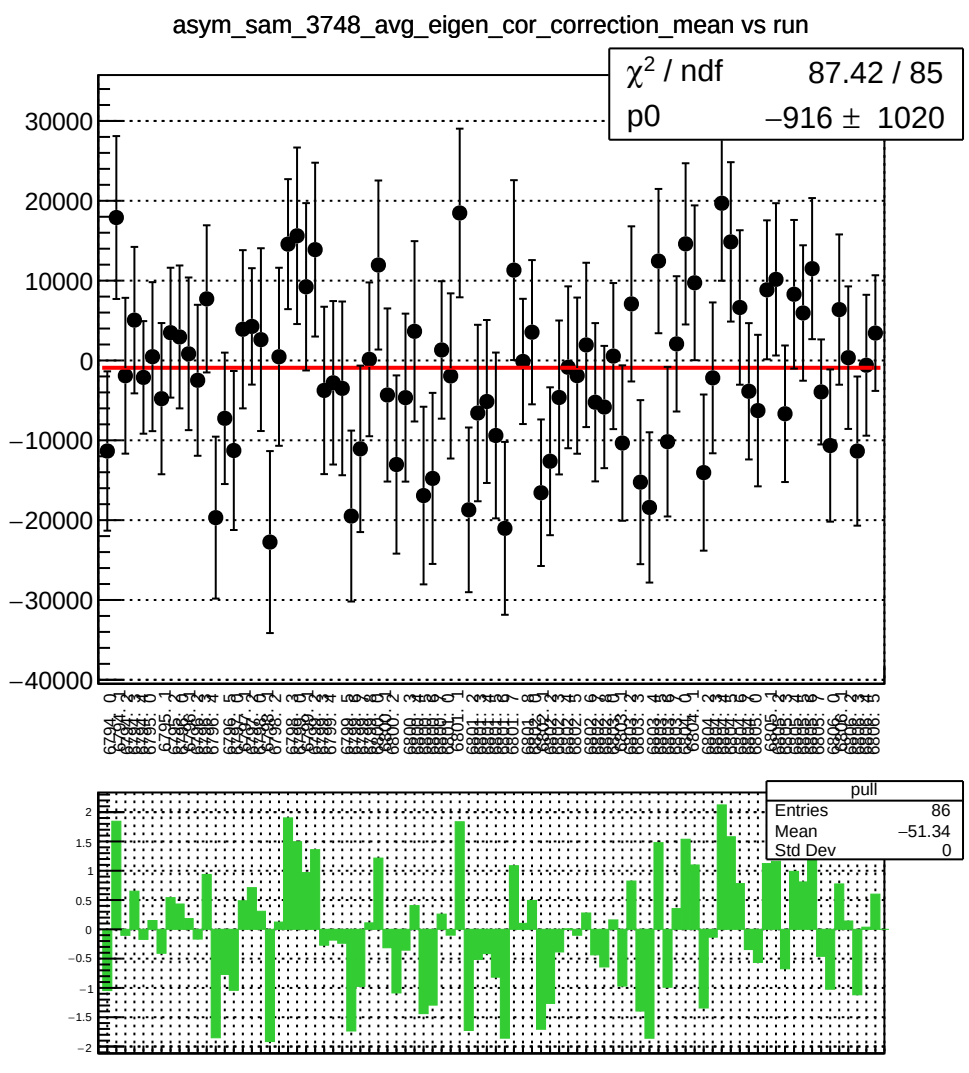

pull1D
Entries 86
Mean −0.0154
Std Dev 1.008

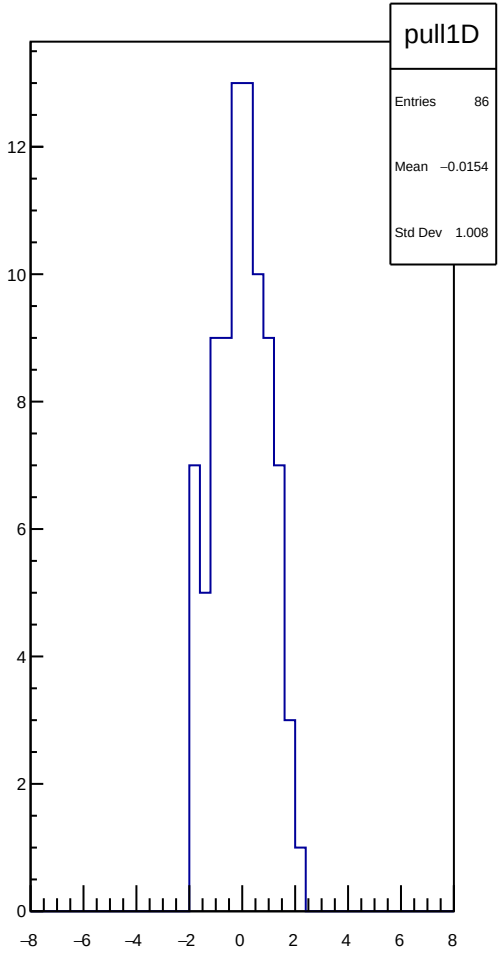

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 8757 / 85
p0 933.4 ± 0.7215
1100
1050
1000
950
900
850
800

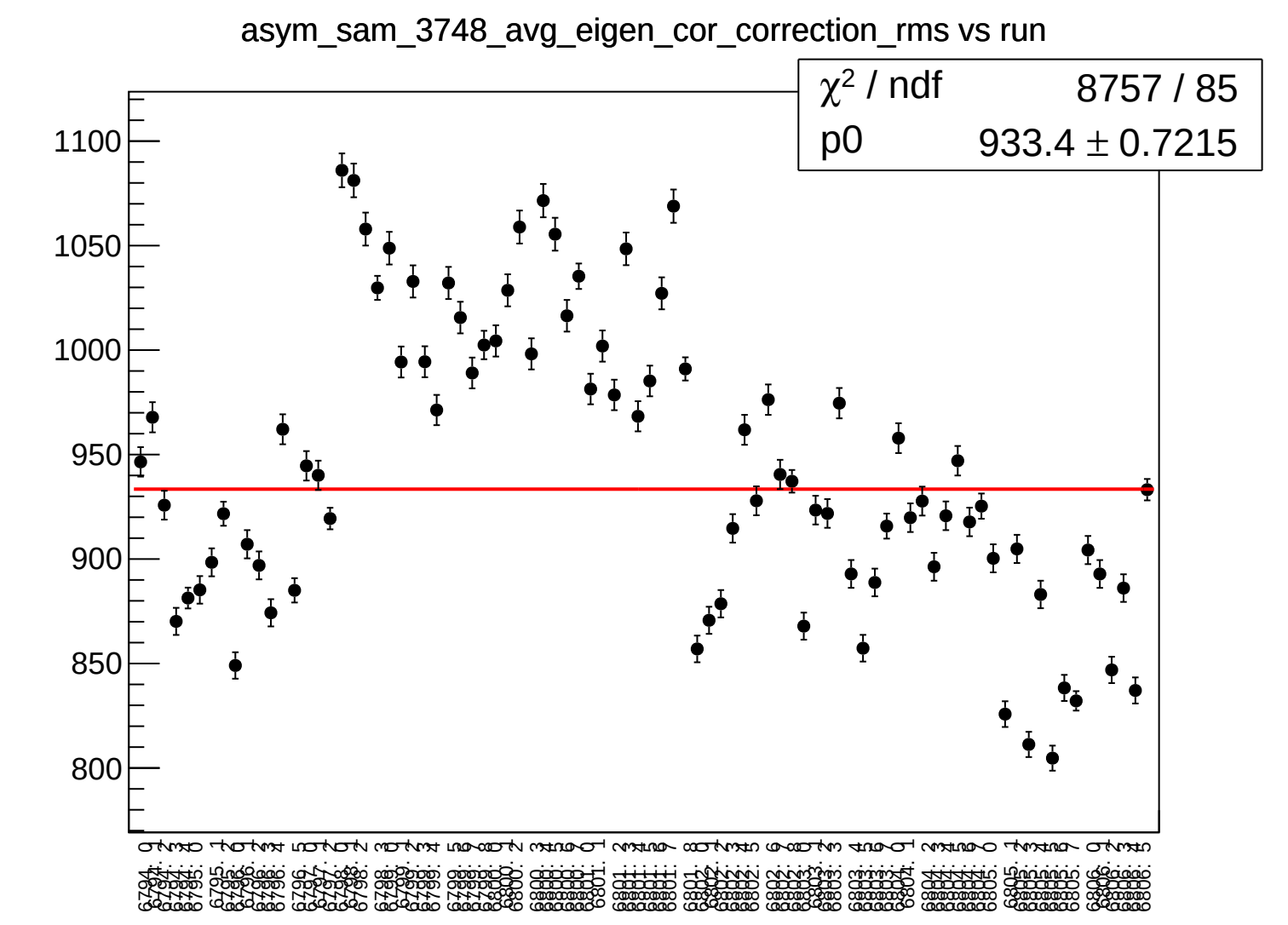

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 79.6 / 85
p0 −191 ± 112.9
pull
Entries 86
Mean −3.525e+04
Std Dev 0

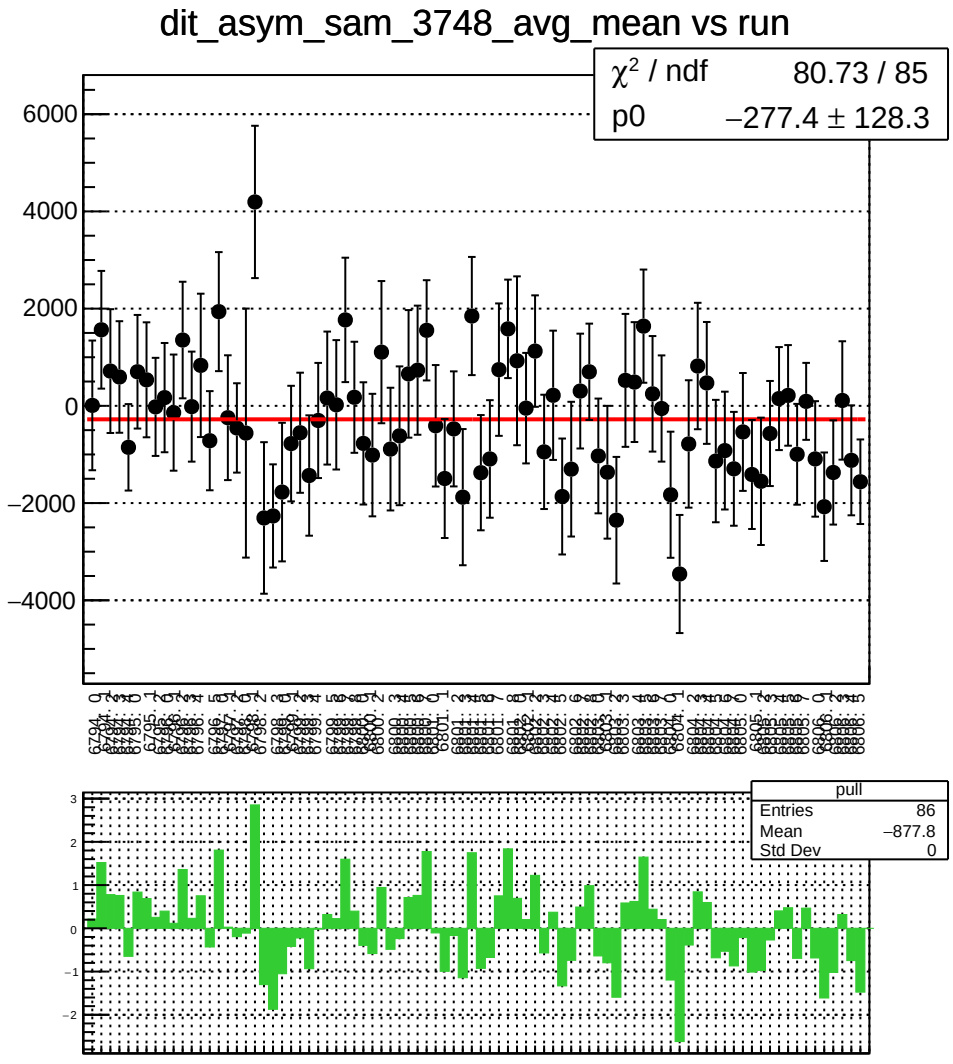

pull1D
Entries 86
Mean 0.0002379
Std Dev 0.9621

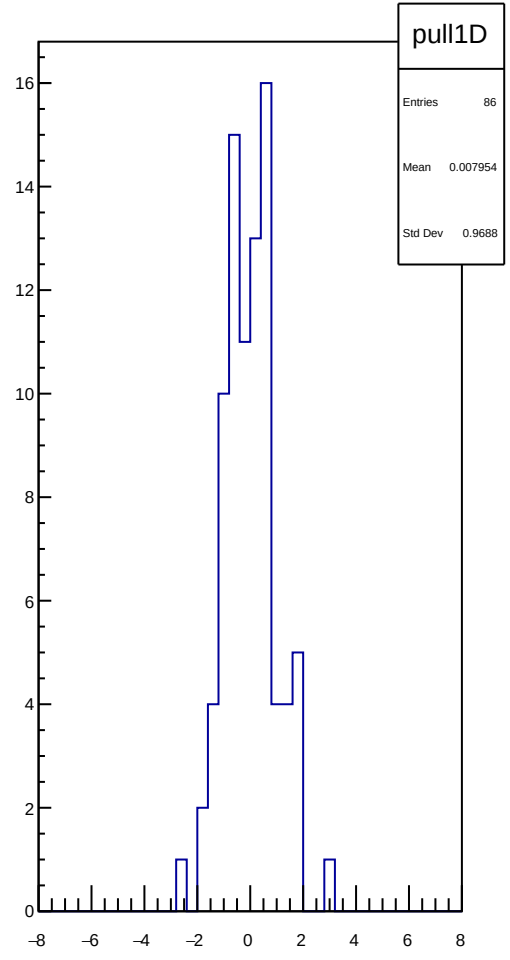

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.268e+04 / 85
p0 103.1 ± 0.07982
200
180
160
140
120
100
80

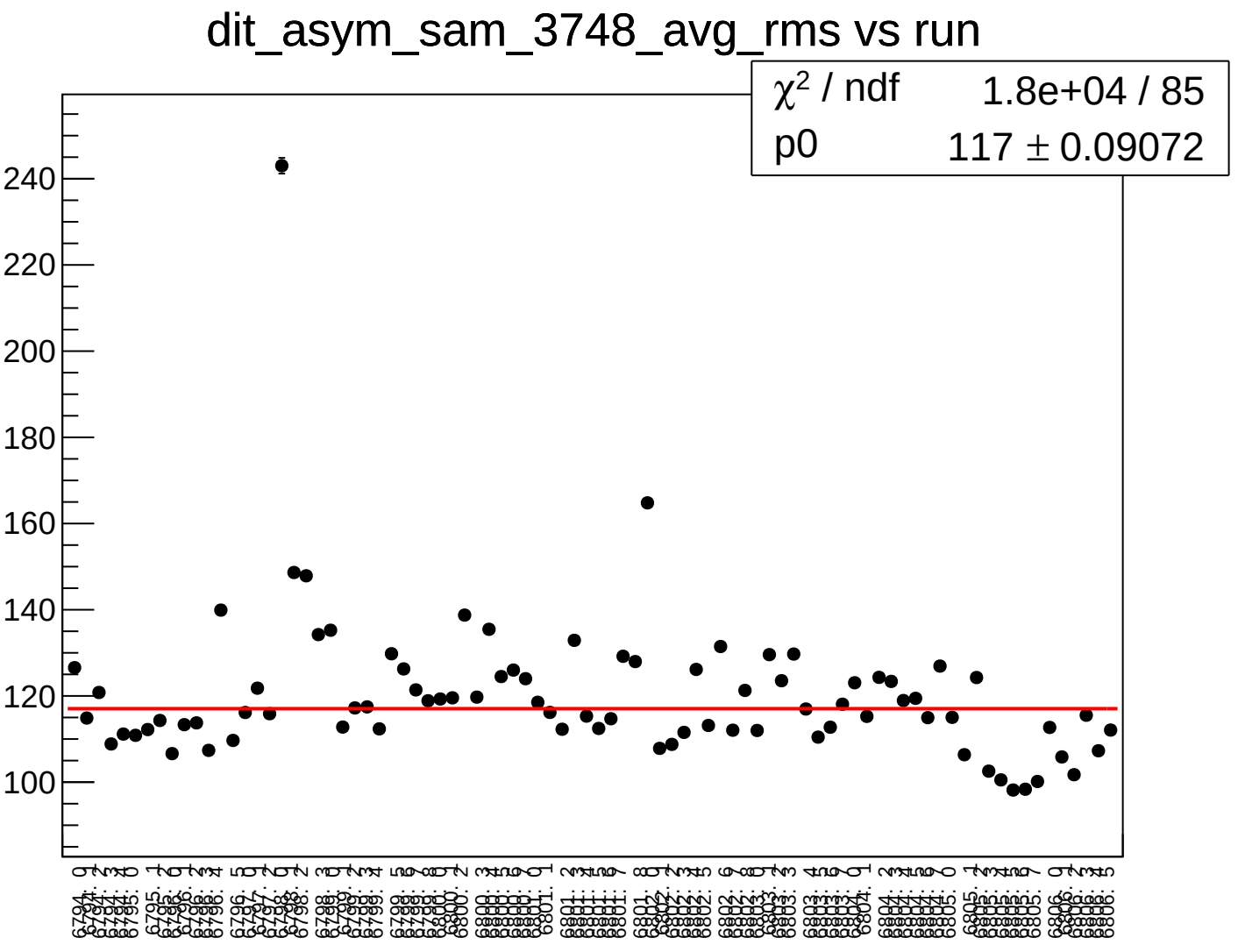

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 87.42 / 85
p0 −916 ± 1020
pull
Entries 86
Mean −51.34
Std Dev 0

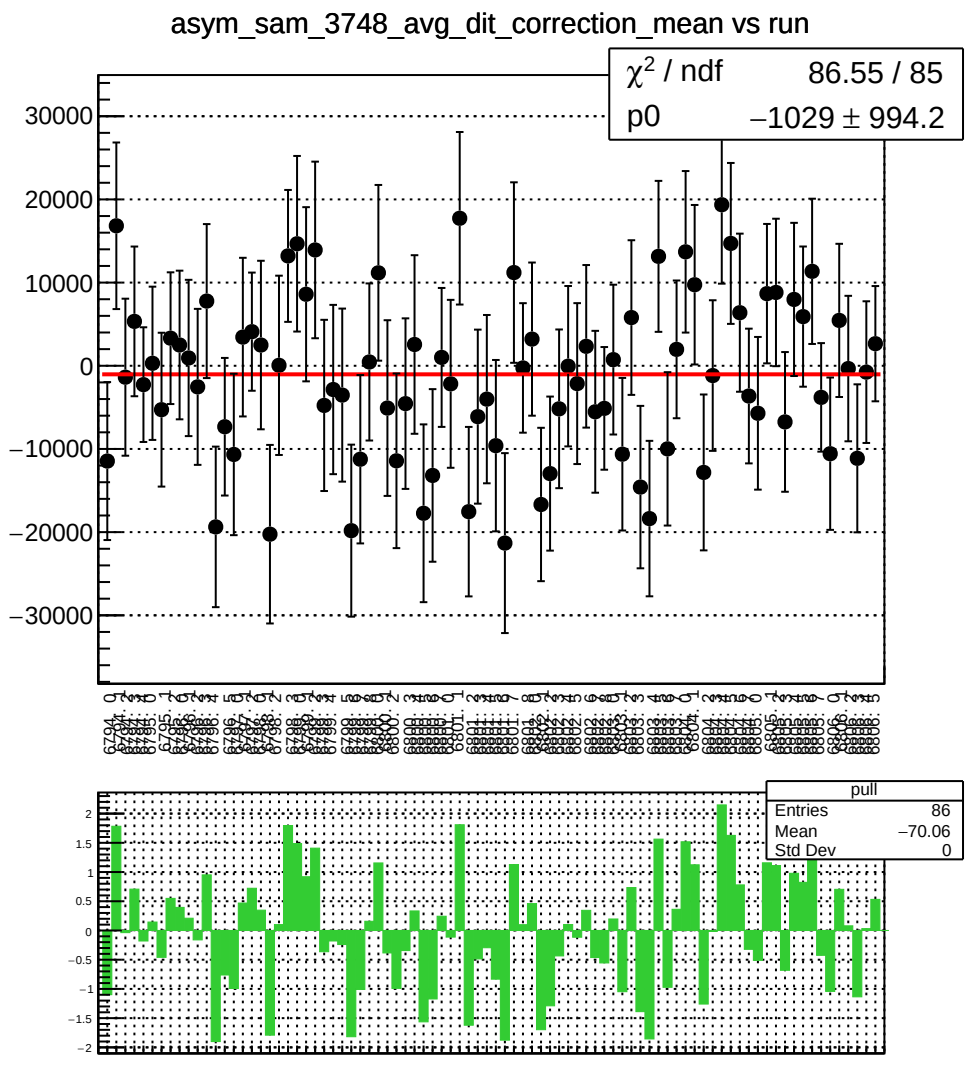

pull1D
Entries 86
Mean −0.0154
Std Dev 1.008

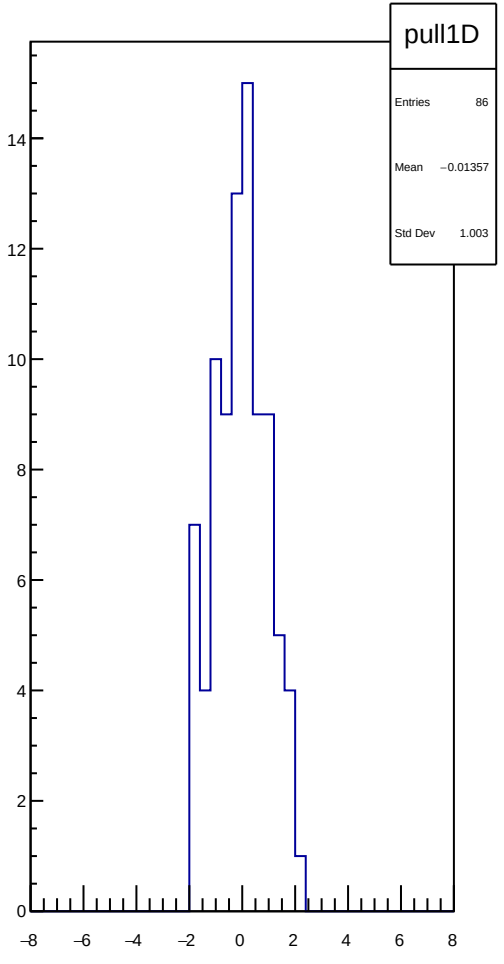

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 8757 / 85
p0 933.4 ± 0.7215
1100
1050
1000
950
900
850
800

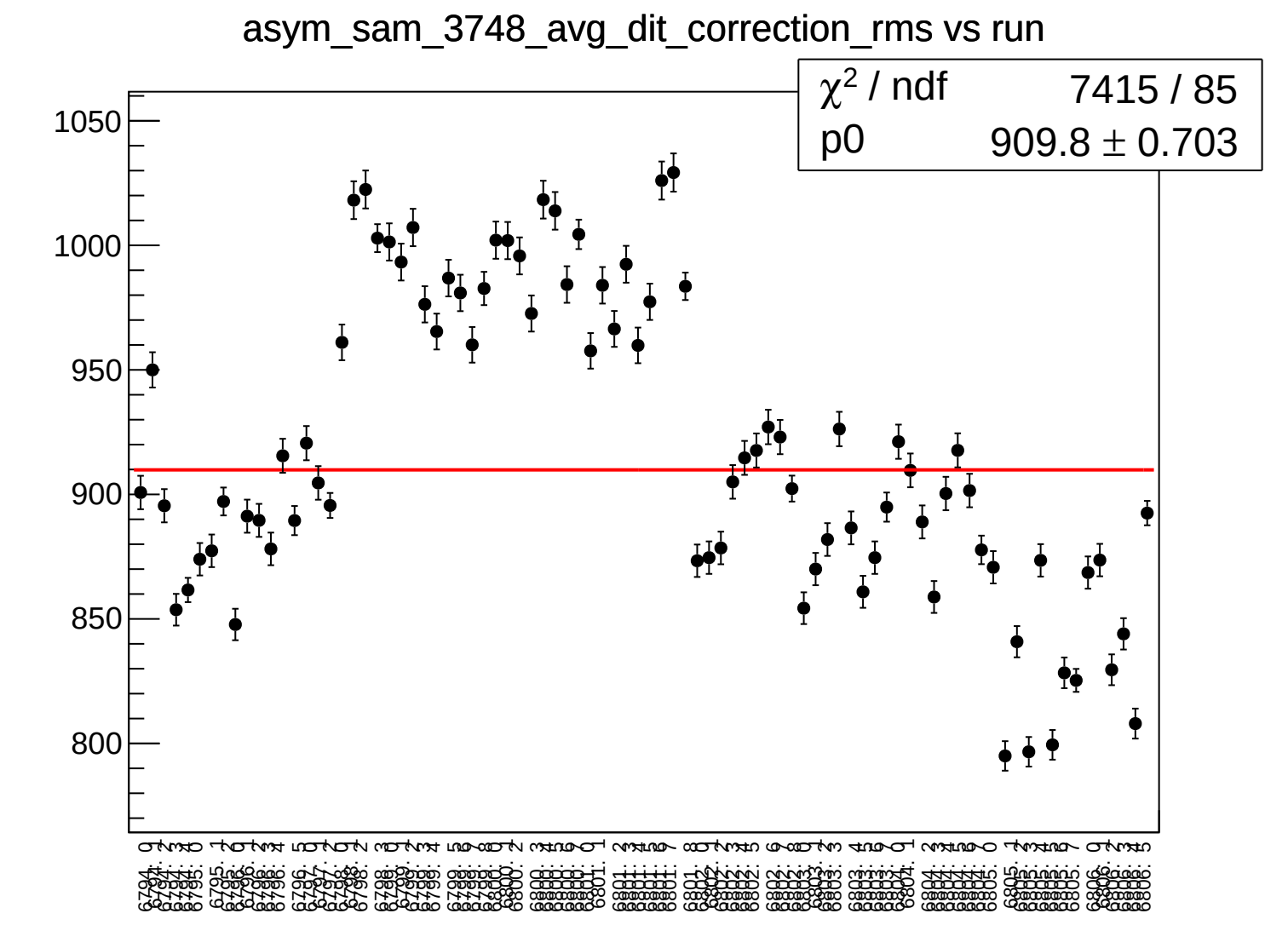

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.73 / 85
p0 −277.4 ± 128.3
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −877.8
Std Dev 0
3
2
1
0
−1
−2

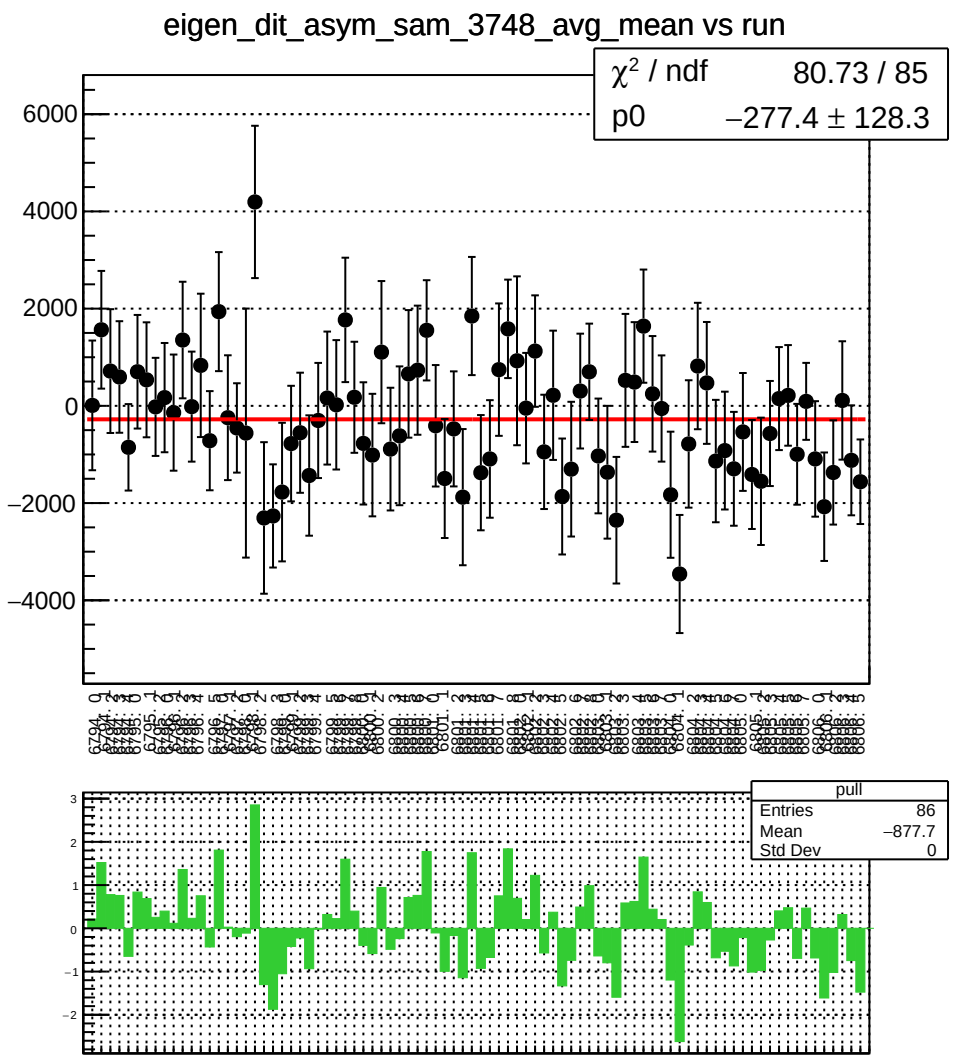

pull1D
Entries 86
Mean 0.007954
Std Dev 0.9688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

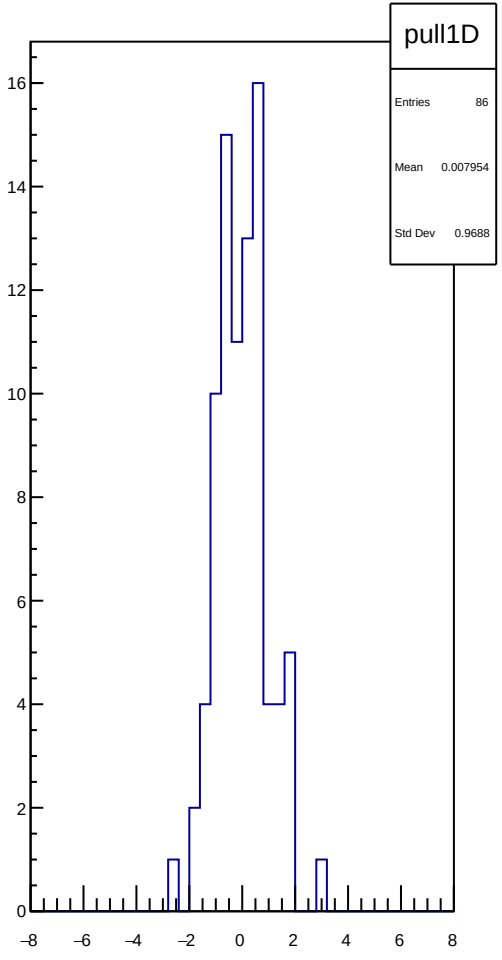

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.8e+04 / 85
p0 117 ± 0.09072
240
220
200
180
160
140
120
100

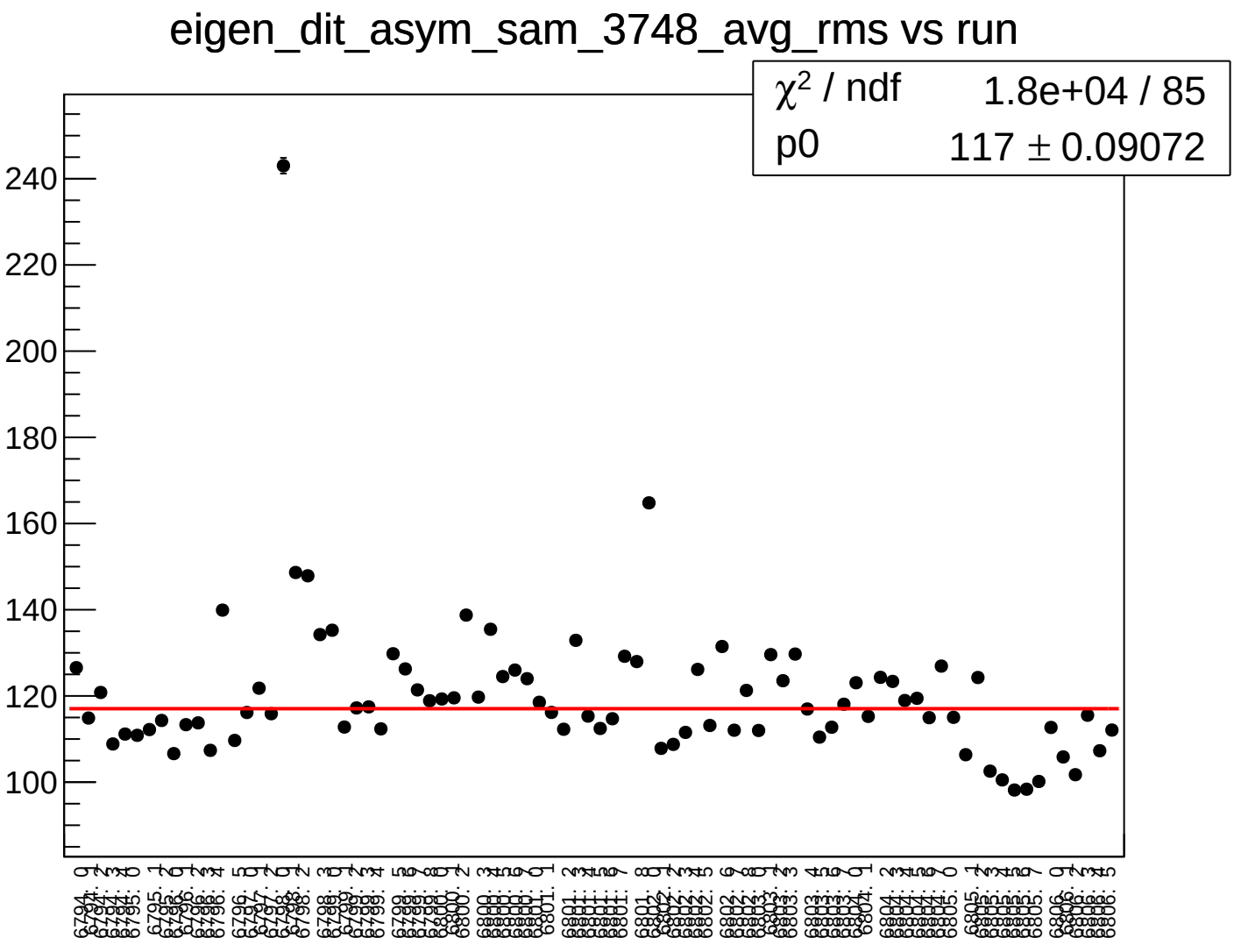

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 86.55 / 85
p0 −1029 ± 994.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −70.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

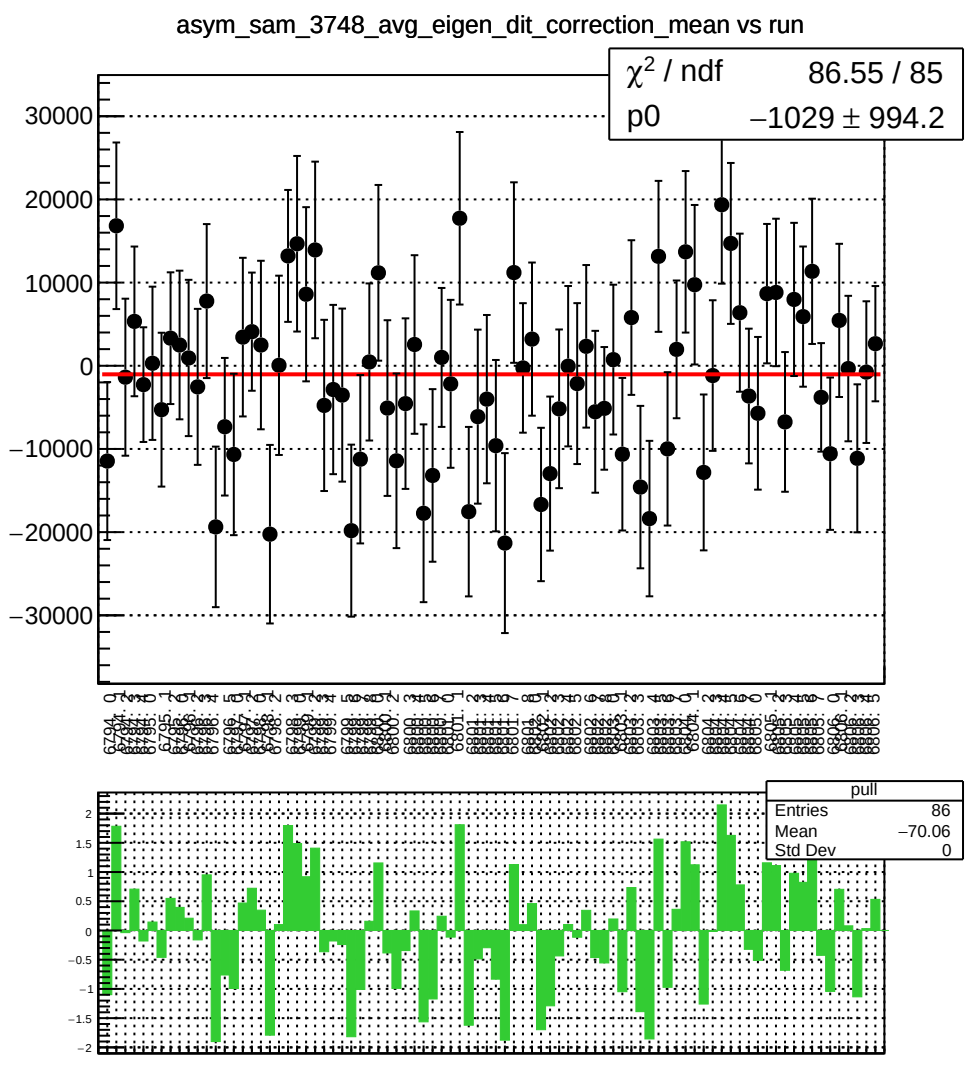

pull1D
Entries 86
Mean −0.01357
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

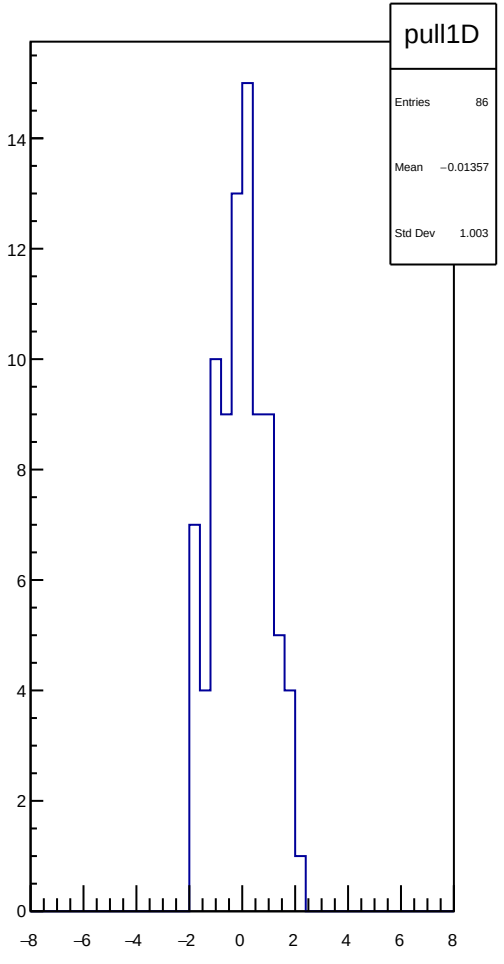

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 7415 / 85
p0 909.8 ± 0.703
1050
1000
950
900
850
800

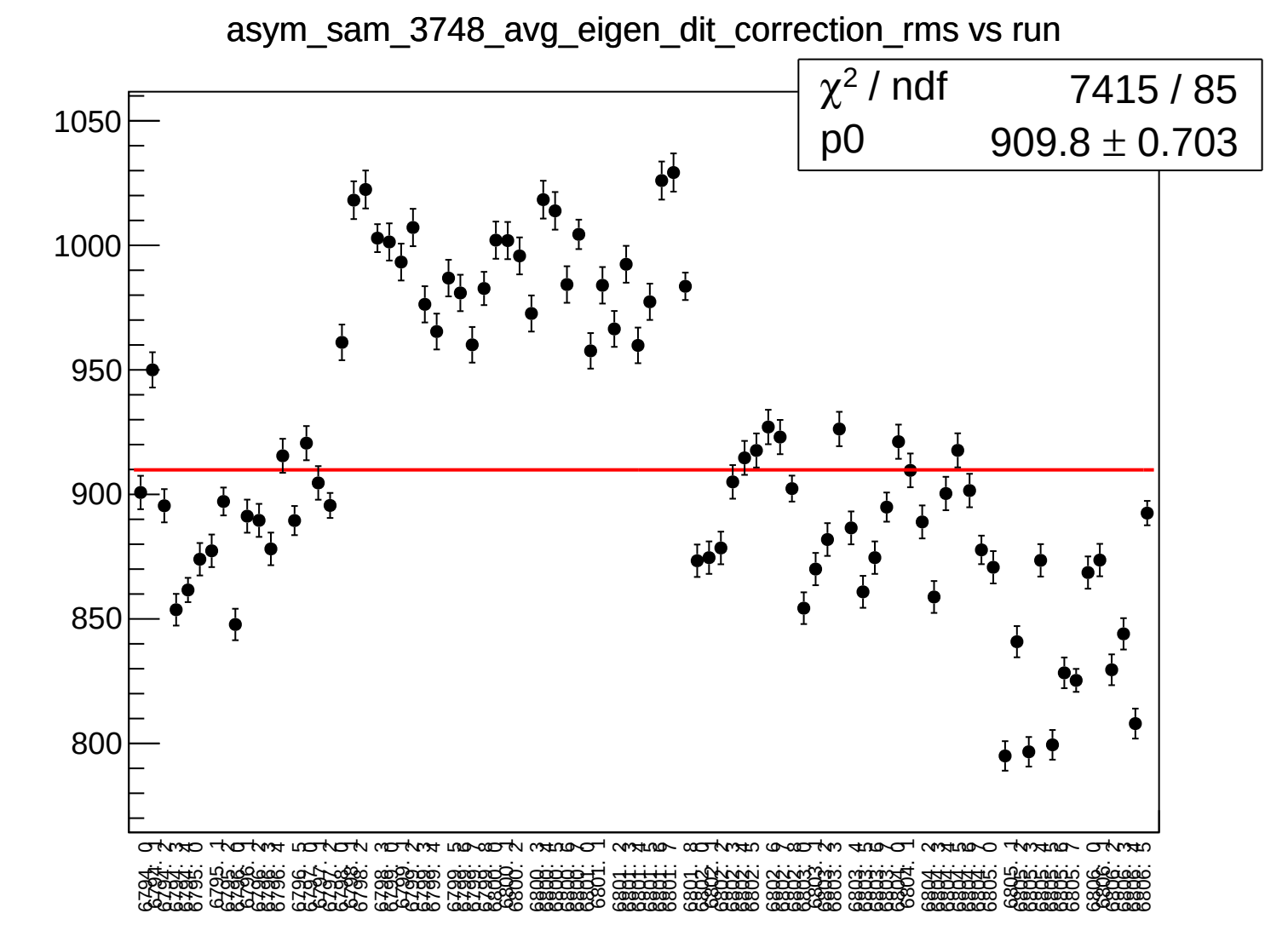

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 80.73 / 85
p0 −277.4 ± 128.3
6000
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −877.7
Std Dev 0
3
2
1
0
−1
−2

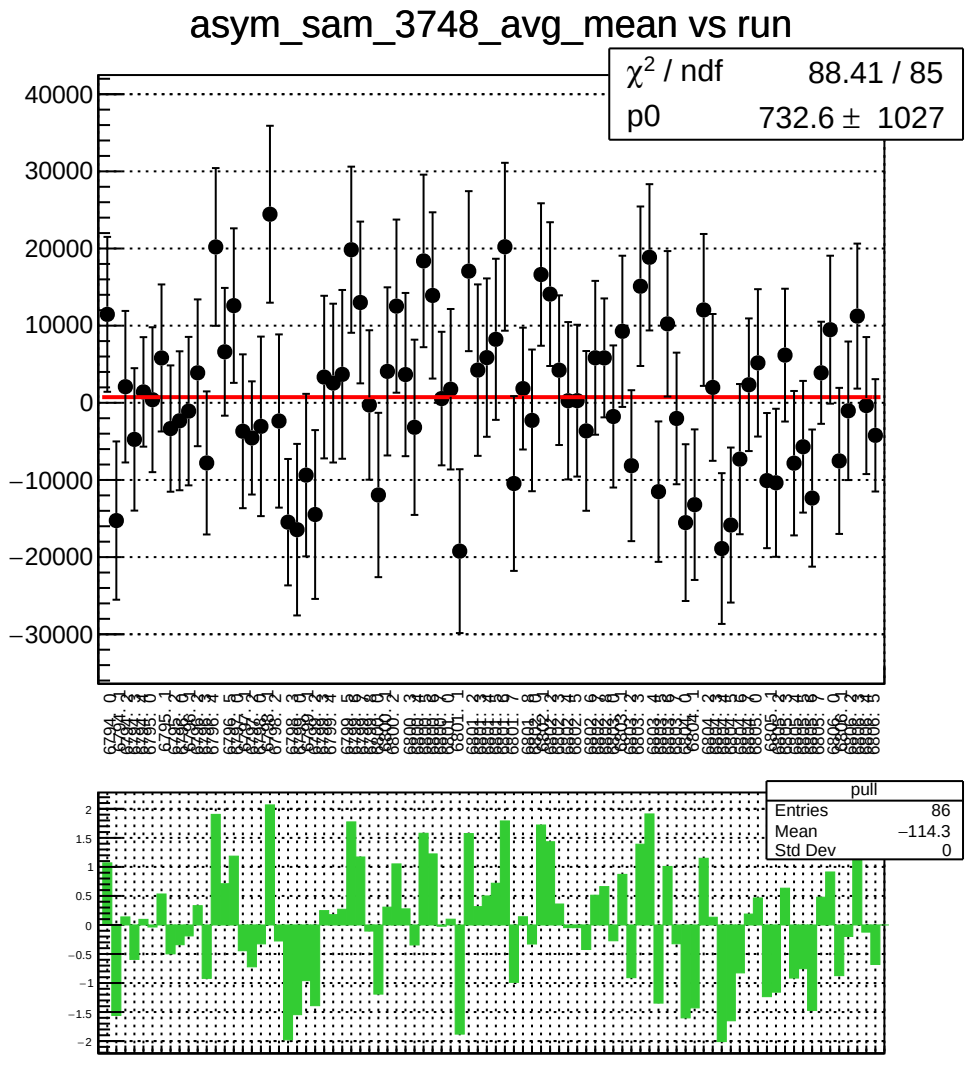

pull1D
Entries 86
Mean 0.007954
Std Dev 0.9688
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

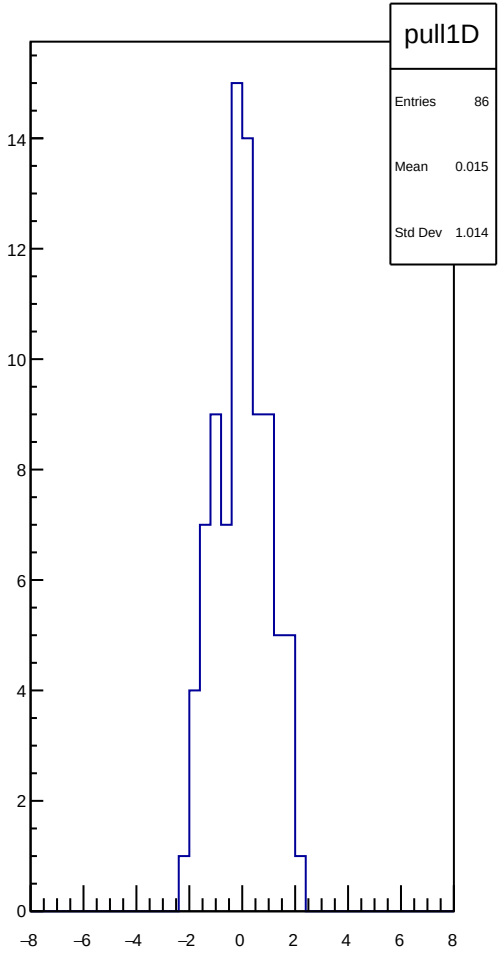

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 1.8e+04 / 85
p0 117 ± 0.09072
240
220
200
180
160
140
120
100

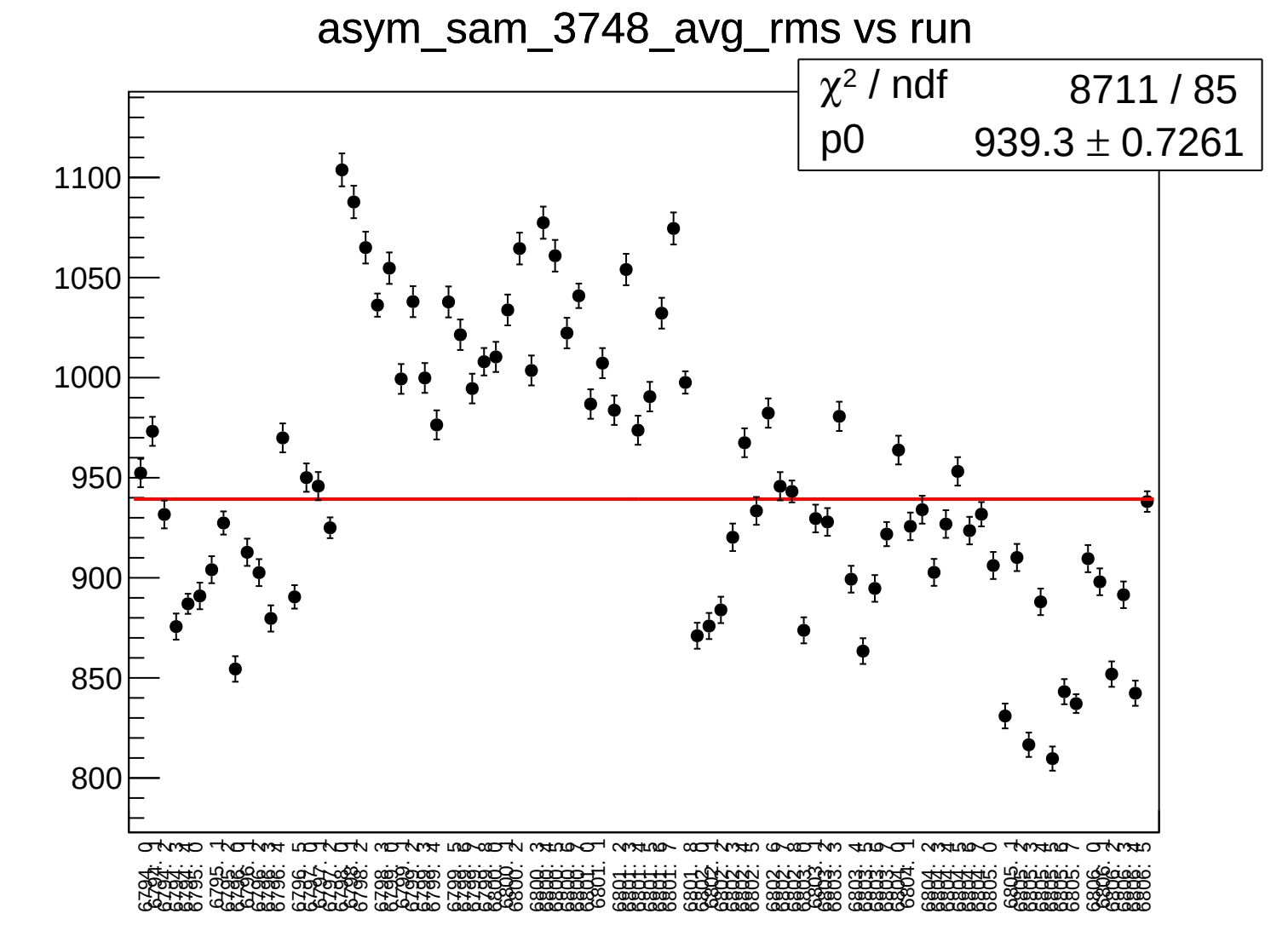

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 86.55 / 85
p0 −1029 ± 994.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −70.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

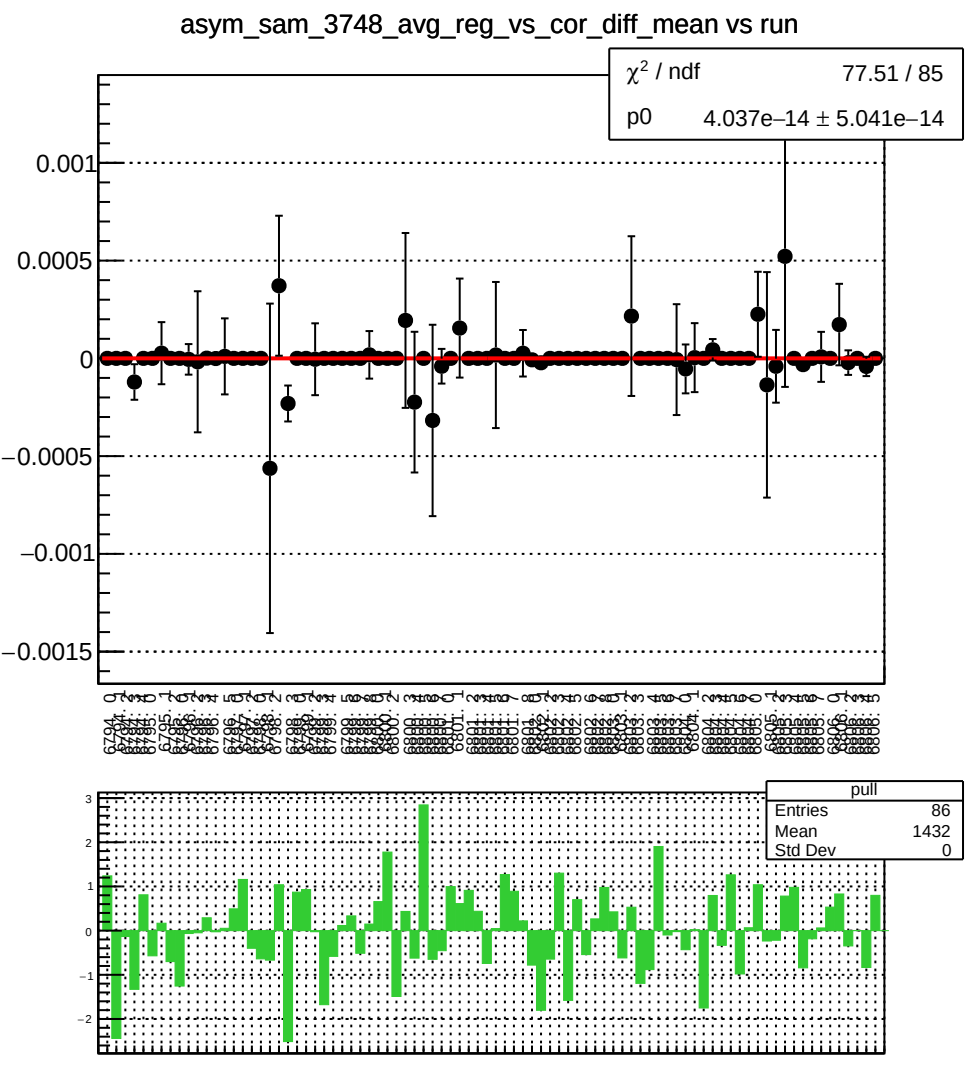

pull1D
Entries 86
Mean −0.01357
Std Dev 1.003
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

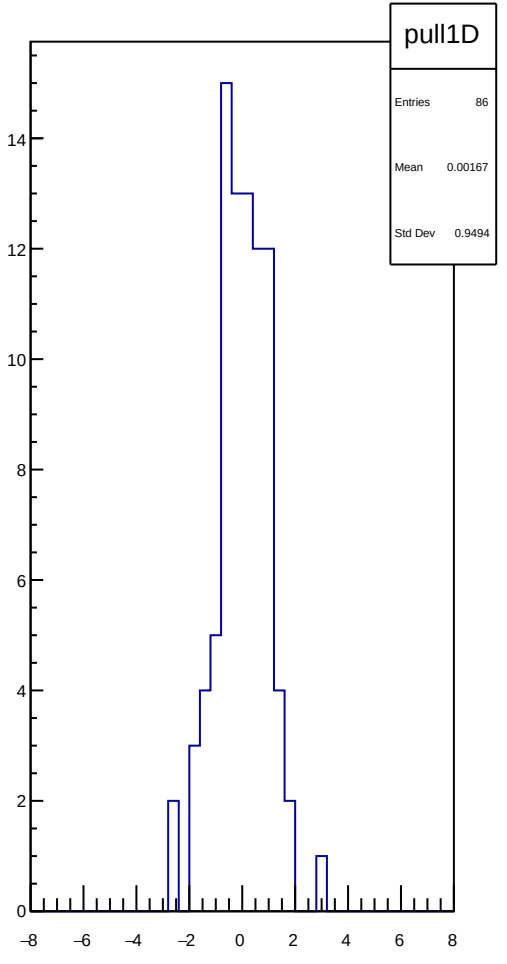

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 7415 / 85
p0 909.8 ± 0.703
1050
1000
950
900
850
800

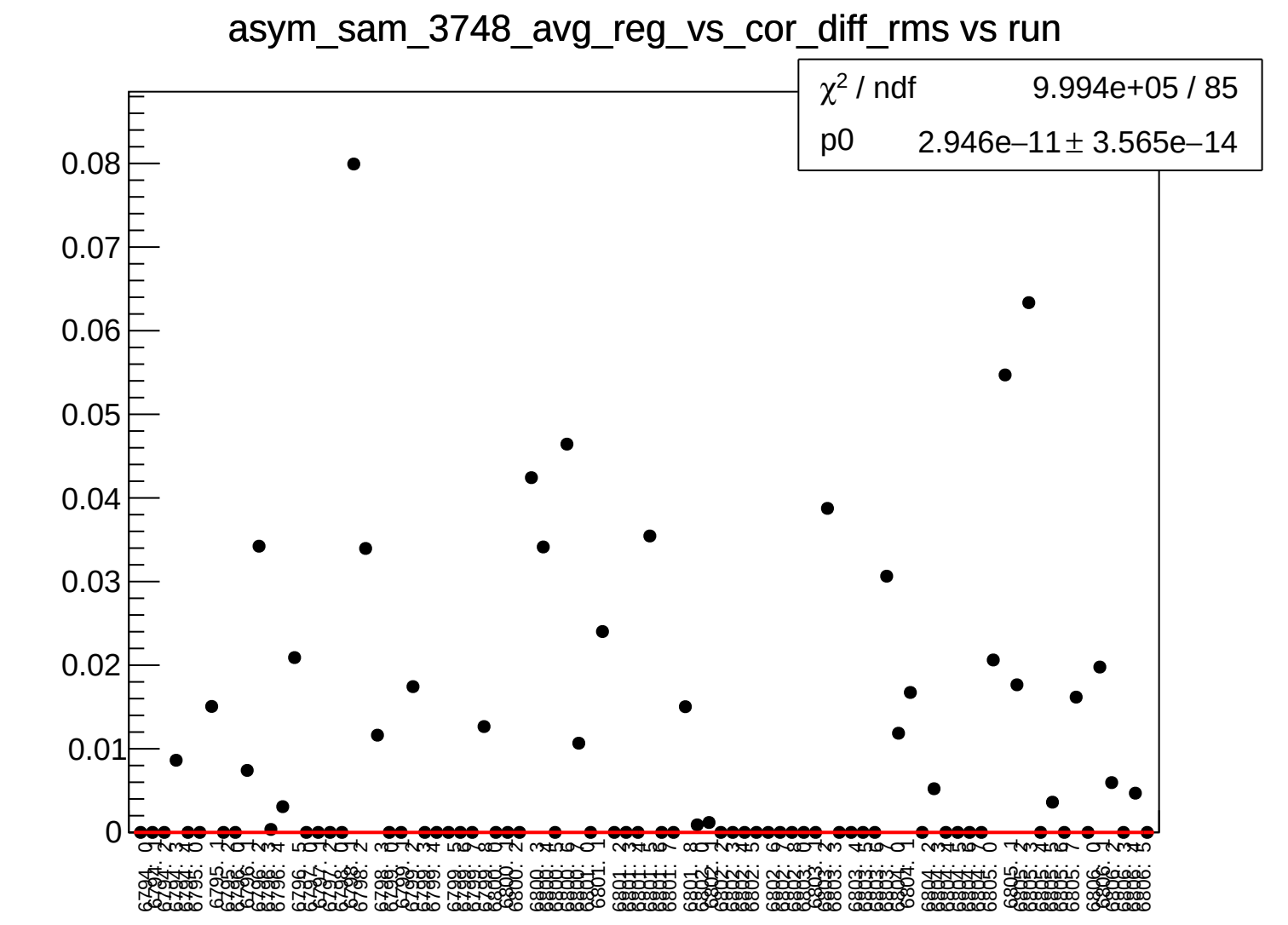

asym_sam_3748_avg_mean vs run
χ² / ndf 88.41 / 85
p0 732.6 ± 1027
pull
Entries 86
Mean −114.3
Std Dev 0

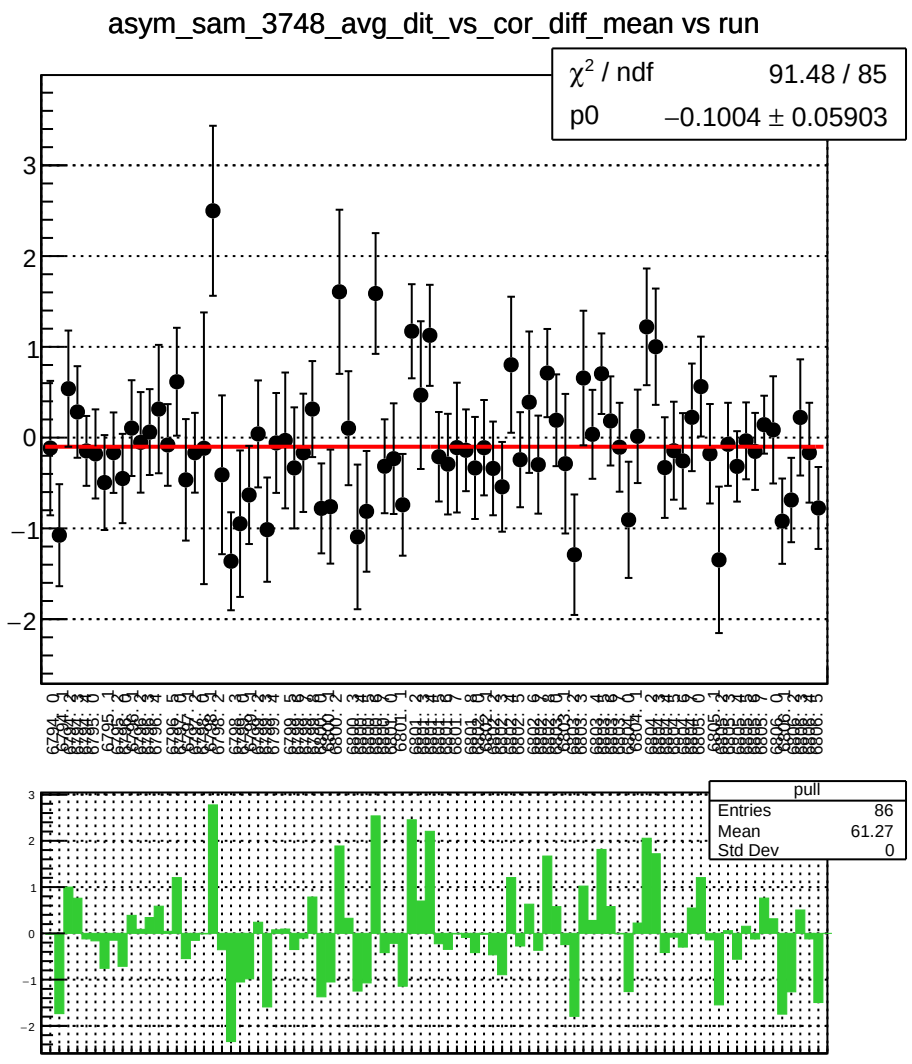

pull1D
Entries 86
Mean 0.015
Std Dev 1.014

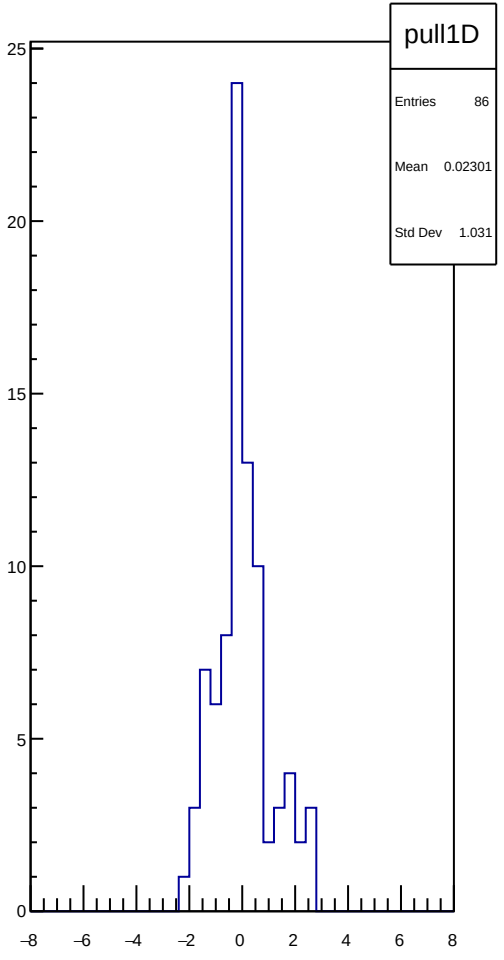

asym_sam_3748_avg_rms vs run
χ² / ndf 8711 / 85
p0 939.3 ± 0.7261
1100
1050
1000
950
900
850
800

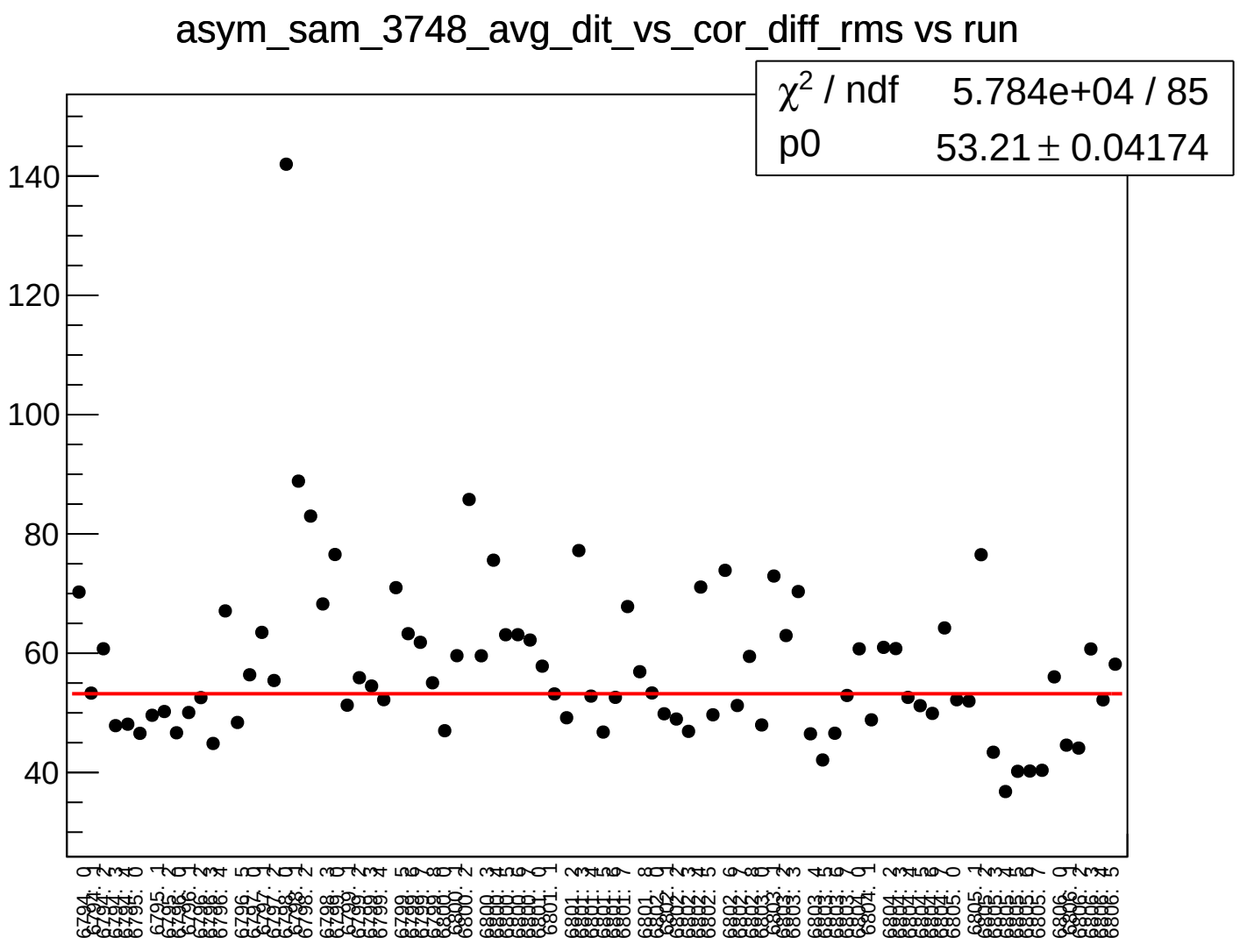

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.51 / 85
p0 4.037e−14 ± 5.041e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 86
Mean 1432
Std Dev 0

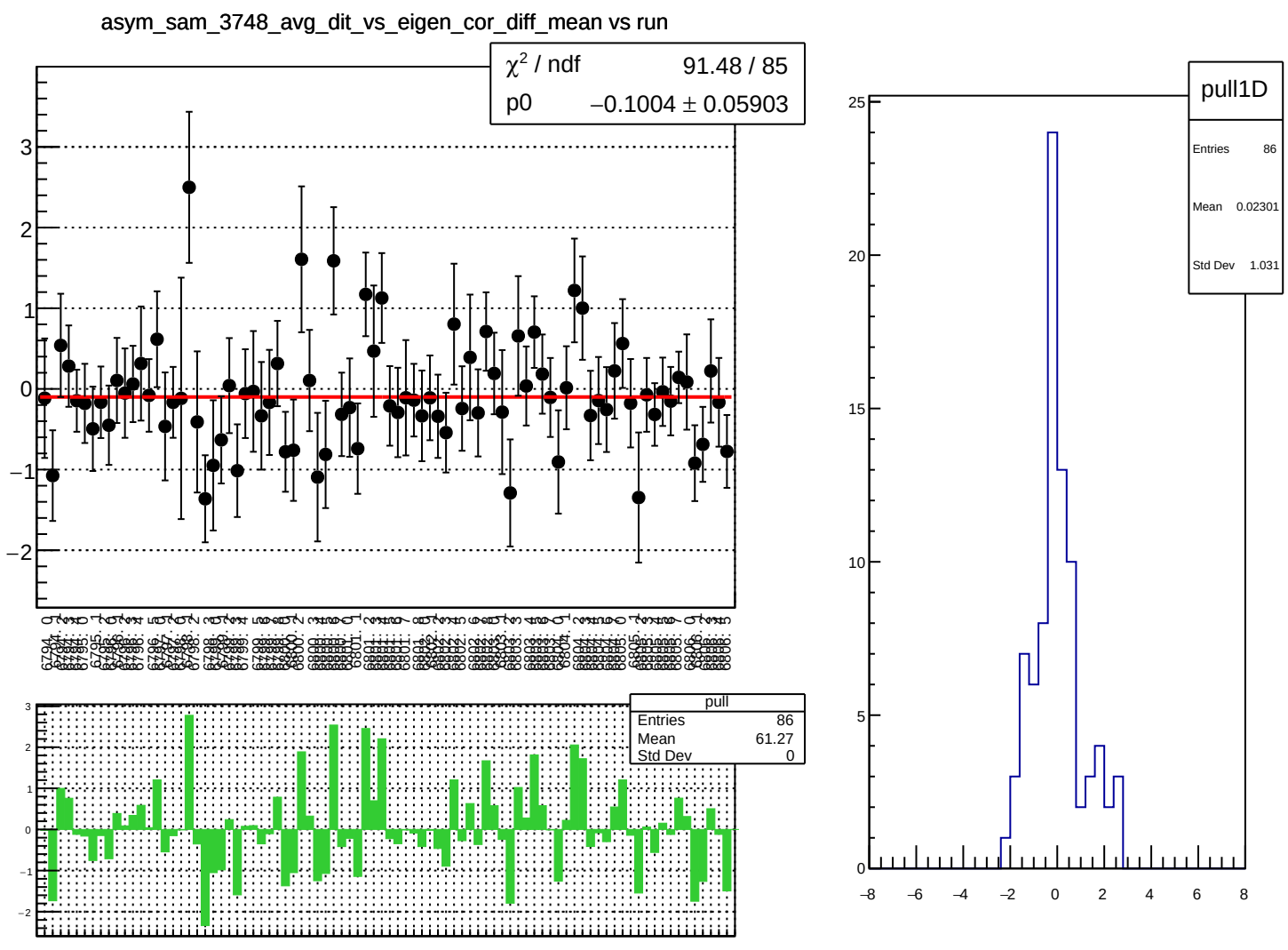

pull1D
Entries 86
Mean 0.00167
Std Dev 0.9494

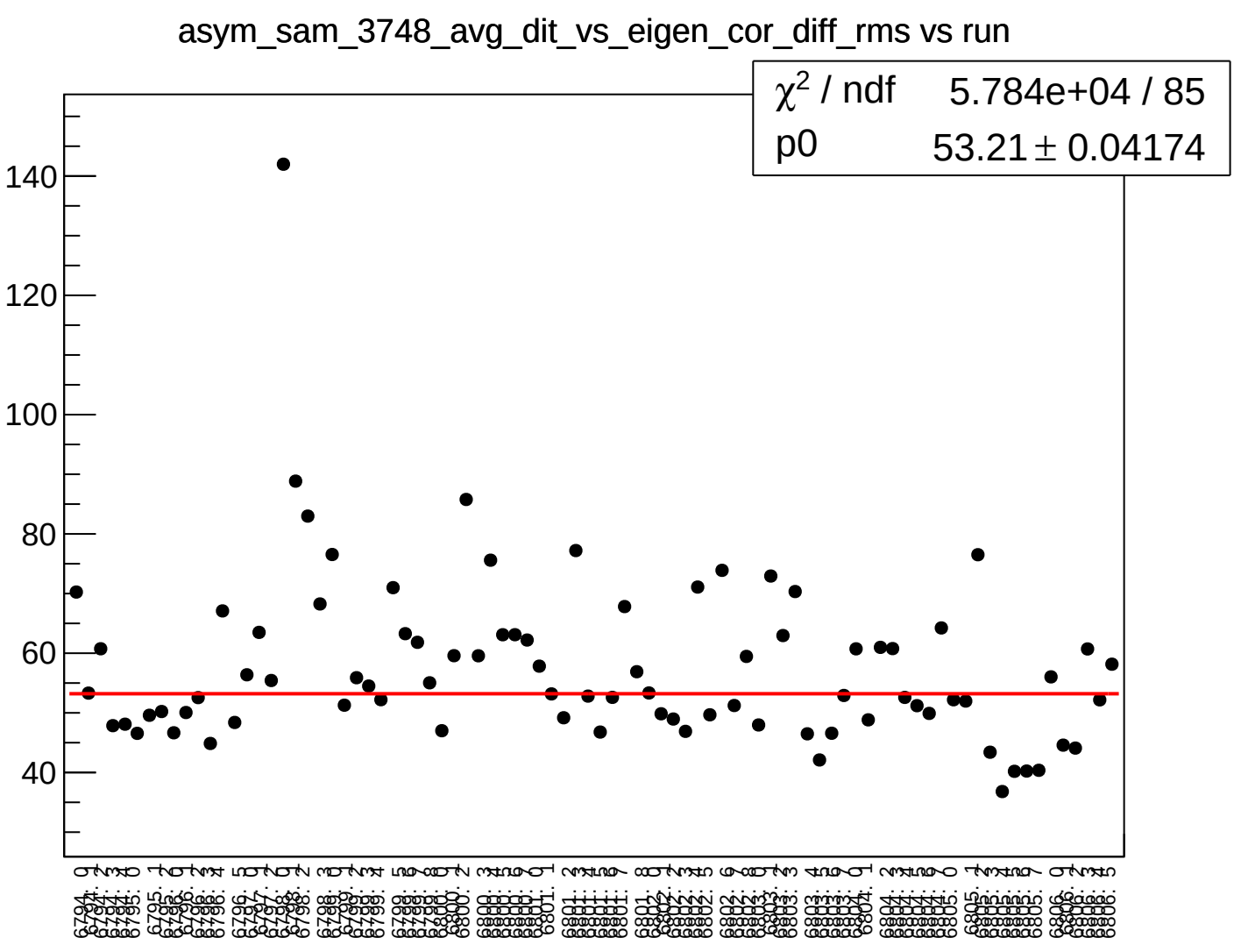

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.994e+05 / 85
p0 2.946e−11 ± 3.565e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

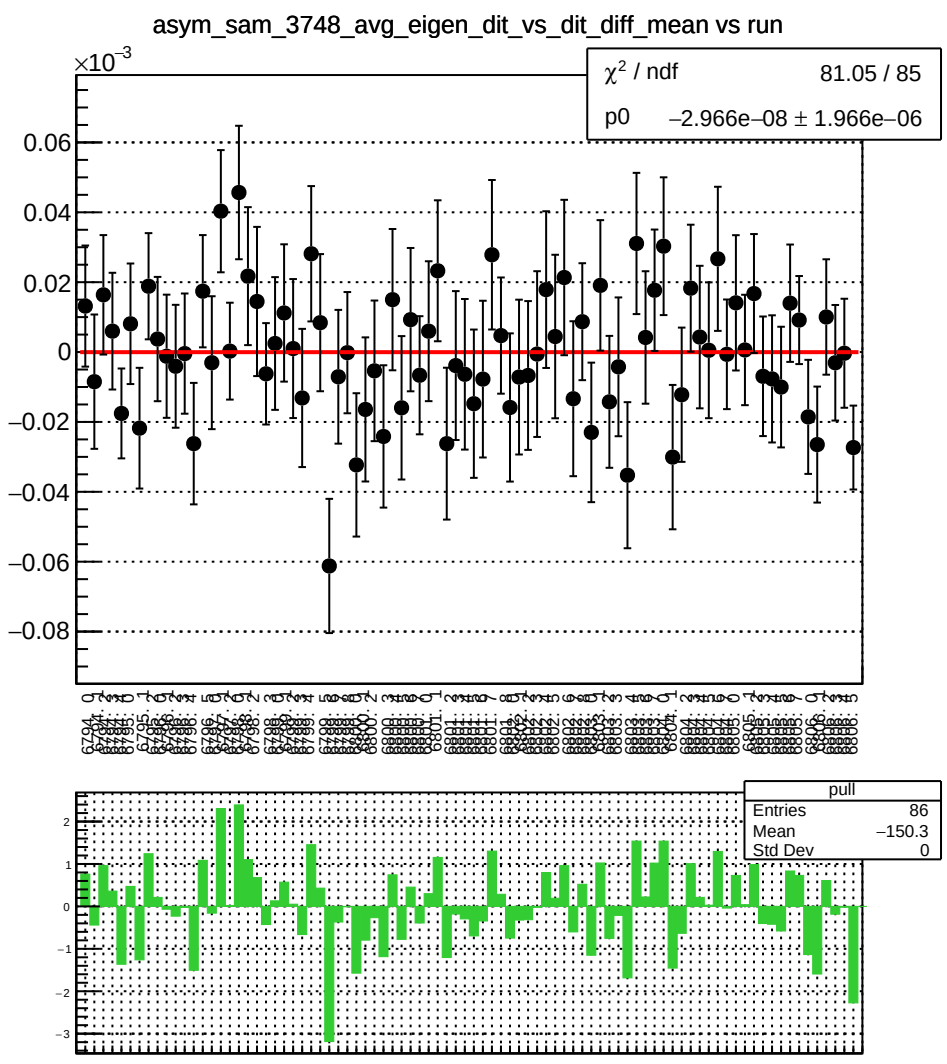

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.1004 ± 0.05903
pull
Entries 86
Mean 61.27
Std Dev 0

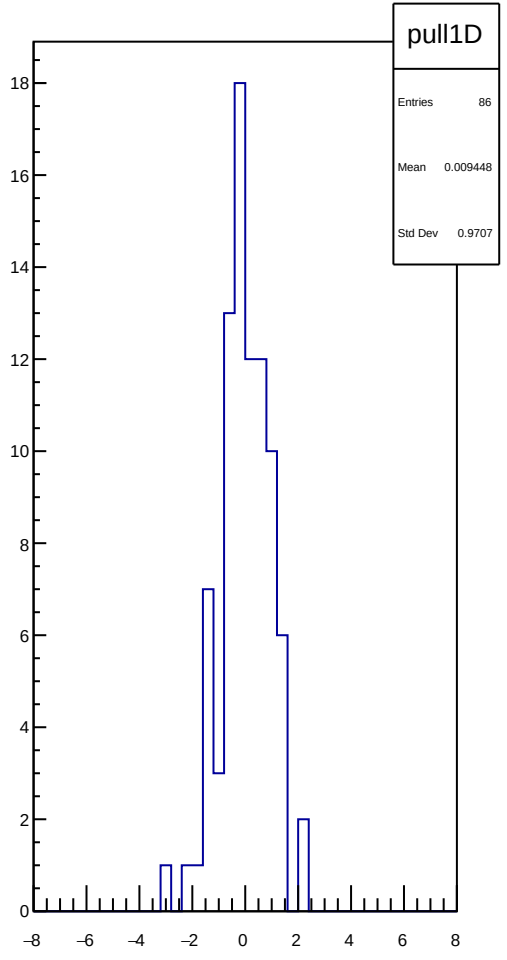

pull1D
Entries 86
Mean 0.02301
Std Dev 1.031

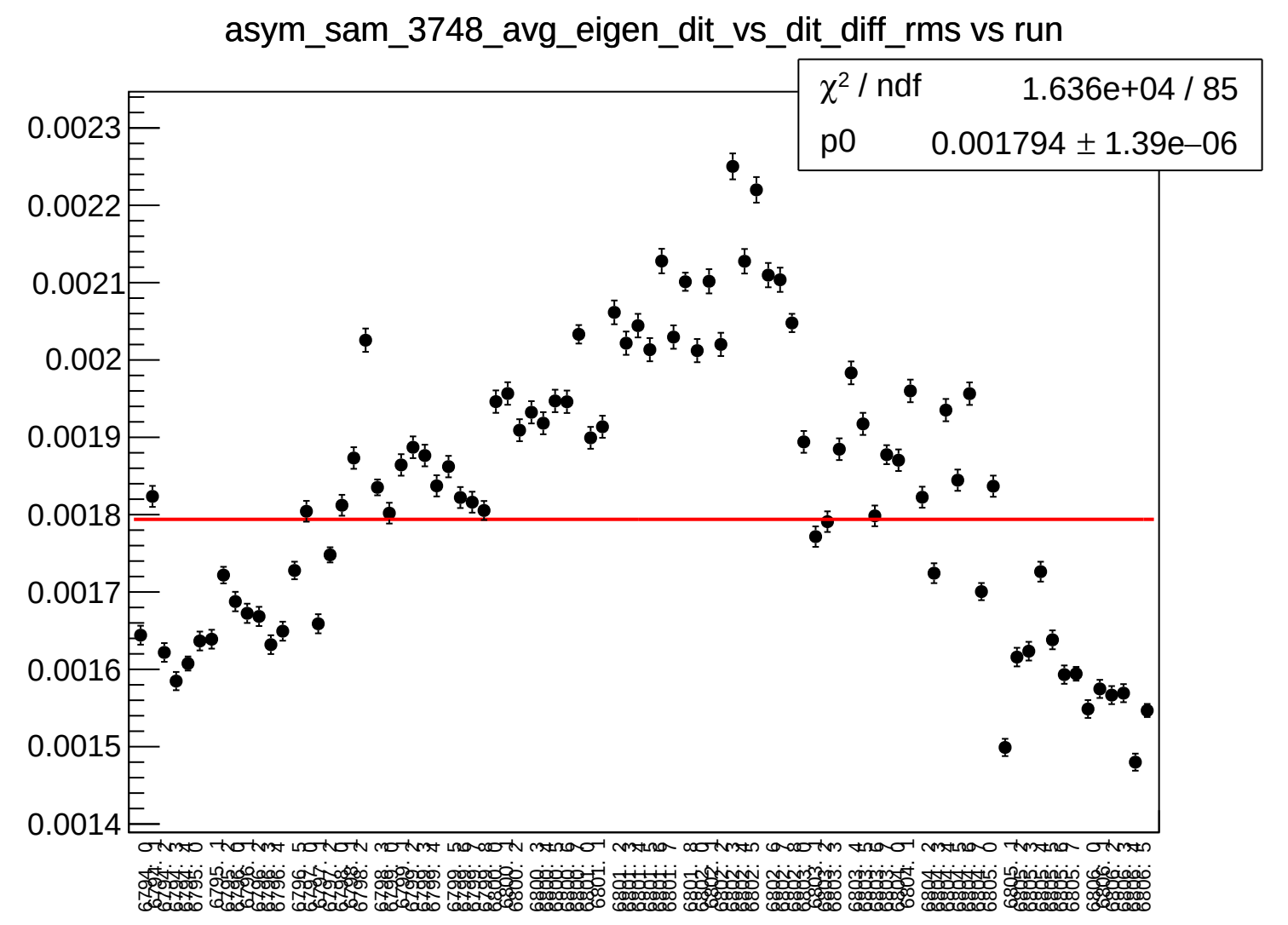

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.784e+04 / 85
p0 53.21 ± 0.04174
140
120
100
80
60
40

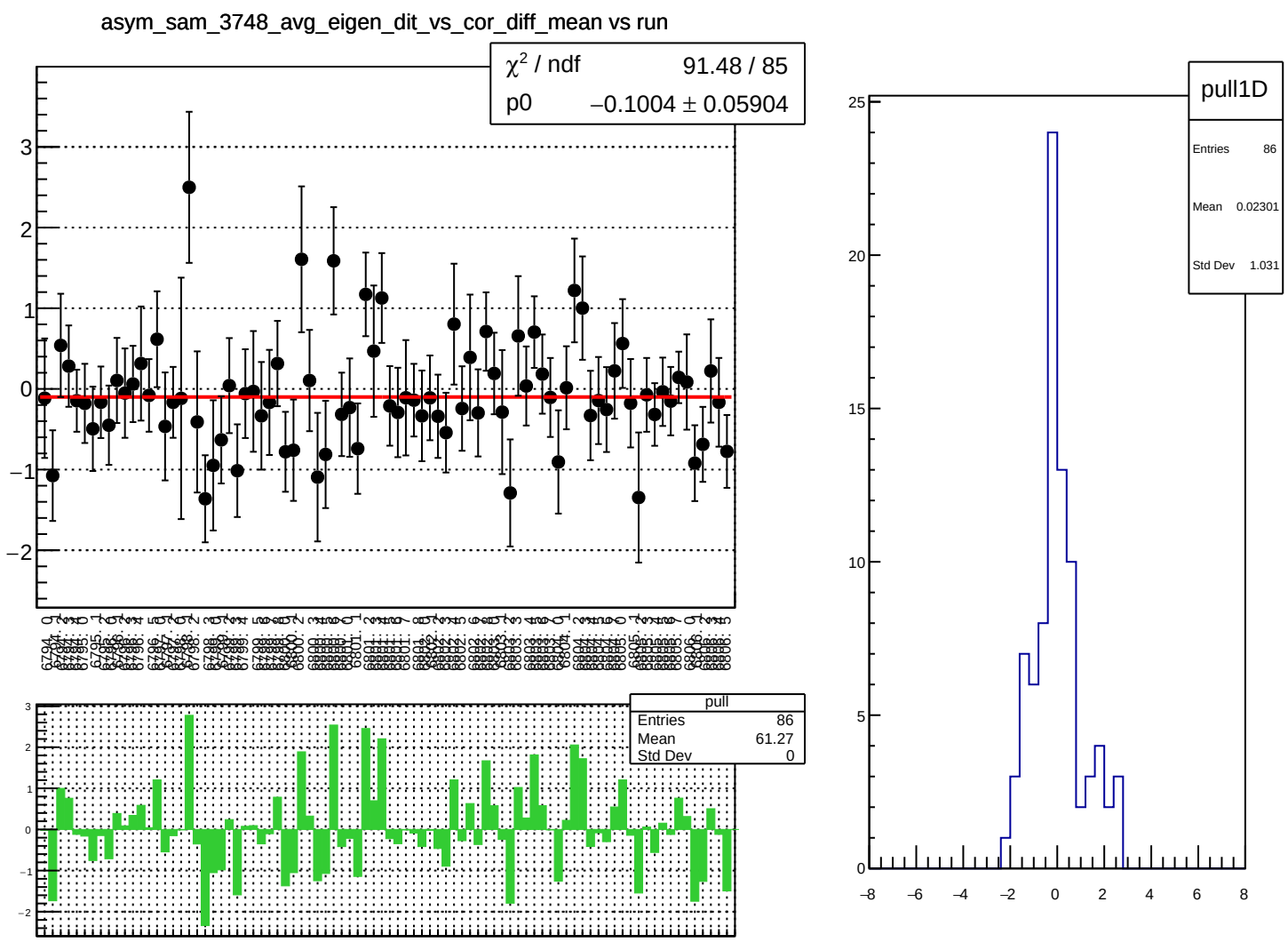

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.1004 ± 0.05903
pull
Entries 86
Mean 61.27
Std Dev 0
pull1D
Entries 86
Mean 0.02301
Std Dev 1.031

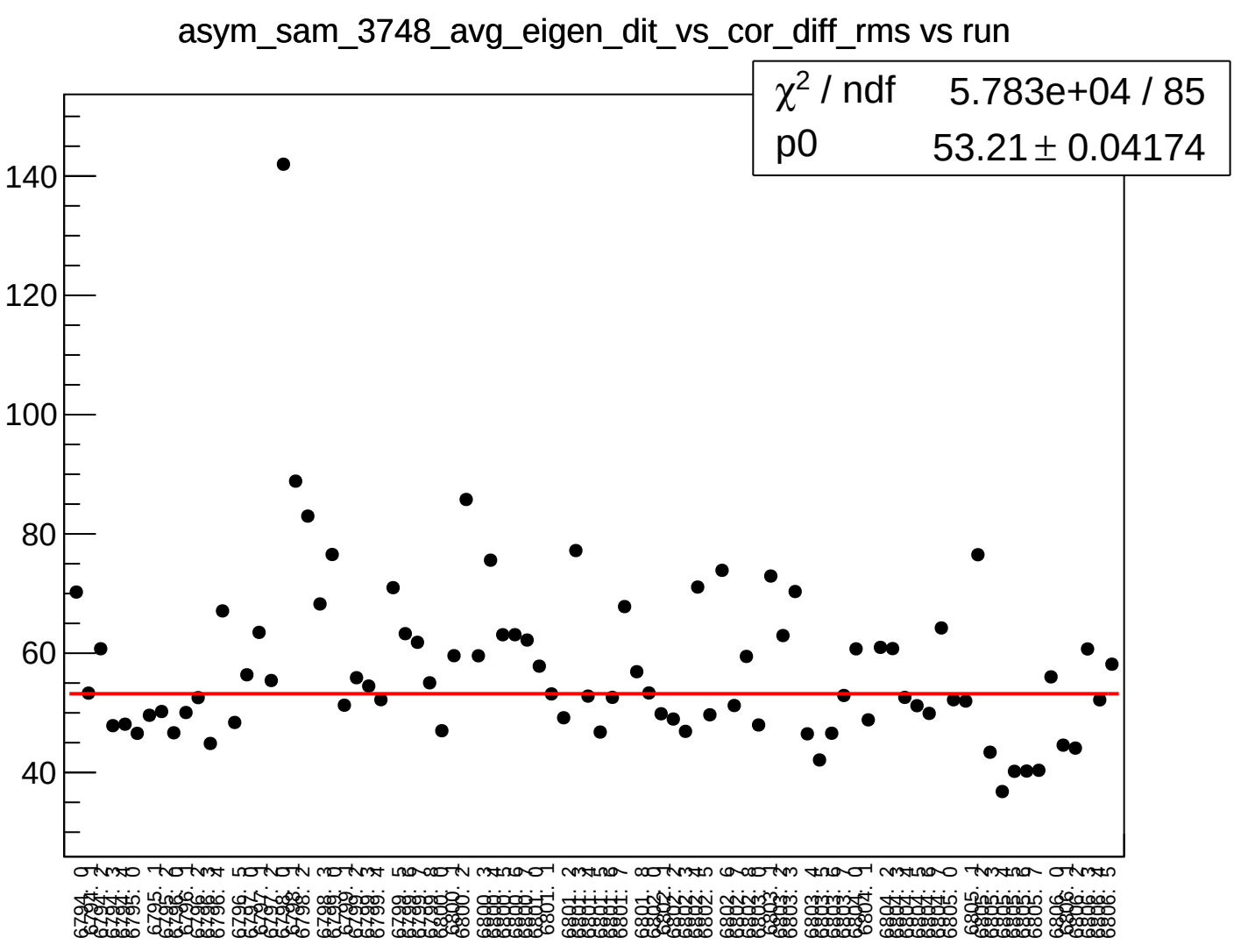

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.784e+04 / 85
p0 53.21 ± 0.04174
140
120
100
80
60
40

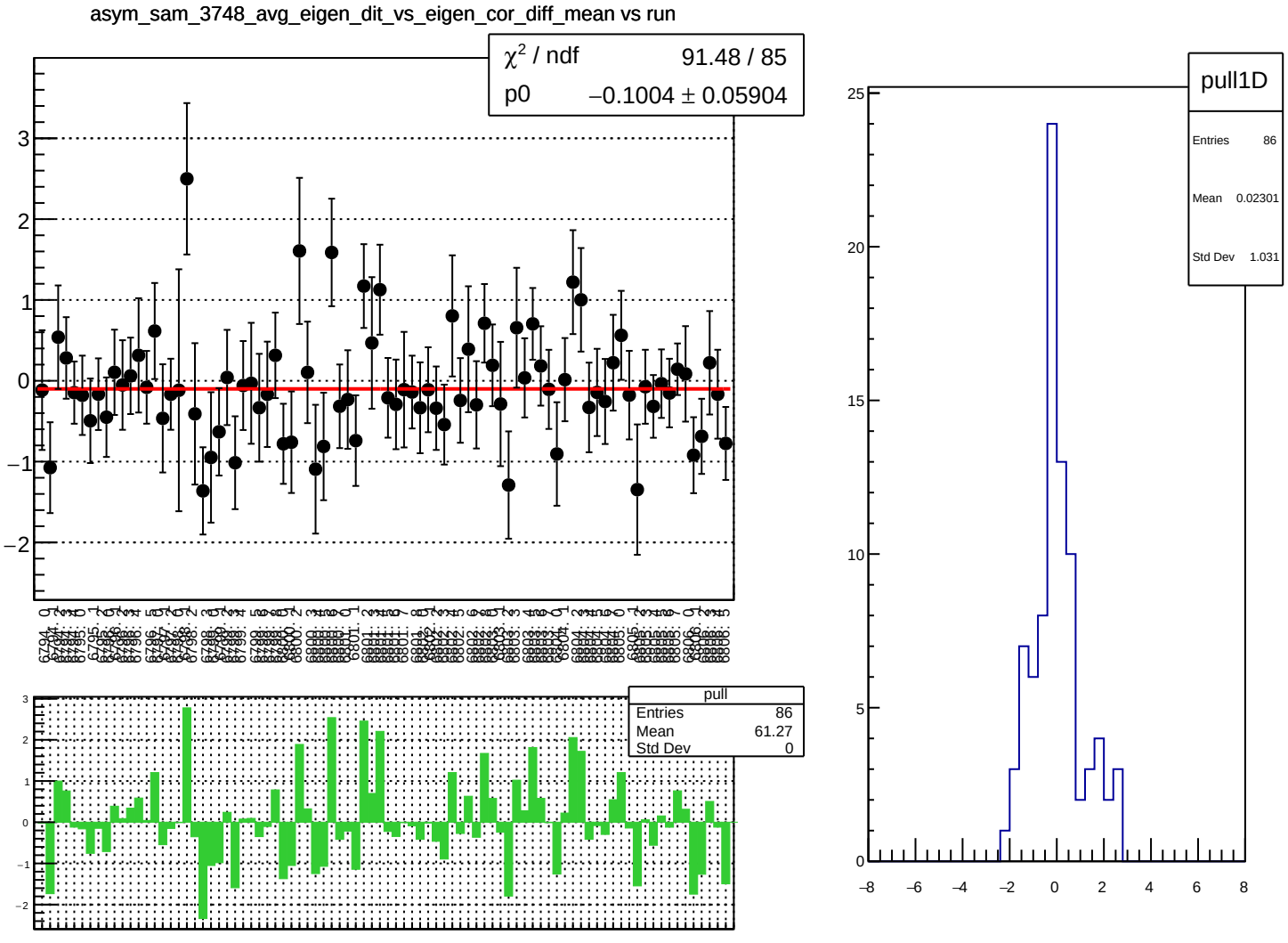

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 81.05 / 85
p0 −2.966e−08 ± 1.966e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −150.3
Std Dev 0
2
1
0
−1
−2
−3

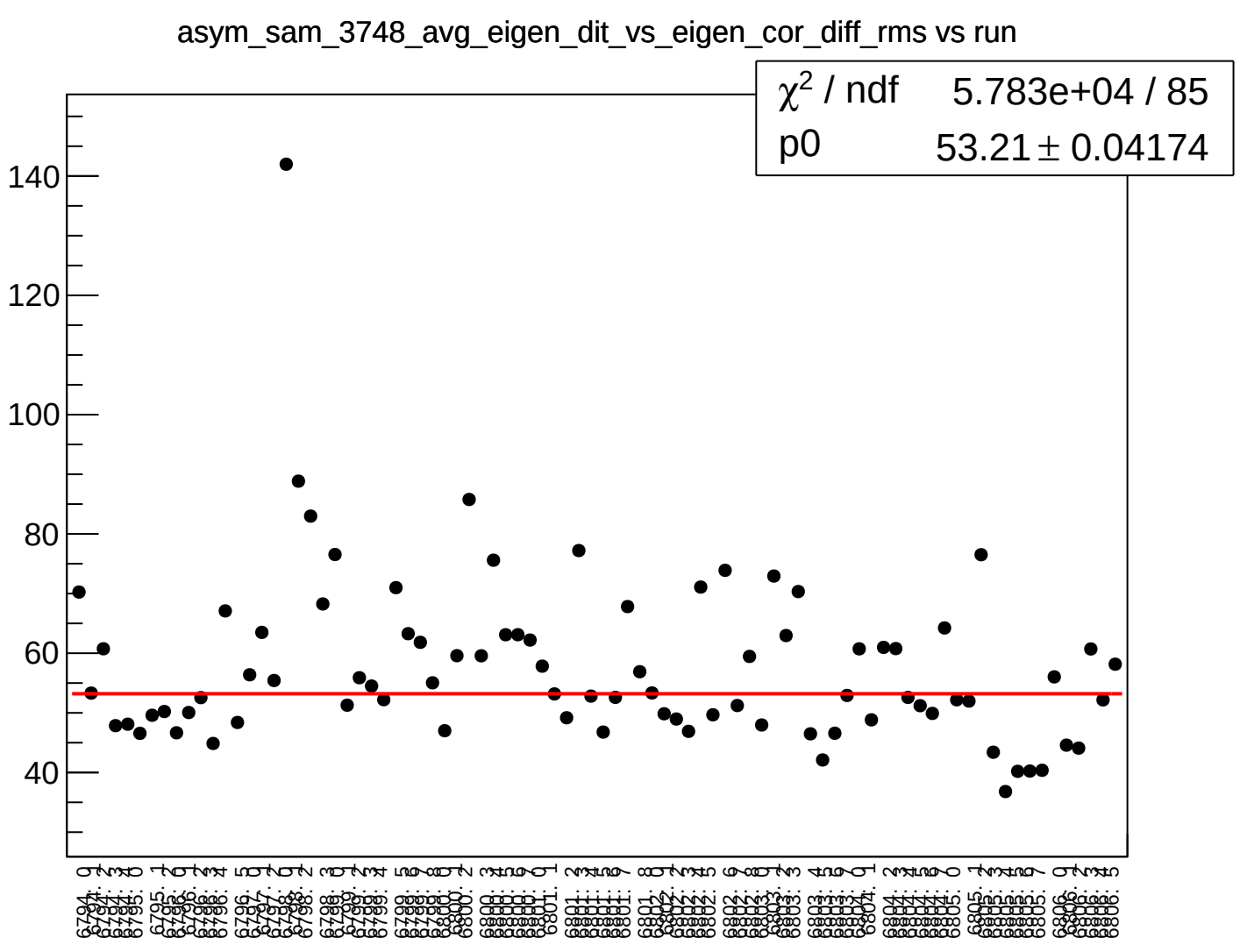

pull1D
Entries 86
Mean 0.009448
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

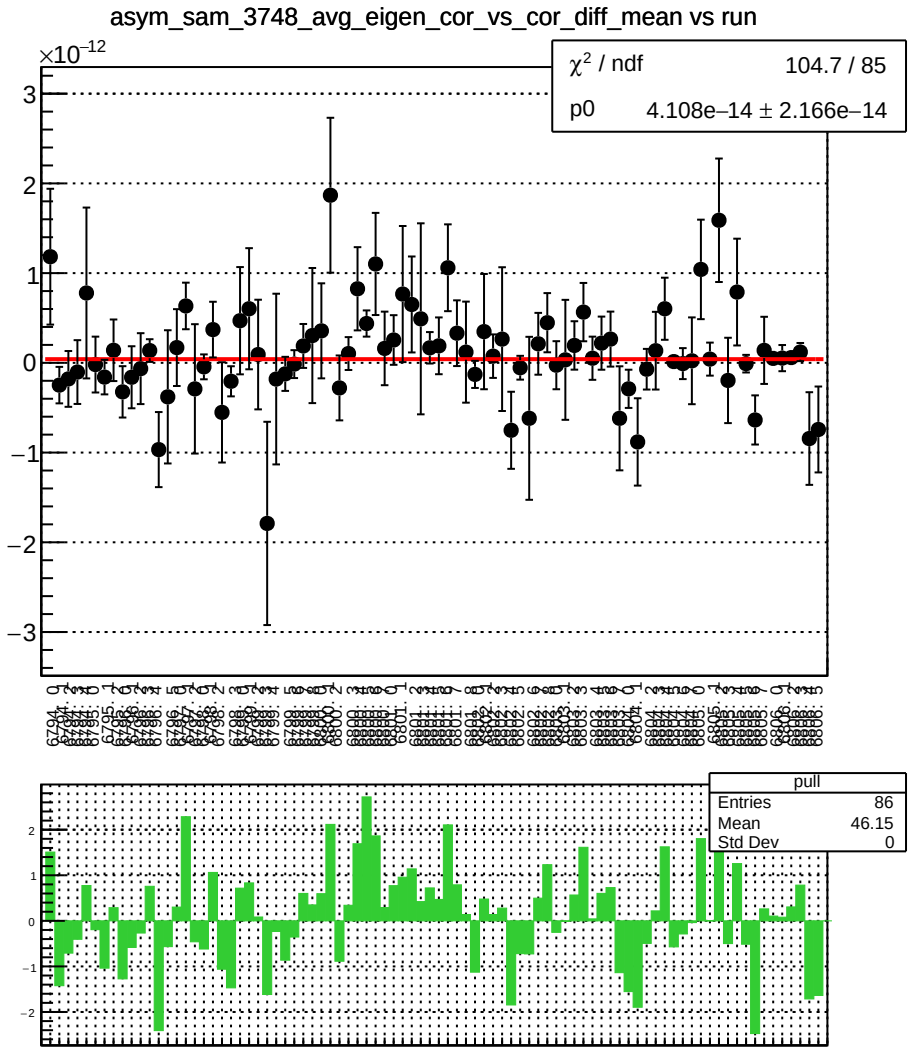

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.636e+04 / 85
p0 0.001794 ± 1.39e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

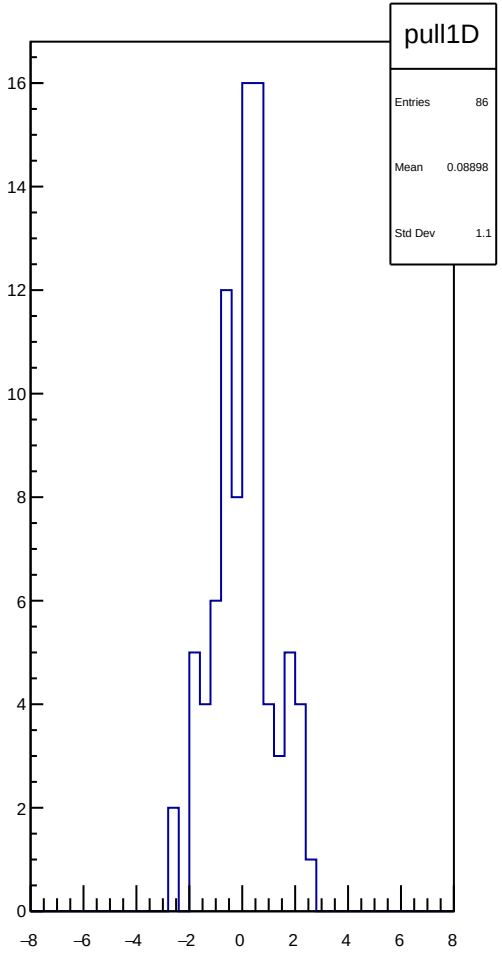

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.1004 ± 0.05904
pull
Entries 86
Mean 61.27
Std Dev 0
pull1D
Entries 86
Mean 0.02301
Std Dev 1.031

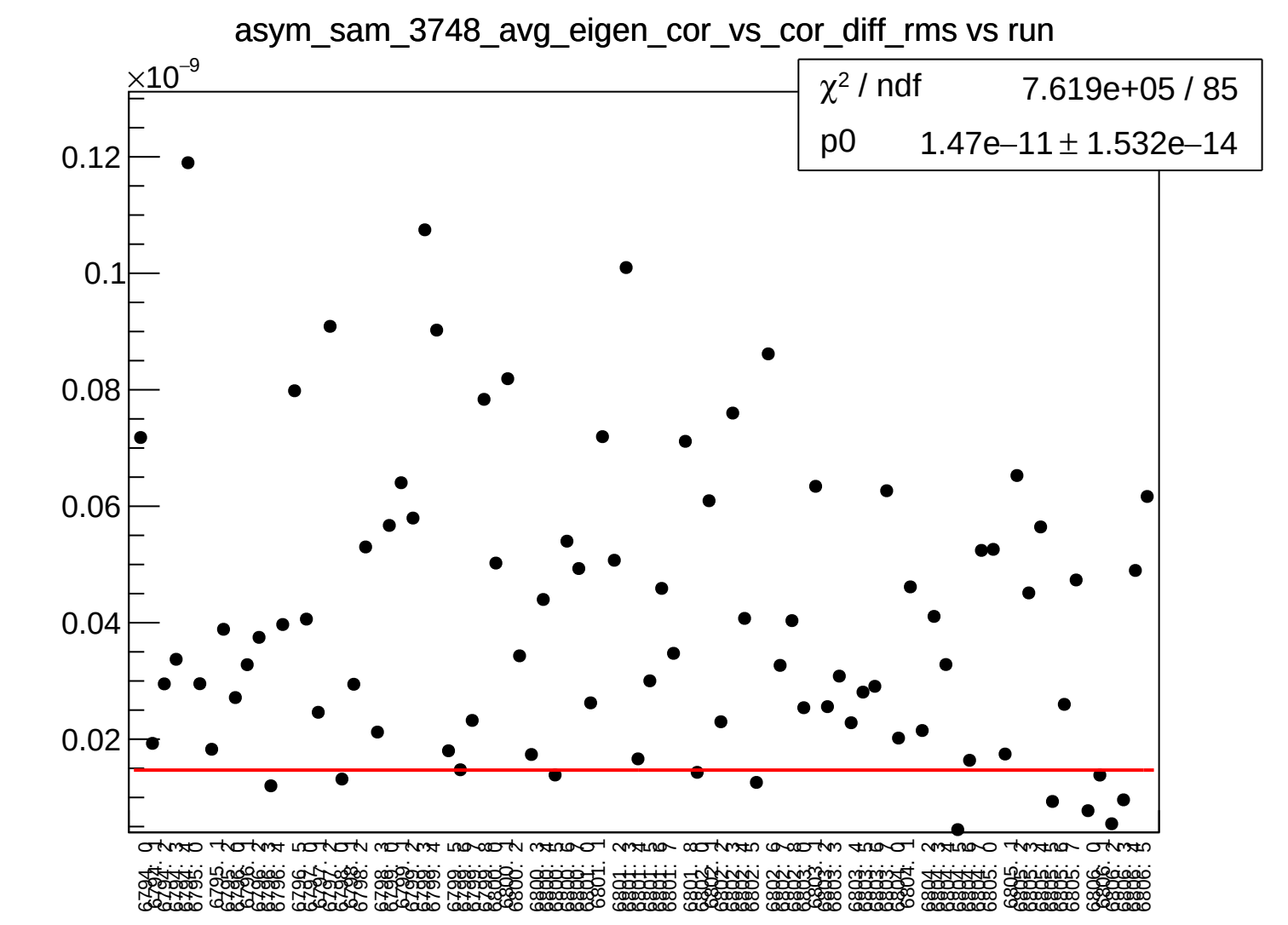

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.783e+04 / 85
p0 53.21 ± 0.04174
140
120
100
80
60
40

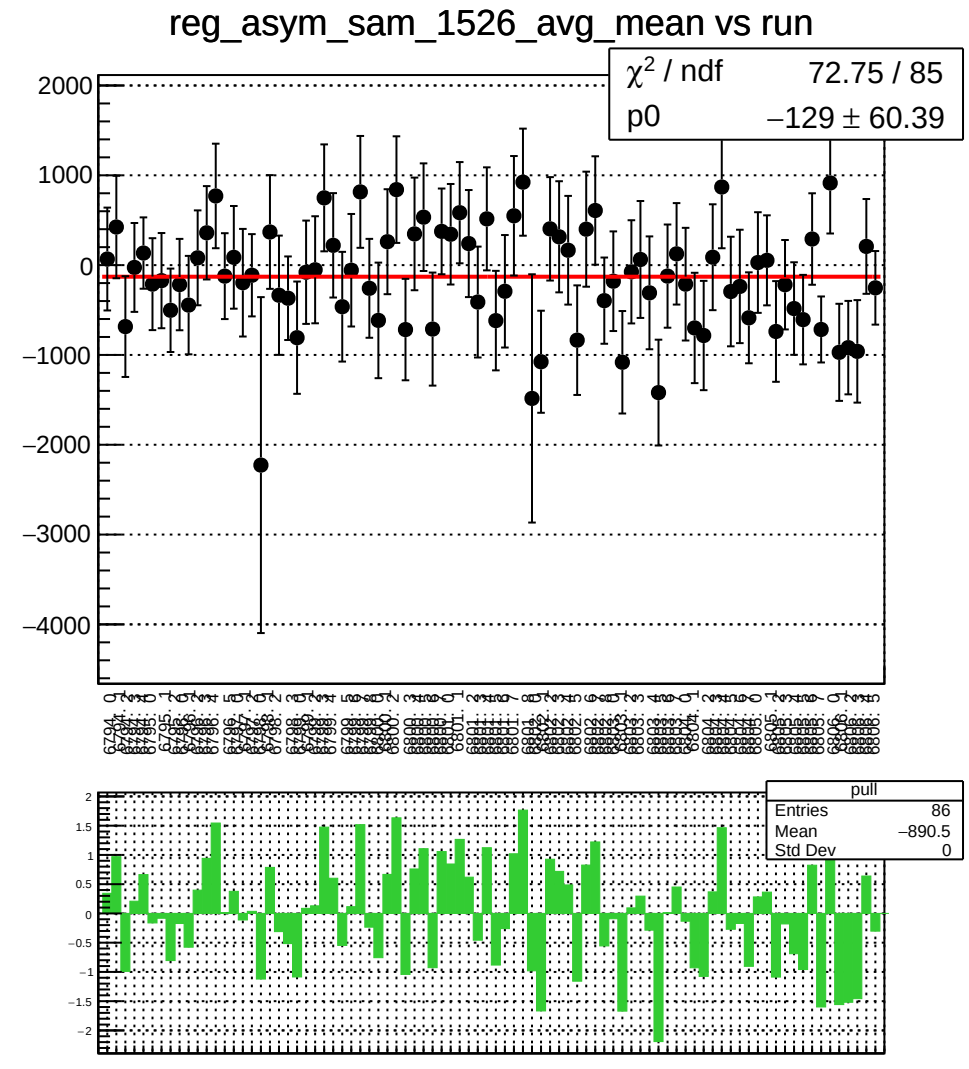

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.1004 ± 0.05904
pull
Entries 86
Mean 61.27
Std Dev 0
pull1D
Entries 86
Mean 0.02301
Std Dev 1.031

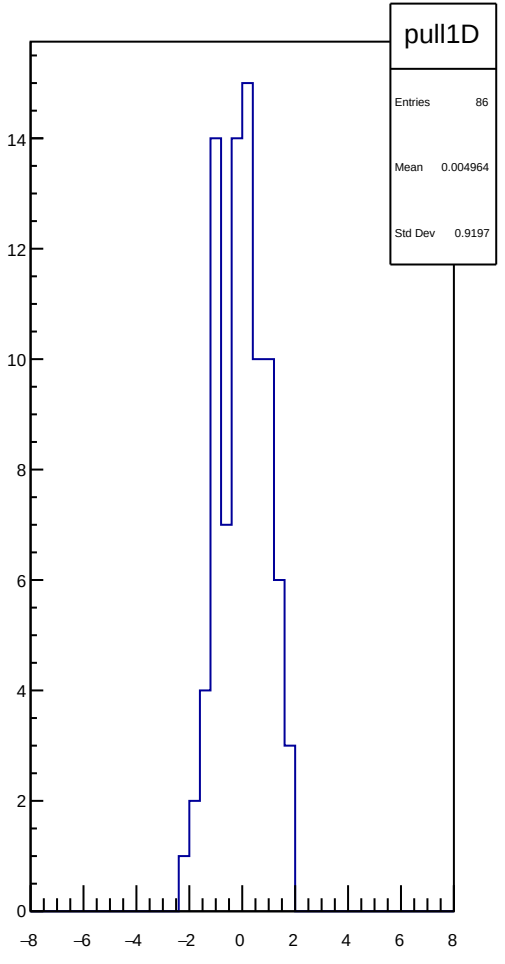

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.783e+04 / 85
p0 53.21 ± 0.04174
140
120
100
80
60
40

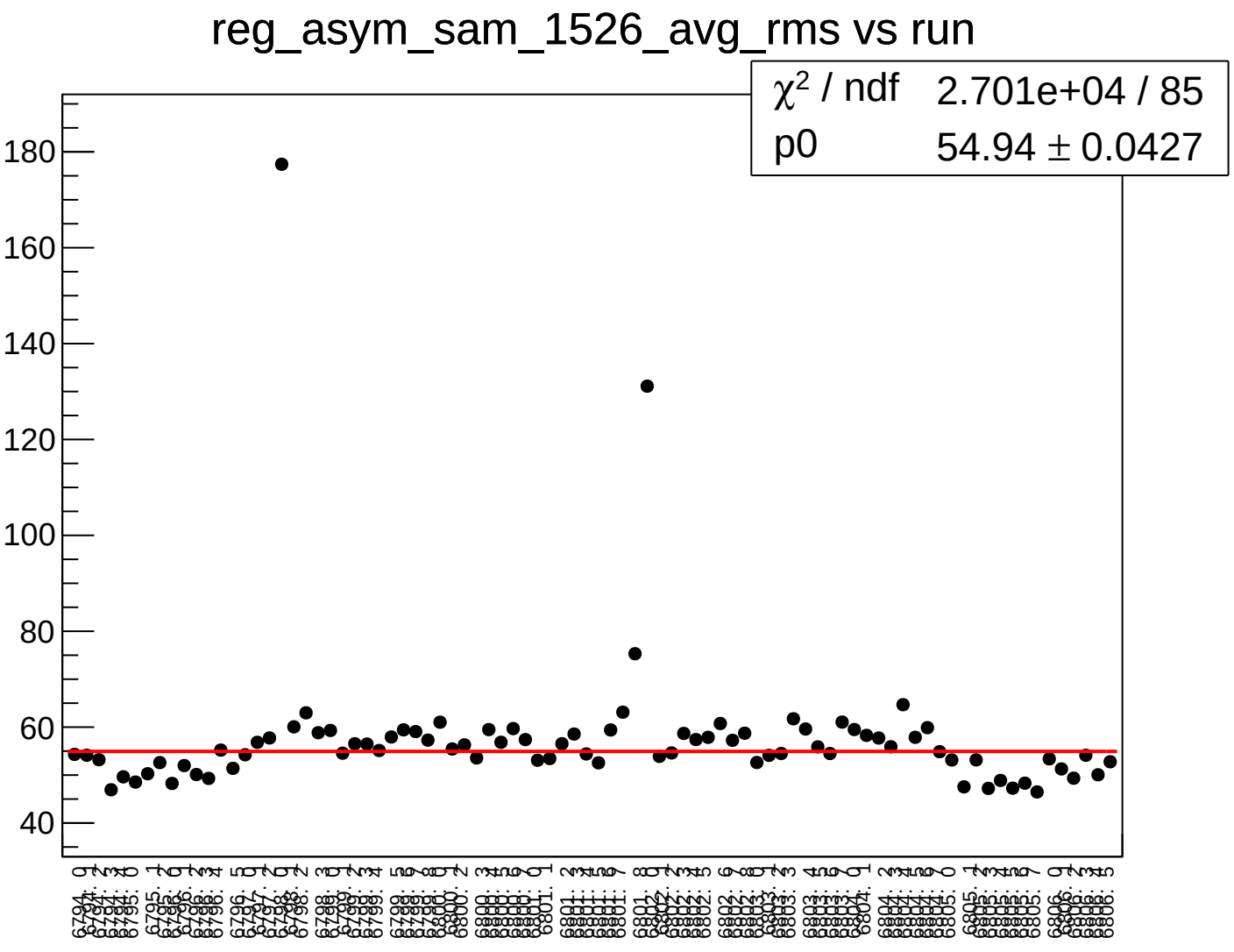

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.7 / 85
p0 4.108e−14 ± 2.166e−14
pull
Entries 86
Mean 46.15
Std Dev 0

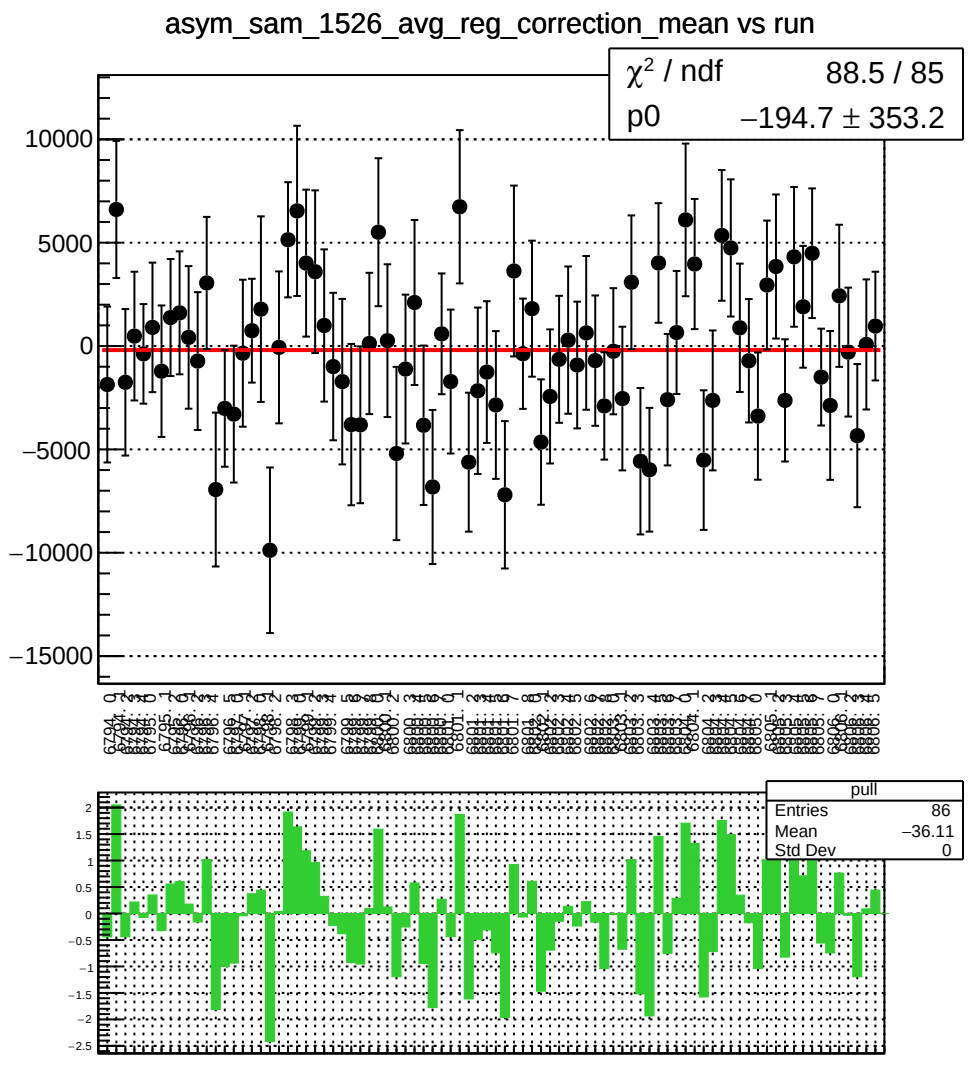

pull1D
Entries 86
Mean 0.08898
Std Dev 1.1

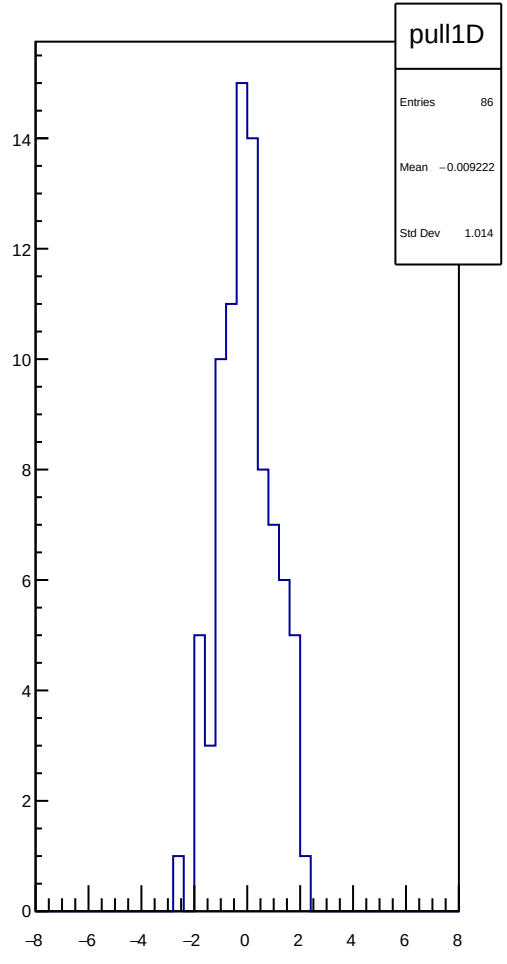

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.619e+05 / 85
p0 1.47e−11 ± 1.532e−14
0.12
0.1
0.08
0.06
0.04
0.02

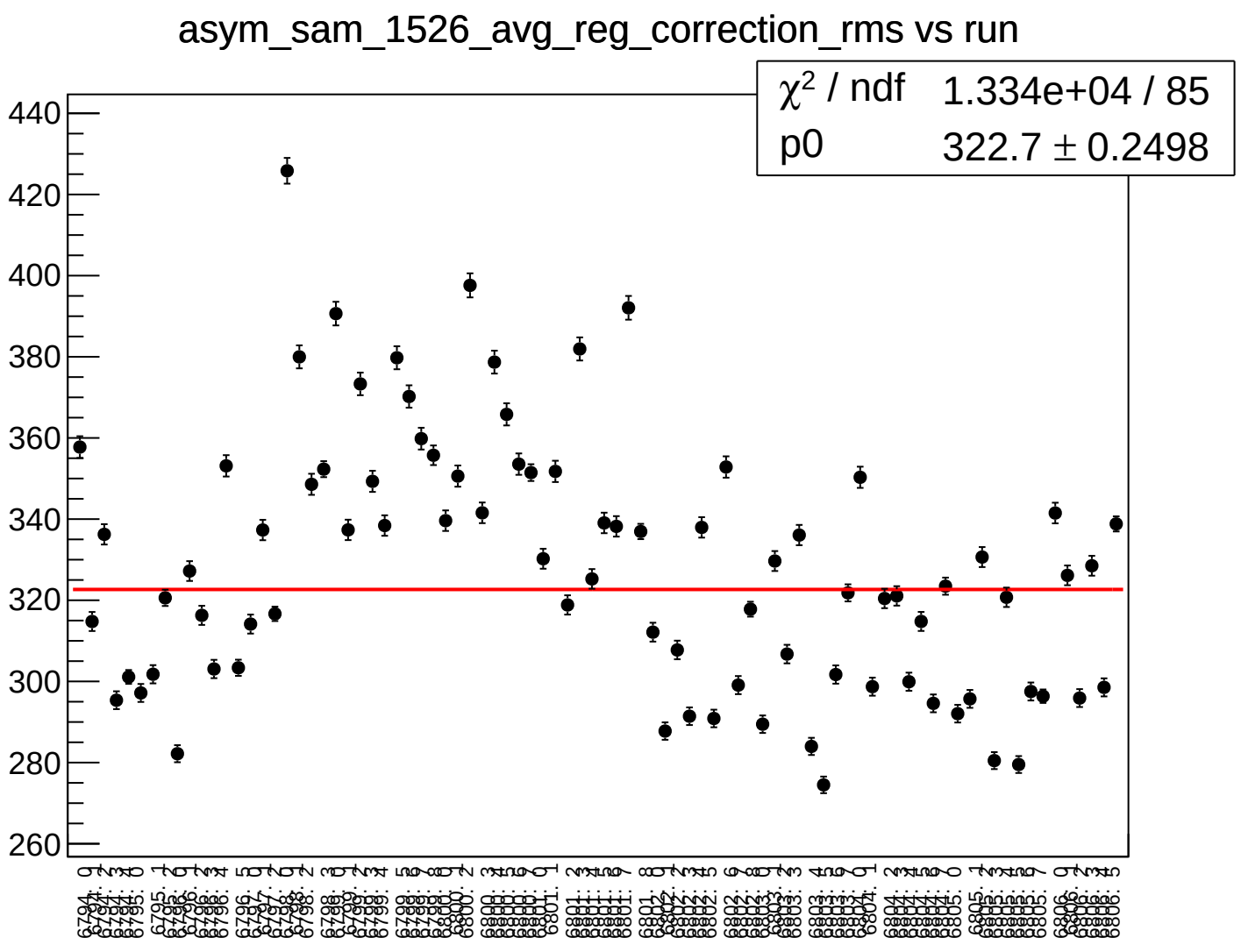

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 72.75 / 85
p0 −129 ± 60.39
pull
Entries 86
Mean −890.5
Std Dev 0

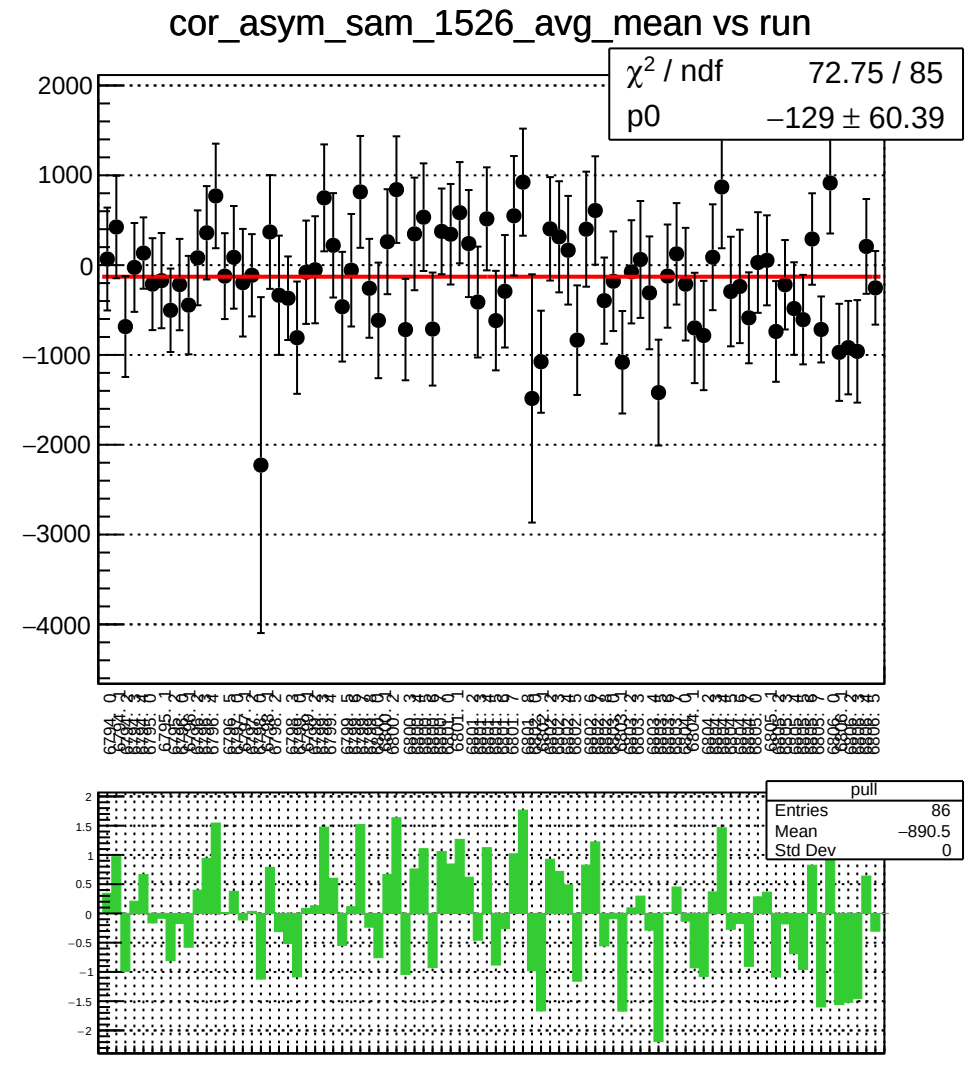

pull1D
Entries 86
Mean 0.004964
Std Dev 0.9197

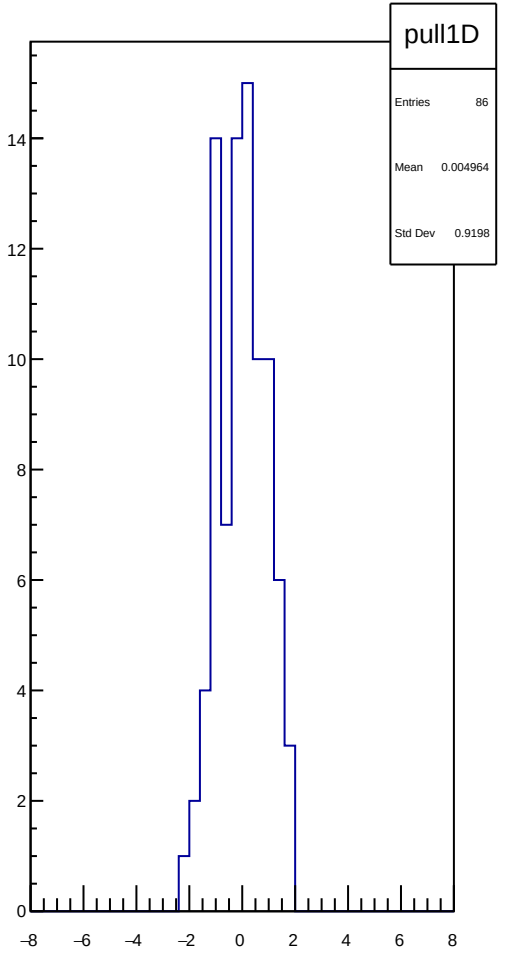

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.701e+04 / 85
p0 54.94 ± 0.0427
180
160
140
120
100
80
60
40

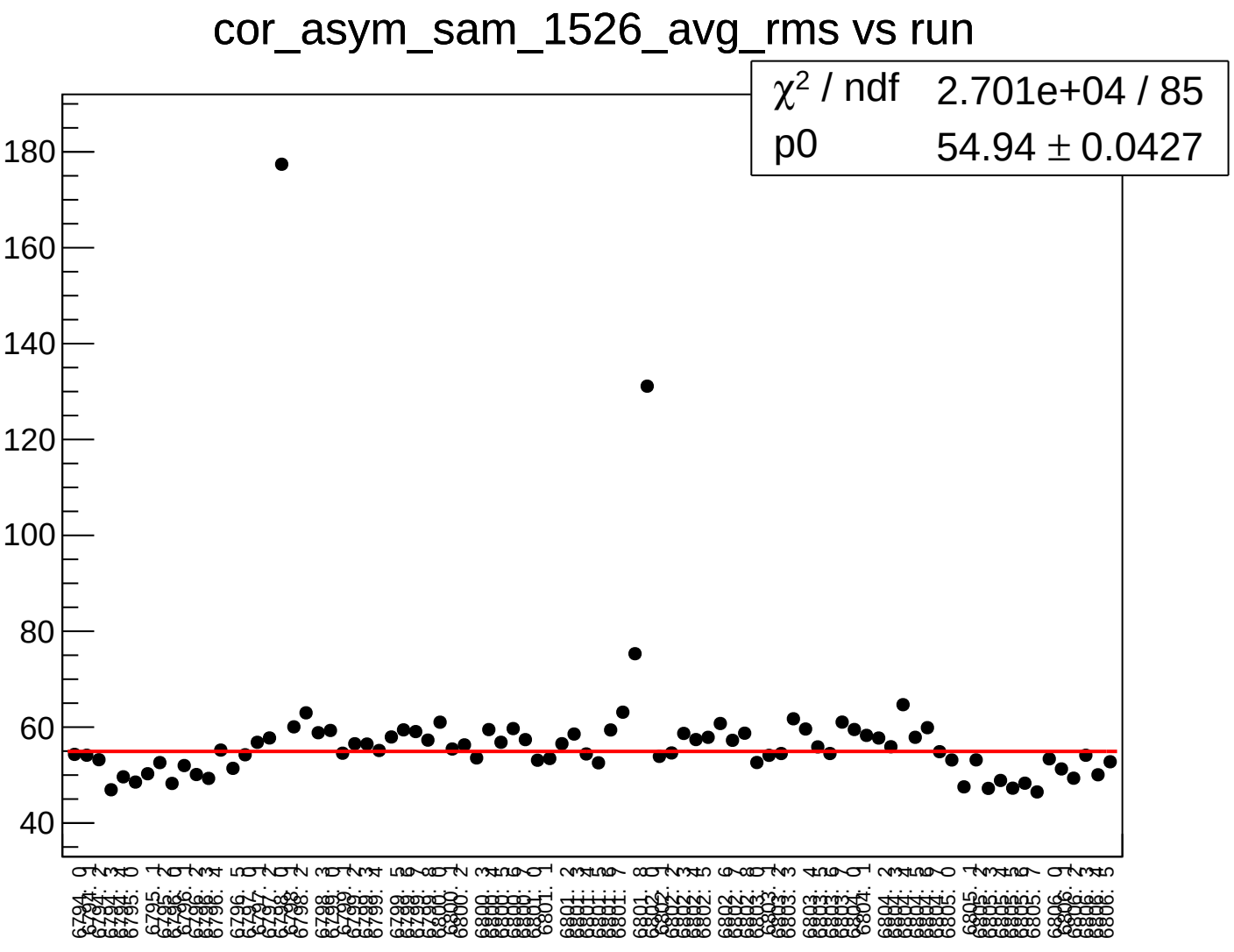

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 88.5 / 85
p0 −194.7 ± 353.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −36.11
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

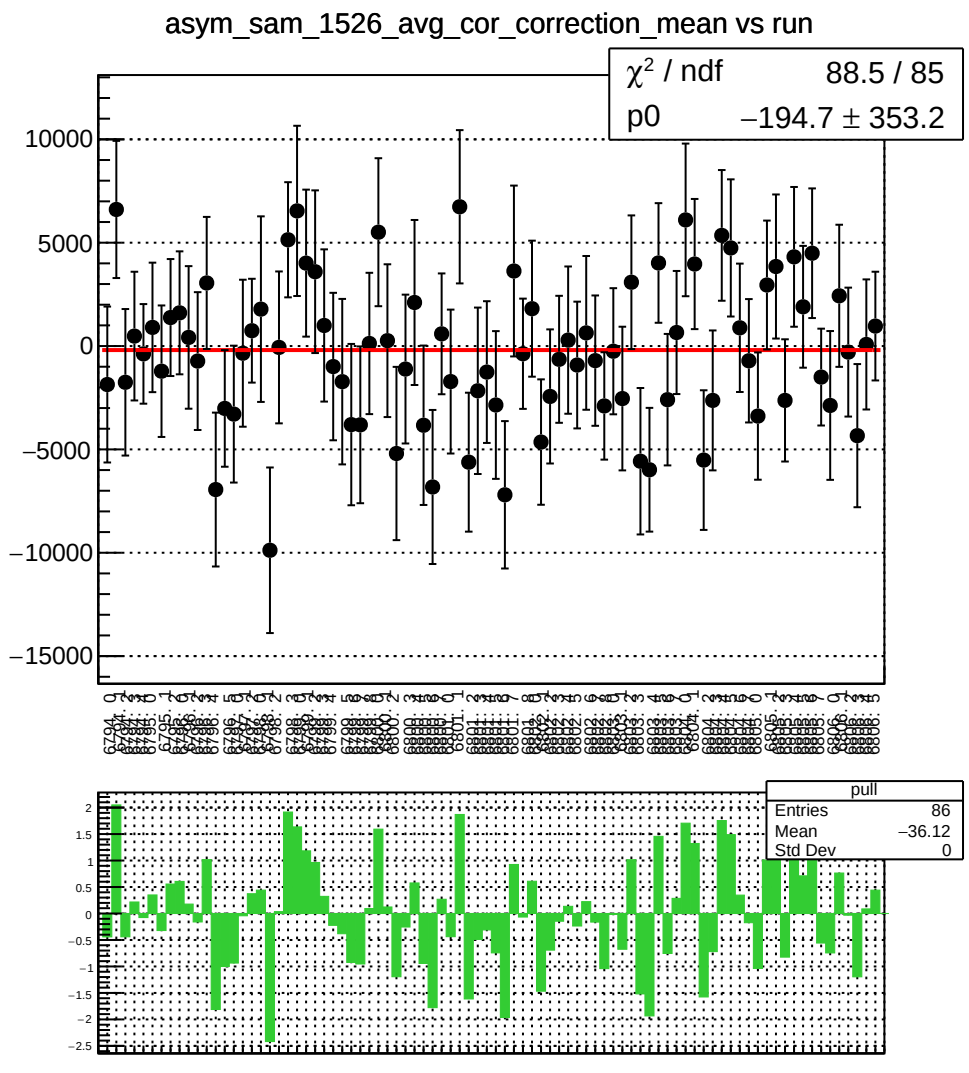

pull1D
Entries 86
Mean −0.009222
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

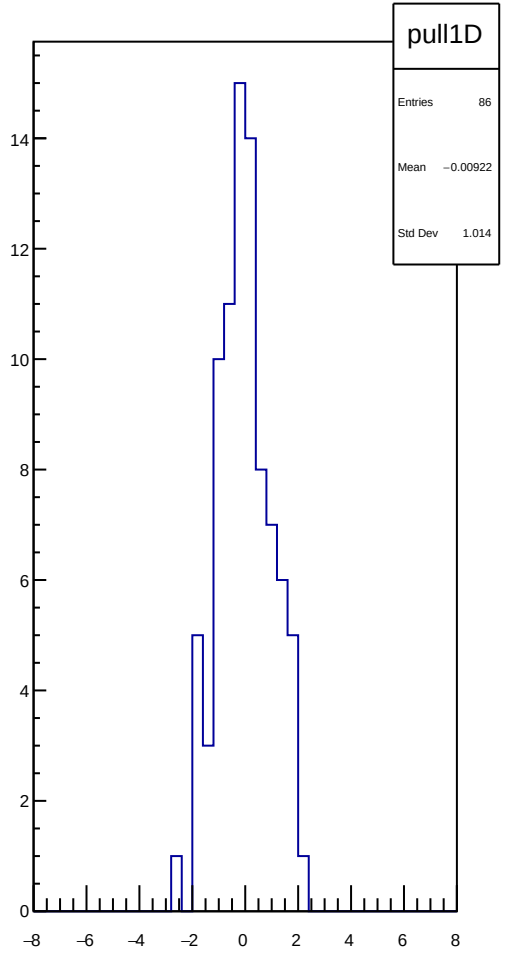

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 1.334e+04 / 85
p0 322.7 ± 0.2498
440
420
400
380
360
340
320
300
280
260

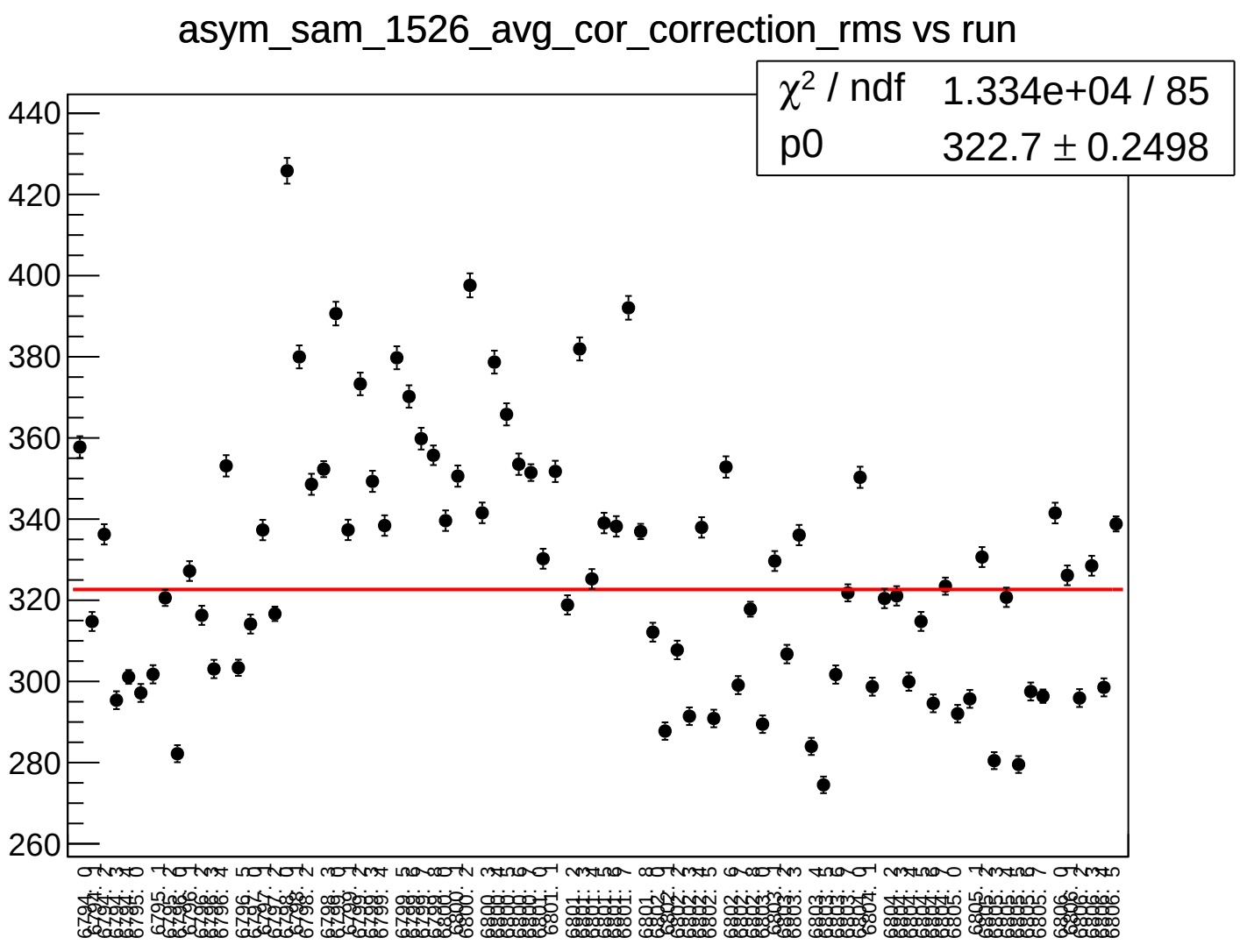

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 72.75 / 85
p0 −129 ± 60.39
pull
Entries 86
Mean −890.5
Std Dev 0

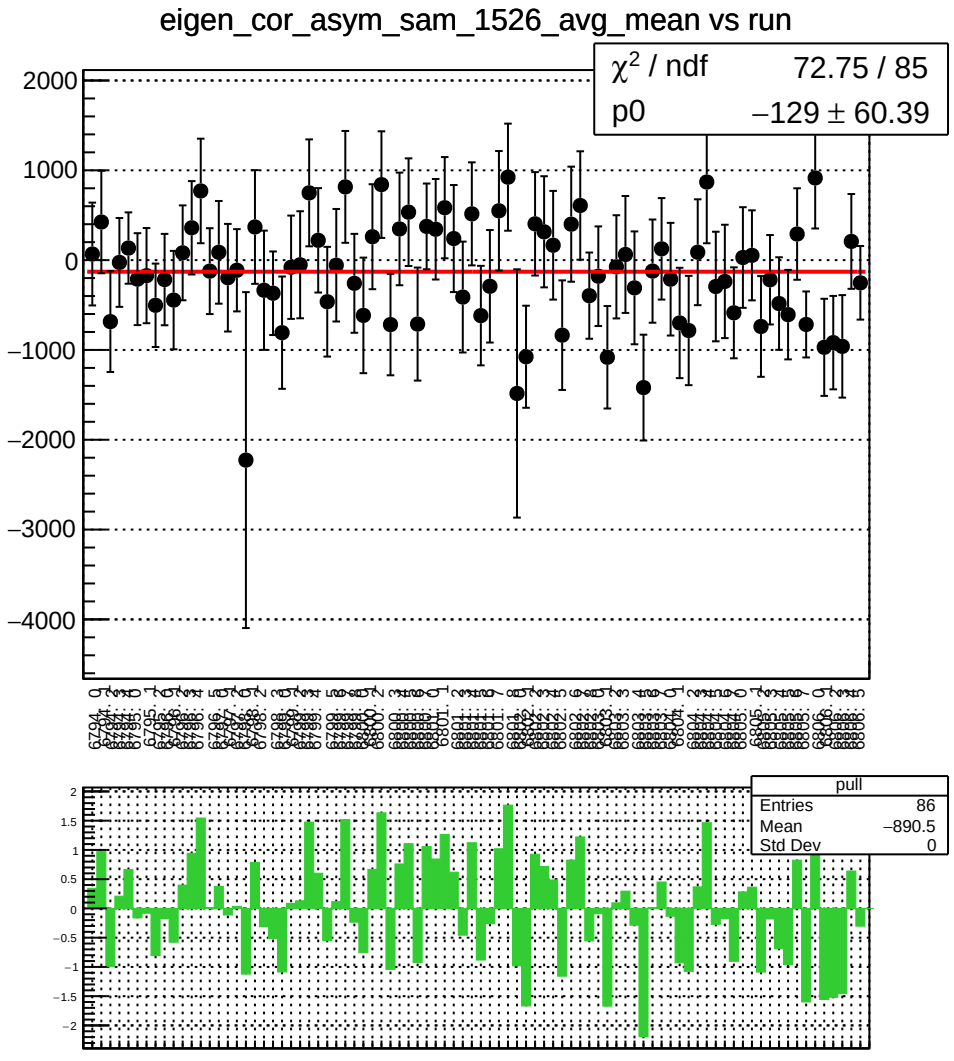

pull1D
Entries 86
Mean 0.004964
Std Dev 0.9198

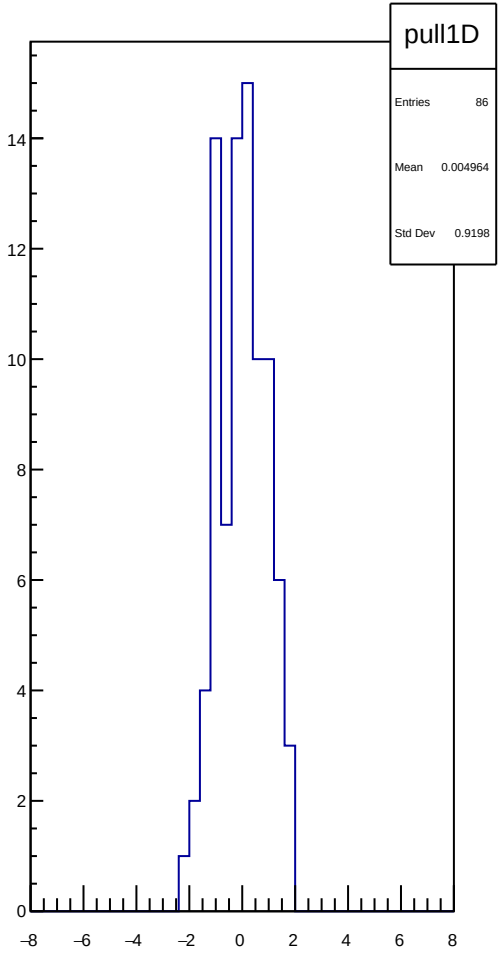

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.701e+04 / 85
p0 54.94 ± 0.0427
180
160
140
120
100
80
60
40

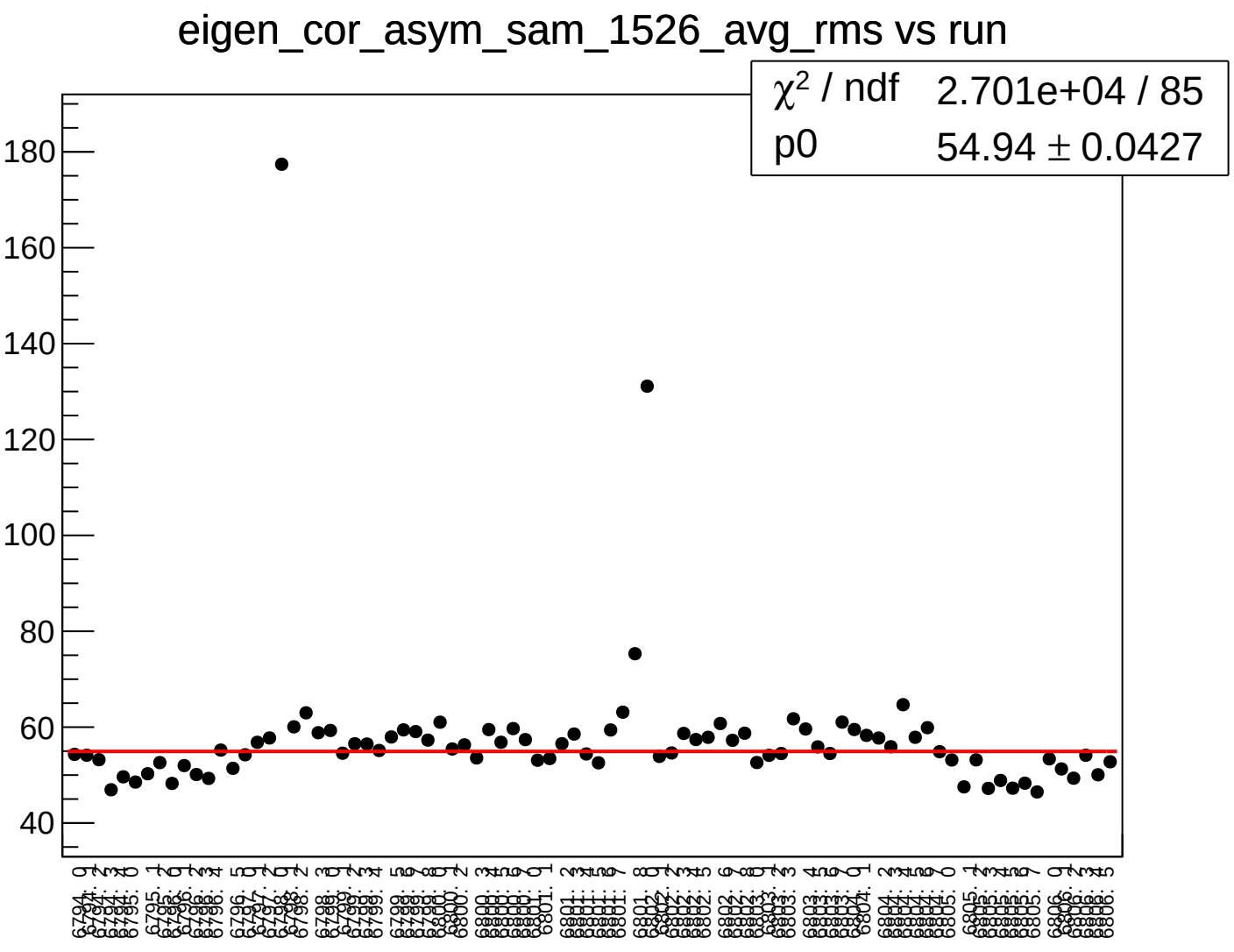

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 88.5 / 85
p0 −194.7 ± 353.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −36.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

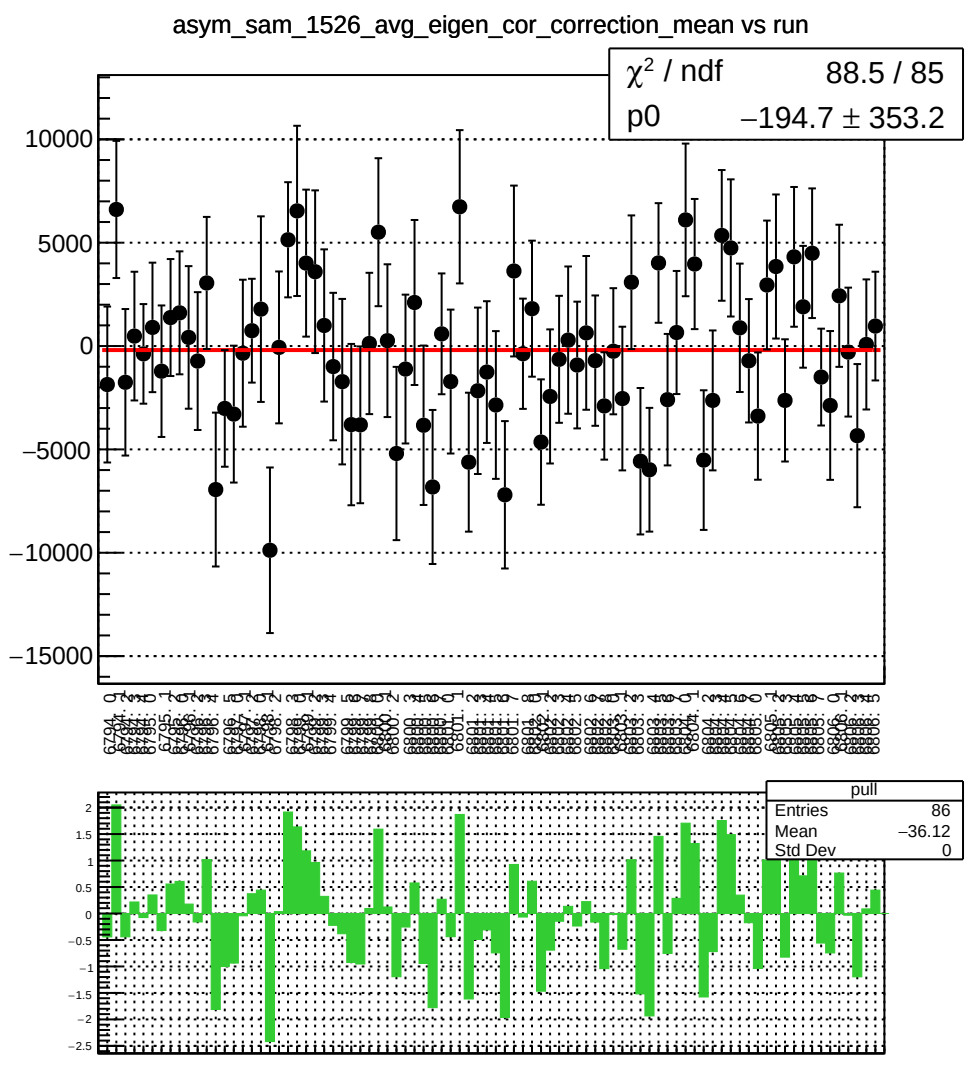

pull1D
Entries 86
Mean −0.00922
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

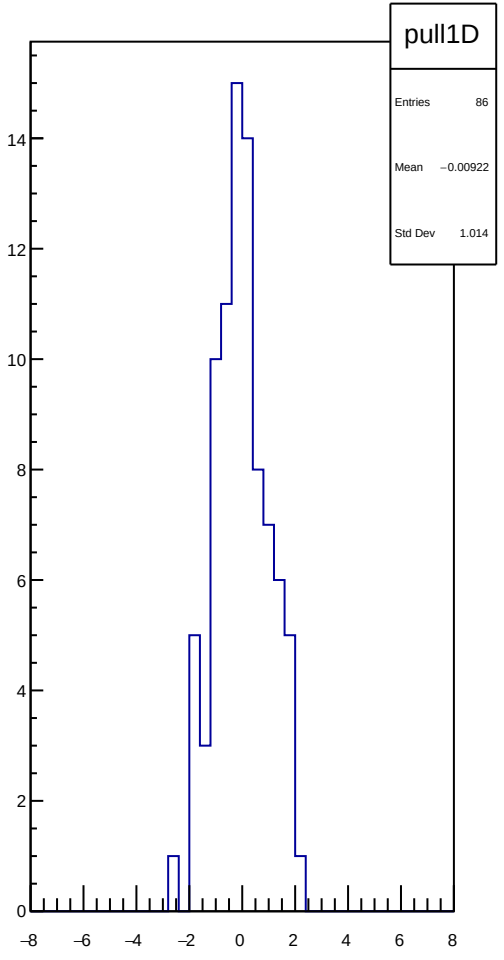

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 1.334e+04 / 85
p0 322.7 ± 0.2498
440
420
400
380
360
340
320
300
280
260

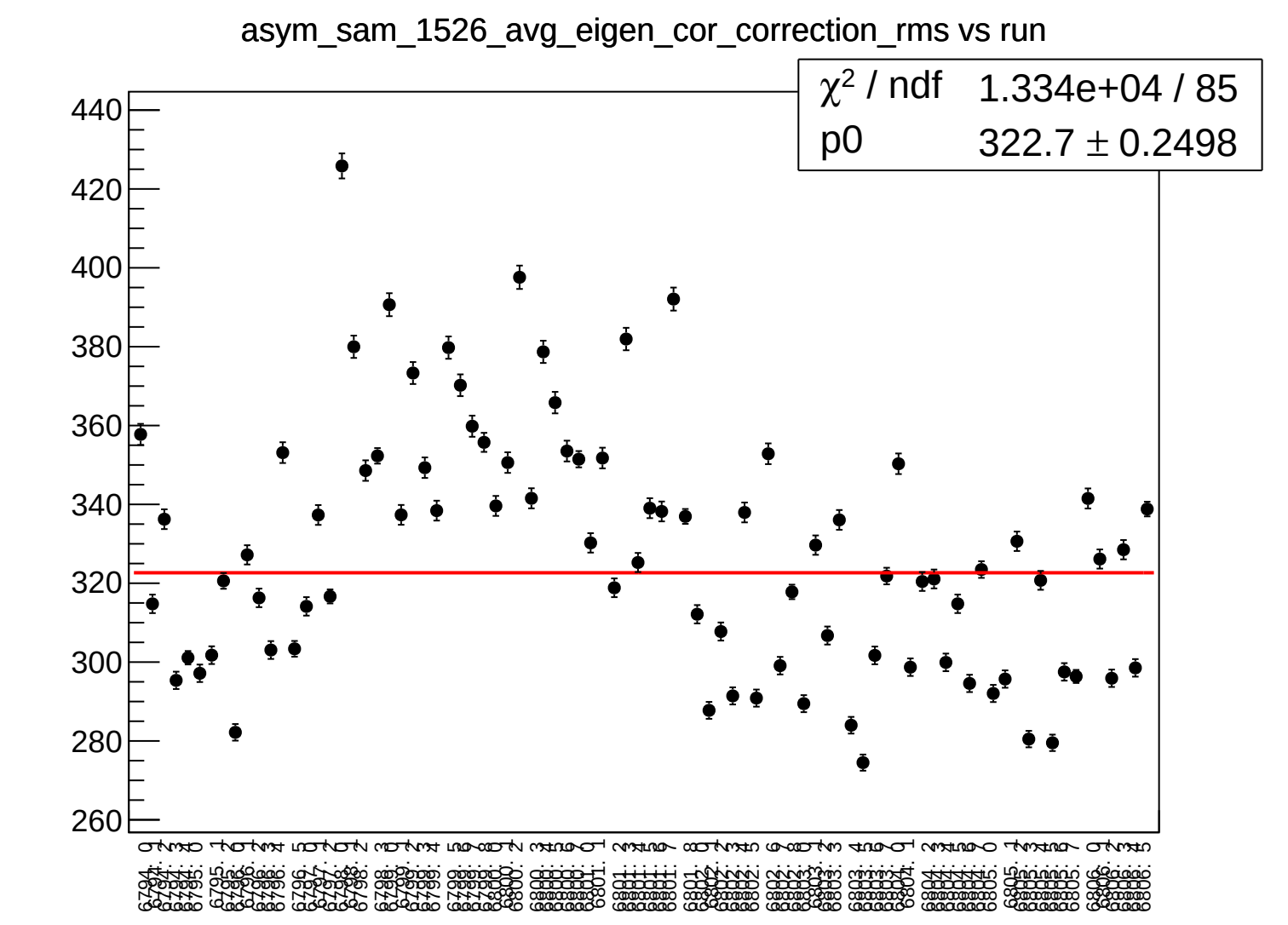

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 72.75 / 85
p0 −129 ± 60.39
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 86
Mean −890.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

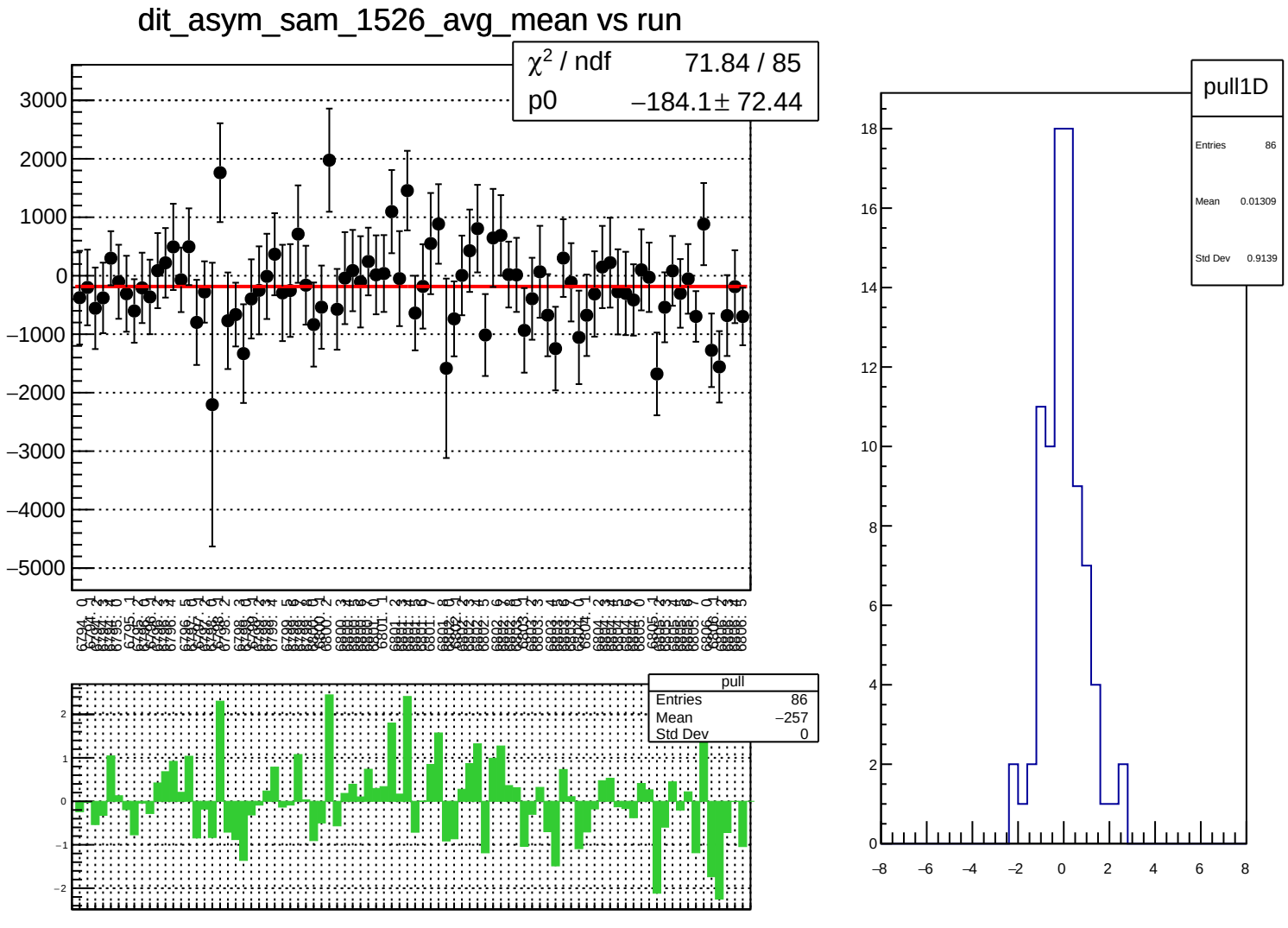

pull1D
Entries 86
Mean 0.004964
Std Dev 0.9198
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

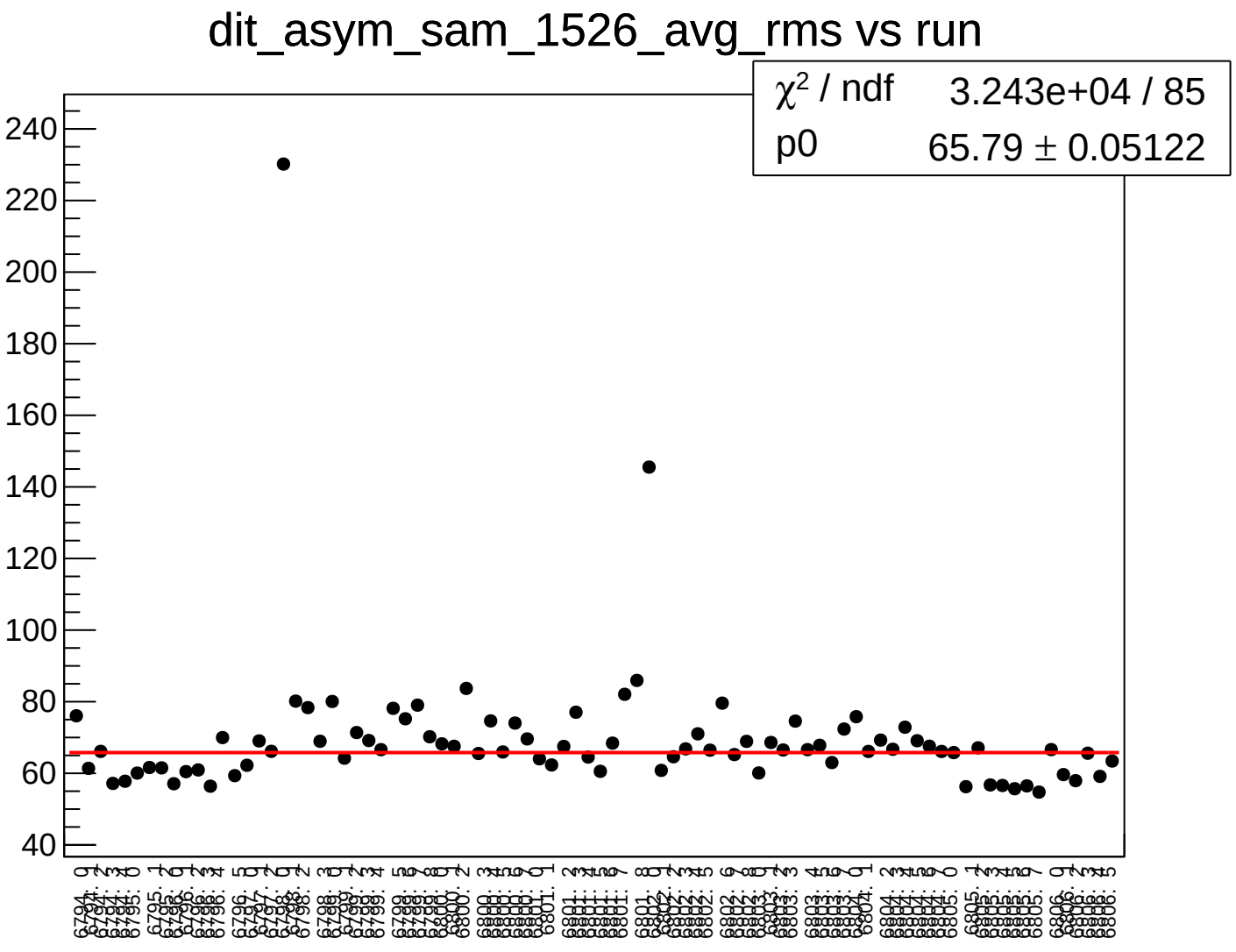

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 2.701e+04 / 85
p0 54.94 ± 0.0427
180
160
140
120
100
80
60
40

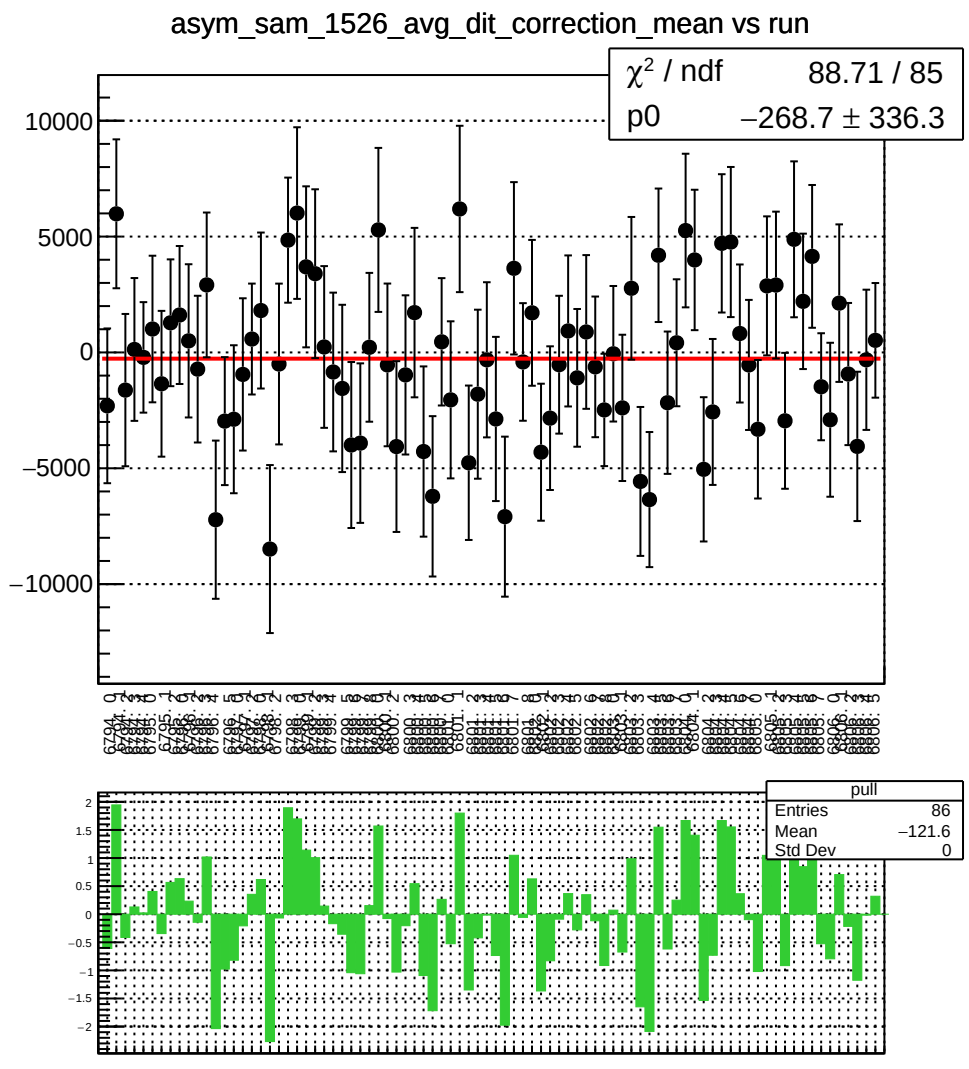

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.5 / 85
p0 −194.7 ± 353.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −36.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

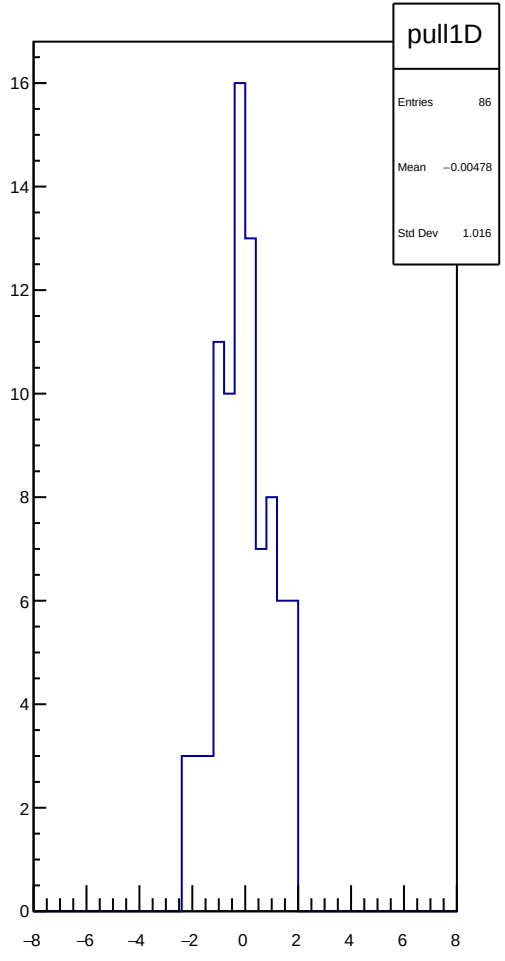

pull1D
Entries 86
Mean −0.00922
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

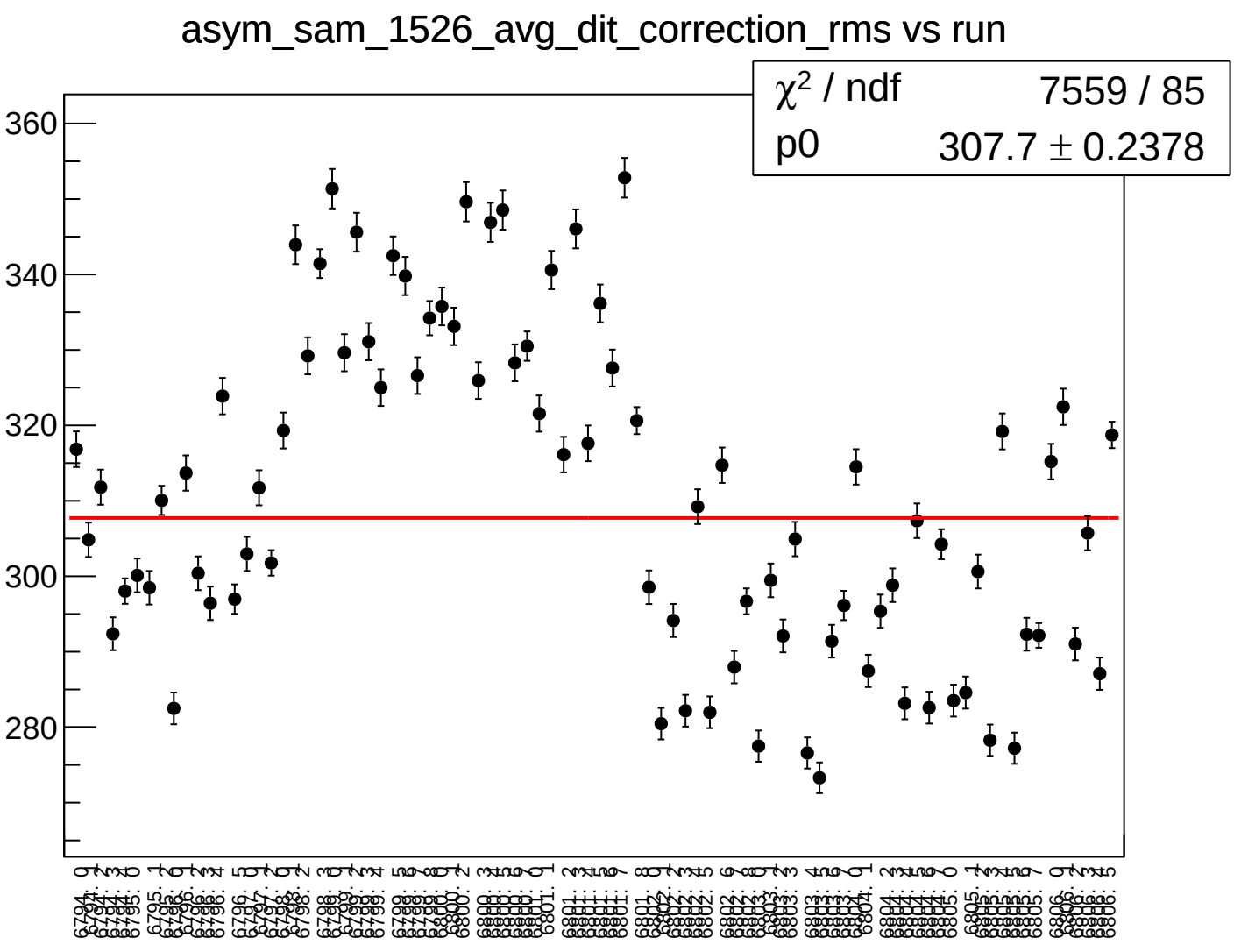

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.334e+04 / 85
p0 322.7 ± 0.2498
440
420
400
380
360
340
320
300
280
260

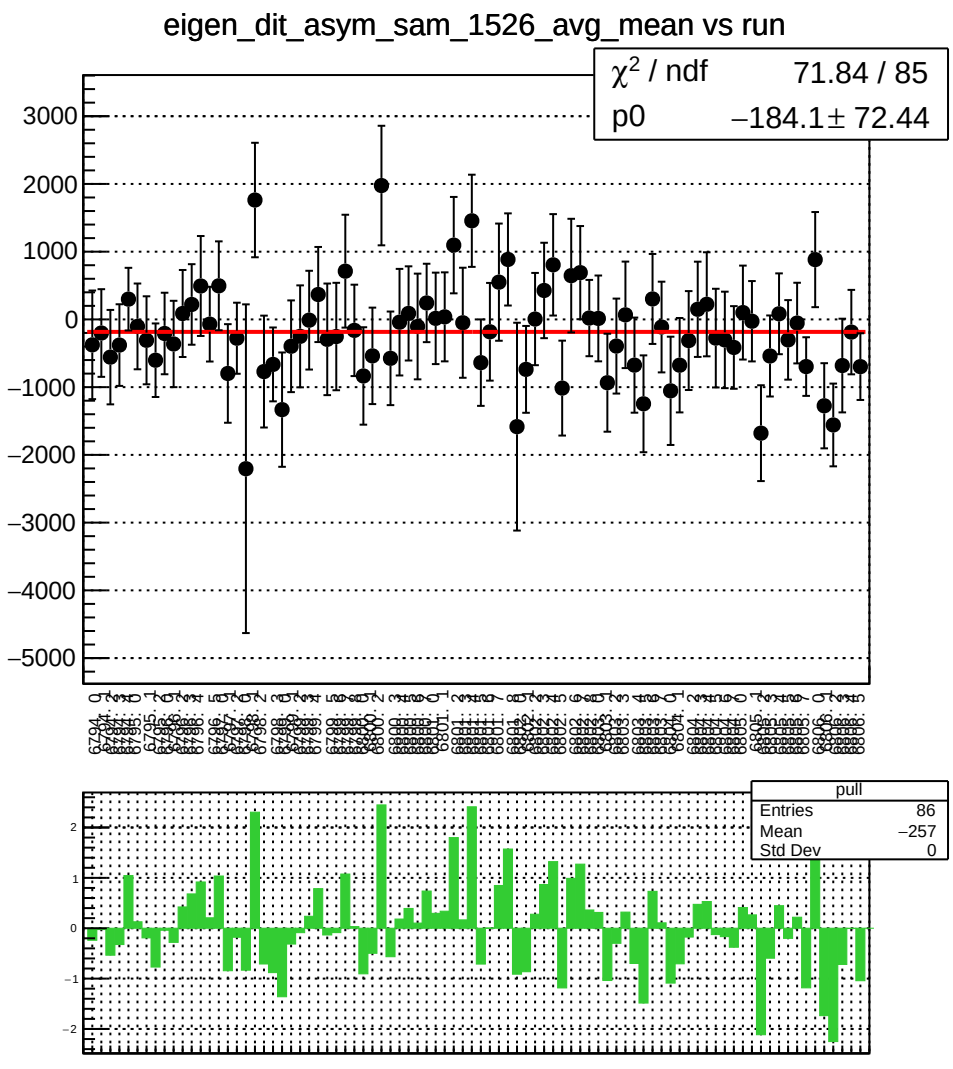

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 71.84 / 85
p0 −184.1± 72.44
pull
Entries 86
Mean −257
Std Dev 0
pull1D
Entries 86
Mean 0.01309
Std Dev 0.9139

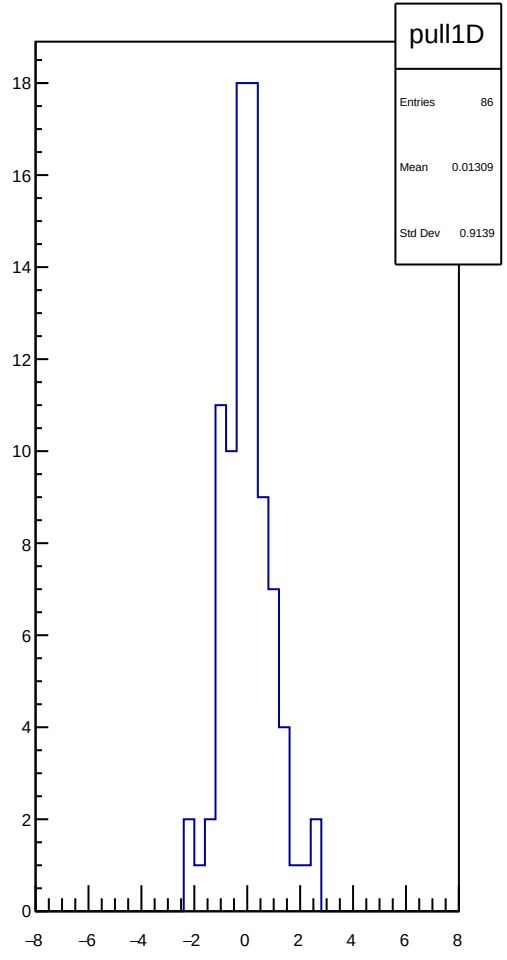

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 3.243e+04 / 85
p0 65.79 ± 0.05122
240
220
200
180
160
140
120
100
80
60
40

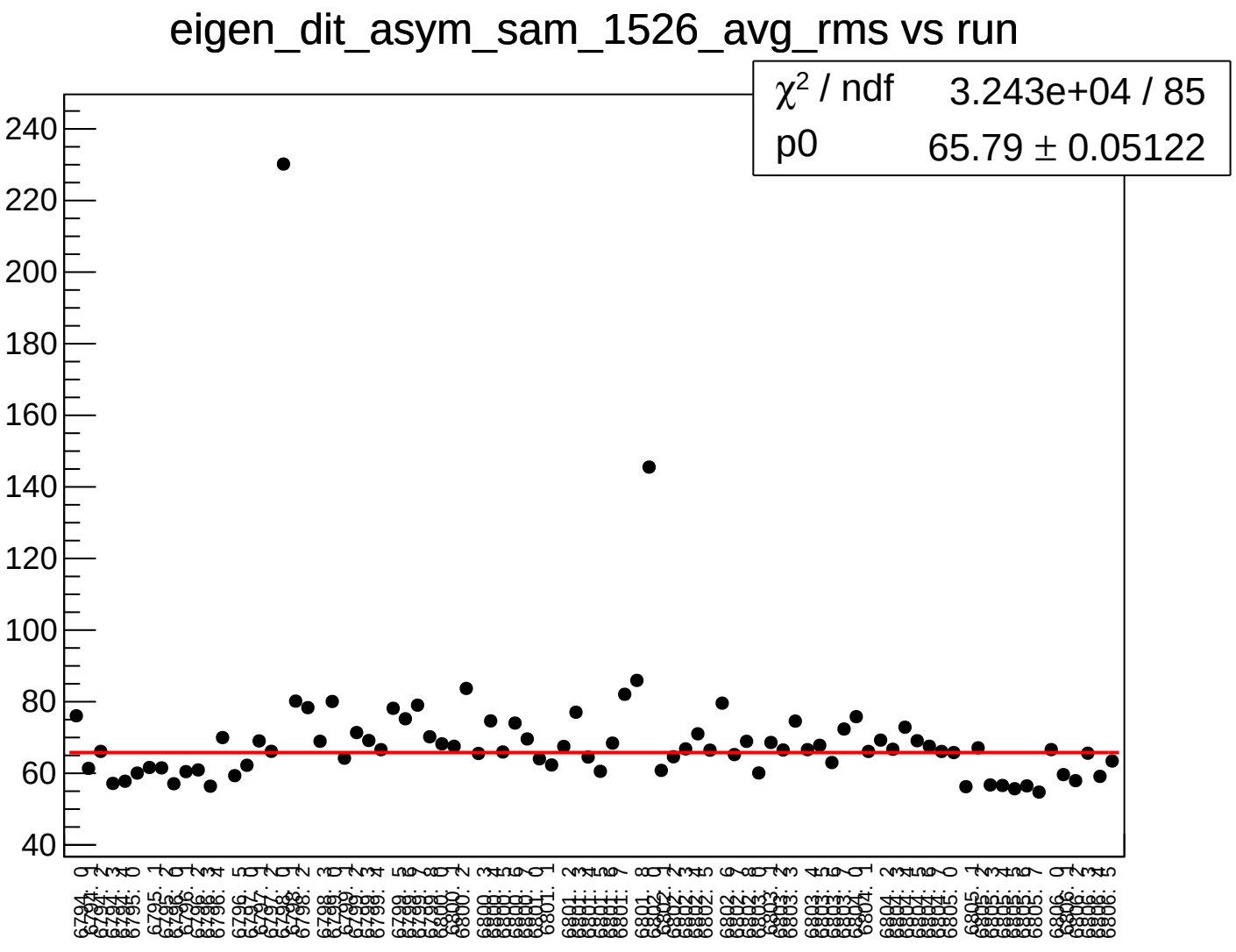

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 88.71 / 85
p0 −268.7 ± 336.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −121.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

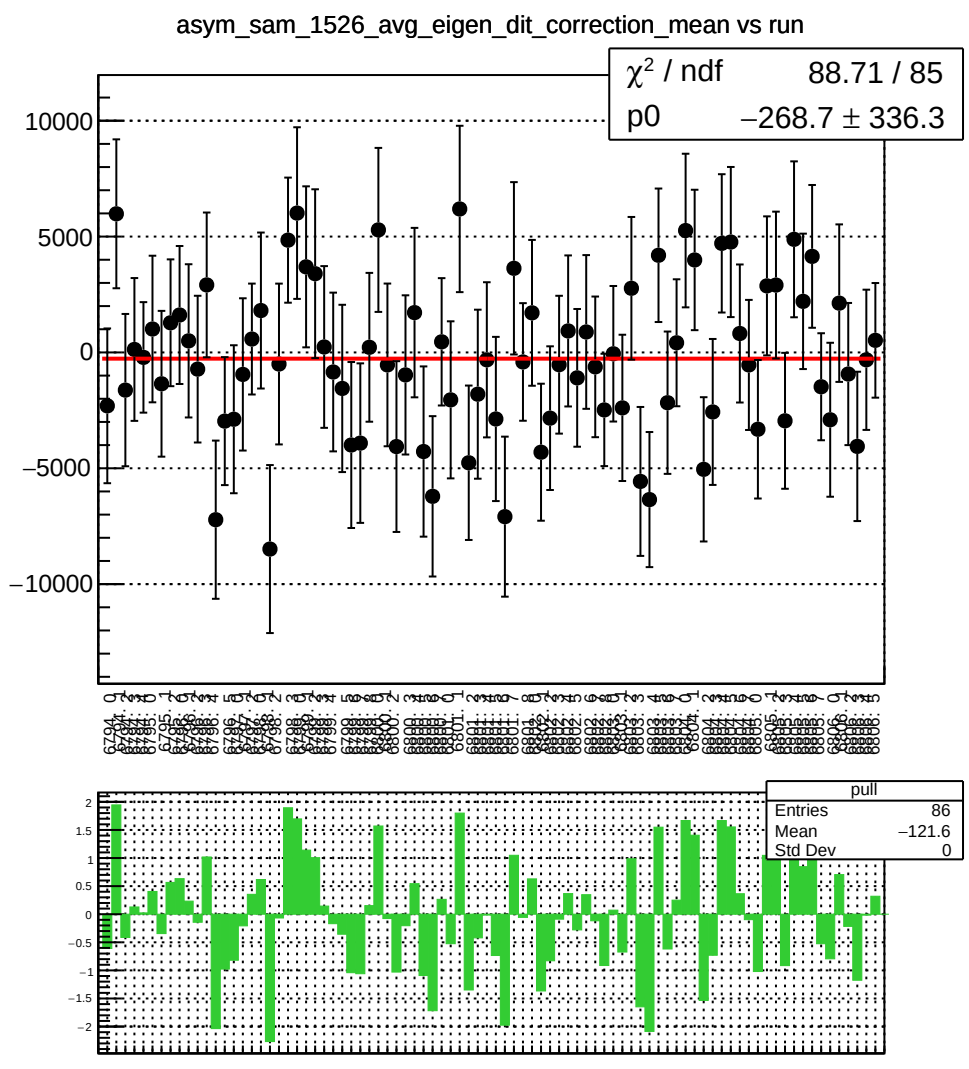

pull1D
Entries 86
Mean −0.00478
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

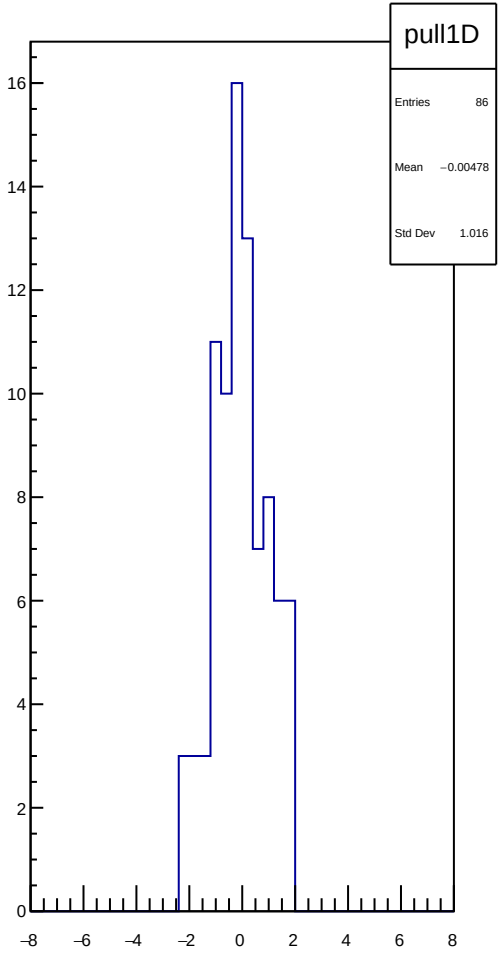

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 7559 / 85
p0 307.7 ± 0.2378
360
340
320
300
280

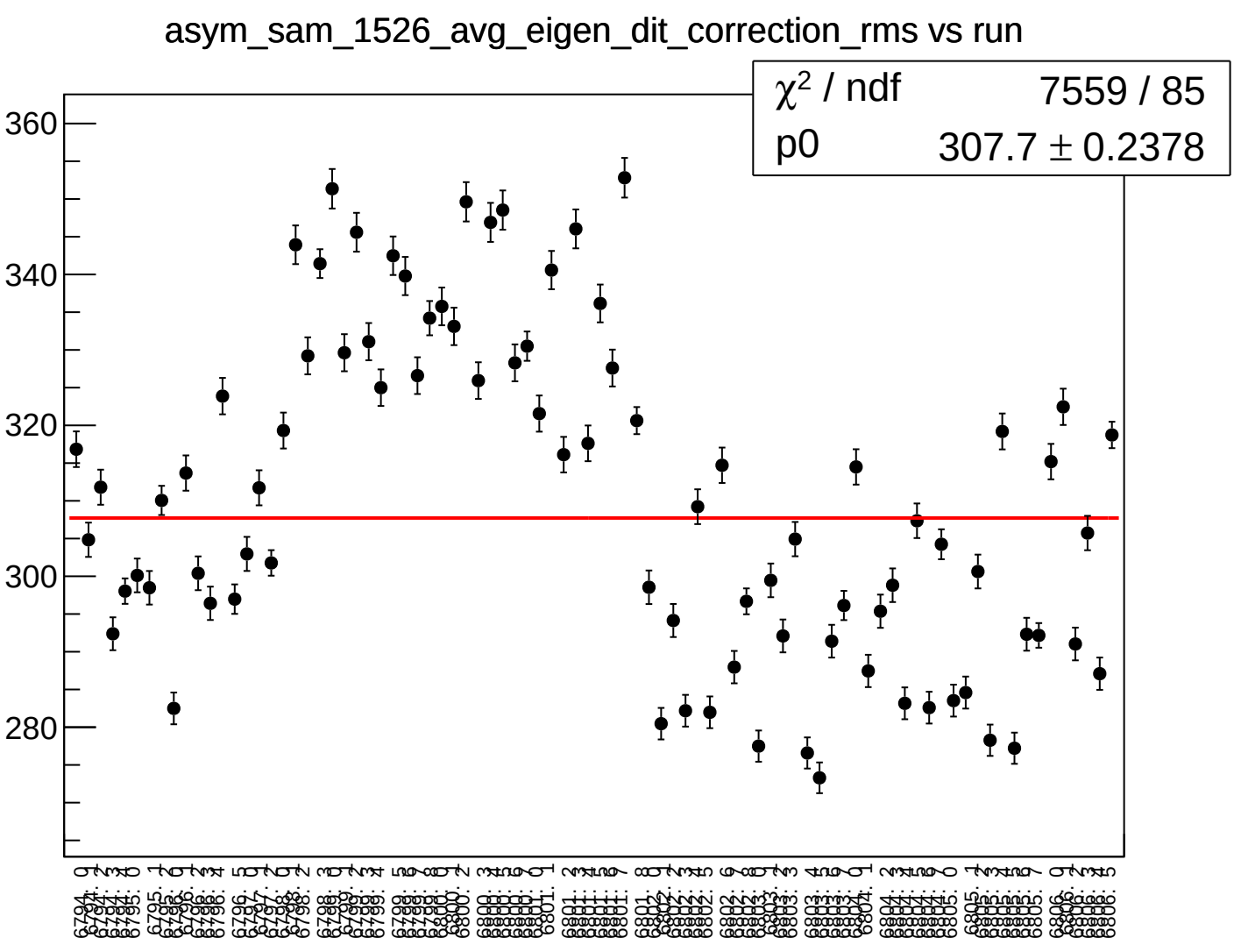

eigen_dit_asym_sam_1526_avg_mean vs run
χ^2 / ndf 71.84 / 85
p0 −184.1± 72.44
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 86
Mean −257
Std Dev 0
2
1
0
−1
−2

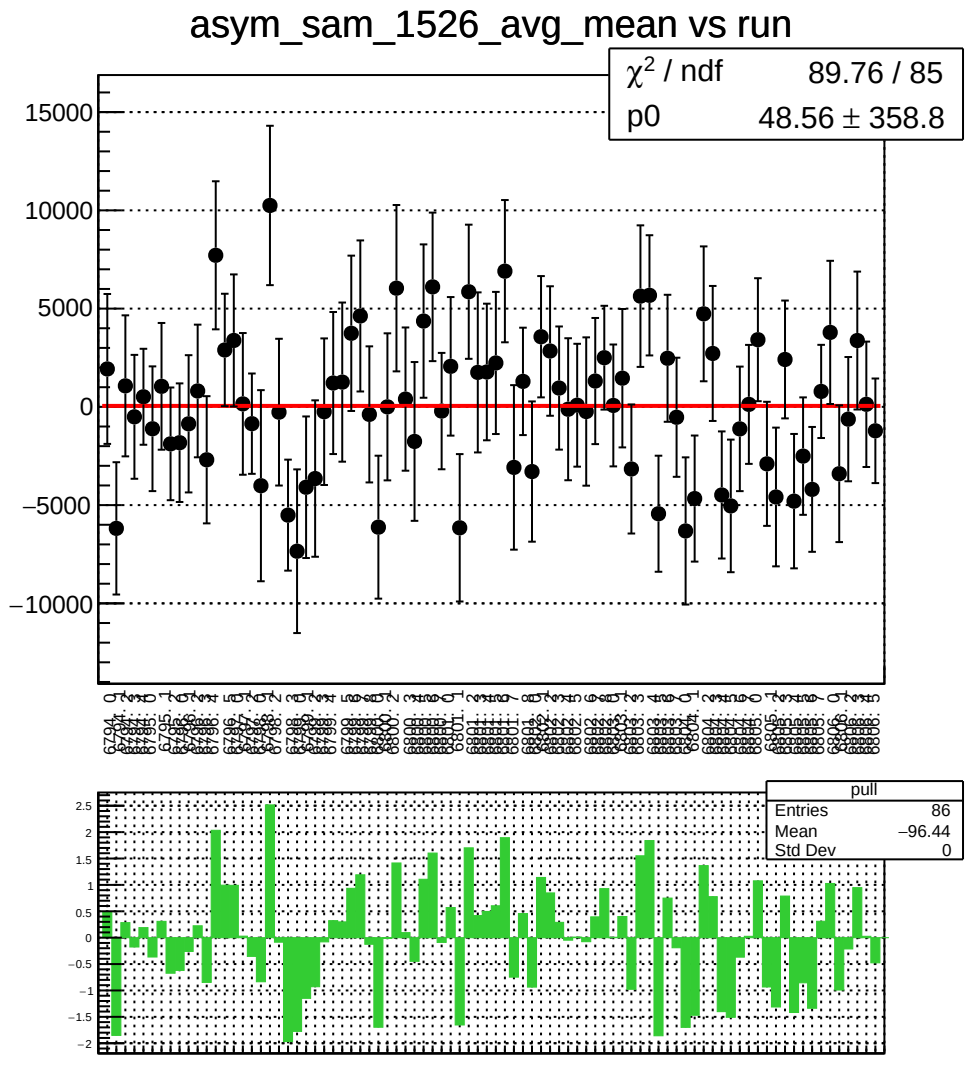

pull1D
Entries 86
Mean 0.01309
Std Dev 0.9139
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

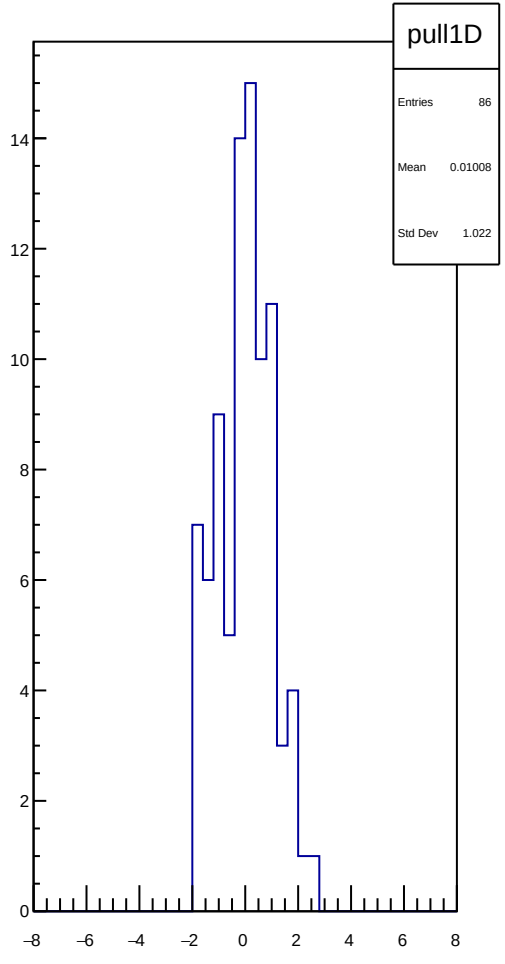

eigen_dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 3.243e+04 / 85
p0 65.79 ± 0.05122
240
220
200
180
160
140
120
100
80
60
40

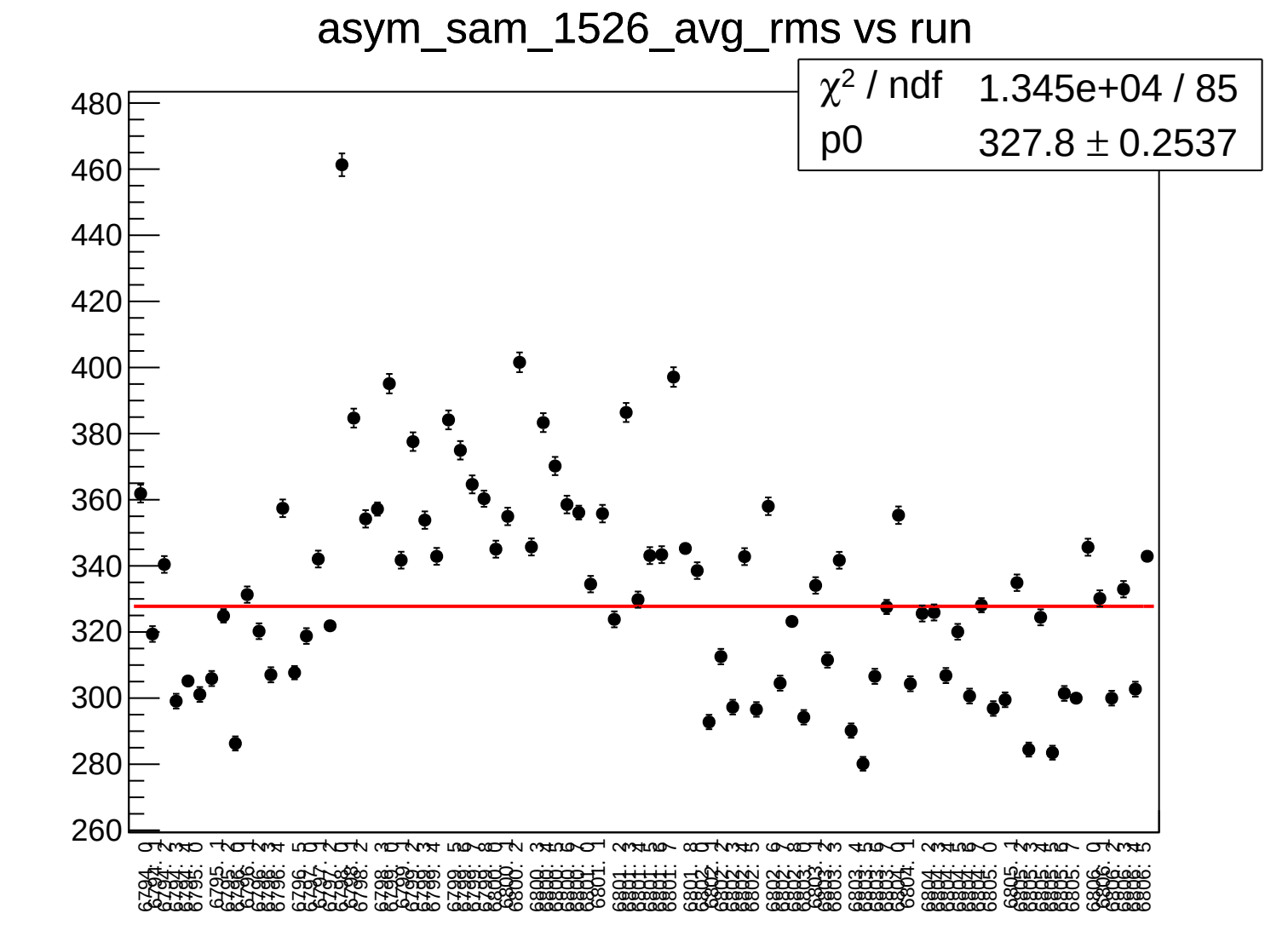

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.71 / 85
p0 −268.7 ± 336.3
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −121.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

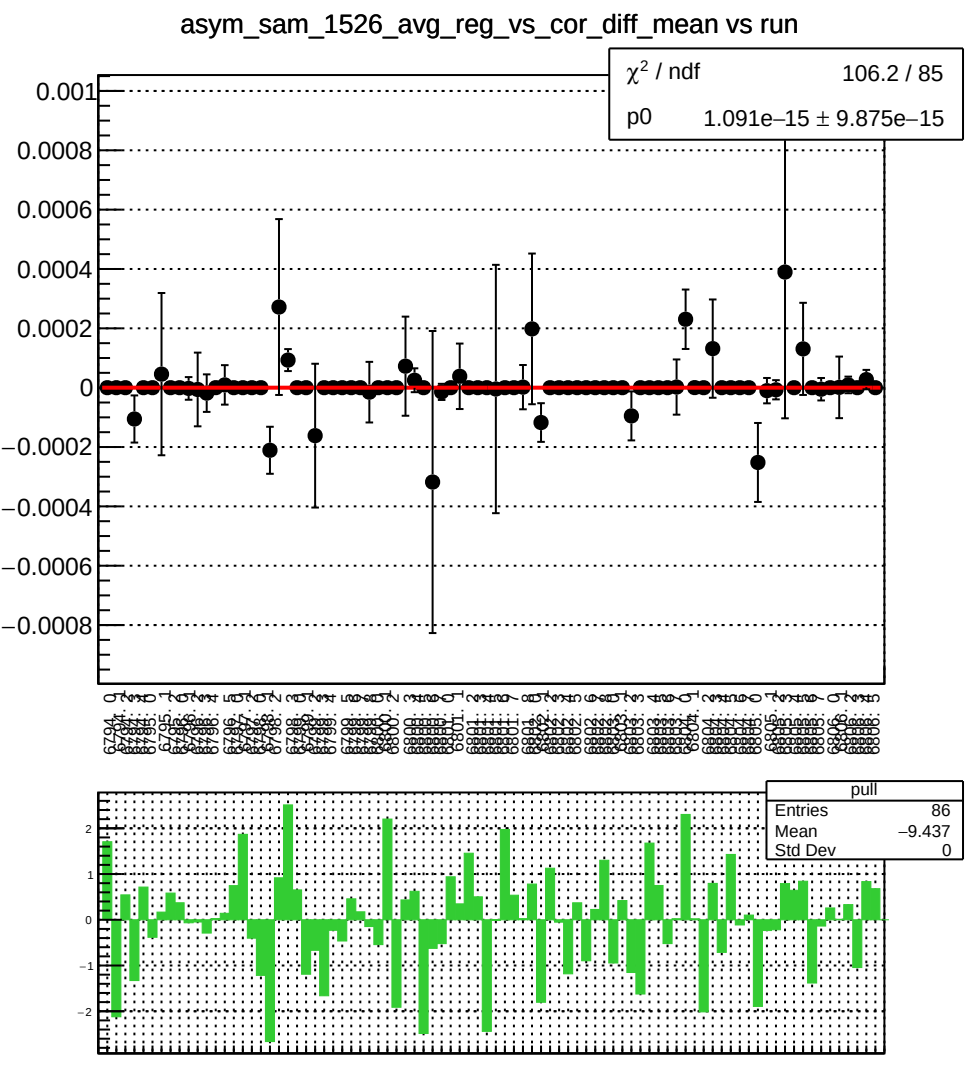

pull1D
Entries 86
Mean −0.00478
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

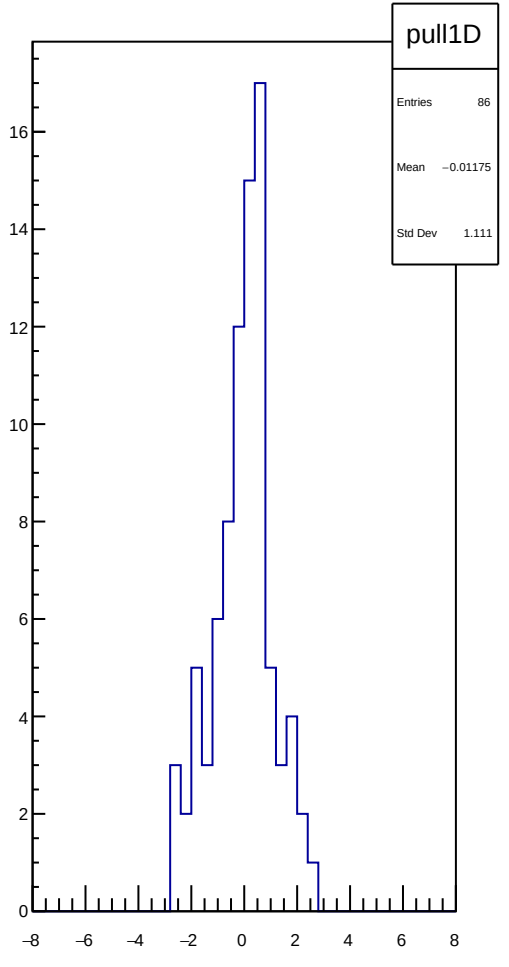

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 7559 / 85
p0 307.7 ± 0.2378
360
340
320
300
280

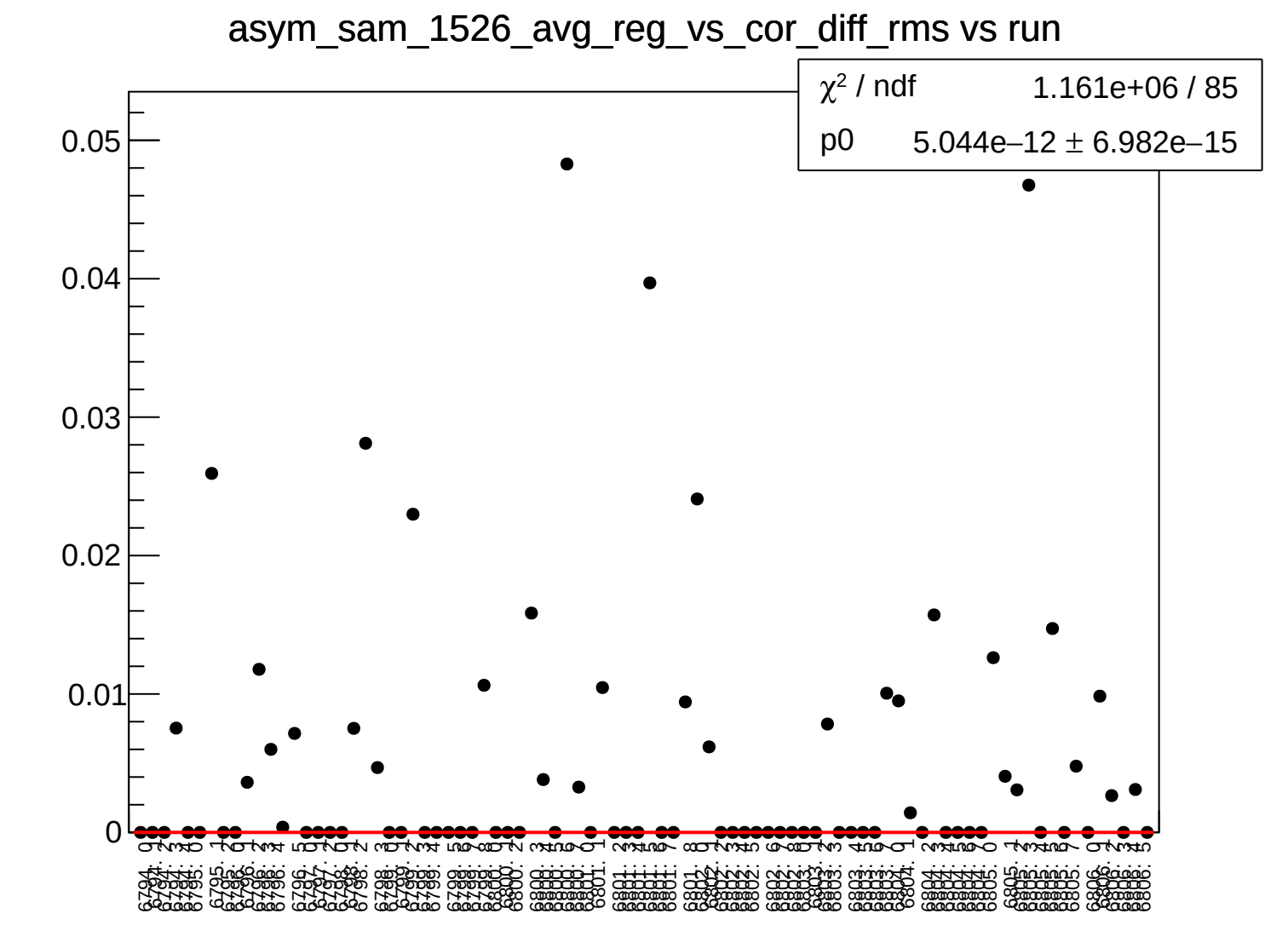

asym_sam_1526_avg_mean vs run
χ² / ndf 89.76 / 85
p0 48.56 ± 358.8
15000
10000
5000
0
−5000
−10000
pull
Entries 86
Mean −96.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

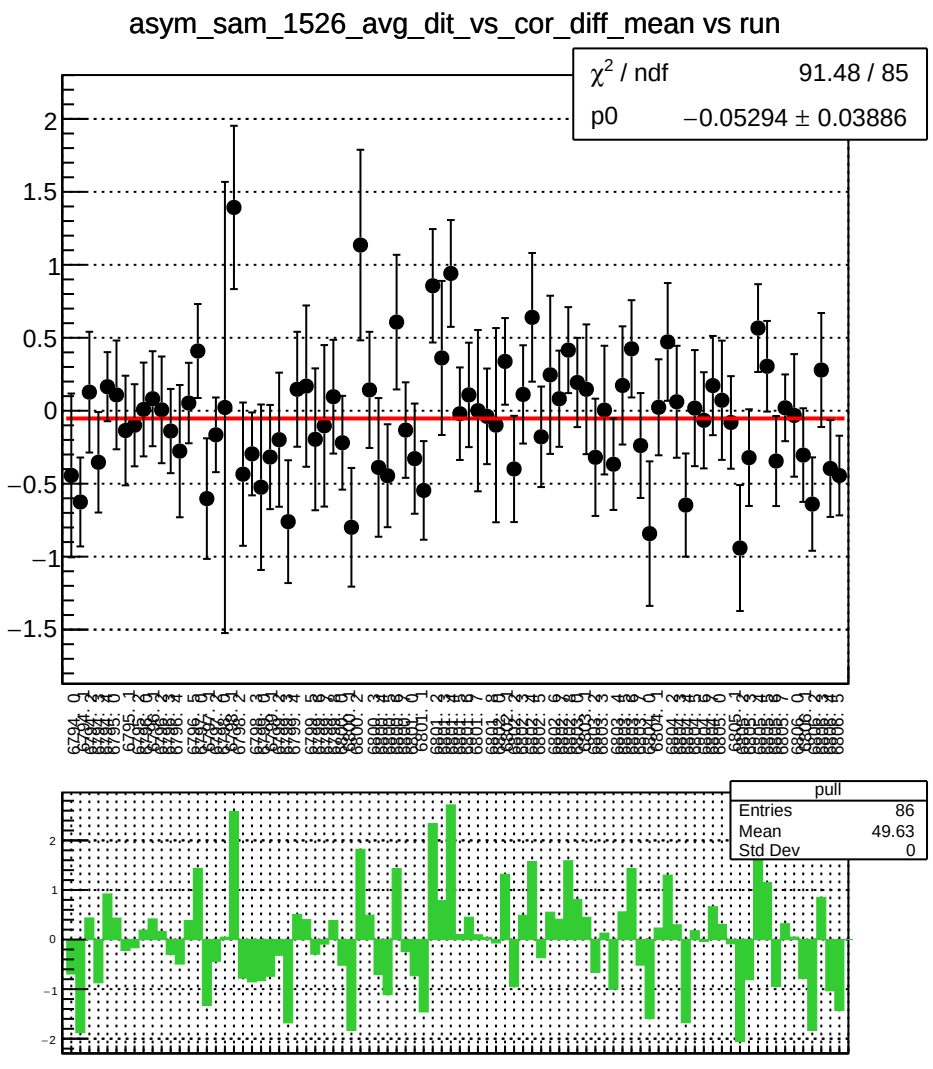

pull1D
Entries 86
Mean 0.01008
Std Dev 1.022
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

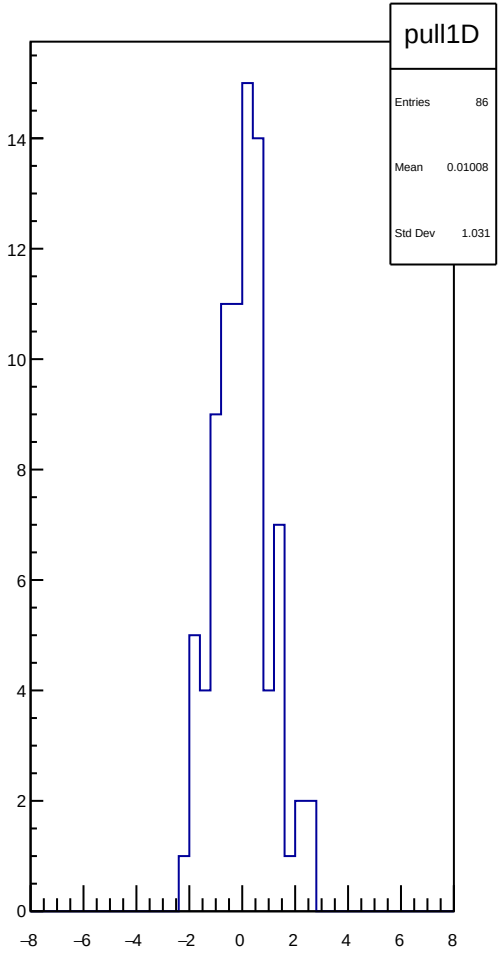

asym_sam_1526_avg_rms vs run
χ² / ndf 1.345e+04 / 85
p0 327.8 ± 0.2537
480
460
440
420
400
380
360
340
320
300
280
260

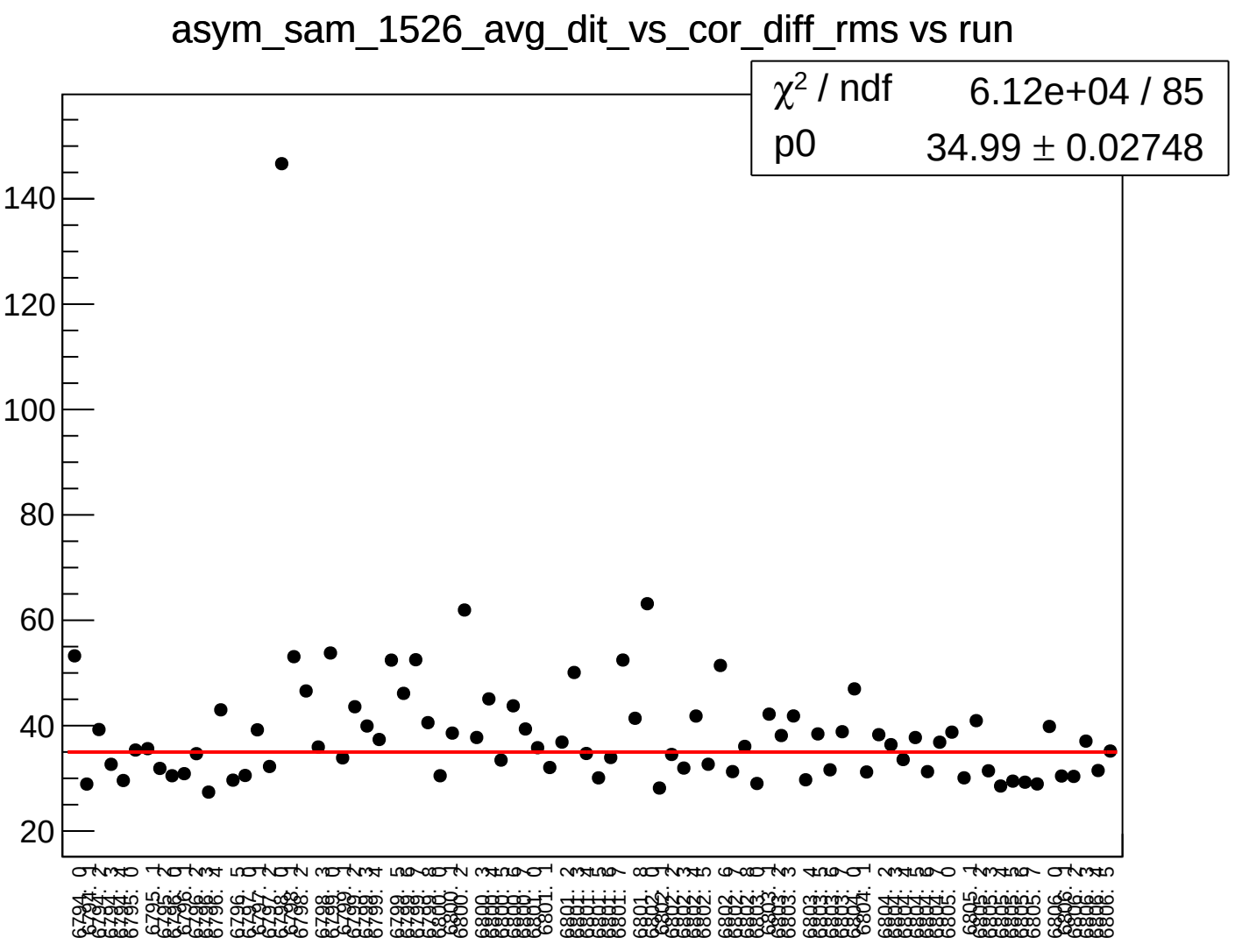

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 85
p0 1.091e−15 ± 9.875e−15
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 86
Mean −9.437
Std Dev 0
2
1
0
−1
−2

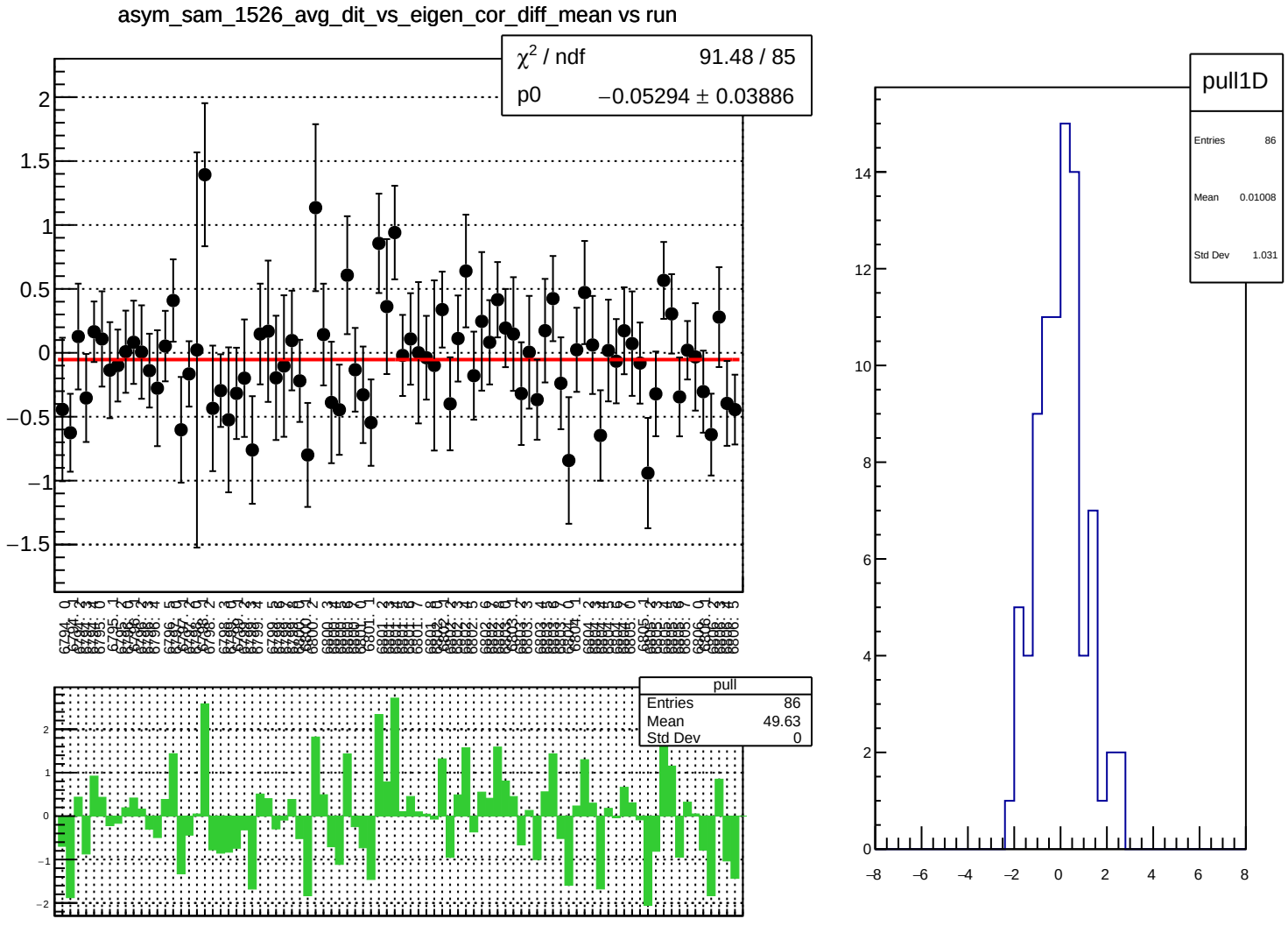

pull1D
Entries 86
Mean −0.01175
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

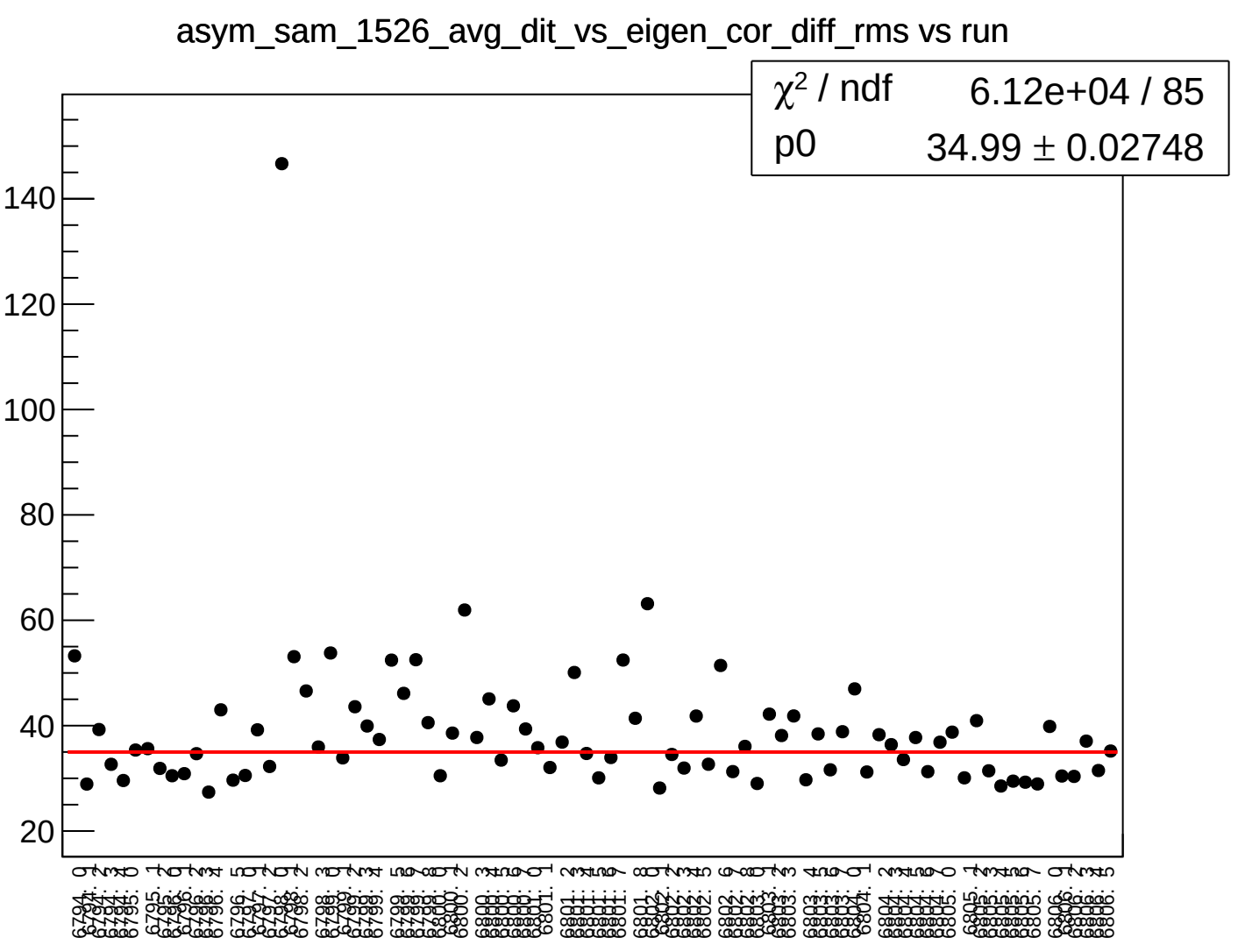

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.161e+06 / 85
p0 5.044e−12 ± 6.982e−15
0.05
0.04
0.03
0.02
0.01
0

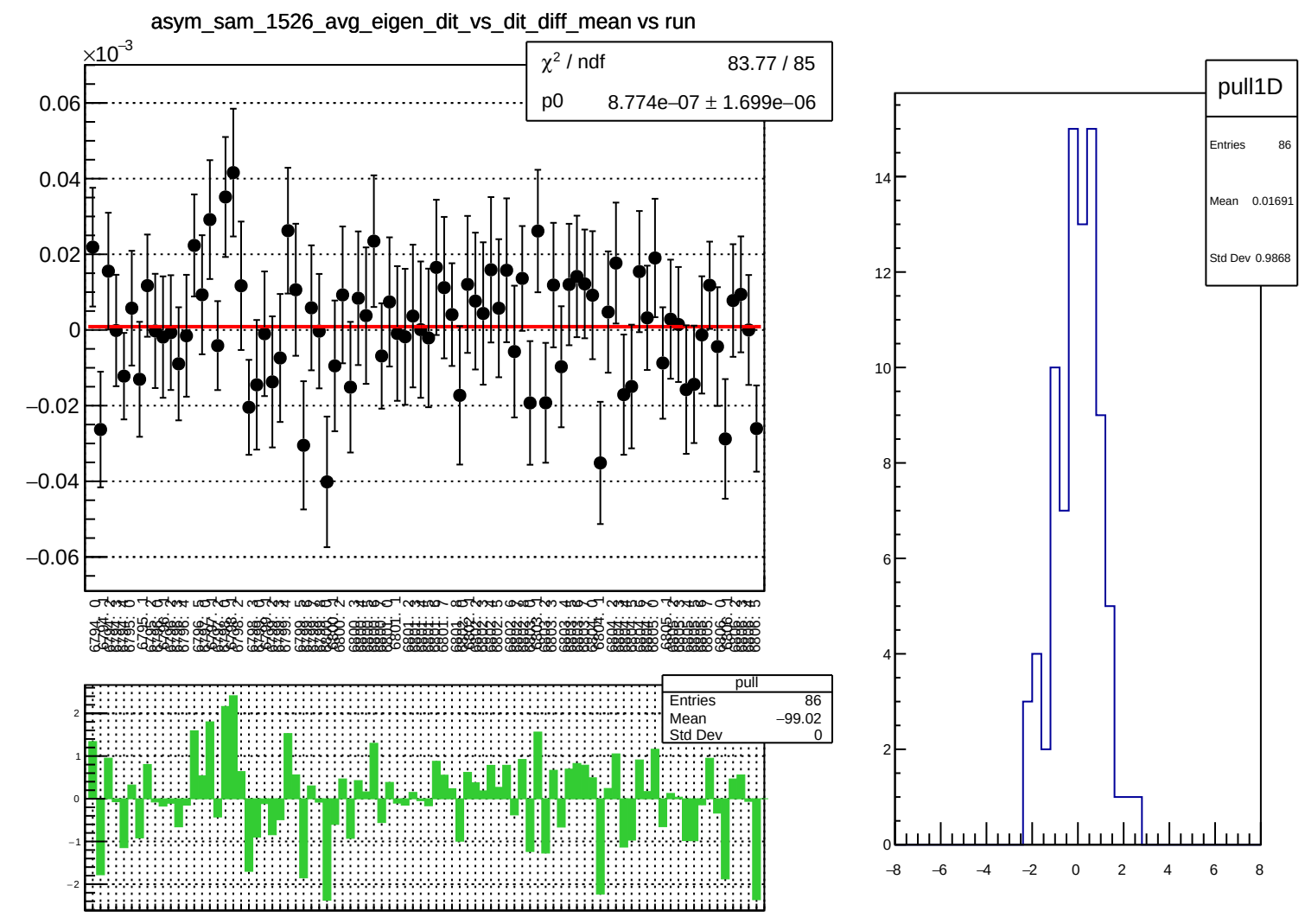

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.05294 ± 0.03886
pull
Entries 86
Mean 49.63
Std Dev 0

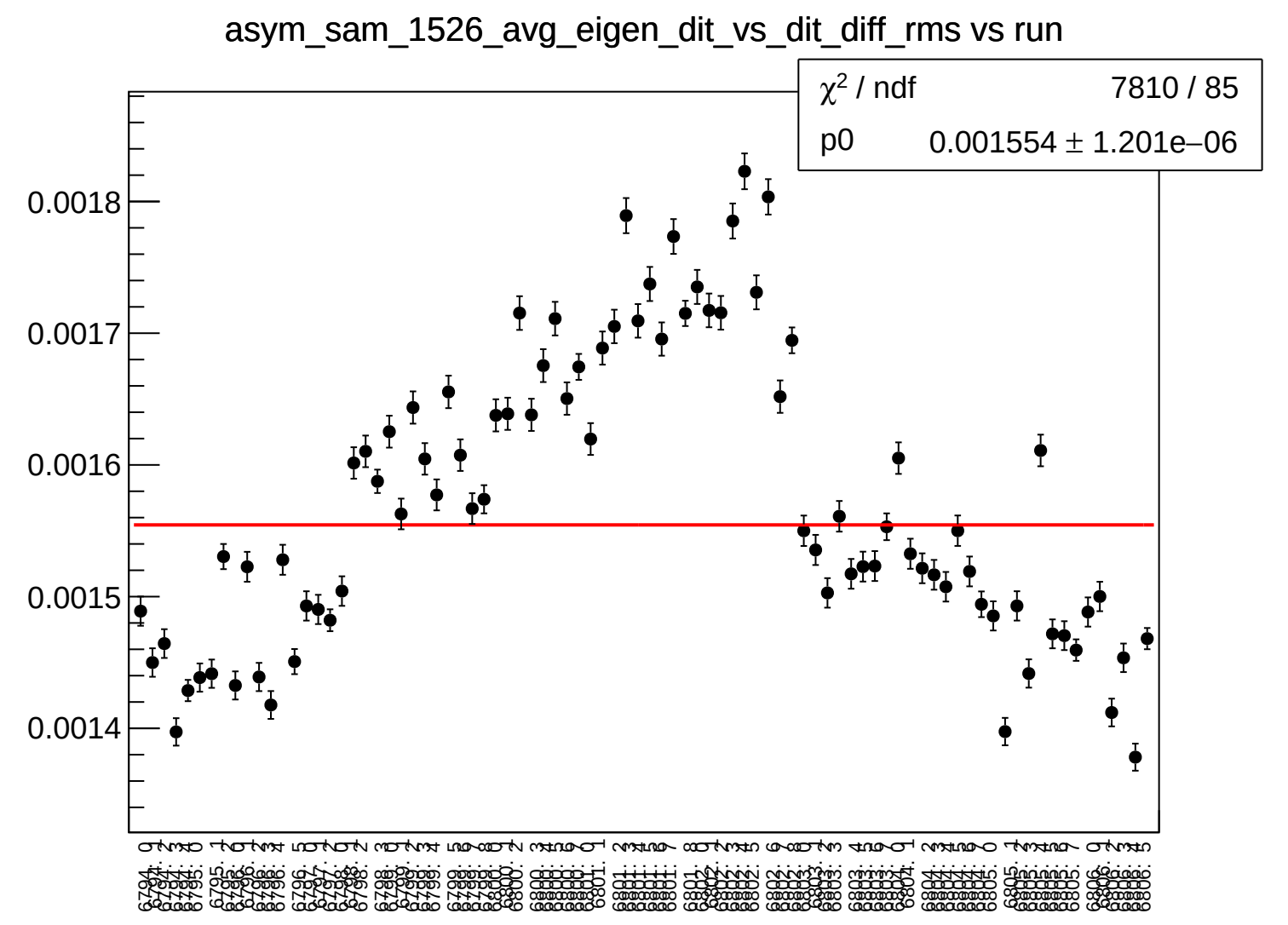

pull1D
Entries 86
Mean 0.01008
Std Dev 1.031

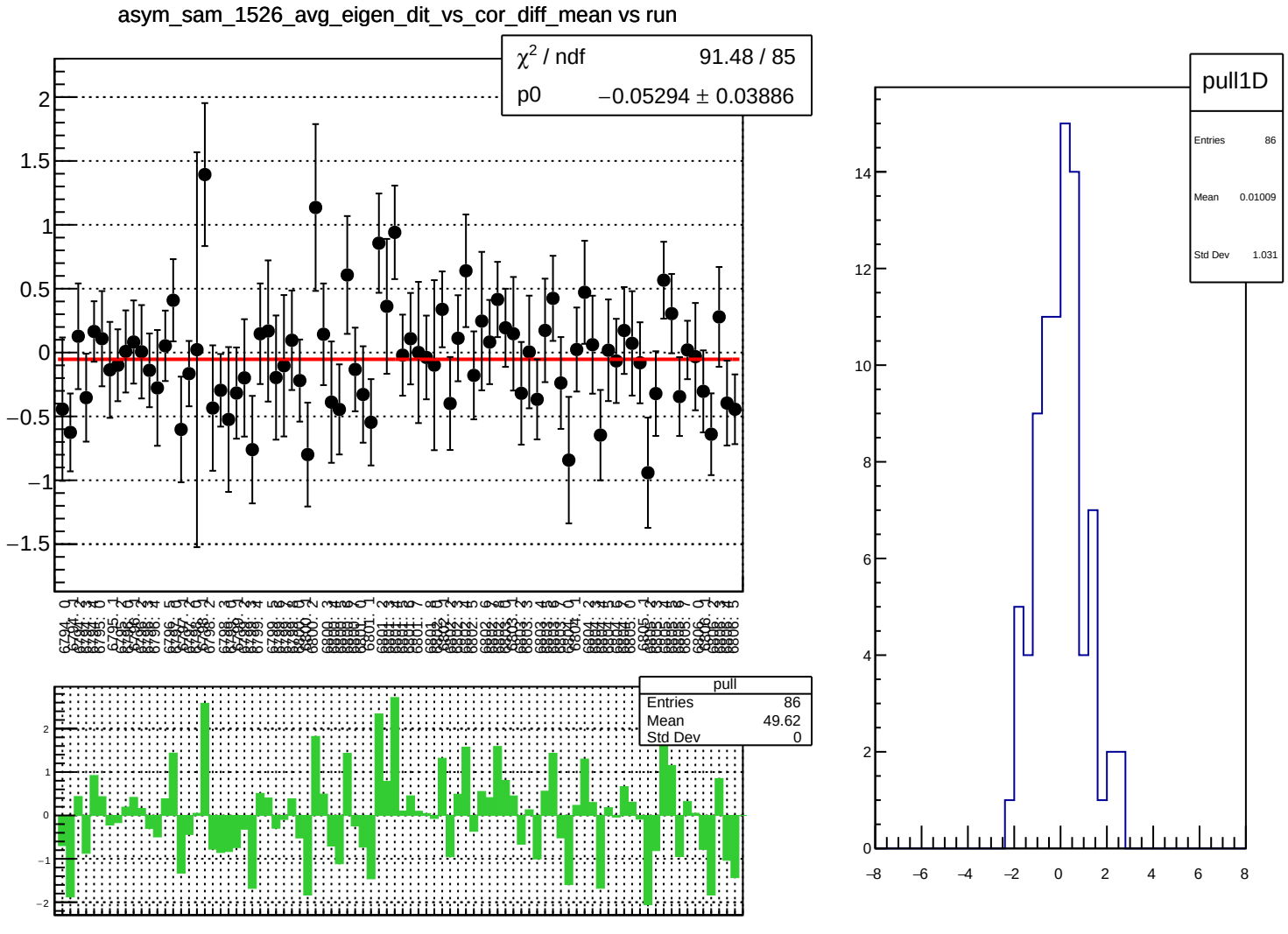

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 34.99 ± 0.02748
140
120
100
80
60
40
20

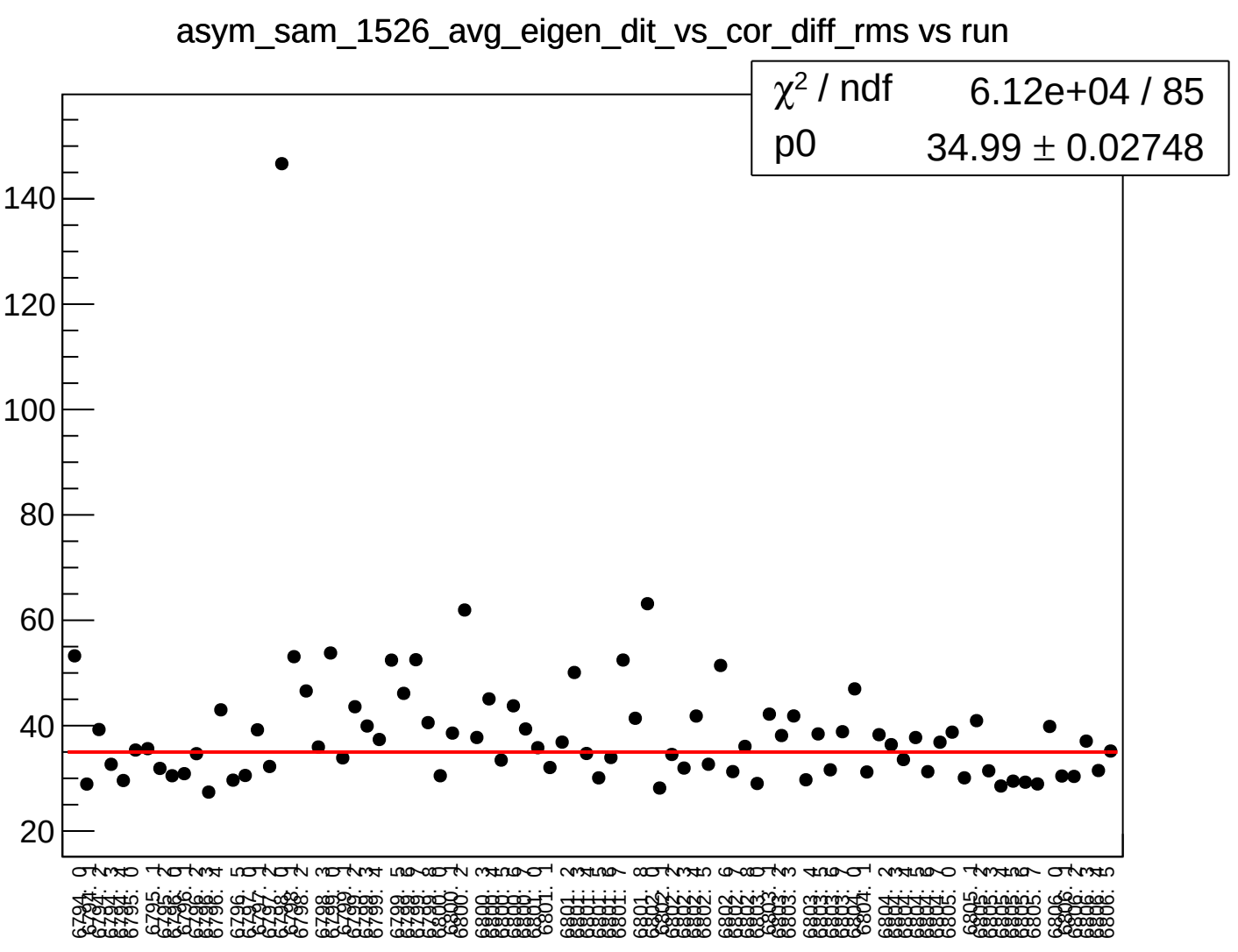

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.05294 ± 0.03886
pull
Entries 86
Mean 49.63
Std Dev 0
pull1D
Entries 86
Mean 0.01008
Std Dev 1.031

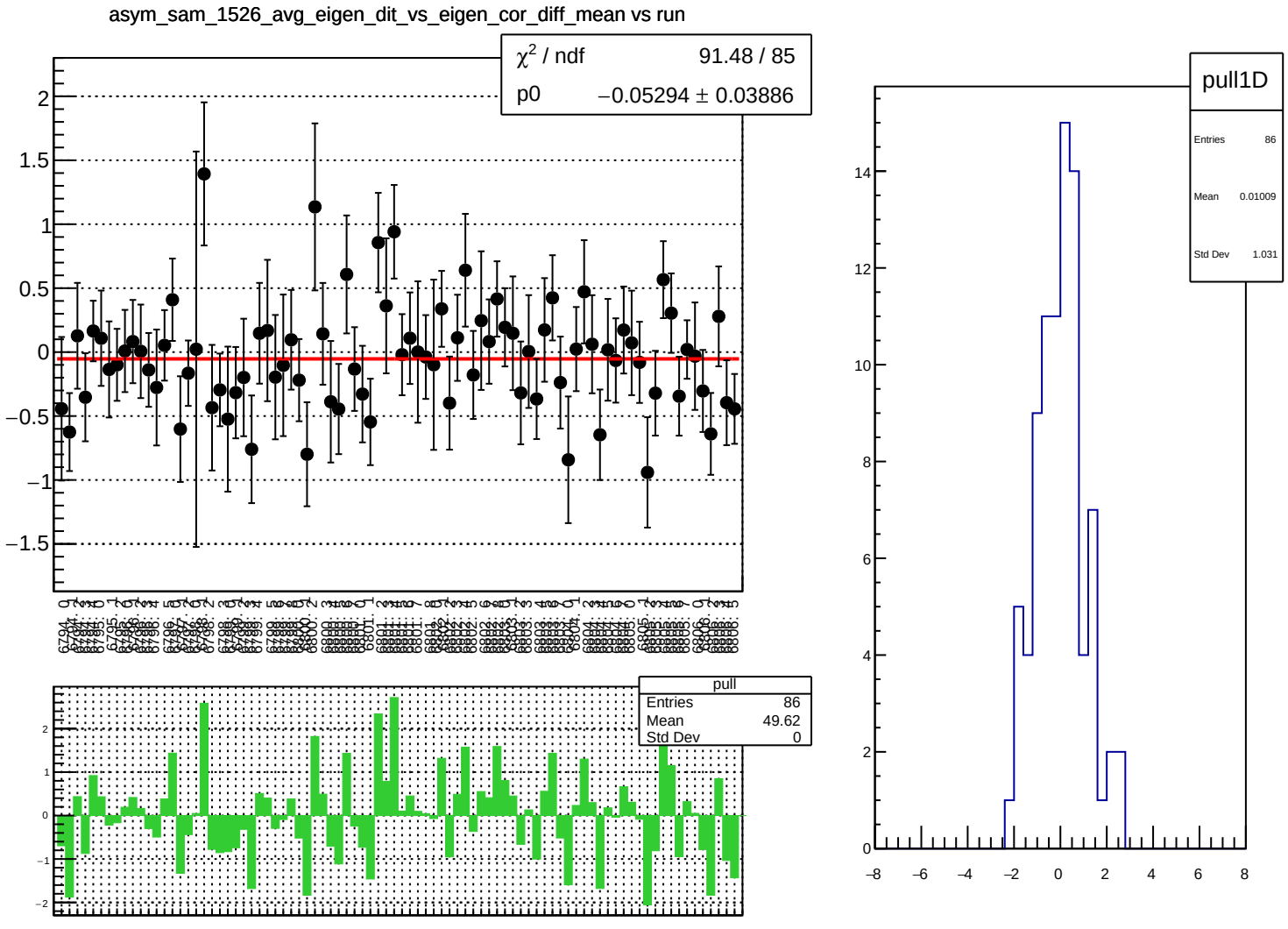

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 34.99 ± 0.02748
140
120
100
80
60
40
20

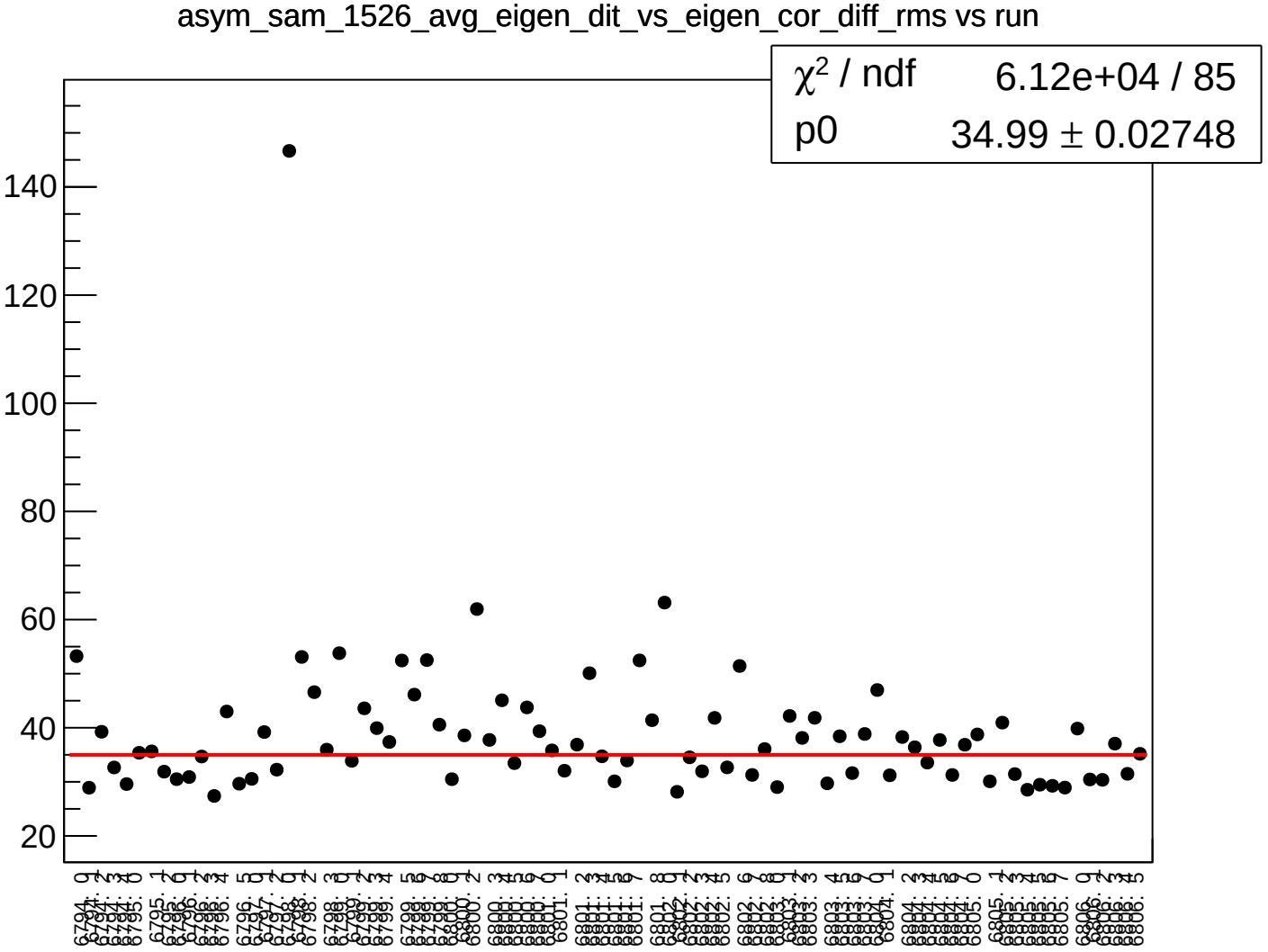

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.77 / 85
p0 8.774e−07 ± 1.699e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −99.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01691
Std Dev 0.9868
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

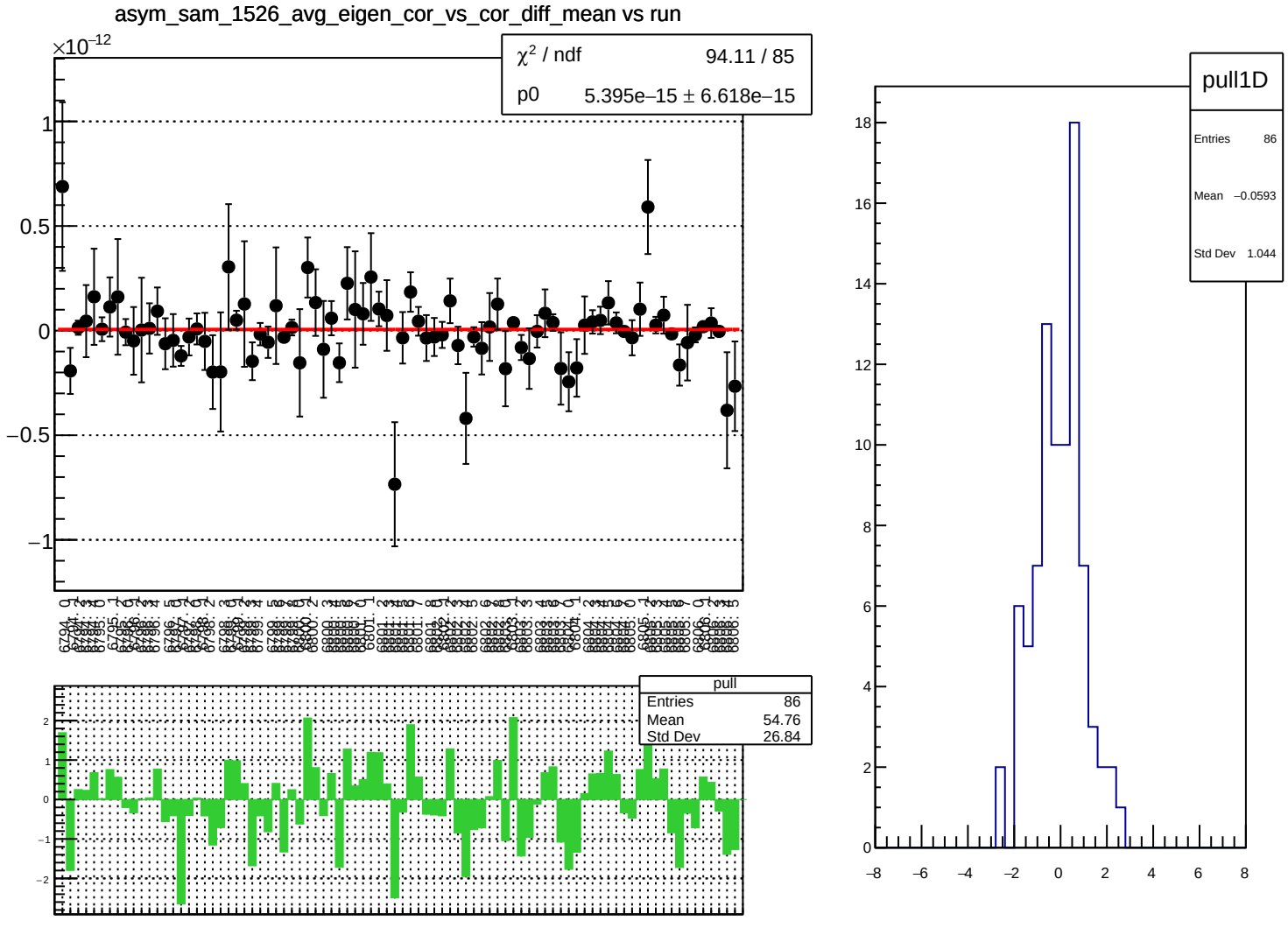

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7810 / 85
p0 0.001554 ± 1.201e−06
0.0018
0.0017
0.0016
0.0015
0.0014

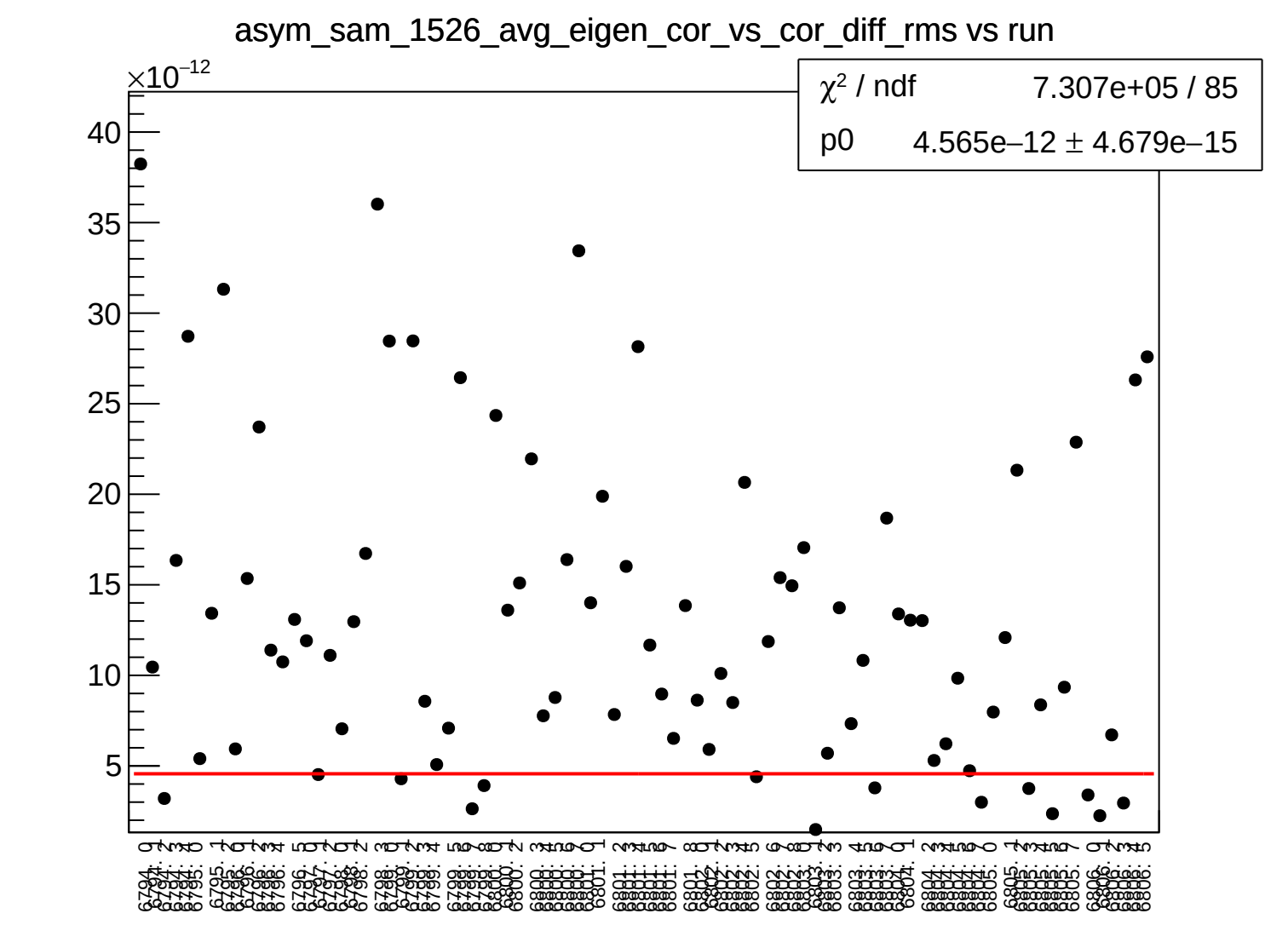

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.05294 ± 0.03886
pull
Entries 86
Mean 49.62
Std Dev 0
pull1D
Entries 86
Mean 0.01009
Std Dev 1.031

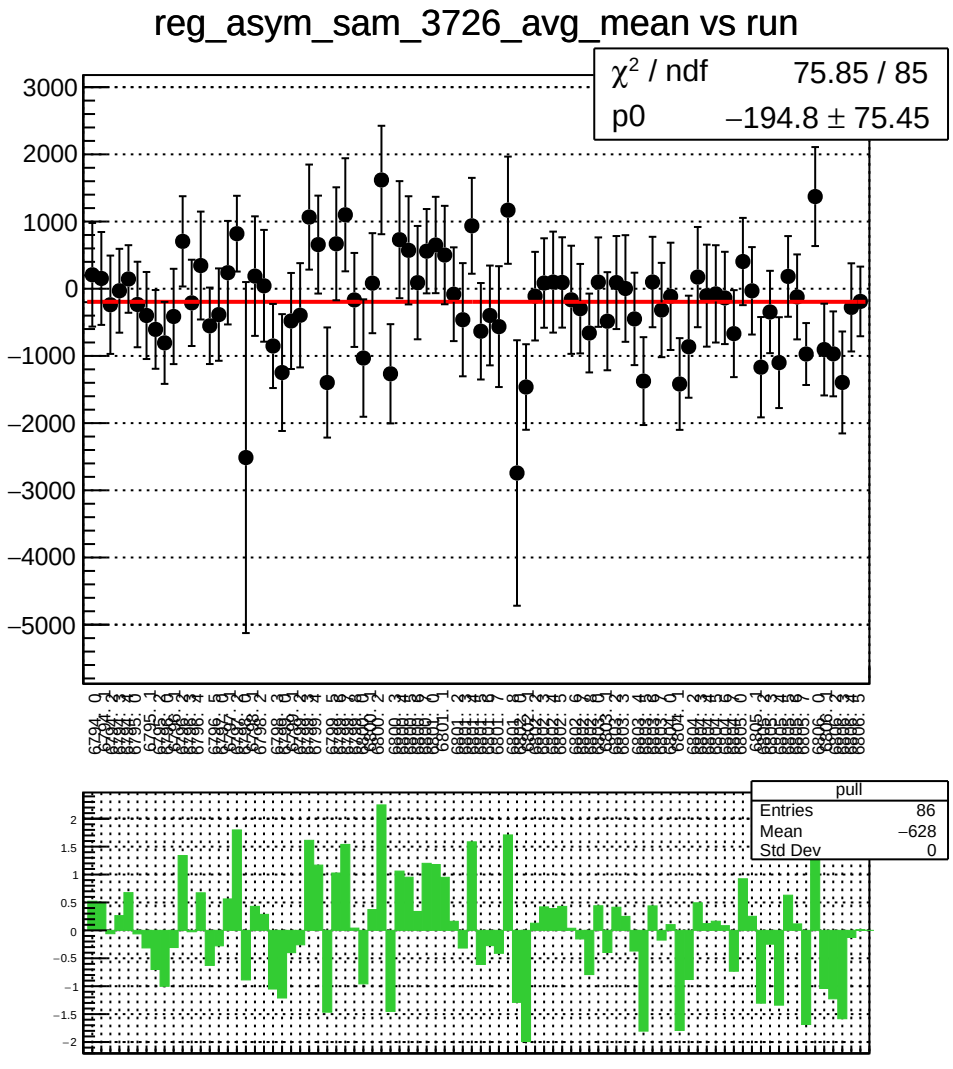

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 34.99 ± 0.02748
140
120
100
80
60
40
20

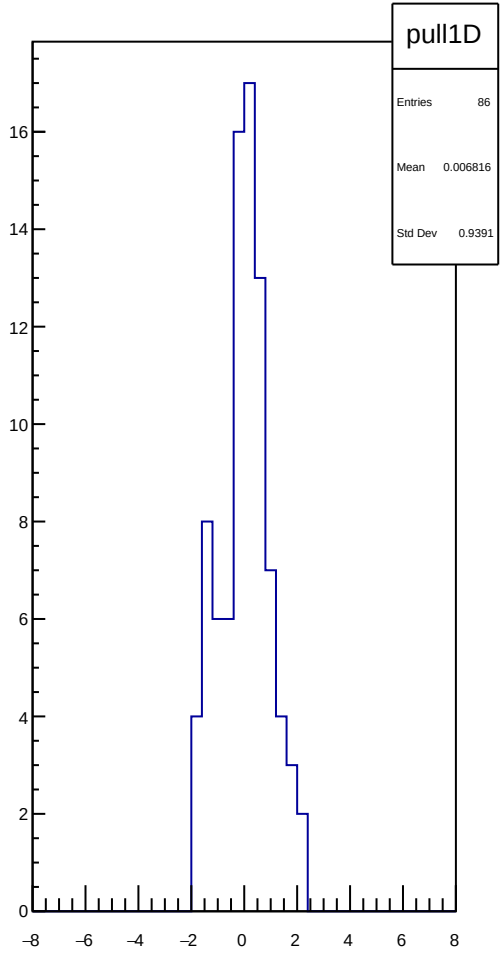

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.48 / 85
p0 −0.05294 ± 0.03886
pull
Entries 86
Mean 49.62
Std Dev 0
pull1D
Entries 86
Mean 0.01009
Std Dev 1.031

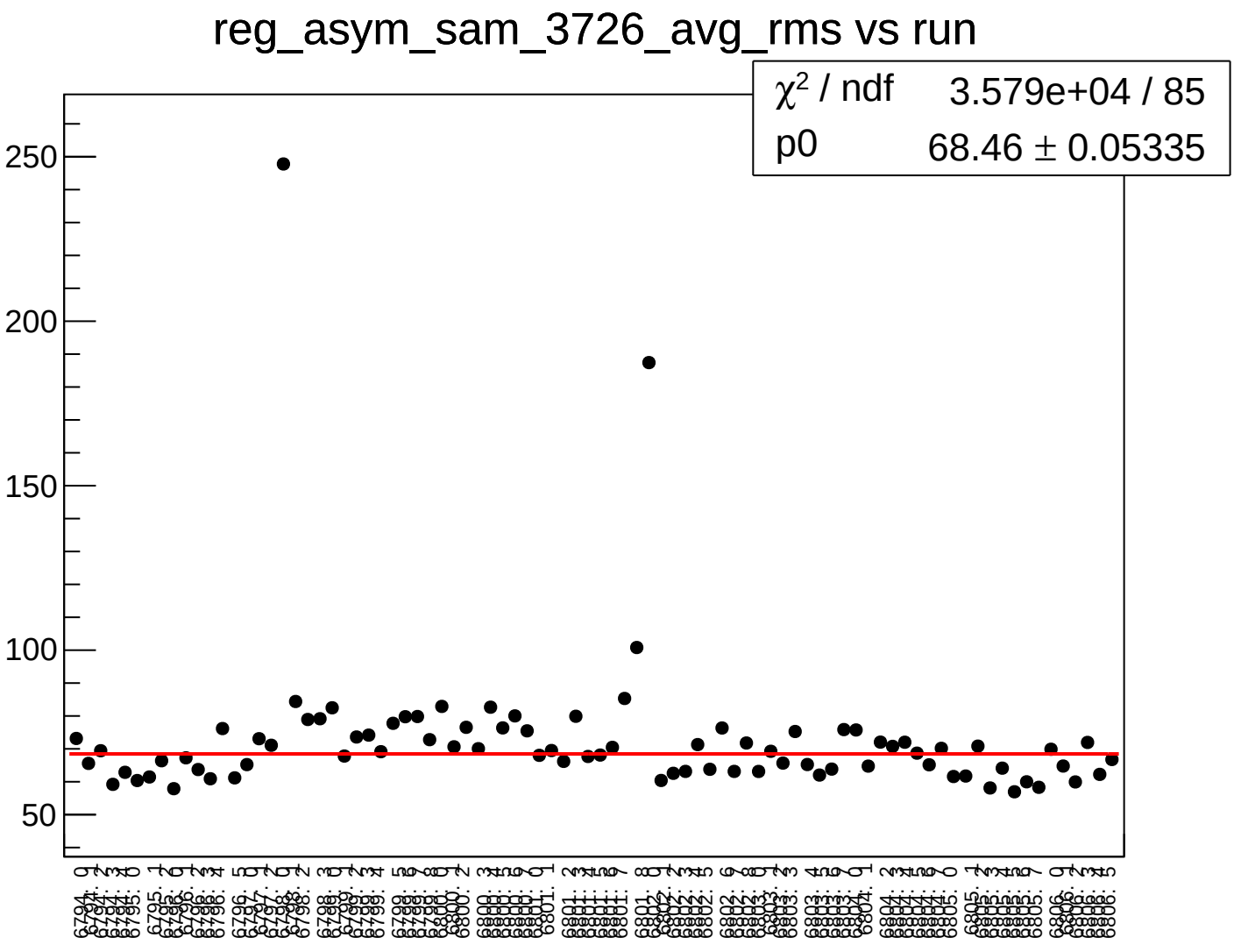

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.12e+04 / 85
p0 34.99 ± 0.02748
140
120
100
80
60
40
20

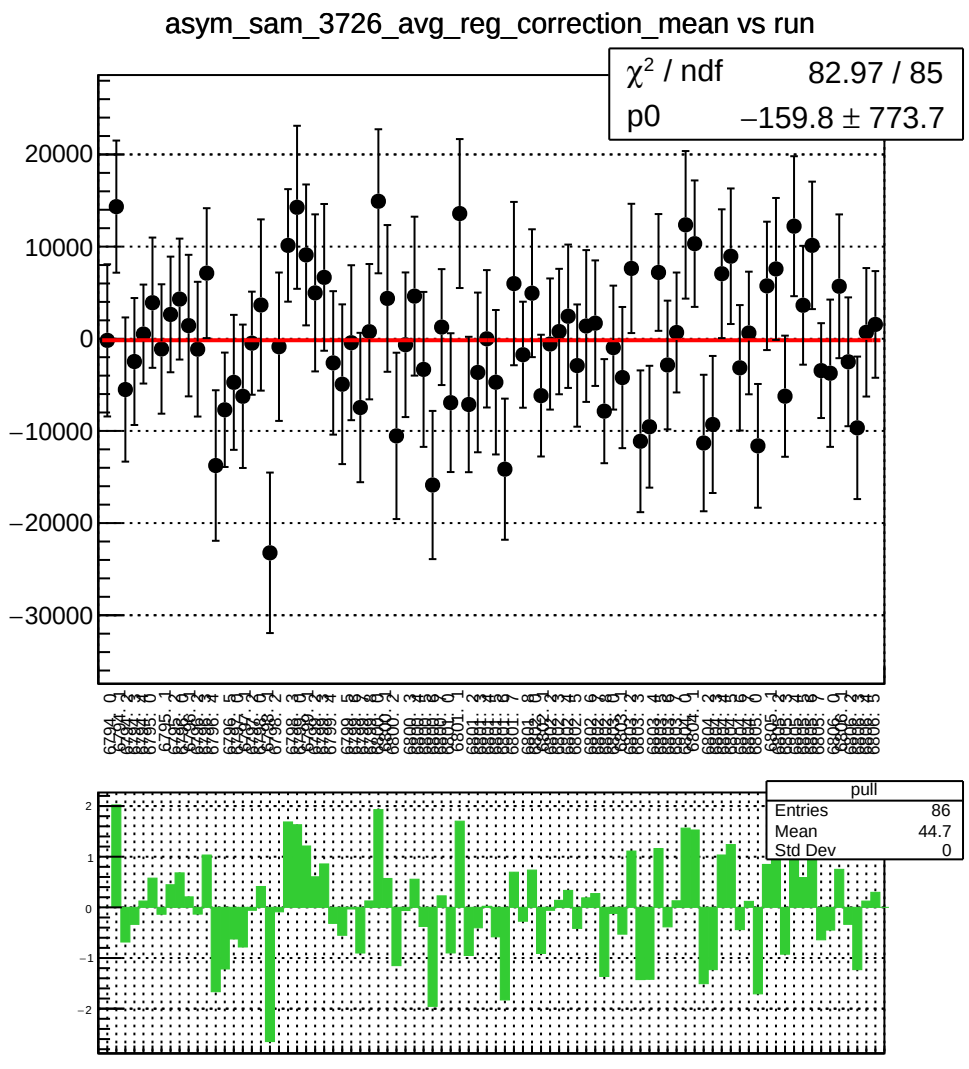

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.11 / 85
p0 5.395e−15 ± 6.618e−15
1
0.5
0
−0.5
−1
pull
Entries 86
Mean 54.76
Std Dev 26.84
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.0593
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

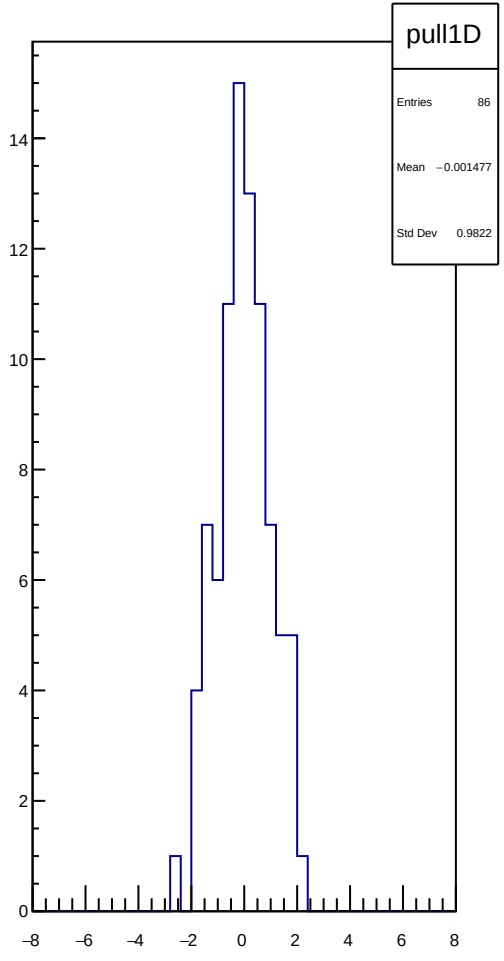

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.307e+05 / 85
p0 4.565e−12 ± 4.679e−15
40
35
30
25
20
15
10
5

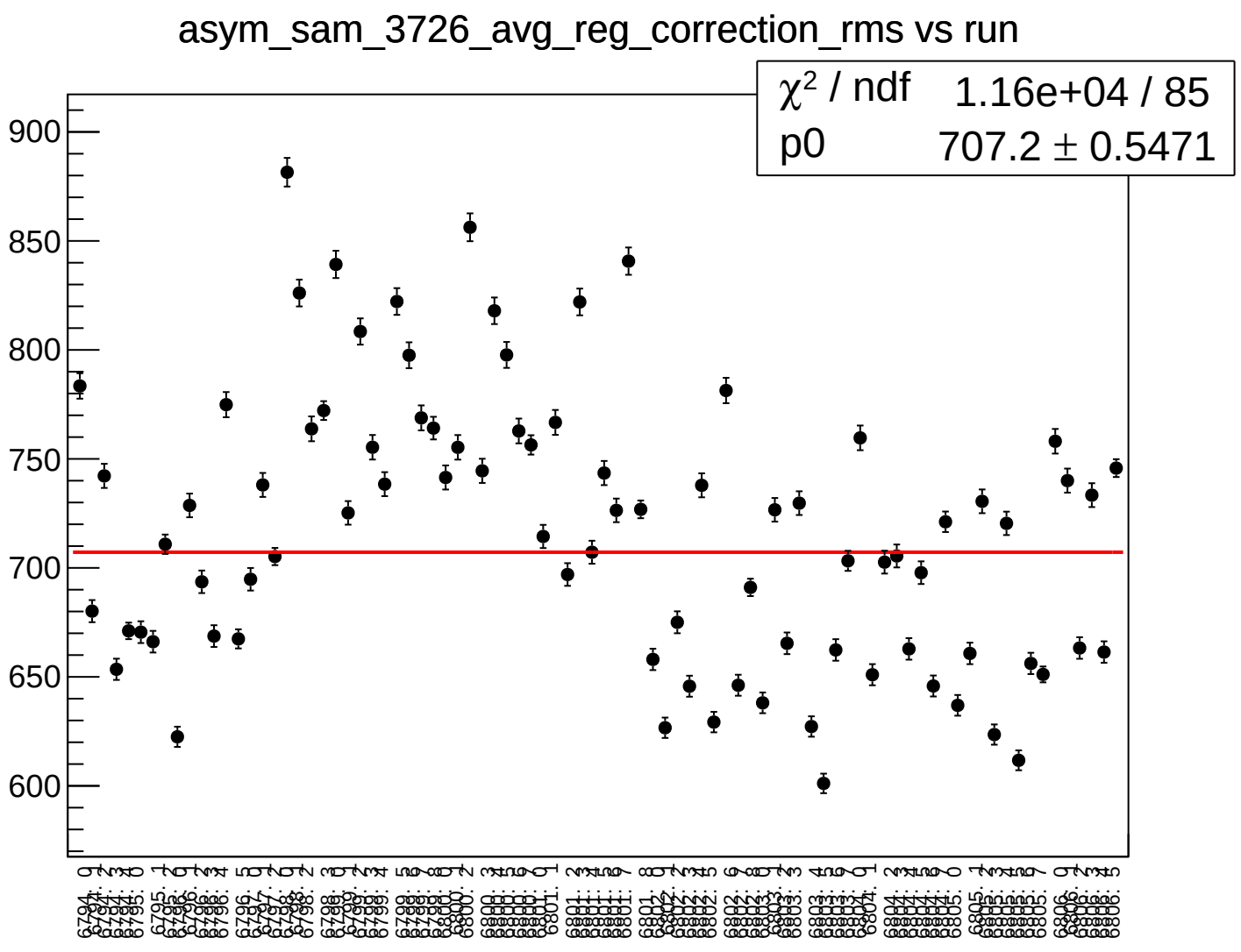

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 75.85 / 85
p0 −194.8 ± 75.45
pull
Entries 86
Mean −628
Std Dev 0

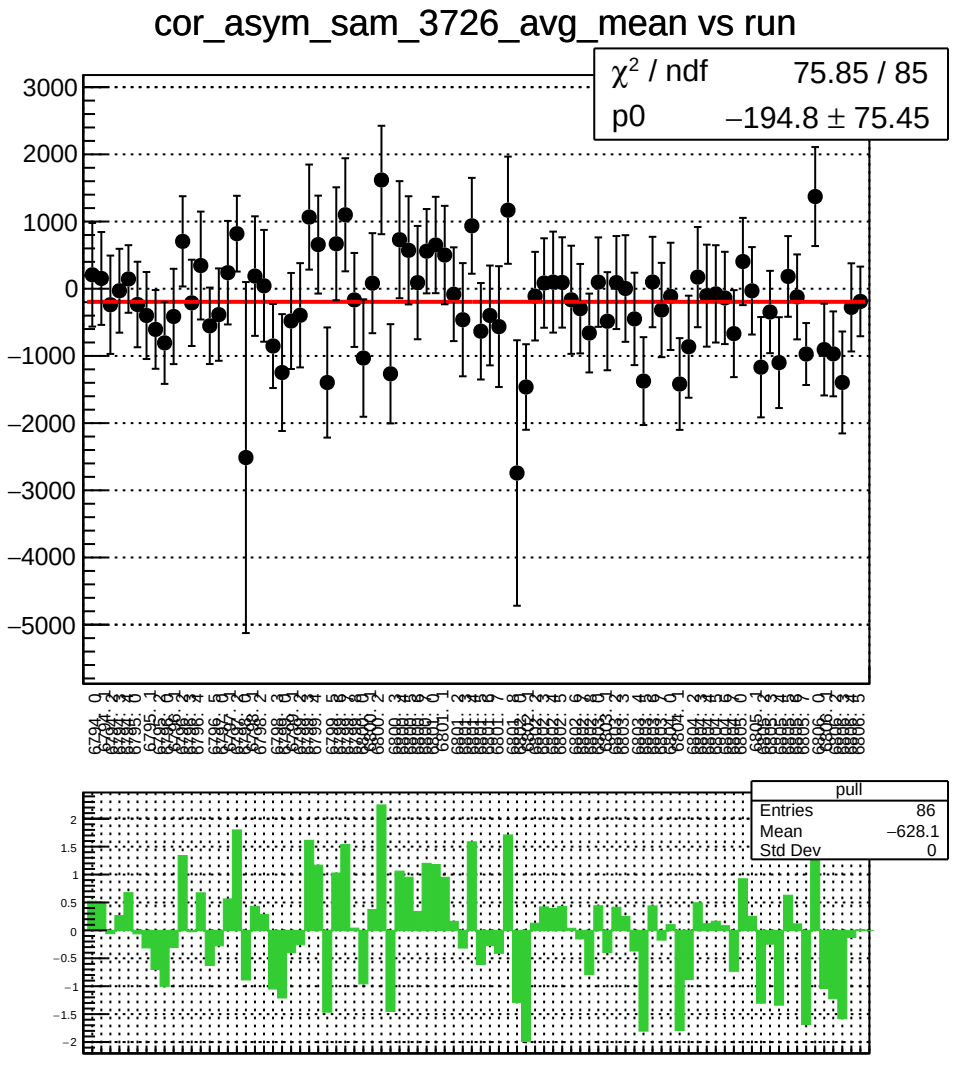

pull1D
Entries 86
Mean 0.006816
Std Dev 0.9391

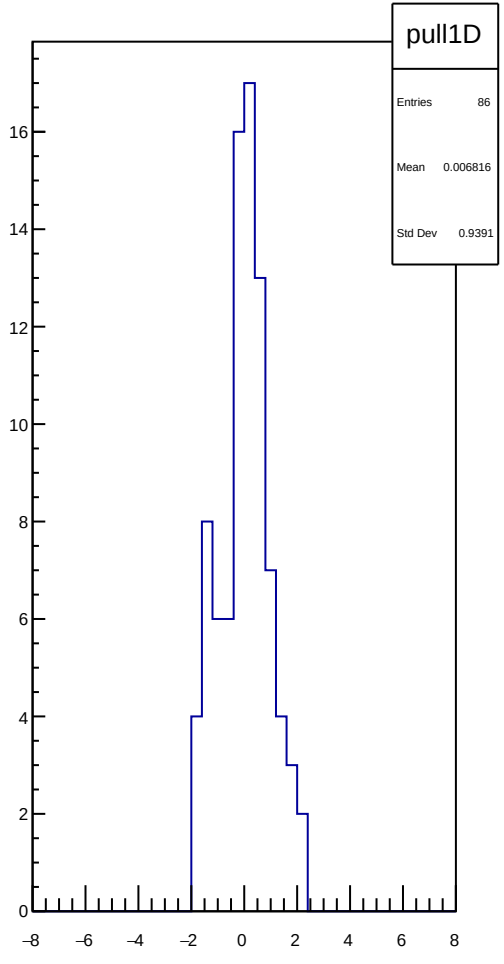

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.579e+04 / 85
p0 68.46 ± 0.05335
250
200
150
100
50

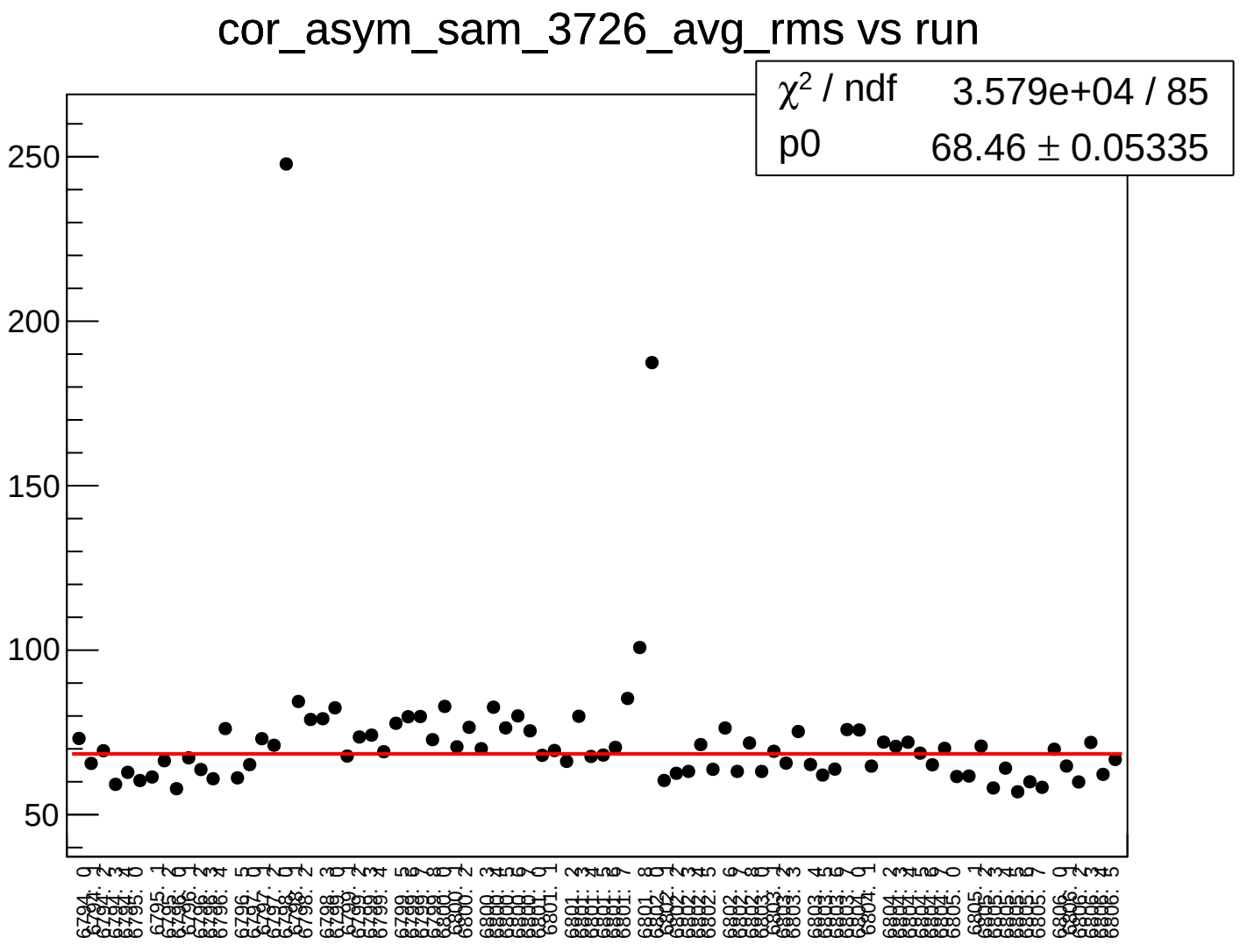

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 82.97 / 85
p0 −159.8 ± 773.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 44.7
Std Dev 0
2
1
0
−1
−2

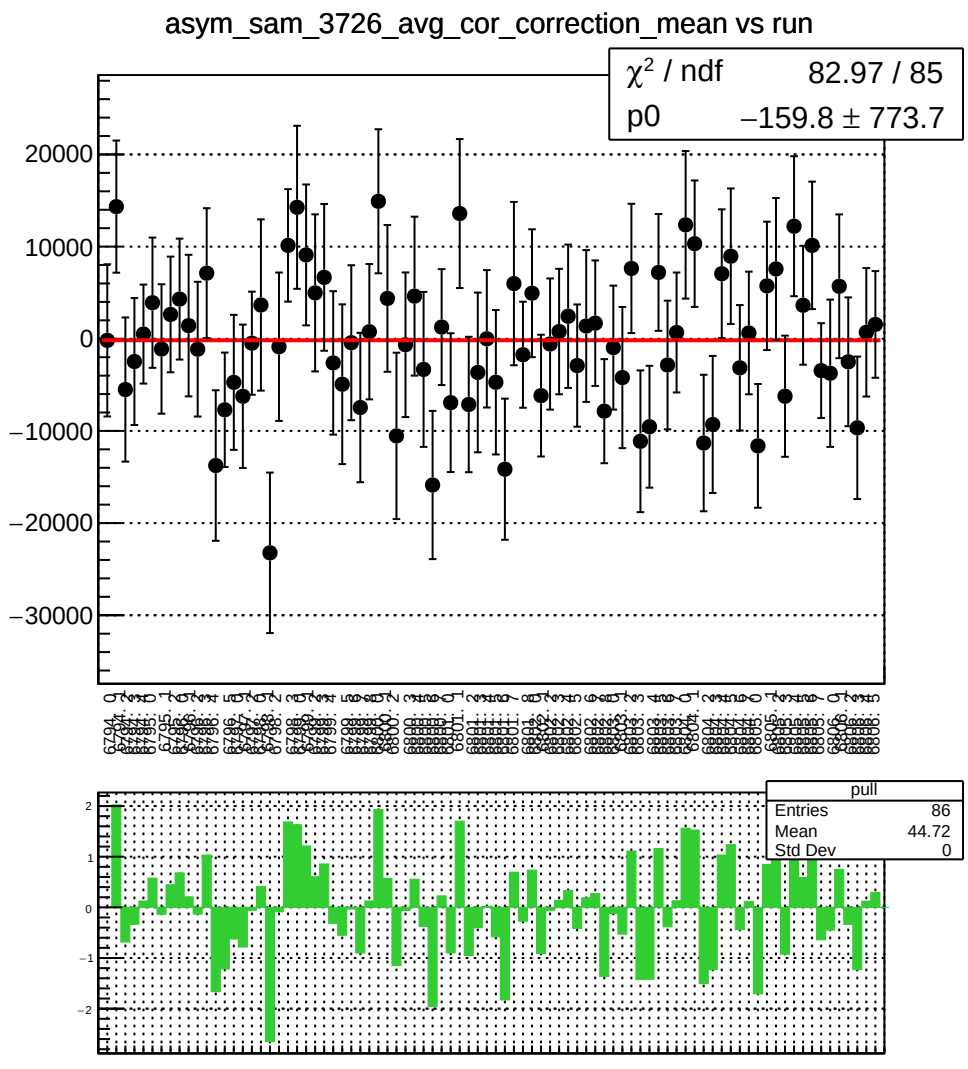

pull1D
Entries 86
Mean −0.001477
Std Dev 0.9822
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

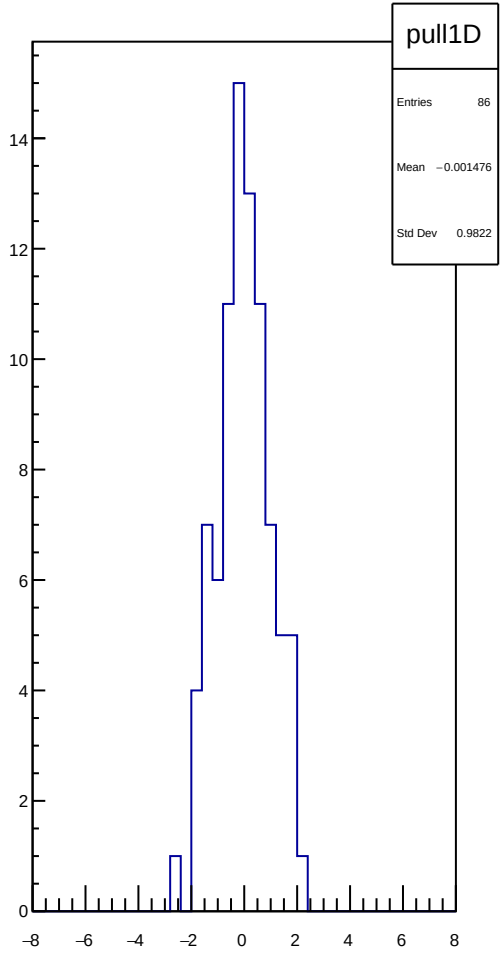

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 1.16e+04 / 85
p0 707.2 ± 0.5471
900
850
800
750
700
650
600

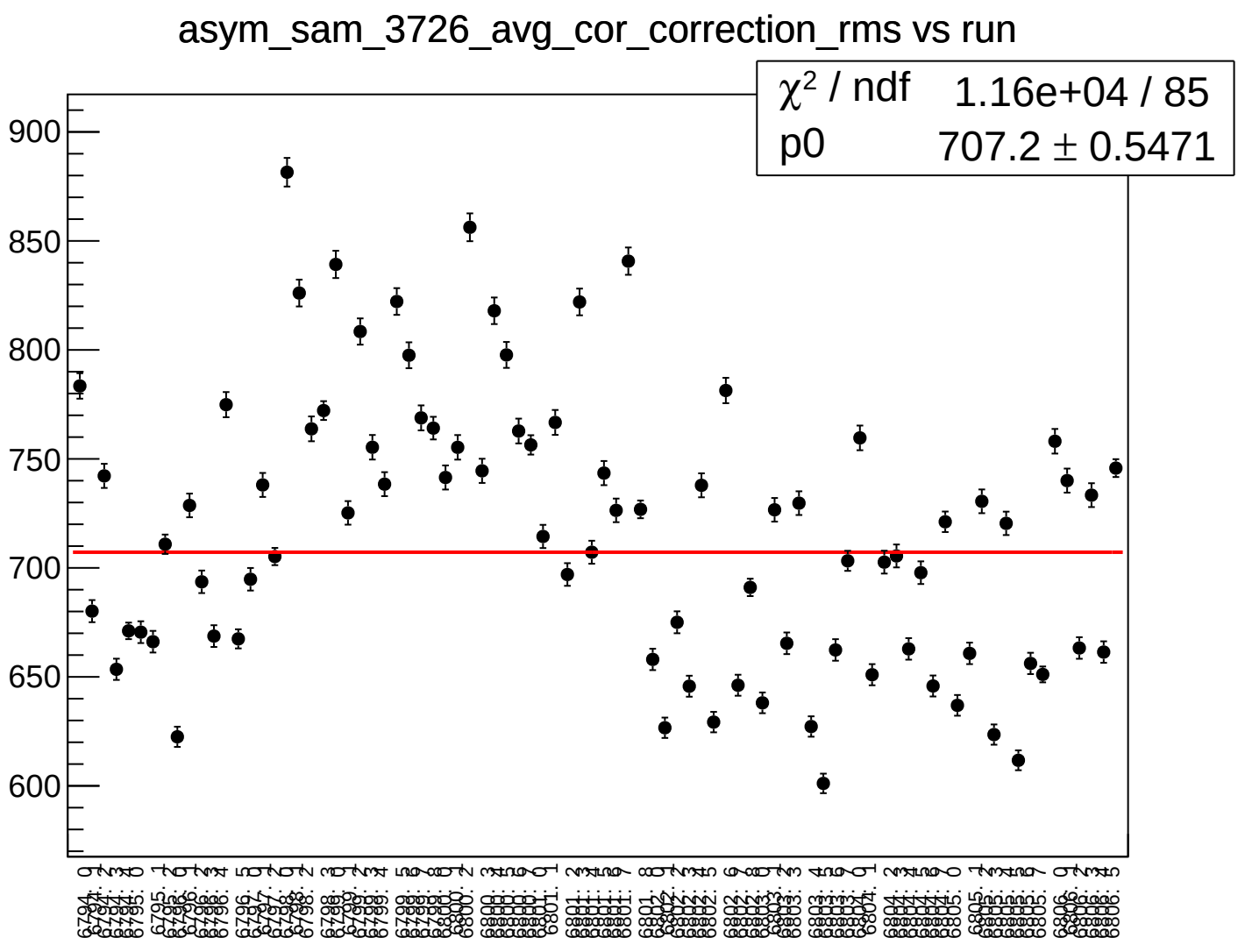

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 75.85 / 85
p0 −194.8 ± 75.45
pull
Entries 86
Mean −628.1
Std Dev 0

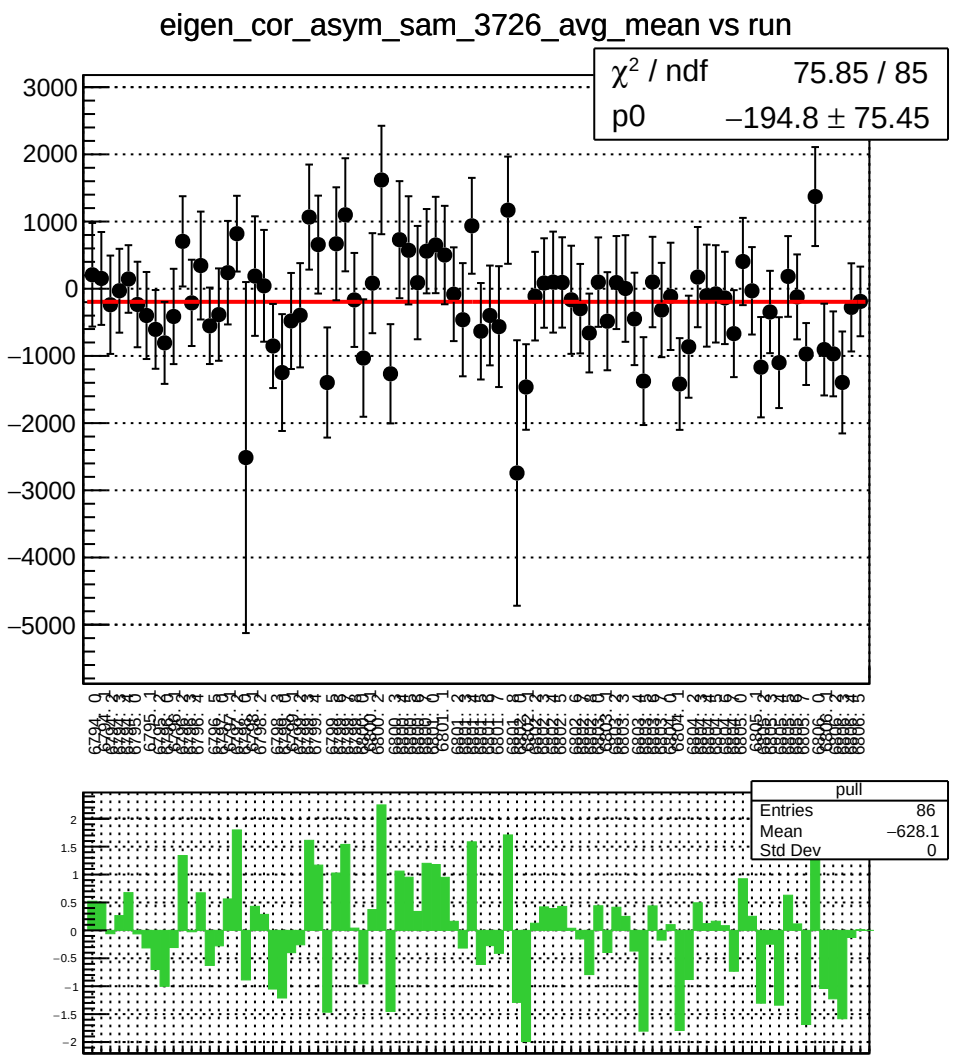

pull1D
Entries 86
Mean 0.006816
Std Dev 0.9391

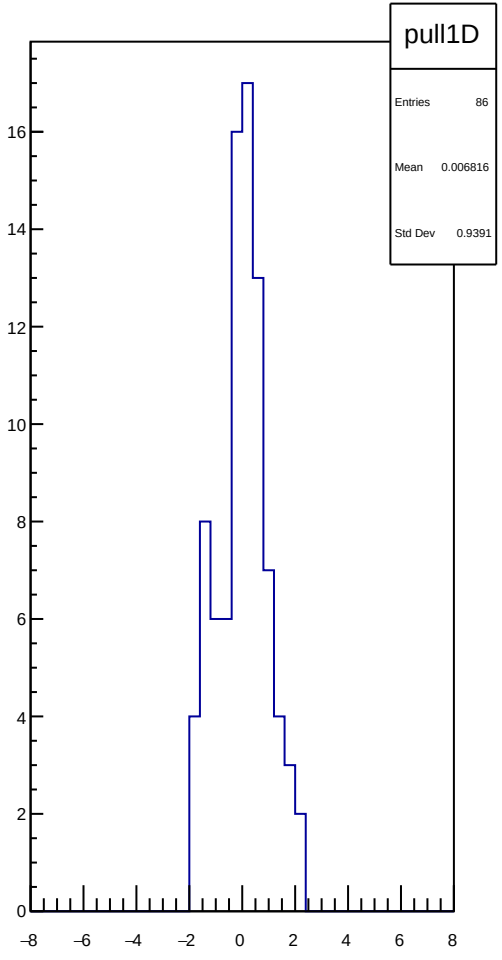

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.579e+04 / 85
p0 68.46 ± 0.05335
250
200
150
100
50

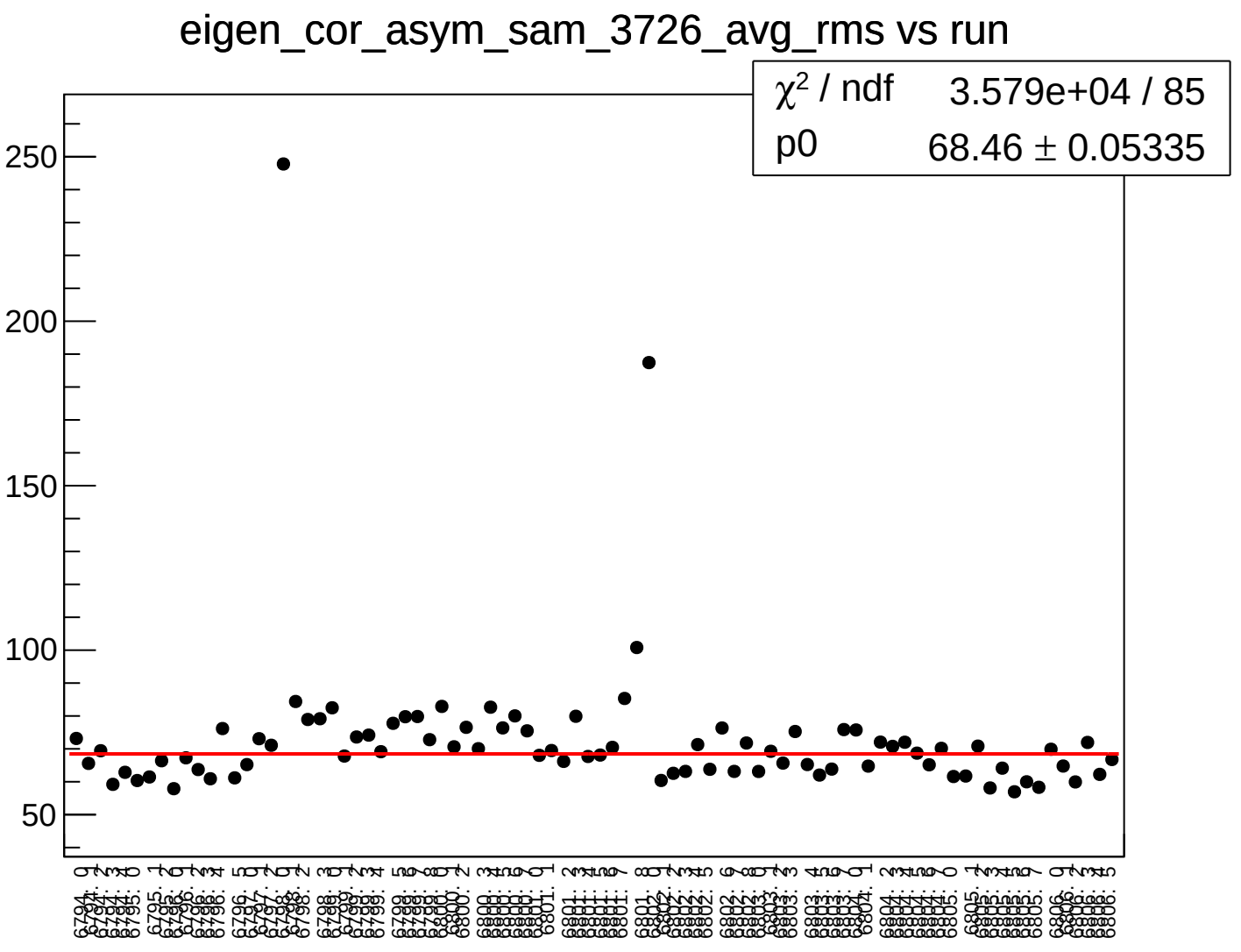

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 82.97 / 85
p0 −159.8 ± 773.7
pull
Entries 86
Mean 44.72
Std Dev 0

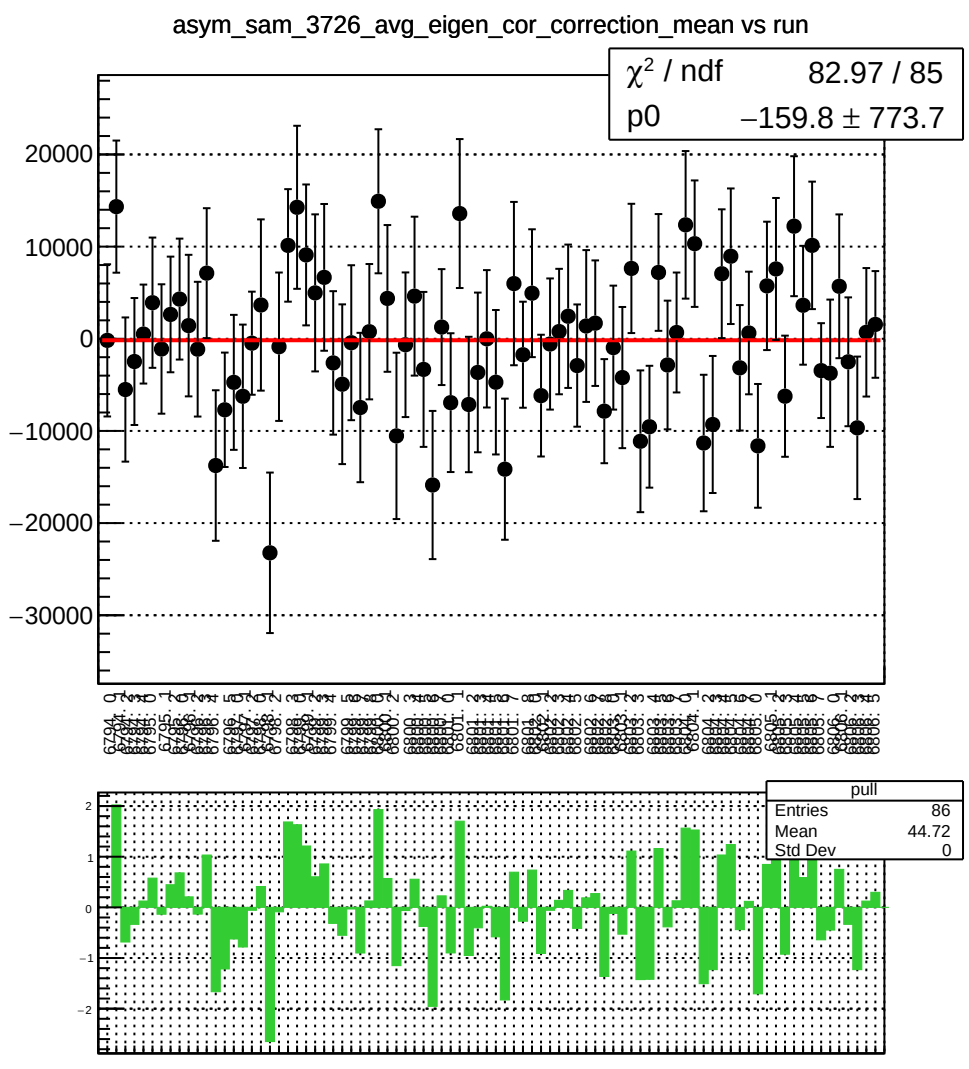

pull1D
Entries 86
Mean −0.001476
Std Dev 0.9822

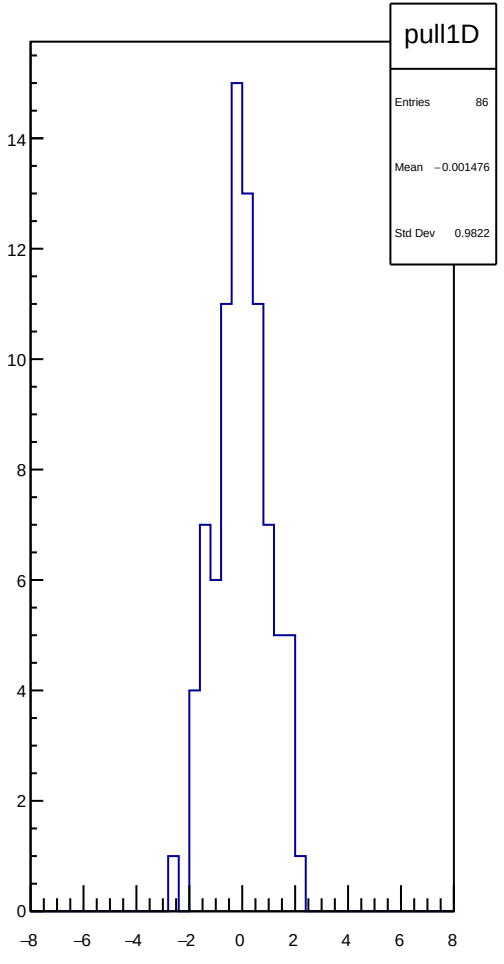

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 1.16e+04 / 85
p0 707.2 ± 0.5471
900
850
800
750
700
650
600

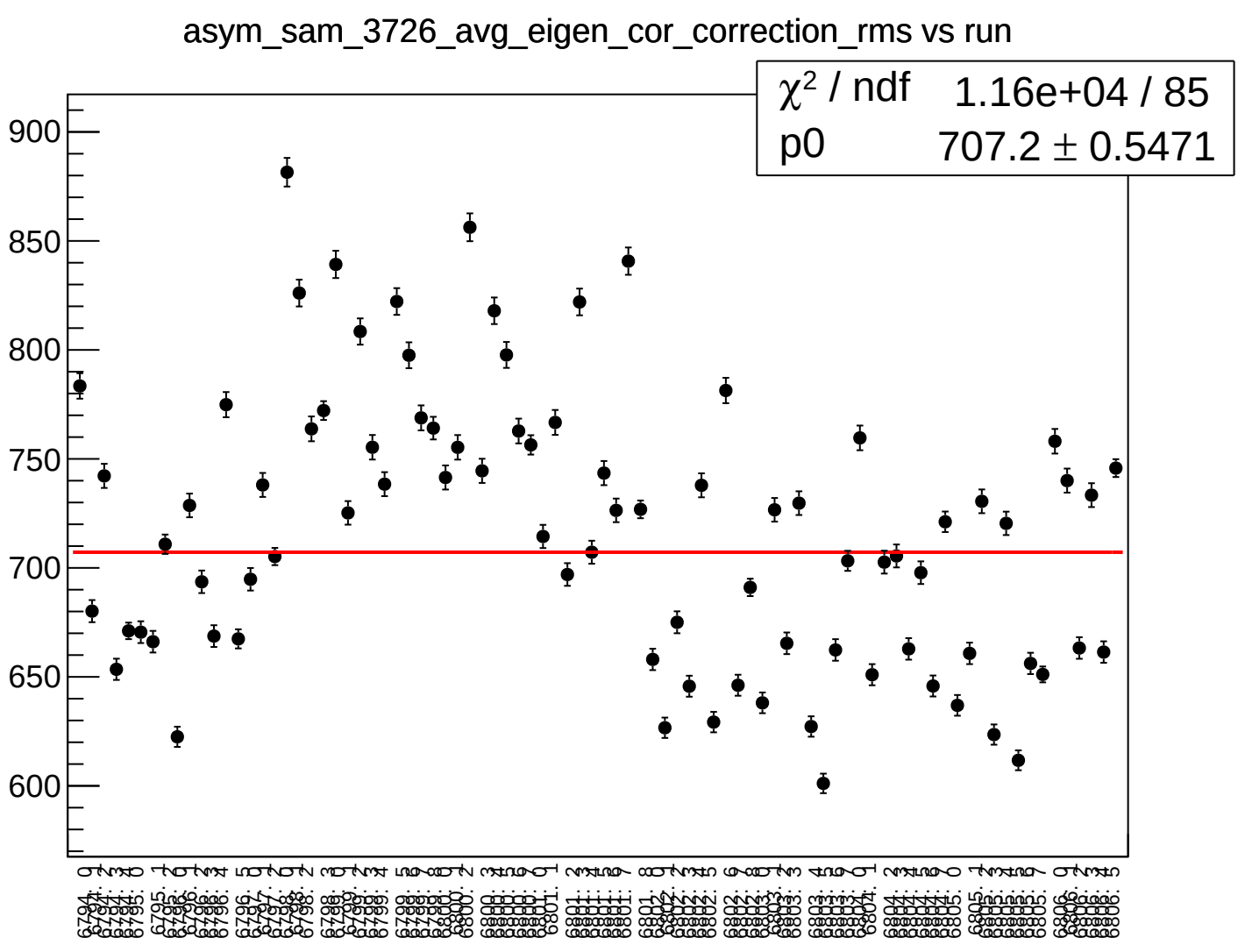

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 75.85 / 85
p0 −194.8 ± 75.45
pull
Entries 86
Mean −628.1
Std Dev 0

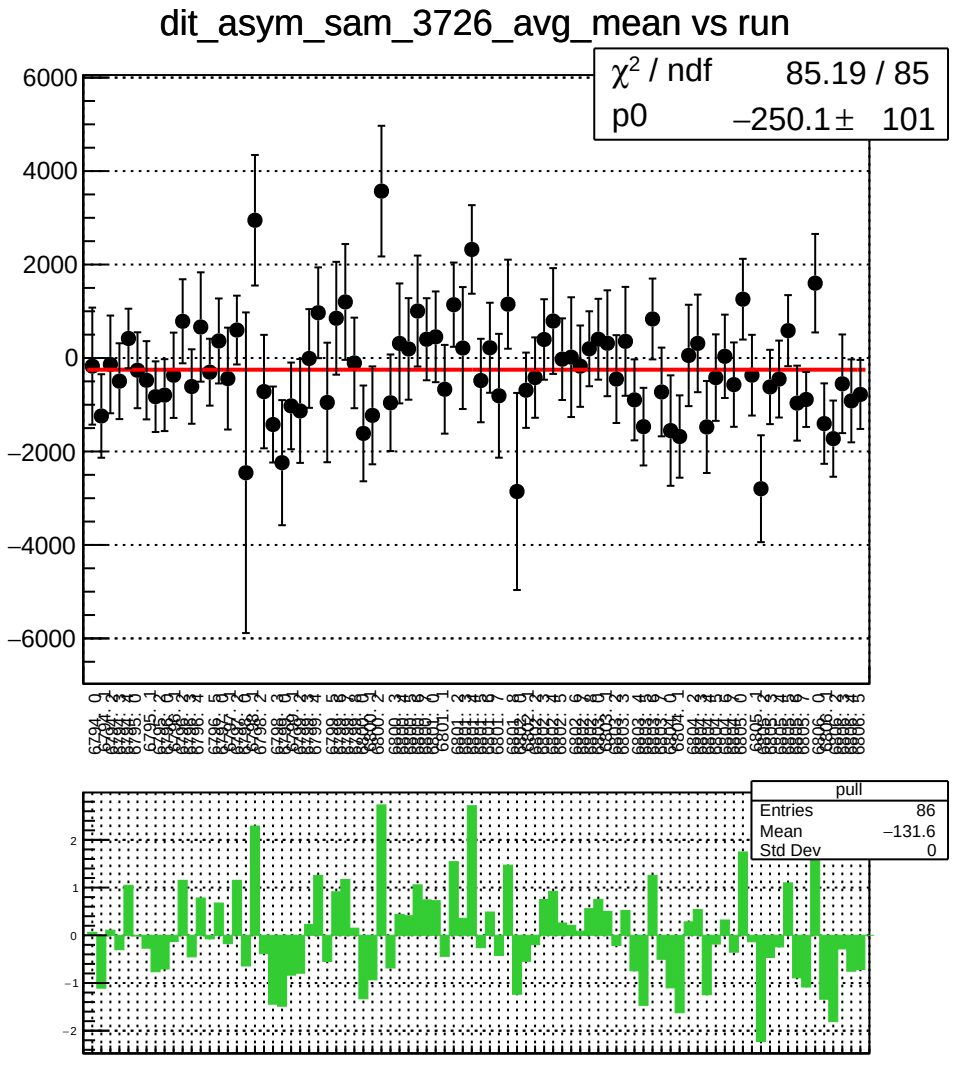

pull1D
Entries 86
Mean 0.006816
Std Dev 0.9391

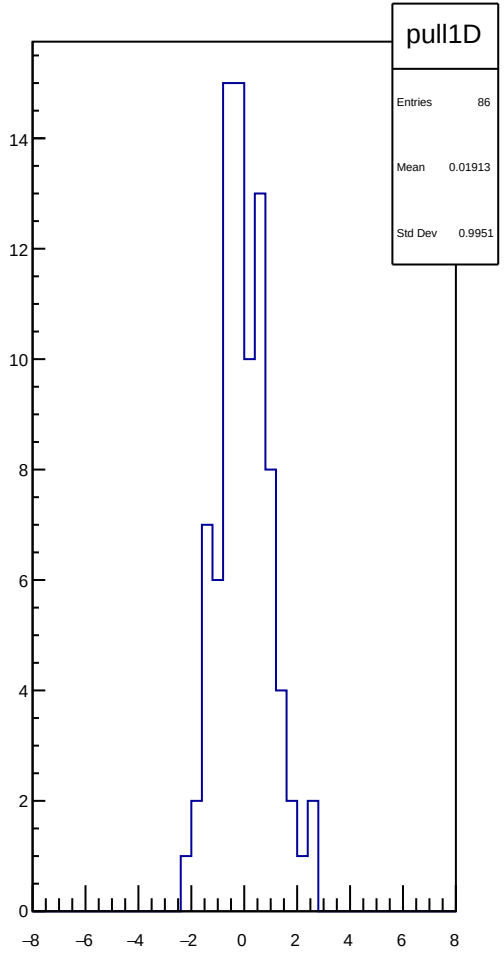

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.579e+04 / 85
p0 68.46 ± 0.05335
250
200
150
100
50

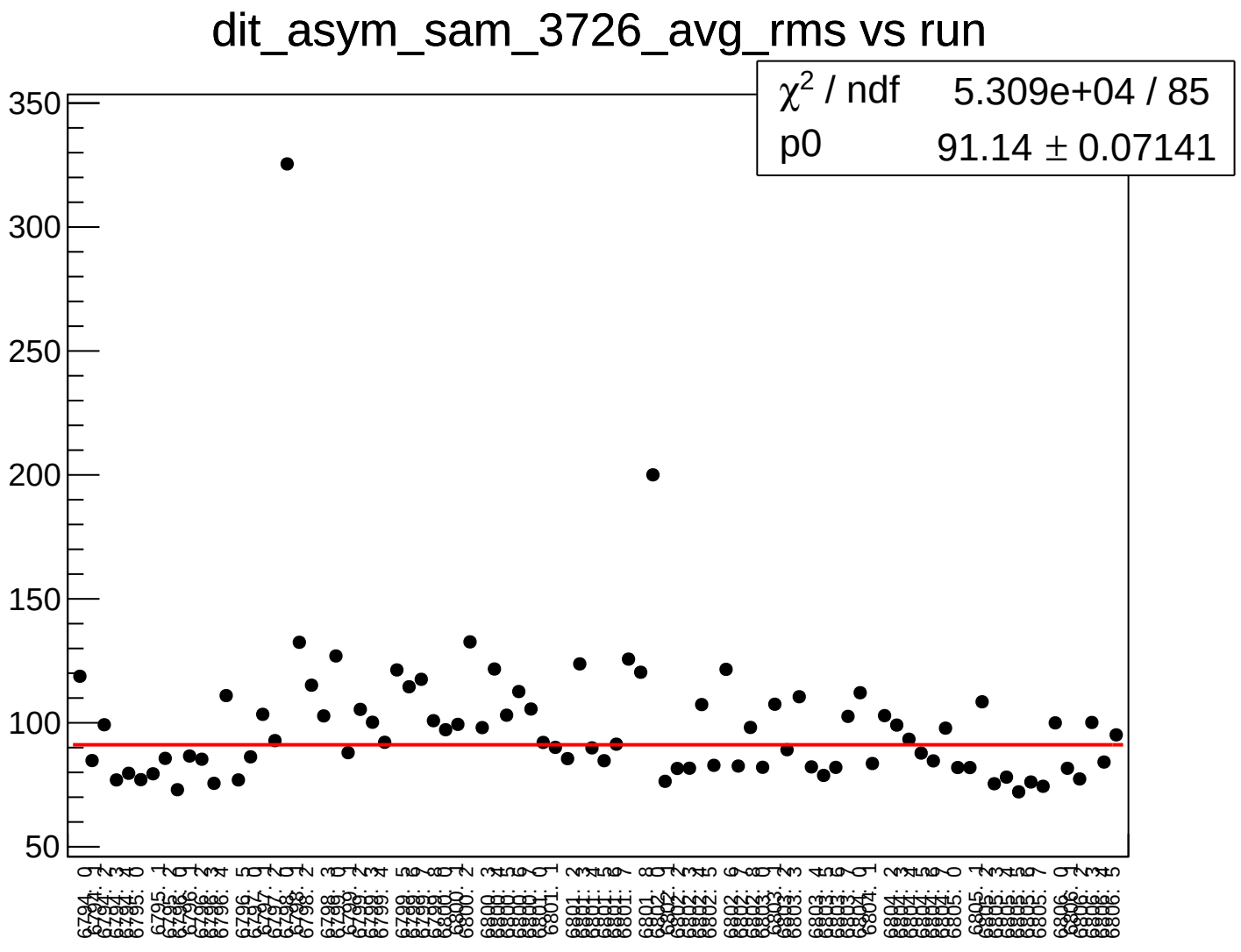

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.97 / 85
p0 −159.8 ± 773.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 44.72
Std Dev 0
2
1
0
−1
−2

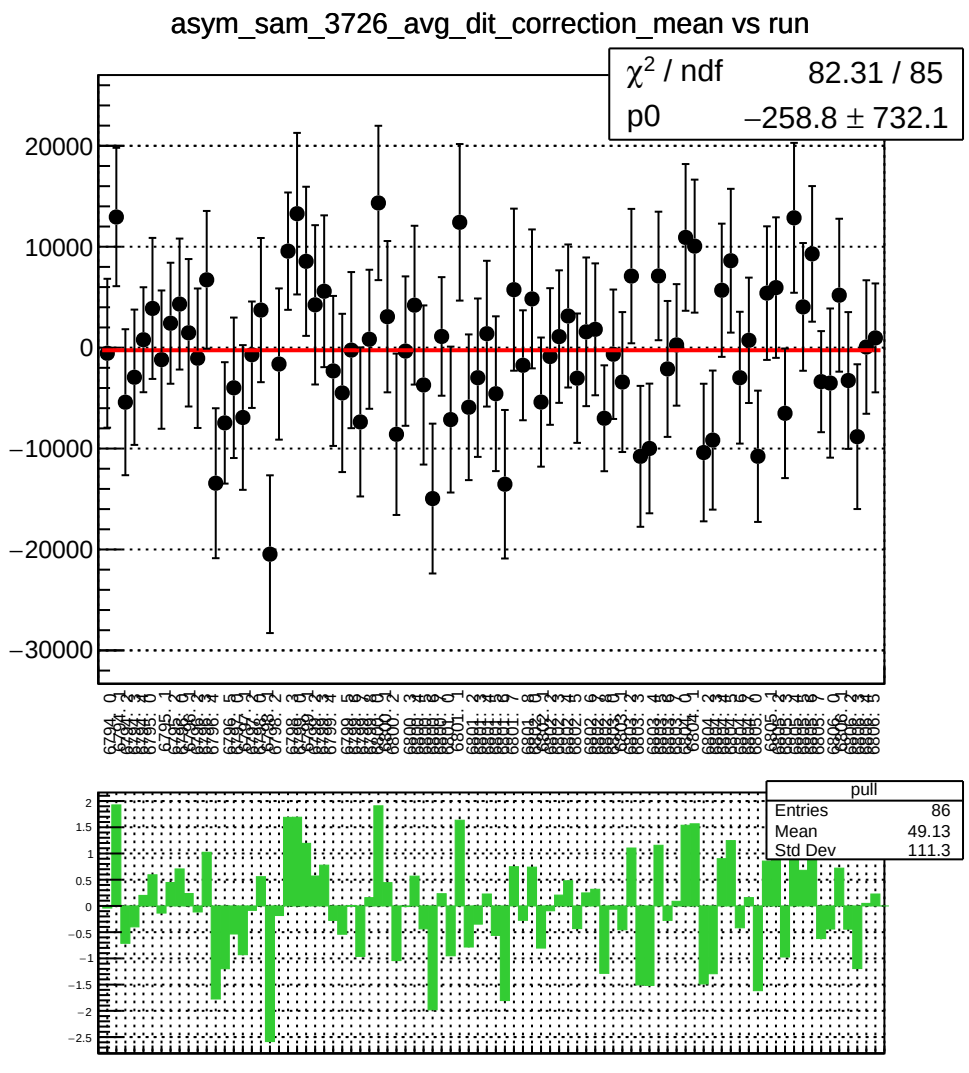

pull1D
Entries 86
Mean −0.001476
Std Dev 0.9822
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

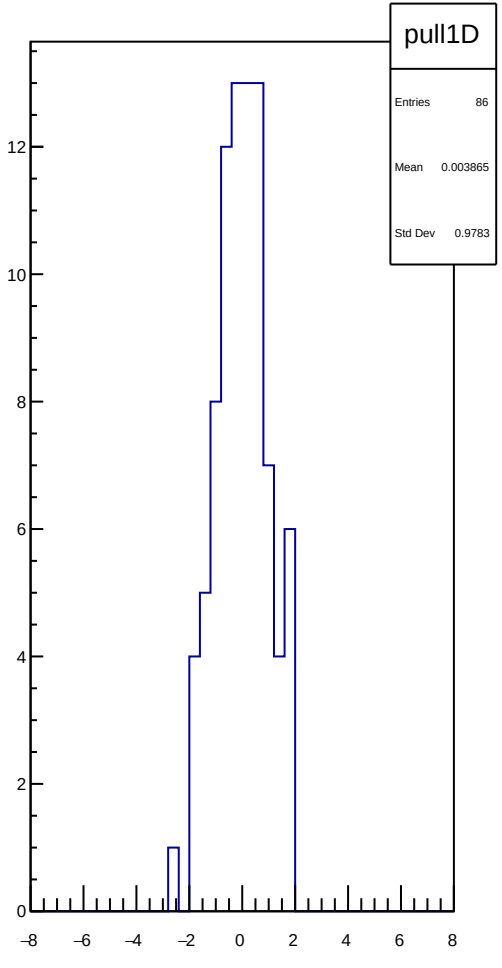

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.16e+04 / 85
p0 707.2 ± 0.5471
900
850
800
750
700
650
600

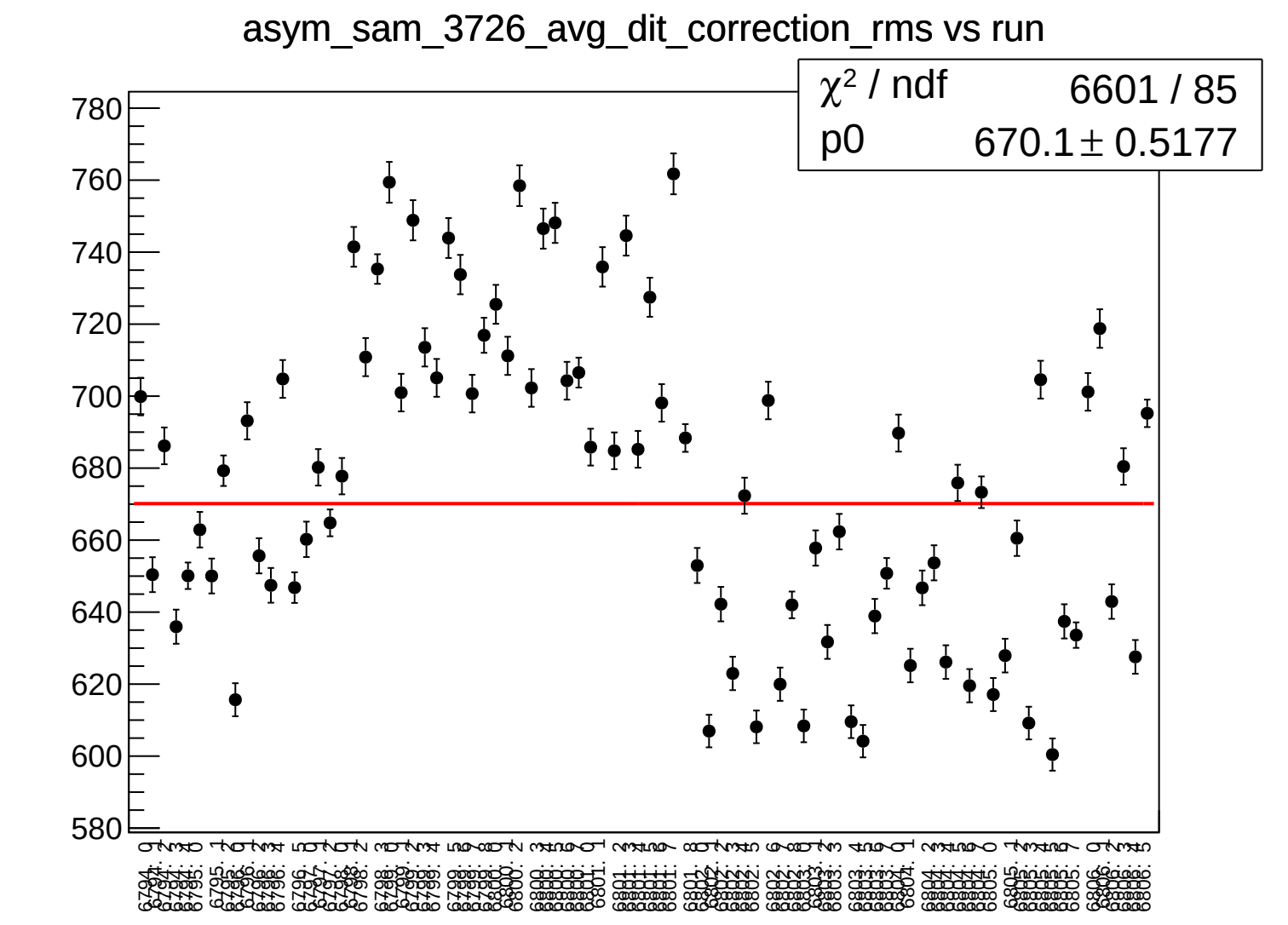

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 85.19 / 85
p0 −250.1 ± 101
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 86
Mean −131.6
Std Dev 0
2
1
0
−1
−2

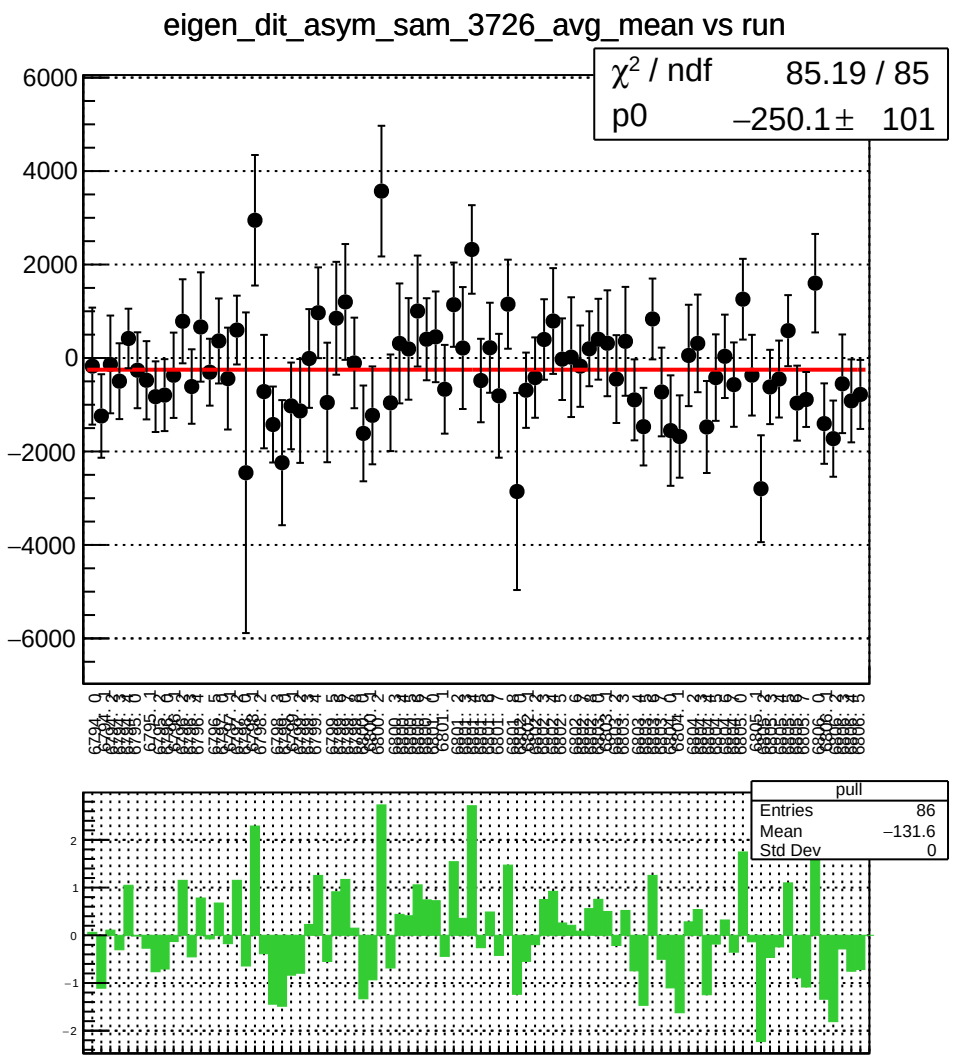

pull1D
Entries 86
Mean 0.01913
Std Dev 0.9951
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

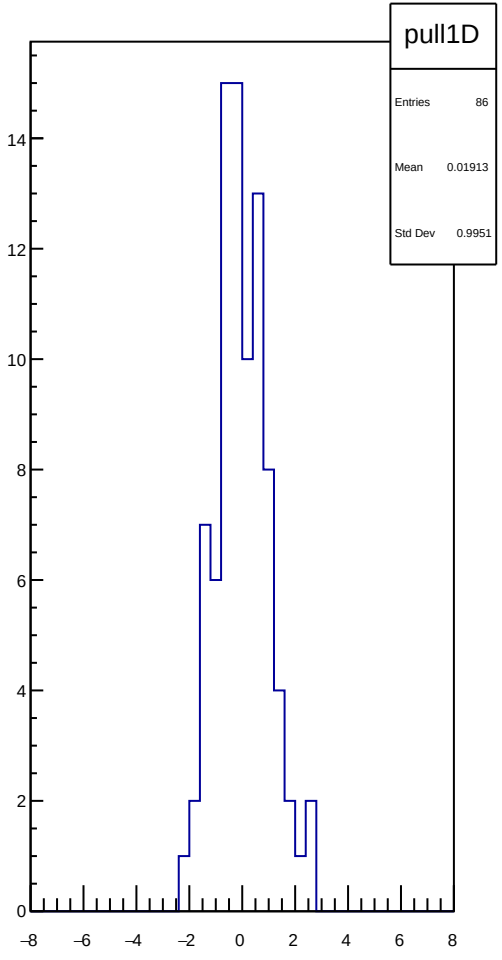

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.309e+04 / 85
p0 91.14 ± 0.07141
350
300
250
200
150
100
50

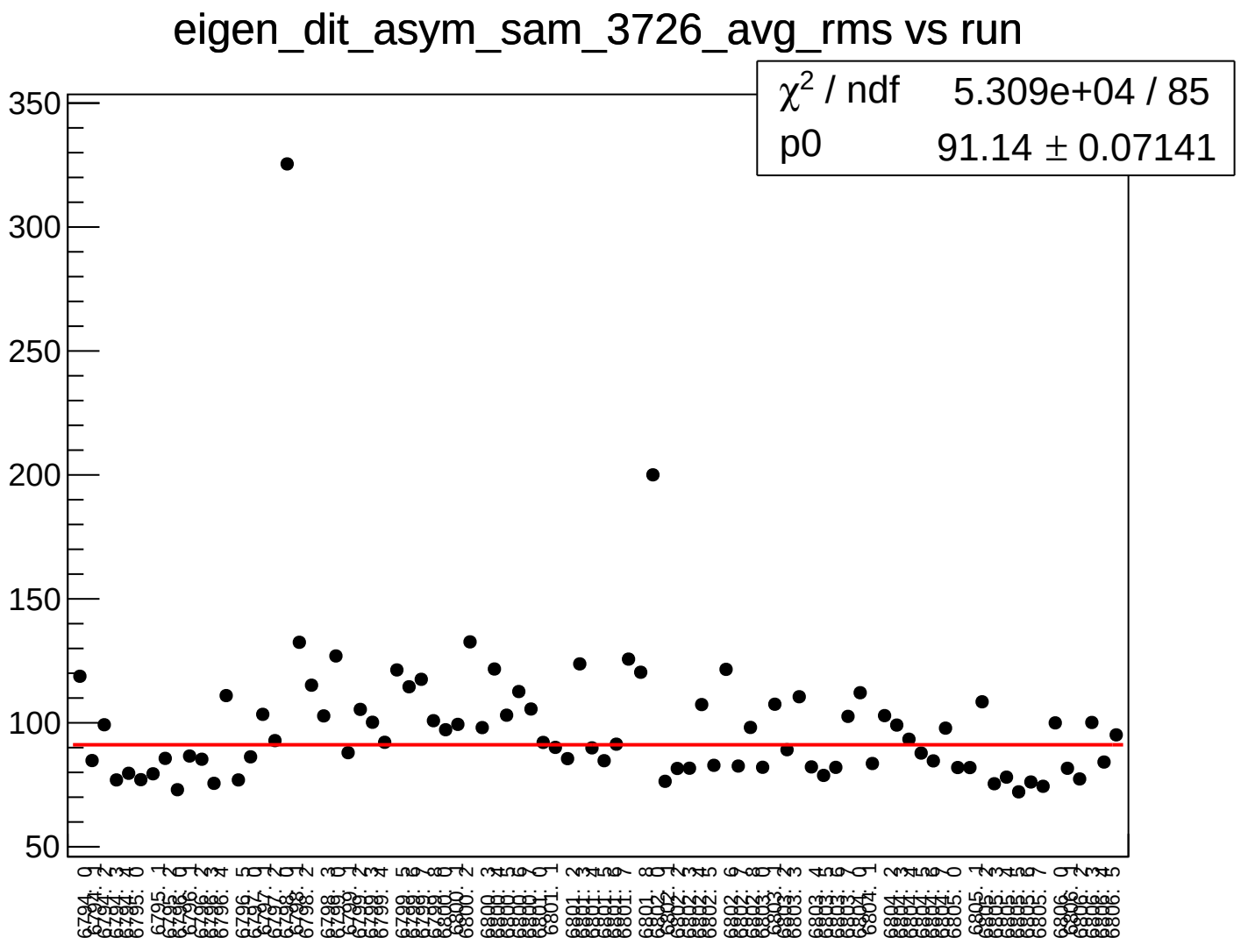

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 82.31 / 85
p0 −258.8 ± 732.1
pull
Entries 86
Mean 49.13
Std Dev 111.3

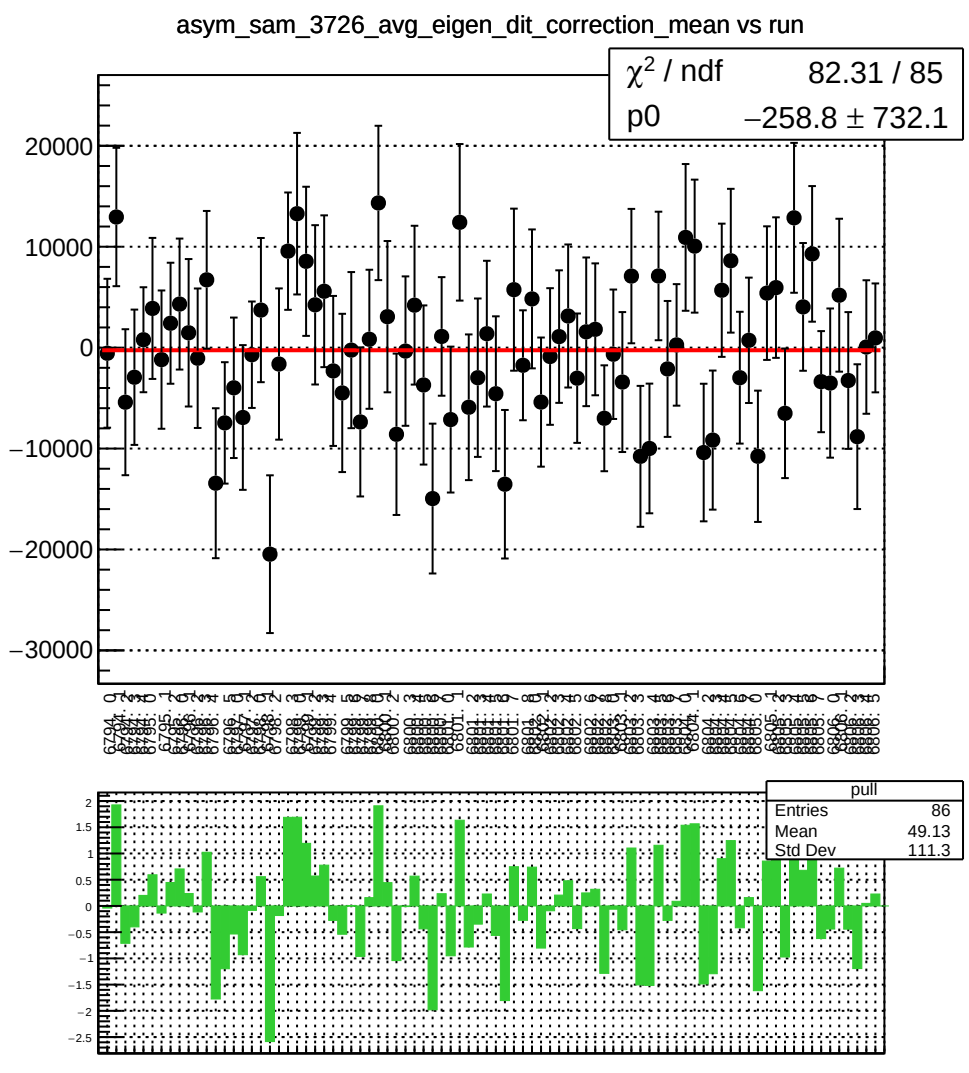

pull1D
Entries 86
Mean 0.003865
Std Dev 0.9783

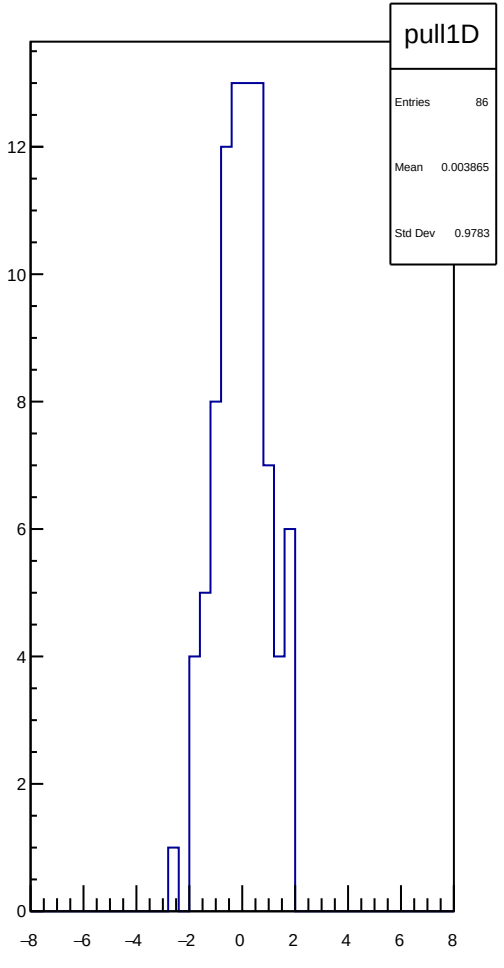

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 6601 / 85
p0 670.1 ± 0.5177
780
760
740
720
700
680
660
640
620
600
580

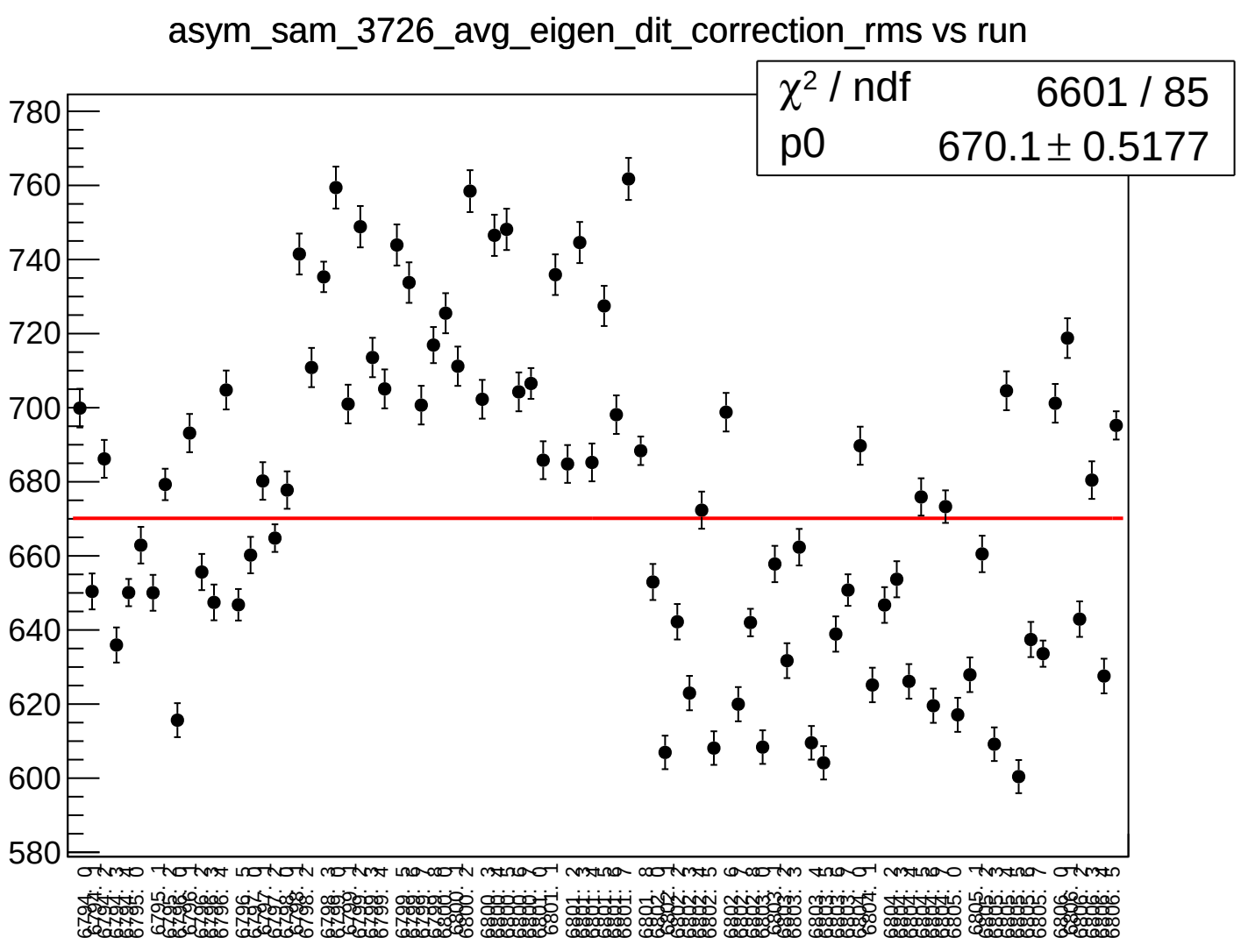

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 85.19 / 85
p0 −250.1 ± 101
pull
Entries 86
Mean −131.6
Std Dev 0

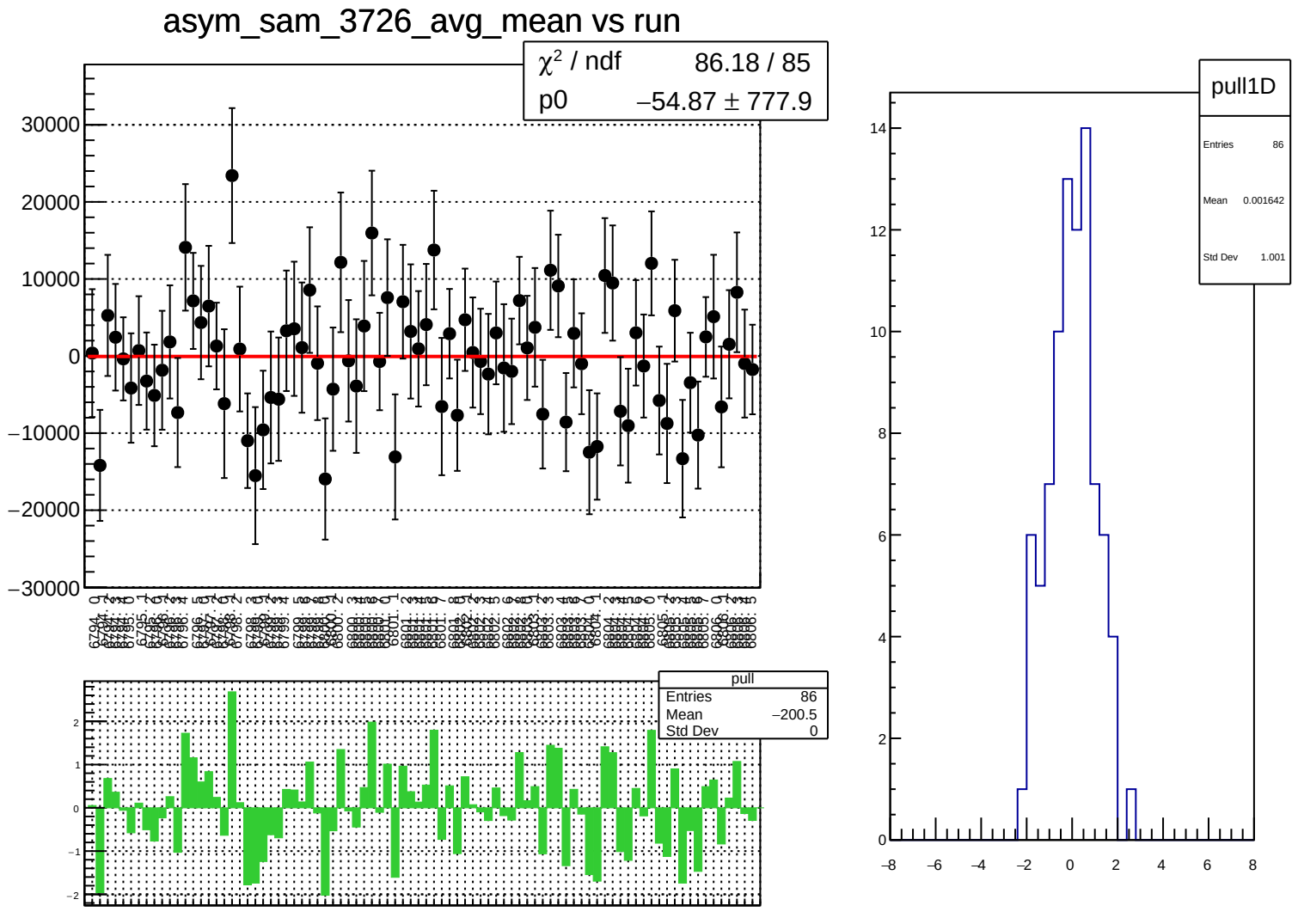

pull1D
Entries 86
Mean 0.01913
Std Dev 0.9951

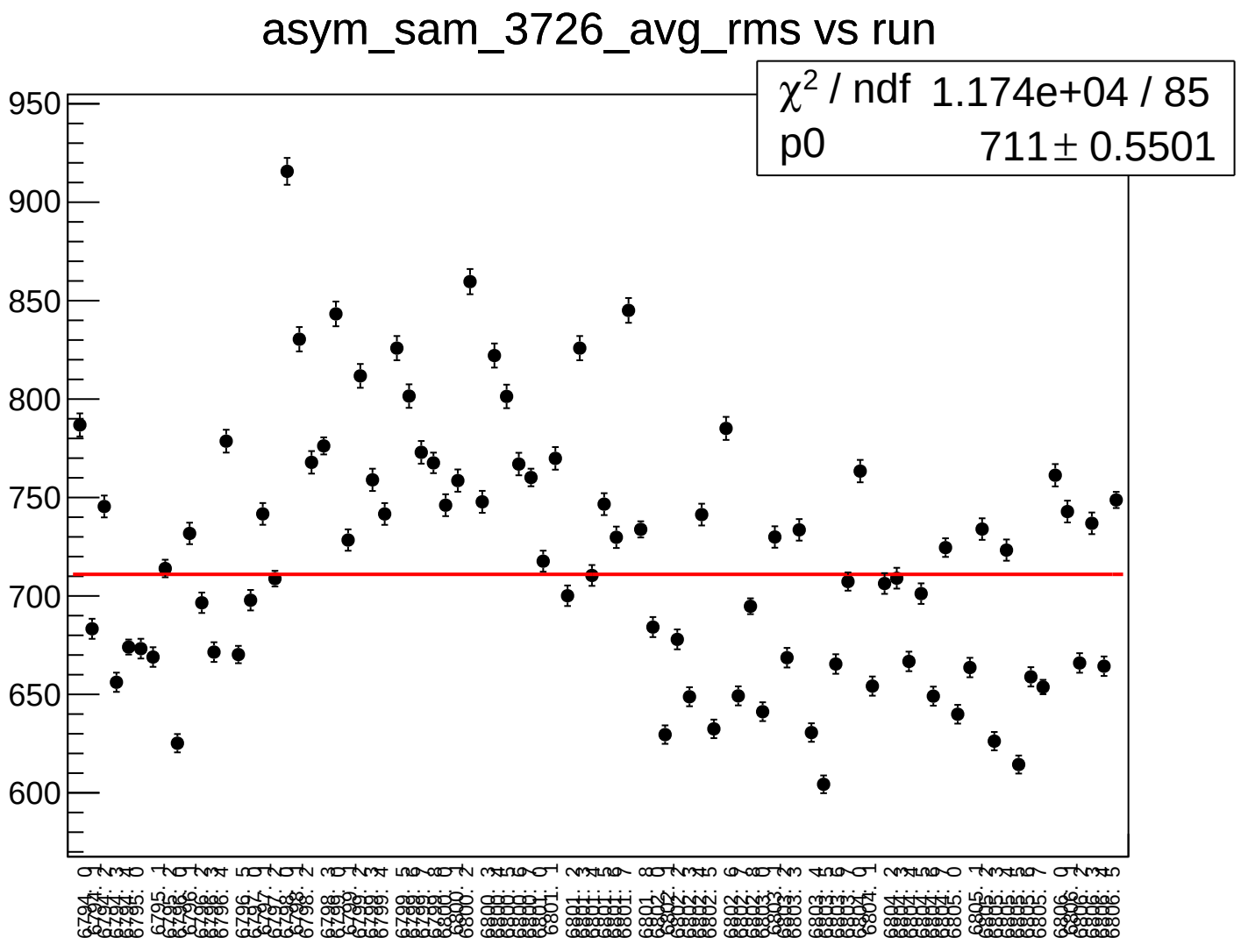

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 5.309e+04 / 85
p0 91.14 ± 0.07141
350
300
250
200
150
100
50

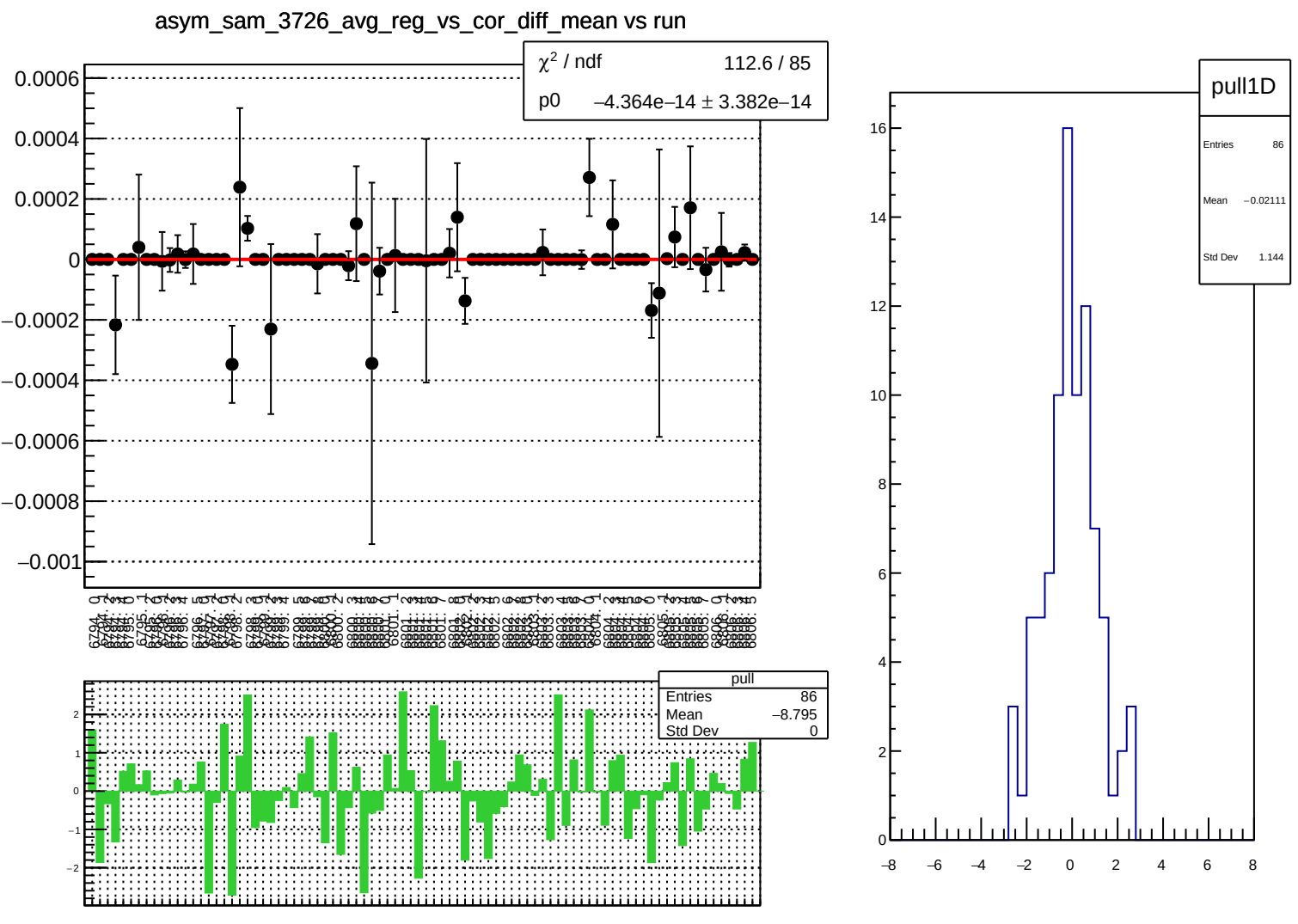

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.31 / 85
p0 −258.8 ± 732.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean 49.13
Std Dev 111.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

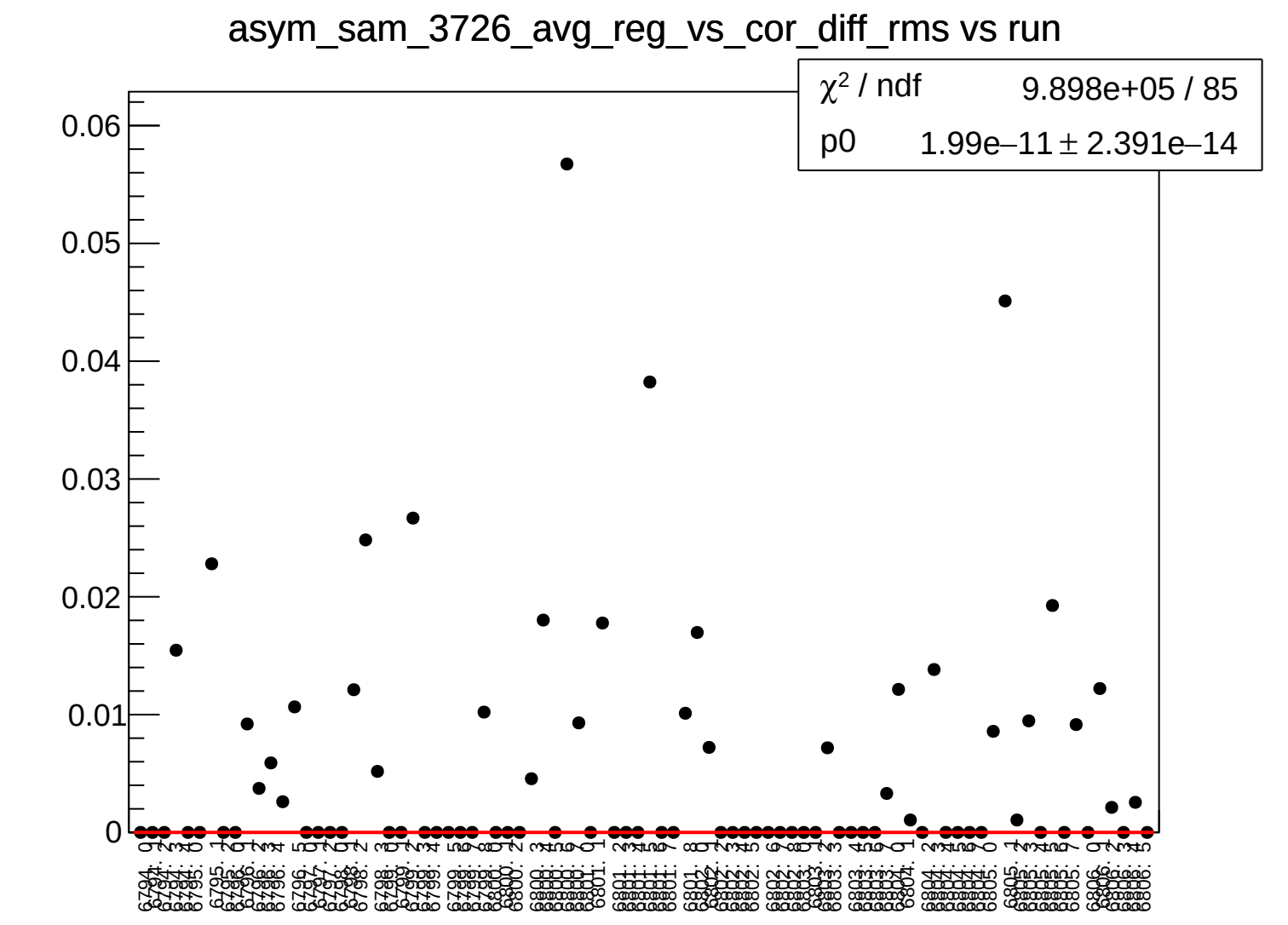

pull1D
Entries 86
Mean 0.003865
Std Dev 0.9783
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

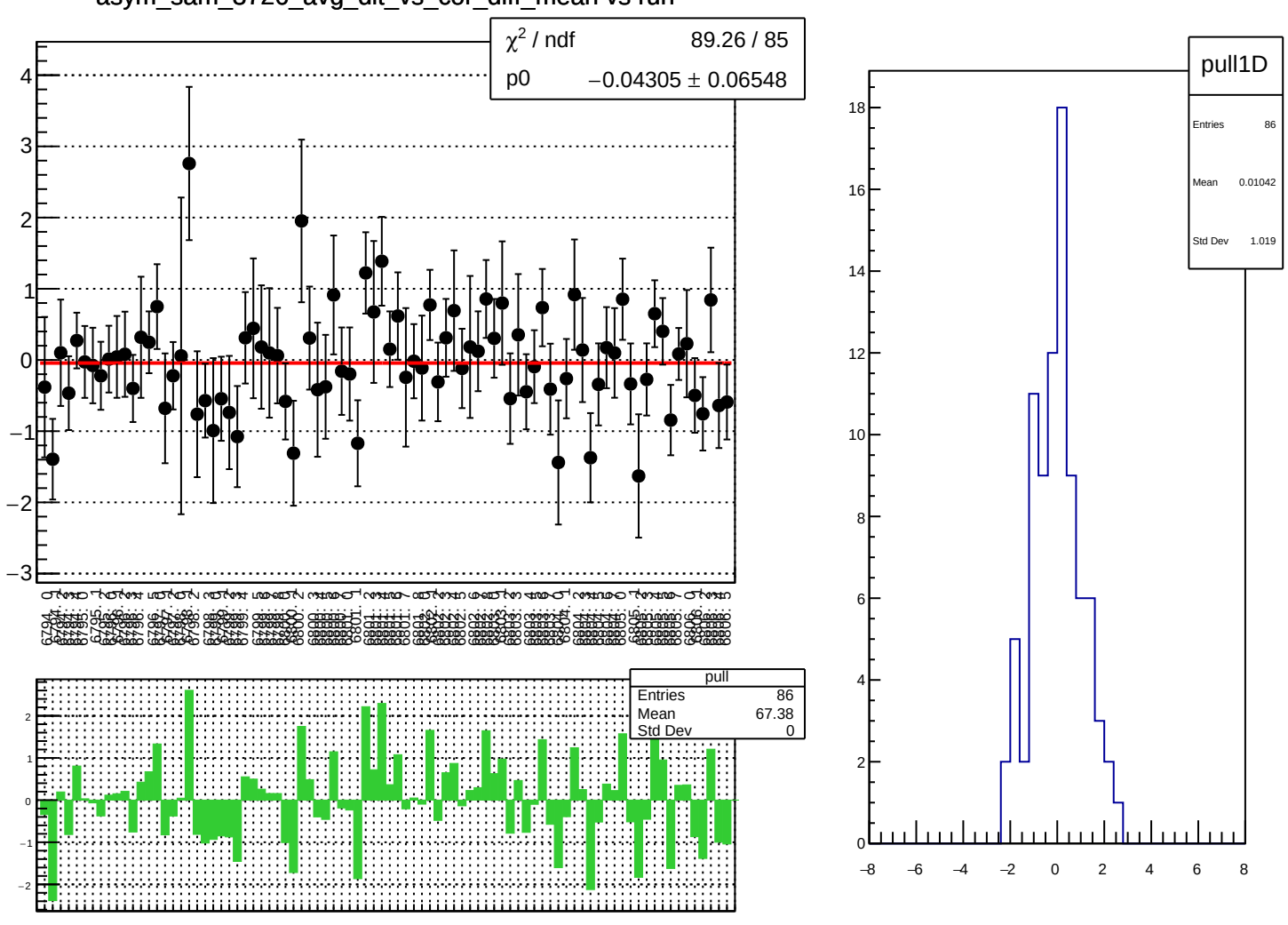

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 6601 / 85
p0 670.1 ± 0.5177
780
760
740
720
700
680
660
640
620
600
580

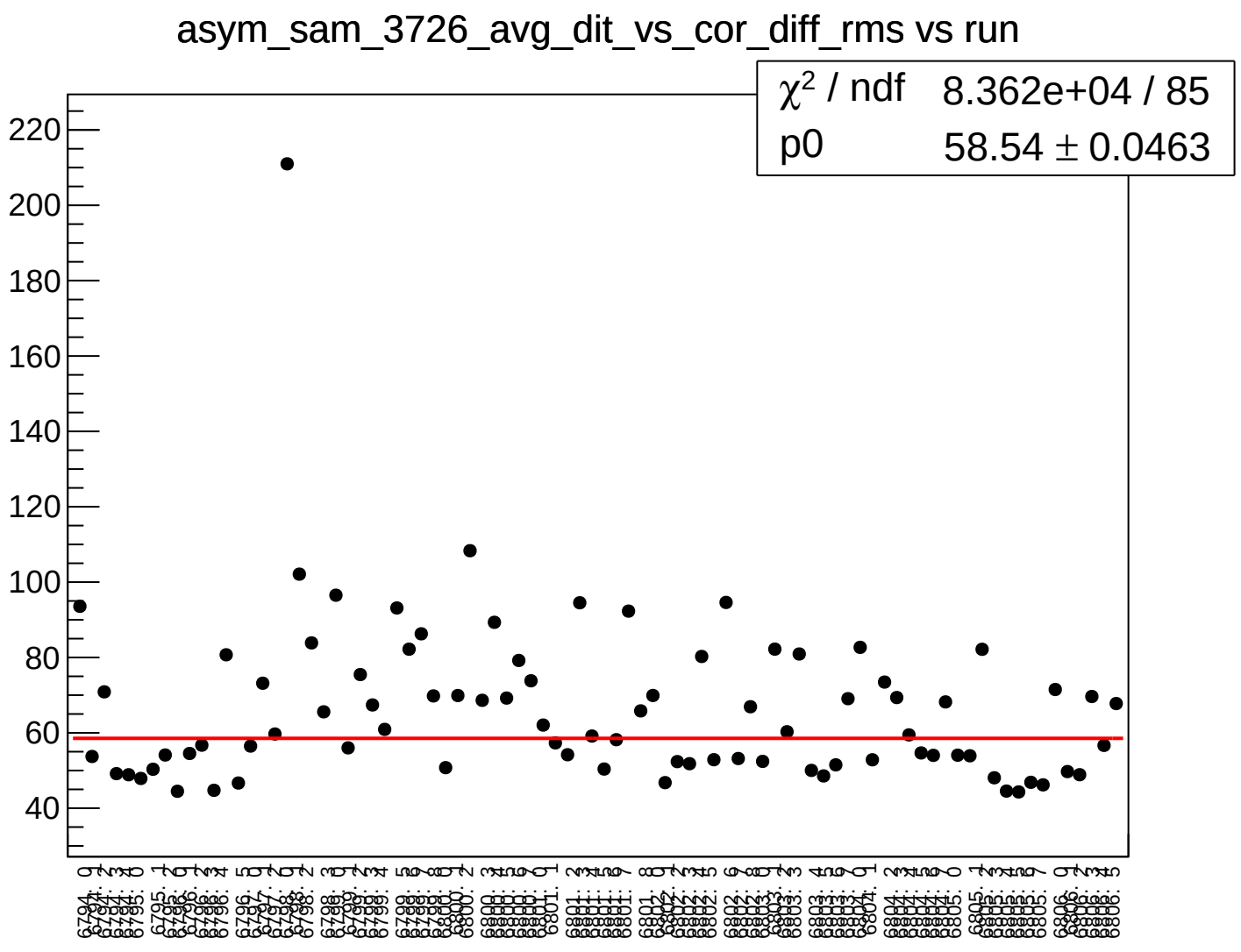

asym_sam_3726_avg_mean vs run
χ² / ndf 86.18 / 85
p0 −54.87 ± 777.9
pull
Entries 86
Mean −200.5
Std Dev 0
pull1D
Entries 86
Mean 0.001642
Std Dev 1.001

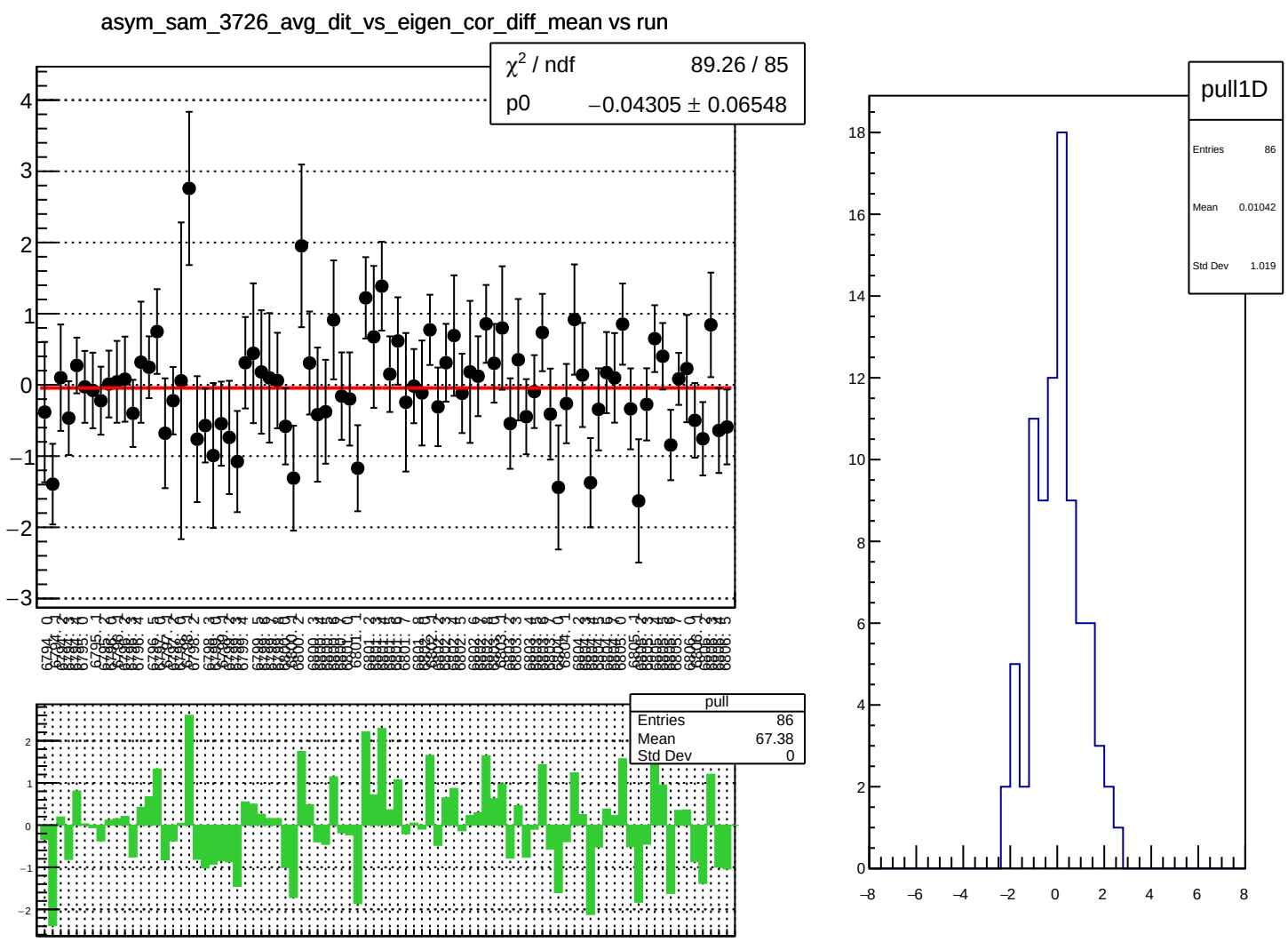

asym_sam_3726_avg_rms vs run
χ² / ndf 1.174e+04 / 85
p0 711 ± 0.5501
950
900
850
800
750
700
650
600

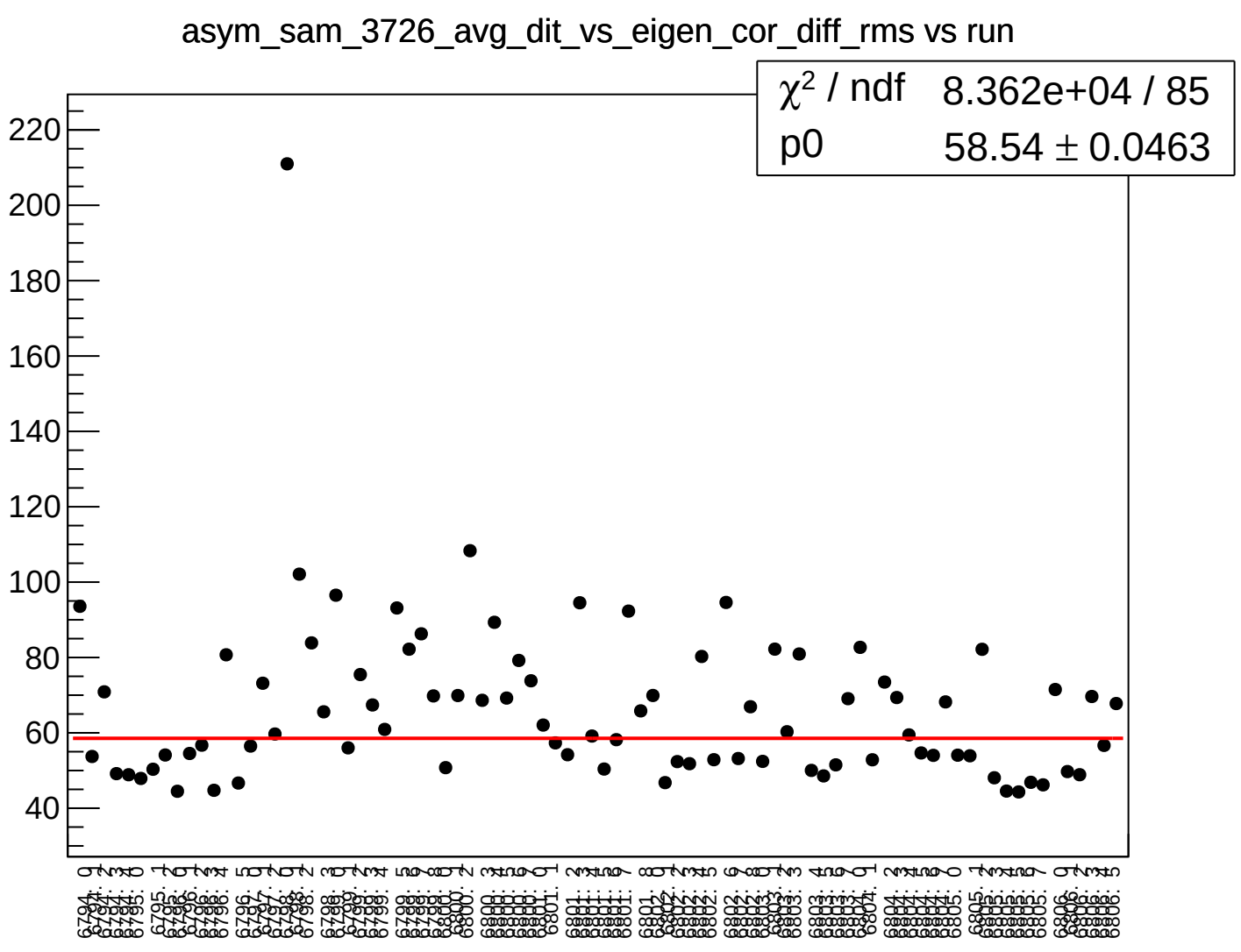

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.6 / 85
p0 −4.364e−14 ± 3.382e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 86
Mean −8.795
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.02111
Std Dev 1.144
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

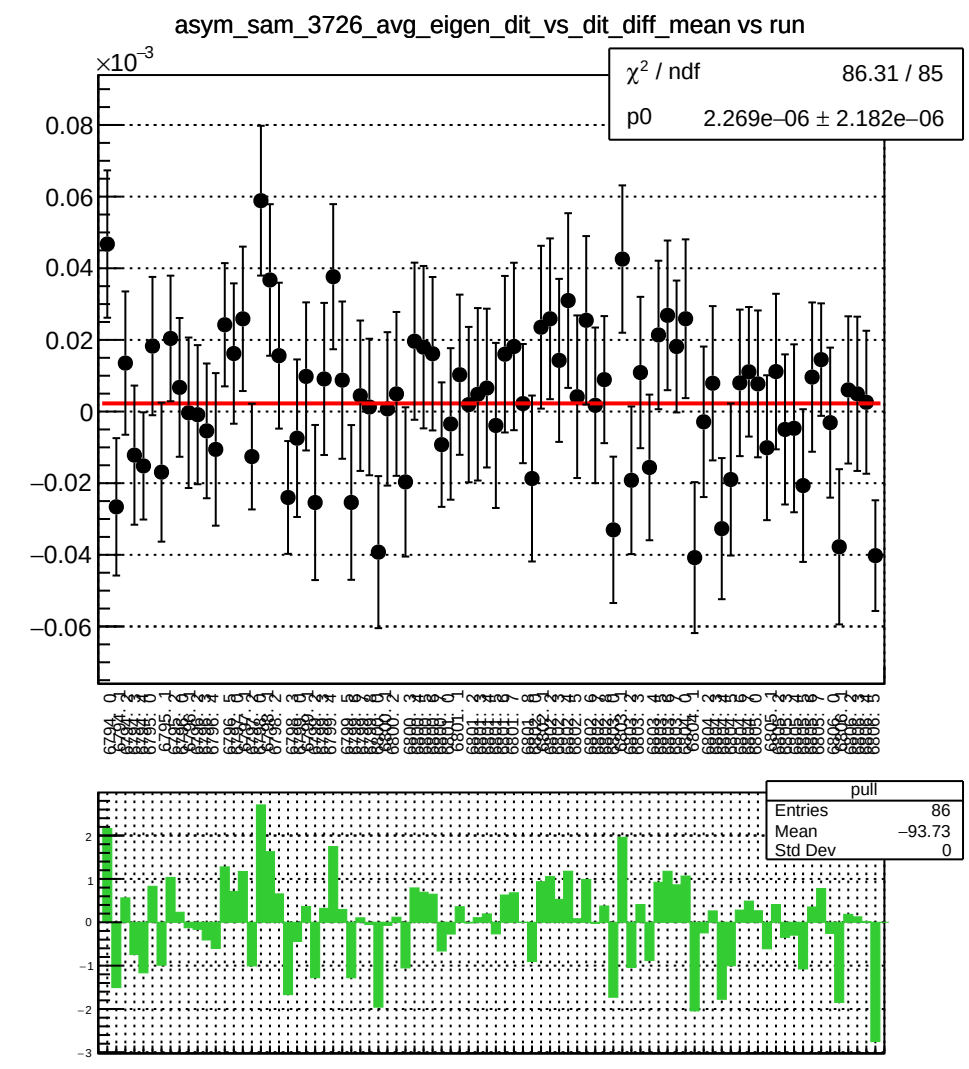

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.898e+05 / 85
p0 1.99e−11 ± 2.391e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

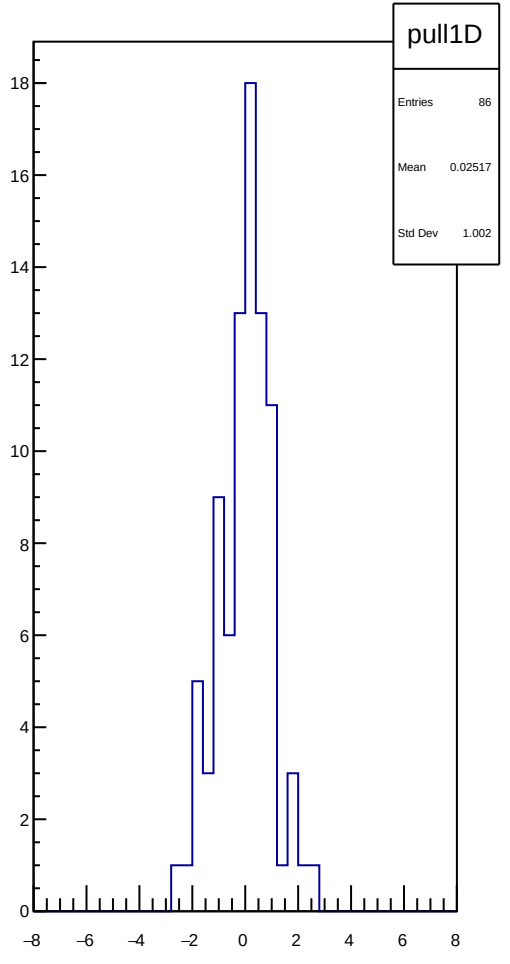

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 85
p0 −0.04305 ± 0.06548
pull
Entries 86
Mean 67.38
Std Dev 0
pull1D
Entries 86
Mean 0.01042
Std Dev 1.019

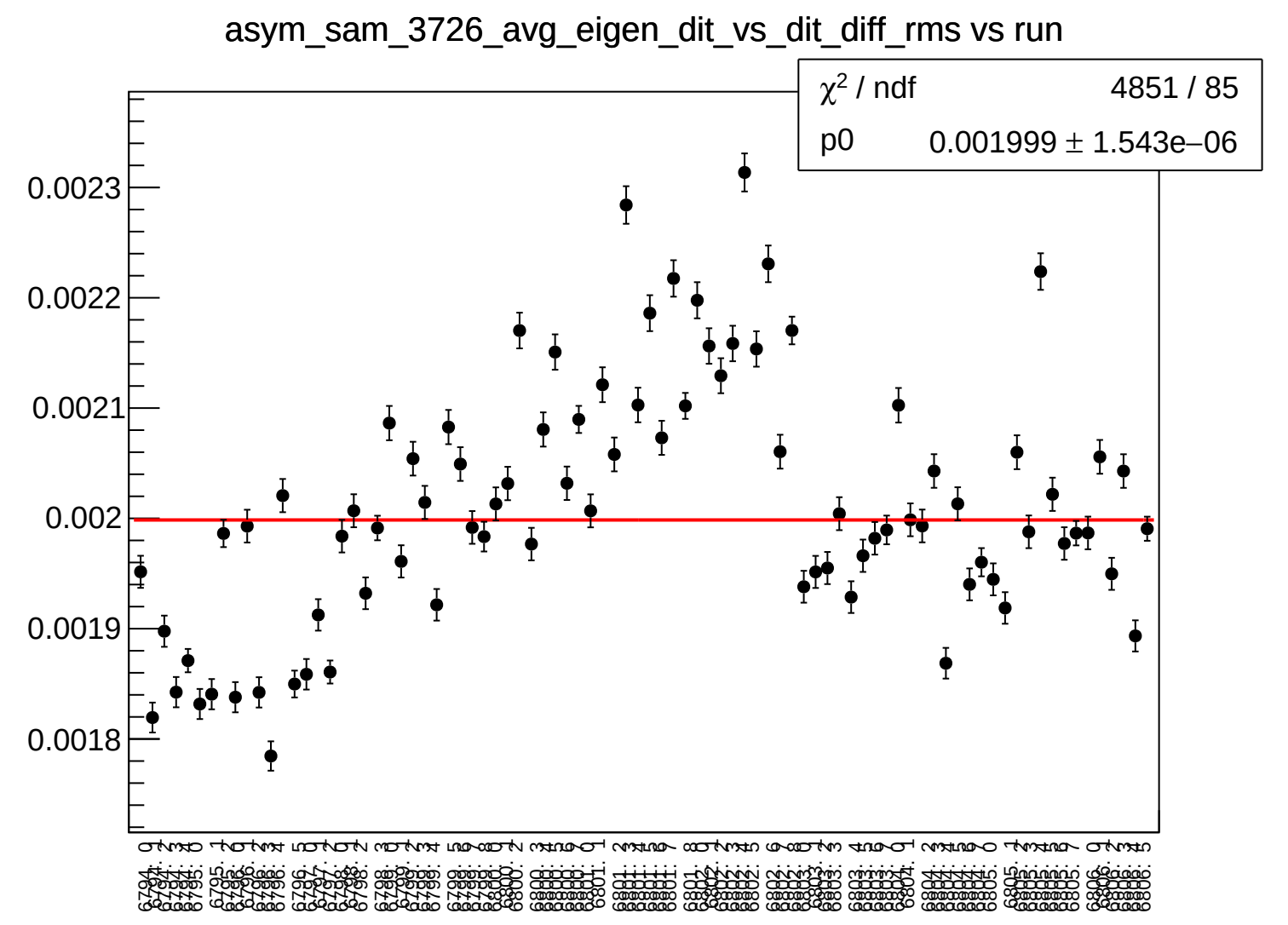

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.362e+04 / 85
p0 58.54 ± 0.0463
220
200
180
160
140
120
100
80
60
40

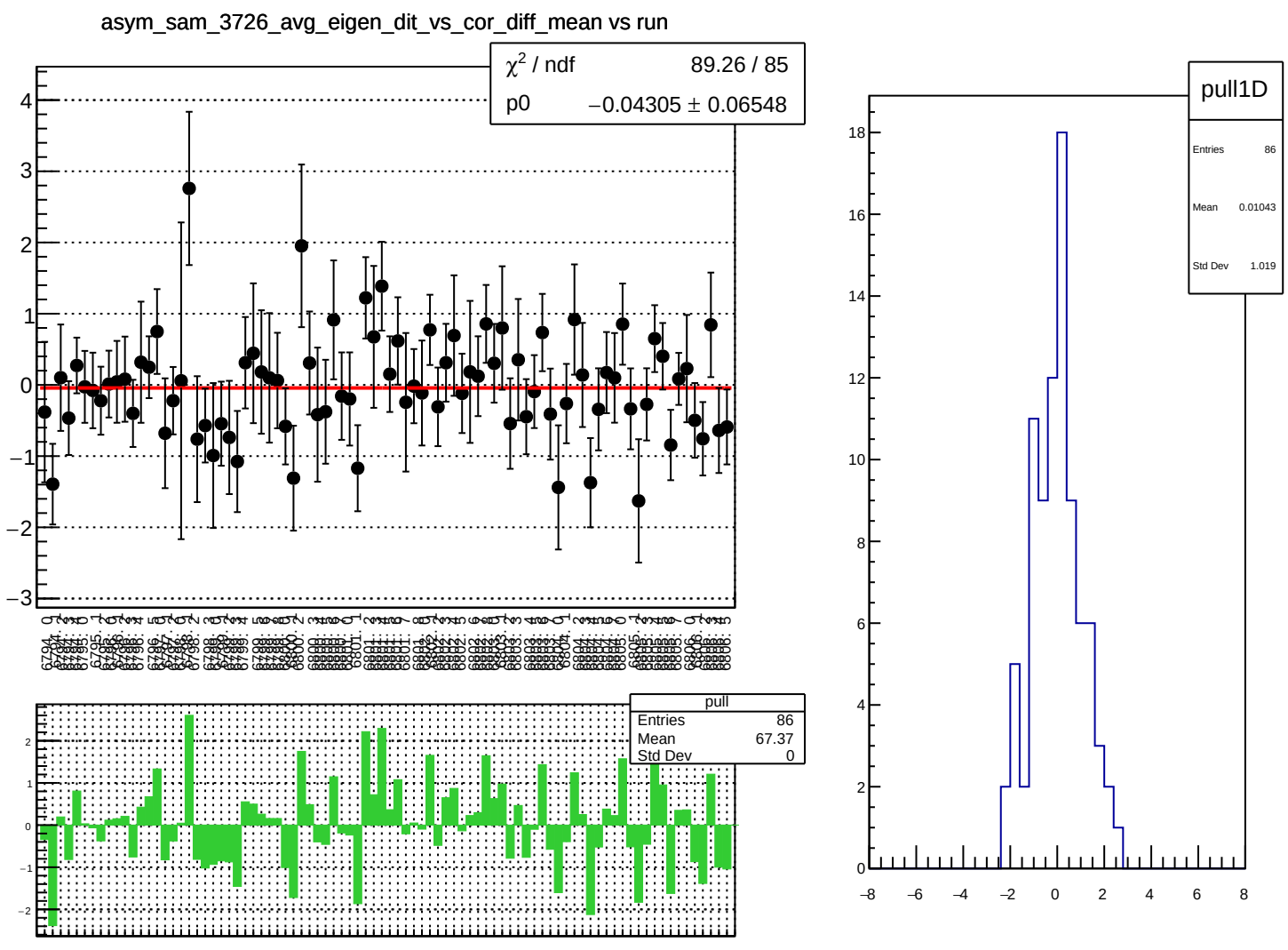

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.26 / 85
p0 −0.04305 ± 0.06548
pull
Entries 86
Mean 67.38
Std Dev 0
pull1D
Entries 86
Mean 0.01042
Std Dev 1.019

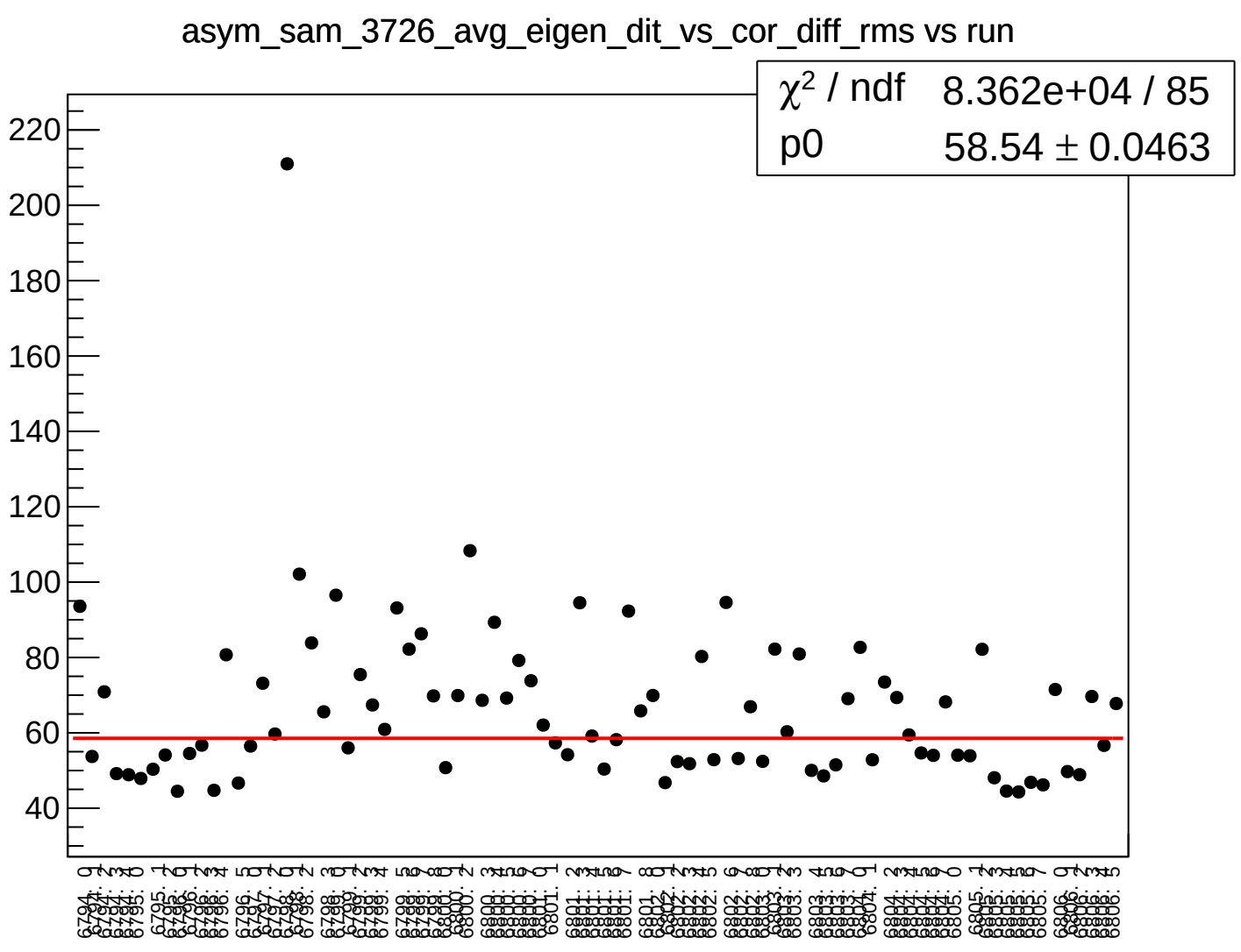

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.362e+04 / 85
p0 58.54 ± 0.0463
220
200
180
160
140
120
100
80
60
40

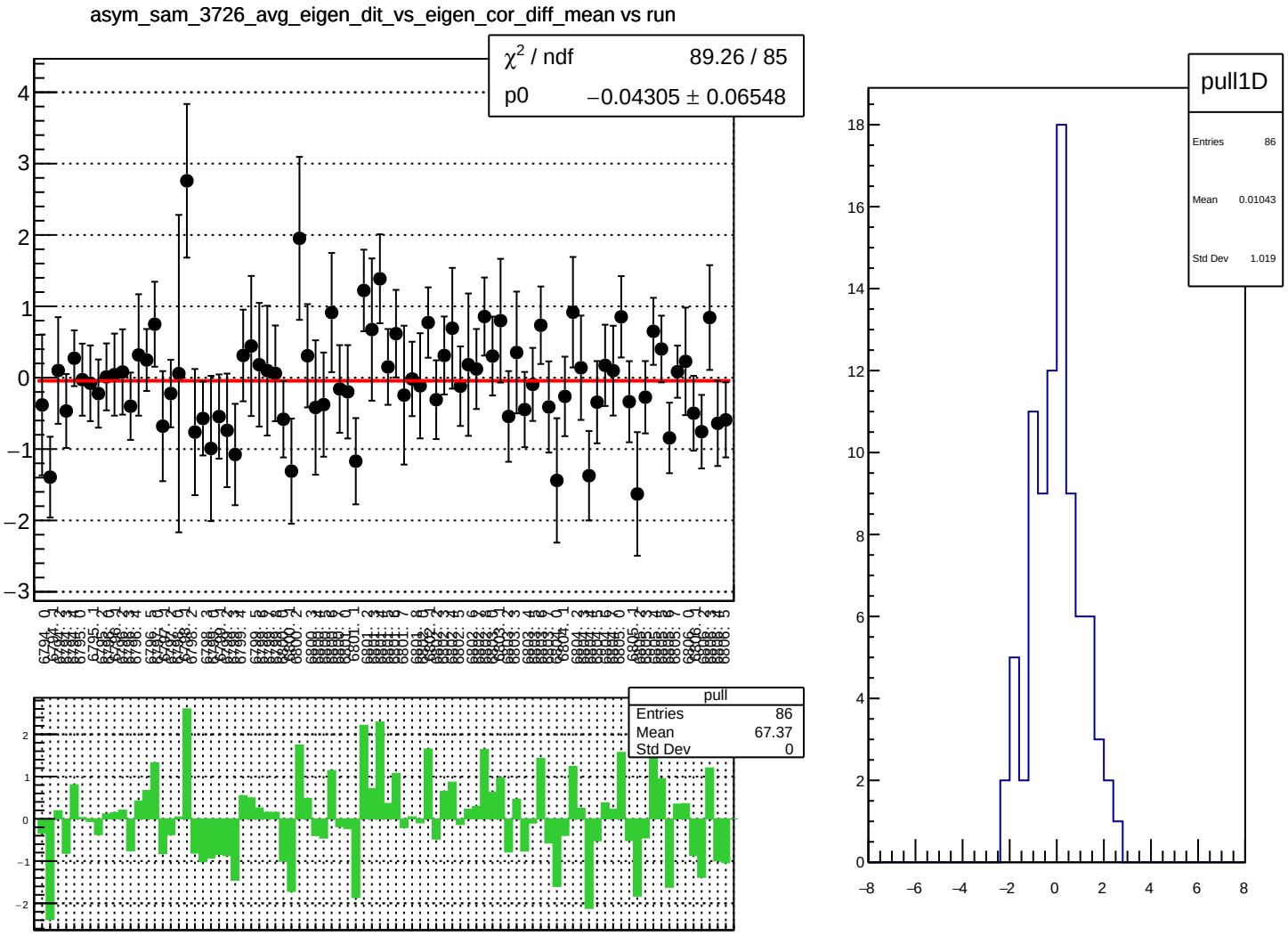

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.31 / 85
p0 2.269e−06 ± 2.182e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −93.73
Std Dev 0
2
1
0
−1
−2
−3

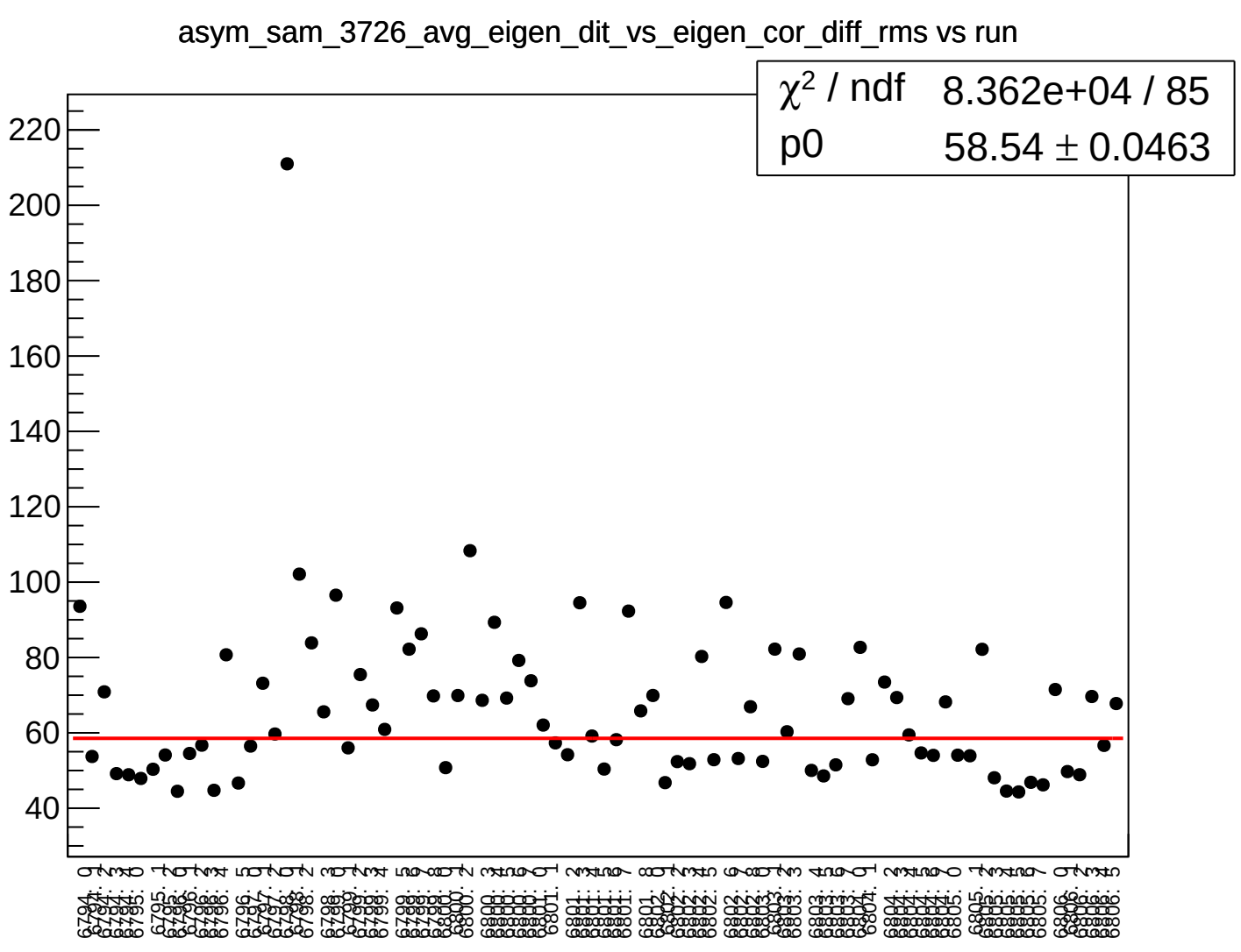

pull1D
Entries 86
Mean 0.02517
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

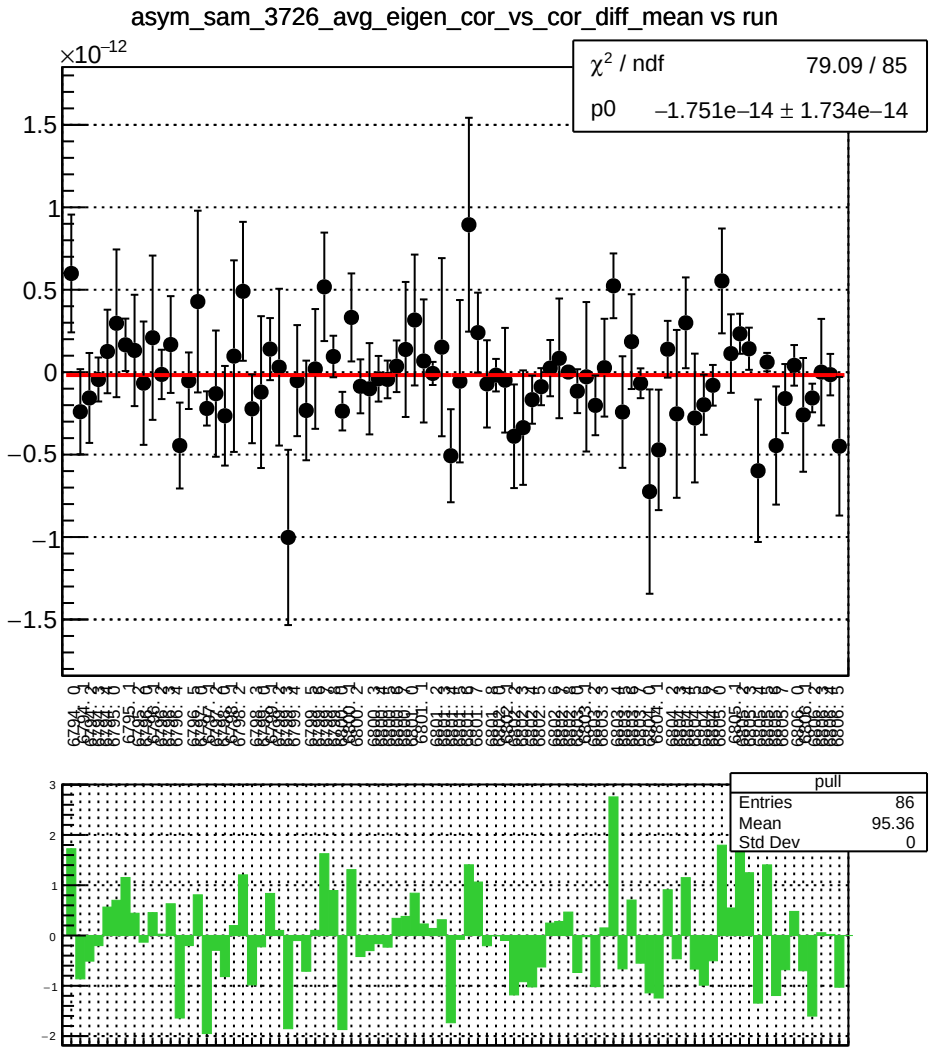

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4851 / 85
p0 0.001999 ± 1.543e−06
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

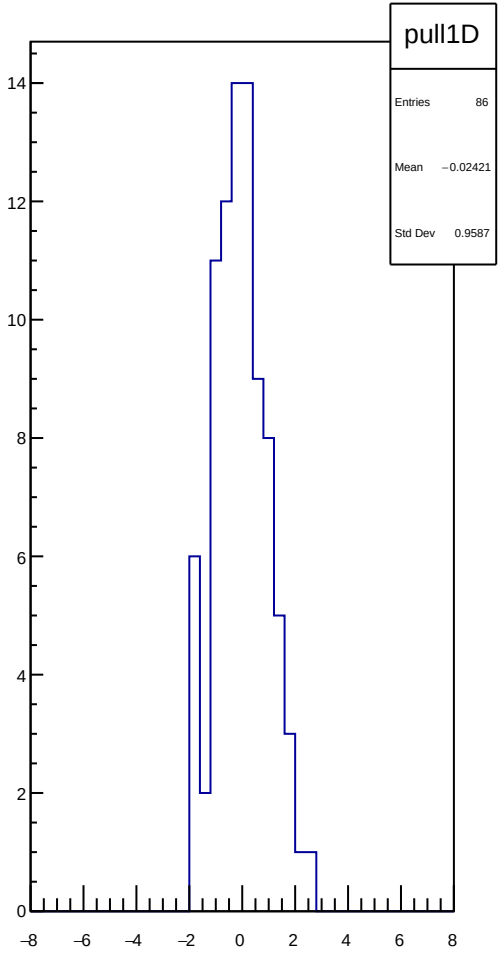

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.26 / 85
p0 −0.04305 ± 0.06548
pull
Entries 86
Mean 67.37
Std Dev 0
pull1D
Entries 86
Mean 0.01043
Std Dev 1.019

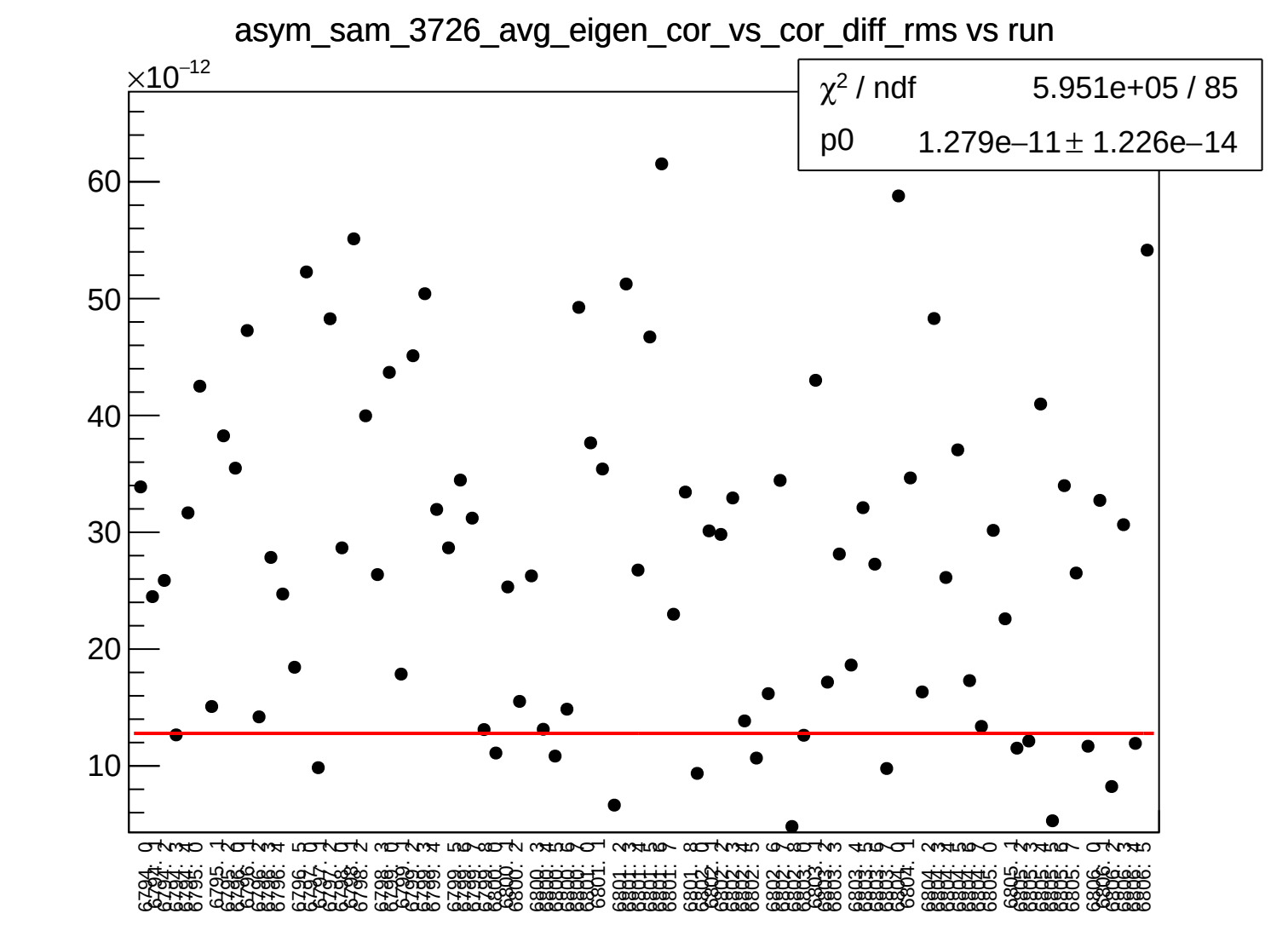

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.362e+04 / 85
p0 58.54 ± 0.0463
220
200
180
160
140
120
100
80
60
40

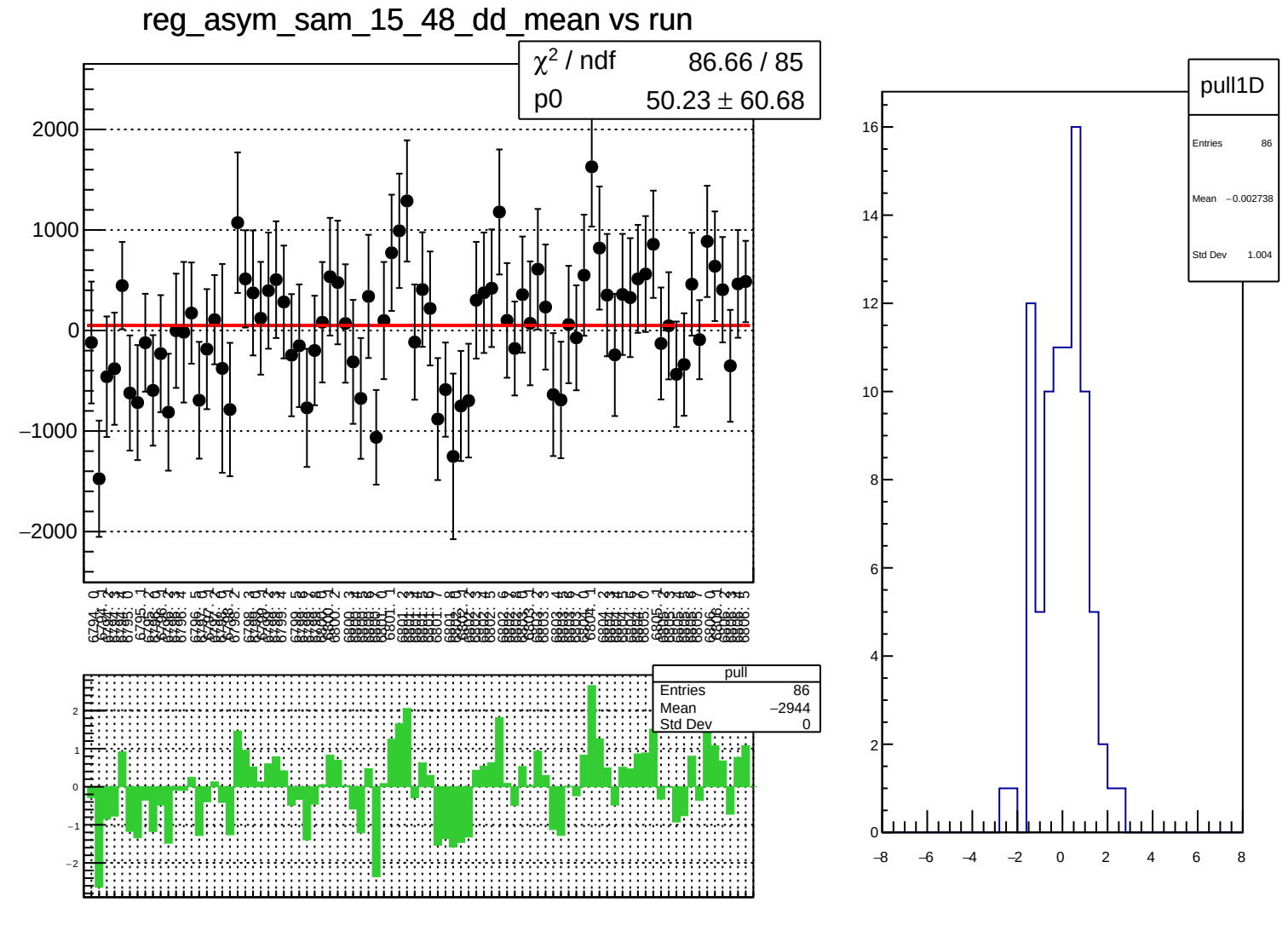

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.26 / 85
p0 −0.04305 ± 0.06548
pull
Entries 86
Mean 67.37
Std Dev 0
pull1D
Entries 86
Mean 0.01043
Std Dev 1.019

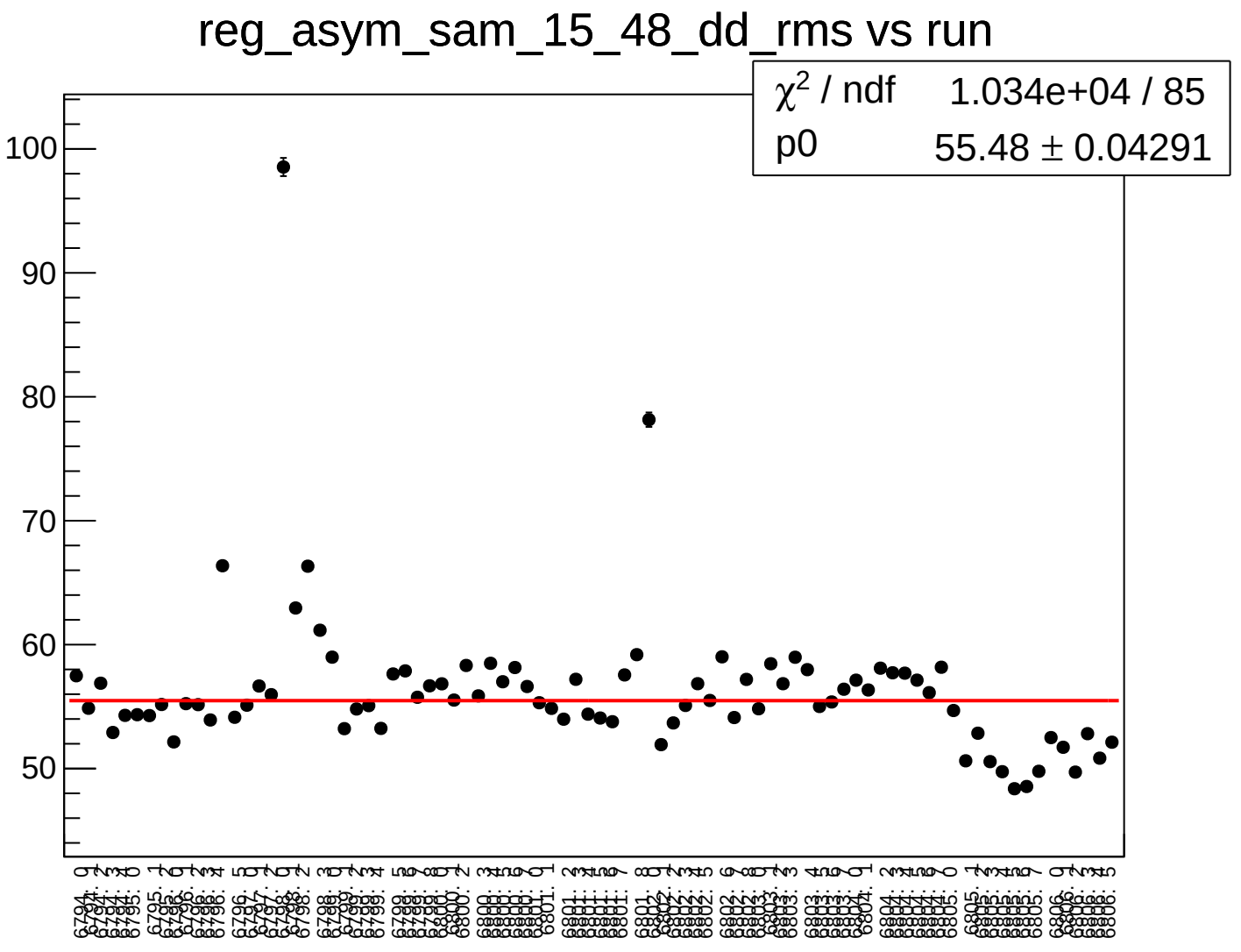

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.362e+04 / 85
p0 58.54 ± 0.0463
220
200
180
160
140
120
100
80
60
40

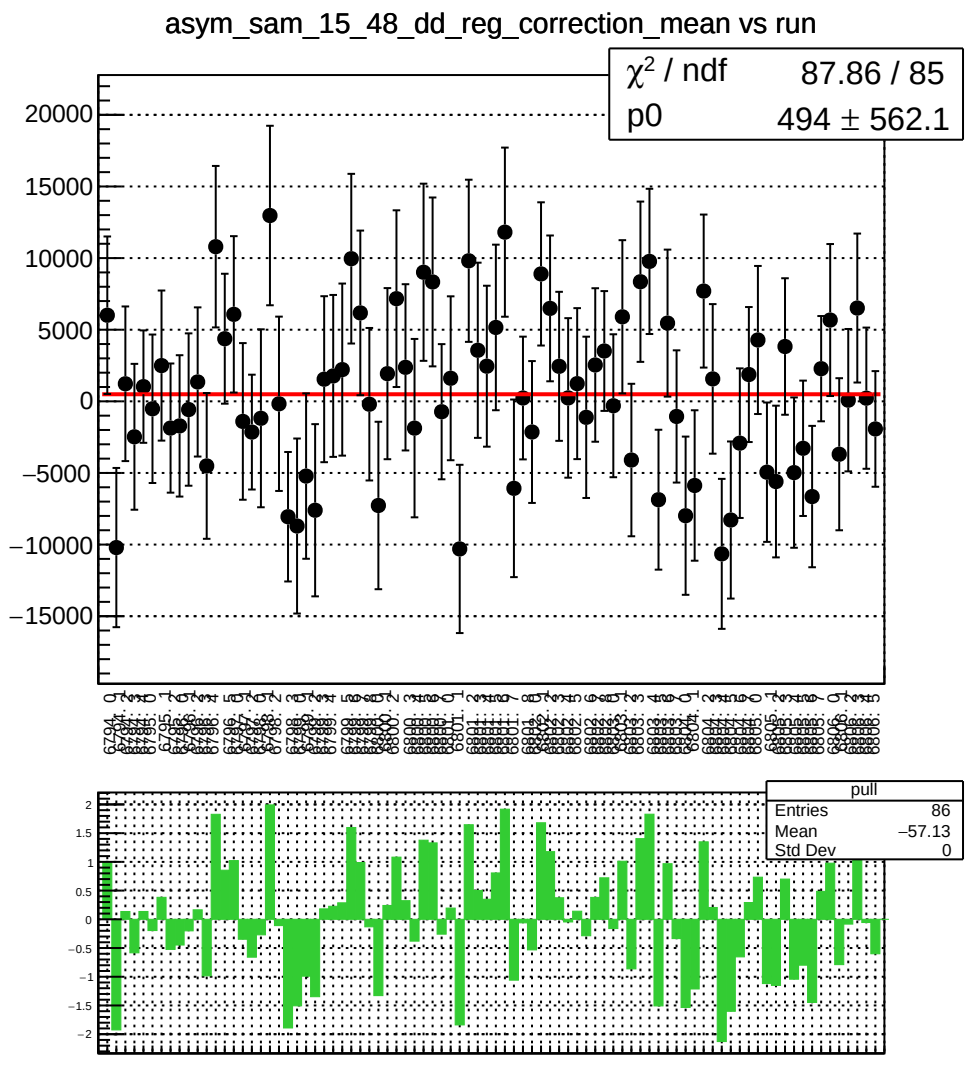

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.09 / 85
p0 −1.751e−14 ± 1.734e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 86
Mean 95.36
Std Dev 0
3
2
1
0
−1
−2

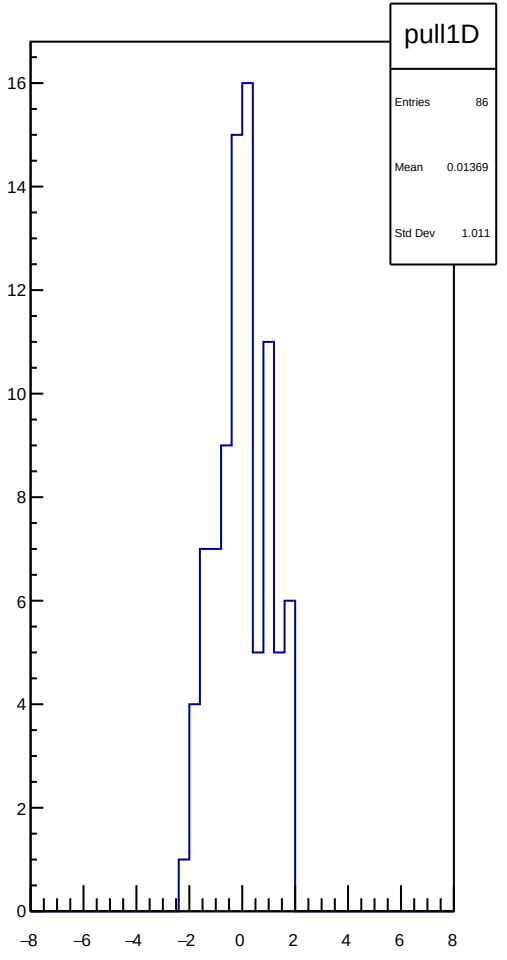

pull1D
Entries 86
Mean −0.02421
Std Dev 0.9587
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

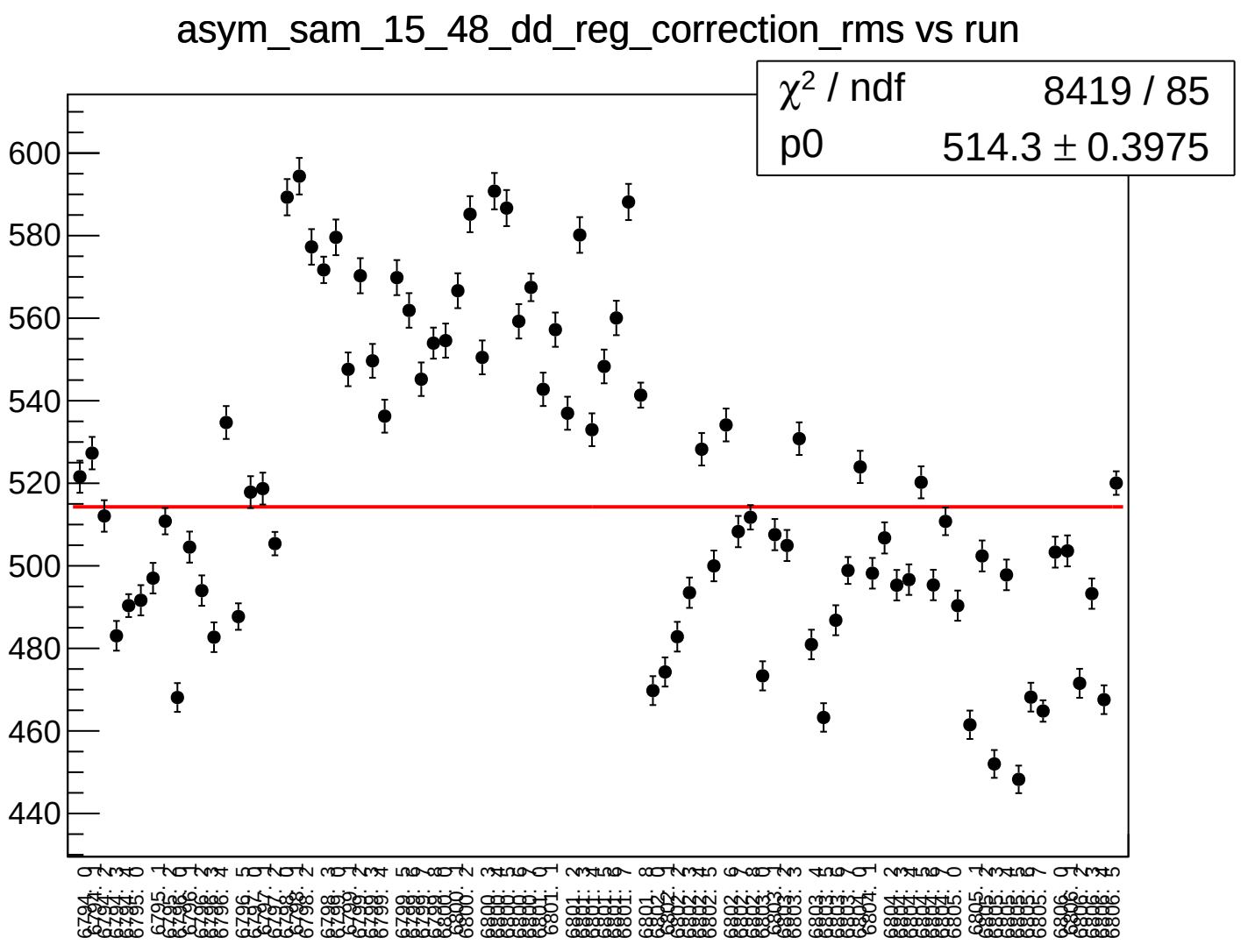

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.951e+05 / 85
p0 1.279e−11 ± 1.226e−14
60
50
40
30
20
10

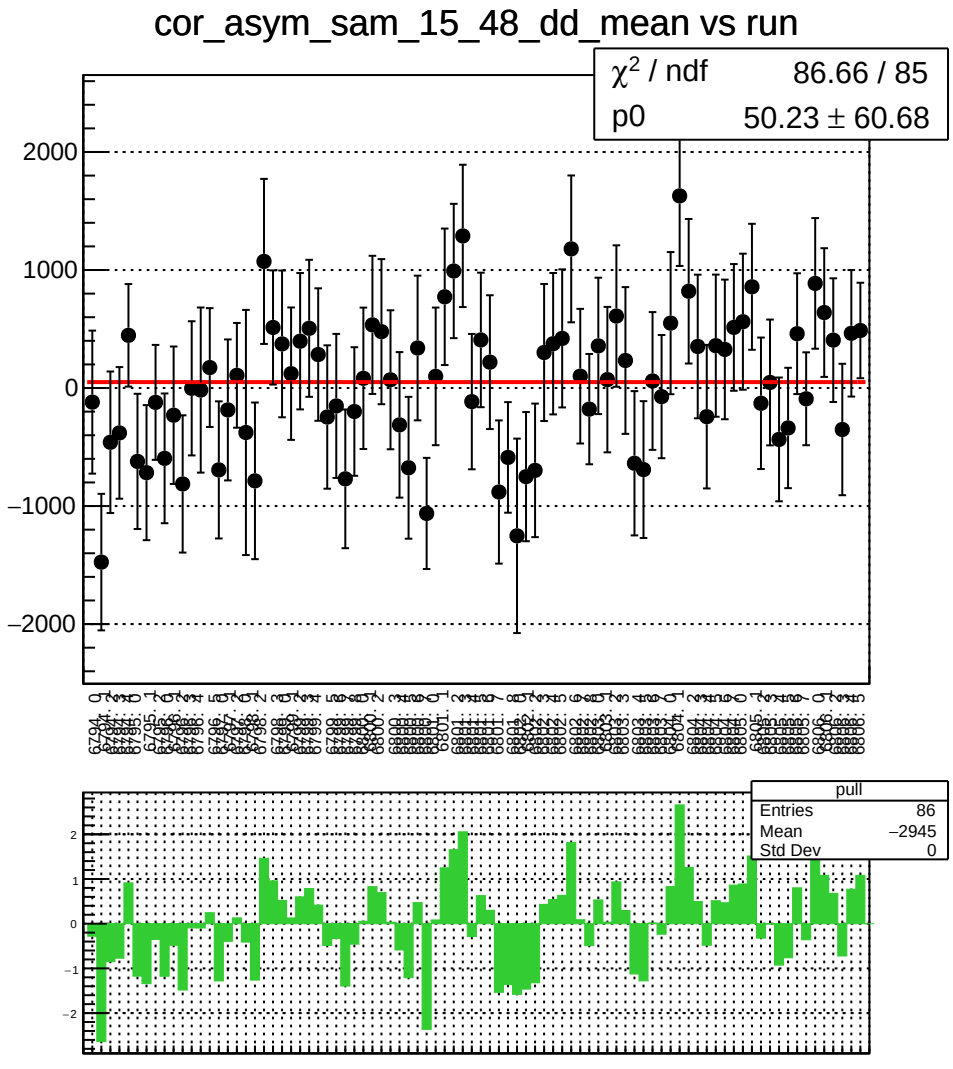

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.66 / 85
p0 50.23 ± 60.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −2944
Std Dev 0
pull1D
Entries 86
Mean −0.002738
Std Dev 1.004

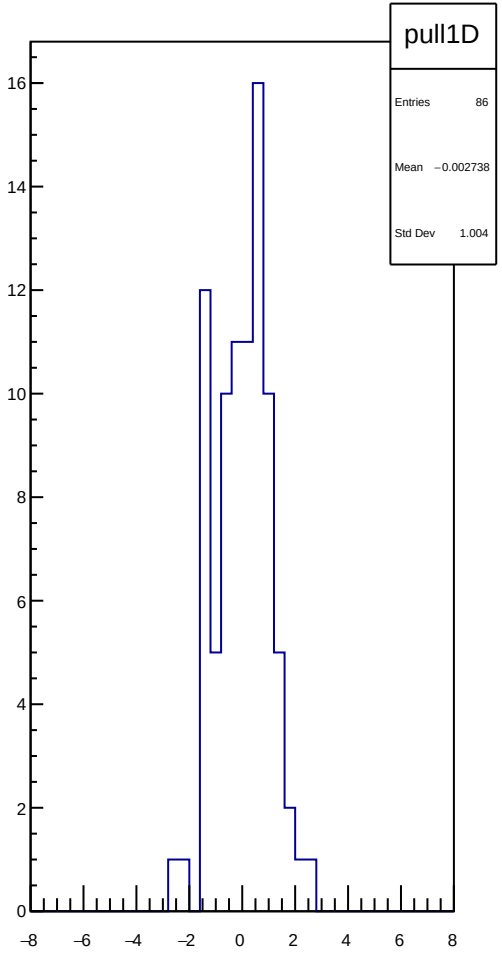

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.034e+04 / 85
p0 55.48 ± 0.04291
100
90
80
70
60
50

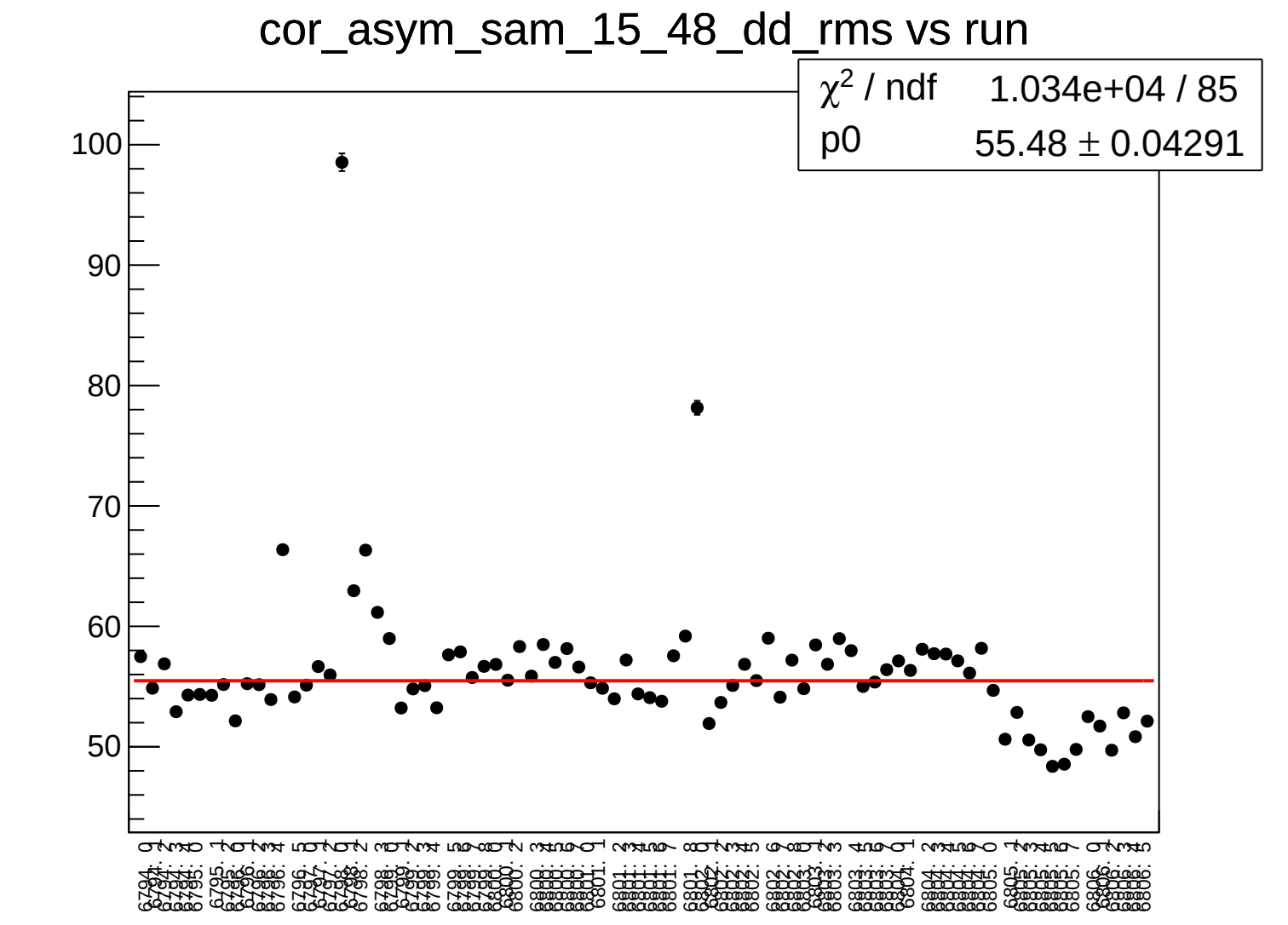

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 87.86 / 85
p0 494 ± 562.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

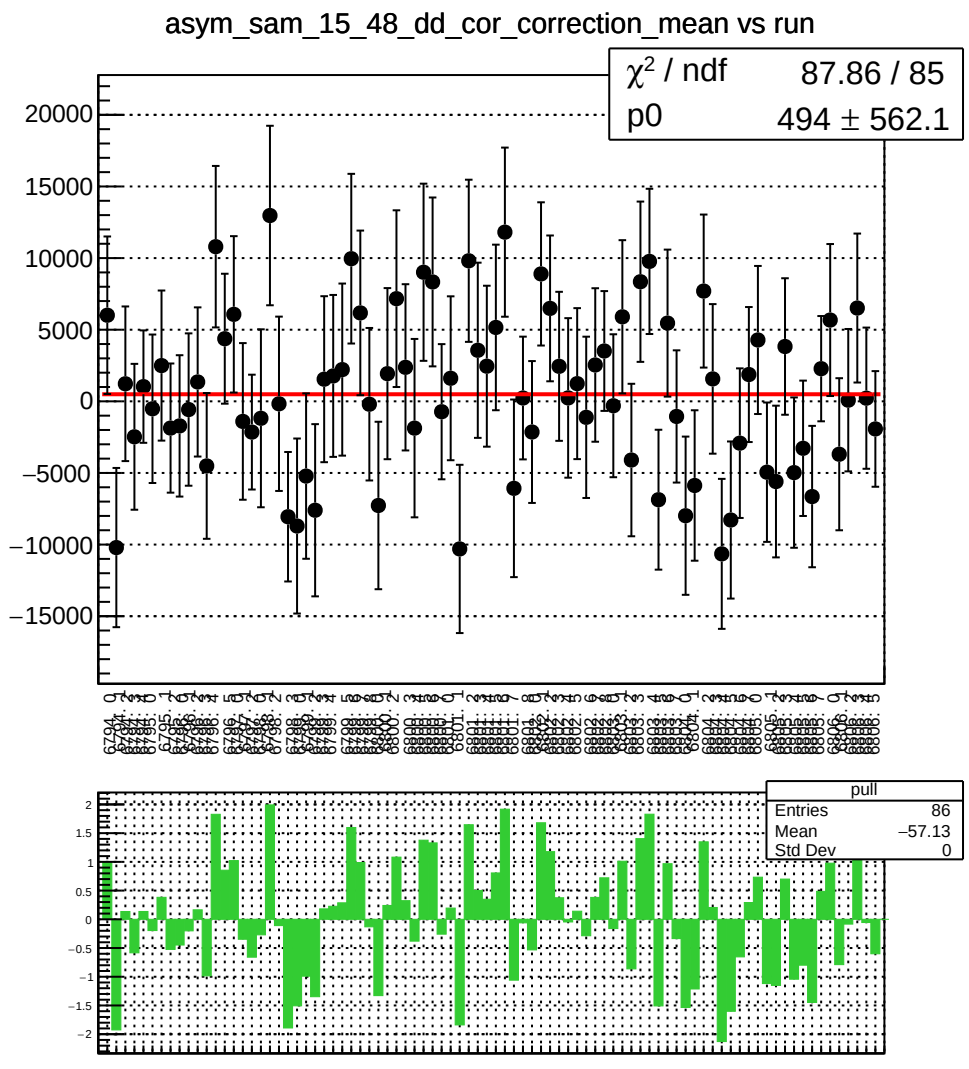

pull1D
Entries 86
Mean 0.01369
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

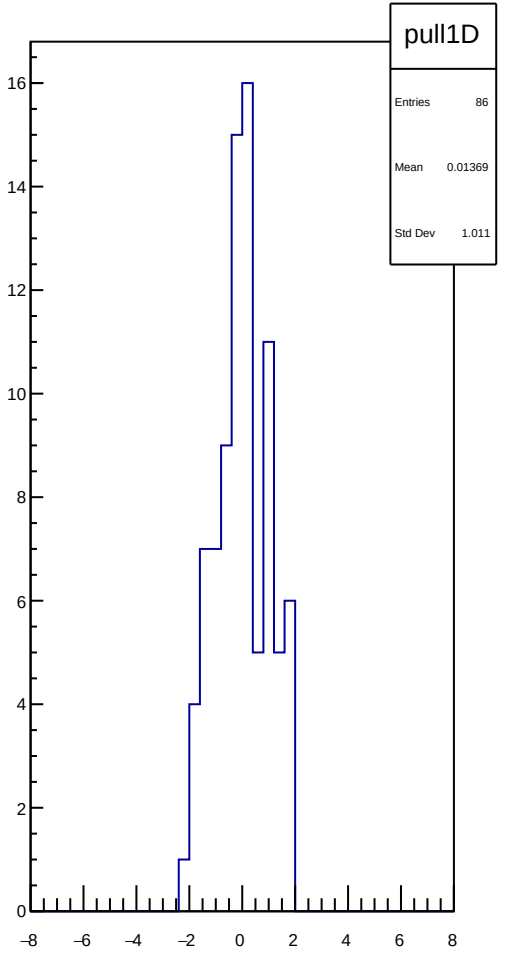

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 8419 / 85
p0 514.3 ± 0.3975
600
580
560
540
520
500
480
460
440

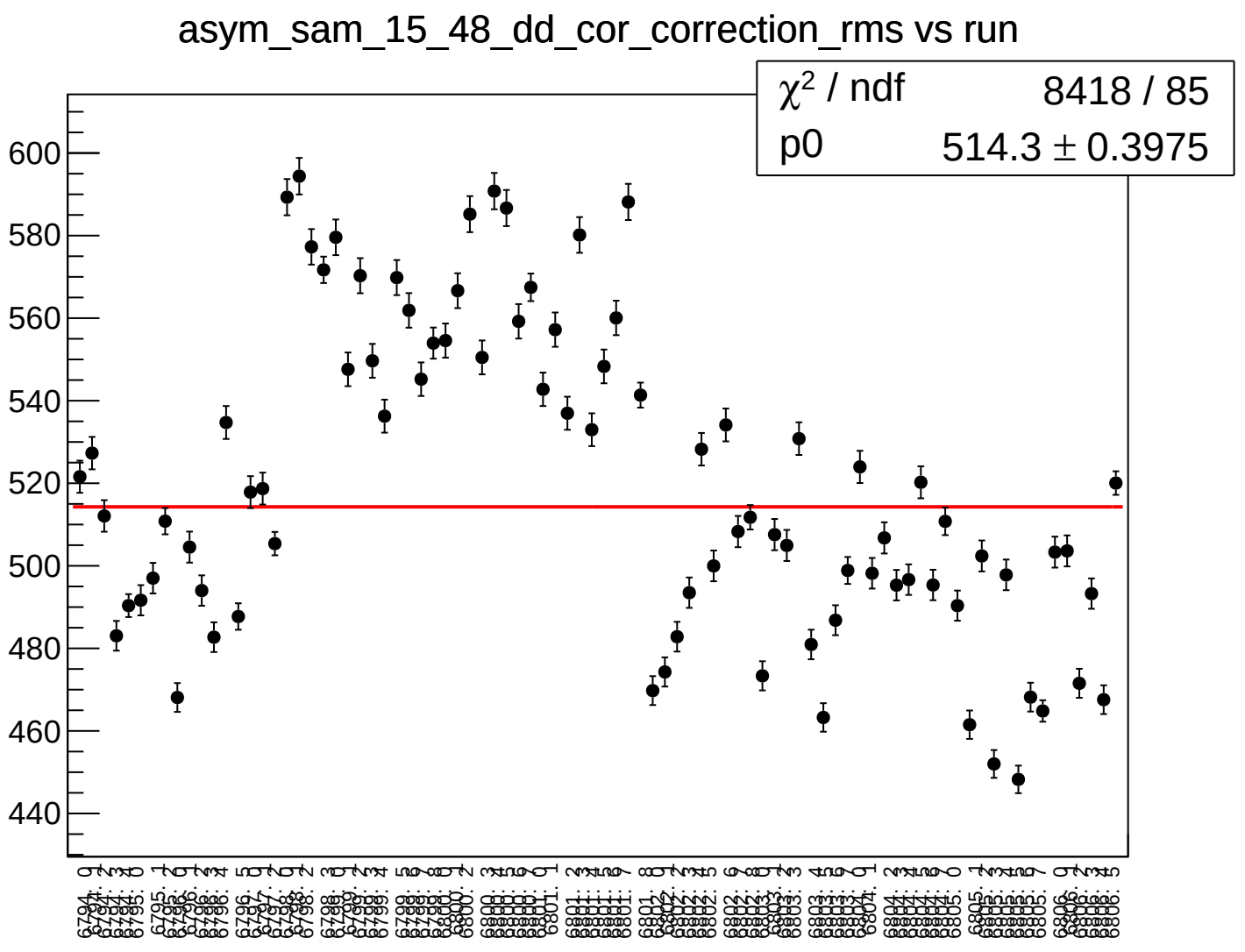

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.66 / 85
p0 50.23 ± 60.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −2945
Std Dev 0
2
1
0
−1
−2

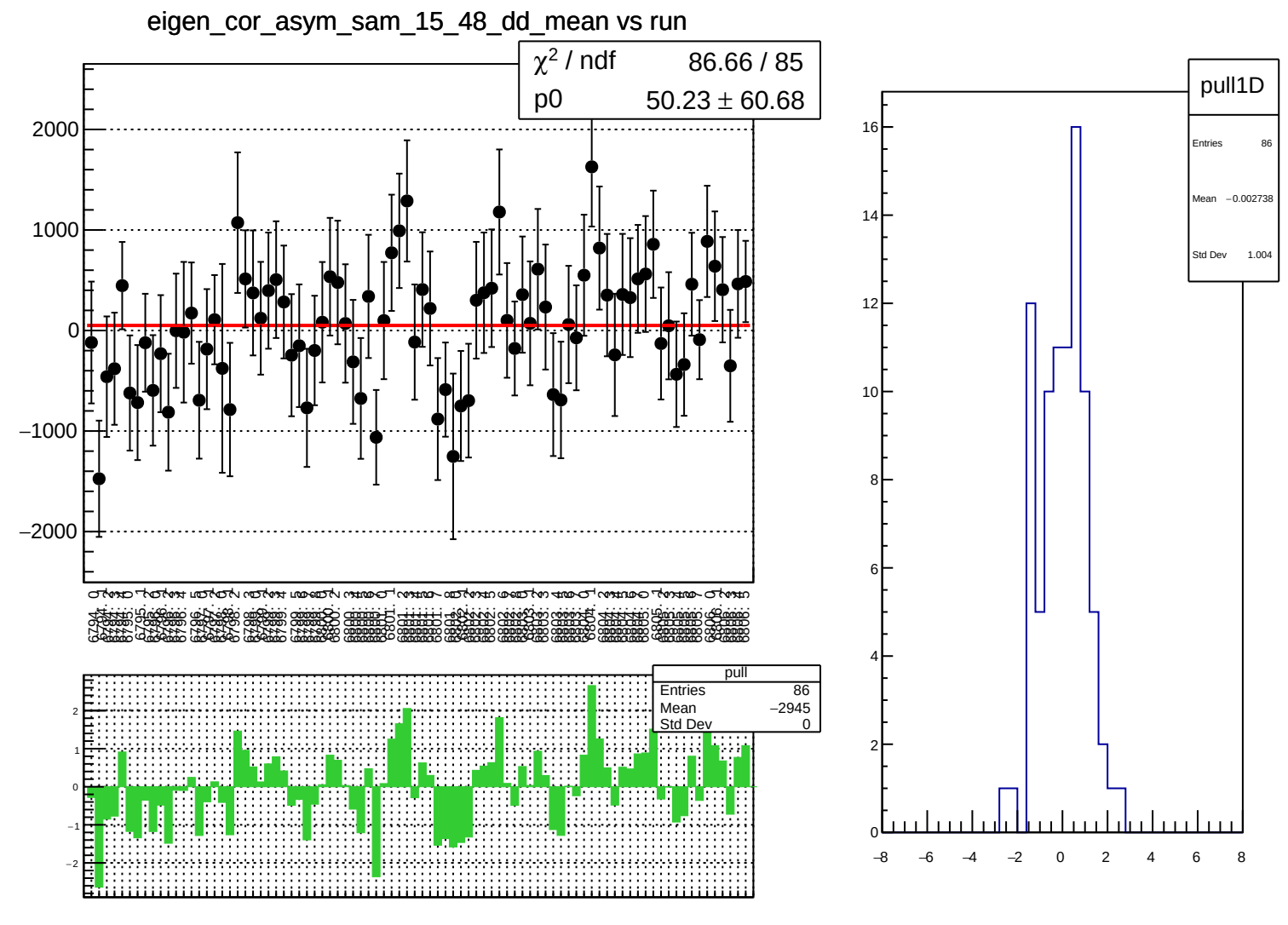

pull1D
Entries 86
Mean −0.002738
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

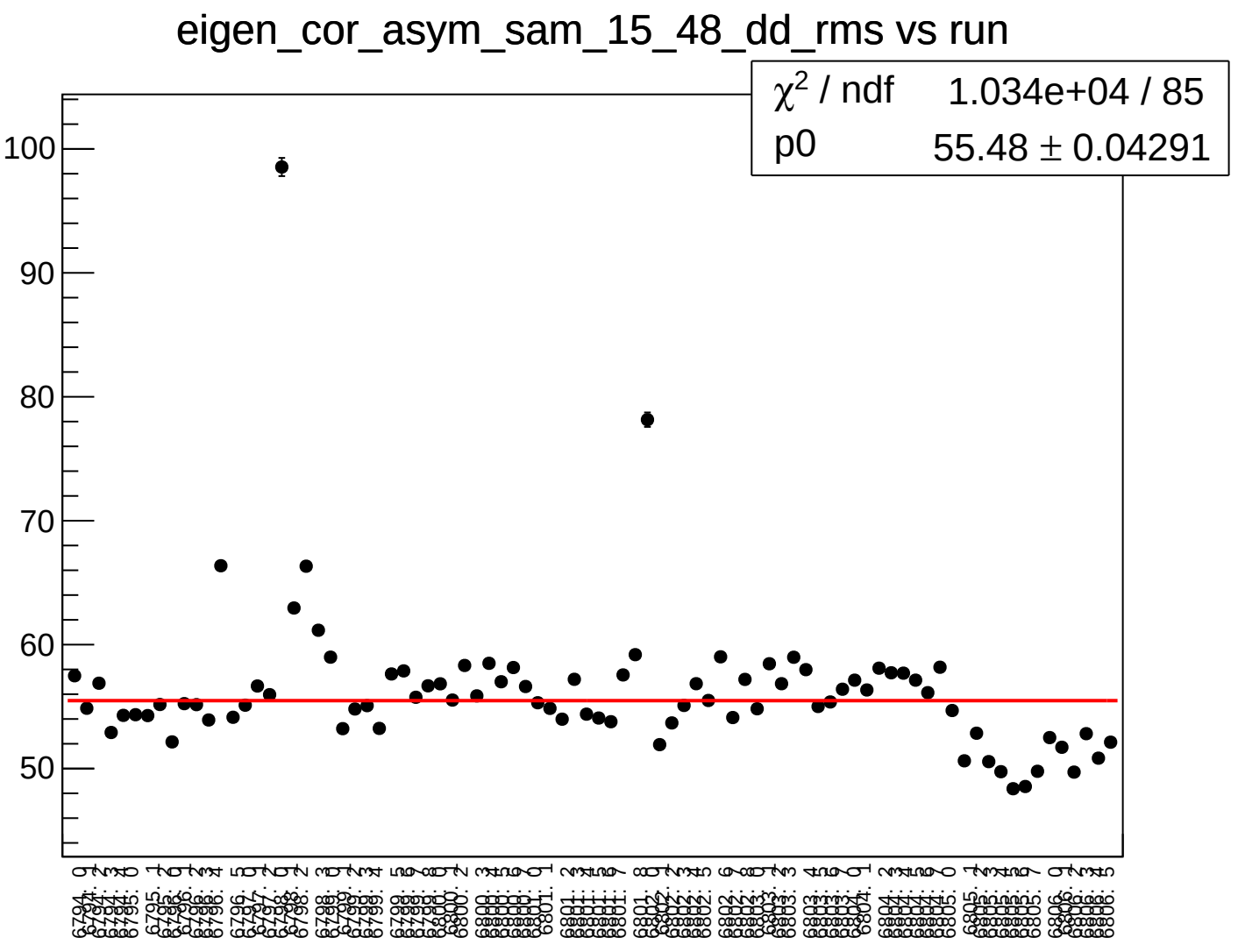

cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.034e+04 / 85
p0 55.48 ± 0.04291
100
90
80
70
60
50

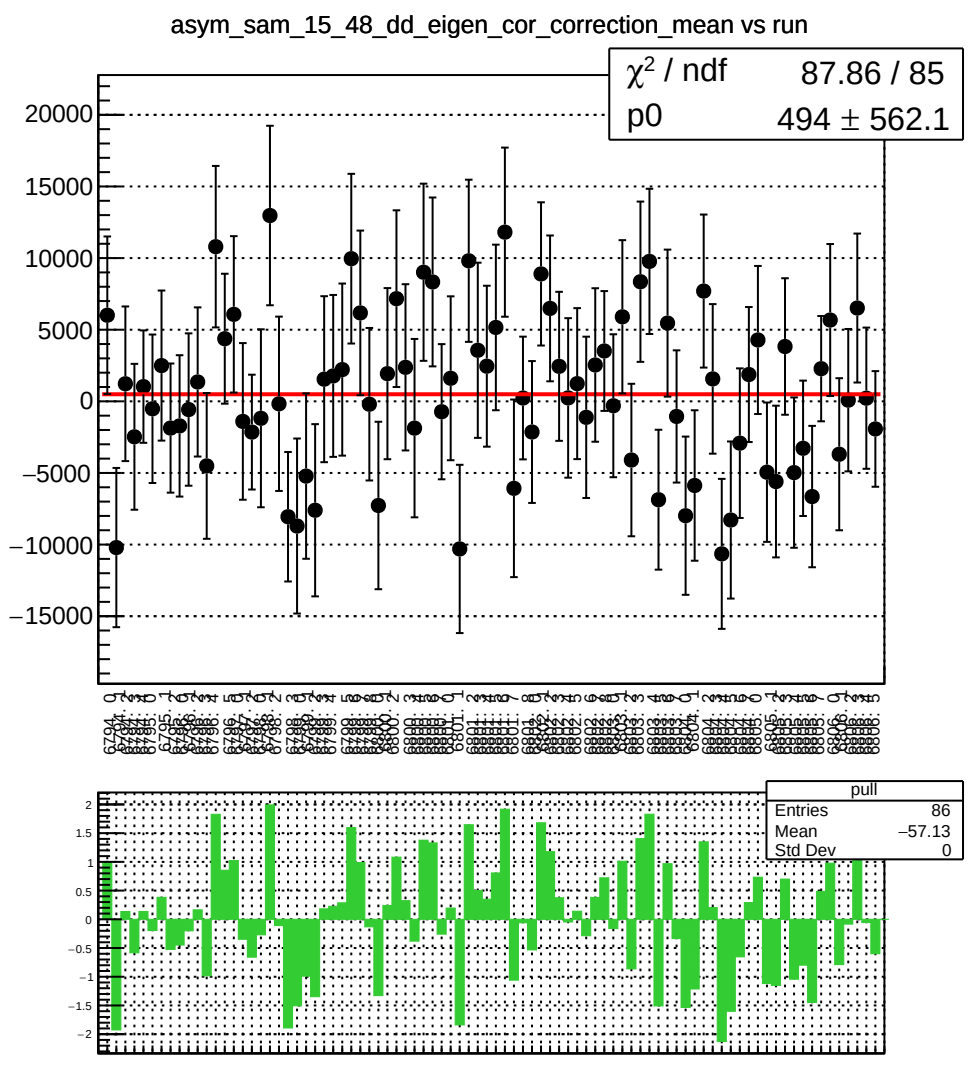

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 87.86 / 85
p0 494 ± 562.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

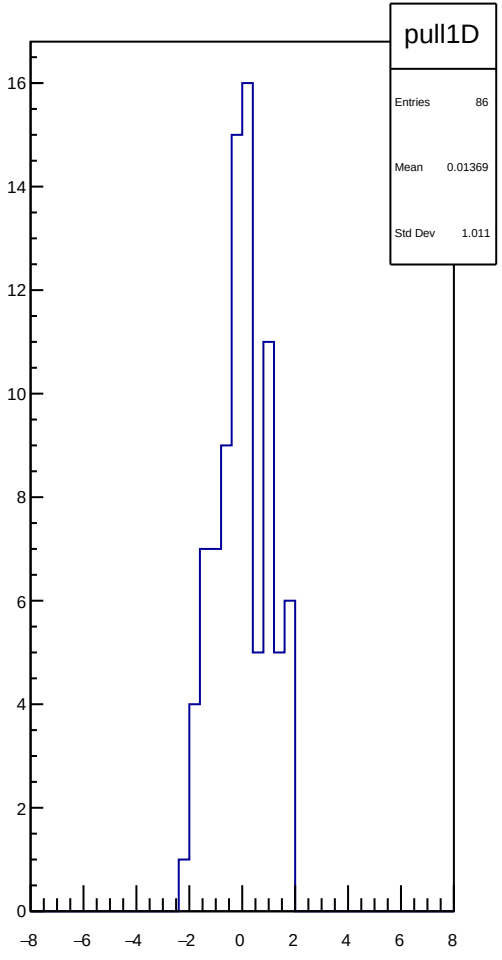

pull1D
Entries 86
Mean 0.01369
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

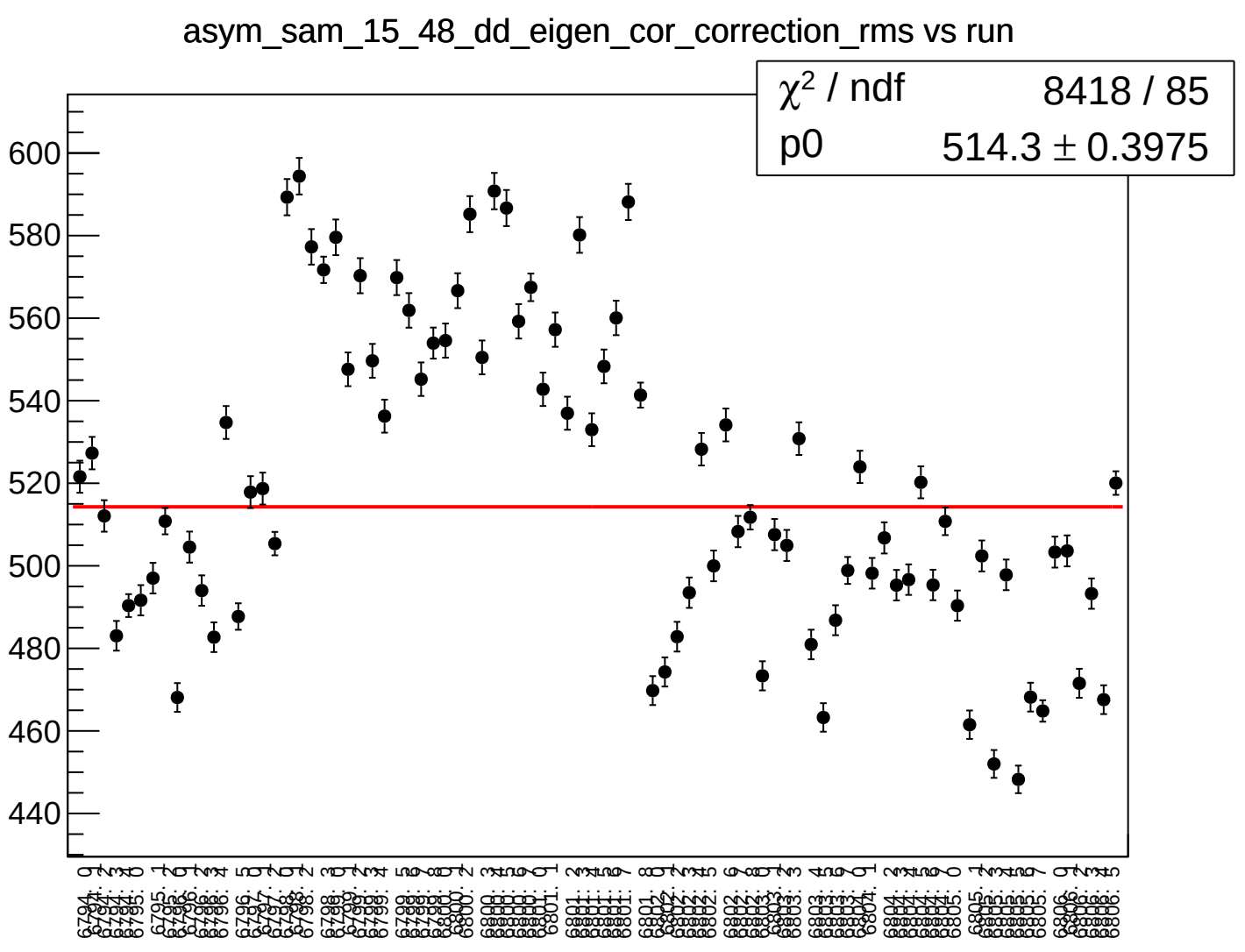

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 8418 / 85
p0 514.3 ± 0.3975
600
580
560
540
520
500
480
460
440

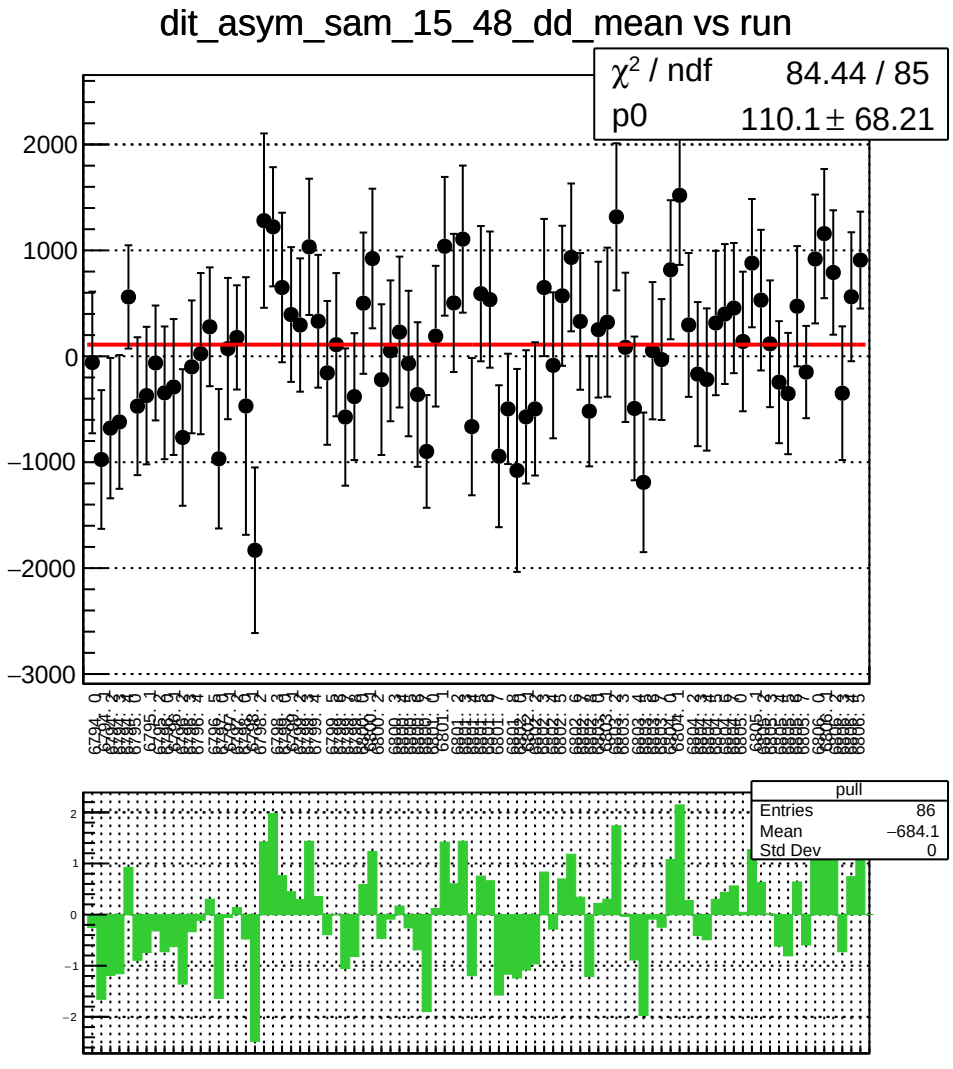

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 86.66 / 85
p0 50.23 ± 60.68
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −2945
Std Dev 0
pull1D
Entries 86
Mean −0.002738
Std Dev 1.004

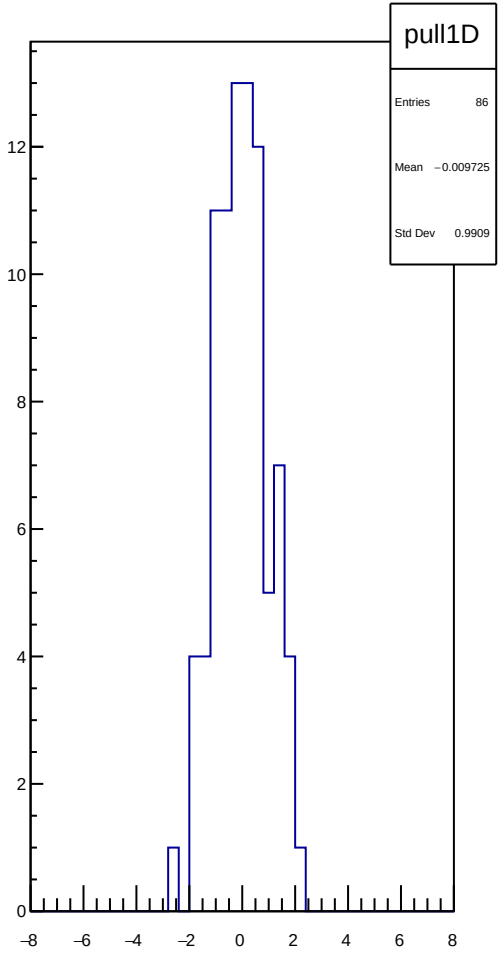

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.034e+04 / 85
p0 55.48 ± 0.04291
100
90
80
70
60
50

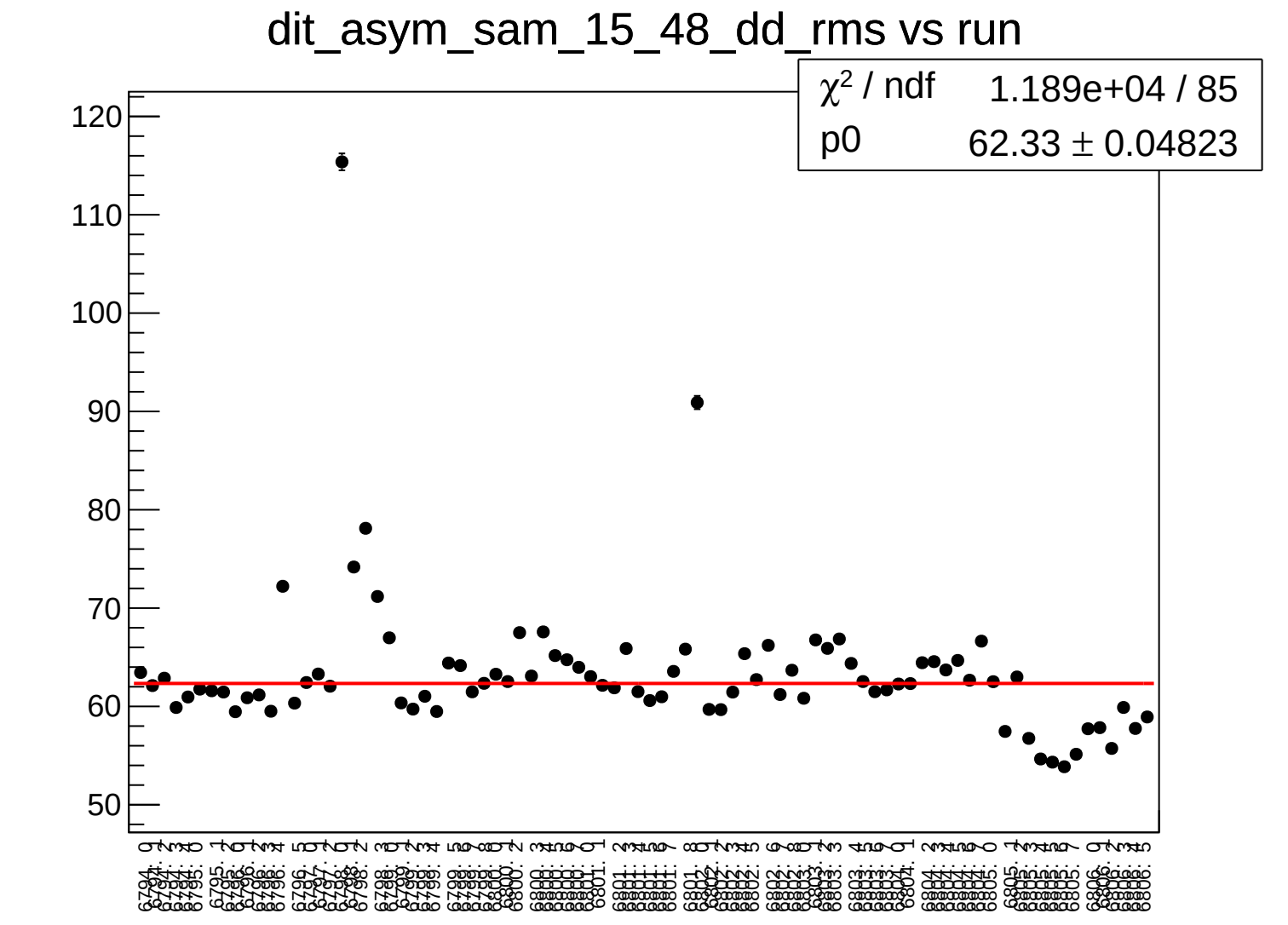

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.86 / 85
p0 494 ± 562.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −57.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

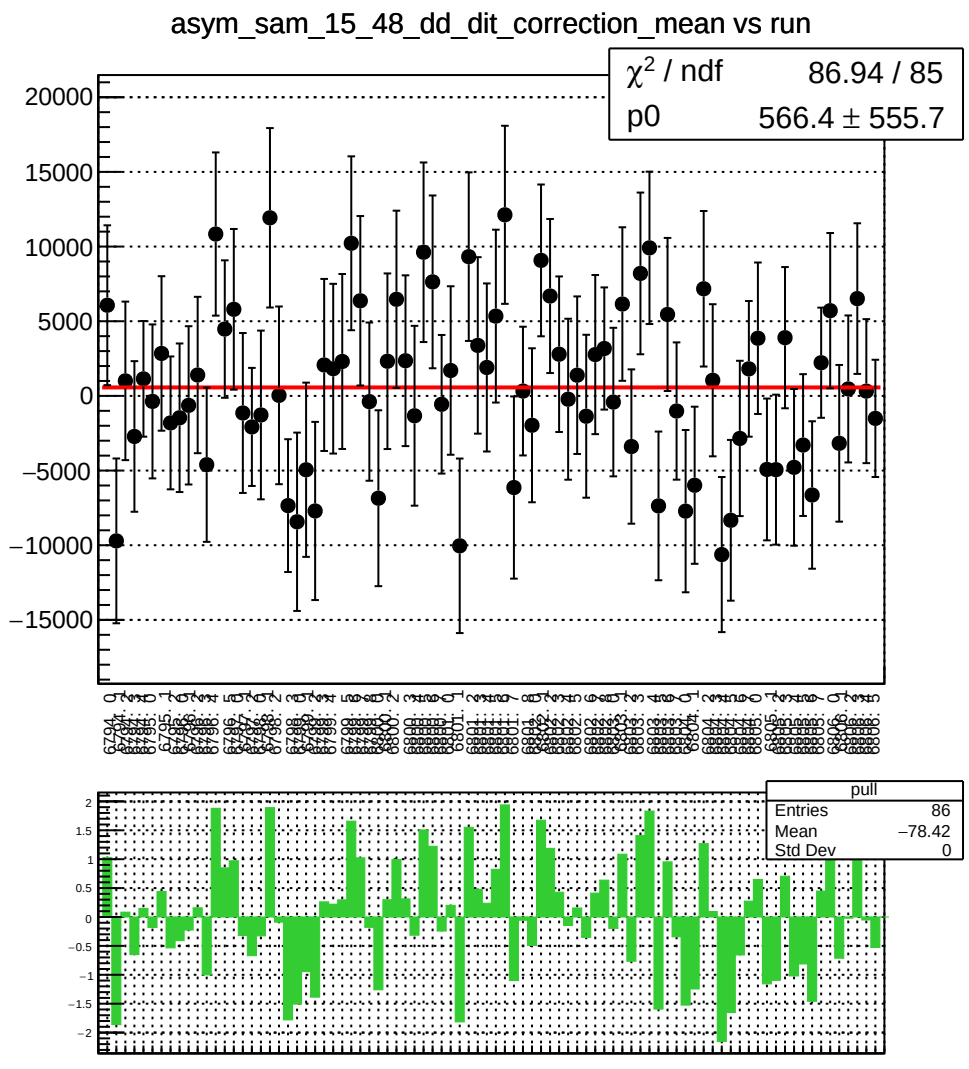

pull1D
Entries 86
Mean 0.01369
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

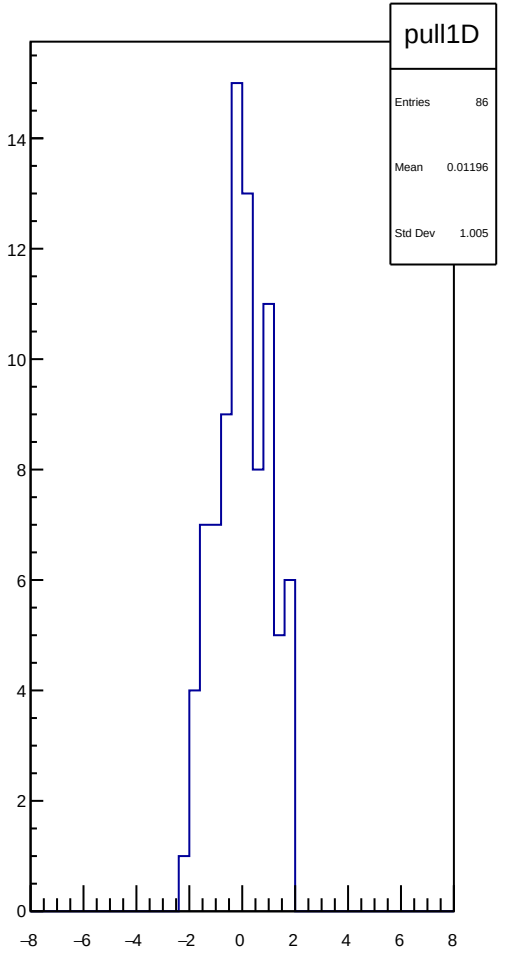

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 8418 / 85
p0 514.3 ± 0.3975
600
580
560
540
520
500
480
460
440

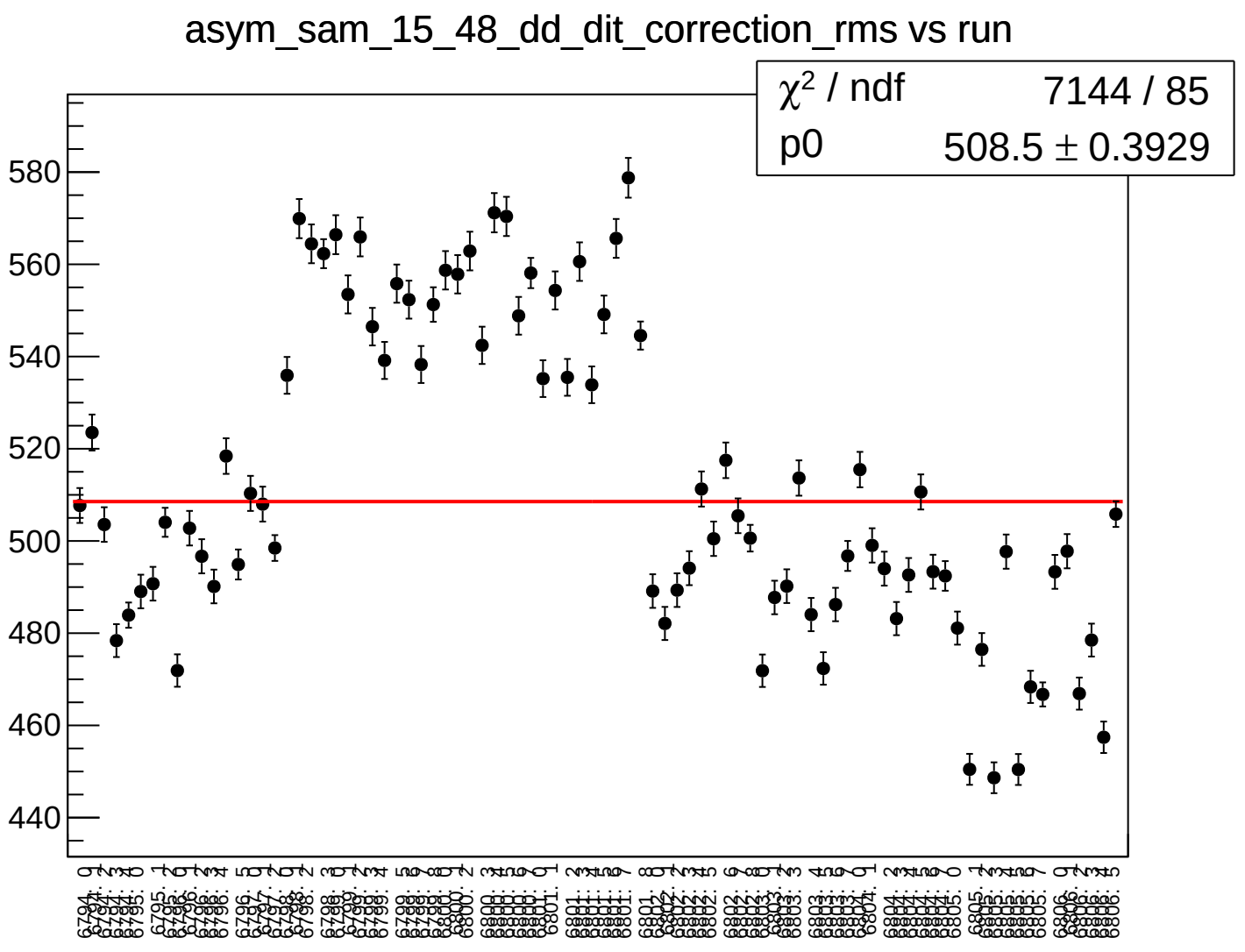

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.44 / 85
p0 110.1 ± 68.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −684.1
Std Dev 0
2
1
0
−1
−2

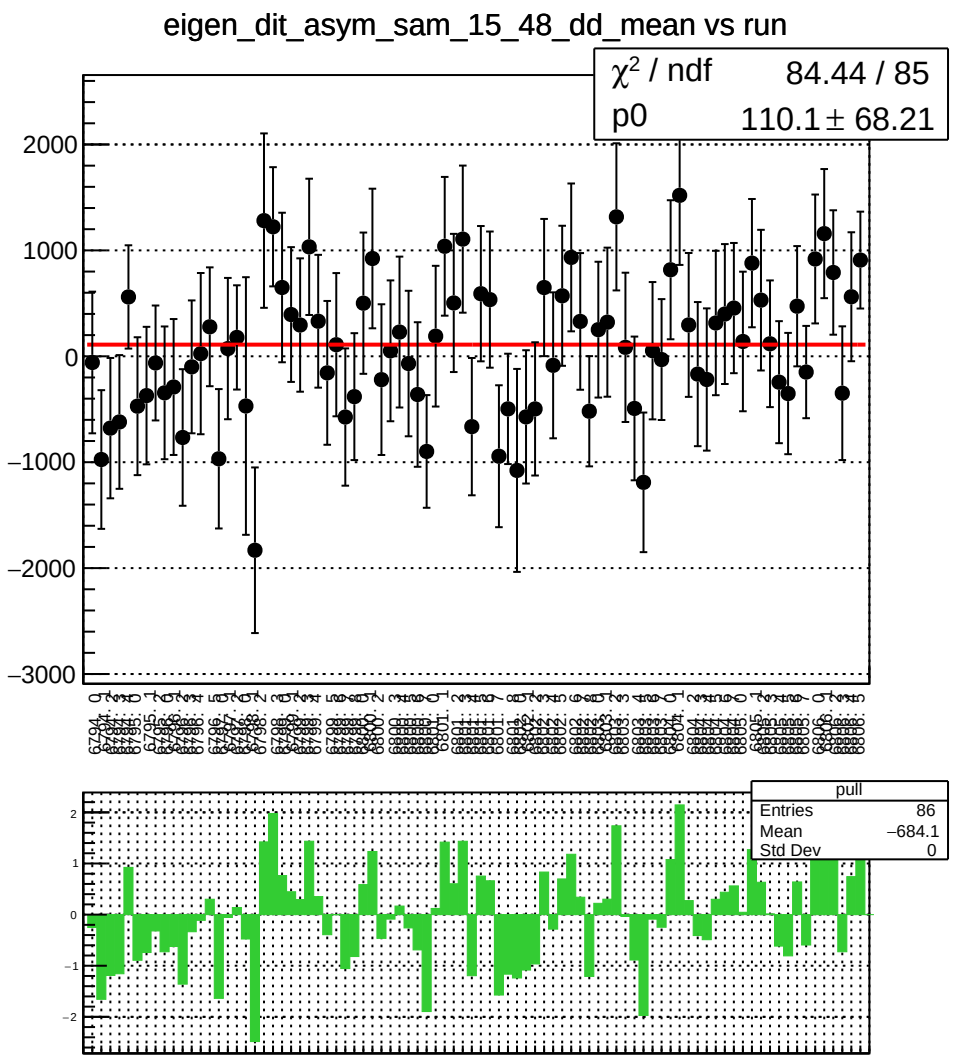

pull1D
Entries 86
Mean −0.009725
Std Dev 0.9909
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

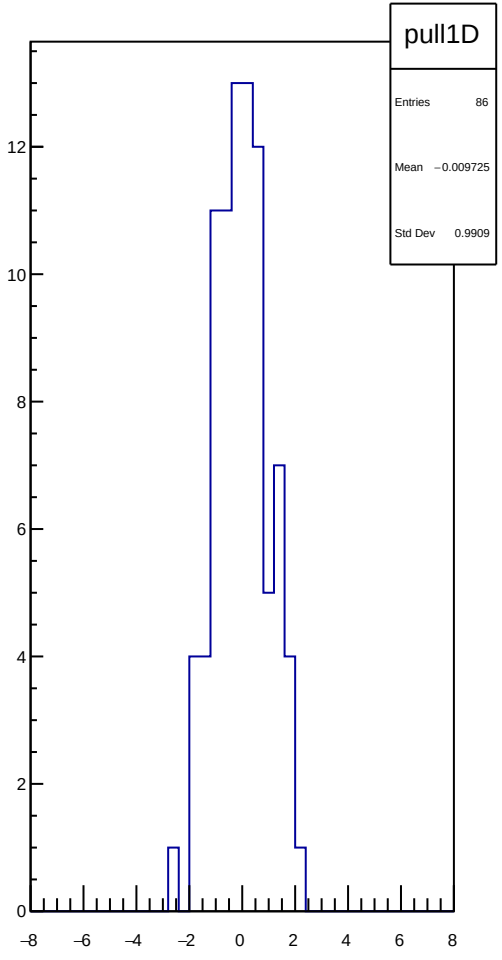

dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.189e+04 / 85
p0 62.33 ± 0.04823
120
110
100
90
80
70
60
50

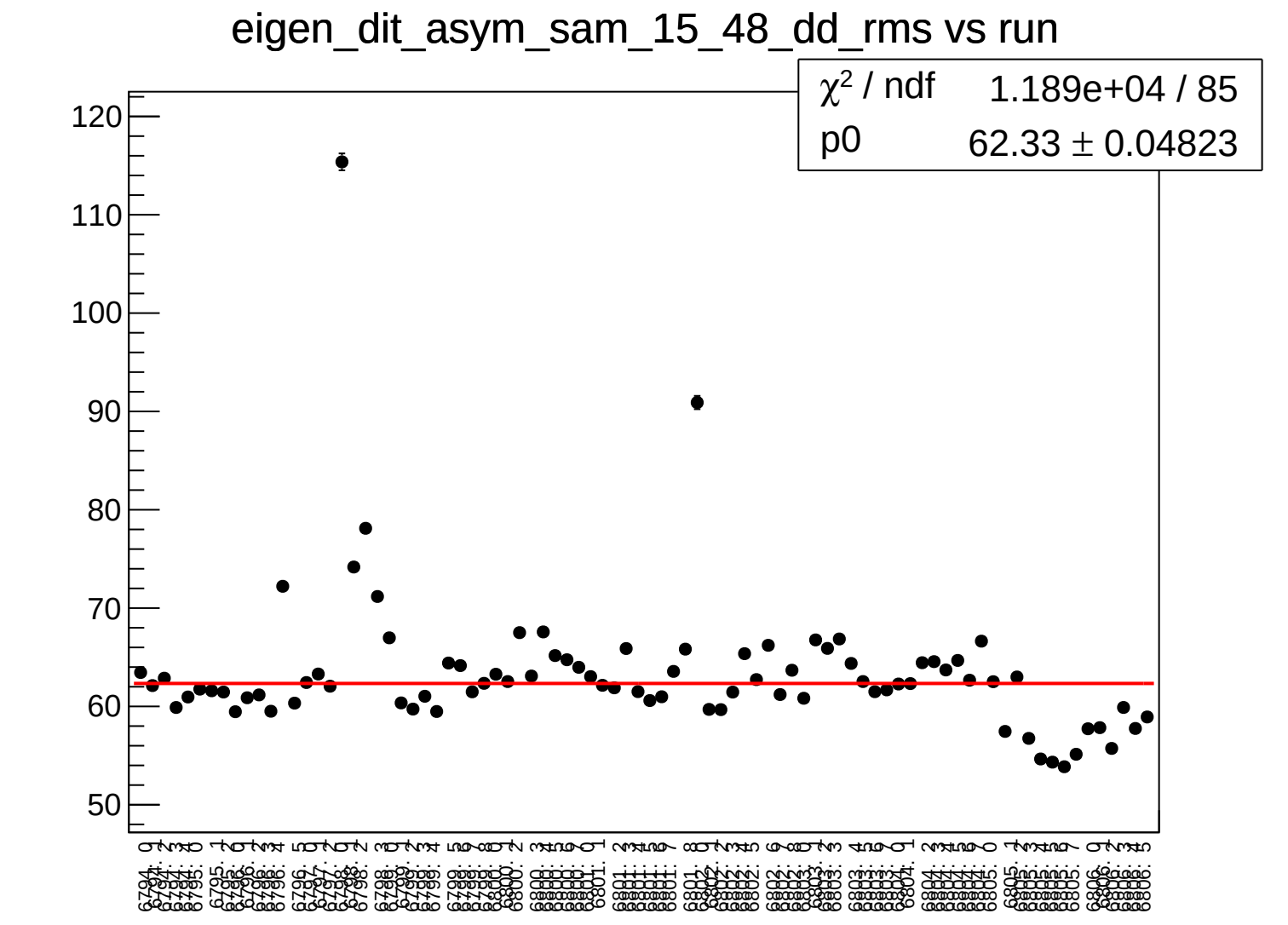

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 86.94 / 85
p0 566.4 ± 555.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −78.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

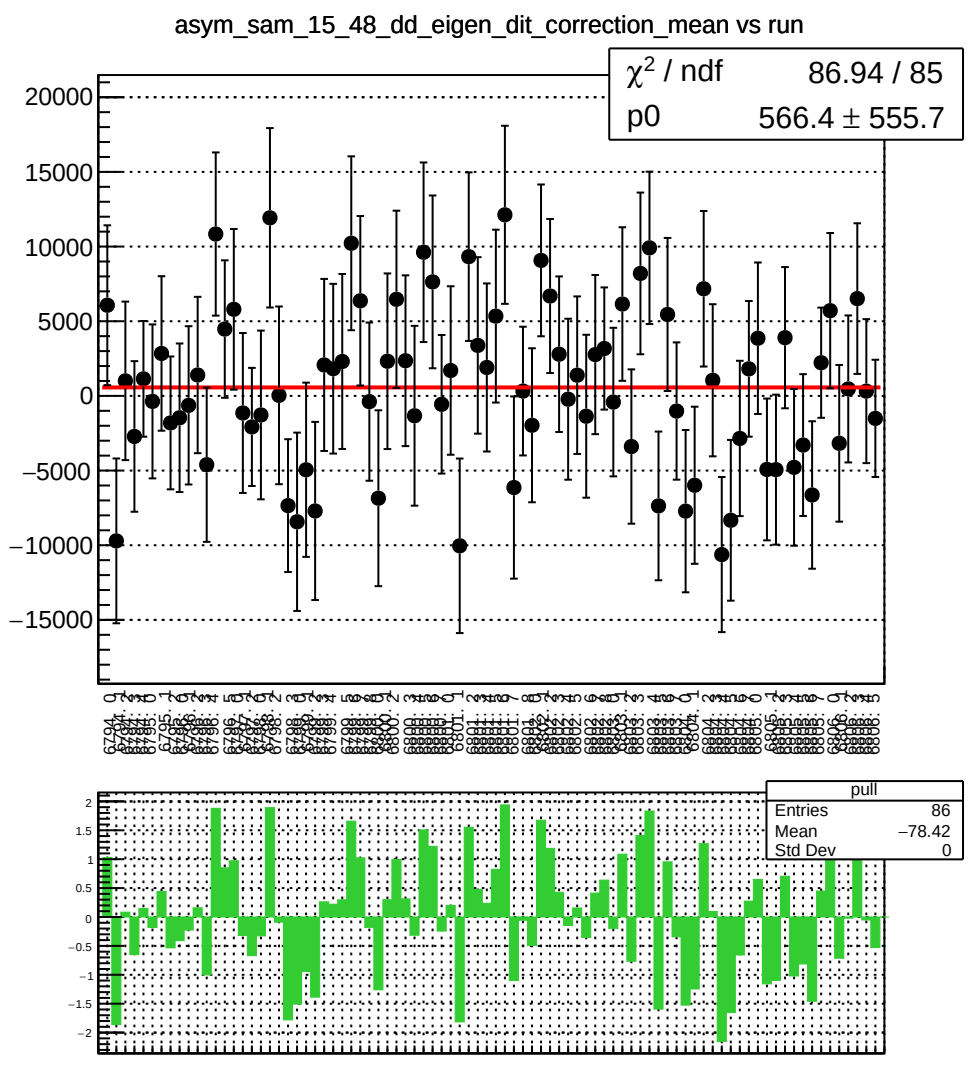

pull1D
Entries 86
Mean 0.01196
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

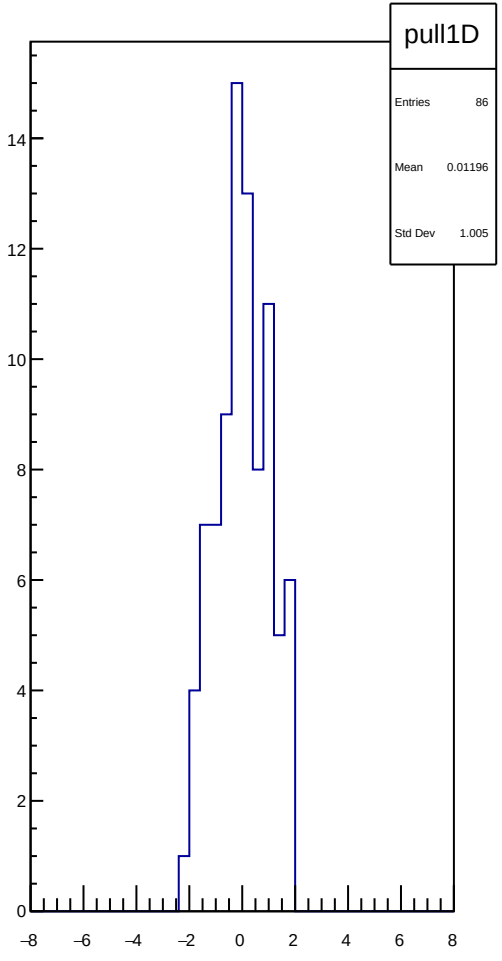

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 7144 / 85
p0 508.5 ± 0.3929
580
560
540
520
500
480
460
440

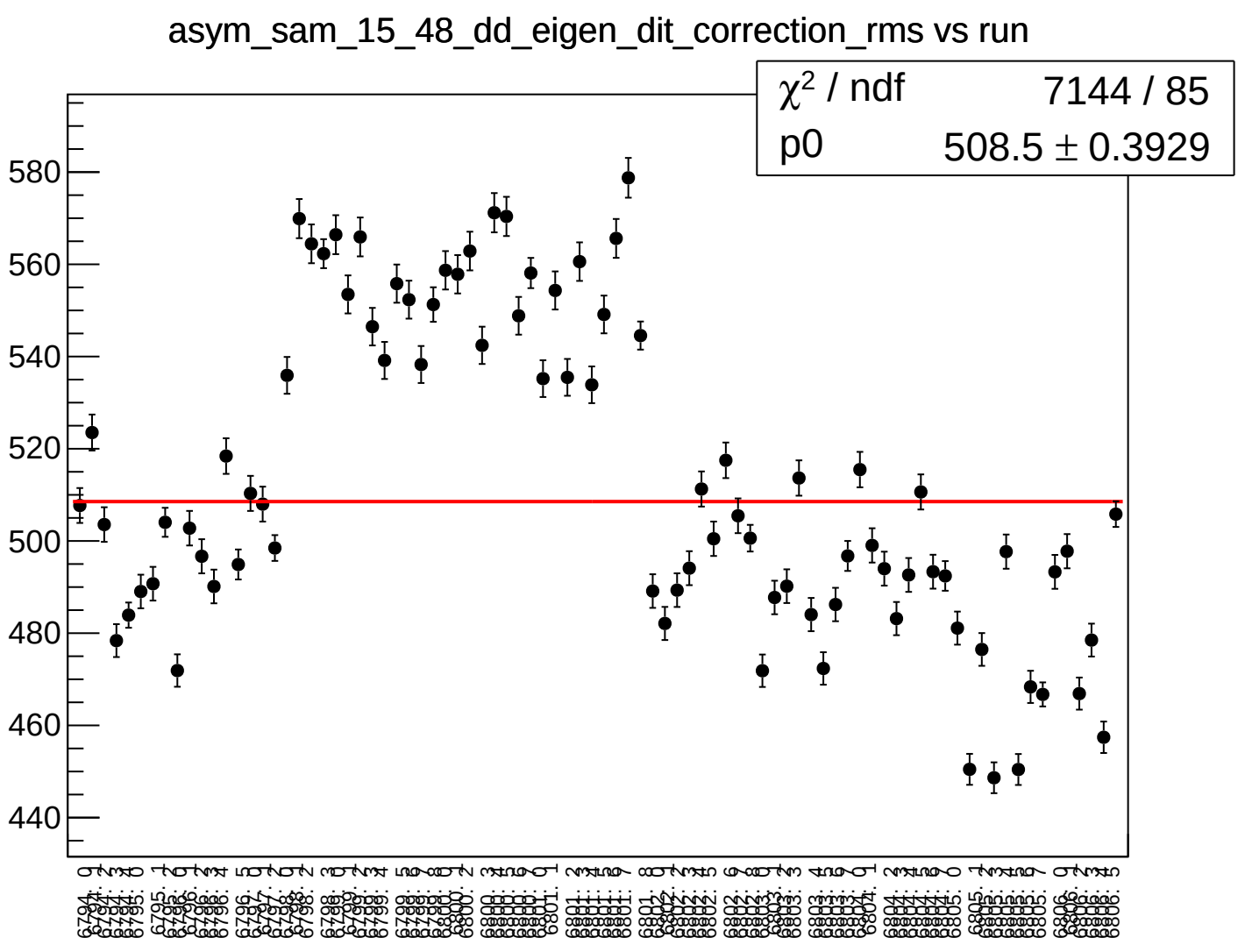

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 84.44 / 85
p0 110.1 ± 68.21
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −684.1
Std Dev 0
2
1
0
−1
−2

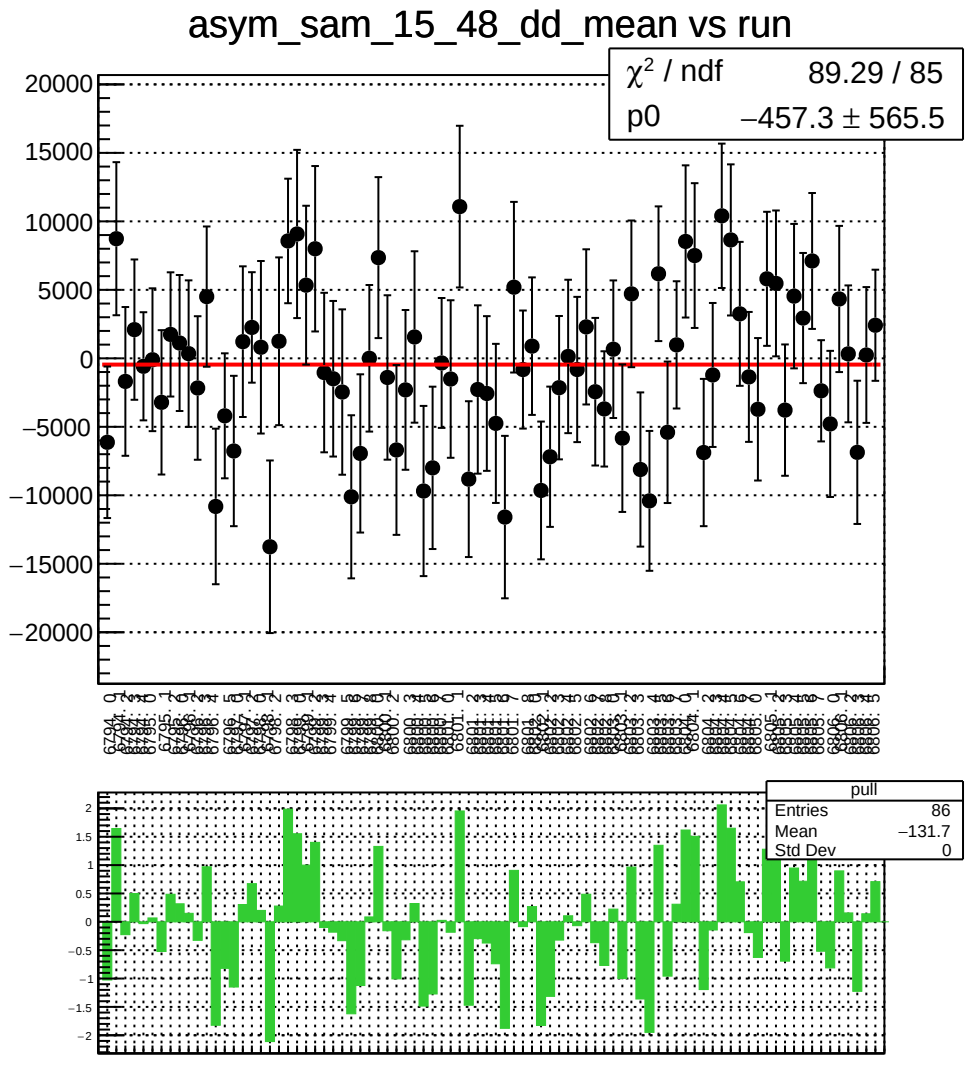

pull1D
Entries 86
Mean −0.009725
Std Dev 0.9909
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

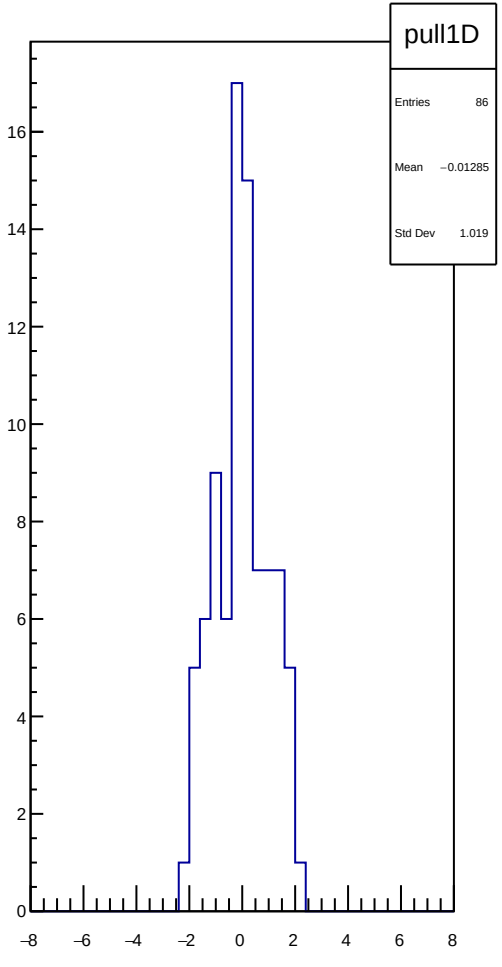

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.189e+04 / 85
p0 62.33 ± 0.04823
120
110
100
90
80
70
60
50

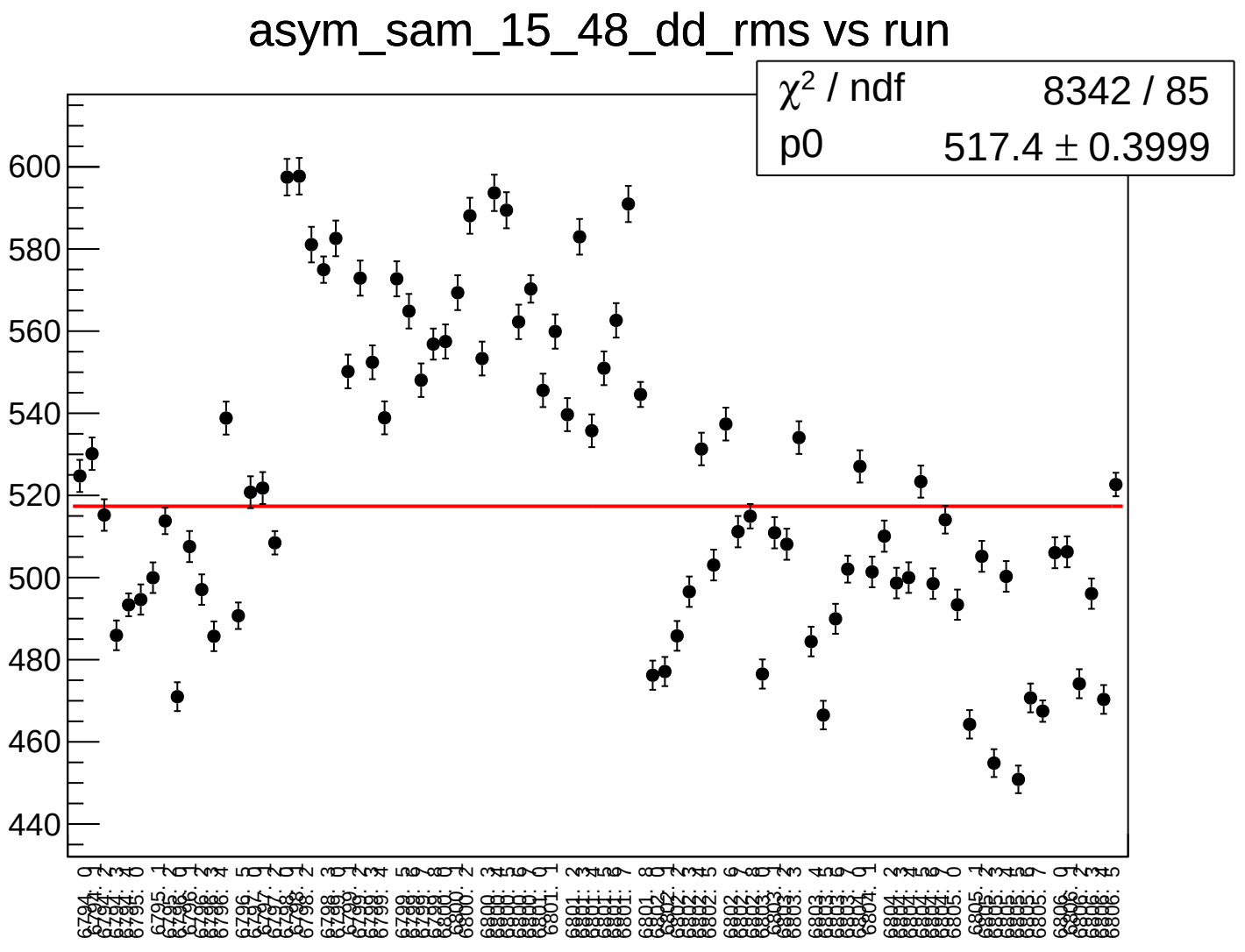

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 86.94 / 85
p0 566.4 ± 555.7
pull
Entries 86
Mean −78.42
Std Dev 0

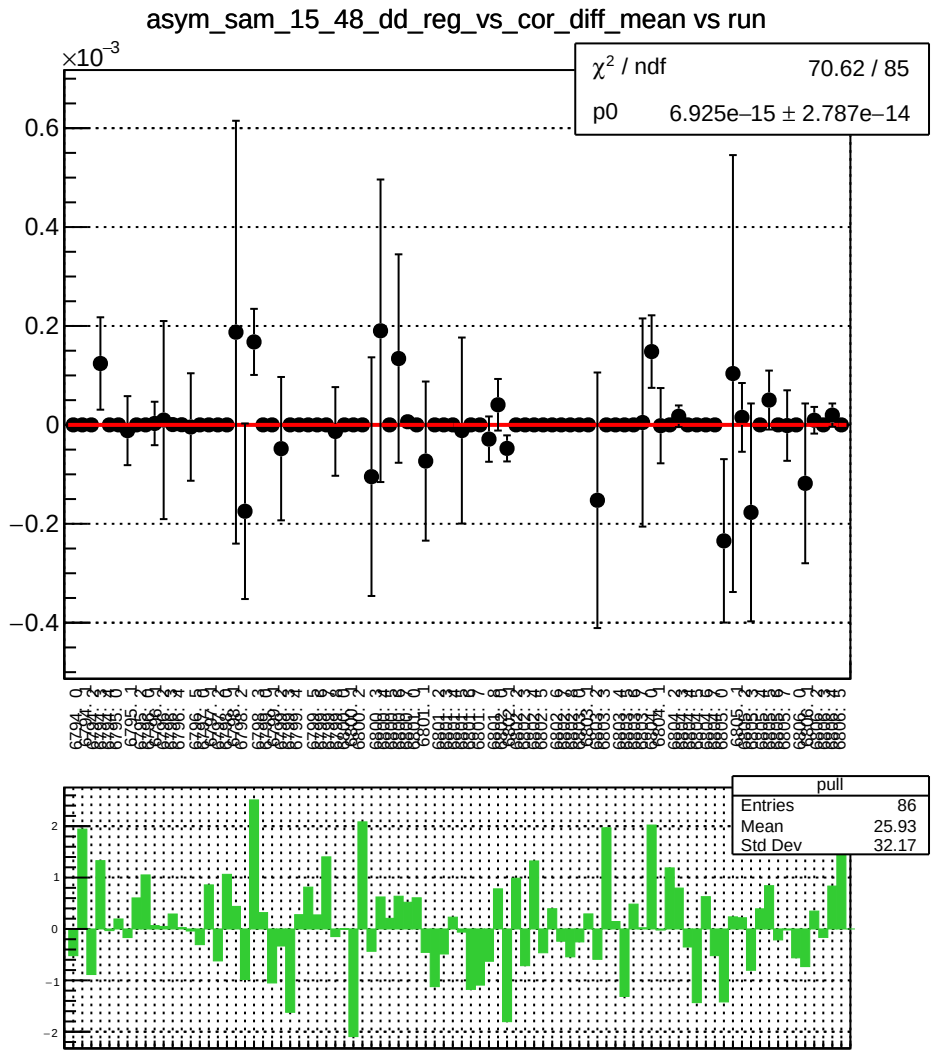

pull1D
Entries 86
Mean 0.01196
Std Dev 1.005

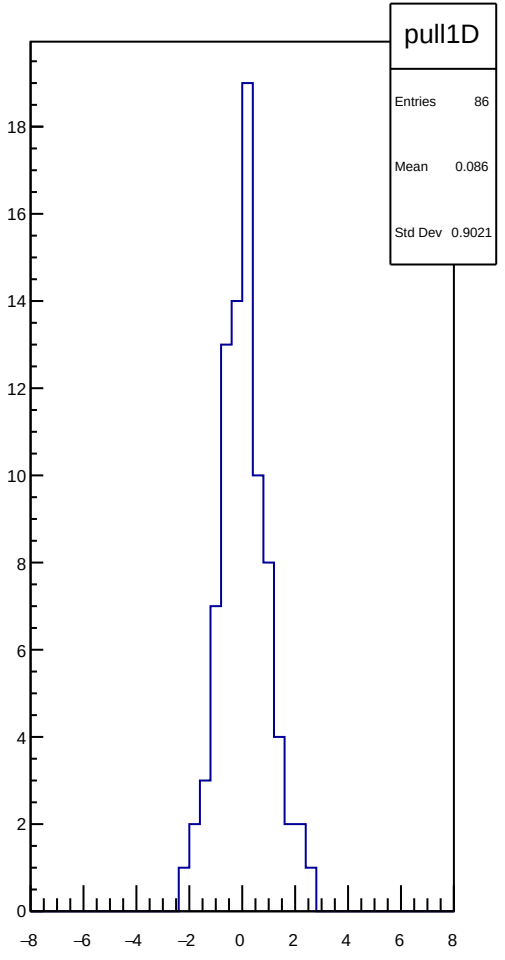

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 7144 / 85
p0 508.5 ± 0.3929
580
560
540
520
500
480
460
440

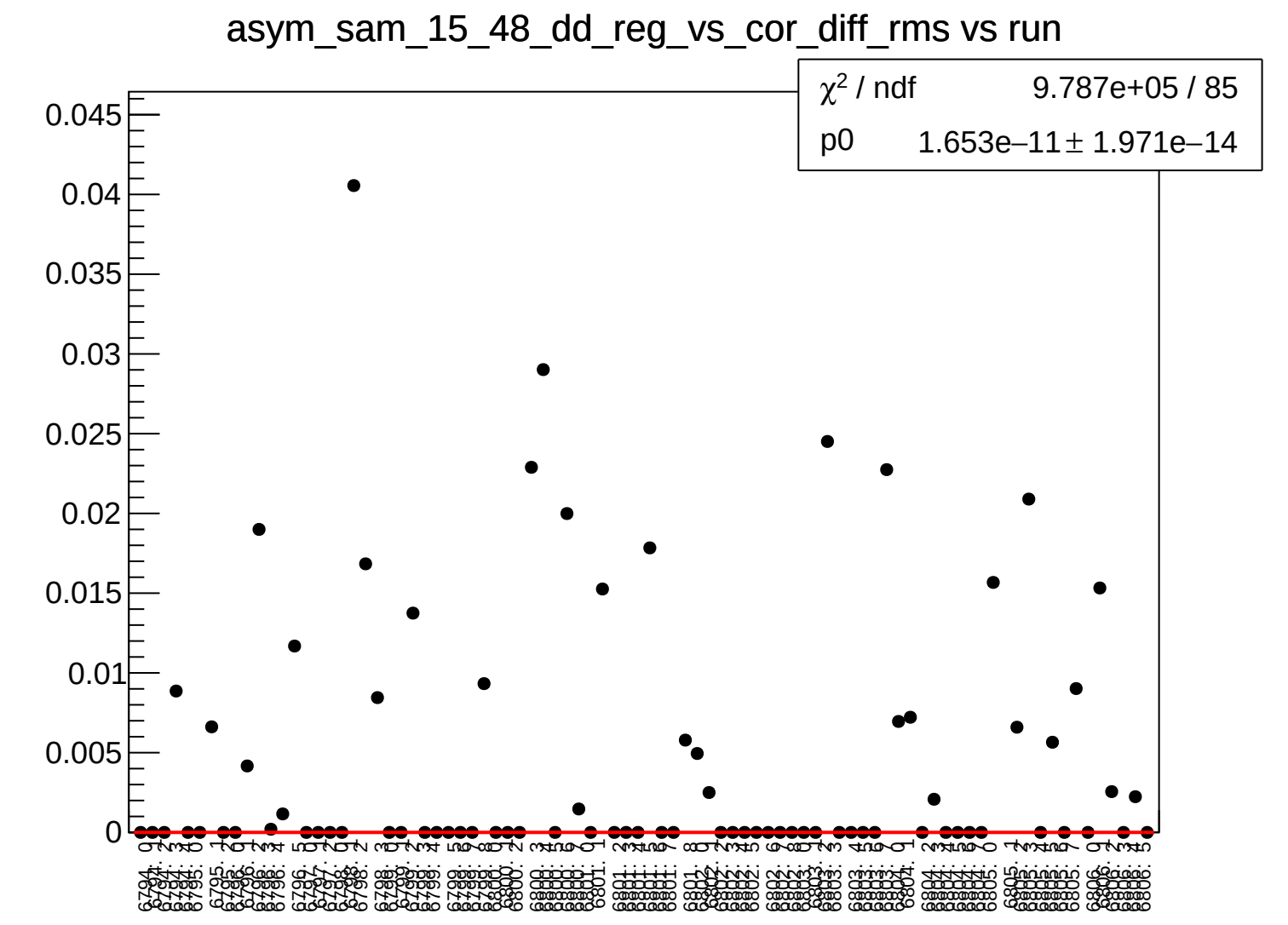

asym_sam_15_48_dd_mean vs run
χ² / ndf 89.29 / 85
p0 −457.3 ± 565.5
pull
Entries 86
Mean −131.7
Std Dev 0

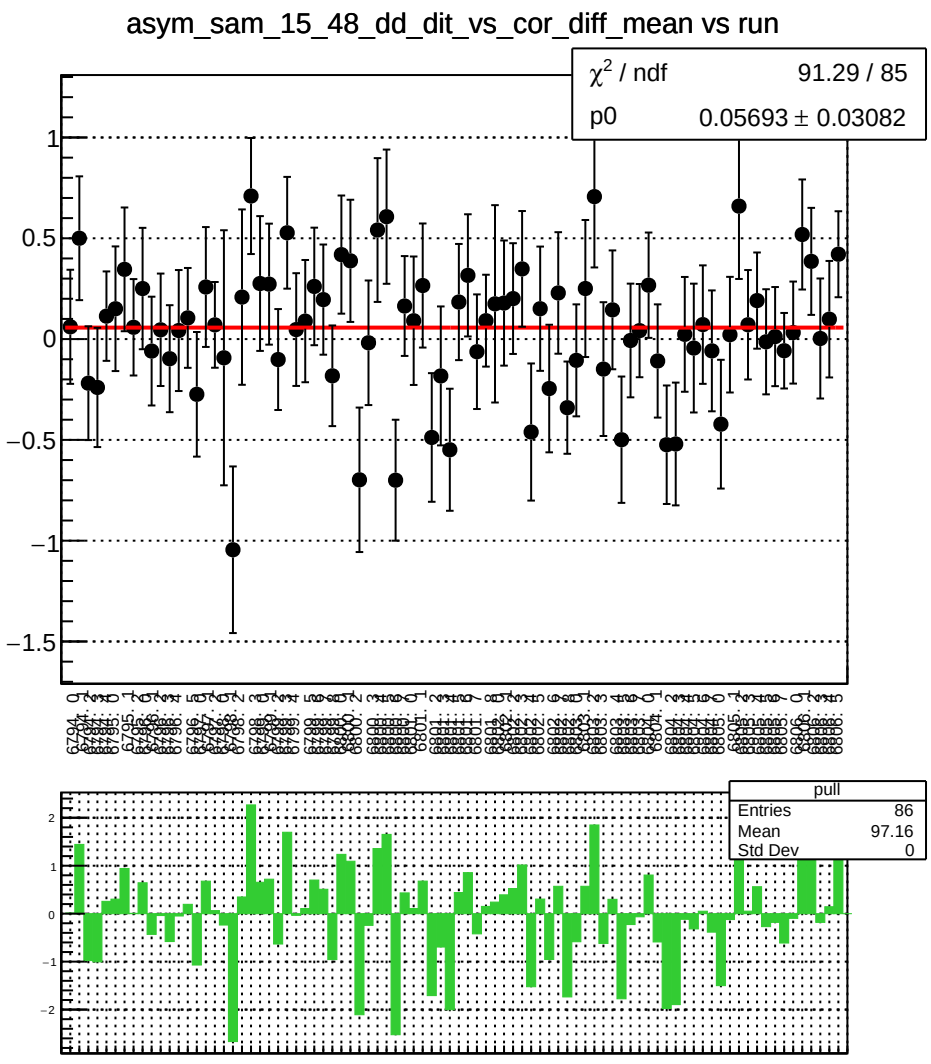

pull1D
Entries 86
Mean −0.01285
Std Dev 1.019

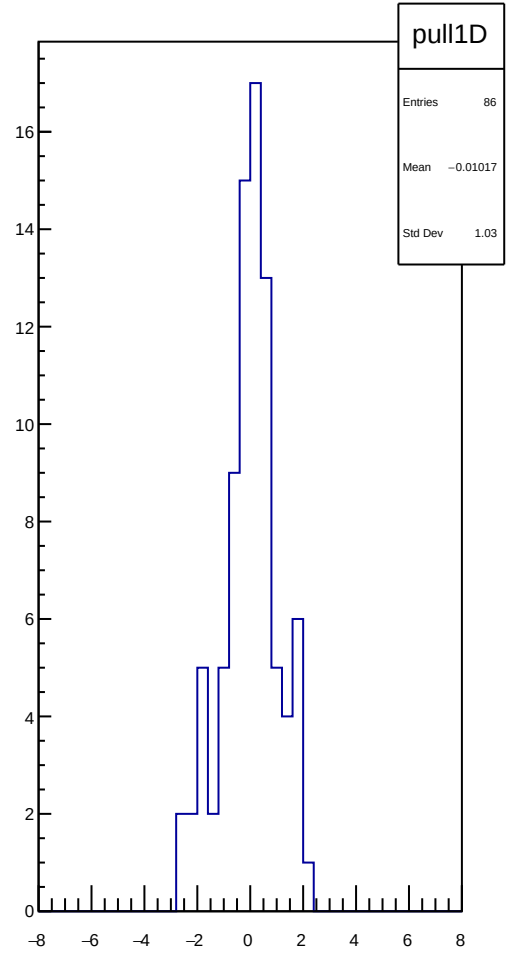

asym_sam_15_48_dd_rms vs run
χ² / ndf 8342 / 85
p0 517.4 ± 0.3999
600
580
560
540
520
500
480
460
440

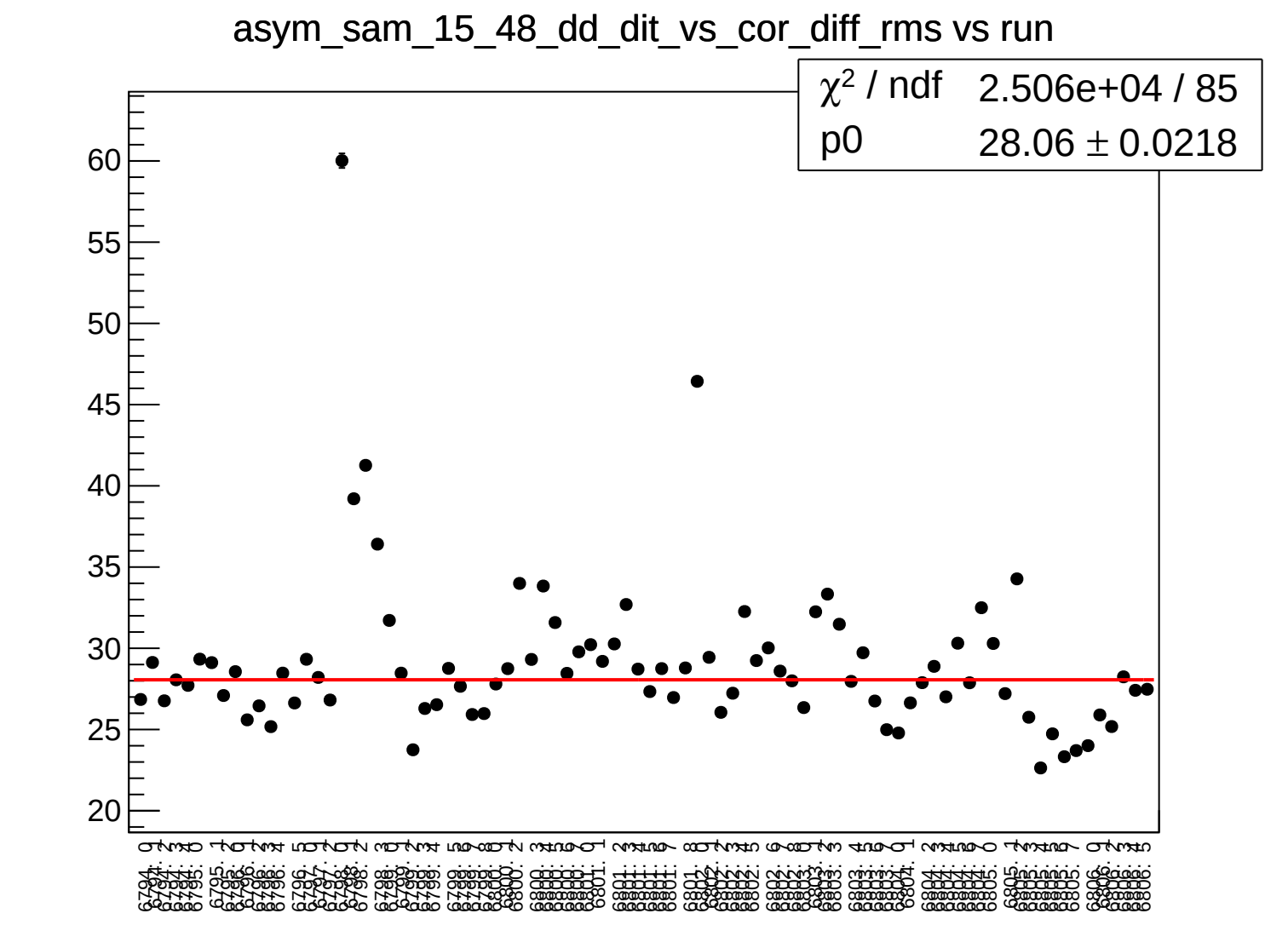

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 70.62 / 85
p0 6.925e−15 ± 2.787e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean 25.93
Std Dev 32.17
2
1
0
−1
−2

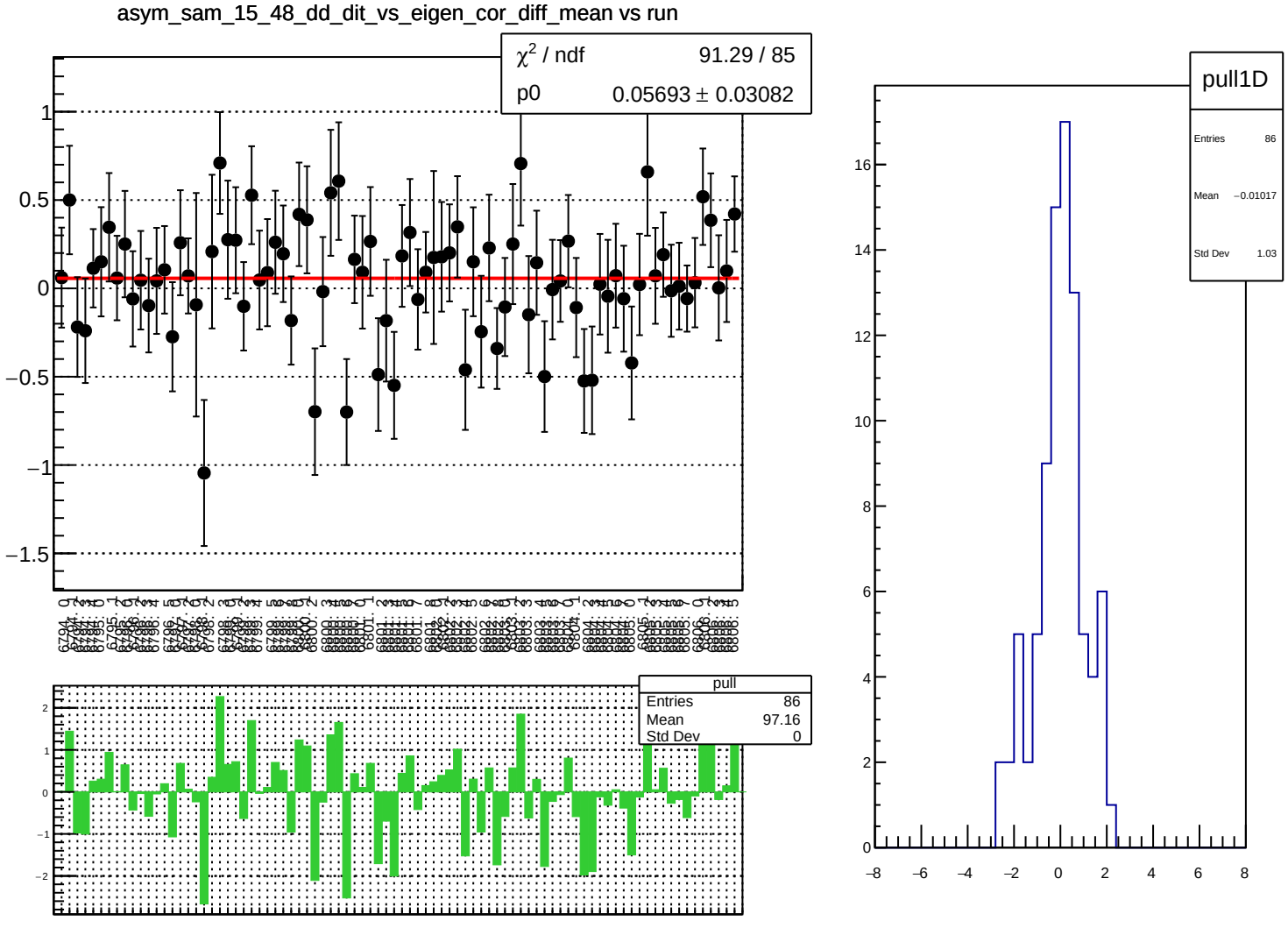

pull1D
Entries 86
Mean 0.086
Std Dev 0.9021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

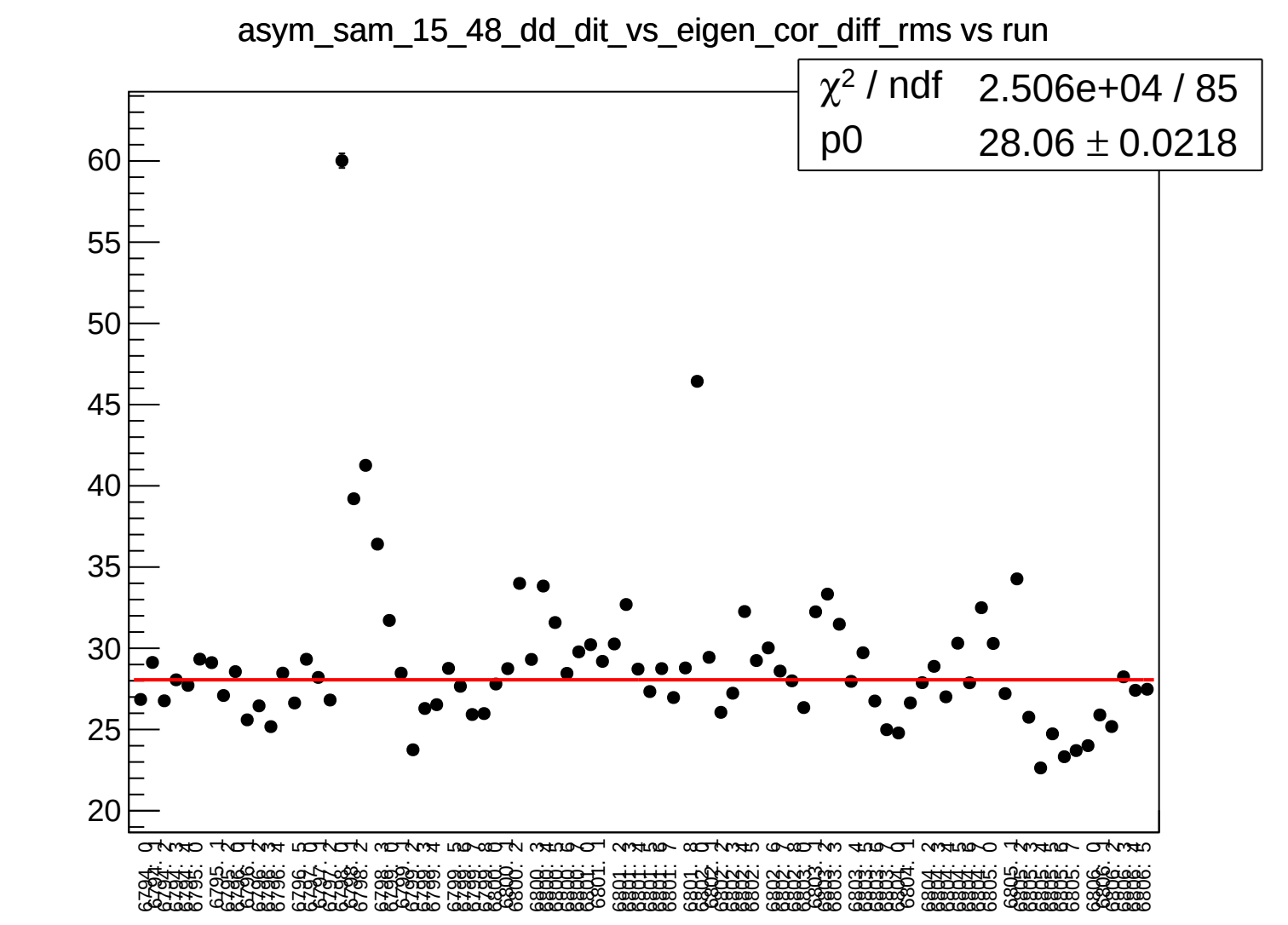

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.787e+05 / 85
p0 1.653e−11 ± 1.971e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

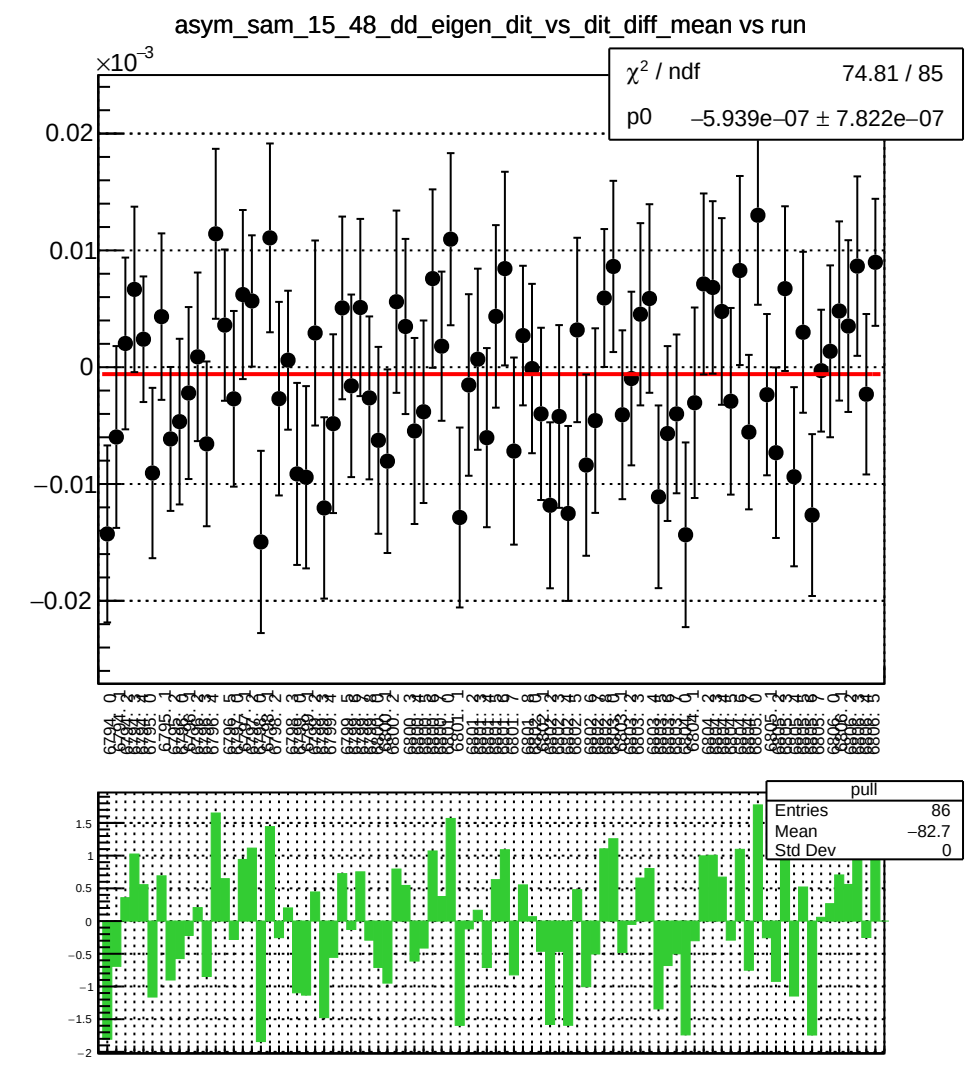

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 85
p0 0.05693 ± 0.03082
pull
Entries 86
Mean 97.16
Std Dev 0

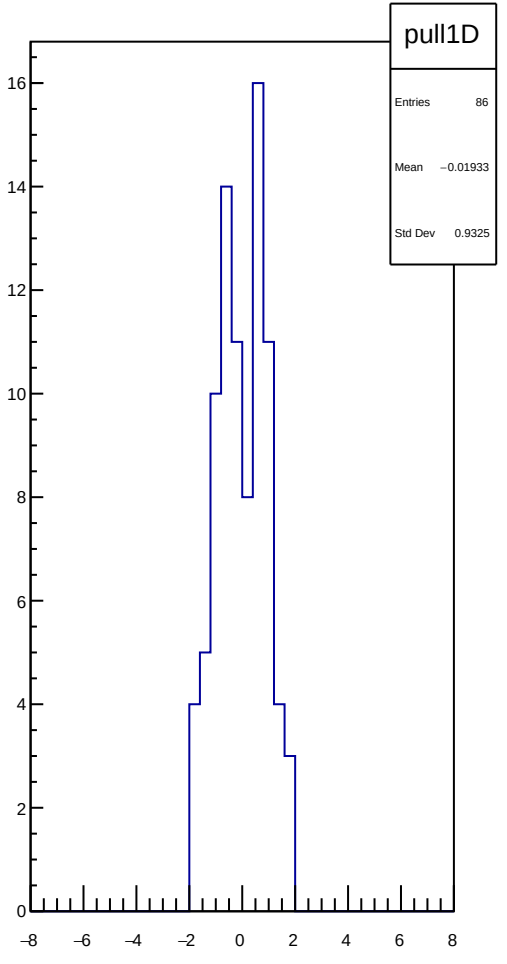

pull1D
Entries 86
Mean −0.01017
Std Dev 1.03

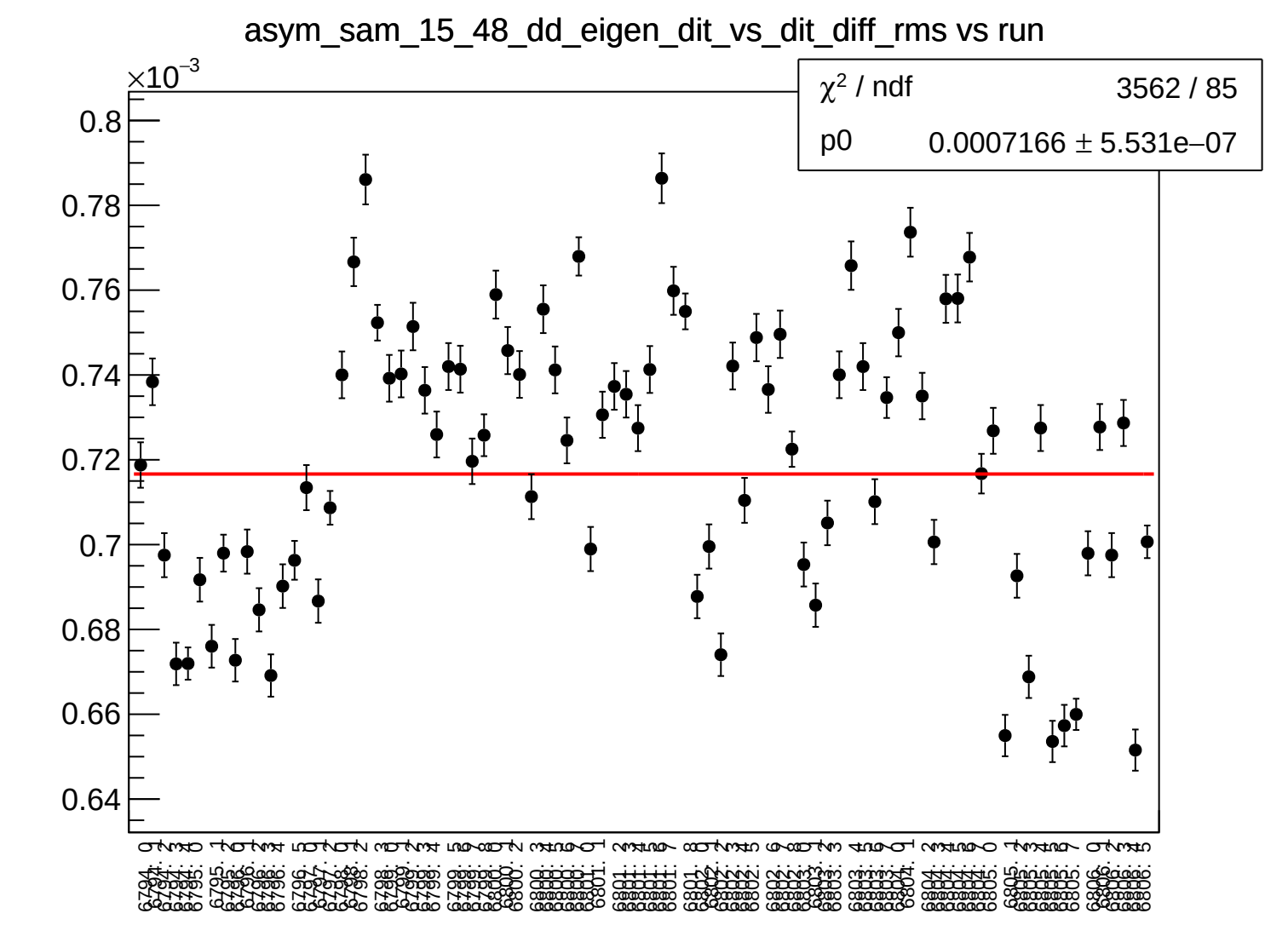

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 85
p0 28.06 ± 0.0218
60
55
50
45
40
35
30
25
20

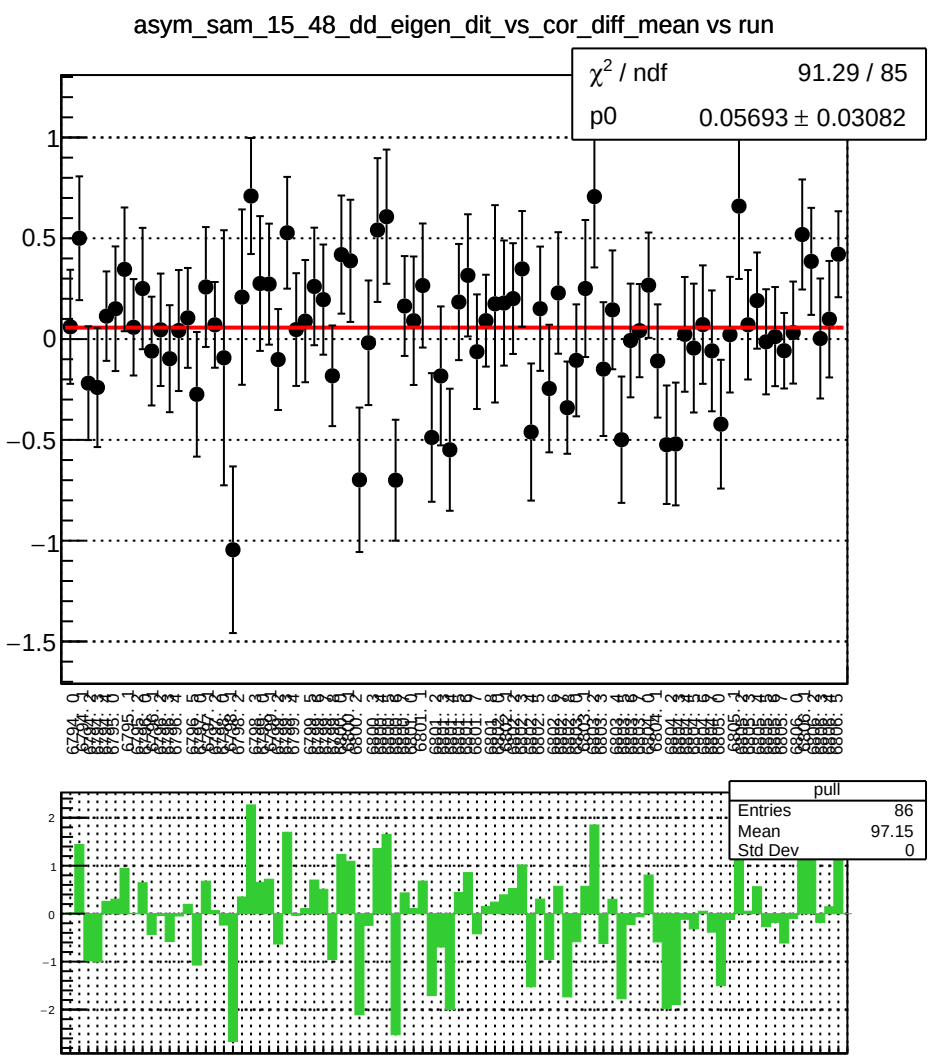

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 85
p0 0.05693 ± 0.03082
pull
Entries 86
Mean 97.16
Std Dev 0
pull1D
Entries 86
Mean −0.01017
Std Dev 1.03

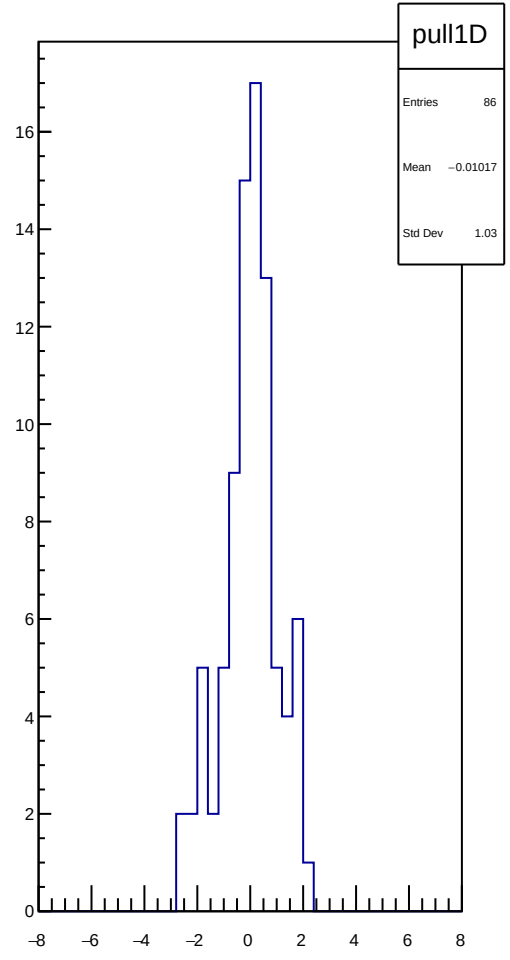

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 85
p0 28.06 ± 0.0218
60
55
50
45
40
35
30
25
20

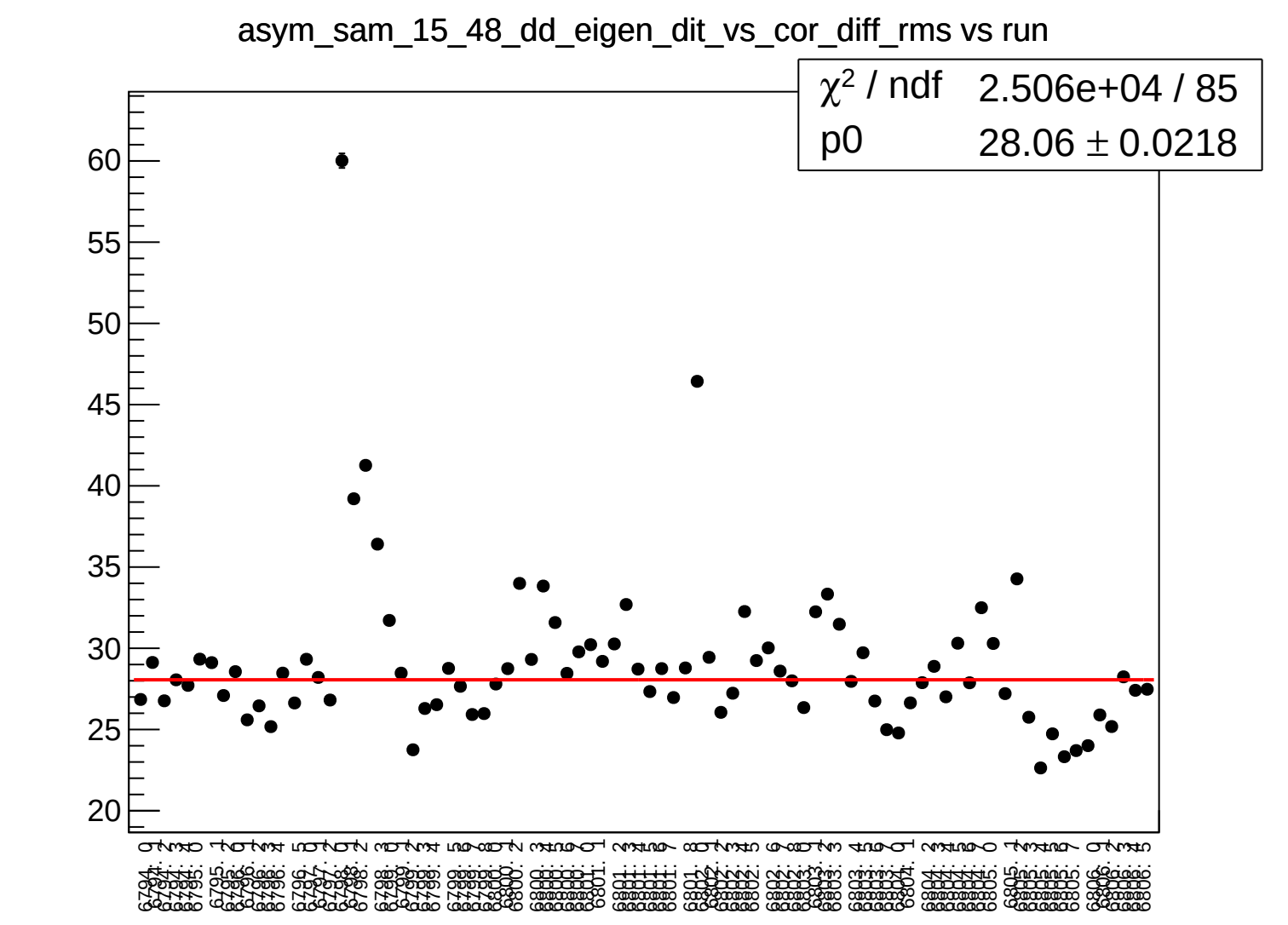

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10−3
χ2 / ndf 74.81 / 85
p0 −5.939e−07 ± 7.822e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 86
Mean −82.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

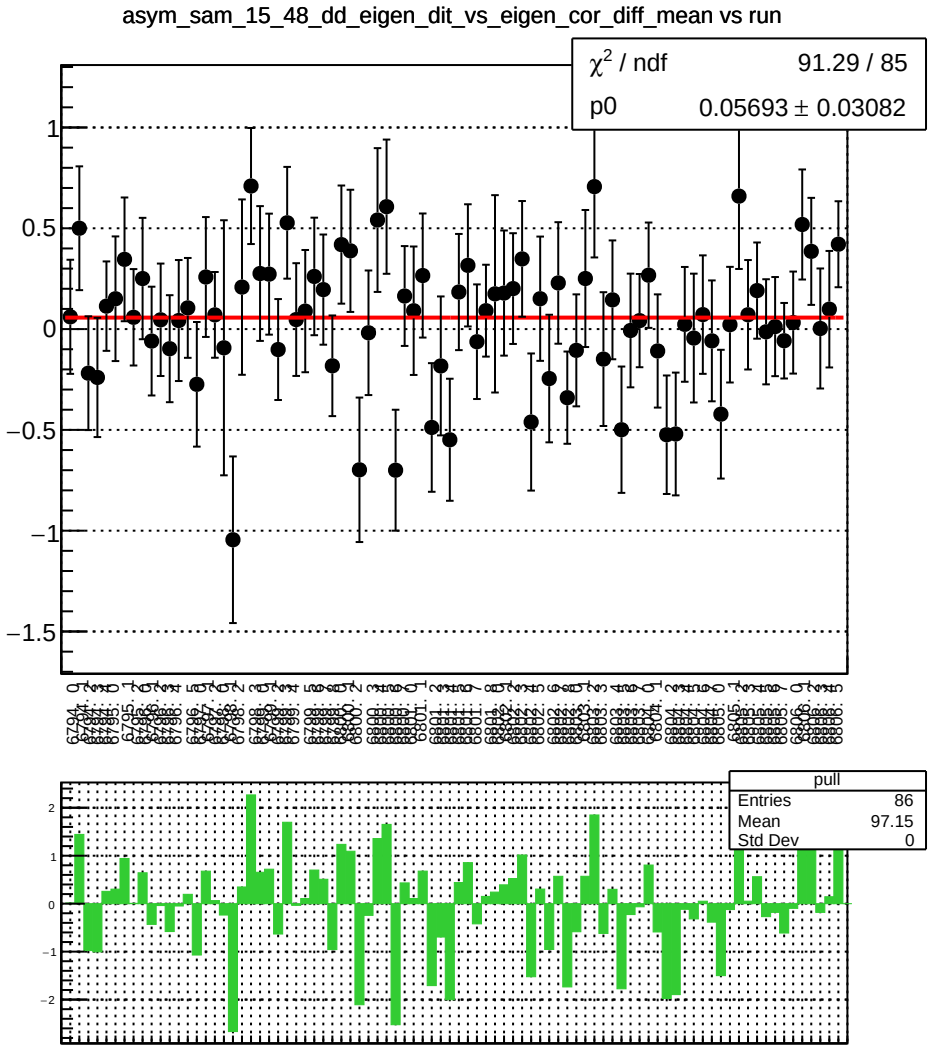

pull1D
Entries 86
Mean −0.01933
Std Dev 0.9325
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

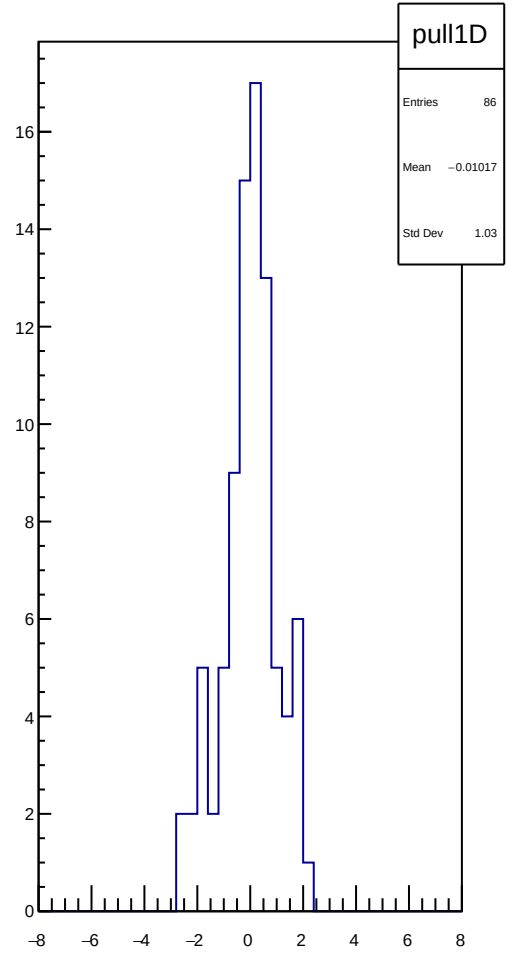

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 3562 / 85
p0 0.0007166 ± 5.531e−07
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64

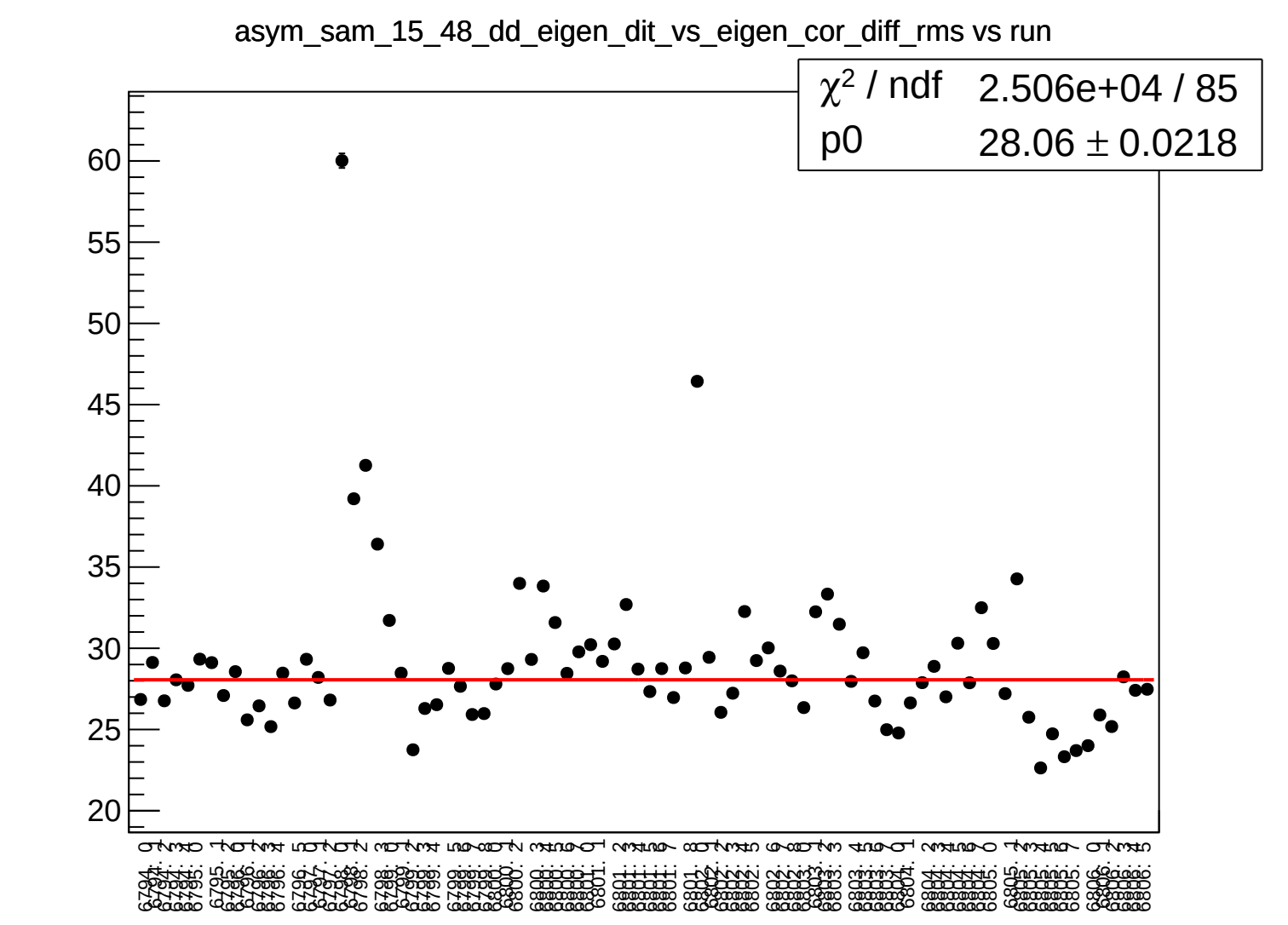

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 85
p0 0.05693 ± 0.03082
pull
Entries 86
Mean 97.15
Std Dev 0

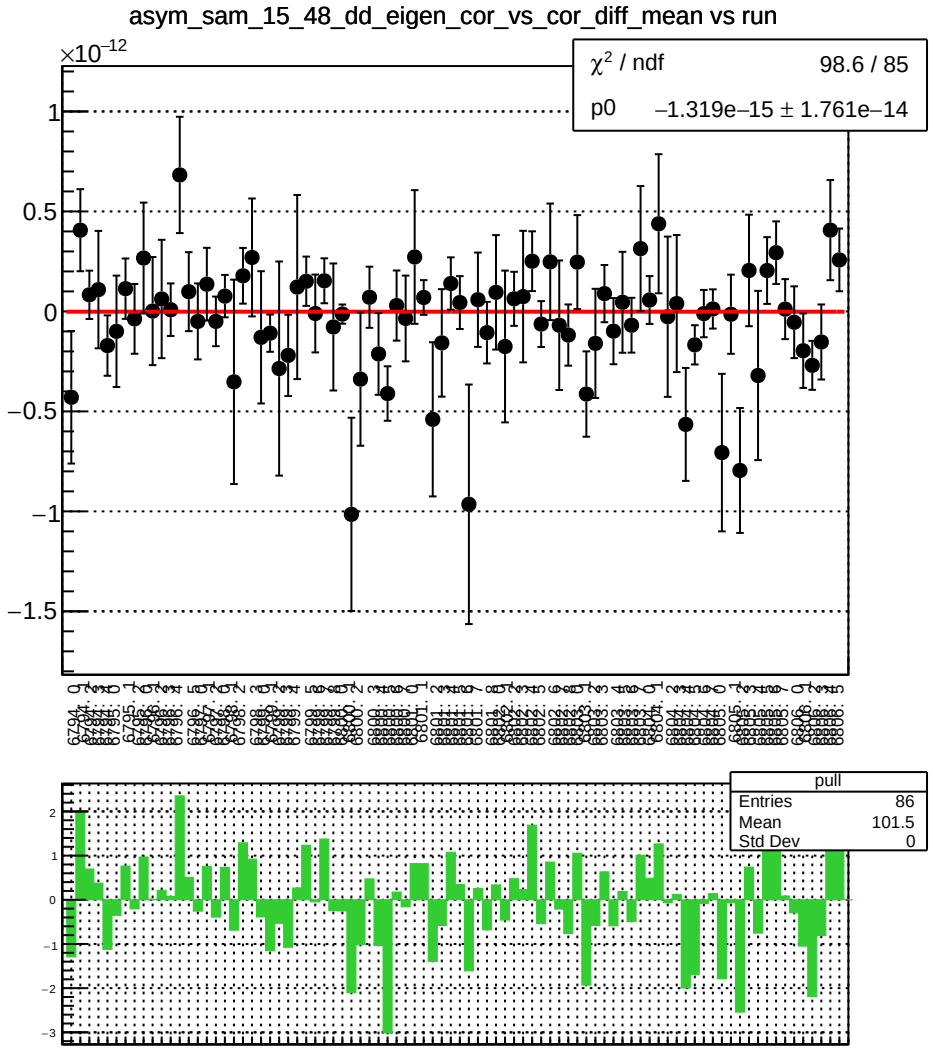

pull1D
Entries 86
Mean −0.01017
Std Dev 1.03

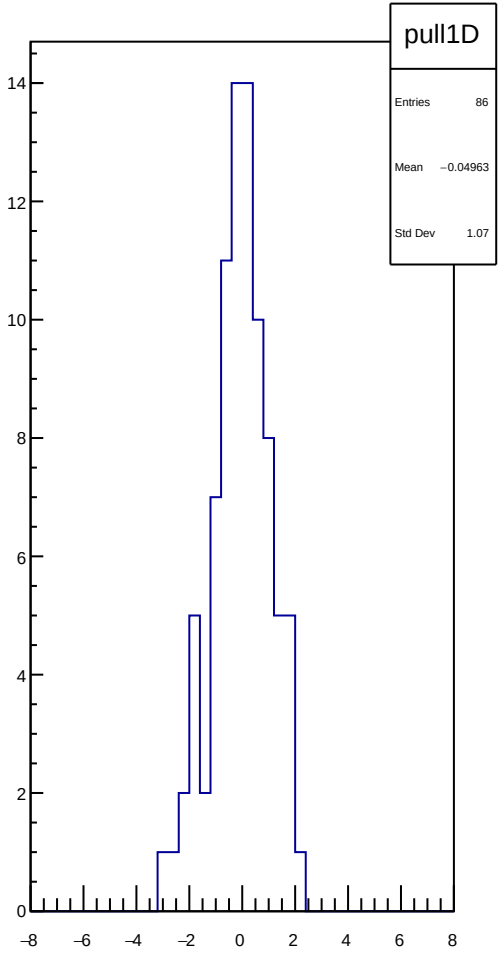

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 85
p0 28.06 ± 0.0218
60
55
50
45
40
35
30
25
20

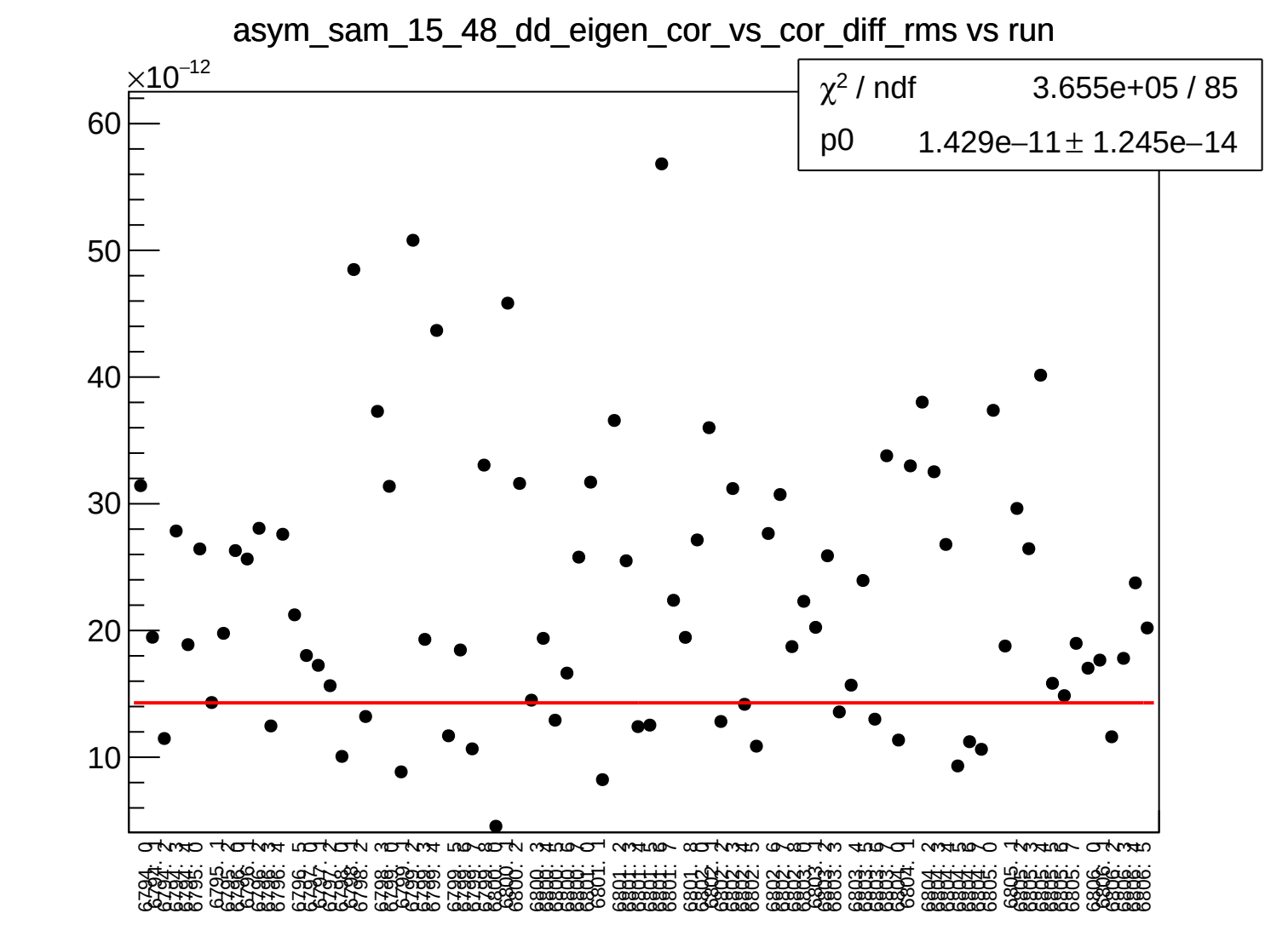

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 85
p0 0.05693 ± 0.03082
pull
Entries 86
Mean 97.15
Std Dev 0

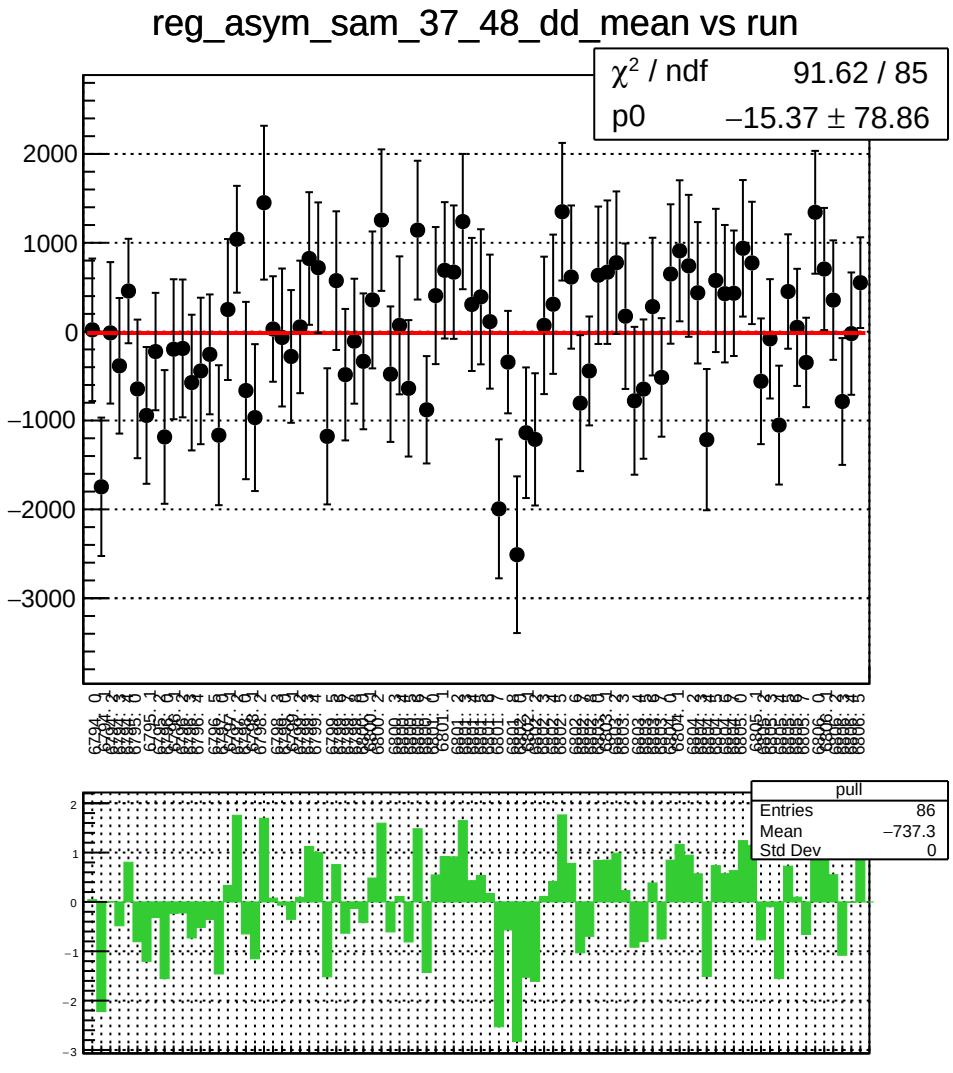

pull1D
Entries 86
Mean −0.01017
Std Dev 1.03

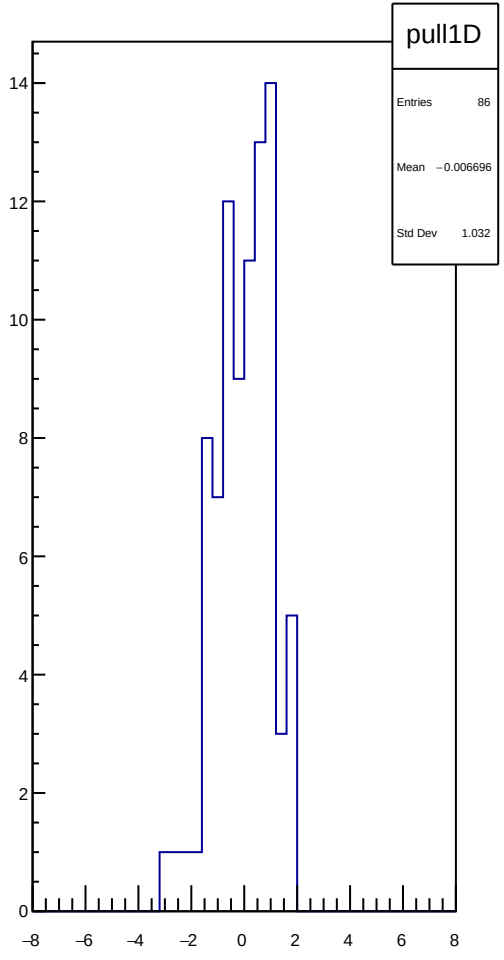

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.506e+04 / 85
p0 28.06 ± 0.0218
60
55
50
45
40
35
30
25
20

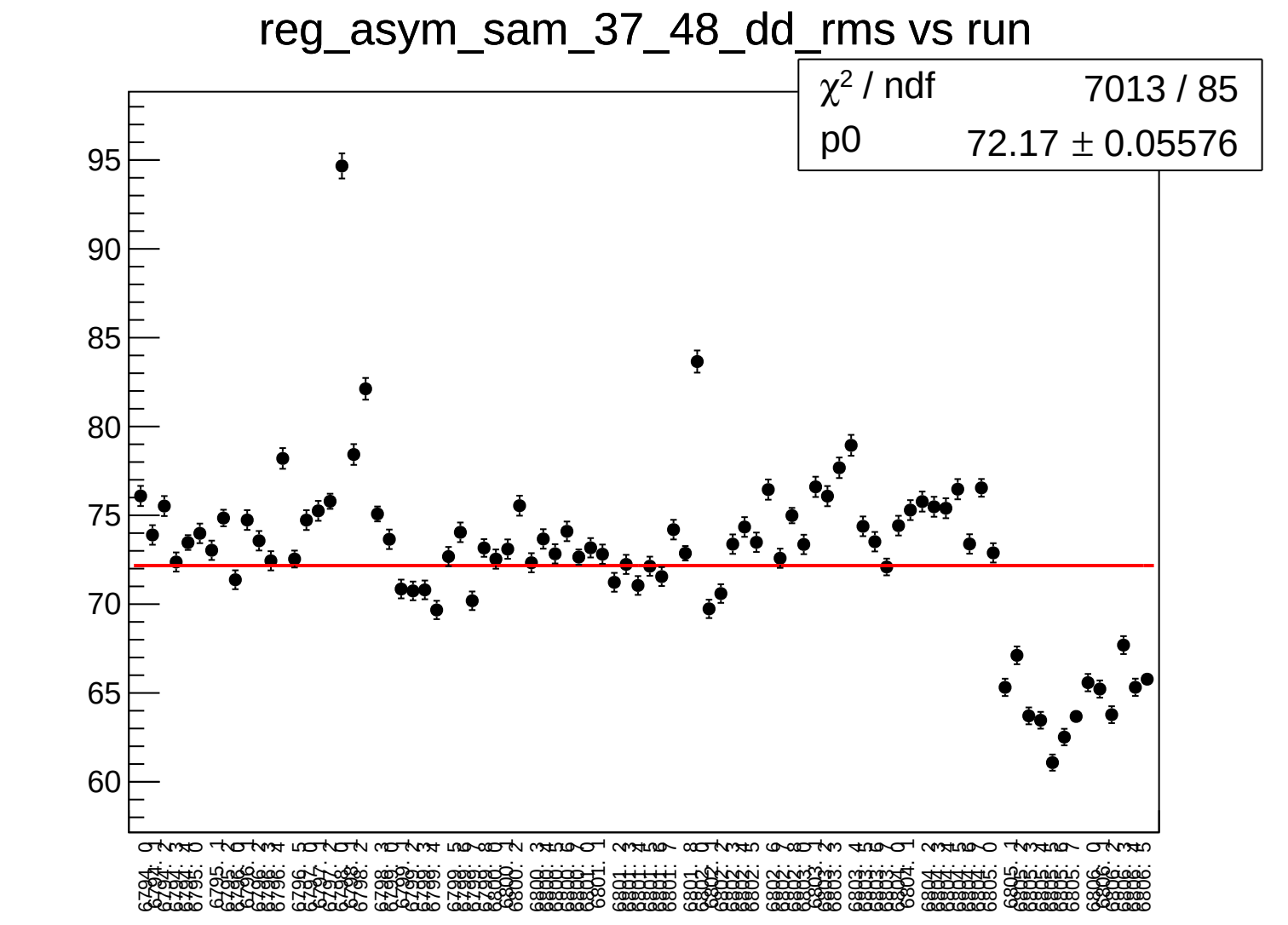

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 98.6 / 85
p0 −1.319e−15 ± 1.761e−14
pull
Entries 86
Mean 101.5
Std Dev 0

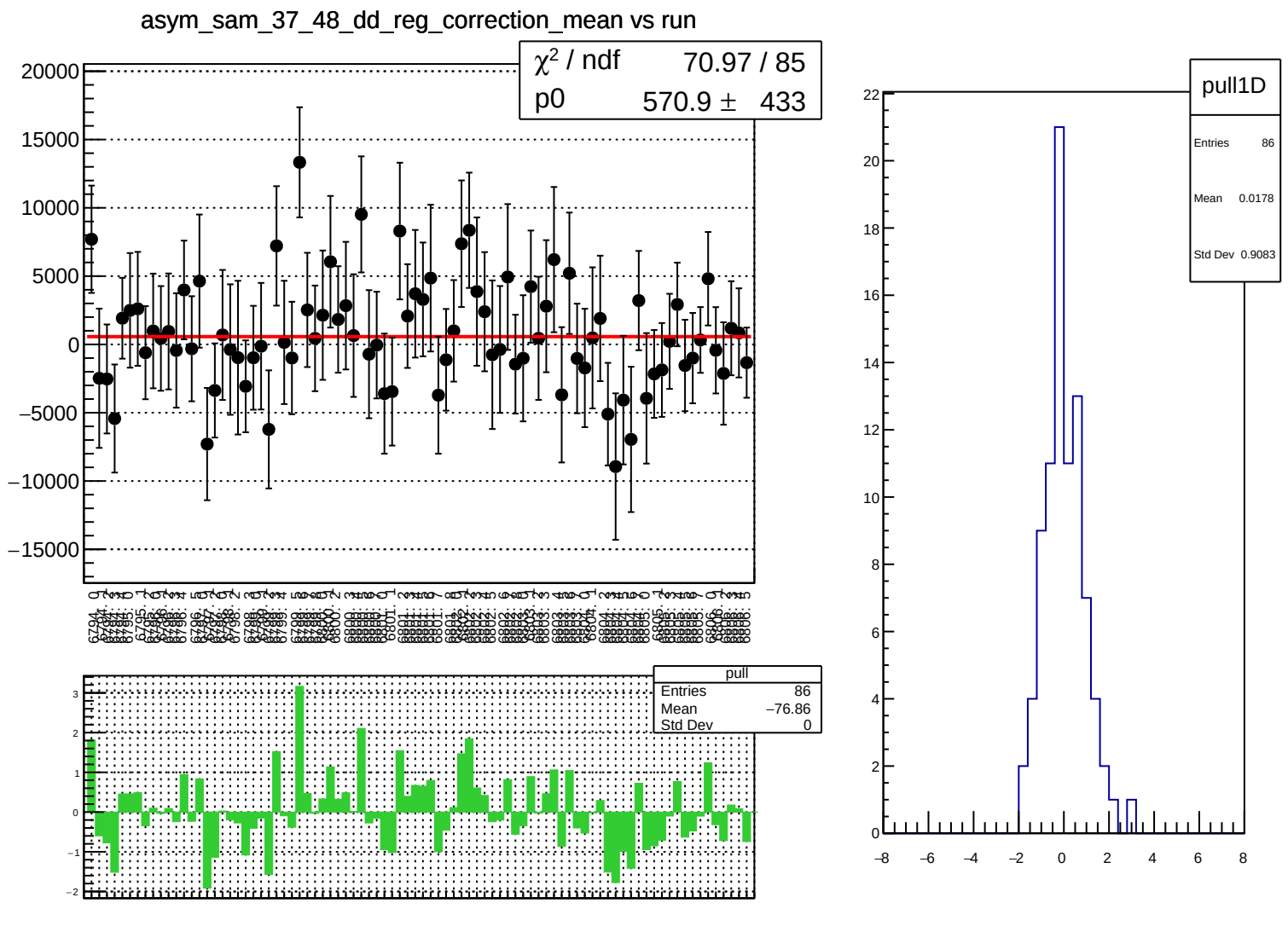

pull1D
Entries 86
Mean −0.04963
Std Dev 1.07

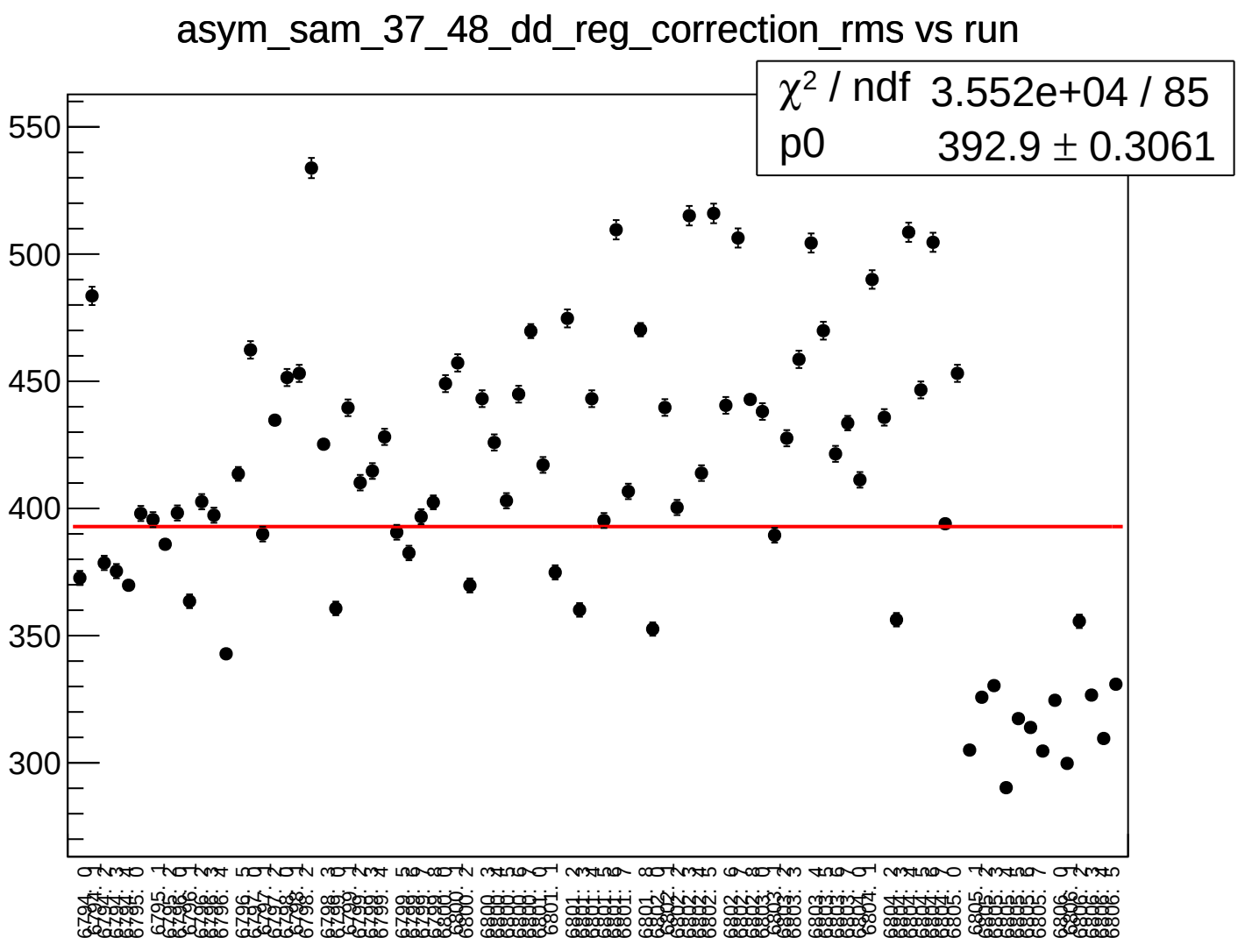

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
60
50
40
30
20
10
χ² / ndf 3.655e+05 / 85
p0 1.429e−11 ± 1.245e−14

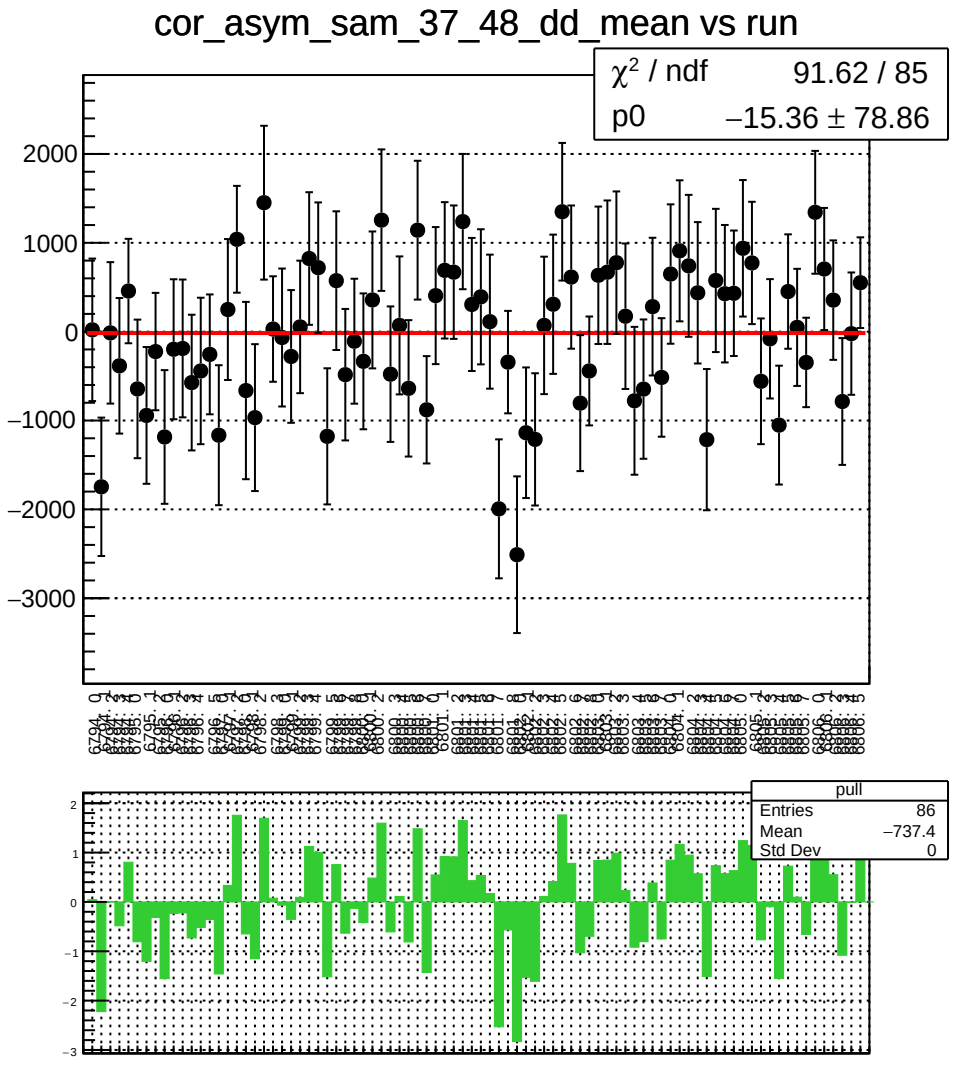

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.62 / 85
p0 −15.37 ± 78.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −737.3
Std Dev 0
2
1
0
−1
−2
−3

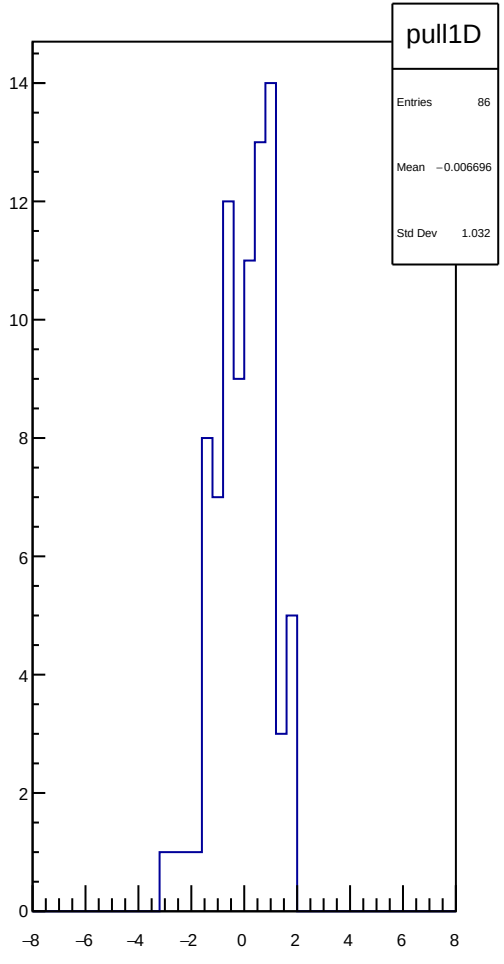

pull1D
Entries 86
Mean −0.006696
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

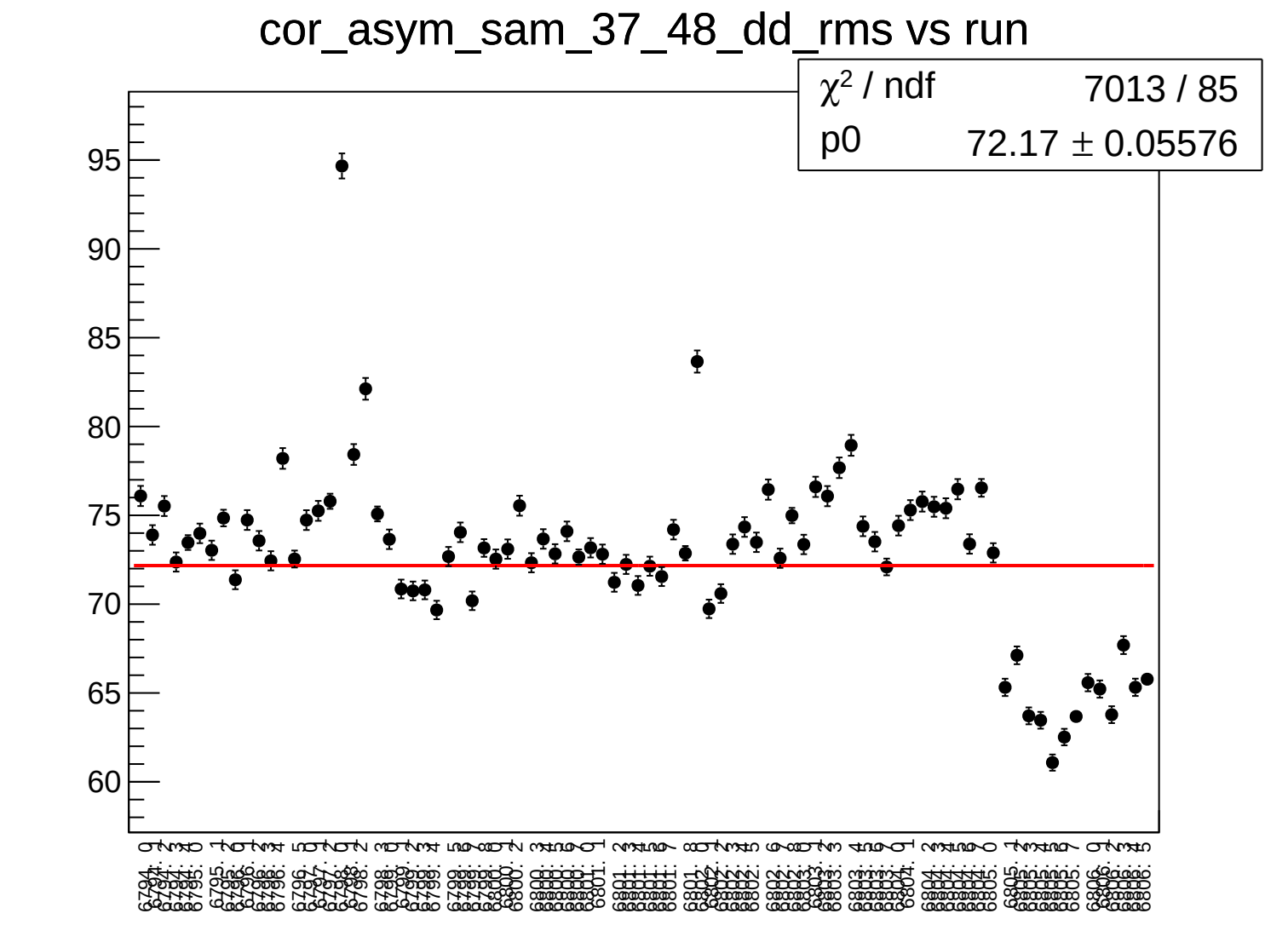

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 7013 / 85
p0 72.17 ± 0.05576
95
90
85
80
75
70
65
60

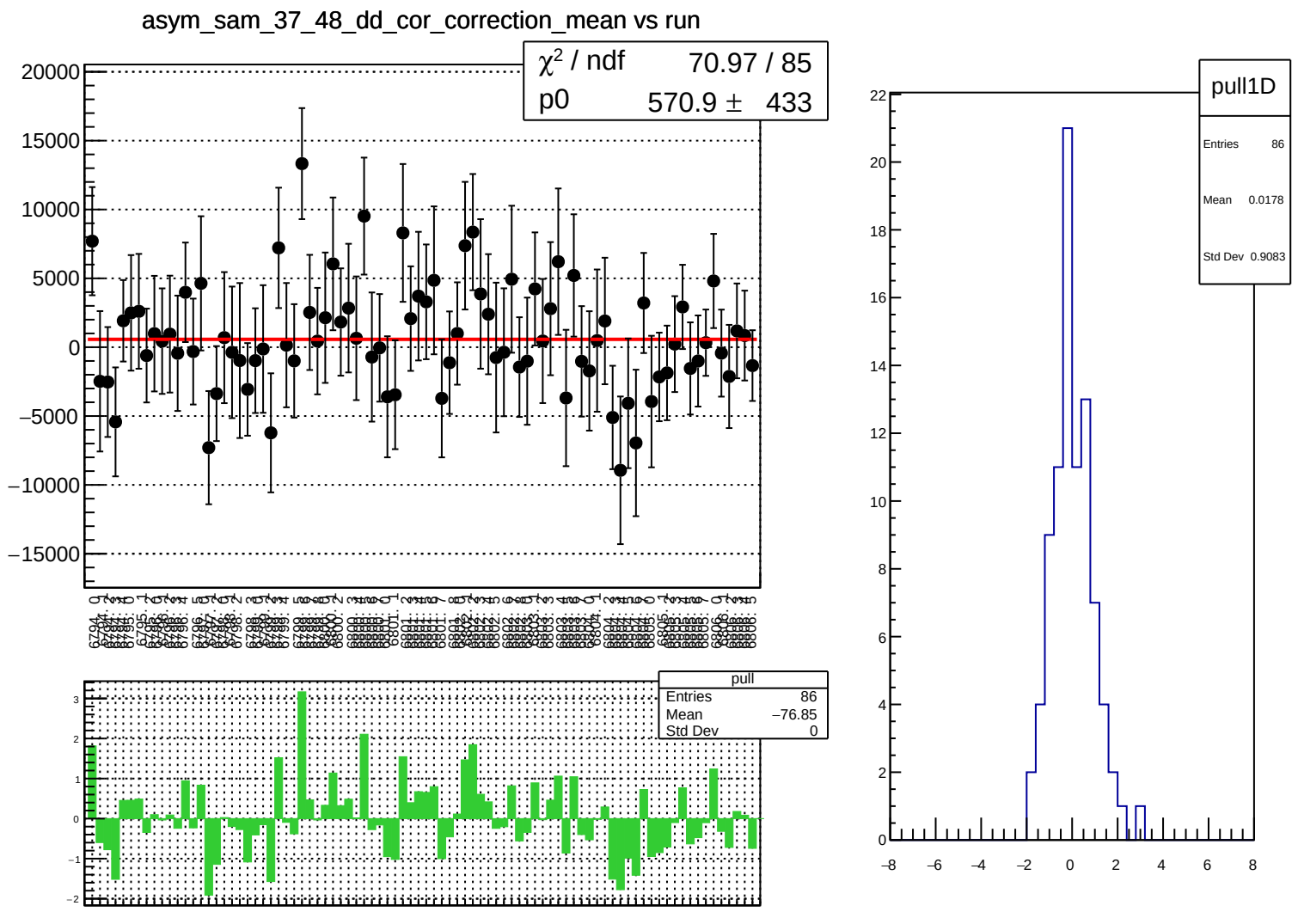

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 70.97 / 85
p0 570.9 ± 433
pull
Entries 86
Mean −76.86
Std Dev 0
pull1D
Entries 86
Mean 0.0178
Std Dev 0.9083

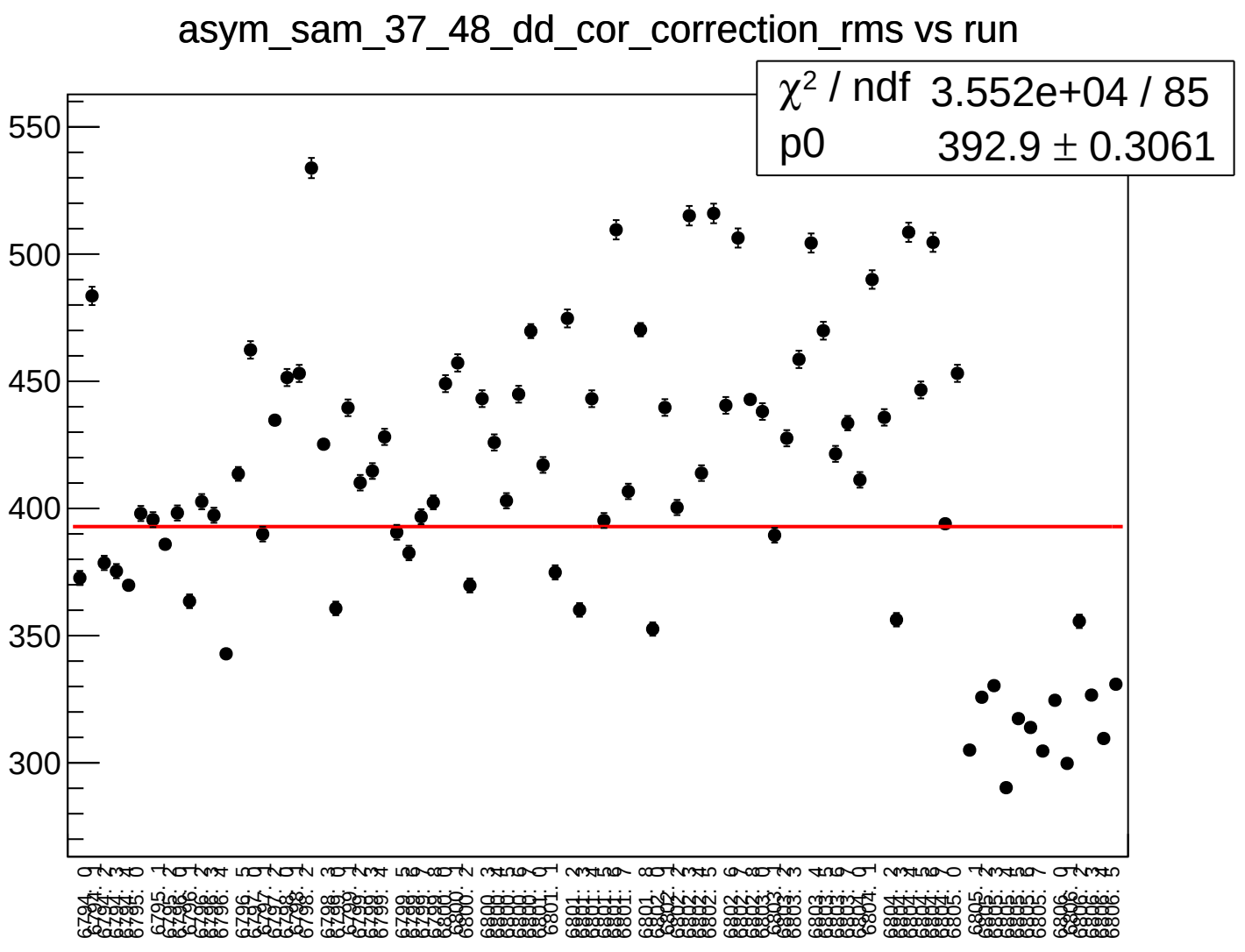

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 3.552e+04 / 85
p0 392.9 ± 0.3061
550
500
450
400
350
300

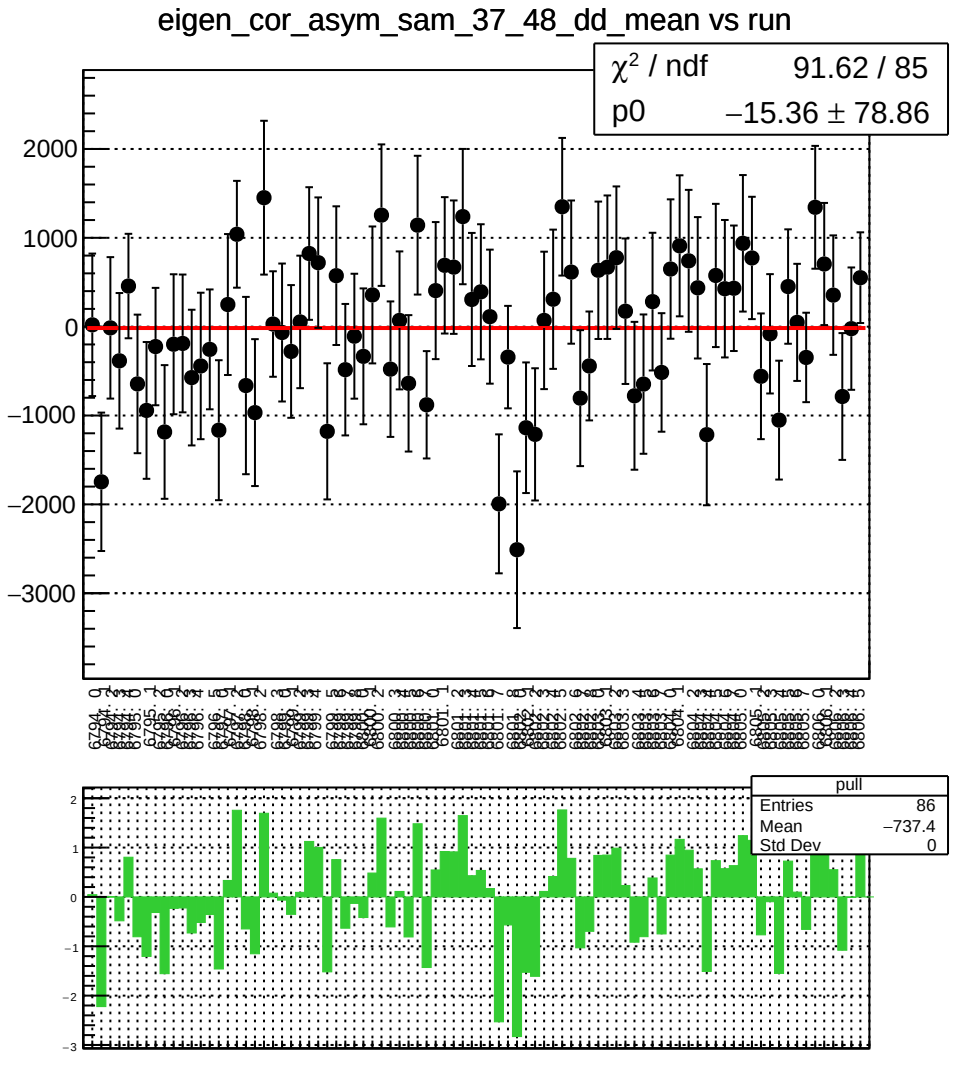

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.62 / 85
p0 −15.36 ± 78.86
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −737.4
Std Dev 0
2
1
0
−1
−2
−3

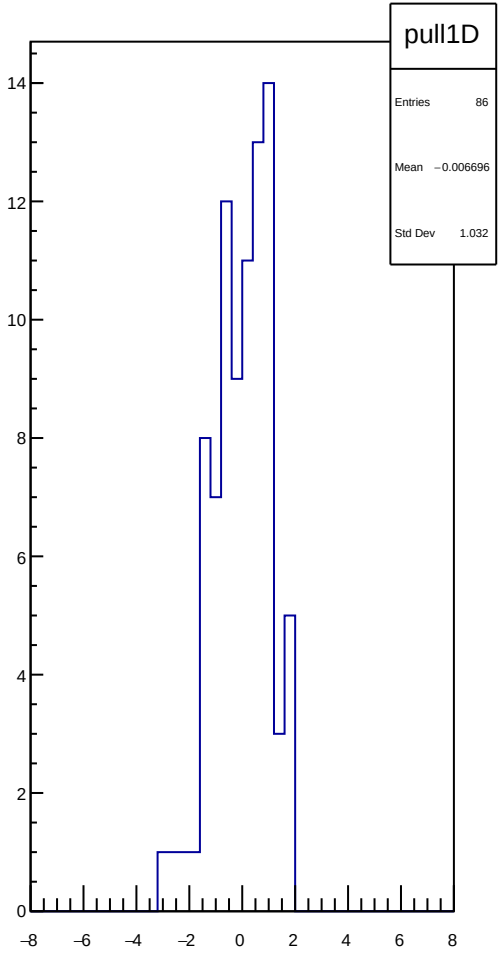

pull1D
Entries 86
Mean −0.006696
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

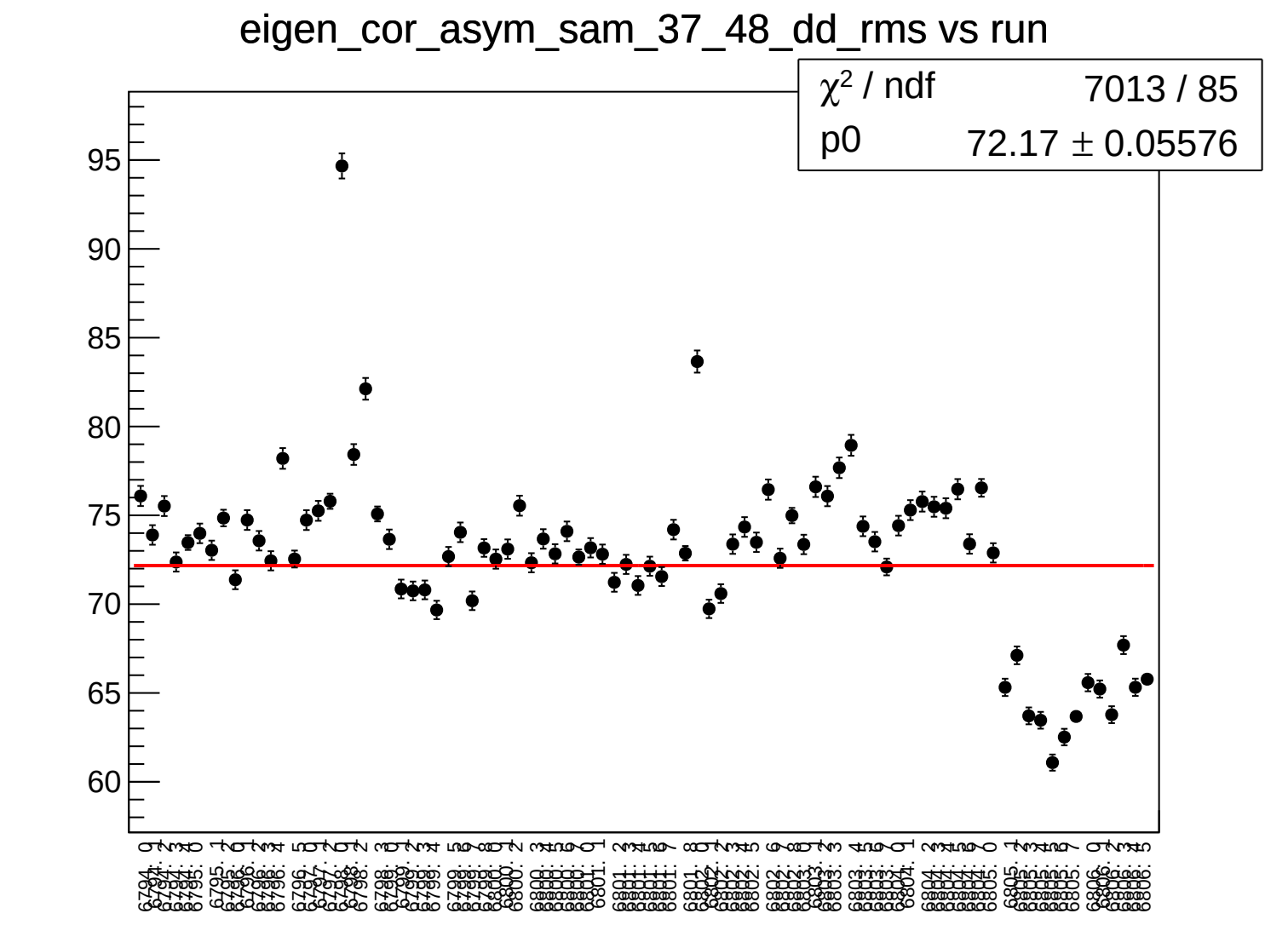

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 7013 / 85
p0 72.17 ± 0.05576
95
90
85
80
75
70
65
60

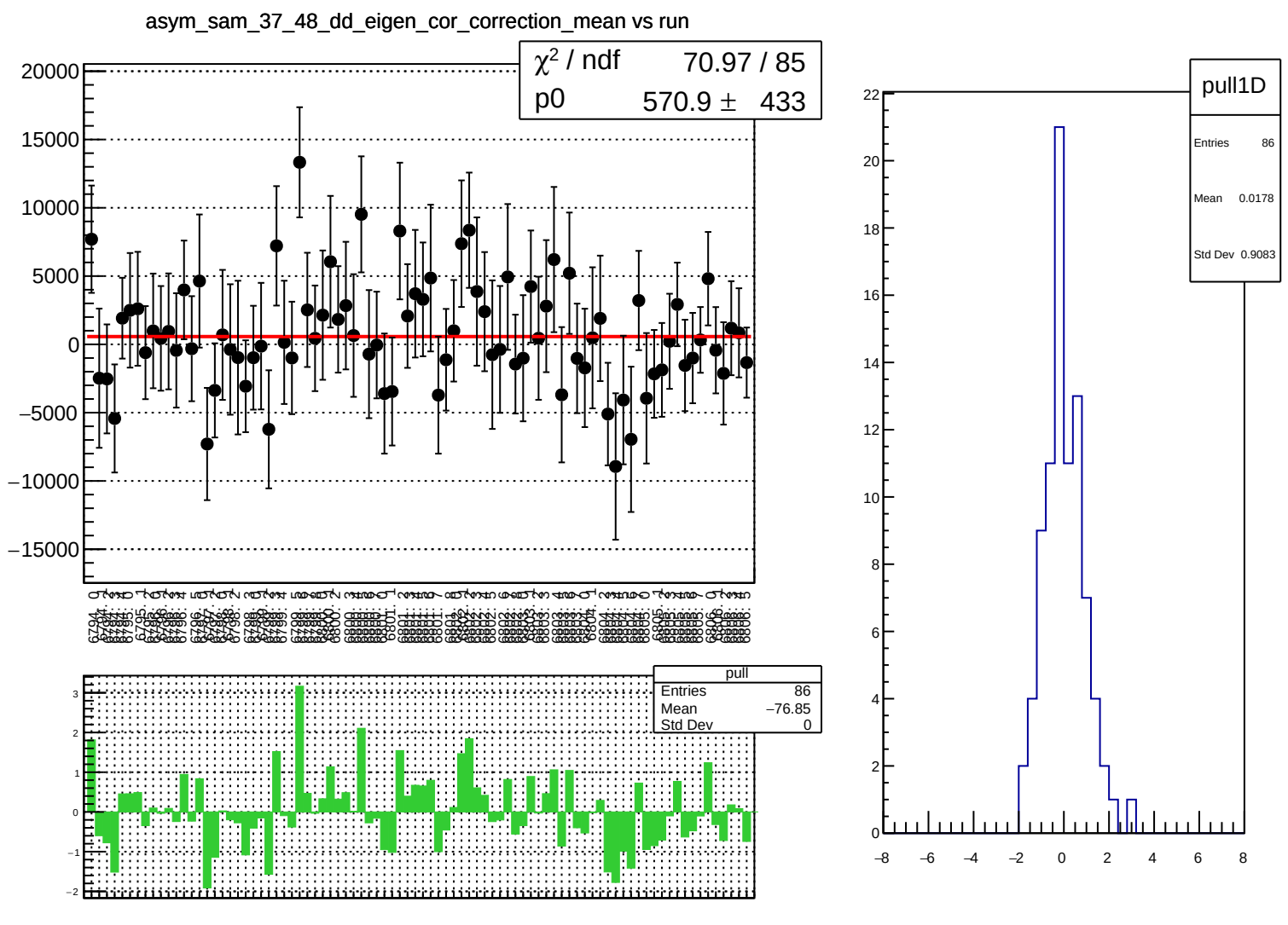

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 70.97 / 85
p0 570.9 ± 433
pull
Entries 86
Mean −76.85
Std Dev 0
pull1D
Entries 86
Mean 0.0178
Std Dev 0.9083

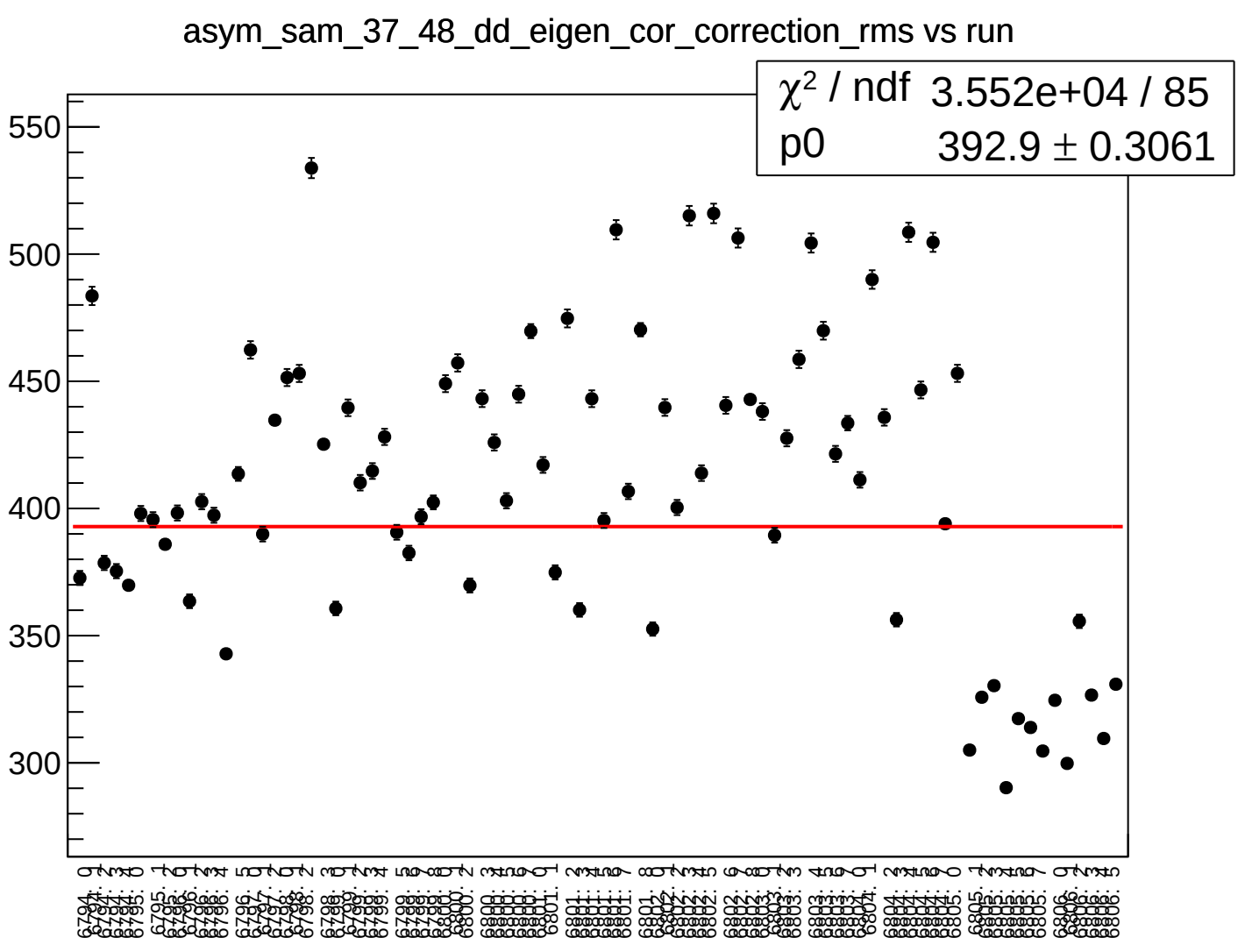

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 3.552e+04 / 85
p0 392.9 ± 0.3061
550
500
450
400
350
300

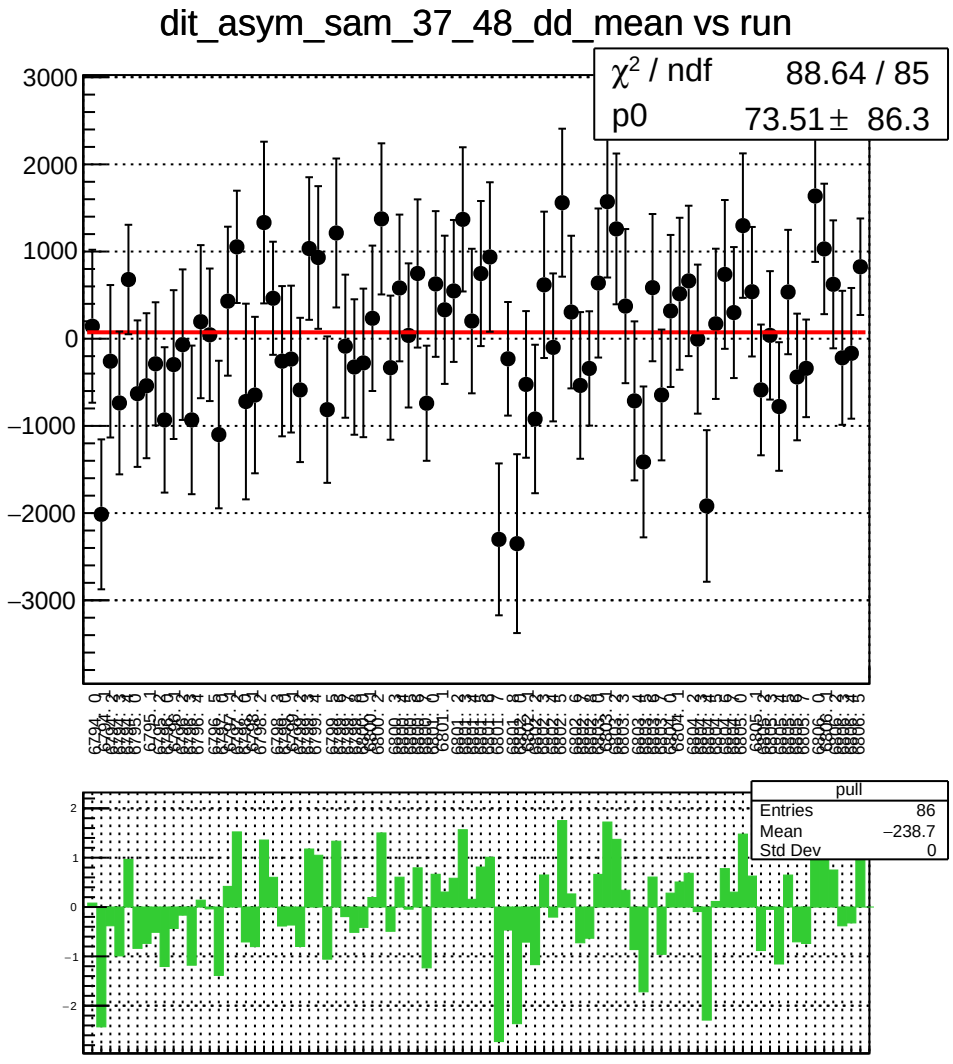

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 91.62 / 85
p0 −15.36 ± 78.86
pull
Entries 86
Mean −737.4
Std Dev 0

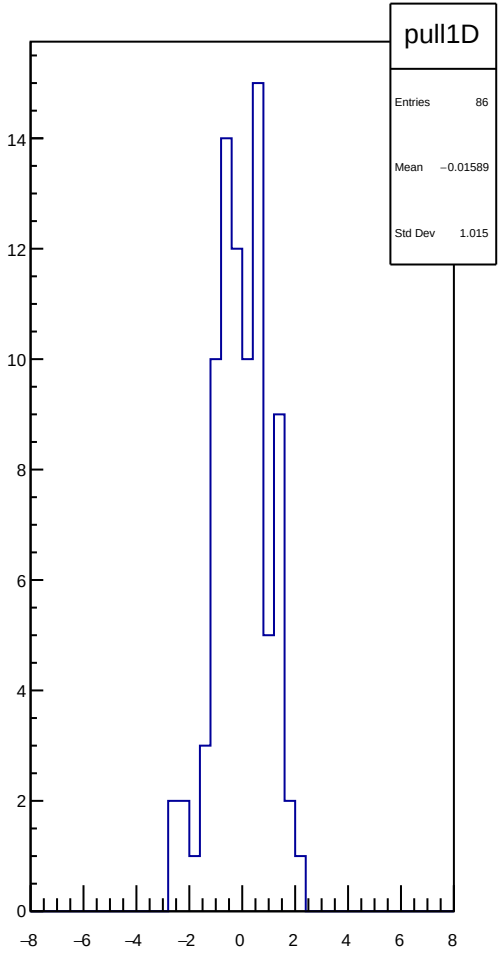

pull1D
Entries 86
Mean −0.006696
Std Dev 1.032

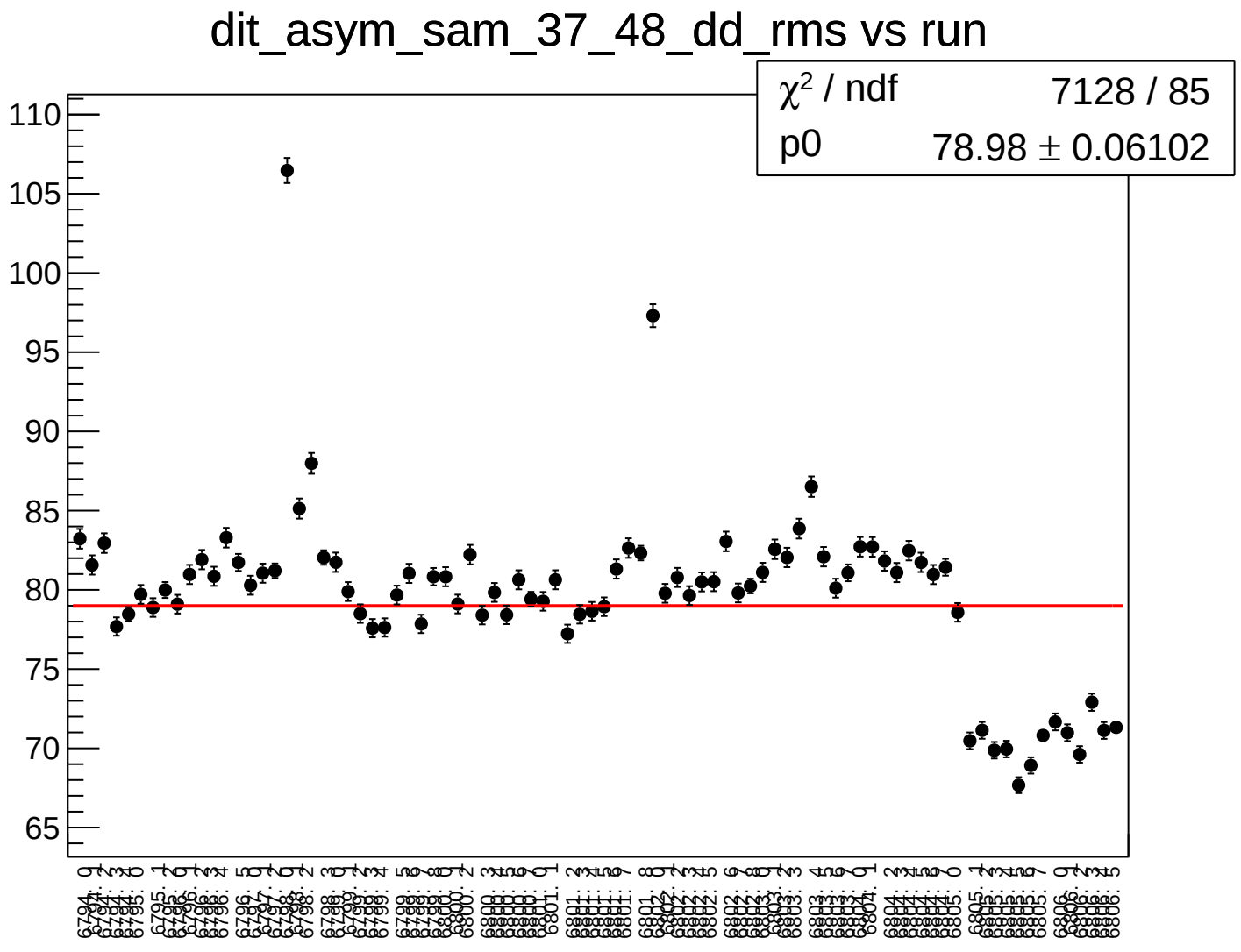

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 7013 / 85
p0 72.17 ± 0.05576
95
90
85
80
75
70
65
60

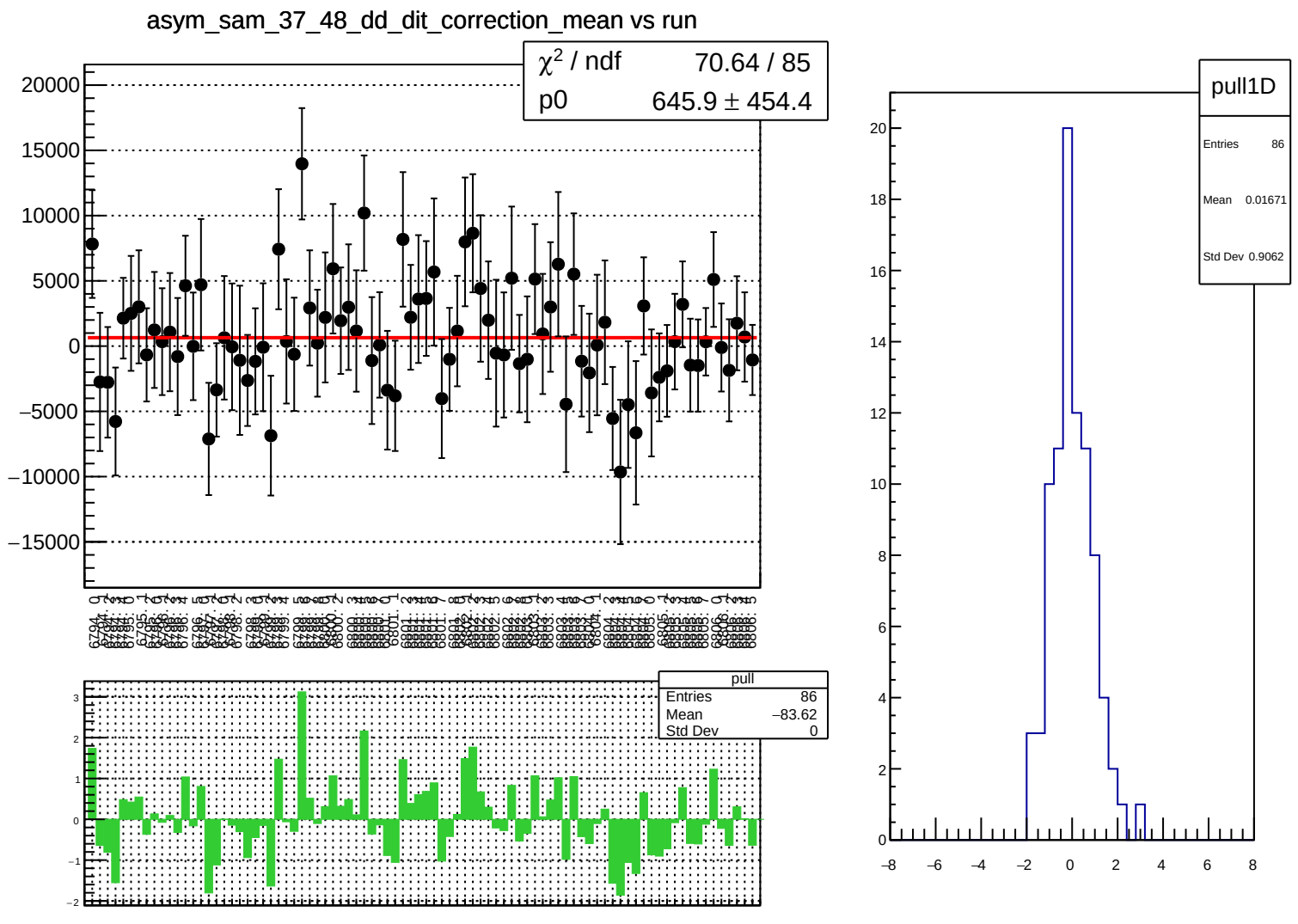

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.97 / 85
p0 570.9 ± 433
pull
Entries 86
Mean −76.85
Std Dev 0
pull1D
Entries 86
Mean 0.0178
Std Dev 0.9083

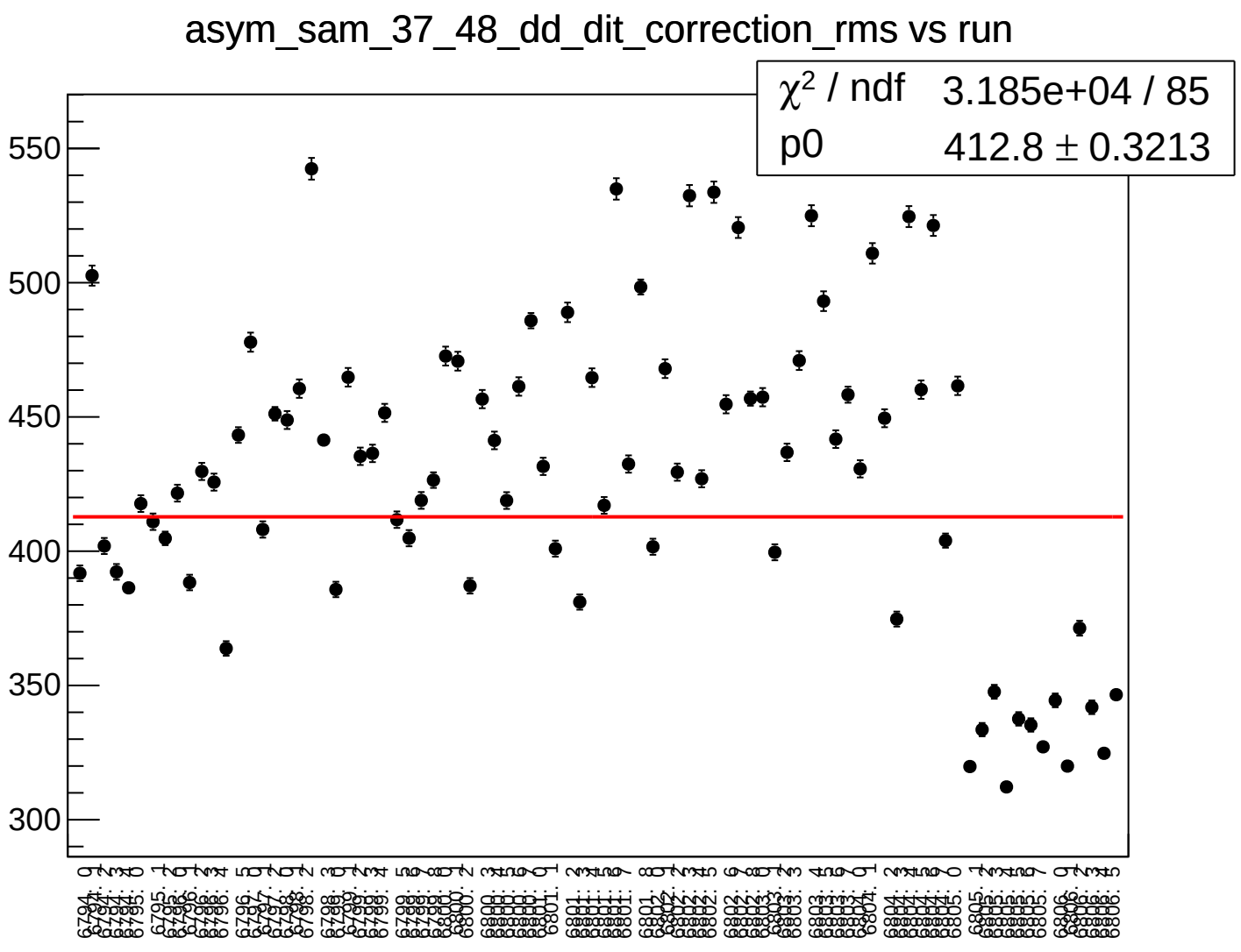

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.552e+04 / 85
p0 392.9 ± 0.3061
550
500
450
400
350
300

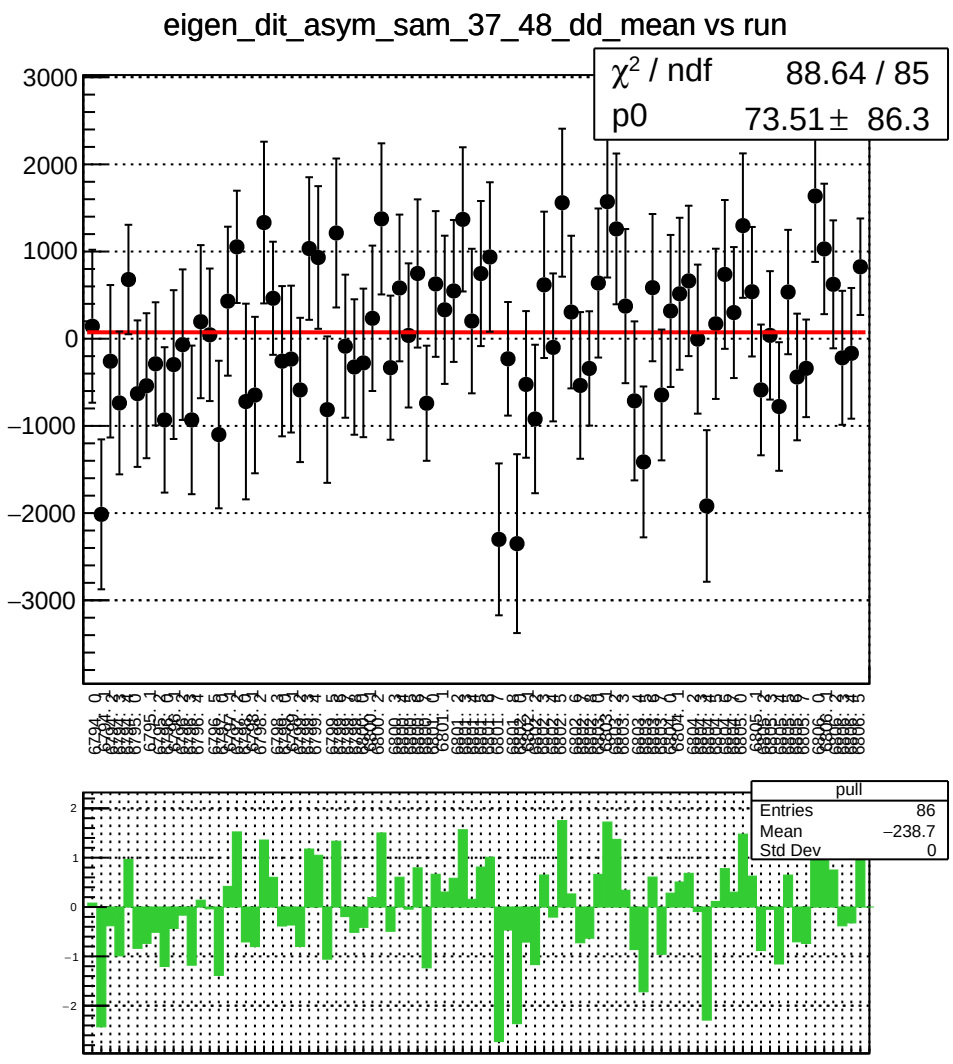

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 88.64 / 85
p0 73.51 ± 86.3
pull
Entries 86
Mean −238.7
Std Dev 0

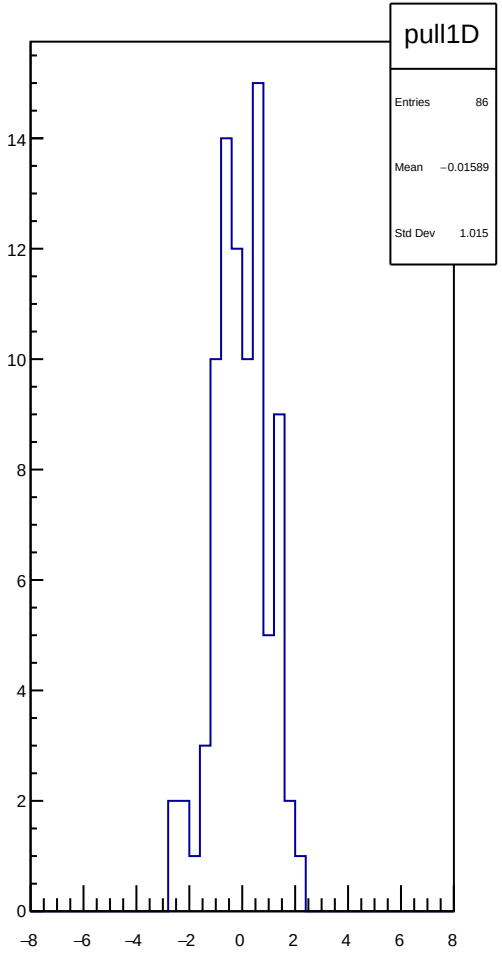

pull1D
Entries 86
Mean −0.01589
Std Dev 1.015

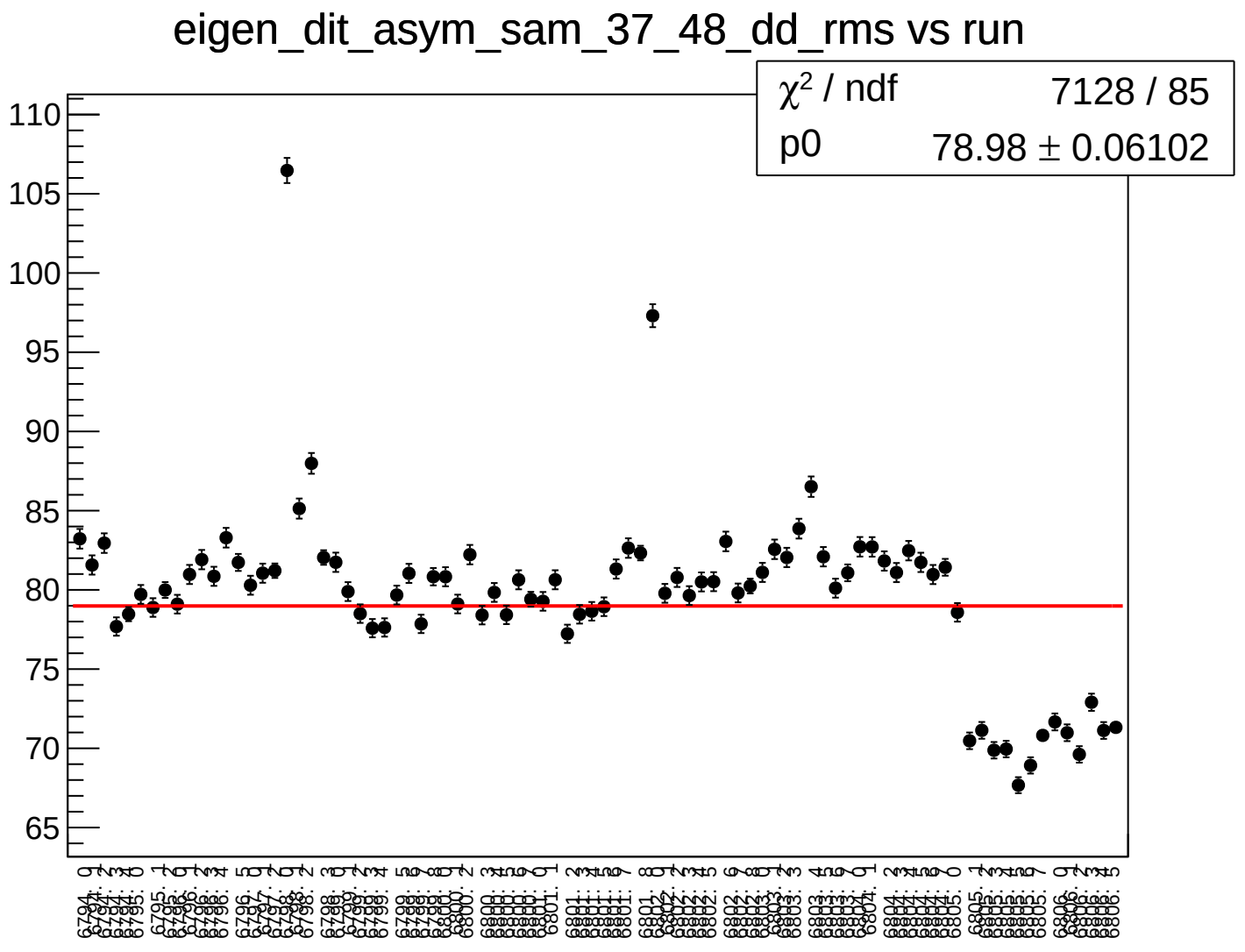

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7128 / 85
p0 78.98 ± 0.06102
110
105
100
95
90
85
80
75
70
65

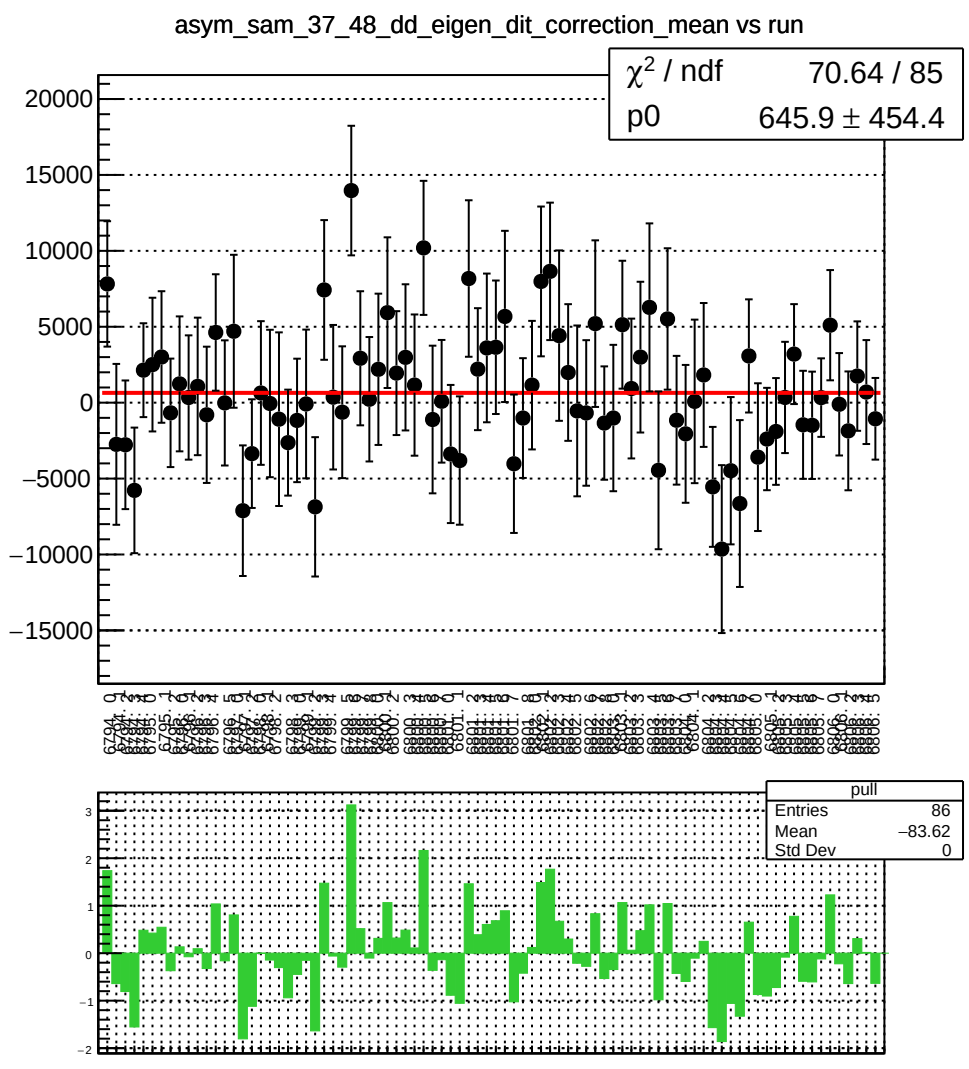

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 70.64 / 85
p0 645.9 ± 454.4
pull
Entries 86
Mean −83.62
Std Dev 0
pull1D
Entries 86
Mean 0.01671
Std Dev 0.9062

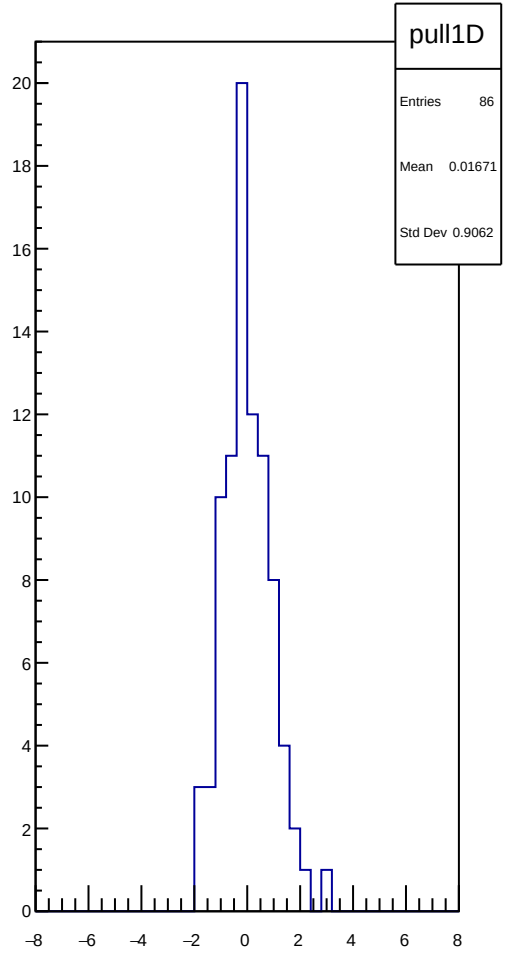

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 3.185e+04 / 85
p0 412.8 ± 0.3213
550
500
450
400
350
300

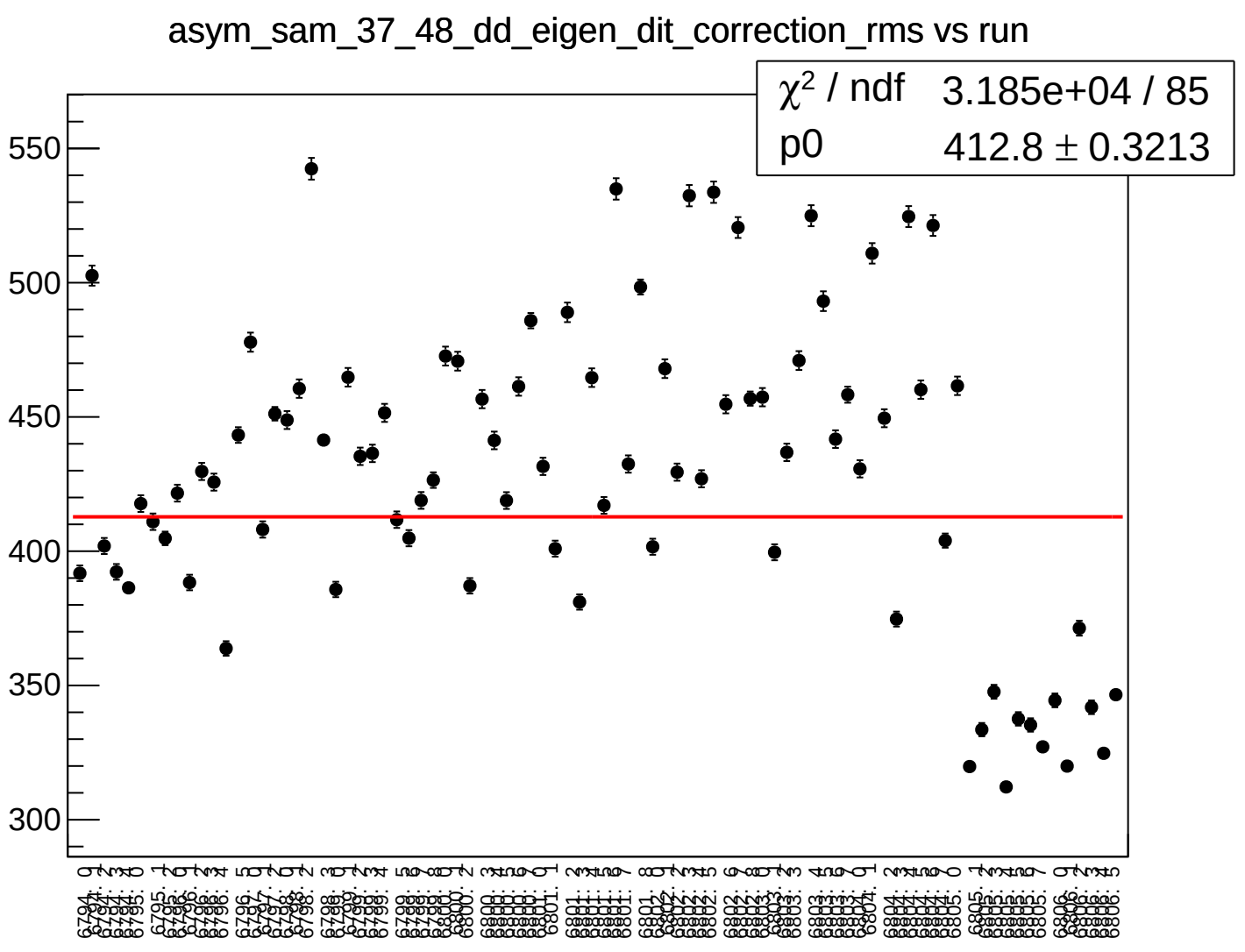

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 88.64 / 85
p0 73.51 ± 86.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −238.7
Std Dev 0
2
1
0
−1
−2

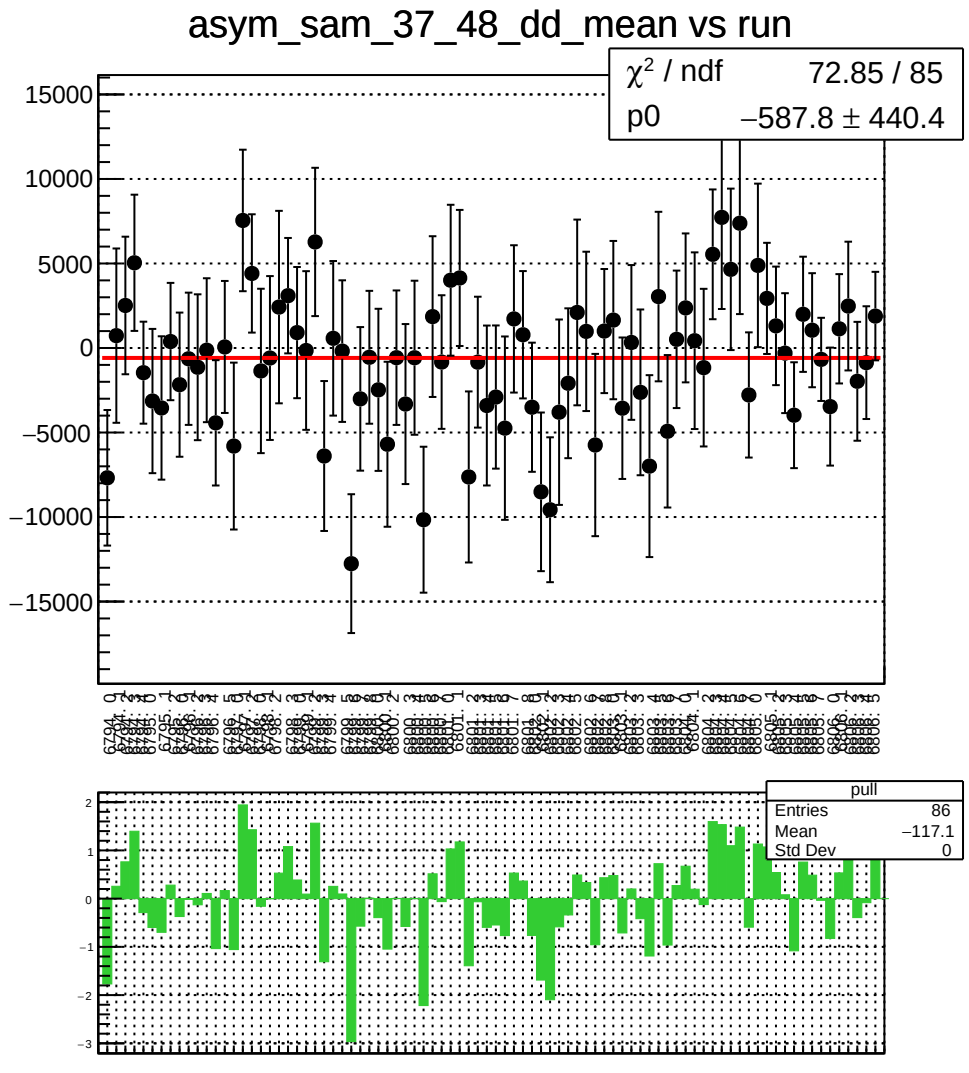

pull1D
Entries 86
Mean −0.01589
Std Dev 1.015
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

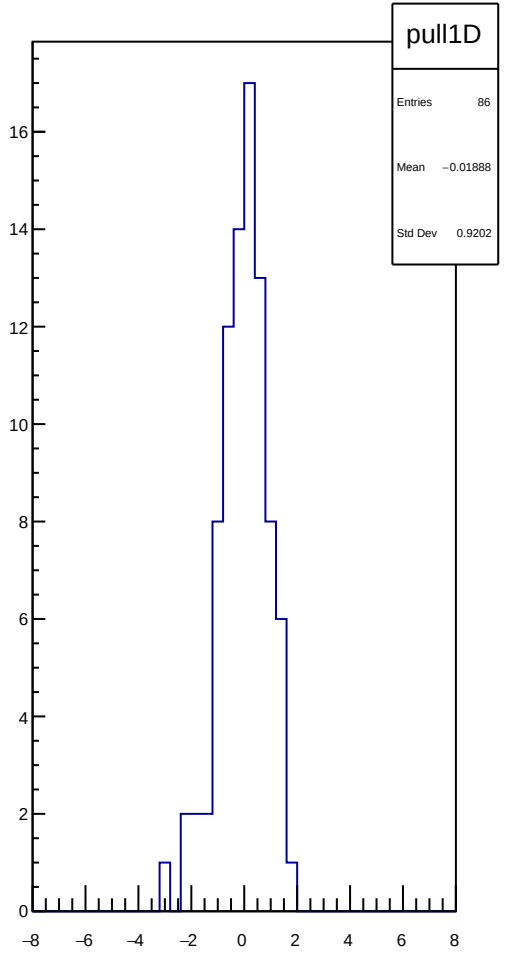

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 7128 / 85
p0 78.98 ± 0.06102
110
105
100
95
90
85
80
75
70
65

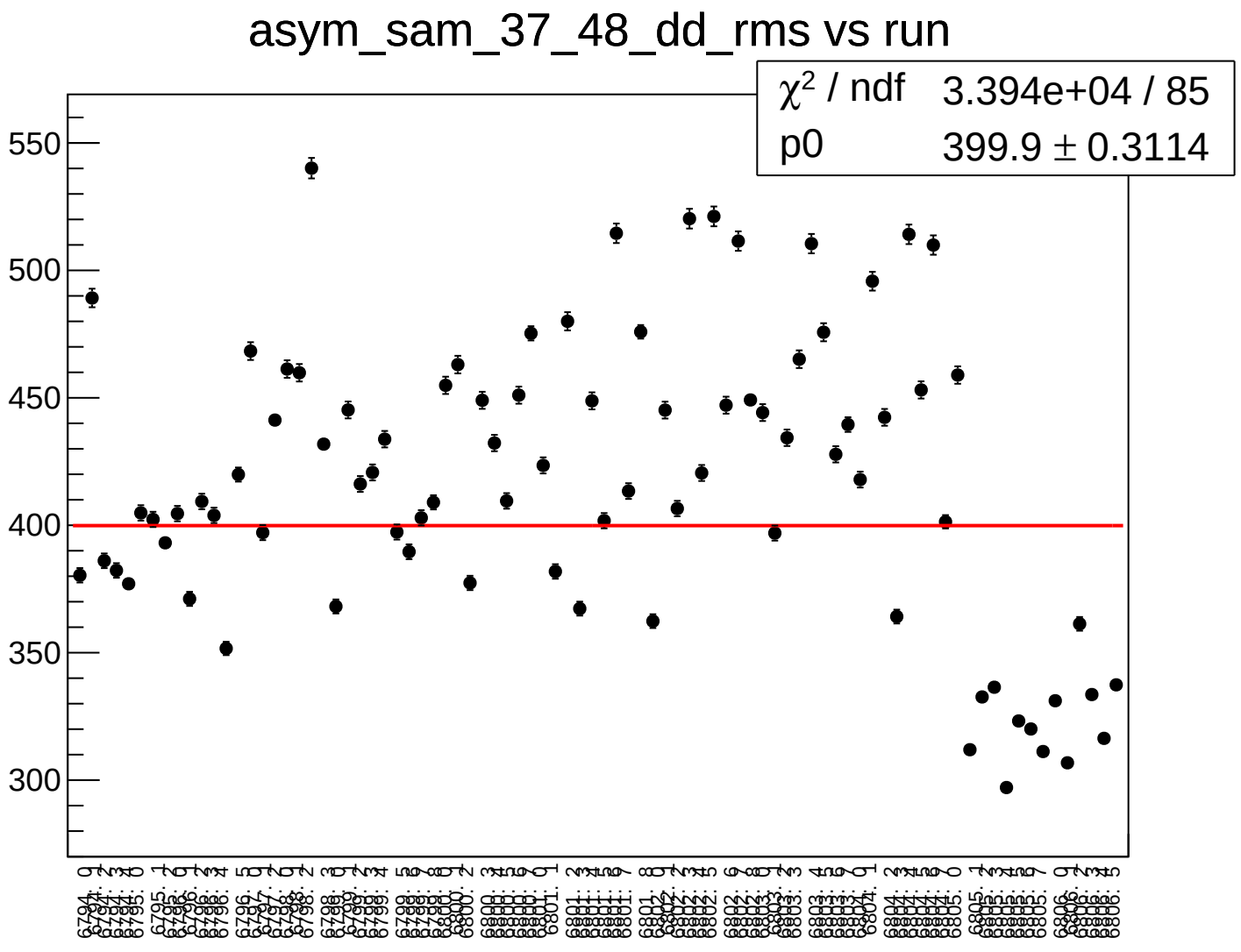

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.64 / 85
p0 645.9 ± 454.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −83.62
Std Dev 0
3
2
1
0
−1
−2

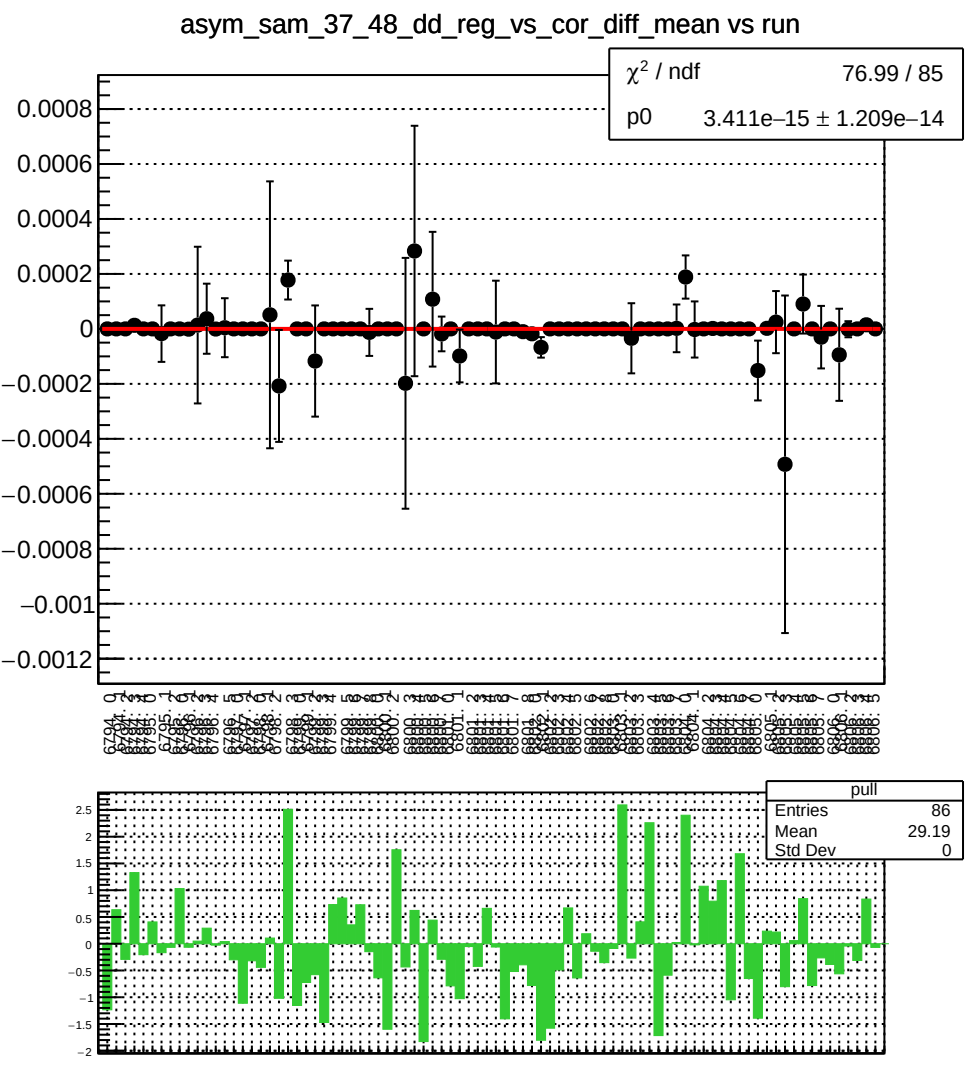

pull1D
Entries 86
Mean 0.01671
Std Dev 0.9062
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

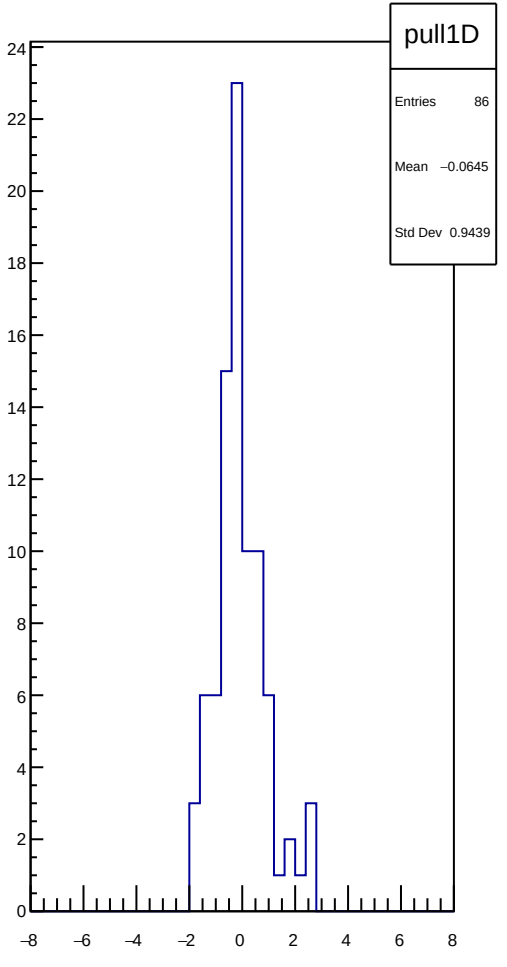

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.185e+04 / 85
p0 412.8 ± 0.3213
550
500
450
400
350
300

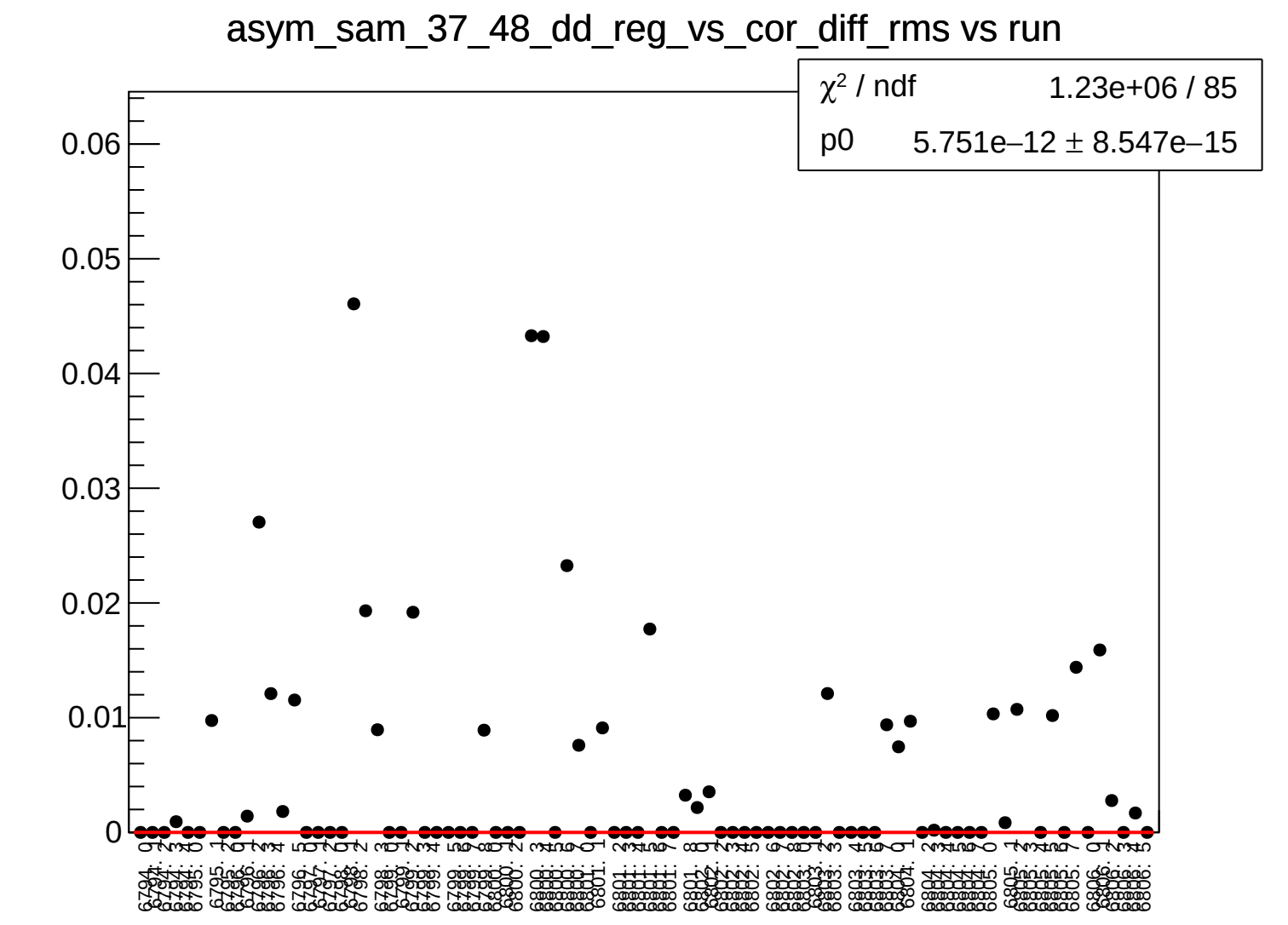

asym_sam_37_48_dd_mean vs run
χ² / ndf 72.85 / 85
p0 −587.8 ± 440.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −117.1
Std Dev 0
2
1
0
−1
−2
−3

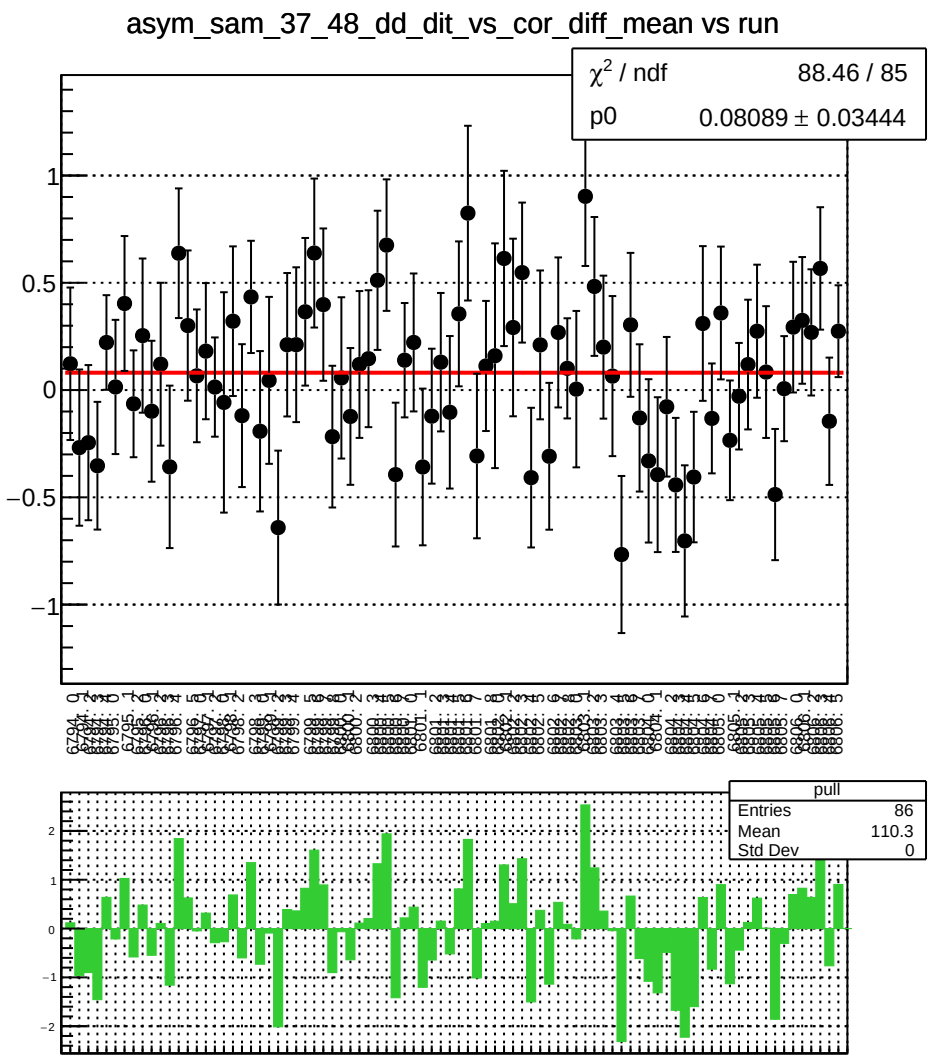

pull1D
Entries 86
Mean −0.01888
Std Dev 0.9202
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

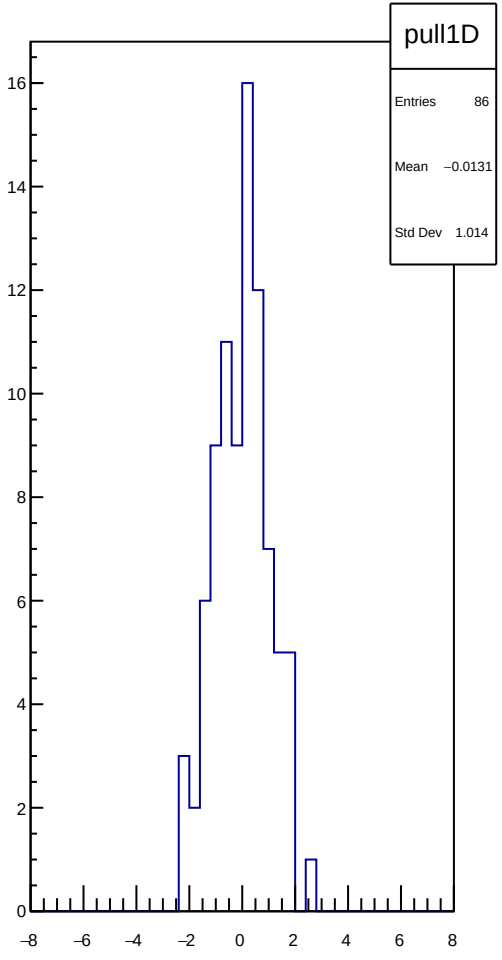

asym_sam_37_48_dd_rms vs run
χ² / ndf 3.394e+04 / 85
p0 399.9 ± 0.3114
550
500
450
400
350
300

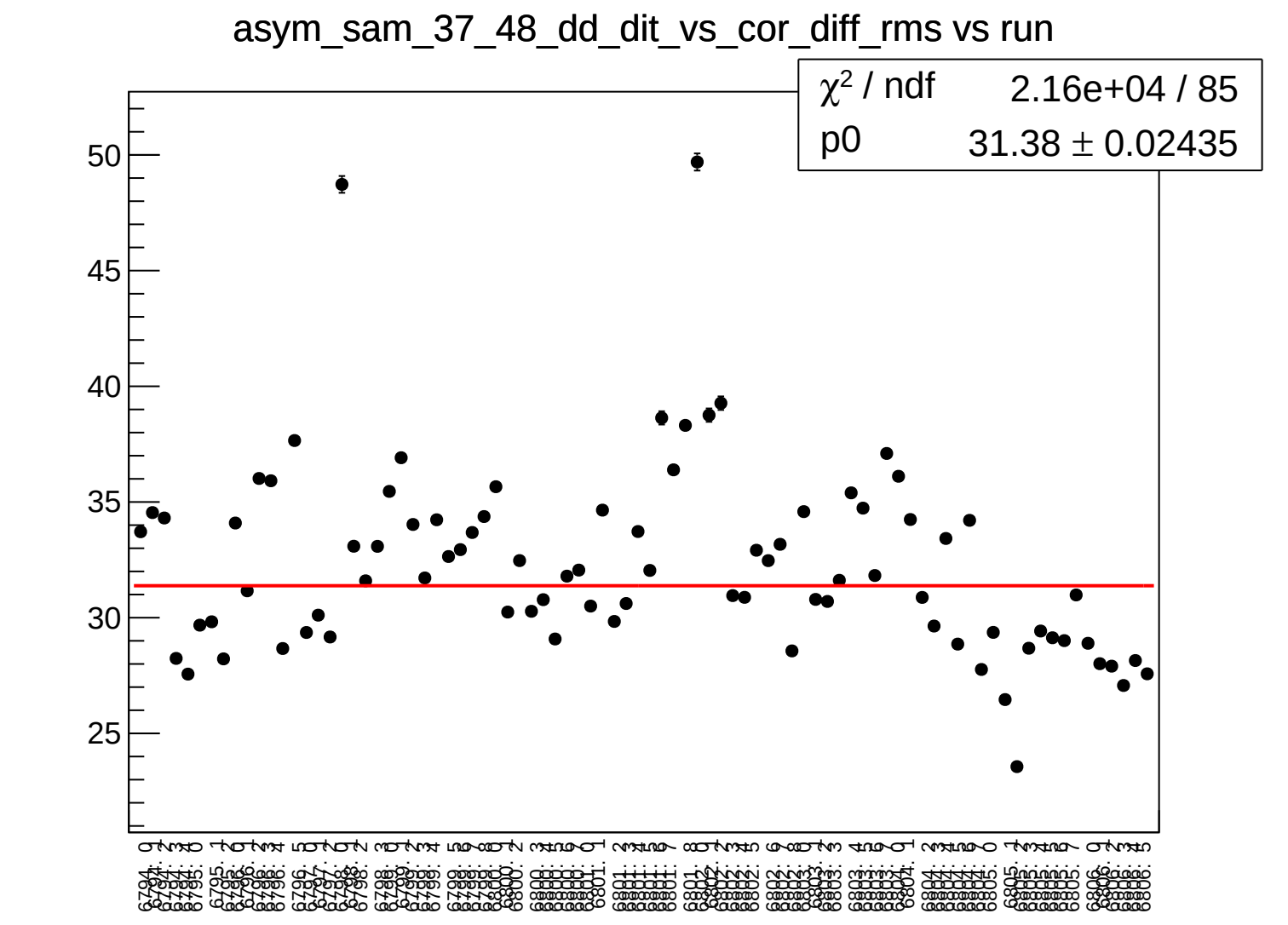

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.99 / 85
p0 3.411e−15 ± 1.209e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 86
Mean 29.19
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

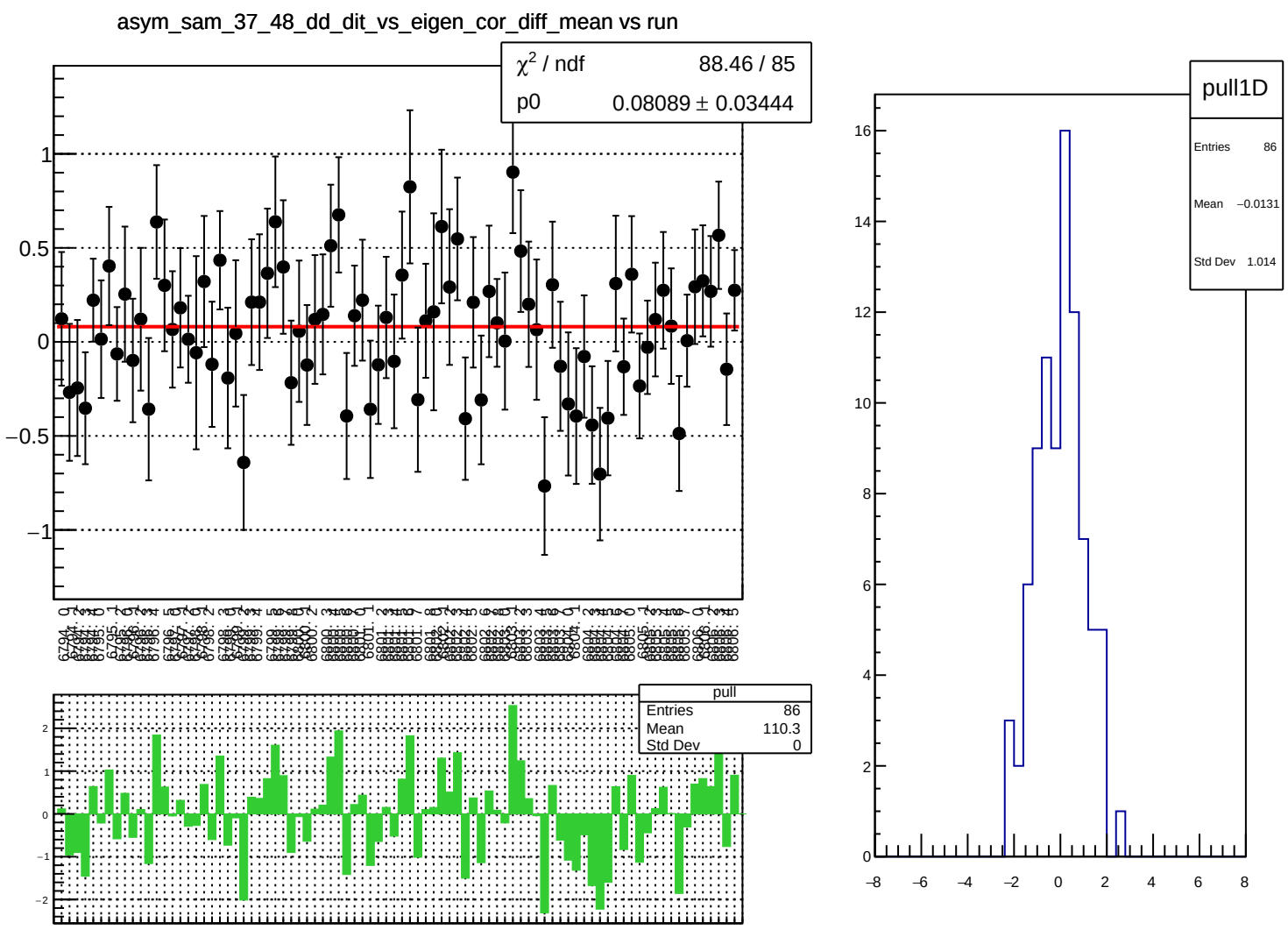

pull1D
Entries 86
Mean −0.0645
Std Dev 0.9439
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

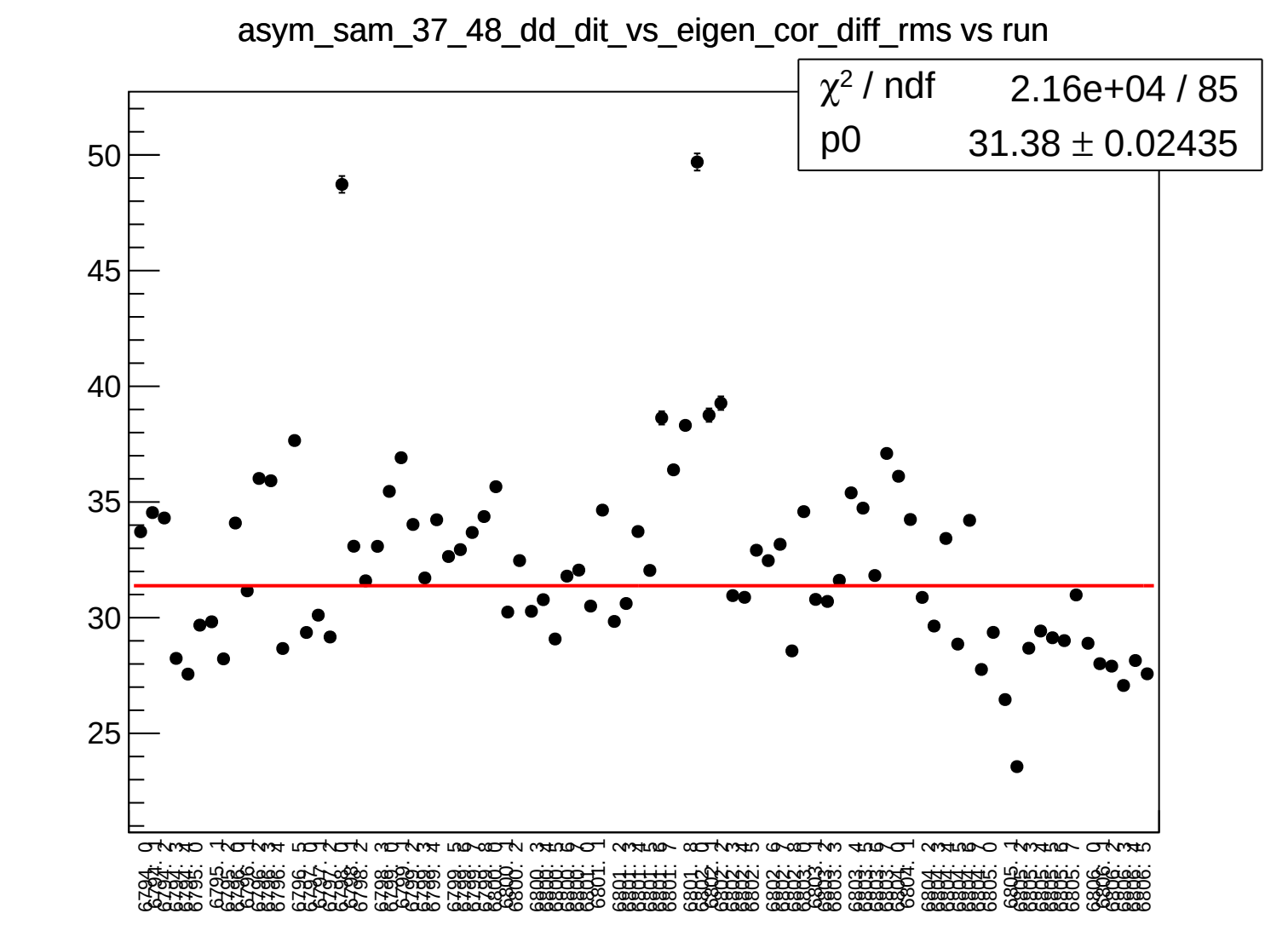

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.23e+06 / 85
p0 5.751e−12 ± 8.547e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

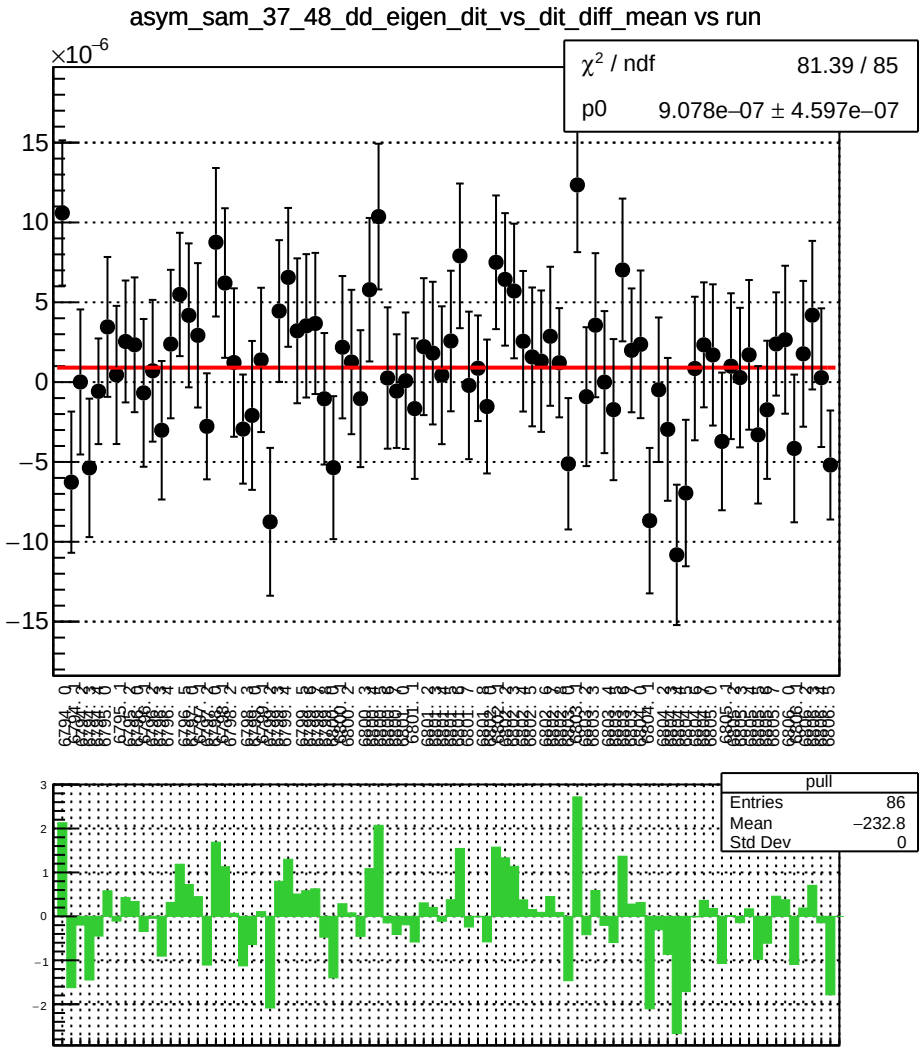

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.46 / 85
p0 0.08089 ± 0.03444
pull
Entries 86
Mean 110.3
Std Dev 0

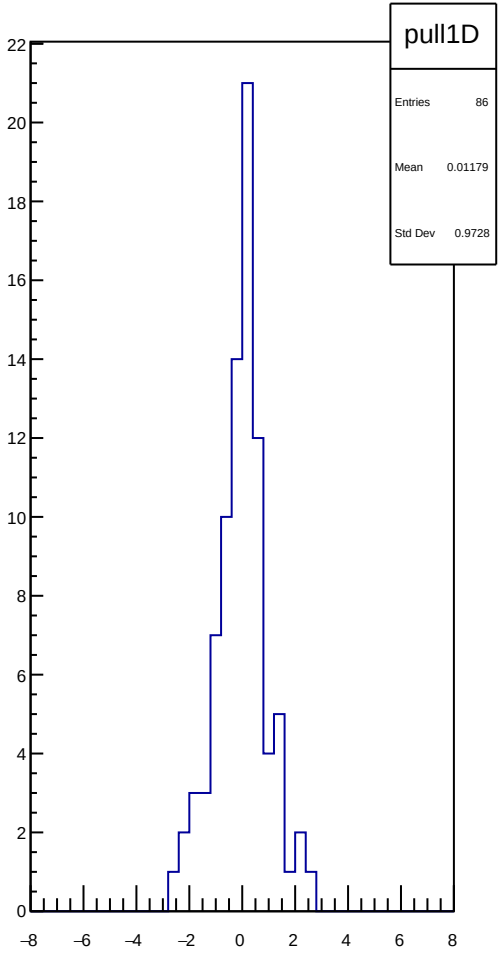

pull1D
Entries 86
Mean −0.0131
Std Dev 1.014

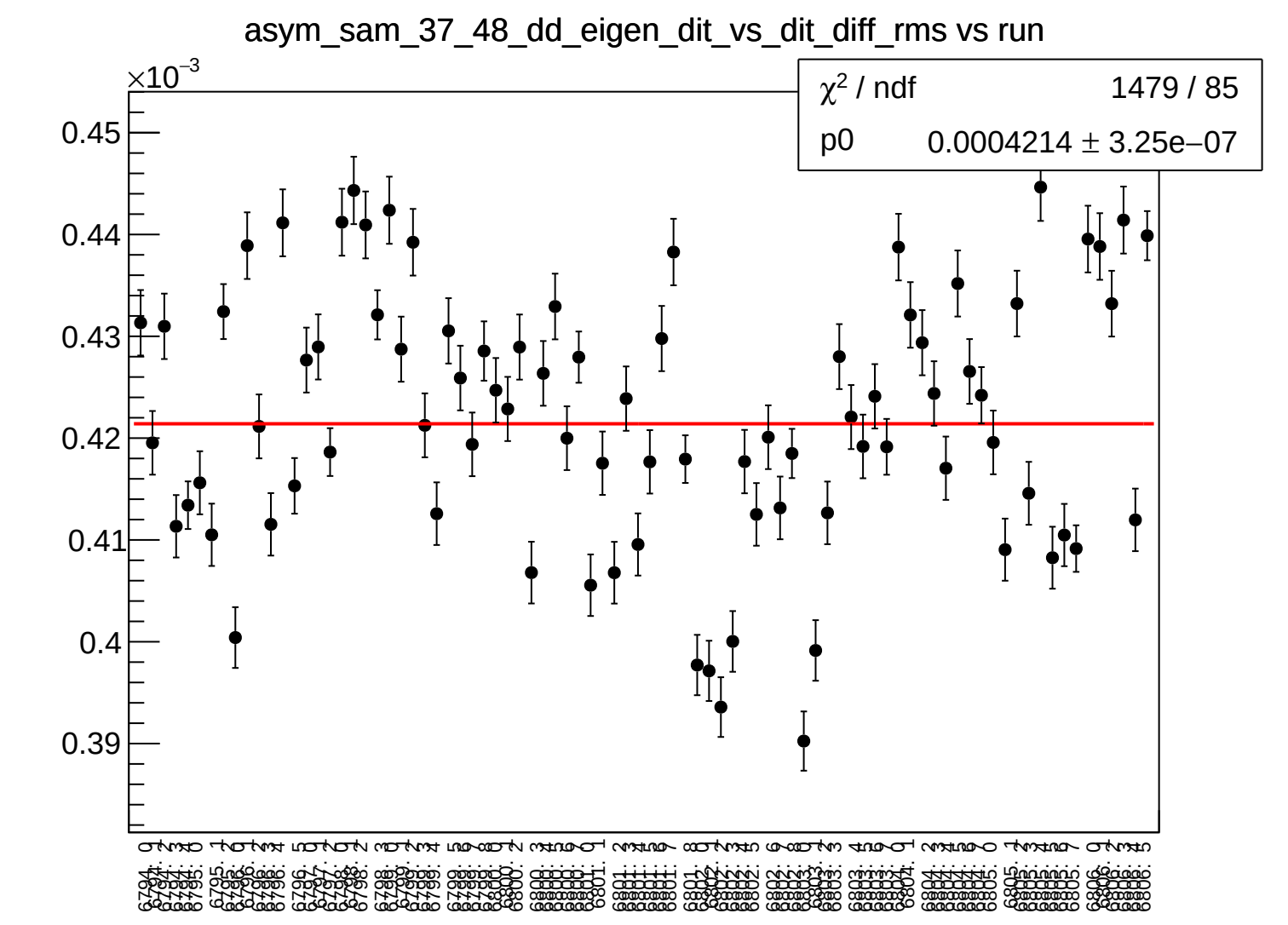

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 85
p0 31.38 ± 0.02435
50
45
40
35
30
25

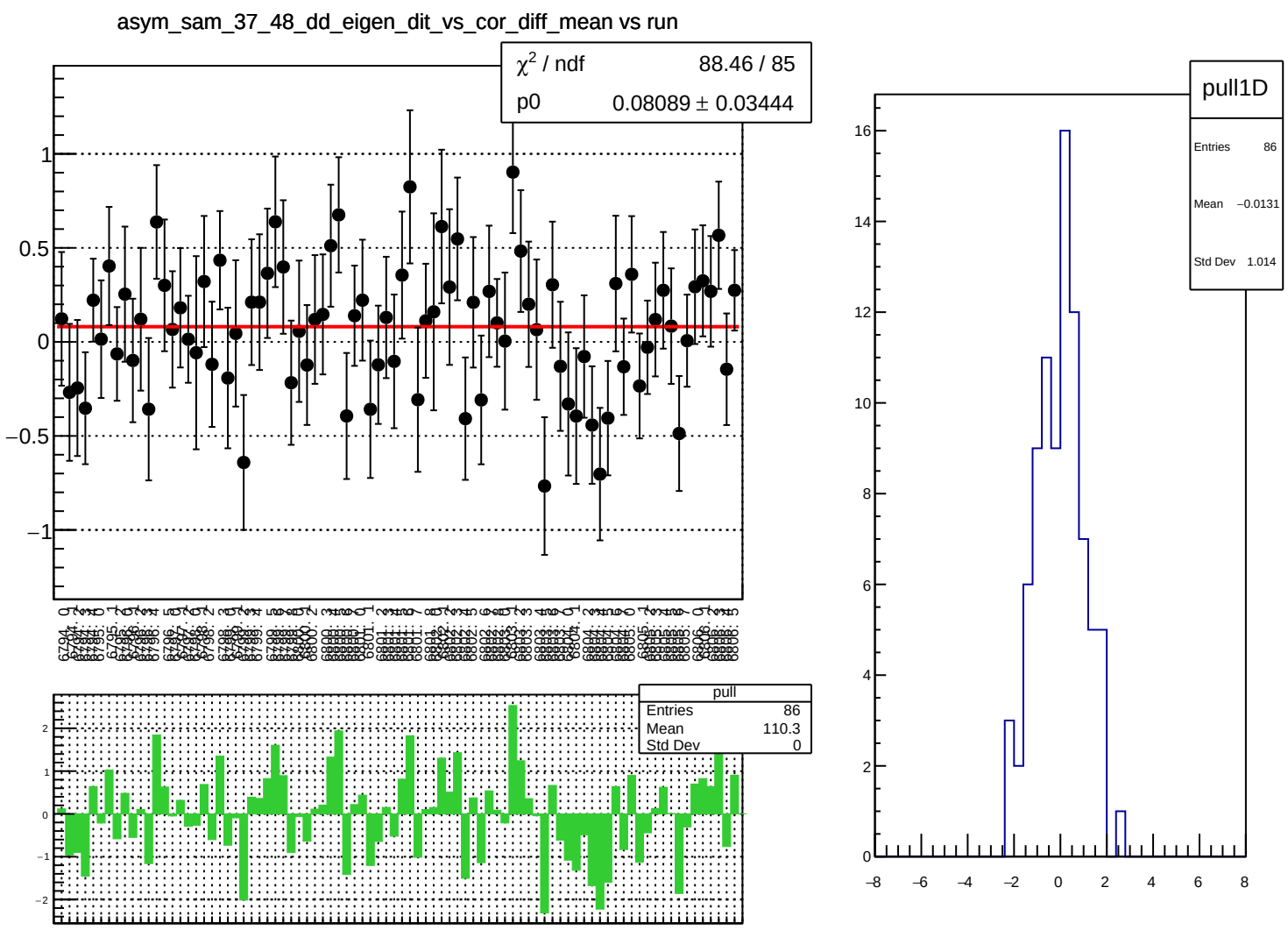

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.46 / 85
p0 0.08089 ± 0.03444
pull
Entries 86
Mean 110.3
Std Dev 0
pull1D
Entries 86
Mean −0.0131
Std Dev 1.014

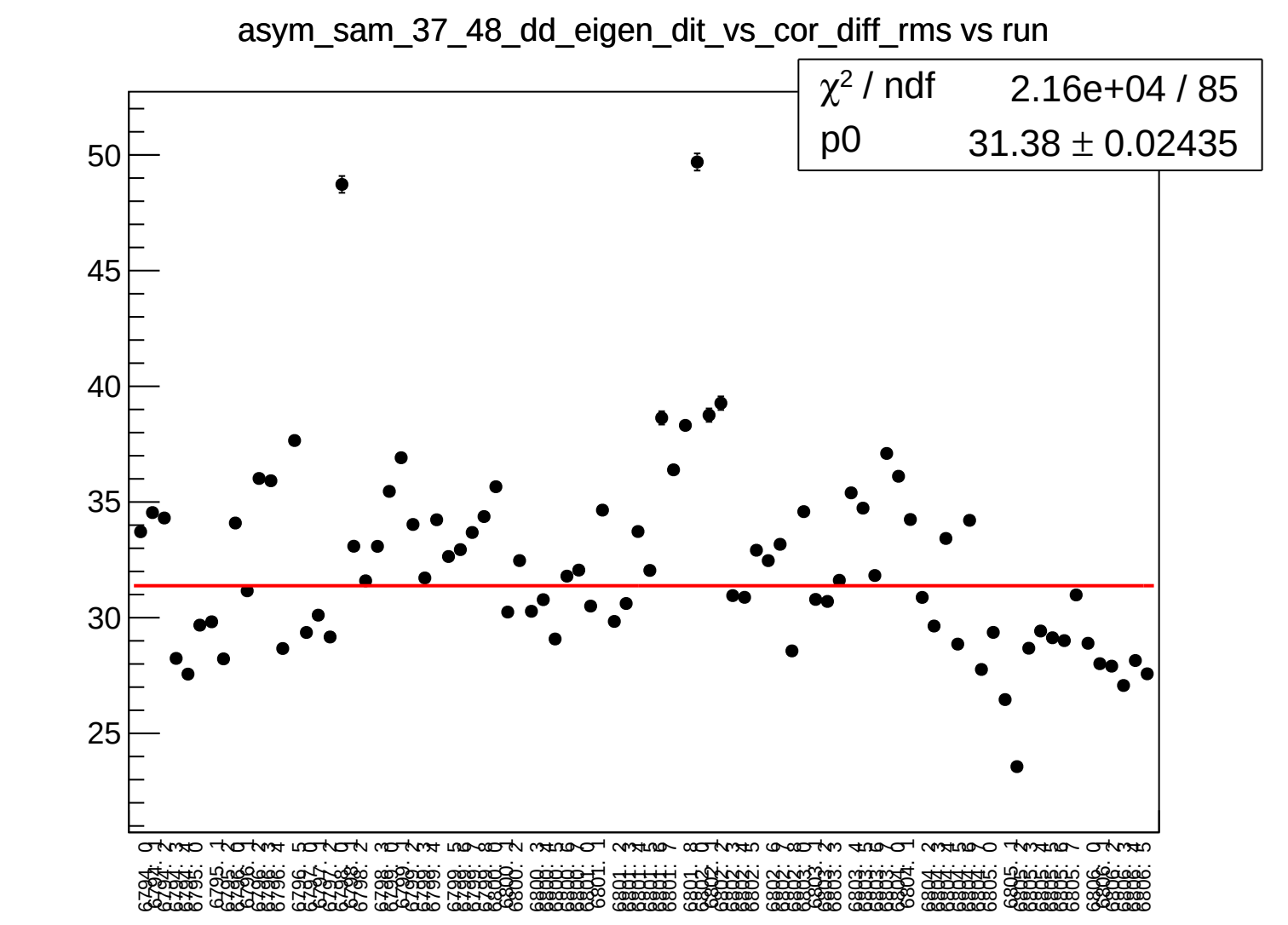

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 85
p0 31.38 ± 0.02435
50
45
40
35
30
25

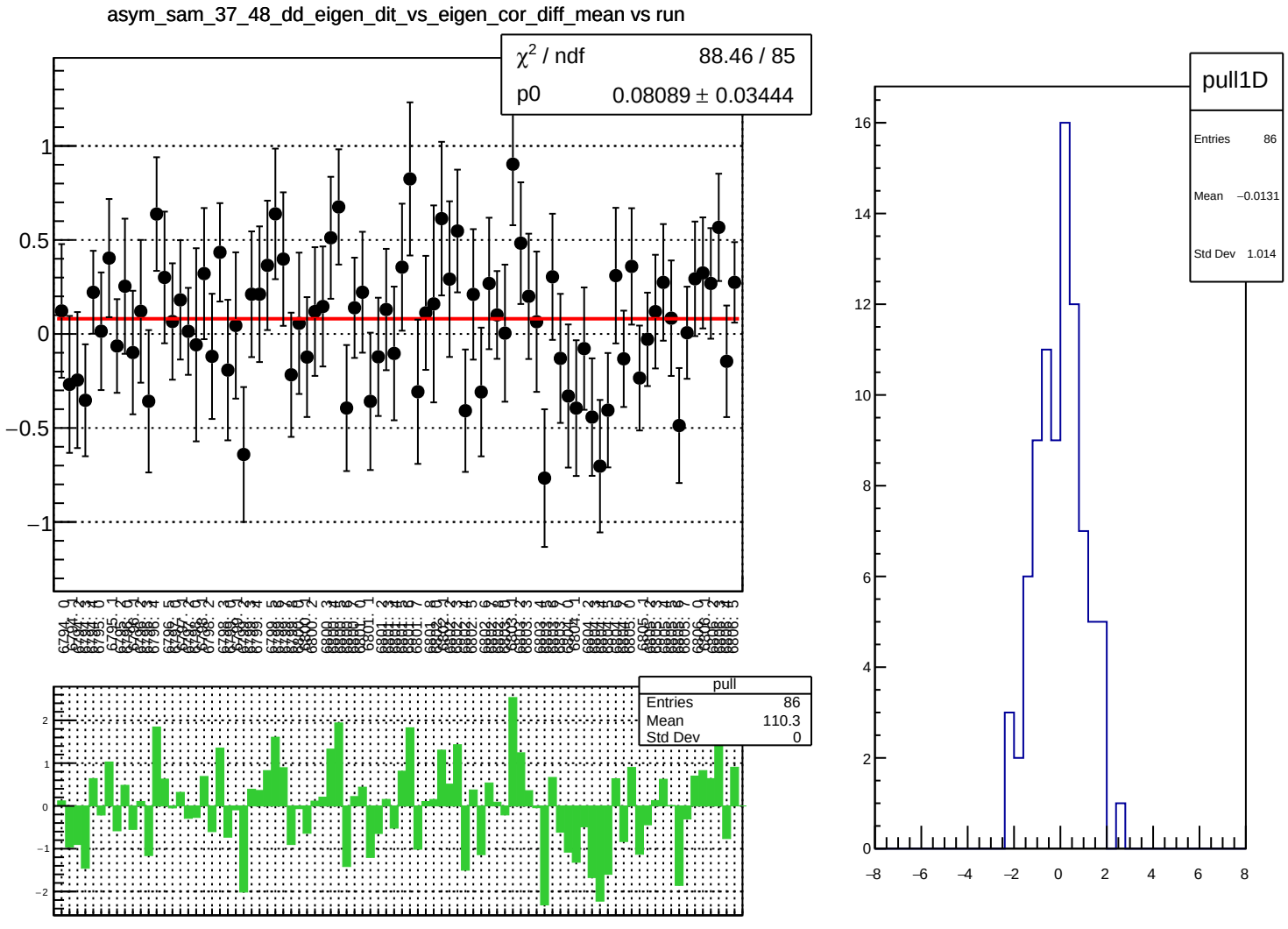

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻⁶
χ² / ndf 81.39 / 85
p0 9.078e−07 ± 4.597e−07
pull
Entries 86
Mean −232.8
Std Dev 0

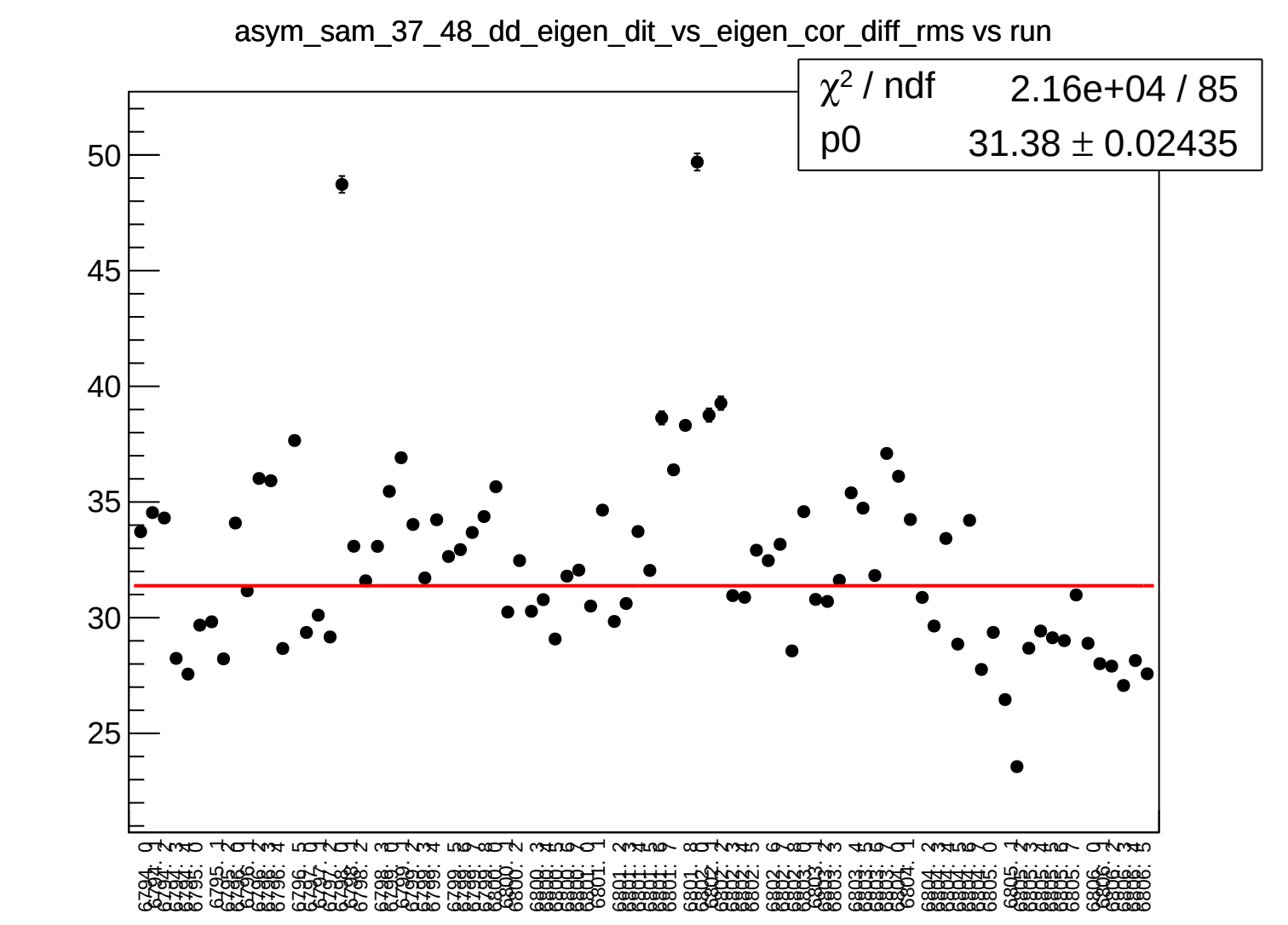

pull1D
Entries 86
Mean 0.01179
Std Dev 0.9728

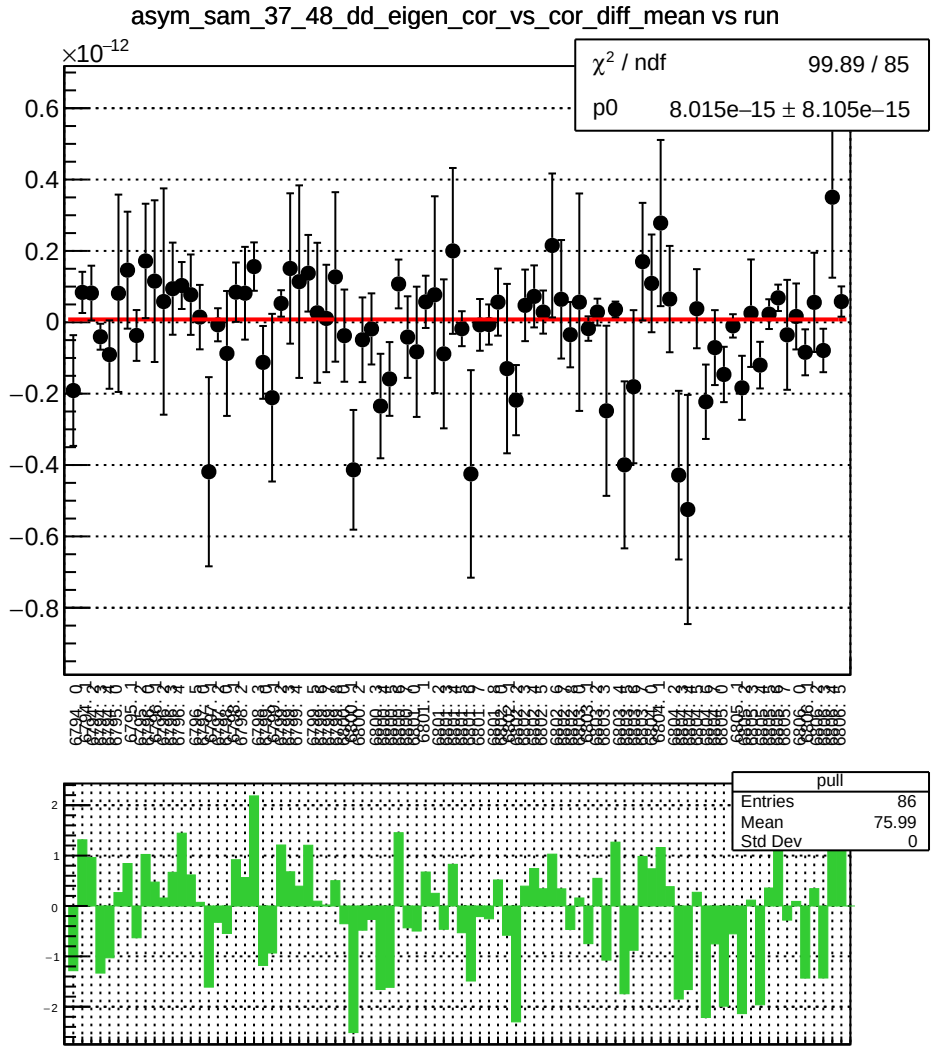

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1479 / 85
p0 0.0004214 ± 3.25e−07
0.45
0.44
0.43
0.42
0.41
0.4
0.39

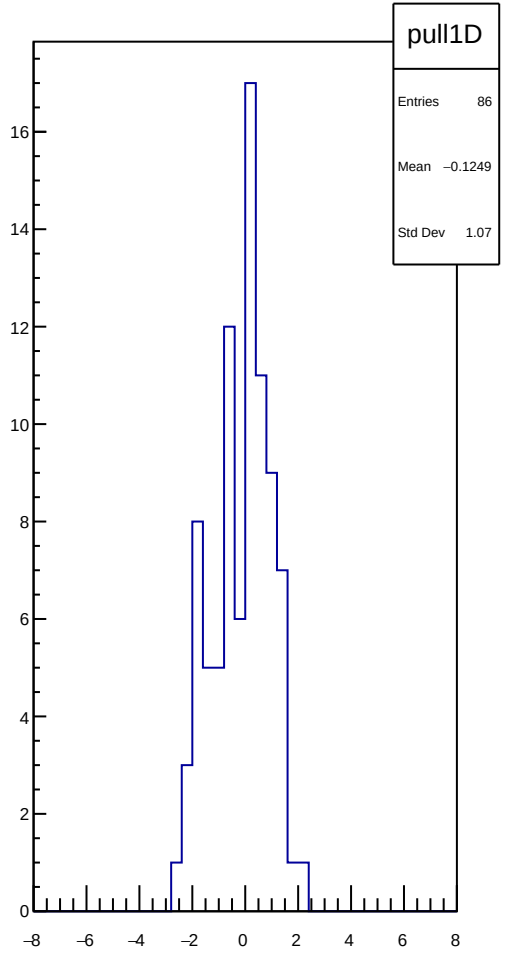

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.46 / 85
p0 0.08089 ± 0.03444
pull
Entries 86
Mean 110.3
Std Dev 0
pull1D
Entries 86
Mean −0.0131
Std Dev 1.014

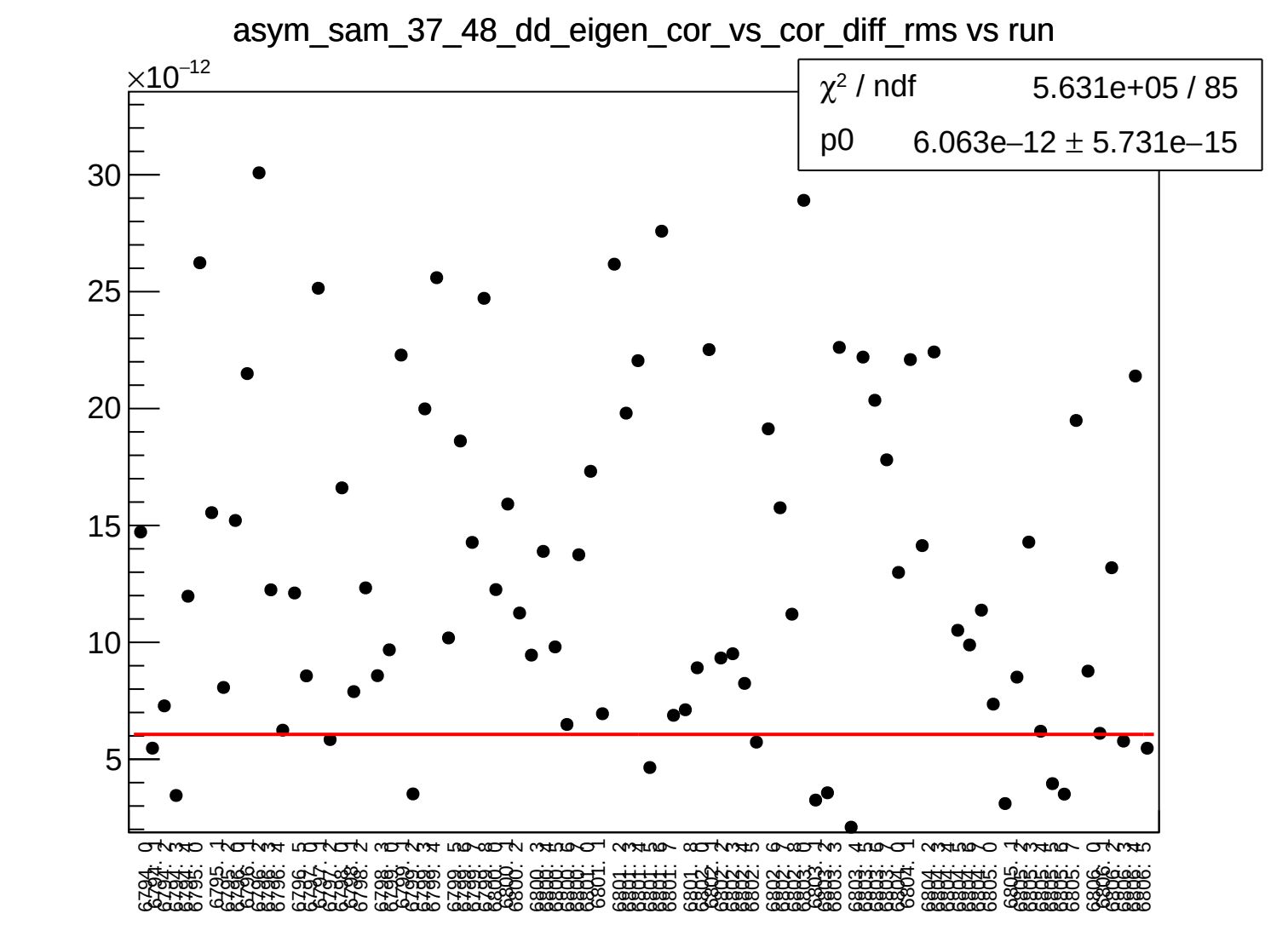

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 85
p0 31.38 ± 0.02435
50
45
40
35
30
25

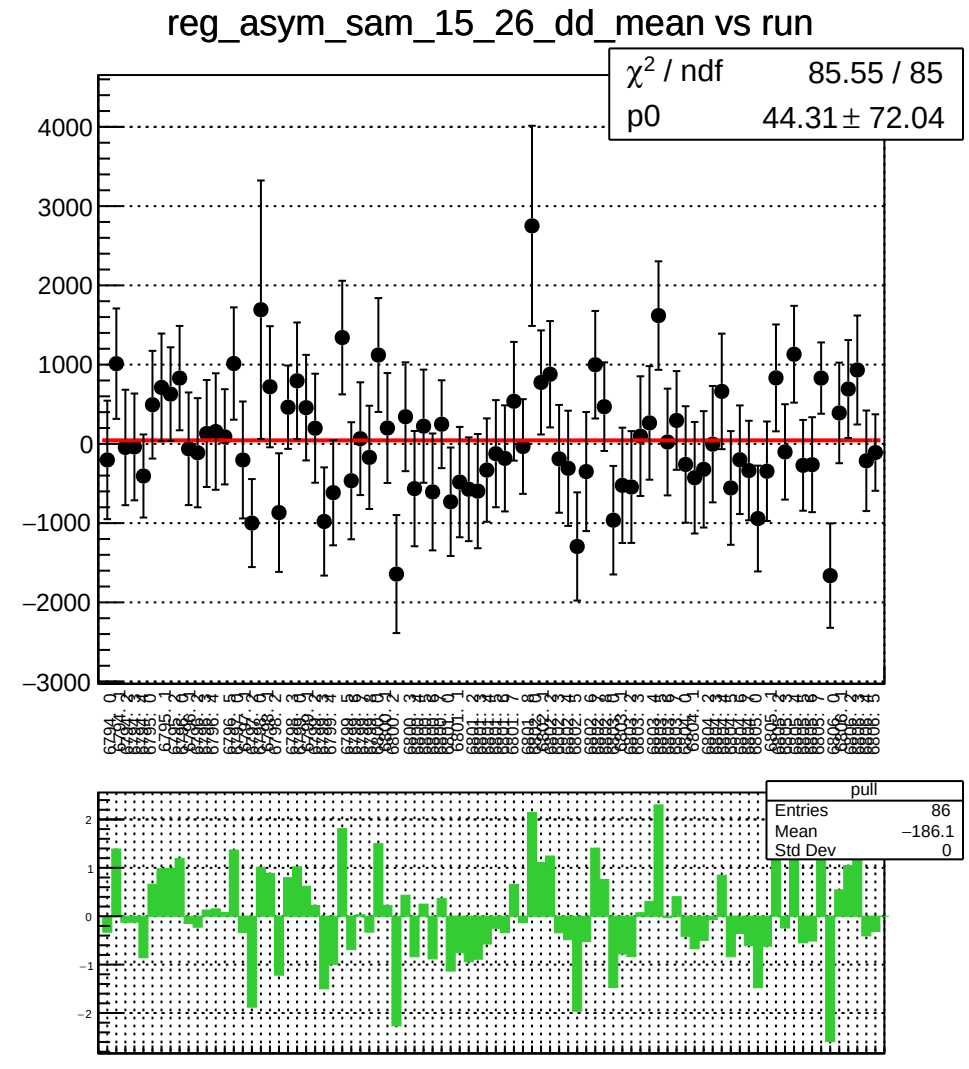

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.46 / 85
p0 0.08089 ± 0.03444
pull
Entries 86
Mean 110.3
Std Dev 0
pull1D
Entries 86
Mean −0.0131
Std Dev 1.014

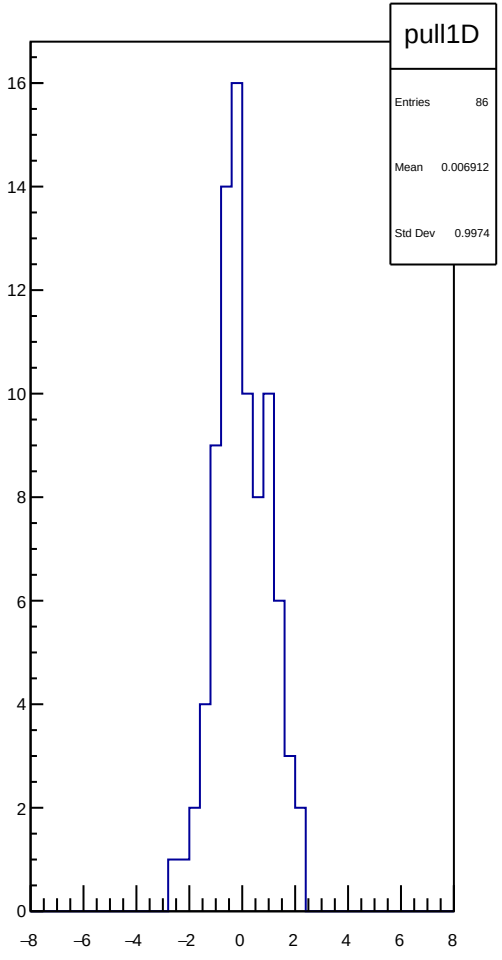

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.16e+04 / 85
p0 31.38 ± 0.02435
50
45
40
35
30
25

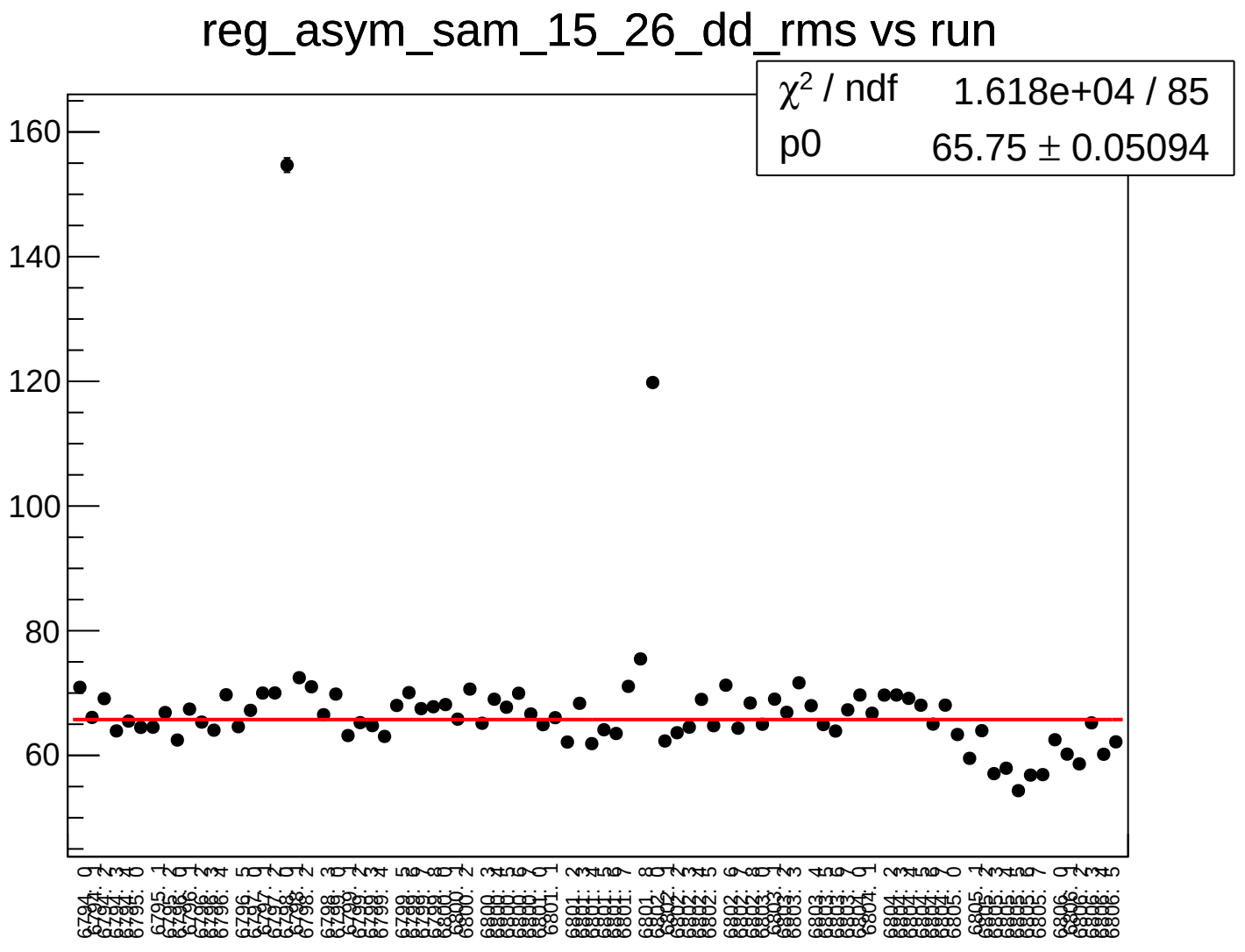

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.89 / 85
p0 8.015e−15 ± 8.105e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 86
Mean 75.99
Std Dev 0
2
1
0
−1
−2

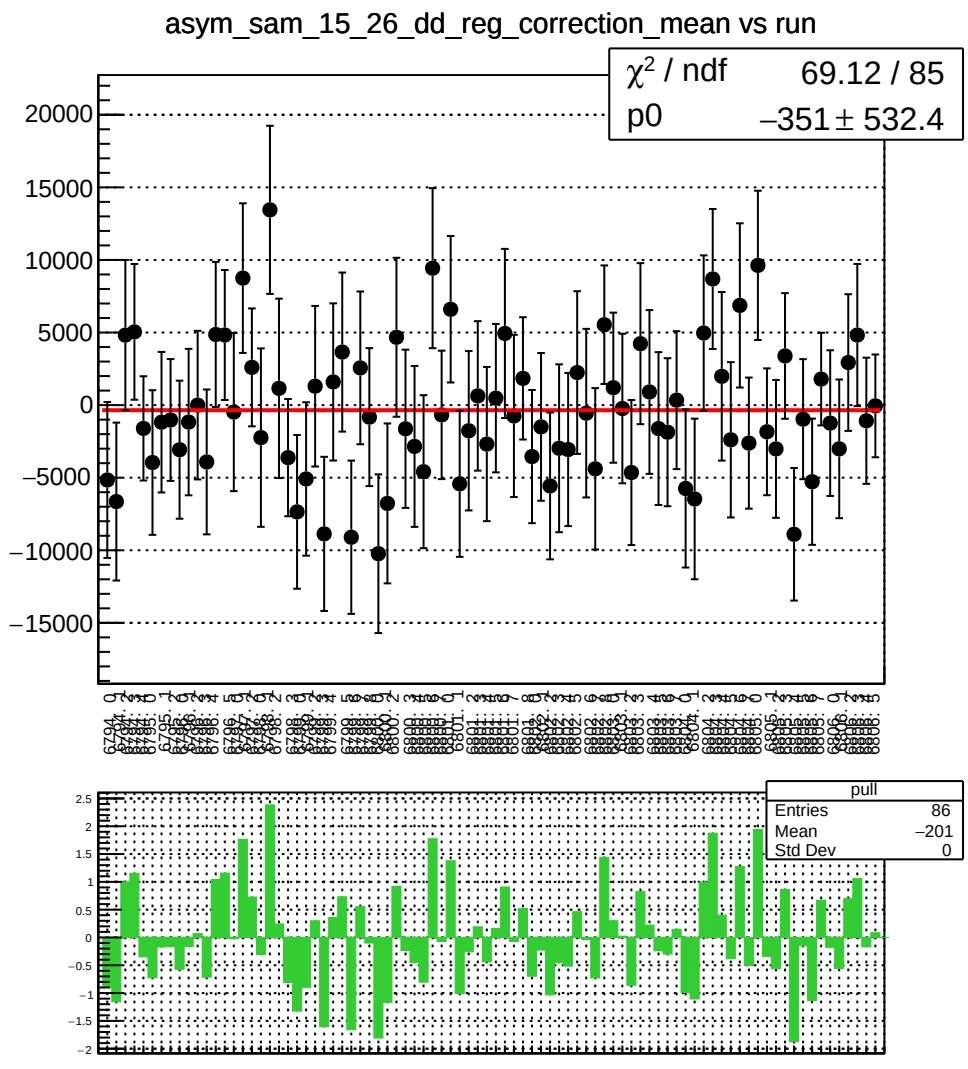

pull1D
Entries 86
Mean −0.1249
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

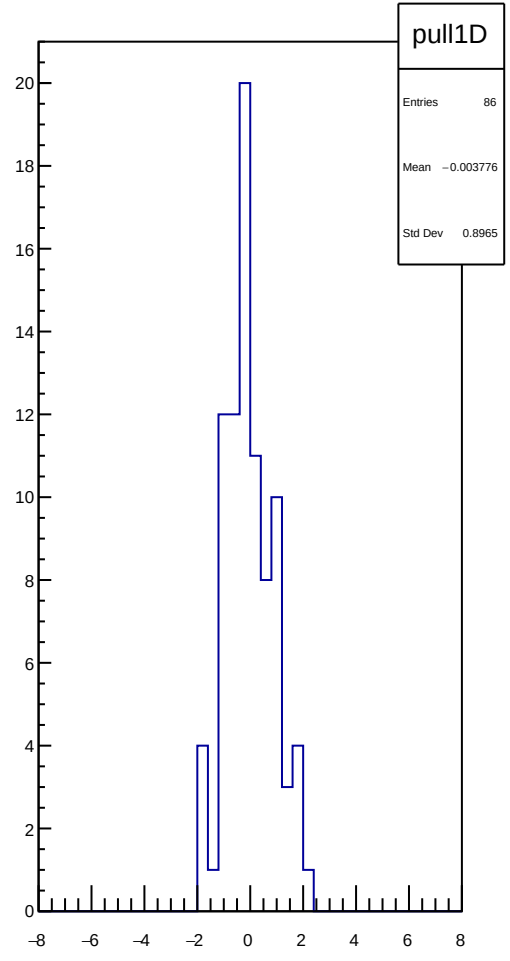

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.631e+05 / 85
p0 6.063e−12 ± 5.731e−15
30
25
20
15
10
5

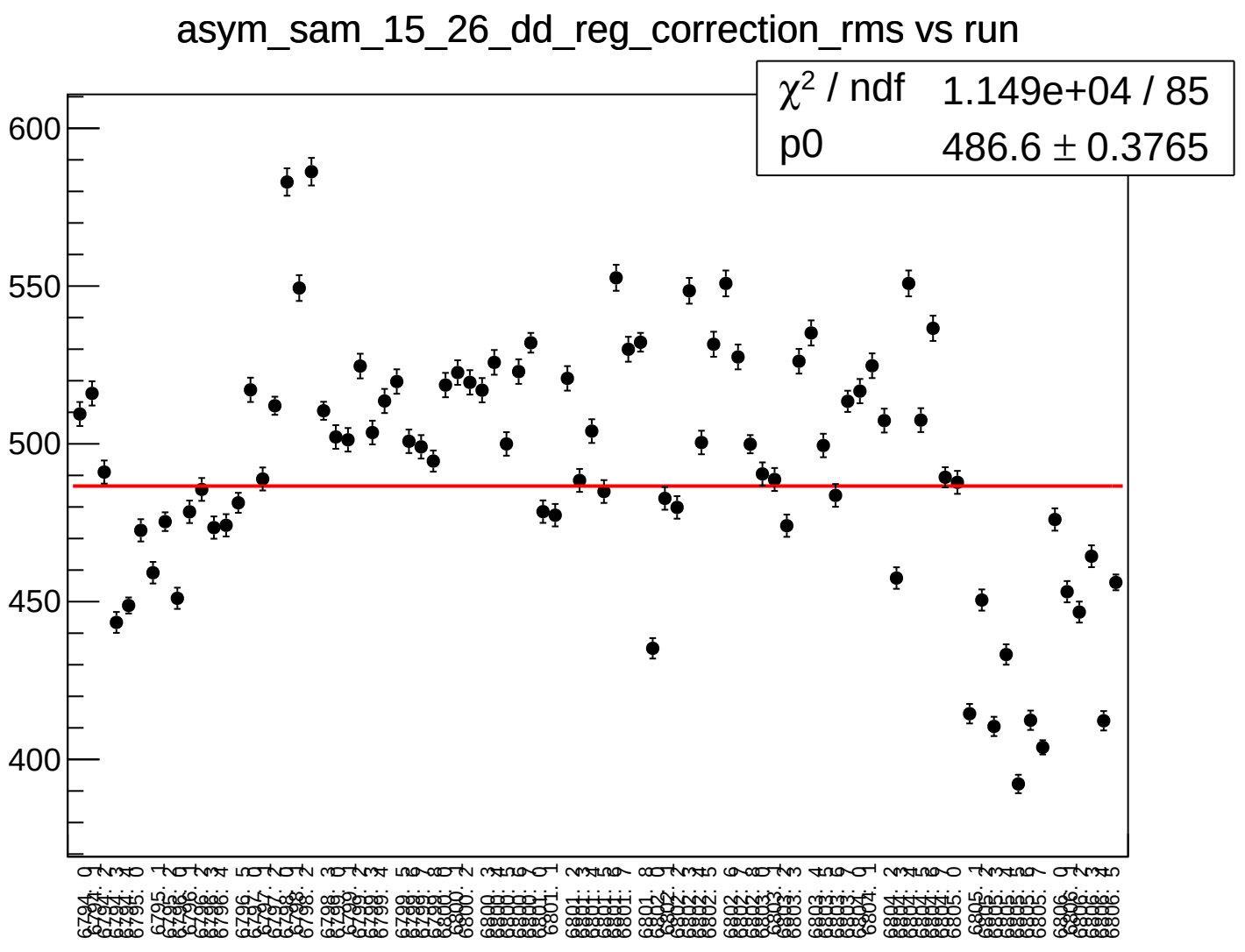

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.55 / 85
p0 44.31 ± 72.04
pull
Entries 86
Mean −186.1
Std Dev 0

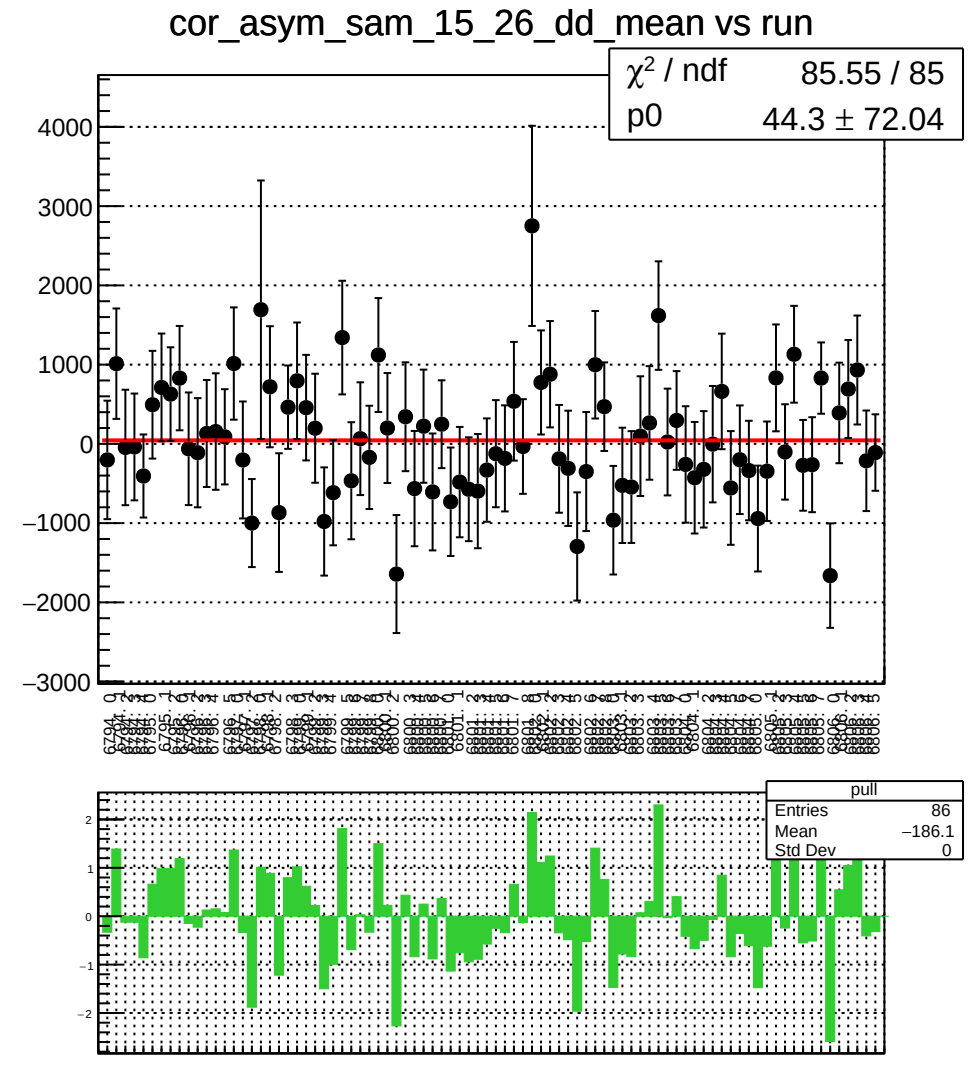

pull1D
Entries 86
Mean 0.006912
Std Dev 0.9974

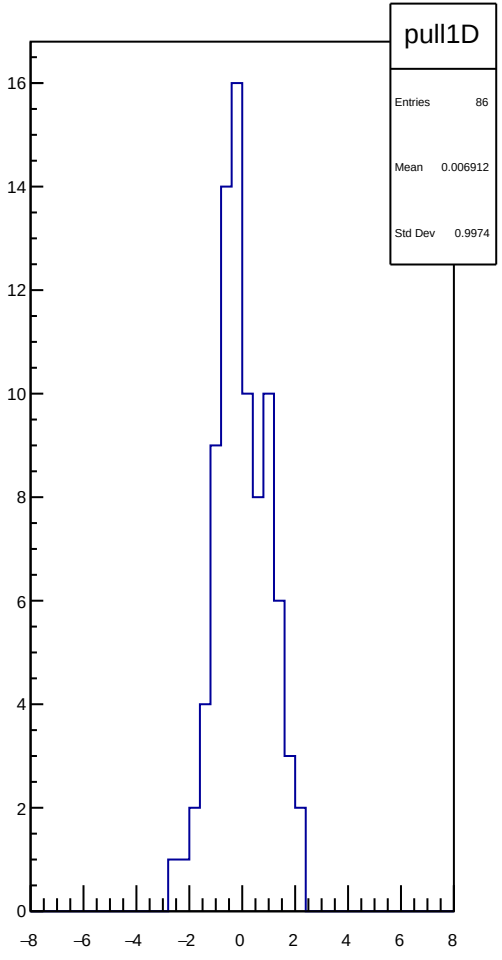

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.618e+04 / 85
p0 65.75 ± 0.05094
160
140
120
100
80
60

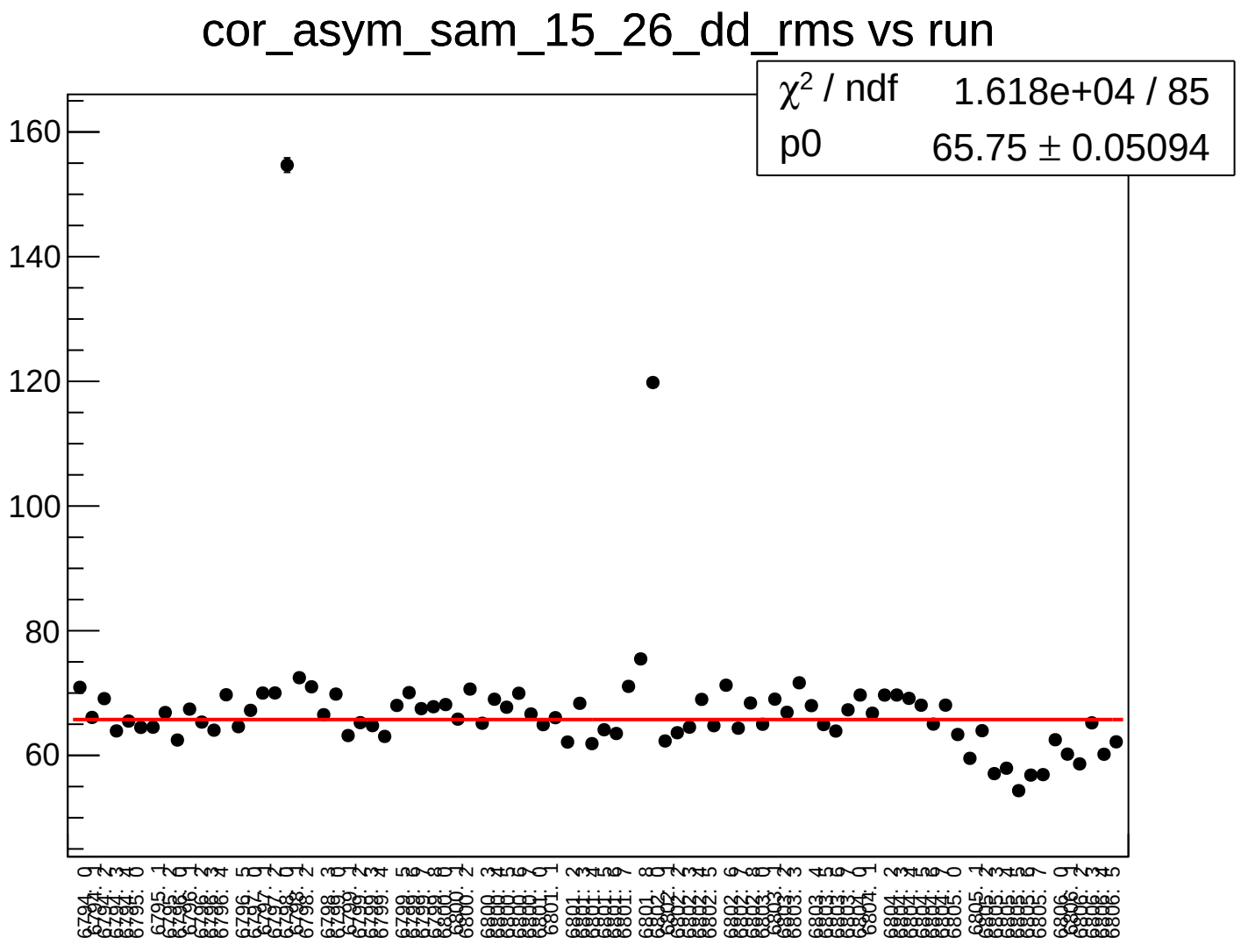

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 69.12 / 85
p0 −351 ± 532.4
pull
Entries 86
Mean −201
Std Dev 0

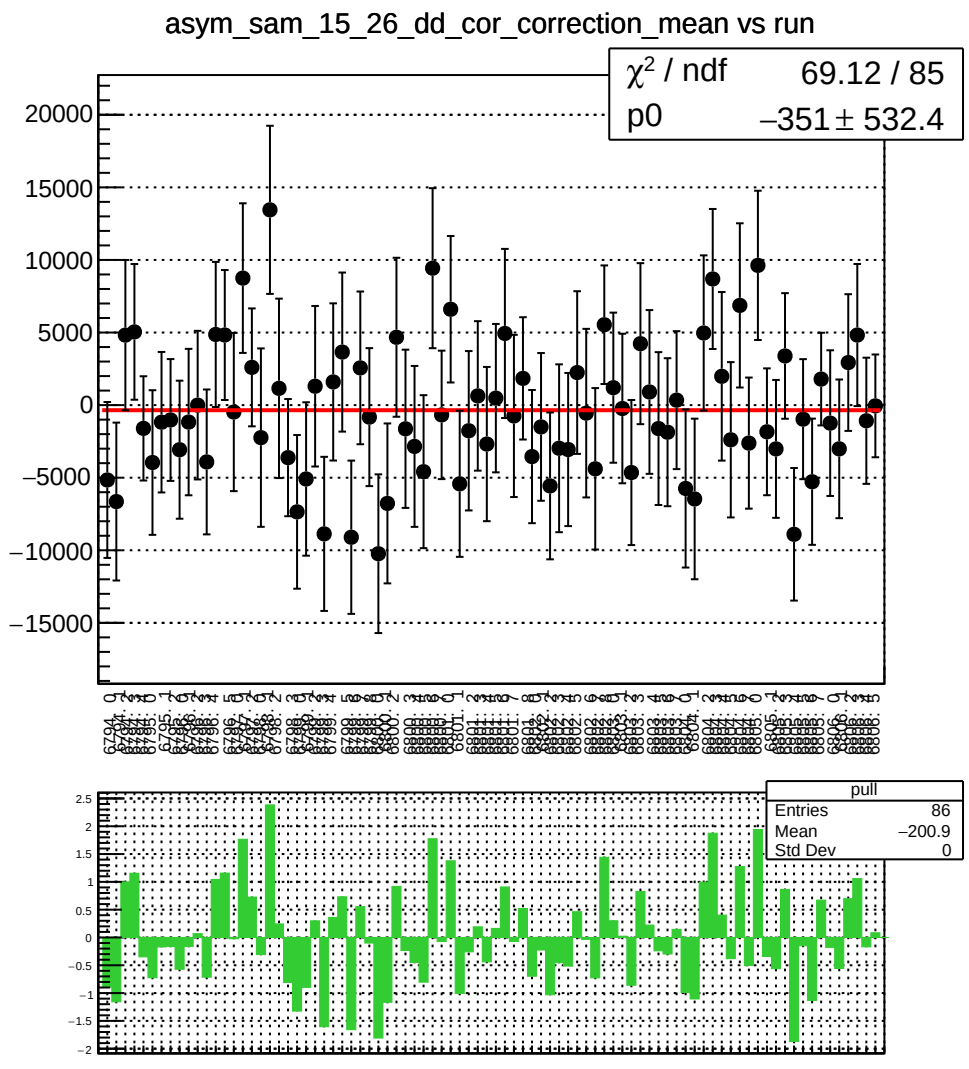

pull1D
Entries 86
Mean −0.003776
Std Dev 0.8965

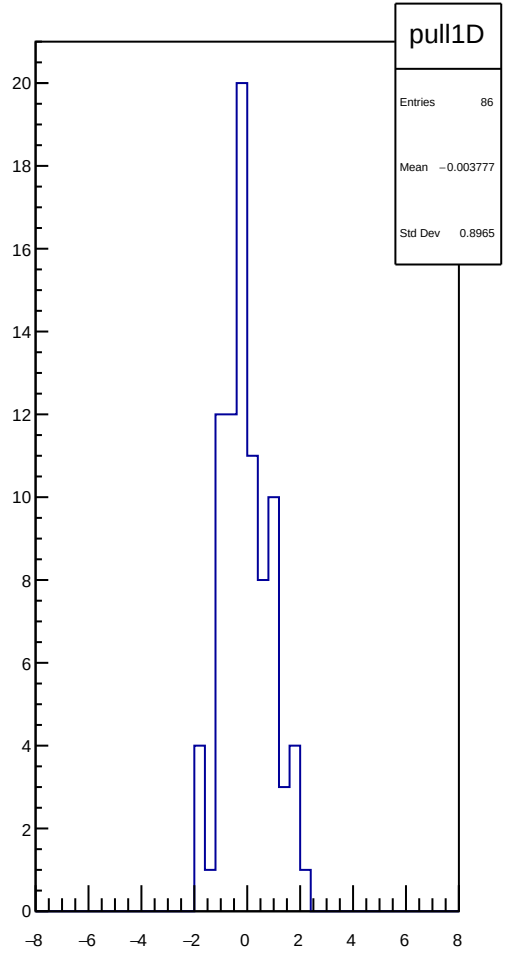

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.149e+04 / 85
p0 486.6 ± 0.3765
600
550
500
450
400

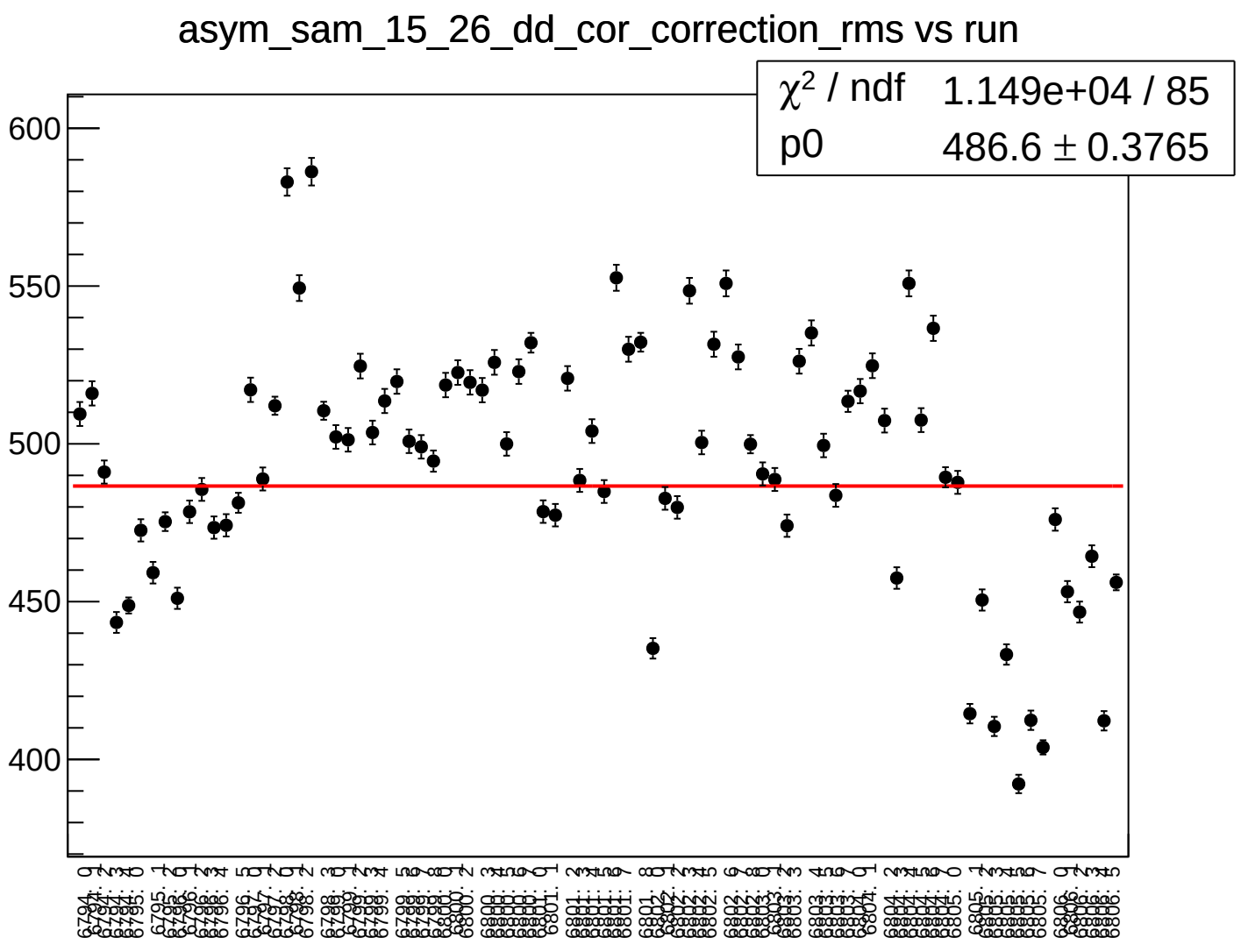

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.55 / 85
p0 44.3 ± 72.04
pull
Entries 86
Mean −186.1
Std Dev 0

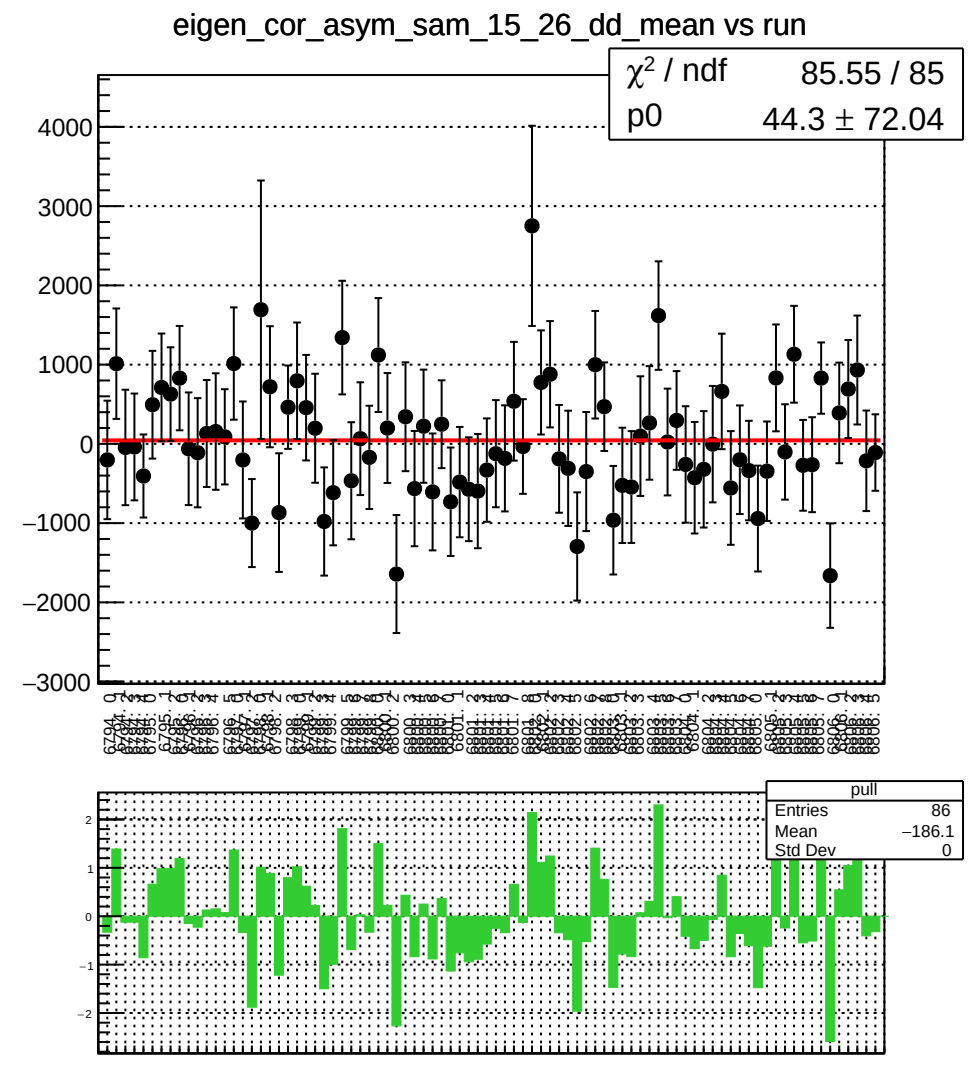

pull1D
Entries 86
Mean 0.006912
Std Dev 0.9974

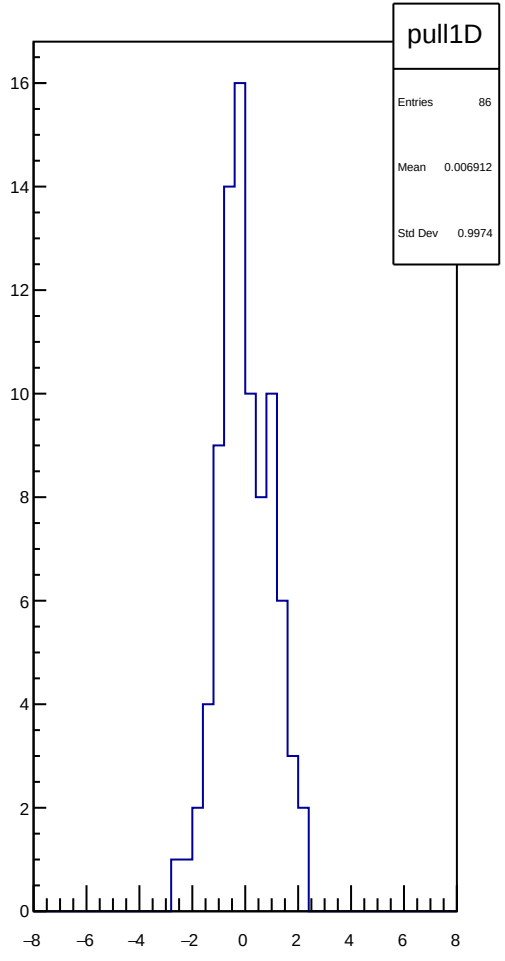

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.618e+04 / 85
p0 65.75 ± 0.05094
160
140
120
100
80
60

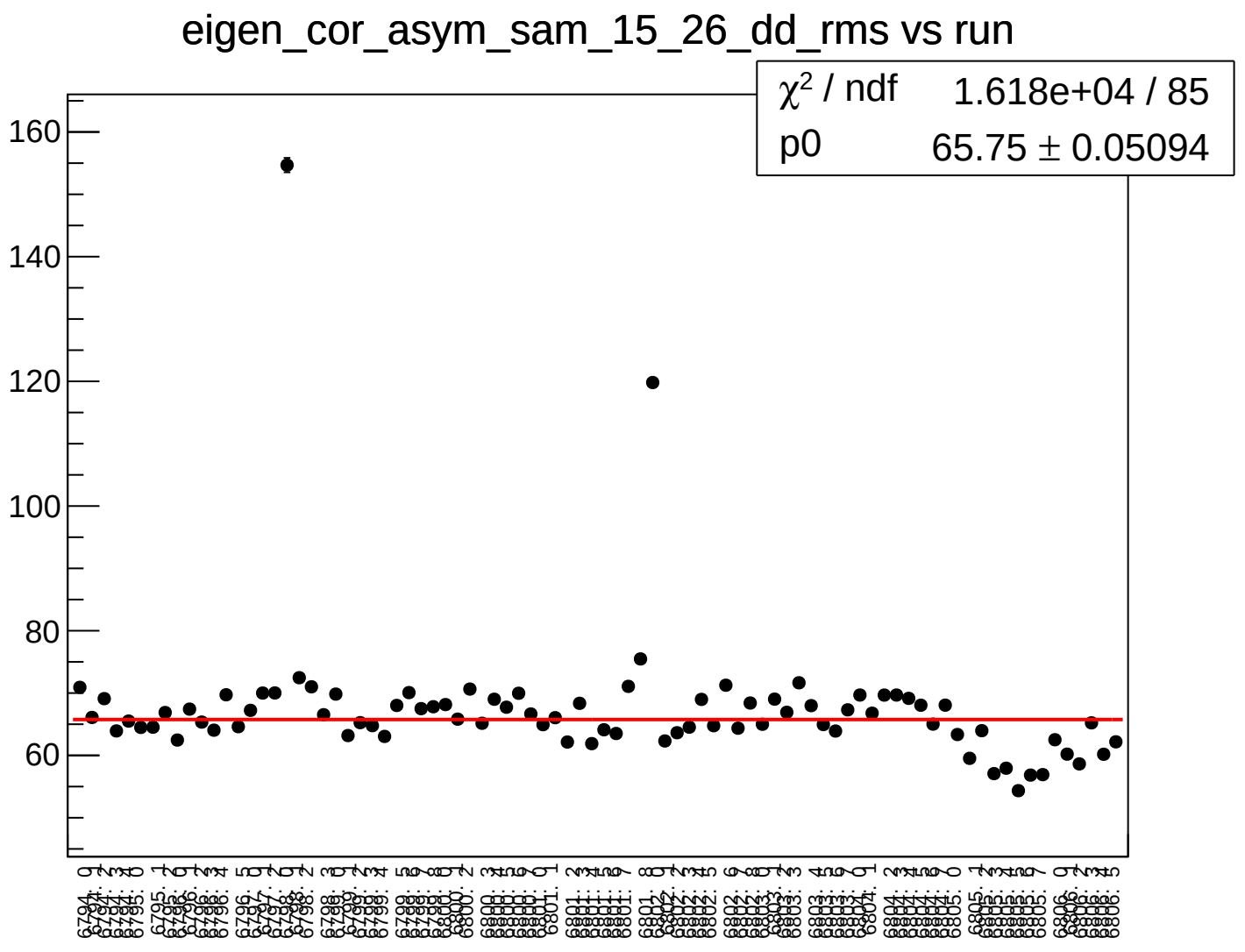

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 69.12 / 85
p0 −351 ± 532.4
pull
Entries 86
Mean −200.9
Std Dev 0

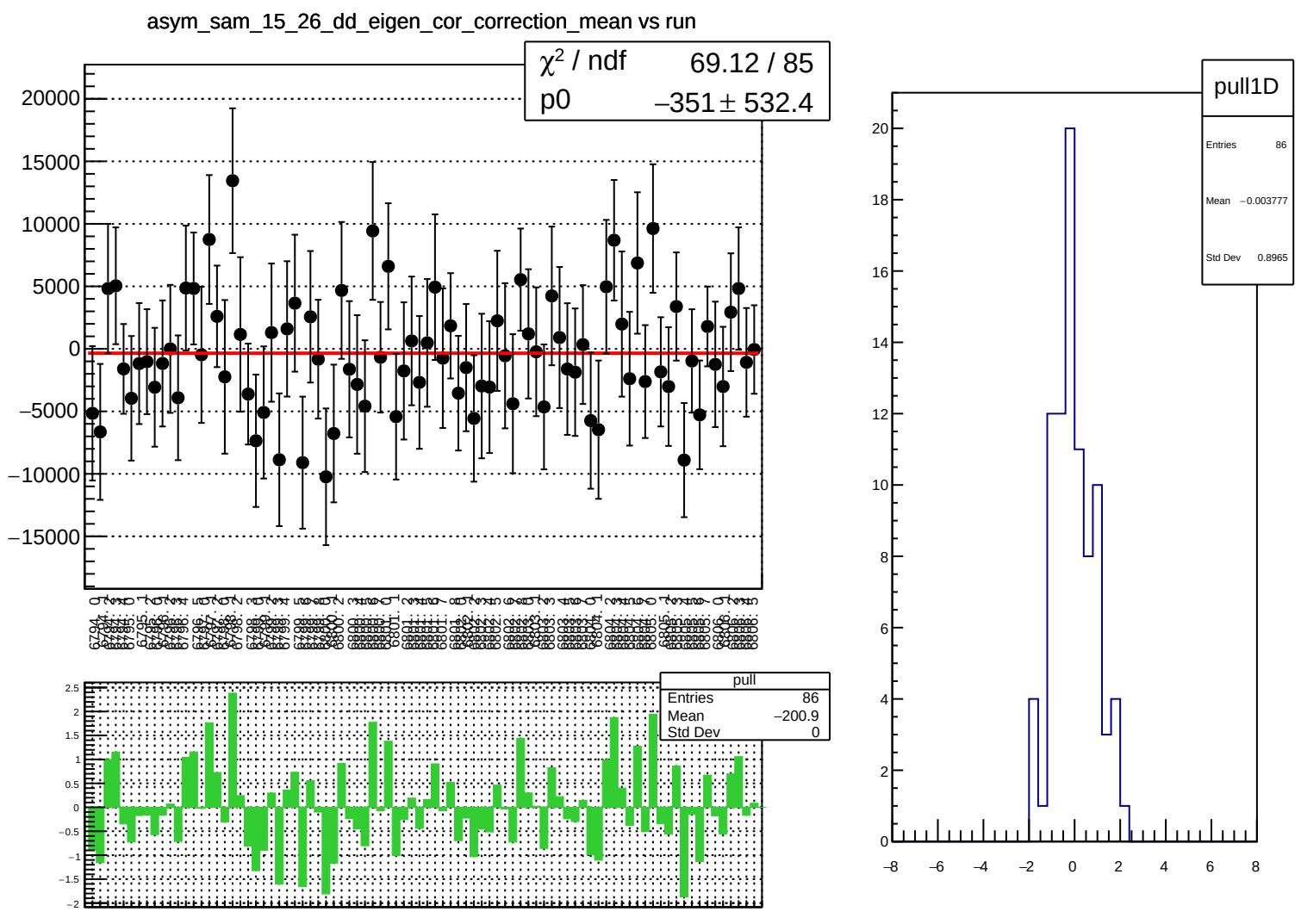

pull1D
Entries 86
Mean −0.003777
Std Dev 0.8965

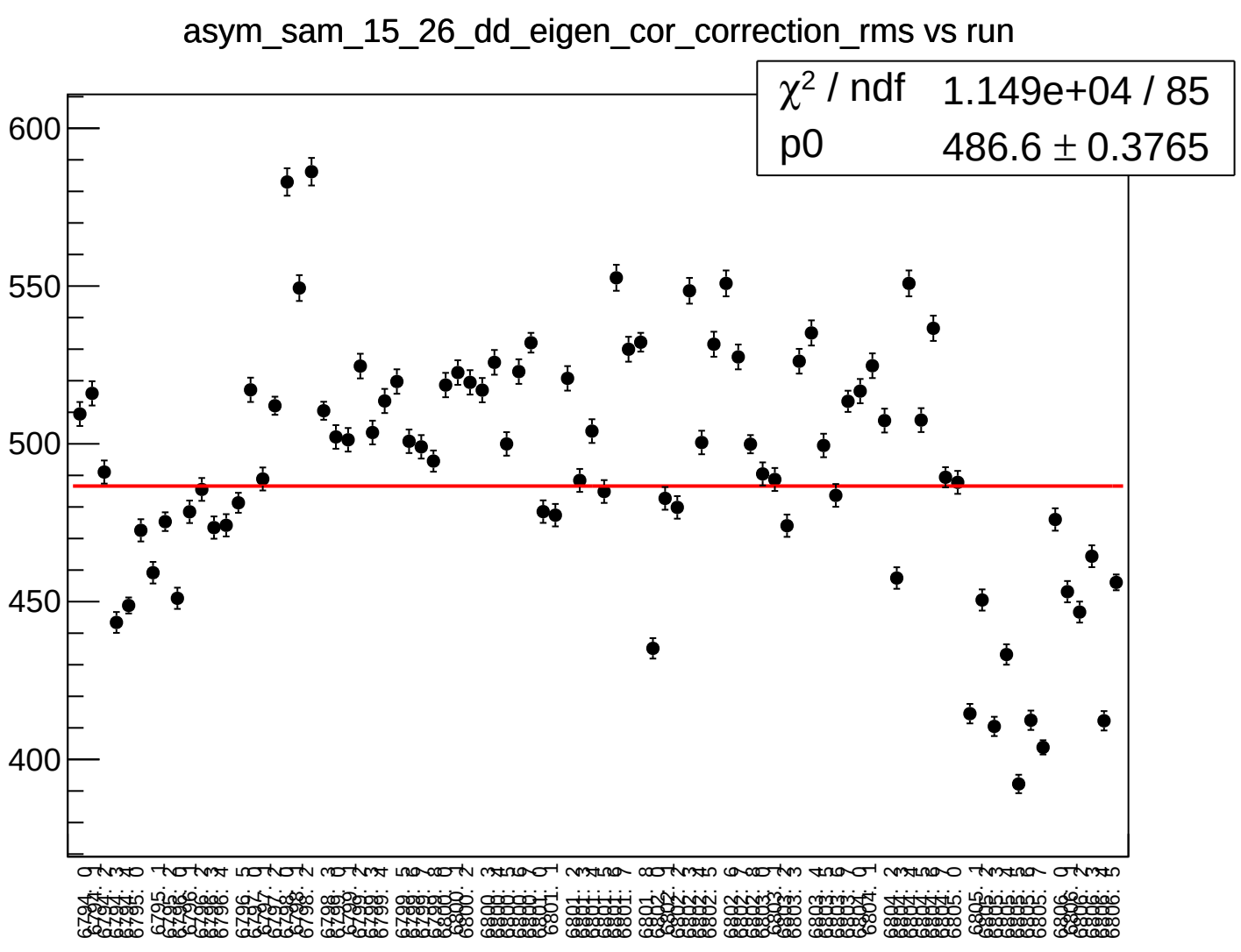

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 85
p0 486.6 ± 0.3765
600
550
500
450
400

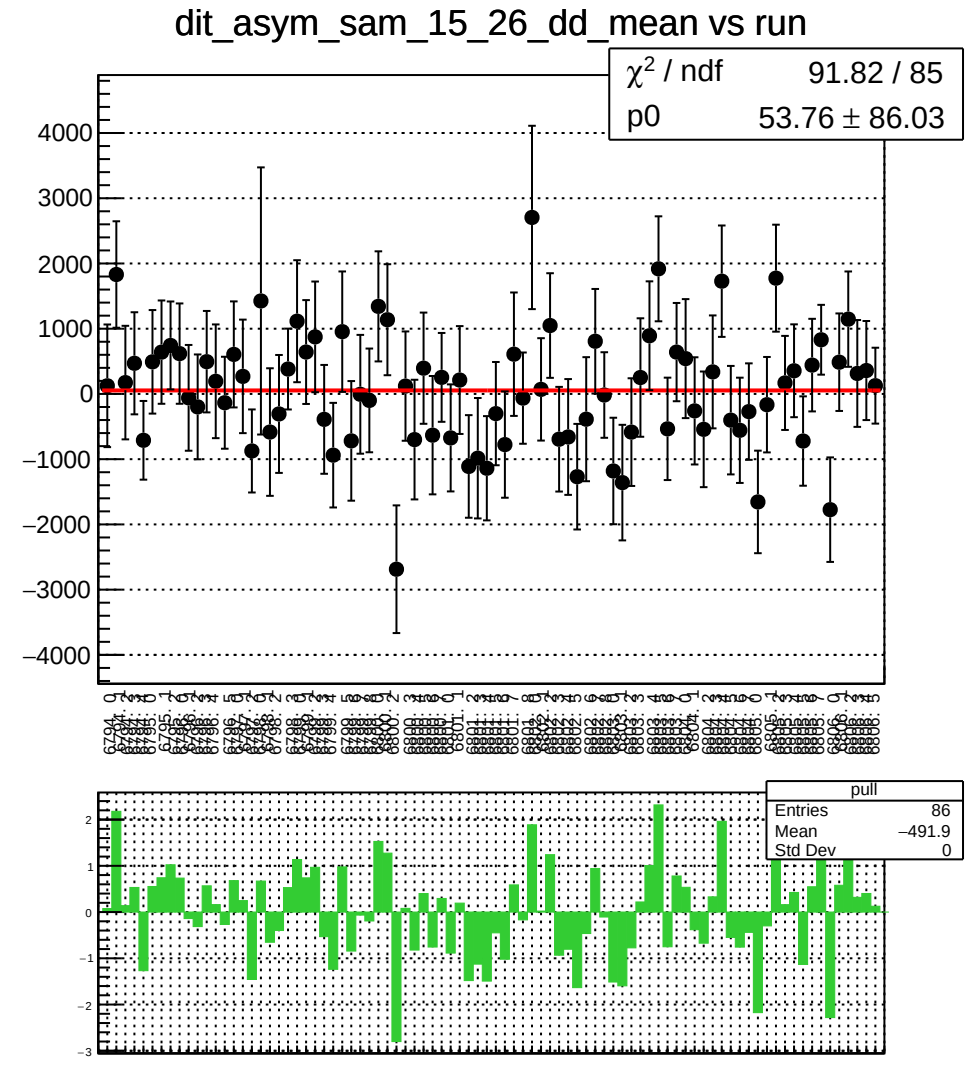

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 85.55 / 85
p0 44.3 ± 72.04
pull
Entries 86
Mean −186.1
Std Dev 0

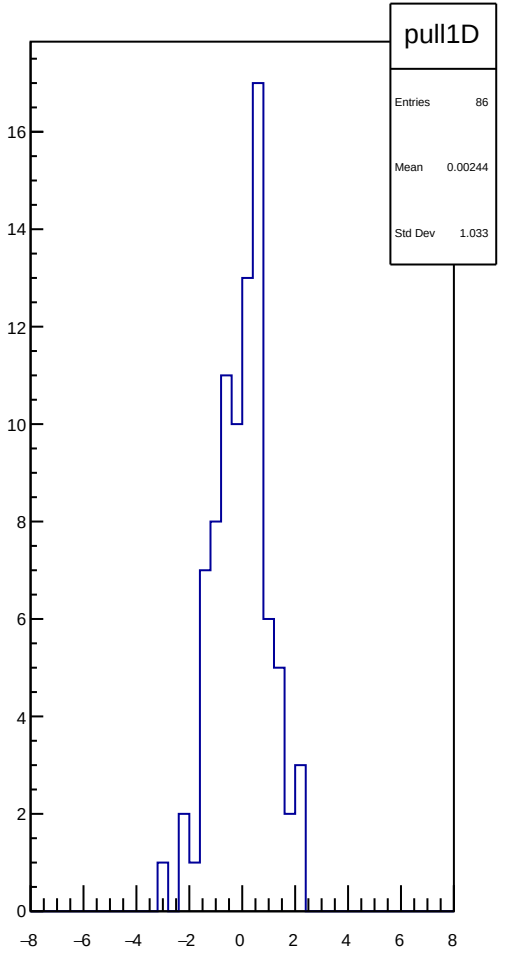

pull1D
Entries 86
Mean 0.006912
Std Dev 0.9974

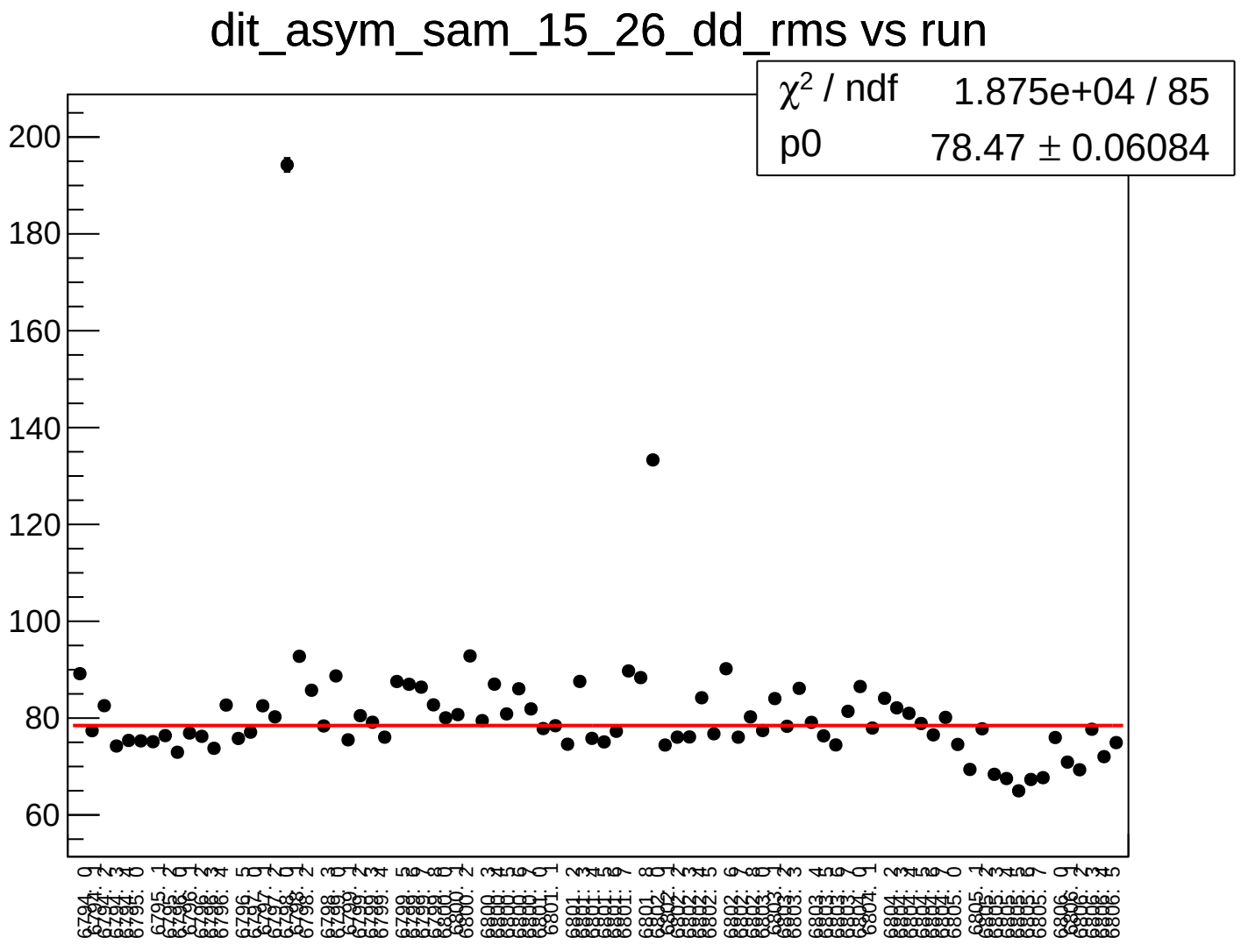

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.618e+04 / 85
p0 65.75 ± 0.05094
160
140
120
100
80
60

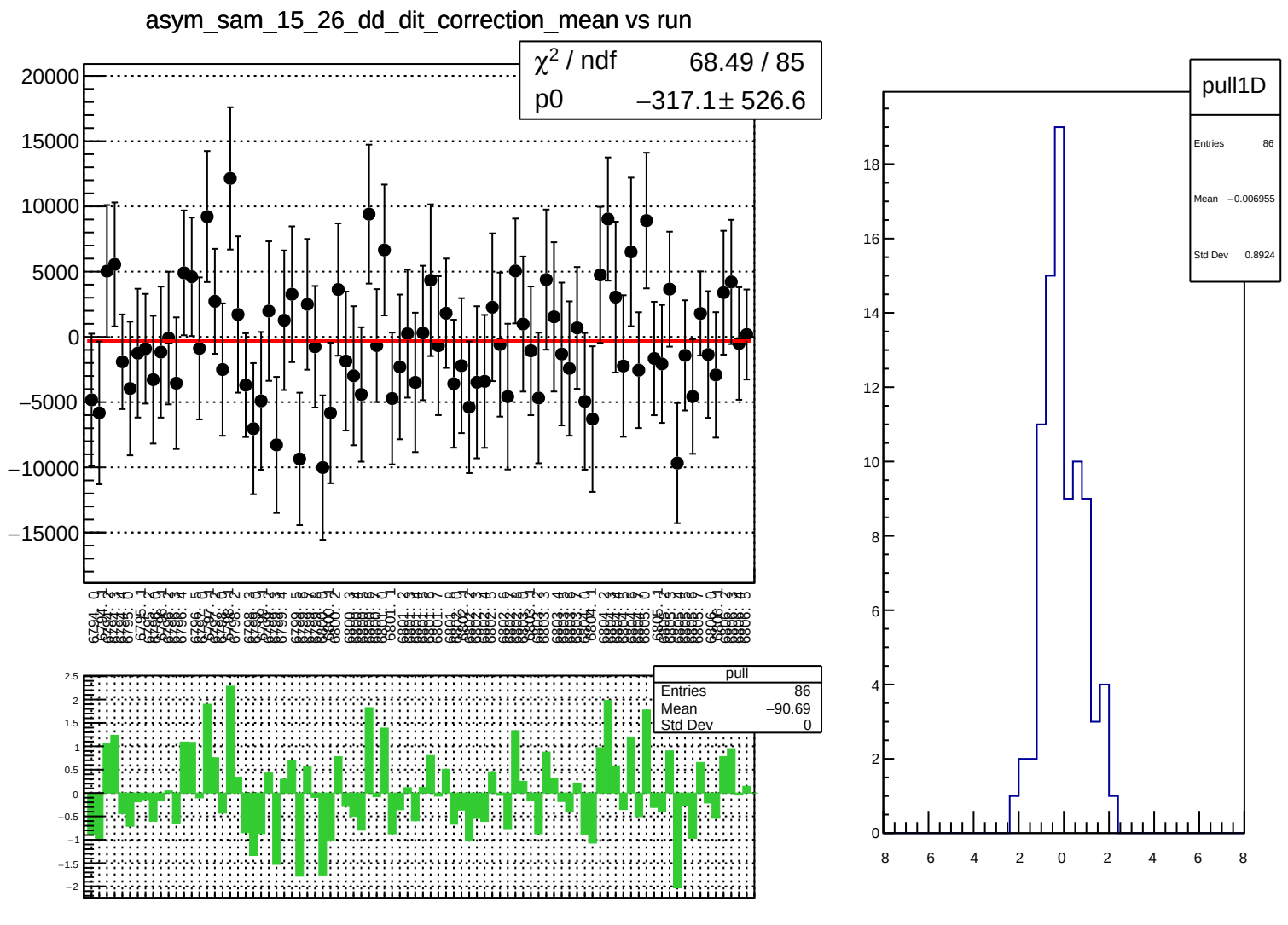

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.12 / 85
p0 −351 ± 532.4
pull
Entries 86
Mean −200.9
Std Dev 0
pull1D
Entries 86
Mean −0.003777
Std Dev 0.8965

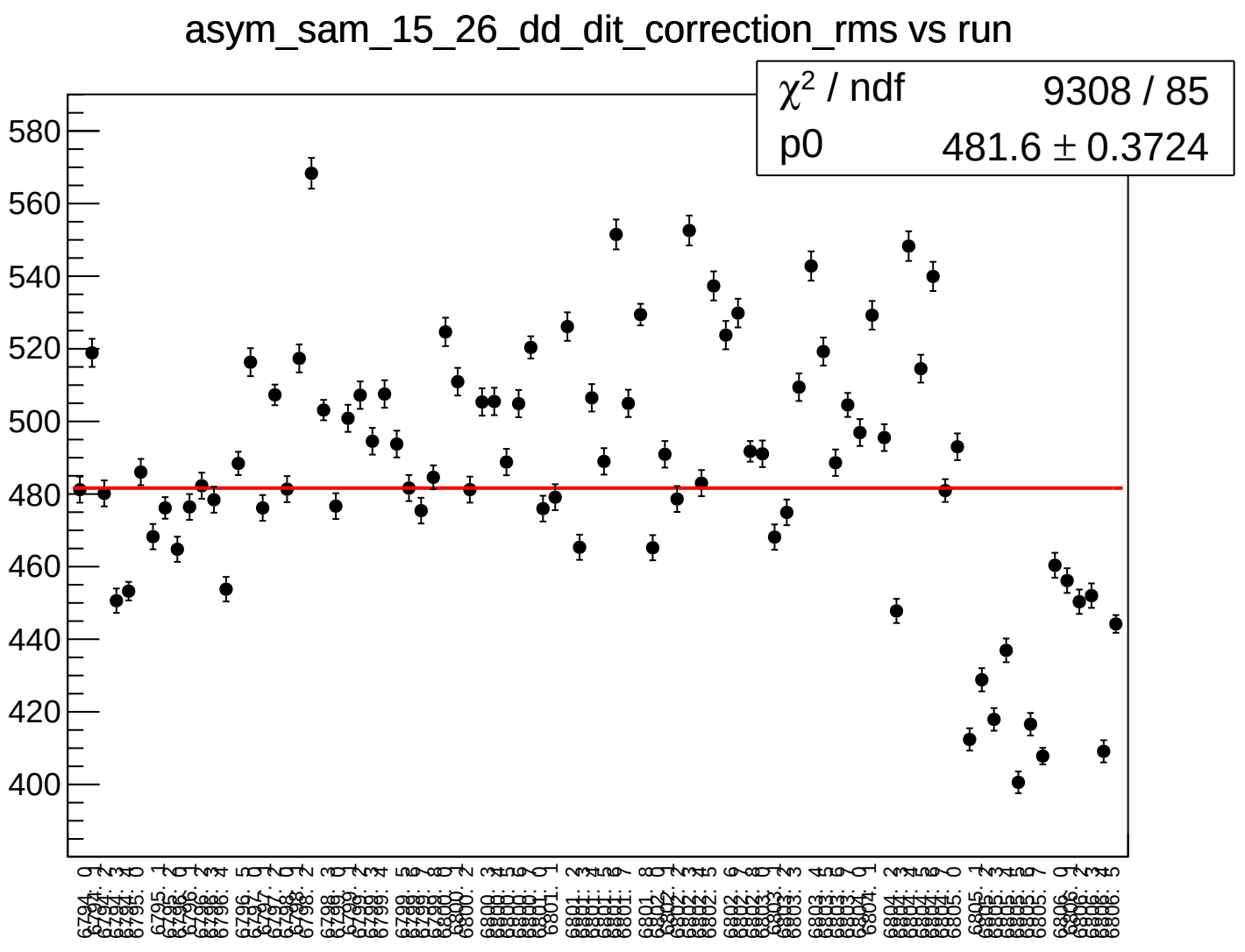

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.149e+04 / 85
p0 486.6 ± 0.3765
600
550
500
450
400

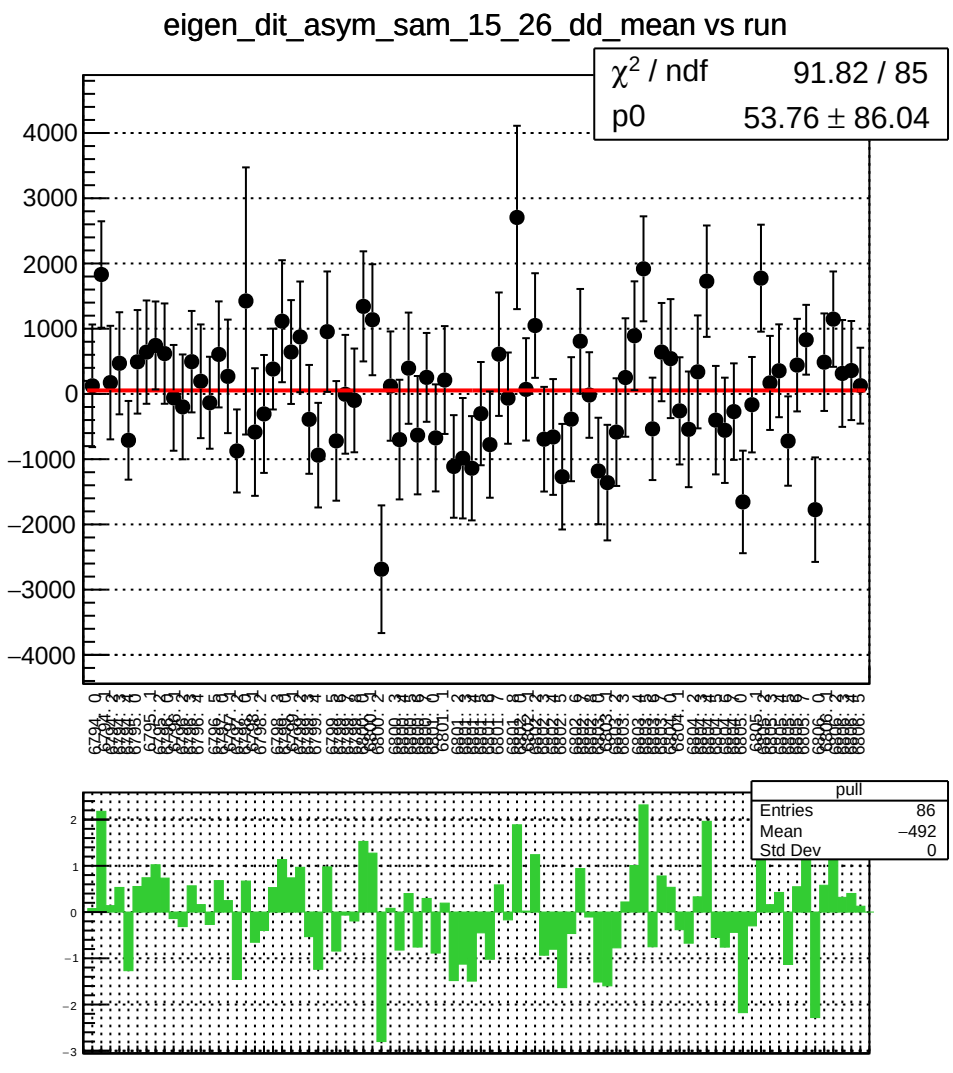

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 91.82 / 85
p0 53.76 ± 86.03
pull
Entries 86
Mean −491.9
Std Dev 0

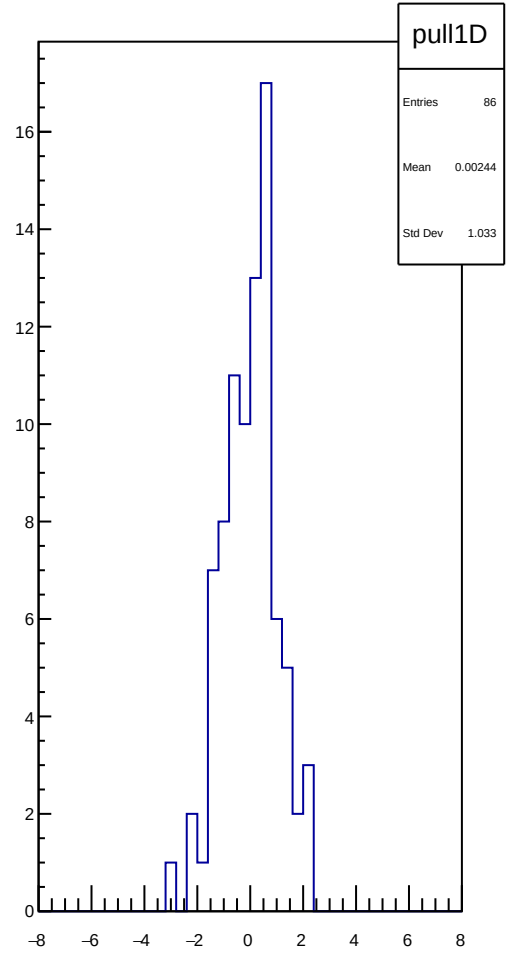

pull1D
Entries 86
Mean 0.00244
Std Dev 1.033

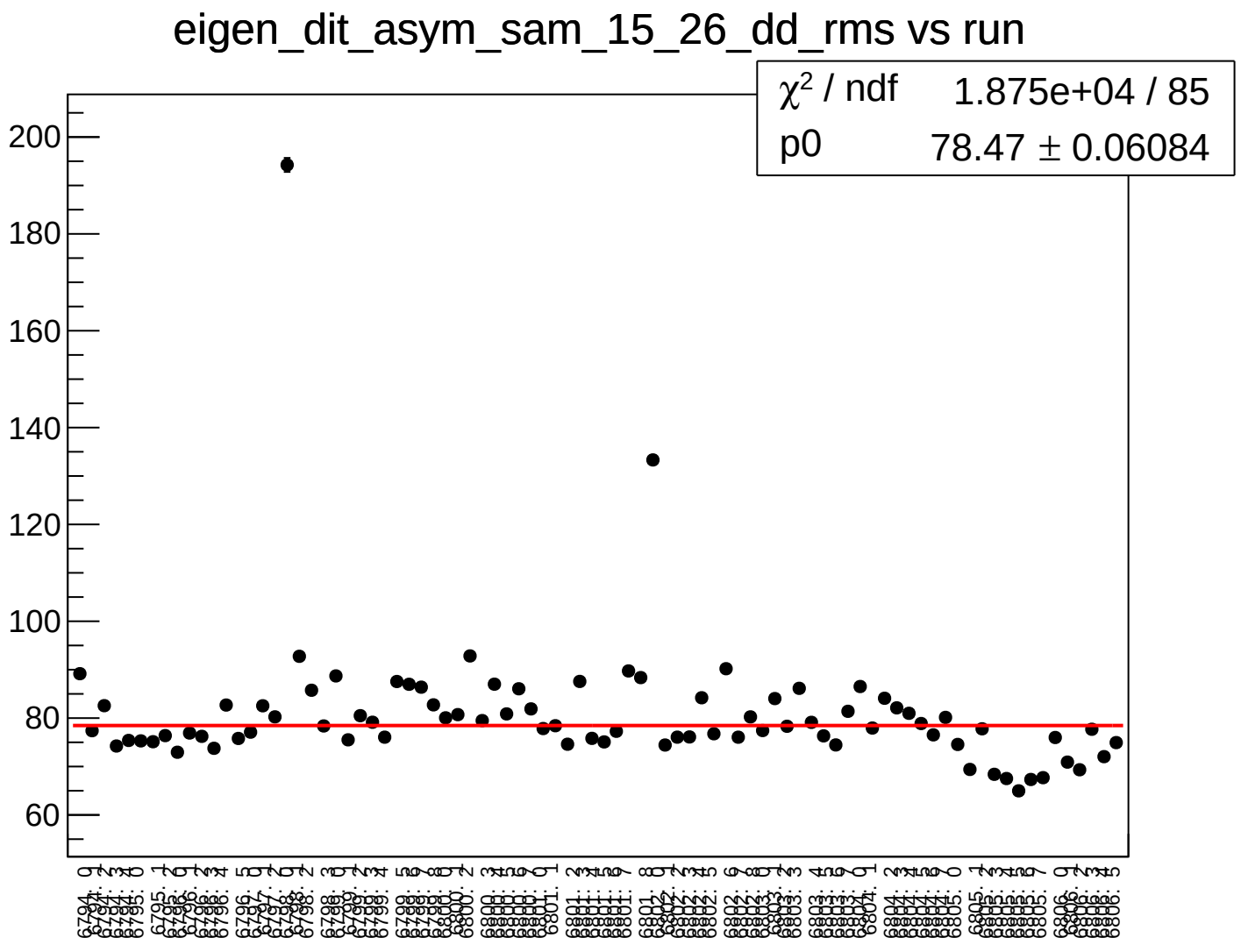

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.875e+04 / 85
p0 78.47 ± 0.06084
200
180
160
140
120
100
80
60

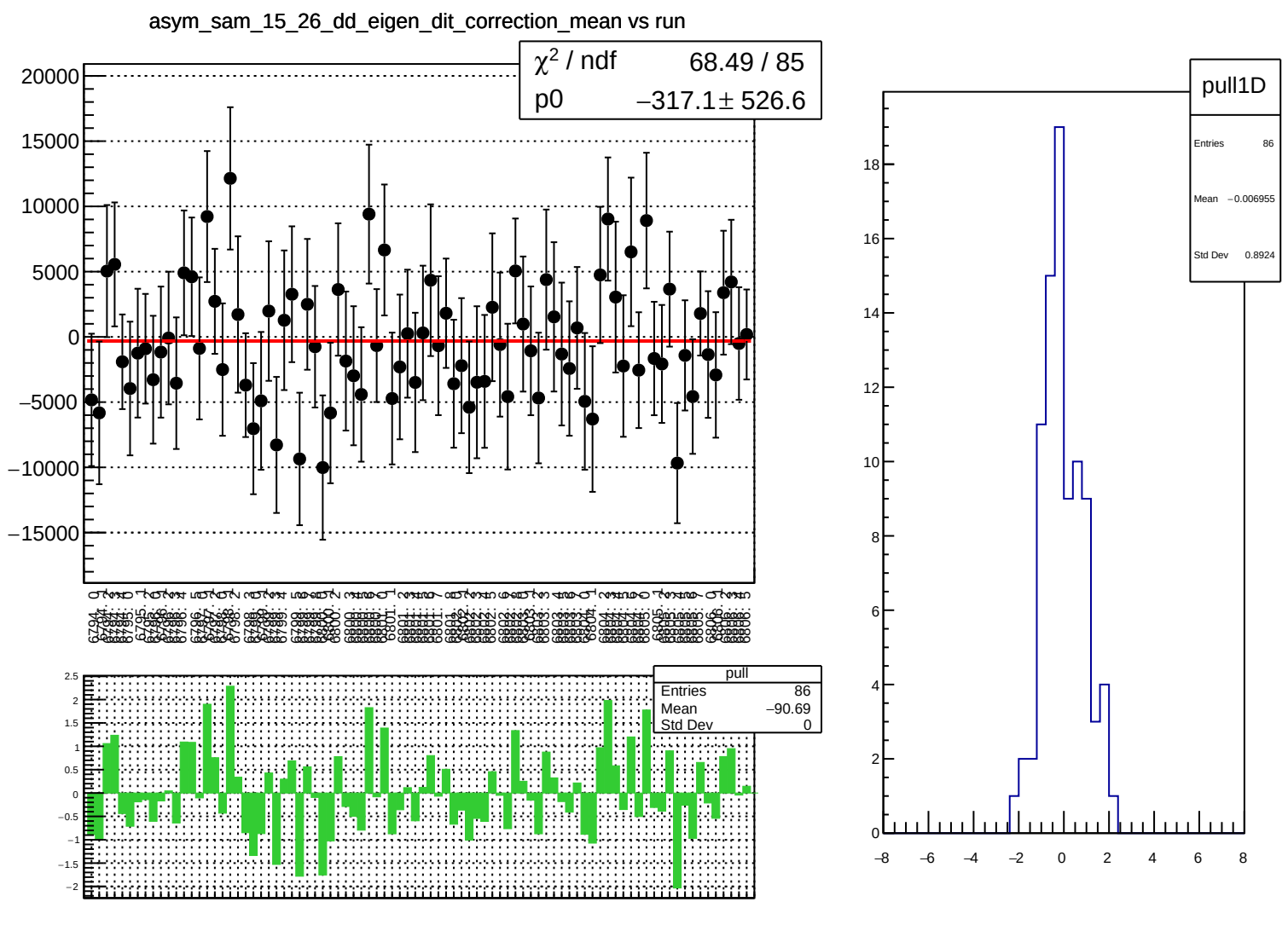

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 68.49 / 85
p0 −317.1 ± 526.6
pull
Entries 86
Mean −90.69
Std Dev 0
pull1D
Entries 86
Mean −0.006955
Std Dev 0.8924

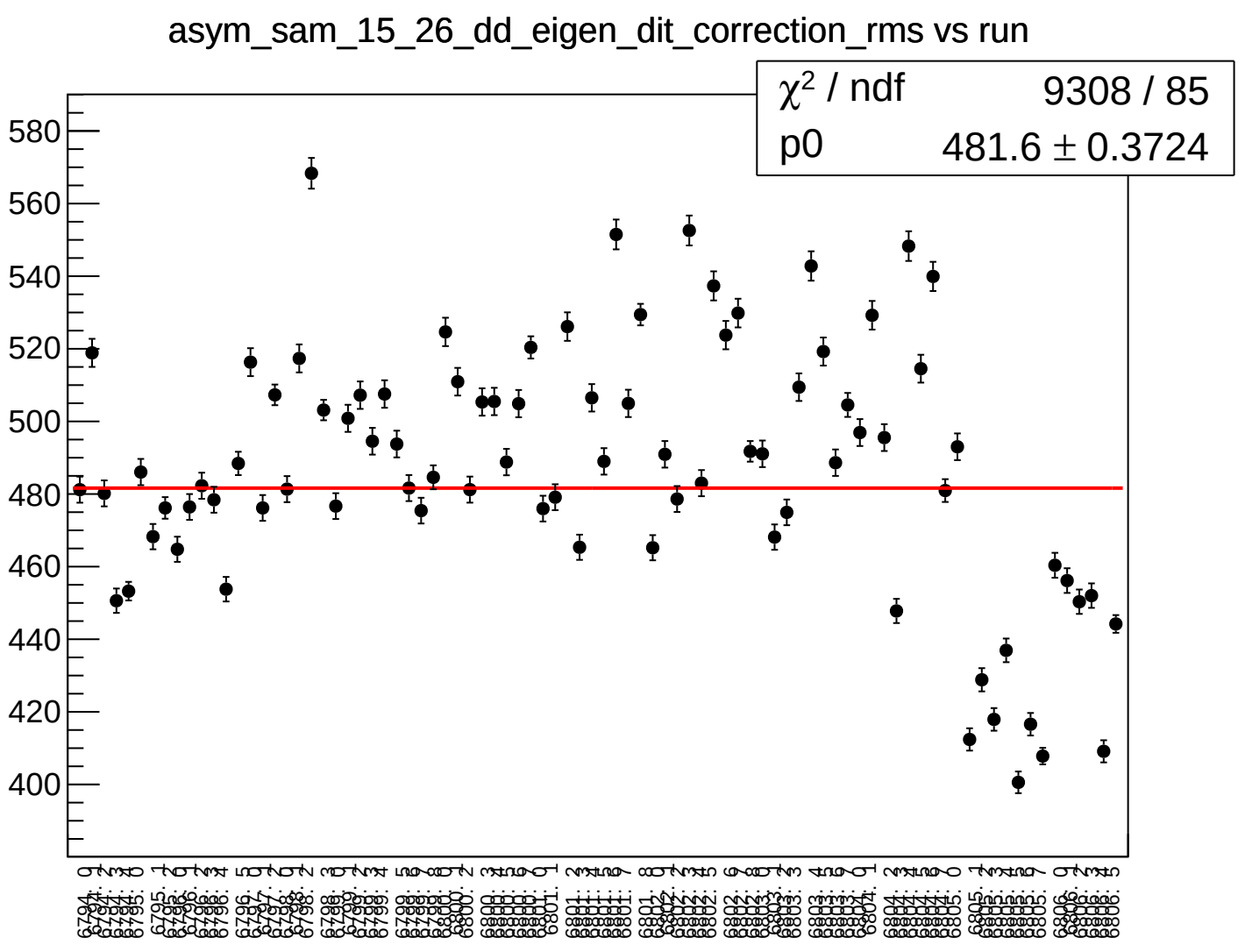

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 9308 / 85
p0 481.6 ± 0.3724
580
560
540
520
500
480
460
440
420
400

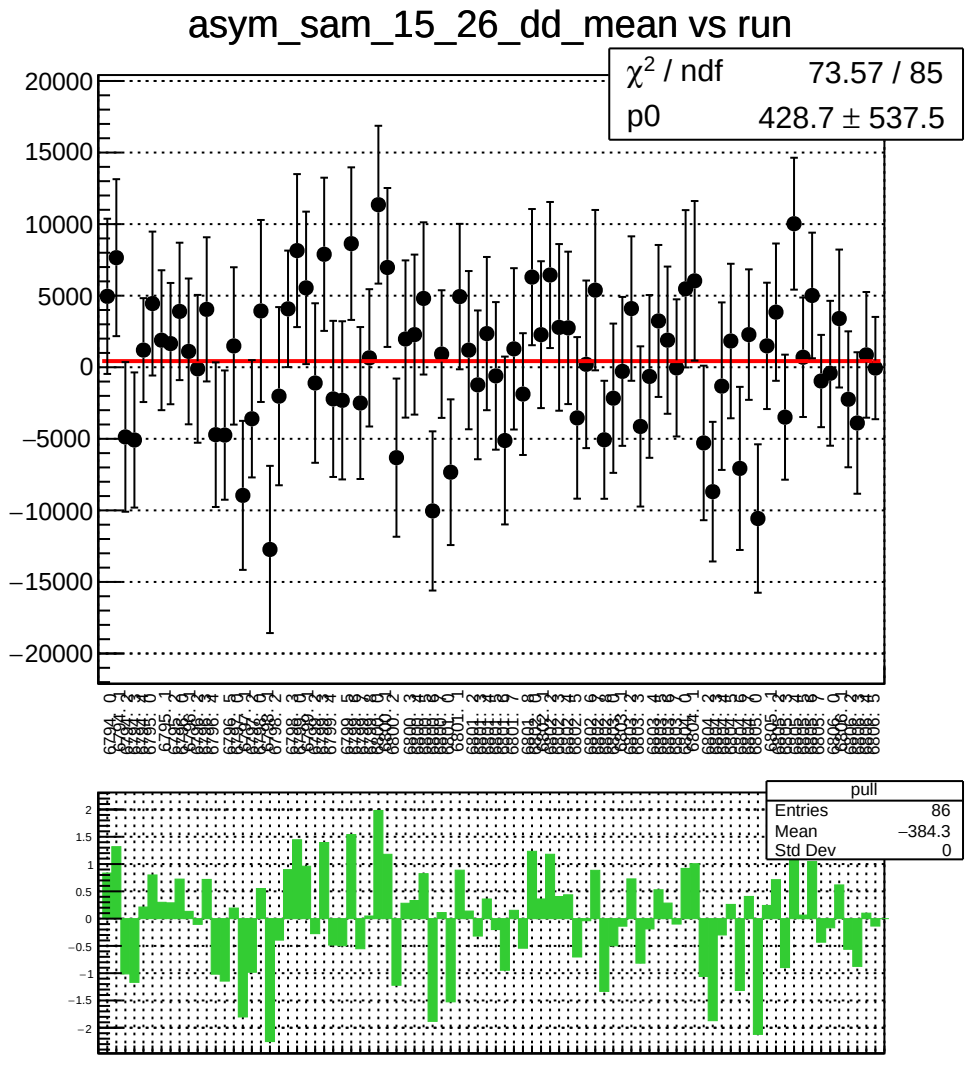

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 91.82 / 85
p0 53.76 ± 86.04
pull
Entries 86
Mean −492
Std Dev 0

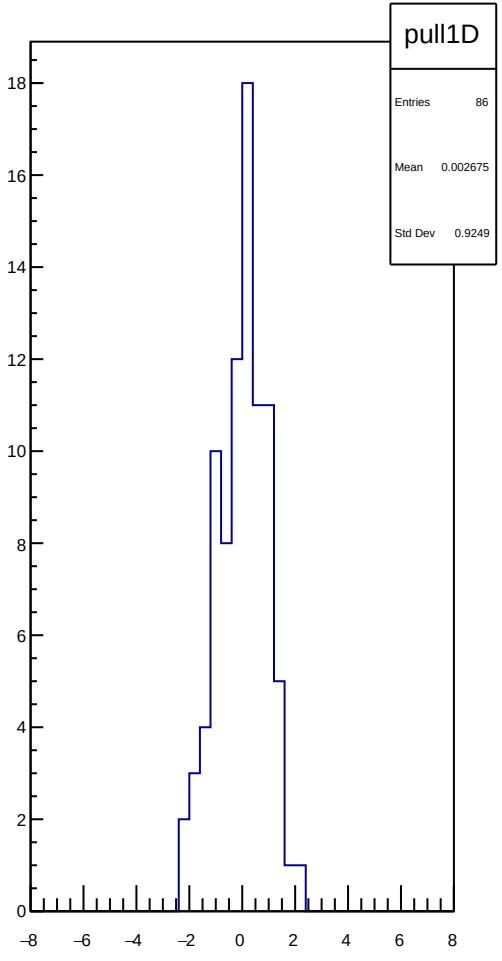

pull1D
Entries 86
Mean 0.00244
Std Dev 1.033

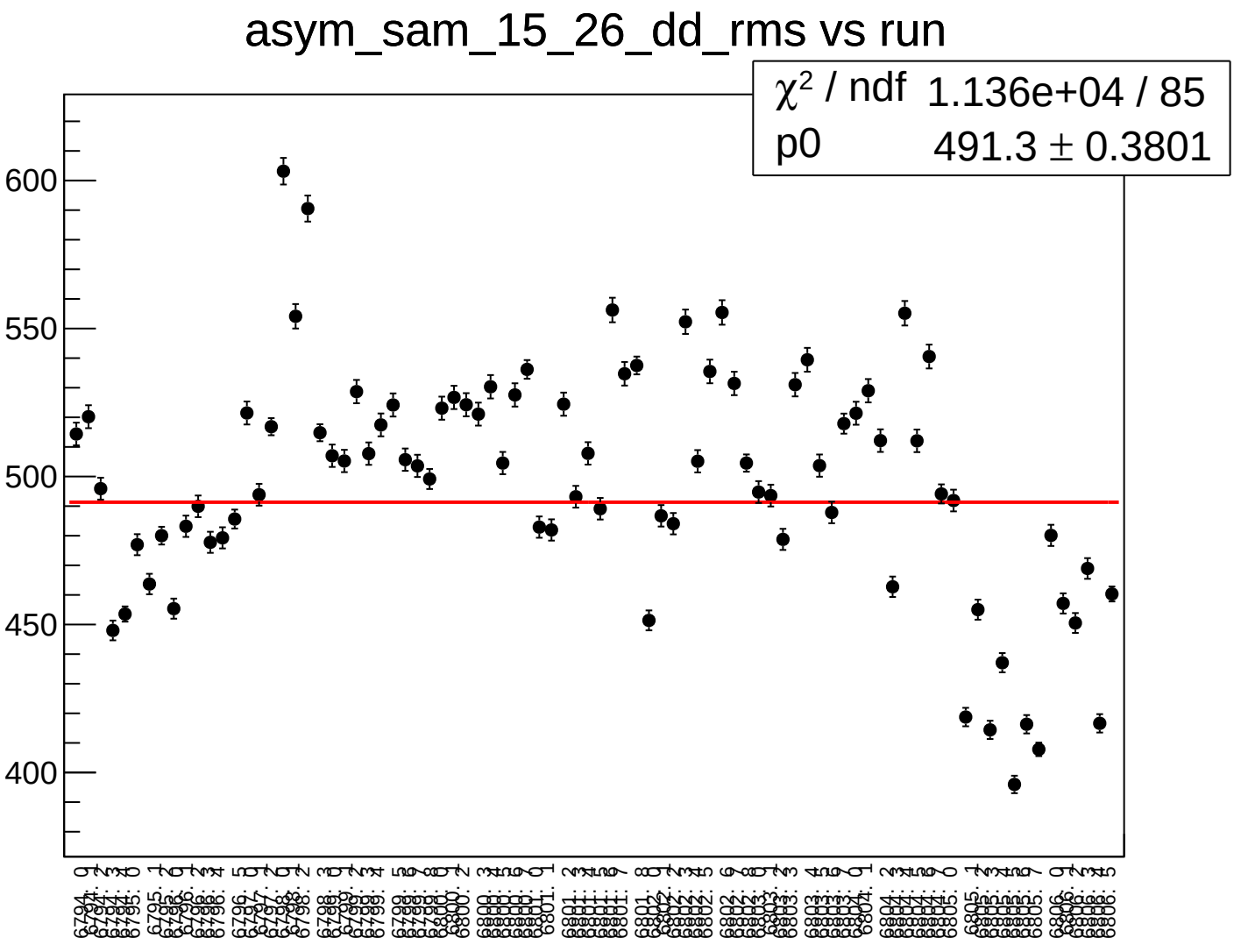

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 1.875e+04 / 85
p0 78.47 ± 0.06084
200
180
160
140
120
100
80
60

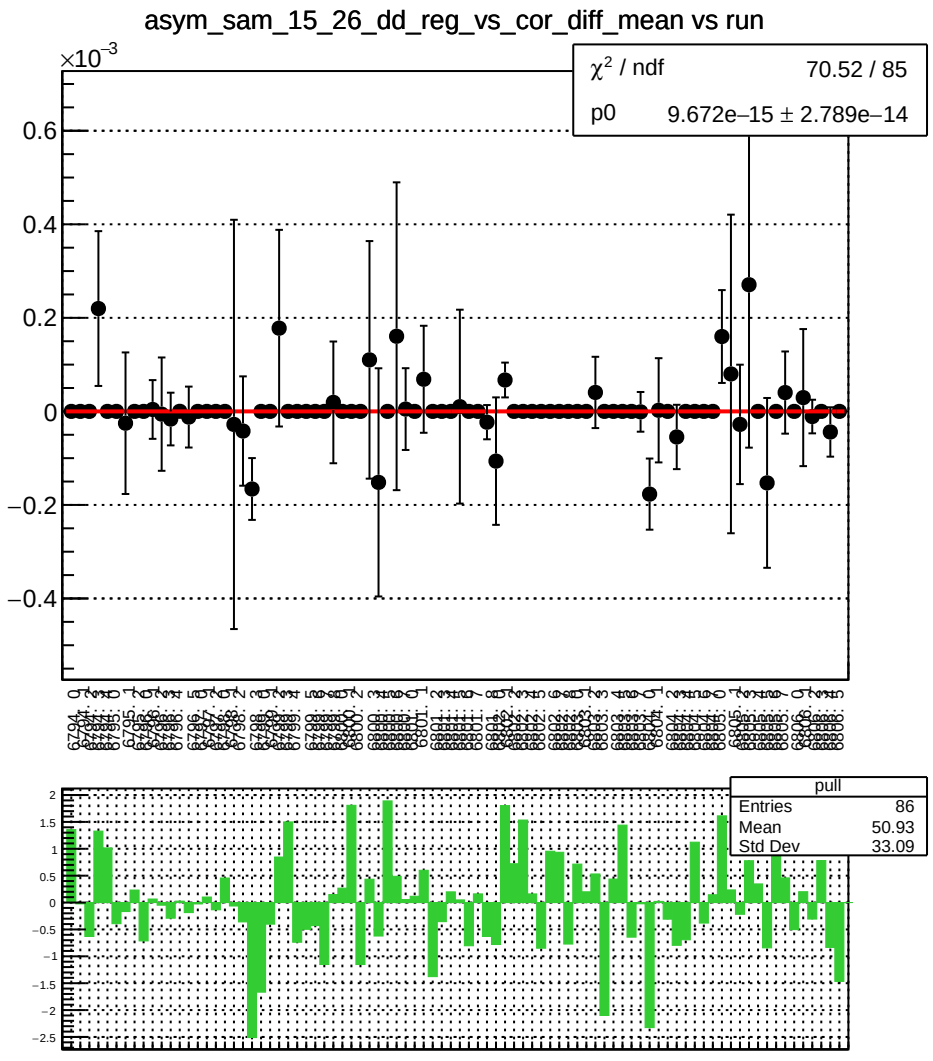

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.49 / 85
p0 −317.1 ± 526.6
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −90.69
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.006955
Std Dev 0.8924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

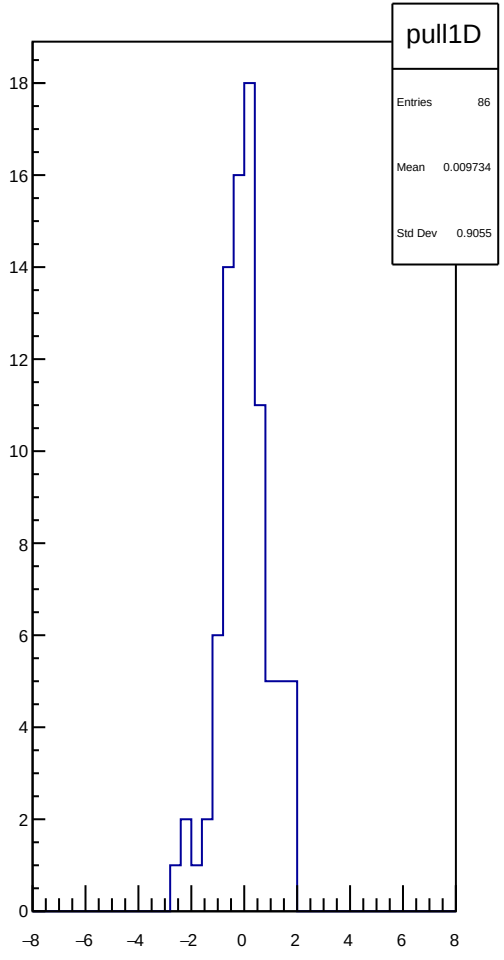

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 9308 / 85
p0 481.6 ± 0.3724
580
560
540
520
500
480
460
440
420
400

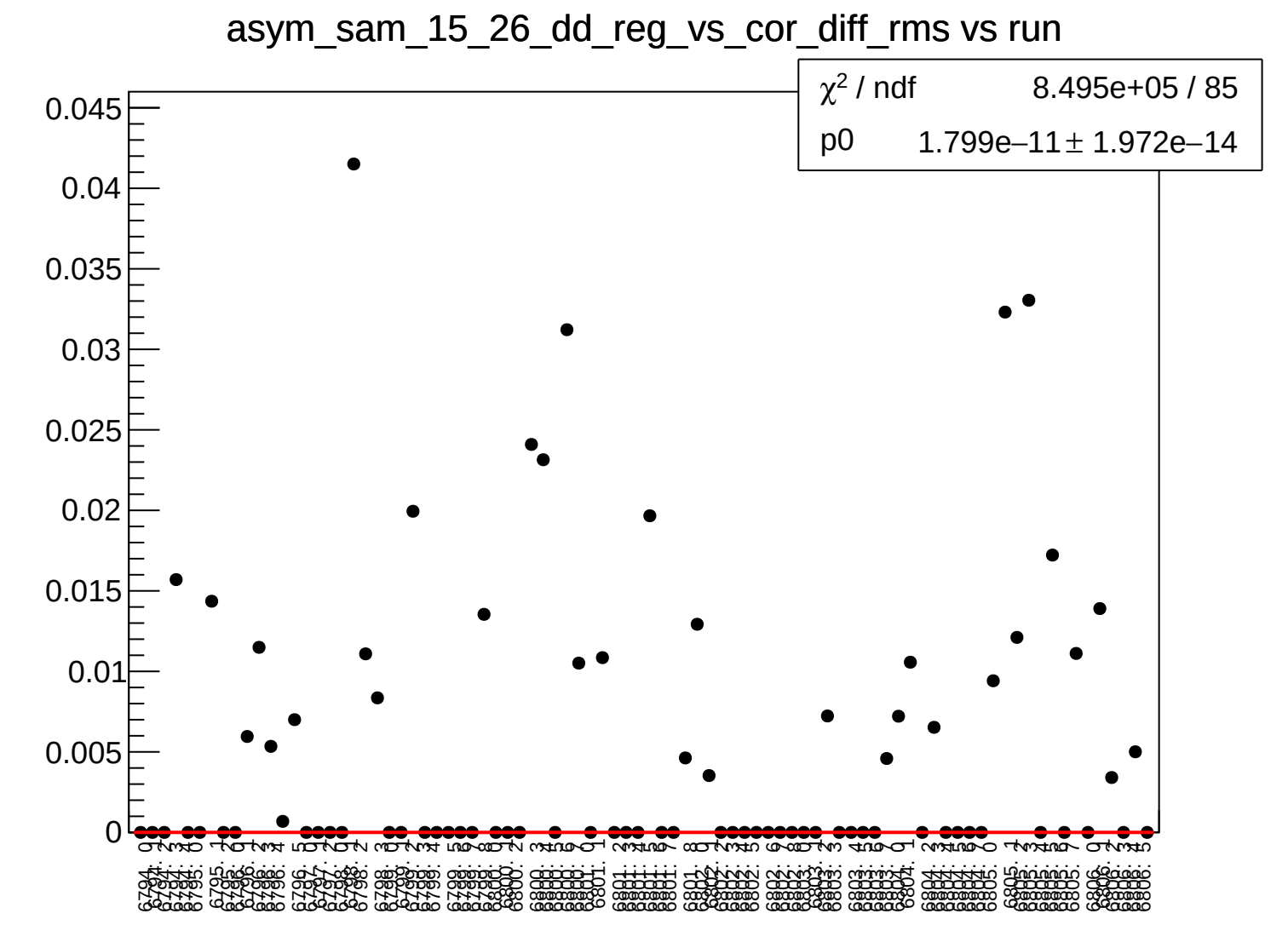

asym_sam_15_26_dd_mean vs run
χ² / ndf 73.57 / 85
p0 428.7 ± 537.5
pull
Entries 86
Mean −384.3
Std Dev 0

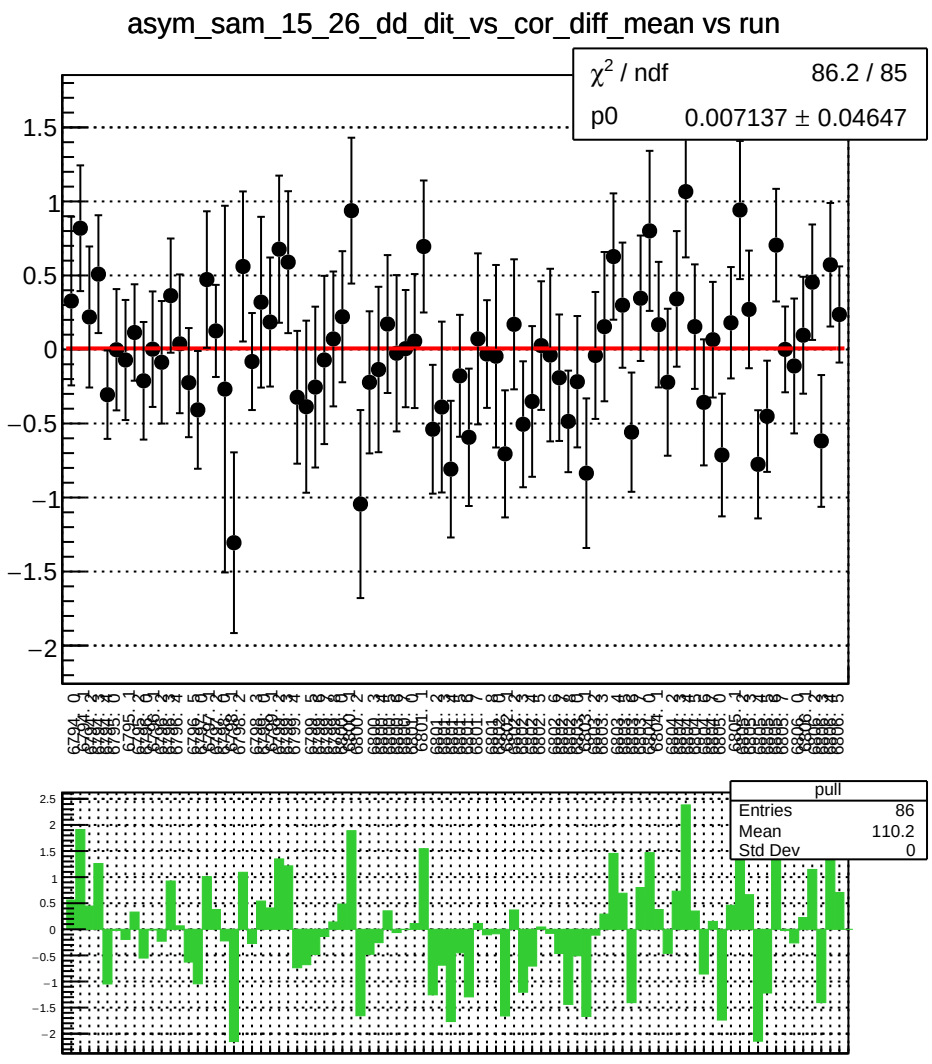

pull1D
Entries 86
Mean 0.002675
Std Dev 0.9249

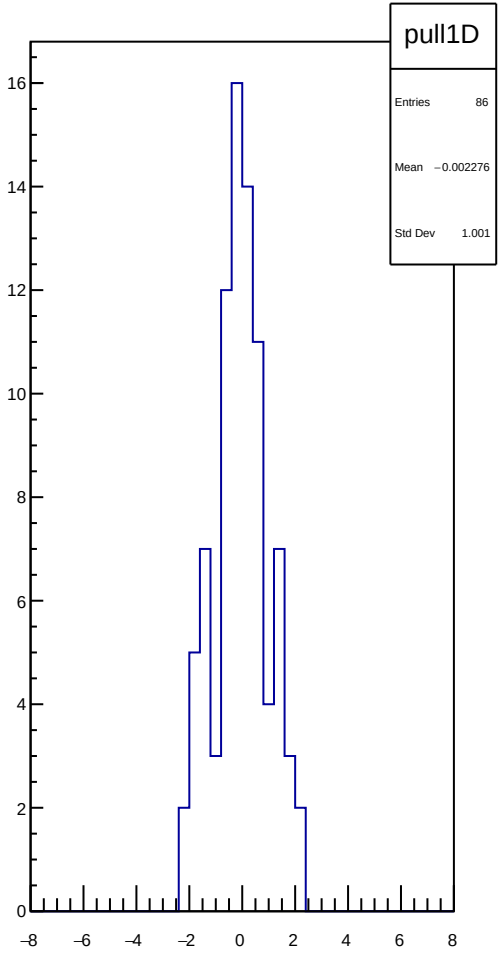

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.136e+04 / 85
p0 491.3 ± 0.3801
600
550
500
450
400

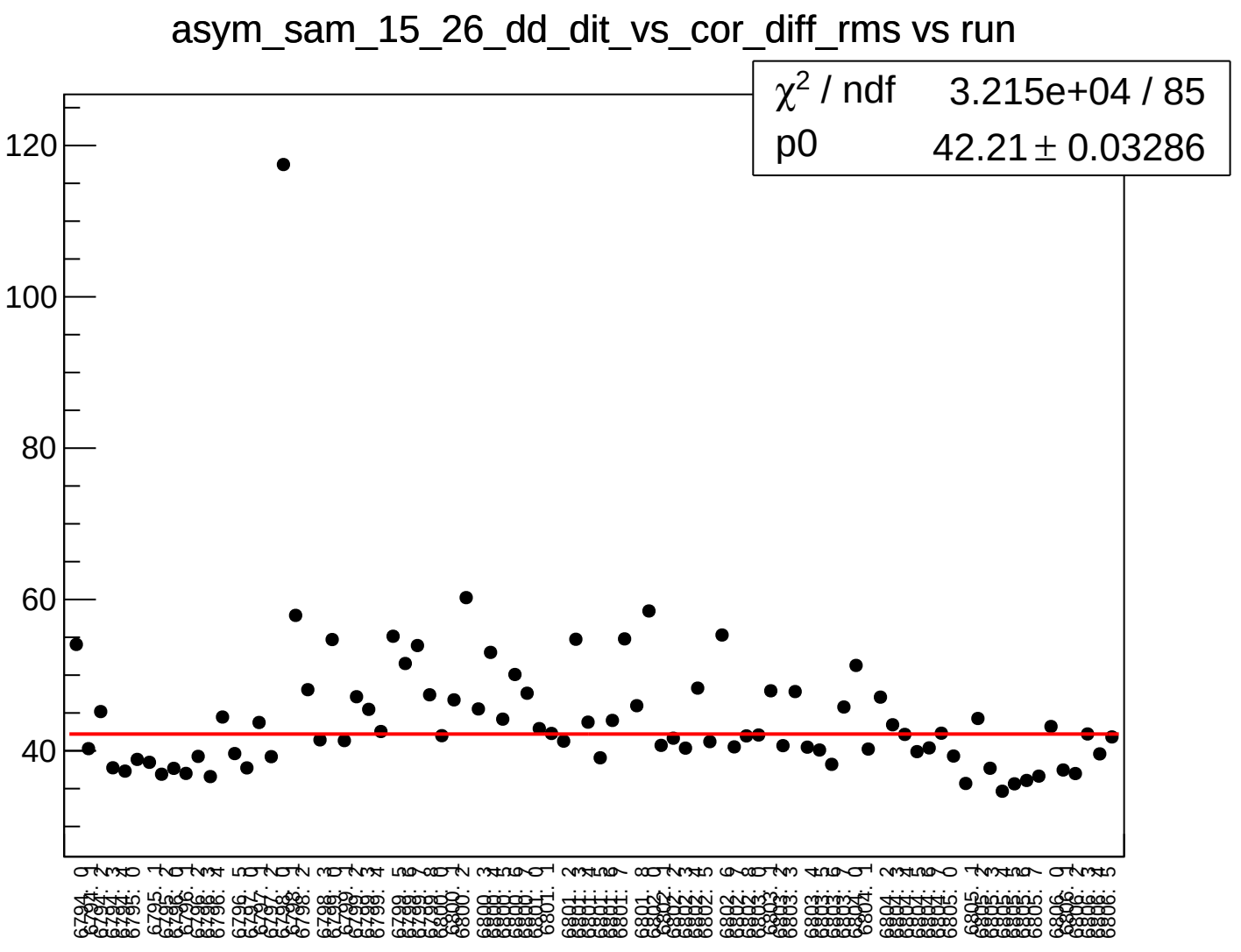

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 70.52 / 85
p0 9.672e−15 ± 2.789e−14
pull
Entries 86
Mean 50.93
Std Dev 33.09

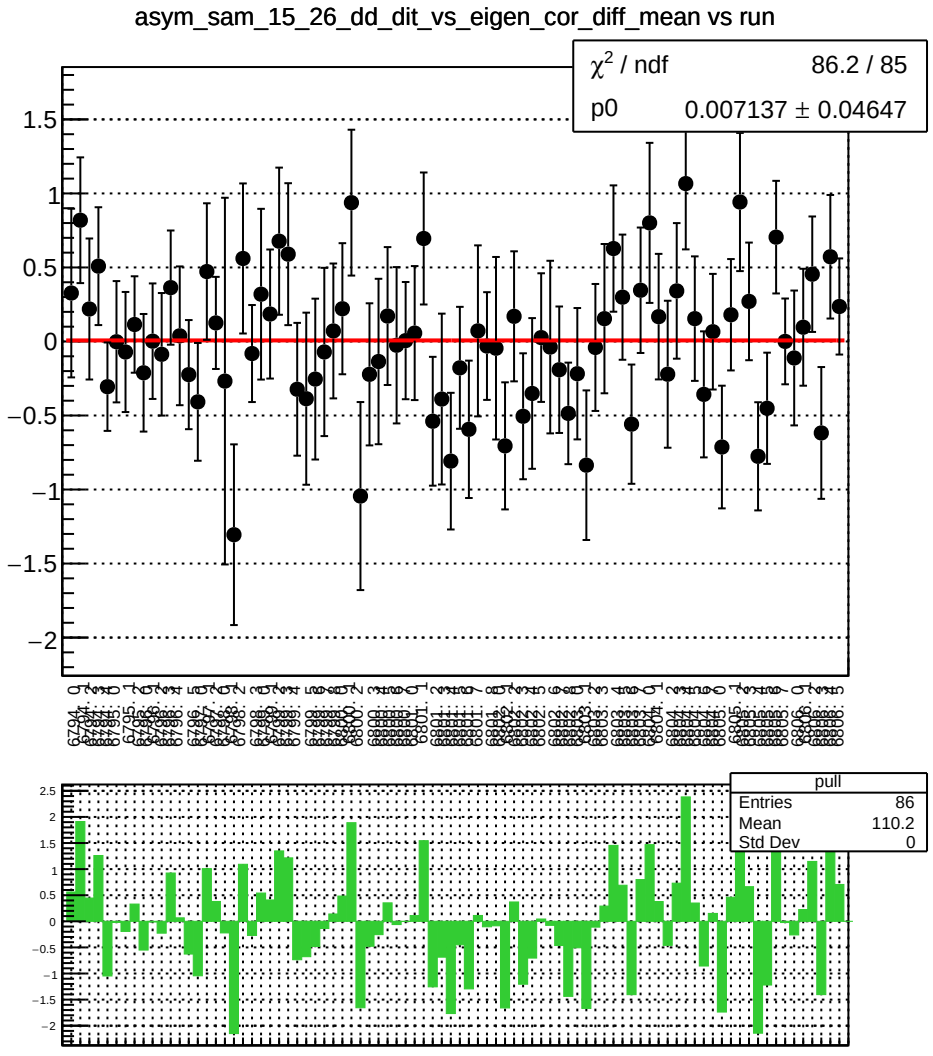

pull1D
Entries 86
Mean 0.009734
Std Dev 0.9055

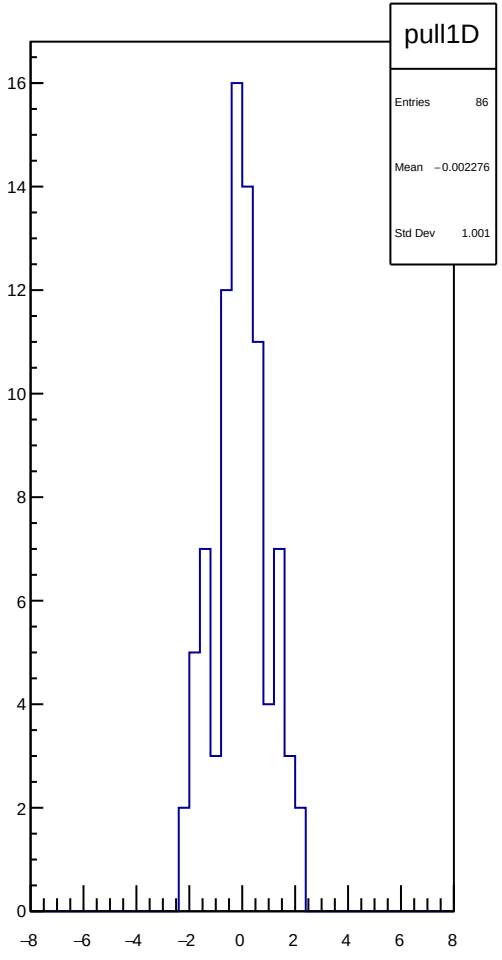

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.495e+05 / 85
p0 1.799e−11 ± 1.972e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

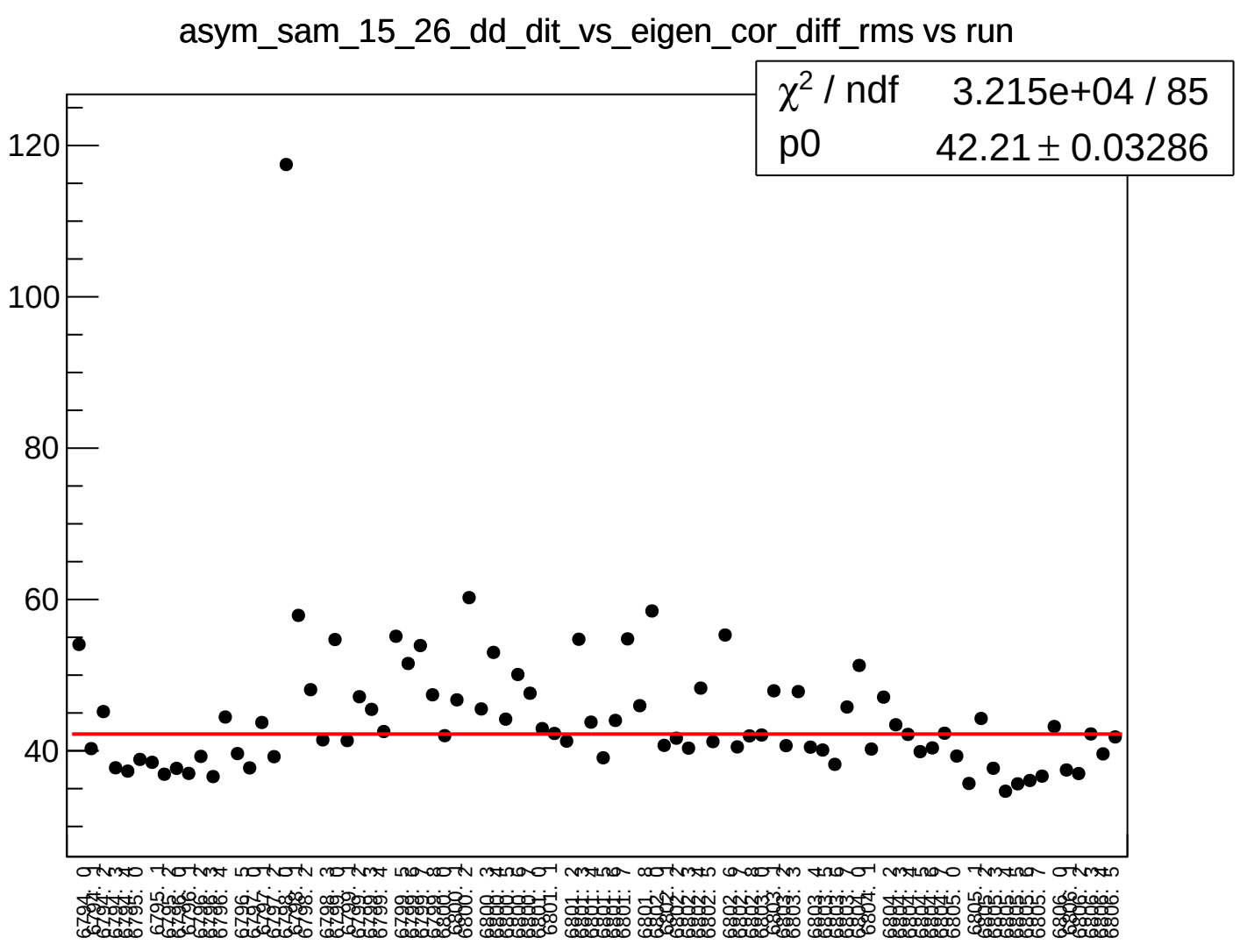

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 85
p0 0.007137 ± 0.04647
pull
Entries 86
Mean 110.2
Std Dev 0

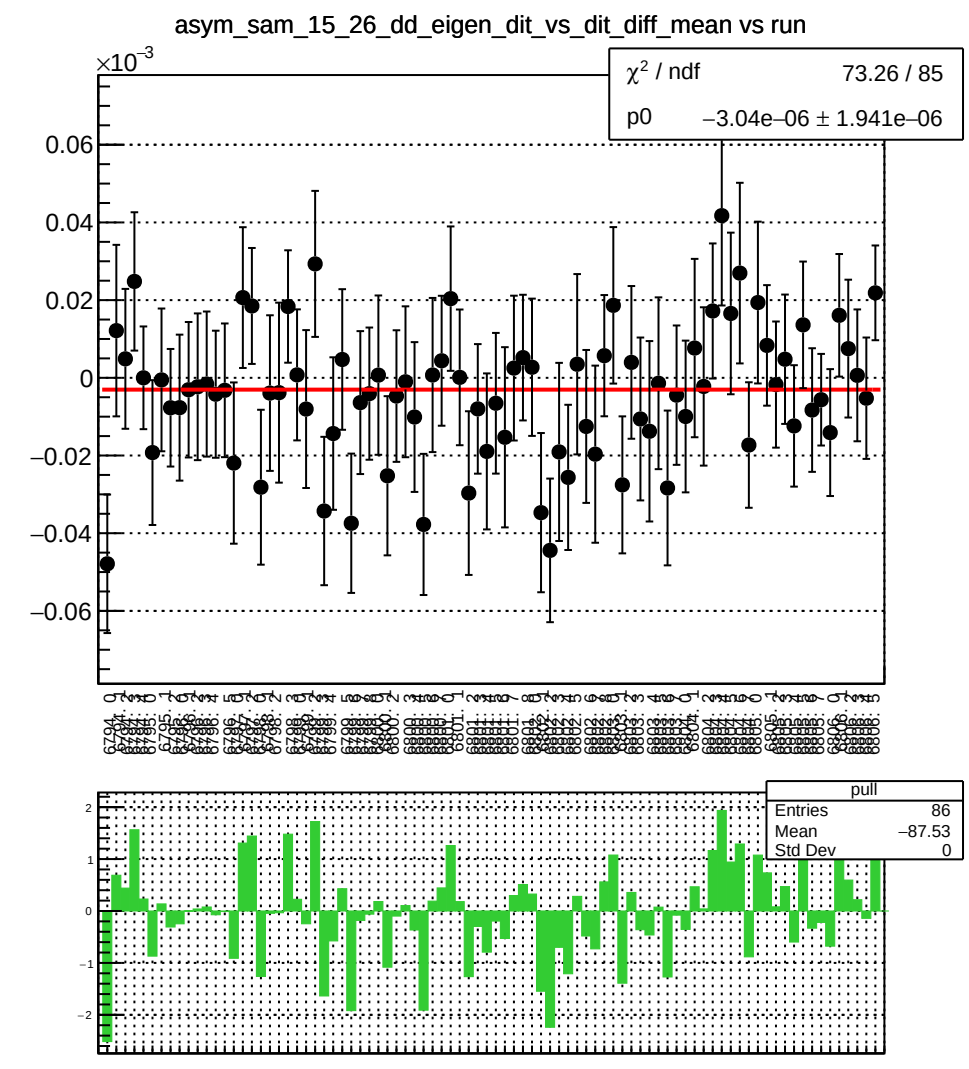

pull1D
Entries 86
Mean −0.002276
Std Dev 1.001

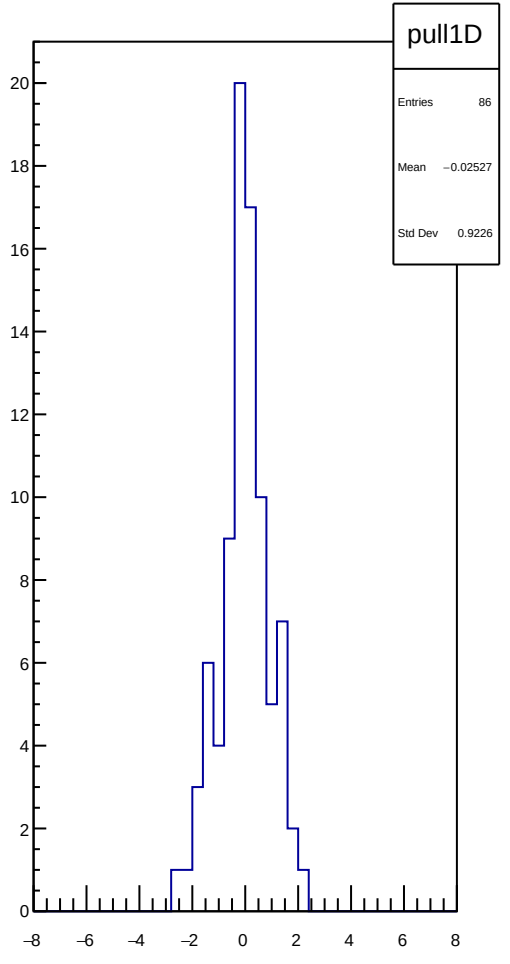

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.215e+04 / 85
p0 42.21 ± 0.03286
120
100
80
60
40

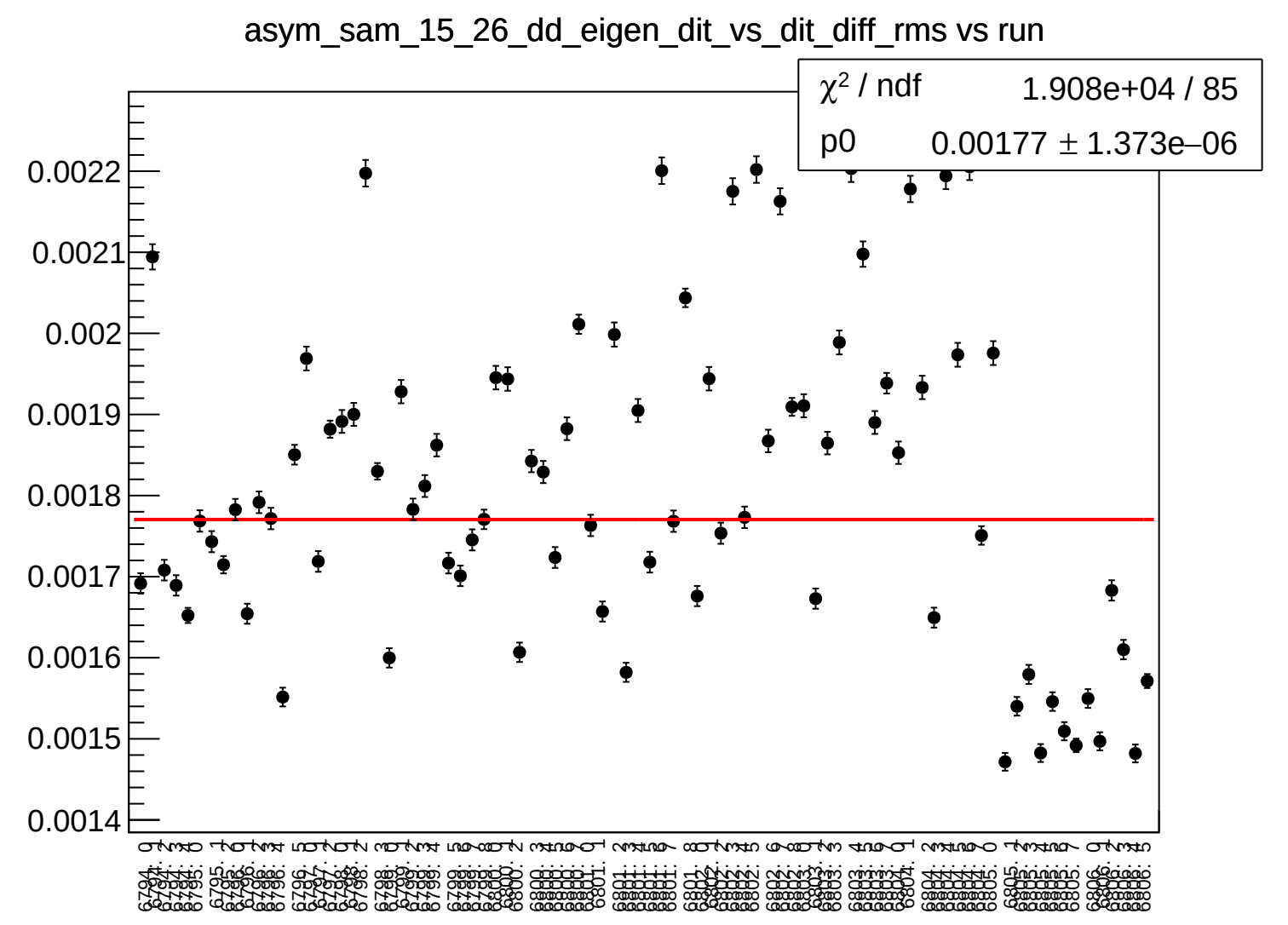

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.2 / 85
p0 0.007137 ± 0.04647
pull
Entries 86
Mean 110.2
Std Dev 0

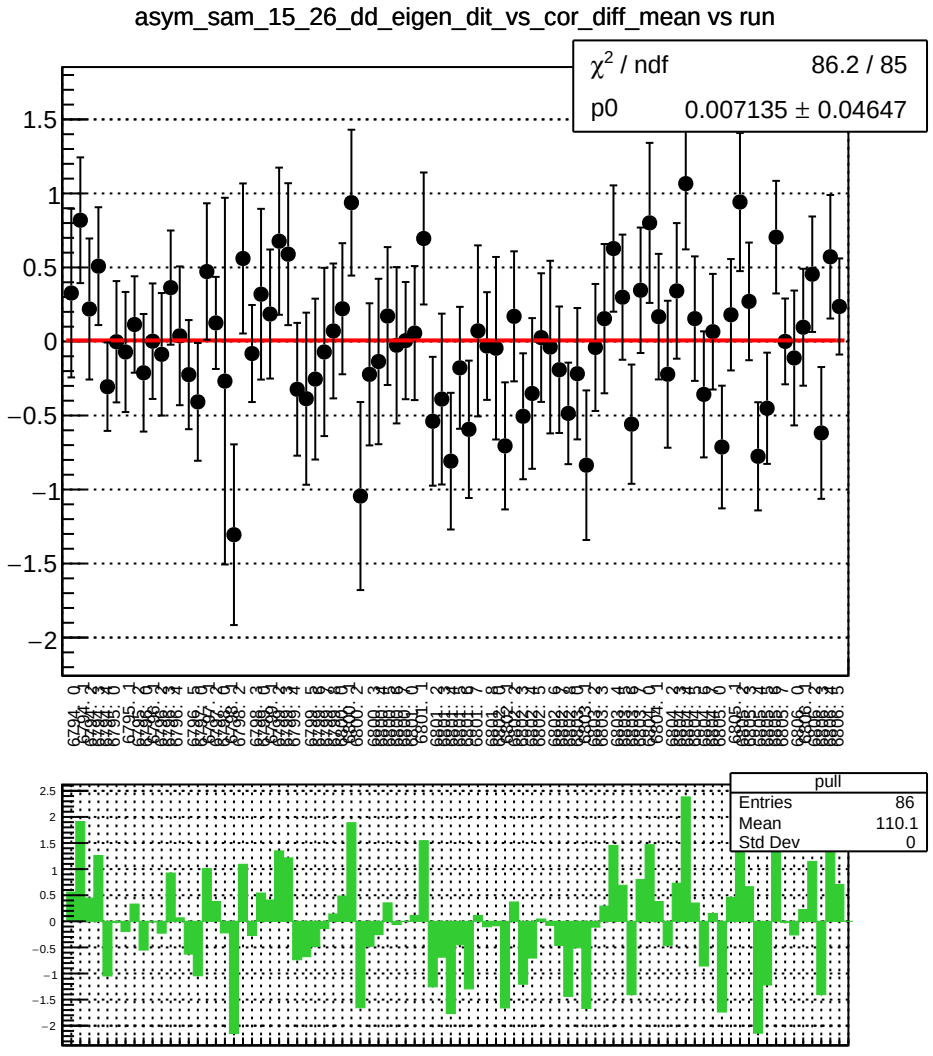

pull1D
Entries 86
Mean −0.002276
Std Dev 1.001

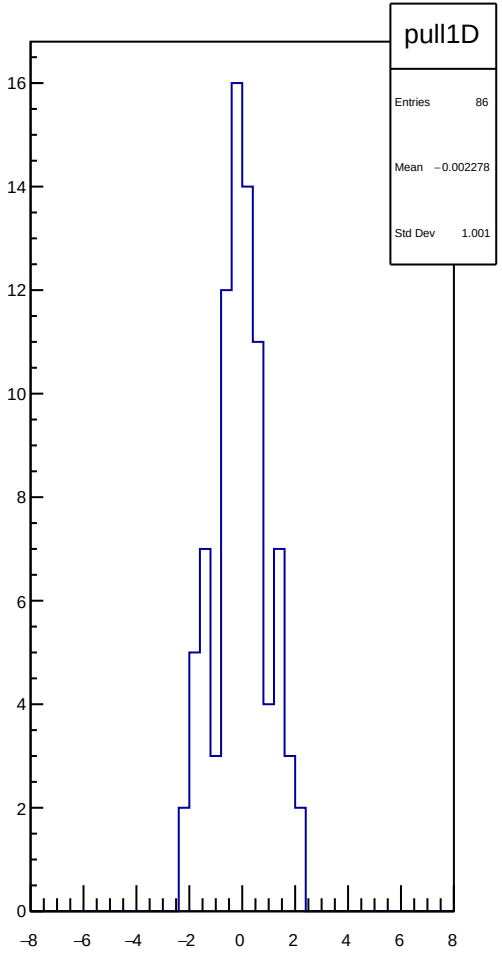

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.215e+04 / 85
p0 42.21 ± 0.03286
120
100
80
60
40

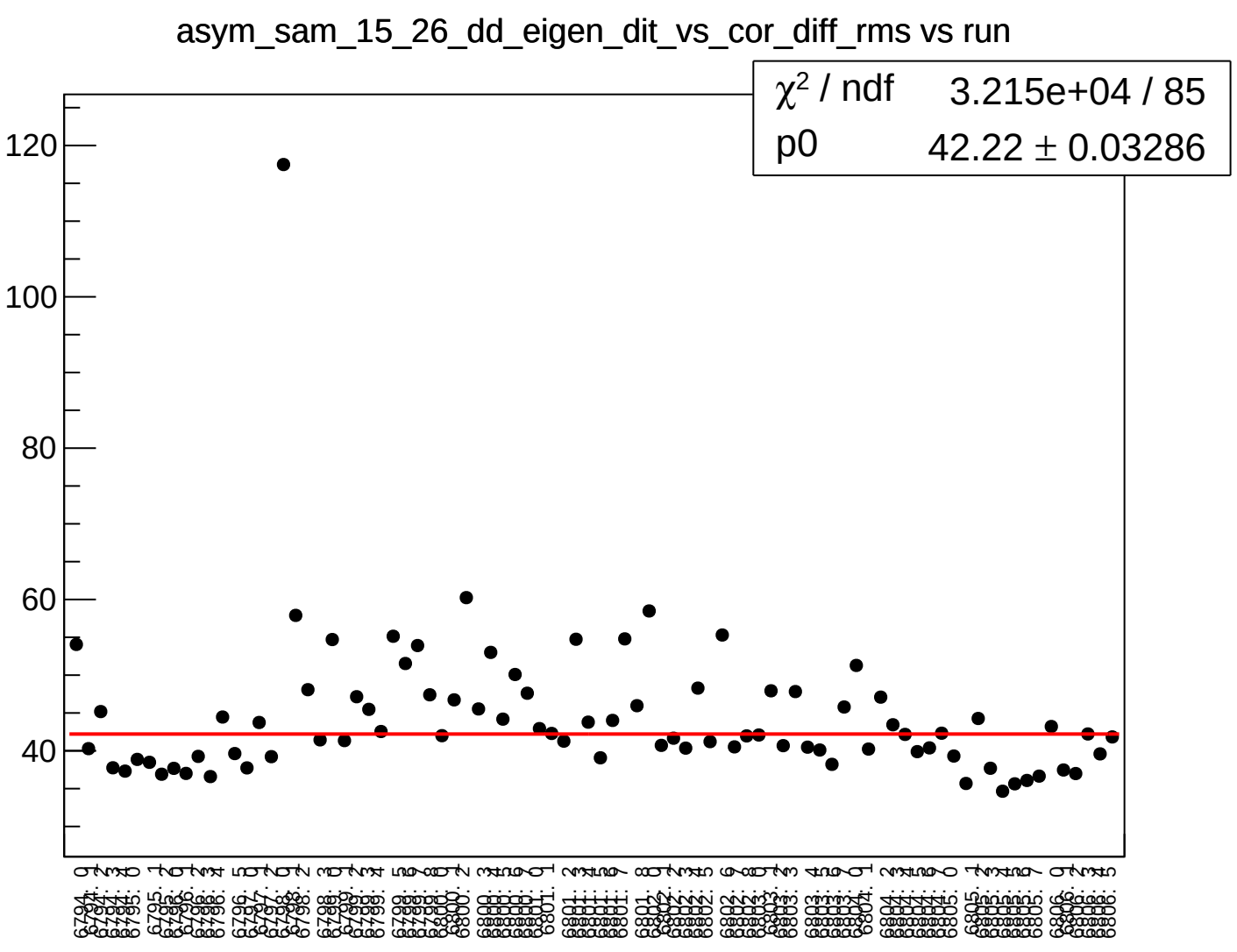

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.26 / 85
p0 −3.04e−06 ± 1.941e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −87.53
Std Dev 0
2
1
0
−1
−2

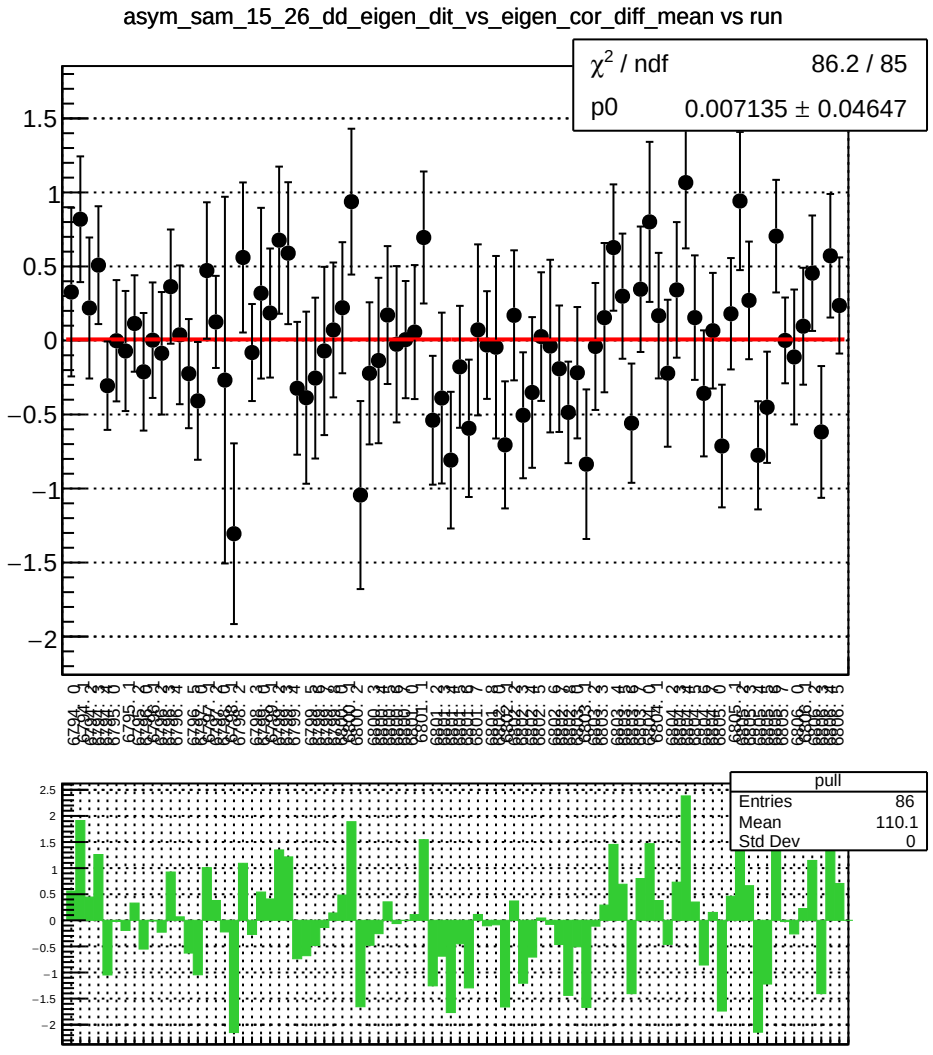

pull1D
Entries 86
Mean −0.02527
Std Dev 0.9226
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

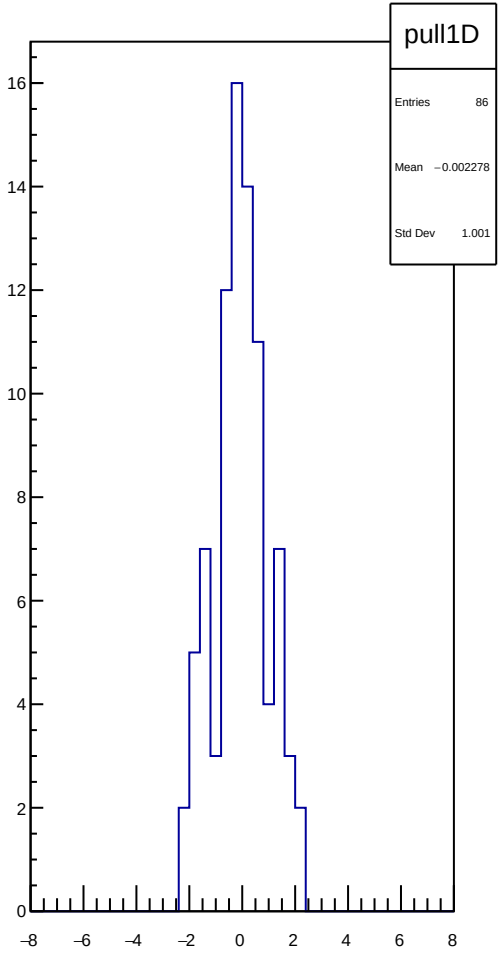

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.908e+04 / 85
p0 0.00177 ± 1.373e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014

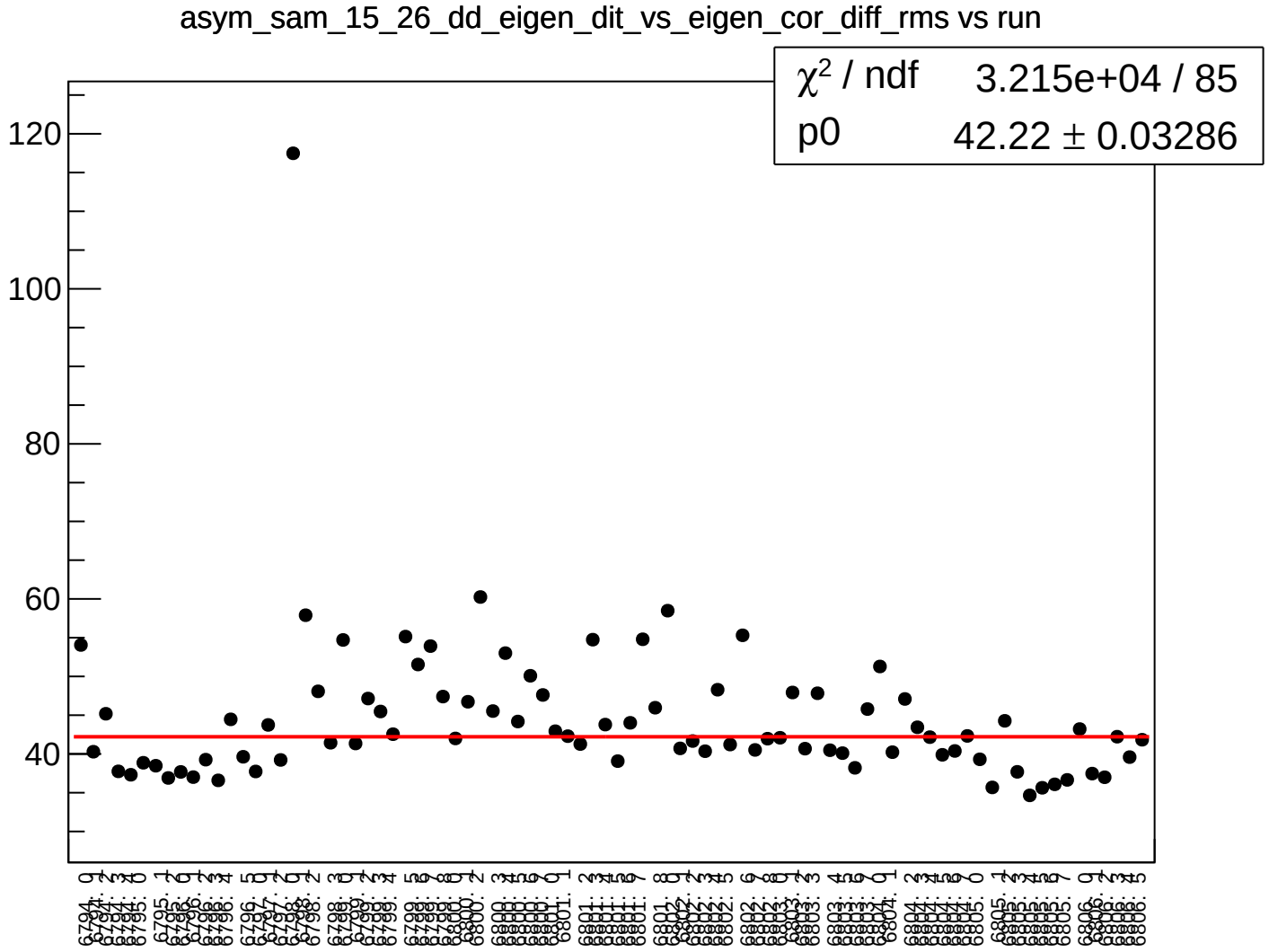

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 85
p0 0.007135 ± 0.04647
pull
Entries 86
Mean 110.1
Std Dev 0

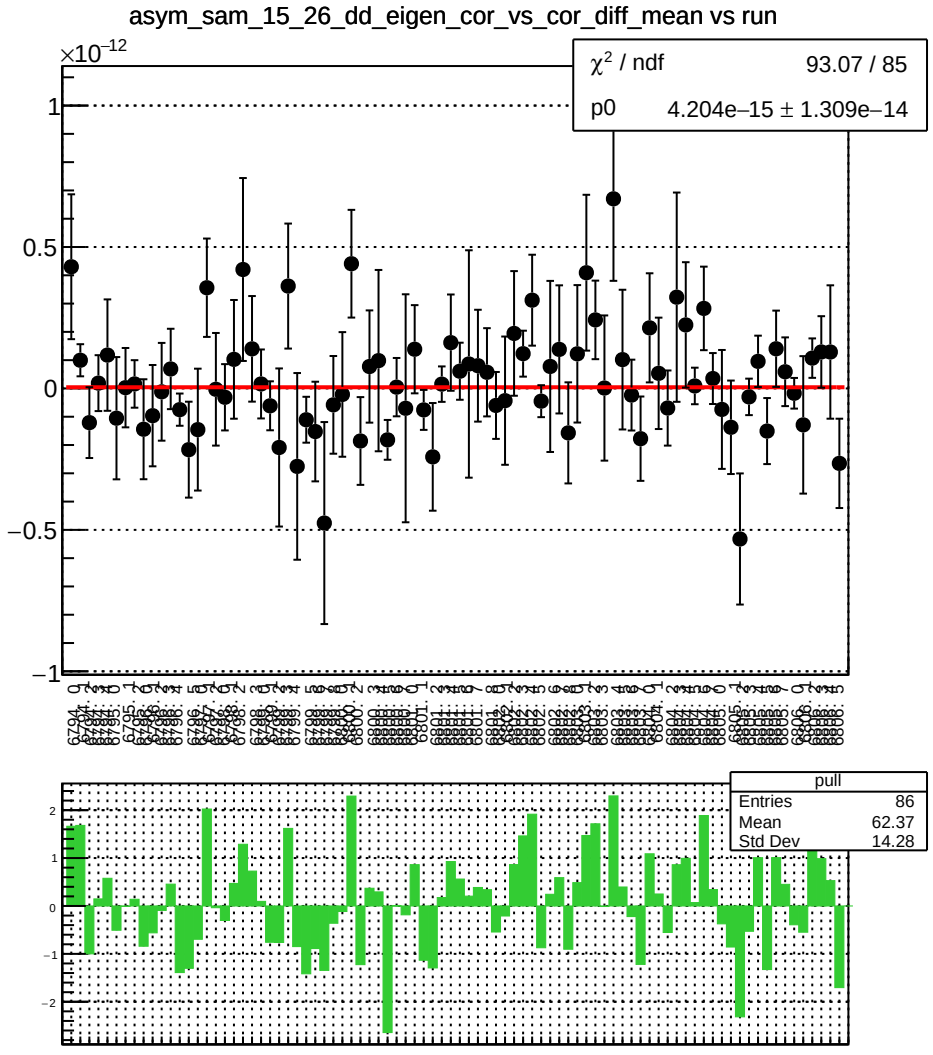

pull1D
Entries 86
Mean −0.002278
Std Dev 1.001

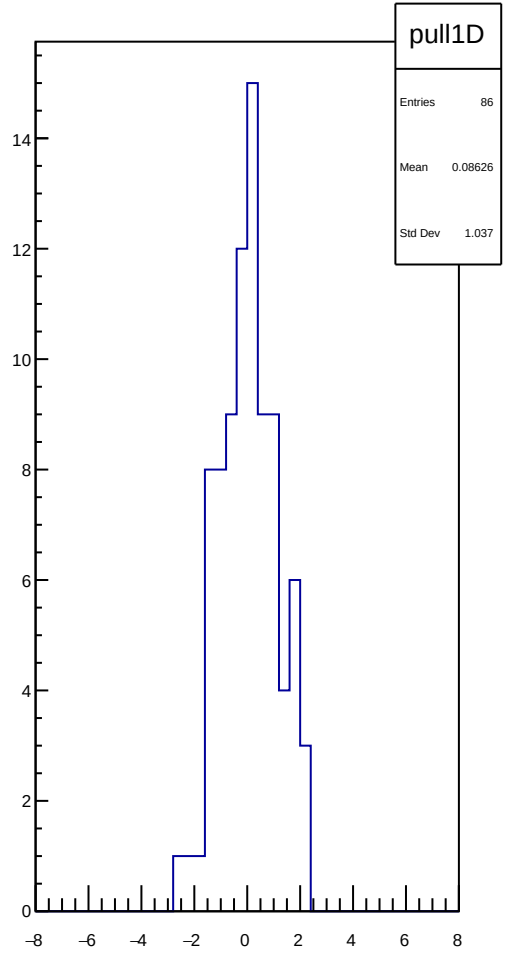

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.215e+04 / 85
p0 42.22 ± 0.03286
120
100
80
60
40

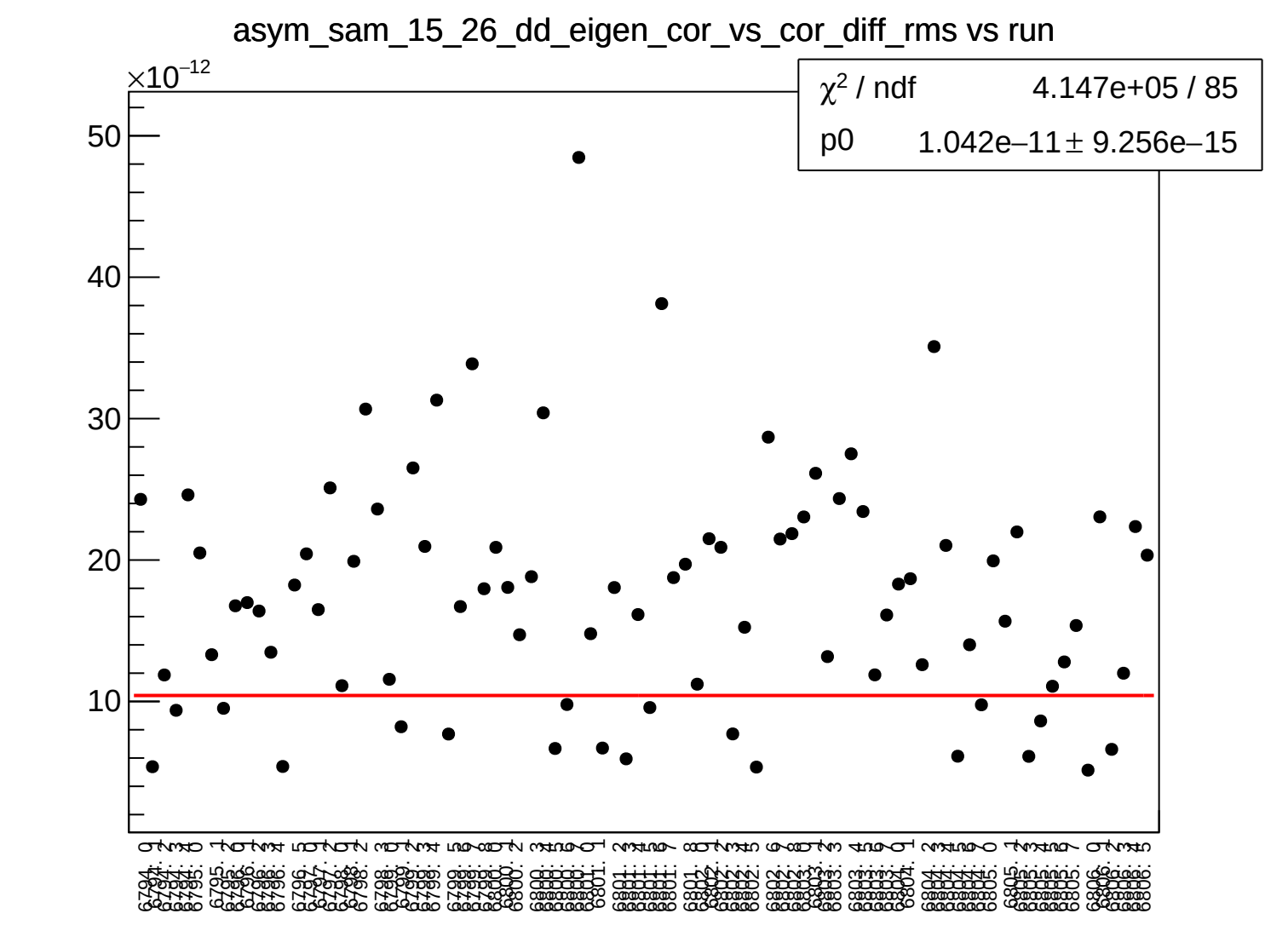

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.2 / 85
p0 0.007135 ± 0.04647
pull
Entries 86
Mean 110.1
Std Dev 0

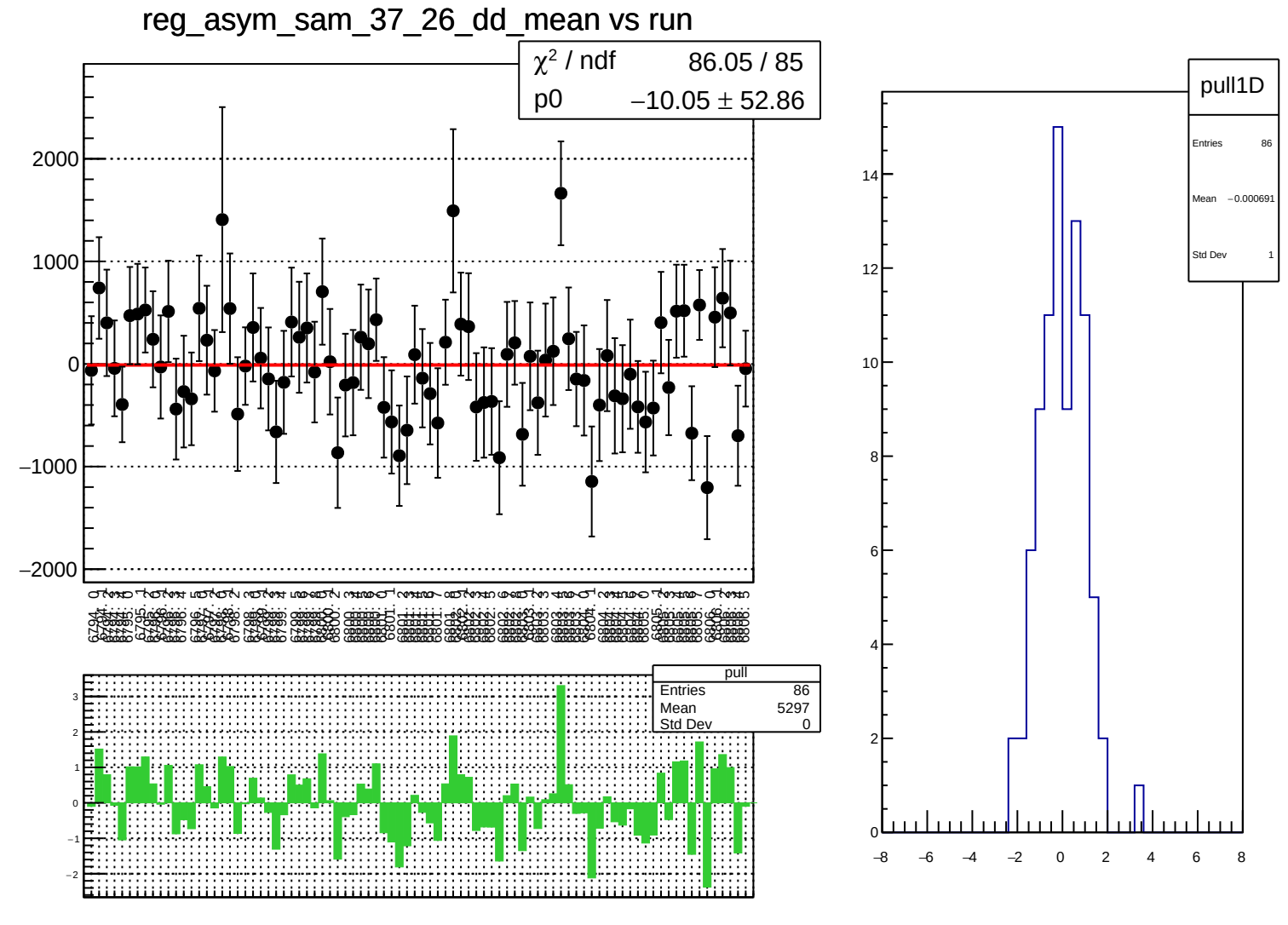

pull1D
Entries 86
Mean −0.002278
Std Dev 1.001

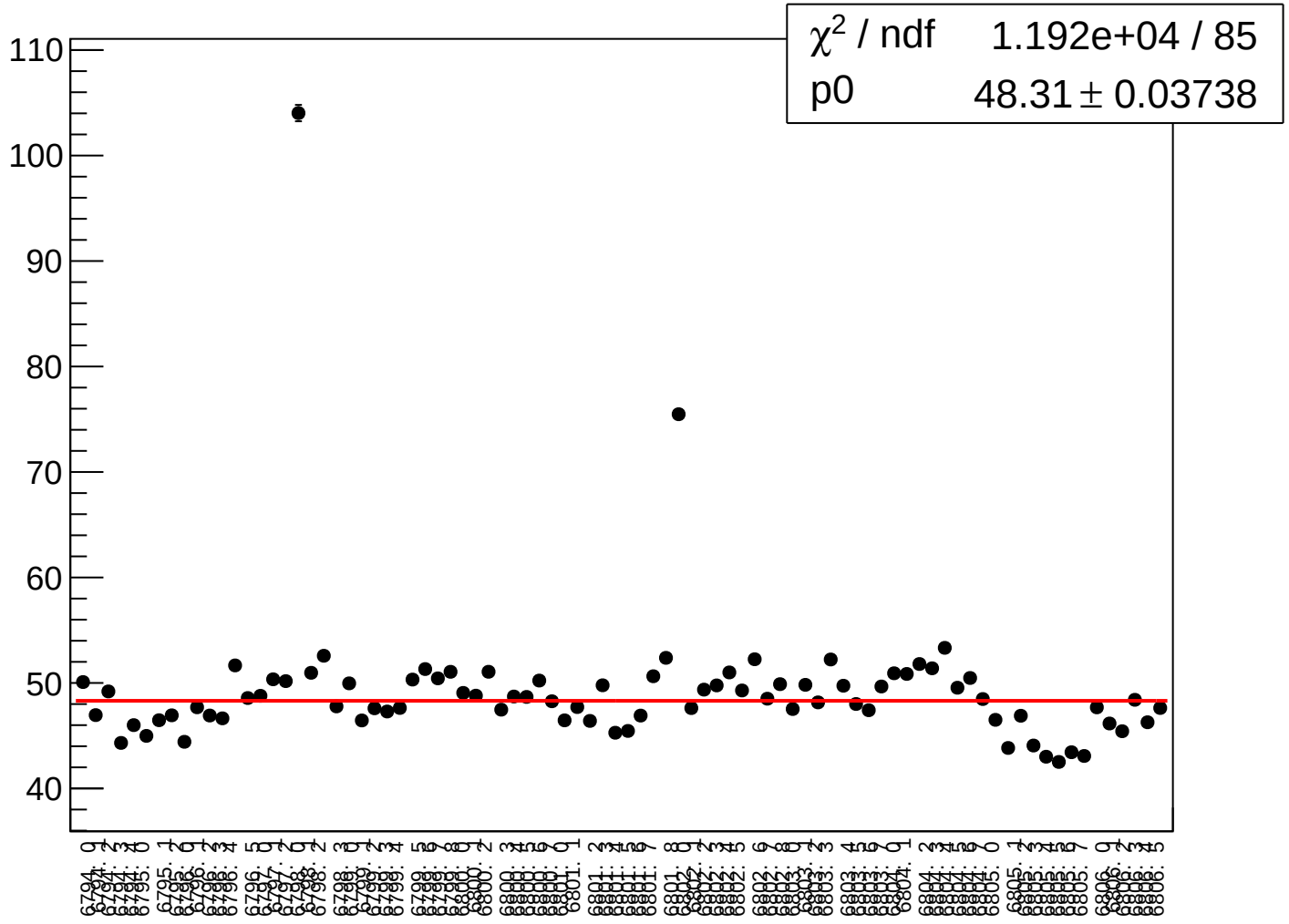

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.215e+04 / 85
p0 42.22 ± 0.03286
120
100
80
60
40

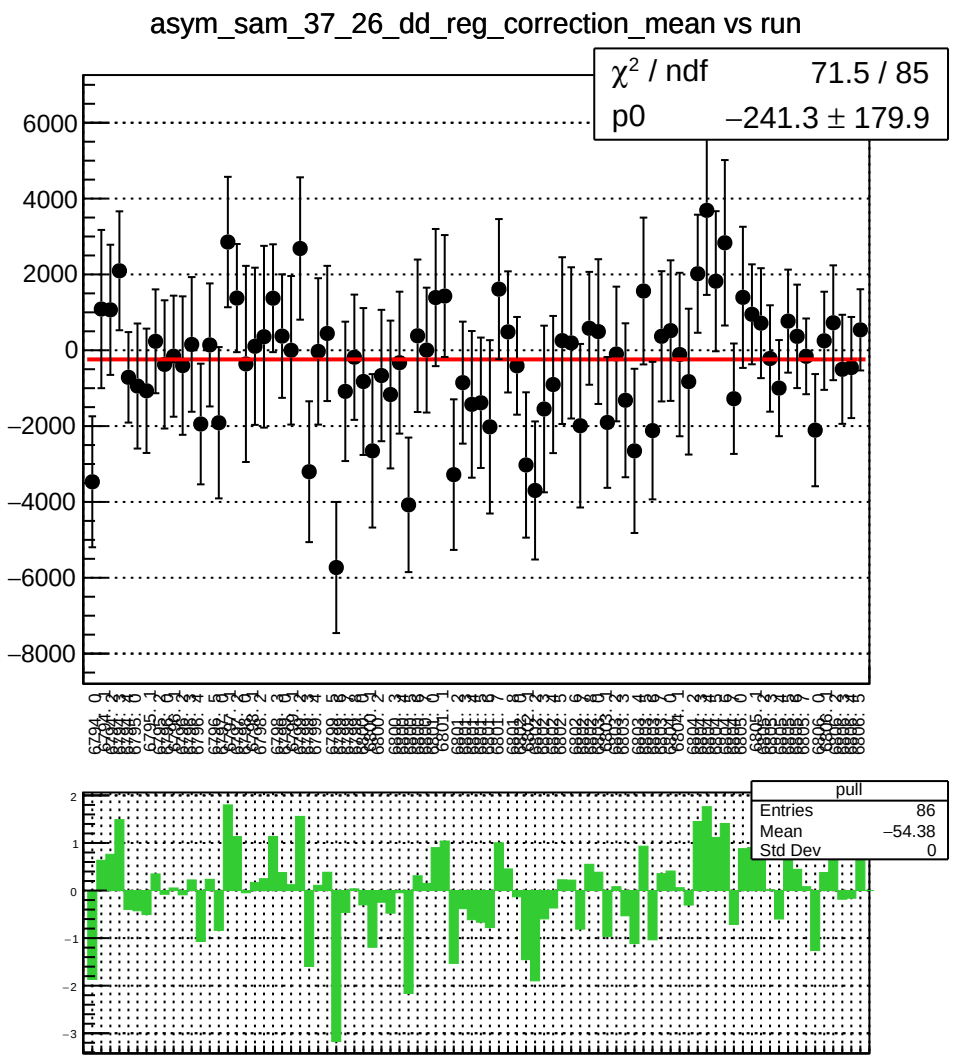

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.07 / 85
p0 4.204e−15 ± 1.309e−14
pull
Entries 86
Mean 62.37
Std Dev 14.28

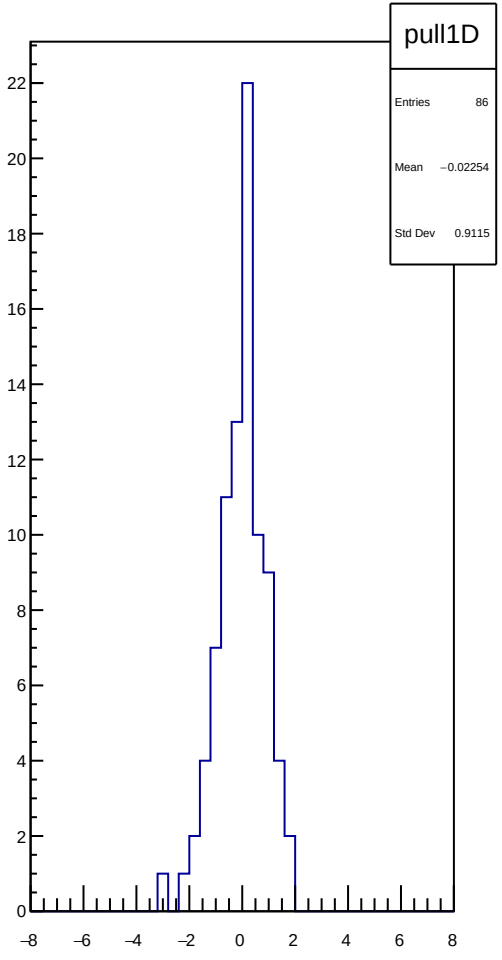

pull1D
Entries 86
Mean 0.08626
Std Dev 1.037

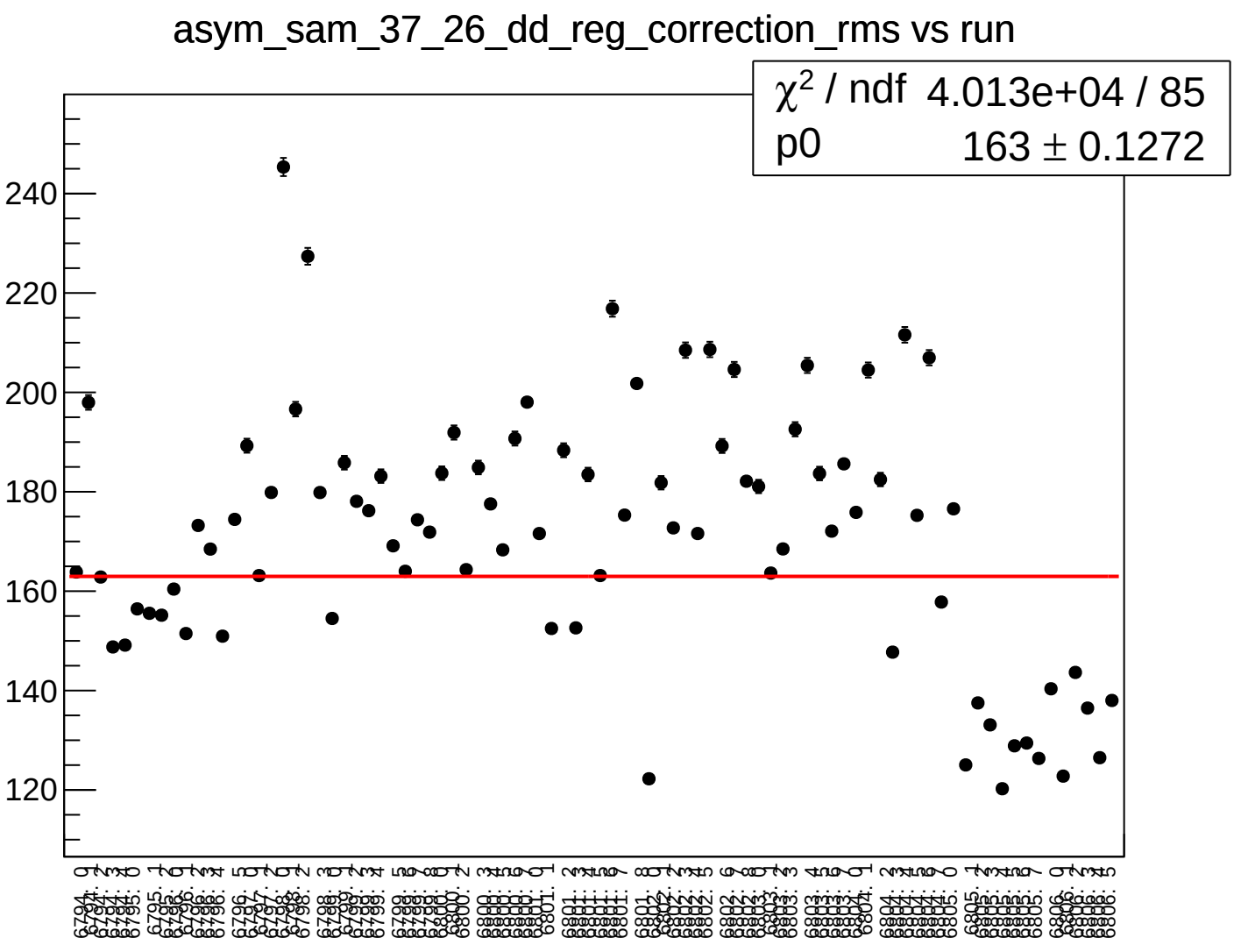

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.147e+05 / 85
p0 1.042e−11 ± 9.256e−15
50
40
30
20
10

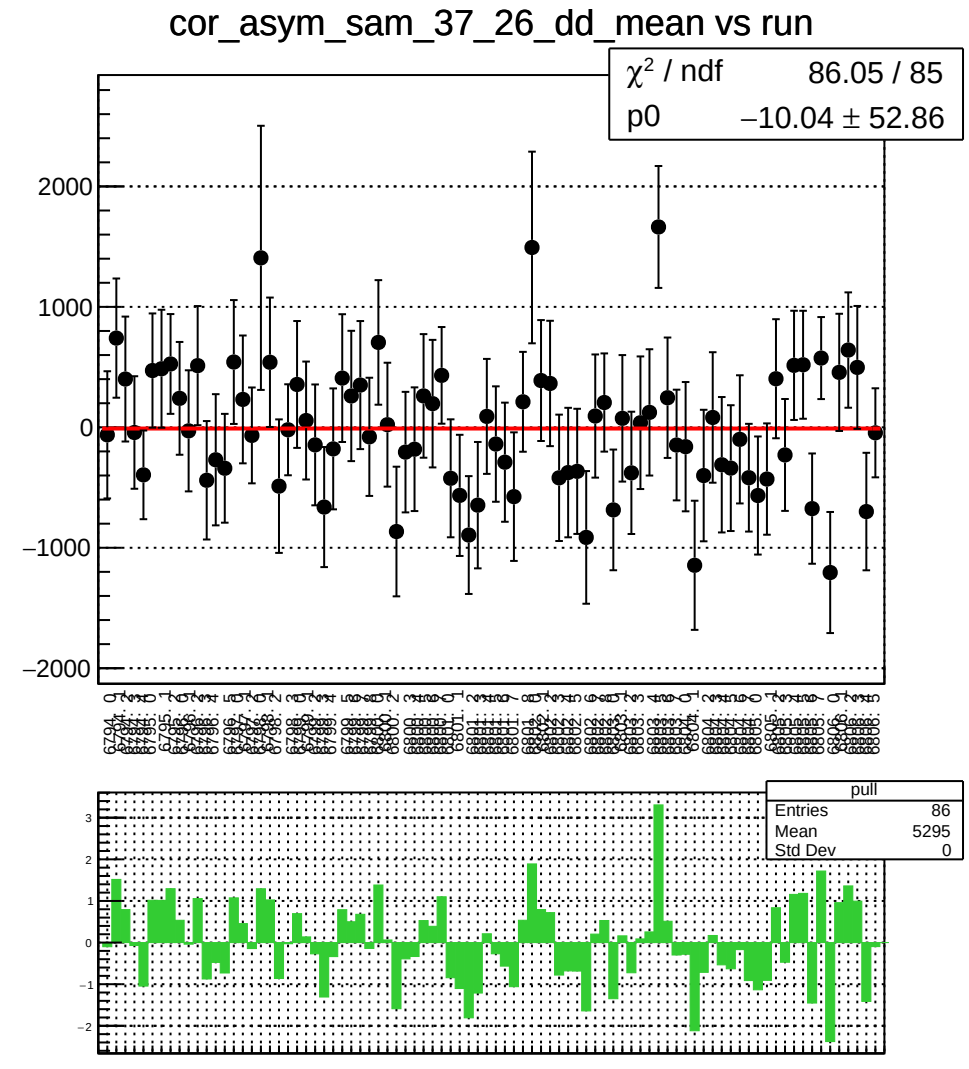

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 86.05 / 85
p0 −10.05 ± 52.86
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 5297
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean −0.000691
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

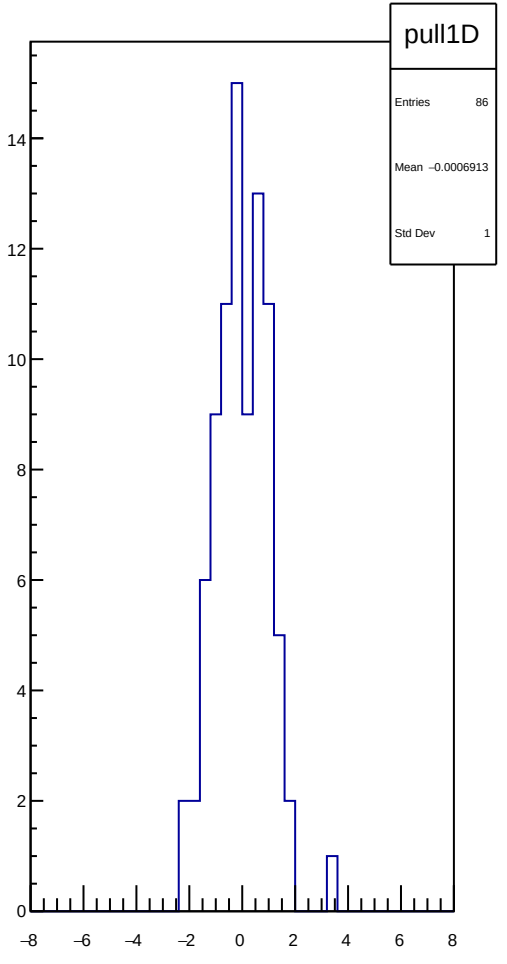

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.192e+04 / 85
p0 48.31 ± 0.03738
110
100
90
80
70
60
50
40

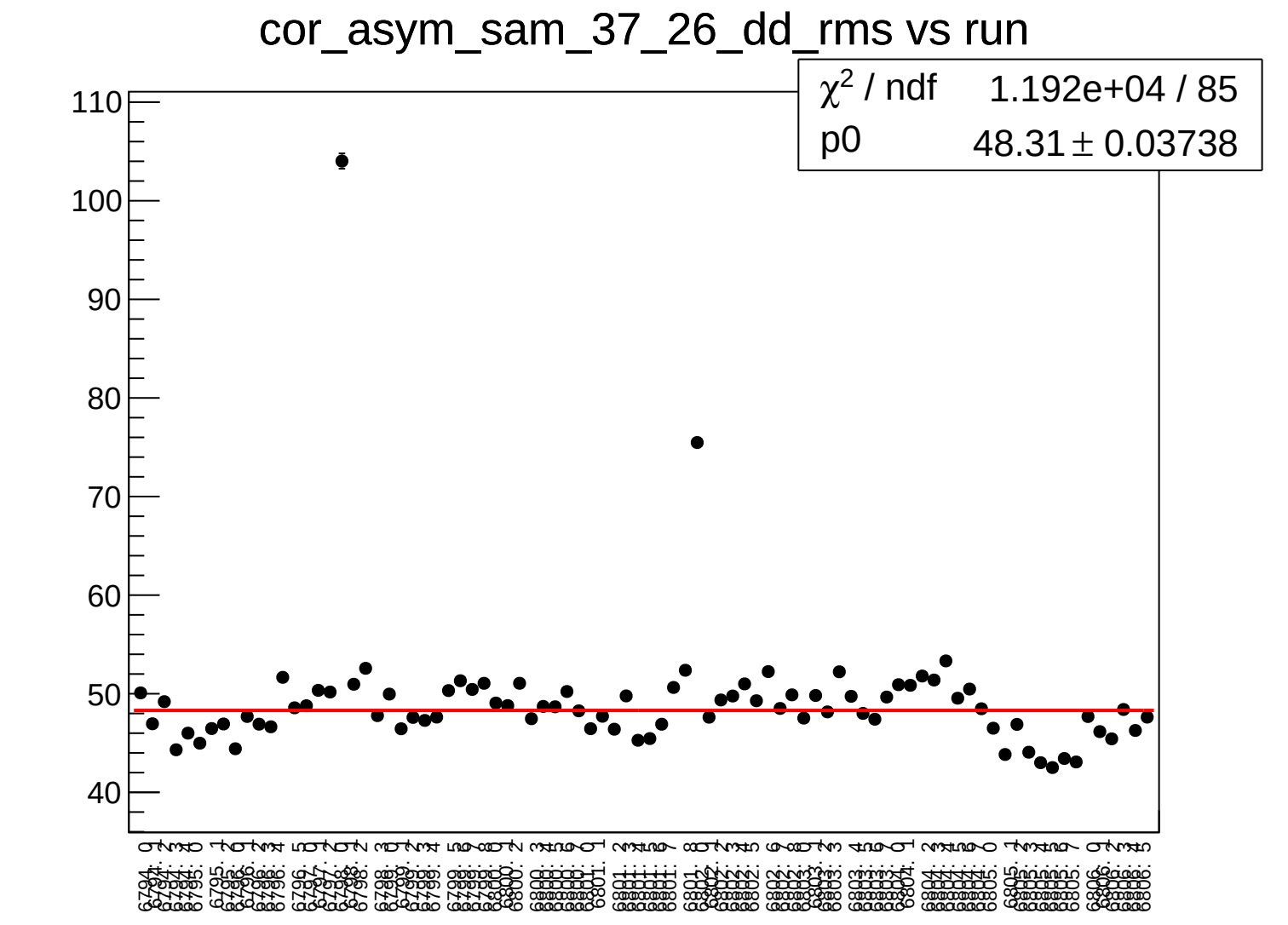

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 71.5 / 85
p0 −241.3 ± 179.9
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −54.38
Std Dev 0
2
1
0
−1
−2
−3

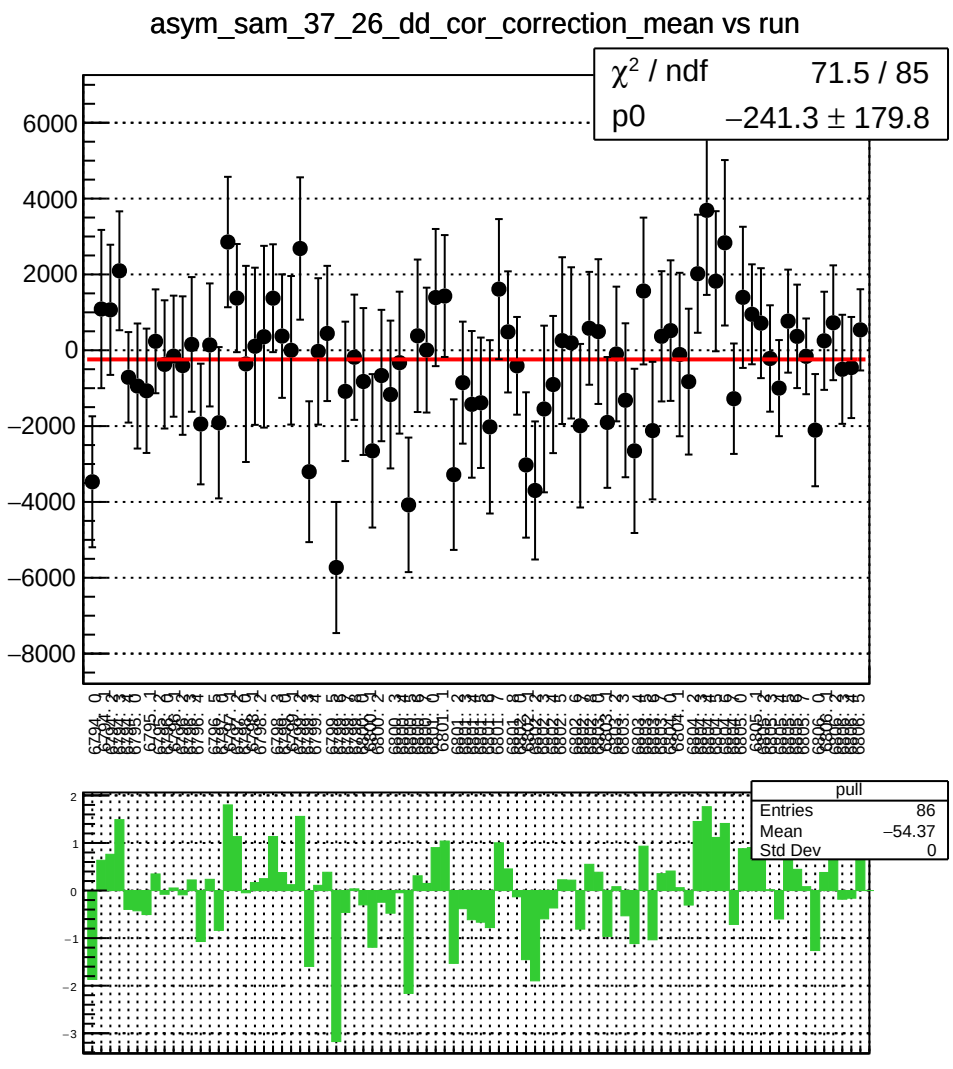

pull1D
Entries 86
Mean −0.02254
Std Dev 0.9115
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

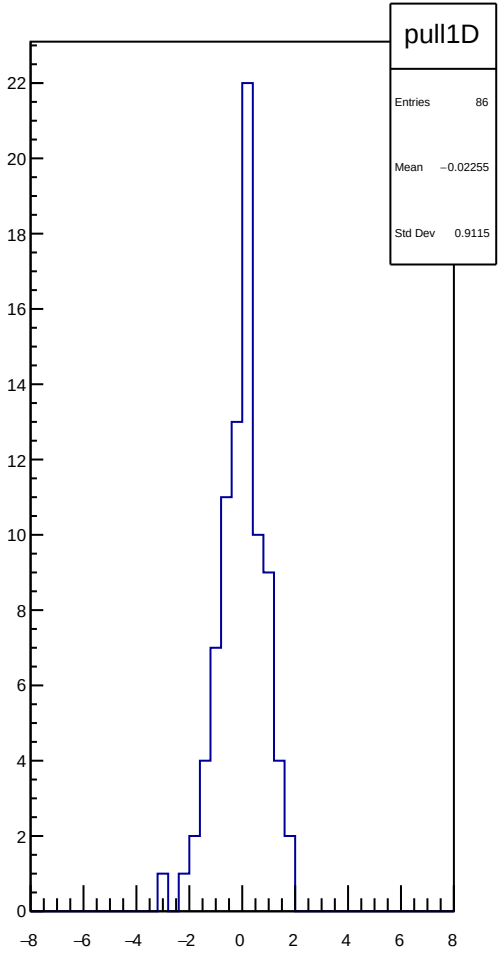

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4.013e+04 / 85
p0 163 ± 0.1272
240
220
200
180
160
140
120

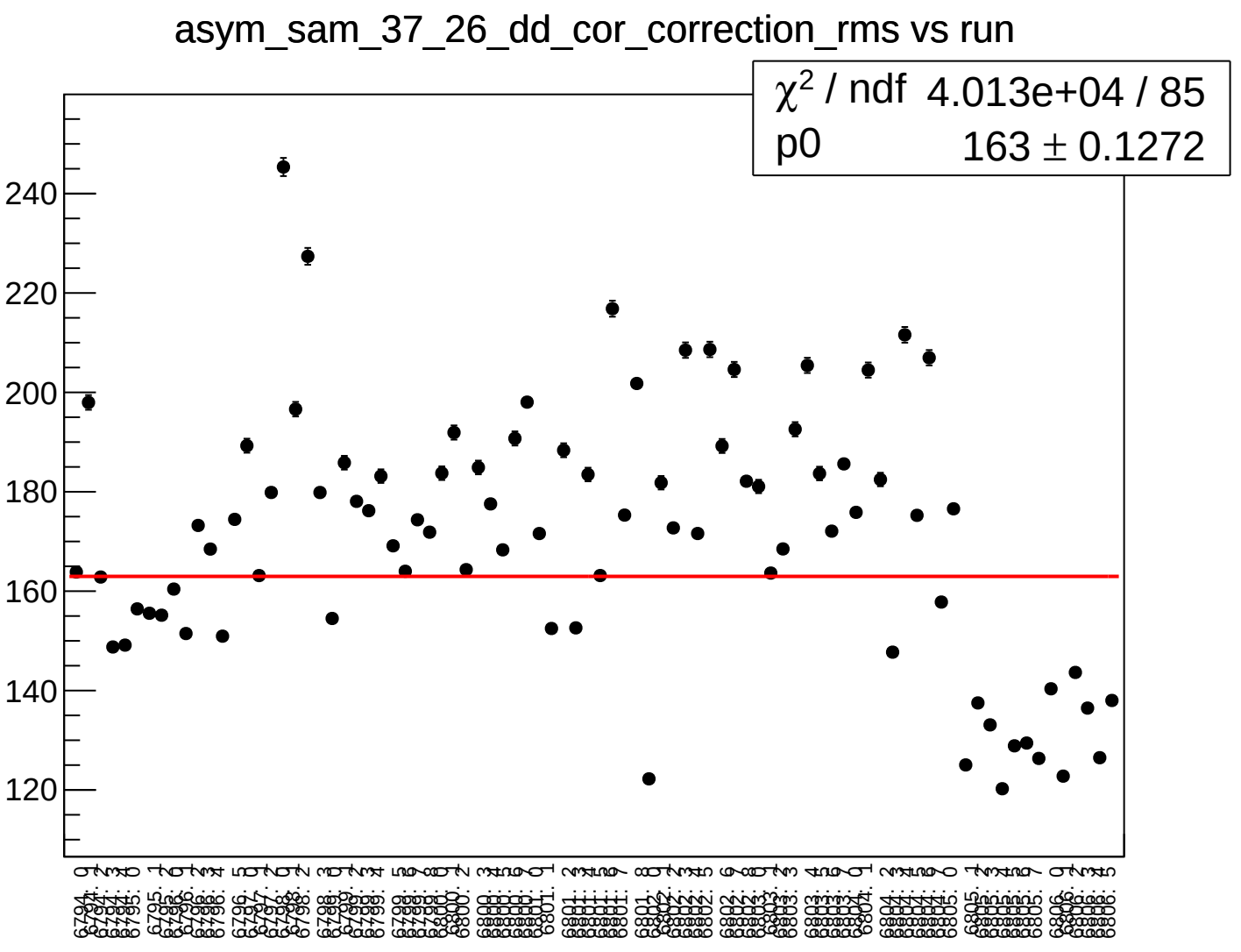

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 86.05 / 85
p0 −10.04 ± 52.86
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 5295
Std Dev 0
3
2
1
0
−1
−2

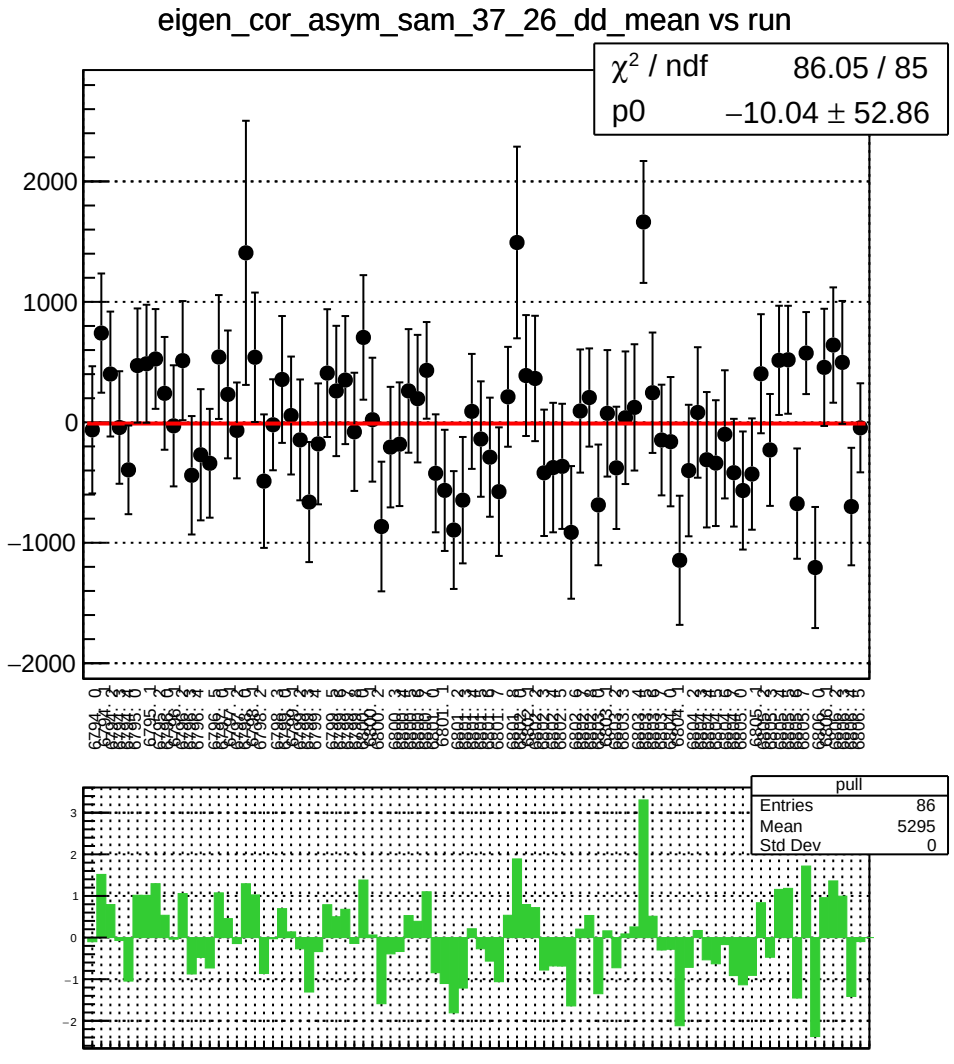

pull1D
Entries 86
Mean −0.0006913
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

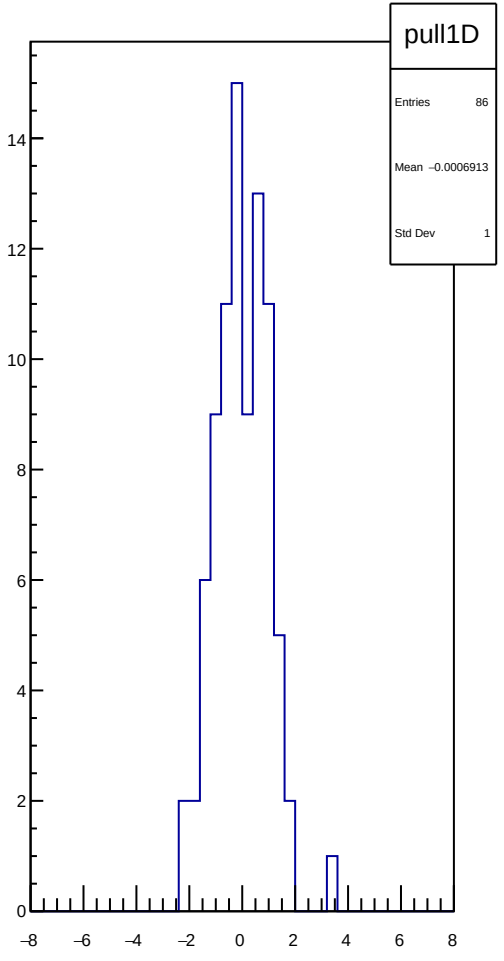

cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.192e+04 / 85
p0 48.31 ± 0.03738
110
100
90
80
70
60
50
40

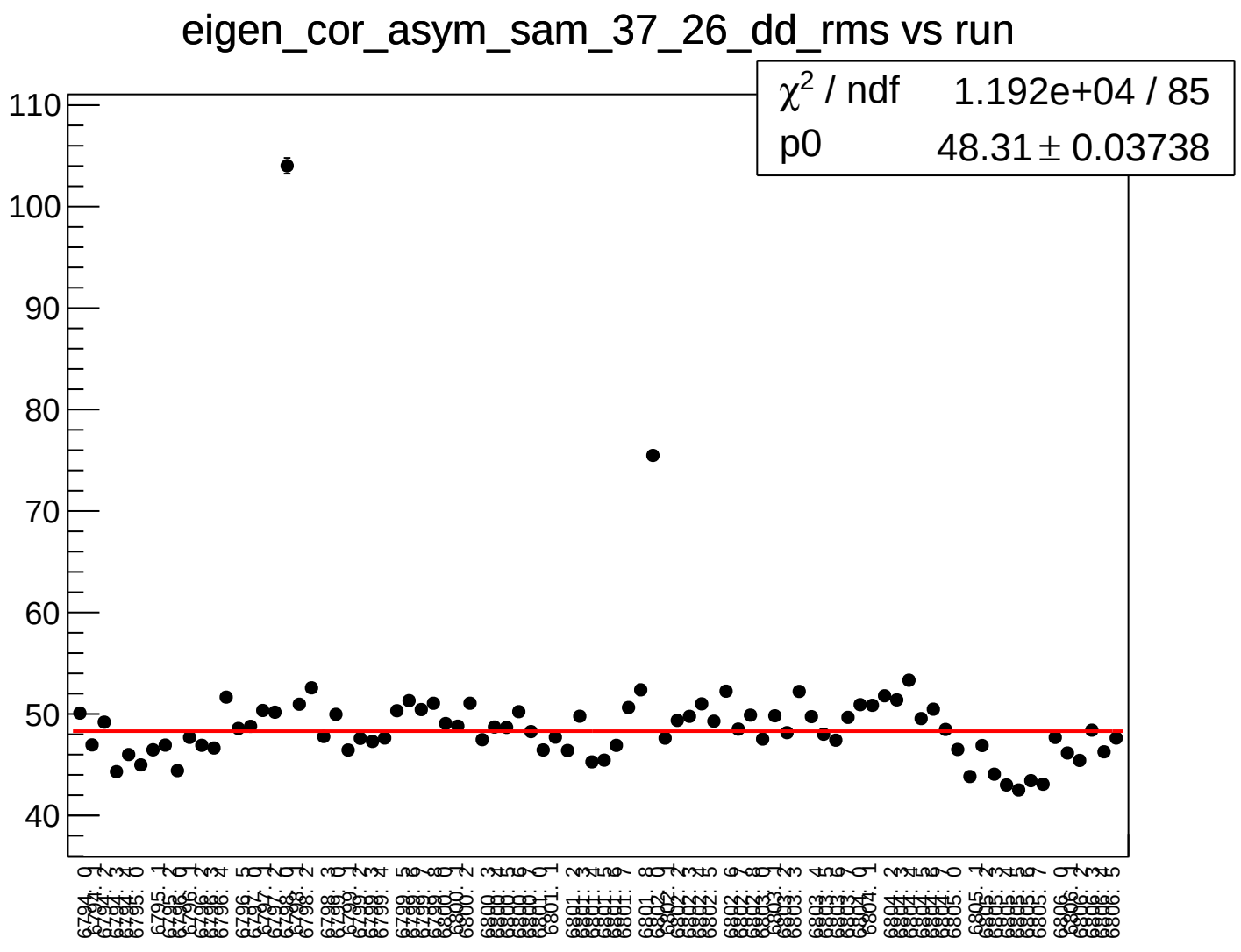

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 71.5 / 85
p0 −241.3 ± 179.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 86
Mean −54.37
Std Dev 0
2
1
0
−1
−2
−3

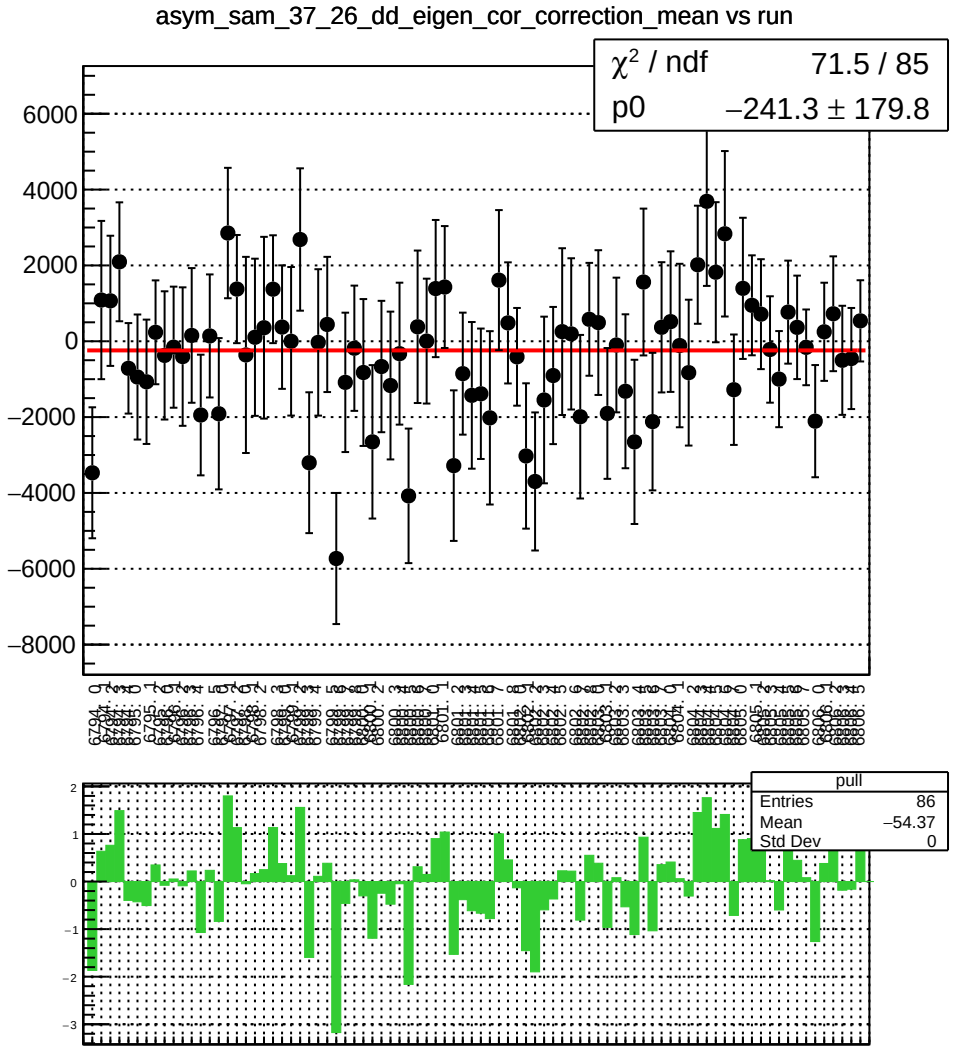

pull1D
Entries 86
Mean −0.02255
Std Dev 0.9115
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

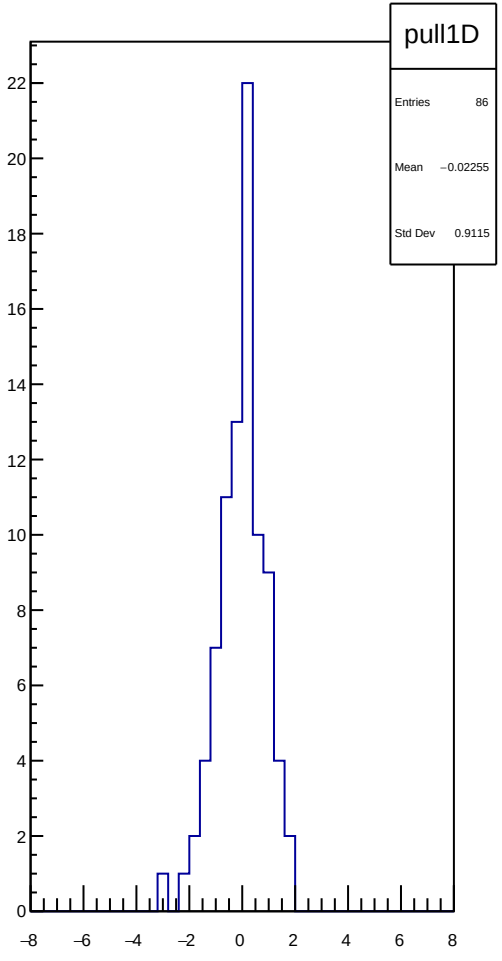

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4.013e+04 / 85
p0 163 ± 0.1272
240
220
200
180
160
140
120

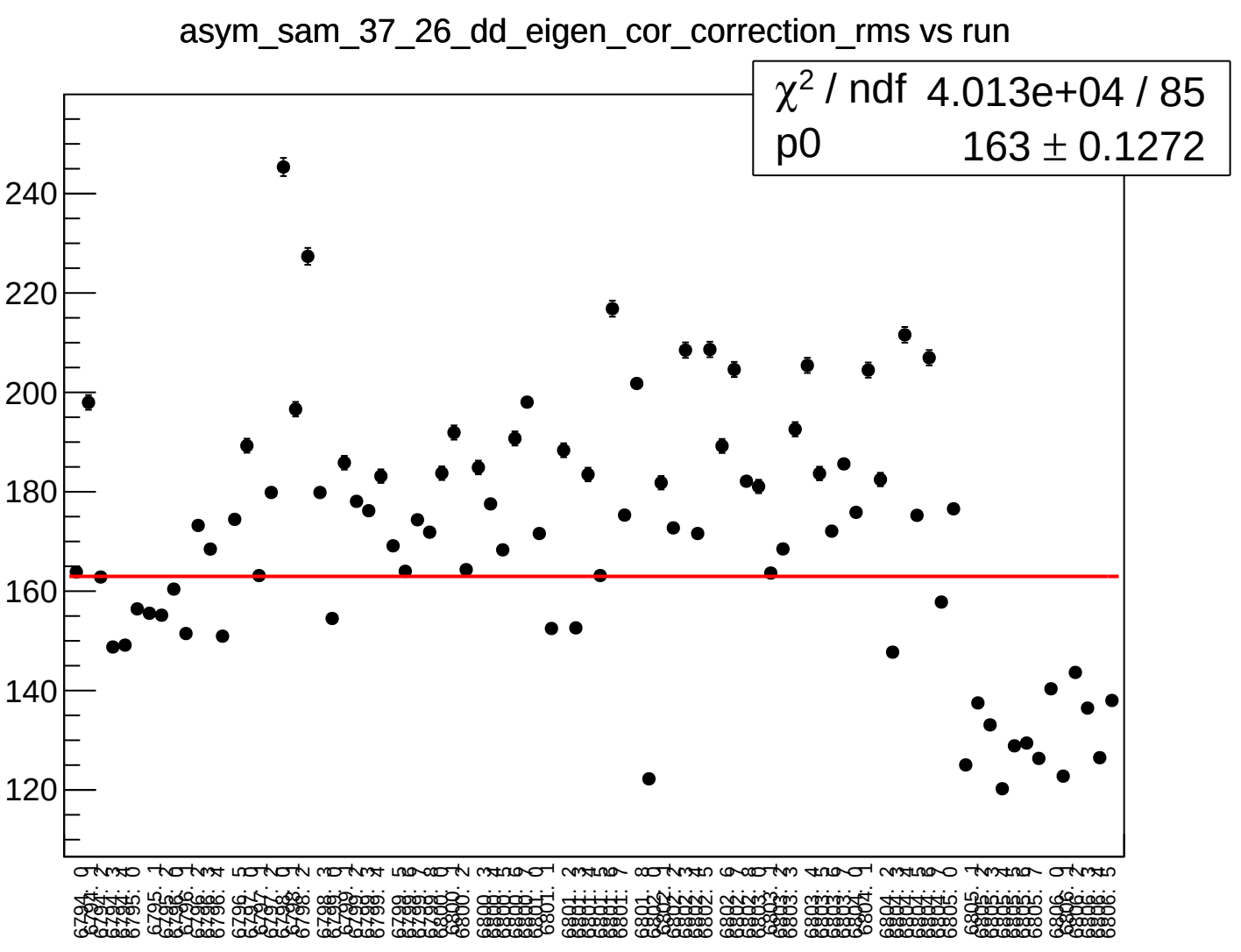

eigen_cor_asym_sam_37_26_dd_mean vs run
χ^2 / ndf 86.05 / 85
p0 −10.04 ± 52.86
2000
1000
0
−1000
−2000
pull
Entries 86
Mean 5295
Std Dev 0
3
2
1
0
−1
−2

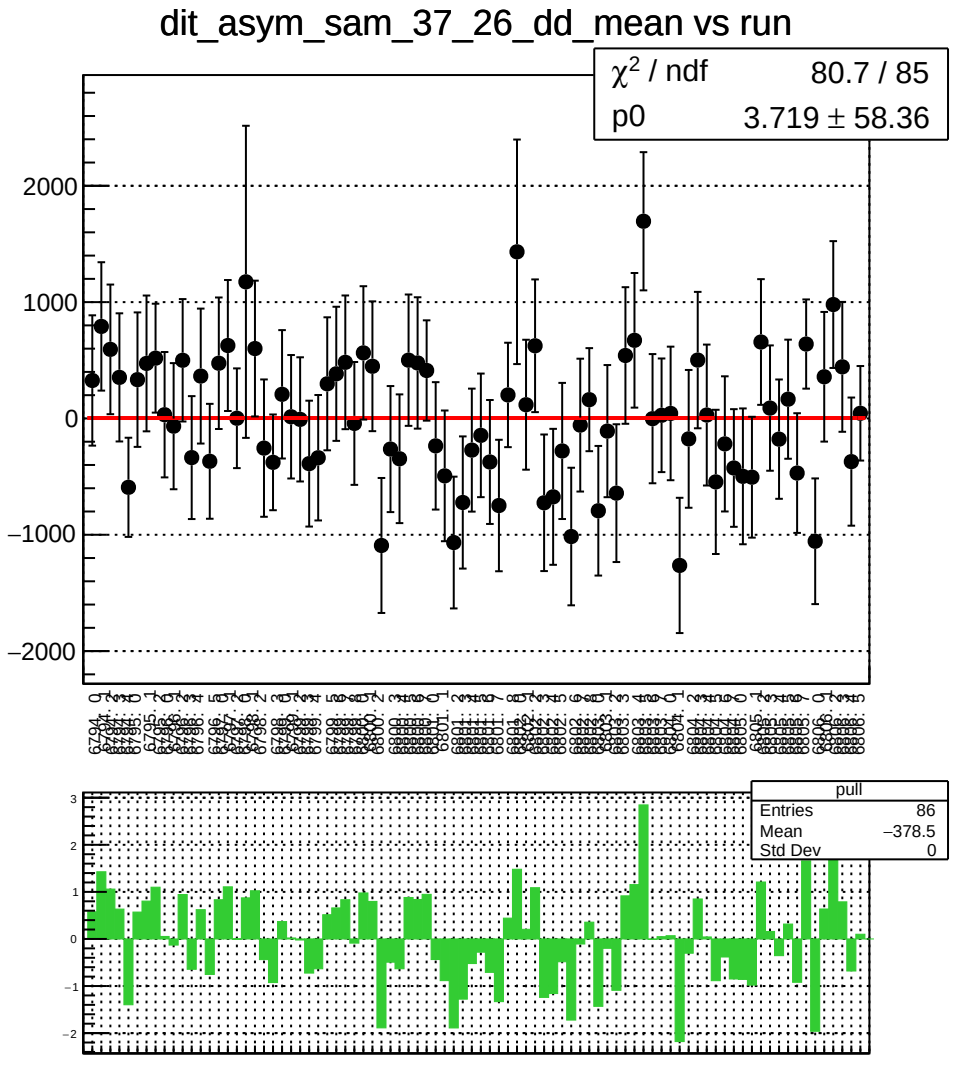

pull1D
Entries 86
Mean −0.0006913
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

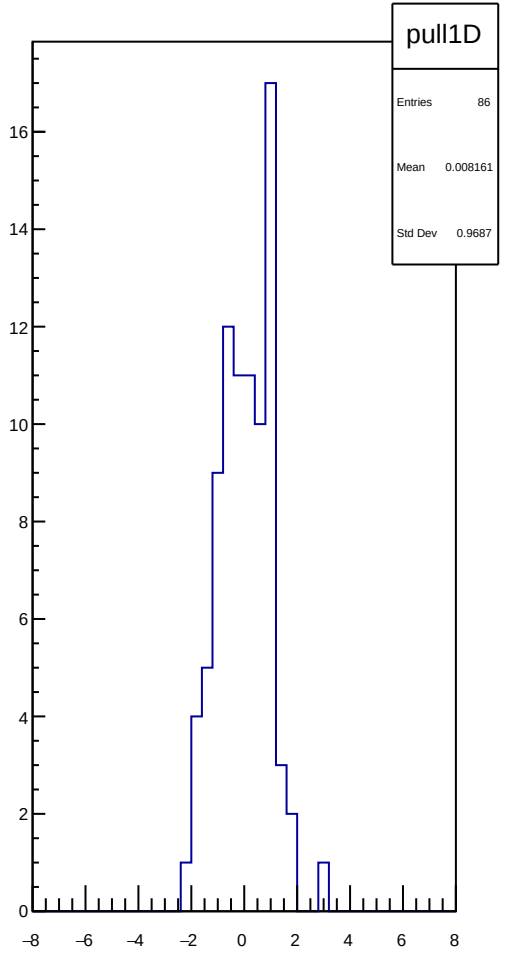

eigen_cor_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.192e+04 / 85
p0 48.31 ± 0.03738
110
100
90
80
70
60
50
40

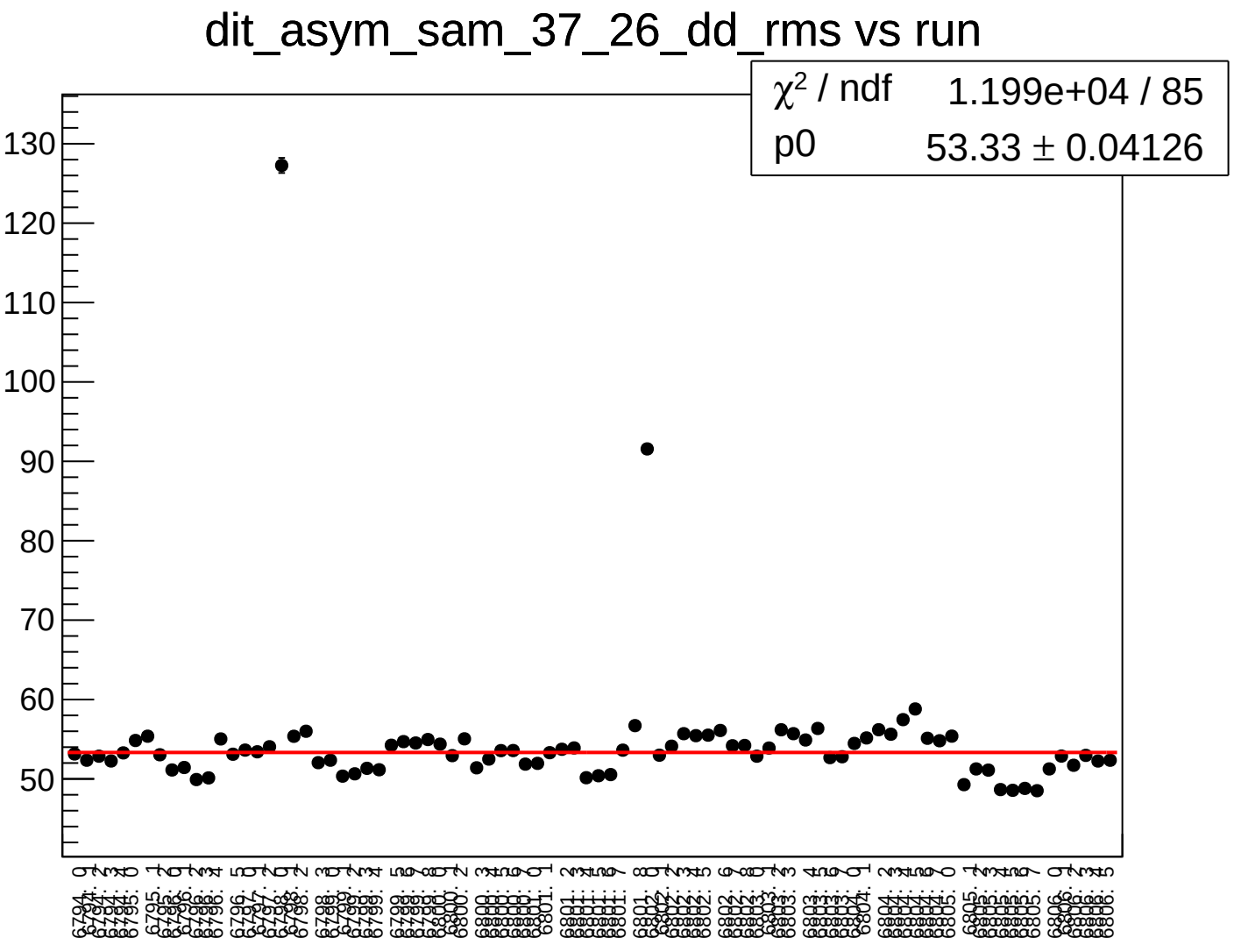

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.5 / 85
p0 −241.3 ± 179.8
pull
Entries 86
Mean −54.37
Std Dev 0

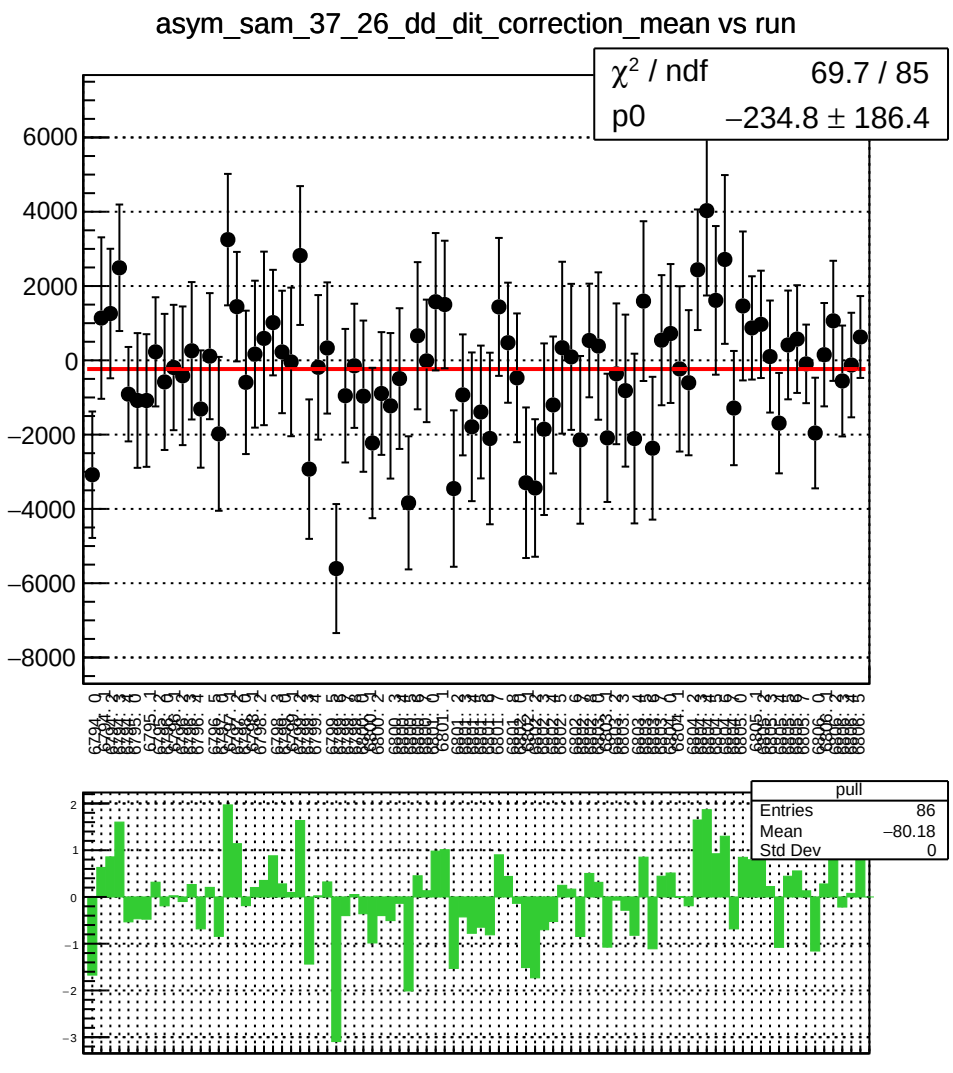

pull1D
Entries 86
Mean −0.02255
Std Dev 0.9115

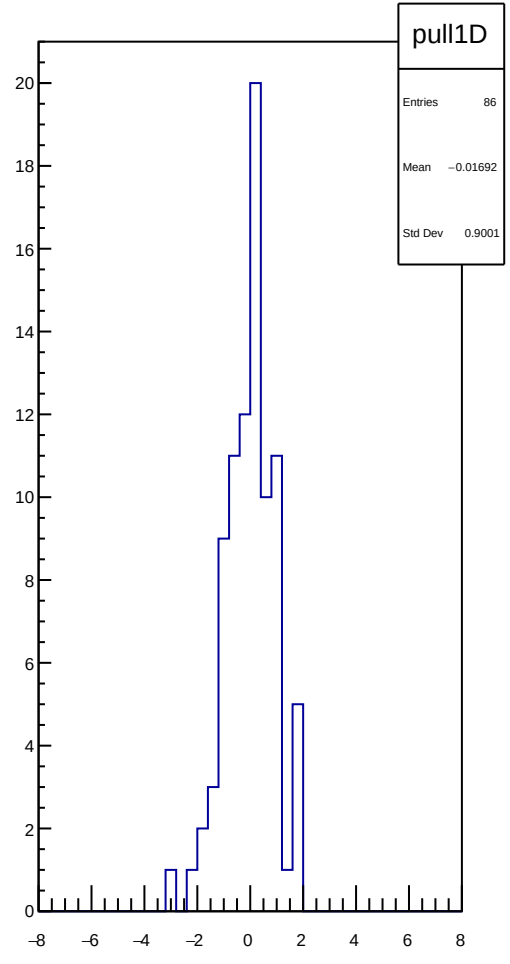

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4.013e+04 / 85
p0 163 ± 0.1272
240
220
200
180
160
140
120

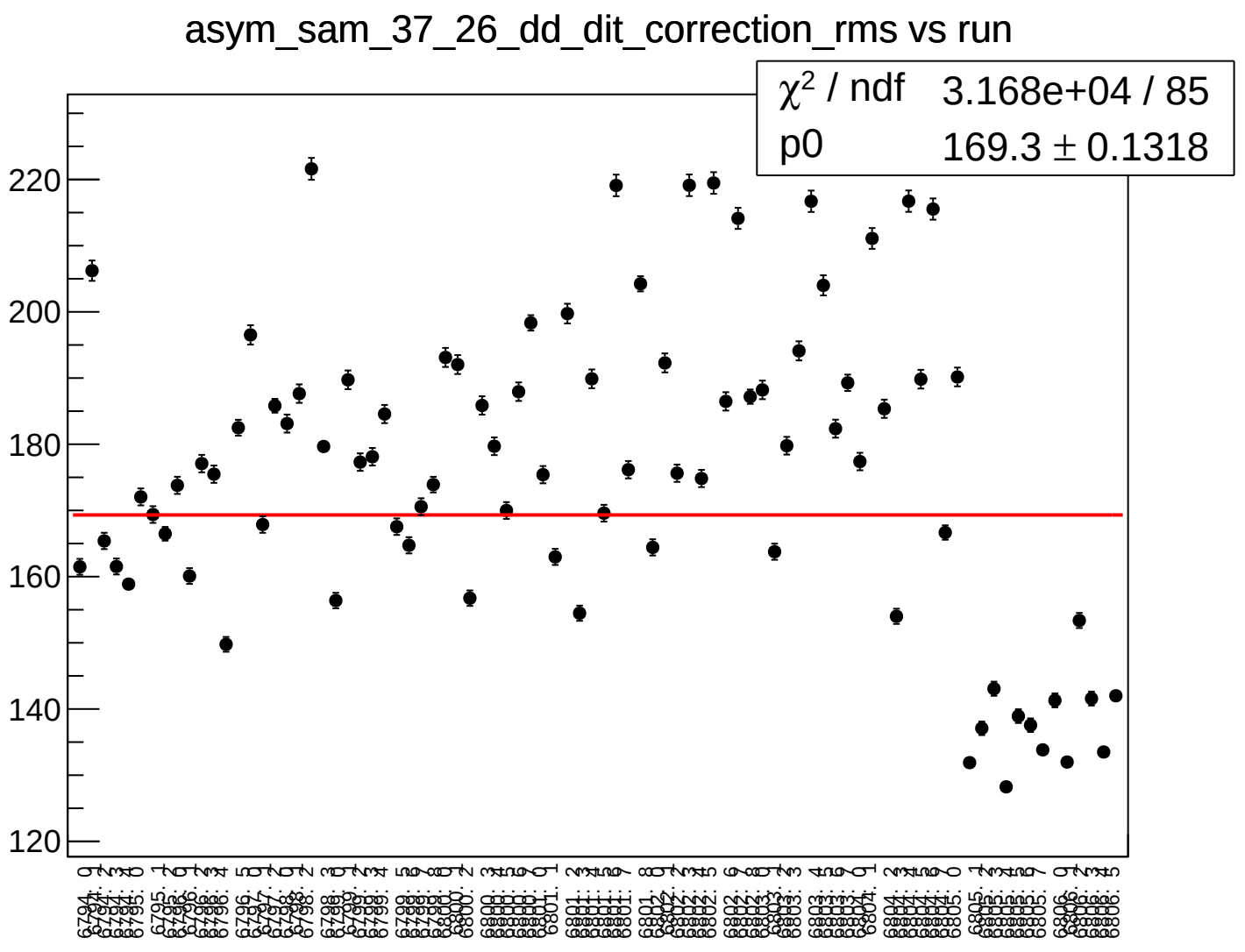

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.7 / 85
p0 3.719 ± 58.36
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −378.5
Std Dev 0
3
2
1
0
−1
−2

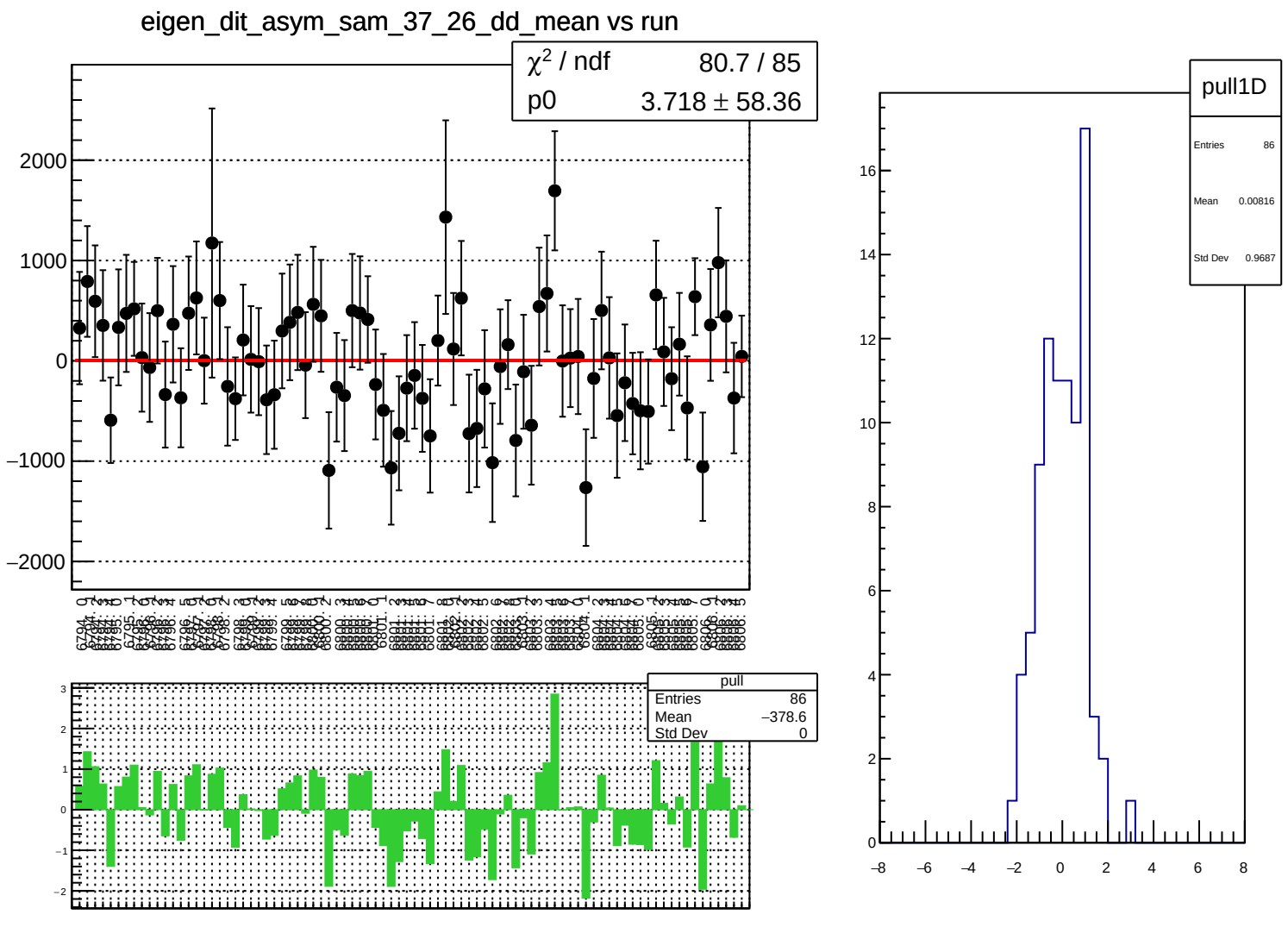

pull1D
Entries 86
Mean 0.008161
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

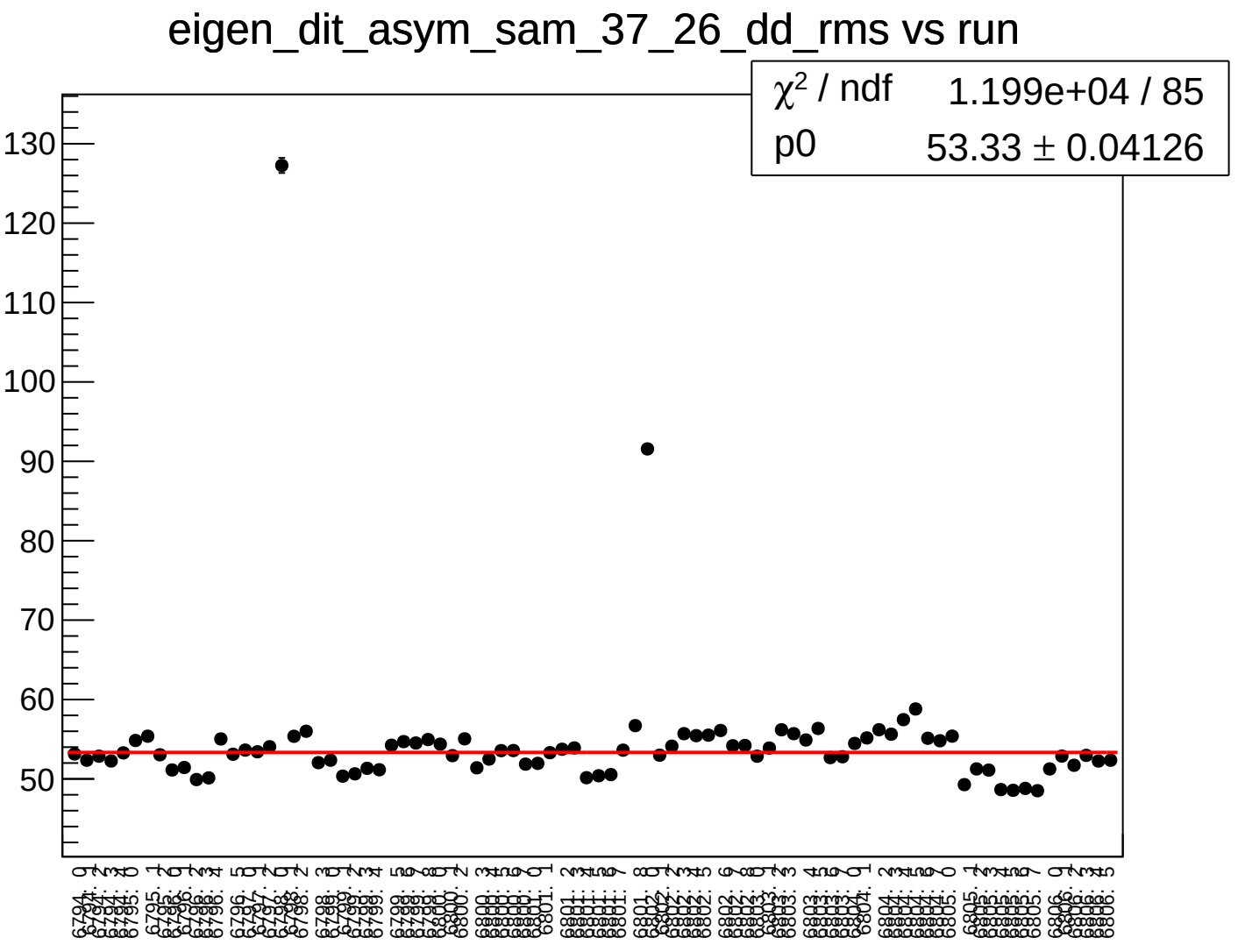

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.199e+04 / 85
p0 53.33 ± 0.04126
130
120
110
100
90
80
70
60
50

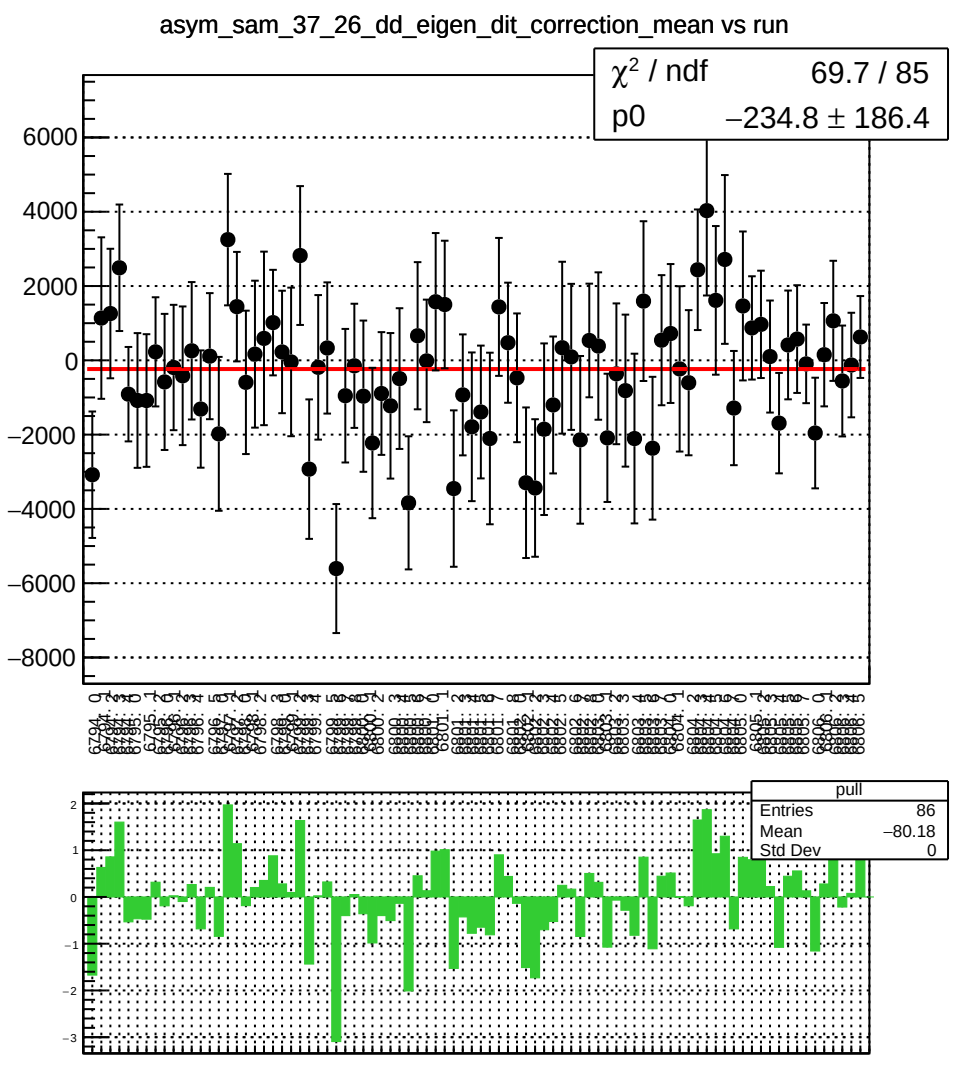

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 69.7 / 85
p0 −234.8 ± 186.4
pull
Entries 86
Mean −80.18
Std Dev 0

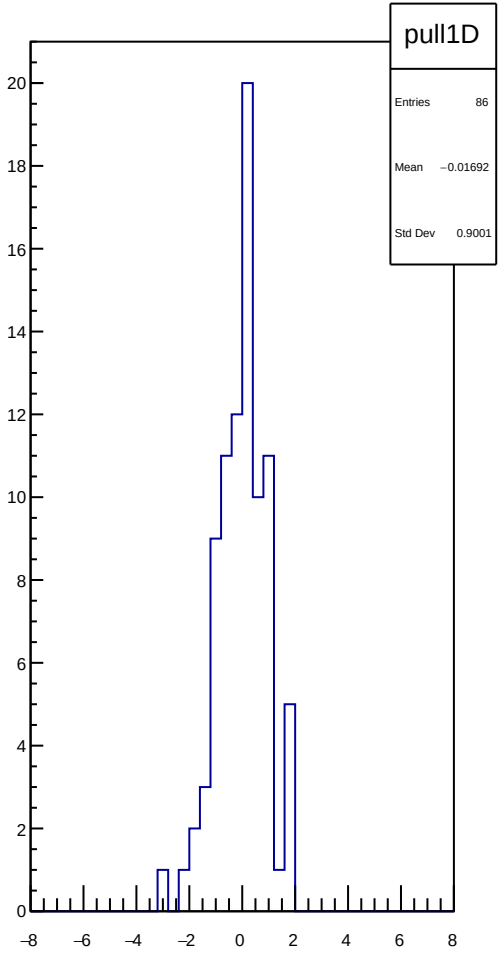

pull1D
Entries 86
Mean −0.01692
Std Dev 0.9001

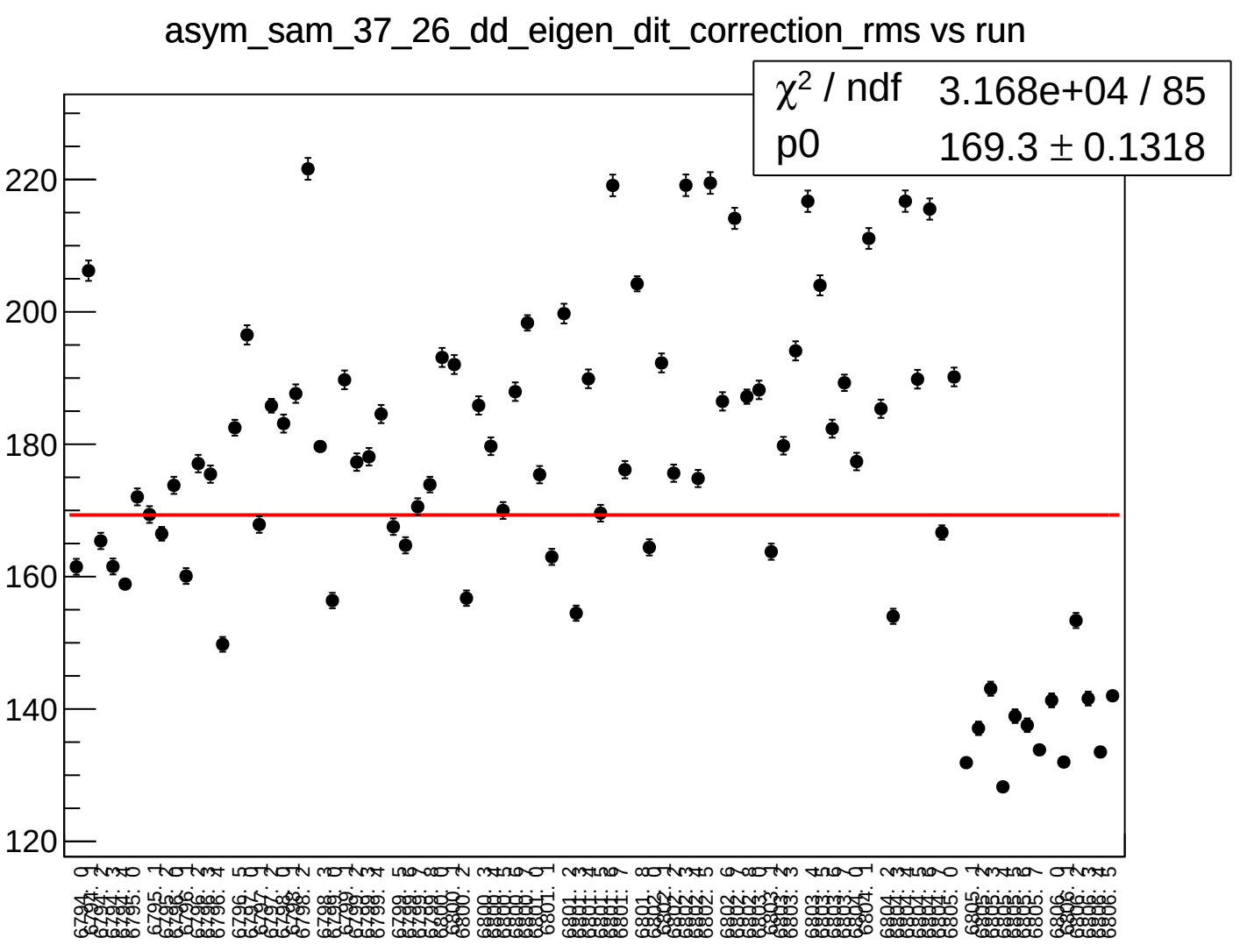

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 3.168e+04 / 85
p0 169.3 ± 0.1318
220
200
180
160
140
120

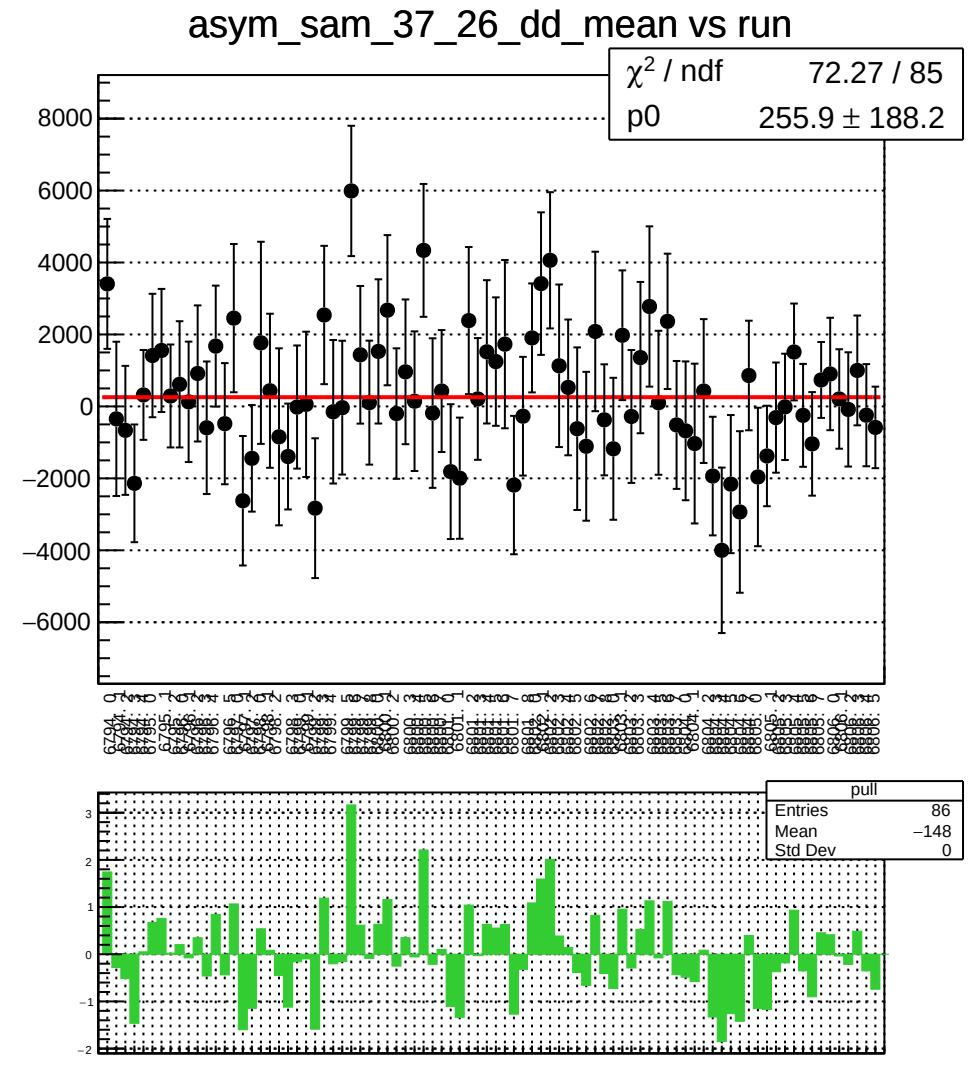

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 80.7 / 85
p0 3.718 ± 58.36
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −378.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.00816
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

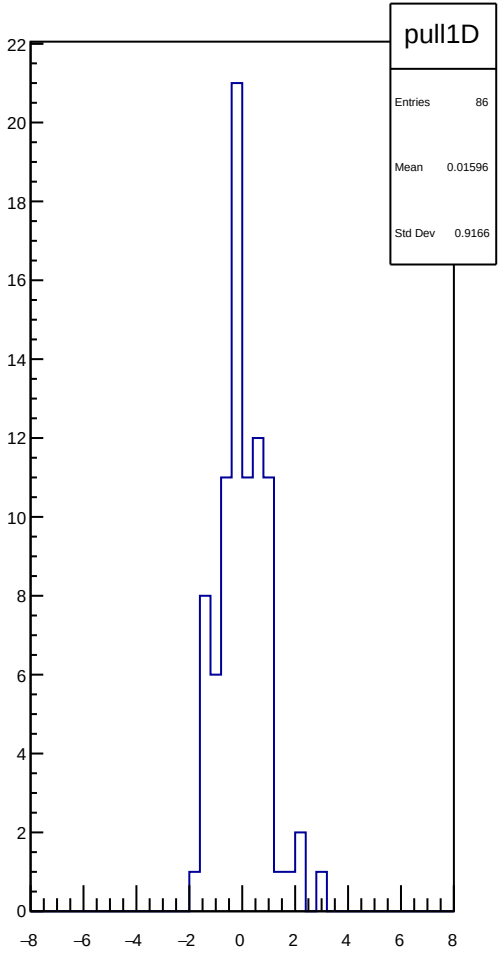

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.199e+04 / 85
p0 53.33 ± 0.04126
130
120
110
100
90
80
70
60
50

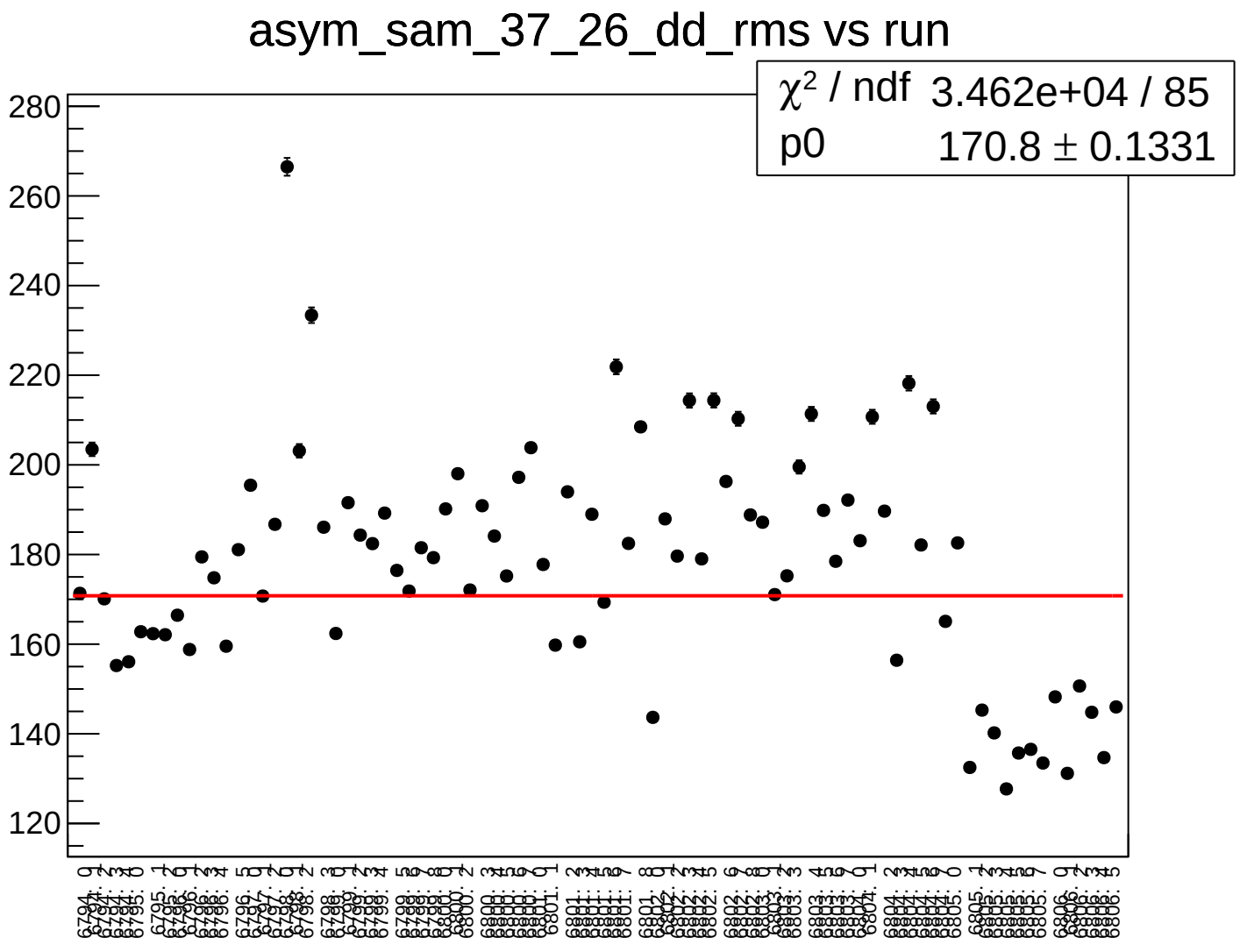

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.7 / 85
p0 −234.8 ± 186.4
pull
Entries 86
Mean −80.18
Std Dev 0

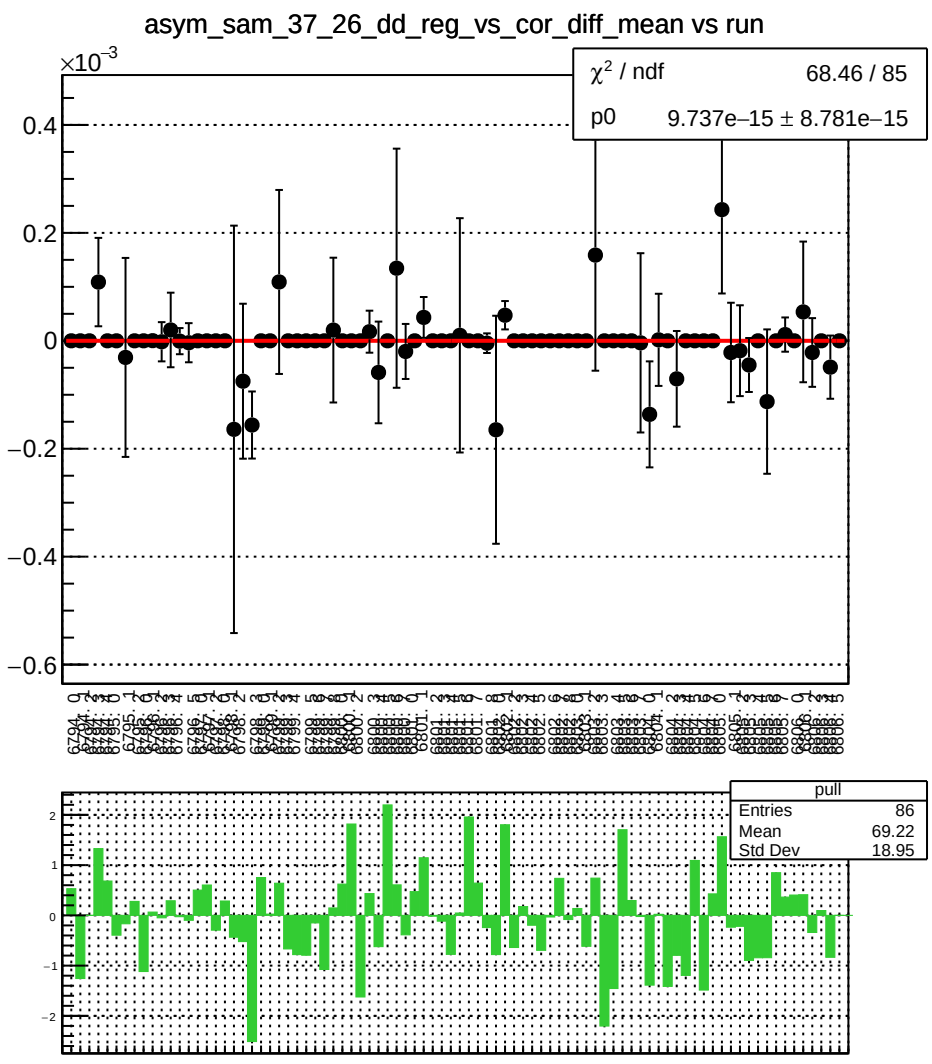

pull1D
Entries 86
Mean −0.01692
Std Dev 0.9001

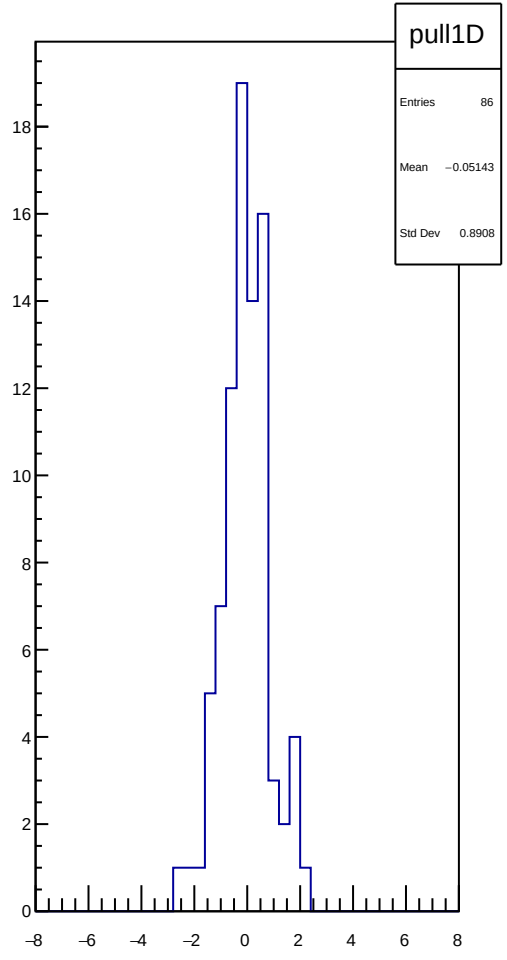

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.168e+04 / 85
p0 169.3 ± 0.1318
220
200
180
160
140
120

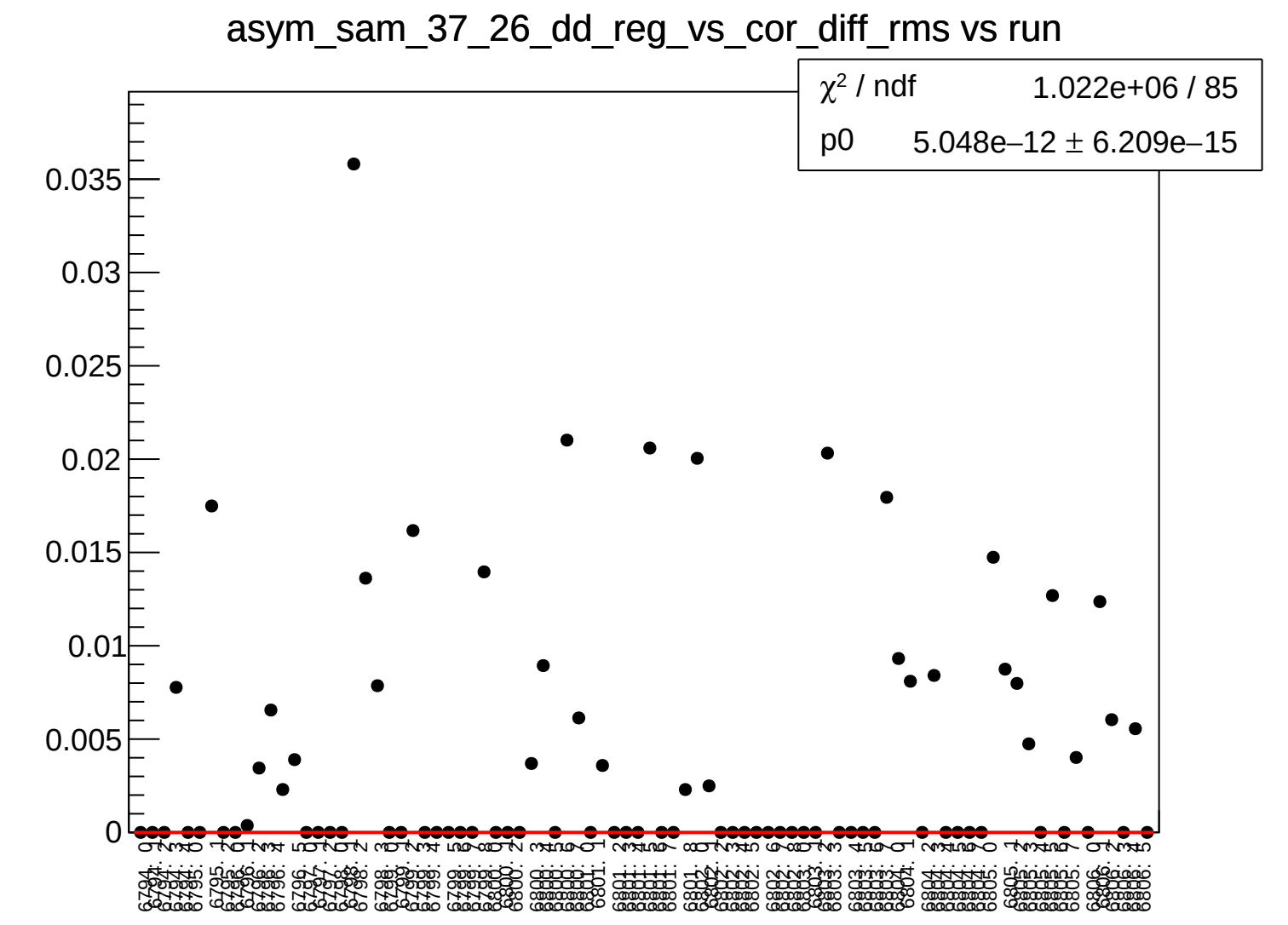

asym_sam_37_26_dd_mean vs run
χ² / ndf 72.27 / 85
p0 255.9 ± 188.2
pull
Entries 86
Mean −148
Std Dev 0

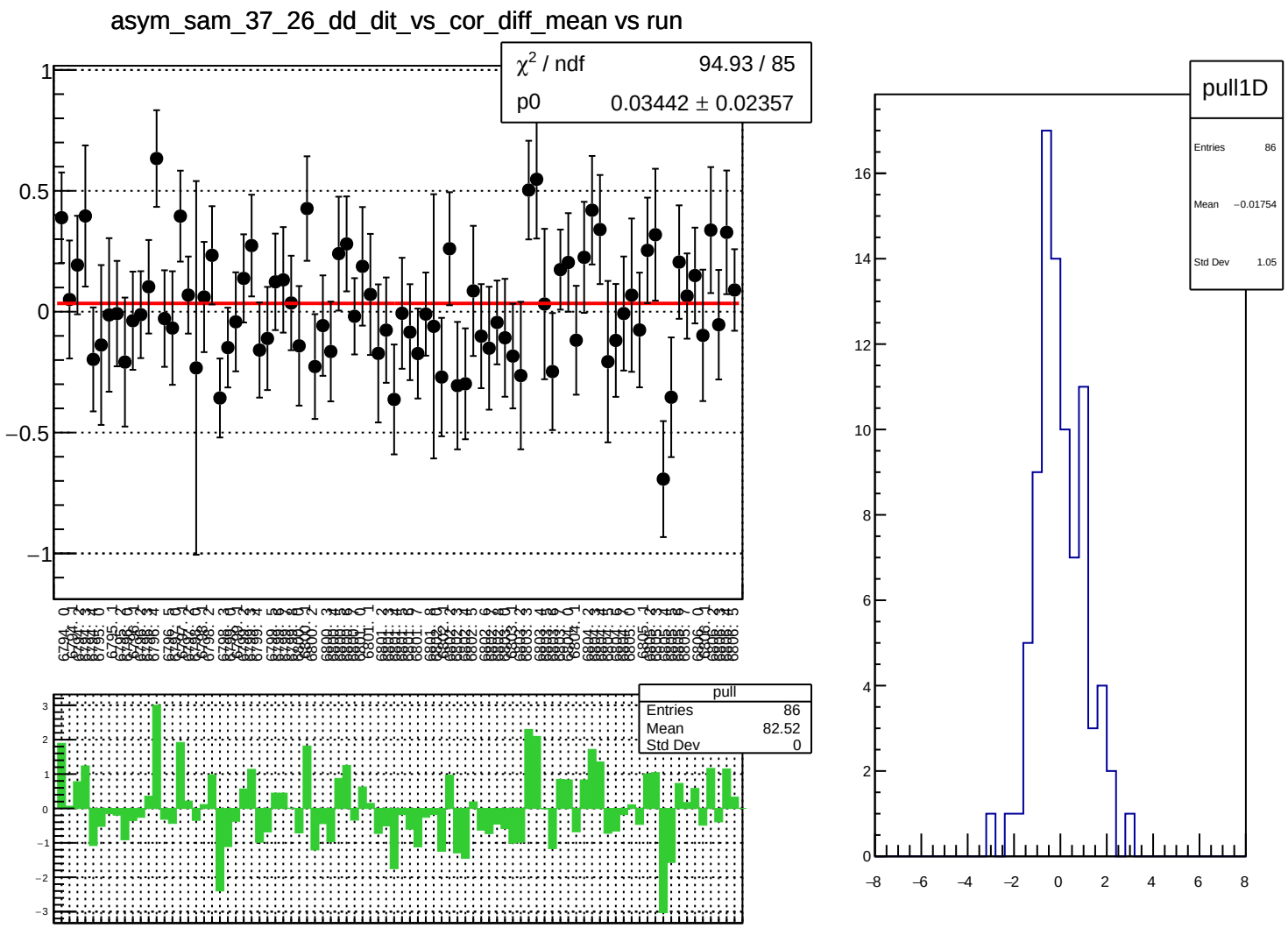

pull1D
Entries 86
Mean 0.01596
Std Dev 0.9166

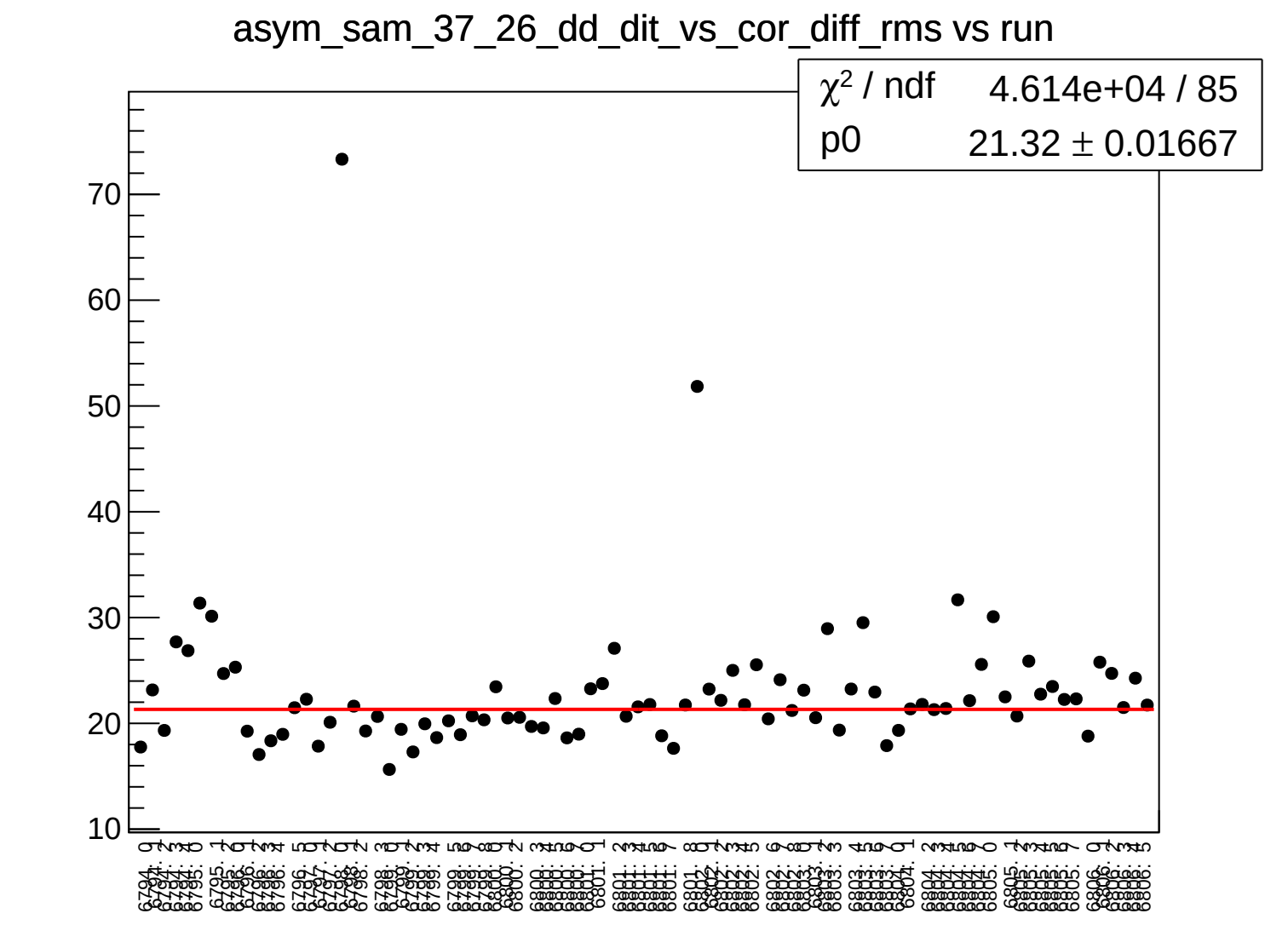

asym_sam_37_26_dd_rms vs run
χ² / ndf 3.462e+04 / 85
p0 170.8 ± 0.1331
280
260
240
220
200
180
160
140
120

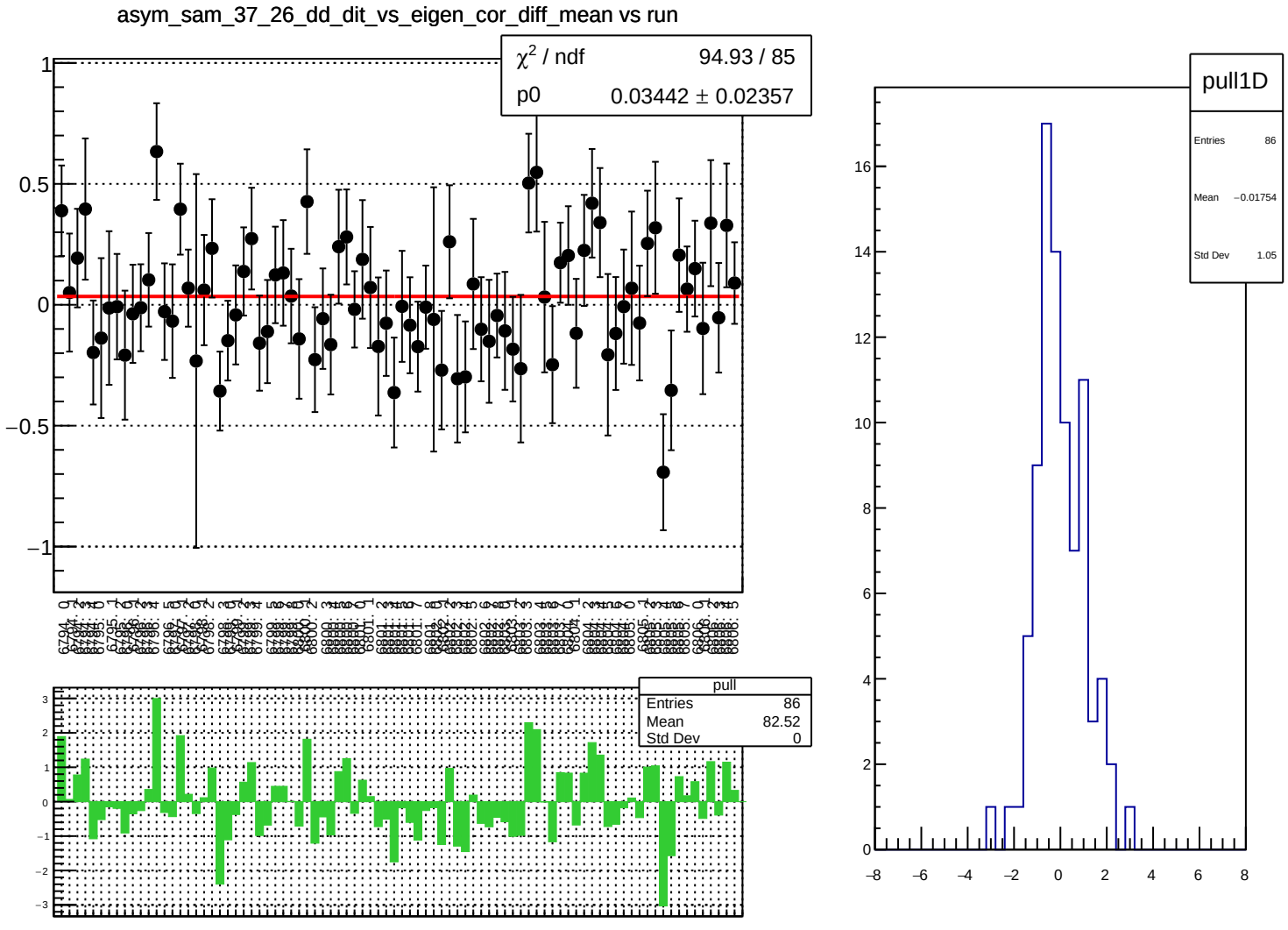

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 68.46 / 85
p0 9.737e−15 ± 8.781e−15
pull
Entries 86
Mean 69.22
Std Dev 18.95

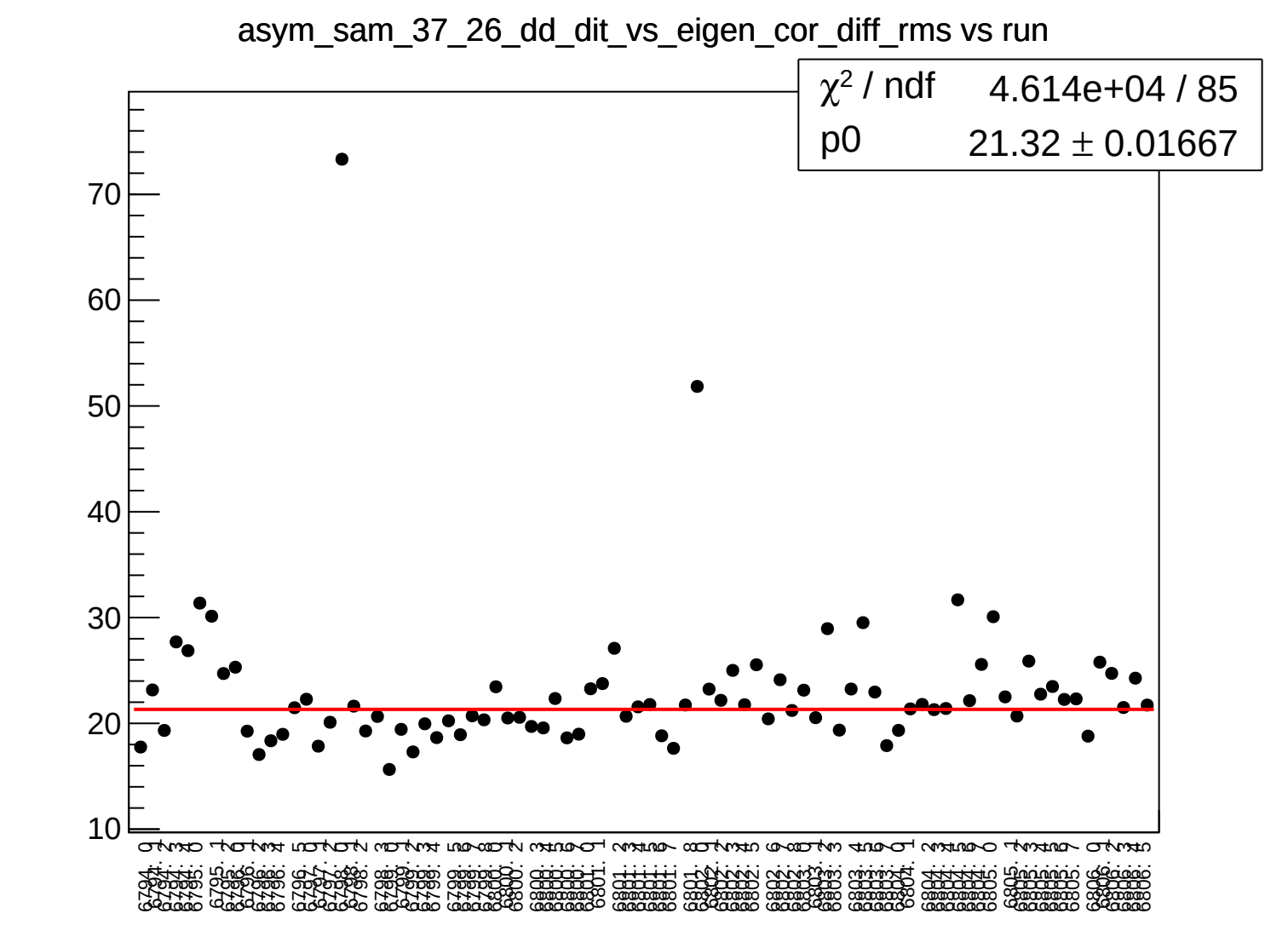

pull1D
Entries 86
Mean −0.05143
Std Dev 0.8908

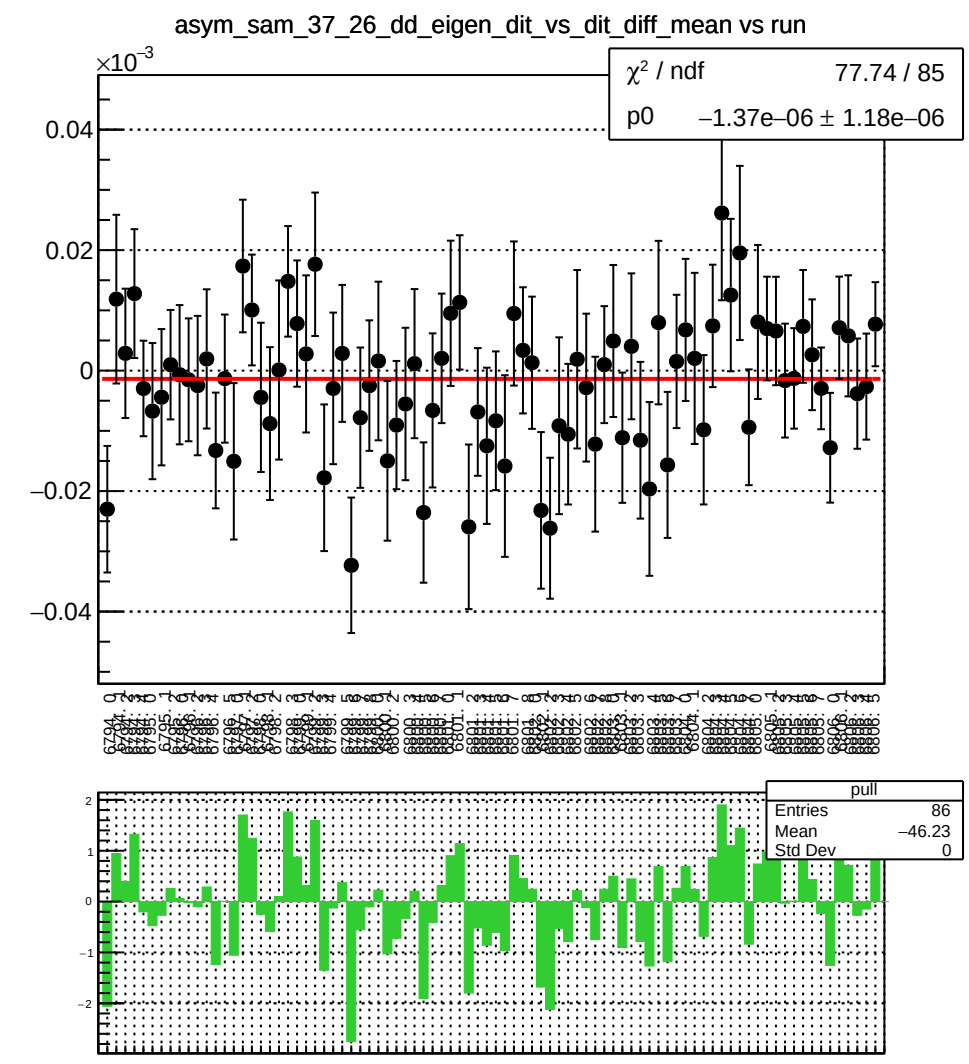

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 85
p0 5.048e−12 ± 6.209e−15
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

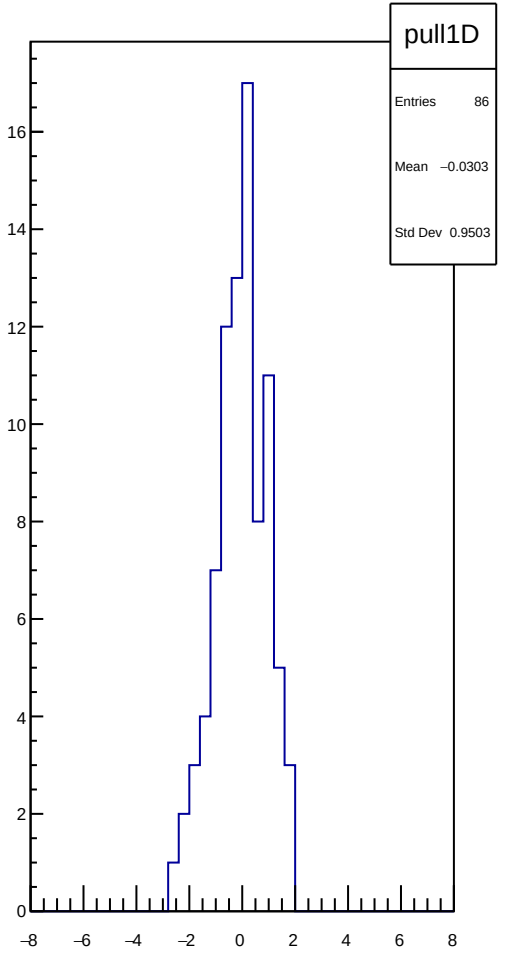

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.93 / 85
p0 0.03442 ± 0.02357
pull
Entries 86
Mean 82.52
Std Dev 0
pull1D
Entries 86
Mean −0.01754
Std Dev 1.05

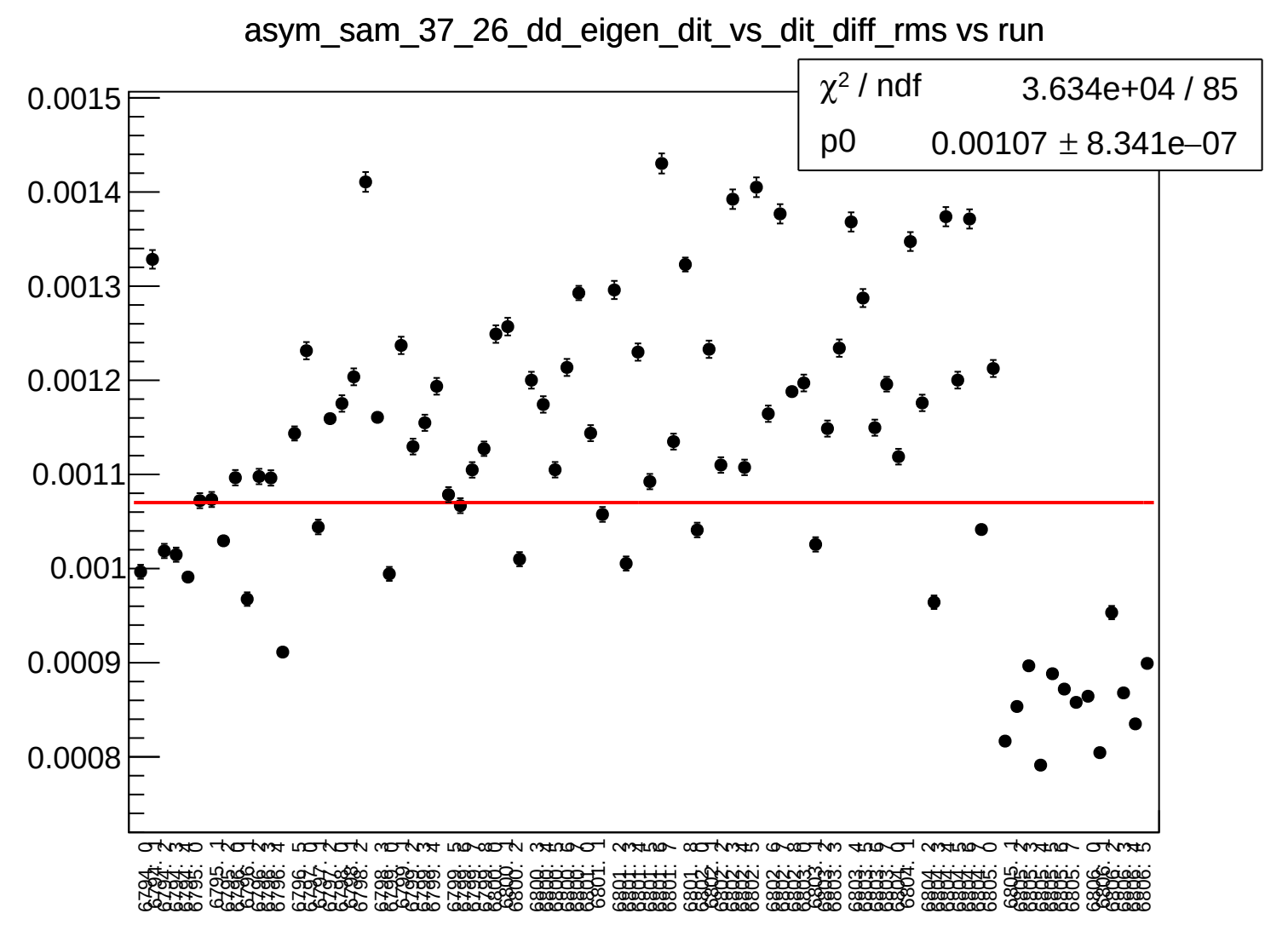

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.614e+04 / 85
p0 21.32 ± 0.01667
70
60
50
40
30
20
10

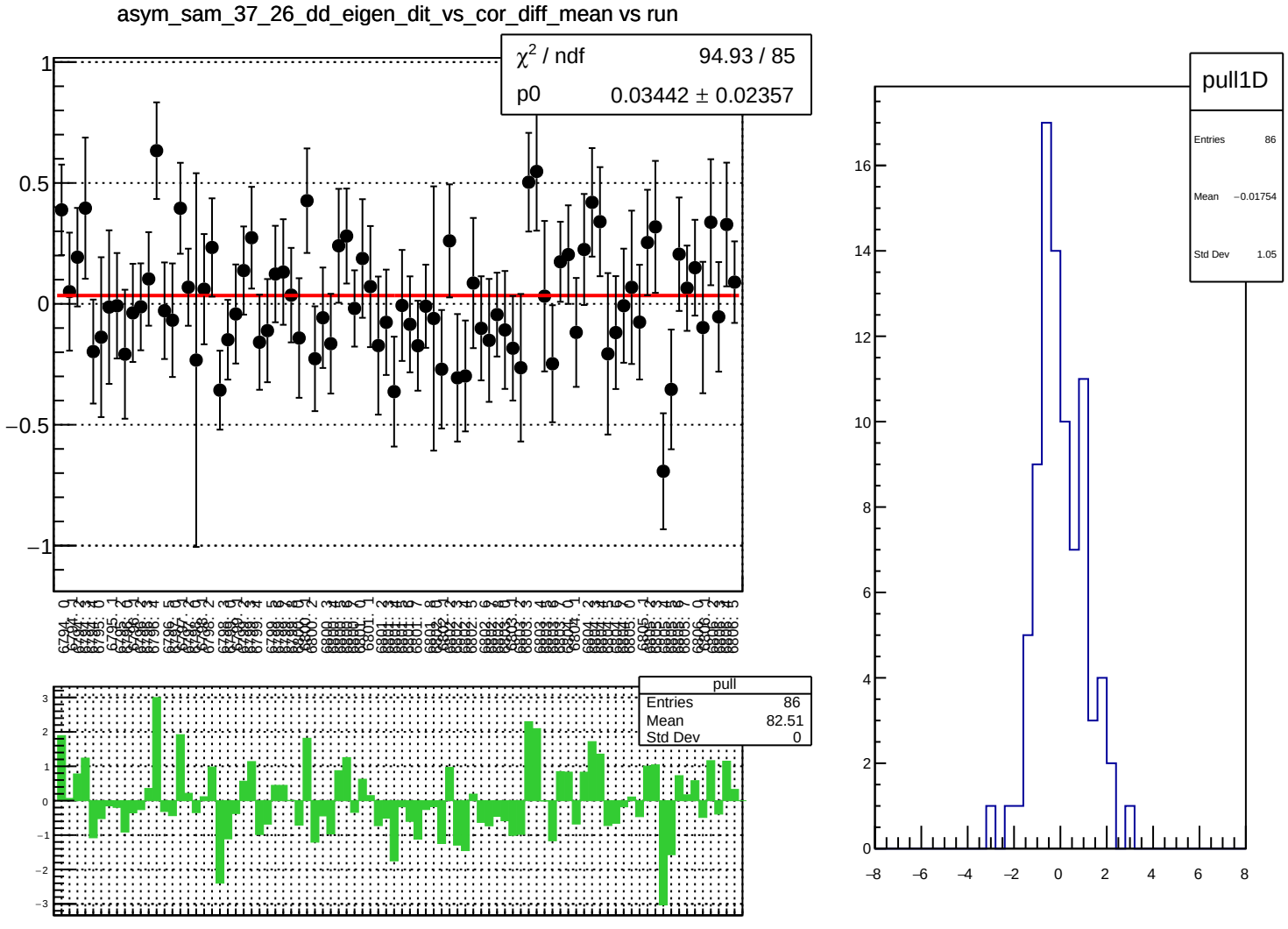

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.93 / 85
p0 0.03442 ± 0.02357
pull
Entries 86
Mean 82.52
Std Dev 0
pull1D
Entries 86
Mean −0.01754
Std Dev 1.05

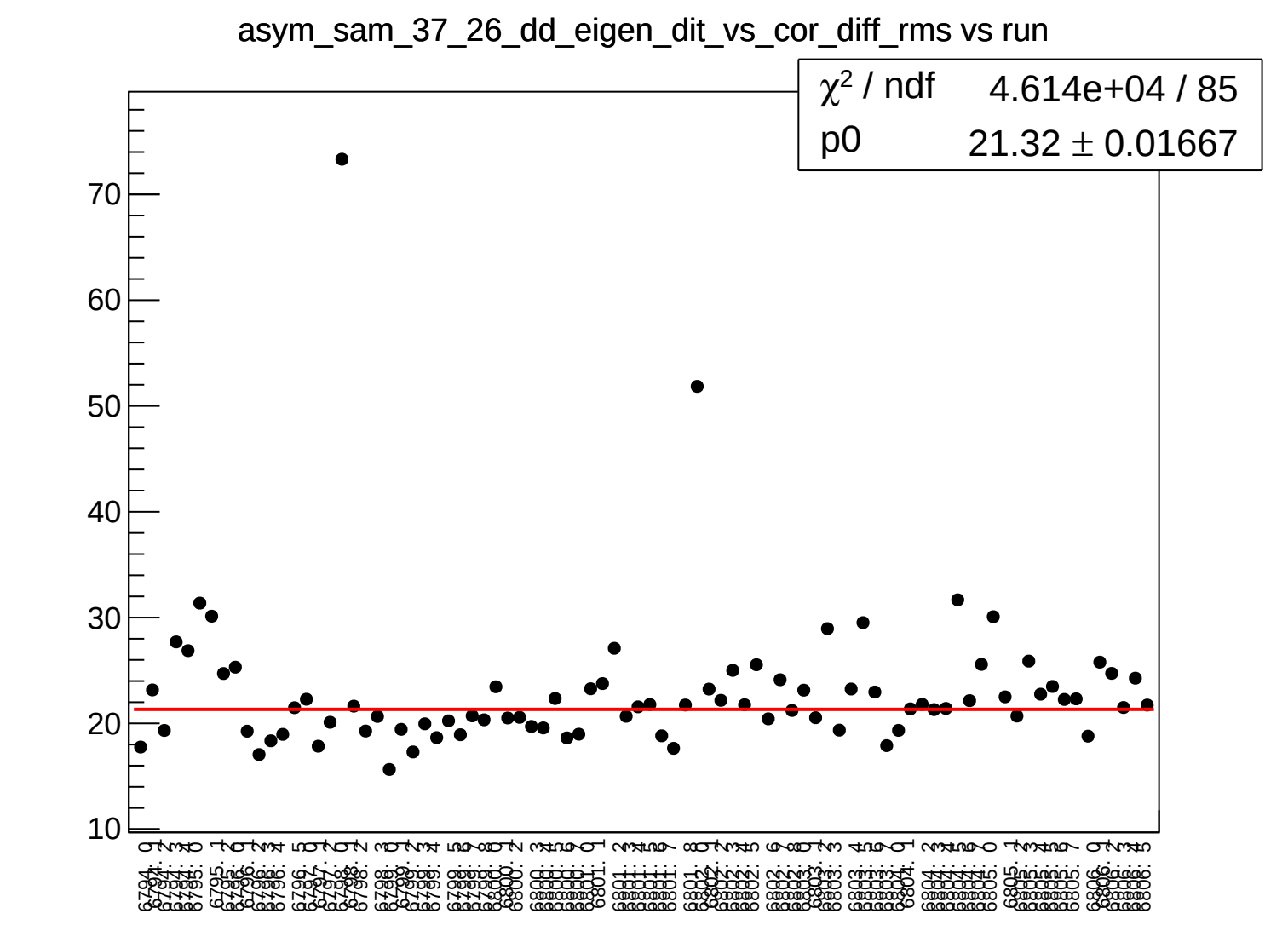

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.614e+04 / 85
p0 21.32 ± 0.01667
70
60
50
40
30
20
10

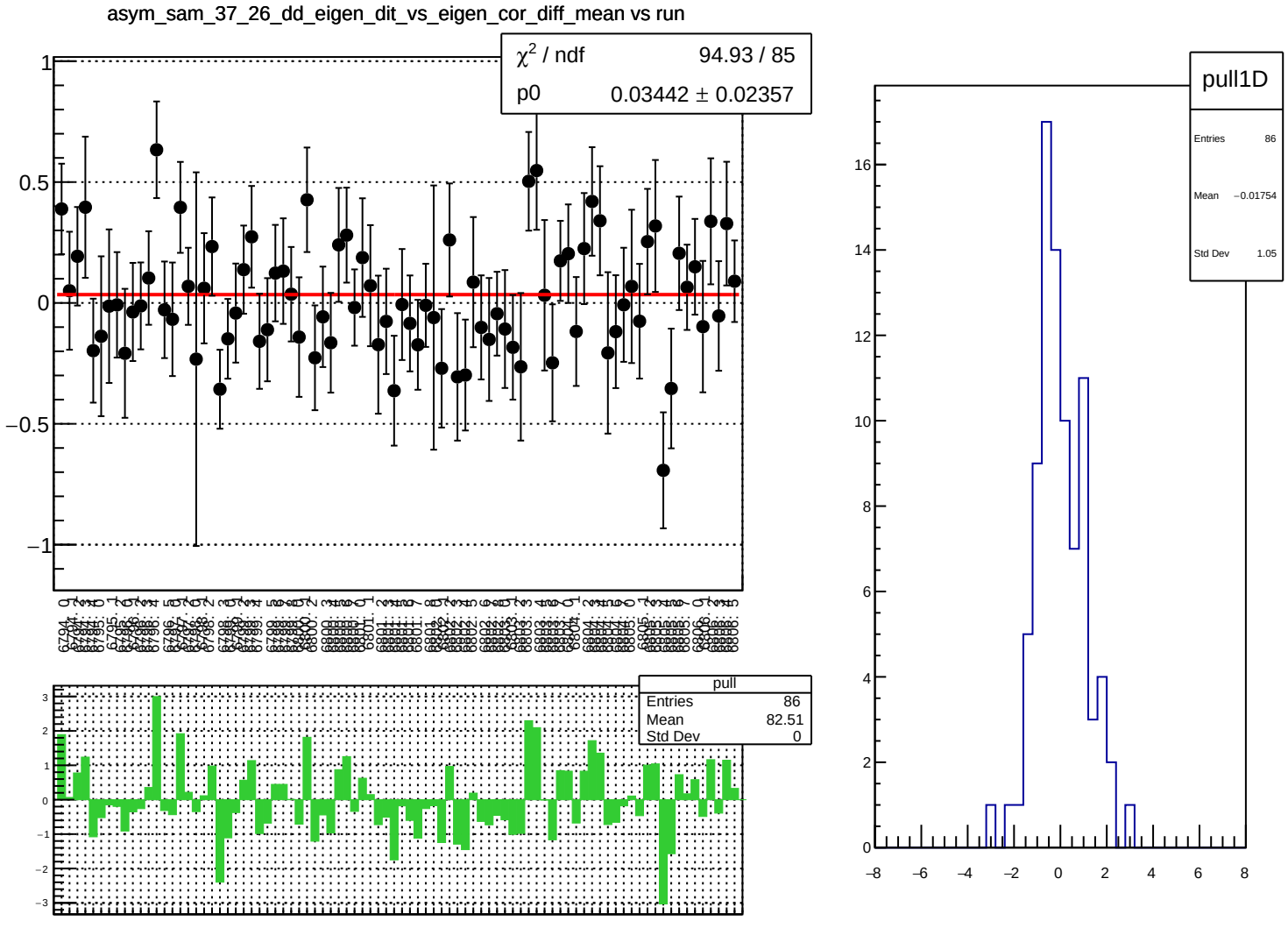

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.74 / 85
p0 −1.37e−06 ± 1.18e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 86
Mean −46.23
Std Dev 0

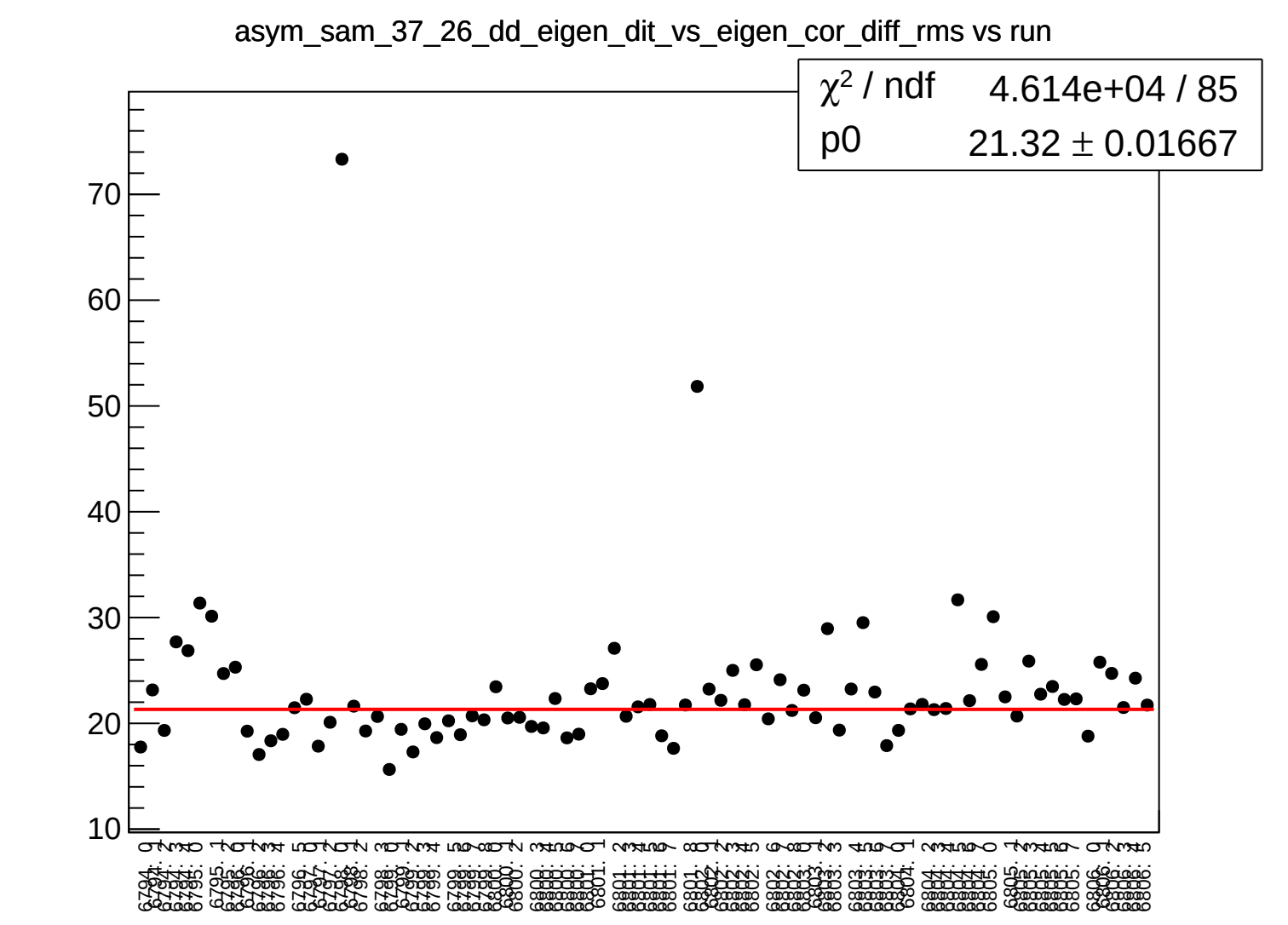

pull1D
Entries 86
Mean −0.0303
Std Dev 0.9503
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

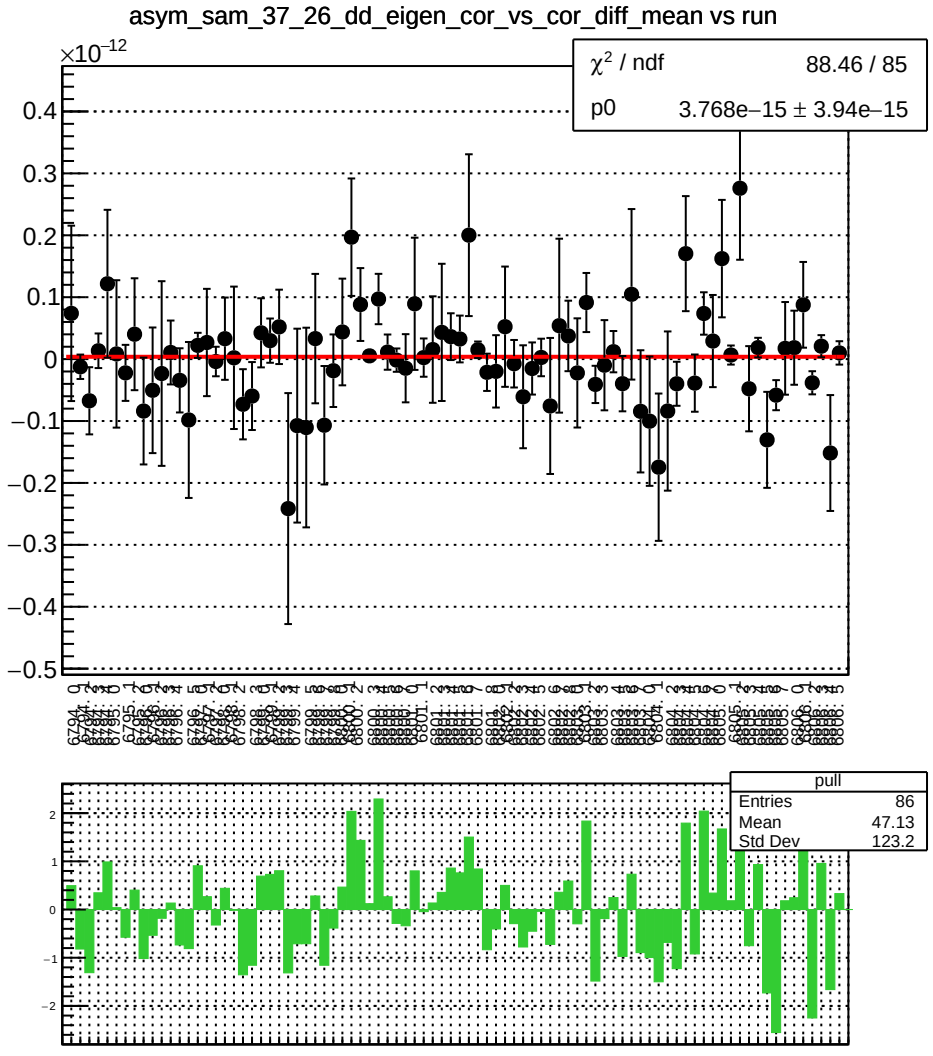

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.634e+04 / 85
p0 0.00107 ± 8.341e–07
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008

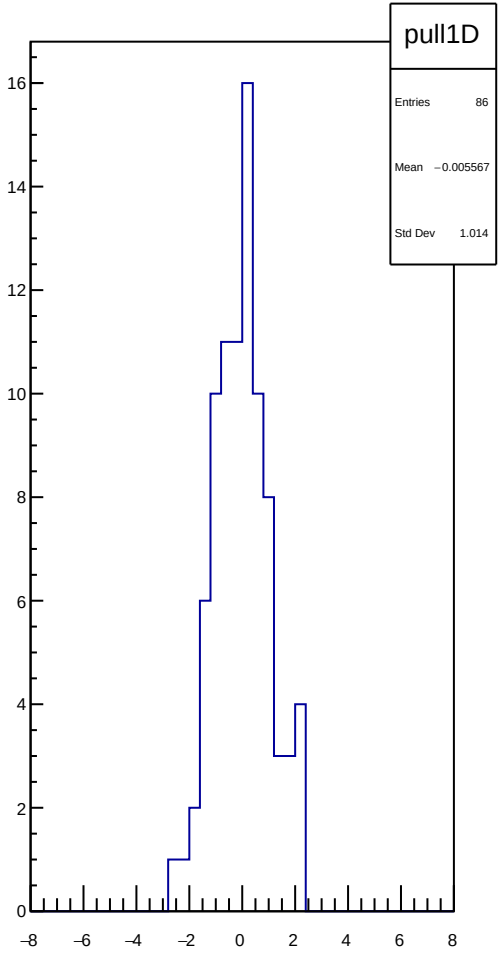

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.93 / 85
p0 0.03442 ± 0.02357
pull
Entries 86
Mean 82.51
Std Dev 0
pull1D
Entries 86
Mean −0.01754
Std Dev 1.05

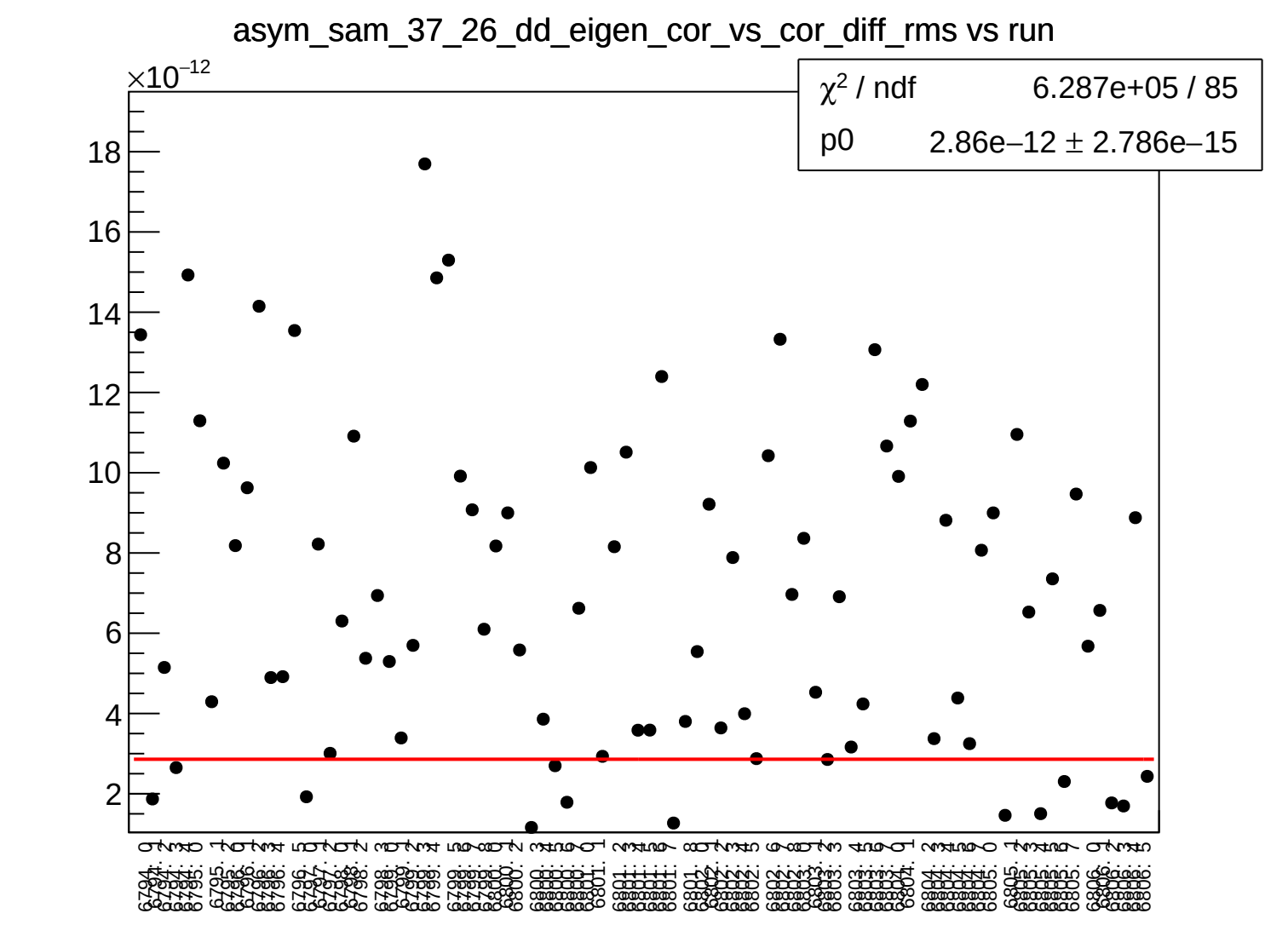

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 4.614e+04 / 85
p0 21.32 ± 0.01667
70
60
50
40
30
20
10

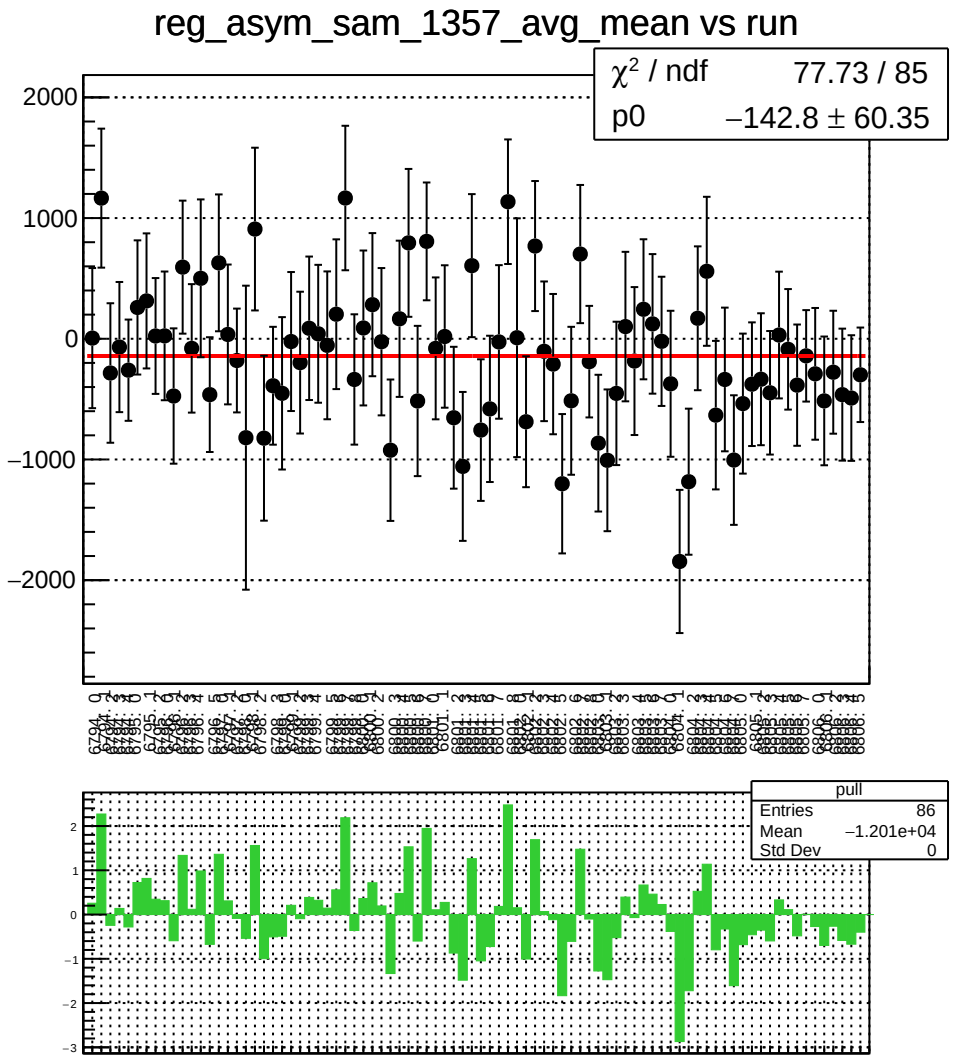

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.93 / 85
p0 0.03442 ± 0.02357
pull
Entries 86
Mean 82.51
Std Dev 0
pull1D
Entries 86
Mean −0.01754
Std Dev 1.05

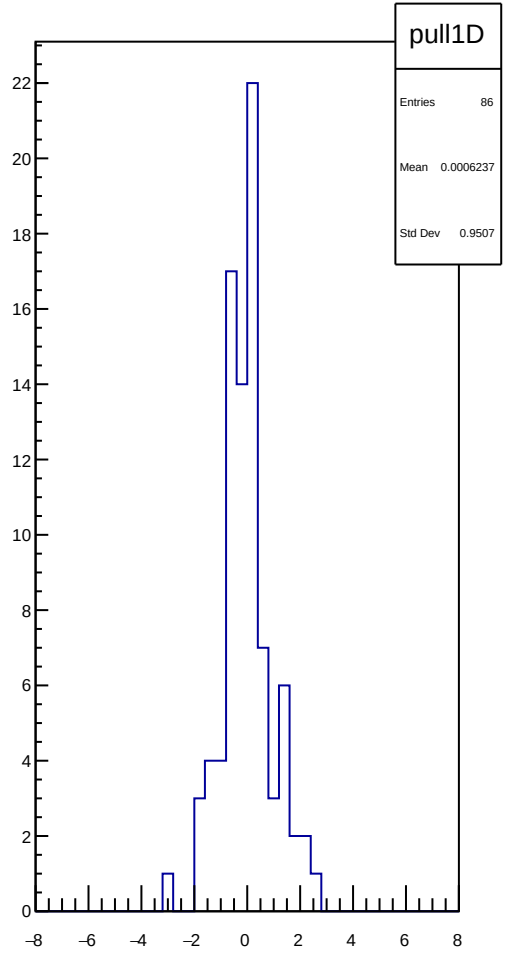

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.614e+04 / 85
p0 21.32 ± 0.01667
70
60
50
40
30
20
10

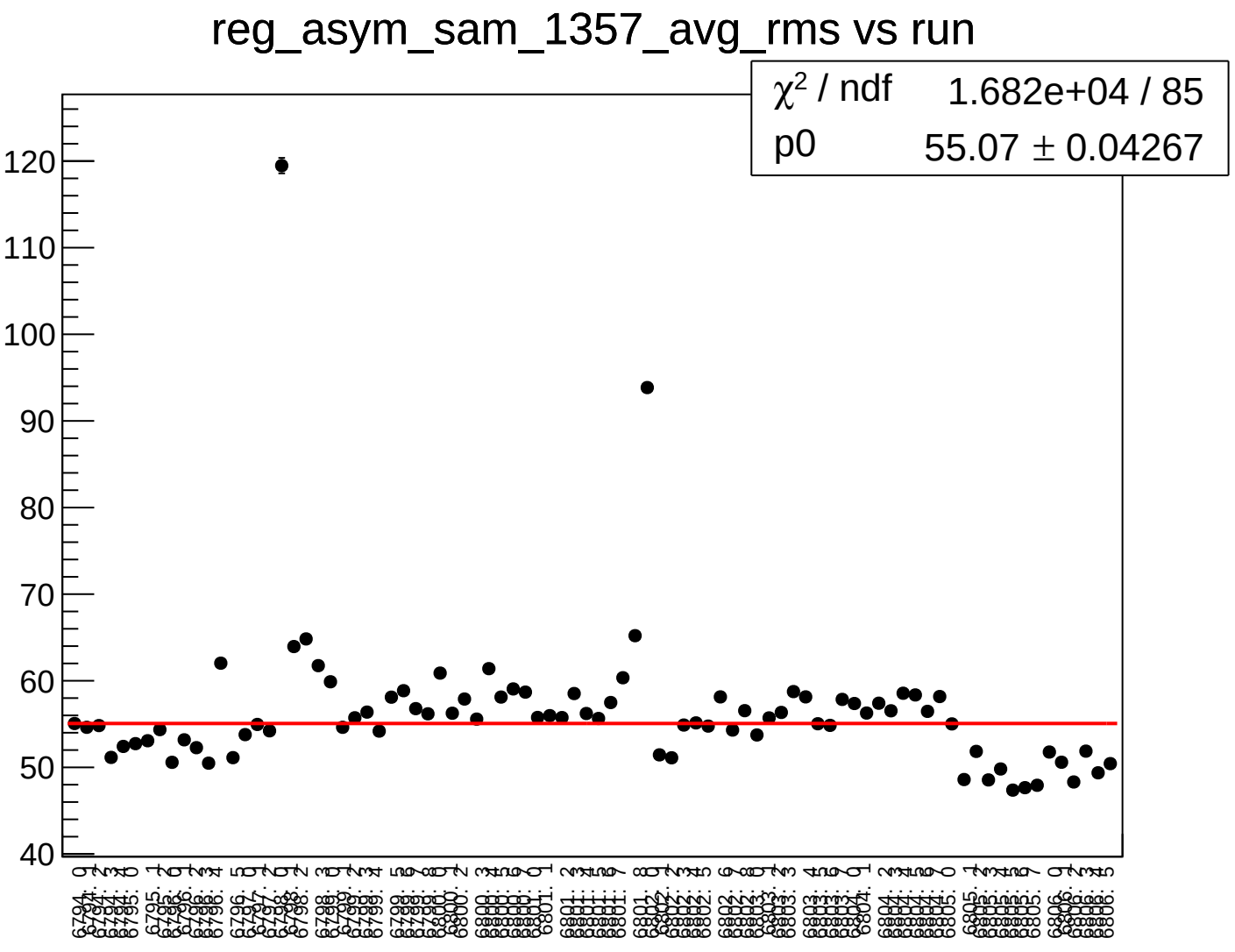

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.46 / 85
p0 3.768e−15 ± 3.94e−15
pull
Entries 86
Mean 47.13
Std Dev 123.2

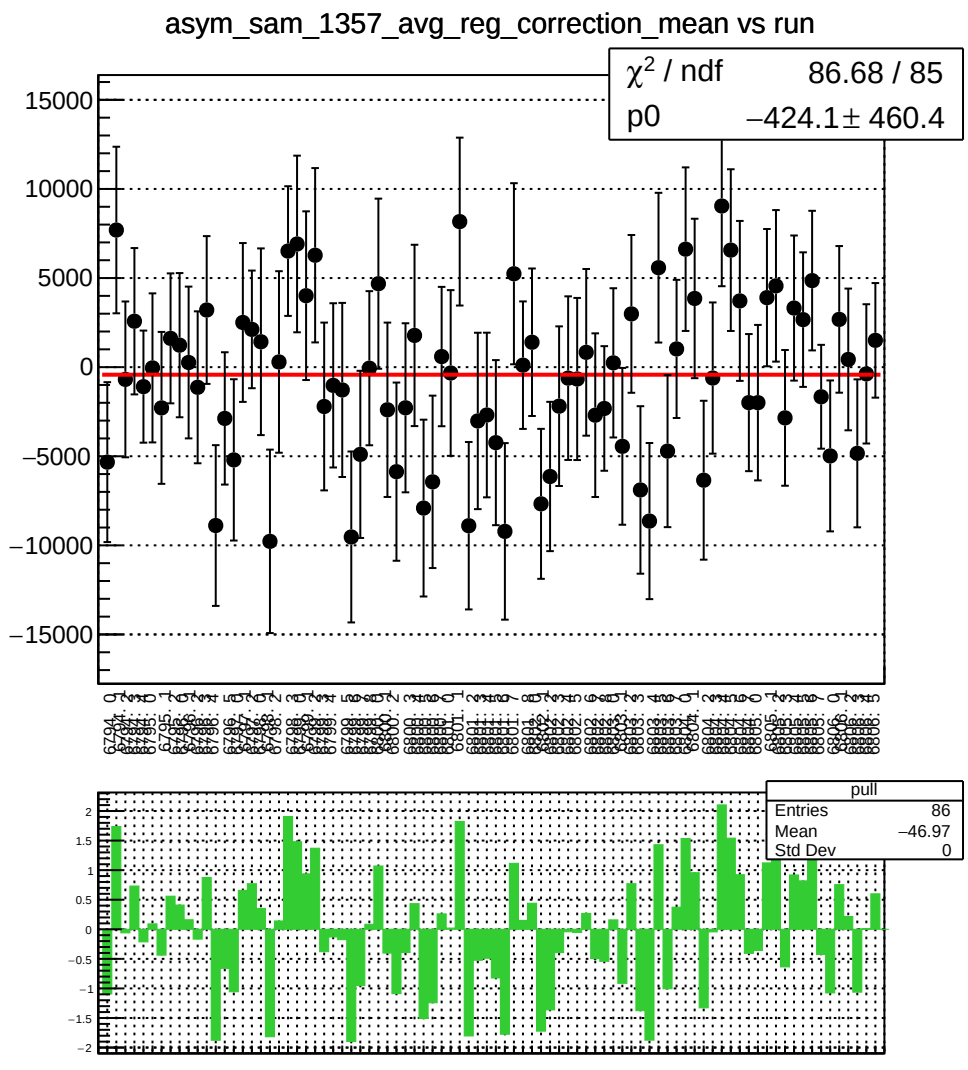

pull1D
Entries 86
Mean −0.005567
Std Dev 1.014

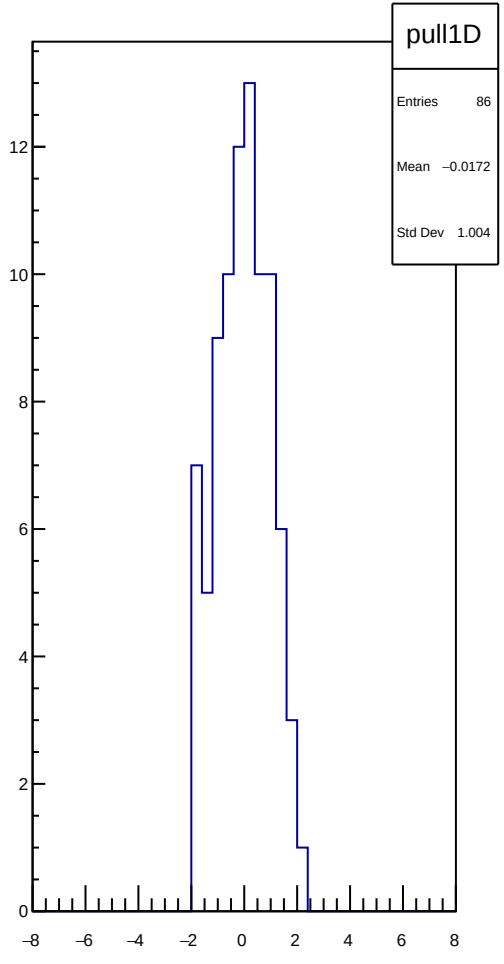

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.287e+05 / 85
p0 2.86e−12 ± 2.786e−15
18
16
14
12
10
8
6
4
2

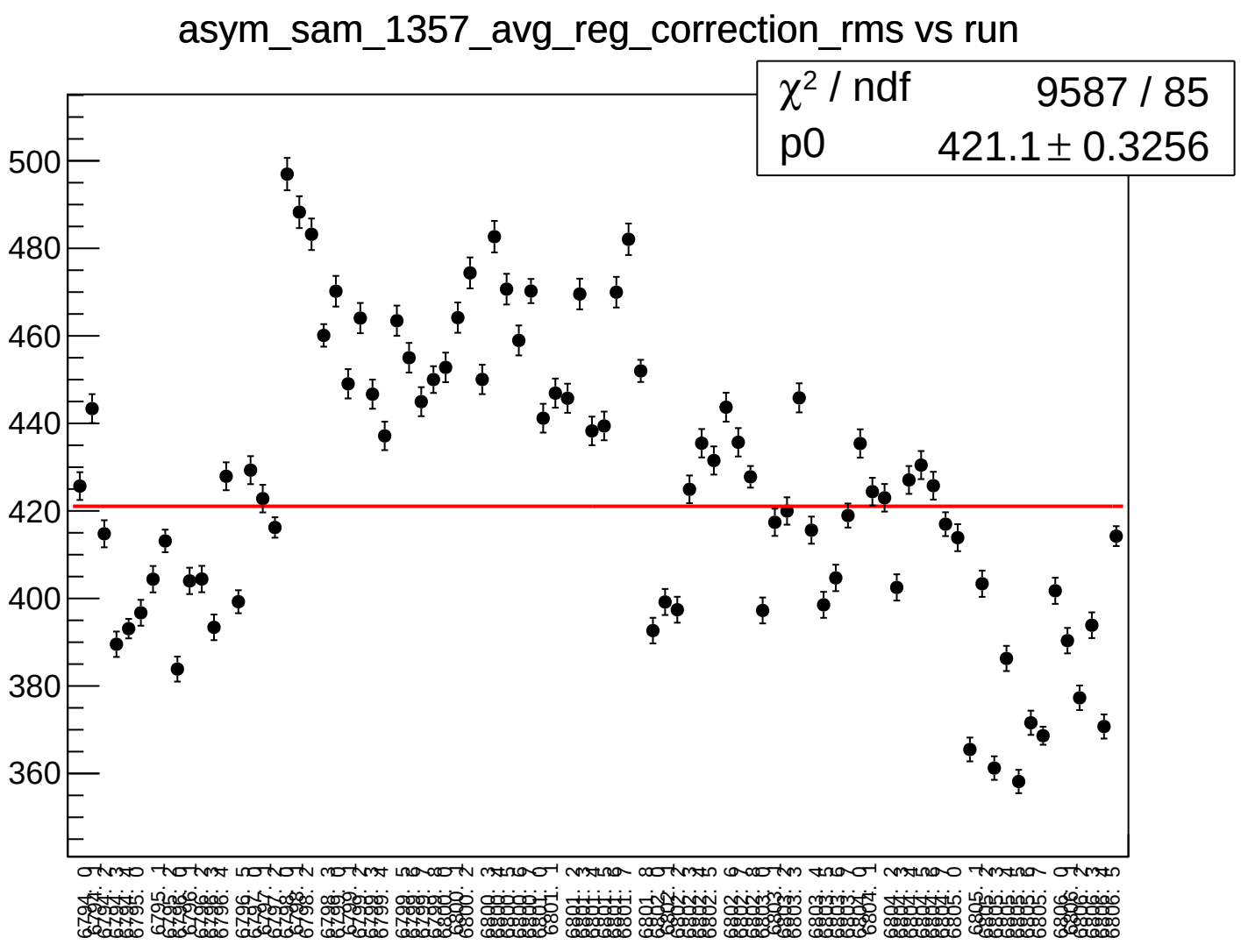

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 77.73 / 85
p0 −142.8 ± 60.35
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.201e+04
Std Dev 0
2
1
0
−1
−2
−3

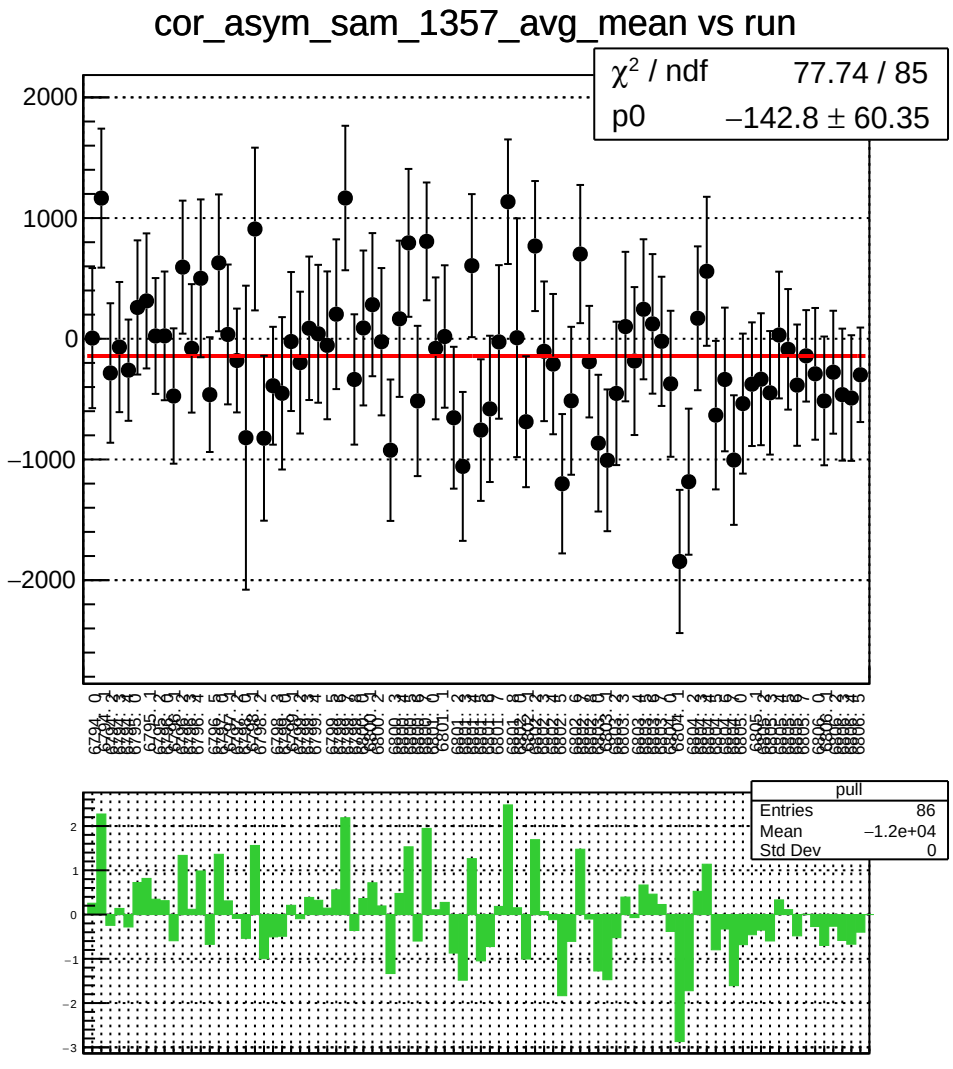

pull1D
Entries 86
Mean 0.0006237
Std Dev 0.9507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

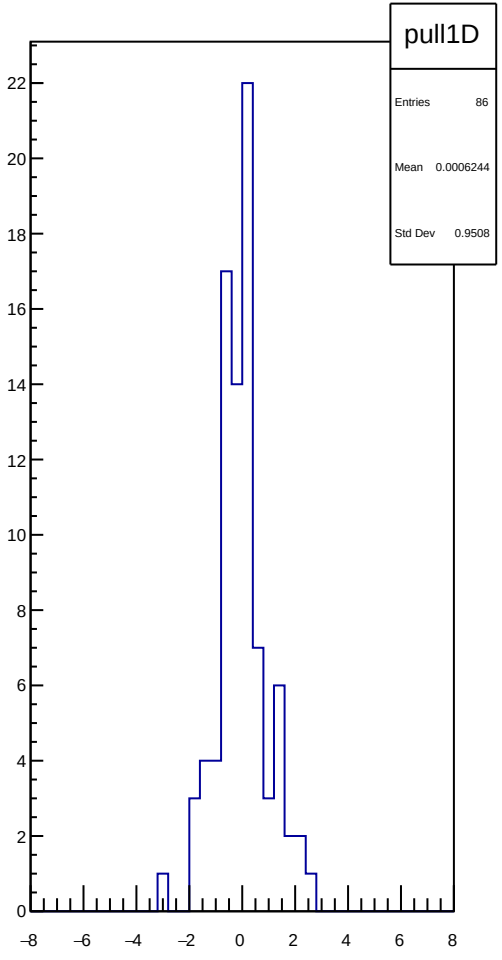

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.682e+04 / 85
p0 55.07 ± 0.04267
120
110
100
90
80
70
60
50
40

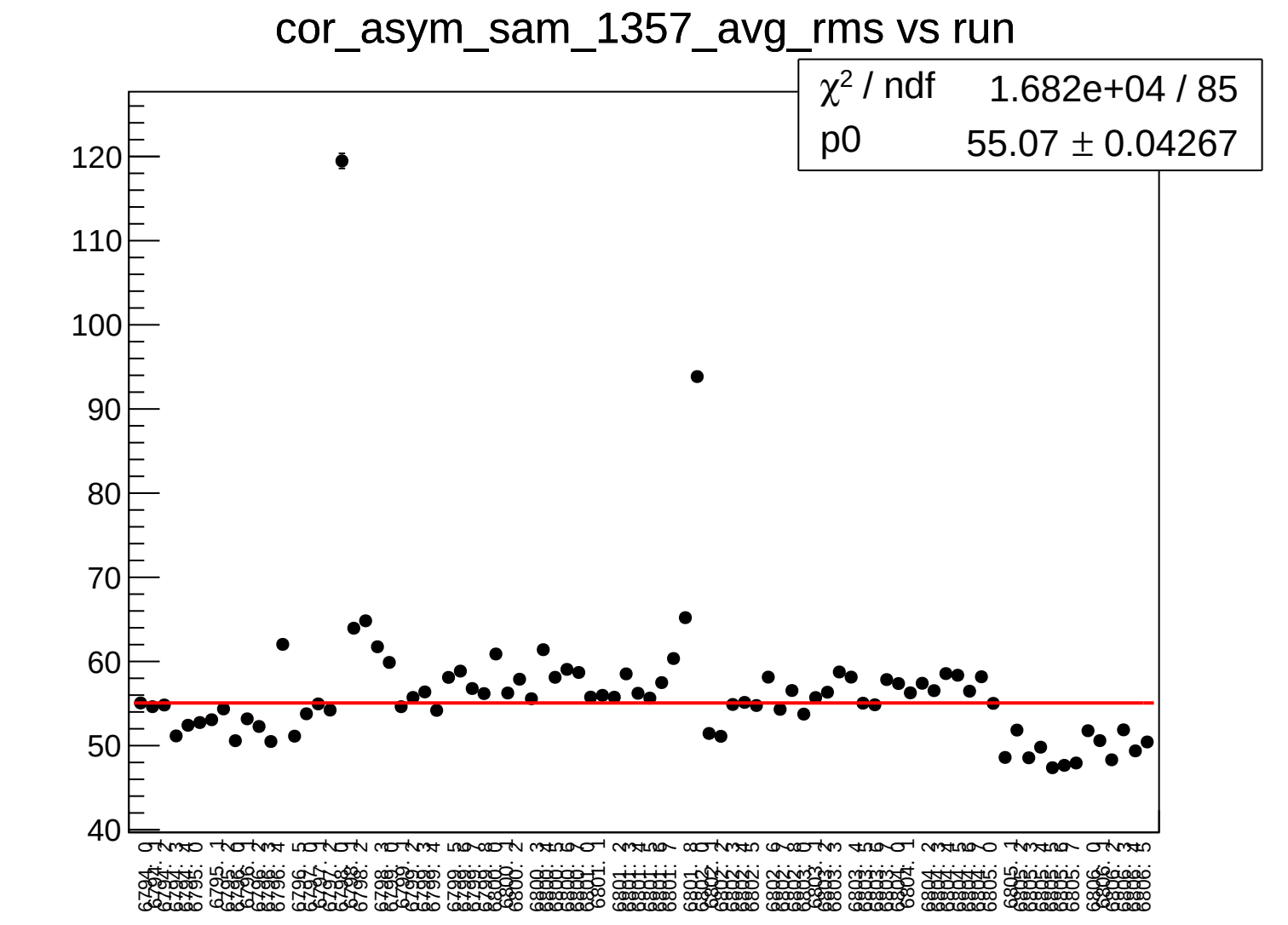

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 86.68 / 85
p0 −424.1± 460.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −46.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

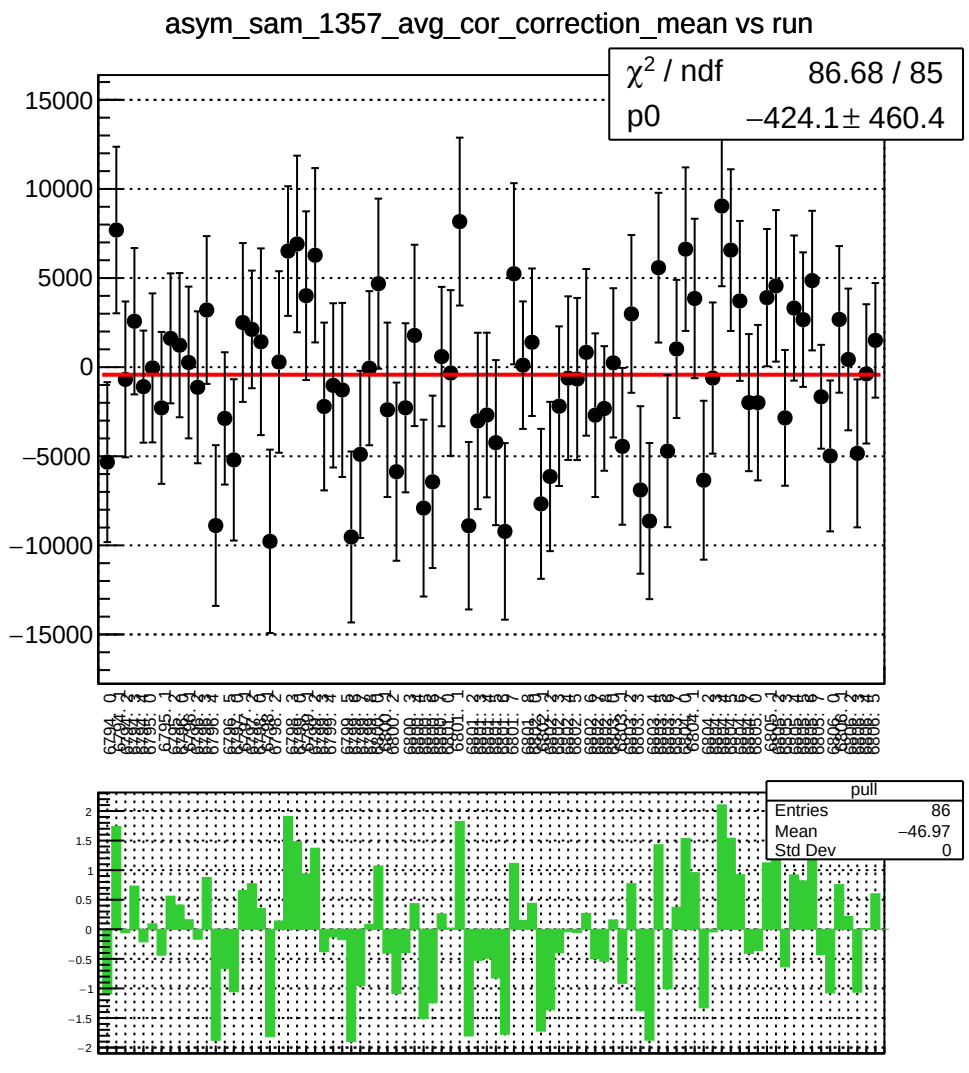

pull1D
Entries 86
Mean −0.0172
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

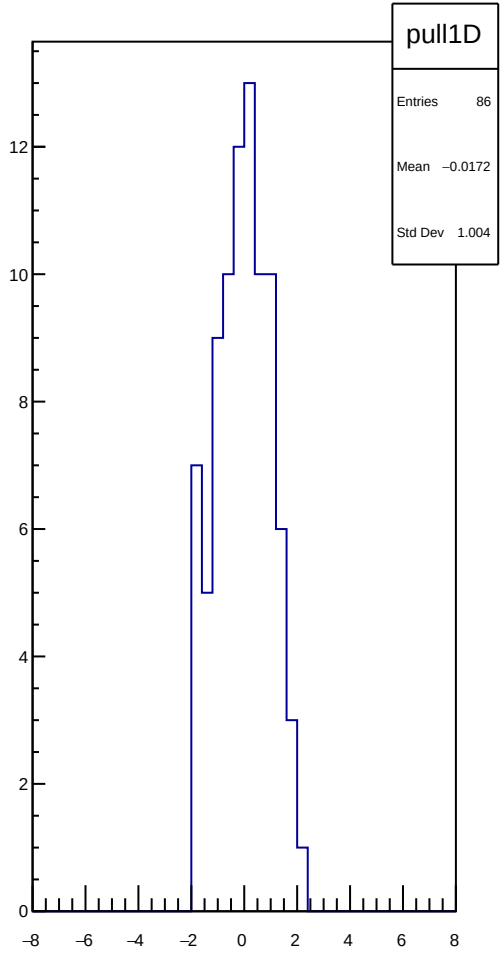

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 9587 / 85
p0 421.1 ± 0.3256
500
480
460
440
420
400
380
360

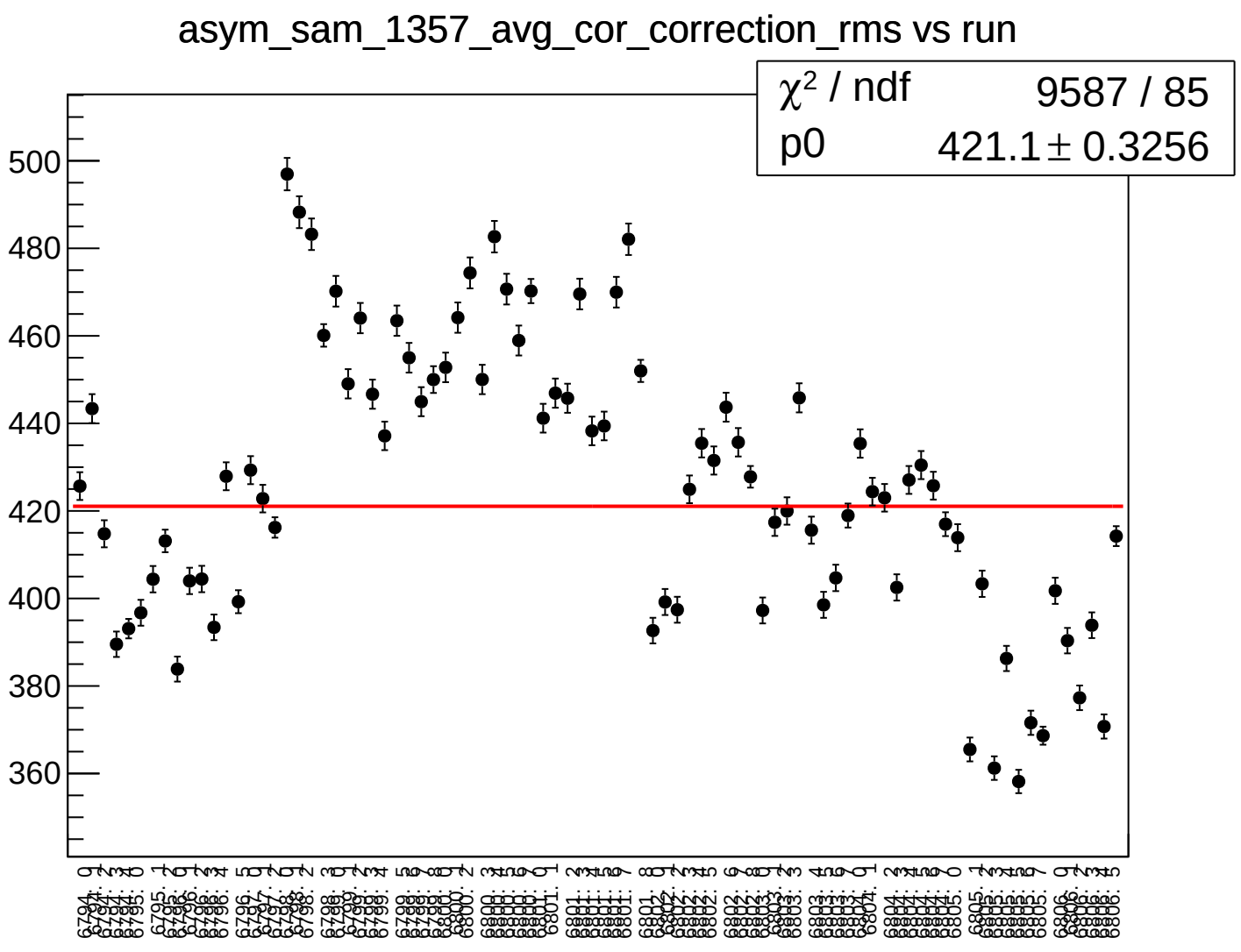

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 77.74 / 85
p0 −142.8 ± 60.35
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.2e+04
Std Dev 0

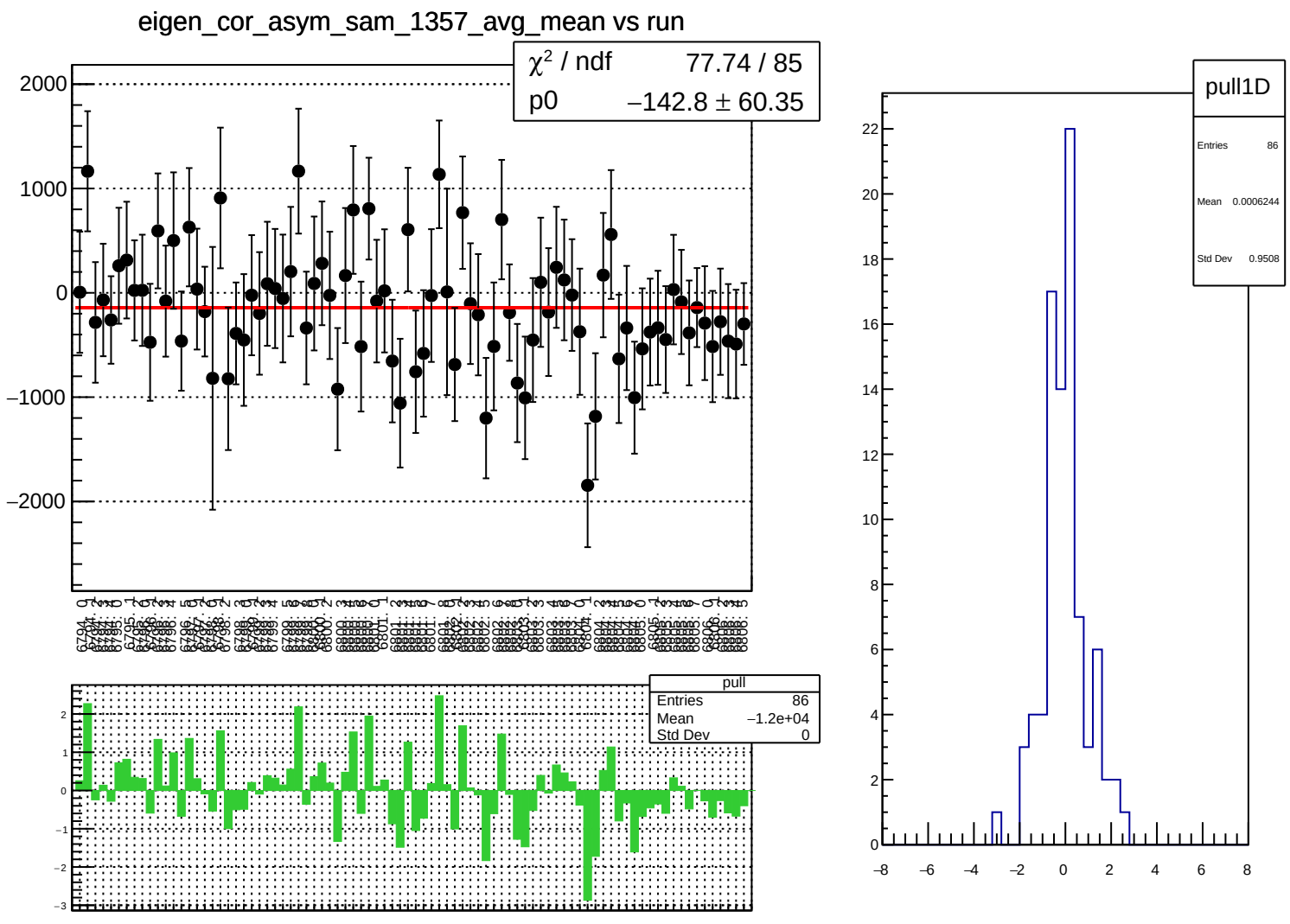

pull1D
Entries 86
Mean 0.0006244
Std Dev 0.9508

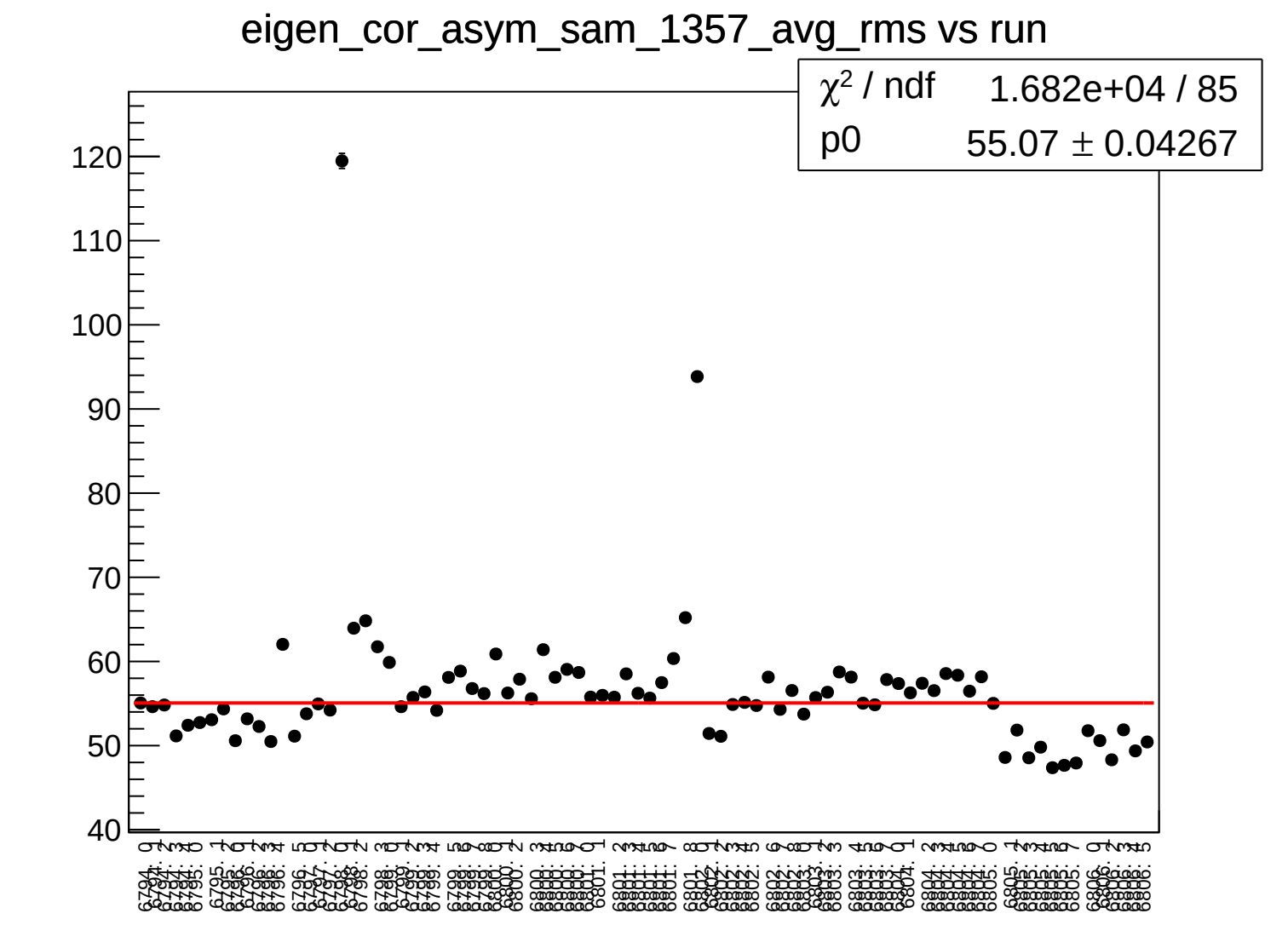

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.682e+04 / 85
p0 55.07 ± 0.04267
120
110
100
90
80
70
60
50
40

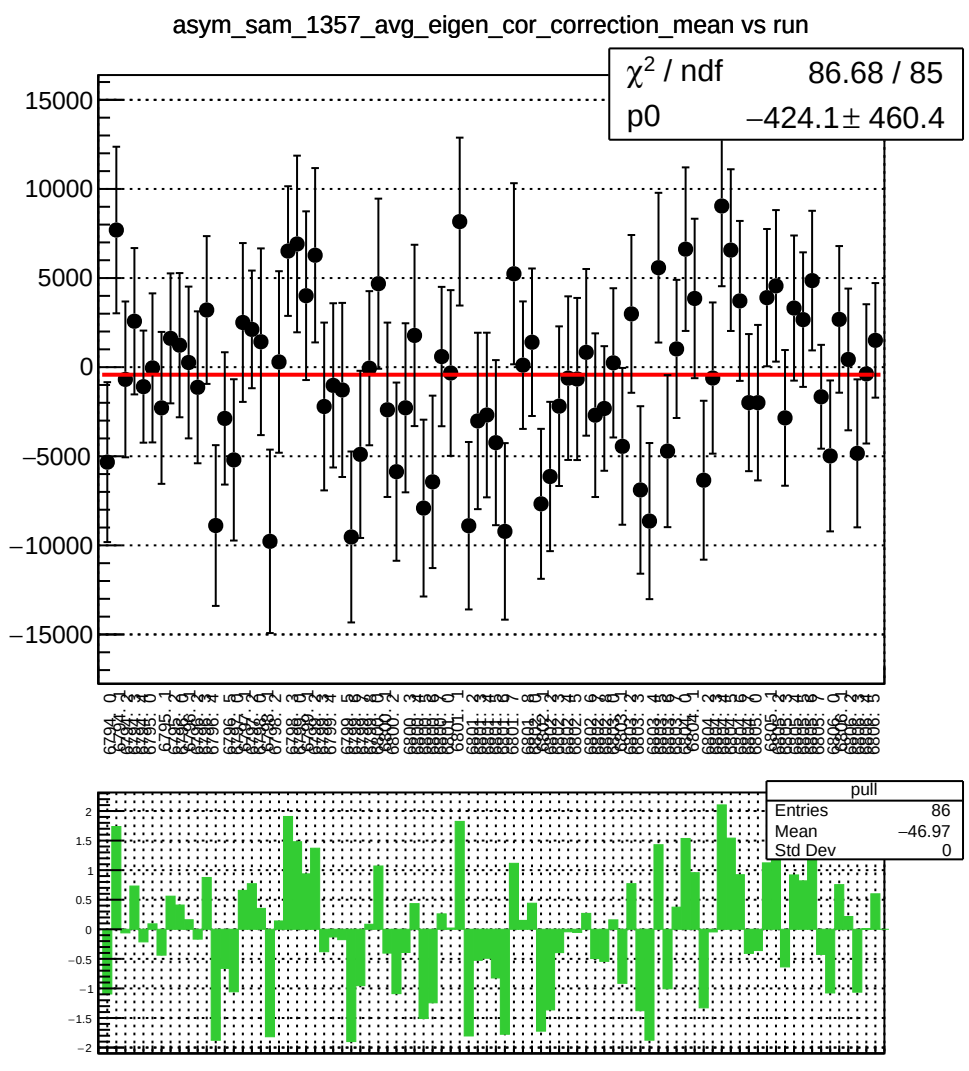

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 86.68 / 85
p0 −424.1± 460.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −46.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

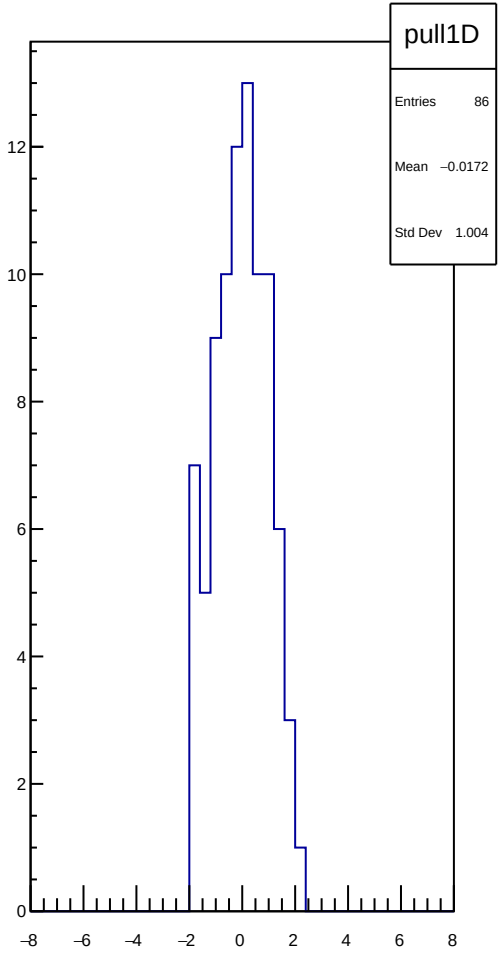

pull1D
Entries 86
Mean −0.0172
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

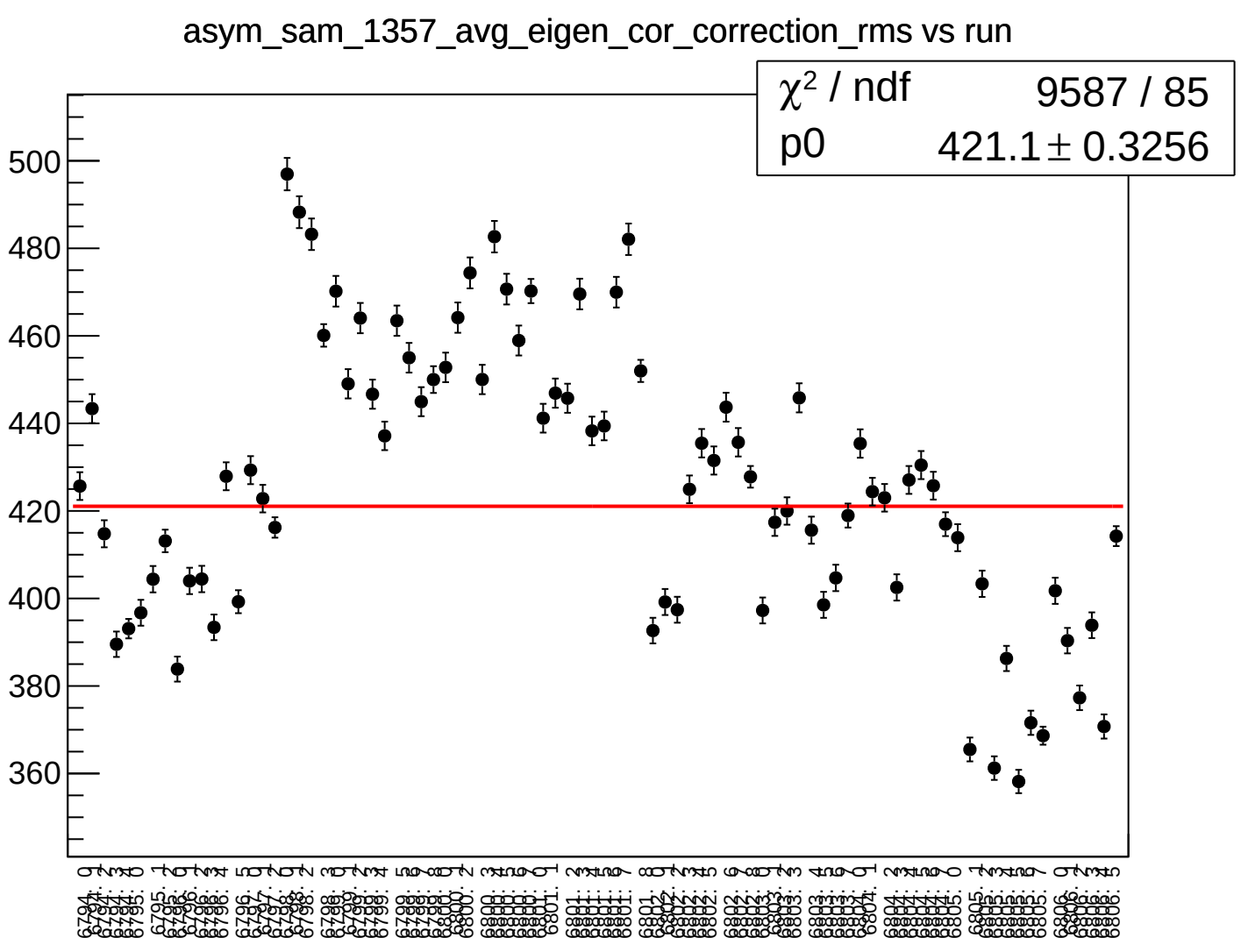

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 9587 / 85
p0 421.1 ± 0.3256
500
480
460
440
420
400
380
360

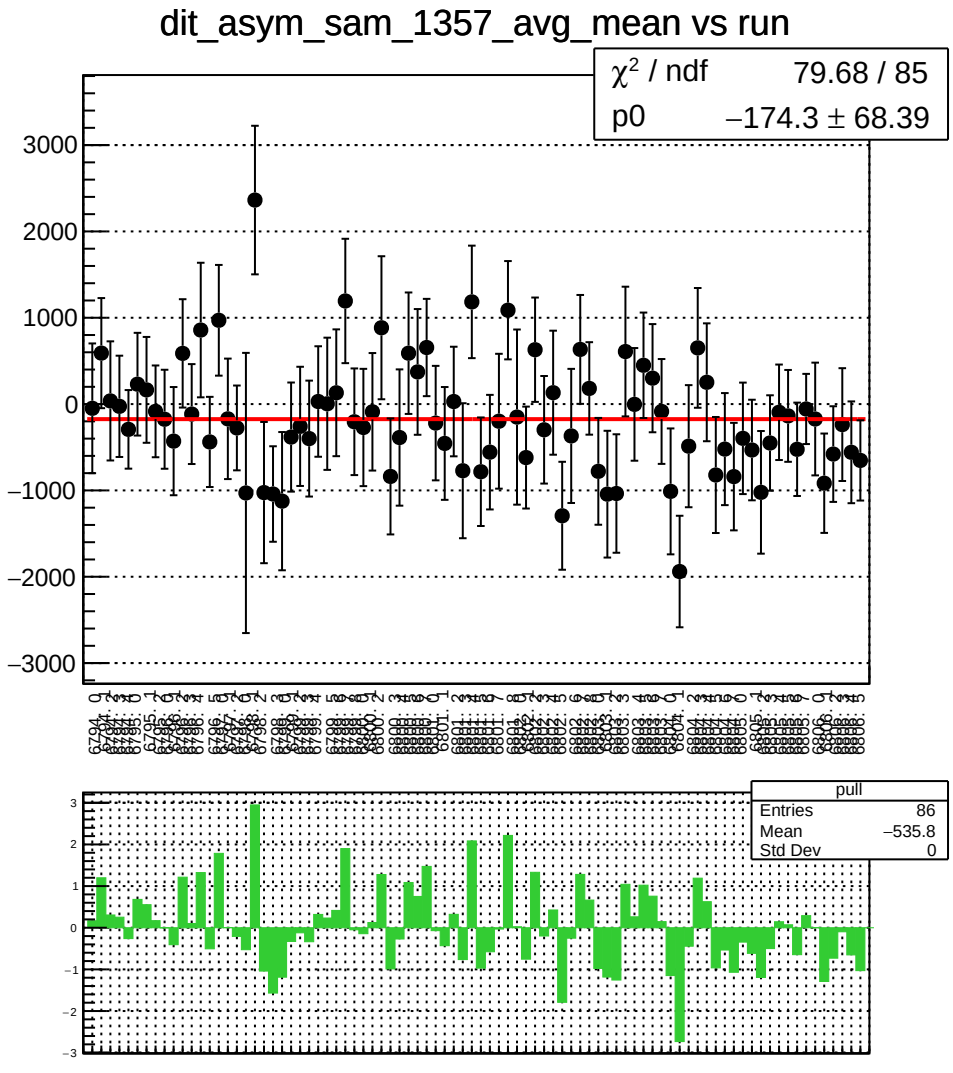

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 77.74 / 85
p0 −142.8 ± 60.35
2000
1000
0
−1000
−2000
pull
Entries 86
Mean −1.2e+04
Std Dev 0
pull1D
Entries 86
Mean 0.0006244
Std Dev 0.9508

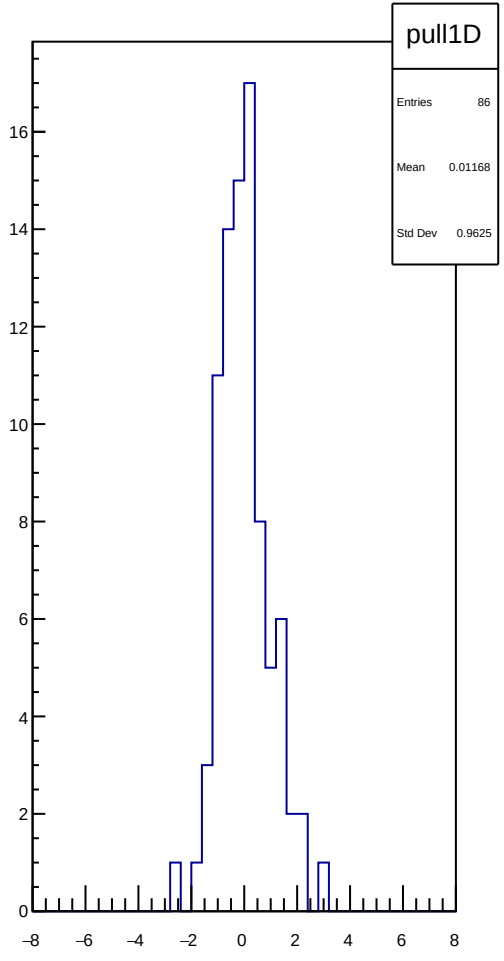

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 1.682e+04 / 85
p0 55.07 ± 0.04267
120
110
100
90
80
70
60
50
40

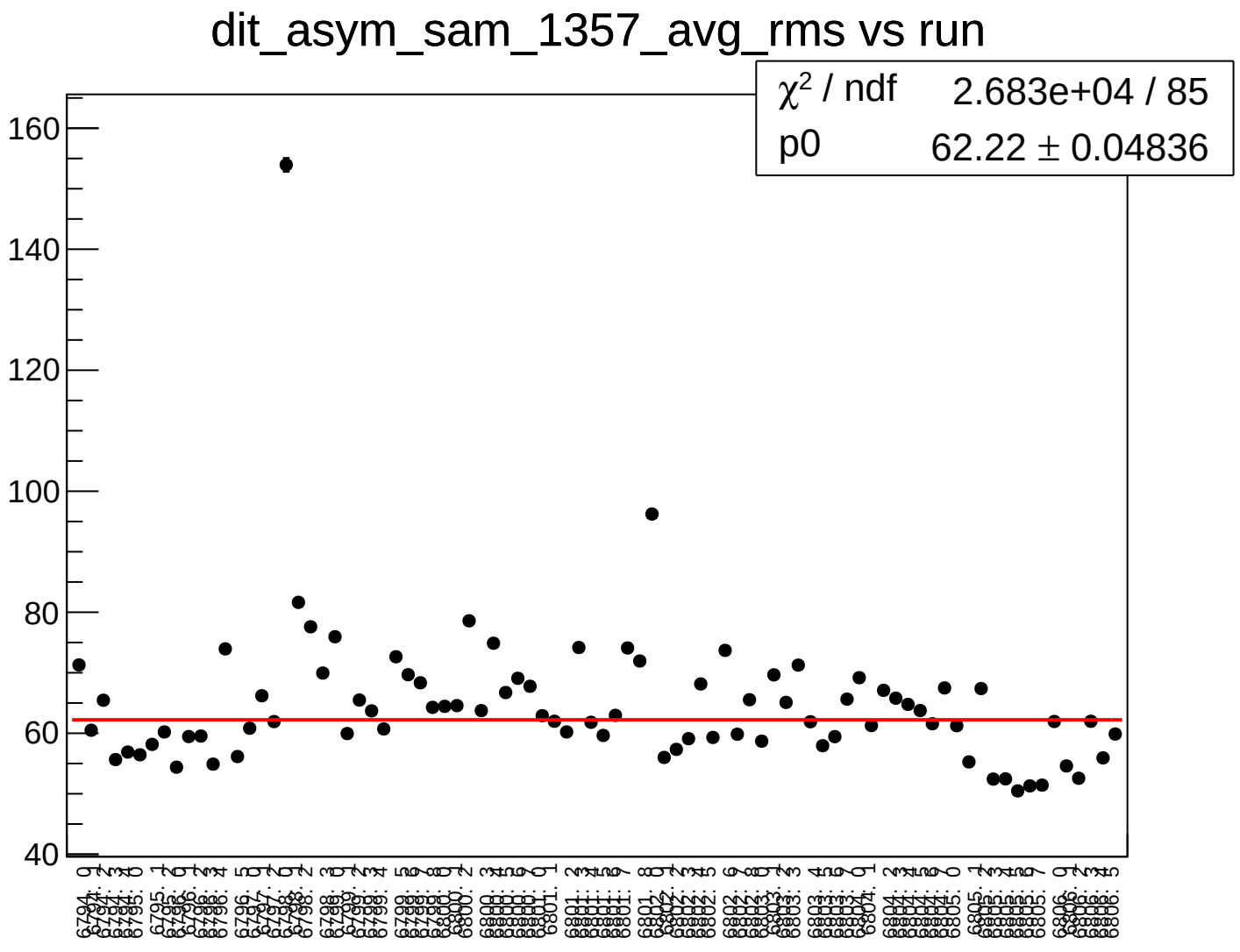

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 86.68 / 85
p0 −424.1± 460.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −46.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

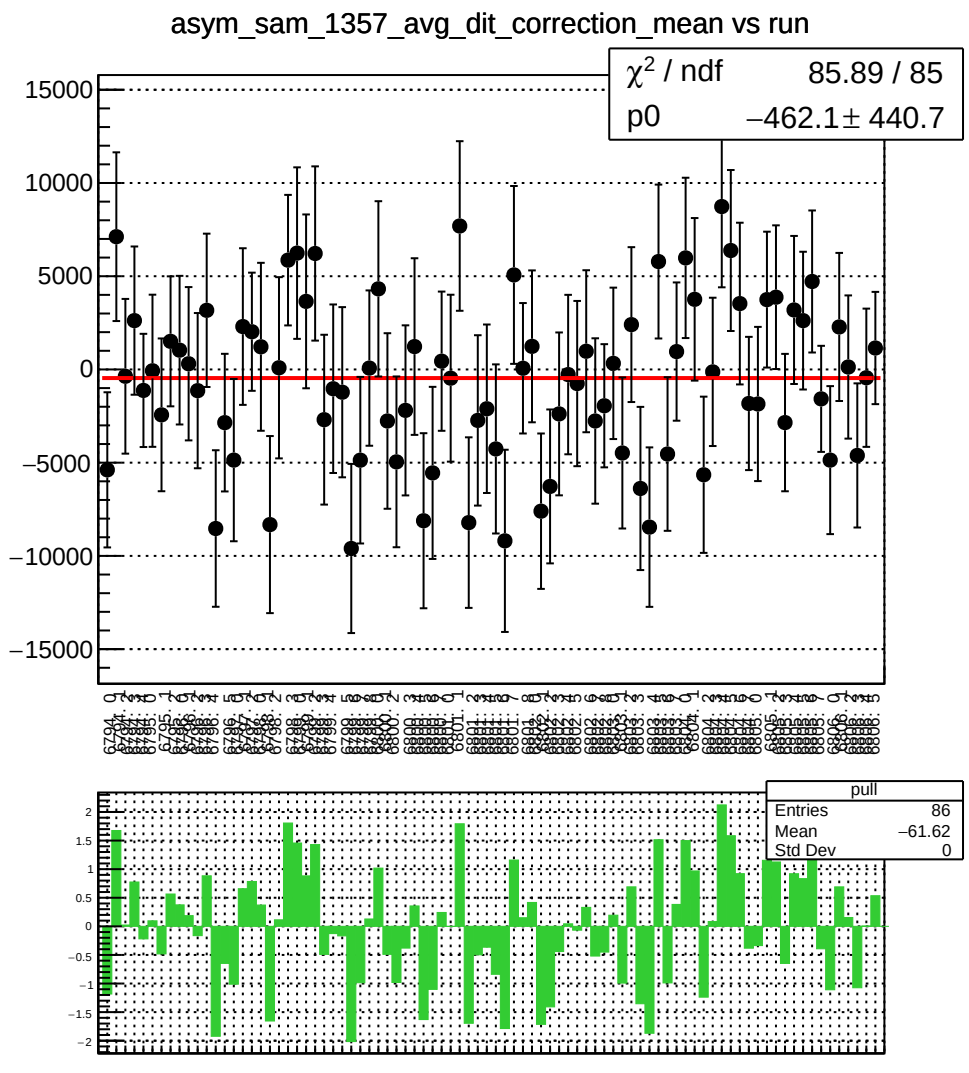

pull1D
Entries 86
Mean −0.0172
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

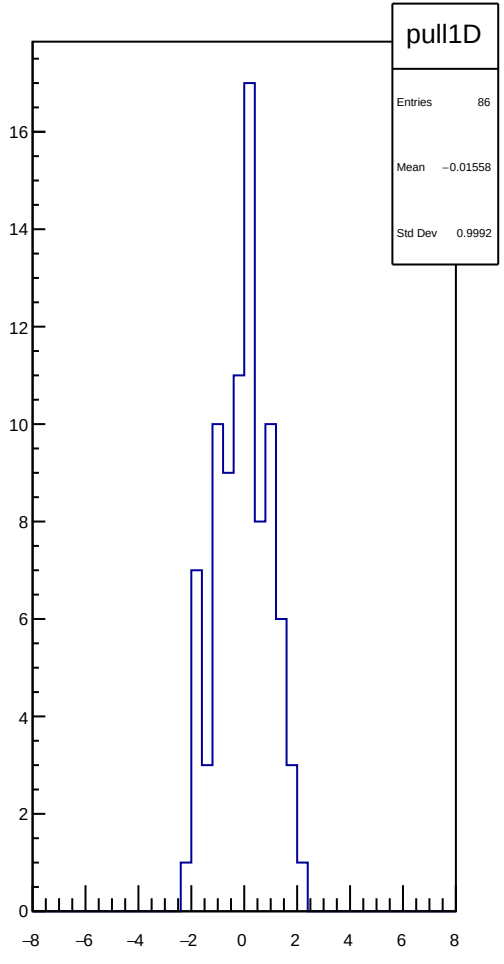

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 9587 / 85
p0 421.1 ± 0.3256
500
480
460
440
420
400
380
360

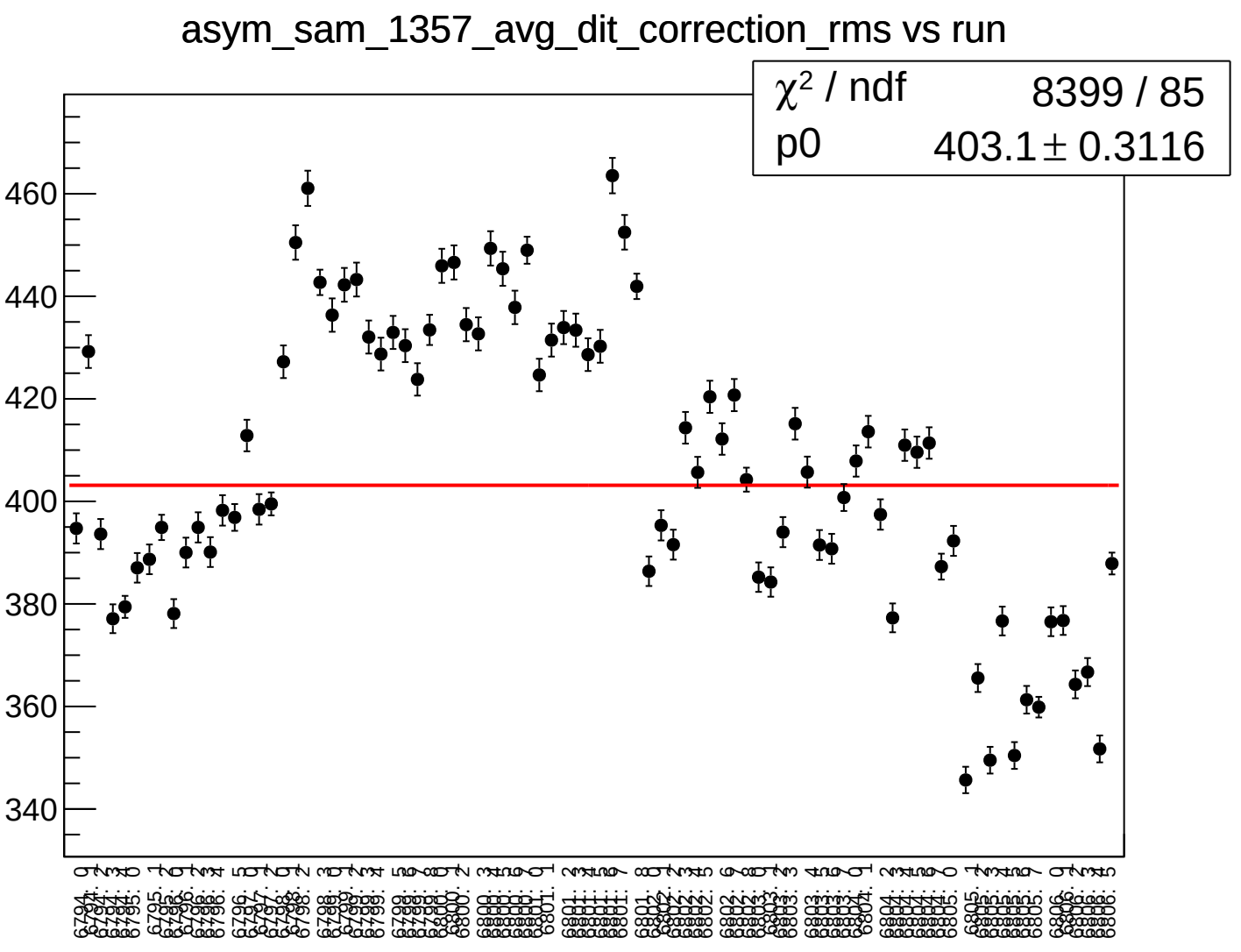

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 79.68 / 85
p0 −174.3 ± 68.39
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −535.8
Std Dev 0
3
2
1
0
−1
−2
−3

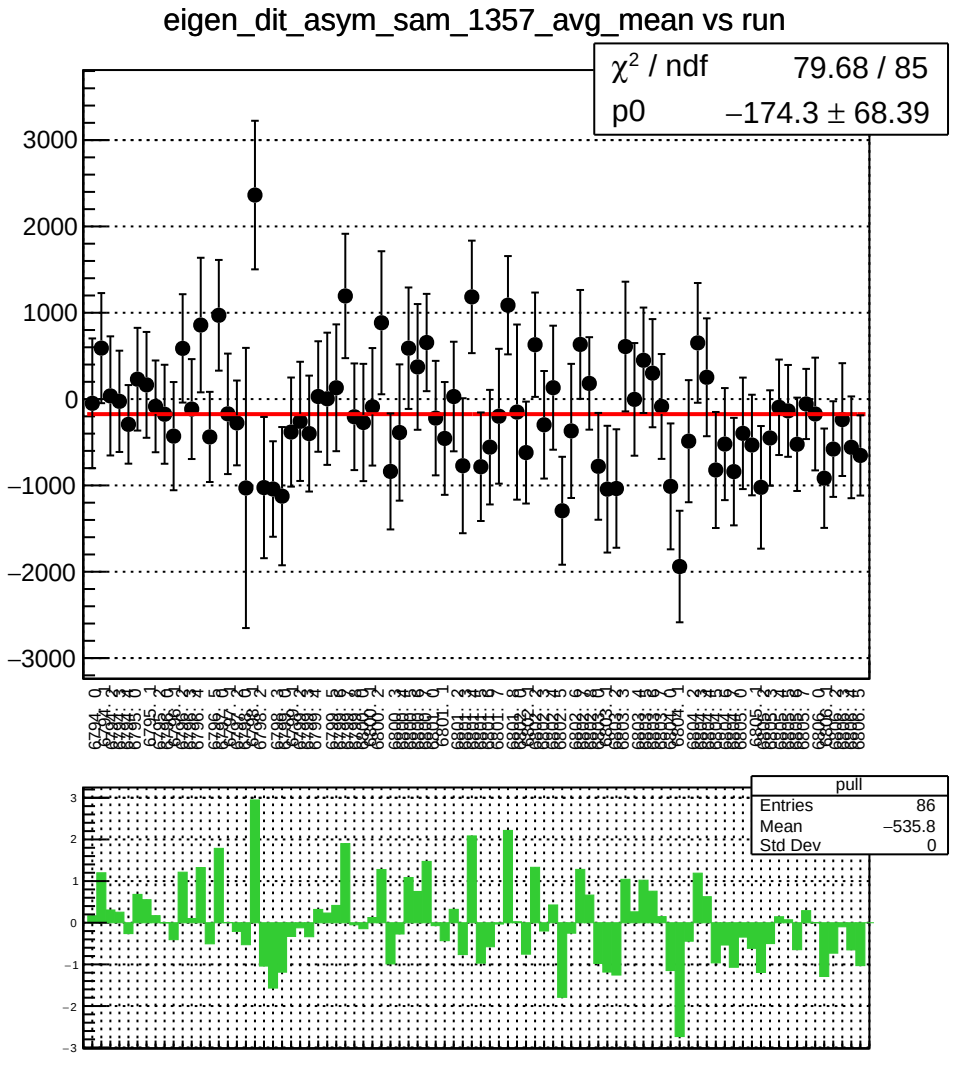

pull1D
Entries 86
Mean 0.01168
Std Dev 0.9625
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

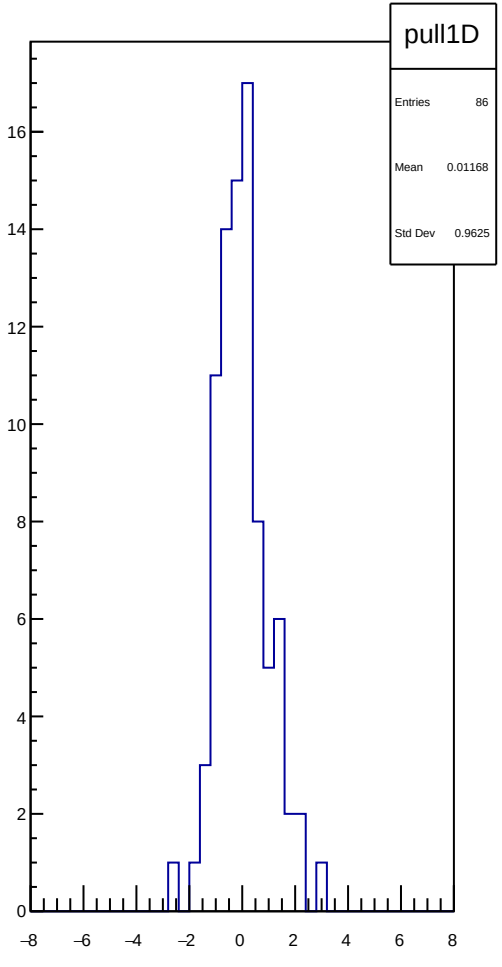

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.683e+04 / 85
p0 62.22 ± 0.04836
160
140
120
100
80
60
40

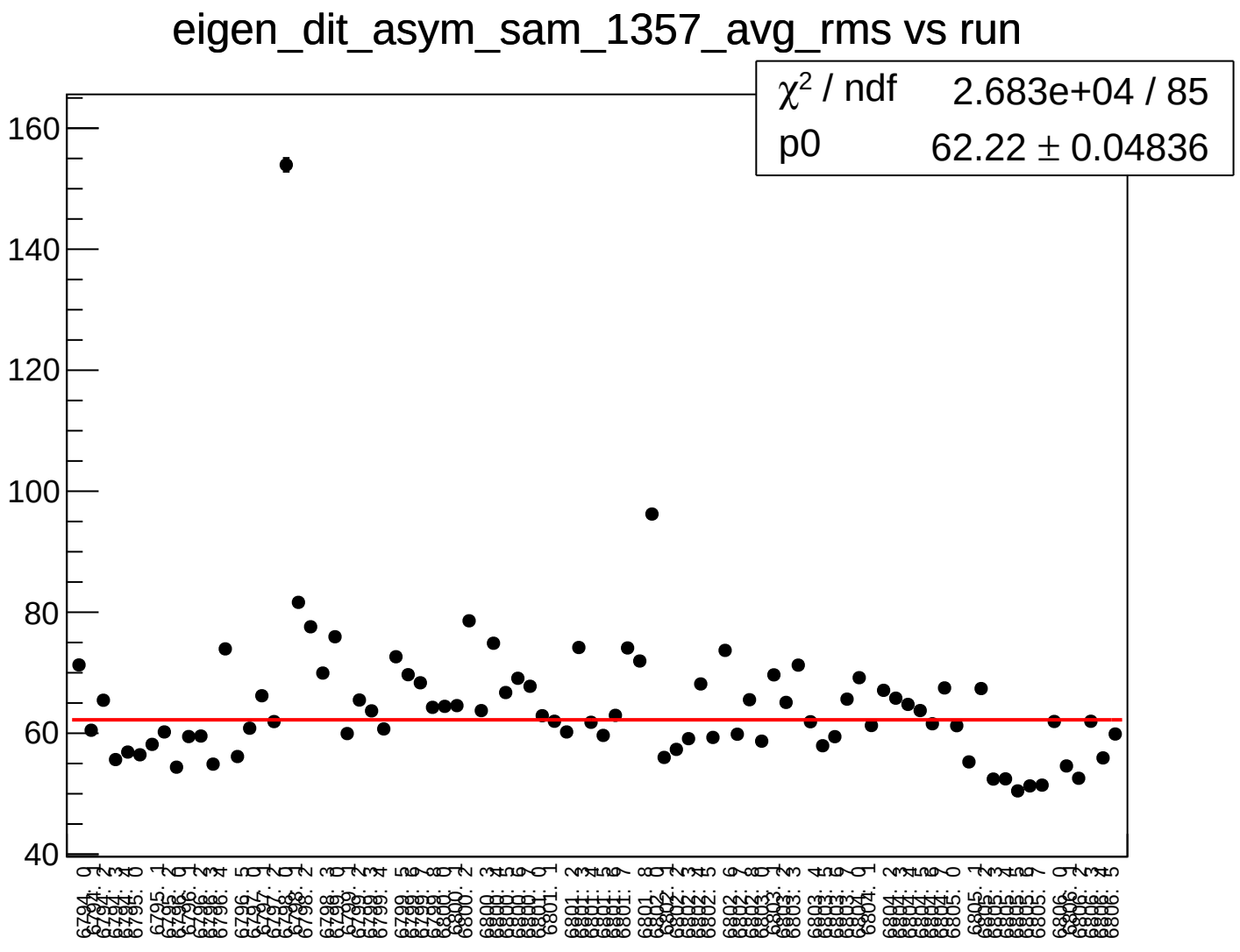

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 85.89 / 85
p0 −462.1 ± 440.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −61.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

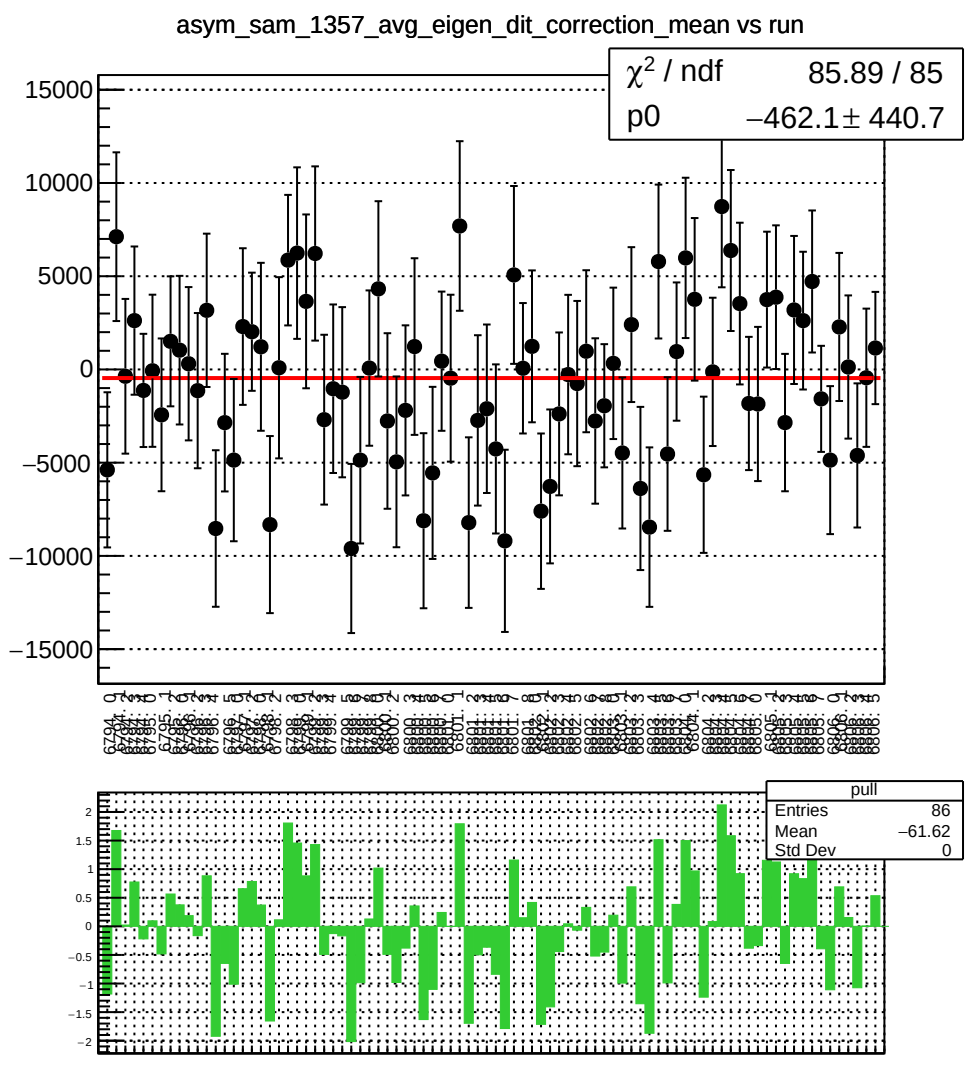

pull1D
Entries 86
Mean −0.01558
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

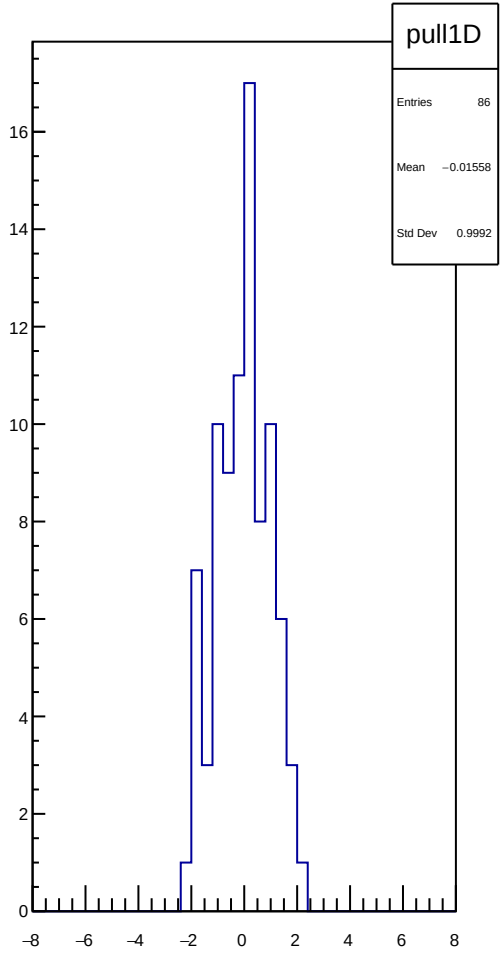

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 8399 / 85
p0 403.1 ± 0.3116
460
440
420
400
380
360
340

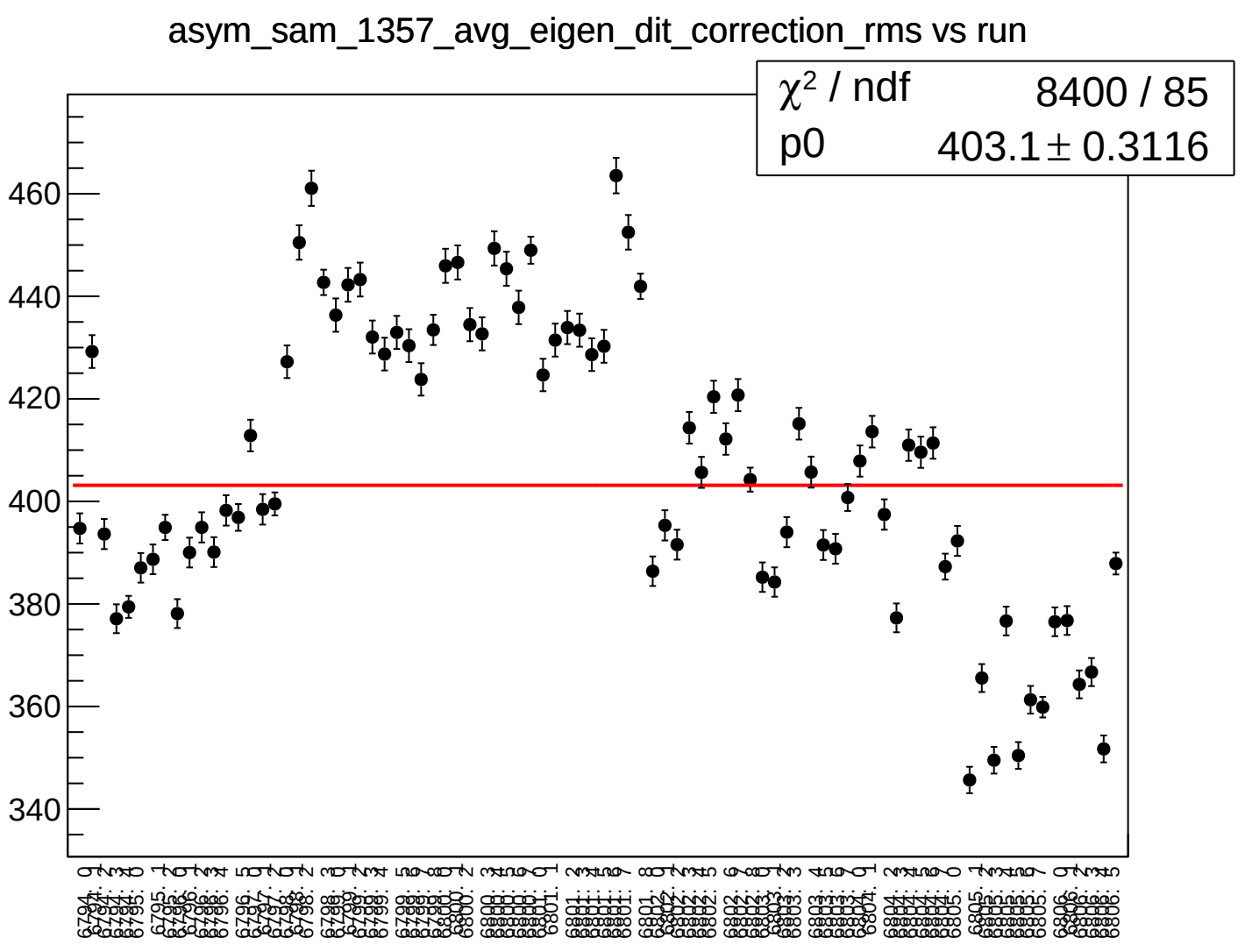

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 79.68 / 85
p0 −174.3 ± 68.39
pull
Entries 86
Mean −535.8
Std Dev 0

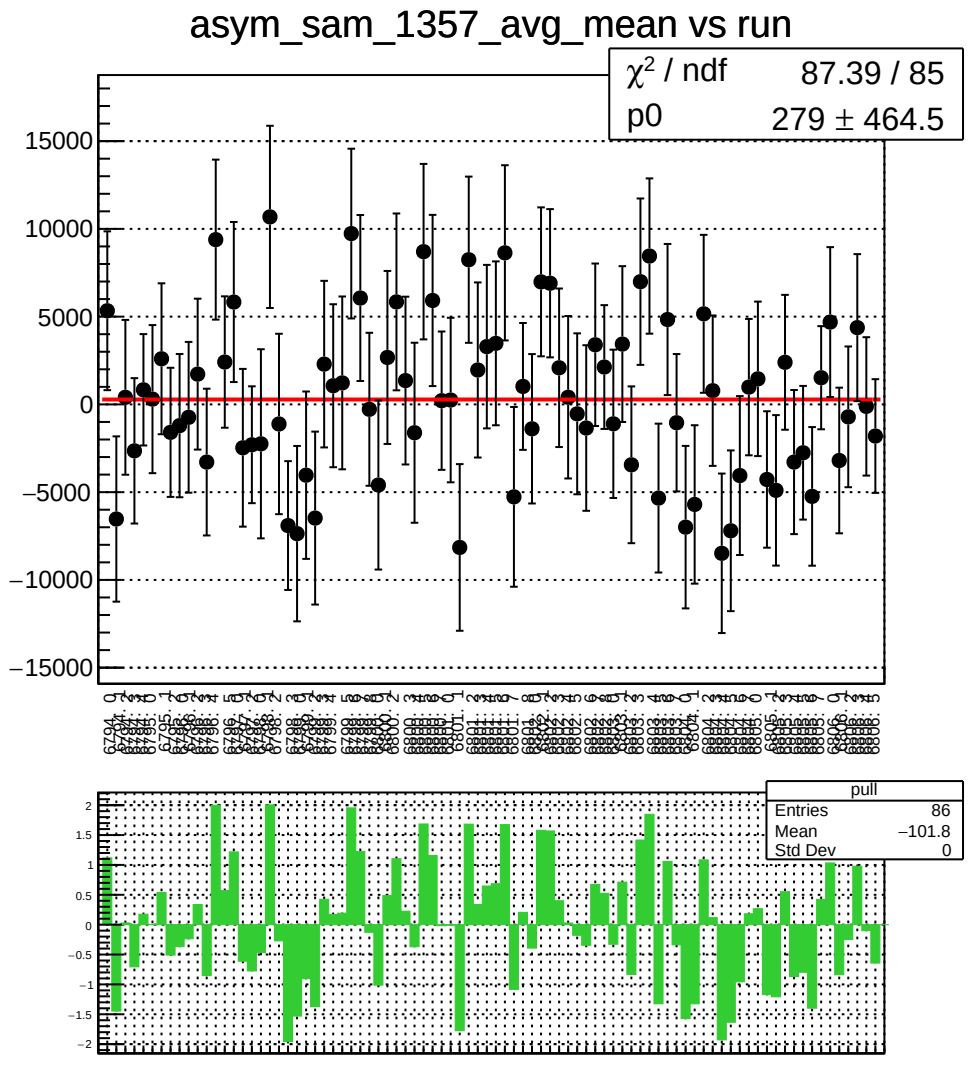

pull1D
Entries 86
Mean 0.01168
Std Dev 0.9625

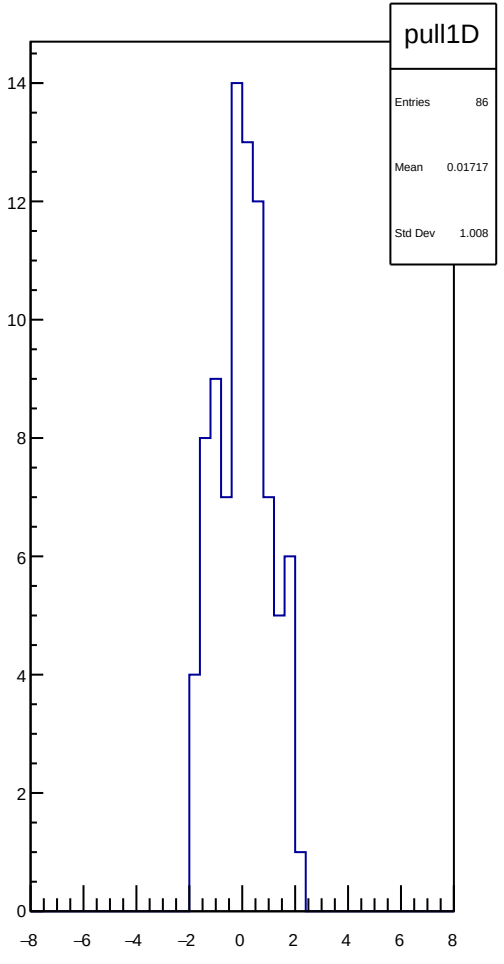

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.683e+04 / 85
p0 62.22 ± 0.04836
160
140
120
100
80
60
40

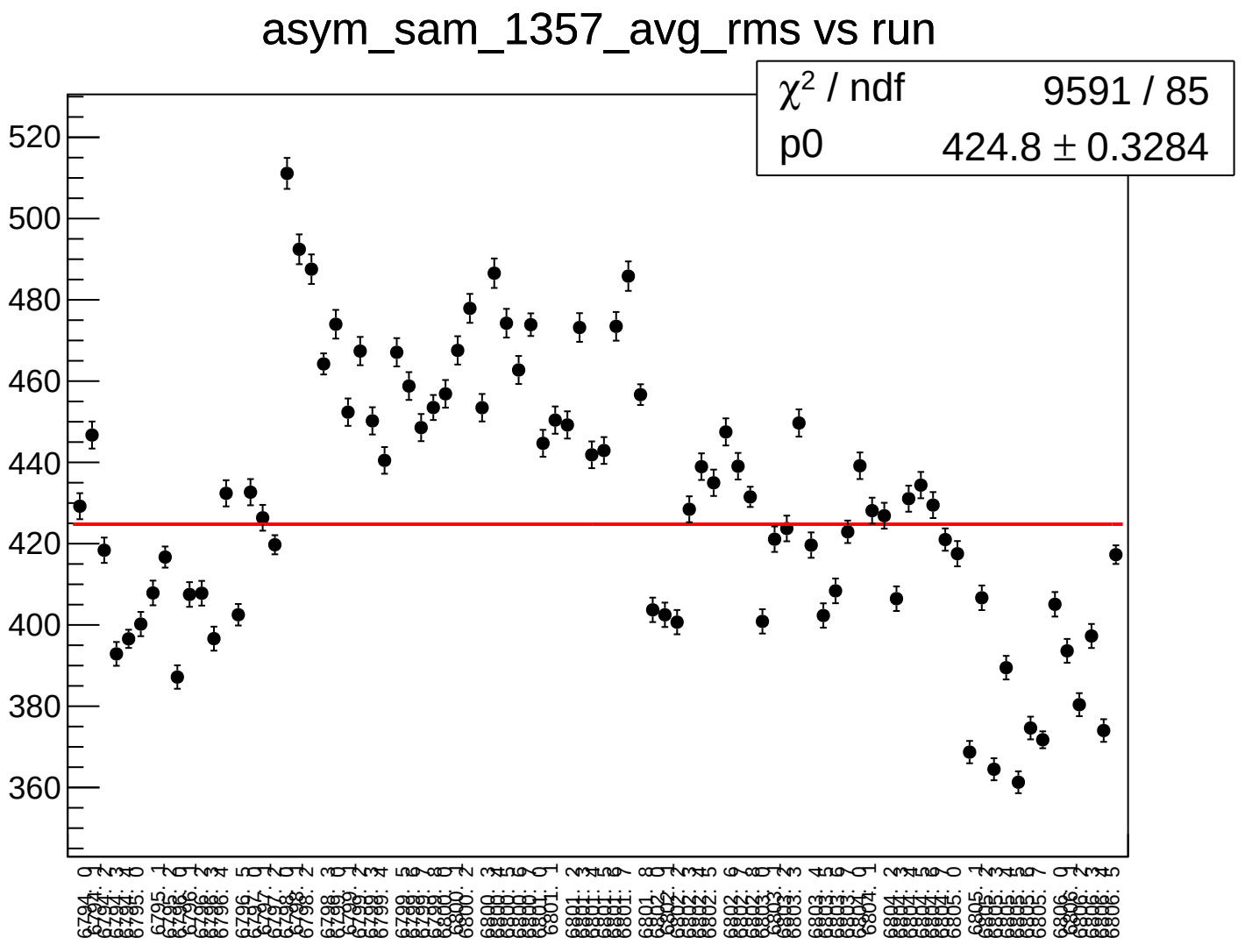

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 85.89 / 85
p0 −462.1 ± 440.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 86
Mean −61.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

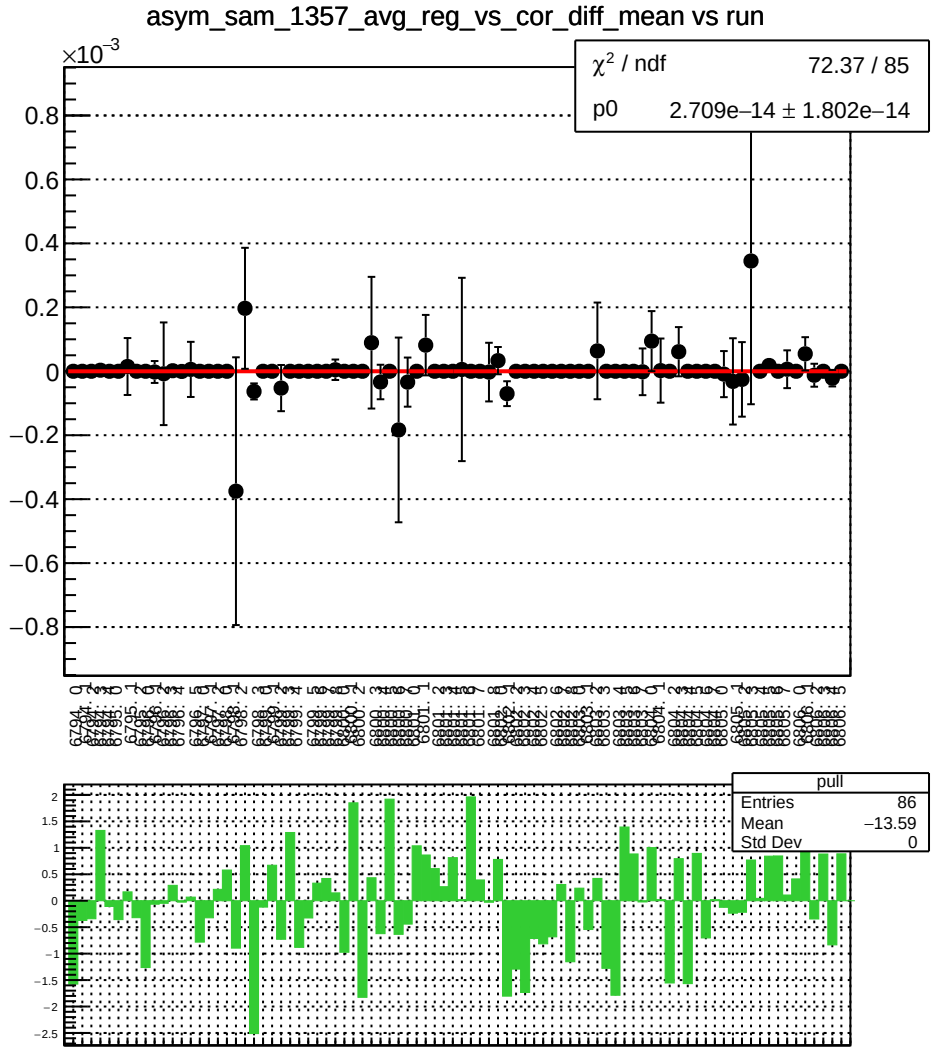

pull1D
Entries 86
Mean −0.01558
Std Dev 0.9992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

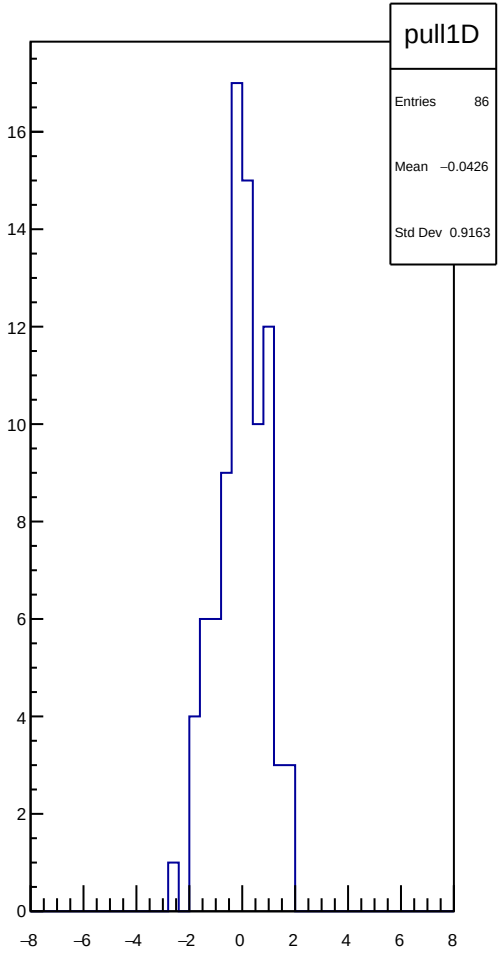

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 8400 / 85
p0 403.1 ± 0.3116
460
440
420
400
380
360
340

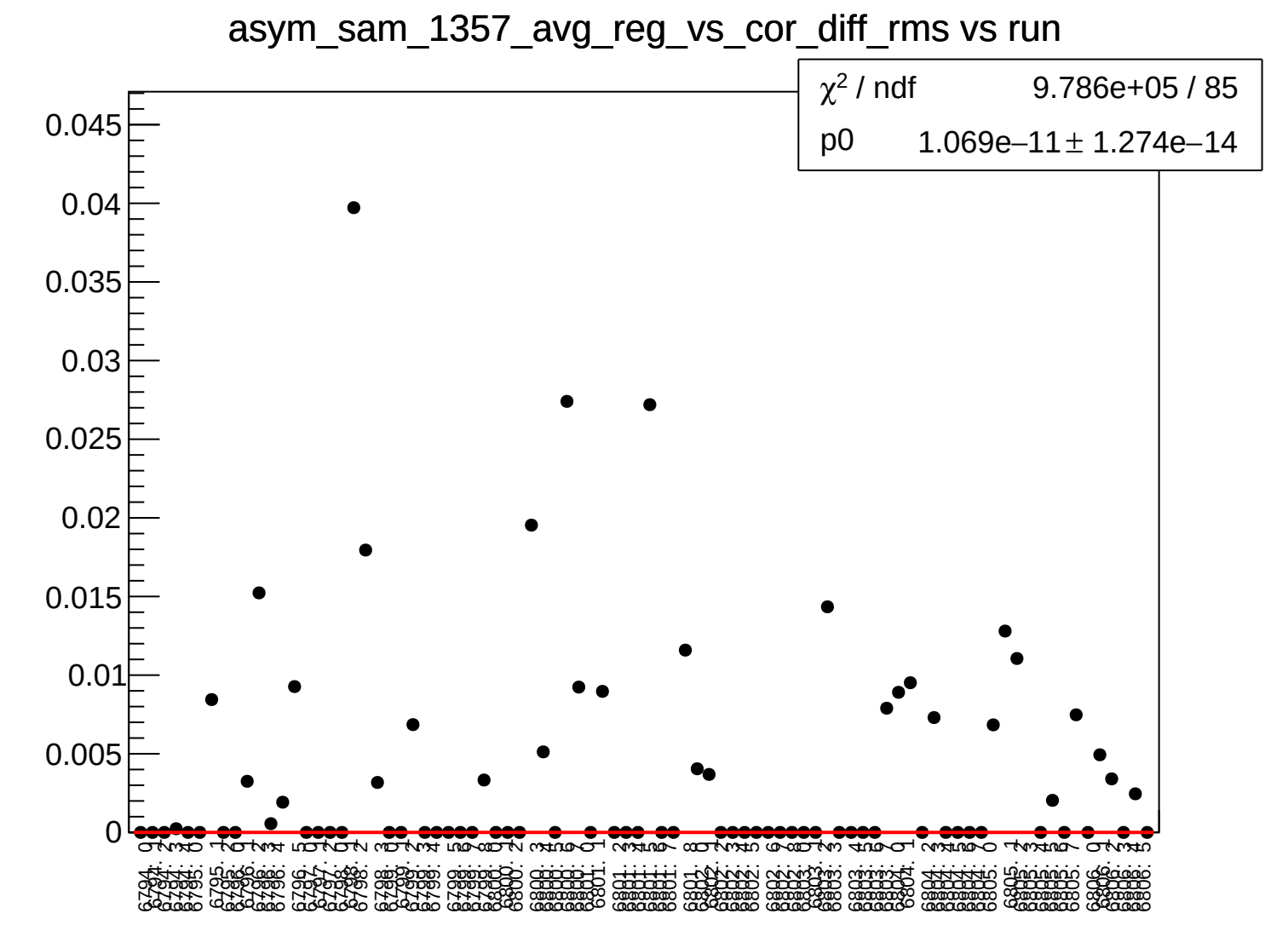

asym_sam_1357_avg_mean vs run
χ² / ndf 87.39 / 85
p0 279 ± 464.5
pull
Entries 86
Mean −101.8
Std Dev 0

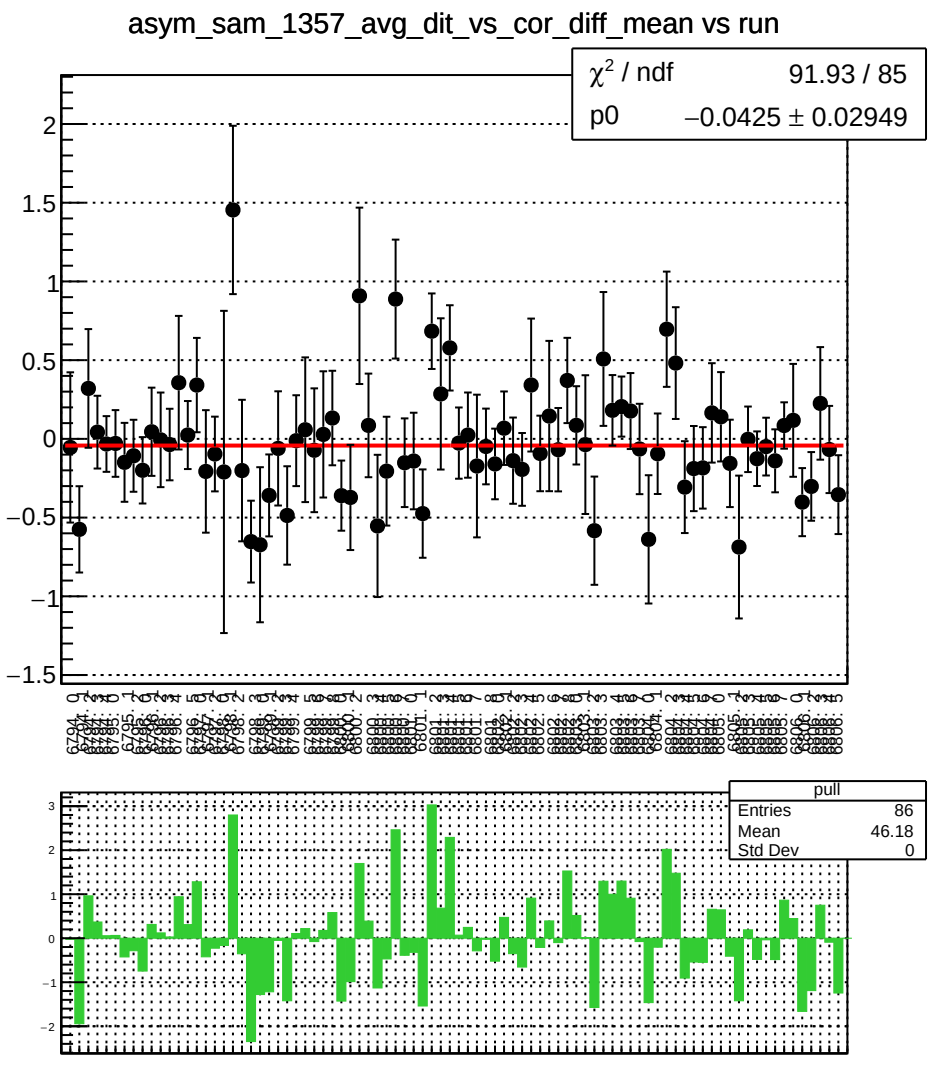

pull1D
Entries 86
Mean 0.01717
Std Dev 1.008

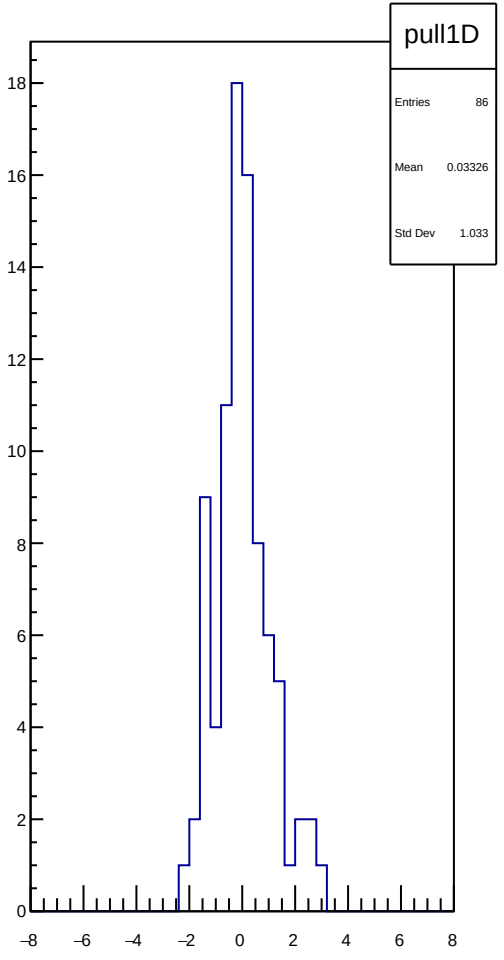

asym_sam_1357_avg_rms vs run
χ^2 / ndf 9591 / 85
p0 424.8 ± 0.3284
520
500
480
460
440
420
400
380
360

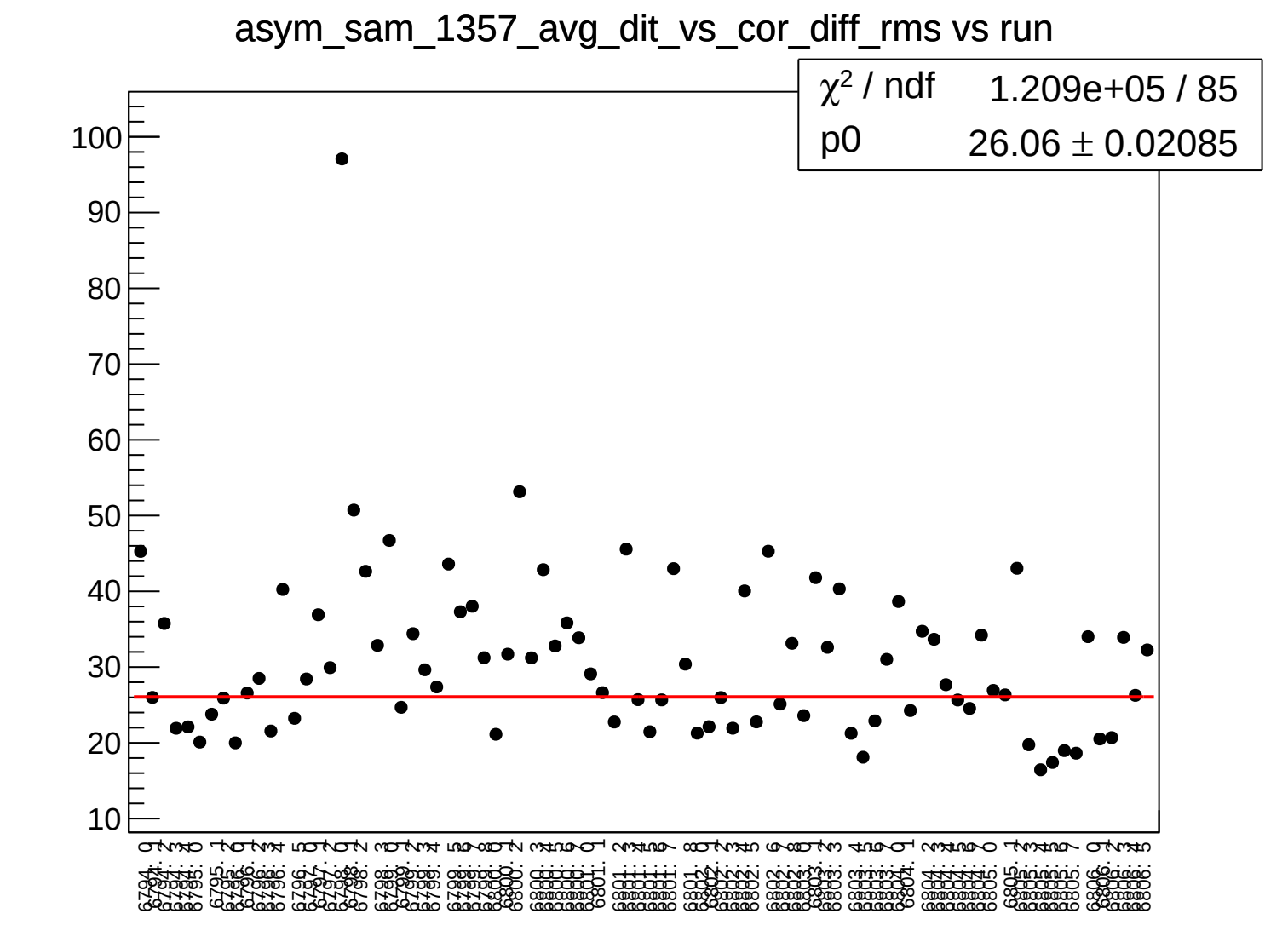

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 72.37 / 85
p0 2.709e−14 ± 1.802e−14
pull
Entries 86
Mean −13.59
Std Dev 0

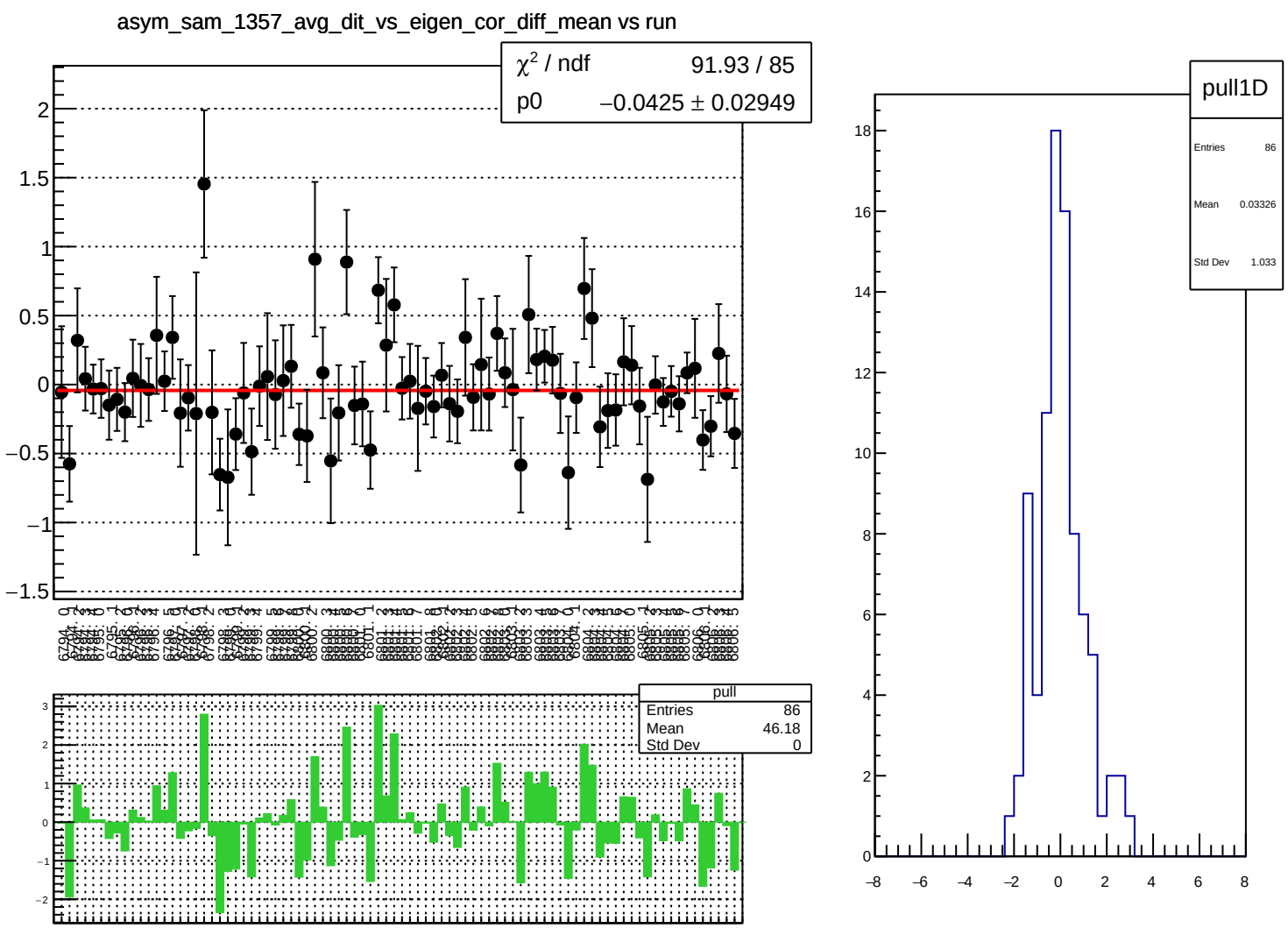

pull1D
Entries 86
Mean −0.0426
Std Dev 0.9163

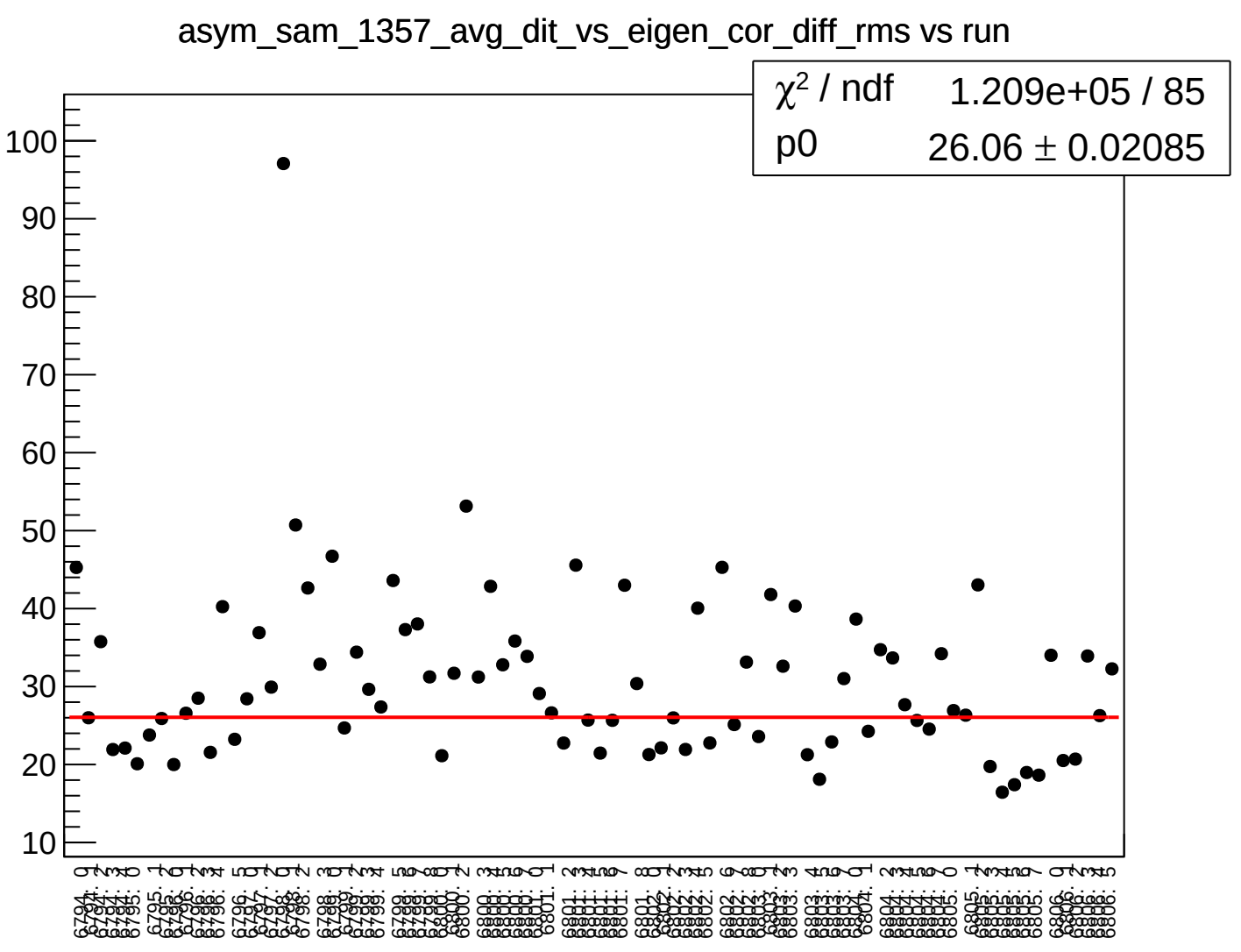

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.786e+05 / 85
p0 1.069e−11 ± 1.274e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

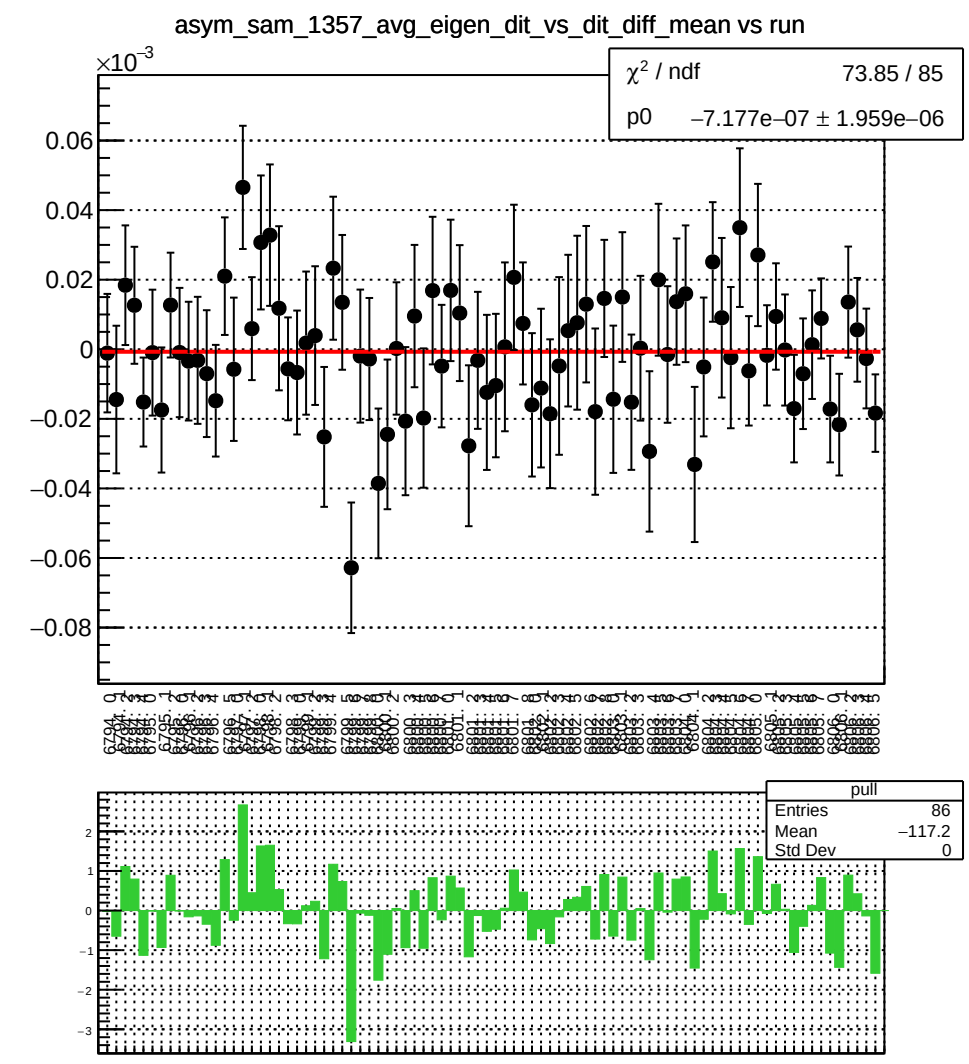

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 85
p0 −0.0425 ± 0.02949
pull
Entries 86
Mean 46.18
Std Dev 0

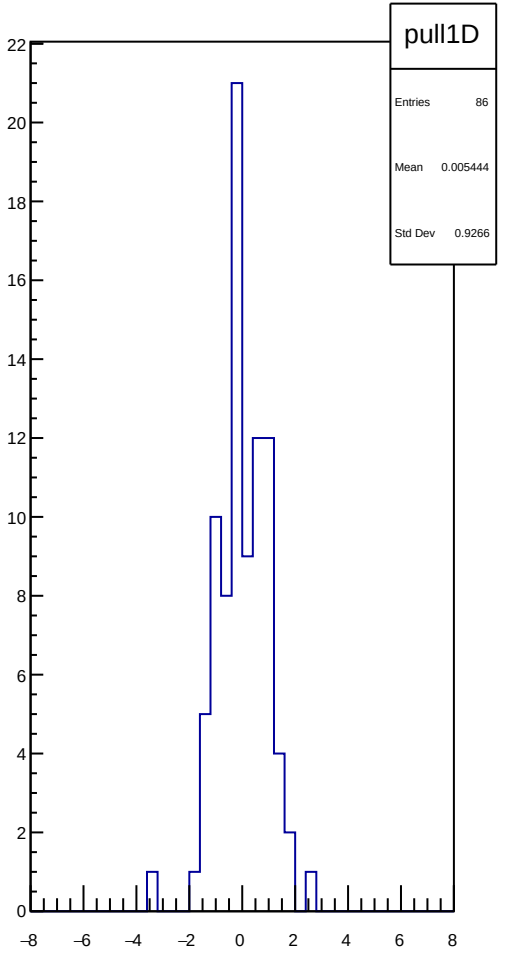

pull1D
Entries 86
Mean 0.03326
Std Dev 1.033

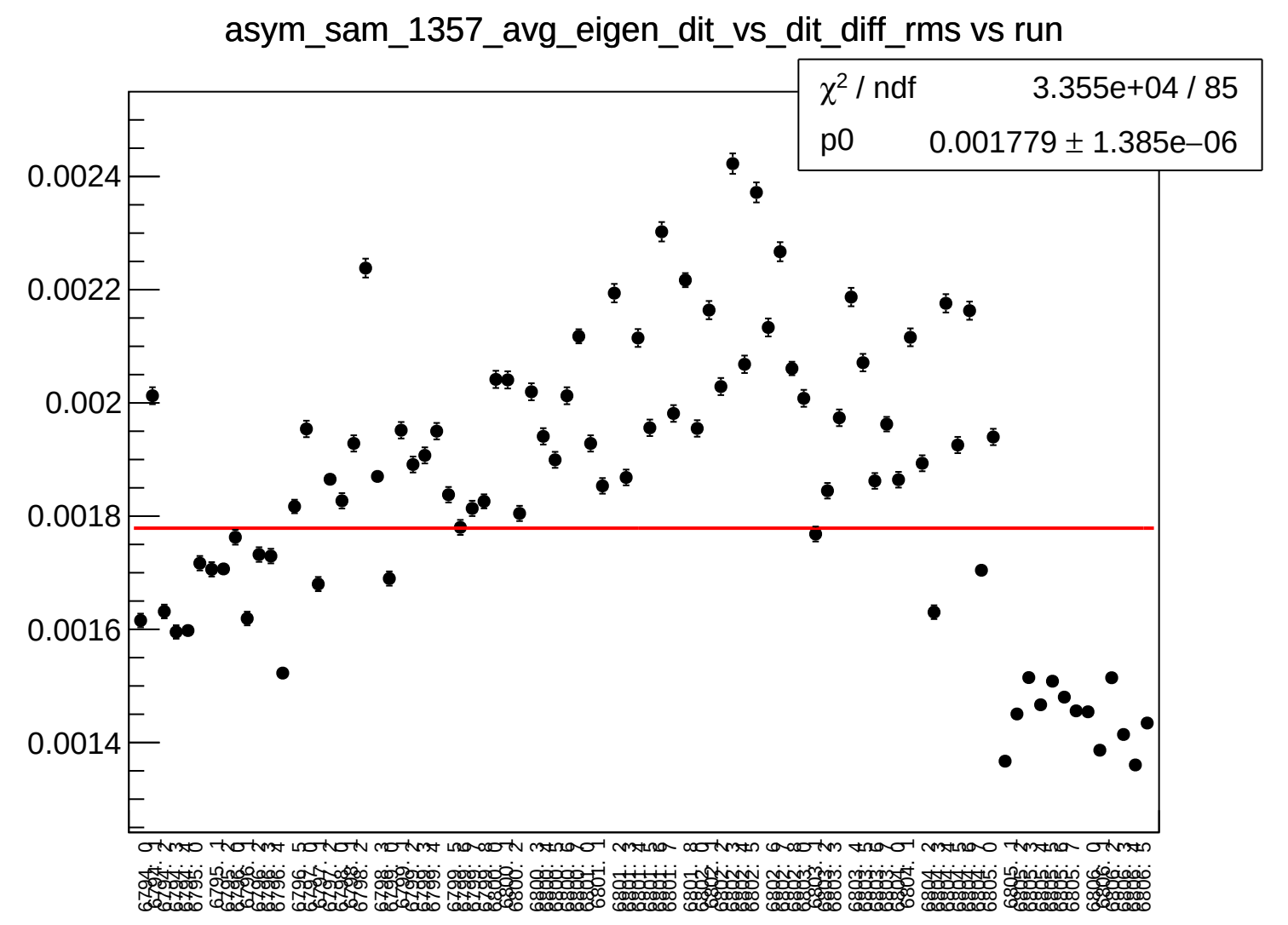

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 85
p0 26.06 ± 0.02085
100
90
80
70
60
50
40
30
20
10

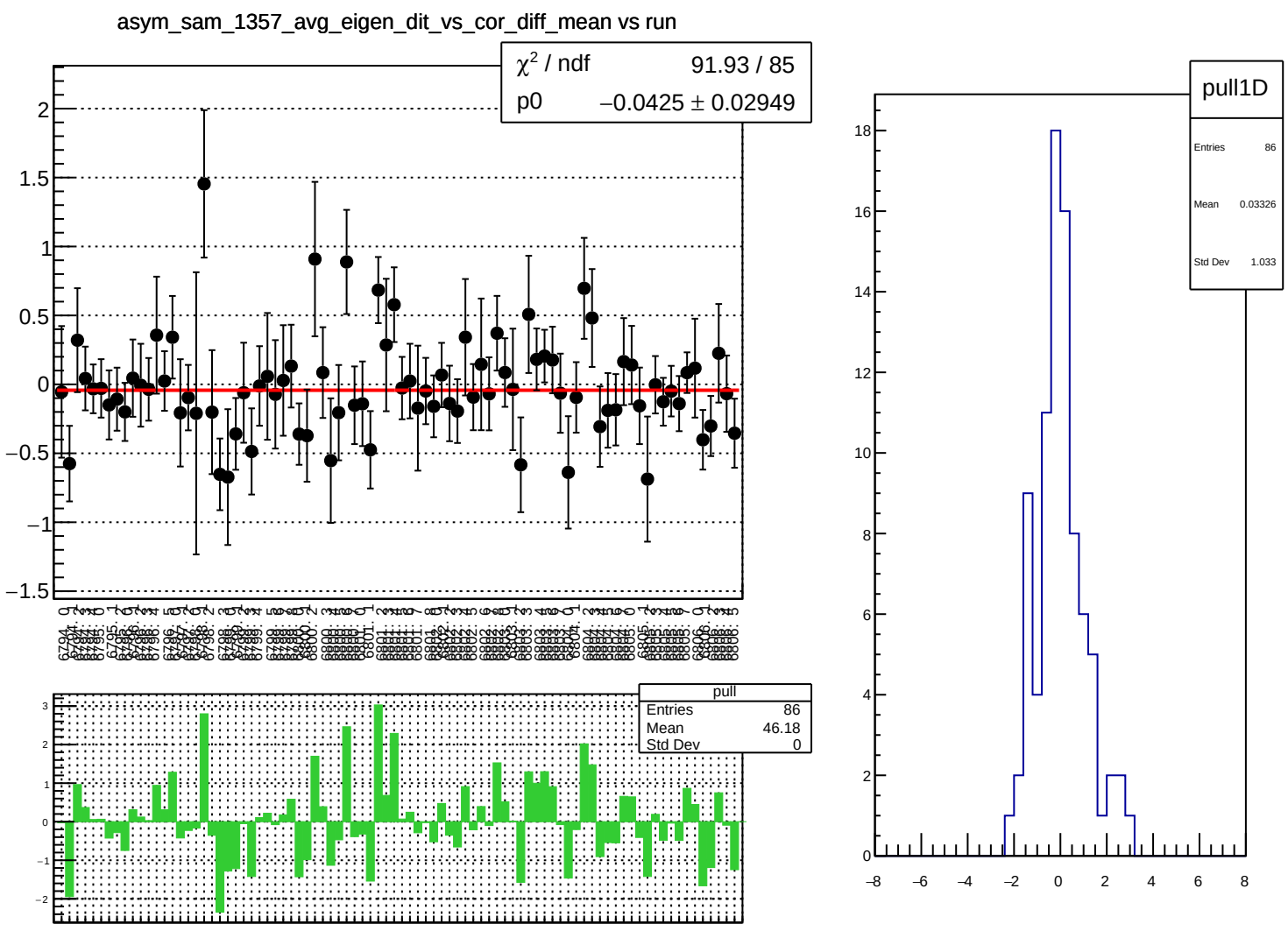

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.93 / 85
p0 −0.0425 ± 0.02949
pull
Entries 86
Mean 46.18
Std Dev 0
pull1D
Entries 86
Mean 0.03326
Std Dev 1.033

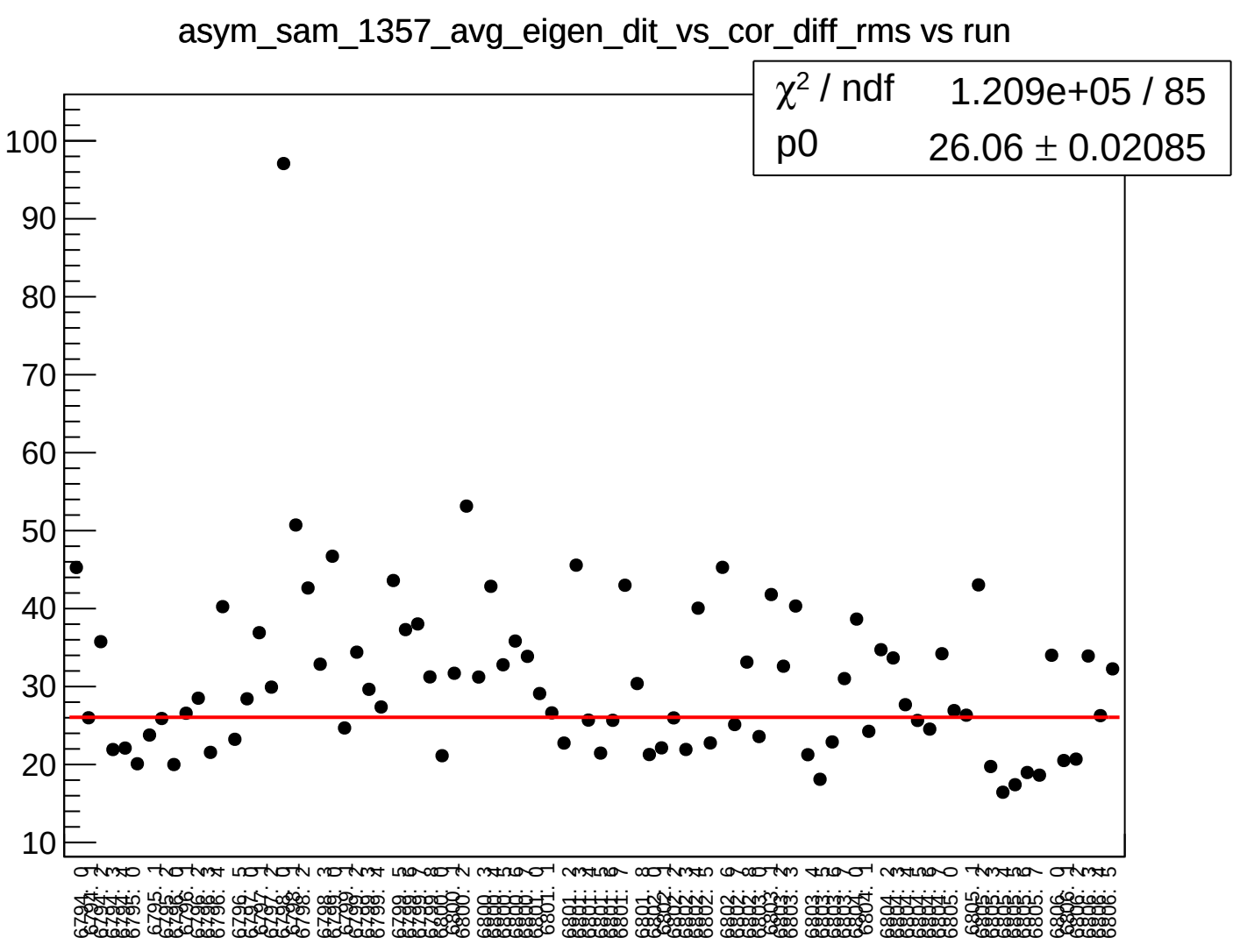

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 85
p0 26.06 ± 0.02085
100
90
80
70
60
50
40
30
20
10

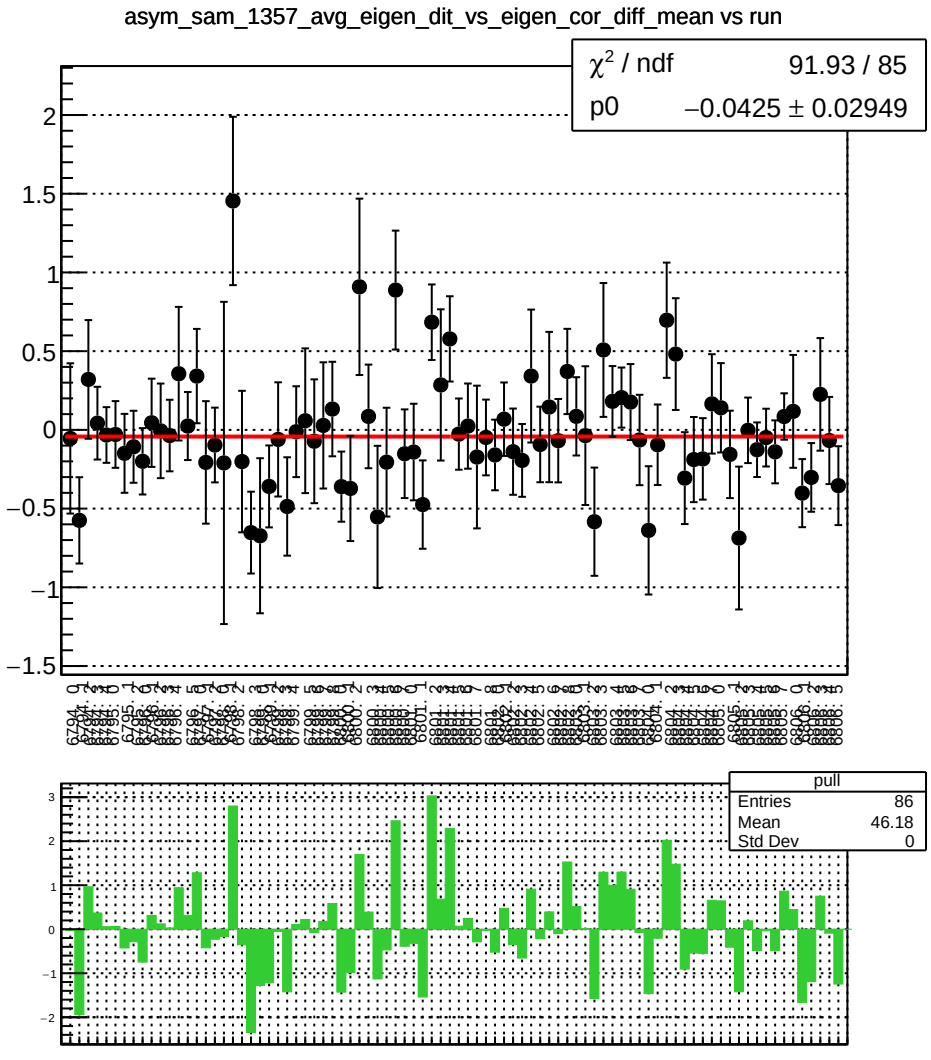

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.85 / 85
p0 −7.177e−07 ± 1.959e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 86
Mean −117.2
Std Dev 0
2
1
0
−1
−2
−3

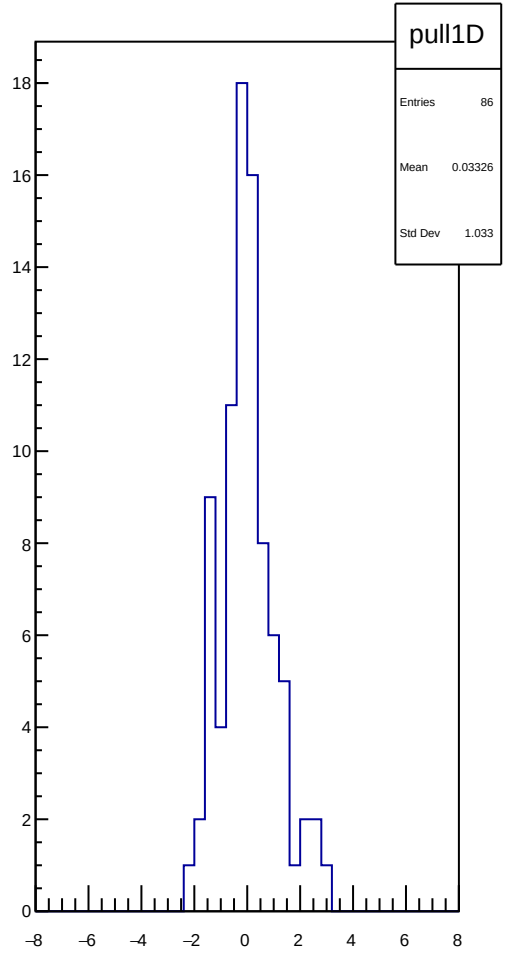

pull1D
Entries 86
Mean 0.005444
Std Dev 0.9266
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

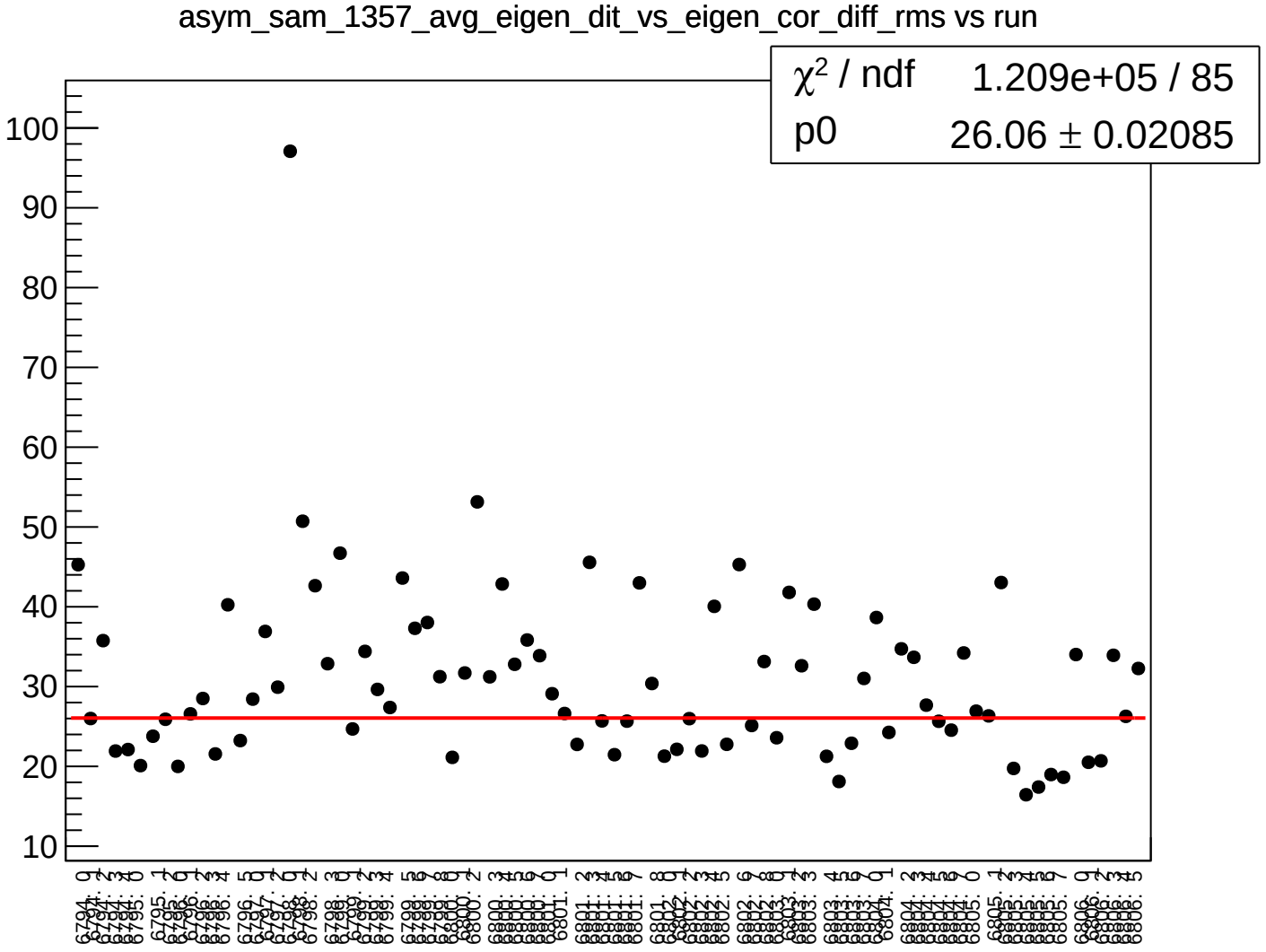

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.355e+04 / 85
p0 0.001779 ± 1.385e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

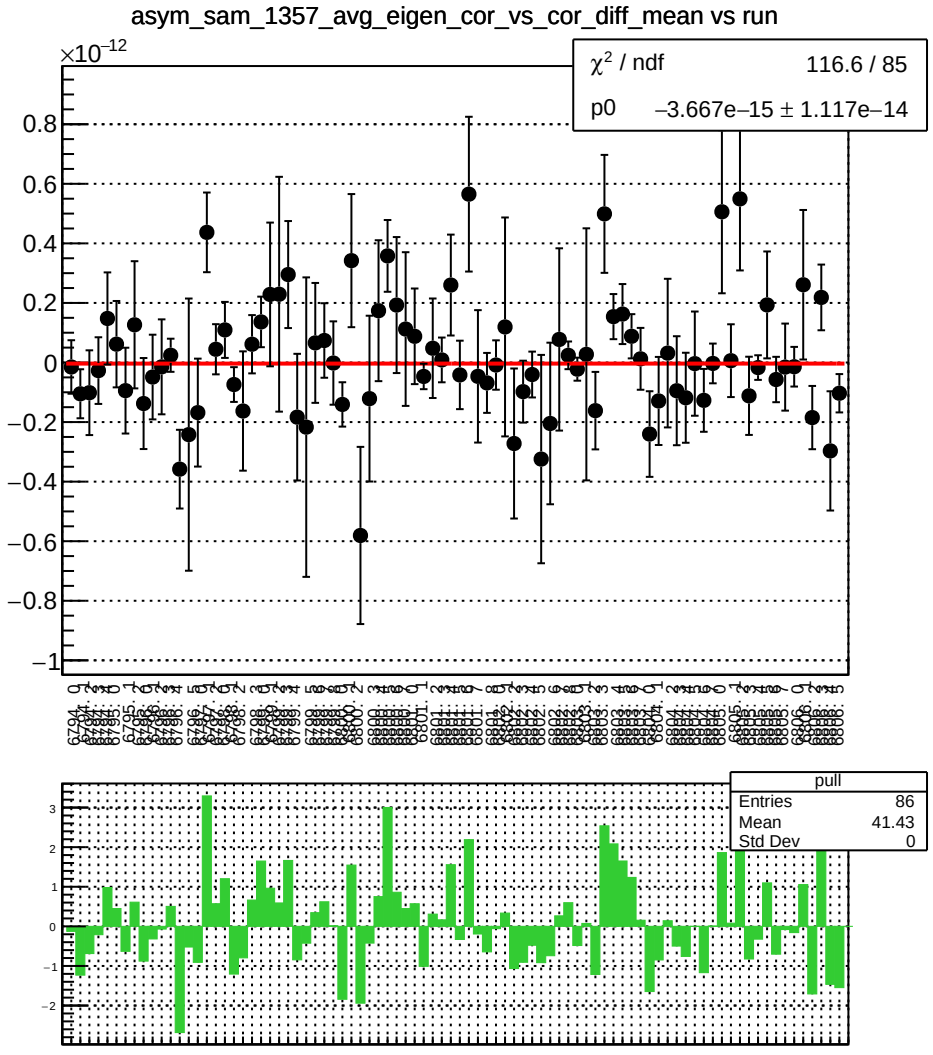

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.93 / 85
p0 −0.0425 ± 0.02949
pull
Entries 86
Mean 46.18
Std Dev 0
pull1D
Entries 86
Mean 0.03326
Std Dev 1.033

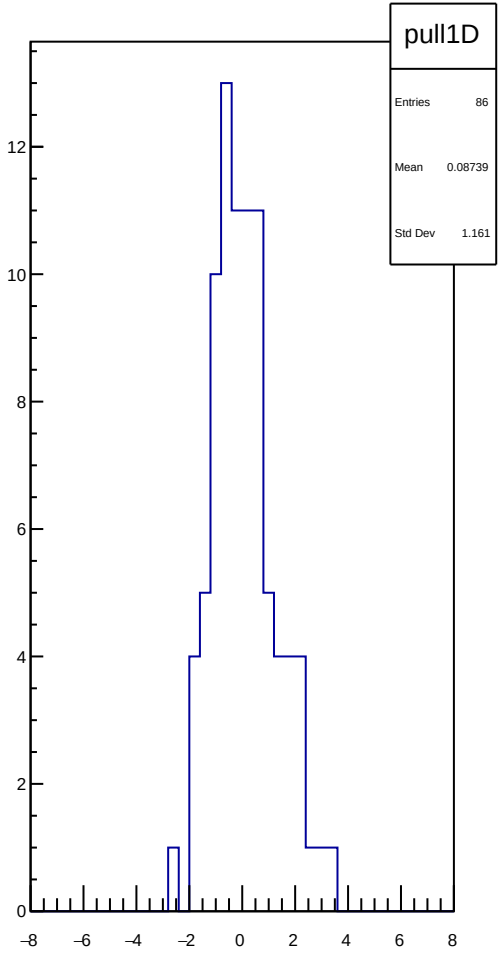

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 85
p0 26.06 ± 0.02085
100
90
80
70
60
50
40
30
20
10

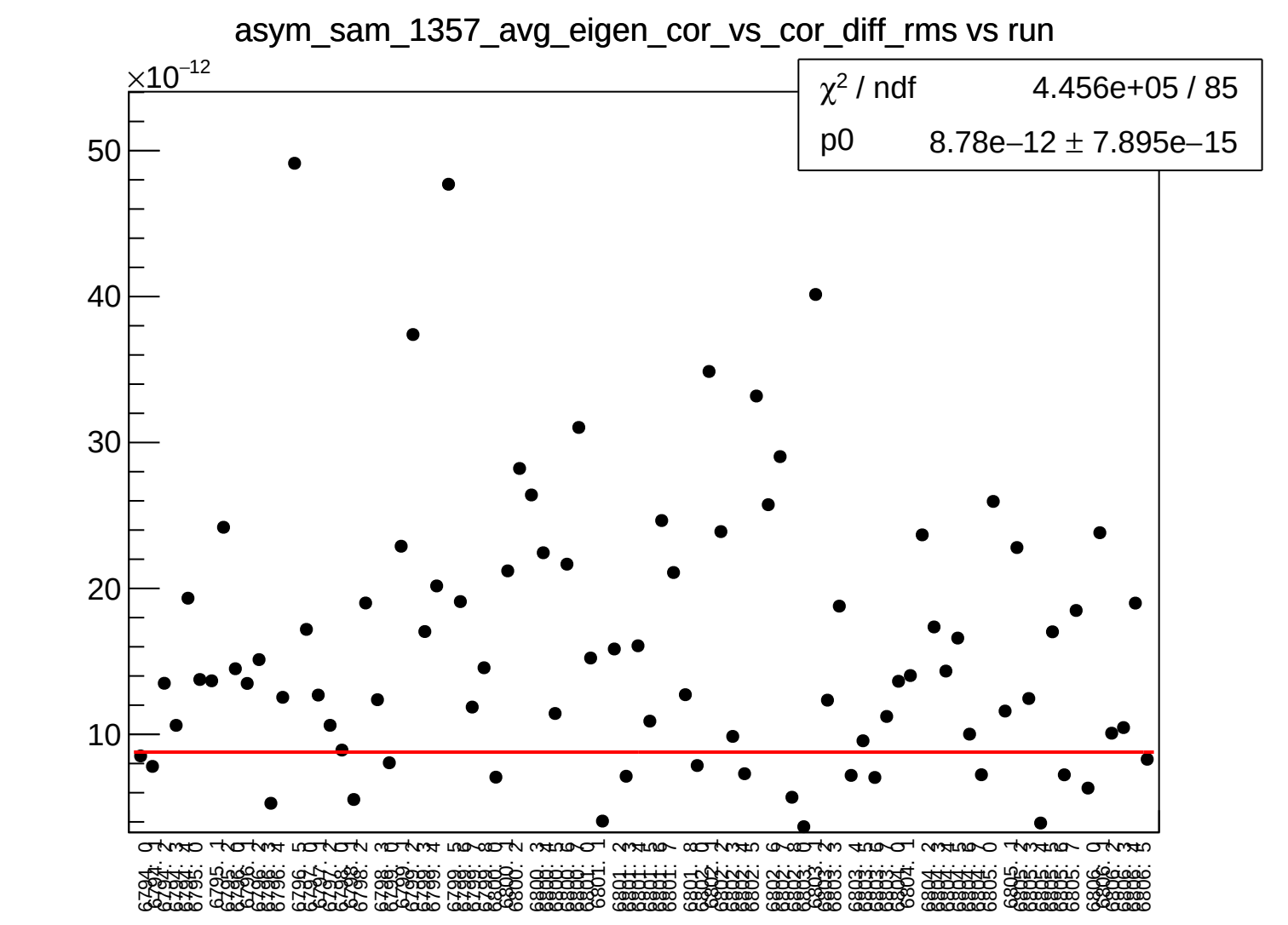

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ^2 / ndf 91.93 / 85
p0 −0.0425 ± 0.02949
pull
Entries 86
Mean 46.18
Std Dev 0

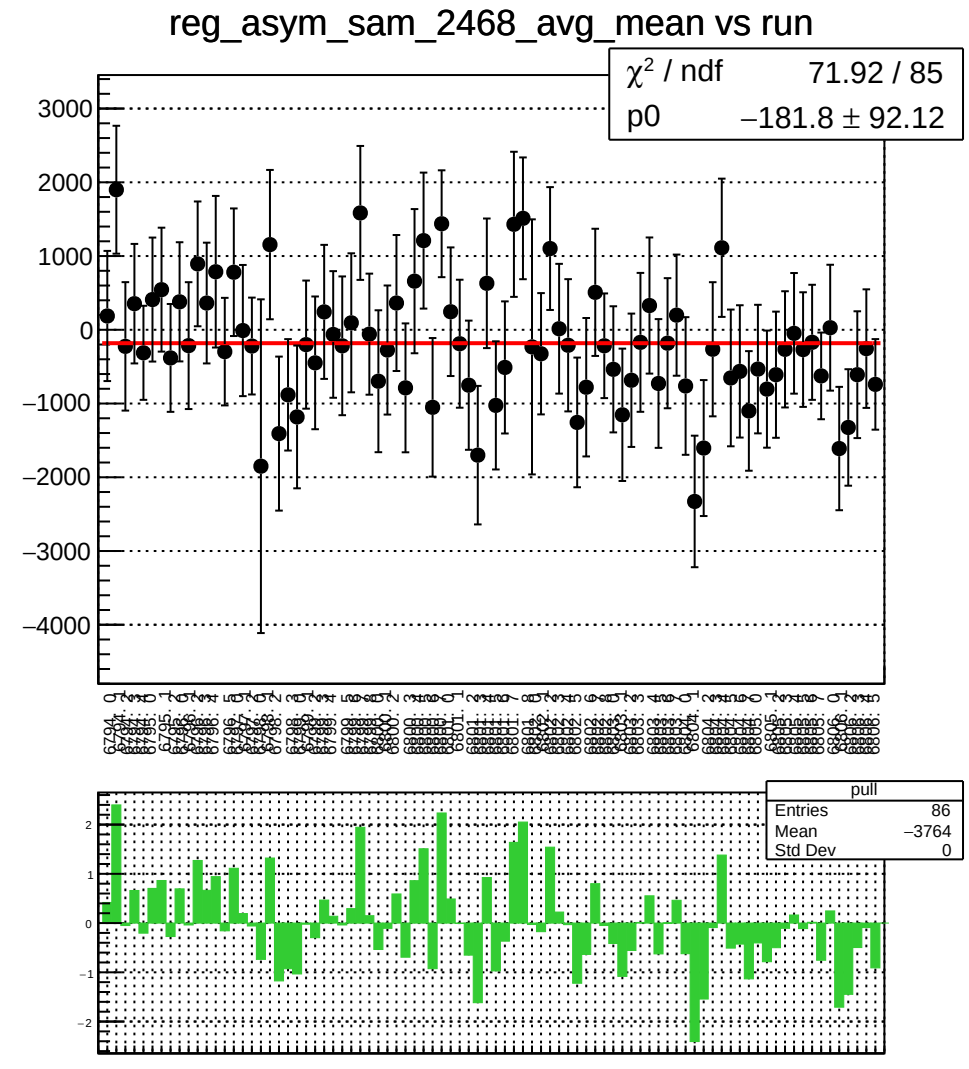

pull1D
Entries 86
Mean 0.03326
Std Dev 1.033

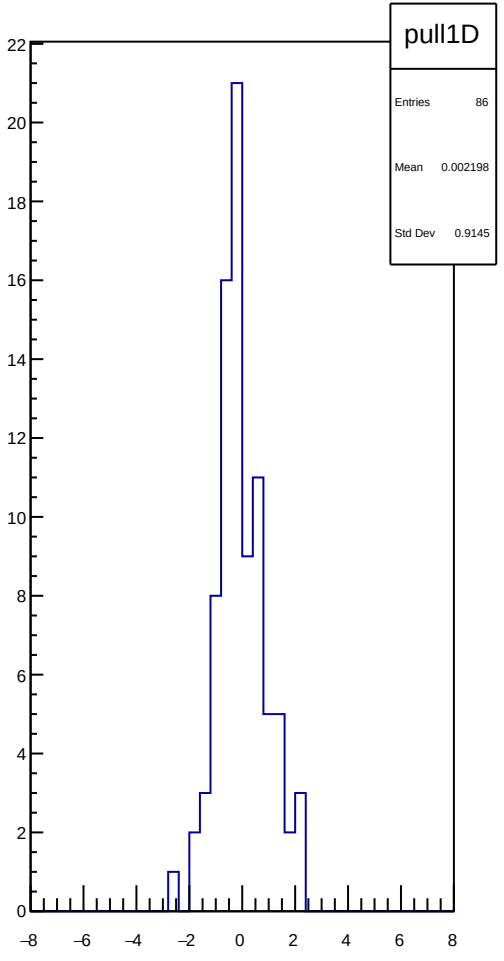

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.209e+05 / 85
p0 26.06 ± 0.02085
100
90
80
70
60
50
40
30
20
10

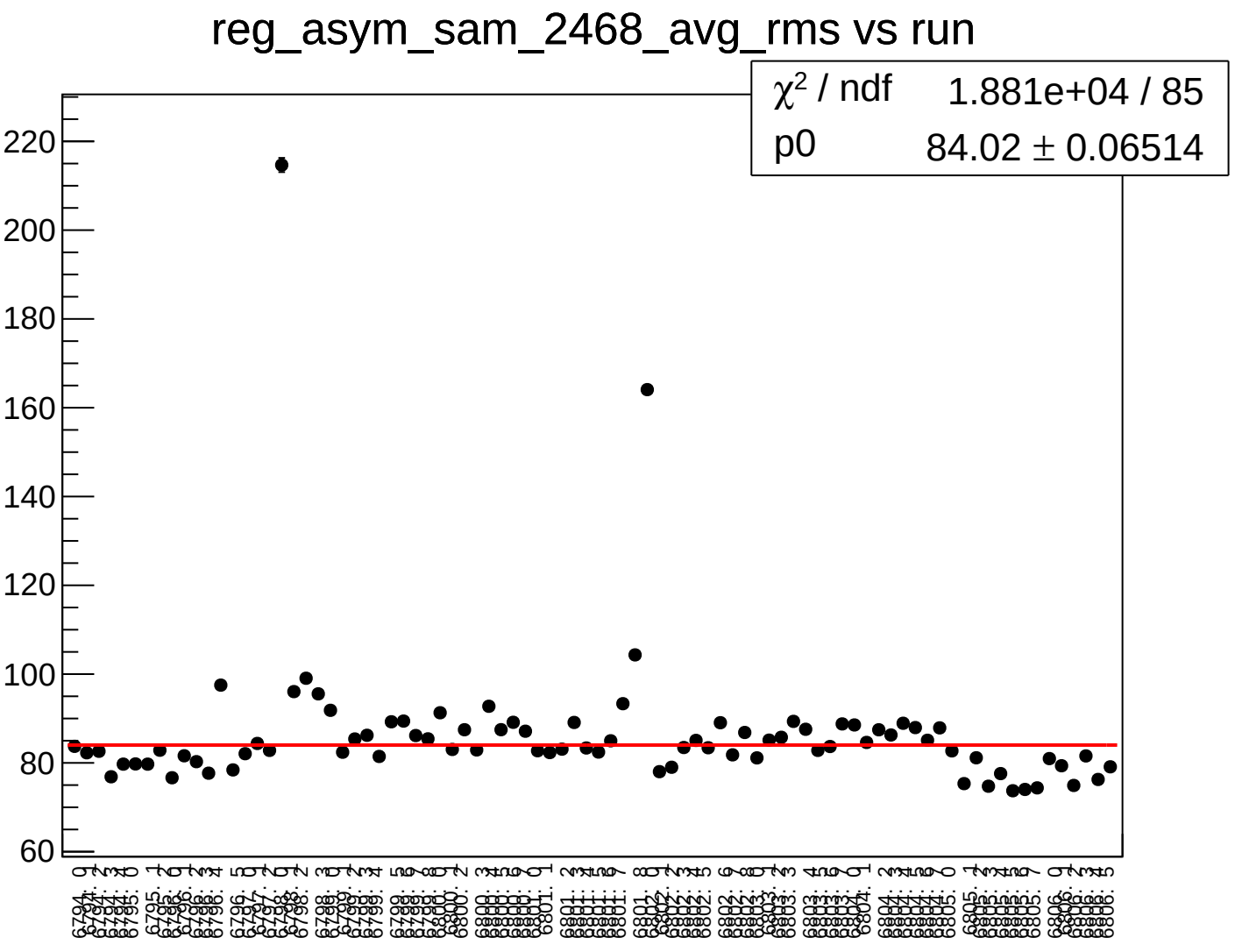

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 116.6 / 85
p0 −3.667e−15 ± 1.117e−14
pull
Entries 86
Mean 41.43
Std Dev 0

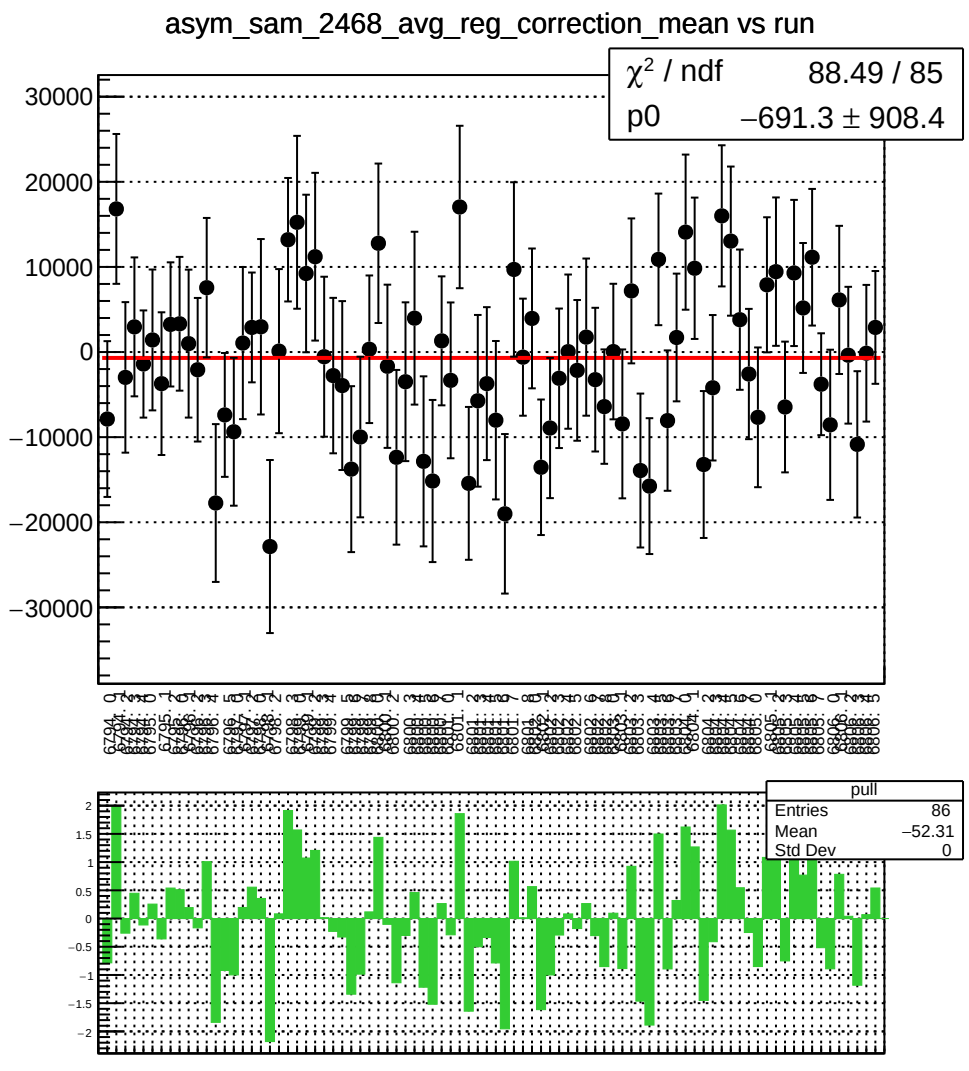

pull1D
Entries 86
Mean 0.08739
Std Dev 1.161

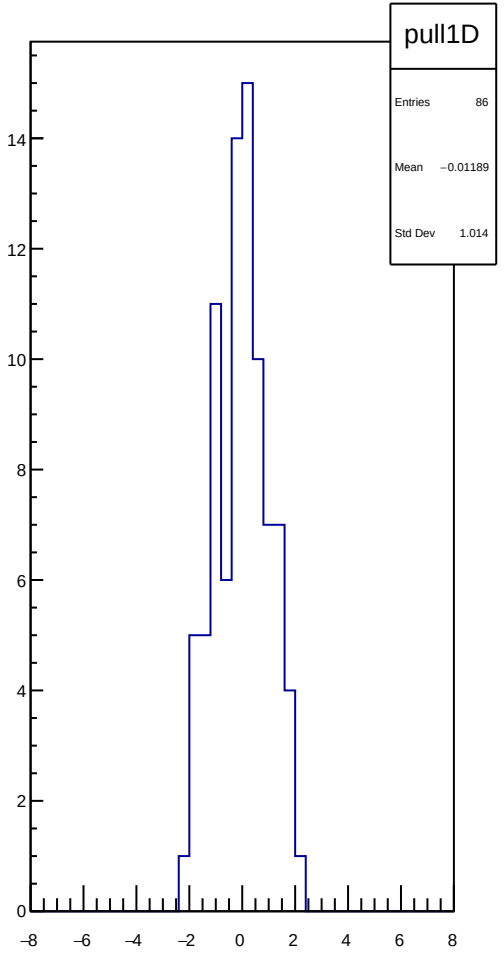

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.456e+05 / 85
p0 8.78e−12 ± 7.895e−15
50
40
30
20
10

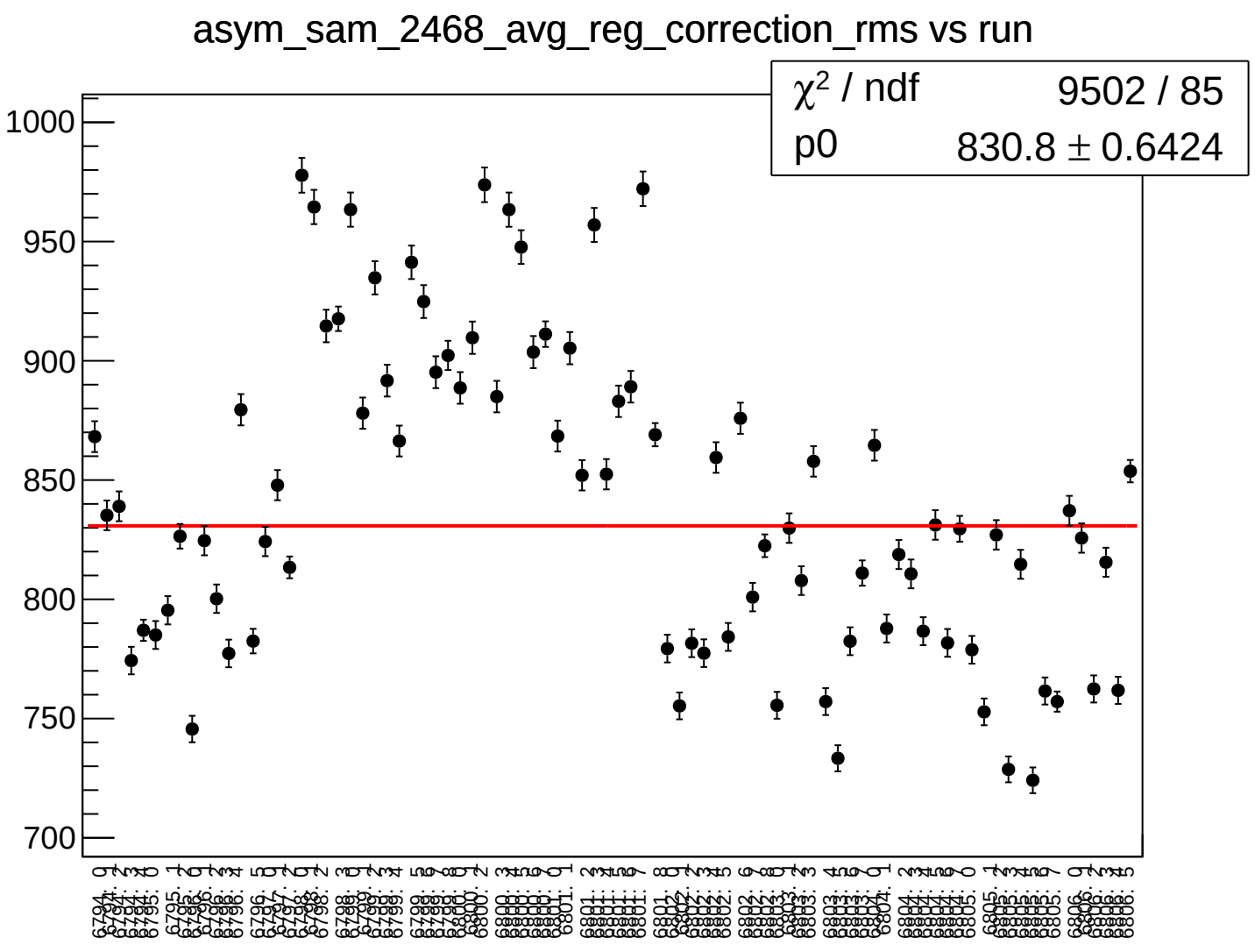

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 71.92 / 85
p0 −181.8 ± 92.12
pull
Entries 86
Mean −3764
Std Dev 0

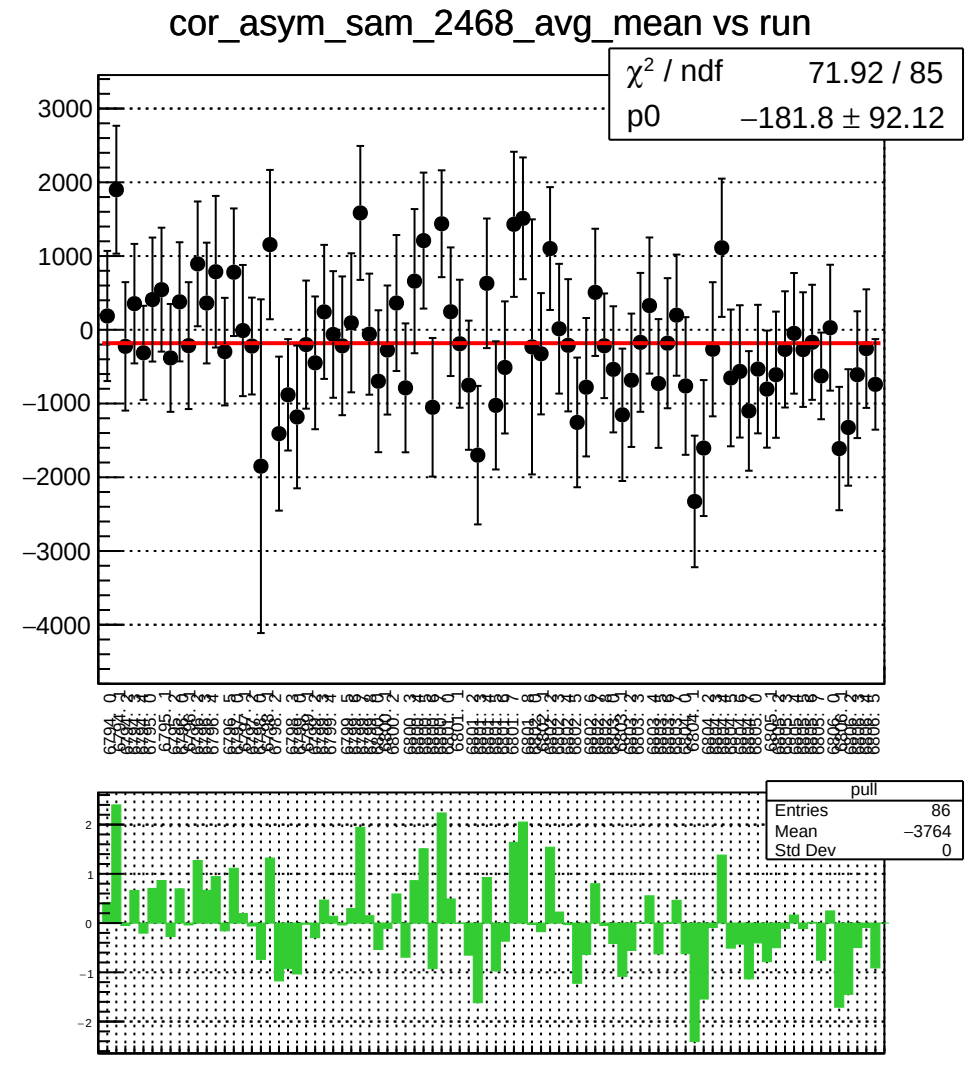

pull1D
Entries 86
Mean 0.002198
Std Dev 0.9145

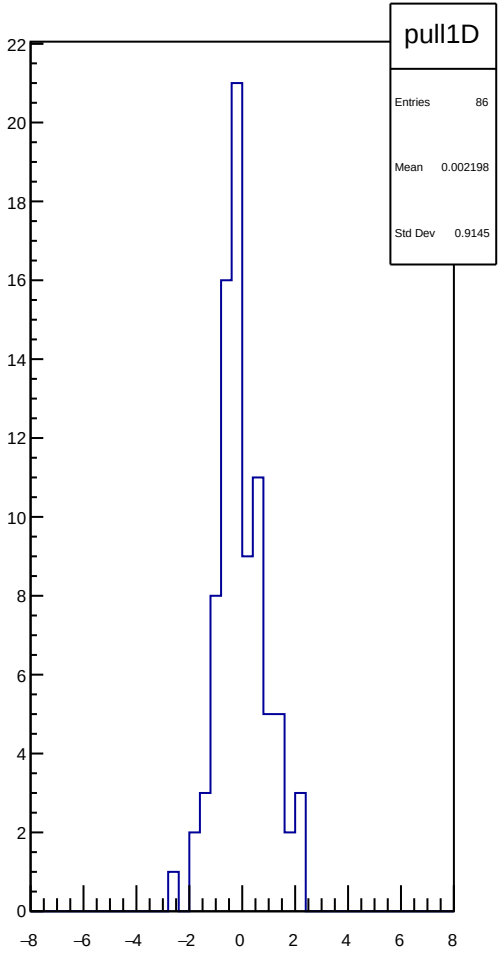

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 1.881e+04 / 85
p0 84.02 ± 0.06514
220
200
180
160
140
120
100
80
60

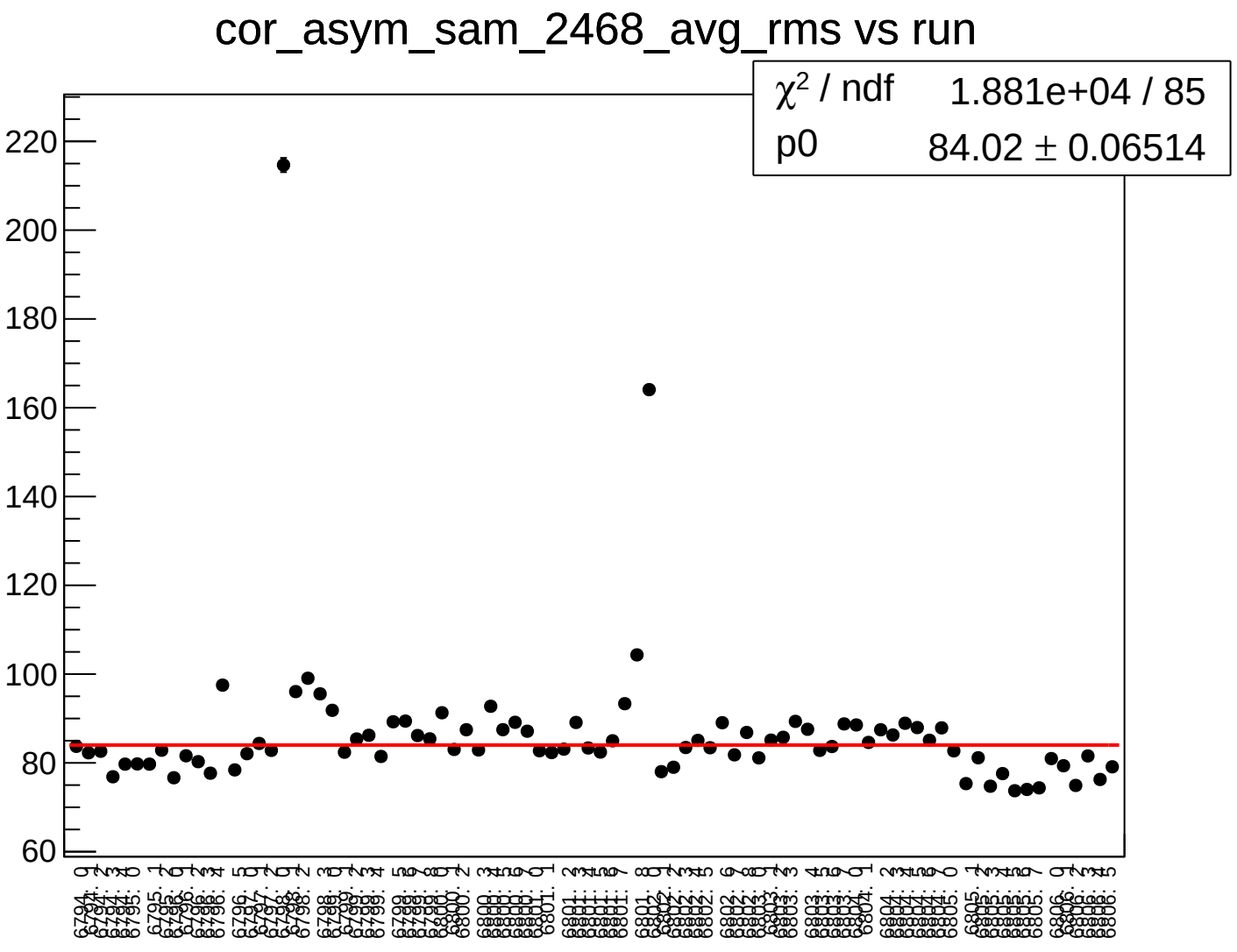

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 88.49 / 85
p0 −691.3 ± 908.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −52.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

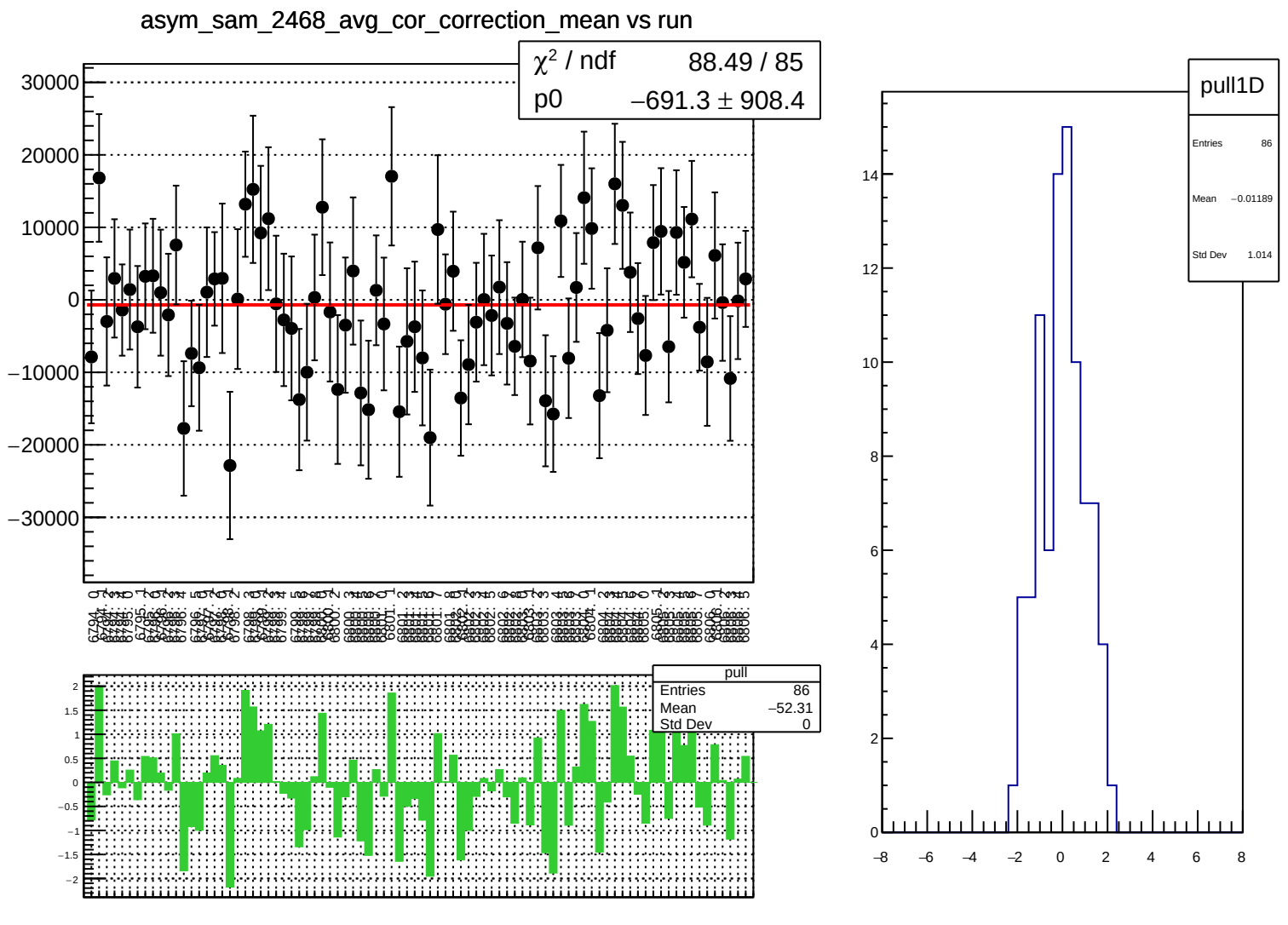

pull1D
Entries 86
Mean −0.01189
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

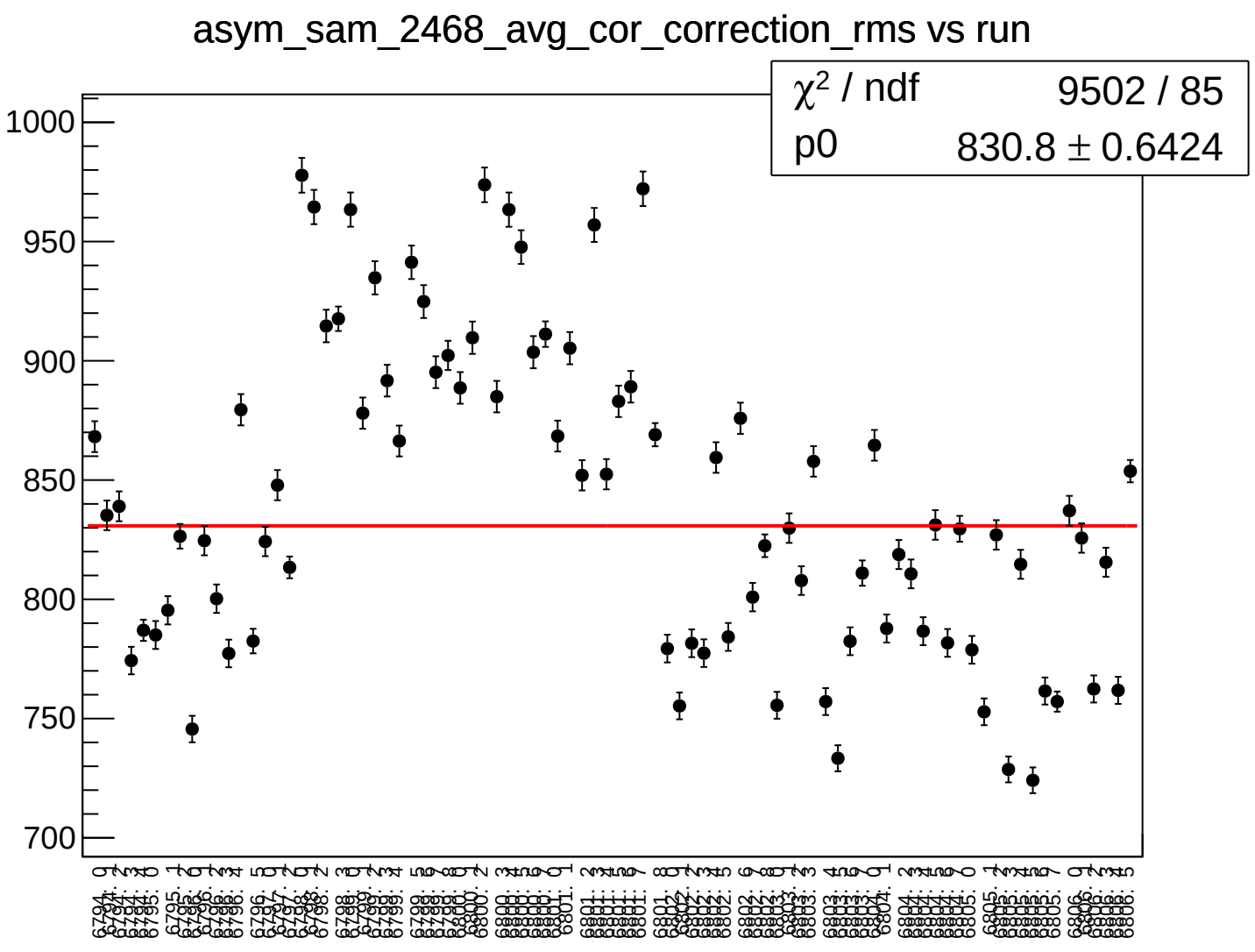

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 9502 / 85
p0 830.8 ± 0.6424
1000
950
900
850
800
750
700

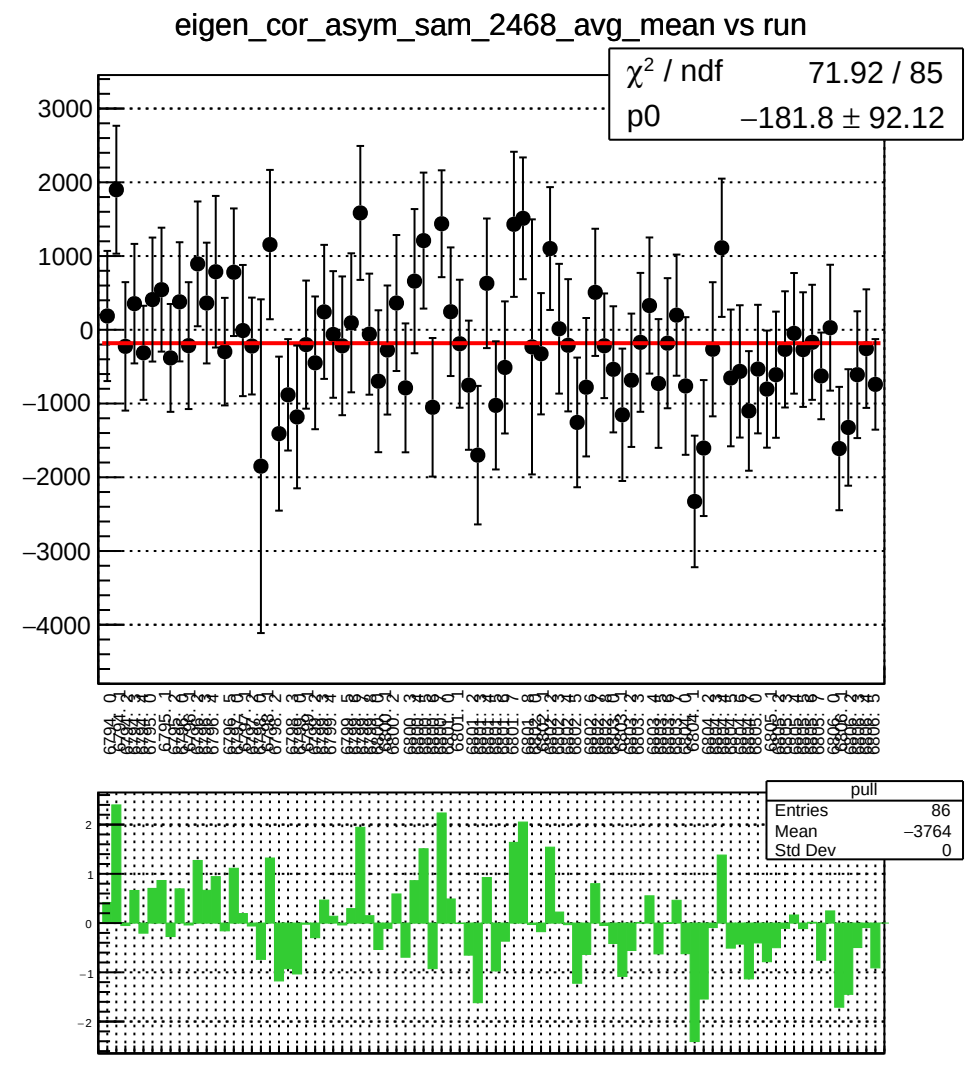

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 71.92 / 85
p0 −181.8 ± 92.12
pull
Entries 86
Mean −3764
Std Dev 0

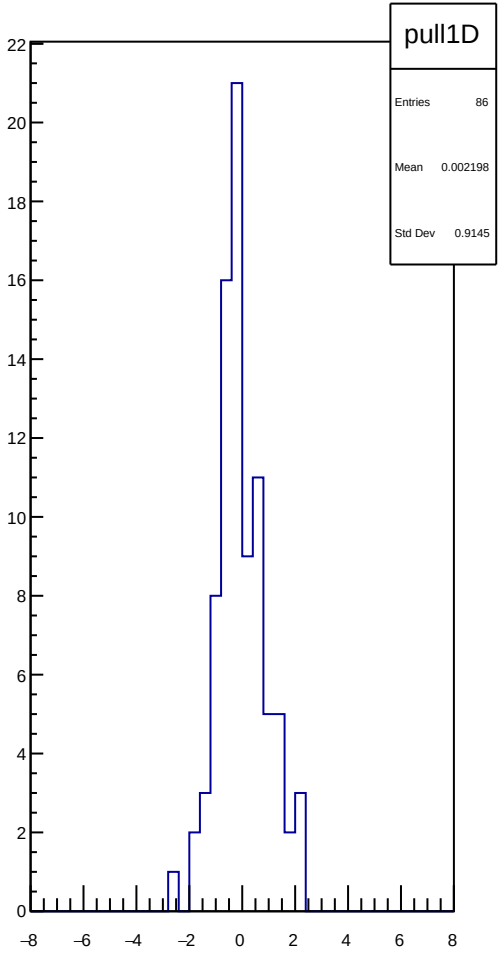

pull1D
Entries 86
Mean 0.002198
Std Dev 0.9145

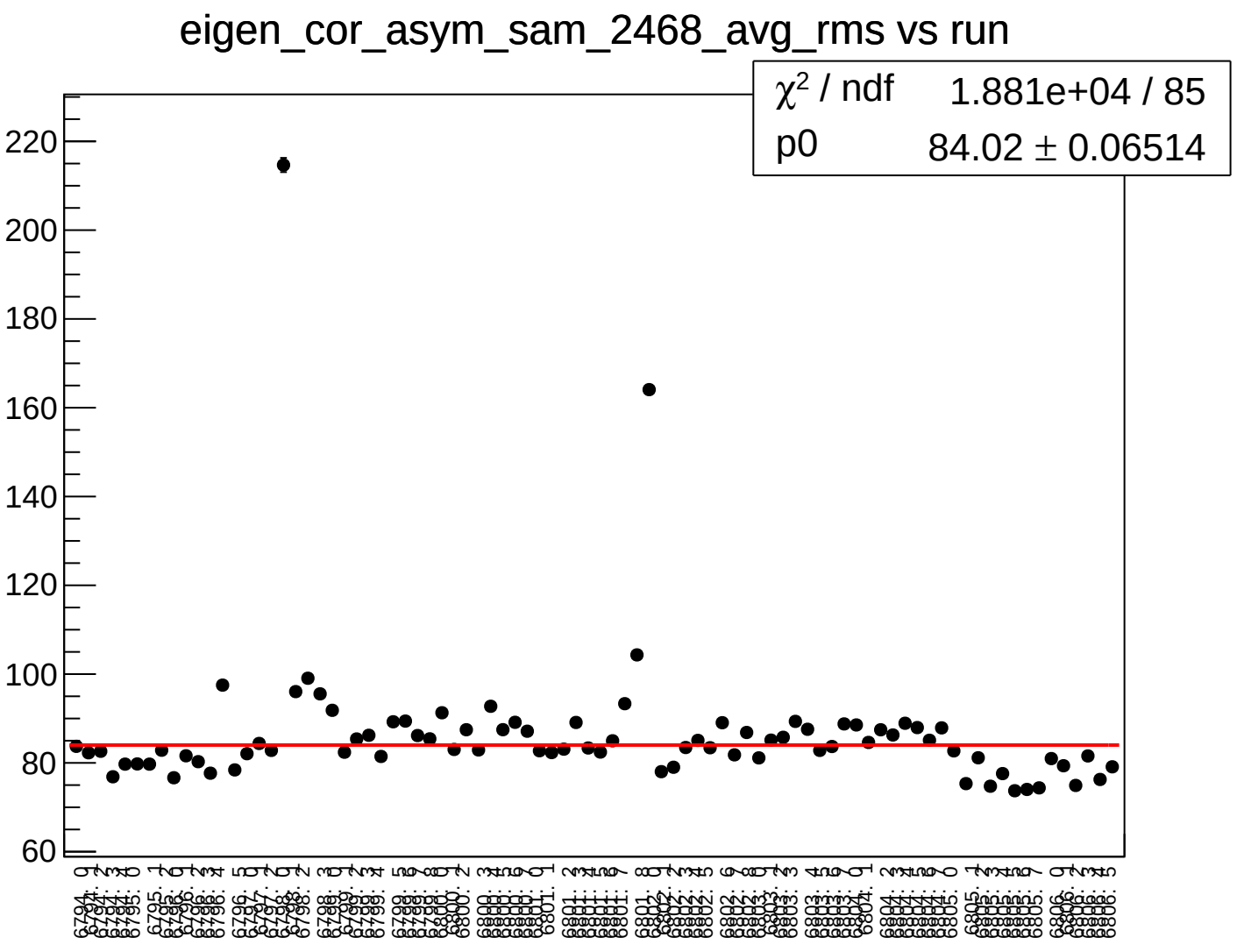

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.881e+04 / 85
p0 84.02 ± 0.06514
220
200
180
160
140
120
100
80
60

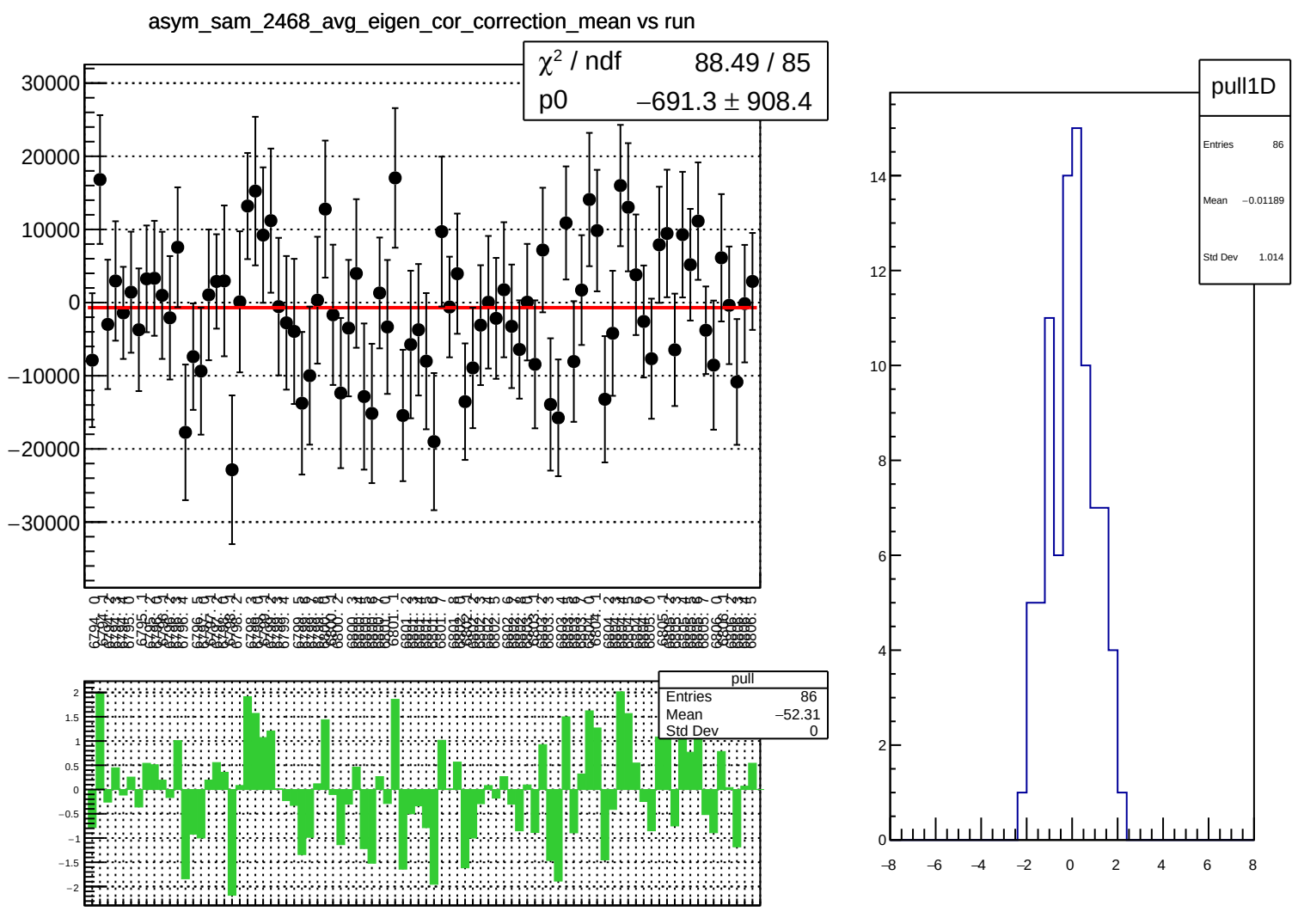

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 88.49 / 85
p0 −691.3 ± 908.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −52.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.01189
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

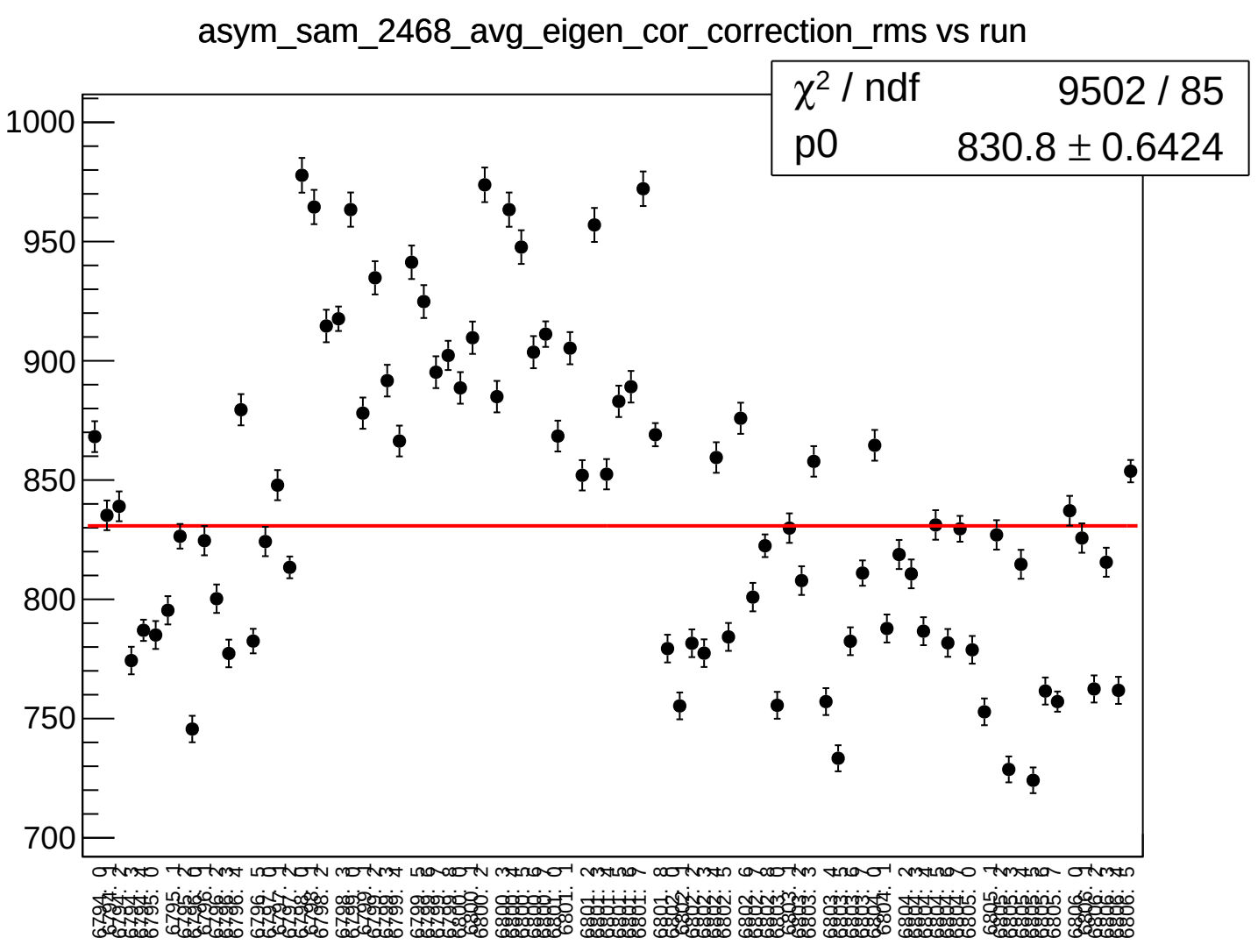

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 9502 / 85
p0 830.8 ± 0.6424
1000
950
900
850
800
750
700

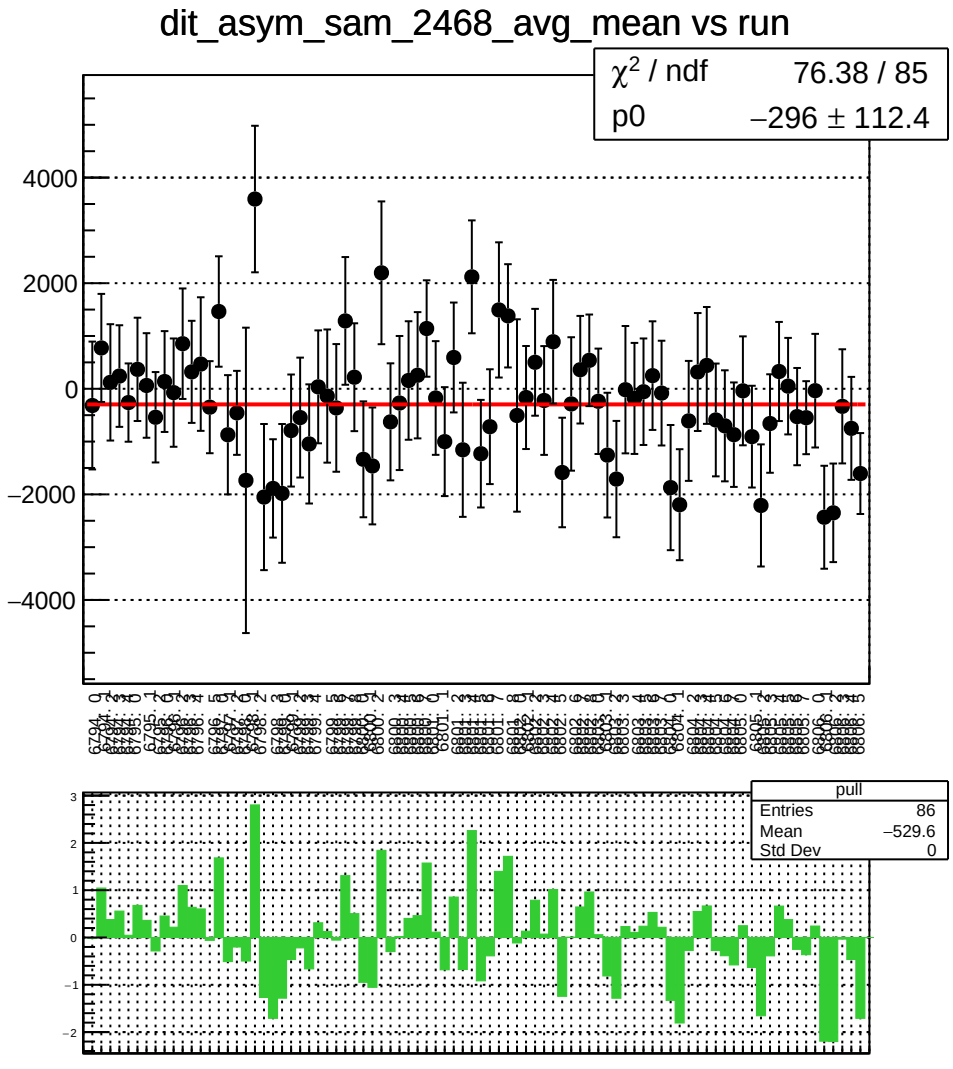

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 71.92 / 85
p0 −181.8 ± 92.12
pull
Entries 86
Mean −3764
Std Dev 0

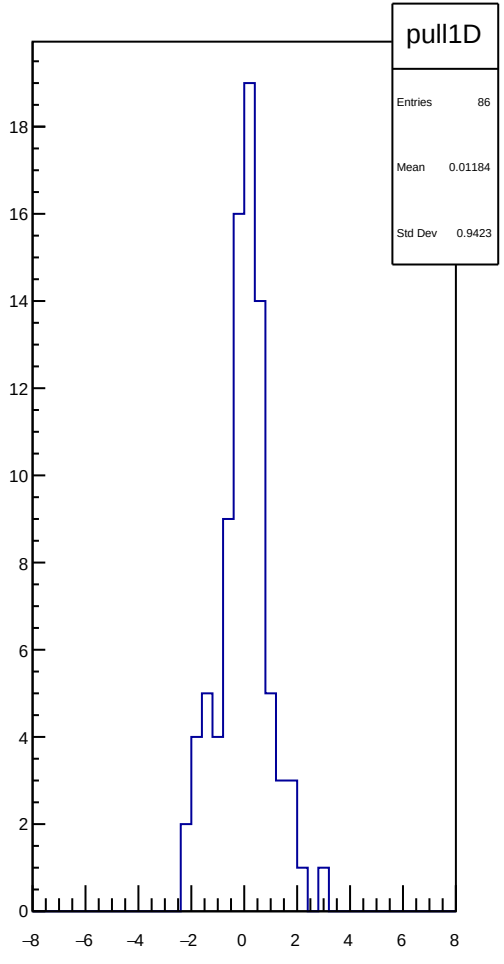

pull1D
Entries 86
Mean 0.002198
Std Dev 0.9145

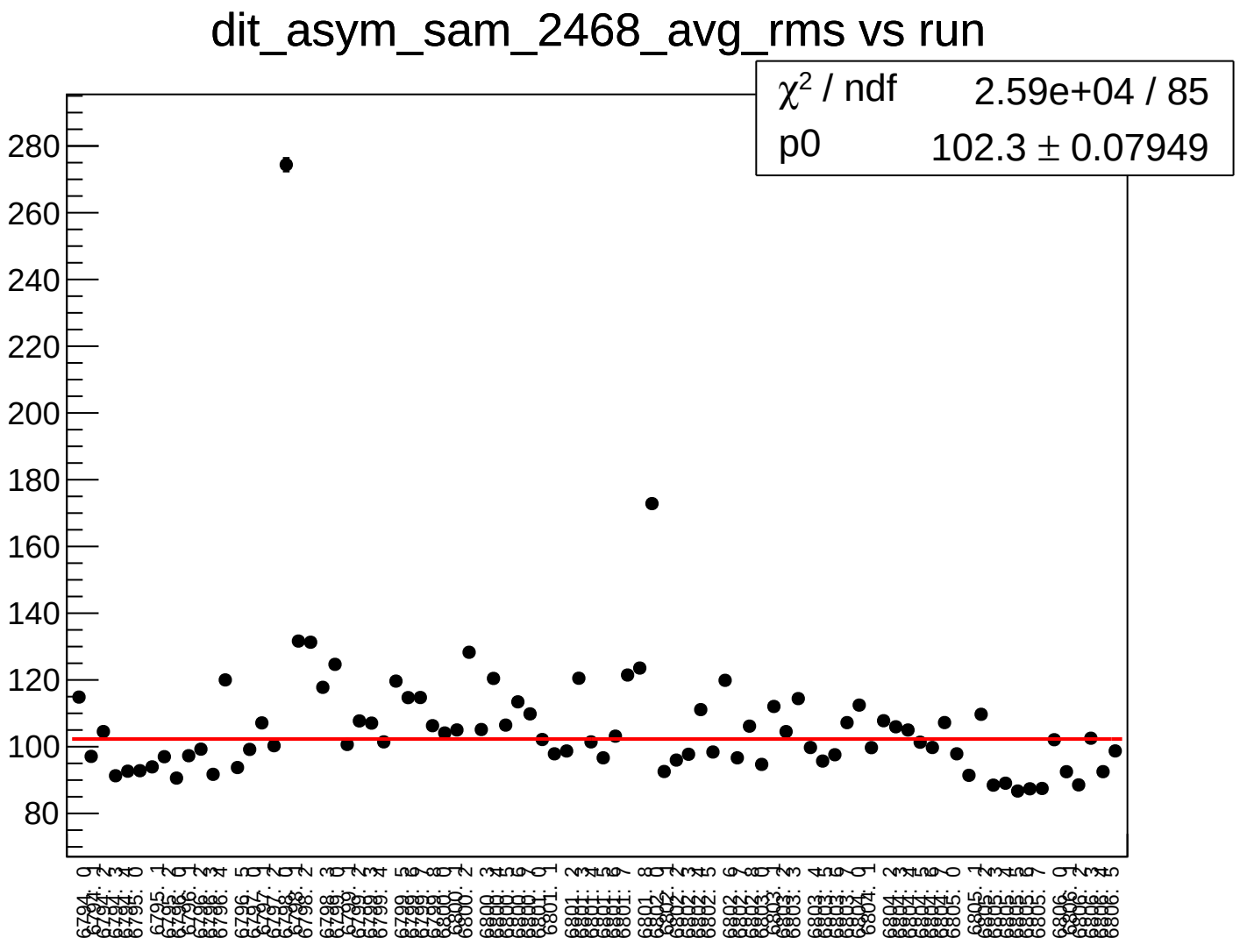

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 1.881e+04 / 85
p0 84.02 ± 0.06514
220
200
180
160
140
120
100
80
60

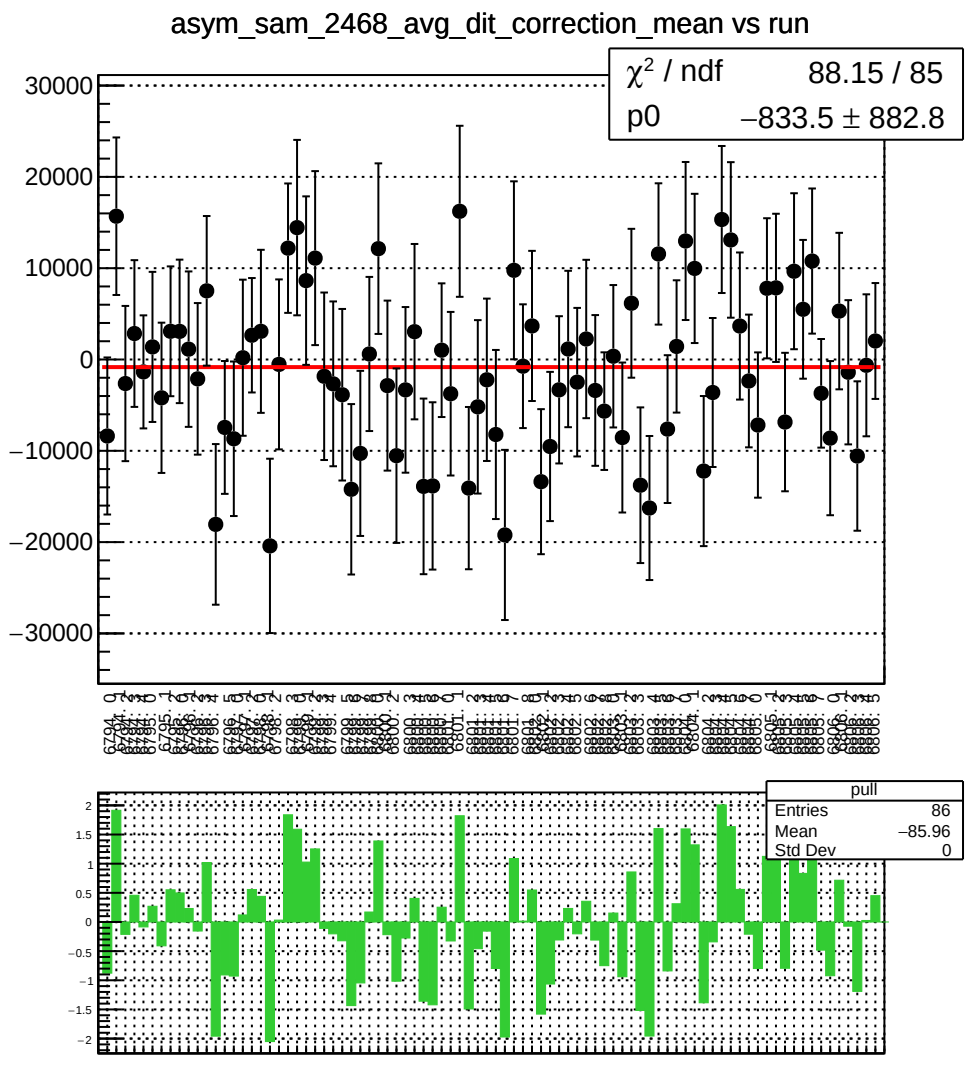

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.49 / 85
p0 −691.3 ± 908.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −52.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.01189
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

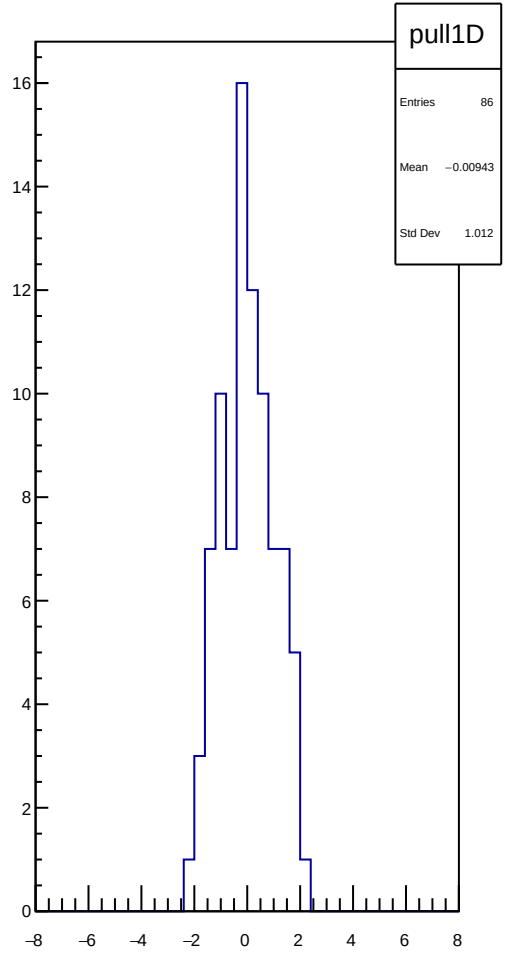

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 9502 / 85
p0 830.8 ± 0.6424
1000
950
900
850
800
750
700

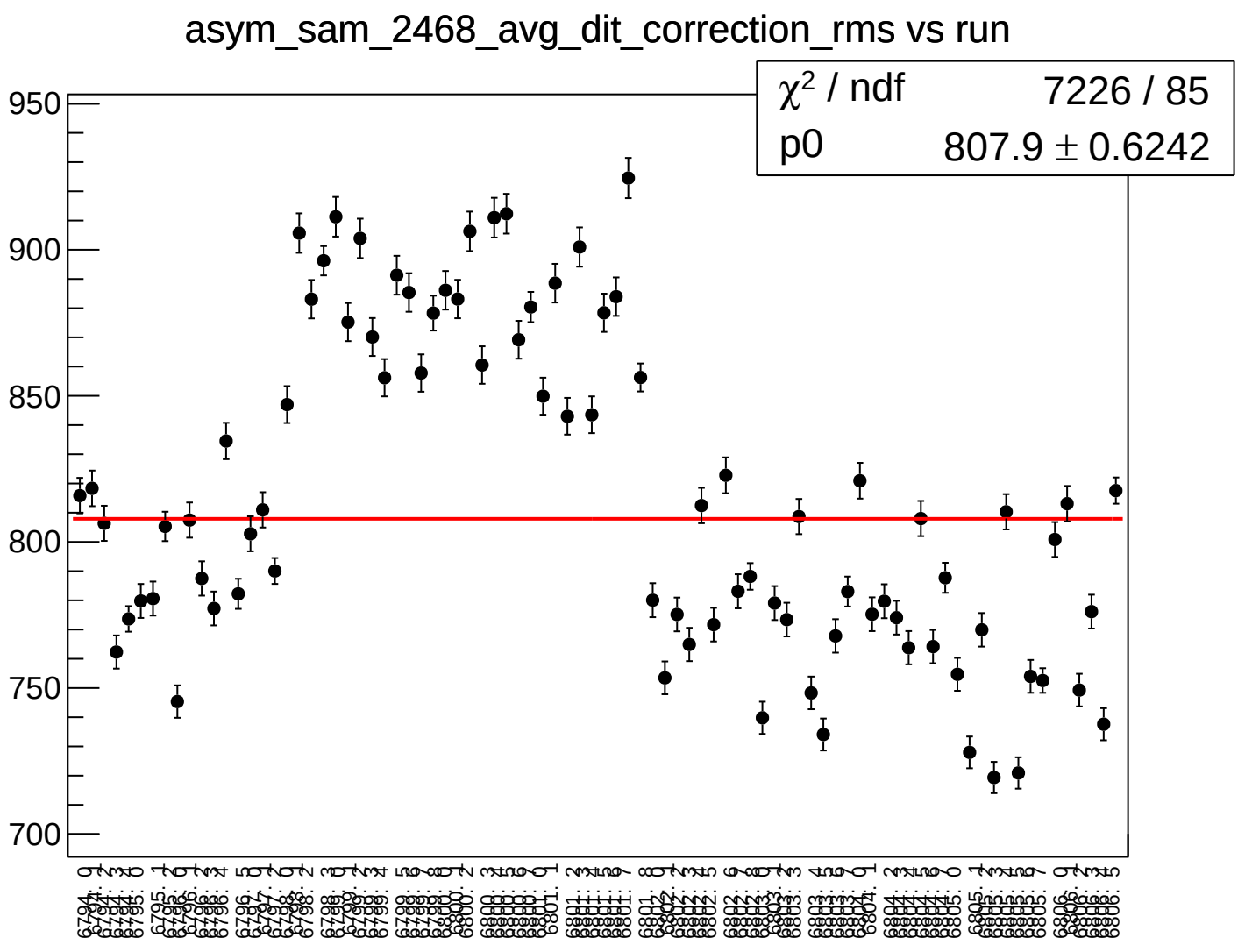

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 76.38 / 85
p0 −296 ± 112.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −529.6
Std Dev 0
3
2
1
0
−1
−2

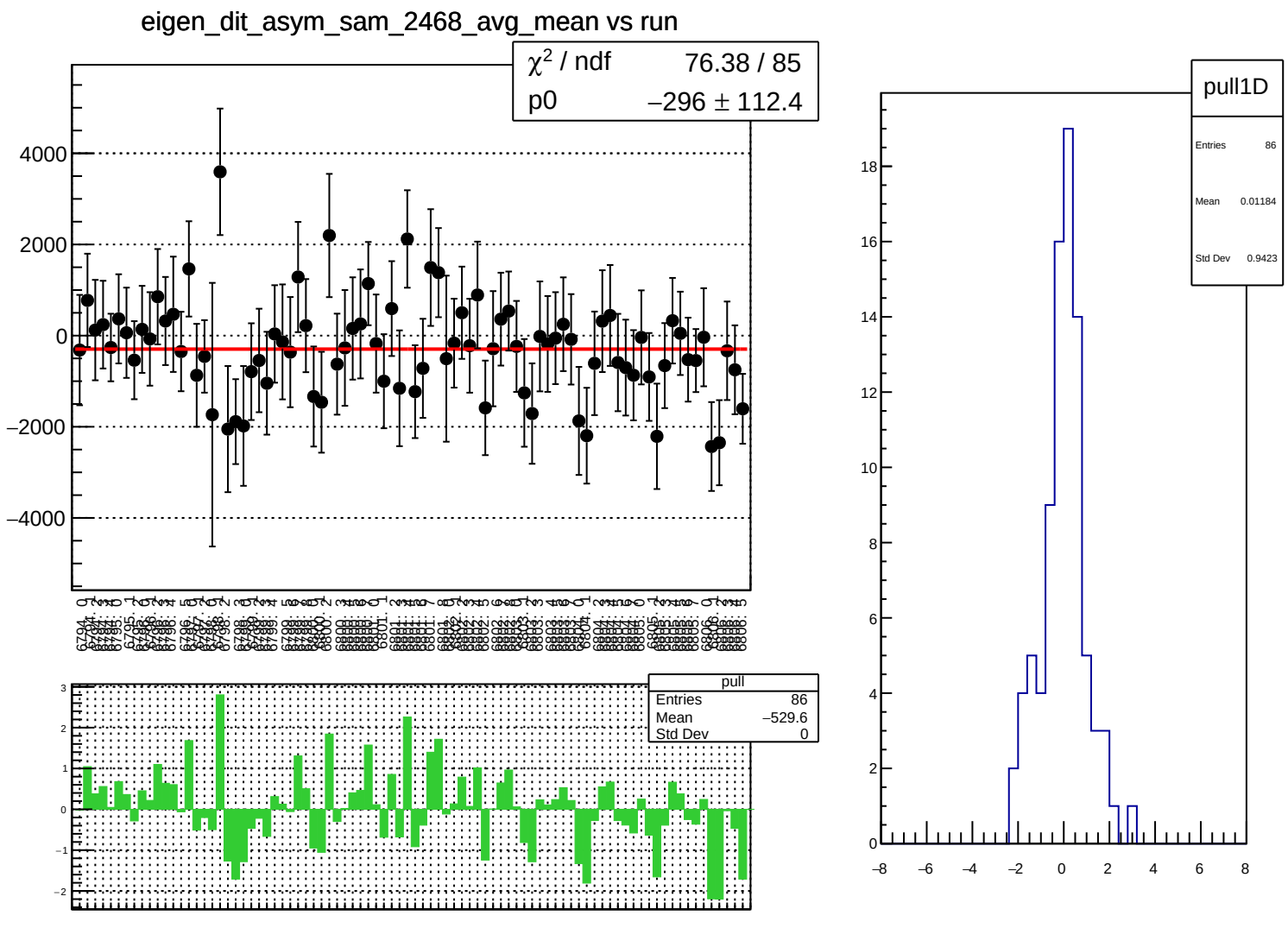

pull1D
Entries 86
Mean 0.01184
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

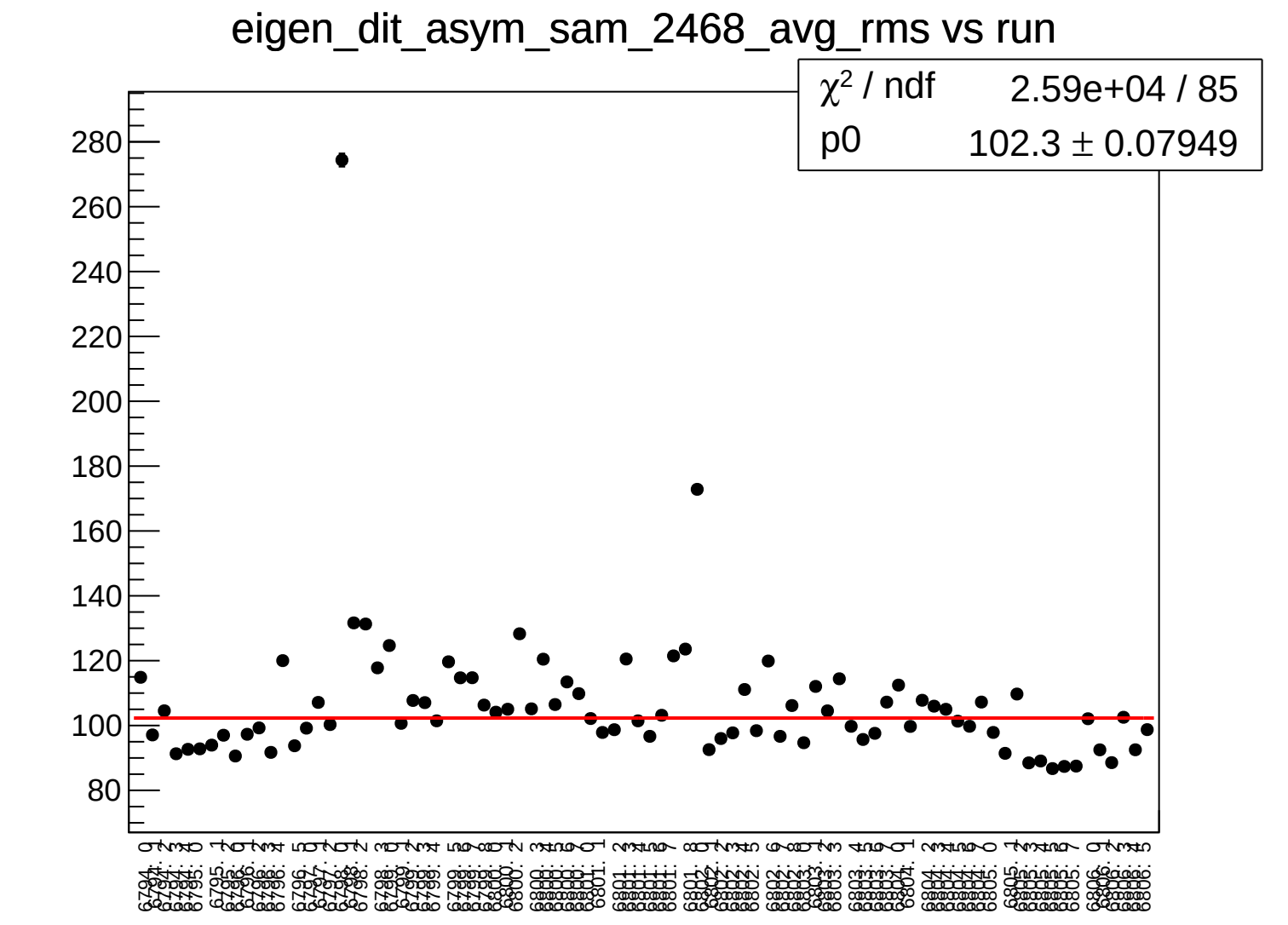

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.59e+04 / 85
p0 102.3 ± 0.07949
280
260
240
220
200
180
160
140
120
100
80

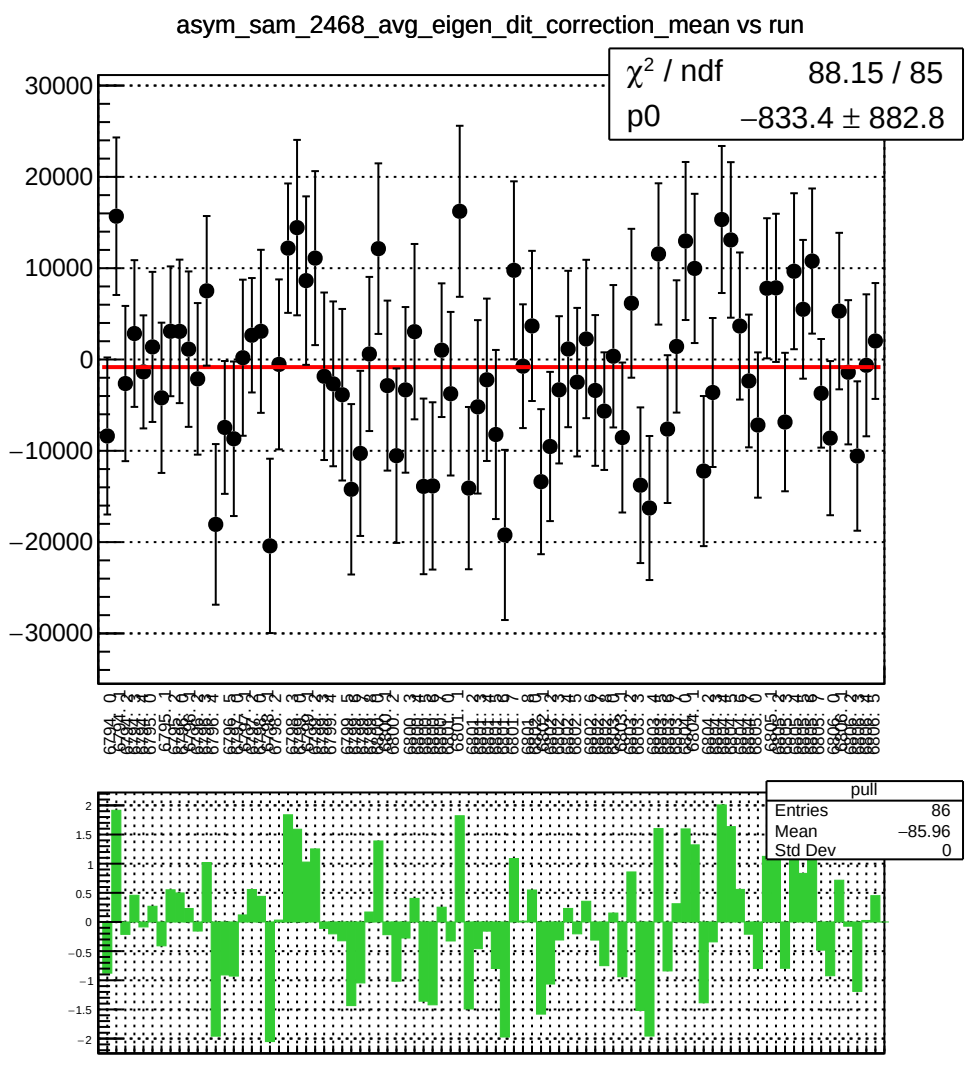

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 88.15 / 85
p0 −833.5 ± 882.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 86
Mean −85.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

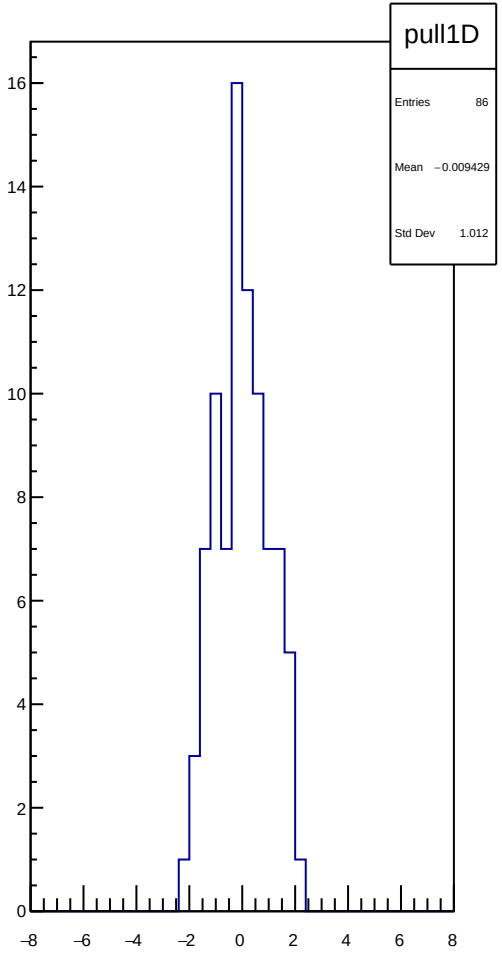

pull1D
Entries 86
Mean −0.00943
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

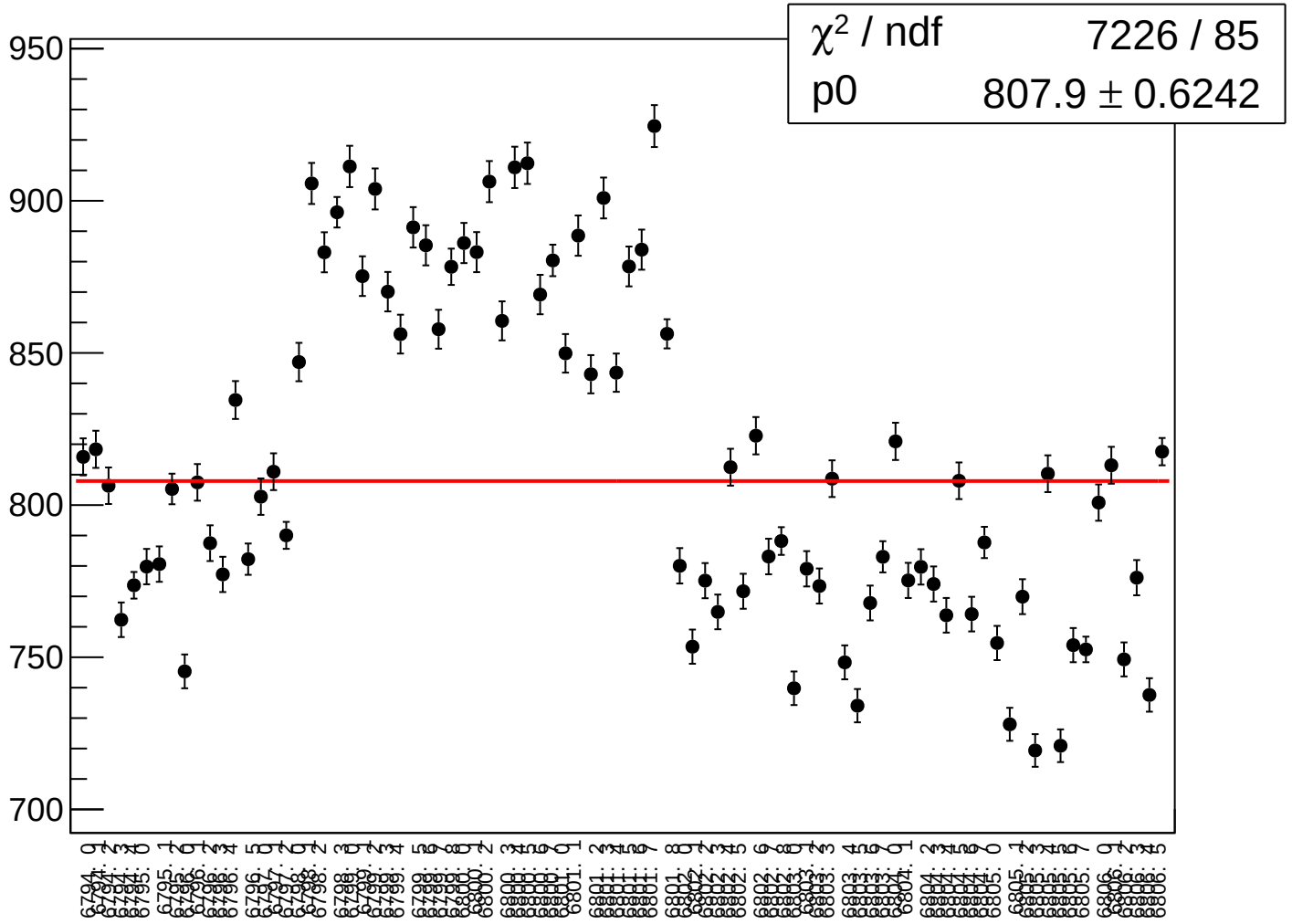

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 7226 / 85
p0 807.9 ± 0.6242
950
900
850
800
750
700

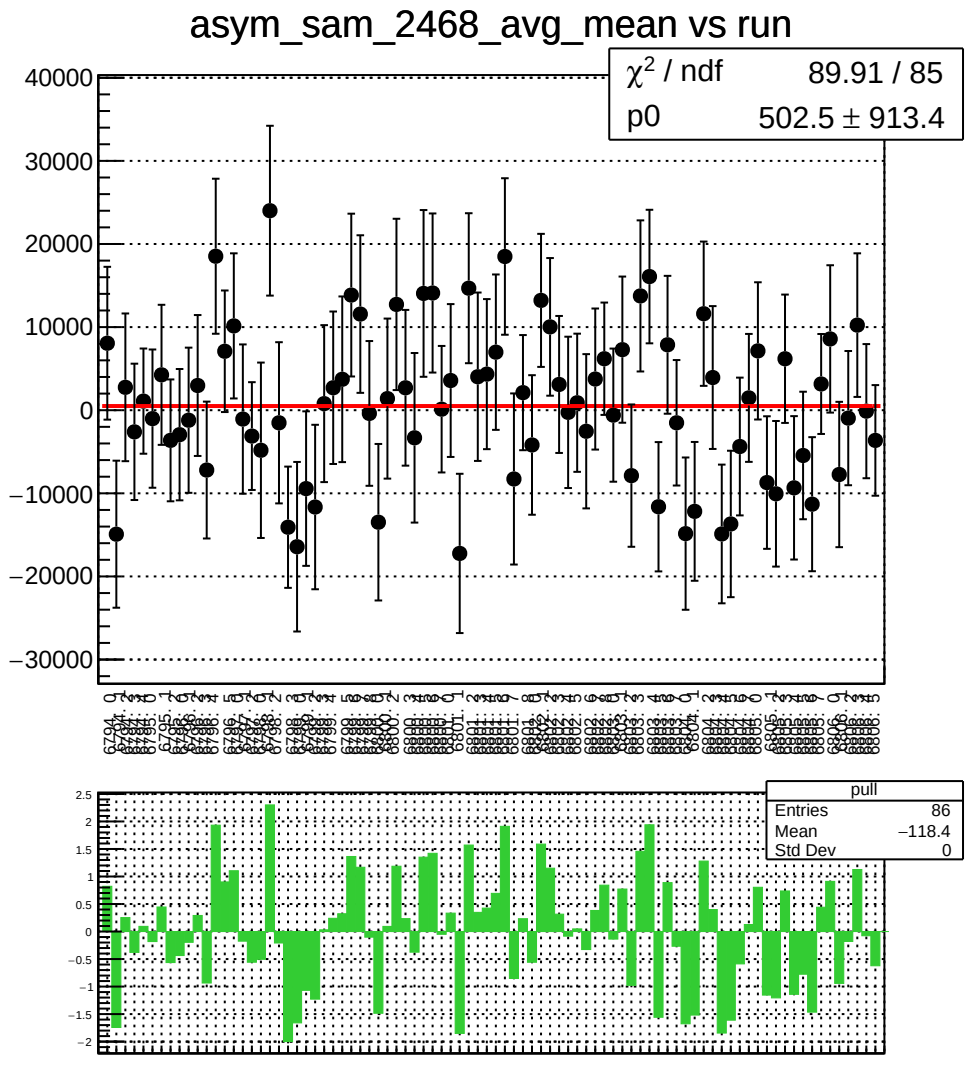

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 76.38 / 85
p0 −296 ± 112.4
4000
2000
0
−2000
−4000
pull
Entries 86
Mean −529.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01184
Std Dev 0.9423
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

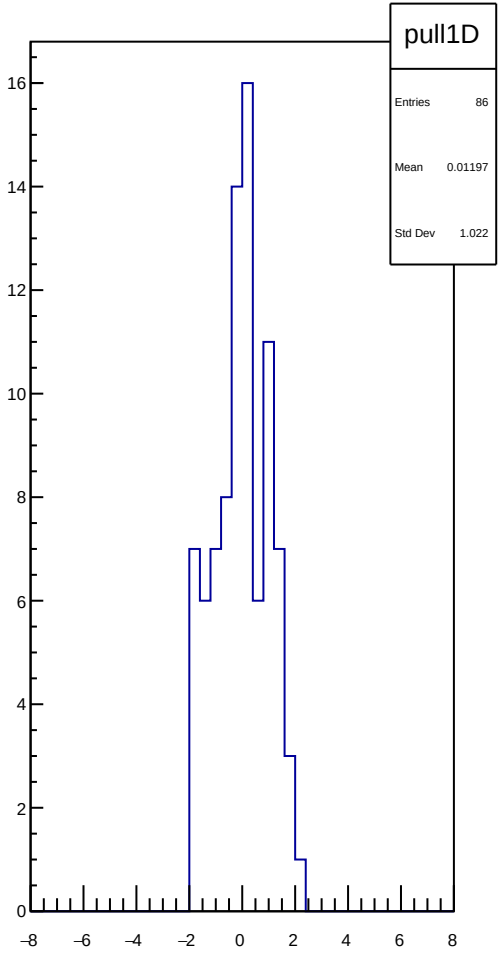

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.59e+04 / 85
p0 102.3 ± 0.07949
280
260
240
220
200
180
160
140
120
100
80

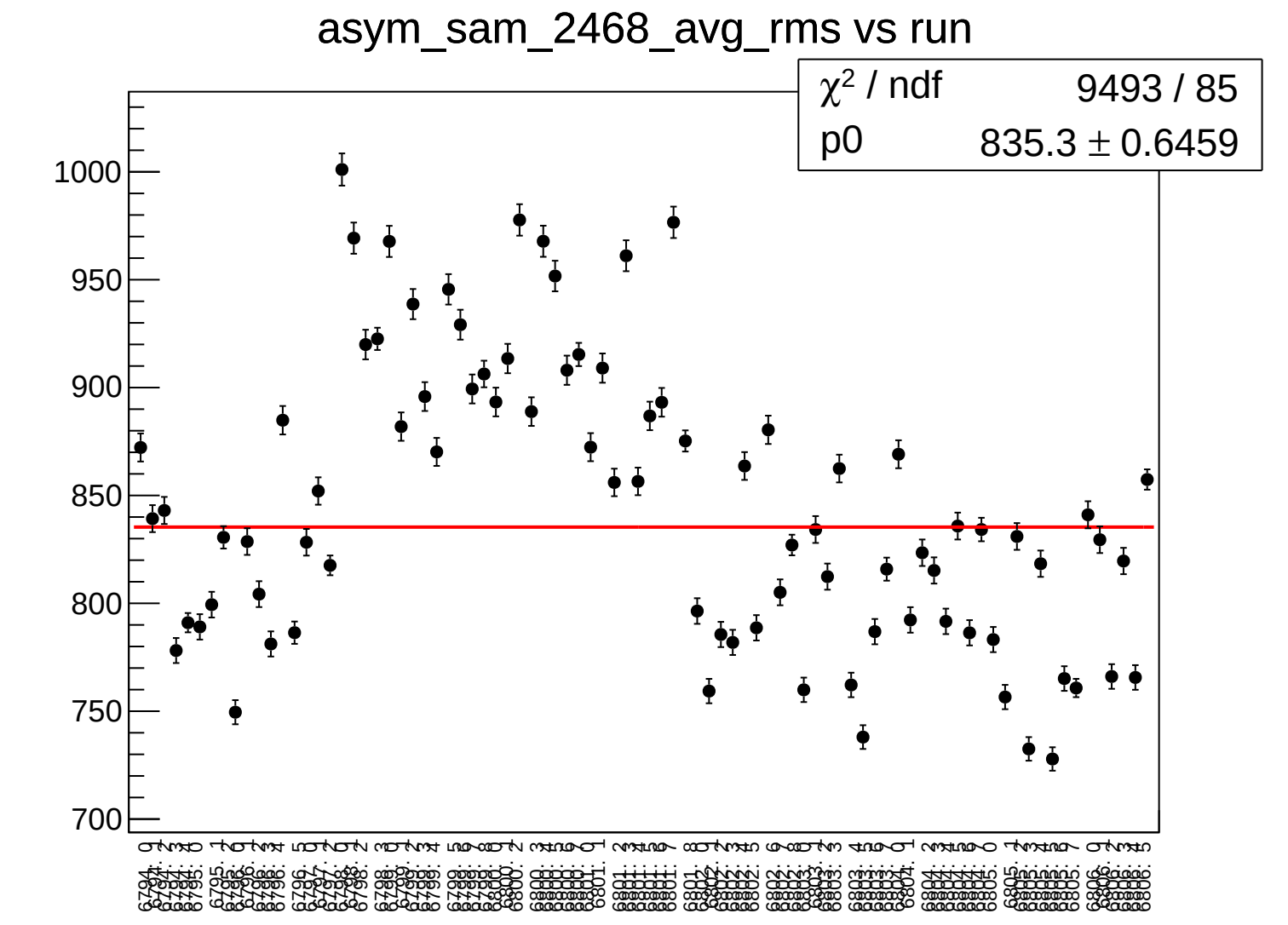

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.15 / 85
p0 −833.4 ± 882.8
pull
Entries 86
Mean −85.96
Std Dev 0

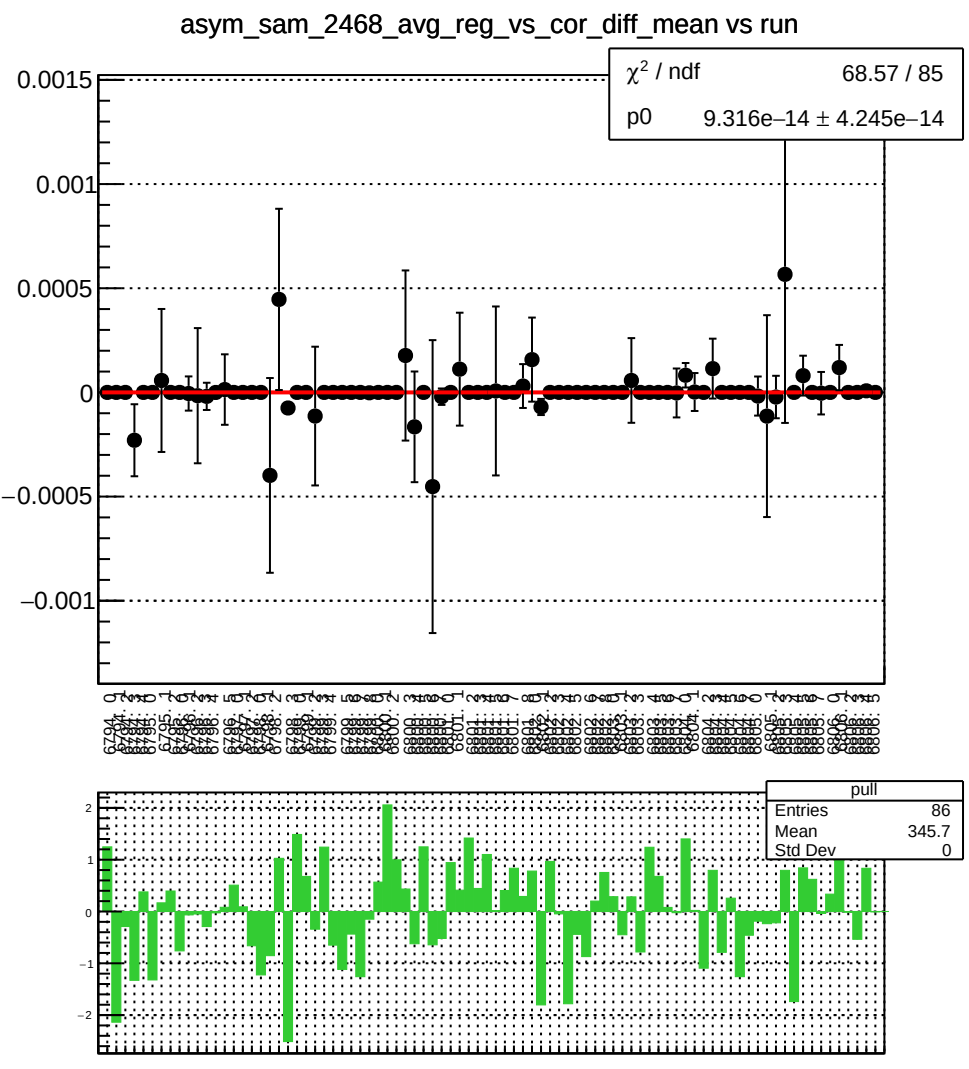

pull1D
Entries 86
Mean −0.009429
Std Dev 1.012

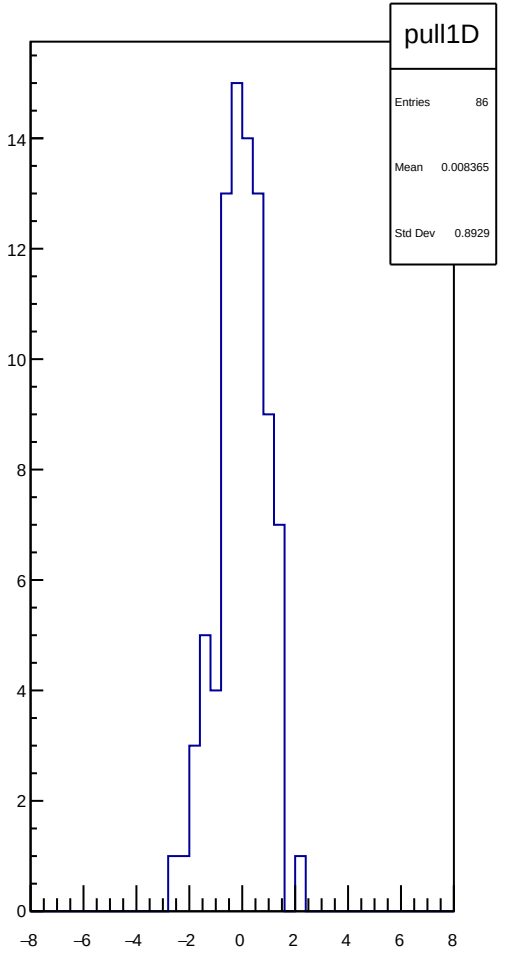

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 7226 / 85
p0 807.9 ± 0.6242
950
900
850
800
750
700

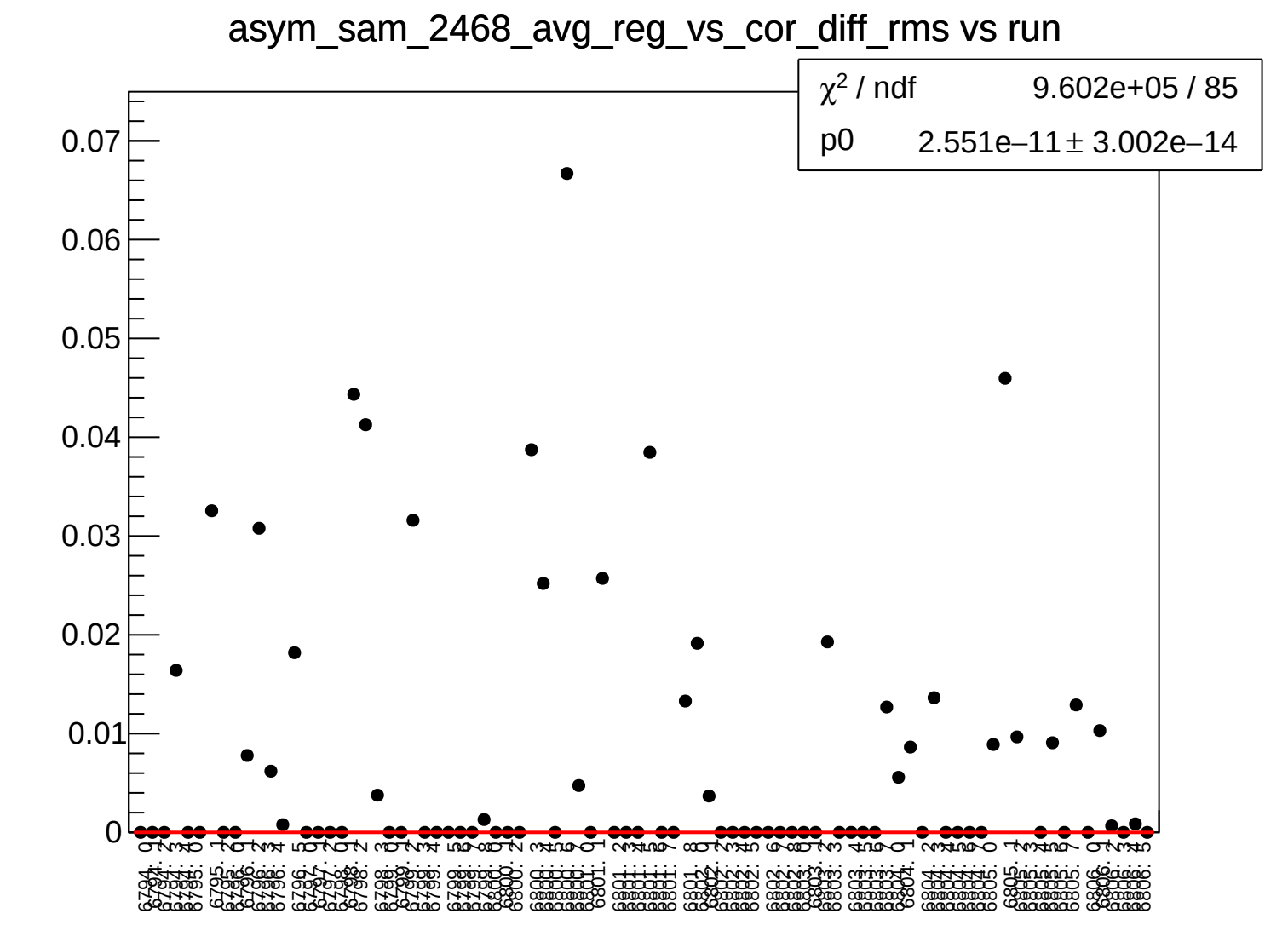

asym_sam_2468_avg_mean vs run
χ² / ndf 89.91 / 85
p0 502.5 ± 913.4
pull
Entries 86
Mean −118.4
Std Dev 0

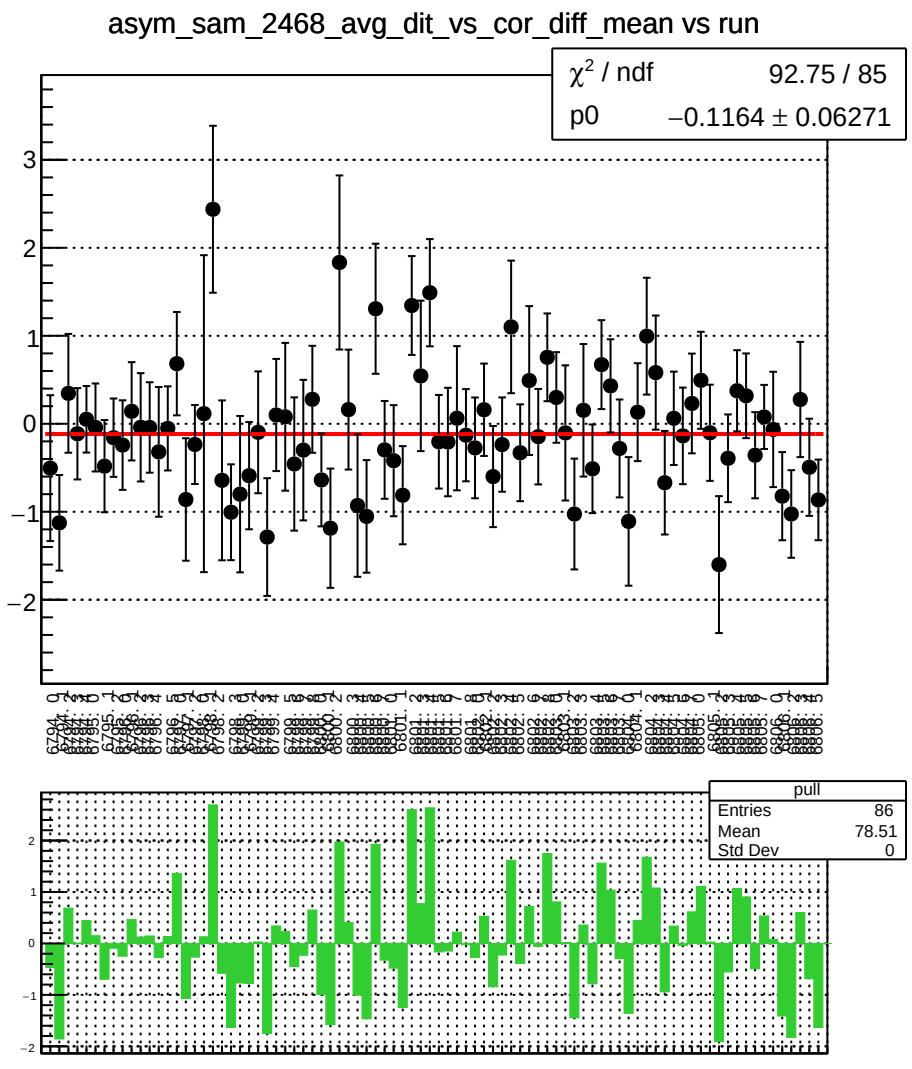

pull1D
Entries 86
Mean 0.01197
Std Dev 1.022

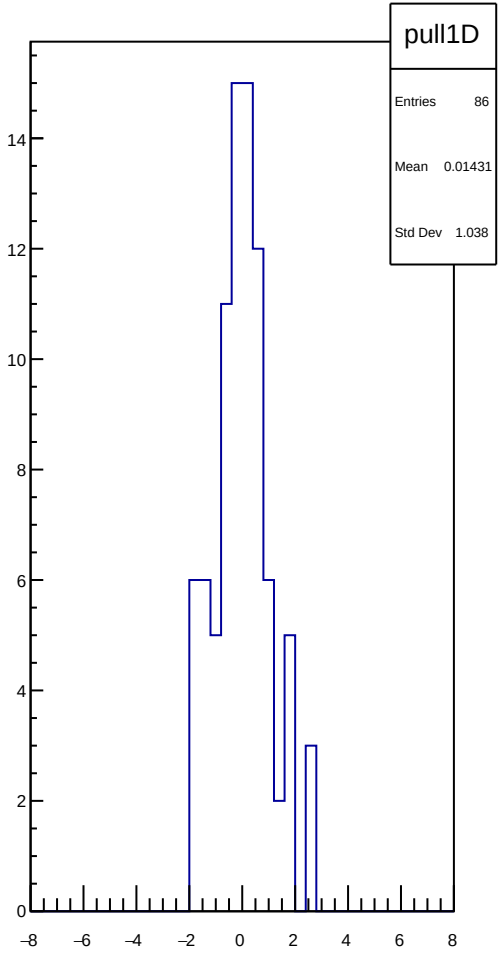

asym_sam_2468_avg_rms vs run
χ² / ndf 9493 / 85
p0 835.3 ± 0.6459
1000
950
900
850
800
750
700

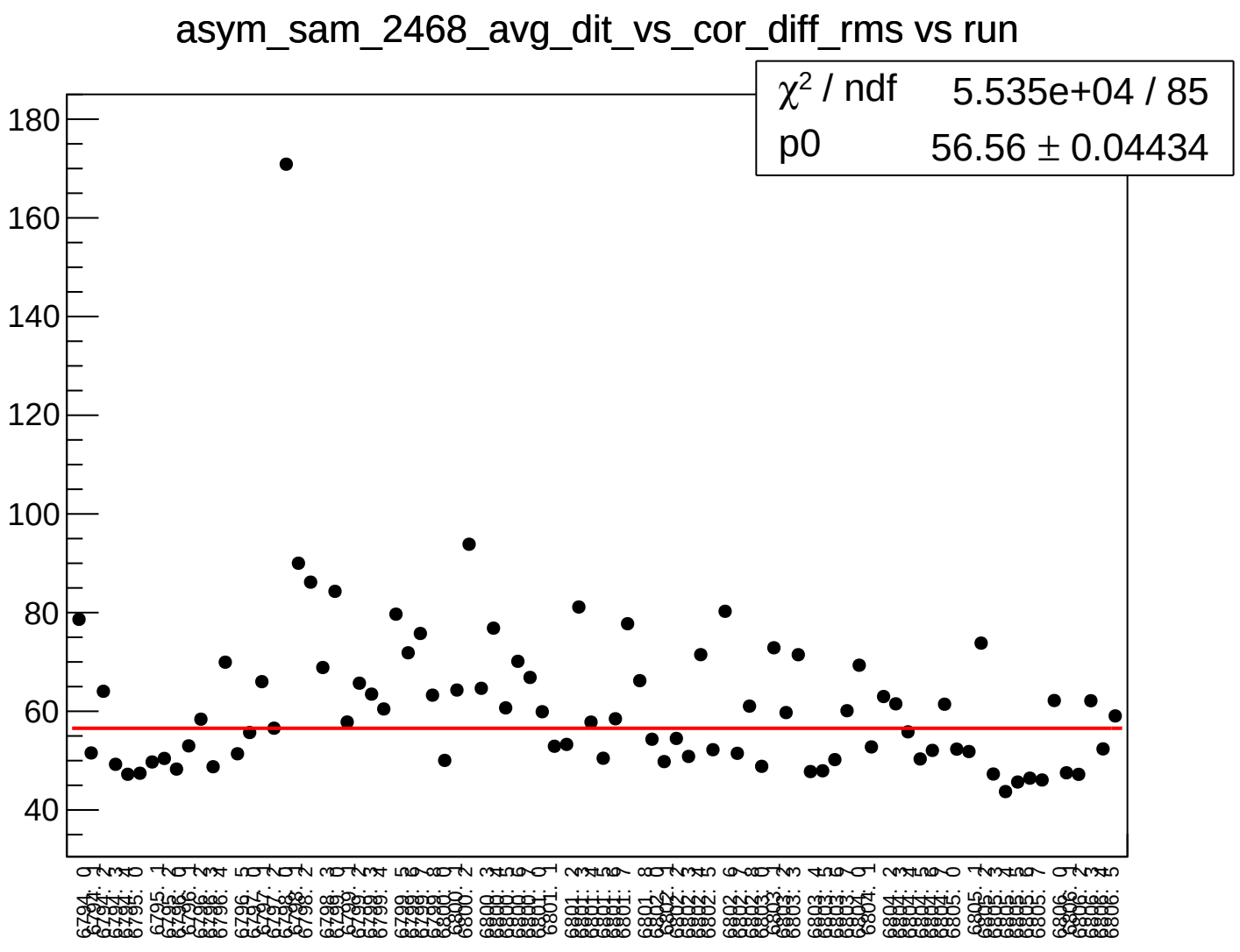

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 68.57 / 85
p0 9.316e−14 ± 4.245e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean 345.7
Std Dev 0
2
1
0
−1
−2

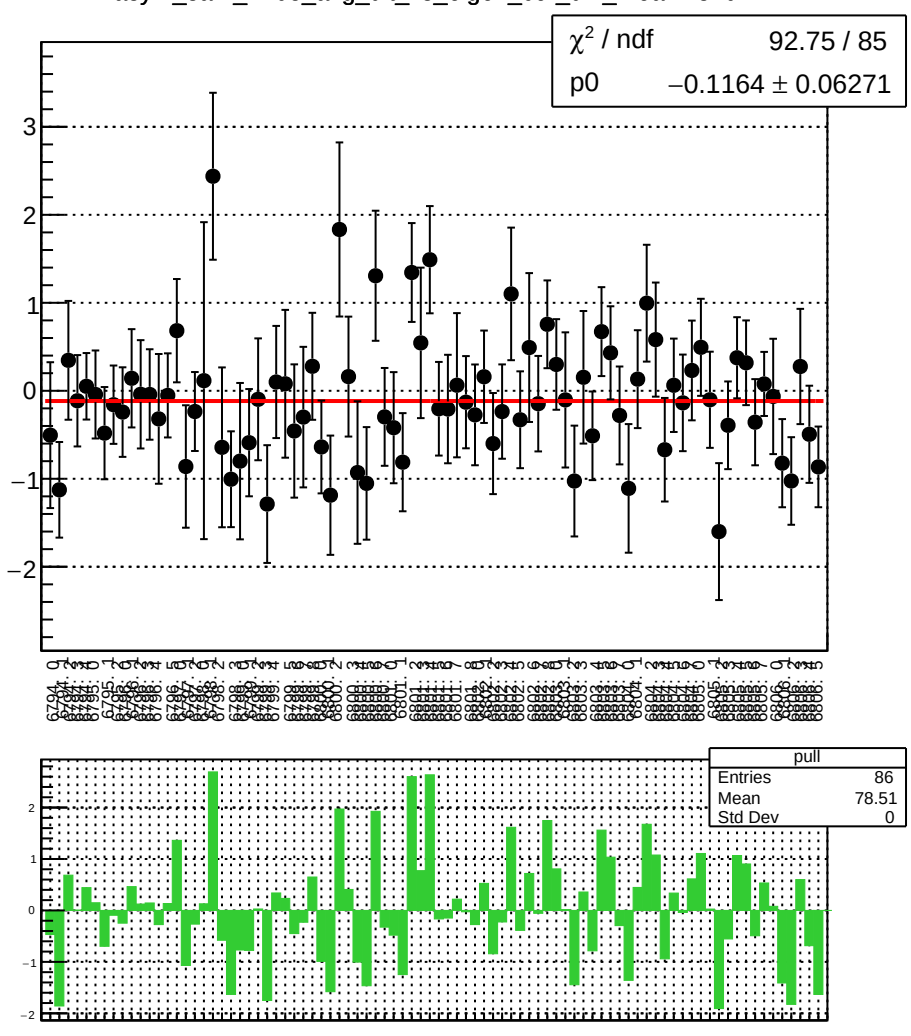

pull1D
Entries 86
Mean 0.008365
Std Dev 0.8929
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

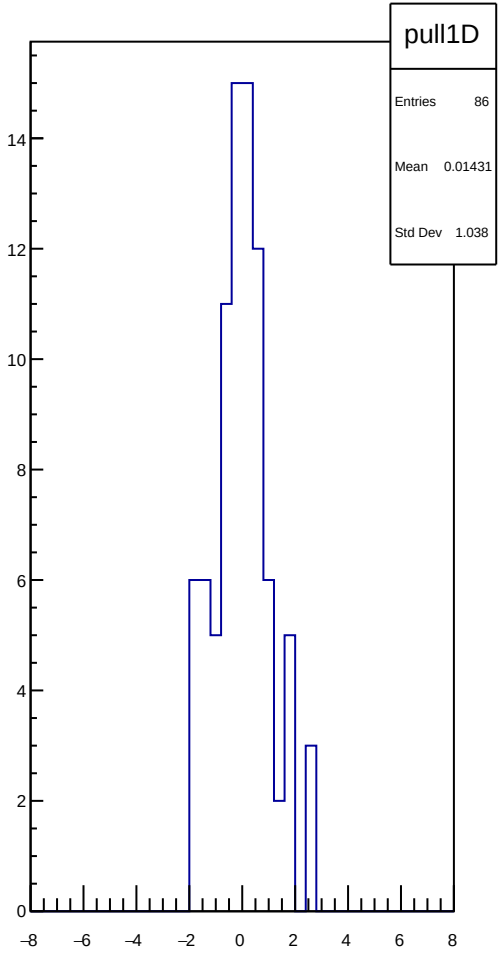

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.602e+05 / 85
p0 2.551e−11 ± 3.002e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

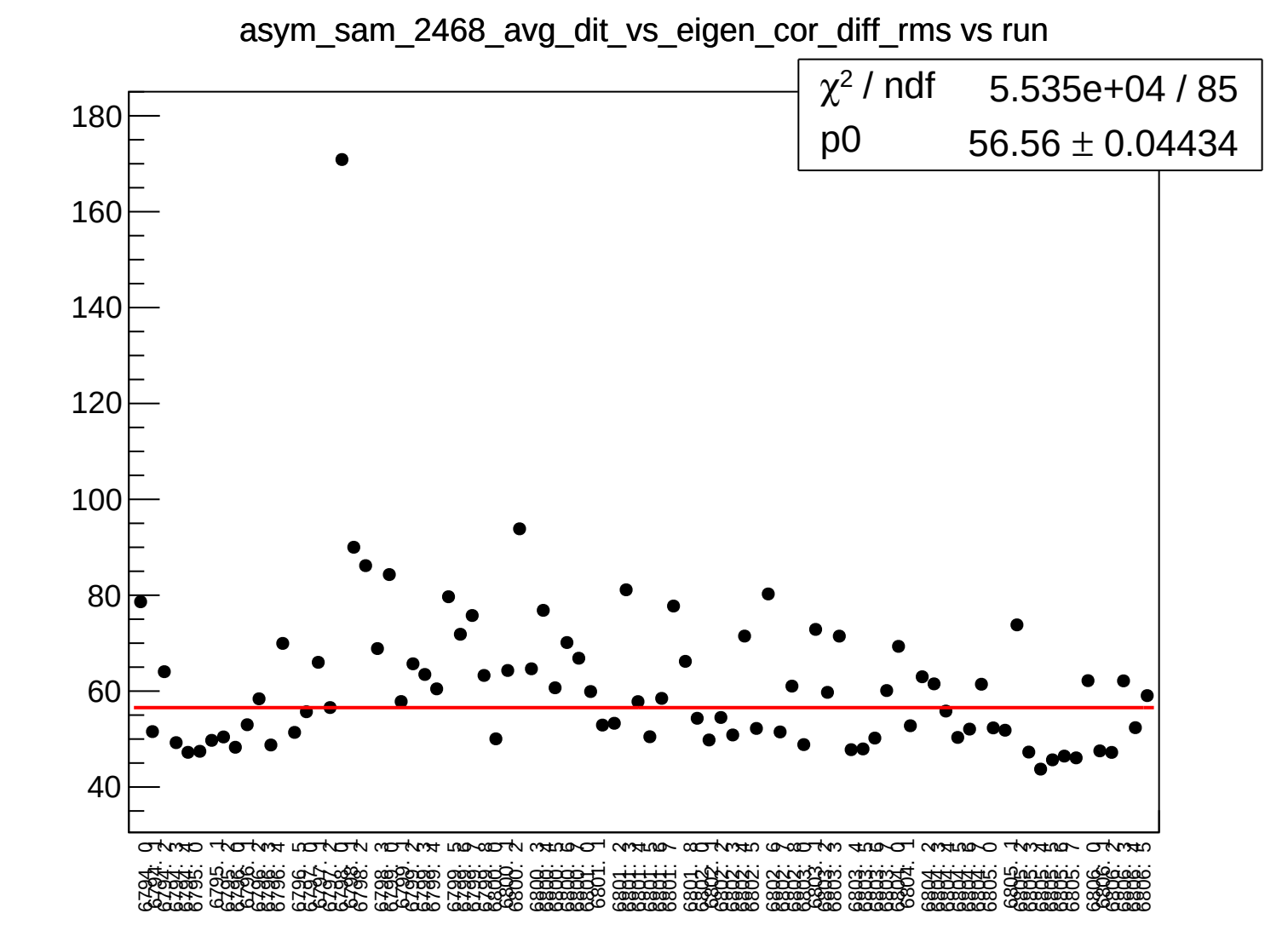

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.75 / 85
p0 −0.1164 ± 0.06271
pull
Entries 86
Mean 78.51
Std Dev 0

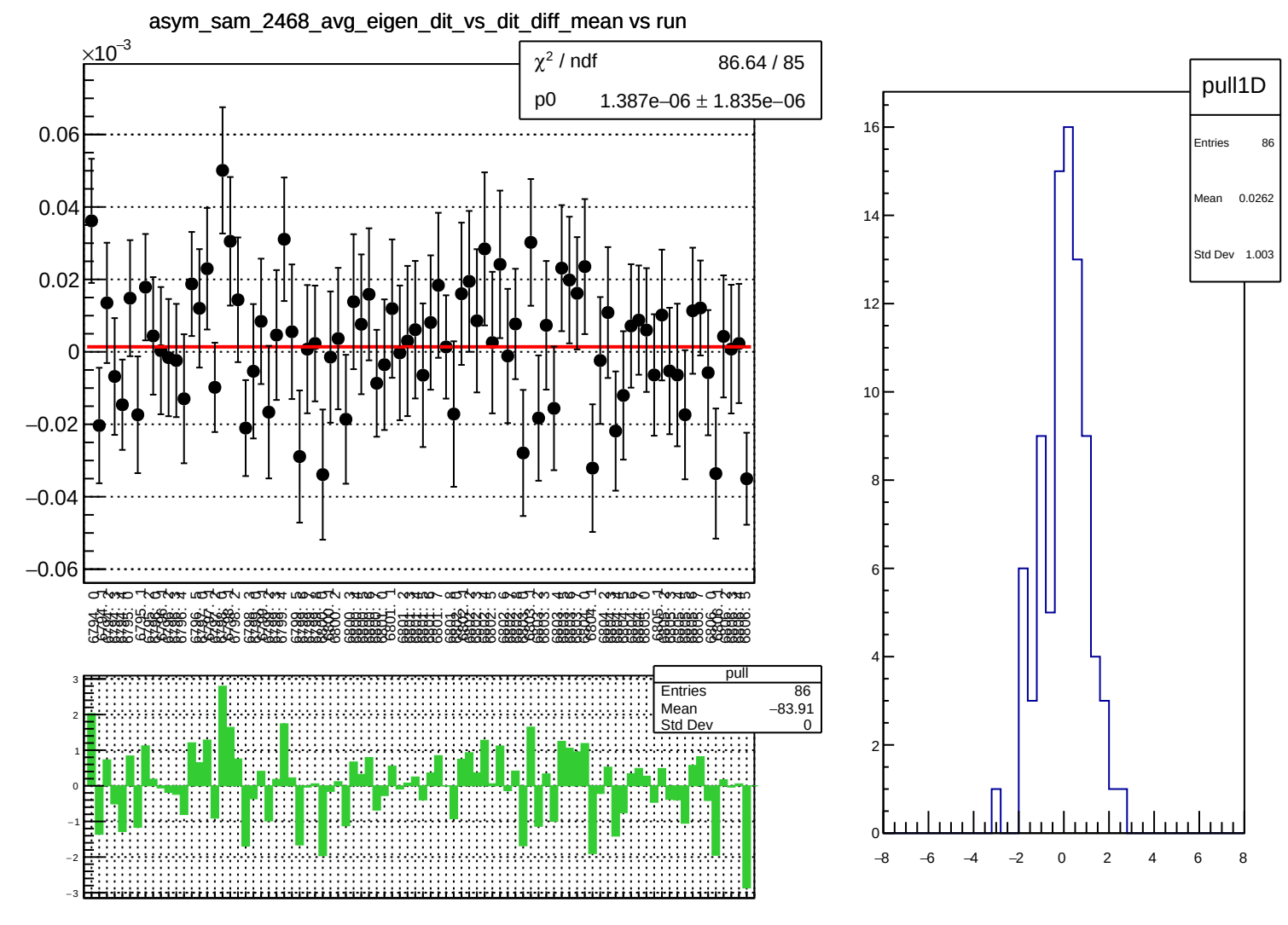

pull1D
Entries 86
Mean 0.01431
Std Dev 1.038

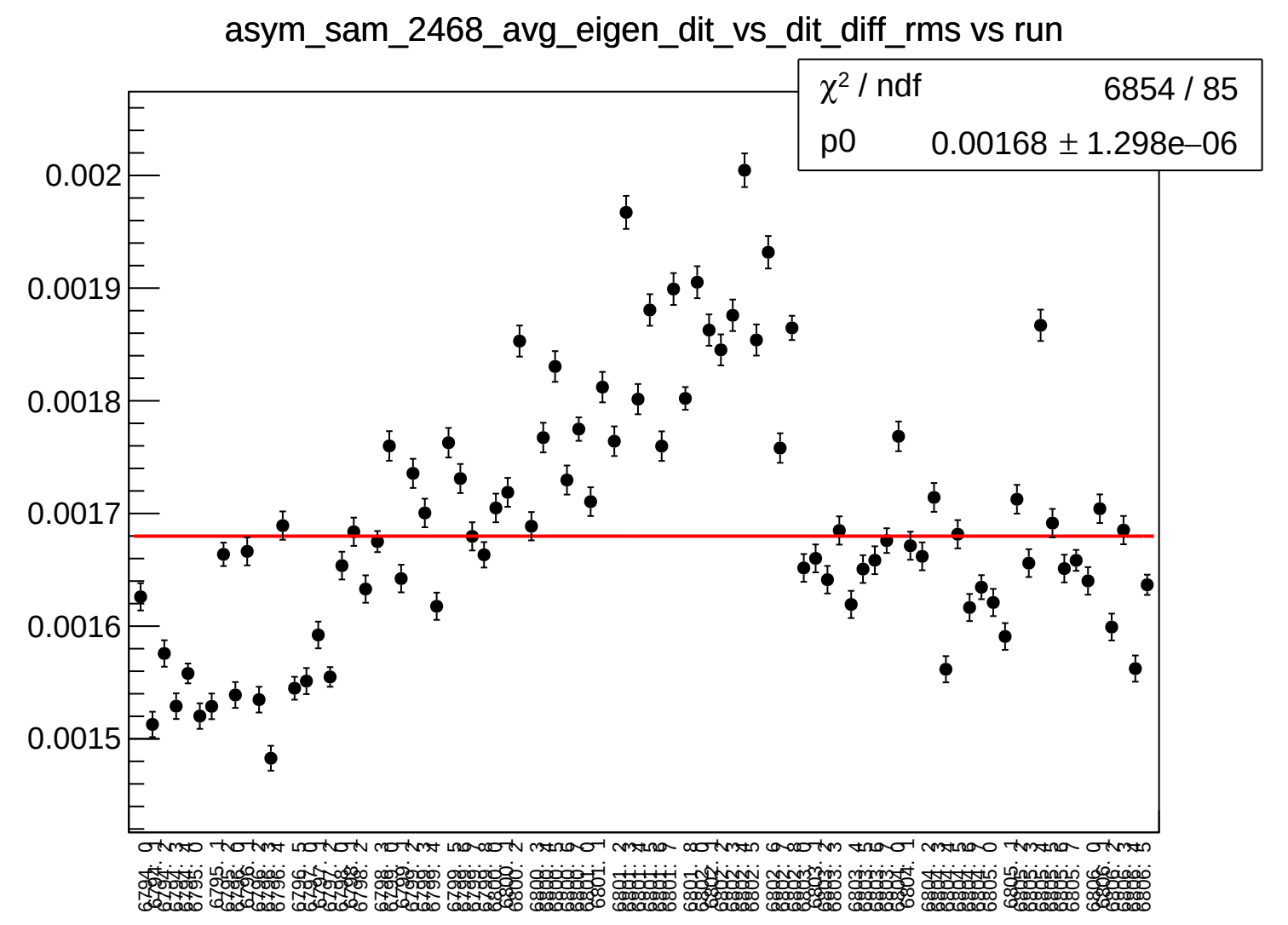

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.535e+04 / 85
p0 56.56 ± 0.04434
180
160
140
120
100
80
60
40

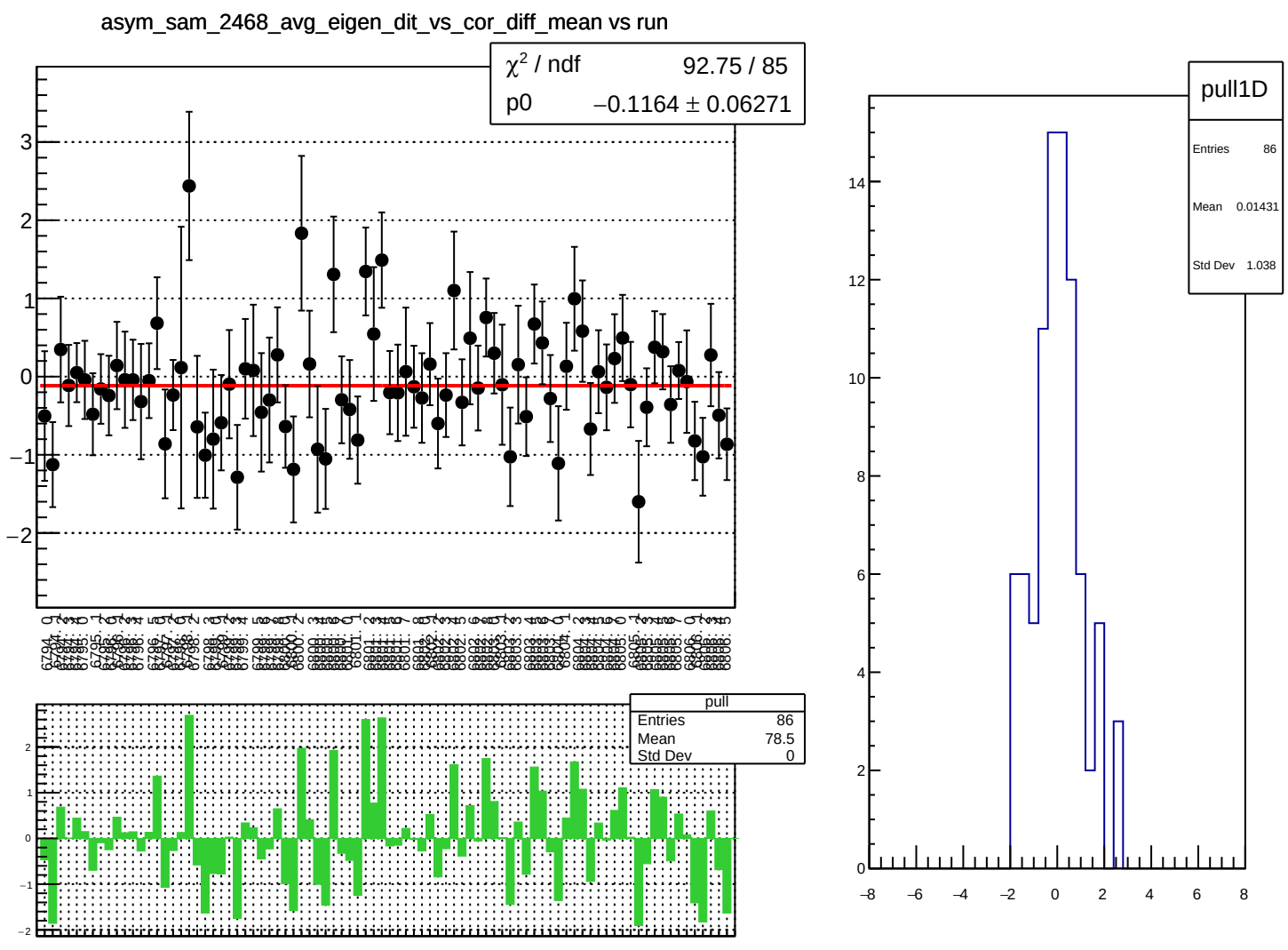

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.75 / 85
p0 −0.1164 ± 0.06271
pull
Entries 86
Mean 78.51
Std Dev 0

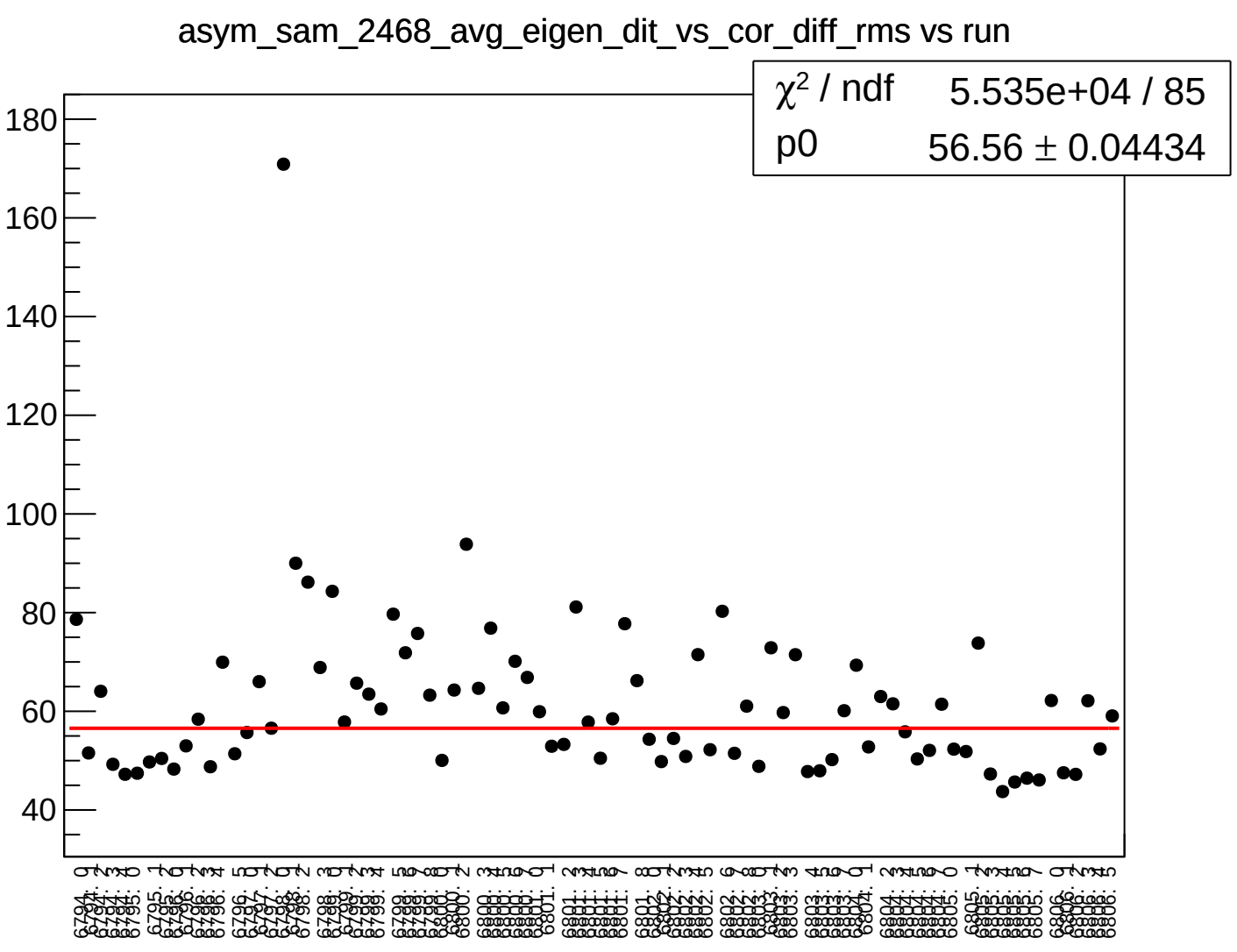

pull1D
Entries 86
Mean 0.01431
Std Dev 1.038

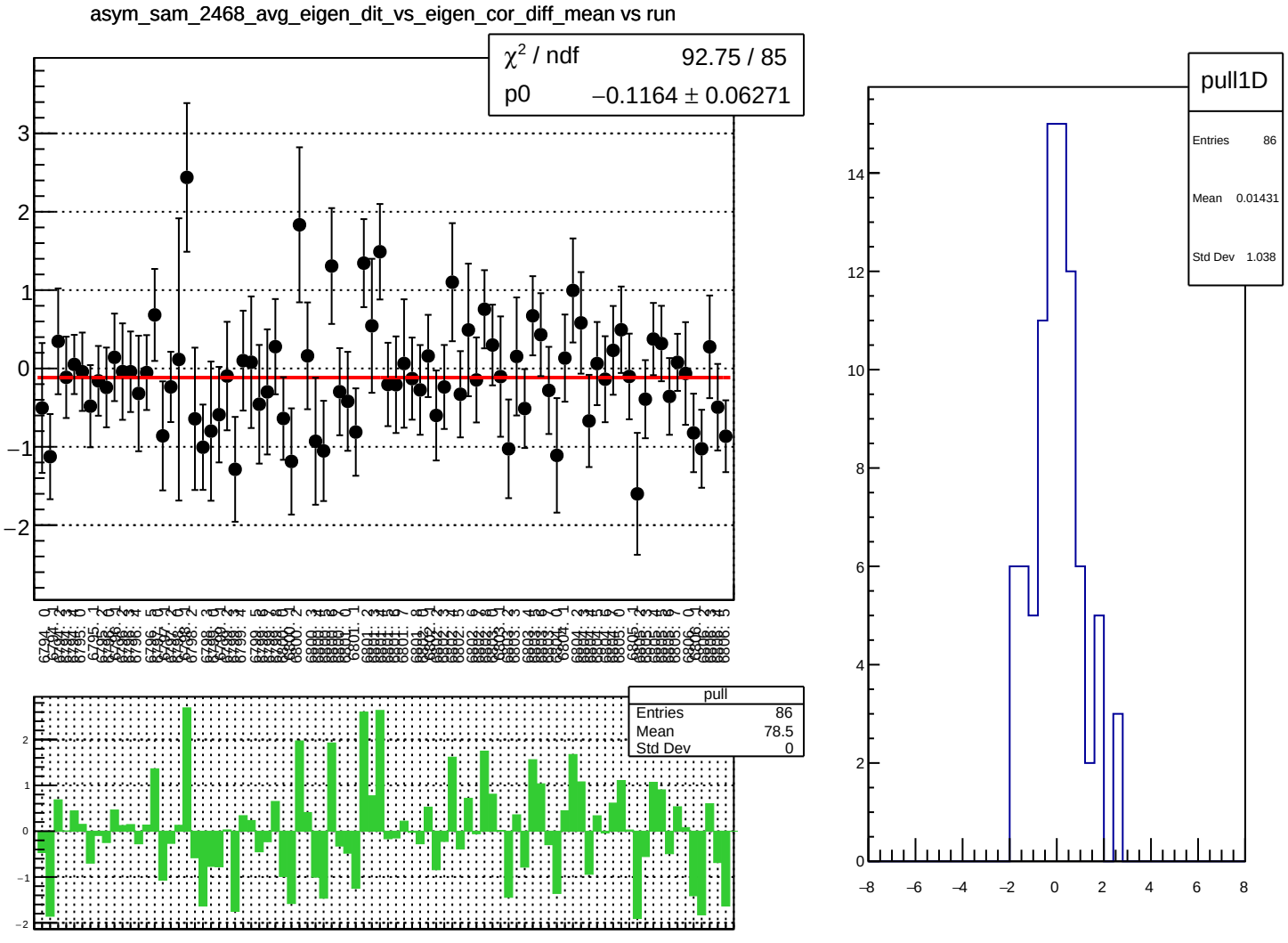

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.535e+04 / 85
p0 56.56 ± 0.04434
180
160
140
120
100
80
60
40

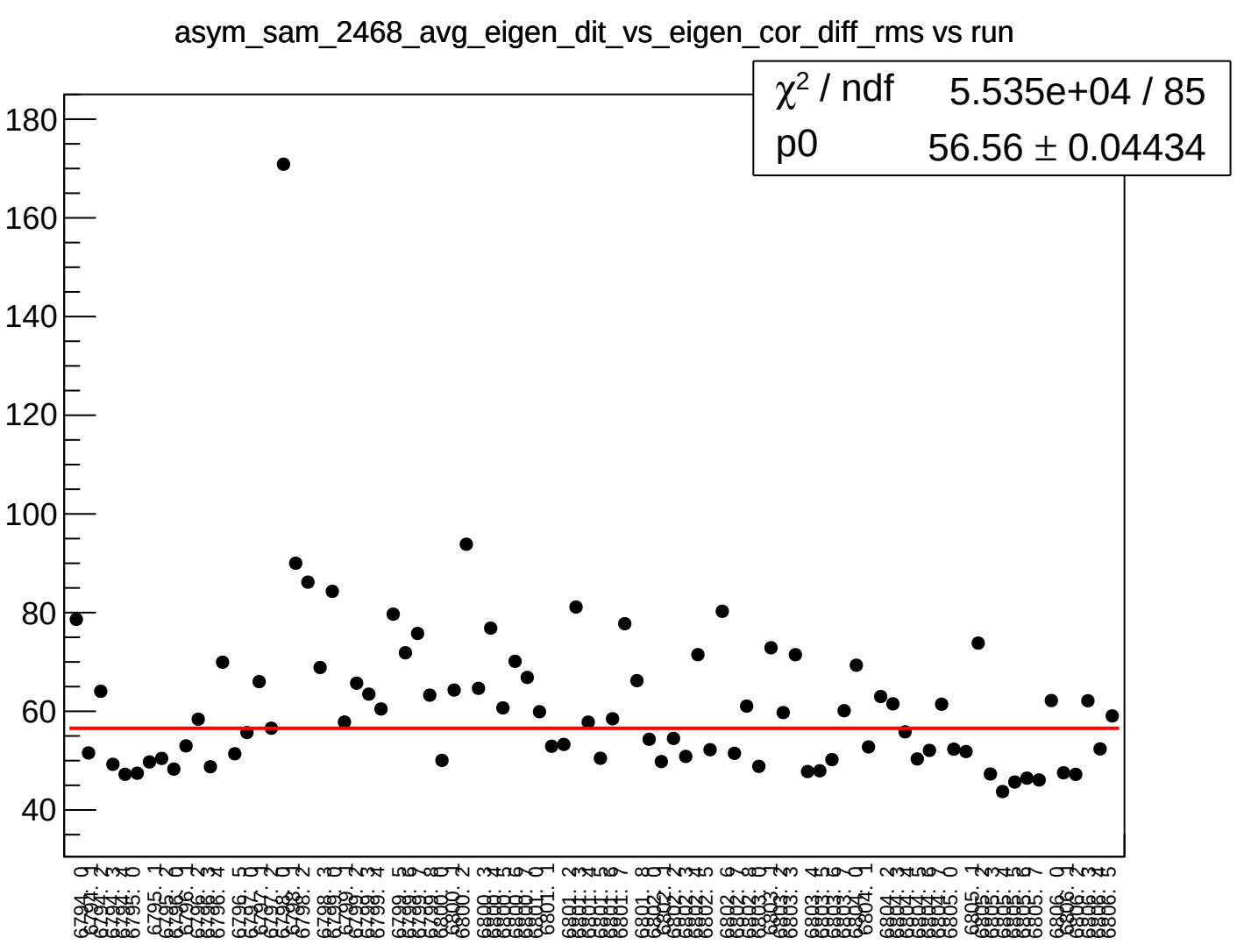

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.64 / 85
p0 1.387e−06 ± 1.835e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −83.91
Std Dev 0
pull1D
Entries 86
Mean 0.0262
Std Dev 1.003

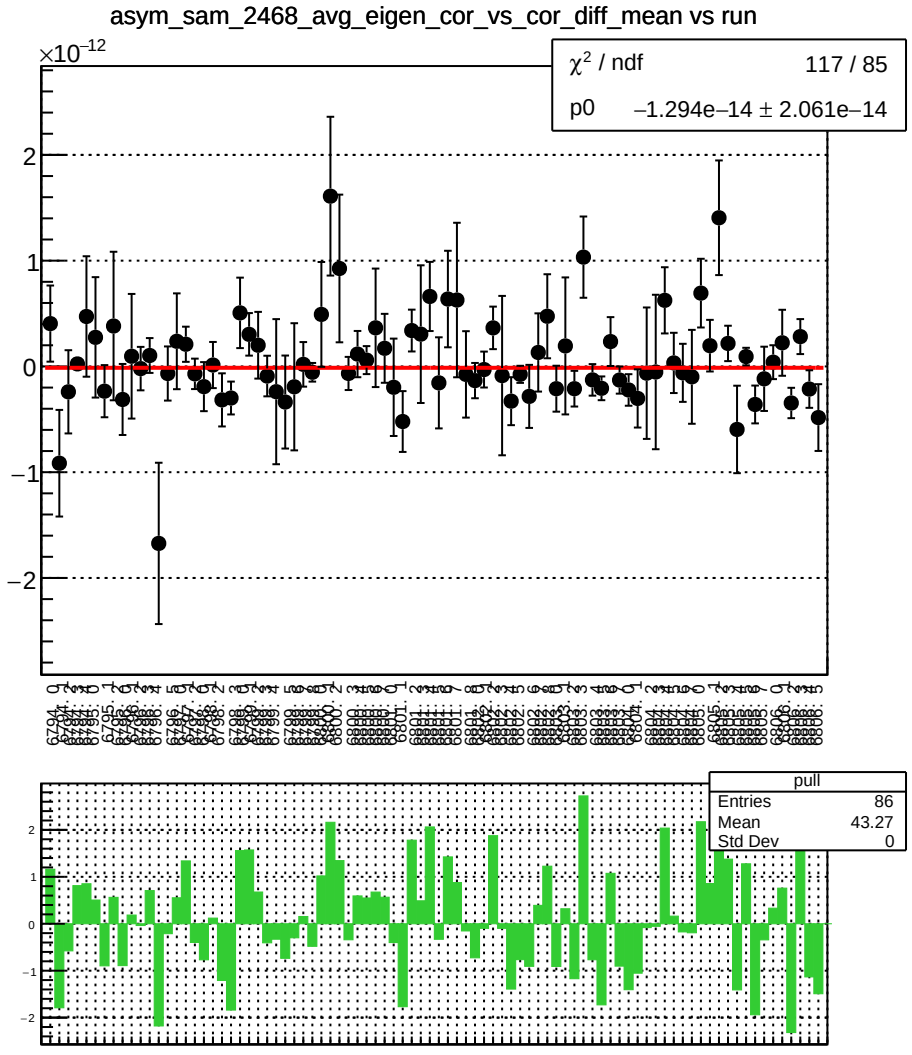

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6854 / 85
p0 0.00168 ± 1.298e–06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

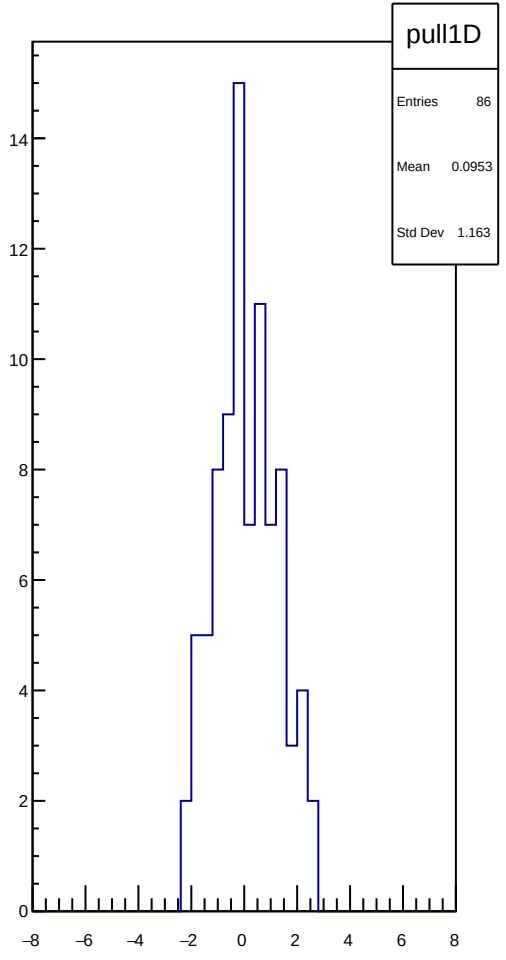

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.75 / 85
p0 −0.1164 ± 0.06271
pull
Entries 86
Mean 78.5
Std Dev 0
pull1D
Entries 86
Mean 0.01431
Std Dev 1.038

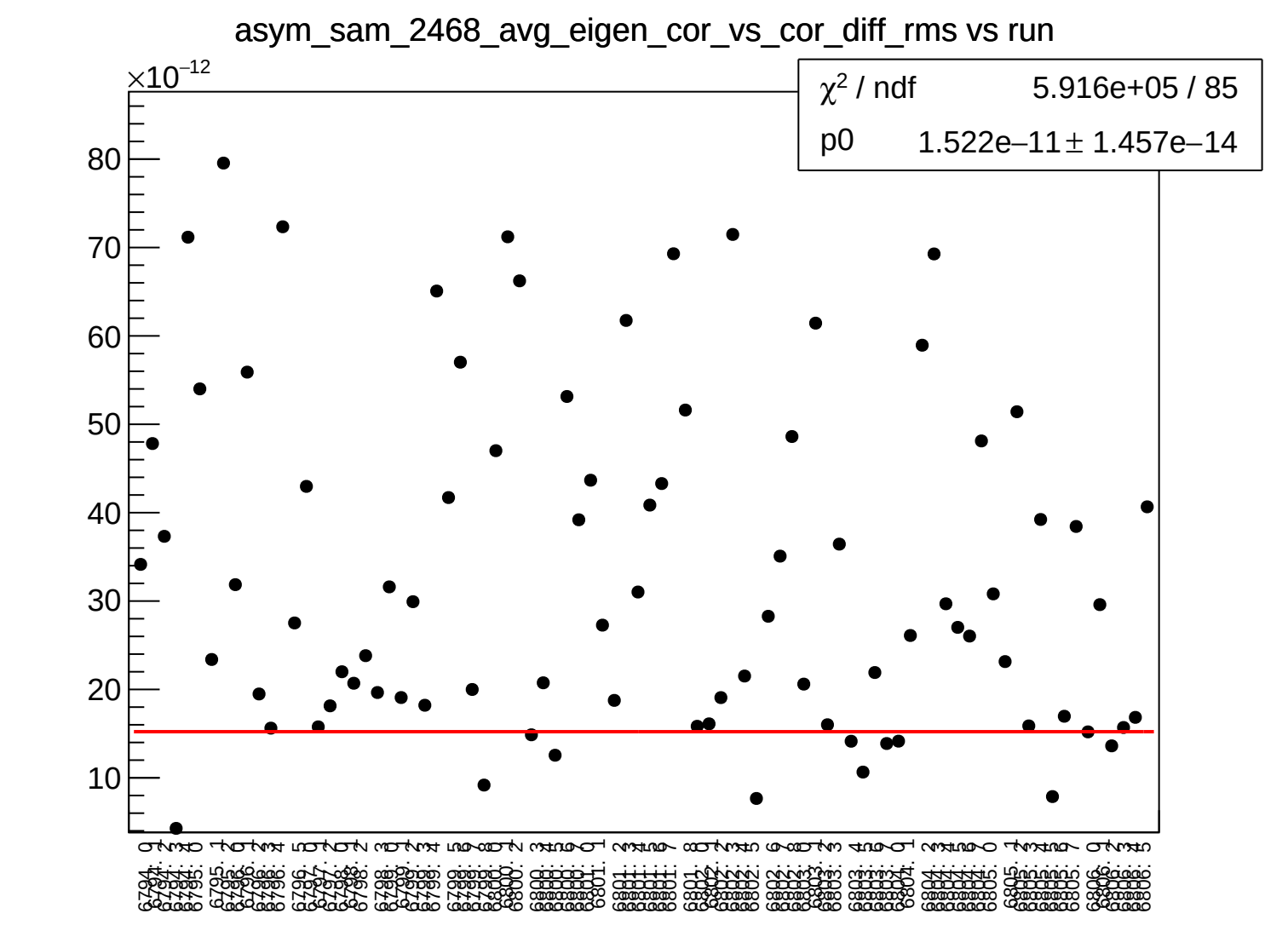

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.535e+04 / 85
p0 56.56 ± 0.04434
180
160
140
120
100
80
60
40

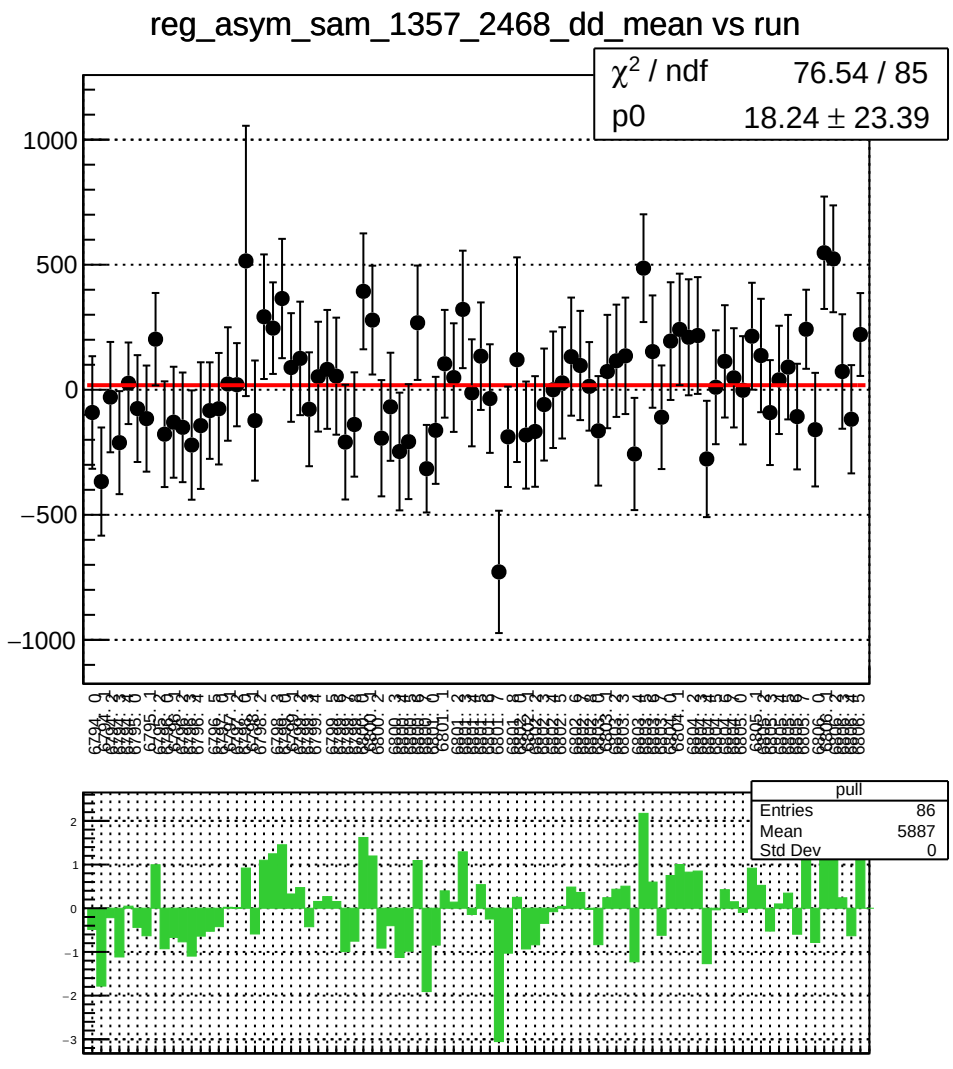

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.75 / 85
p0 −0.1164 ± 0.06271
pull
Entries 86
Mean 78.5
Std Dev 0
pull1D
Entries 86
Mean 0.01431
Std Dev 1.038

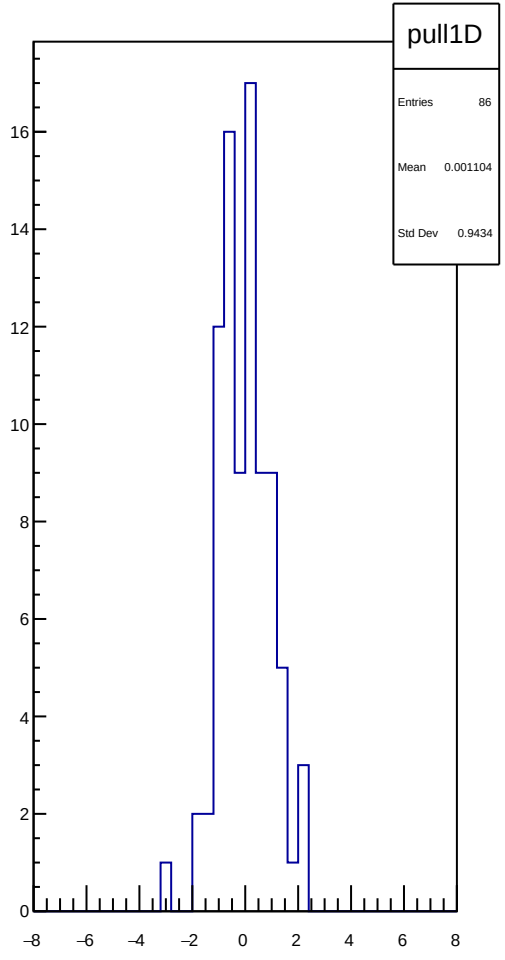

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.535e+04 / 85
p0 56.56 ± 0.04434
180
160
140
120
100
80
60
40

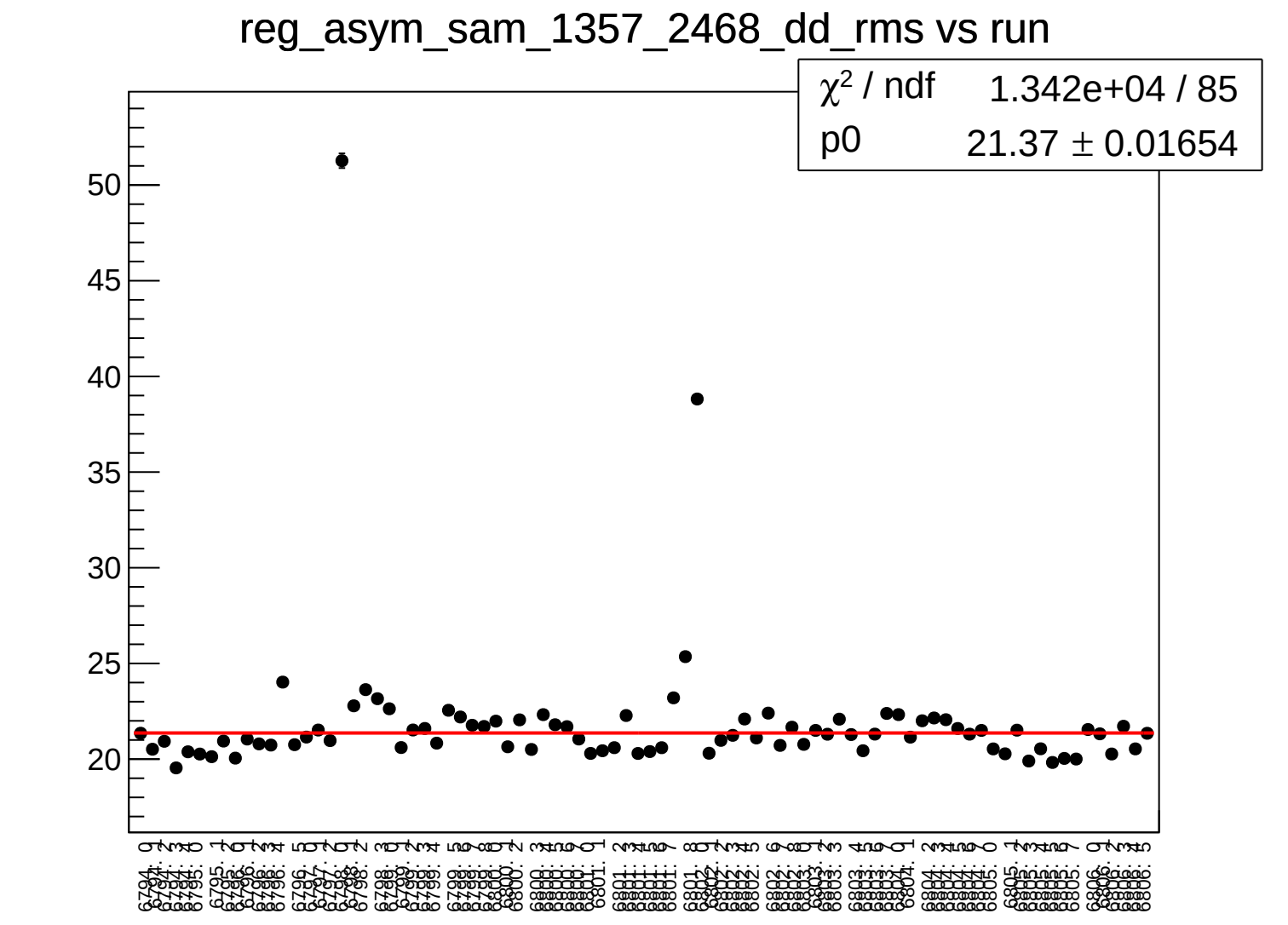

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 117 / 85
p0 −1.294e−14 ± 2.061e−14
pull
Entries 86
Mean 43.27
Std Dev 0

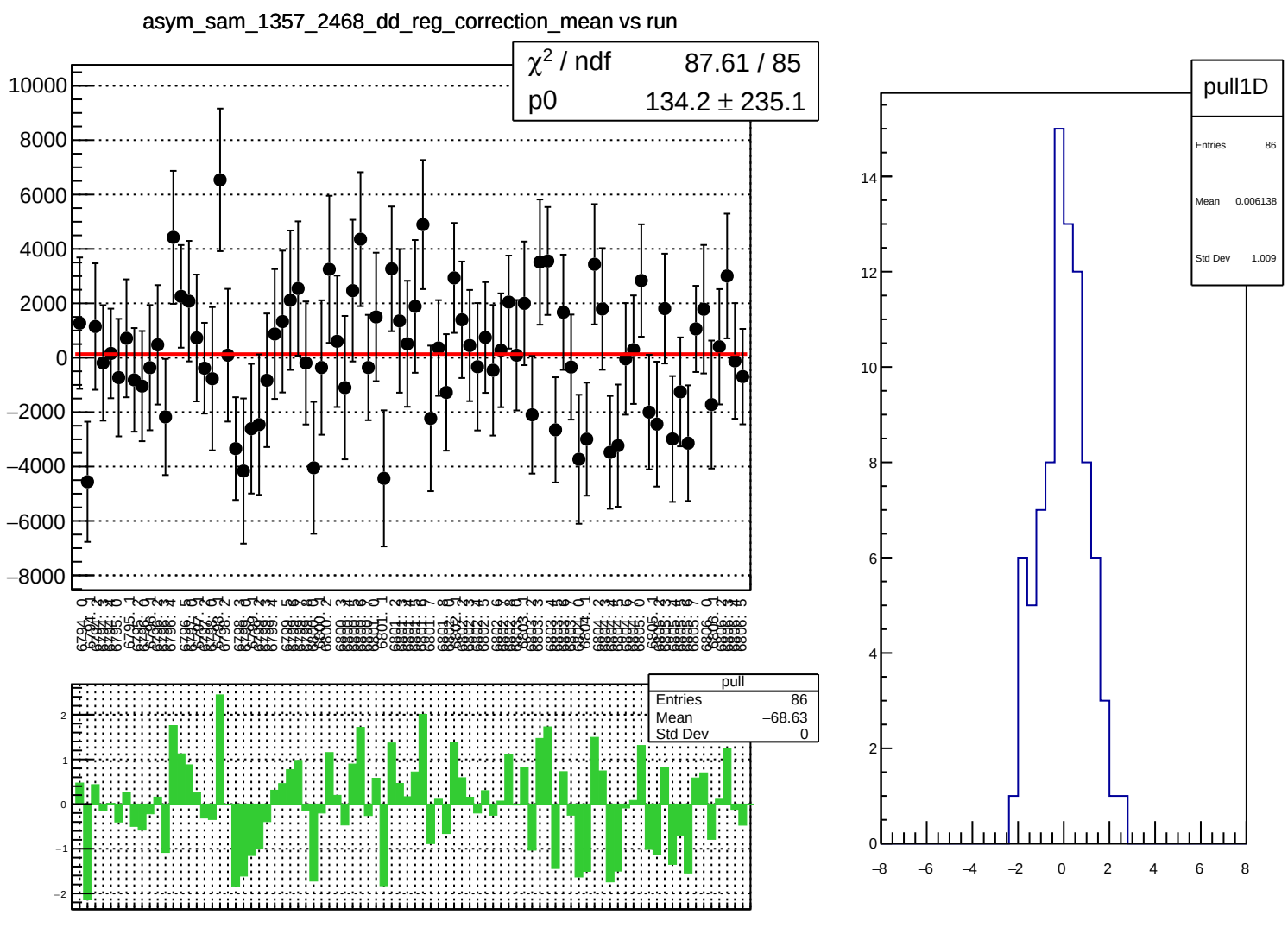

pull1D
Entries 86
Mean 0.0953
Std Dev 1.163

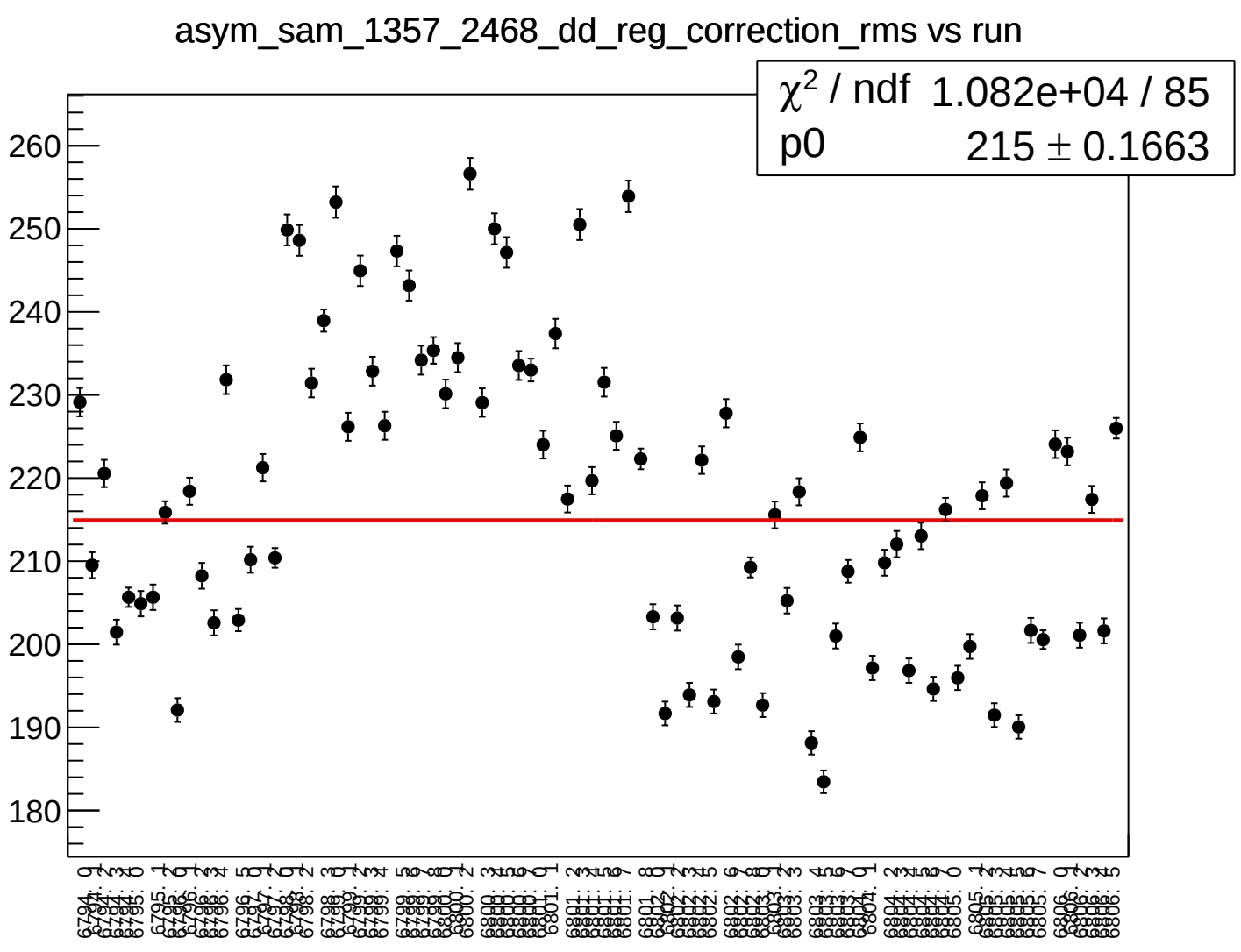

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.916e+05 / 85
p0 1.522e−11 ± 1.457e−14
80
70
60
50
40
30
20
10

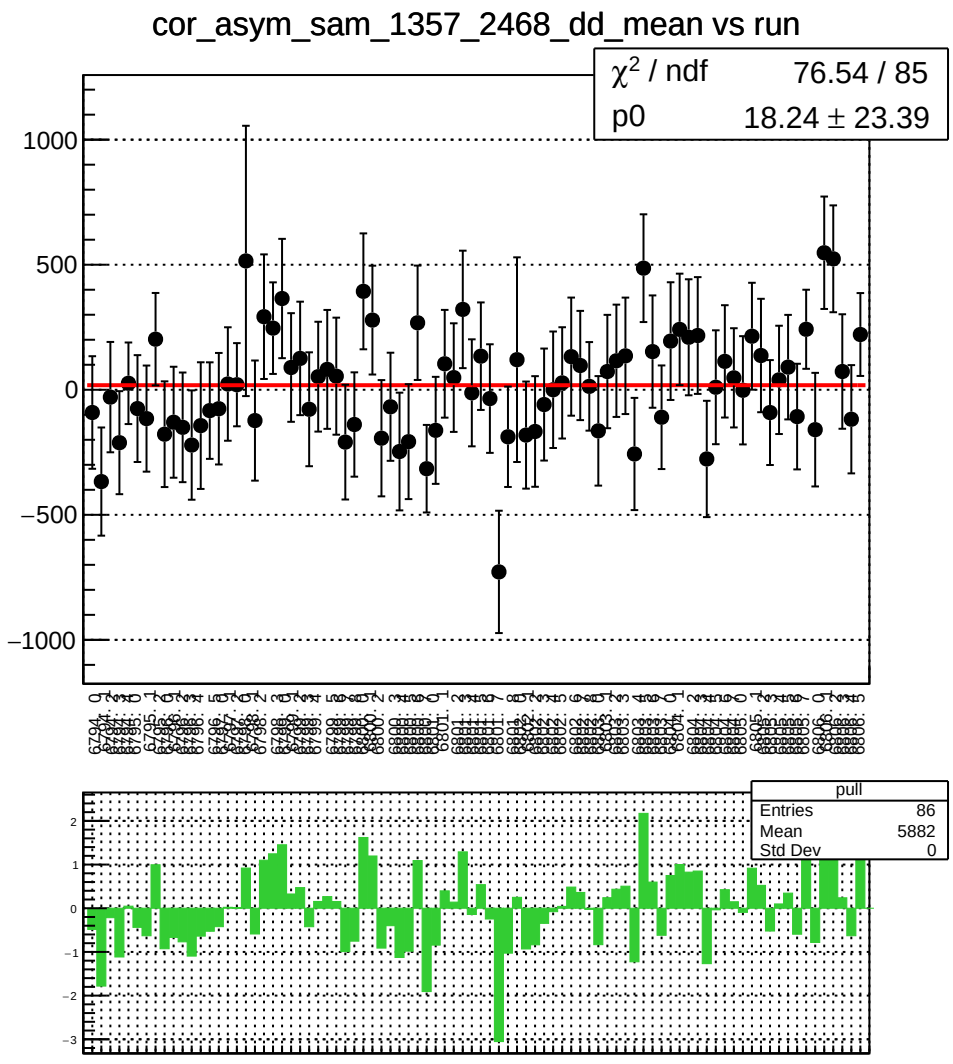

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.54 / 85
p0 18.24 ± 23.39
1000
500
0
−500
−1000
pull
Entries 86
Mean 5887
Std Dev 0
2
1
0
−1
−2
−3

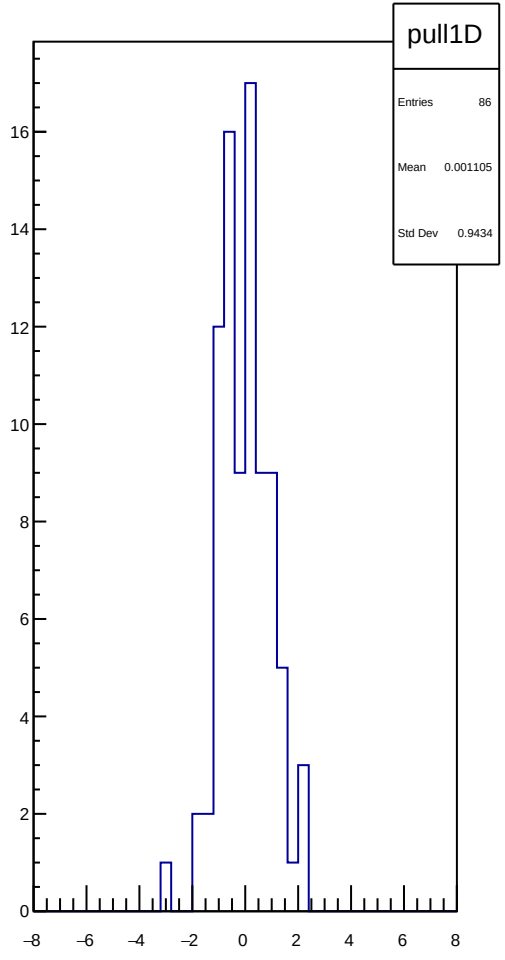

pull1D
Entries 86
Mean 0.001104
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

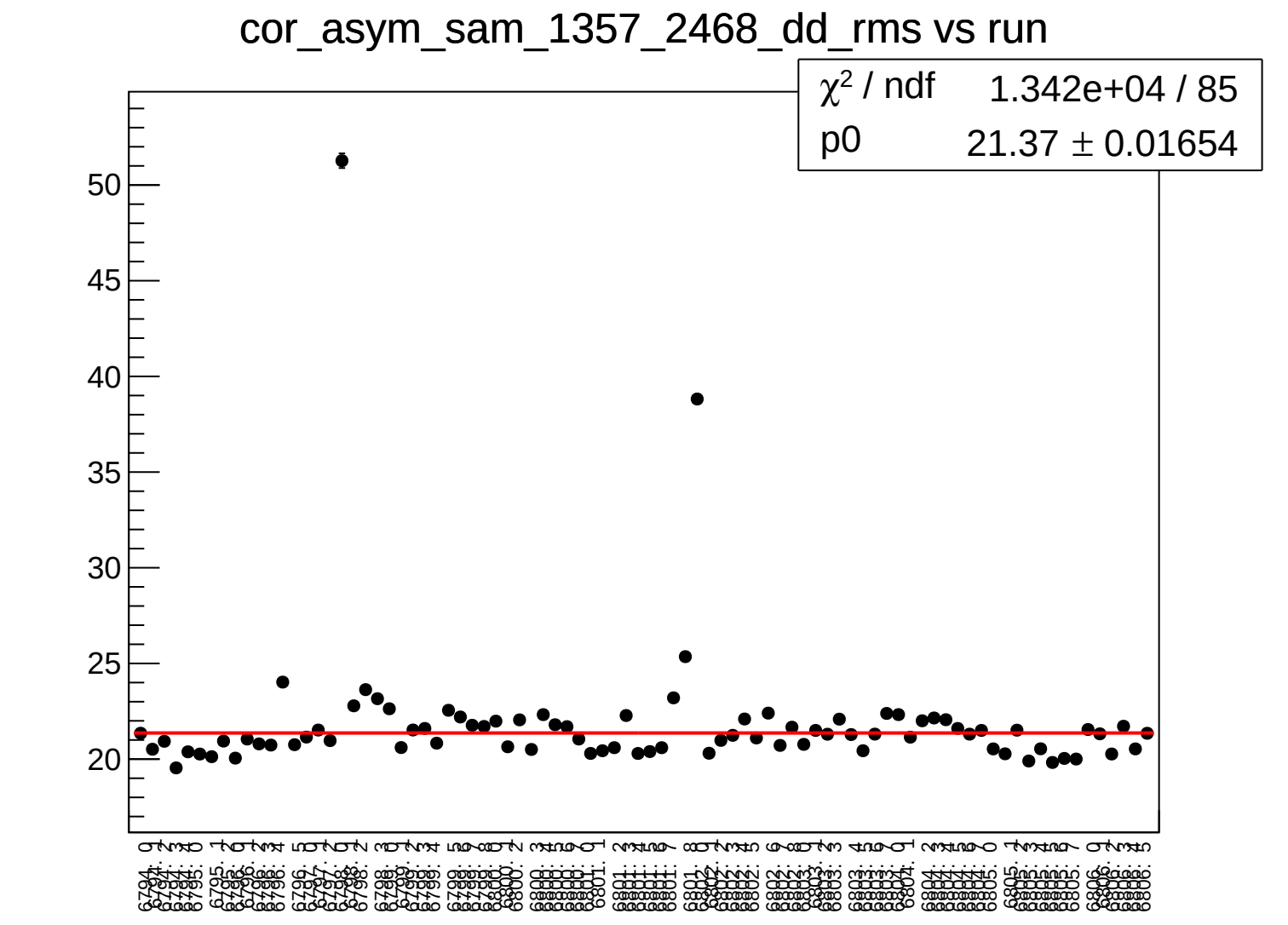

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.342e+04 / 85
p0 21.37 ± 0.01654
50
45
40
35
30
25
20

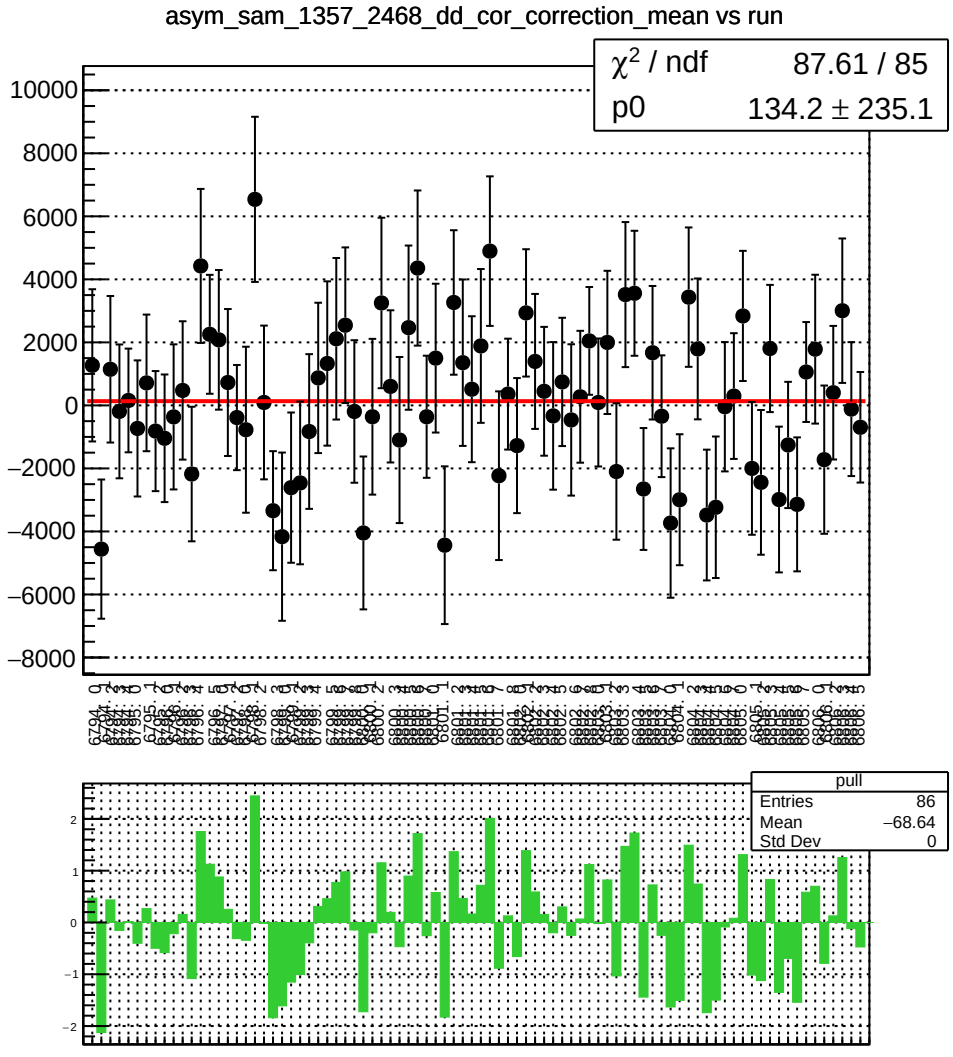

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 87.61 / 85
p0 134.2 ± 235.1
pull
Entries 86
Mean −68.63
Std Dev 0
pull1D
Entries 86
Mean 0.006138
Std Dev 1.009

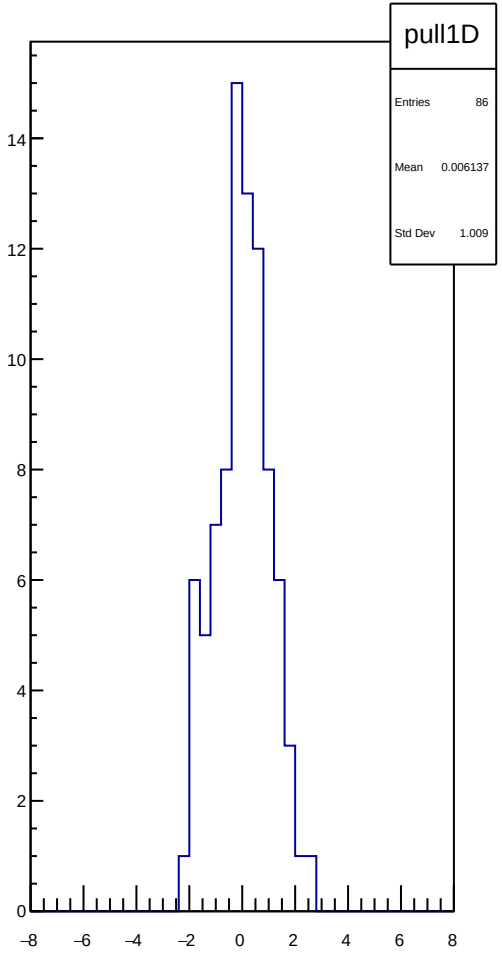

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.082e+04 / 85
p0 215 ± 0.1663
260
250
240
230
220
210
200
190
180

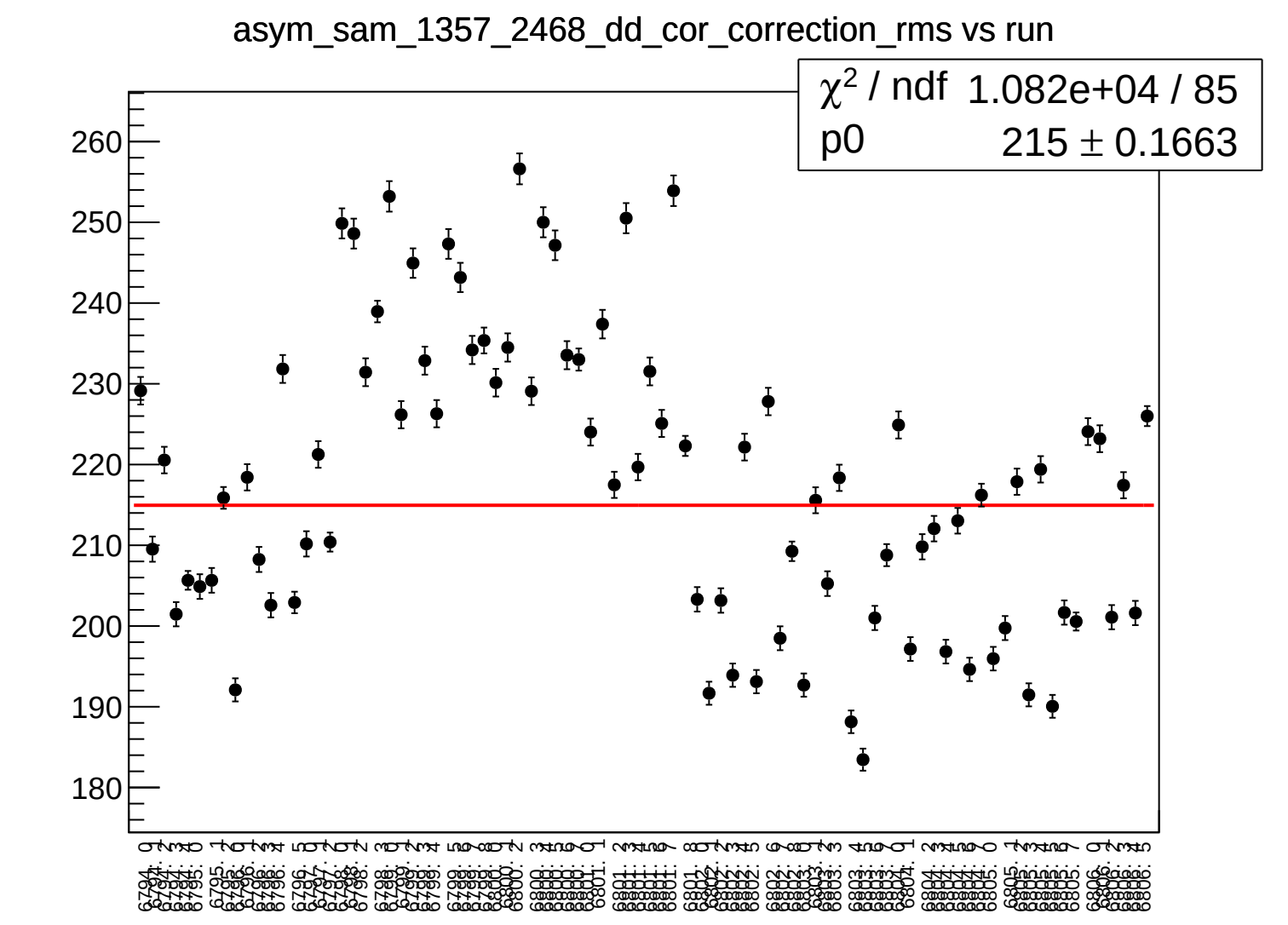

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.54 / 85
p0 18.24 ± 23.39
1000
500
0
−500
−1000
pull
Entries 86
Mean 5882
Std Dev 0
2
1
0
−1
−2
−3

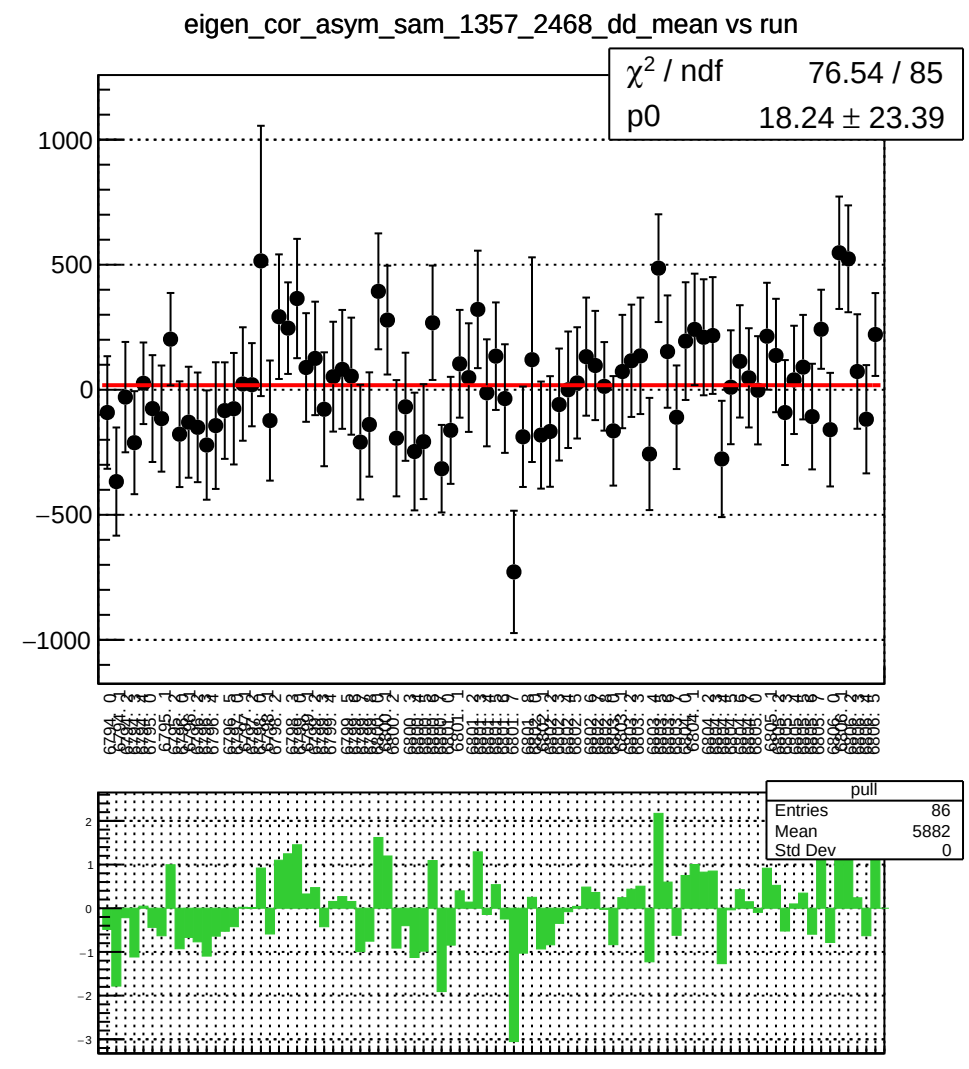

pull1D
Entries 86
Mean 0.001105
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

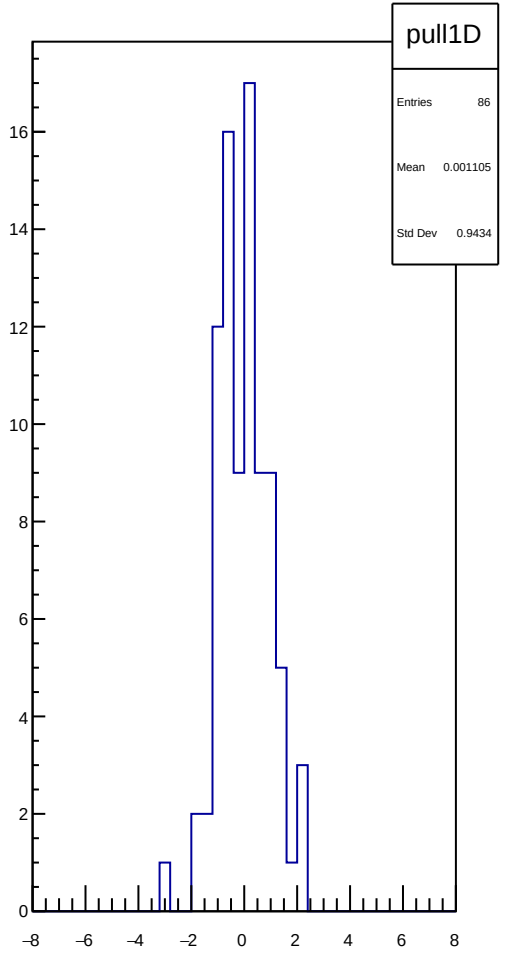

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.342e+04 / 85
p0 21.37 ± 0.01654
50
45
40
35
30
25
20

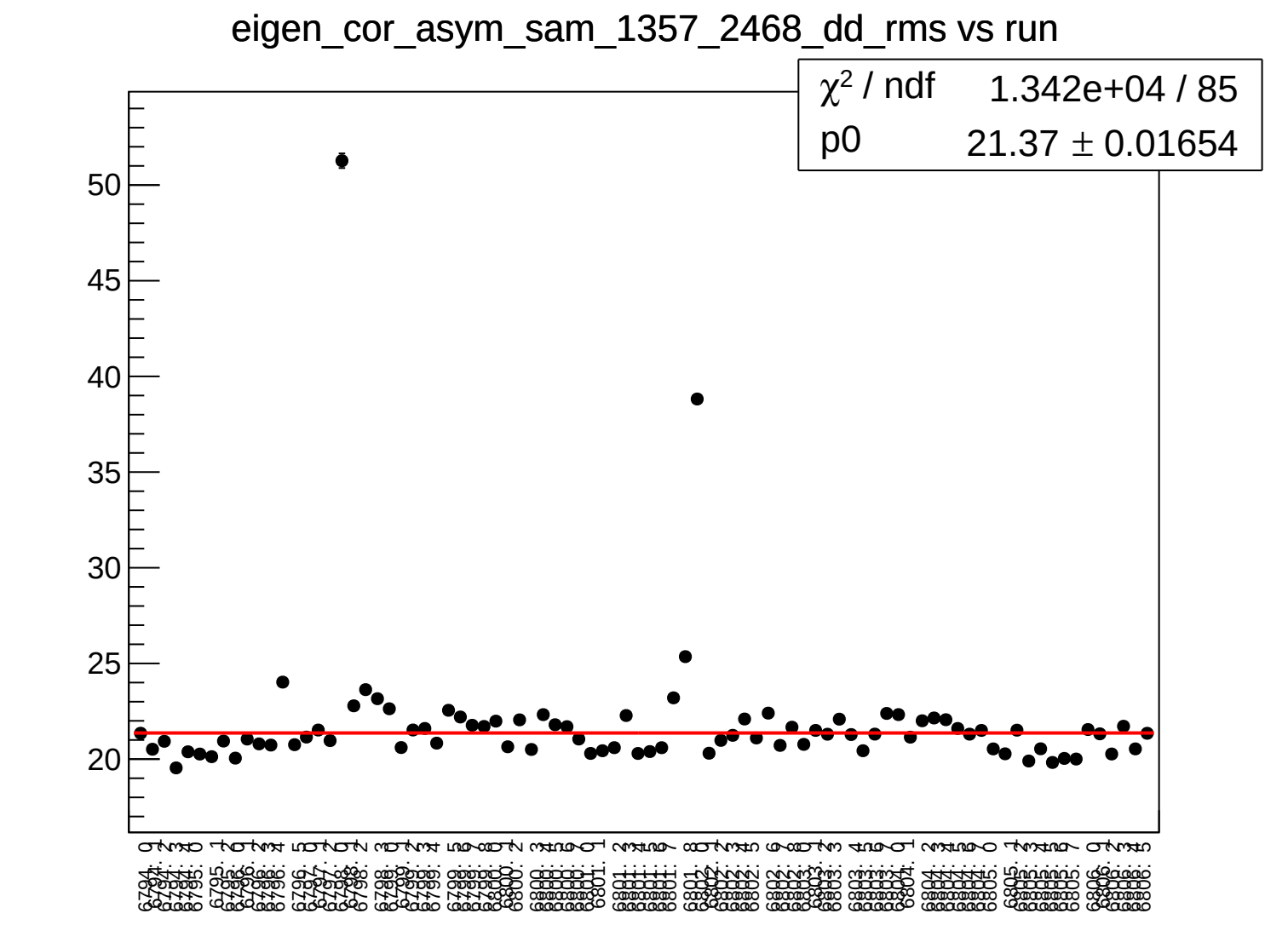

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 87.61 / 85
p0 134.2 ± 235.1
pull
Entries 86
Mean −68.64
Std Dev 0

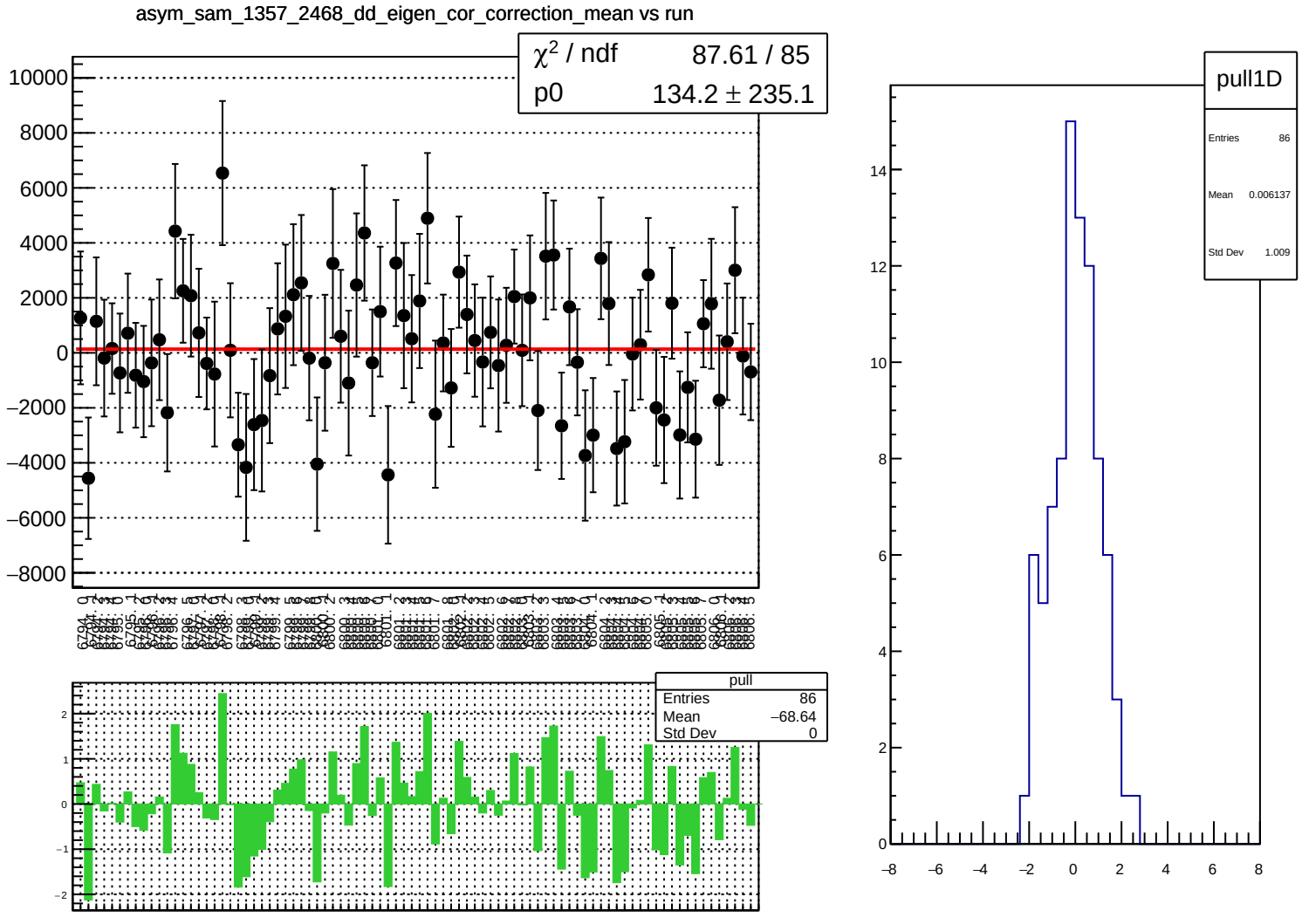

pull1D
Entries 86
Mean 0.006137
Std Dev 1.009

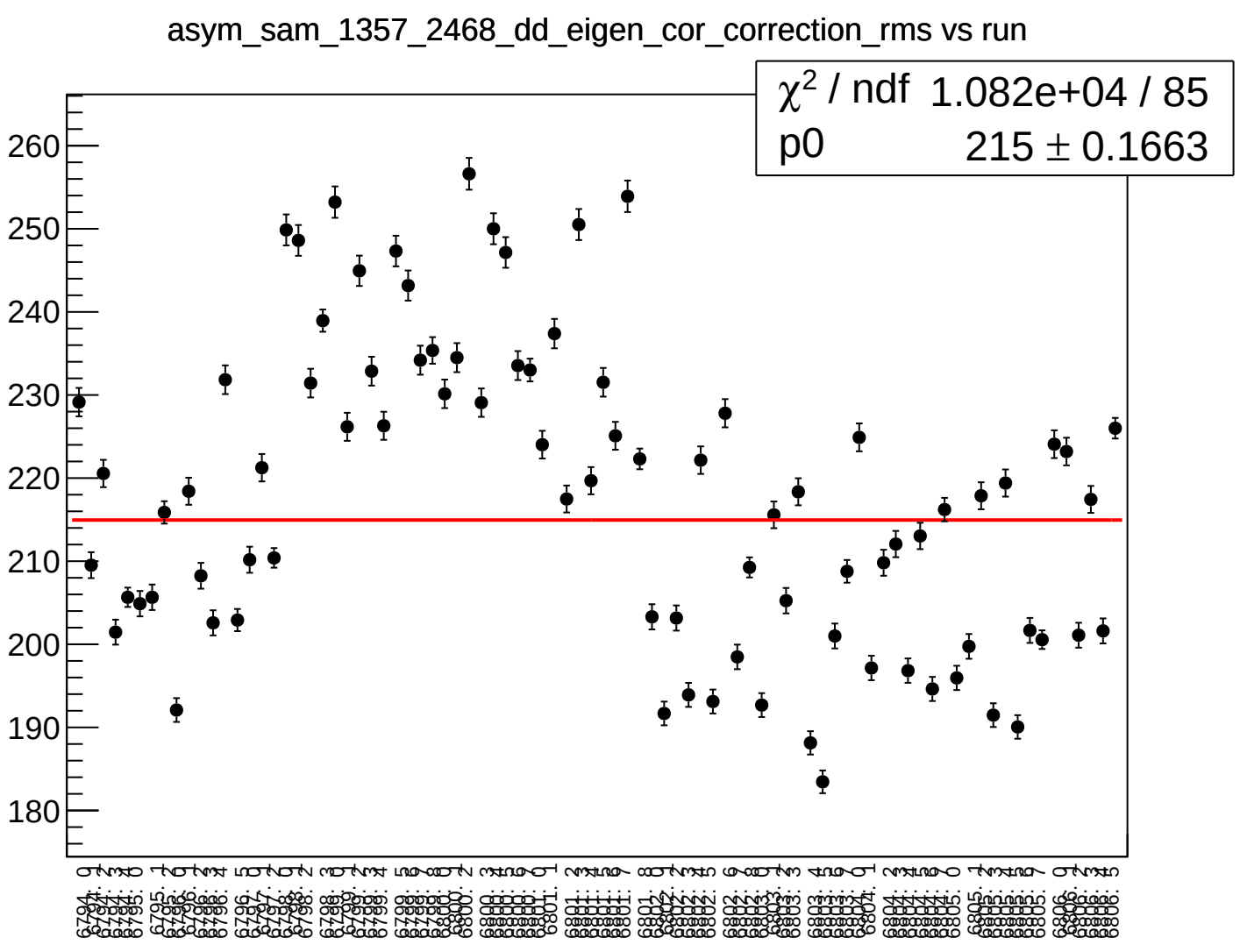

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 85
p0 215 ± 0.1663
260
250
240
230
220
210
200
190
180

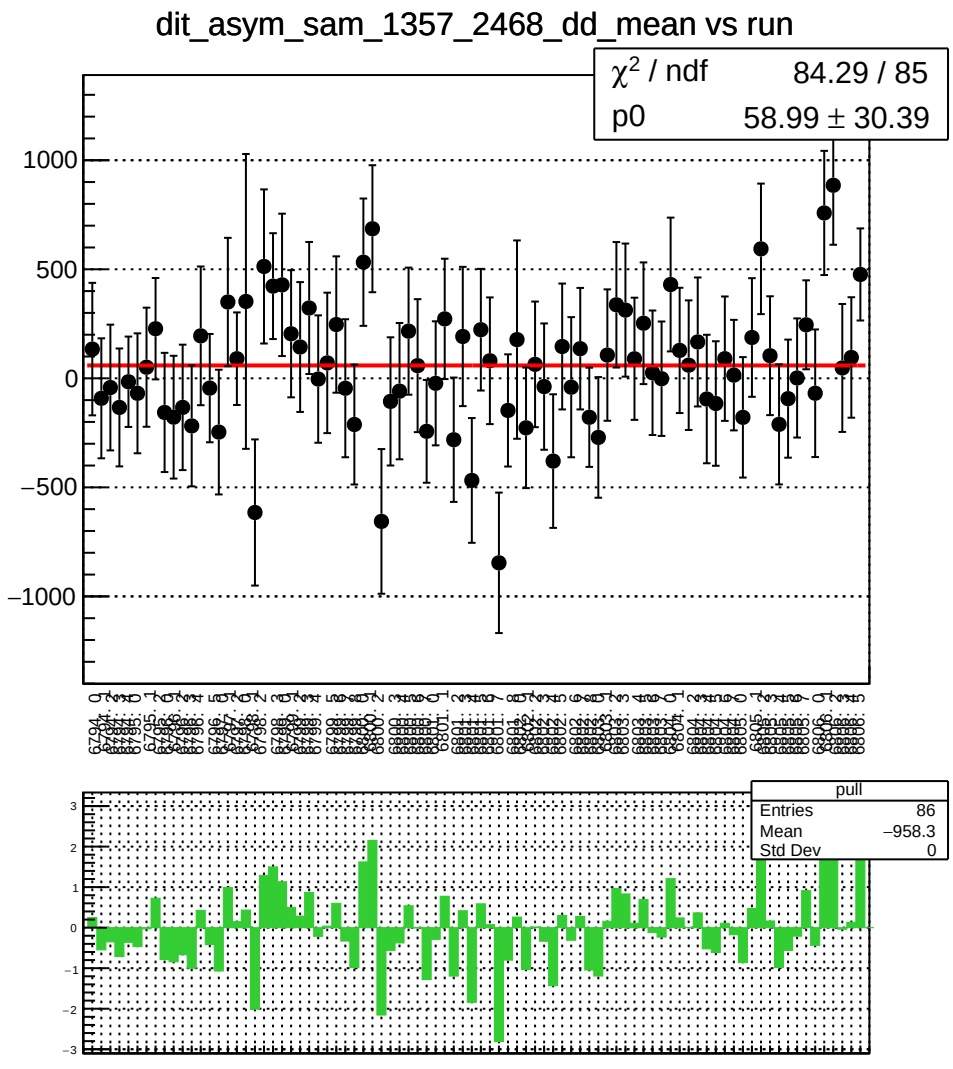

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 76.54 / 85
p0 18.24 ± 23.39
1000
500
0
−500
−1000
pull
Entries 86
Mean 5882
Std Dev 0
2
1
0
−1
−2
−3

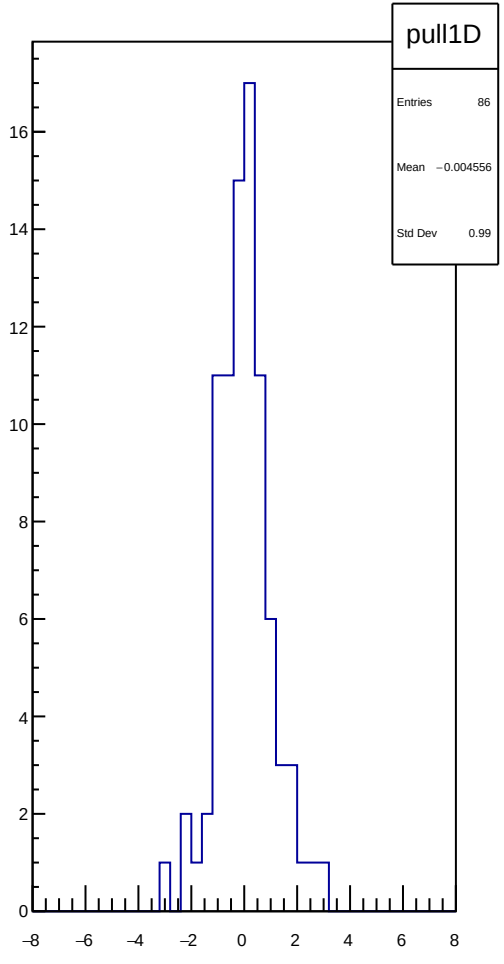

pull1D
Entries 86
Mean 0.001105
Std Dev 0.9434
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

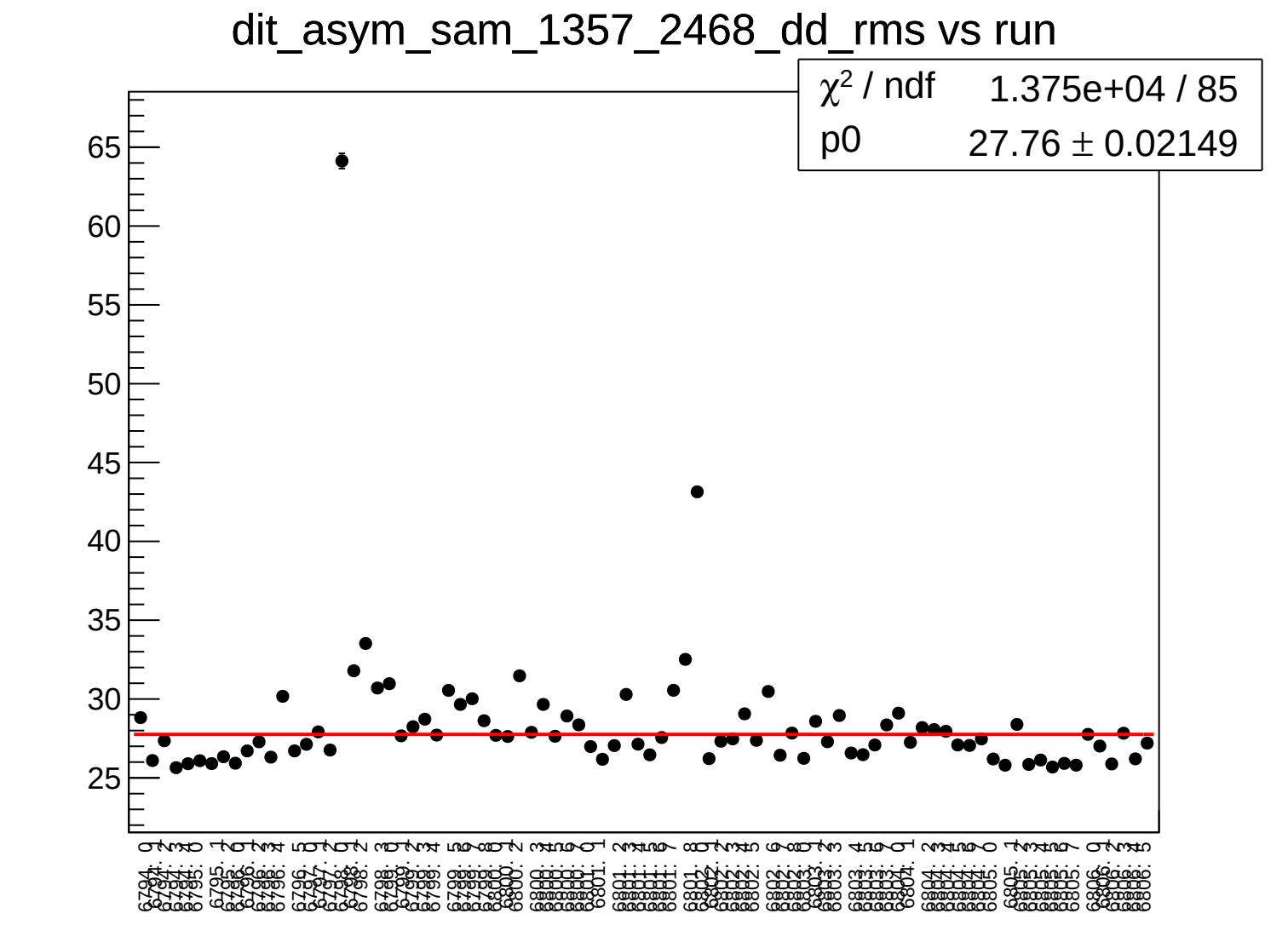

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.342e+04 / 85
p0 21.37 ± 0.01654
50
45
40
35
30
25
20

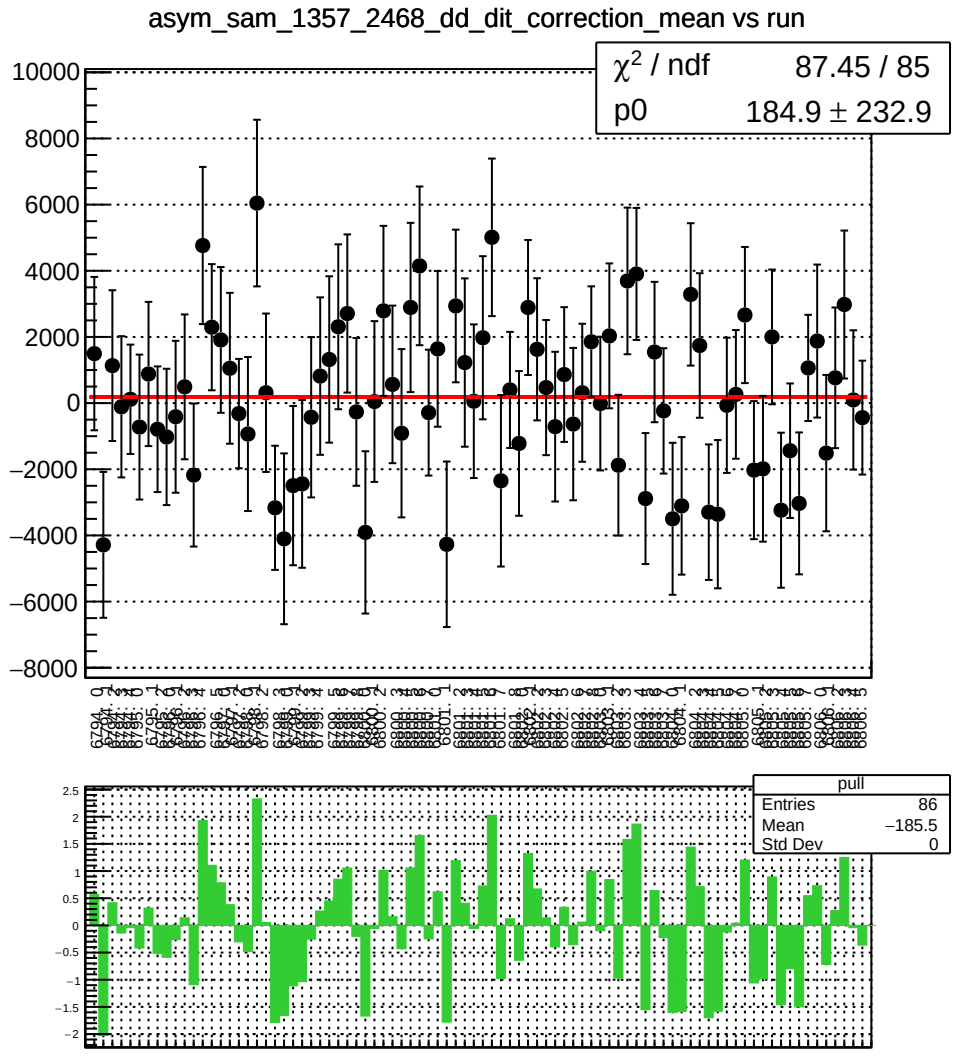

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 87.61 / 85
p0 134.2 ± 235.1
pull
Entries 86
Mean −68.64
Std Dev 0
pull1D
Entries 86
Mean 0.006137
Std Dev 1.009

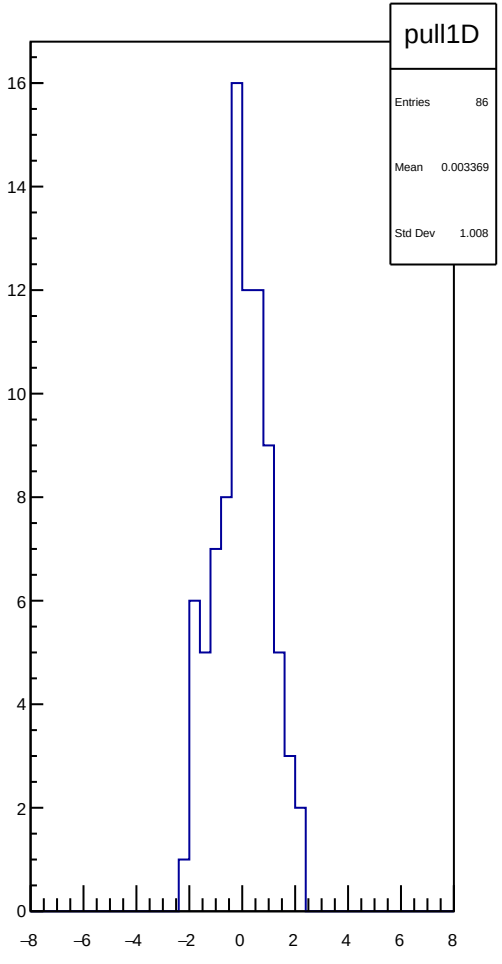

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 85
p0 215 ± 0.1663
260
250
240
230
220
210
200
190
180

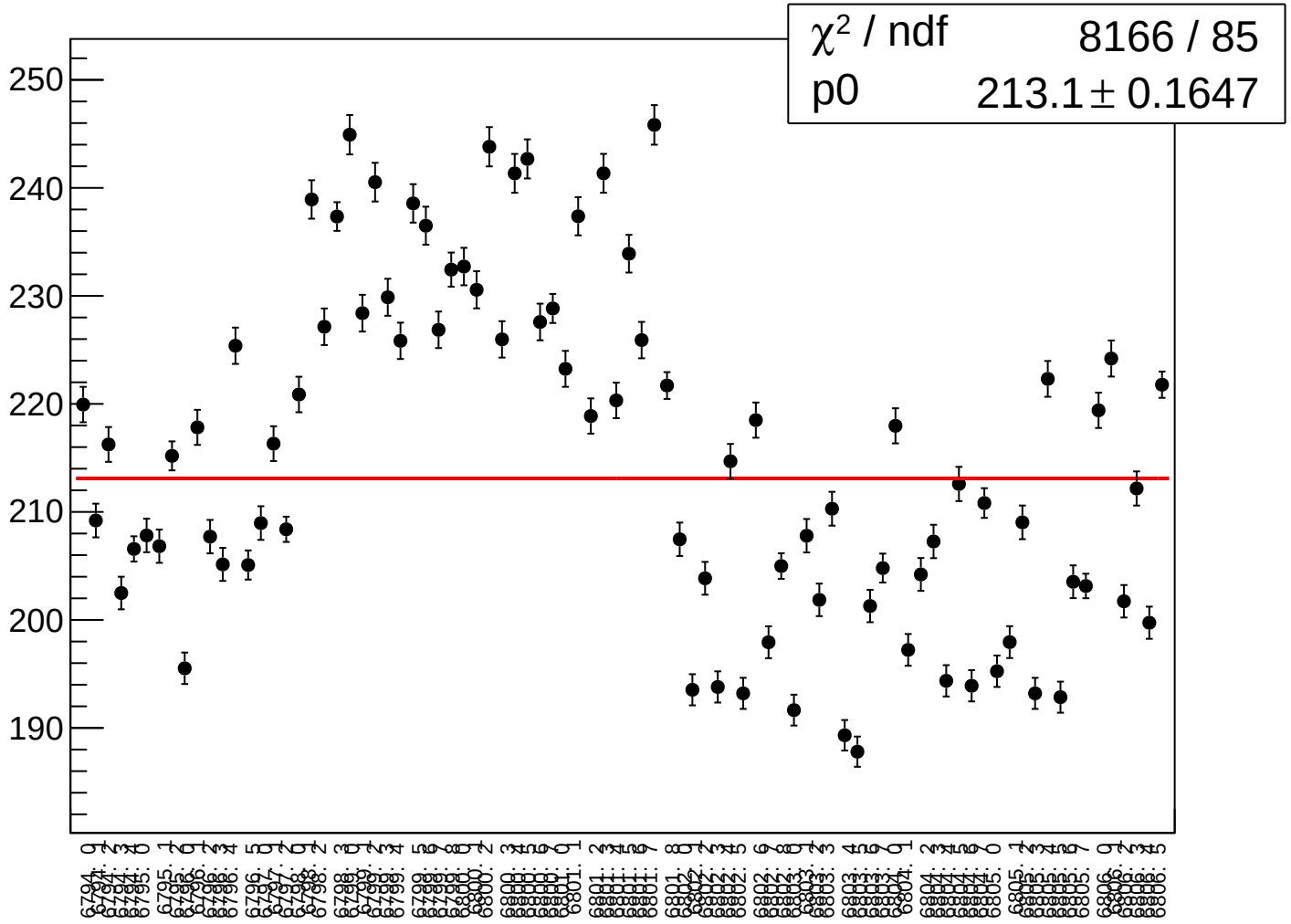

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.29 / 85
p0 58.99 ± 30.39
1000
500
0
−500
−1000
pull
Entries 86
Mean −958.3
Std Dev 0
3
2
1
0
−1
−2
−3

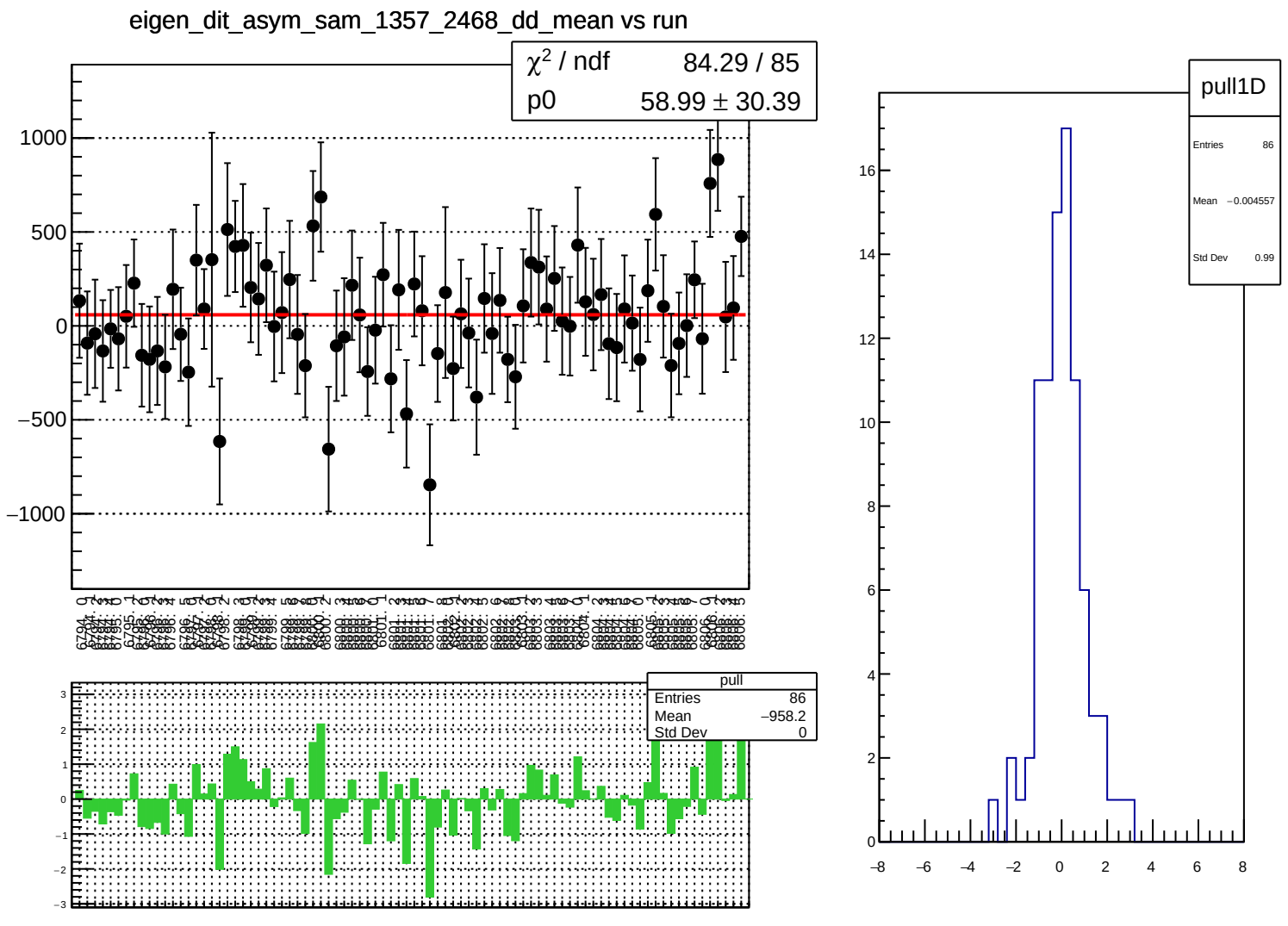

pull1D
Entries 86
Mean −0.004556
Std Dev 0.99
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

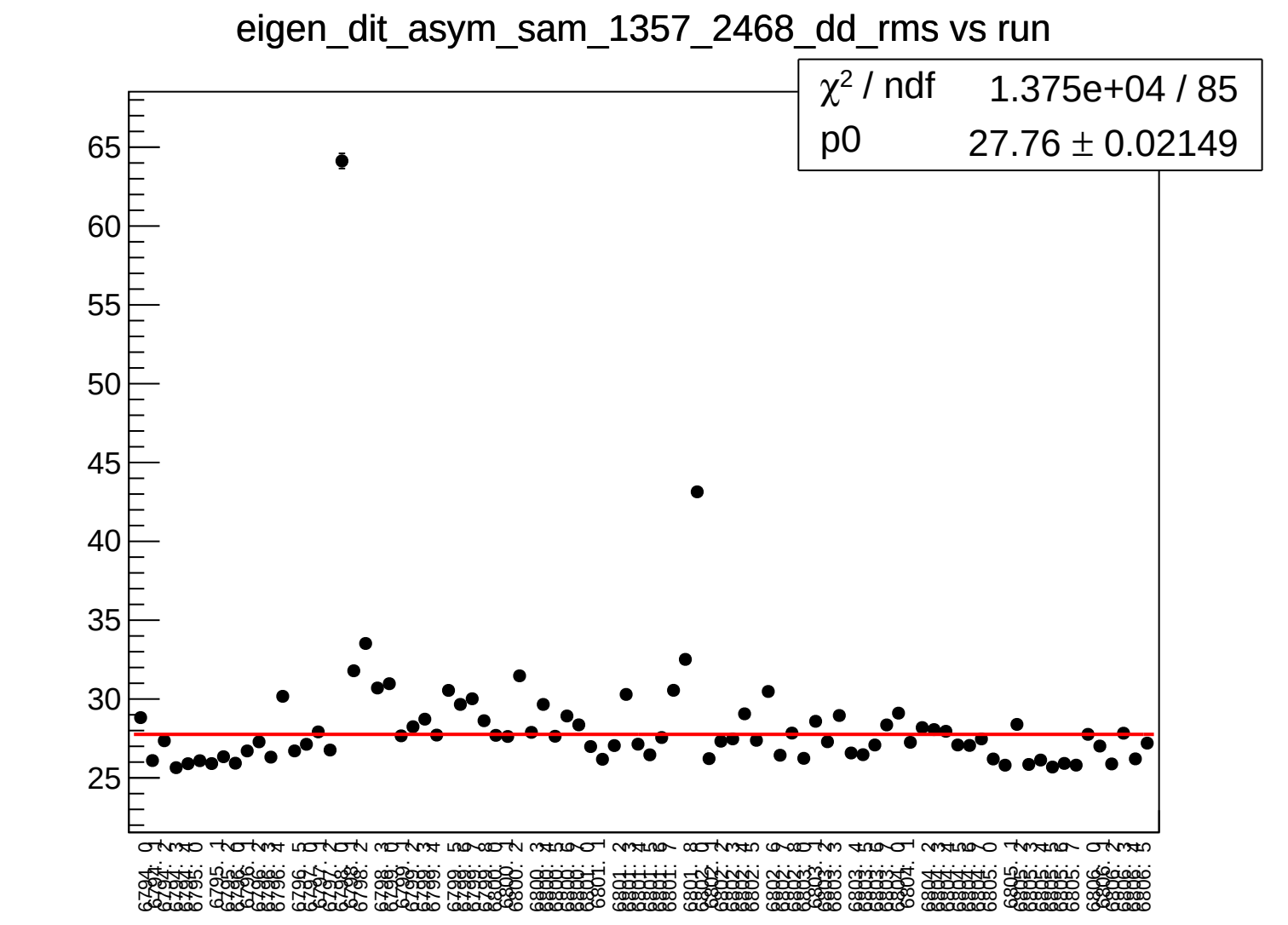

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.375e+04 / 85
p0 27.76 ± 0.02149
65
60
55
50
45
40
35
30
25

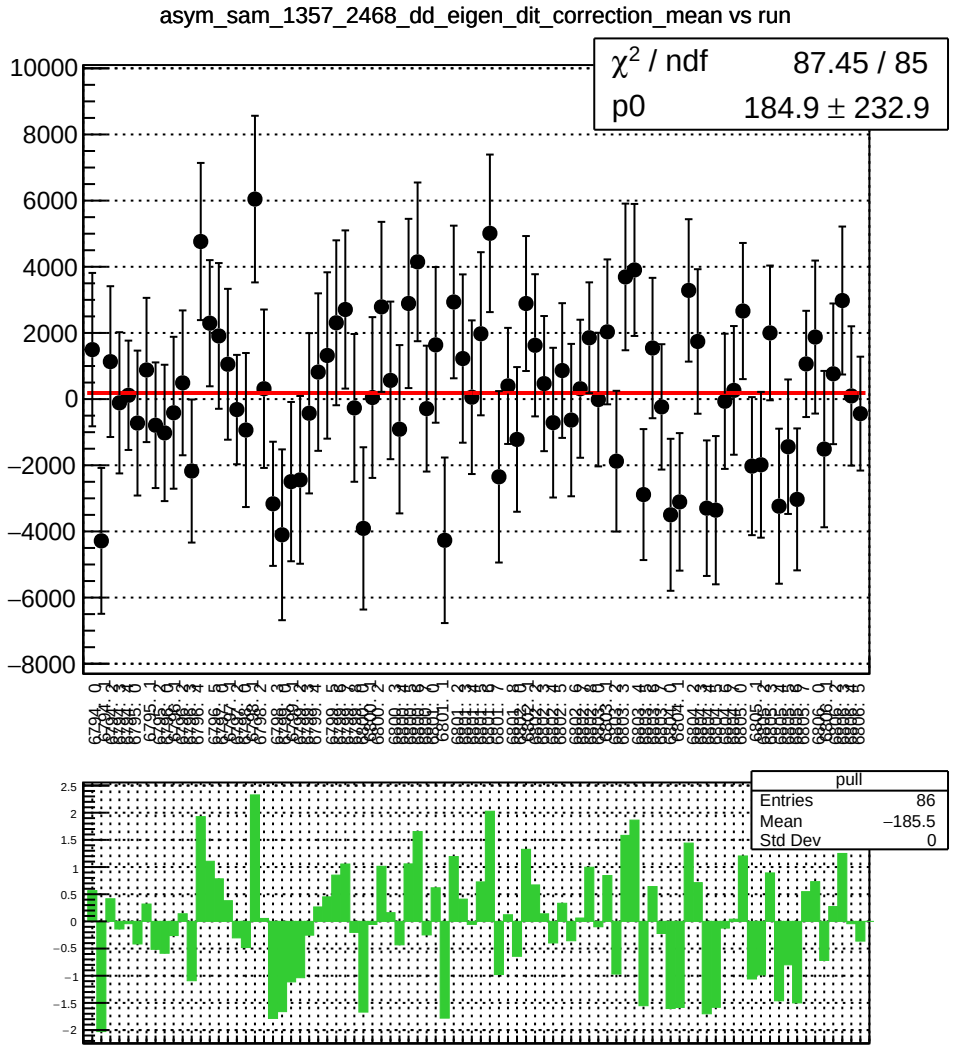

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 87.45 / 85
p0 184.9 ± 232.9
pull
Entries 86
Mean −185.5
Std Dev 0

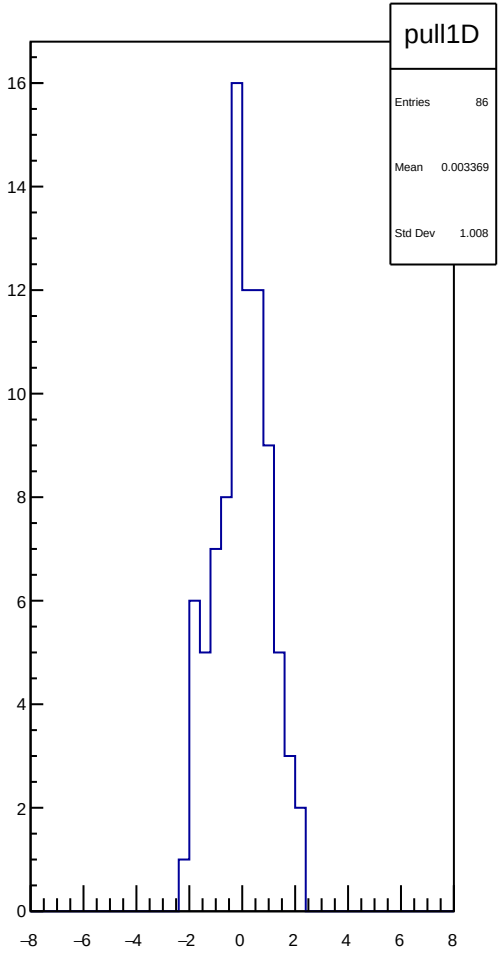

pull1D
Entries 86
Mean 0.003369
Std Dev 1.008

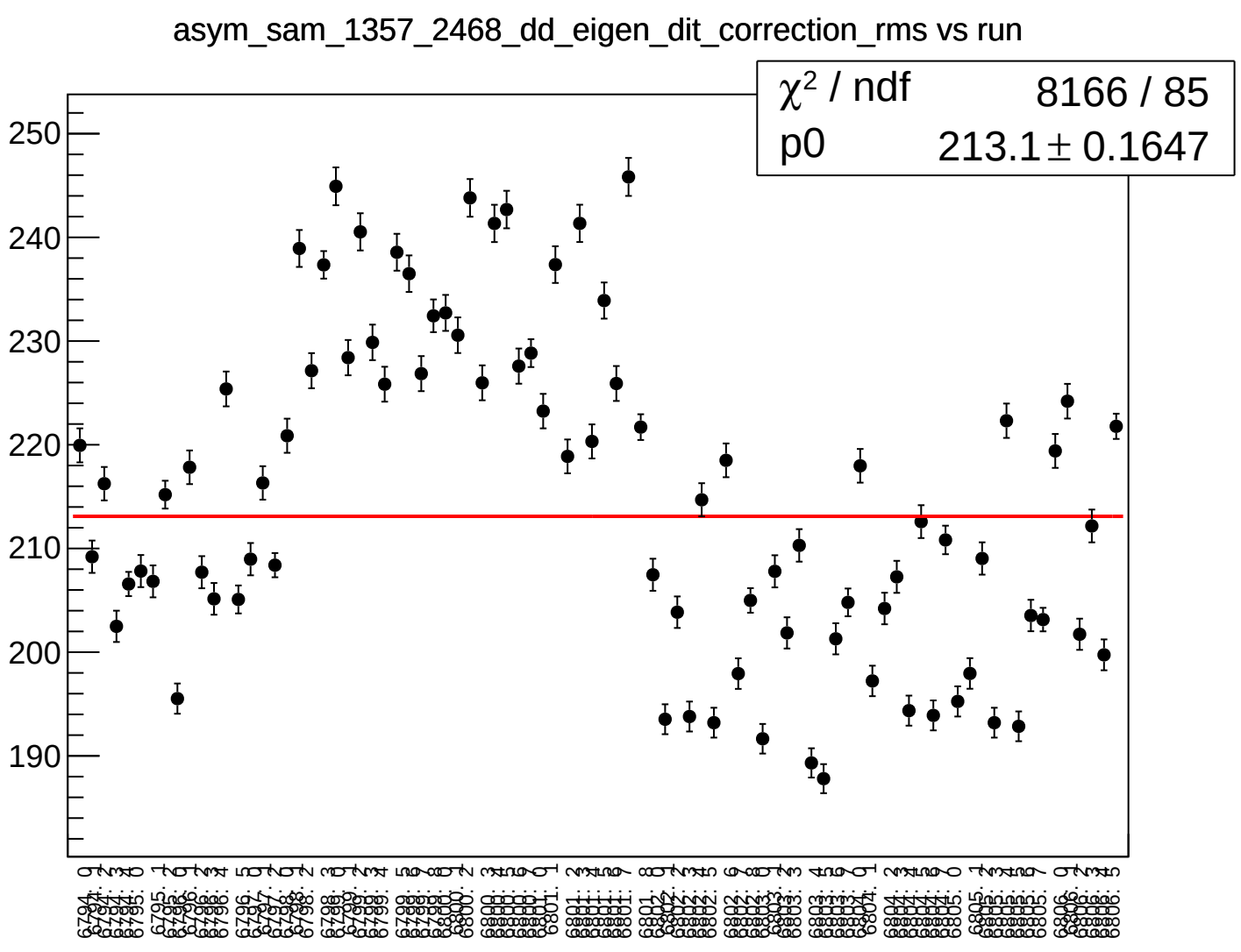

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 8166 / 85
p0 213.1 ± 0.1647
250
240
230
220
210
200
190

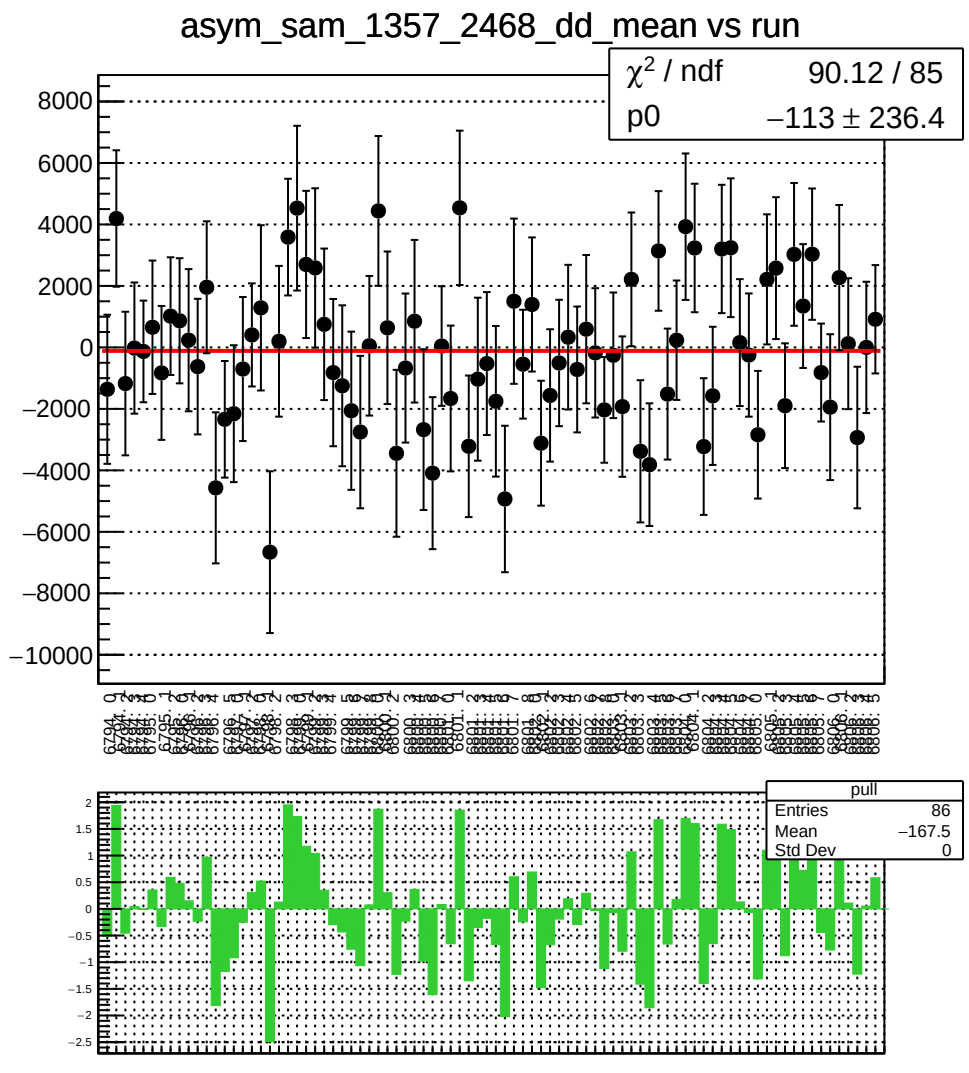

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 84.29 / 85
p0 58.99 ± 30.39
1000
500
0
−500
−1000
pull
Entries 86
Mean −958.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 86
Mean −0.004557
Std Dev 0.99
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

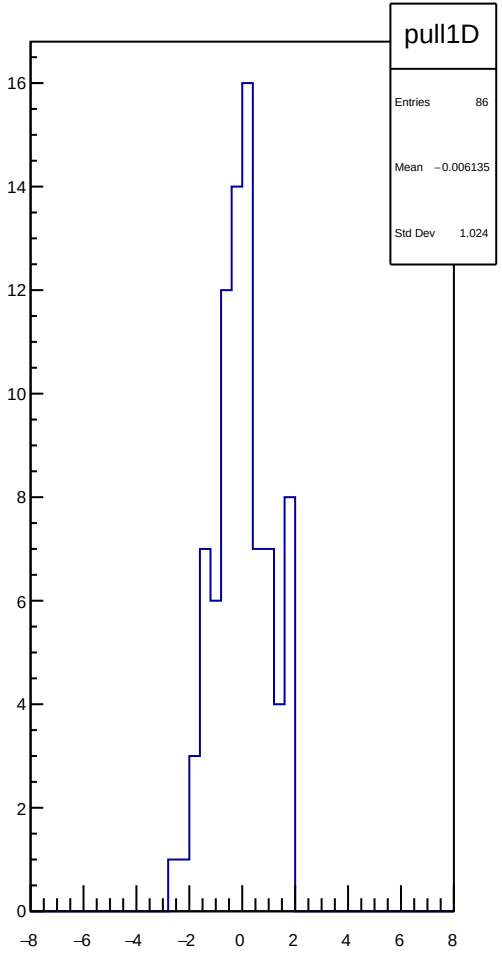

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 1.375e+04 / 85
p0 27.76 ± 0.02149
65
60
55
50
45
40
35
30
25

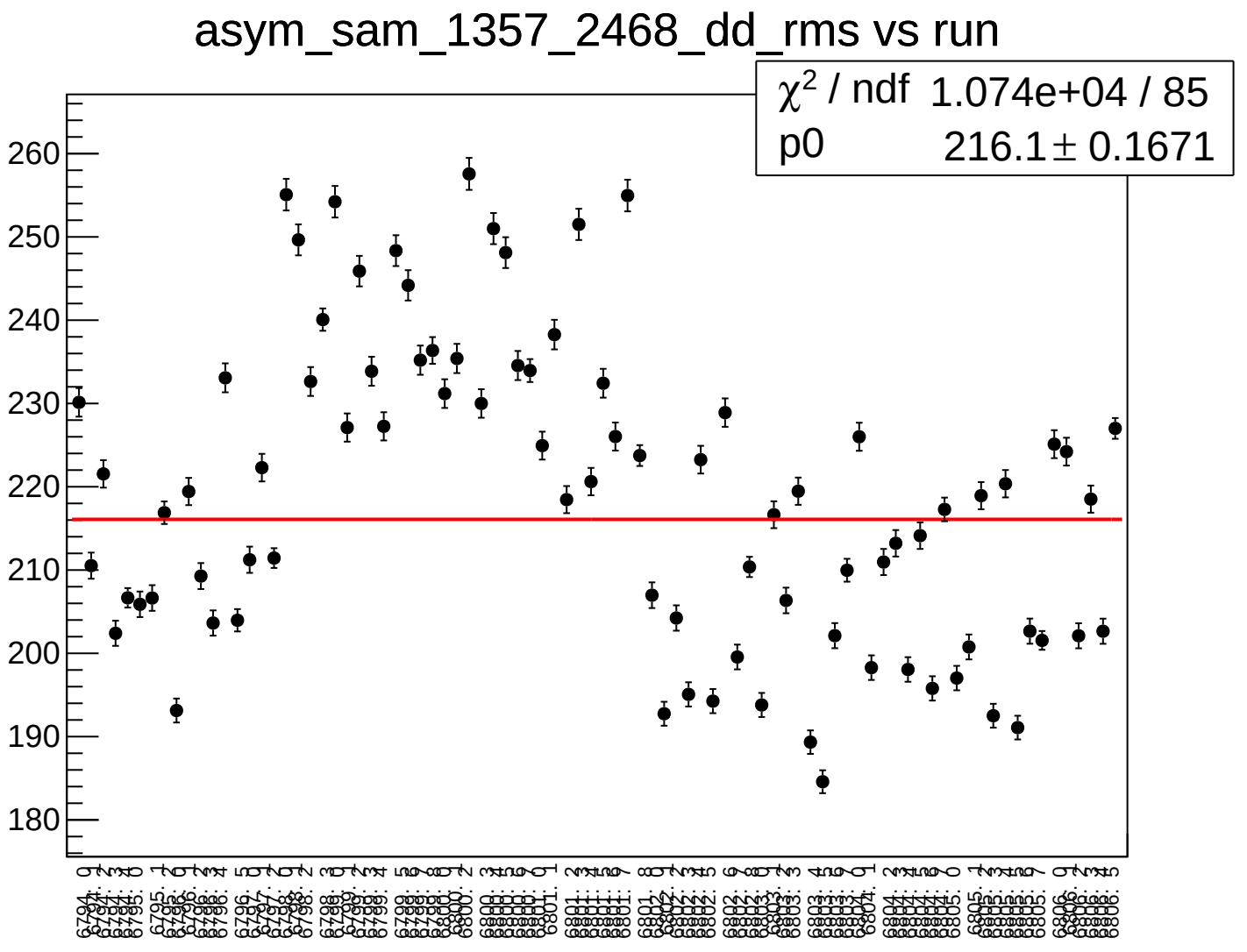

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 87.45 / 85
p0 184.9 ± 232.9
pull
Entries 86
Mean −185.5
Std Dev 0

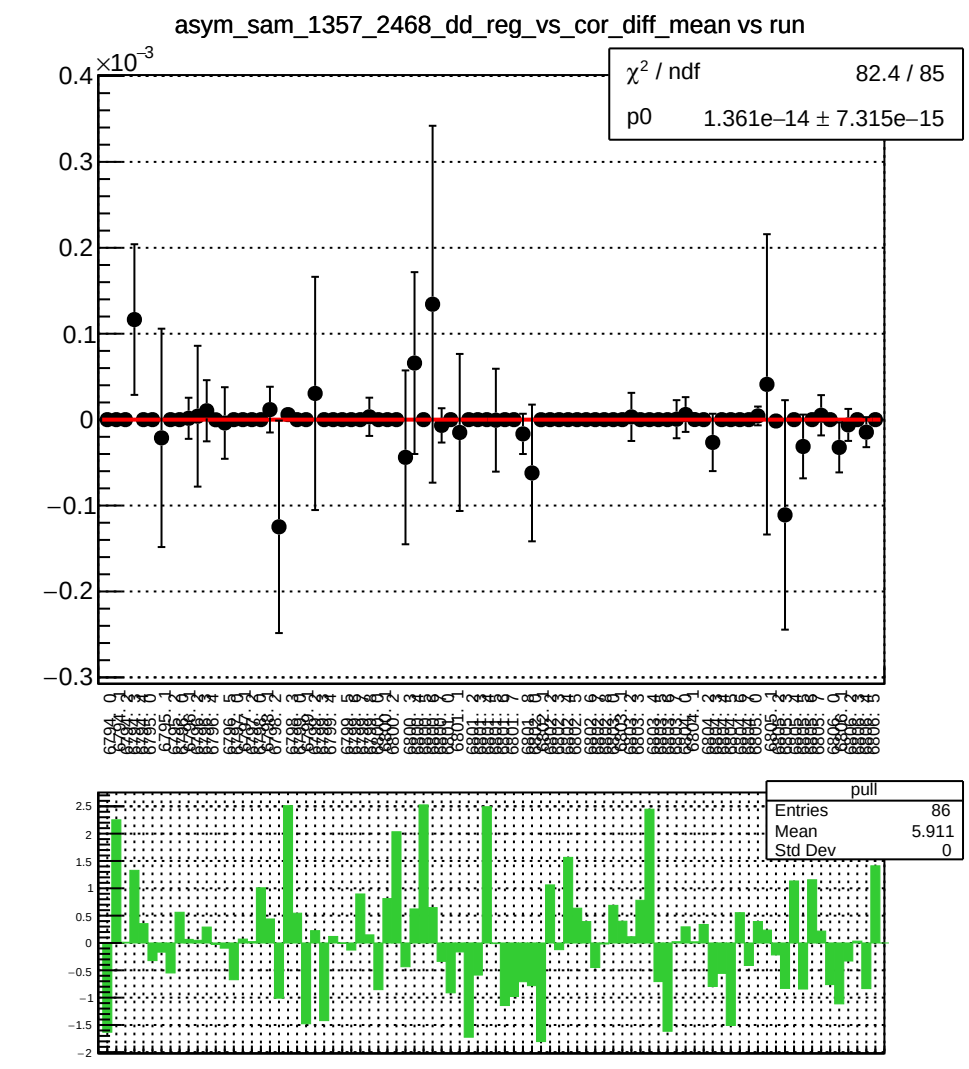

pull1D
Entries 86
Mean 0.003369
Std Dev 1.008

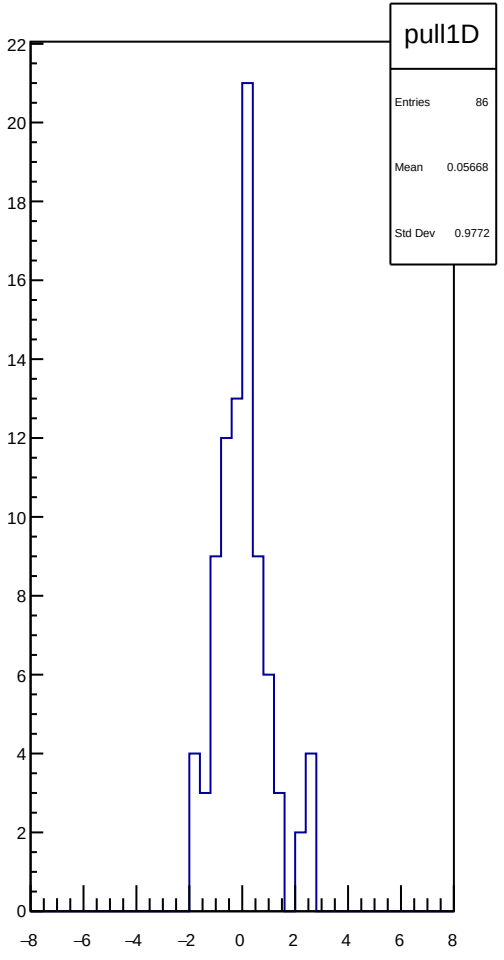

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 8166 / 85
p0 213.1 ± 0.1647
250
240
230
220
210
200
190

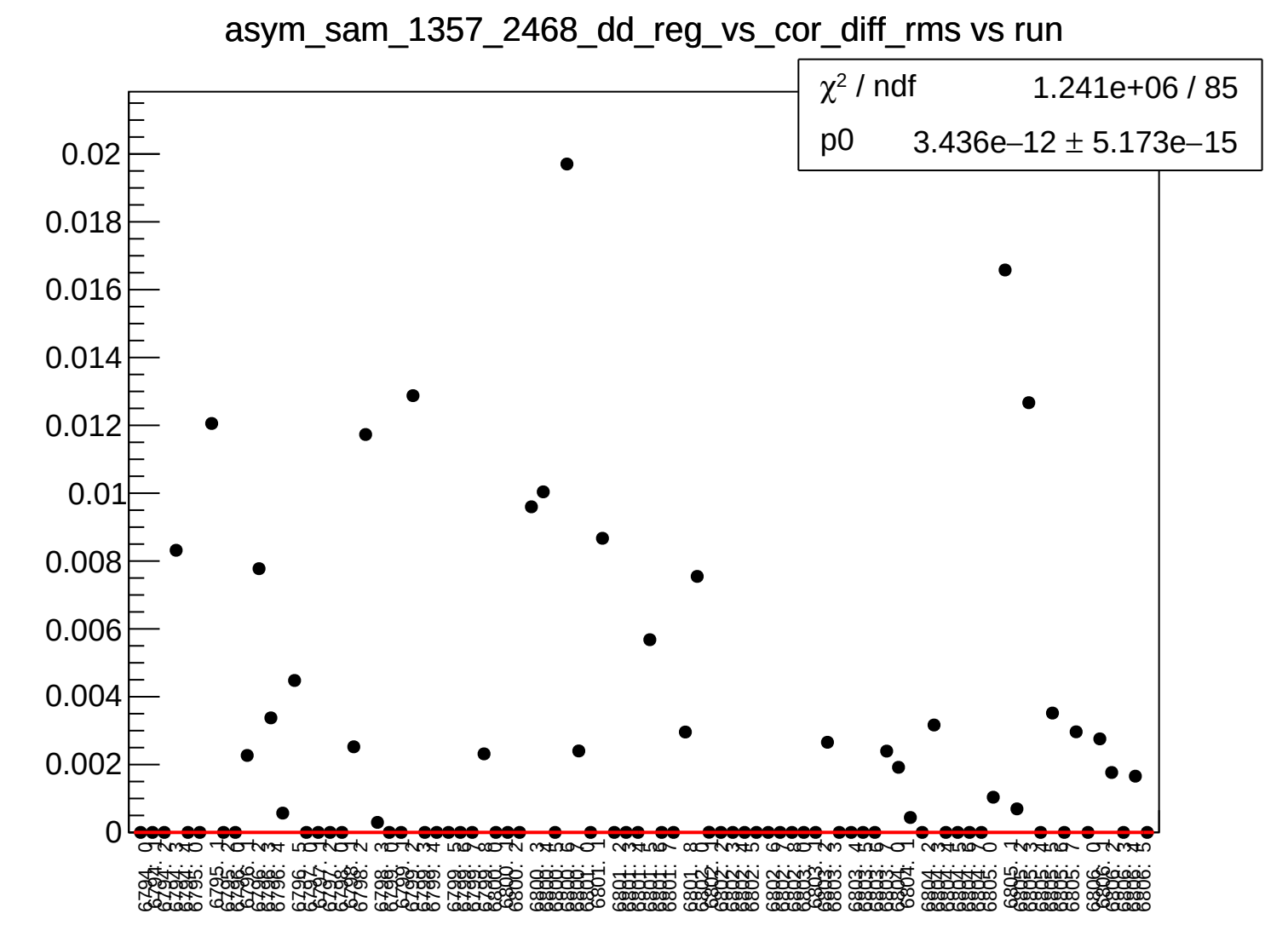

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 90.12 / 85
p0 −113 ± 236.4
pull
Entries 86
Mean −167.5
Std Dev 0

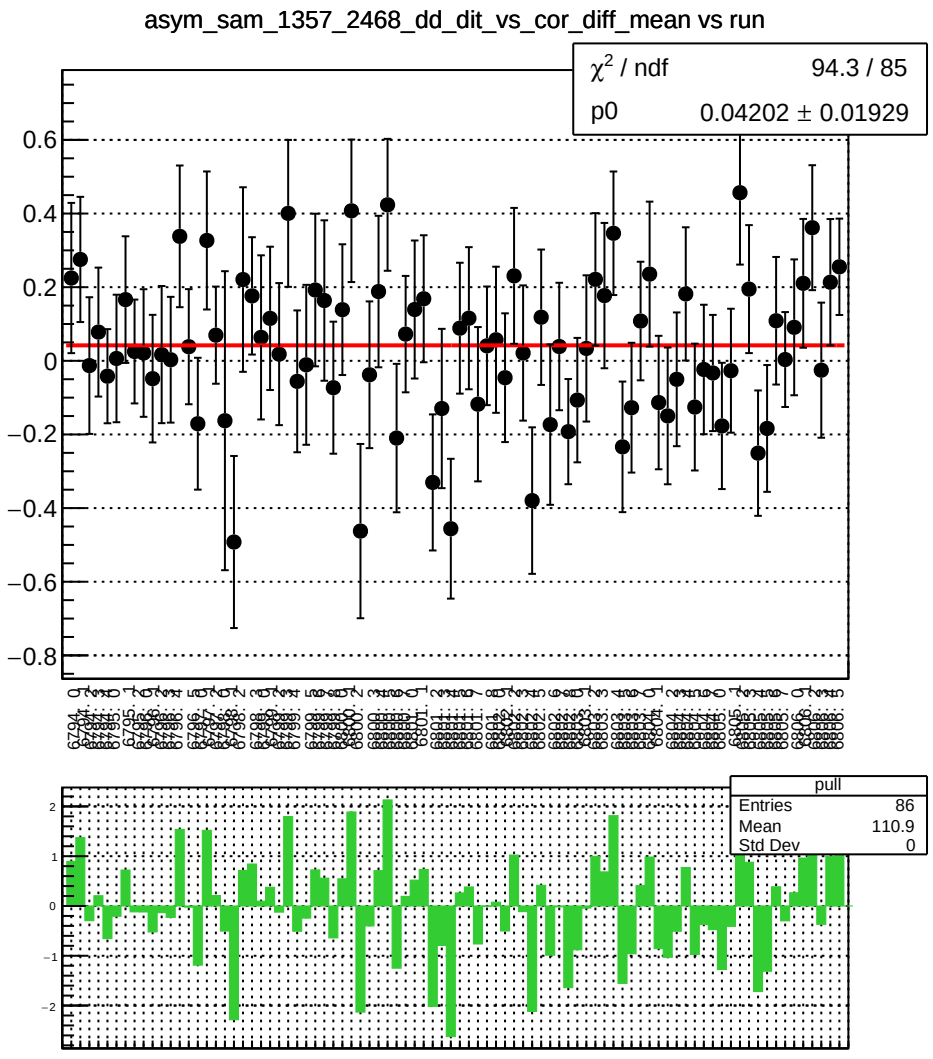

pull1D
Entries 86
Mean −0.006135
Std Dev 1.024

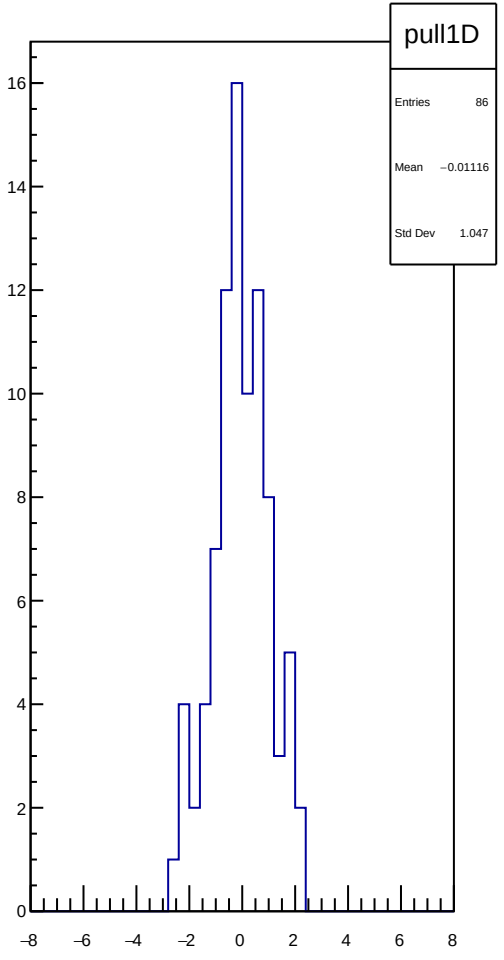

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.074e+04 / 85
p0 216.1 ± 0.1671
260
250
240
230
220
210
200
190
180

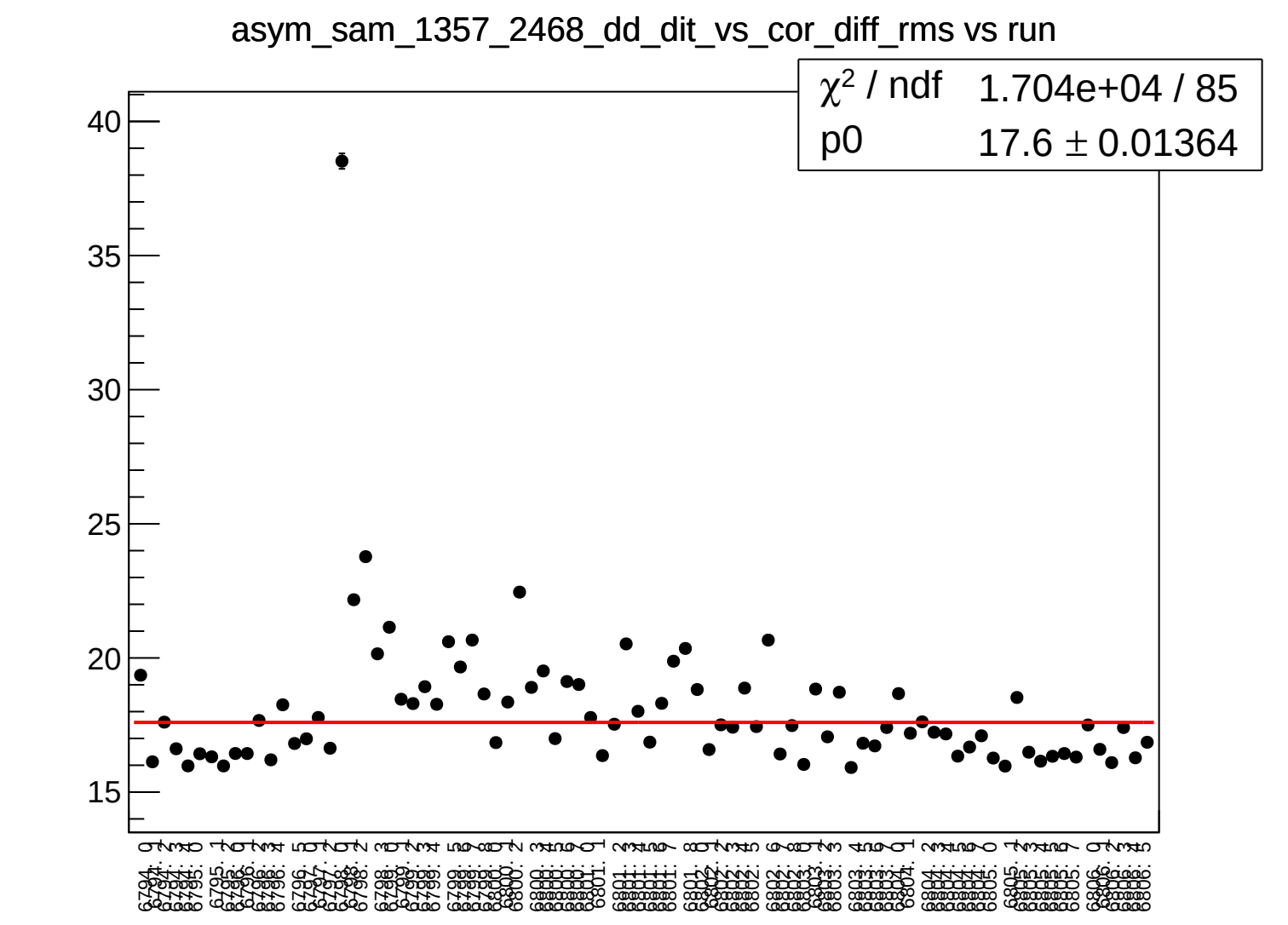

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 82.4 / 85
p0 1.361e−14 ± 7.315e−15
pull
Entries 86
Mean 5.911
Std Dev 0

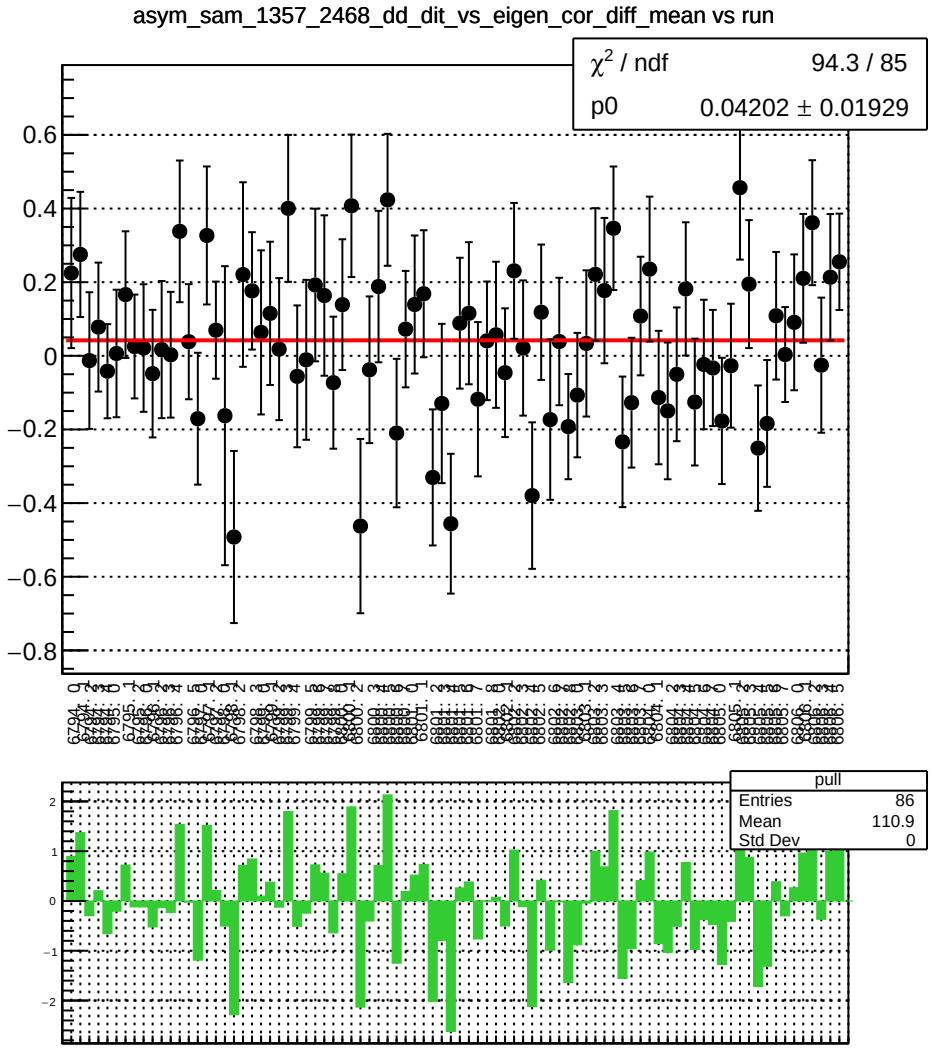

pull1D
Entries 86
Mean 0.05668
Std Dev 0.9772

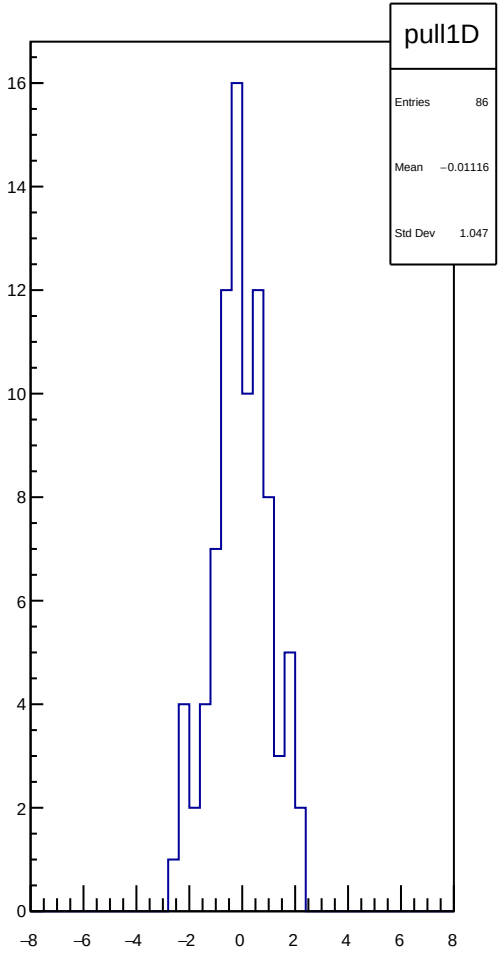

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.241e+06 / 85
p0 3.436e−12 ± 5.173e−15
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

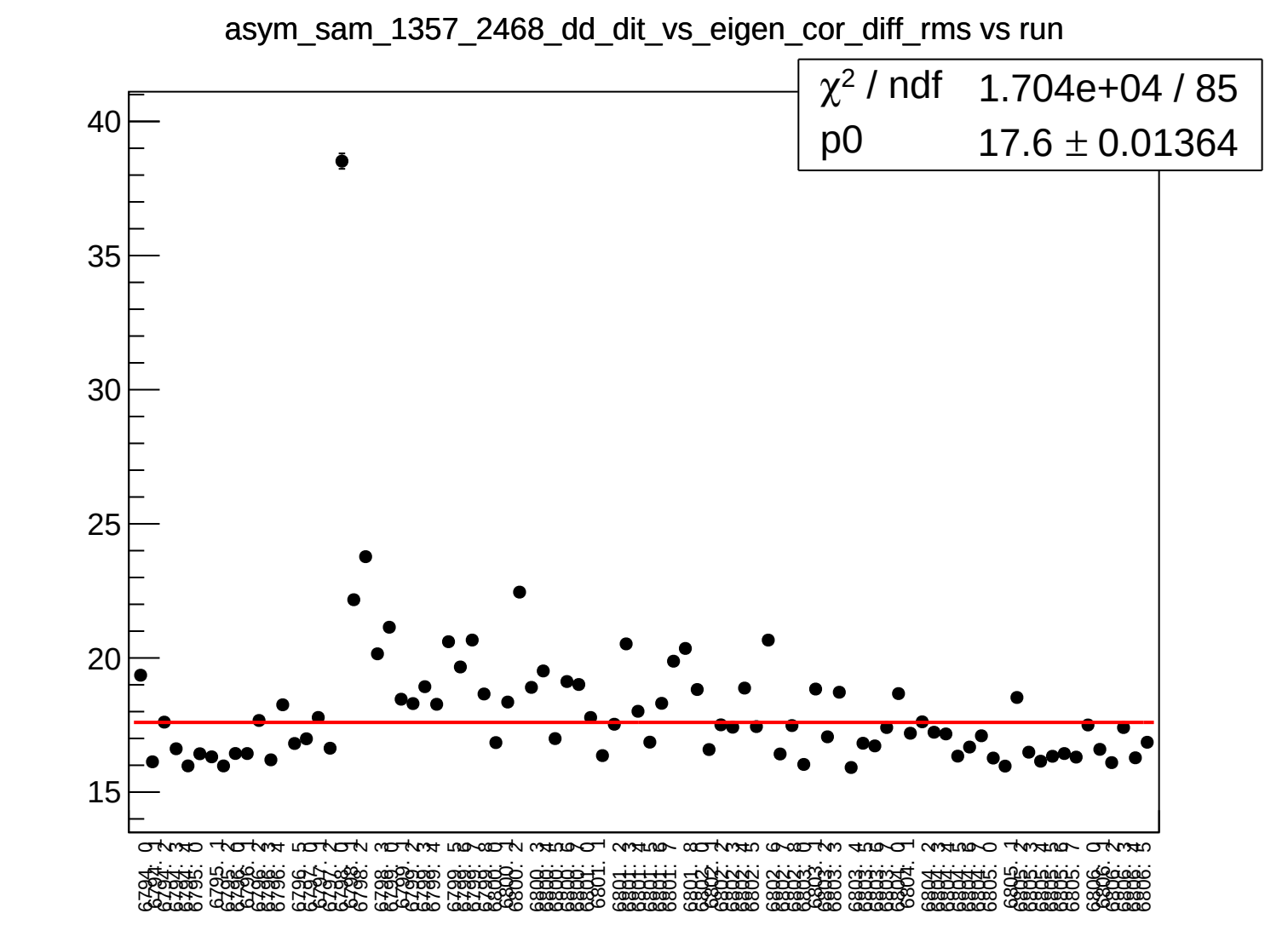

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.04202 ± 0.01929
pull
Entries 86
Mean 110.9
Std Dev 0

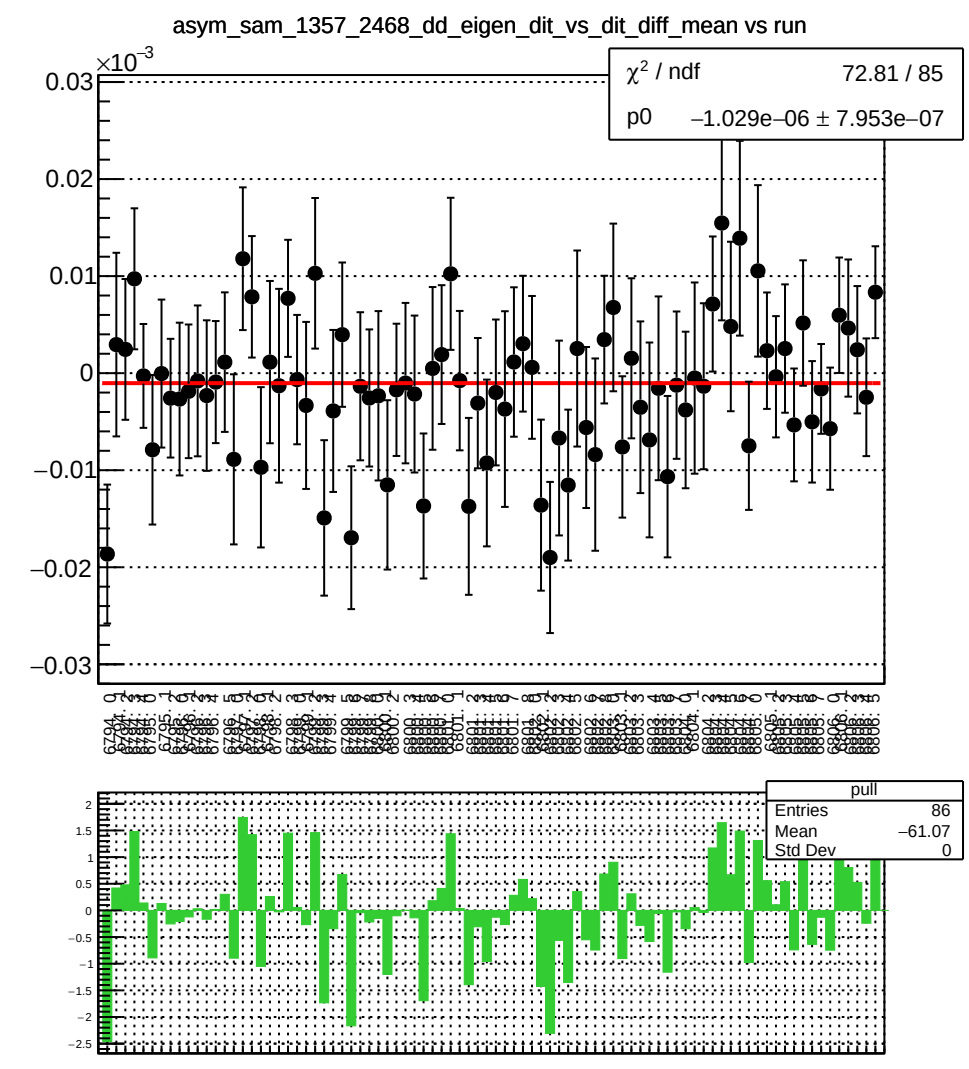

pull1D
Entries 86
Mean −0.01116
Std Dev 1.047

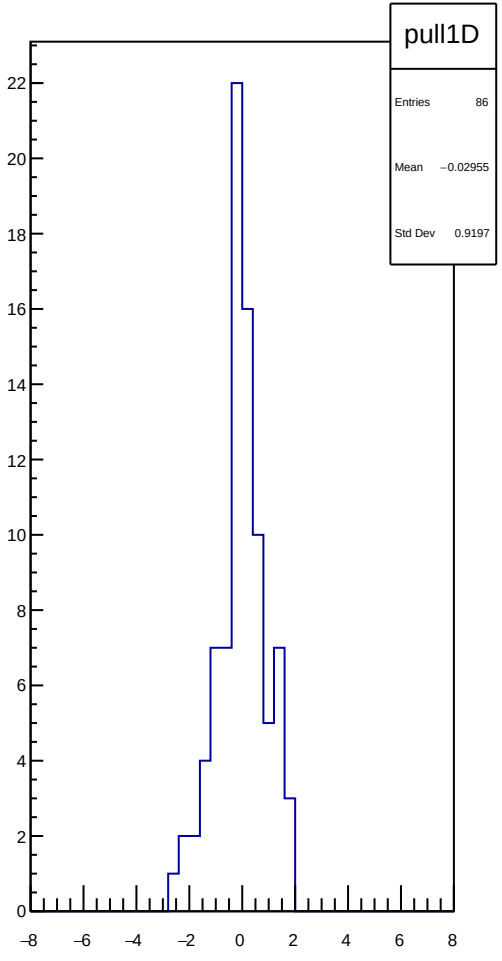

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+04 / 85
p0 17.6 ± 0.01364
40
35
30
25
20
15

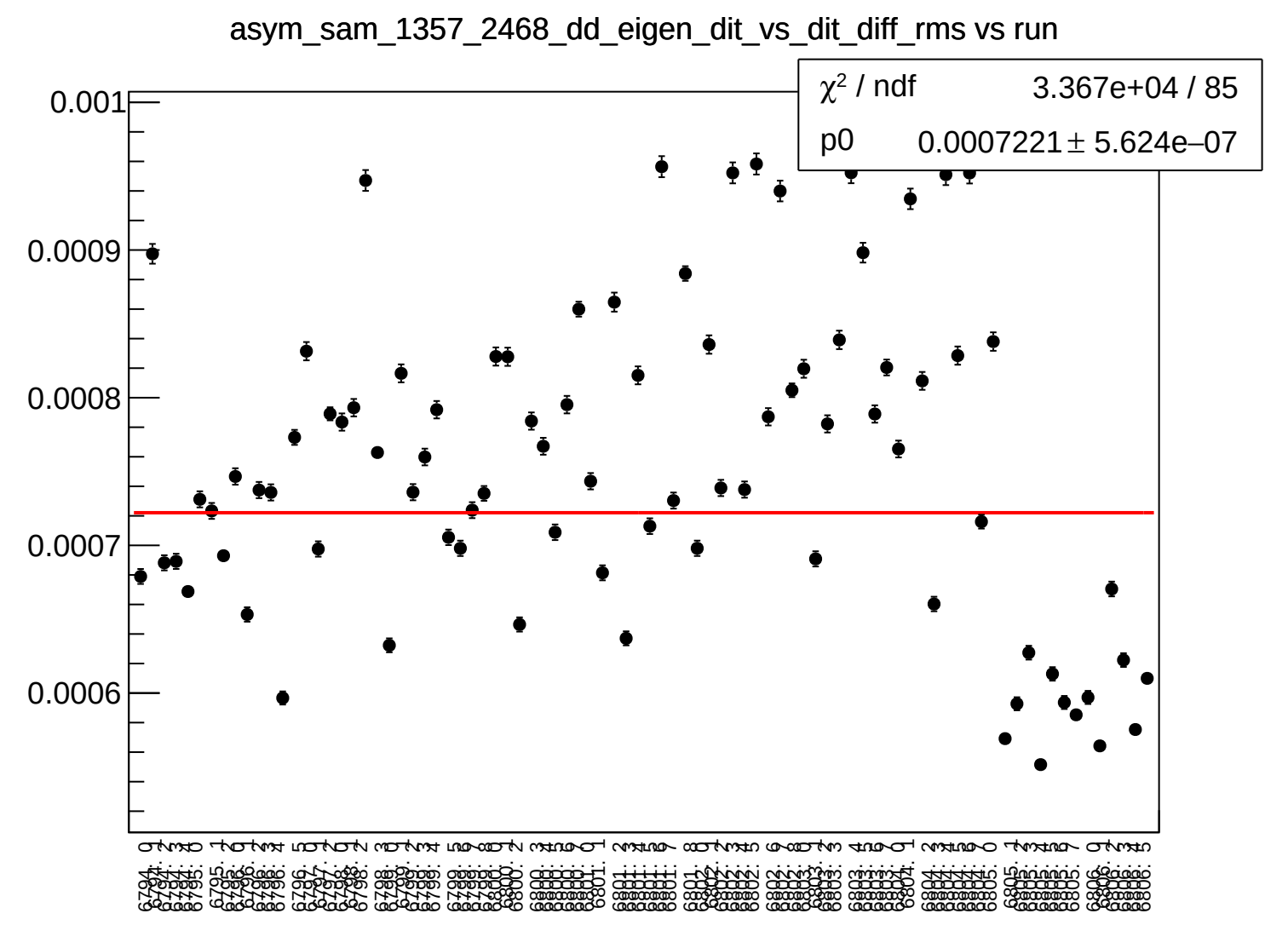

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.04202 ± 0.01929
pull
Entries 86
Mean 110.9
Std Dev 0

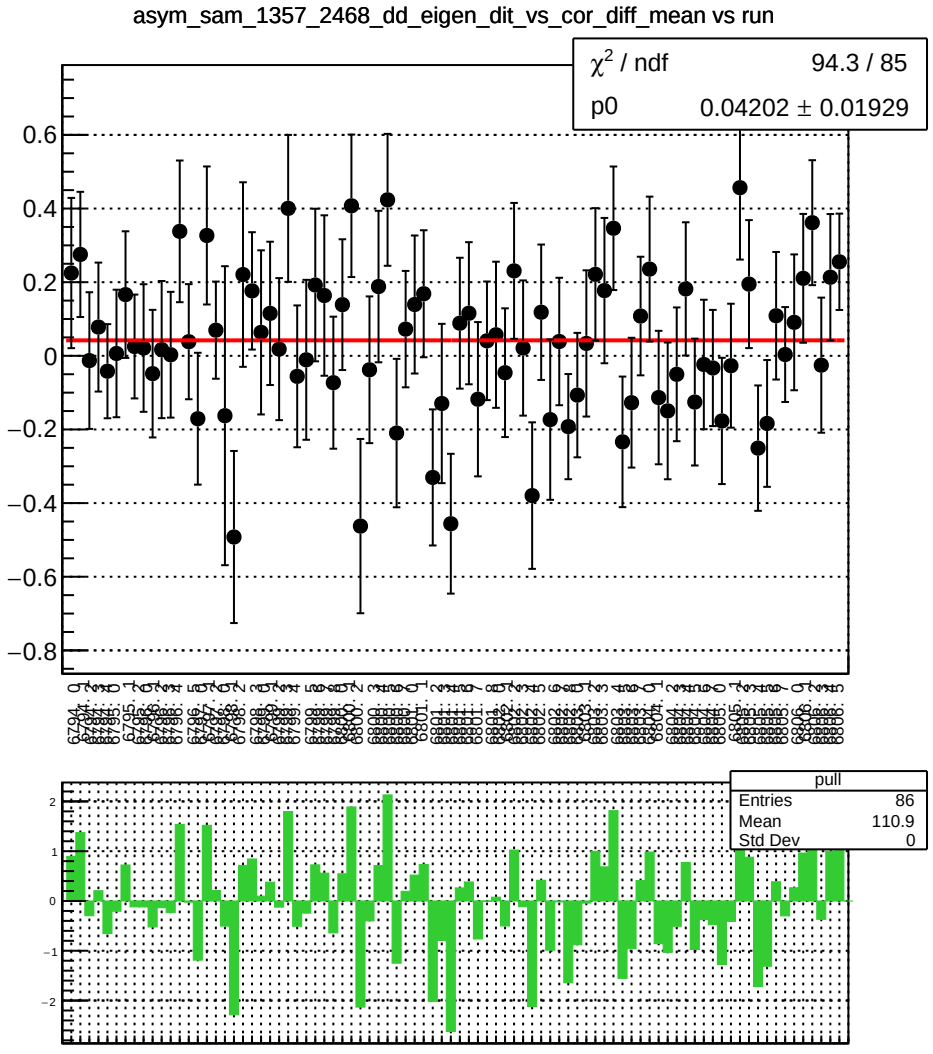

pull1D
Entries 86
Mean −0.01116
Std Dev 1.047

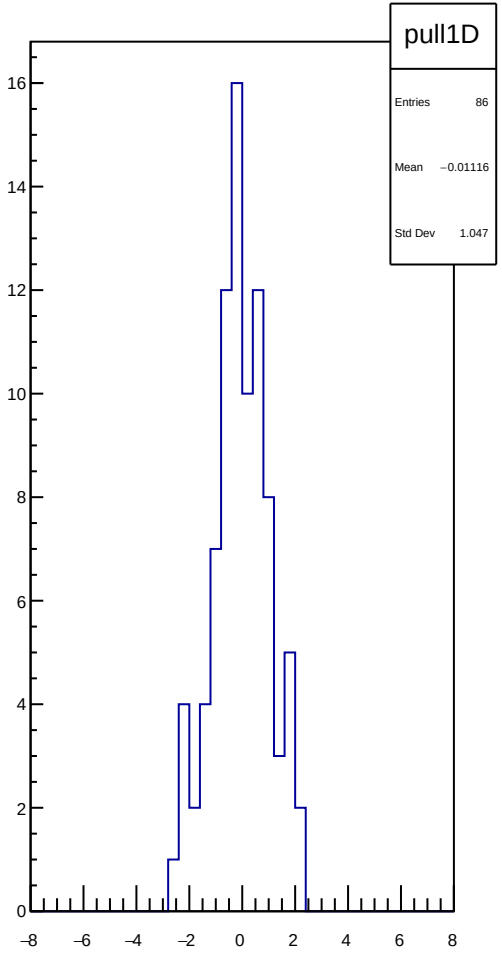

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+04 / 85
p0 17.6 ± 0.01364
40
35
30
25
20
15

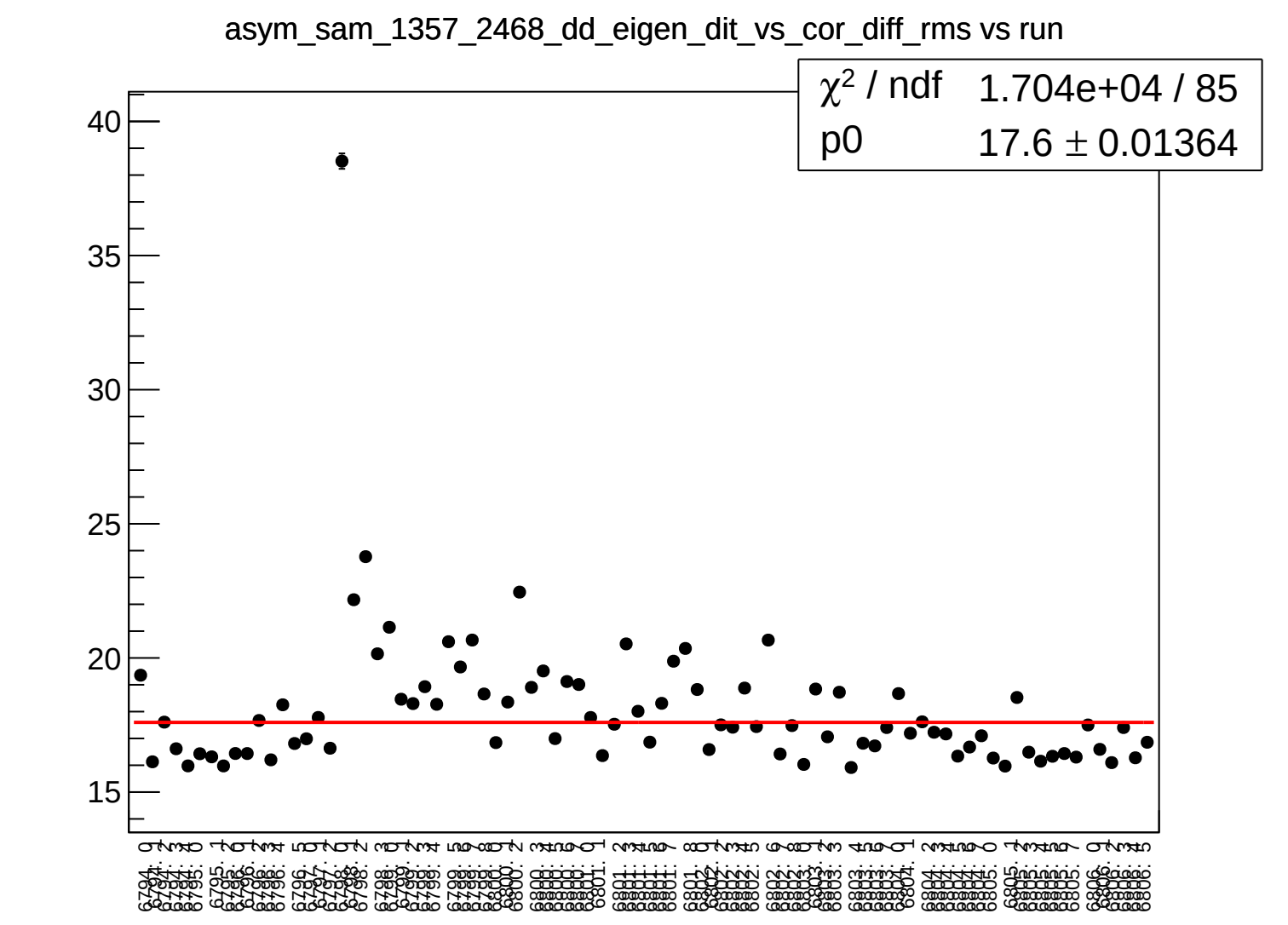

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.81 / 85
p0 −1.029e−06 ± 7.953e−07
pull
Entries 86
Mean −61.07
Std Dev 0

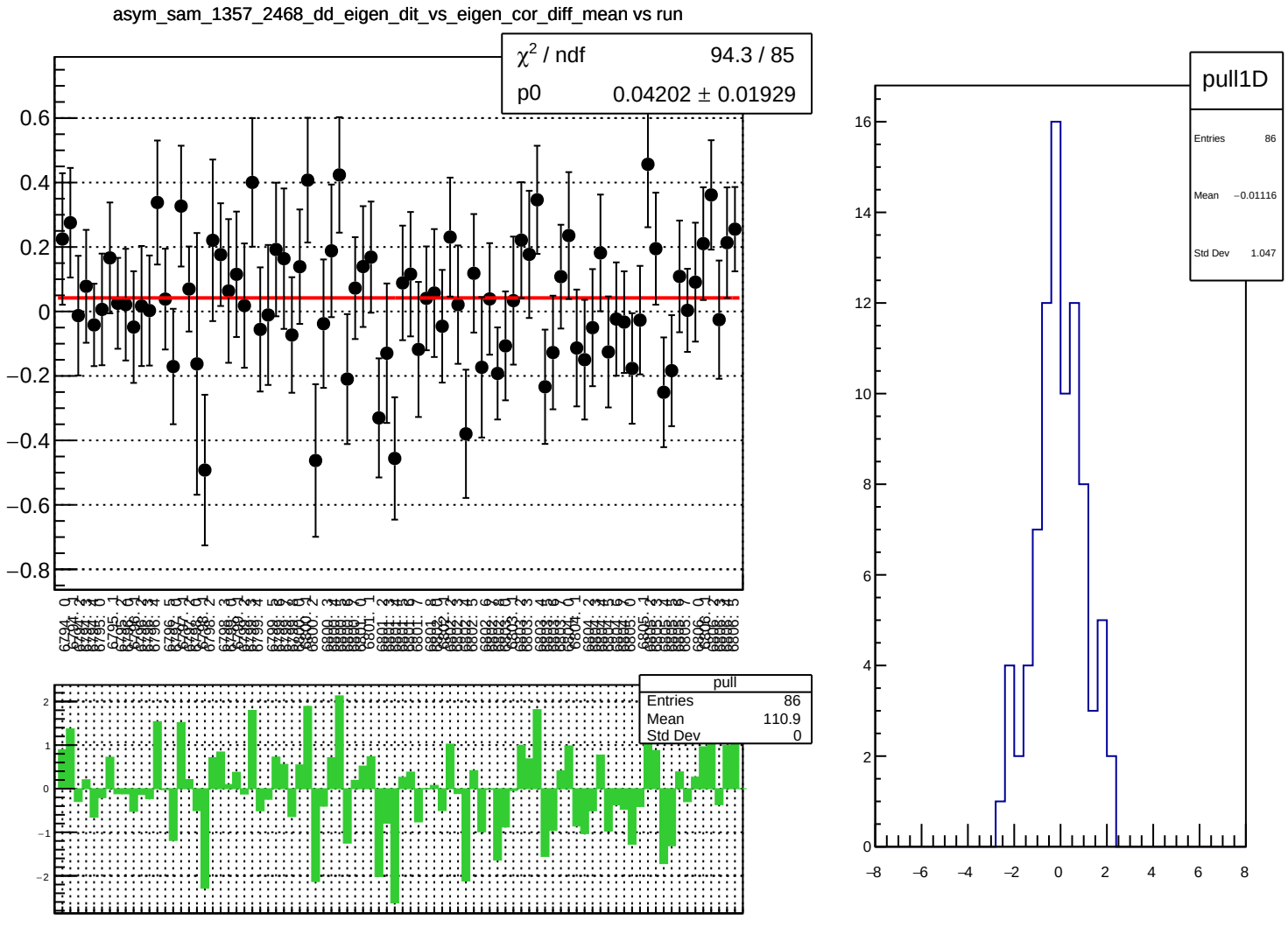

pull1D
Entries 86
Mean −0.02955
Std Dev 0.9197

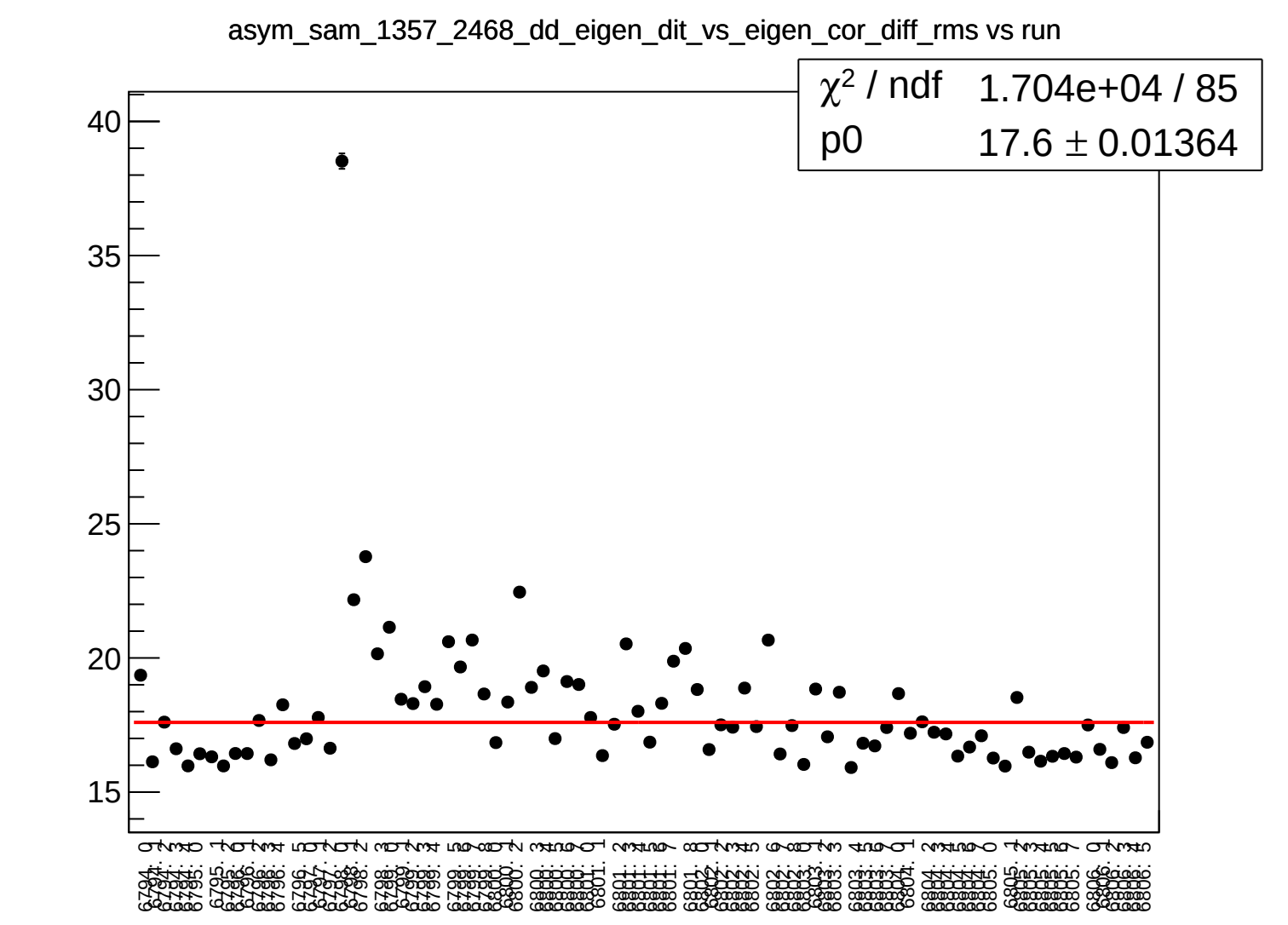

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.367e+04 / 85
p0 0.0007221 ± 5.624e−07
0.001
0.0009
0.0008
0.0007
0.0006

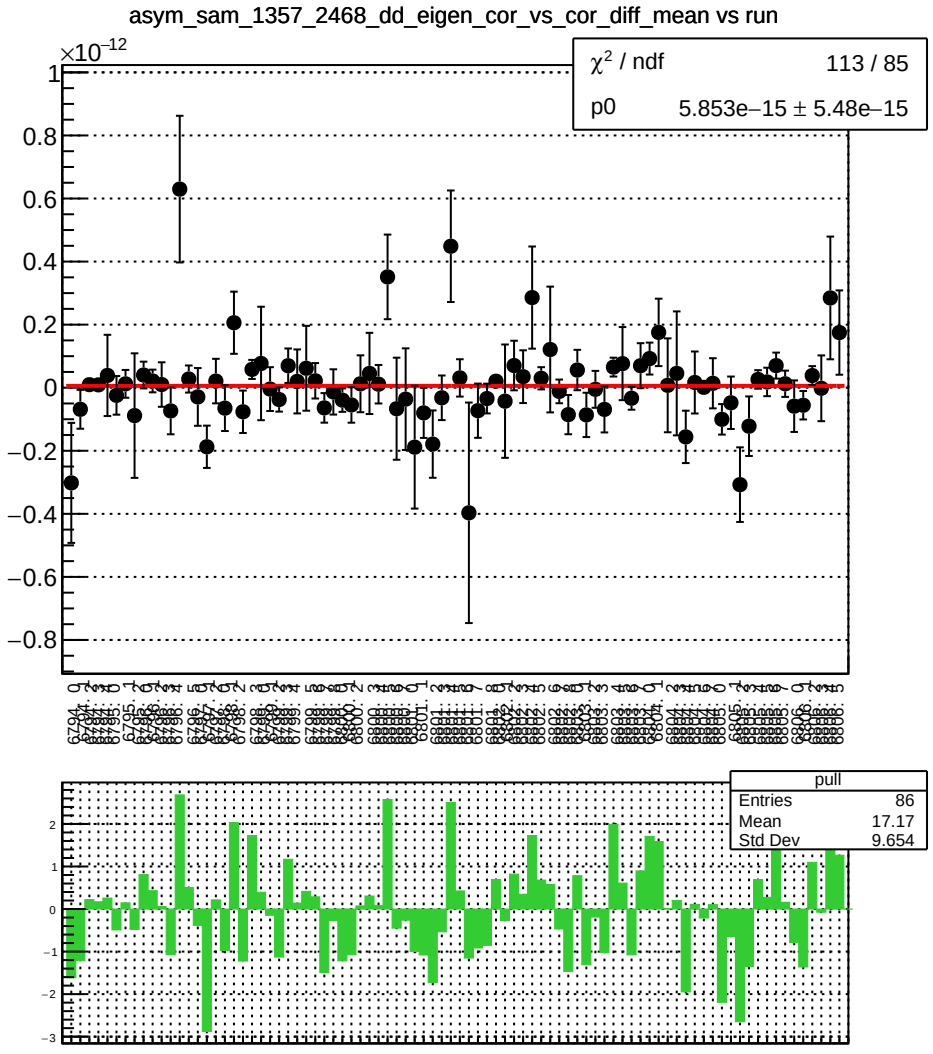

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.04202 ± 0.01929
pull
Entries 86
Mean 110.9
Std Dev 0

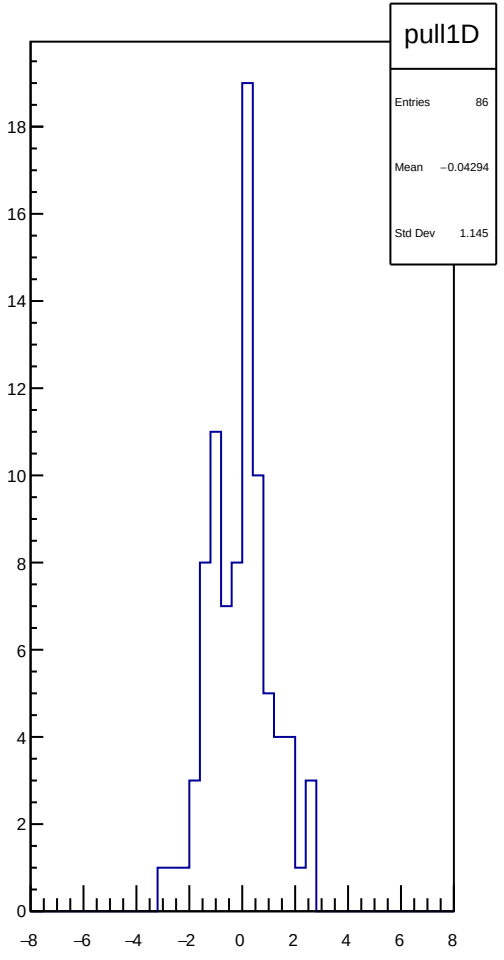

pull1D
Entries 86
Mean −0.01116
Std Dev 1.047

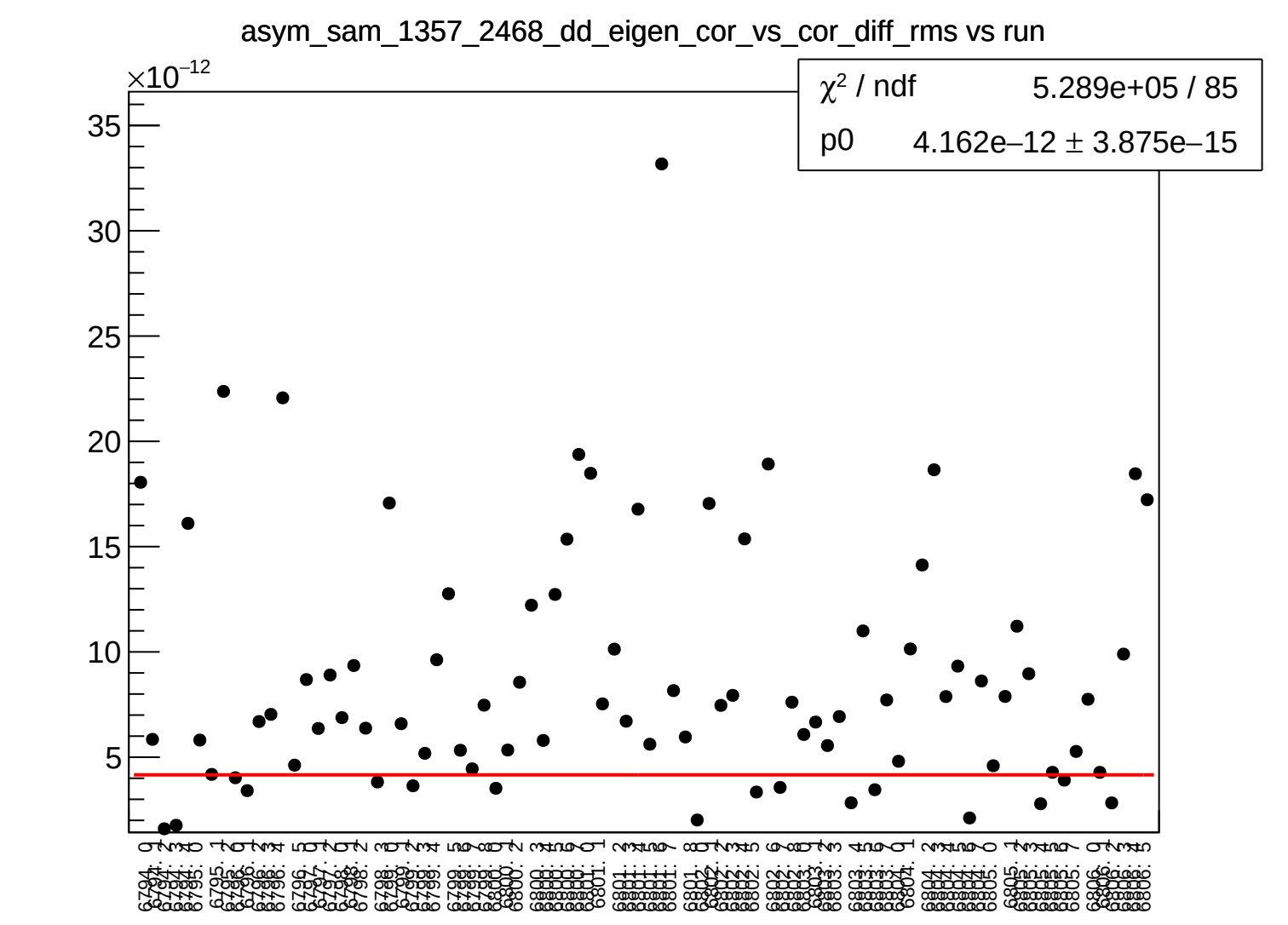

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.704e+04 / 85
p0 17.6 ± 0.01364
40
35
30
25
20
15

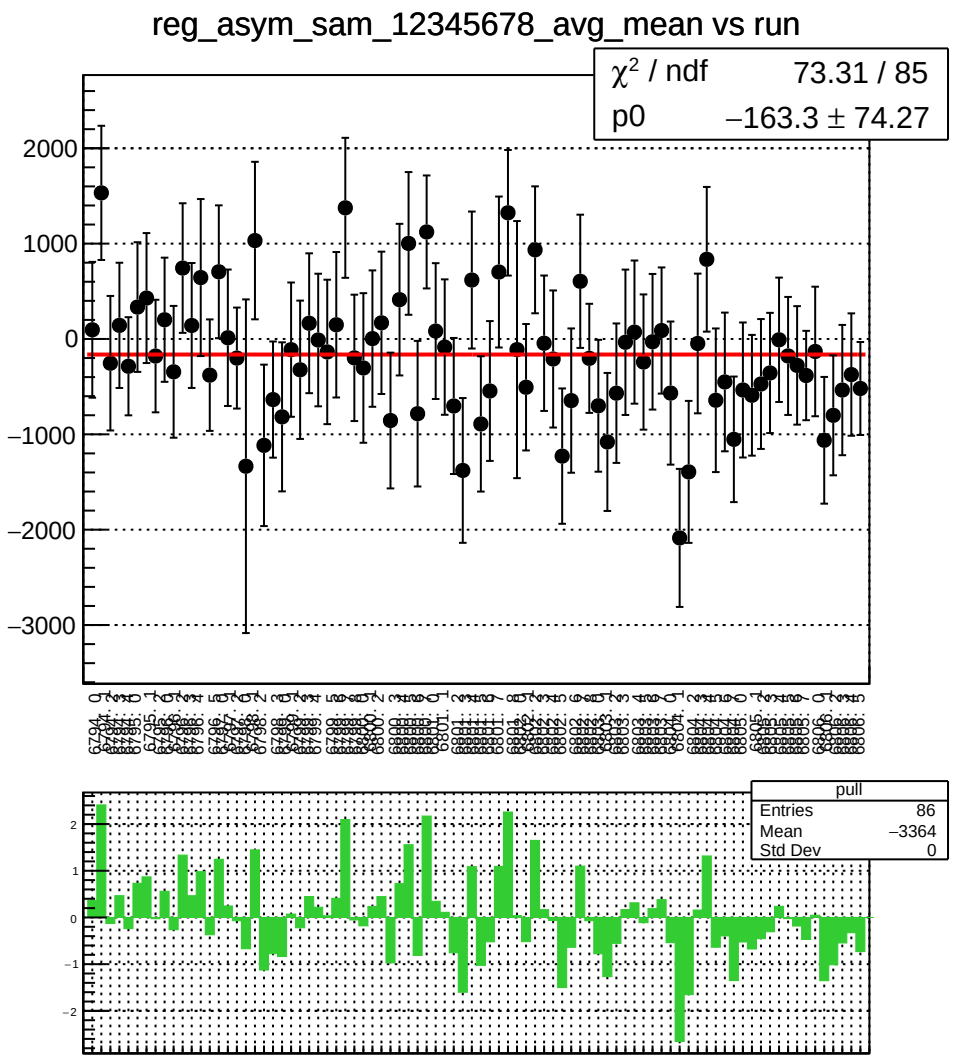

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.3 / 85
p0 0.04202 ± 0.01929
pull
Entries 86
Mean 110.9
Std Dev 0
pull1D
Entries 86
Mean −0.01116
Std Dev 1.047

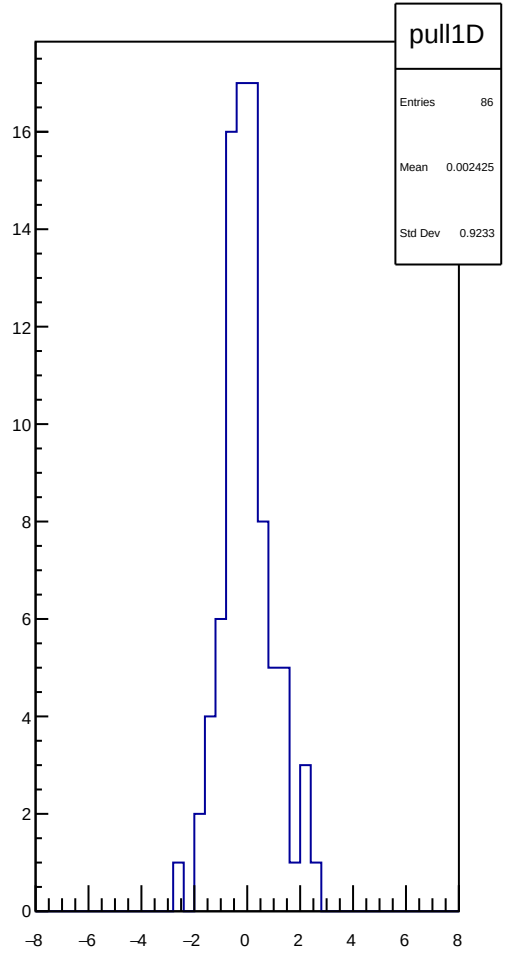

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.704e+04 / 85
p0 17.6 ± 0.01364
40
35
30
25
20
15

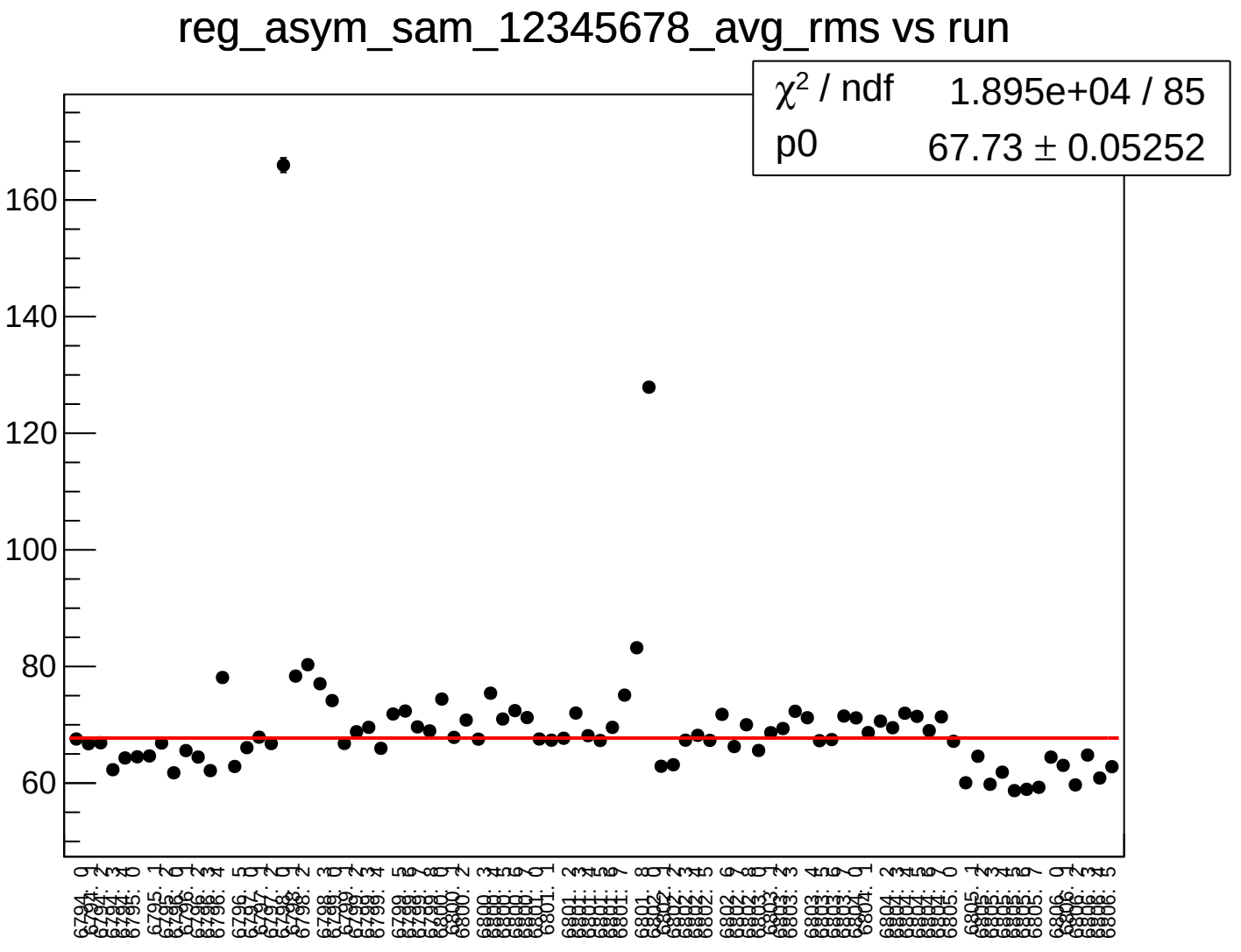

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113 / 85
p0 5.853e−15 ± 5.48e−15
pull
Entries 86
Mean 17.17
Std Dev 9.654

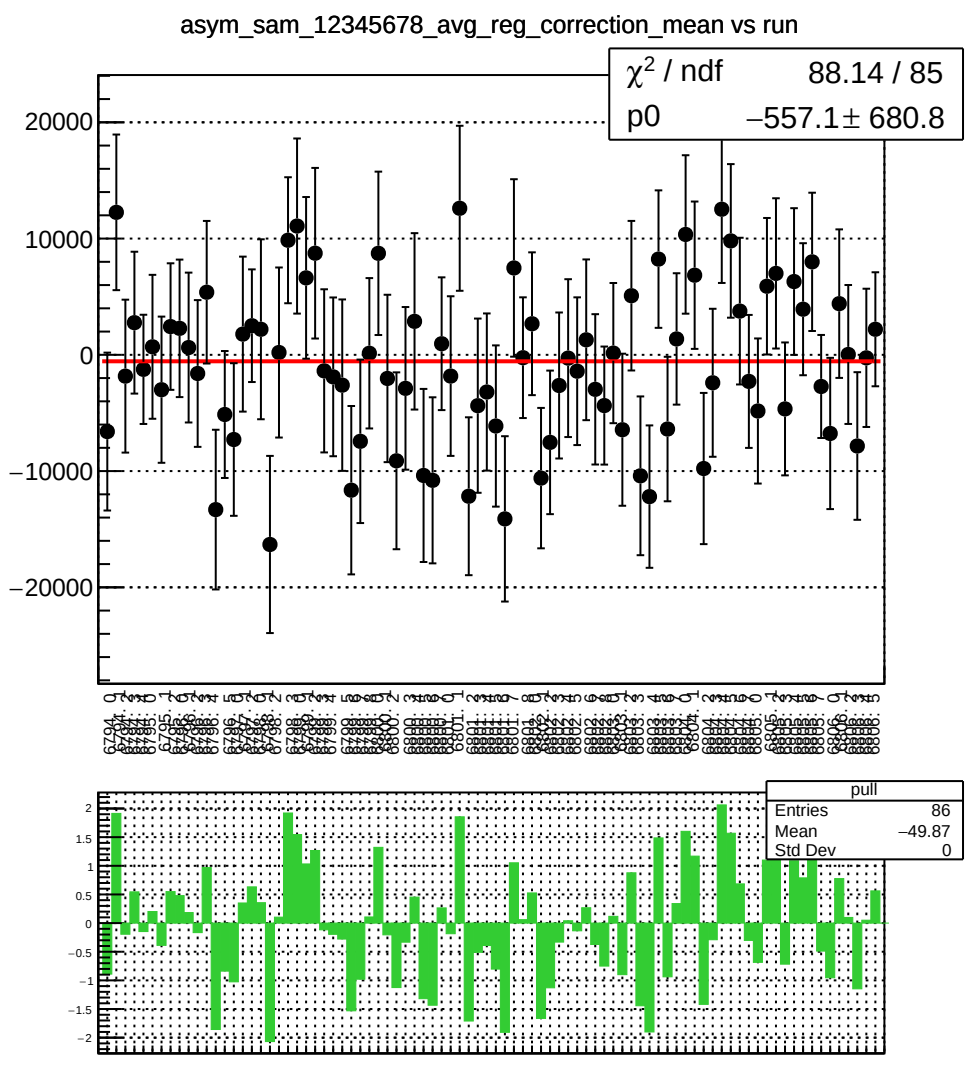

pull1D
Entries 86
Mean −0.04294
Std Dev 1.145

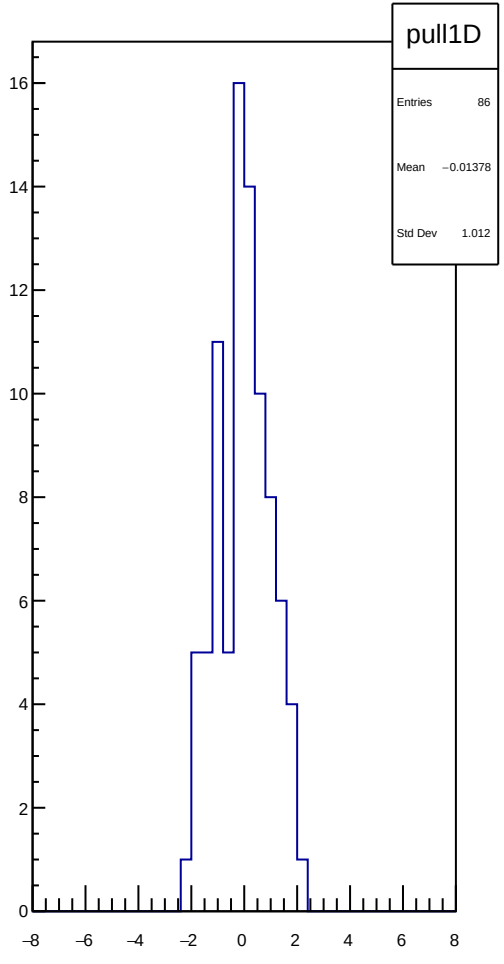

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.289e+05 / 85
p0 4.162e−12 ± 3.875e−15
35
30
25
20
15
10
5

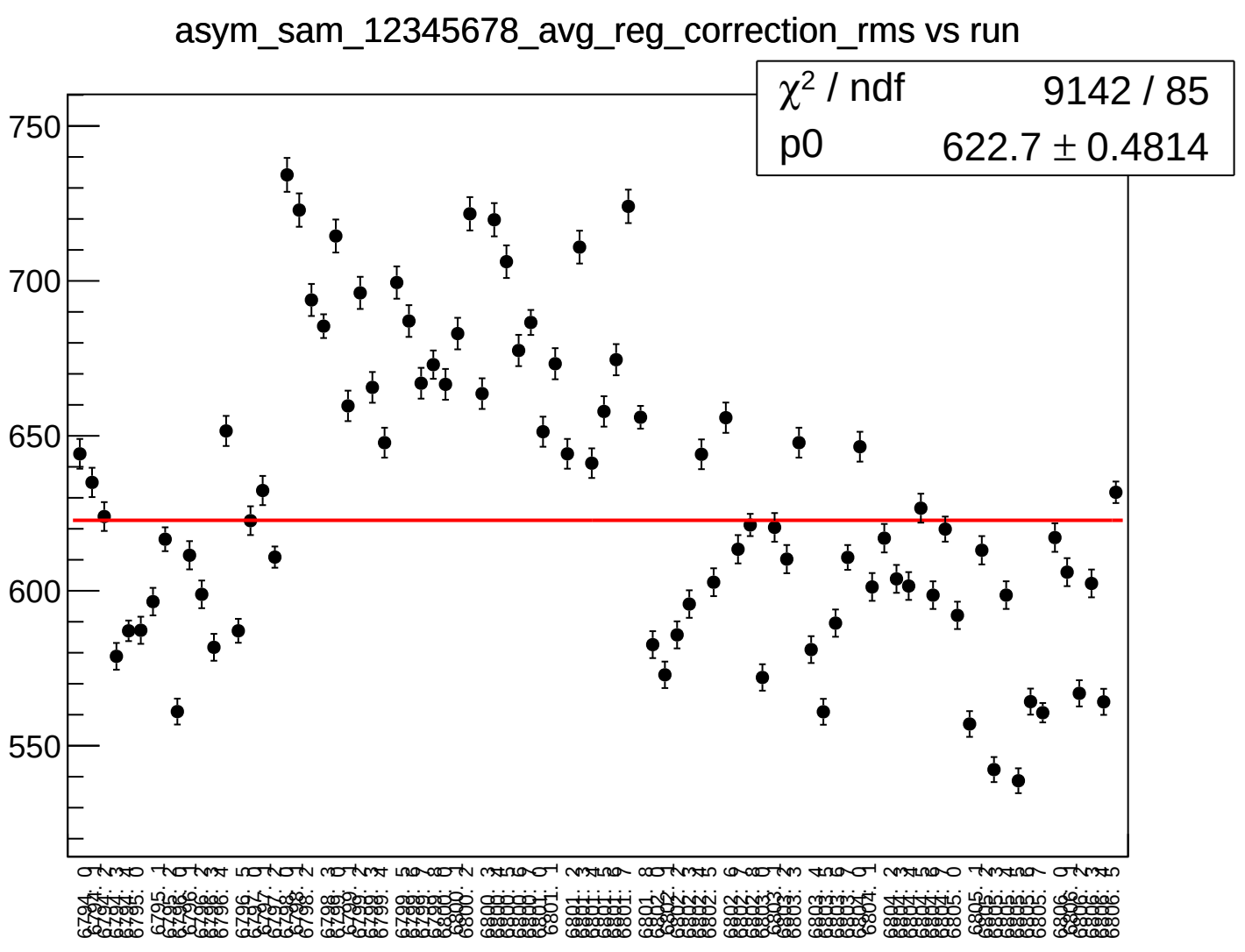

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 73.31 / 85
p0 −163.3 ± 74.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −3364
Std Dev 0
2
1
0
−1
−2

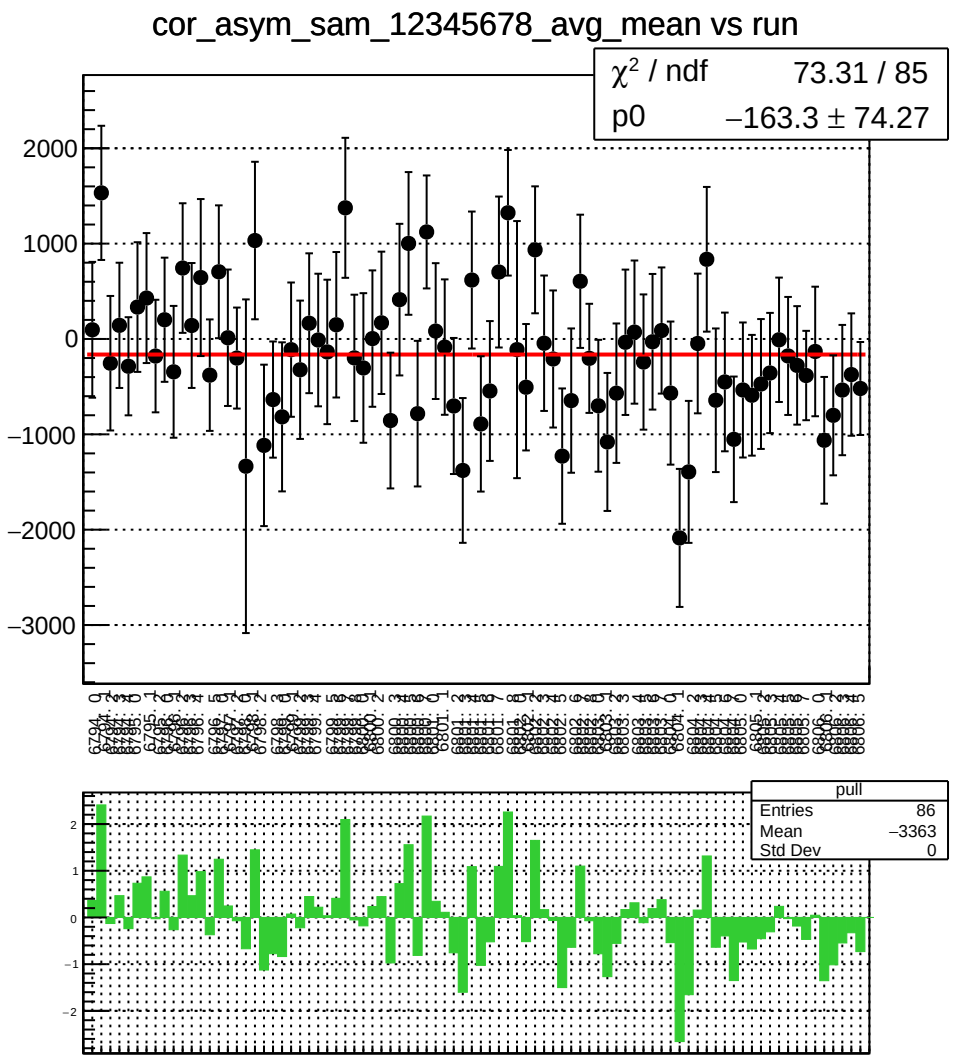

pull1D
Entries 86
Mean 0.002425
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

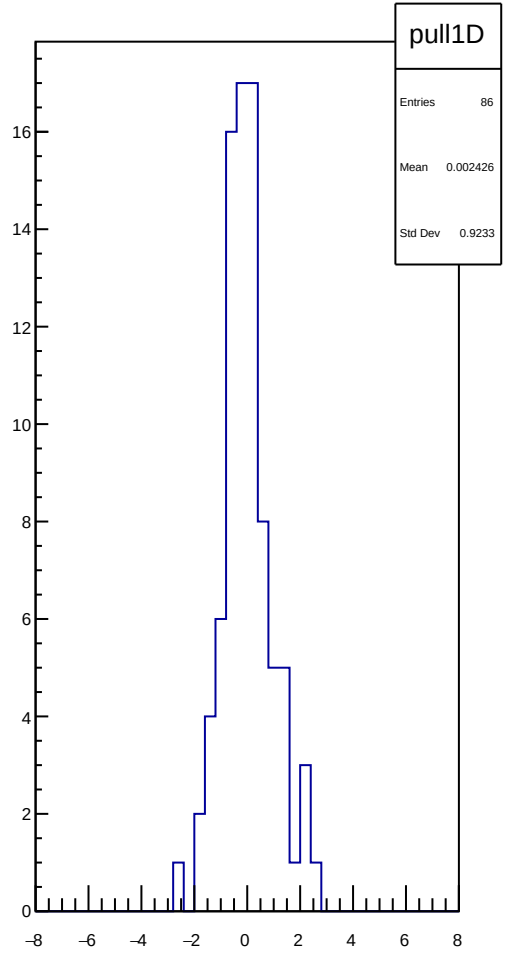

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.895e+04 / 85
p0 67.73 ± 0.05252
160
140
120
100
80
60

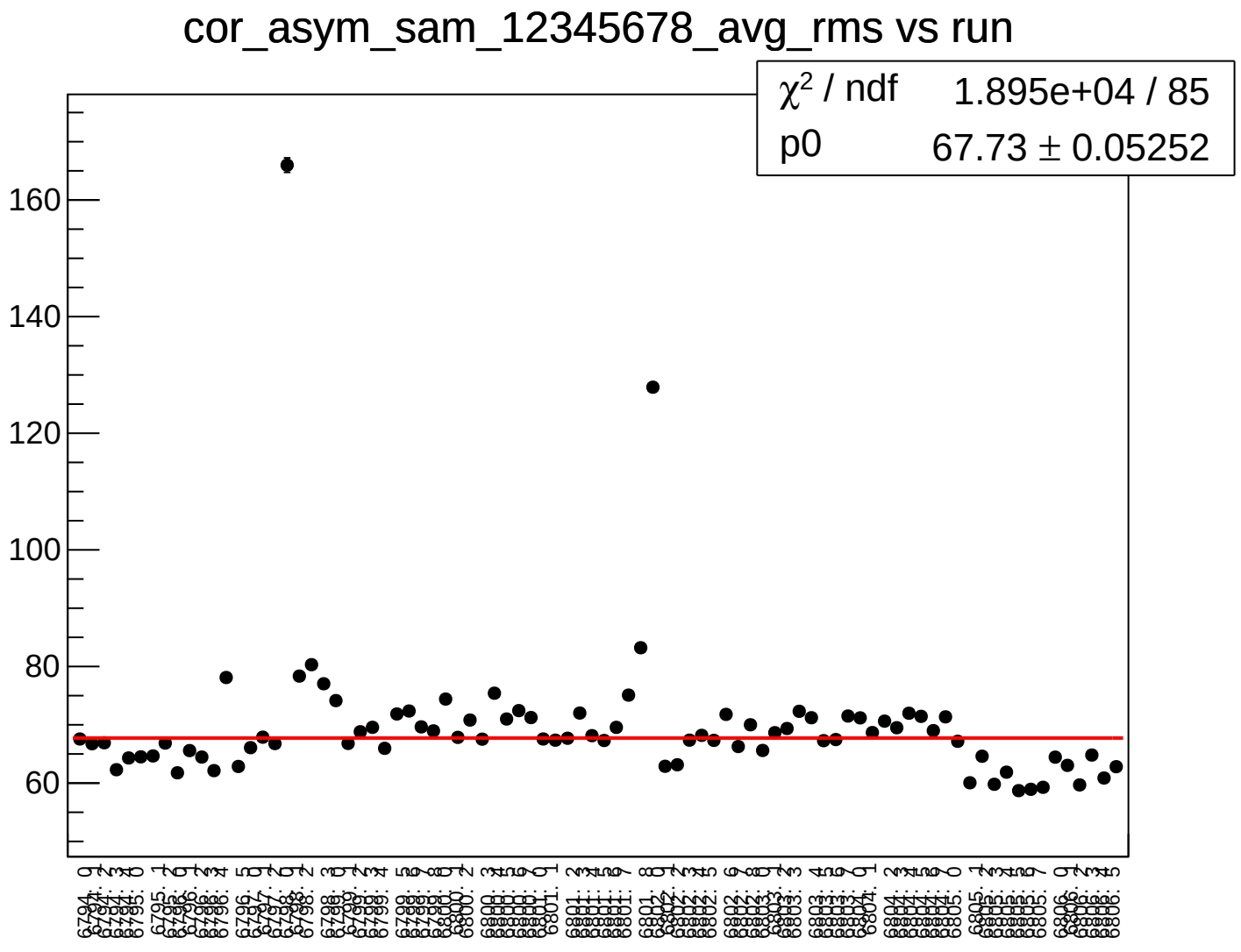

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 88.14 / 85
p0 −557.1± 680.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −49.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

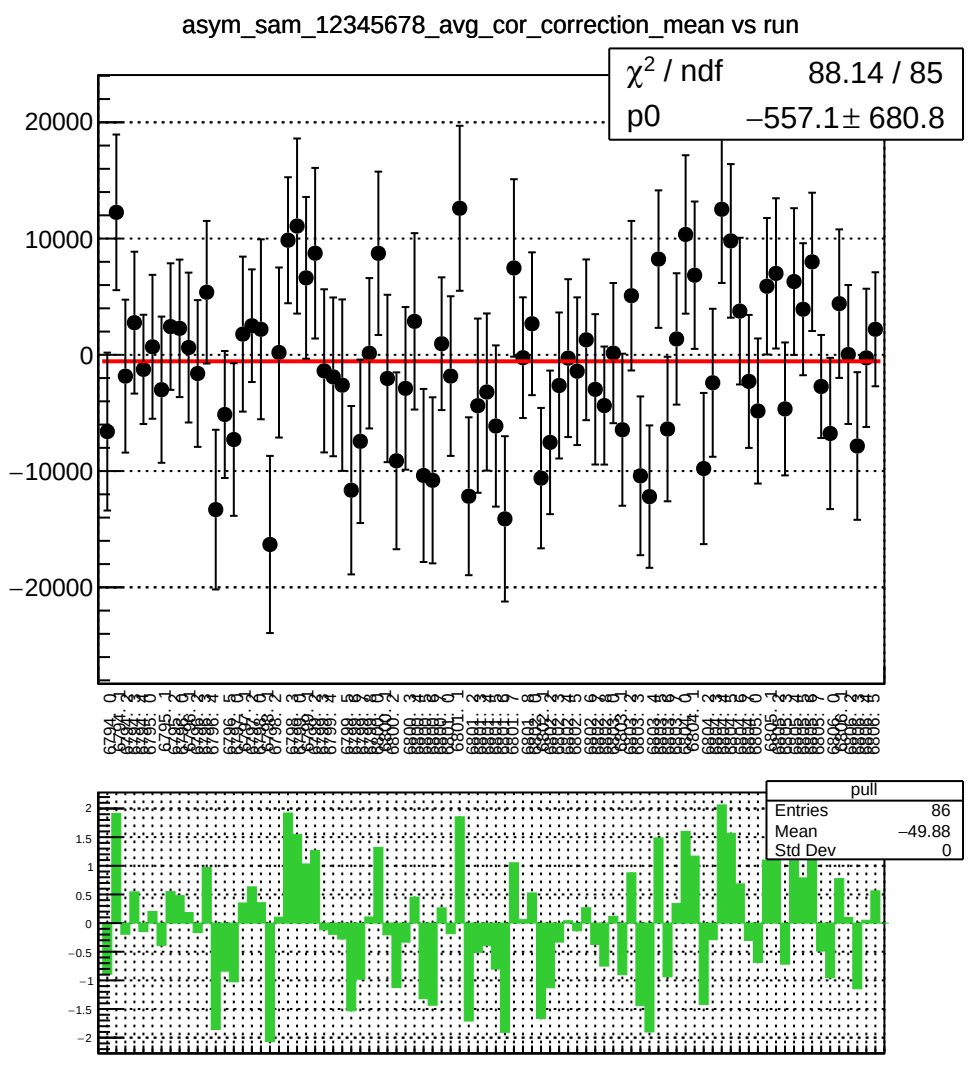

pull1D
Entries 86
Mean −0.01378
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

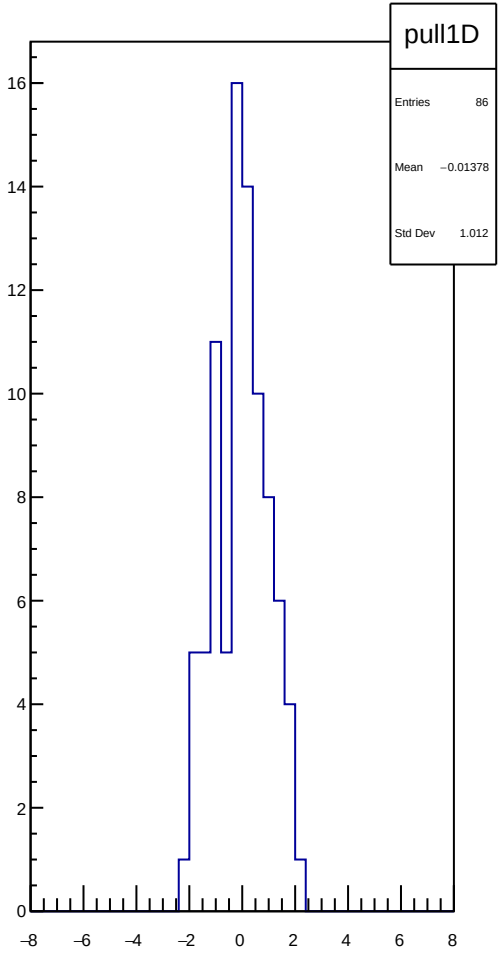

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 9142 / 85
p0 622.7 ± 0.4814
750
700
650
600
550

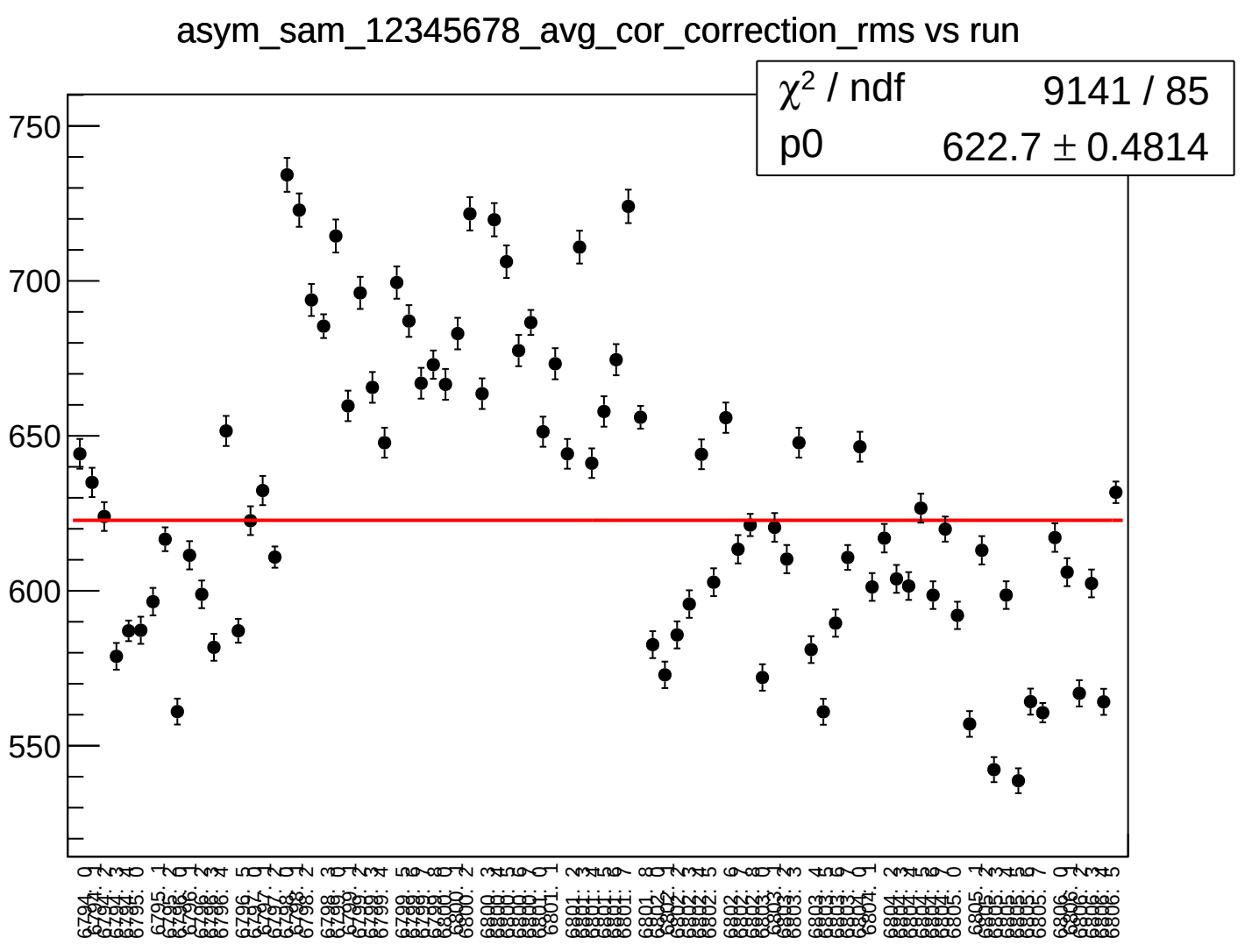

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 73.31 / 85
p0 −163.3 ± 74.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −3363
Std Dev 0
2
1
0
−1
−2

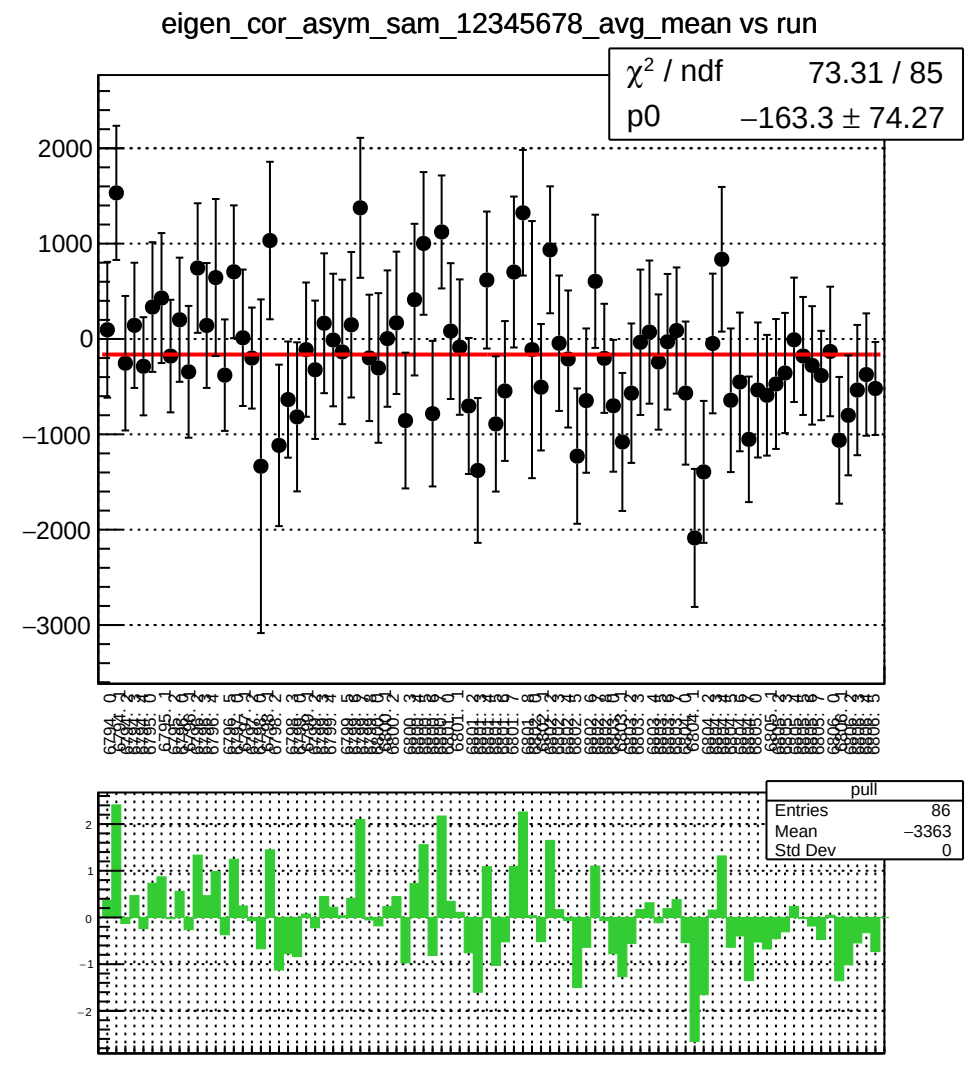

pull1D
Entries 86
Mean 0.002426
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

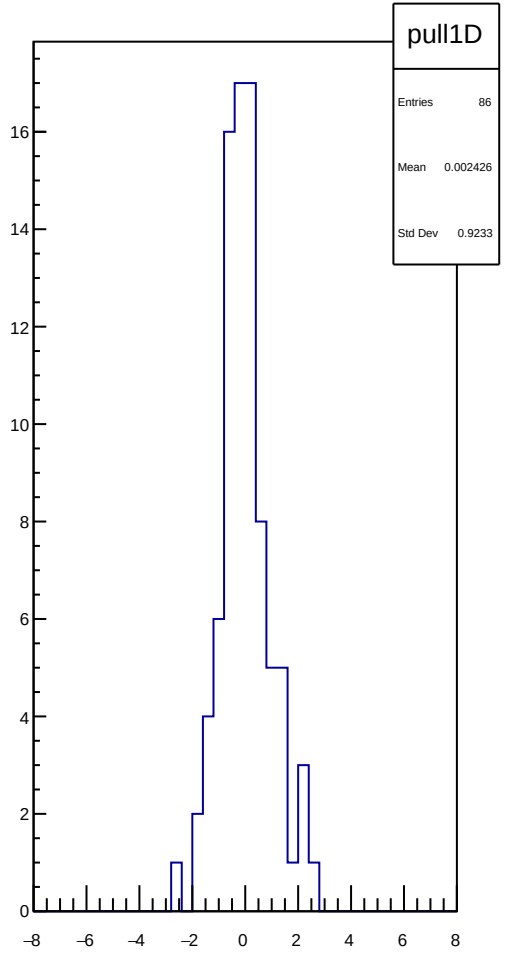

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.895e+04 / 85
p0 67.73 ± 0.05252
160
140
120
100
80
60


asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 88.14 / 85
p0 −557.1± 680.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −49.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 86
Mean −0.01378
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 9141 / 85
p0 622.7 ± 0.4814
750
700
650
600
550


eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 73.31 / 85
p0 −163.3 ± 74.27
2000
1000
0
−1000
−2000
−3000
pull
Entries 86
Mean −3363
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 86
Mean 0.002426
Std Dev 0.9233
16
14
12
10
8
6
4
2
0
−8
−6
−4
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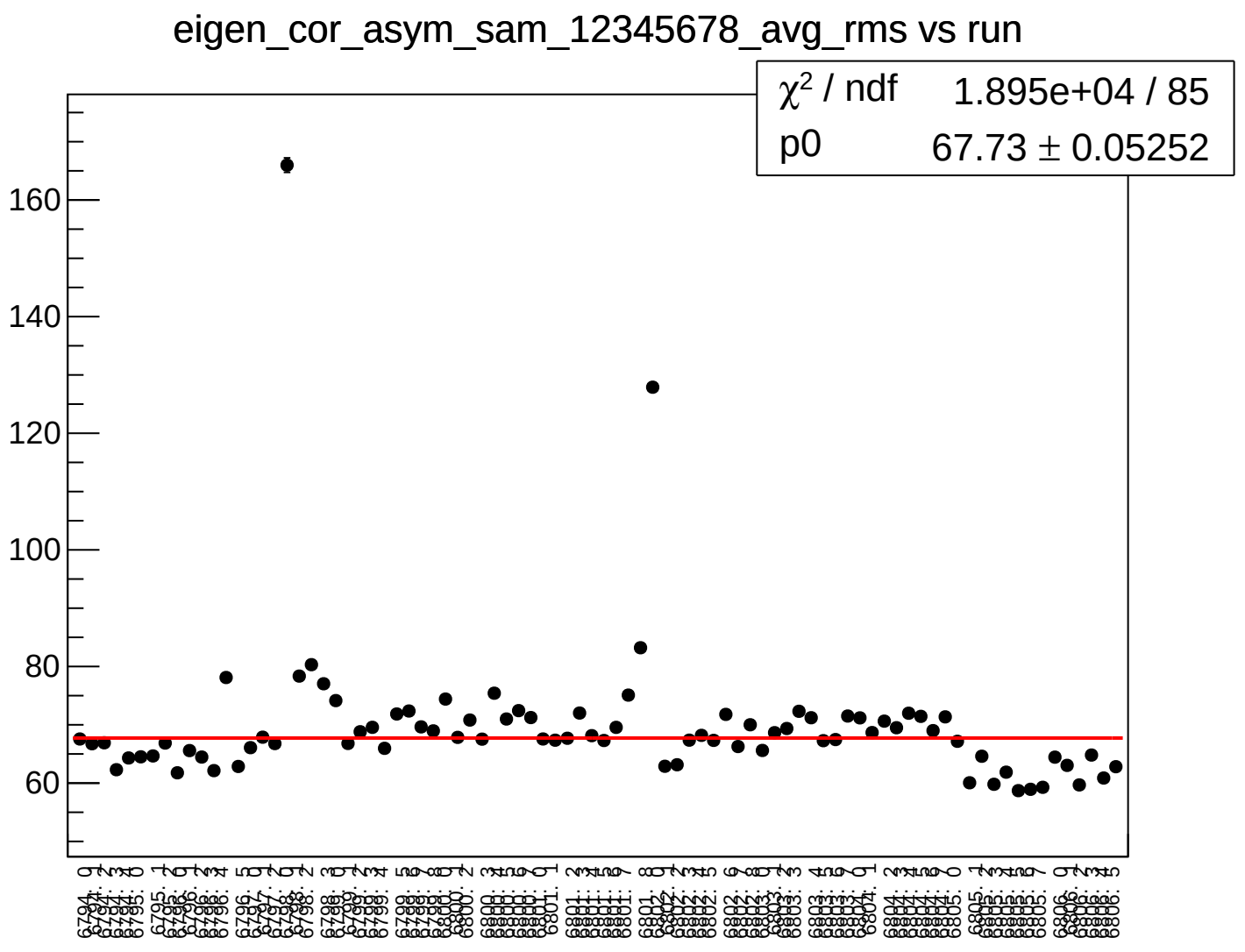
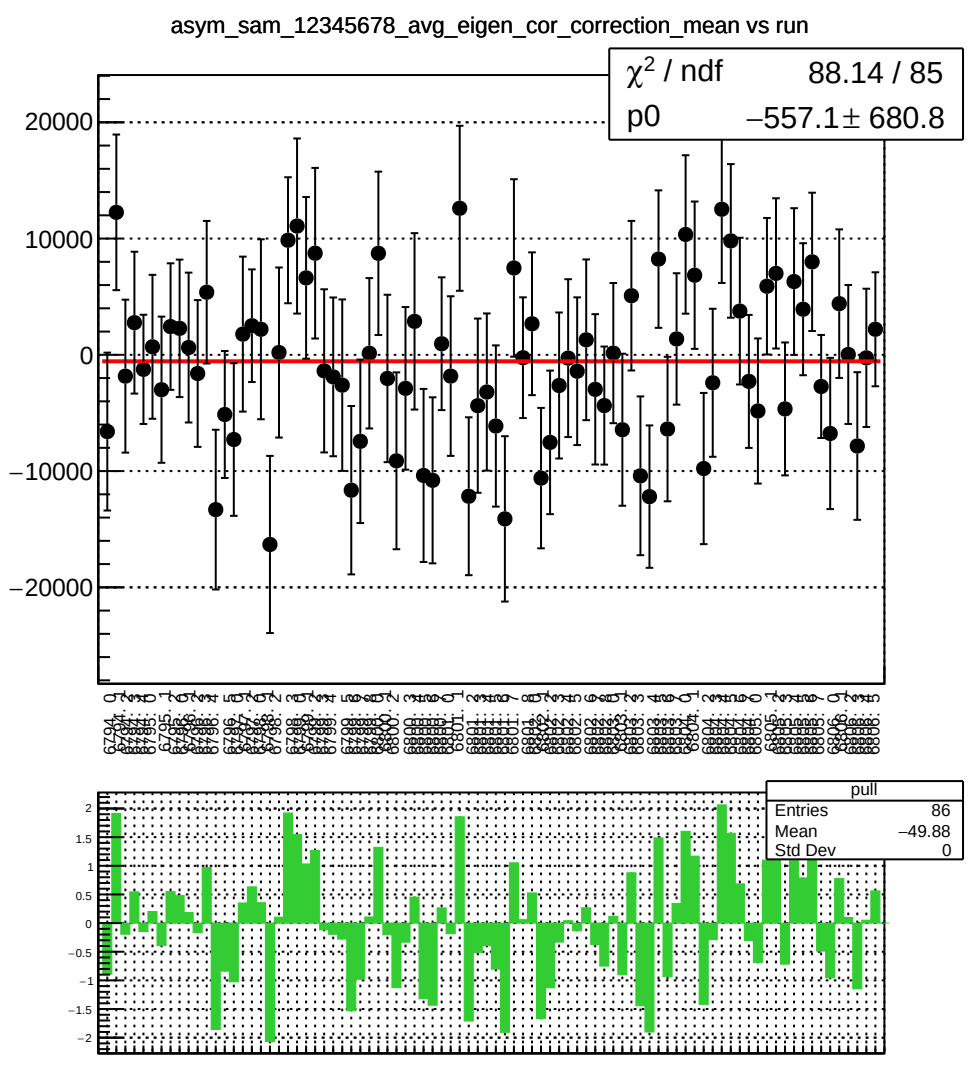
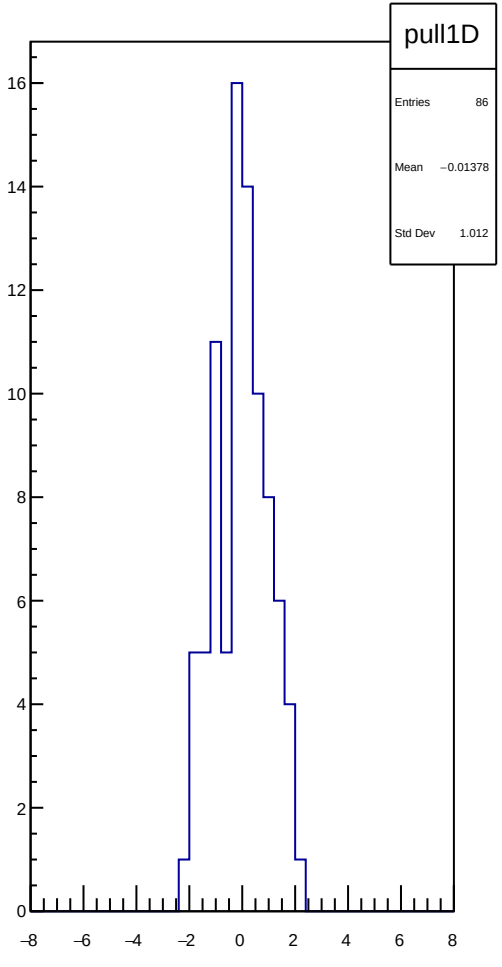
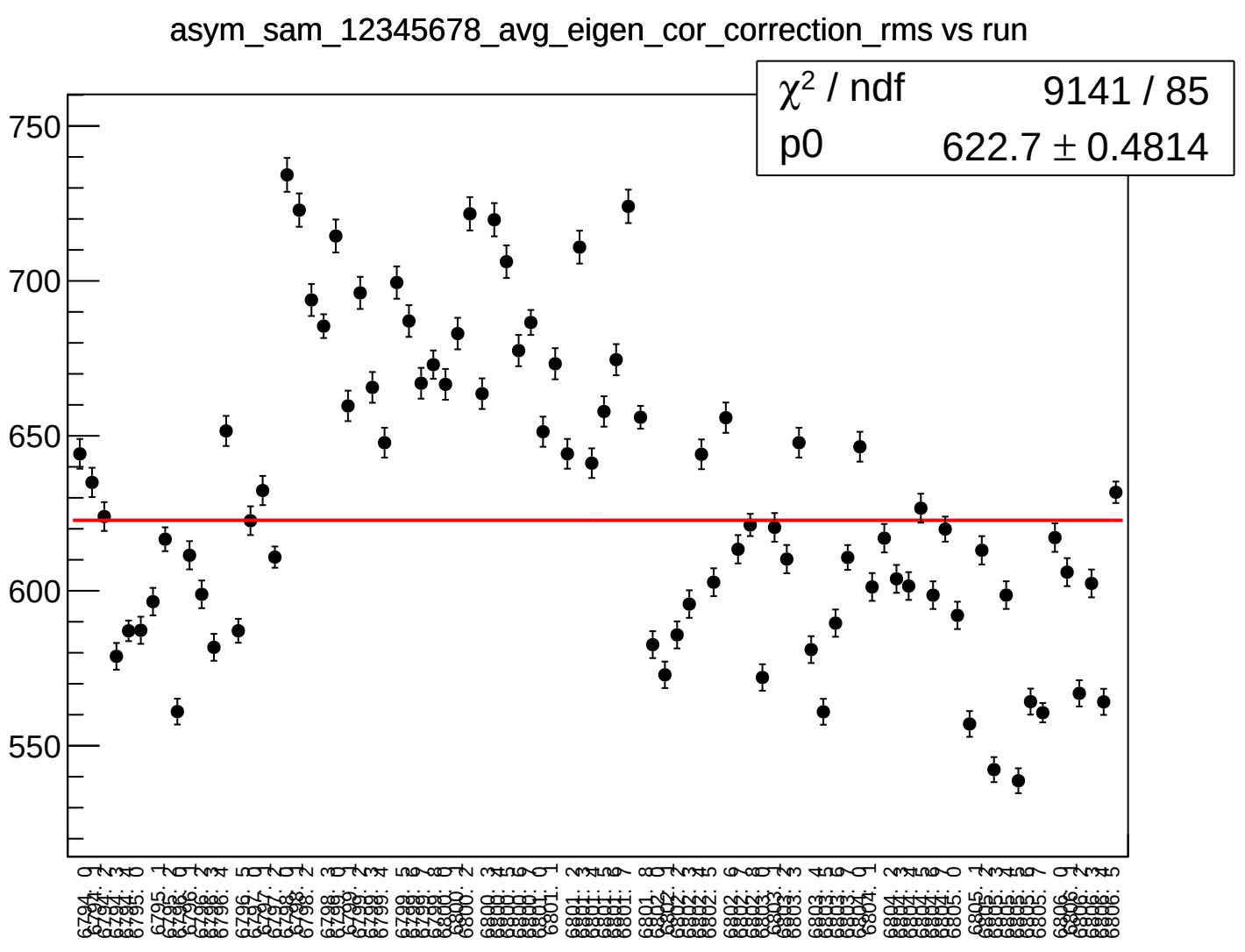
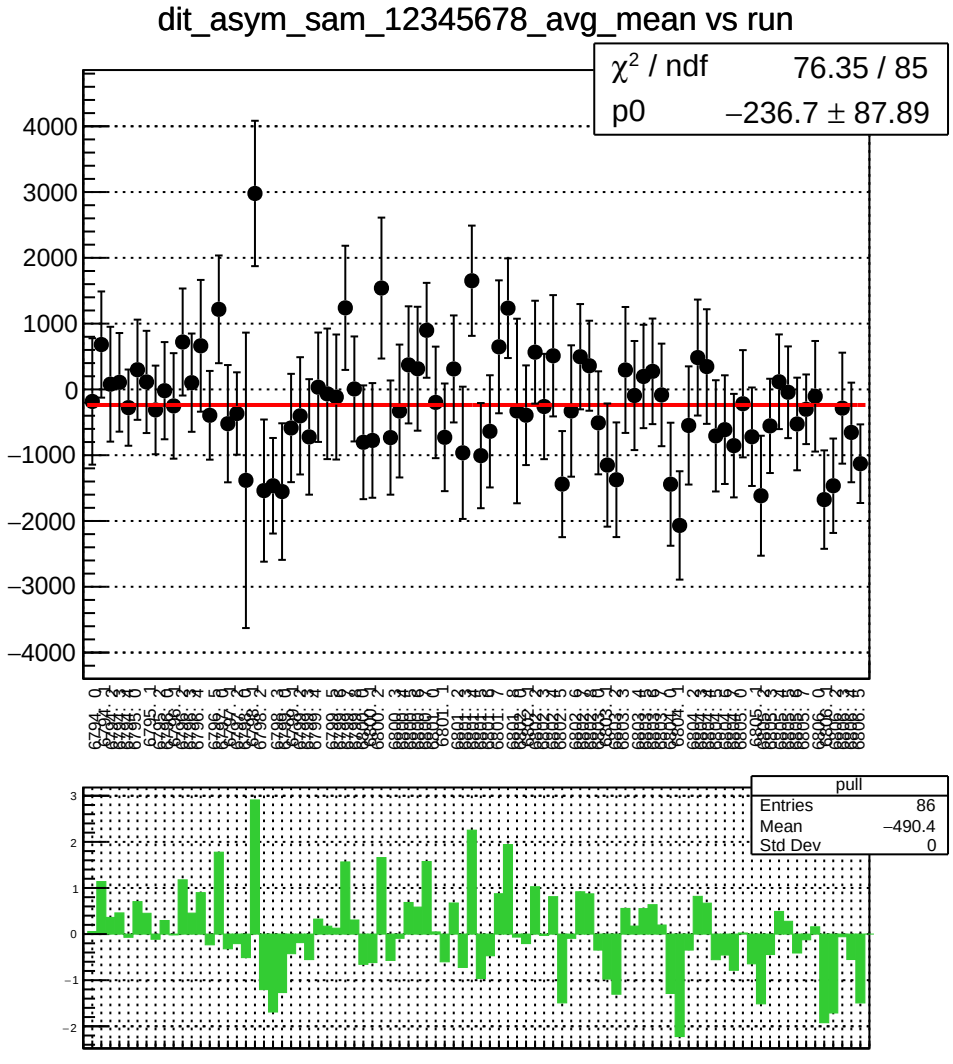
2
4
6
8

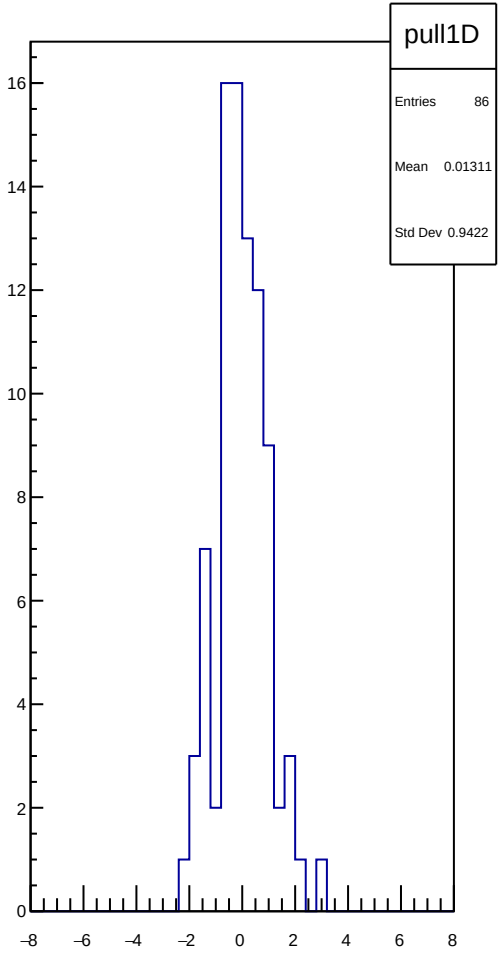

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 1.895e+04 / 85
p0 67.73 ± 0.05252
160
140
120
100
80
60

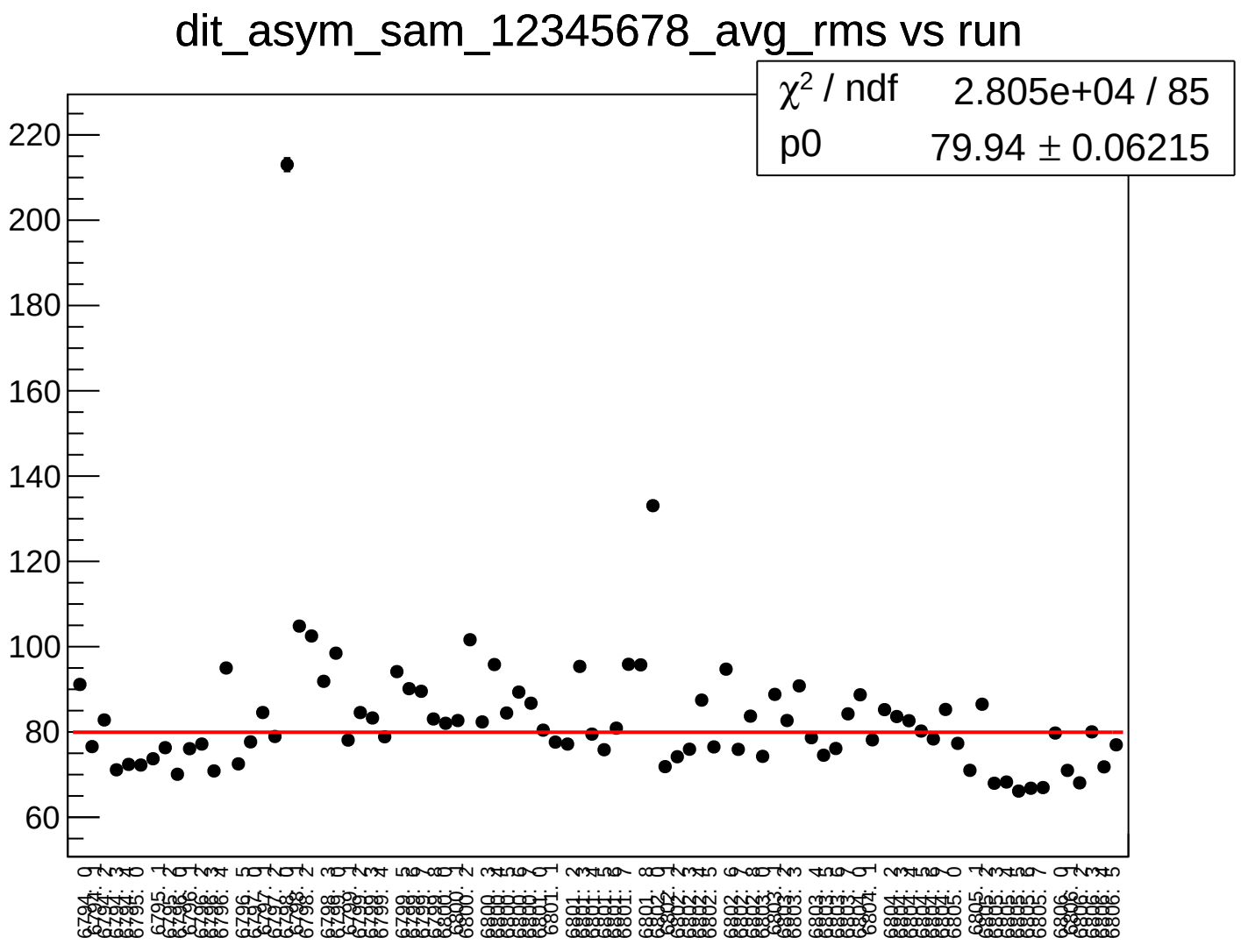

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 88.14 / 85
p0 −557.1± 680.8
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −49.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

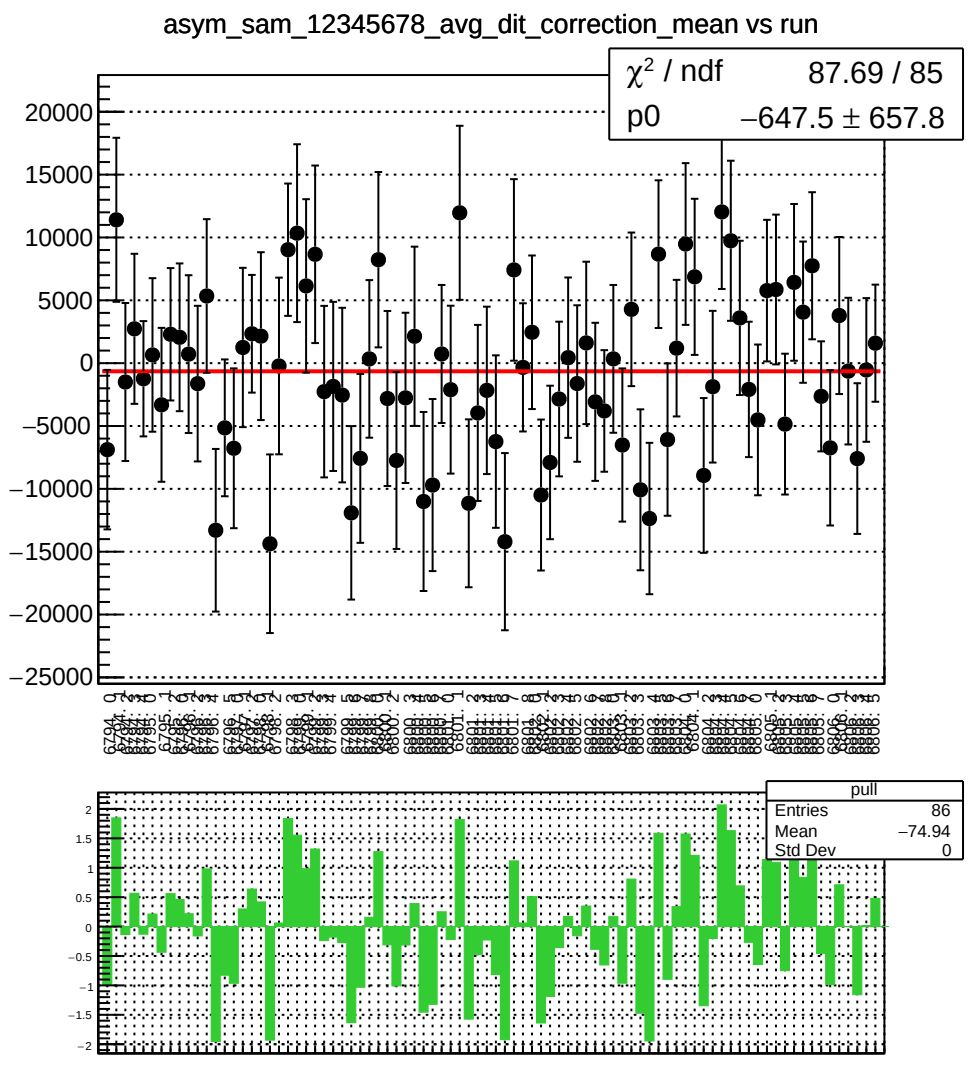

pull1D
Entries 86
Mean −0.01378
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

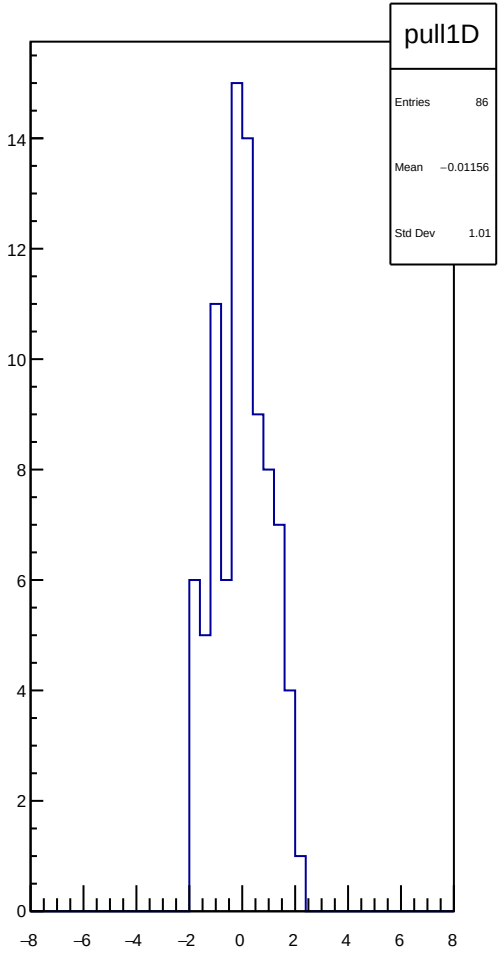

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 9141 / 85
p0 622.7 ± 0.4814
750
700
650
600
550

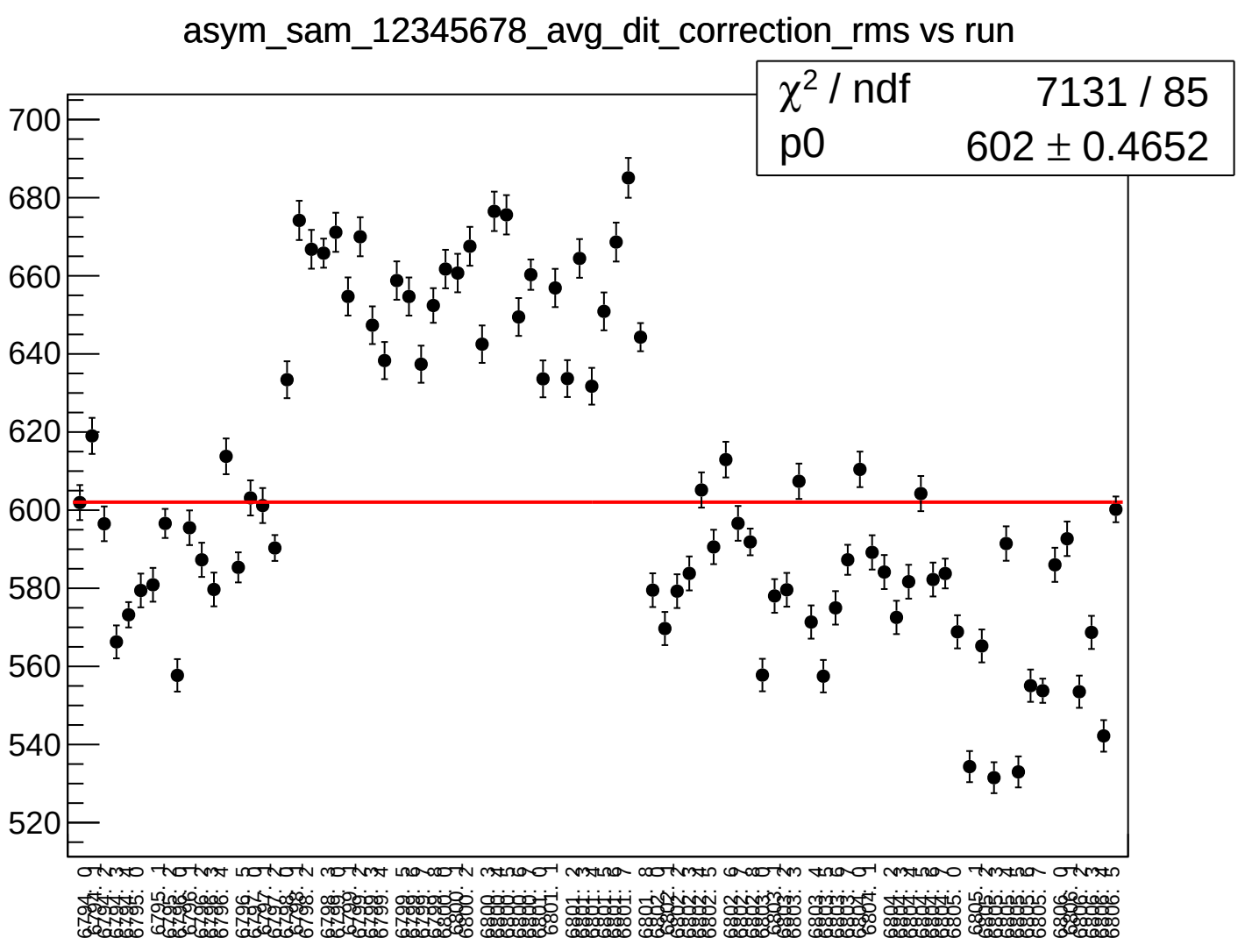

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 76.35 / 85
p0 −236.7 ± 87.89
pull
Entries 86
Mean −490.4
Std Dev 0

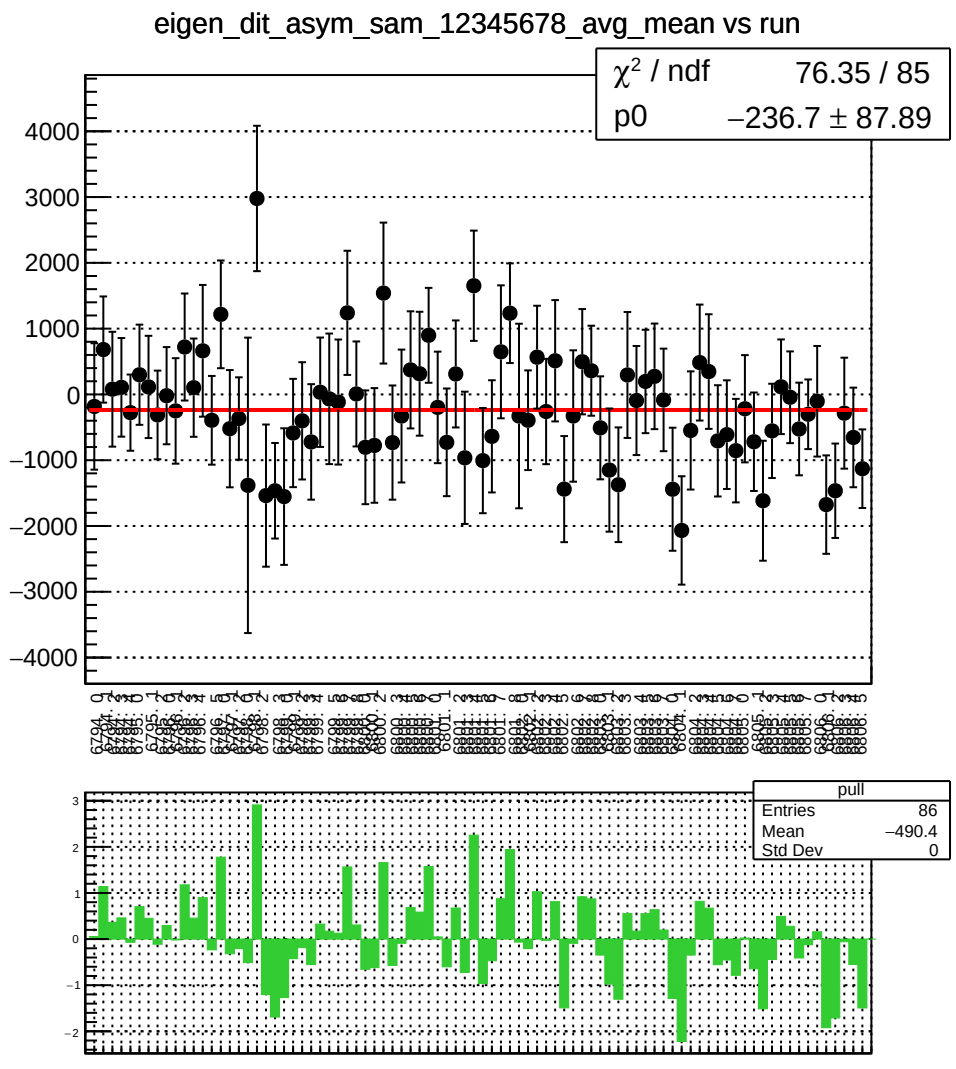

pull1D
Entries 86
Mean 0.01311
Std Dev 0.9422

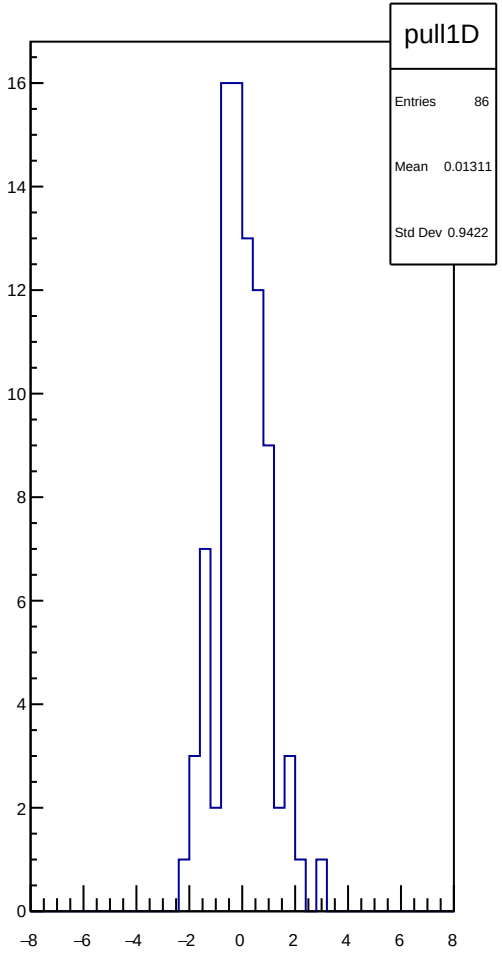

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.805e+04 / 85
p0 79.94 ± 0.06215
220
200
180
160
140
120
100
80
60

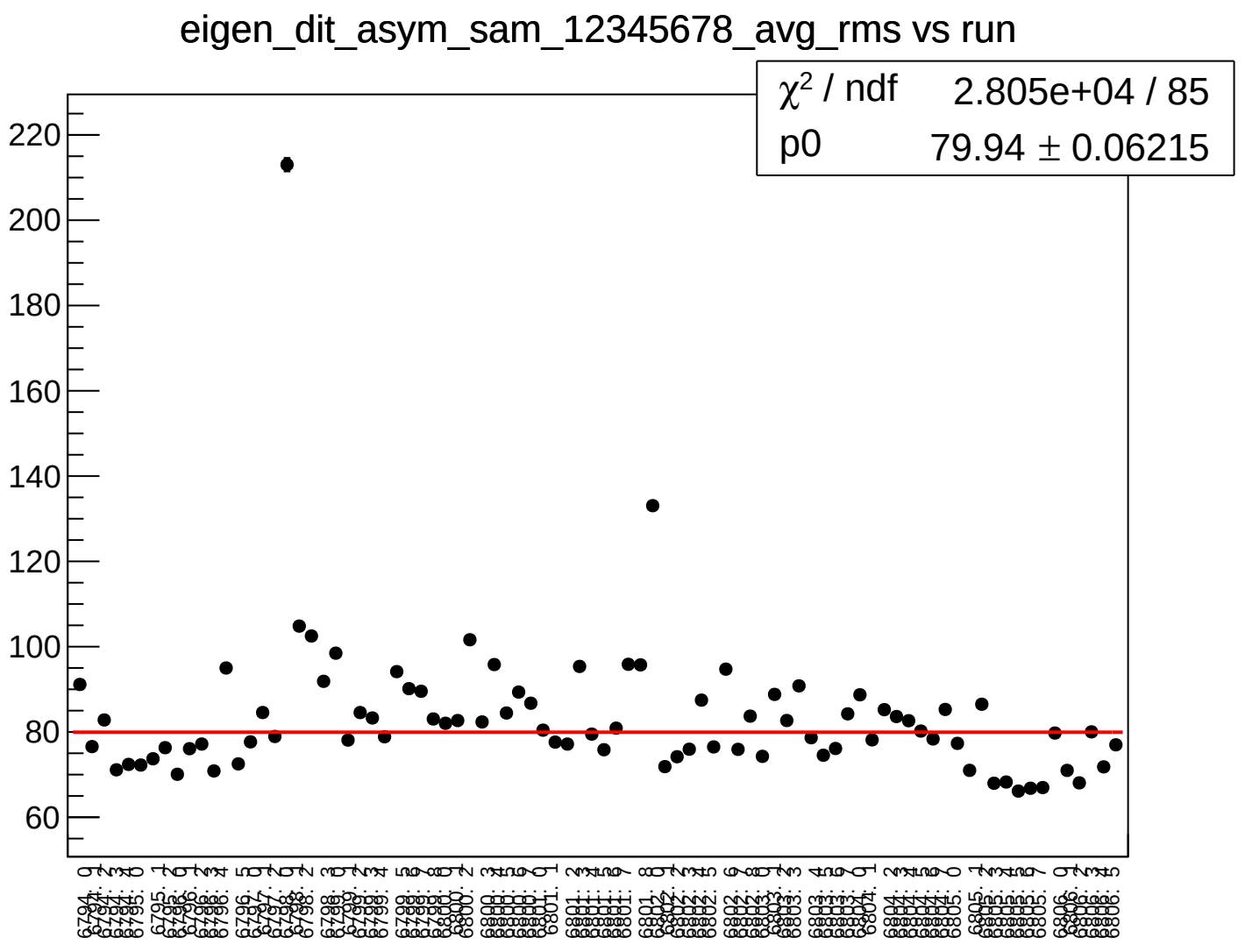

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 87.69 / 85
p0 −647.5 ± 657.8
pull
Entries 86
Mean −74.94
Std Dev 0

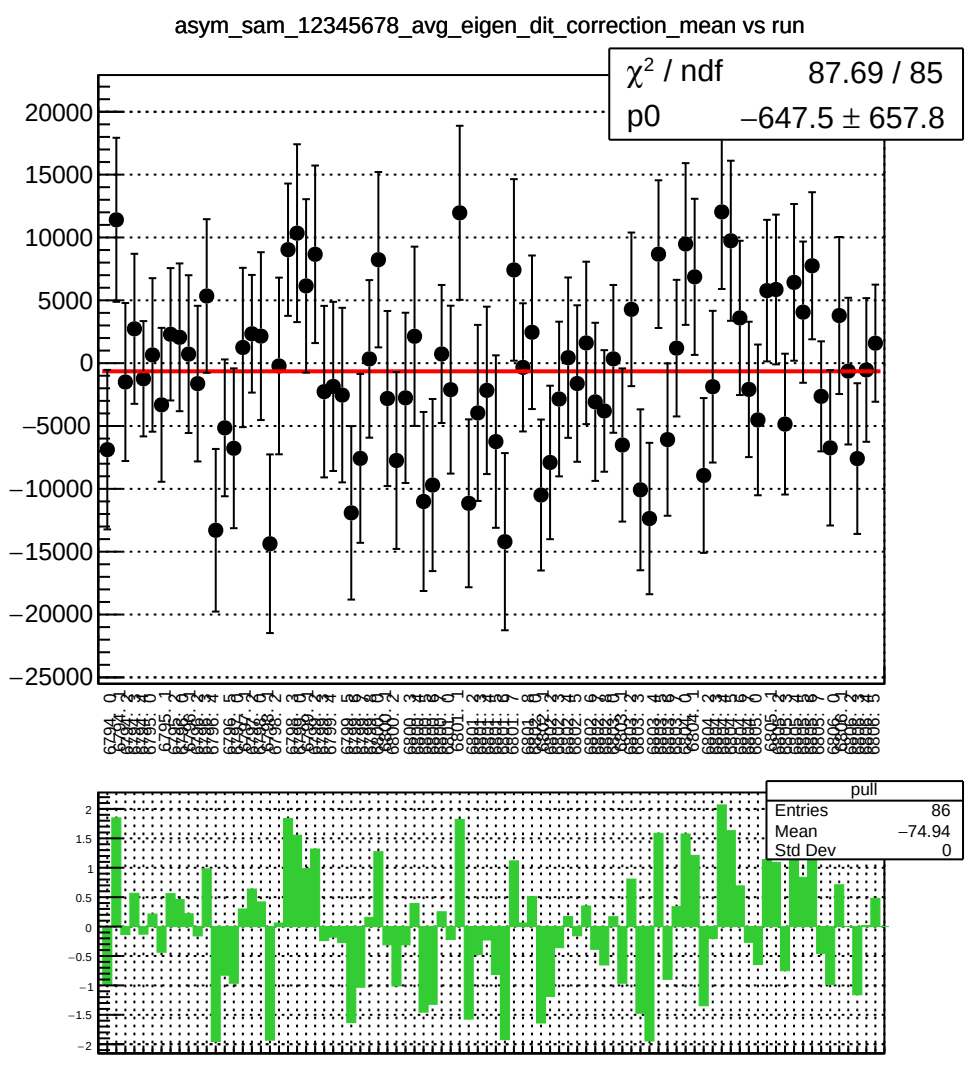

pull1D
Entries 86
Mean −0.01156
Std Dev 1.01

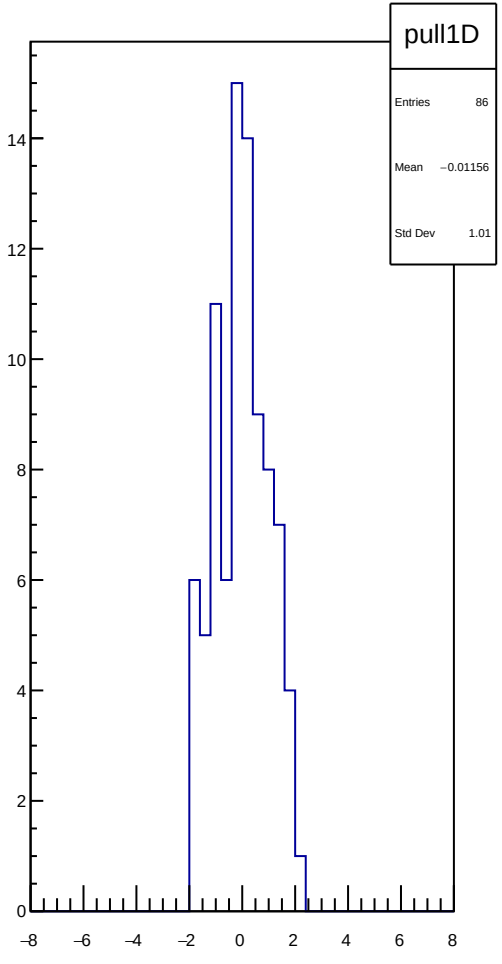

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 7131 / 85
p0 602 ± 0.4652
700
680
660
640
620
600
580
560
540
520

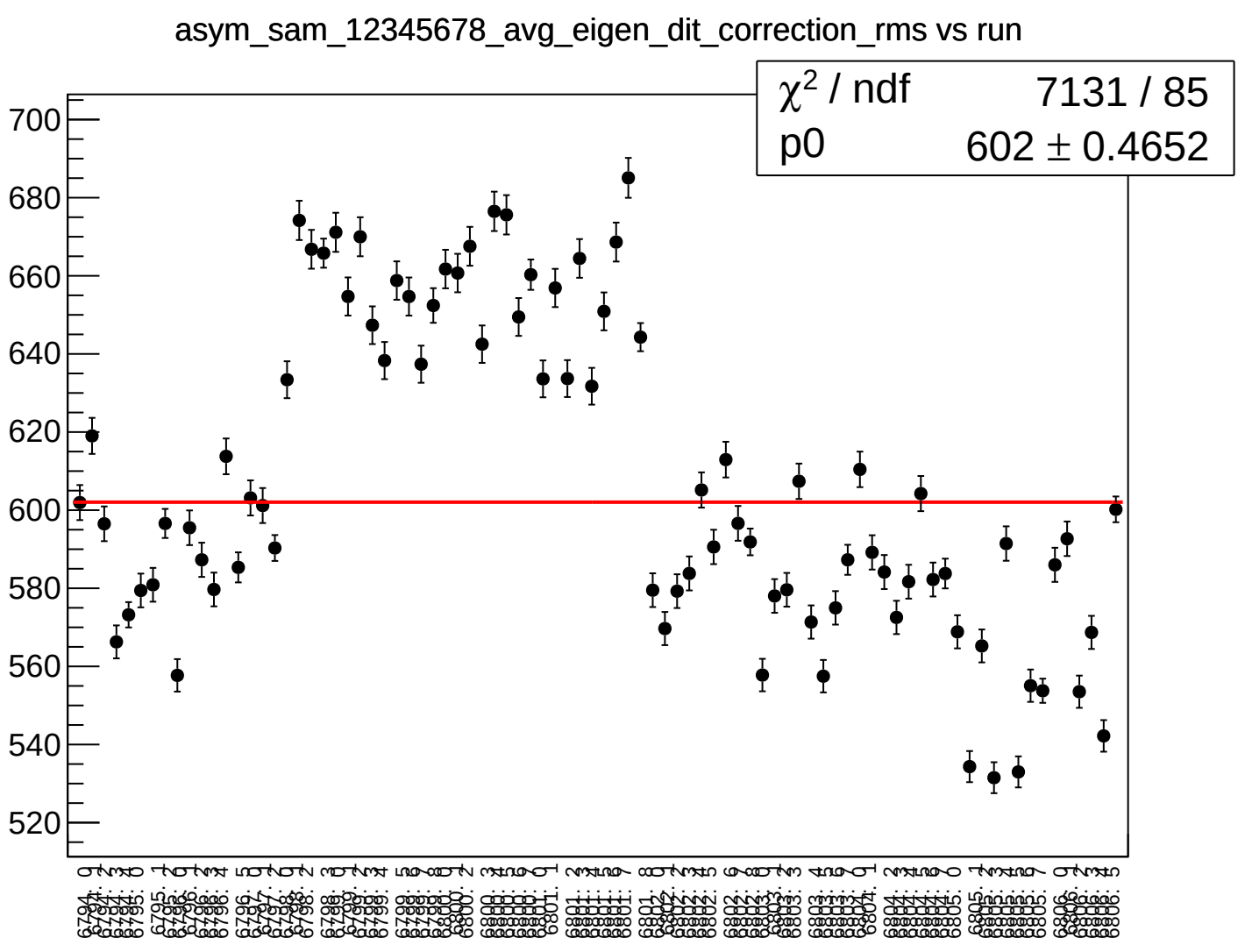

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 76.35 / 85
p0 −236.7 ± 87.89
pull
Entries 86
Mean −490.4
Std Dev 0

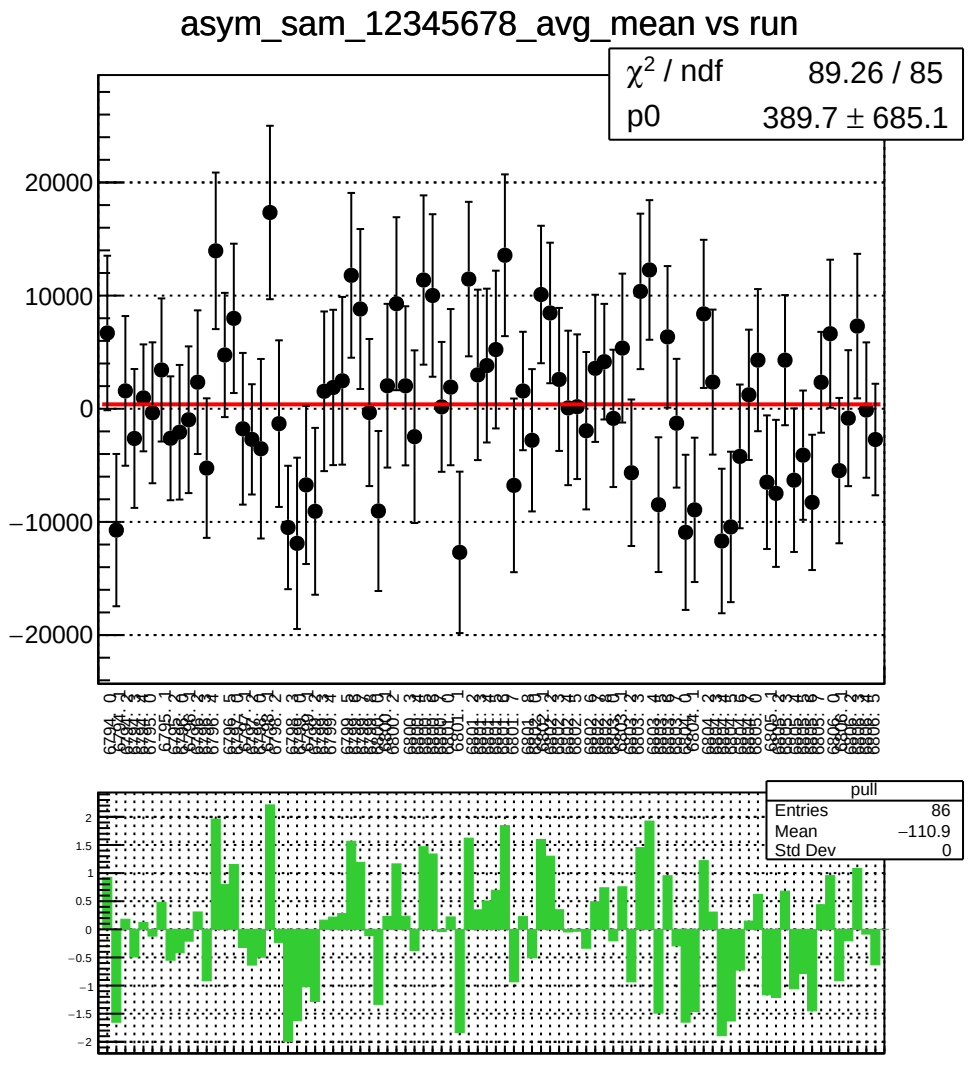

pull1D
Entries 86
Mean 0.01311
Std Dev 0.9422

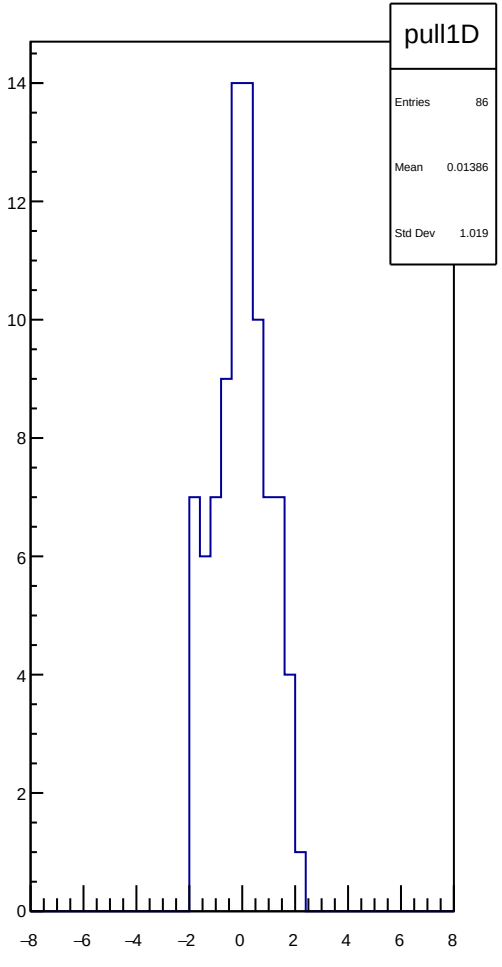

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 2.805e+04 / 85
p0 79.94 ± 0.06215
220
200
180
160
140
120
100
80
60

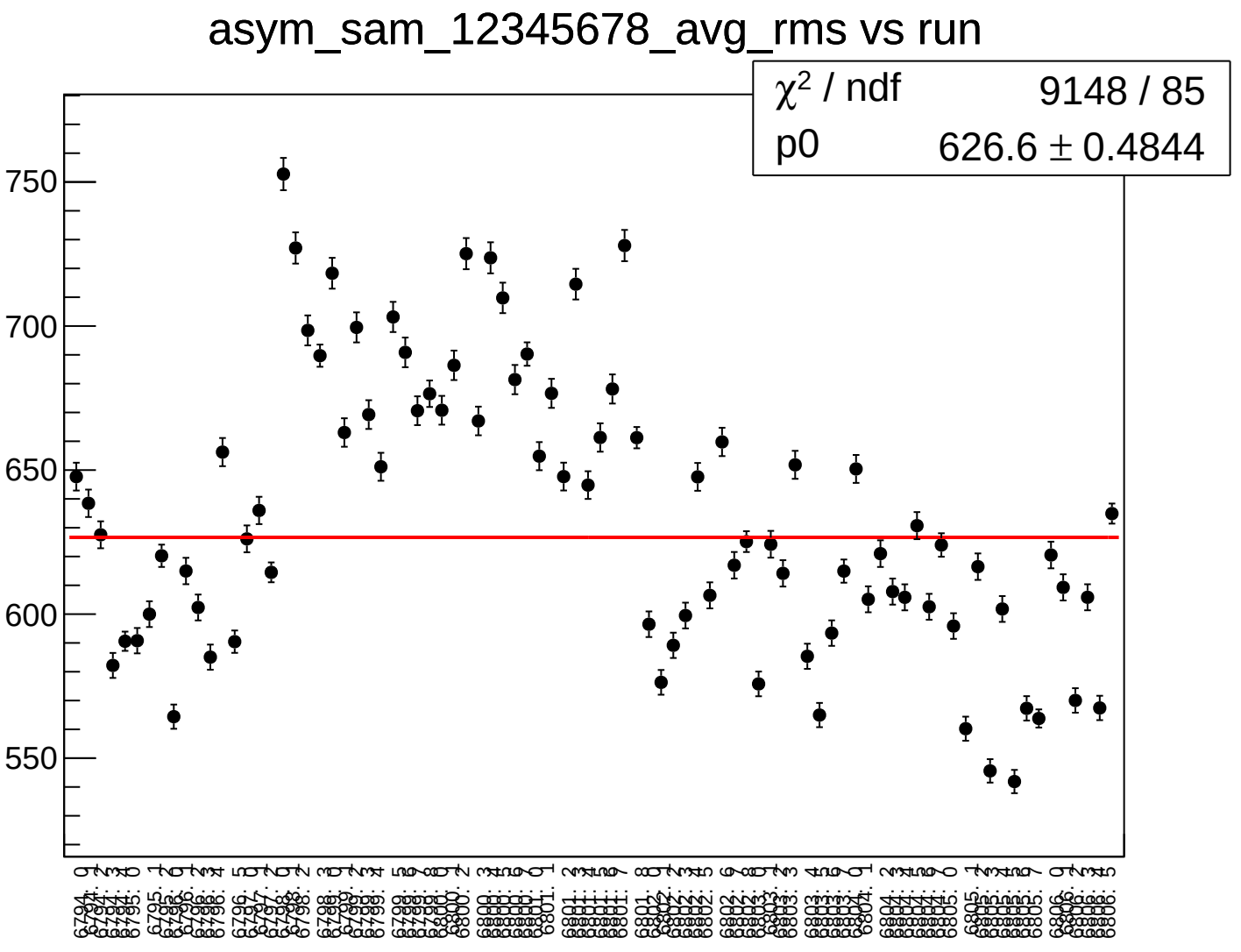

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 87.69 / 85
p0 −647.5 ± 657.8
pull
Entries 86
Mean −74.94
Std Dev 0

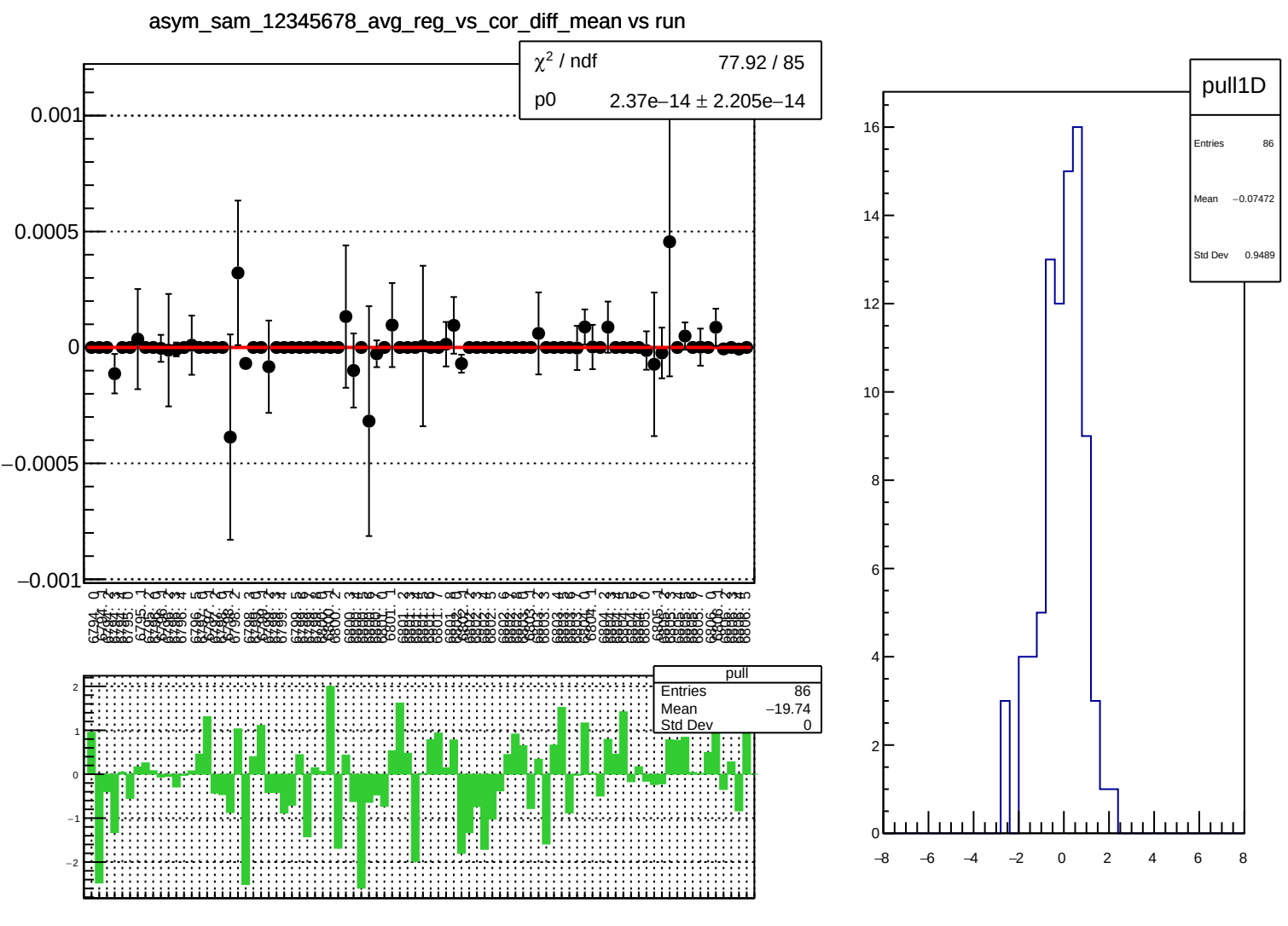

pull1D
Entries 86
Mean −0.01156
Std Dev 1.01

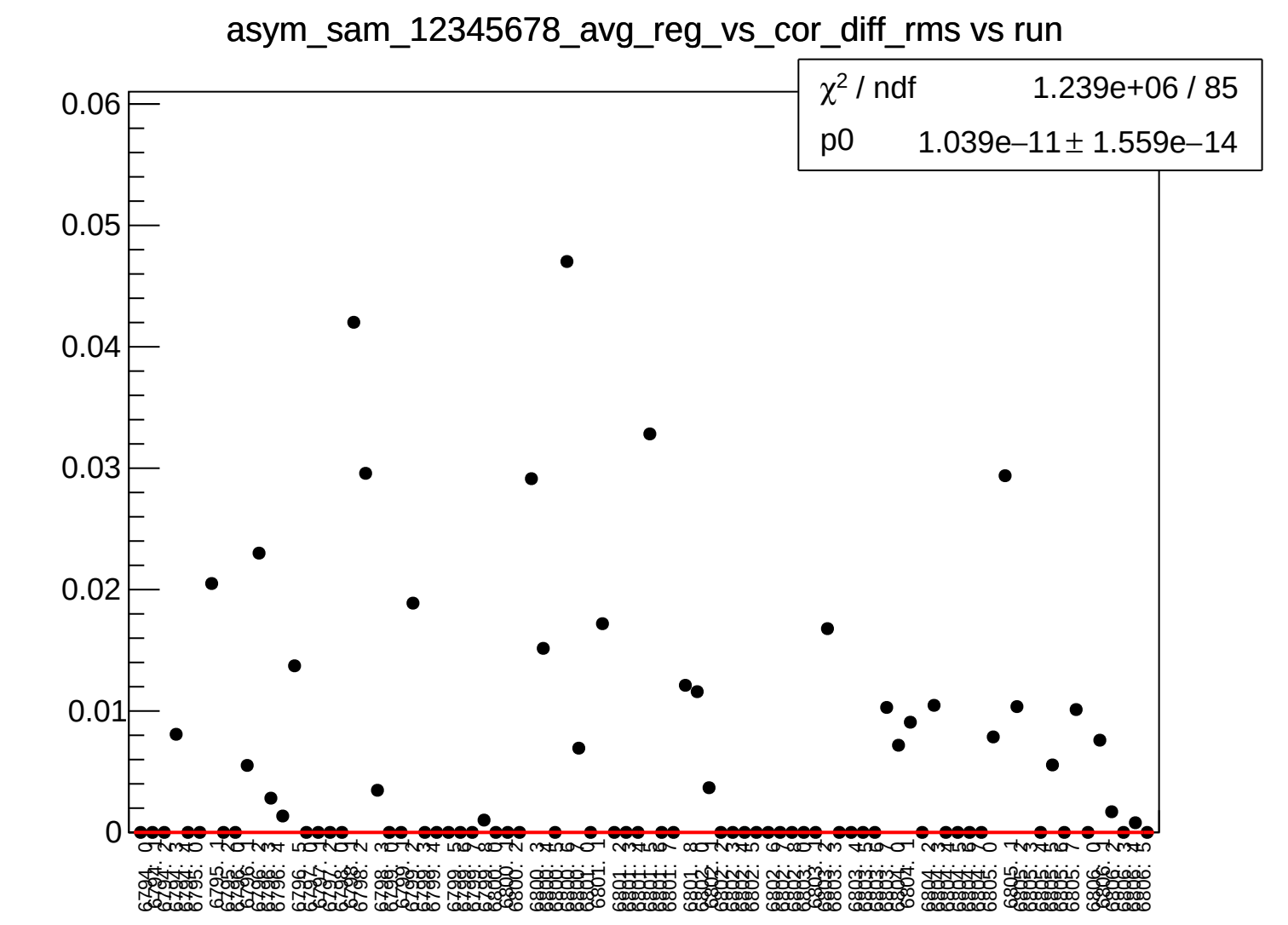

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 7131 / 85
p0 602 ± 0.4652
700
680
660
640
620
600
580
560
540
520

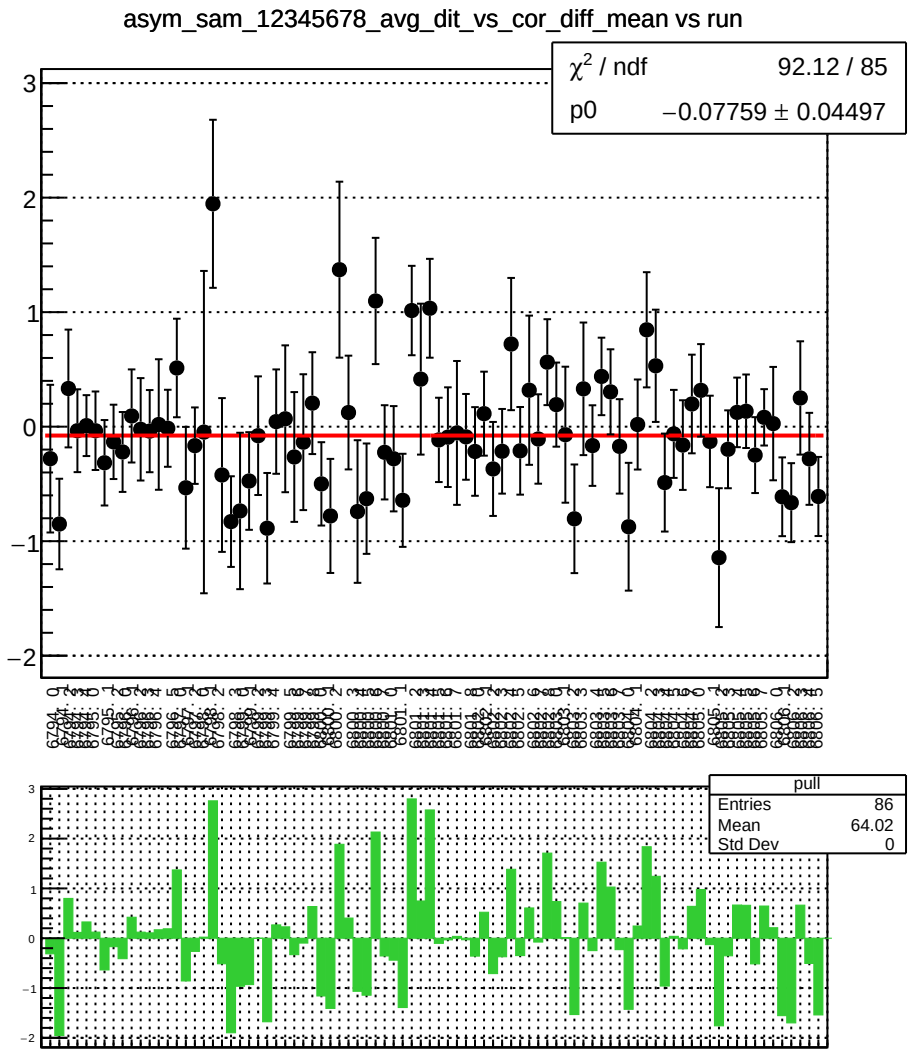

asym_sam_12345678_avg_mean vs run
χ² / ndf 89.26 / 85
p0 389.7 ± 685.1
20000
10000
0
−10000
−20000
pull
Entries 86
Mean −110.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

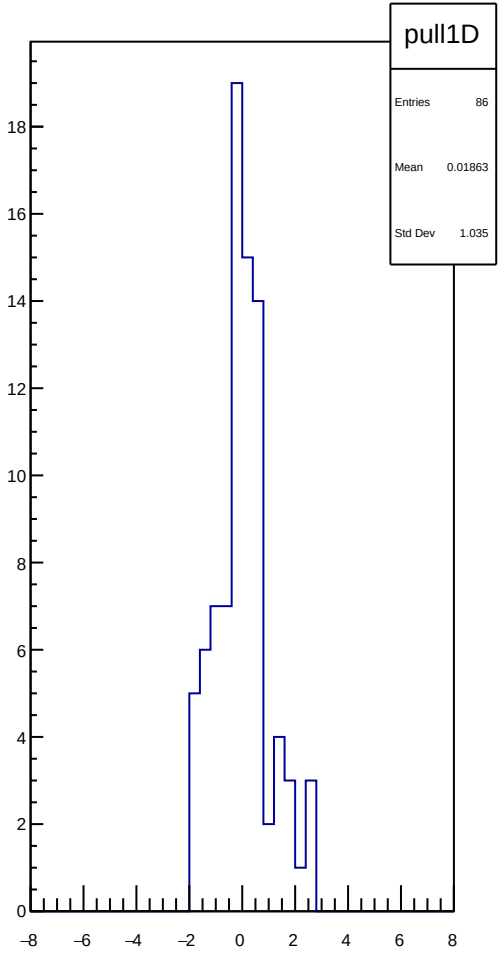

pull1D
Entries 86
Mean 0.01386
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

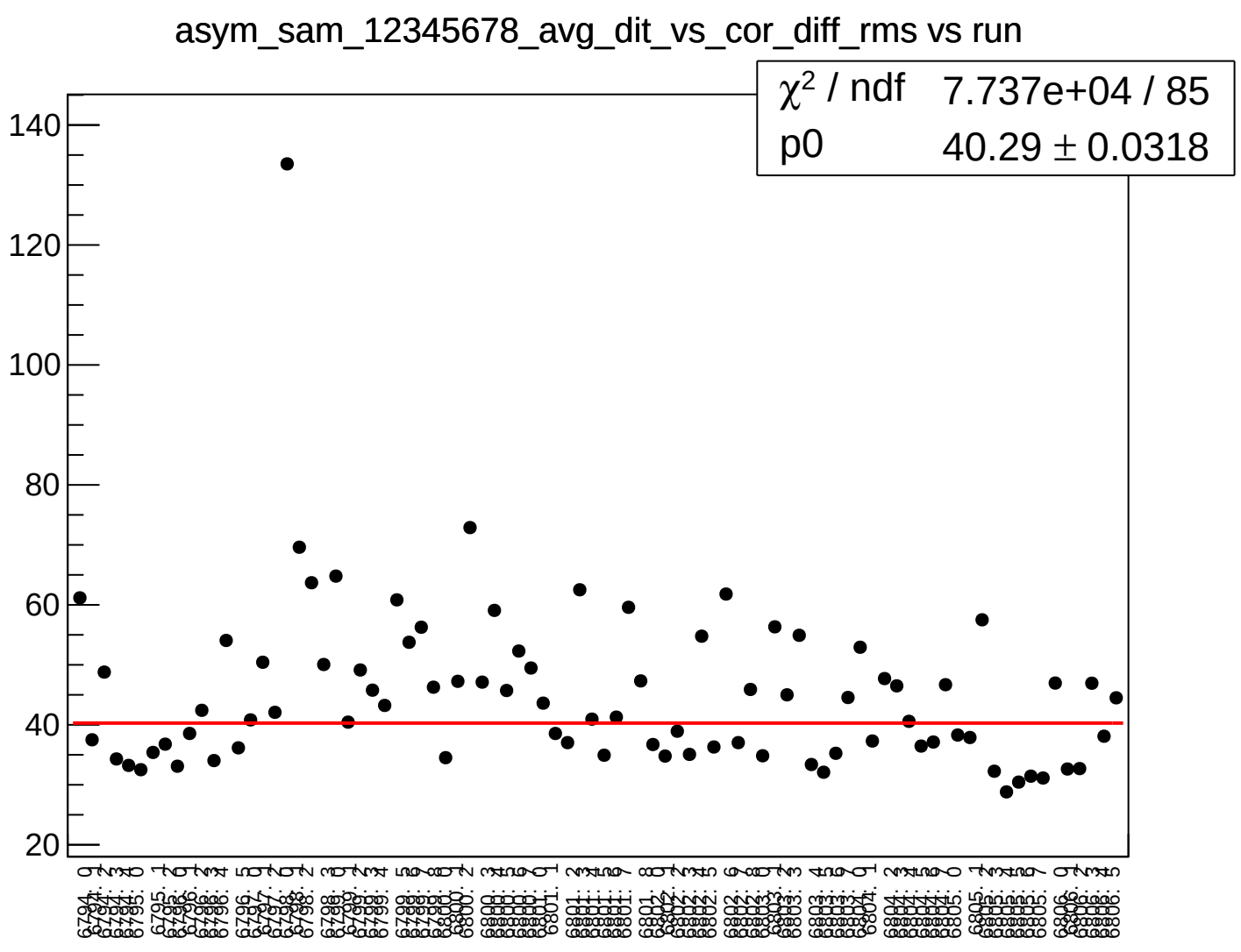

asym_sam_12345678_avg_rms vs run
χ² / ndf 9148 / 85
p0 626.6 ± 0.4844
750
700
650
600
550

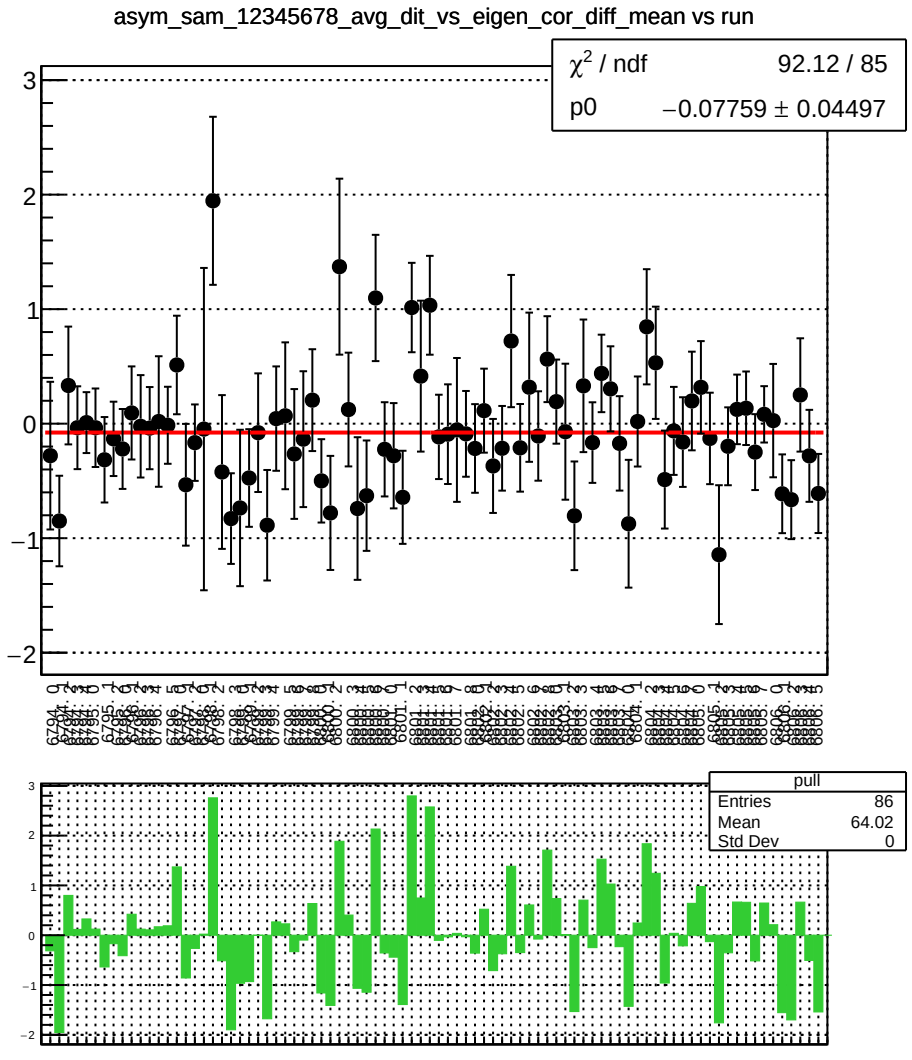

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.92 / 85
p0 2.37e−14 ± 2.205e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 86
Mean −19.74
Std Dev 0
pull1D
Entries 86
Mean −0.07472
Std Dev 0.9489

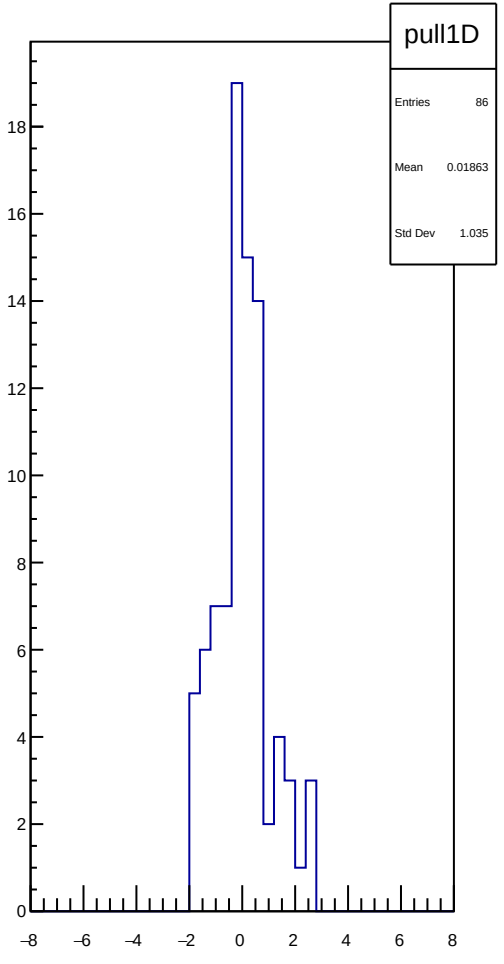

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.239e+06 / 85
p0 1.039e−11 ± 1.559e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

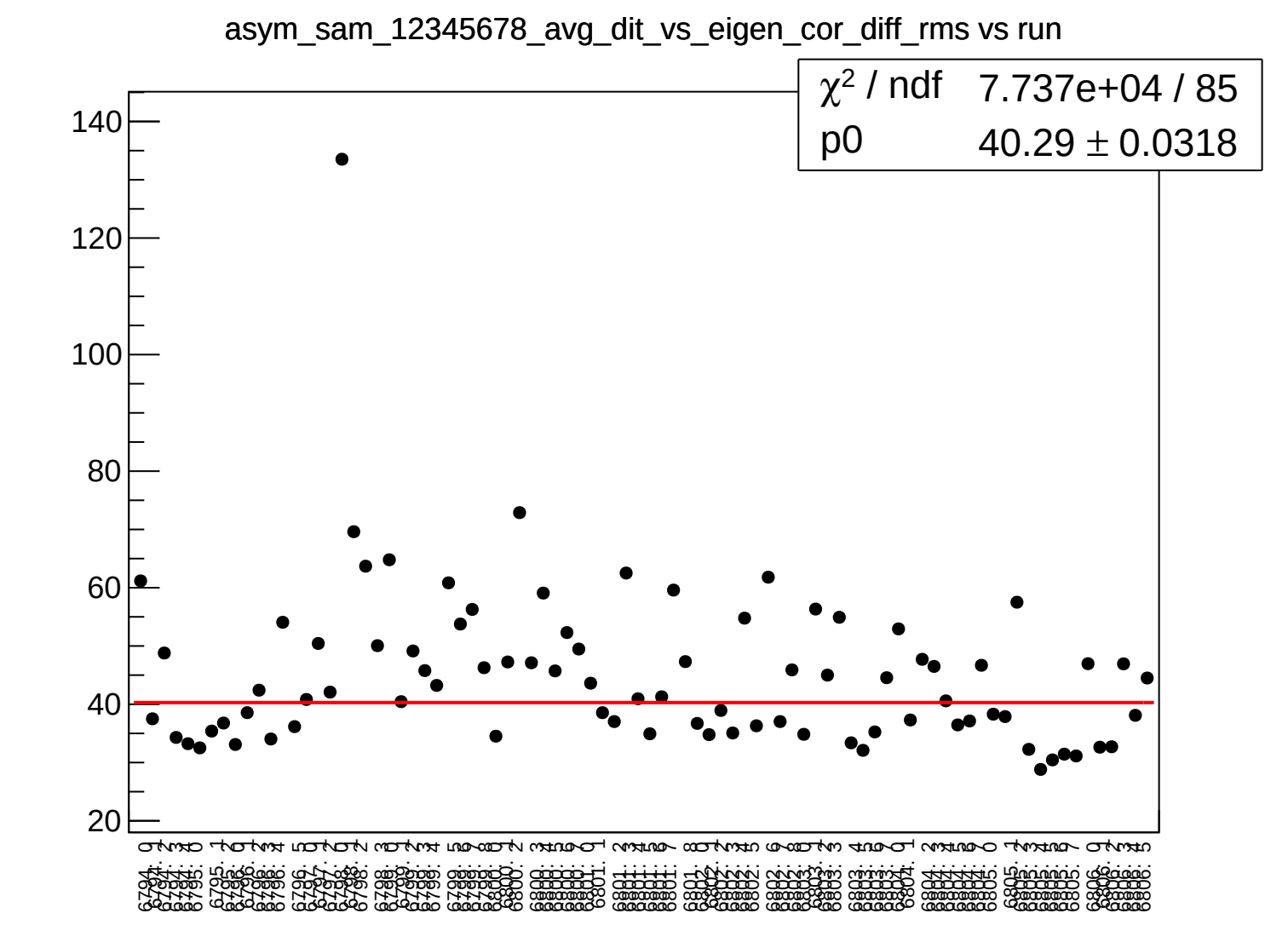

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.12 / 85
p0 −0.07759 ± 0.04497
pull
Entries 86
Mean 64.02
Std Dev 0

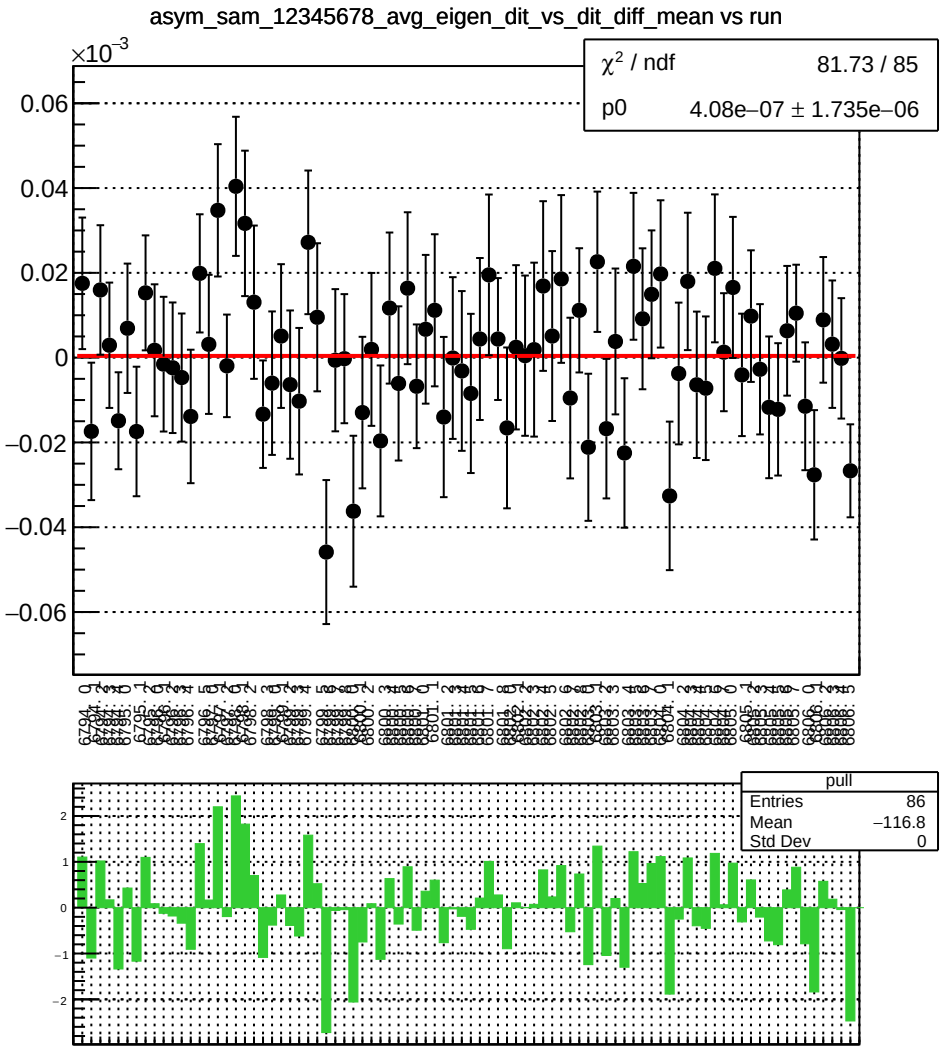

pull1D
Entries 86
Mean 0.01863
Std Dev 1.035

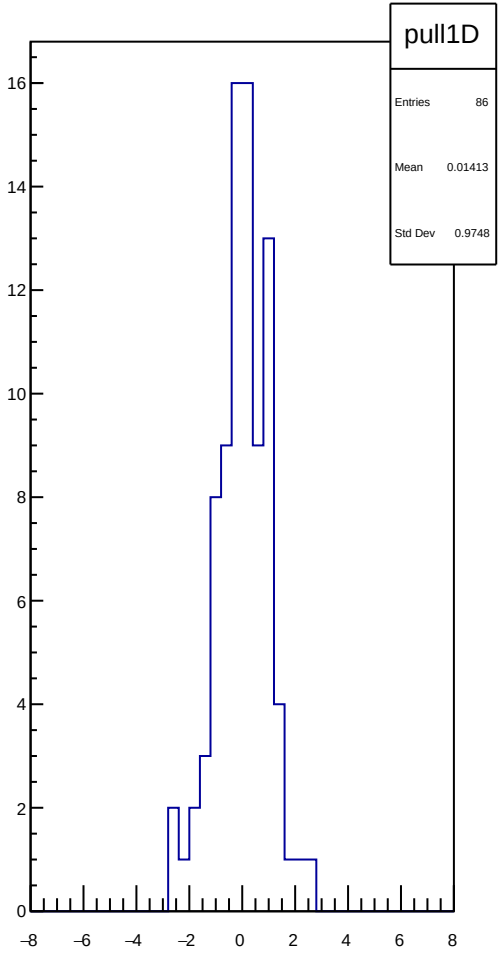

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.737e+04 / 85
p0 40.29 ± 0.0318
140
120
100
80
60
40
20

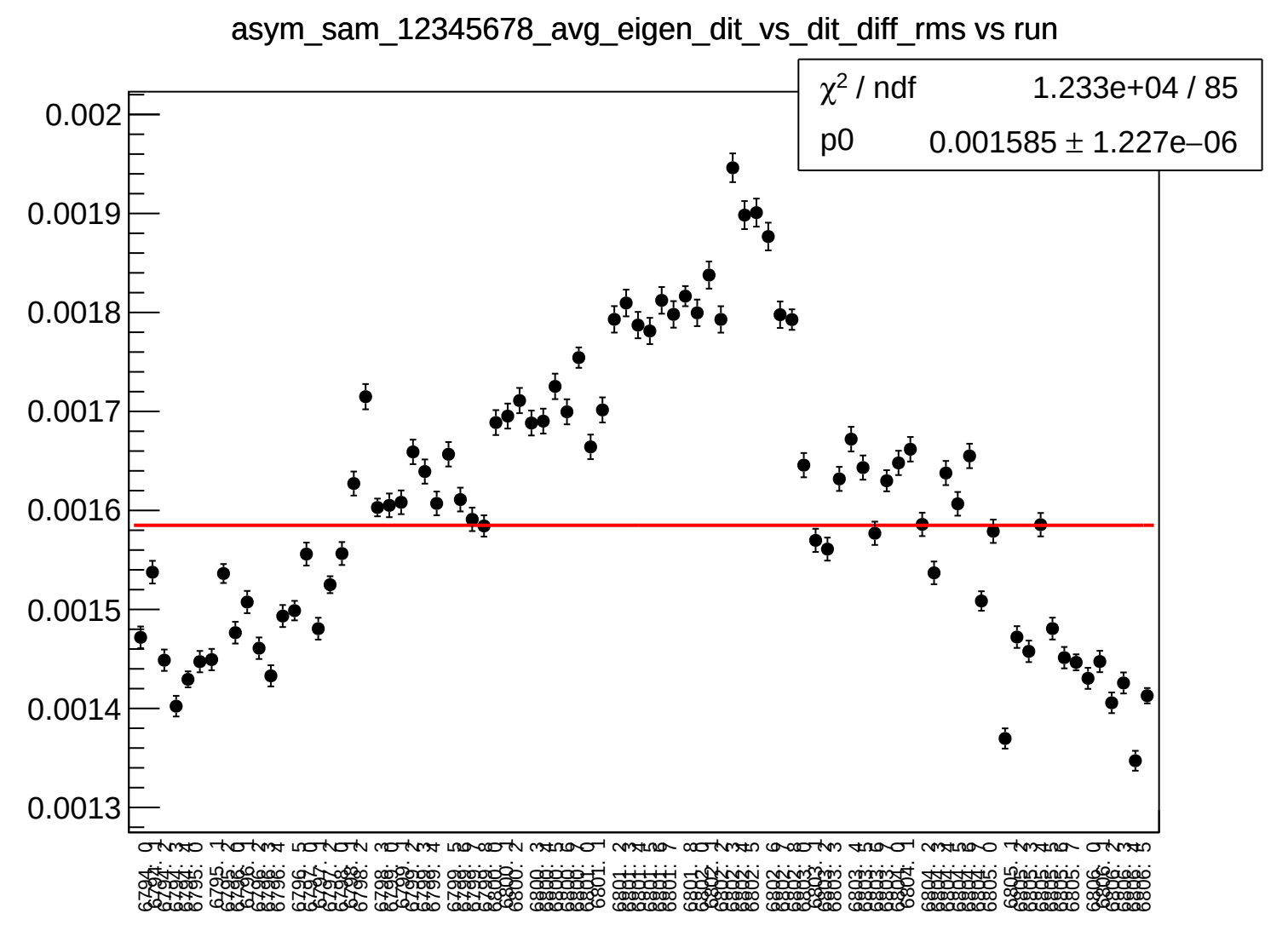

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.12 / 85
p0 −0.07759 ± 0.04497
pull
Entries 86
Mean 64.02
Std Dev 0

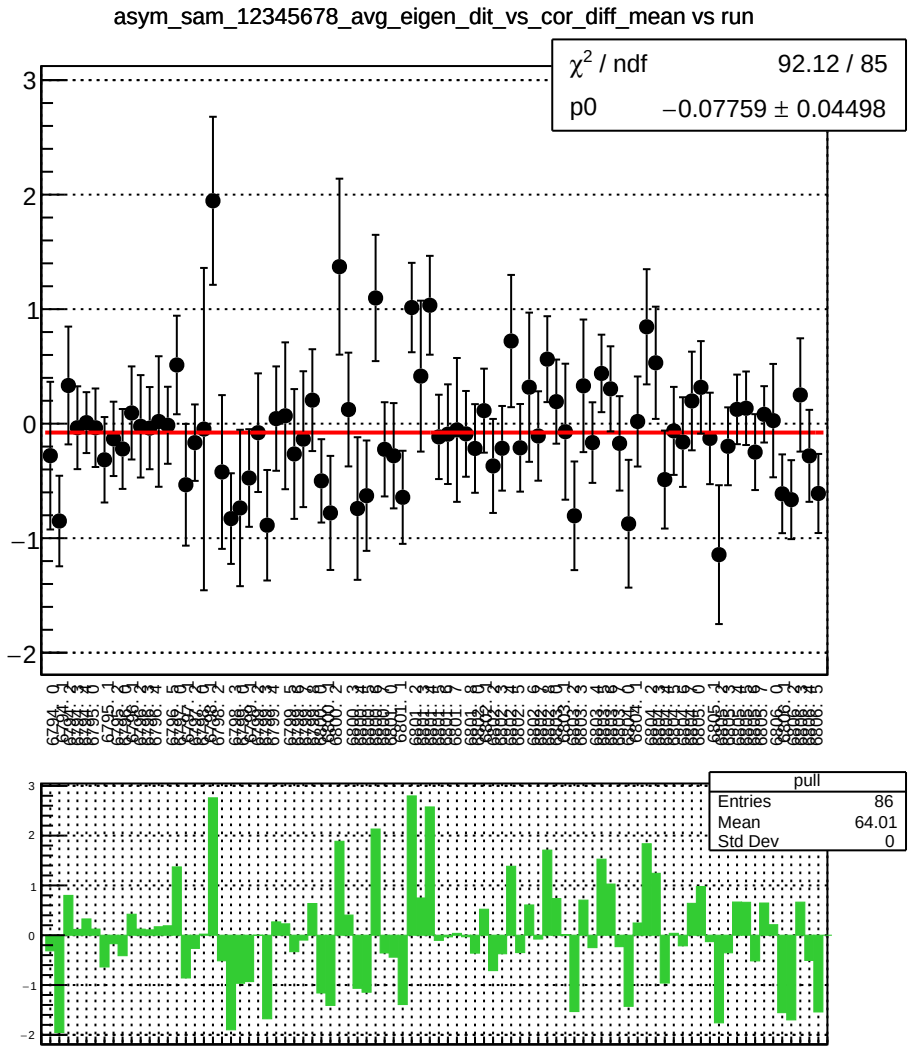

pull1D
Entries 86
Mean 0.01863
Std Dev 1.035

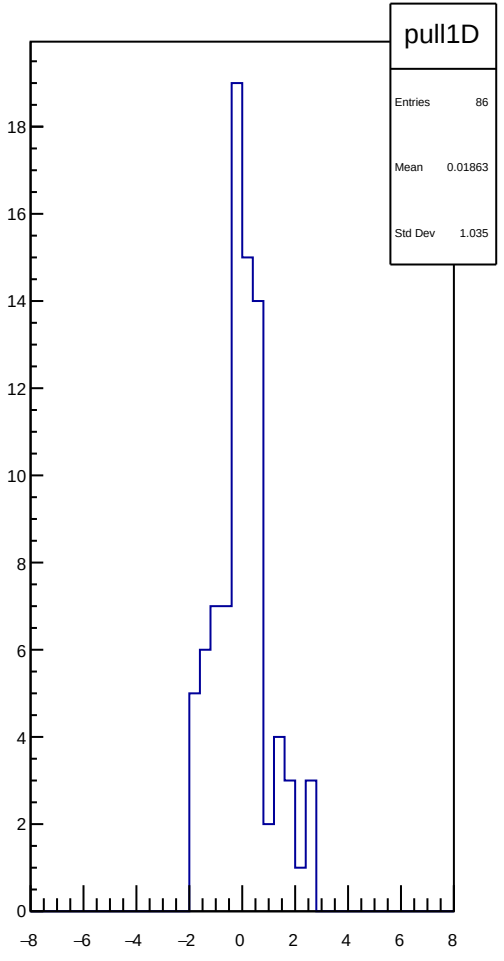

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.737e+04 / 85
p0 40.29 ± 0.0318
140
120
100
80
60
40
20

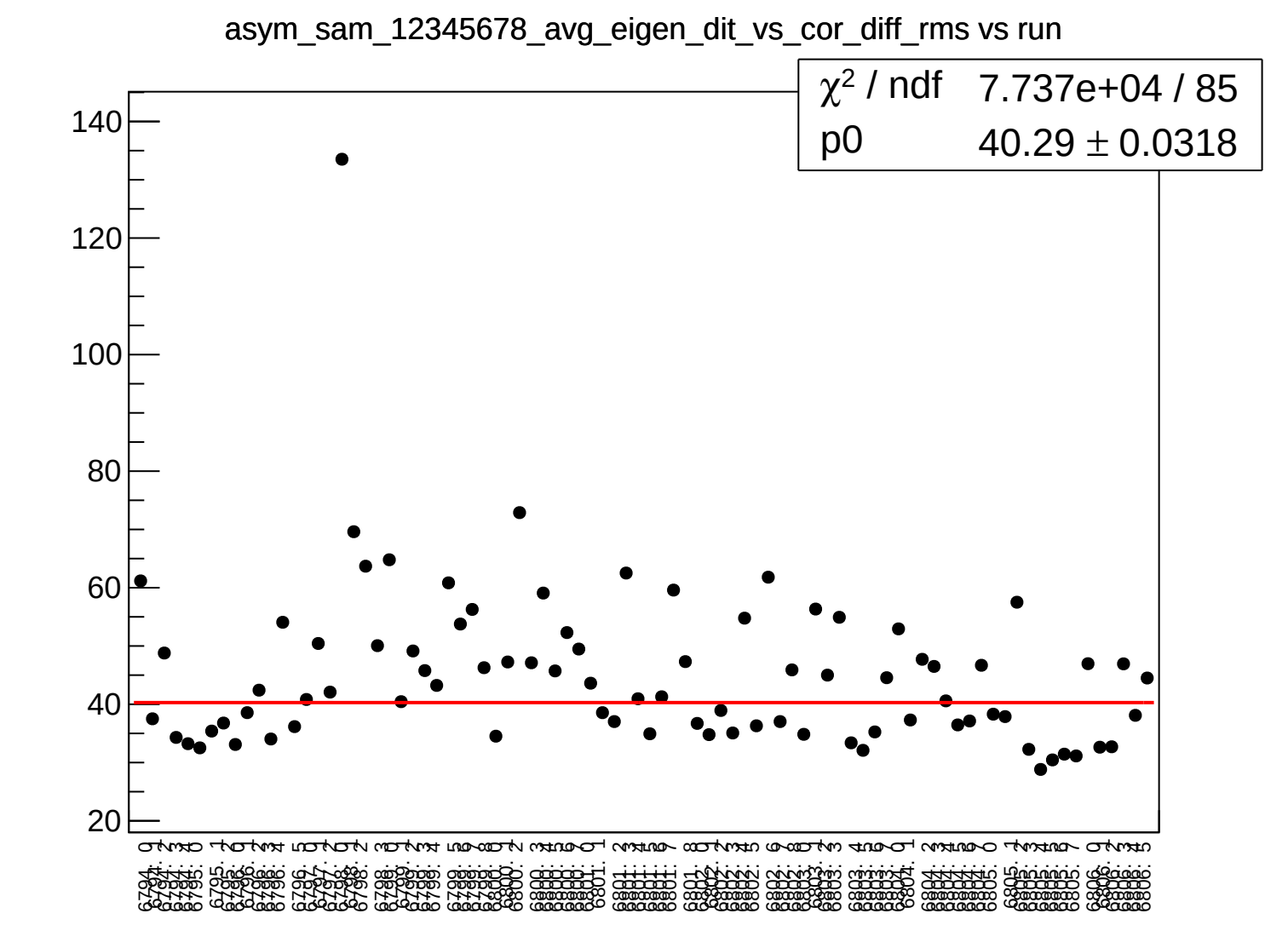

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.73 / 85
p0 4.08e−07 ± 1.735e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 86
Mean −116.8
Std Dev 0
2
1
0
−1
−2

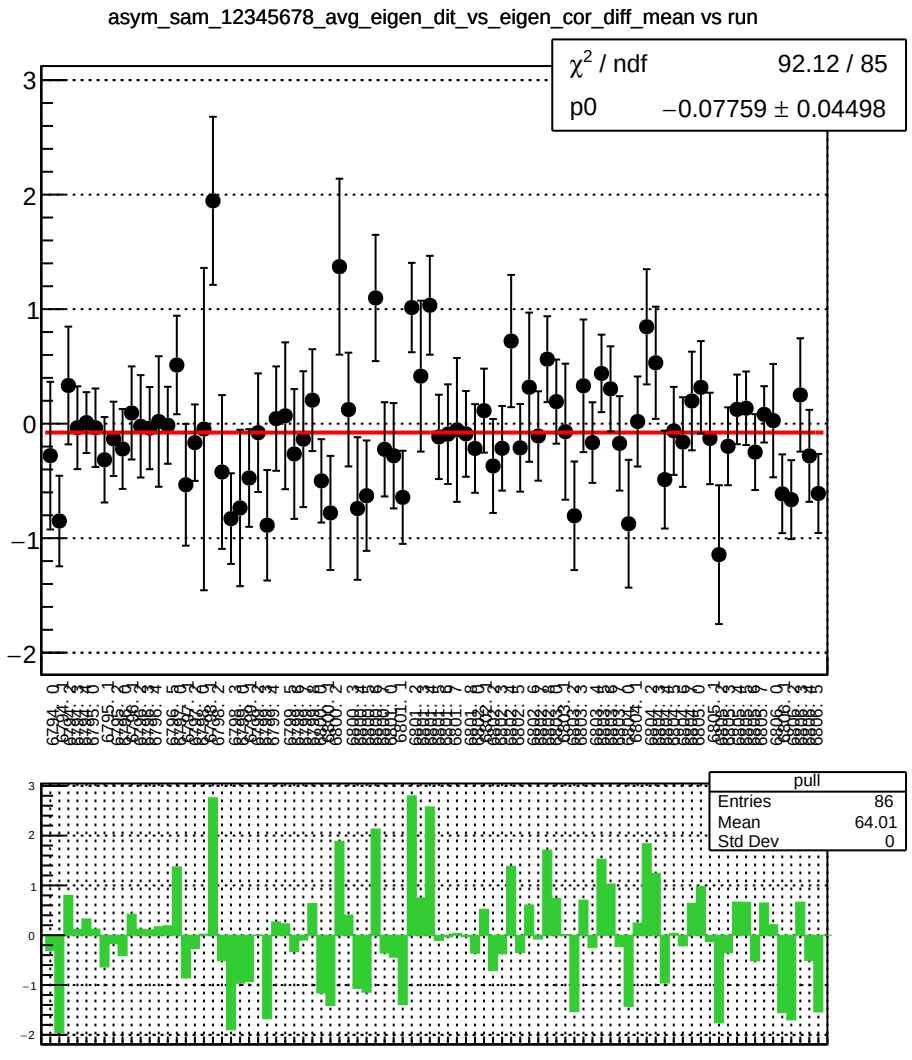

pull1D
Entries 86
Mean 0.01413
Std Dev 0.9748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

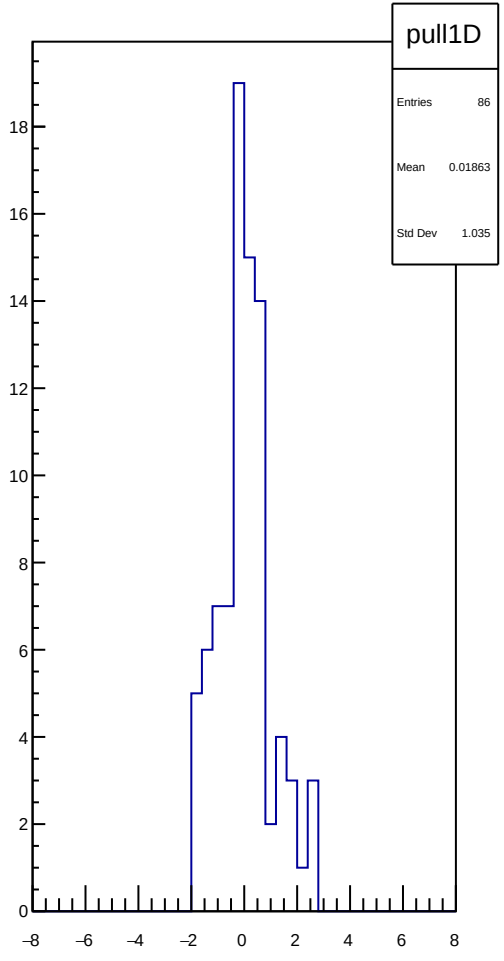

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.233e+04 / 85
p0 0.001585 ± 1.227e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

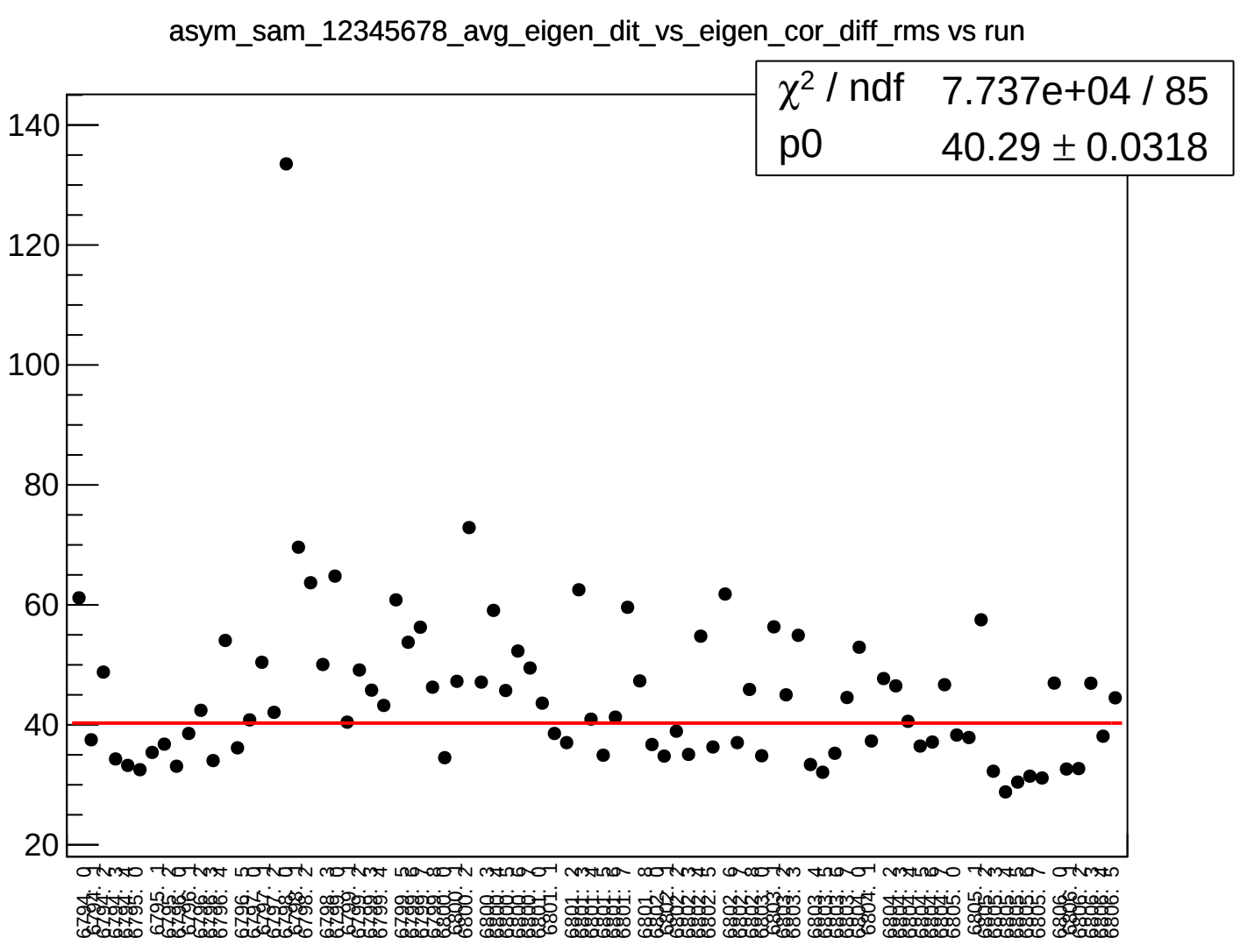

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.12 / 85
p0 −0.07759 ± 0.04498
pull
Entries 86
Mean 64.01
Std Dev 0

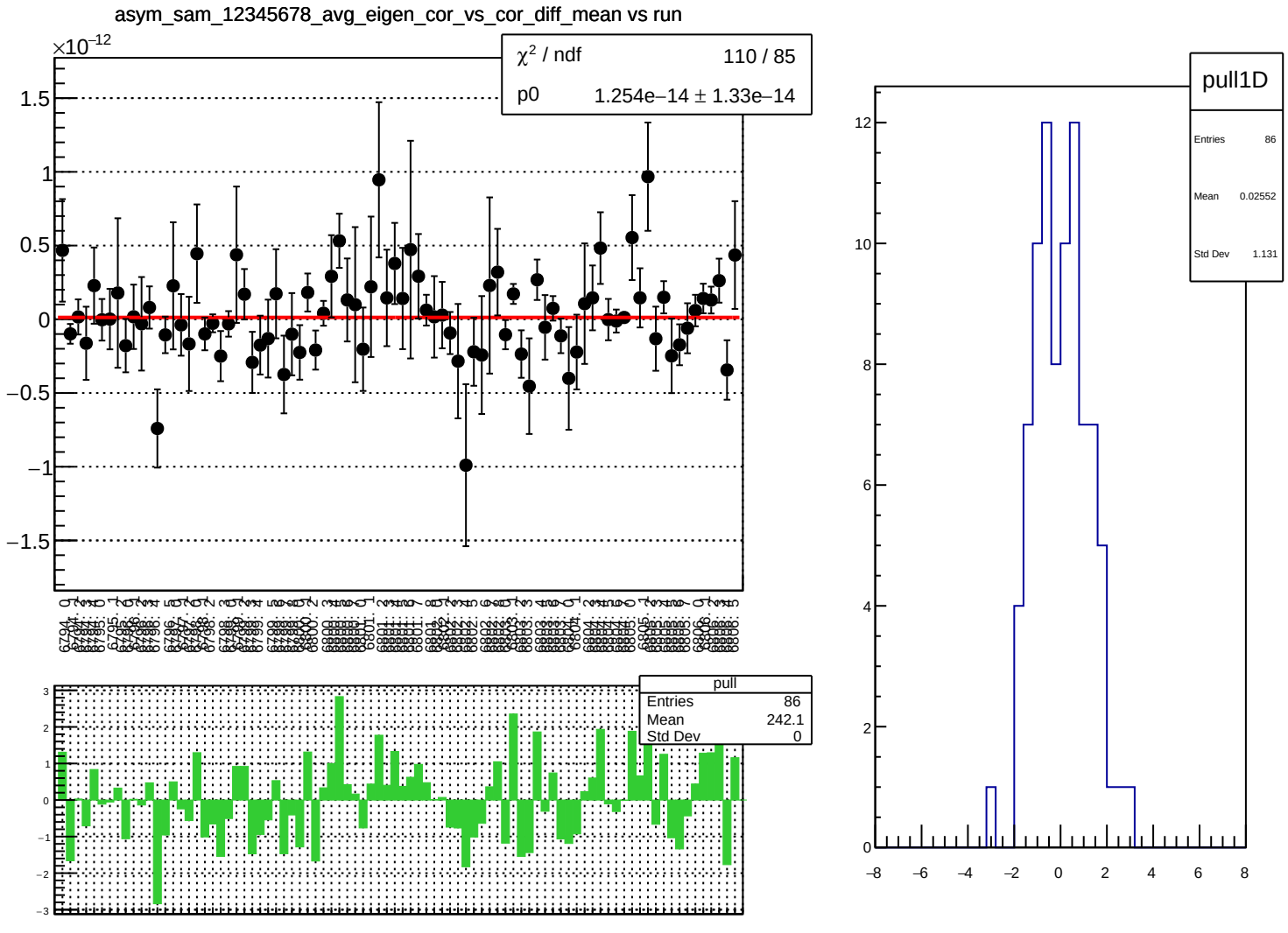

pull1D
Entries 86
Mean 0.01863
Std Dev 1.035

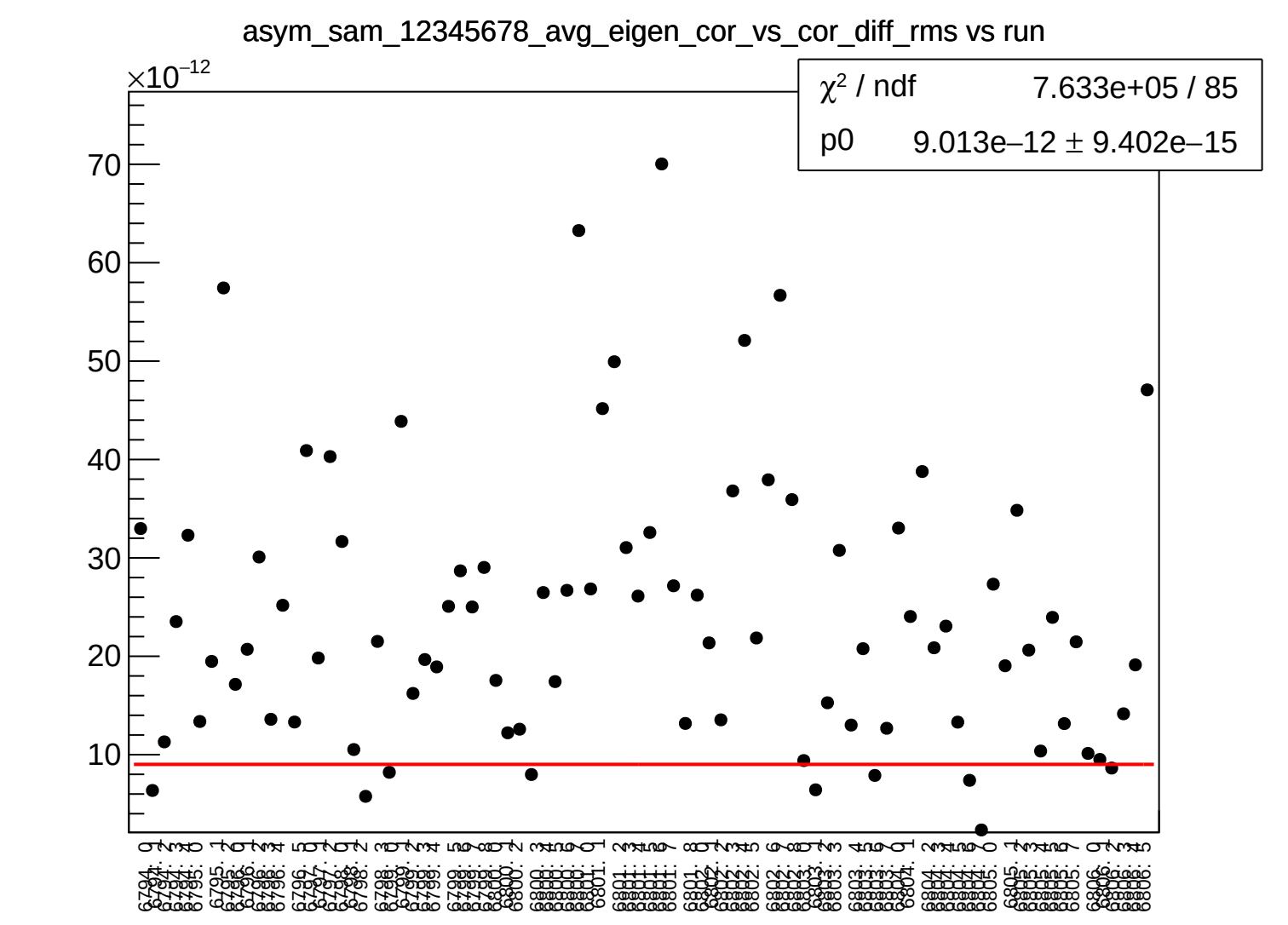

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.737e+04 / 85
p0 40.29 ± 0.0318
140
120
100
80
60
40
20

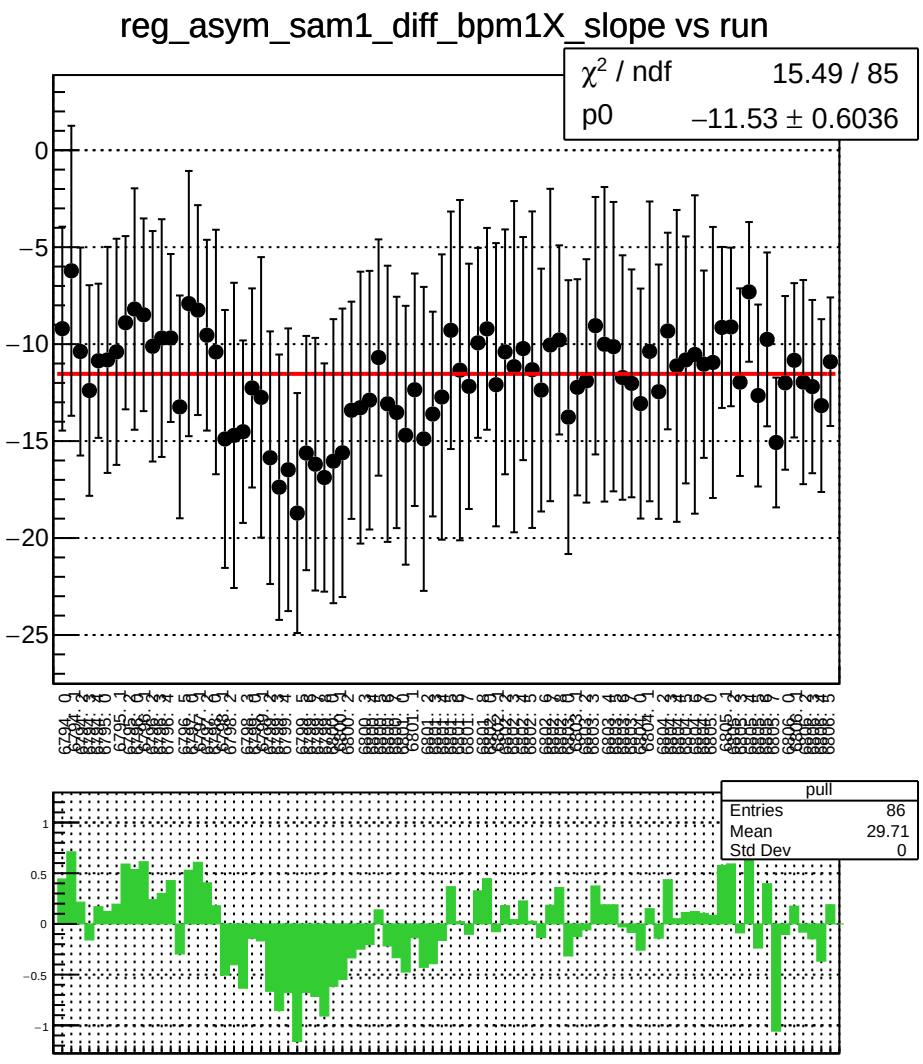

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.12 / 85
p0 −0.07759 ± 0.04498
pull
Entries 86
Mean 64.01
Std Dev 0

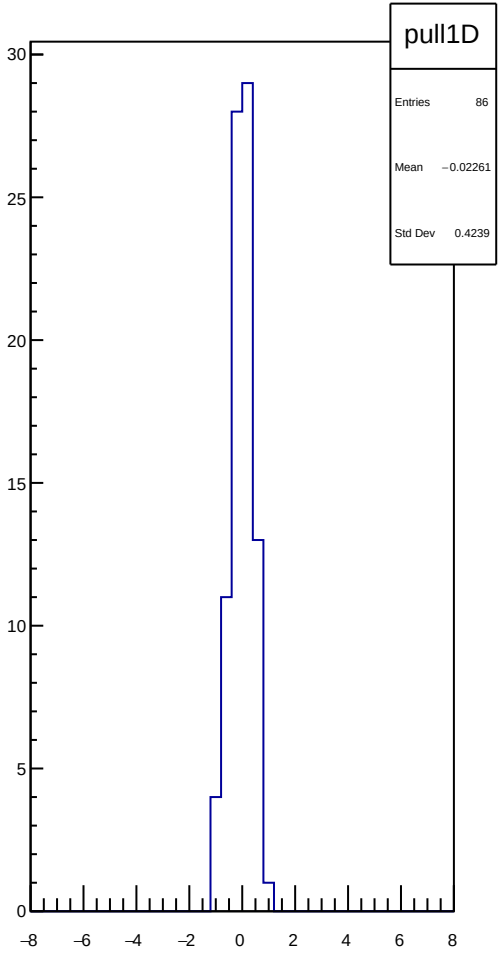

pull1D
Entries 86
Mean 0.01863
Std Dev 1.035

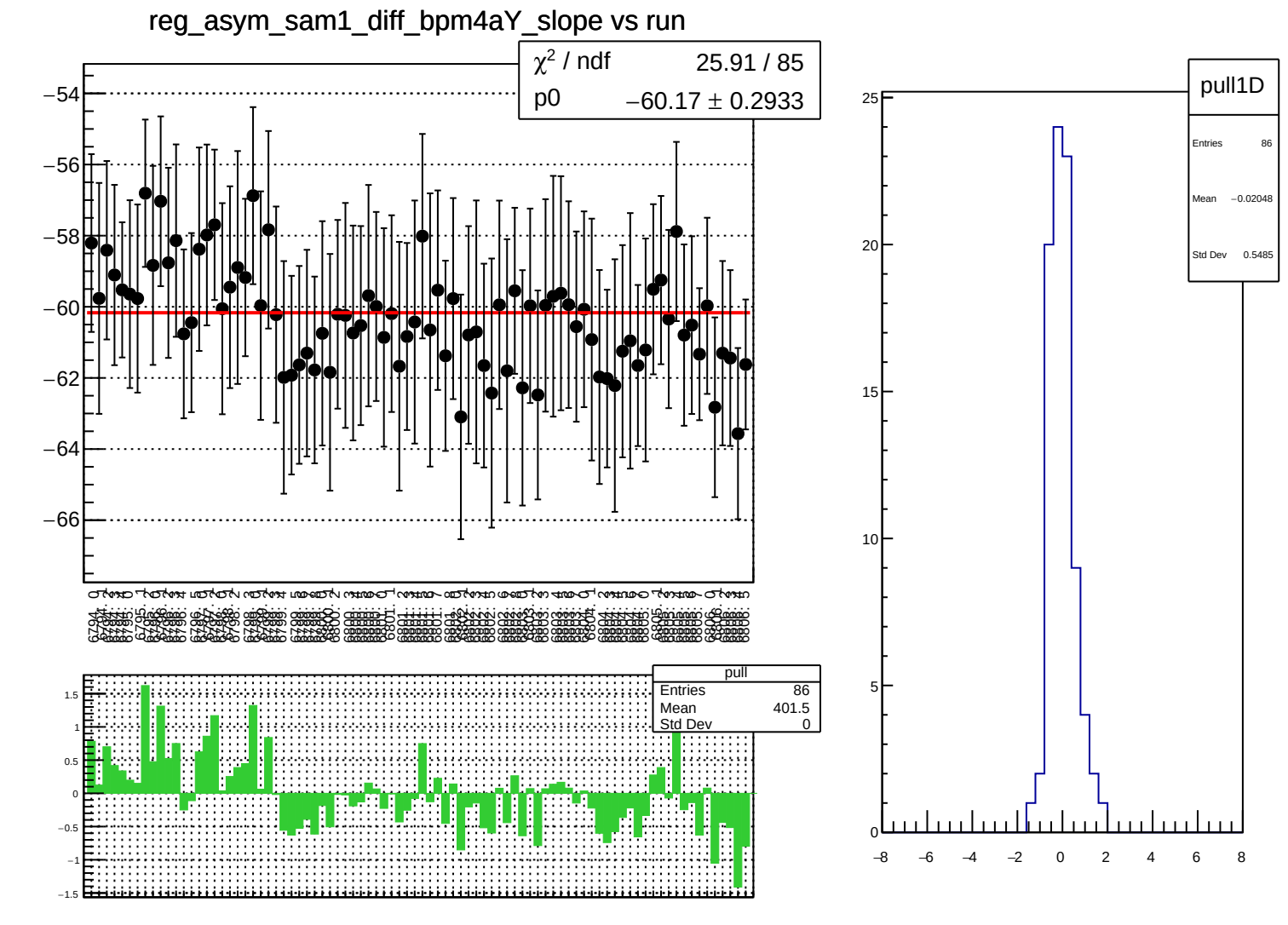

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.737e+04 / 85
p0 40.29 ± 0.0318
140
120
100
80
60
40
20

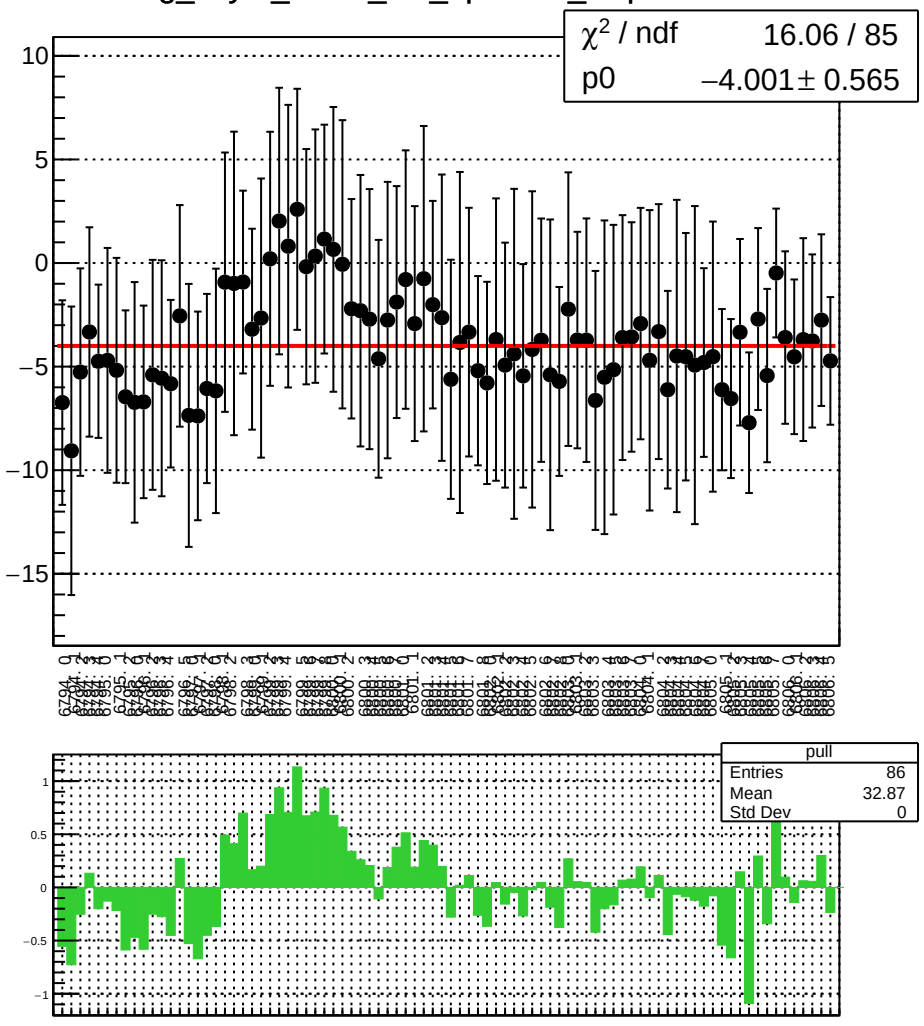

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 110 / 85
p0 1.254e−14 ± 1.33e−14
pull
Entries 86
Mean 242.1
Std Dev 0
pull1D
Entries 86
Mean 0.02552
Std Dev 1.131

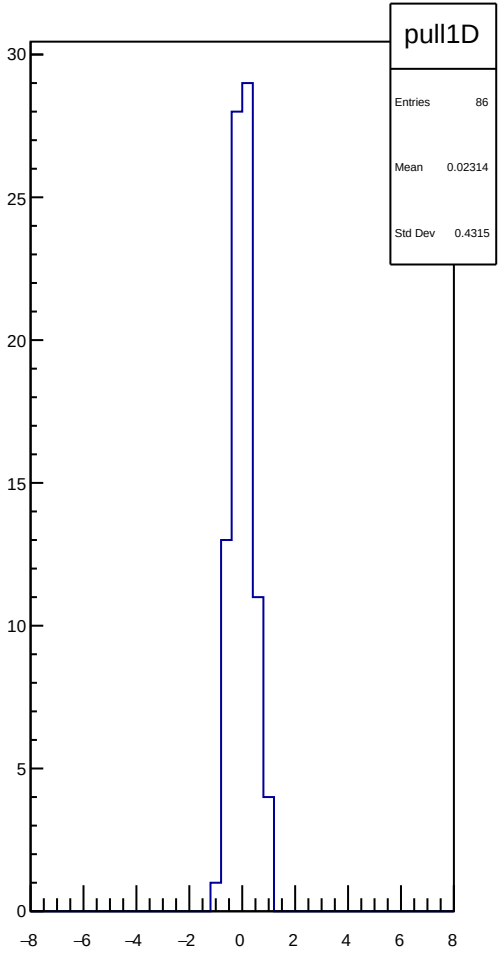

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.633e+05 / 85
p0 9.013e−12 ± 9.402e−15
70
60
50
40
30
20
10

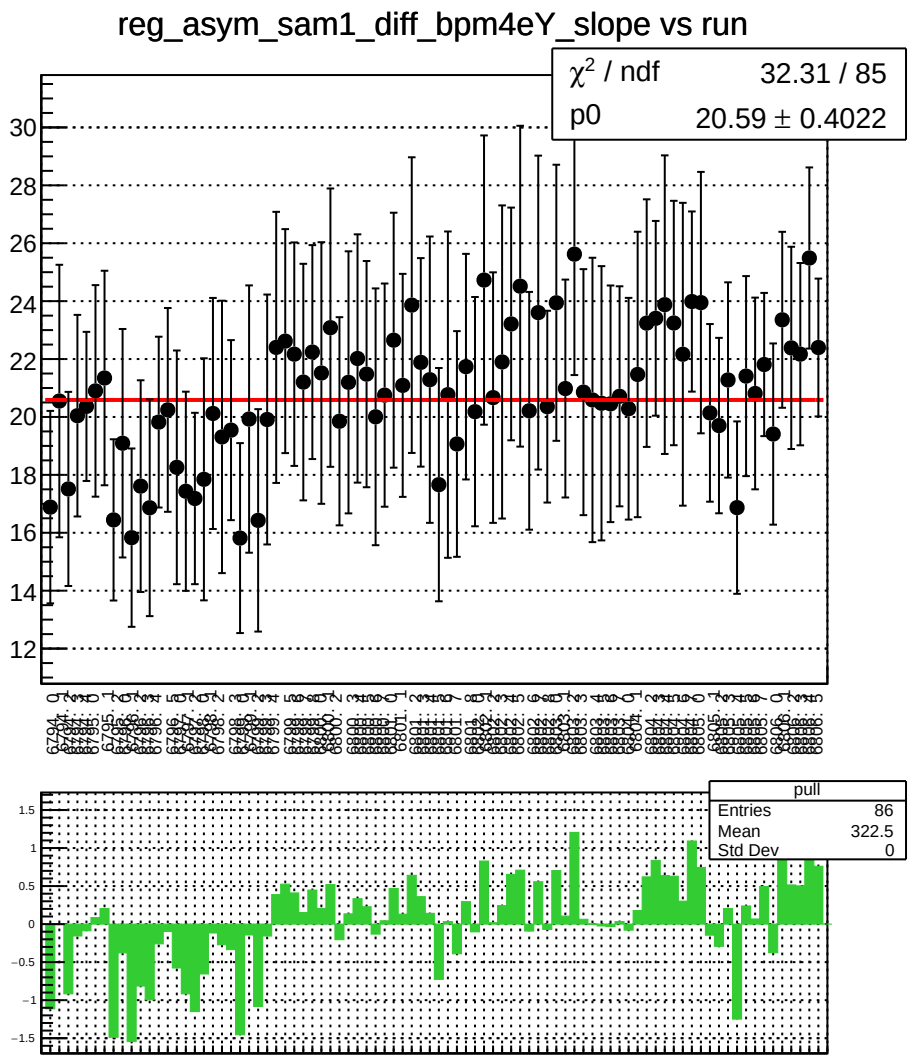

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 15.49 / 85
p0 −11.53 ± 0.6036
pull
Entries 86
Mean 29.71
Std Dev 0

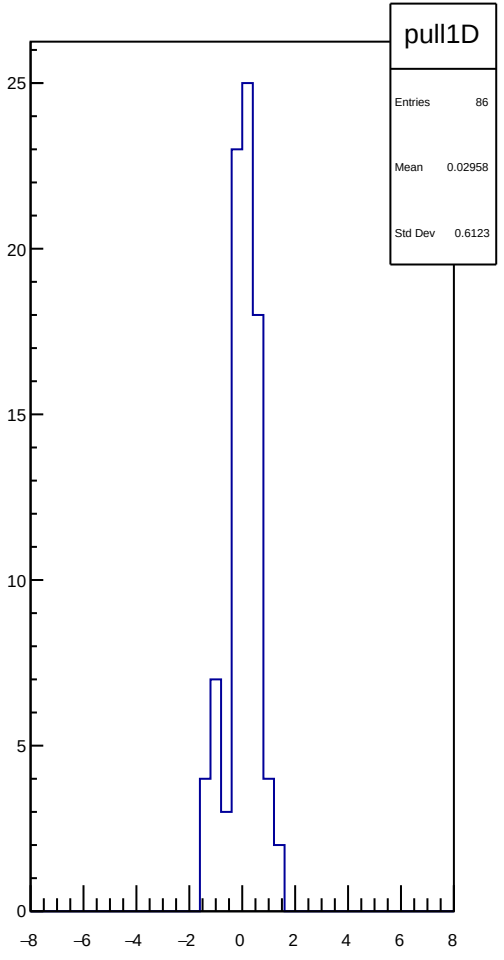

pull1D
Entries 86
Mean −0.02261
Std Dev 0.4239

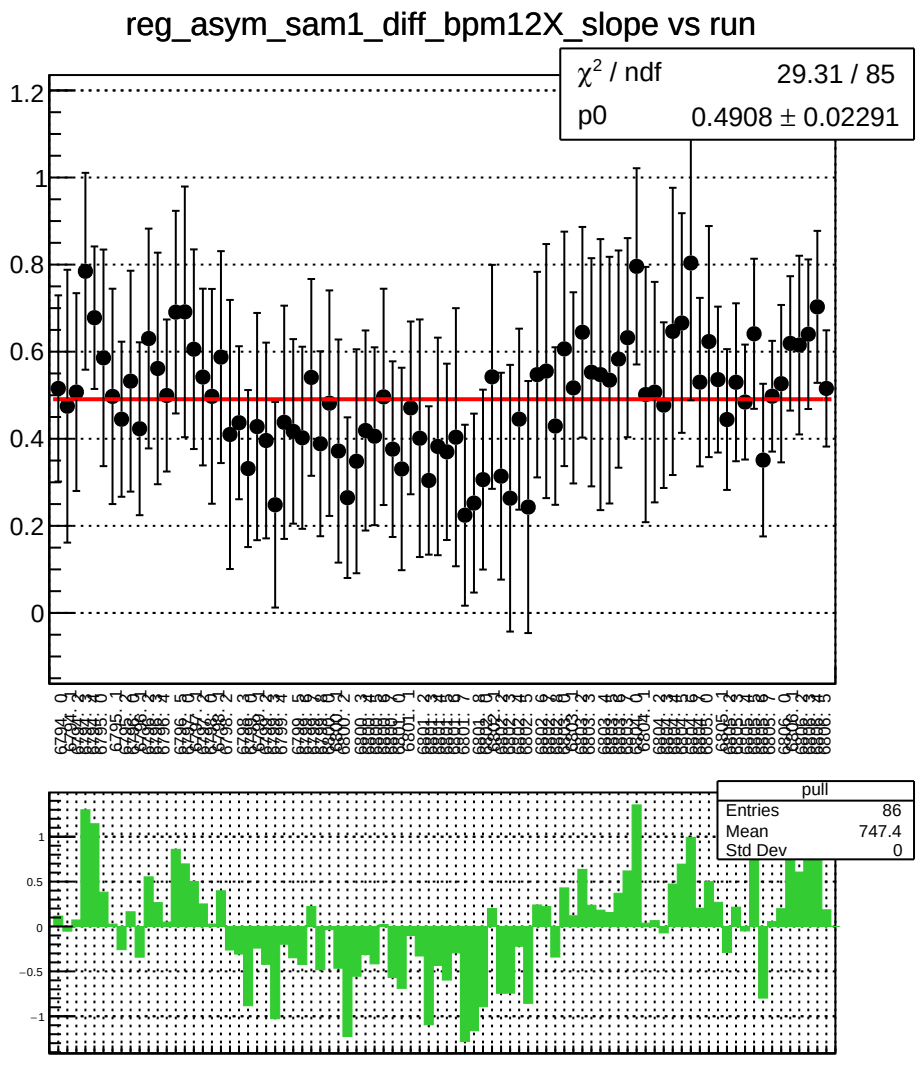

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 25.91 / 85
p0 −60.17 ± 0.2933
pull
Entries 86
Mean 401.5
Std Dev 0
pull1D
Entries 86
Mean −0.02048
Std Dev 0.5485

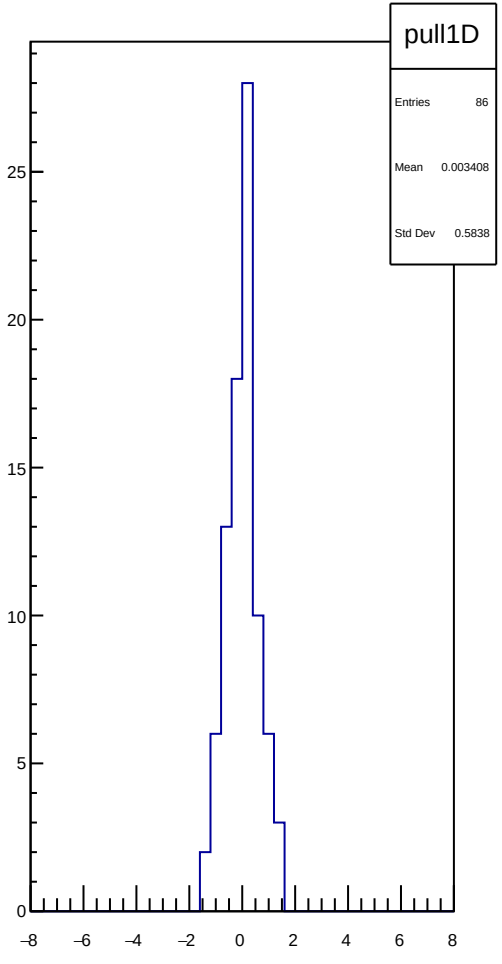

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 16.06 / 85
p0 −4.001 ± 0.565
pull
Entries 86
Mean 32.87
Std Dev 0

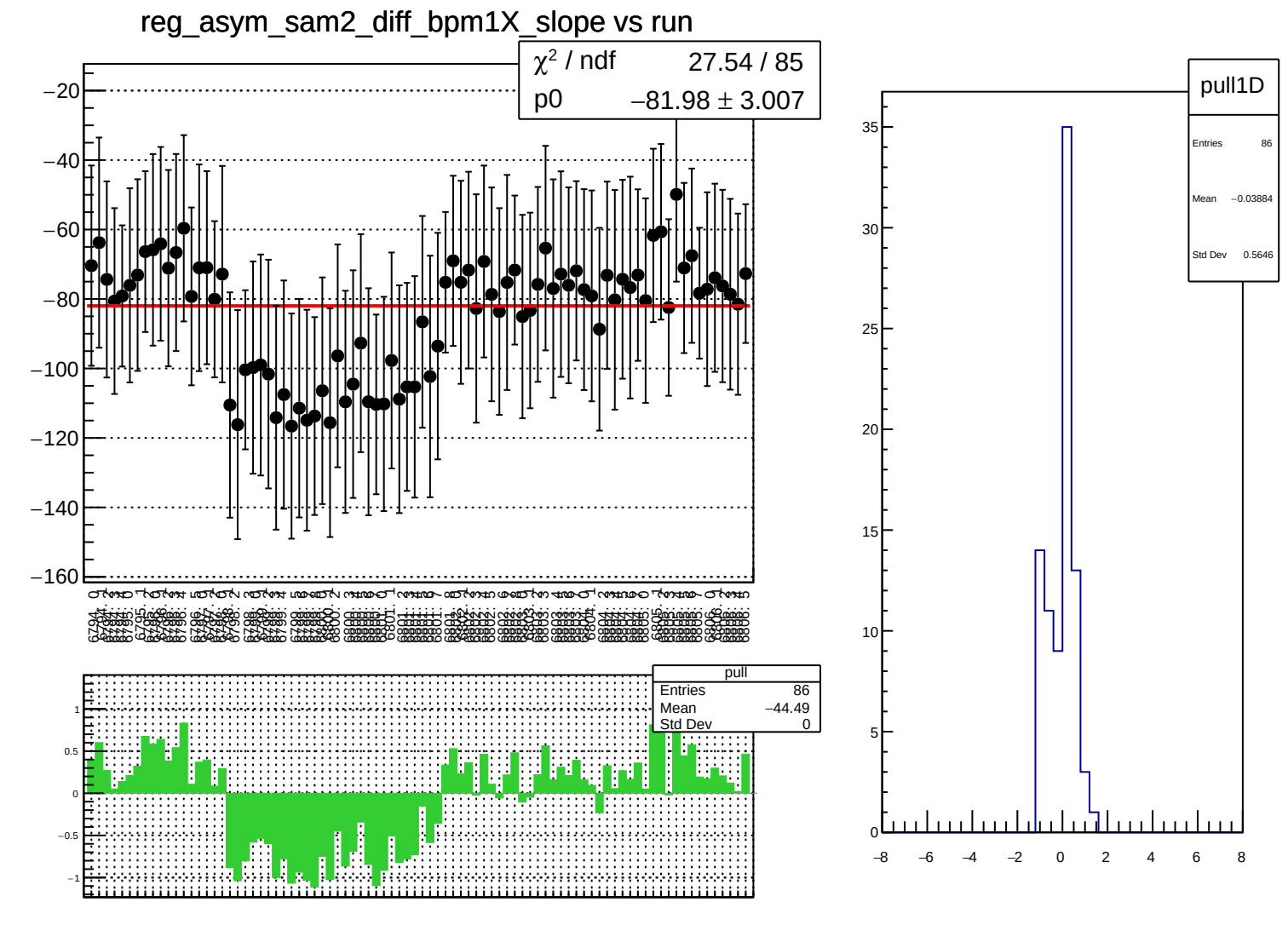

pull1D
Entries 86
Mean 0.02314
Std Dev 0.4315

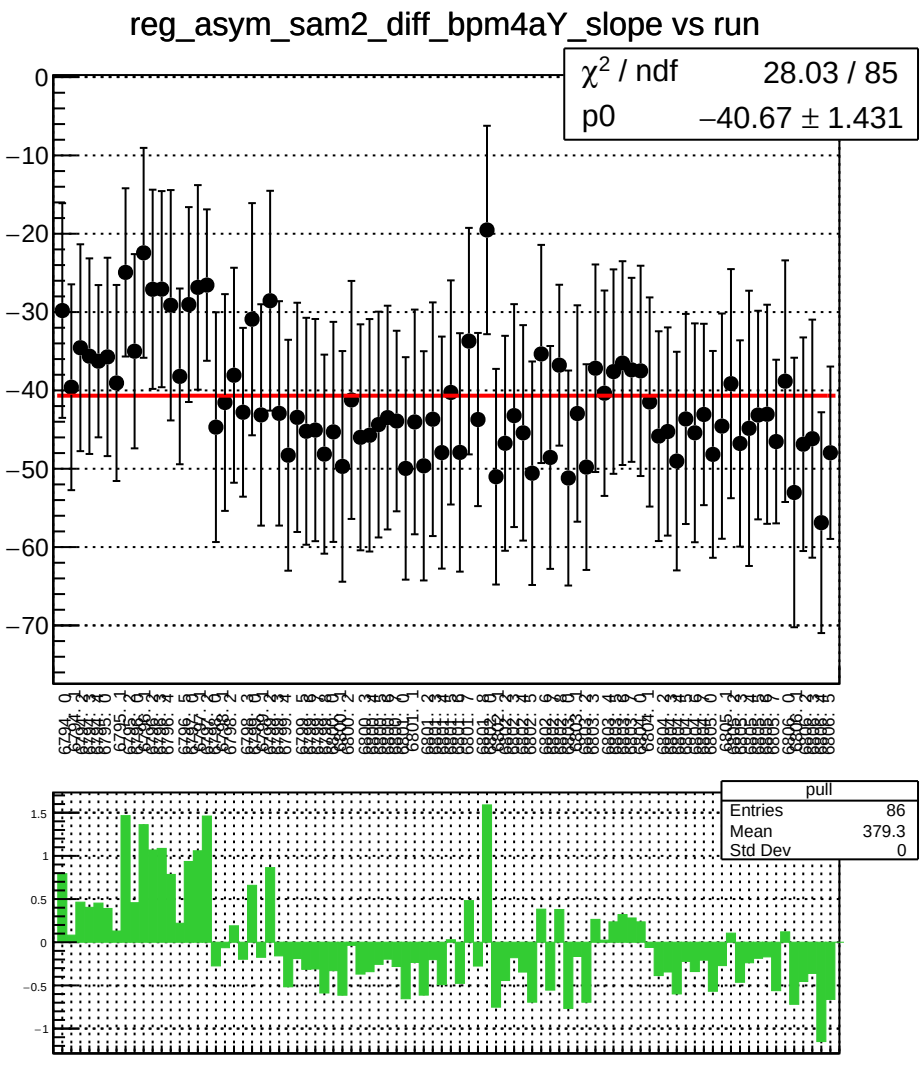

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 32.31 / 85
p0 20.59 ± 0.4022
pull
Entries 86
Mean 322.5
Std Dev 0

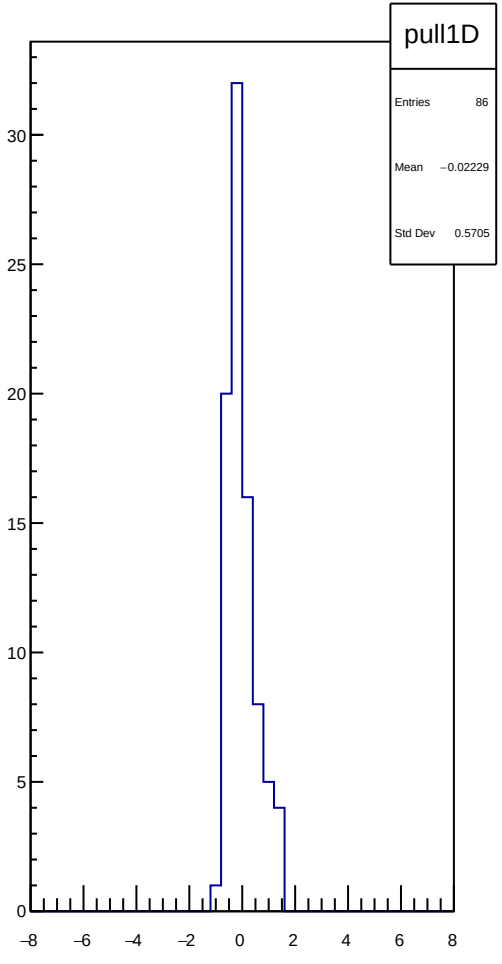

pull1D
Entries 86
Mean 0.02958
Std Dev 0.6123

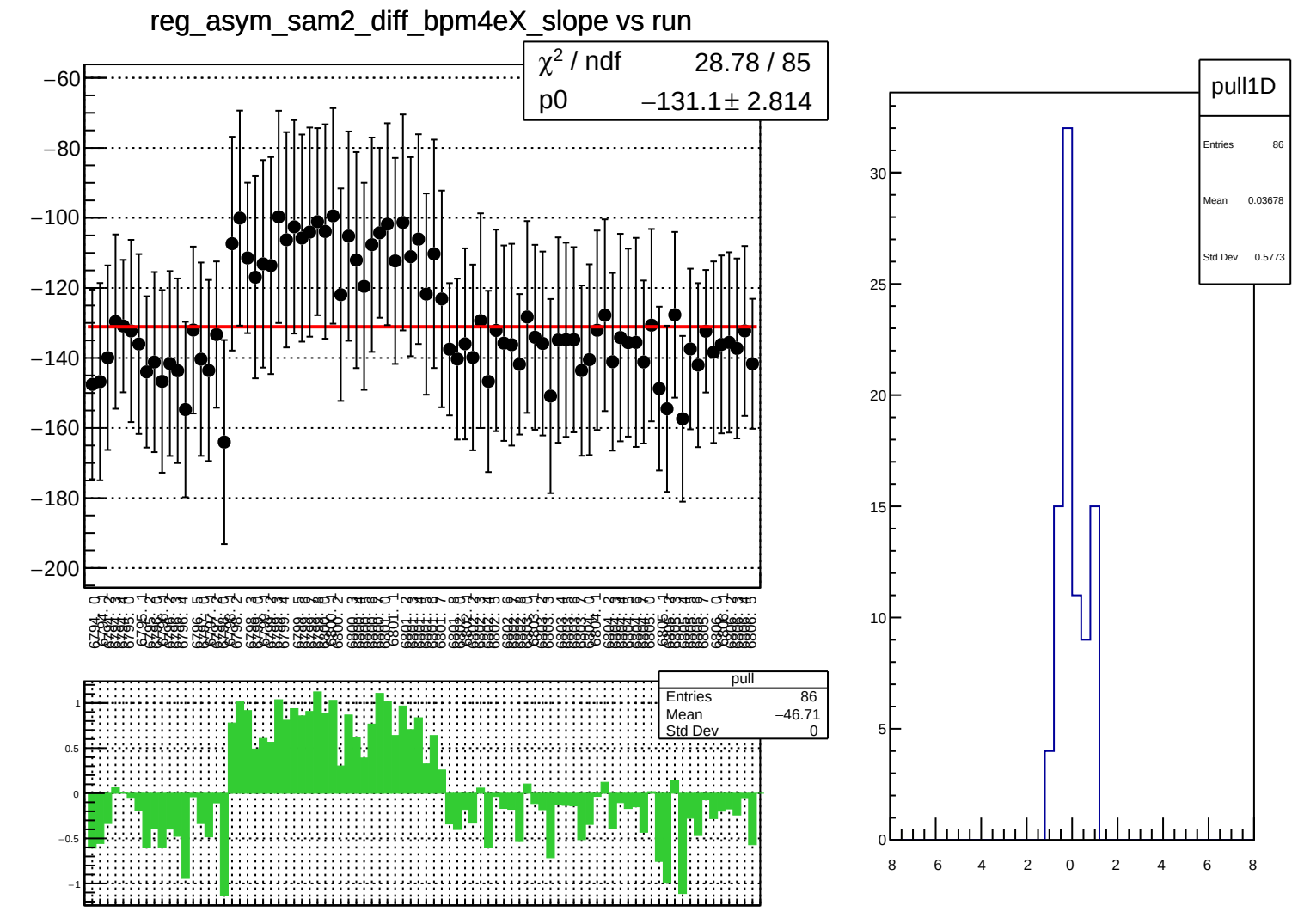

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 29.31 / 85
p0 0.4908 ± 0.02291
pull
Entries 86
Mean 747.4
Std Dev 0

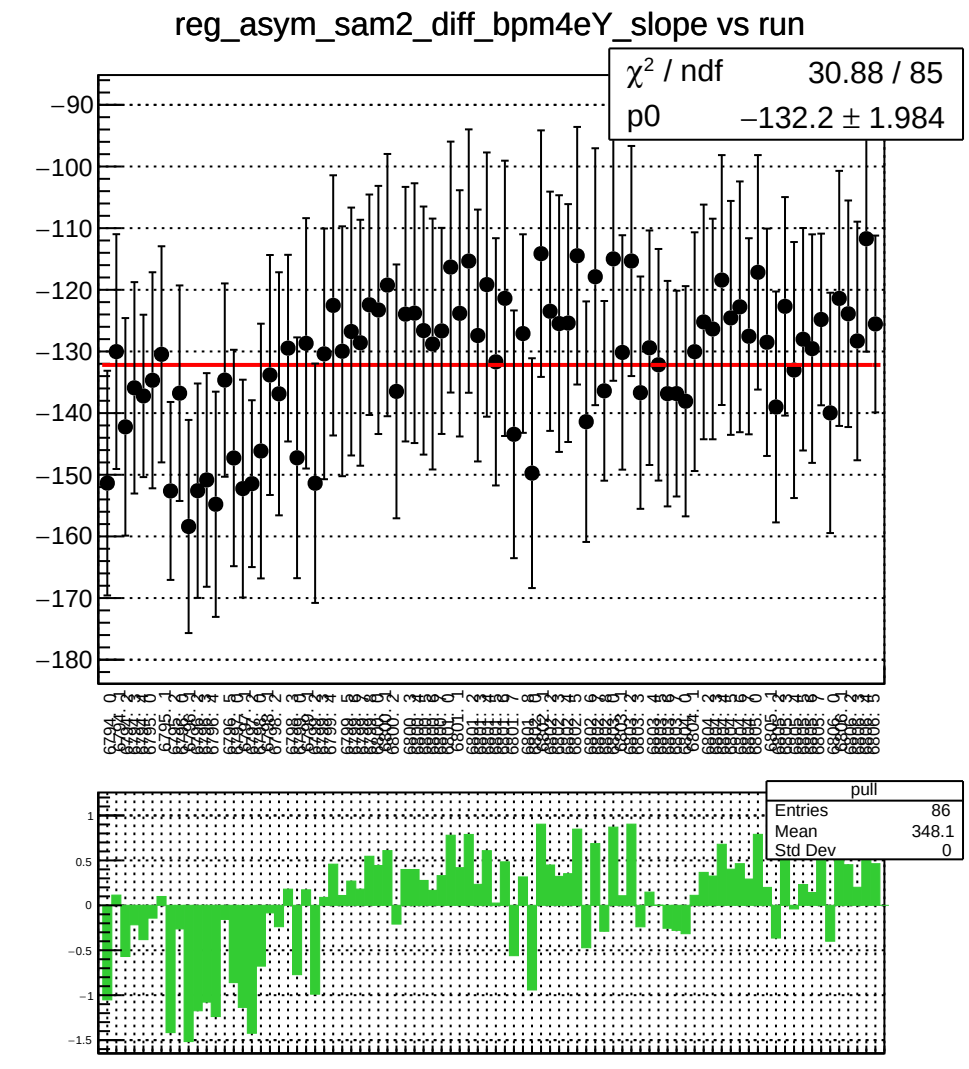

pull1D
Entries 86
Mean 0.003408
Std Dev 0.5838

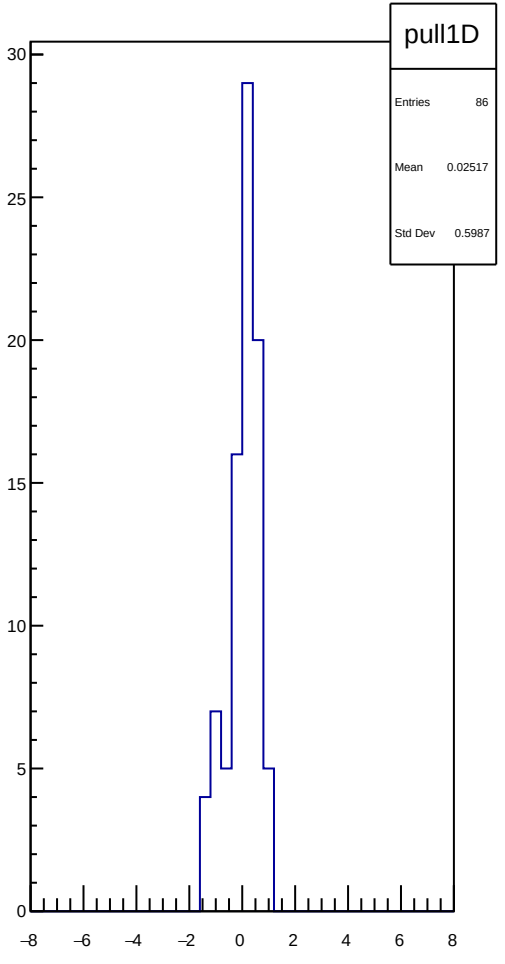

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 27.54 / 85
p0 −81.98 ± 3.007
pull
Entries 86
Mean −44.49
Std Dev 0
pull1D
Entries 86
Mean −0.03884
Std Dev 0.5646

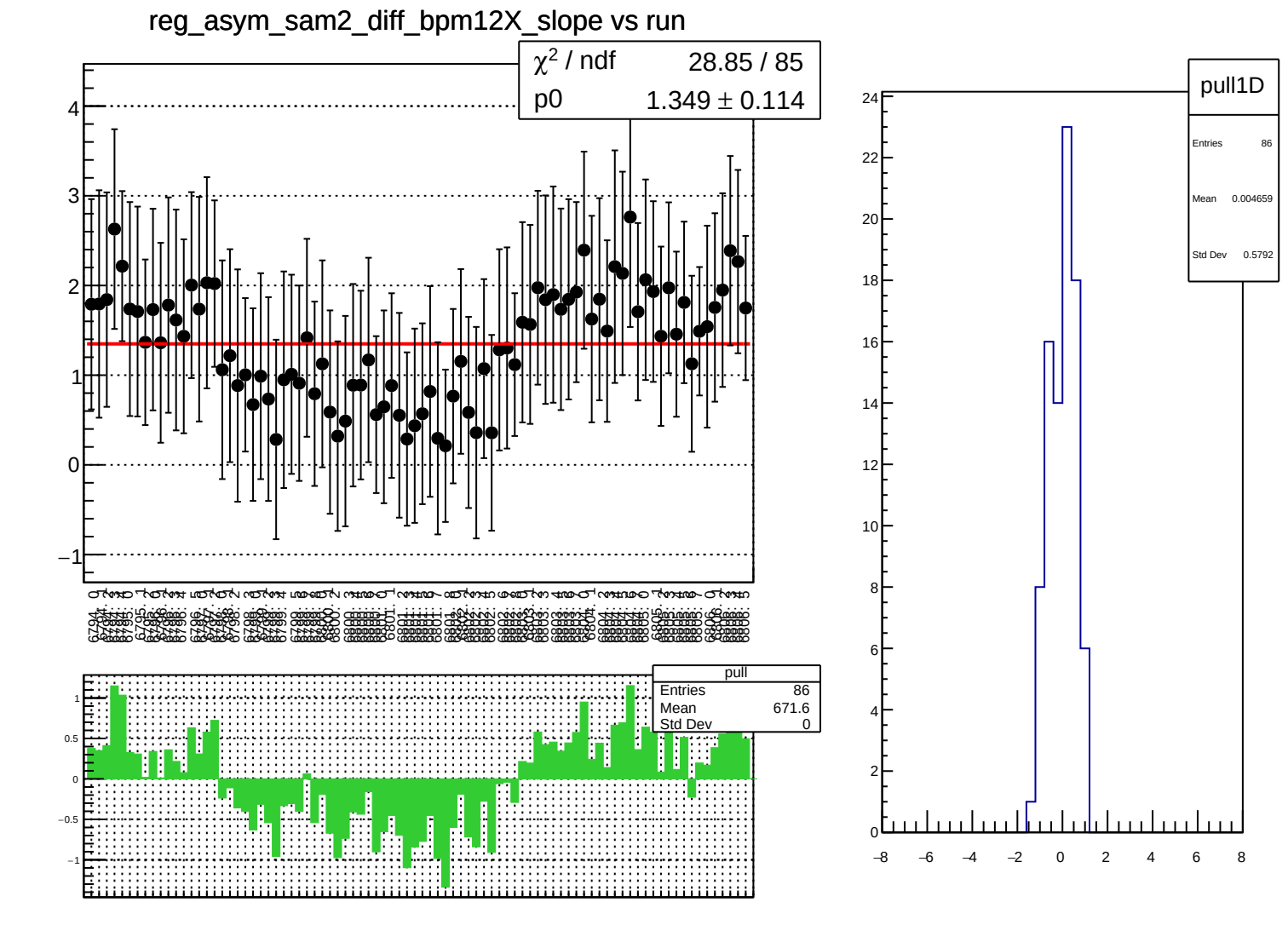

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 28.03 / 85
p0 −40.67 ± 1.431
pull
Entries 86
Mean 379.3
Std Dev 0

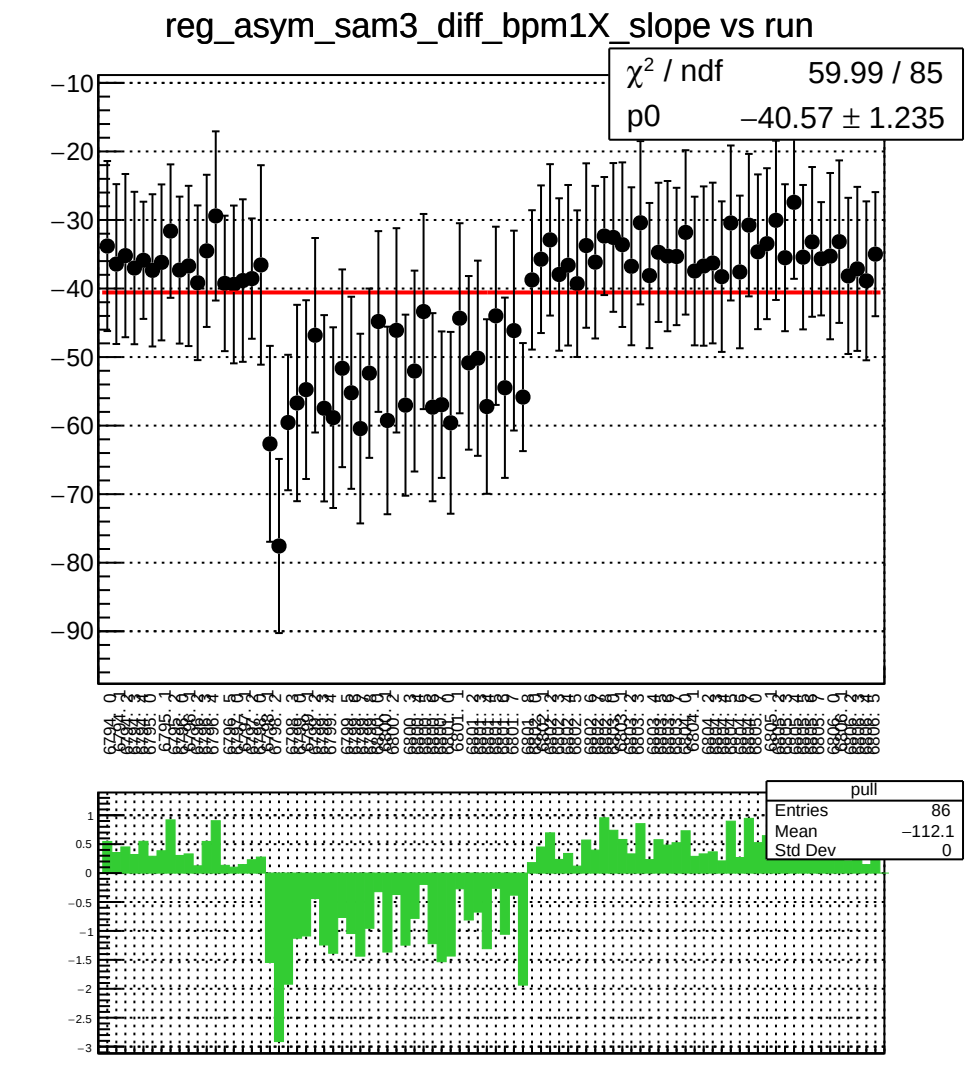

pull1D
Entries 86
Mean −0.02229
Std Dev 0.5705

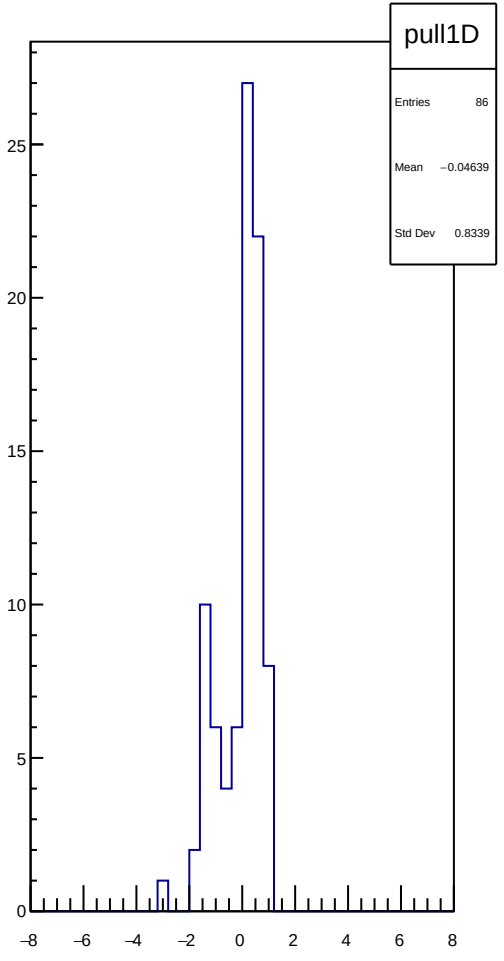

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 28.78 / 85
p0 −131.1 ± 2.814
pull
Entries 86
Mean −46.71
Std Dev 0
pull1D
Entries 86
Mean 0.03678
Std Dev 0.5773

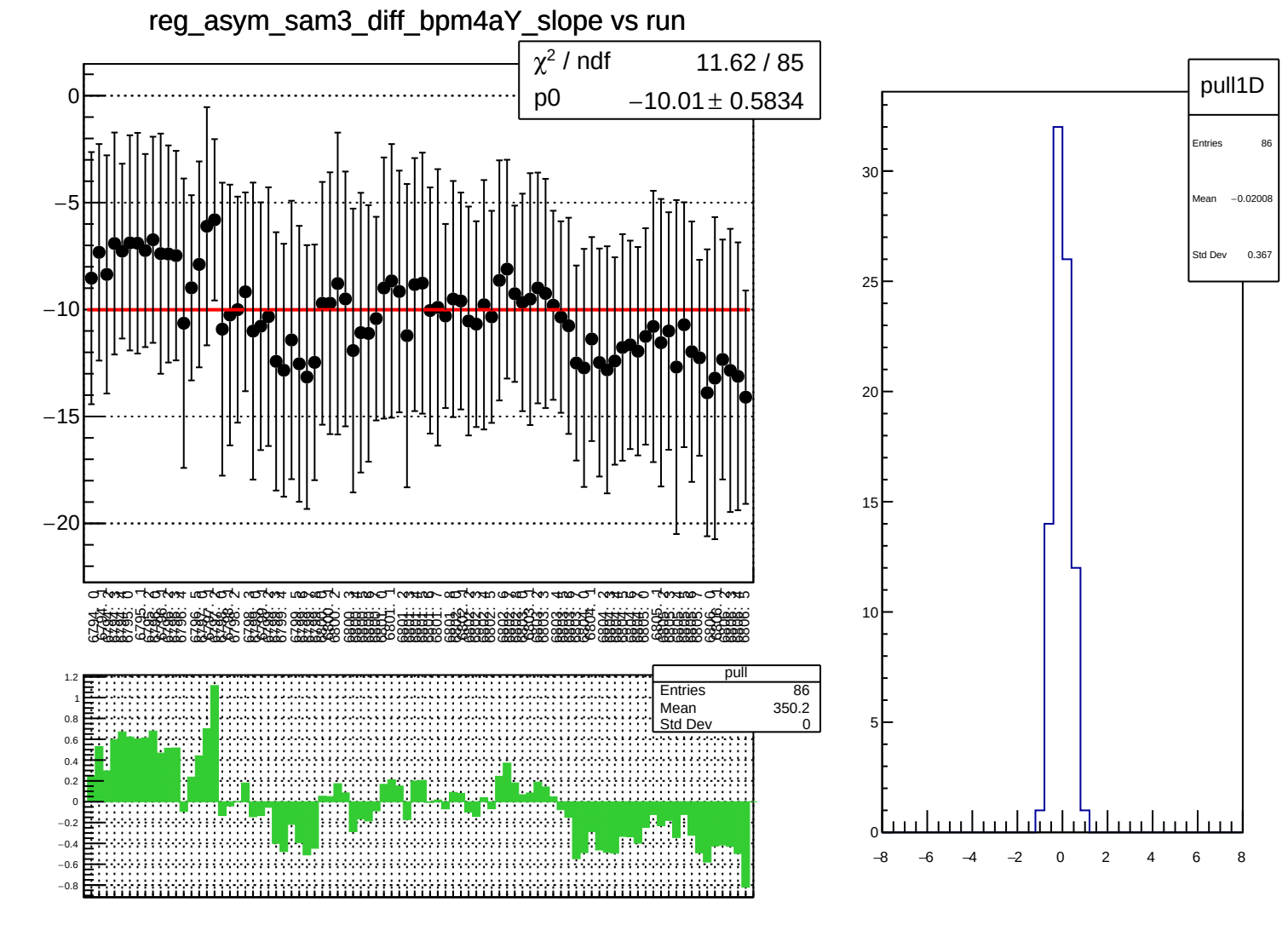

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 30.88 / 85
p0 −132.2 ± 1.984
pull
Entries 86
Mean 348.1
Std Dev 0

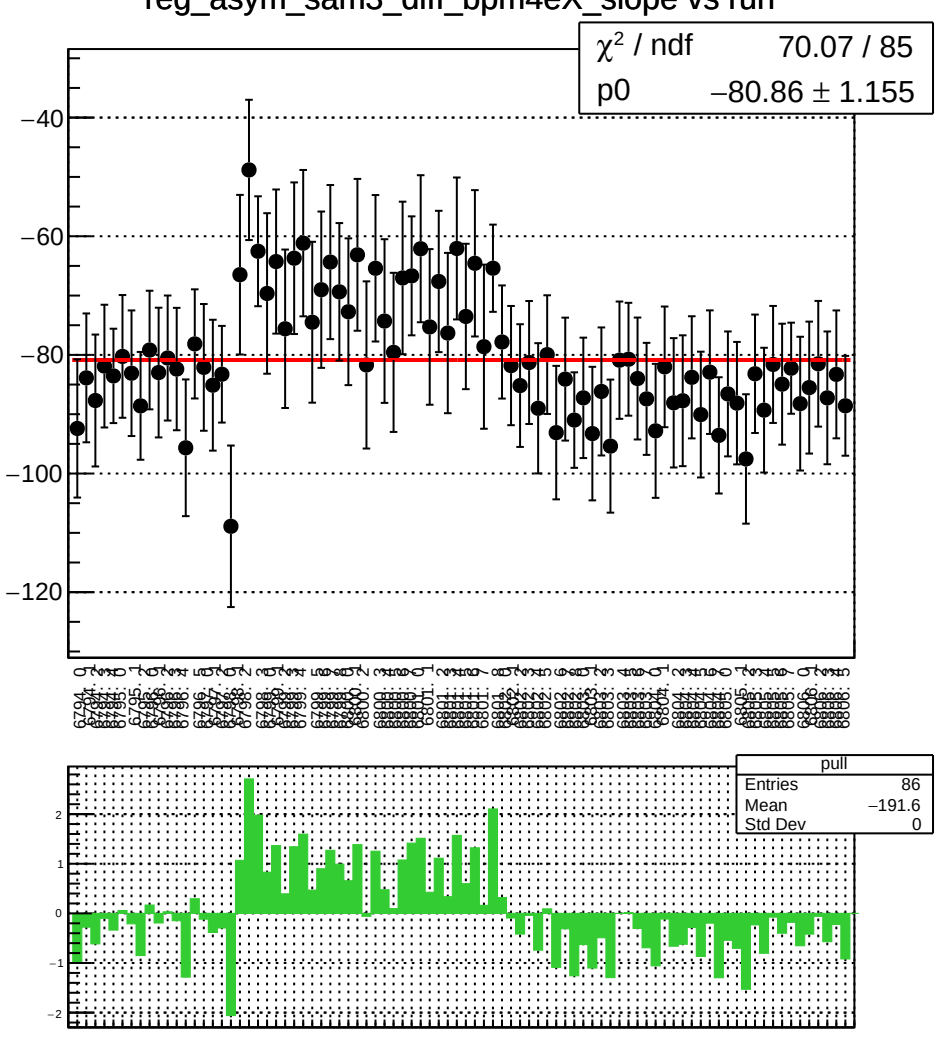

pull1D
Entries 86
Mean 0.02517
Std Dev 0.5987

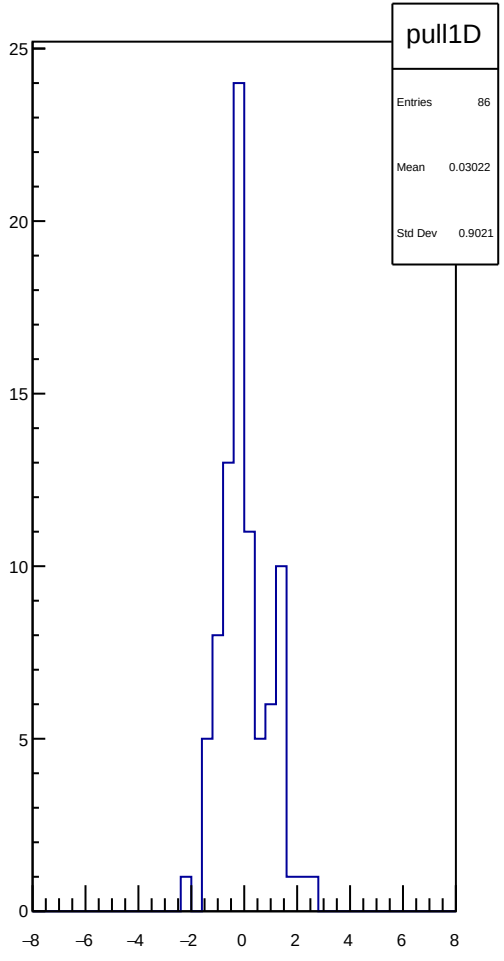

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 28.85 / 85
p0 1.349 ± 0.114
pull
Entries 86
Mean 671.6
Std Dev 0
pull1D
Entries 86
Mean 0.004659
Std Dev 0.5792

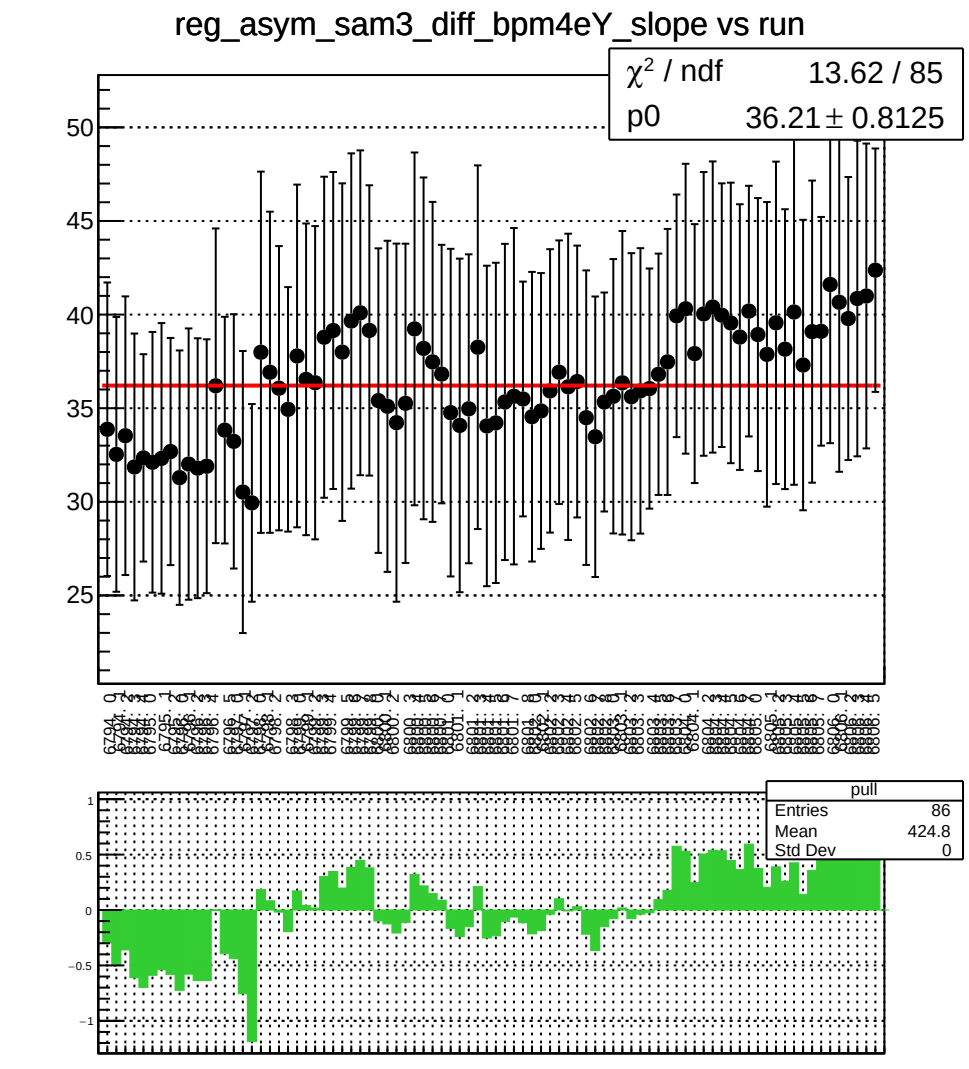

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 59.99 / 85
p0 −40.57 ± 1.235
pull
Entries 86
Mean −112.1
Std Dev 0

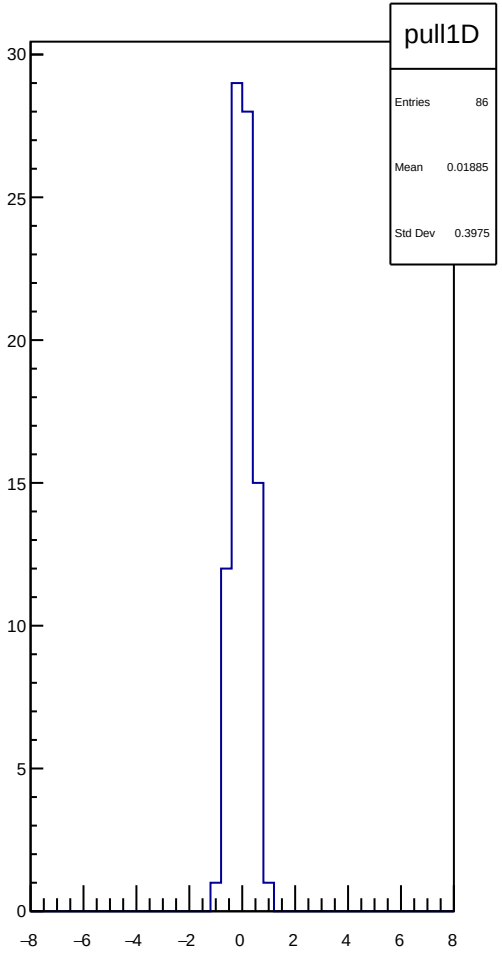

pull1D
Entries 86
Mean −0.04639
Std Dev 0.8339

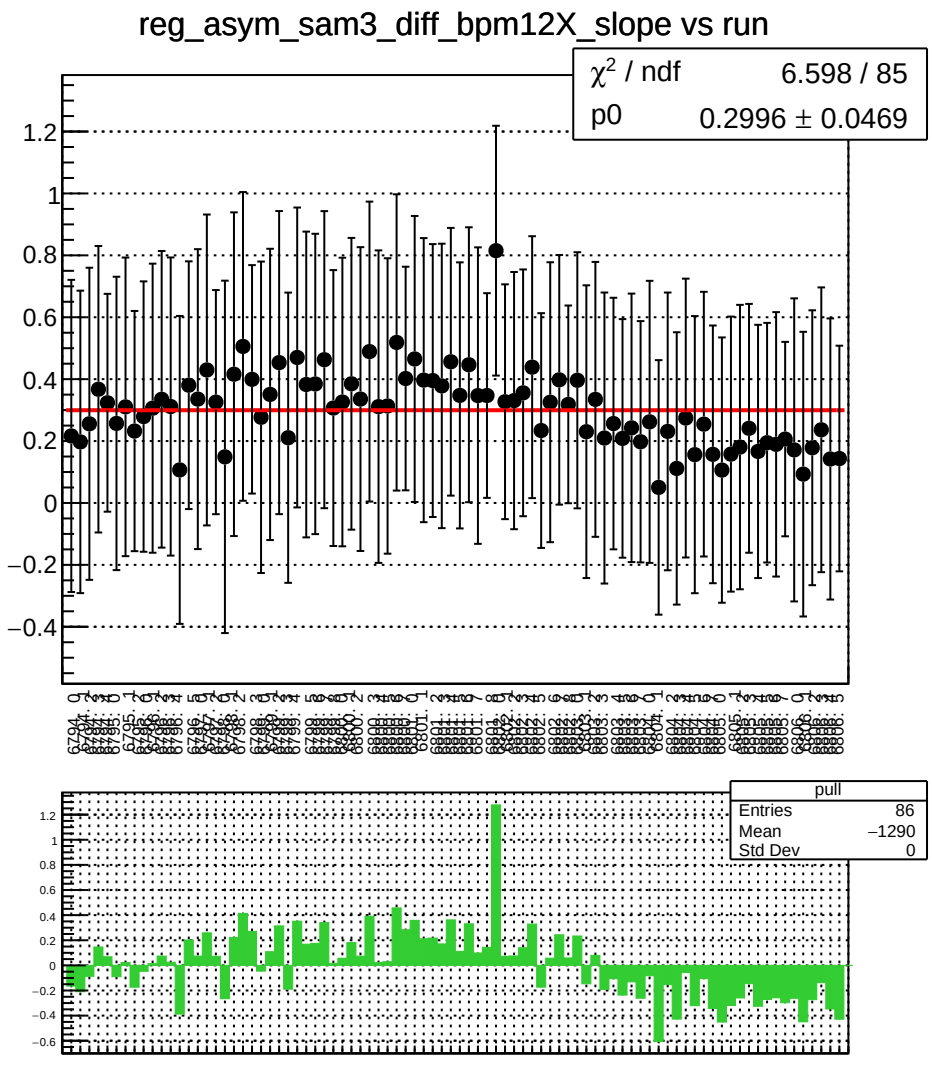

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 11.62 / 85
p0 −10.01 ± 0.5834
pull
Entries 86
Mean 350.2
Std Dev 0
pull1D
Entries 86
Mean −0.02008
Std Dev 0.367

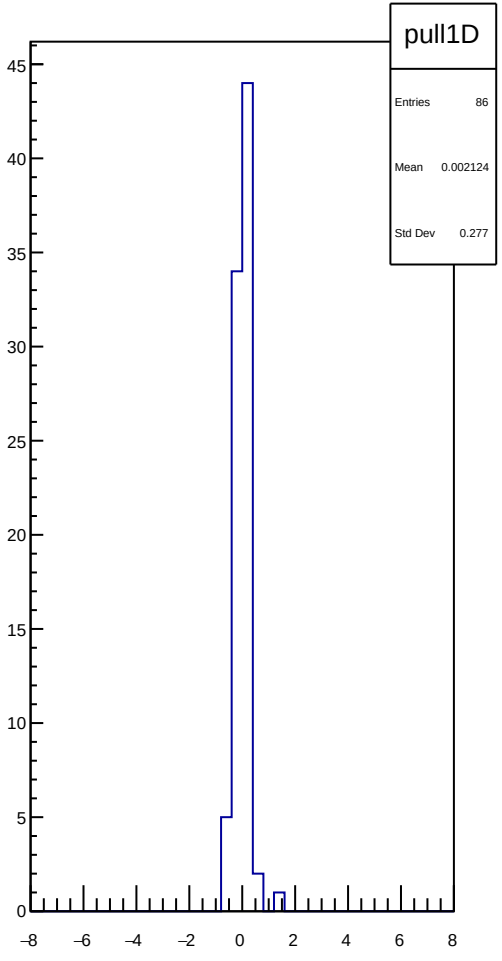

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 70.07 / 85
p0 −80.86 ± 1.155
−40
−60
−80
−100
−120
pull
Entries 86
Mean −191.6
Std Dev 0
2
1
0
−1
−2

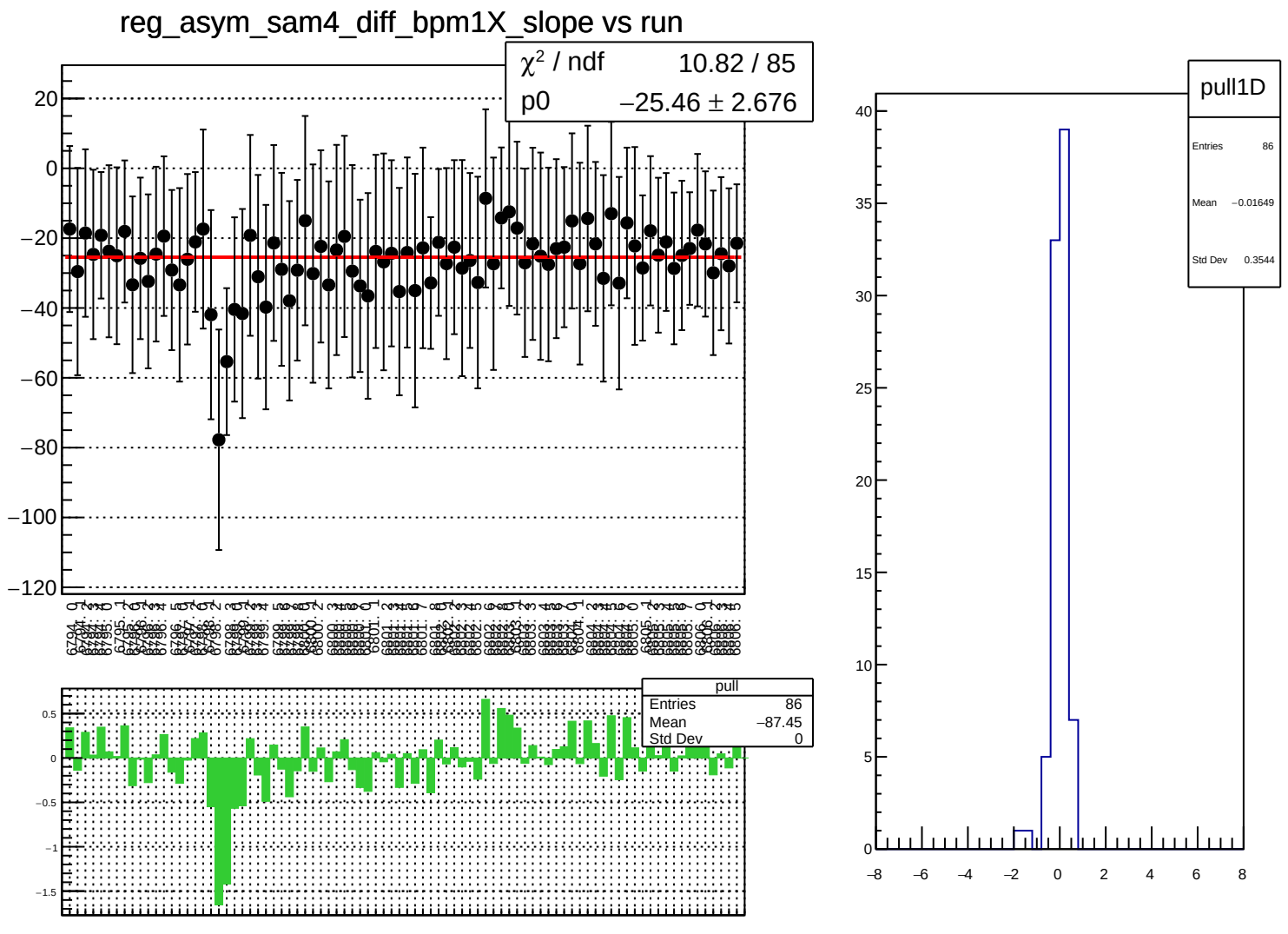

pull1D
Entries 86
Mean 0.03022
Std Dev 0.9021
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

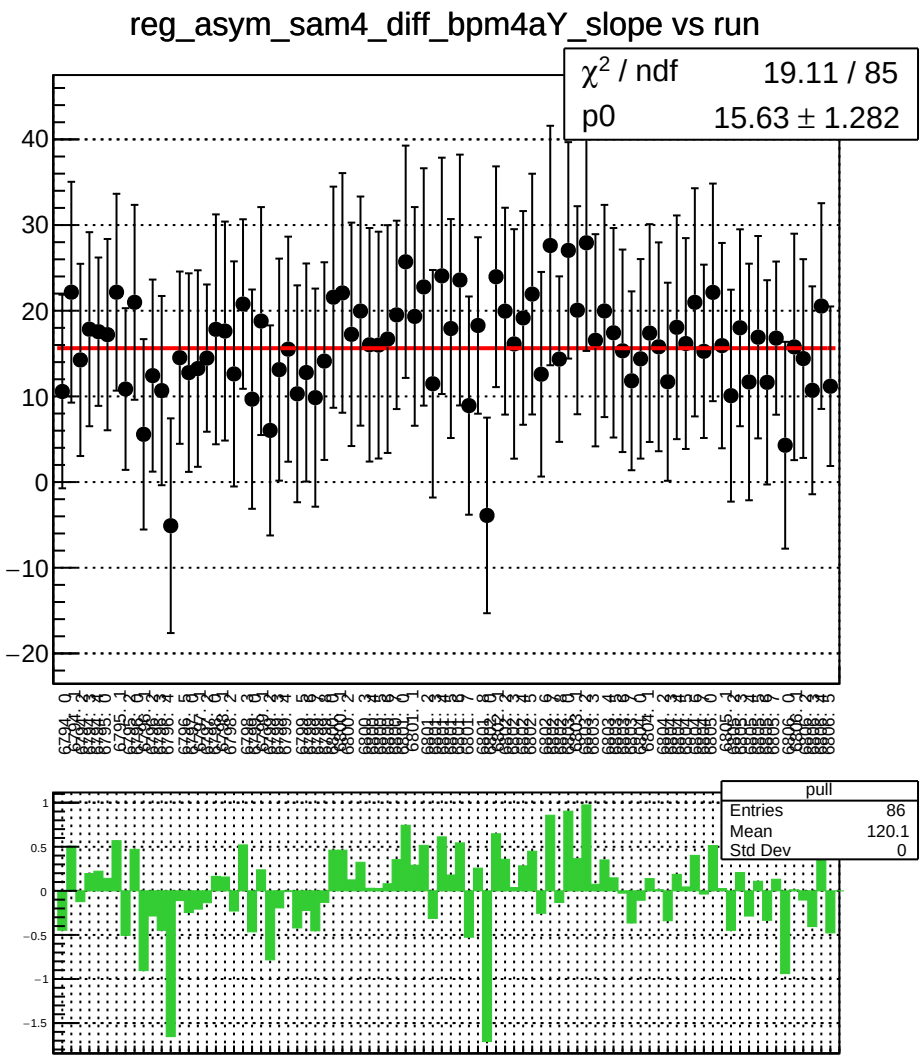

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 13.62 / 85
p0 36.21 ± 0.8125
pull
Entries 86
Mean 424.8
Std Dev 0

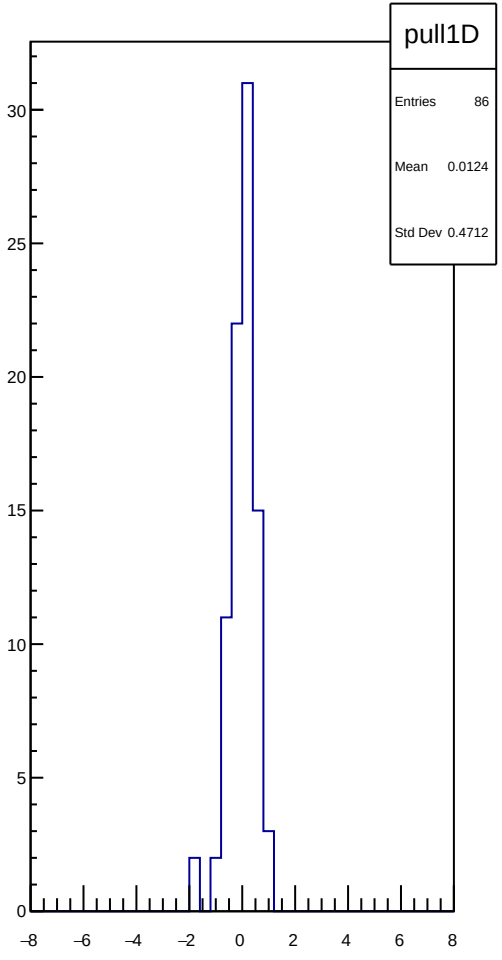

pull1D
Entries 86
Mean 0.01885
Std Dev 0.3975

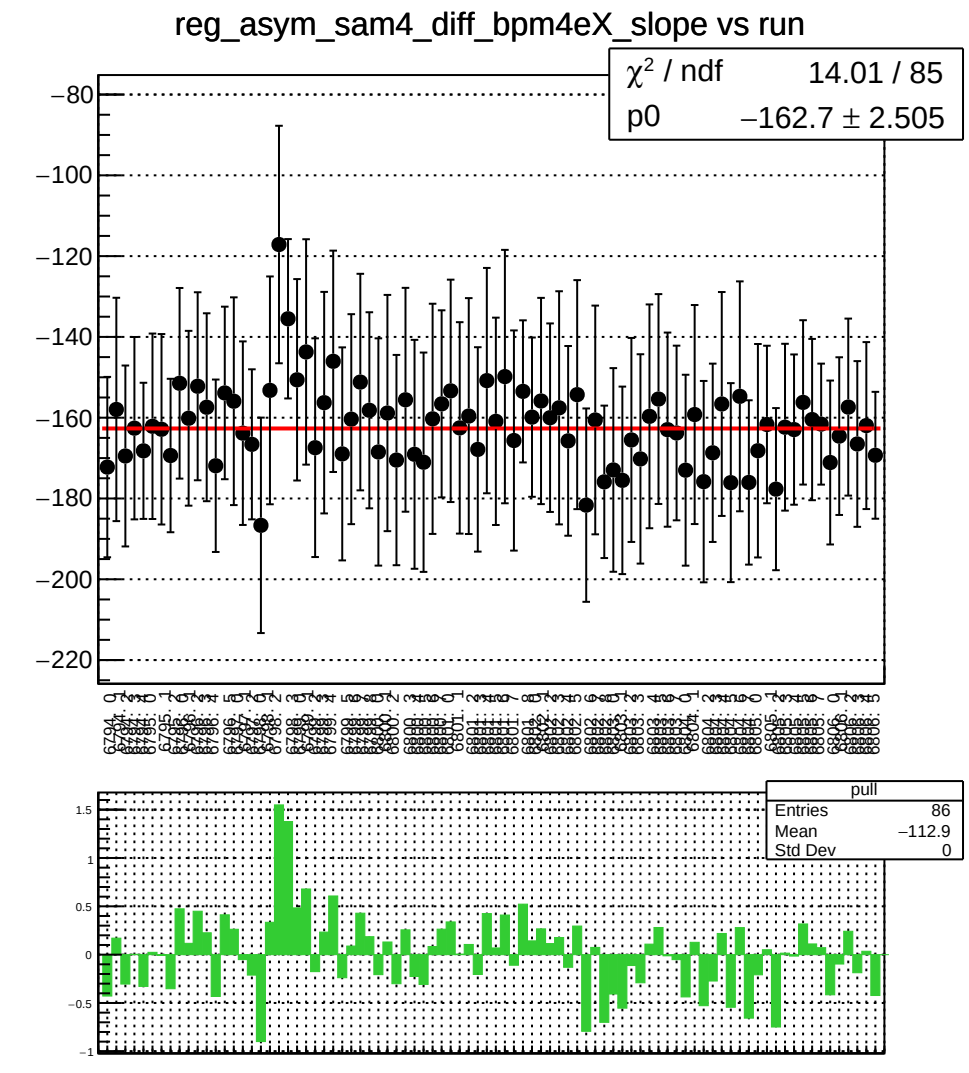

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 6.598 / 85
p0 0.2996 ± 0.0469
pull
Entries 86
Mean −1290
Std Dev 0

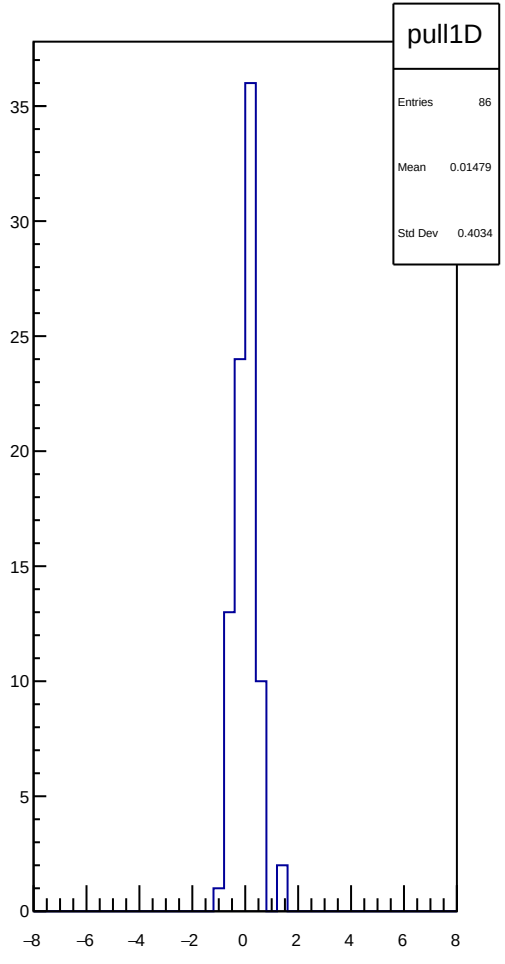

pull1D
Entries 86
Mean 0.002124
Std Dev 0.277

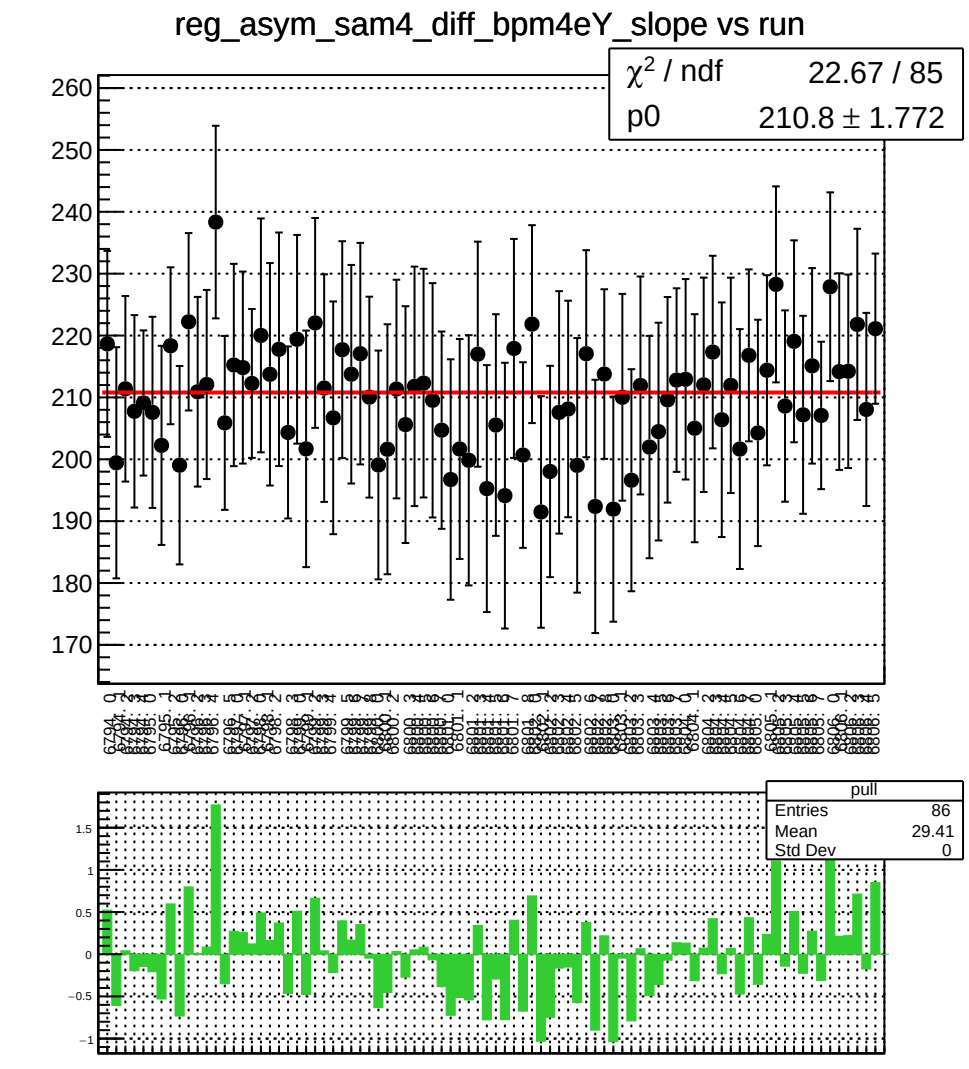

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 10.82 / 85
p0 −25.46 ± 2.676
pull
Entries 86
Mean −87.45
Std Dev 0
pull1D
Entries 86
Mean −0.01649
Std Dev 0.3544

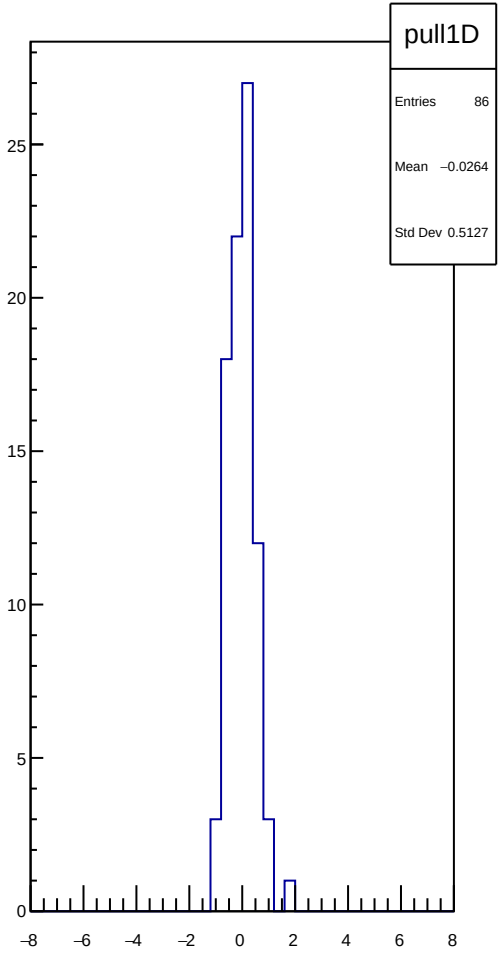

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 19.11 / 85
p0 15.63 ± 1.282
pull
Entries 86
Mean 120.1
Std Dev 0

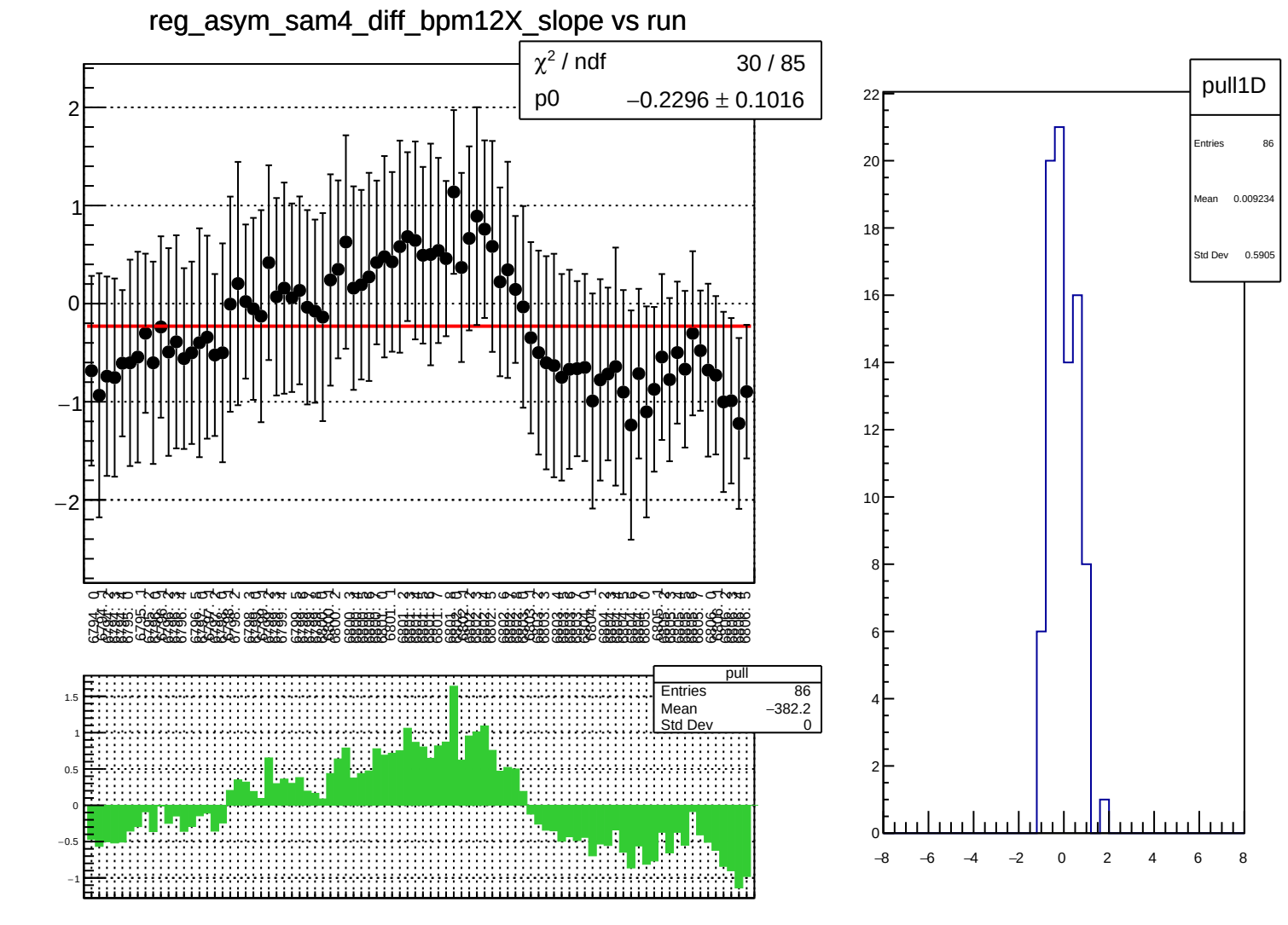

pull1D
Entries 86
Mean 0.0124
Std Dev 0.4712

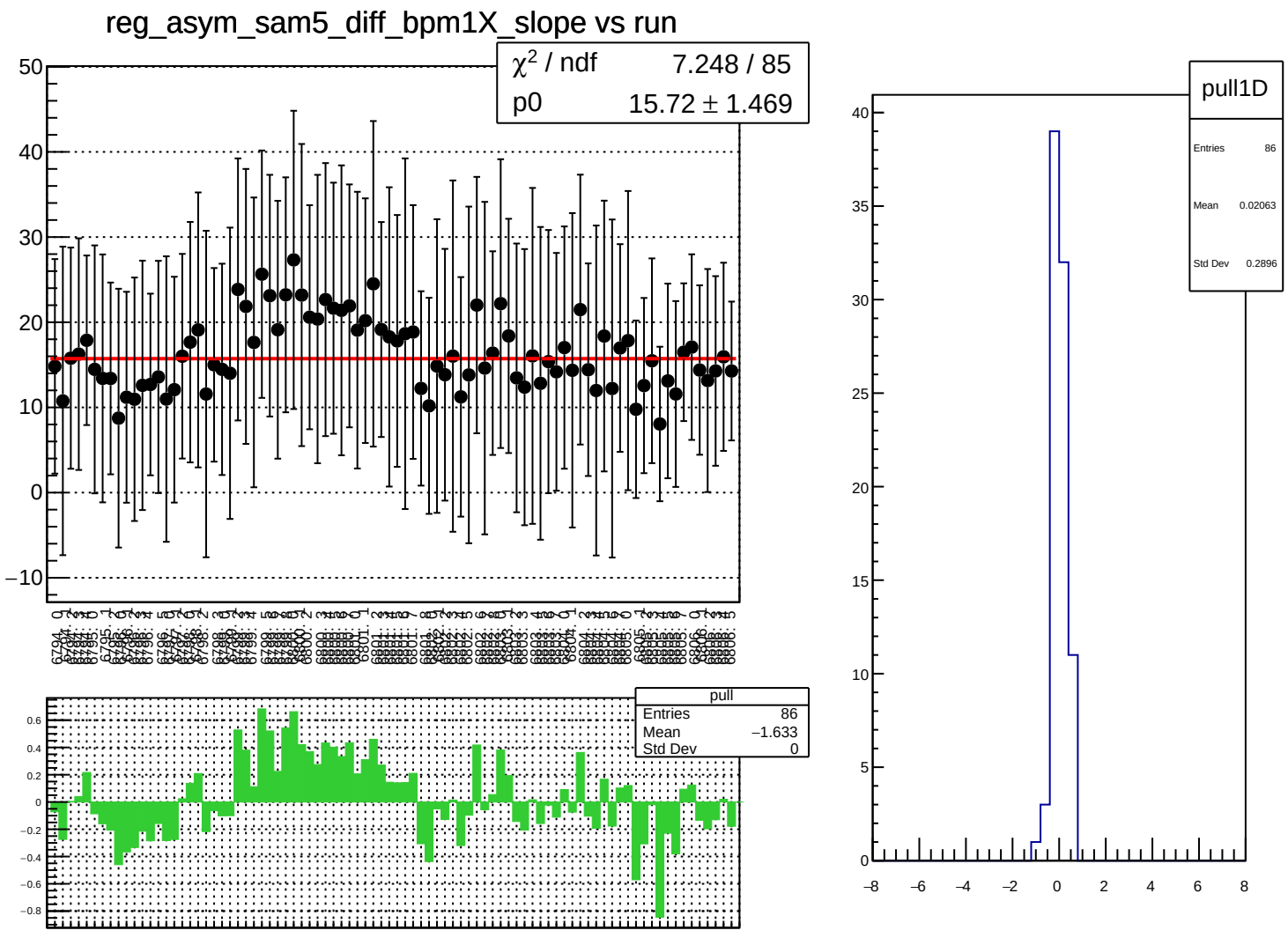

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 14.01 / 85
p0 −162.7 ± 2.505
pull
Entries 86
Mean −112.9
Std Dev 0

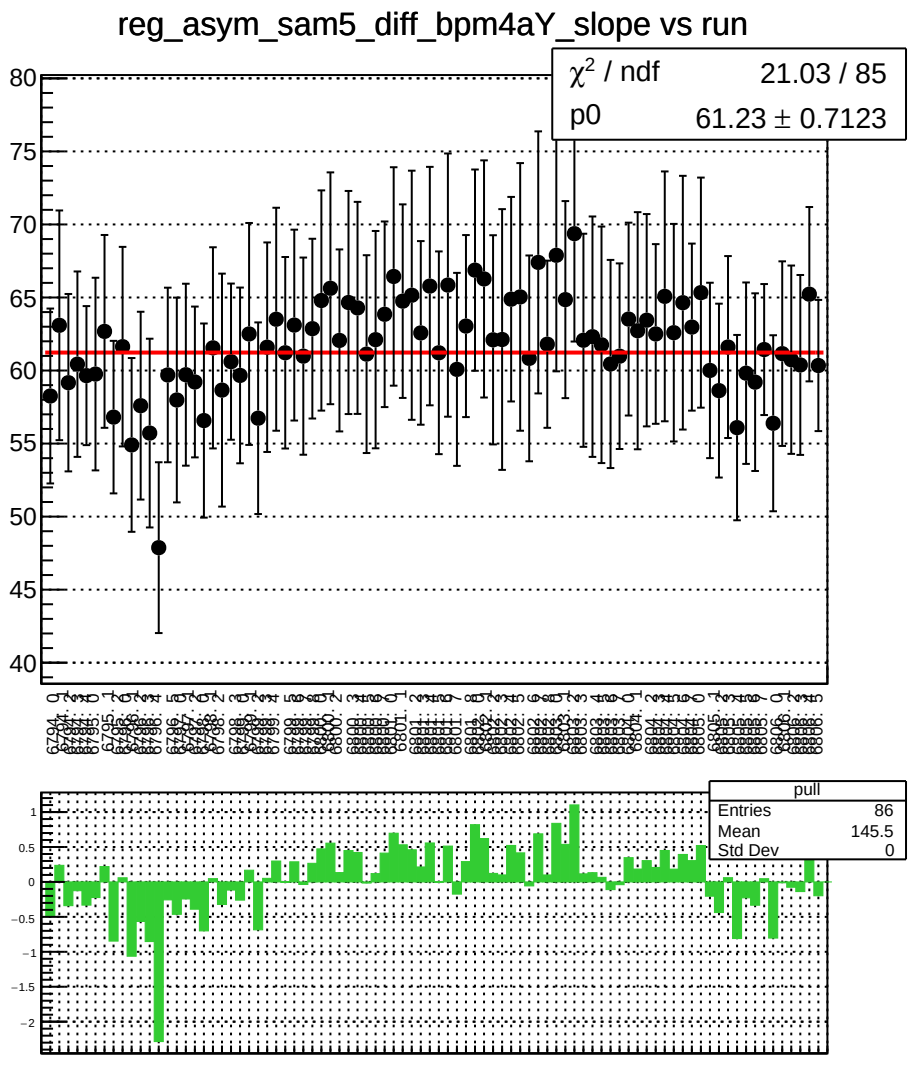

pull1D
Entries 86
Mean 0.01479
Std Dev 0.4034

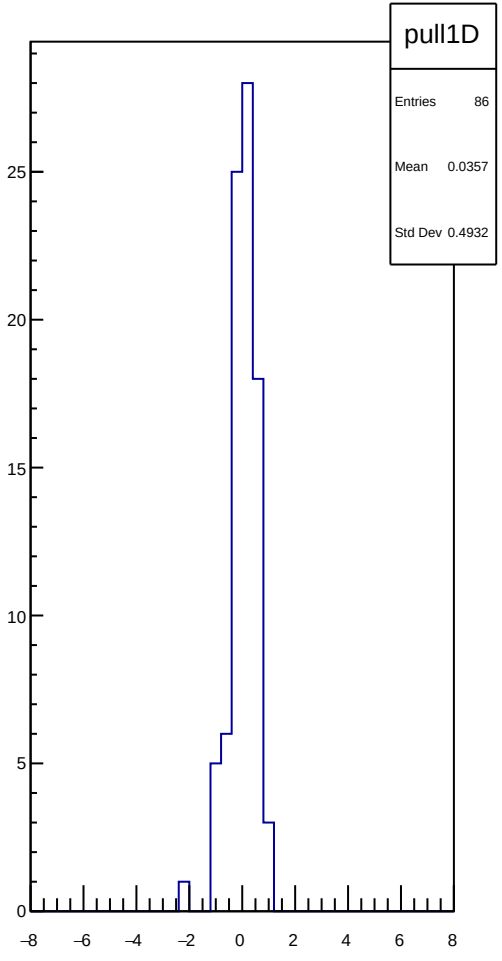

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 22.67 / 85
p0 210.8 ± 1.772
pull
Entries 86
Mean 29.41
Std Dev 0

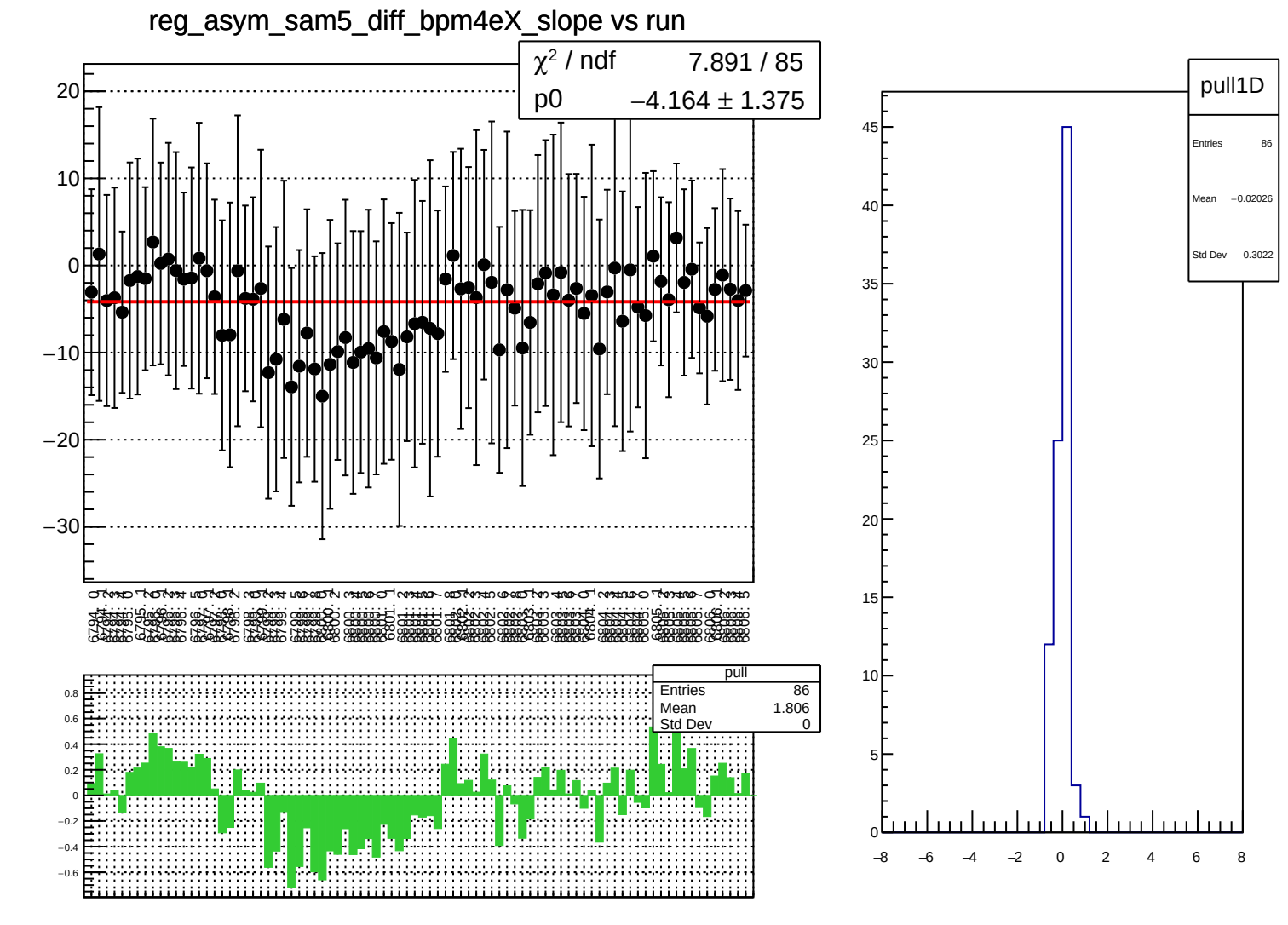

pull1D
Entries 86
Mean −0.0264
Std Dev 0.5127

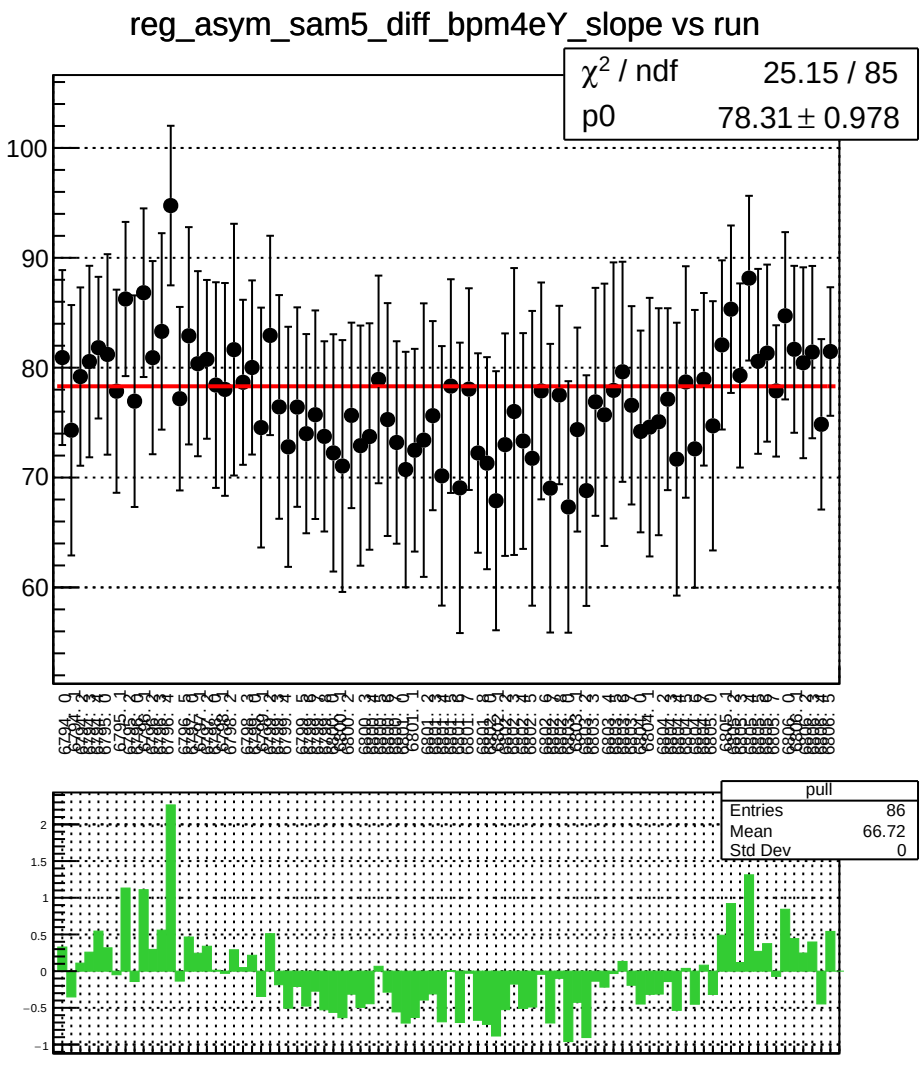

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 30 / 85
p0 −0.2296 ± 0.1016
pull
Entries 86
Mean −382.2
Std Dev 0
pull1D
Entries 86
Mean 0.009234
Std Dev 0.5905

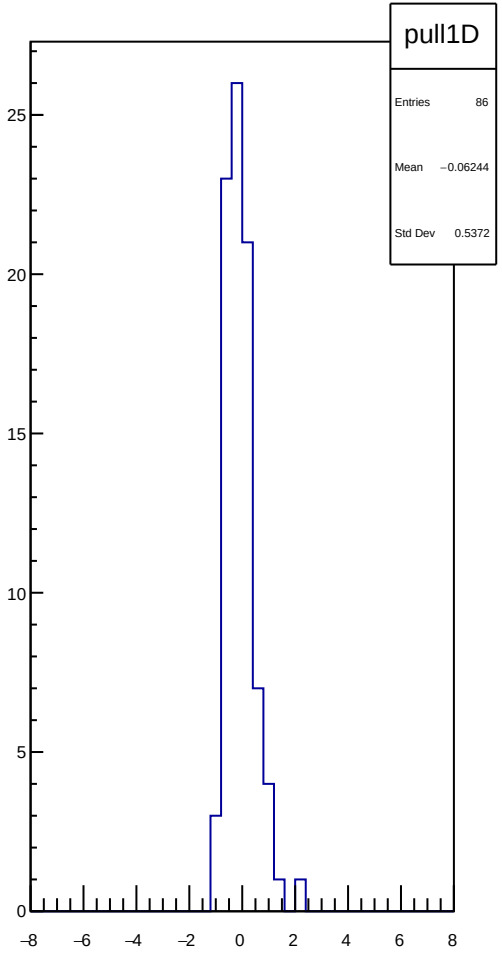

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.248 / 85
p0 15.72 ± 1.469
pull
Entries 86
Mean −1.633
Std Dev 0
pull1D
Entries 86
Mean 0.02063
Std Dev 0.2896

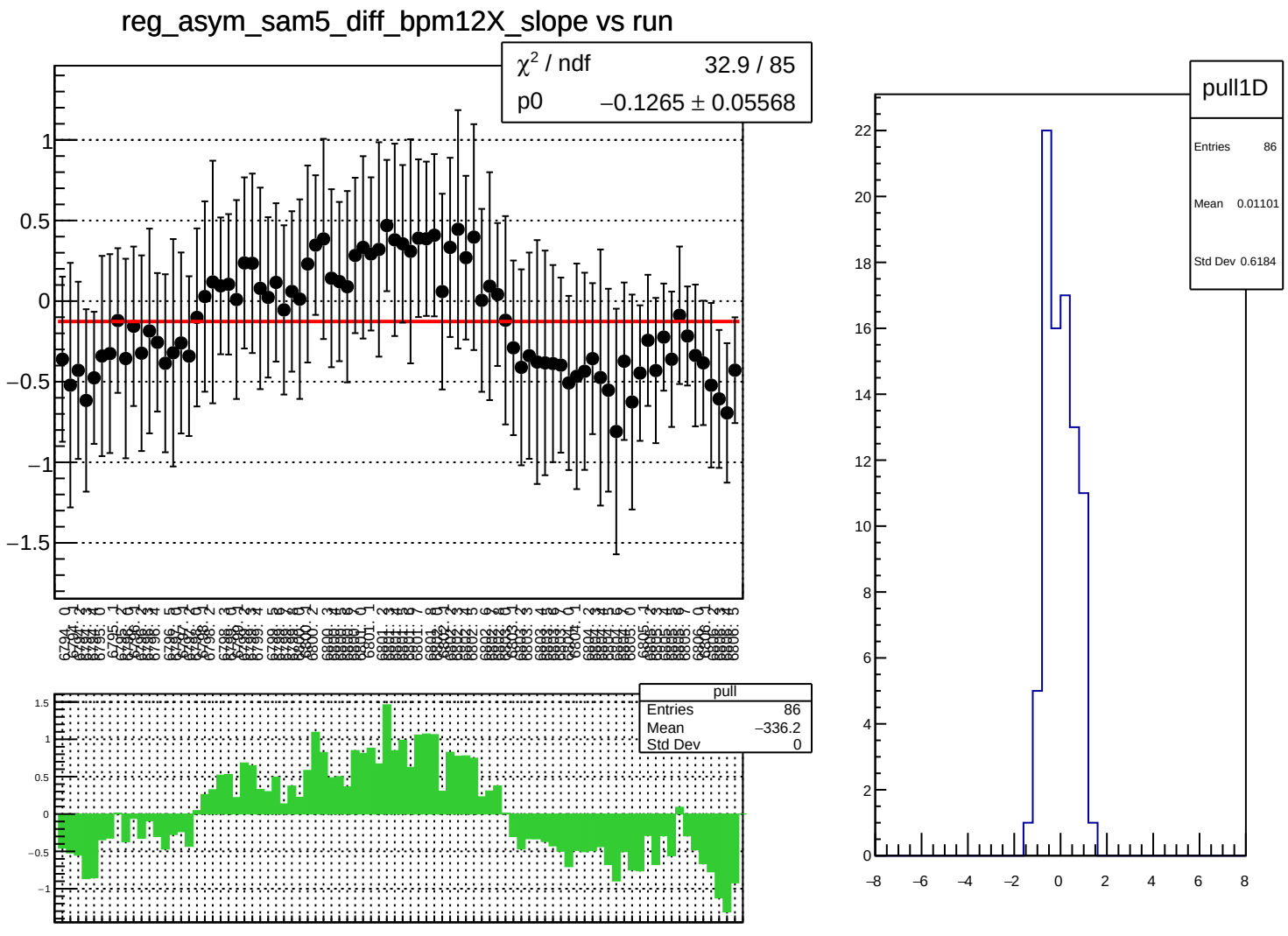

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 21.03 / 85
p0 61.23 ± 0.7123
pull
Entries 86
Mean 145.5
Std Dev 0

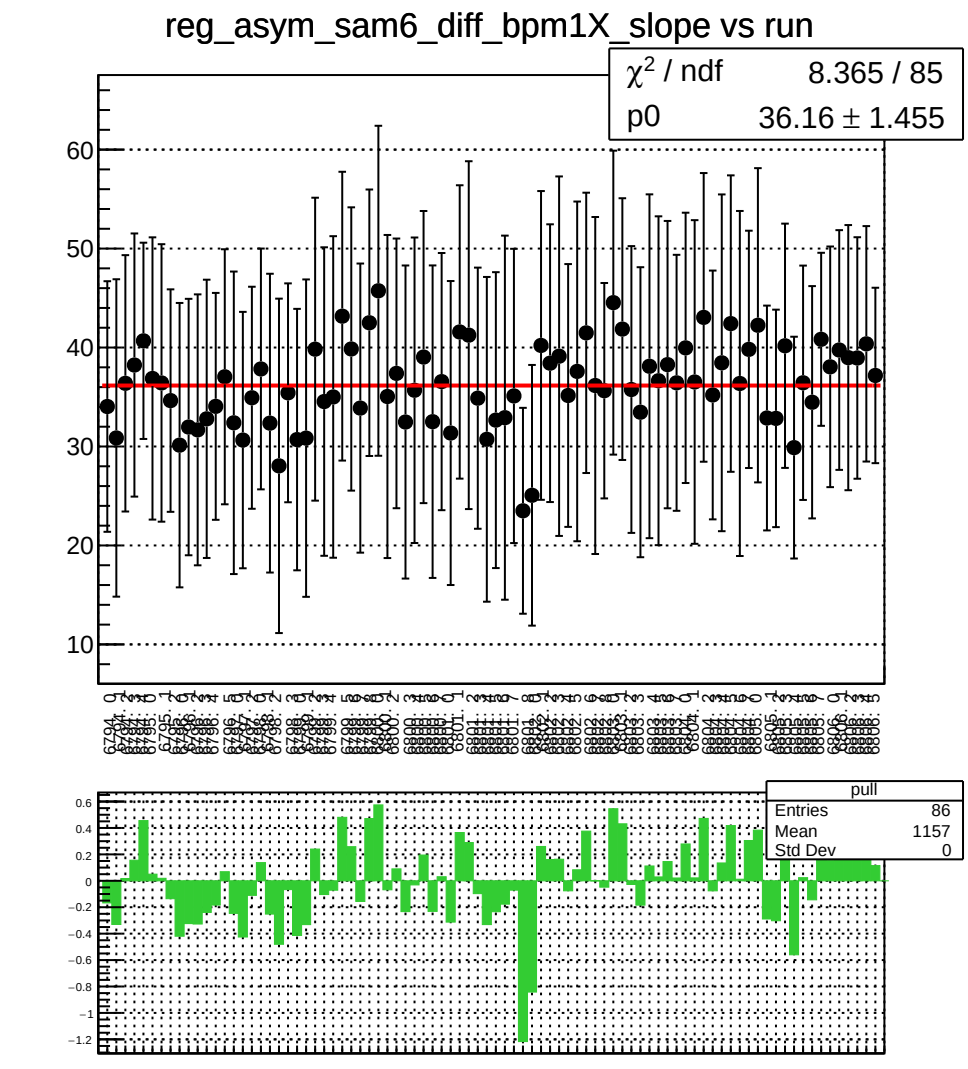

pull1D
Entries 86
Mean 0.0357
Std Dev 0.4932

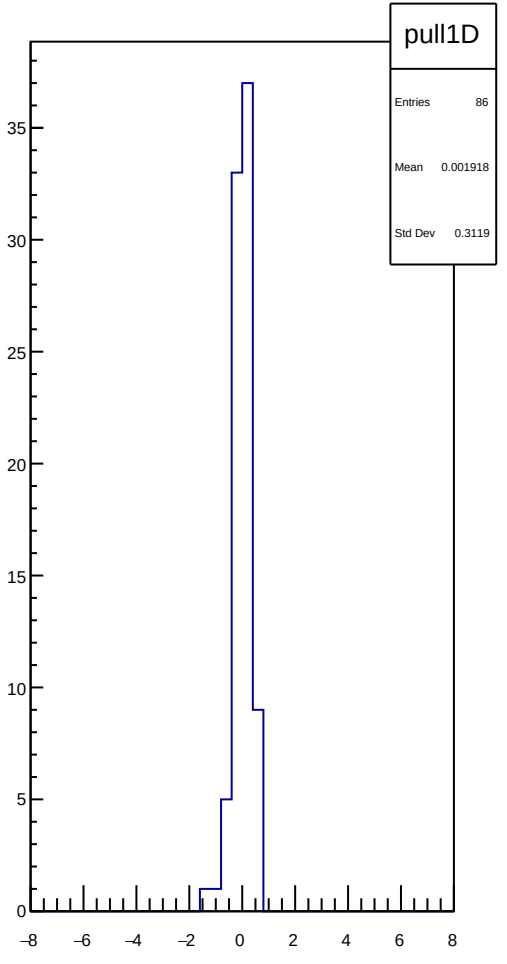

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.891 / 85
p0 −4.164 ± 1.375
pull
Entries 86
Mean 1.806
Std Dev 0
pull1D
Entries 86
Mean −0.02026
Std Dev 0.3022

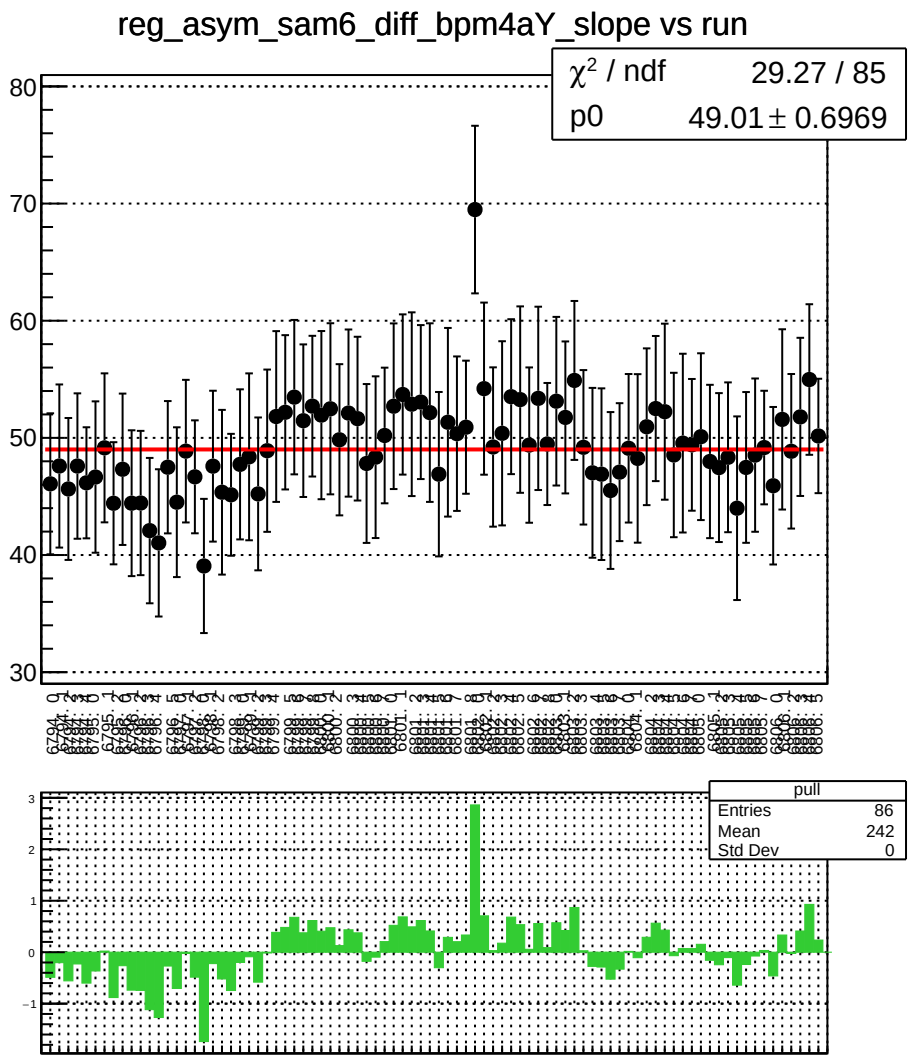

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 25.15 / 85
p0 78.31 ± 0.978
pull
Entries 86
Mean 66.72
Std Dev 0

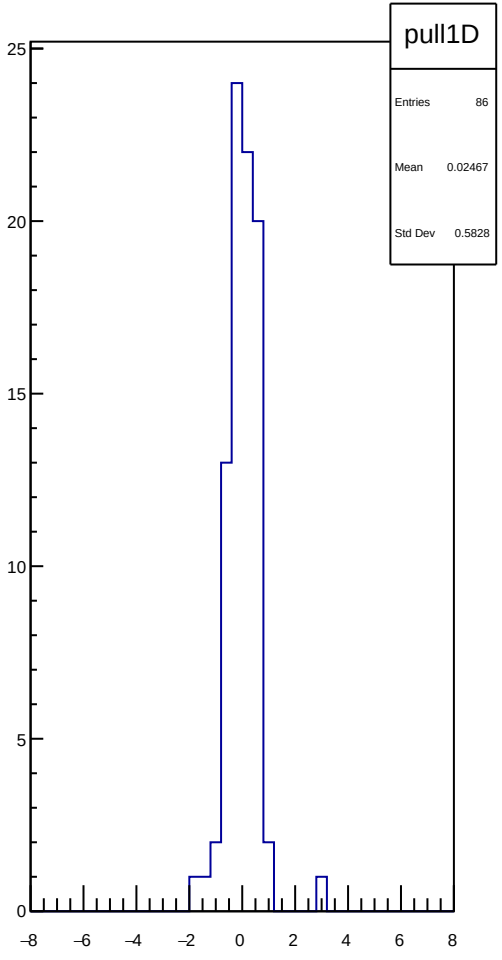

pull1D
Entries 86
Mean −0.06244
Std Dev 0.5372

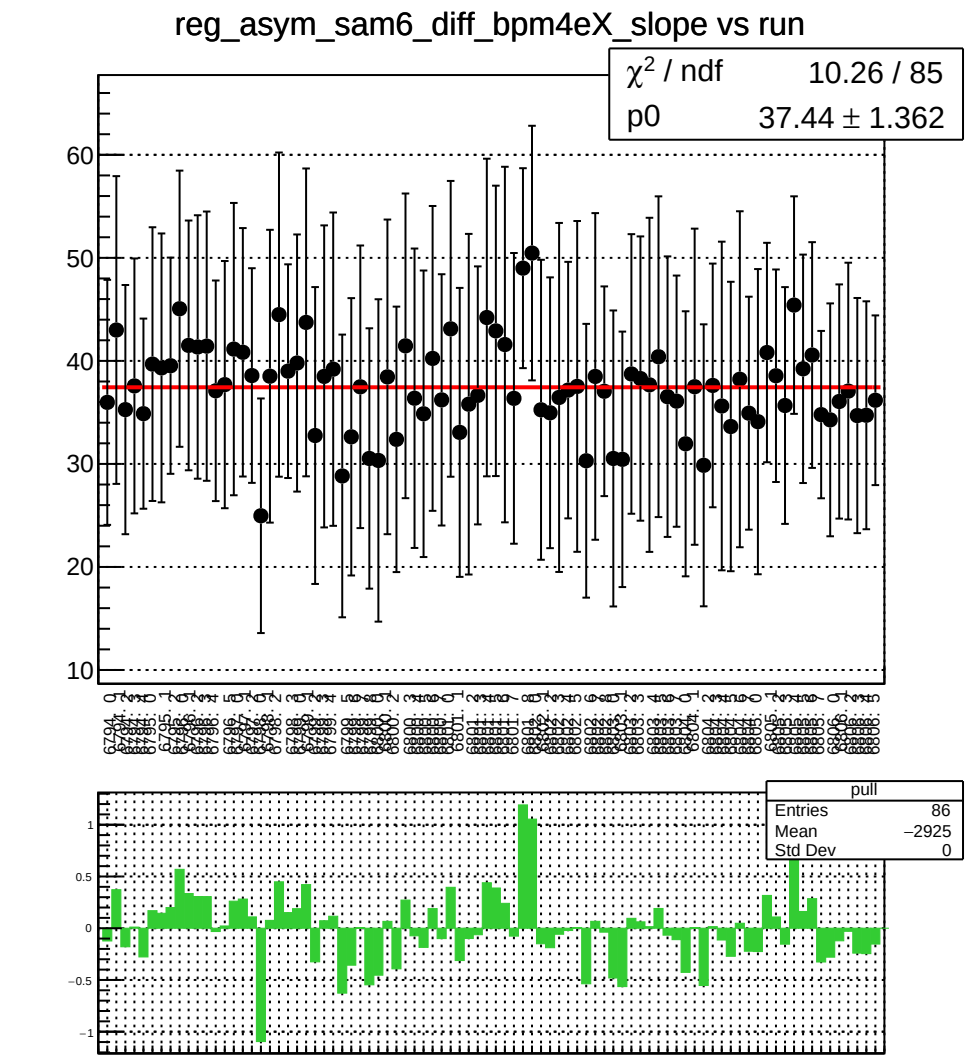

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 32.9 / 85
p0 −0.1265 ± 0.05568
pull
Entries 86
Mean −336.2
Std Dev 0
pull1D
Entries 86
Mean 0.01101
Std Dev 0.6184

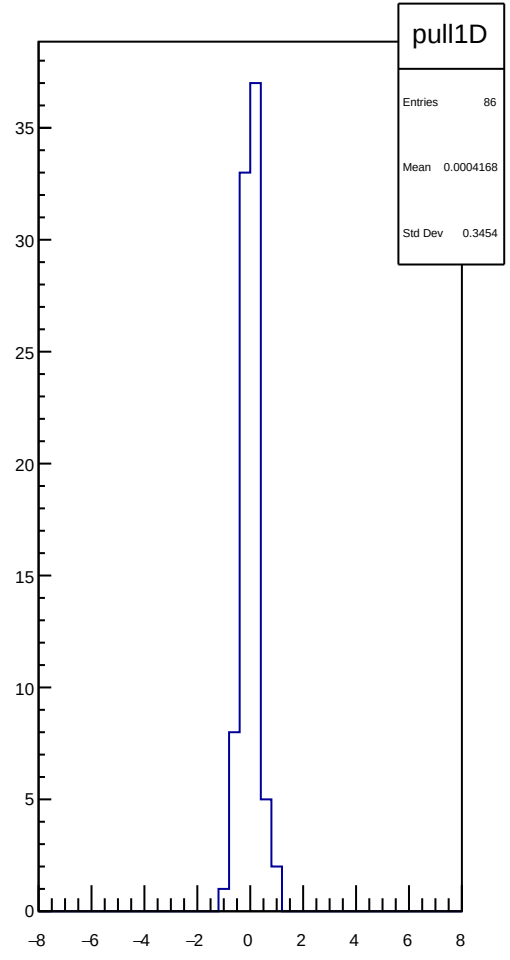

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 8.365 / 85
p0 36.16 ± 1.455
pull
Entries 86
Mean 1157
Std Dev 0

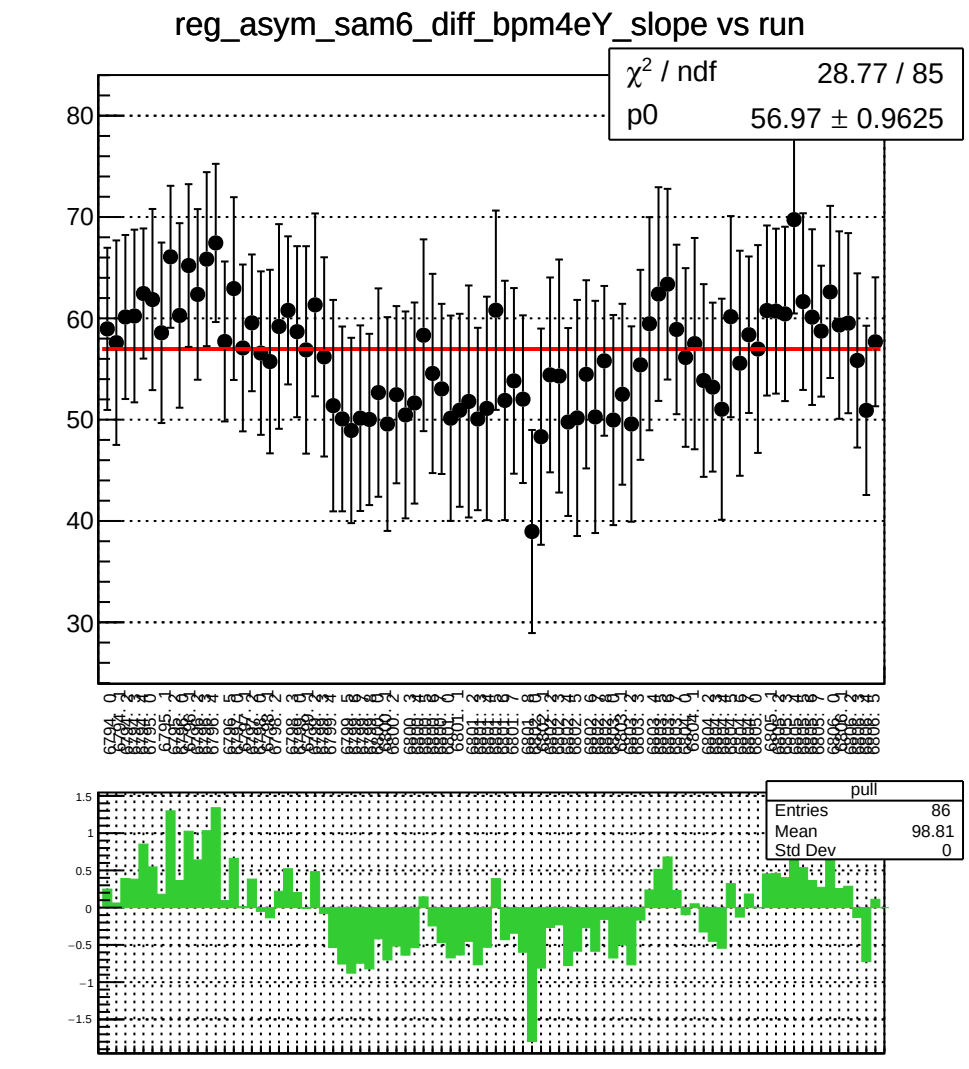

pull1D
Entries 86
Mean 0.001918
Std Dev 0.3119

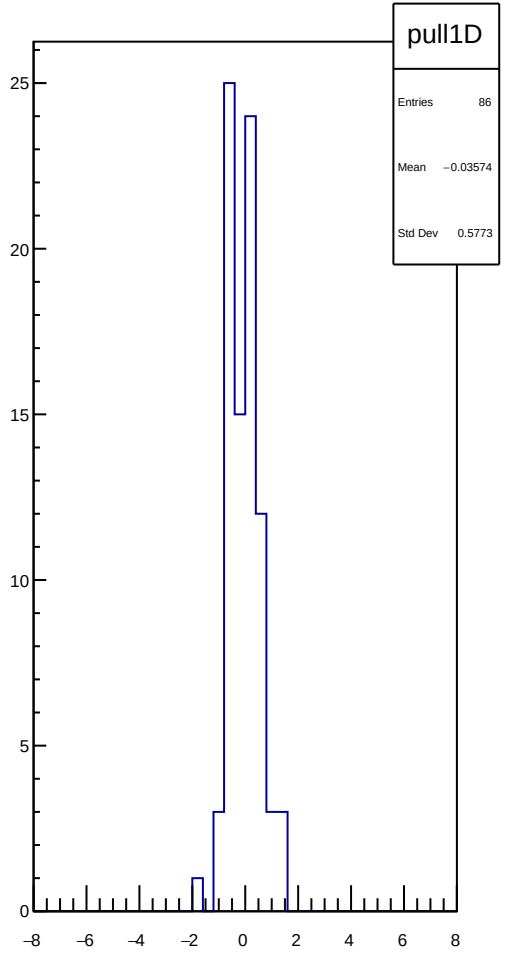

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 29.27 / 85
p0 49.01 ± 0.6969
pull
Entries 86
Mean 242
Std Dev 0

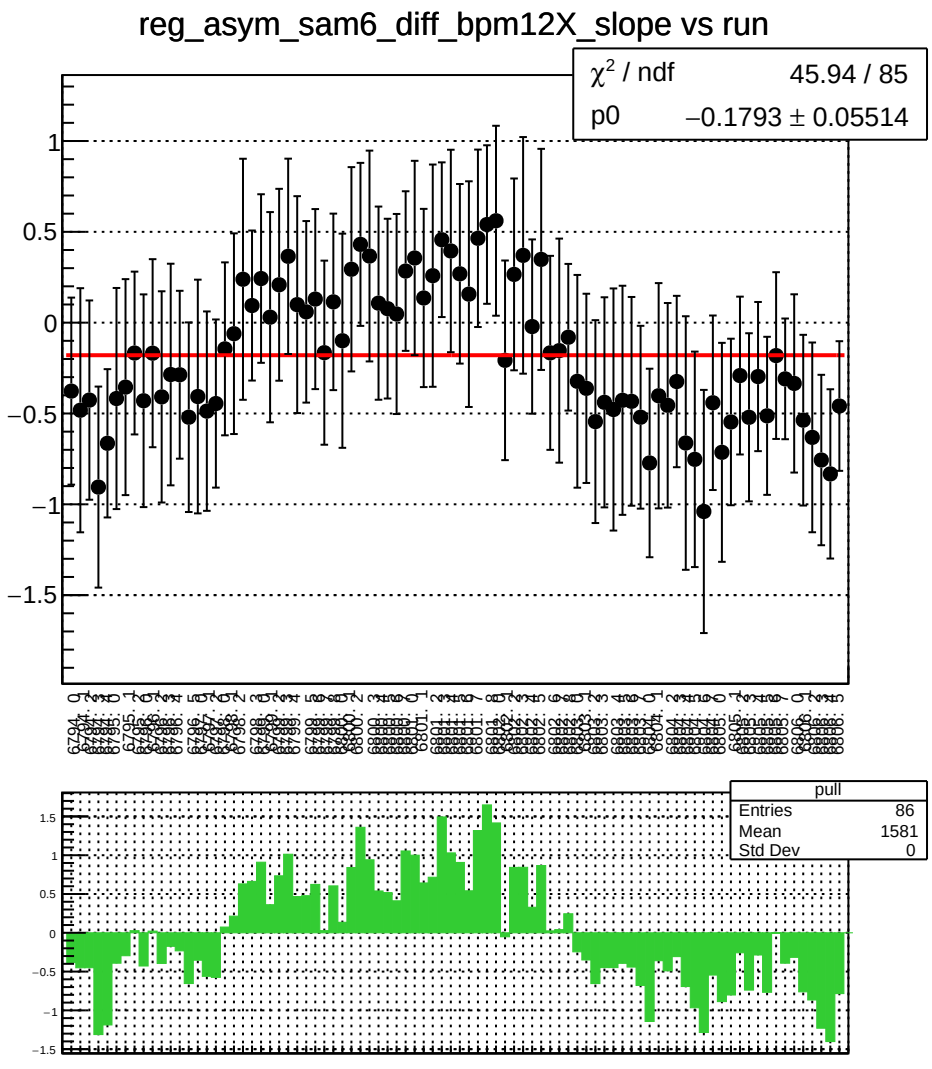

pull1D
Entries 86
Mean 0.02467
Std Dev 0.5828

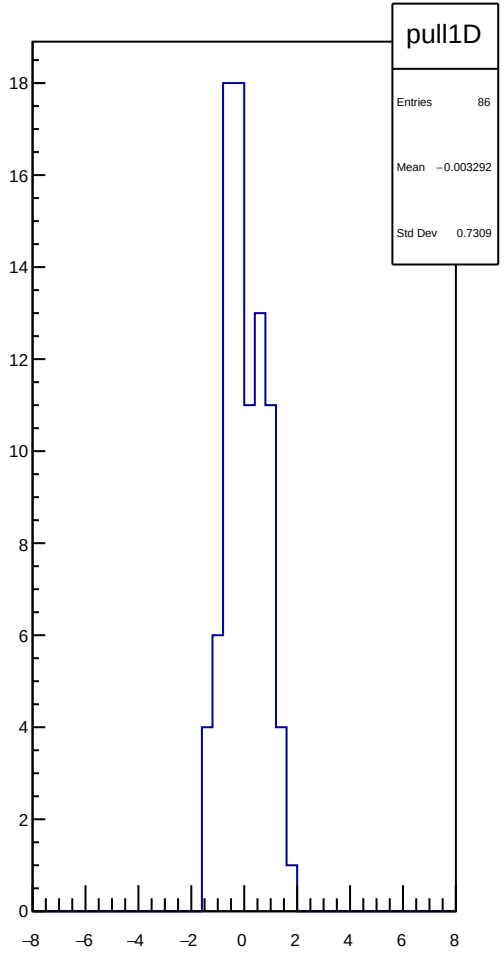

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 10.26 / 85
p0 37.44 ± 1.362
pull
Entries 86
Mean −2925
Std Dev 0

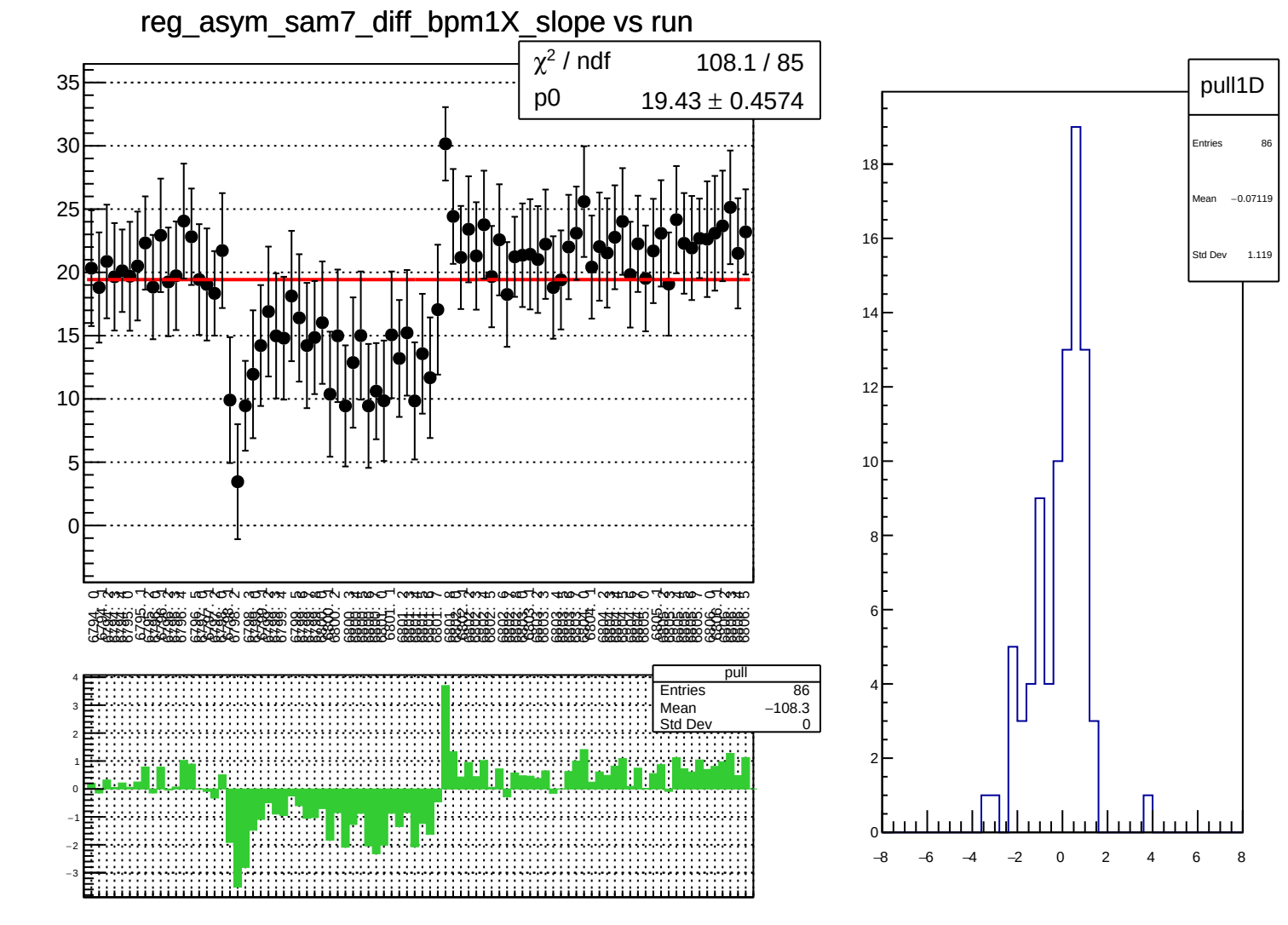

pull1D
Entries 86
Mean 0.0004168
Std Dev 0.3454

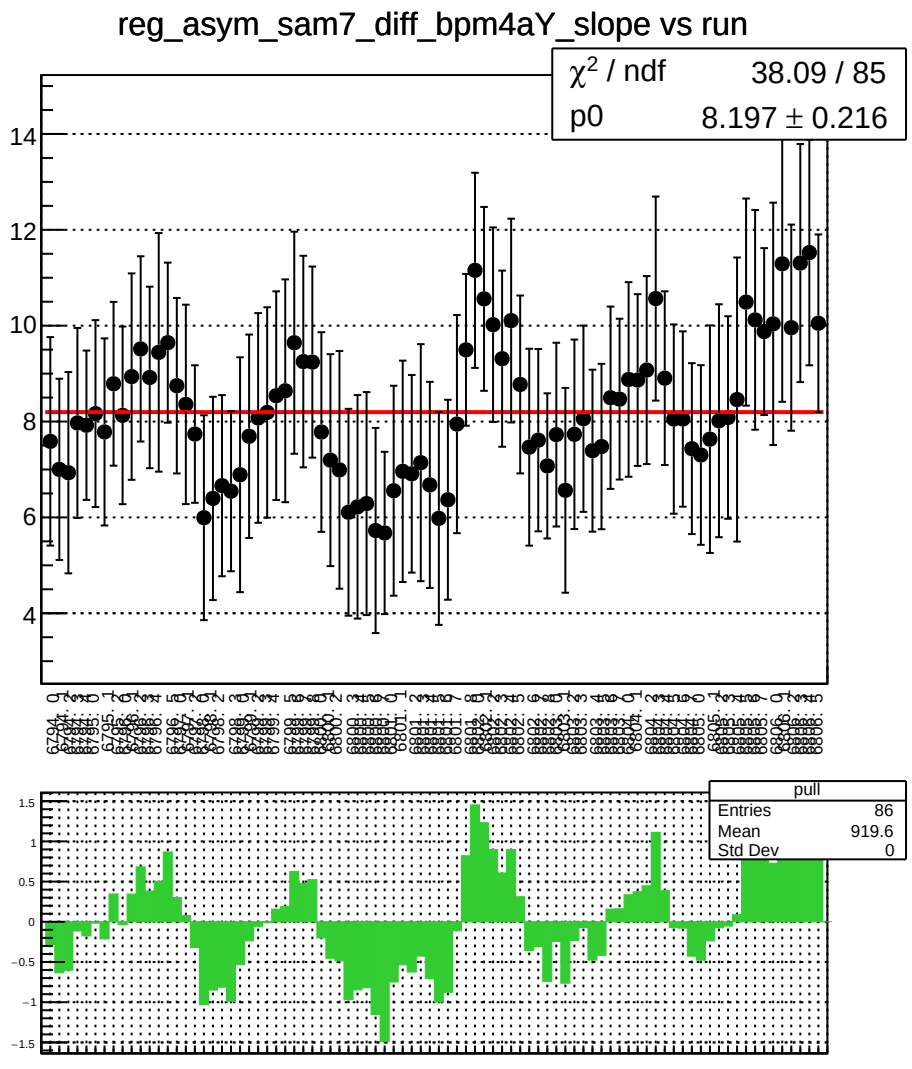

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 28.77 / 85
p0 56.97 ± 0.9625
pull
Entries 86
Mean 98.81
Std Dev 0

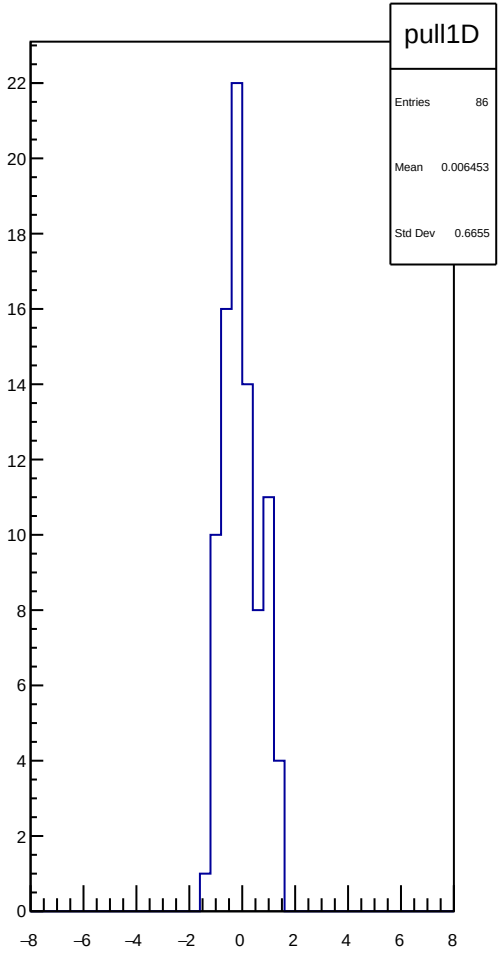

pull1D
Entries 86
Mean −0.03574
Std Dev 0.5773

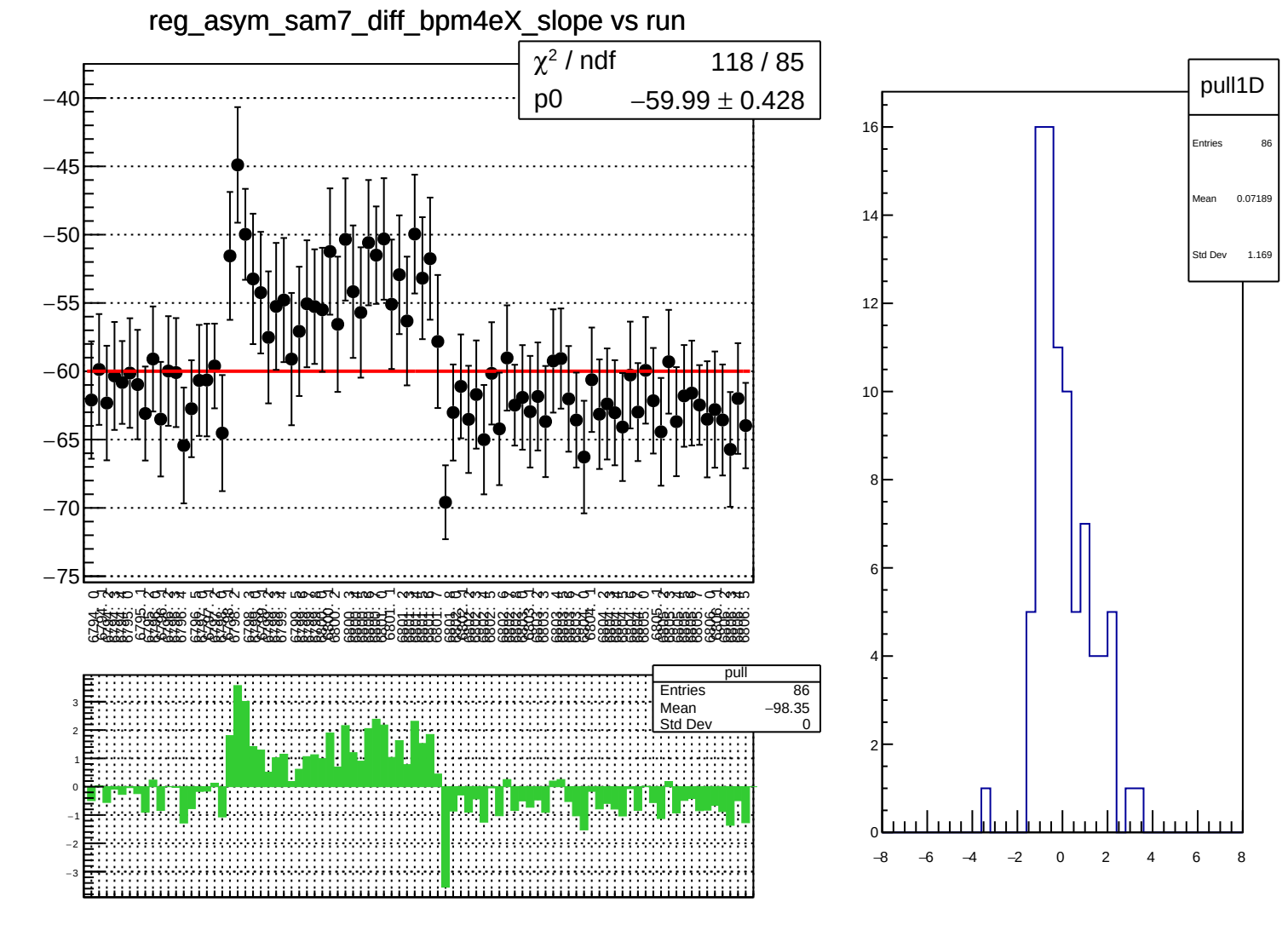

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 45.94 / 85
p0 −0.1793 ± 0.05514
pull
Entries 86
Mean 1581
Std Dev 0

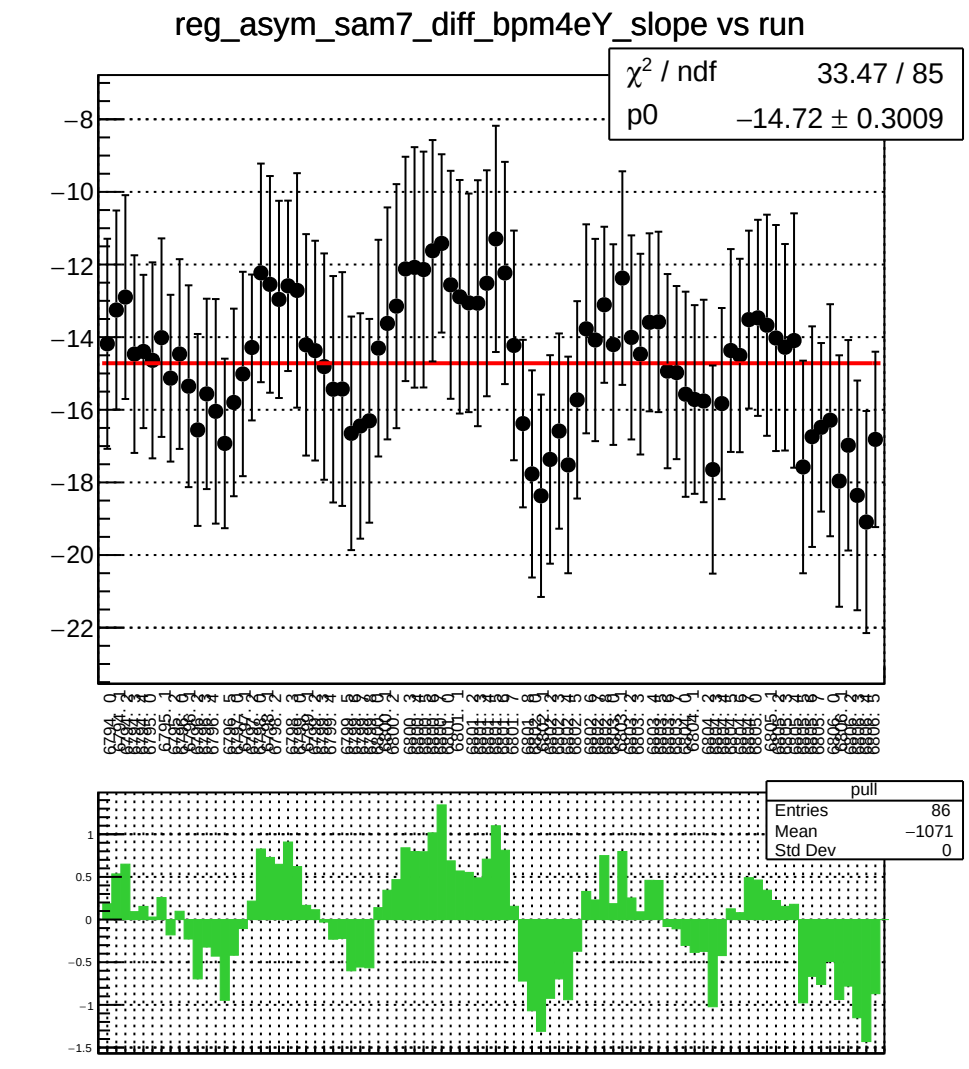

pull1D
Entries 86
Mean −0.003292
Std Dev 0.7309

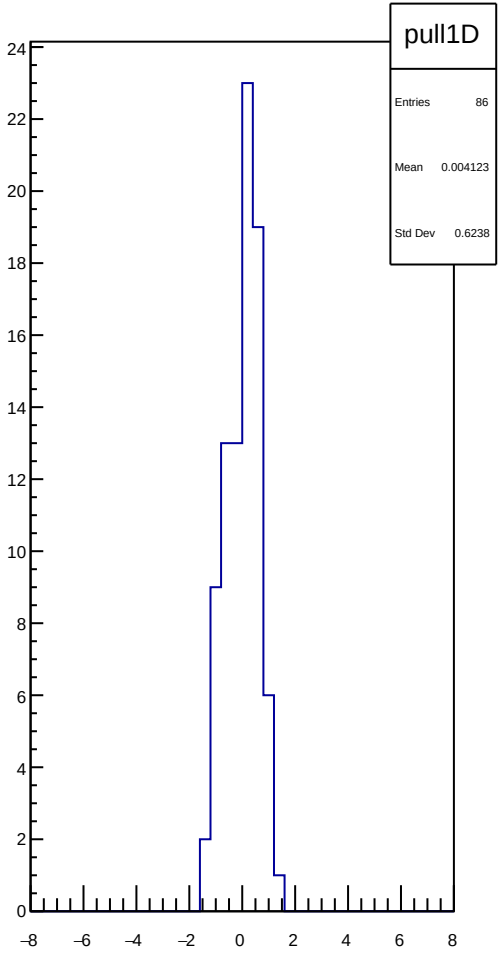

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 108.1 / 85
p0 19.43 ± 0.4574
pull
Entries 86
Mean −108.3
Std Dev 0
pull1D
Entries 86
Mean −0.07119
Std Dev 1.119

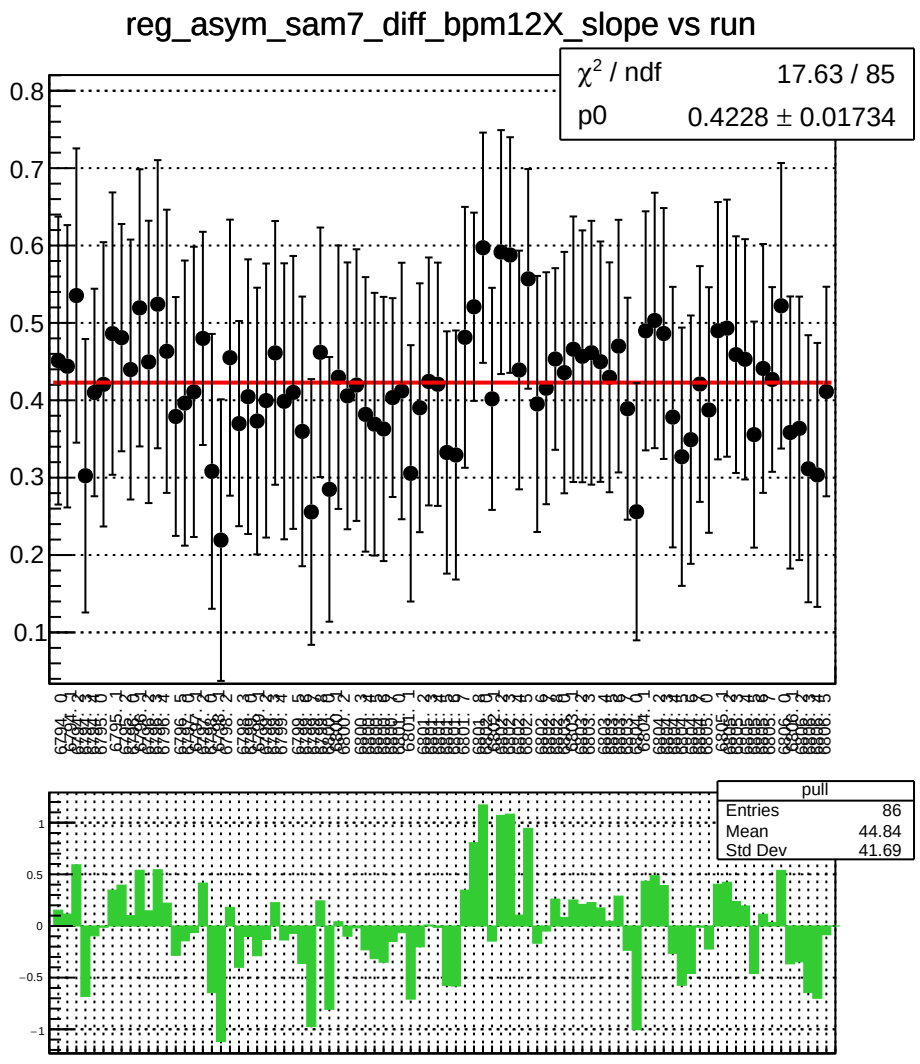

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 38.09 / 85
p0 8.197 ± 0.216
pull
Entries 86
Mean 919.6
Std Dev 0

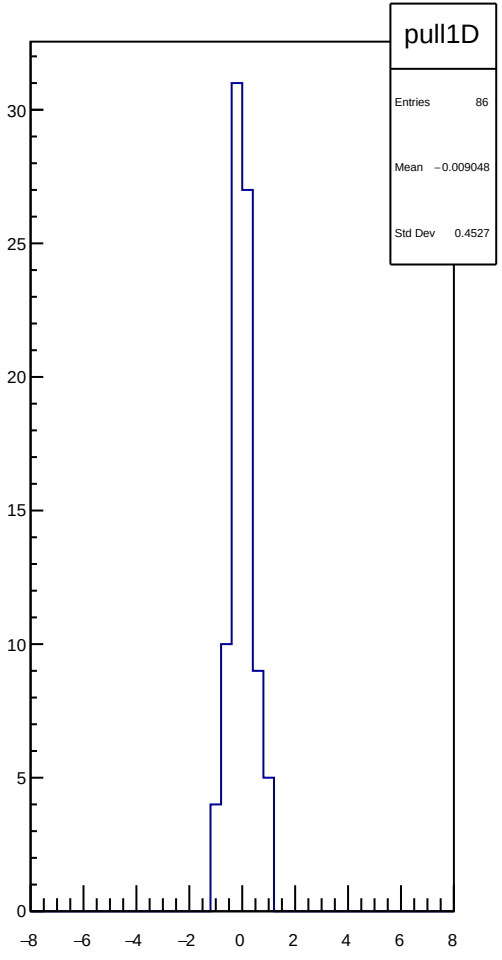

pull1D
Entries 86
Mean 0.006453
Std Dev 0.6655

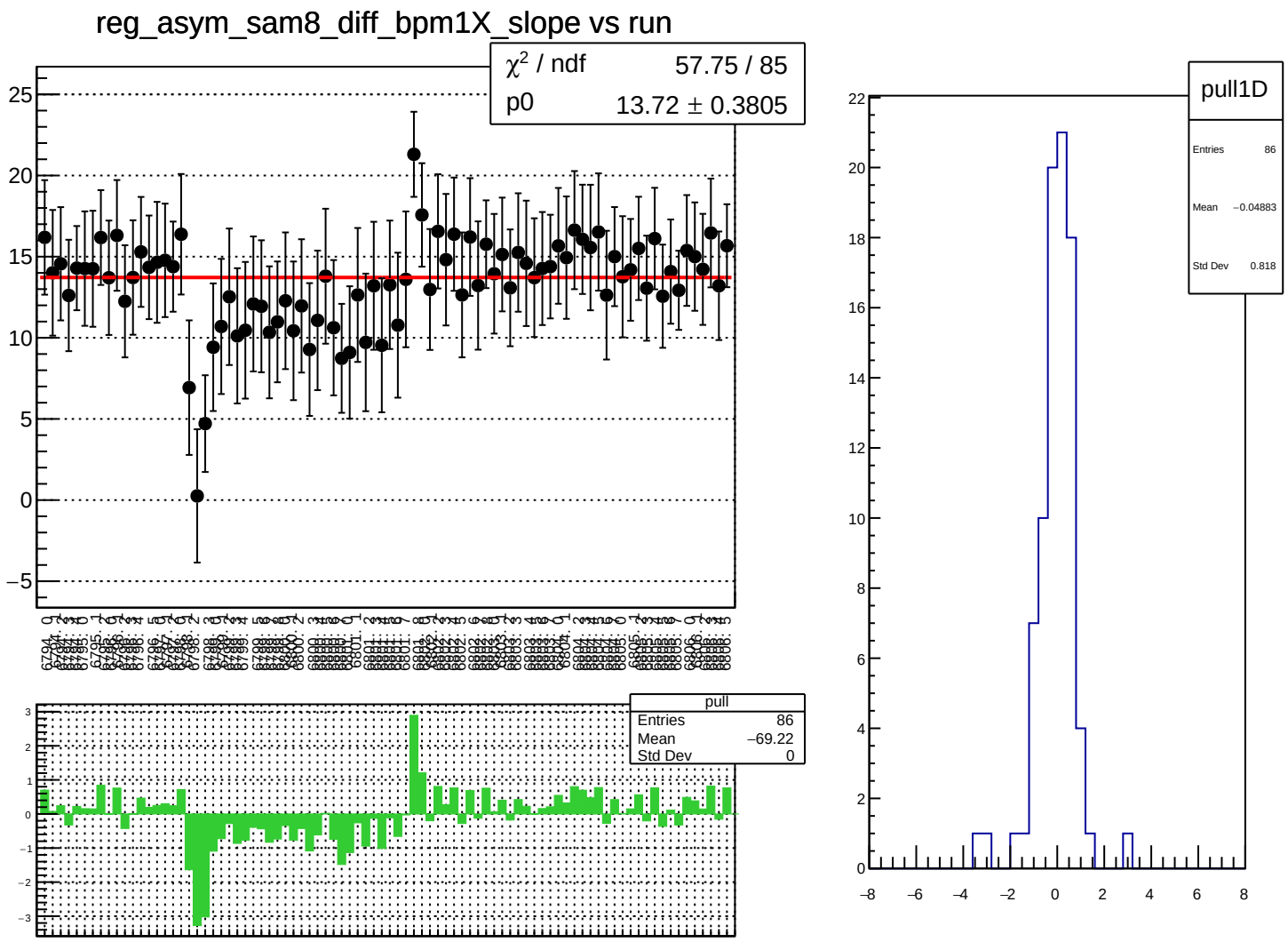

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 118 / 85
p0 −59.99 ± 0.428
pull
Entries 86
Mean −98.35
Std Dev 0
pull1D
Entries 86
Mean 0.07189
Std Dev 1.169

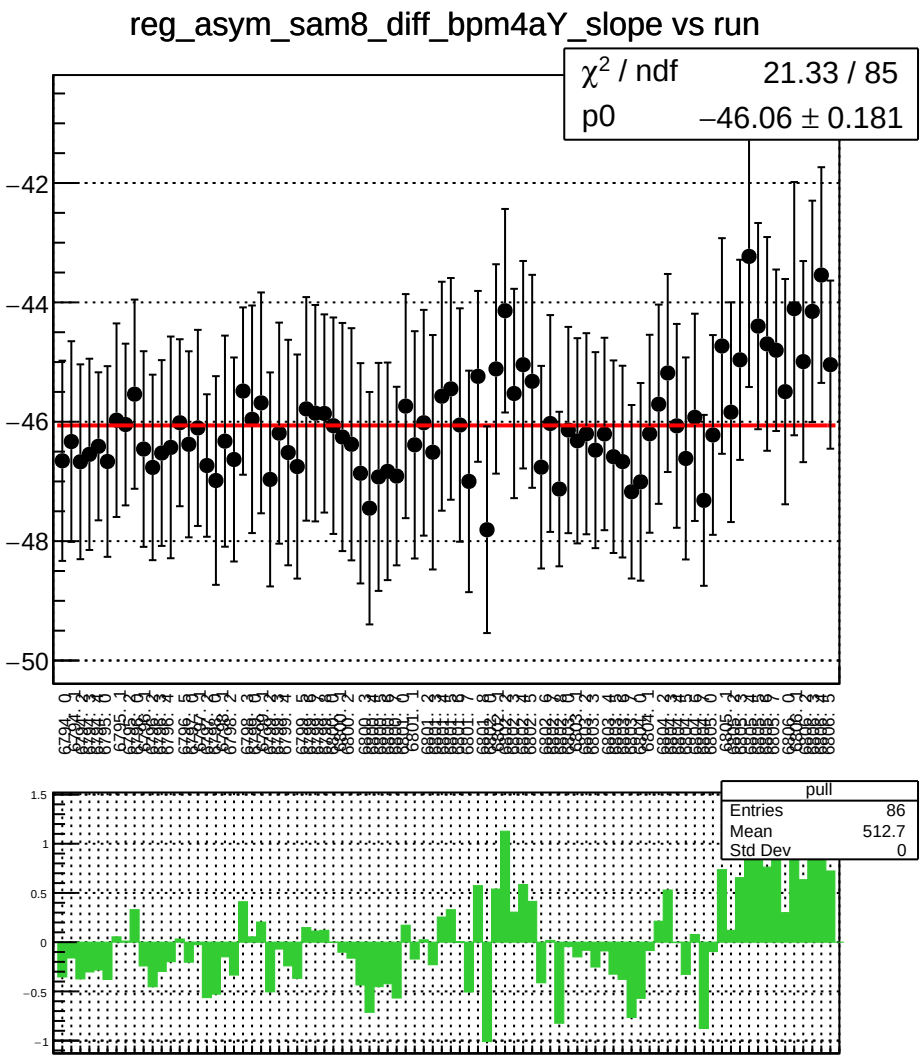

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 33.47 / 85
p0 −14.72 ± 0.3009
pull
Entries 86
Mean −1071
Std Dev 0

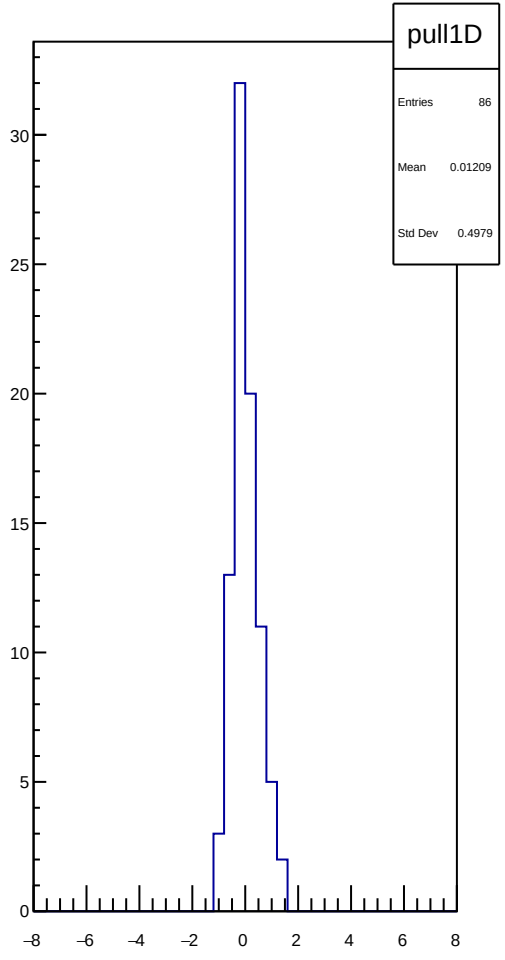

pull1D
Entries 86
Mean 0.004123
Std Dev 0.6238

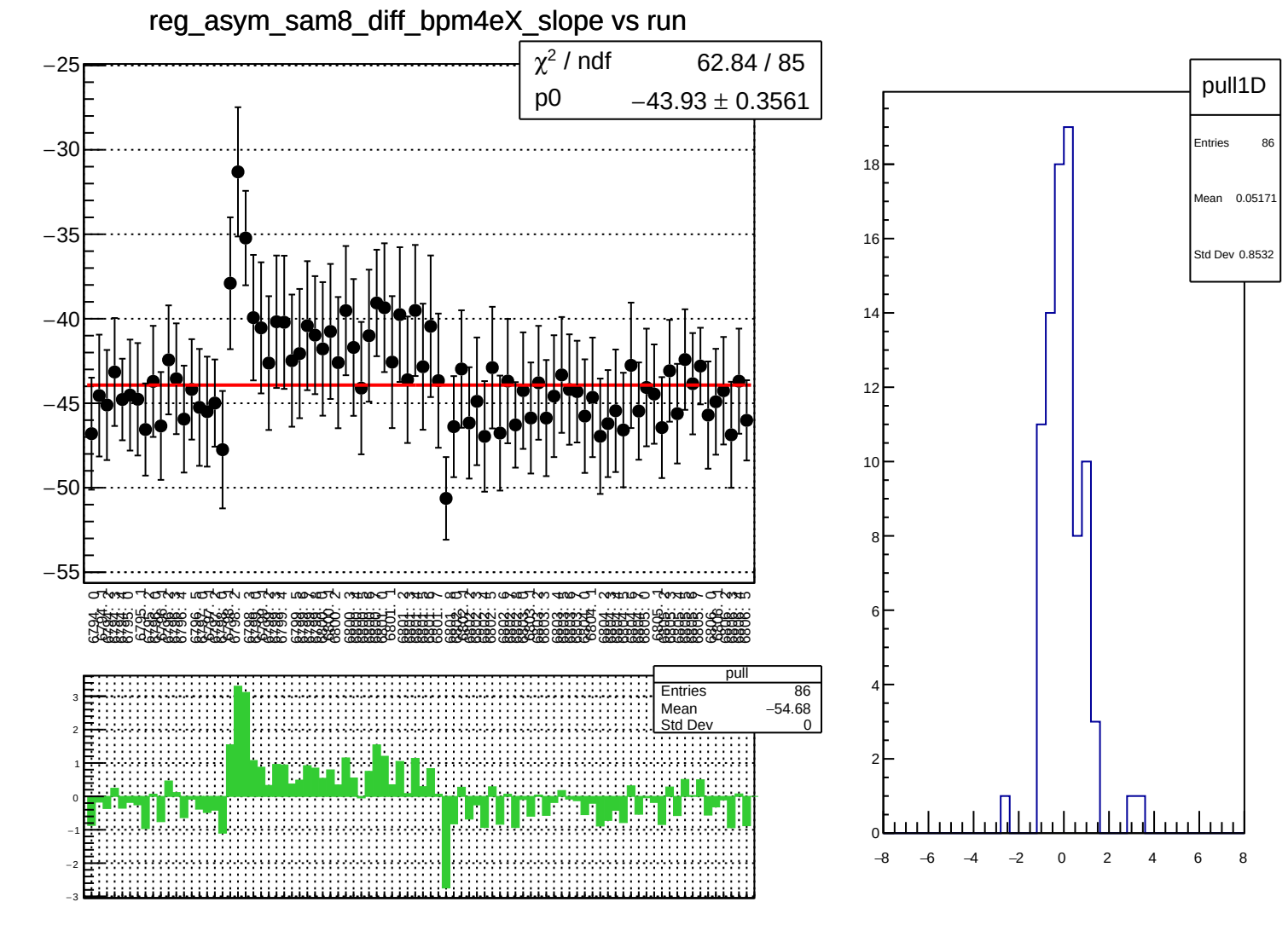

reg_asym_sam7_diff_bpm12X_slope vs run
χ^2 / ndf 17.63 / 85
p0 0.4228 ± 0.01734
pull
Entries 86
Mean 44.84
Std Dev 41.69

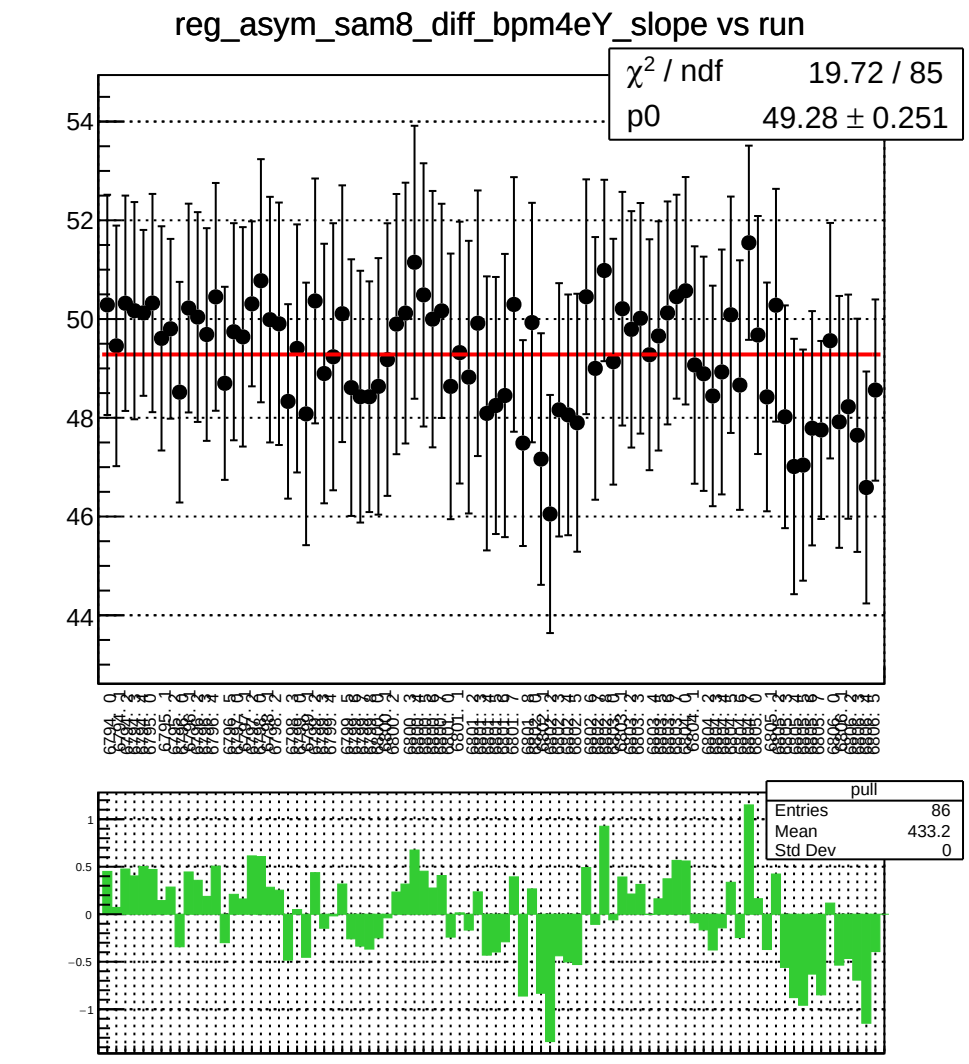

pull1D
Entries 86
Mean −0.009048
Std Dev 0.4527

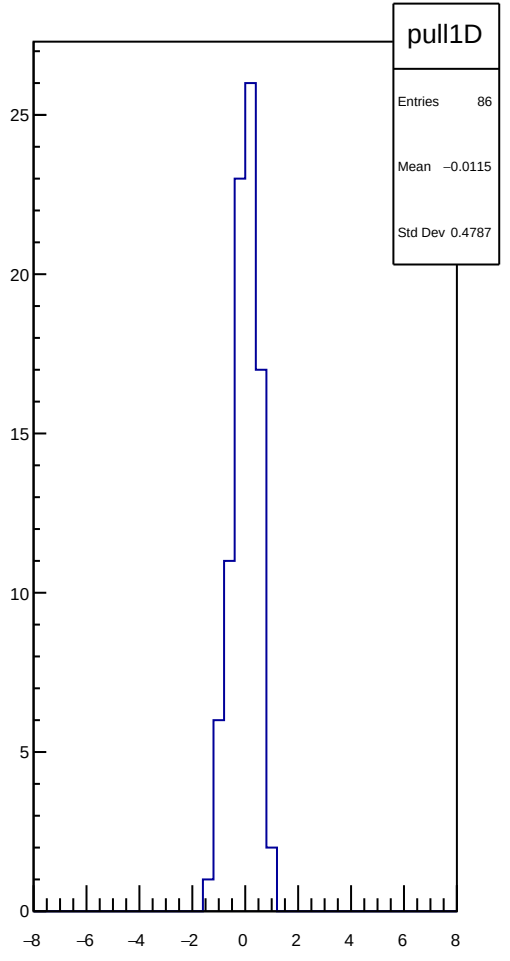

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 57.75 / 85
p0 13.72 ± 0.3805
pull
Entries 86
Mean −69.22
Std Dev 0
pull1D
Entries 86
Mean −0.04883
Std Dev 0.818

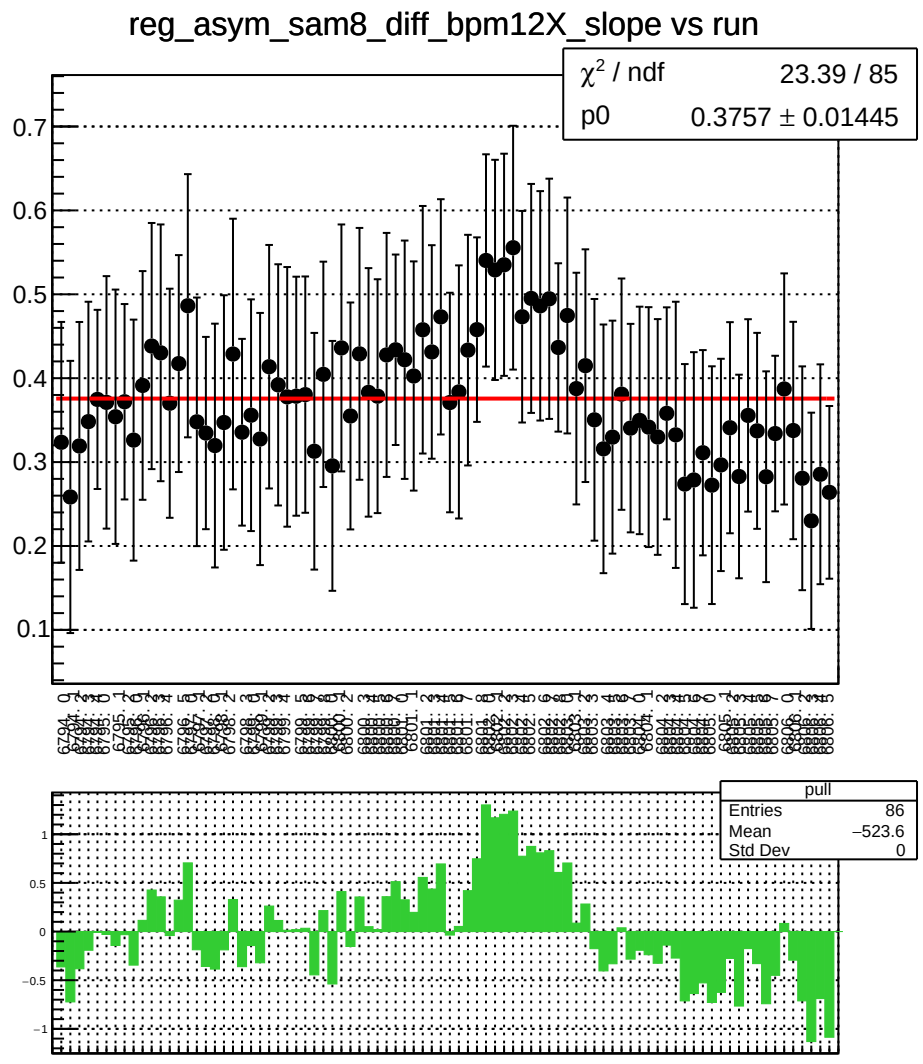

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 21.33 / 85
p0 −46.06 ± 0.181
−42
−44
−46
−48
−50
pull
Entries 86
Mean 512.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1

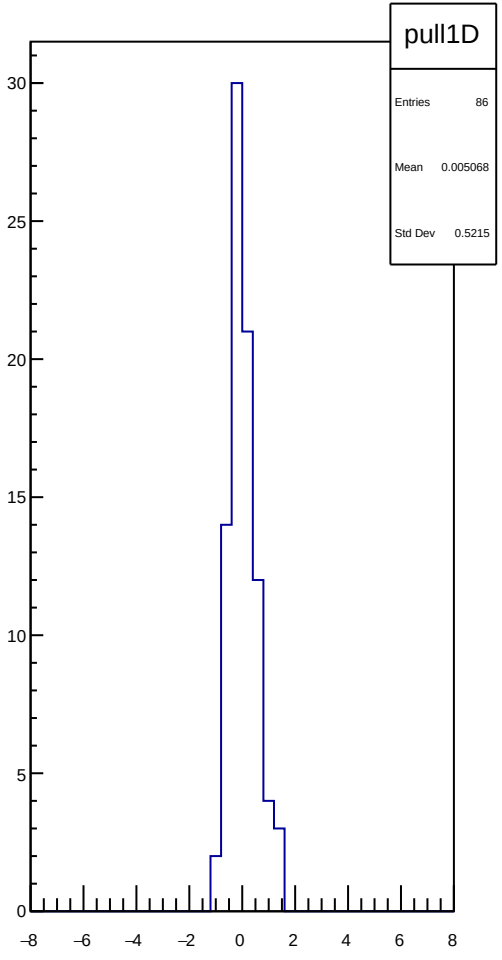

pull1D
Entries 86
Mean 0.01209
Std Dev 0.4979
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

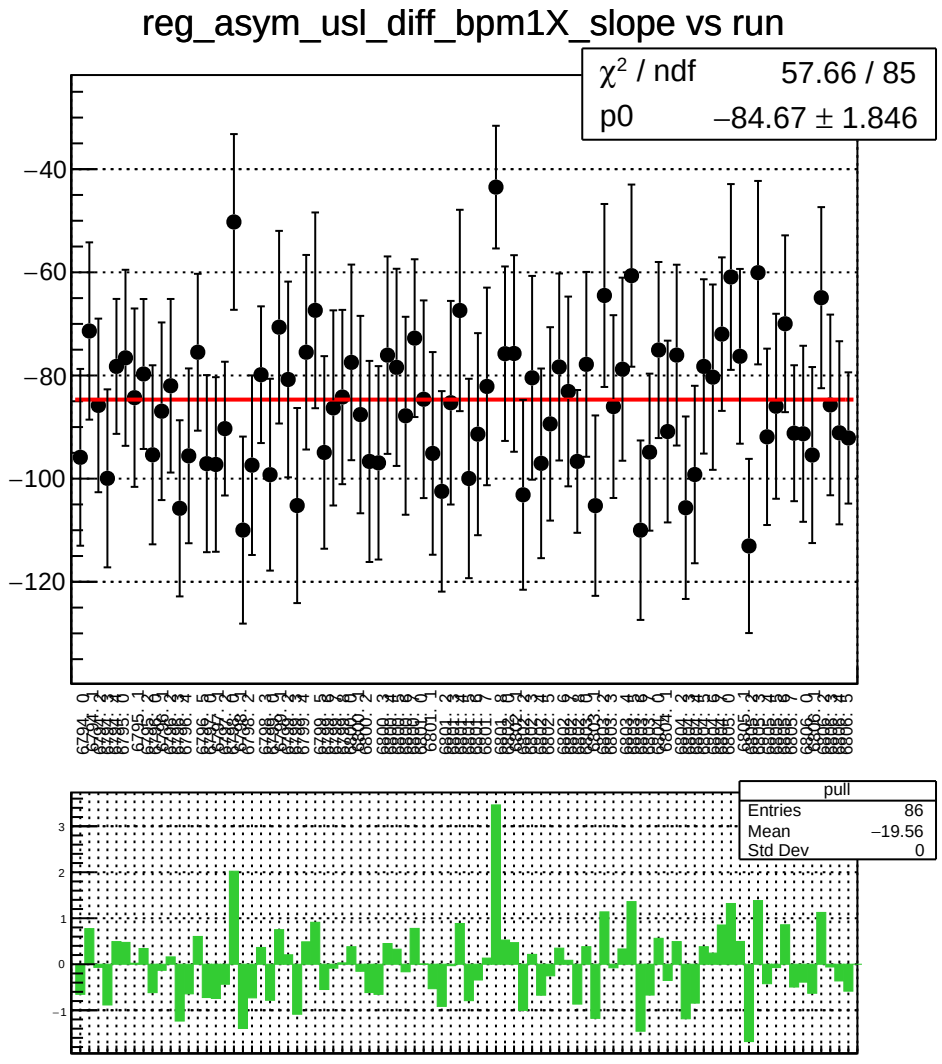

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 62.84 / 85
p0 −43.93 ± 0.3561
pull
Entries 86
Mean −54.68
Std Dev 0
pull1D
Entries 86
Mean 0.05171
Std Dev 0.8532

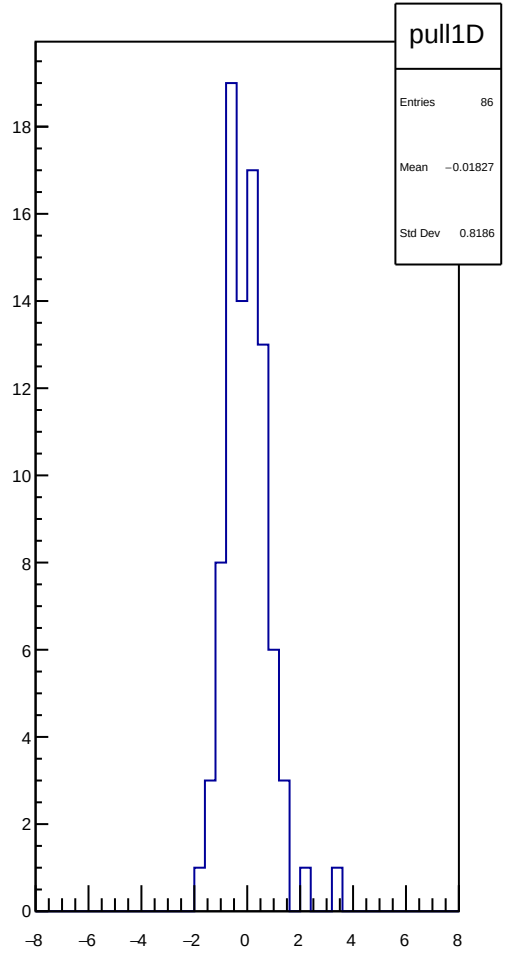

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 19.72 / 85
p0 49.28 ± 0.251
54
52
50
48
46
44
pull
Entries 86
Mean 433.2
Std Dev 0
1
0.5
0
−0.5
−1

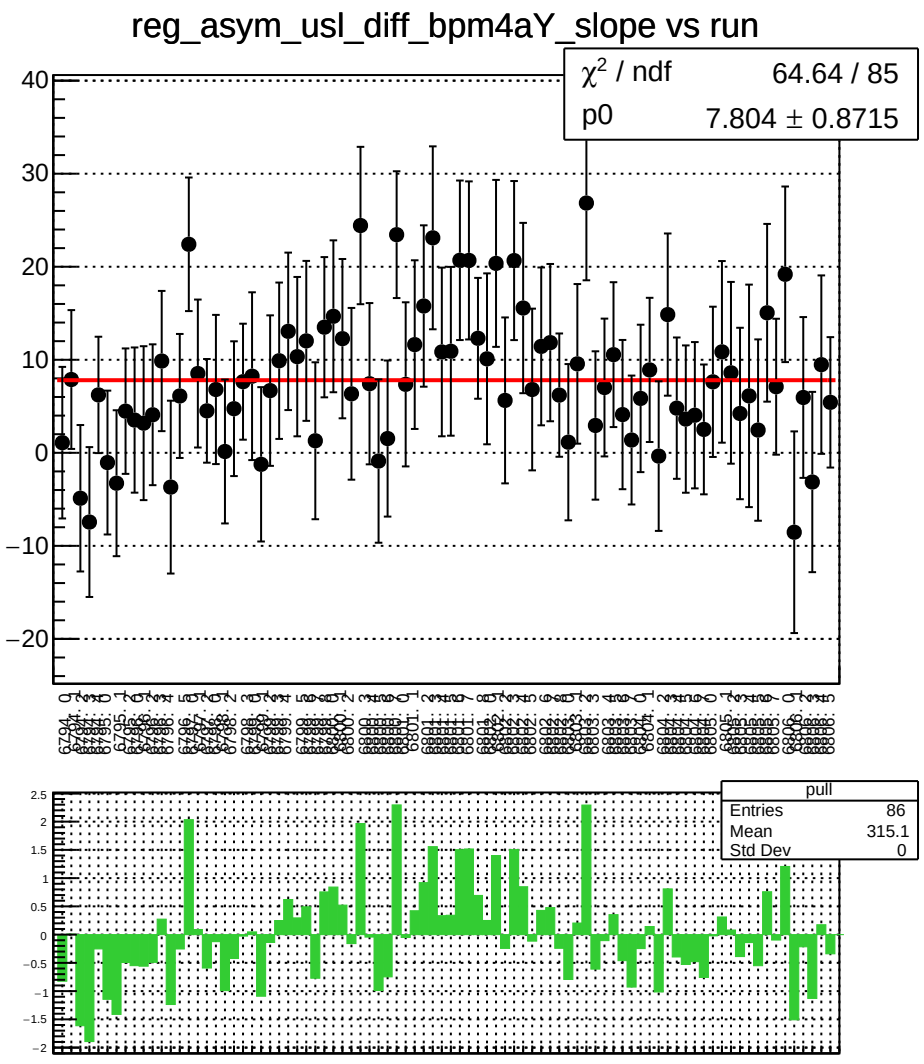

pull1D
Entries 86
Mean −0.0115
Std Dev 0.4787
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

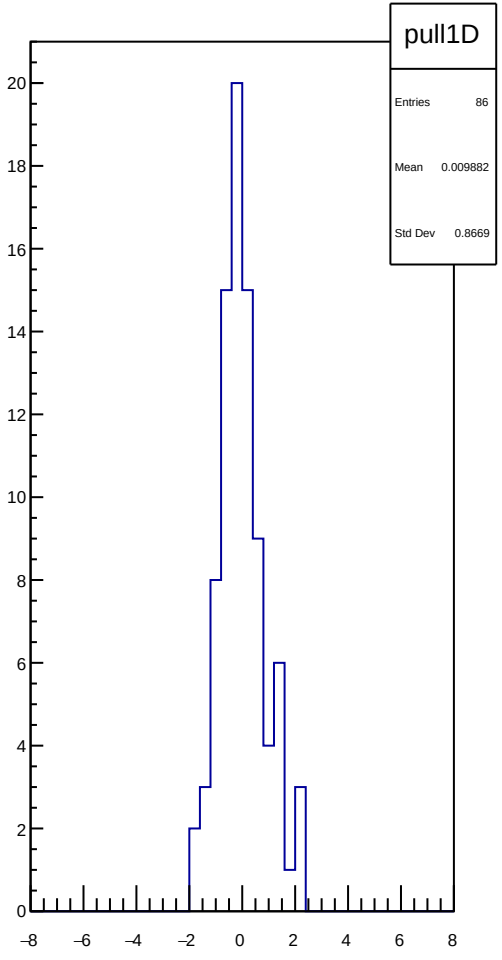

reg_asym_sam8_diff_bpm12X_slope vs run
χ^2 / ndf 23.39 / 85
p0 0.3757 ± 0.01445
pull
Entries 86
Mean −523.6
Std Dev 0

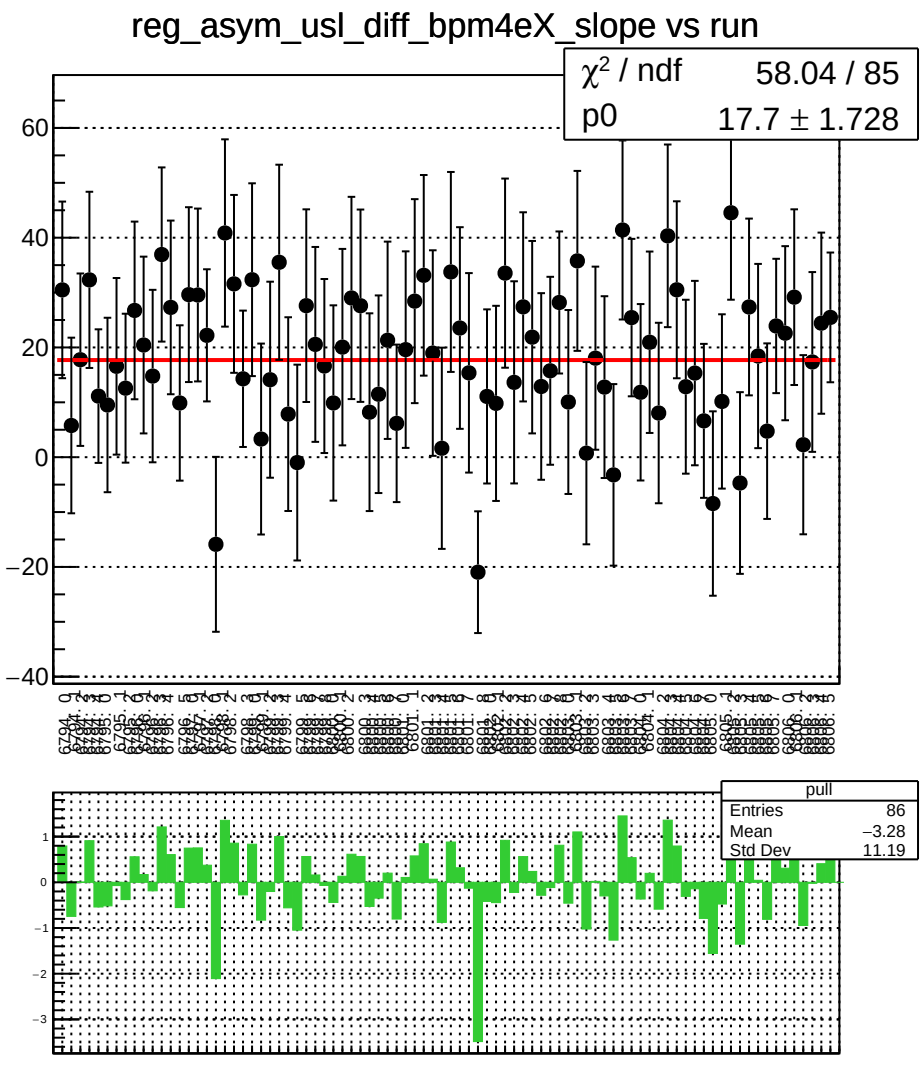

pull1D
Entries 86
Mean 0.005068
Std Dev 0.5215

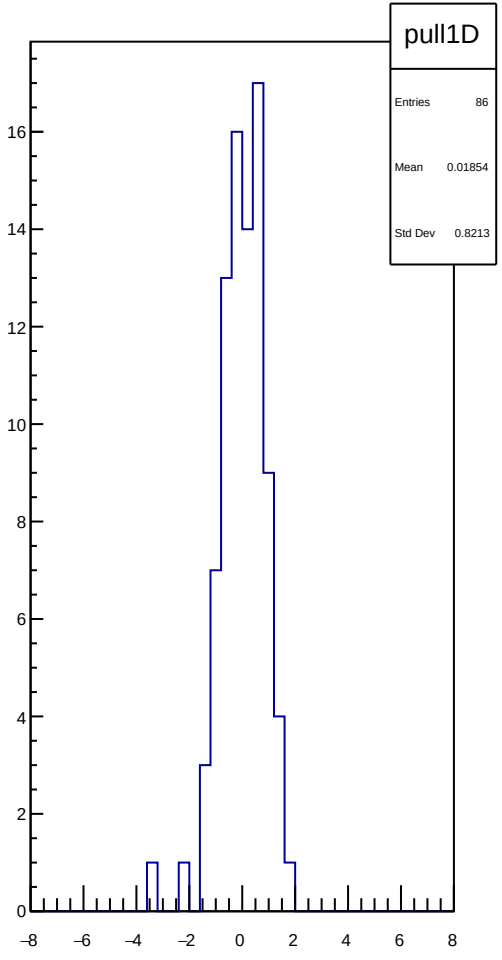

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 57.66 / 85
p0 −84.67 ± 1.846
−40
−60
−80
−100
−120
pull
Entries 86
Mean −19.56
Std Dev 0
3
2
1
0
−1

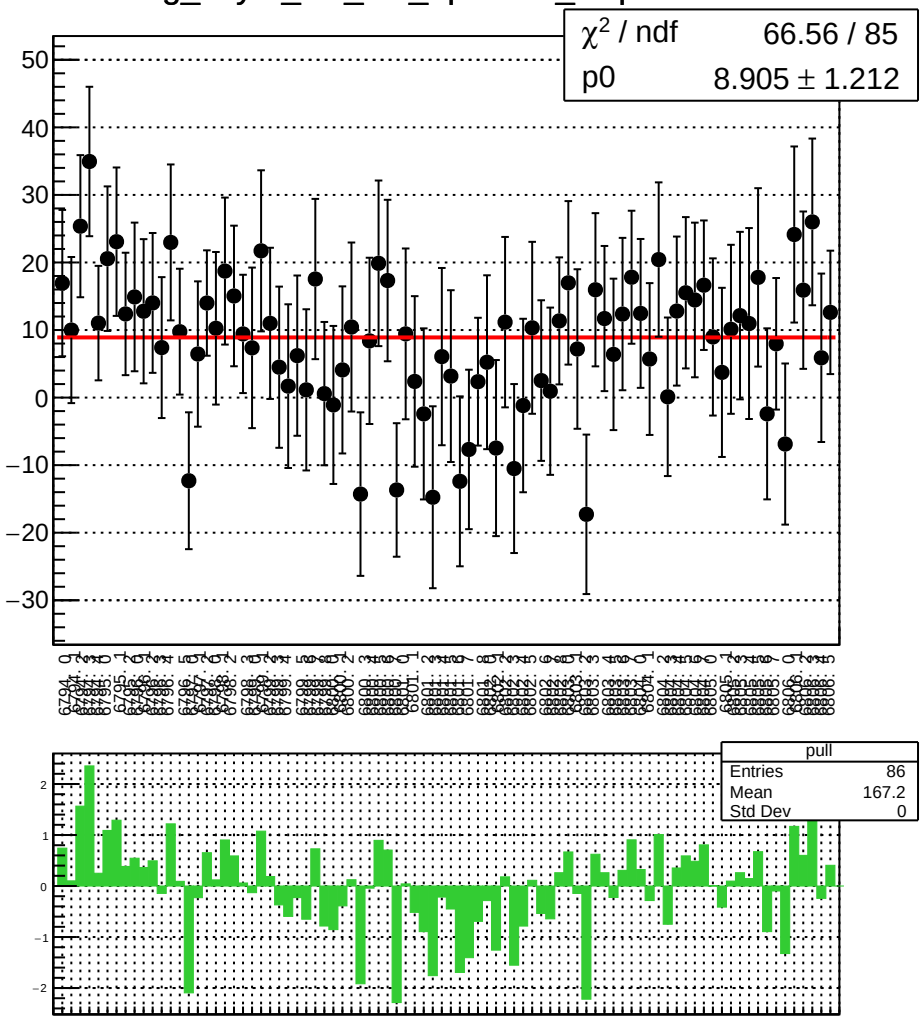

pull1D
Entries 86
Mean −0.01827
Std Dev 0.8186
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

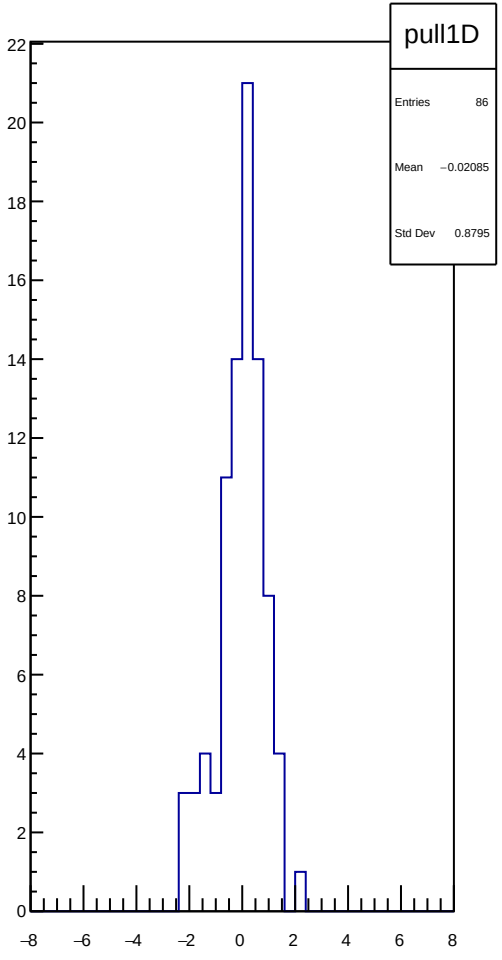

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 64.64 / 85
p0 7.804 ± 0.8715
pull
Entries 86
Mean 315.1
Std Dev 0

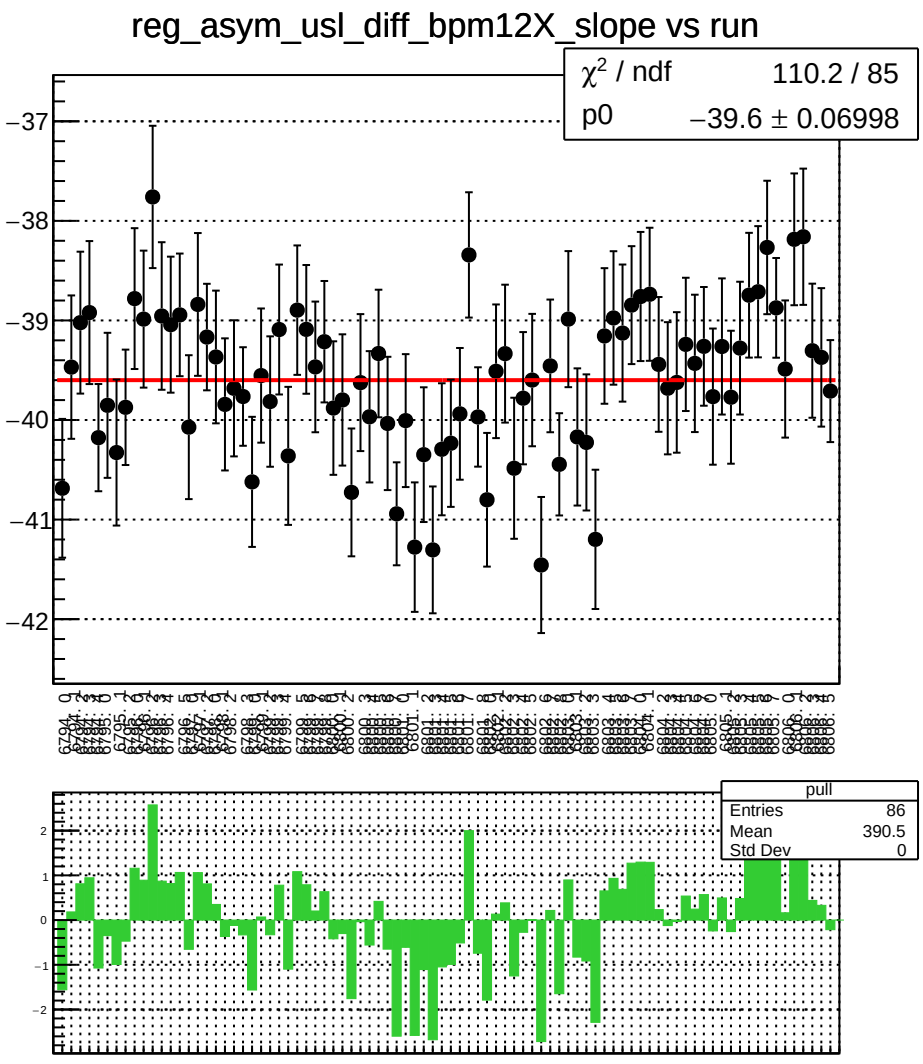

pull1D
Entries 86
Mean 0.009882
Std Dev 0.8669

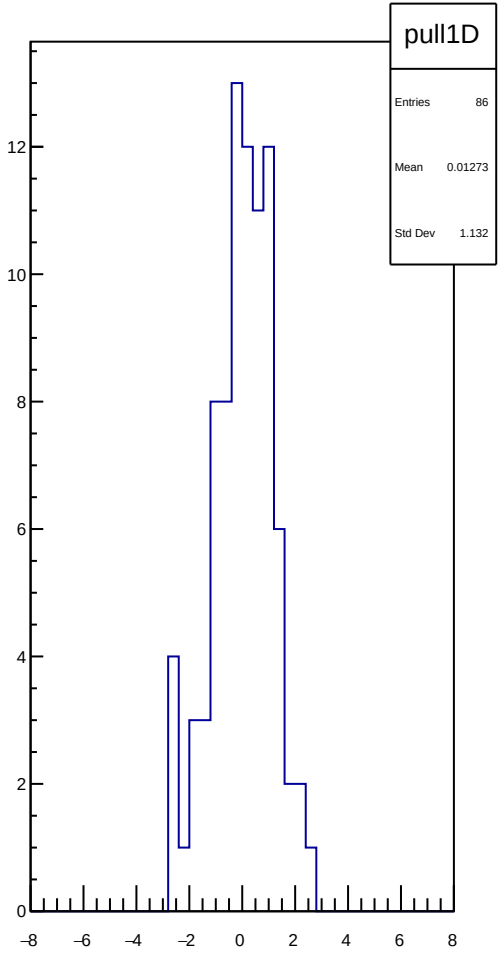

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 58.04 / 85
p0 17.7 ± 1.728
pull
Entries 86
Mean −3.28
Std Dev 11.19

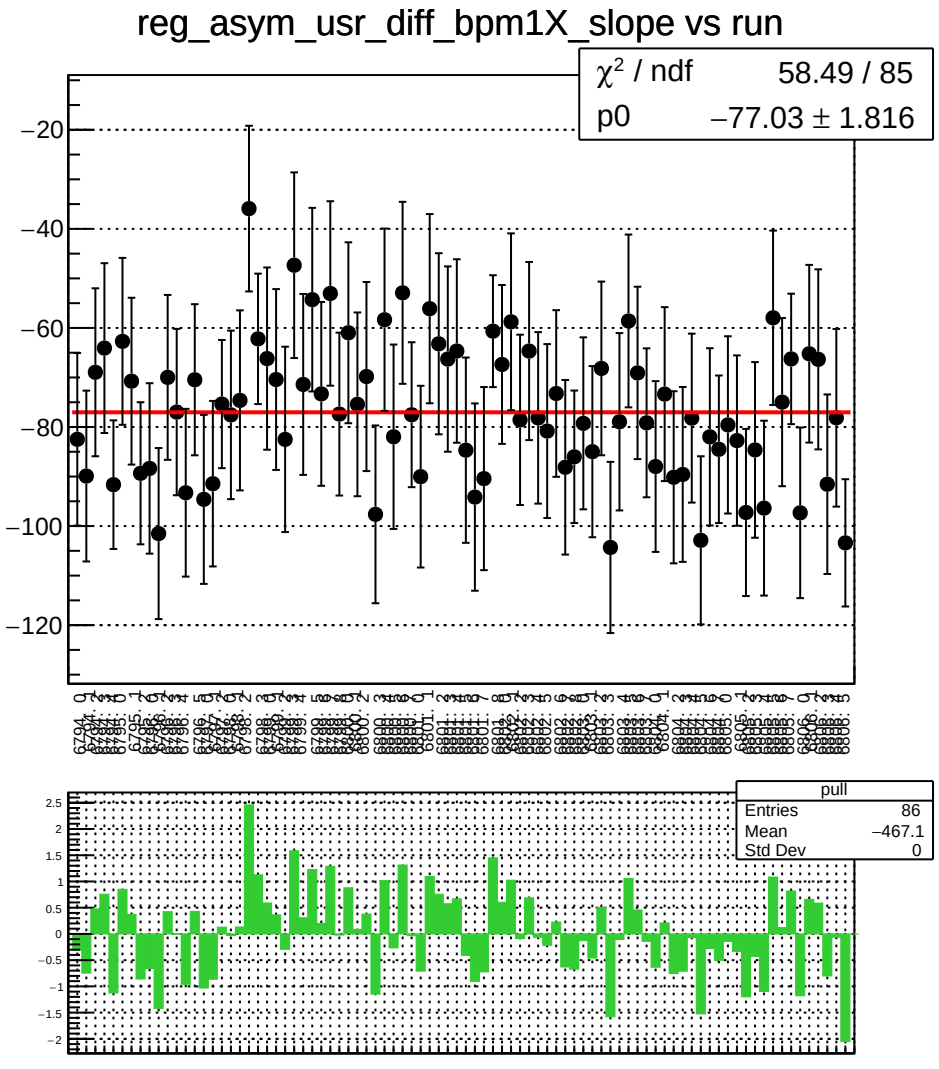

pull1D
Entries 86
Mean 0.01854
Std Dev 0.8213

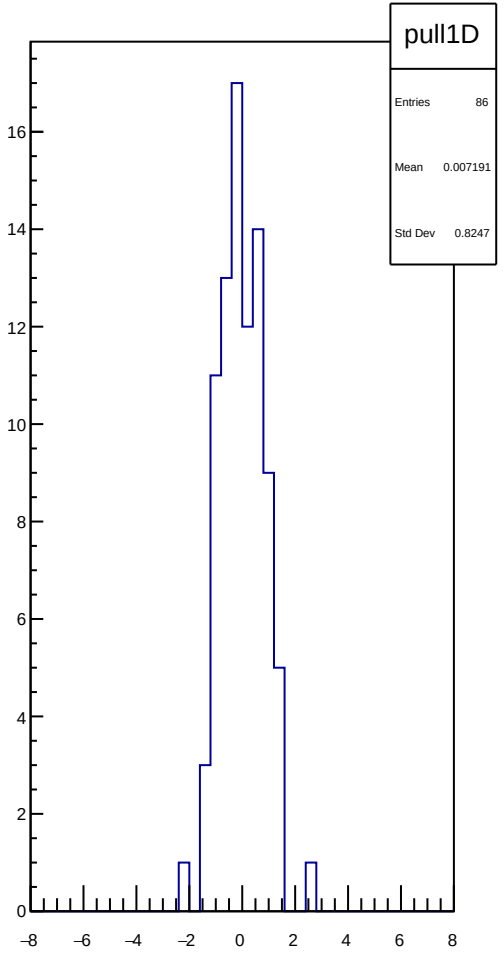

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 66.56 / 85
p0 8.905 ± 1.212
pull
Entries 86
Mean 167.2
Std Dev 0

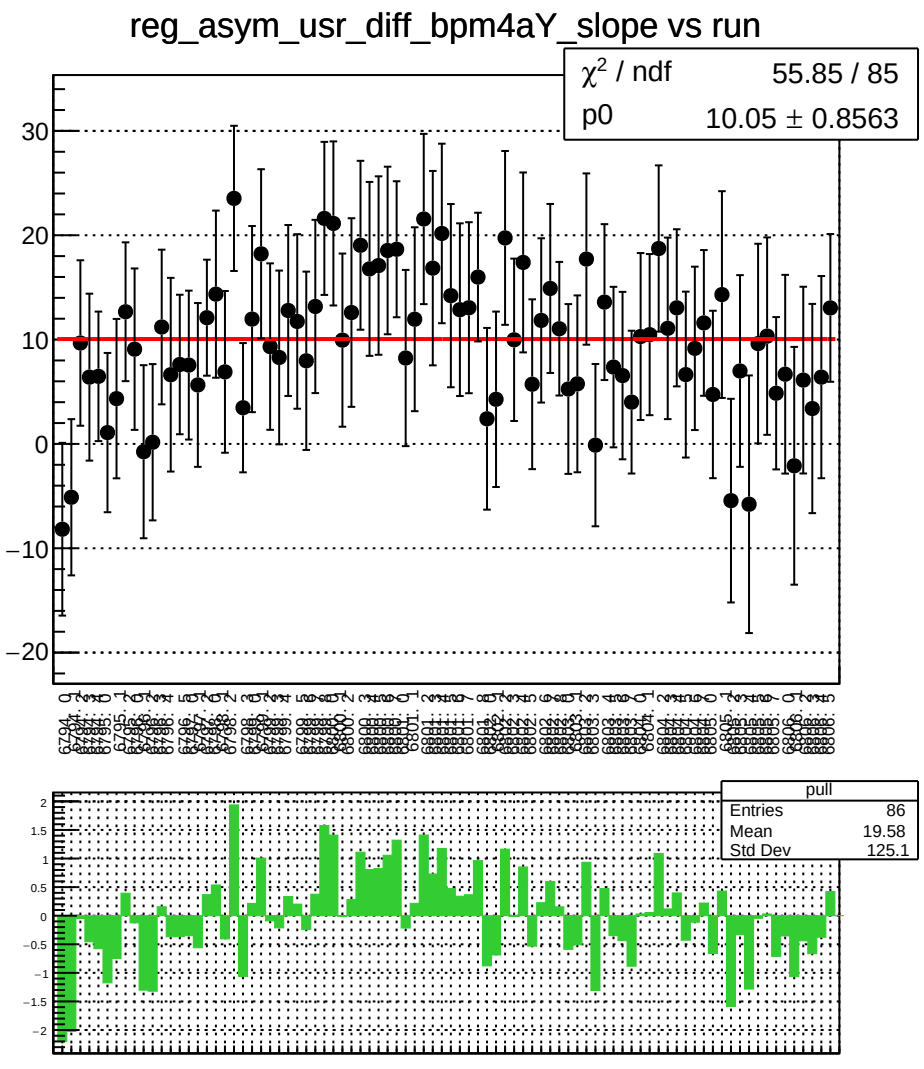

pull1D
Entries 86
Mean −0.02085
Std Dev 0.8795

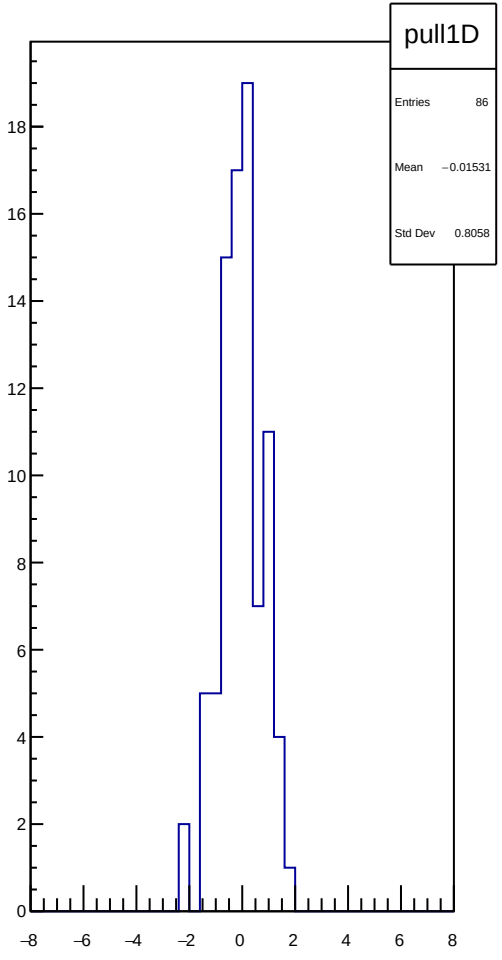

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 110.2 / 85
p0 −39.6 ± 0.06998
pull
Entries 86
Mean 390.5
Std Dev 0

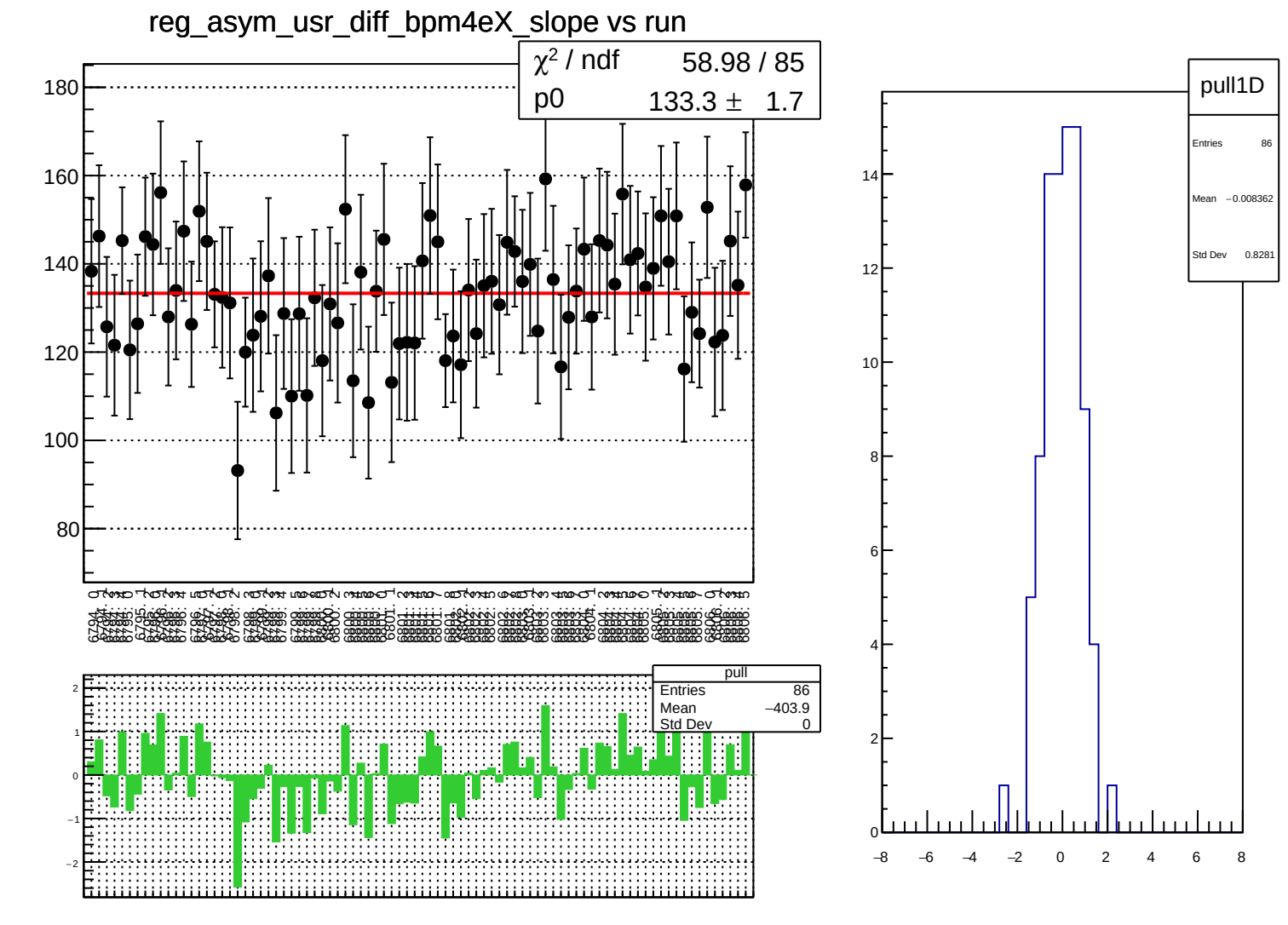

pull1D
Entries 86
Mean 0.01273
Std Dev 1.132

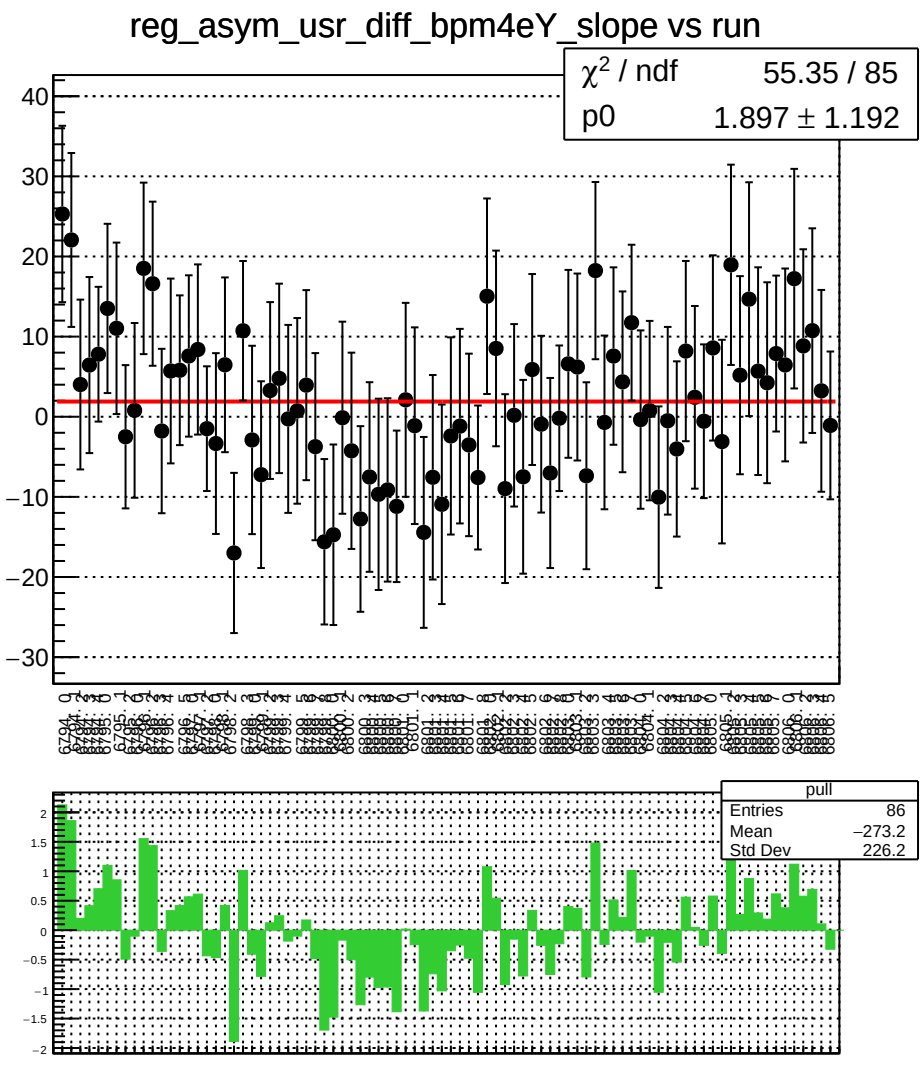

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 58.49 / 85
p0 −77.03 ± 1.816
pull
Entries 86
Mean −467.1
Std Dev 0

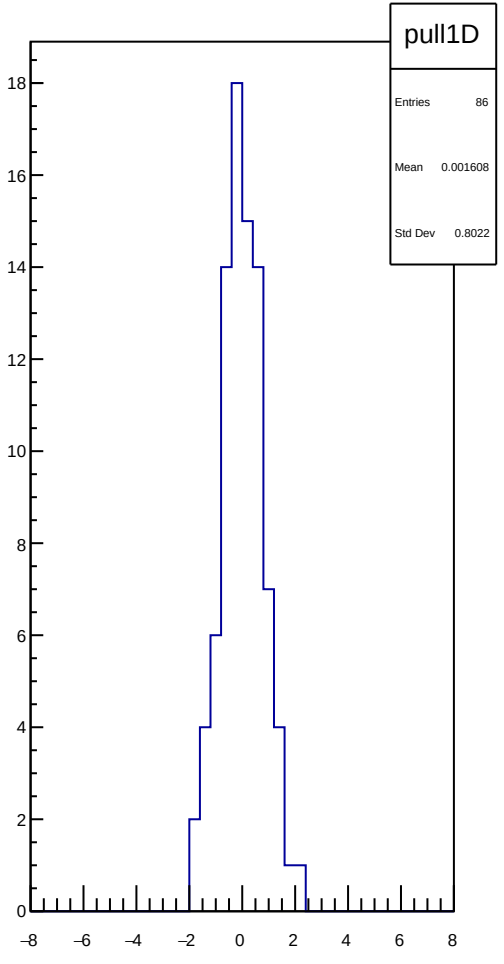

pull1D
Entries 86
Mean 0.007191
Std Dev 0.8247

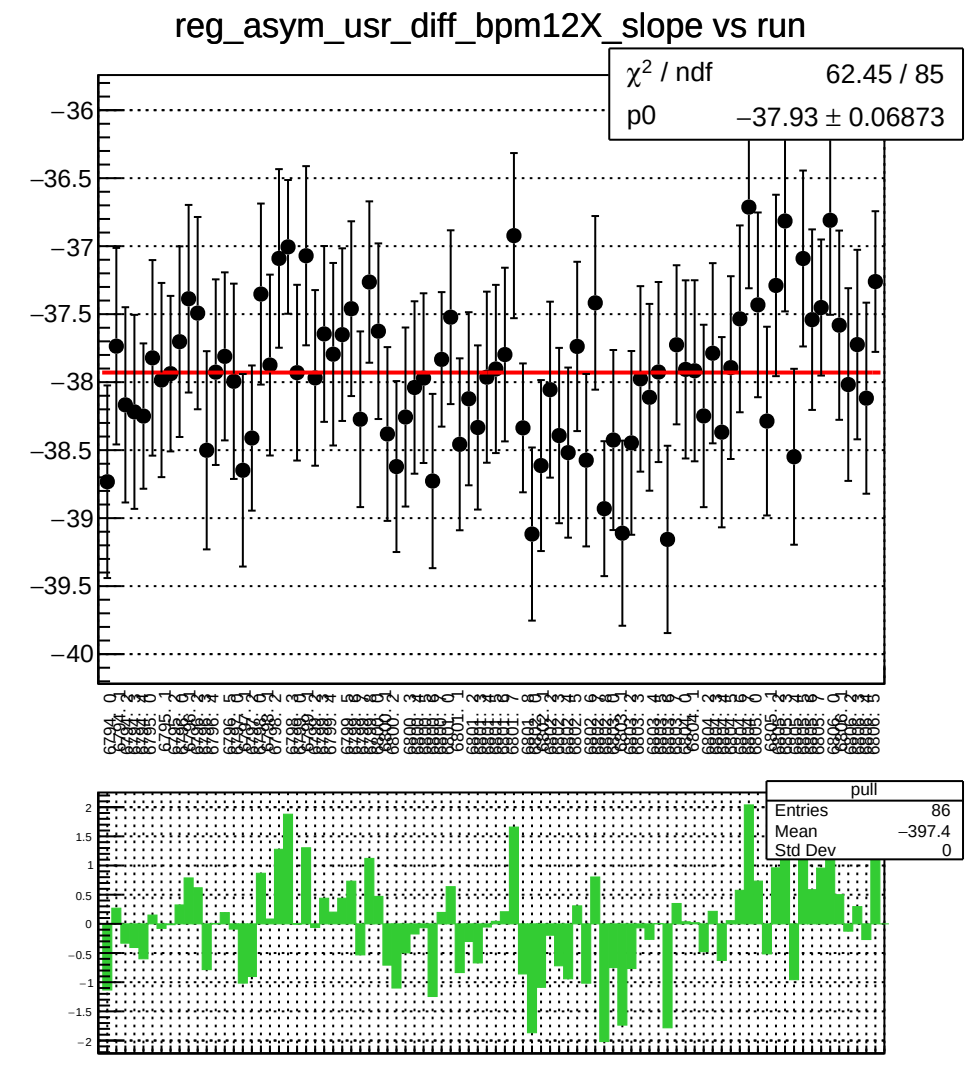

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 55.85 / 85
p0 10.05 ± 0.8563
pull
Entries 86
Mean 19.58
Std Dev 125.1

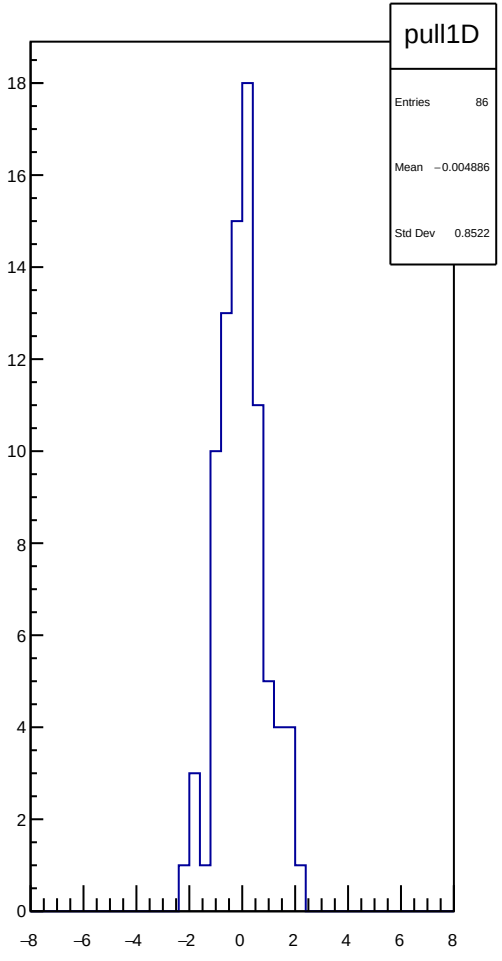

pull1D
Entries 86
Mean −0.01531
Std Dev 0.8058

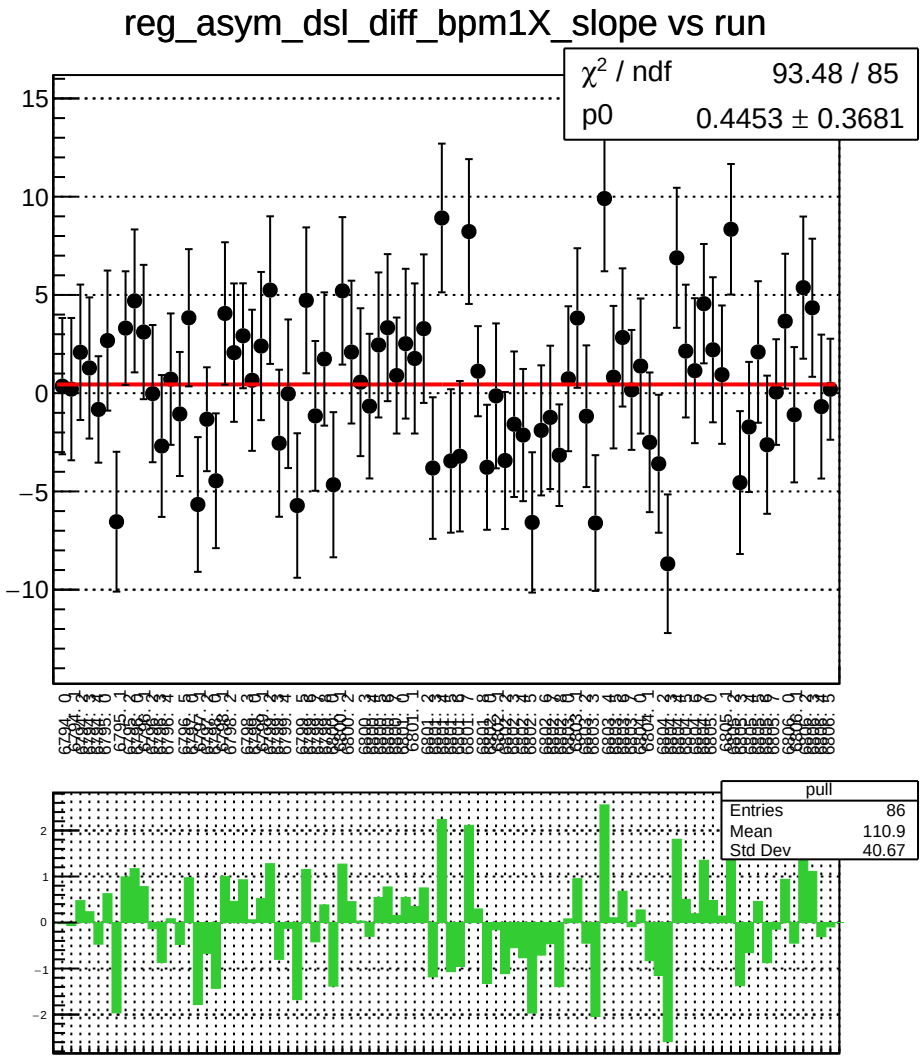

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 58.98 / 85
p0 133.3 ± 1.7
pull
Entries 86
Mean −403.9
Std Dev 0
pull1D
Entries 86
Mean −0.008362
Std Dev 0.8281

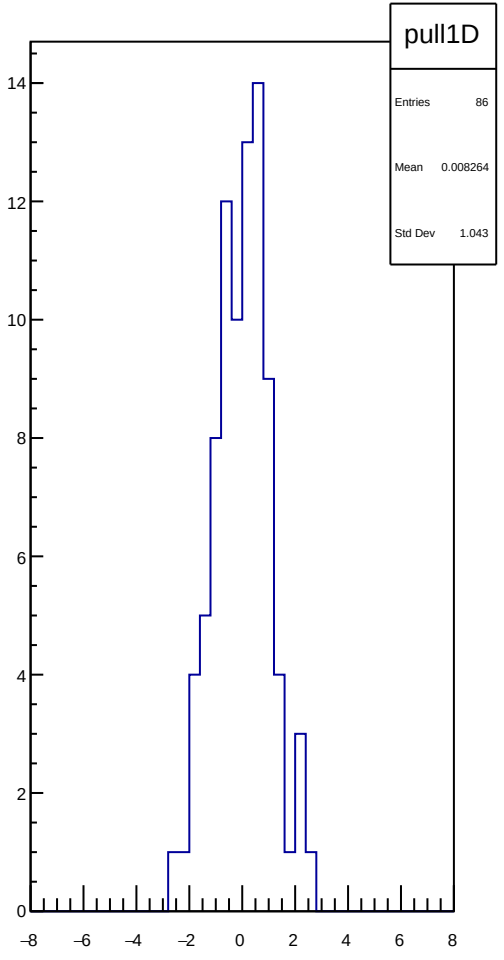

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 55.35 / 85
p0 1.897 ± 1.192
pull
Entries 86
Mean −273.2
Std Dev 226.2

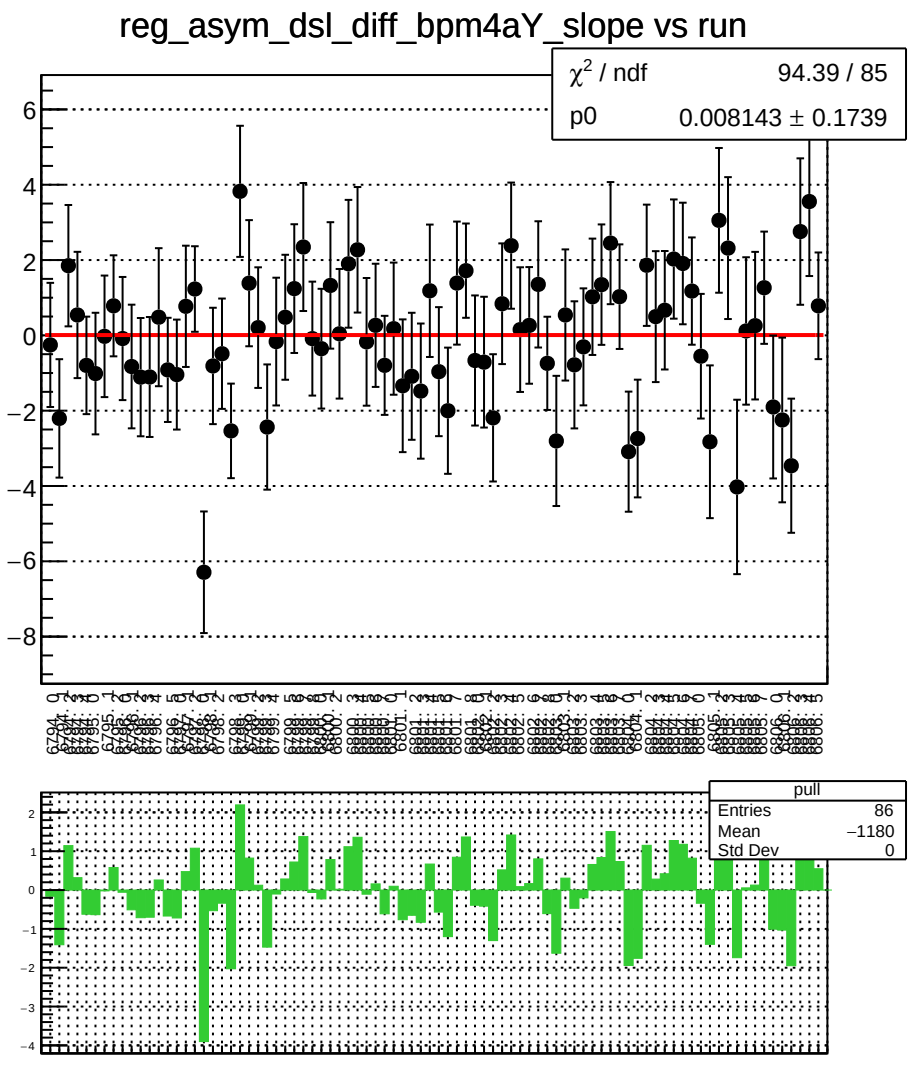

pull1D
Entries 86
Mean 0.001608
Std Dev 0.8022

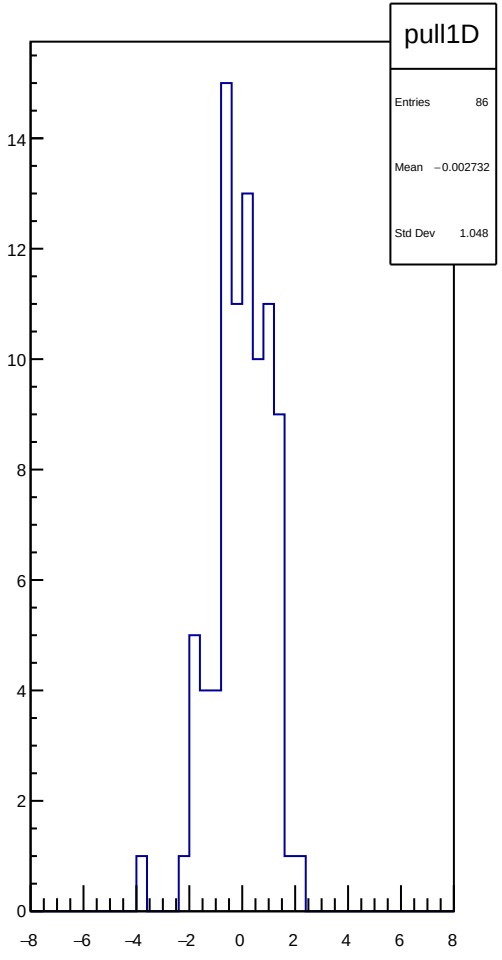

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 62.45 / 85
p0 −37.93 ± 0.06873
pull
Entries 86
Mean −397.4
Std Dev 0

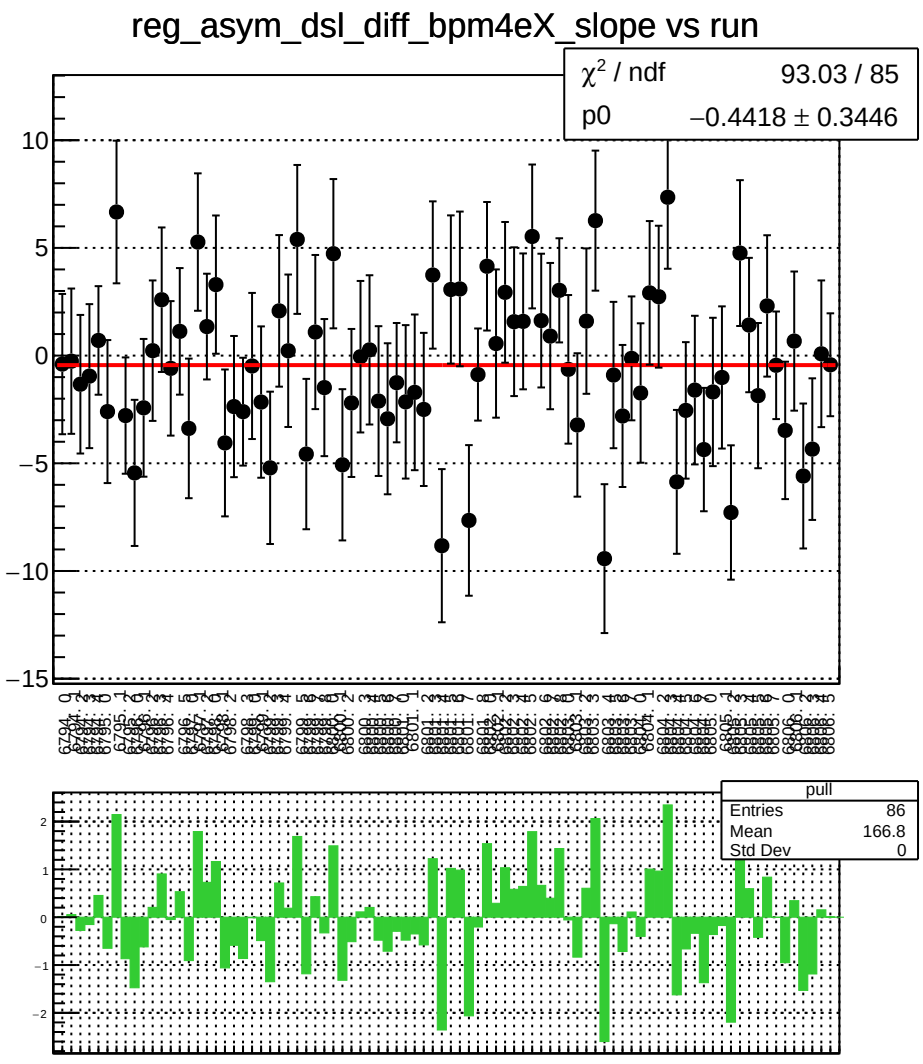

pull1D
Entries 86
Mean −0.004886
Std Dev 0.8522

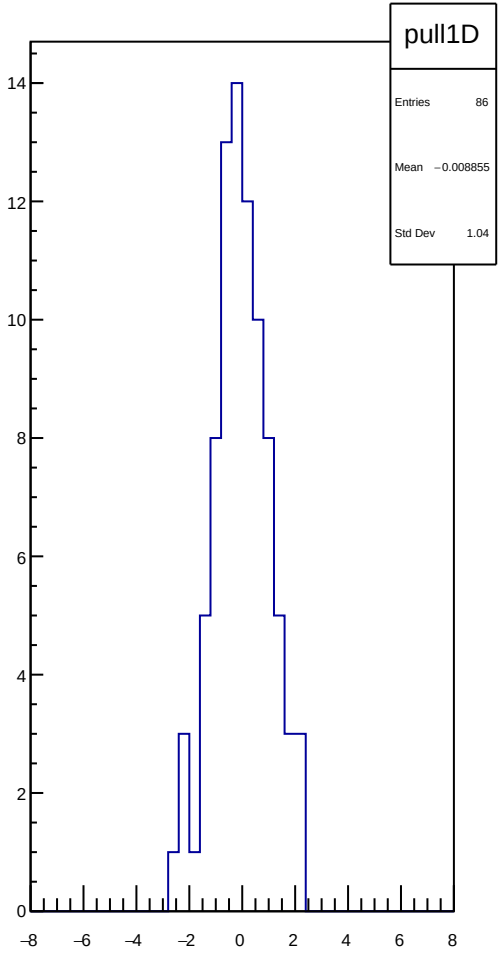

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 93.48 / 85
p0 0.4453 ± 0.3681
pull
Entries 86
Mean 110.9
Std Dev 40.67

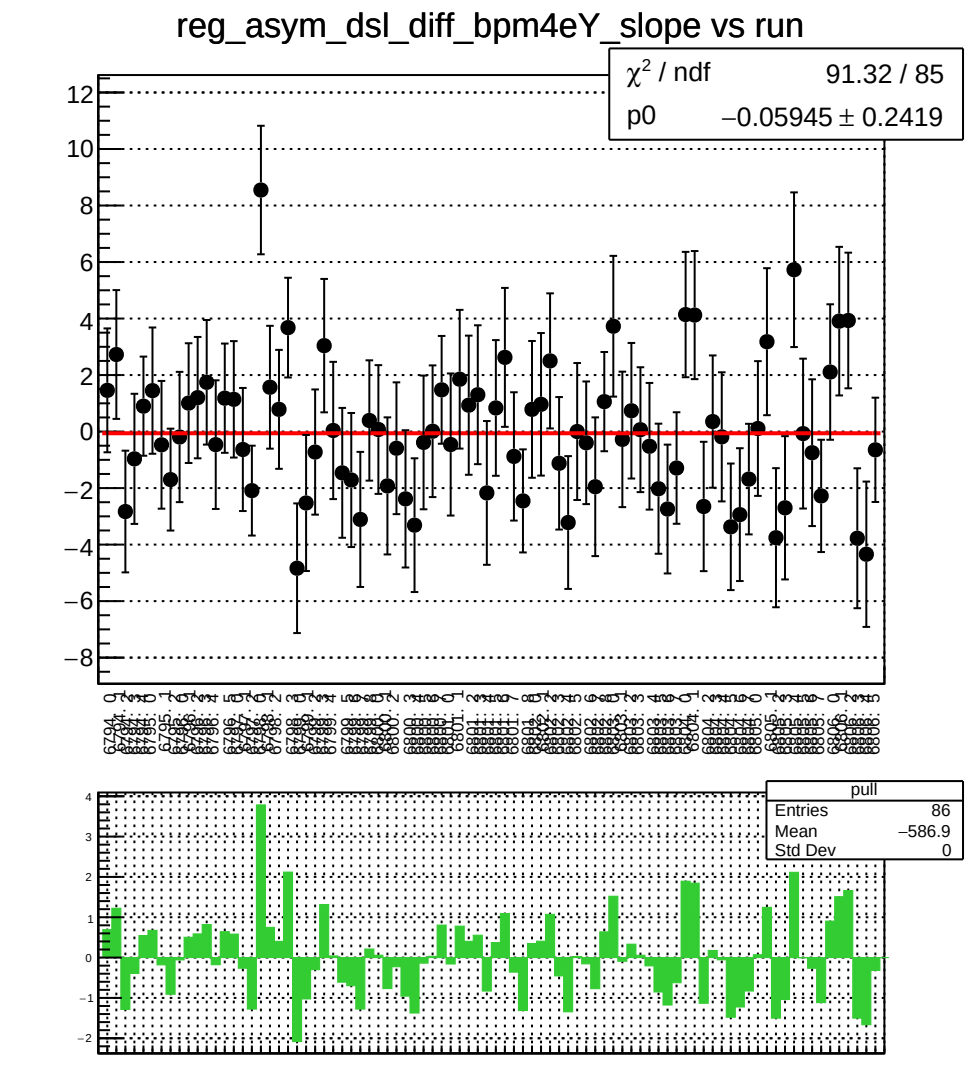

pull1D
Entries 86
Mean 0.008264
Std Dev 1.043

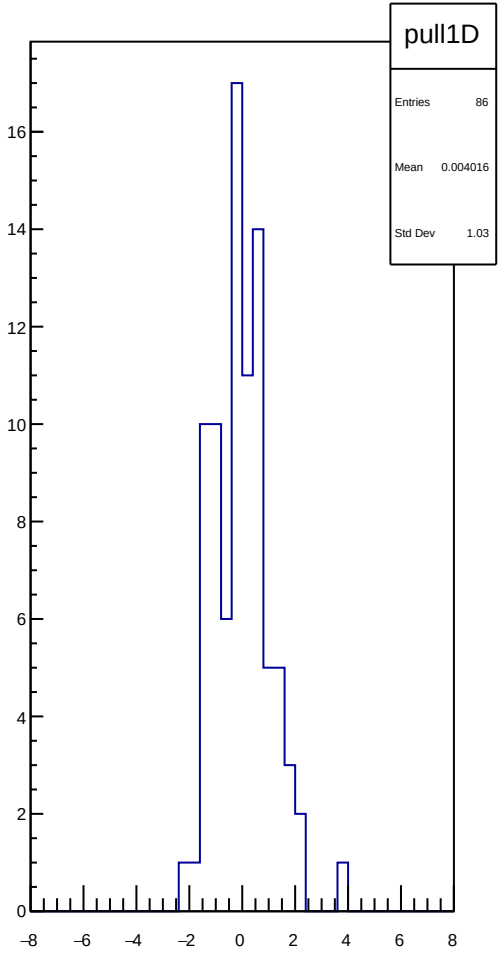

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.39 / 85
p0 0.008143 ± 0.1739
pull
Entries 86
Mean −1180
Std Dev 0

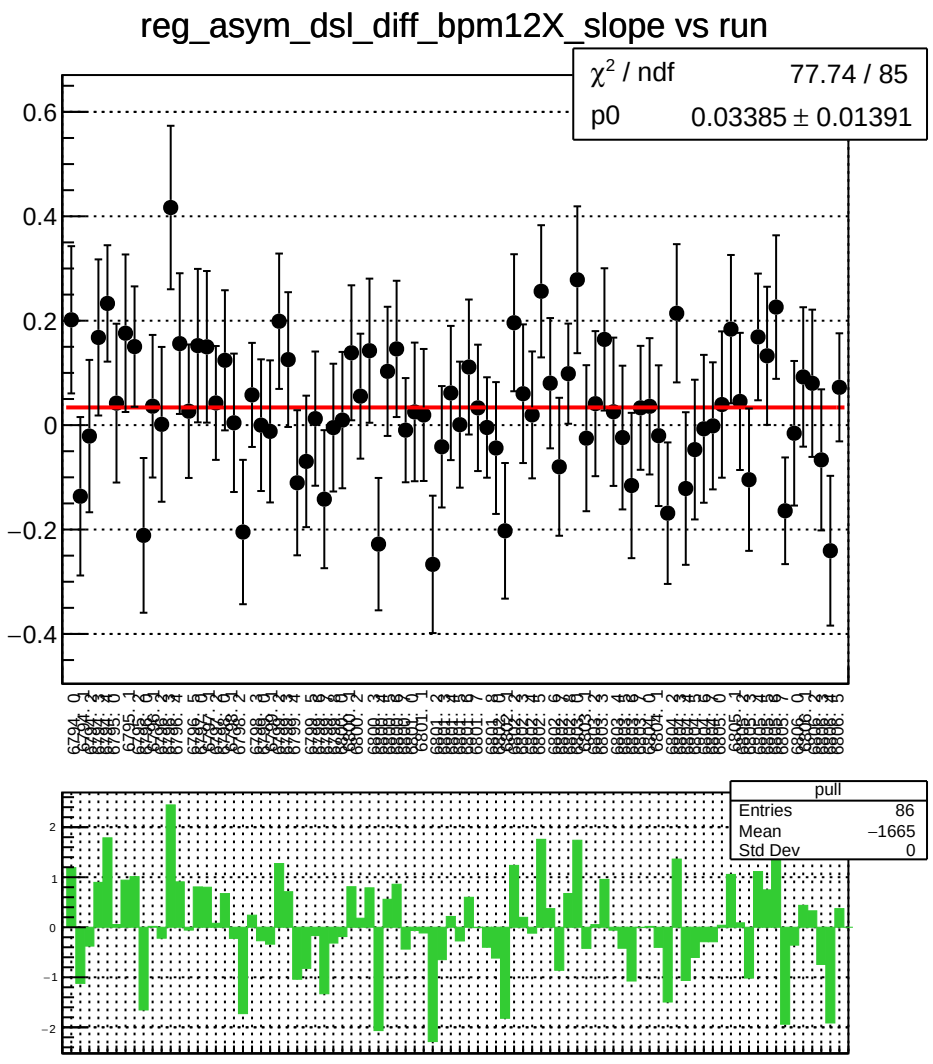

pull1D
Entries 86
Mean −0.002732
Std Dev 1.048

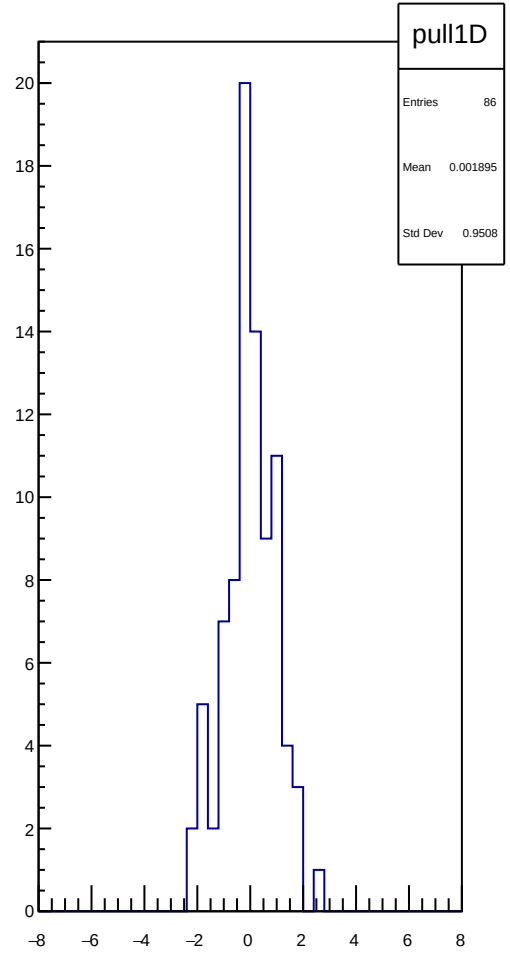

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 93.03 / 85
p0 −0.4418 ± 0.3446
pull
Entries 86
Mean 166.8
Std Dev 0

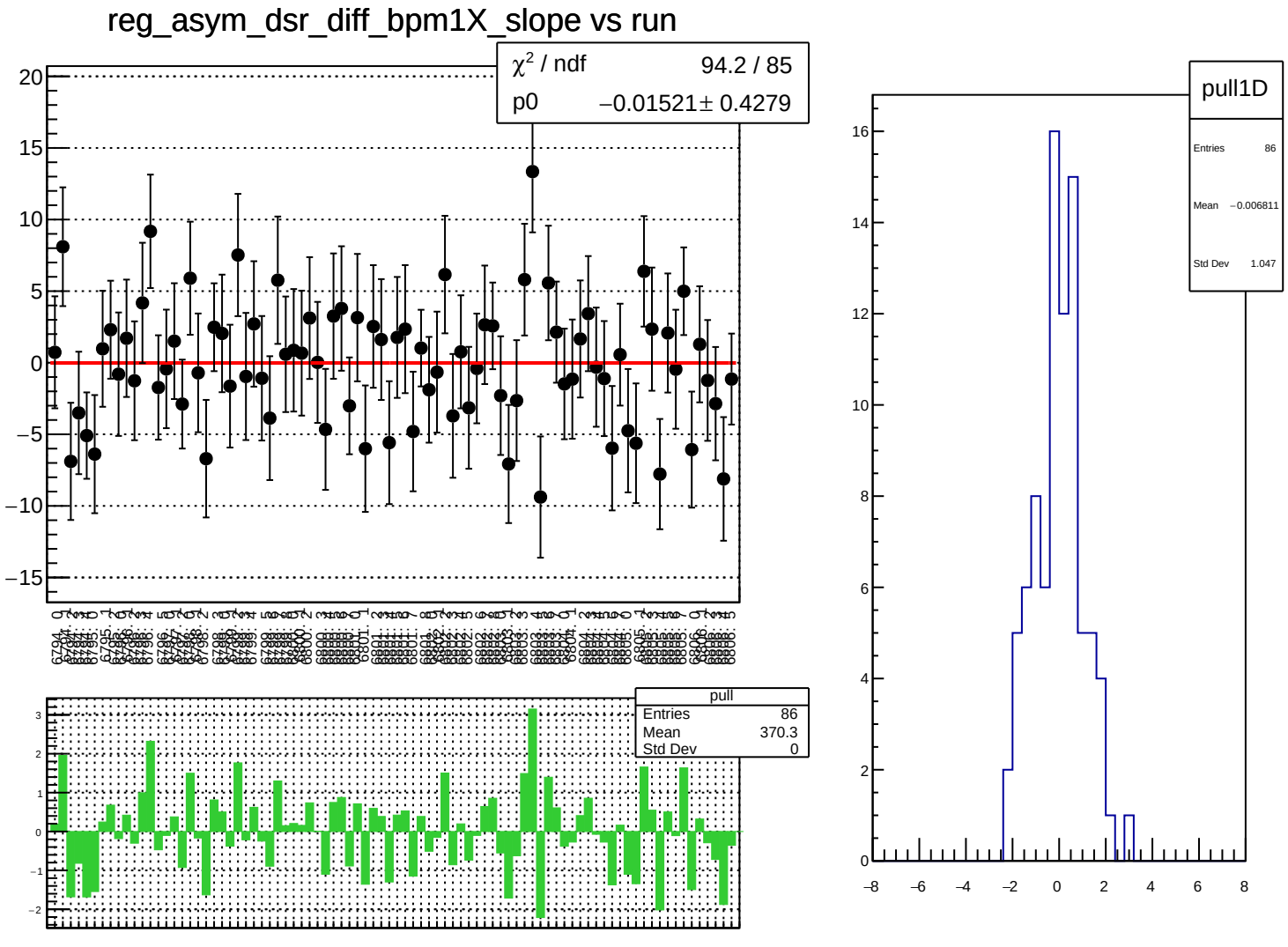

pull1D
Entries 86
Mean −0.008855
Std Dev 1.04

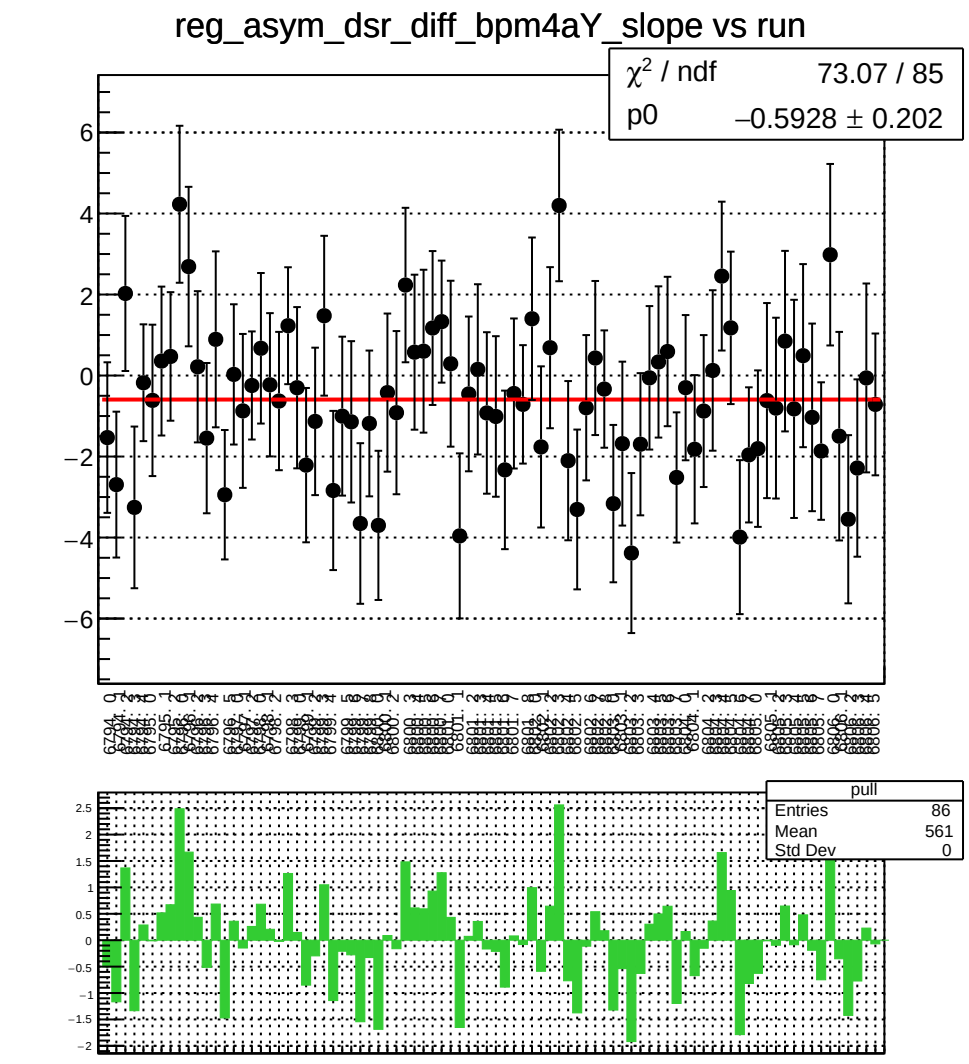

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 91.32 / 85
p0 −0.05945 ± 0.2419
pull
Entries 86
Mean −586.9
Std Dev 0

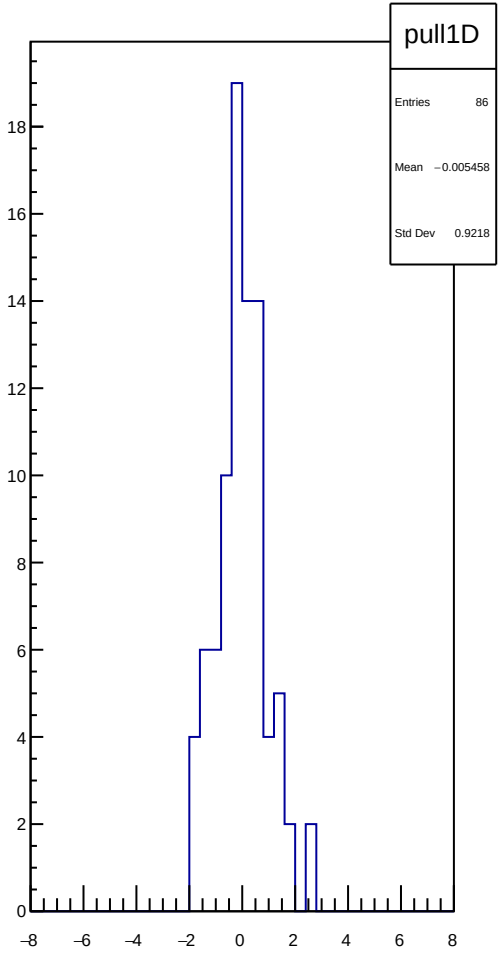

pull1D
Entries 86
Mean 0.004016
Std Dev 1.03

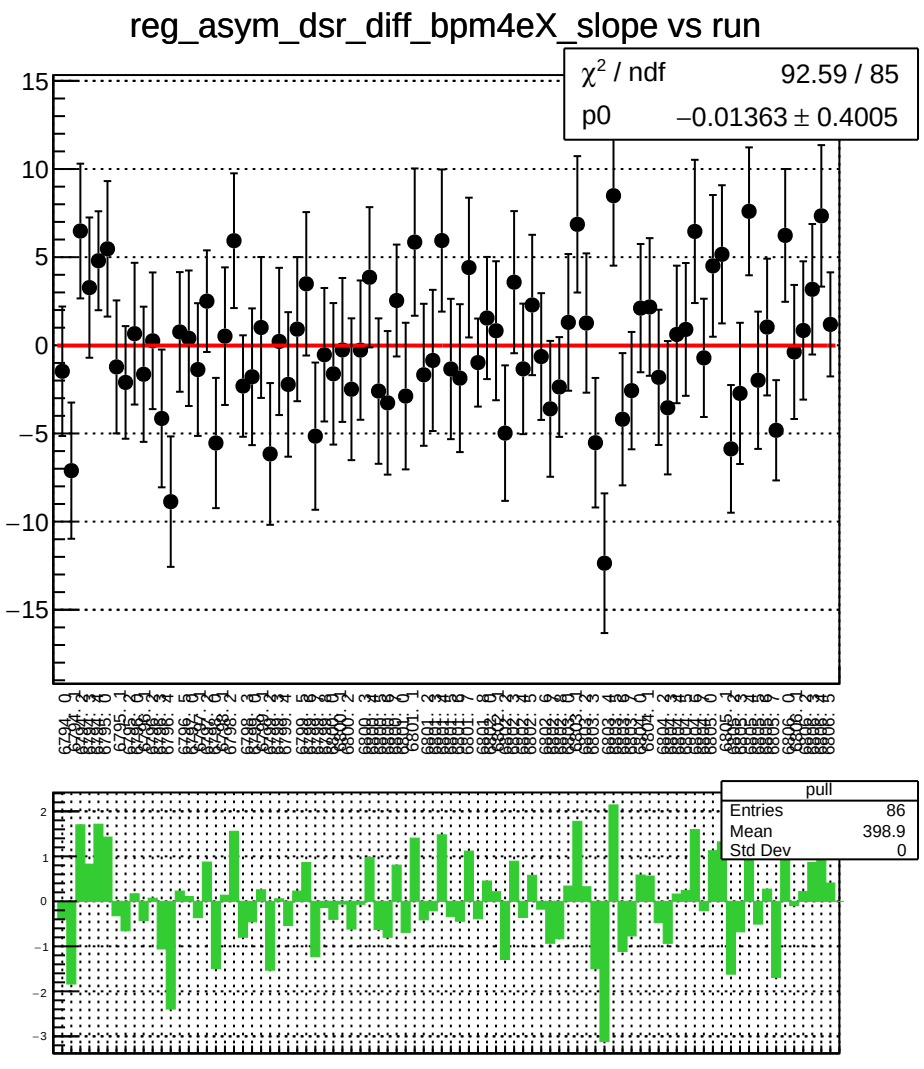

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 77.74 / 85
p0 0.03385 ± 0.01391
pull
Entries 86
Mean −1665
Std Dev 0

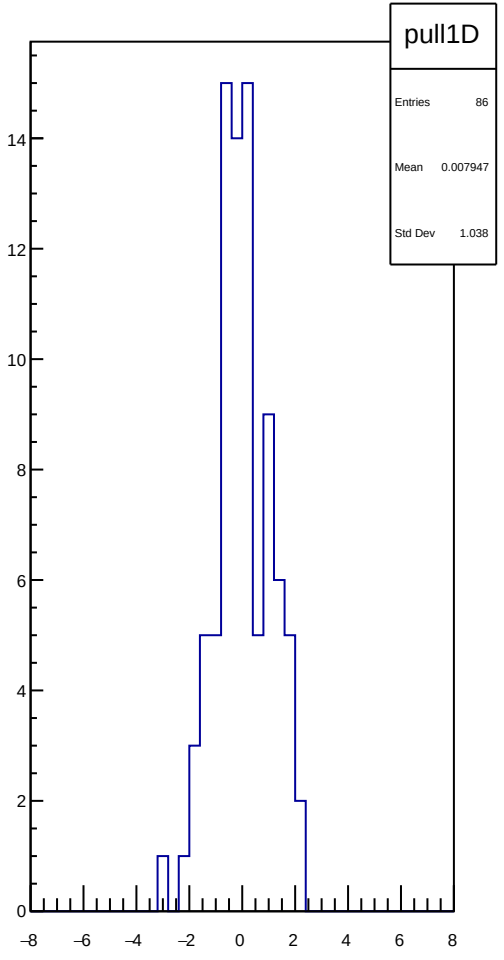

pull1D
Entries 86
Mean 0.001895
Std Dev 0.9508

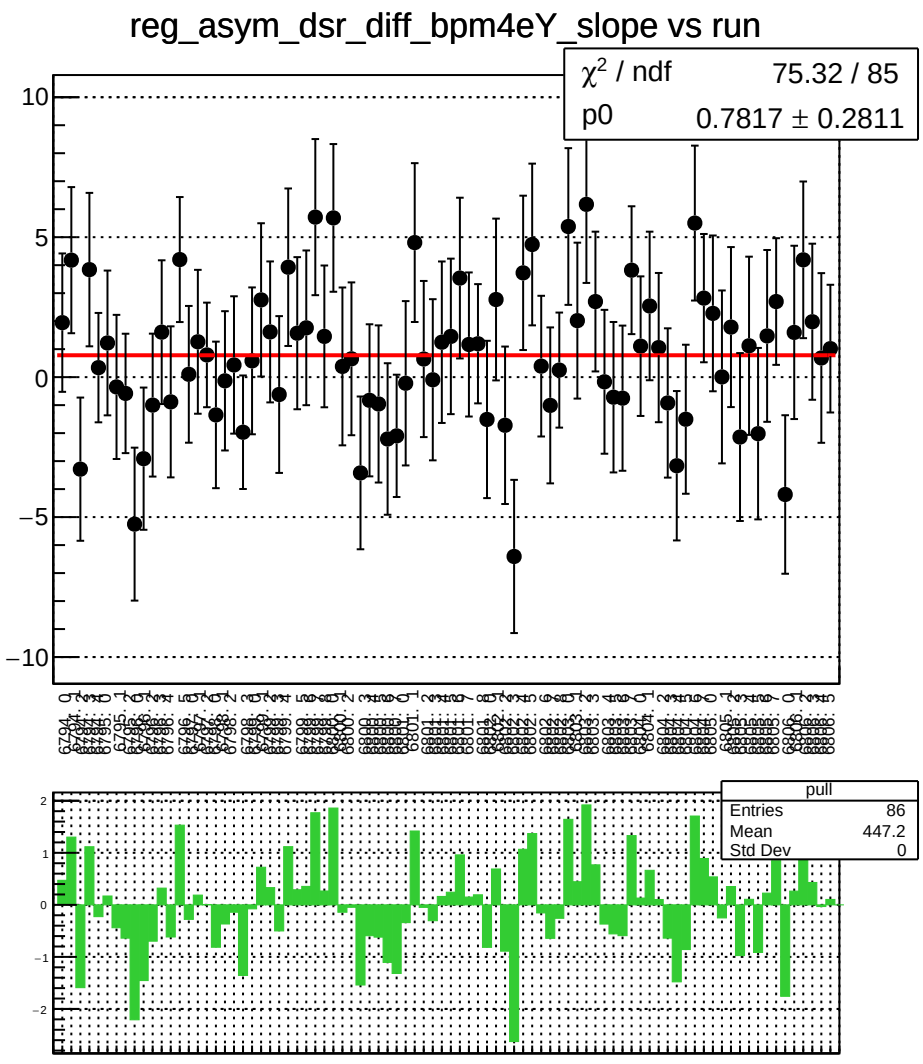

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 94.2 / 85
p0 −0.01521± 0.4279
pull
Entries 86
Mean 370.3
Std Dev 0
pull1D
Entries 86
Mean −0.006811
Std Dev 1.047

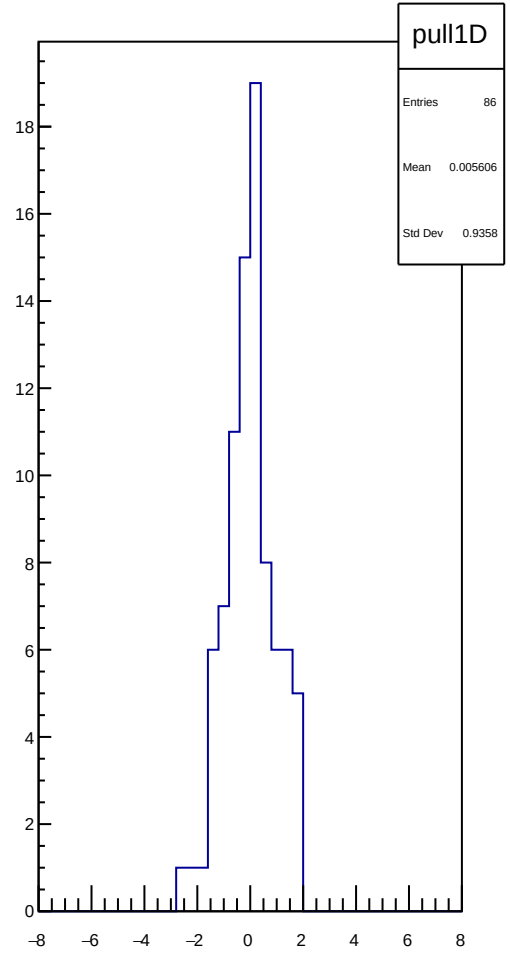

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 73.07 / 85
p0 −0.5928 ± 0.202
pull
Entries 86
Mean 561
Std Dev 0

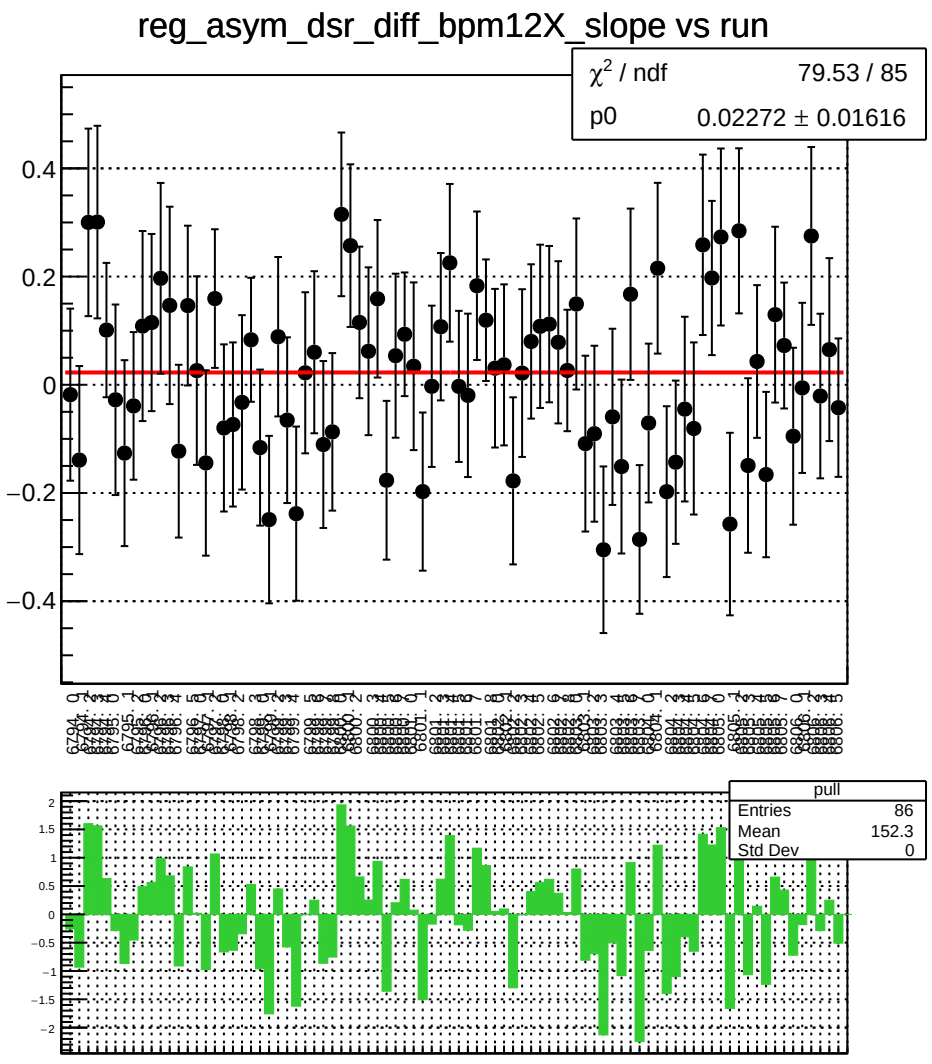

pull1D
Entries 86
Mean −0.005458
Std Dev 0.9218

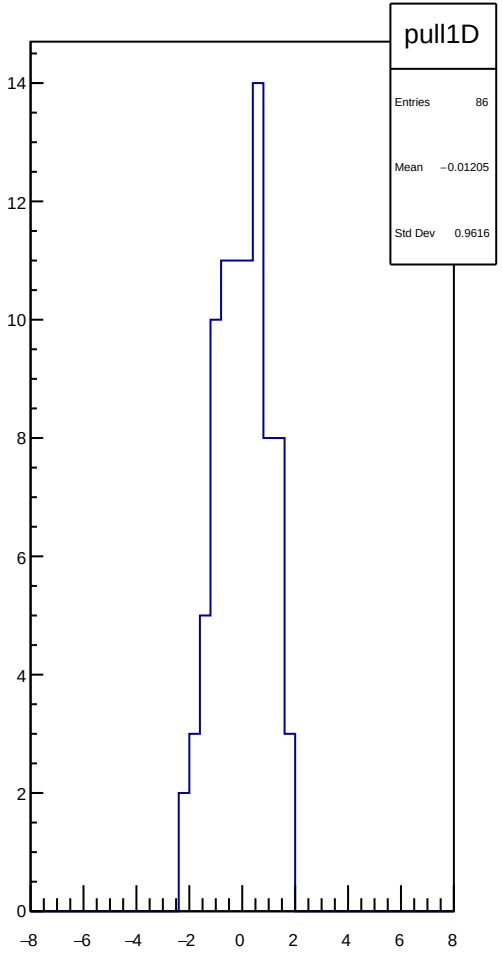

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 92.59 / 85
p0 −0.01363 ± 0.4005
pull
Entries 86
Mean 398.9
Std Dev 0

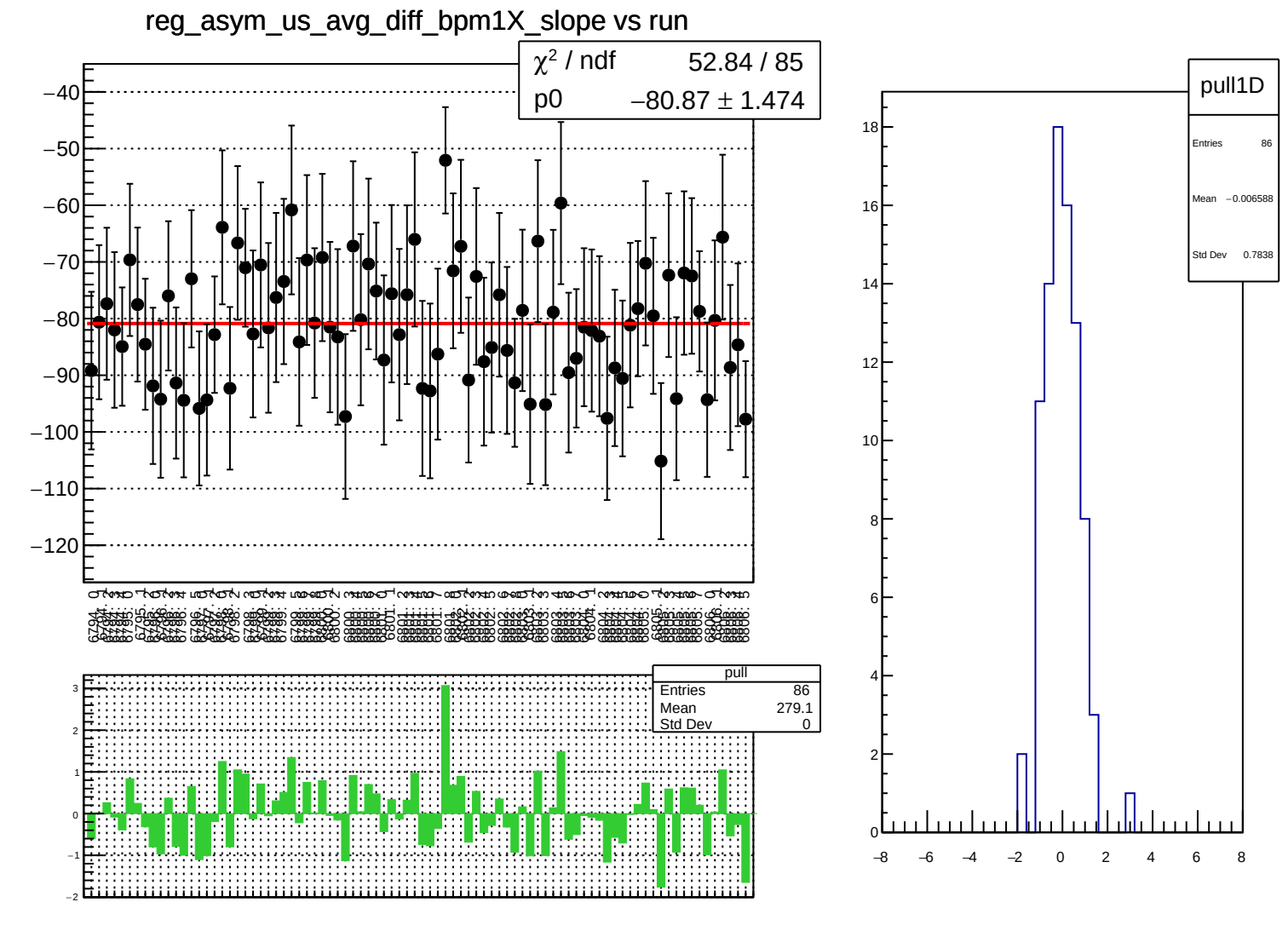

pull1D
Entries 86
Mean 0.007947
Std Dev 1.038

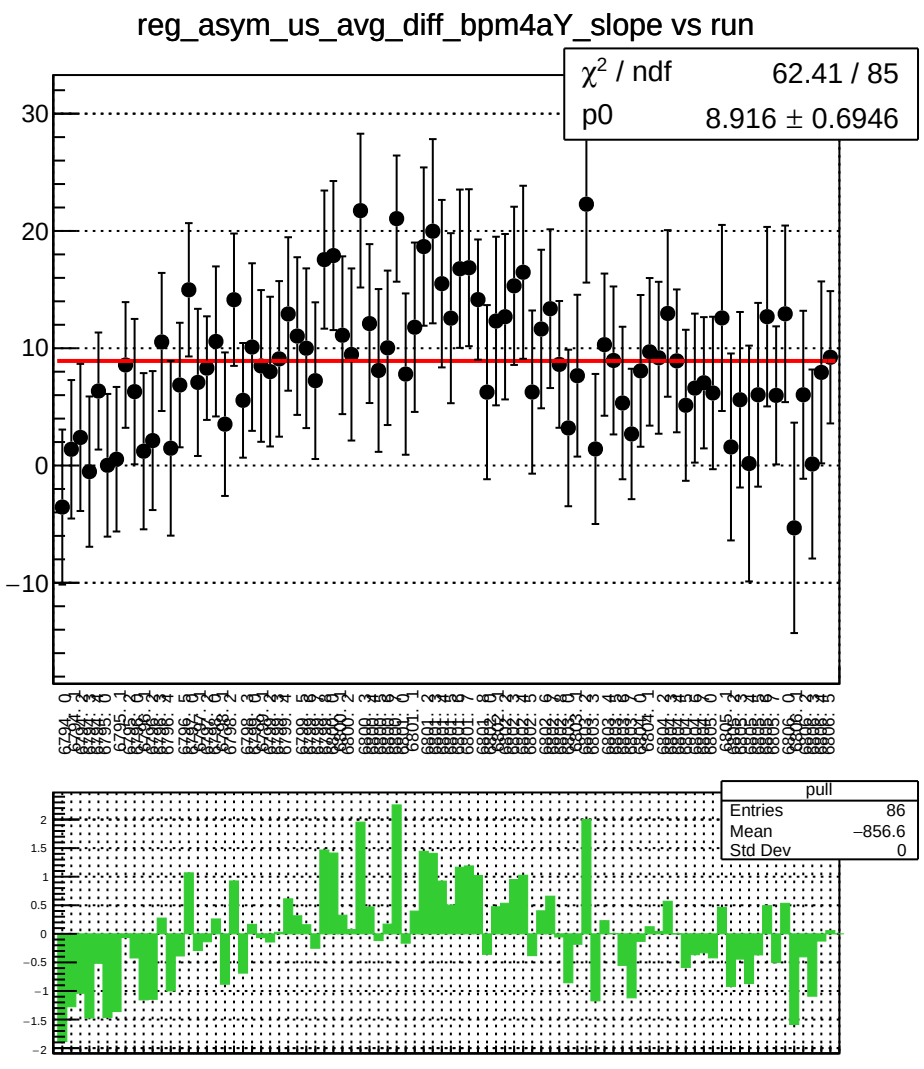

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 75.32 / 85
p0 0.7817 ± 0.2811
pull
Entries 86
Mean 447.2
Std Dev 0

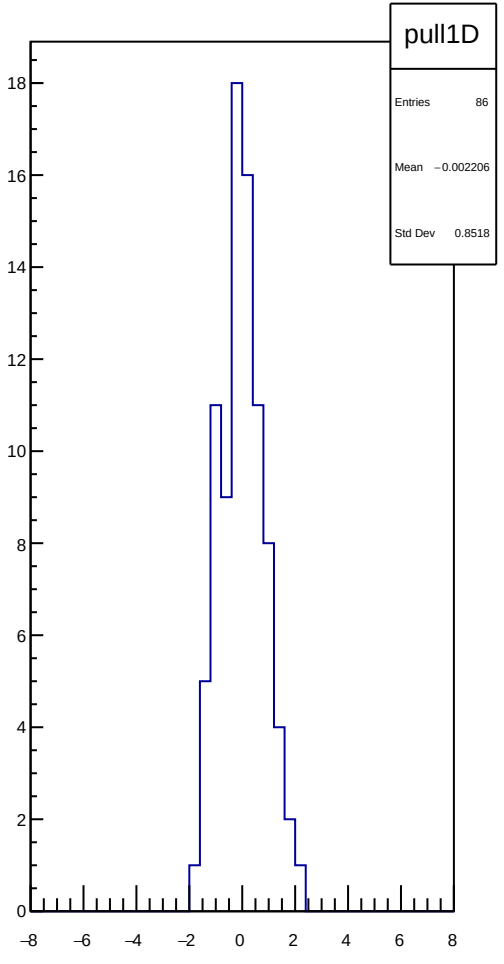

pull1D
Entries 86
Mean 0.005606
Std Dev 0.9358

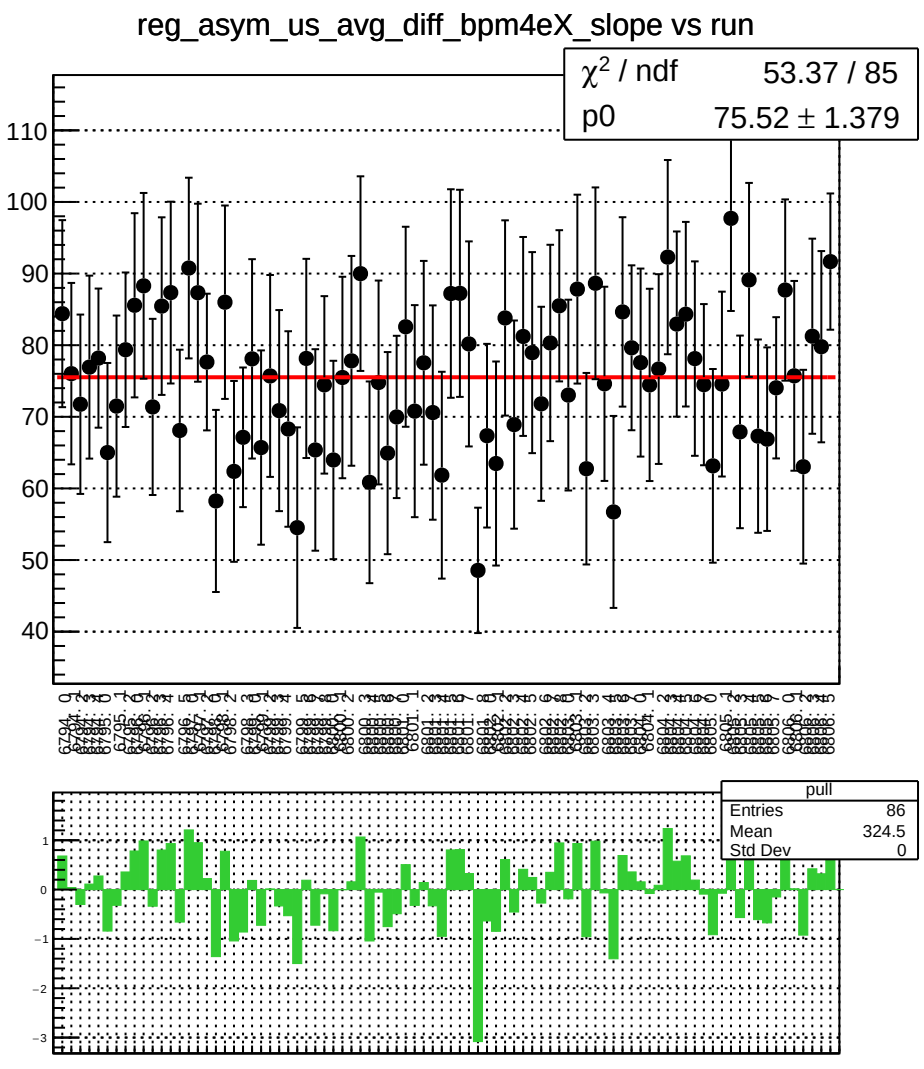

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 79.53 / 85
p0 0.02272 ± 0.01616
pull
Entries 86
Mean 152.3
Std Dev 0

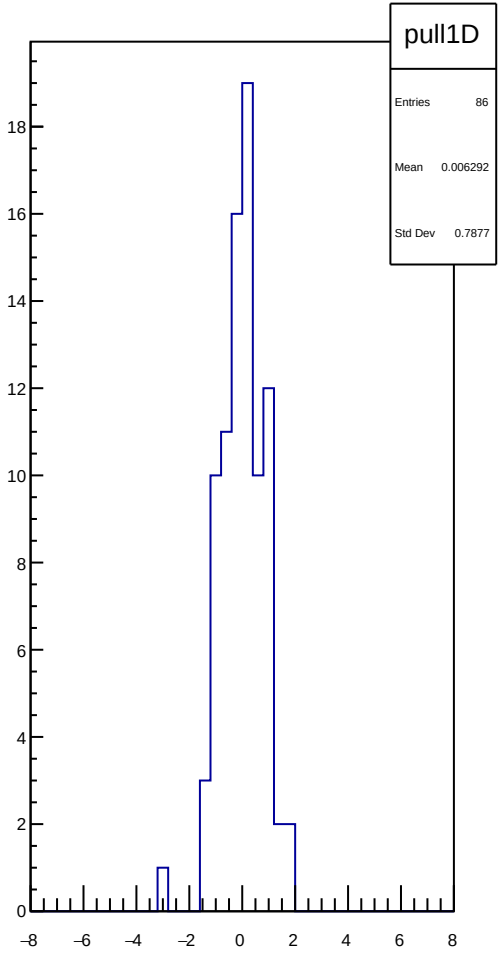

pull1D
Entries 86
Mean −0.01205
Std Dev 0.9616

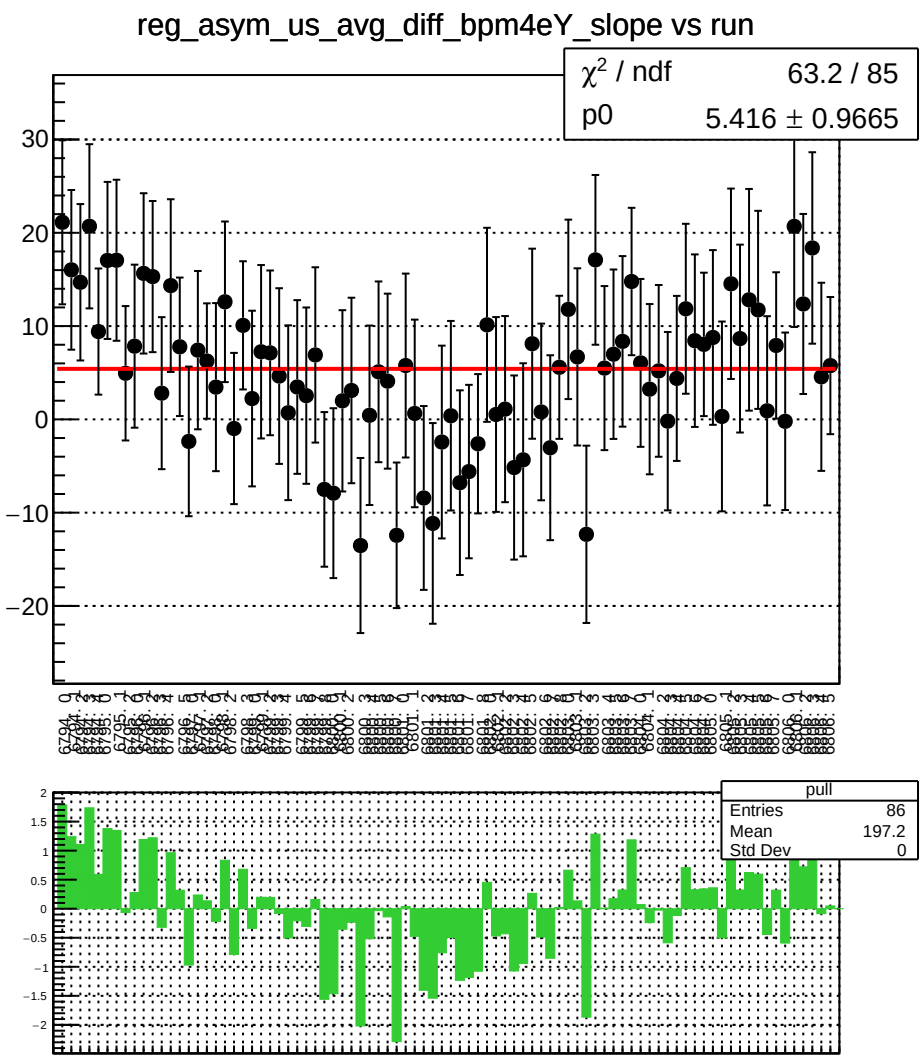

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 52.84 / 85
p0 −80.87 ± 1.474
pull
Entries 86
Mean 279.1
Std Dev 0
pull1D
Entries 86
Mean −0.006588
Std Dev 0.7838

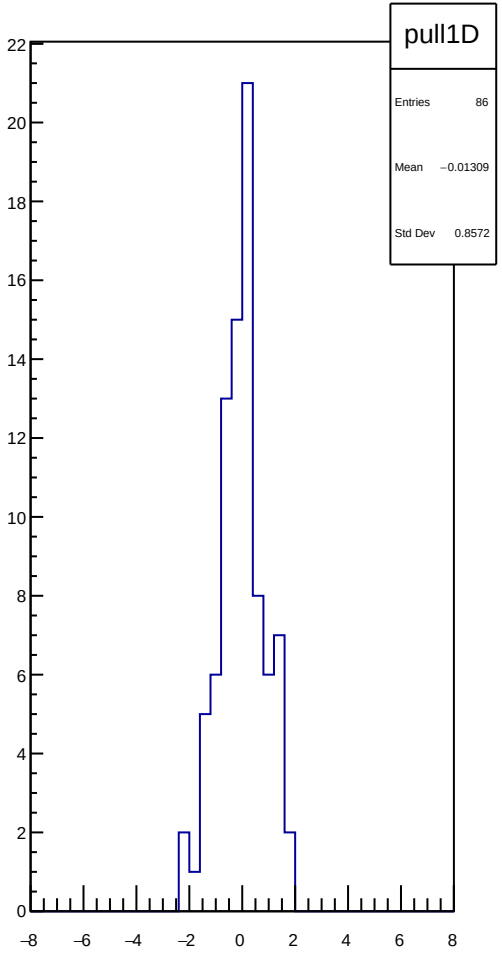

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 62.41 / 85
p0 8.916 ± 0.6946
pull
Entries 86
Mean −856.6
Std Dev 0

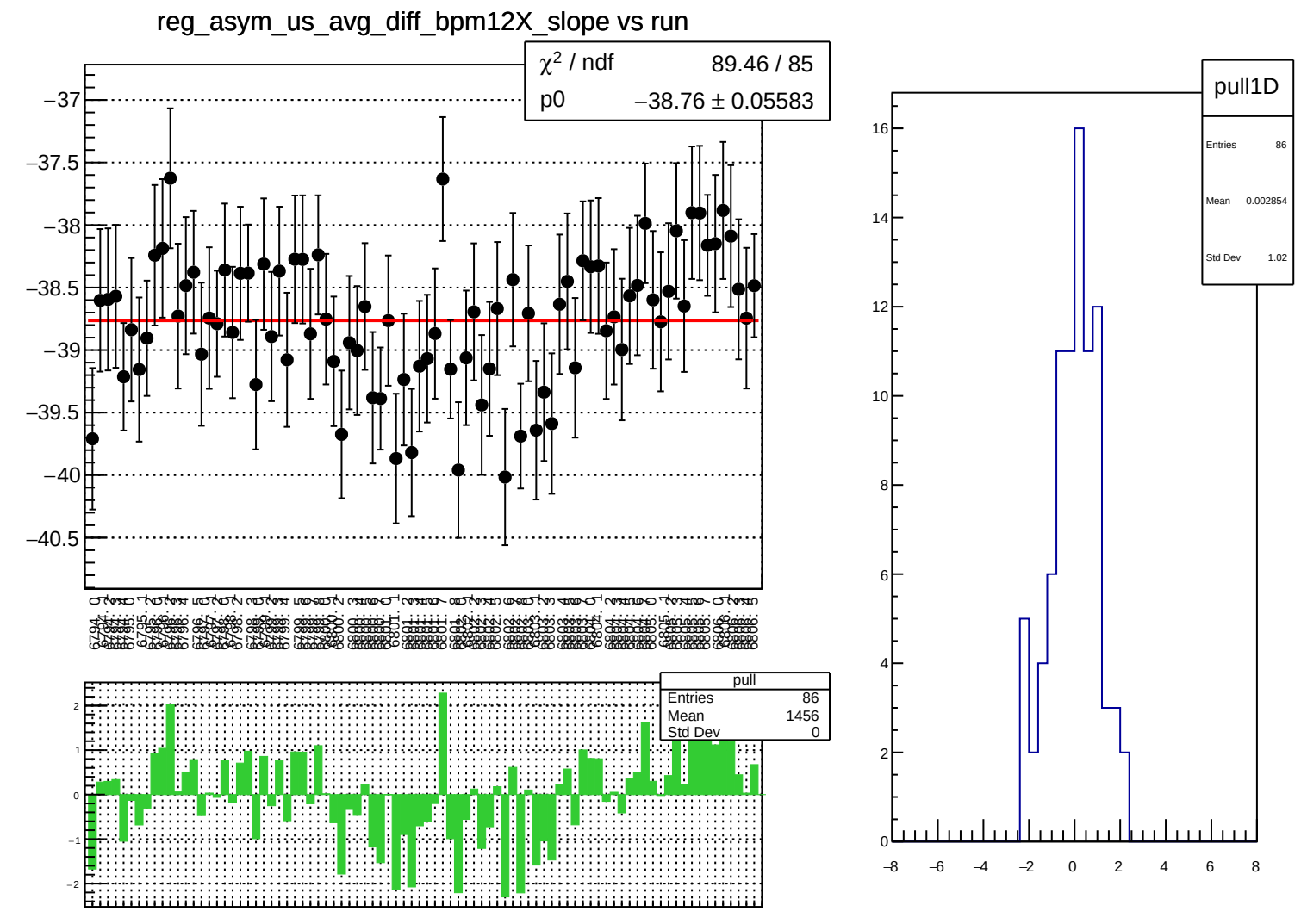

pull1D
Entries 86
Mean −0.002206
Std Dev 0.8518

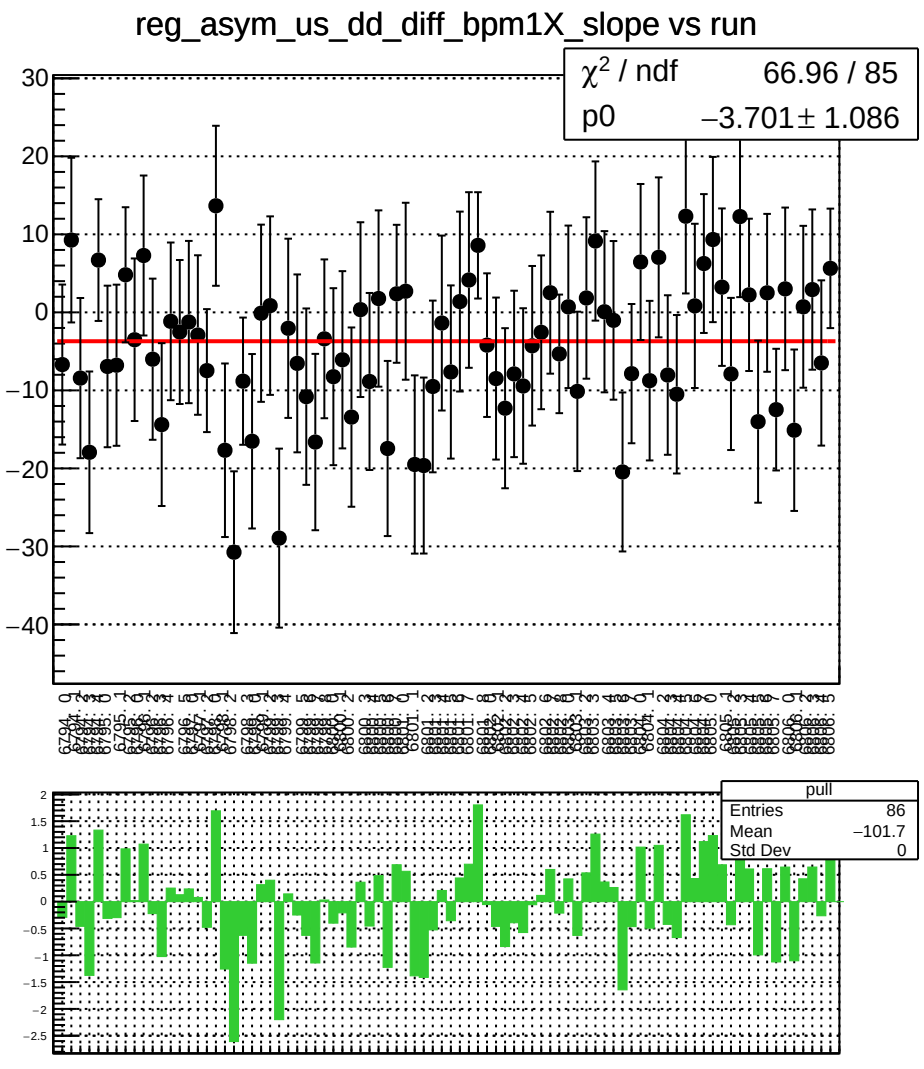

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 53.37 / 85
p0 75.52 ± 1.379
pull
Entries 86
Mean 324.5
Std Dev 0

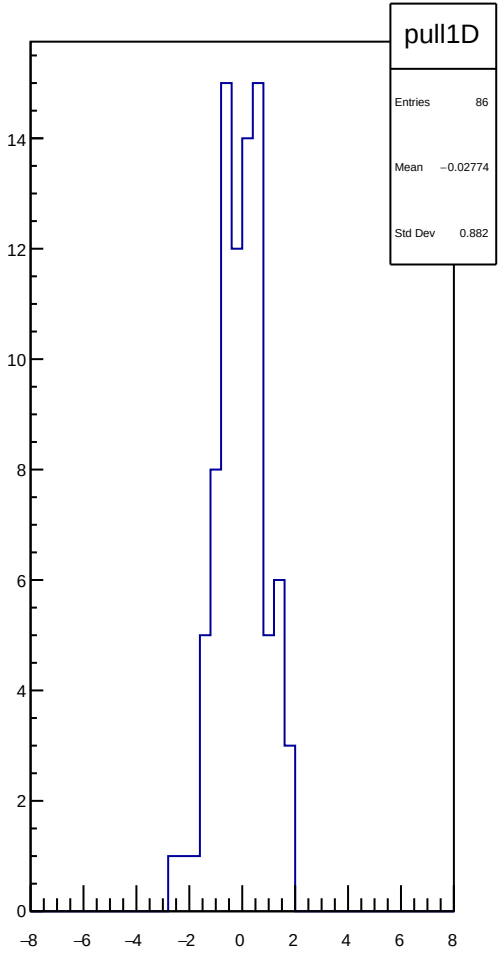

pull1D
Entries 86
Mean 0.006292
Std Dev 0.7877

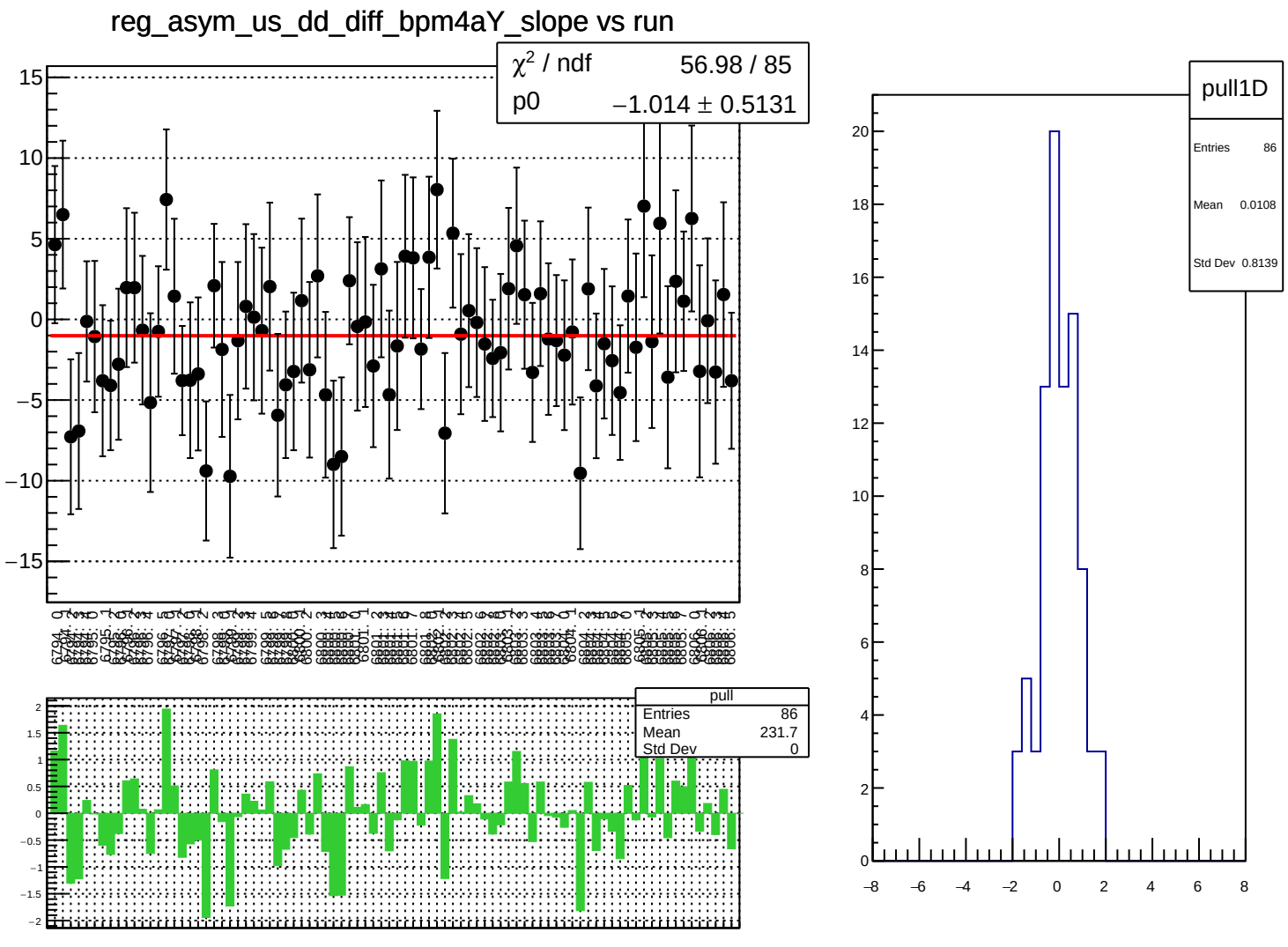

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 63.2 / 85
p0 5.416 ± 0.9665
pull
Entries 86
Mean 197.2
Std Dev 0

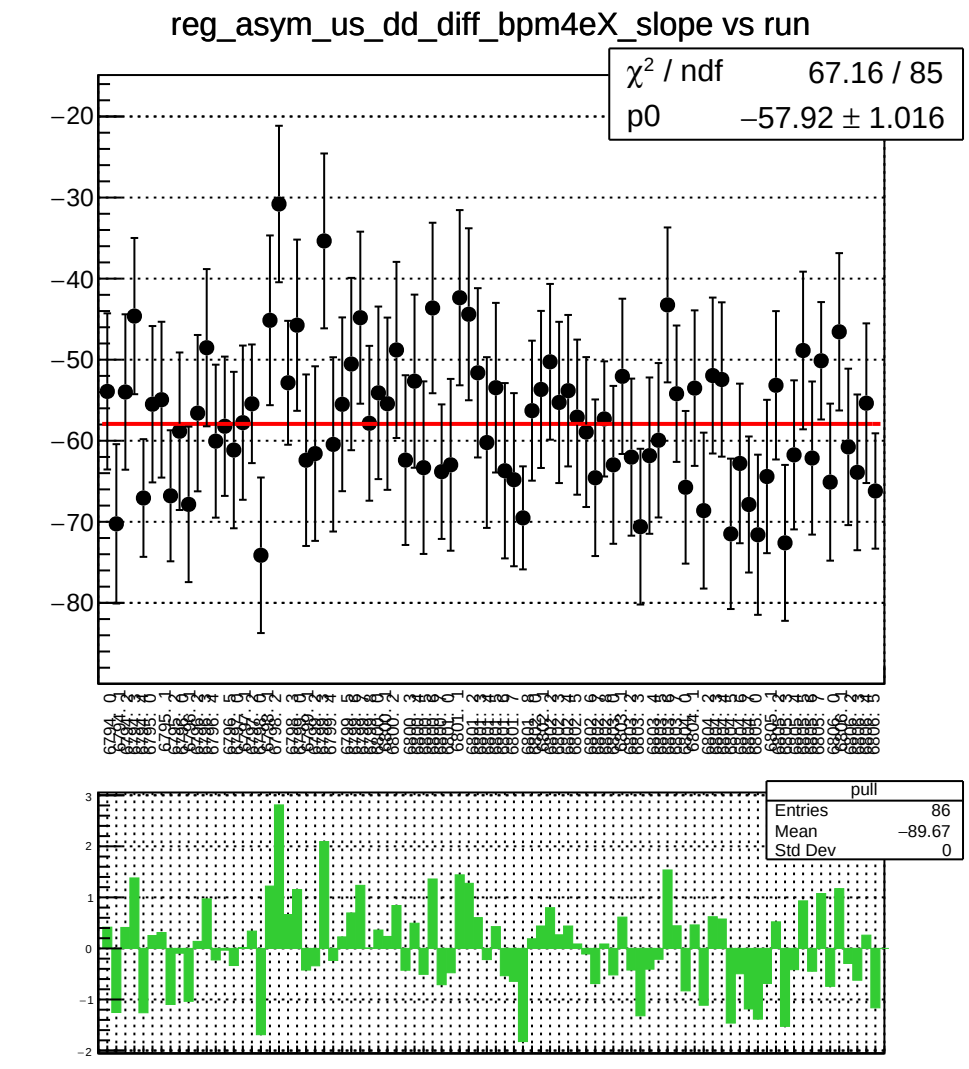

pull1D
Entries 86
Mean −0.01309
Std Dev 0.8572

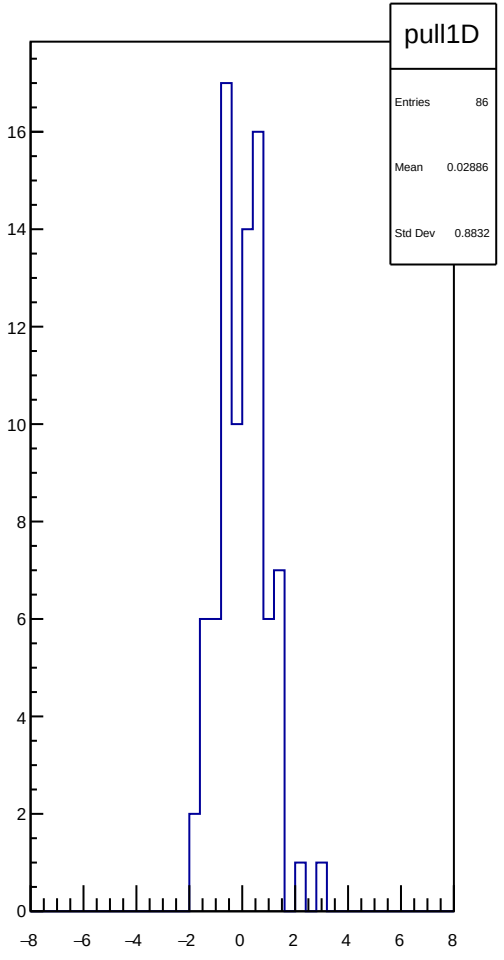

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 89.46 / 85
p0 −38.76 ± 0.05583
pull
Entries 86
Mean 1456
Std Dev 0
pull1D
Entries 86
Mean 0.002854
Std Dev 1.02

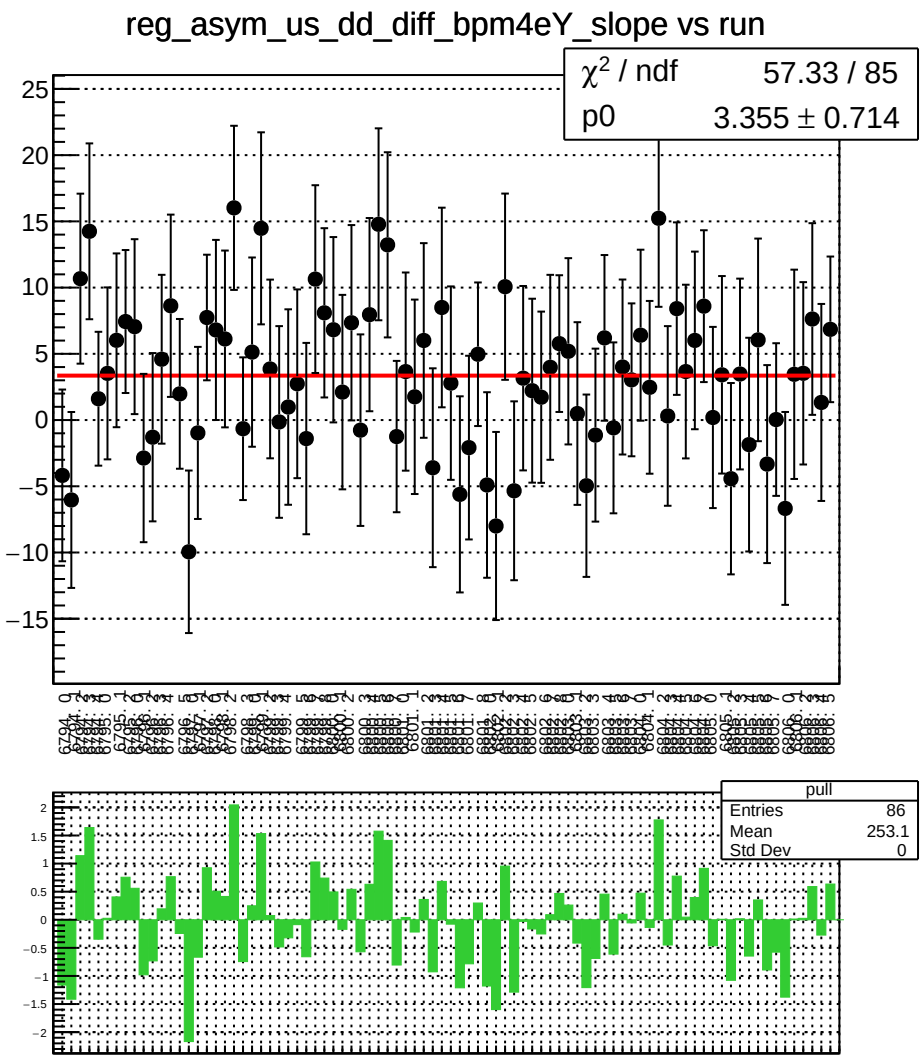

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 66.96 / 85
p0 −3.701 ± 1.086
pull
Entries 86
Mean −101.7
Std Dev 0

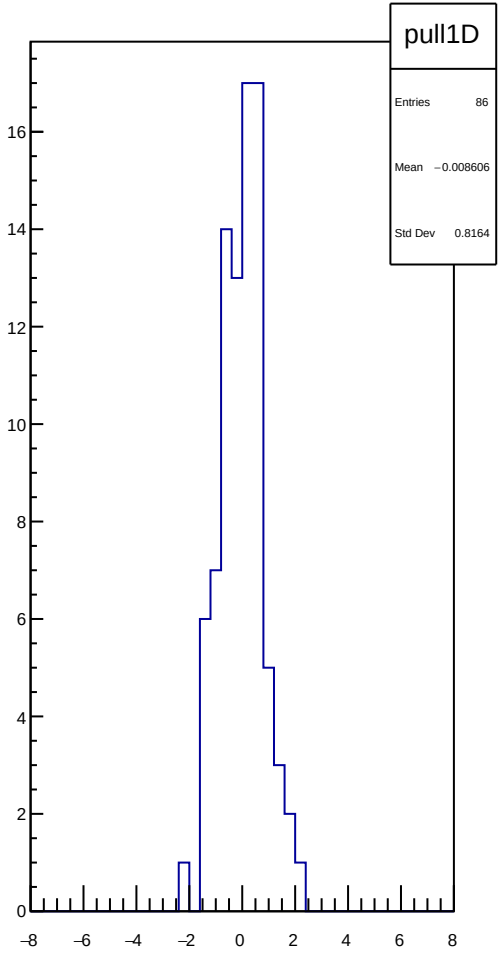

pull1D
Entries 86
Mean −0.02774
Std Dev 0.882

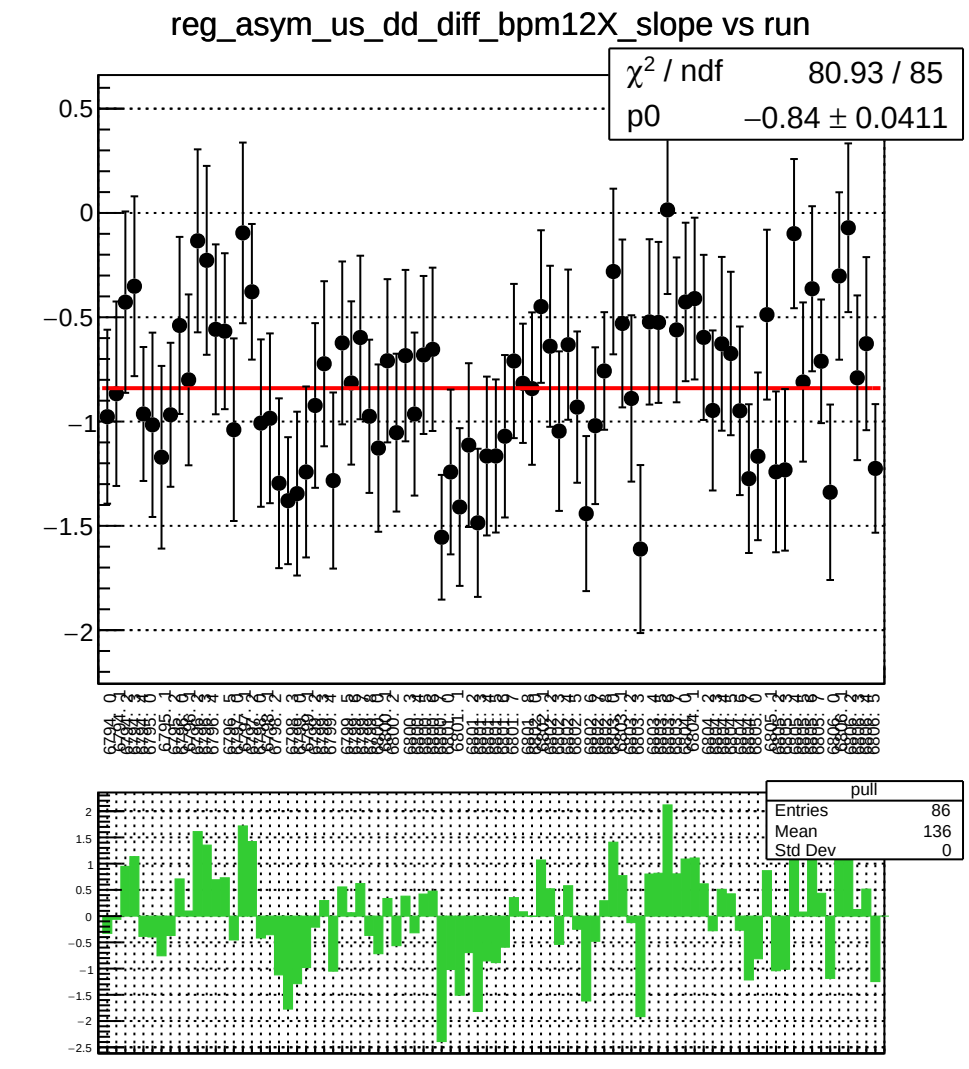

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 56.98 / 85
p0 −1.014 ± 0.5131
pull
Entries 86
Mean 231.7
Std Dev 0
pull1D
Entries 86
Mean 0.0108
Std Dev 0.8139

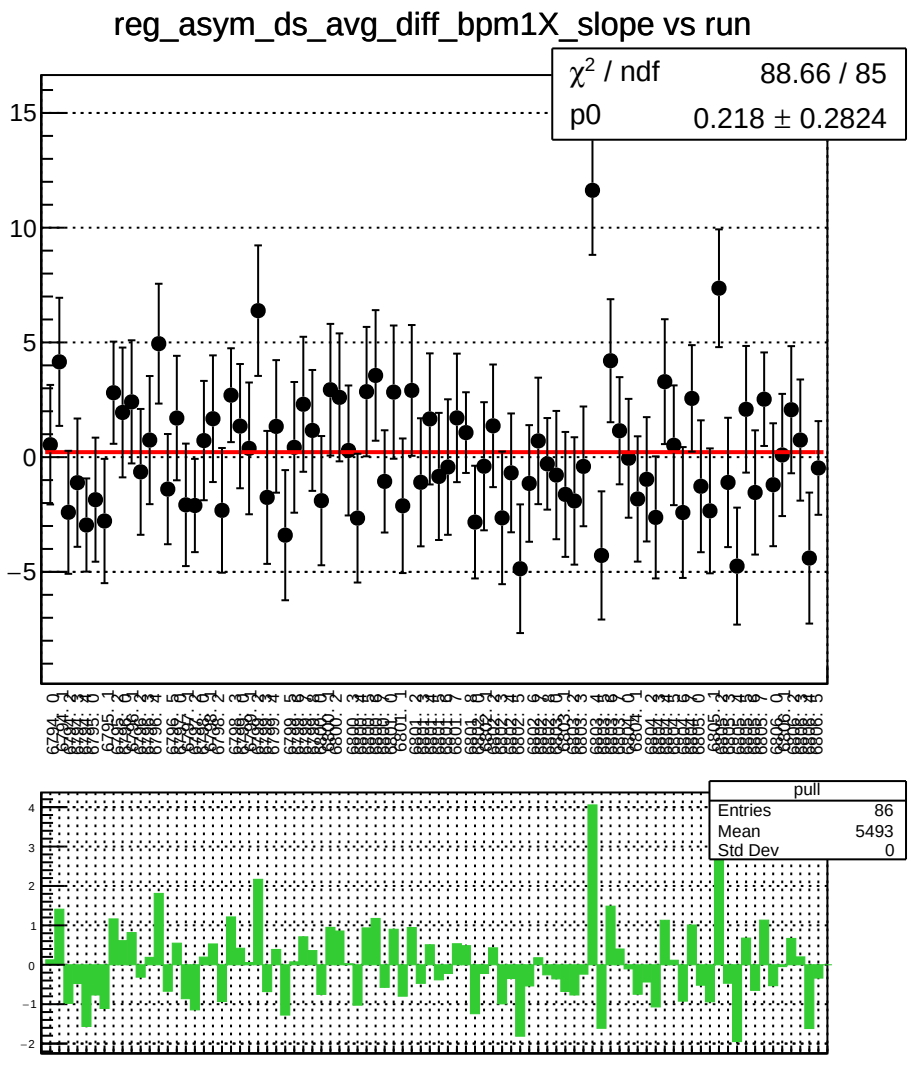

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.16 / 85
p0 −57.92 ± 1.016
pull
Entries 86
Mean −89.67
Std Dev 0

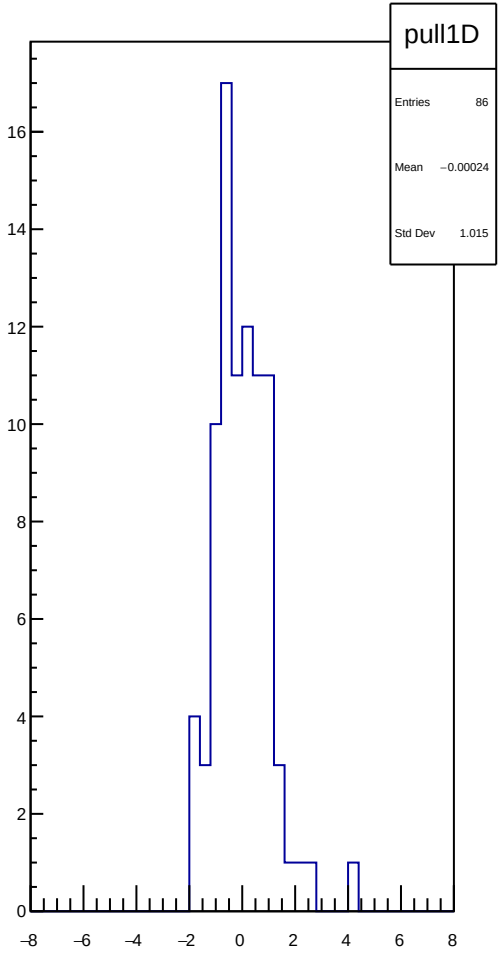

pull1D
Entries 86
Mean 0.02886
Std Dev 0.8832

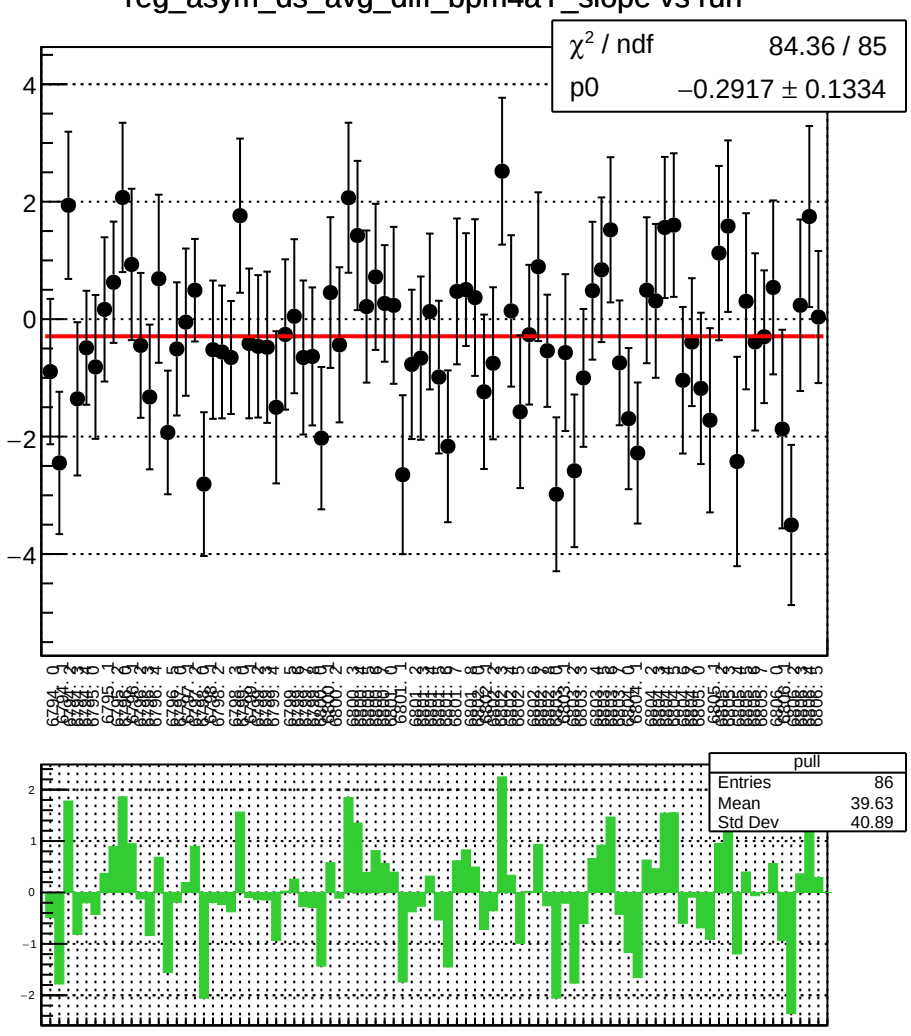

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 57.33 / 85
p0 3.355 ± 0.714
pull
Entries 86
Mean 253.1
Std Dev 0

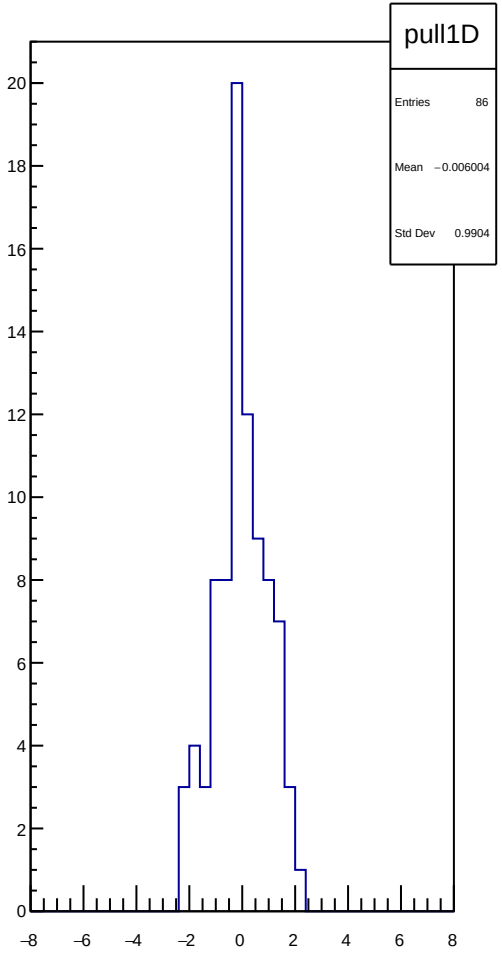

pull1D
Entries 86
Mean −0.008606
Std Dev 0.8164

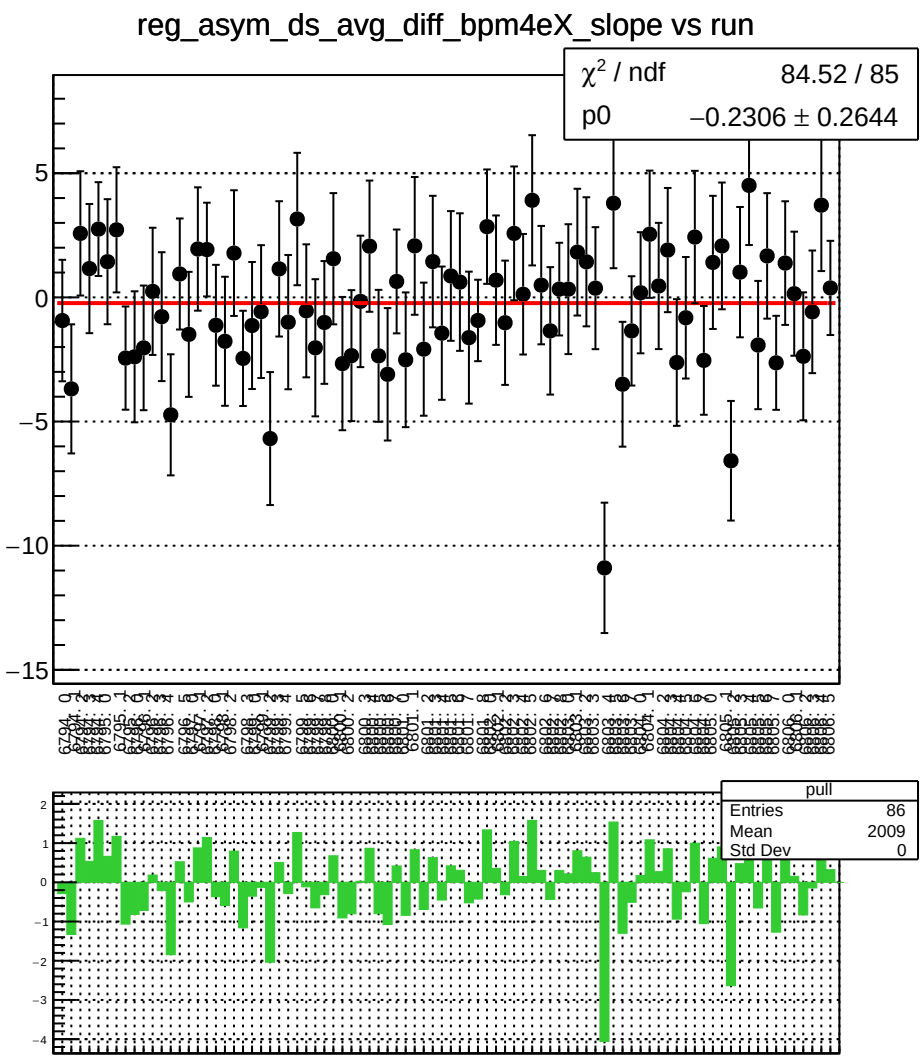

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 80.93 / 85
p0 −0.84 ± 0.0411
pull
Entries 86
Mean 136
Std Dev 0
pull1D
Entries 86
Mean 0.02099
Std Dev 0.9699

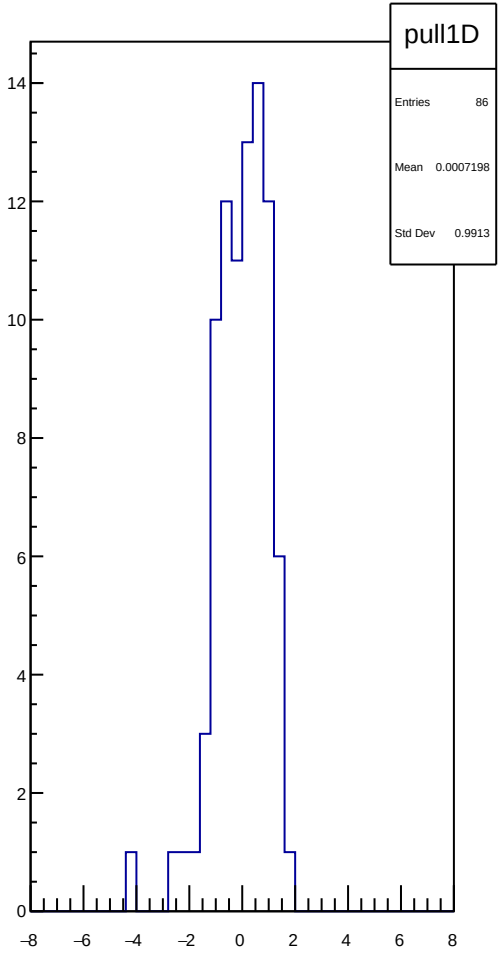

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 88.66 / 85
p0 0.218 ± 0.2824
pull
Entries 86
Mean 5493
Std Dev 0

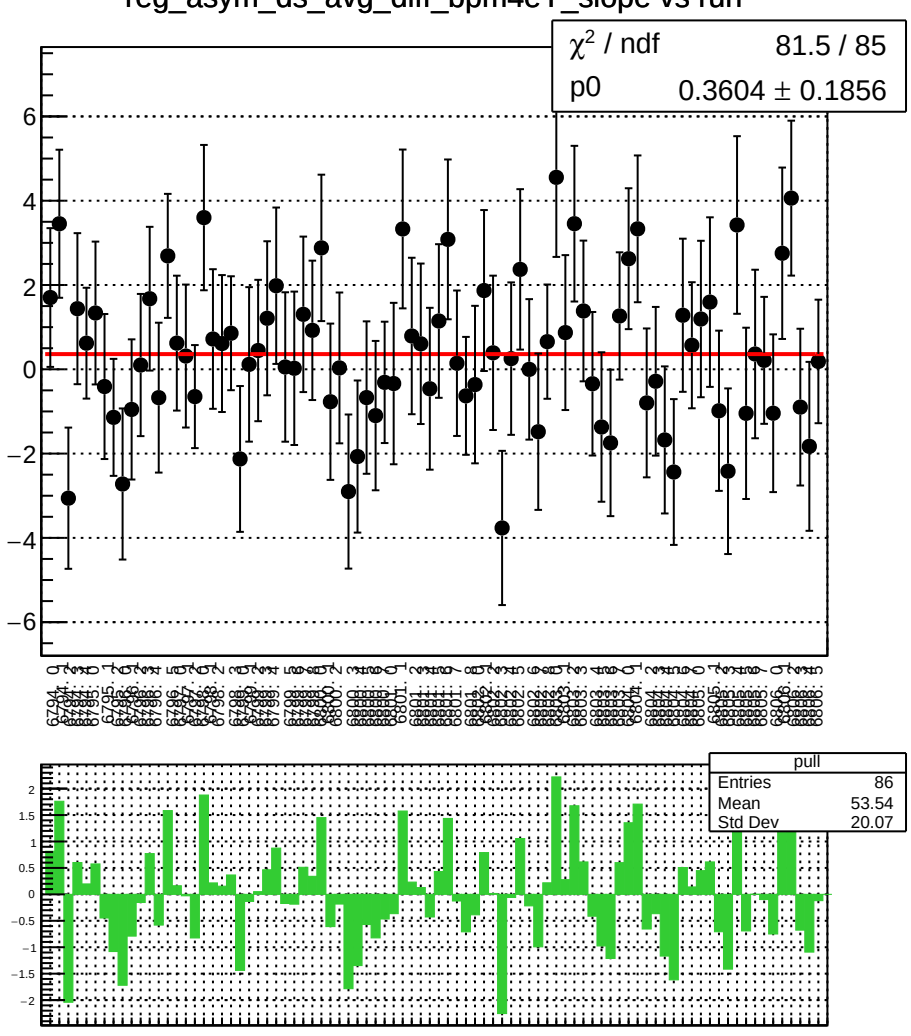

pull1D
Entries 86
Mean −0.00024
Std Dev 1.015

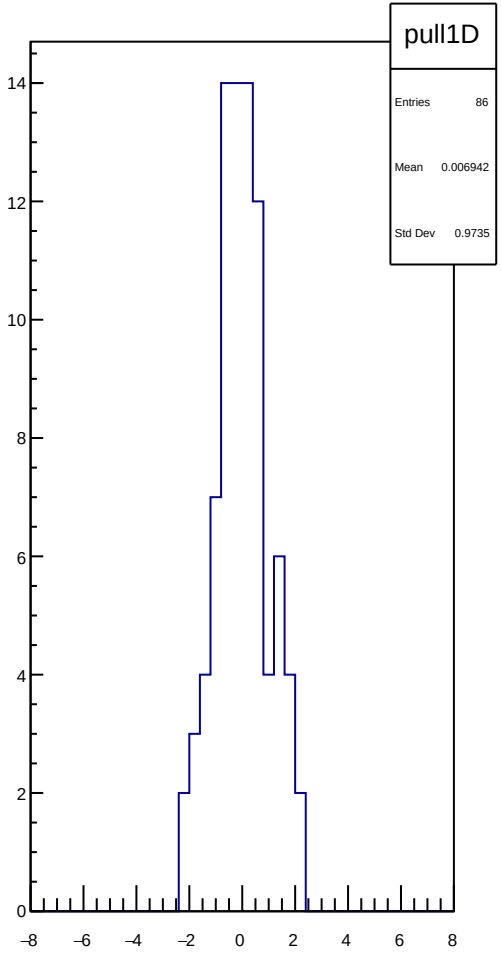

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.36 / 85
p0 −0.2917 ± 0.1334
pull
Entries 86
Mean 39.63
Std Dev 40.89

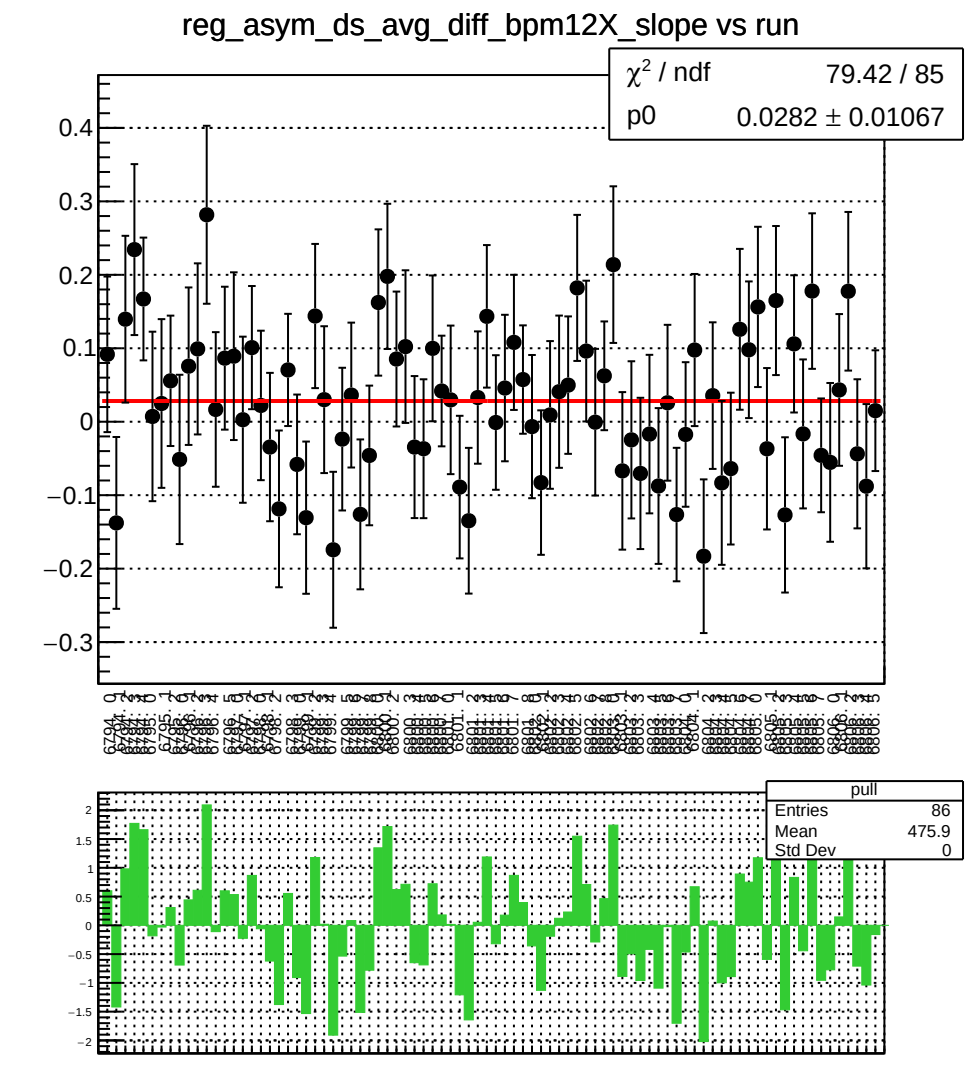

pull1D
Entries 86
Mean −0.006004
Std Dev 0.9904

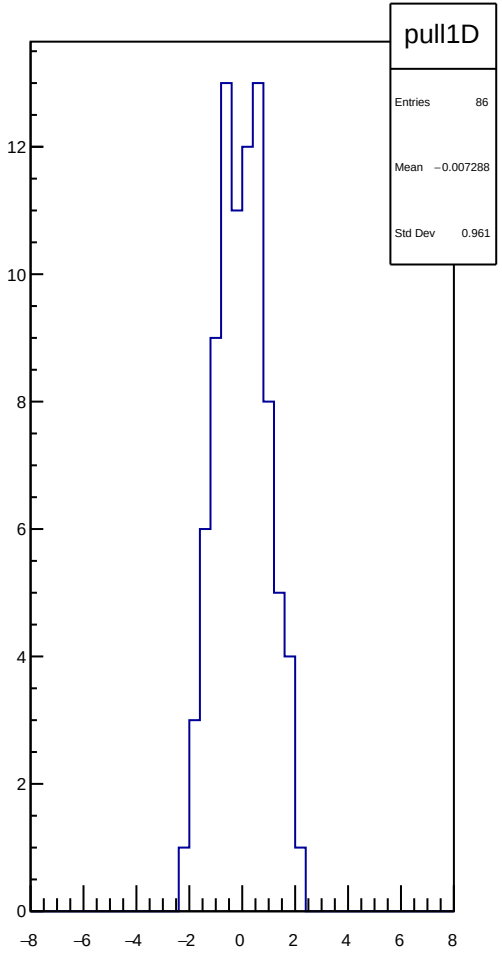

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.52 / 85
p0 −0.2306 ± 0.2644
pull
Entries 86
Mean 2009
Std Dev 0

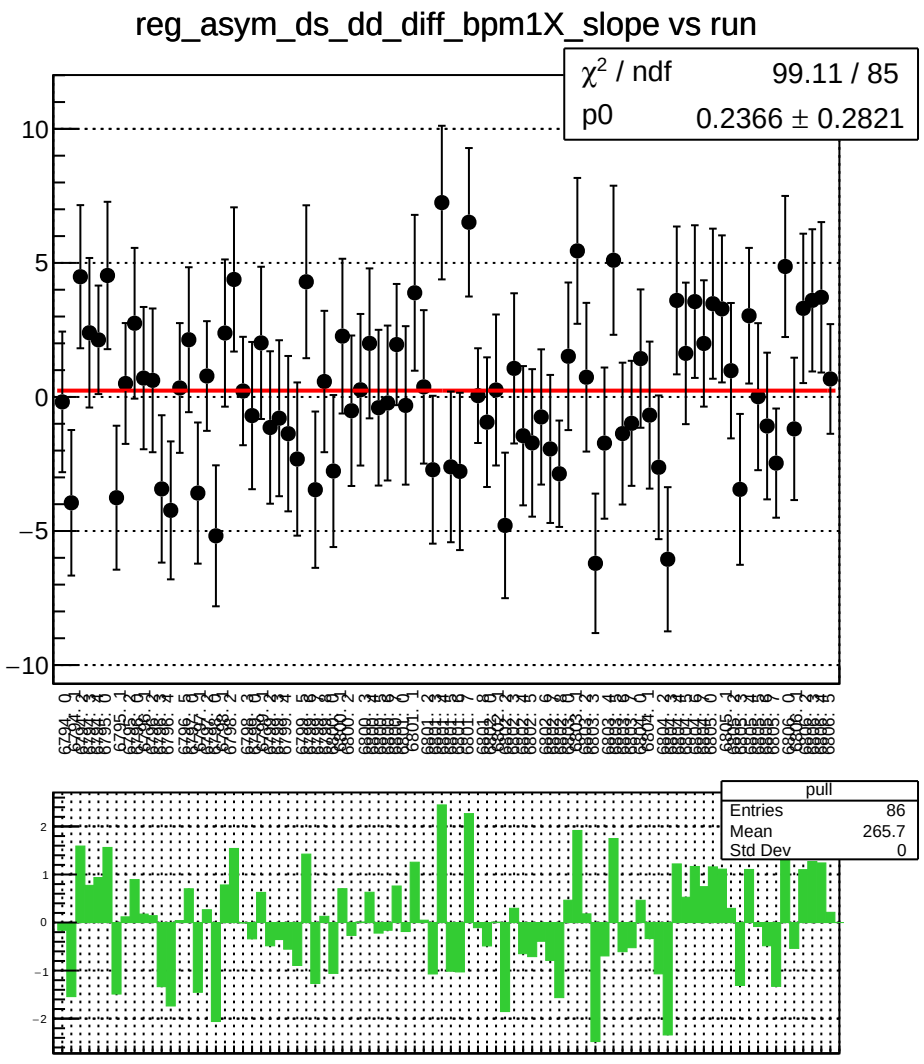

pull1D
Entries 86
Mean 0.0007198
Std Dev 0.9913

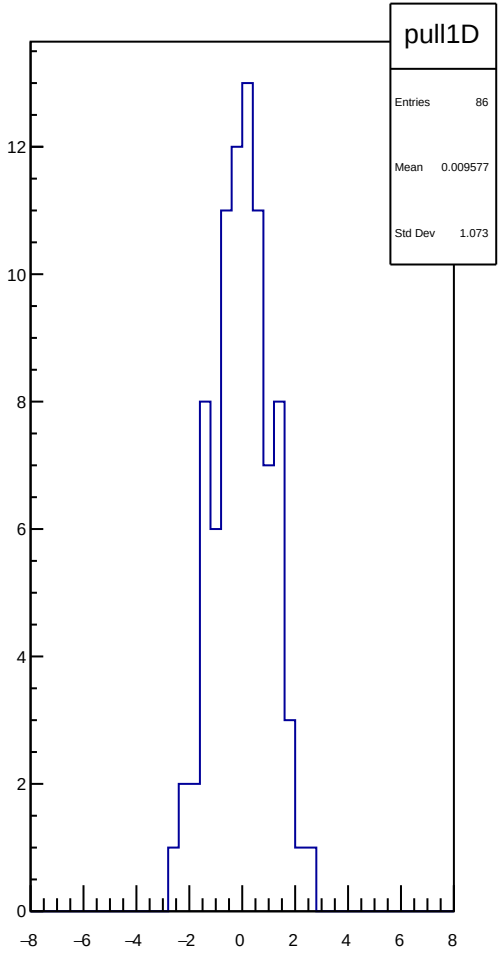

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.5 / 85
p0 0.3604 ± 0.1856
pull
Entries 86
Mean 53.54
Std Dev 20.07

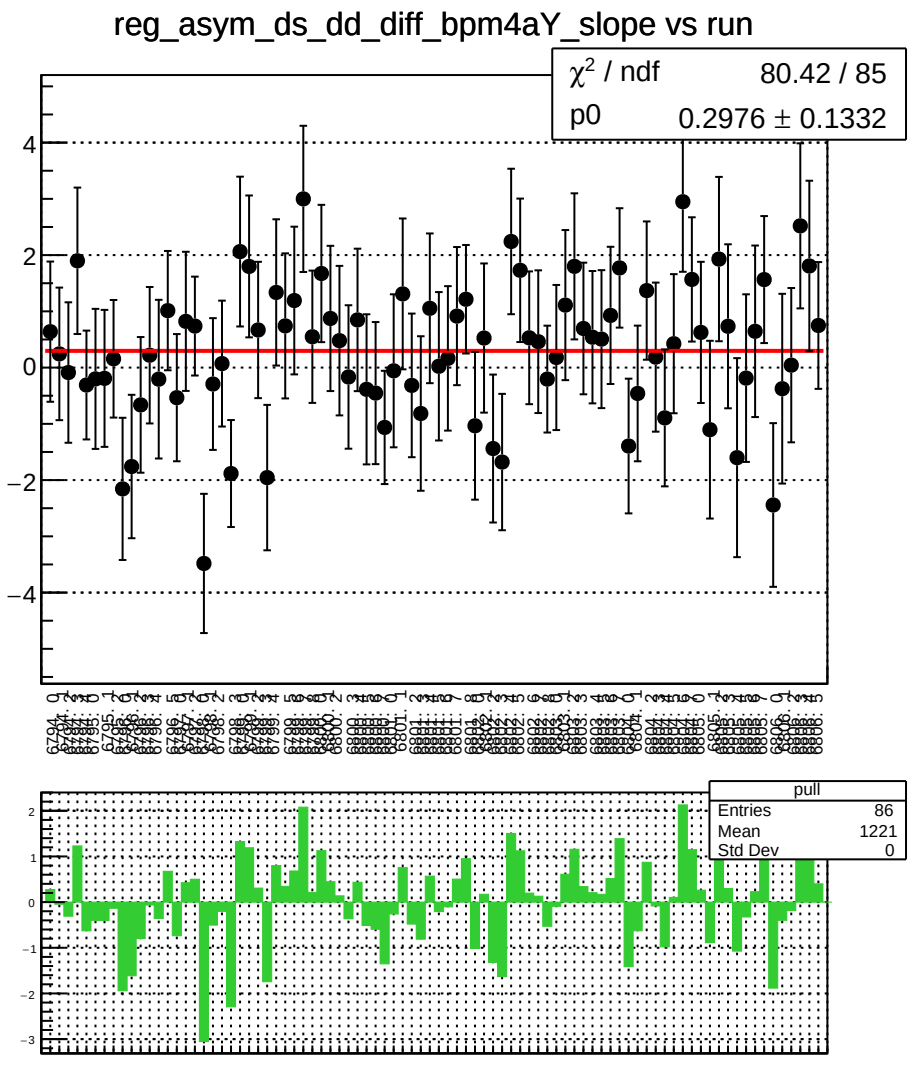

pull1D
Entries 86
Mean 0.006942
Std Dev 0.9735

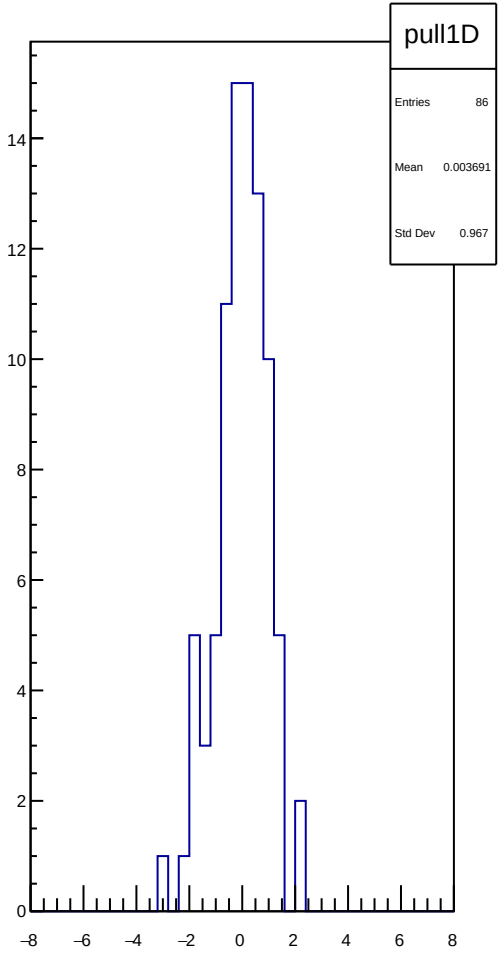

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 79.42 / 85
p0 0.0282 ± 0.01067
pull
Entries 86
Mean 475.9
Std Dev 0

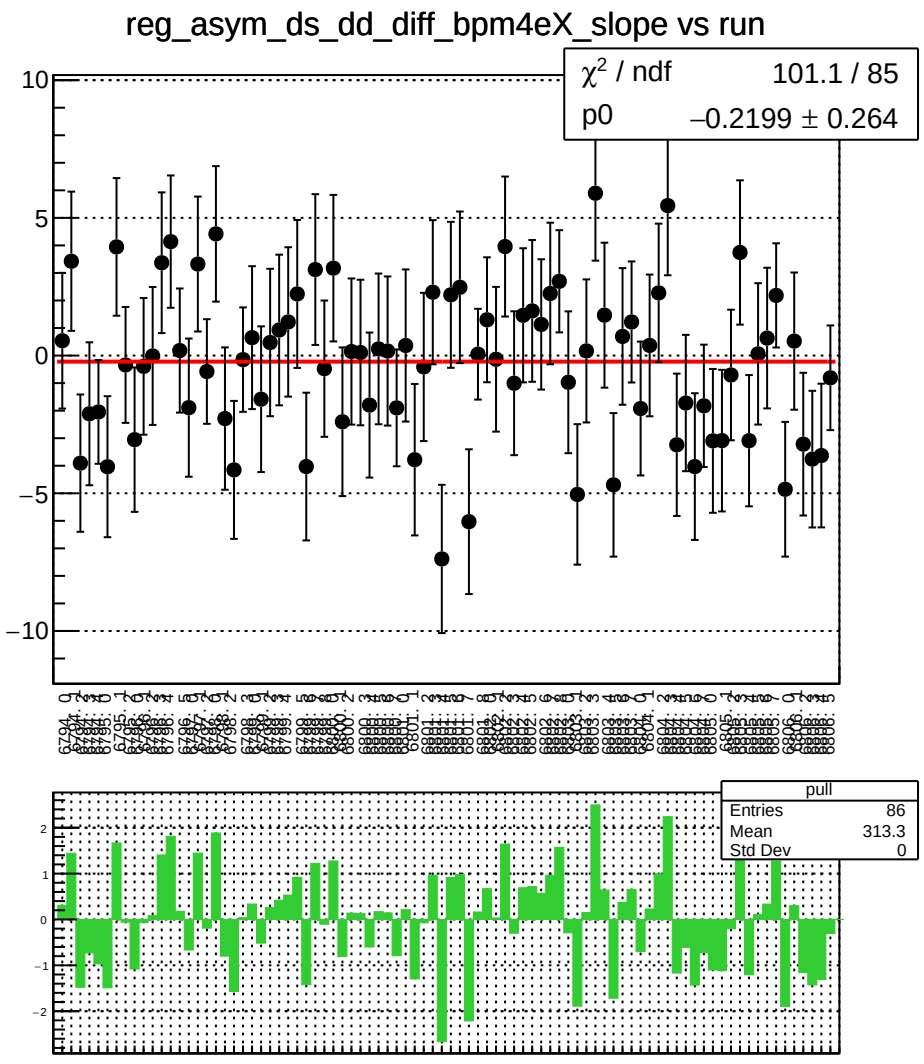

pull1D
Entries 86
Mean −0.007288
Std Dev 0.961

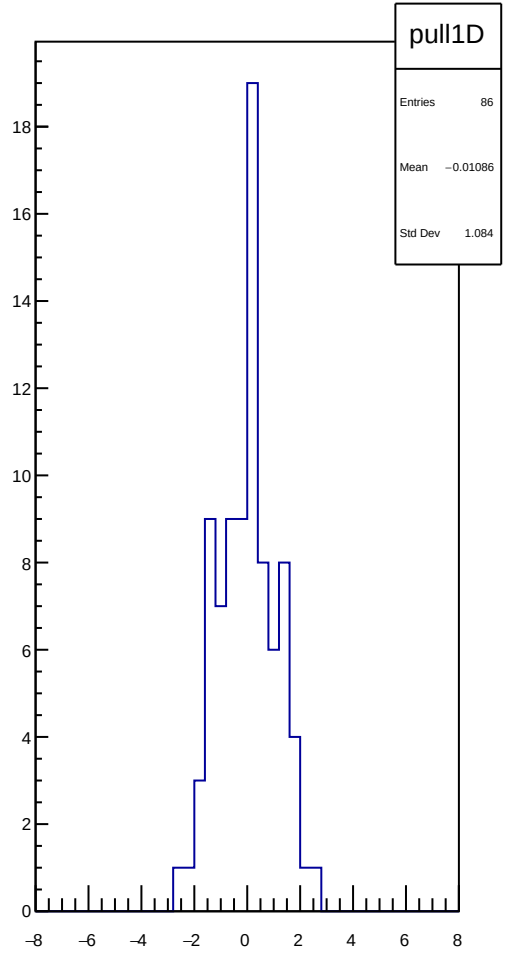

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 99.11 / 85
p0 0.2366 ± 0.2821
pull
Entries 86
Mean 265.7
Std Dev 0

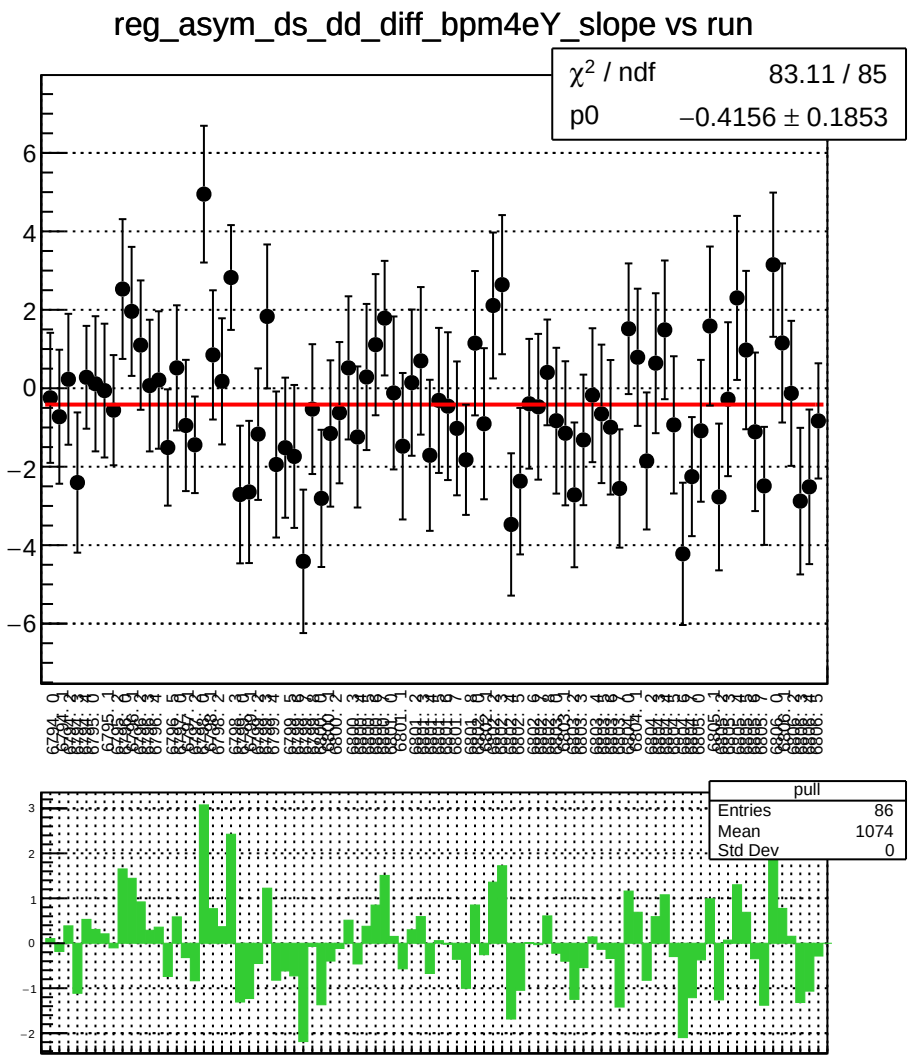

pull1D
Entries 86
Mean 0.009577
Std Dev 1.073

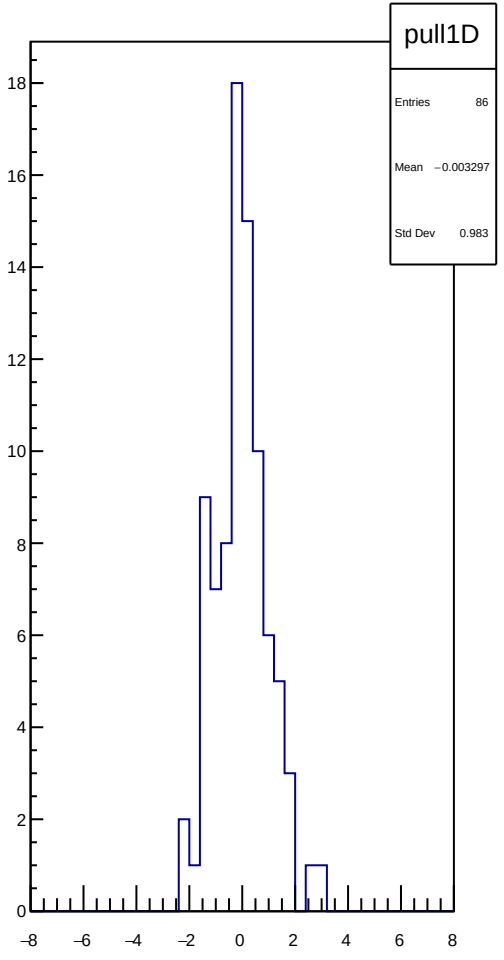

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 80.42 / 85
p0 0.2976 ± 0.1332
pull
Entries 86
Mean 1221
Std Dev 0

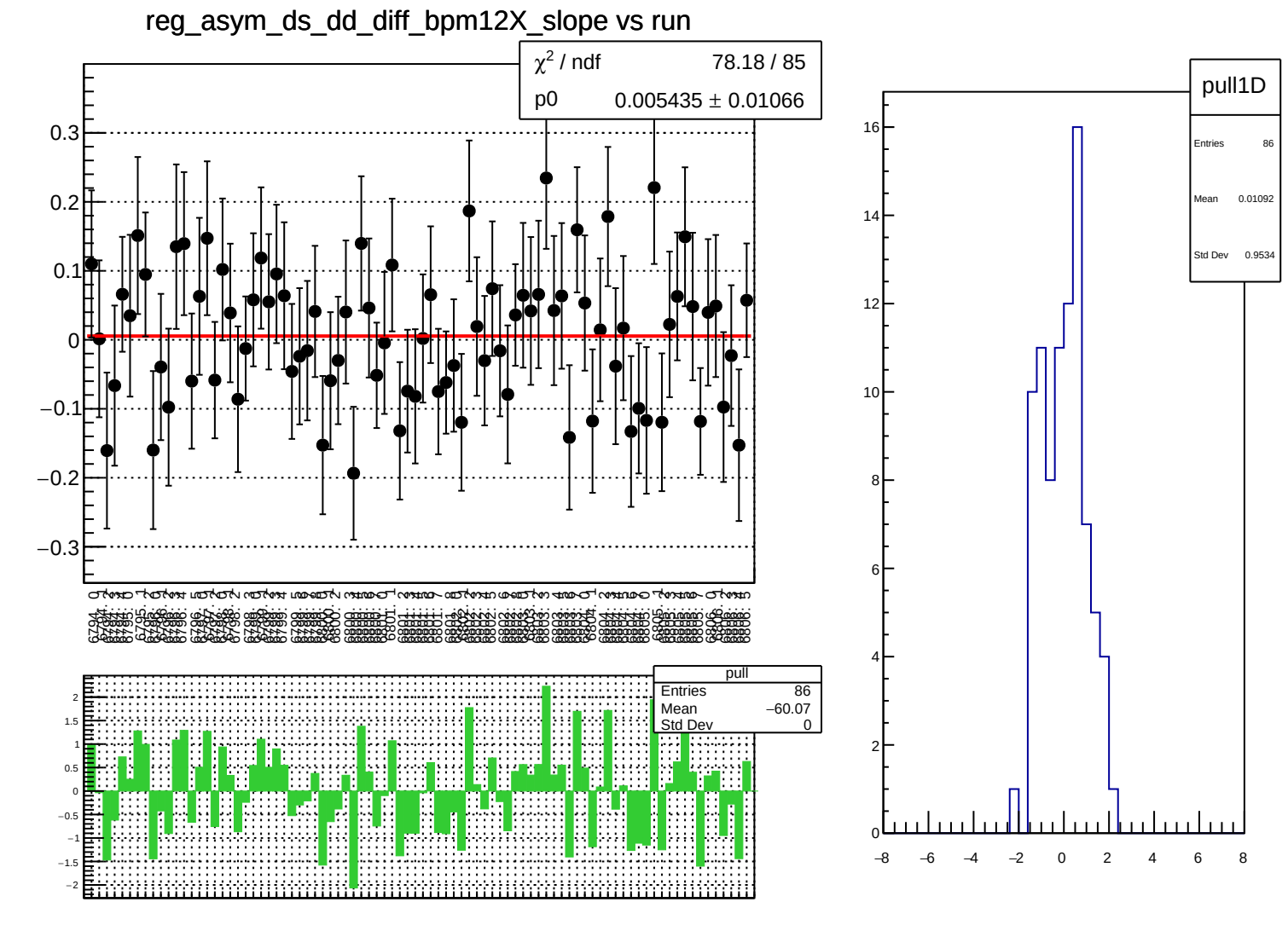

pull1D
Entries 86
Mean 0.003691
Std Dev 0.967

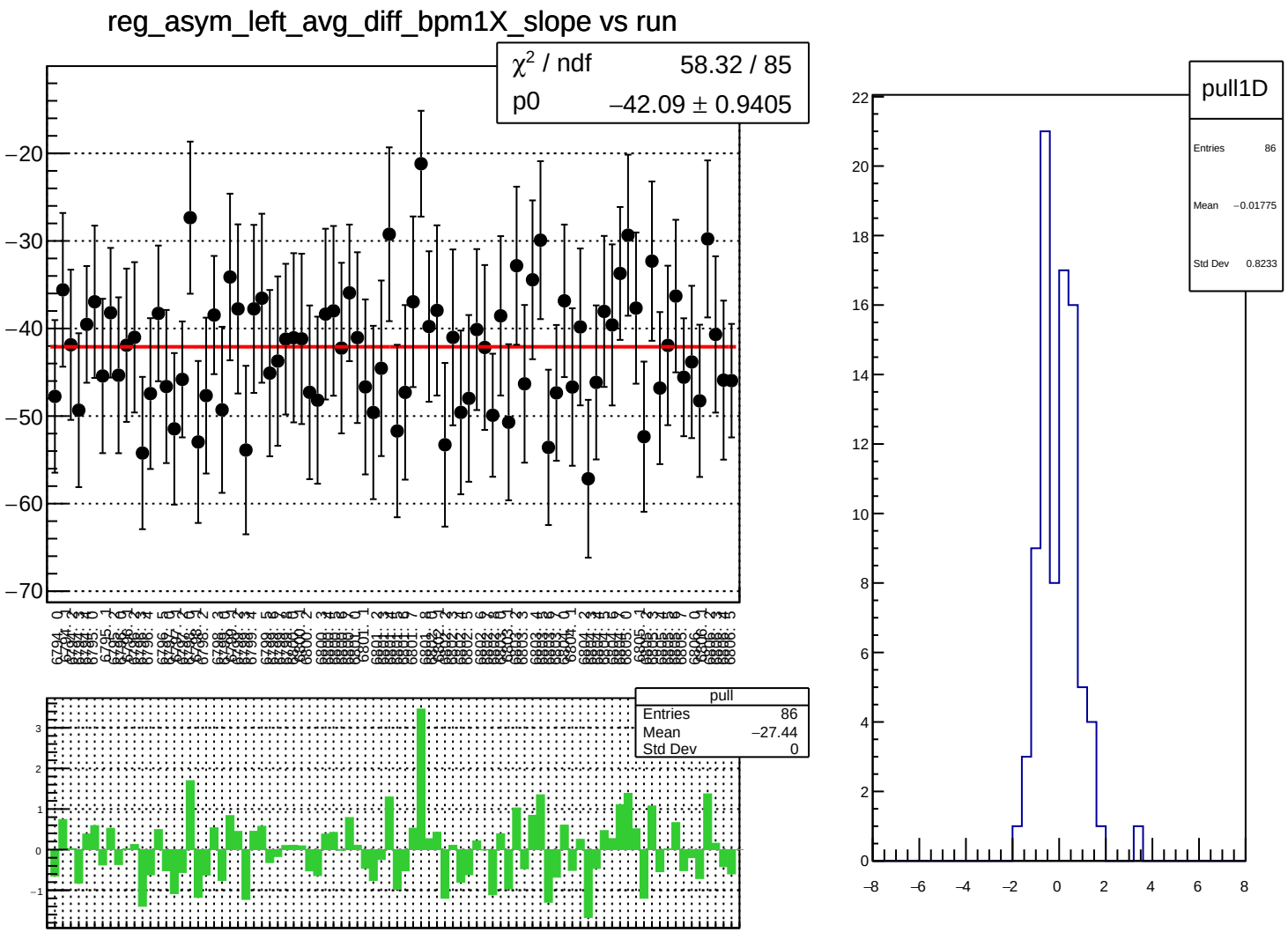

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 101.1 / 85
p0 −0.2199 ± 0.264
pull
Entries 86
Mean 313.3
Std Dev 0

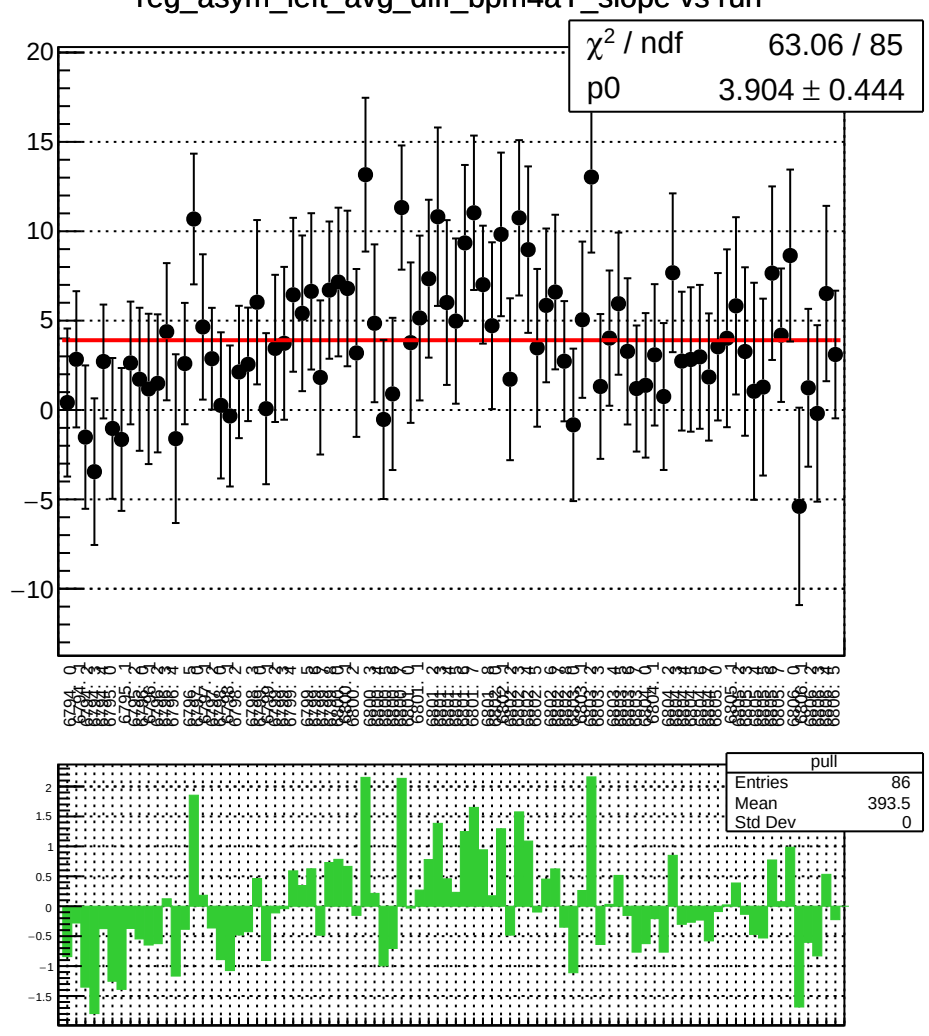

pull1D
Entries 86
Mean −0.01086
Std Dev 1.084

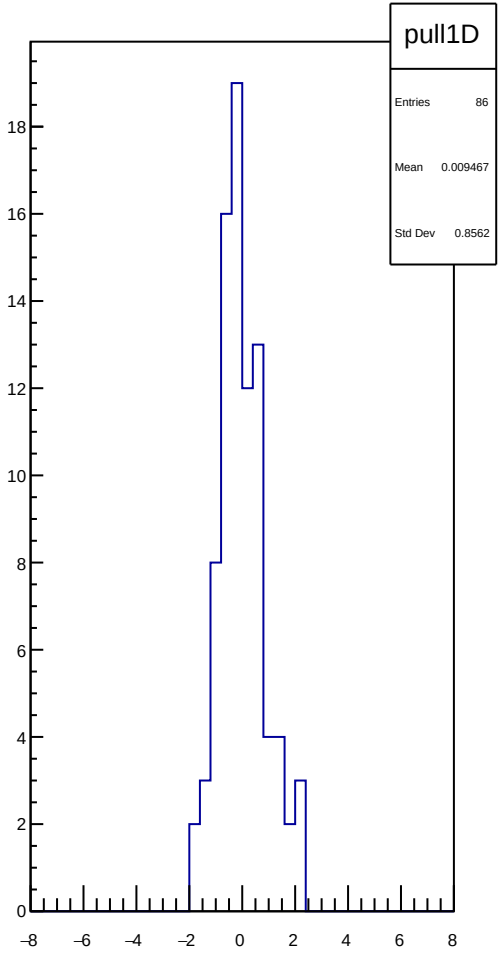

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 83.11 / 85
p0 −0.4156 ± 0.1853
pull
Entries 86
Mean 1074
Std Dev 0

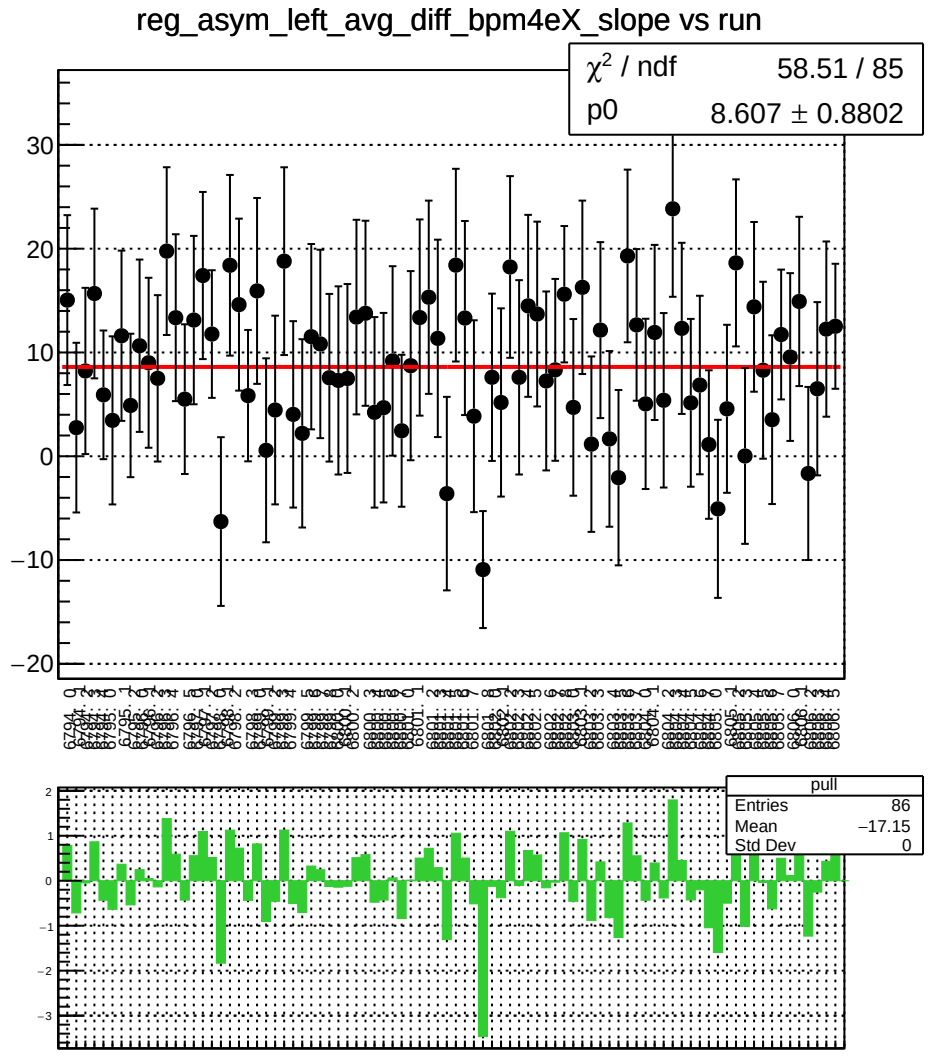

pull1D
Entries 86
Mean −0.003297
Std Dev 0.983

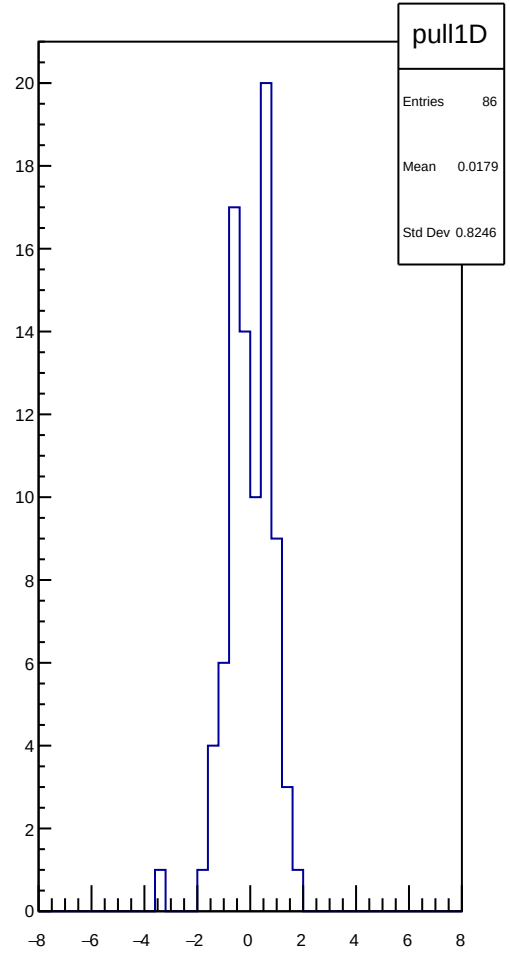

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 78.18 / 85
p0 0.005435 ± 0.01066
pull
Entries 86
Mean −60.07
Std Dev 0
pull1D
Entries 86
Mean 0.01092
Std Dev 0.9534

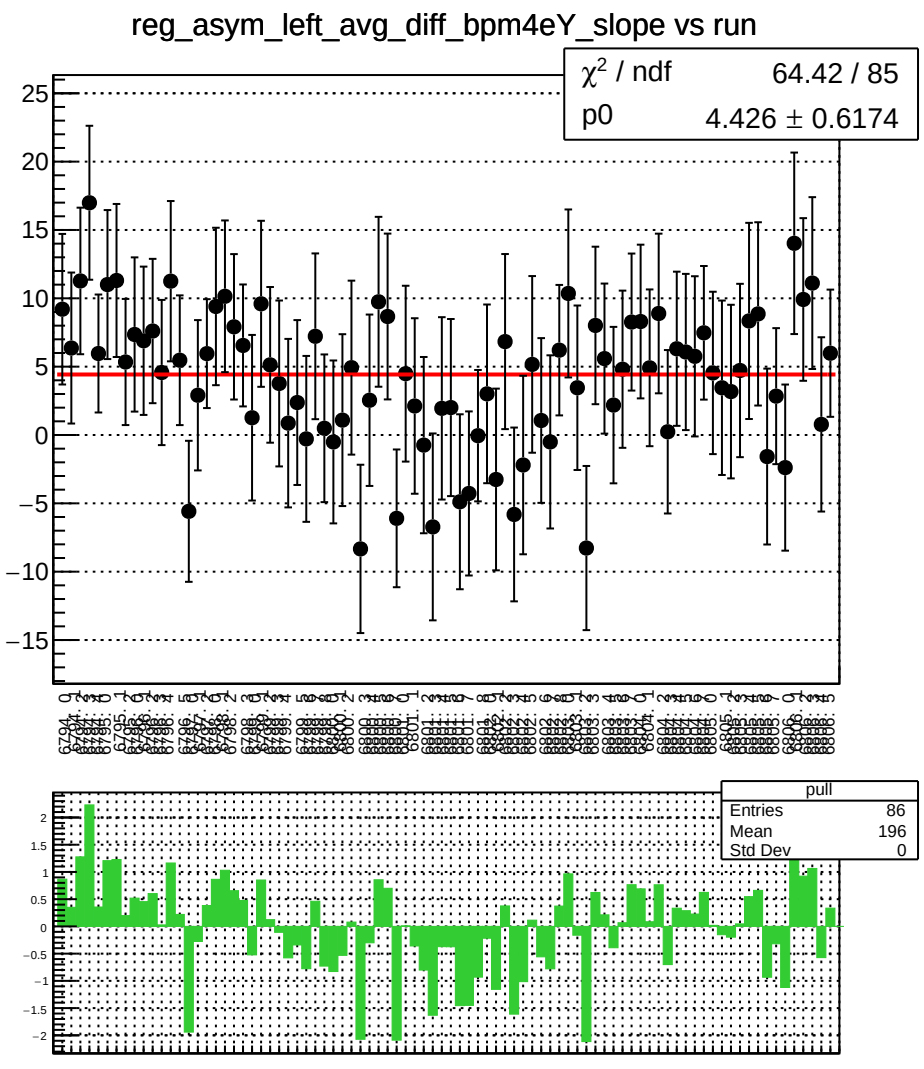

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 58.32 / 85
p0 −42.09 ± 0.9405
pull
Entries 86
Mean −27.44
Std Dev 0
pull1D
Entries 86
Mean −0.01775
Std Dev 0.8233

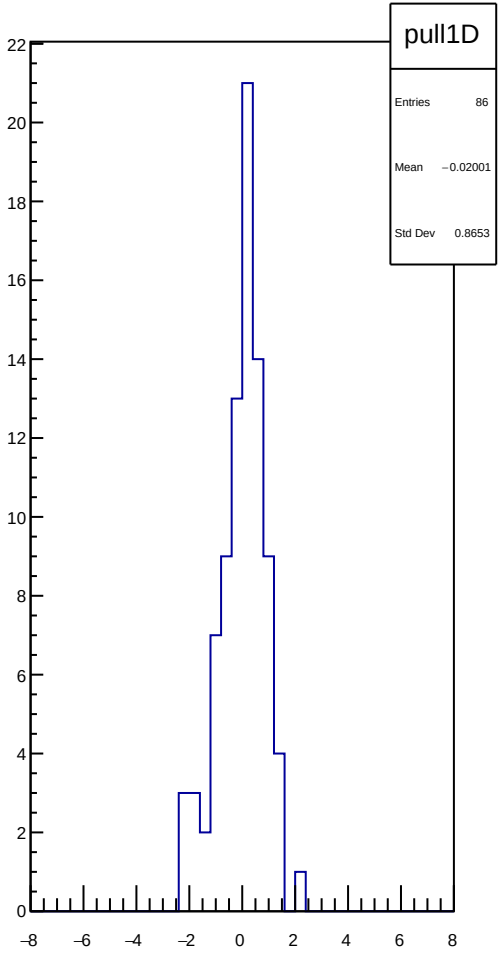

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.06 / 85
p0 3.904 ± 0.444
pull
Entries 86
Mean 393.5
Std Dev 0

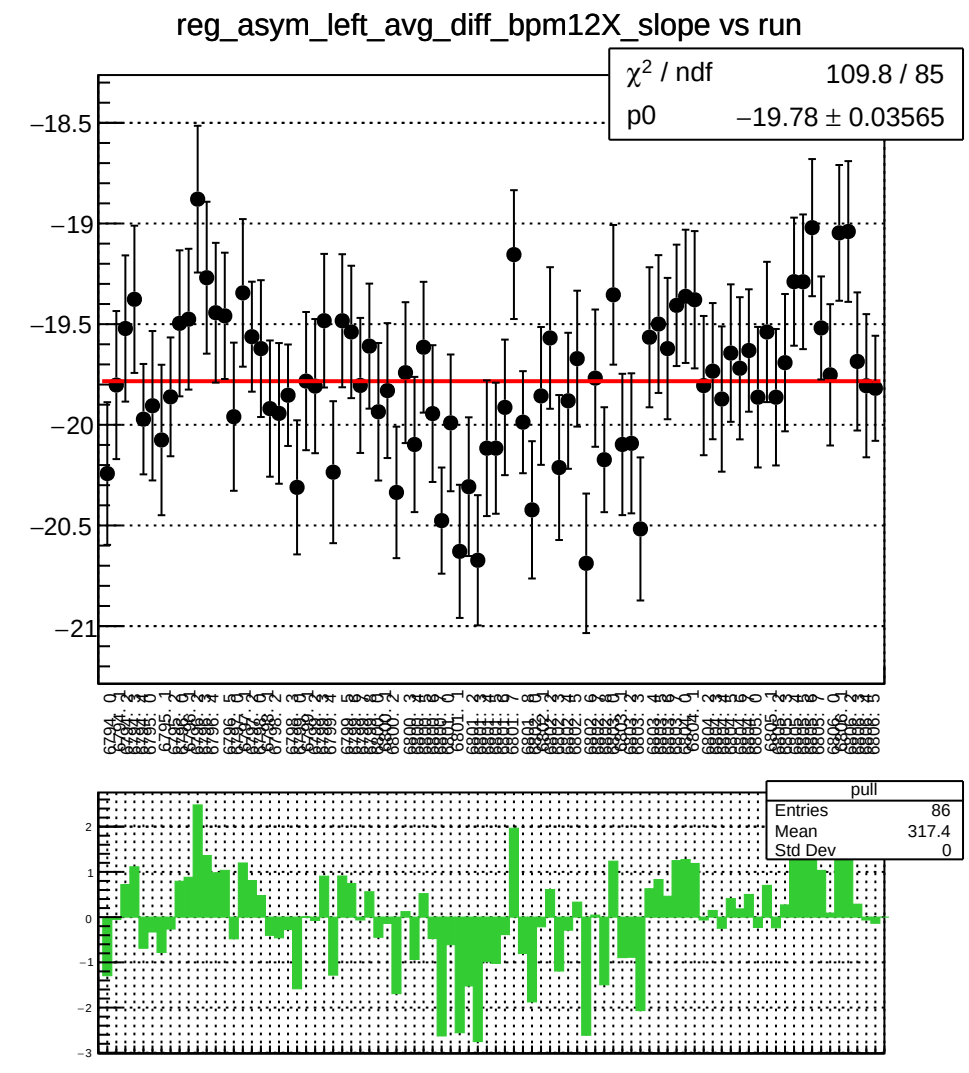

pull1D
Entries 86
Mean 0.009467
Std Dev 0.8562

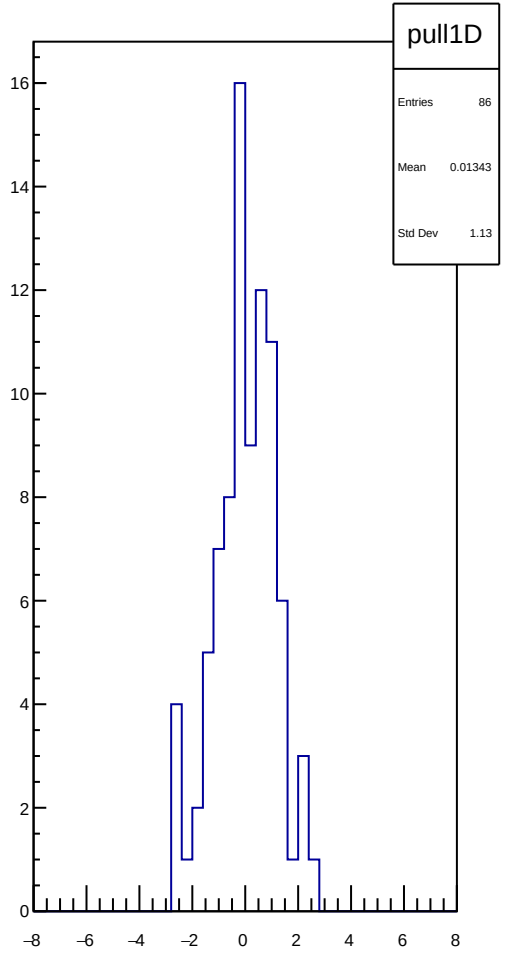

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.51 / 85
p0 8.607 ± 0.8802
pull
Entries 86
Mean −17.15
Std Dev 0

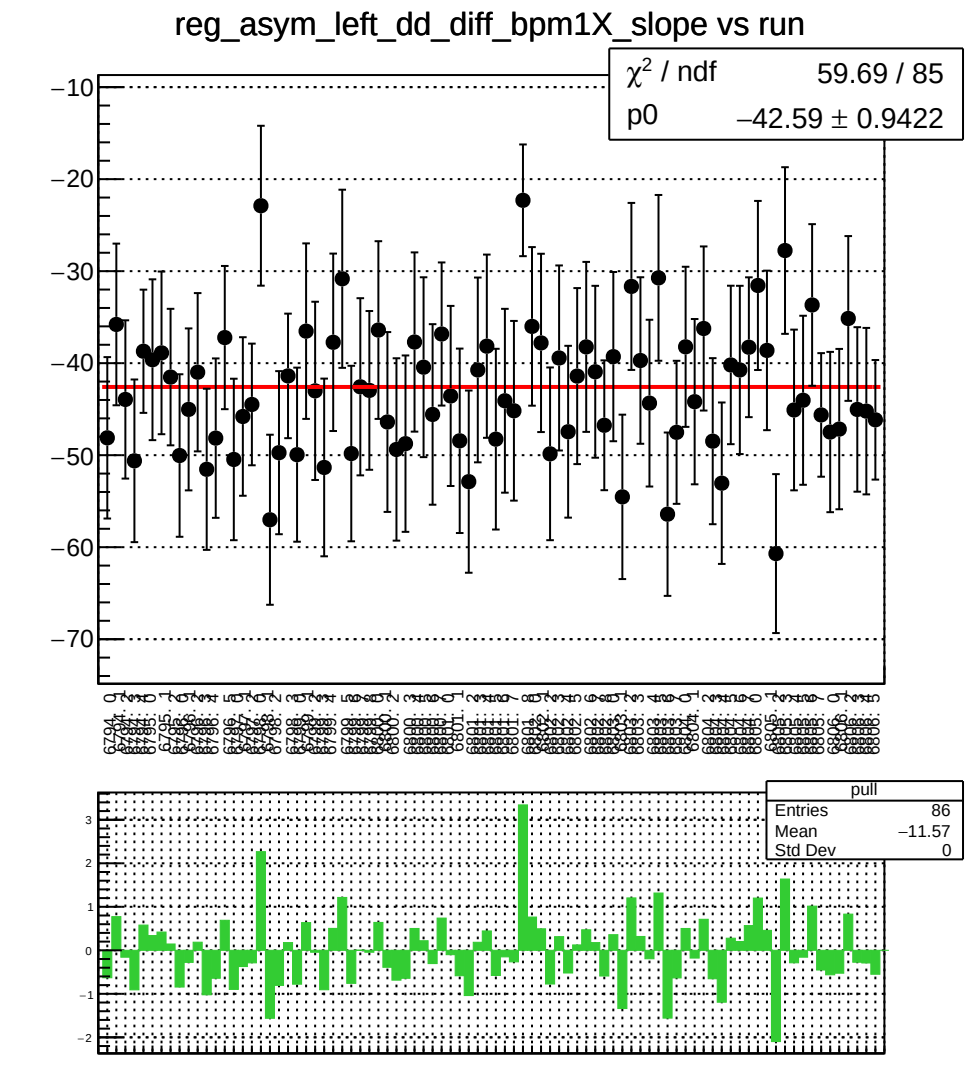

pull1D
Entries 86
Mean 0.0179
Std Dev 0.8246

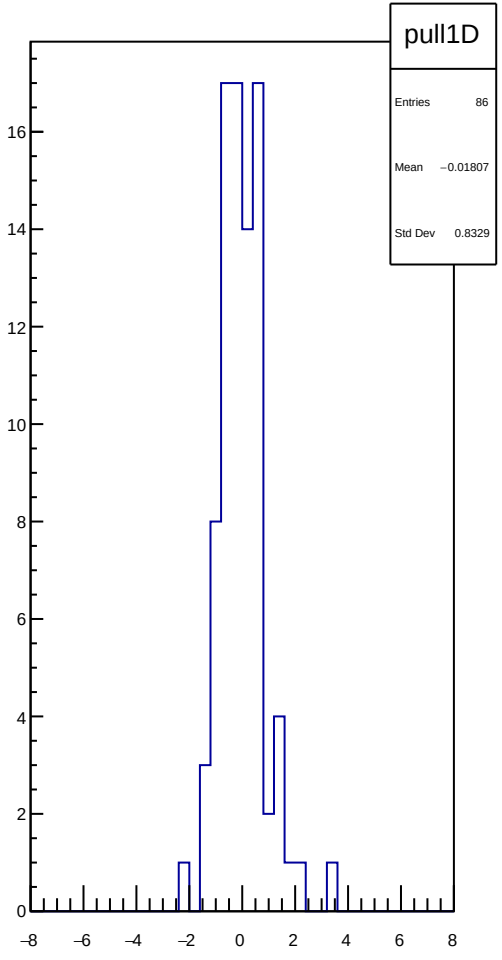

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 64.42 / 85
p0 4.426 ± 0.6174
pull
Entries 86
Mean 196
Std Dev 0

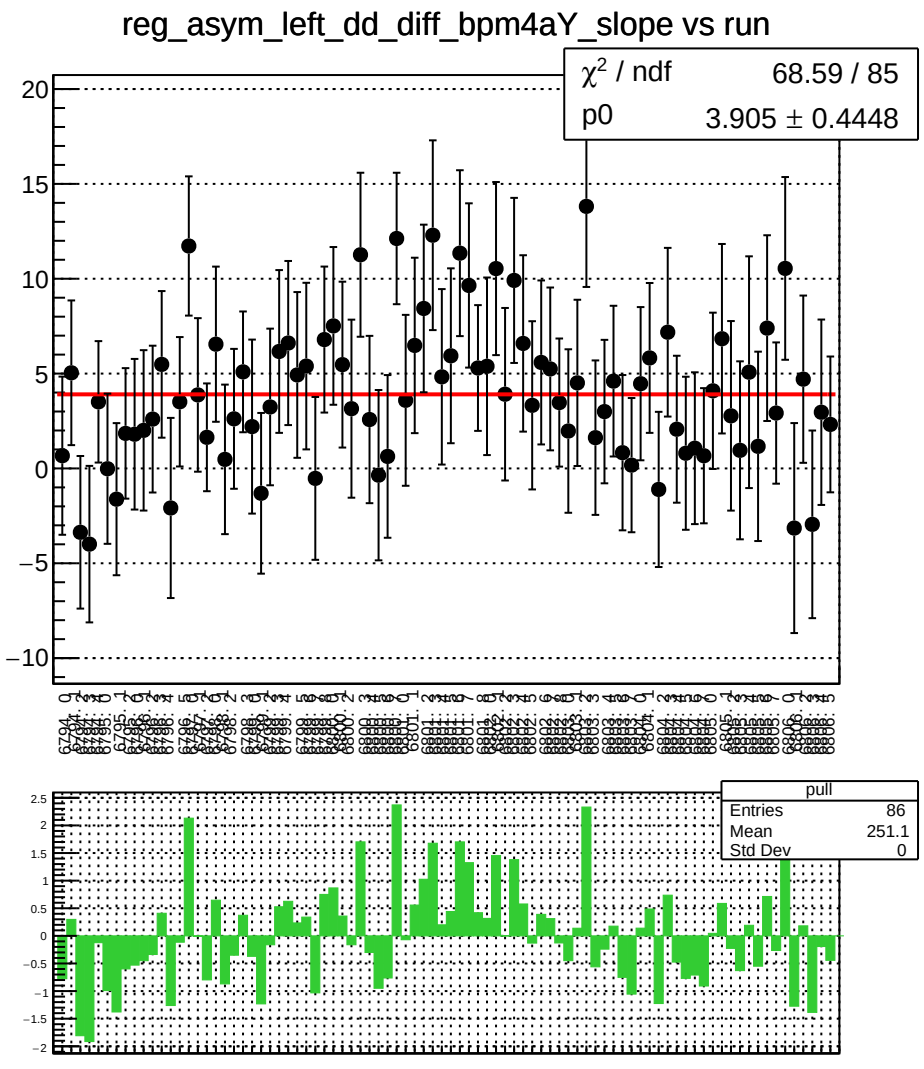

pull1D
Entries 86
Mean −0.02001
Std Dev 0.8653

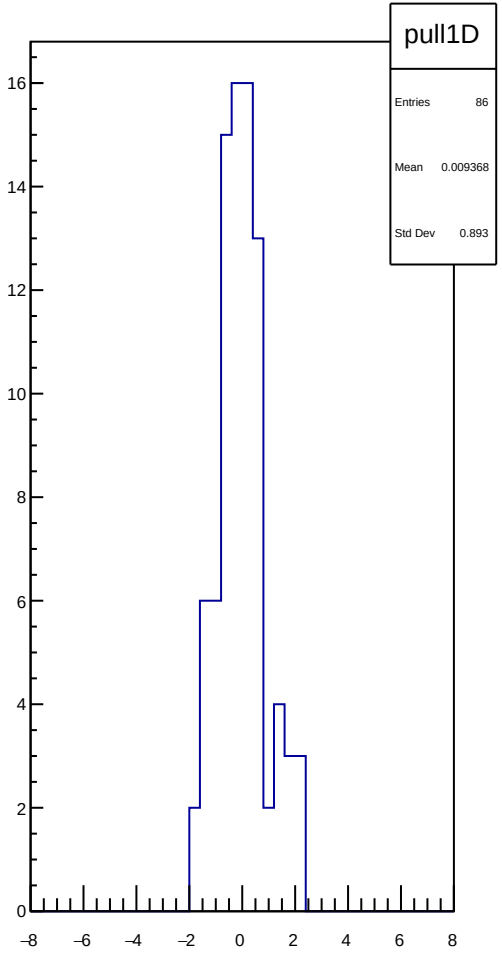

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 109.8 / 85
p0 −19.78 ± 0.03565
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 86
Mean 317.4
Std Dev 0
2
1
0
−1
−2
−3

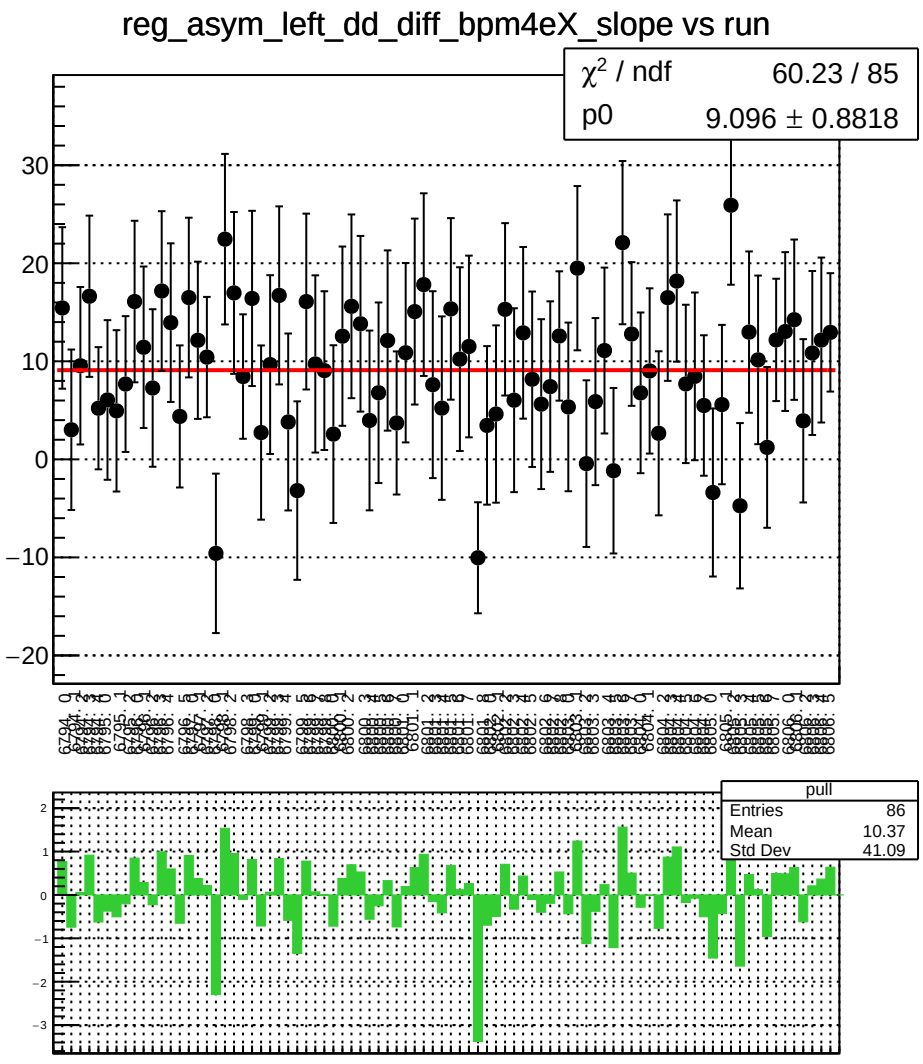

pull1D
Entries 86
Mean 0.01343
Std Dev 1.13
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

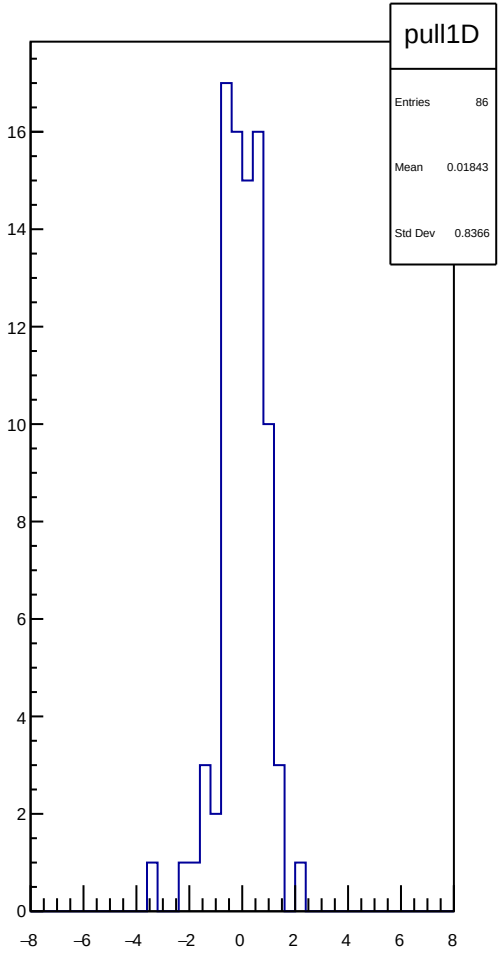

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 59.69 / 85
p0 −42.59 ± 0.9422
pull
Entries 86
Mean −11.57
Std Dev 0

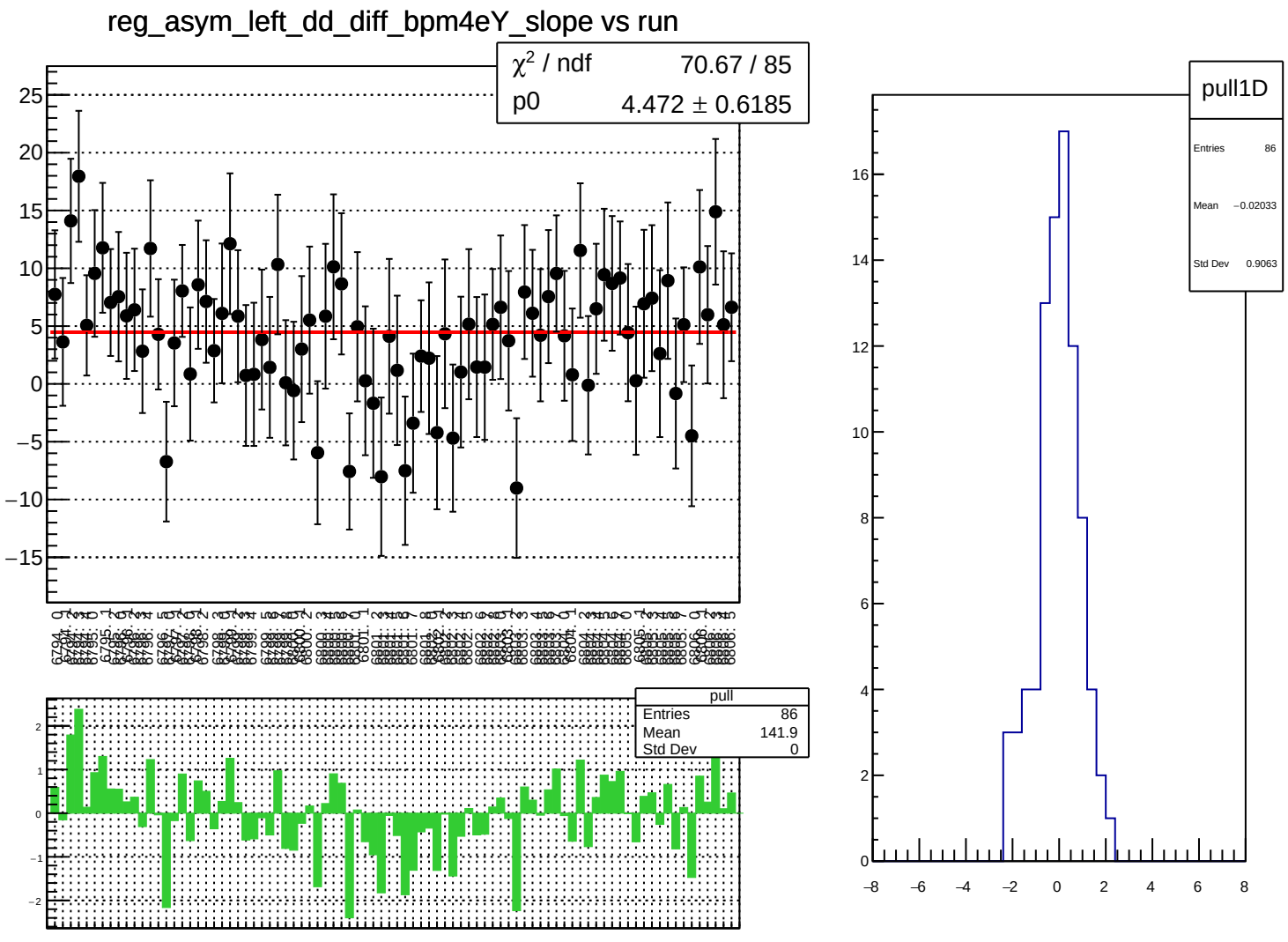

pull1D
Entries 86
Mean −0.01807
Std Dev 0.8329

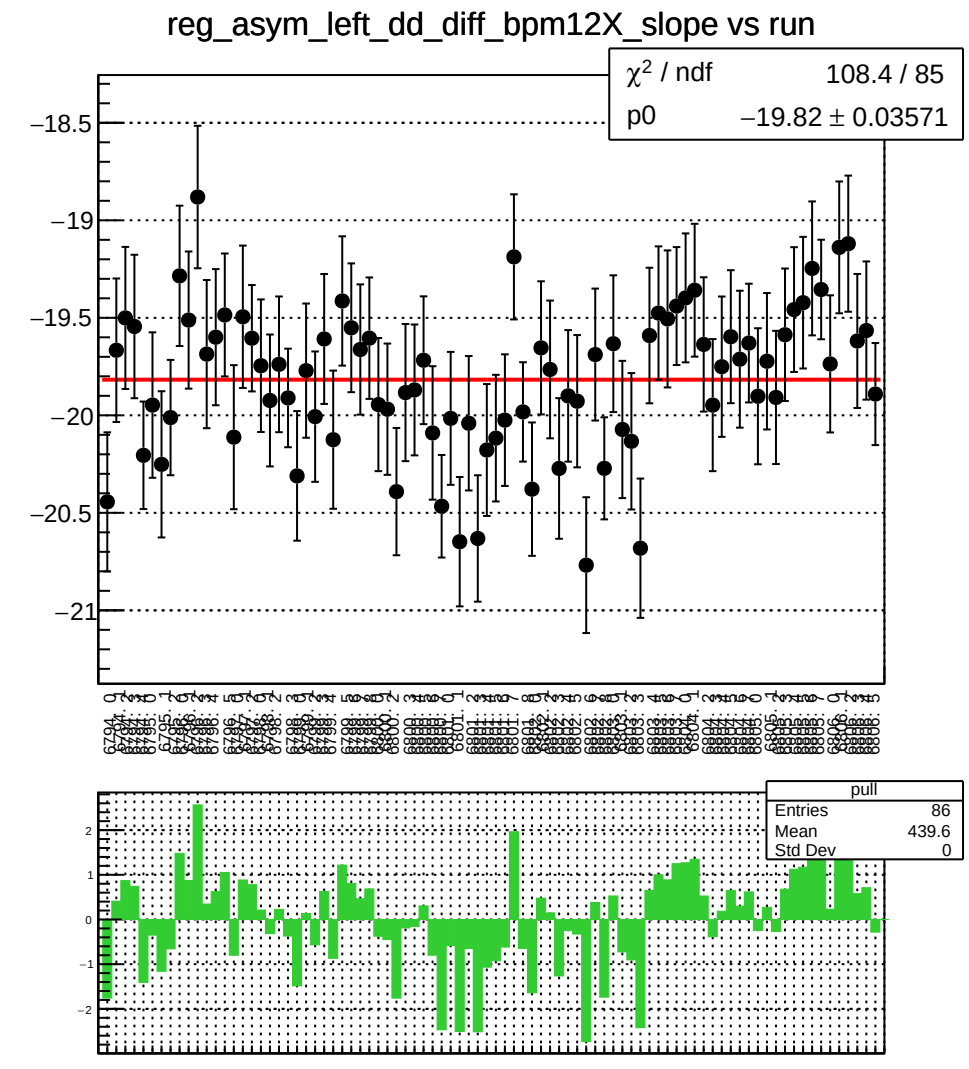

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 68.59 / 85
p0 3.905 ± 0.4448
pull
Entries 86
Mean 251.1
Std Dev 0

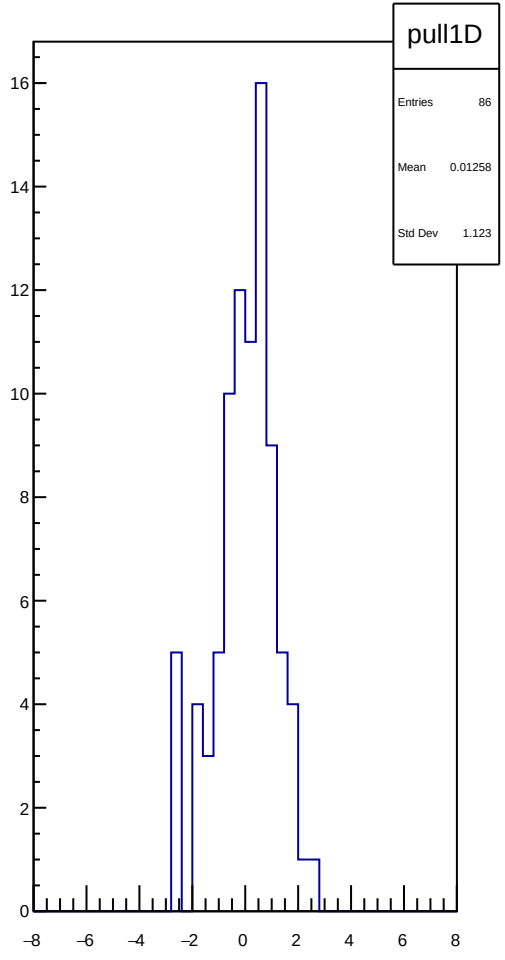

pull1D
Entries 86
Mean 0.009368
Std Dev 0.893

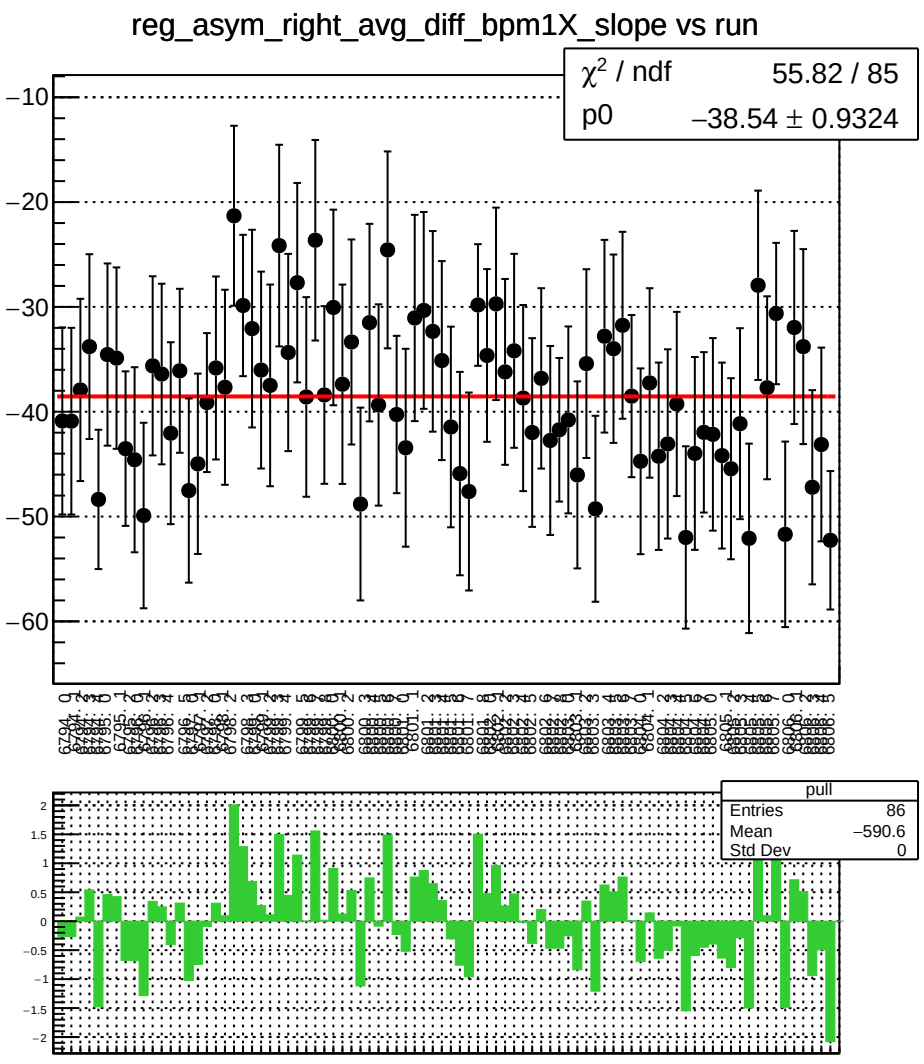

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.23 / 85
p0 9.096 ± 0.8818
pull
Entries 86
Mean 10.37
Std Dev 41.09

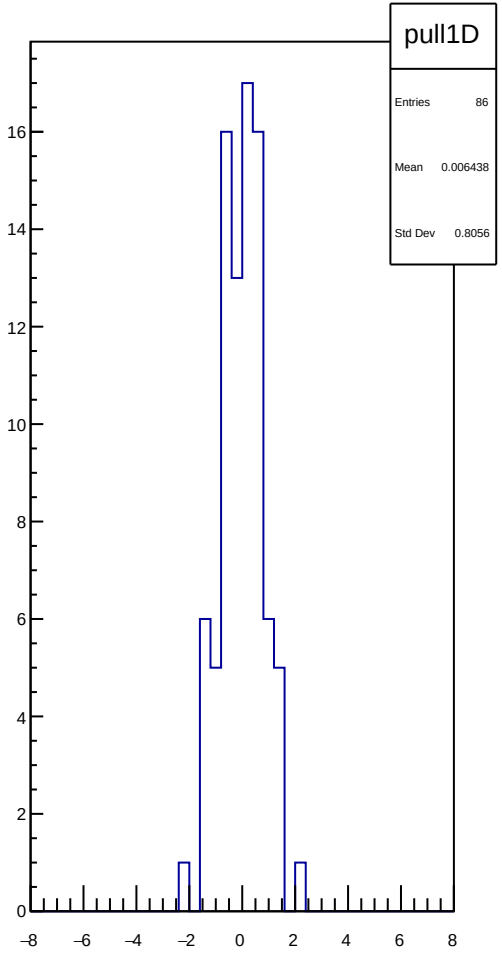

pull1D
Entries 86
Mean 0.01843
Std Dev 0.8366

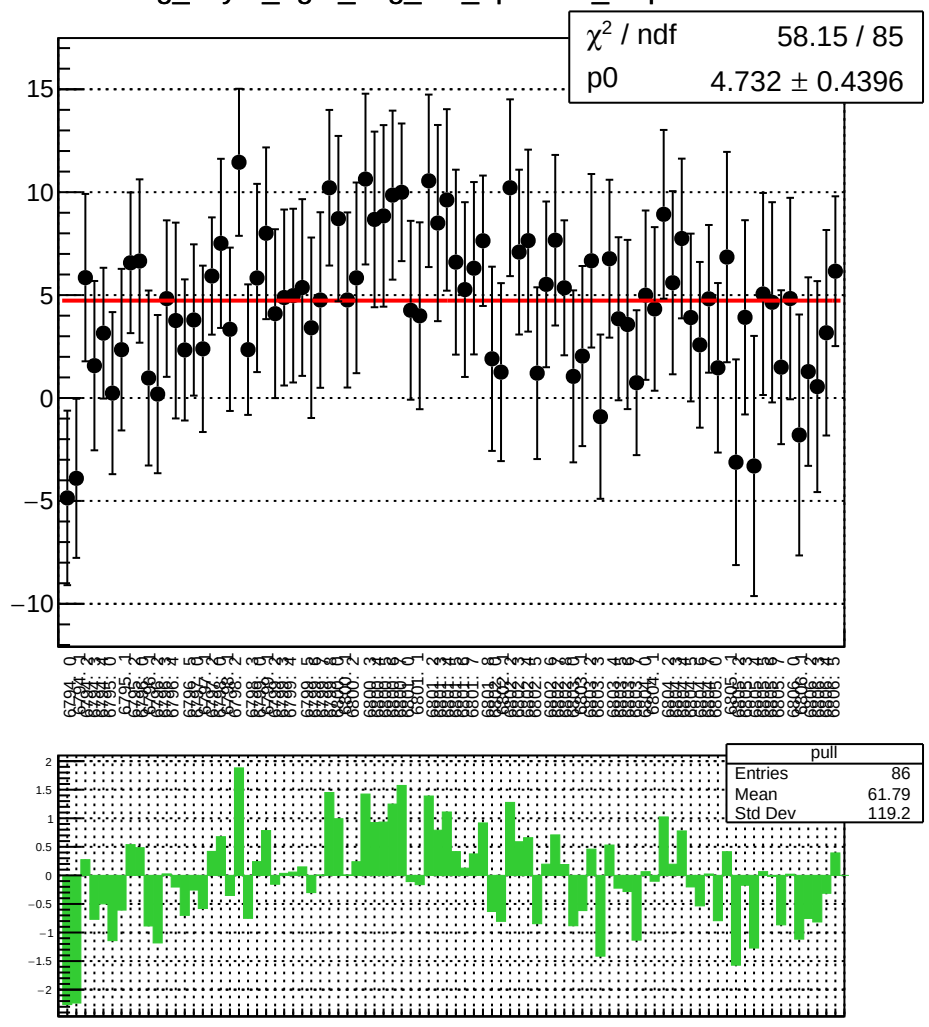

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.67 / 85
p0 4.472 ± 0.6185
pull
Entries 86
Mean 141.9
Std Dev 0
pull1D
Entries 86
Mean −0.02033
Std Dev 0.9063

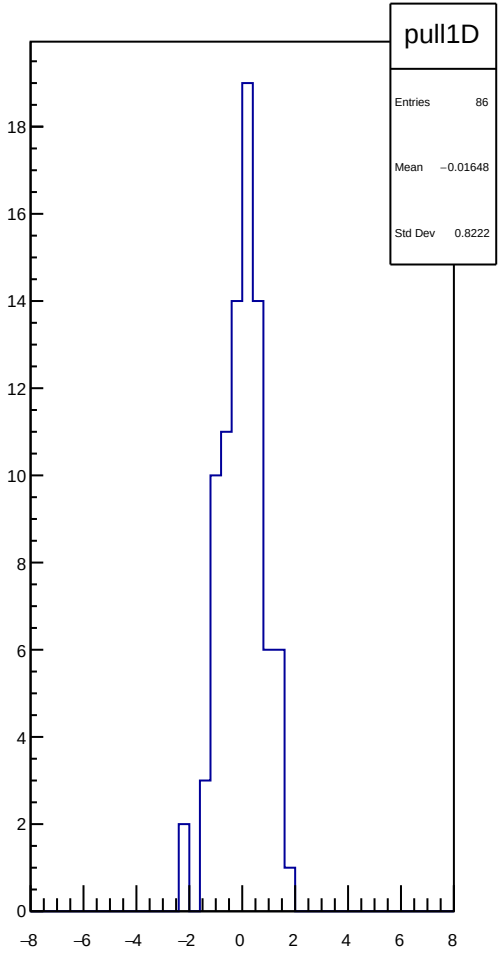

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 108.4 / 85
p0 −19.82 ± 0.03571
−18.5
−19
−19.5
−20
−20.5
−21
pull
Entries 86
Mean 439.6
Std Dev 0
2
1
0
−1
−2

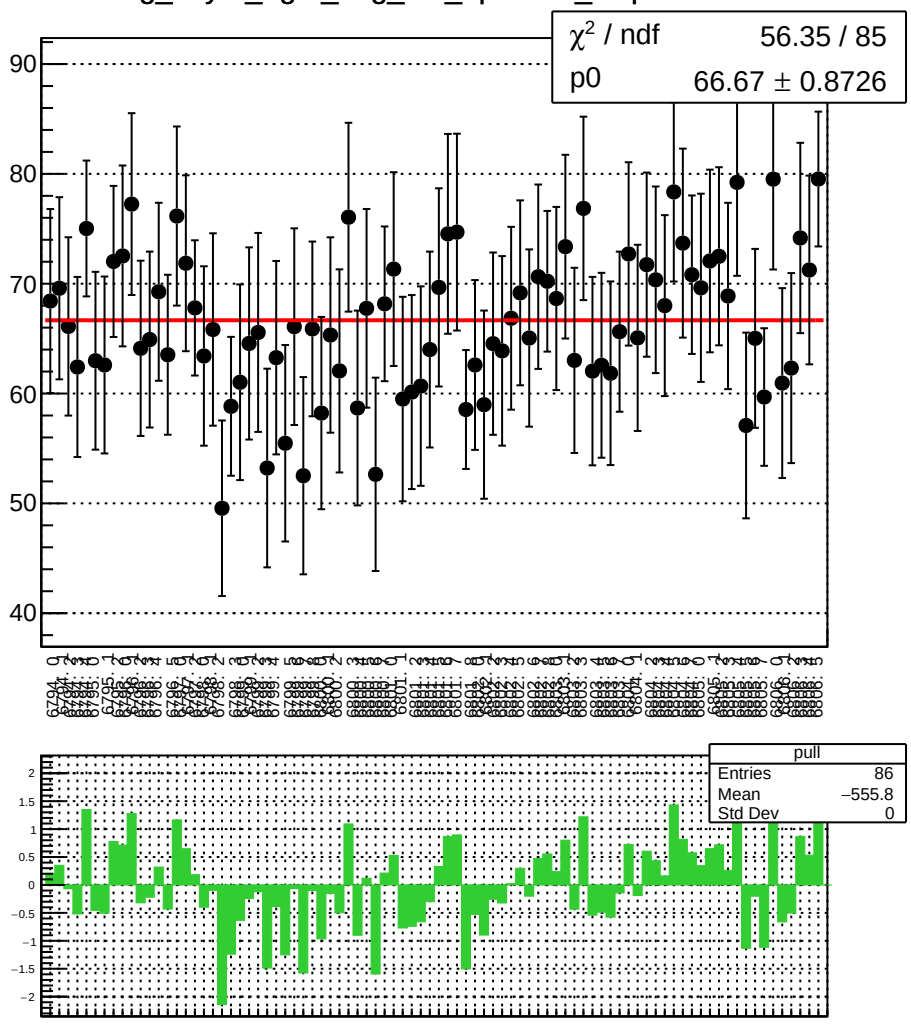

pull1D
Entries 86
Mean 0.01258
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

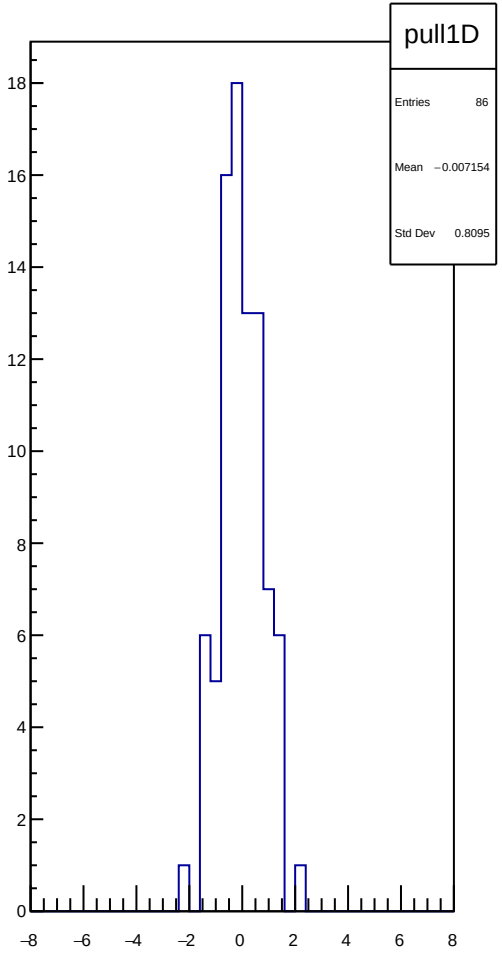

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 55.82 / 85
p0 −38.54 ± 0.9324
pull
Entries 86
Mean −590.6
Std Dev 0

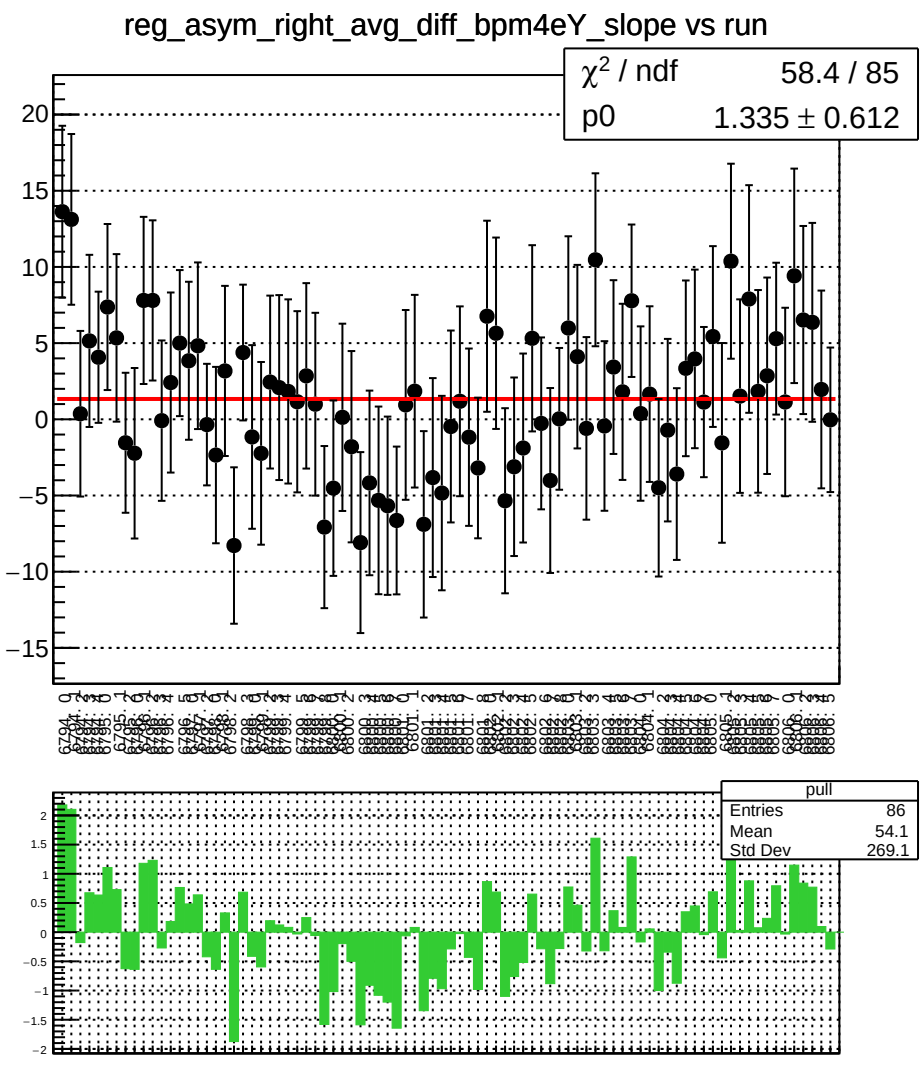

pull1D
Entries 86
Mean 0.006438
Std Dev 0.8056

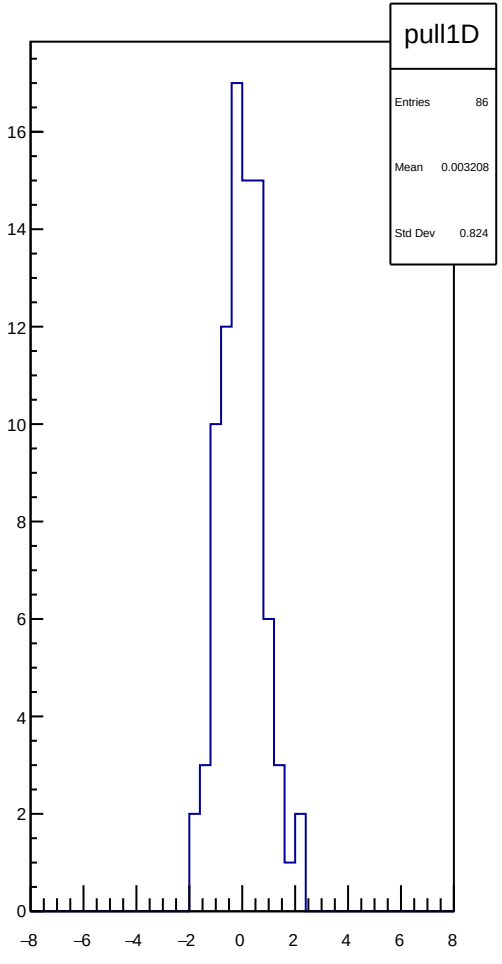

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 58.15 / 85
p0 4.732 ± 0.4396
pull
Entries 86
Mean 61.79
Std Dev 119.2

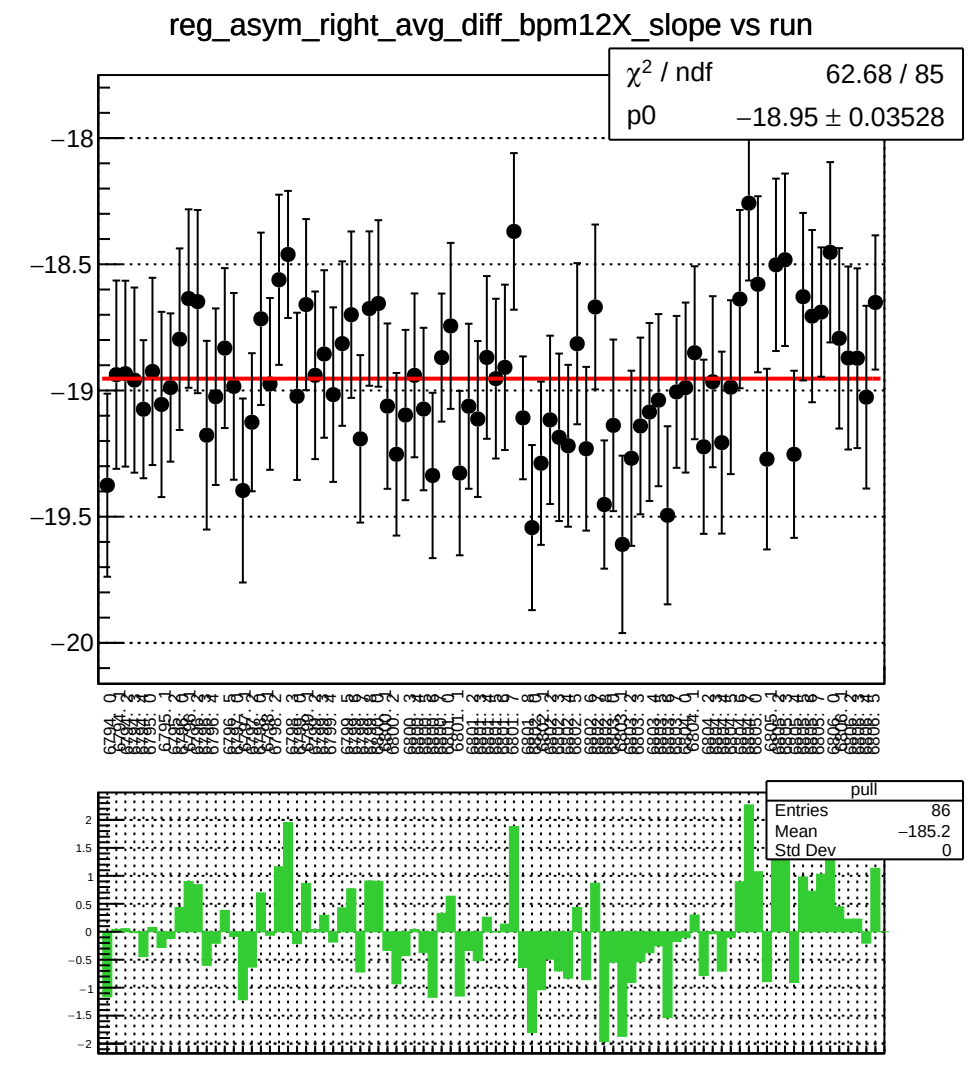

pull1D
Entries 86
Mean −0.01648
Std Dev 0.8222

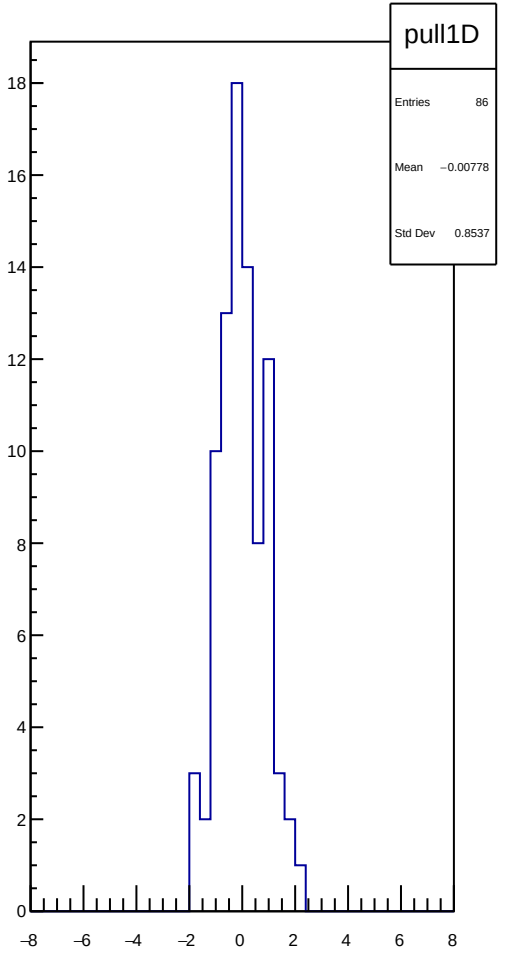

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.35 / 85
p0 66.67 ± 0.8726
pull
Entries 86
Mean −555.8
Std Dev 0

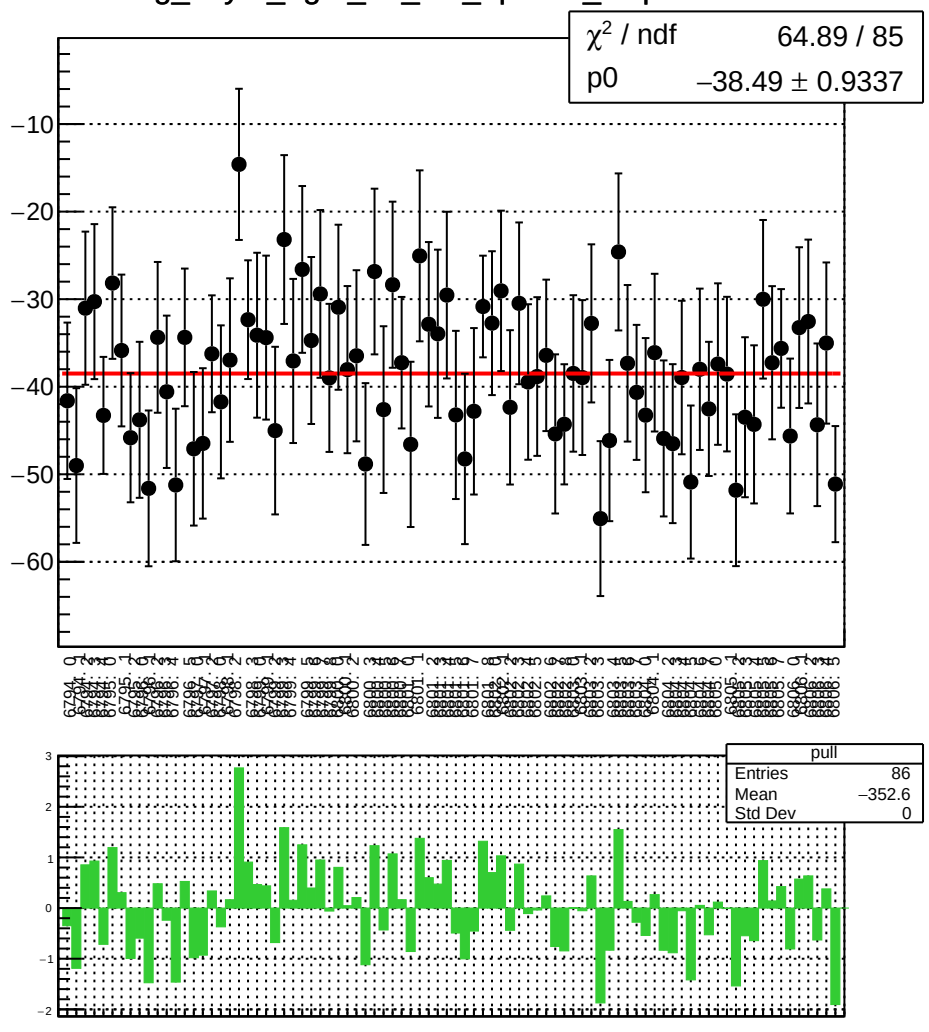

pull1D
Entries 86
Mean −0.007154
Std Dev 0.8095

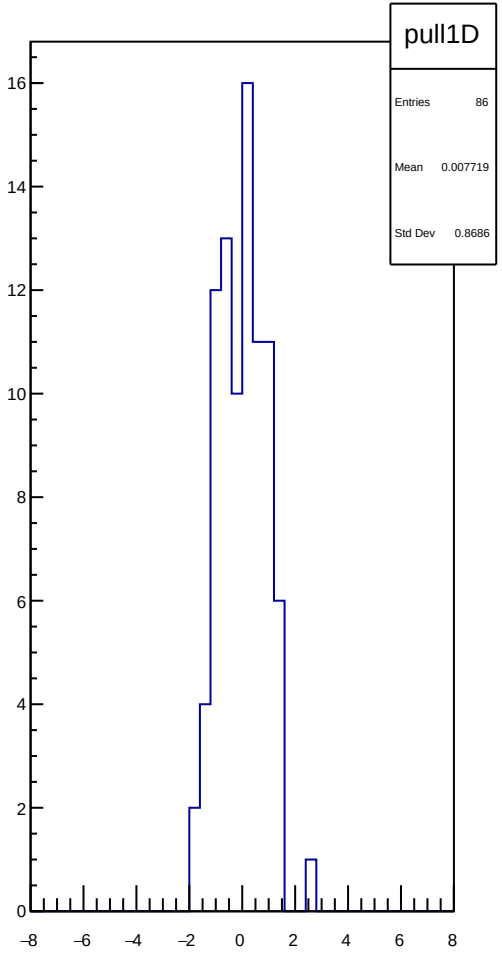

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.4 / 85
p0 1.335 ± 0.612
pull
Entries 86
Mean 54.1
Std Dev 269.1

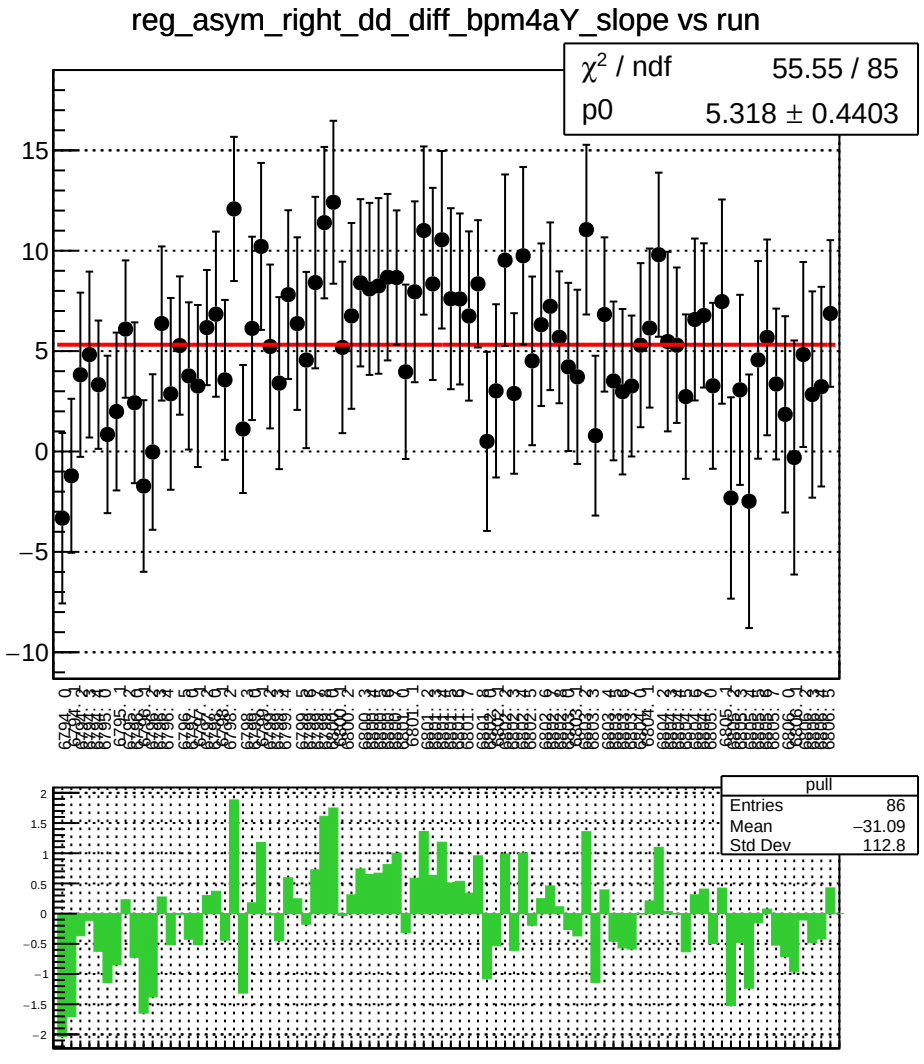

pull1D
Entries 86
Mean 0.003208
Std Dev 0.824

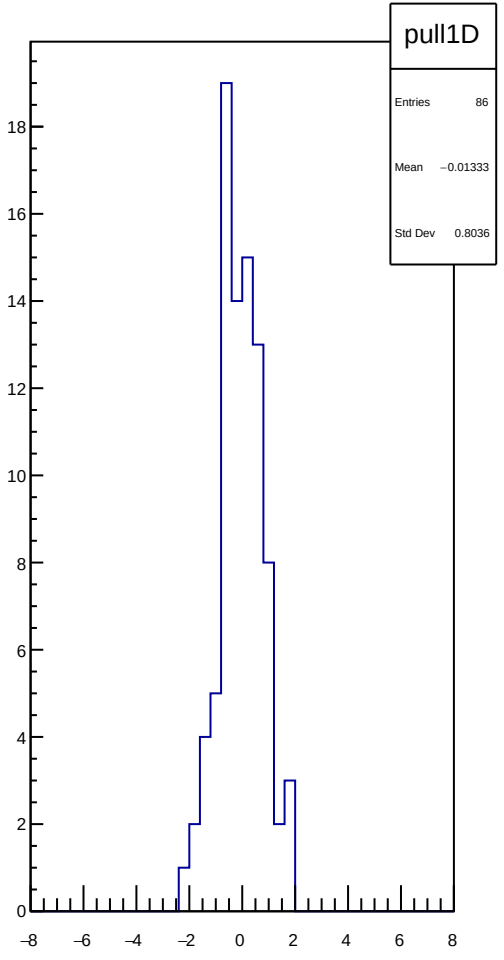

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 62.68 / 85
p0 −18.95 ± 0.03528
−18
−18.5
−19
−19.5
−20
pull
Entries 86
Mean −185.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

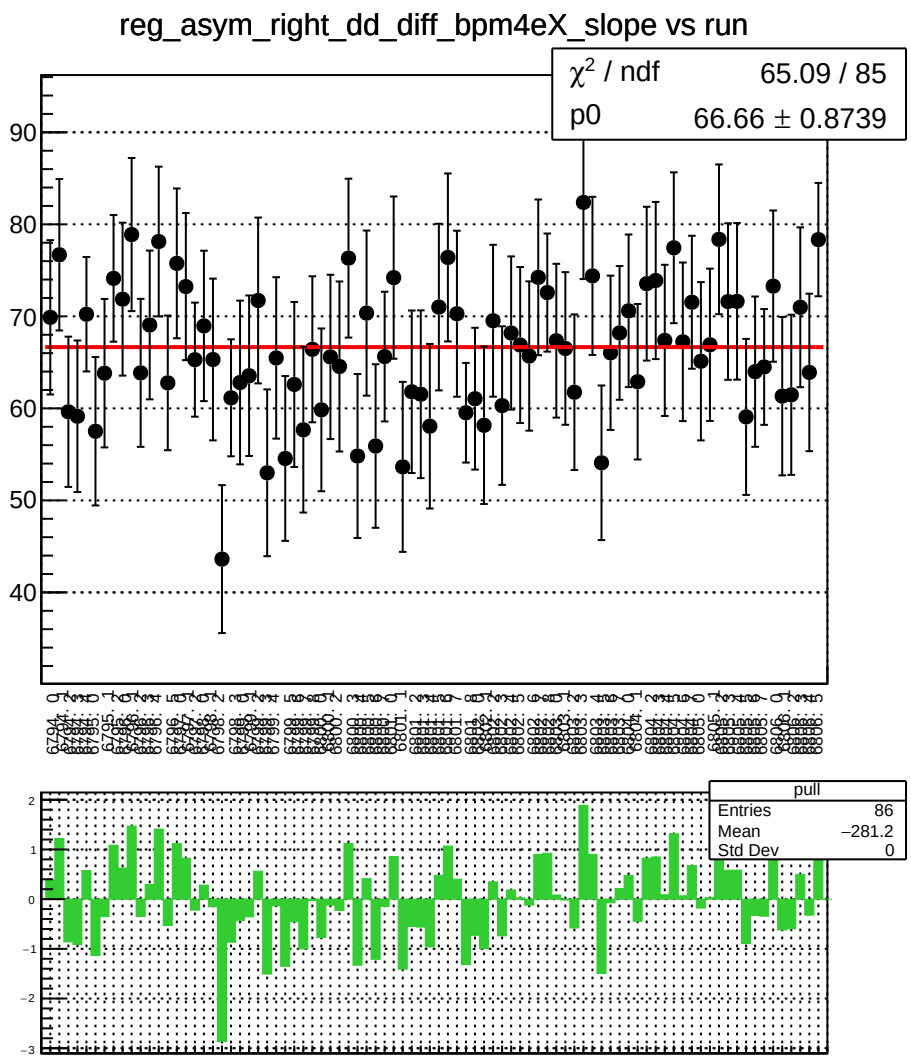

pull1D
Entries 86
Mean −0.00778
Std Dev 0.8537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

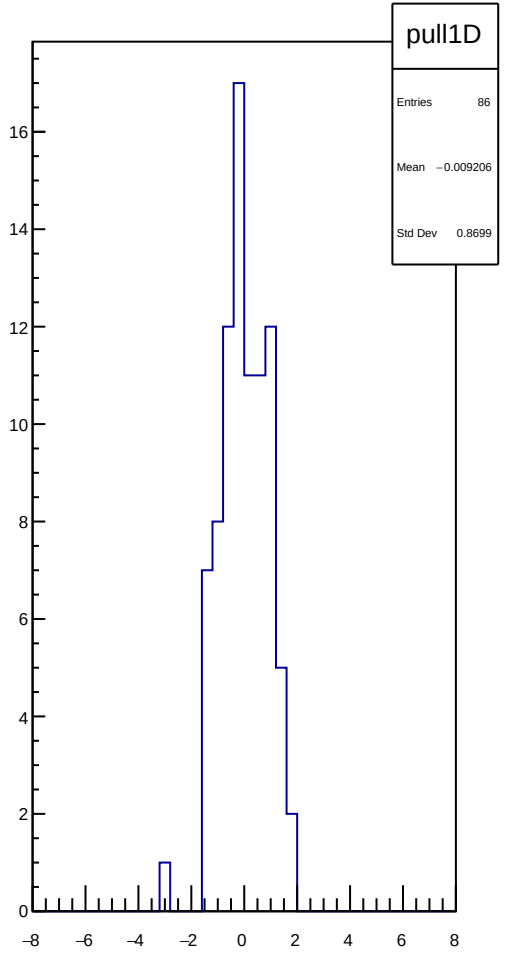

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 64.89 / 85
p0 −38.49 ± 0.9337
pull
Entries 86
Mean −352.6
Std Dev 0

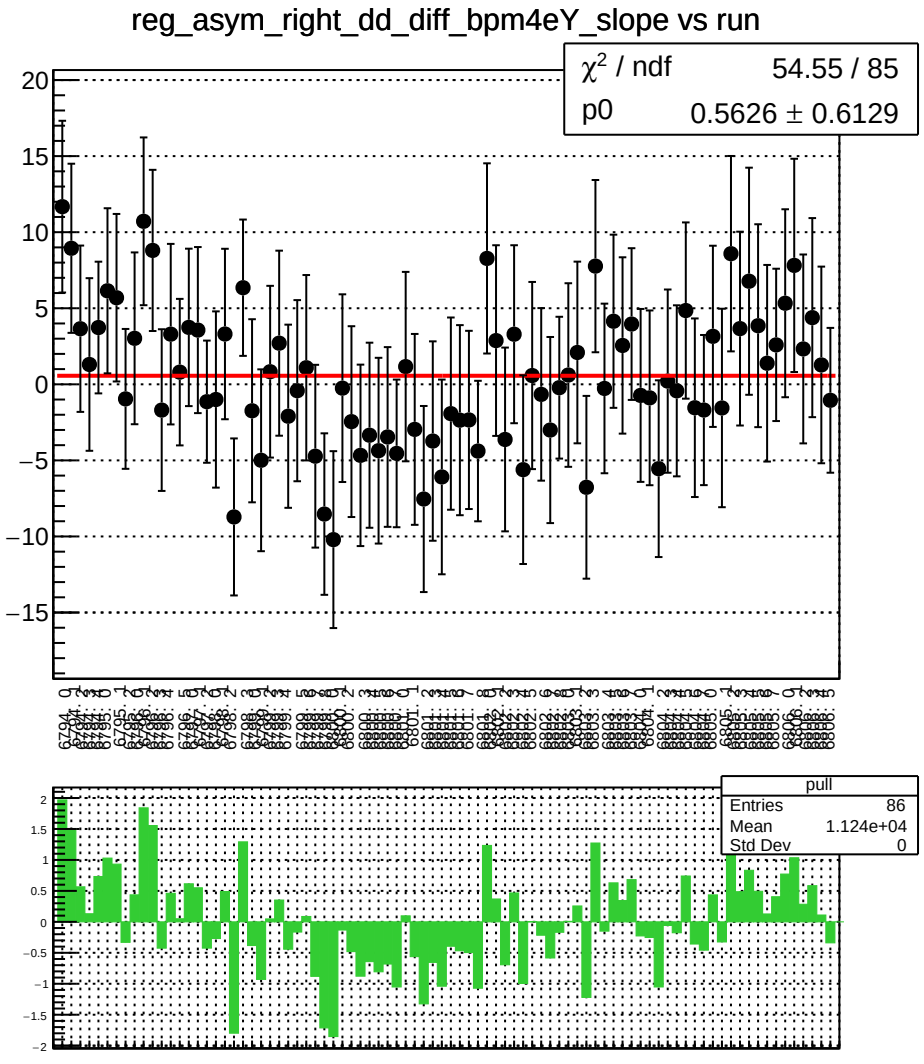

pull1D
Entries 86
Mean 0.007719
Std Dev 0.8686

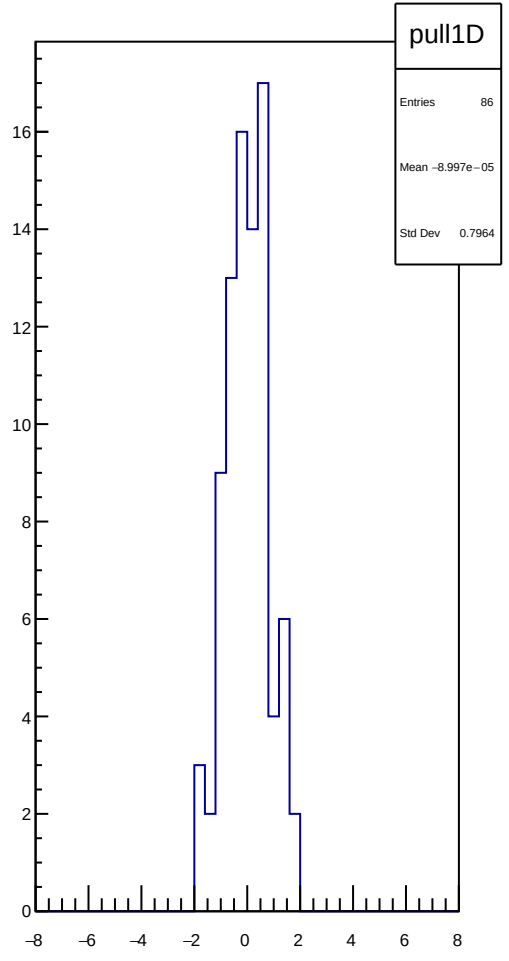

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.55 / 85
p0 5.318 ± 0.4403
pull
Entries 86
Mean −31.09
Std Dev 112.8

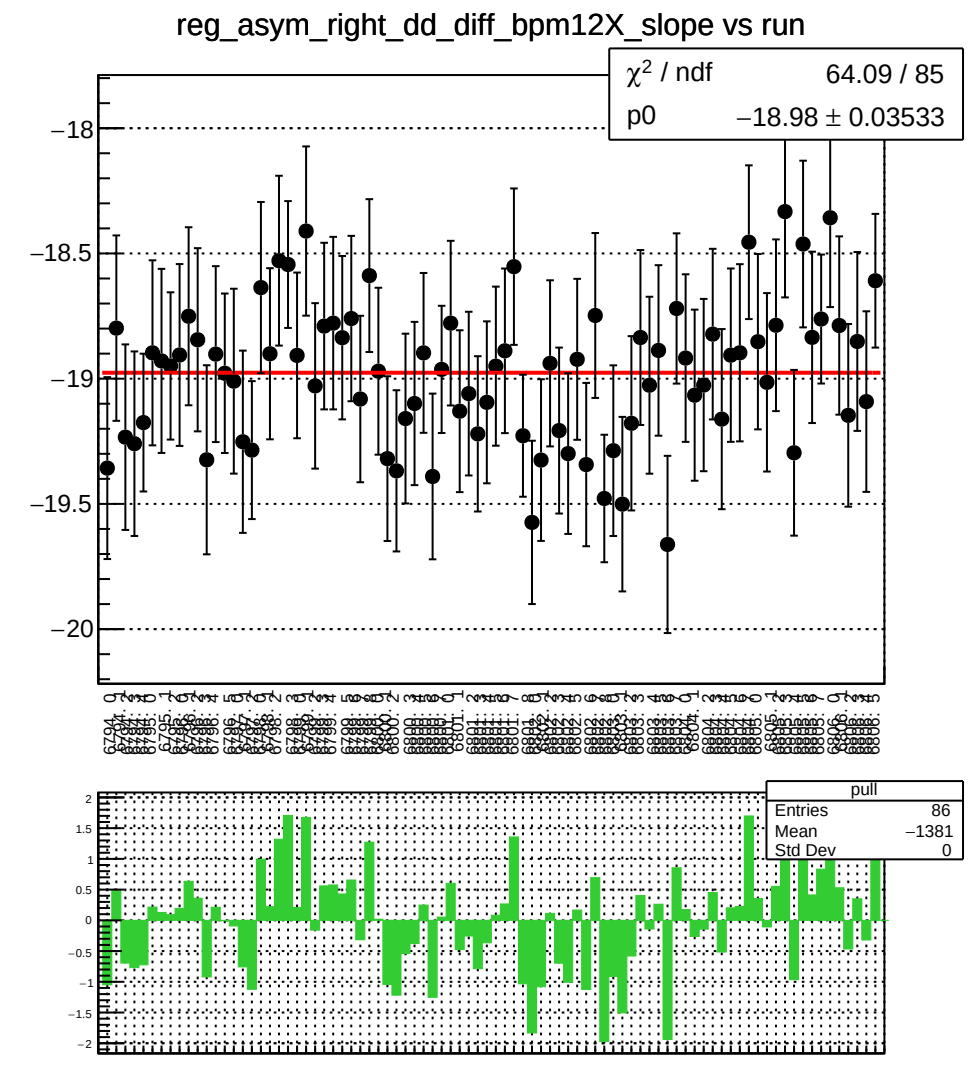

pull1D
Entries 86
Mean −0.01333
Std Dev 0.8036

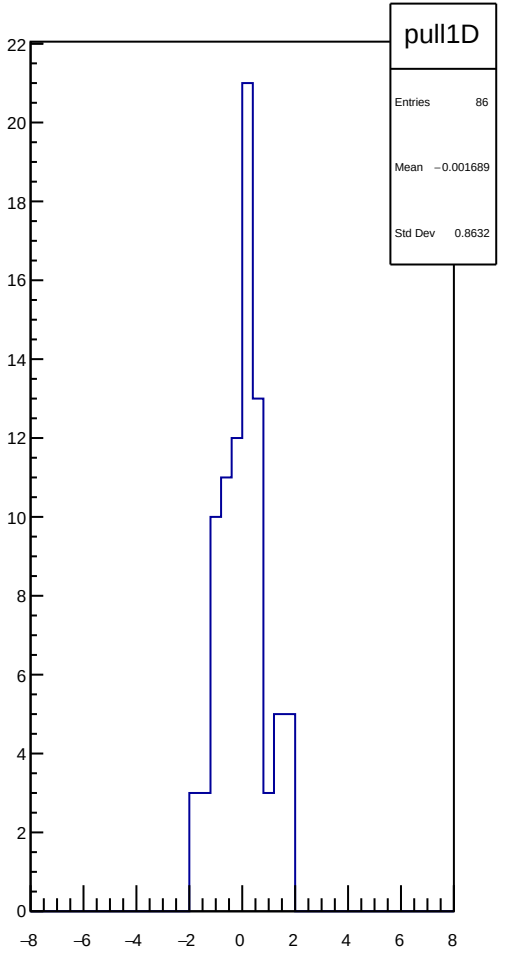

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 65.09 / 85
p0 66.66 ± 0.8739
pull
Entries 86
Mean −281.2
Std Dev 0

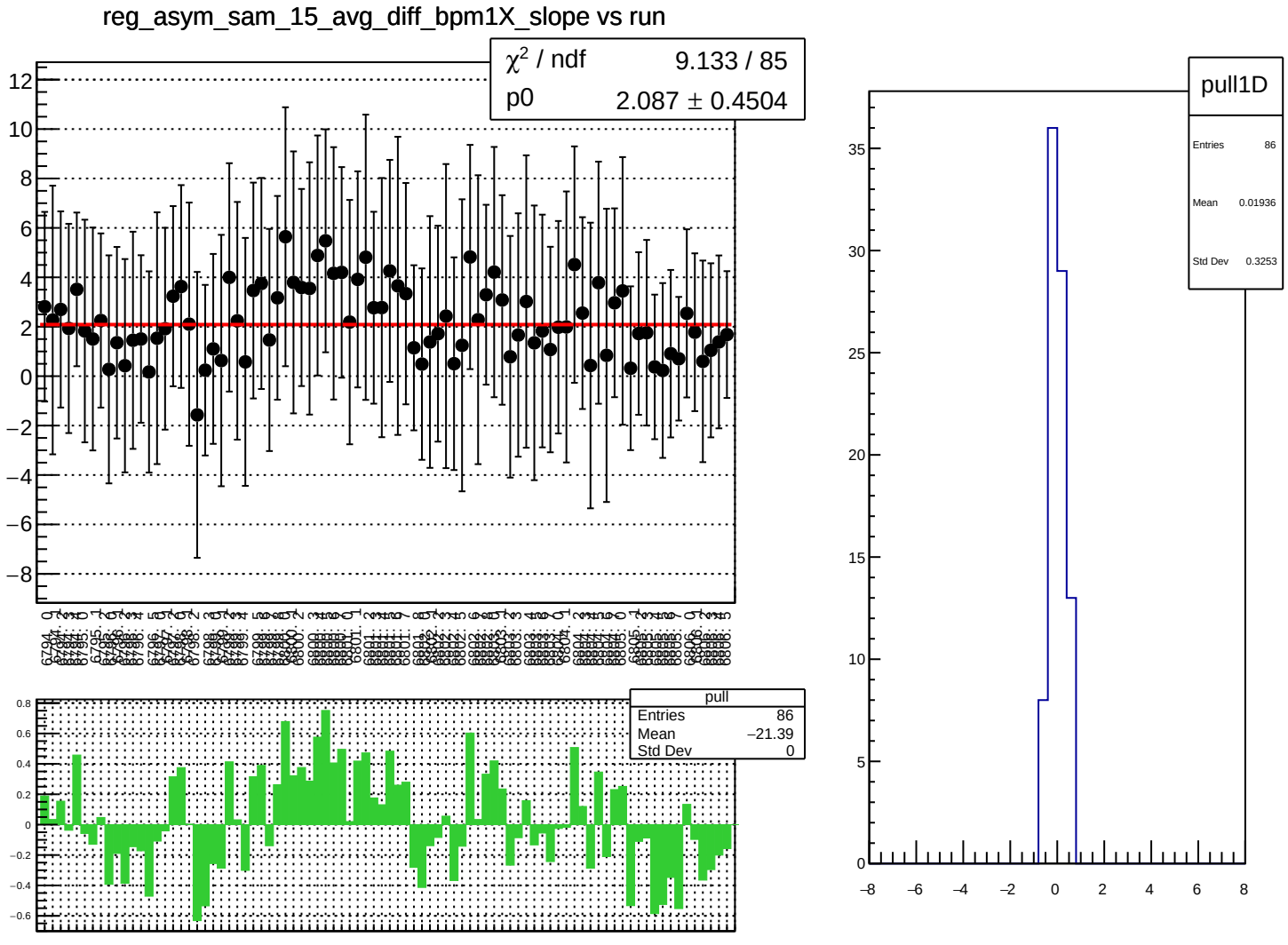

pull1D
Entries 86
Mean −0.009206
Std Dev 0.8699

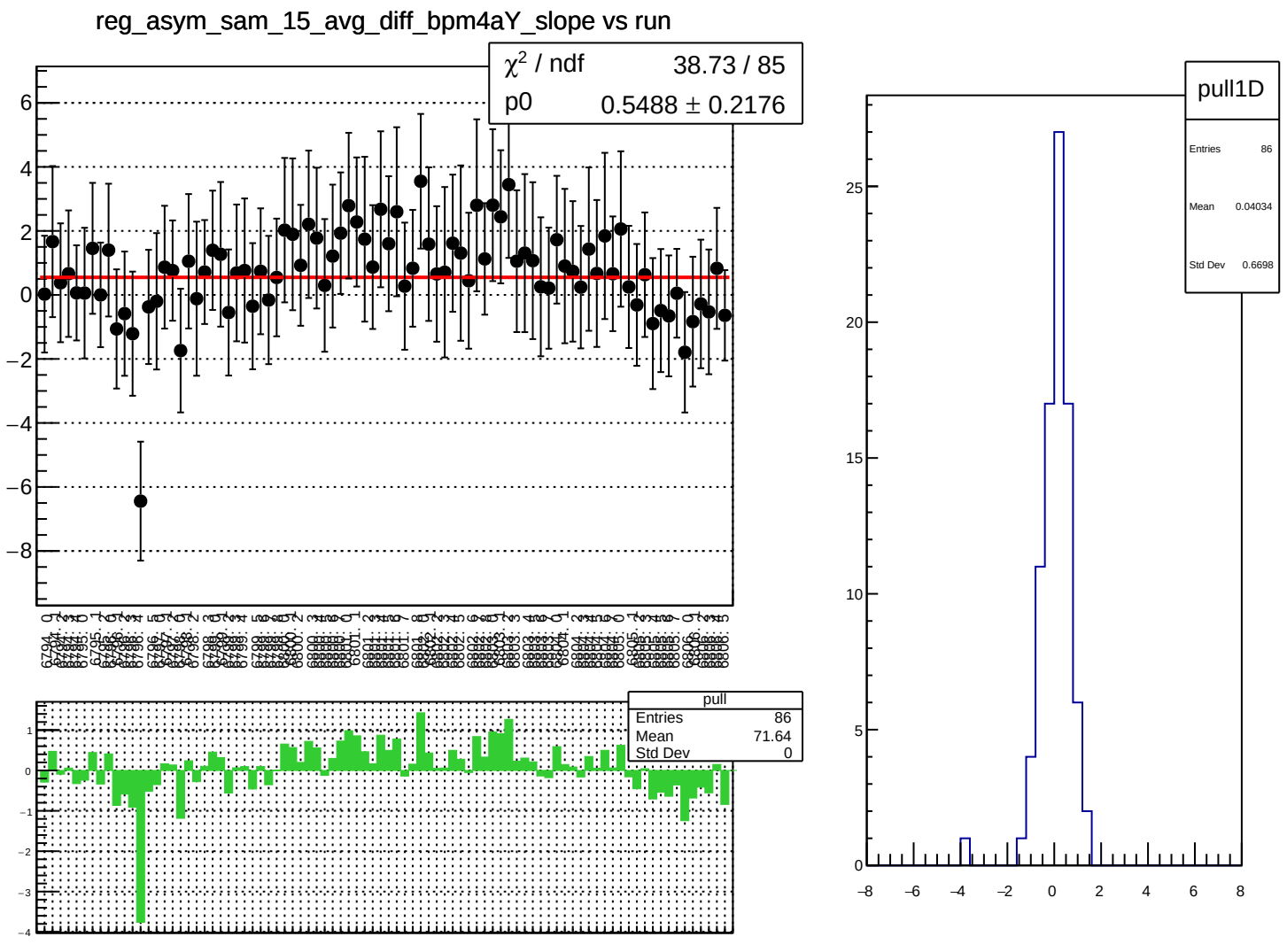

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.55 / 85
p0 0.5626 ± 0.6129
pull
Entries 86
Mean 1.124e+04
Std Dev 0

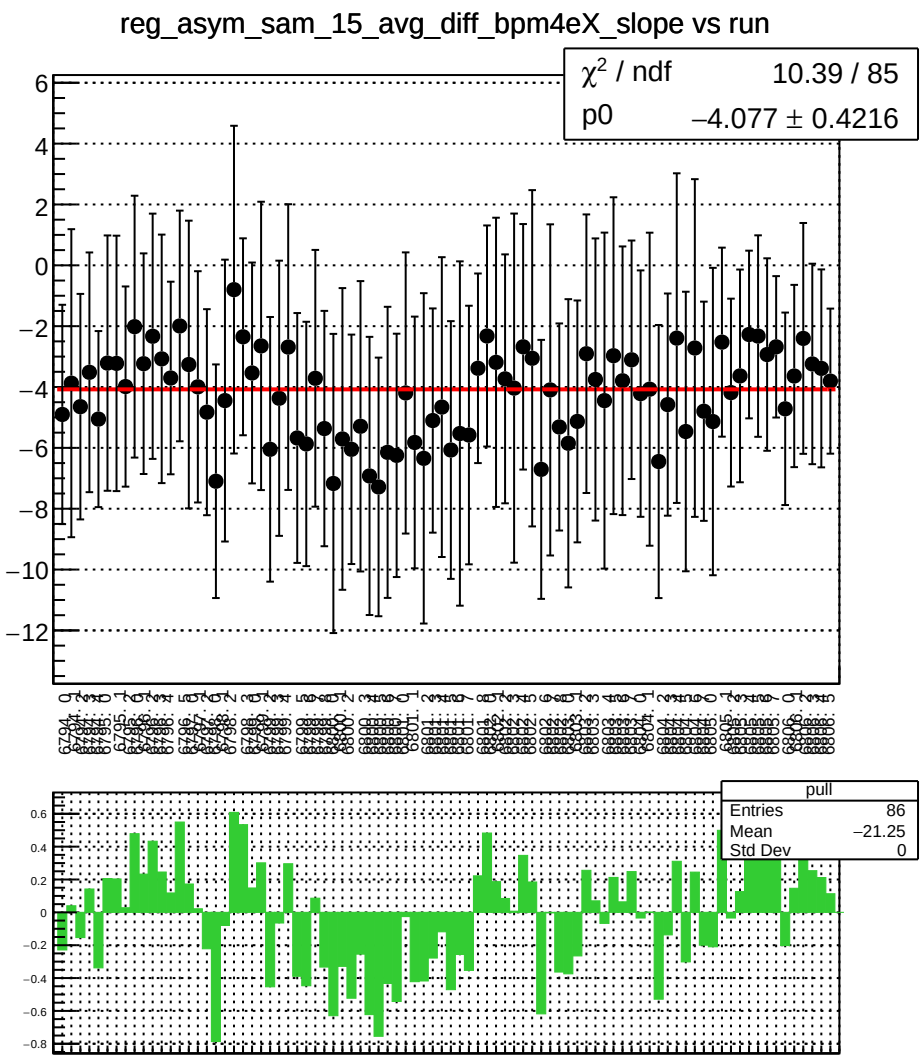

pull1D
Entries 86
Mean −8.997e−05
Std Dev 0.7964

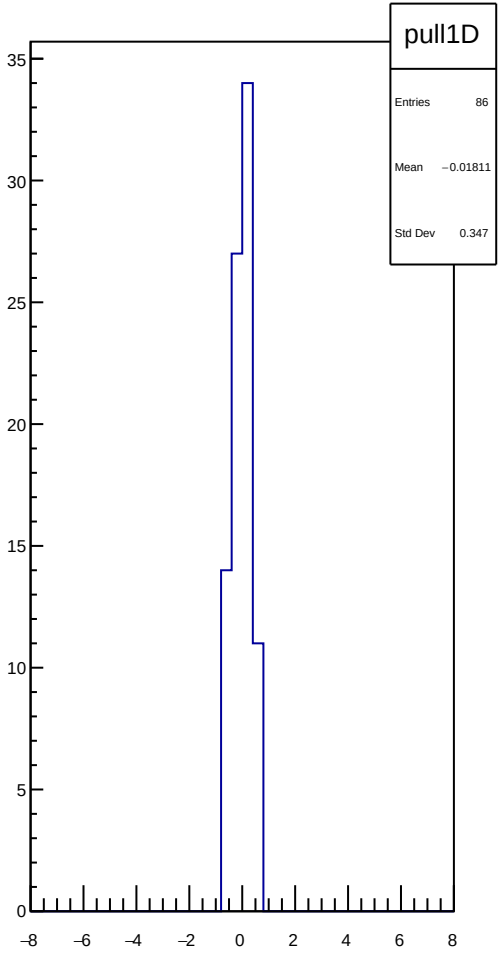

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 64.09 / 85
p0 −18.98 ± 0.03533
−18
−18.5
−19
−19.5
−20
pull
Entries 86
Mean −1381
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

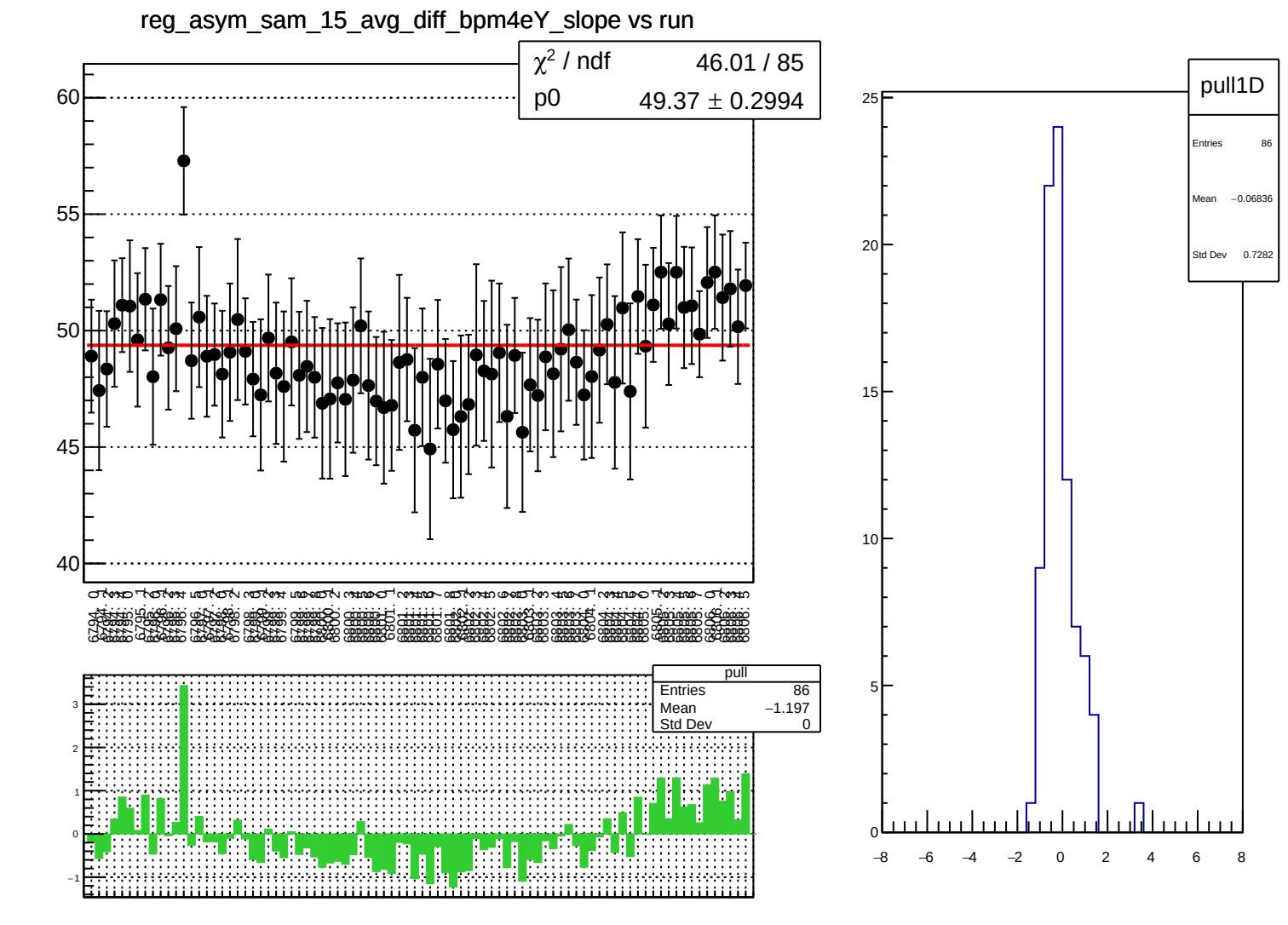

pull1D
Entries 86
Mean −0.001689
Std Dev 0.8632
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

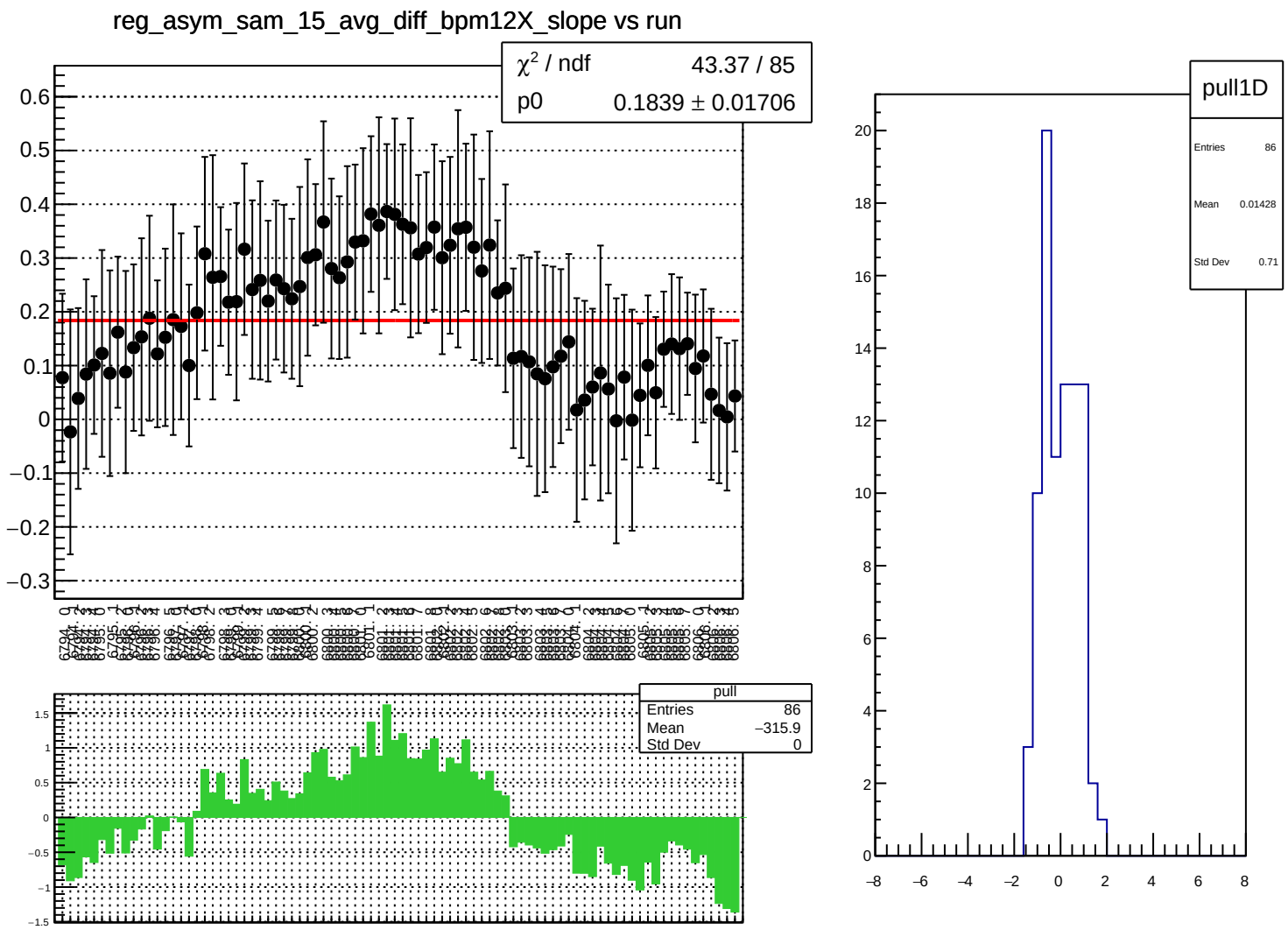

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 9.133 / 85
p0 2.087 ± 0.4504
pull
Entries 86
Mean −21.39
Std Dev 0
pull1D
Entries 86
Mean 0.01936
Std Dev 0.3253

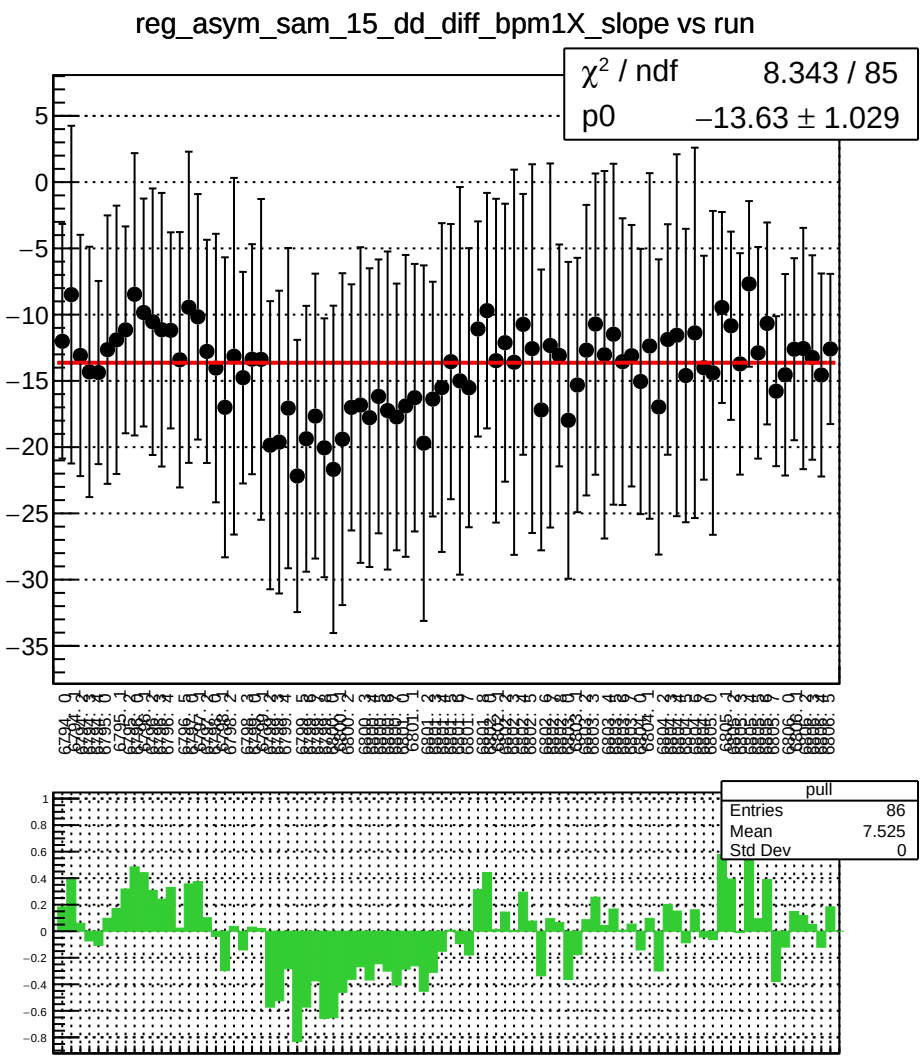

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 38.73 / 85
p0 0.5488 ± 0.2176
pull
Entries 86
Mean 71.64
Std Dev 0
pull1D
Entries 86
Mean 0.04034
Std Dev 0.6698

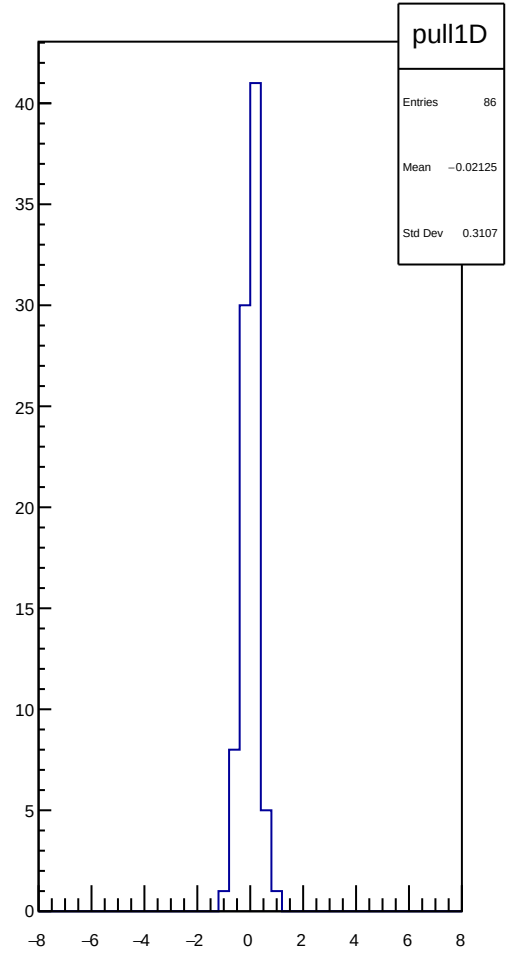

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 10.39 / 85
p0 −4.077 ± 0.4216
pull
Entries 86
Mean −21.25
Std Dev 0

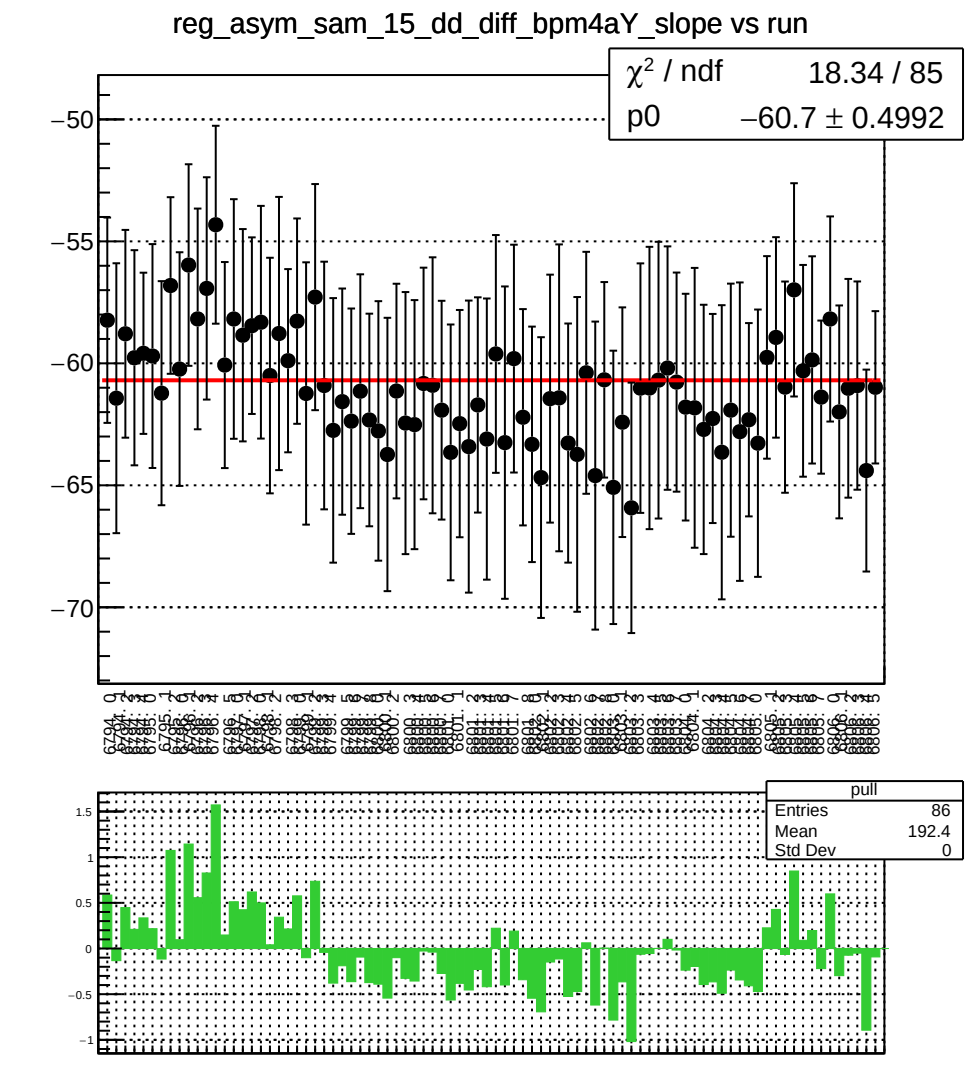

pull1D
Entries 86
Mean −0.01811
Std Dev 0.347

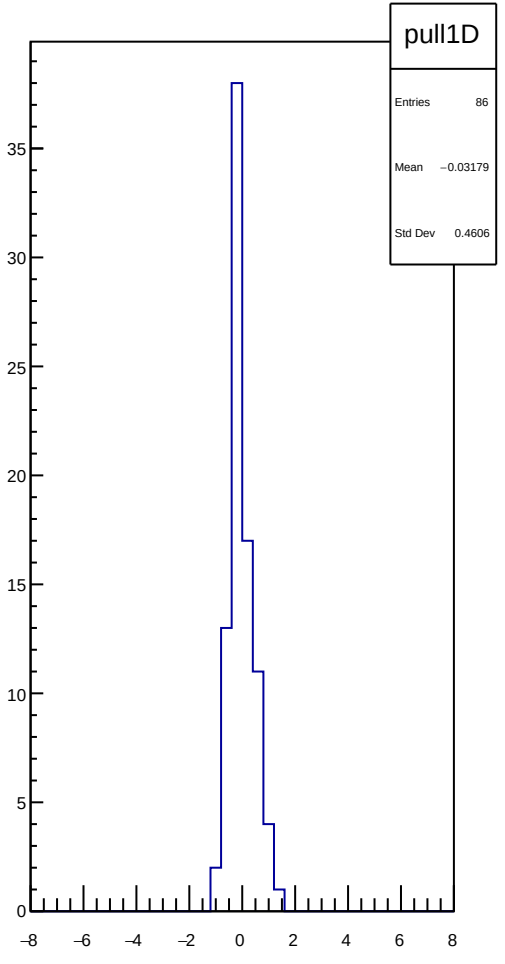

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 46.01 / 85
p0 49.37 ± 0.2994
pull
Entries 86
Mean −1.197
Std Dev 0
pull1D
Entries 86
Mean −0.06836
Std Dev 0.7282

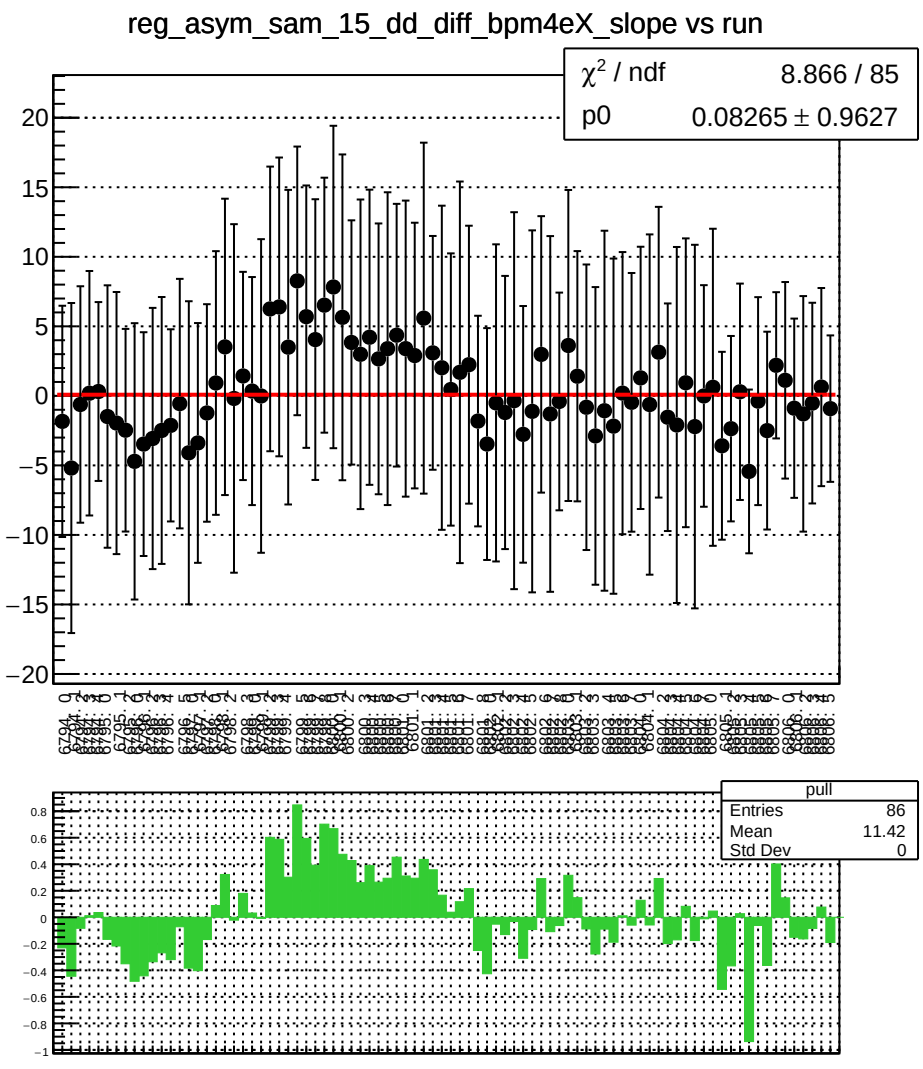

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 43.37 / 85
p0 0.1839 ± 0.01706
pull
Entries 86
Mean −315.9
Std Dev 0
pull1D
Entries 86
Mean 0.01428
Std Dev 0.71

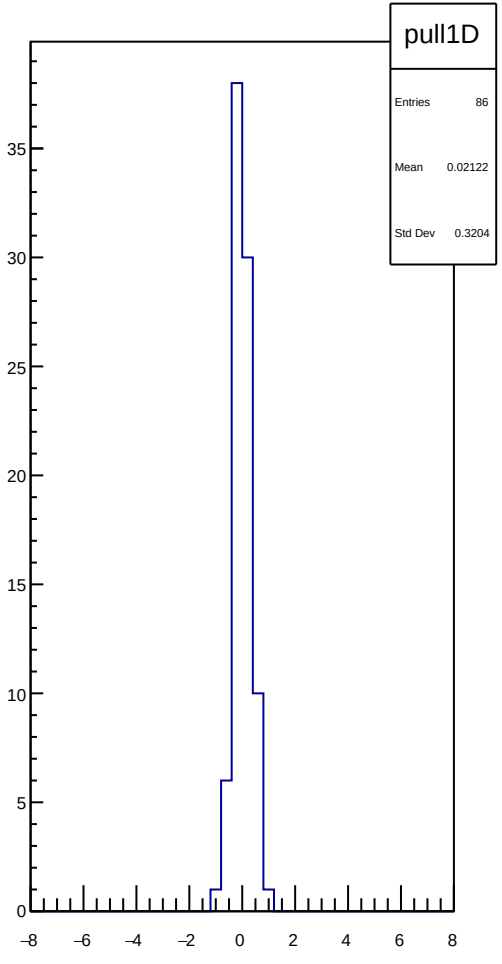

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 8.343 / 85
p0 −13.63 ± 1.029
pull
Entries 86
Mean 7.525
Std Dev 0

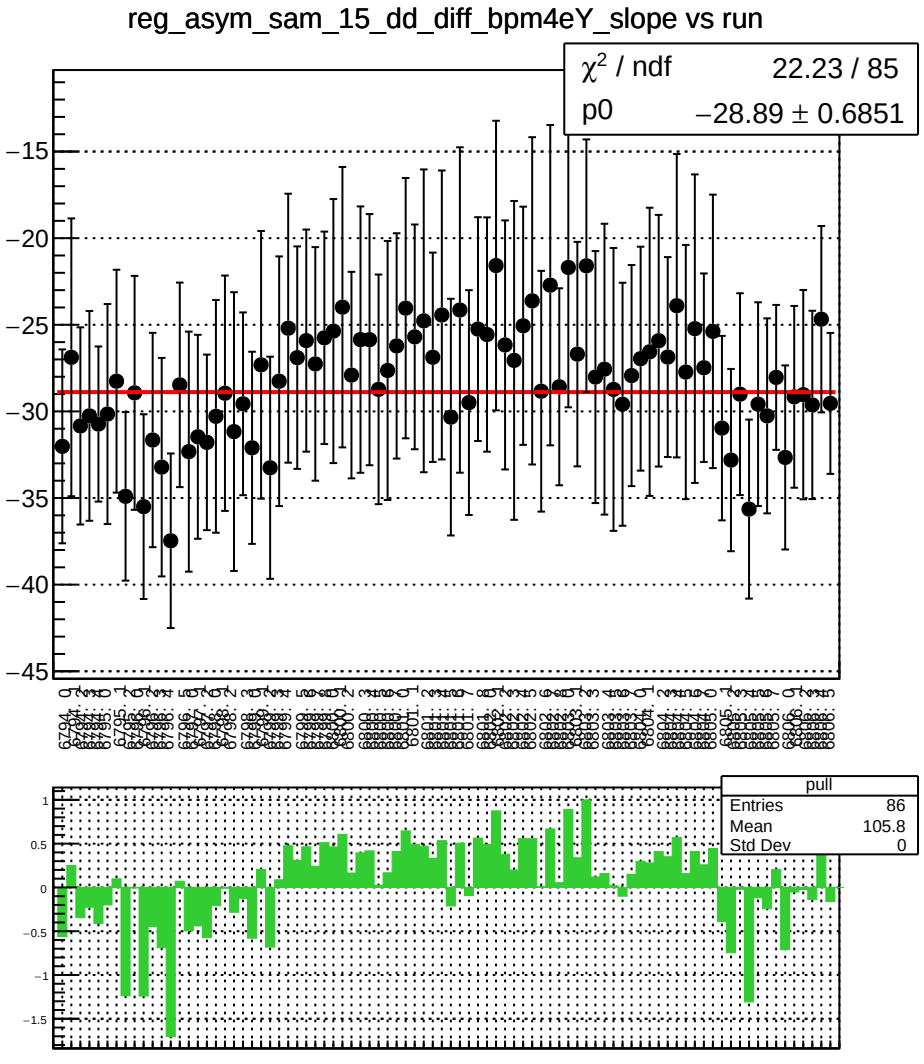

pull1D
Entries 86
Mean −0.02125
Std Dev 0.3107

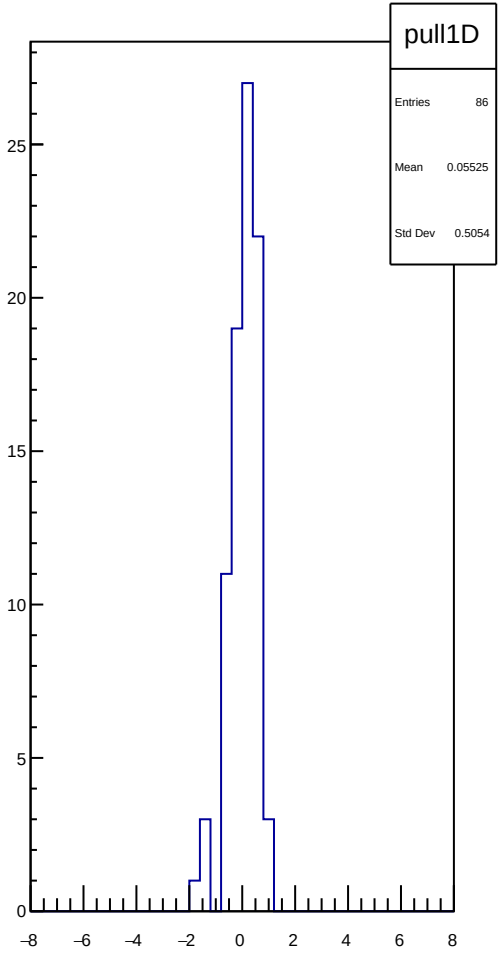

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.34 / 85
p0 −60.7 ± 0.4992
−50
−55
−60
−65
−70
pull
Entries 86
Mean 192.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1

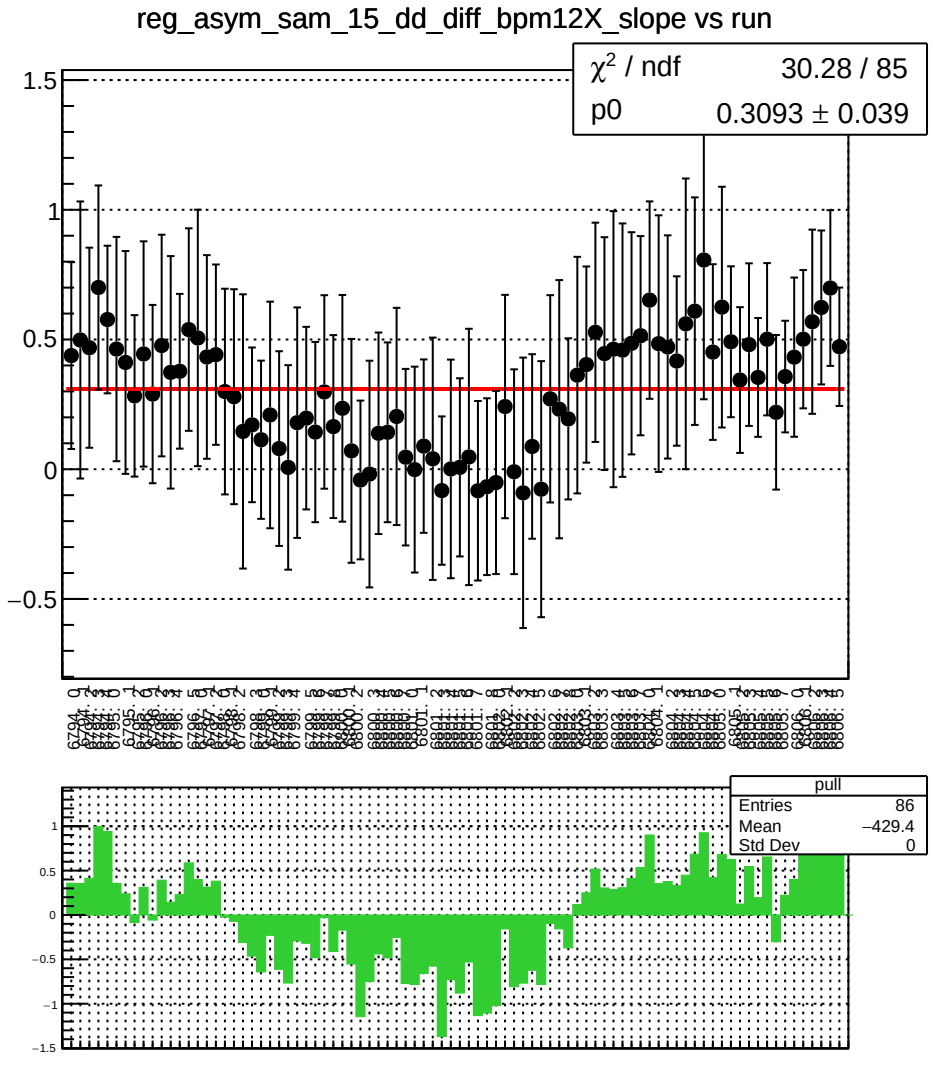

pull1D
Entries 86
Mean −0.03179
Std Dev 0.4606
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

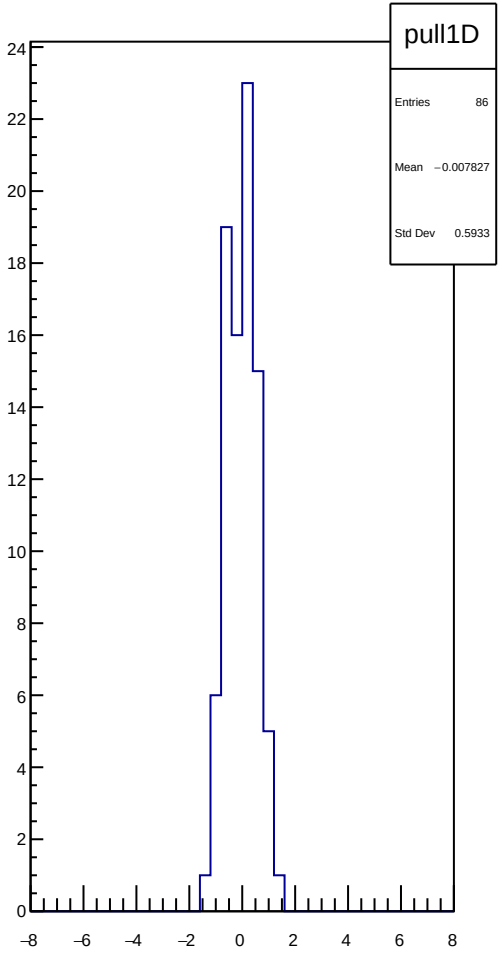

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.866 / 85
p0 0.08265 ± 0.9627
pull
Entries 86
Mean 11.42
Std Dev 0

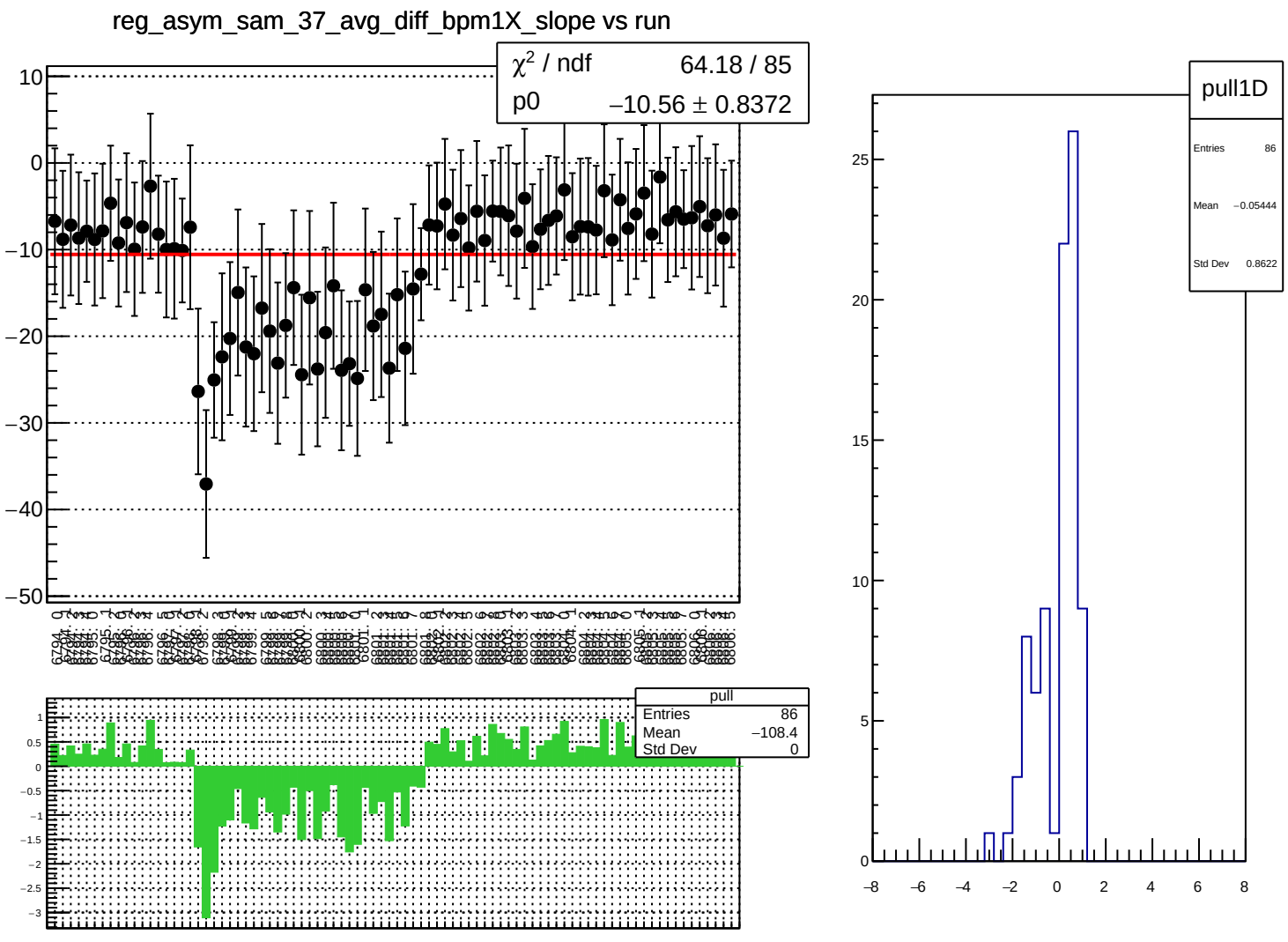

pull1D
Entries 86
Mean 0.02122
Std Dev 0.3204

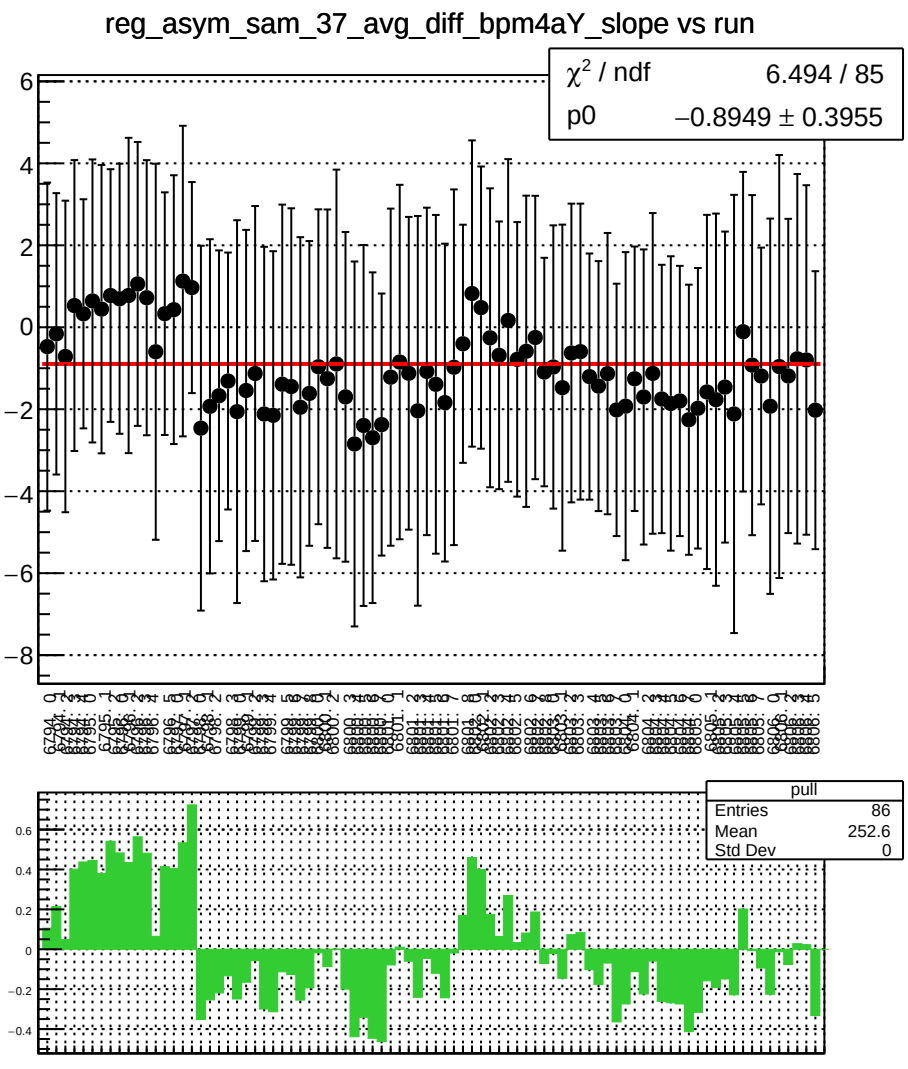

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.23 / 85
p0 −28.89 ± 0.6851
pull
Entries 86
Mean 105.8
Std Dev 0

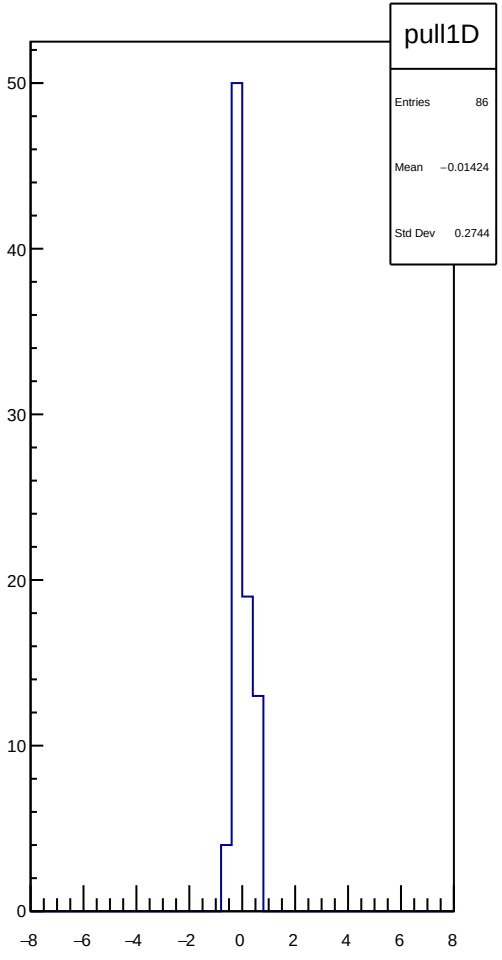

pull1D
Entries 86
Mean 0.05525
Std Dev 0.5054

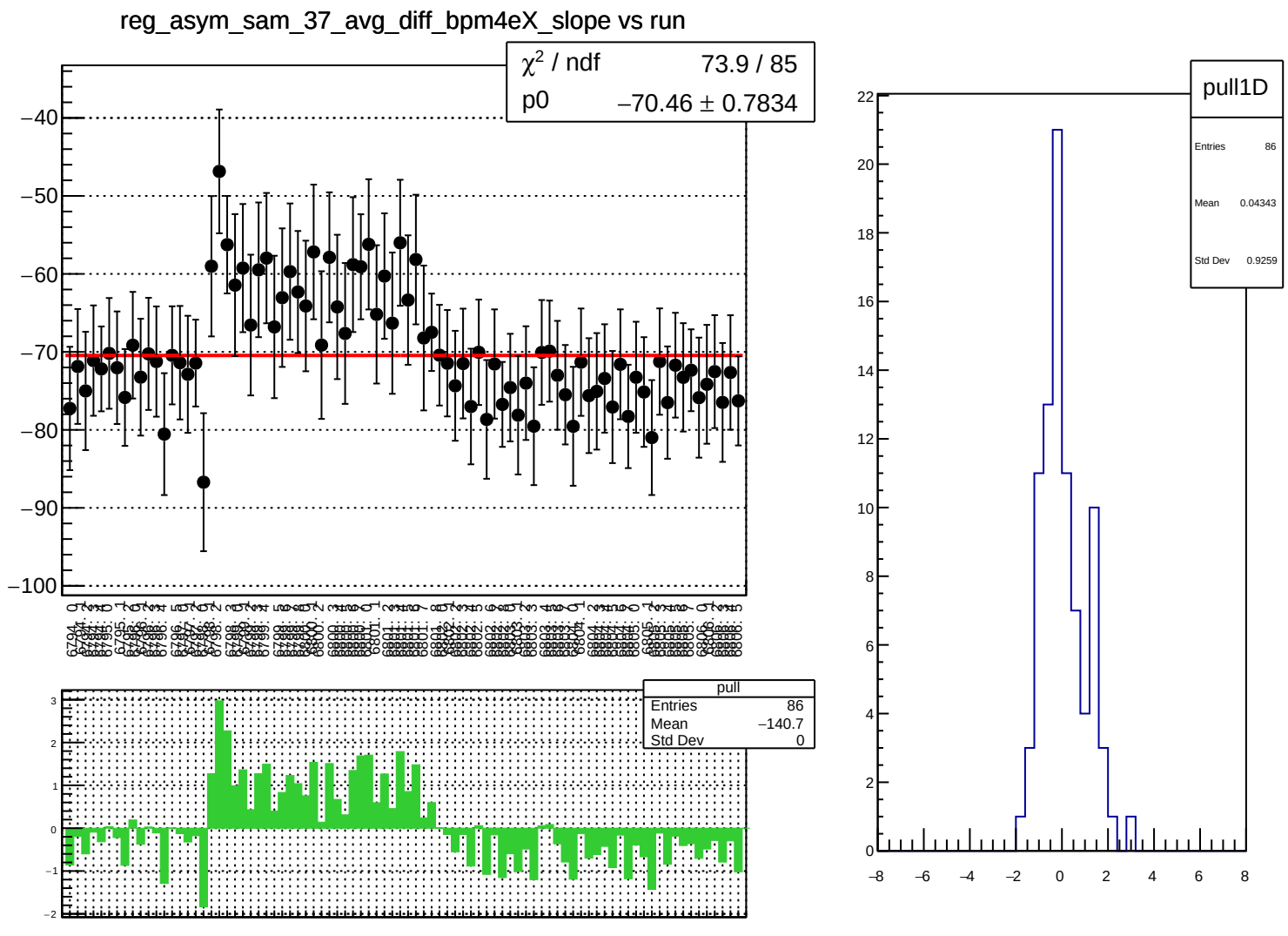

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 30.28 / 85
p0 0.3093 ± 0.039
pull
Entries 86
Mean −429.4
Std Dev 0

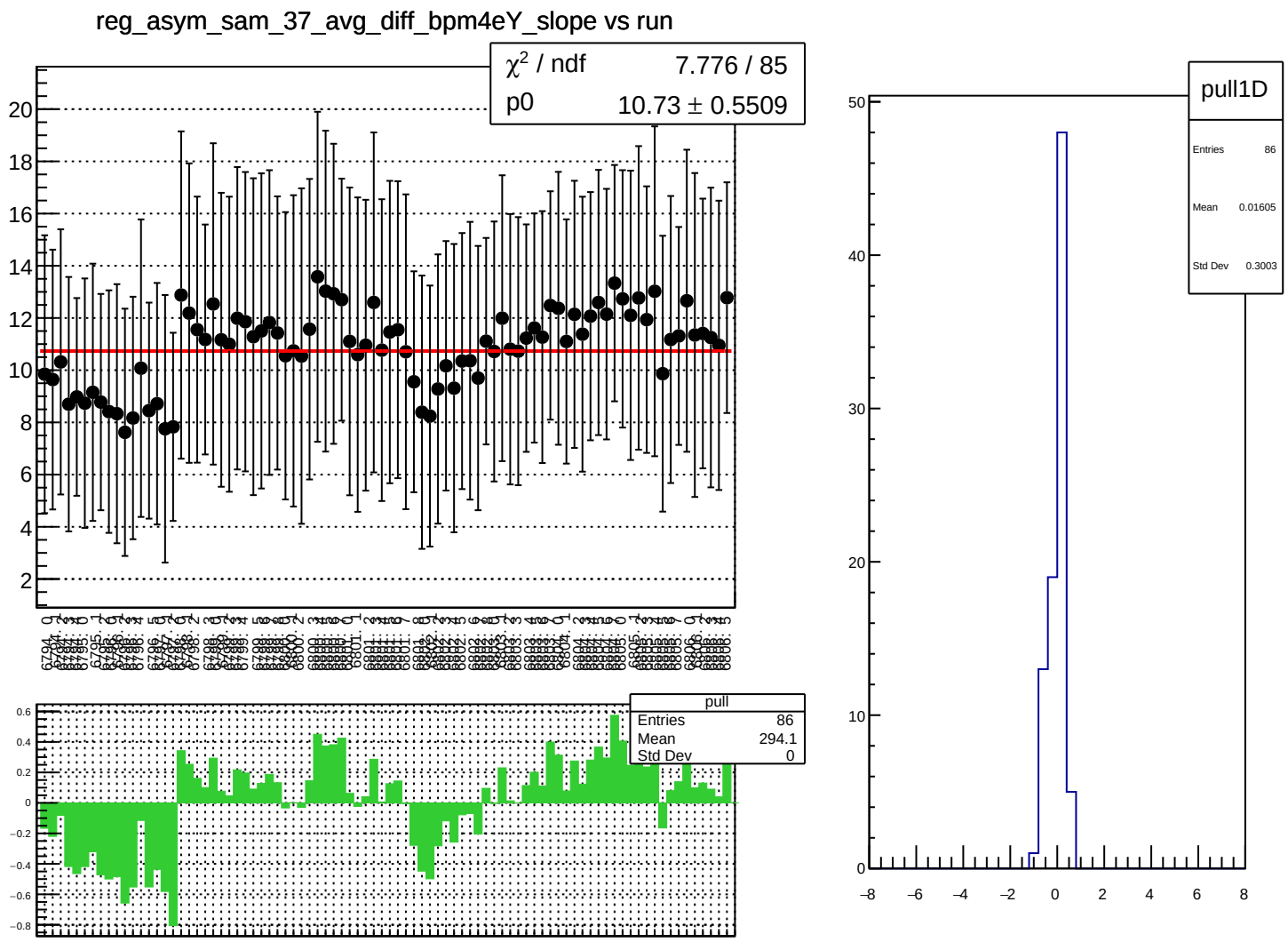

pull1D
Entries 86
Mean −0.007827
Std Dev 0.5933

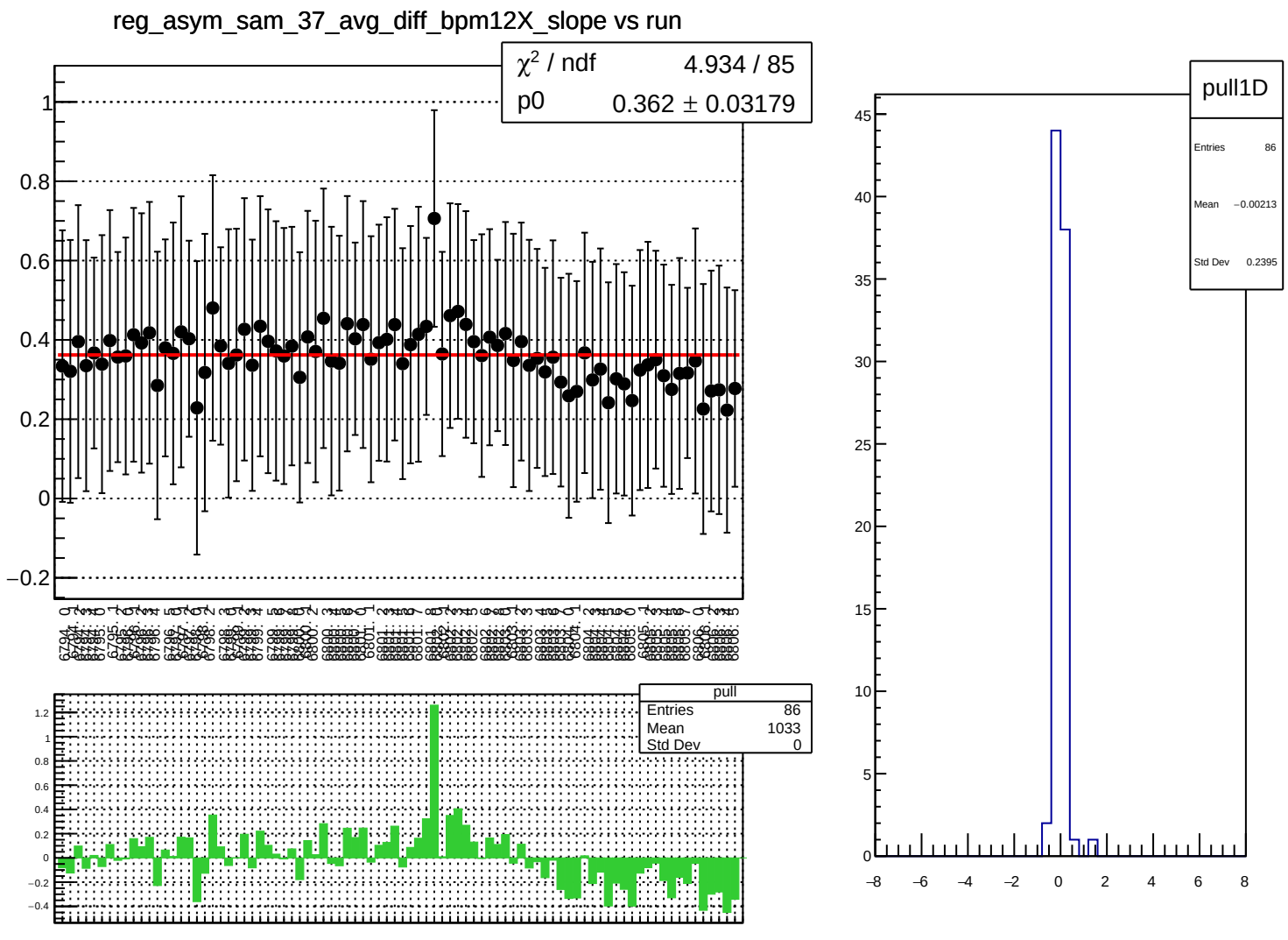

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 64.18 / 85
p0 −10.56 ± 0.8372
pull
Entries 86
Mean −108.4
Std Dev 0
pull1D
Entries 86
Mean −0.05444
Std Dev 0.8622

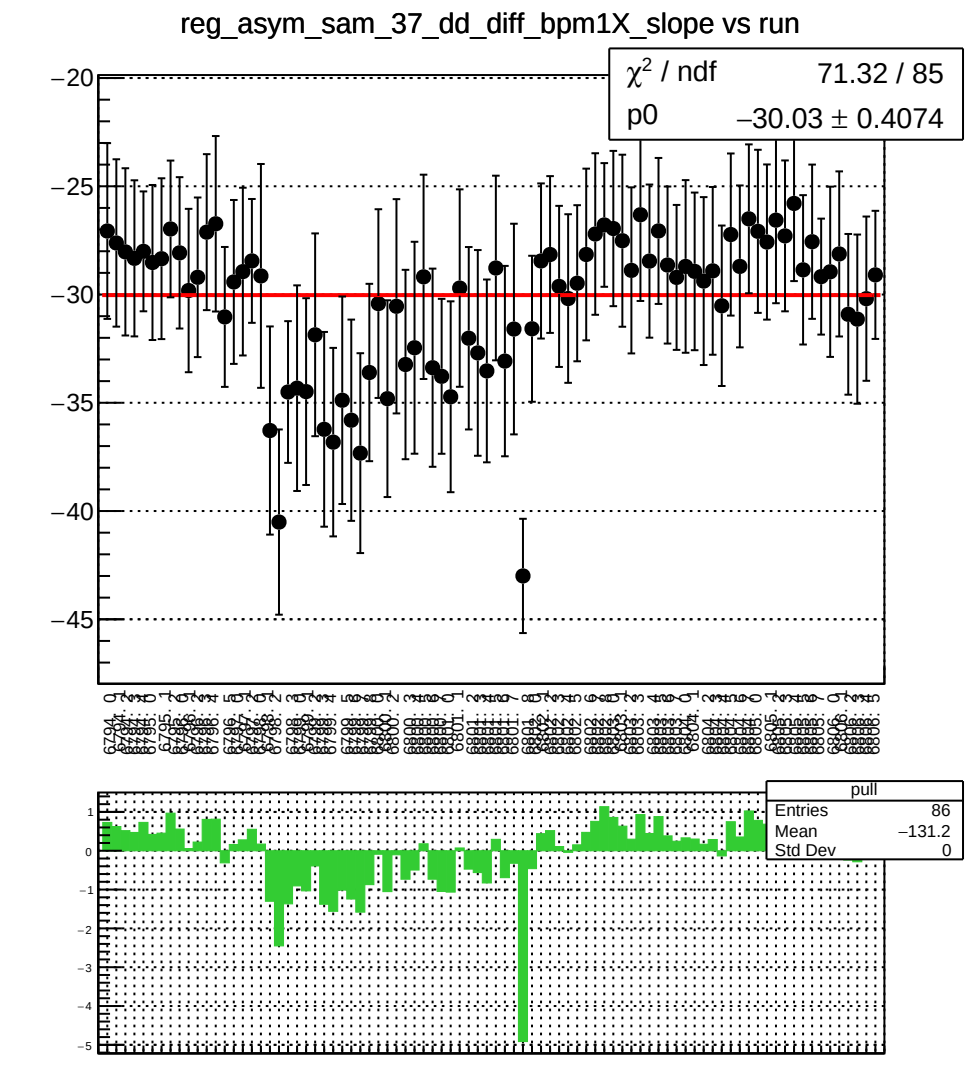

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.494 / 85
p0 −0.8949 ± 0.3955
pull
Entries 86
Mean 252.6
Std Dev 0

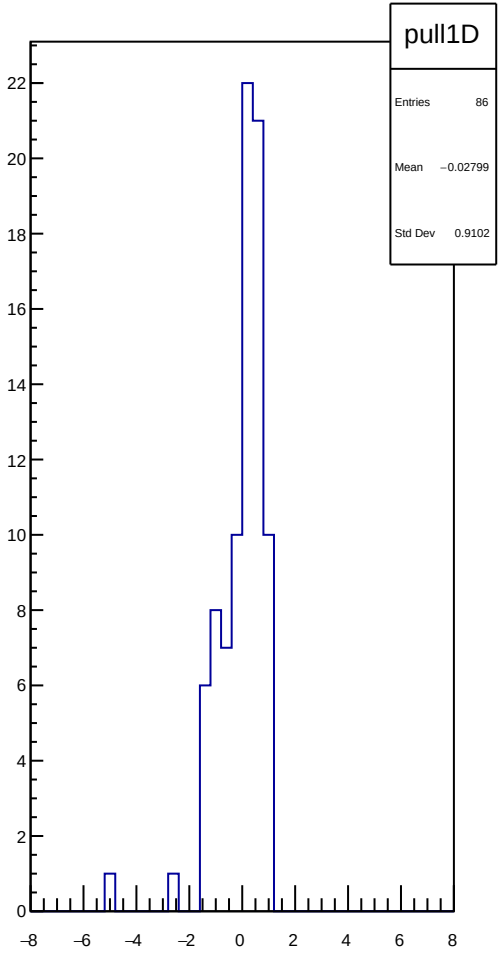

pull1D
Entries 86
Mean −0.01424
Std Dev 0.2744

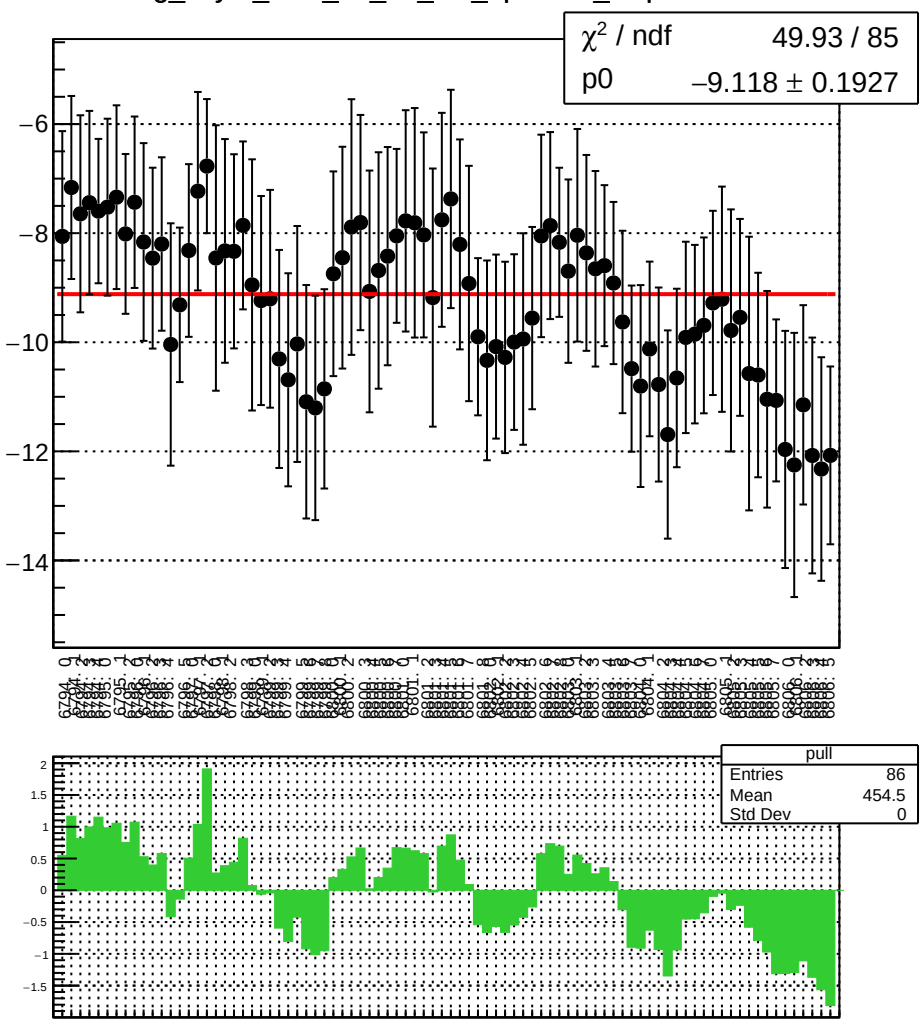

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 73.9 / 85
p0 −70.46 ± 0.7834
pull
Entries 86
Mean −140.7
Std Dev 0
pull1D
Entries 86
Mean 0.04343
Std Dev 0.9259

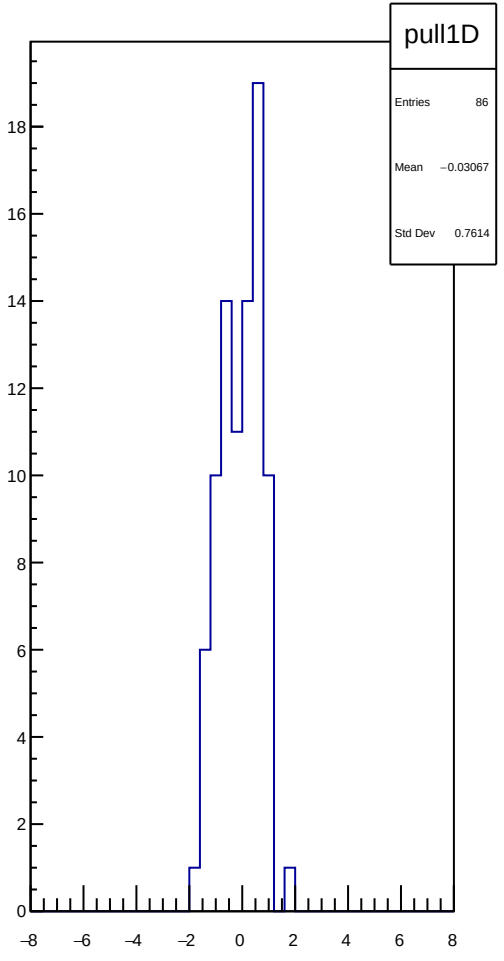

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.776 / 85
p0 10.73 ± 0.5509
pull
Entries 86
Mean 294.1
Std Dev 0
pull1D
Entries 86
Mean 0.01605
Std Dev 0.3003

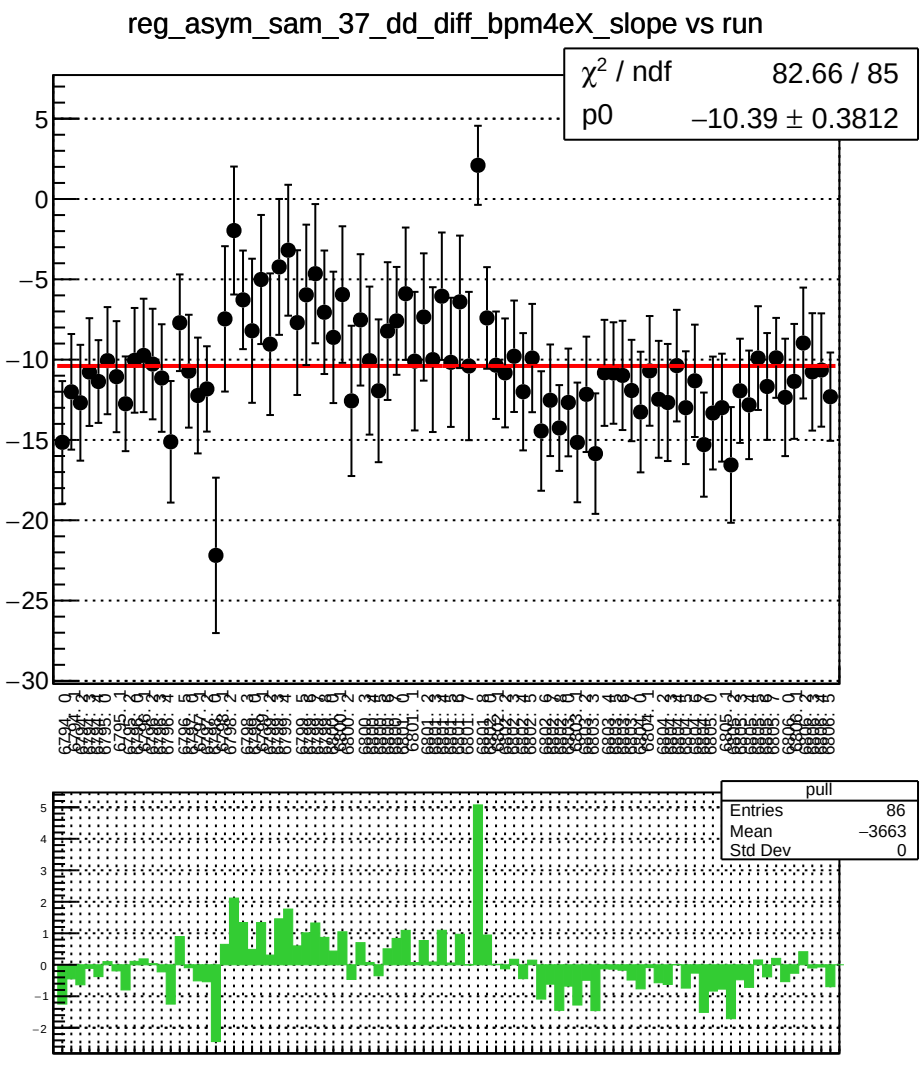

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 4.934 / 85
p0 0.362 ± 0.03179
pull
Entries 86
Mean 1033
Std Dev 0
pull1D
Entries 86
Mean −0.00213
Std Dev 0.2395

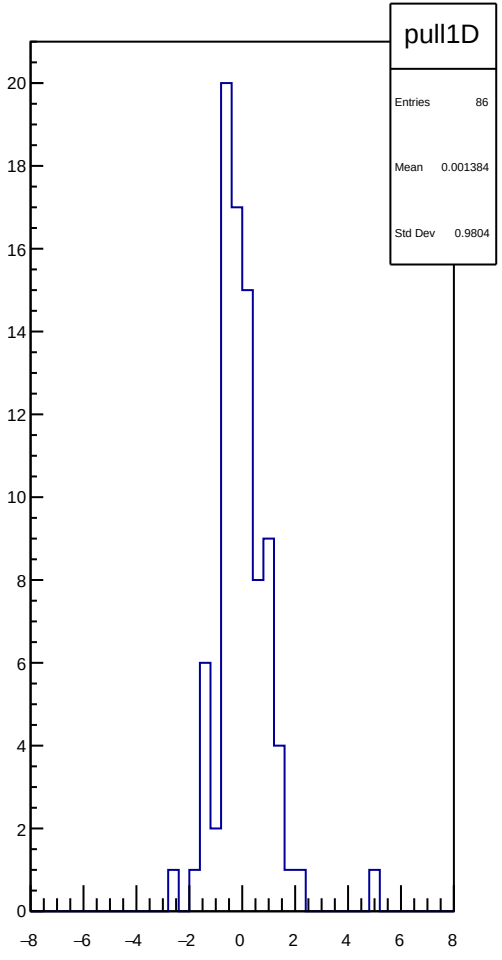

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 71.32 / 85
p0 −30.03 ± 0.4074
pull
Entries 86
Mean −131.2
Std Dev 0

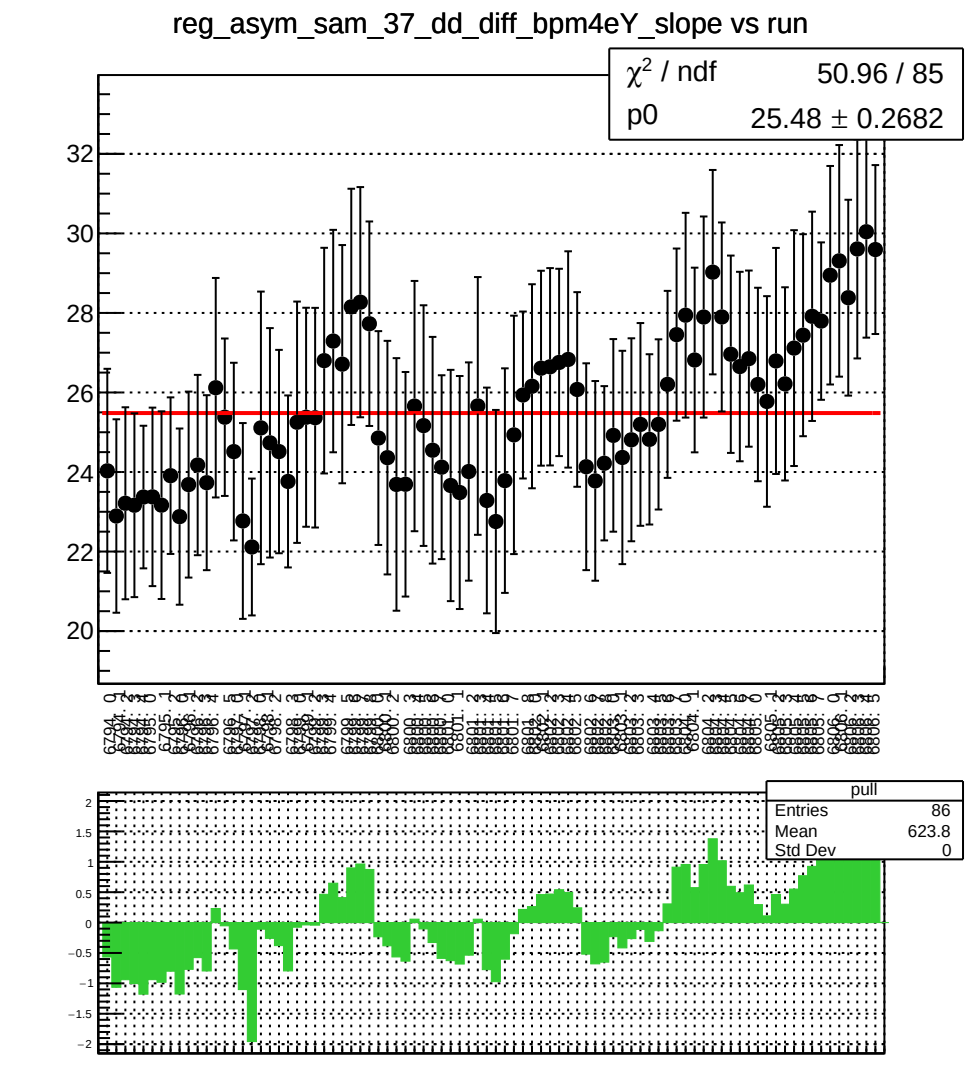

pull1D
Entries 86
Mean −0.02799
Std Dev 0.9102

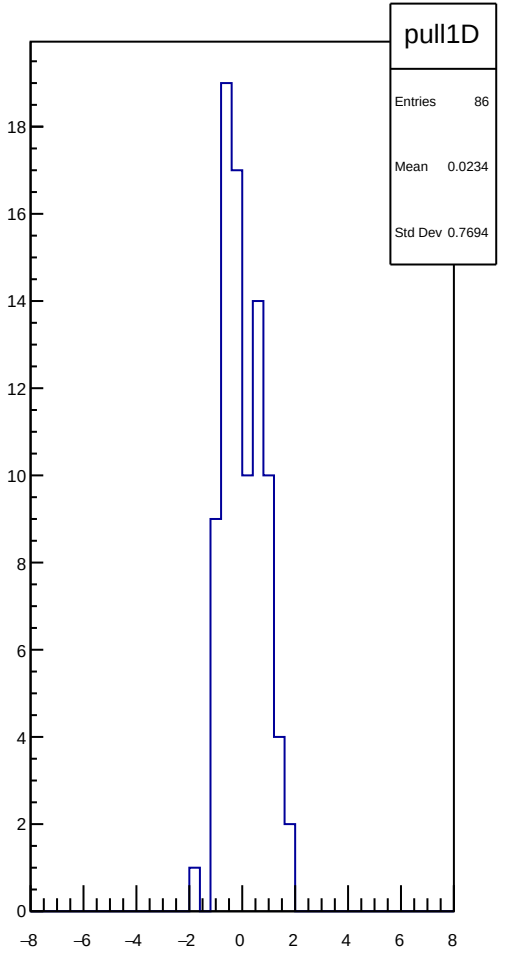

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.93 / 85
p0 −9.118 ± 0.1927
pull
Entries 86
Mean 454.5
Std Dev 0

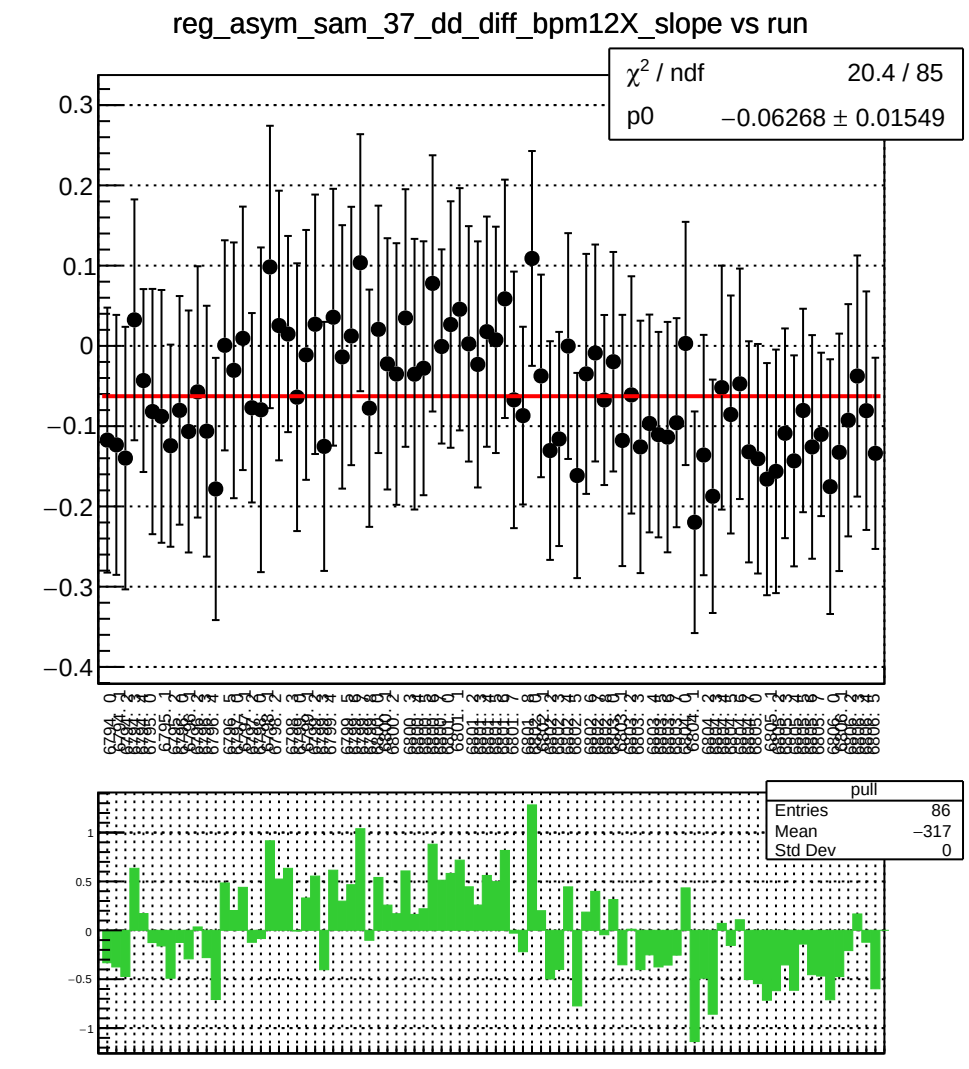

pull1D
Entries 86
Mean −0.03067
Std Dev 0.7614

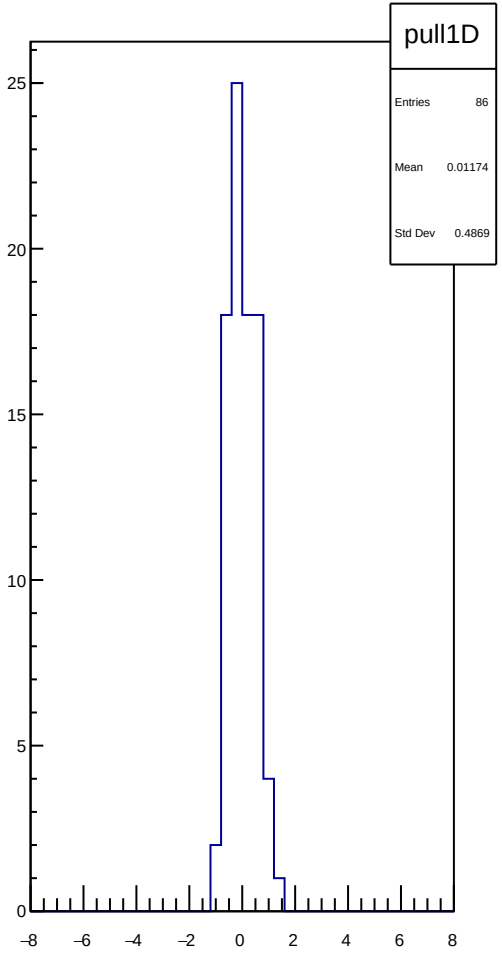

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 82.66 / 85
p0 −10.39 ± 0.3812
pull
Entries 86
Mean −3663
Std Dev 0

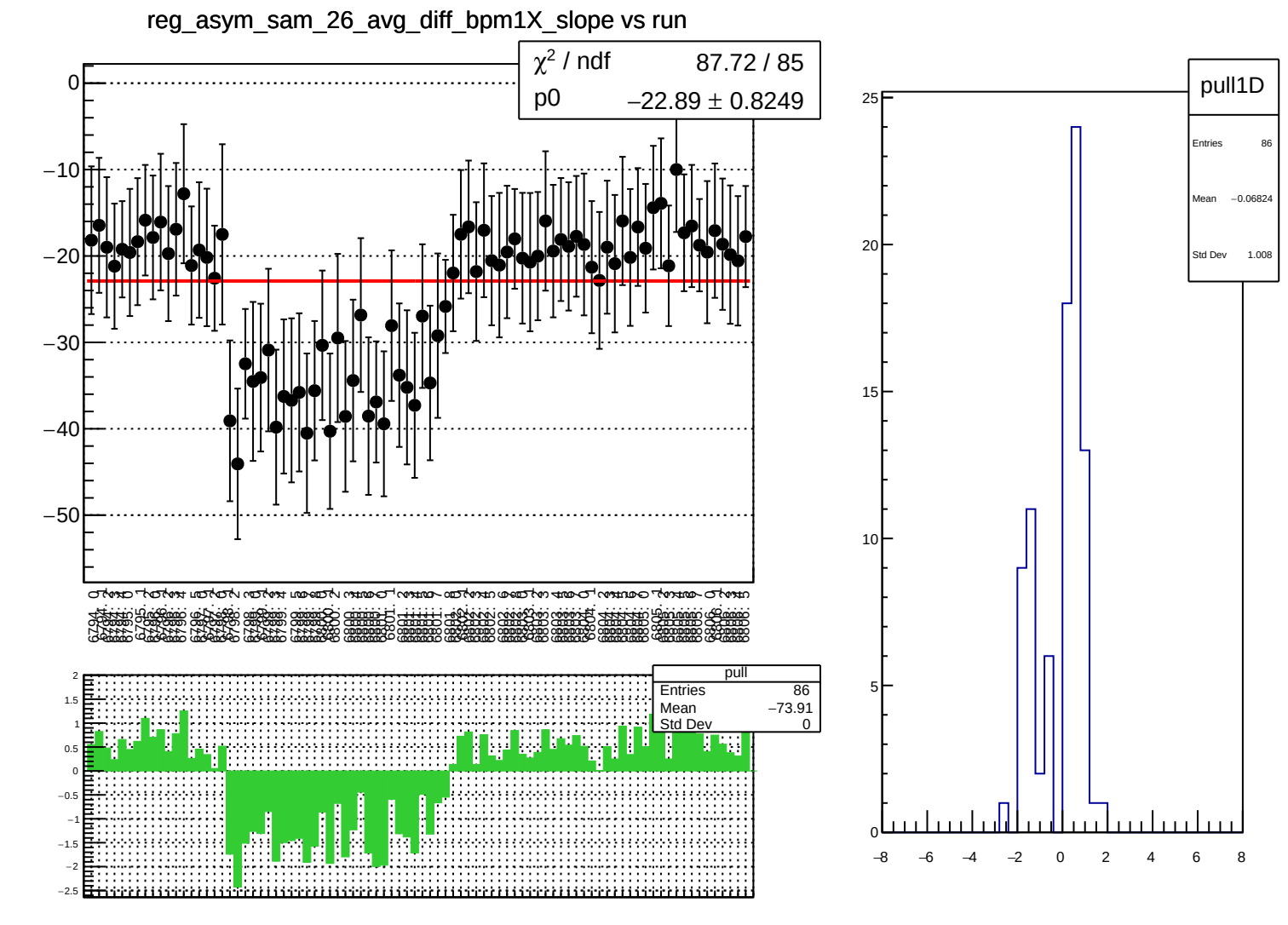

pull1D
Entries 86
Mean 0.001384
Std Dev 0.9804

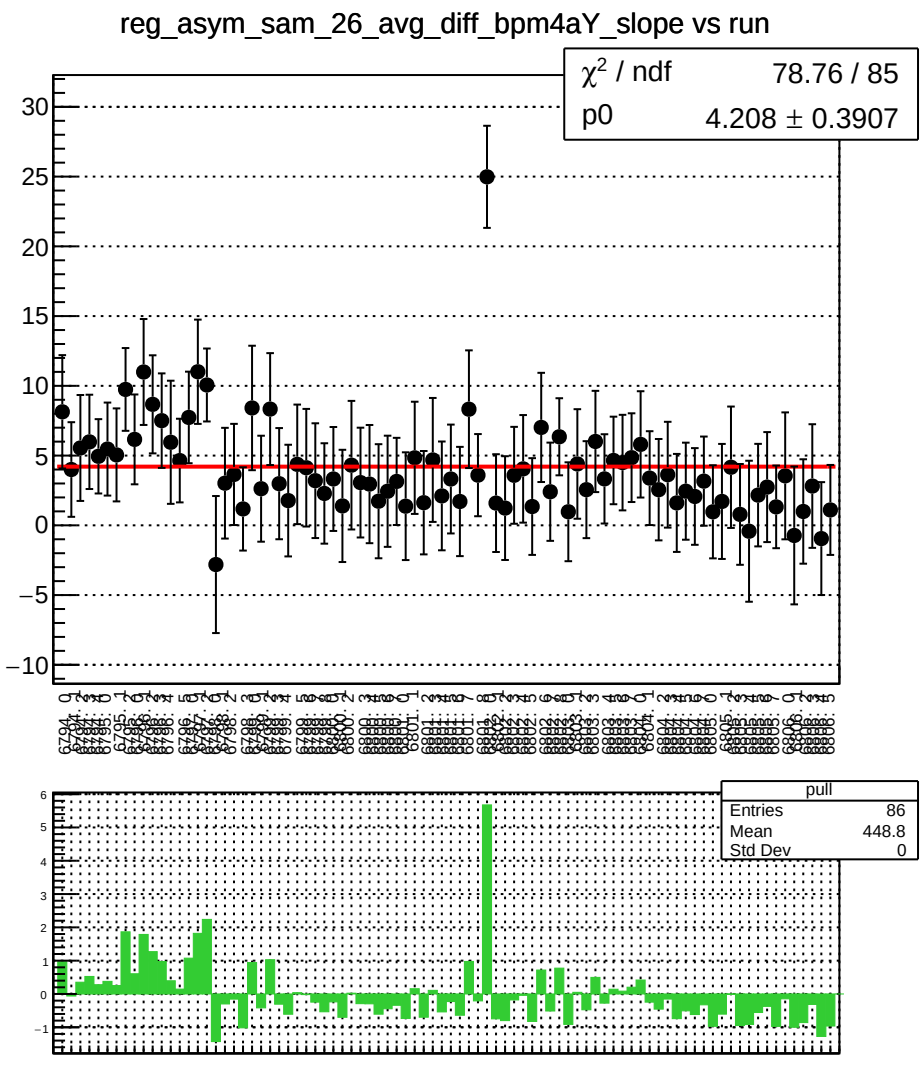

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.96 / 85
p0 25.48 ± 0.2682
pull
Entries 86
Mean 623.8
Std Dev 0

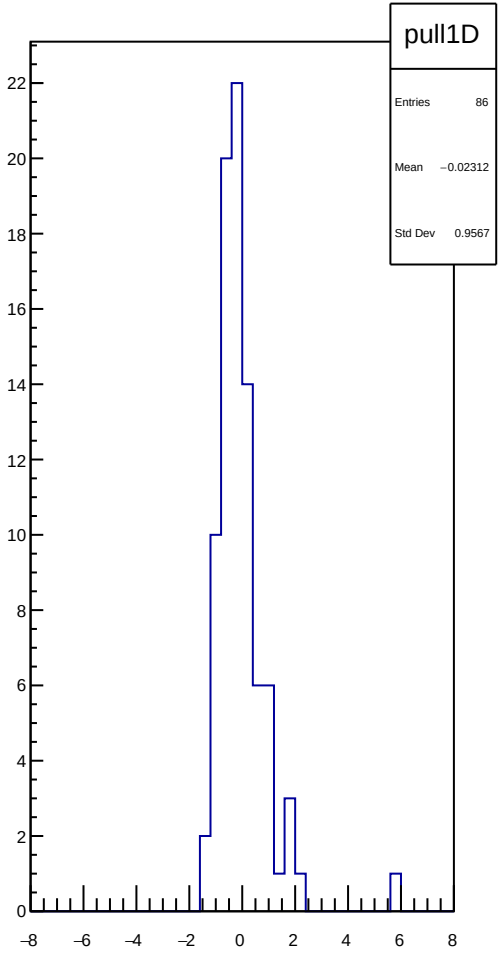

pull1D
Entries 86
Mean 0.0234
Std Dev 0.7694

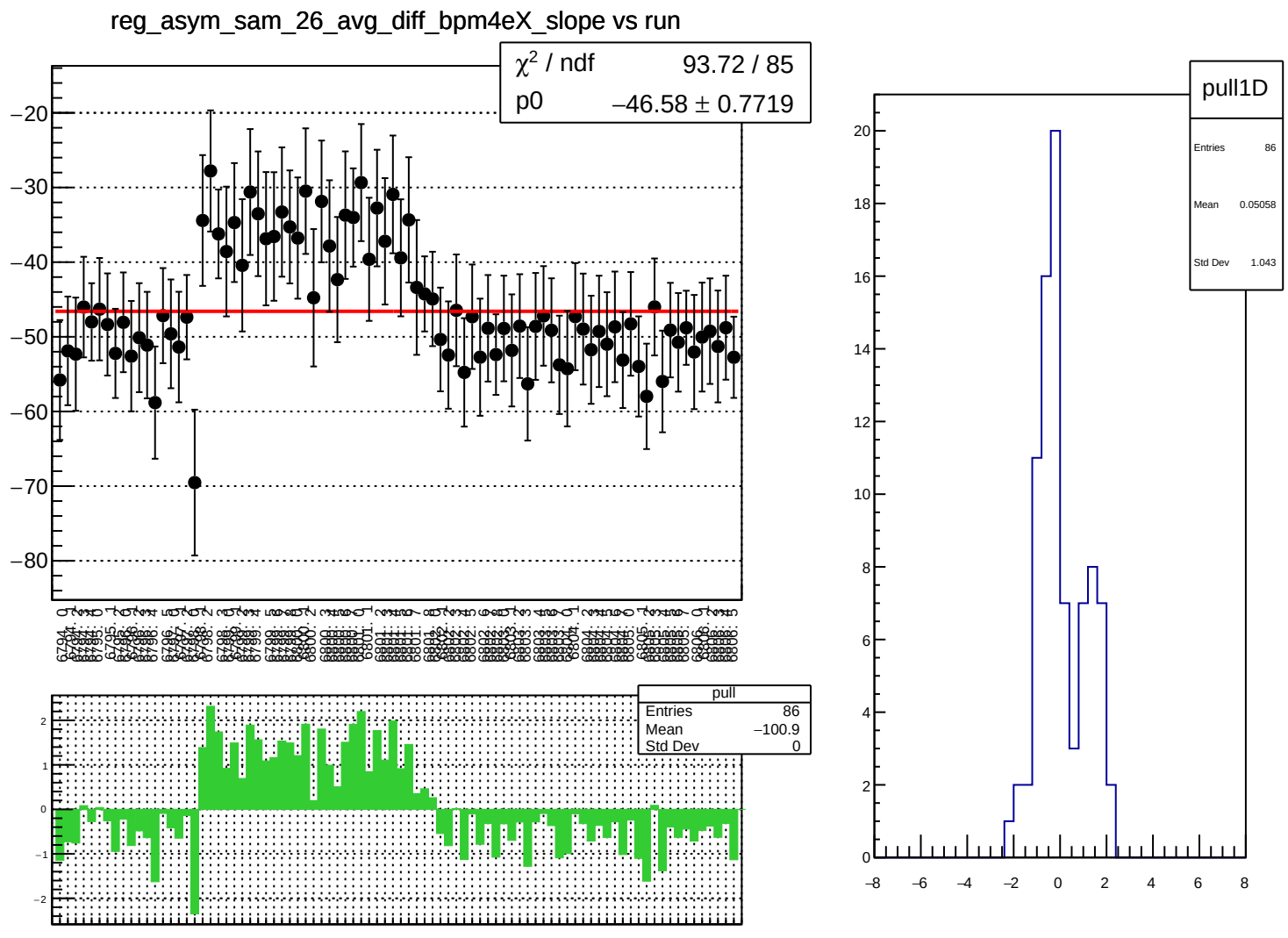

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 20.4 / 85
p0 −0.06268 ± 0.01549
pull
Entries 86
Mean −317
Std Dev 0

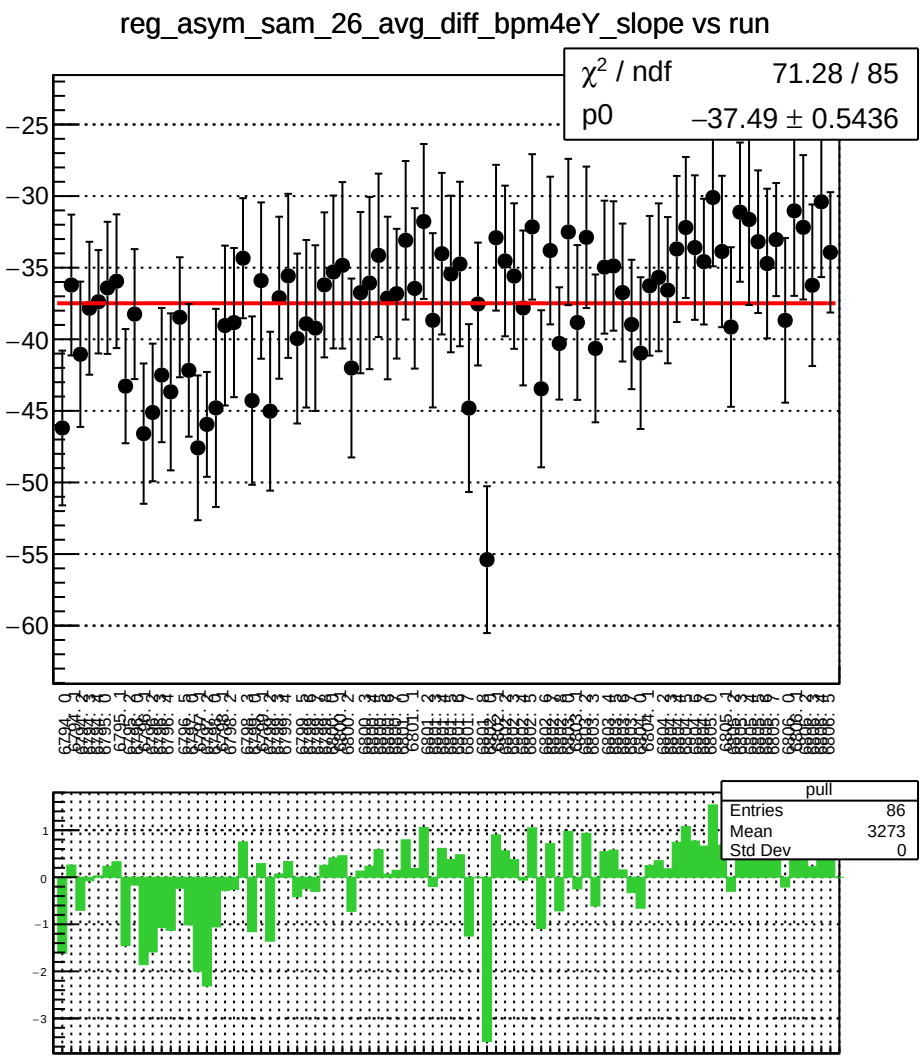

pull1D
Entries 86
Mean 0.01174
Std Dev 0.4869

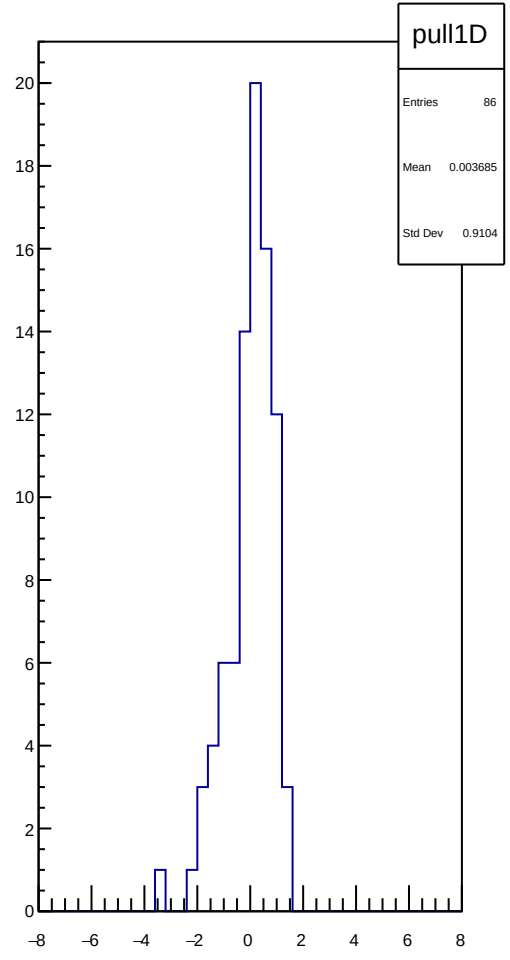

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 87.72 / 85
p0 −22.89 ± 0.8249
pull
Entries 86
Mean −73.91
Std Dev 0
pull1D
Entries 86
Mean −0.06824
Std Dev 1.008

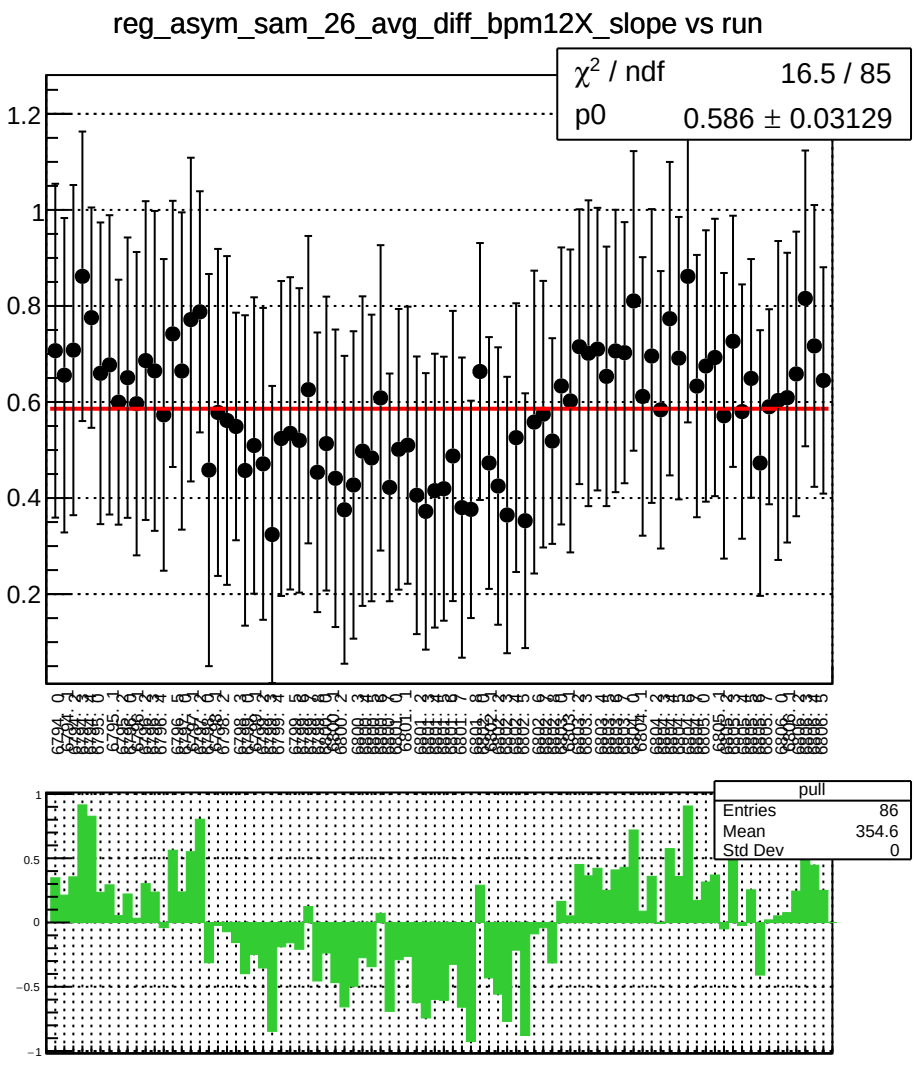

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 78.76 / 85
p0 4.208 ± 0.3907
pull
Entries 86
Mean 448.8
Std Dev 0

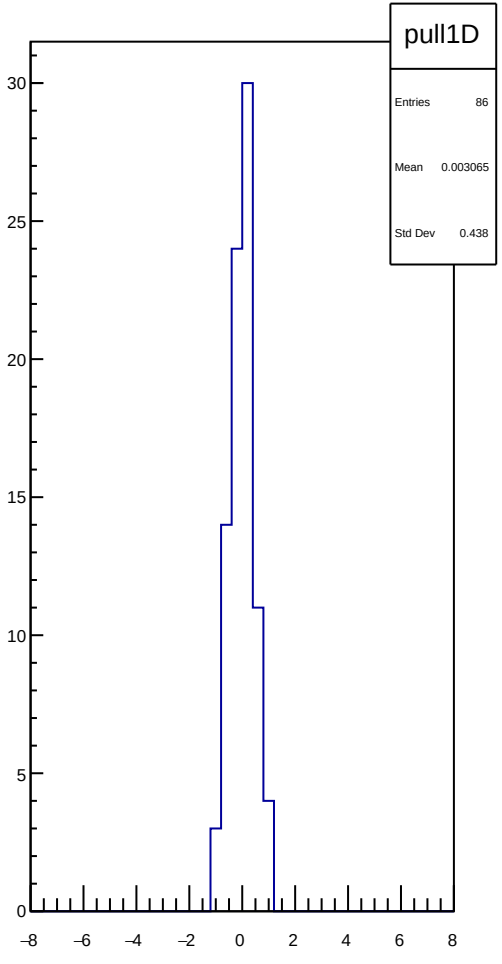

pull1D
Entries 86
Mean −0.02312
Std Dev 0.9567

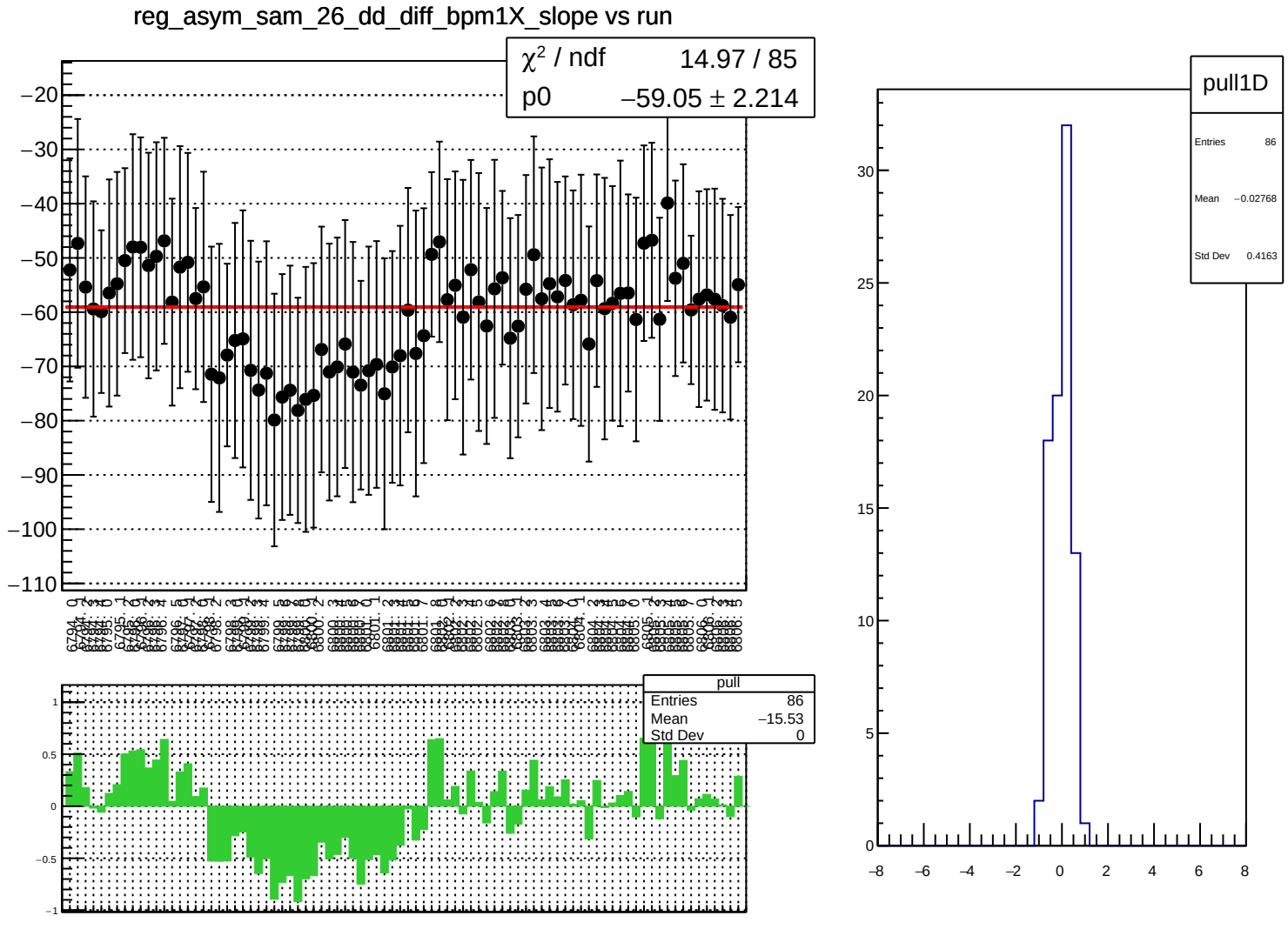

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 93.72 / 85
p0 −46.58 ± 0.7719
pull
Entries 86
Mean −100.9
Std Dev 0
pull1D
Entries 86
Mean 0.05058
Std Dev 1.043

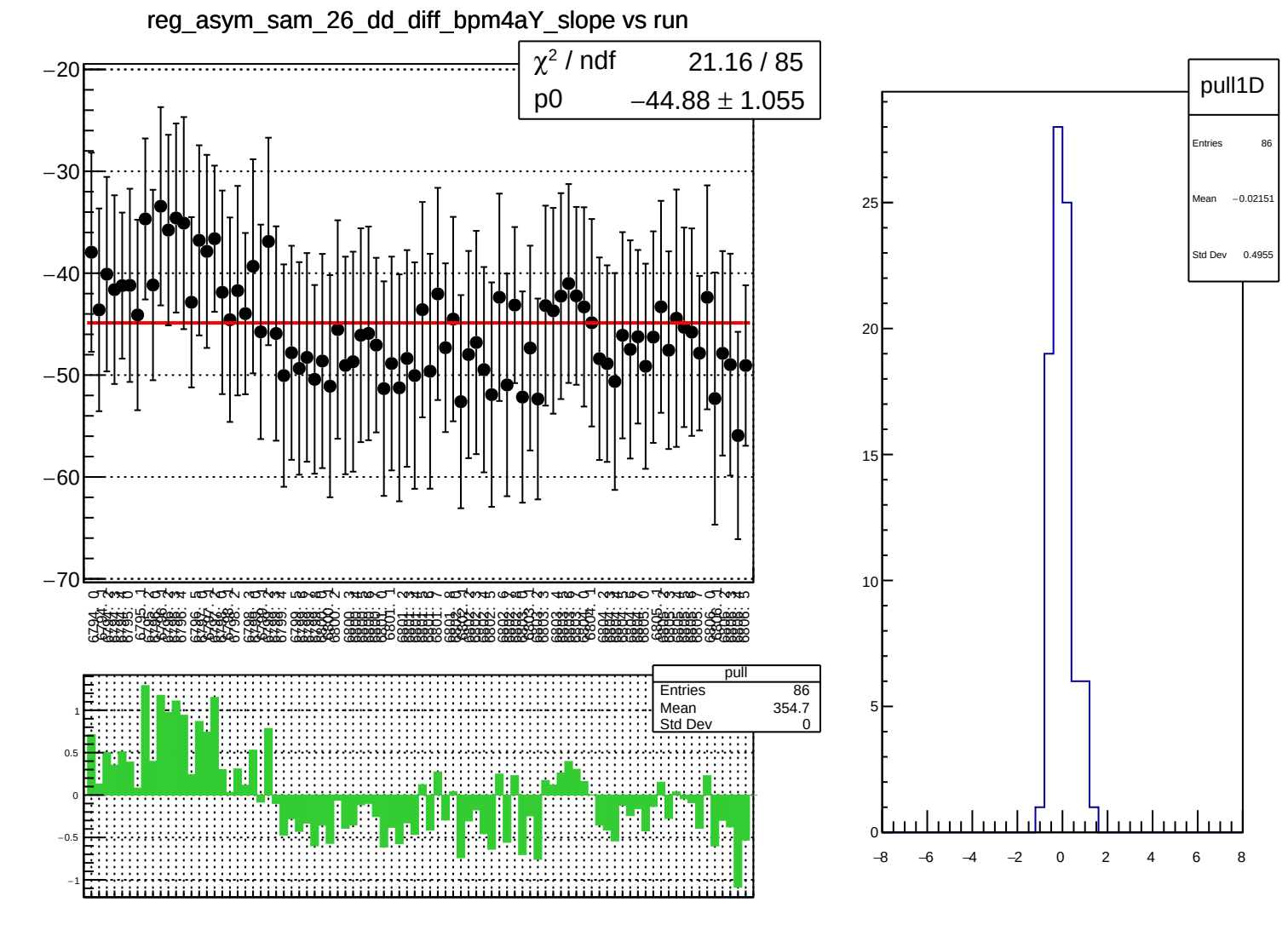

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.28 / 85
p0 −37.49 ± 0.5436
pull
Entries 86
Mean 3273
Std Dev 0

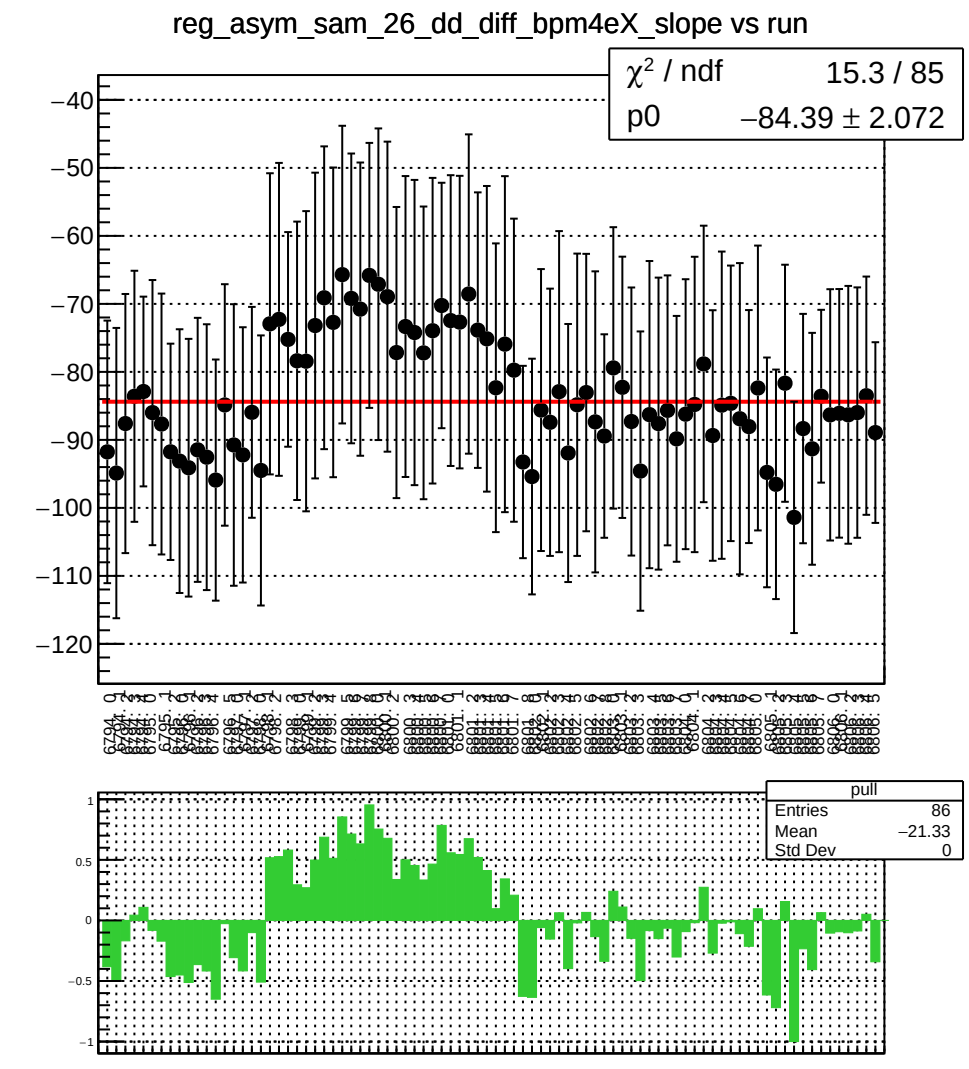

pull1D
Entries 86
Mean 0.003685
Std Dev 0.9104

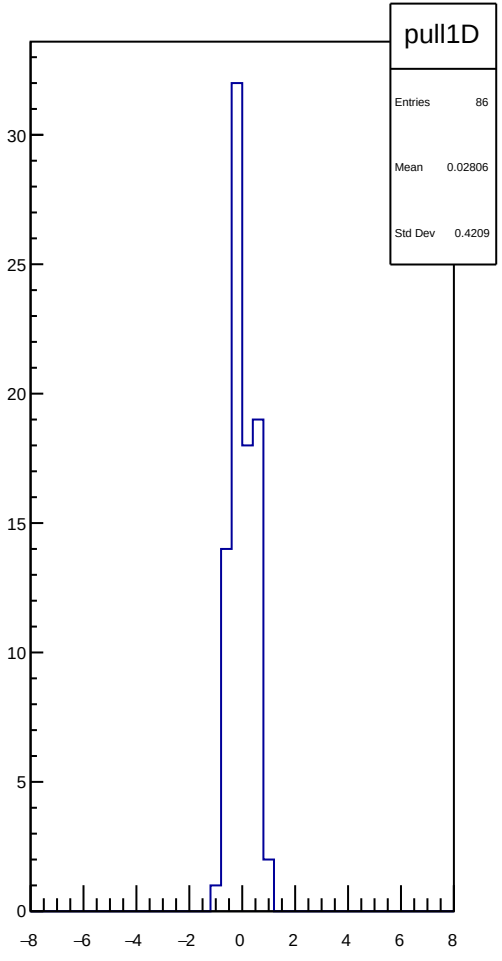

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 16.5 / 85
p0 0.586 ± 0.03129
pull
Entries 86
Mean 354.6
Std Dev 0

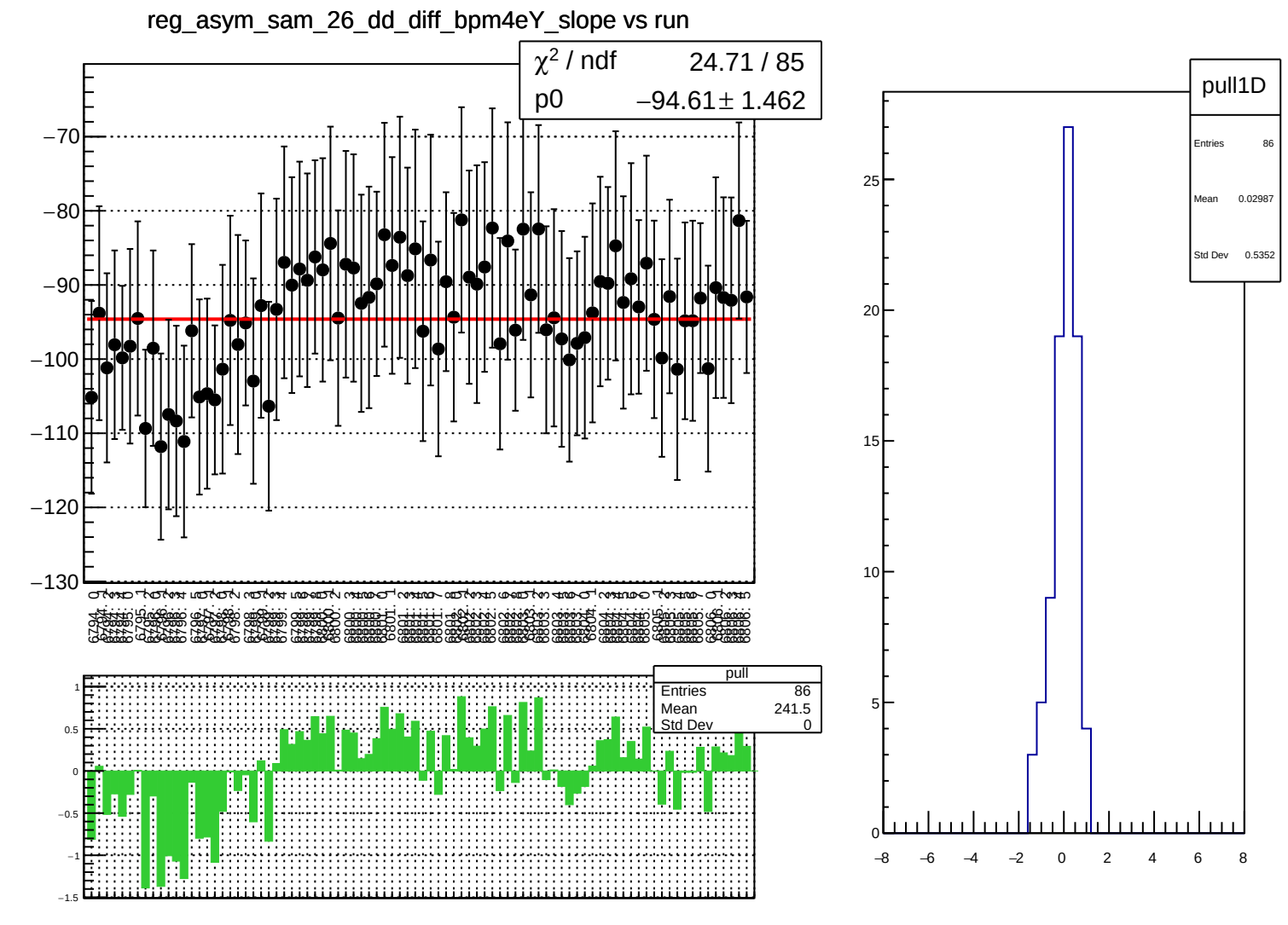

pull1D
Entries 86
Mean 0.003065
Std Dev 0.438

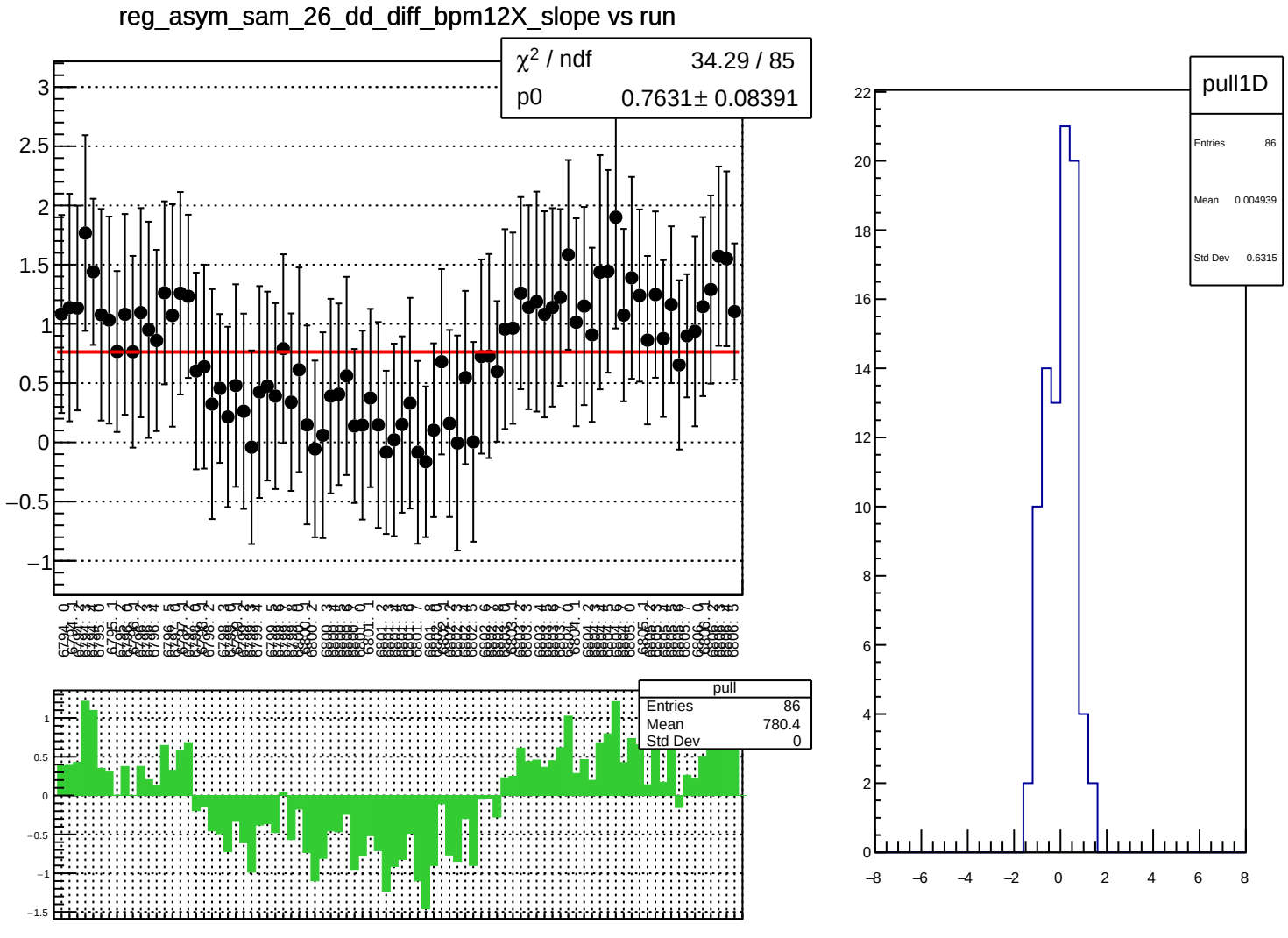

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 14.97 / 85
p0 −59.05 ± 2.214
pull
Entries 86
Mean −15.53
Std Dev 0
pull1D
Entries 86
Mean −0.02768
Std Dev 0.4163

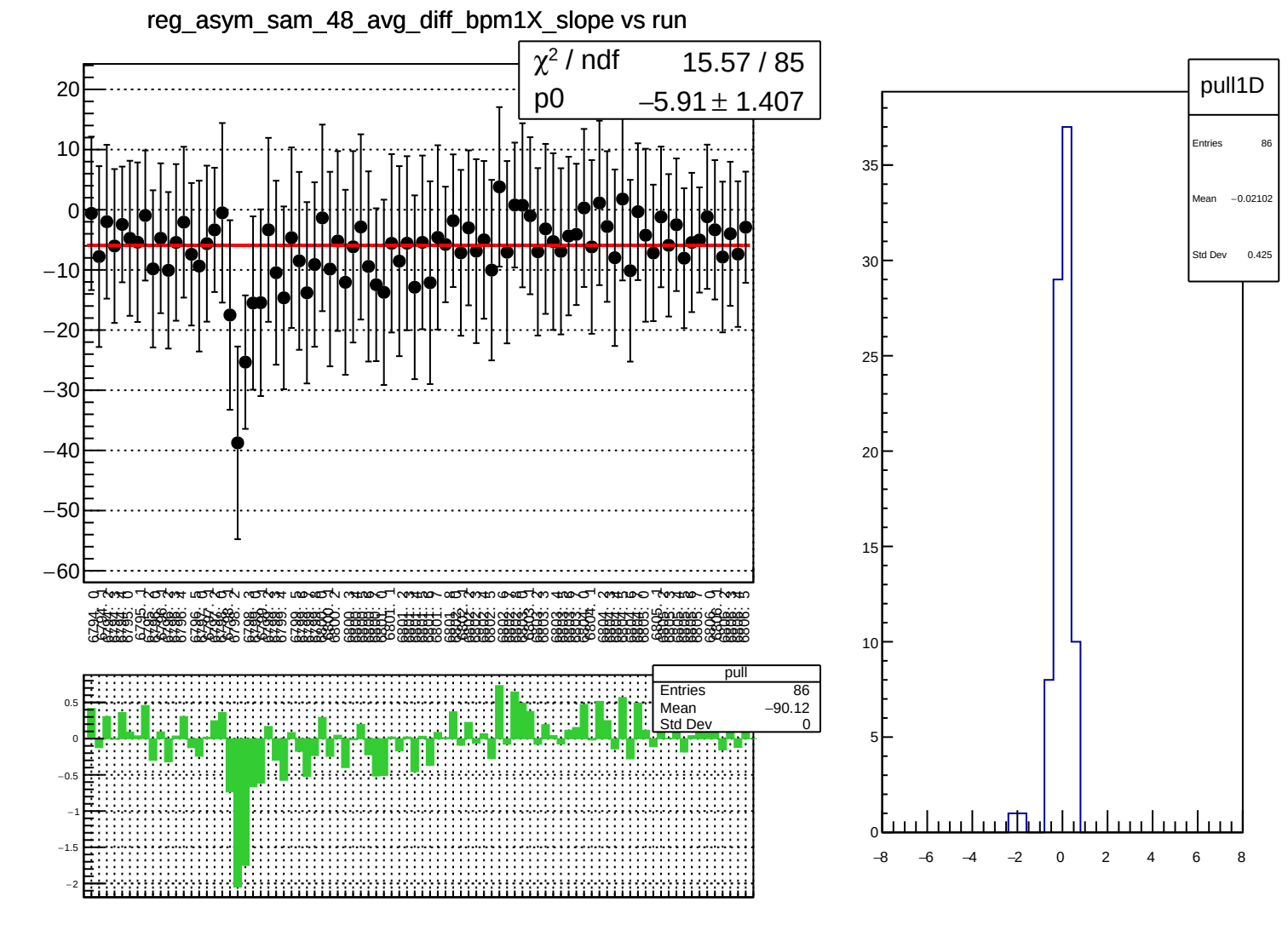

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.16 / 85
p0 −44.88 ± 1.055
pull
Entries 86
Mean 354.7
Std Dev 0
pull1D
Entries 86
Mean −0.02151
Std Dev 0.4955

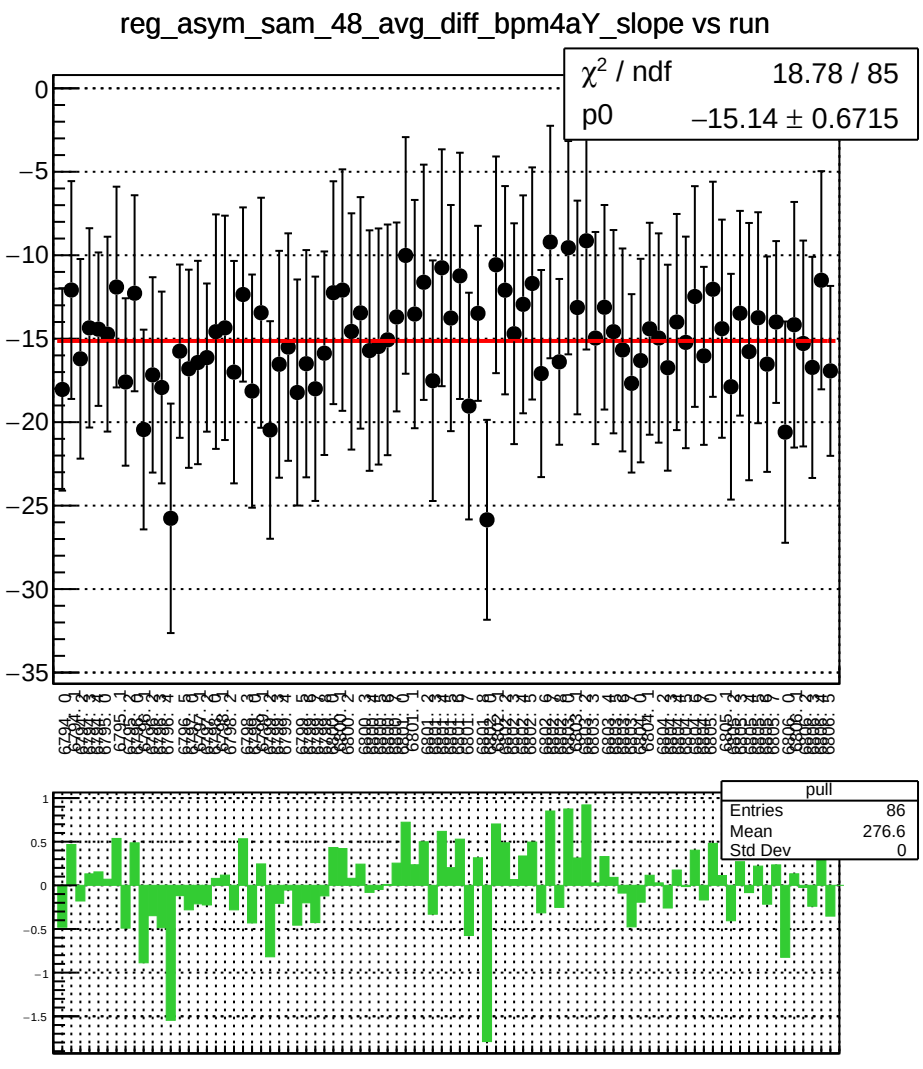

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.3 / 85
p0 −84.39 ± 2.072
pull
Entries 86
Mean −21.33
Std Dev 0

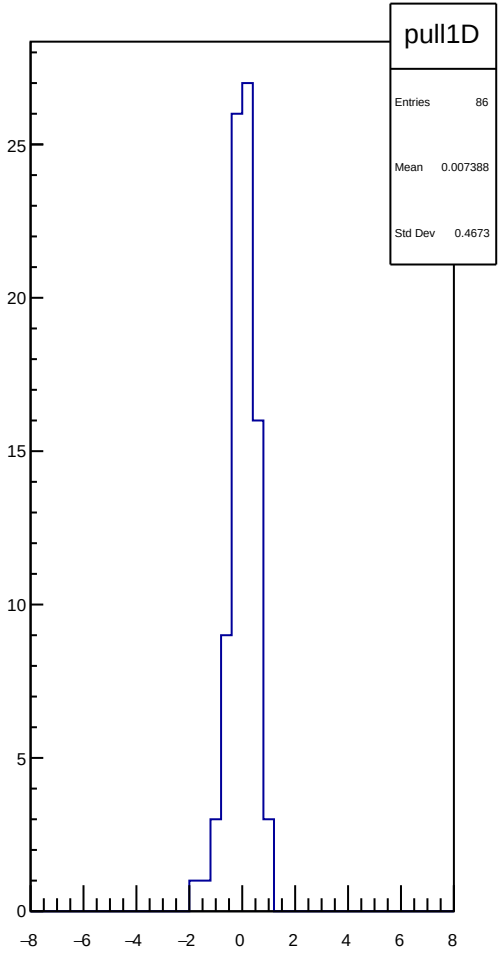

pull1D
Entries 86
Mean 0.02806
Std Dev 0.4209

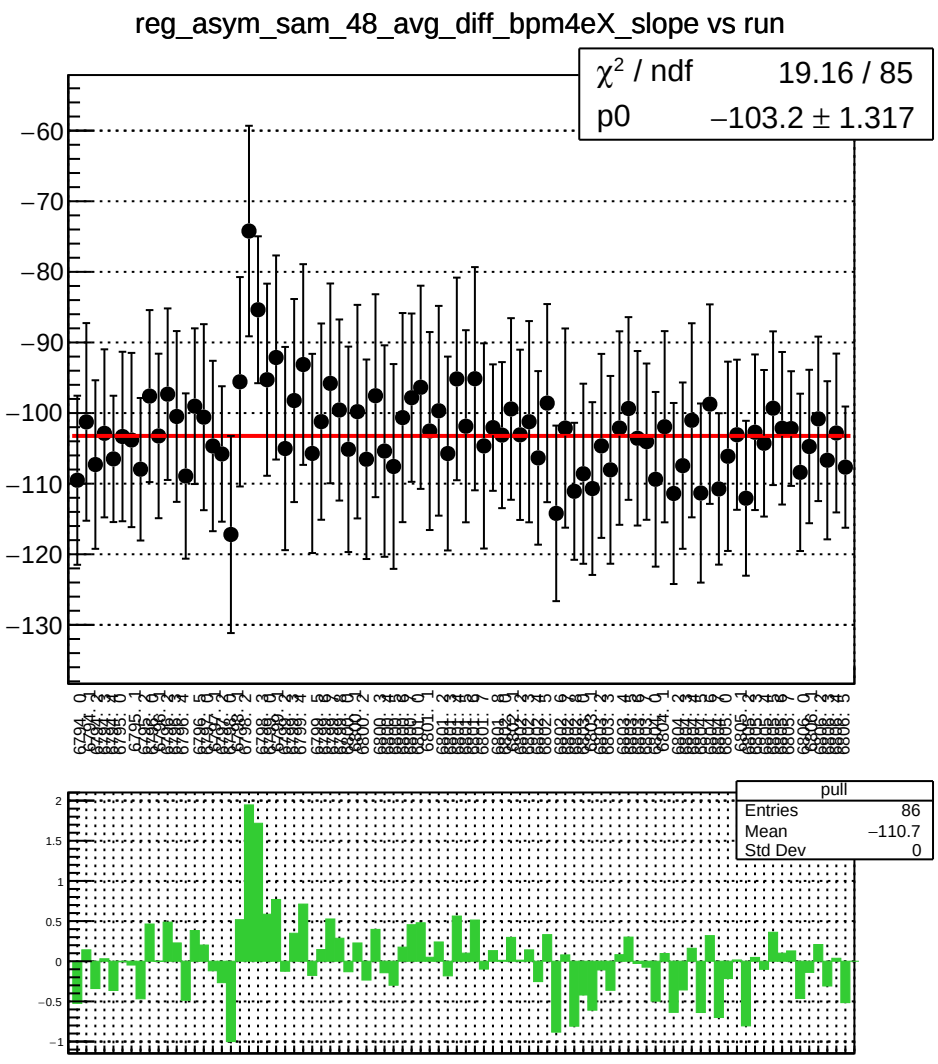

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.71 / 85
p0 −94.61 ± 1.462
pull
Entries 86
Mean 241.5
Std Dev 0
pull1D
Entries 86
Mean 0.02987
Std Dev 0.5352

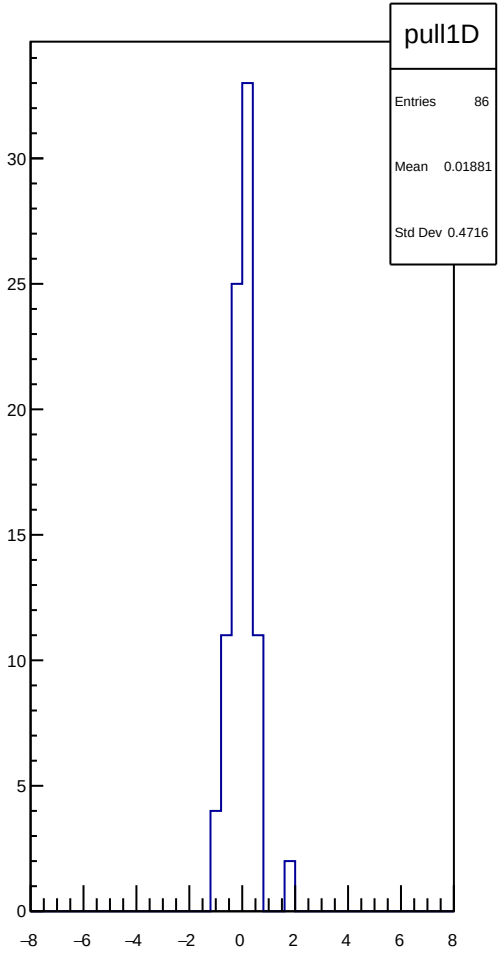

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 34.29 / 85
p0 0.7631± 0.08391
pull
Entries 86
Mean 780.4
Std Dev 0
pull1D
Entries 86
Mean 0.004939
Std Dev 0.6315

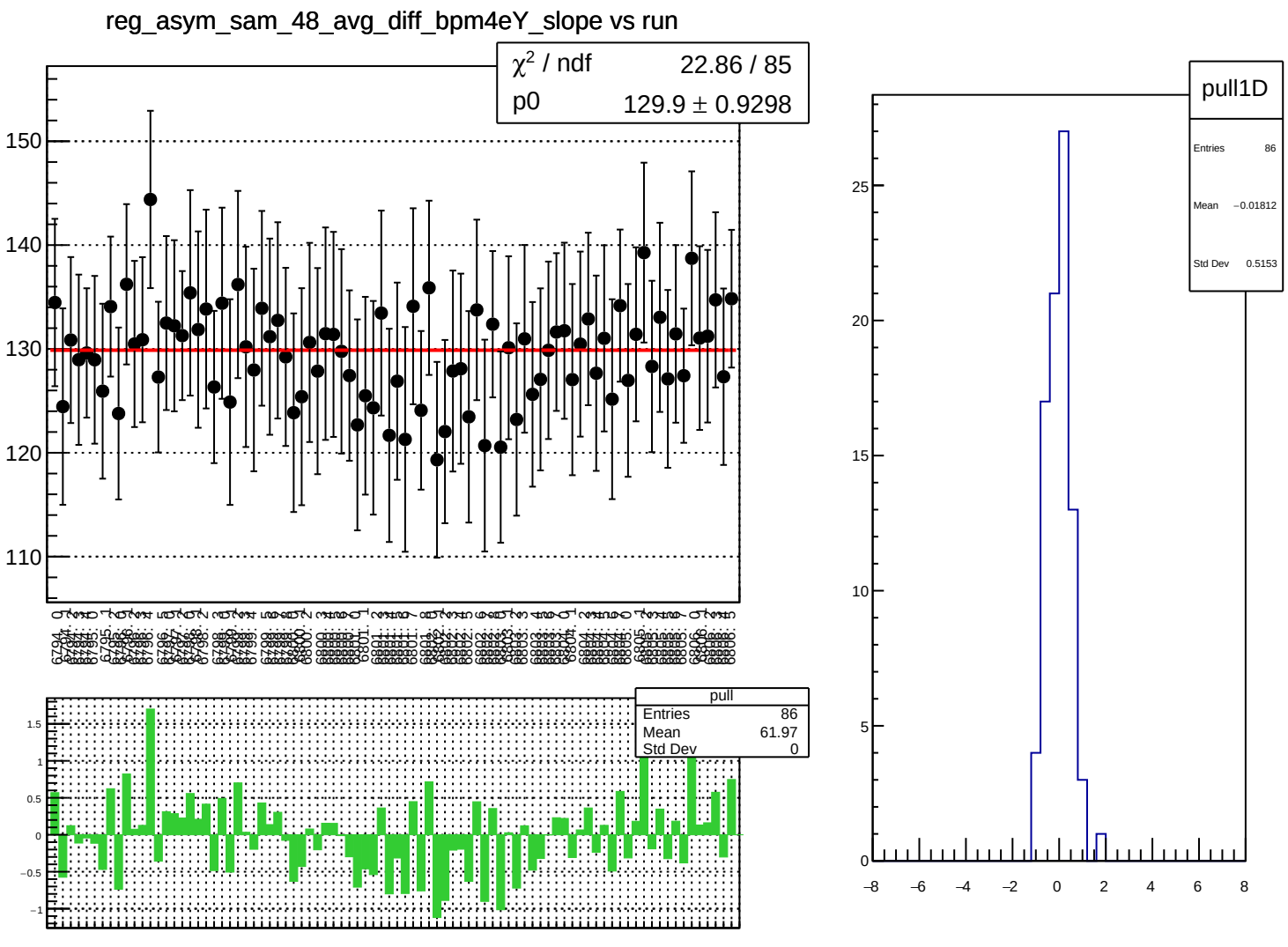

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 15.57 / 85
p0 −5.91 ± 1.407
pull
Entries 86
Mean −90.12
Std Dev 0
pull1D
Entries 86
Mean −0.02102
Std Dev 0.425

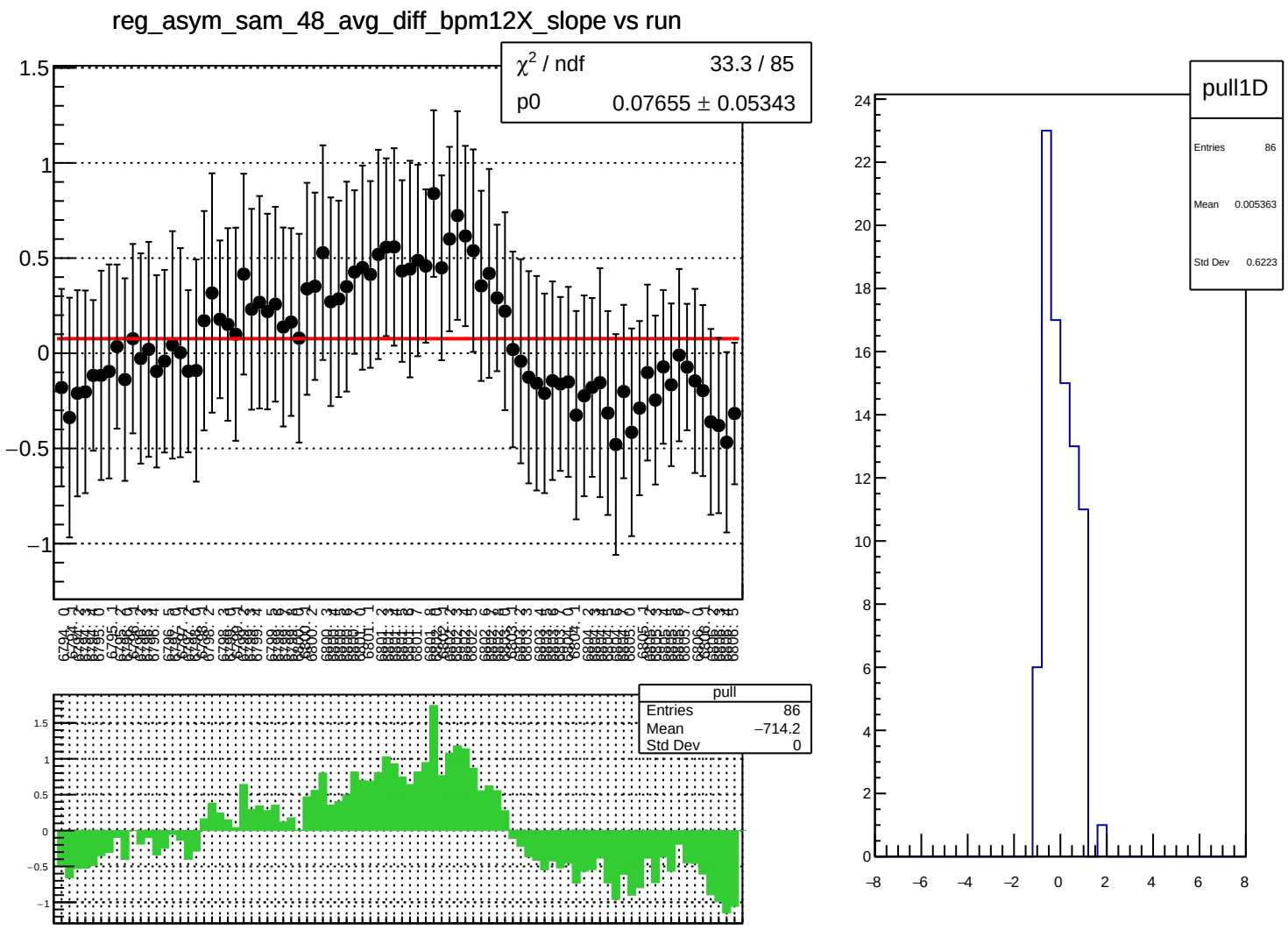

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.78 / 85
p0 −15.14 ± 0.6715
pull
Entries 86
Mean 276.6
Std Dev 0

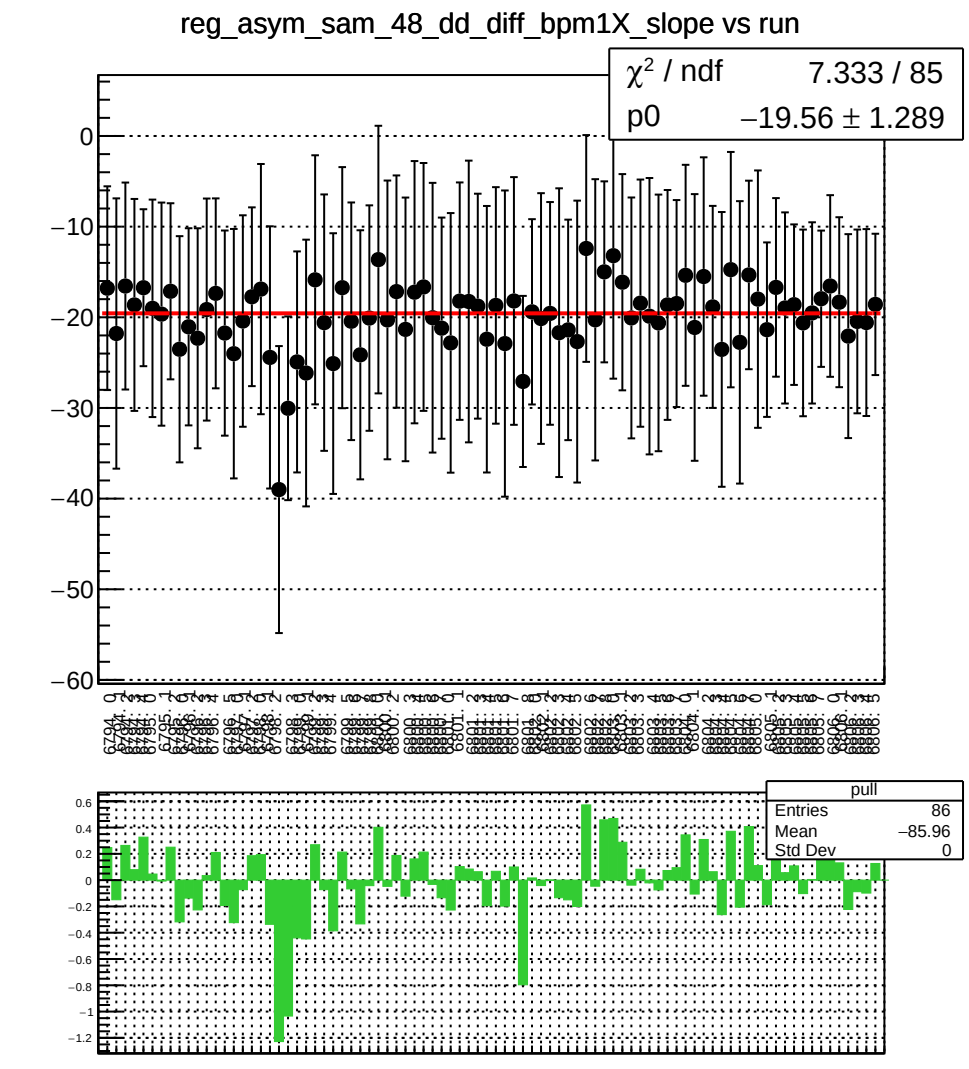

pull1D
Entries 86
Mean 0.007388
Std Dev 0.4673

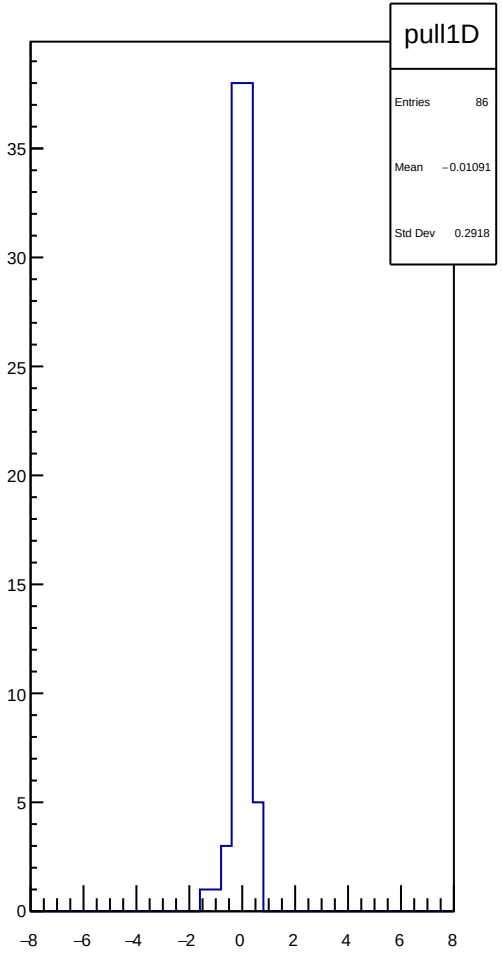

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.16 / 85
p0 −103.2 ± 1.317
pull
Entries 86
Mean −110.7
Std Dev 0

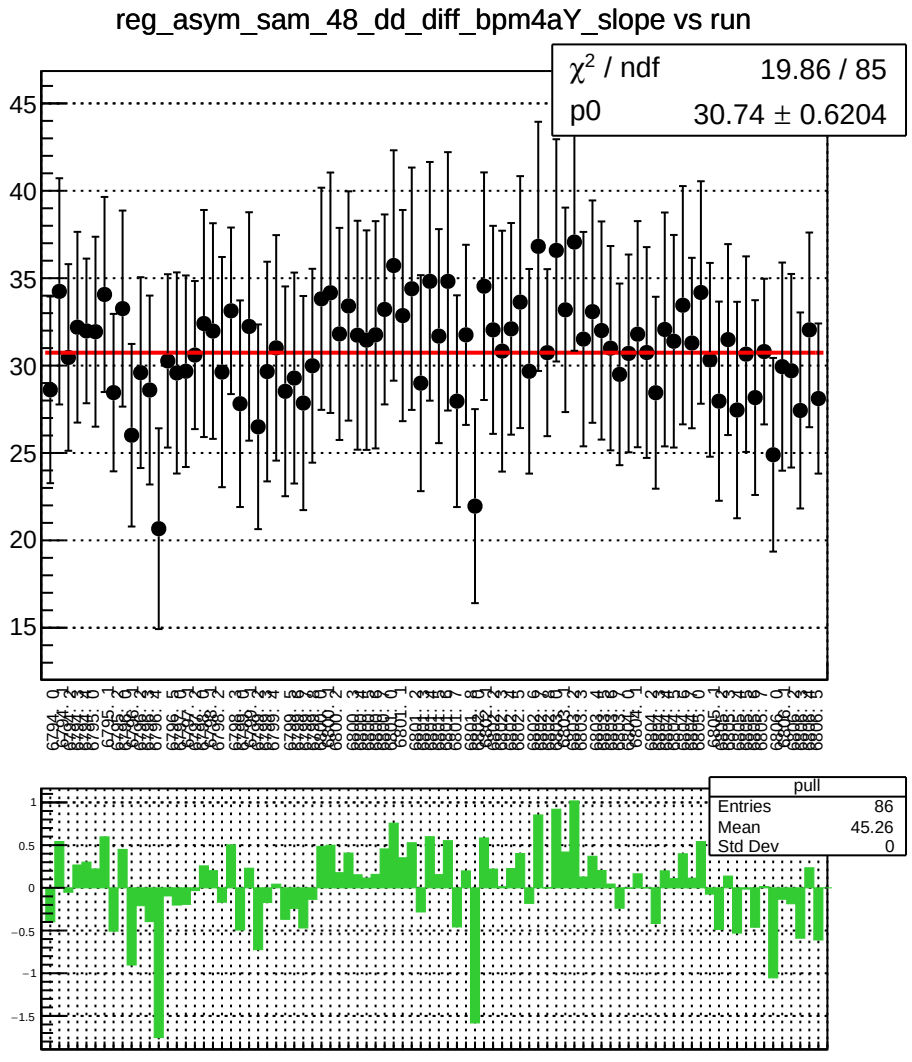

pull1D
Entries 86
Mean 0.01881
Std Dev 0.4716

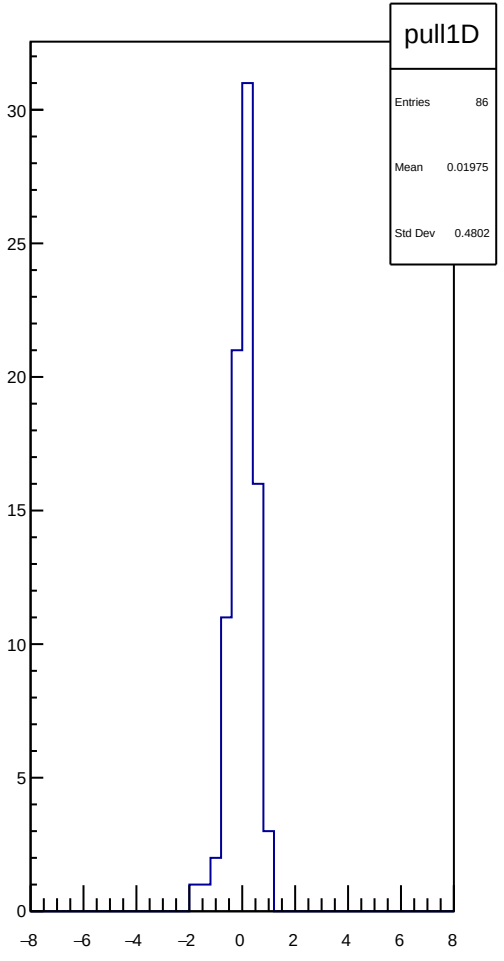

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.86 / 85
p0 129.9 ± 0.9298
150
140
130
120
110
pull
Entries 86
Mean 61.97
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.01812
Std Dev 0.5153
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

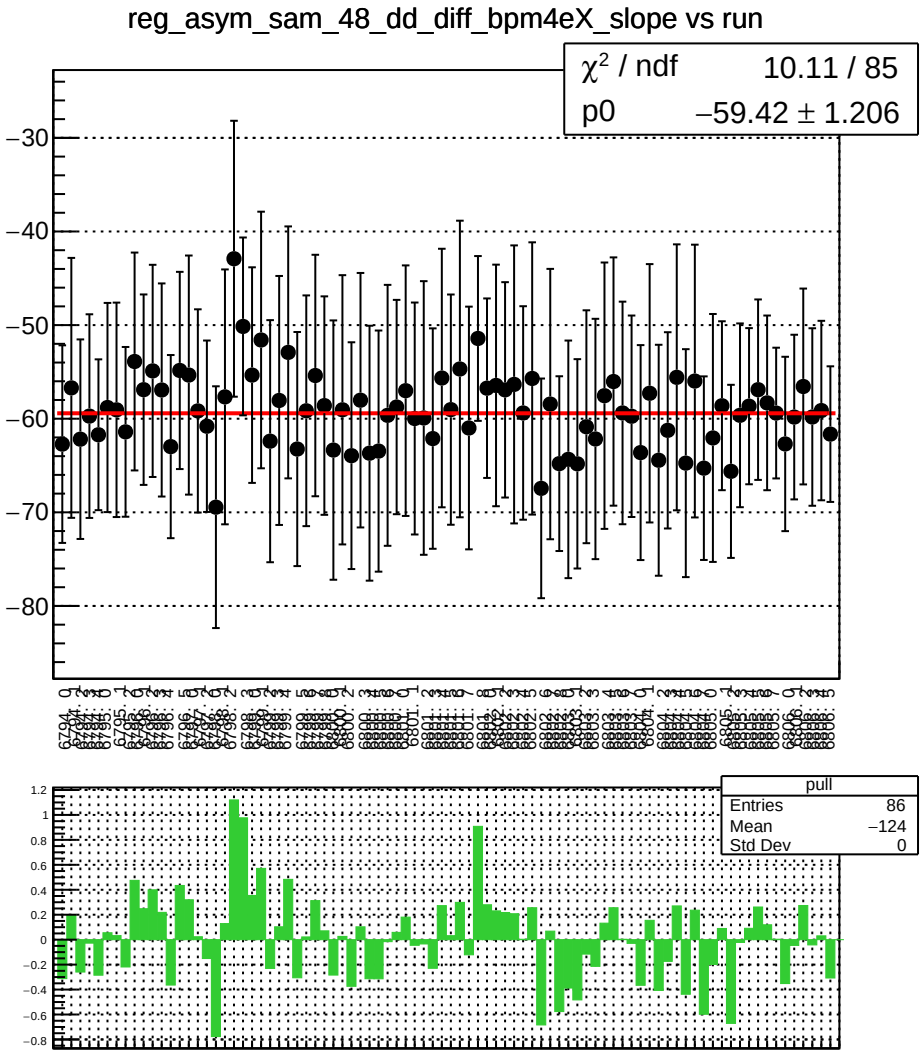

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 33.3 / 85
p0 0.07655 ± 0.05343
pull
Entries 86
Mean −714.2
Std Dev 0
pull1D
Entries 86
Mean 0.005363
Std Dev 0.6223

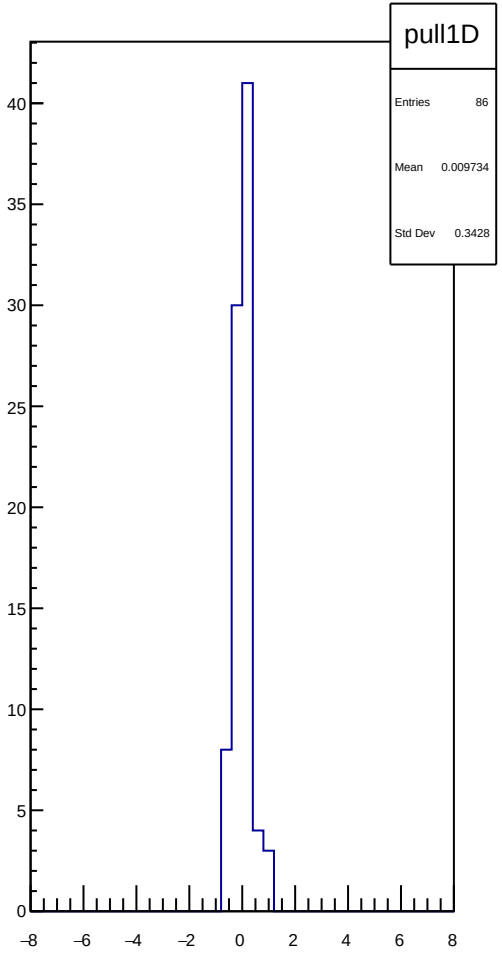

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 7.333 / 85
p0 −19.56 ± 1.289
pull
Entries 86
Mean −85.96
Std Dev 0

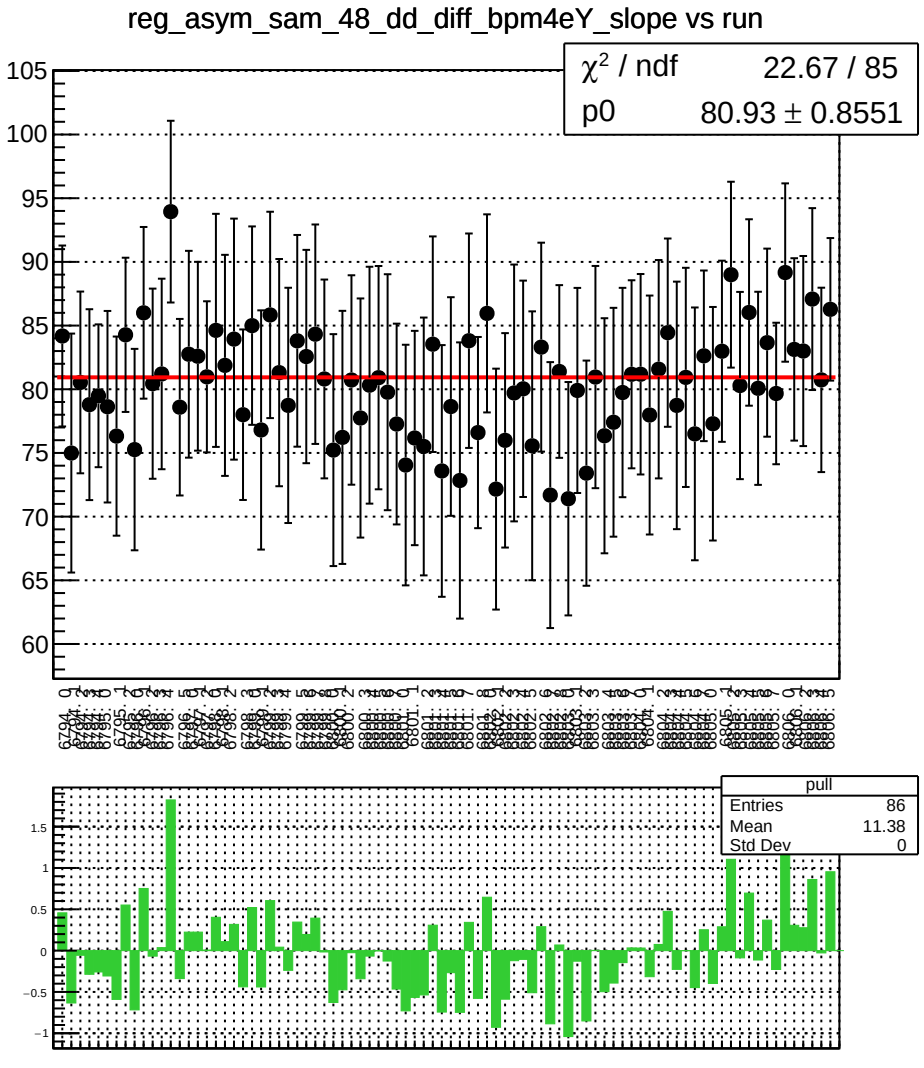

pull1D
Entries 86
Mean −0.01091
Std Dev 0.2918

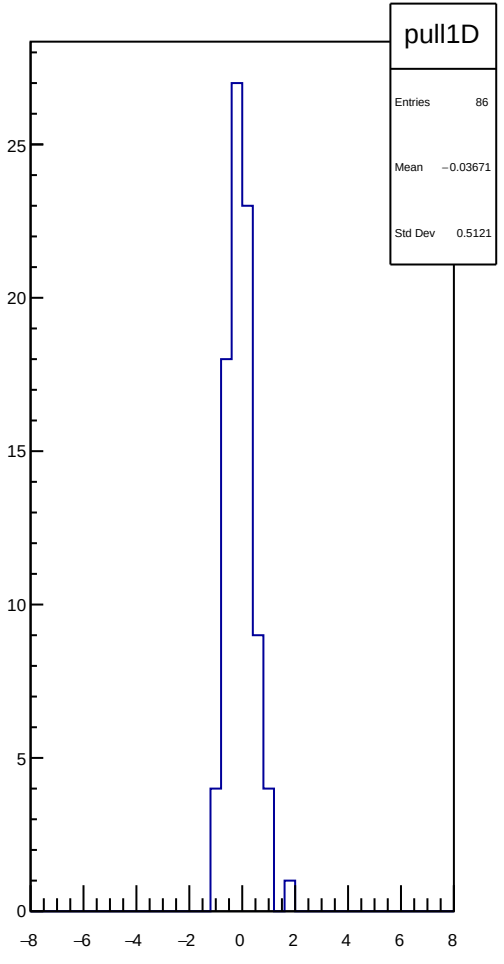

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.86 / 85
p0 30.74 ± 0.6204
pull
Entries 86
Mean 45.26
Std Dev 0

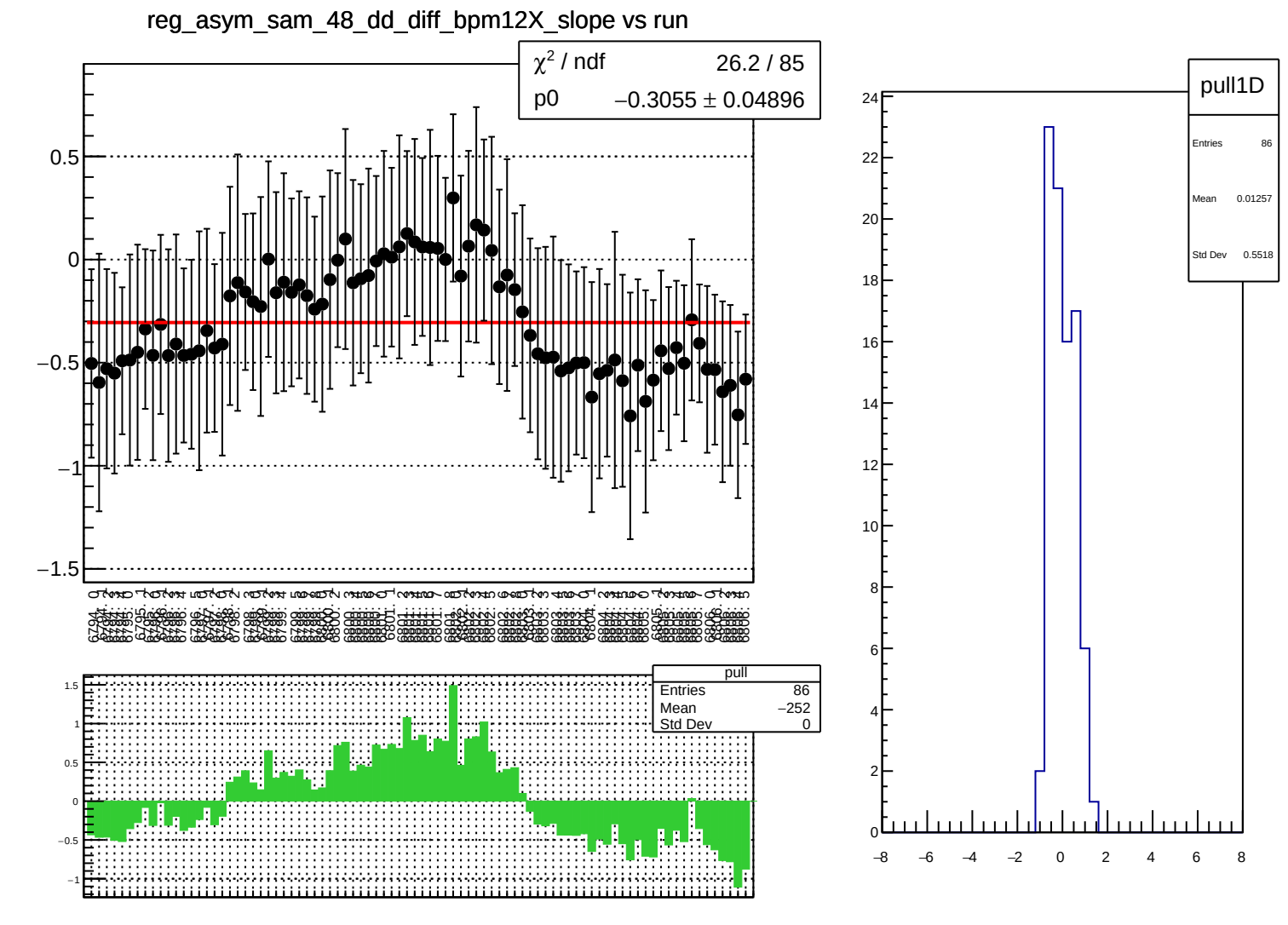

pull1D
Entries 86
Mean 0.01975
Std Dev 0.4802

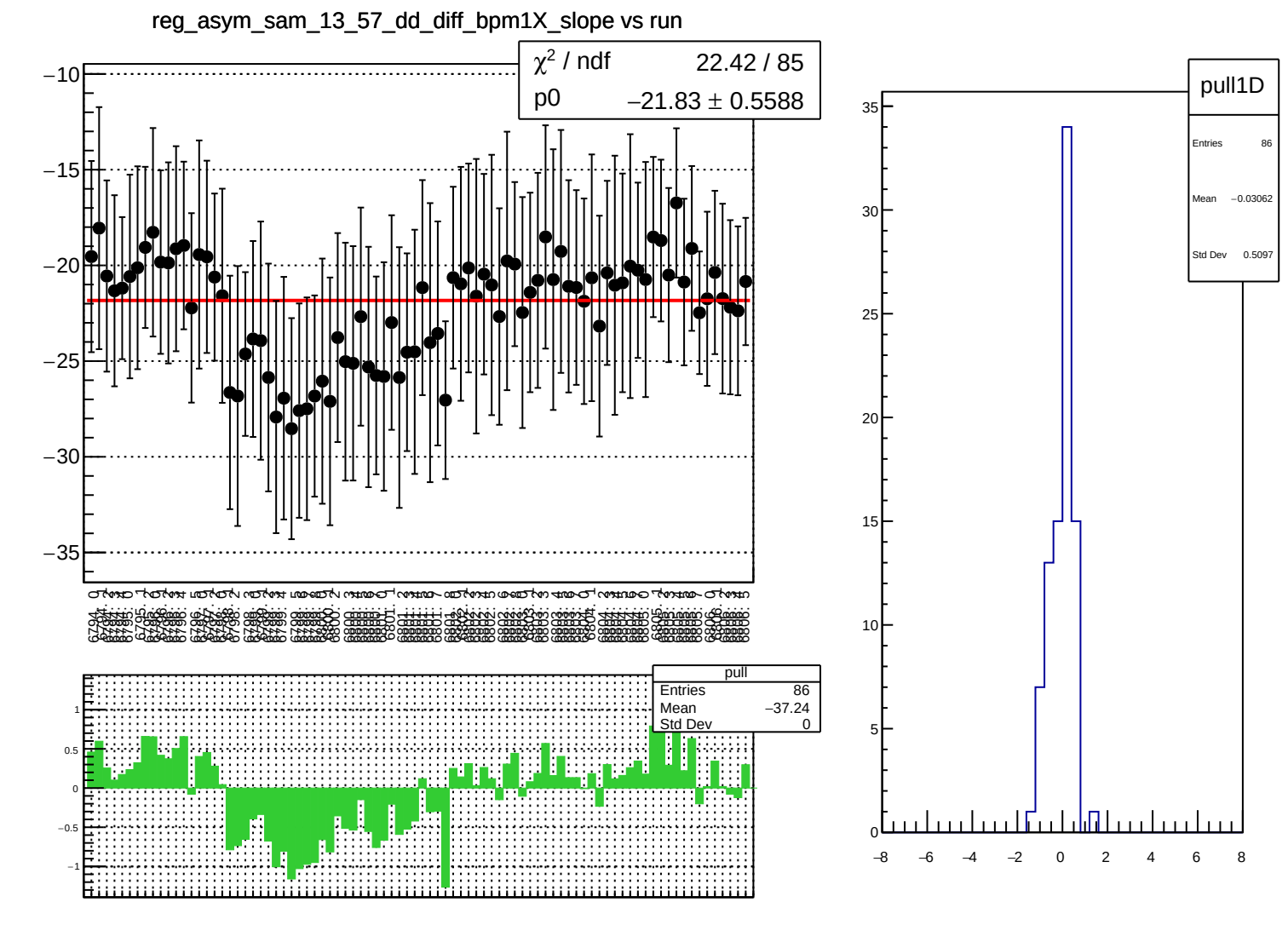

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.11 / 85
p0 −59.42 ± 1.206
pull
Entries 86
Mean −124
Std Dev 0

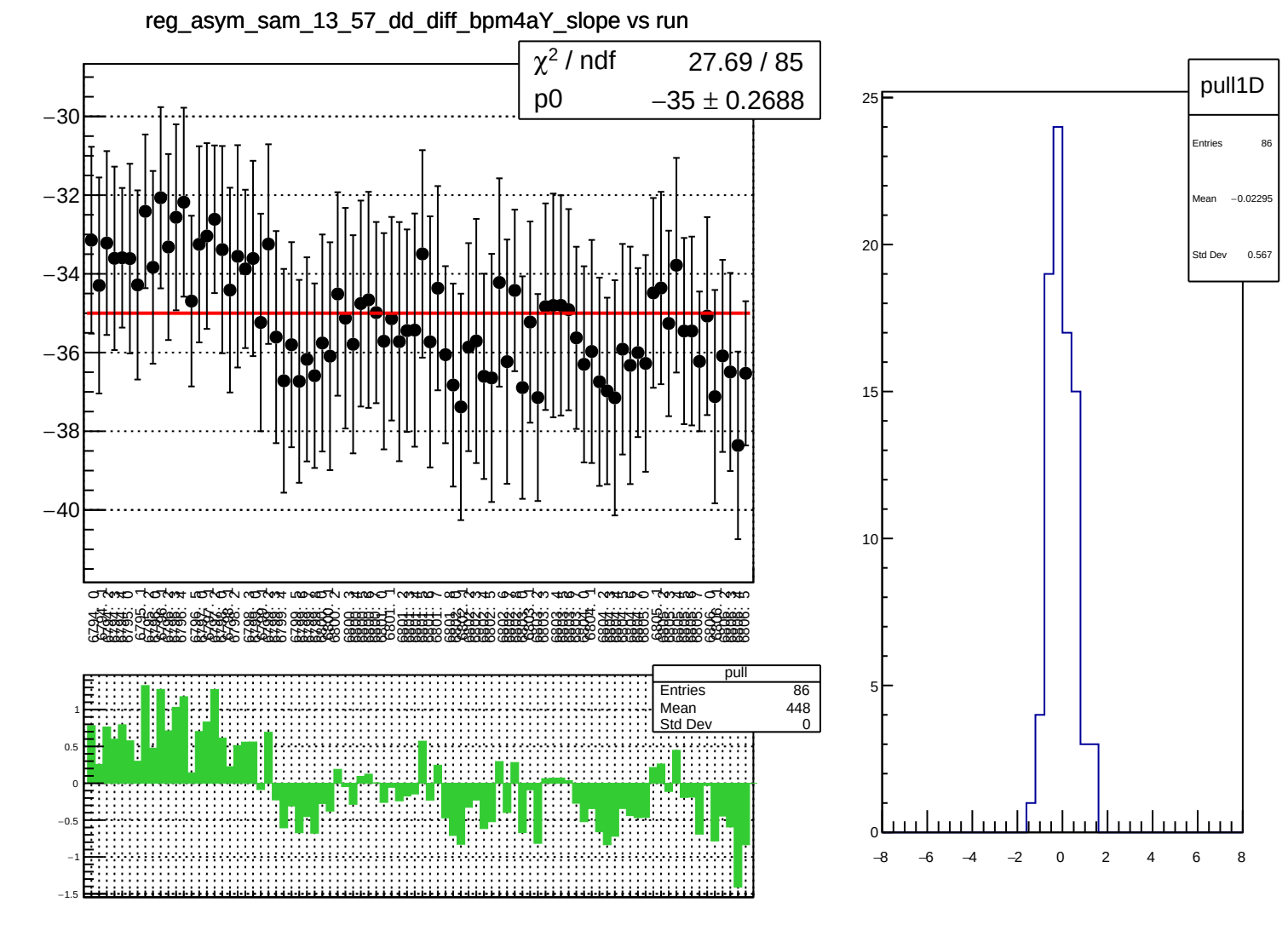

pull1D
Entries 86
Mean 0.009734
Std Dev 0.3428

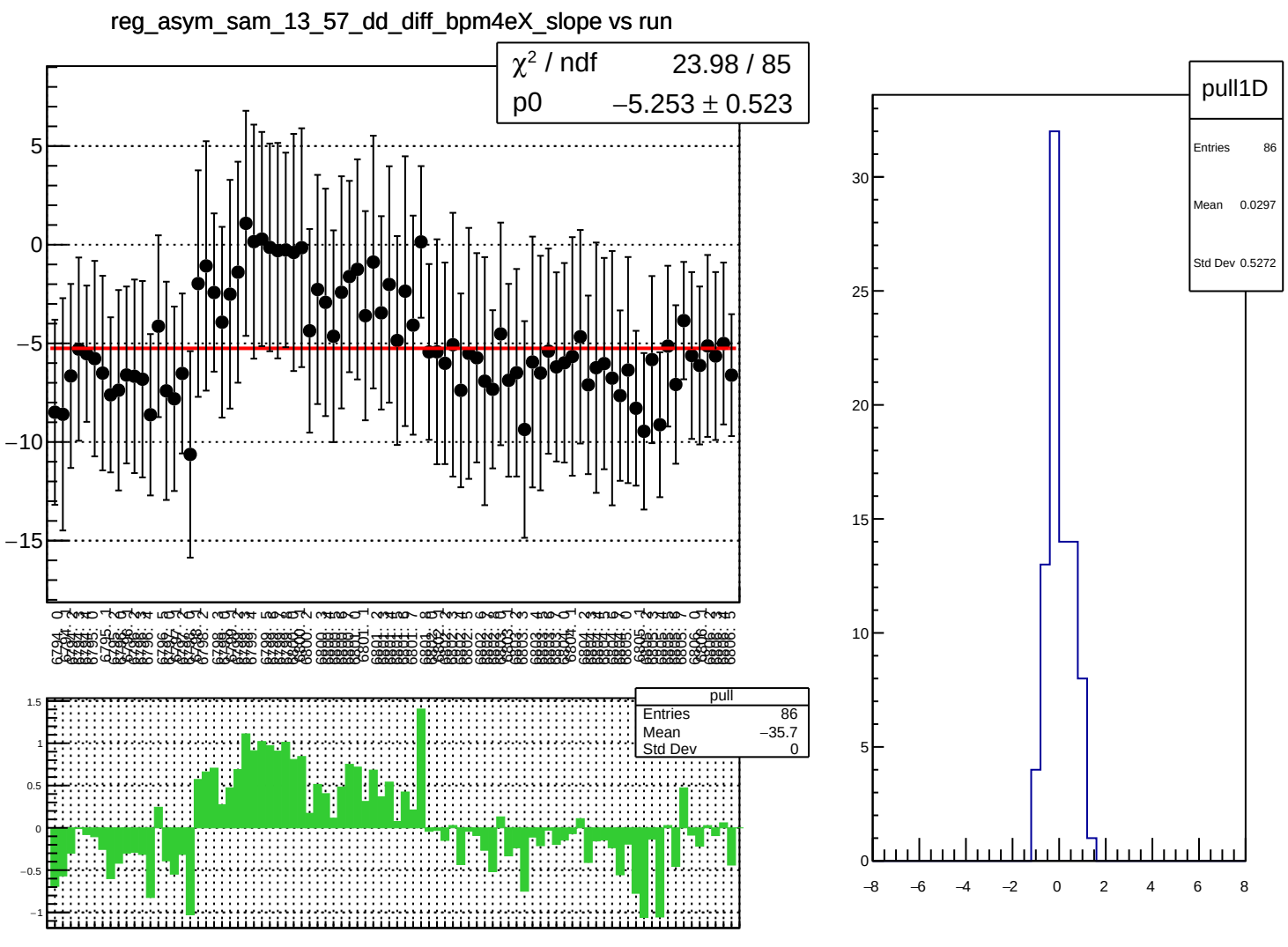

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.67 / 85
p0 80.93 ± 0.8551
pull
Entries 86
Mean 11.38
Std Dev 0

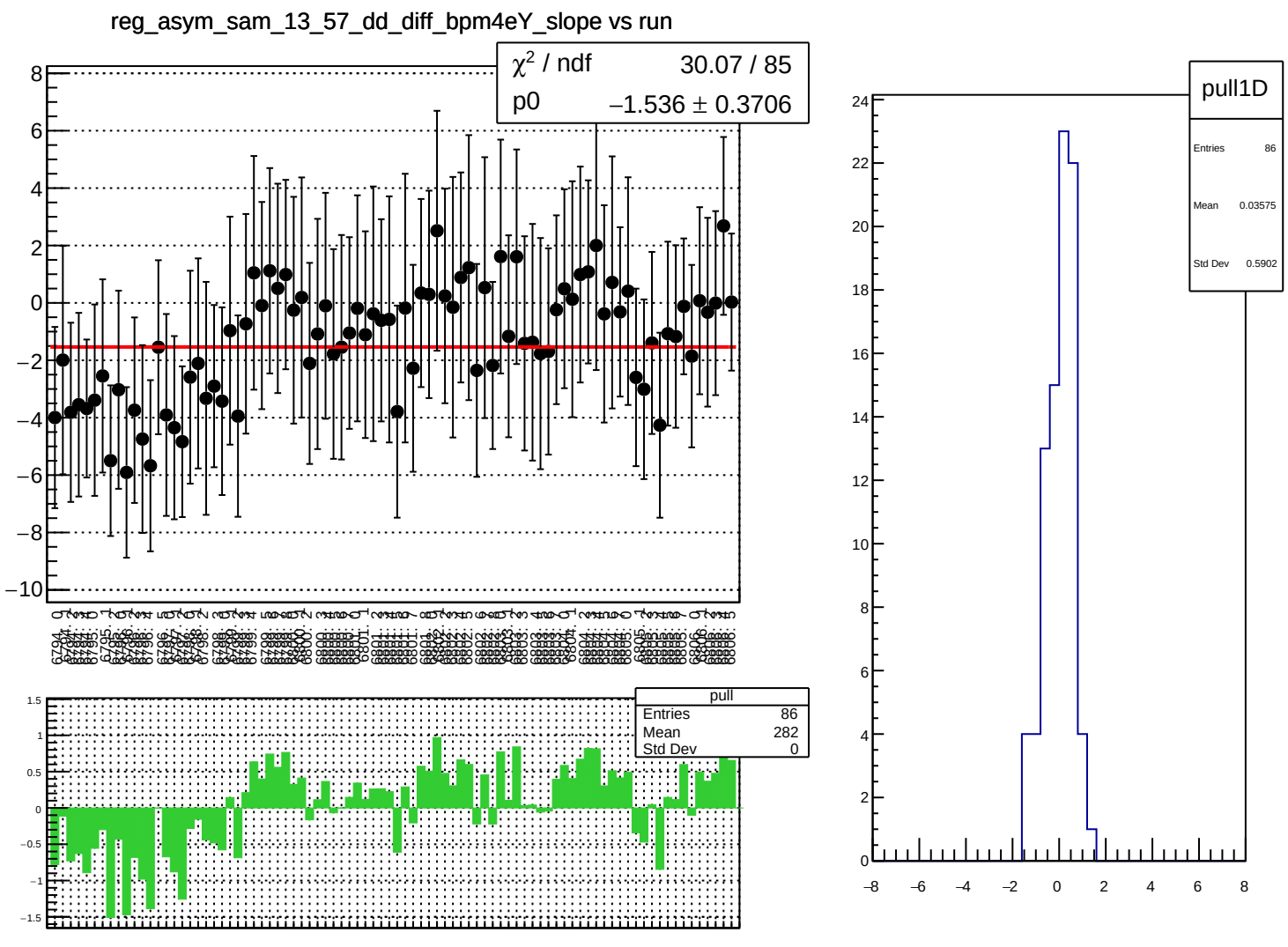

pull1D
Entries 86
Mean −0.03671
Std Dev 0.5121

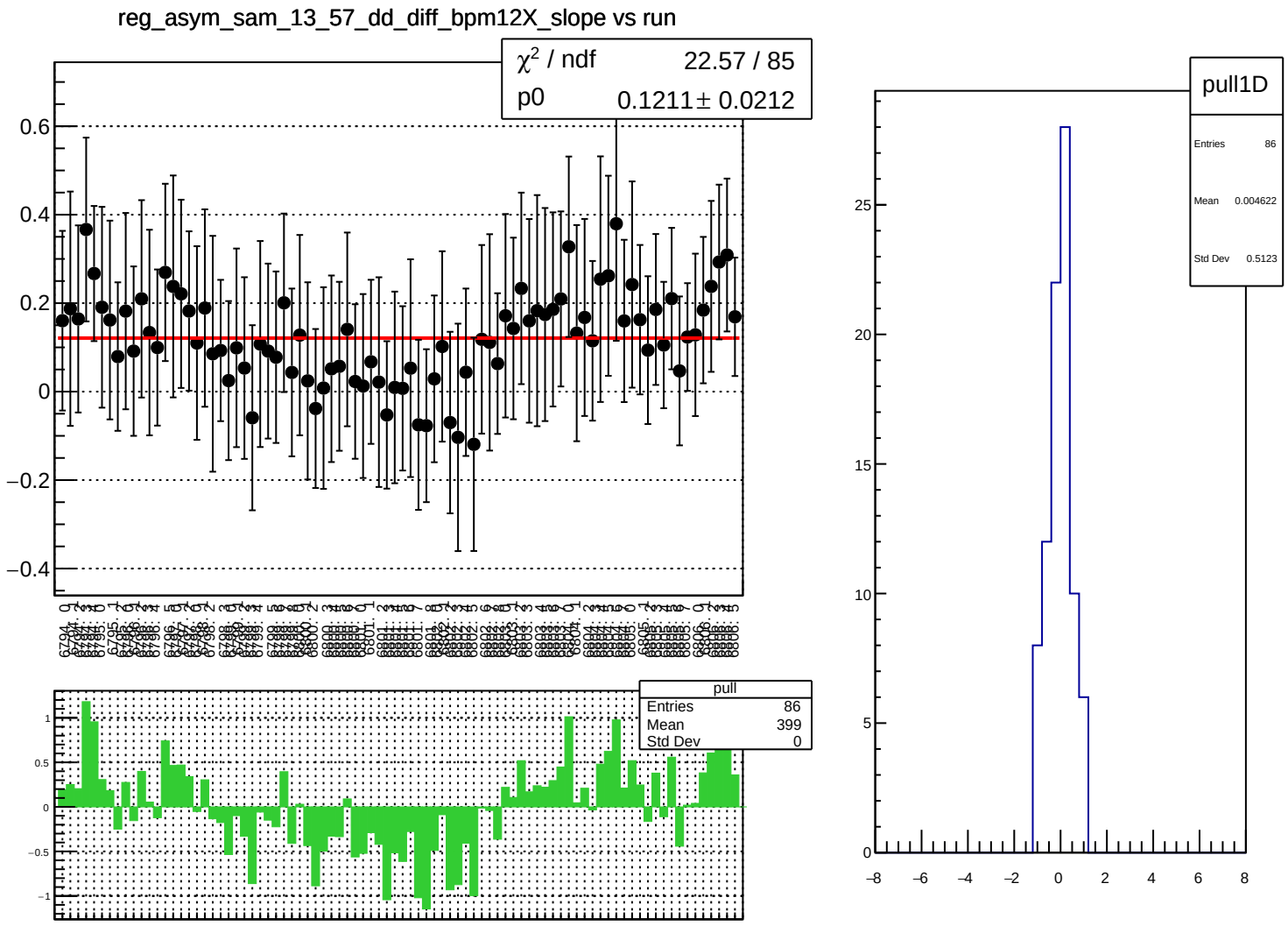

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 26.2 / 85
p0 −0.3055 ± 0.04896
pull
Entries 86
Mean −252
Std Dev 0
pull1D
Entries 86
Mean 0.01257
Std Dev 0.5518

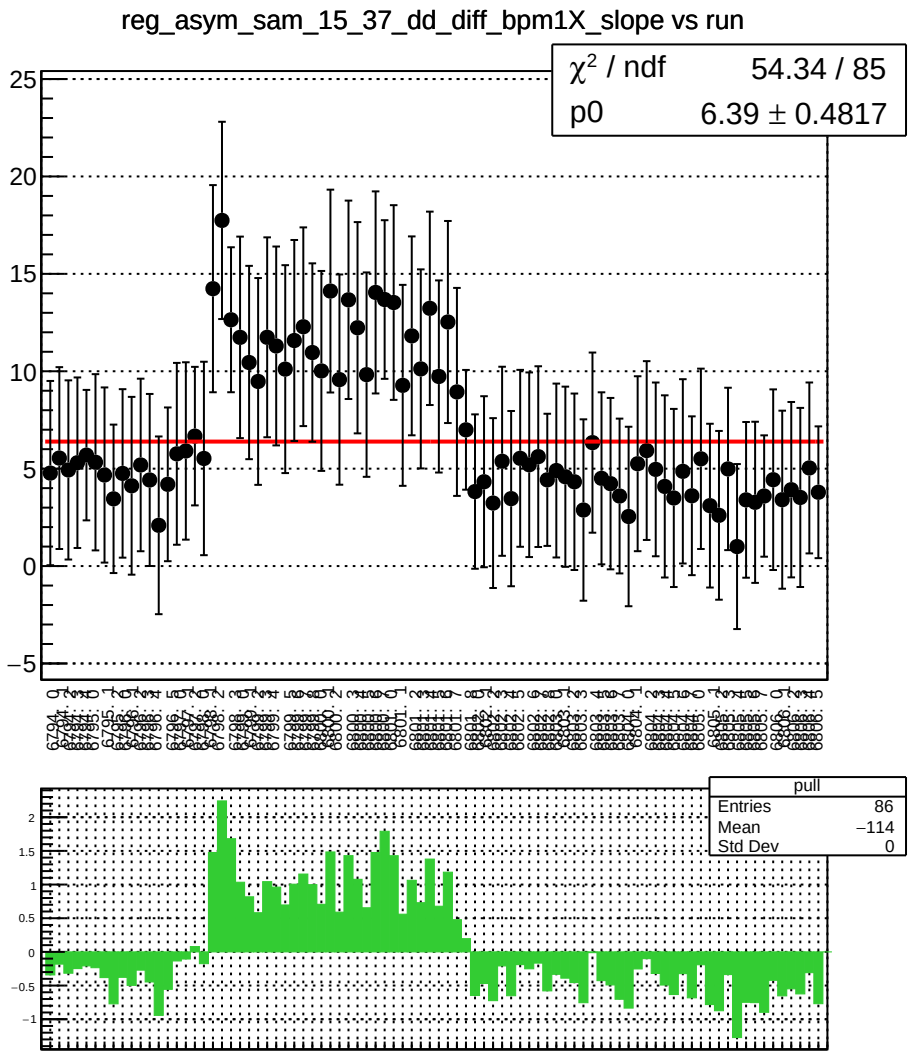

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 22.42 / 85
p0 −21.83 ± 0.5588
pull
Entries 86
Mean −37.24
Std Dev 0
pull1D
Entries 86
Mean −0.03062
Std Dev 0.5097

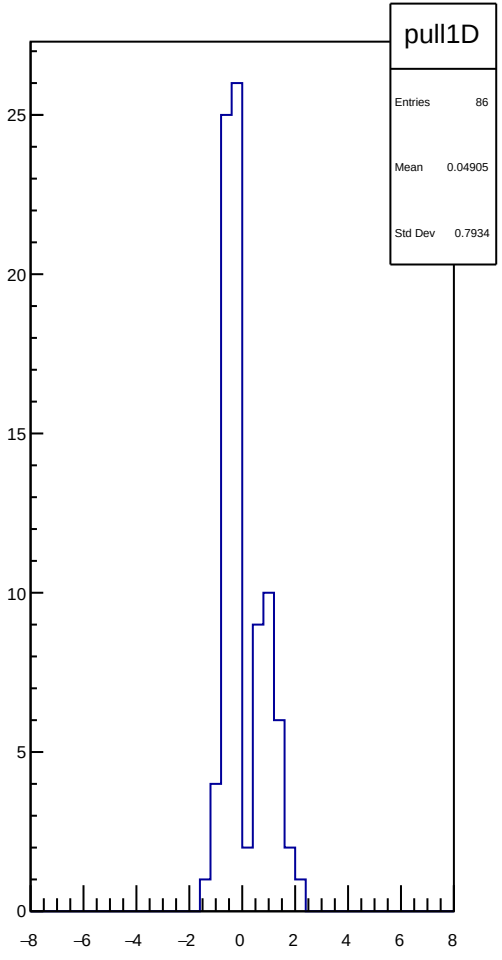

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.69 / 85
p0 −35 ± 0.2688
pull
Entries 86
Mean 448
Std Dev 0
pull1D
Entries 86
Mean −0.02295
Std Dev 0.567

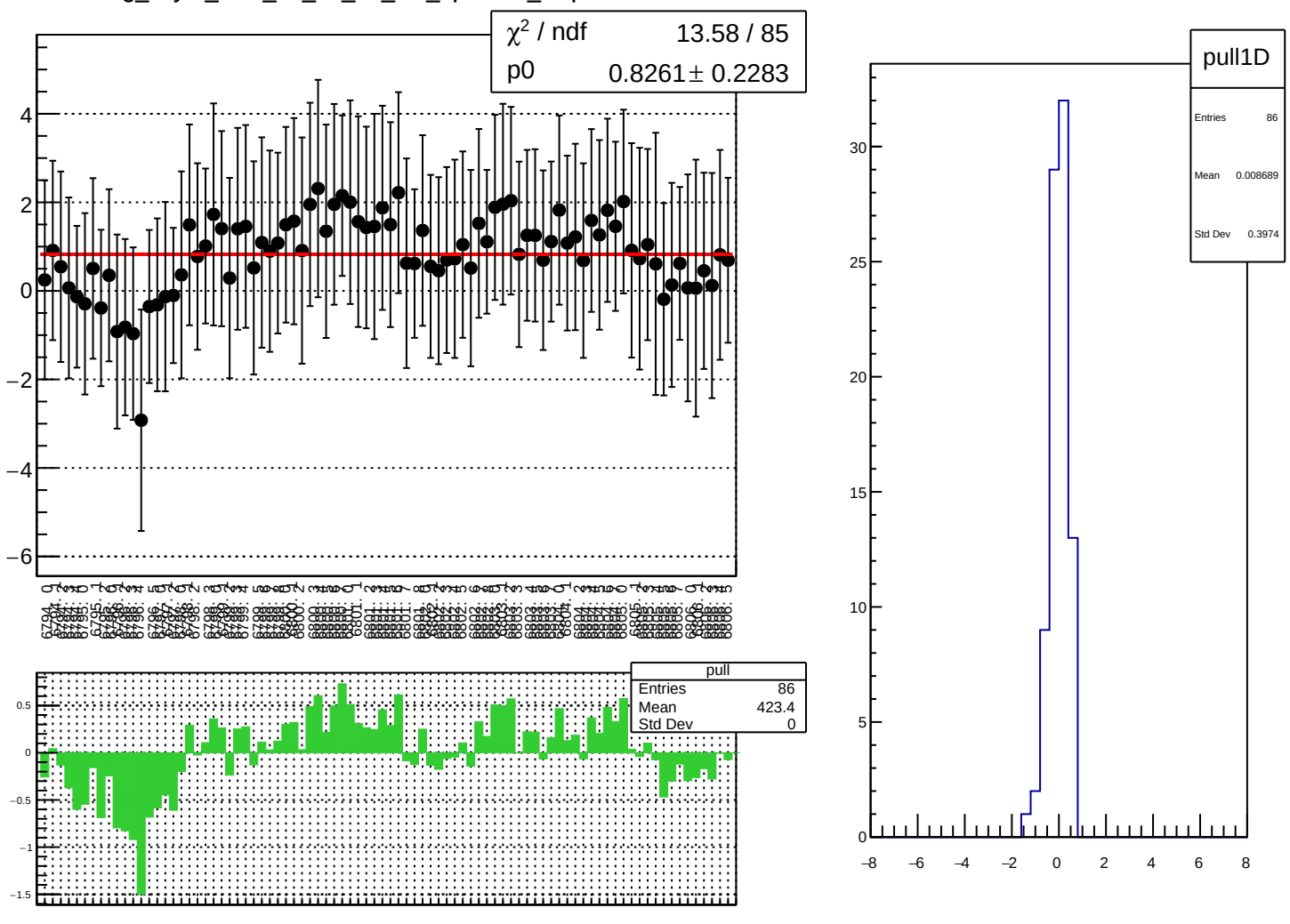

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.98 / 85
p0 −5.253 ± 0.523
pull
Entries 86
Mean −35.7
Std Dev 0
pull1D
Entries 86
Mean 0.0297
Std Dev 0.5272

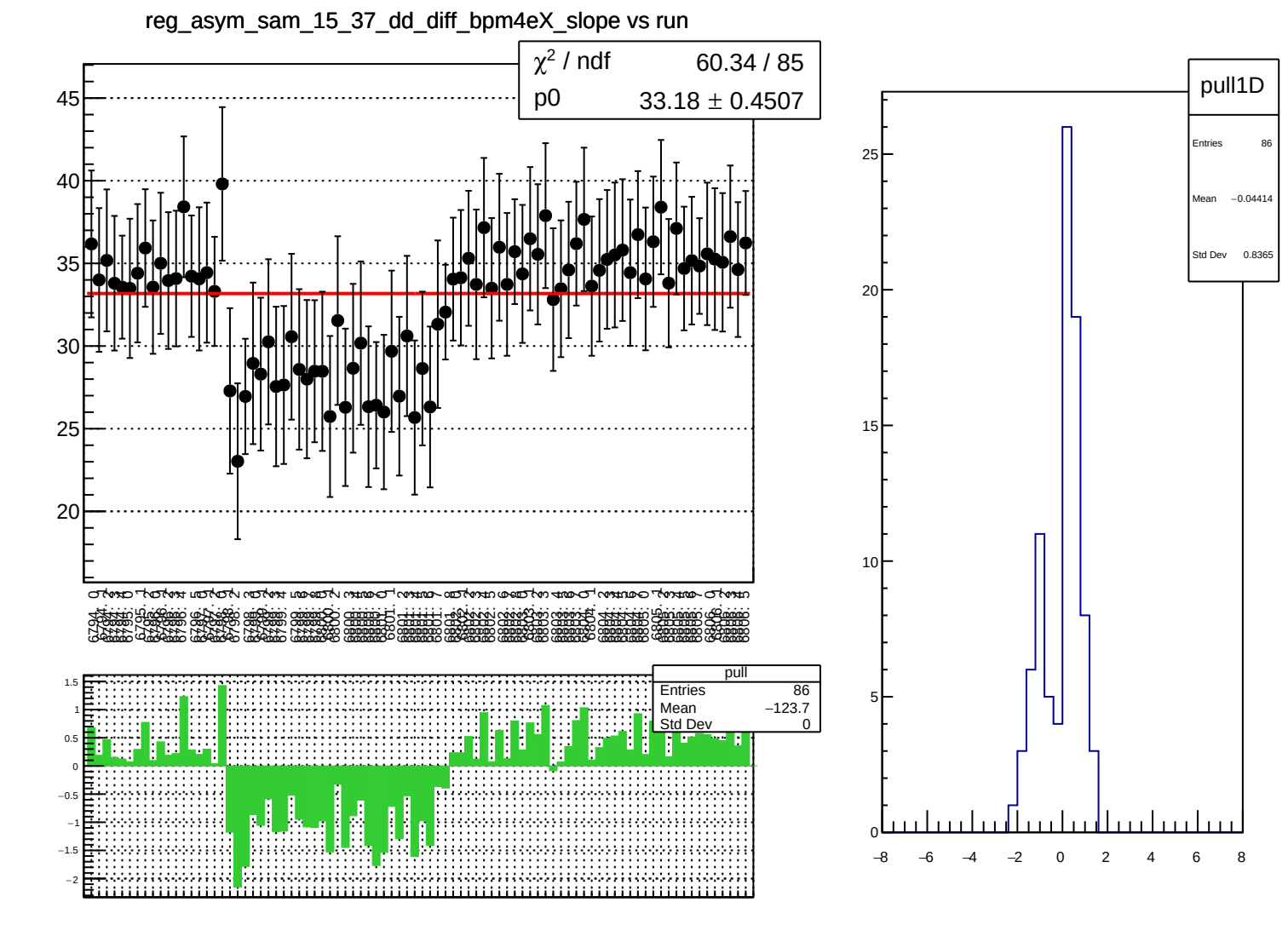

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.07 / 85
p0 −1.536 ± 0.3706
pull
Entries 86
Mean 282
Std Dev 0
pull1D
Entries 86
Mean 0.03575
Std Dev 0.5902

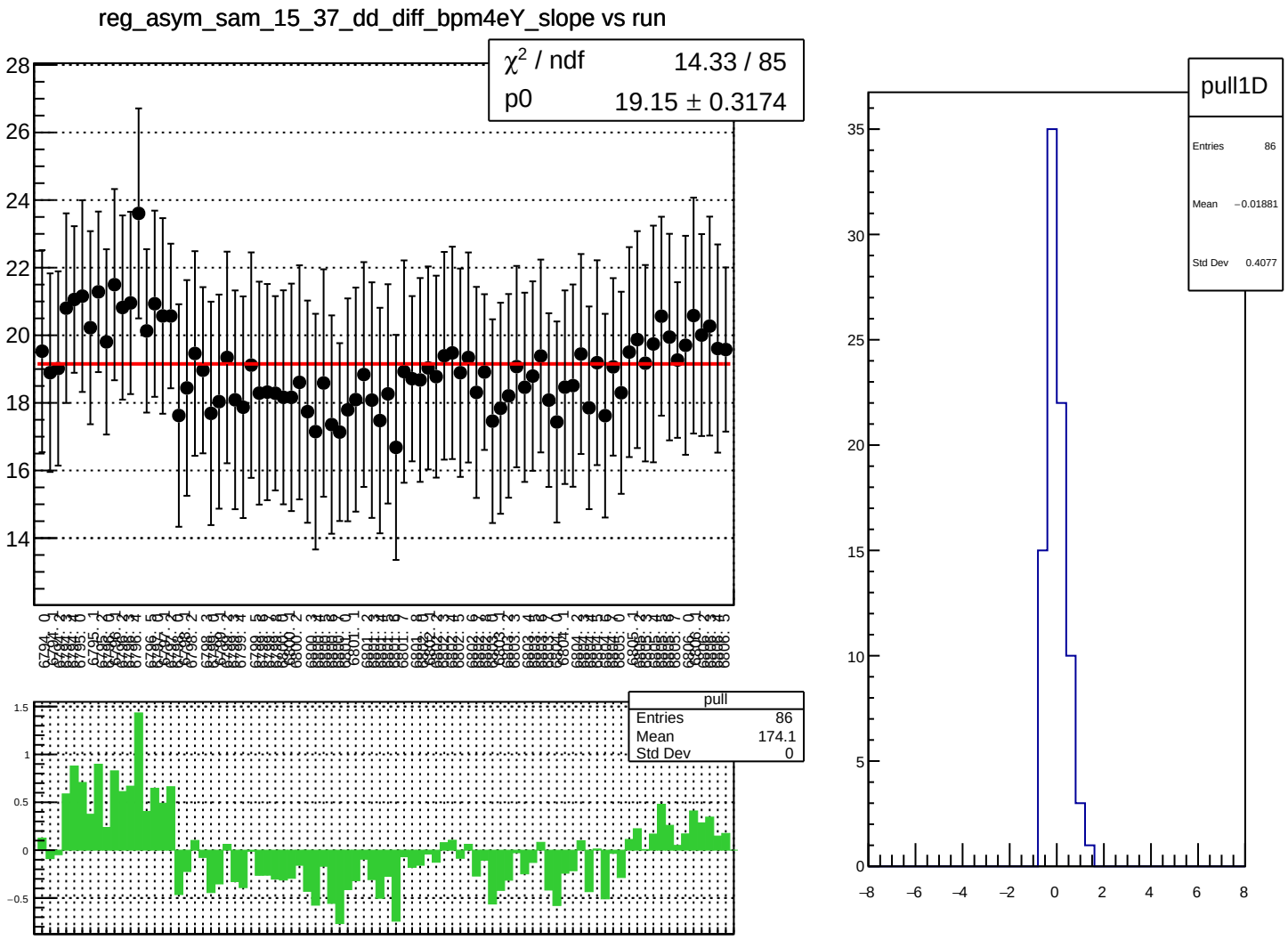

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 22.57 / 85
p0 0.1211 ± 0.0212
pull
Entries 86
Mean 399
Std Dev 0
pull1D
Entries 86
Mean 0.004622
Std Dev 0.5123

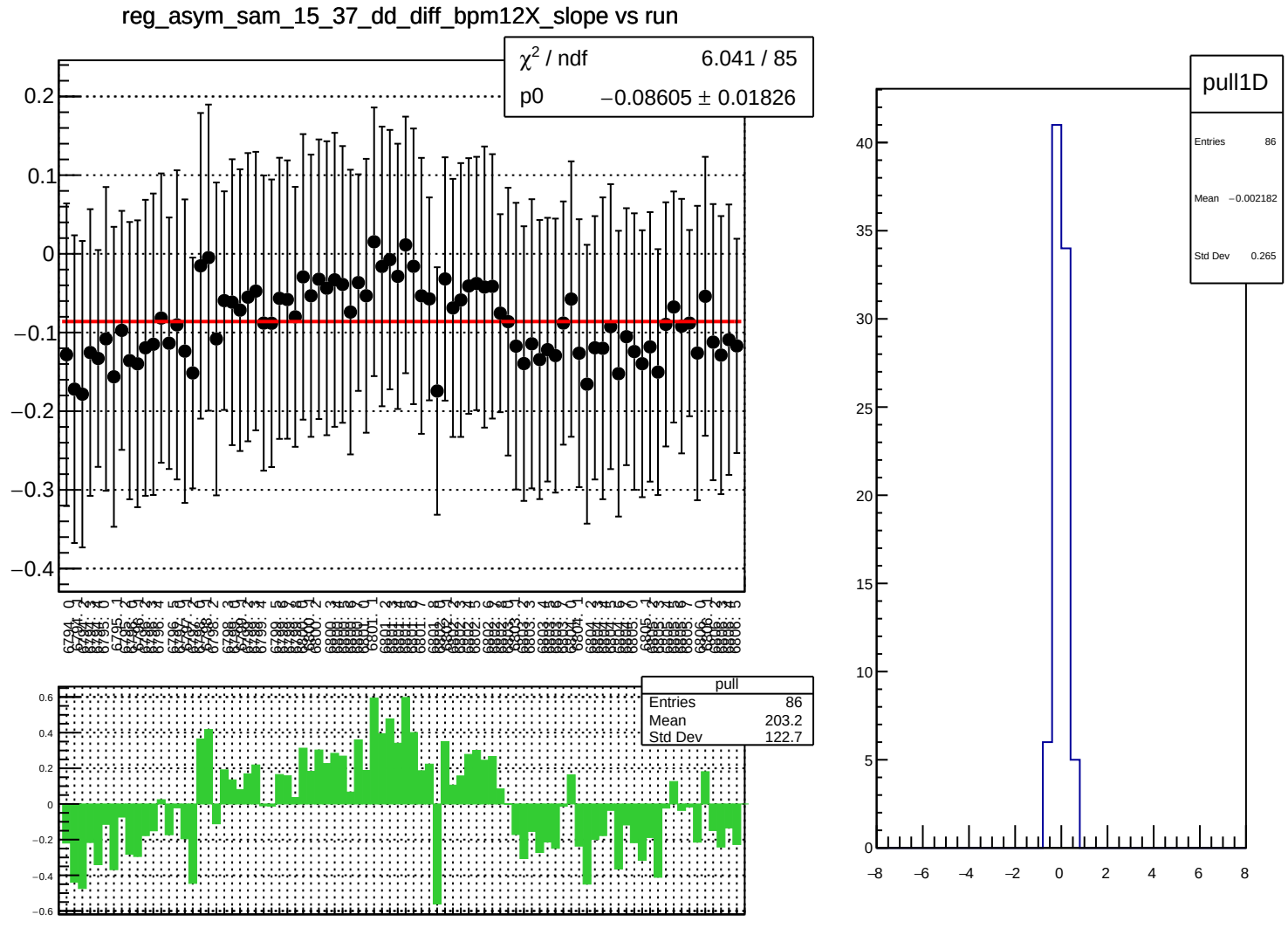

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 54.34 / 85
p0 6.39 ± 0.4817
pull
Entries 86
Mean −114
Std Dev 0

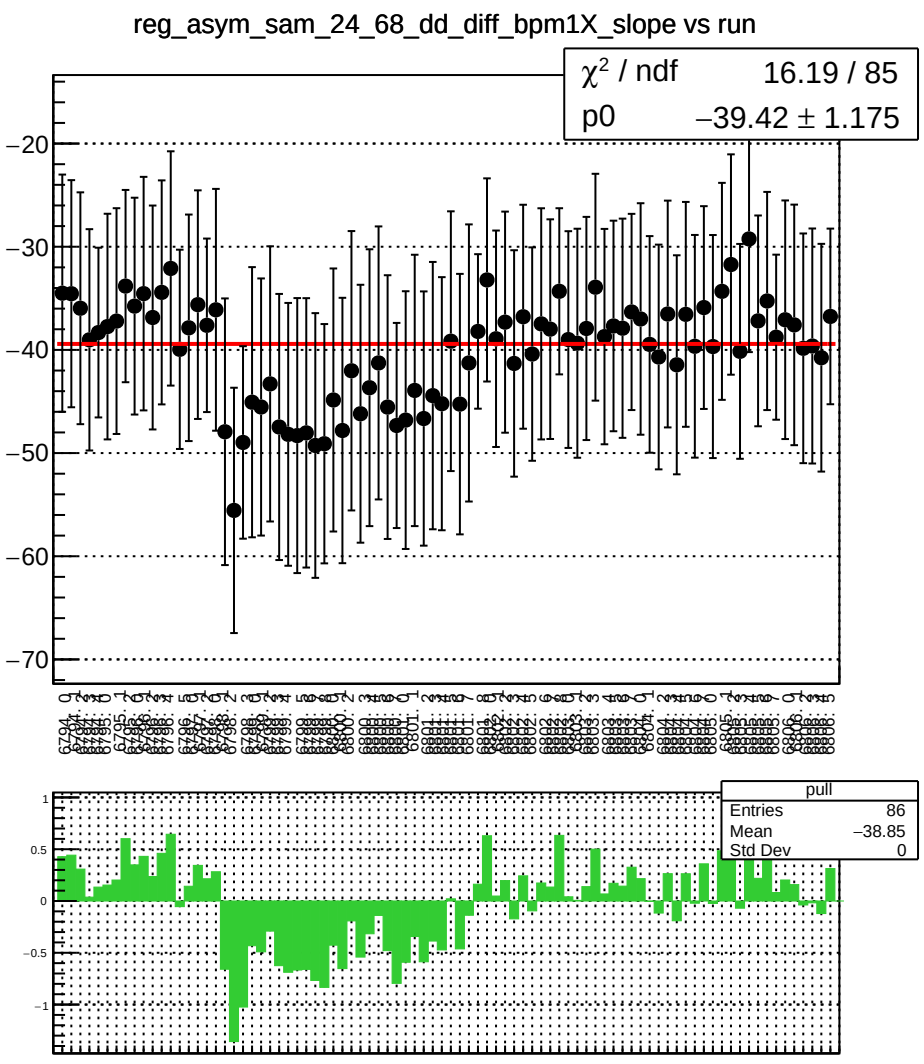

pull1D
Entries 86
Mean 0.04905
Std Dev 0.7934

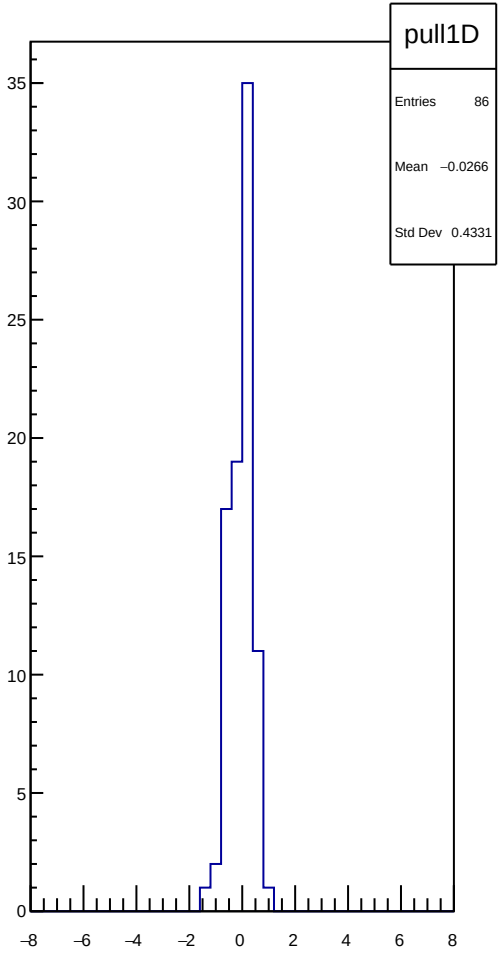

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.58 / 85
p0 0.8261 ± 0.2283
pull
Entries 86
Mean 423.4
Std Dev 0
pull1D
Entries 86
Mean 0.008689
Std Dev 0.3974

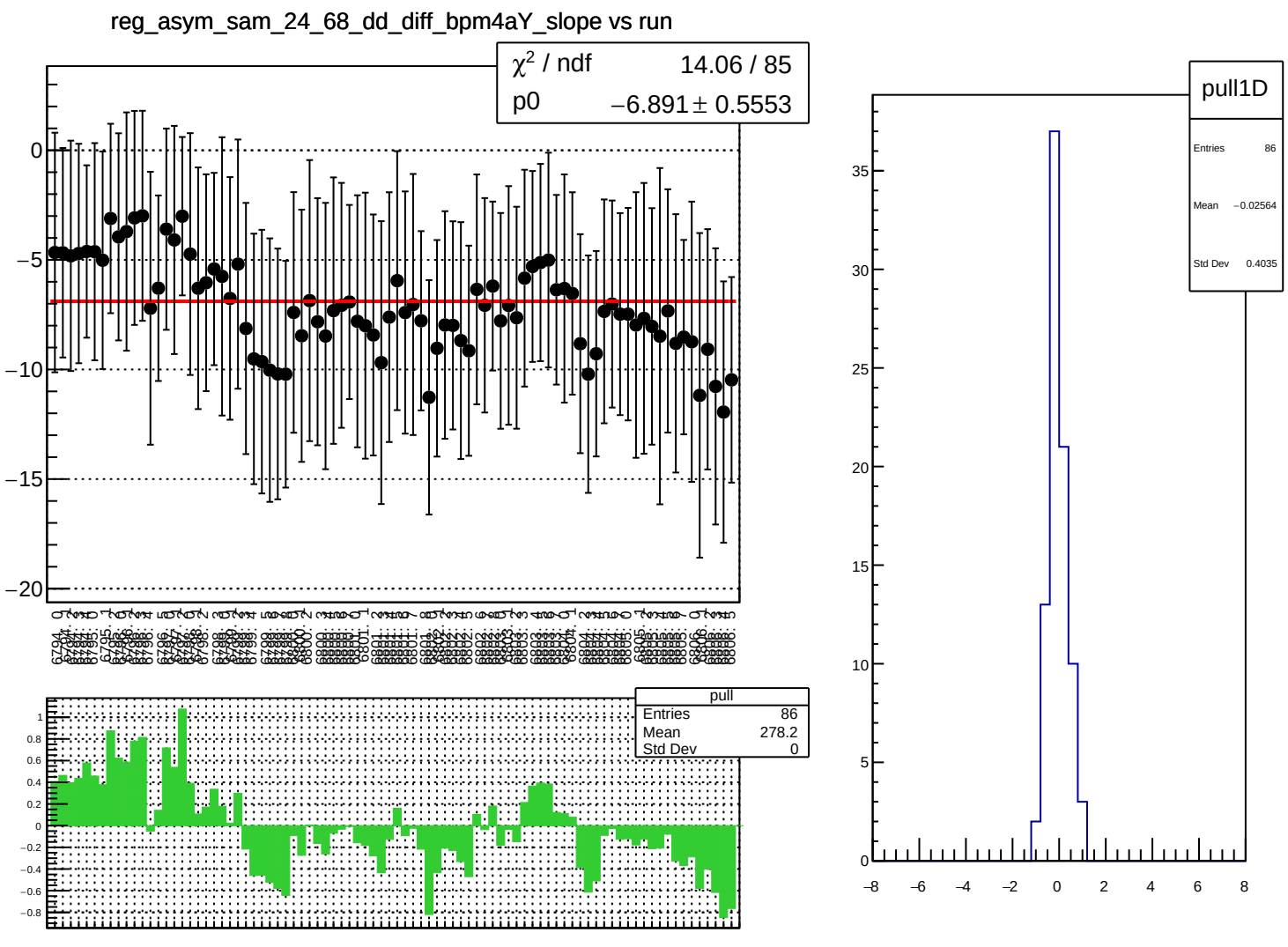

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 60.34 / 85
p0 33.18 ± 0.4507
pull
Entries 86
Mean −123.7
Std Dev 0
pull1D
Entries 86
Mean −0.04414
Std Dev 0.8365

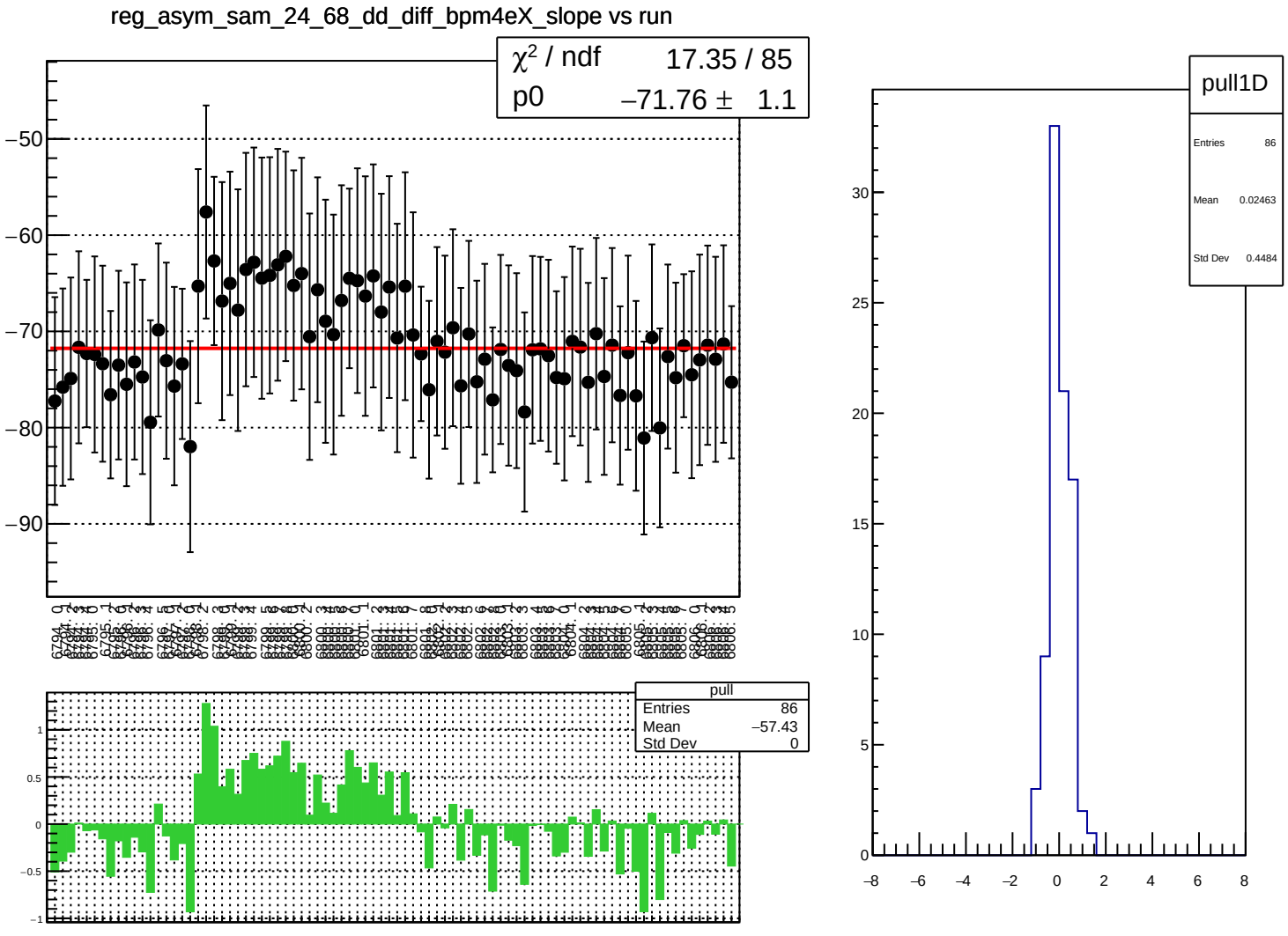

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.33 / 85
p0 19.15 ± 0.3174
pull
Entries 86
Mean 174.1
Std Dev 0
pull1D
Entries 86
Mean −0.01881
Std Dev 0.4077

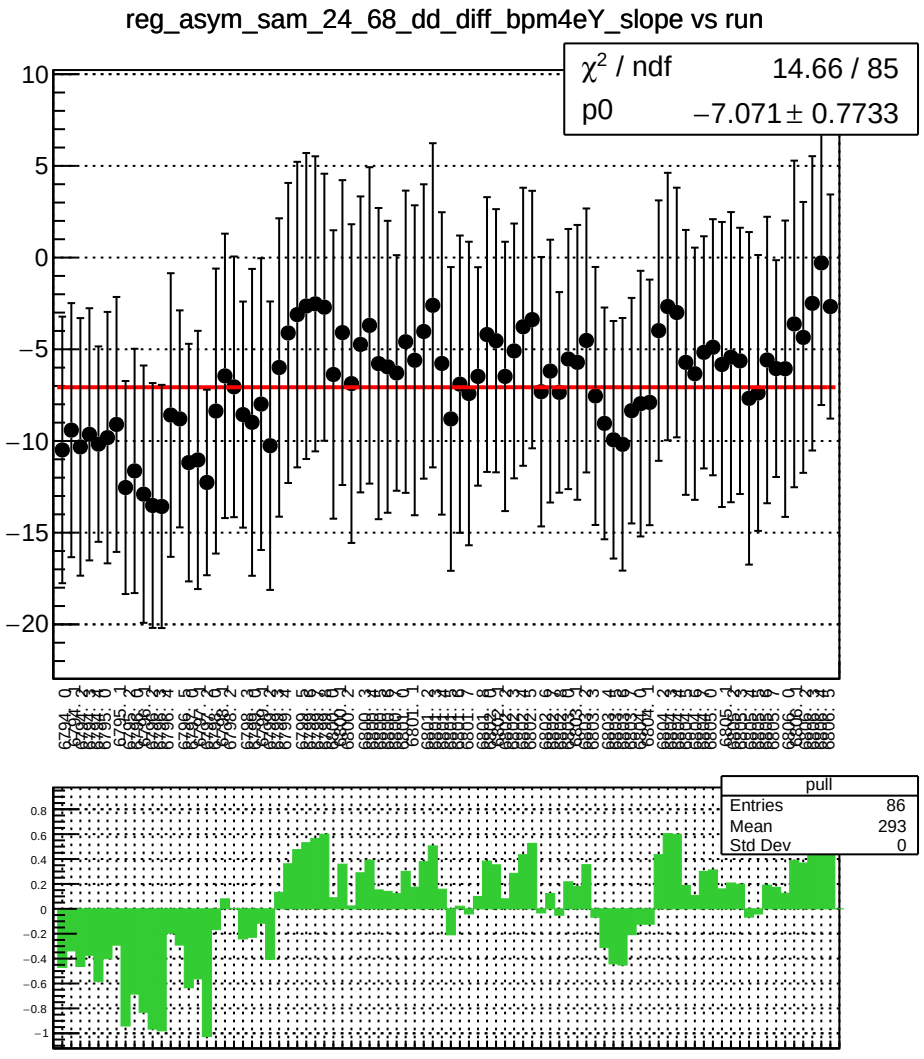

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.041 / 85
p0 −0.08605 ± 0.01826
pull
Entries 86
Mean 203.2
Std Dev 122.7
pull1D
Entries 86
Mean −0.002182
Std Dev 0.265

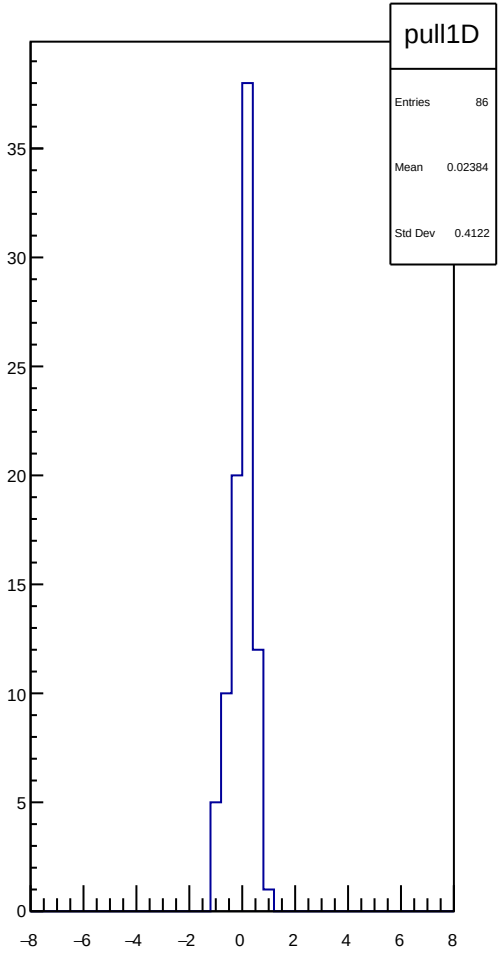

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 16.19 / 85
p0 −39.42 ± 1.175
pull
Entries 86
Mean −38.85
Std Dev 0

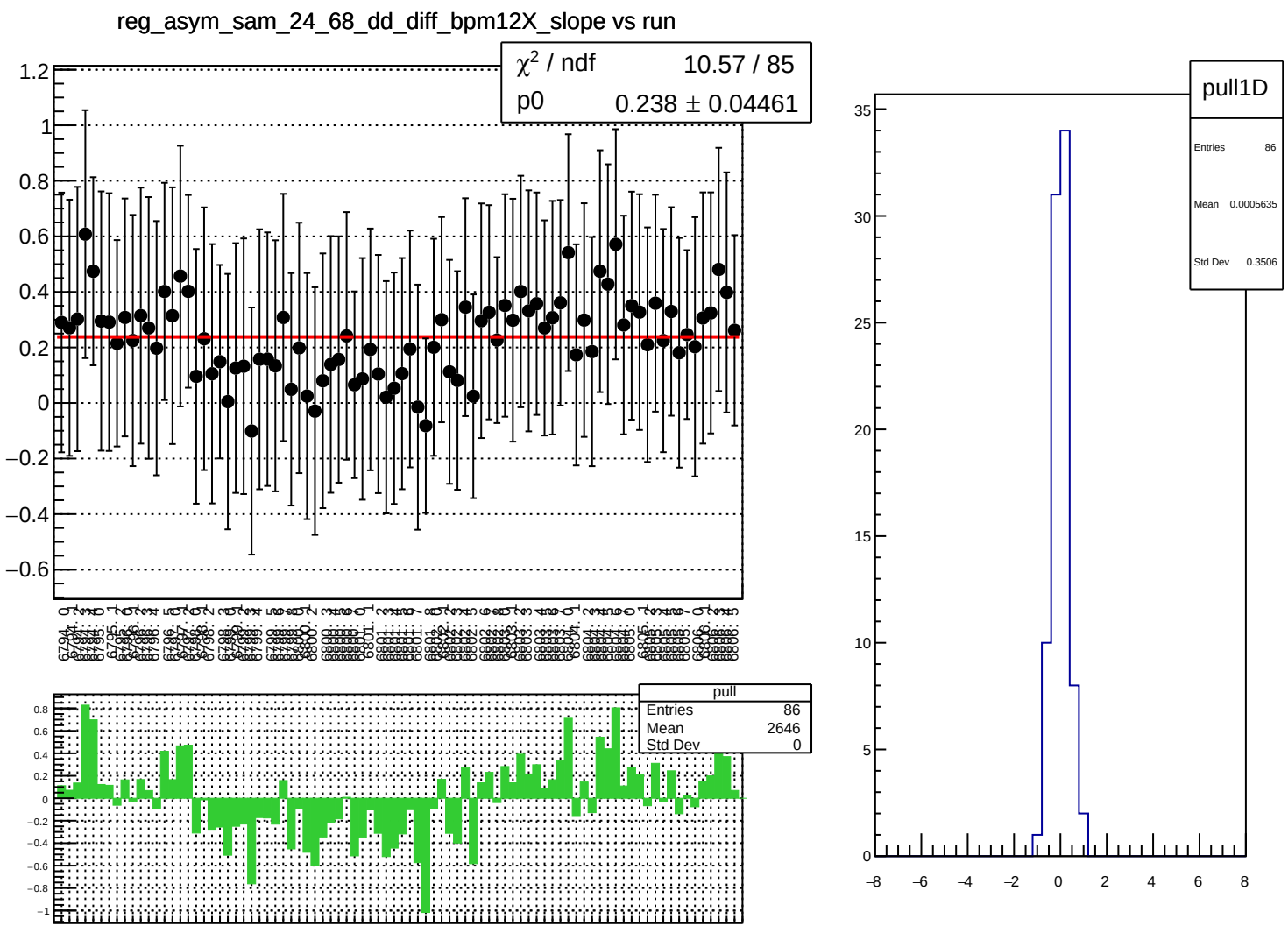

pull1D
Entries 86
Mean −0.0266
Std Dev 0.4331

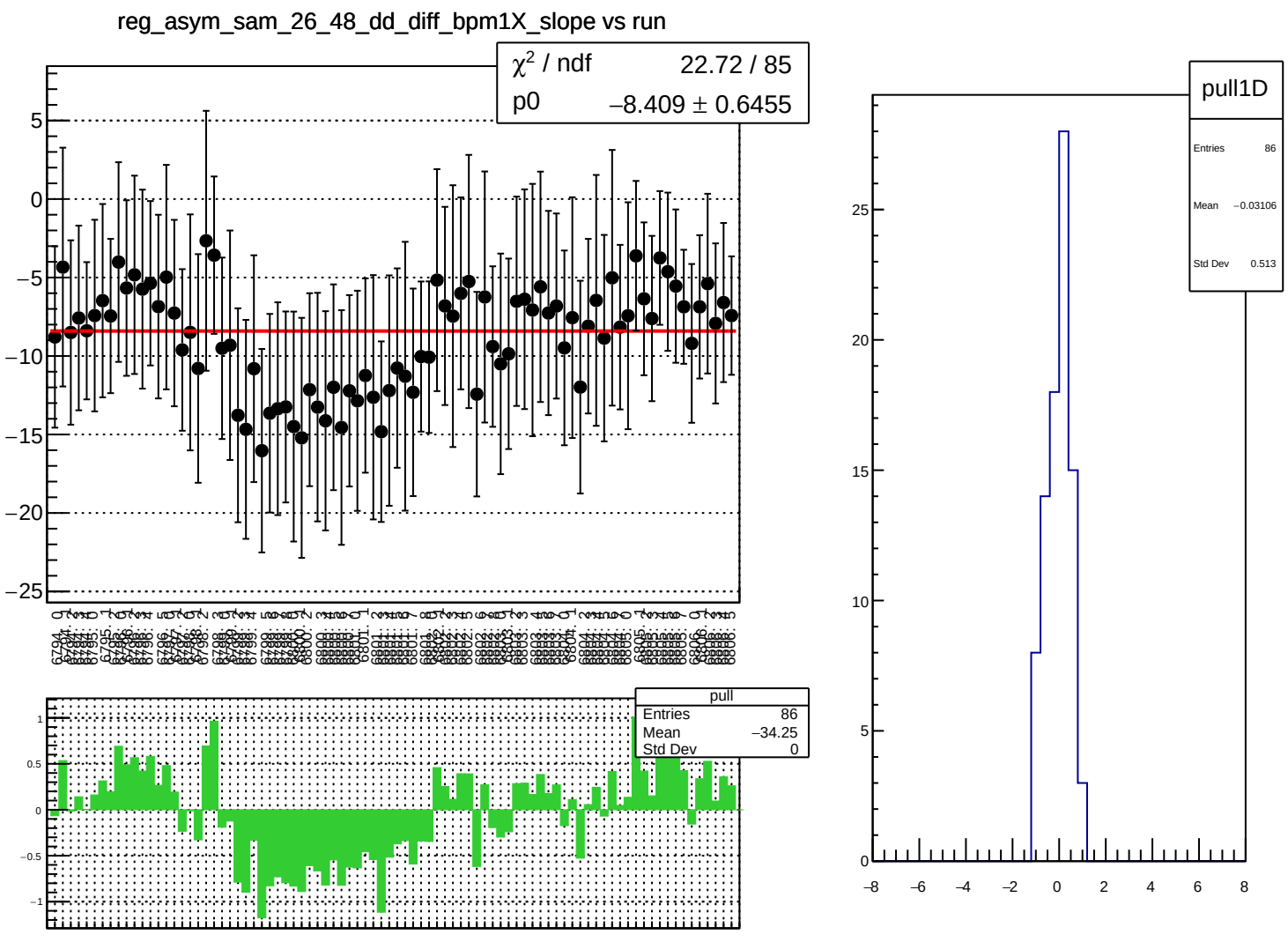

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.06 / 85
p0 −6.891 ± 0.5553
pull
Entries 86
Mean 278.2
Std Dev 0
pull1D
Entries 86
Mean −0.02564
Std Dev 0.4035

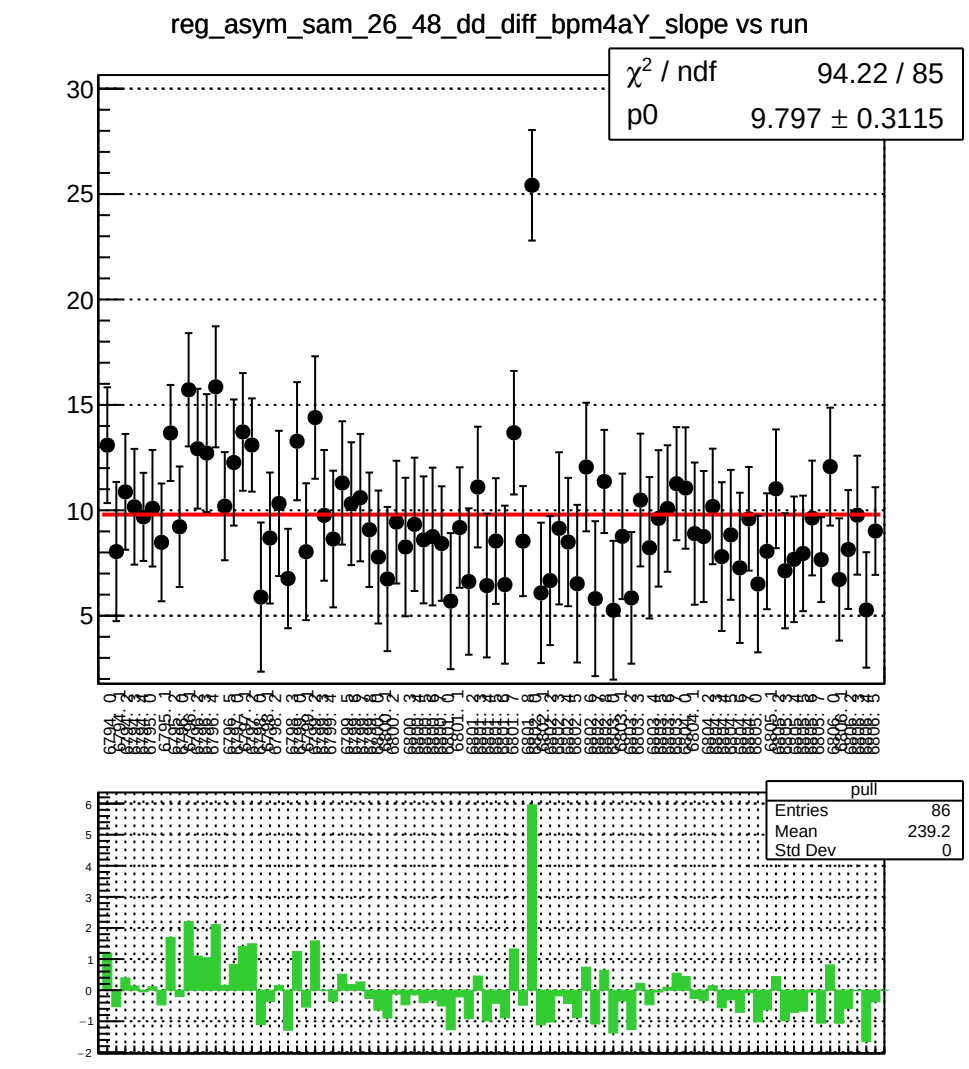

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.35 / 85
p0 −71.76 ± 1.1
−50
−60
−70
−80
−90
pull
Entries 86
Mean −57.43
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.02463
Std Dev 0.4484
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

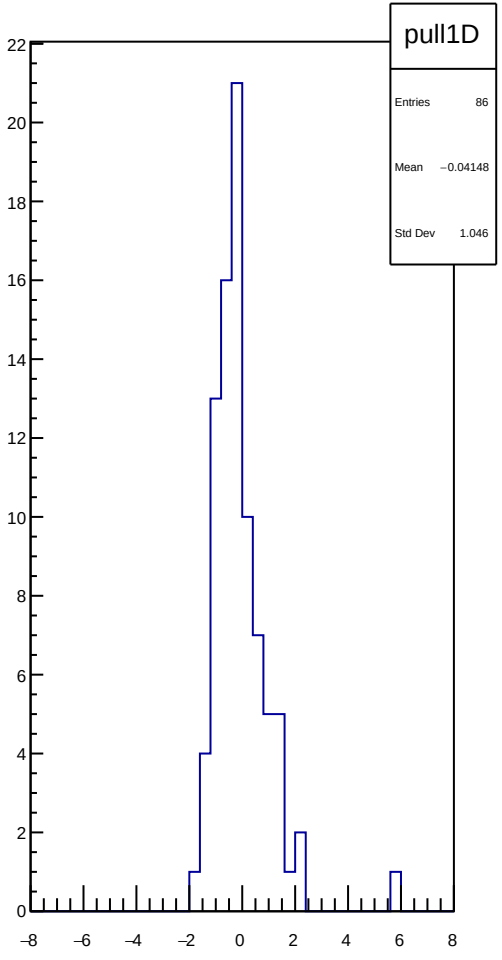

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.66 / 85
p0 −7.071 ± 0.7733
pull
Entries 86
Mean 293
Std Dev 0

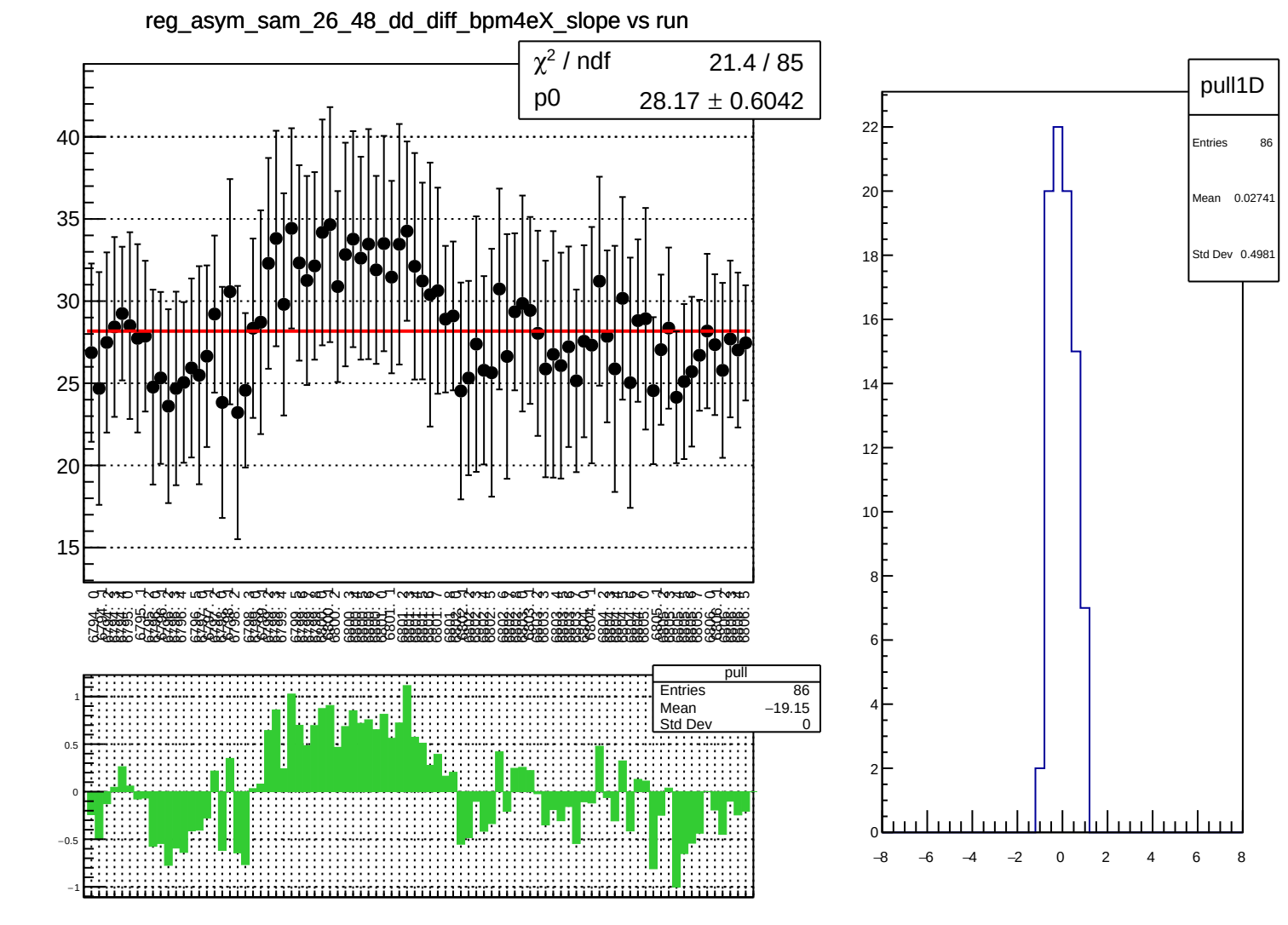

pull1D
Entries 86
Mean 0.02384
Std Dev 0.4122

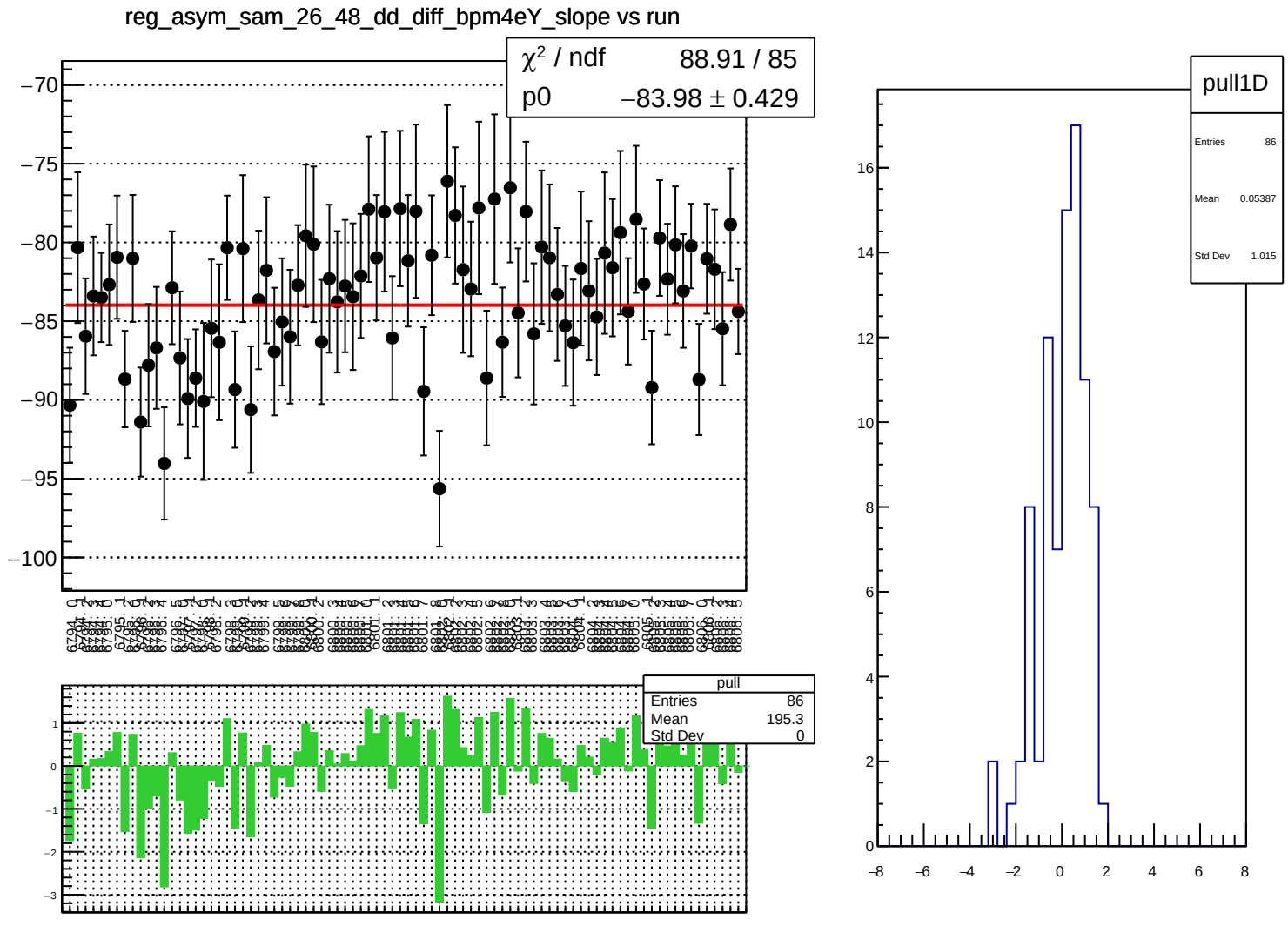

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 10.57 / 85
p0 0.238 ± 0.04461
pull
Entries 86
Mean 2646
Std Dev 0
pull1D
Entries 86
Mean 0.0005635
Std Dev 0.3506

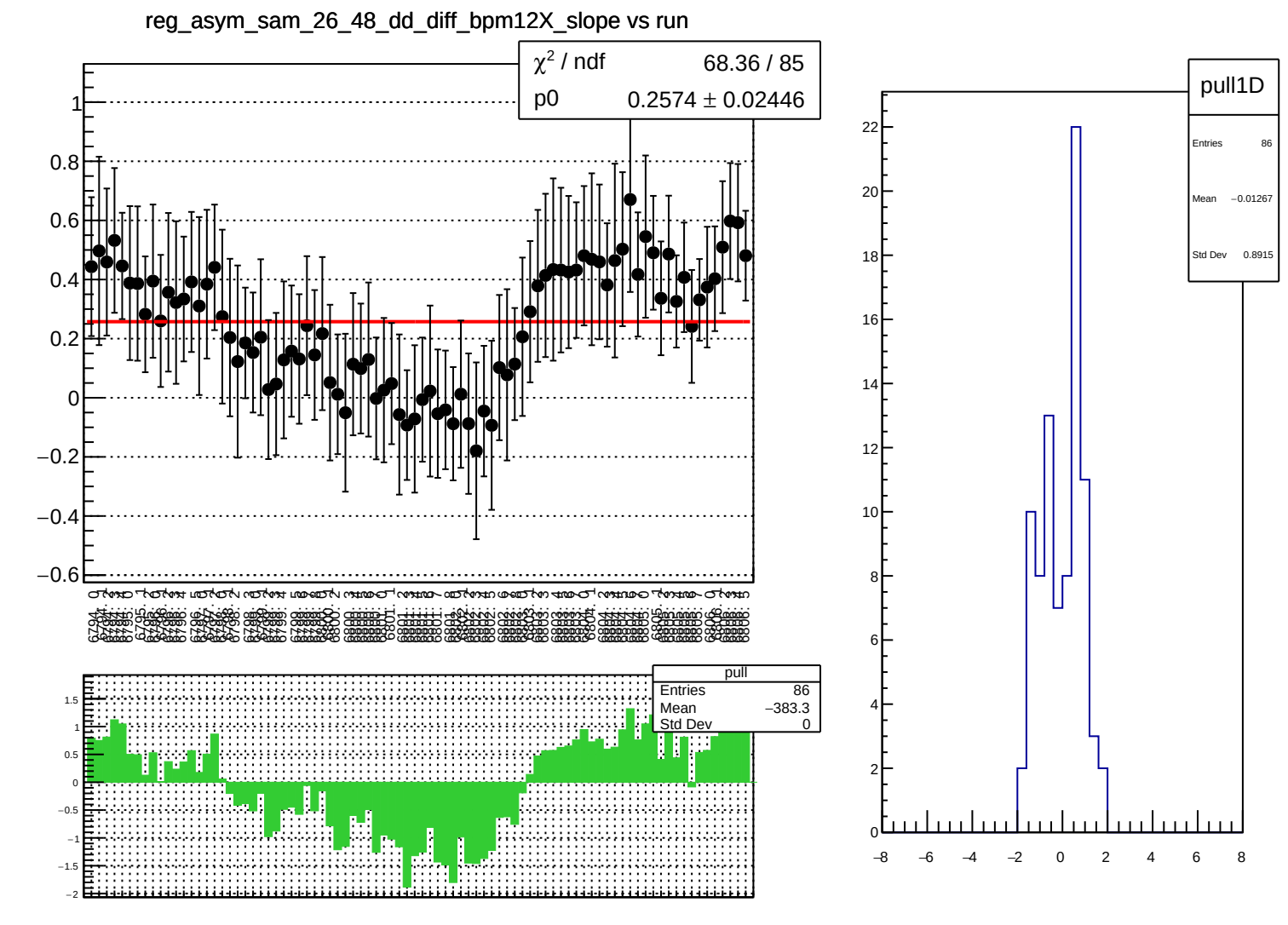

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 22.72 / 85
p0 −8.409 ± 0.6455
pull
Entries 86
Mean −34.25
Std Dev 0
pull1D
Entries 86
Mean −0.03106
Std Dev 0.513

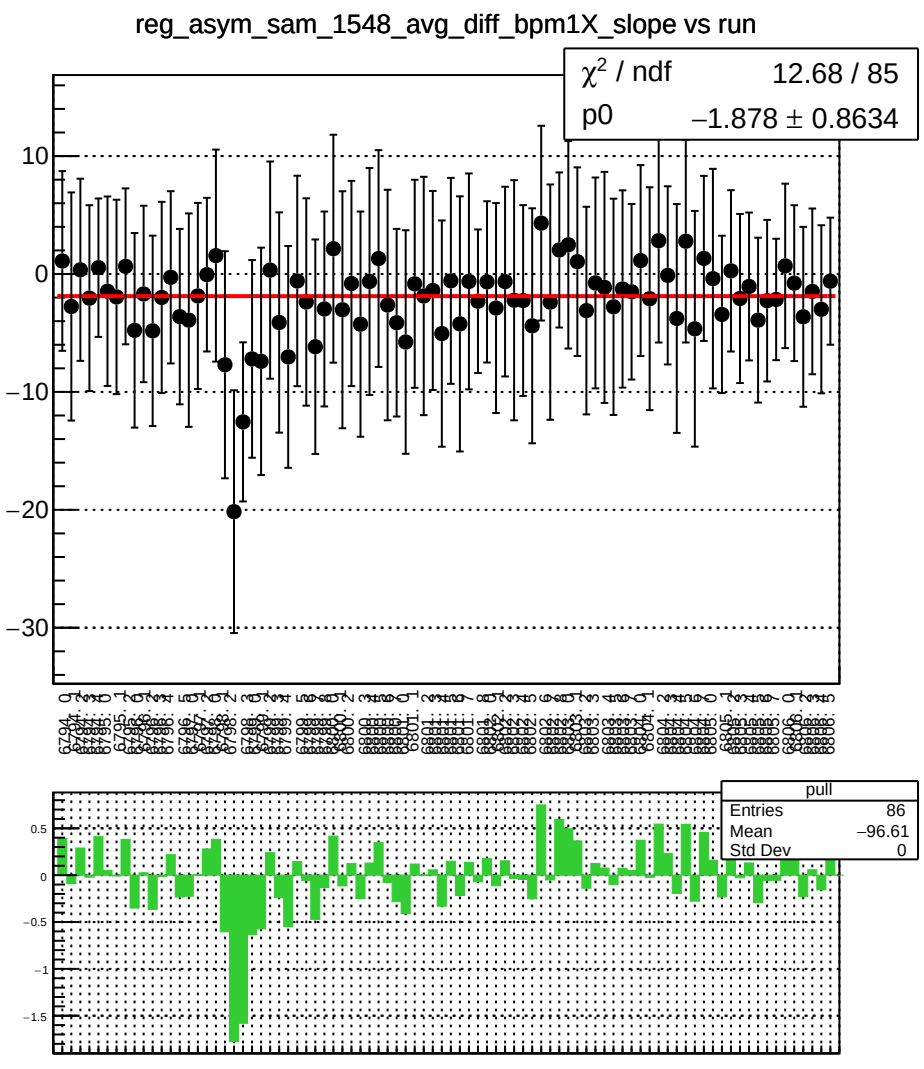

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.22 / 85
p0 9.797 ± 0.3115
pull
Entries 86
Mean 239.2
Std Dev 0

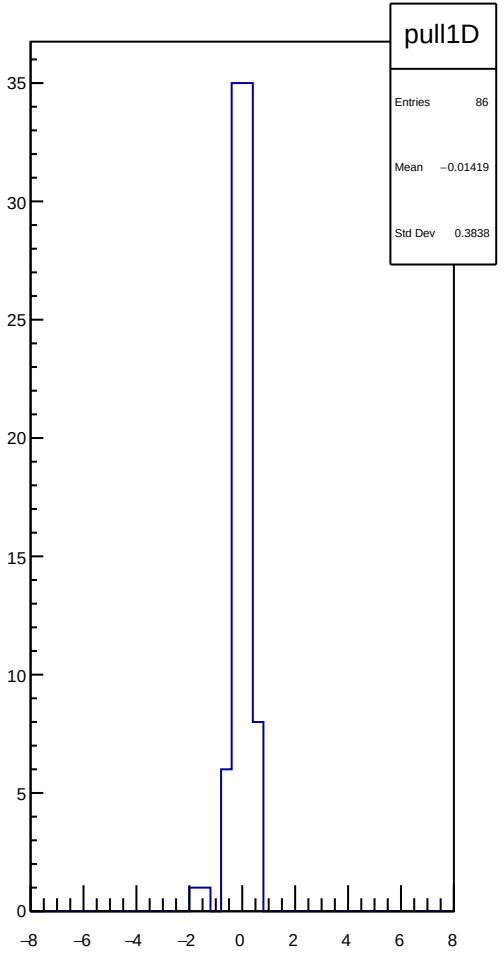

pull1D
Entries 86
Mean −0.04148
Std Dev 1.046

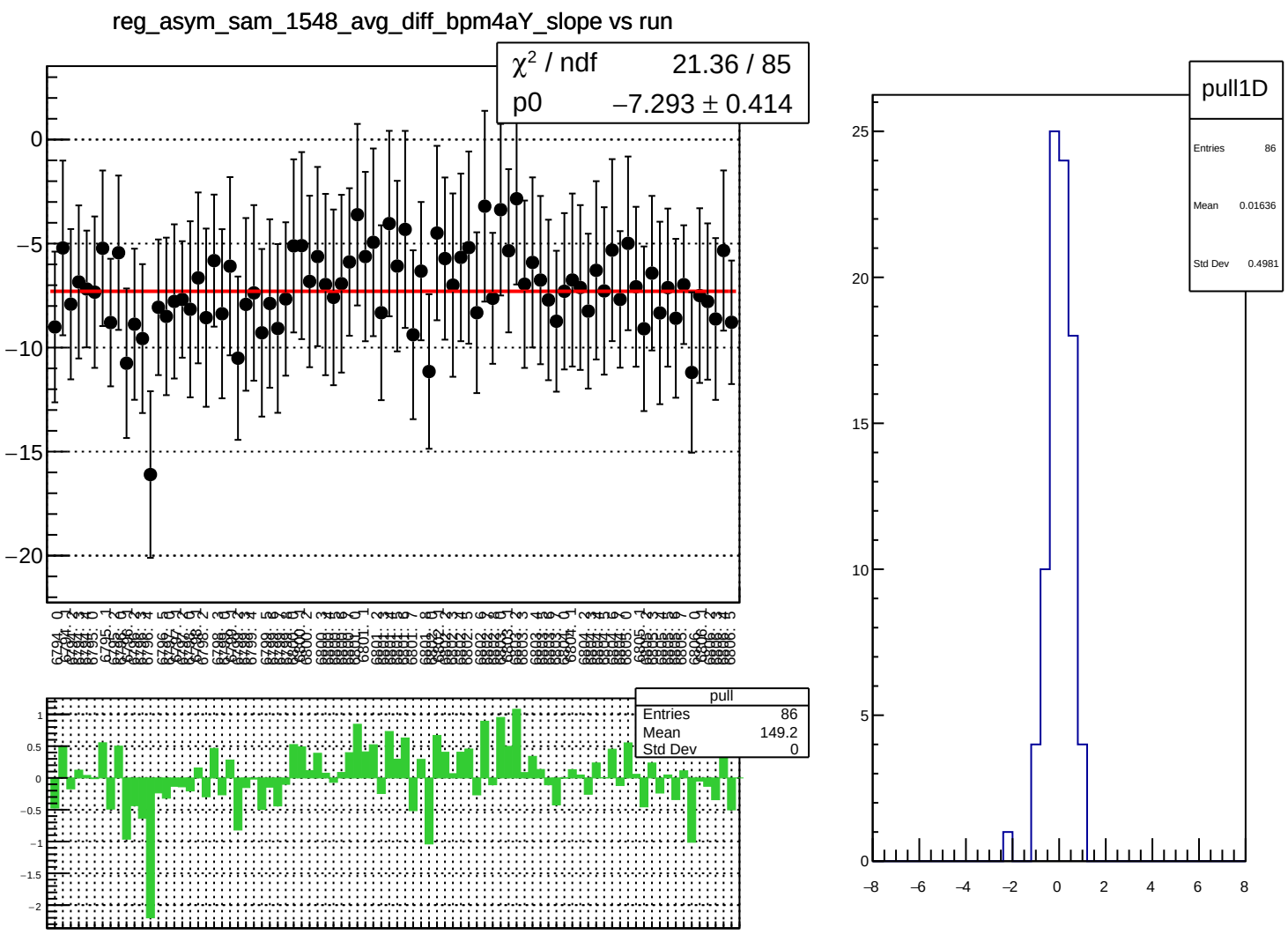

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.4 / 85
p0 28.17 ± 0.6042
pull
Entries 86
Mean −19.15
Std Dev 0
pull1D
Entries 86
Mean 0.02741
Std Dev 0.4981

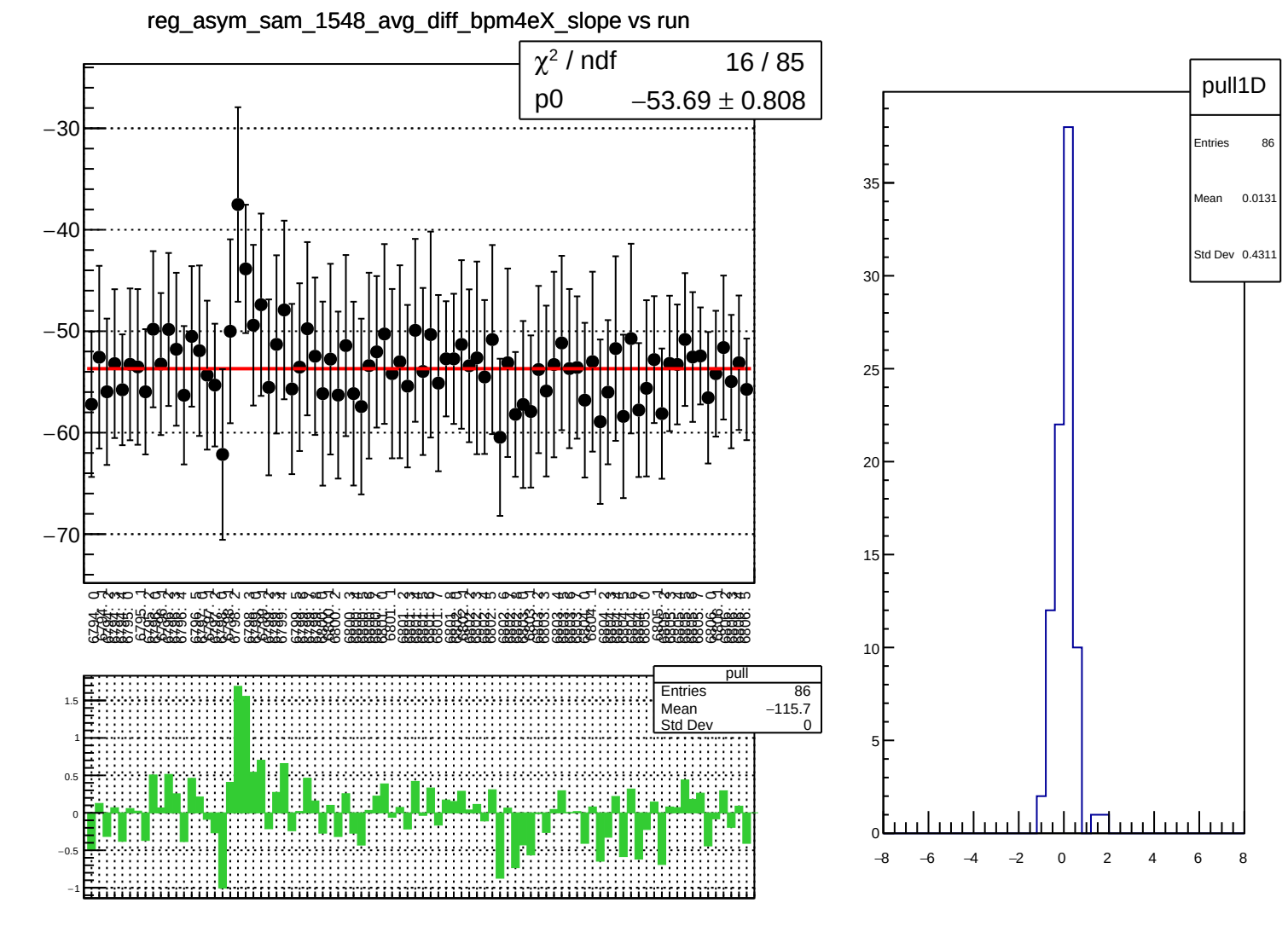

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.91 / 85
p0 −83.98 ± 0.429
pull
Entries 86
Mean 195.3
Std Dev 0
pull1D
Entries 86
Mean 0.05387
Std Dev 1.015

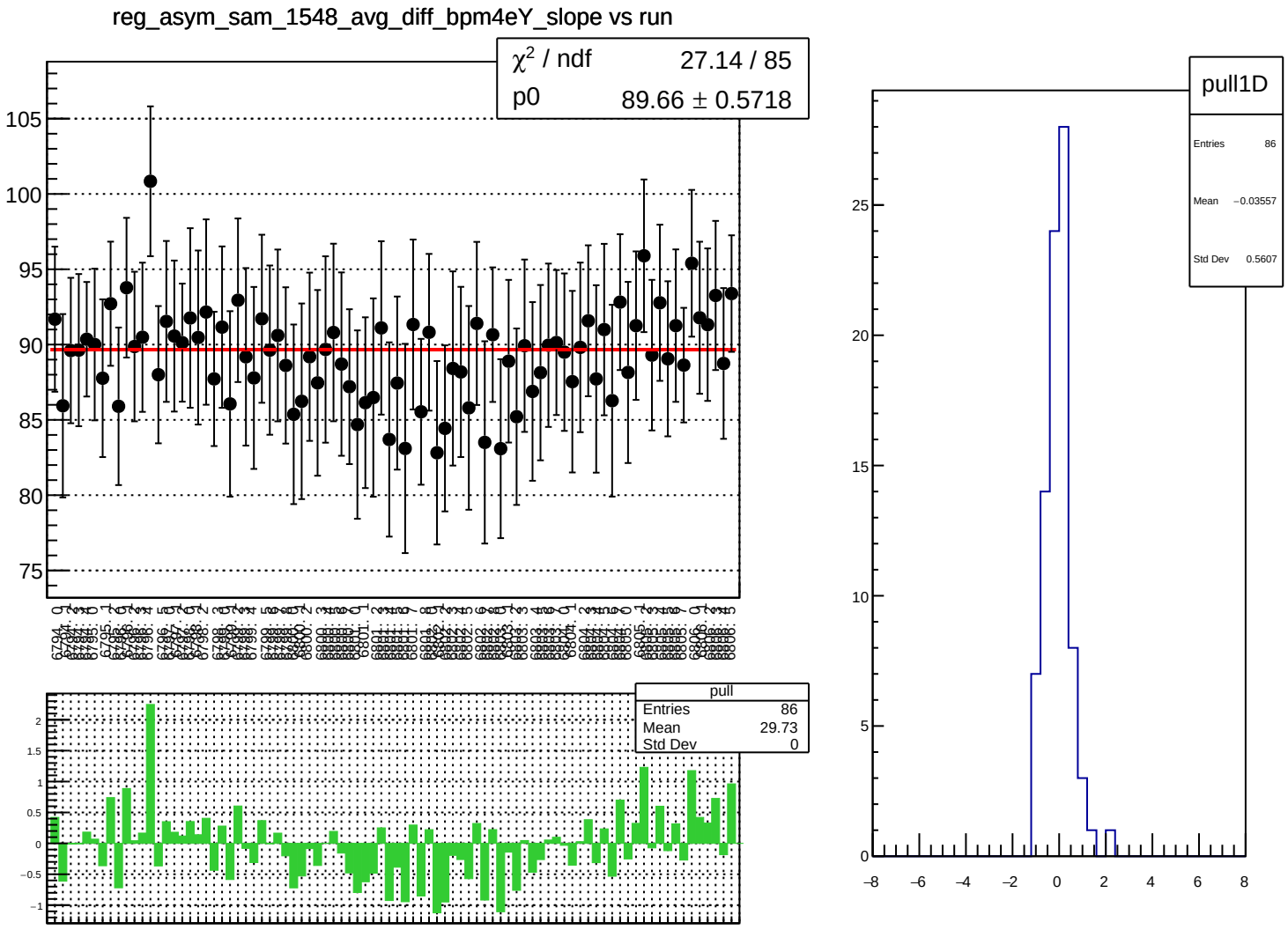

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 68.36 / 85
p0 0.2574 ± 0.02446
pull
Entries 86
Mean −383.3
Std Dev 0
pull1D
Entries 86
Mean −0.01267
Std Dev 0.8915

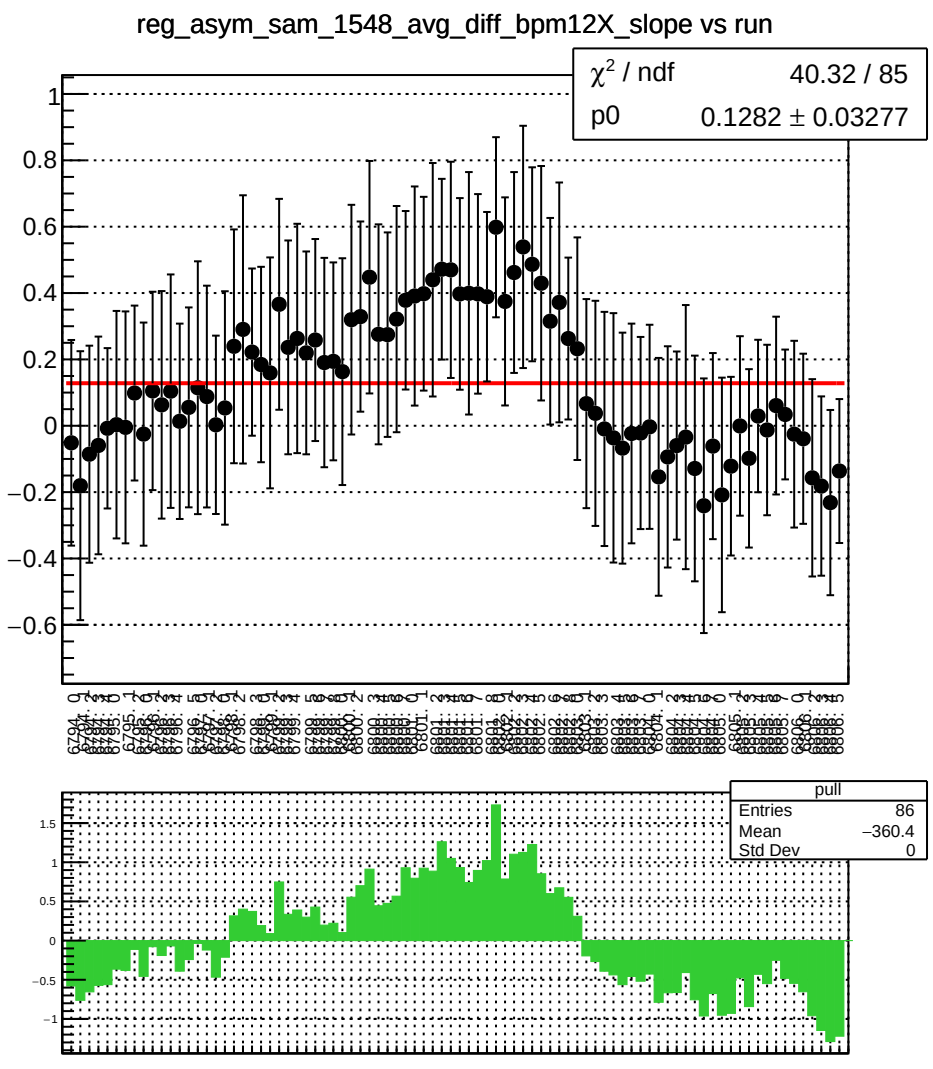

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 12.68 / 85
p0 −1.878 ± 0.8634
pull
Entries 86
Mean −96.61
Std Dev 0

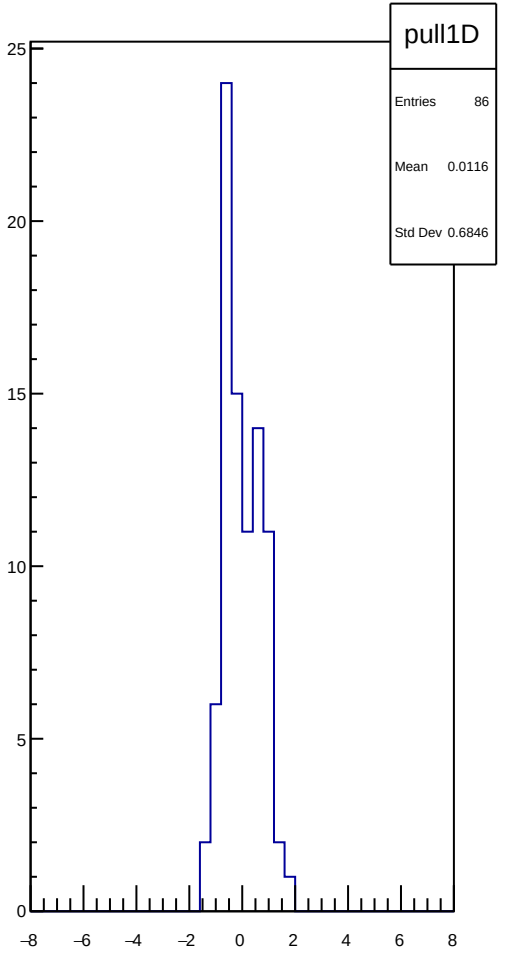

pull1D
Entries 86
Mean −0.01419
Std Dev 0.3838

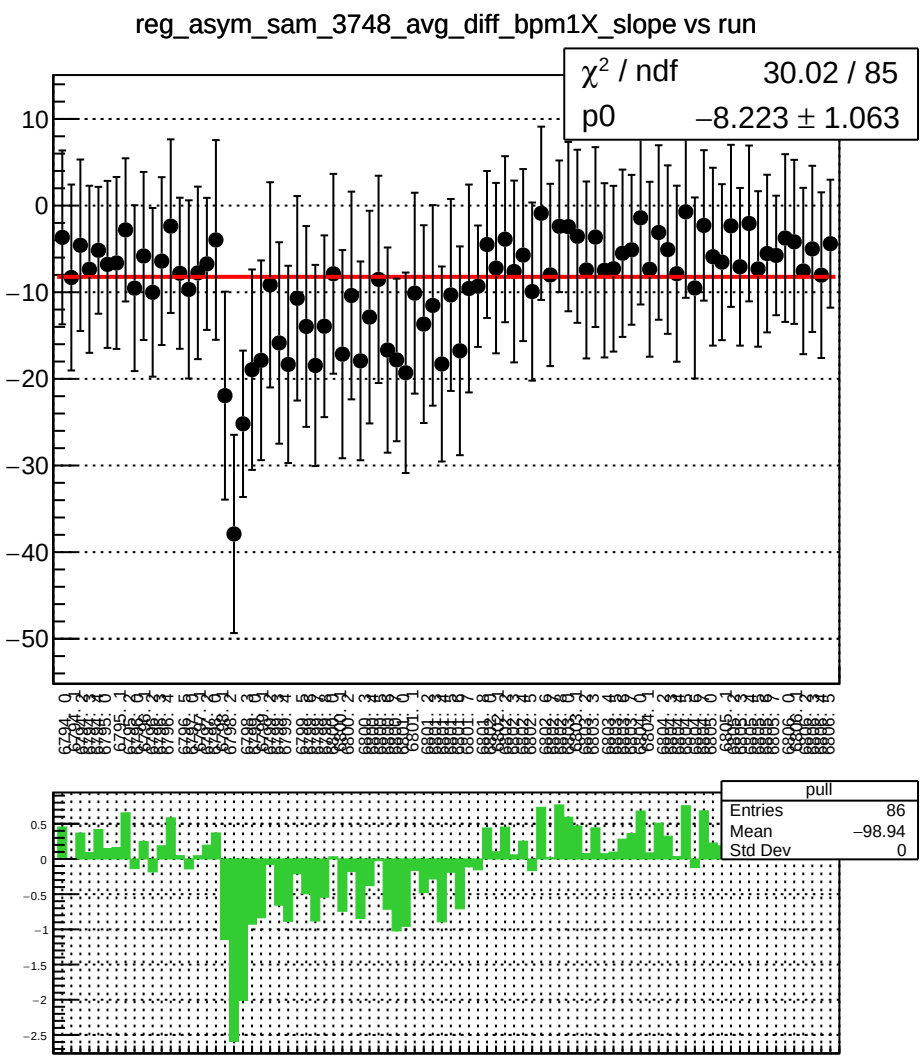

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.36 / 85
p0 −7.293 ± 0.414
pull
Entries 86
Mean 149.2
Std Dev 0
pull1D
Entries 86
Mean 0.01636
Std Dev 0.4981

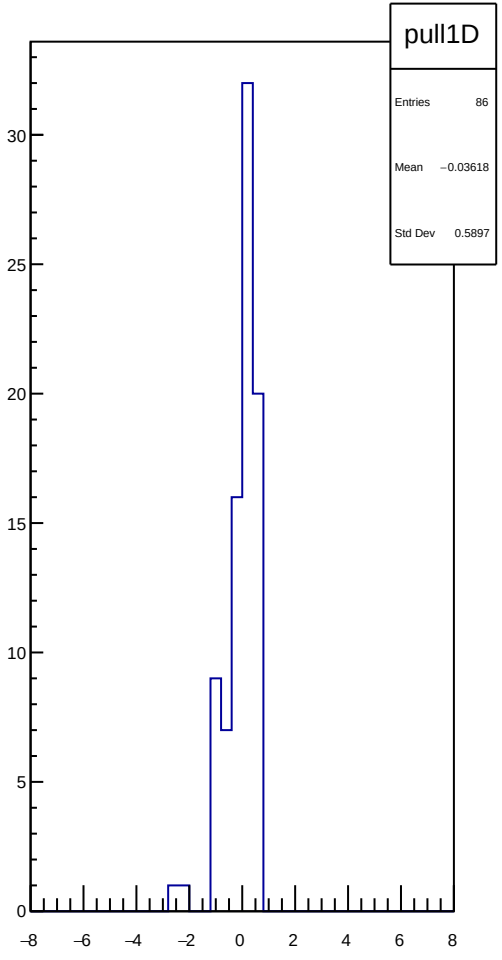

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 16 / 85
p0 −53.69 ± 0.808
pull
Entries 86
Mean −115.7
Std Dev 0
pull1D
Entries 86
Mean 0.0131
Std Dev 0.4311

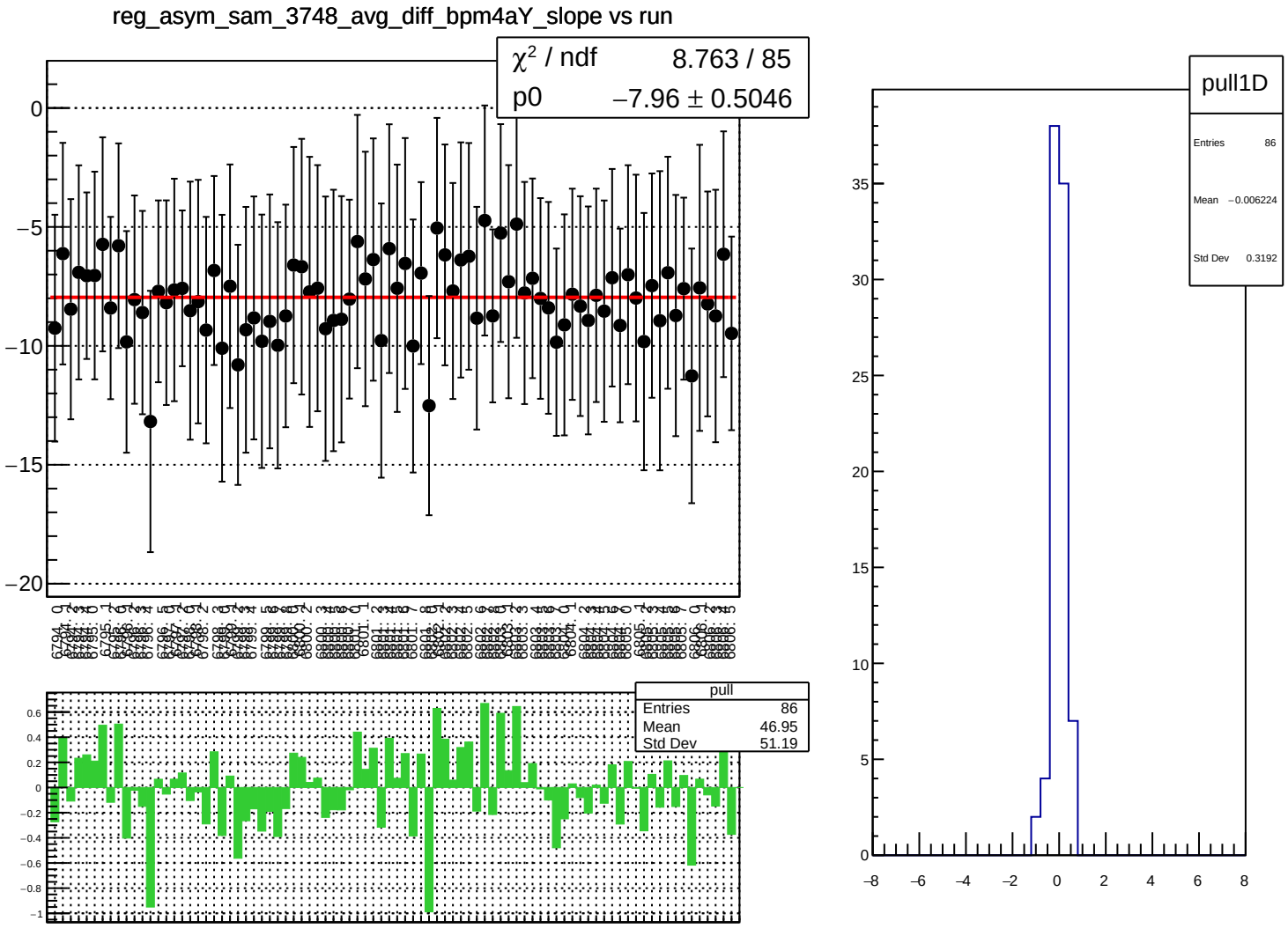

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.14 / 85
p0 89.66 ± 0.5718
105
100
95
90
85
80
75
pull
Entries 86
Mean 29.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.03557
Std Dev 0.5607
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

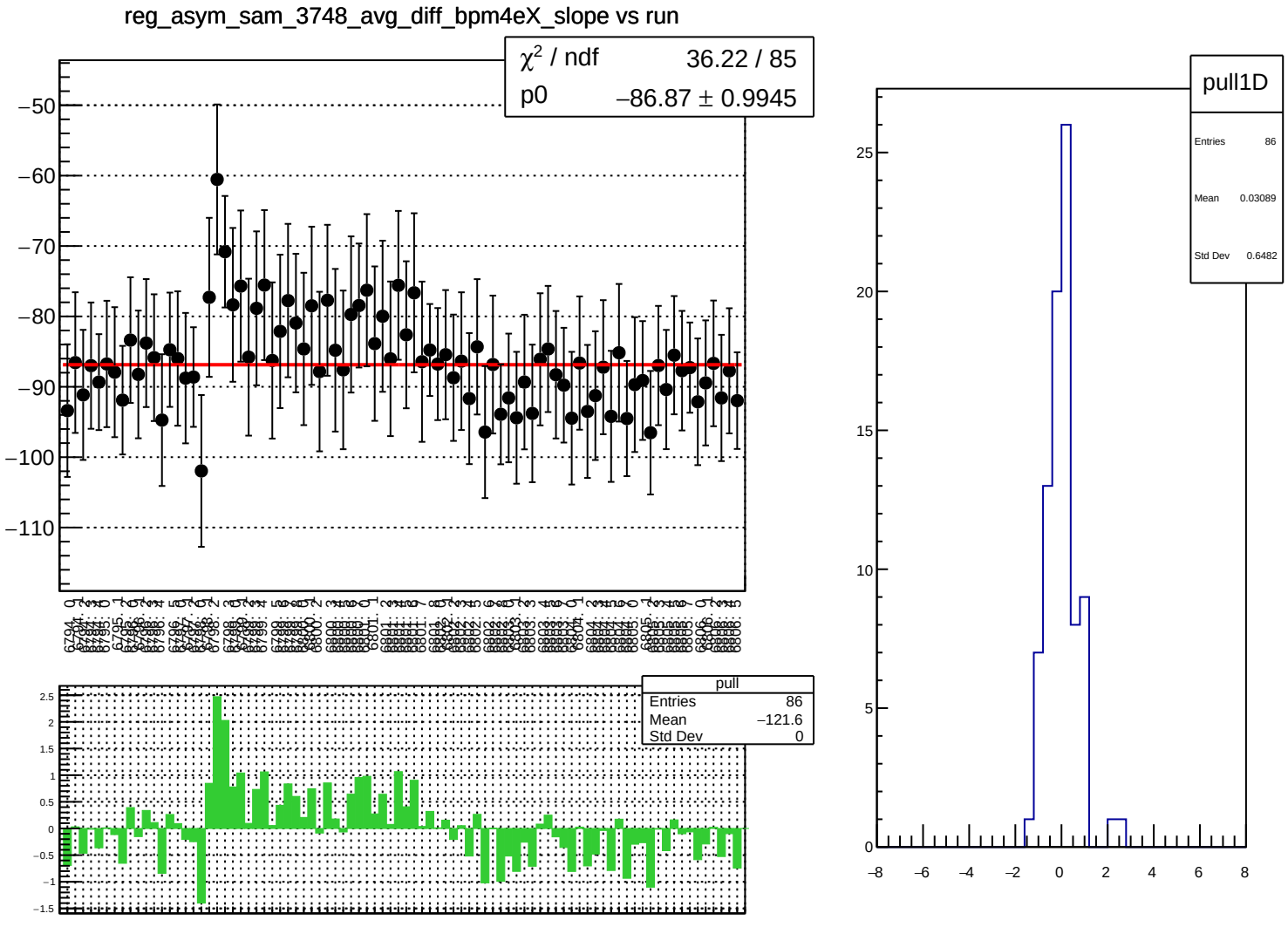

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 40.32 / 85
p0 0.1282 ± 0.03277
pull
Entries 86
Mean −360.4
Std Dev 0

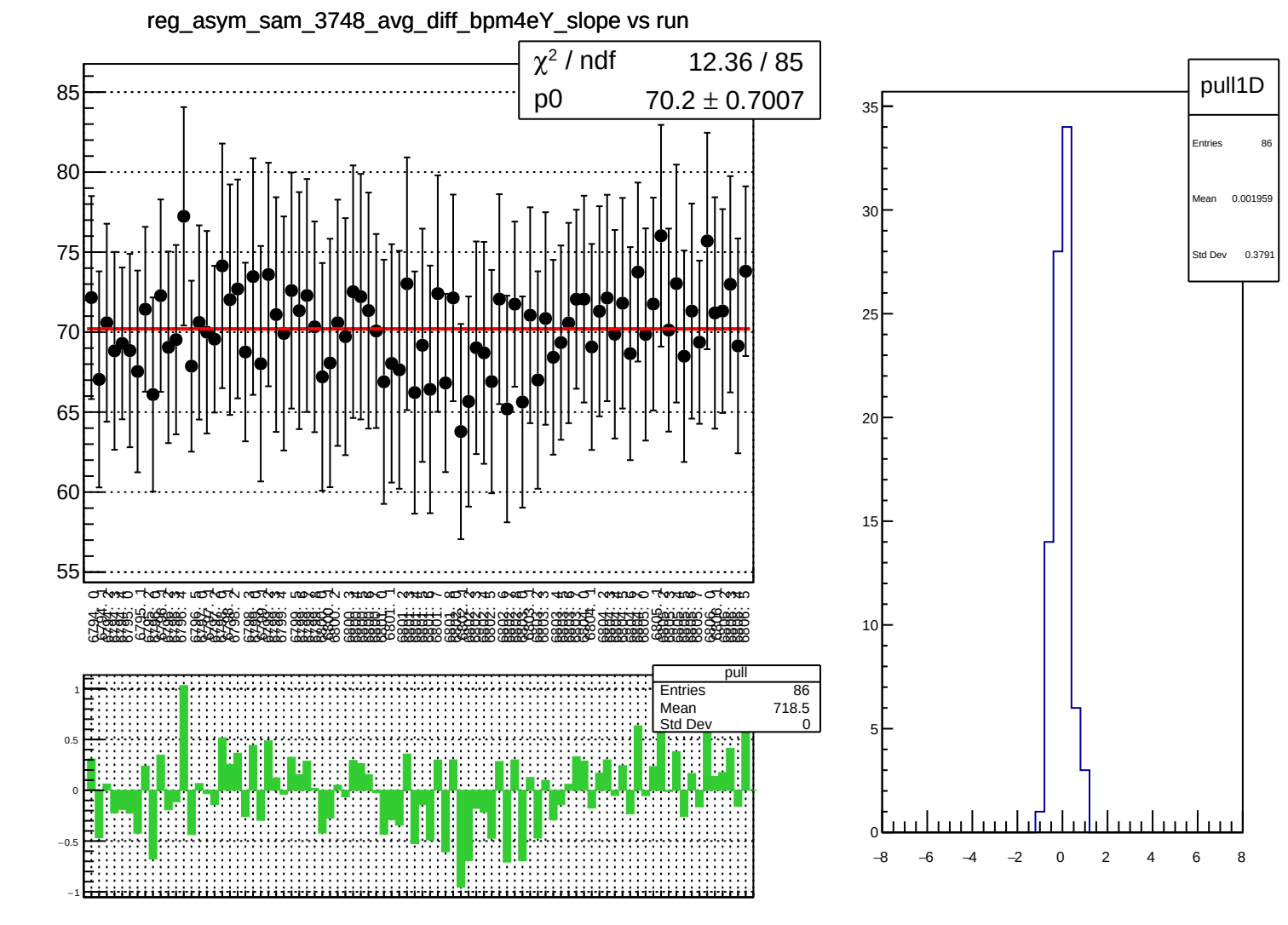

pull1D
Entries 86
Mean 0.0116
Std Dev 0.6846

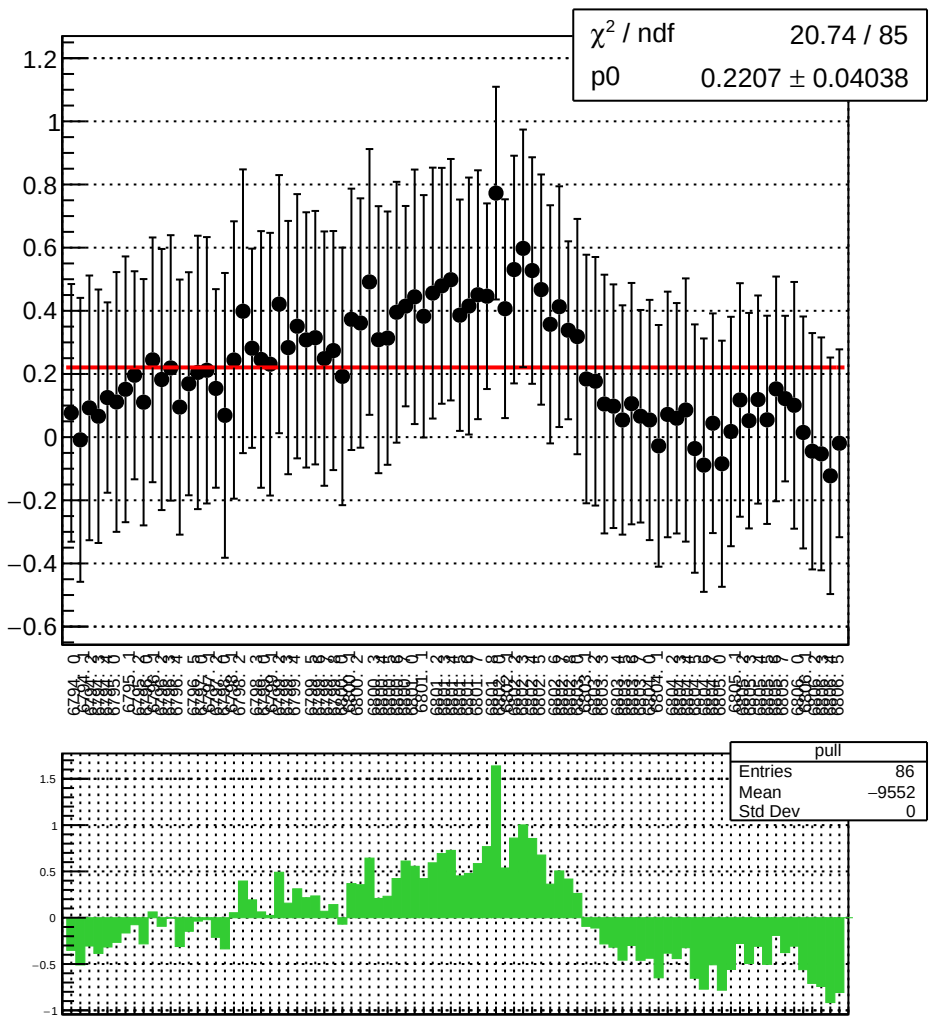

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 30.02 / 85
p0 −8.223 ± 1.063
pull
Entries 86
Mean −98.94
Std Dev 0

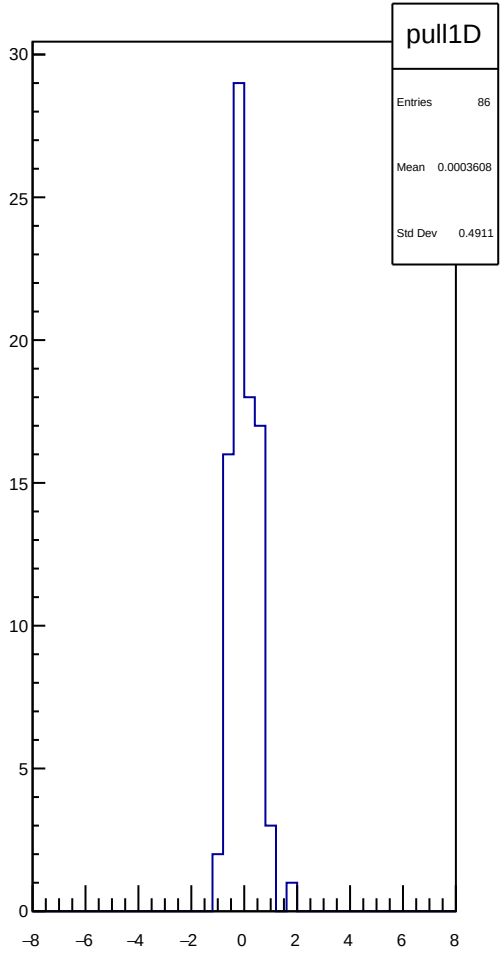

pull1D
Entries 86
Mean −0.03618
Std Dev 0.5897

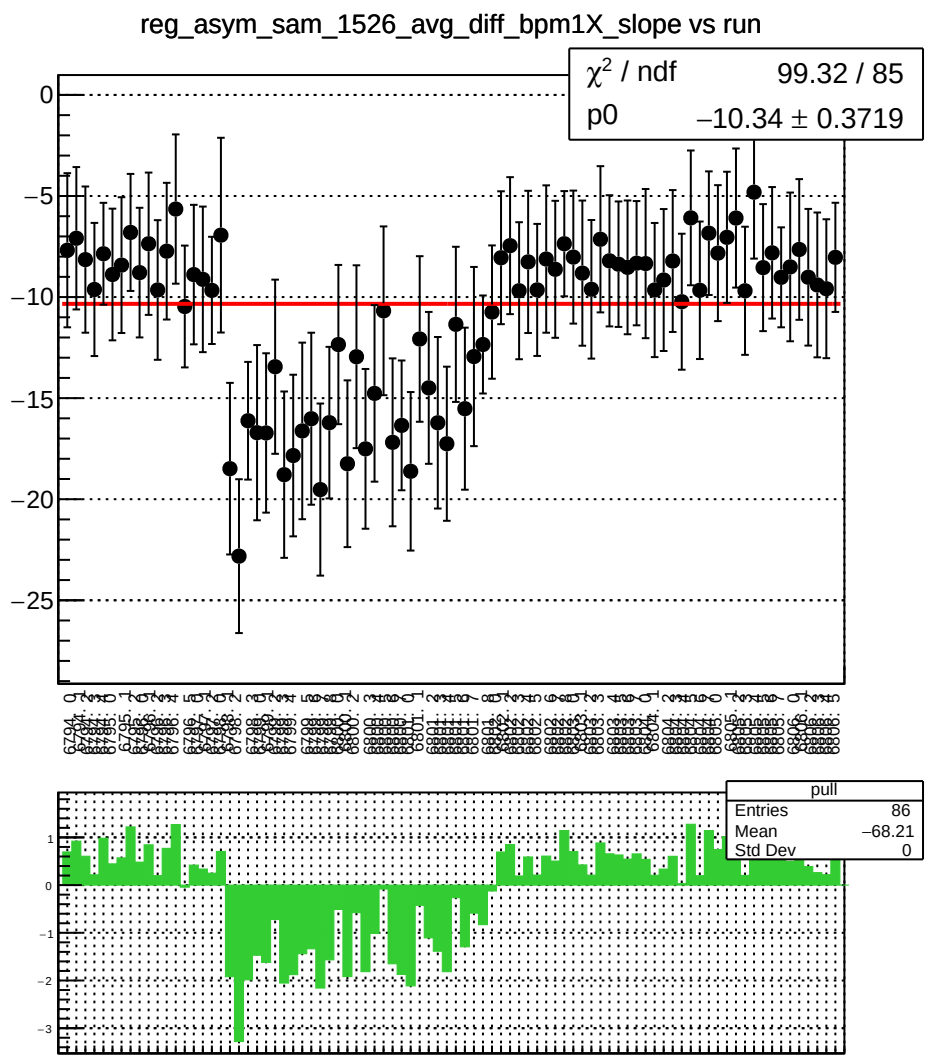

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.763 / 85
p0 −7.96 ± 0.5046
pull
Entries 86
Mean 46.95
Std Dev 51.19
pull1D
Entries 86
Mean −0.006224
Std Dev 0.3192

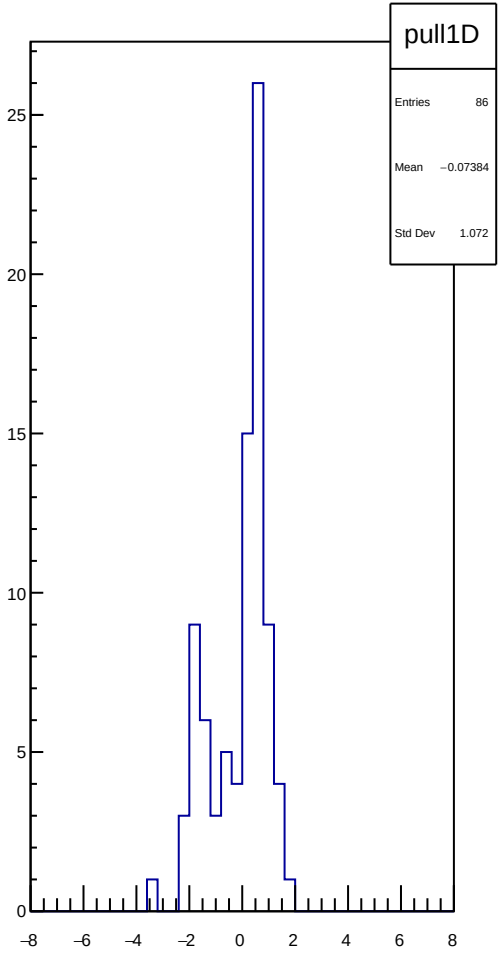

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 36.22 / 85
p0 −86.87 ± 0.9945
pull
Entries 86
Mean −121.6
Std Dev 0
pull1D
Entries 86
Mean 0.03089
Std Dev 0.6482

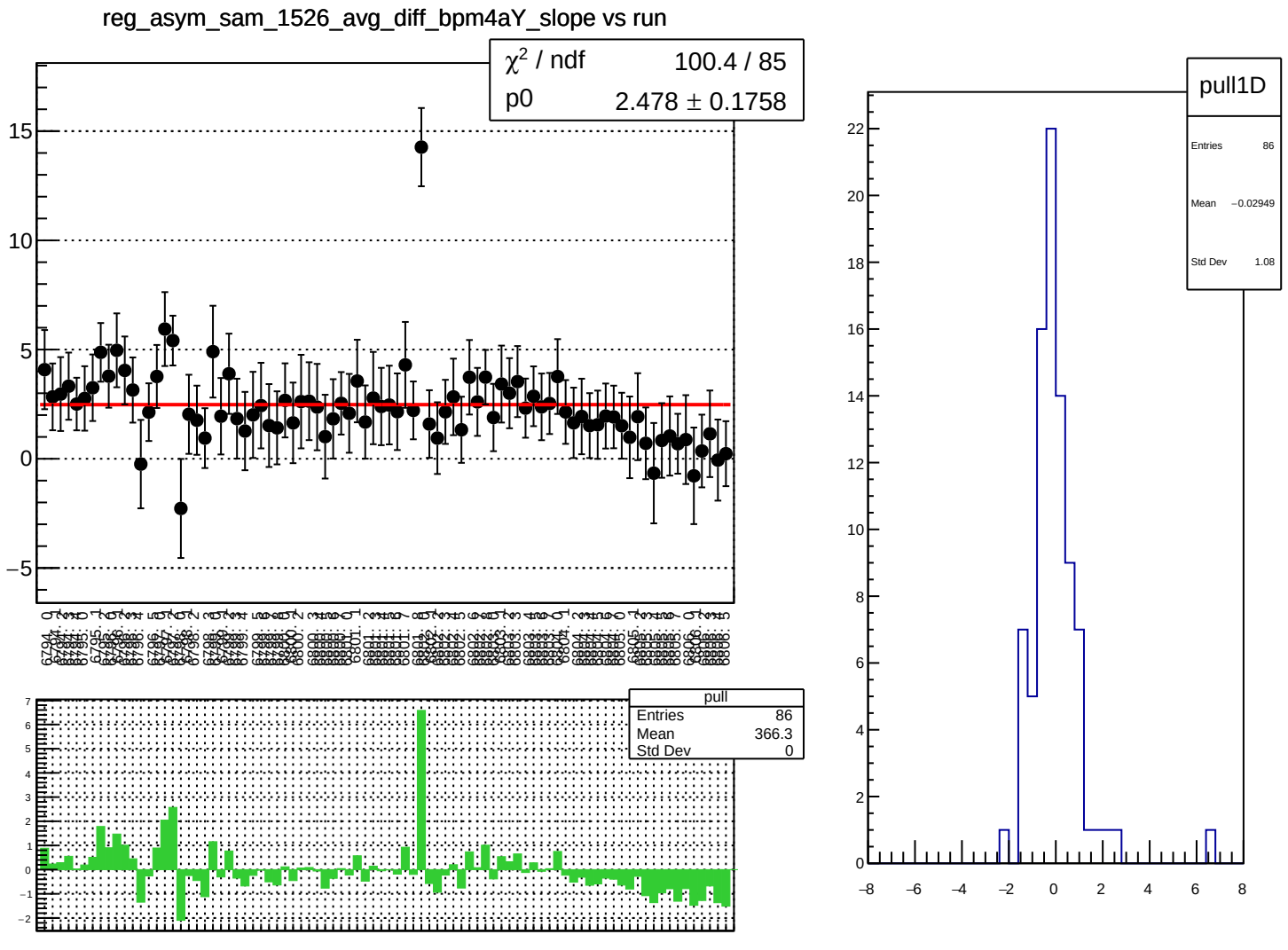

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.36 / 85
p0 70.2 ± 0.7007
pull
Entries 86
Mean 718.5
Std Dev 0
pull1D
Entries 86
Mean 0.001959
Std Dev 0.3791

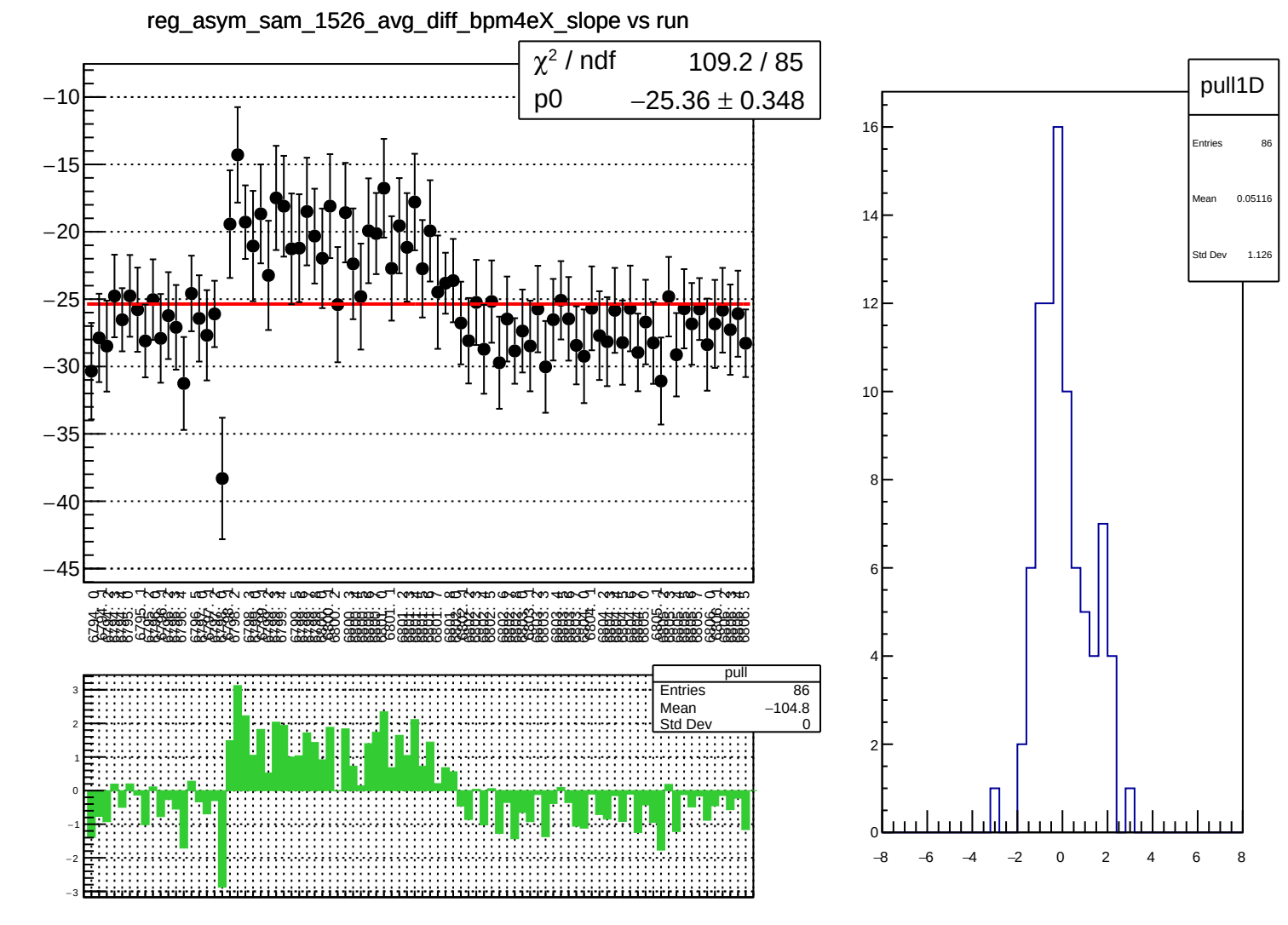

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 20.74 / 85
p0 0.2207 ± 0.04038
pull
Entries 86
Mean −9552
Std Dev 0

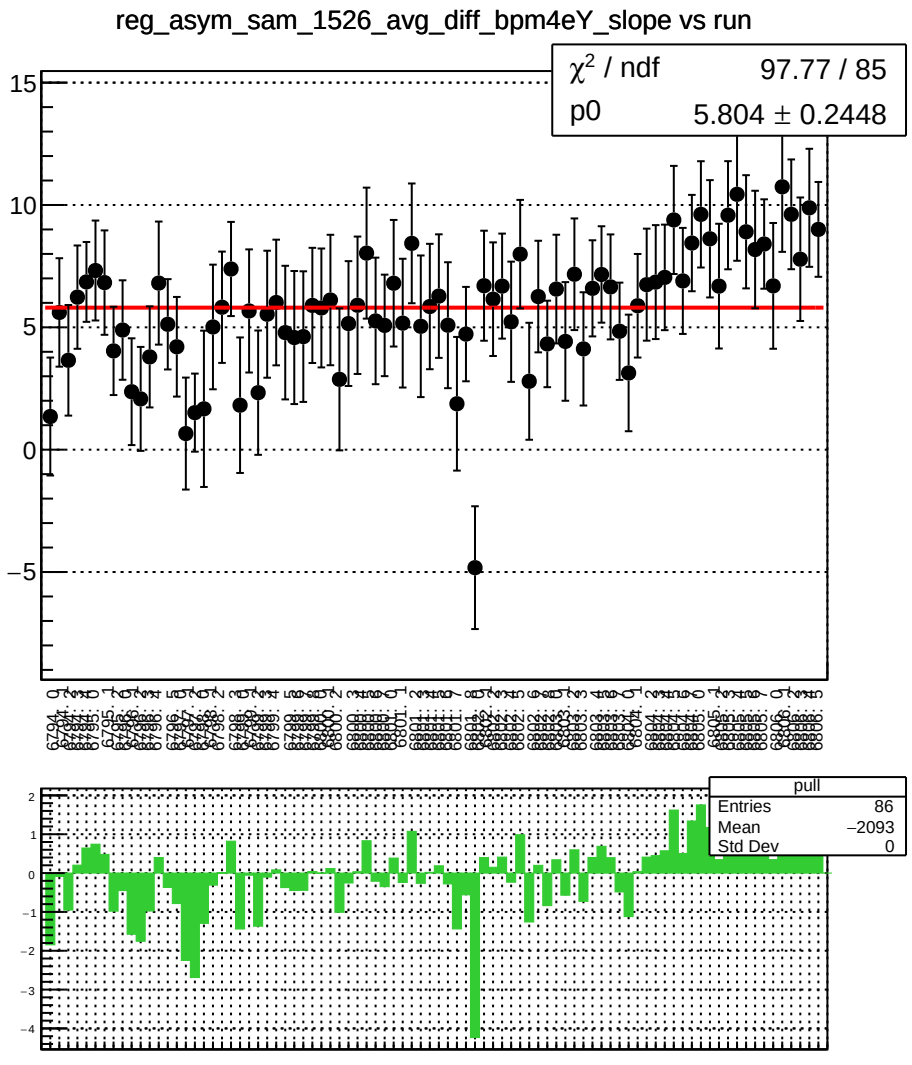

pull1D
Entries 86
Mean 0.0003608
Std Dev 0.4911

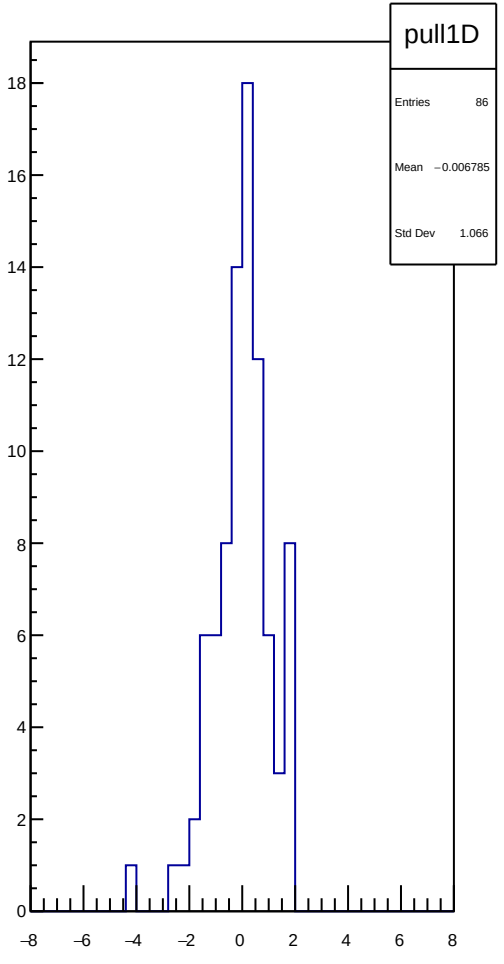

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 99.32 / 85
p0 −10.34 ± 0.3719
pull
Entries 86
Mean −68.21
Std Dev 0

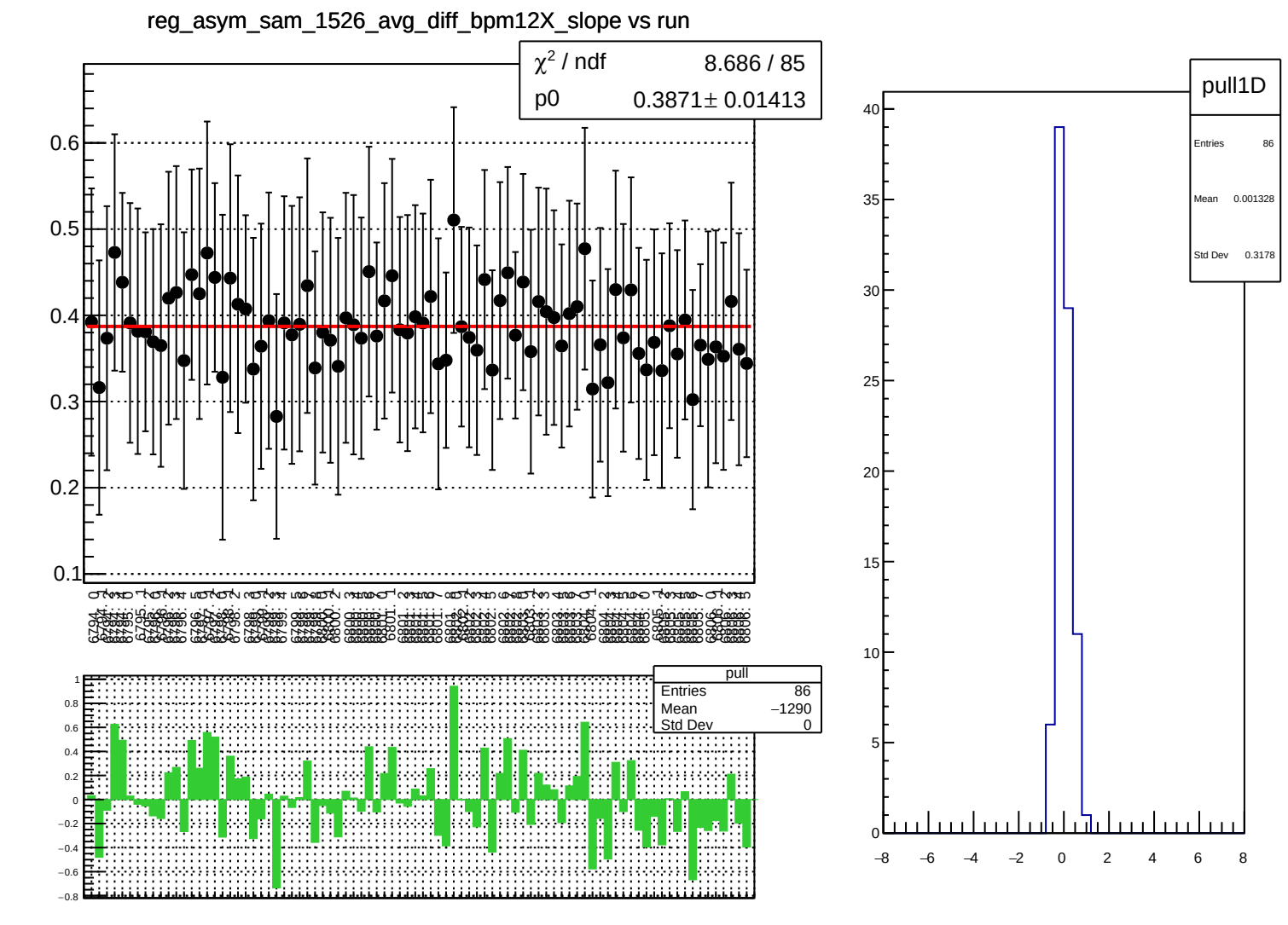

pull1D
Entries 86
Mean −0.07384
Std Dev 1.072

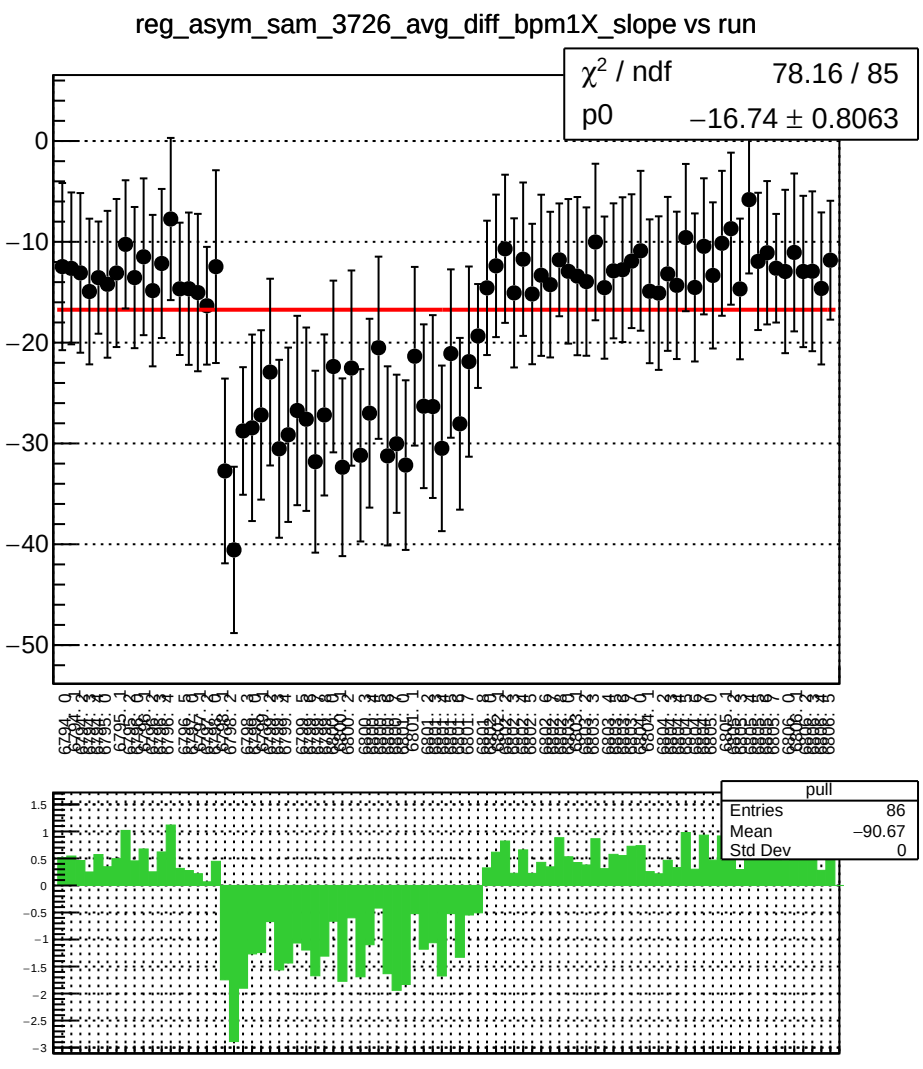

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 100.4 / 85
p0 2.478 ± 0.1758
pull
Entries 86
Mean 366.3
Std Dev 0
pull1D
Entries 86
Mean −0.02949
Std Dev 1.08

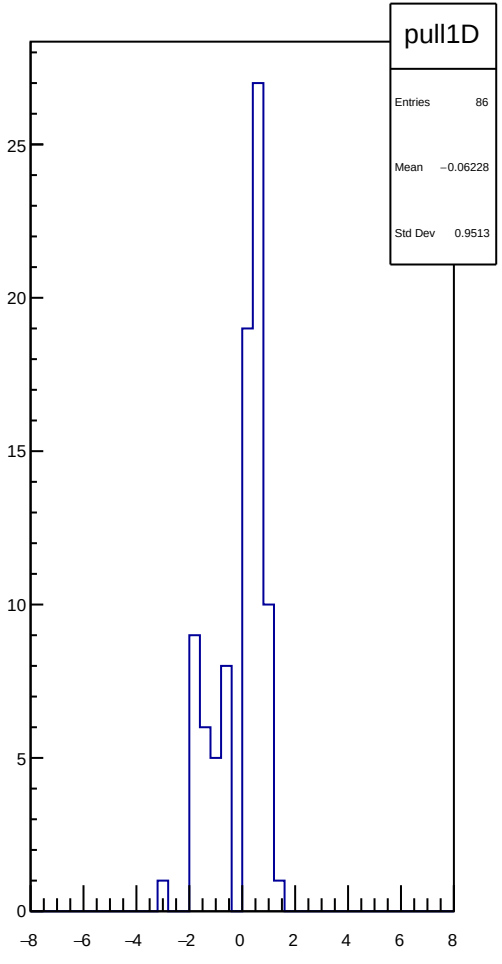

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.2 / 85
p0 −25.36 ± 0.348
pull
Entries 86
Mean −104.8
Std Dev 0
pull1D
Entries 86
Mean 0.05116
Std Dev 1.126

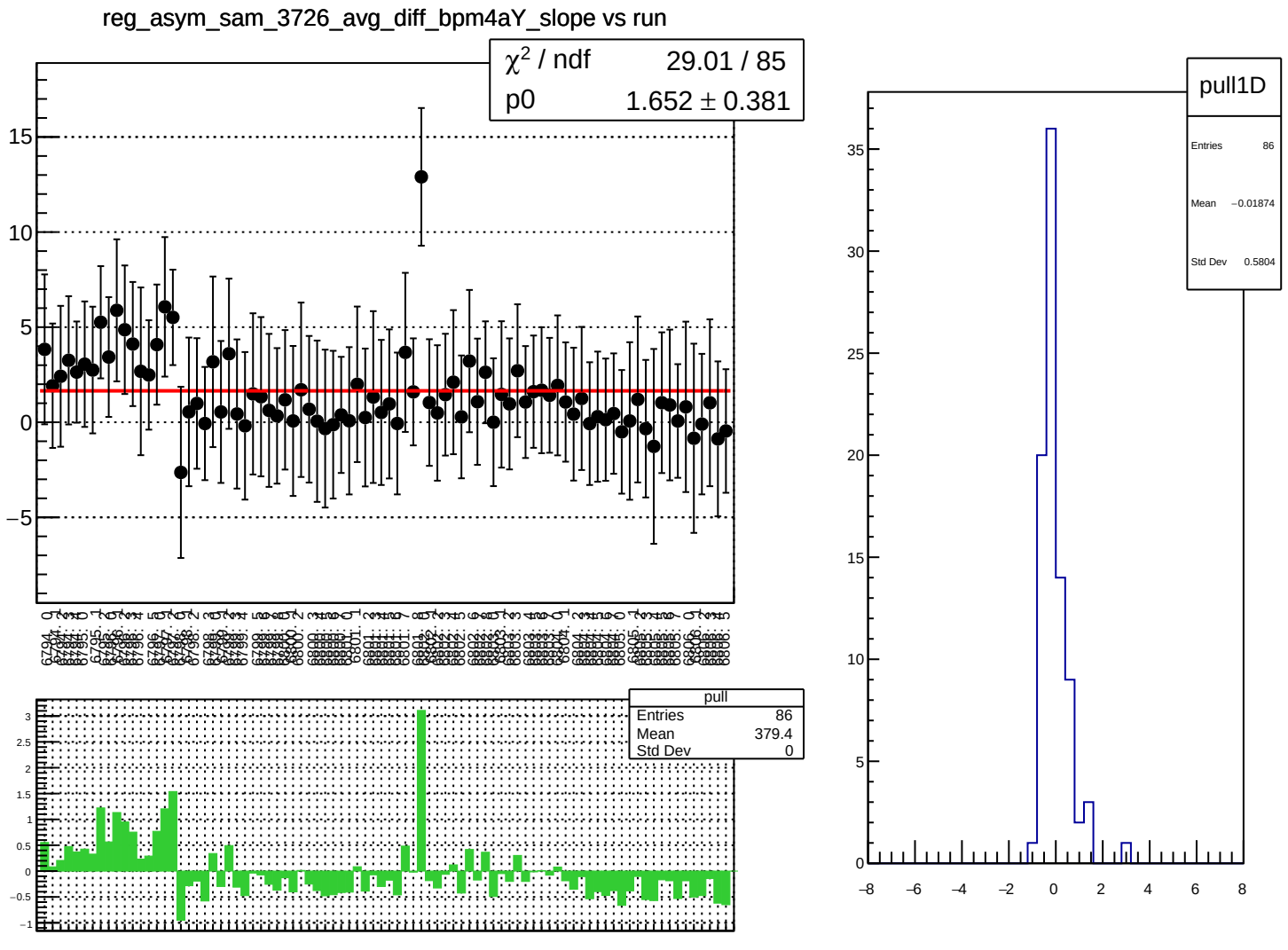

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 97.77 / 85
p0 5.804 ± 0.2448
pull
Entries 86
Mean −2093
Std Dev 0

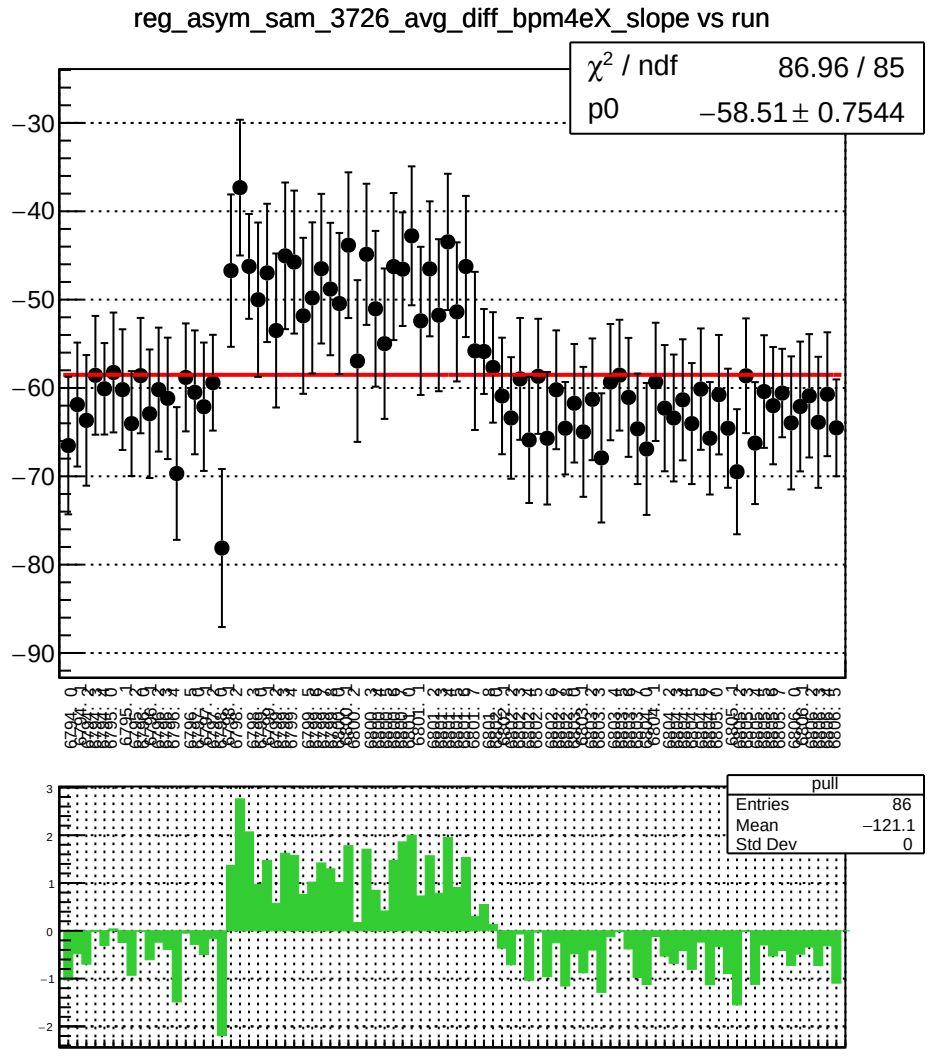

pull1D
Entries 86
Mean −0.006785
Std Dev 1.066

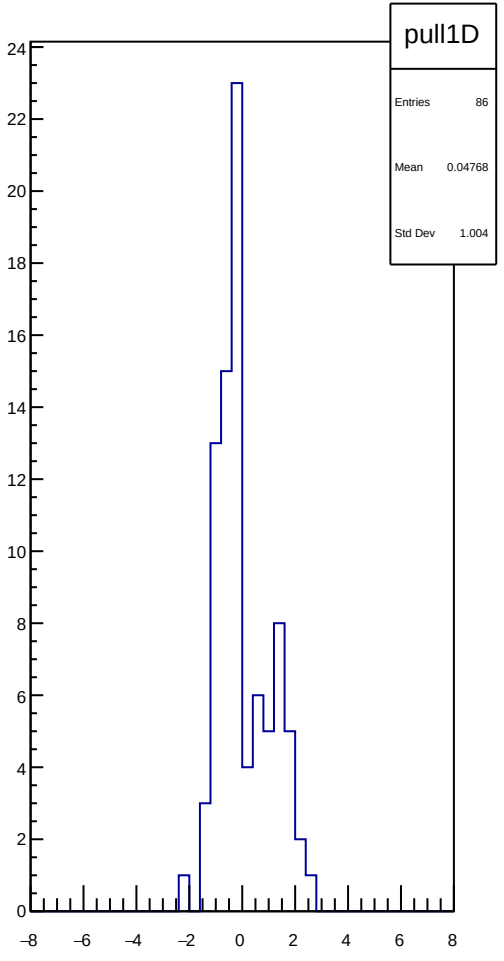

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 8.686 / 85
p0 0.3871± 0.01413
pull
Entries 86
Mean −1290
Std Dev 0
pull1D
Entries 86
Mean 0.001328
Std Dev 0.3178

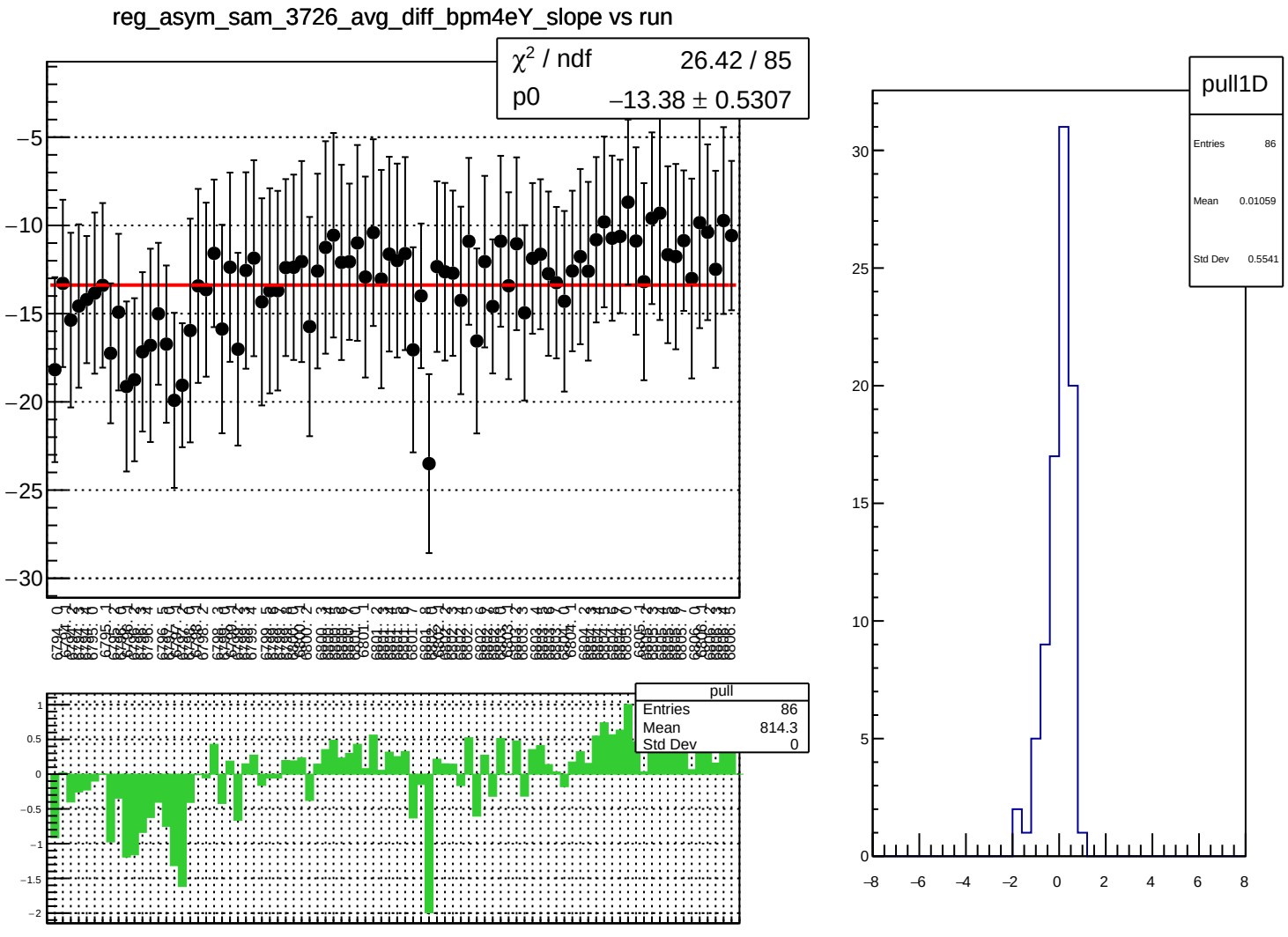

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 78.16 / 85
p0 −16.74 ± 0.8063
pull
Entries 86
Mean −90.67
Std Dev 0

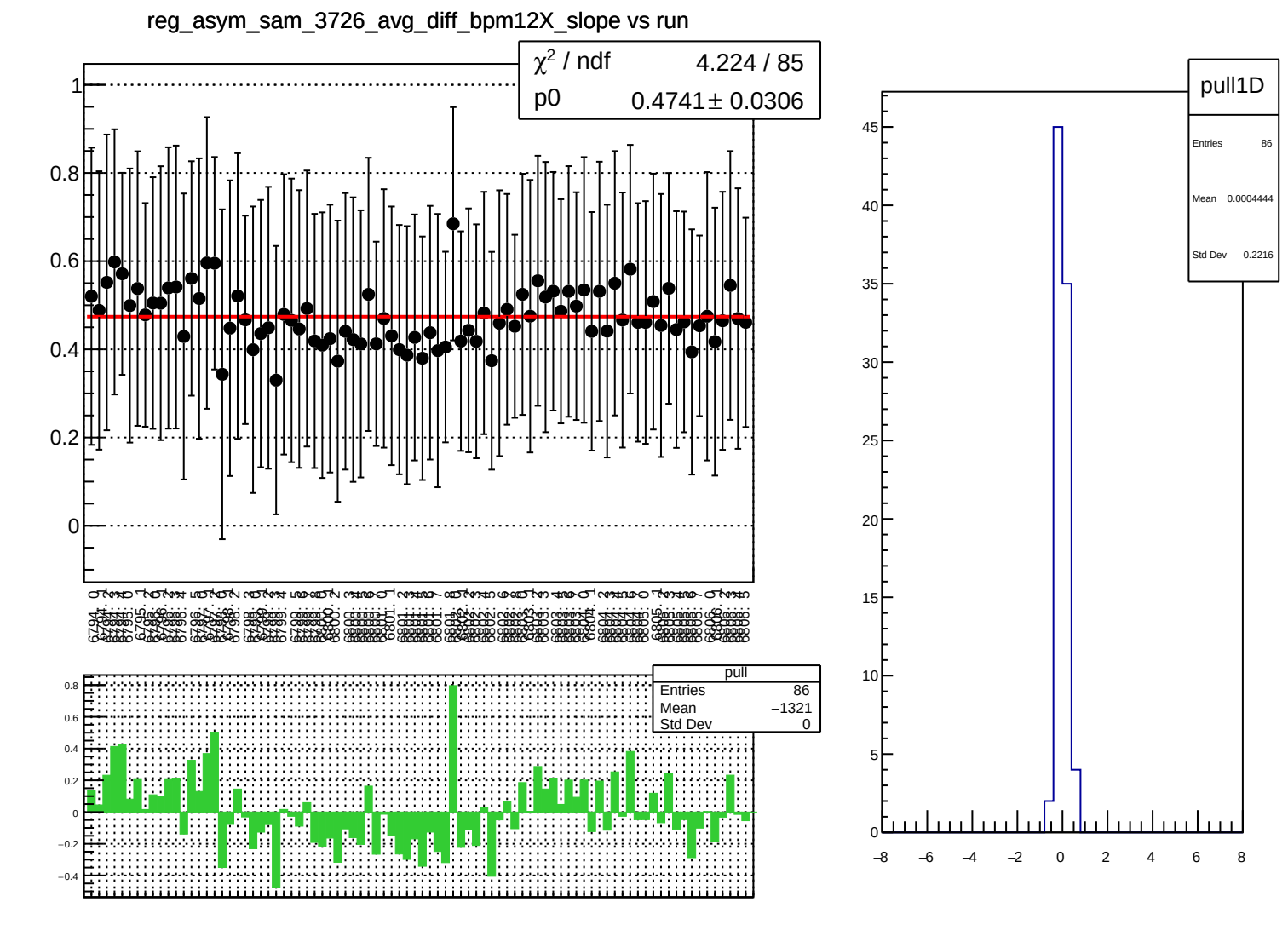

pull1D
Entries 86
Mean −0.06228
Std Dev 0.9513

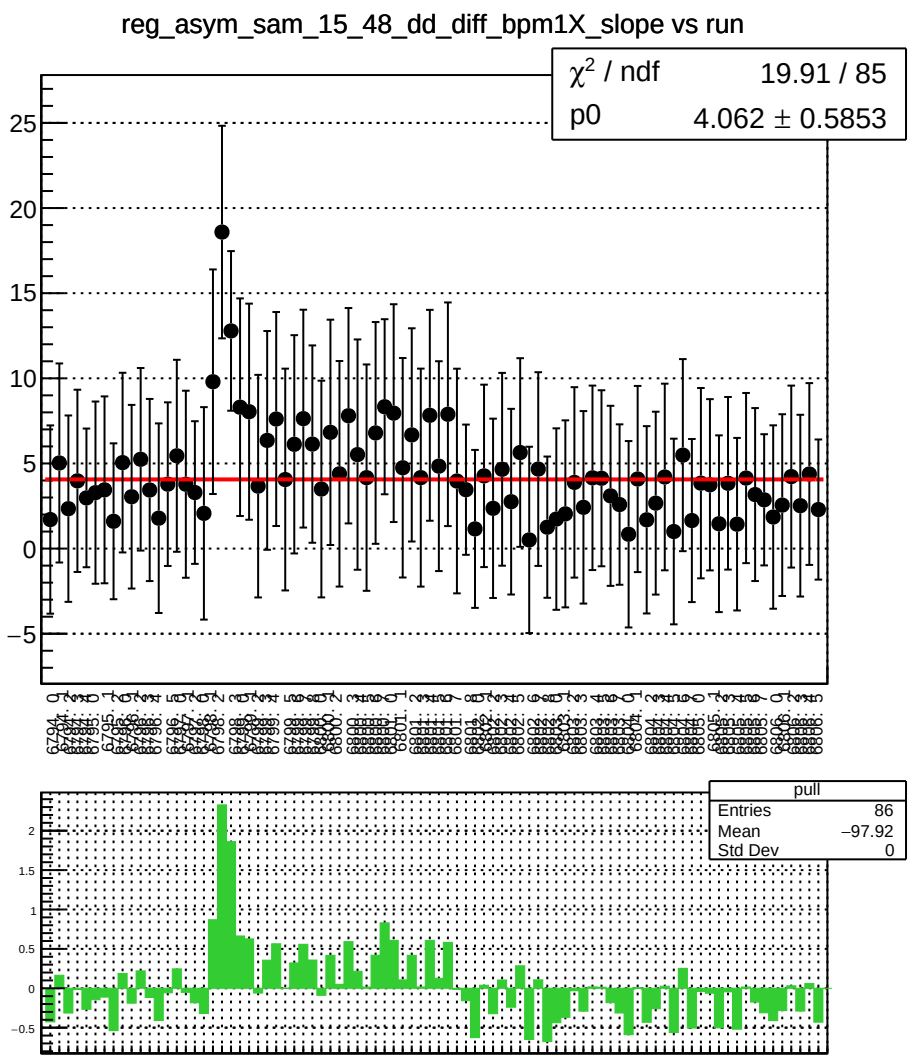

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.01 / 85
p0 1.652 ± 0.381
pull
Entries 86
Mean 379.4
Std Dev 0
pull1D
Entries 86
Mean −0.01874
Std Dev 0.5804

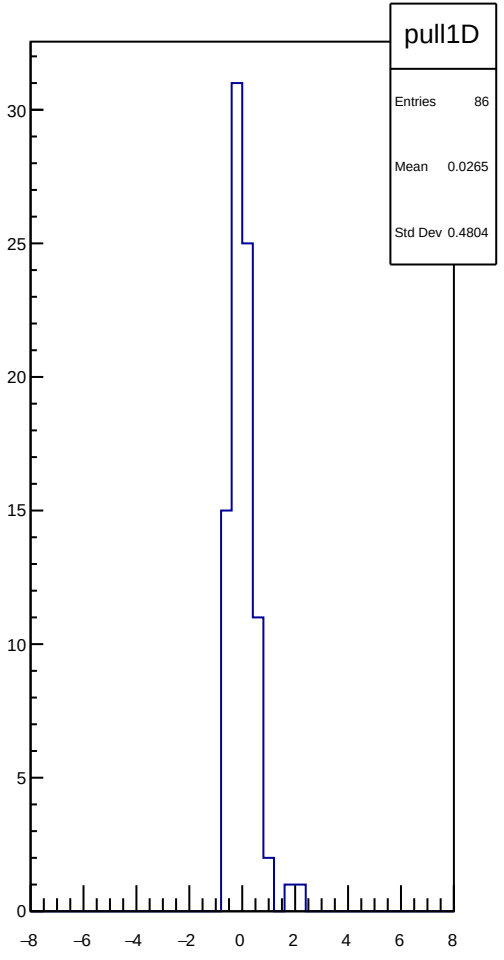

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.96 / 85
p0 −58.51 ± 0.7544
pull
Entries 86
Mean −121.1
Std Dev 0

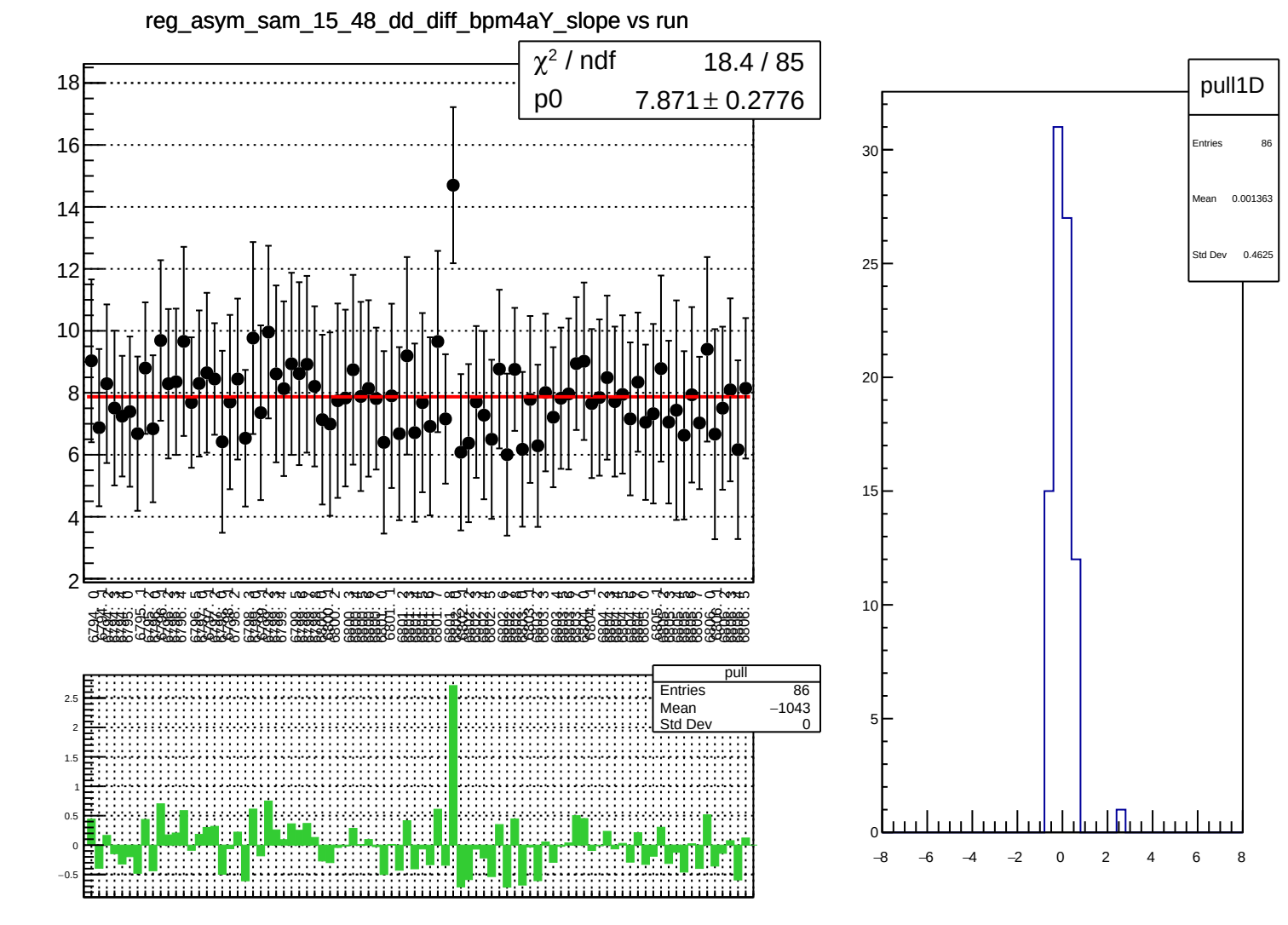

pull1D
Entries 86
Mean 0.04768
Std Dev 1.004

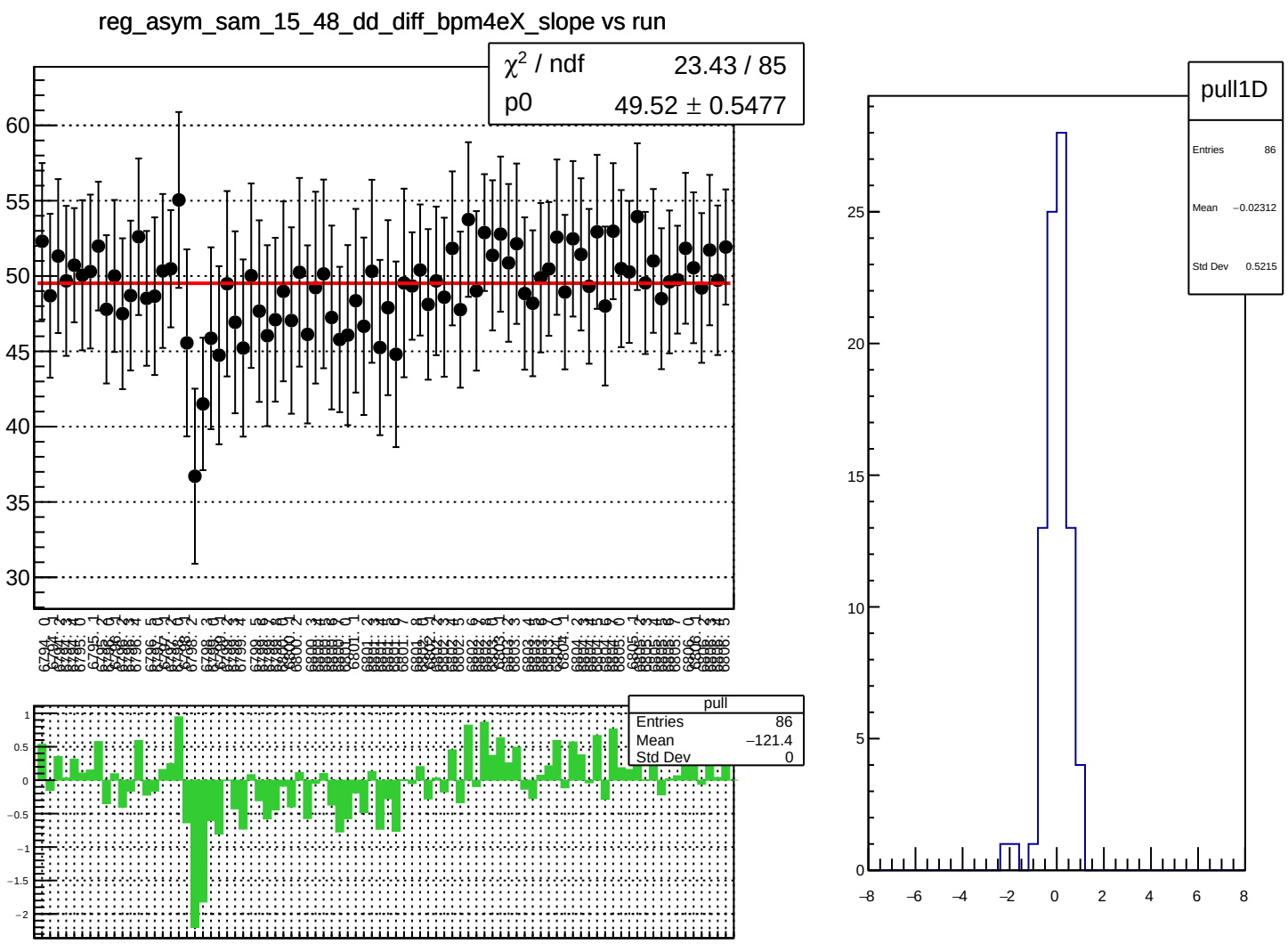

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.42 / 85
p0 −13.38 ± 0.5307
pull
Entries 86
Mean 814.3
Std Dev 0
pull1D
Entries 86
Mean 0.01059
Std Dev 0.5541

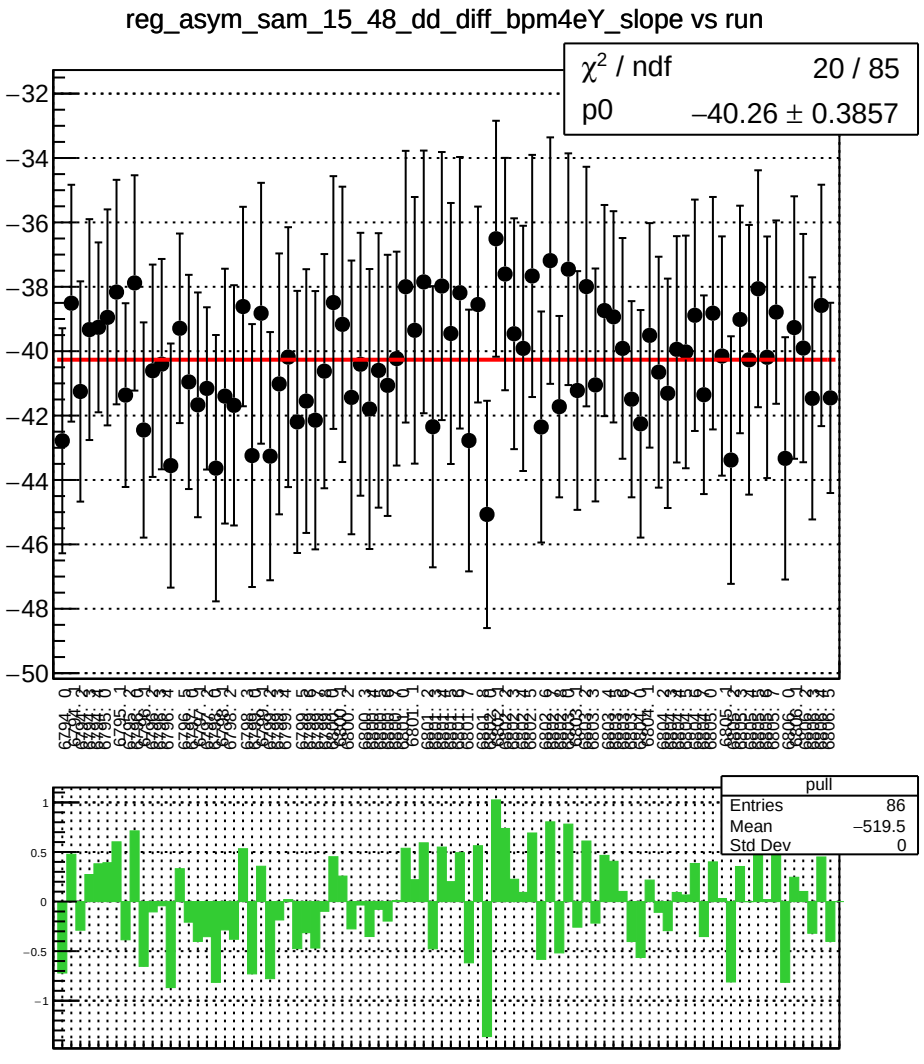

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 4.224 / 85
p0 0.4741± 0.0306
pull
Entries 86
Mean −1321
Std Dev 0
pull1D
Entries 86
Mean 0.0004444
Std Dev 0.2216

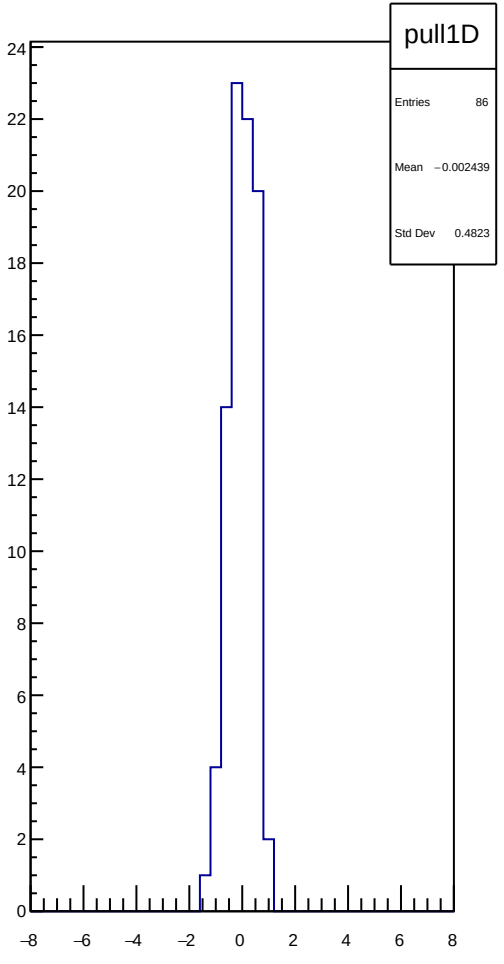

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 19.91 / 85
p0 4.062 ± 0.5853
pull
Entries 86
Mean −97.92
Std Dev 0

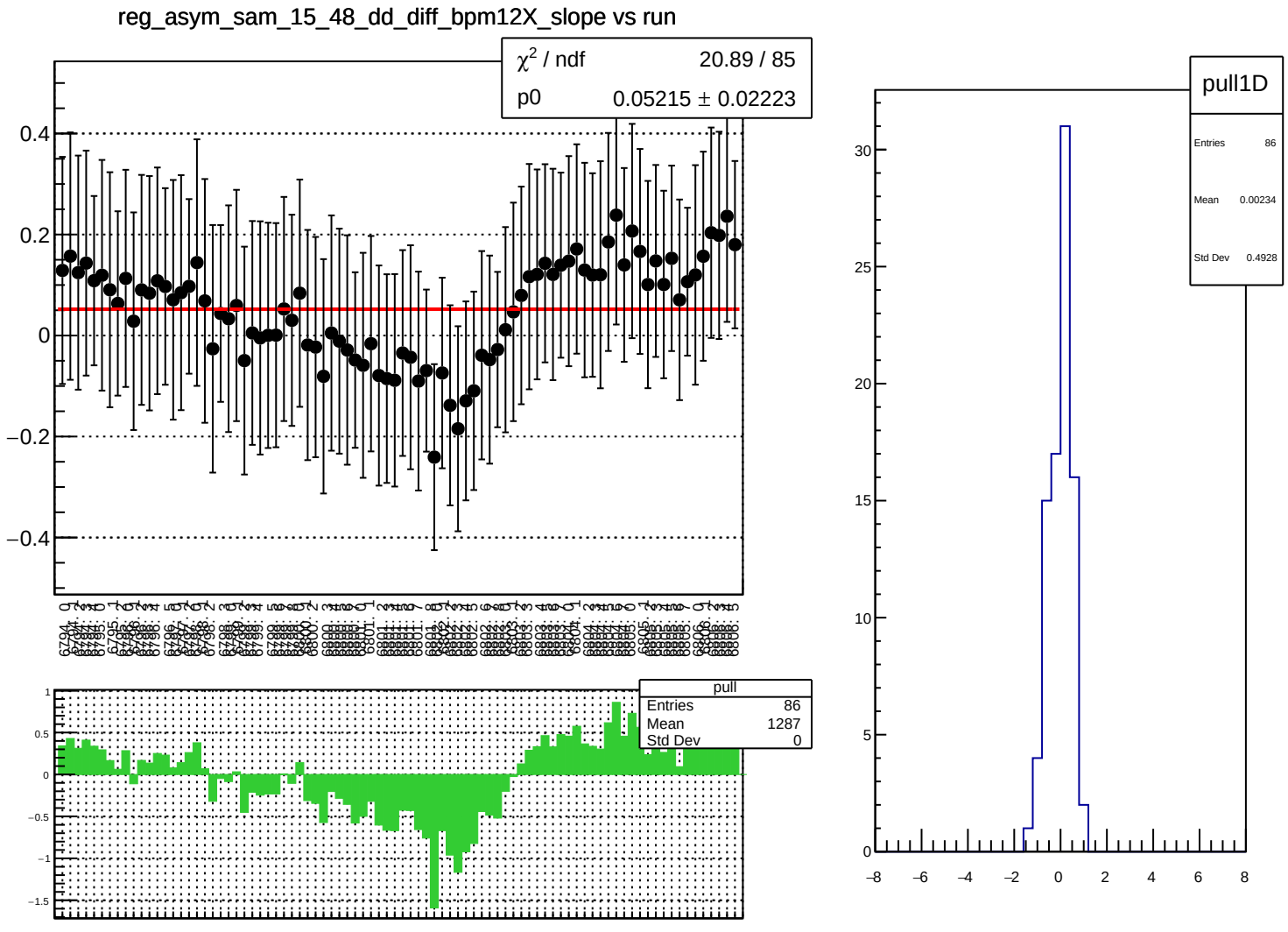

pull1D
Entries 86
Mean 0.0265
Std Dev 0.4804

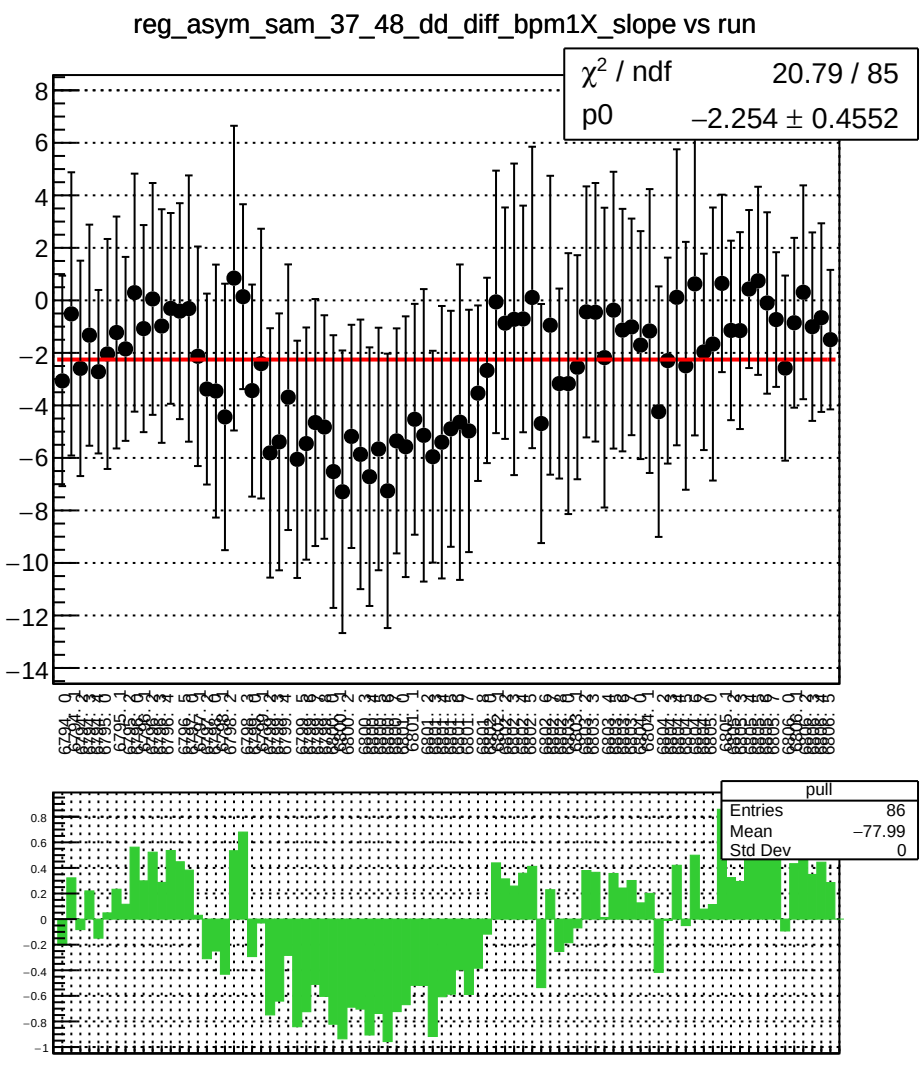

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.4 / 85
p0 7.871 ± 0.2776
pull
Entries 86
Mean −1043
Std Dev 0
pull1D
Entries 86
Mean 0.001363
Std Dev 0.4625

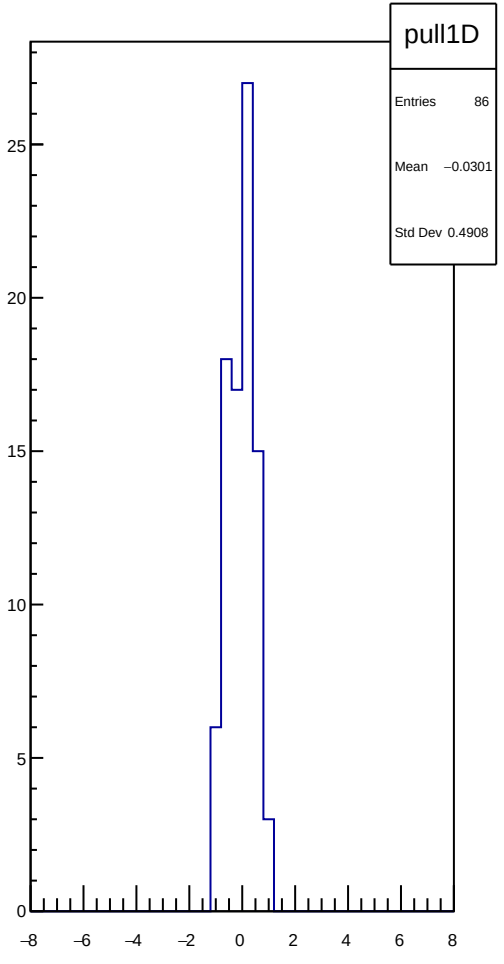

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.43 / 85
p0 49.52 ± 0.5477
pull
Entries 86
Mean −121.4
Std Dev 0
pull1D
Entries 86
Mean −0.02312
Std Dev 0.5215

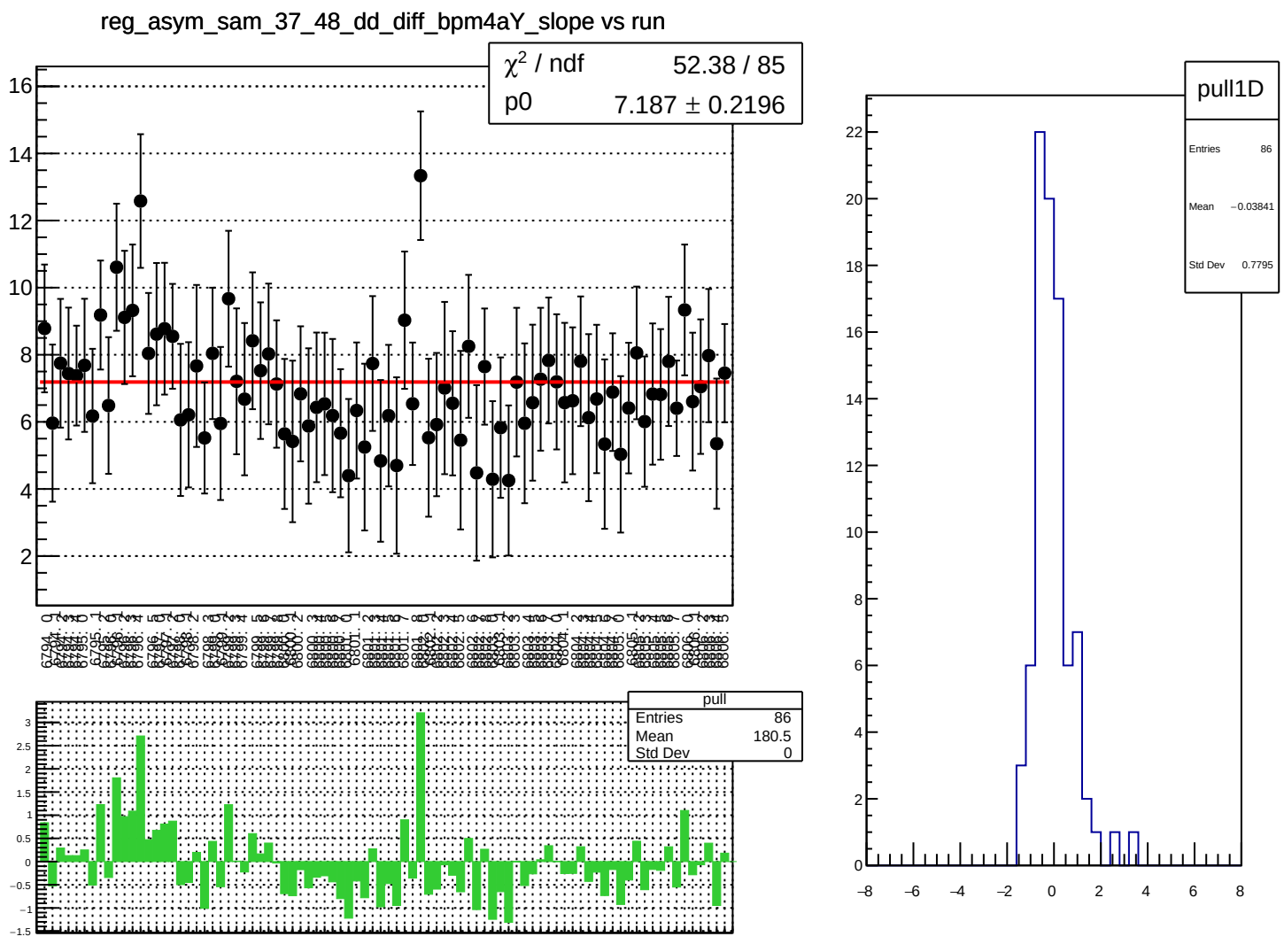

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20 / 85
p0 −40.26 ± 0.3857
pull
Entries 86
Mean −519.5
Std Dev 0

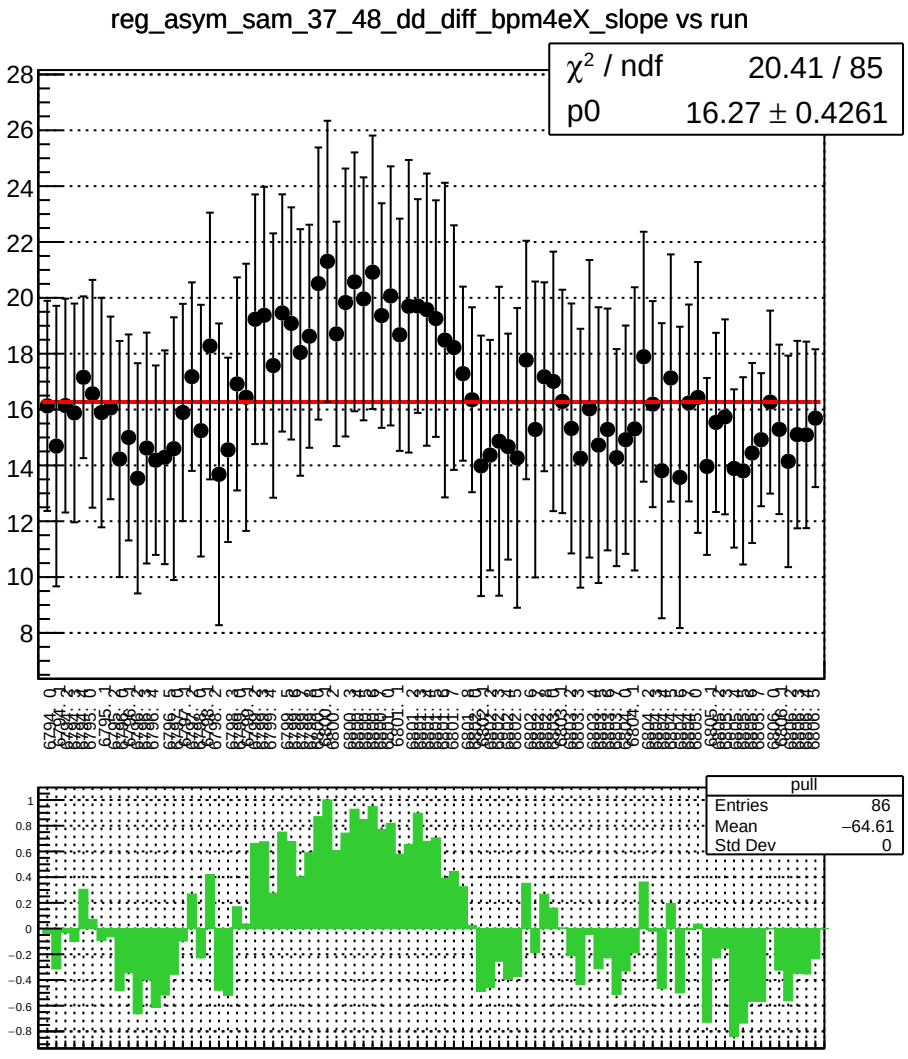

pull1D
Entries 86
Mean −0.002439
Std Dev 0.4823

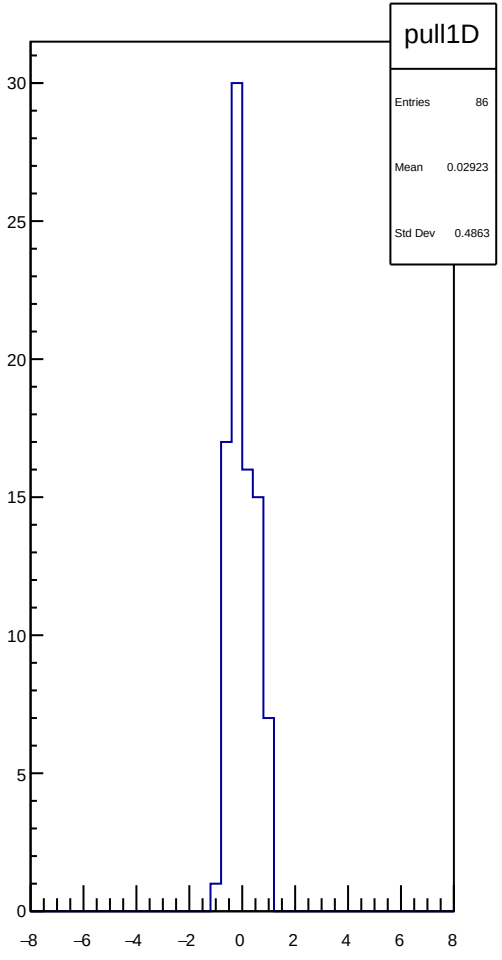

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 20.89 / 85
p0 0.05215 ± 0.02223
0.4
0.2
0
−0.2
−0.4
pull
Entries 86
Mean 1287
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.00234
Std Dev 0.4928
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

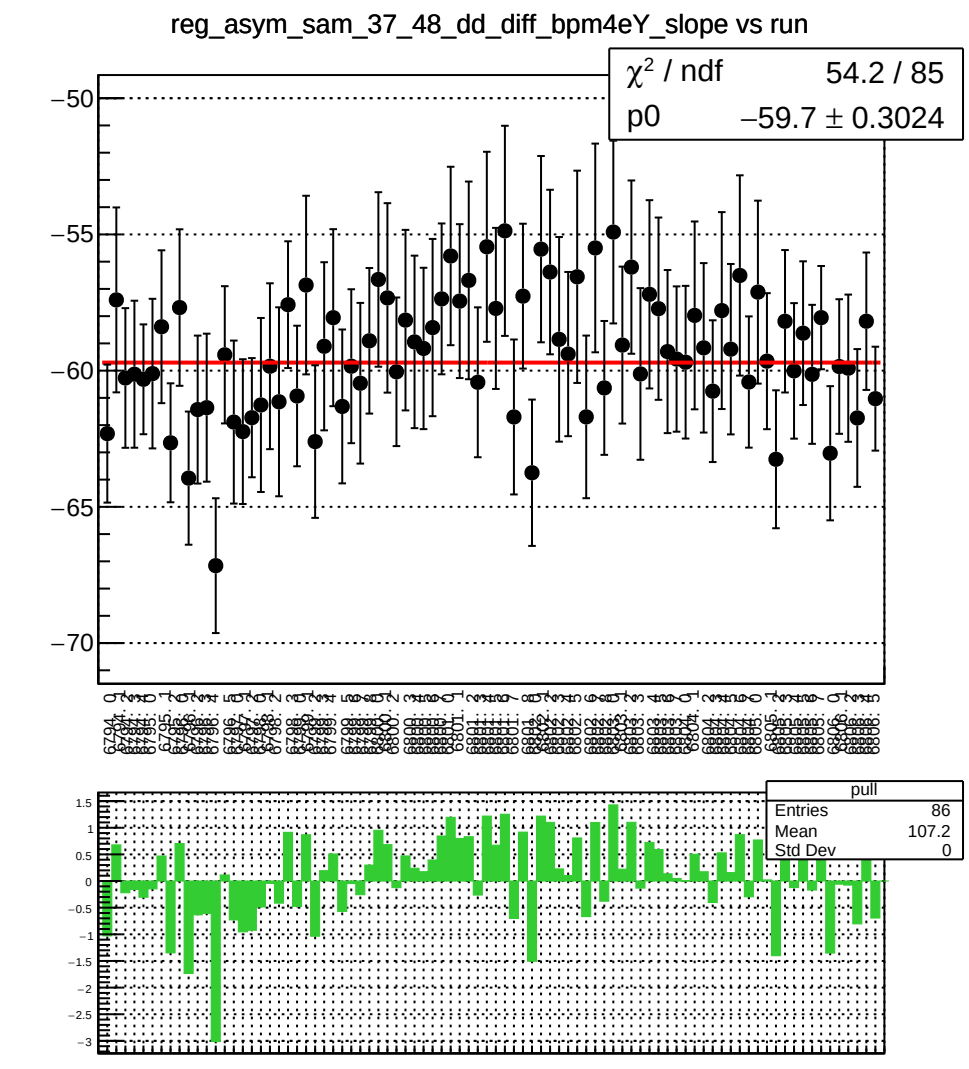

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 20.79 / 85
p0 −2.254 ± 0.4552
pull
Entries 86
Mean −77.99
Std Dev 0

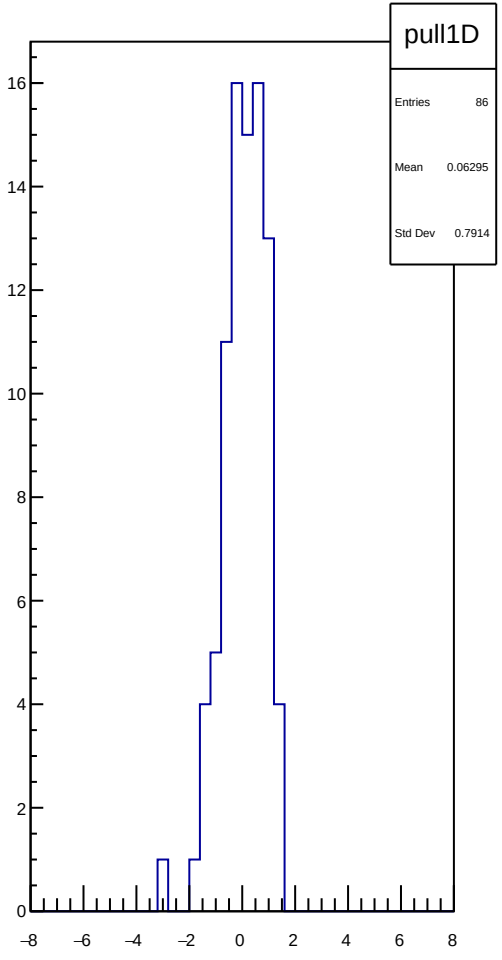

pull1D
Entries 86
Mean −0.0301
Std Dev 0.4908

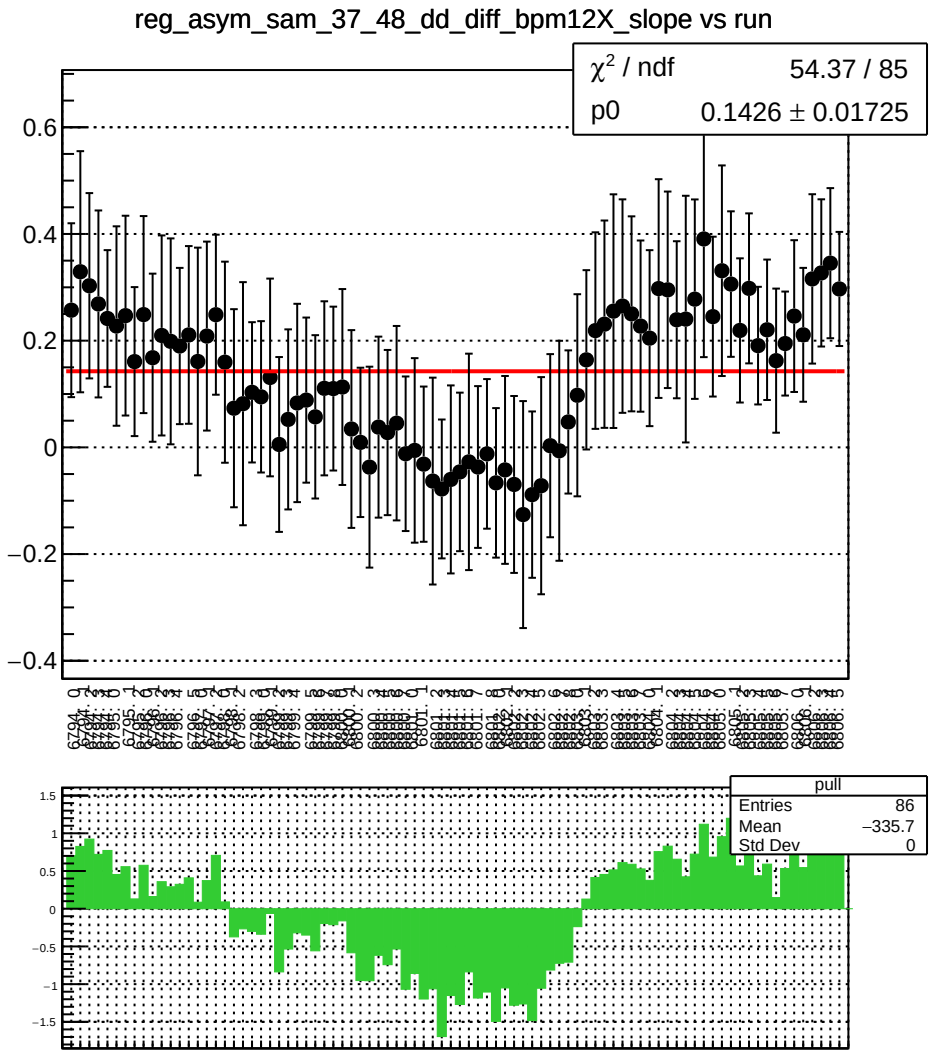

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.38 / 85
p0 7.187 ± 0.2196
pull
Entries 86
Mean 180.5
Std Dev 0
pull1D
Entries 86
Mean −0.03841
Std Dev 0.7795

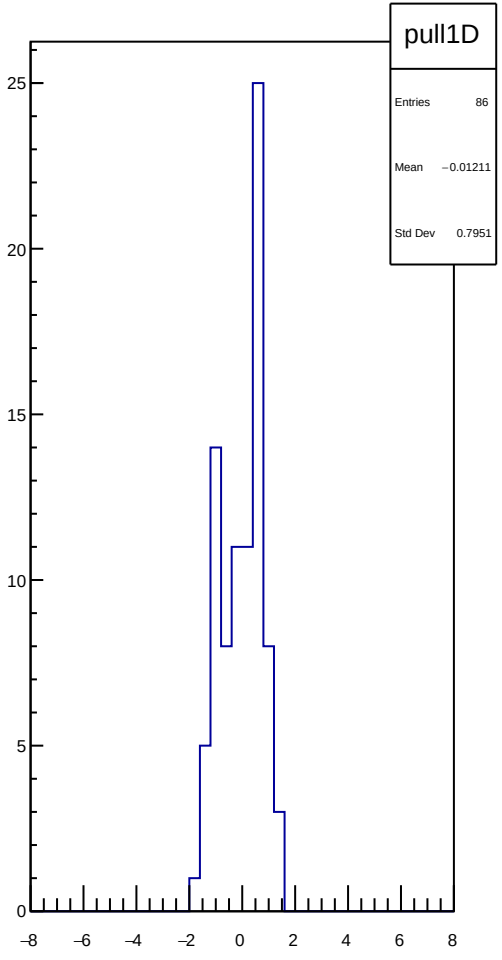

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.41 / 85
p0 16.27 ± 0.4261
pull
Entries 86
Mean −64.61
Std Dev 0

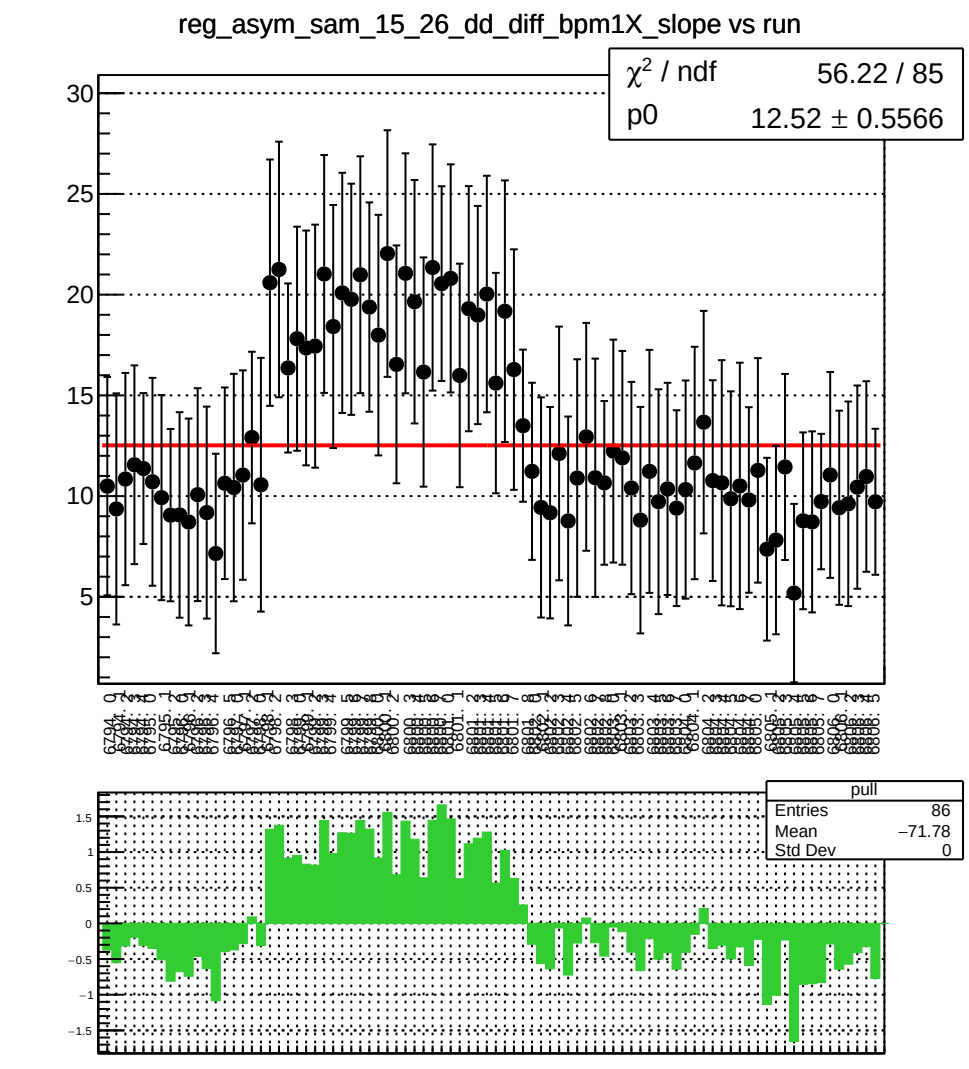

pull1D
Entries 86
Mean 0.02923
Std Dev 0.4863

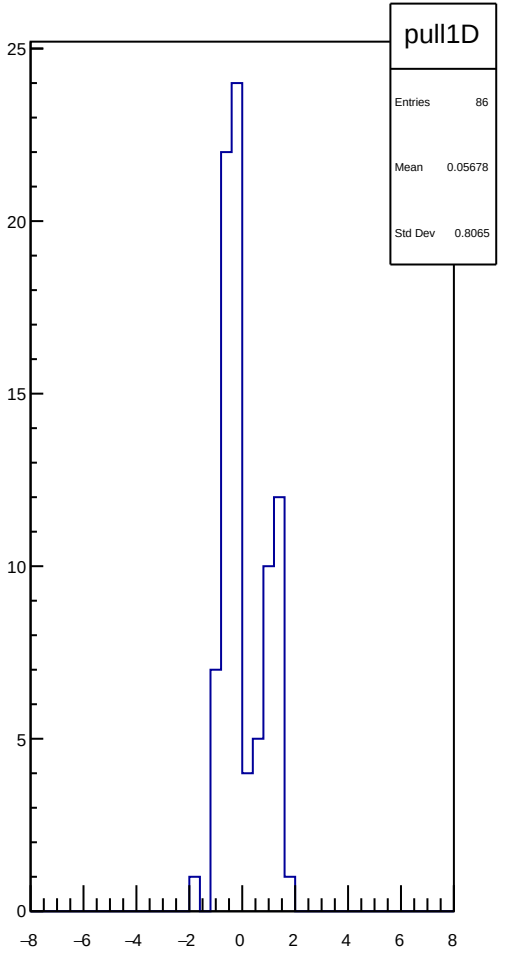

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.2 / 85
p0 −59.7 ± 0.3024
pull
Entries 86
Mean 107.2
Std Dev 0

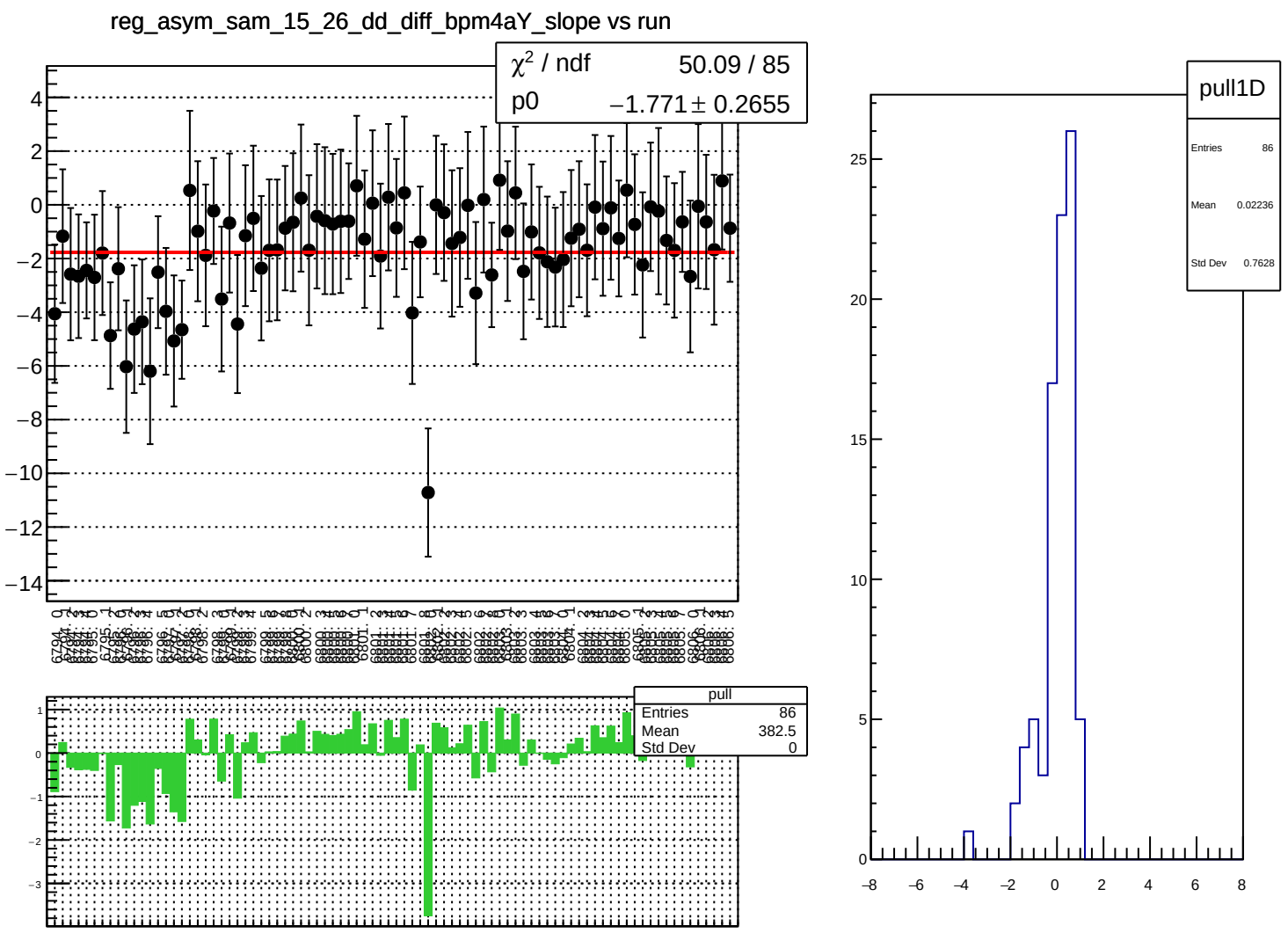

pull1D
Entries 86
Mean 0.06295
Std Dev 0.7914

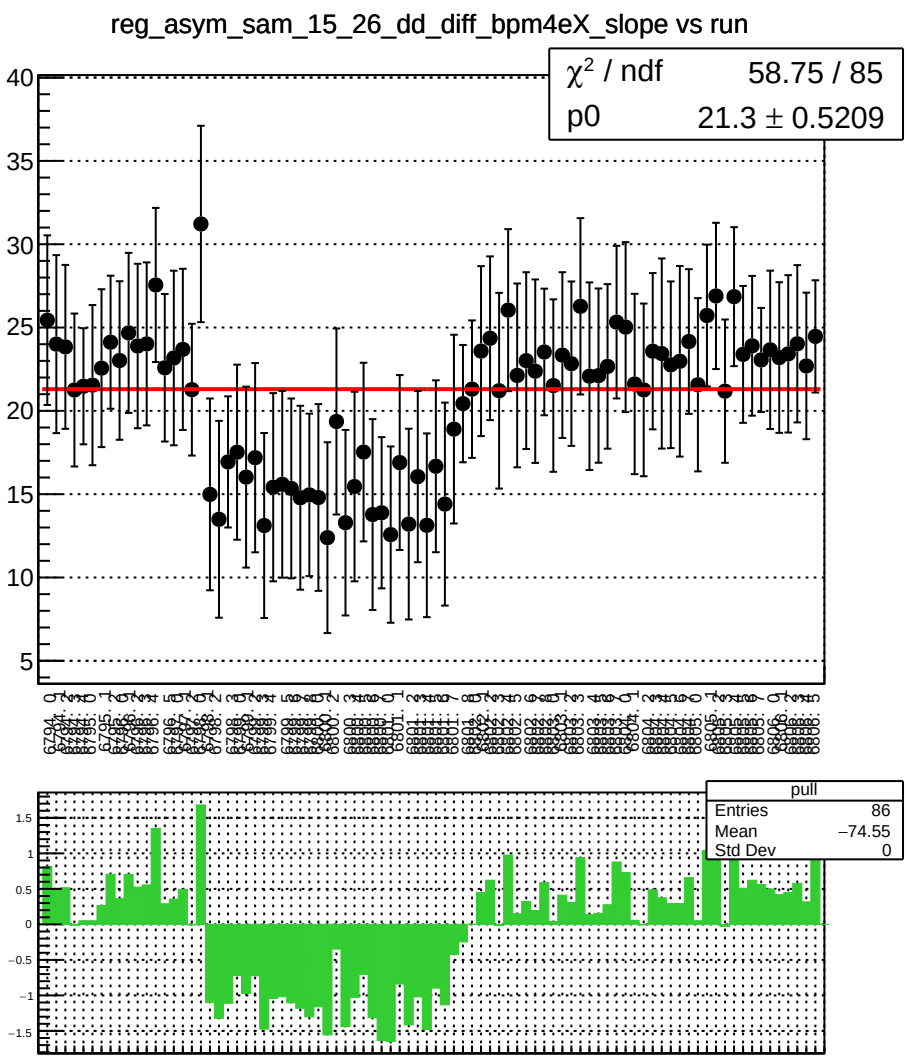

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 54.37 / 85
p0 0.1426 ± 0.01725
pull
Entries 86
Mean −335.7
Std Dev 0

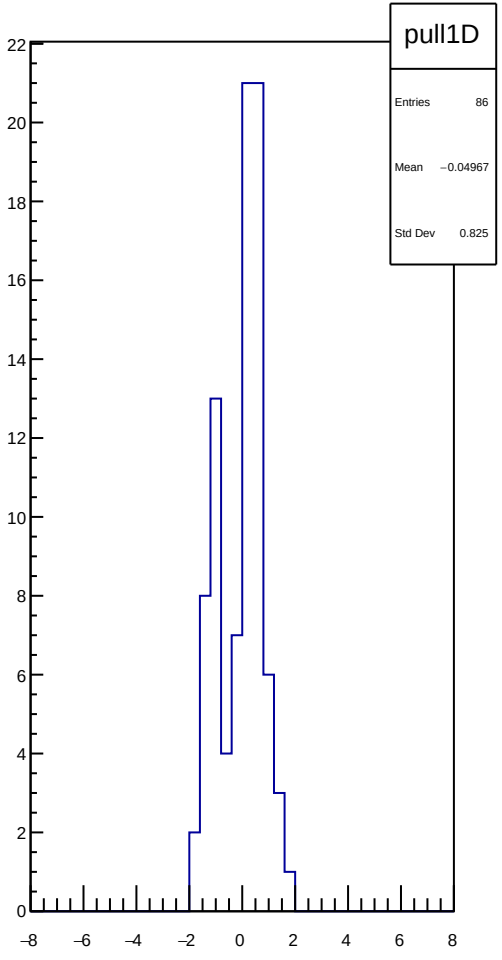

pull1D
Entries 86
Mean −0.01211
Std Dev 0.7951

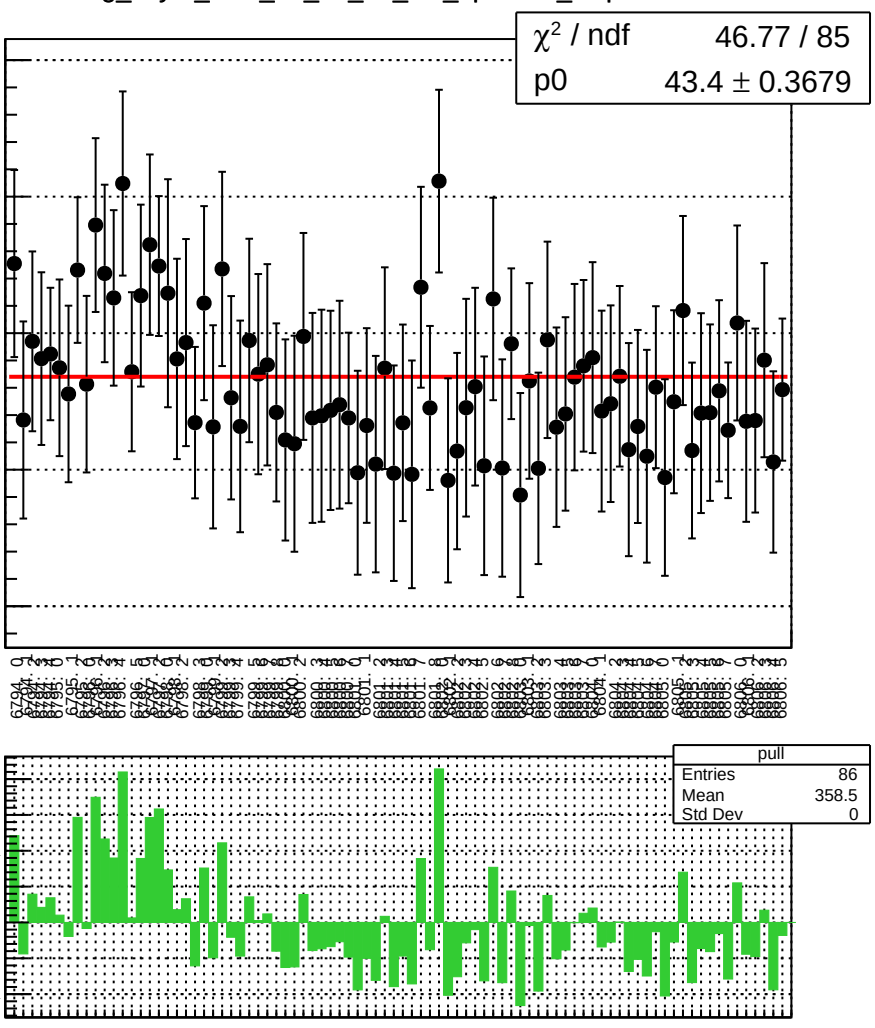

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 56.22 / 85
p0 12.52 ± 0.5566
pull
Entries 86
Mean −71.78
Std Dev 0

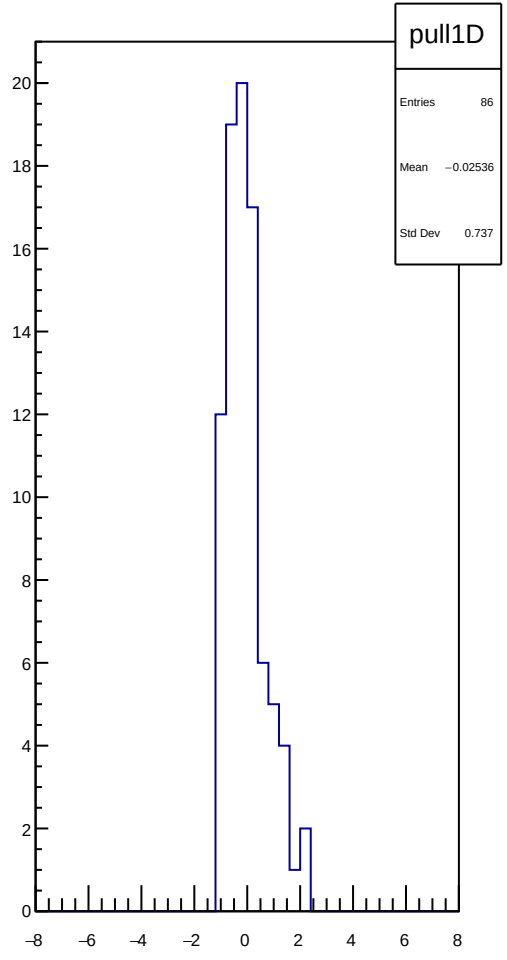

pull1D
Entries 86
Mean 0.05678
Std Dev 0.8065

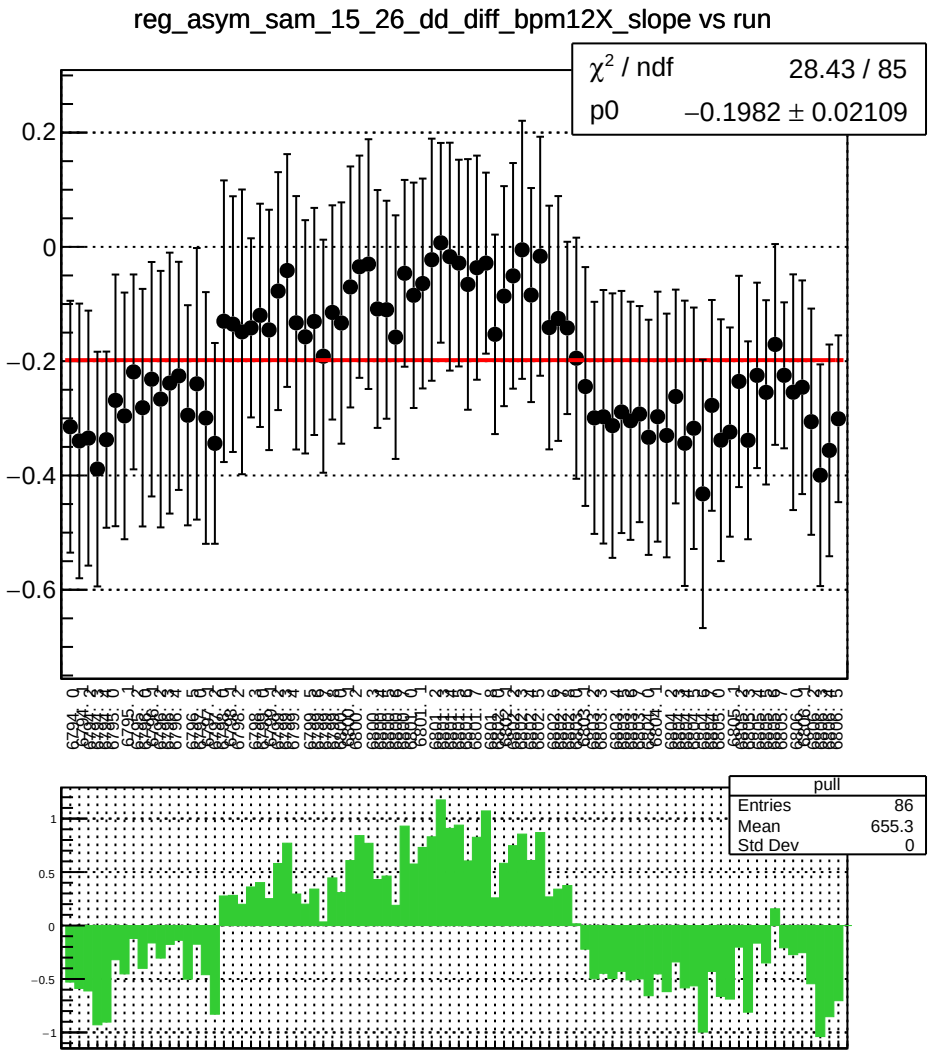

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.09 / 85
p0 −1.771 ± 0.2655
pull
Entries 86
Mean 382.5
Std Dev 0
pull1D
Entries 86
Mean 0.02236
Std Dev 0.7628

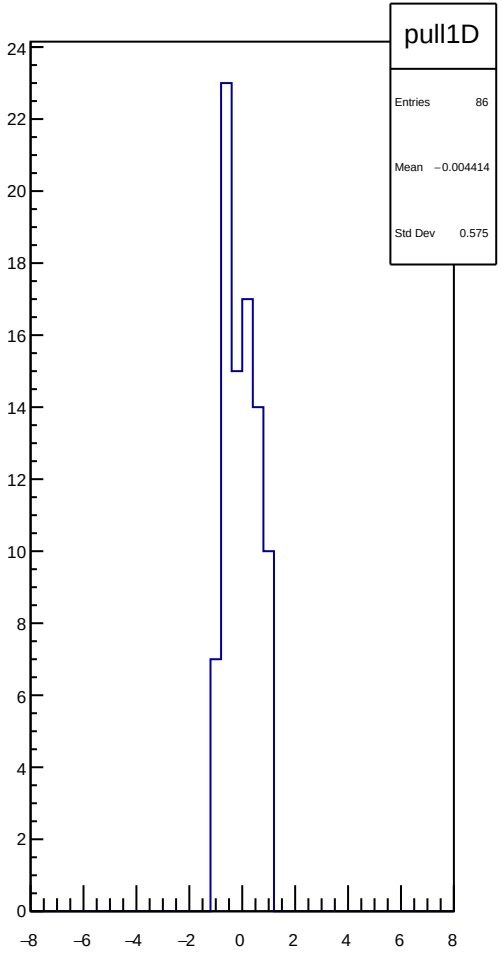

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.75 / 85
p0 21.3 ± 0.5209
pull
Entries 86
Mean −74.55
Std Dev 0

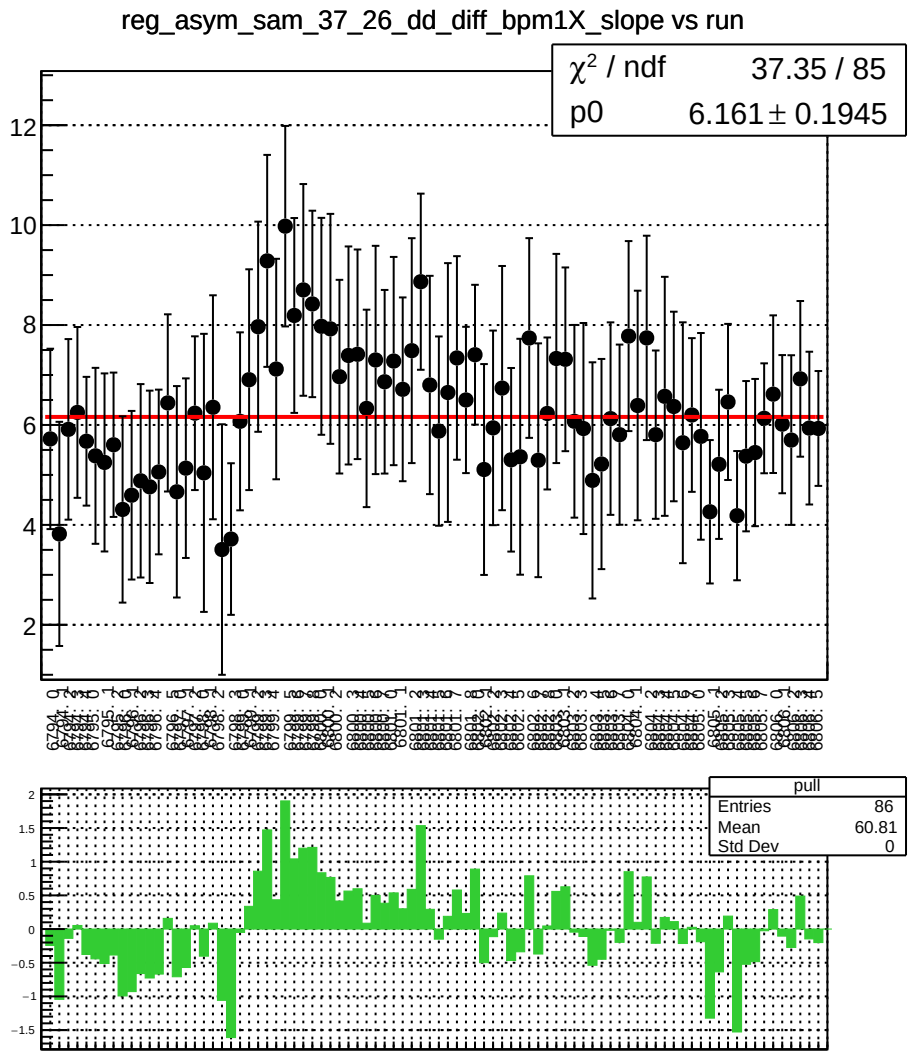

pull1D
Entries 86
Mean −0.04967
Std Dev 0.825

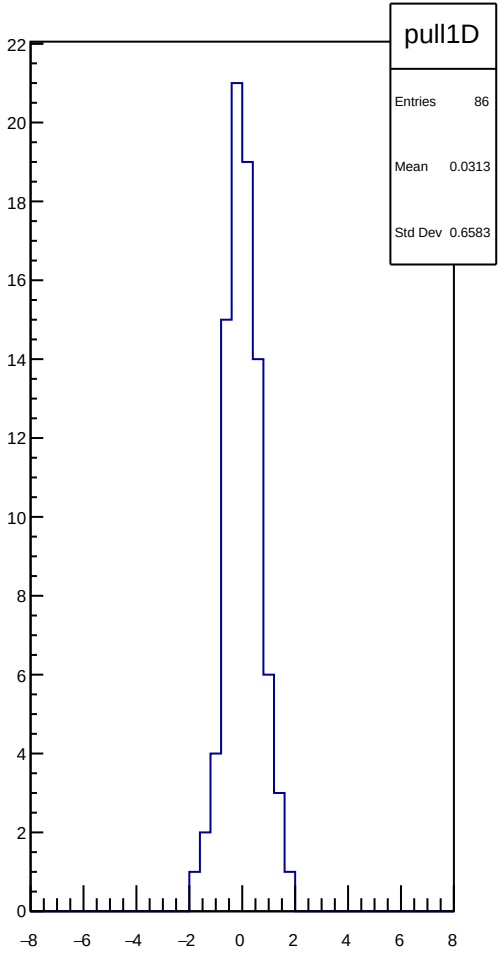

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 46.77 / 85
p0 43.4 ± 0.3679
55
50
45
40
35
pull
Entries 86
Mean 358.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

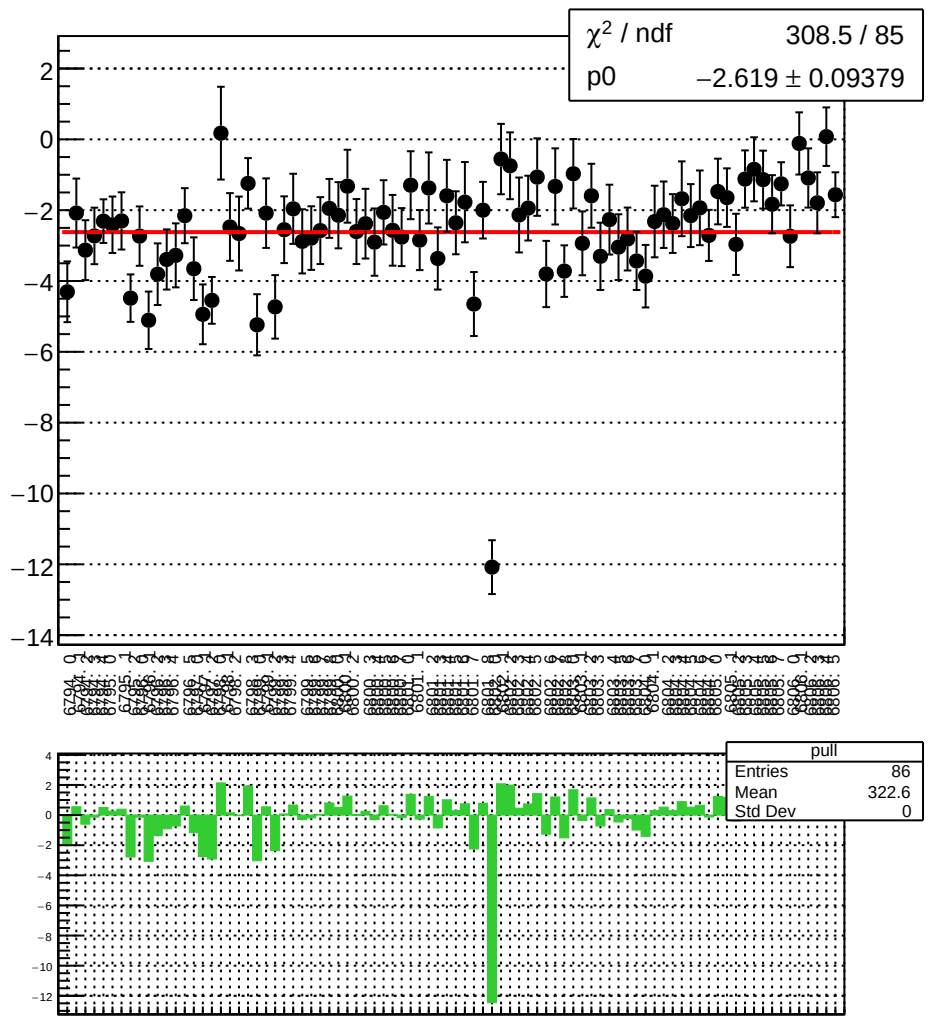

pull1D
Entries 86
Mean −0.02536
Std Dev 0.737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

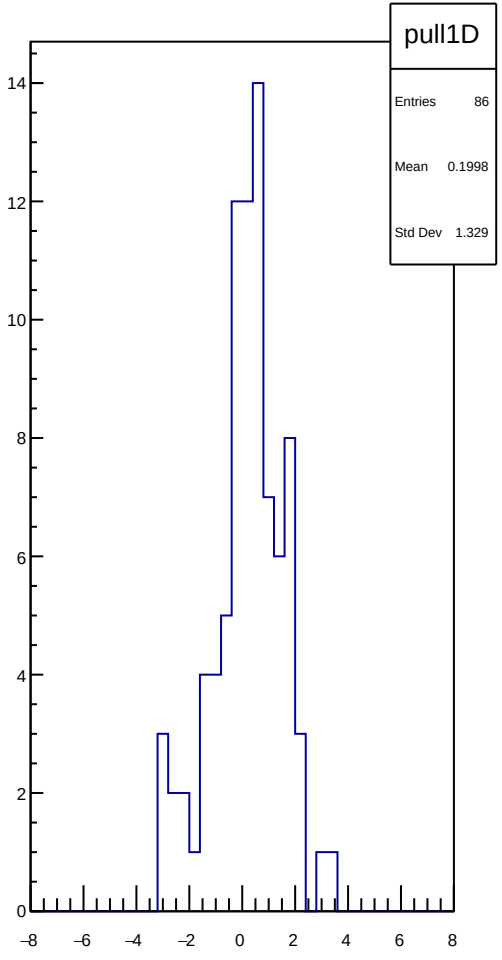

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 28.43 / 85
p0 −0.1982 ± 0.02109
pull
Entries 86
Mean 655.3
Std Dev 0

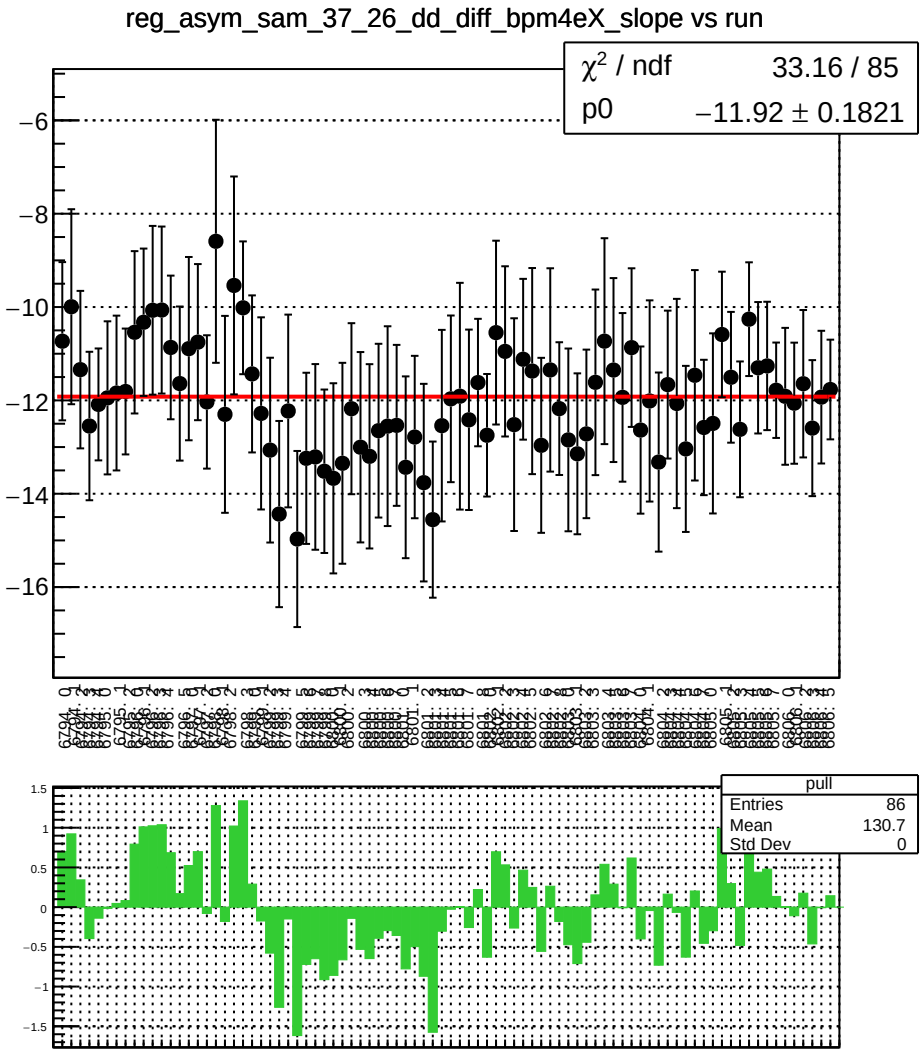

pull1D
Entries 86
Mean −0.004414
Std Dev 0.575

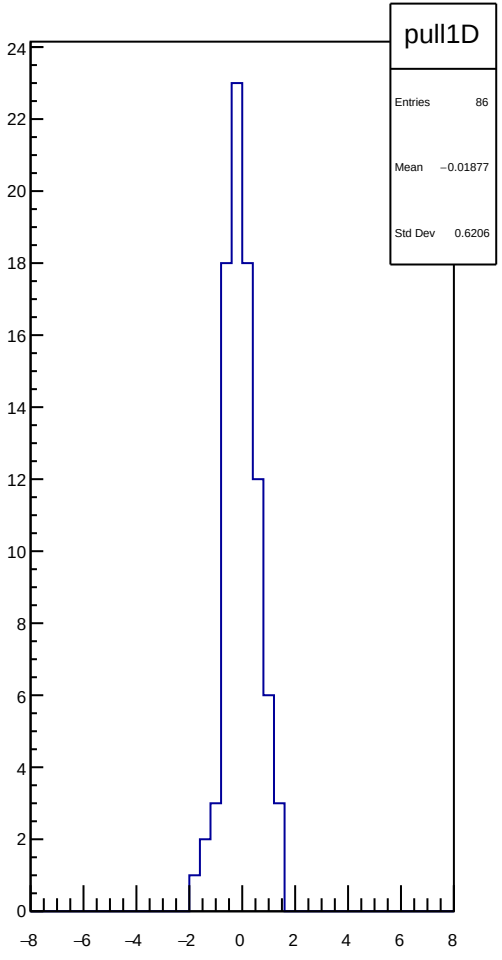

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 37.35 / 85
p0 6.161 ± 0.1945
pull
Entries 86
Mean 60.81
Std Dev 0

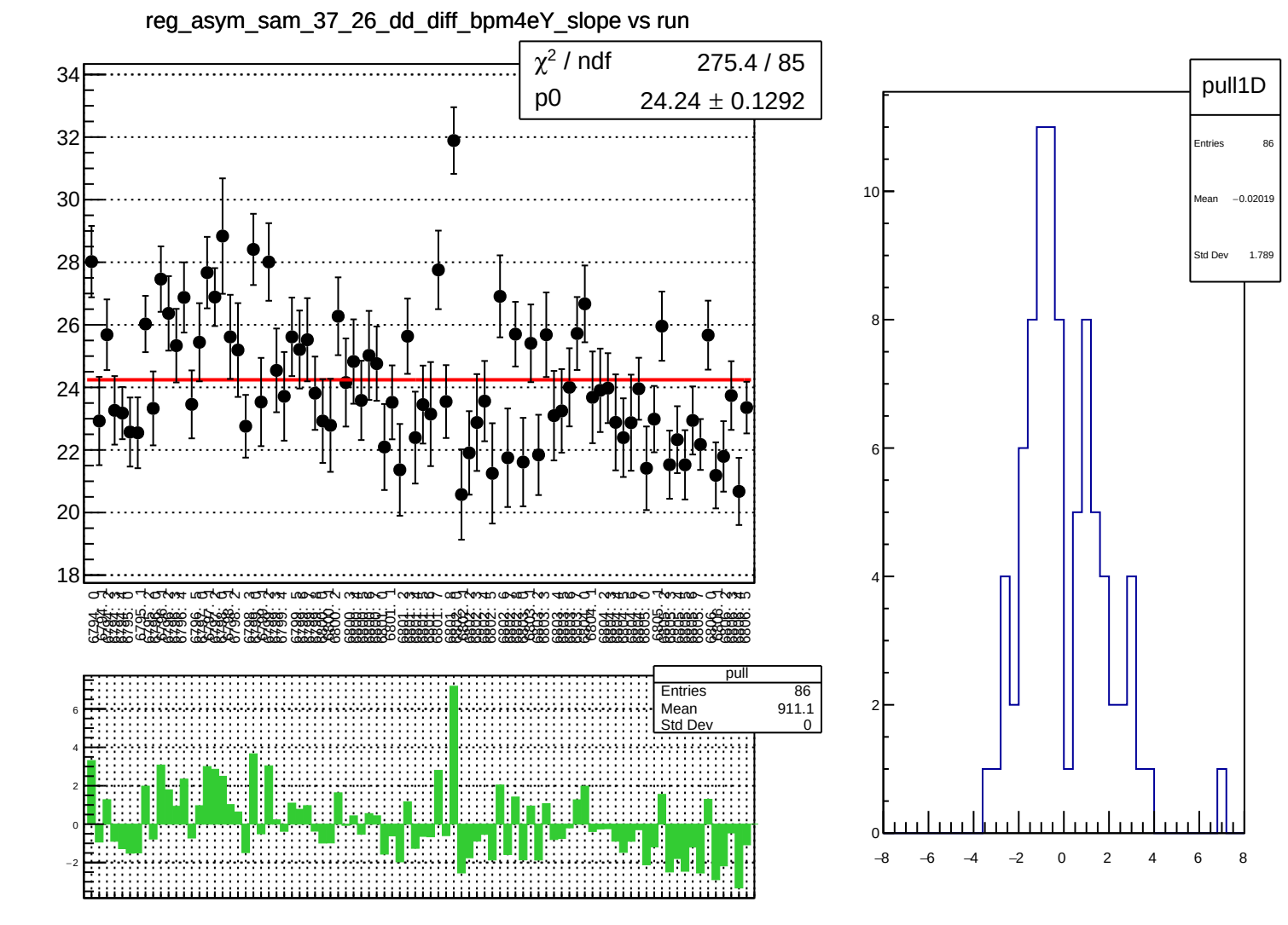

pull1D
Entries 86
Mean 0.0313
Std Dev 0.6583

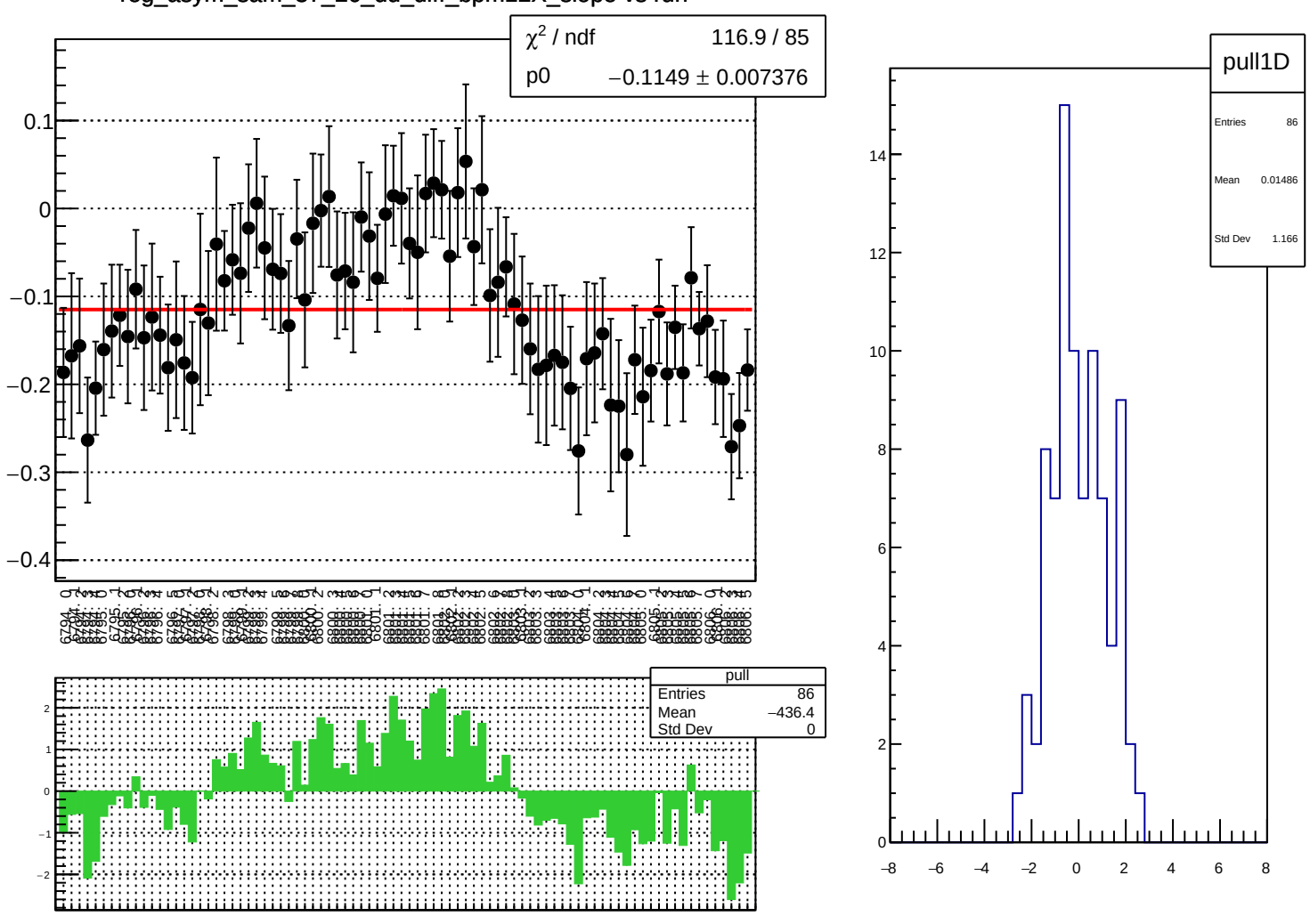

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 308.5 / 85
p0 −2.619 ± 0.09379
pull
Entries 86
Mean 322.6
Std Dev 0

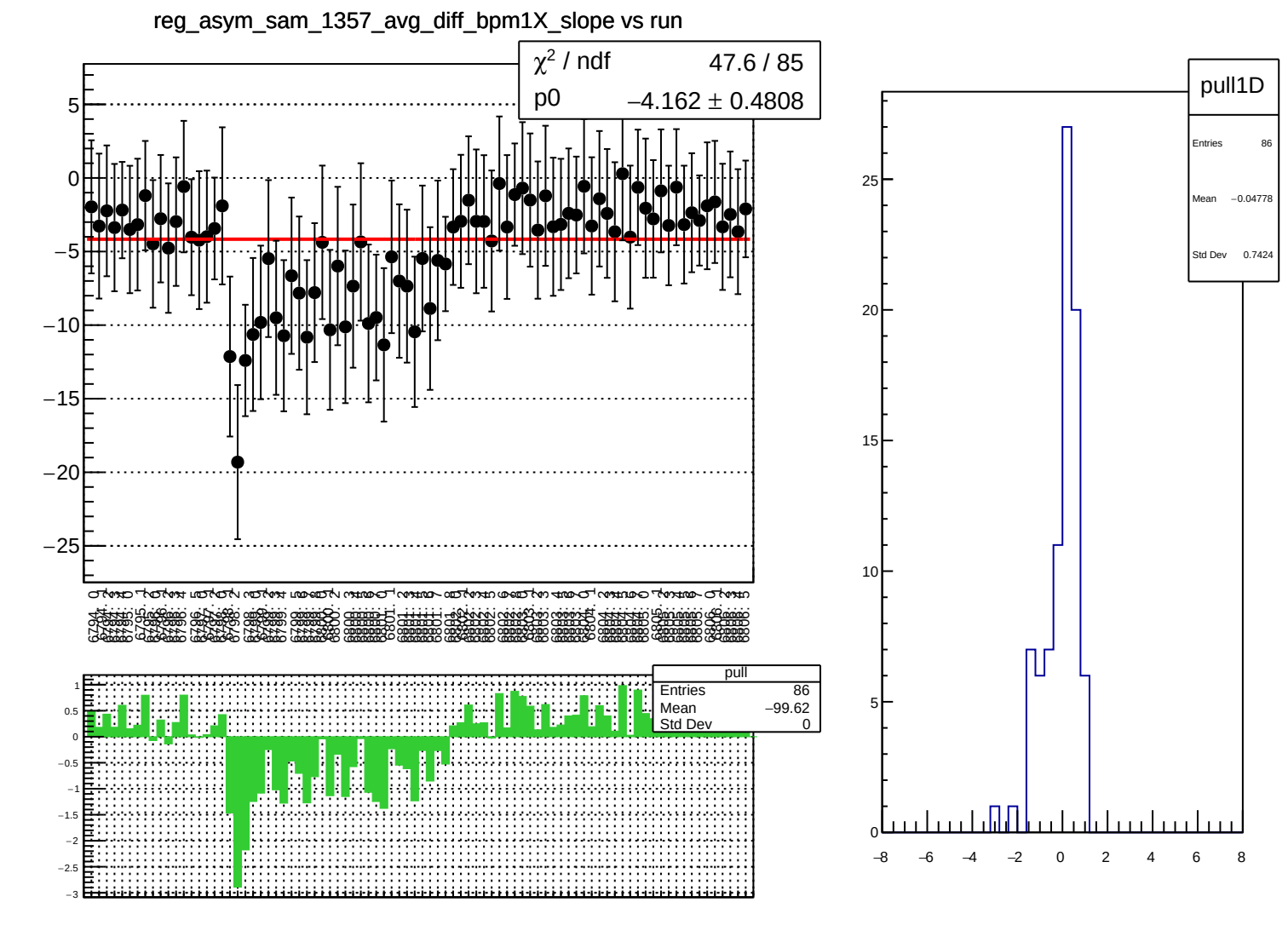

pull1D
Entries 86
Mean 0.1998
Std Dev 1.329

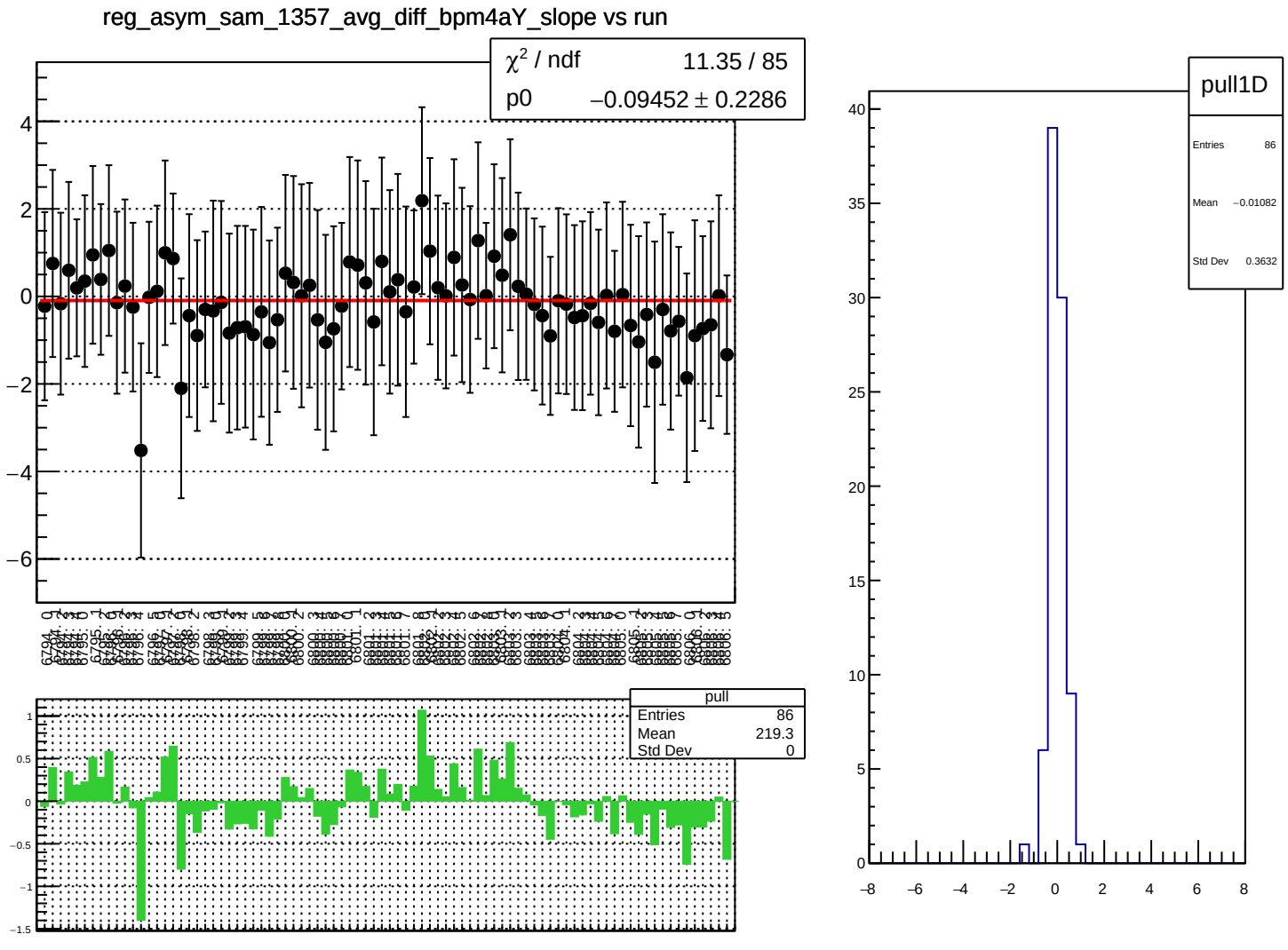

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 33.16 / 85
p0 −11.92 ± 0.1821
pull
Entries 86
Mean 130.7
Std Dev 0

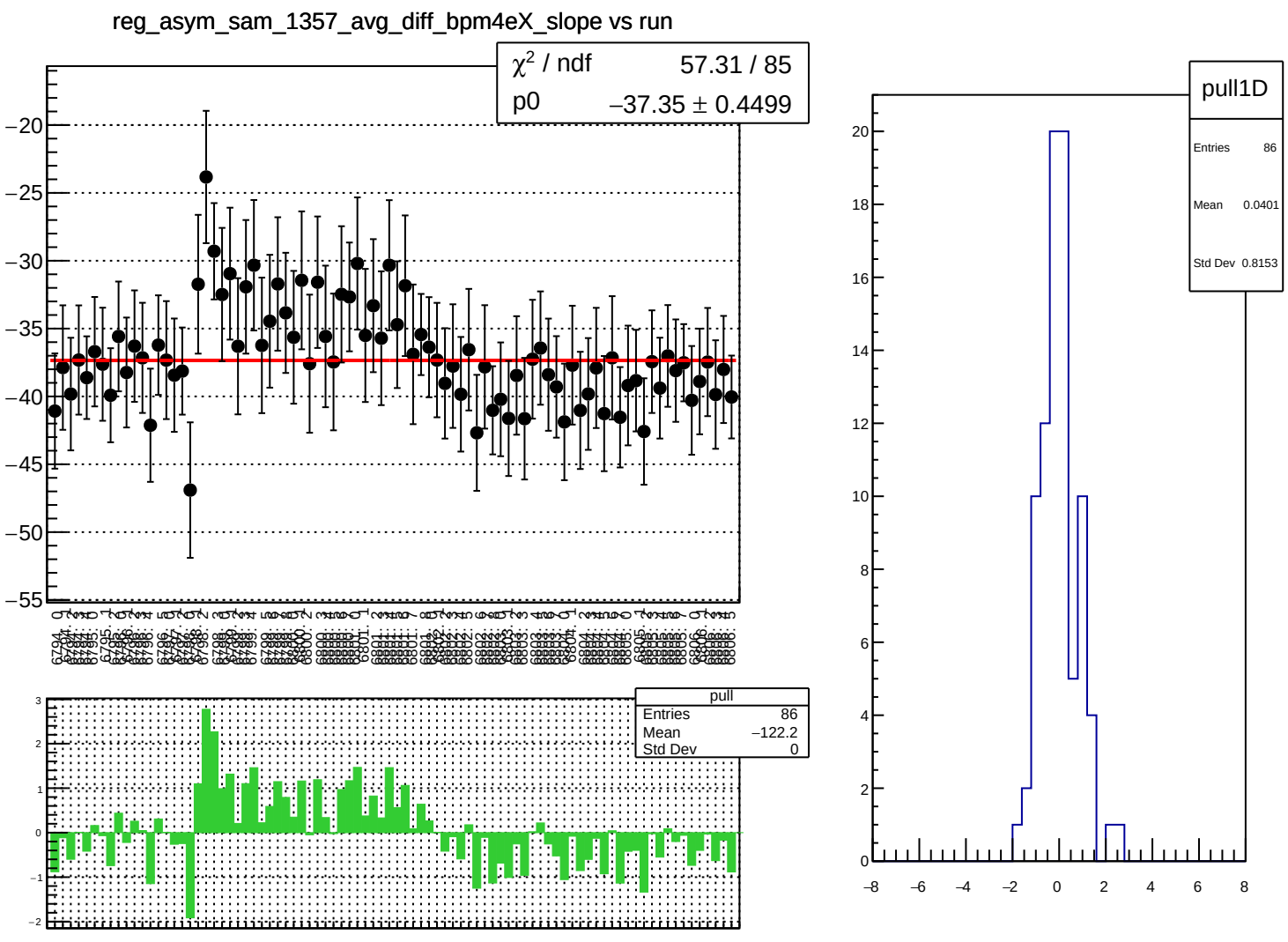

pull1D
Entries 86
Mean −0.01877
Std Dev 0.6206

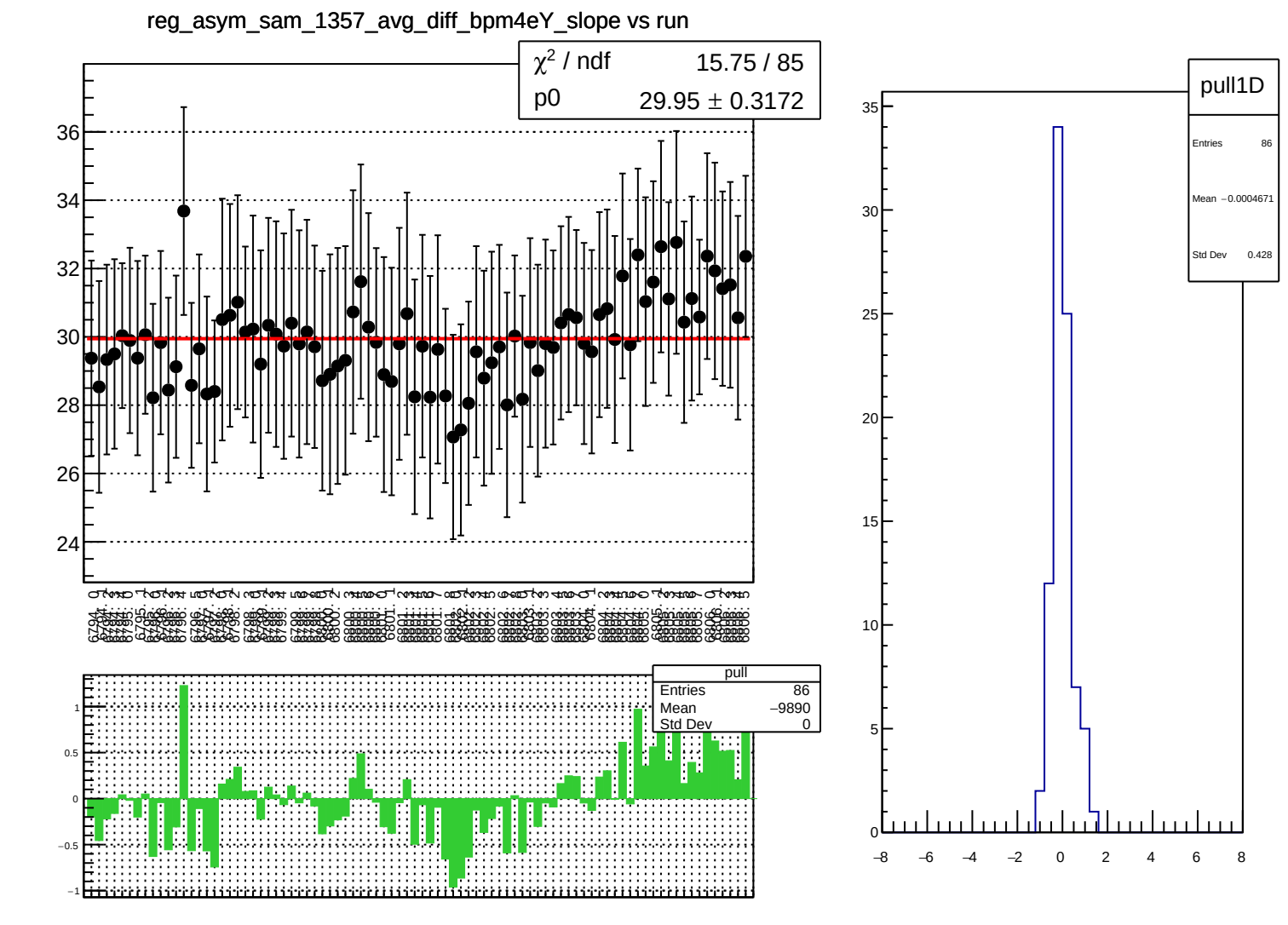

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 275.4 / 85
p0 24.24 ± 0.1292
pull
Entries 86
Mean 911.1
Std Dev 0
pull1D
Entries 86
Mean −0.02019
Std Dev 1.789

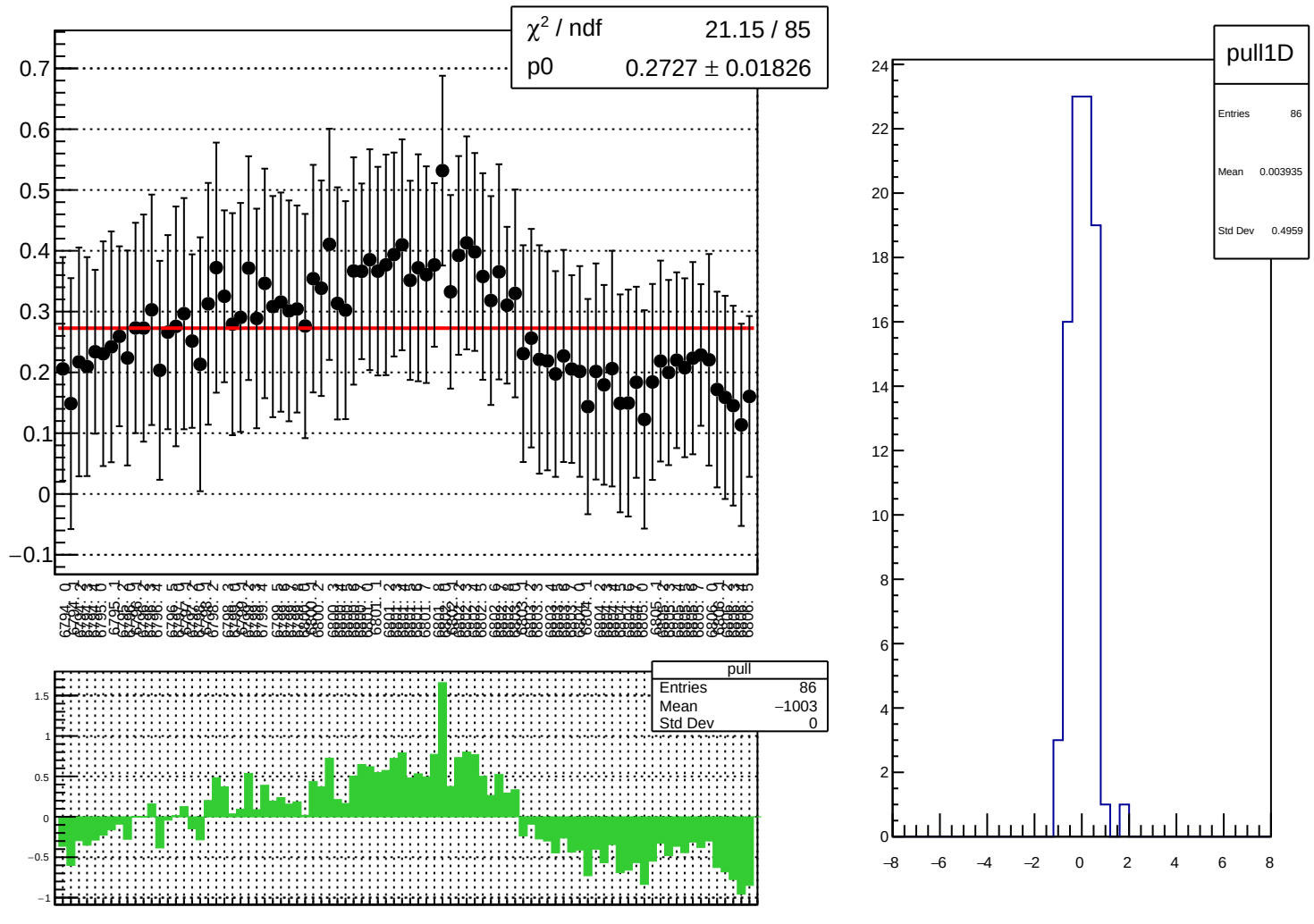

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 116.9 / 85
p0 −0.1149 ± 0.007376
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 86
Mean −436.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 86
Mean 0.01486
Std Dev 1.166
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

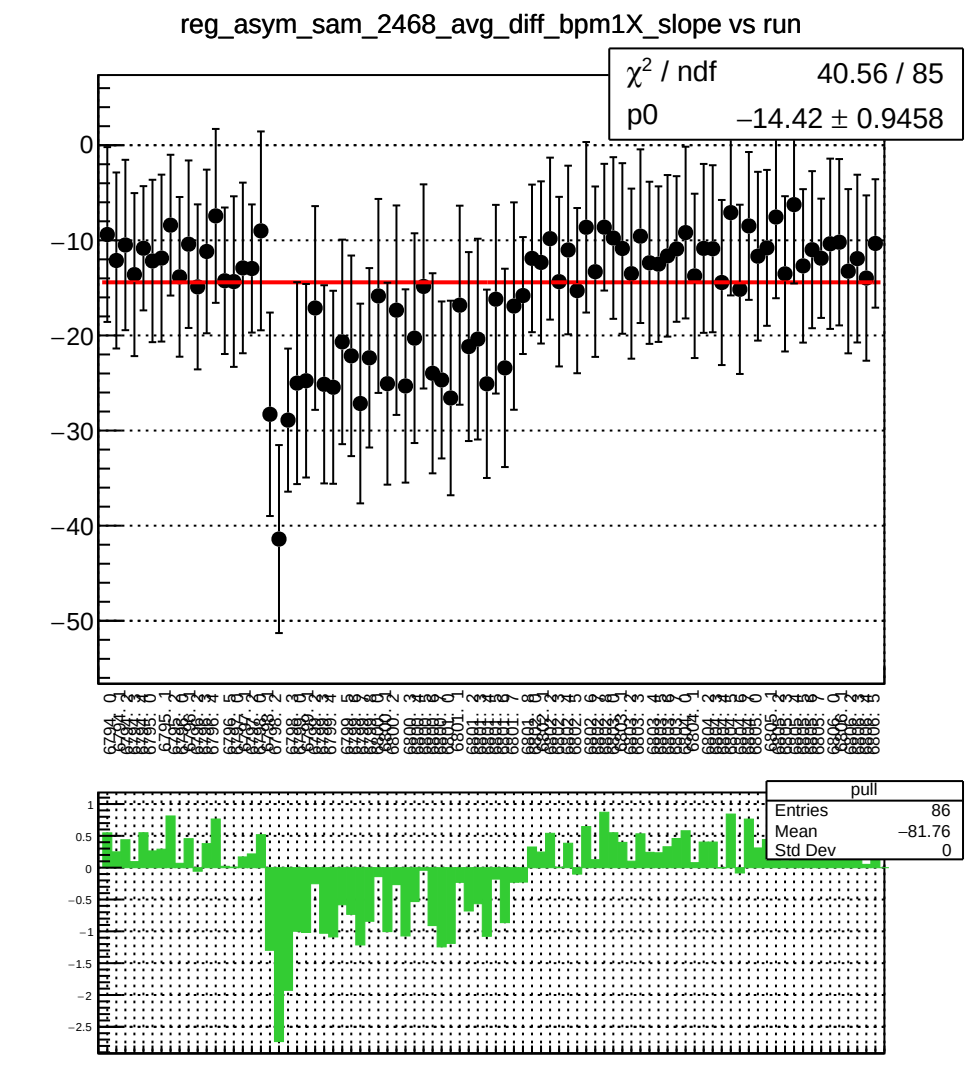

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 47.6 / 85
p0 −4.162 ± 0.4808
pull
Entries 86
Mean −99.62
Std Dev 0
pull1D
Entries 86
Mean −0.04778
Std Dev 0.7424

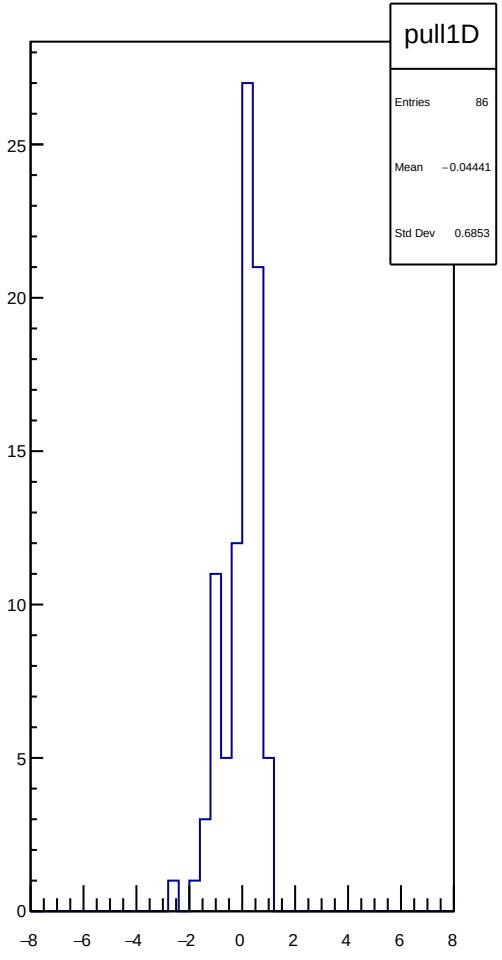

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.35 / 85
p0 −0.09452 ± 0.2286
pull
Entries 86
Mean 219.3
Std Dev 0
pull1D
Entries 86
Mean −0.01082
Std Dev 0.3632

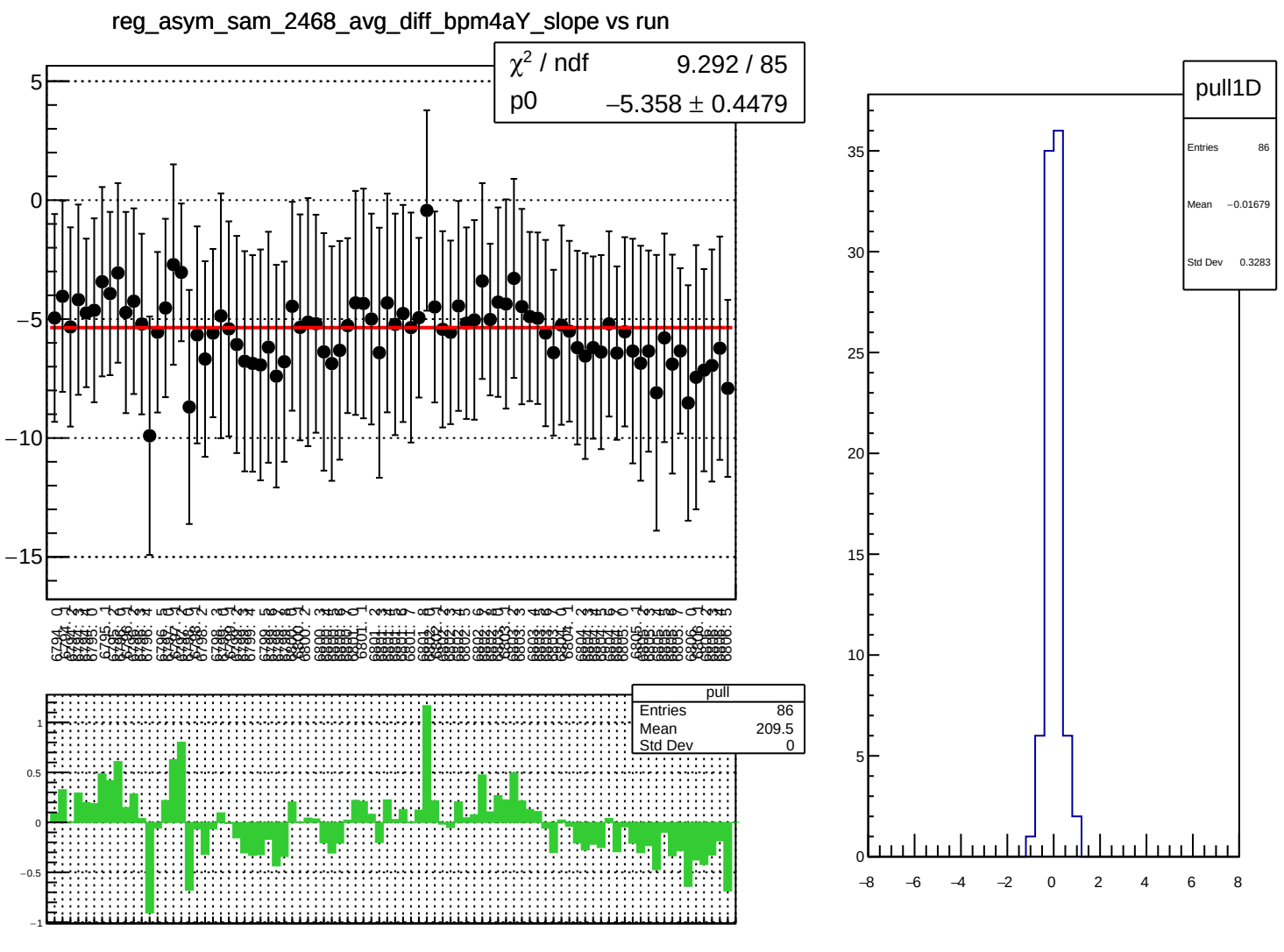

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.31 / 85
p0 −37.35 ± 0.4499
pull
Entries 86
Mean −122.2
Std Dev 0
pull1D
Entries 86
Mean 0.0401
Std Dev 0.8153

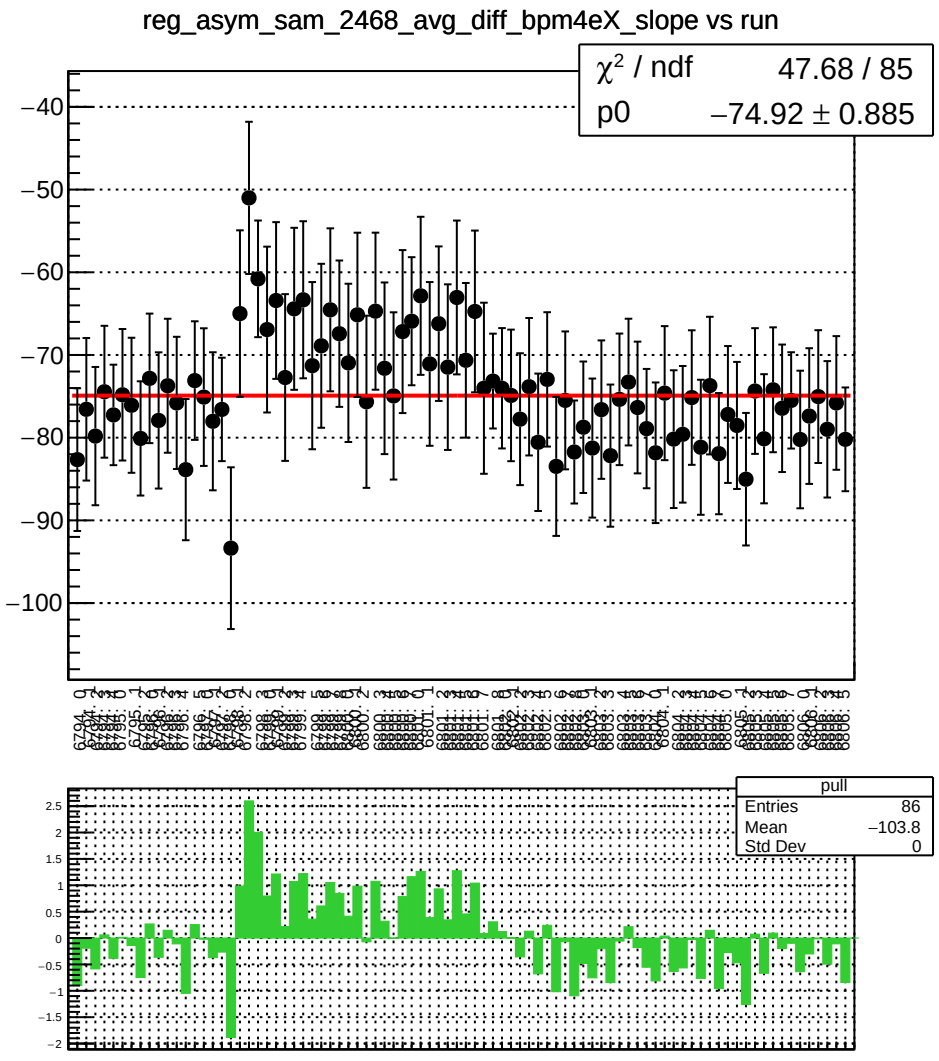

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.75 / 85
p0 29.95 ± 0.3172
pull
Entries 86
Mean −9890
Std Dev 0
pull1D
Entries 86
Mean −0.0004671
Std Dev 0.428

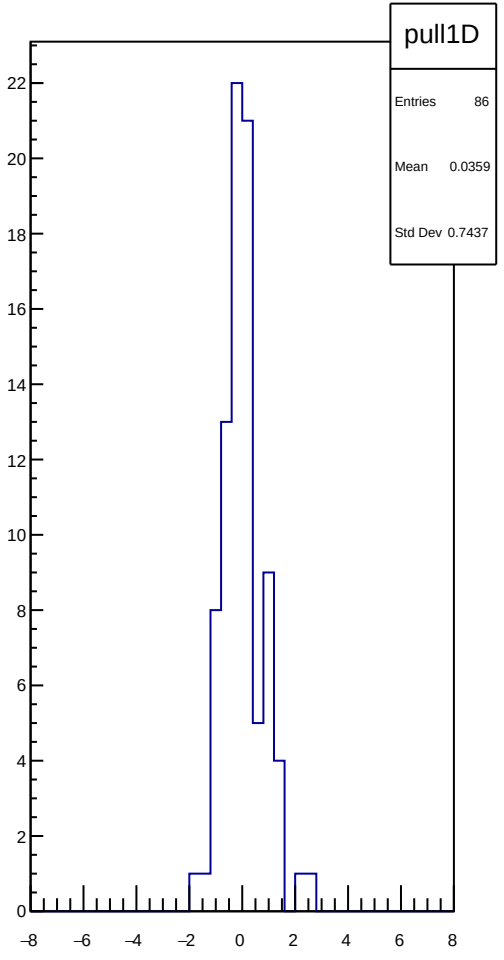

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 21.15 / 85
p0 0.2727 ± 0.01826
pull
Entries 86
Mean −1003
Std Dev 0
pull1D
Entries 86
Mean 0.003935
Std Dev 0.4959

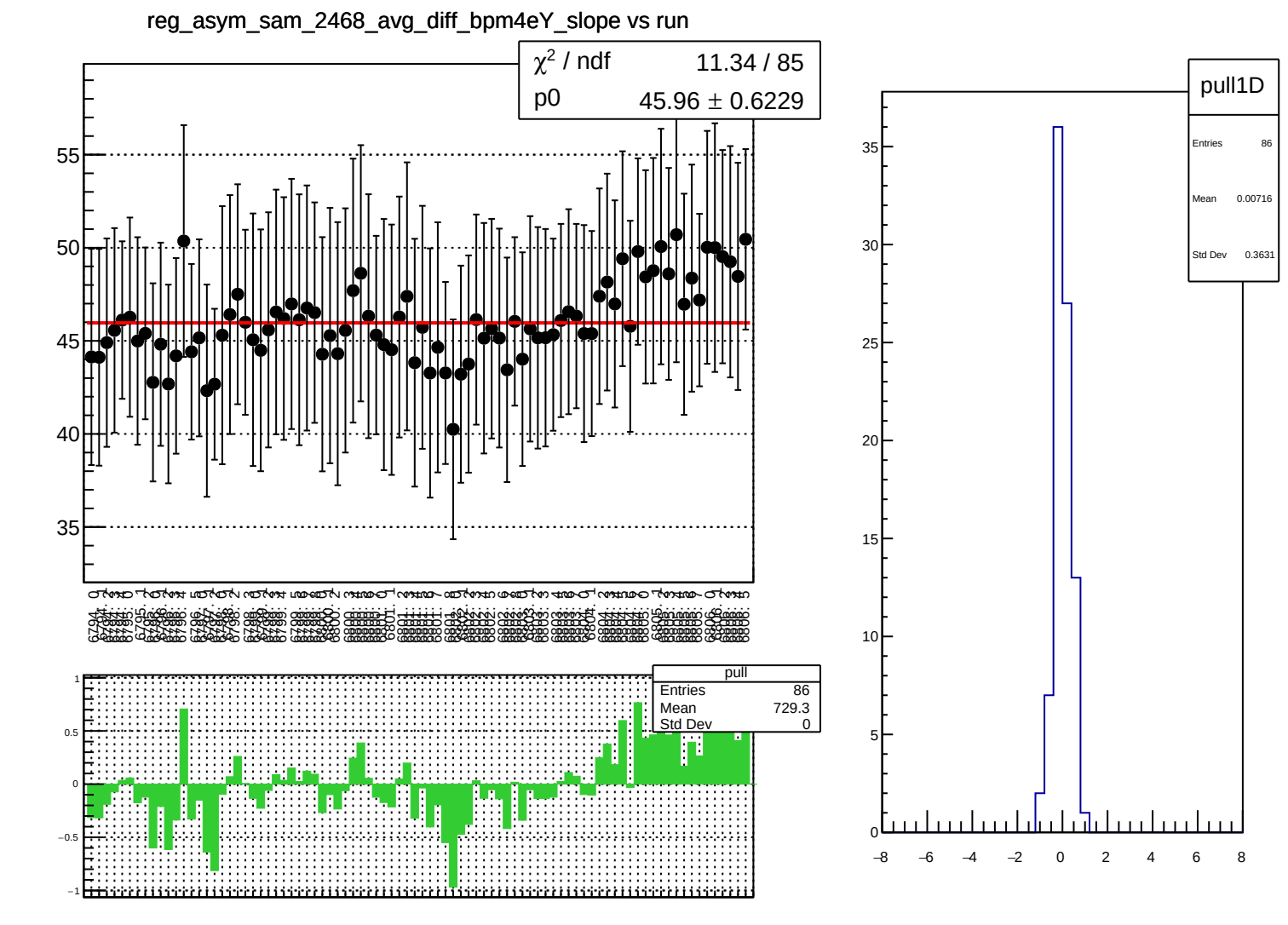

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 40.56 / 85
p0 −14.42 ± 0.9458
pull
Entries 86
Mean −81.76
Std Dev 0

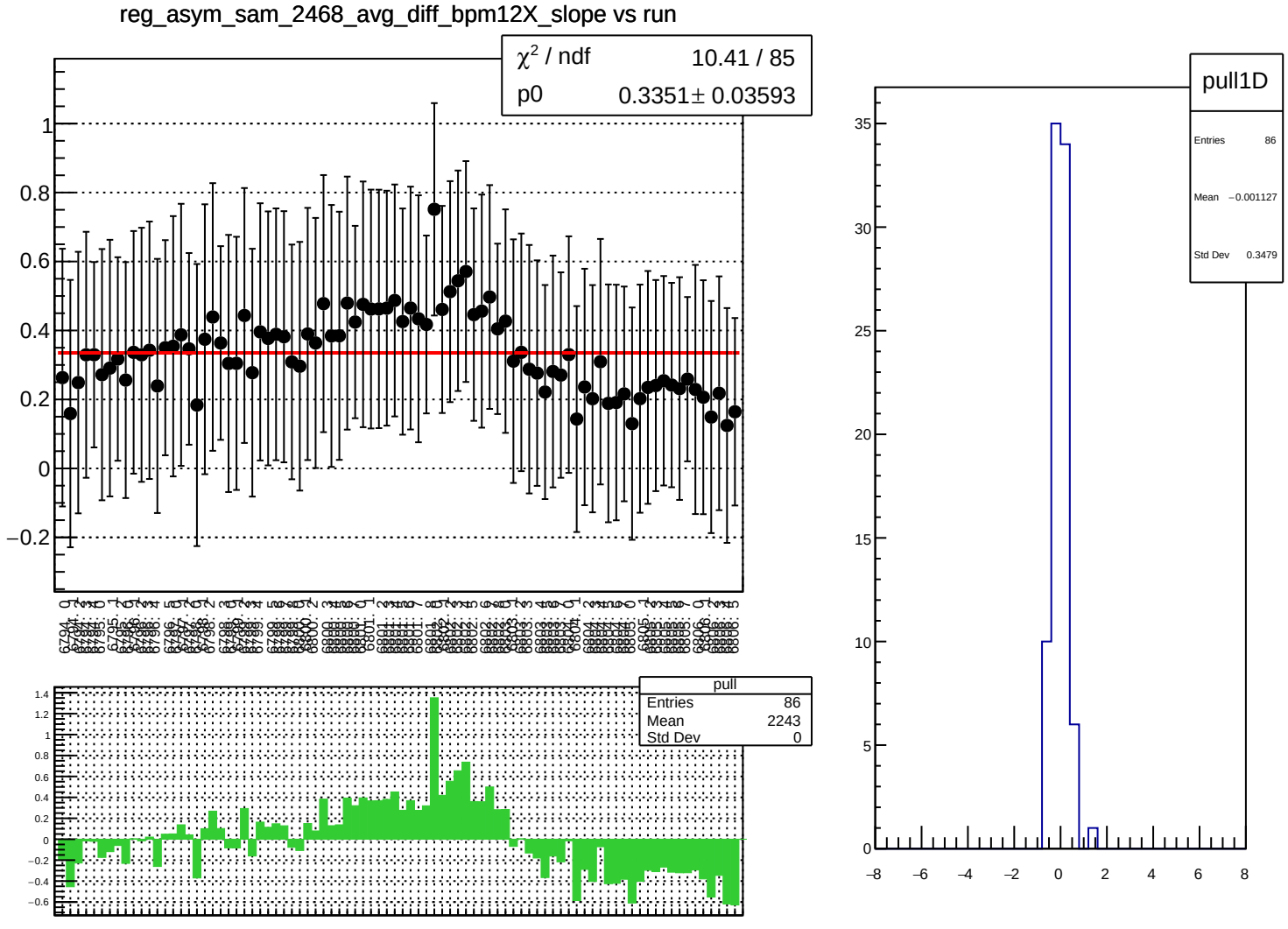

pull1D
Entries 86
Mean −0.04441
Std Dev 0.6853

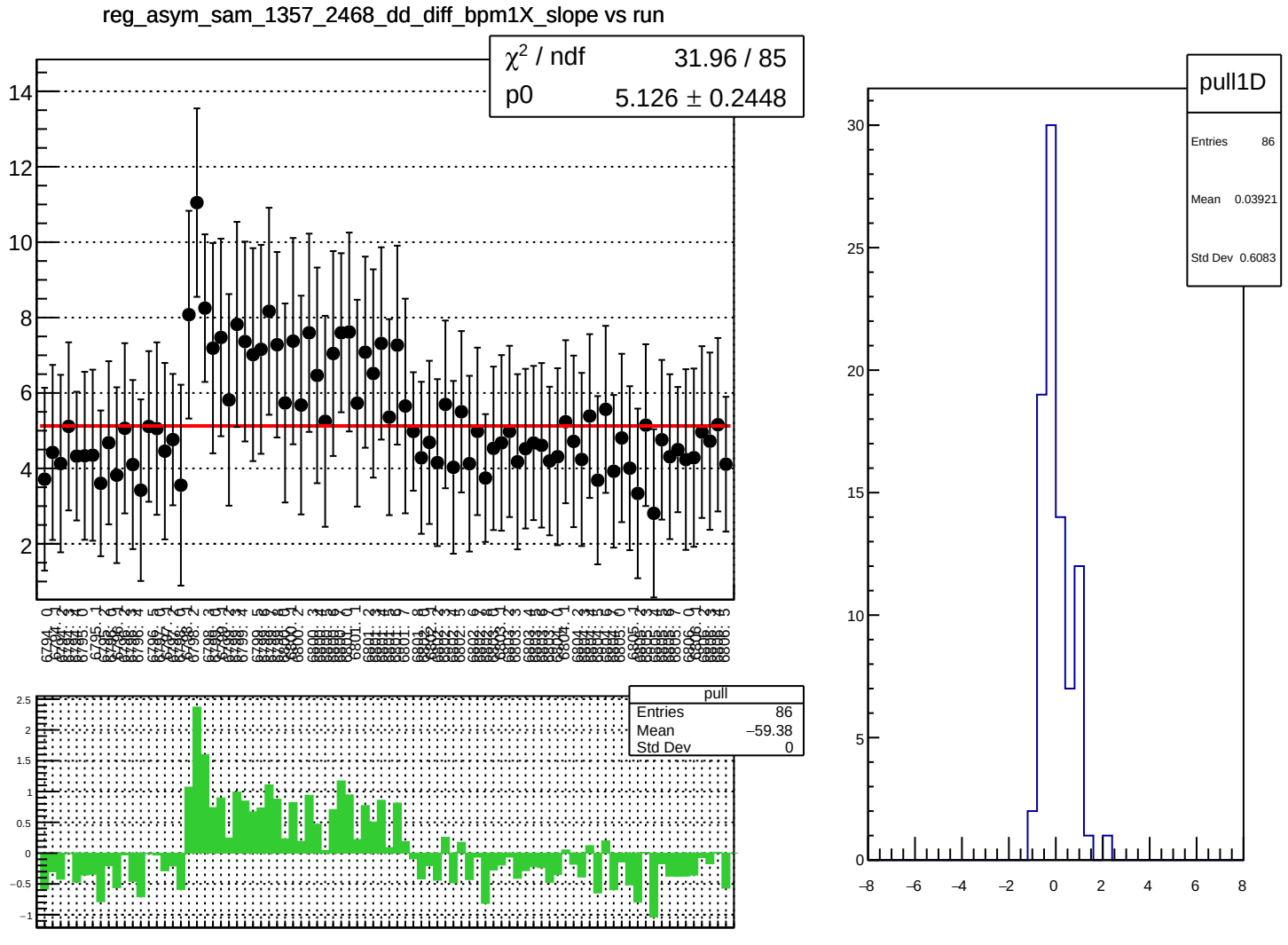

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.292 / 85
p0 −5.358 ± 0.4479
pull
Entries 86
Mean 209.5
Std Dev 0
pull1D
Entries 86
Mean −0.01679
Std Dev 0.3283

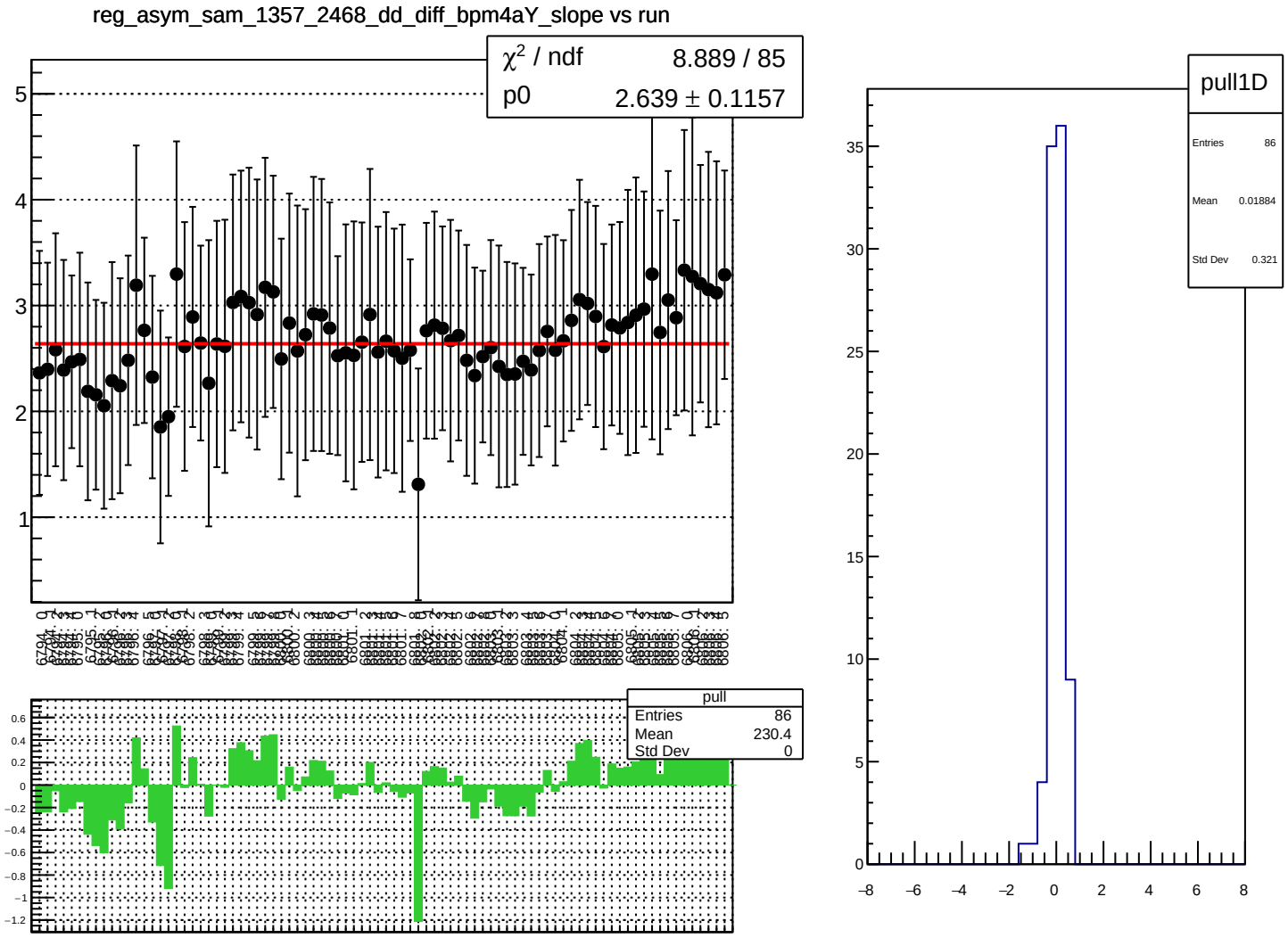

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.68 / 85
p0 −74.92 ± 0.885
pull
Entries 86
Mean −103.8
Std Dev 0

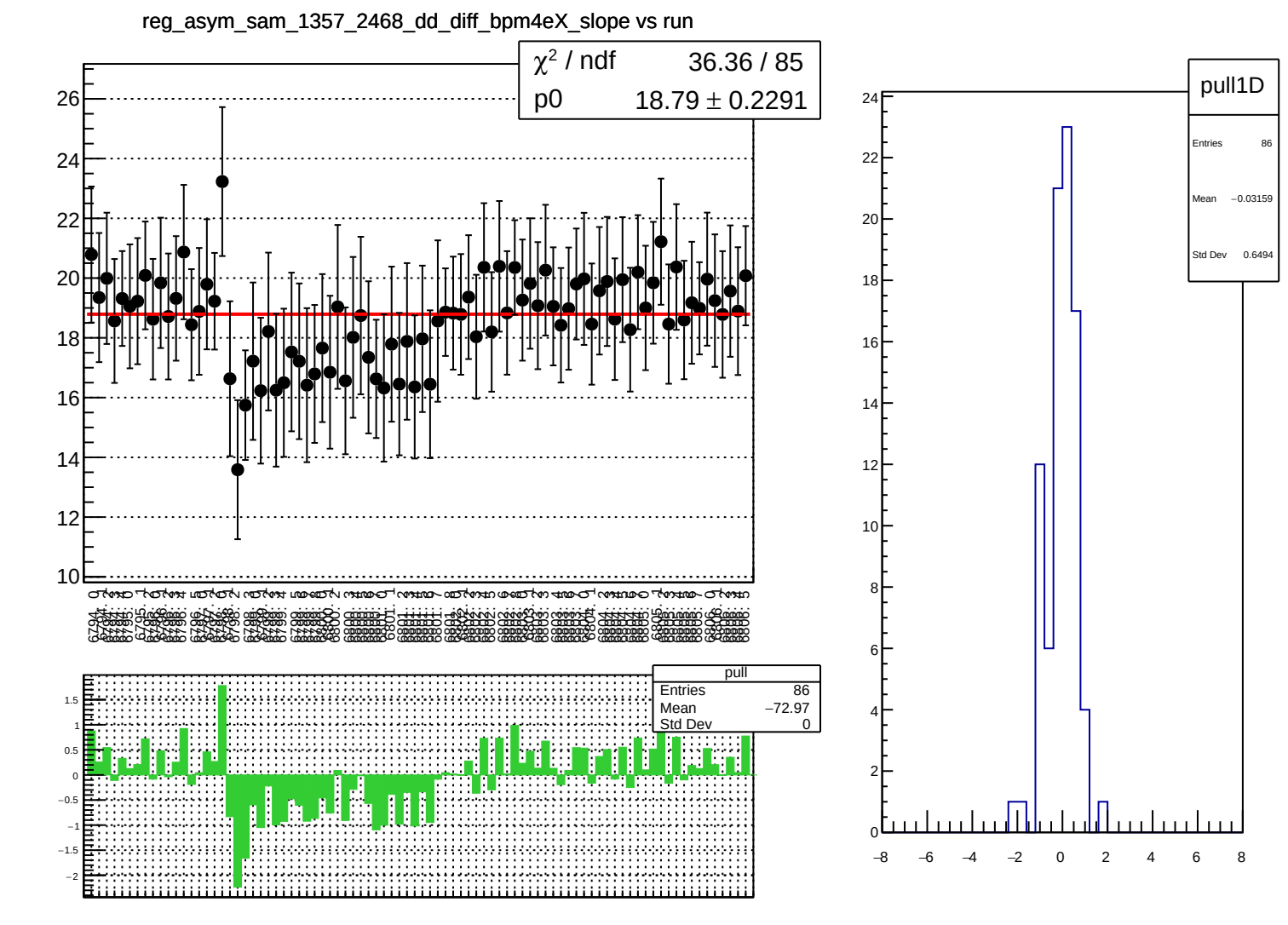

pull1D
Entries 86
Mean 0.0359
Std Dev 0.7437

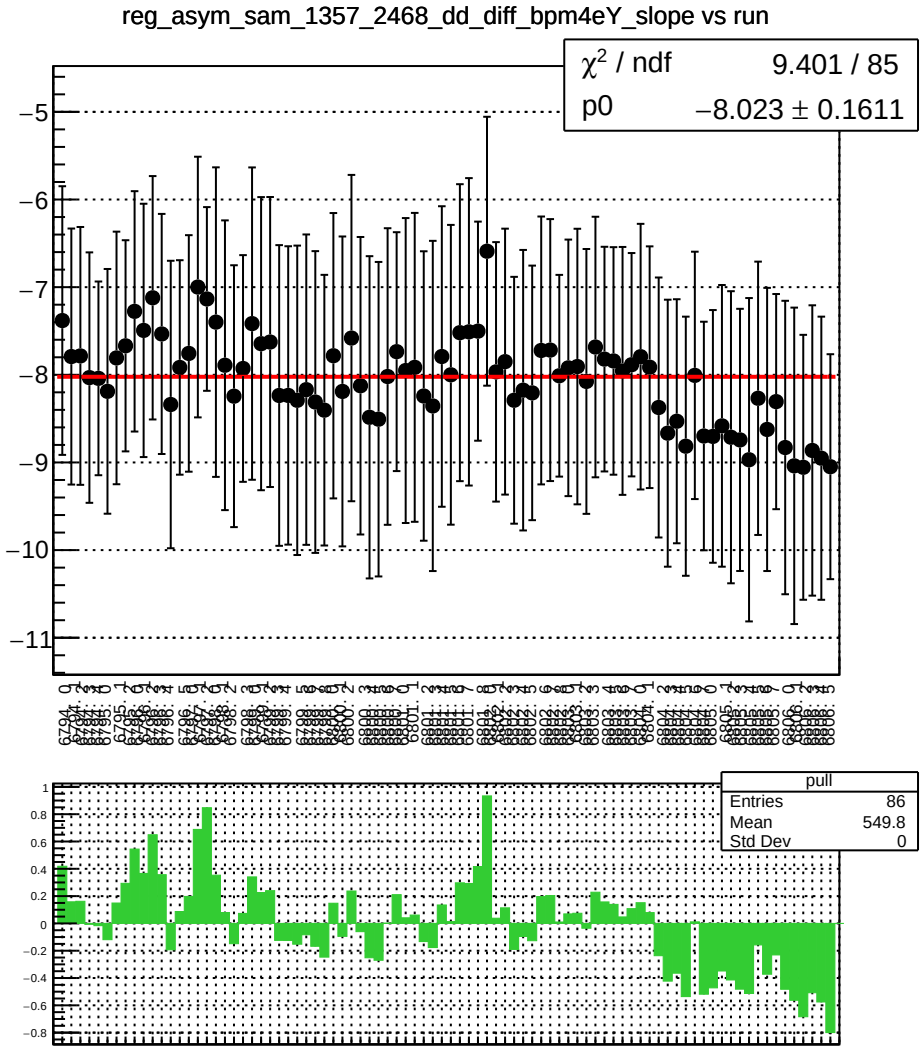

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.34 / 85
p0 45.96 ± 0.6229
pull
Entries 86
Mean 729.3
Std Dev 0
pull1D
Entries 86
Mean 0.00716
Std Dev 0.3631

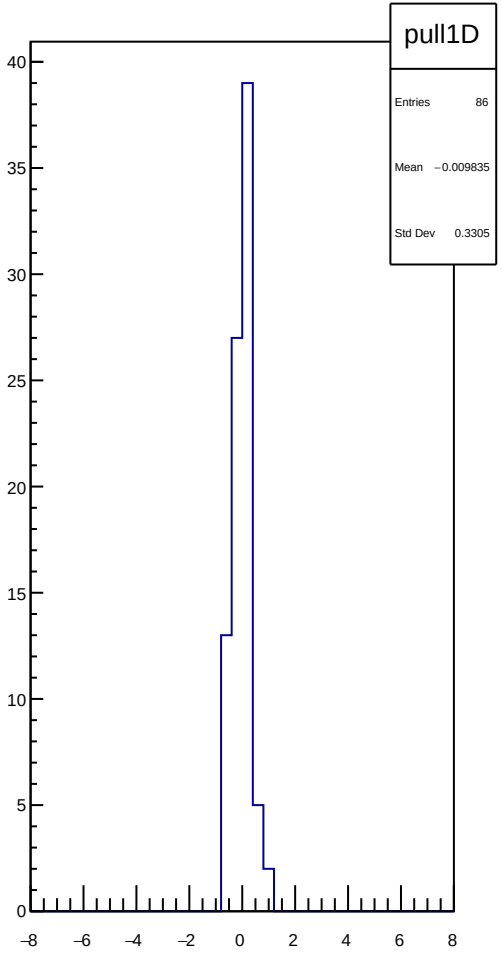

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 10.41 / 85
p0 0.3351± 0.03593
pull
Entries 86
Mean 2243
Std Dev 0
pull1D
Entries 86
Mean −0.001127
Std Dev 0.3479

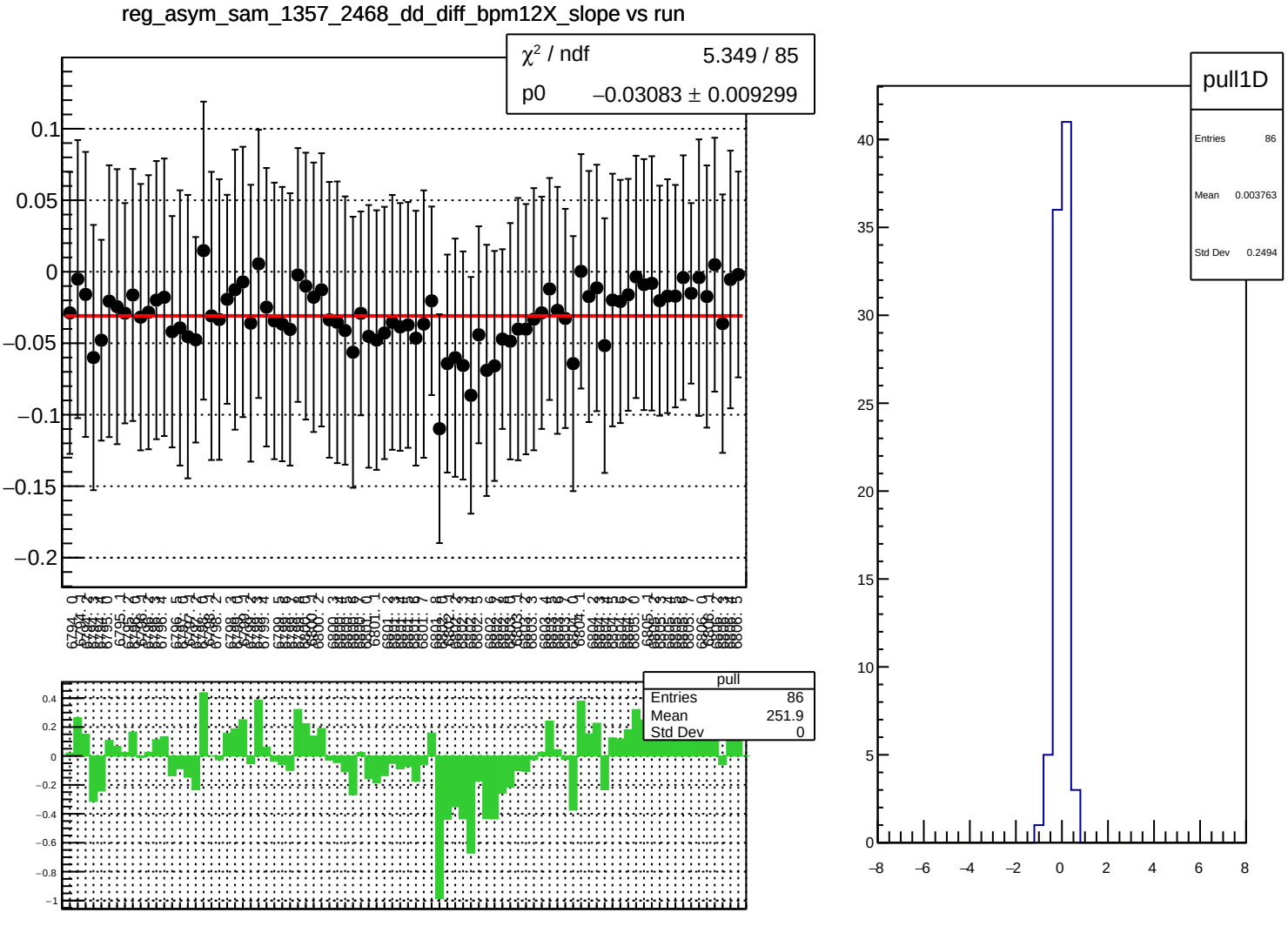

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 31.96 / 85
p0 5.126 ± 0.2448
pull
Entries 86
Mean −59.38
Std Dev 0
pull1D
Entries 86
Mean 0.03921
Std Dev 0.6083

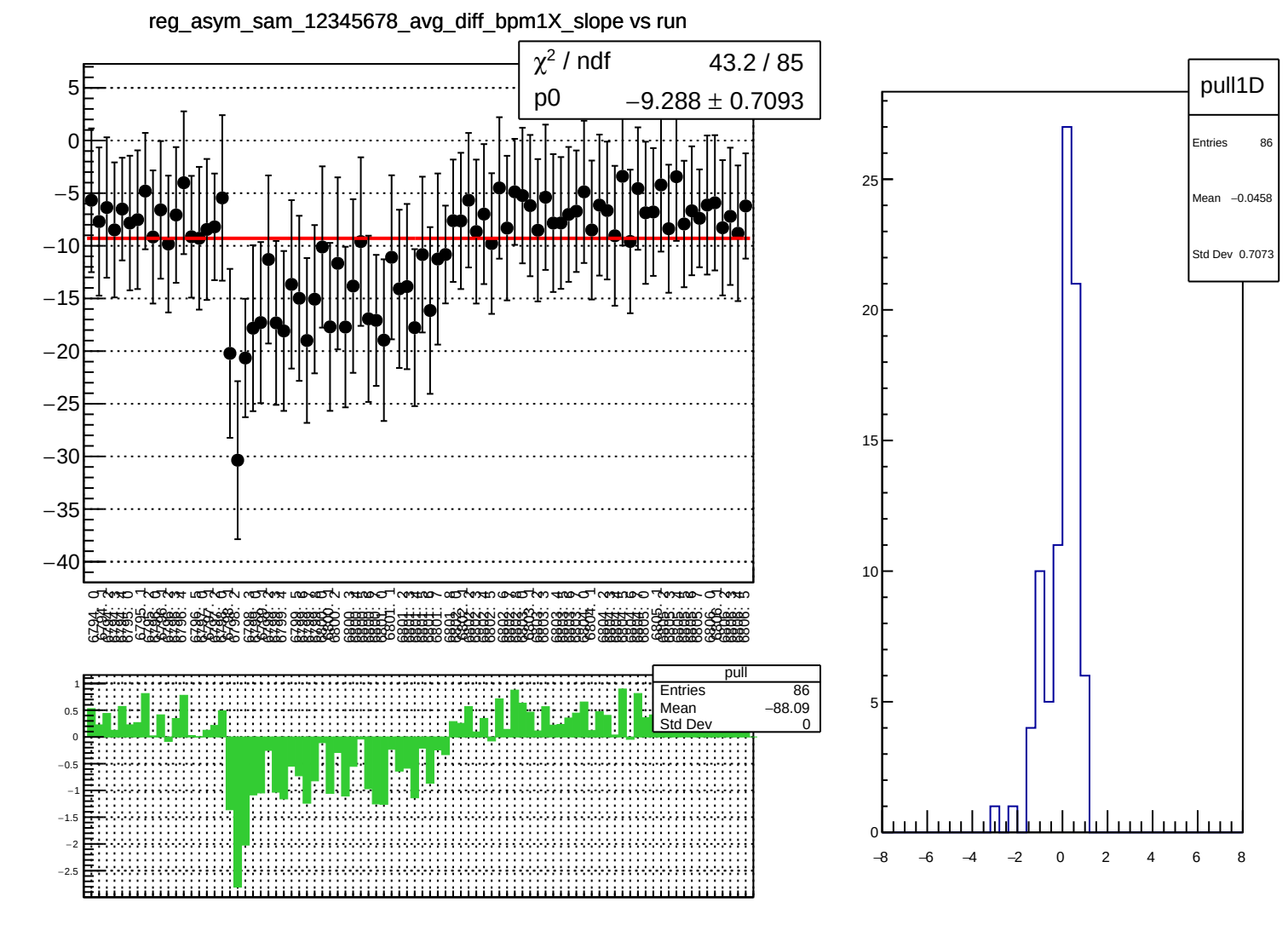

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.889 / 85
p0 2.639 ± 0.1157
pull
Entries 86
Mean 230.4
Std Dev 0
pull1D
Entries 86
Mean 0.01884
Std Dev 0.321

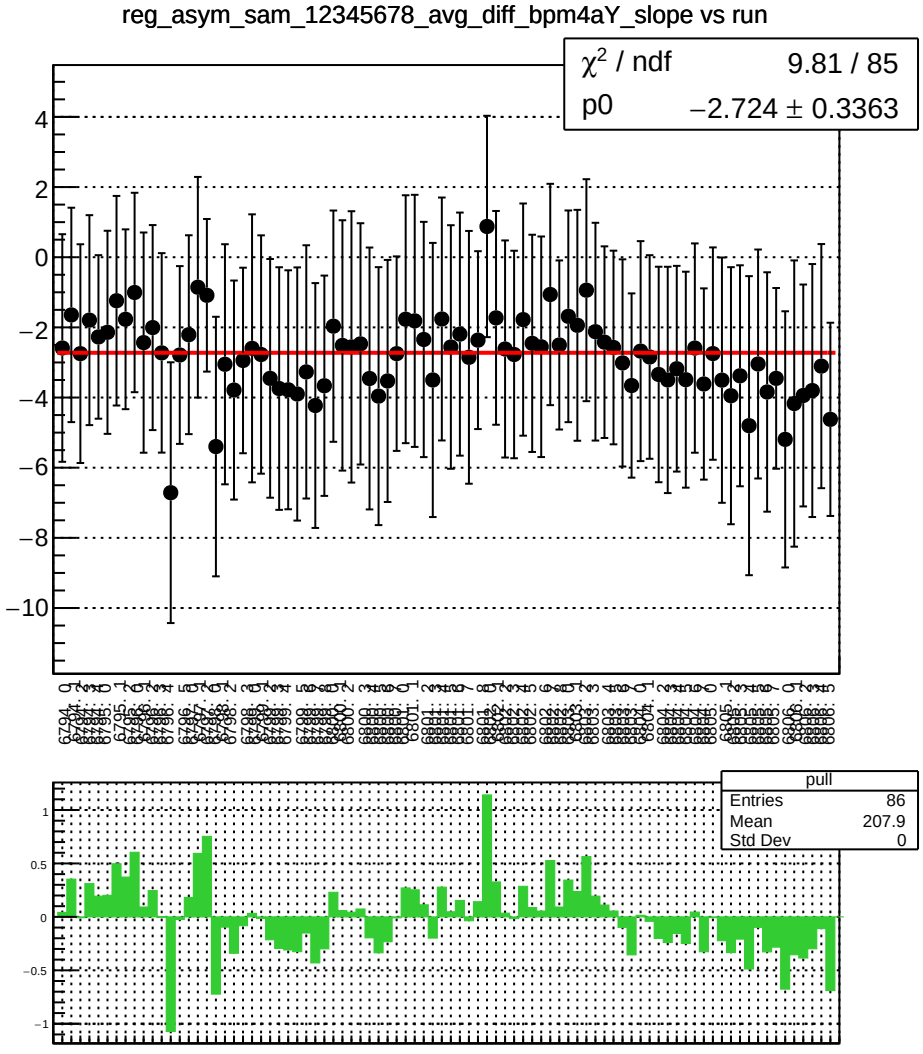

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.36 / 85
p0 18.79 ± 0.2291
pull
Entries 86
Mean −72.97
Std Dev 0
pull1D
Entries 86
Mean −0.03159
Std Dev 0.6494

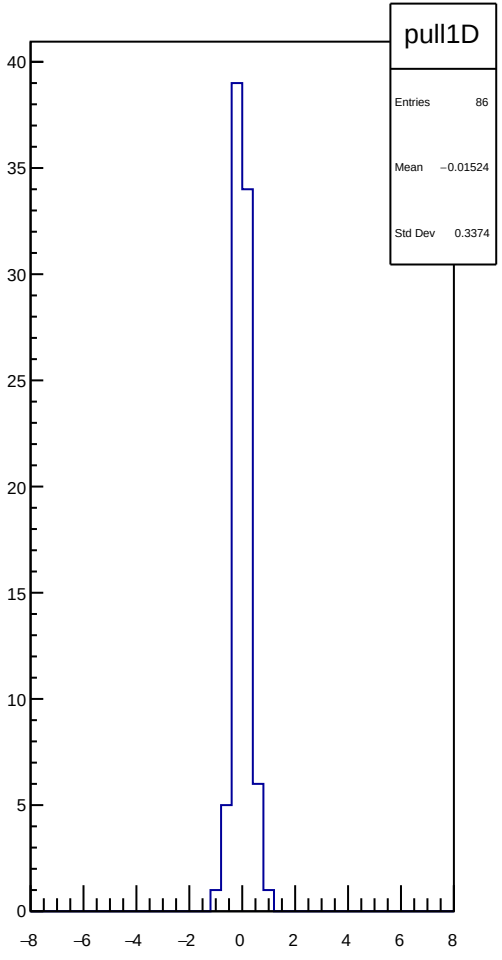

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.401 / 85
p0 −8.023 ± 0.1611
pull
Entries 86
Mean 549.8
Std Dev 0

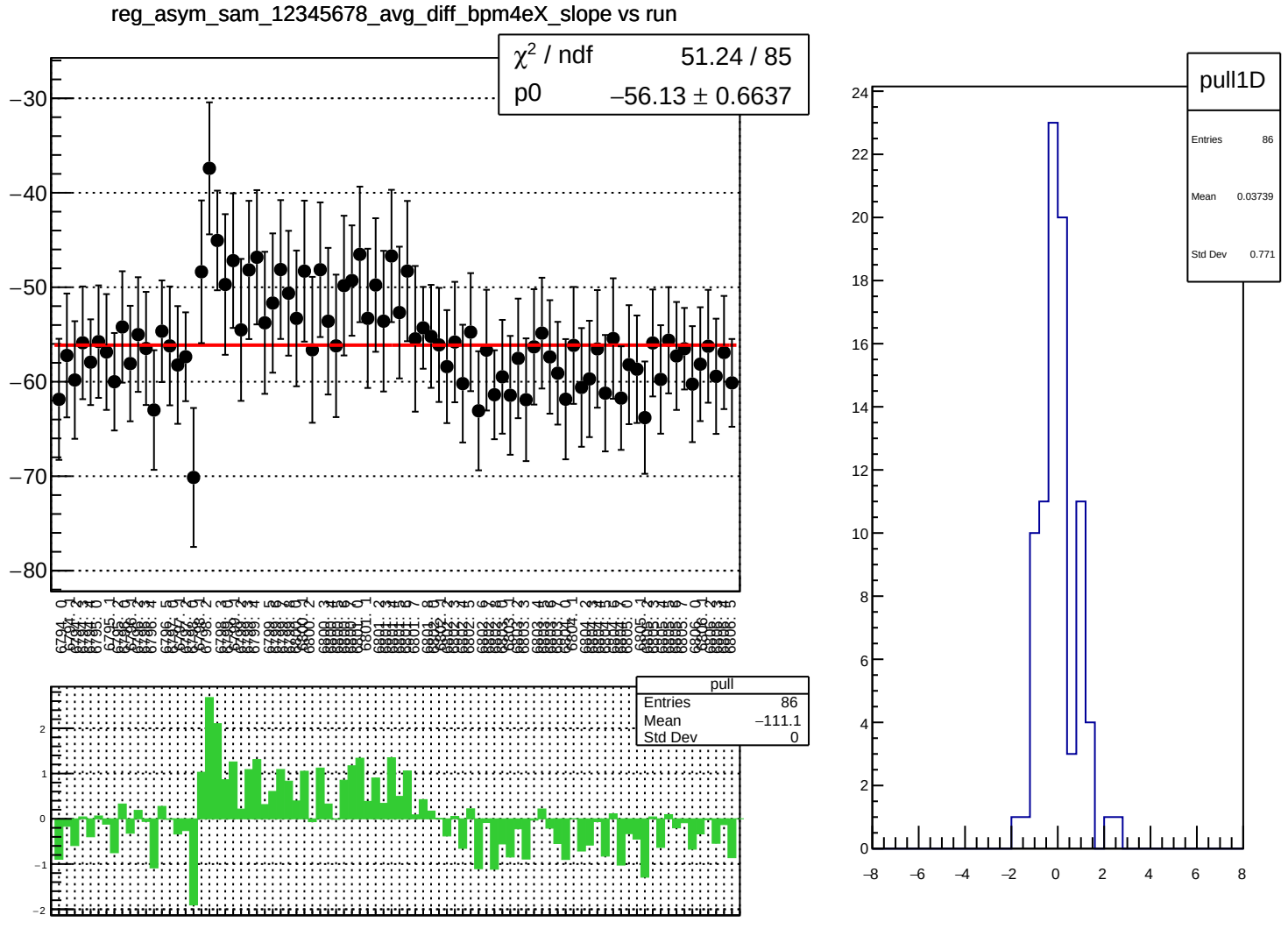

pull1D
Entries 86
Mean −0.009835
Std Dev 0.3305

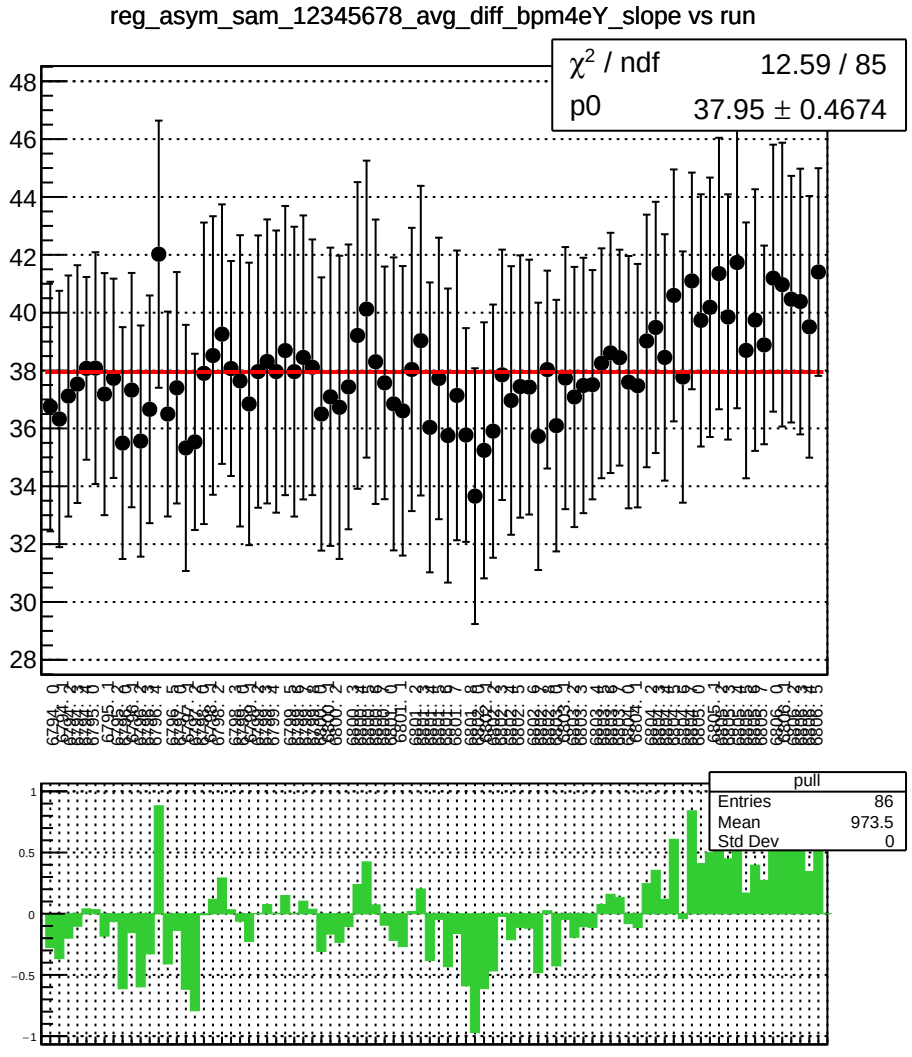

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 5.349 / 85
p0 −0.03083 ± 0.009299
pull
Entries 86
Mean 251.9
Std Dev 0
pull1D
Entries 86
Mean 0.003763
Std Dev 0.2494

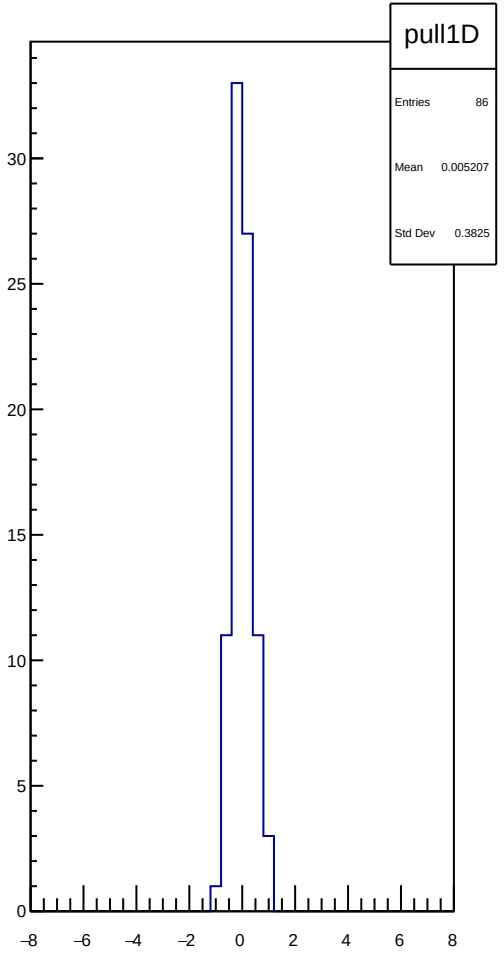

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 43.2 / 85
p0 −9.288 ± 0.7093
pull
Entries 86
Mean −88.09
Std Dev 0
pull1D
Entries 86
Mean −0.0458
Std Dev 0.7073

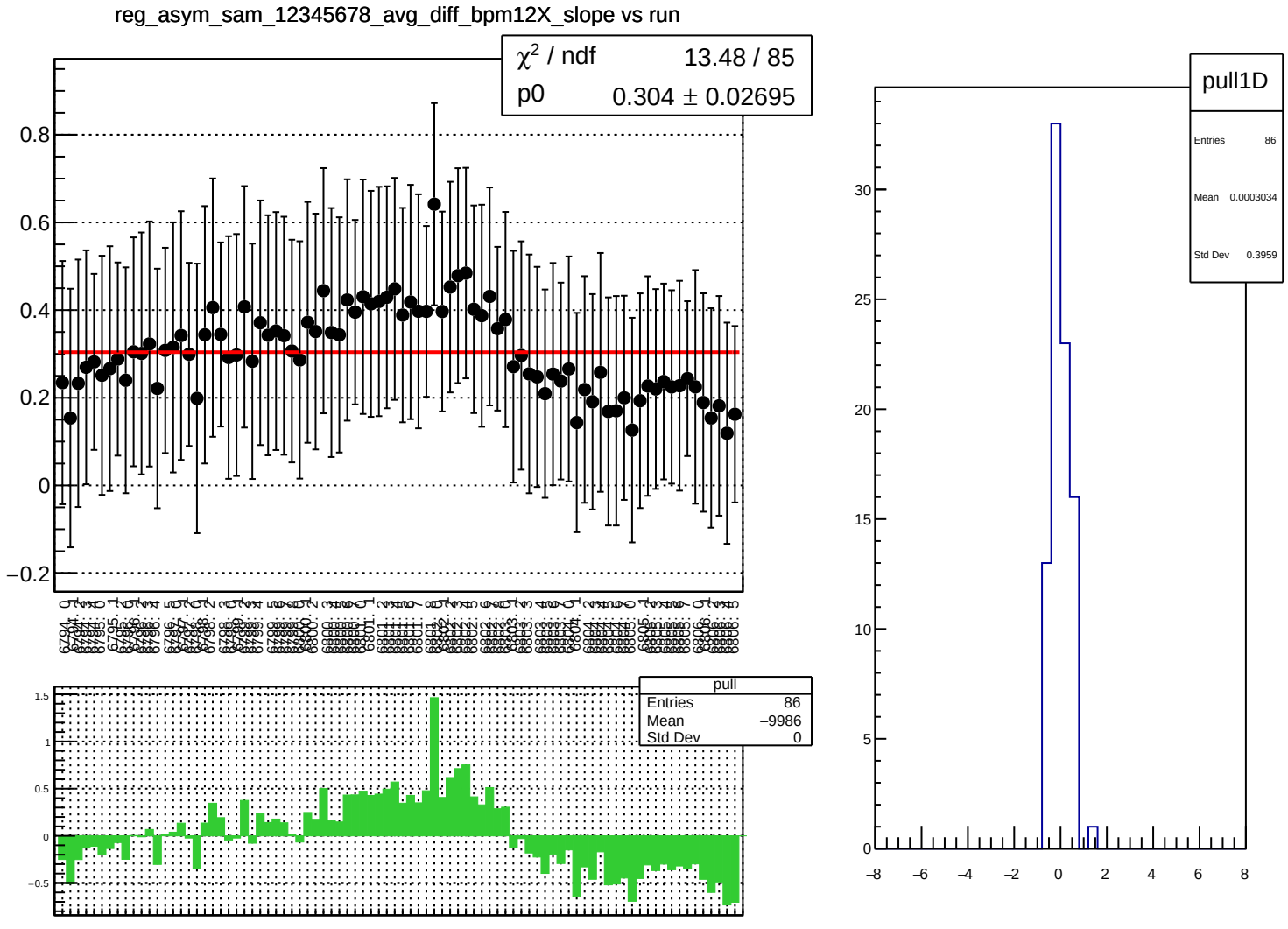

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.81 / 85
p0 −2.724 ± 0.3363
pull
Entries 86
Mean 207.9
Std Dev 0

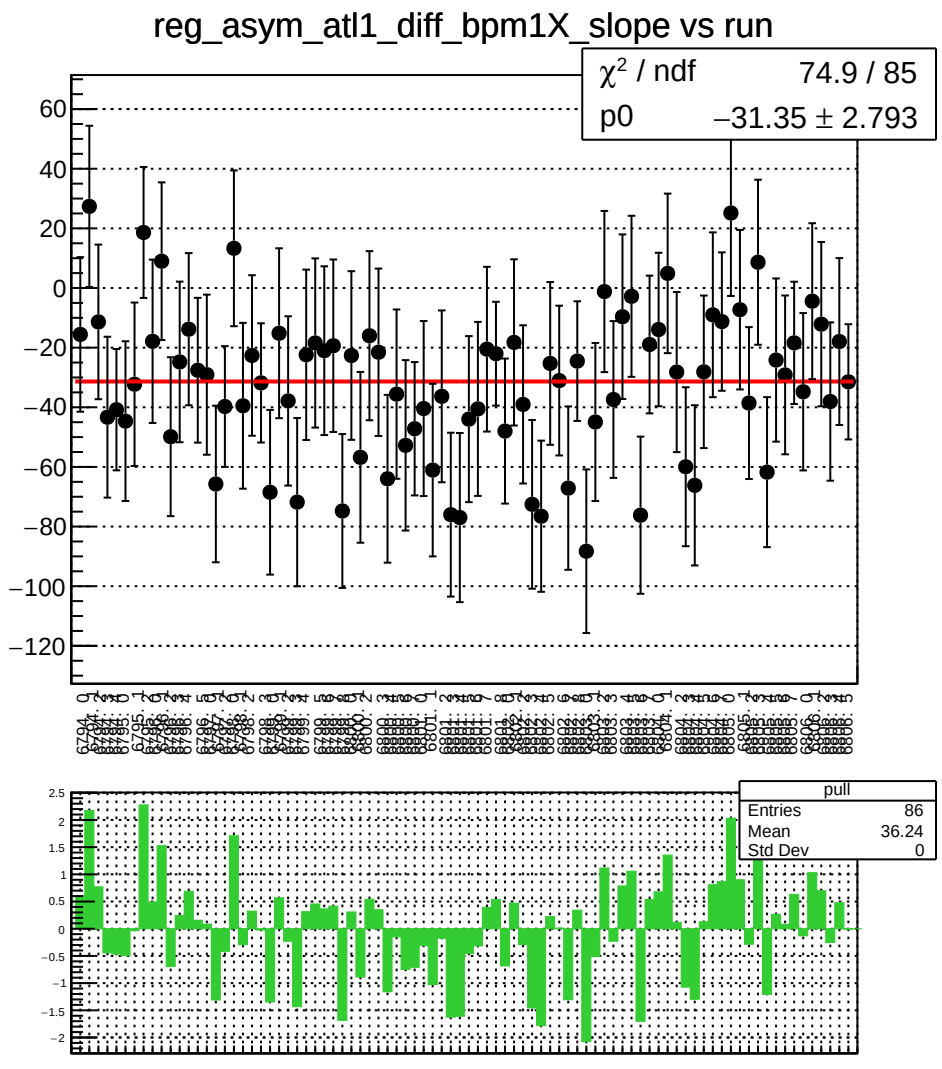

pull1D
Entries 86
Mean −0.01524
Std Dev 0.3374

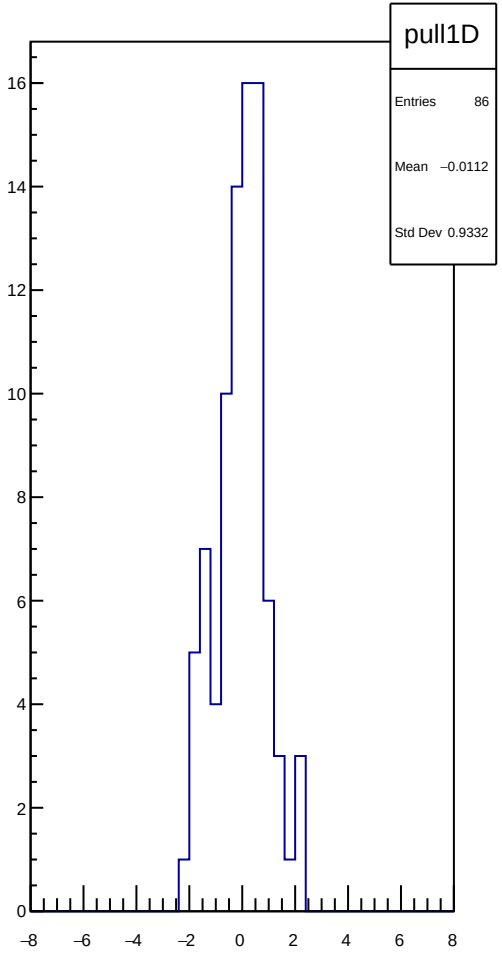

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 51.24 / 85
p0 −56.13 ± 0.6637
pull
Entries 86
Mean −111.1
Std Dev 0
pull1D
Entries 86
Mean 0.03739
Std Dev 0.771

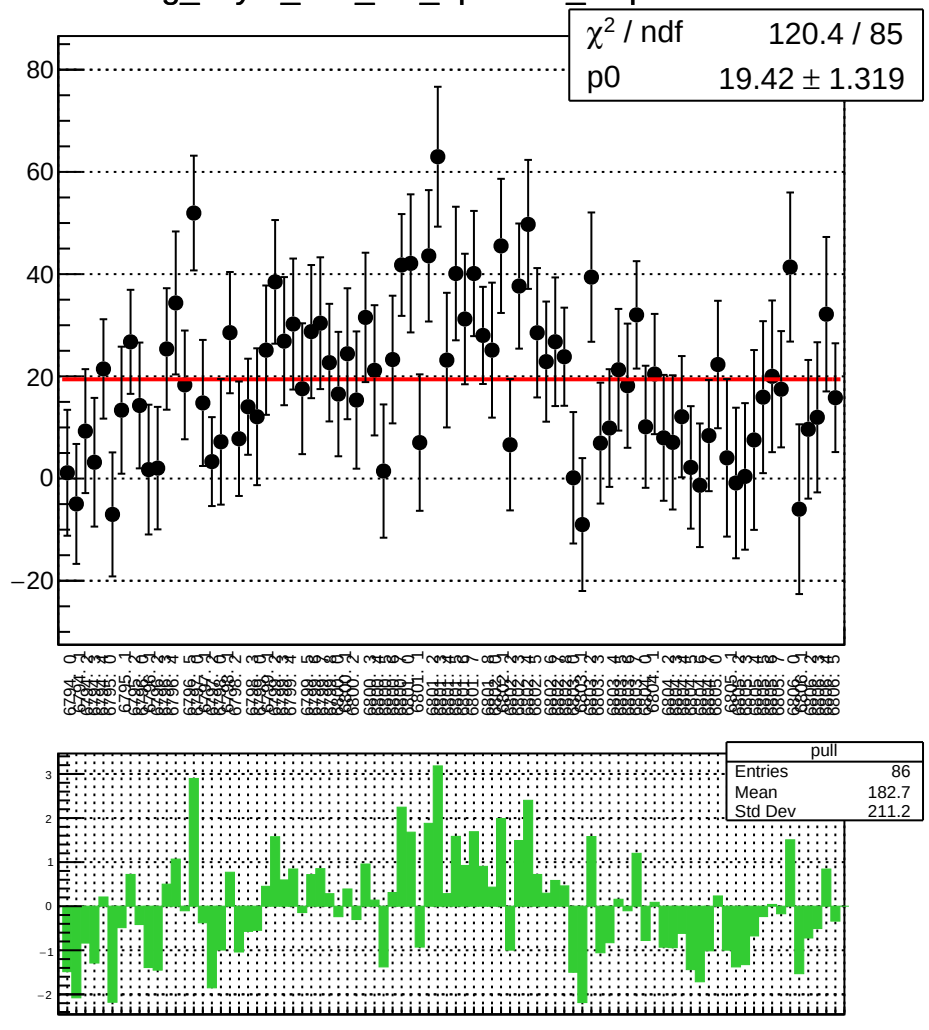

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.59 / 85
p0 37.95 ± 0.4674
pull
Entries 86
Mean 973.5
Std Dev 0

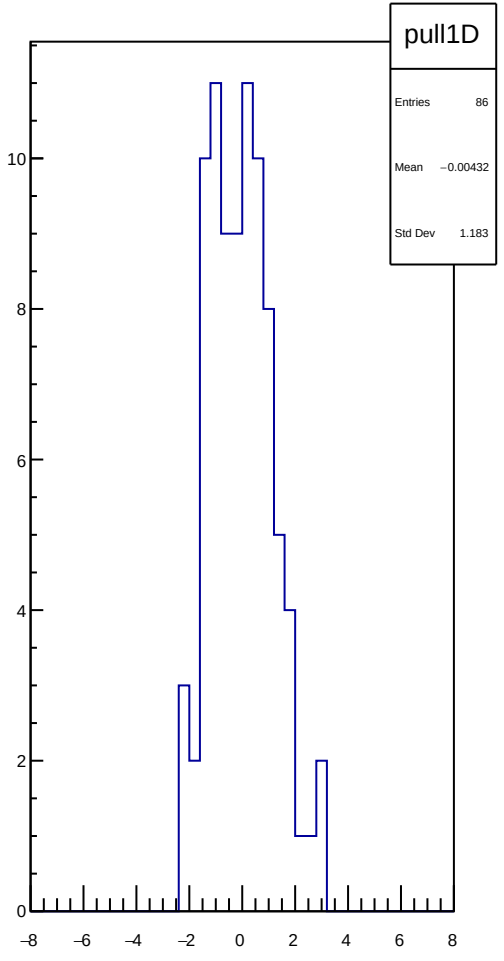

pull1D
Entries 86
Mean 0.005207
Std Dev 0.3825

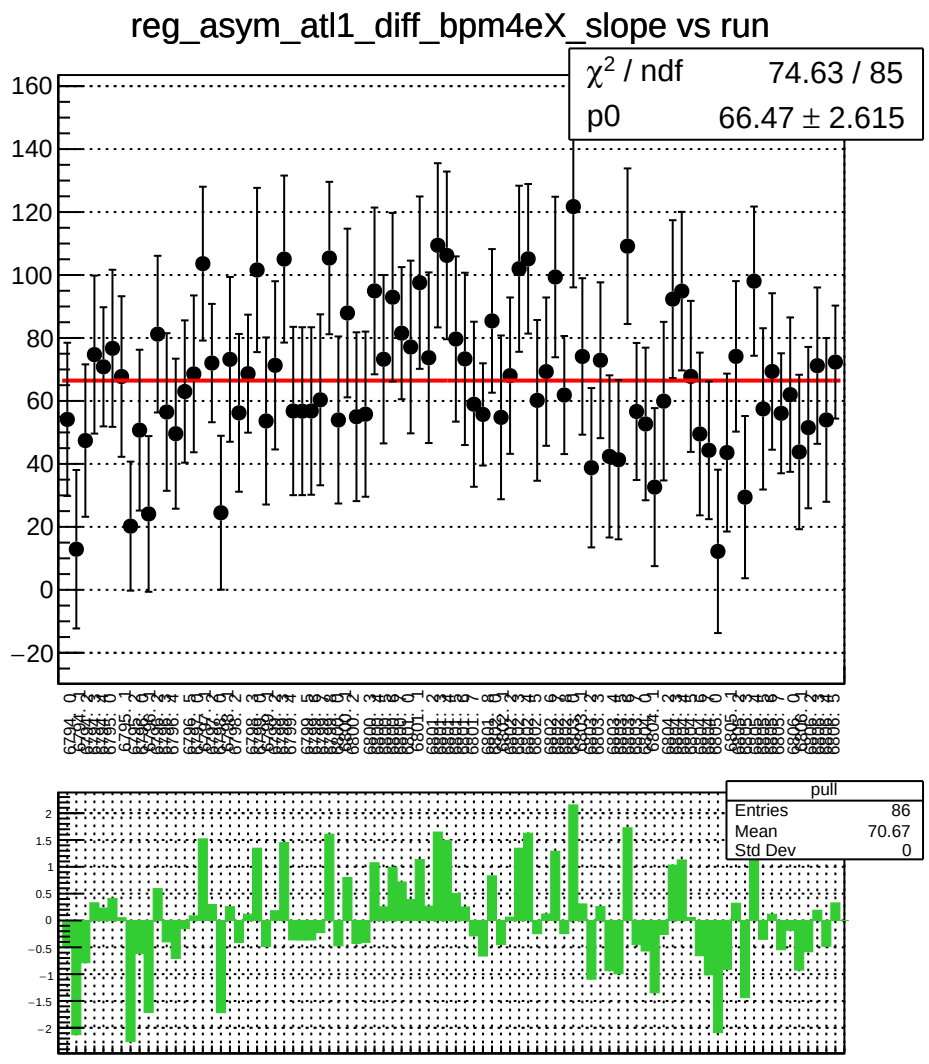

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 13.48 / 85
p0 0.304 ± 0.02695
pull
Entries 86
Mean −9986
Std Dev 0
pull1D
Entries 86
Mean 0.0003034
Std Dev 0.3959

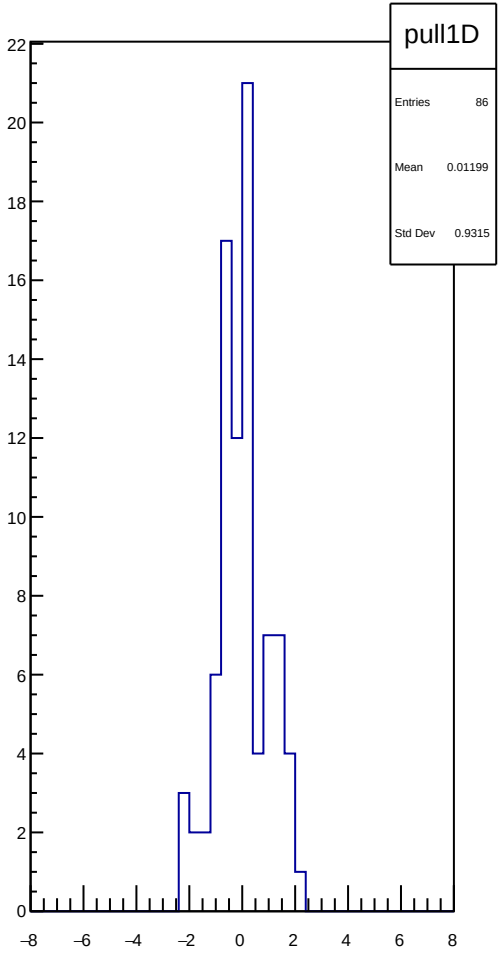

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 74.9 / 85
p0 −31.35 ± 2.793
pull
Entries 86
Mean 36.24
Std Dev 0

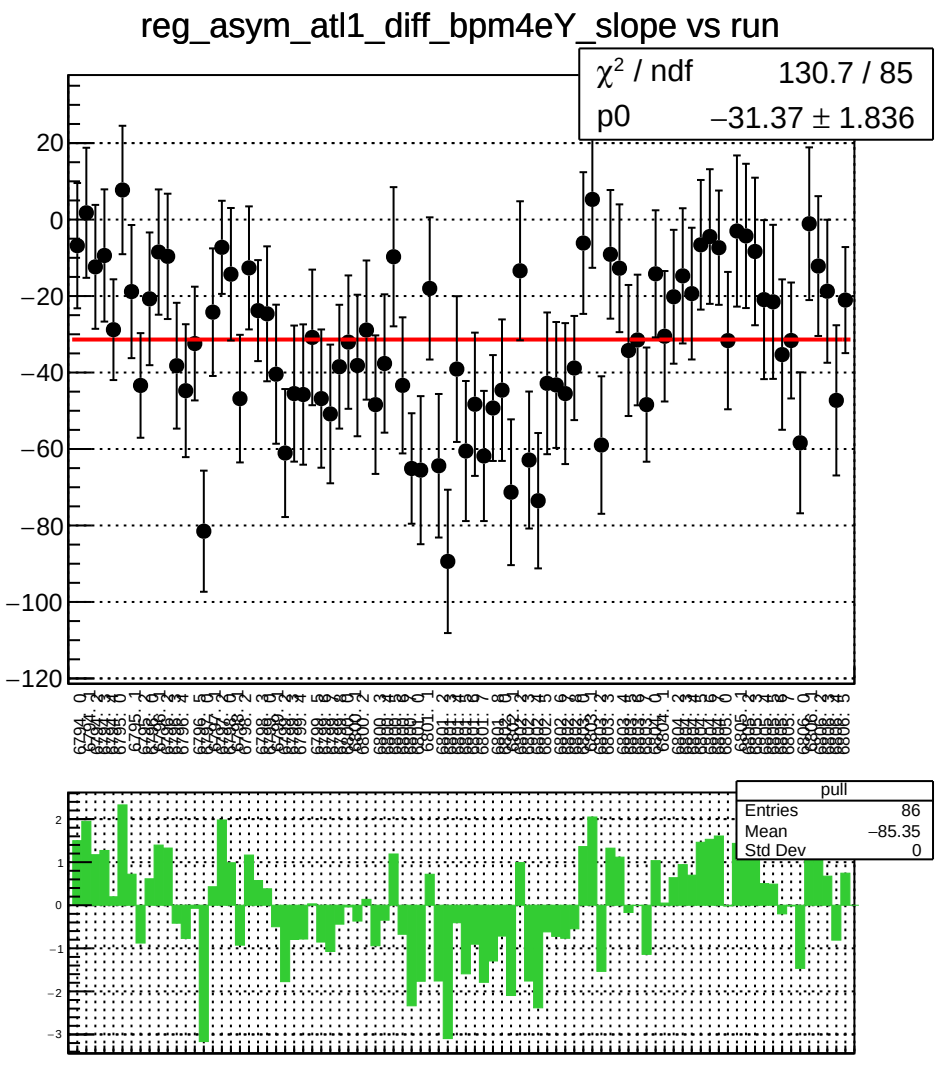

pull1D
Entries 86
Mean −0.0112
Std Dev 0.9332

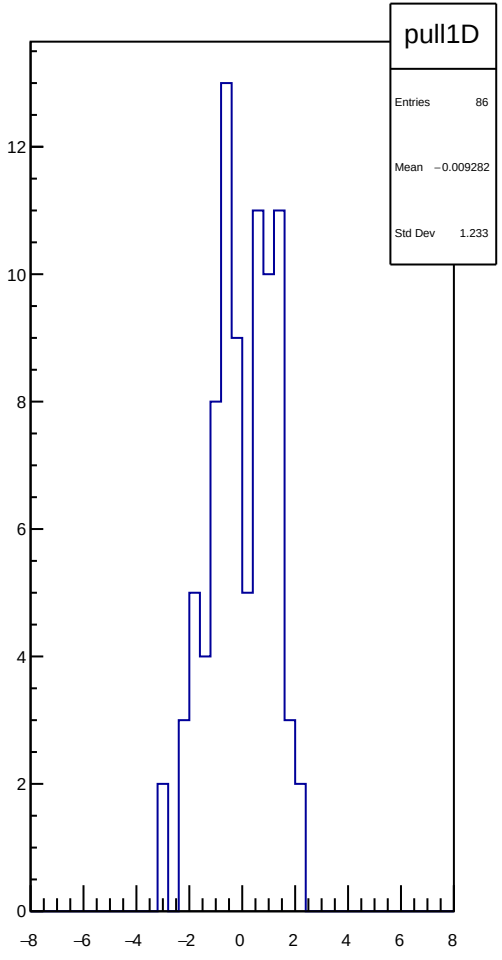

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 120.4 / 85
p0 19.42 ± 1.319
pull
Entries 86
Mean 182.7
Std Dev 211.2

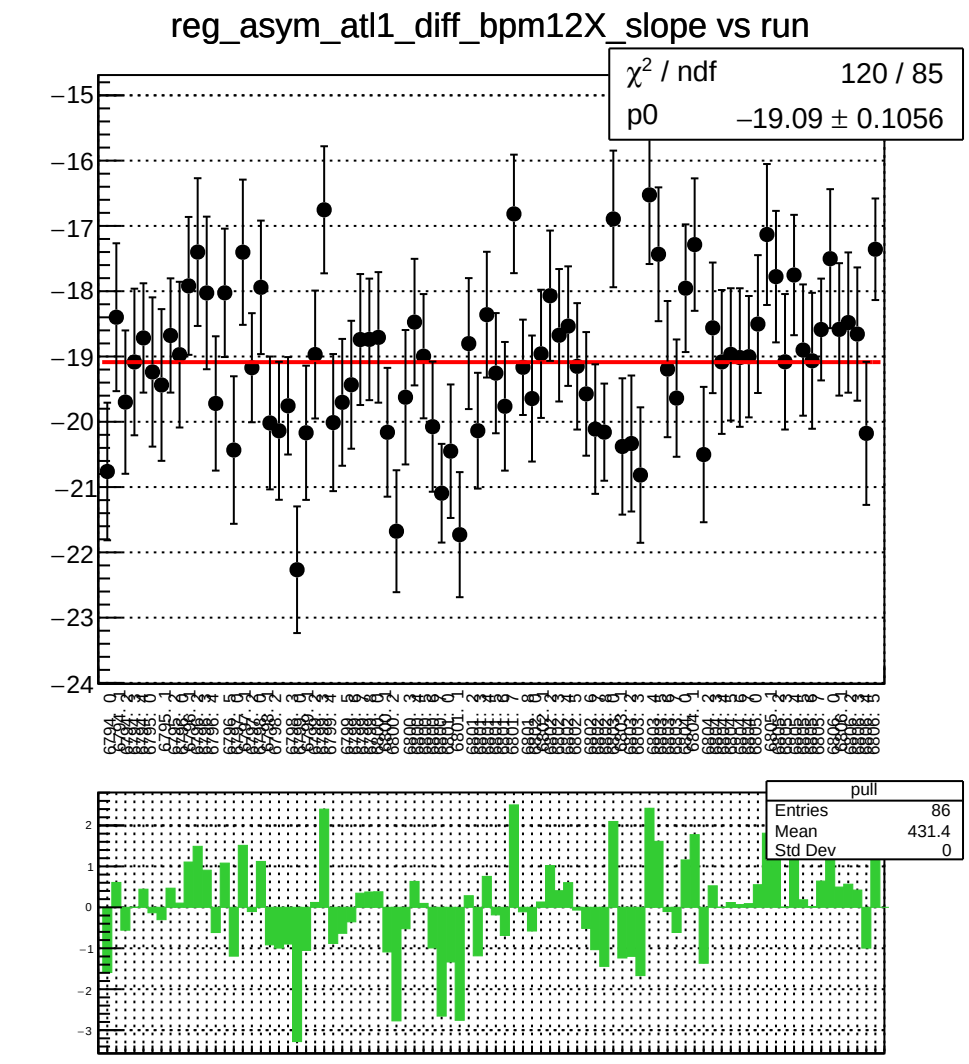

pull1D
Entries 86
Mean −0.00432
Std Dev 1.183

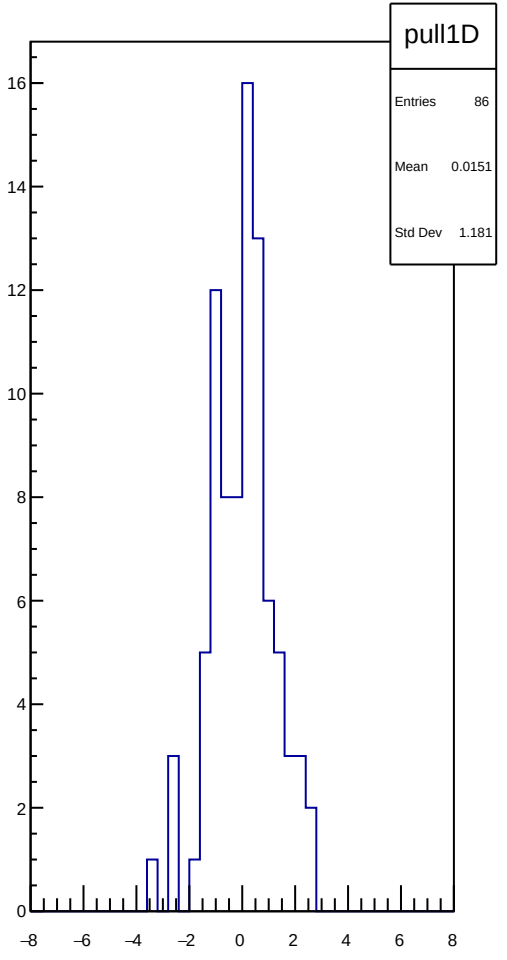

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 74.63 / 85
p0 66.47 ± 2.615
pull
Entries 86
Mean 70.67
Std Dev 0

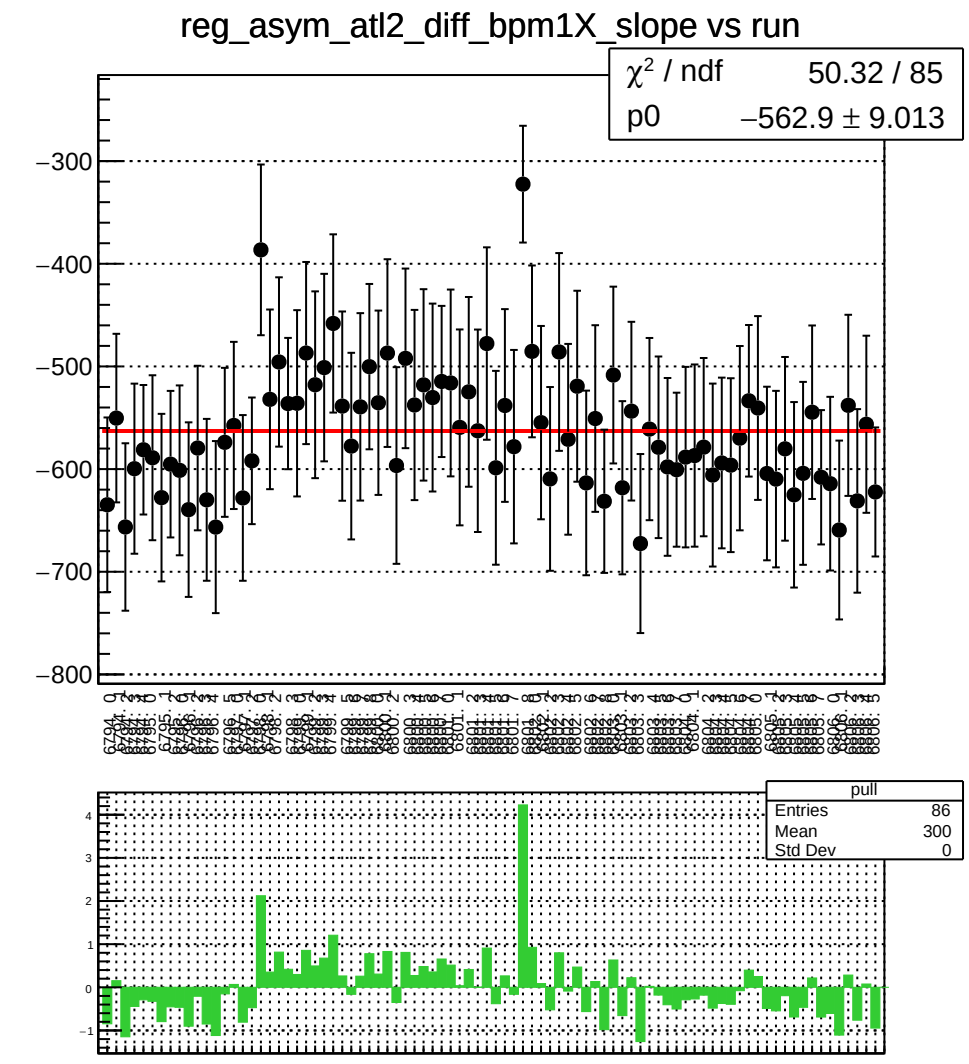

pull1D
Entries 86
Mean 0.01199
Std Dev 0.9315

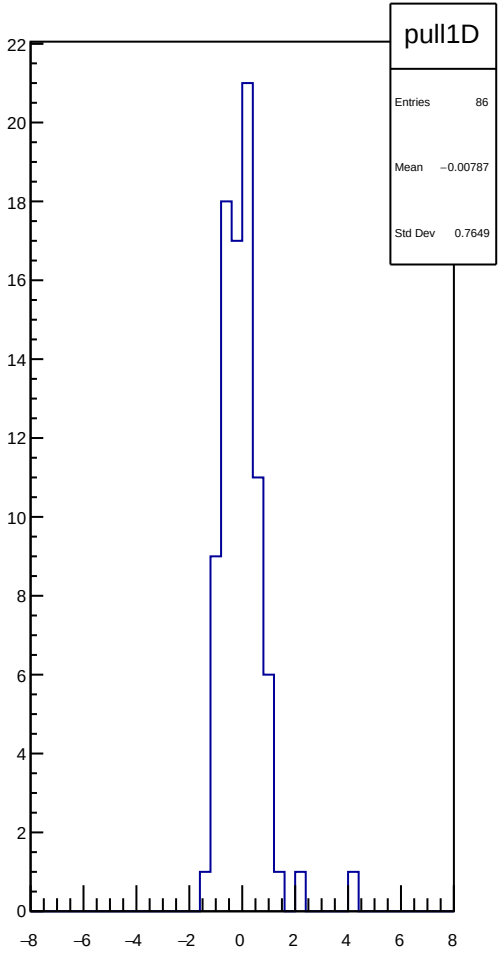

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 130.7 / 85
p0 −31.37 ± 1.836
pull
Entries 86
Mean −85.35
Std Dev 0

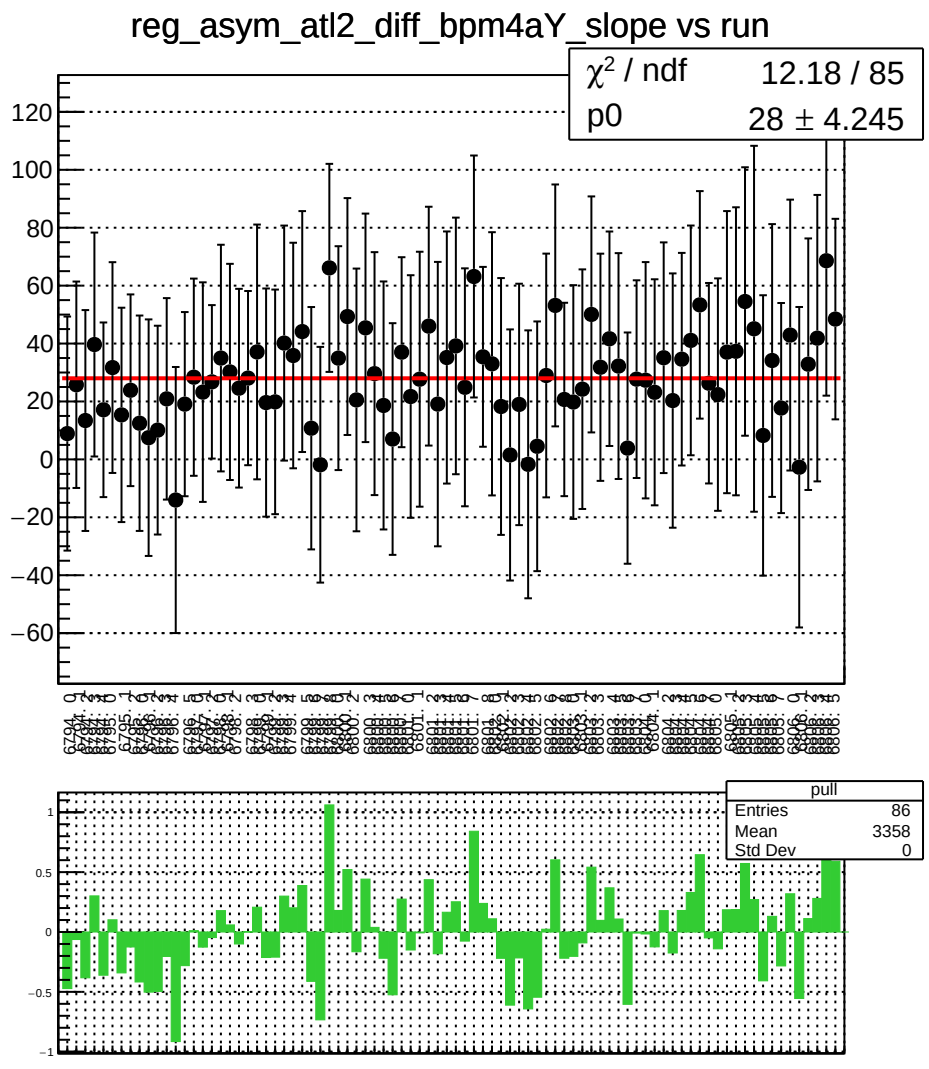

pull1D
Entries 86
Mean −0.009282
Std Dev 1.233

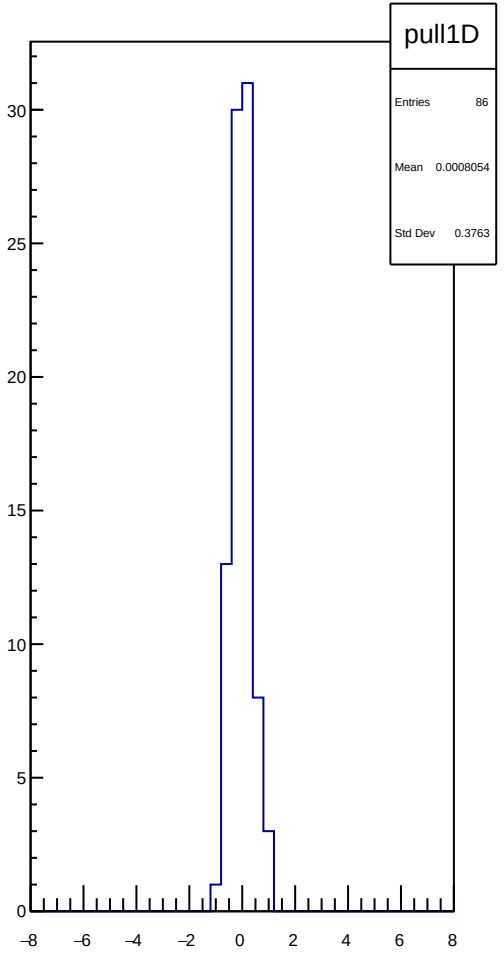

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 120 / 85
p0 −19.09 ± 0.1056
pull
Entries 86
Mean 431.4
Std Dev 0

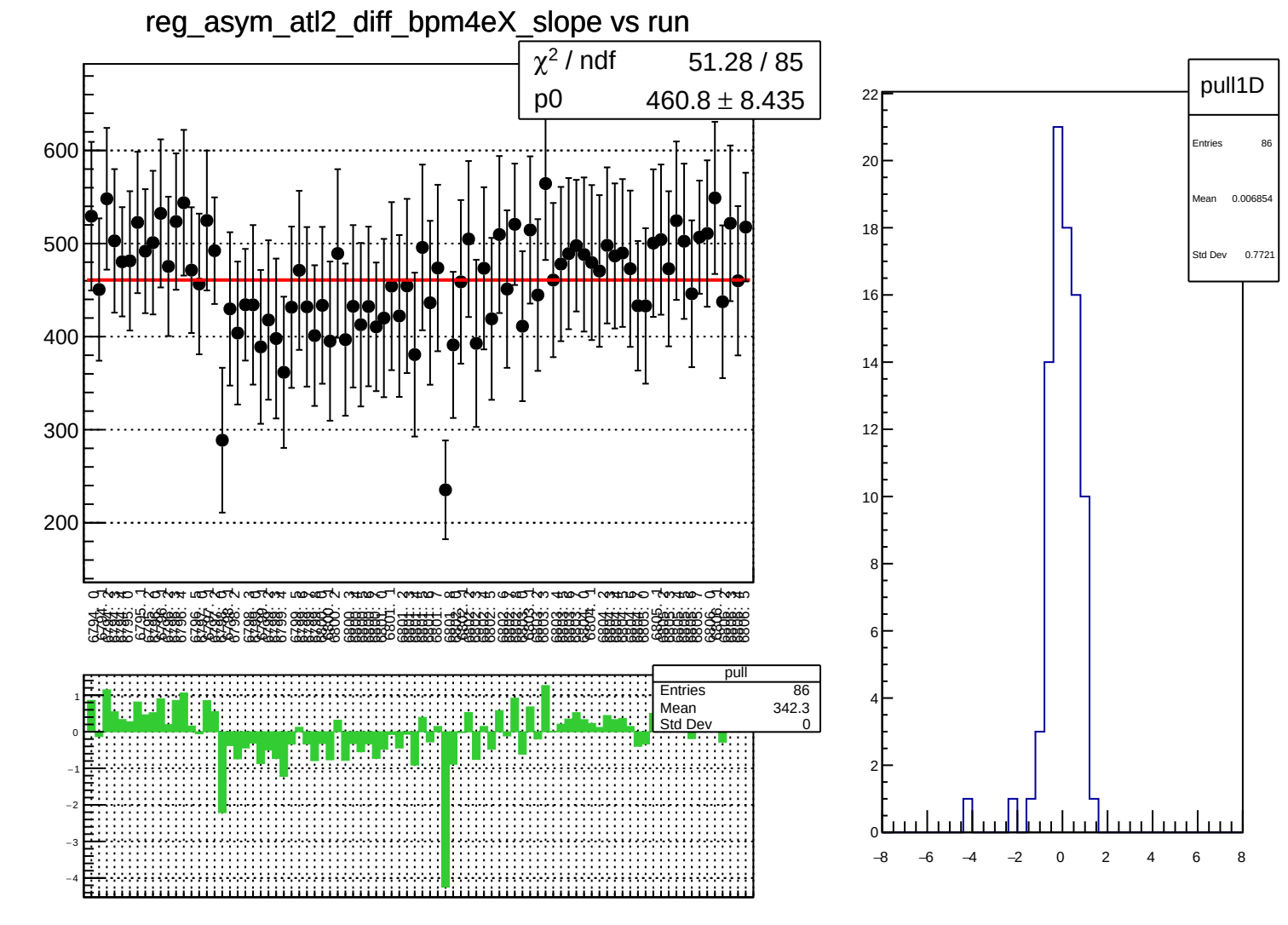

pull1D
Entries 86
Mean 0.0151
Std Dev 1.181

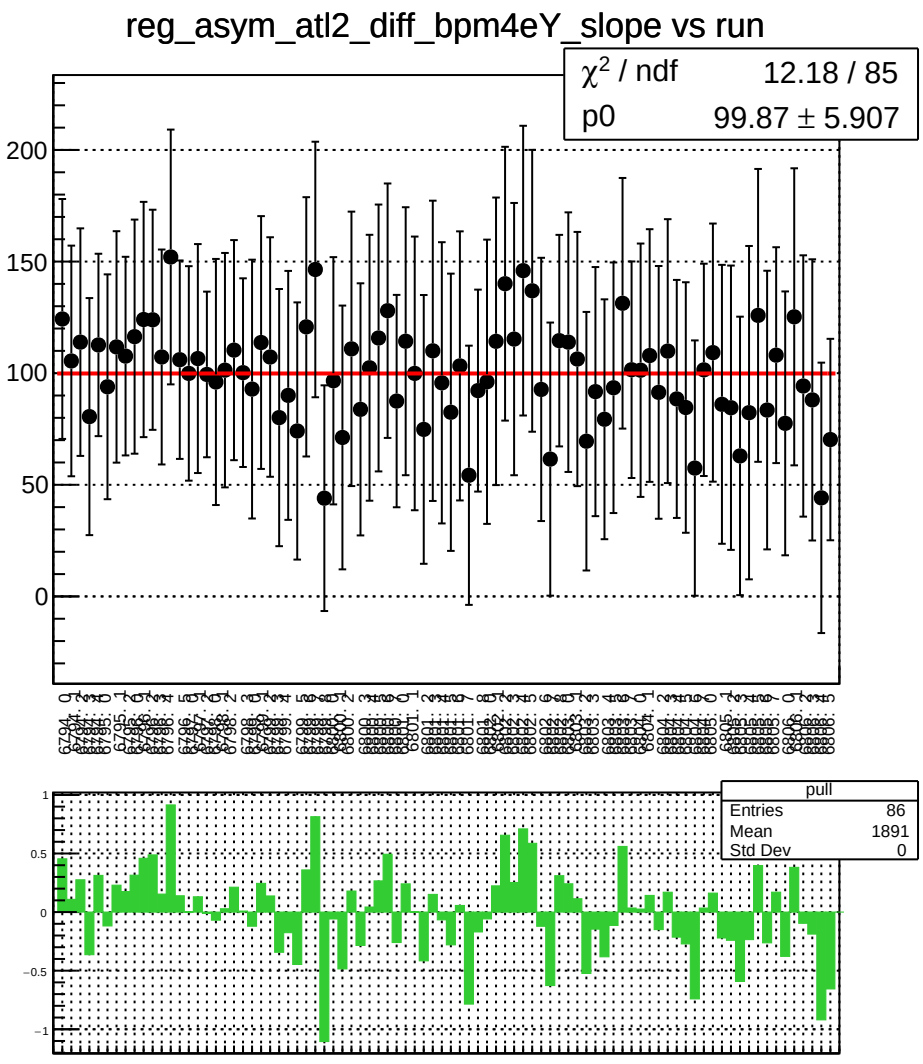

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 50.32 / 85
p0 −562.9 ± 9.013
pull
Entries 86
Mean 300
Std Dev 0

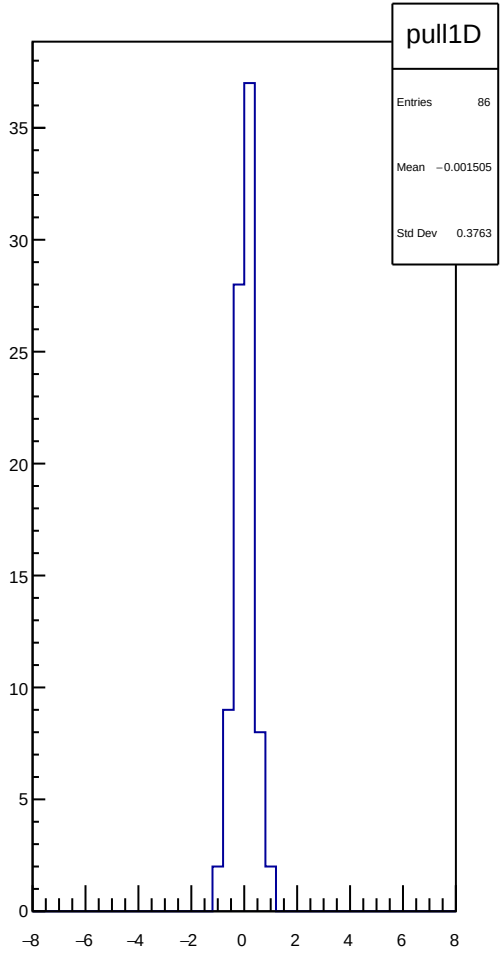

pull1D
Entries 86
Mean −0.00787
Std Dev 0.7649

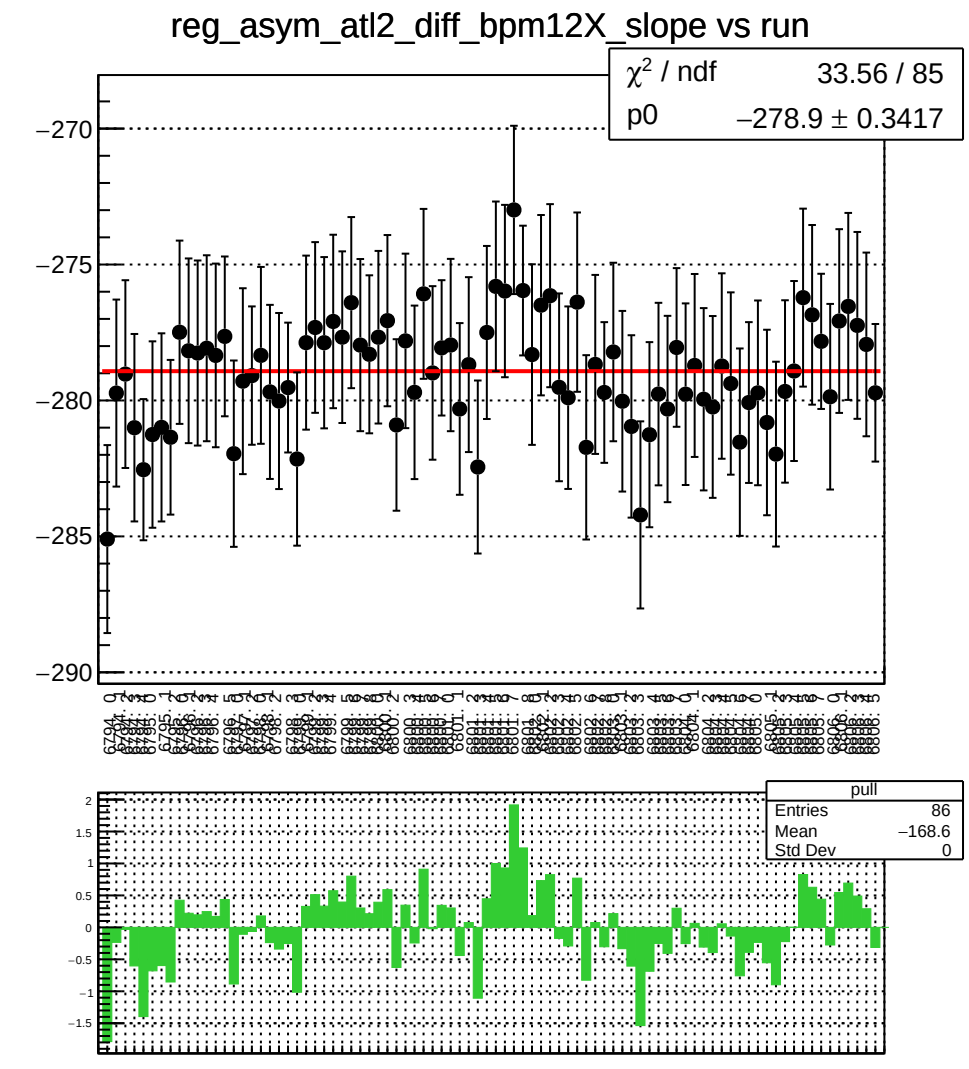

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.18 / 85
p0 28 ± 4.245
pull
Entries 86
Mean 3358
Std Dev 0

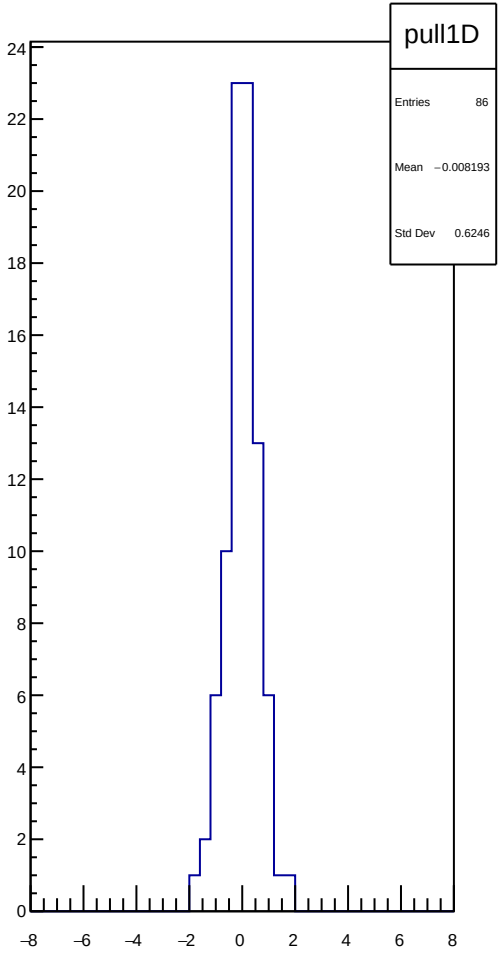

pull1D
Entries 86
Mean 0.0008054
Std Dev 0.3763

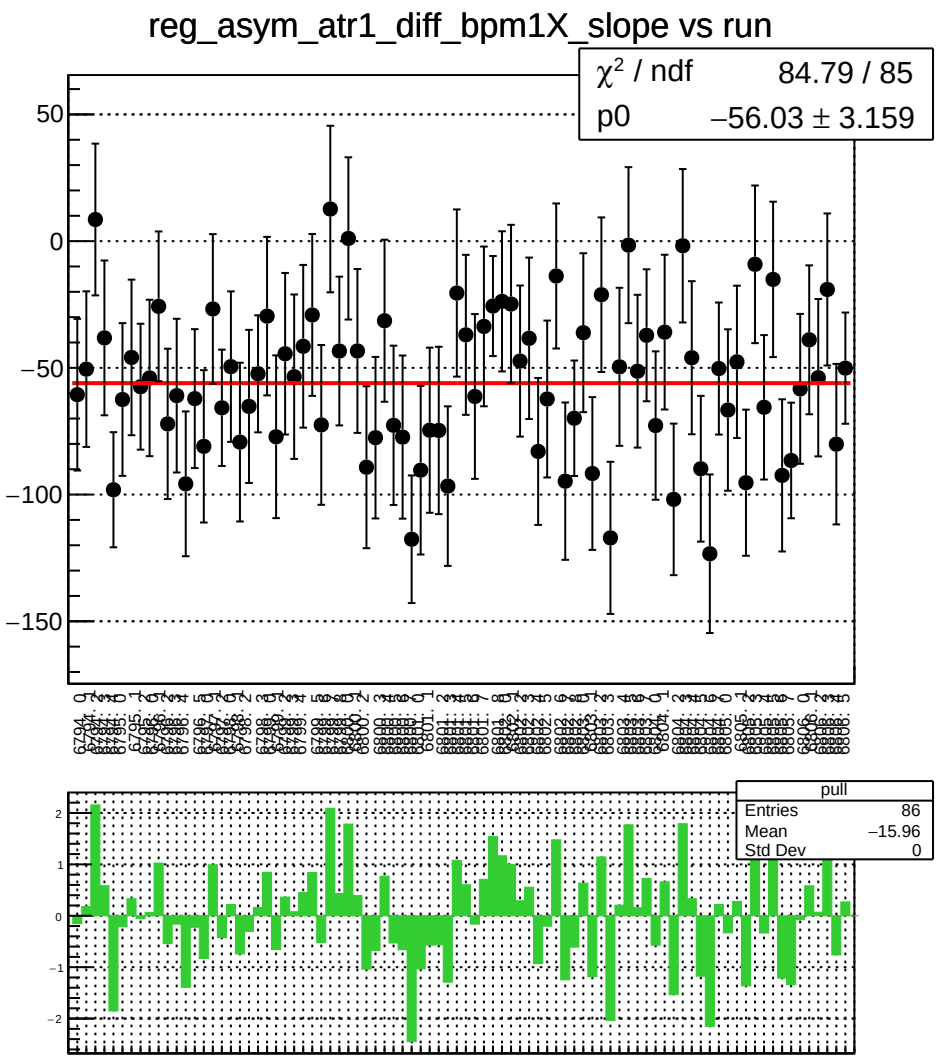

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 51.28 / 85
p0 460.8 ± 8.435
600
500
400
300
200
pull
Entries 86
Mean 342.3
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.006854
Std Dev 0.7721
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

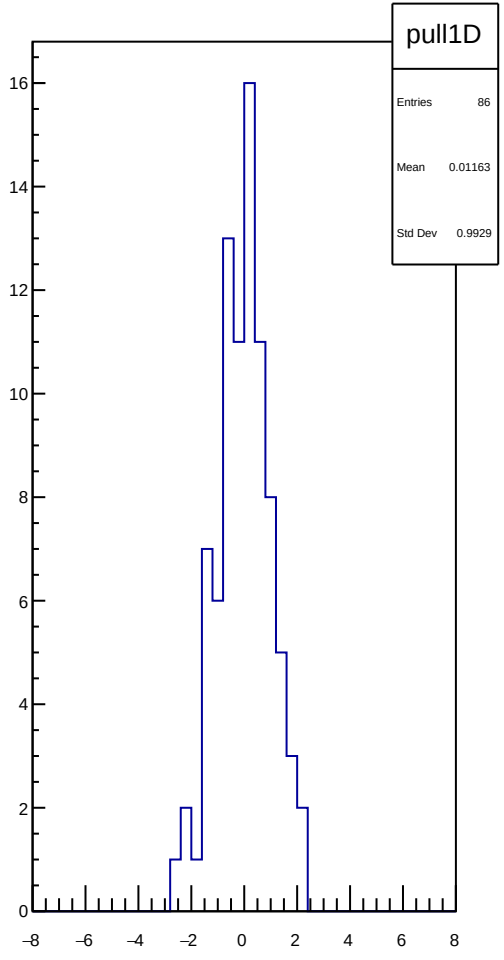

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 12.18 / 85
p0 99.87 ± 5.907
200
150
100
50
0
pull
Entries 86
Mean 1891
Std Dev 0
1
0.5
0
−0.5
−1

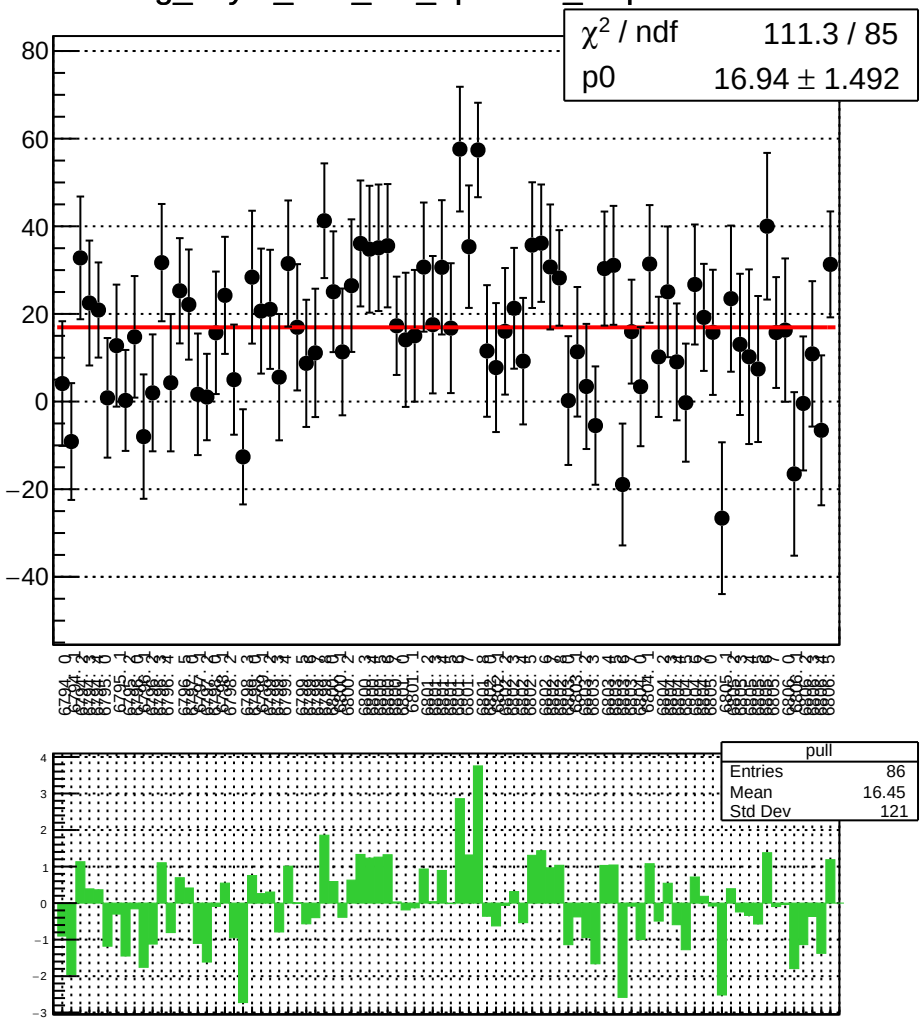

pull1D
Entries 86
Mean −0.001505
Std Dev 0.3763
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

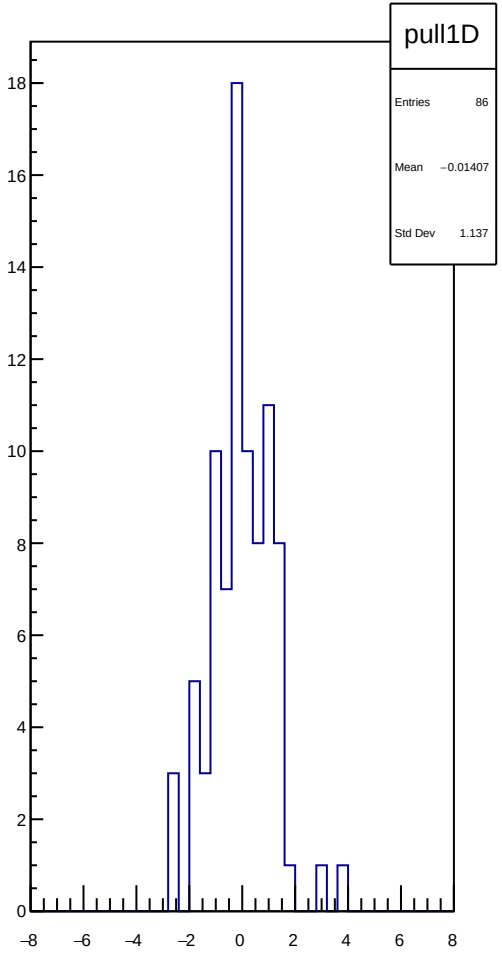

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 33.56 / 85
p0 −278.9 ± 0.3417
−270
−275
−280
−285
−290
pull
Entries 86
Mean −168.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

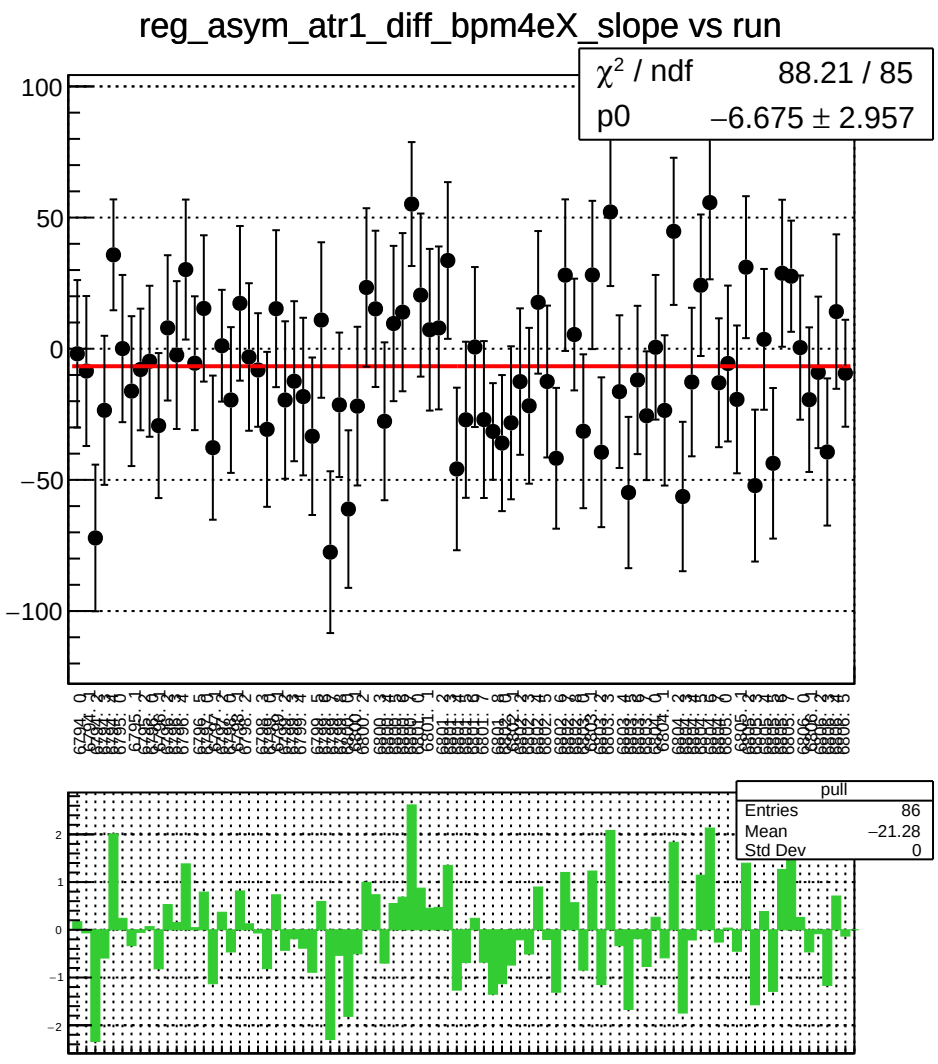

pull1D
Entries 86
Mean −0.008193
Std Dev 0.6246
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

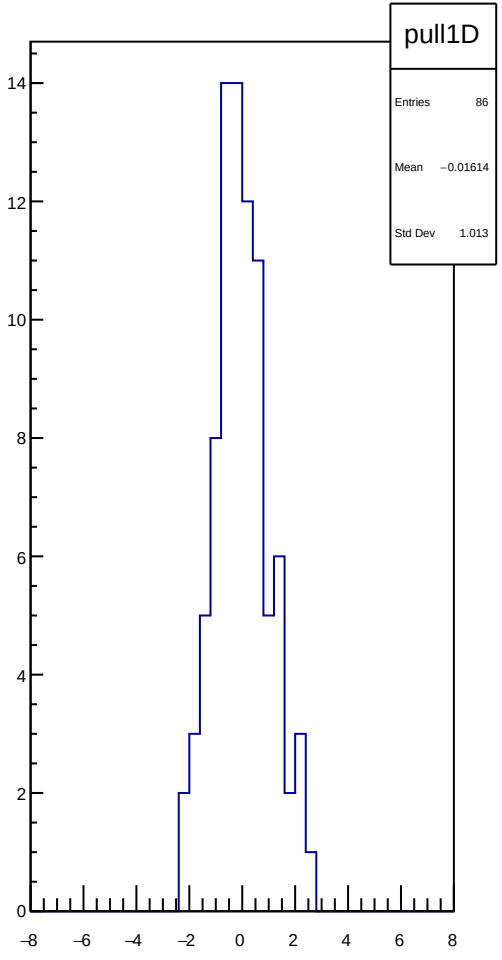

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 84.79 / 85
p0 −56.03 ± 3.159
50
0
−50
−100
−150
pull
Entries 86
Mean −15.96
Std Dev 0
2
1
0
−1
−2

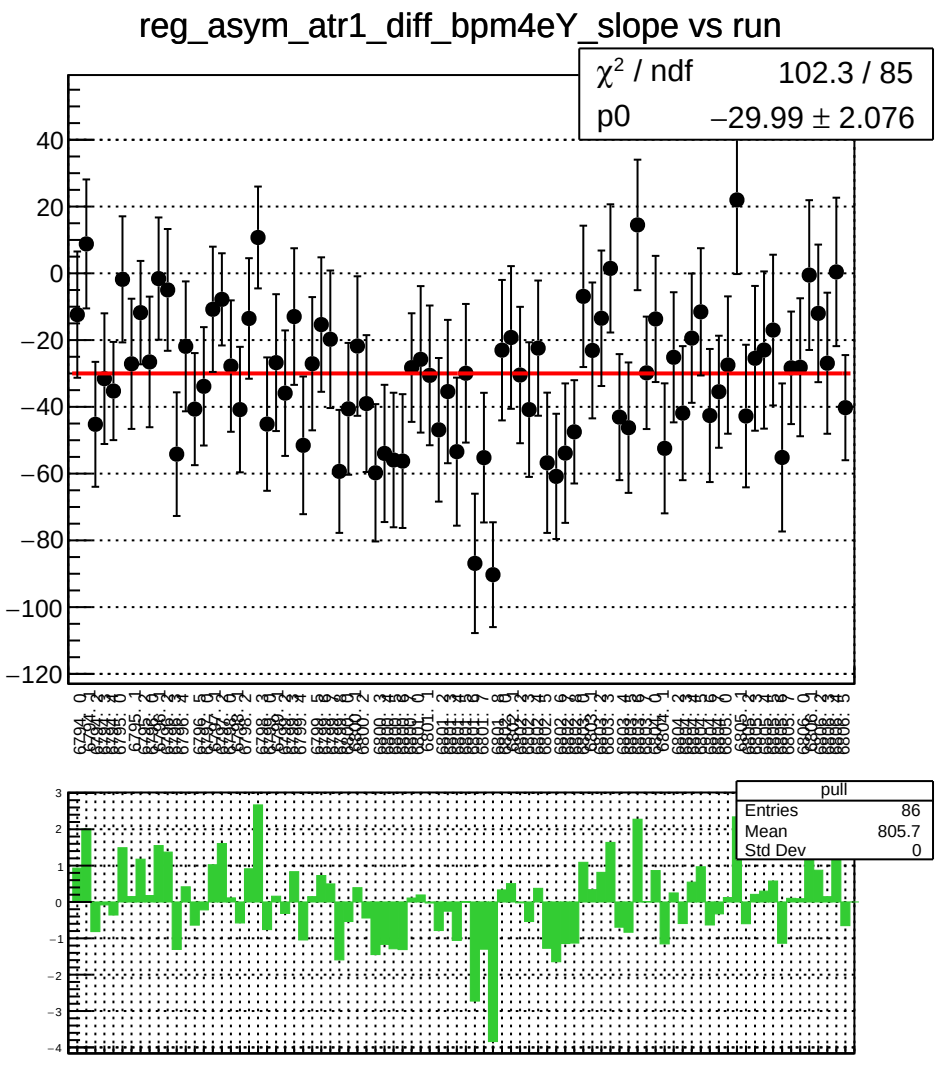

pull1D
Entries 86
Mean 0.01163
Std Dev 0.9929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

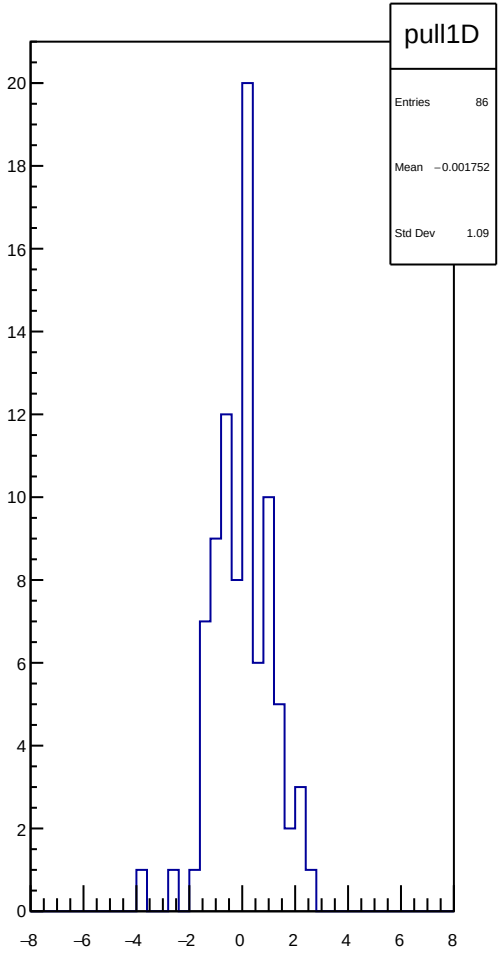

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 111.3 / 85
p0 16.94 ± 1.492
pull
Entries 86
Mean 16.45
Std Dev 121

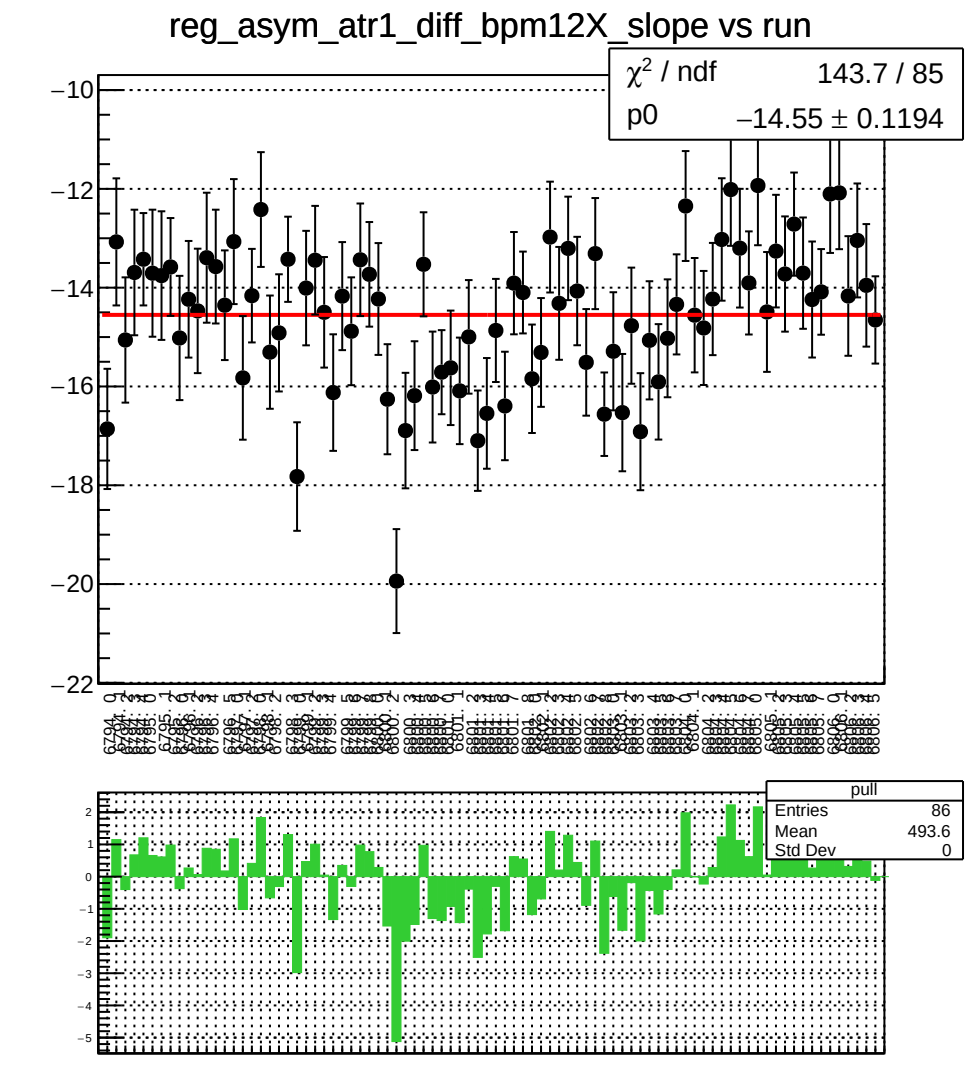

pull1D
Entries 86
Mean −0.01407
Std Dev 1.137

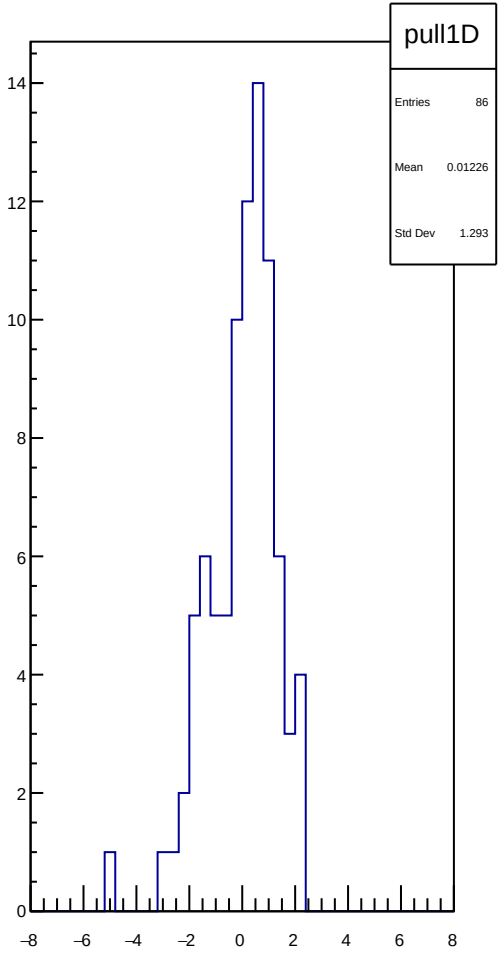

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 88.21 / 85
p0 −6.675 ± 2.957
pull
Entries 86
Mean −21.28
Std Dev 0

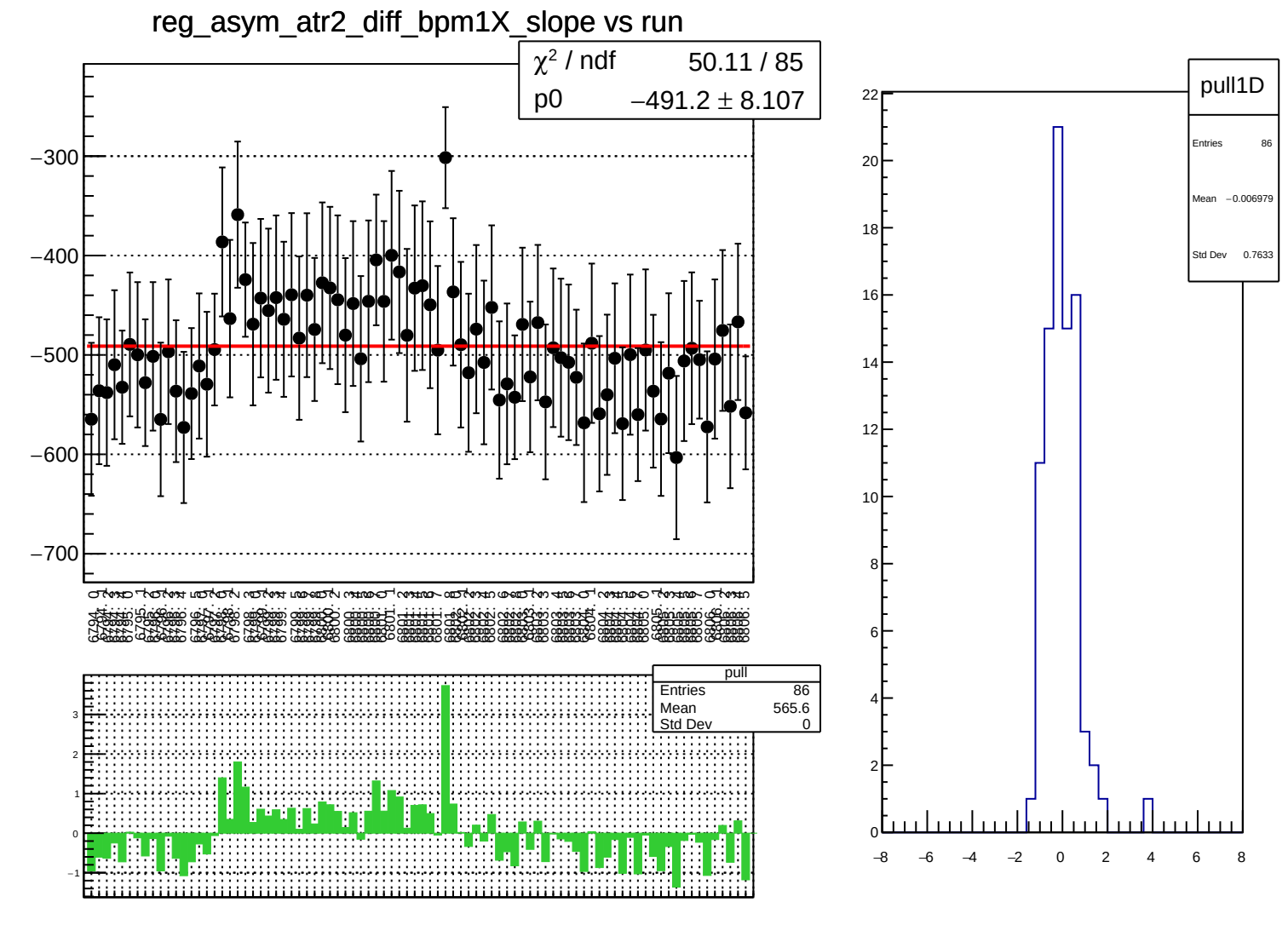

pull1D
Entries 86
Mean −0.01614
Std Dev 1.013

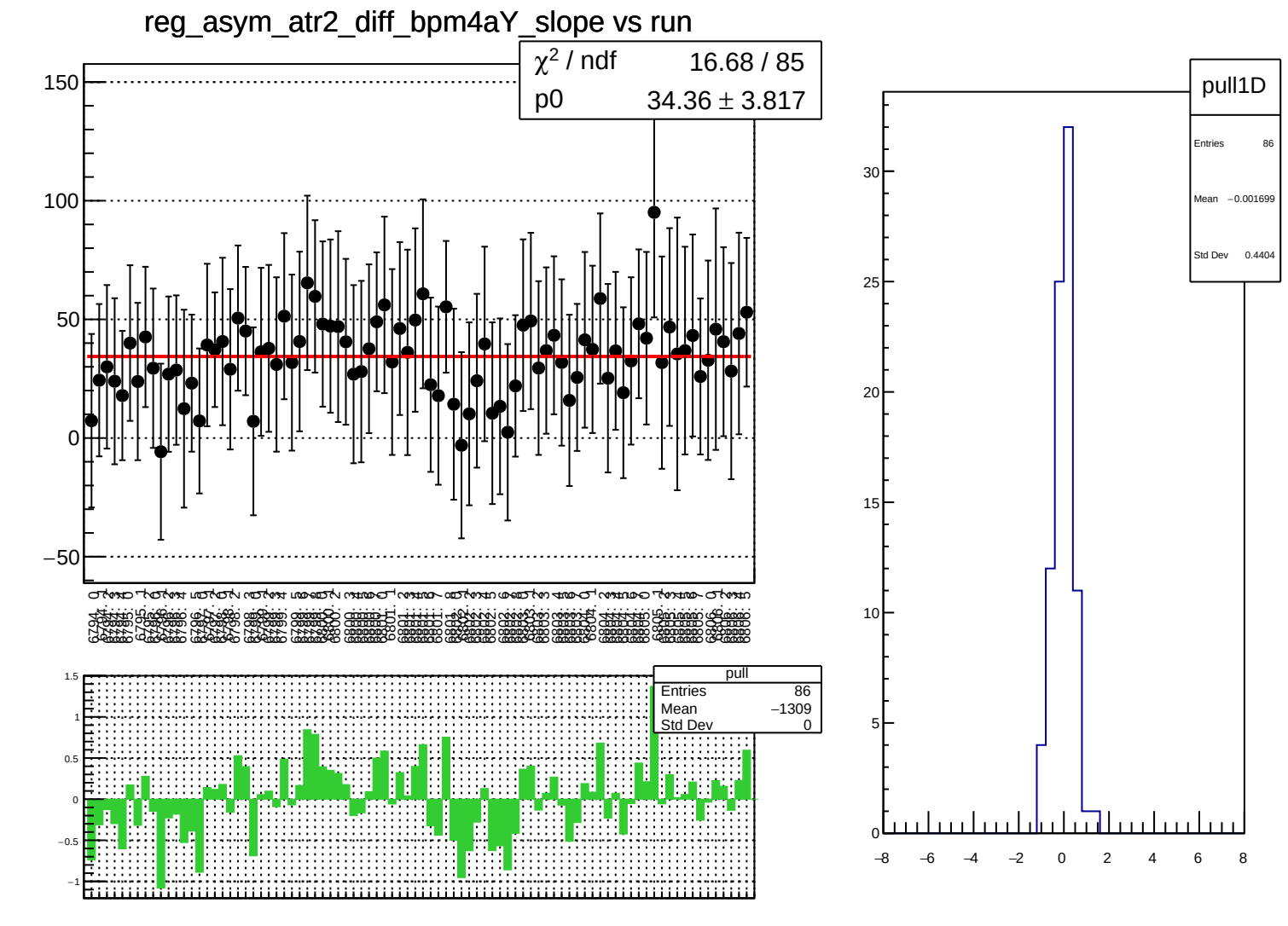

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 85
p0 −29.99 ± 2.076
pull
Entries 86
Mean 805.7
Std Dev 0

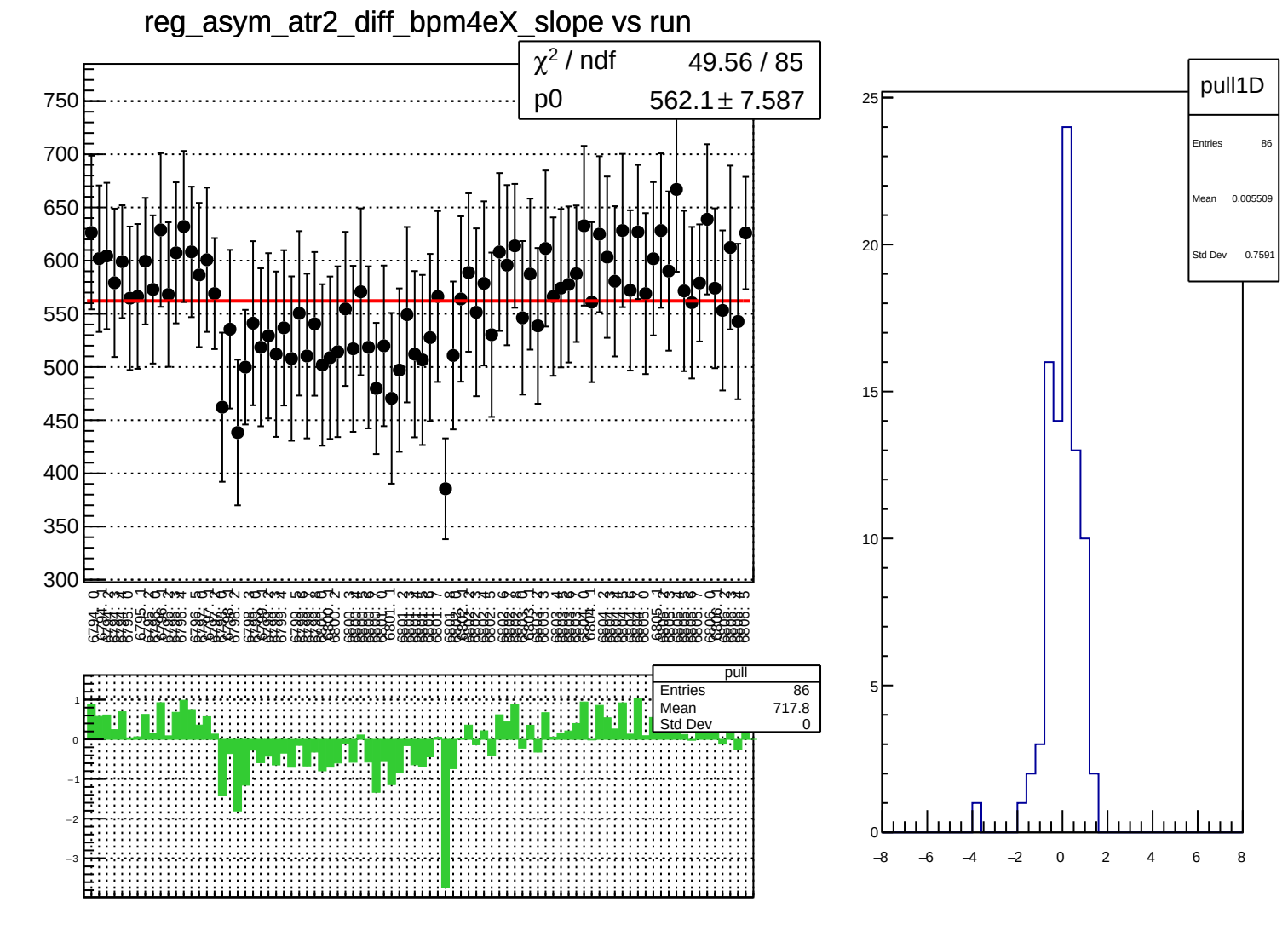

pull1D
Entries 86
Mean −0.001752
Std Dev 1.09

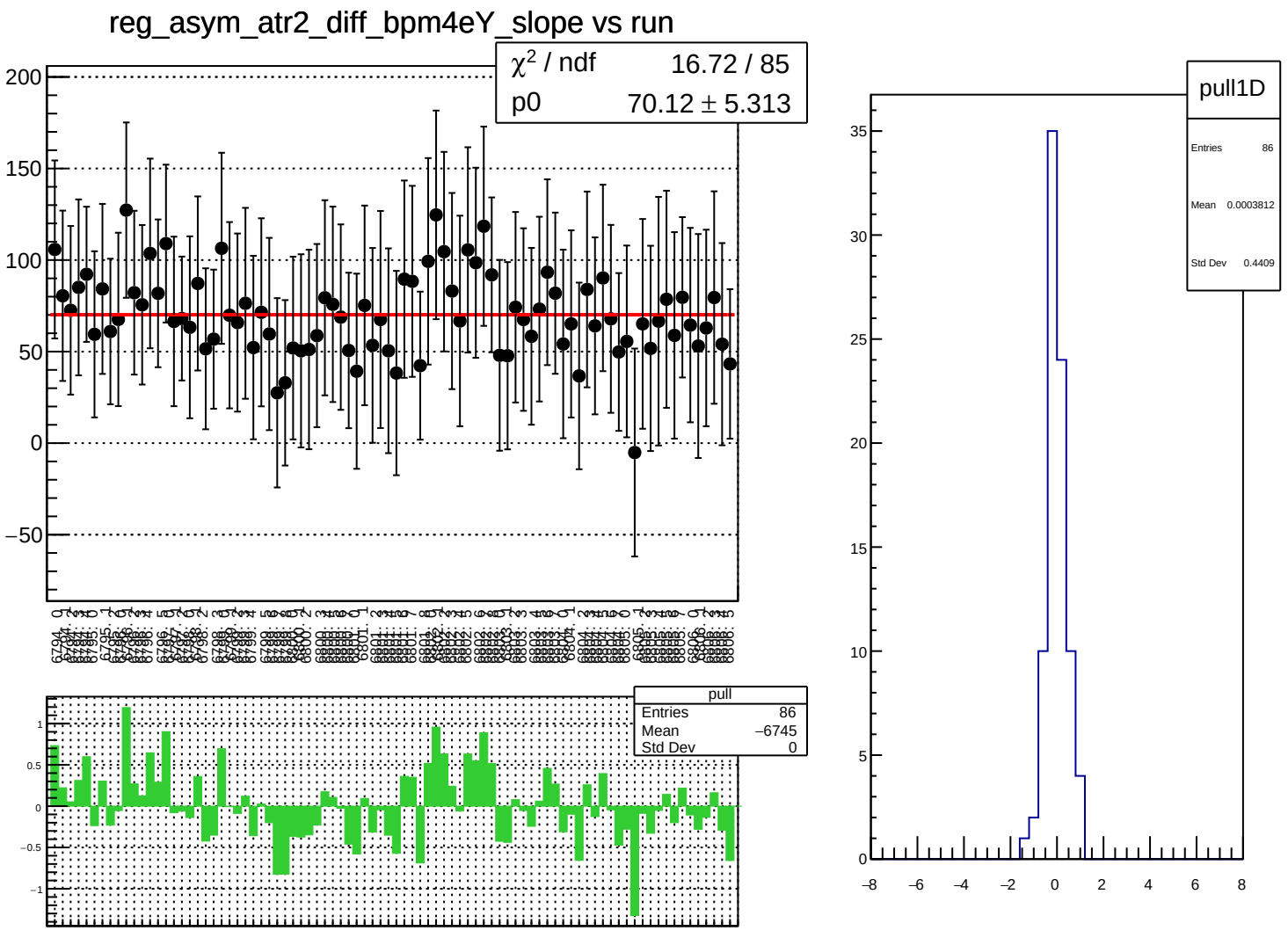

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 143.7 / 85
p0 −14.55 ± 0.1194
pull
Entries 86
Mean 493.6
Std Dev 0

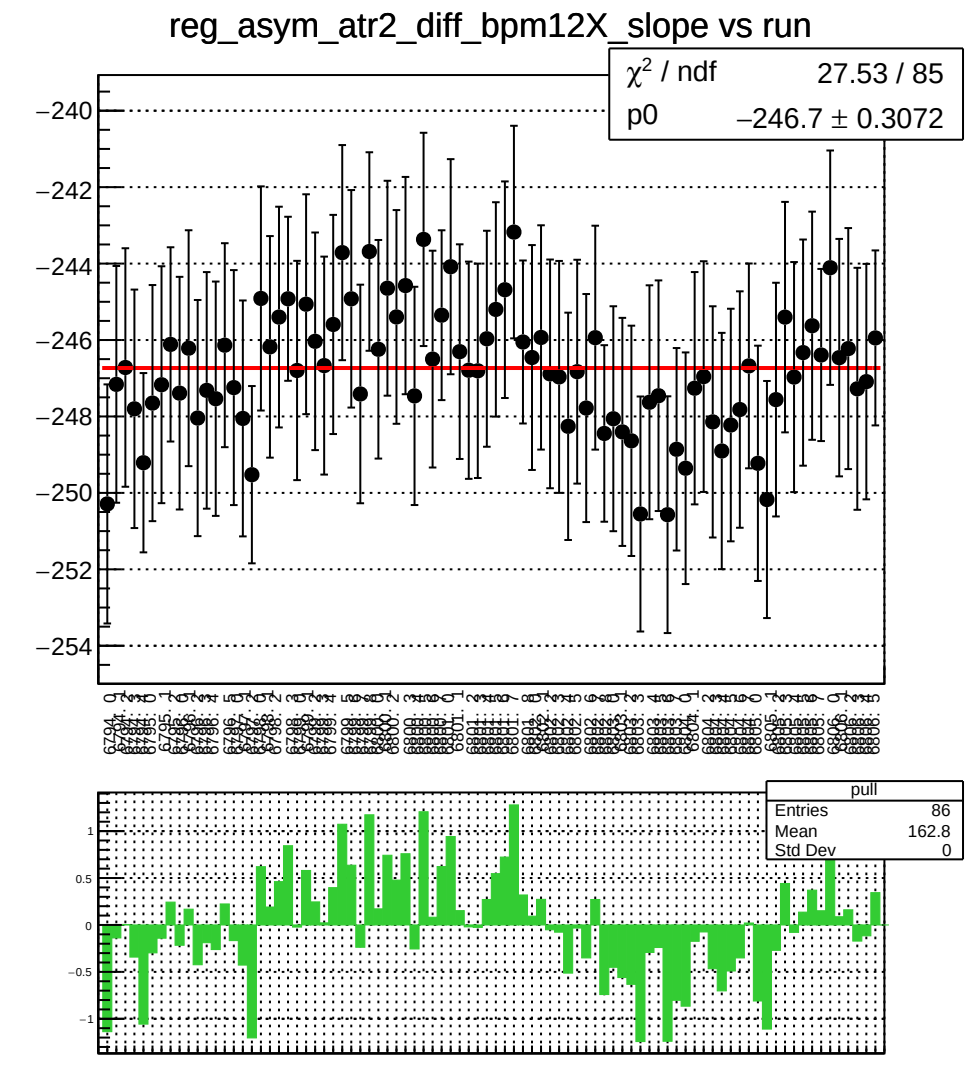

pull1D
Entries 86
Mean 0.01226
Std Dev 1.293

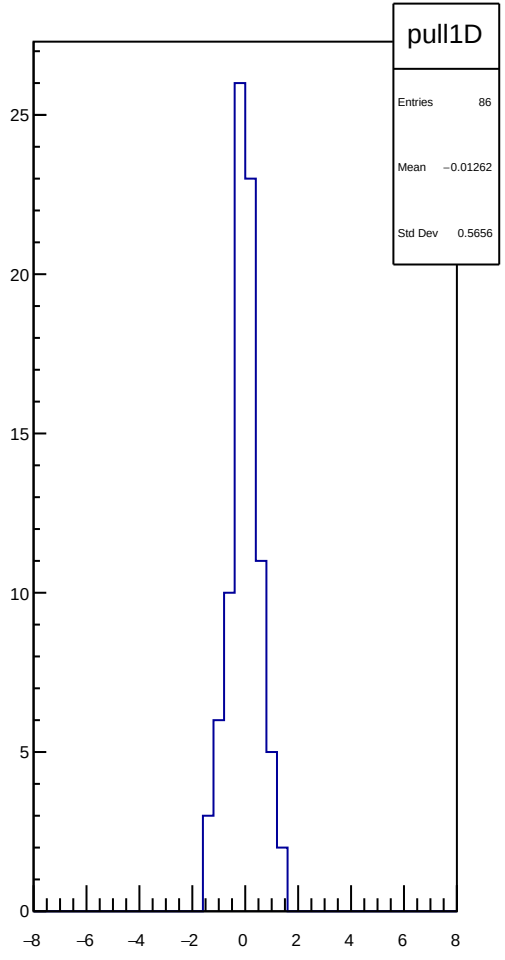

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 50.11 / 85
p0 −491.2 ± 8.107
−300
−400
−500
−600
−700
pull
Entries 86
Mean 565.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 86
Mean −0.006979
Std Dev 0.7633
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

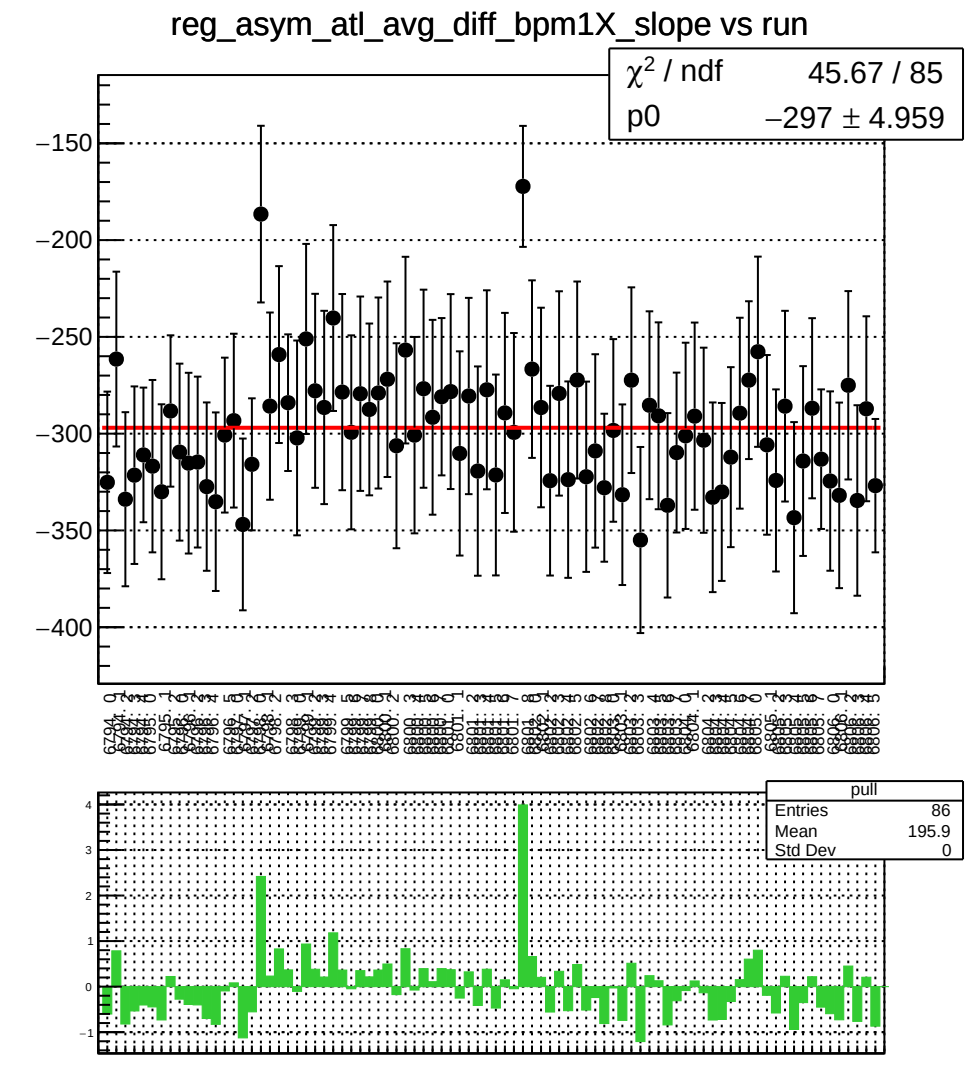

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 16.68 / 85
p0 34.36 ± 3.817
150
100
50
0
−50
pull
Entries 86
Mean −1309
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.001699
Std Dev 0.4404
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

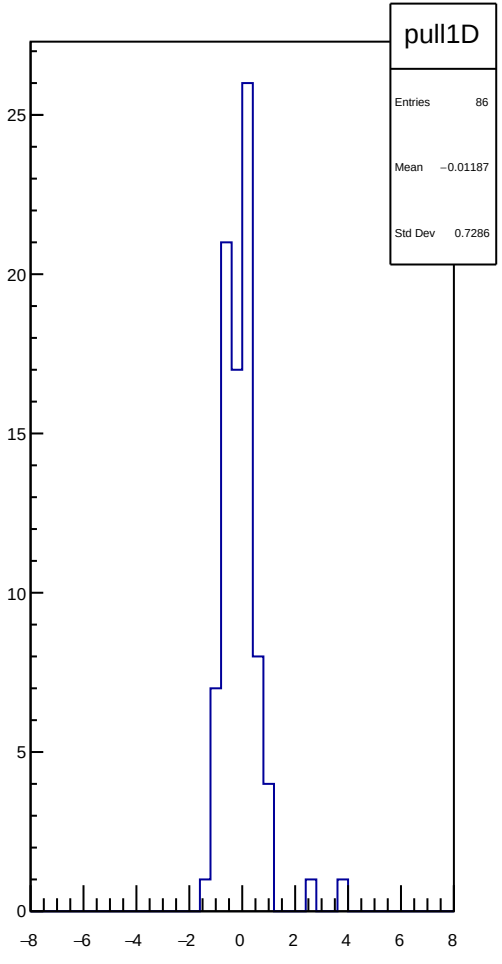

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 49.56 / 85
p0 562.1 ± 7.587
pull
Entries 86
Mean 717.8
Std Dev 0
pull1D
Entries 86
Mean 0.005509
Std Dev 0.7591

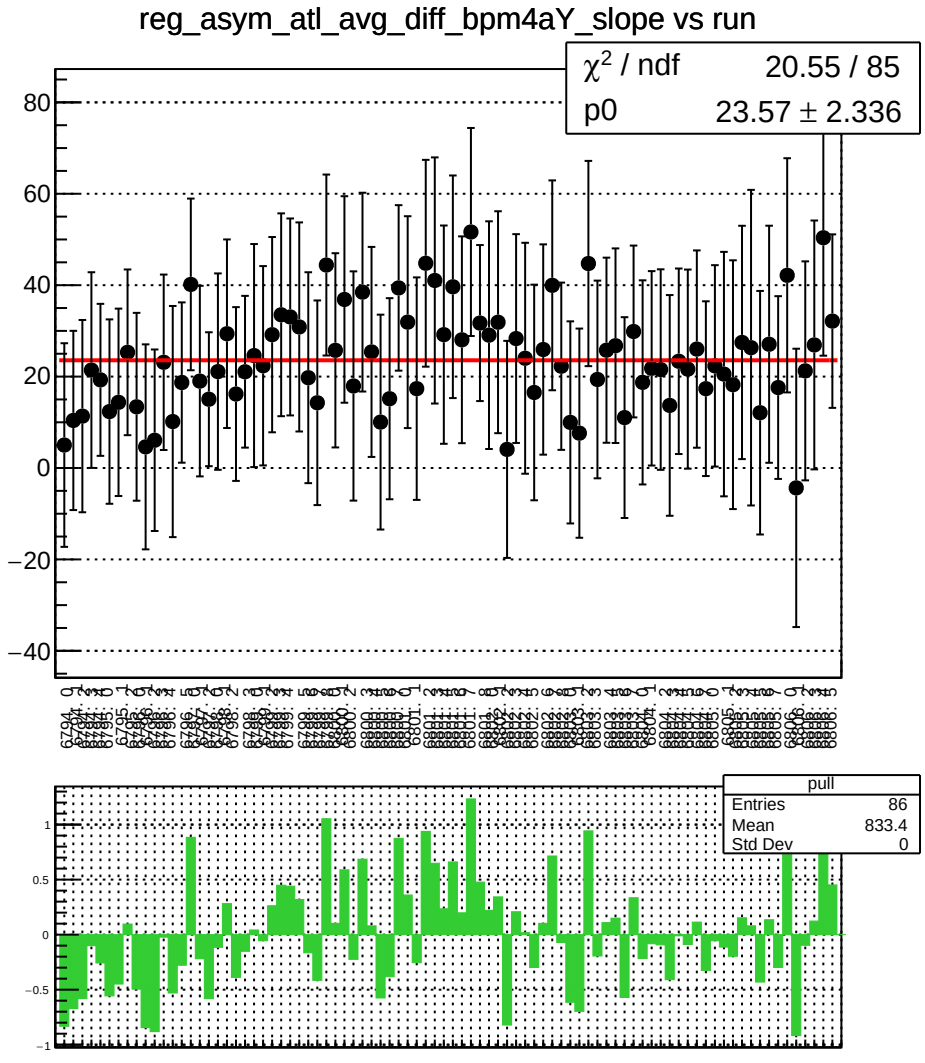

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 16.72 / 85
p0 70.12 ± 5.313
pull
Entries 86
Mean −6745
Std Dev 0
pull1D
Entries 86
Mean 0.0003812
Std Dev 0.4409

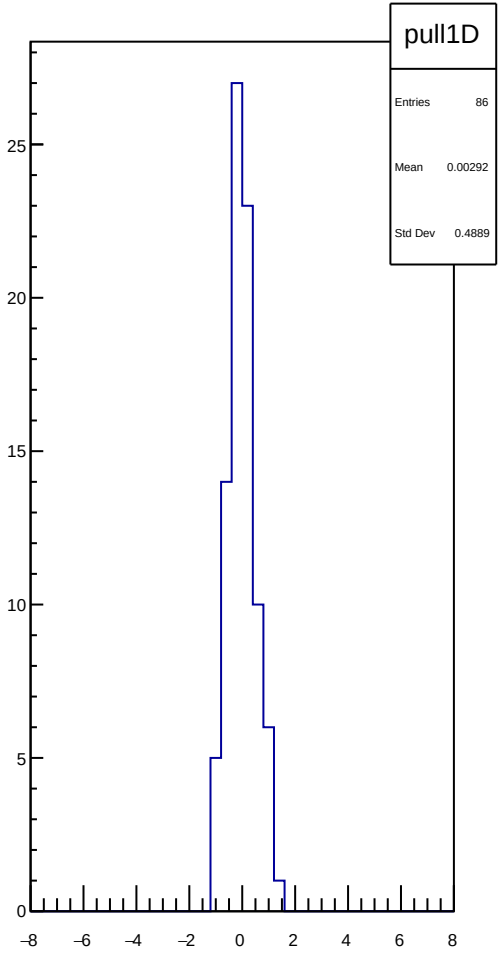

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 27.53 / 85
p0 −246.7 ± 0.3072
−240
−242
−244
−246
−248
−250
−252
−254
pull
Entries 86
Mean 162.8
Std Dev 0
1
0.5
0
−0.5
−1

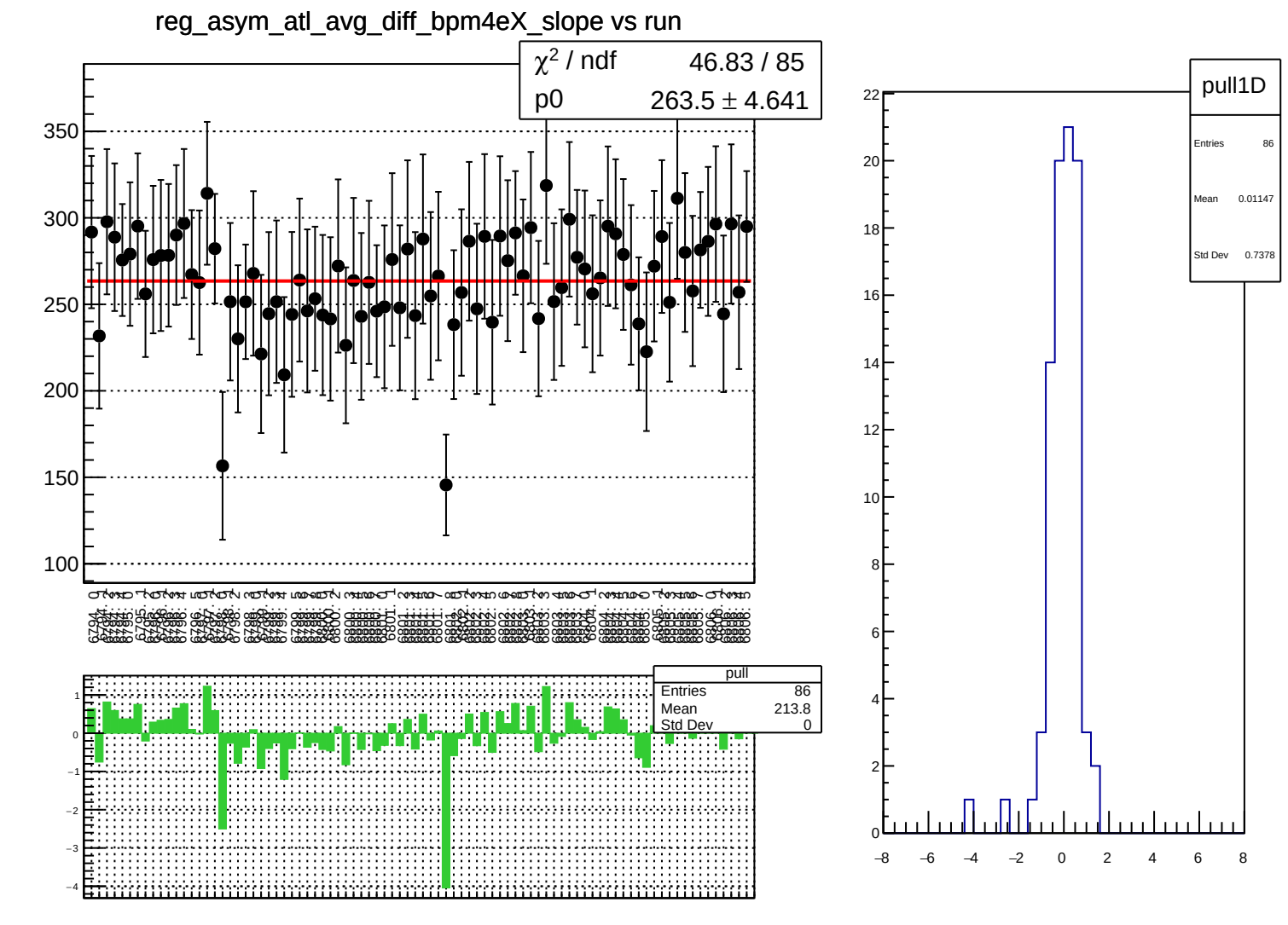

pull1D
Entries 86
Mean −0.01262
Std Dev 0.5656
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

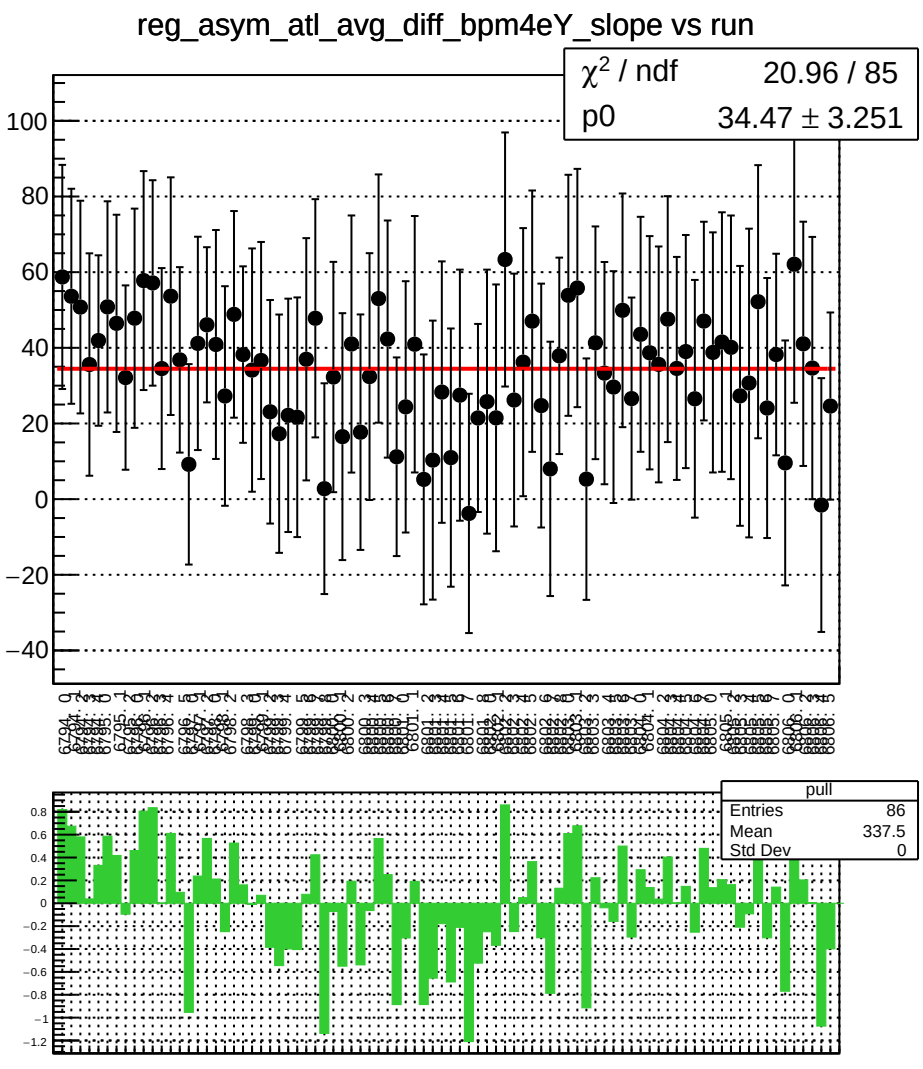

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 45.67 / 85
p0 −297 ± 4.959
pull
Entries 86
Mean 195.9
Std Dev 0

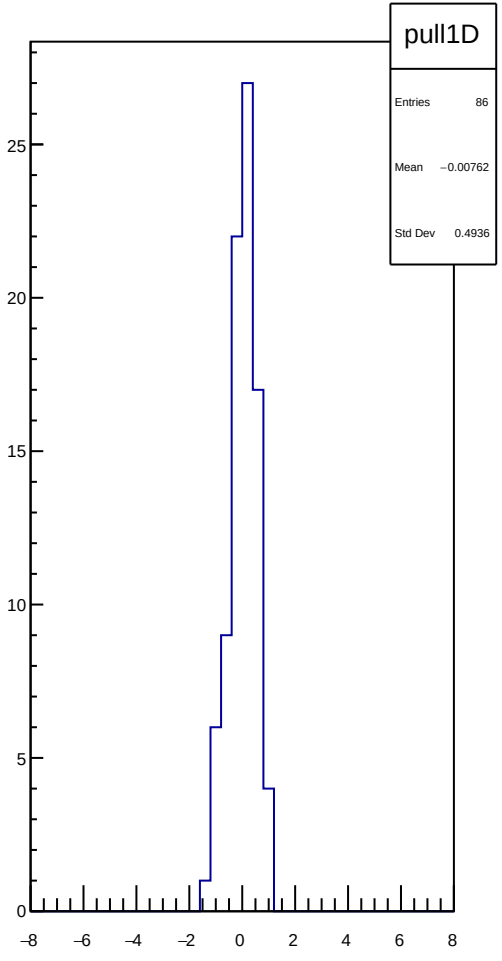

pull1D
Entries 86
Mean −0.01187
Std Dev 0.7286

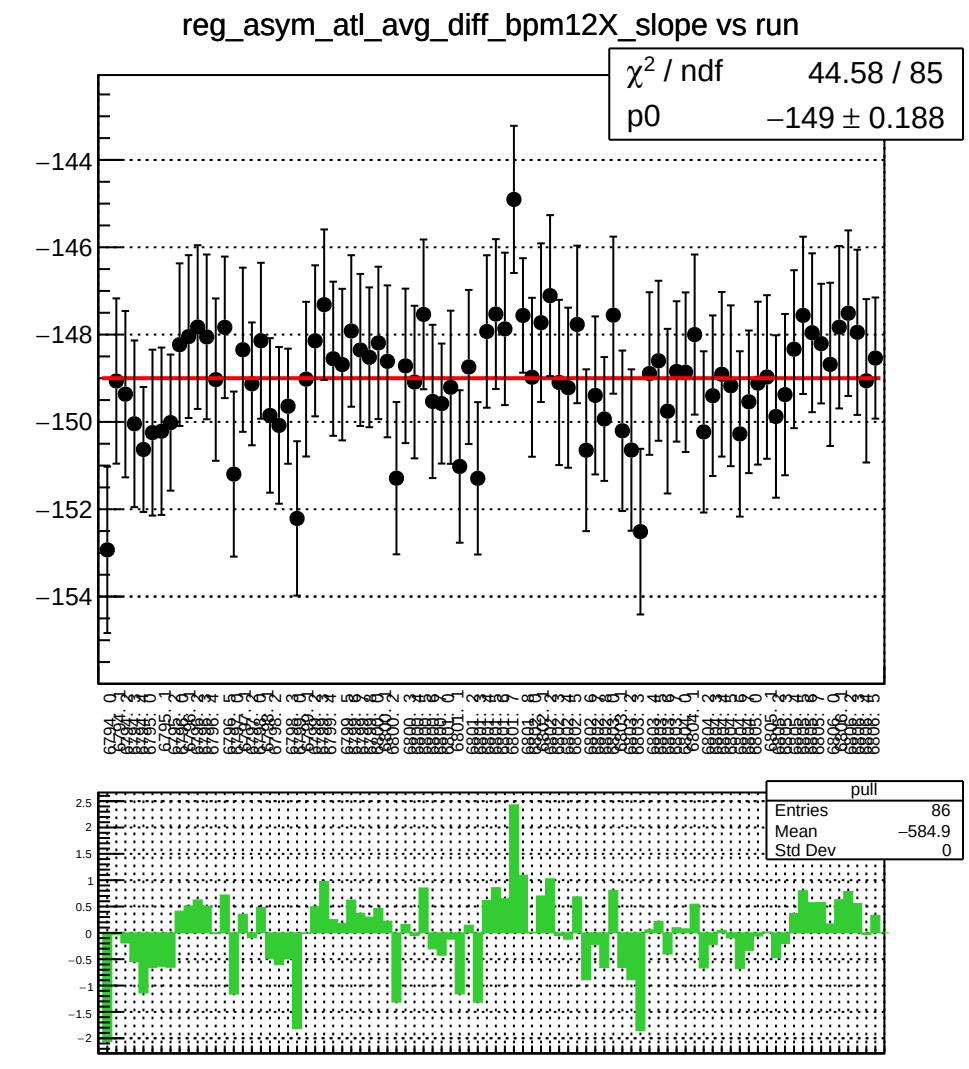

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.55 / 85
p0 23.57 ± 2.336
pull
Entries 86
Mean 833.4
Std Dev 0

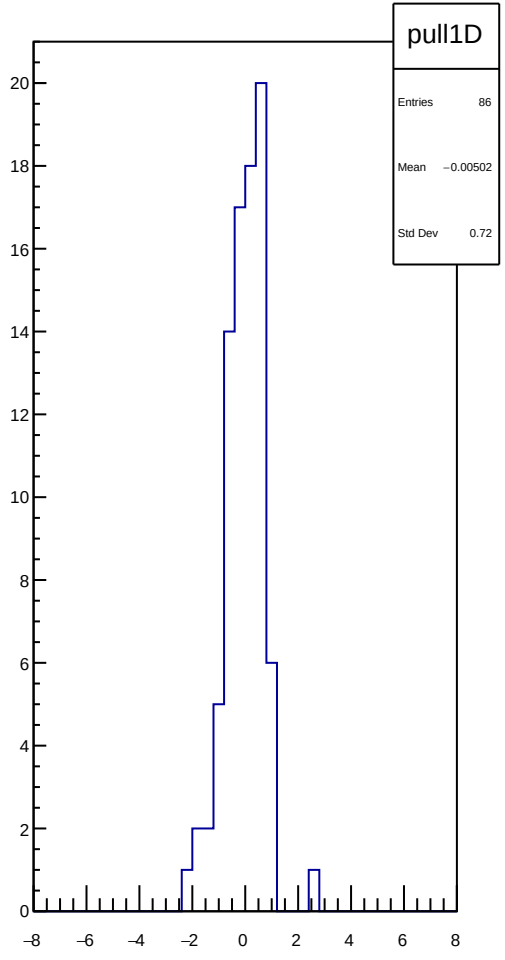

pull1D
Entries 86
Mean 0.00292
Std Dev 0.4889

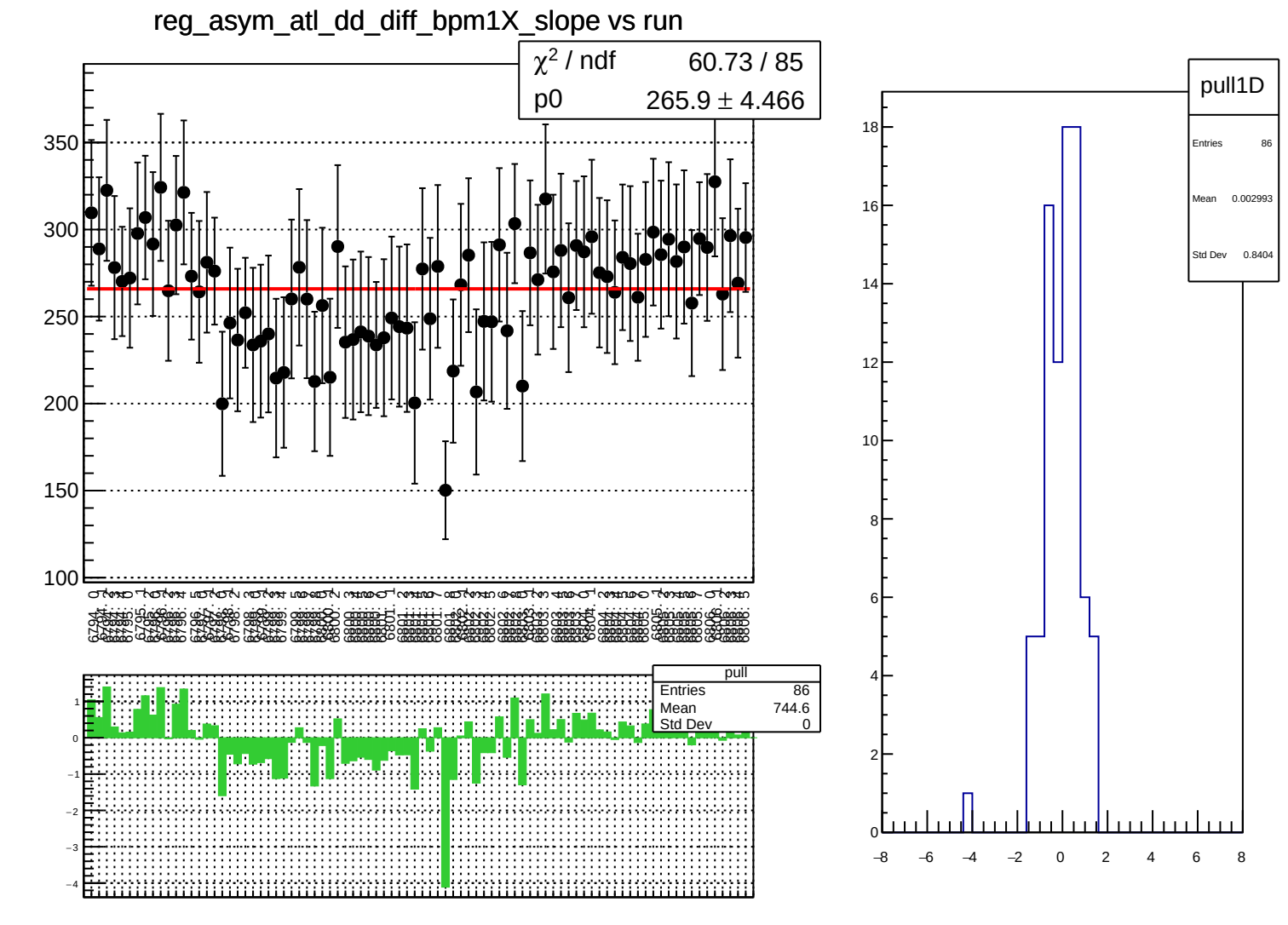

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 46.83 / 85
p0 263.5 ± 4.641
pull
Entries 86
Mean 213.8
Std Dev 0
pull1D
Entries 86
Mean 0.01147
Std Dev 0.7378

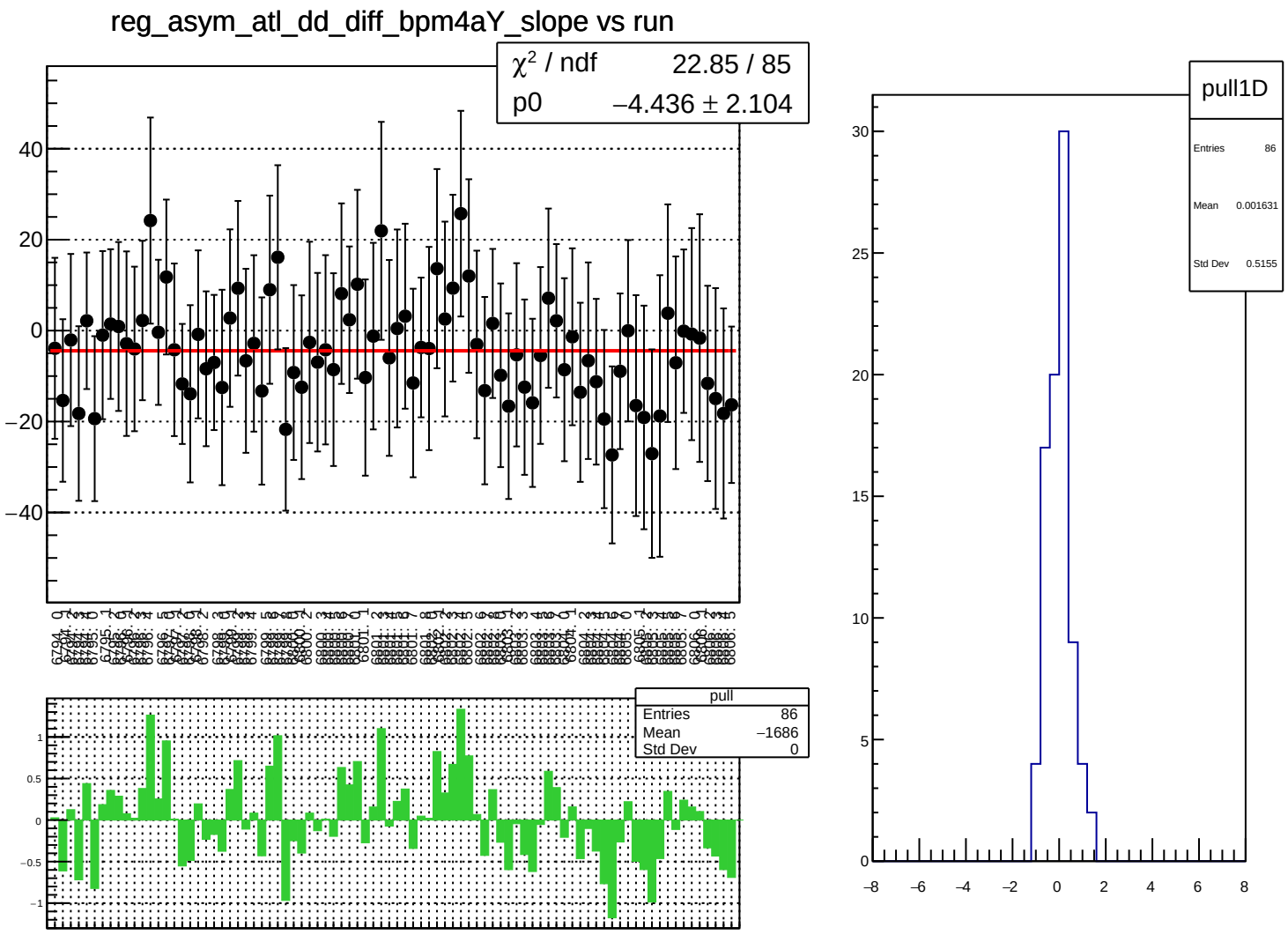

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.96 / 85
p0 34.47 ± 3.251
pull
Entries 86
Mean 337.5
Std Dev 0

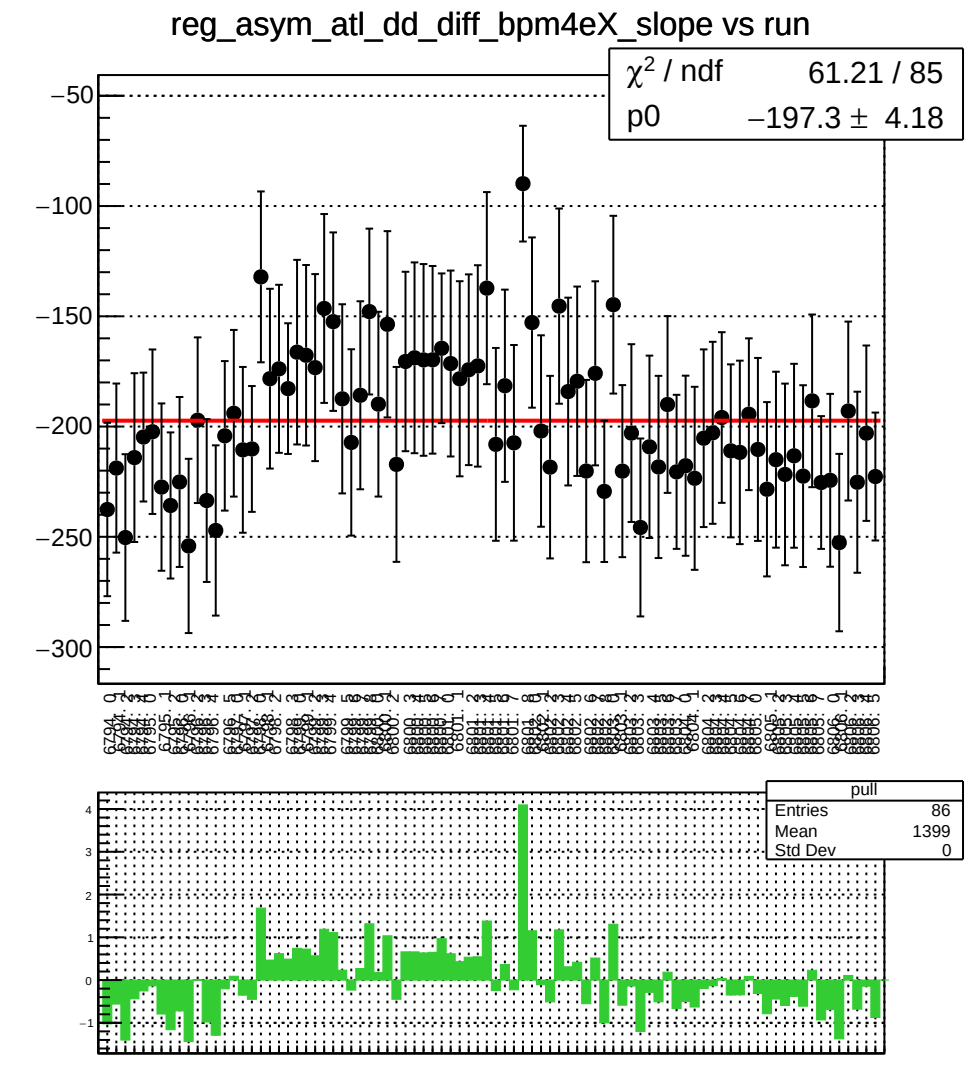

pull1D
Entries 86
Mean −0.00762
Std Dev 0.4936

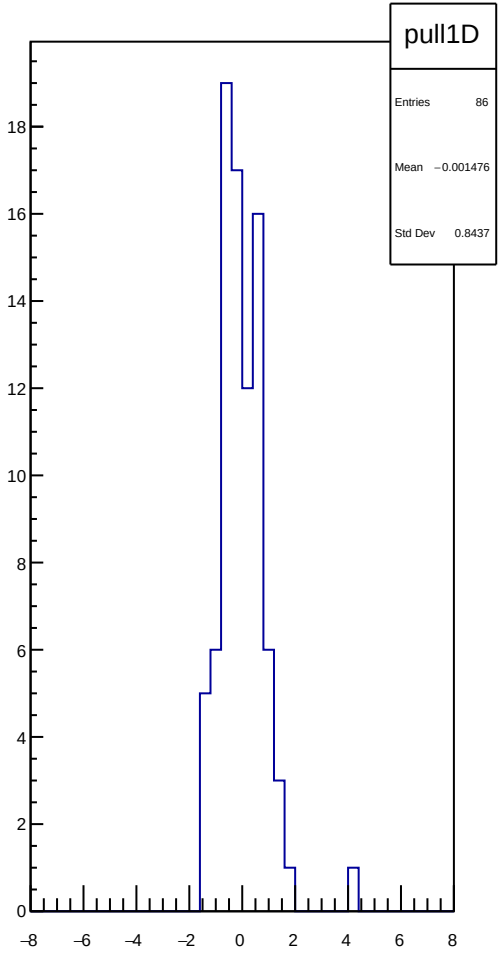

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 44.58 / 85
p0 −149 ± 0.188
−144
−146
−148
−150
−152
−154
pull
Entries 86
Mean −584.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

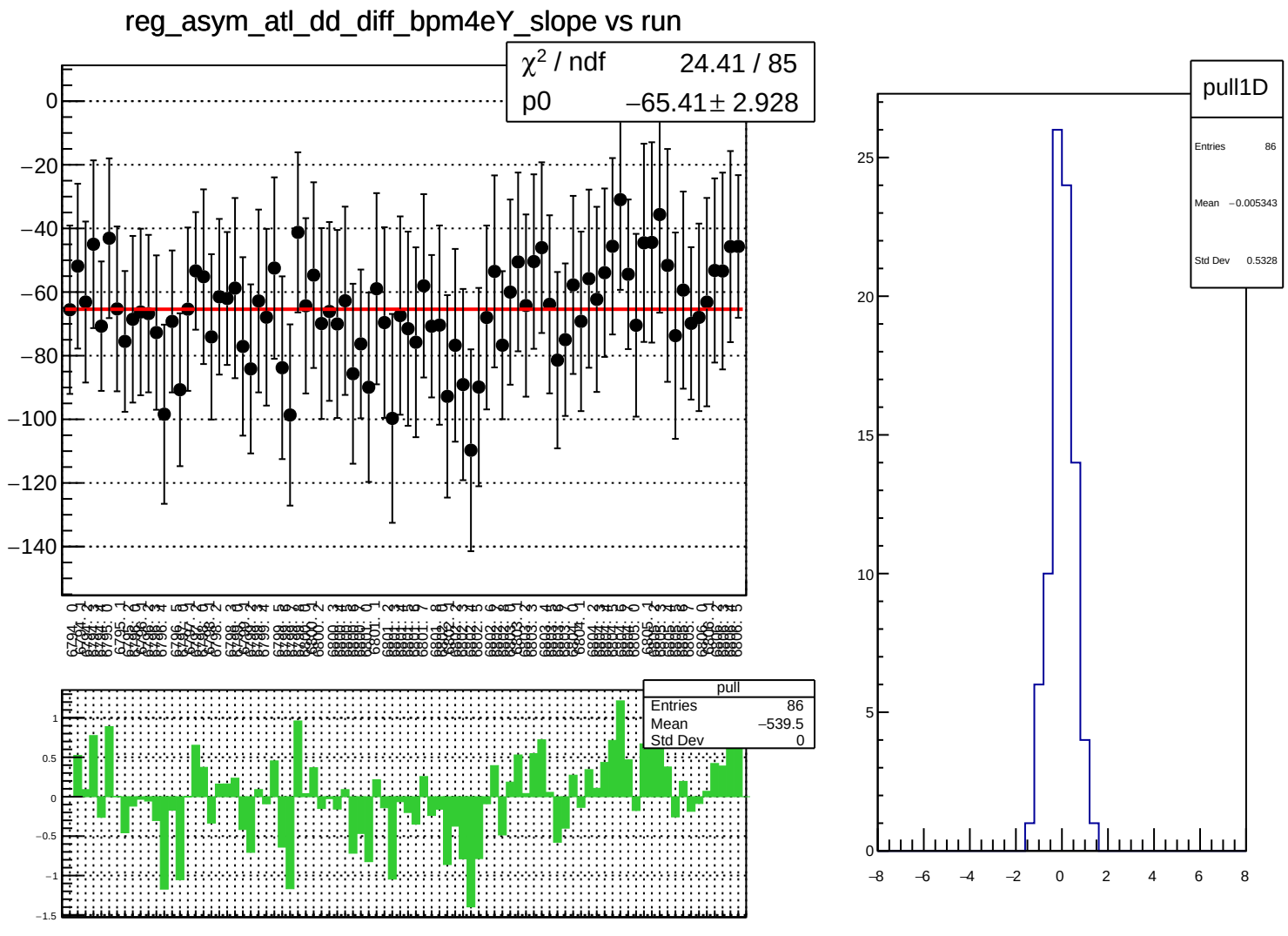

pull1D
Entries 86
Mean −0.00502
Std Dev 0.72
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

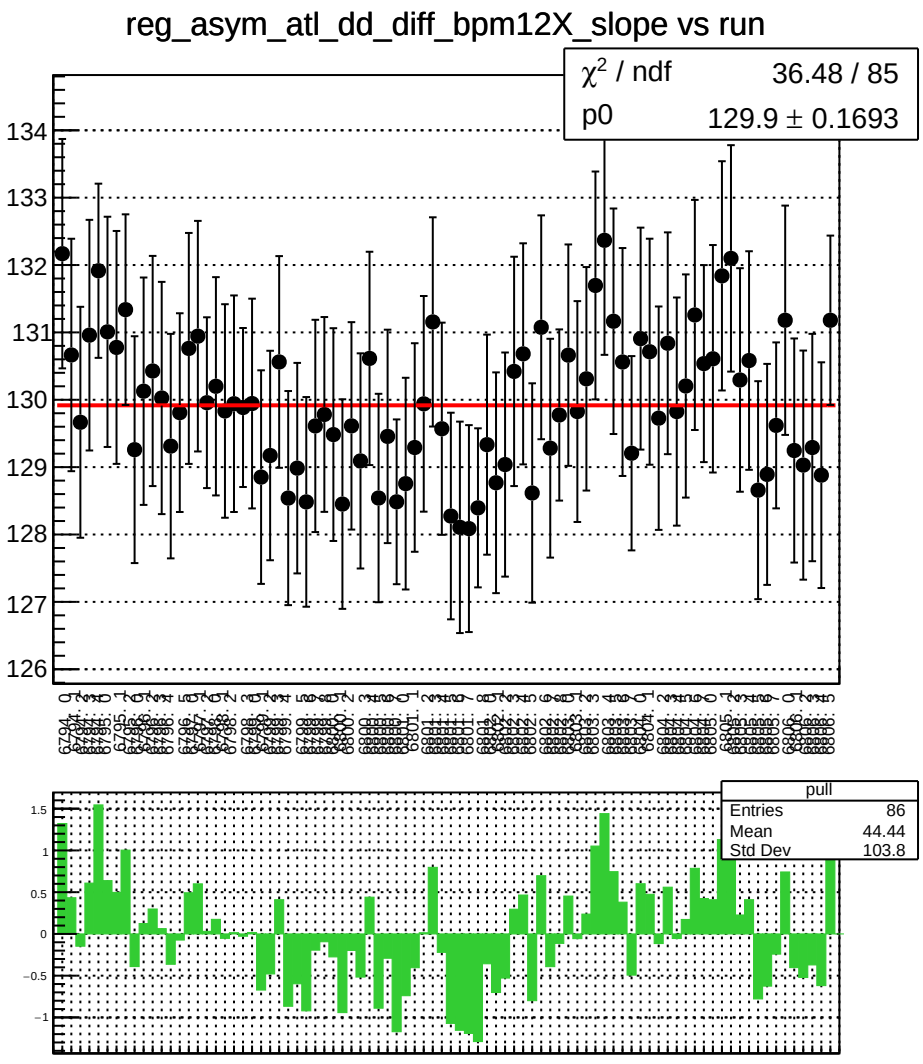

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 60.73 / 85
p0 265.9 ± 4.466
pull
Entries 86
Mean 744.6
Std Dev 0
pull1D
Entries 86
Mean 0.002993
Std Dev 0.8404

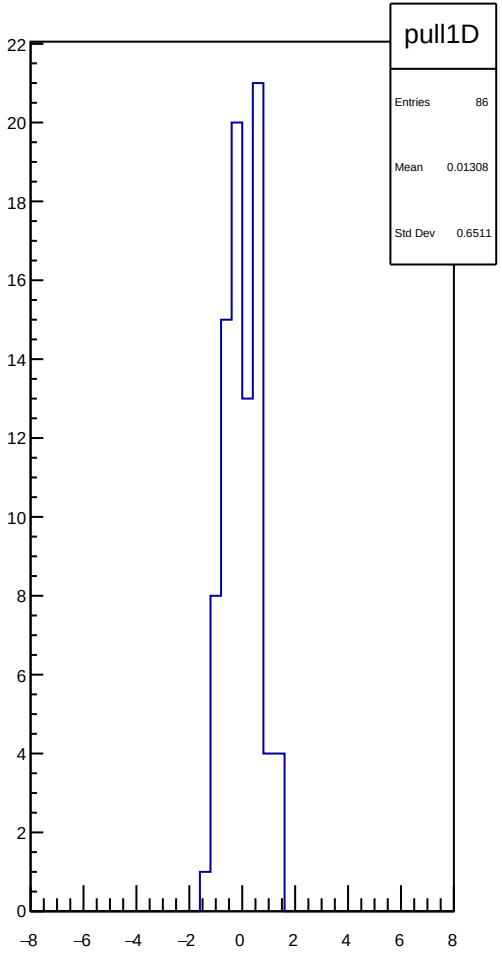

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.85 / 85
p0 −4.436 ± 2.104
40
20
0
−20
−40
pull
Entries 86
Mean −1686
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean 0.001631
Std Dev 0.5155
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

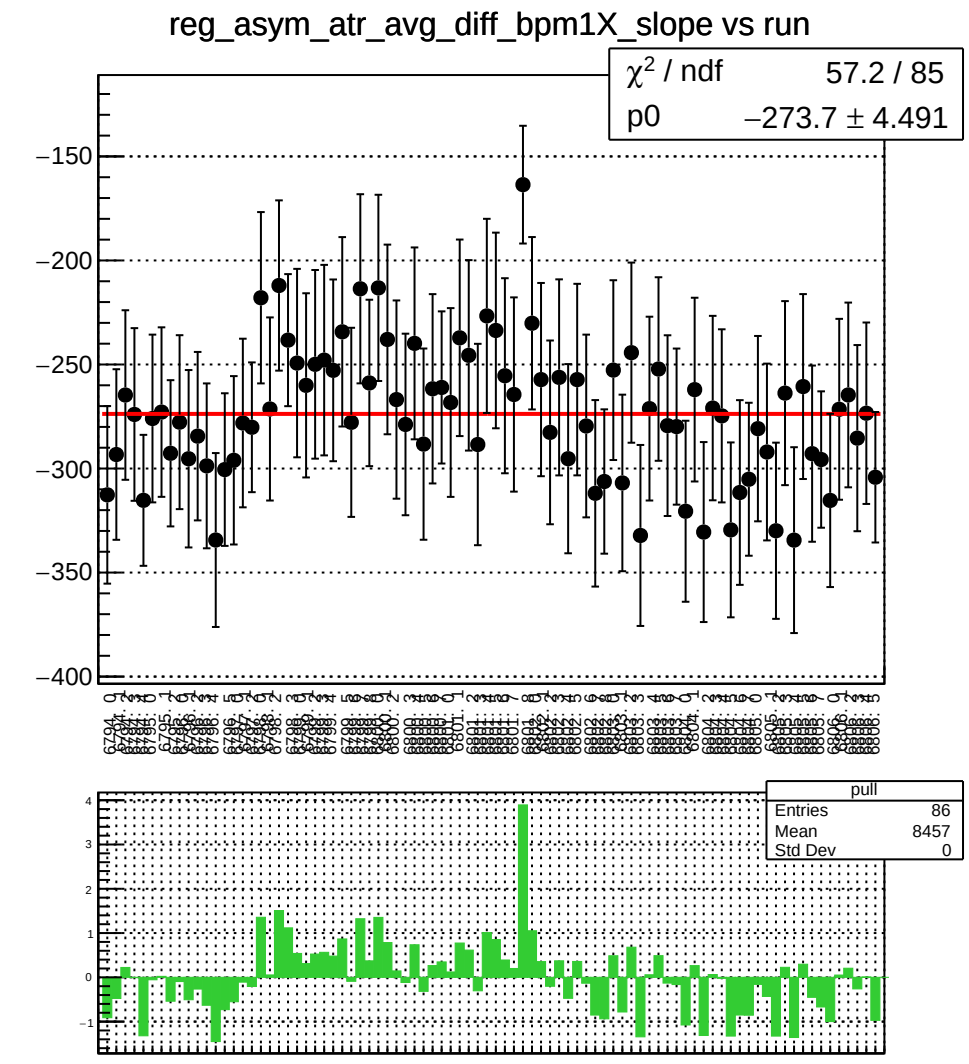

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.21 / 85
p0 −197.3 ± 4.18
pull
Entries 86
Mean 1399
Std Dev 0

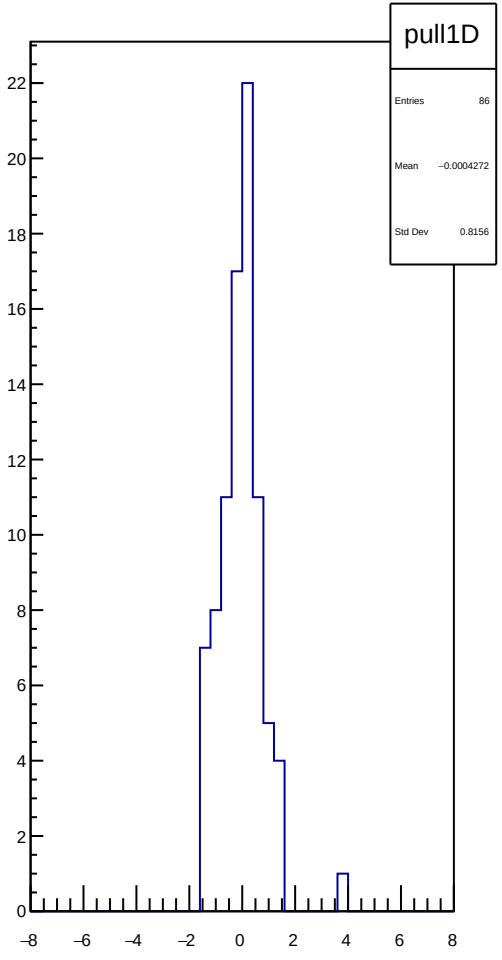

pull1D
Entries 86
Mean −0.001476
Std Dev 0.8437

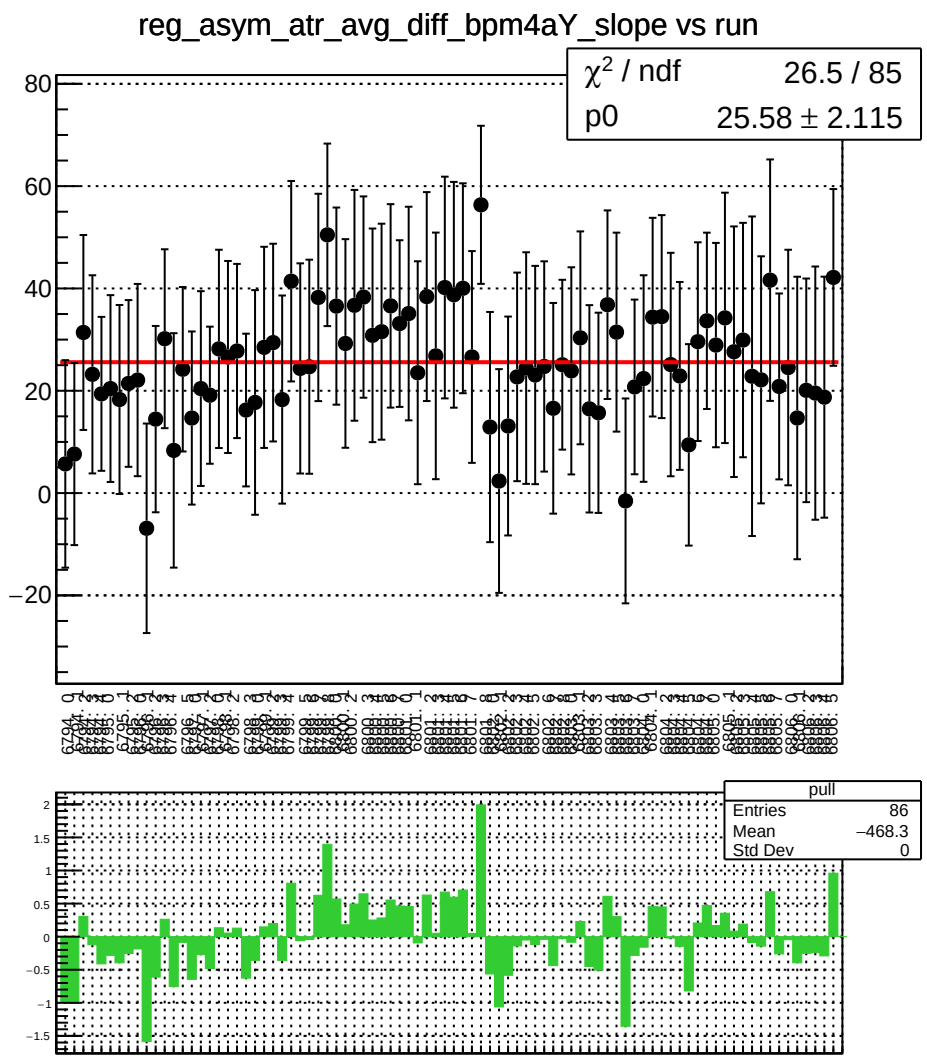

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 24.41 / 85
p0 −65.41 ± 2.928
pull
Entries 86
Mean −539.5
Std Dev 0
pull1D
Entries 86
Mean −0.005343
Std Dev 0.5328

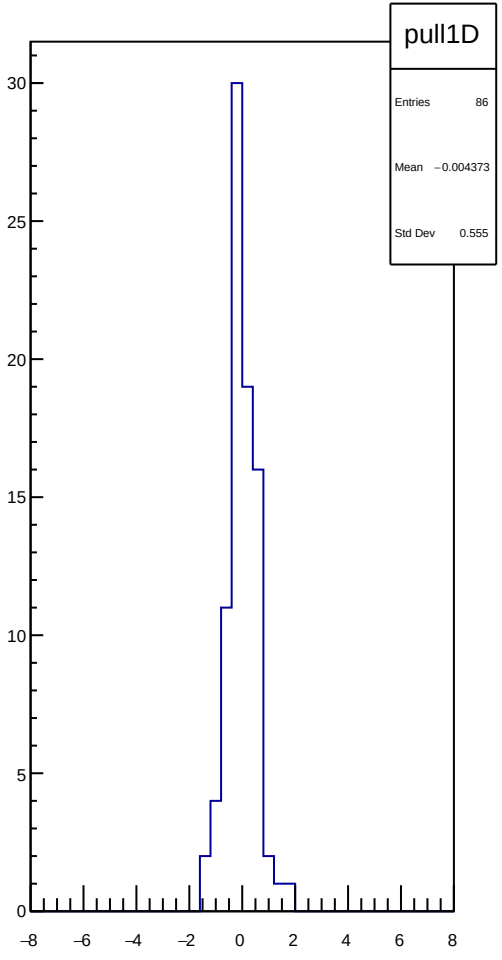

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 36.48 / 85
p0 129.9 ± 0.1693
pull
Entries 86
Mean 44.44
Std Dev 103.8

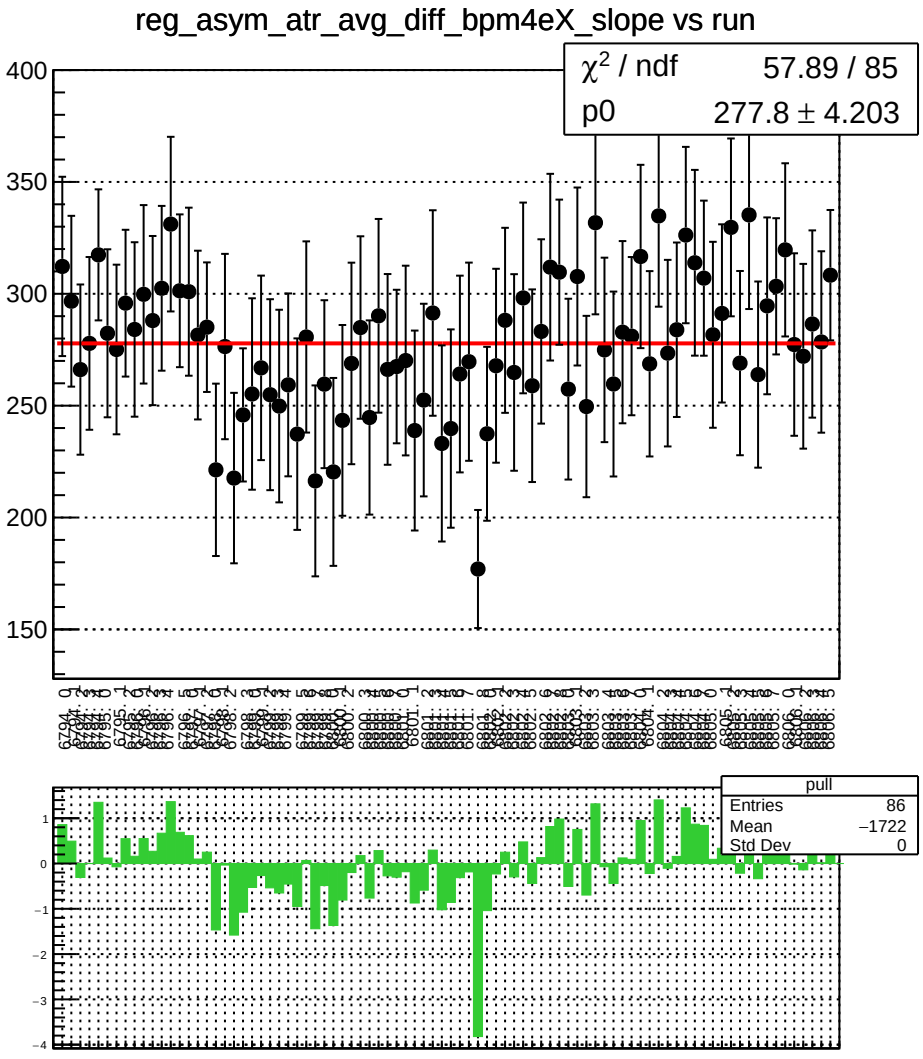

pull1D
Entries 86
Mean 0.01308
Std Dev 0.6511

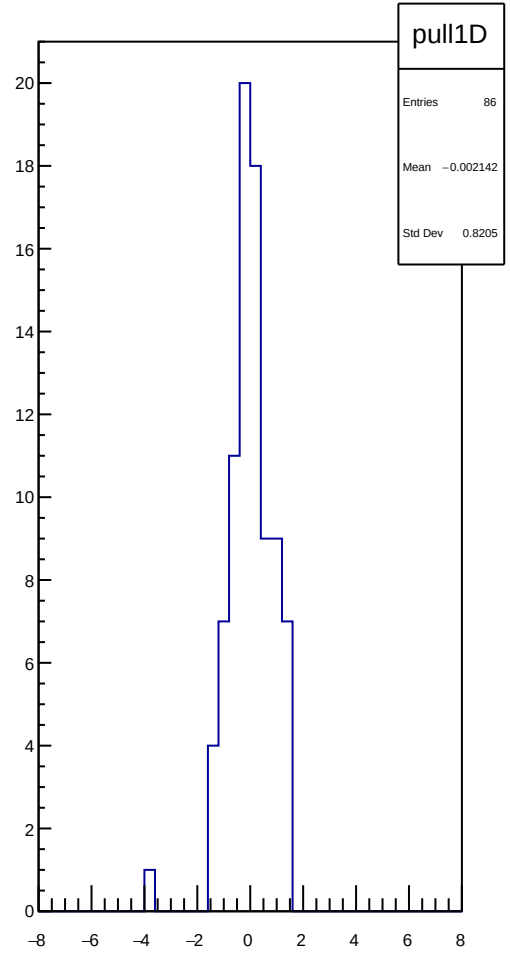

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 57.2 / 85
p0 −273.7 ± 4.491
pull
Entries 86
Mean 8457
Std Dev 0

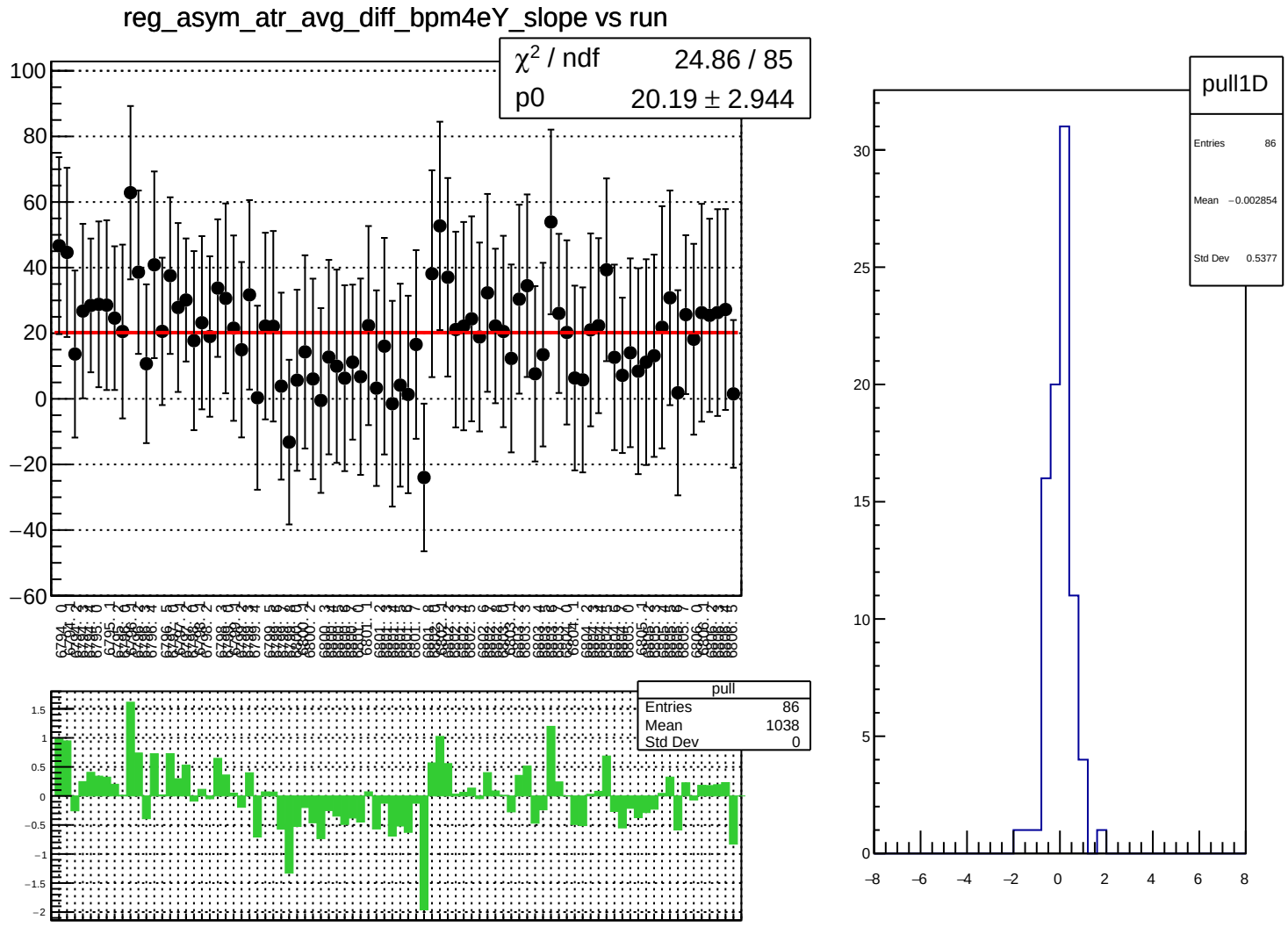

pull1D
Entries 86
Mean −0.0004272
Std Dev 0.8156

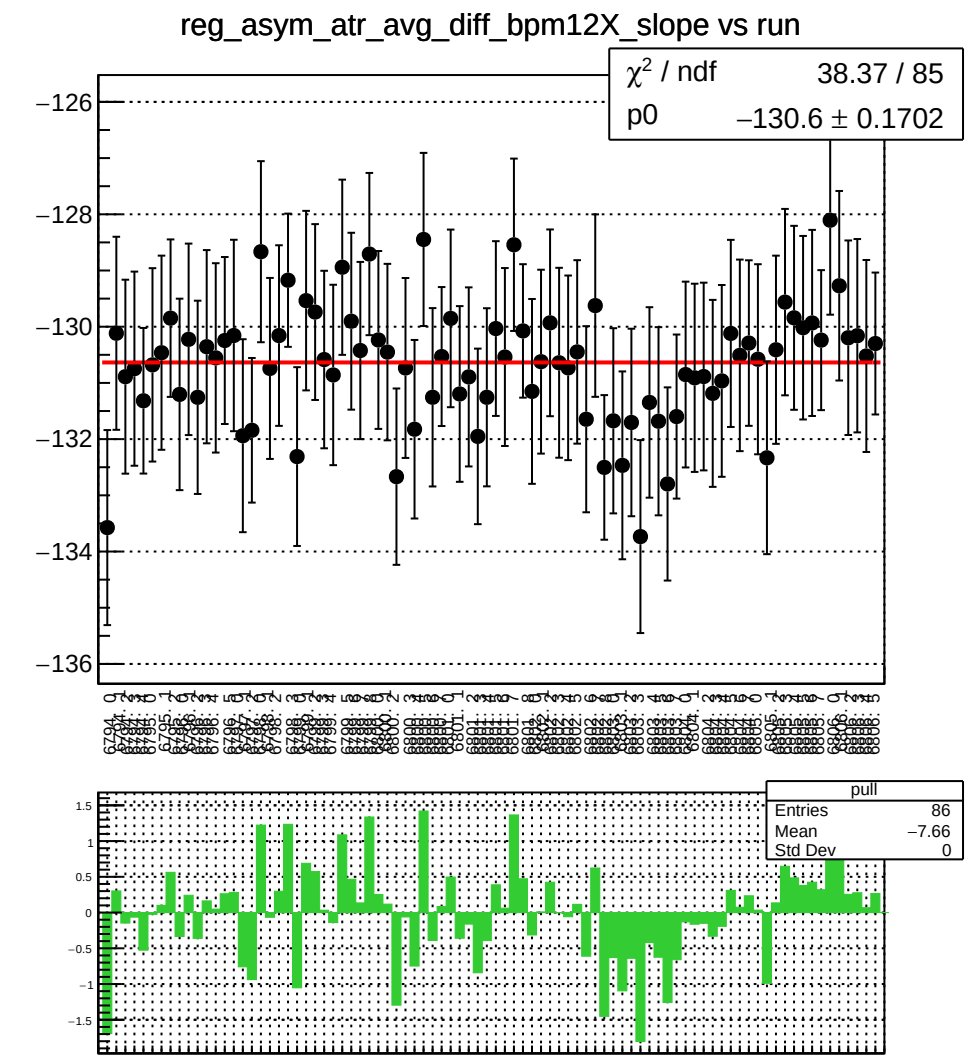

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.5 / 85
p0 25.58 ± 2.115
pull
Entries 86
Mean −468.3
Std Dev 0

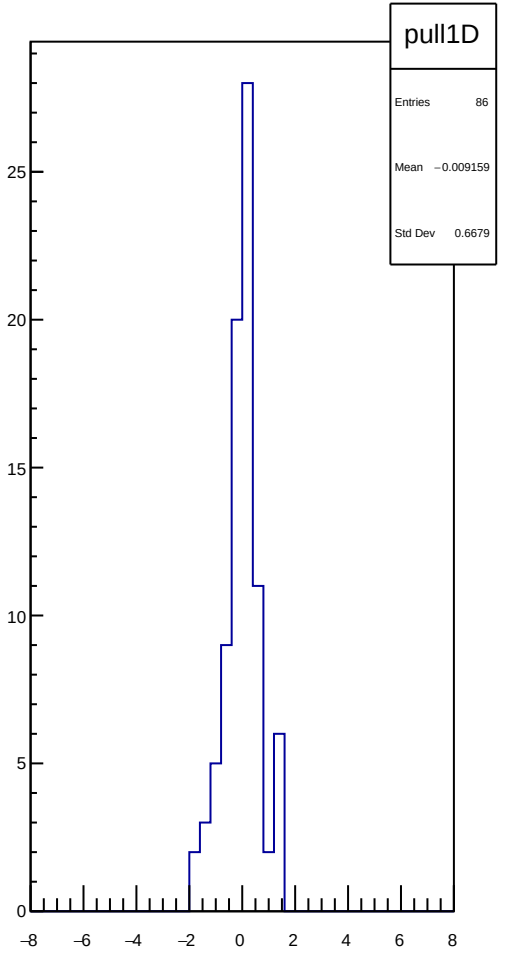

pull1D
Entries 86
Mean −0.004373
Std Dev 0.555

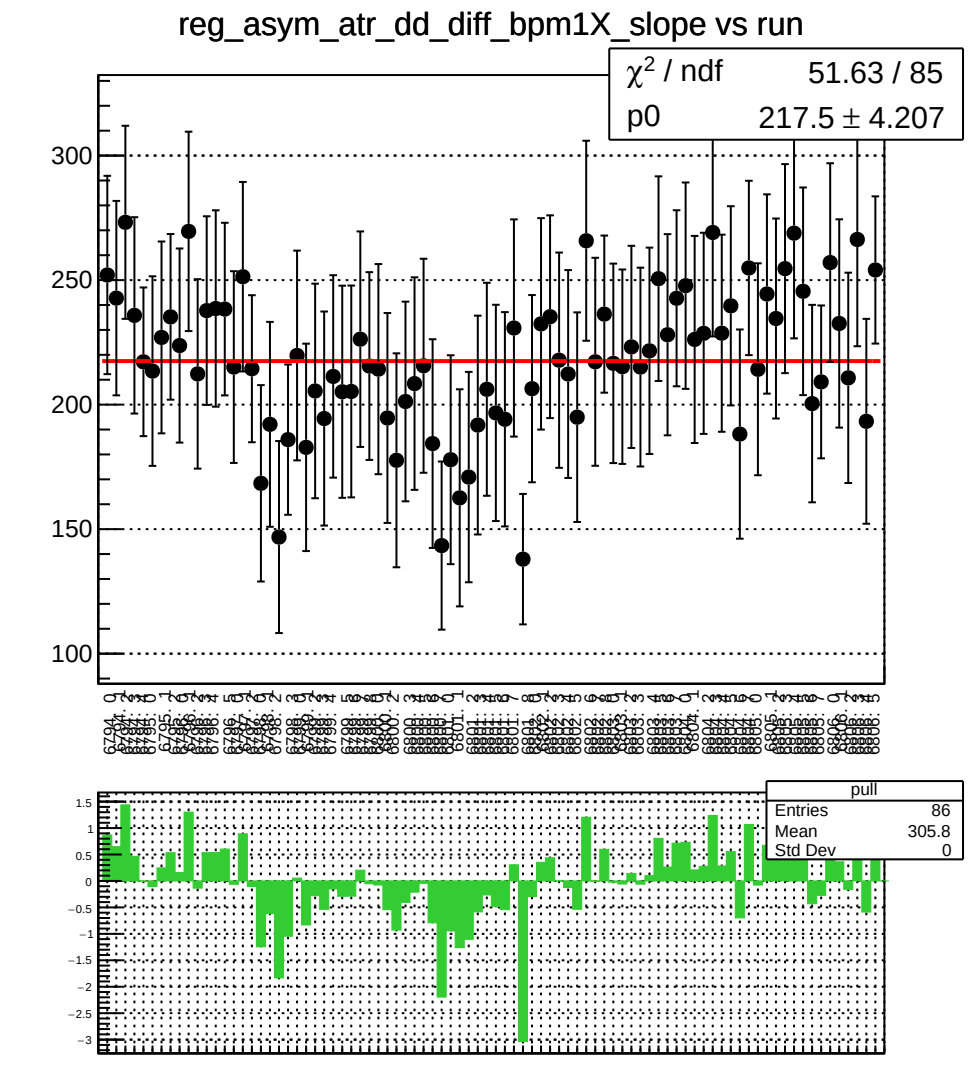

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 57.89 / 85
p0 277.8 ± 4.203
pull
Entries 86
Mean −1722
Std Dev 0

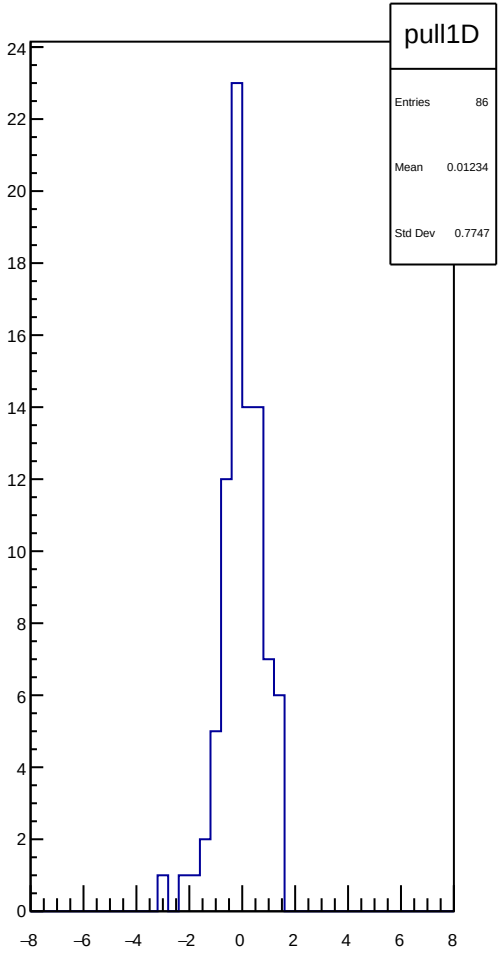

pull1D
Entries 86
Mean −0.002142
Std Dev 0.8205

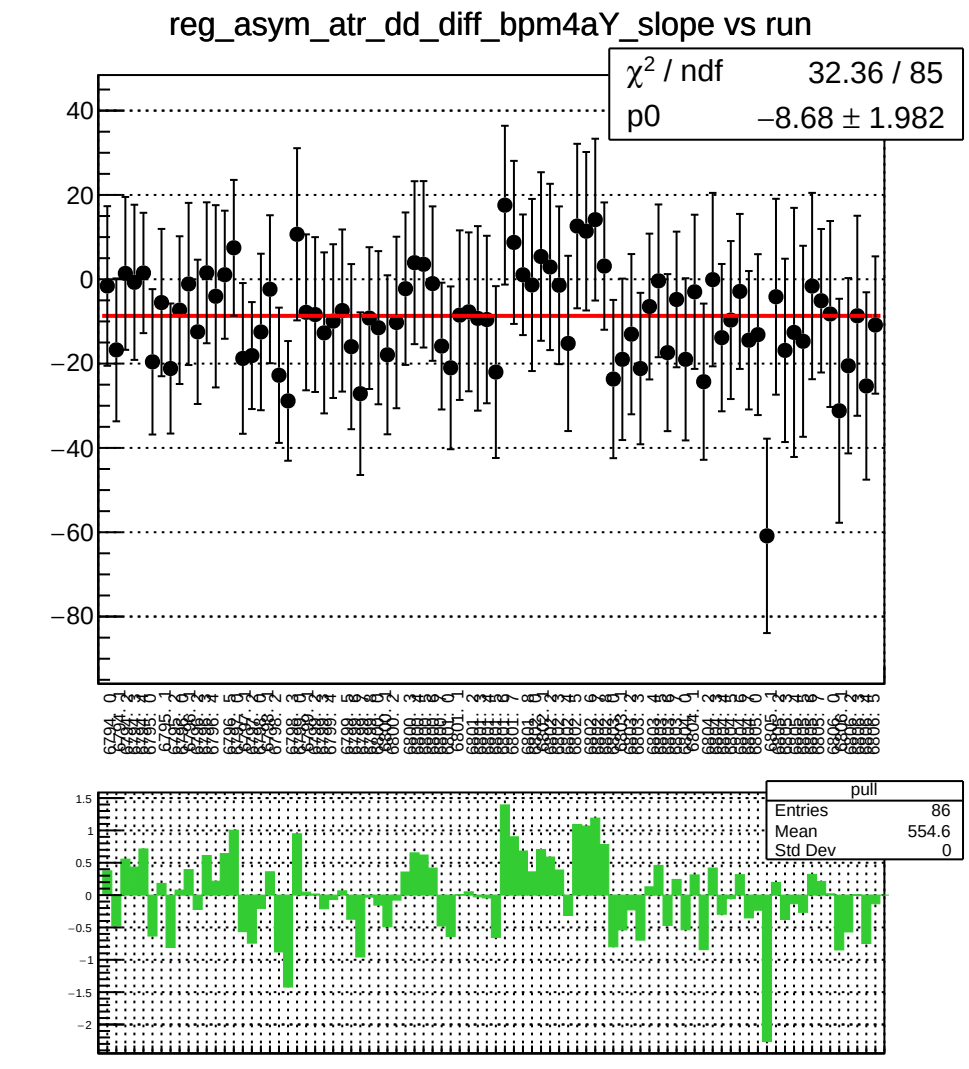

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.86 / 85
p0 20.19 ± 2.944
pull
Entries 86
Mean 1038
Std Dev 0
pull1D
Entries 86
Mean −0.002854
Std Dev 0.5377

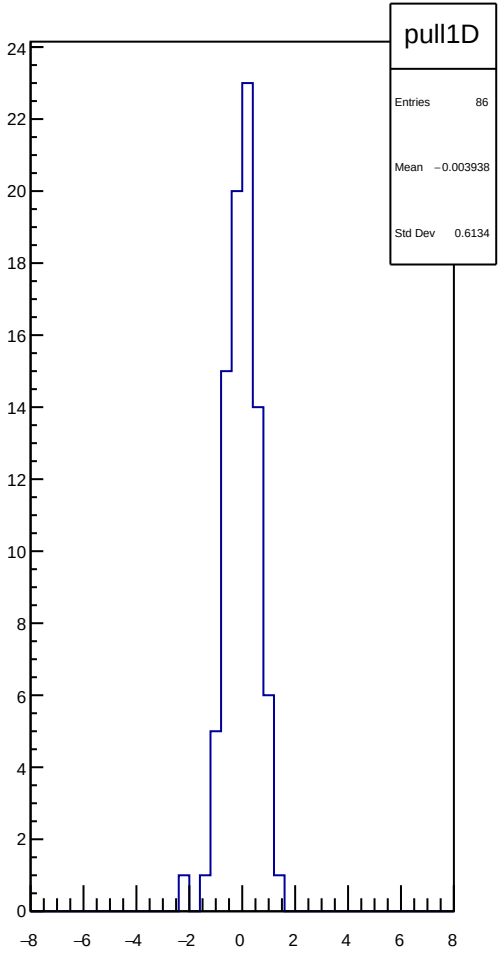

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 38.37 / 85
p0 −130.6 ± 0.1702
−126
−128
−130
−132
−134
−136
pull
Entries 86
Mean −7.66
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

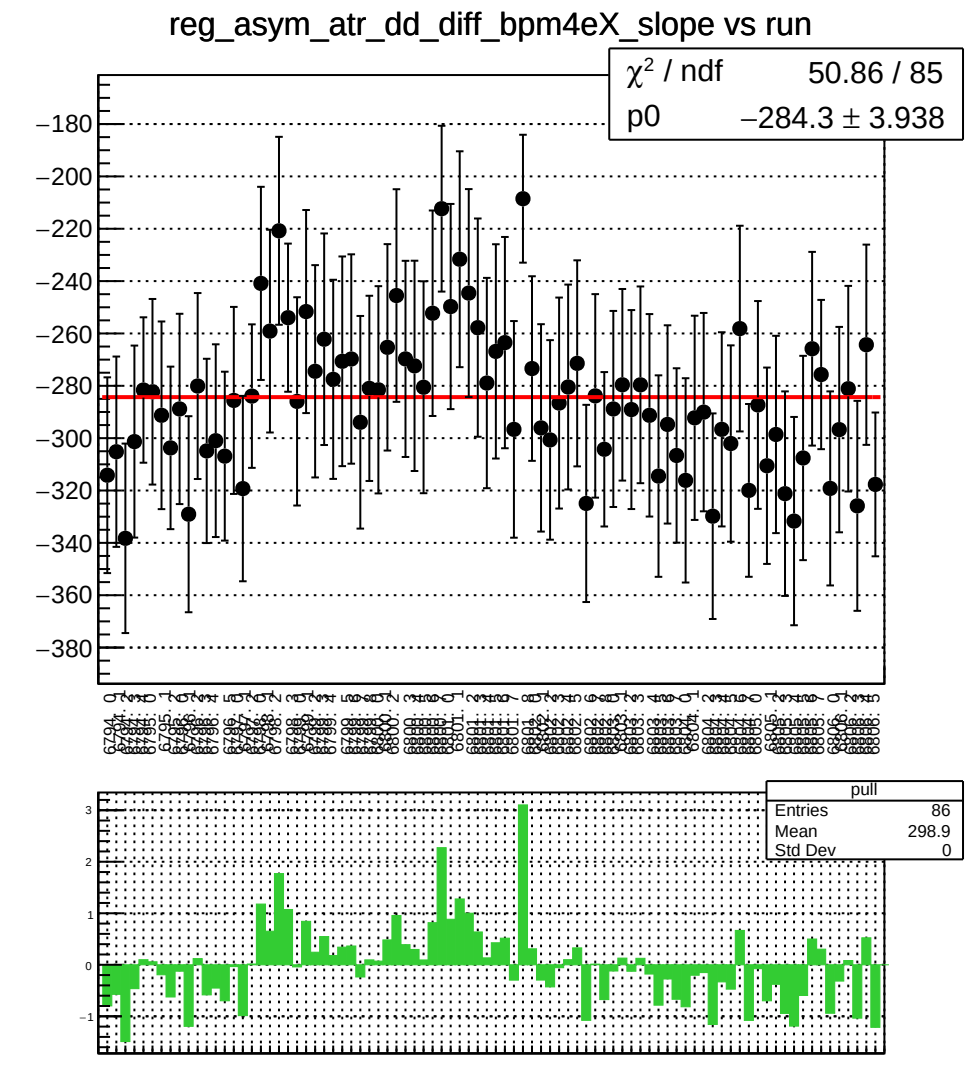

pull1D
Entries 86
Mean −0.009159
Std Dev 0.6679
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

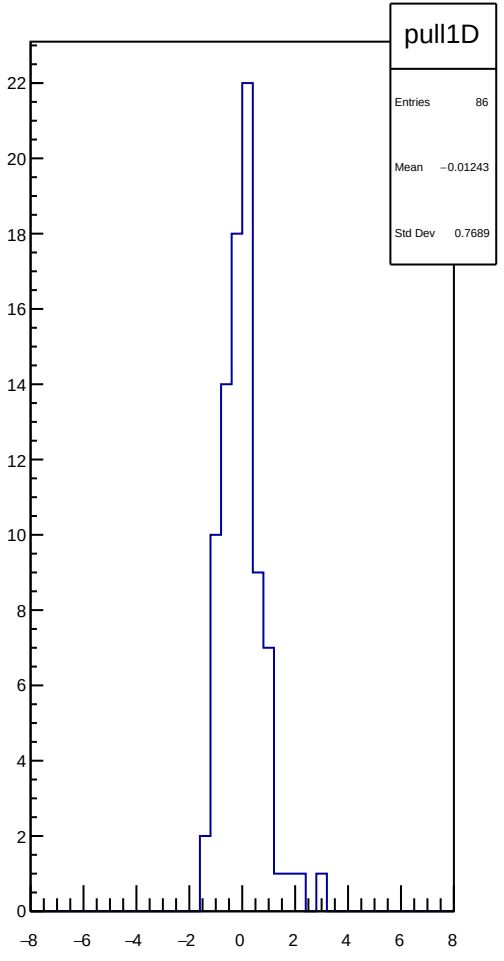

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 51.63 / 85
p0 217.5 ± 4.207
pull
Entries 86
Mean 305.8
Std Dev 0

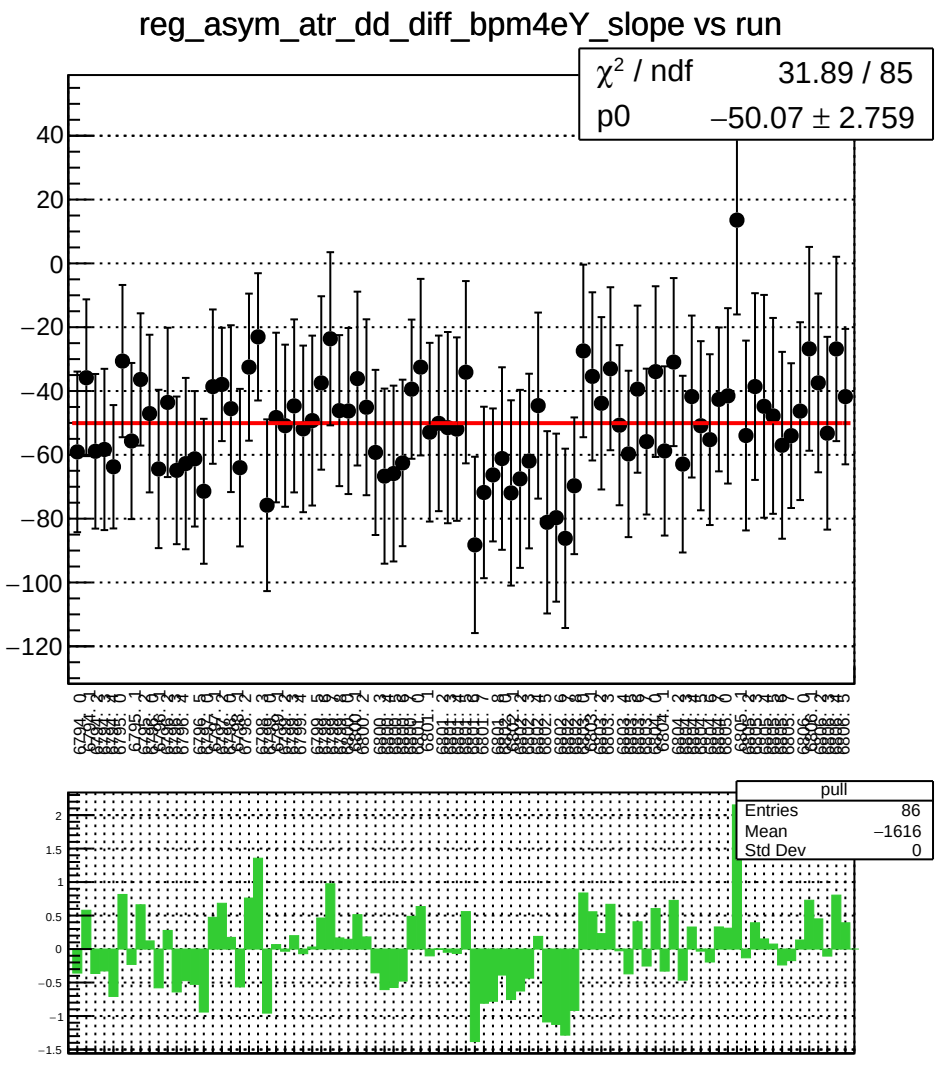

pull1D
Entries 86
Mean 0.01234
Std Dev 0.7747

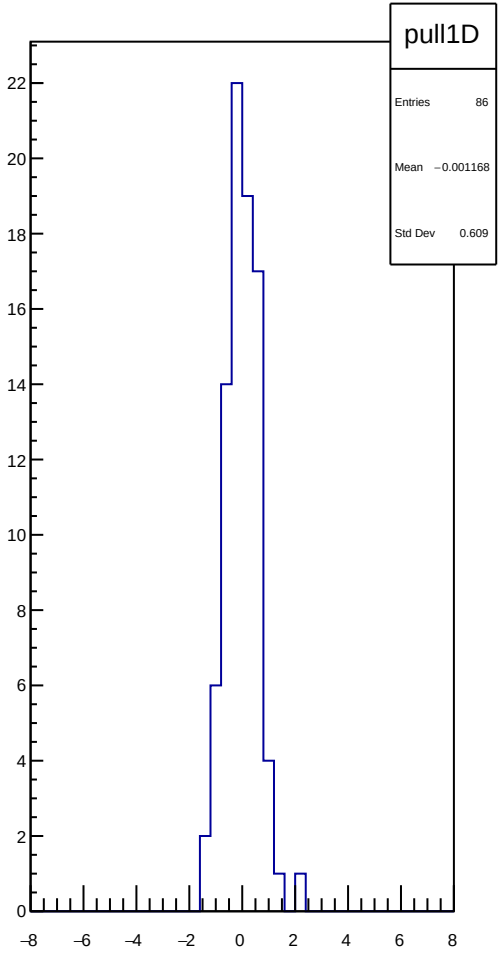

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.36 / 85
p0 −8.68 ± 1.982
pull
Entries 86
Mean 554.6
Std Dev 0

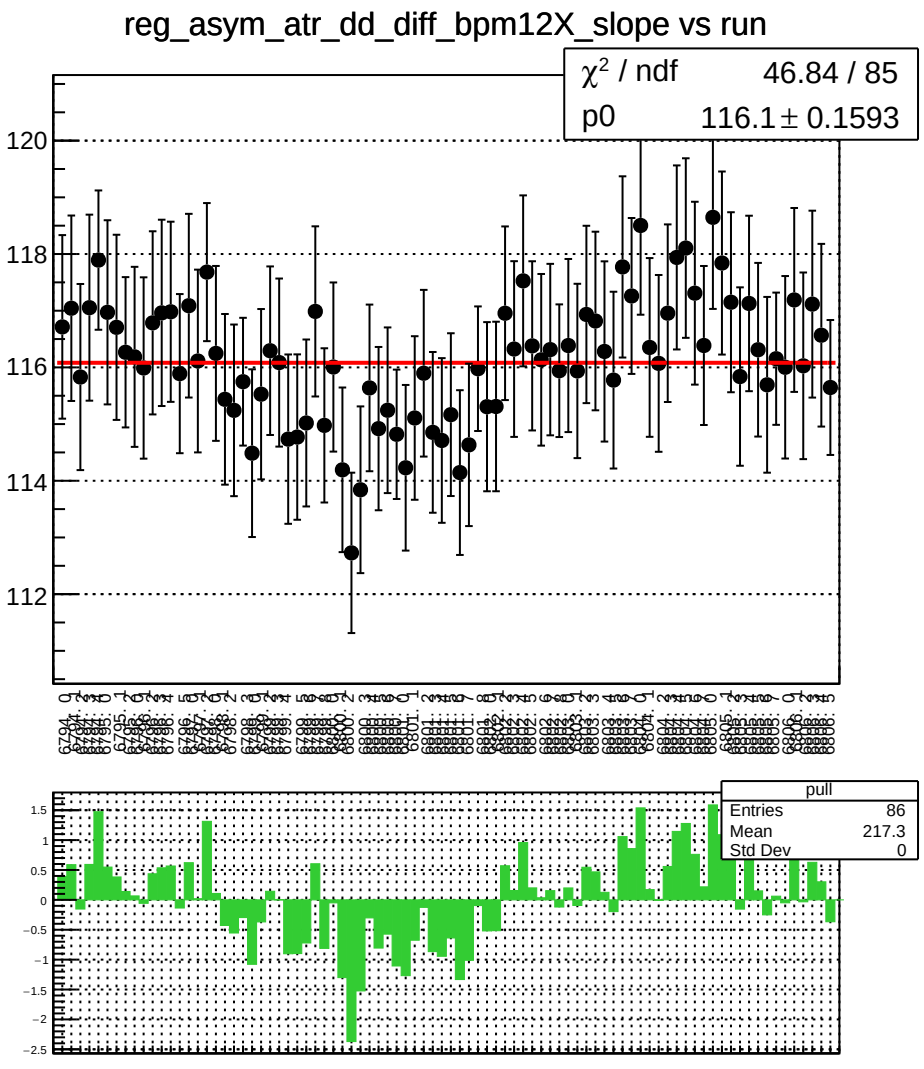

pull1D
Entries 86
Mean −0.003938
Std Dev 0.6134

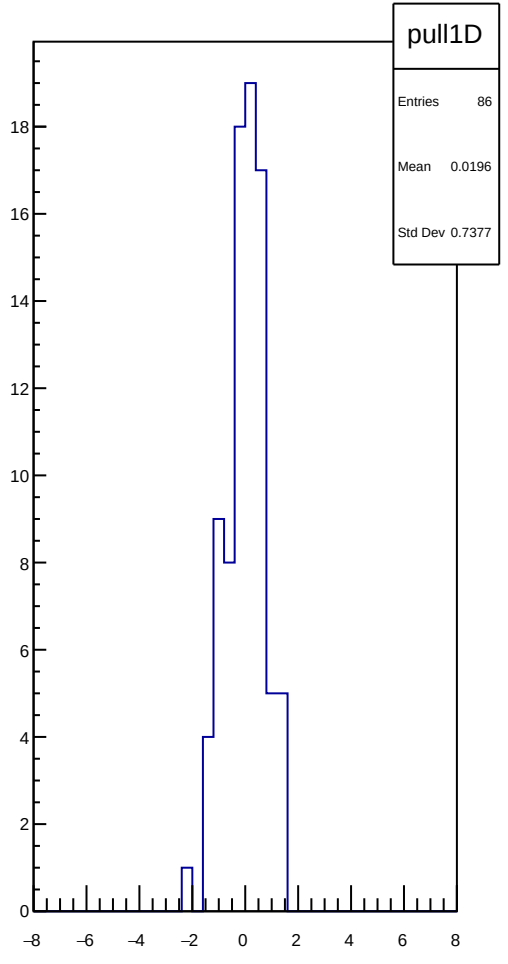

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.86 / 85
p0 −284.3 ± 3.938
pull
Entries 86
Mean 298.9
Std Dev 0

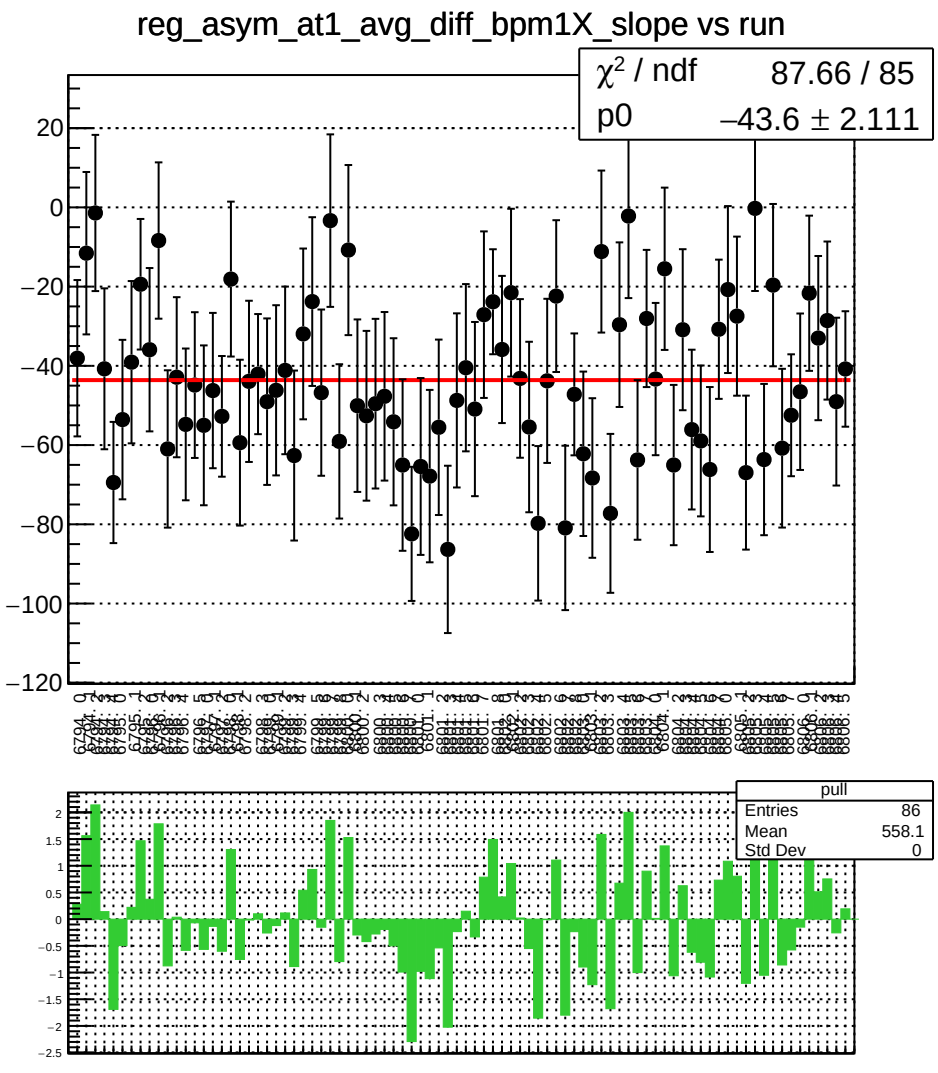

pull1D
Entries 86
Mean −0.01243
Std Dev 0.7689

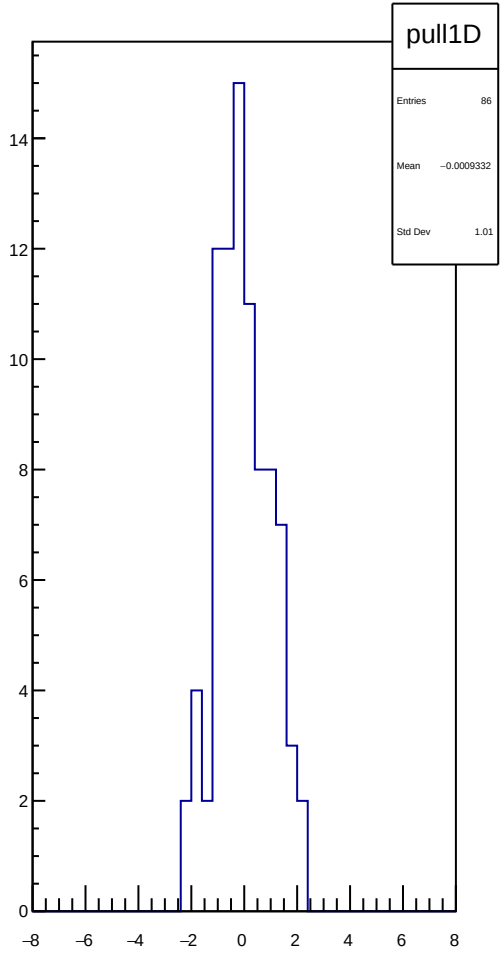

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.89 / 85
p0 −50.07 ± 2.759
pull
Entries 86
Mean −1616
Std Dev 0

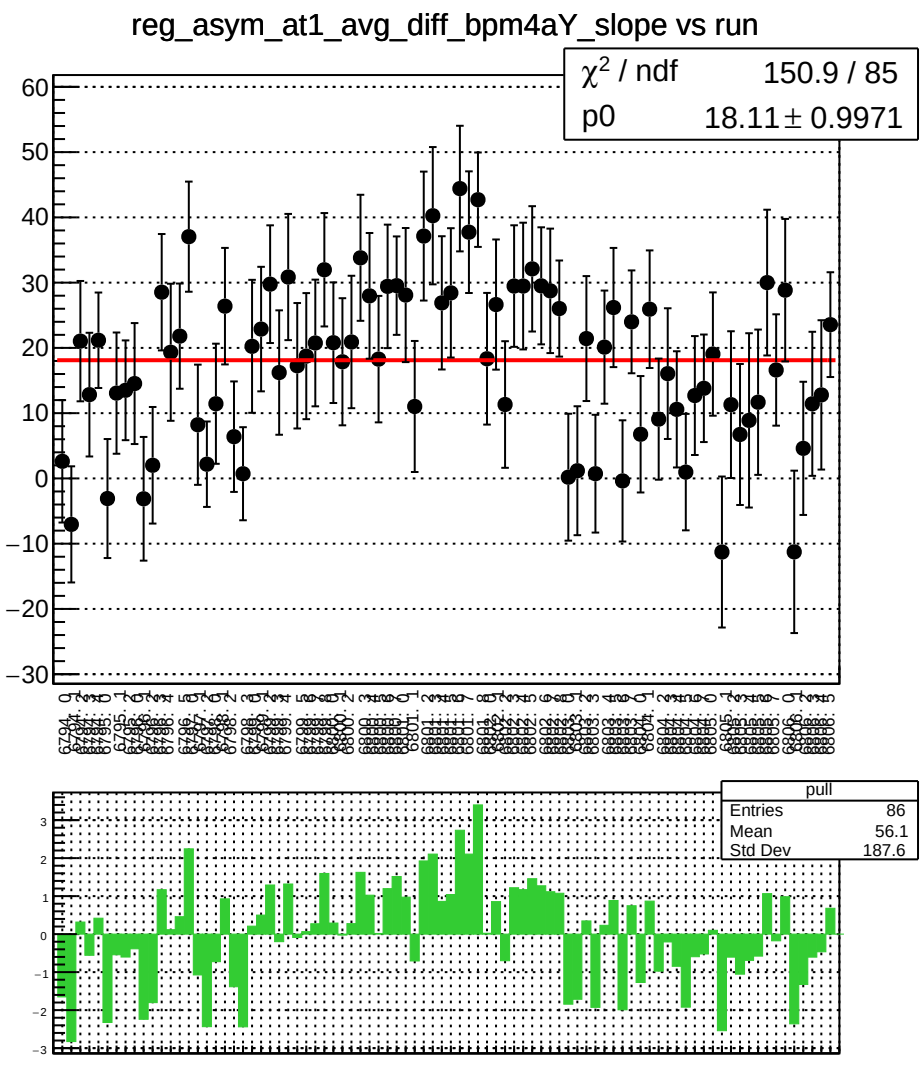

pull1D
Entries 86
Mean −0.001168
Std Dev 0.609

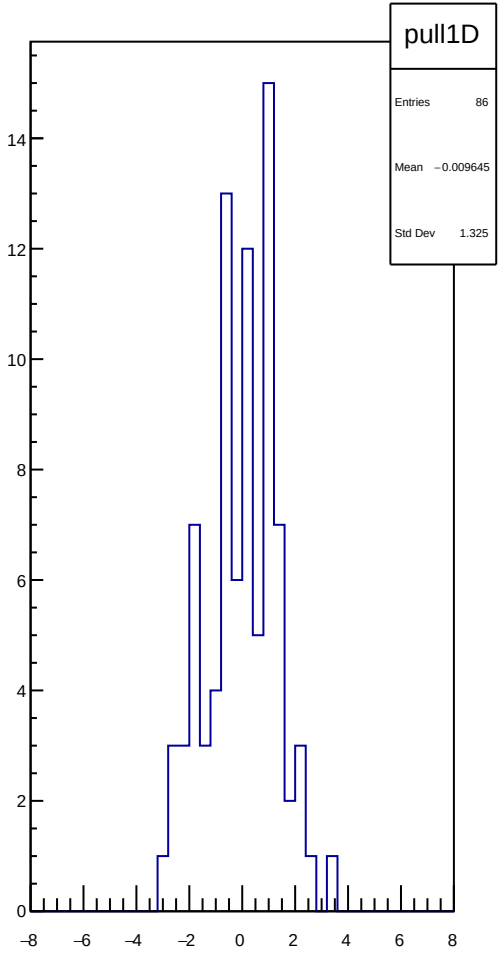

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 46.84 / 85
p0 116.1 ± 0.1593
120
118
116
114
112
pull
Entries 86
Mean 217.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

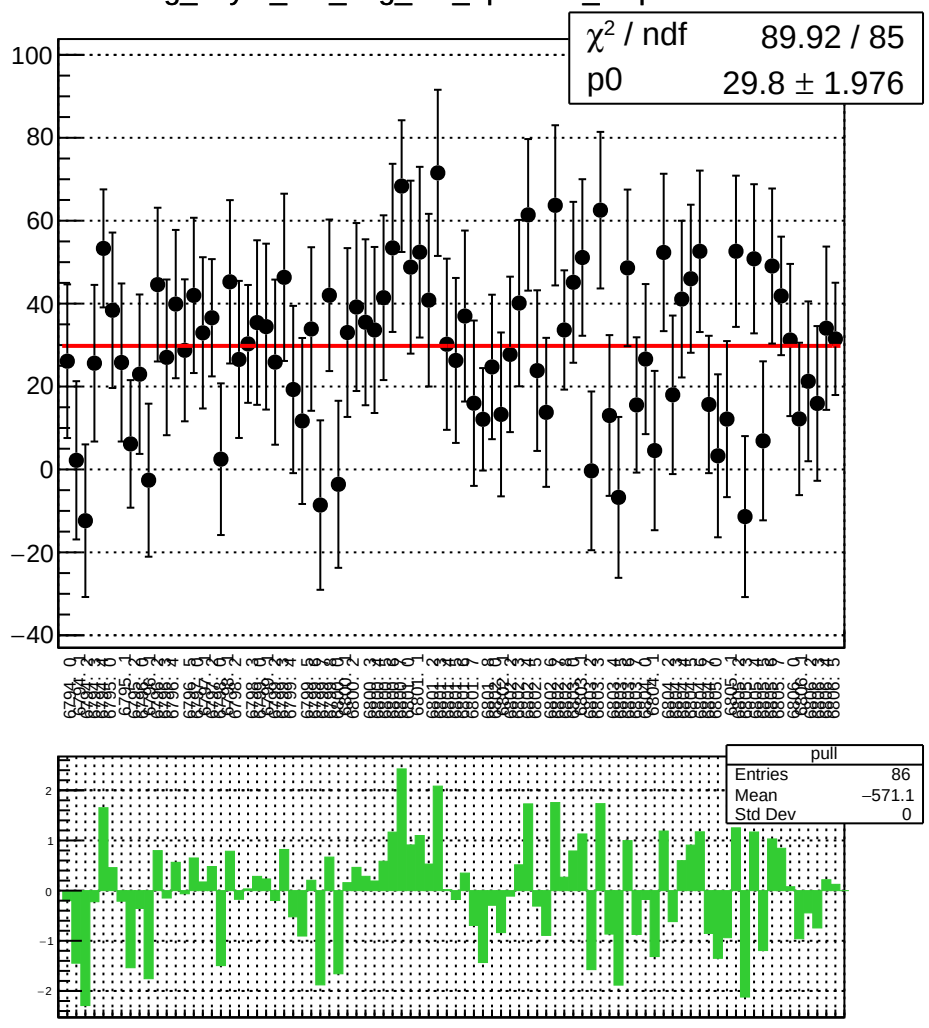

pull1D
Entries 86
Mean 0.0196
Std Dev 0.7377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

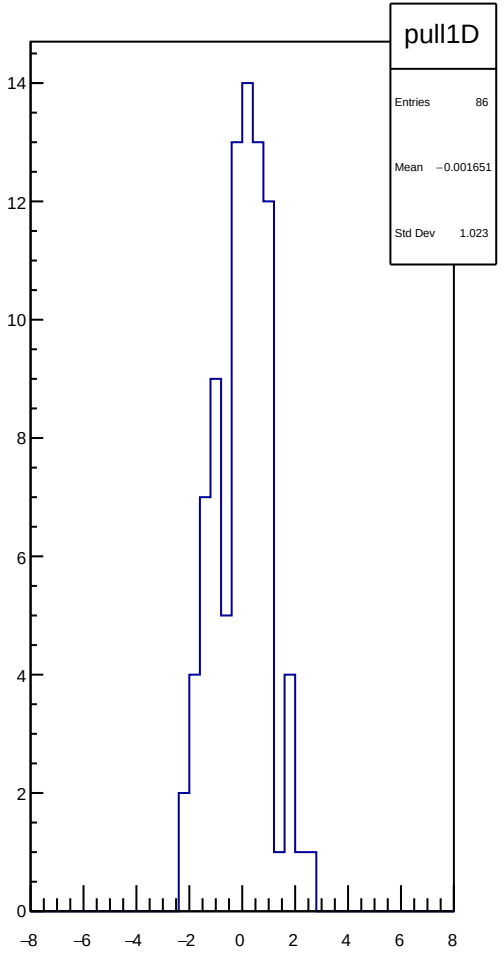

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 87.66 / 85
p0 −43.6 ± 2.111
pull
Entries 86
Mean 558.1
Std Dev 0

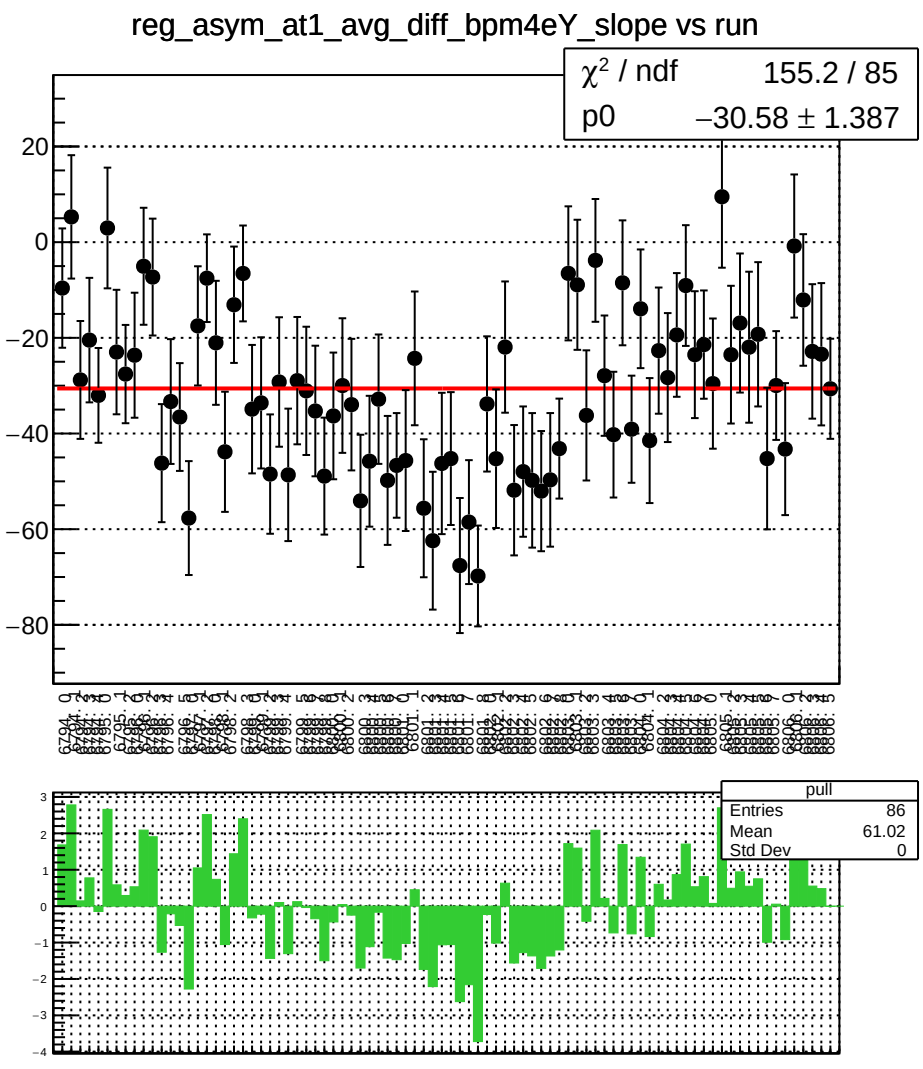

pull1D
Entries 86
Mean −0.0009332
Std Dev 1.01

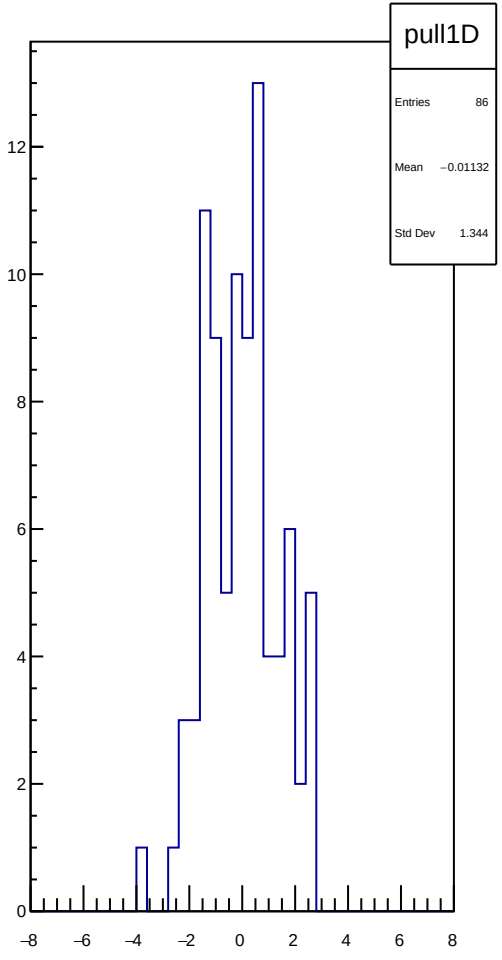

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 150.9 / 85
p0 18.11 ± 0.9971
pull
Entries 86
Mean 56.1
Std Dev 187.6

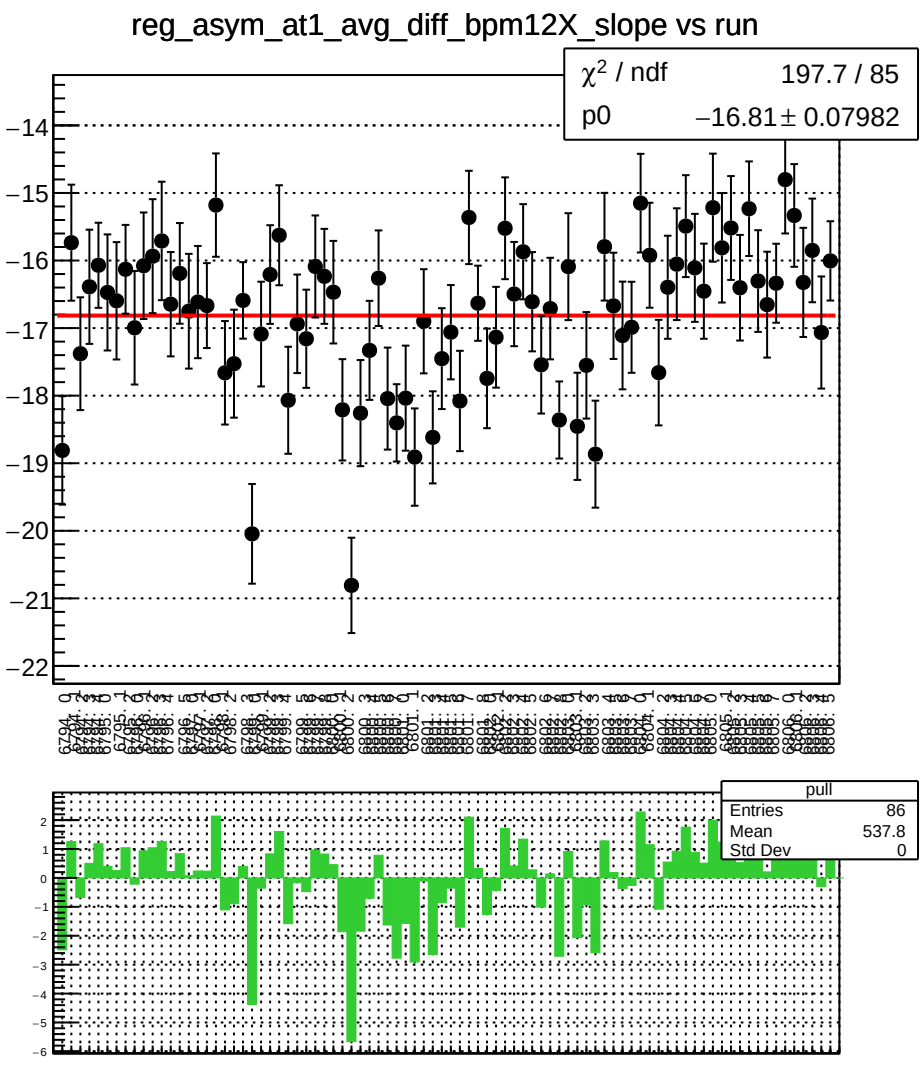

pull1D
Entries 86
Mean −0.009645
Std Dev 1.325

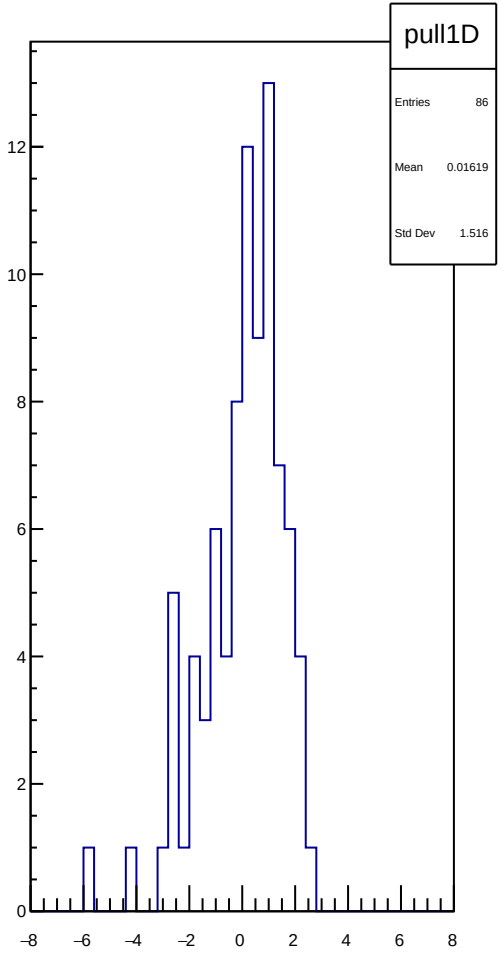

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 89.92 / 85
p0 29.8 ± 1.976
pull
Entries 86
Mean −571.1
Std Dev 0

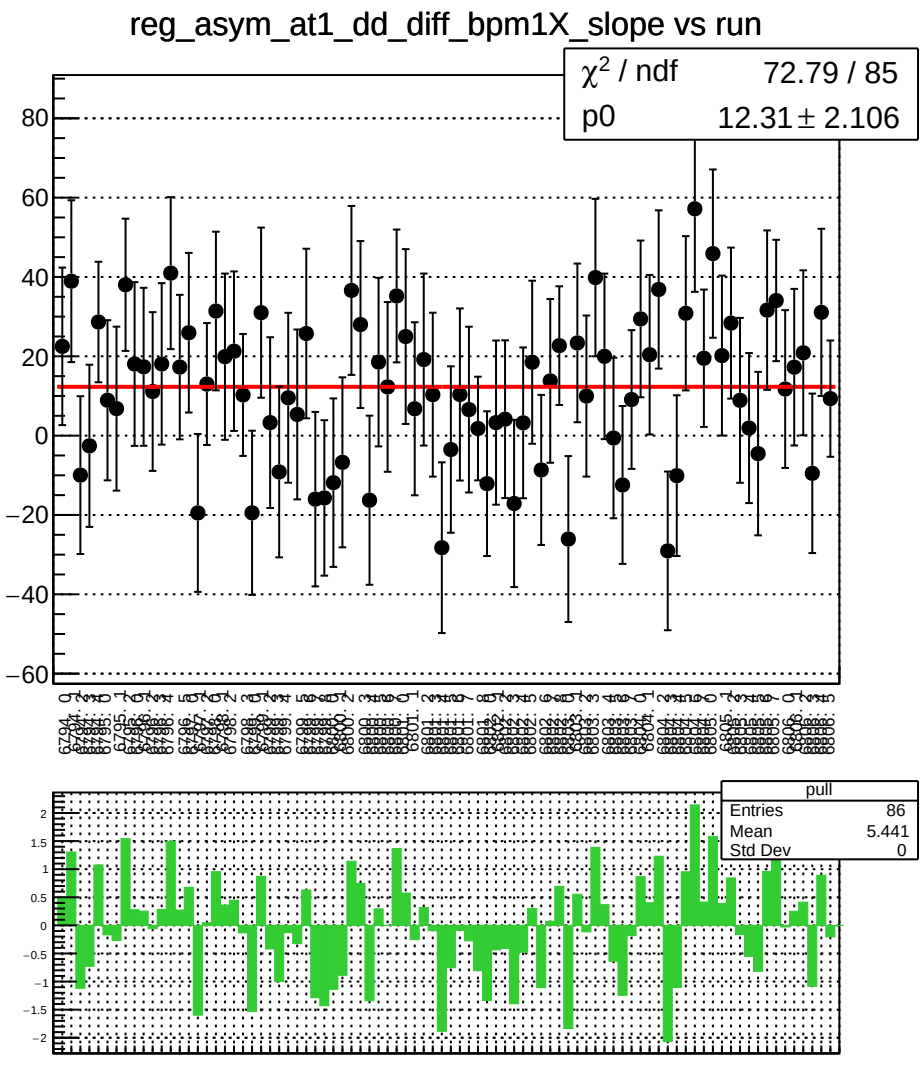

pull1D
Entries 86
Mean −0.001651
Std Dev 1.023

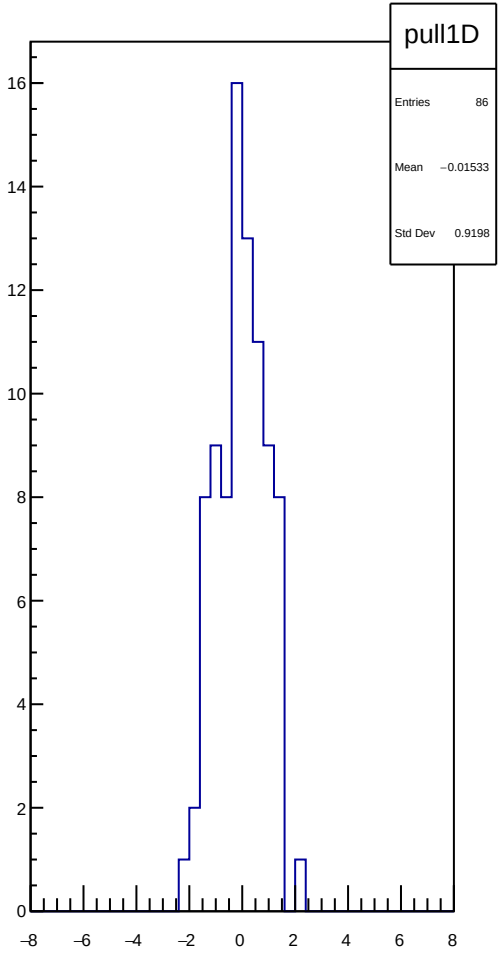

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 155.2 / 85
p0 −30.58 ± 1.387
pull
Entries 86
Mean 61.02
Std Dev 0

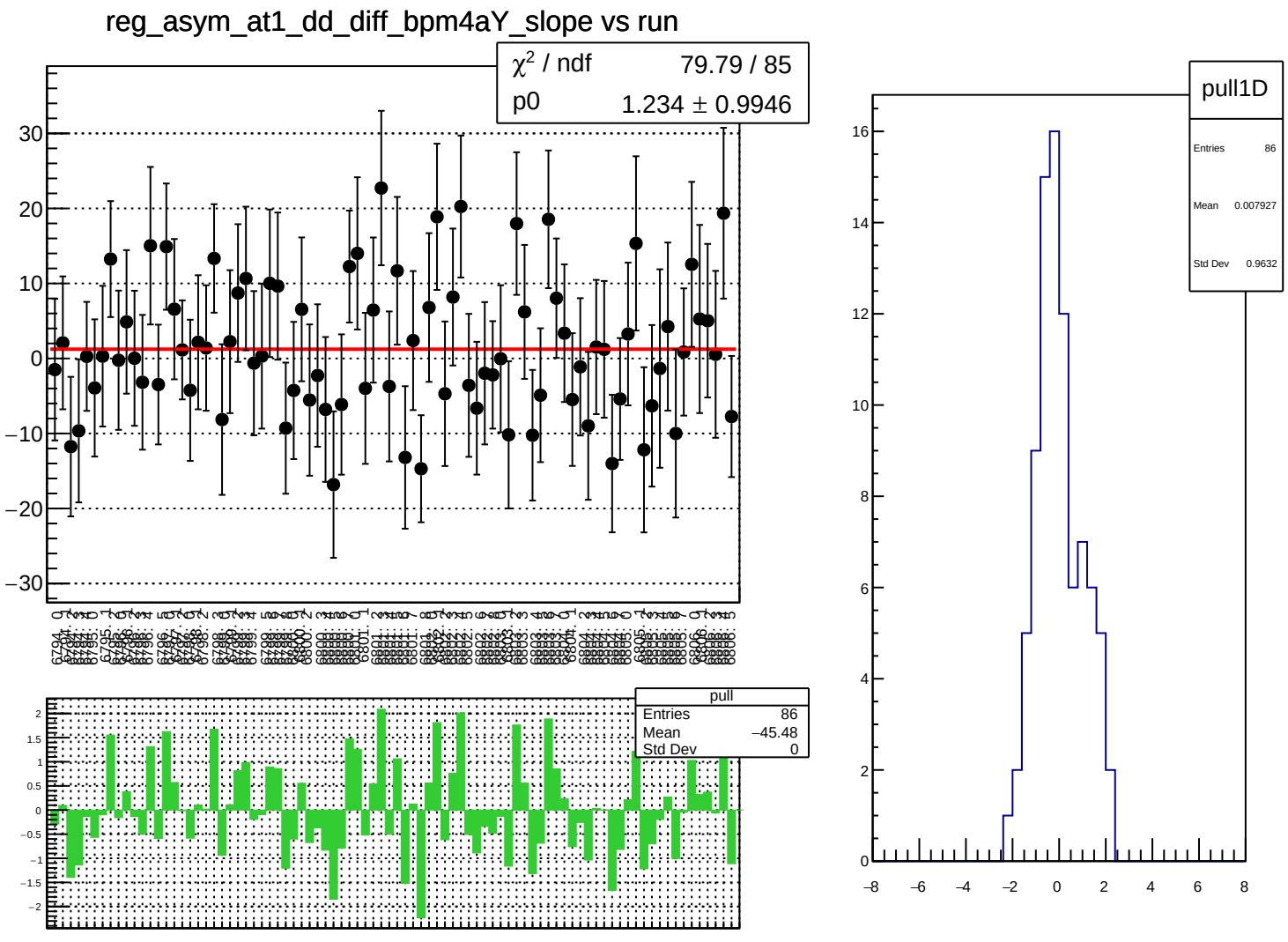

pull1D
Entries 86
Mean −0.01132
Std Dev 1.344

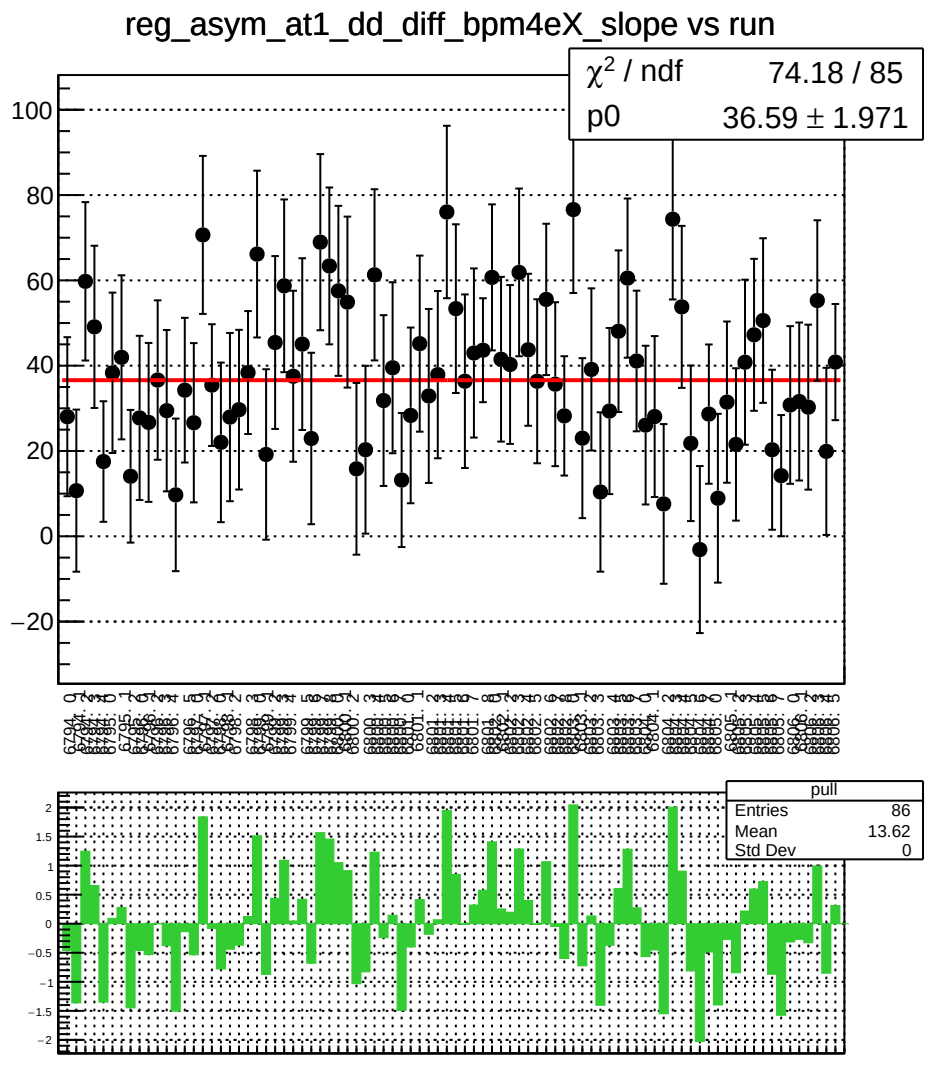

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 197.7 / 85
p0 −16.81 ± 0.07982
pull
Entries 86
Mean 537.8
Std Dev 0

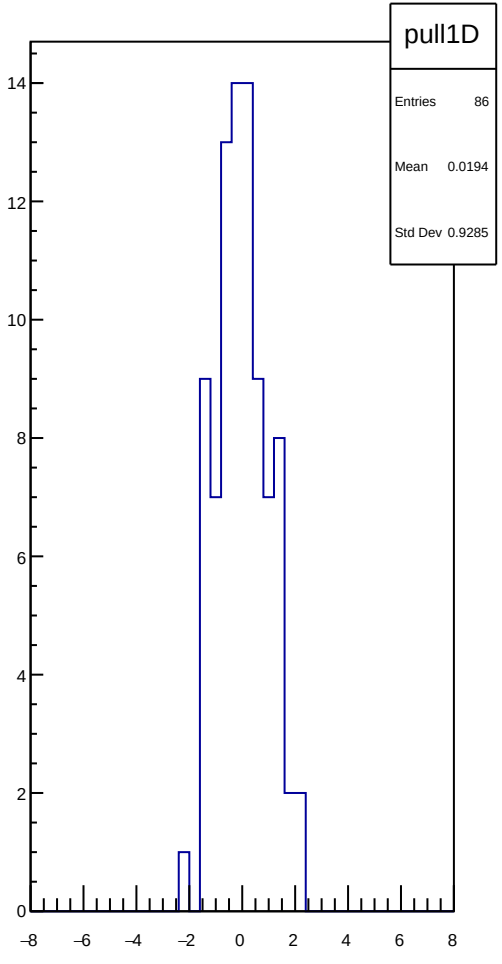

pull1D
Entries 86
Mean 0.01619
Std Dev 1.516

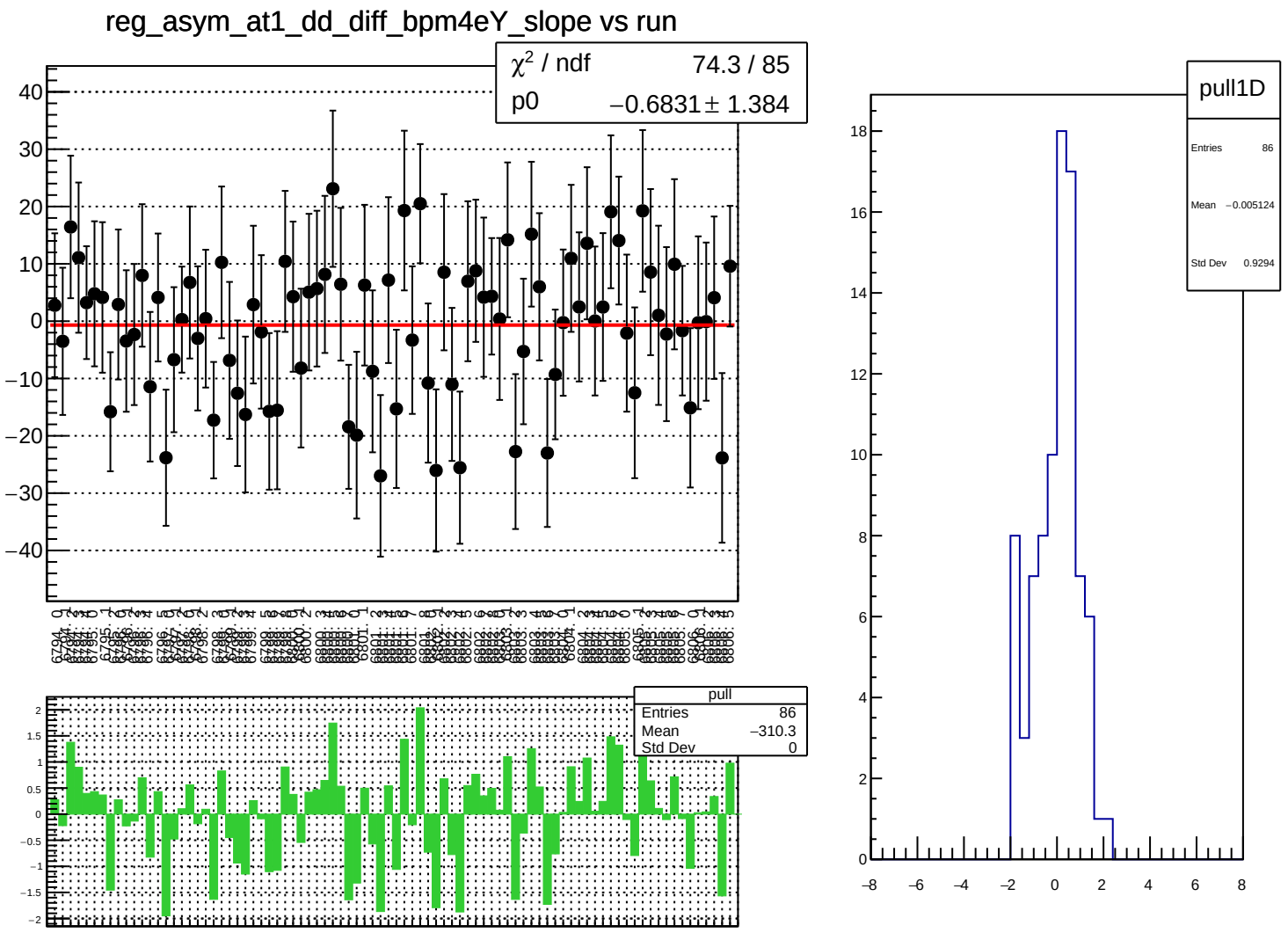

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 72.79 / 85
p0 12.31 ± 2.106
pull
Entries 86
Mean 5.441
Std Dev 0

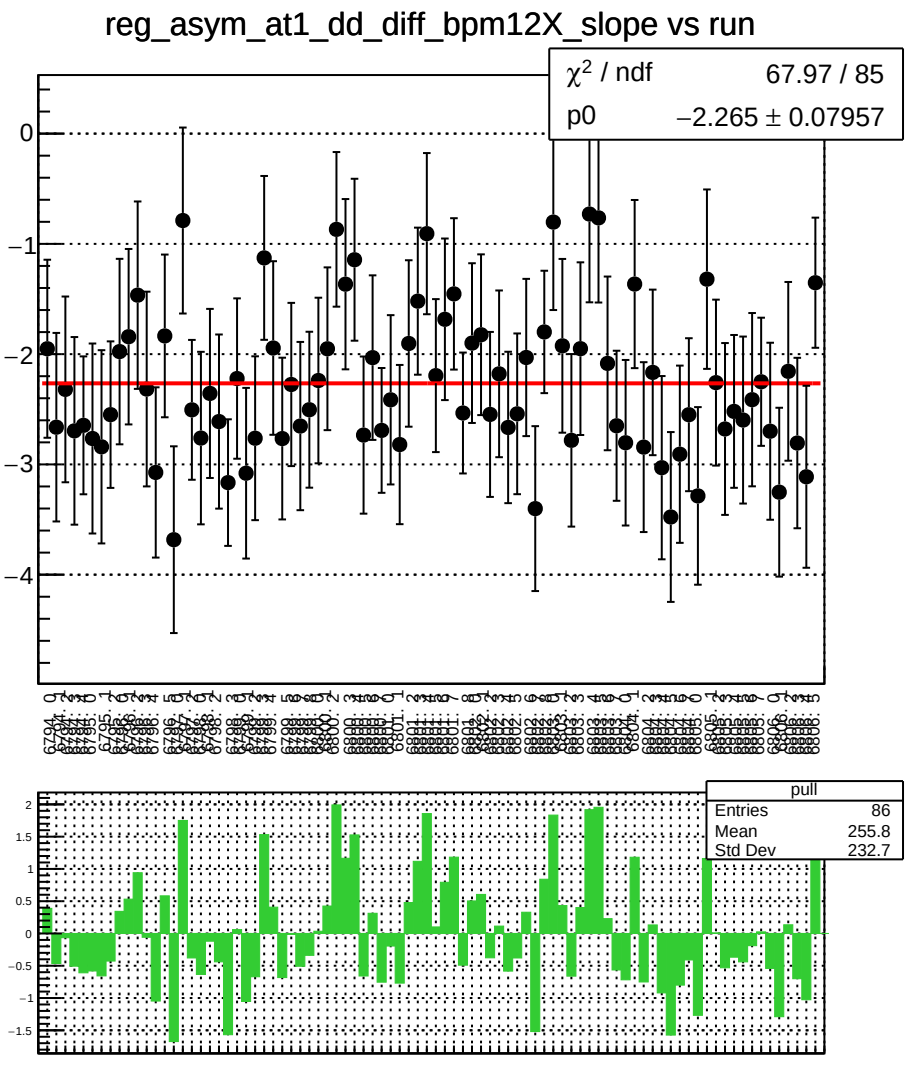

pull1D
Entries 86
Mean −0.01533
Std Dev 0.9198

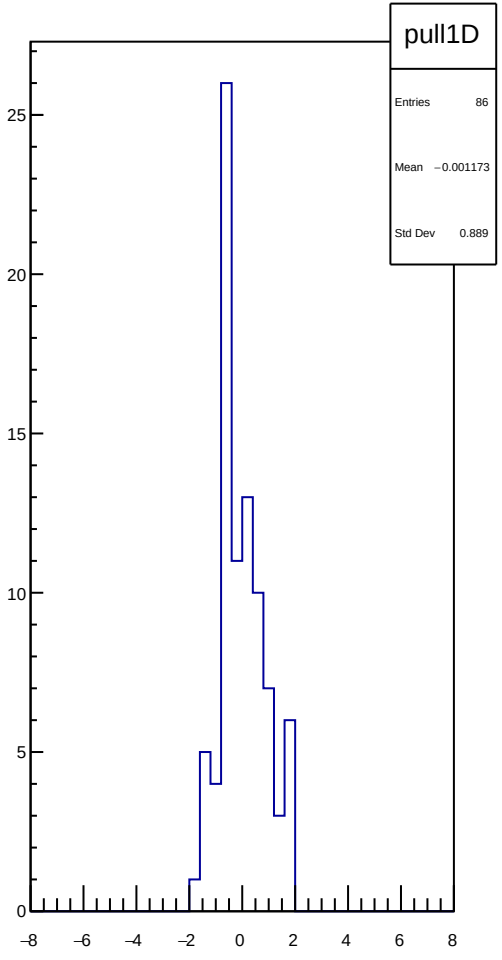

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.79 / 85
p0 1.234 ± 0.9946
pull
Entries 86
Mean −45.48
Std Dev 0
pull1D
Entries 86
Mean 0.007927
Std Dev 0.9632

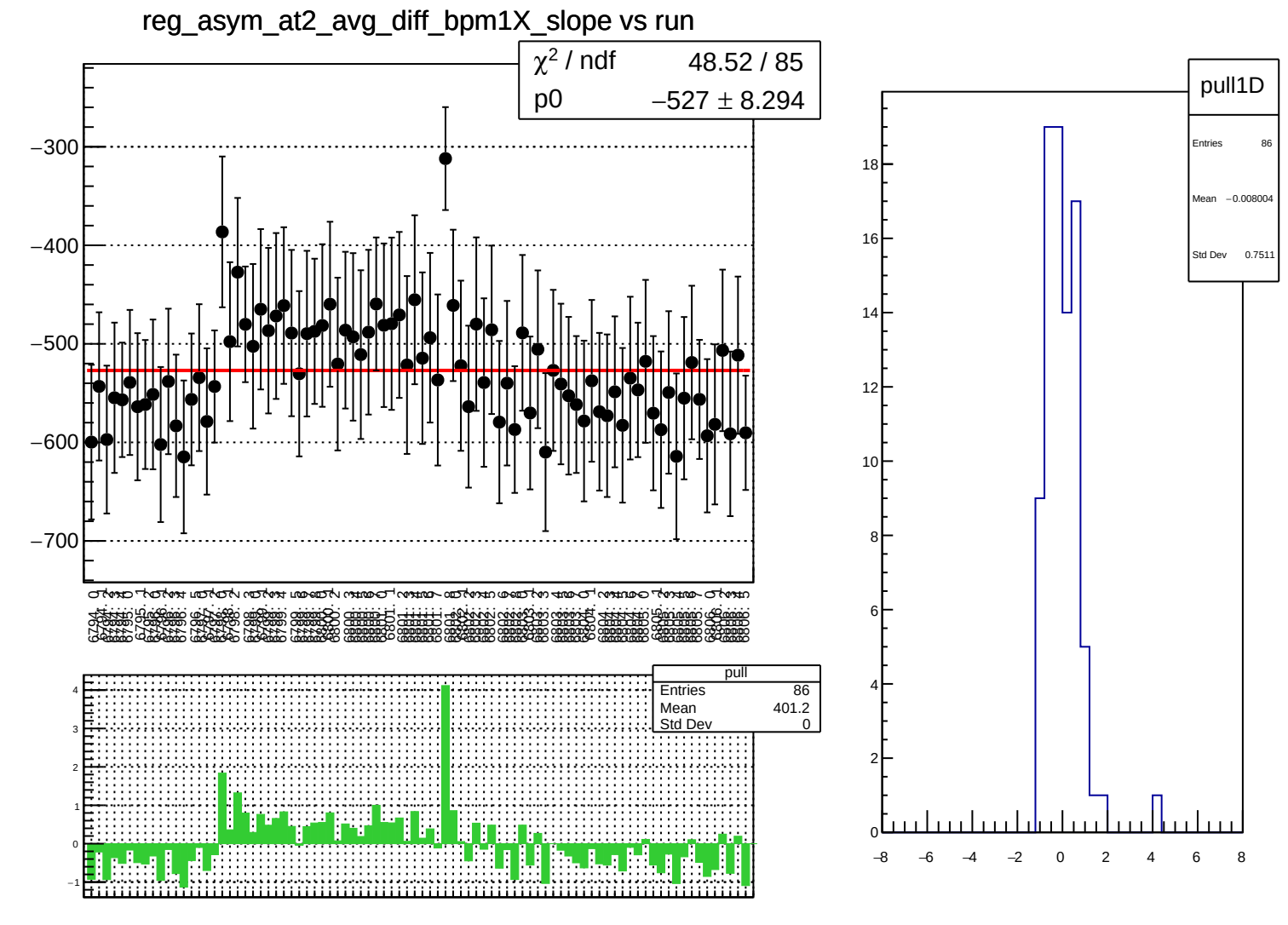

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.18 / 85
p0 36.59 ± 1.971
pull
Entries 86
Mean 13.62
Std Dev 0

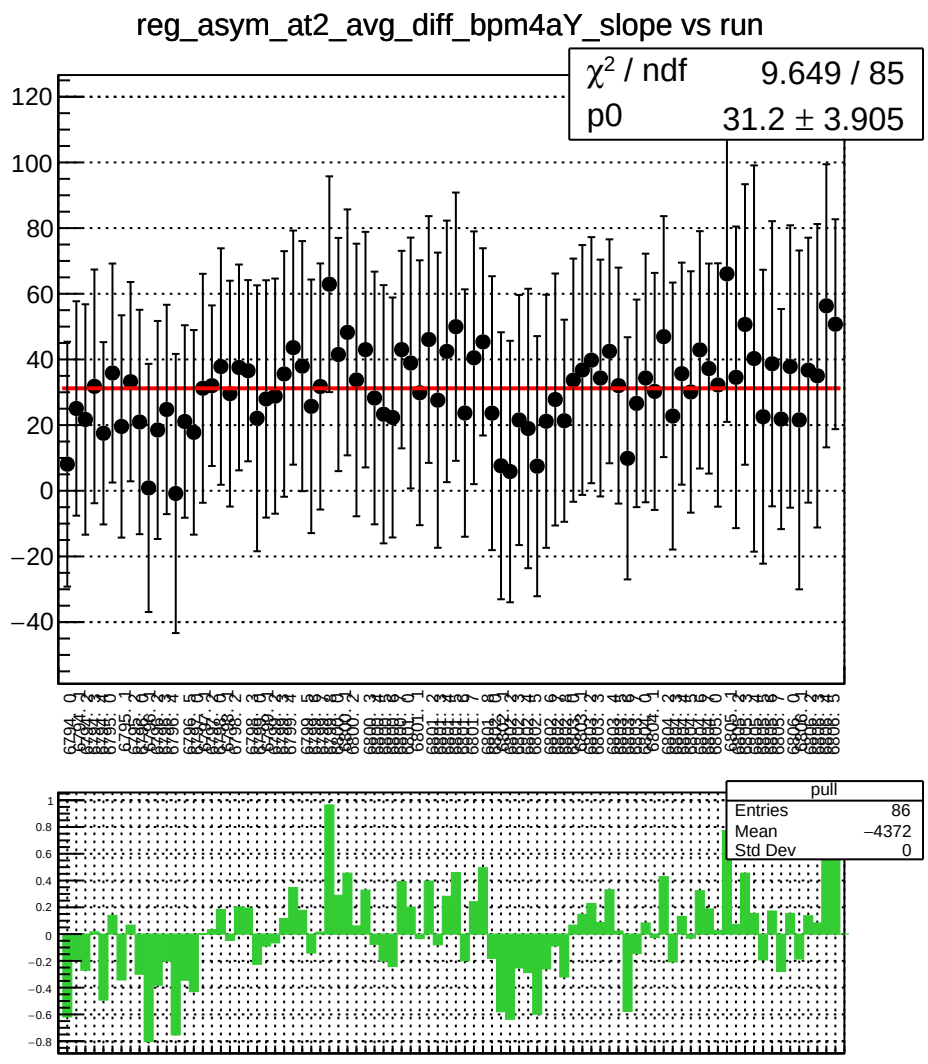

pull1D
Entries 86
Mean 0.0194
Std Dev 0.9285

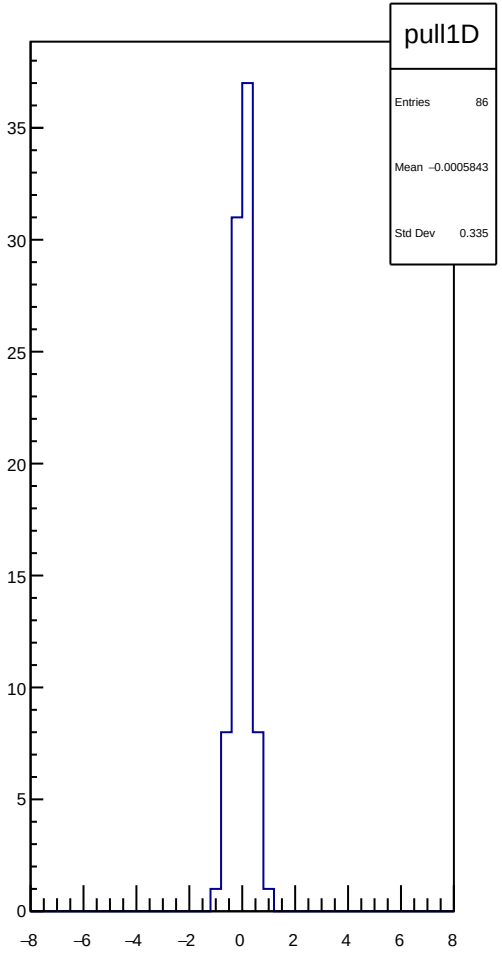

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.3 / 85
p0 −0.6831 ± 1.384
pull
Entries 86
Mean −310.3
Std Dev 0
pull1D
Entries 86
Mean −0.005124
Std Dev 0.9294

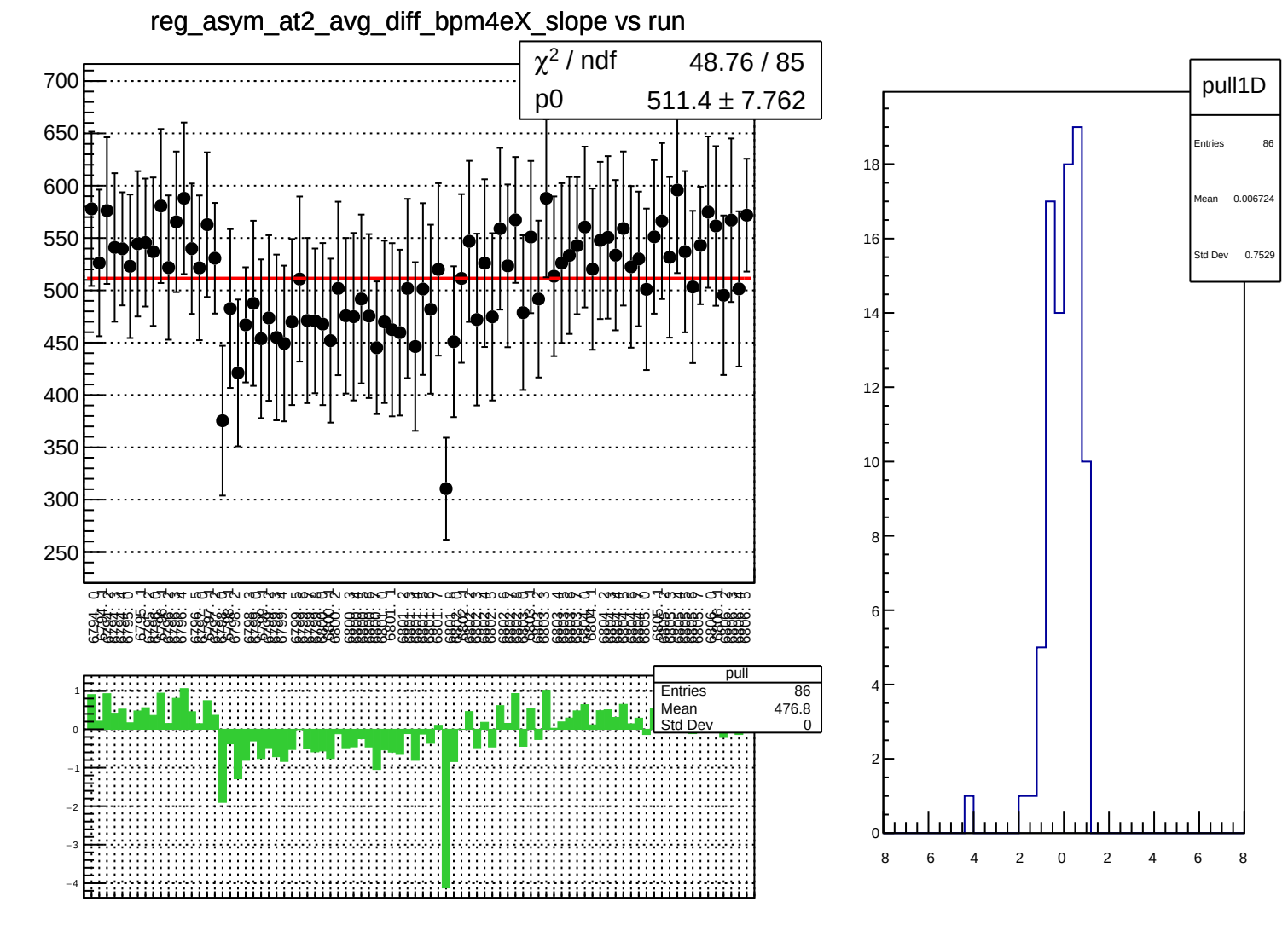

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 67.97 / 85
p0 −2.265 ± 0.07957
pull
Entries 86
Mean 255.8
Std Dev 232.7

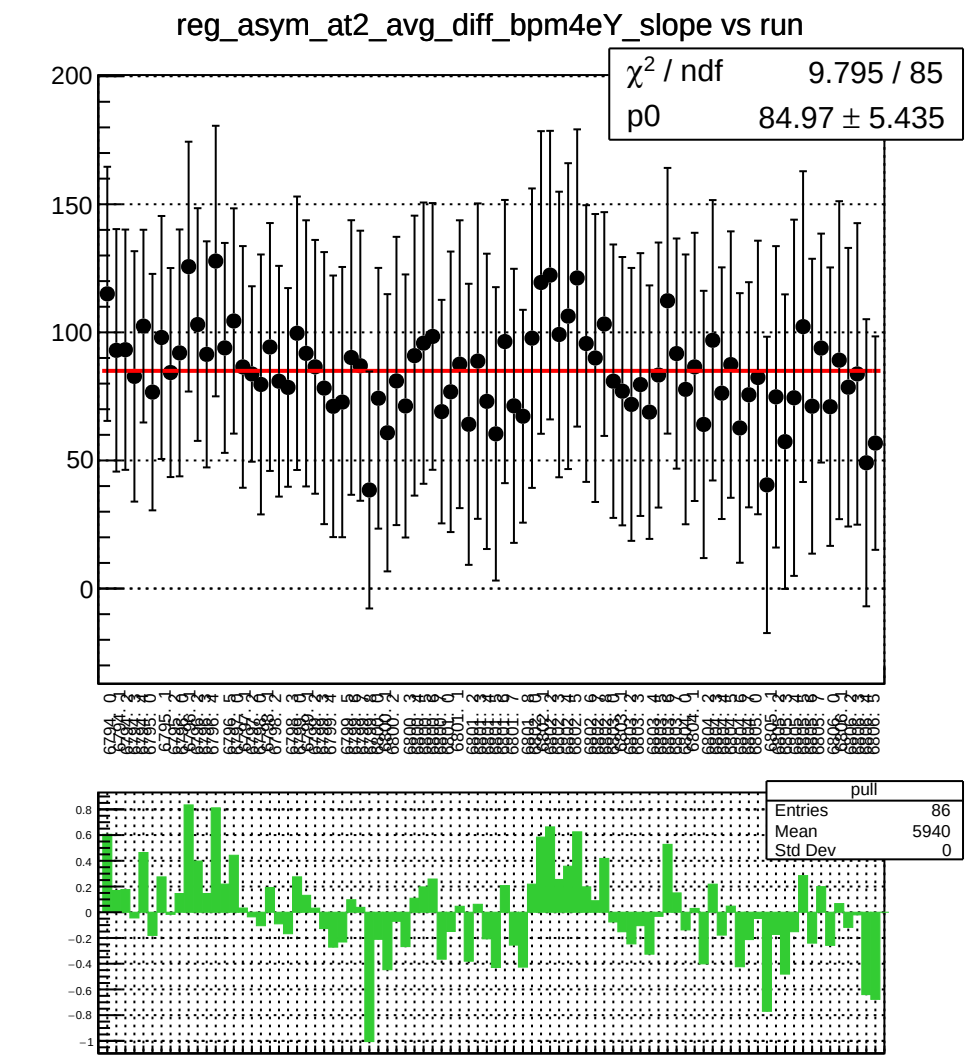

pull1D
Entries 86
Mean −0.001173
Std Dev 0.889

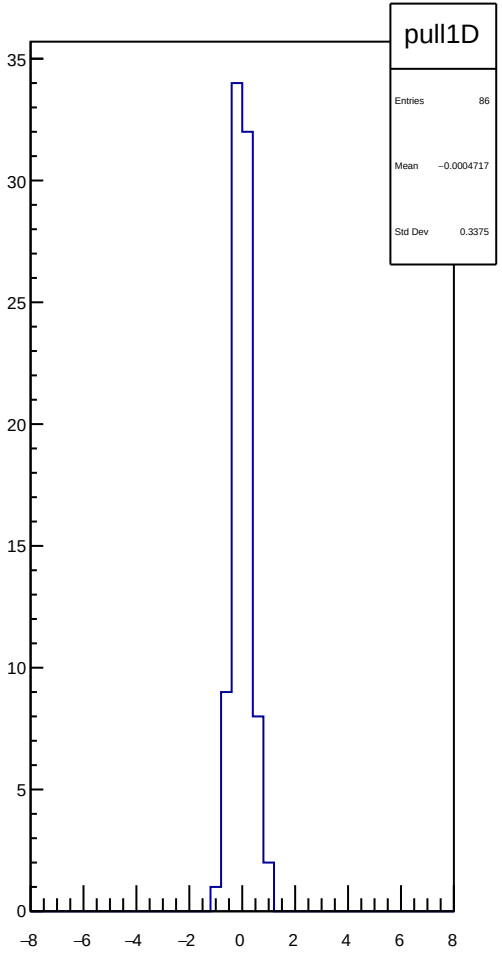

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 48.52 / 85
p0 −527 ± 8.294
−300
−400
−500
−600
−700
pull
Entries 86
Mean 401.2
Std Dev 0
pull1D
Entries 86
Mean −0.008004
Std Dev 0.7511

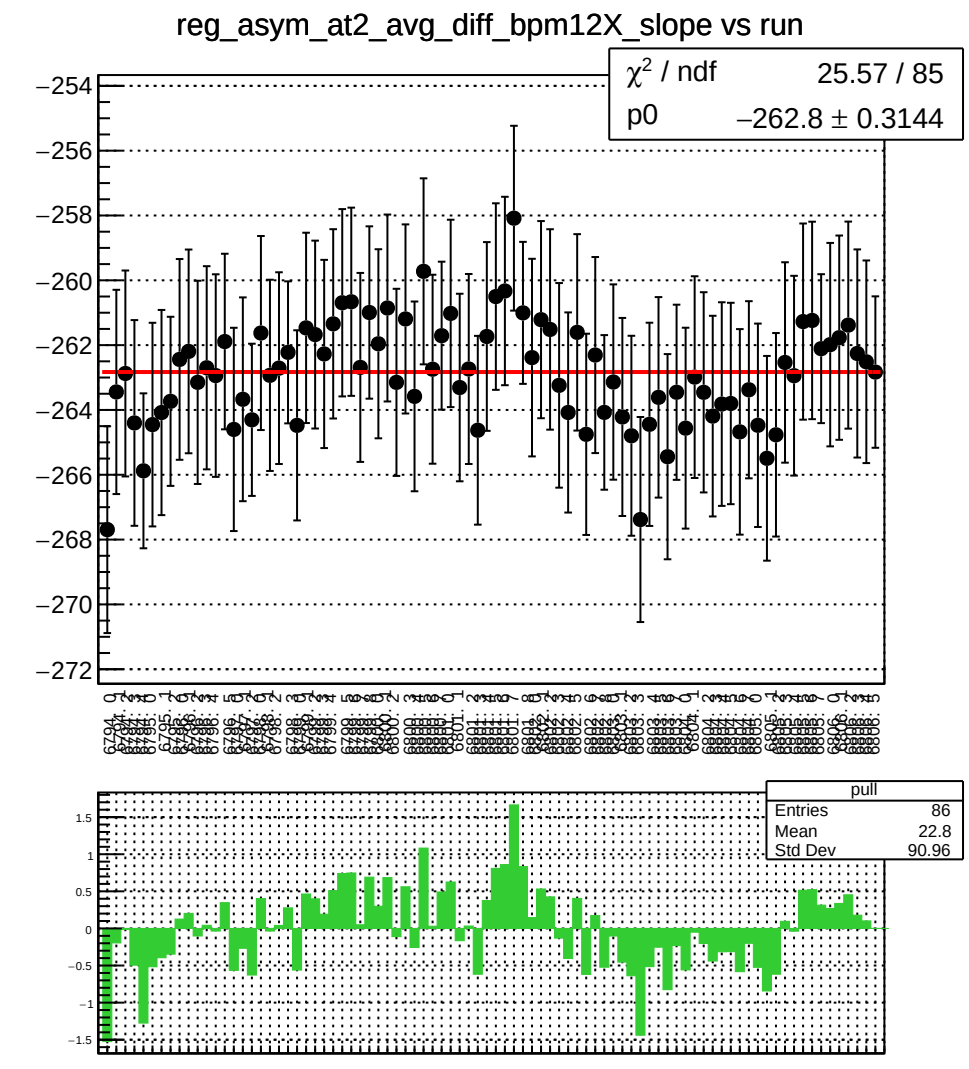

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.649 / 85
p0 31.2 ± 3.905
pull
Entries 86
Mean −4372
Std Dev 0

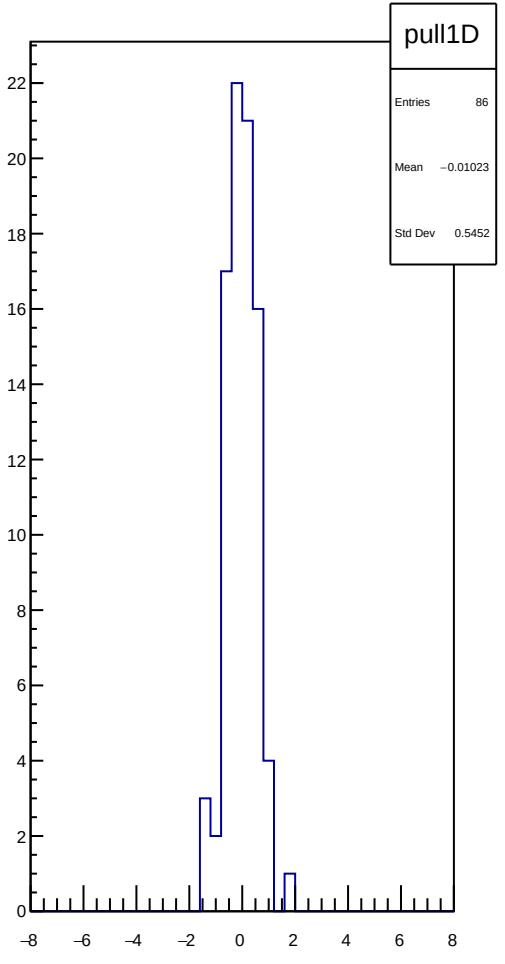

pull1D
Entries 86
Mean −0.0005843
Std Dev 0.335

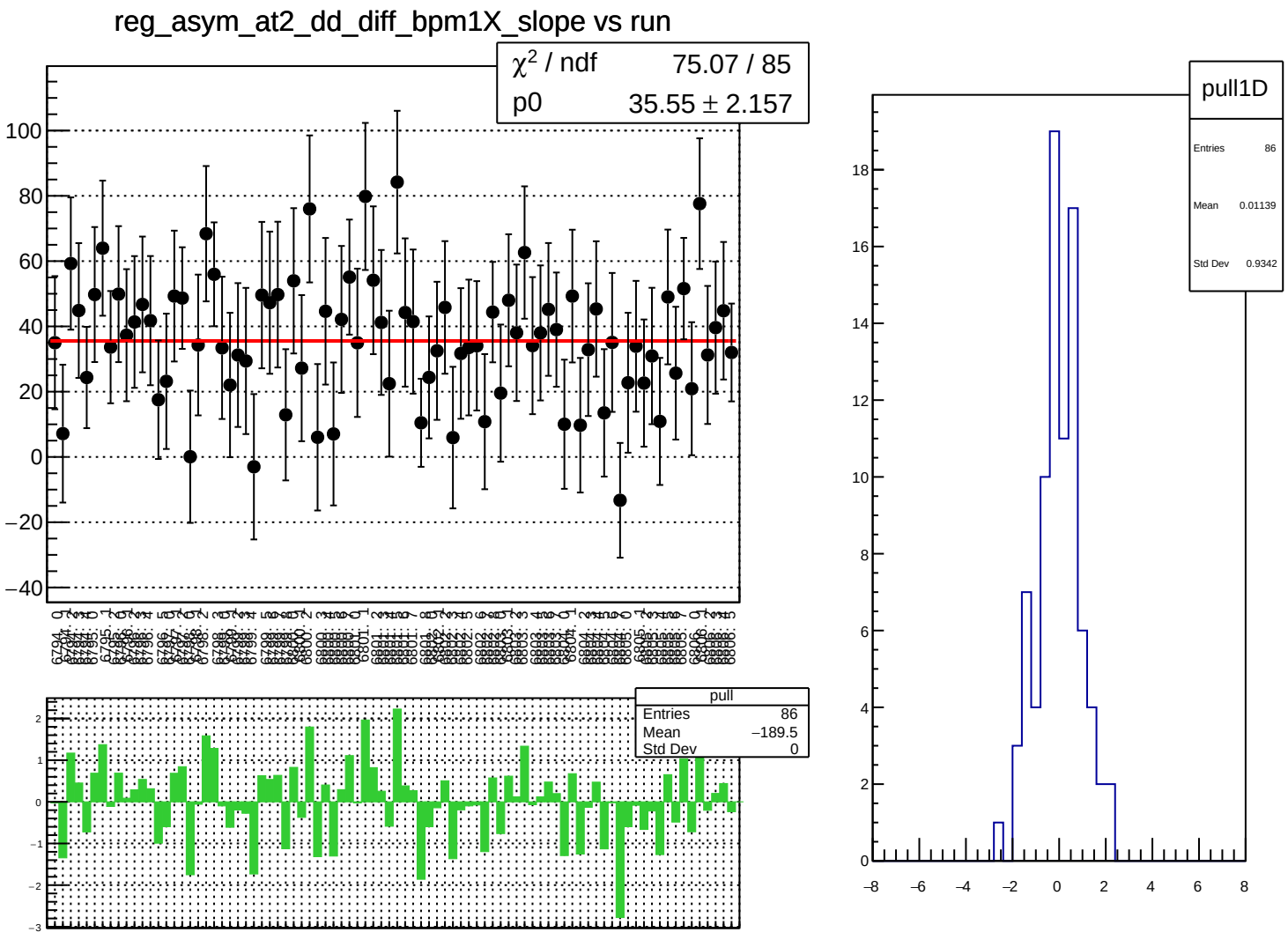

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.76 / 85
p0 511.4 ± 7.762
700
650
600
550
500
450
400
350
300
250
pull
Entries 86
Mean 476.8
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.006724
Std Dev 0.7529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

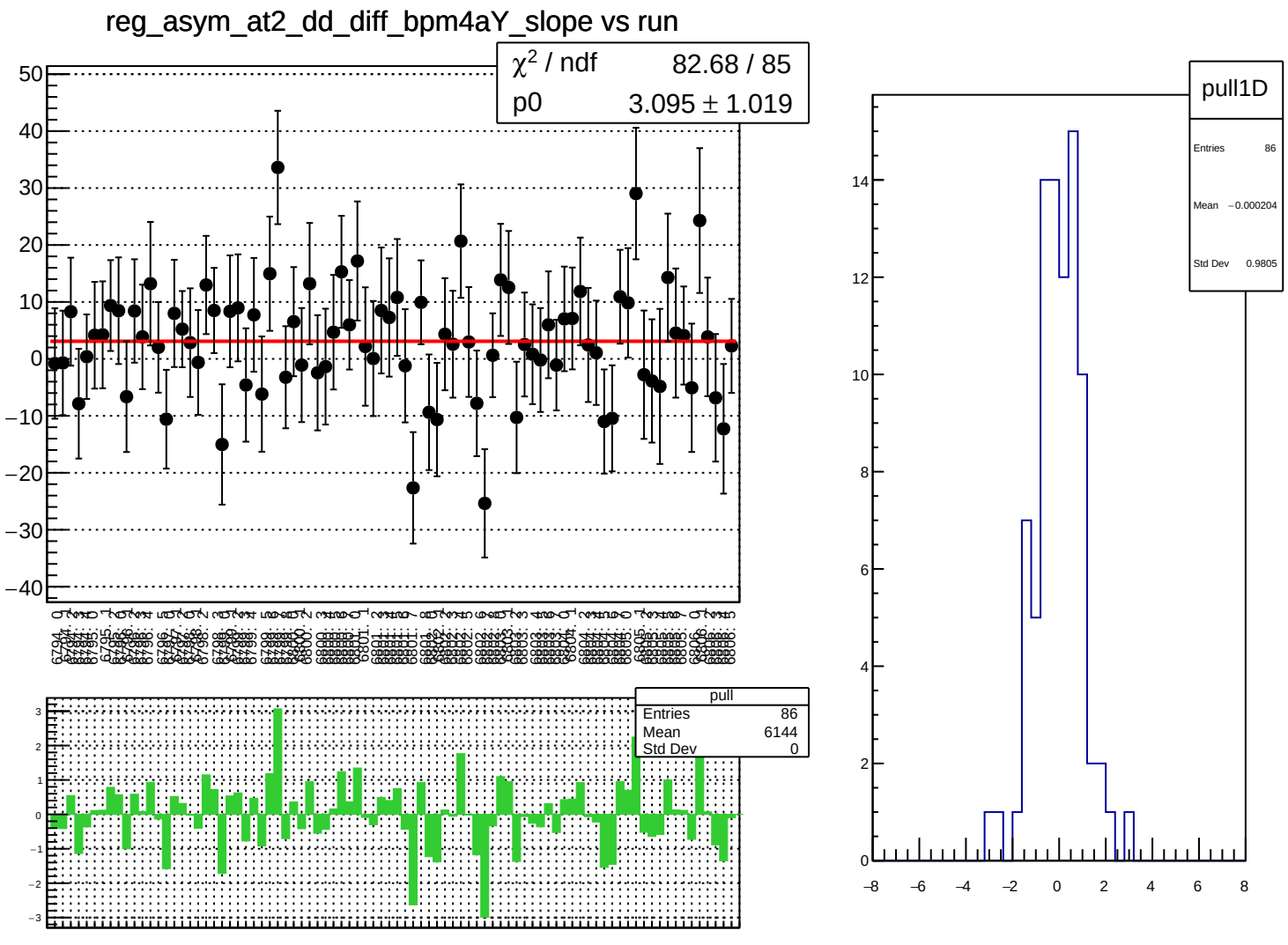

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.795 / 85
p0 84.97 ± 5.435
200
150
100
50
0
pull
Entries 86
Mean 5940
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

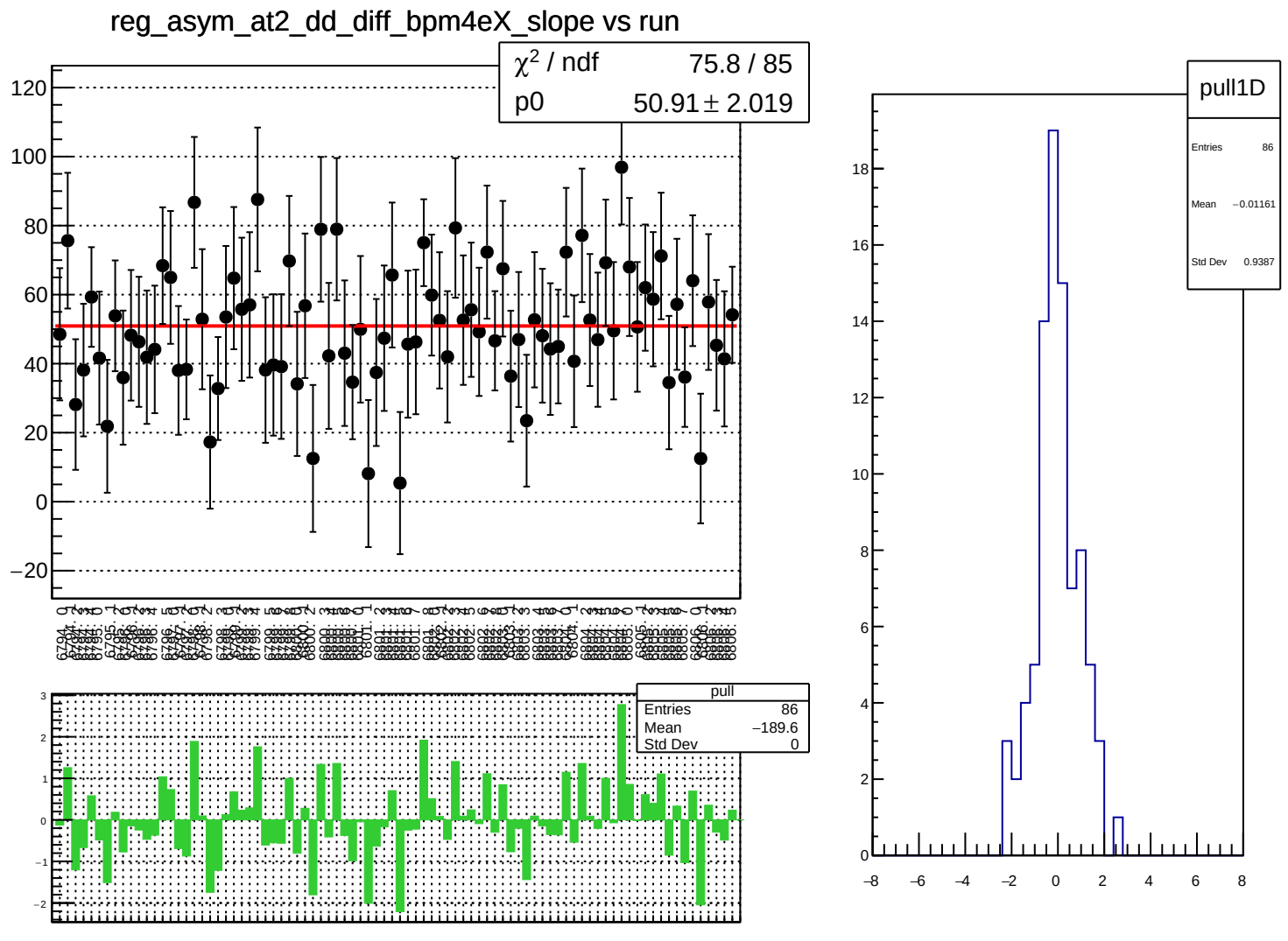

pull1D
Entries 86
Mean −0.0004717
Std Dev 0.3375
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

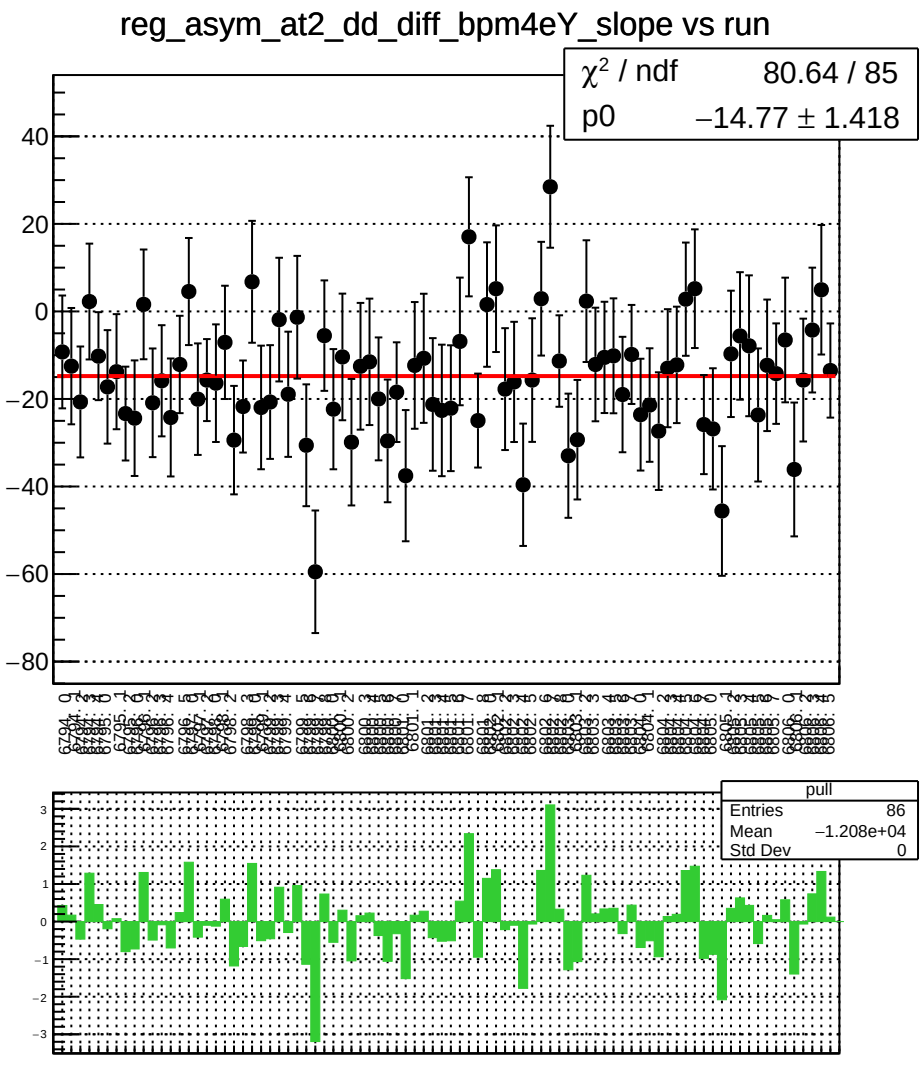

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.57 / 85
p0 −262.8 ± 0.3144
pull
Entries 86
Mean 22.8
Std Dev 90.96

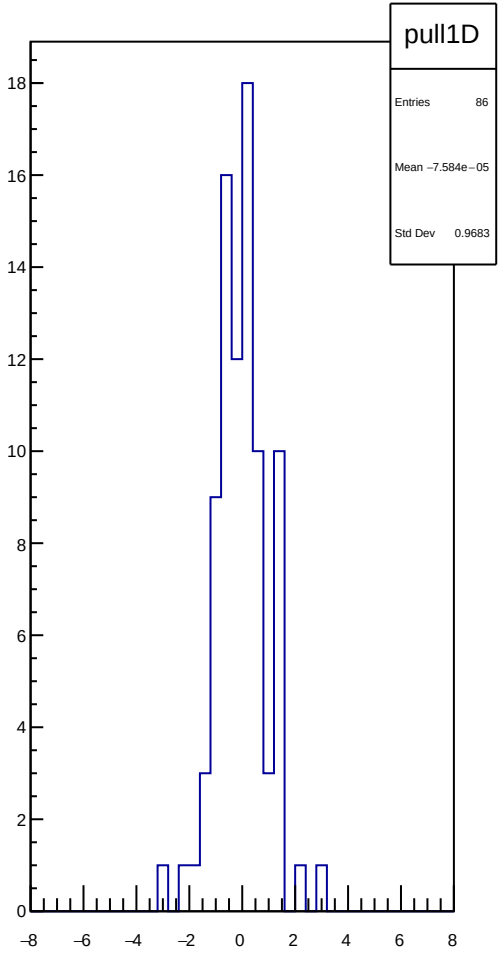

pull1D
Entries 86
Mean −0.01023
Std Dev 0.5452

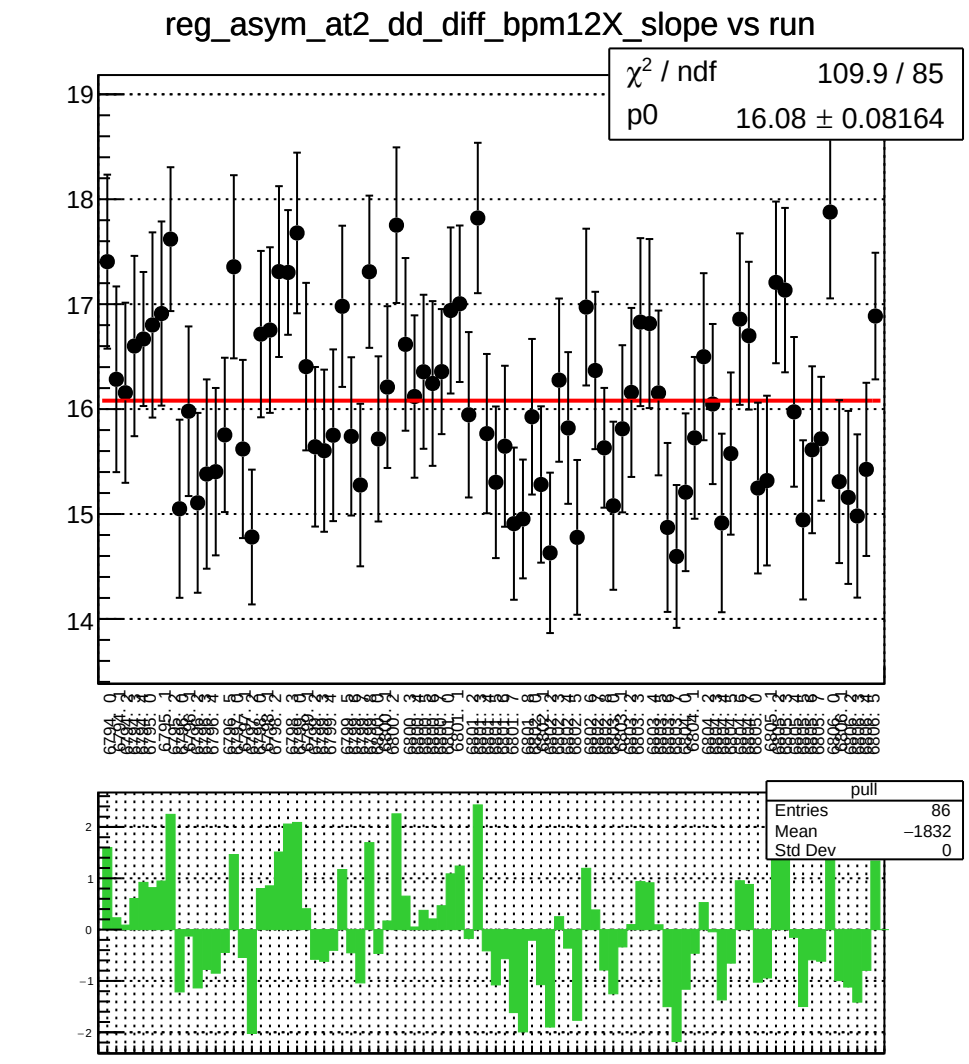

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 75.07 / 85
p0 35.55 ± 2.157
pull
Entries 86
Mean −189.5
Std Dev 0
pull1D
Entries 86
Mean 0.01139
Std Dev 0.9342

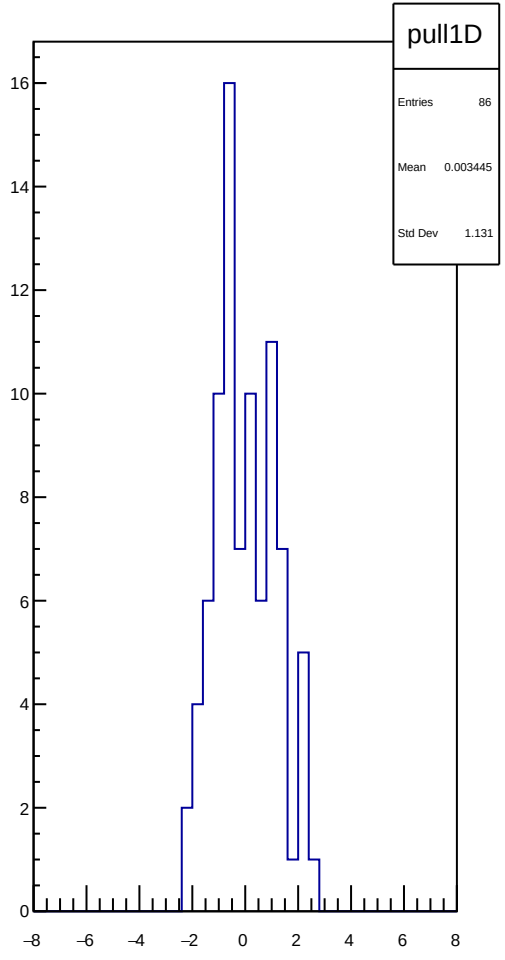

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.68 / 85
p0 3.095 ± 1.019
pull
Entries 86
Mean 6144
Std Dev 0
pull1D
Entries 86
Mean −0.000204
Std Dev 0.9805

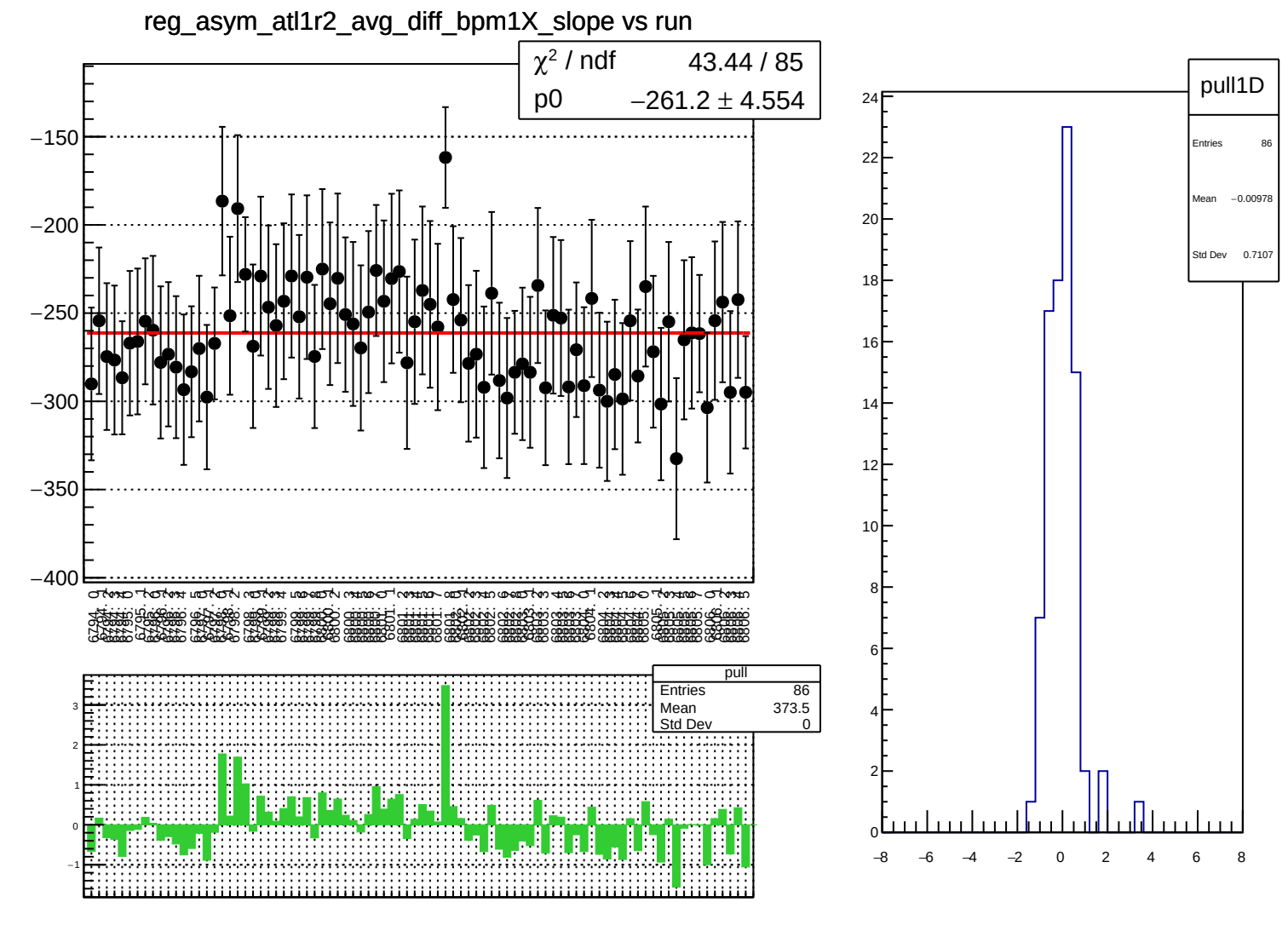

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.8 / 85
p0 50.91 ± 2.019
pull
Entries 86
Mean −189.6
Std Dev 0
pull1D
Entries 86
Mean −0.01161
Std Dev 0.9387

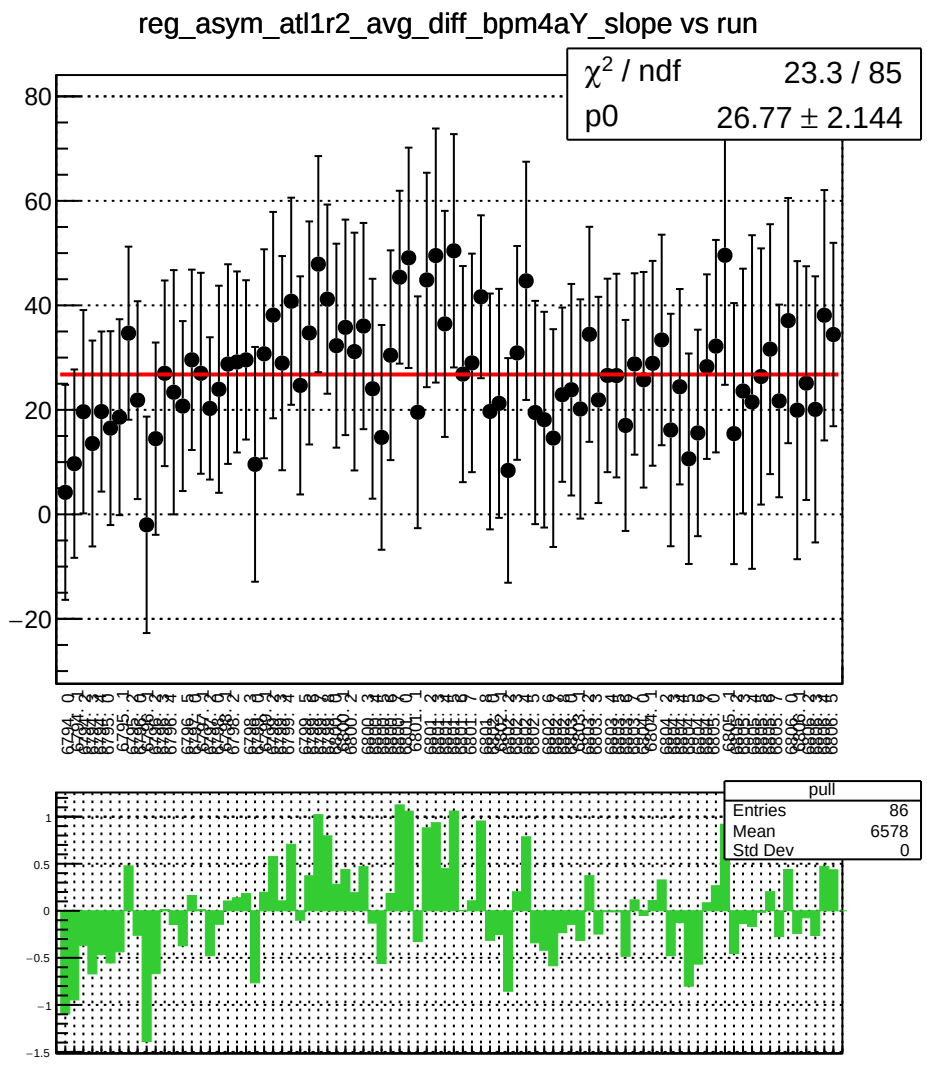

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 80.64 / 85
p0 −14.77 ± 1.418
pull
Entries 86
Mean −1.208e+04
Std Dev 0

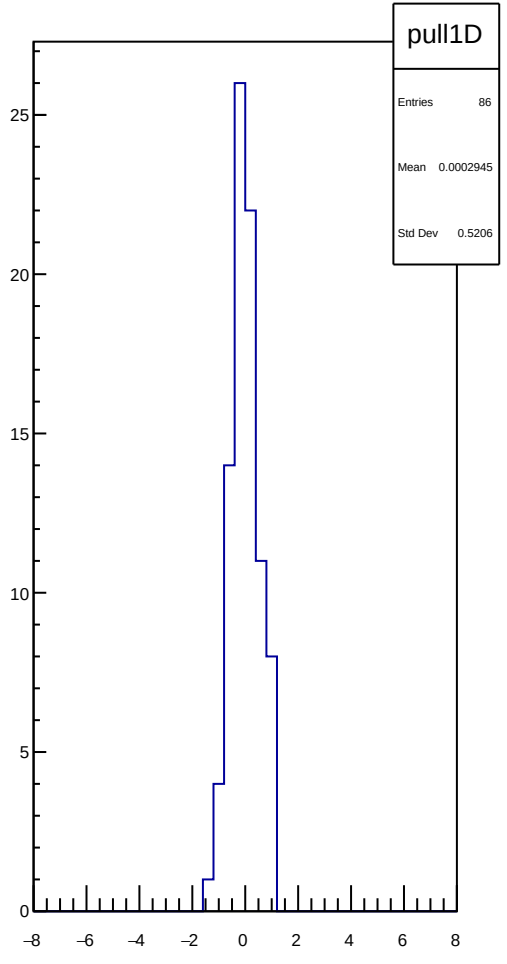

pull1D
Entries 86
Mean −7.584e−05
Std Dev 0.9683

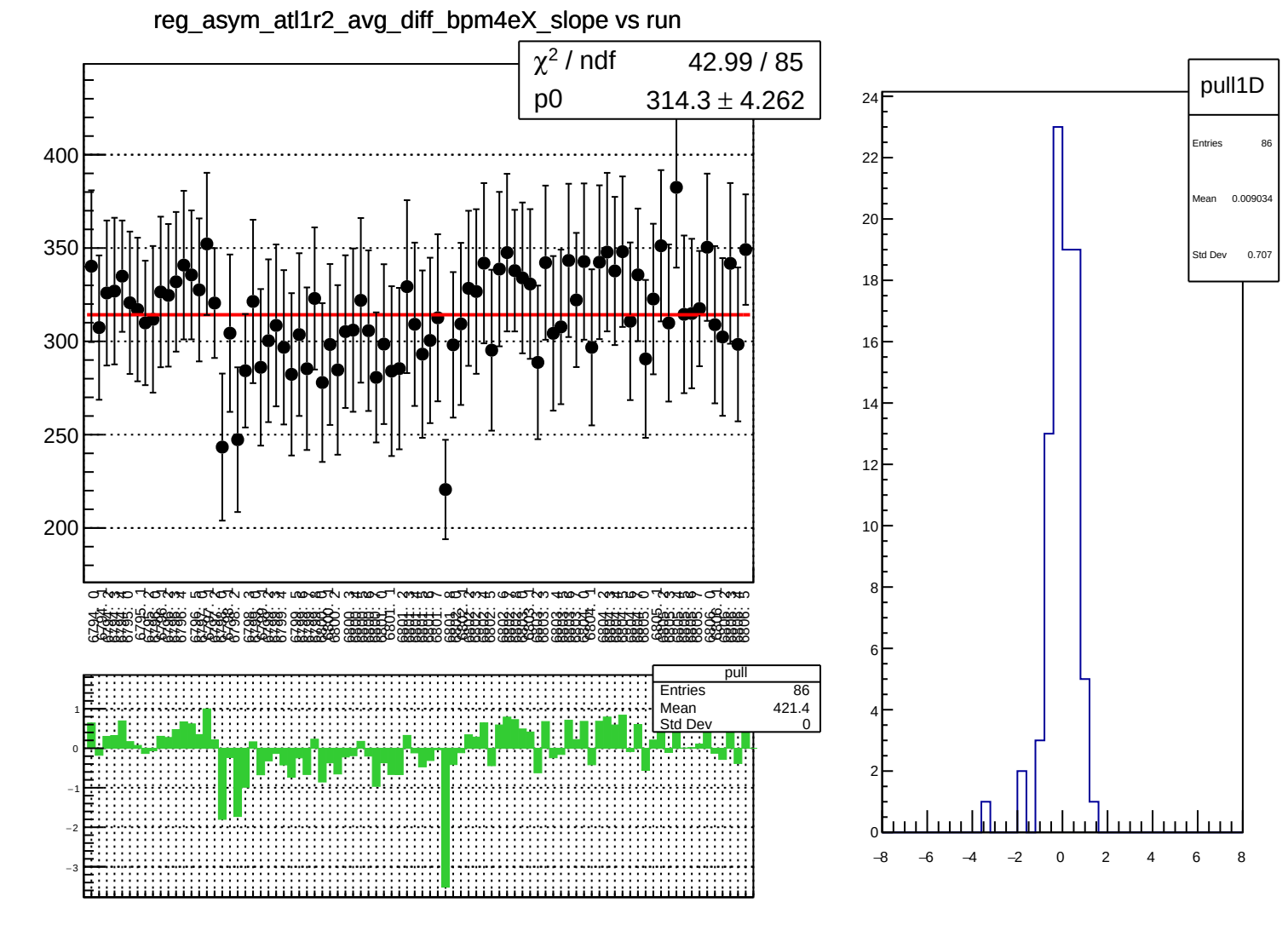

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 109.9 / 85
p0 16.08 ± 0.08164
pull
Entries 86
Mean −1832
Std Dev 0

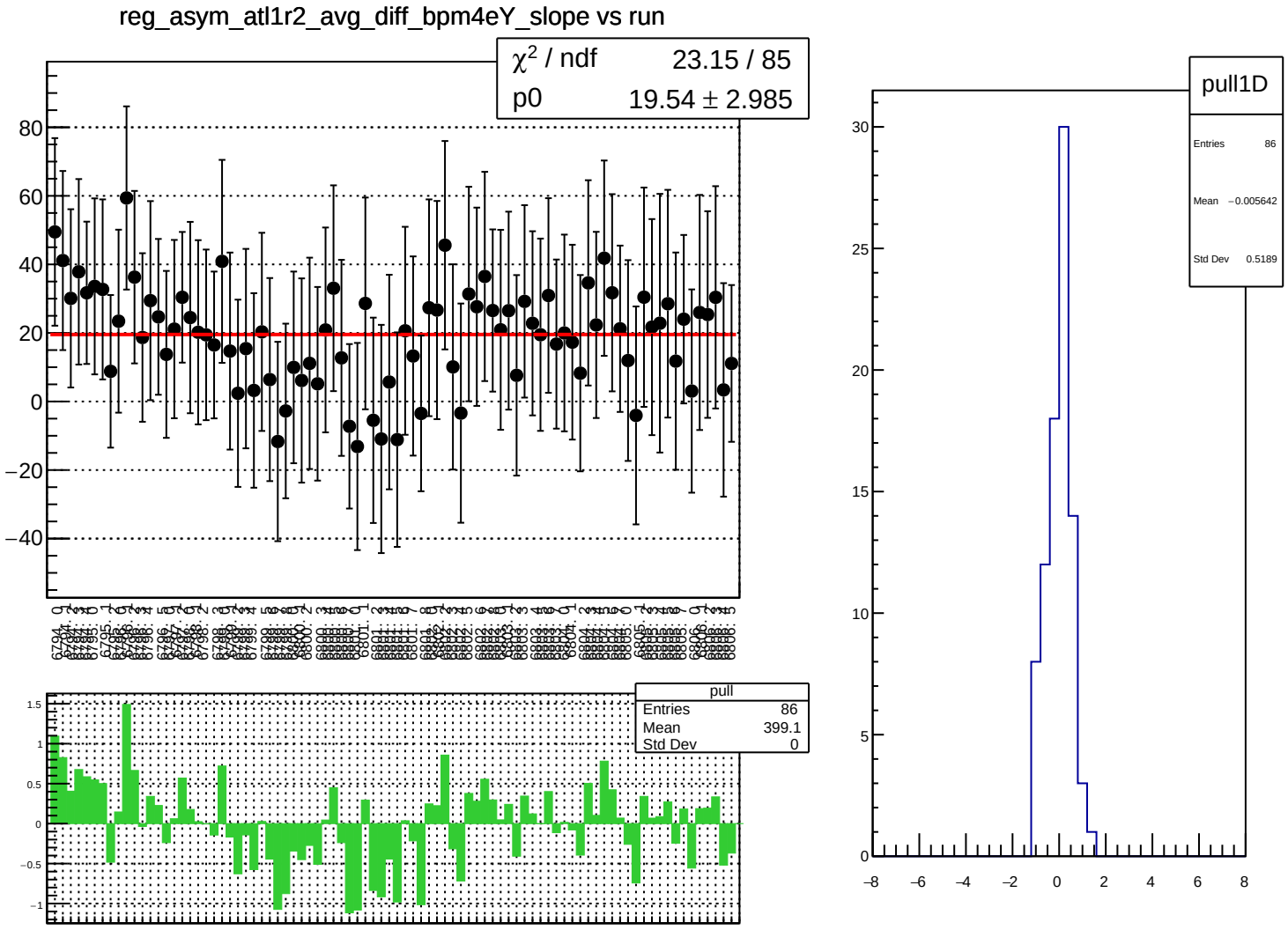

pull1D
Entries 86
Mean 0.003445
Std Dev 1.131

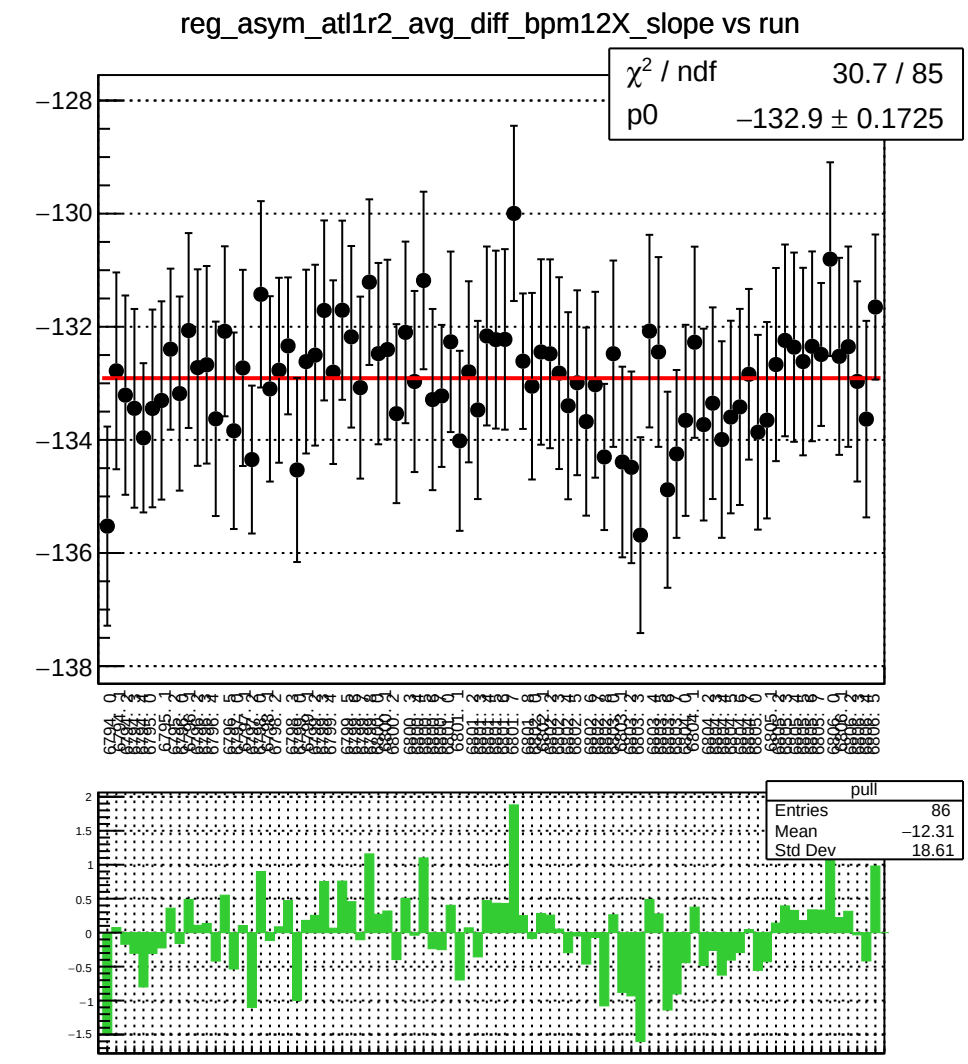

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 43.44 / 85
p0 −261.2 ± 4.554
pull
Entries 86
Mean 373.5
Std Dev 0
pull1D
Entries 86
Mean −0.00978
Std Dev 0.7107

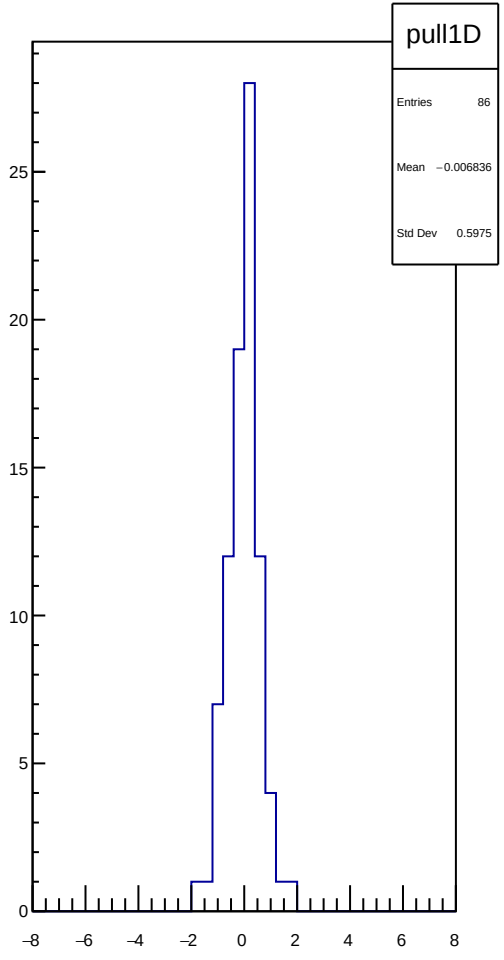

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.3 / 85
p0 26.77 ± 2.144
pull
Entries 86
Mean 6578
Std Dev 0

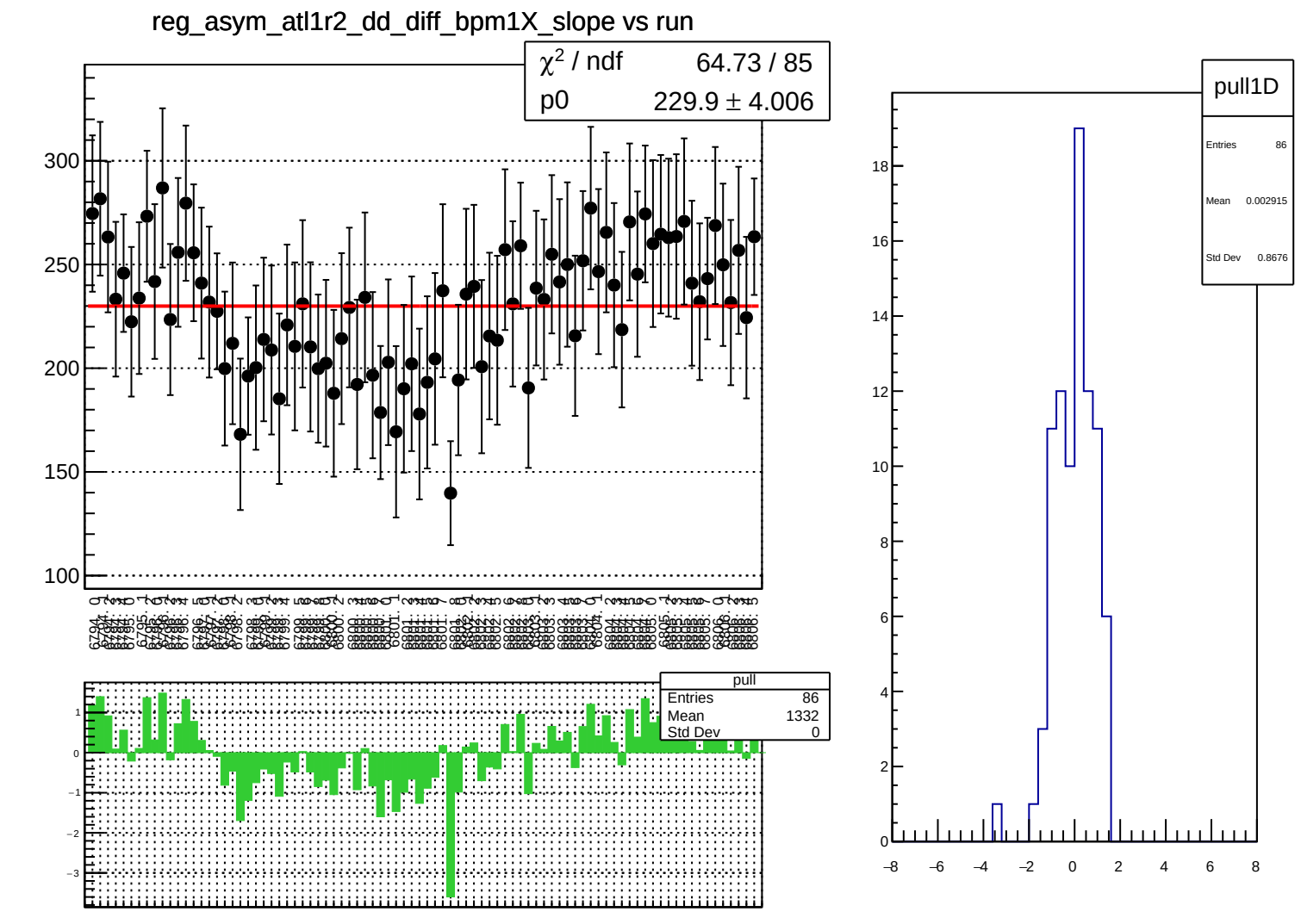

pull1D
Entries 86
Mean 0.0002945
Std Dev 0.5206

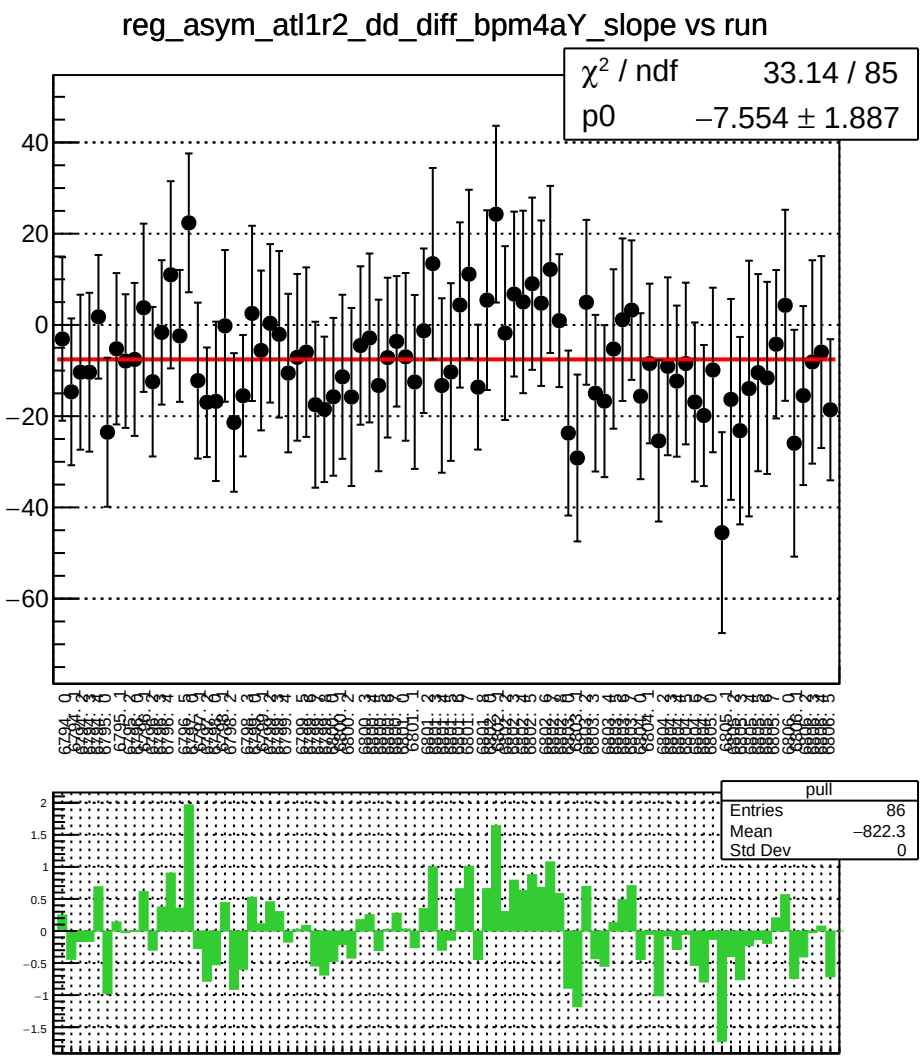

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.99 / 85
p0 314.3 ± 4.262
pull
Entries 86
Mean 421.4
Std Dev 0
pull1D
Entries 86
Mean 0.009034
Std Dev 0.707

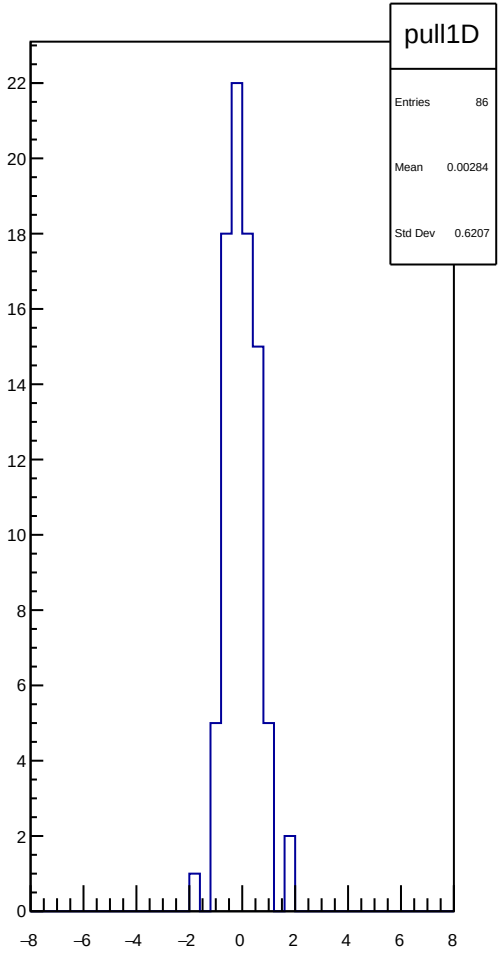

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.15 / 85
p0 19.54 ± 2.985
pull
Entries 86
Mean 399.1
Std Dev 0
pull1D
Entries 86
Mean −0.005642
Std Dev 0.5189

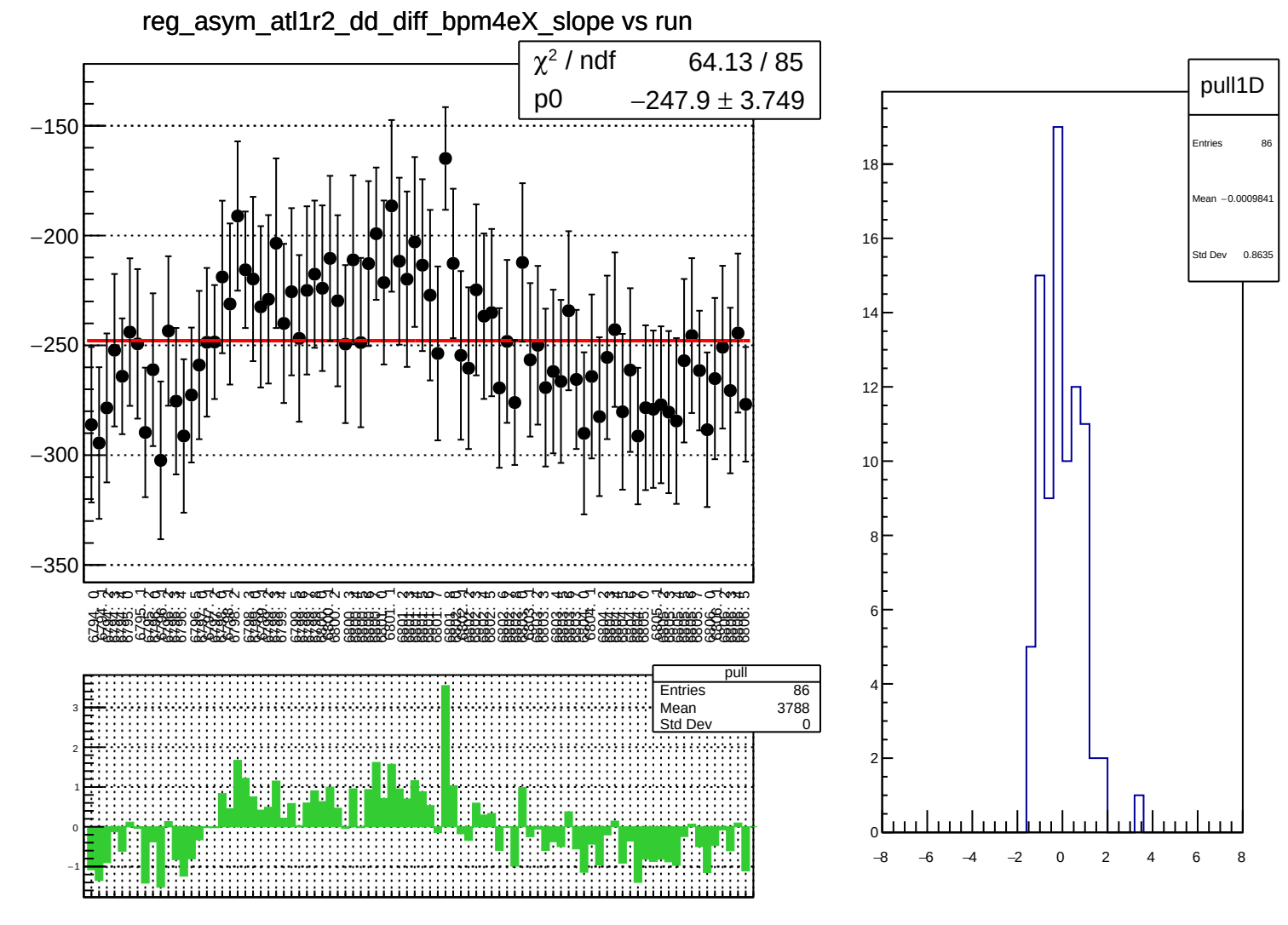

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 30.7 / 85
p0 −132.9 ± 0.1725
−128
−130
−132
−134
−136
−138
pull
Entries 86
Mean −12.31
Std Dev 18.61
2
1.5
1
0.5
0
−0.5
−1
−1.5

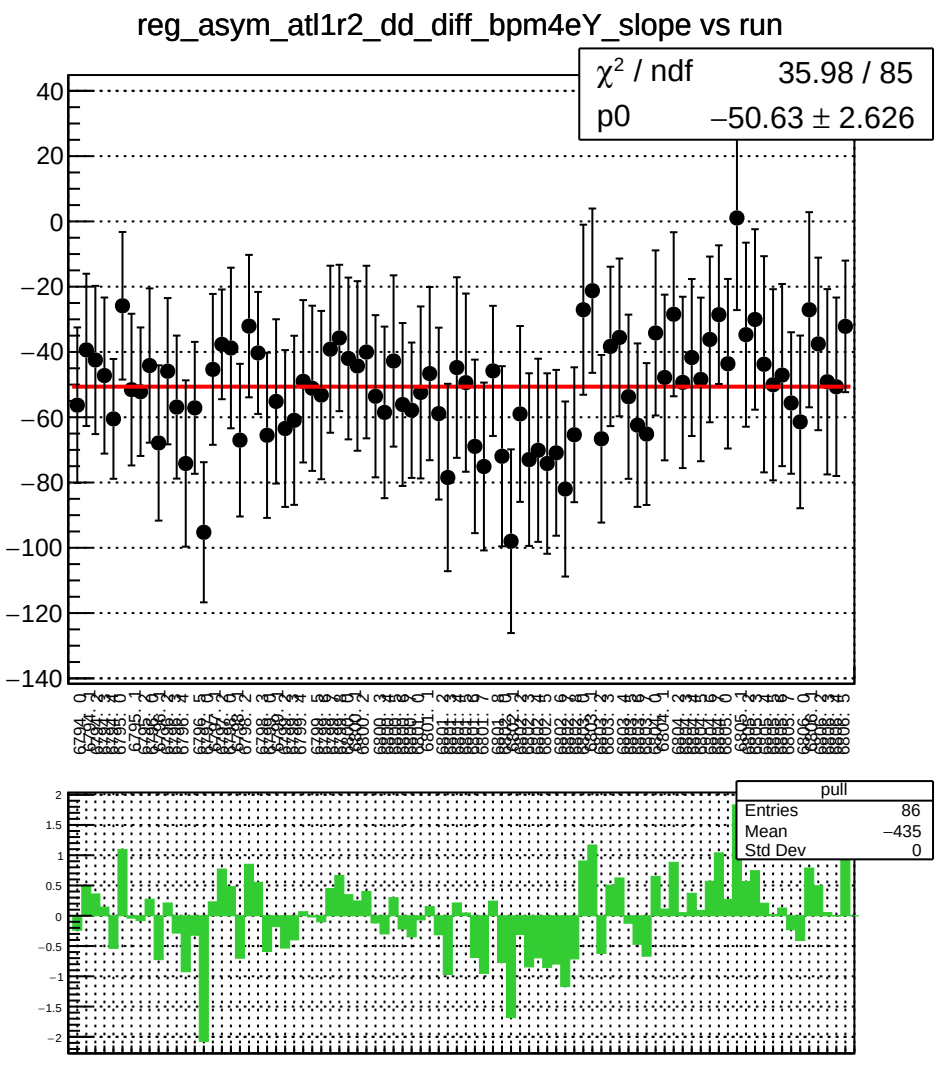

pull1D
Entries 86
Mean −0.006836
Std Dev 0.5975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

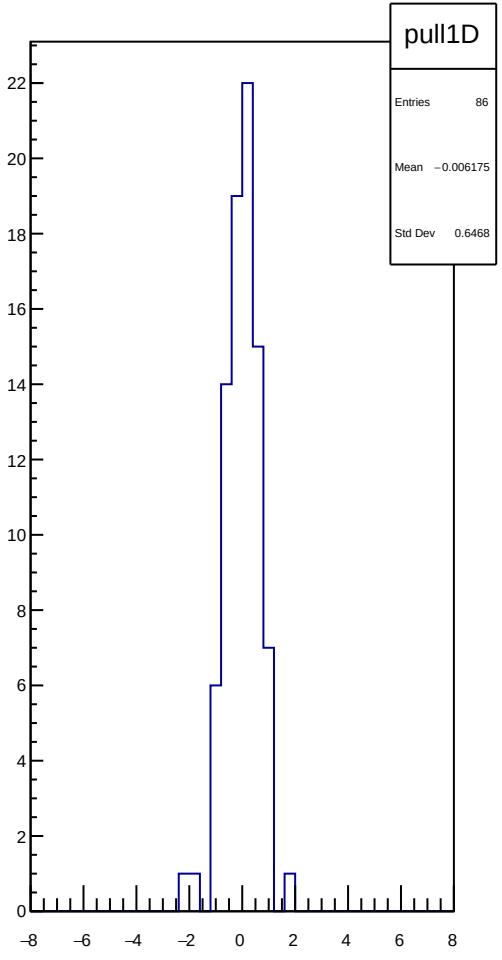

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 64.73 / 85
p0 229.9 ± 4.006
300
250
200
150
100
pull
Entries 86
Mean 1332
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.002915
Std Dev 0.8676
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

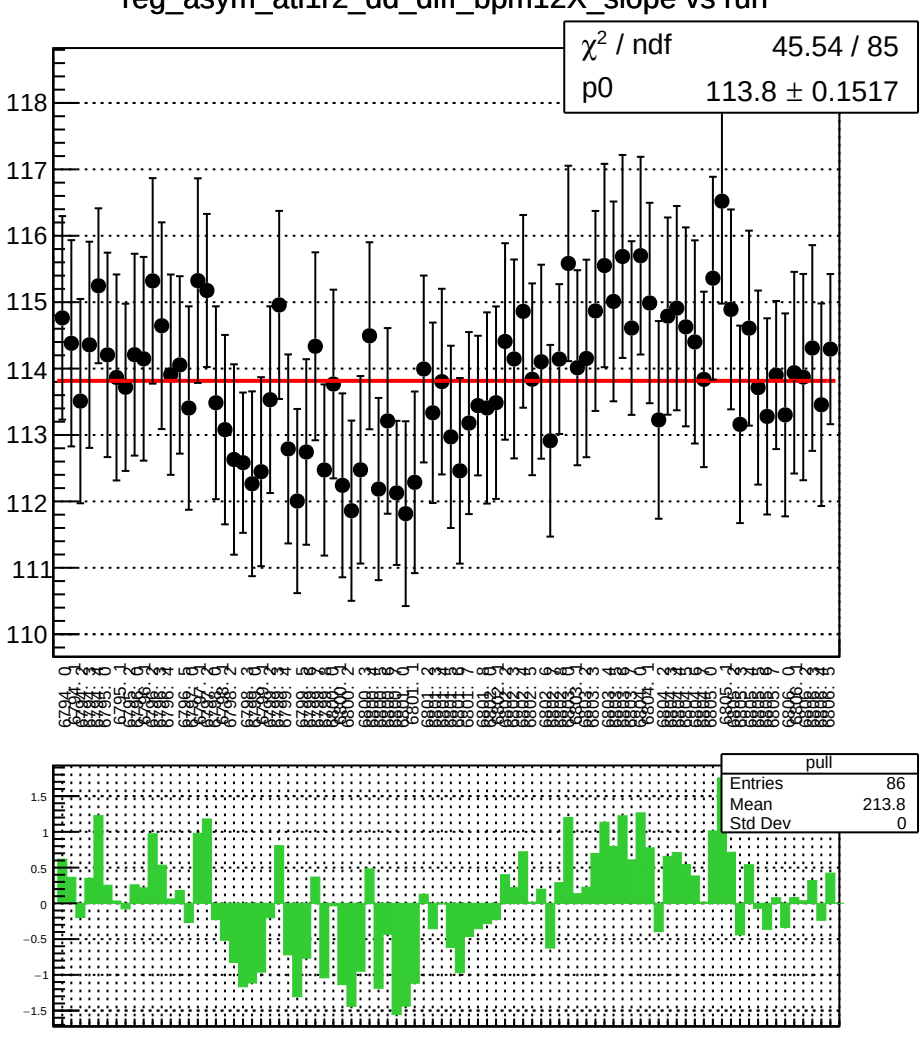

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.14 / 85
p0 −7.554 ± 1.887
pull
Entries 86
Mean −822.3
Std Dev 0

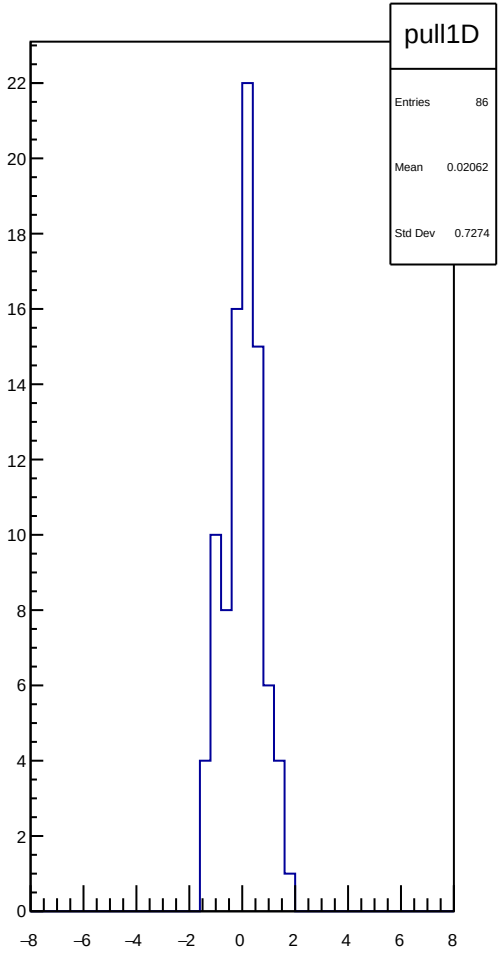

pull1D
Entries 86
Mean 0.00284
Std Dev 0.6207

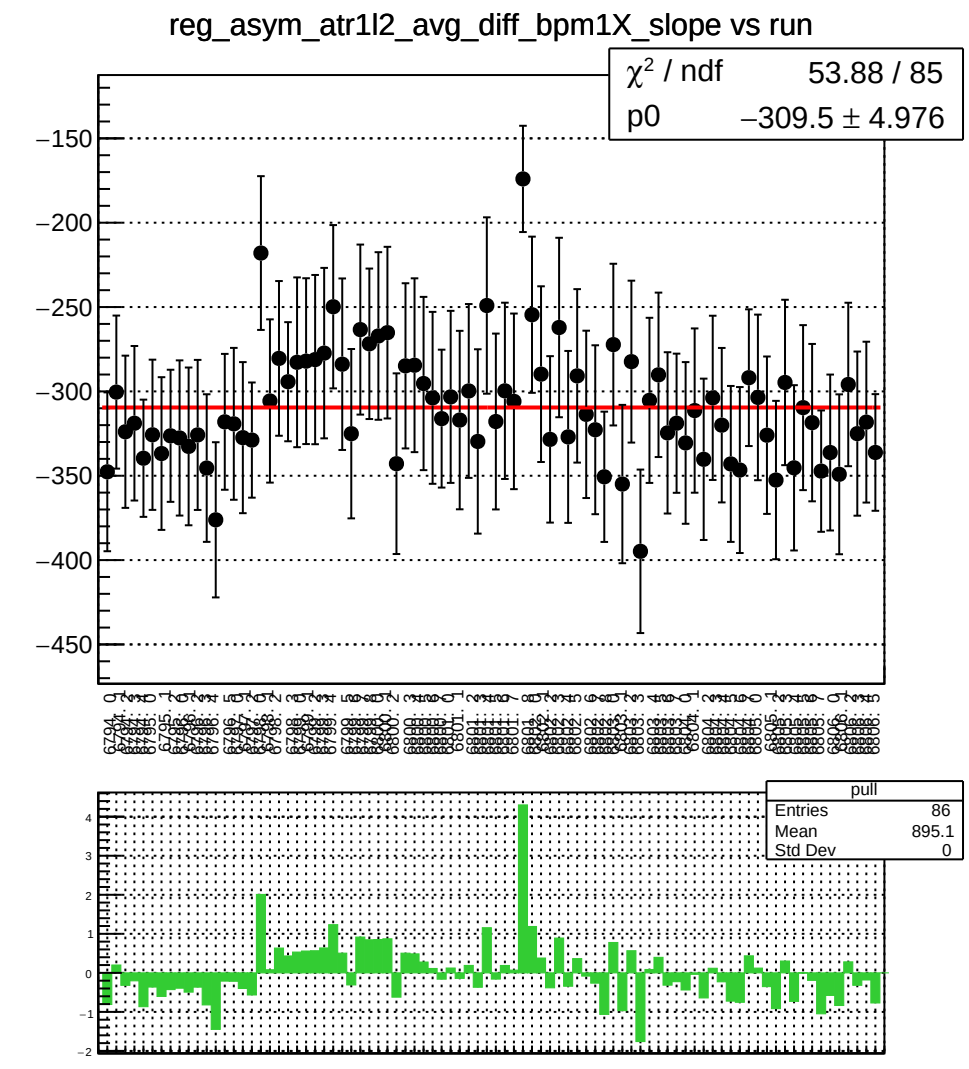

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 64.13 / 85
p0 −247.9 ± 3.749
−150
−200
−250
−300
−350
pull
Entries 86
Mean 3788
Std Dev 0
3
2
1
0
−1
pull1D
Entries 86
Mean −0.0009841
Std Dev 0.8635
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

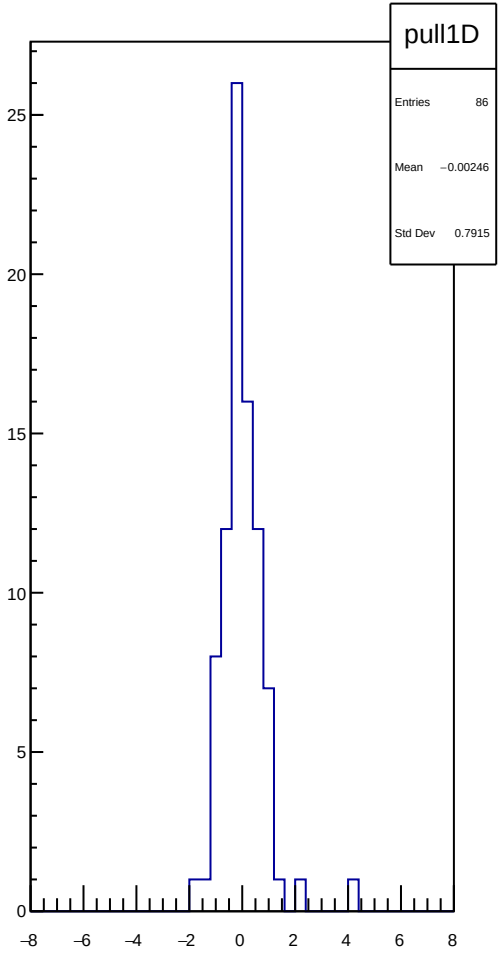

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.98 / 85
p0 −50.63 ± 2.626
pull
Entries 86
Mean −435
Std Dev 0

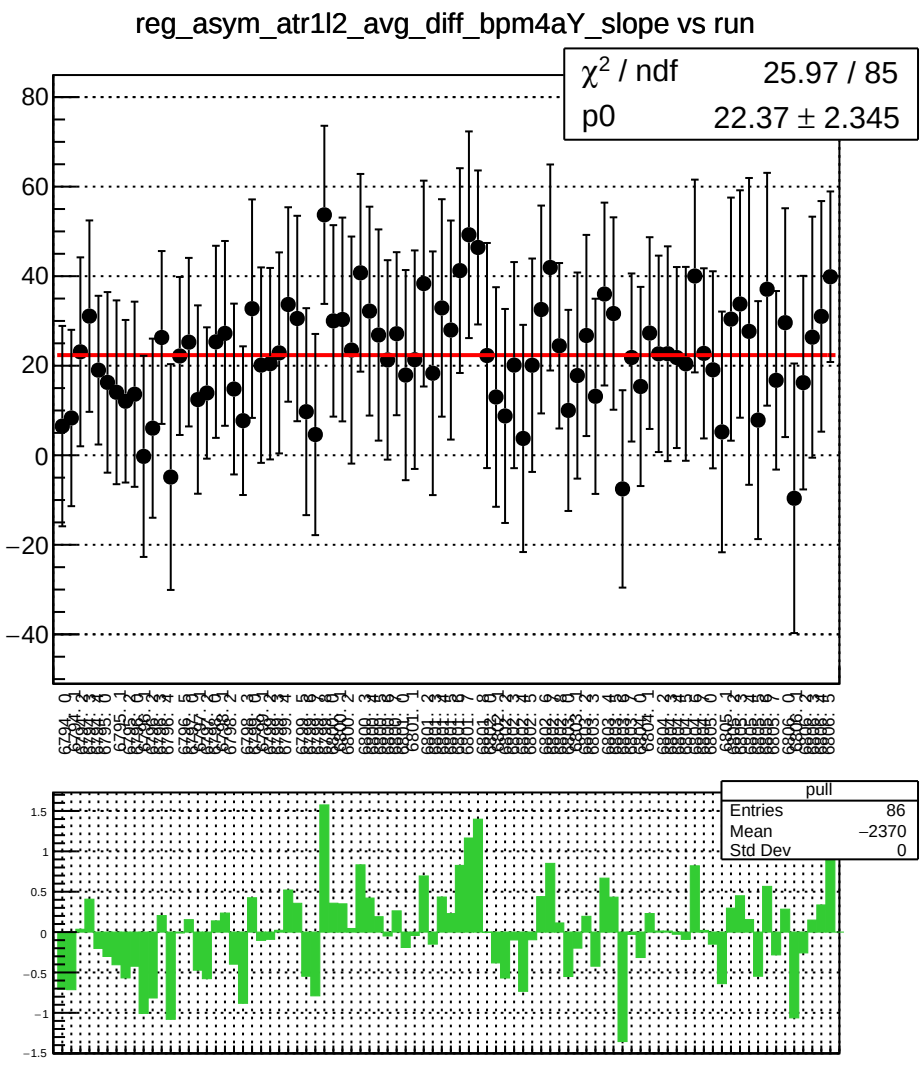

pull1D
Entries 86
Mean −0.006175
Std Dev 0.6468

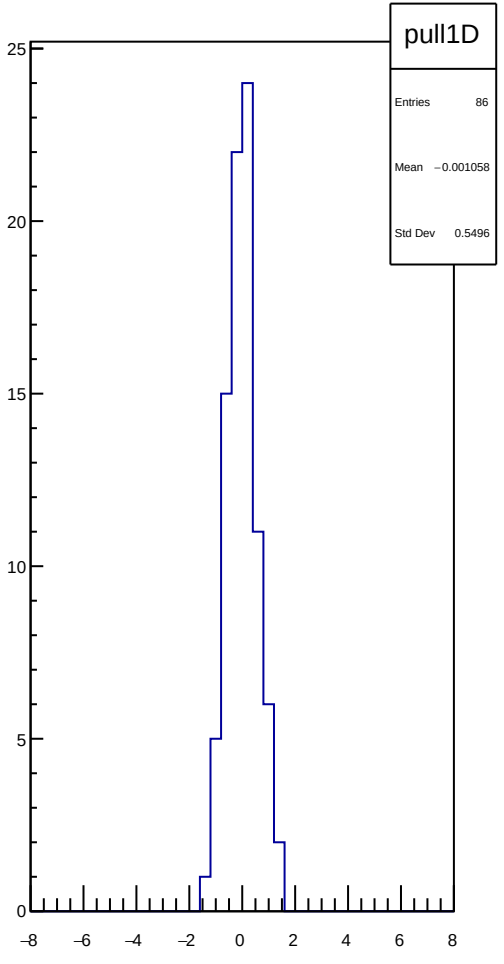

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 45.54 / 85
p0 113.8 ± 0.1517
pull
Entries 86
Mean 213.8
Std Dev 0

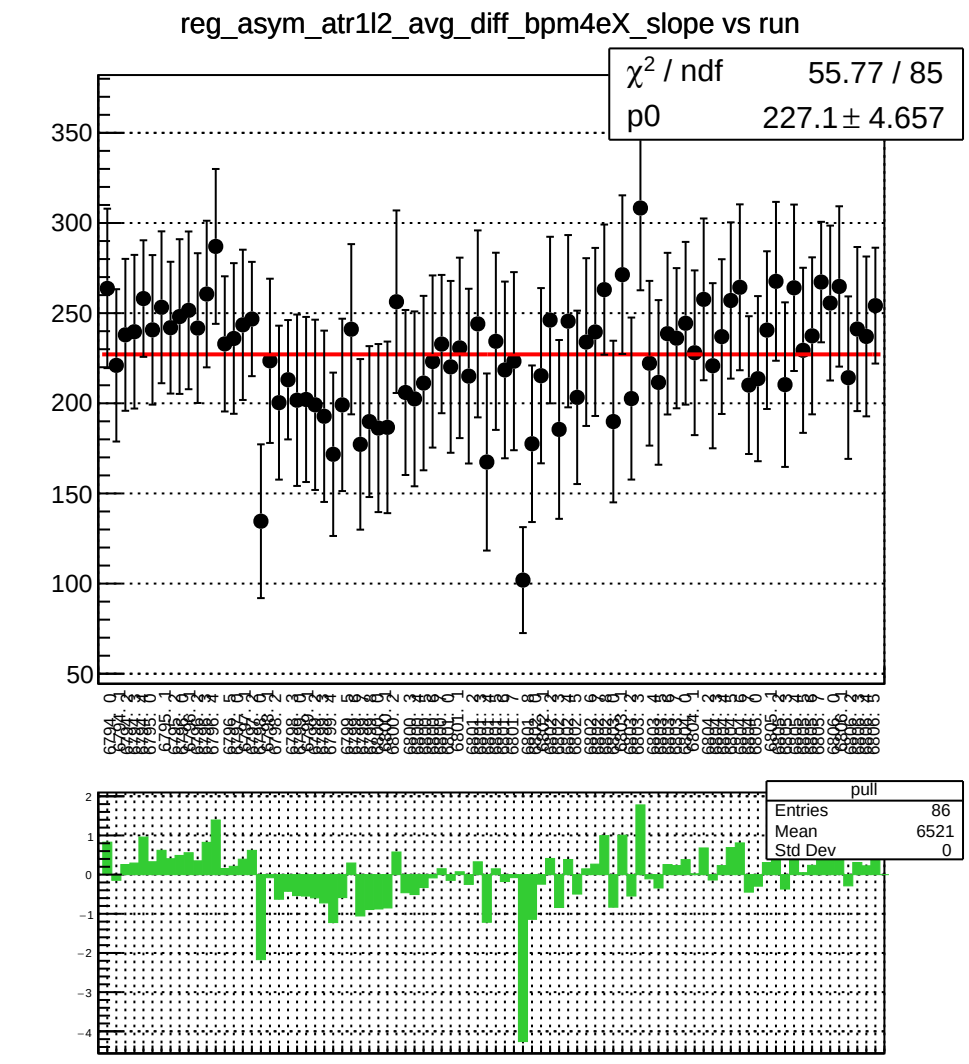

pull1D
Entries 86
Mean 0.02062
Std Dev 0.7274

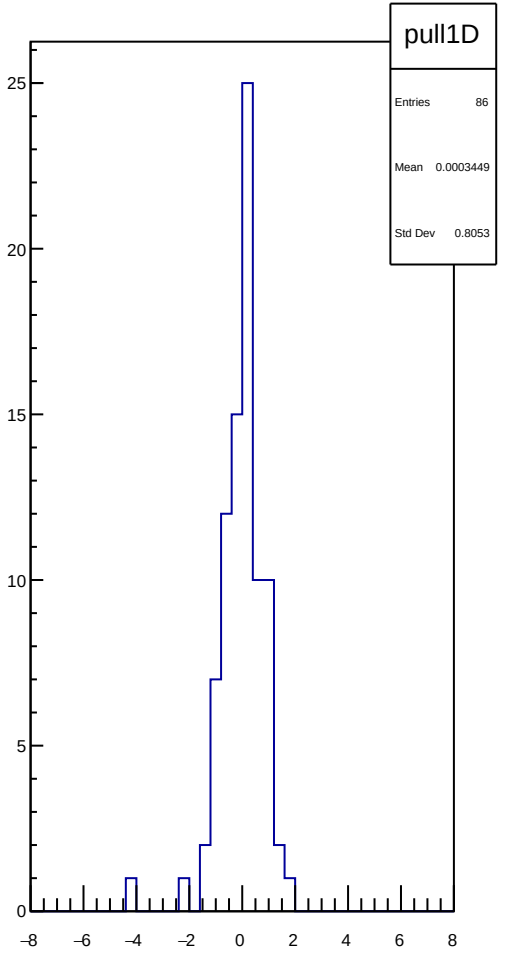

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 53.88 / 85
p0 −309.5 ± 4.976
pull
Entries 86
Mean 895.1
Std Dev 0

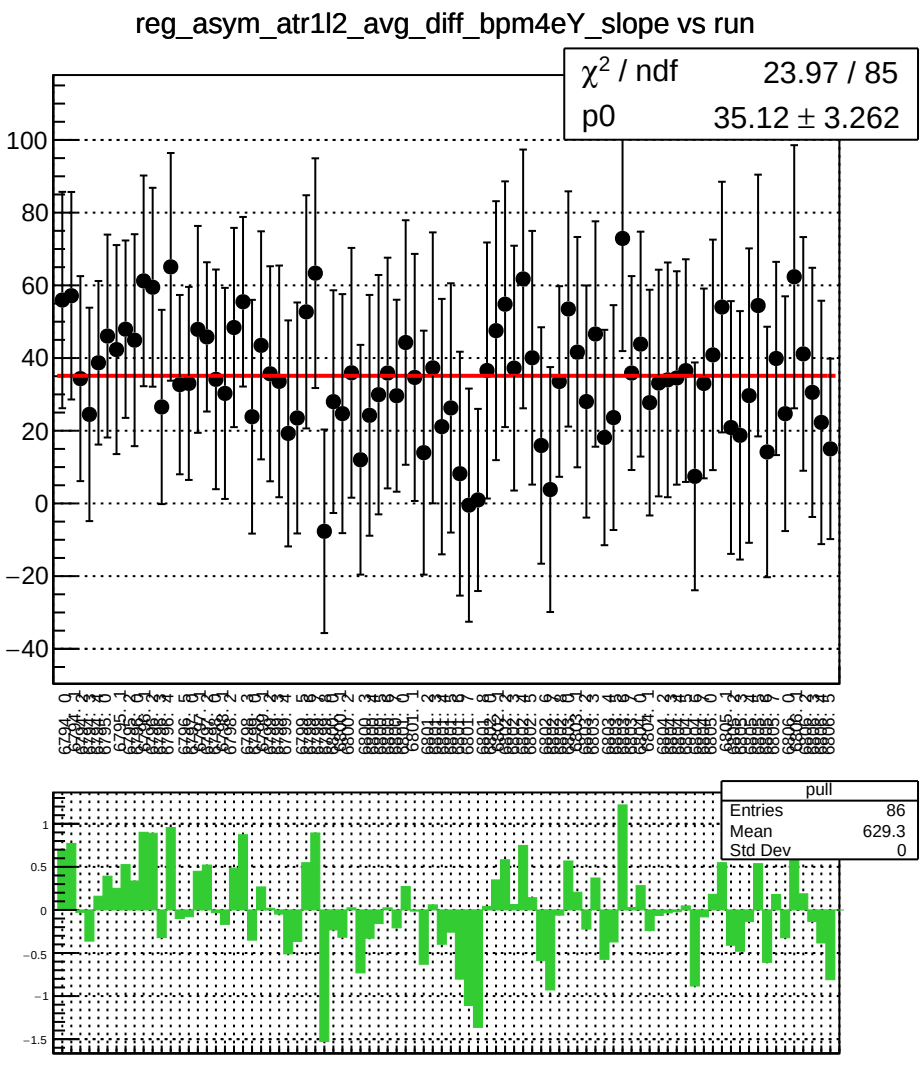

pull1D
Entries 86
Mean −0.00246
Std Dev 0.7915

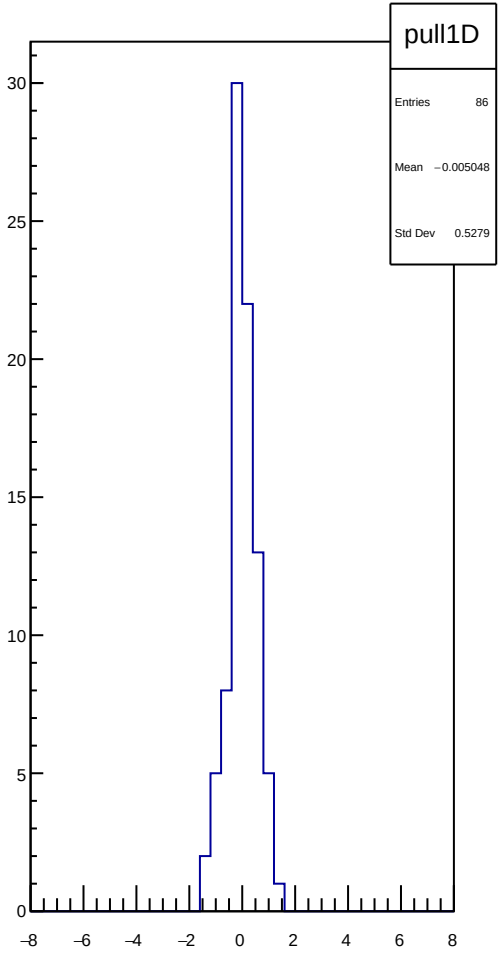

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.97 / 85
p0 22.37 ± 2.345
pull
Entries 86
Mean −2370
Std Dev 0

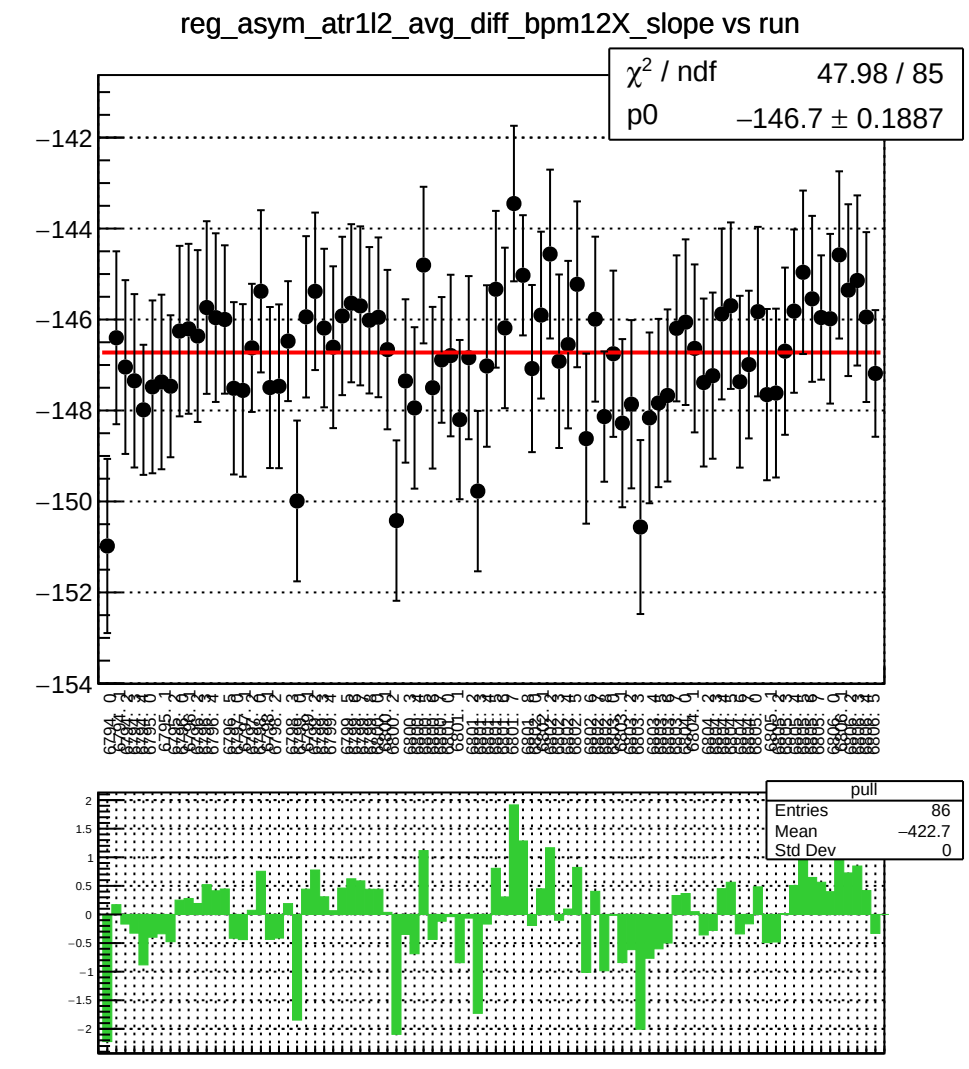

pull1D
Entries 86
Mean −0.001058
Std Dev 0.5496

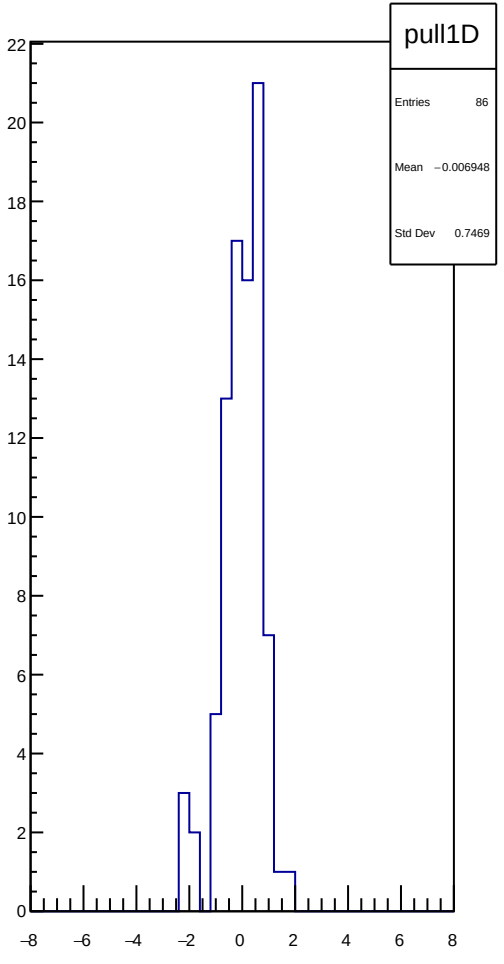

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.77 / 85
p0 227.1 ± 4.657
pull
Entries 86
Mean 6521
Std Dev 0

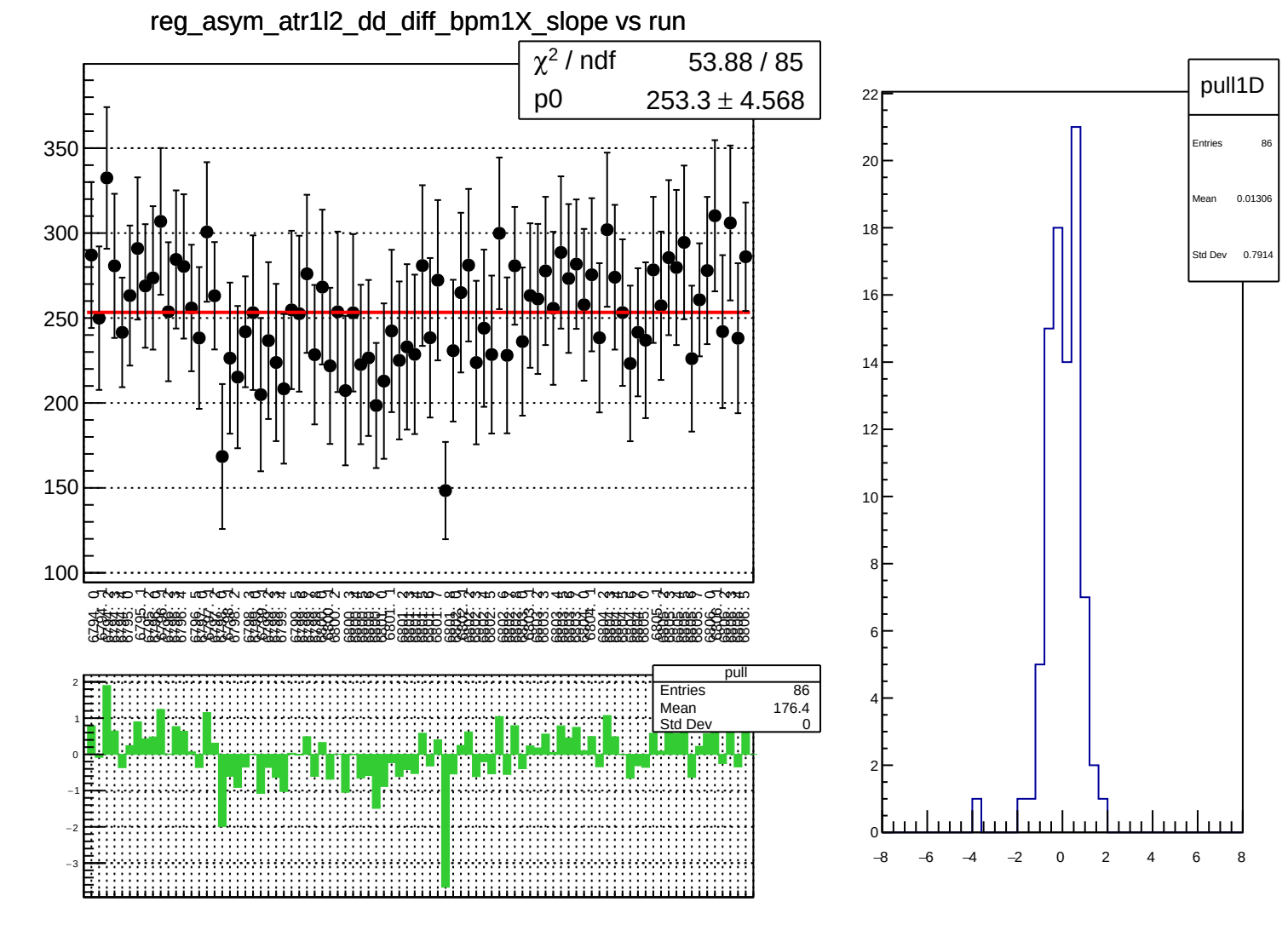

pull1D
Entries 86
Mean 0.0003449
Std Dev 0.8053

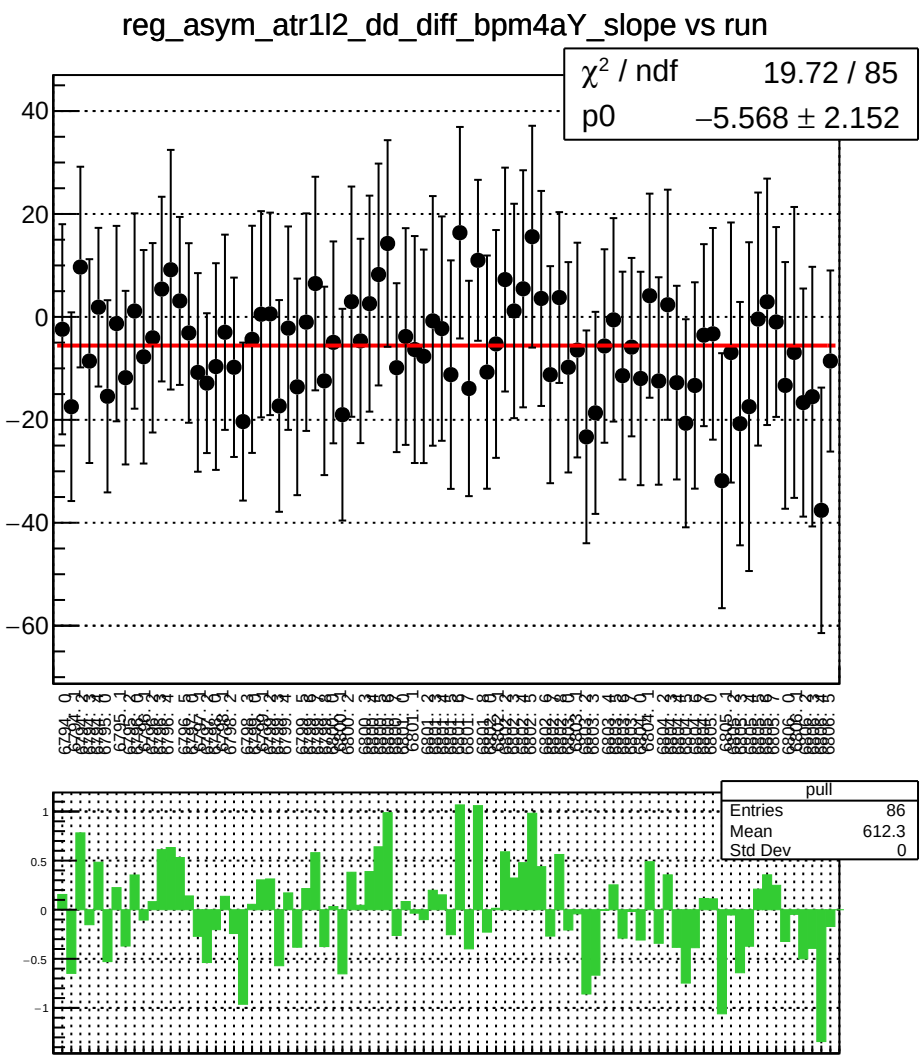

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.97 / 85
p0 35.12 ± 3.262
pull
Entries 86
Mean 629.3
Std Dev 0

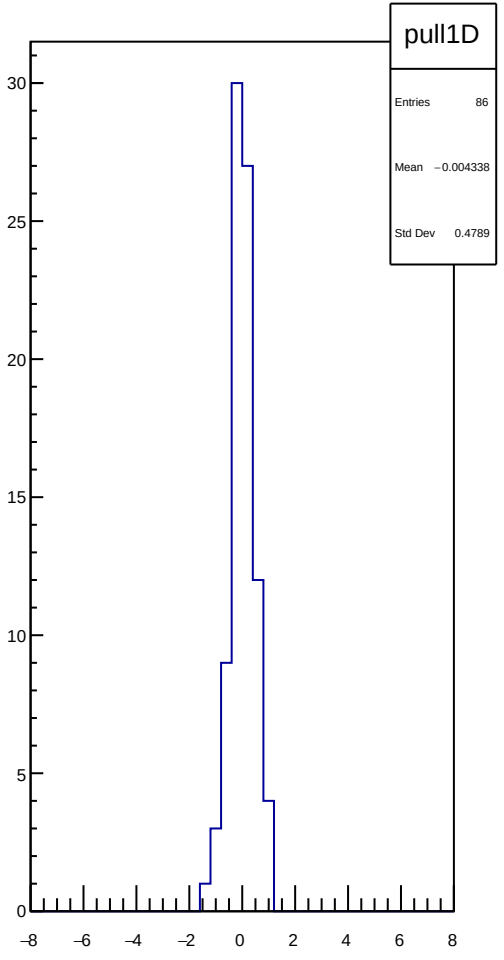

pull1D
Entries 86
Mean −0.005048
Std Dev 0.5279

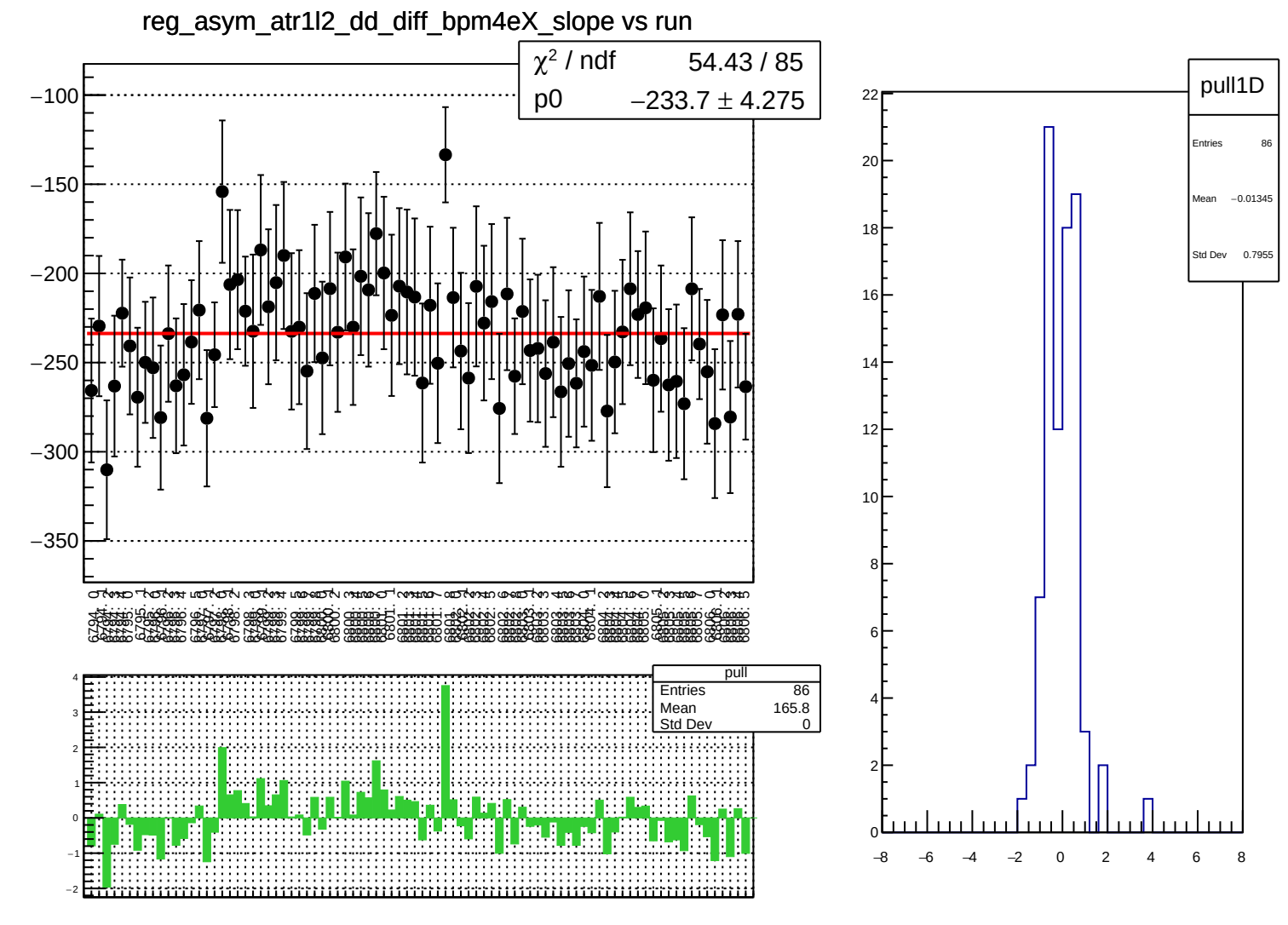

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 47.98 / 85
p0 −146.7 ± 0.1887
pull
Entries 86
Mean −422.7
Std Dev 0

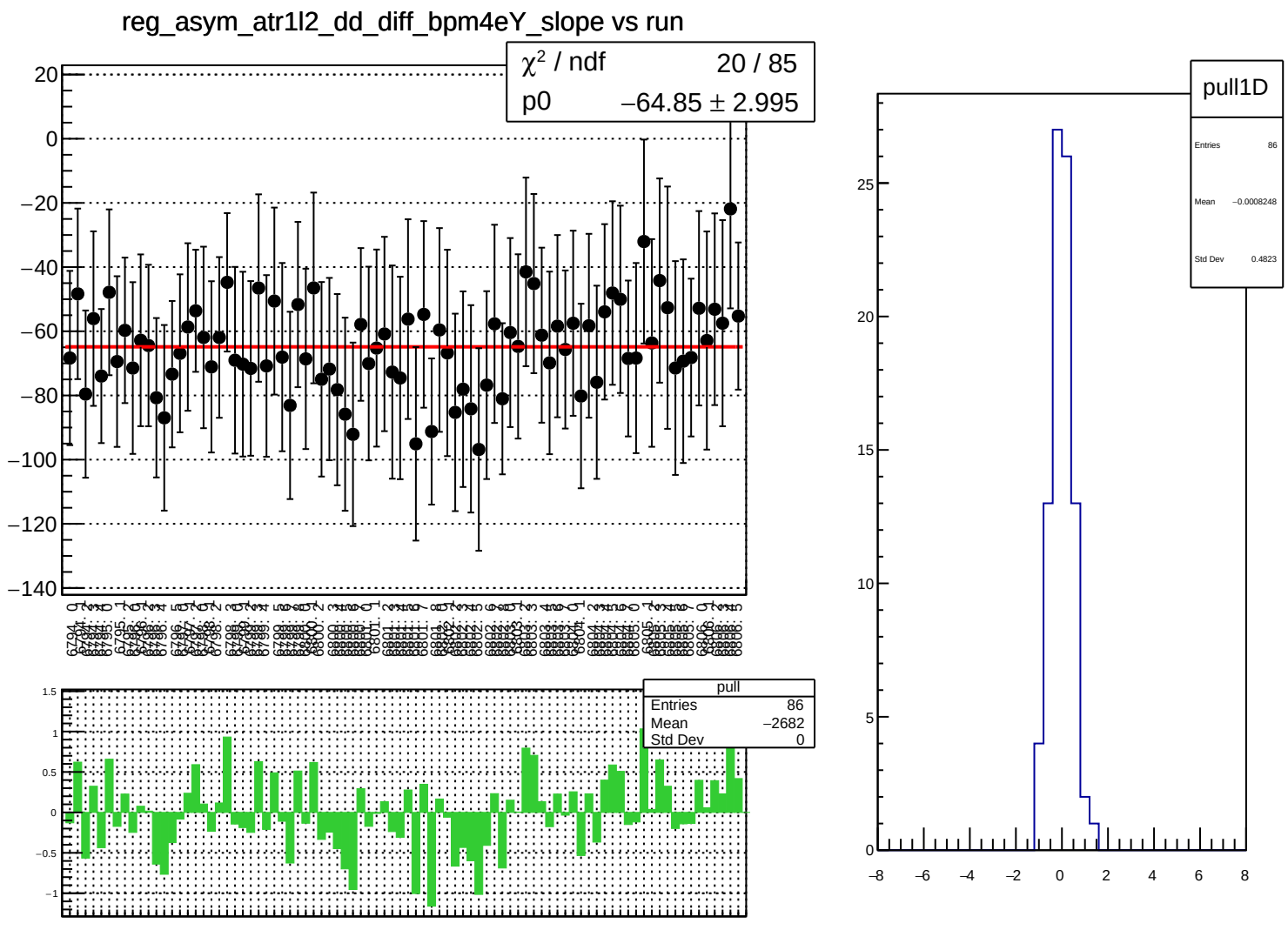

pull1D
Entries 86
Mean −0.006948
Std Dev 0.7469

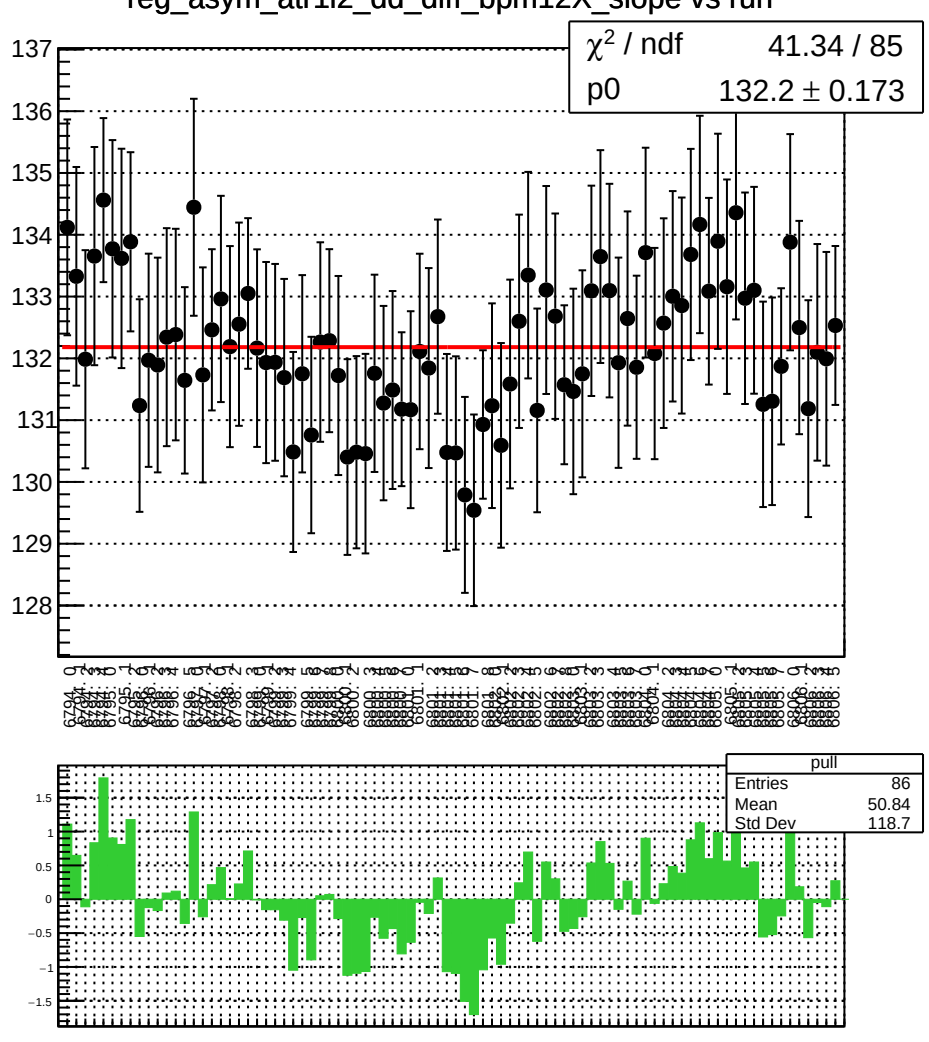

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 53.88 / 85
p0 253.3 ± 4.568
pull
Entries 86
Mean 176.4
Std Dev 0
pull1D
Entries 86
Mean 0.01306
Std Dev 0.7914

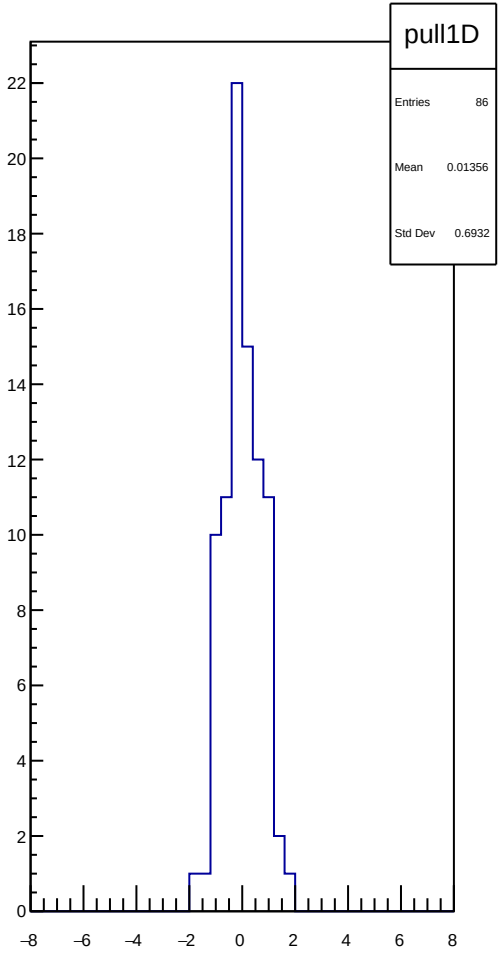

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.72 / 85
p0 −5.568 ± 2.152
pull
Entries 86
Mean 612.3
Std Dev 0

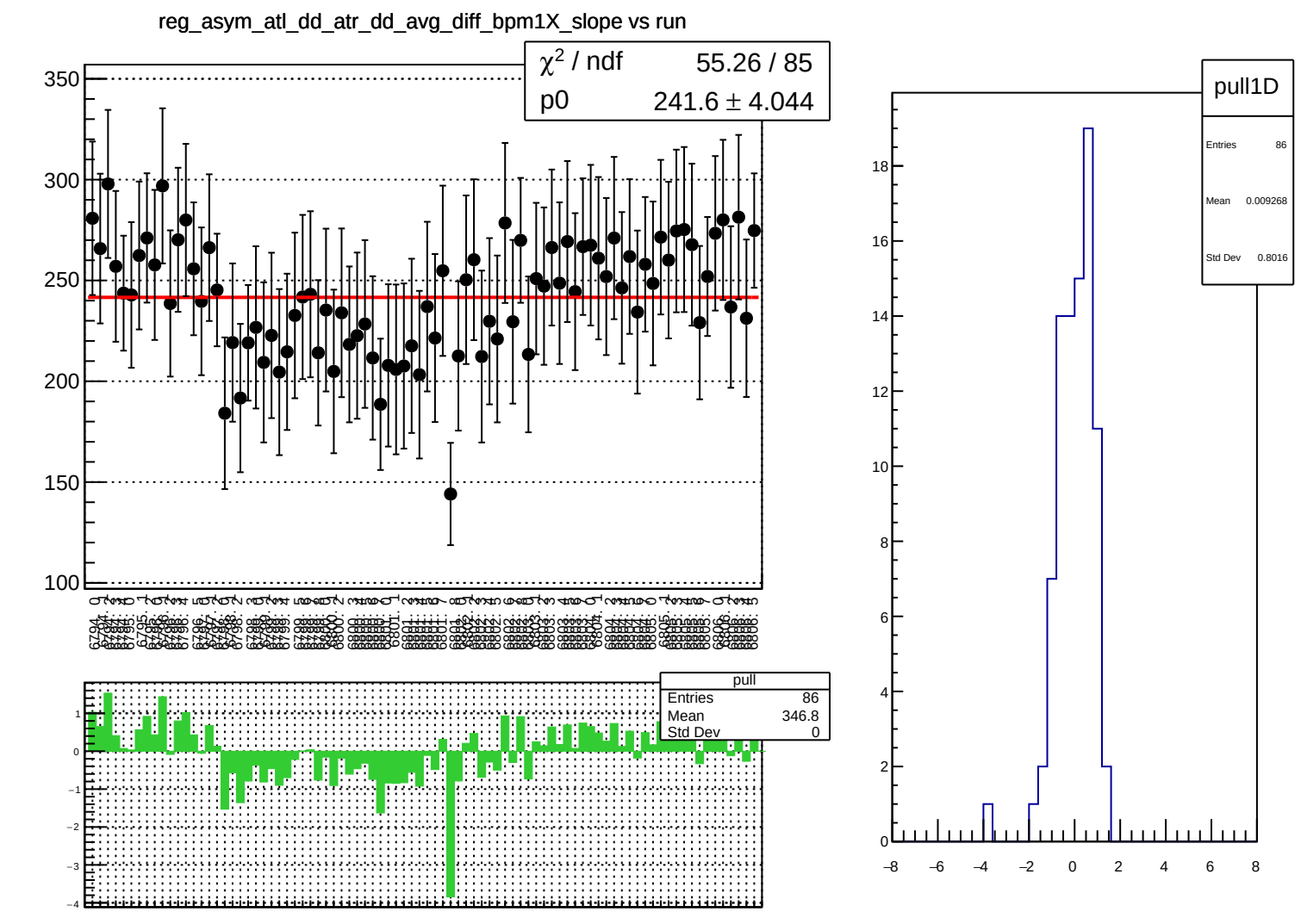

pull1D
Entries 86
Mean −0.004338
Std Dev 0.4789

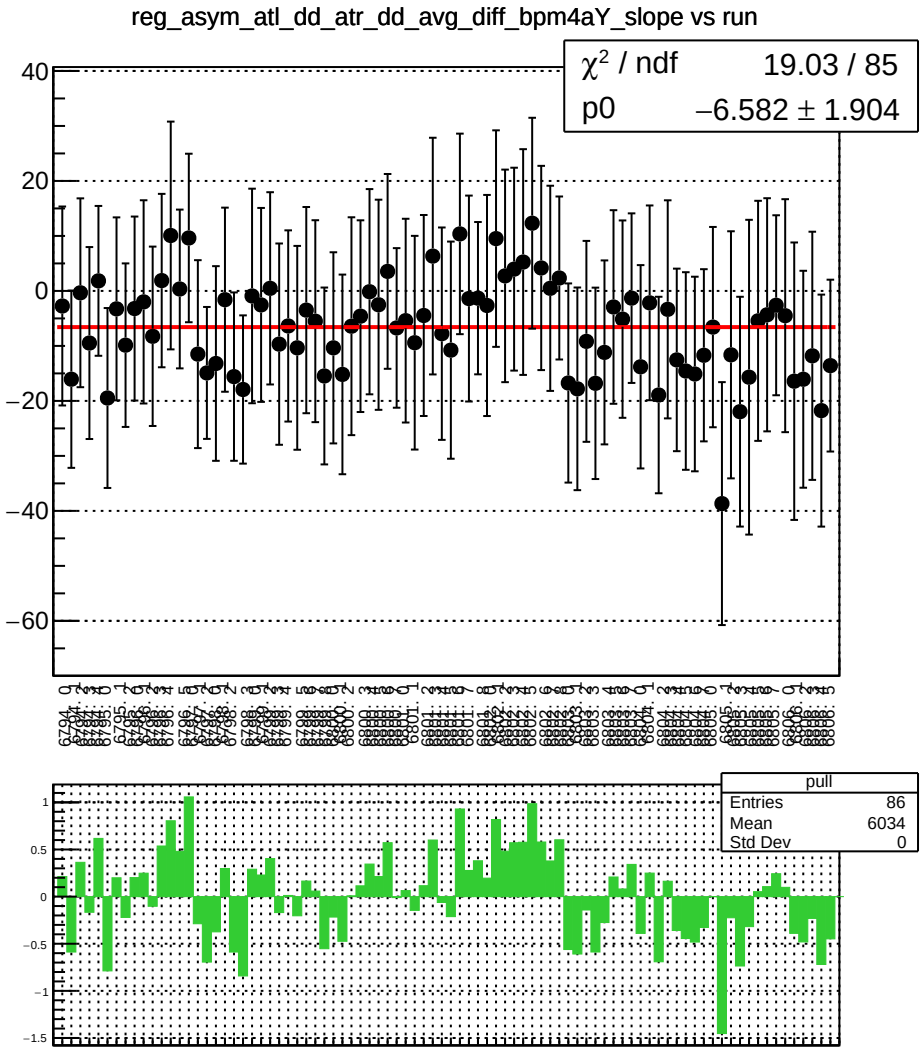

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.43 / 85
p0 −233.7 ± 4.275
pull
Entries 86
Mean 165.8
Std Dev 0
pull1D
Entries 86
Mean −0.01345
Std Dev 0.7955

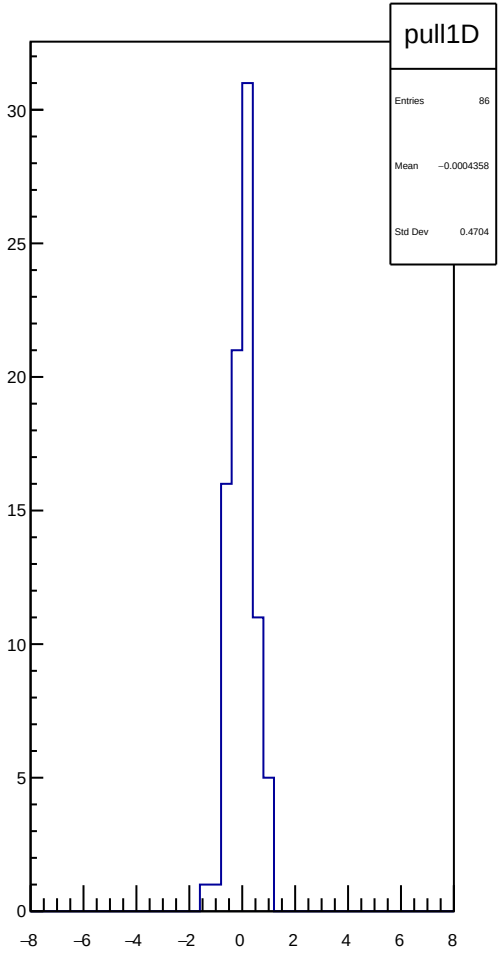

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 20 / 85
p0 −64.85 ± 2.995
pull
Entries 86
Mean −2682
Std Dev 0
pull1D
Entries 86
Mean −0.0008248
Std Dev 0.4823

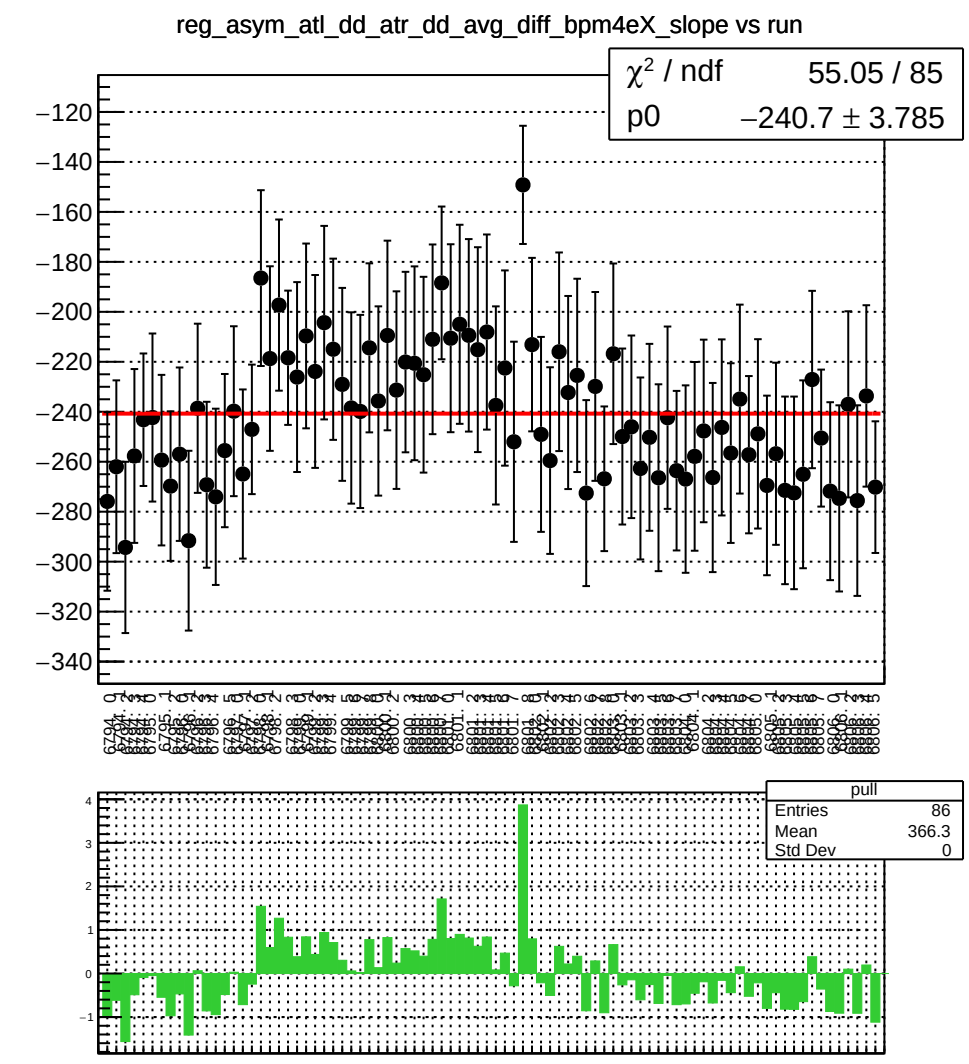

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 41.34 / 85
p0 132.2 ± 0.173
pull
Entries 86
Mean 50.84
Std Dev 118.7

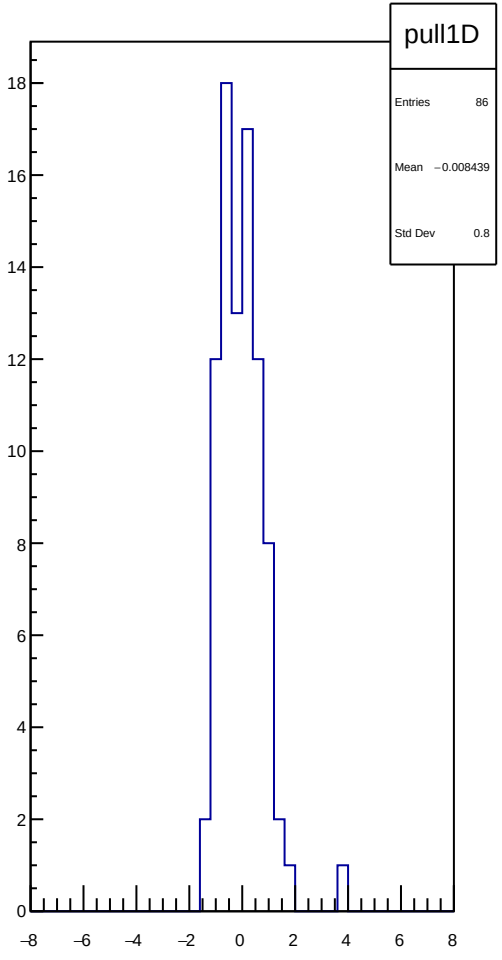

pull1D
Entries 86
Mean 0.01356
Std Dev 0.6932

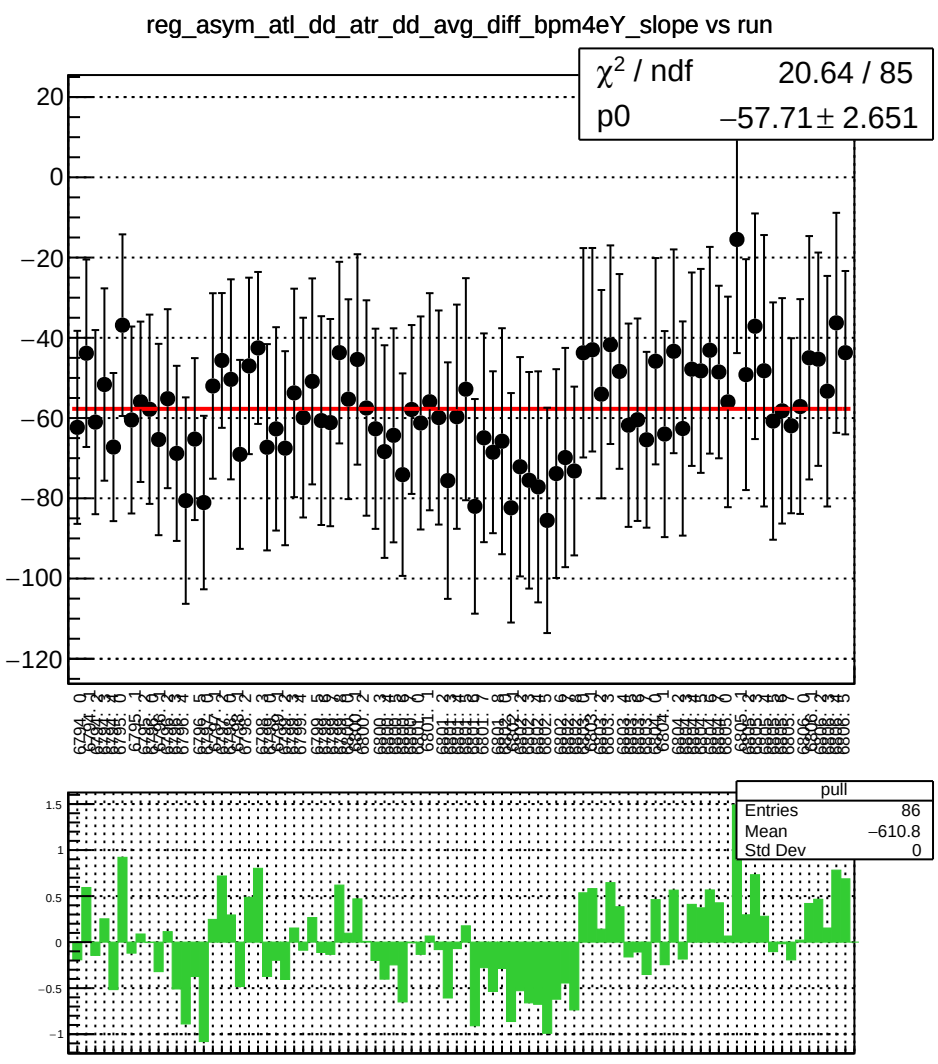

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 55.26 / 85
p0 241.6 ± 4.044
350
300
250
200
150
100
pull
Entries 86
Mean 346.8
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.009268
Std Dev 0.8016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

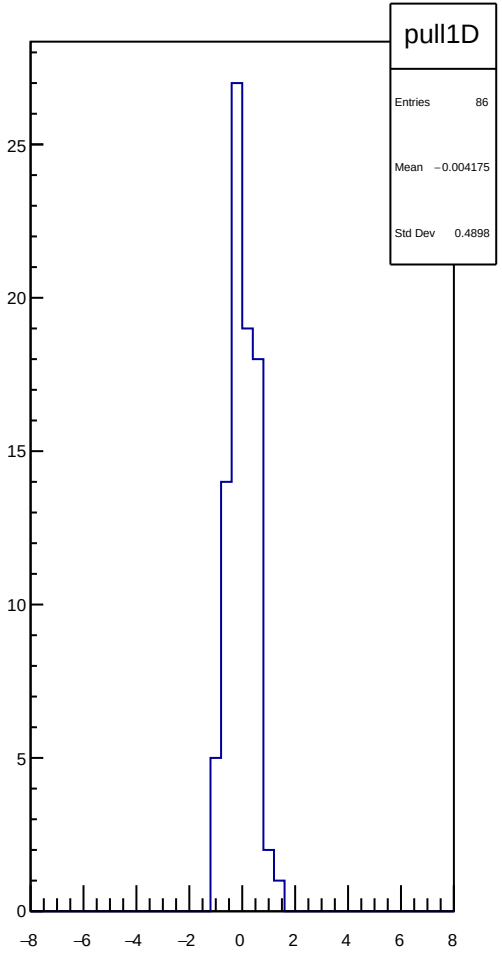

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.03 / 85
p0 −6.582 ± 1.904
pull
Entries 86
Mean 6034
Std Dev 0

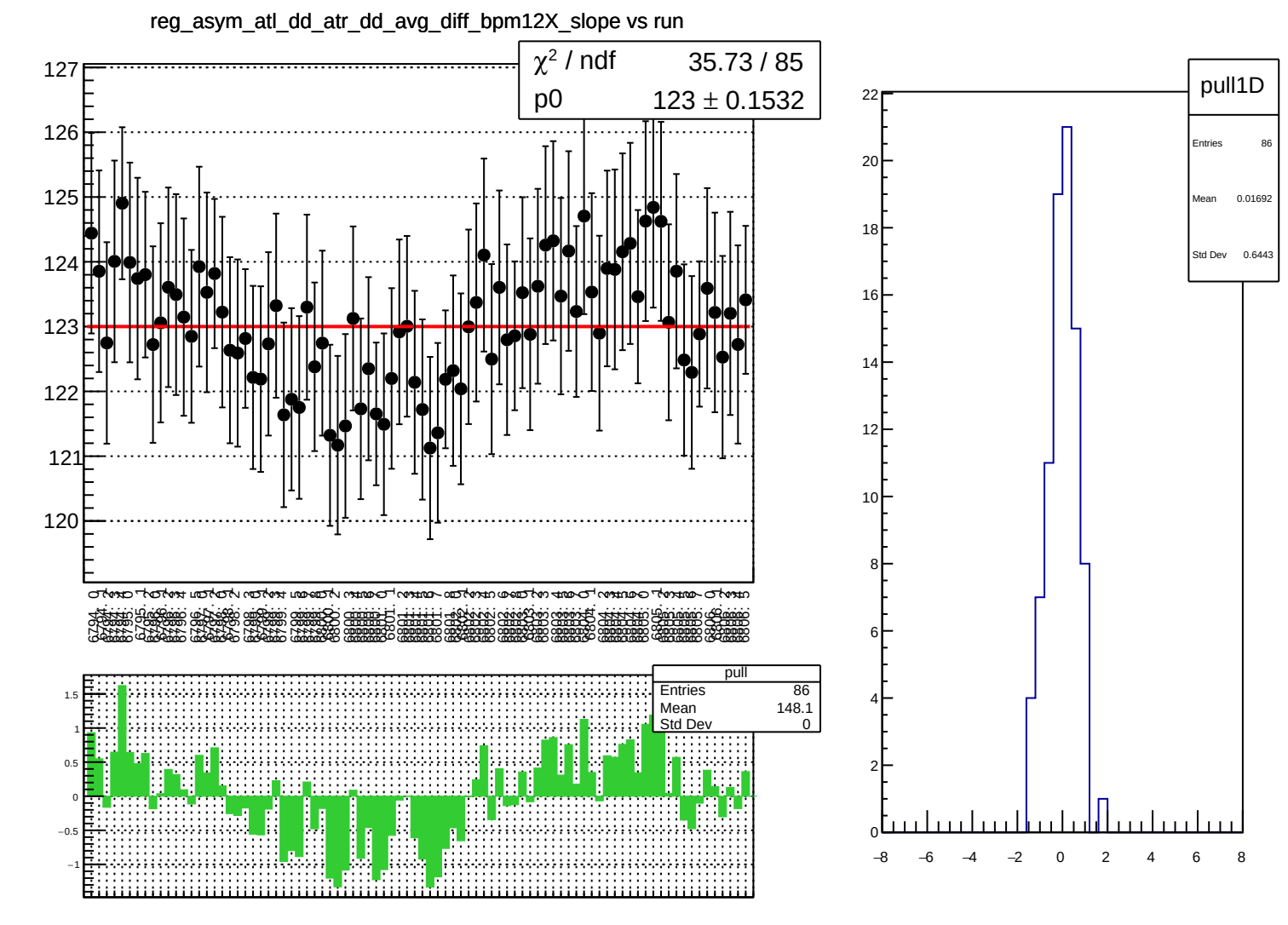

pull1D
Entries 86
Mean −0.0004358
Std Dev 0.4704

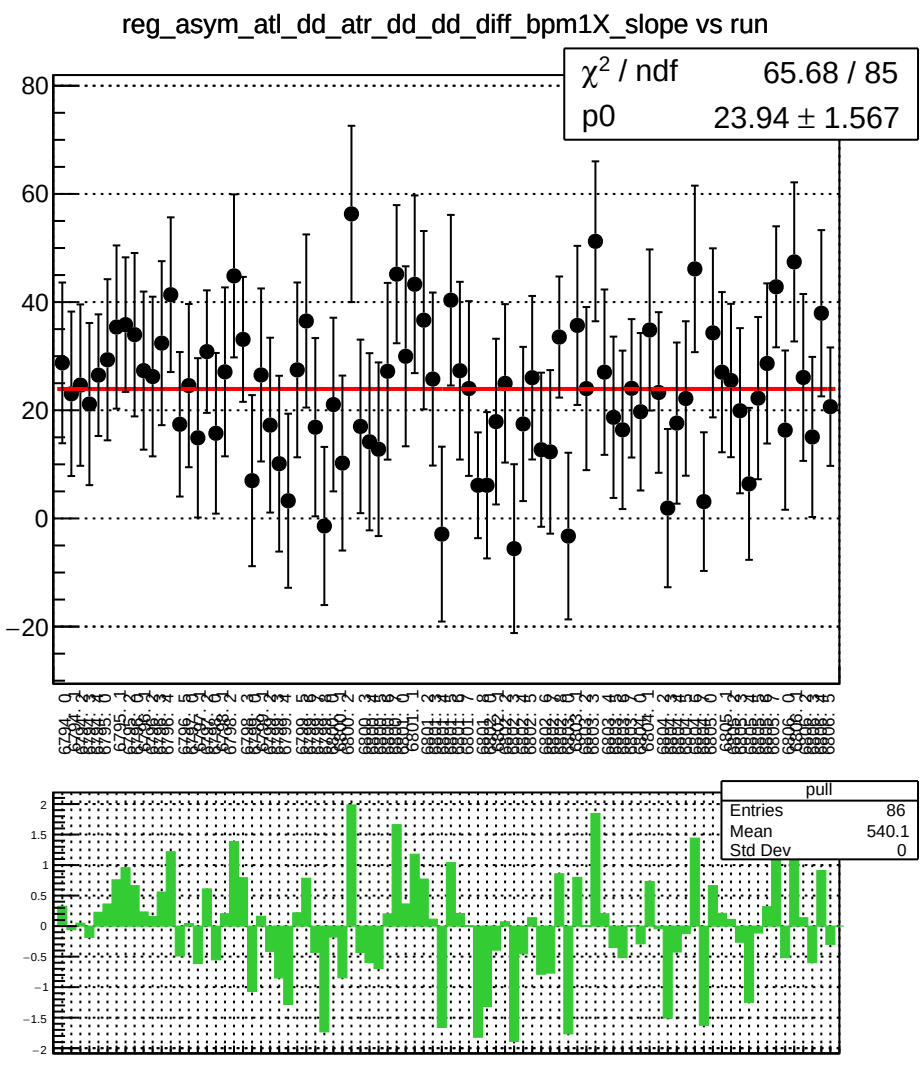

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 55.05 / 85
p0 −240.7 ± 3.785
pull
Entries 86
Mean 366.3
Std Dev 0

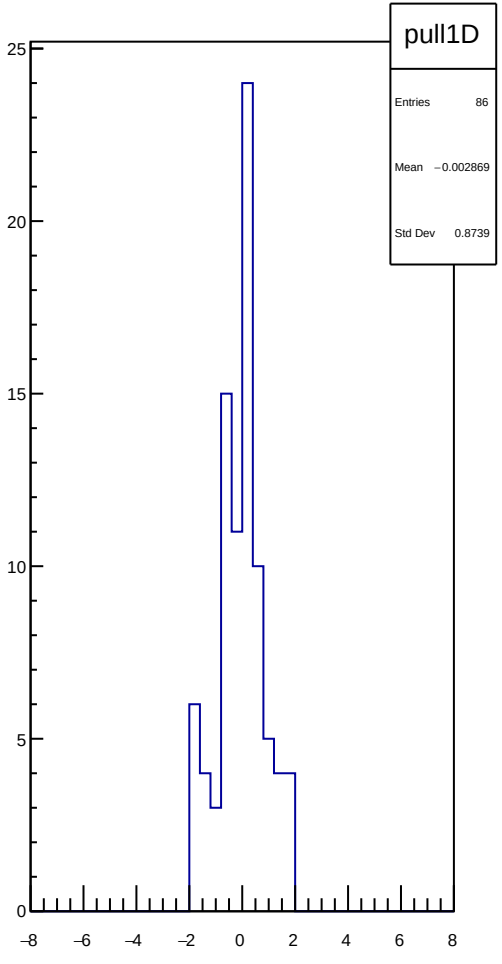

pull1D
Entries 86
Mean −0.008439
Std Dev 0.8

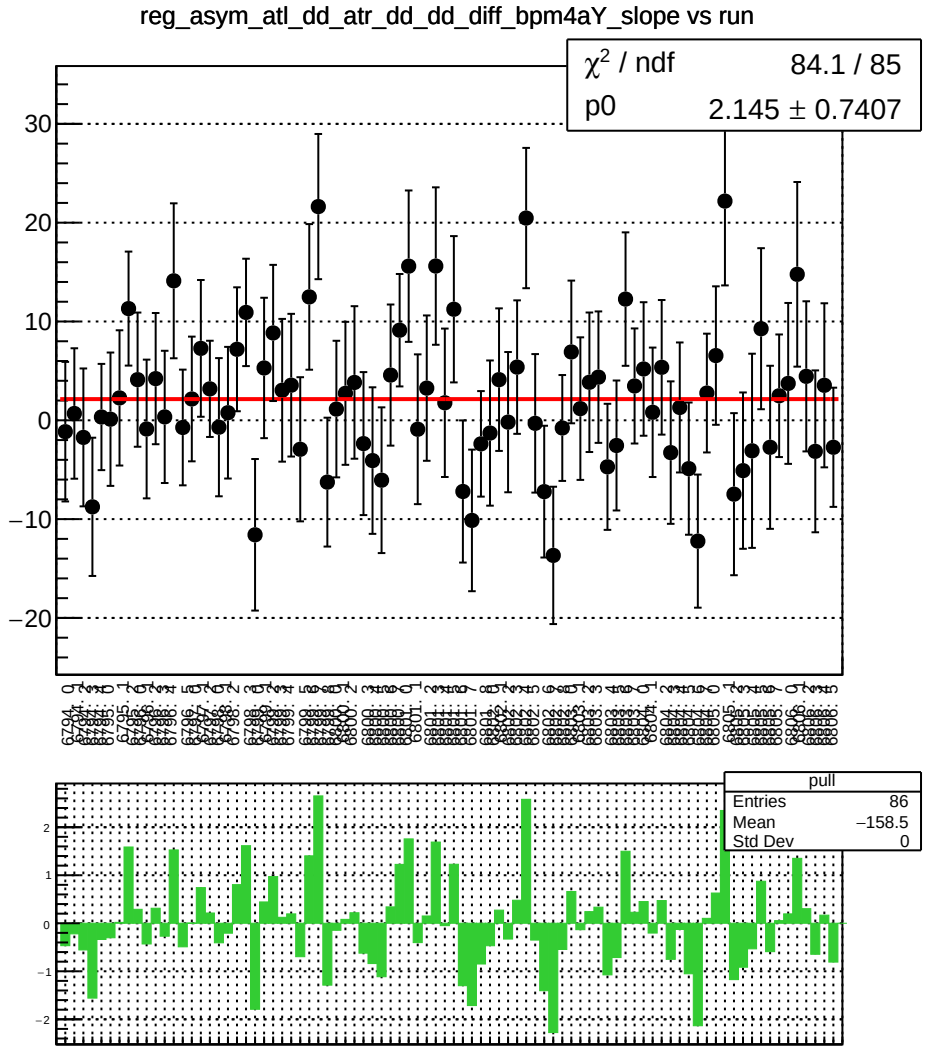

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 20.64 / 85
p0 −57.71 ± 2.651
pull
Entries 86
Mean −610.8
Std Dev 0

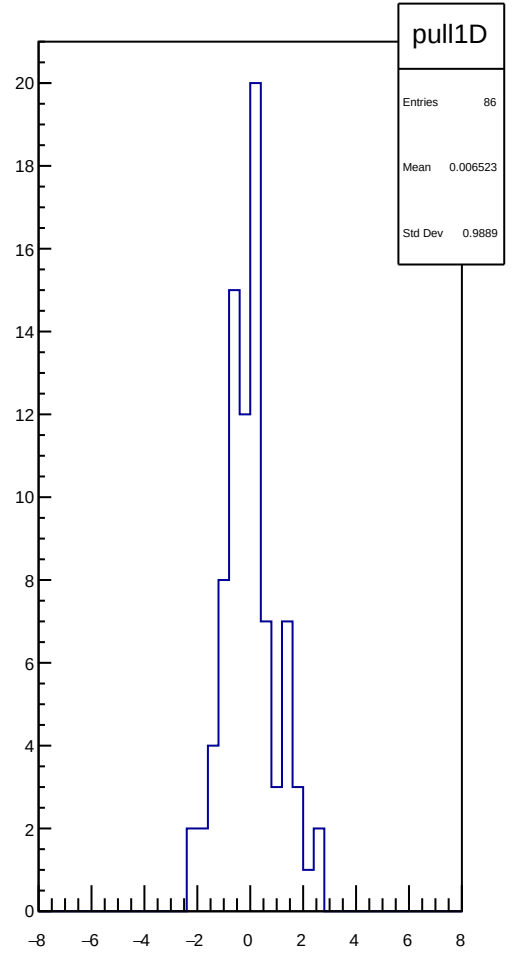

pull1D
Entries 86
Mean −0.004175
Std Dev 0.4898

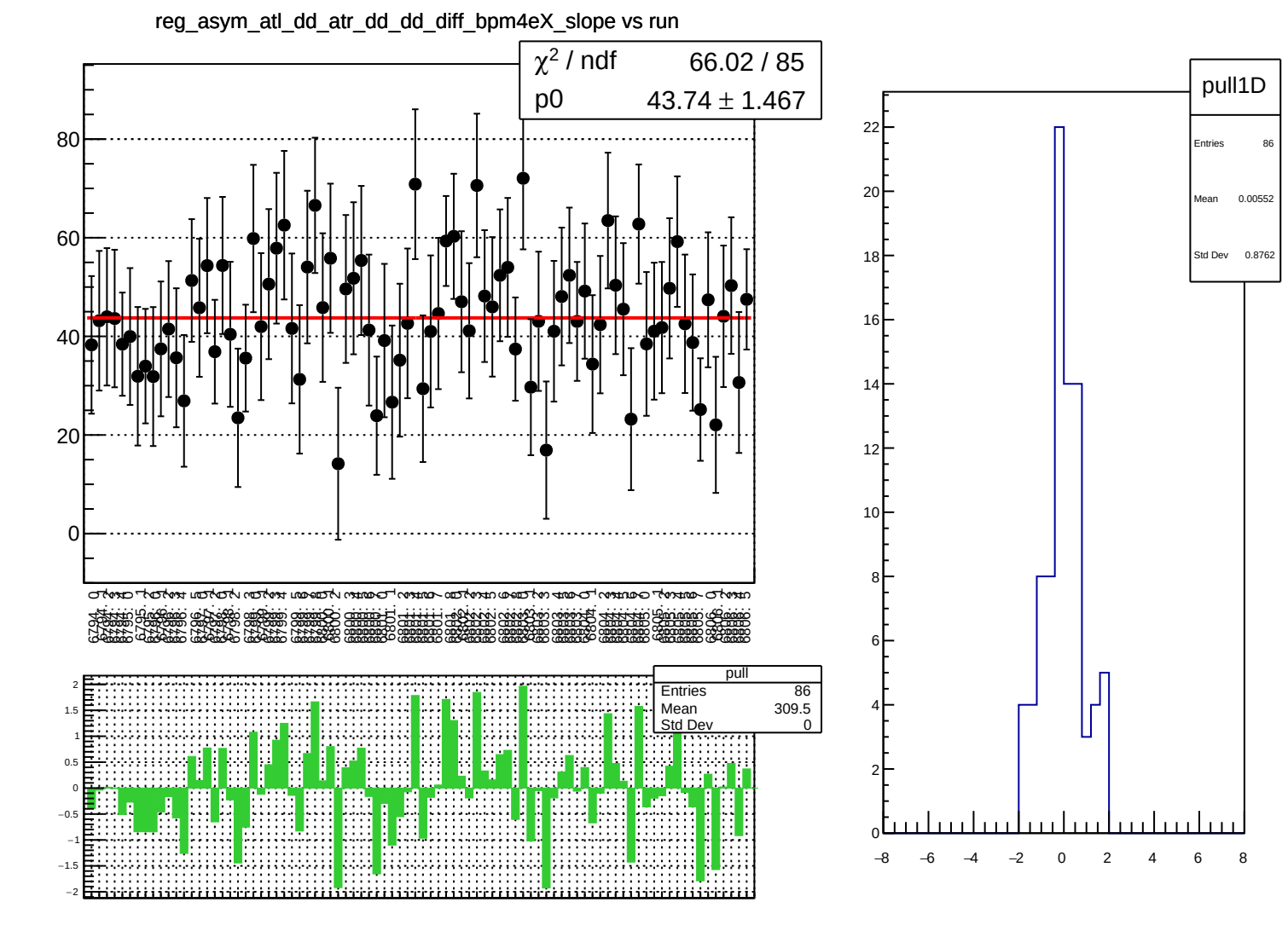

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 35.73 / 85
p0 123 ± 0.1532
pull
Entries 86
Mean 148.1
Std Dev 0
pull1D
Entries 86
Mean 0.01692
Std Dev 0.6443

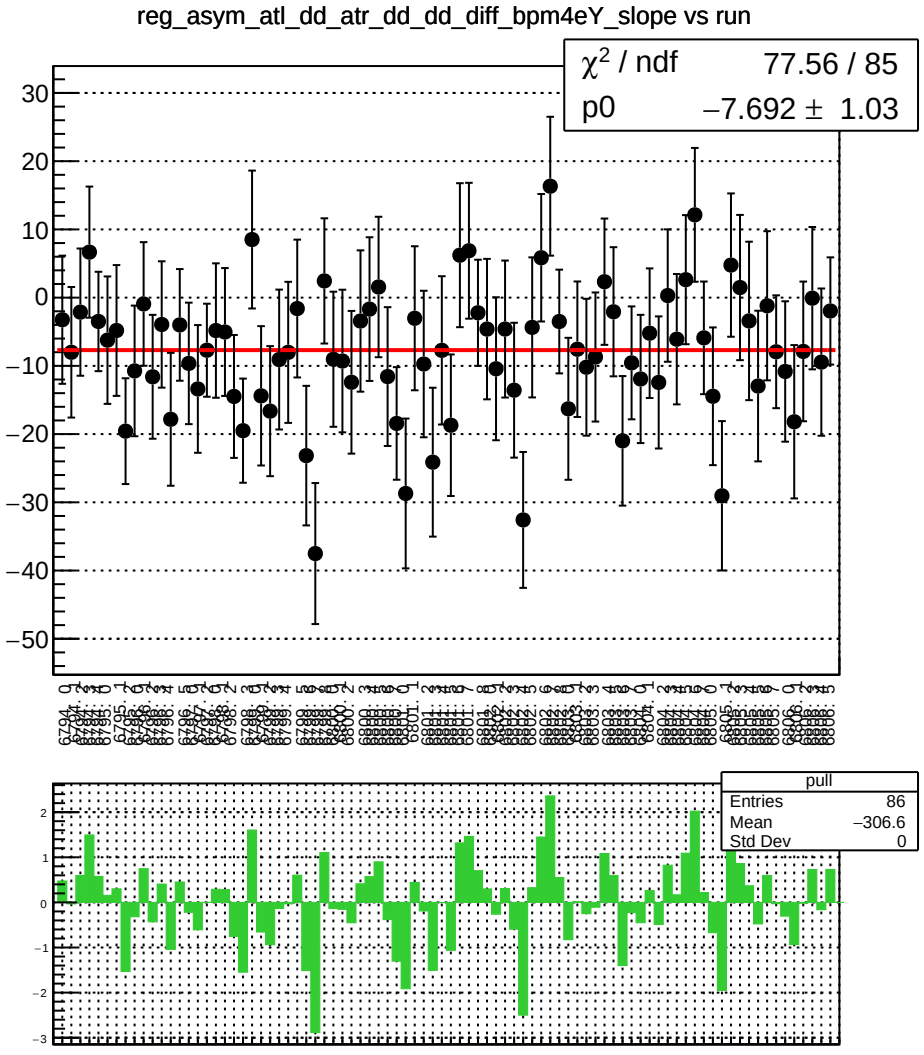

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 65.68 / 85
p0 23.94 ± 1.567
pull
Entries 86
Mean 540.1
Std Dev 0

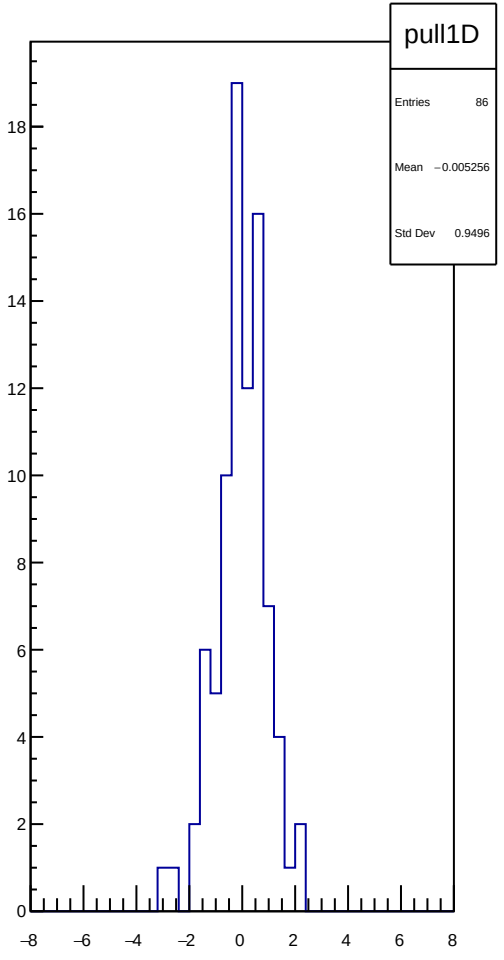

pull1D
Entries 86
Mean −0.002869
Std Dev 0.8739

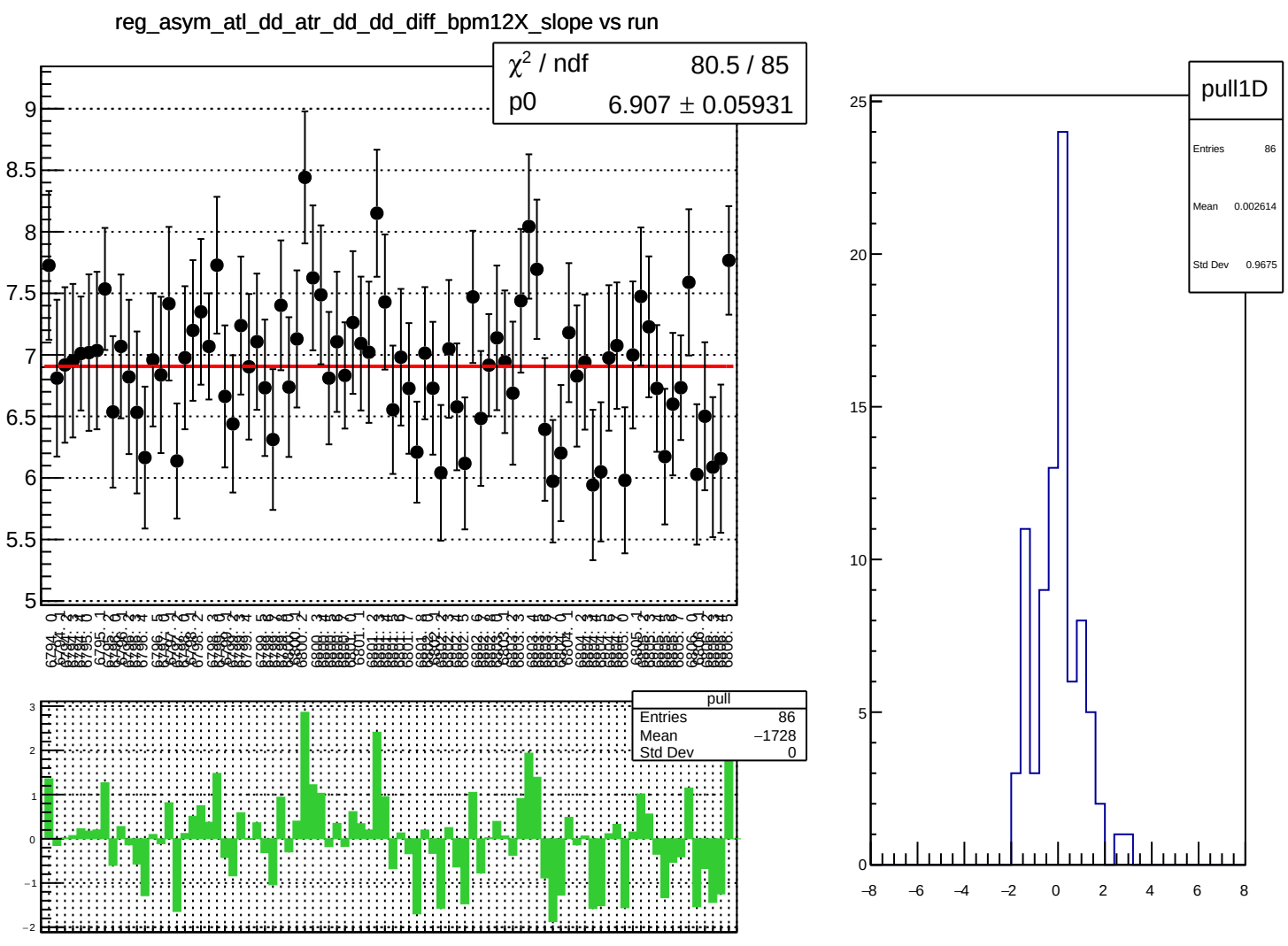

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.1 / 85
p0 2.145 ± 0.7407
pull
Entries 86
Mean −158.5
Std Dev 0

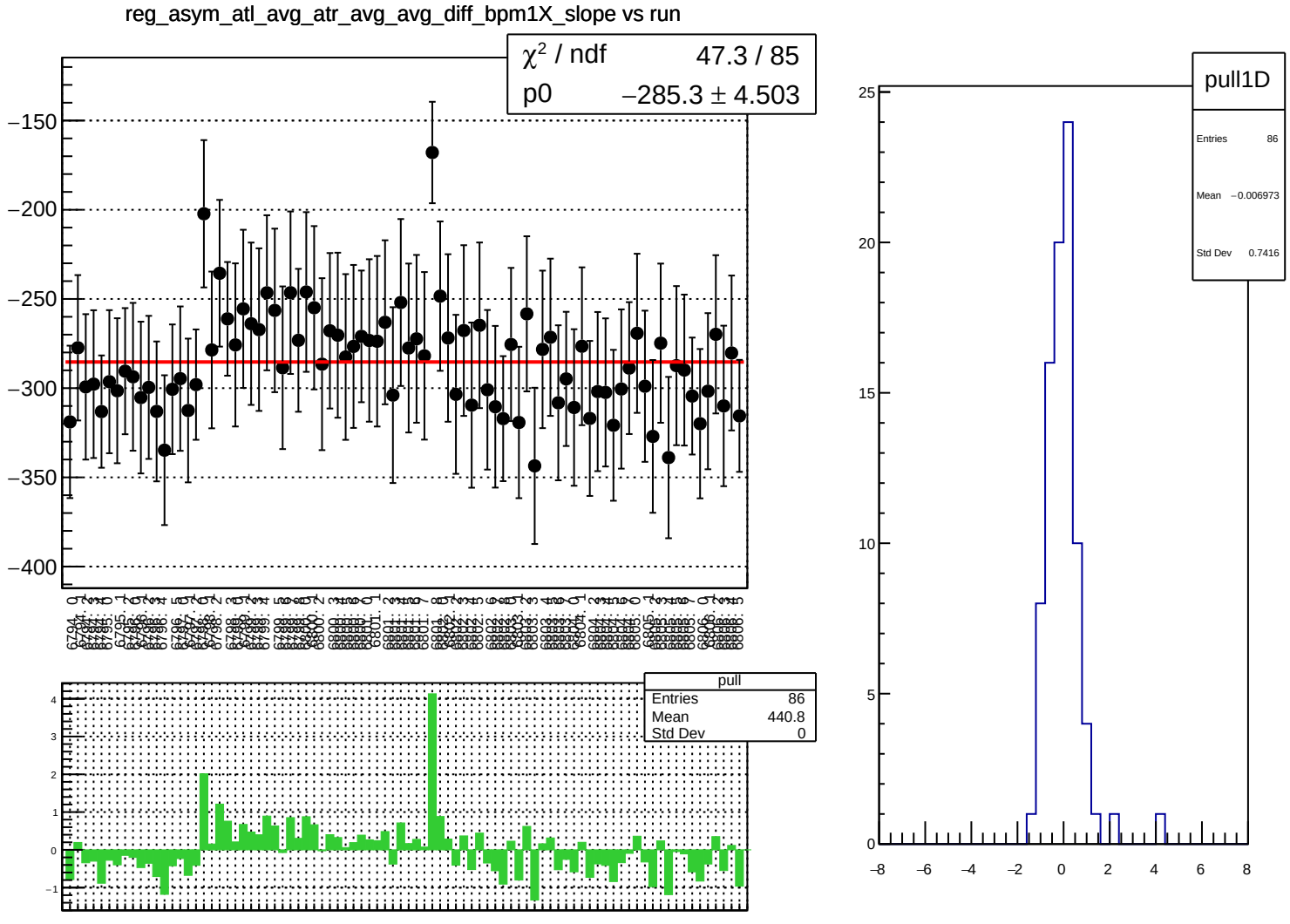

pull1D
Entries 86
Mean 0.006523
Std Dev 0.9889

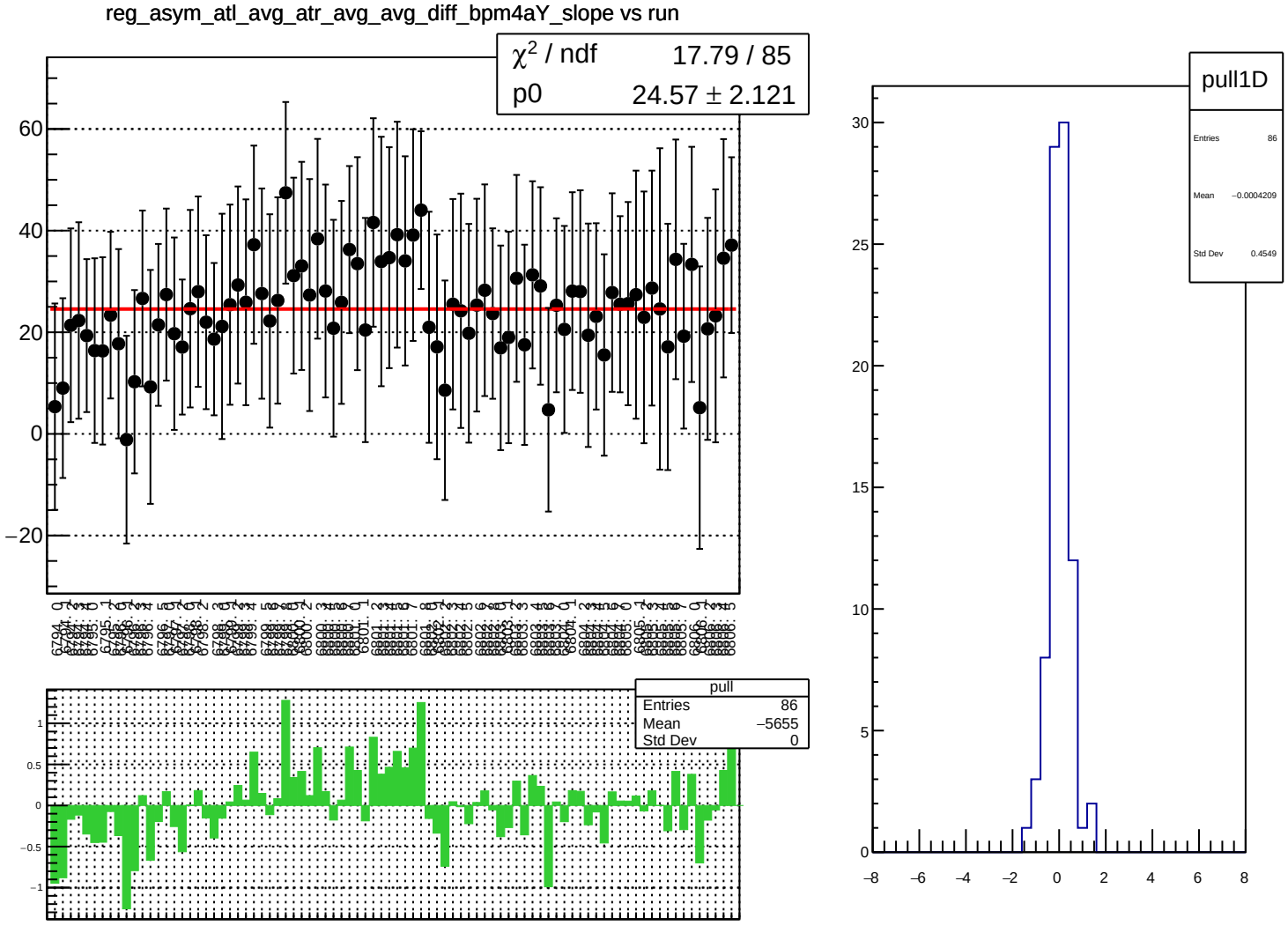

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.02 / 85
p0 43.74 ± 1.467
pull
Entries 86
Mean 309.5
Std Dev 0
pull1D
Entries 86
Mean 0.00552
Std Dev 0.8762

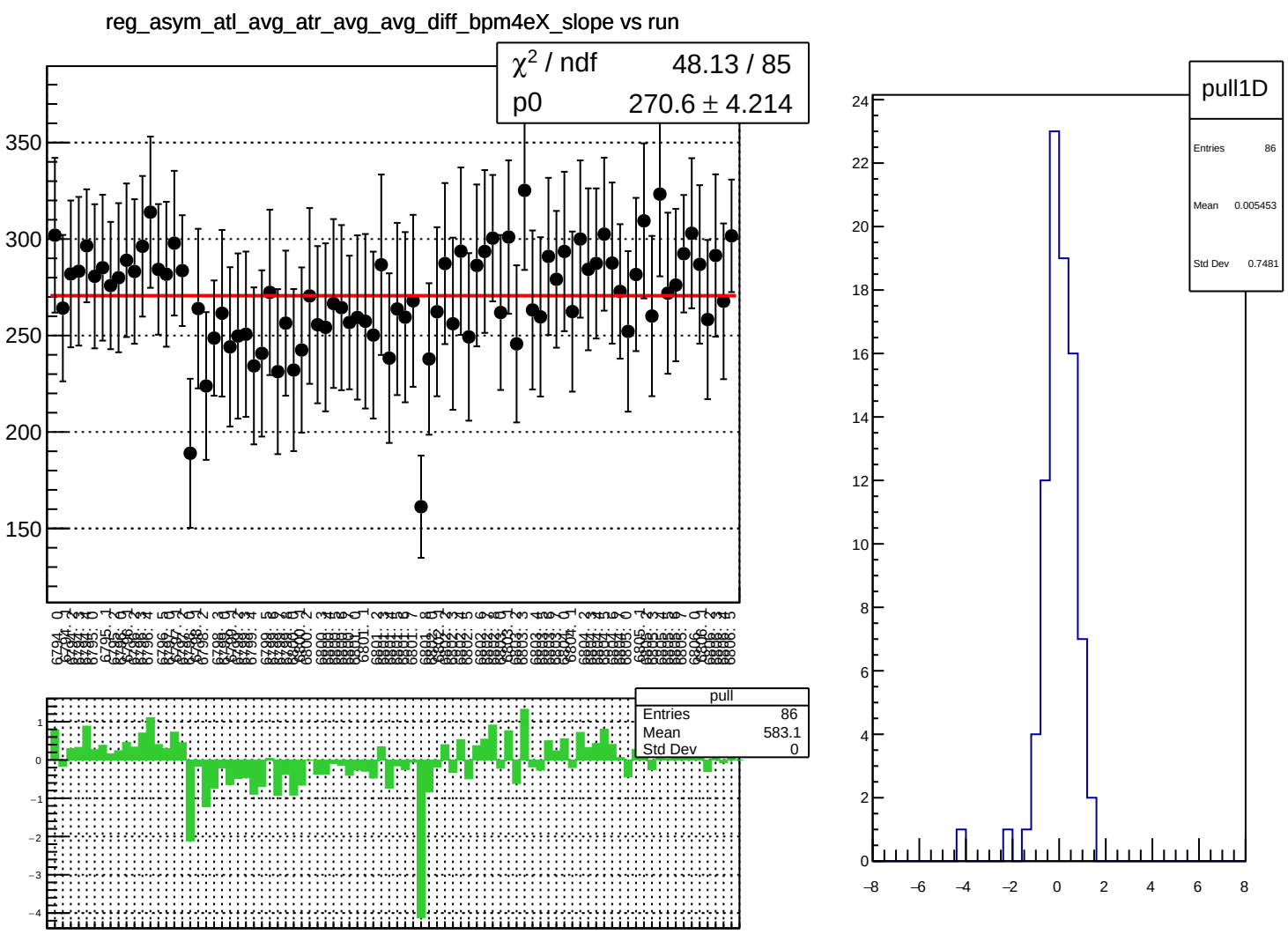

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.56 / 85
p0 −7.692 ± 1.03
pull
Entries 86
Mean −306.6
Std Dev 0

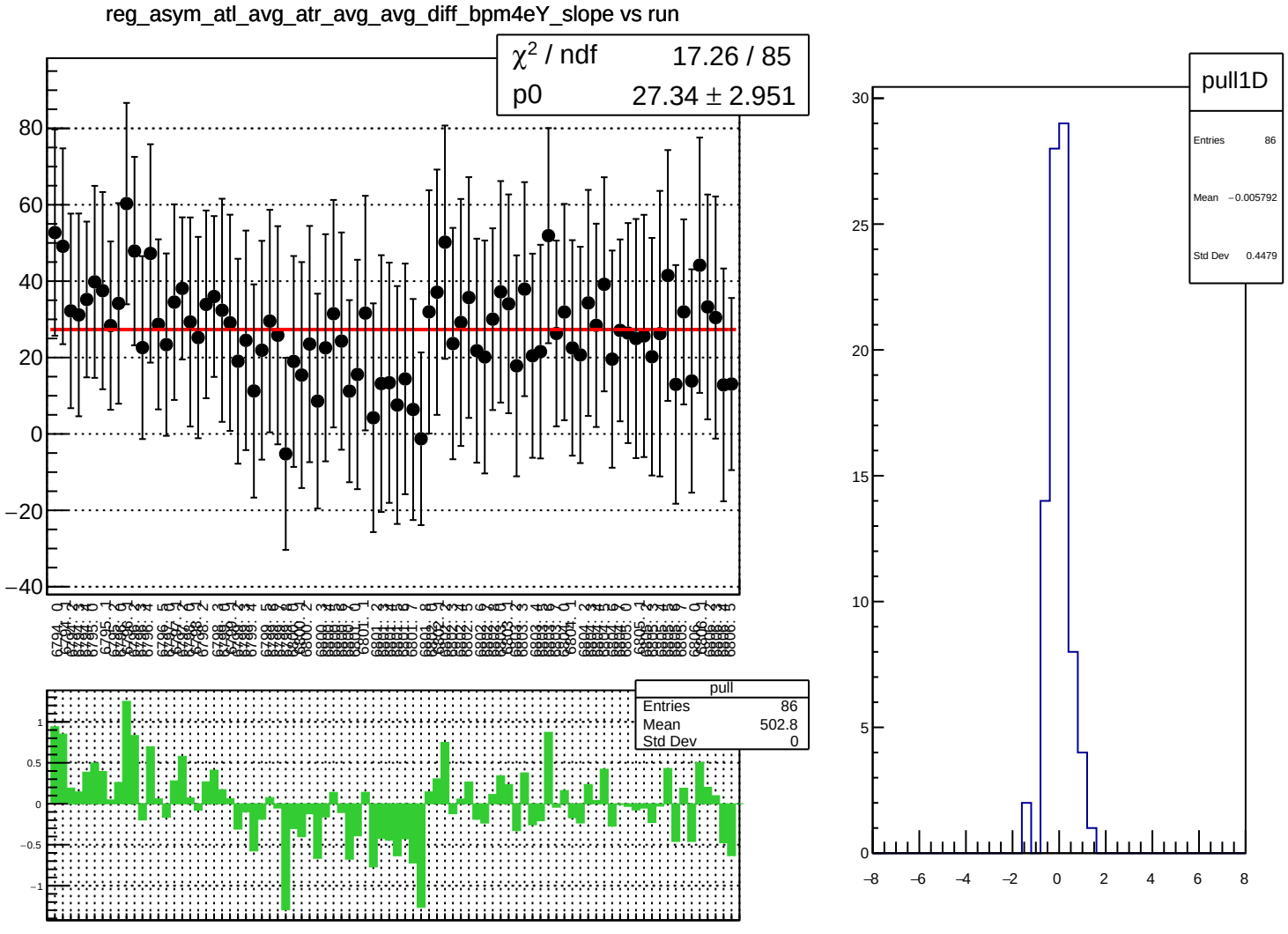

pull1D
Entries 86
Mean −0.005256
Std Dev 0.9496

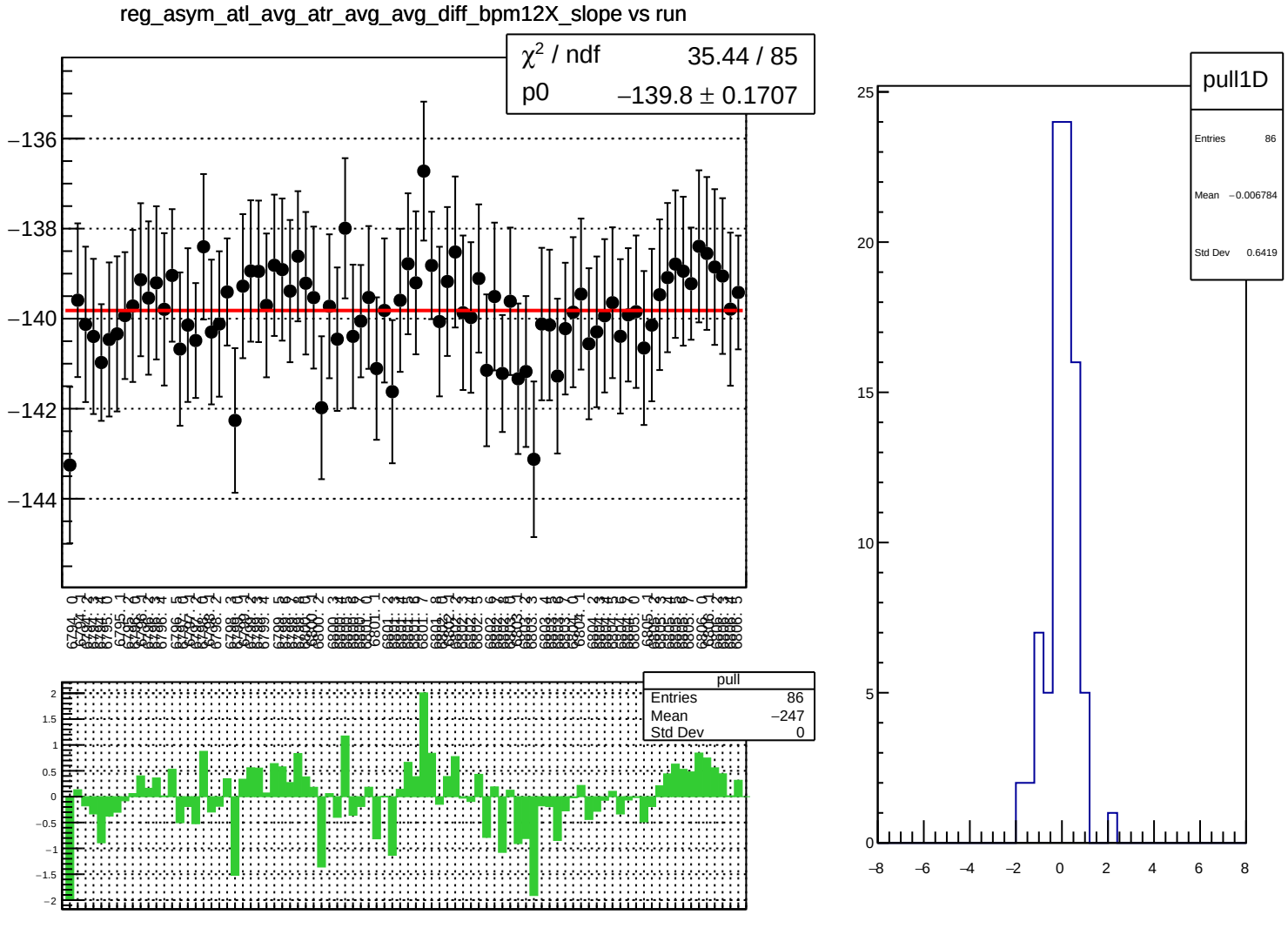

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 80.5 / 85
p0 6.907 ± 0.05931
pull
Entries 86
Mean −1728
Std Dev 0
pull1D
Entries 86
Mean 0.002614
Std Dev 0.9675

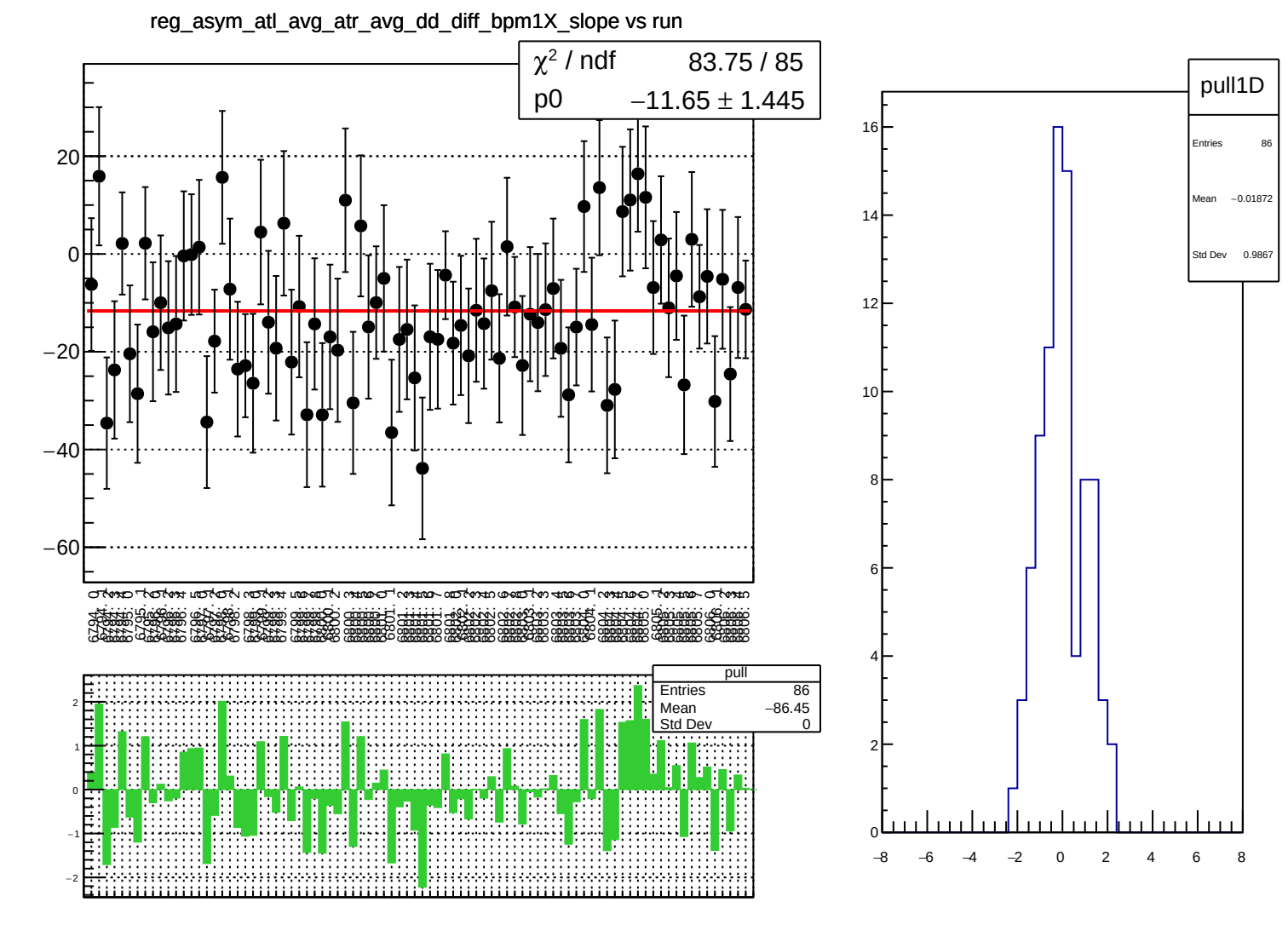

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 47.3 / 85
p0 −285.3 ± 4.503
pull
Entries 86
Mean 440.8
Std Dev 0
pull1D
Entries 86
Mean −0.006973
Std Dev 0.7416

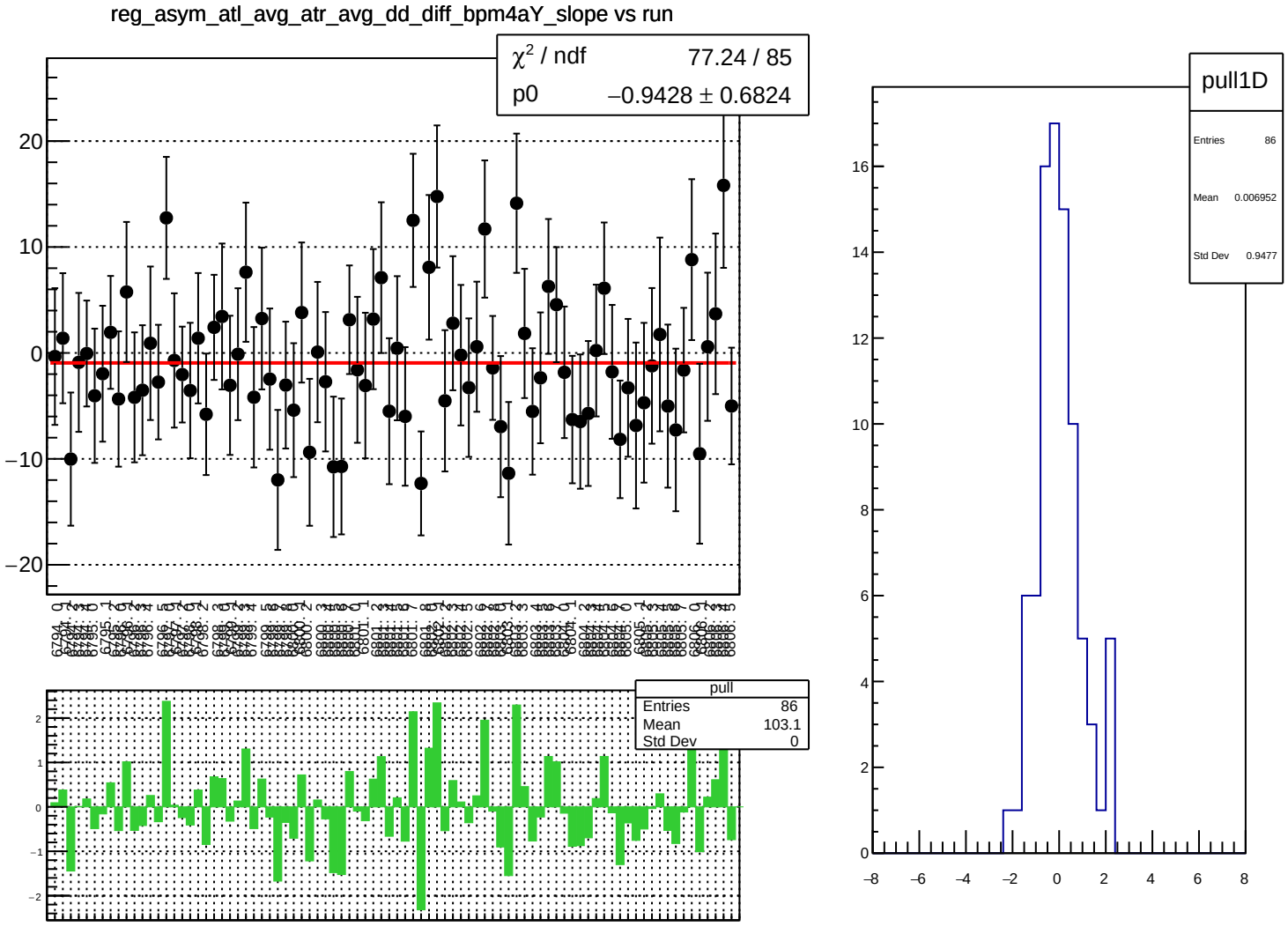

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.79 / 85
p0 24.57 ± 2.121
pull
Entries 86
Mean −5655
Std Dev 0
pull1D
Entries 86
Mean −0.0004209
Std Dev 0.4549

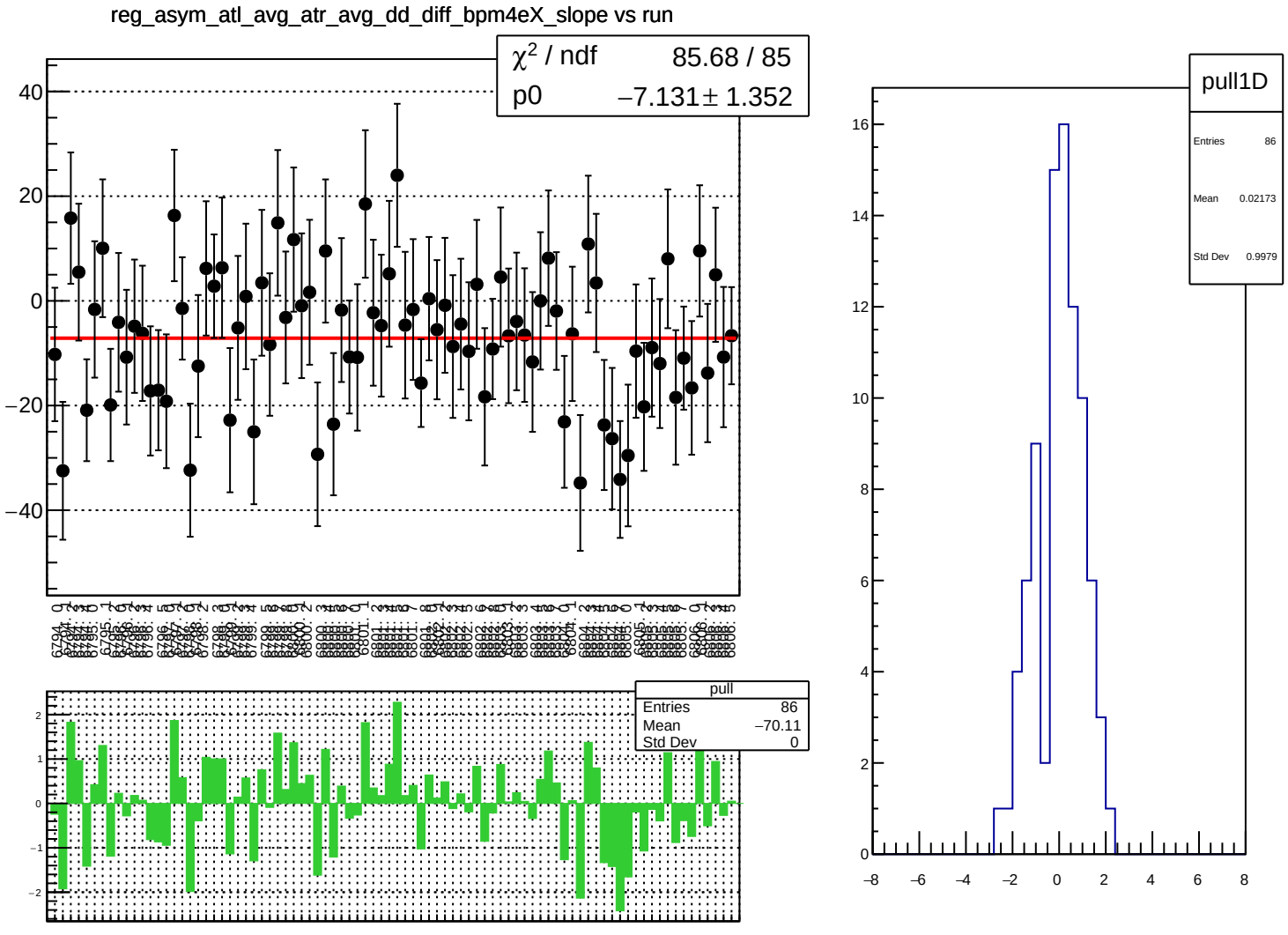

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.13 / 85
p0 270.6 ± 4.214
350
300
250
200
150
pull
Entries 86
Mean 583.1
Std Dev 0
pull1D
Entries 86
Mean 0.005453
Std Dev 0.7481

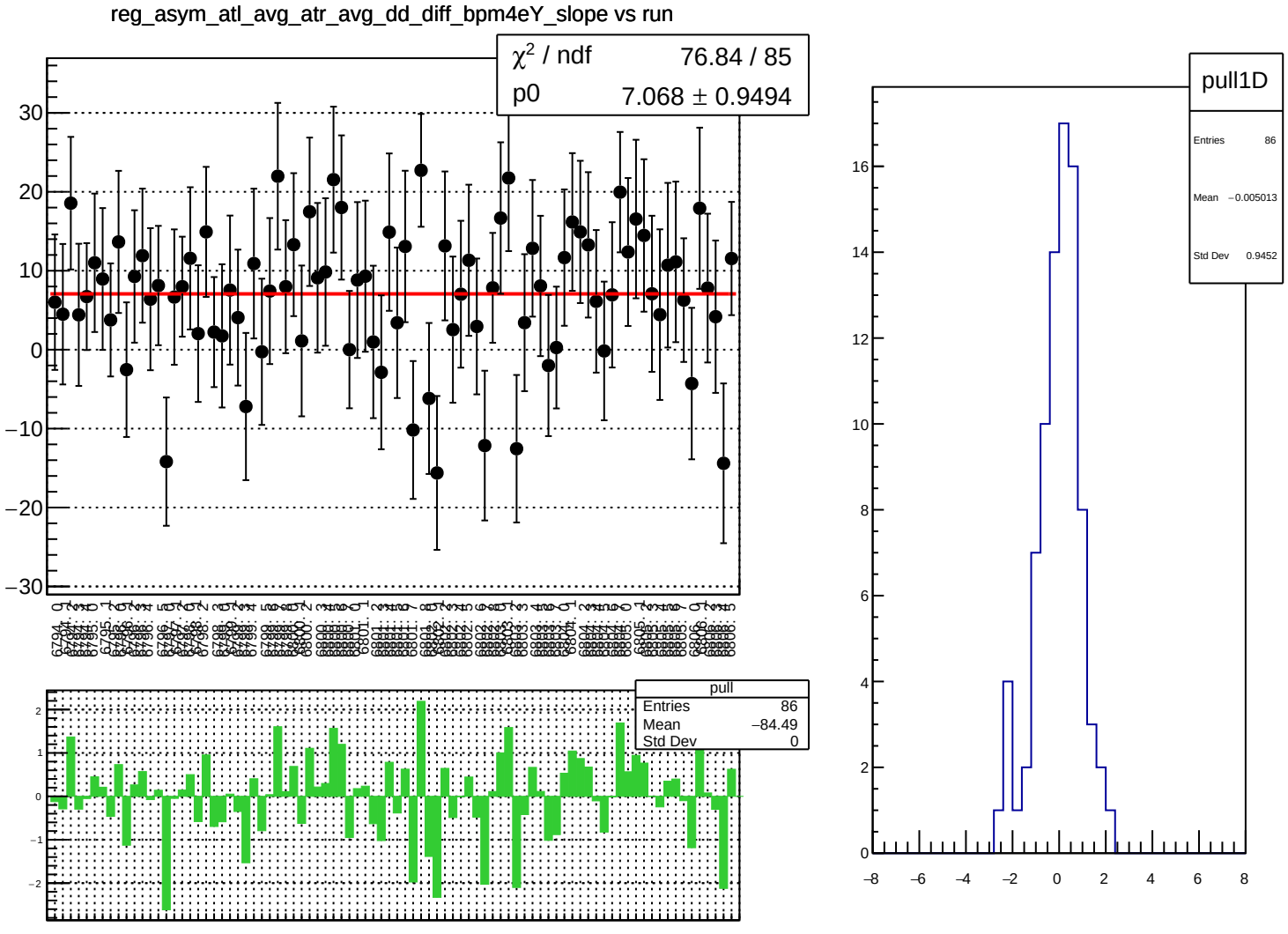

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.26 / 85
p0 27.34 ± 2.951
pull
Entries 86
Mean 502.8
Std Dev 0
pull1D
Entries 86
Mean −0.005792
Std Dev 0.4479

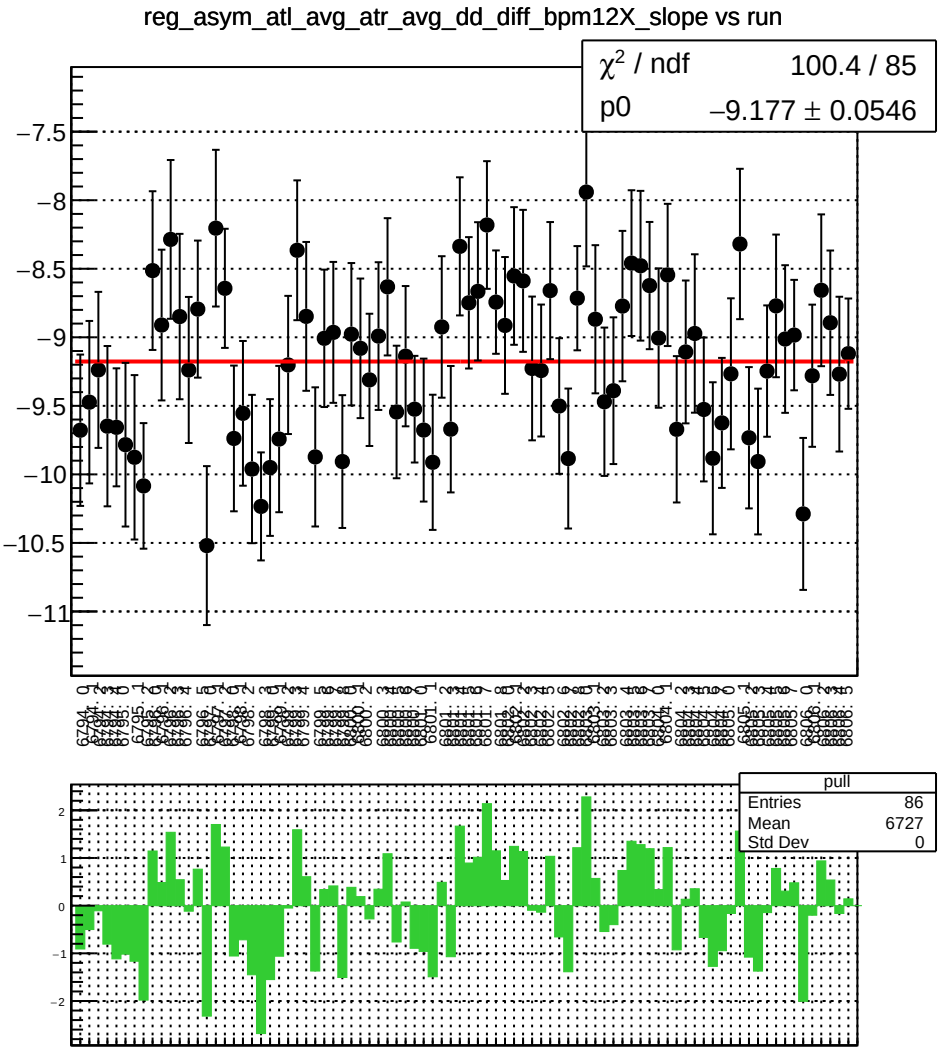

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 35.44 / 85
p0 −139.8 ± 0.1707
−136
−138
−140
−142
−144
pull
Entries 86
Mean −247
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.006784
Std Dev 0.6419
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

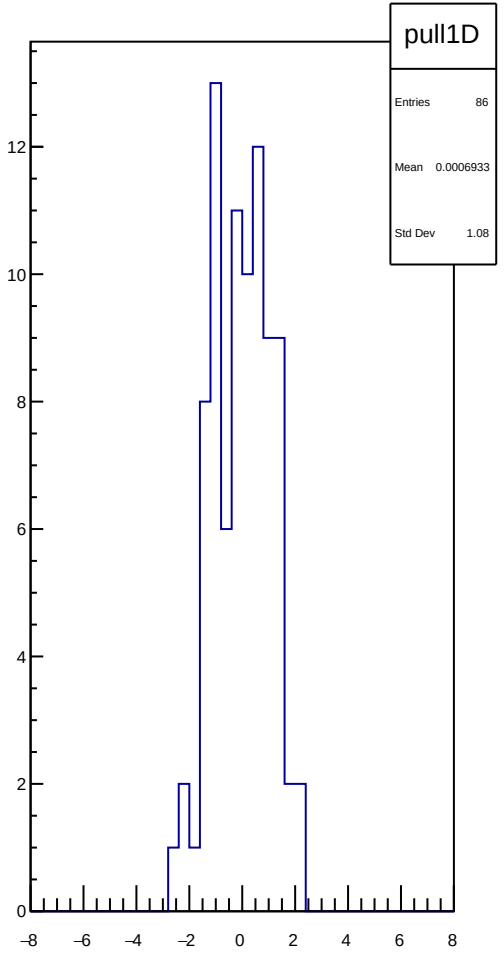

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 83.75 / 85
p0 −11.65 ± 1.445
pull
Entries 86
Mean −86.45
Std Dev 0
pull1D
Entries 86
Mean −0.01872
Std Dev 0.9867

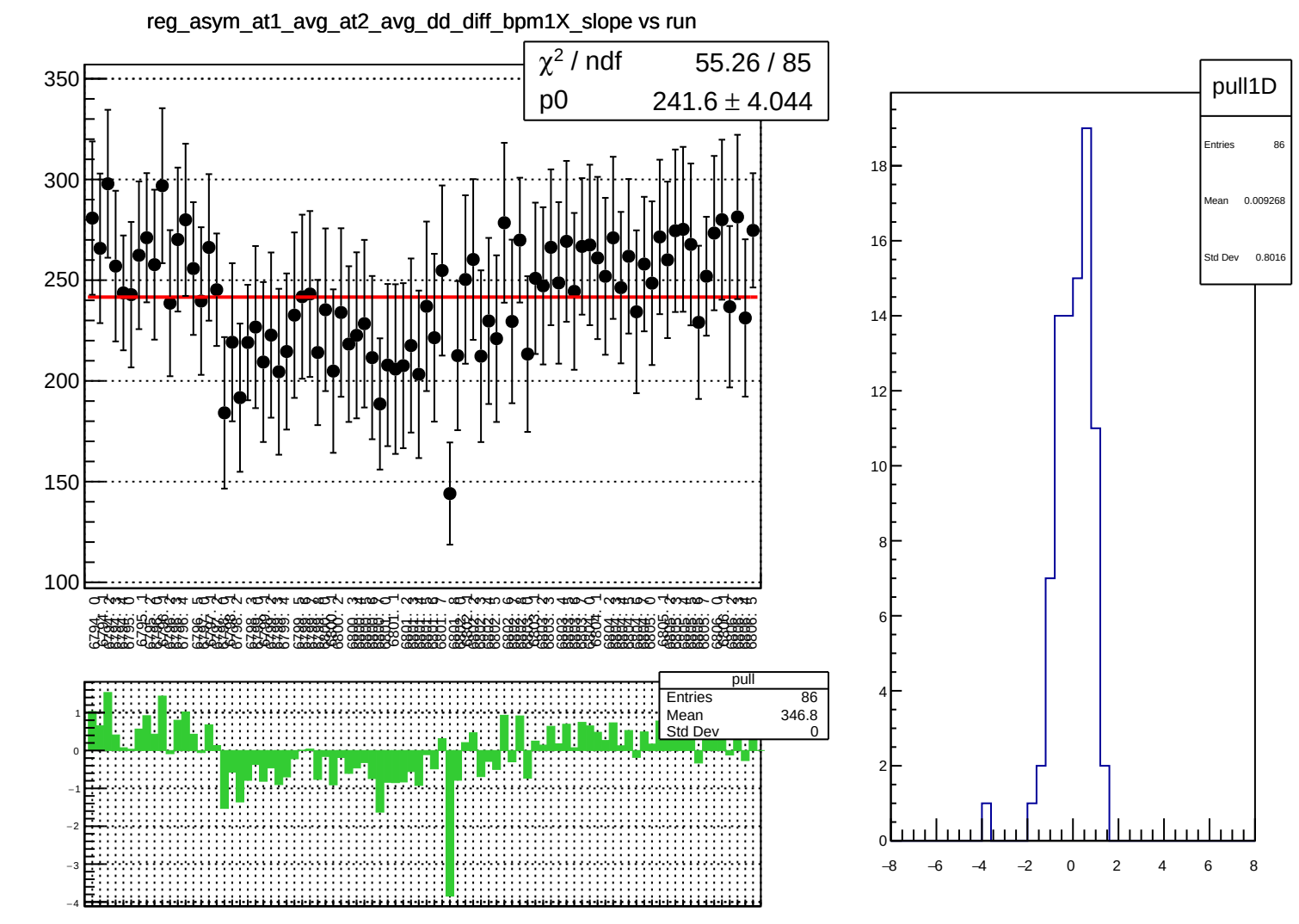

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 77.24 / 85
p0 −0.9428 ± 0.6824
pull
Entries 86
Mean 103.1
Std Dev 0
pull1D
Entries 86
Mean 0.006952
Std Dev 0.9477

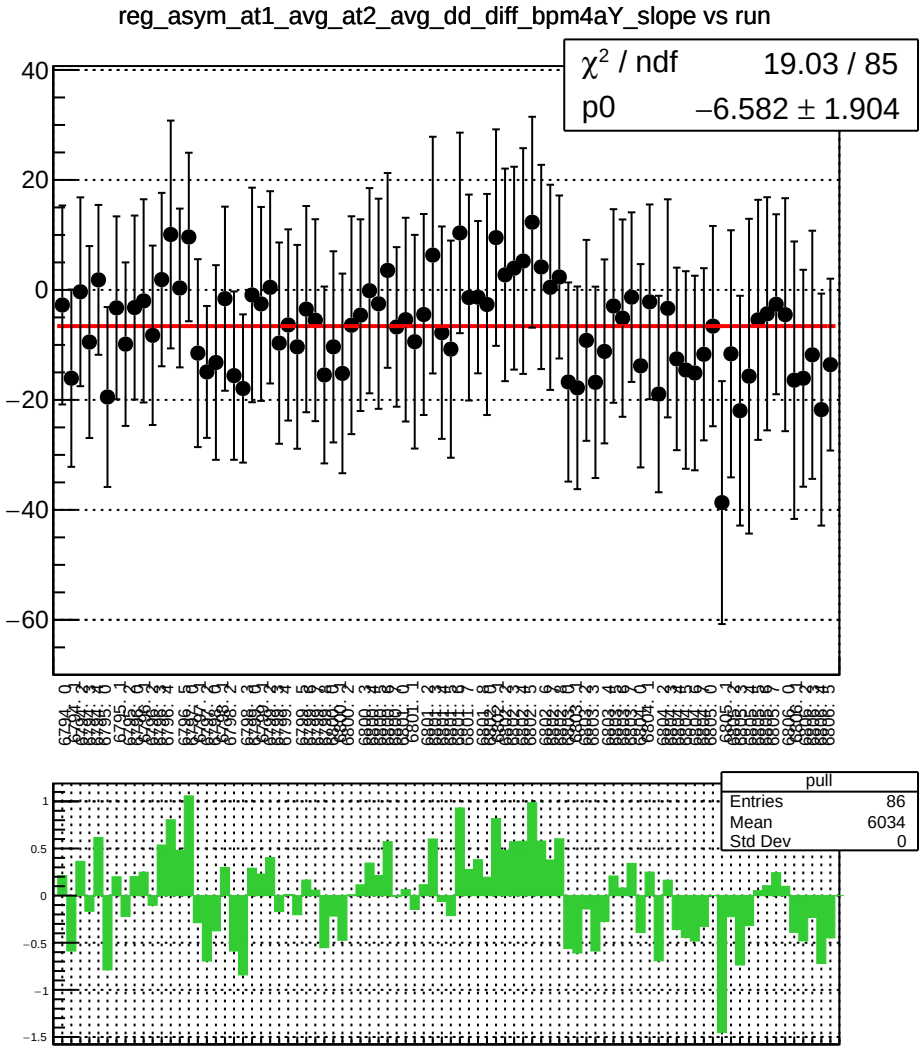

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.68 / 85
p0 −7.131 ± 1.352
pull
Entries 86
Mean −70.11
Std Dev 0
pull1D
Entries 86
Mean 0.02173
Std Dev 0.9979

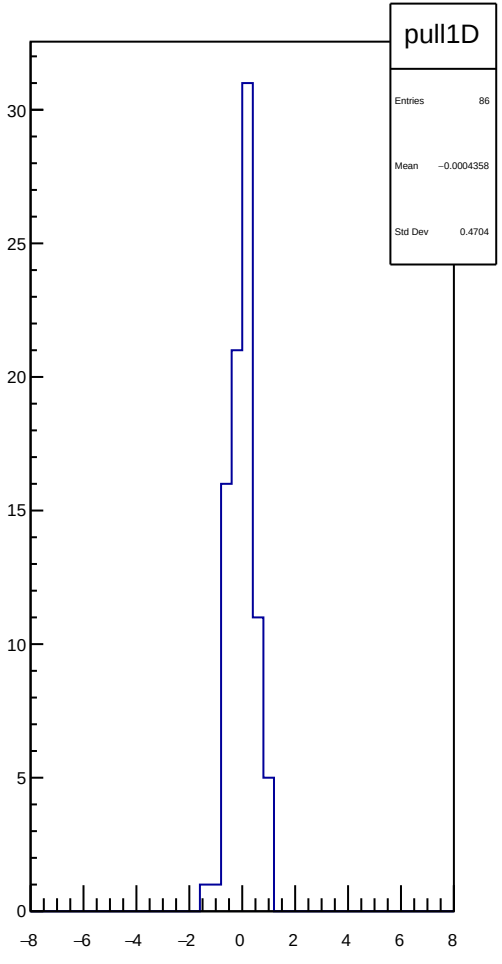

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.84 / 85
p0 7.068 ± 0.9494
pull
Entries 86
Mean −84.49
Std Dev 0
pull1D
Entries 86
Mean −0.005013
Std Dev 0.9452

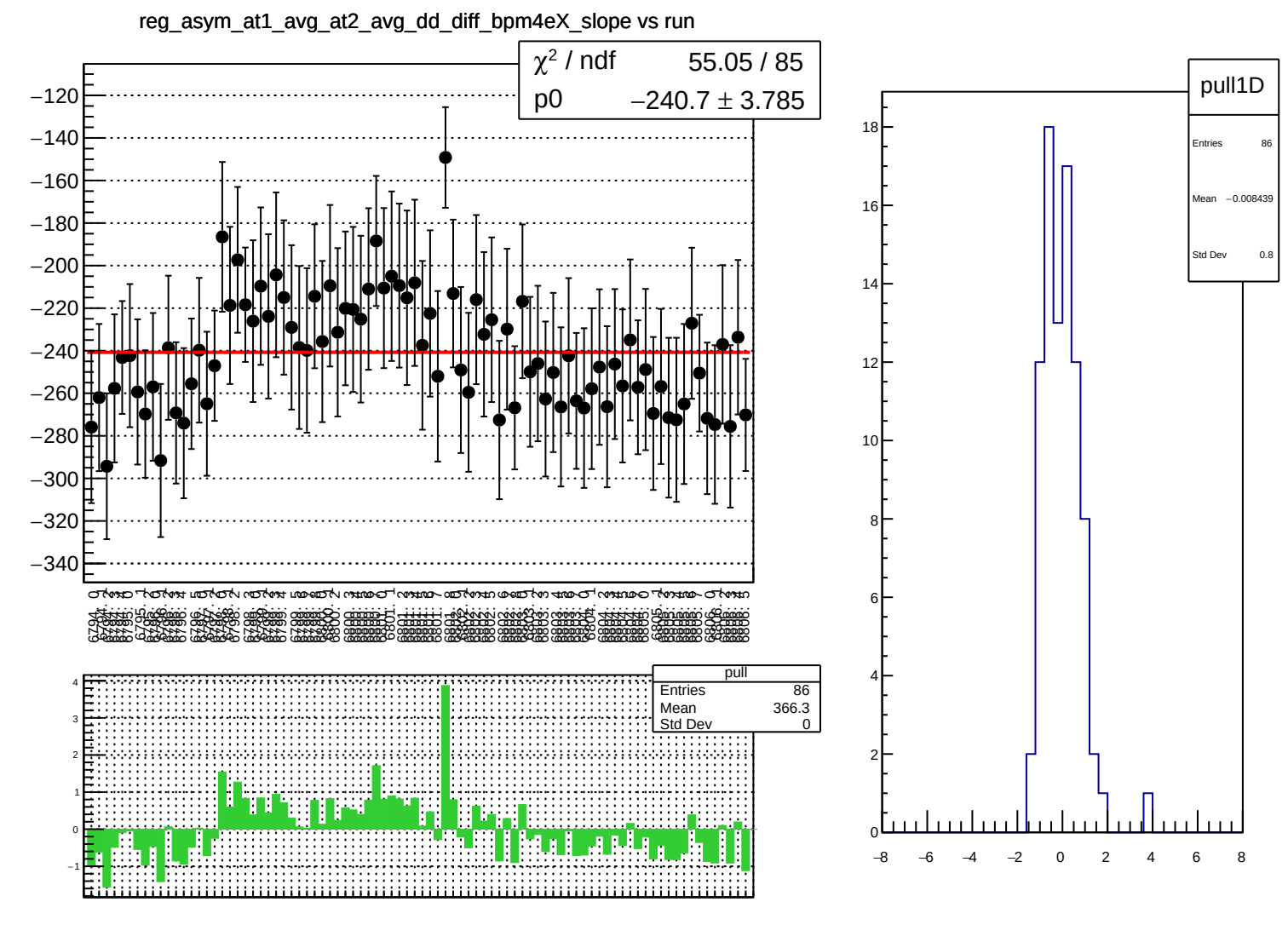

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 100.4 / 85
p0 −9.177 ± 0.0546
pull
Entries 86
Mean 6727
Std Dev 0

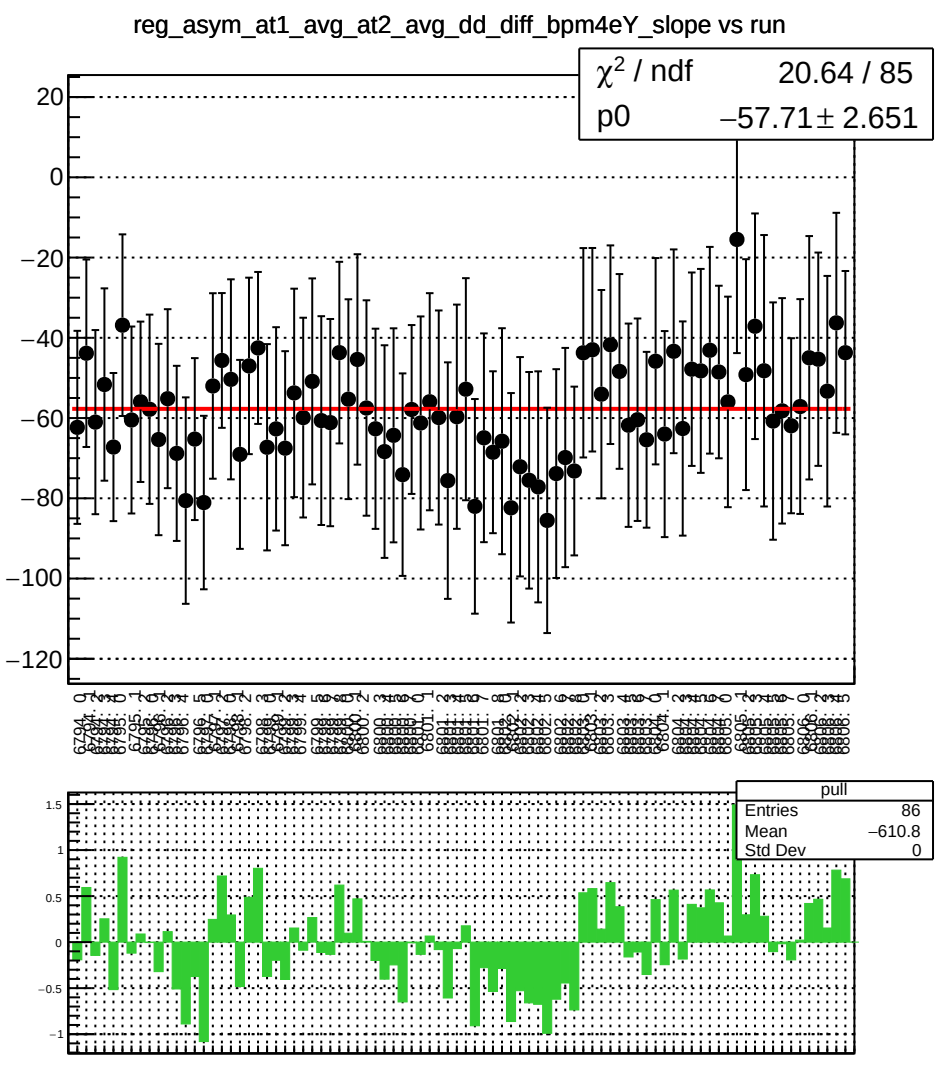

pull1D
Entries 86
Mean 0.0006933
Std Dev 1.08

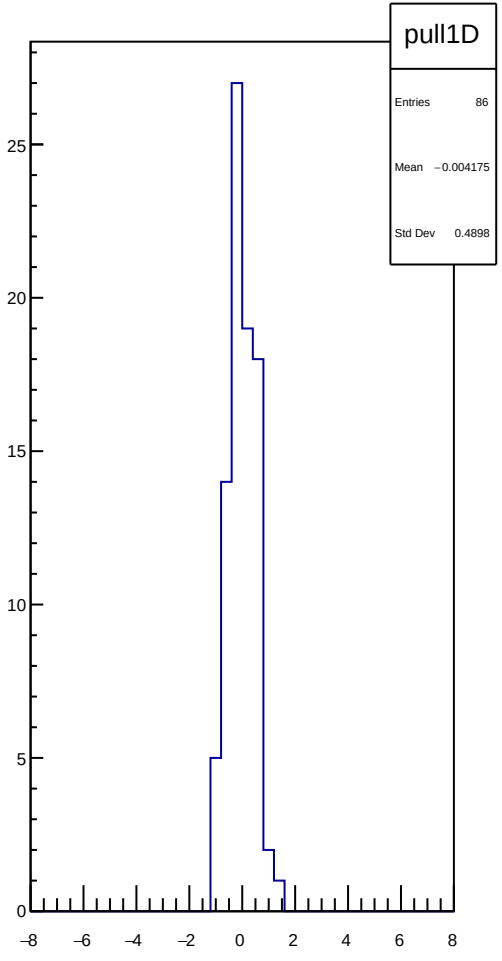

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 55.26 / 85
p0 241.6 ± 4.044
350
300
250
200
150
100
pull
Entries 86
Mean 346.8
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.009268
Std Dev 0.8016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

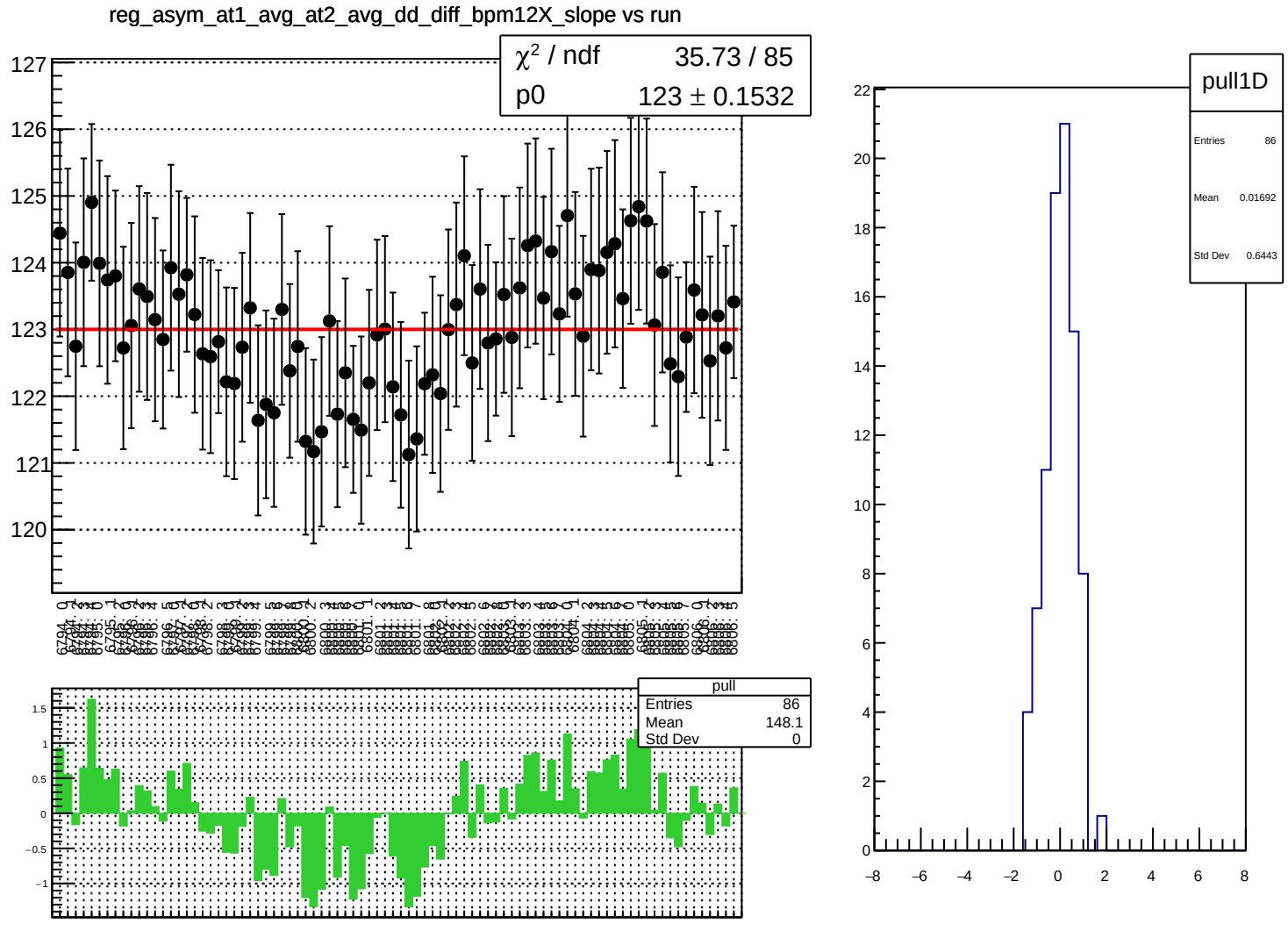

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.03 / 85
p0 −6.582 ± 1.904
pull
Entries 86
Mean 6034
Std Dev 0

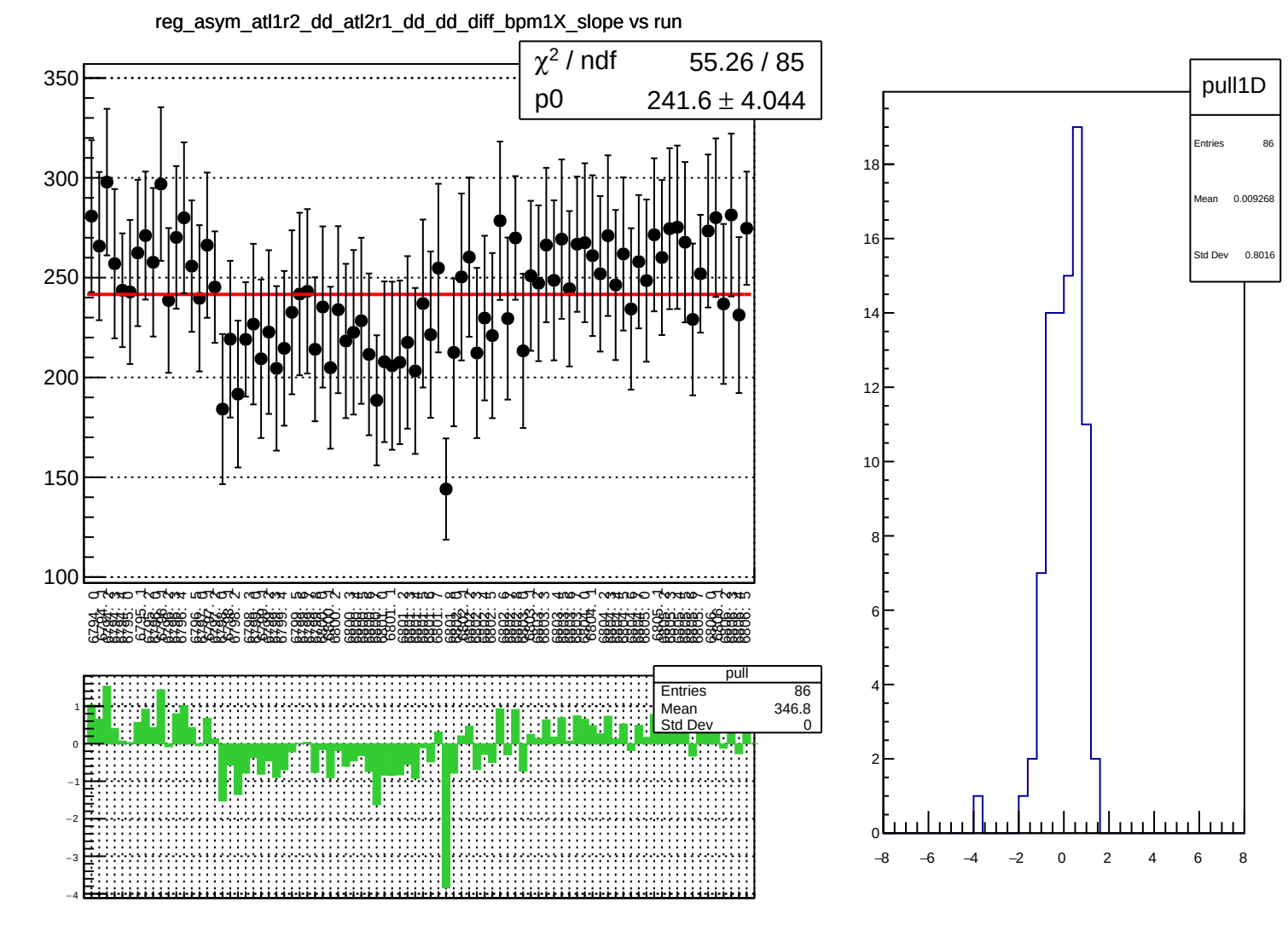

pull1D
Entries 86
Mean −0.0004358
Std Dev 0.4704

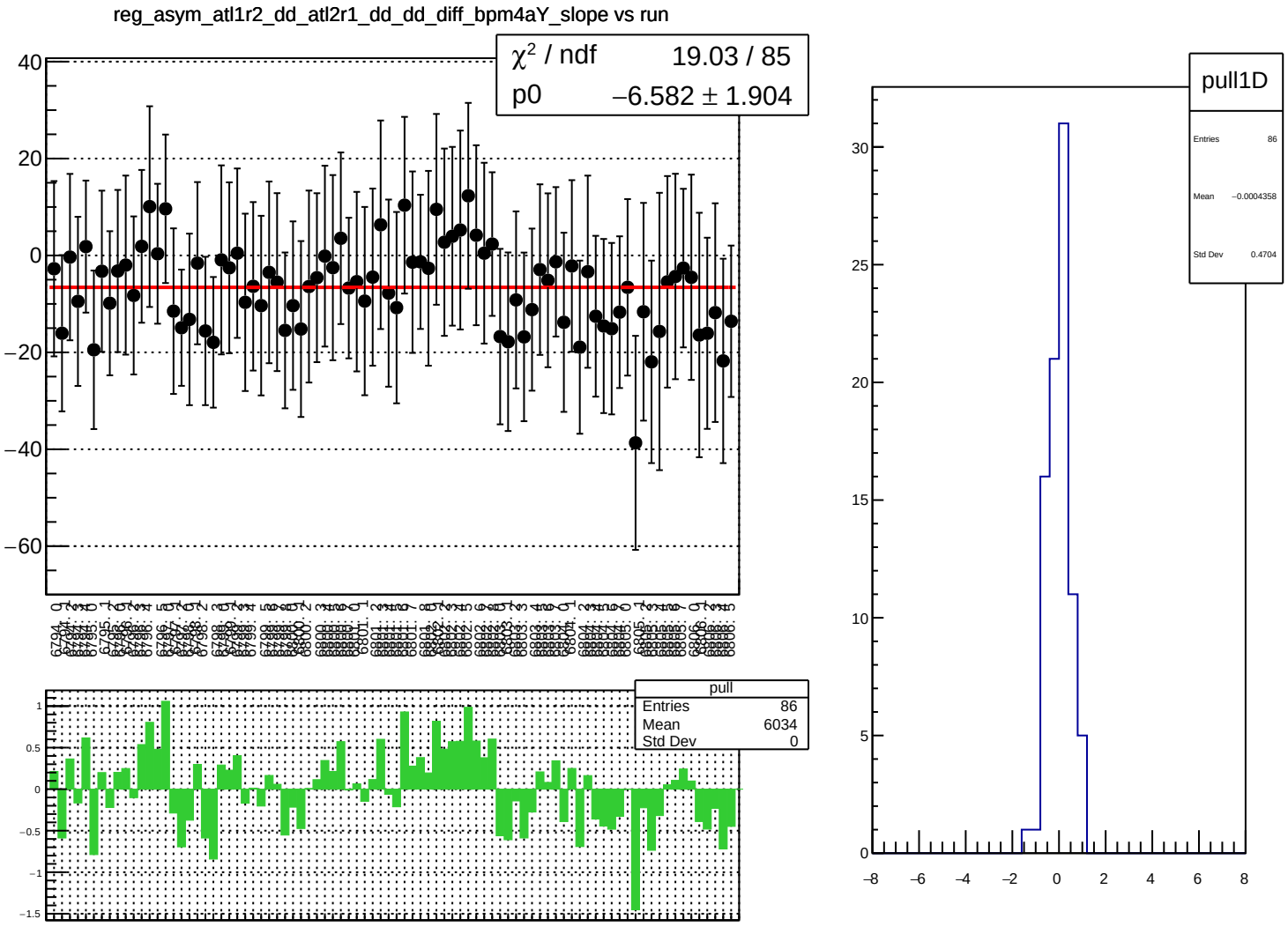

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.05 / 85
p0 −240.7 ± 3.785
pull
Entries 86
Mean 366.3
Std Dev 0
pull1D
Entries 86
Mean −0.008439
Std Dev 0.8

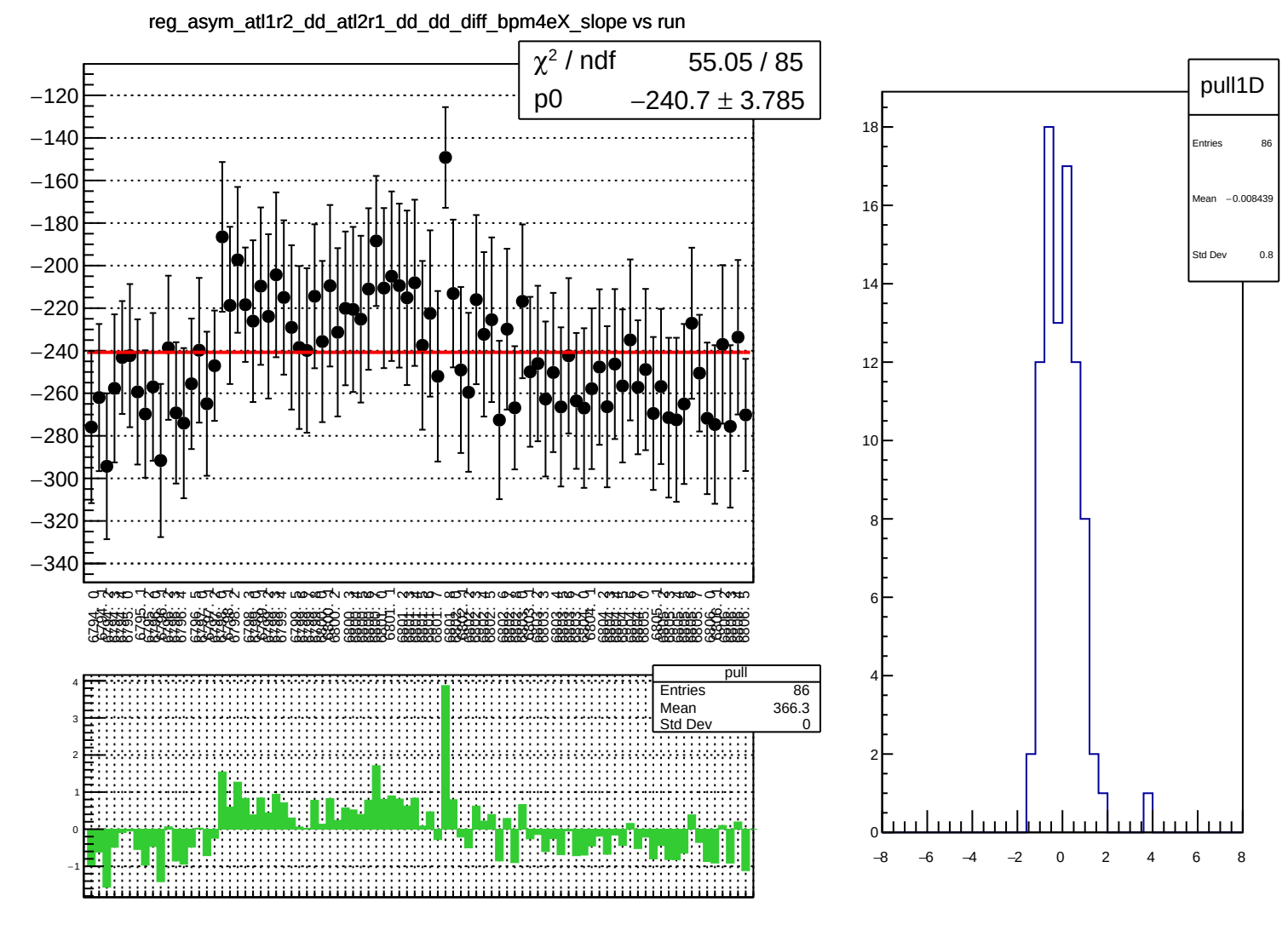

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.64 / 85
p0 −57.71 ± 2.651
pull
Entries 86
Mean −610.8
Std Dev 0

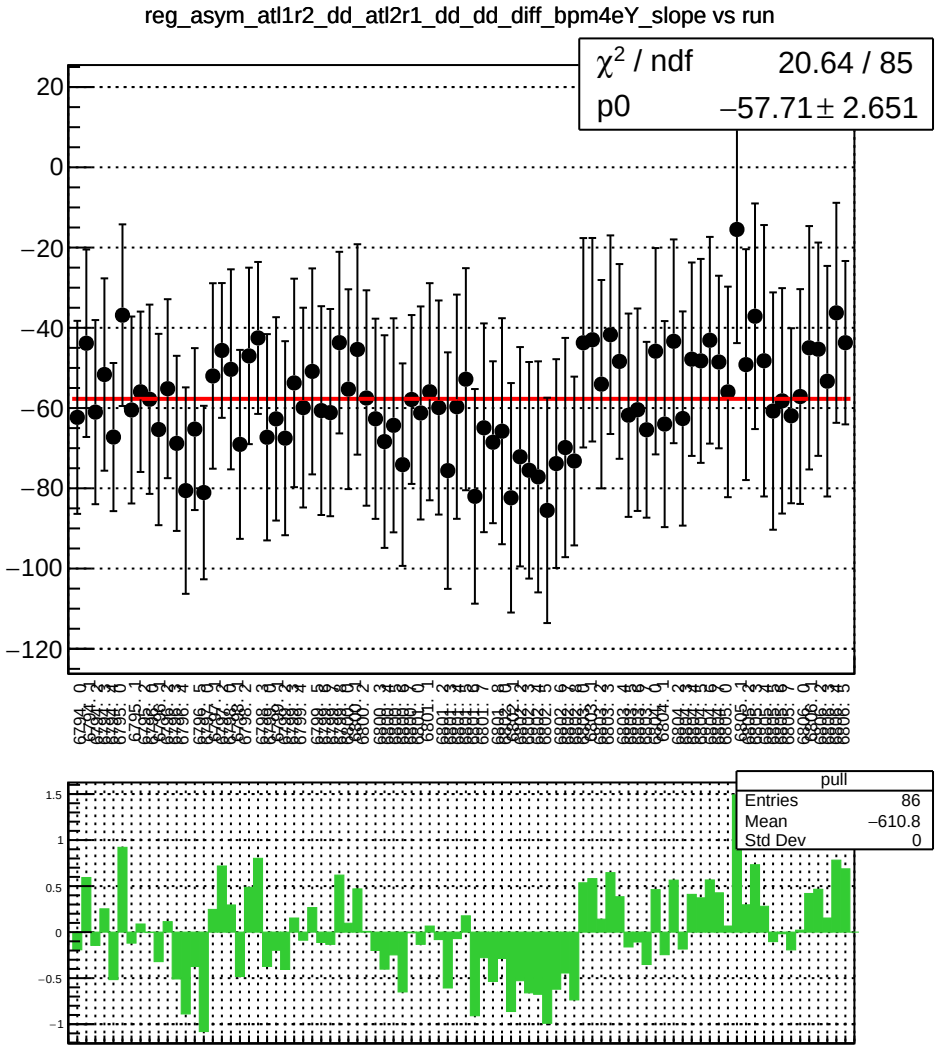

pull1D
Entries 86
Mean −0.004175
Std Dev 0.4898

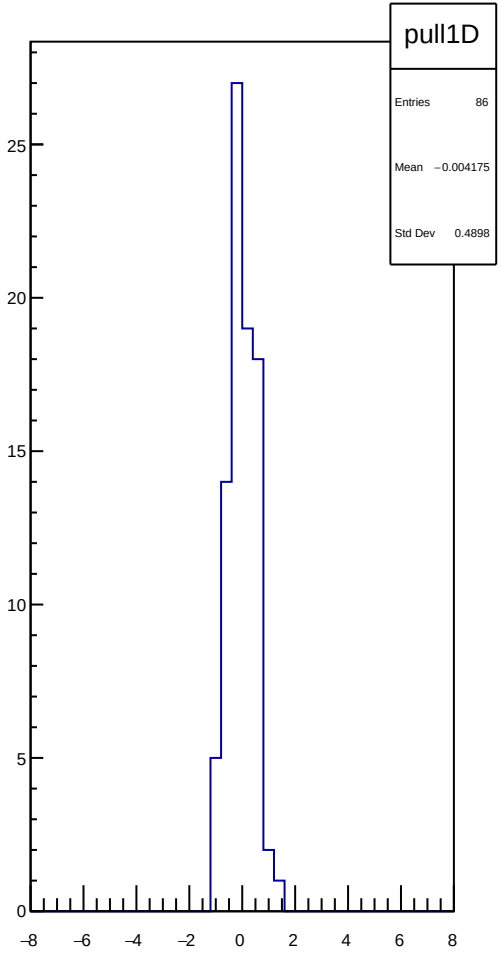

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 35.73 / 85
p0 123 ± 0.1532
pull
Entries 86
Mean 148.1
Std Dev 0
pull1D
Entries 86
Mean 0.01692
Std Dev 0.6443

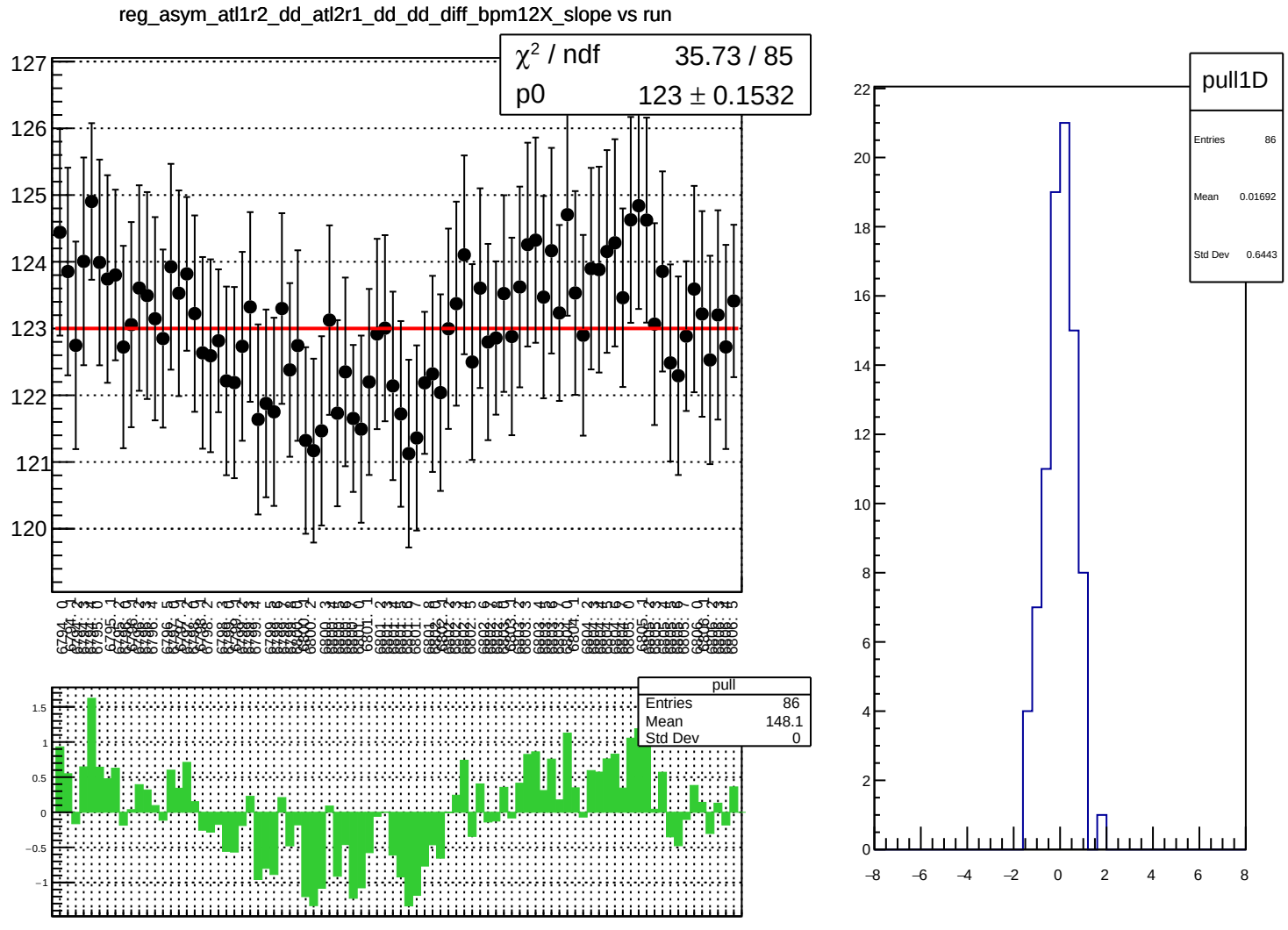

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 55.26 / 85
p0 241.6 ± 4.044
pull
Entries 86
Mean 346.8
Std Dev 0
pull1D
Entries 86
Mean 0.009268
Std Dev 0.8016

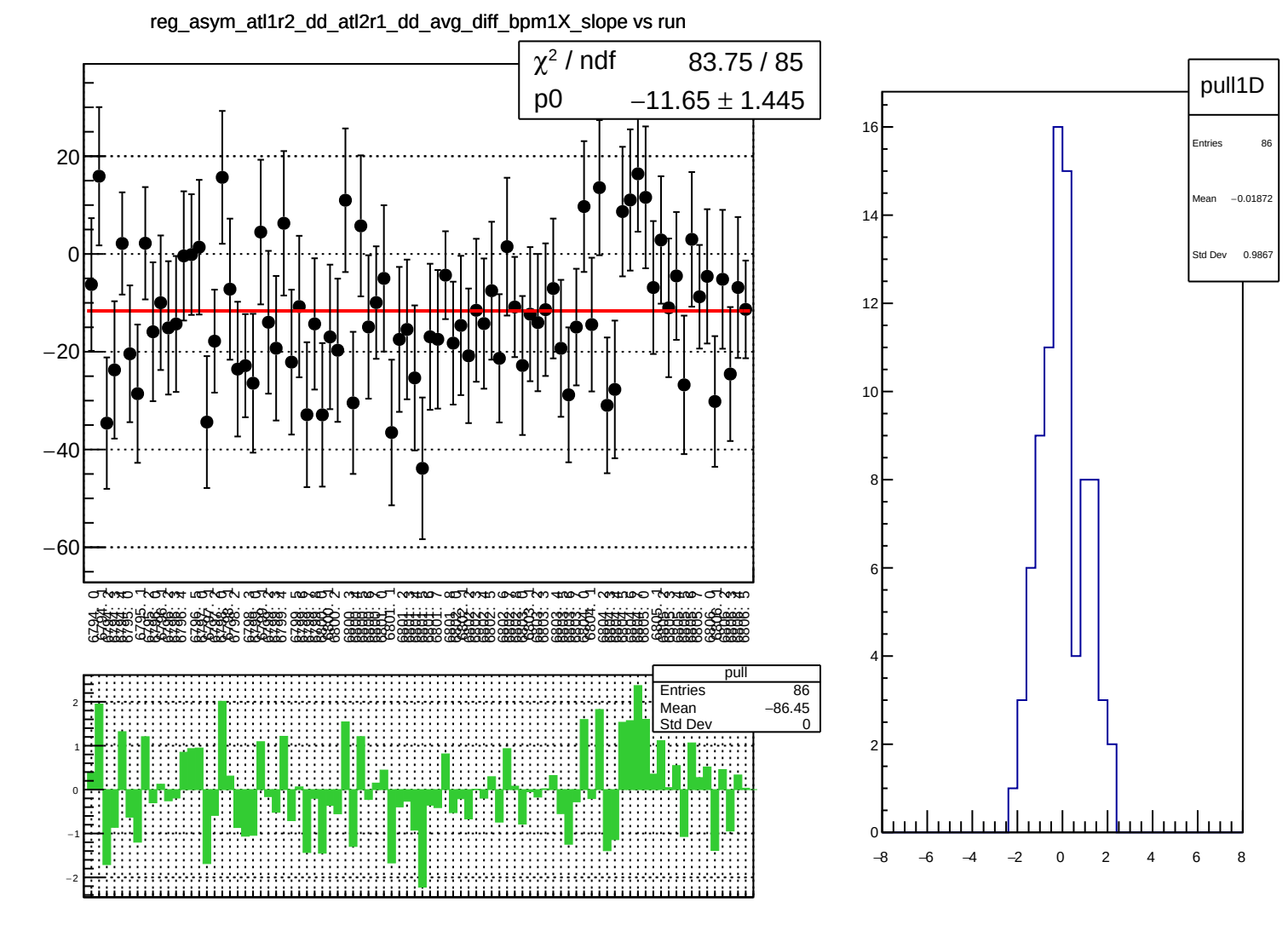

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.03 / 85
p0 −6.582 ± 1.904
pull
Entries 86
Mean 6034
Std Dev 0
pull1D
Entries 86
Mean −0.0004358
Std Dev 0.4704

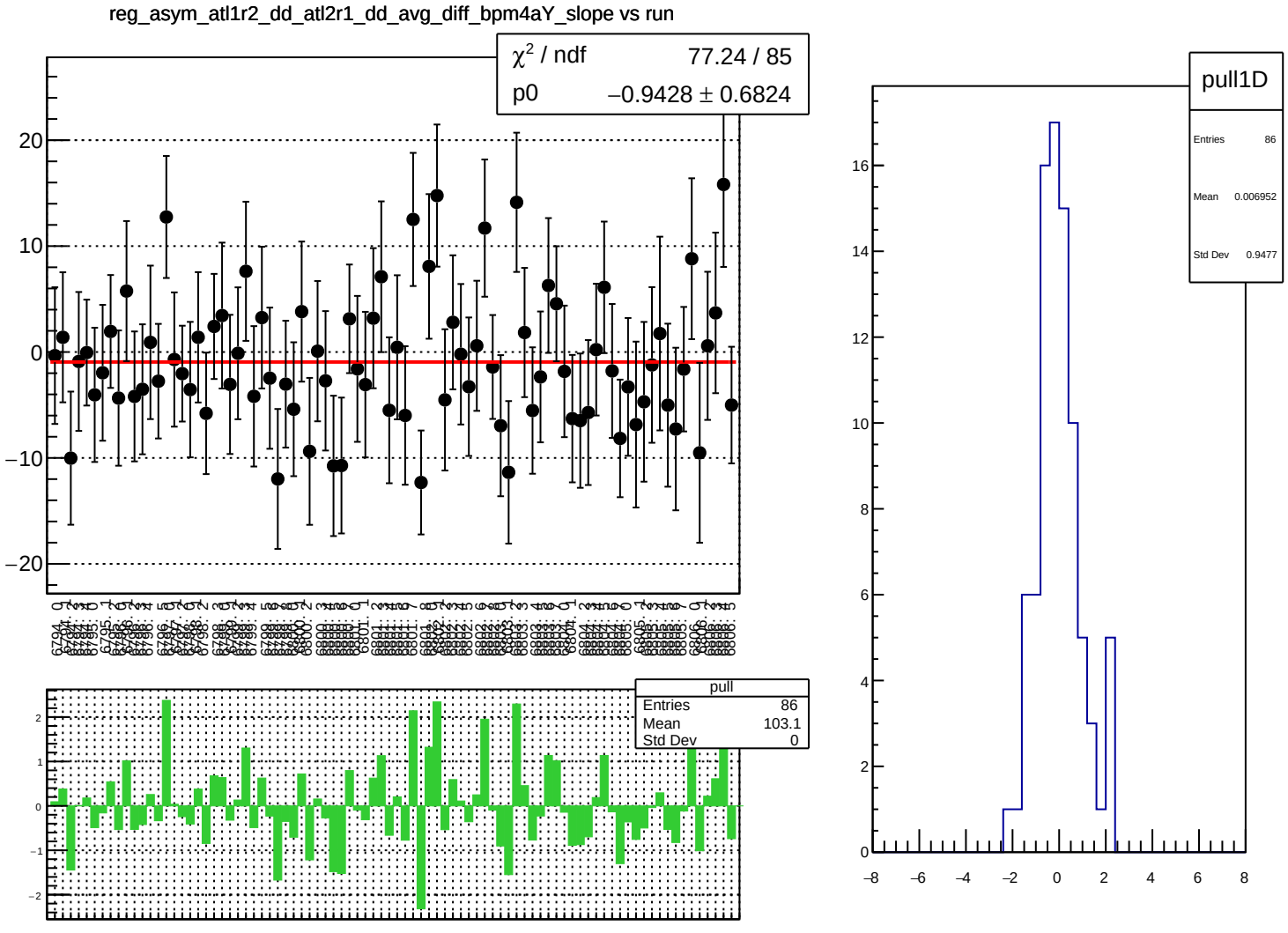

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.05 / 85
p0 −240.7 ± 3.785
pull
Entries 86
Mean 366.3
Std Dev 0
pull1D
Entries 86
Mean −0.008439
Std Dev 0.8

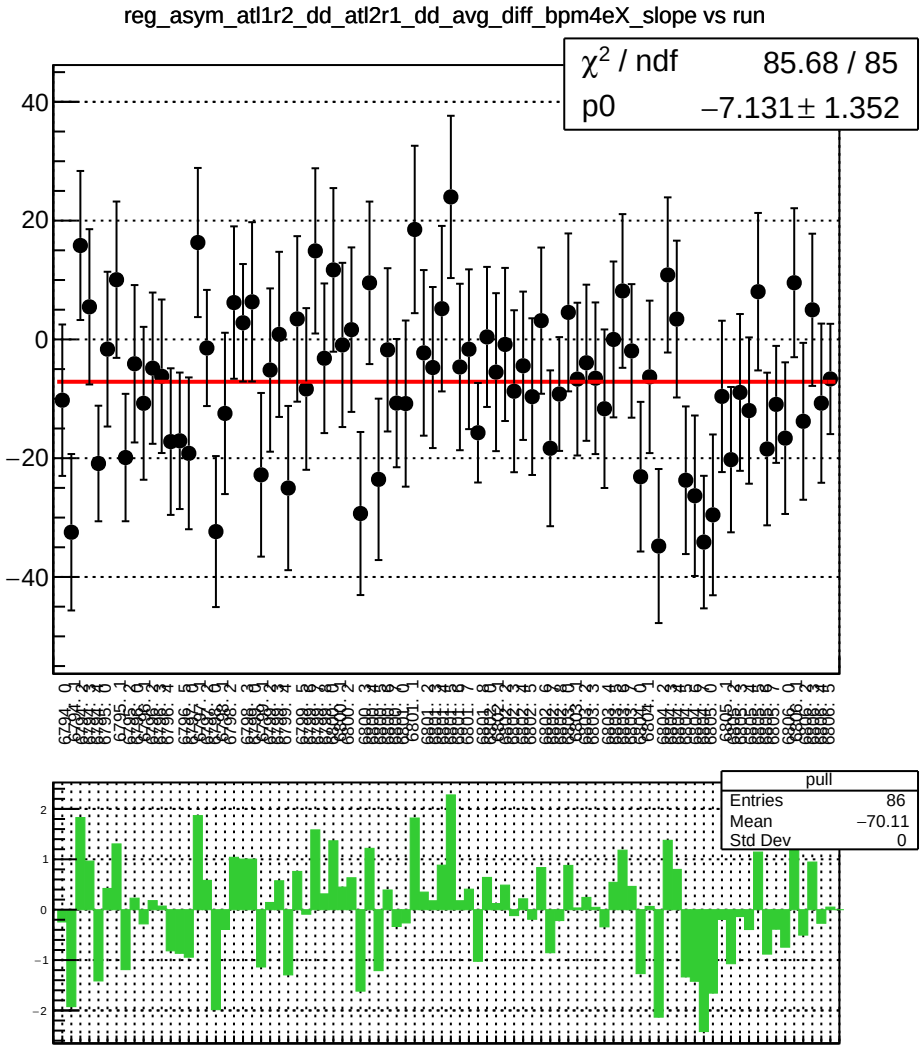

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.64 / 85
p0 −57.71 ± 2.651
pull
Entries 86
Mean −610.8
Std Dev 0

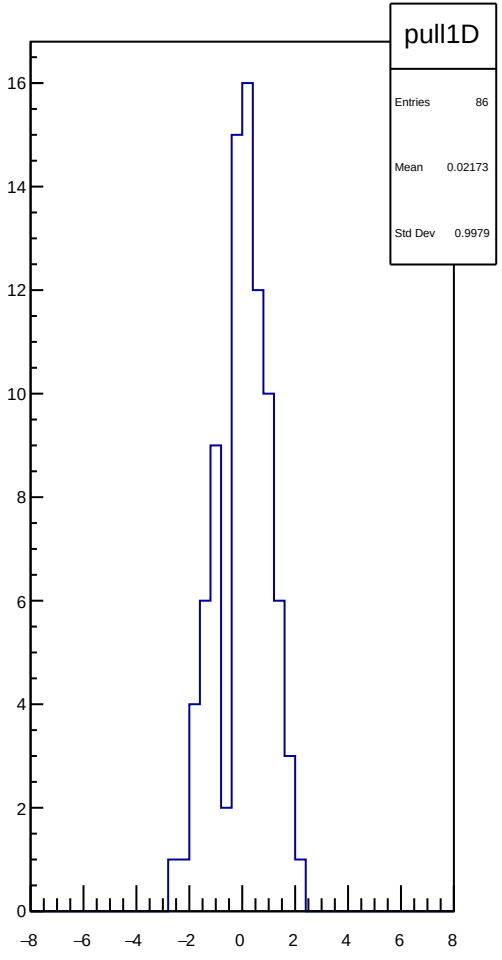

pull1D
Entries 86
Mean −0.004175
Std Dev 0.4898

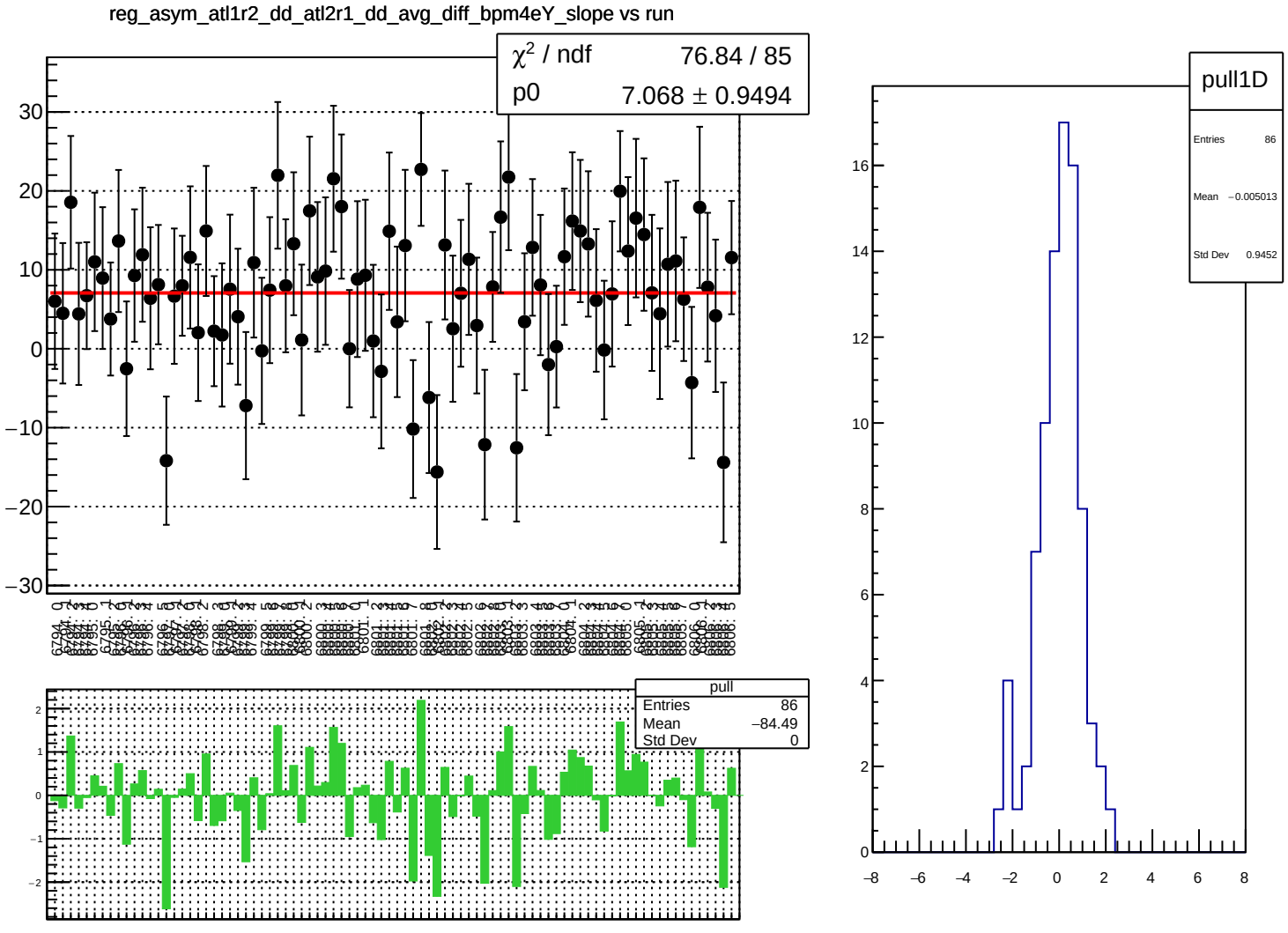

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 35.73 / 85
p0 123 ± 0.1532
pull
Entries 86
Mean 148.1
Std Dev 0
pull1D
Entries 86
Mean 0.01692
Std Dev 0.6443

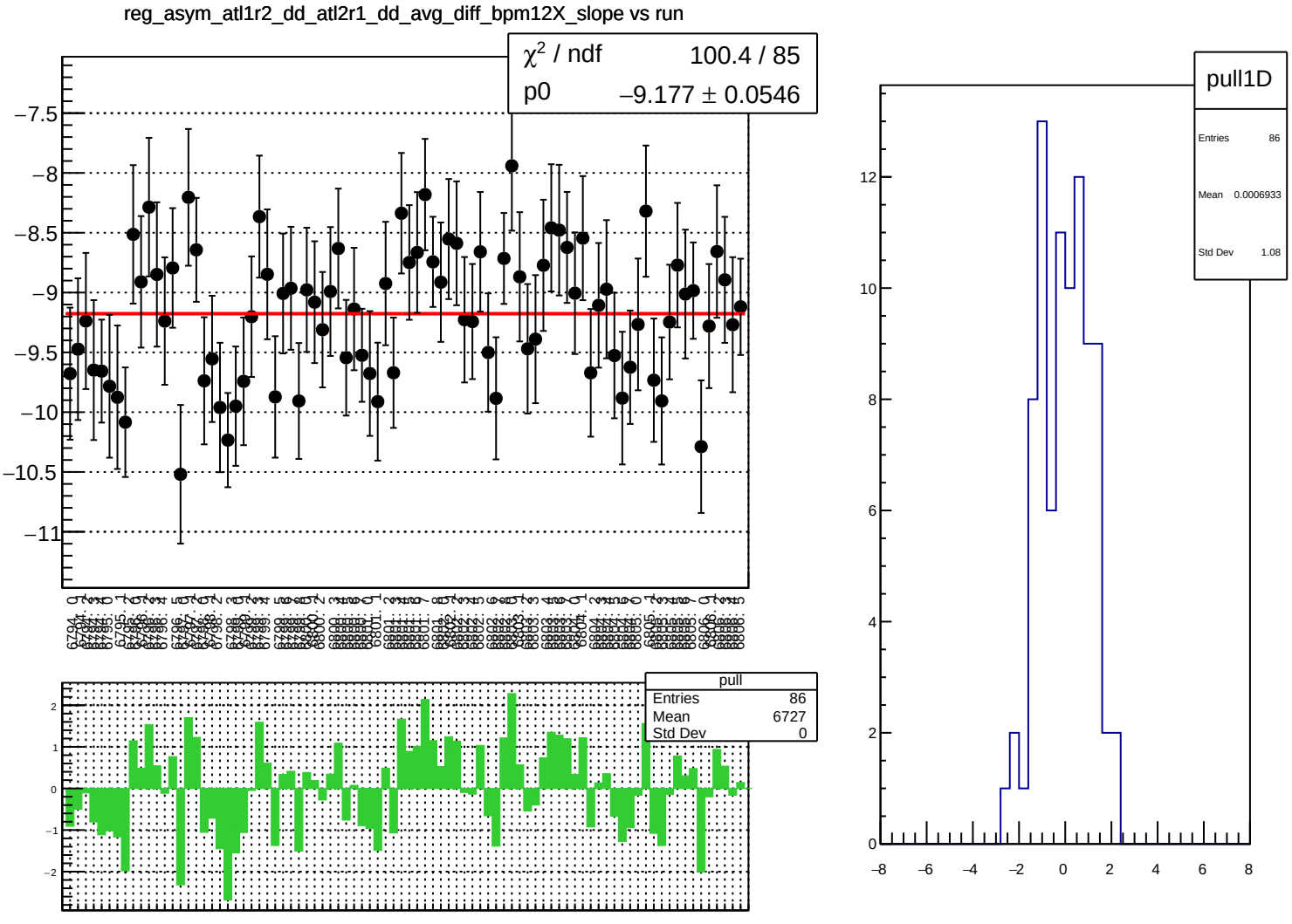

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.75 / 85
p0 −11.65 ± 1.445
pull
Entries 86
Mean −86.45
Std Dev 0
pull1D
Entries 86
Mean −0.01872
Std Dev 0.9867

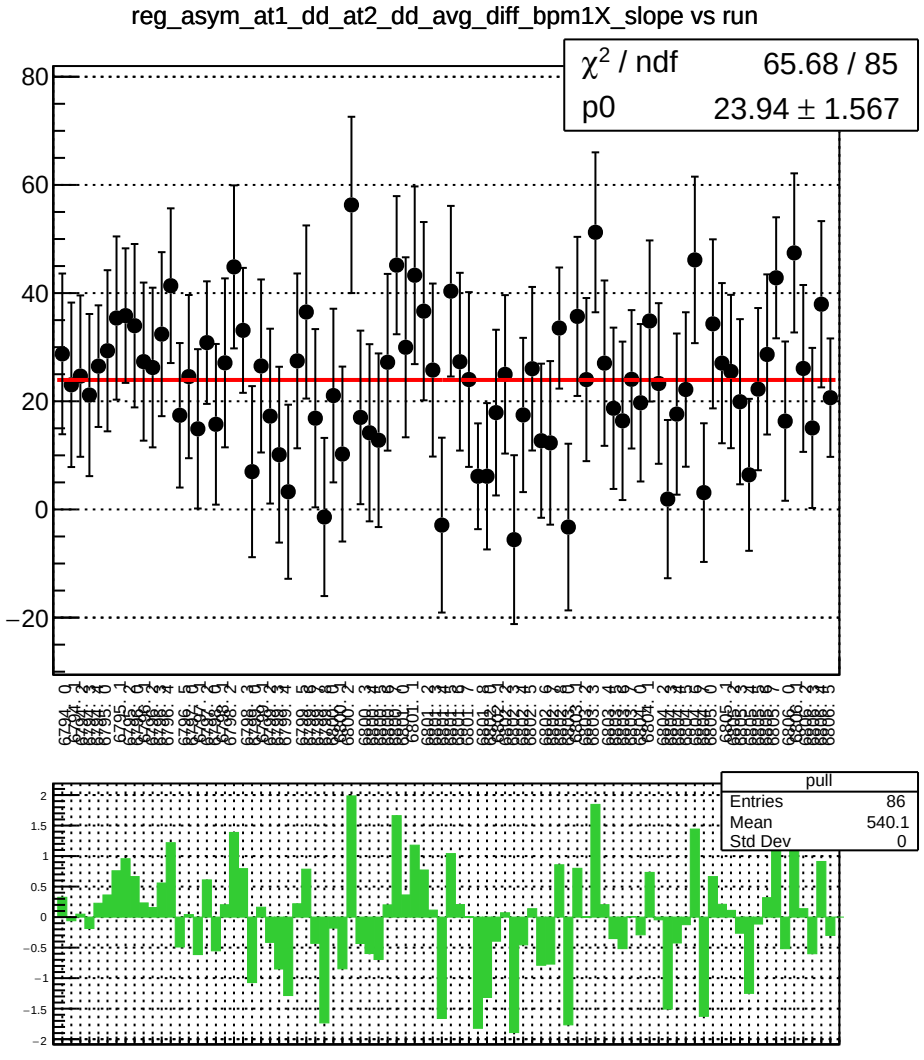

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 77.24 / 85
p0 −0.9428 ± 0.6824
pull
Entries 86
Mean 103.1
Std Dev 0
pull1D
Entries 86
Mean 0.006952
Std Dev 0.9477

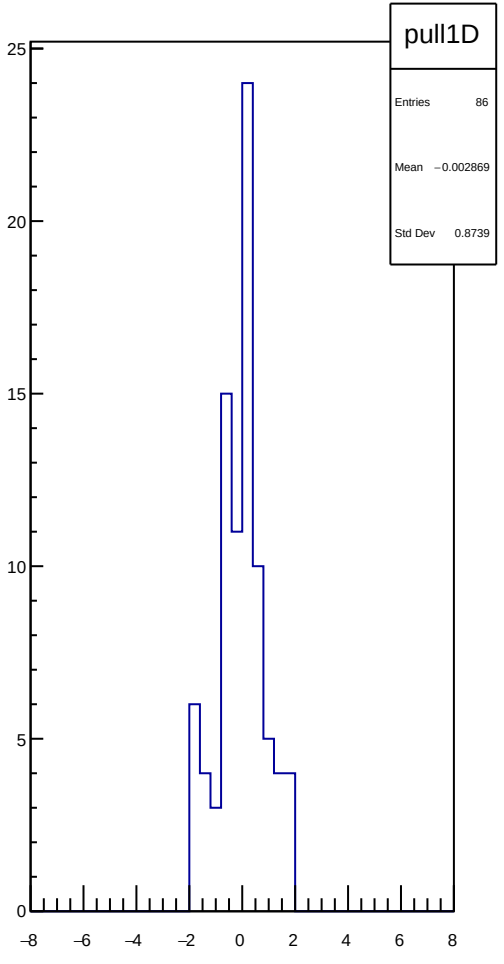

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.68 / 85
p0 −7.131 ± 1.352
pull
Entries 86
Mean −70.11
Std Dev 0

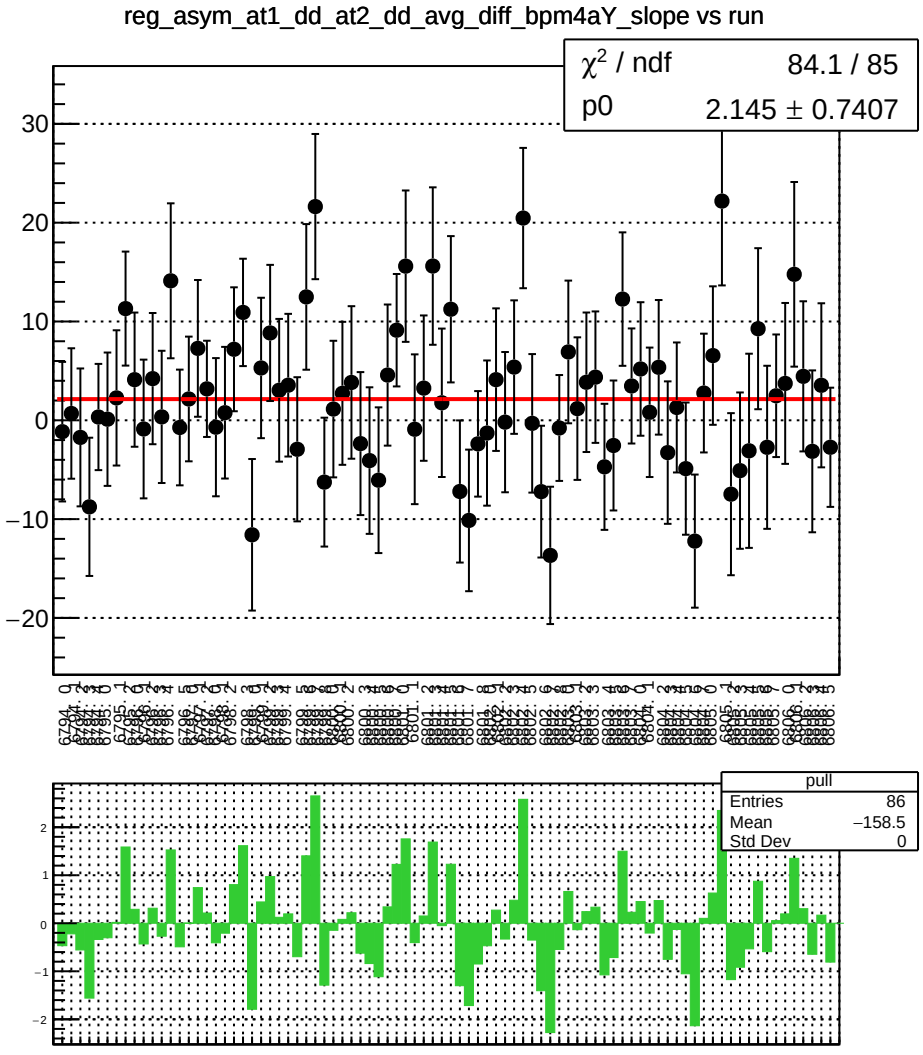

pull1D
Entries 86
Mean 0.02173
Std Dev 0.9979

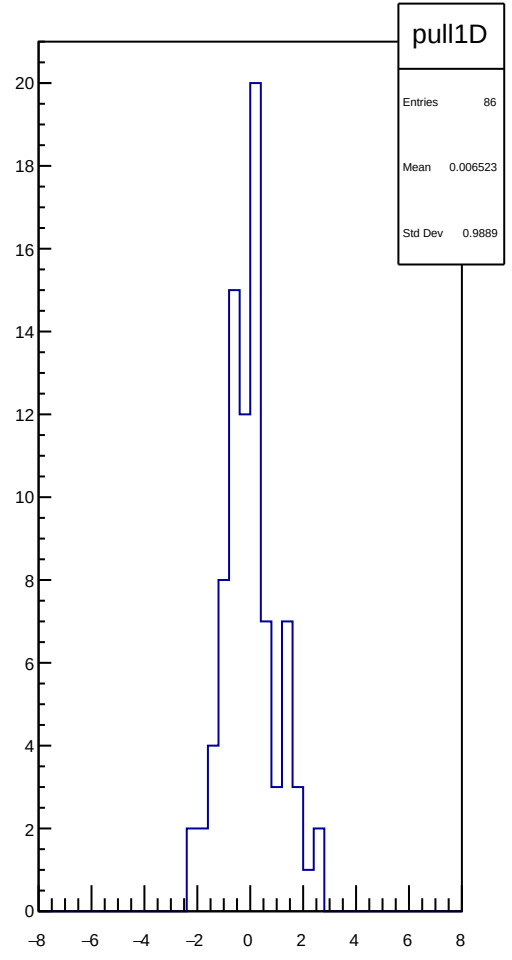

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 76.84 / 85
p0 7.068 ± 0.9494
pull
Entries 86
Mean −84.49
Std Dev 0
pull1D
Entries 86
Mean −0.005013
Std Dev 0.9452

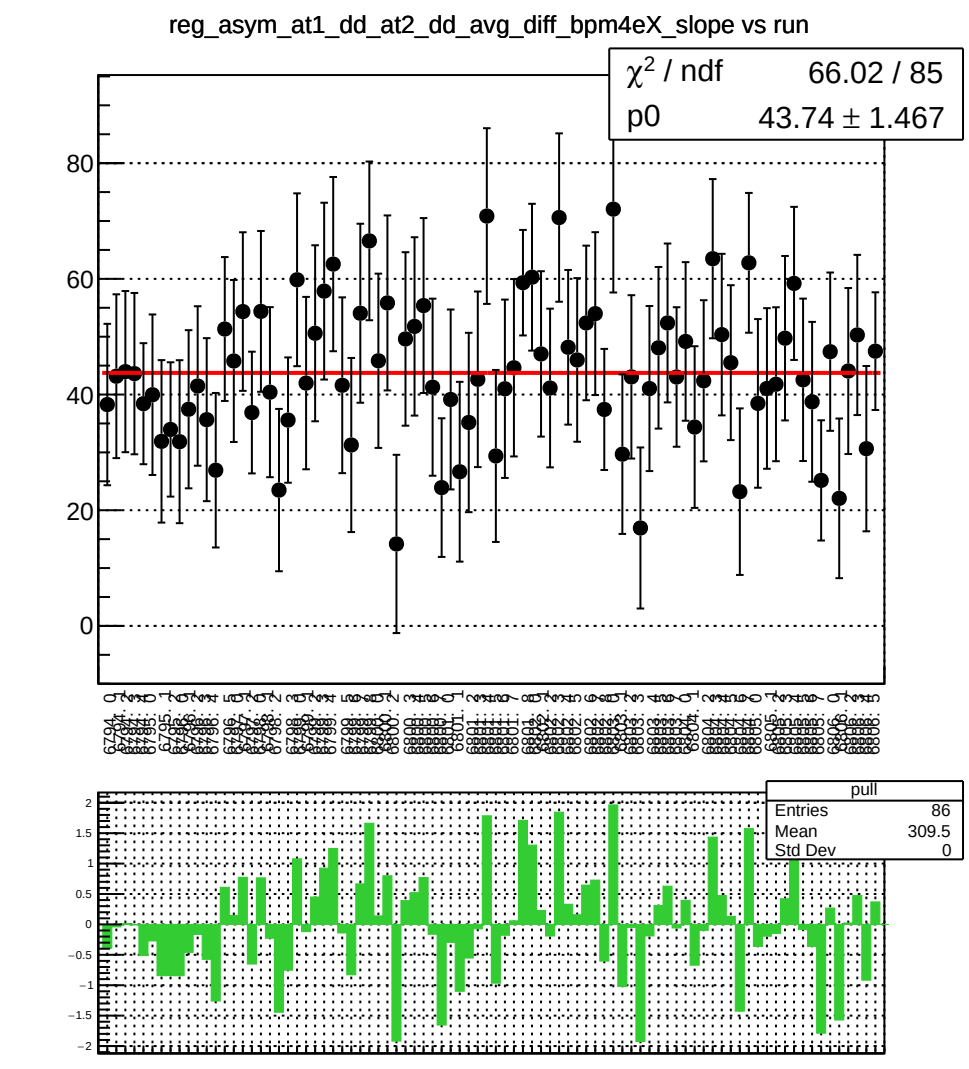

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 100.4 / 85
p0 −9.177 ± 0.0546
pull
Entries 86
Mean 6727
Std Dev 0
pull1D
Entries 86
Mean 0.0006933
Std Dev 1.08

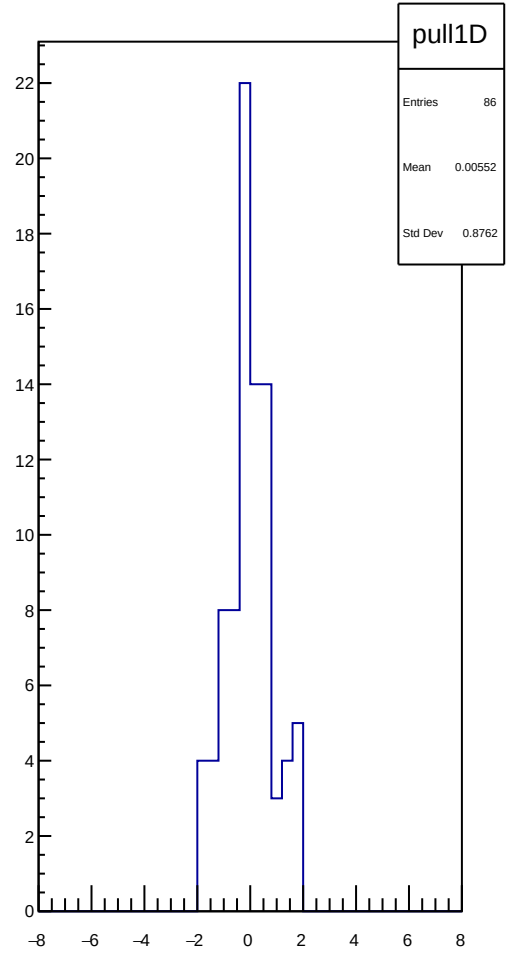

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 65.68 / 85
p0 23.94 ± 1.567
pull
Entries 86
Mean 540.1
Std Dev 0

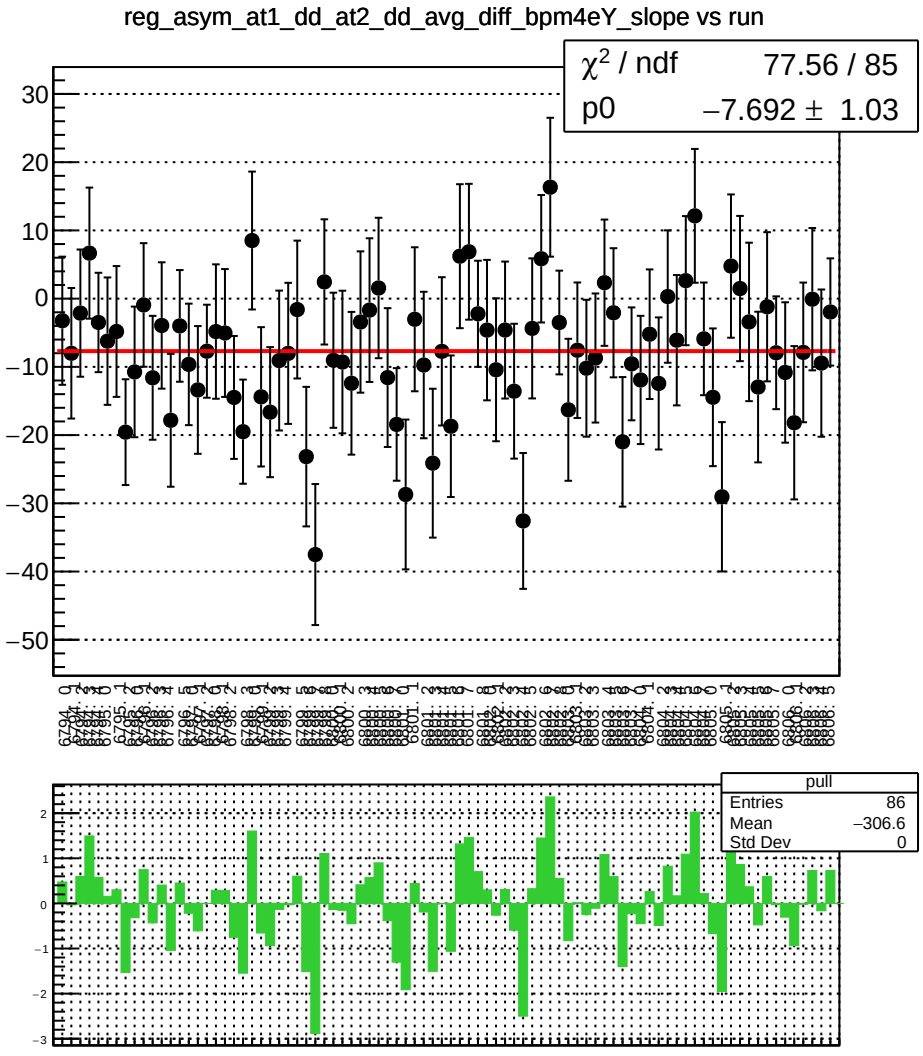

pull1D
Entries 86
Mean −0.002869
Std Dev 0.8739

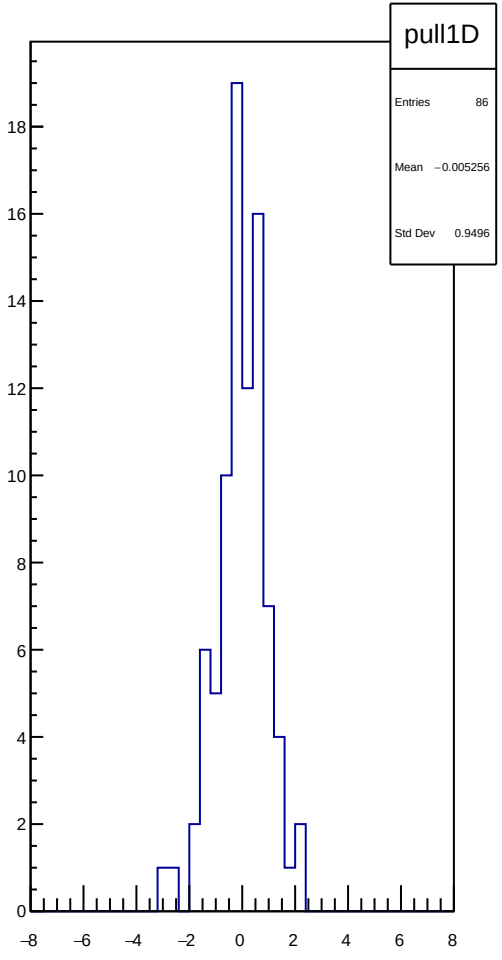

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.1 / 85
p0 2.145 ± 0.7407
pull
Entries 86
Mean −158.5
Std Dev 0

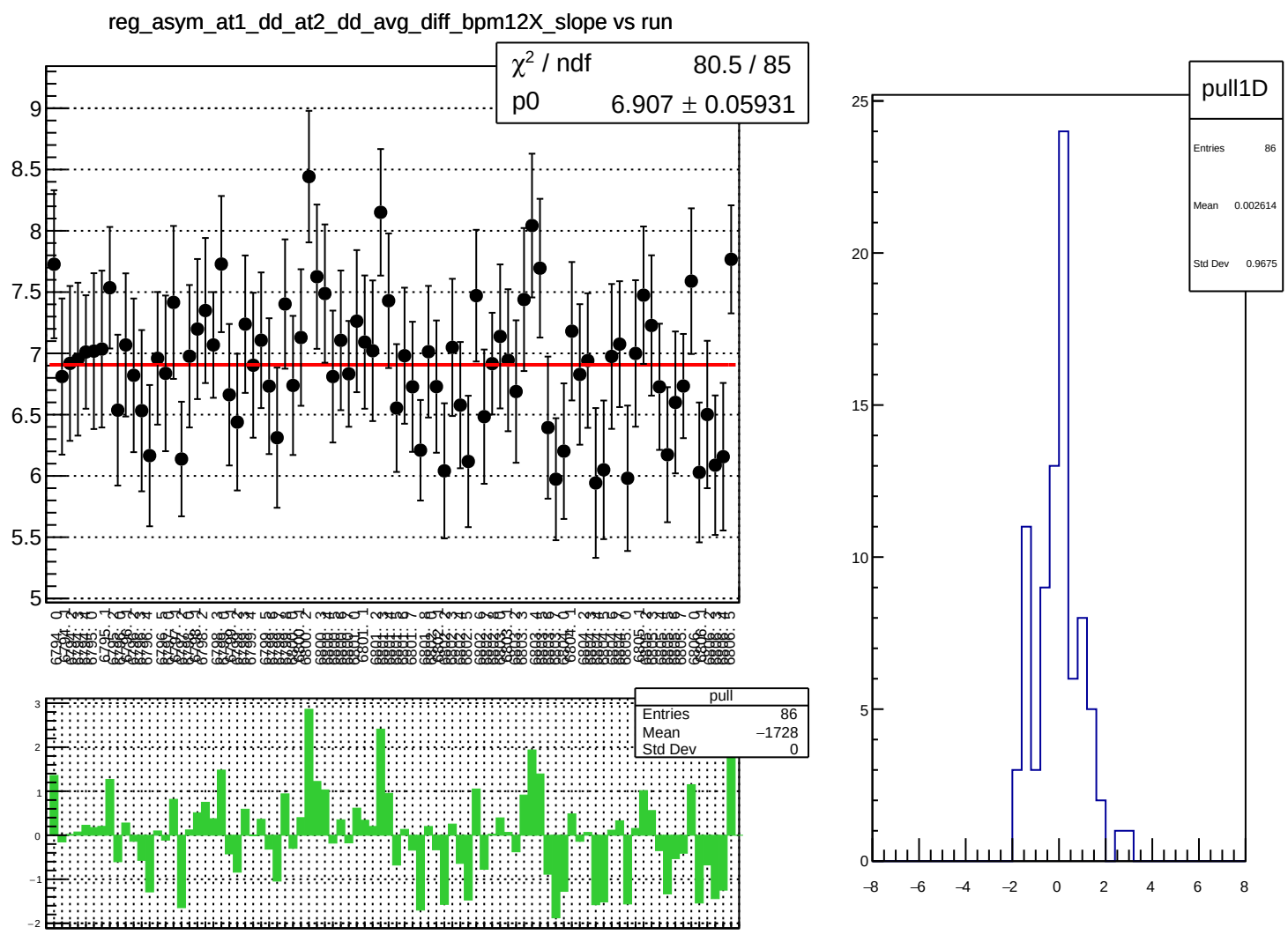

pull1D
Entries 86
Mean 0.006523
Std Dev 0.9889

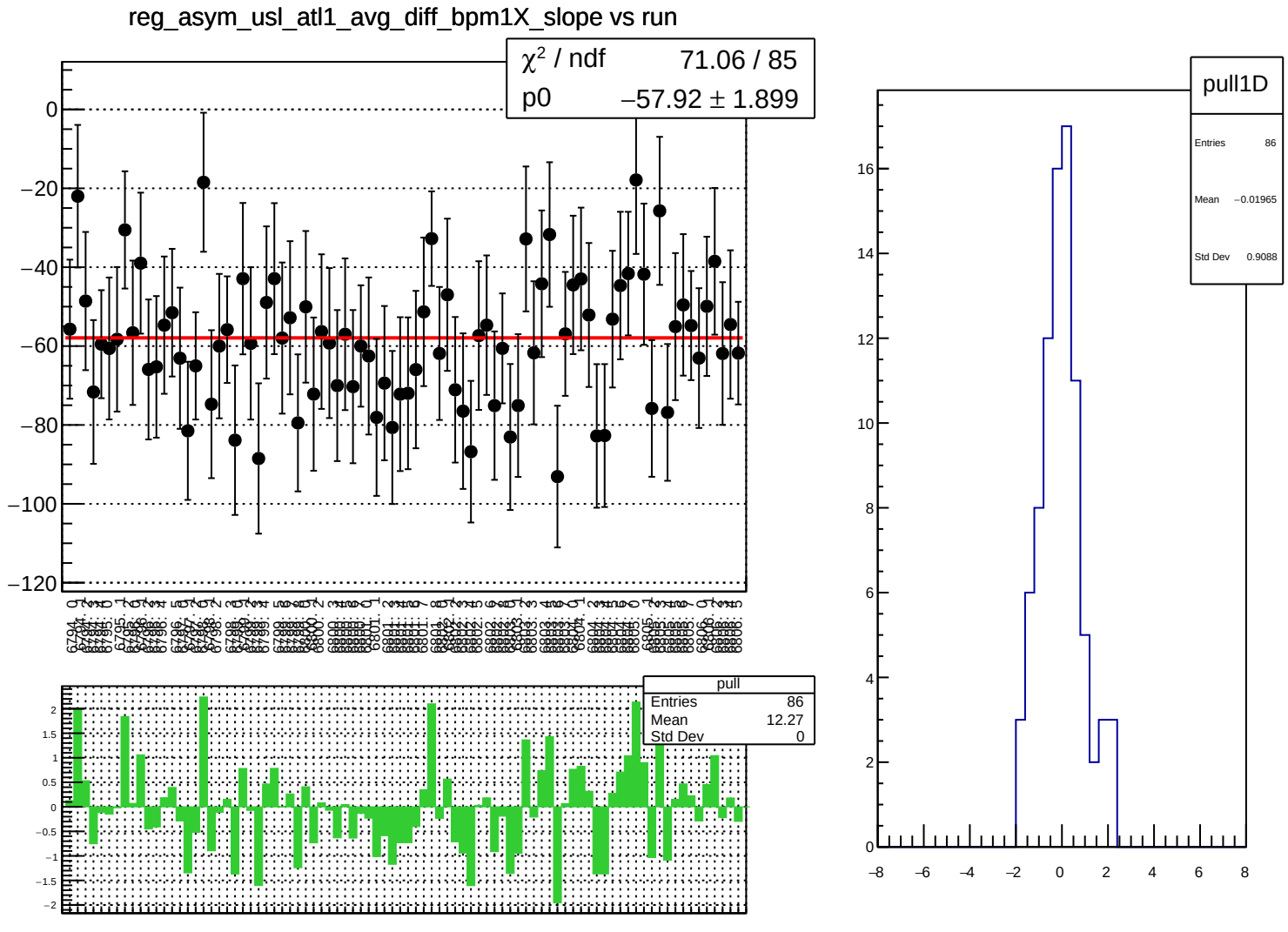

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.02 / 85
p0 43.74 ± 1.467
pull
Entries 86
Mean 309.5
Std Dev 0

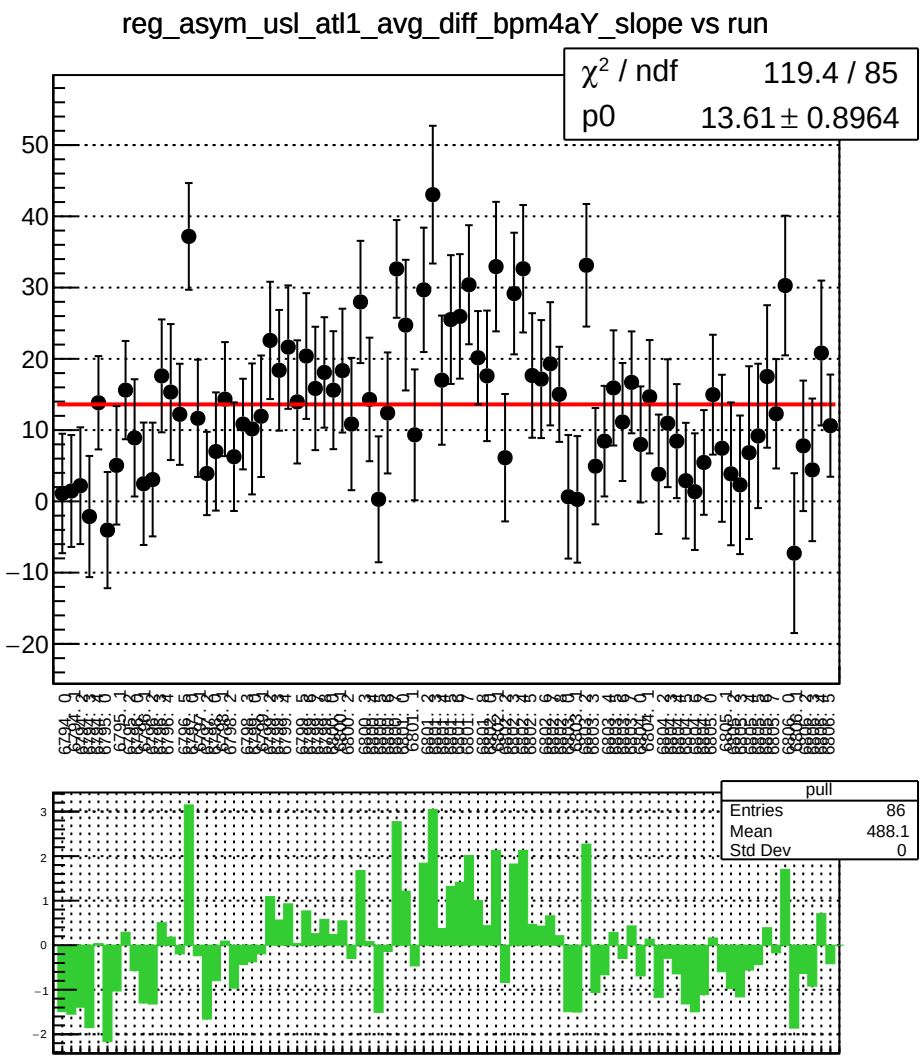

pull1D
Entries 86
Mean 0.00552
Std Dev 0.8762

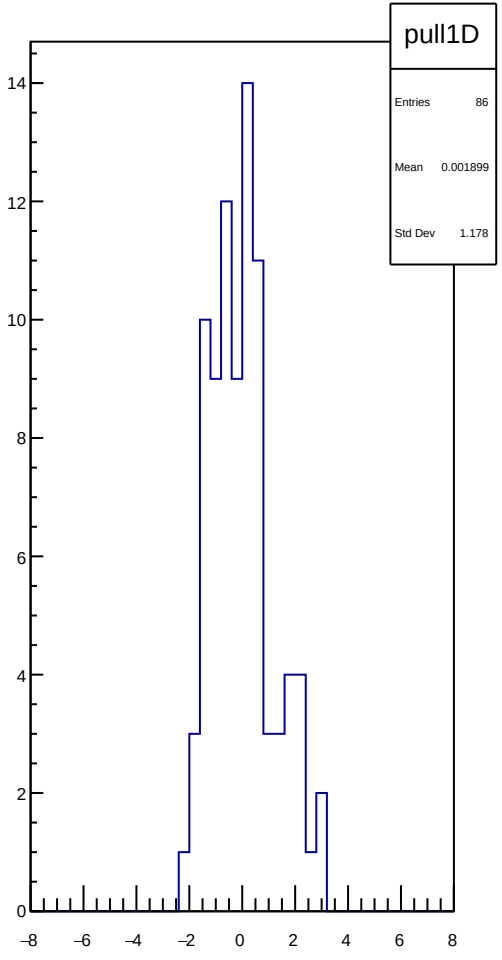

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.56 / 85
p0 −7.692 ± 1.03
pull
Entries 86
Mean −306.6
Std Dev 0

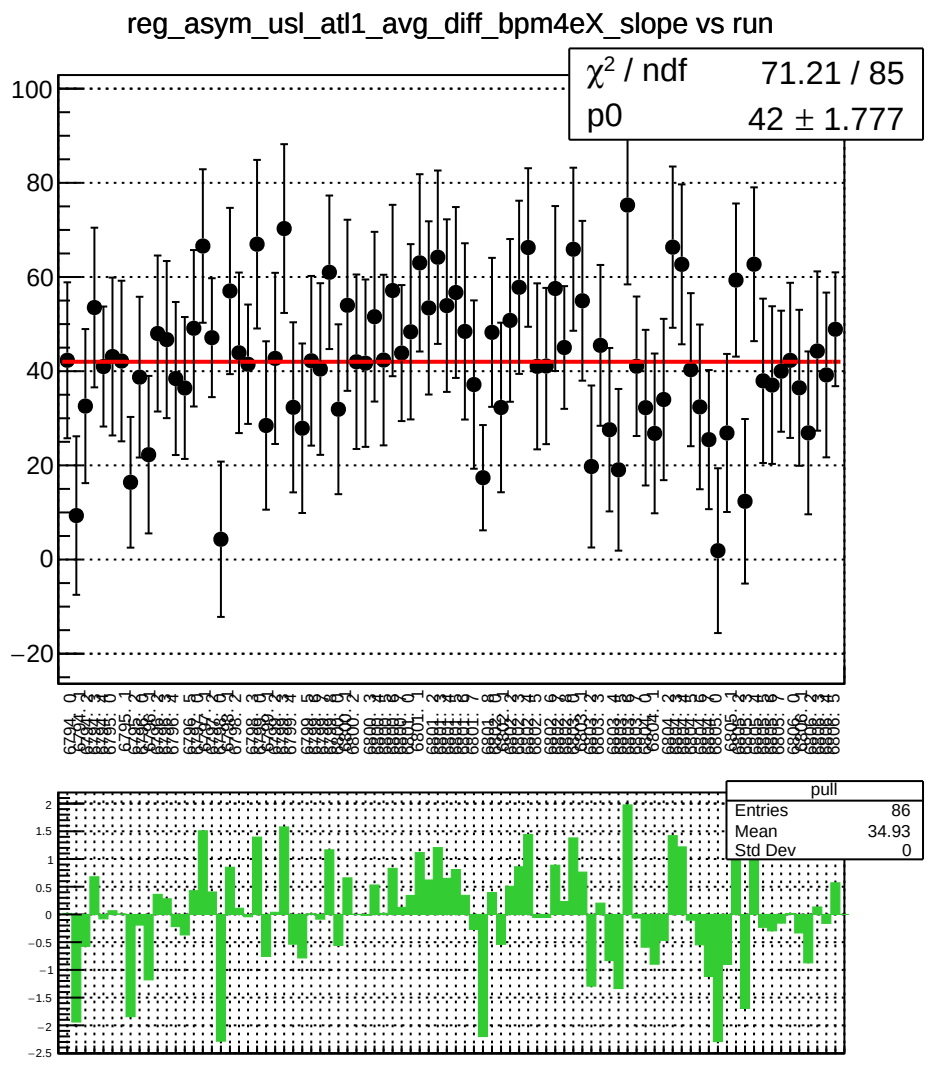

pull1D
Entries 86
Mean −0.005256
Std Dev 0.9496

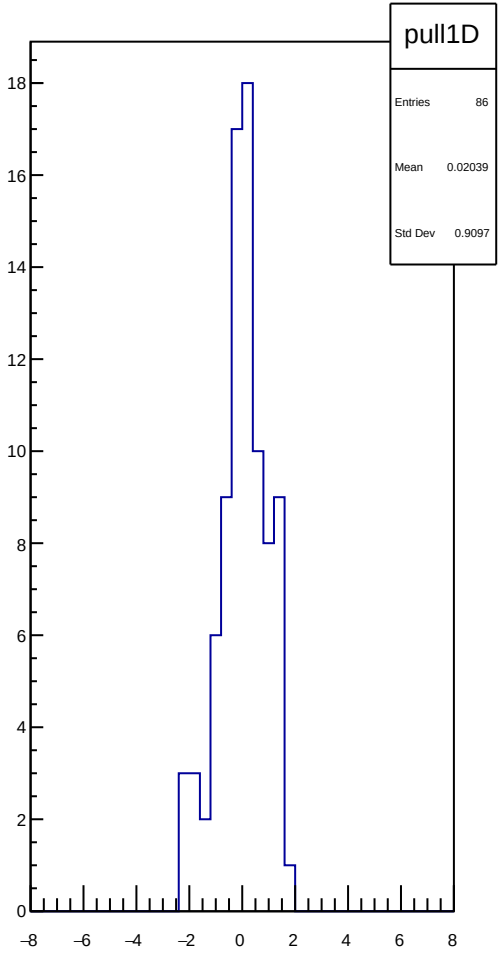

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 80.5 / 85
p0 6.907 ± 0.05931
pull
Entries 86
Mean −1728
Std Dev 0
pull1D
Entries 86
Mean 0.002614
Std Dev 0.9675

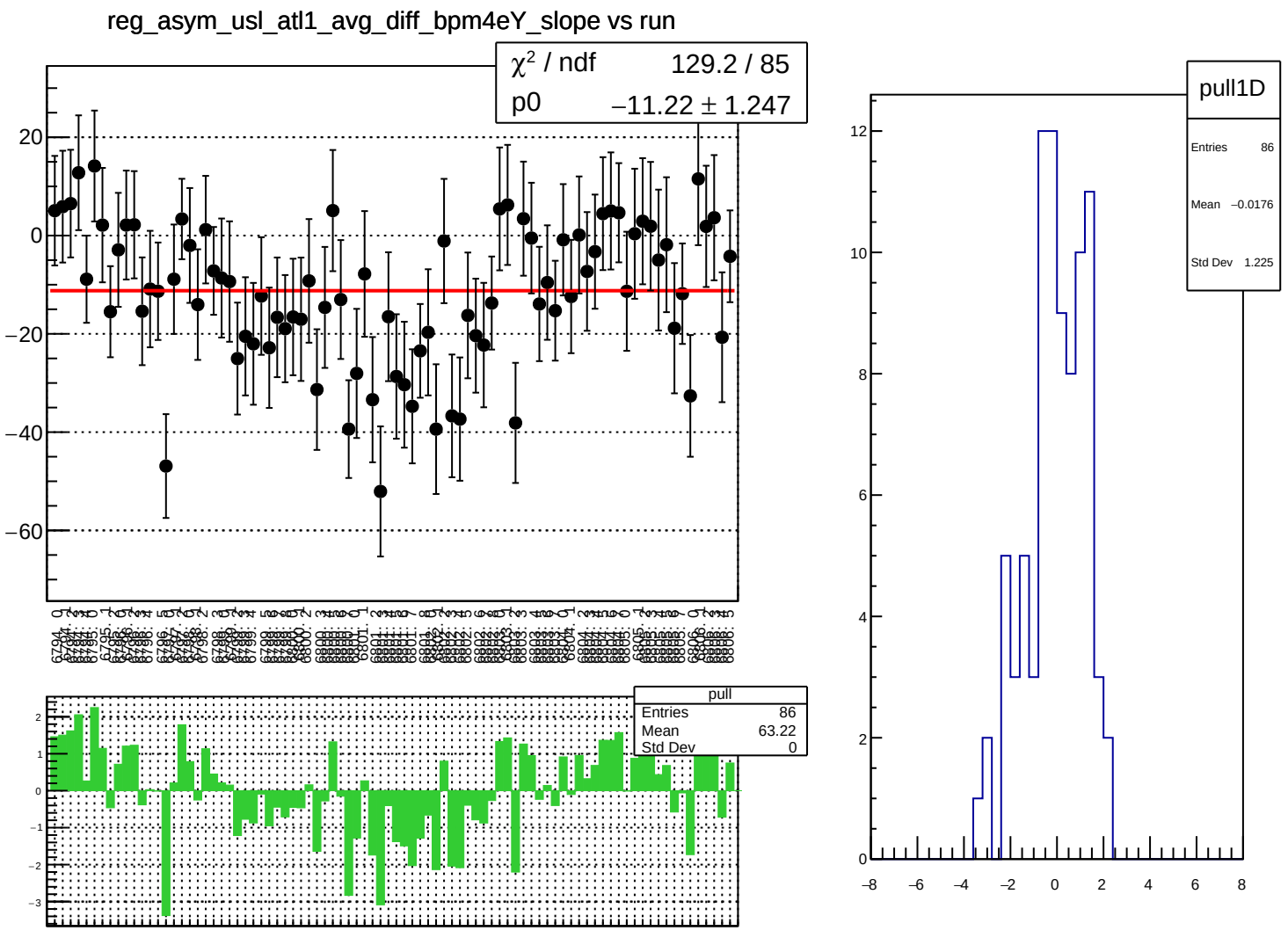

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 71.06 / 85
p0 −57.92 ± 1.899
pull
Entries 86
Mean 12.27
Std Dev 0
pull1D
Entries 86
Mean −0.01965
Std Dev 0.9088

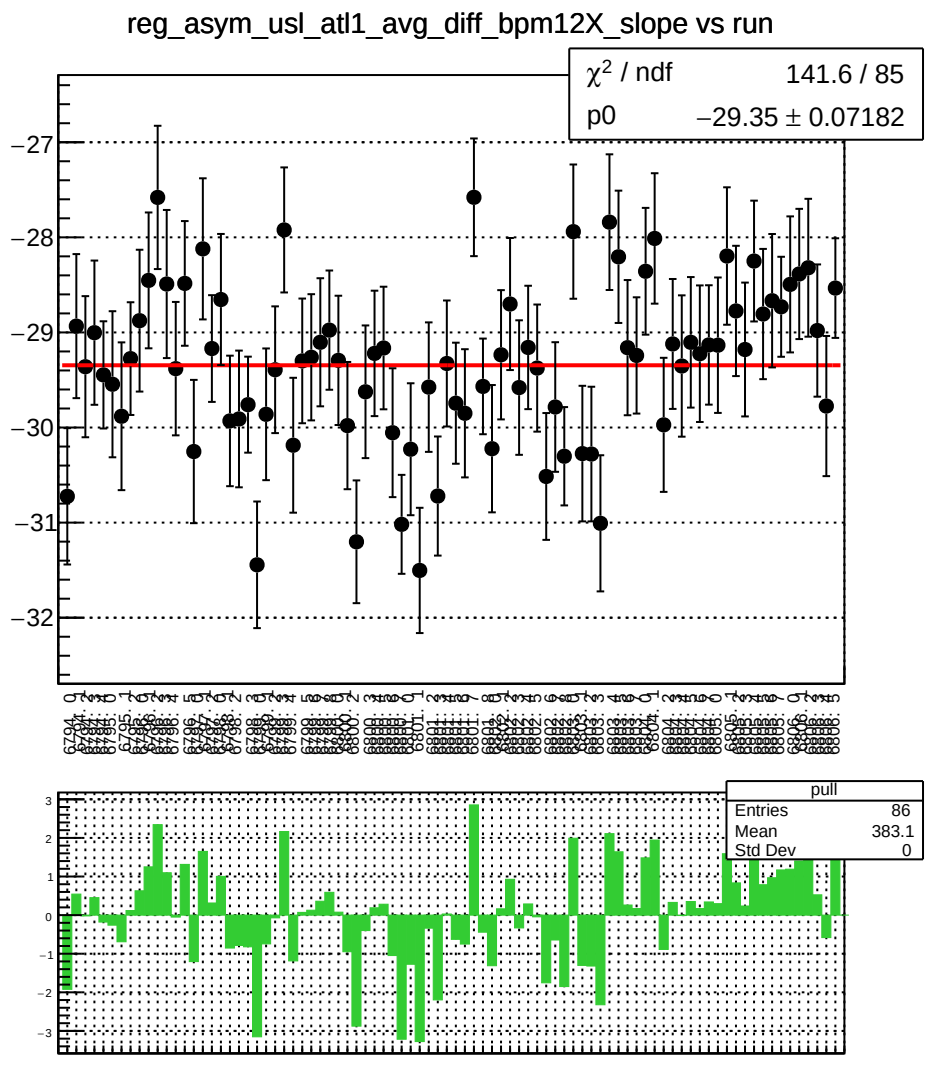

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 119.4 / 85
p0 13.61 ± 0.8964
pull
Entries 86
Mean 488.1
Std Dev 0

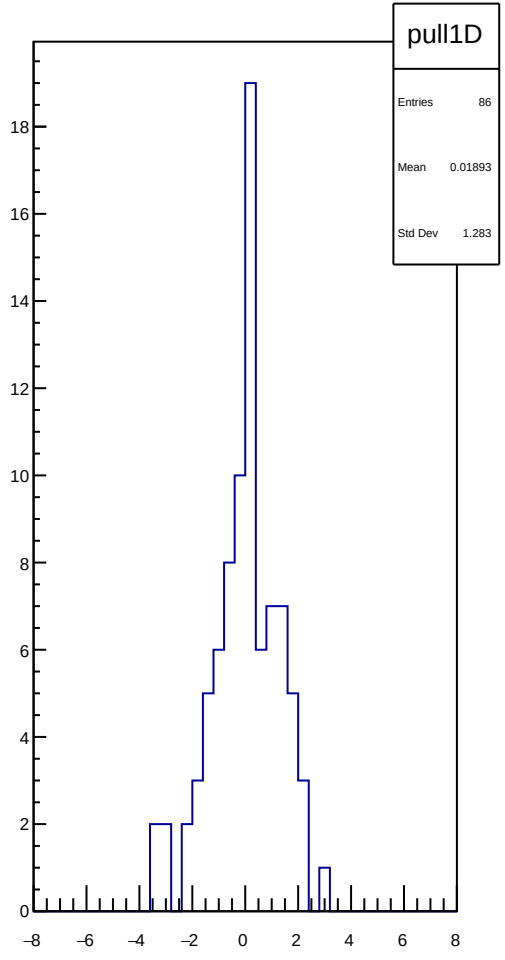

pull1D
Entries 86
Mean 0.001899
Std Dev 1.178

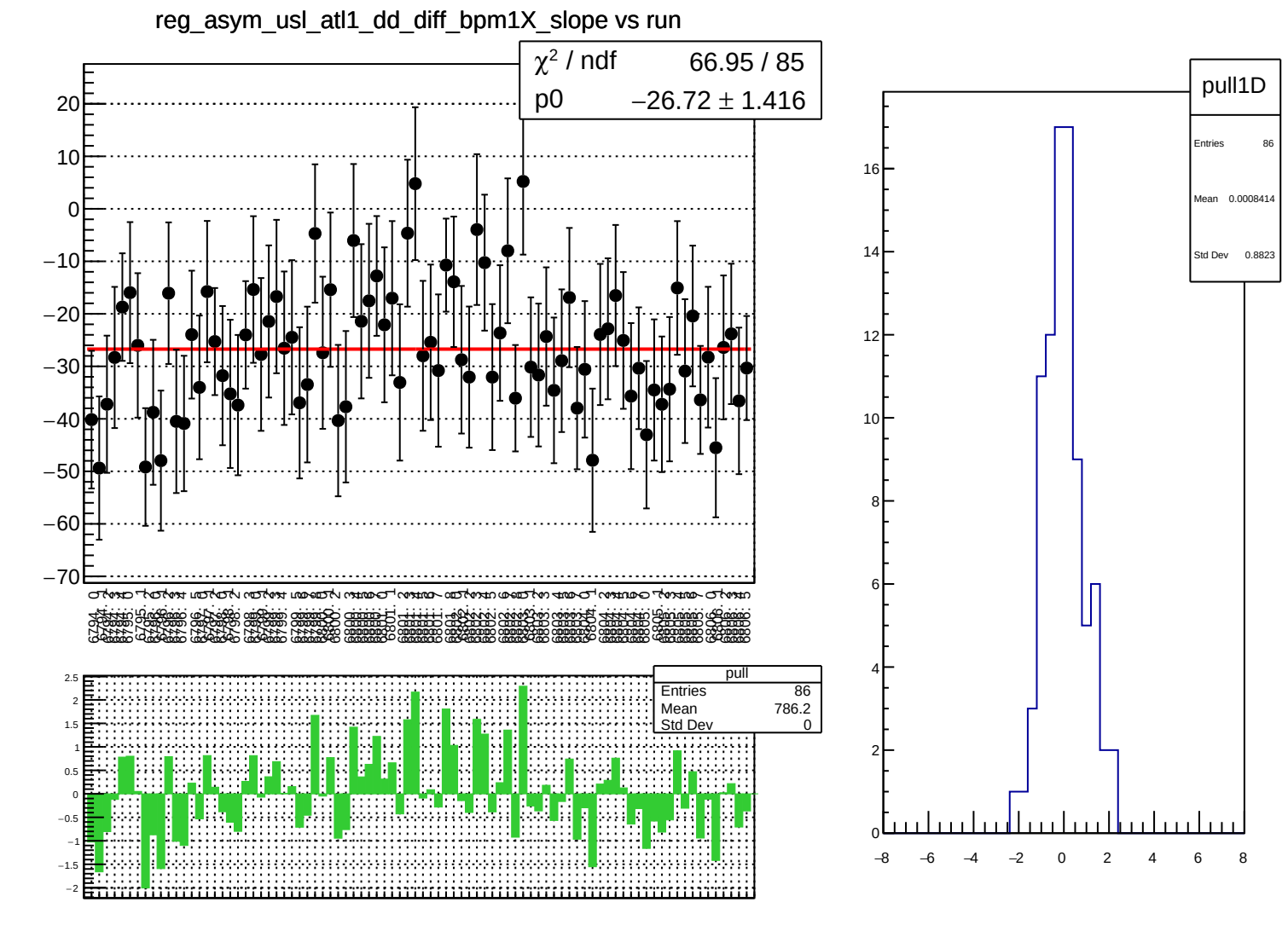

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 71.21 / 85
p0 42 ± 1.777
pull
Entries 86
Mean 34.93
Std Dev 0

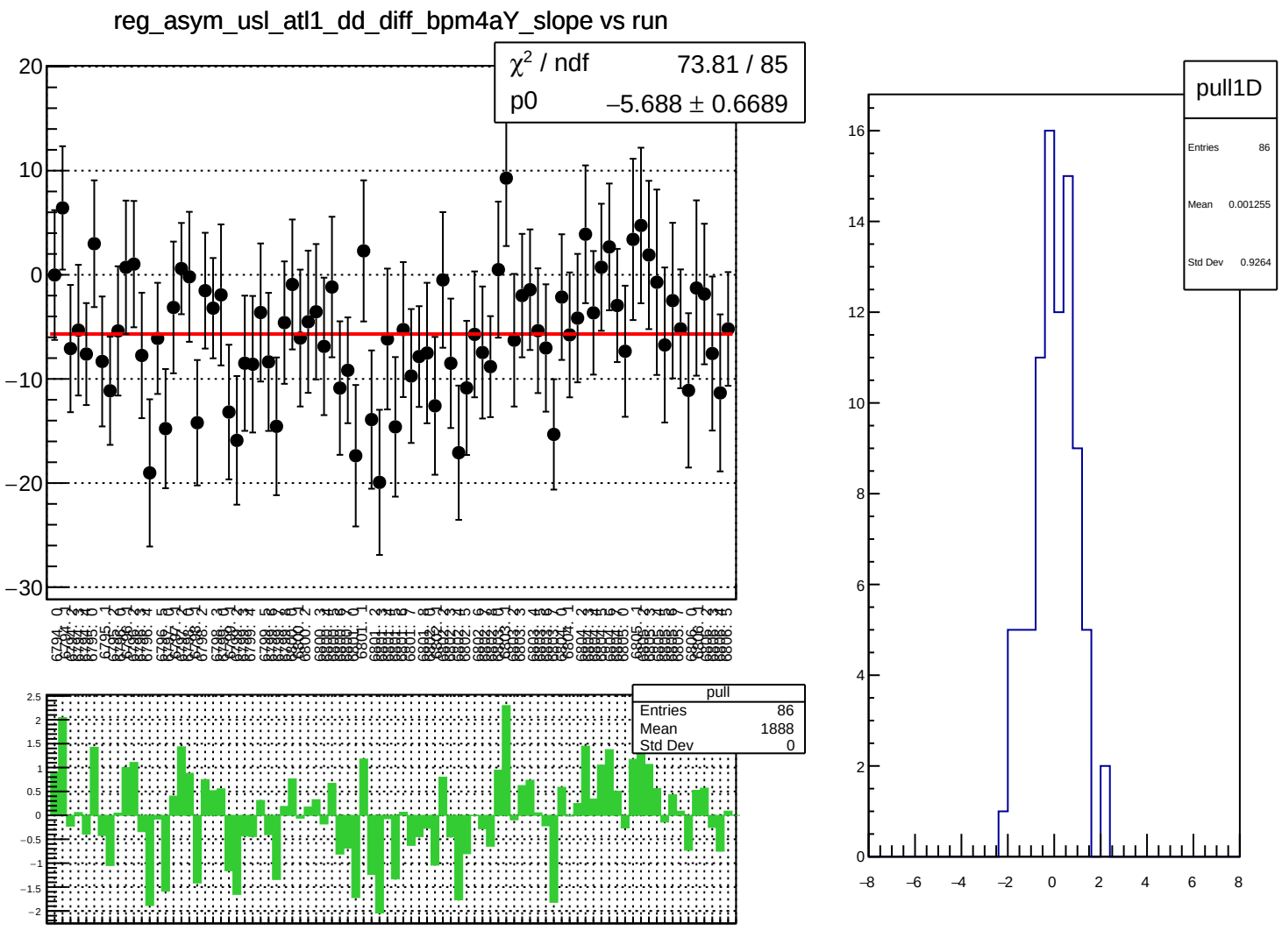

pull1D
Entries 86
Mean 0.02039
Std Dev 0.9097

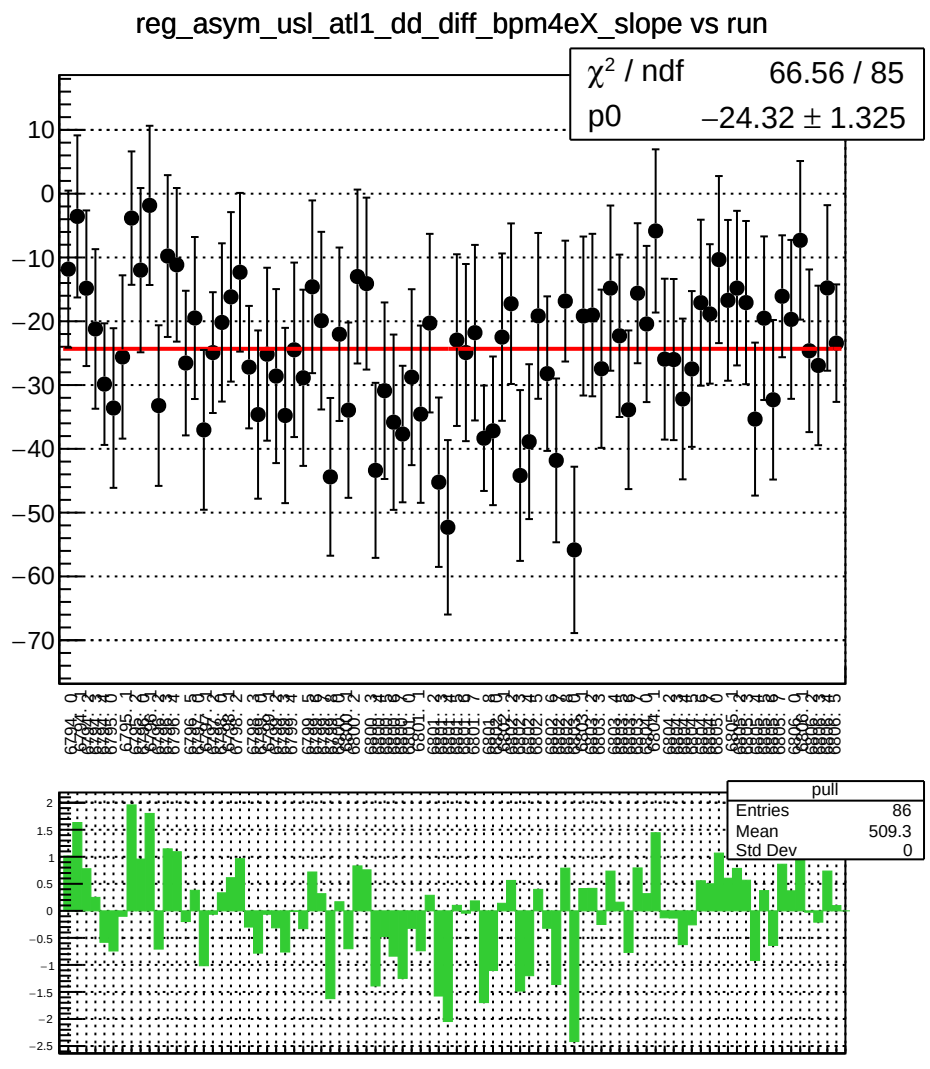

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 129.2 / 85
p0 −11.22 ± 1.247
pull
Entries 86
Mean 63.22
Std Dev 0
pull1D
Entries 86
Mean −0.0176
Std Dev 1.225

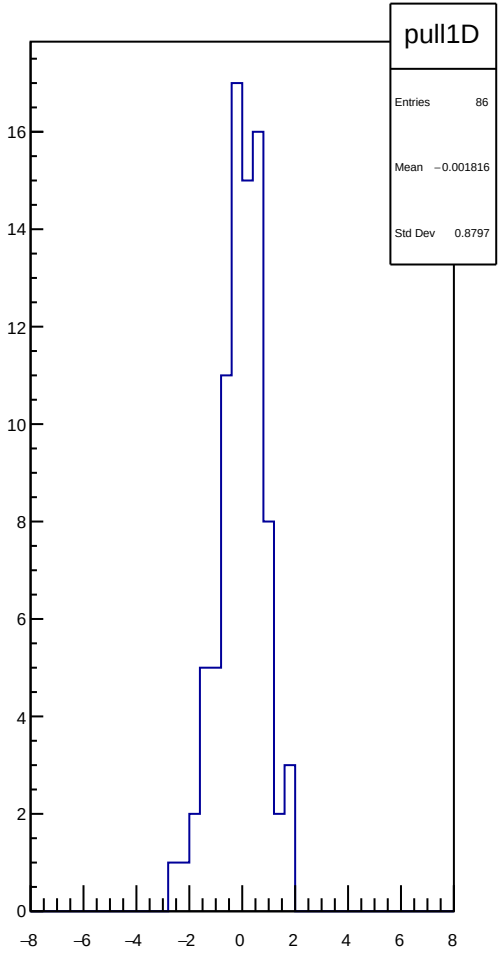

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 141.6 / 85
p0 −29.35 ± 0.07182
−27
−28
−29
−30
−31
−32
pull
Entries 86
Mean 383.1
Std Dev 0
3
2
1
0
−1
−2
−3

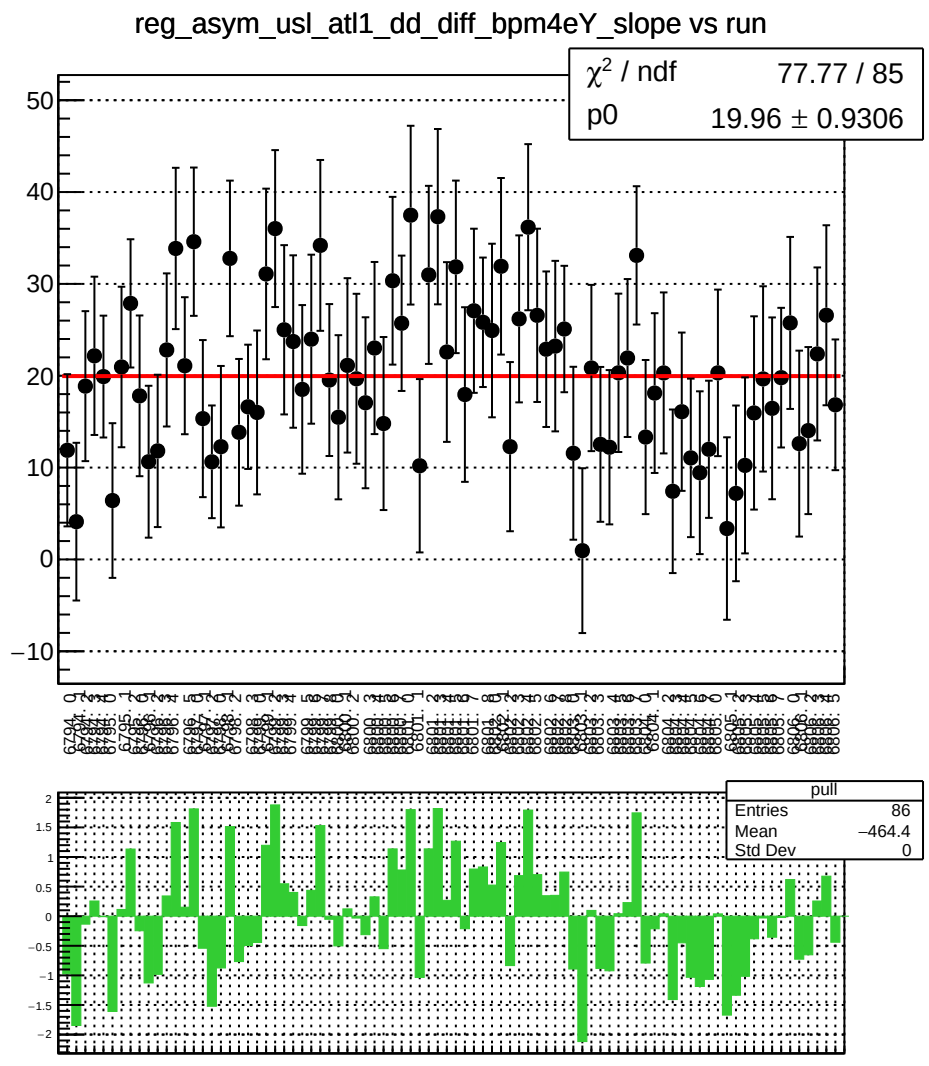

pull1D
Entries 86
Mean 0.01893
Std Dev 1.283
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

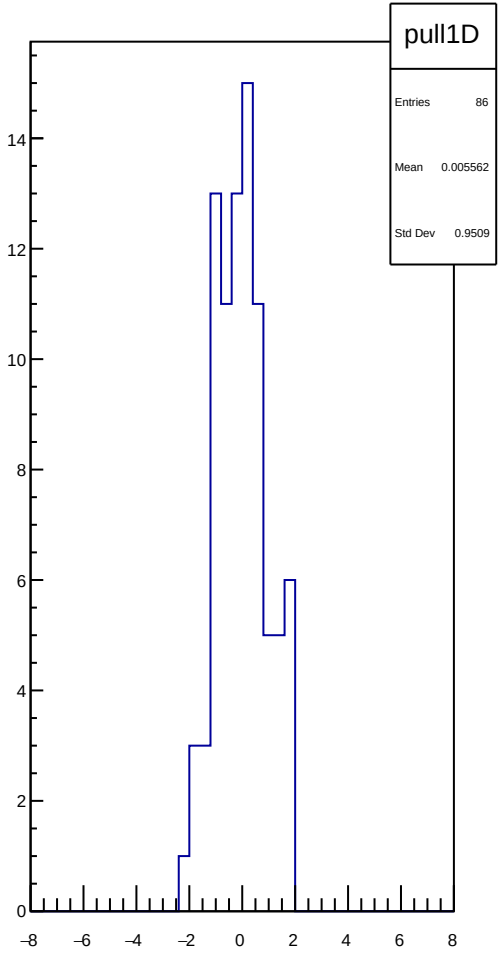

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.95 / 85
p0 −26.72 ± 1.416
pull
Entries 86
Mean 786.2
Std Dev 0
pull1D
Entries 86
Mean 0.0008414
Std Dev 0.8823

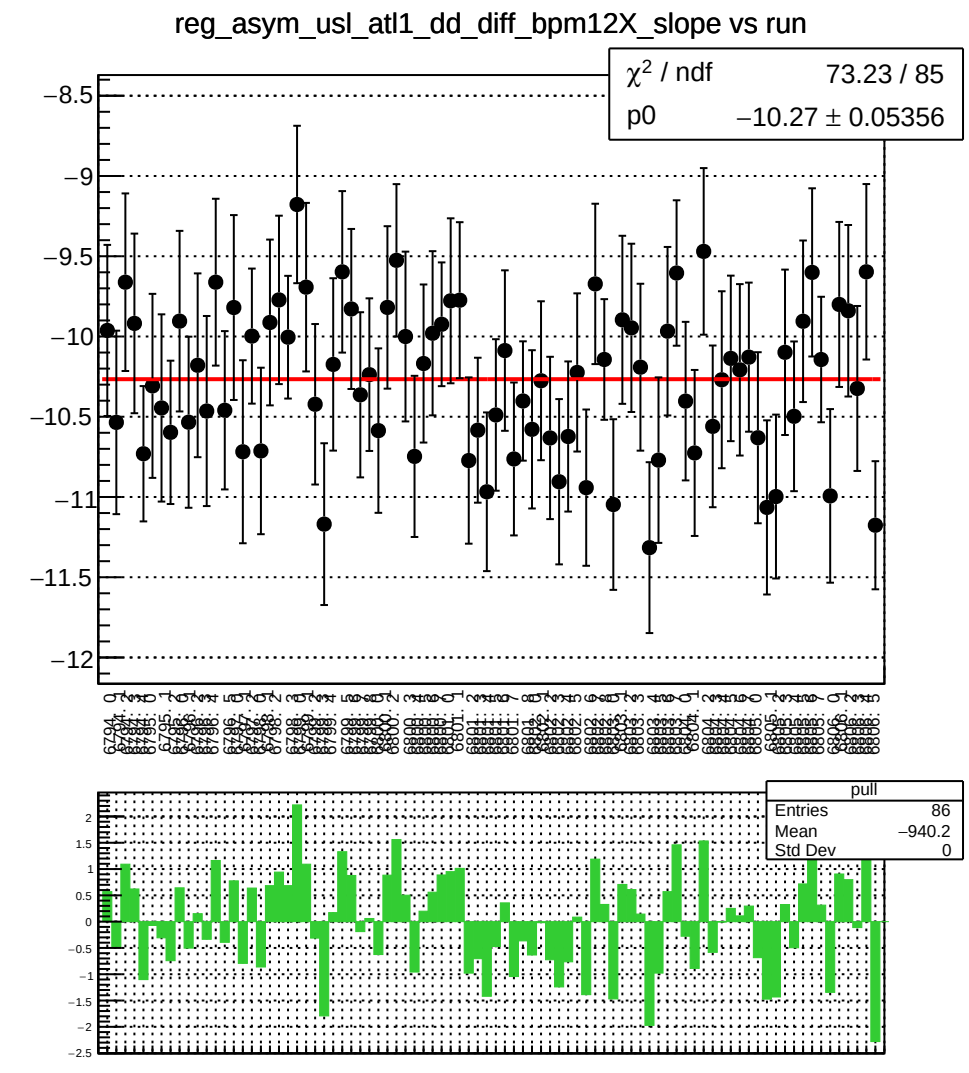

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.81 / 85
p0 −5.688 ± 0.6689
pull
Entries 86
Mean 1888
Std Dev 0
pull1D
Entries 86
Mean 0.001255
Std Dev 0.9264

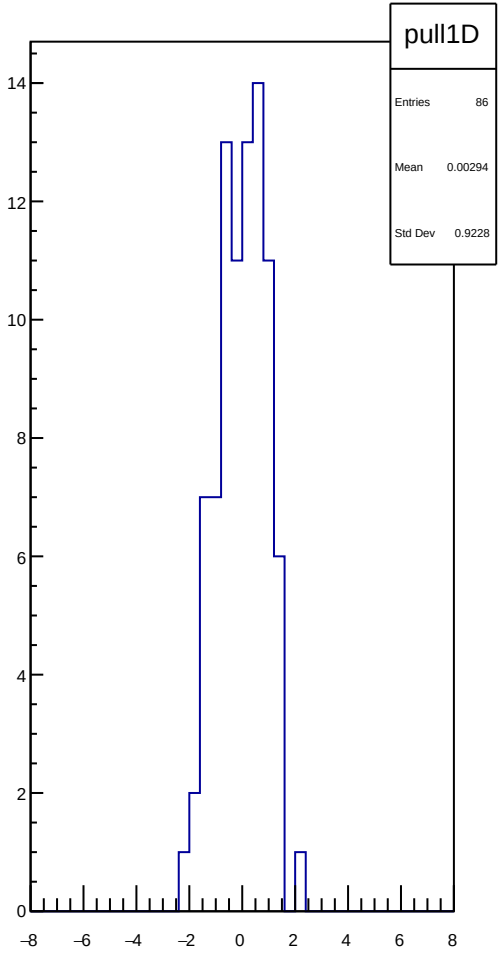

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 66.56 / 85
p0 −24.32 ± 1.325
pull
Entries 86
Mean 509.3
Std Dev 0

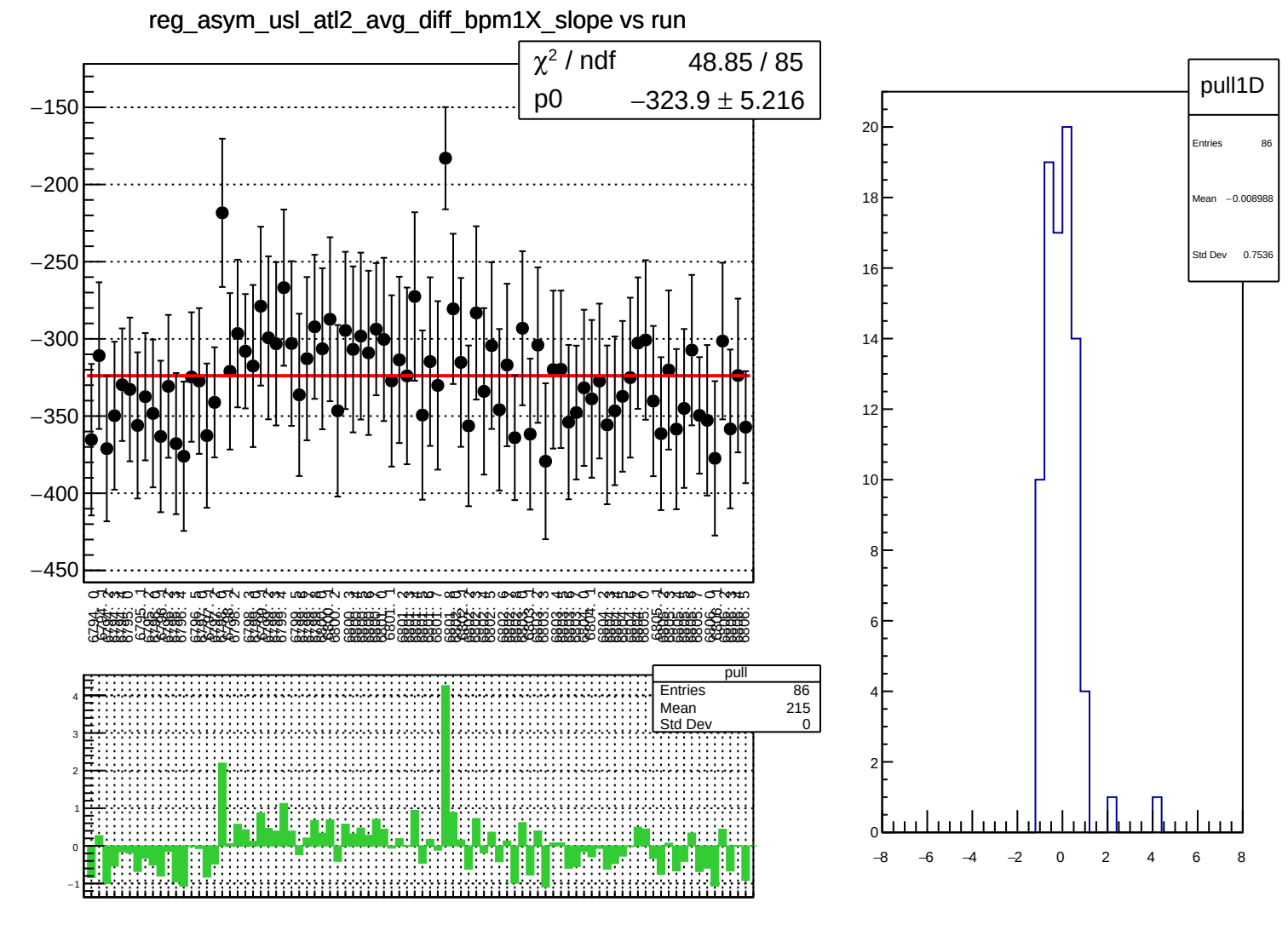

pull1D
Entries 86
Mean −0.001816
Std Dev 0.8797

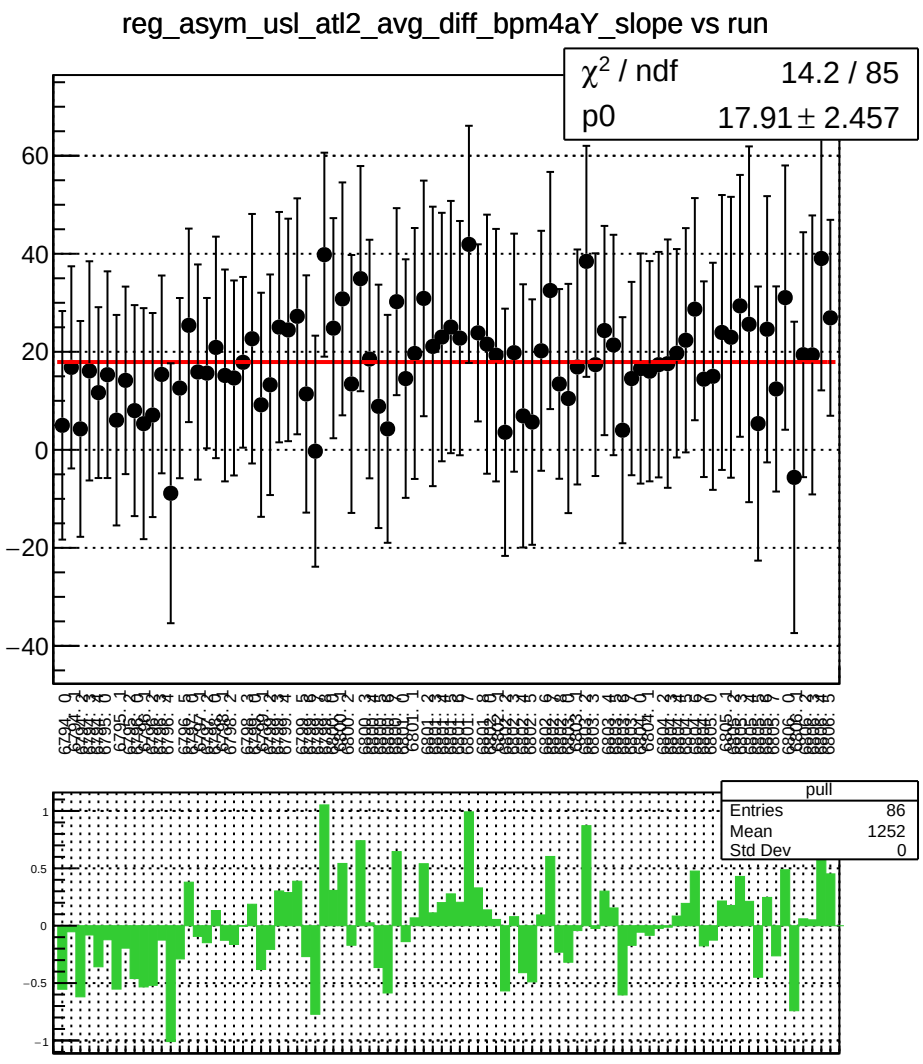

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 77.77 / 85
p0 19.96 ± 0.9306
pull
Entries 86
Mean −464.4
Std Dev 0

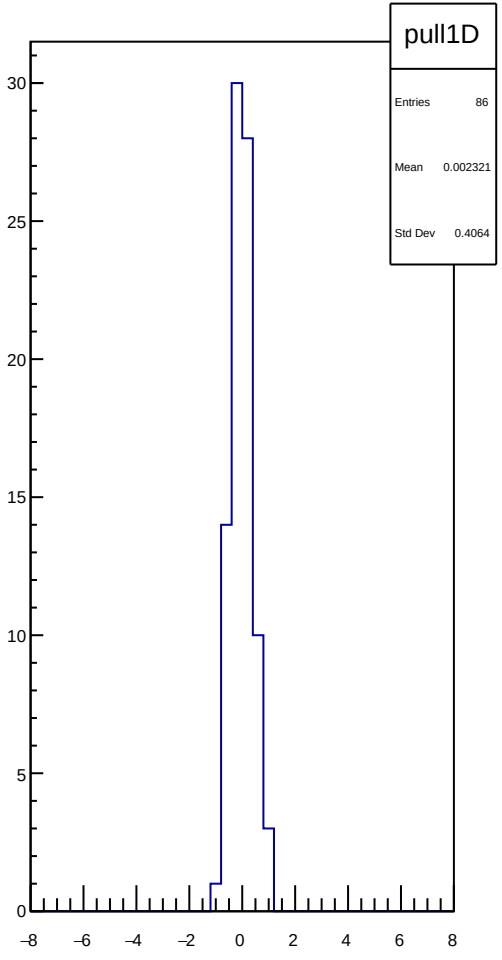

pull1D
Entries 86
Mean 0.005562
Std Dev 0.9509

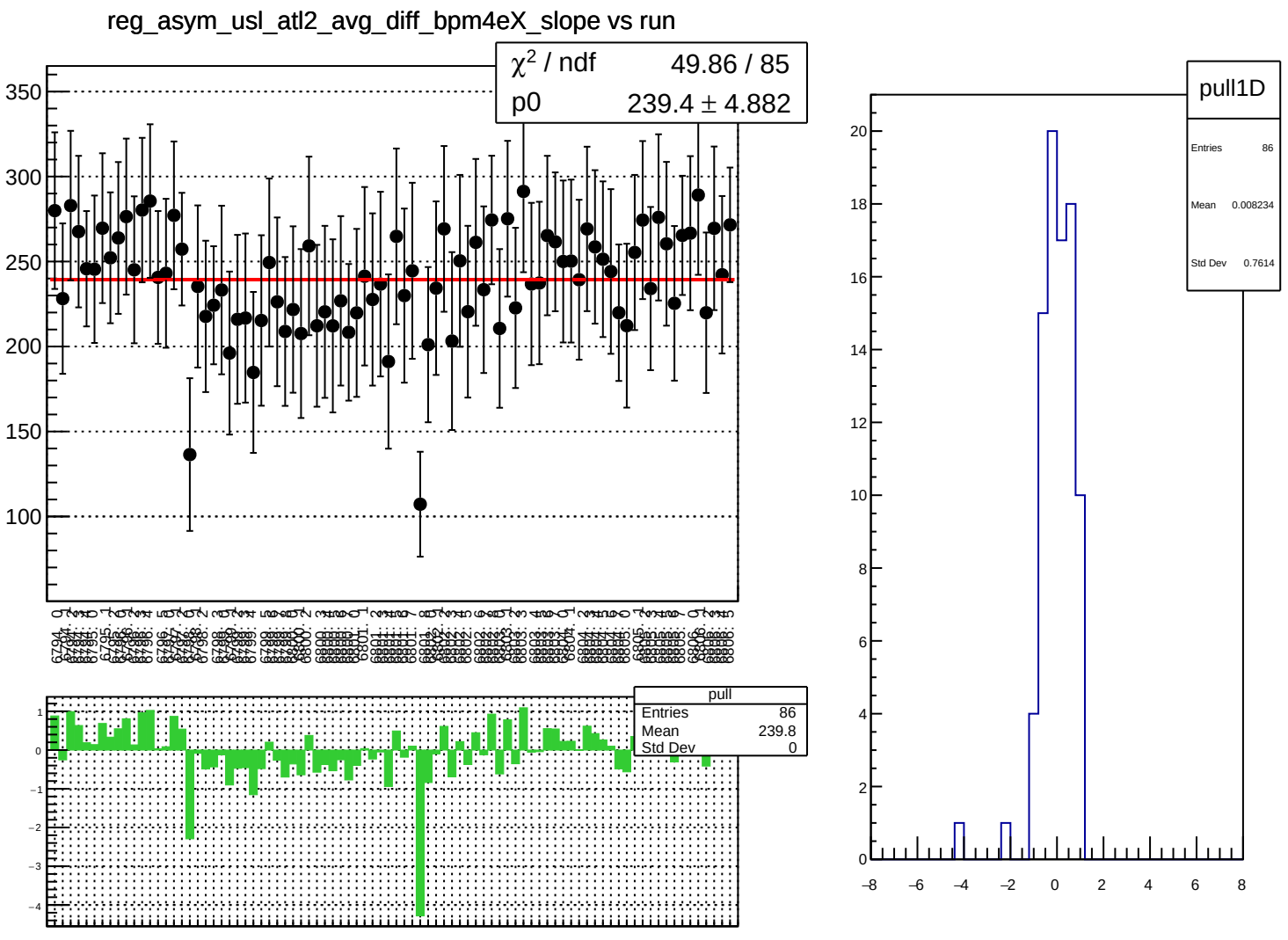

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 73.23 / 85
p0 −10.27 ± 0.05356
pull
Entries 86
Mean −940.2
Std Dev 0

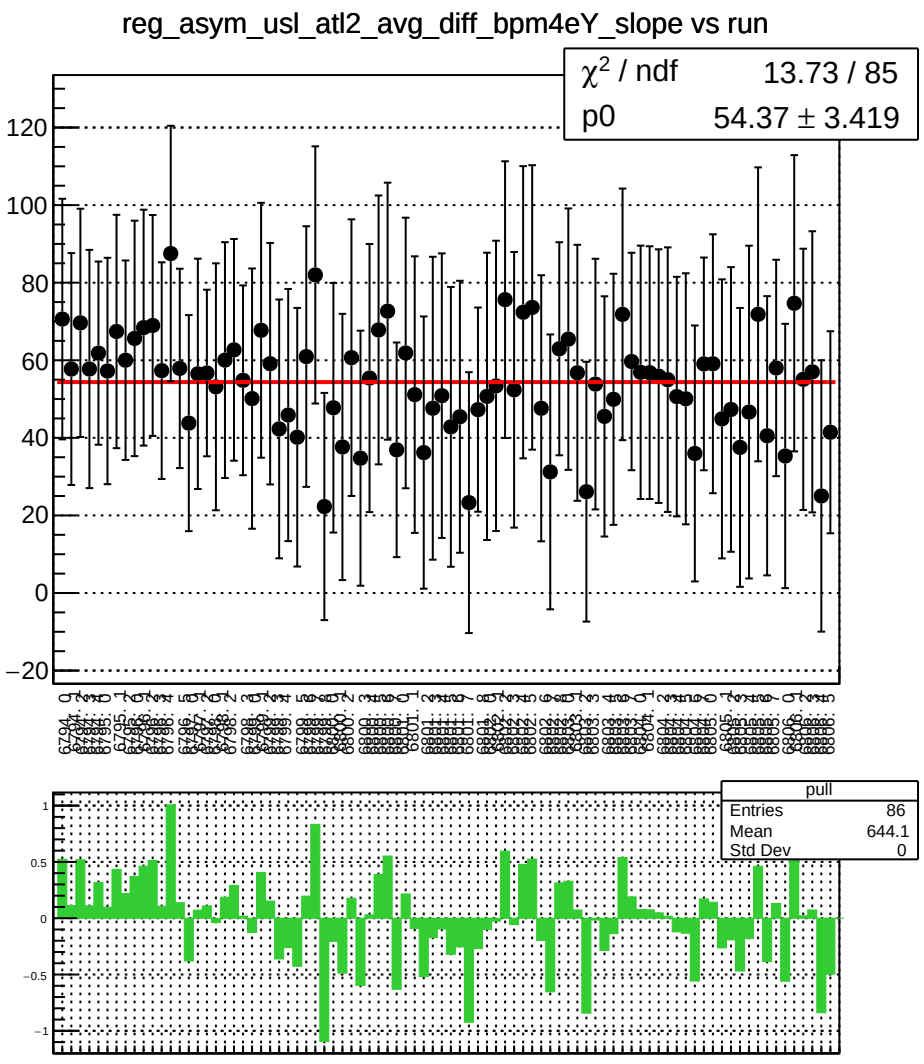

pull1D
Entries 86
Mean 0.00294
Std Dev 0.9228

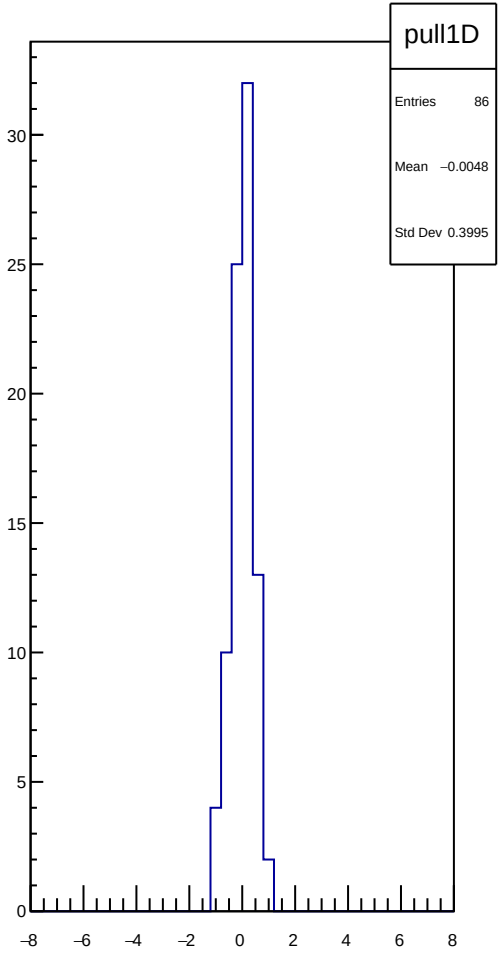

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 48.85 / 85
p0 −323.9 ± 5.216
pull
Entries 86
Mean 215
Std Dev 0
pull1D
Entries 86
Mean −0.008988
Std Dev 0.7536

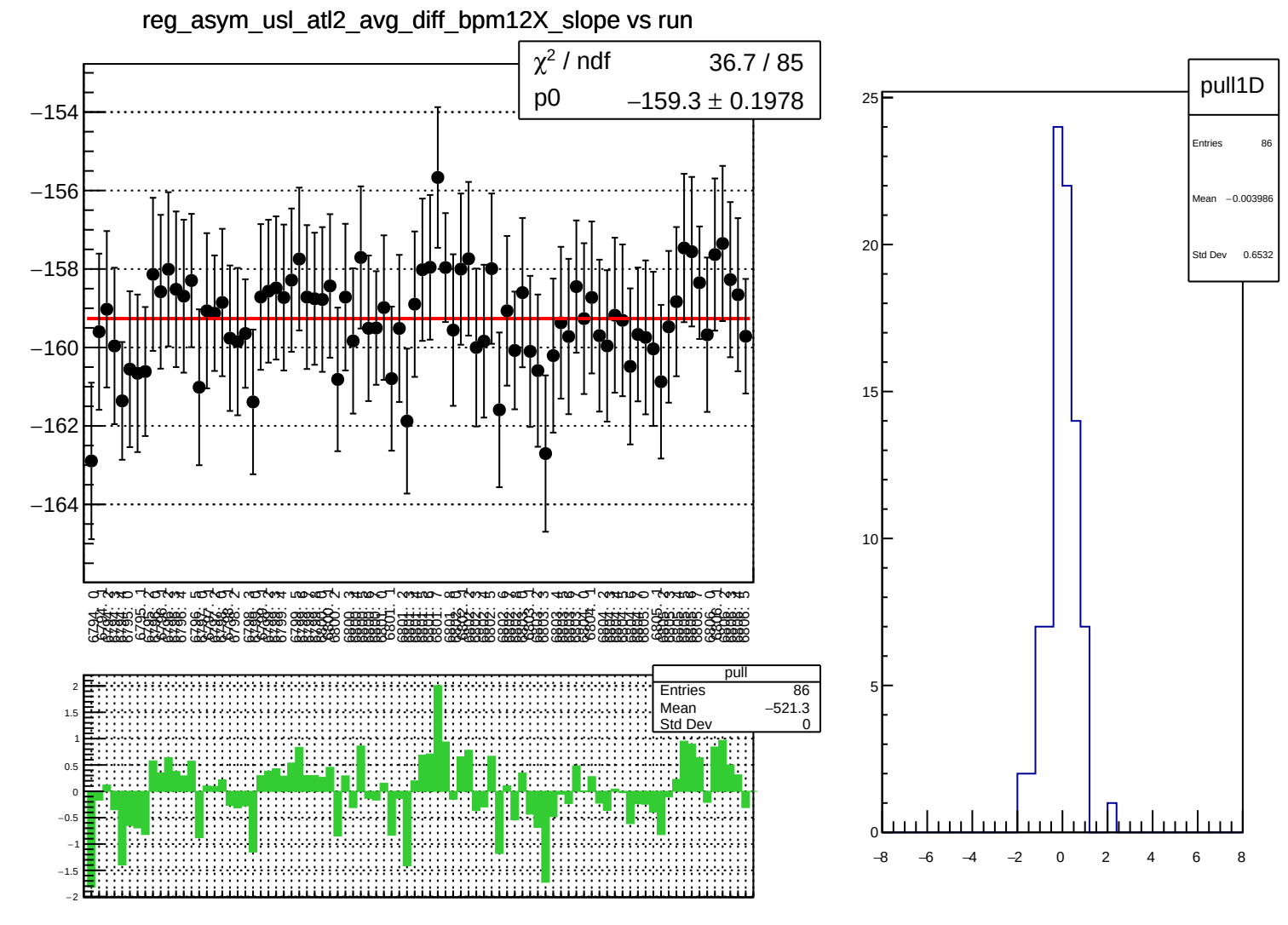

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.2 / 85
p0 17.91 ± 2.457
pull
Entries 86
Mean 1252
Std Dev 0

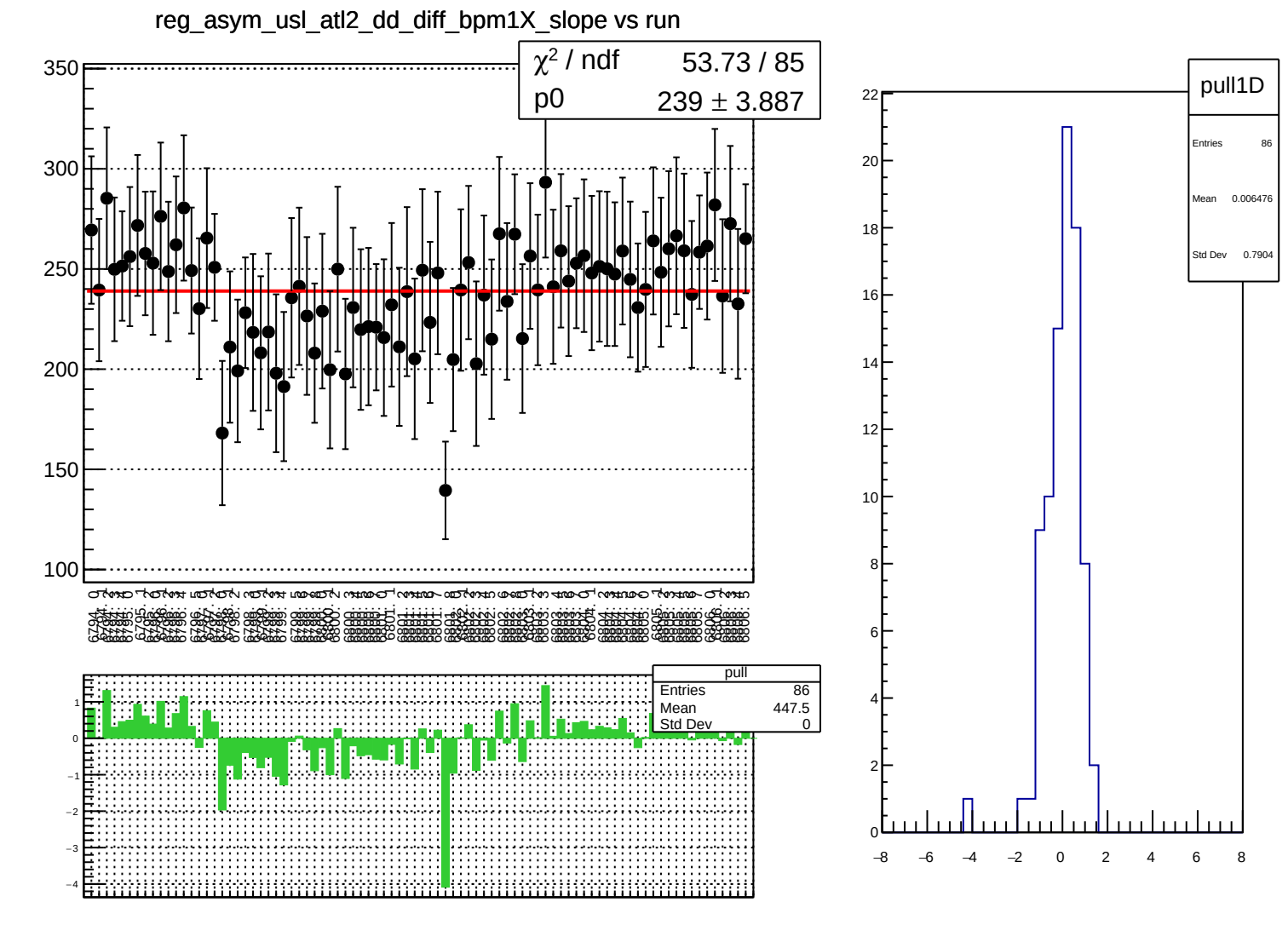

pull1D
Entries 86
Mean 0.002321
Std Dev 0.4064

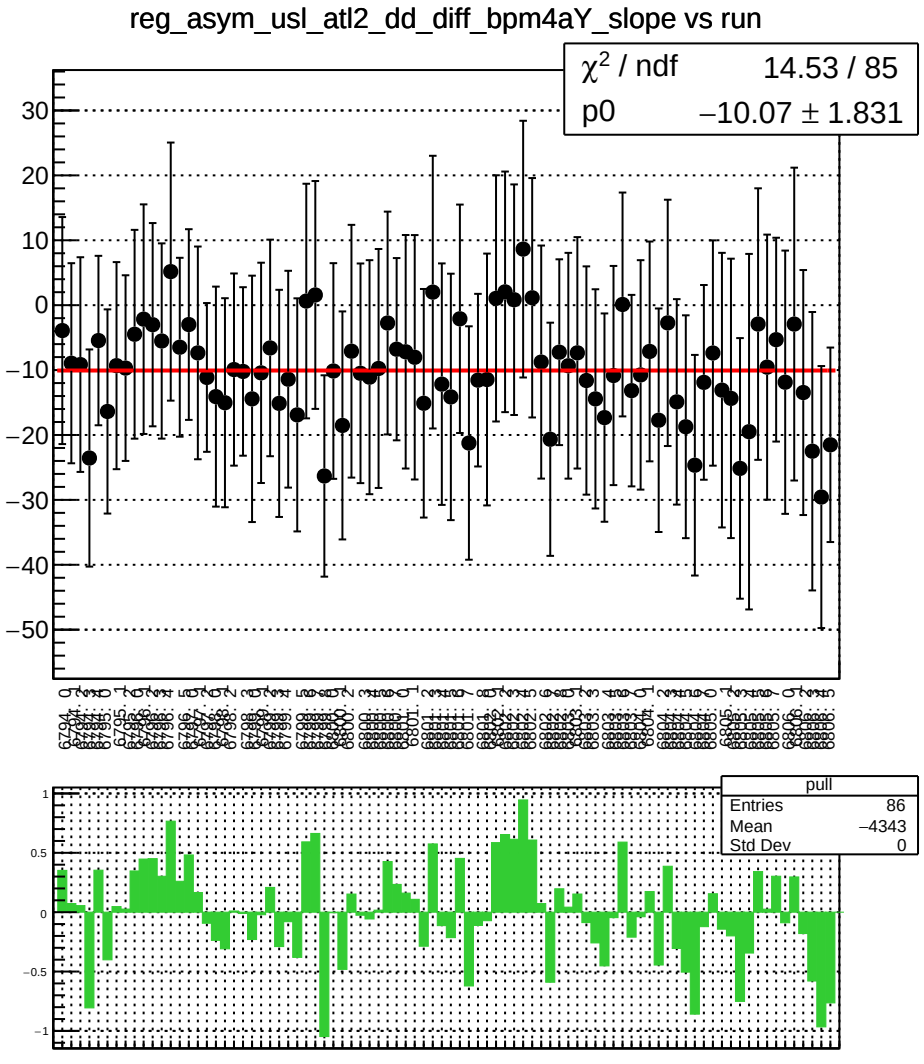

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.86 / 85
p0 239.4 ± 4.882
pull
Entries 86
Mean 239.8
Std Dev 0
pull1D
Entries 86
Mean 0.008234
Std Dev 0.7614

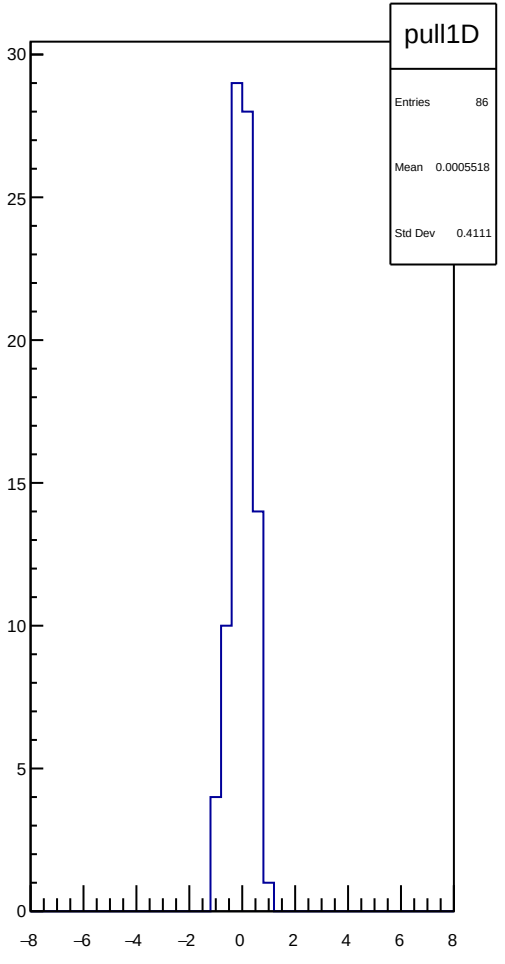

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.73 / 85
p0 54.37 ± 3.419
pull
Entries 86
Mean 644.1
Std Dev 0

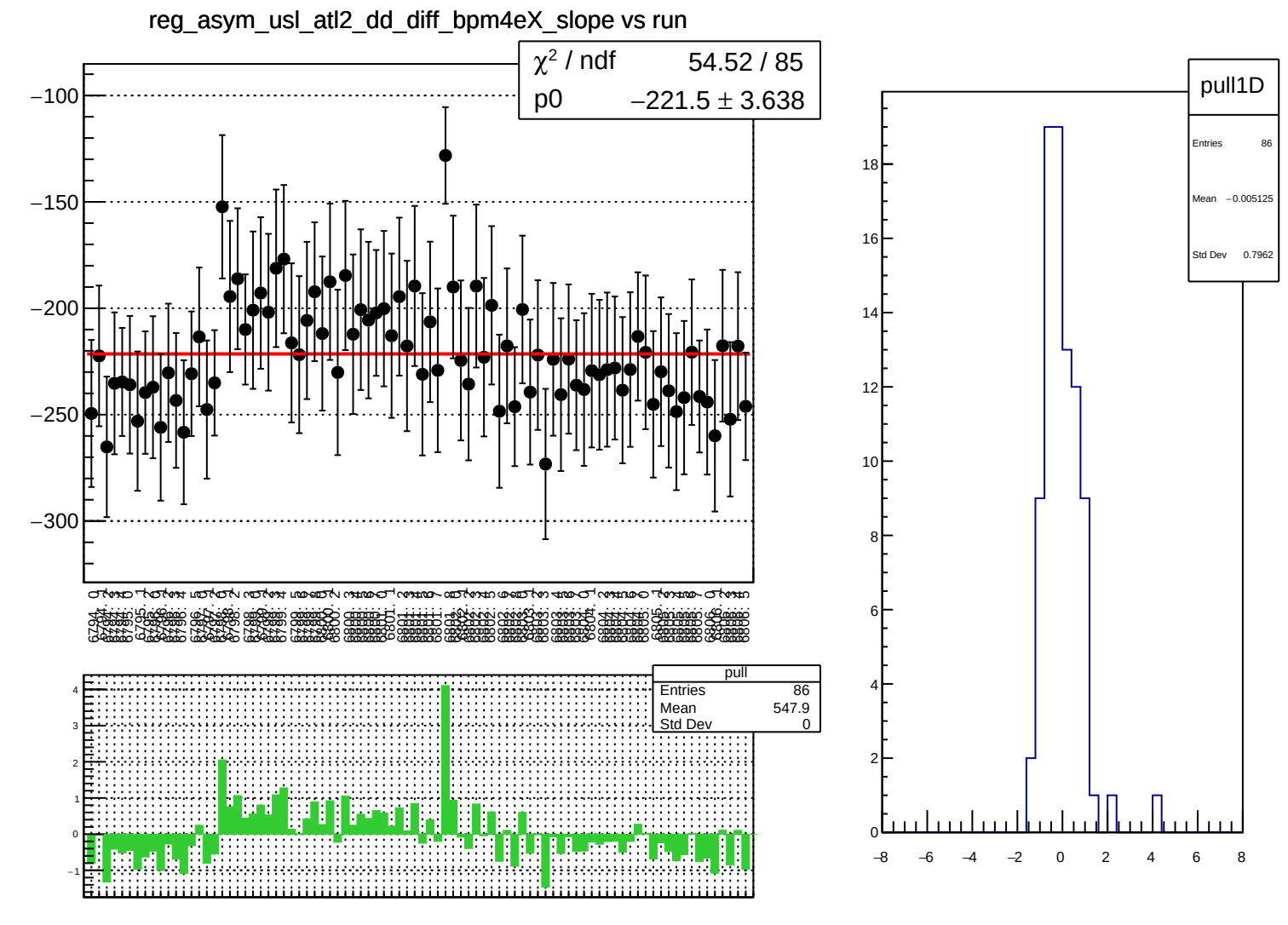

pull1D
Entries 86
Mean −0.0048
Std Dev 0.3995

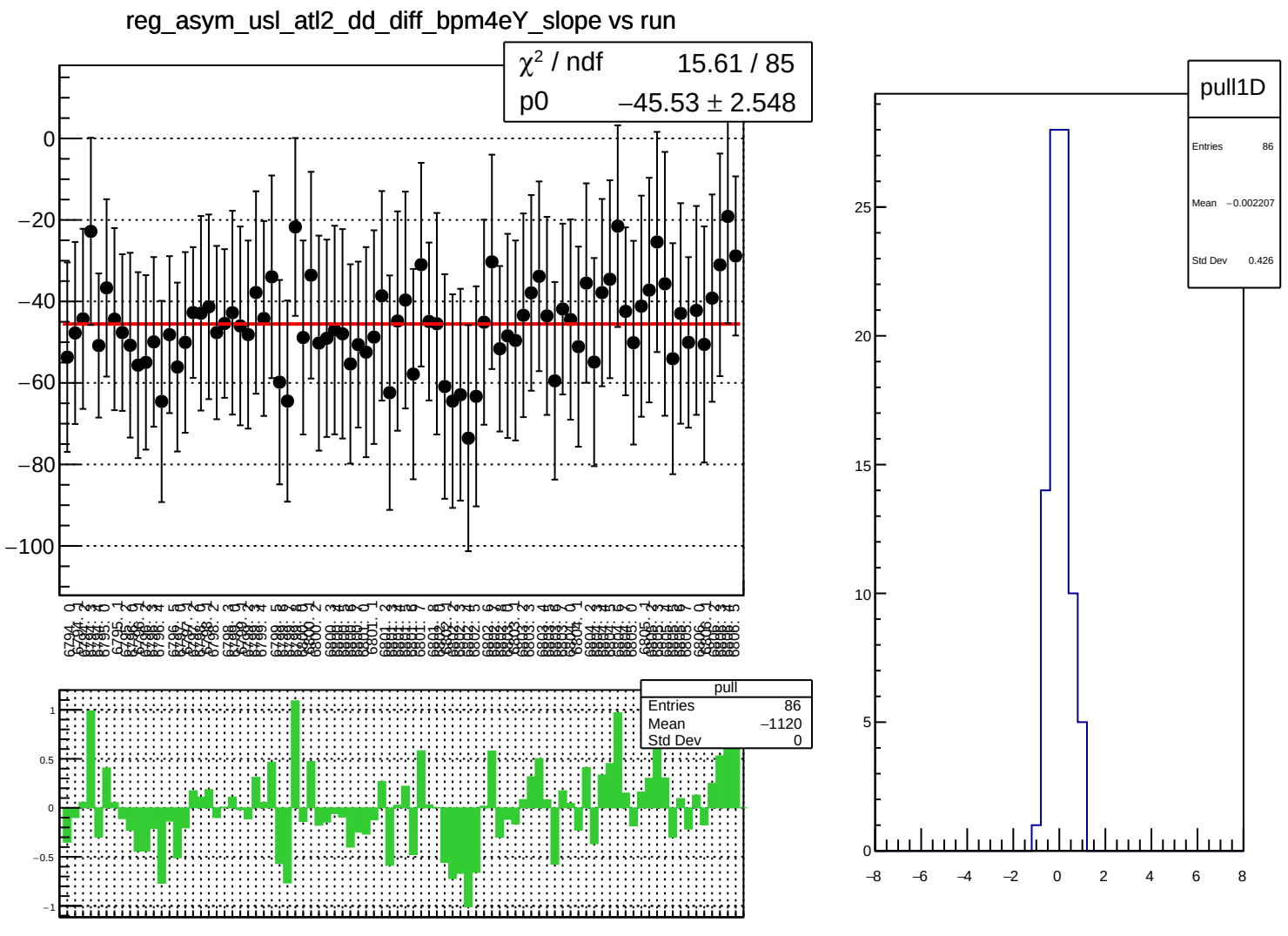

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 36.7 / 85
p0 −159.3 ± 0.1978
−154
−156
−158
−160
−162
−164
pull
Entries 86
Mean −521.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.003986
Std Dev 0.6532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

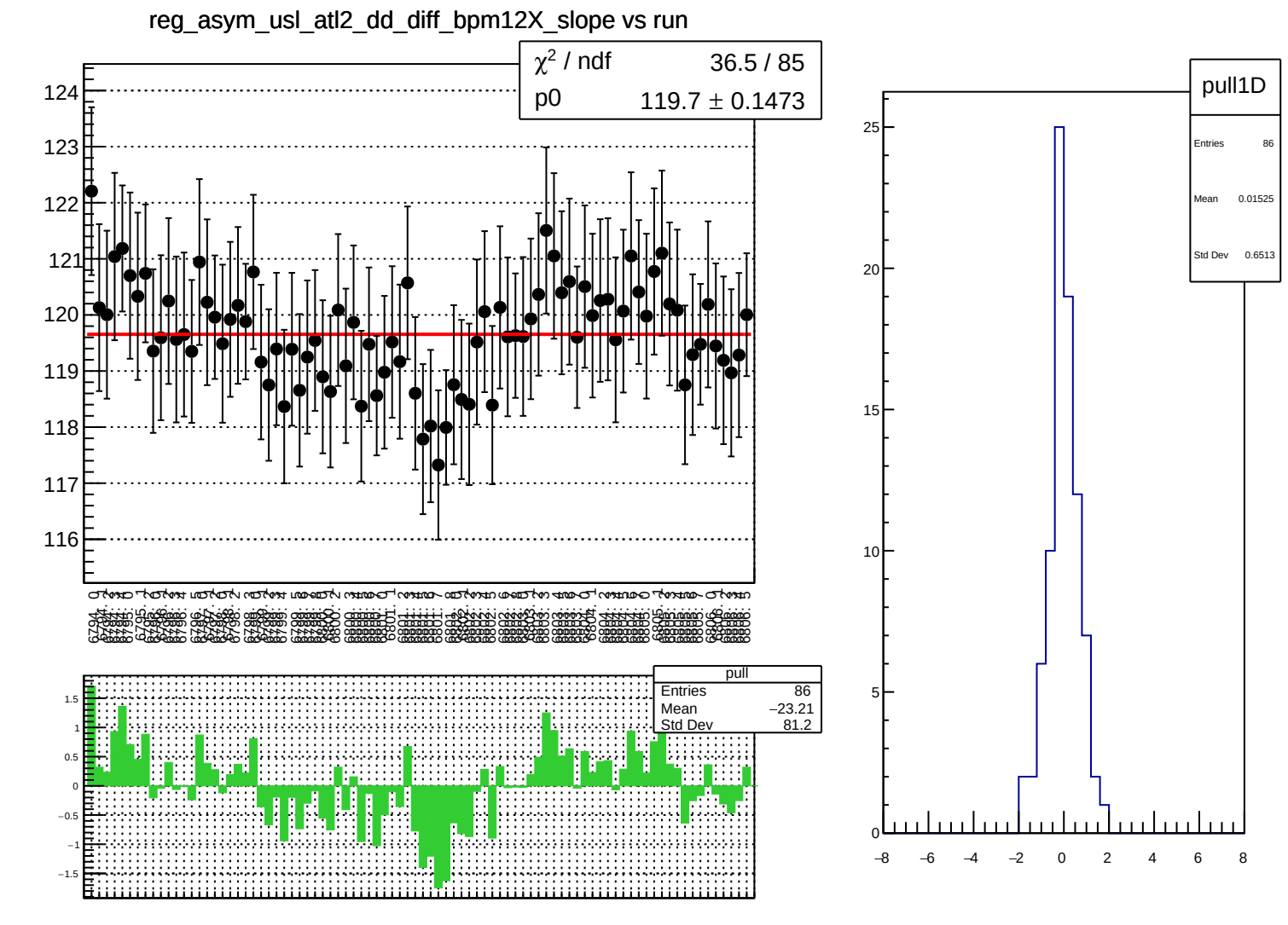

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 53.73 / 85
p0 239 ± 3.887
pull
Entries 86
Mean 447.5
Std Dev 0
pull1D
Entries 86
Mean 0.006476
Std Dev 0.7904

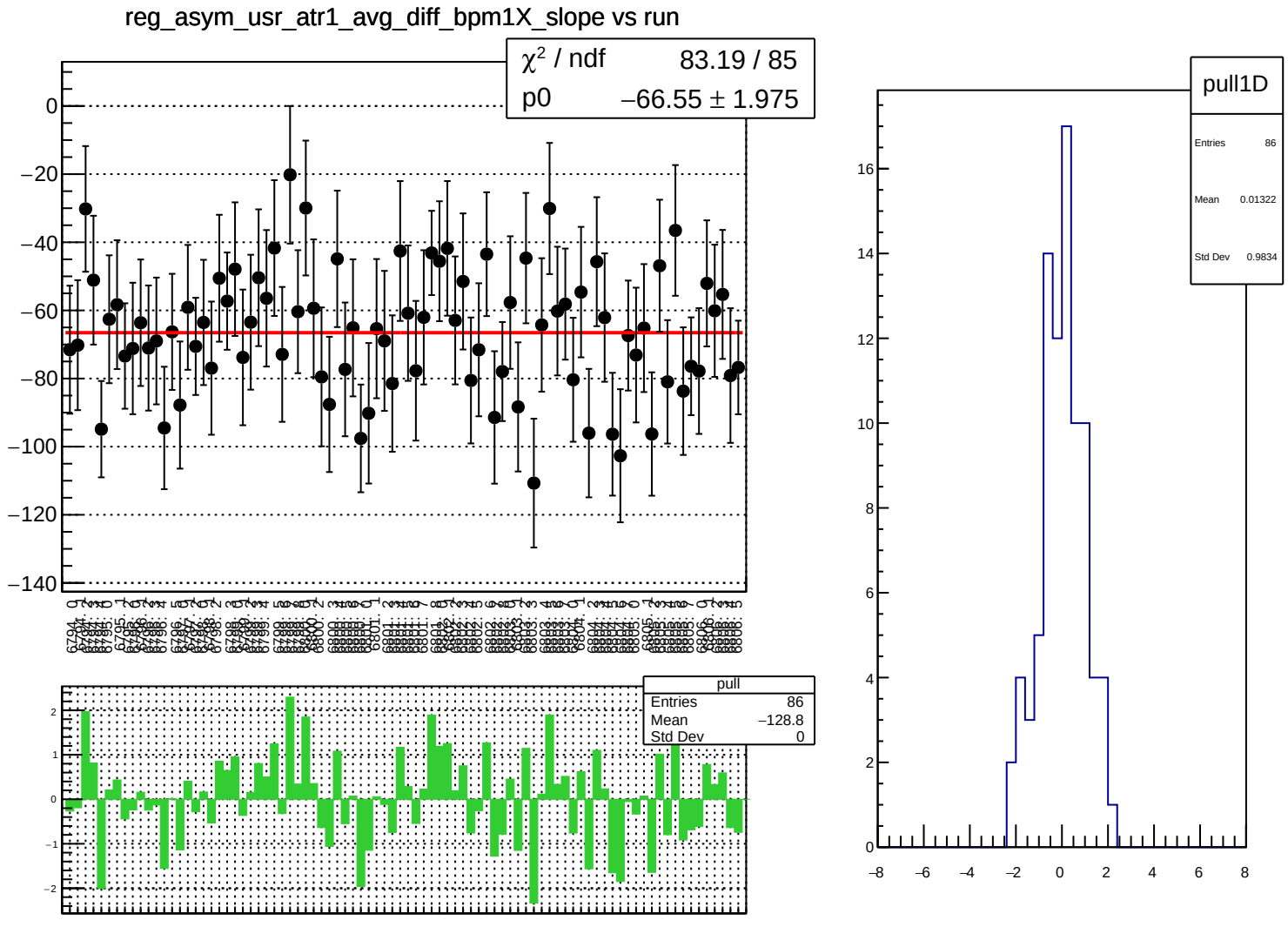

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.53 / 85
p0 −10.07 ± 1.831
pull
Entries 86
Mean −4343
Std Dev 0

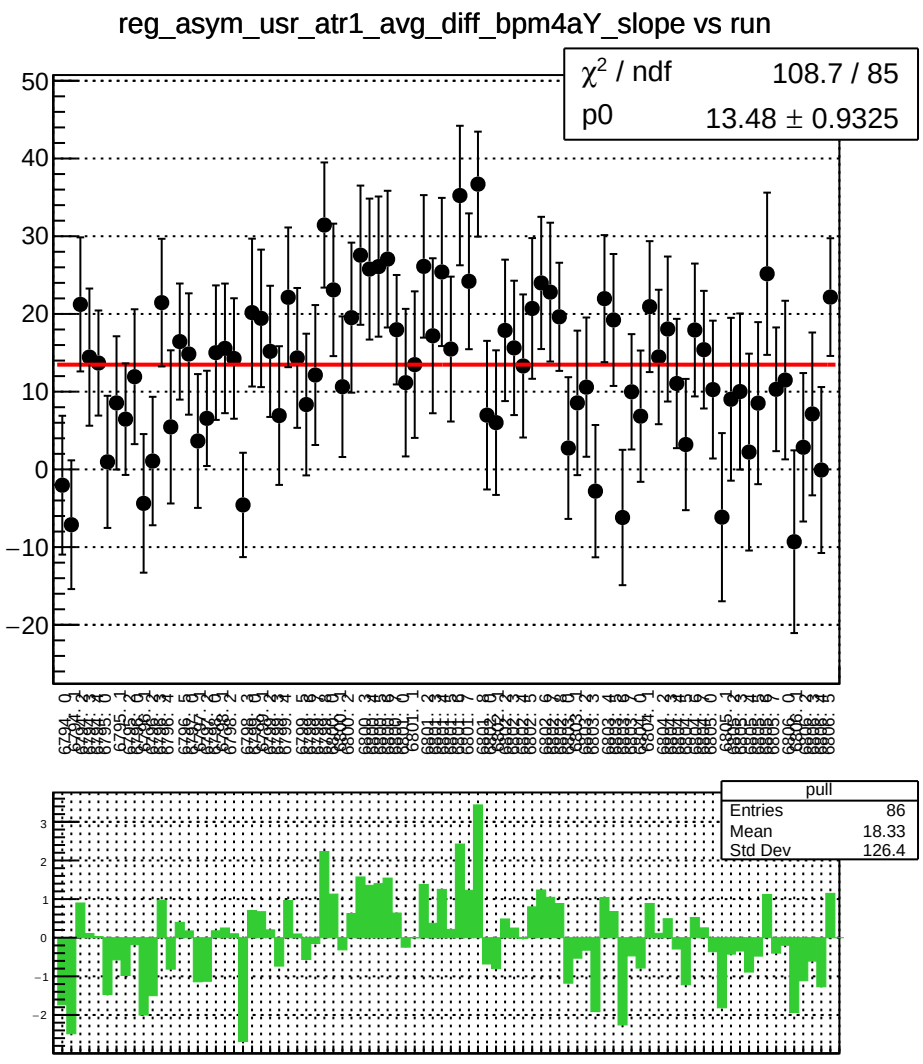

pull1D
Entries 86
Mean 0.0005518
Std Dev 0.4111

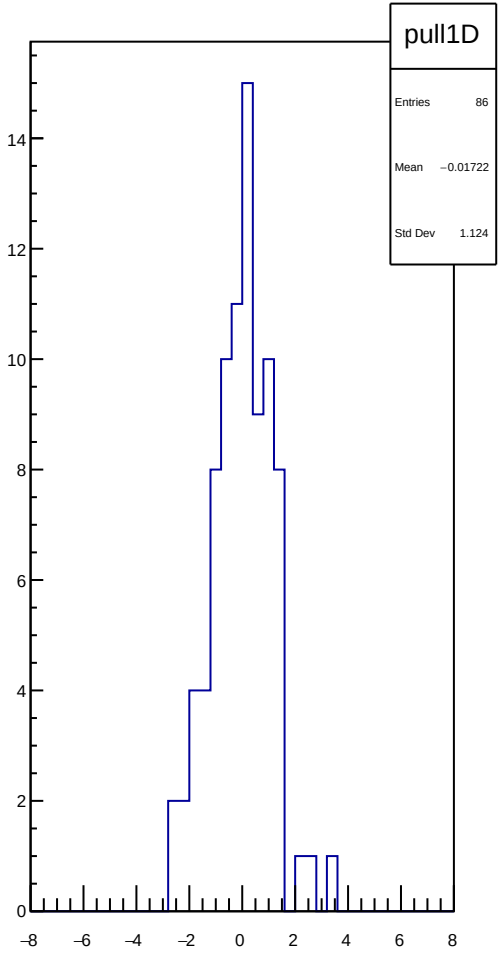

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.52 / 85
p0 −221.5 ± 3.638
pull
Entries 86
Mean 547.9
Std Dev 0
pull1D
Entries 86
Mean −0.005125
Std Dev 0.7962

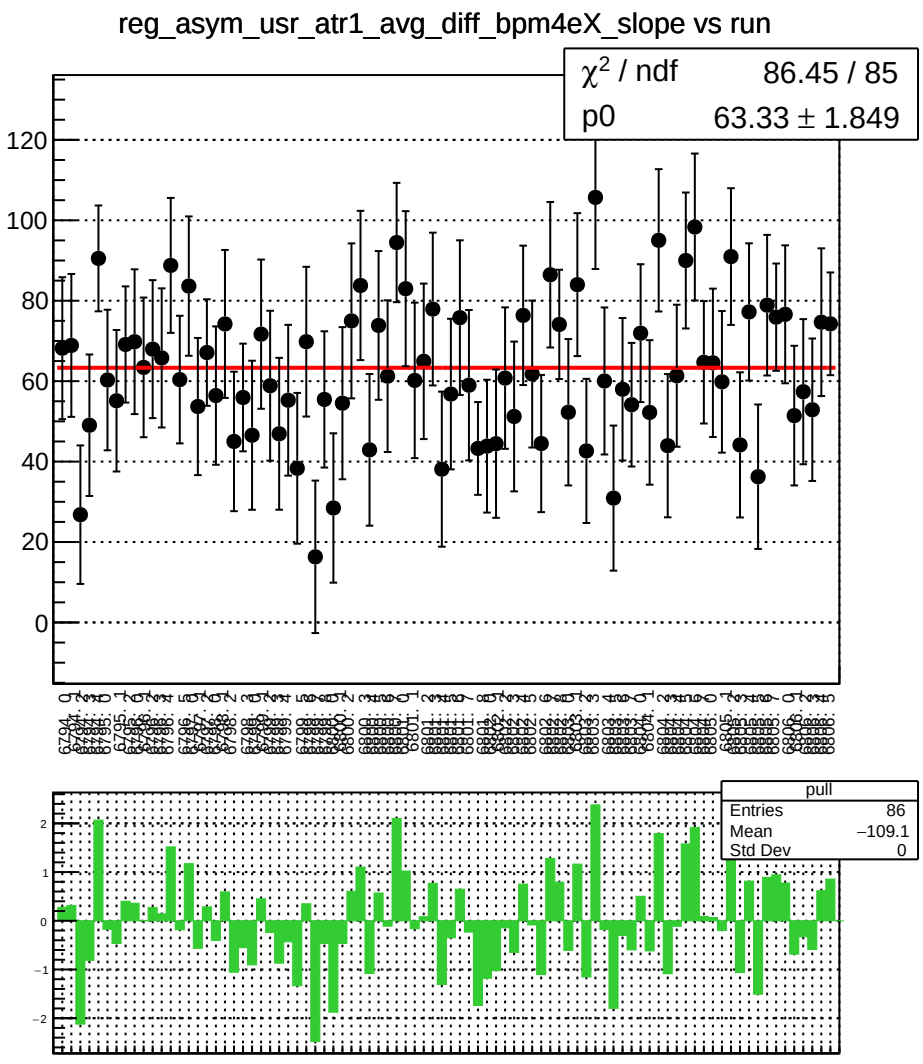

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.61 / 85
p0 −45.53 ± 2.548
pull
Entries 86
Mean −1120
Std Dev 0
pull1D
Entries 86
Mean −0.002207
Std Dev 0.426

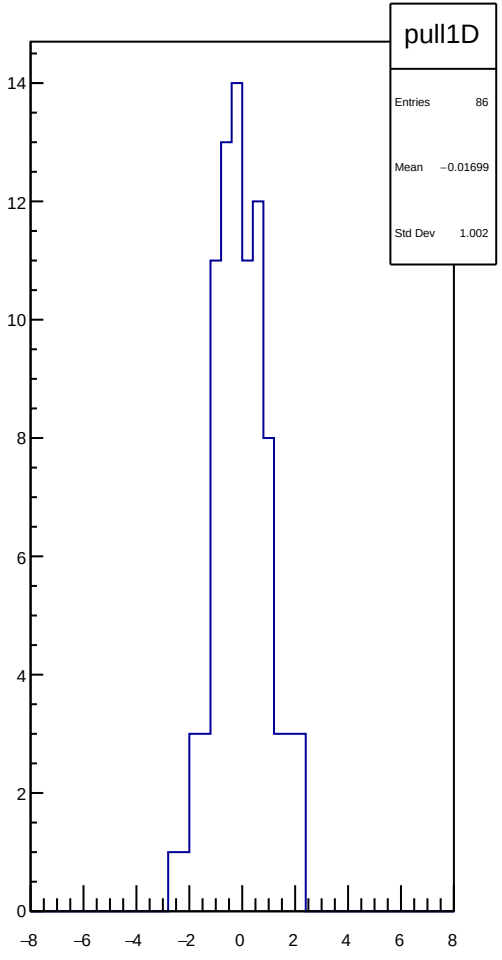

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 36.5 / 85
p0 119.7 ± 0.1473
124
123
122
121
120
119
118
117
116
pull
Entries 86
Mean −23.21
Std Dev 81.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 86
Mean 0.01525
Std Dev 0.6513
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

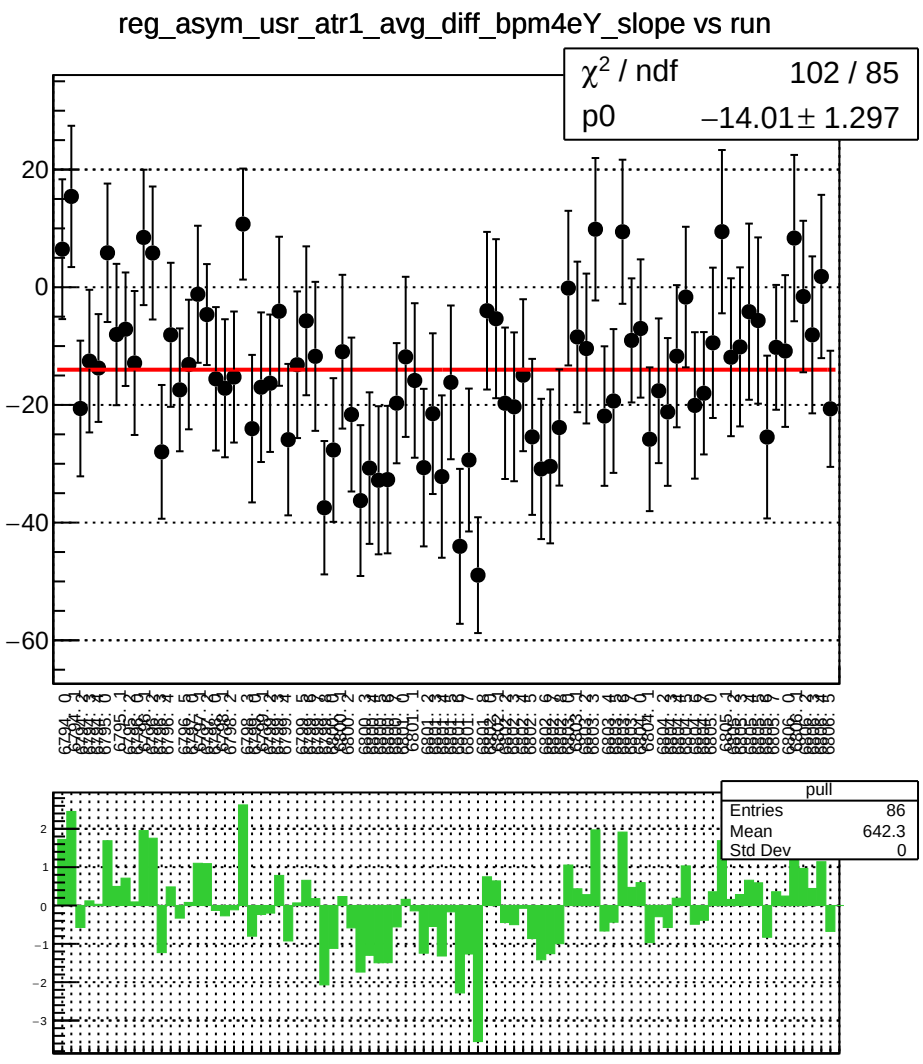

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 83.19 / 85
p0 −66.55 ± 1.975
pull
Entries 86
Mean −128.8
Std Dev 0
pull1D
Entries 86
Mean 0.01322
Std Dev 0.9834

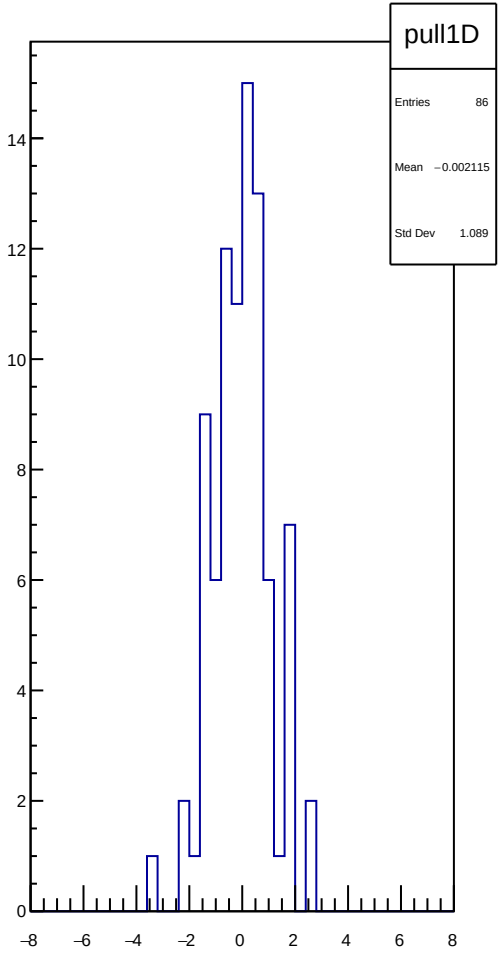

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 108.7 / 85
p0 13.48 ± 0.9325
pull
Entries 86
Mean 18.33
Std Dev 126.4

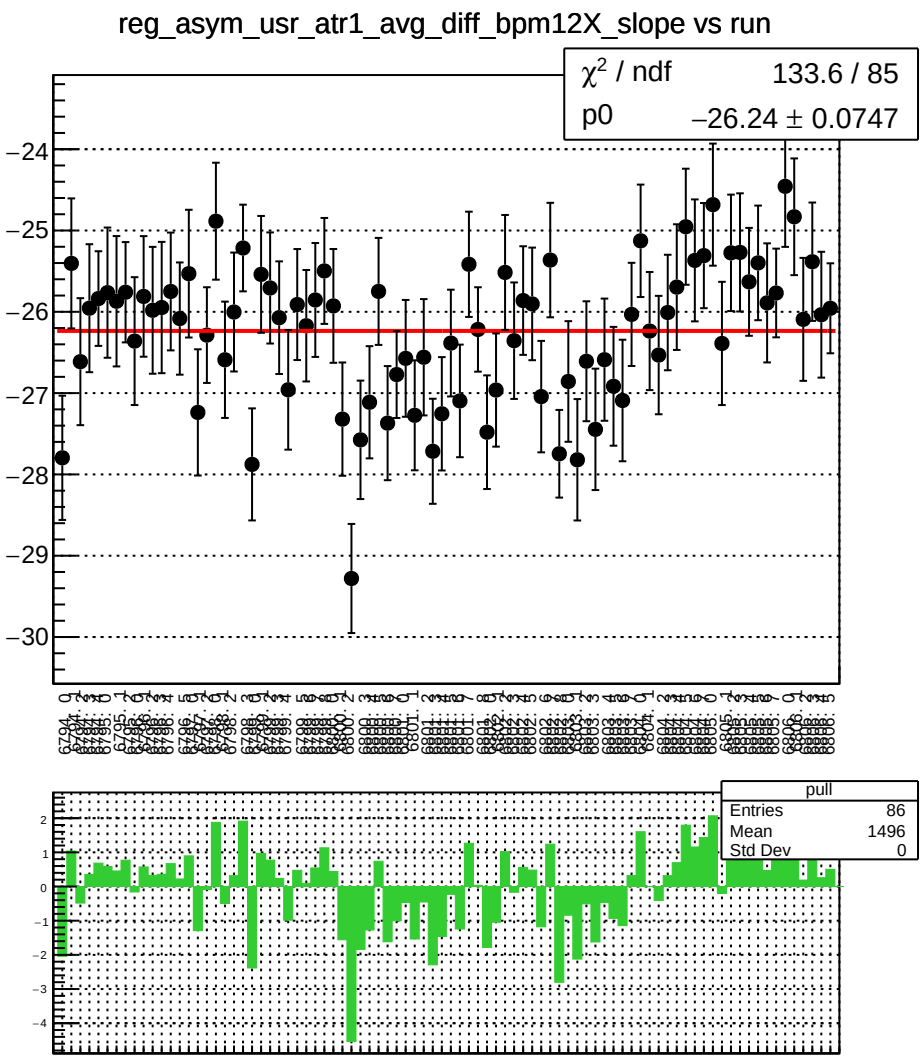

pull1D
Entries 86
Mean −0.01722
Std Dev 1.124

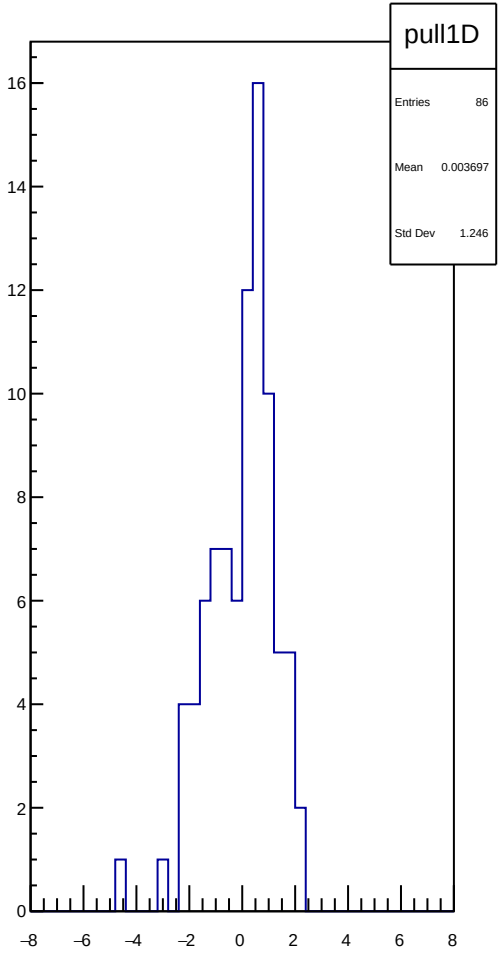

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 86.45 / 85
p0 63.33 ± 1.849
pull
Entries 86
Mean −109.1
Std Dev 0

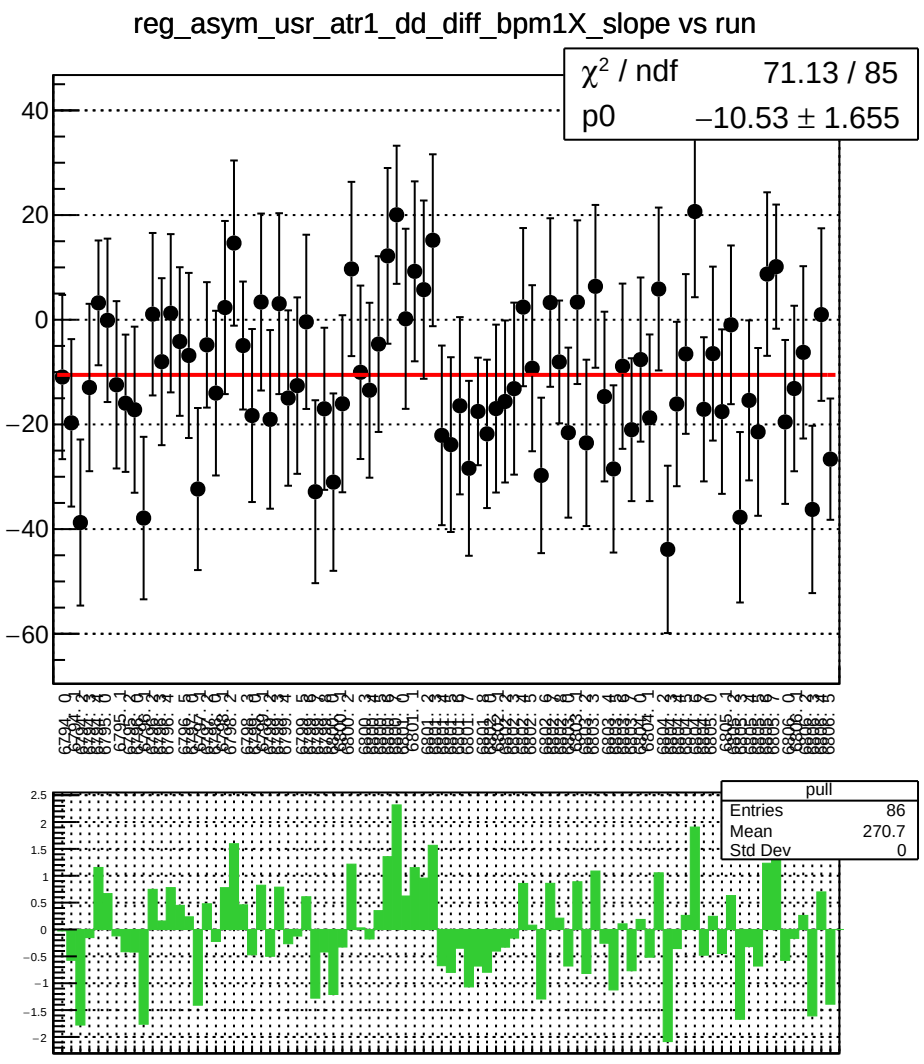

pull1D
Entries 86
Mean −0.01699
Std Dev 1.002

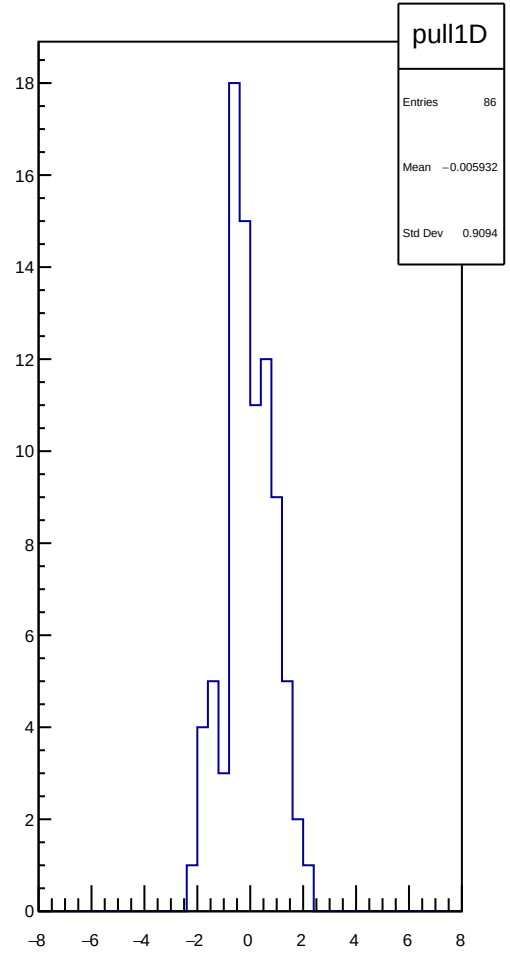

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 102 / 85
p0 −14.01± 1.297
pull
Entries 86
Mean 642.3
Std Dev 0

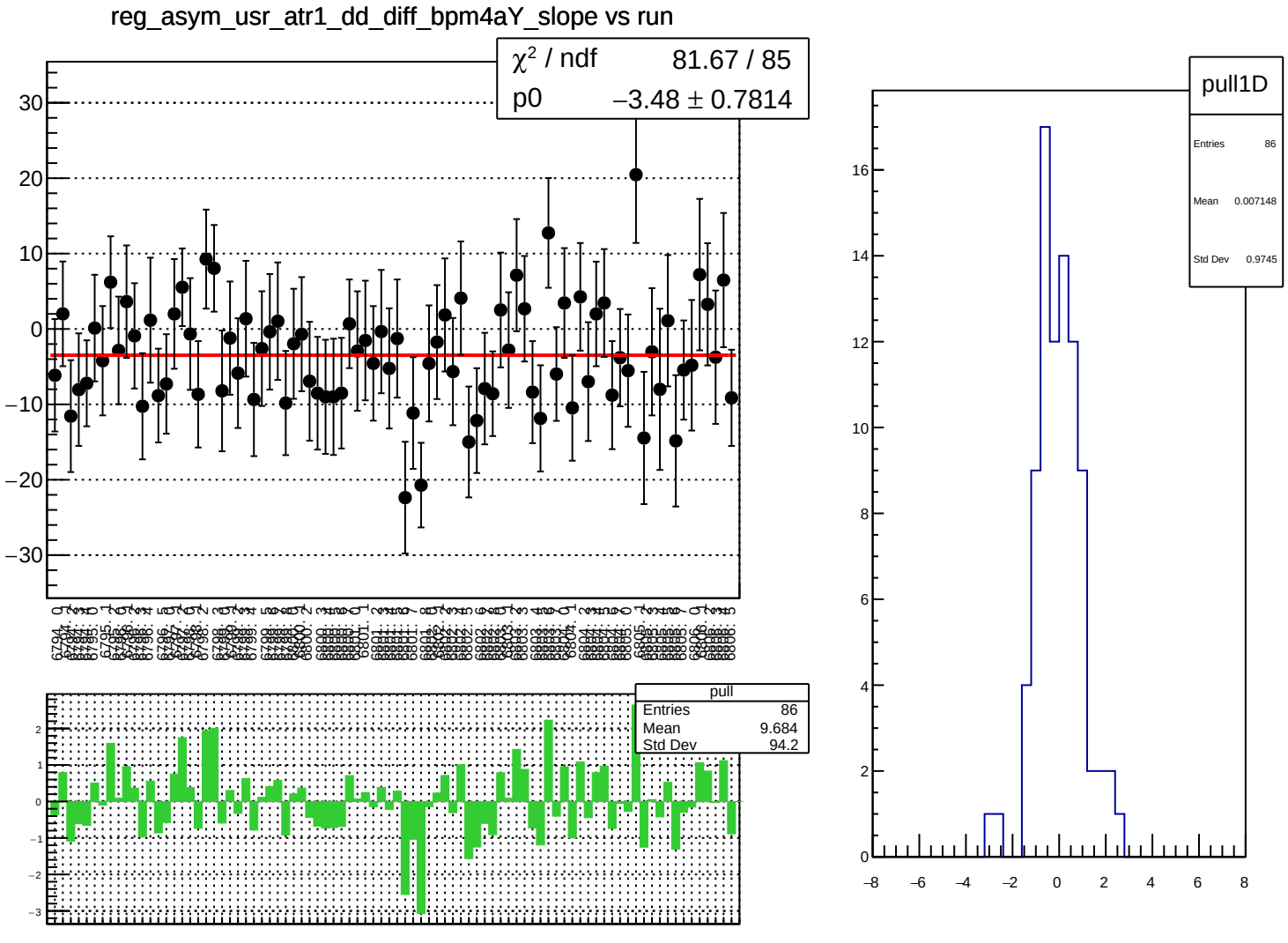

pull1D
Entries 86
Mean −0.002115
Std Dev 1.089

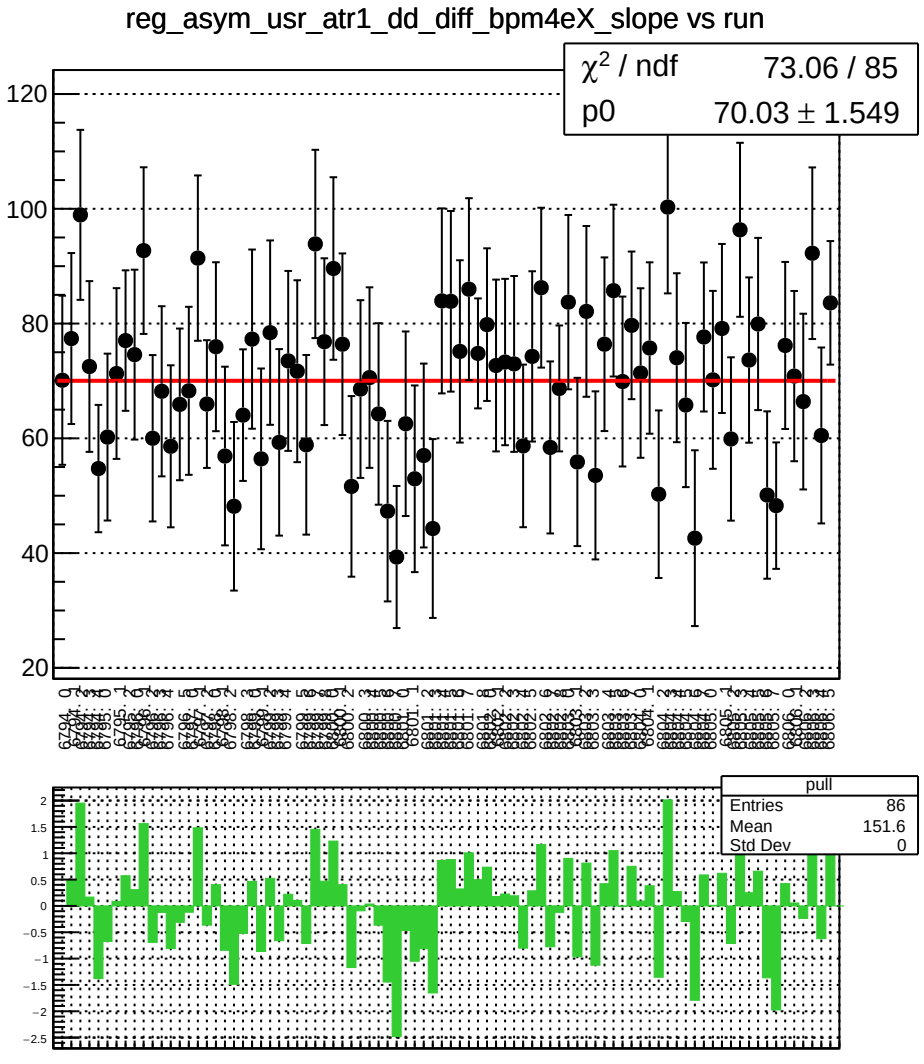

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 133.6 / 85
p0 −26.24 ± 0.0747
pull
Entries 86
Mean 1496
Std Dev 0

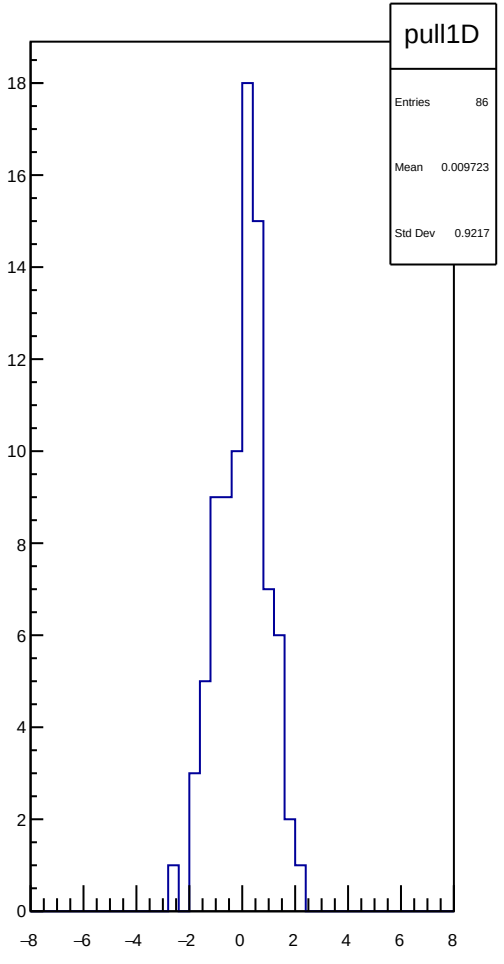

pull1D
Entries 86
Mean 0.003697
Std Dev 1.246

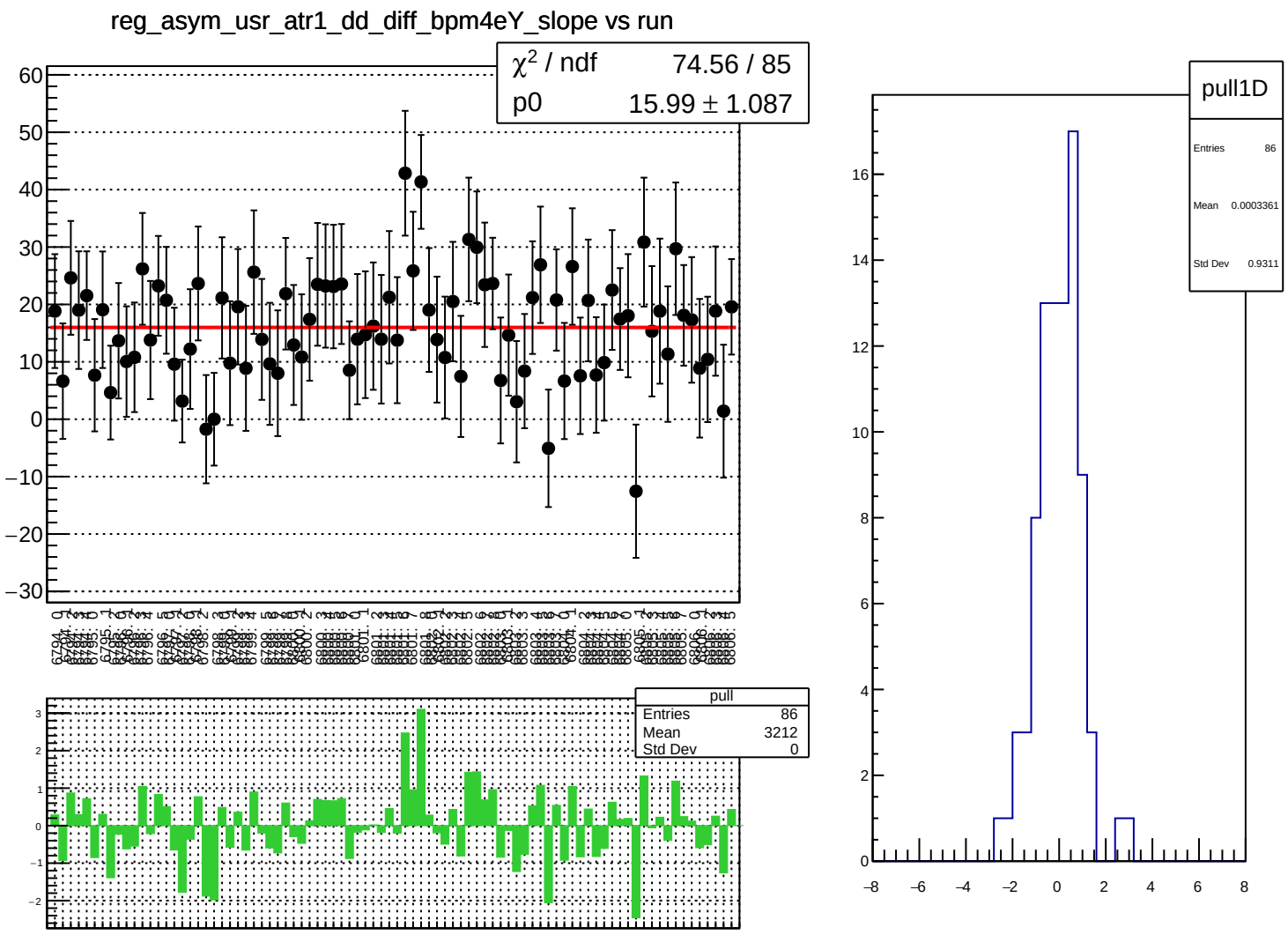

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.13 / 85
p0 −10.53 ± 1.655
pull
Entries 86
Mean 270.7
Std Dev 0

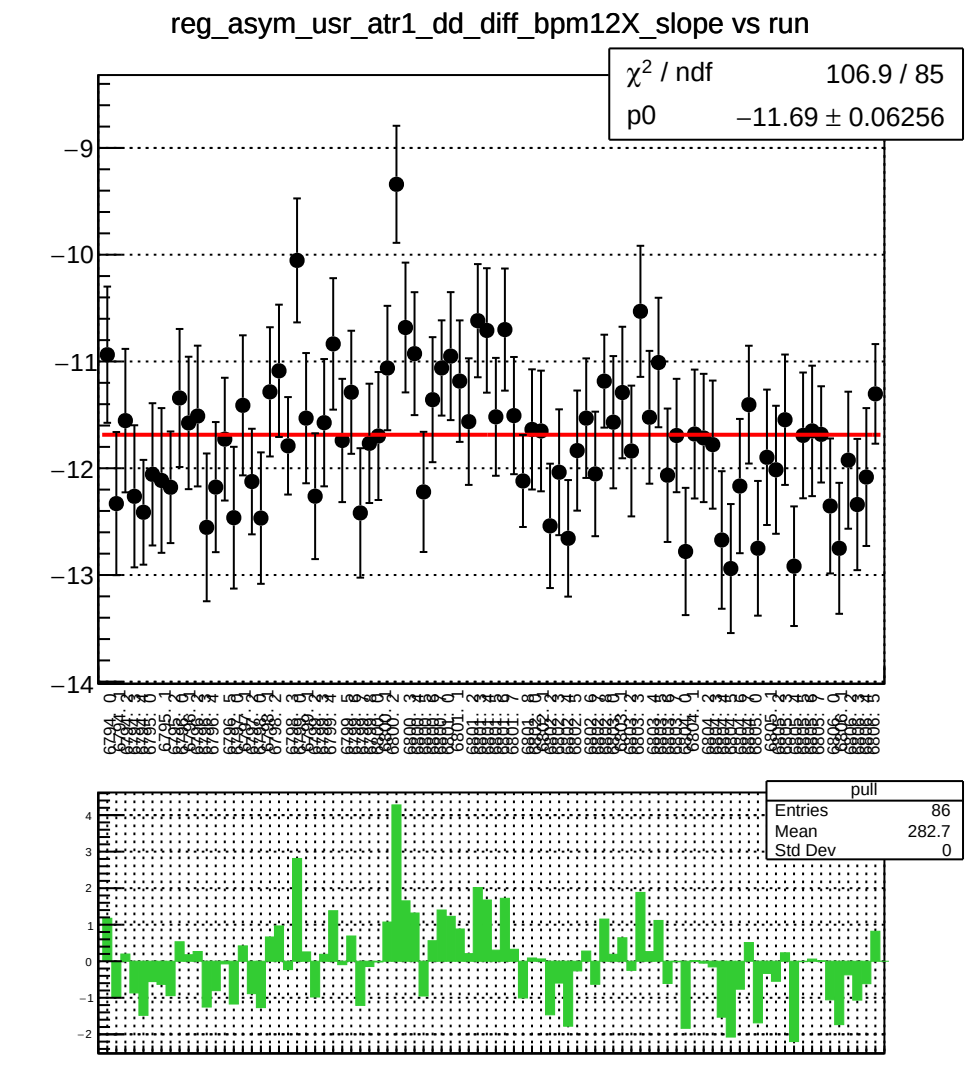

pull1D
Entries 86
Mean −0.005932
Std Dev 0.9094

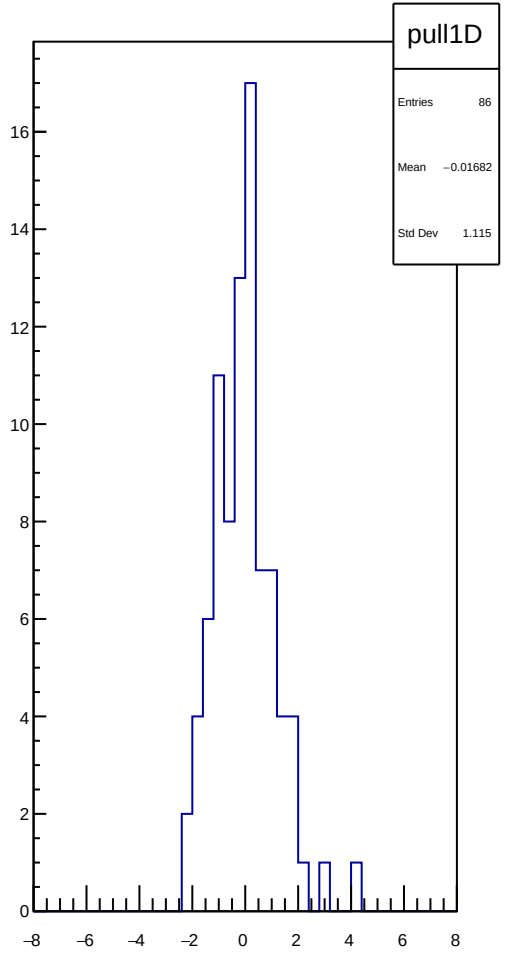

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 81.67 / 85
p0 −3.48 ± 0.7814
pull
Entries 86
Mean 9.684
Std Dev 94.2
pull1D
Entries 86
Mean 0.007148
Std Dev 0.9745

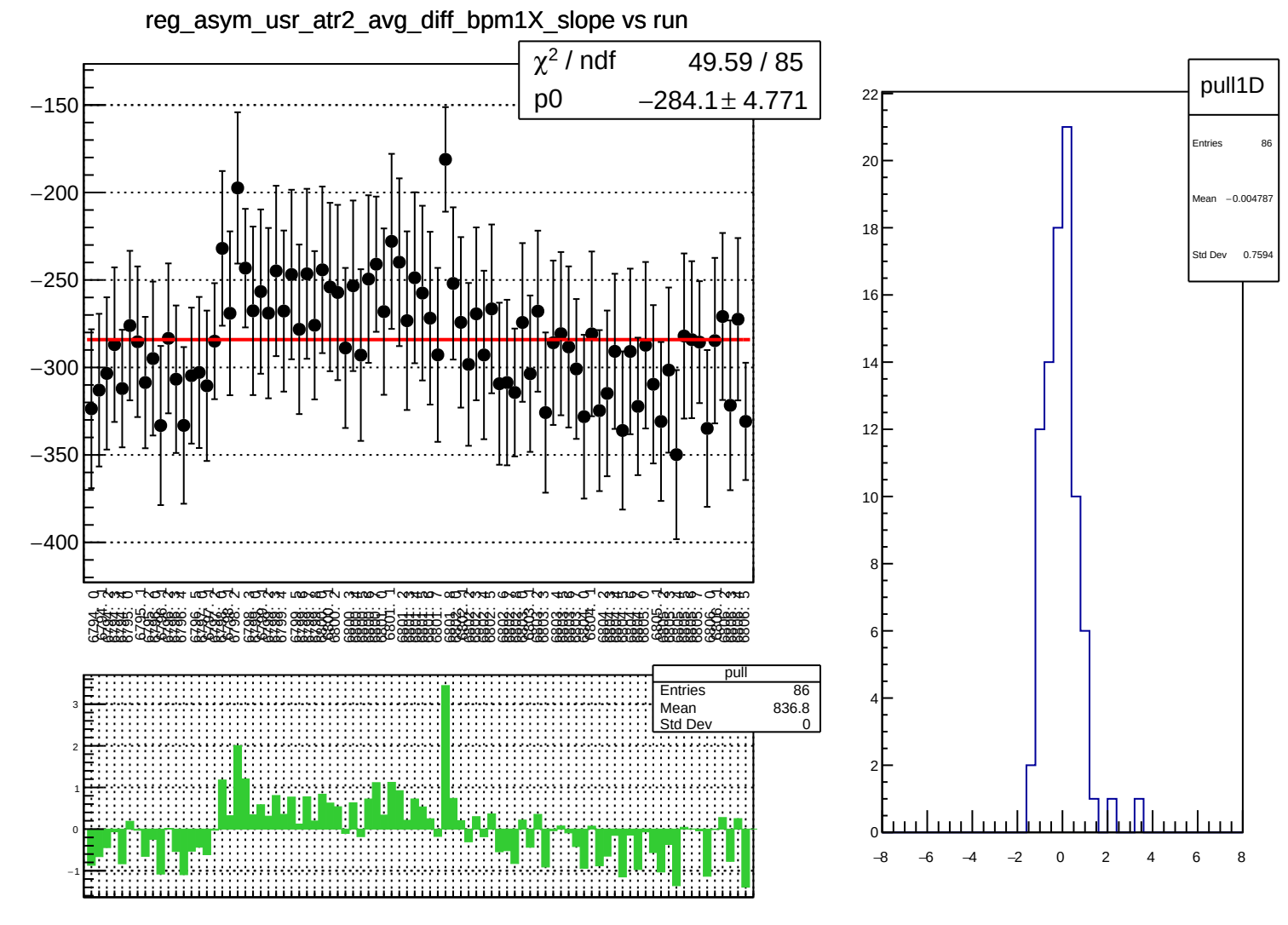

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.06 / 85
p0 70.03 ± 1.549
pull
Entries 86
Mean 151.6
Std Dev 0

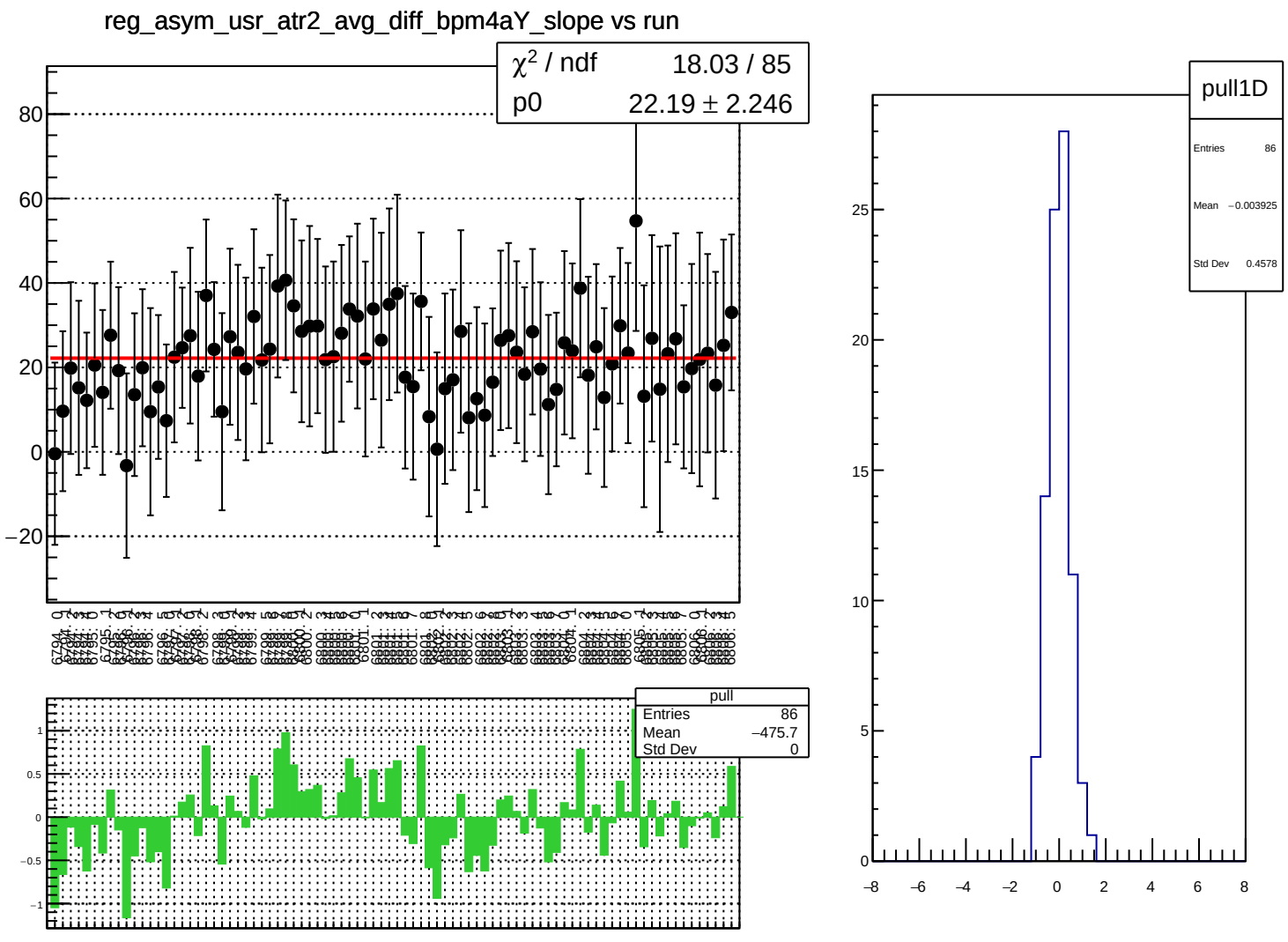

pull1D
Entries 86
Mean 0.009723
Std Dev 0.9217

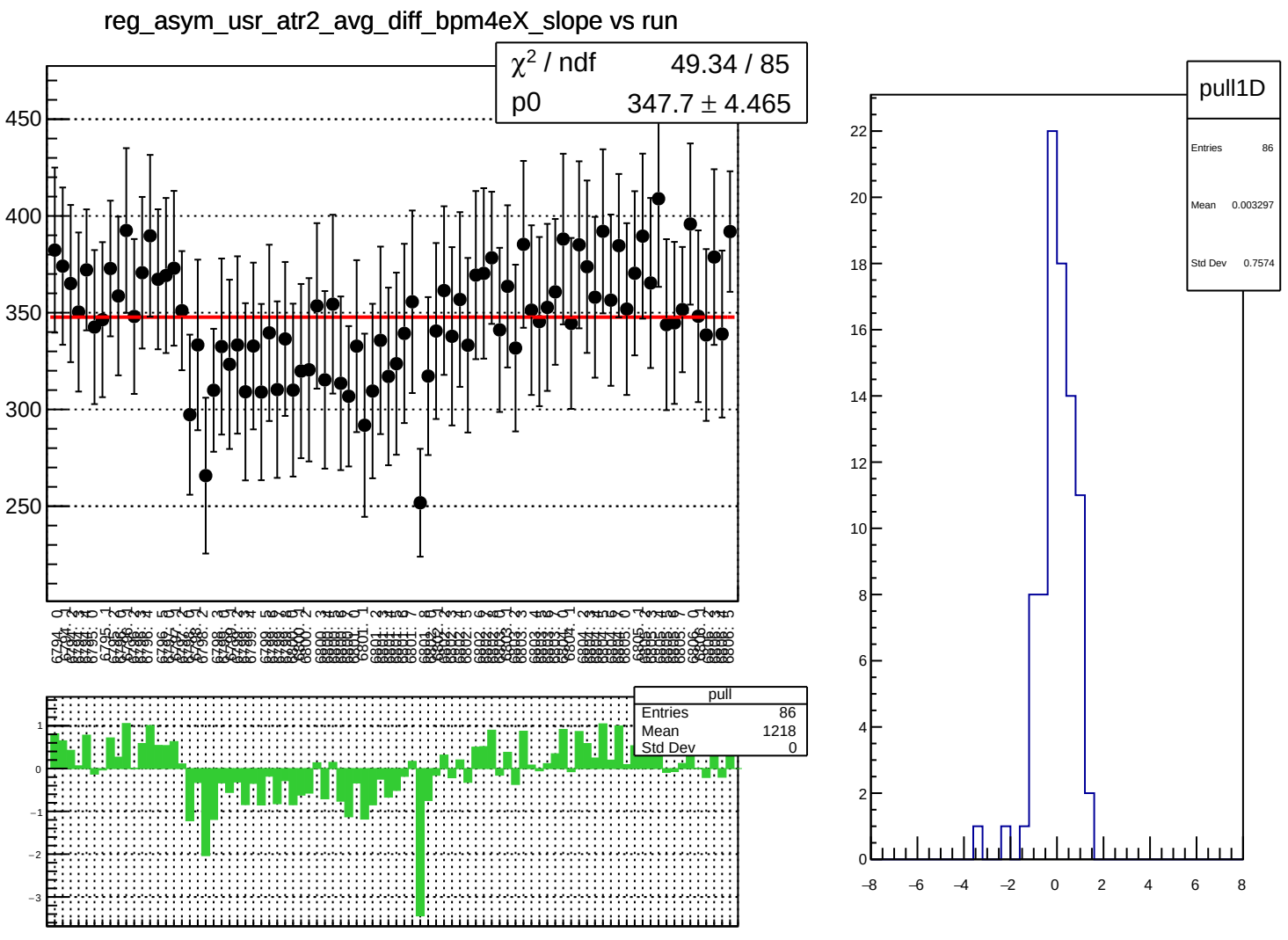

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.56 / 85
p0 15.99 ± 1.087
pull
Entries 86
Mean 3212
Std Dev 0
pull1D
Entries 86
Mean 0.0003361
Std Dev 0.9311

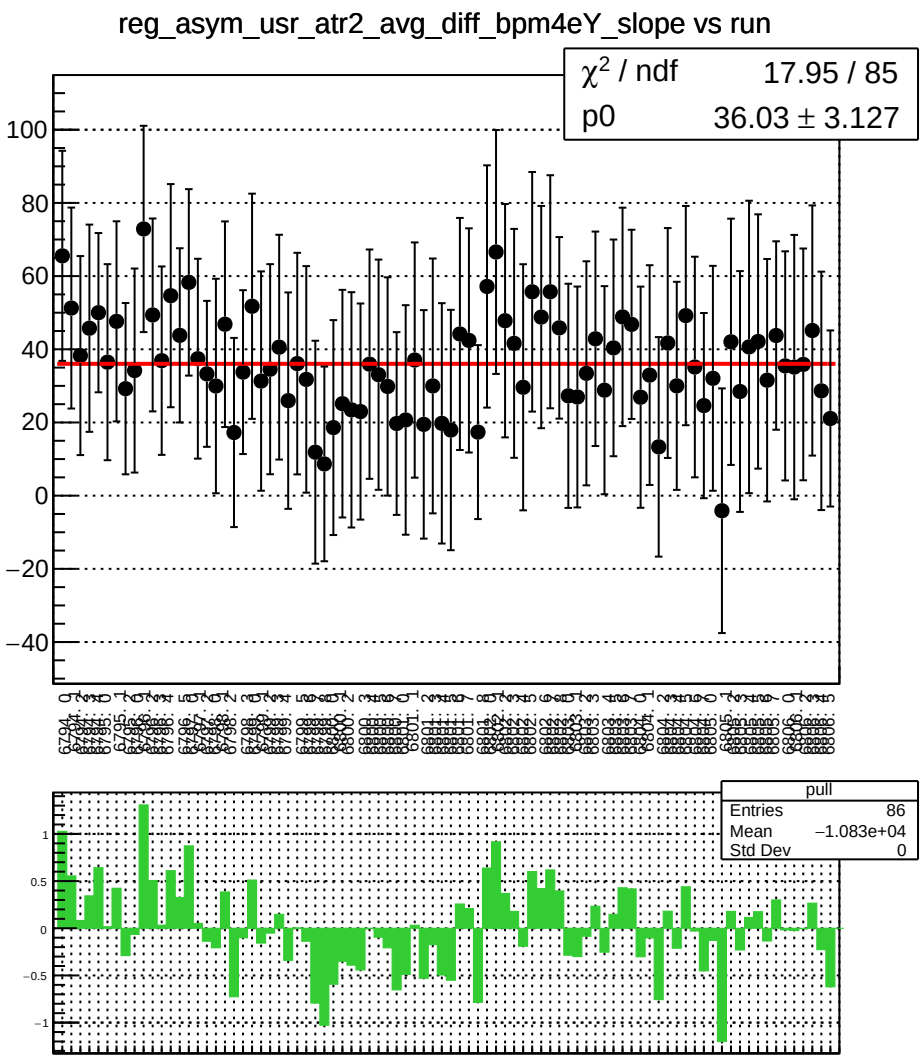

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 106.9 / 85
p0 −11.69 ± 0.06256
pull
Entries 86
Mean 282.7
Std Dev 0

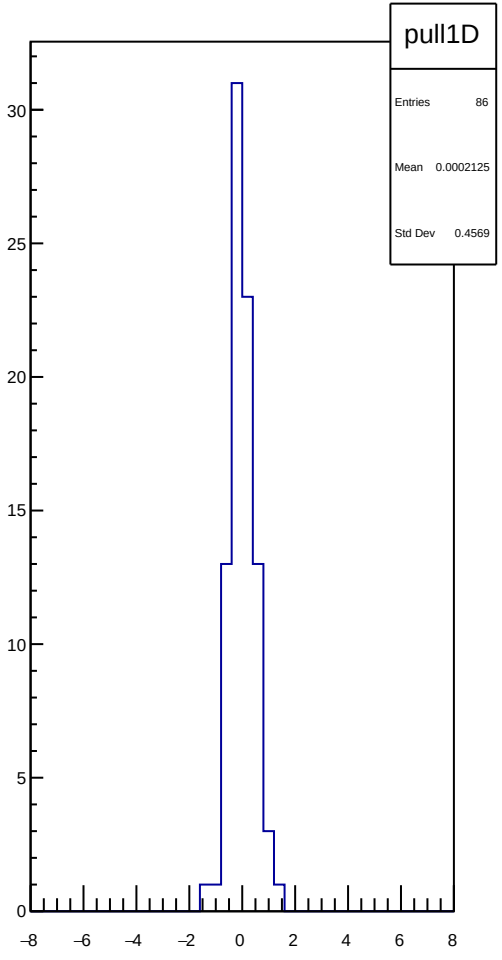

pull1D
Entries 86
Mean −0.01682
Std Dev 1.115

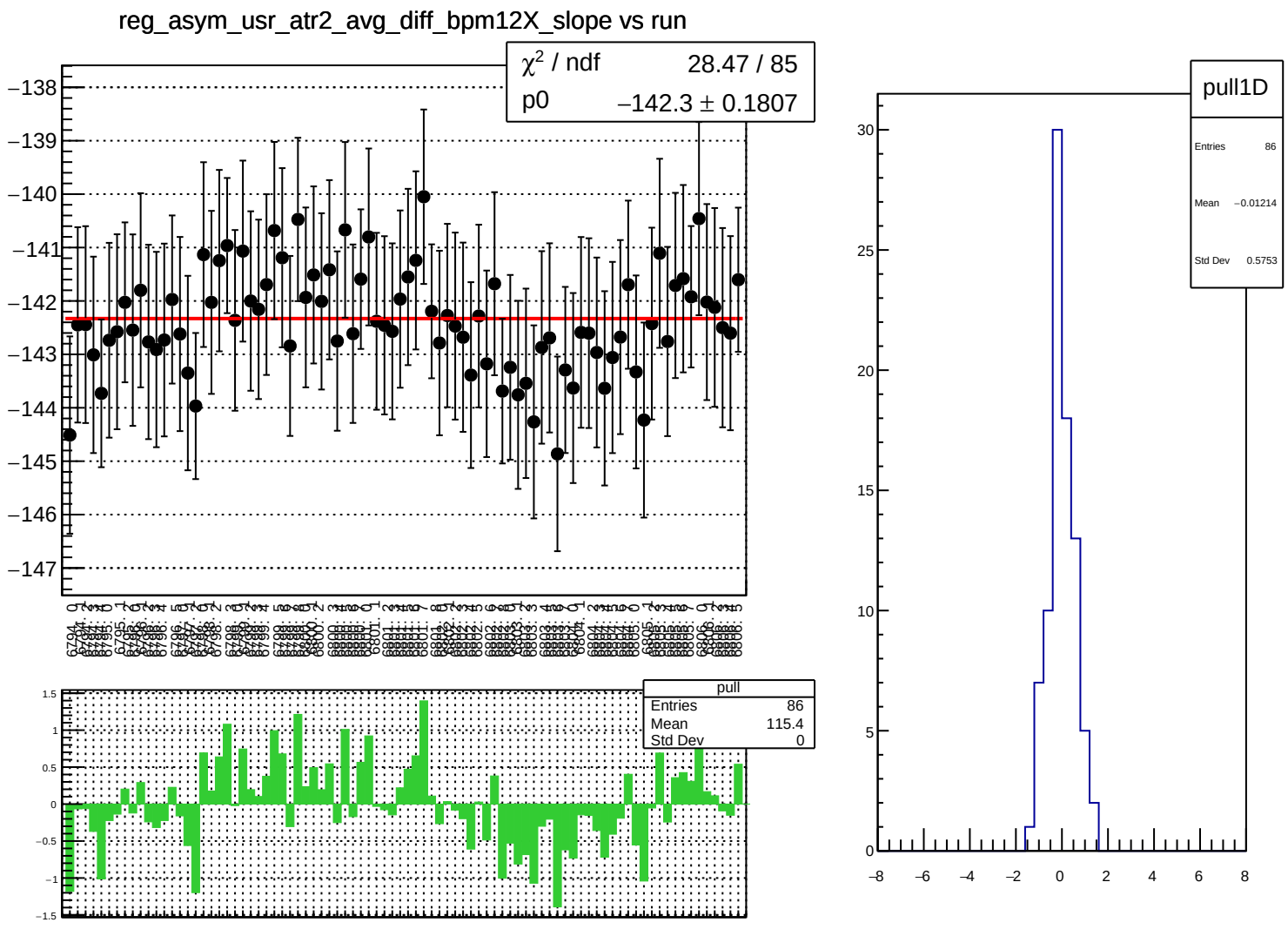

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 49.59 / 85
p0 −284.1 ± 4.771
pull
Entries 86
Mean 836.8
Std Dev 0
pull1D
Entries 86
Mean −0.004787
Std Dev 0.7594

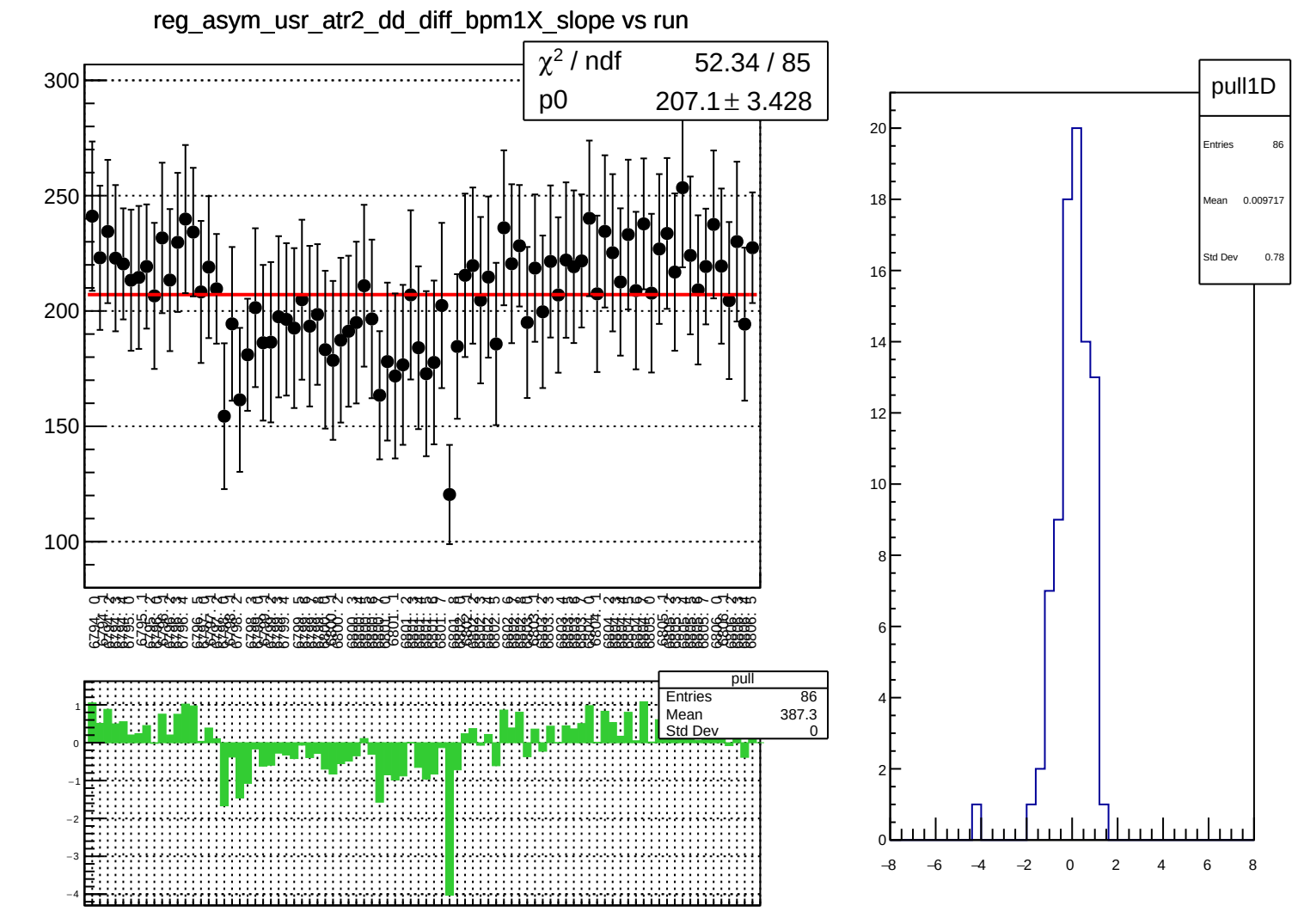

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.03 / 85
p0 22.19 ± 2.246
pull
Entries 86
Mean −475.7
Std Dev 0
pull1D
Entries 86
Mean −0.003925
Std Dev 0.4578

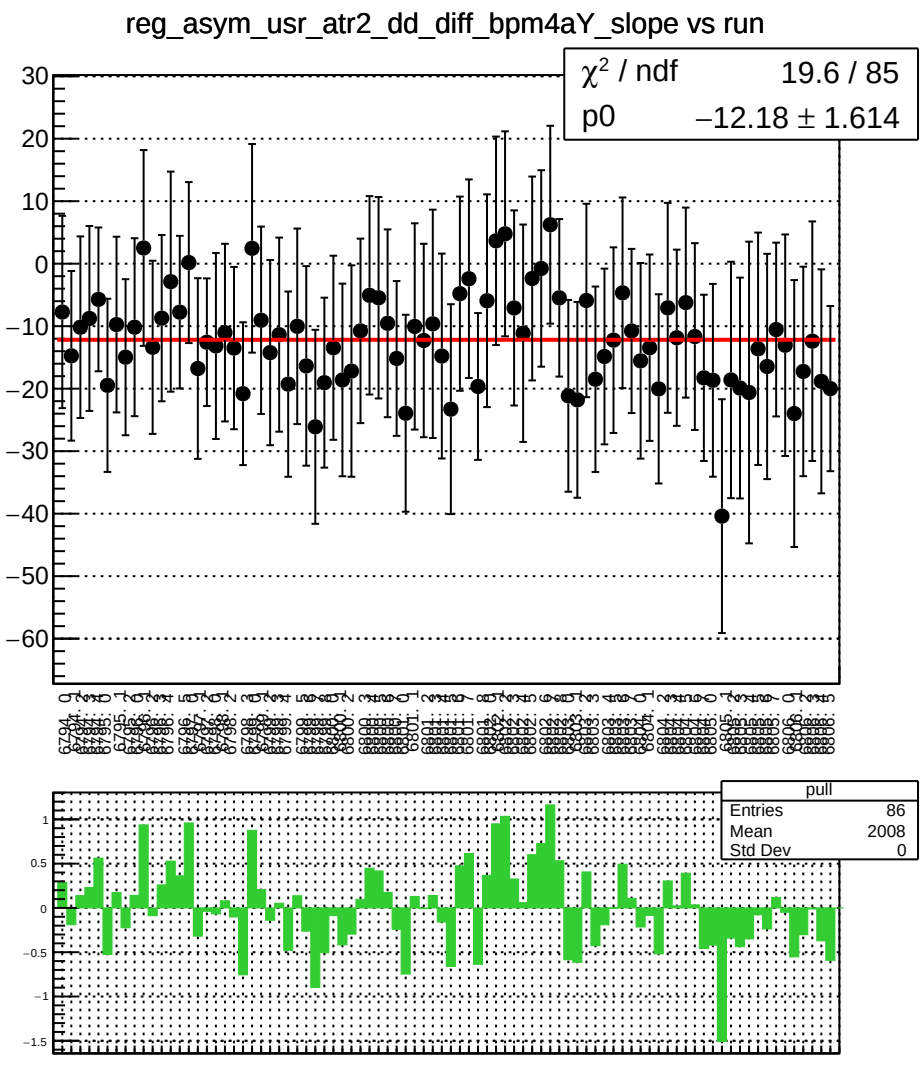

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.34 / 85
p0 347.7 ± 4.465
450
400
350
300
250
pull
Entries 86
Mean 1218
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 86
Mean 0.003297
Std Dev 0.7574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

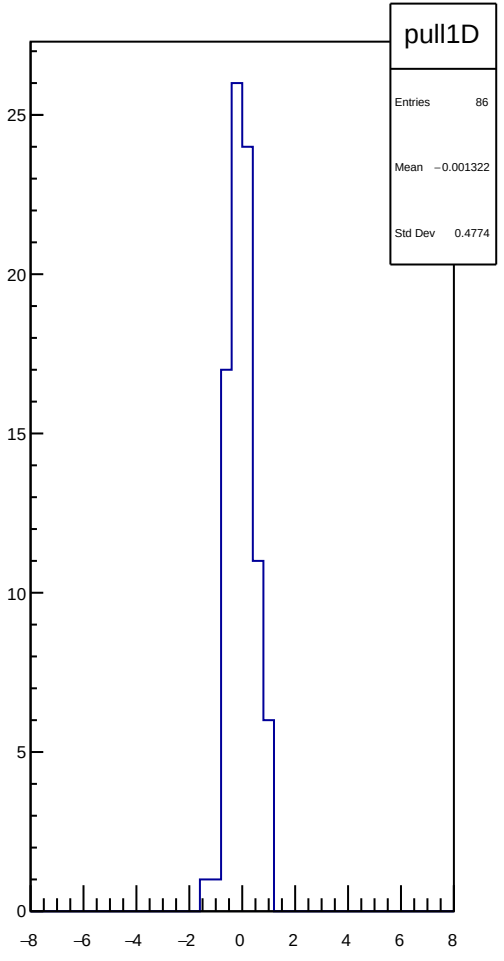

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.95 / 85
p0 36.03 ± 3.127
pull
Entries 86
Mean −1.083e+04
Std Dev 0

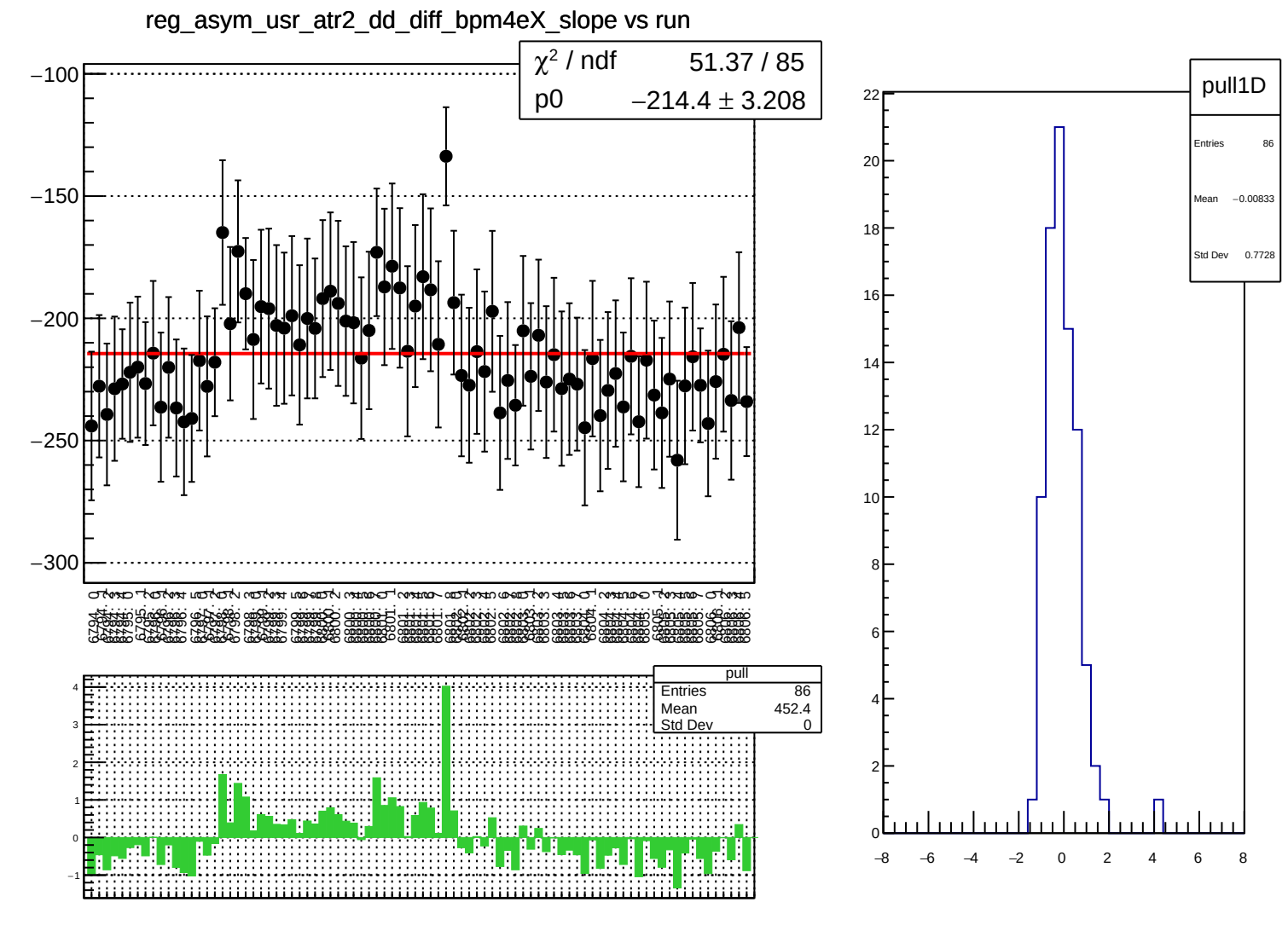

pull1D
Entries 86
Mean 0.0002125
Std Dev 0.4569

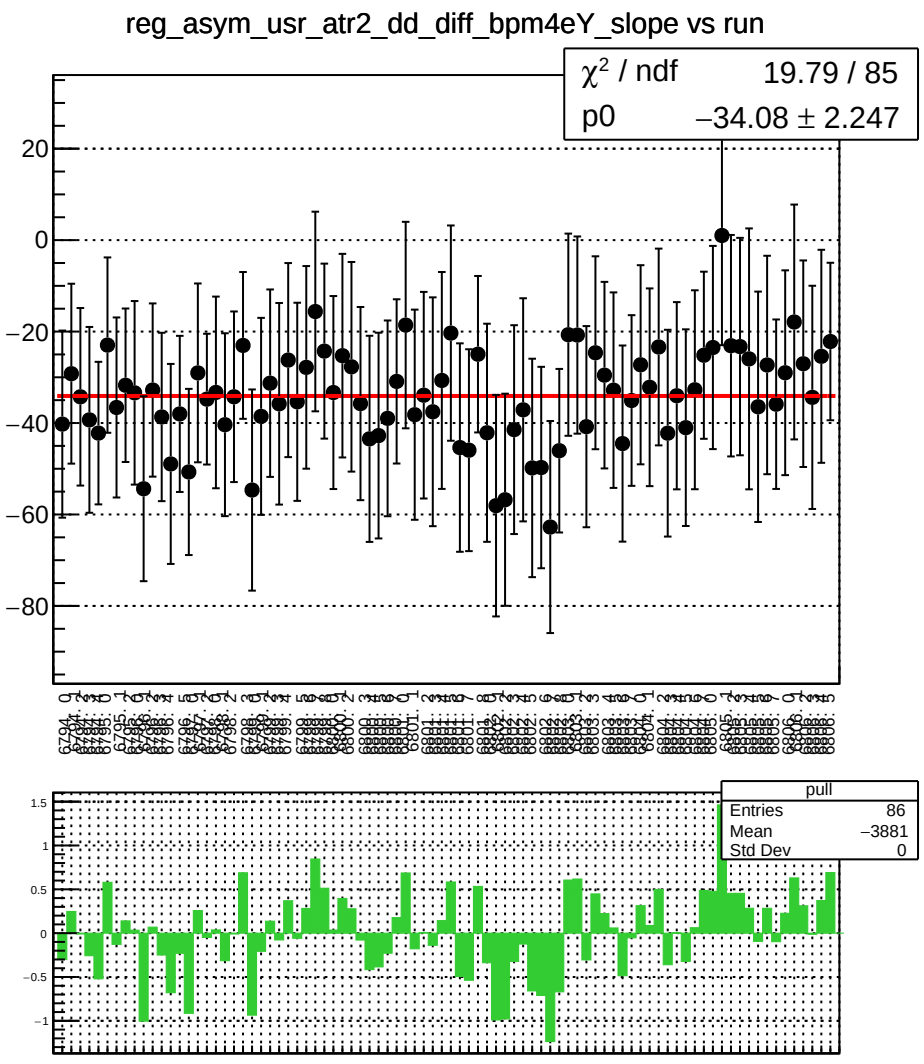

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 28.47 / 85
p0 −142.3 ± 0.1807
pull
Entries 86
Mean 115.4
Std Dev 0
pull1D
Entries 86
Mean −0.01214
Std Dev 0.5753

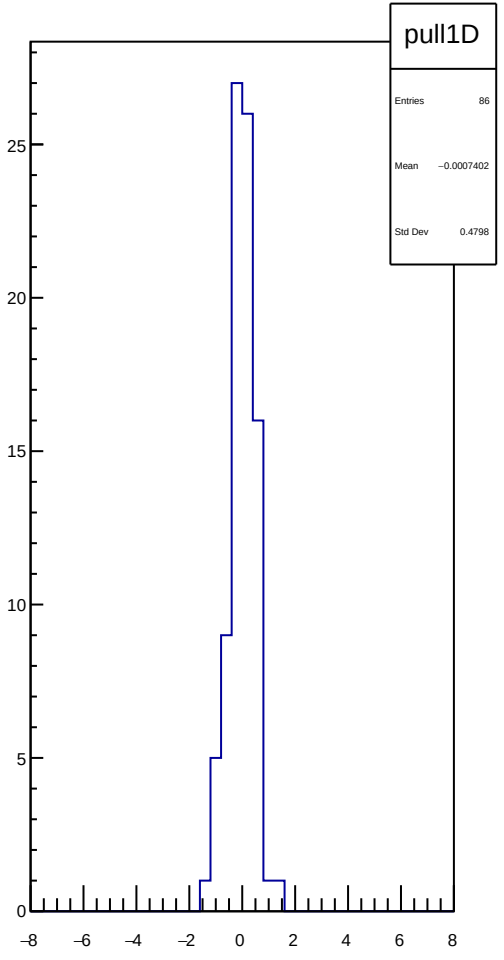

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 52.34 / 85
p0 207.1 ± 3.428
300
250
200
150
100
pull
Entries 86
Mean 387.3
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.009717
Std Dev 0.78
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

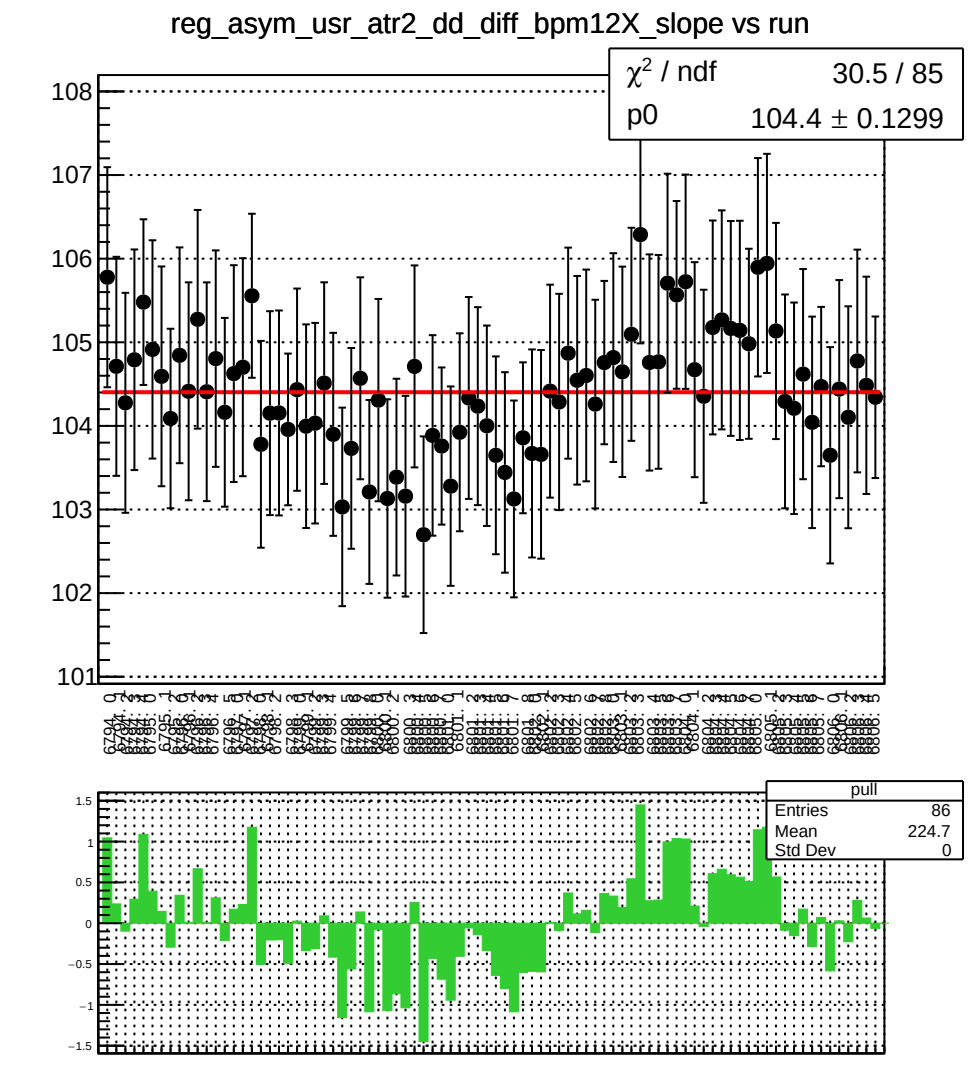

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.6 / 85
p0 −12.18 ± 1.614
pull
Entries 86
Mean 2008
Std Dev 0

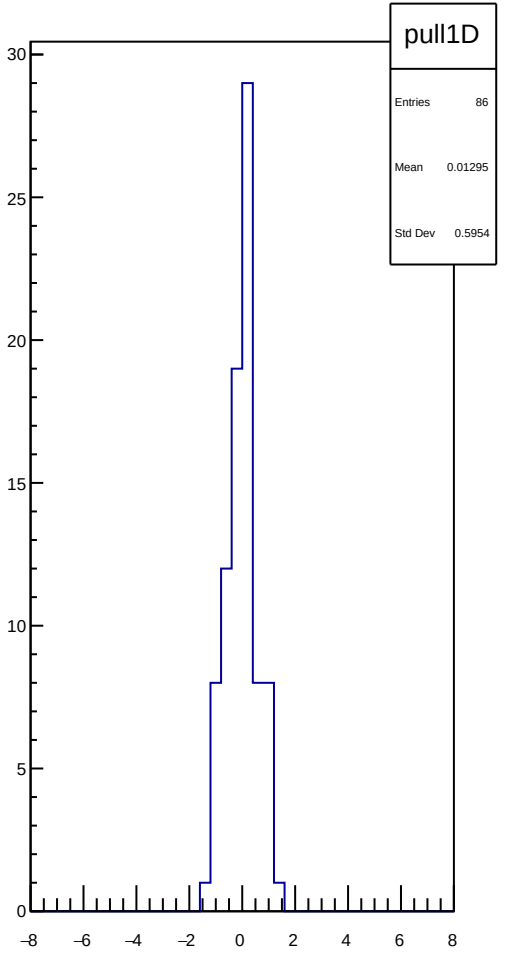

pull1D
Entries 86
Mean −0.001322
Std Dev 0.4774

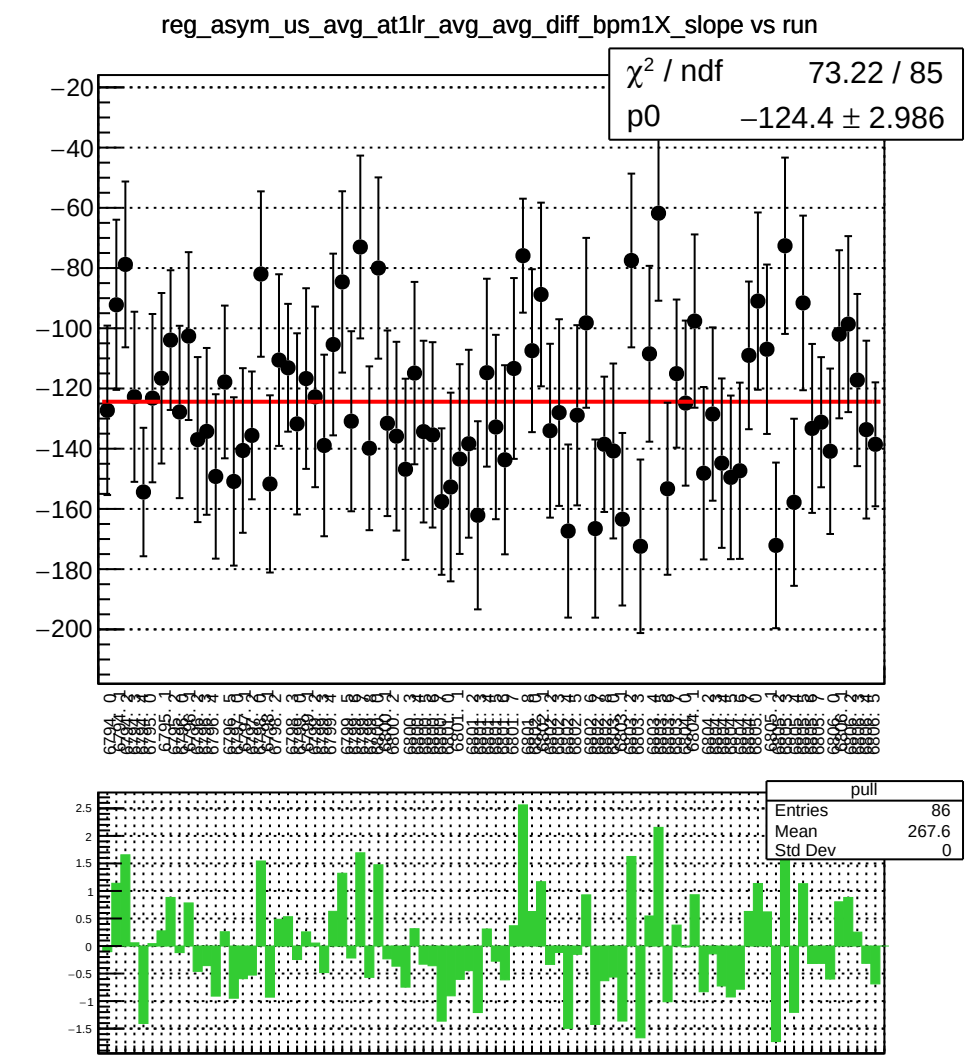

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.37 / 85
p0 −214.4 ± 3.208
−100
−150
−200
−250
−300
pull
Entries 86
Mean 452.4
Std Dev 0
pull1D
Entries 86
Mean −0.00833
Std Dev 0.7728

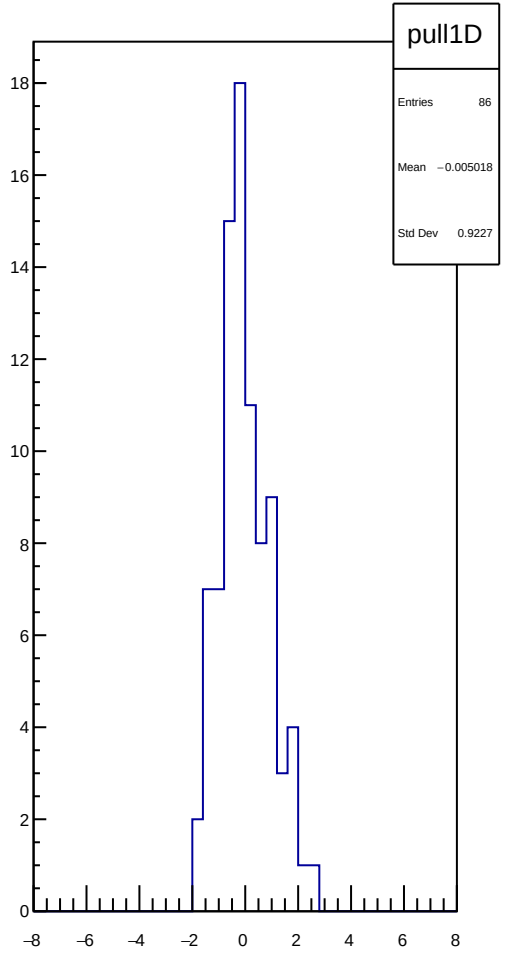

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.79 / 85
p0 −34.08 ± 2.247
pull
Entries 86
Mean −3881
Std Dev 0

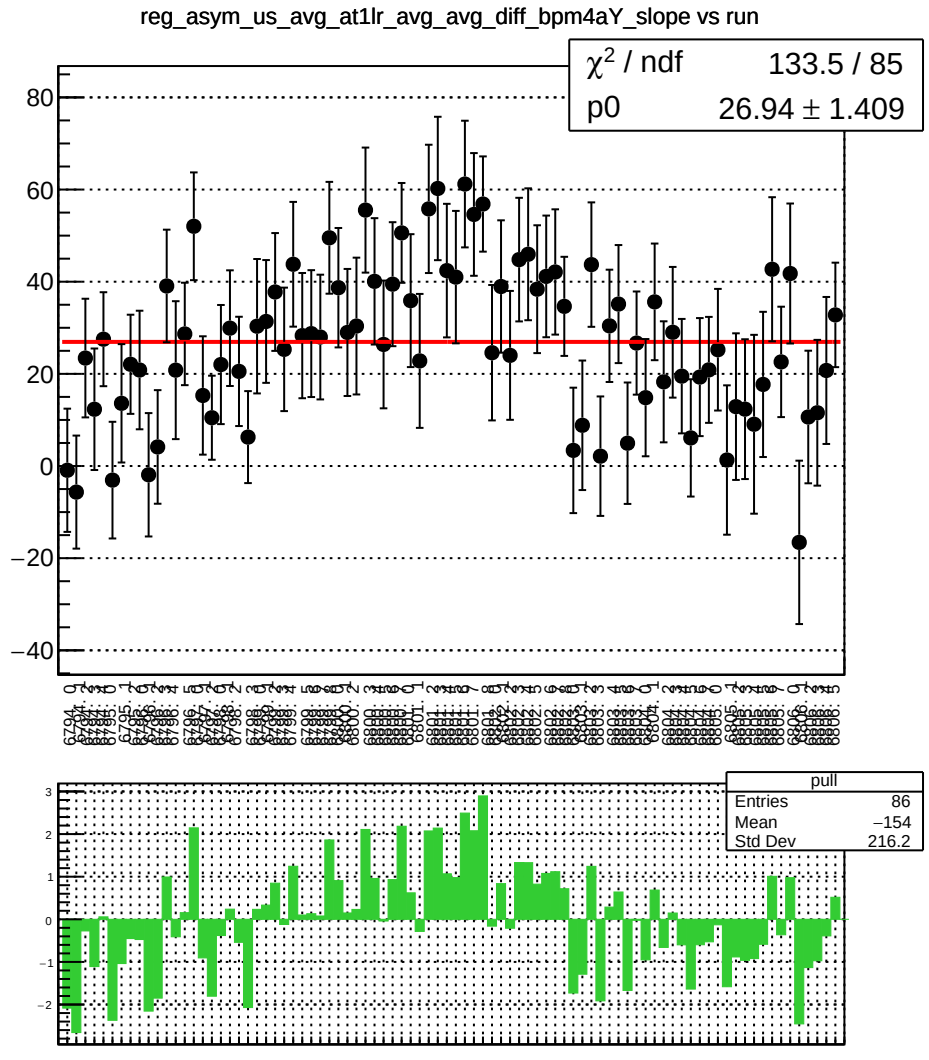

pull1D
Entries 86
Mean −0.0007402
Std Dev 0.4798

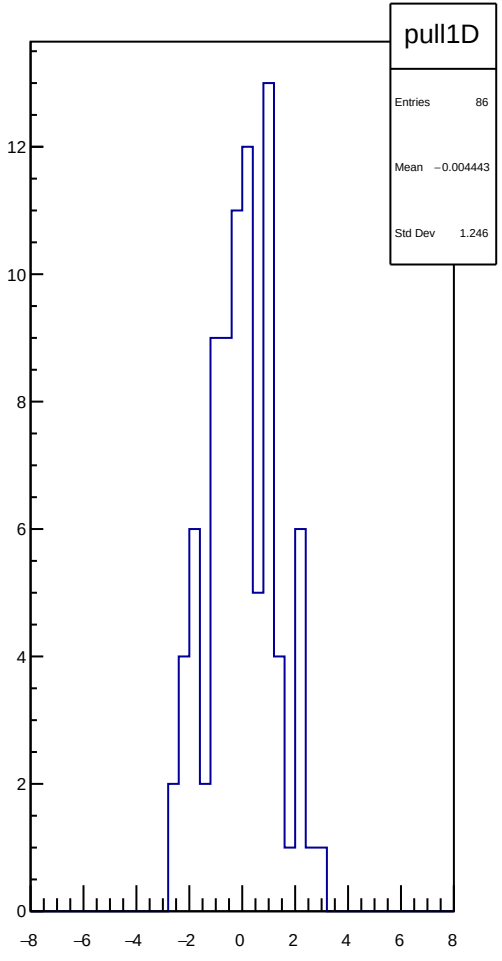

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 30.5 / 85
p0 104.4 ± 0.1299
pull
Entries 86
Mean 224.7
Std Dev 0

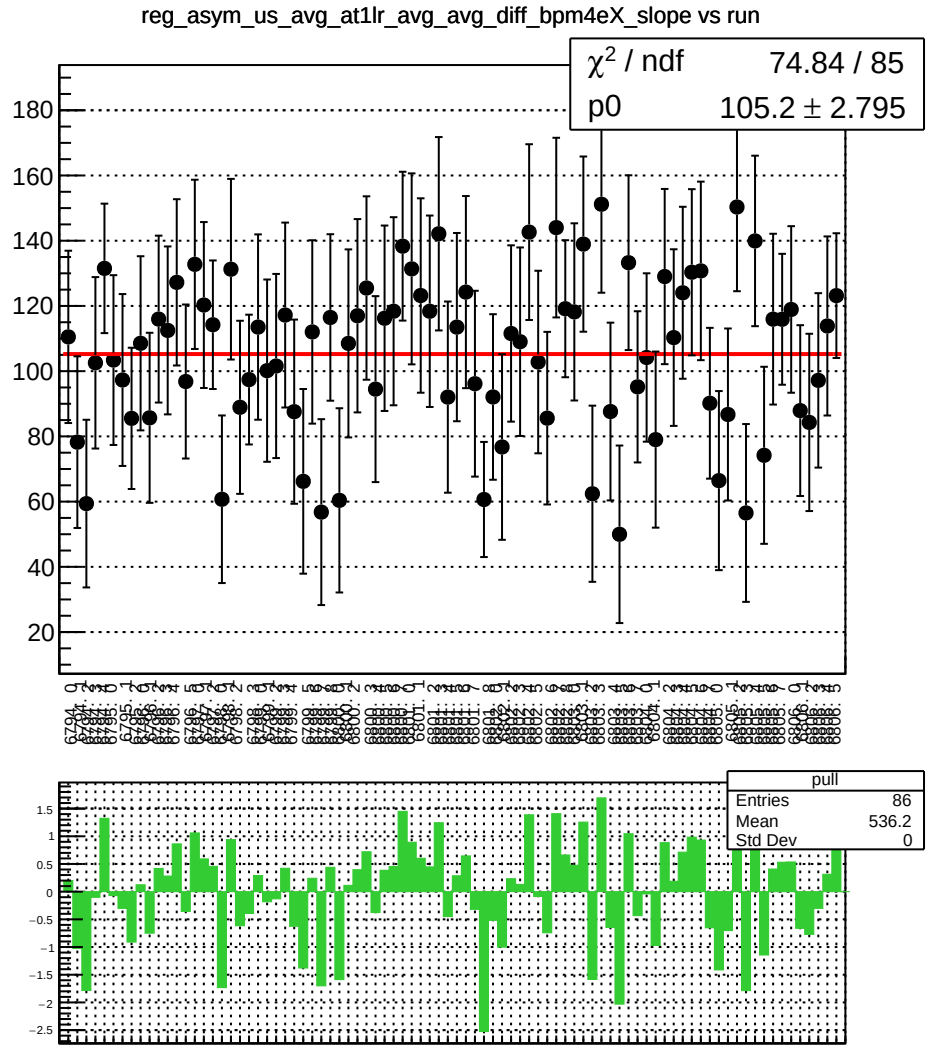

pull1D
Entries 86
Mean 0.01295
Std Dev 0.5954

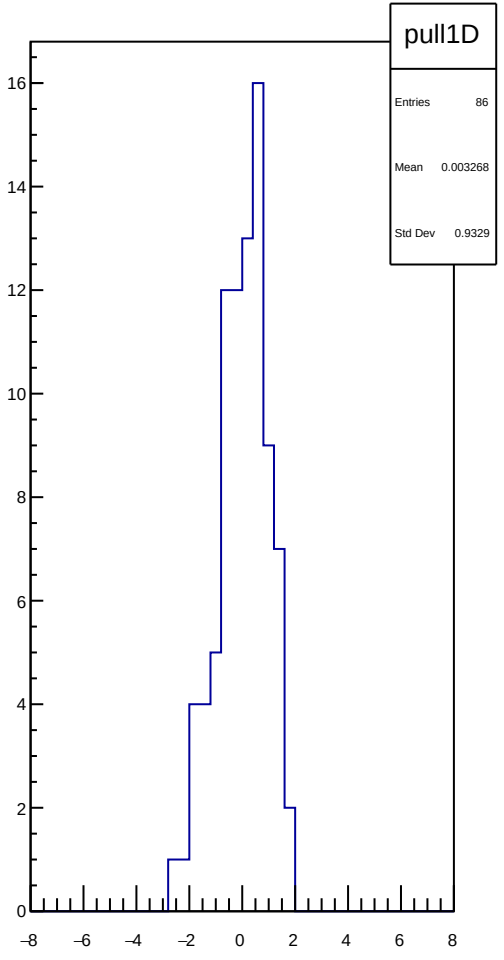

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 73.22 / 85
p0 −124.4 ± 2.986
pull
Entries 86
Mean 267.6
Std Dev 0

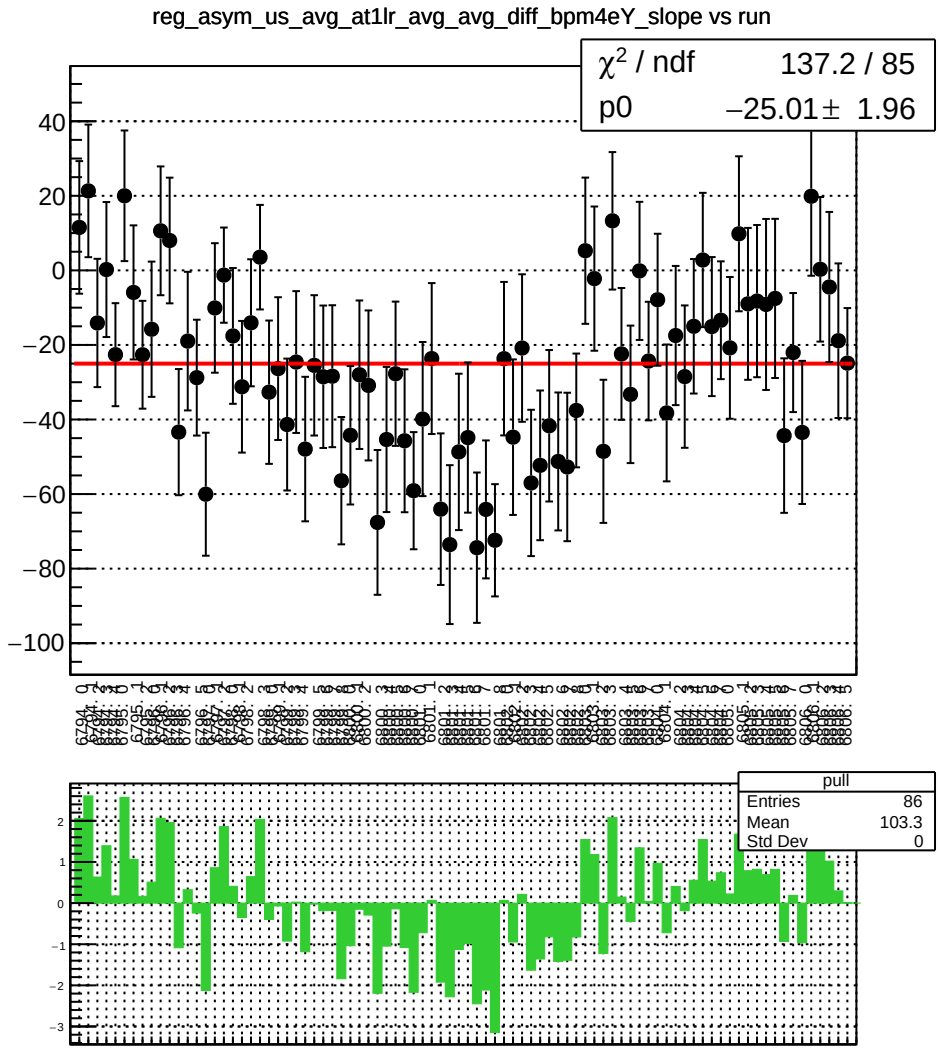

pull1D
Entries 86
Mean −0.005018
Std Dev 0.9227

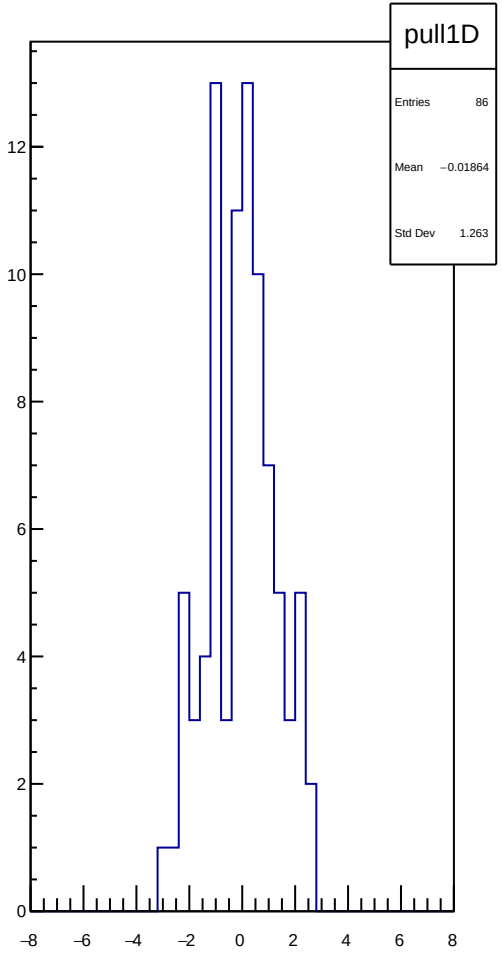

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 133.5 / 85
p0 26.94 ± 1.409
pull
Entries 86
Mean −154
Std Dev 216.2

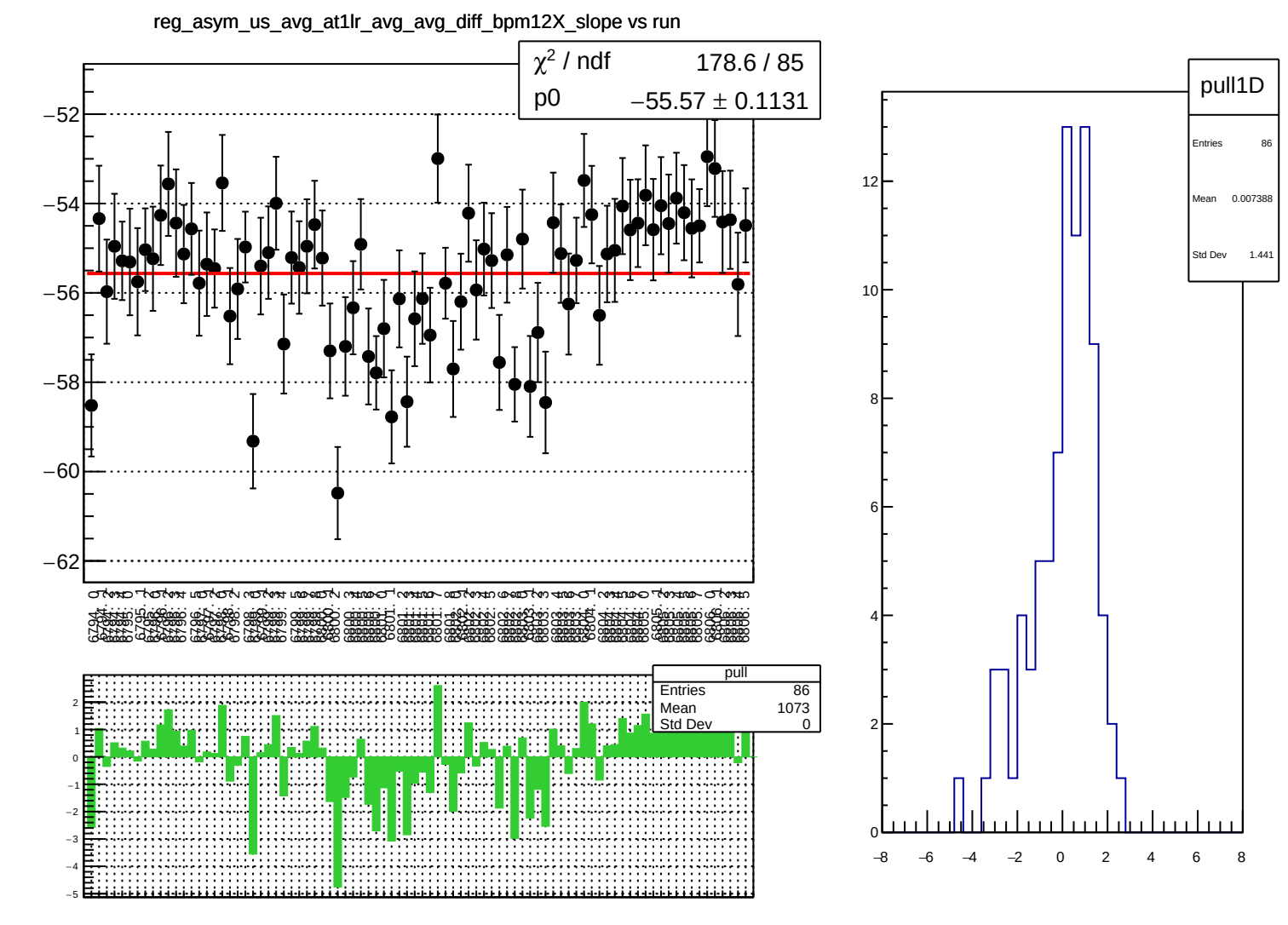

pull1D
Entries 86
Mean −0.004443
Std Dev 1.246

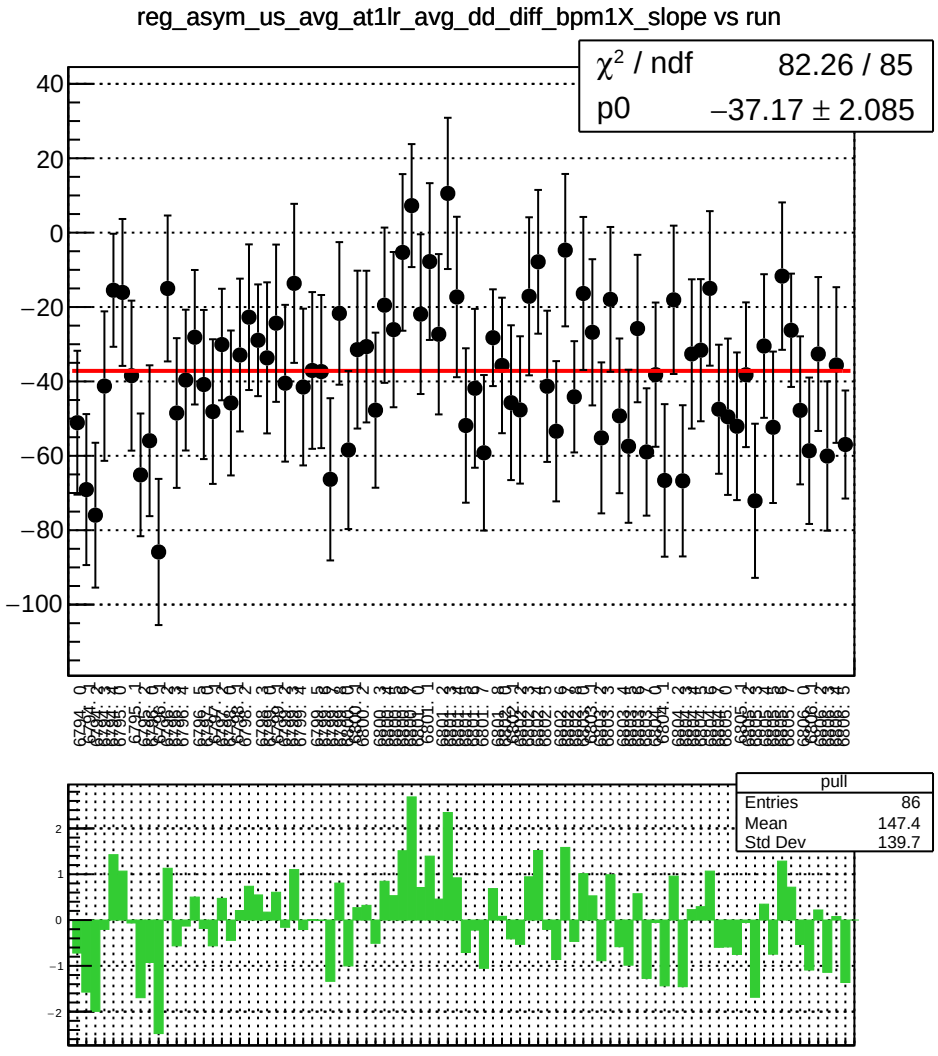

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.84 / 85
p0 105.2 ± 2.795
pull
Entries 86
Mean 536.2
Std Dev 0

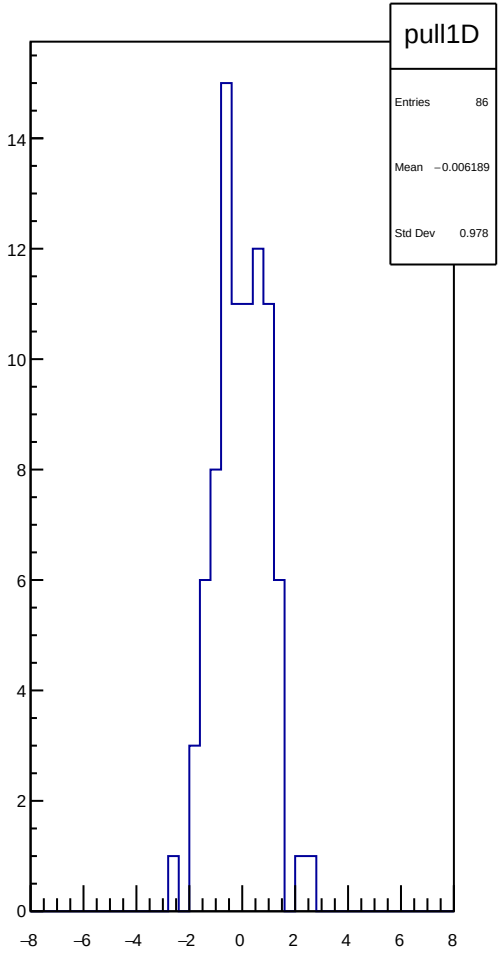

pull1D
Entries 86
Mean 0.003268
Std Dev 0.9329

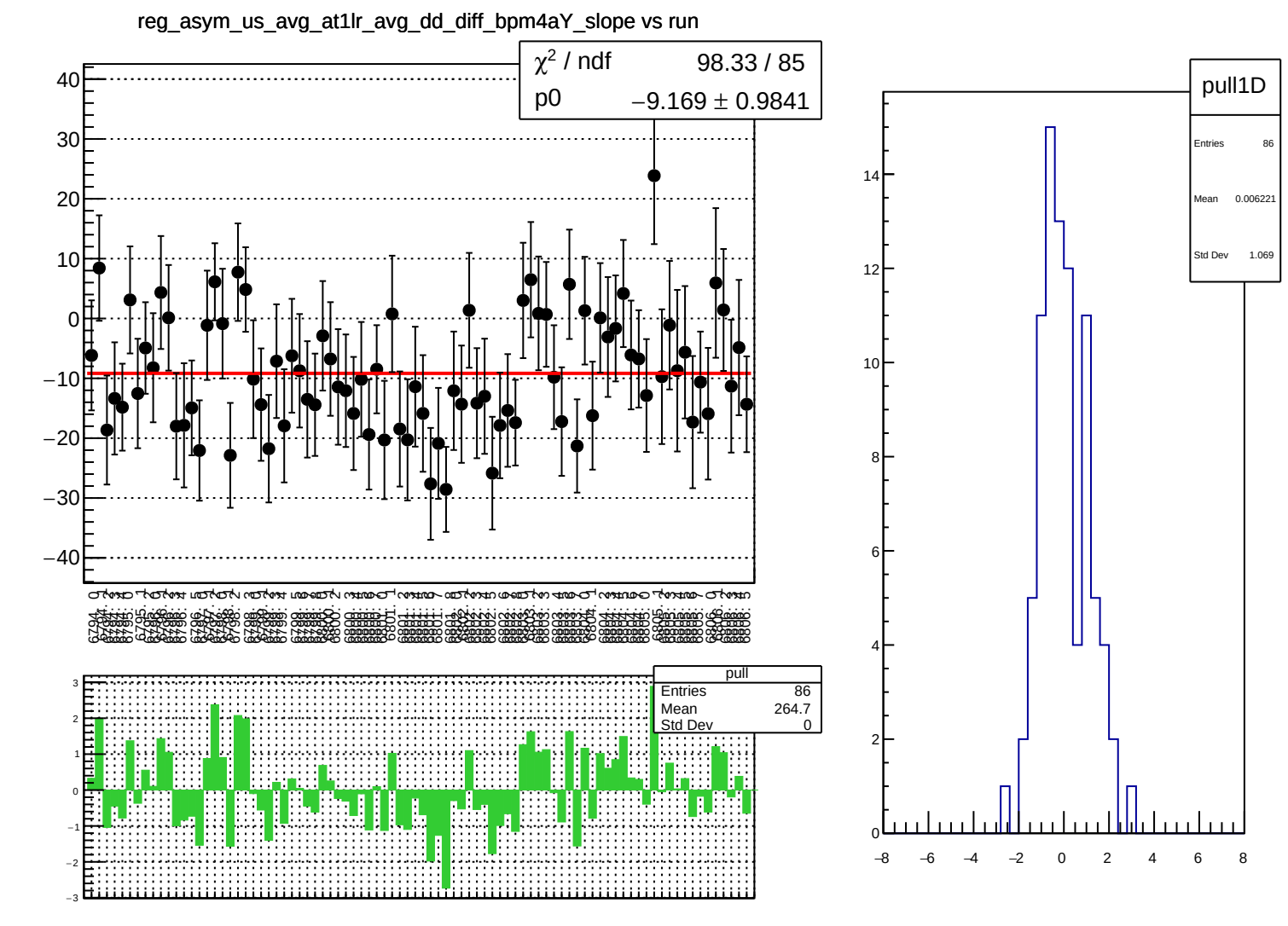

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 137.2 / 85
p0 −25.01 ± 1.96
pull
Entries 86
Mean 103.3
Std Dev 0

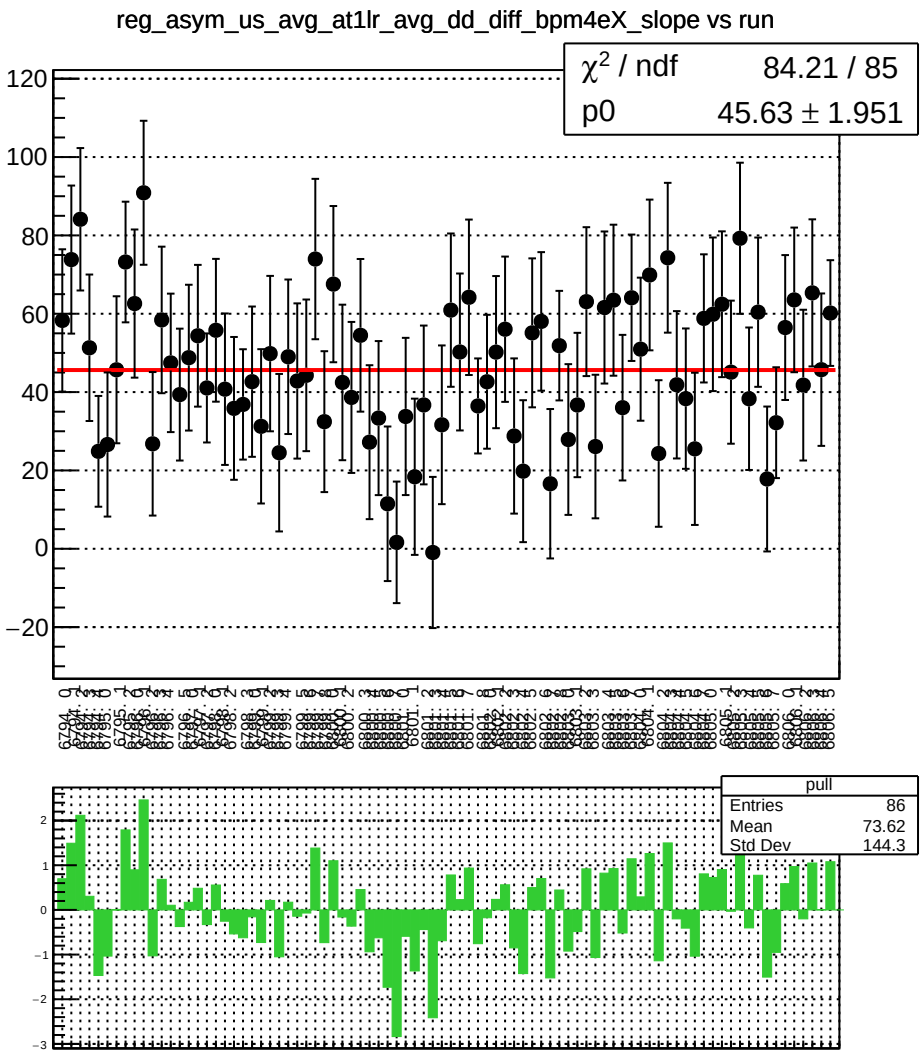

pull1D
Entries 86
Mean −0.01864
Std Dev 1.263

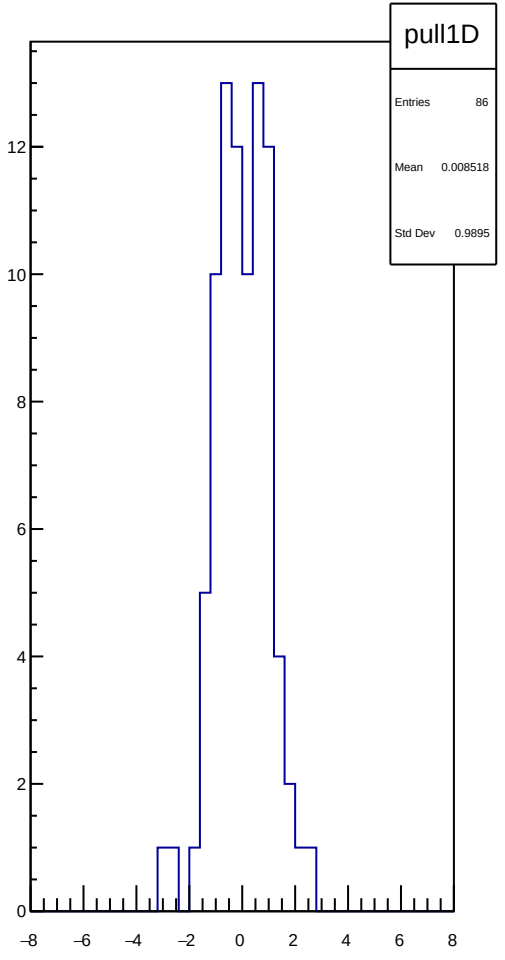

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 178.6 / 85
p0 −55.57 ± 0.1131
−52
−54
−56
−58
−60
−62
pull
Entries 86
Mean 1073
Std Dev 0
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 86
Mean 0.007388
Std Dev 1.441
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

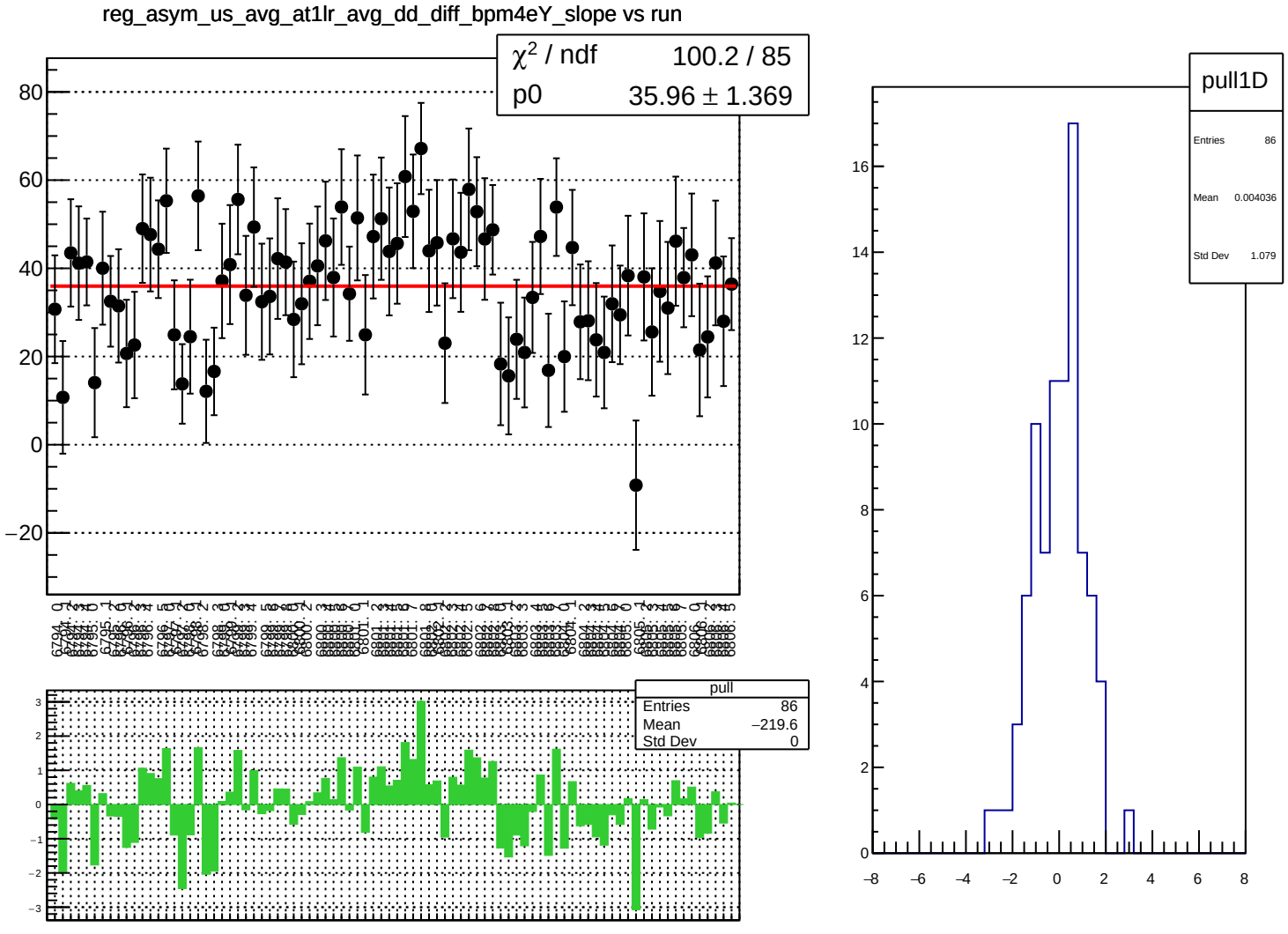

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 82.26 / 85
p0 −37.17 ± 2.085
pull
Entries 86
Mean 147.4
Std Dev 139.7

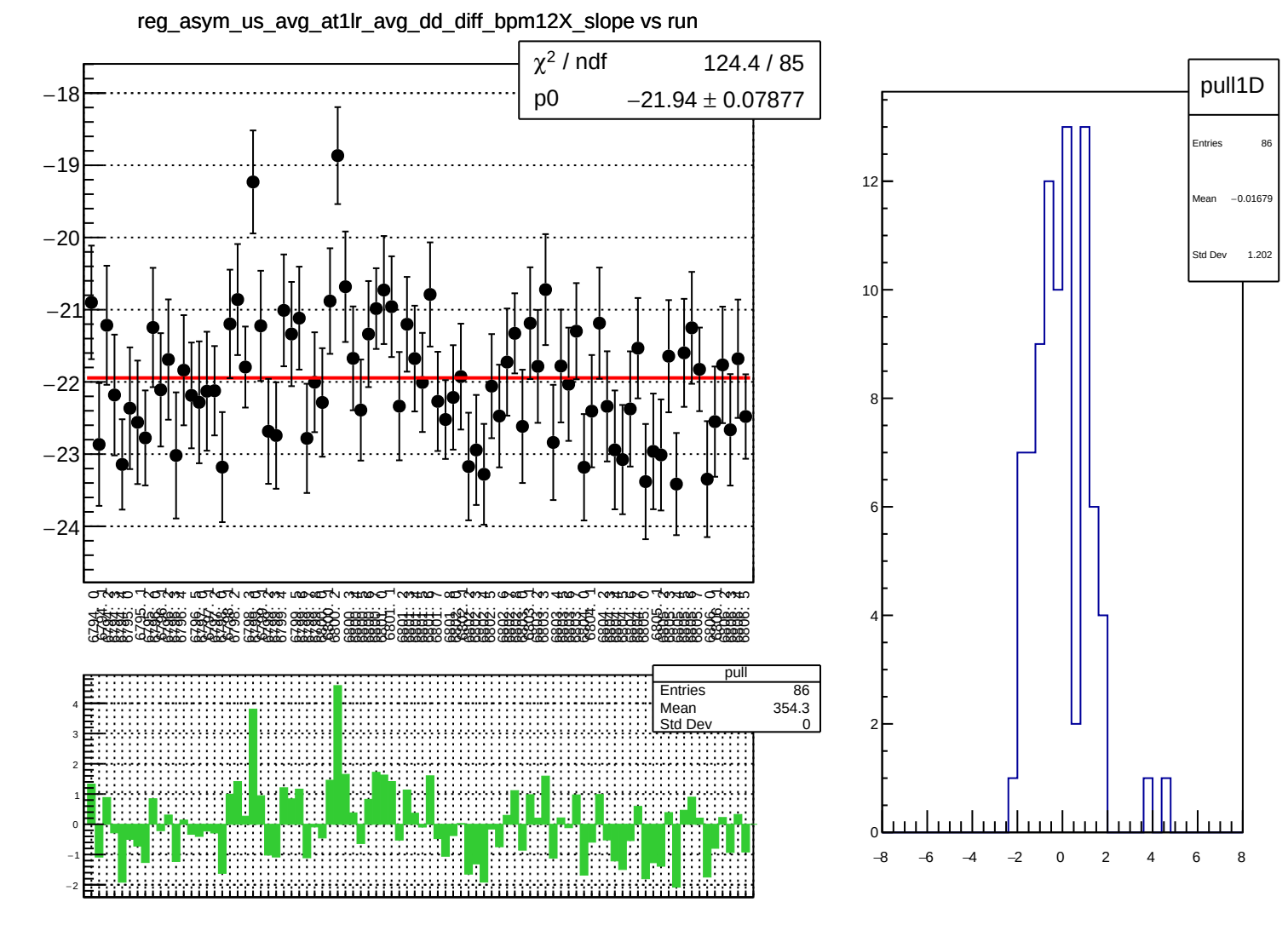

pull1D
Entries 86
Mean −0.006189
Std Dev 0.978

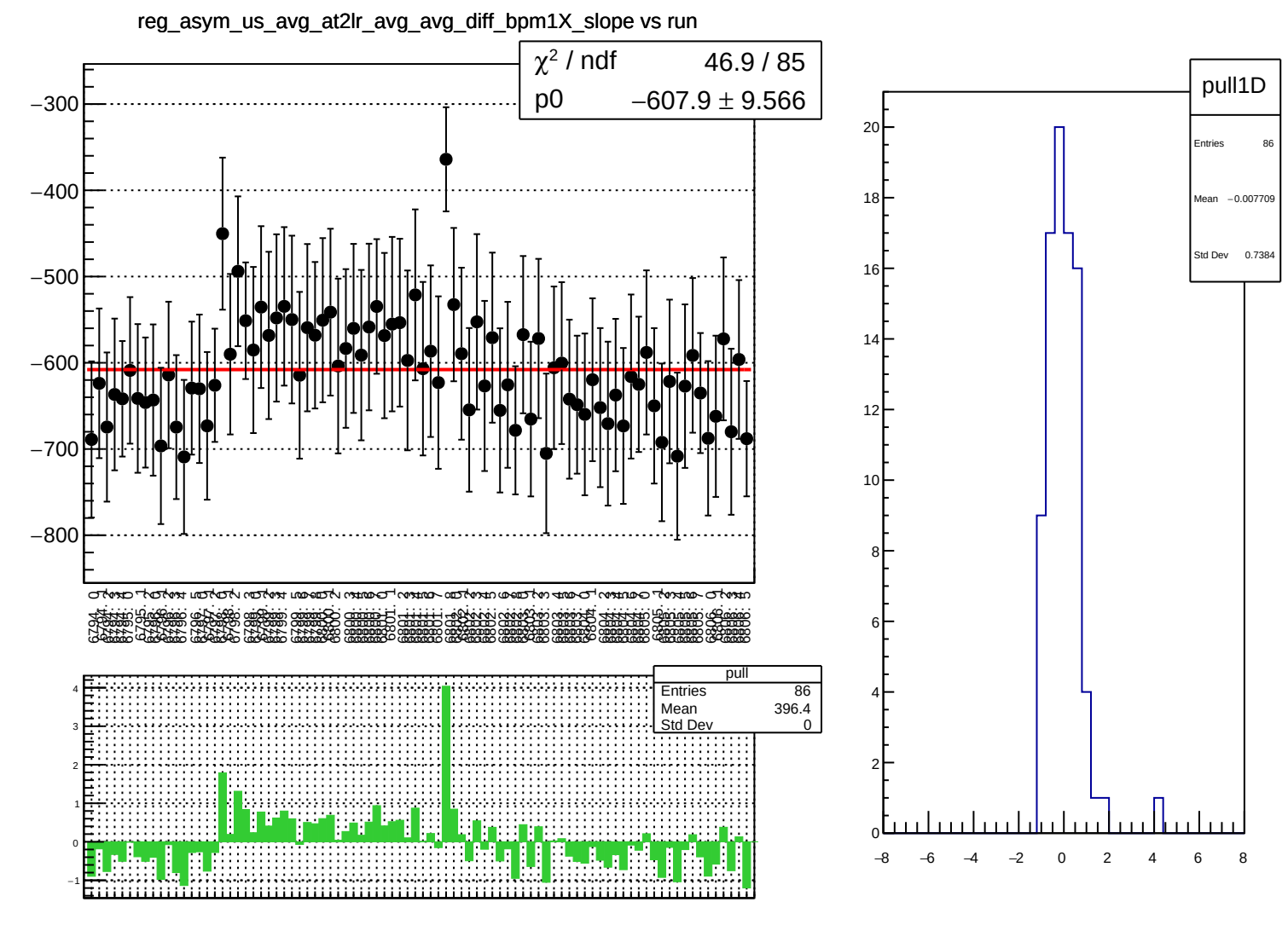

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.33 / 85
p0 −9.169 ± 0.9841
pull
Entries 86
Mean 264.7
Std Dev 0
pull1D
Entries 86
Mean 0.006221
Std Dev 1.069

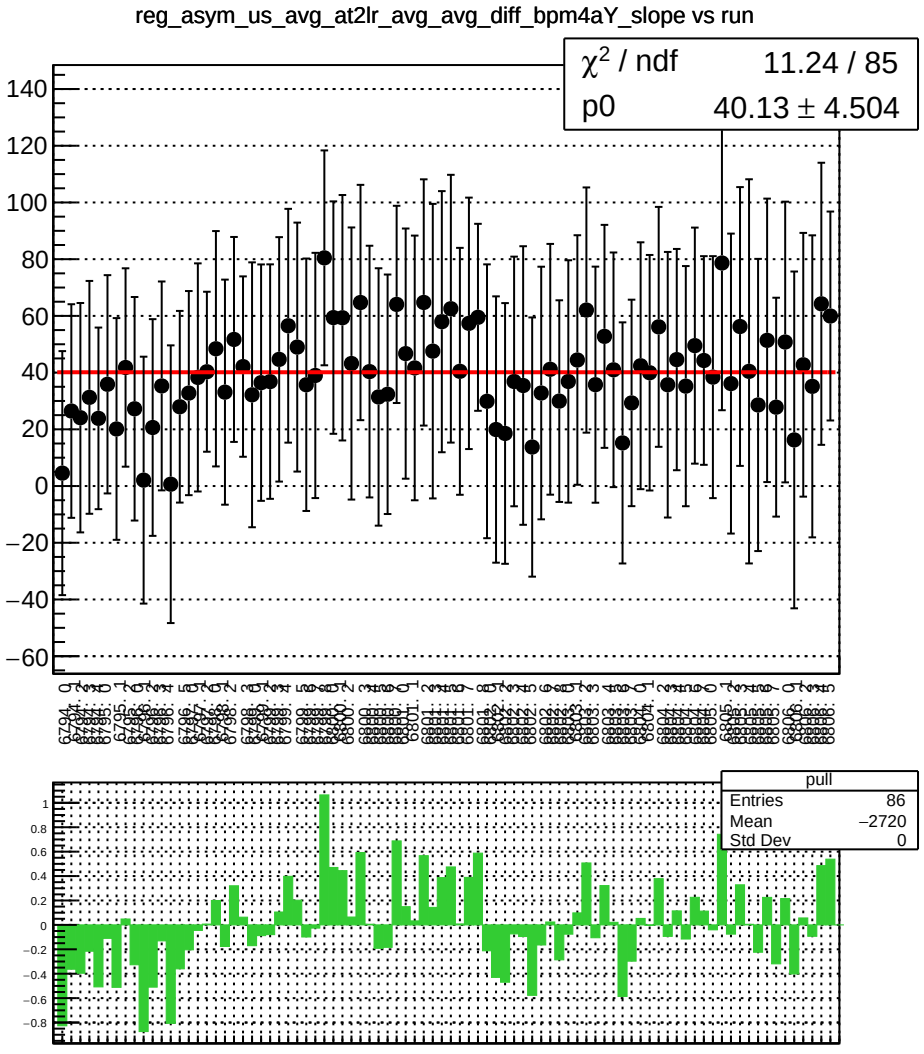

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.21 / 85
p0 45.63 ± 1.951
pull
Entries 86
Mean 73.62
Std Dev 144.3

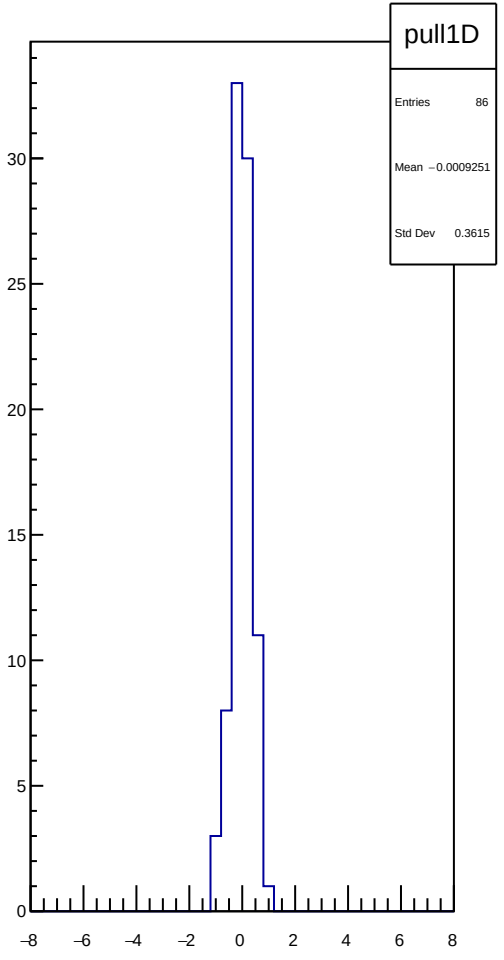

pull1D
Entries 86
Mean 0.008518
Std Dev 0.9895

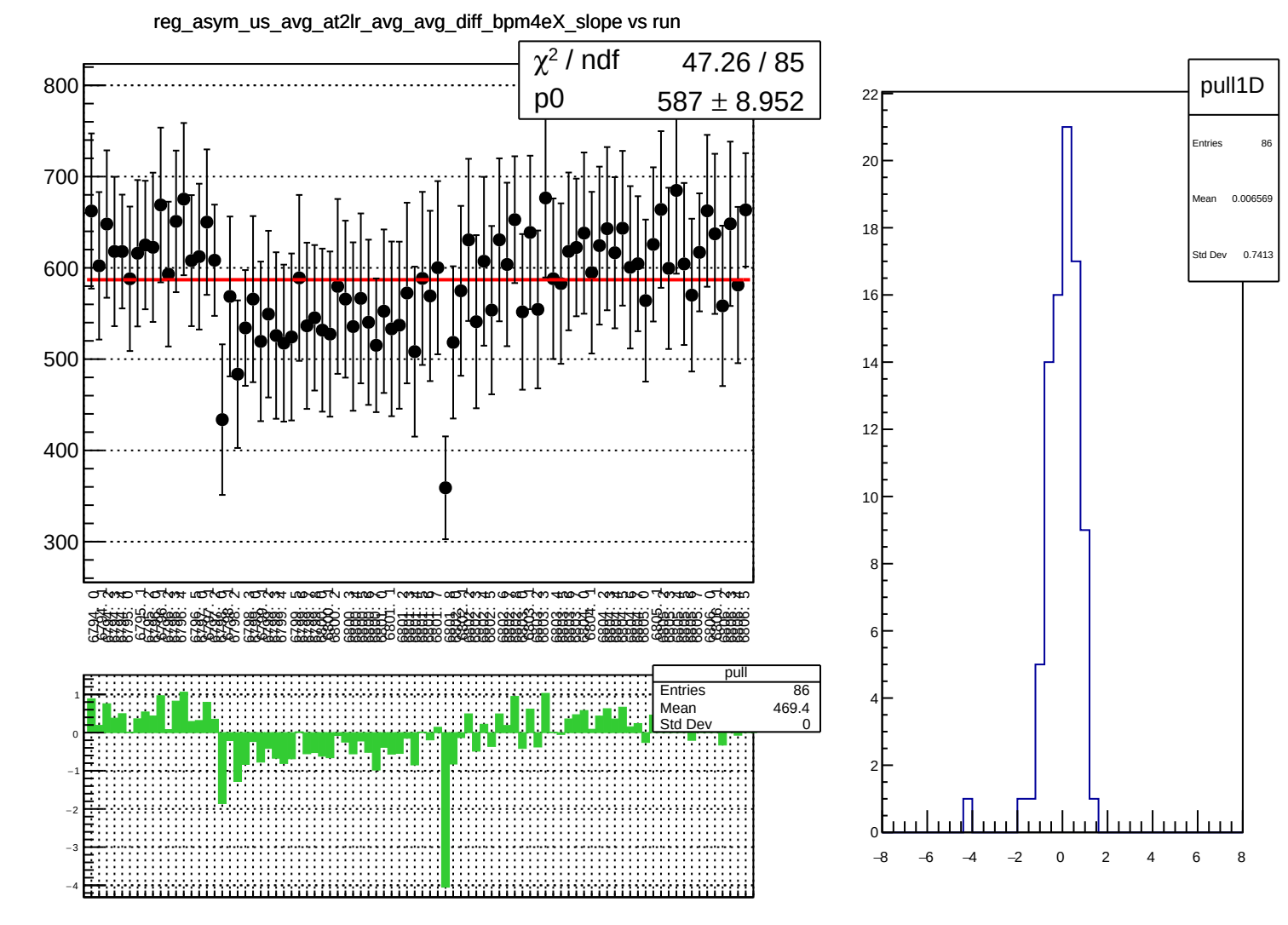

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 100.2 / 85
p0 35.96 ± 1.369
pull
Entries 86
Mean −219.6
Std Dev 0
pull1D
Entries 86
Mean 0.004036
Std Dev 1.079

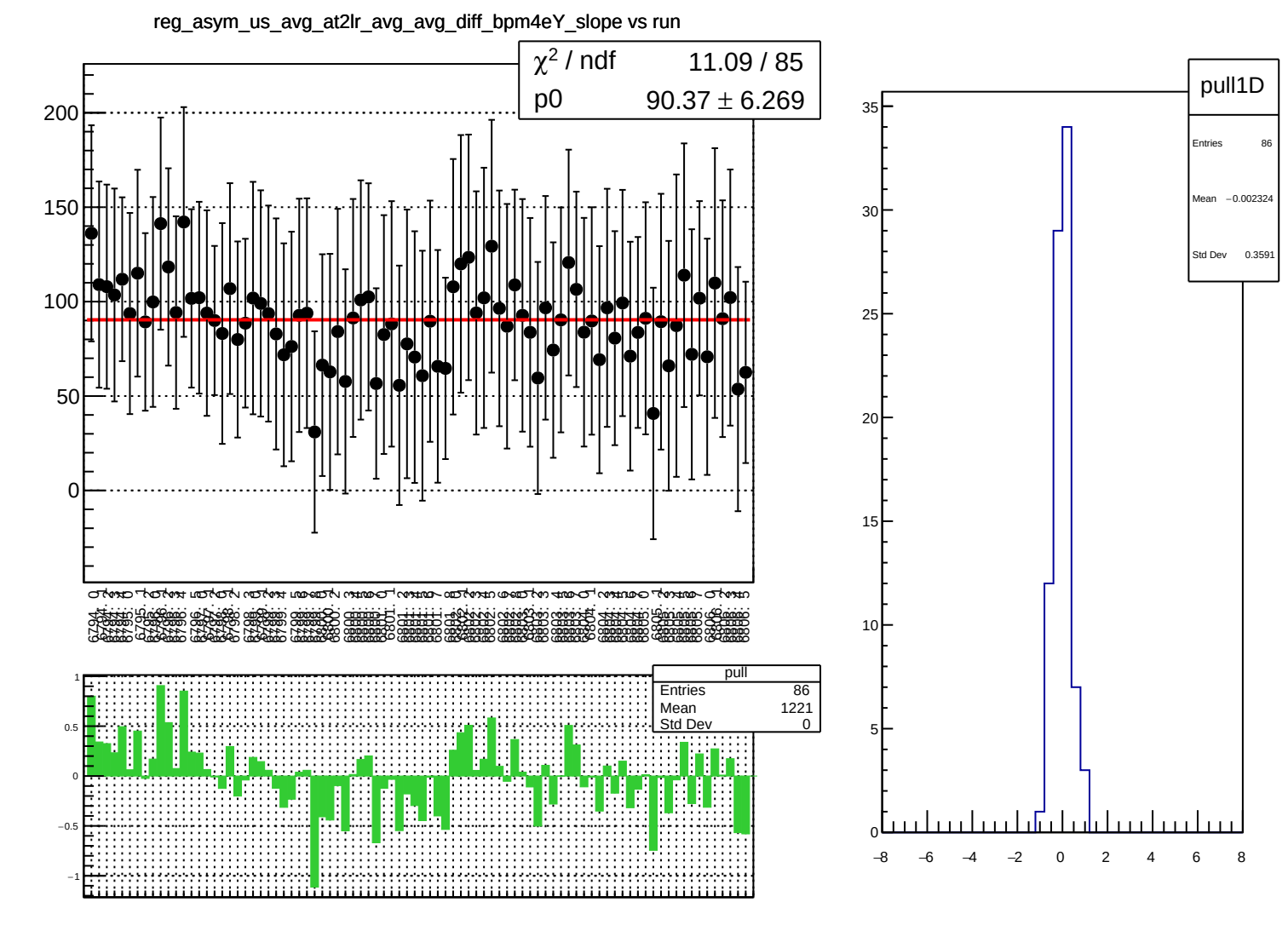

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 124.4 / 85
p0 −21.94 ± 0.07877
−18
−19
−20
−21
−22
−23
−24
pull
Entries 86
Mean 354.3
Std Dev 0
pull1D
Entries 86
Mean −0.01679
Std Dev 1.202
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

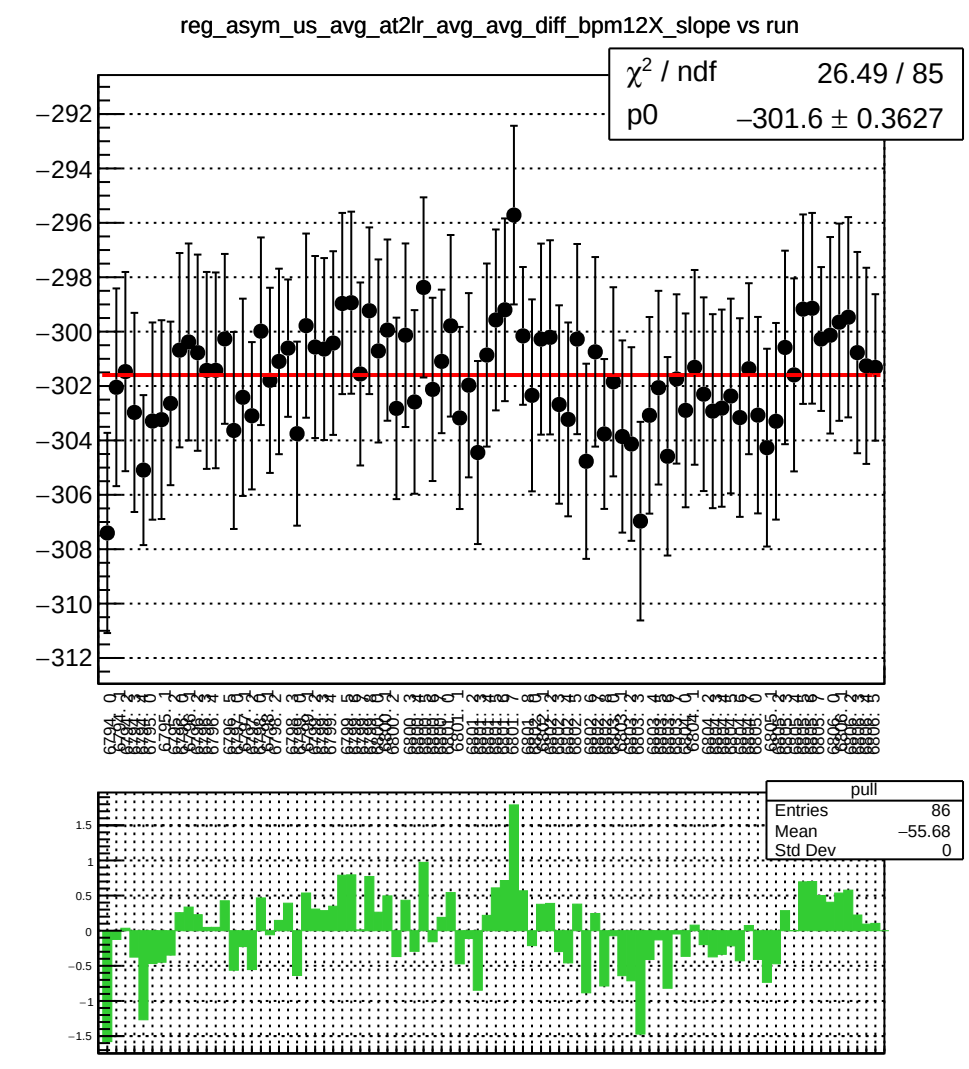

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 46.9 / 85
p0 −607.9 ± 9.566
−300
−400
−500
−600
−700
−800
pull
Entries 86
Mean 396.4
Std Dev 0
pull1D
Entries 86
Mean −0.007709
Std Dev 0.7384

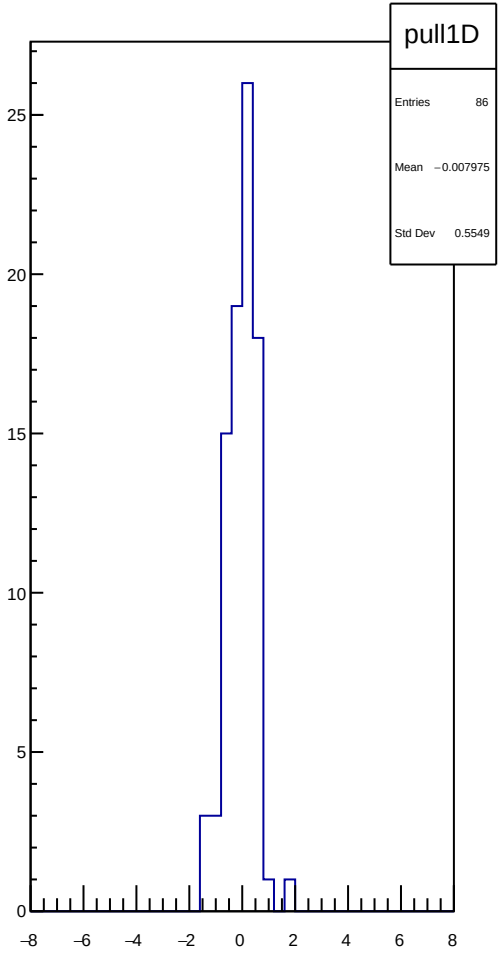

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.24 / 85
p0 40.13 ± 4.504
pull
Entries 86
Mean −2720
Std Dev 0

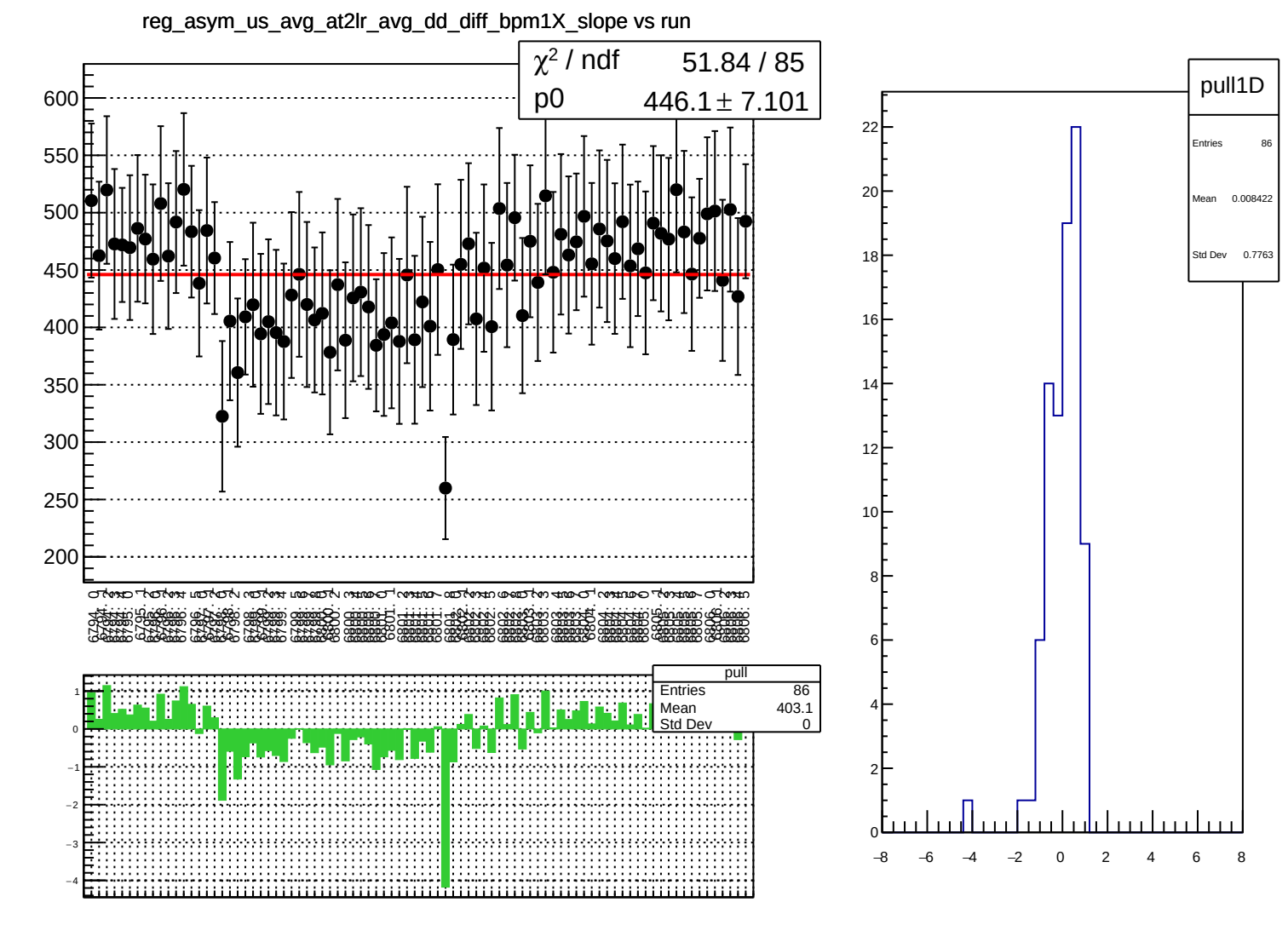

pull1D
Entries 86
Mean −0.0009251
Std Dev 0.3615

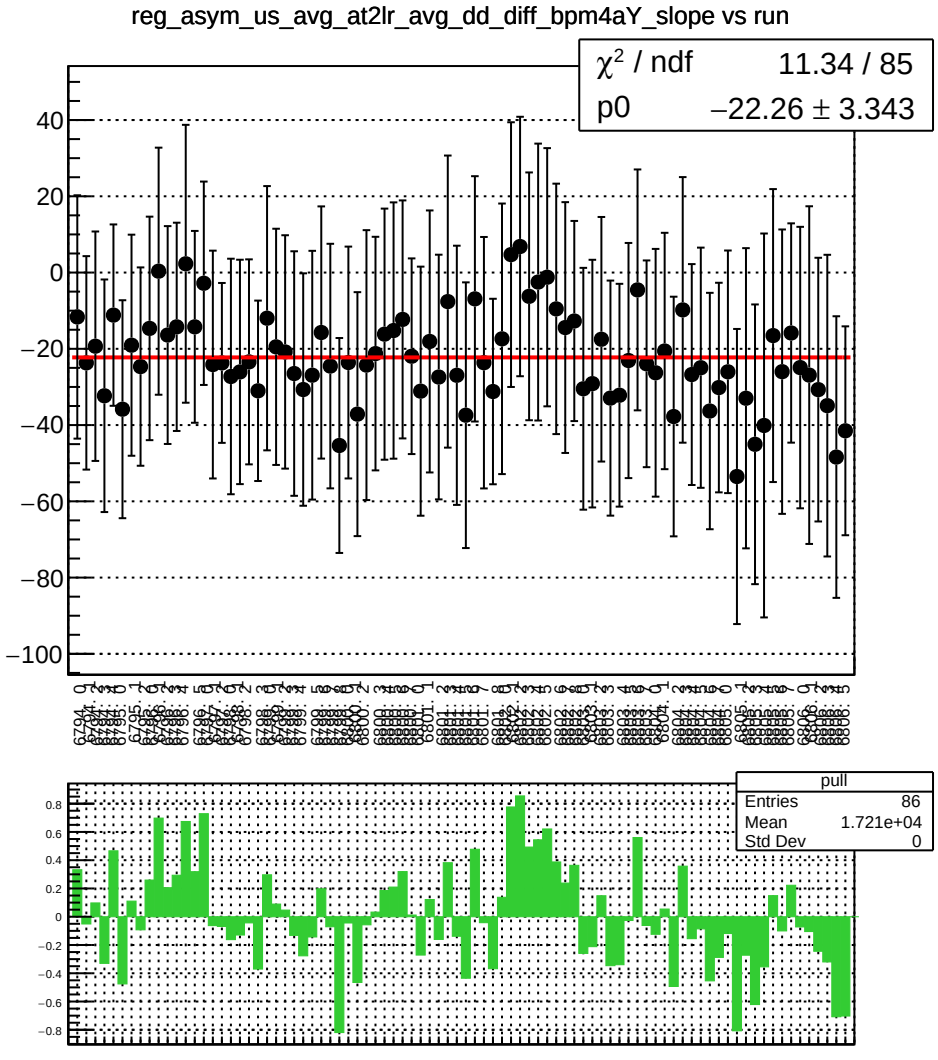

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.26 / 85
p0 587 ± 8.952
800
700
600
500
400
300
pull
Entries 86
Mean 469.4
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 86
Mean 0.006569
Std Dev 0.7413
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

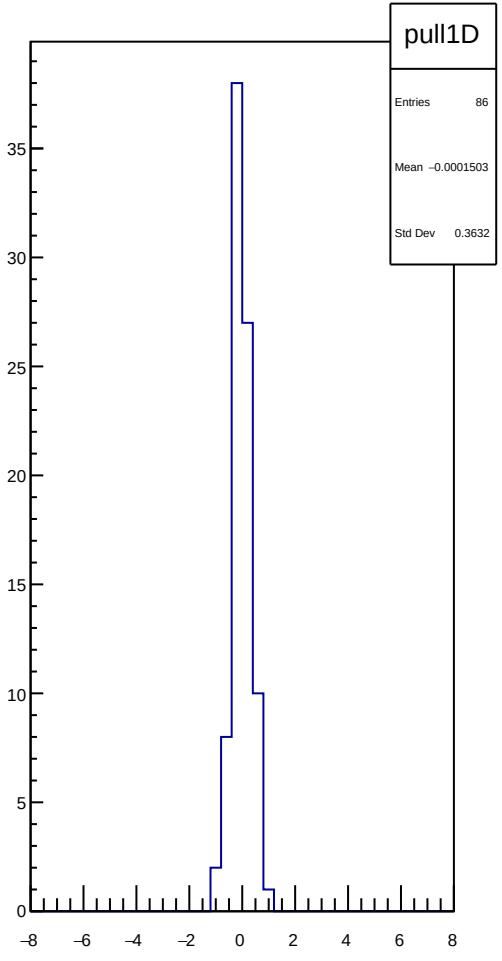

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.09 / 85
p0 90.37 ± 6.269
200
150
100
50
0
pull
Entries 86
Mean 1221
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 86
Mean −0.002324
Std Dev 0.3591
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

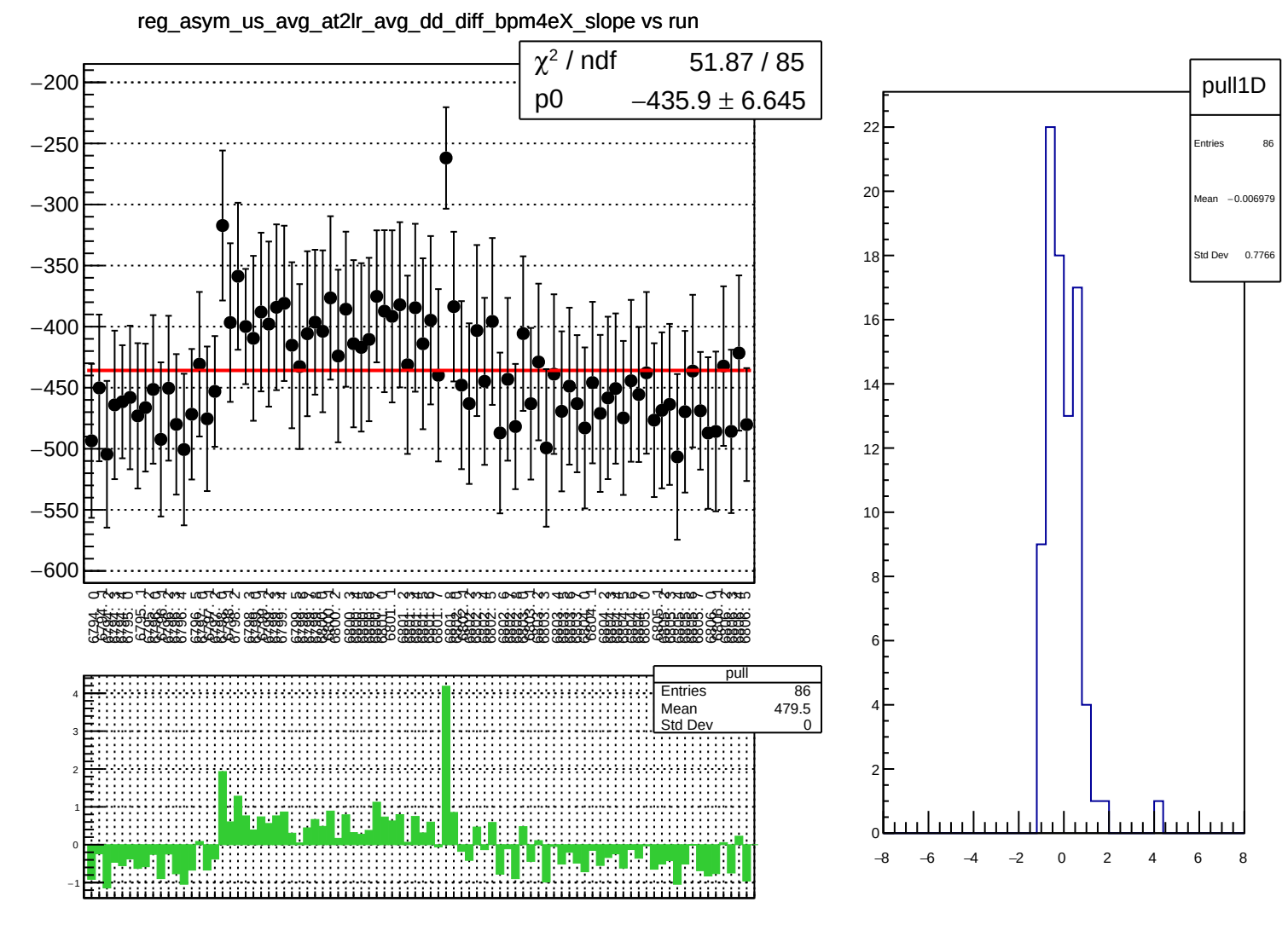

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 26.49 / 85
p0 −301.6 ± 0.3627
pull
Entries 86
Mean −55.68
Std Dev 0

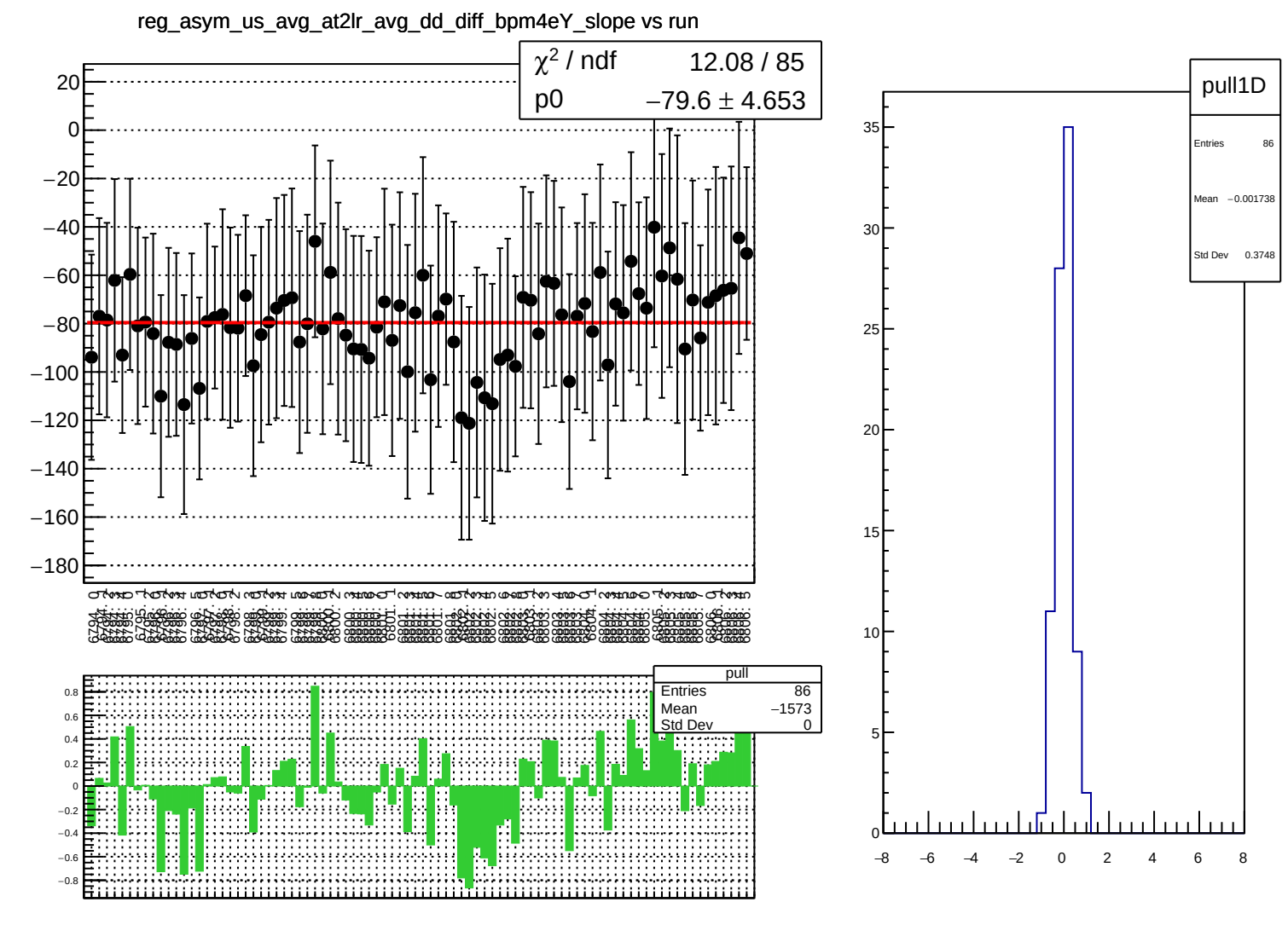

pull1D
Entries 86
Mean −0.007975
Std Dev 0.5549

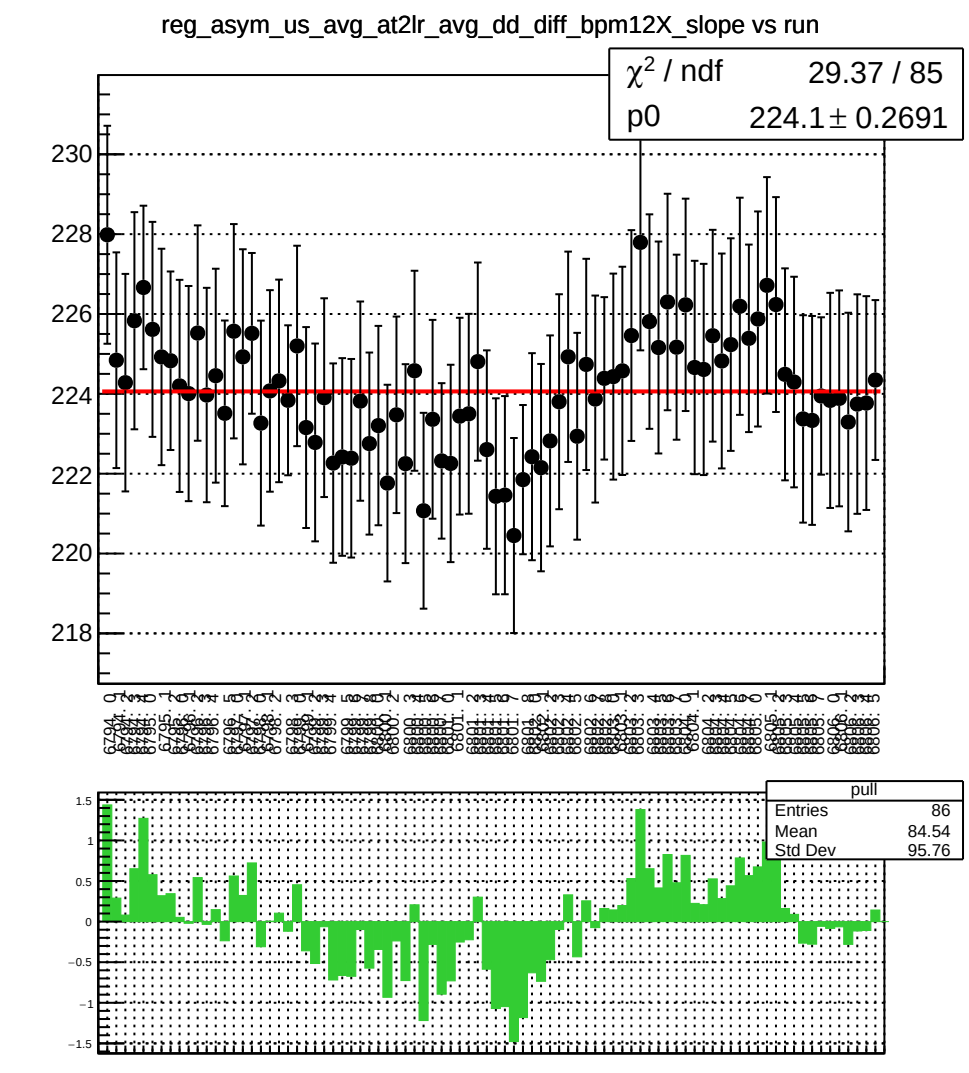

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 51.84 / 85
p0 446.1 ± 7.101
pull
Entries 86
Mean 403.1
Std Dev 0
pull1D
Entries 86
Mean 0.008422
Std Dev 0.7763

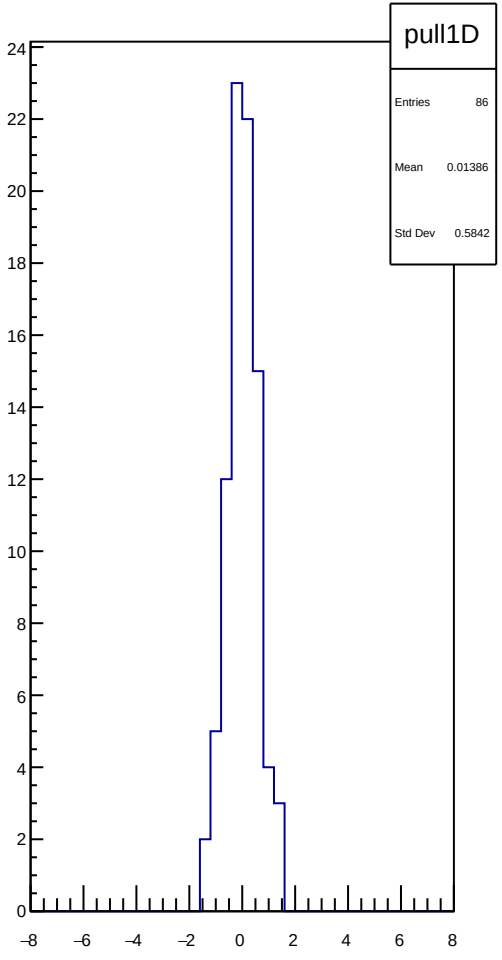

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.34 / 85
p0 −22.26 ± 3.343
pull
Entries 86
Mean 1.721e+04
Std Dev 0

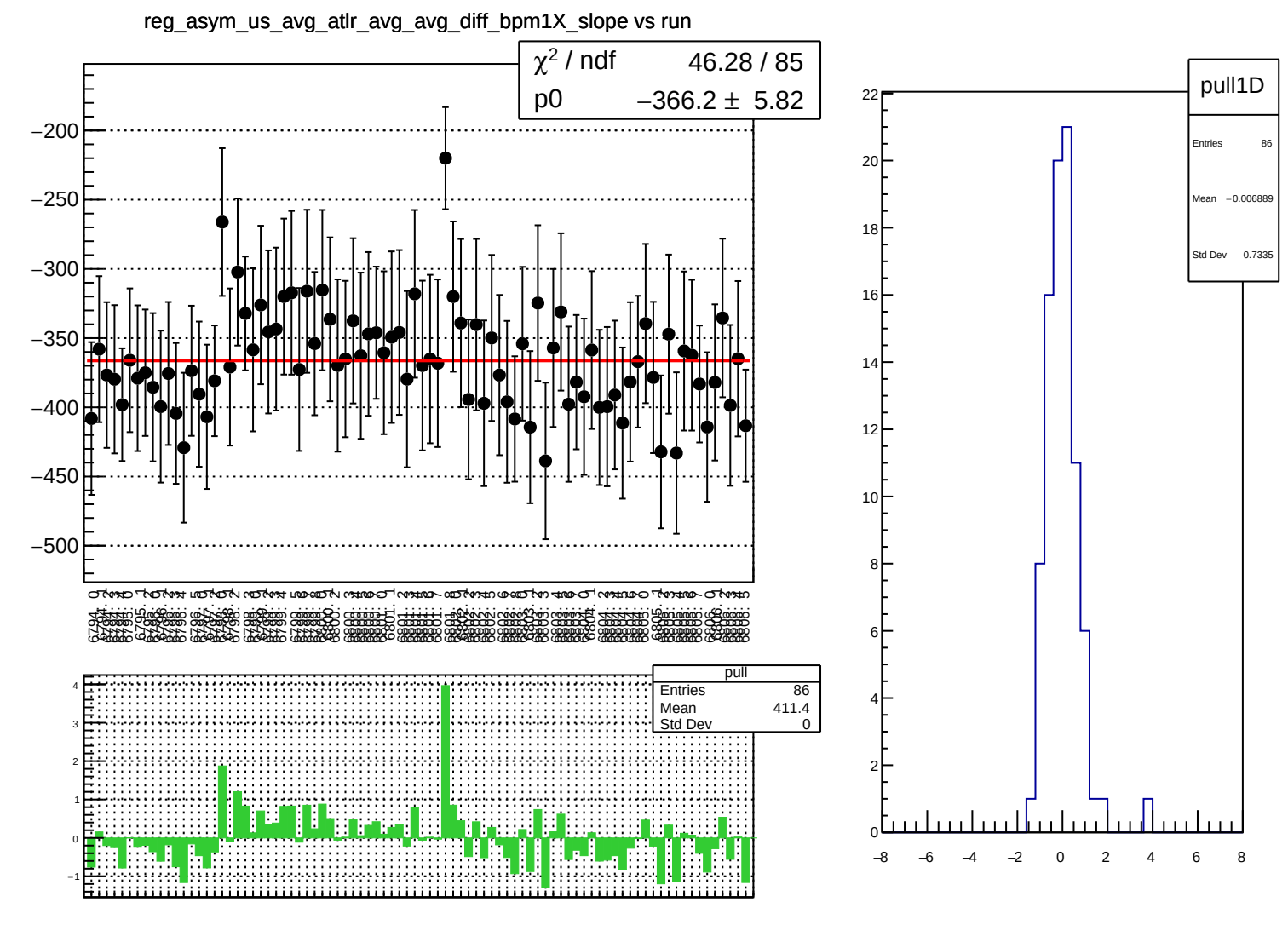

pull1D
Entries 86
Mean −0.0001503
Std Dev 0.3632

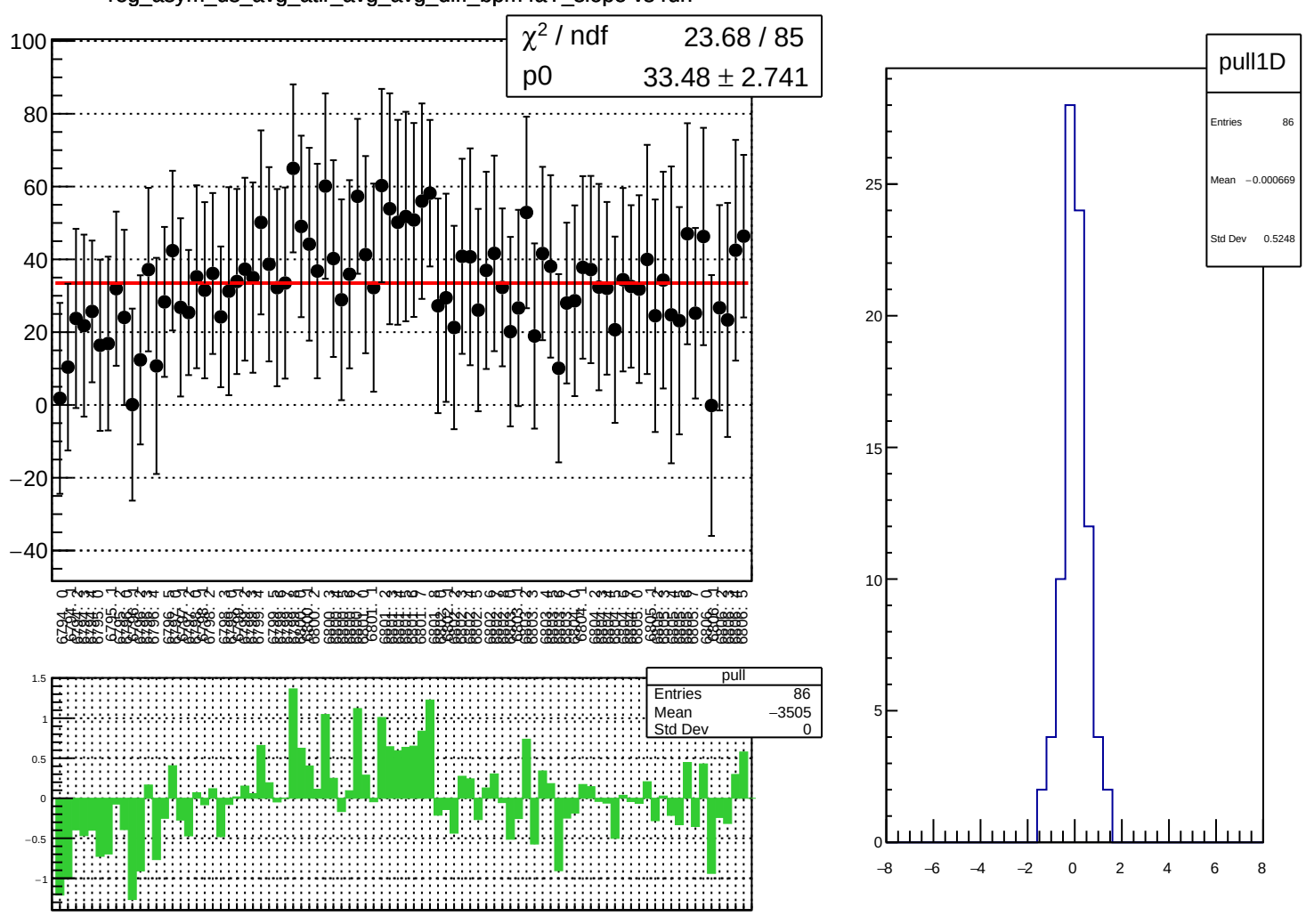

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.87 / 85
p0 −435.9 ± 6.645
pull
Entries 86
Mean 479.5
Std Dev 0
pull1D
Entries 86
Mean −0.006979
Std Dev 0.7766

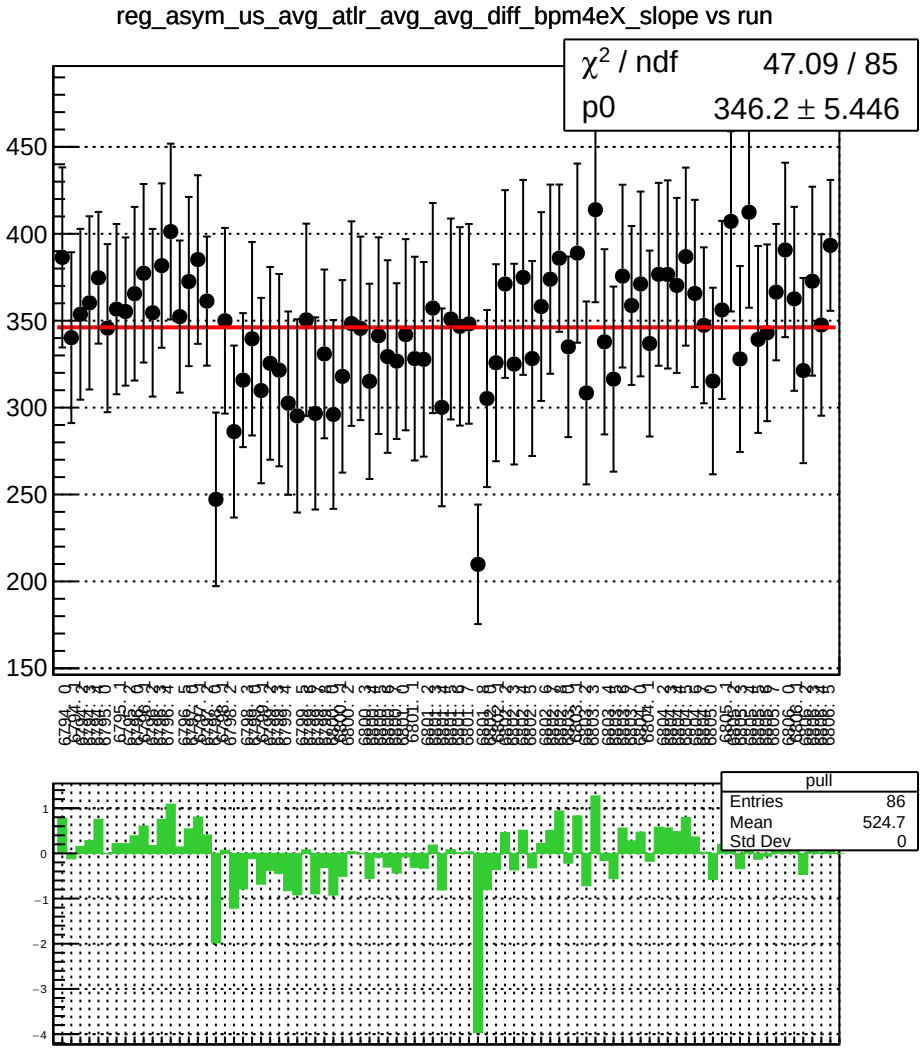

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.08 / 85
p0 −79.6 ± 4.653
pull
Entries 86
Mean −1573
Std Dev 0
pull1D
Entries 86
Mean −0.001738
Std Dev 0.3748

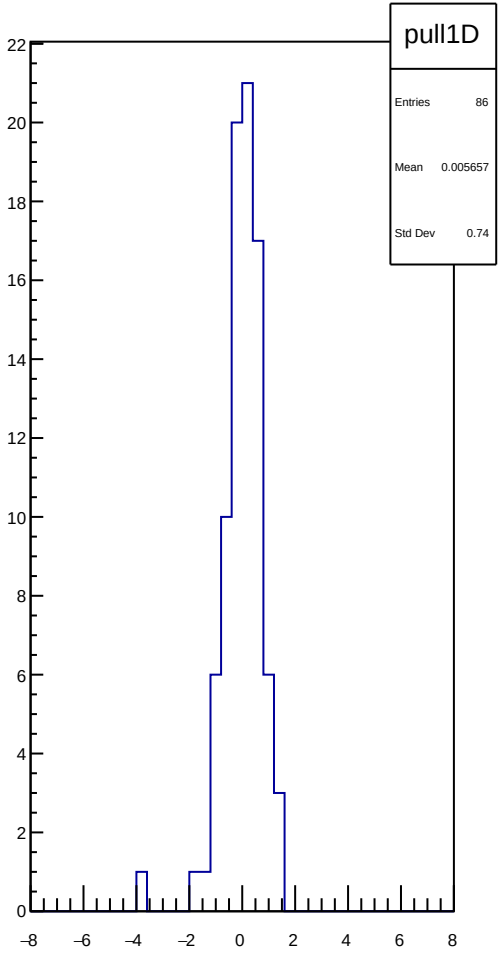

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 29.37 / 85
p0 224.1 ± 0.2691
pull
Entries 86
Mean 84.54
Std Dev 95.76

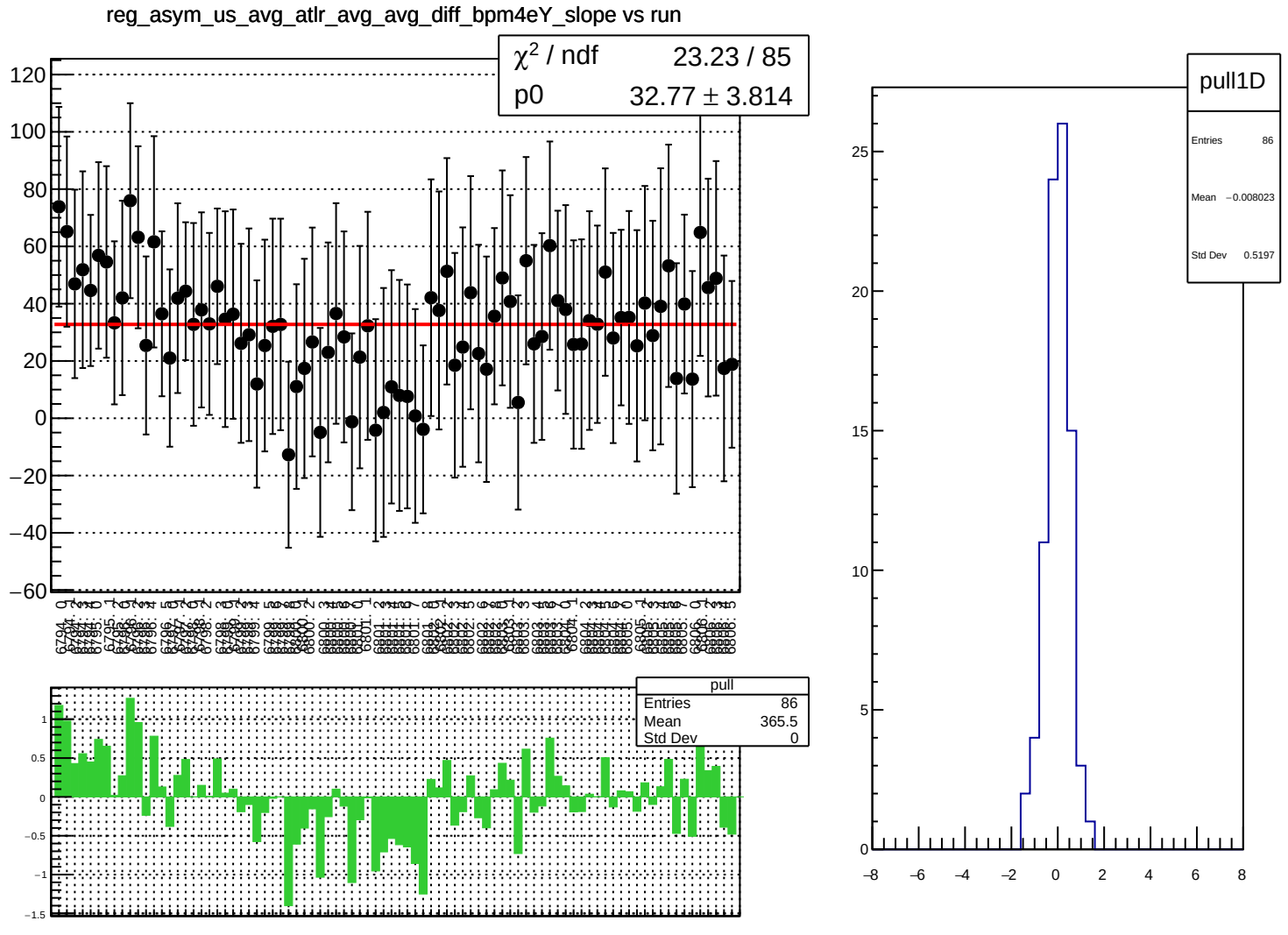

pull1D
Entries 86
Mean 0.01386
Std Dev 0.5842

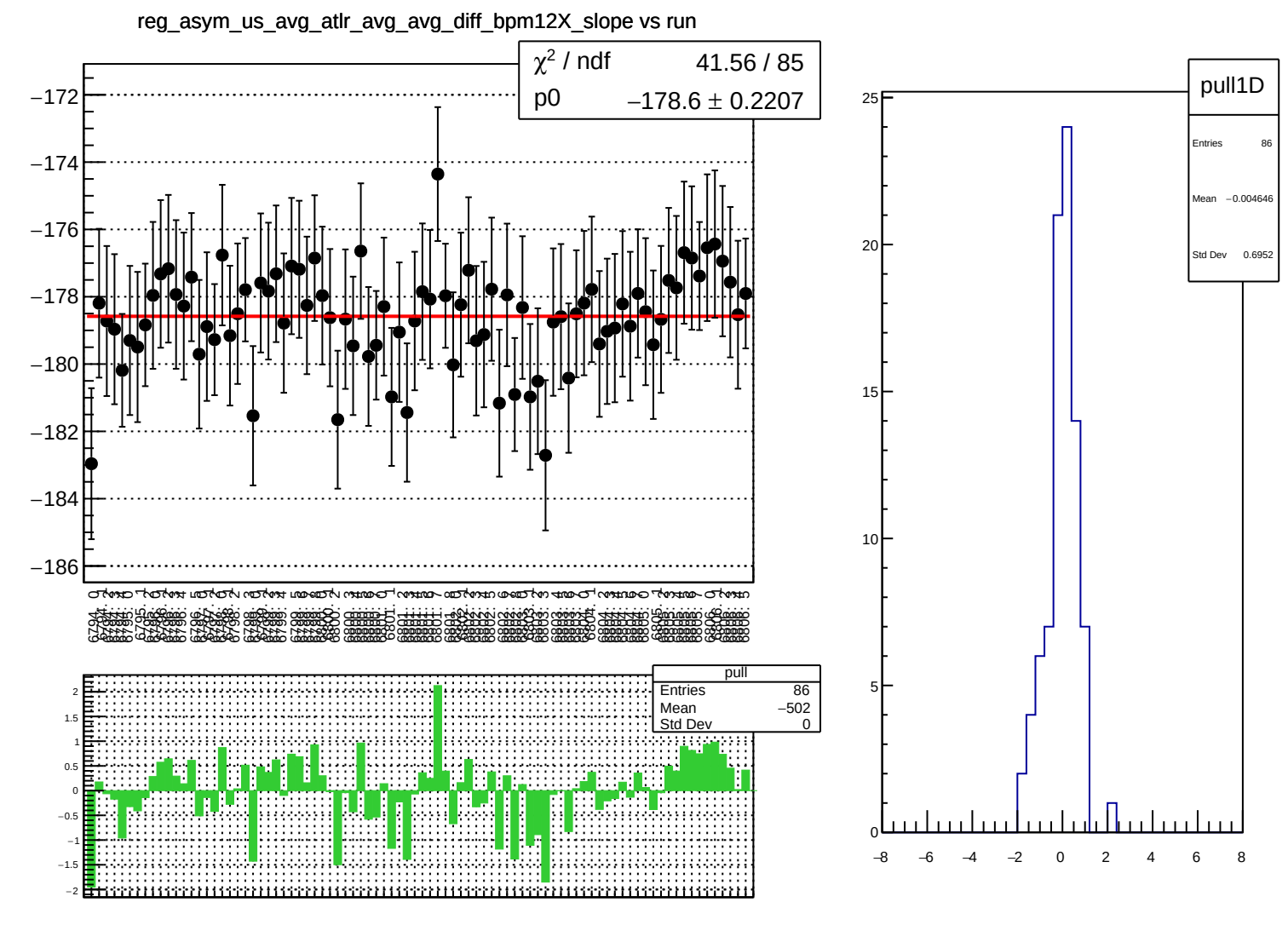

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 46.28 / 85
p0 −366.2 ± 5.82
pull
Entries 86
Mean 411.4
Std Dev 0
pull1D
Entries 86
Mean −0.006889
Std Dev 0.7335

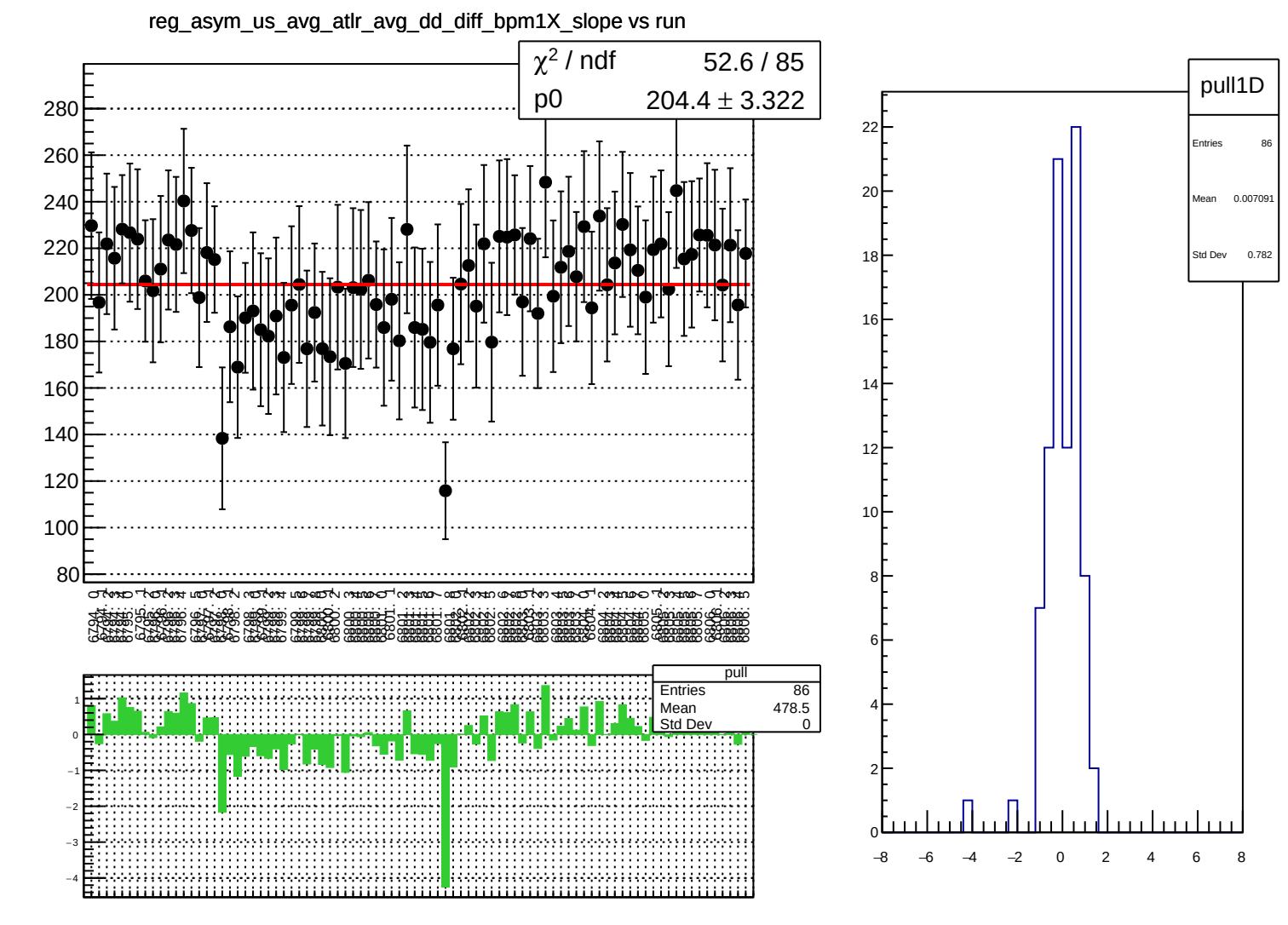

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.68 / 85
p0 33.48 ± 2.741
pull
Entries 86
Mean −3505
Std Dev 0
pull1D
Entries 86
Mean −0.000669
Std Dev 0.5248

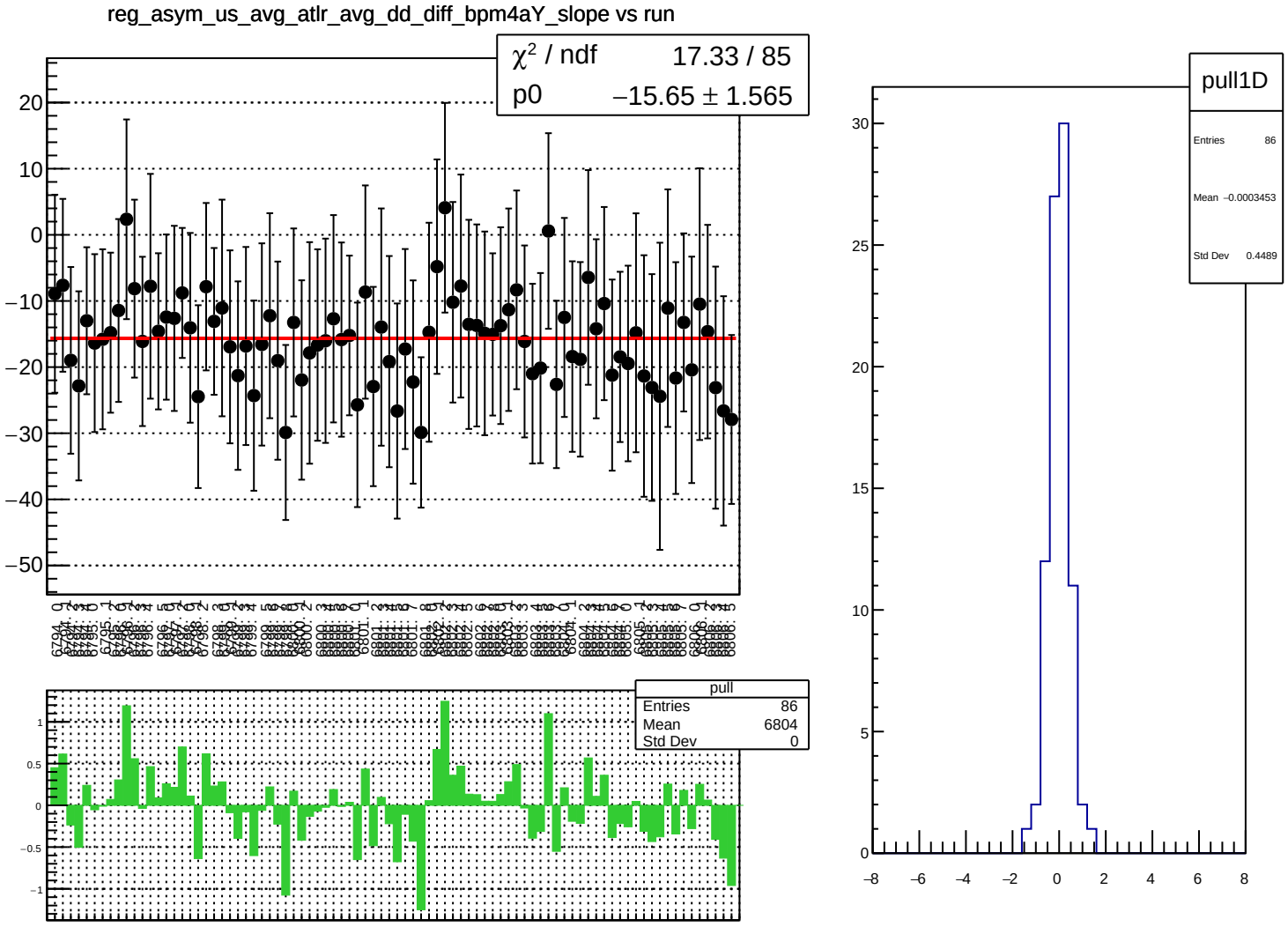

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.09 / 85
p0 346.2 ± 5.446
pull
Entries 86
Mean 524.7
Std Dev 0

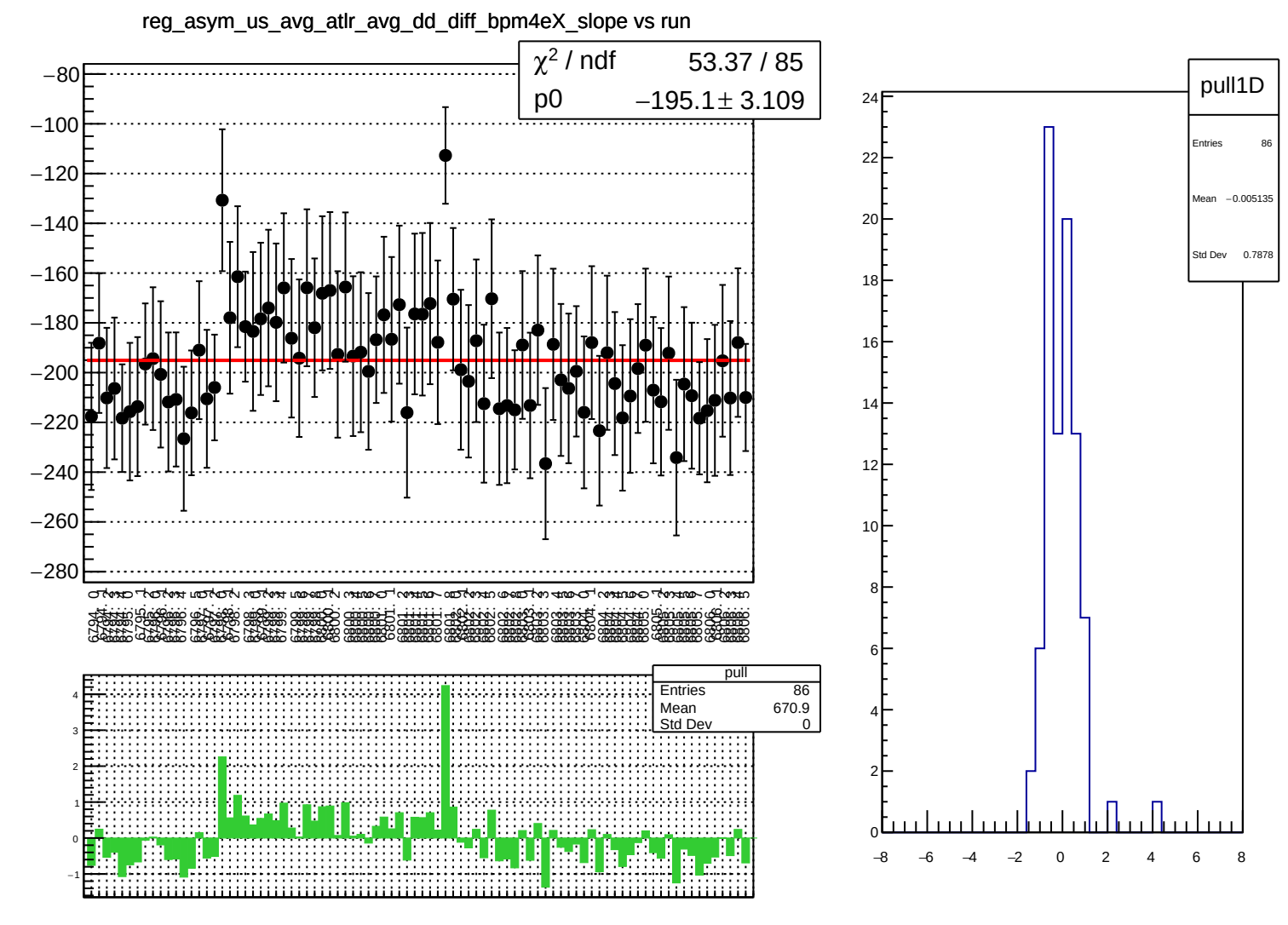

pull1D
Entries 86
Mean 0.005657
Std Dev 0.74

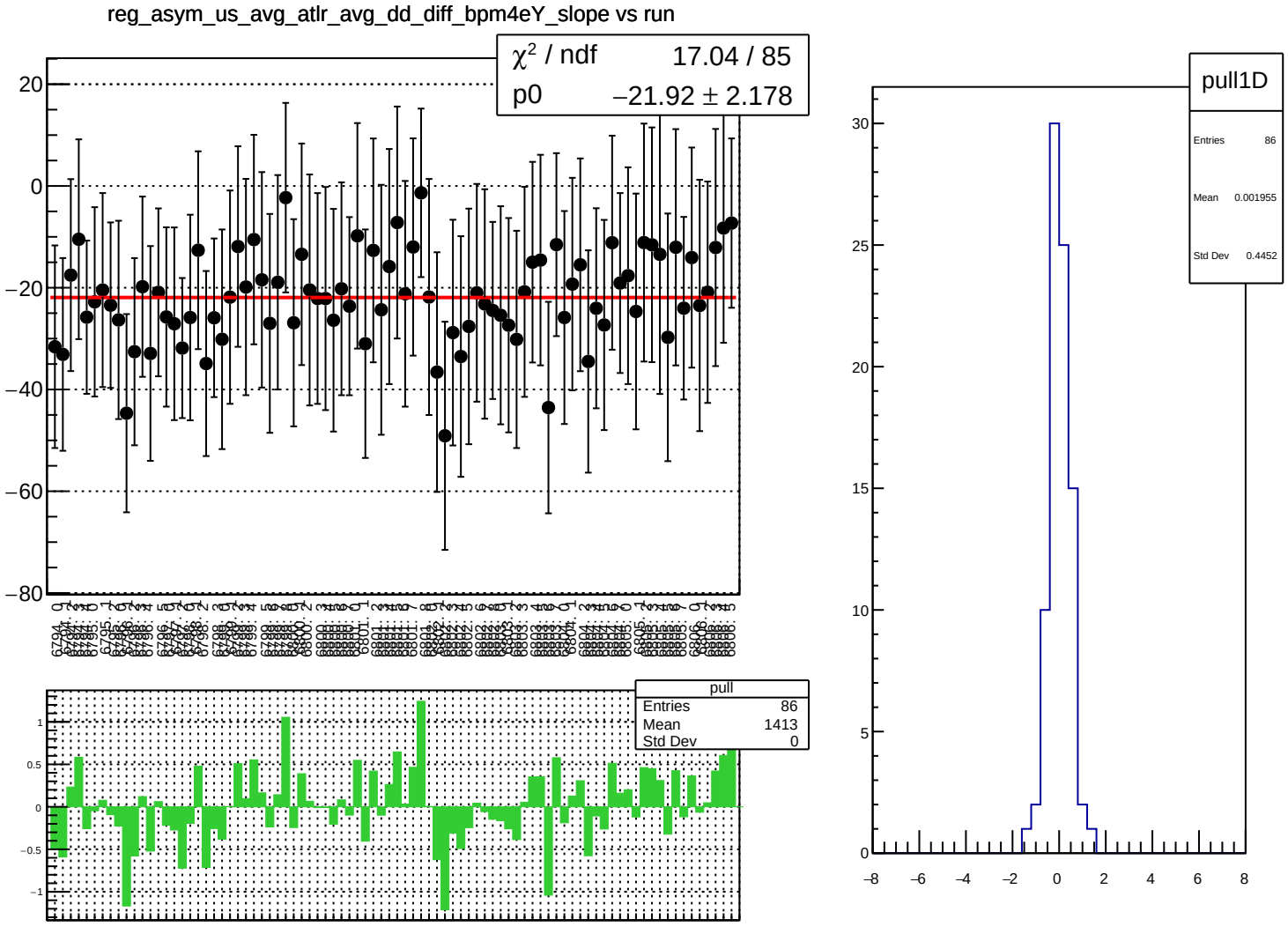

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.23 / 85
p0 32.77 ± 3.814
pull
Entries 86
Mean 365.5
Std Dev 0
pull1D
Entries 86
Mean −0.008023
Std Dev 0.5197

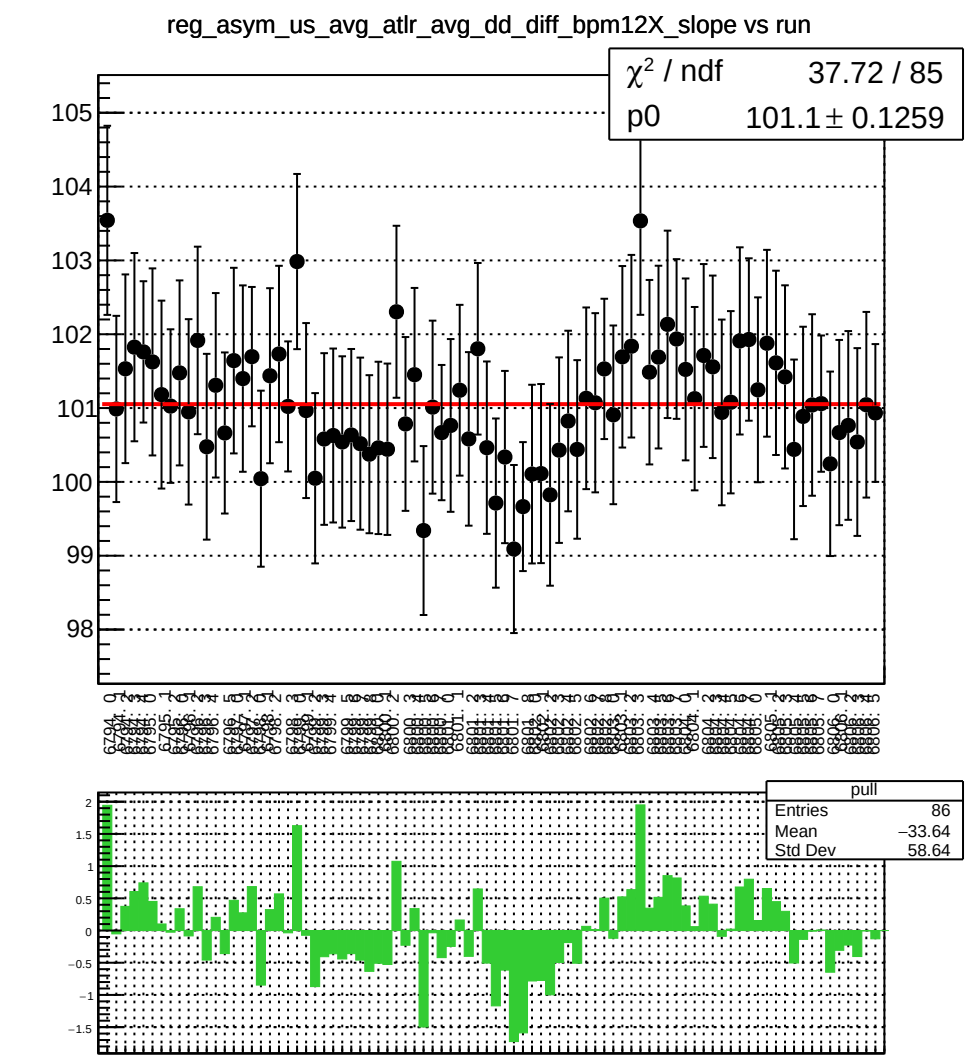

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 41.56 / 85
p0 −178.6 ± 0.2207
−172
−174
−176
−178
−180
−182
−184
−186
pull
Entries 86
Mean −502
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 86
Mean −0.004646
Std Dev 0.6952
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

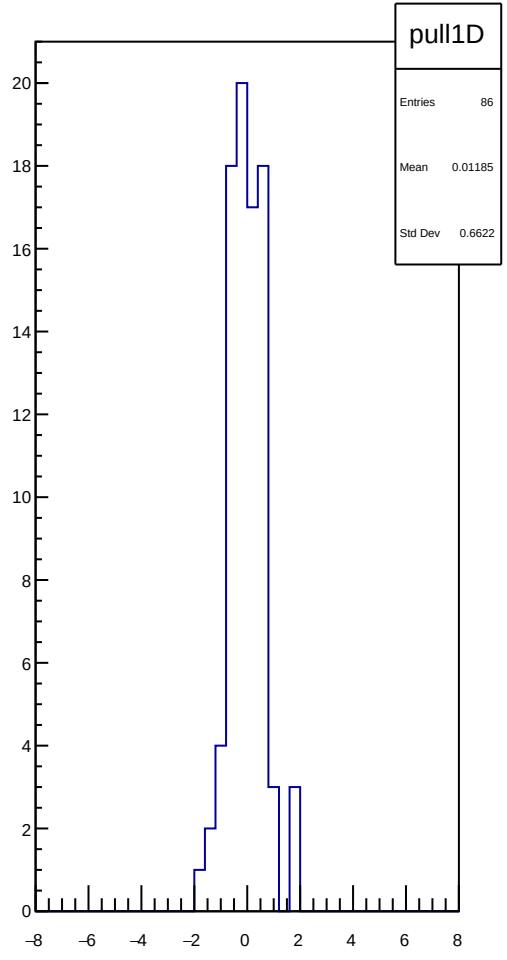

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 52.6 / 85
p0 204.4 ± 3.322
pull
Entries 86
Mean 478.5
Std Dev 0
pull1D
Entries 86
Mean 0.007091
Std Dev 0.782

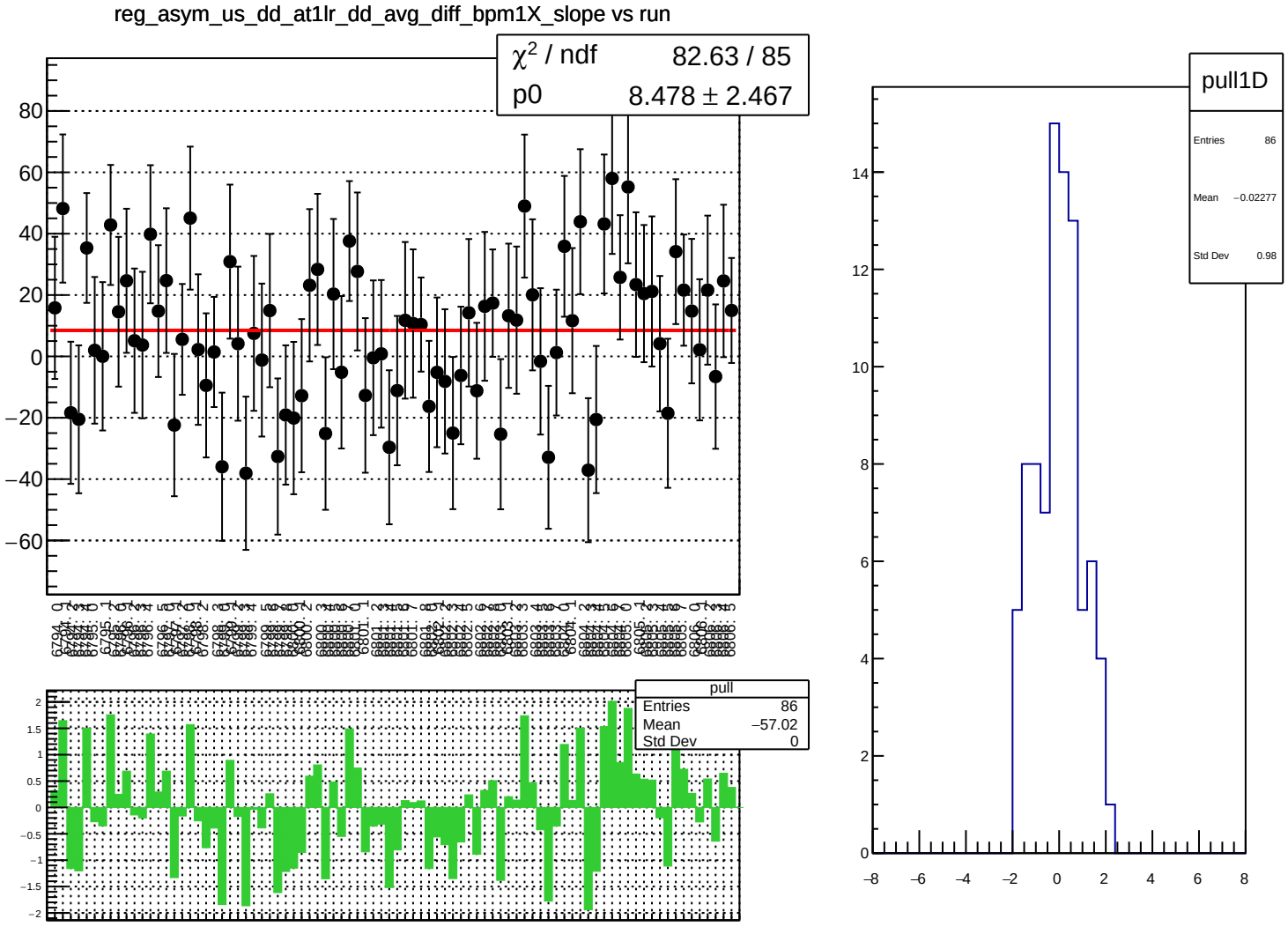

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.33 / 85
p0 −15.65 ± 1.565
pull
Entries 86
Mean 6804
Std Dev 0
pull1D
Entries 86
Mean −0.0003453
Std Dev 0.4489

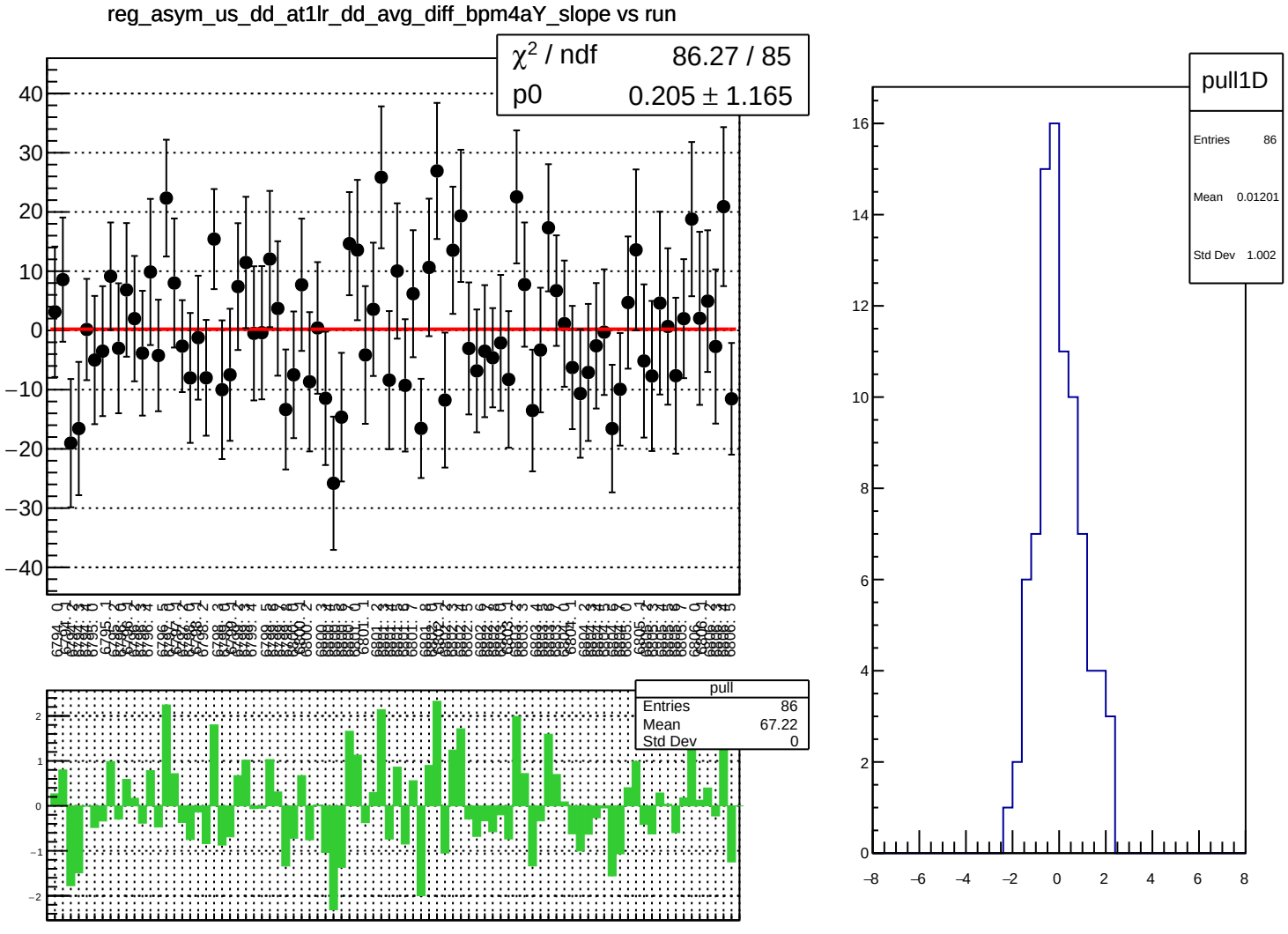

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 53.37 / 85
p0 −195.1 ± 3.109
pull
Entries 86
Mean 670.9
Std Dev 0
pull1D
Entries 86
Mean −0.005135
Std Dev 0.7878

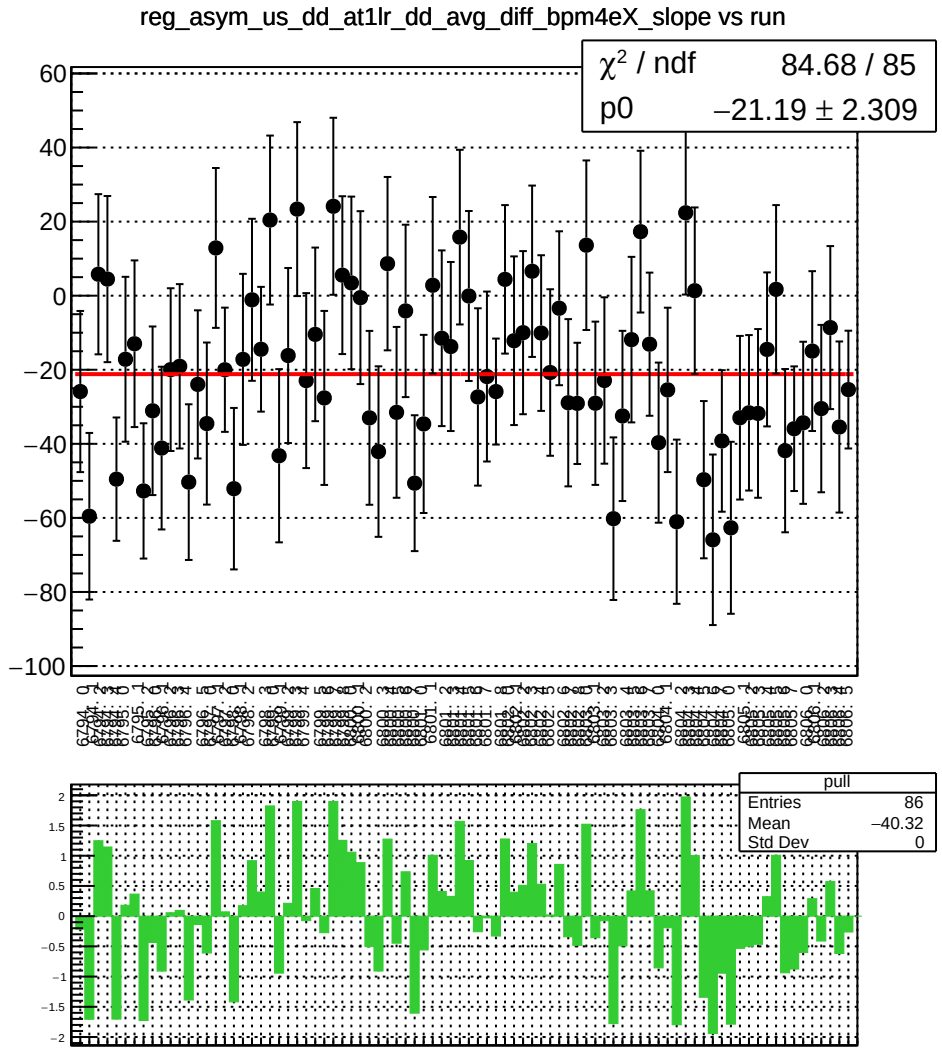

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.04 / 85
p0 −21.92 ± 2.178
pull
Entries 86
Mean 1413
Std Dev 0
pull1D
Entries 86
Mean 0.001955
Std Dev 0.4452

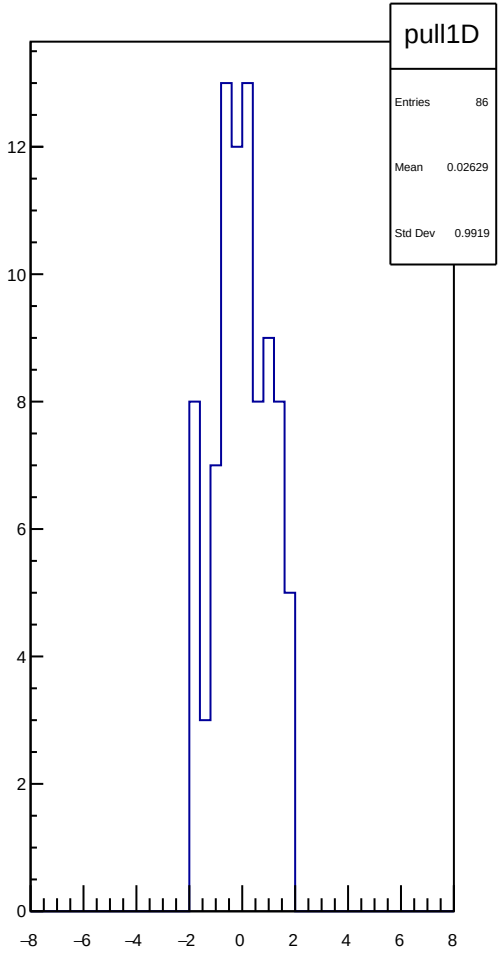

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 37.72 / 85
p0 101.1 ± 0.1259
105
104
103
102
101
100
99
98
pull
Entries 86
Mean −33.64
Std Dev 58.64
2
1.5
1
0.5
0
−0.5
−1
−1.5

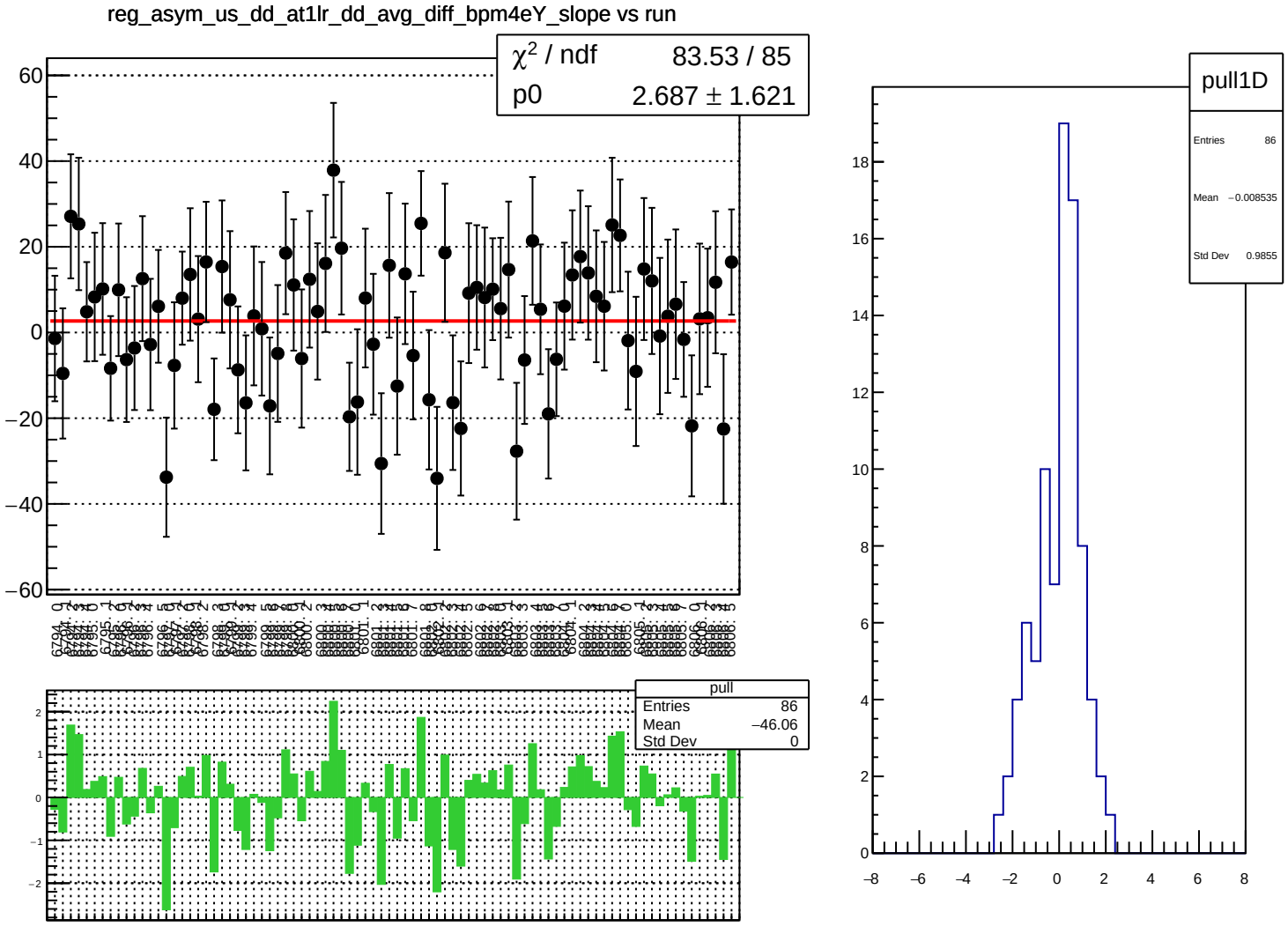

pull1D
Entries 86
Mean 0.01185
Std Dev 0.6622
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

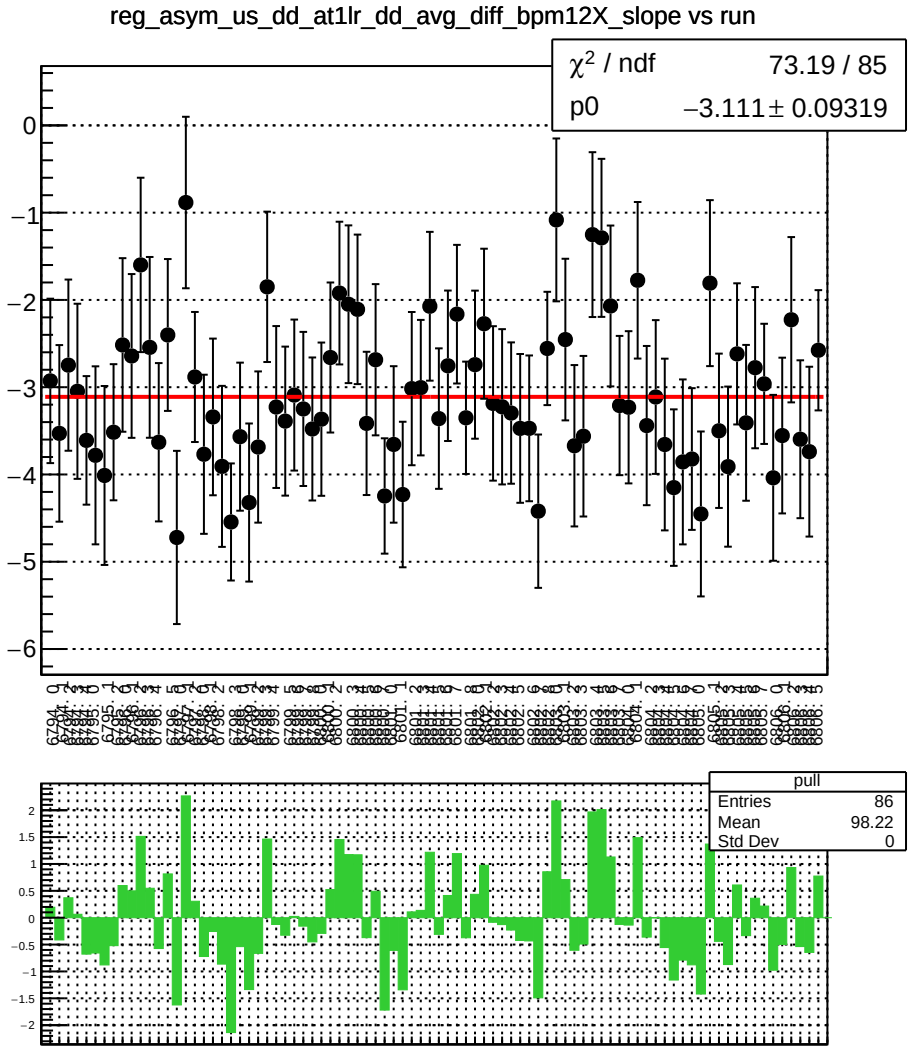

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 82.63 / 85
p0 8.478 ± 2.467
pull
Entries 86
Mean −57.02
Std Dev 0
pull1D
Entries 86
Mean −0.02277
Std Dev 0.98

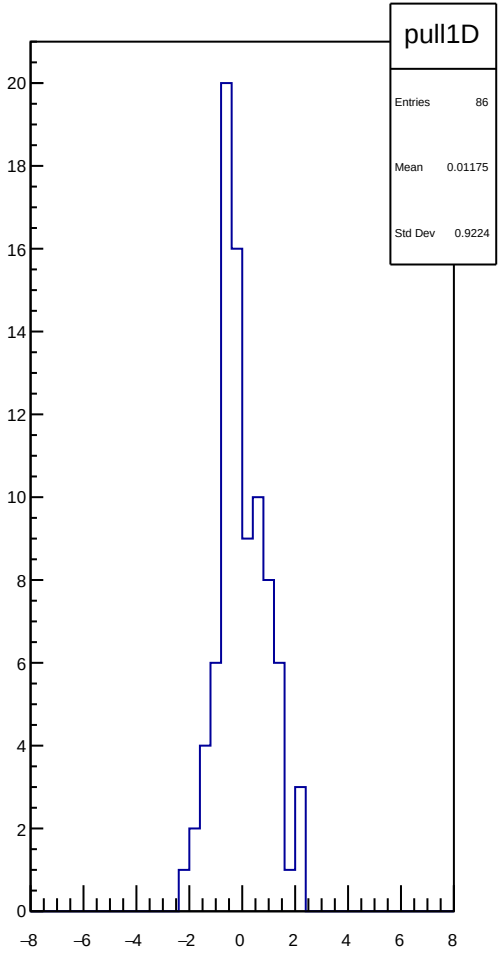

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.27 / 85
p0 0.205 ± 1.165
pull
Entries 86
Mean 67.22
Std Dev 0
pull1D
Entries 86
Mean 0.01201
Std Dev 1.002

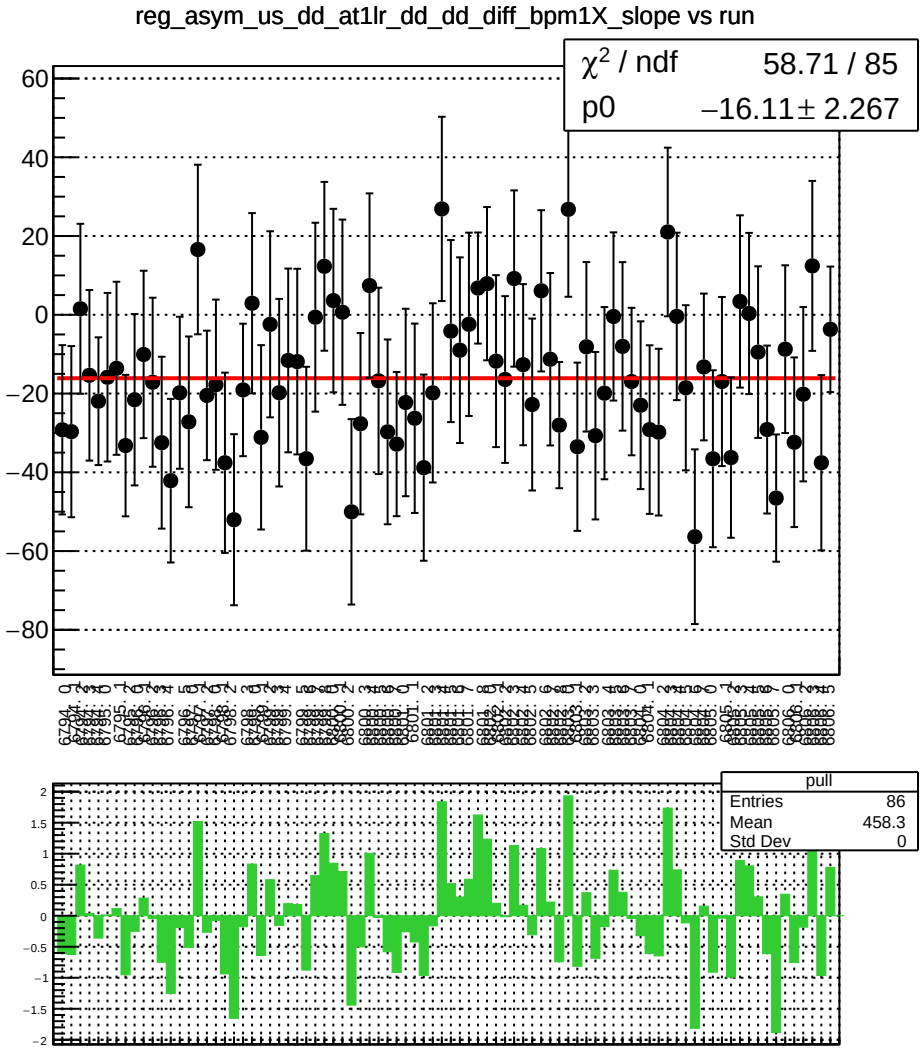

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 84.68 / 85
p0 −21.19 ± 2.309
pull
Entries 86
Mean −40.32
Std Dev 0

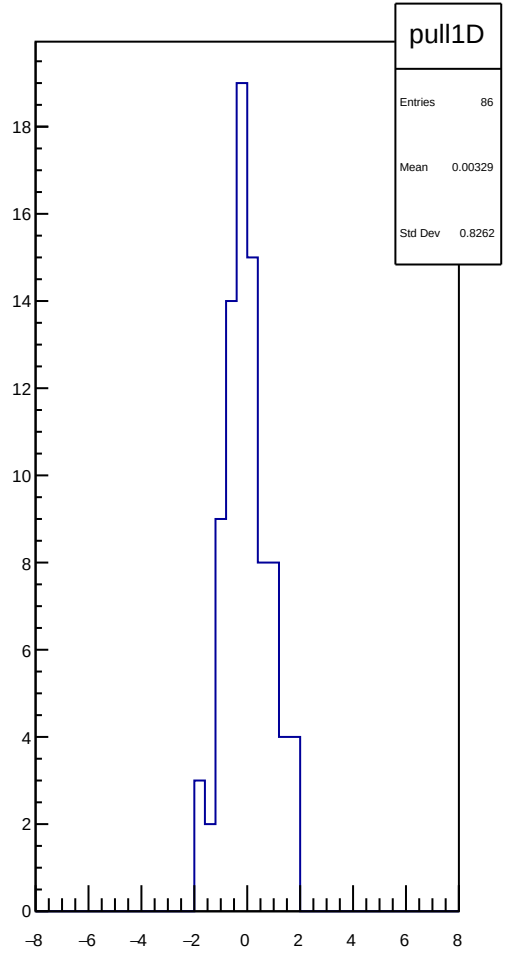

pull1D
Entries 86
Mean 0.02629
Std Dev 0.9919

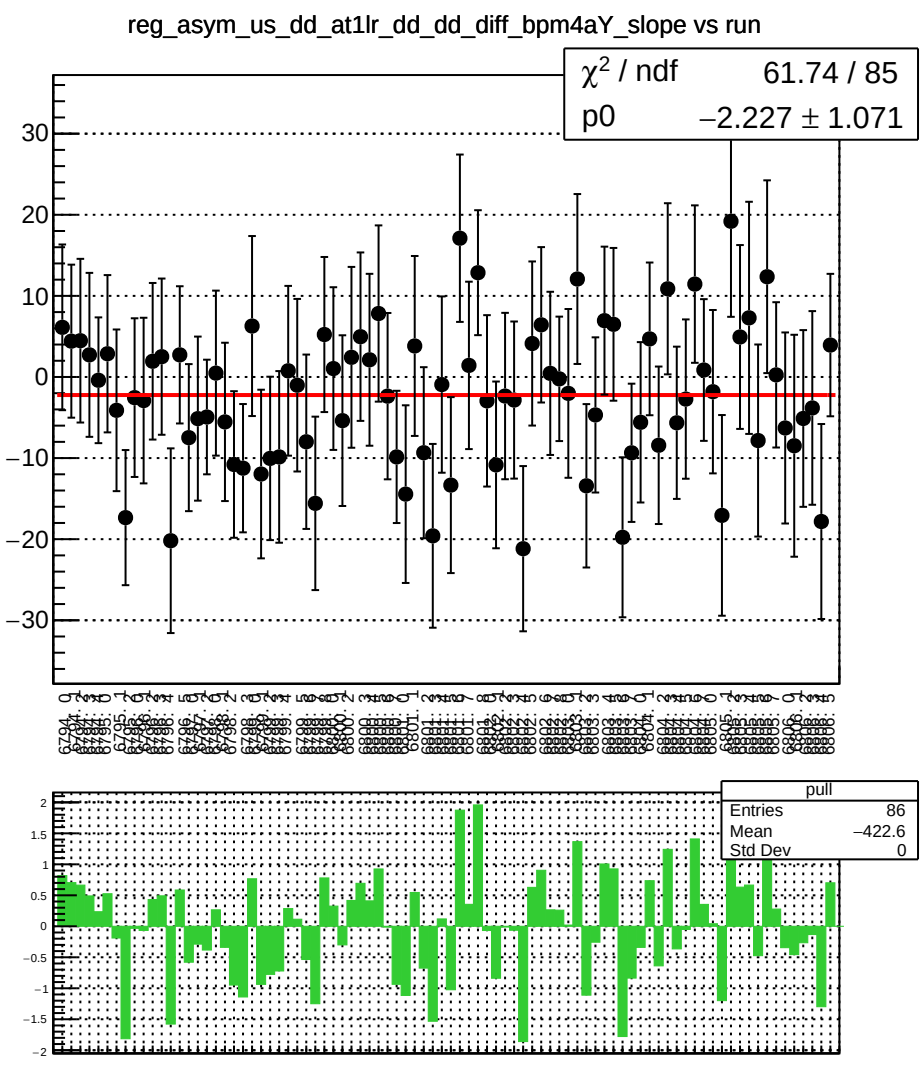

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 83.53 / 85
p0 2.687 ± 1.621
pull
Entries 86
Mean −46.06
Std Dev 0
pull1D
Entries 86
Mean −0.008535
Std Dev 0.9855

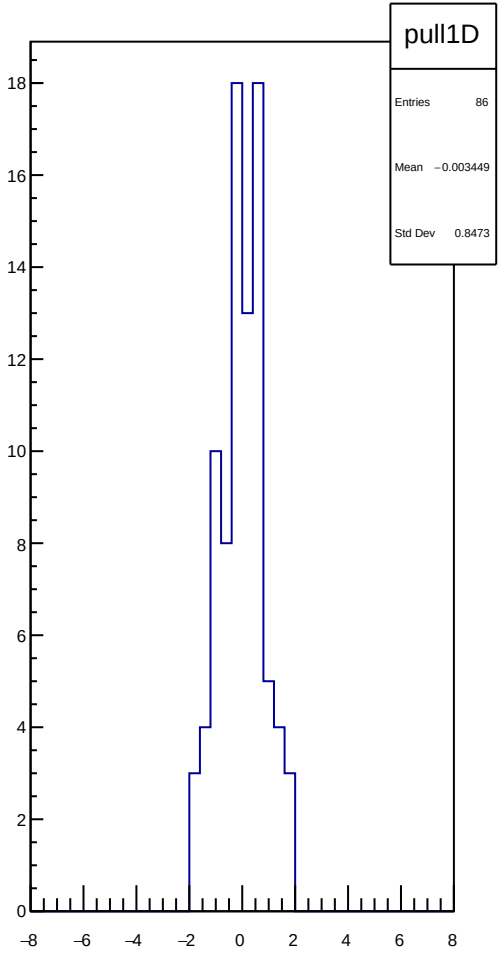

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 73.19 / 85
p0 −3.111 ± 0.09319
pull
Entries 86
Mean 98.22
Std Dev 0

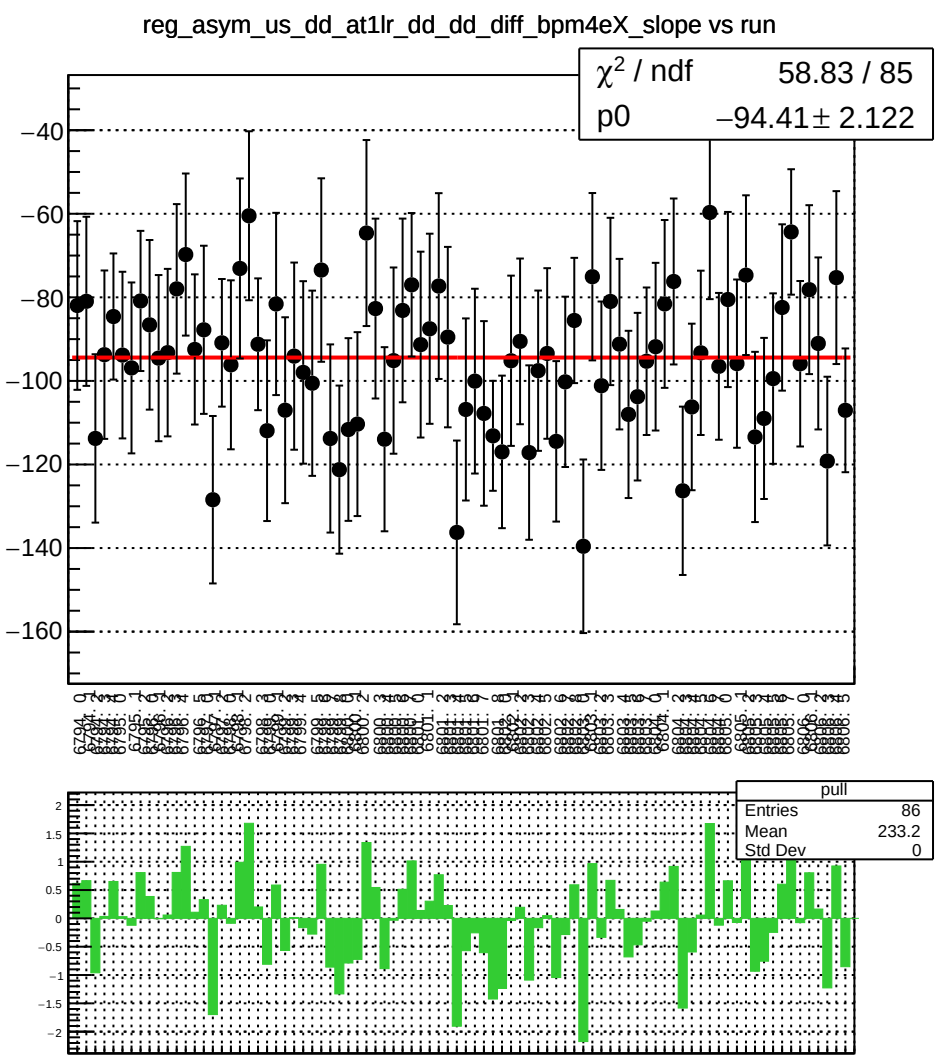

pull1D
Entries 86
Mean 0.01175
Std Dev 0.9224

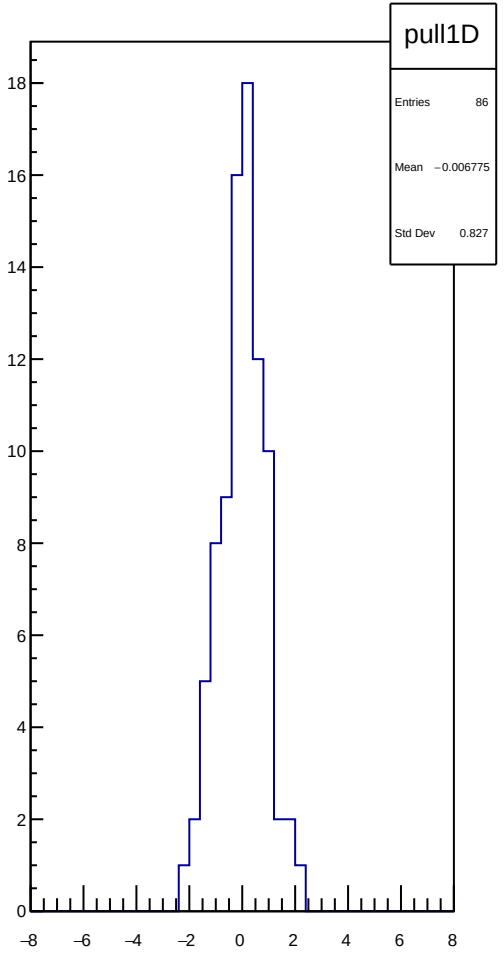

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 58.71 / 85
p0 −16.11 ± 2.267
pull
Entries 86
Mean 458.3
Std Dev 0

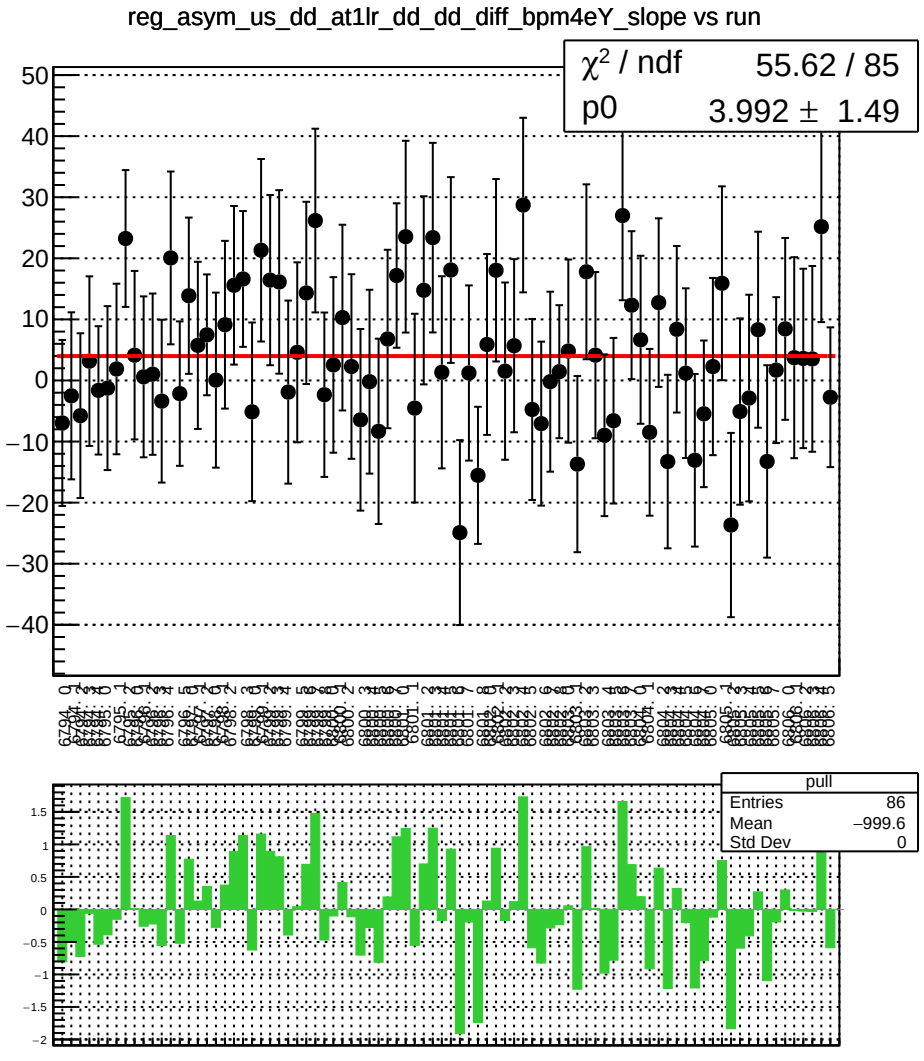

pull1D
Entries 86
Mean 0.00329
Std Dev 0.8262

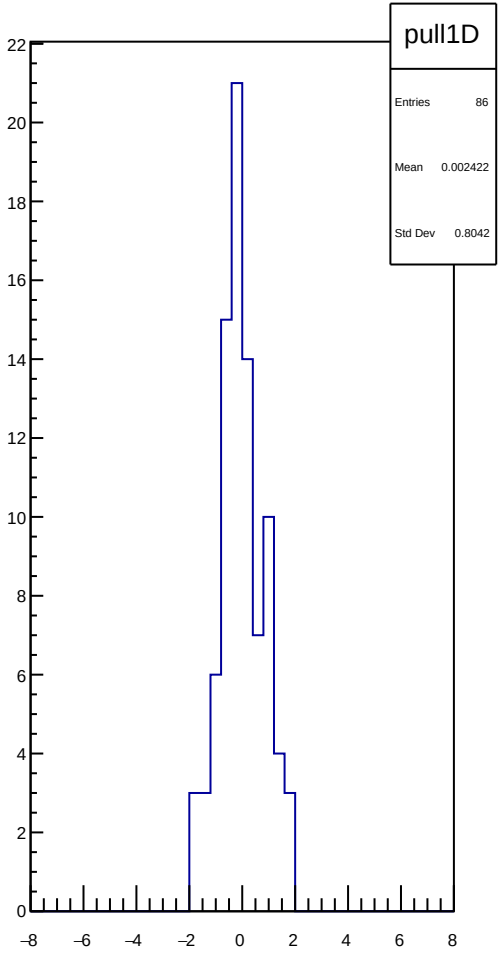

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.74 / 85
p0 −2.227 ± 1.071
pull
Entries 86
Mean −422.6
Std Dev 0

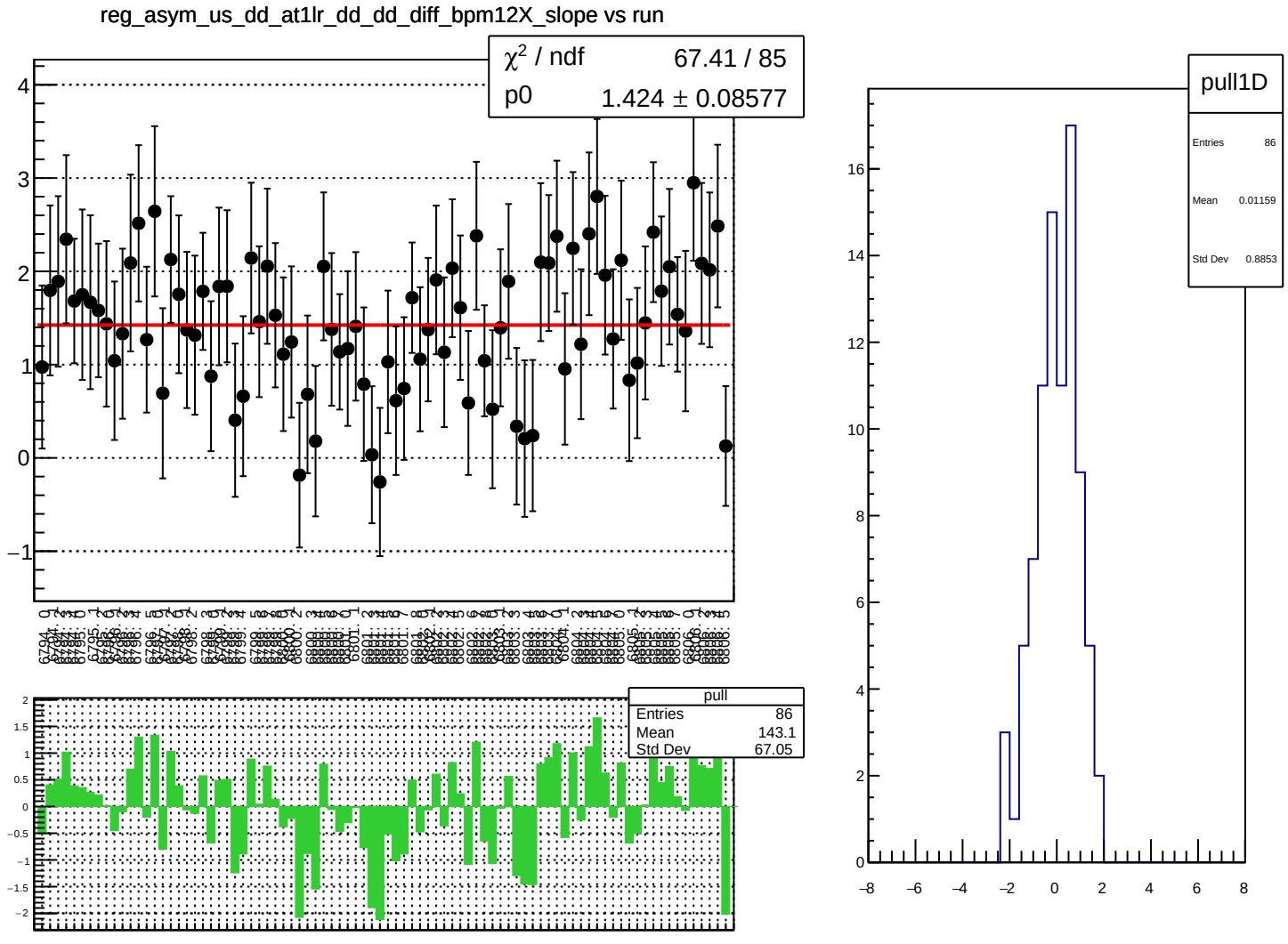

pull1D
Entries 86
Mean −0.003449
Std Dev 0.8473

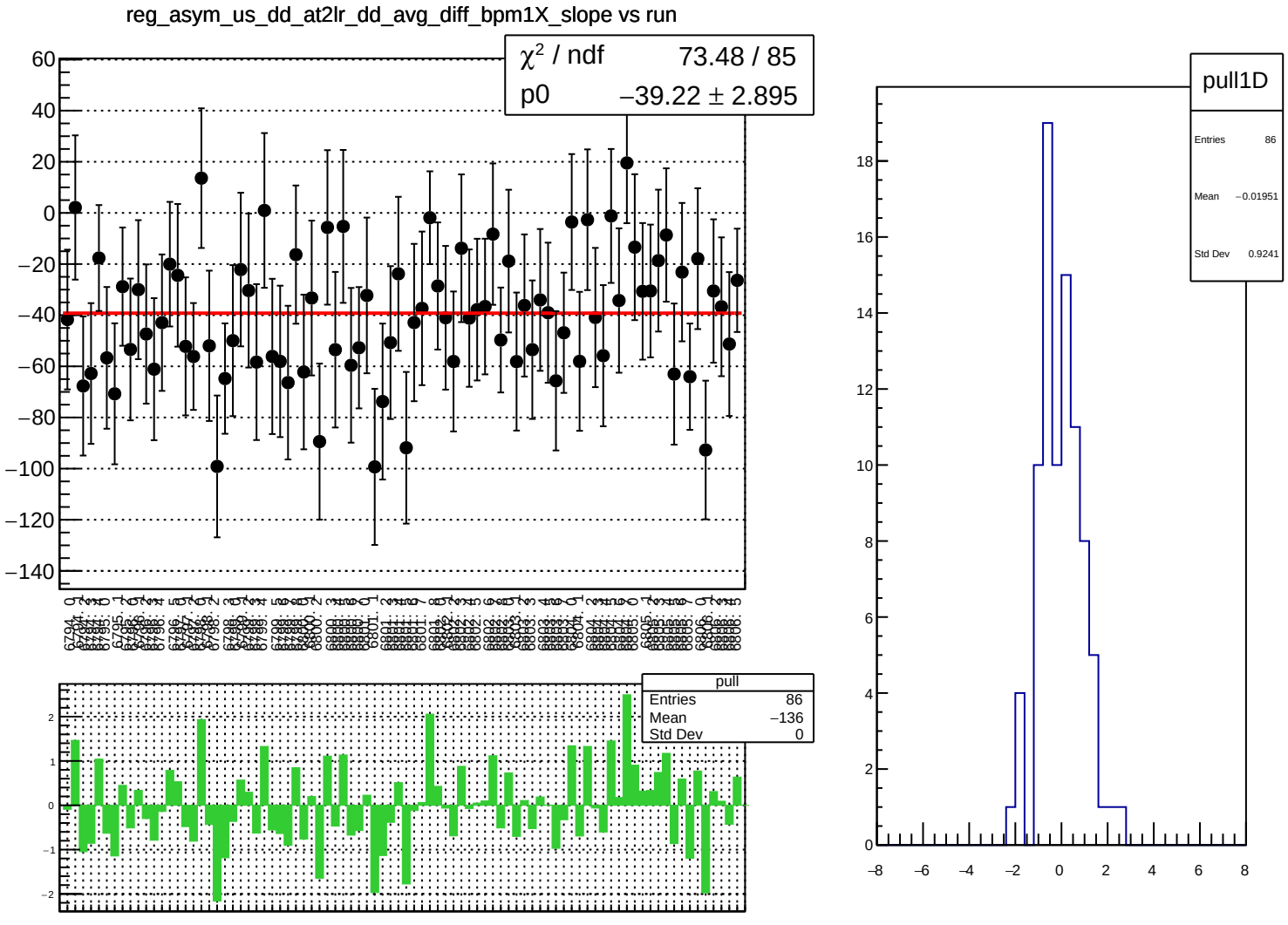

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.83 / 85
p0 −94.41 ± 2.122
pull
Entries 86
Mean 233.2
Std Dev 0

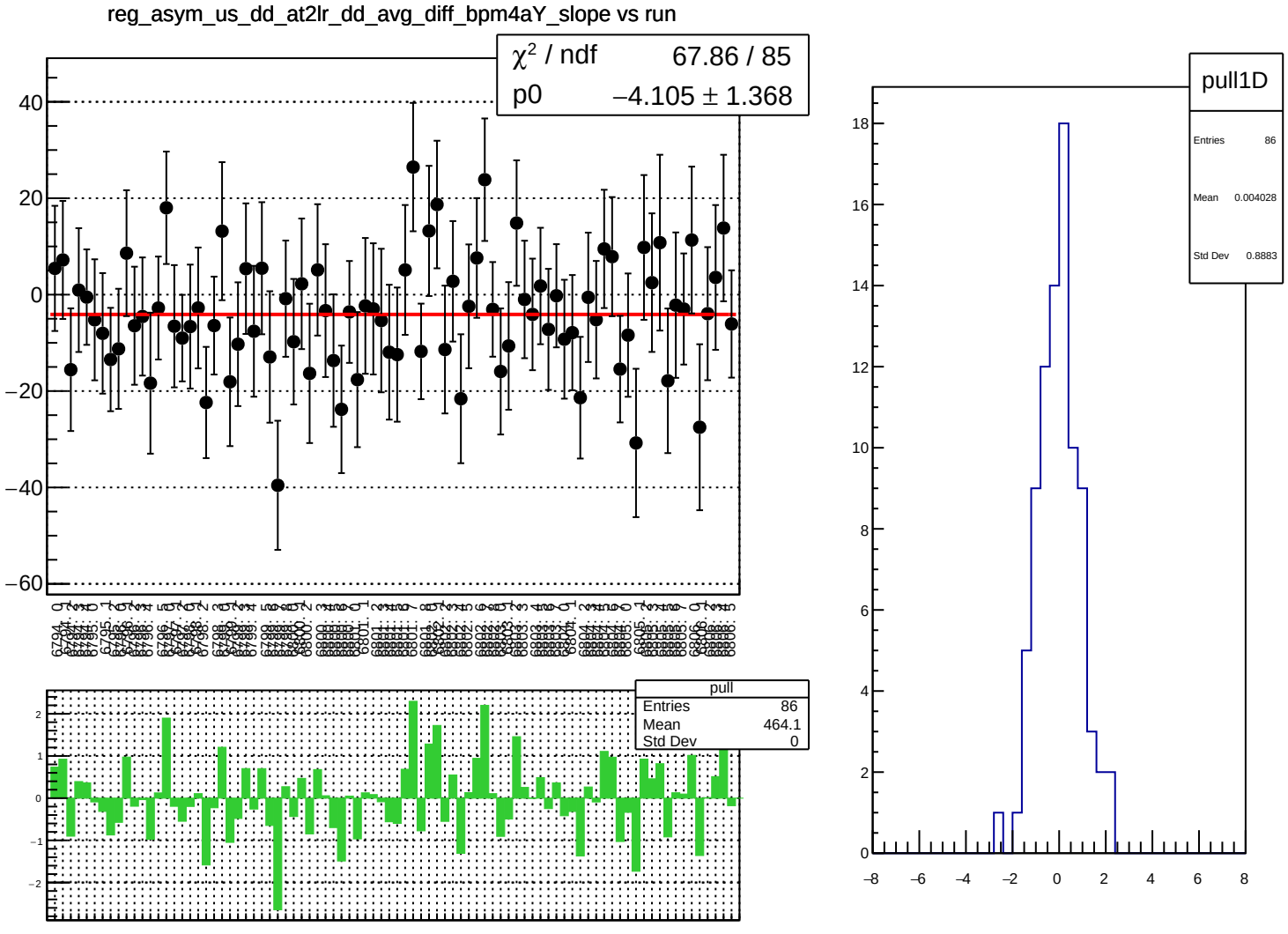

pull1D
Entries 86
Mean −0.006775
Std Dev 0.827

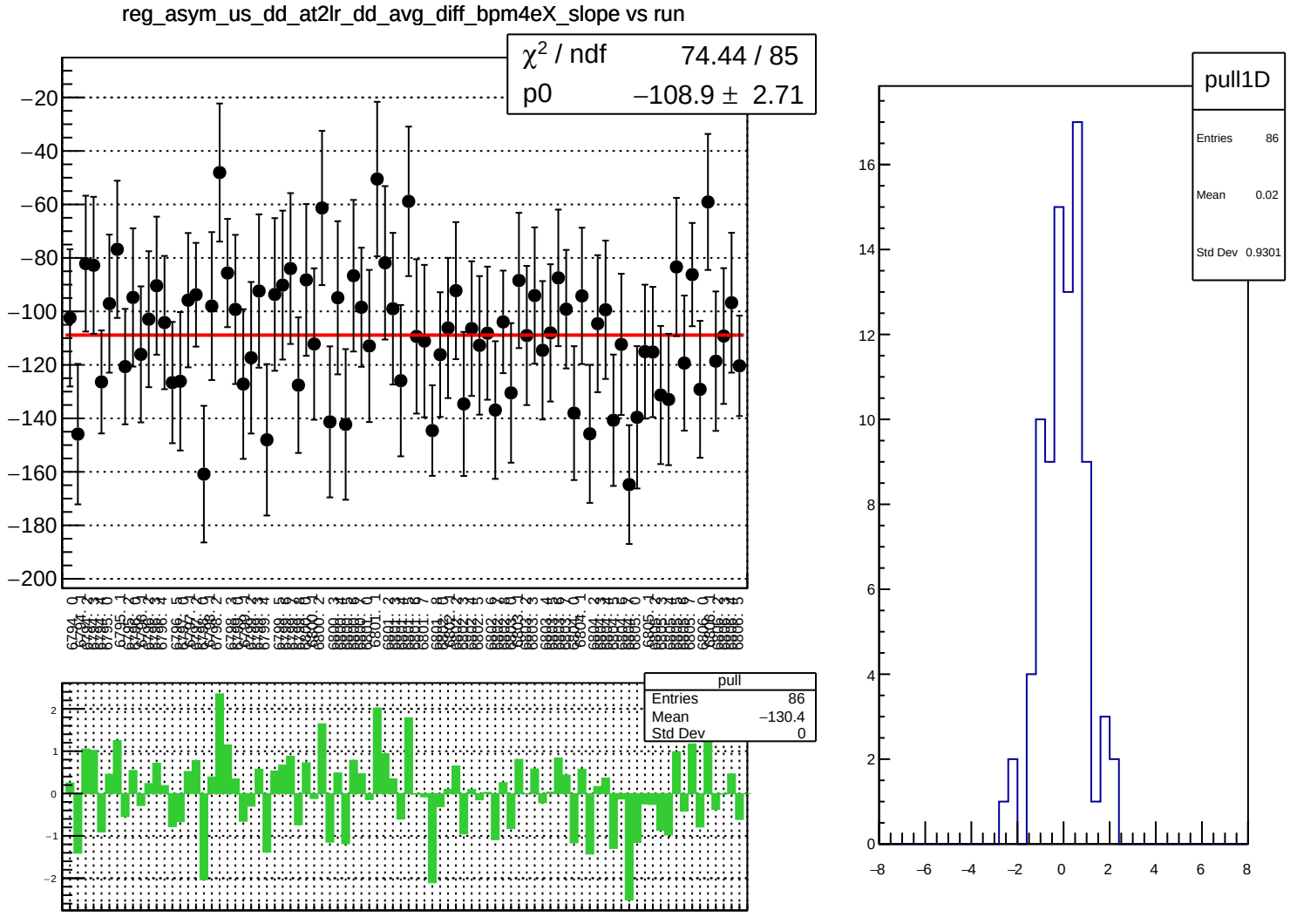

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.62 / 85
p0 3.992 ± 1.49
pull
Entries 86
Mean −999.6
Std Dev 0

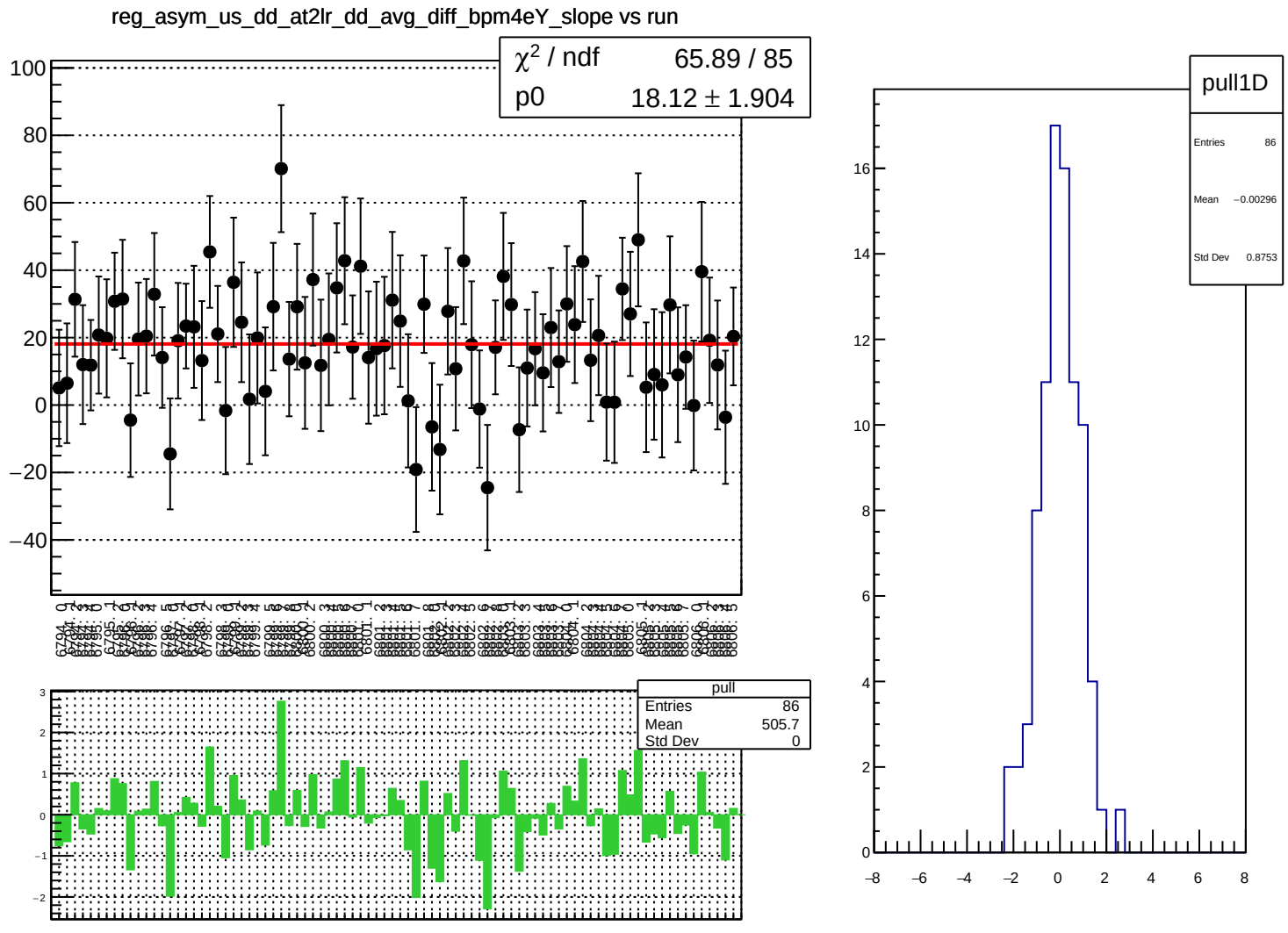

pull1D
Entries 86
Mean 0.002422
Std Dev 0.8042

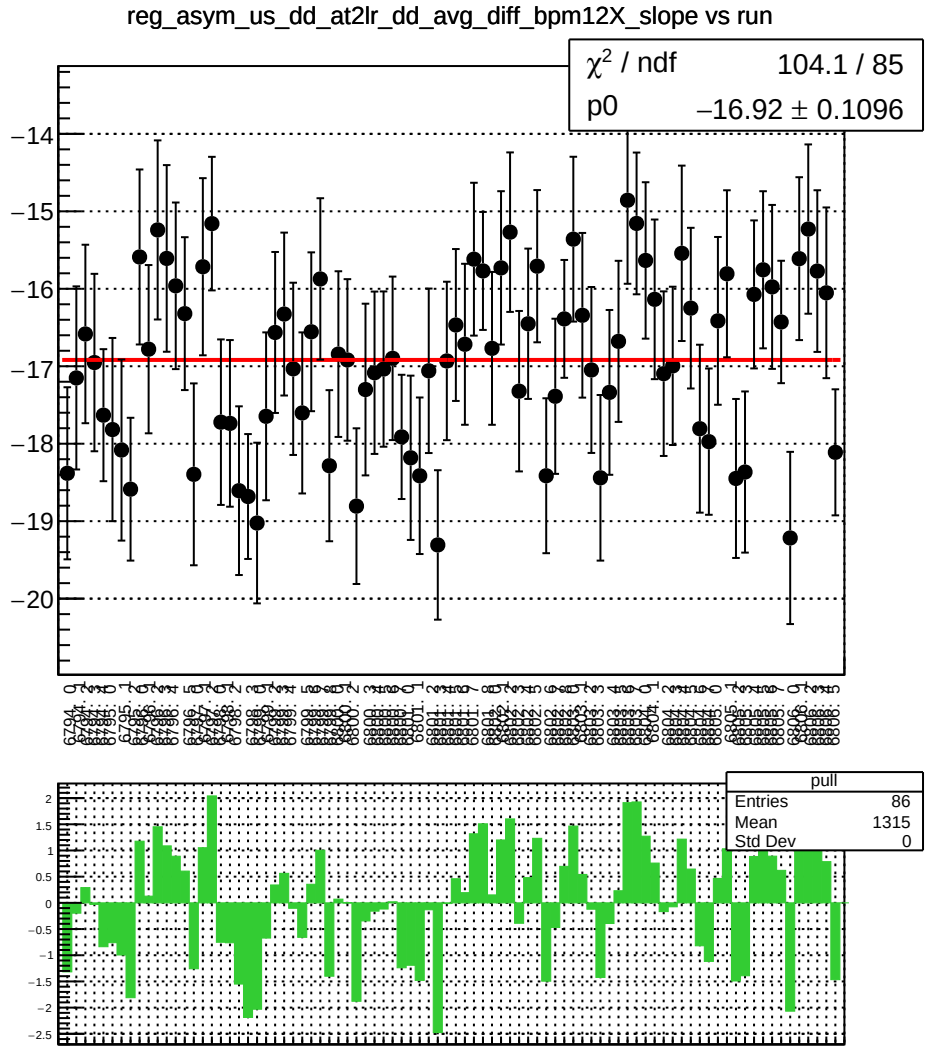

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 67.41 / 85
p0 1.424 ± 0.08577
pull
Entries 86
Mean 143.1
Std Dev 67.05
pull1D
Entries 86
Mean 0.01159
Std Dev 0.8853

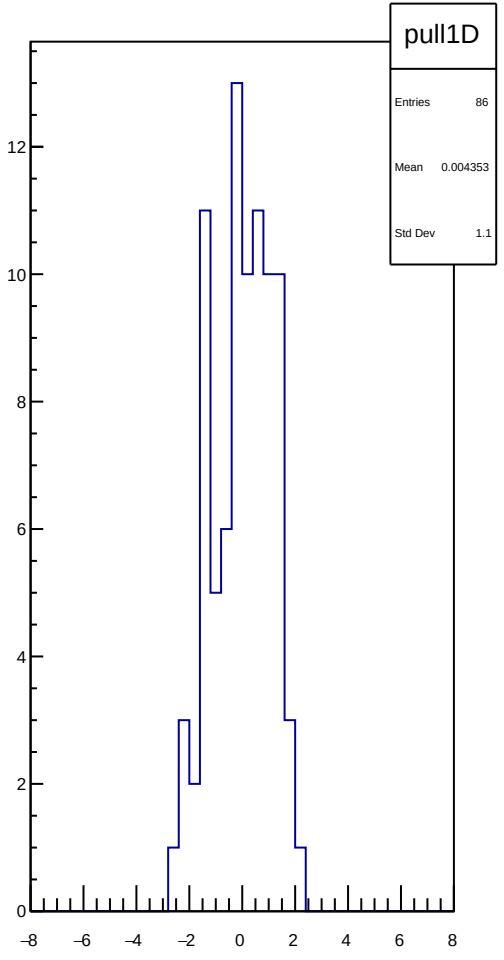

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 73.48 / 85
p0 −39.22 ± 2.895
pull
Entries 86
Mean −136
Std Dev 0
pull1D
Entries 86
Mean −0.01951
Std Dev 0.9241

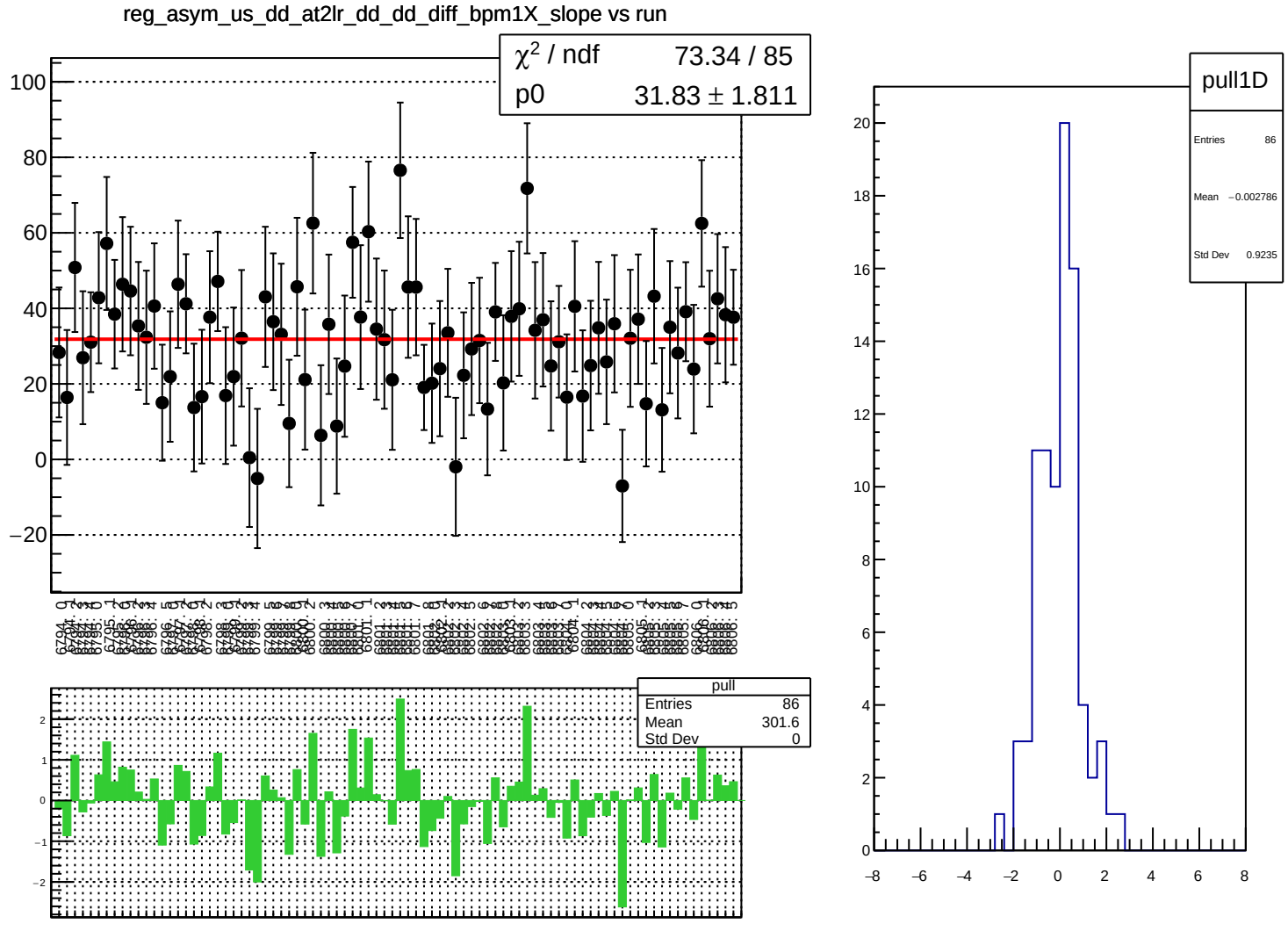

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 67.86 / 85
p0 −4.105 ± 1.368
pull
Entries 86
Mean 464.1
Std Dev 0
pull1D
Entries 86
Mean 0.004028
Std Dev 0.8883

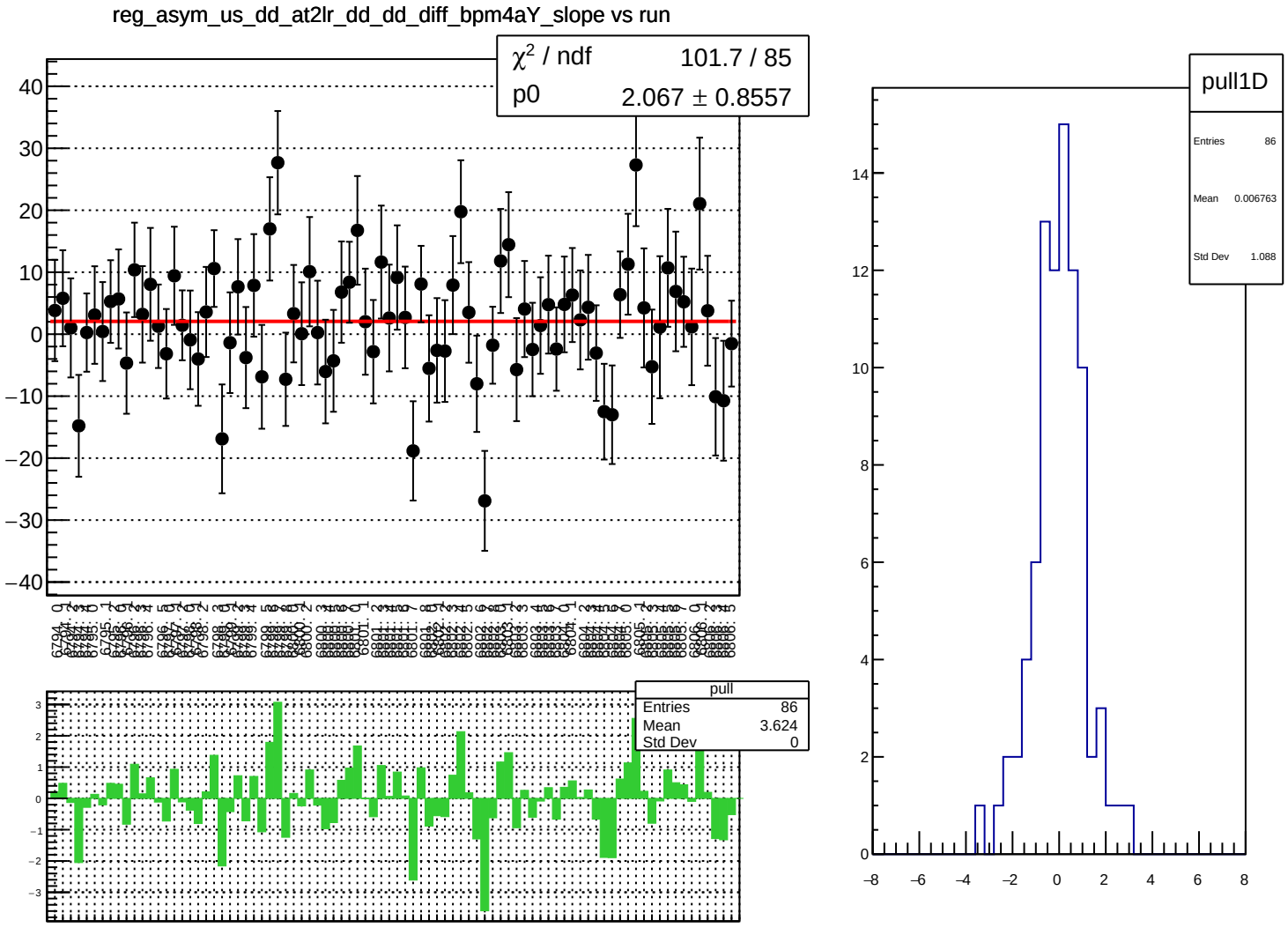

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 74.44 / 85
p0 −108.9 ± 2.71
pull
Entries 86
Mean −130.4
Std Dev 0
pull1D
Entries 86
Mean 0.02
Std Dev 0.9301

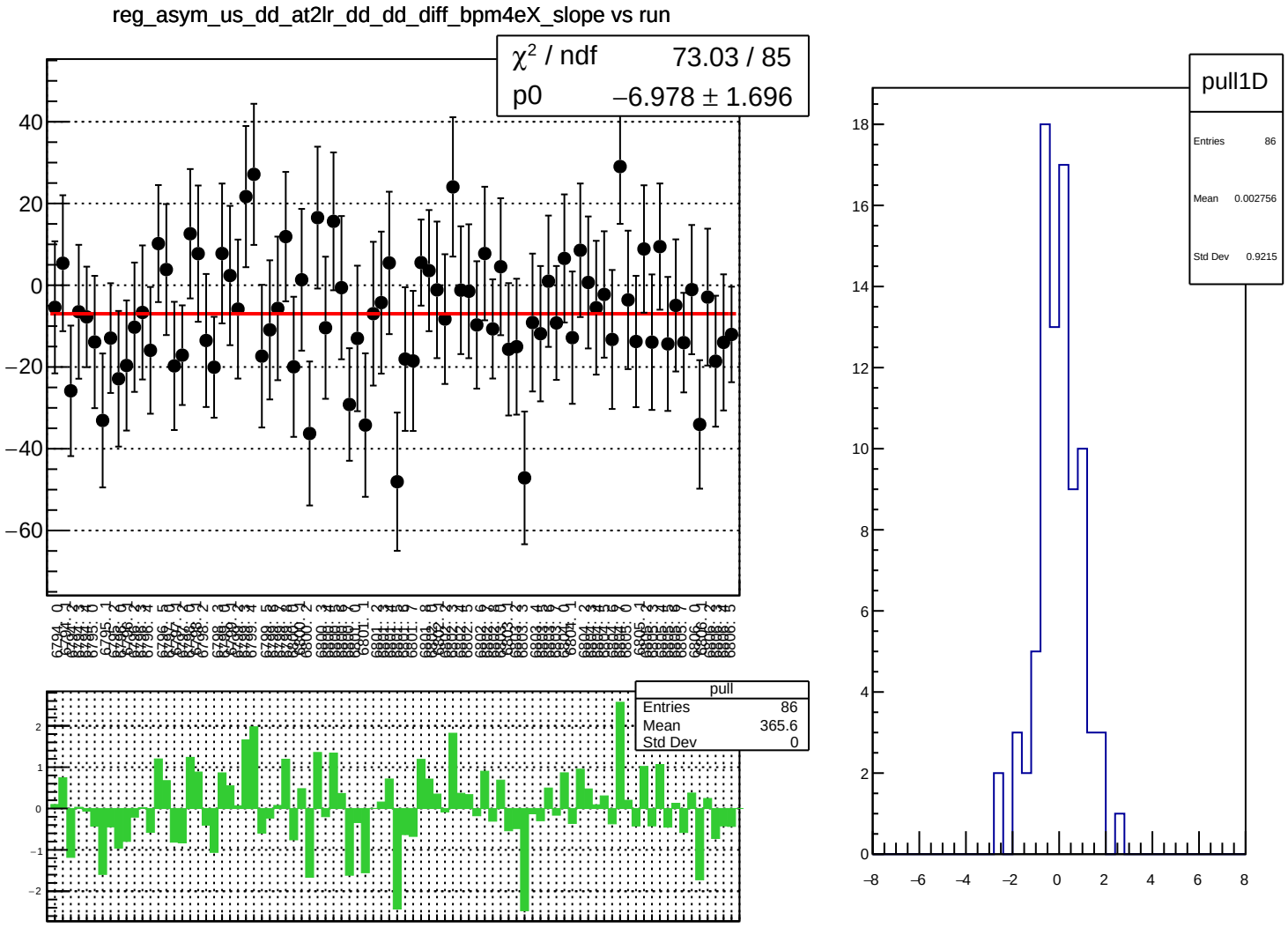

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 65.89 / 85
p0 18.12 ± 1.904
pull
Entries 86
Mean 505.7
Std Dev 0
pull1D
Entries 86
Mean −0.00296
Std Dev 0.8753

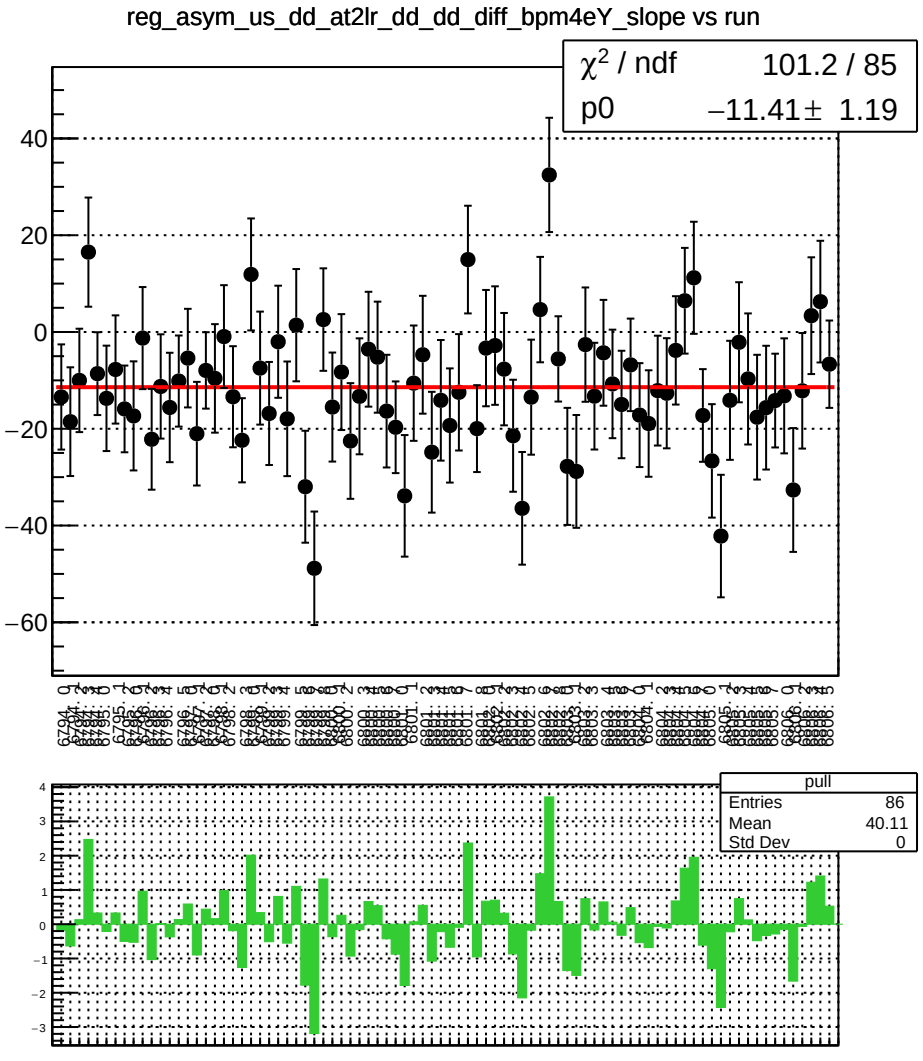

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 104.1 / 85
p0 −16.92 ± 0.1096
pull
Entries 86
Mean 1315
Std Dev 0

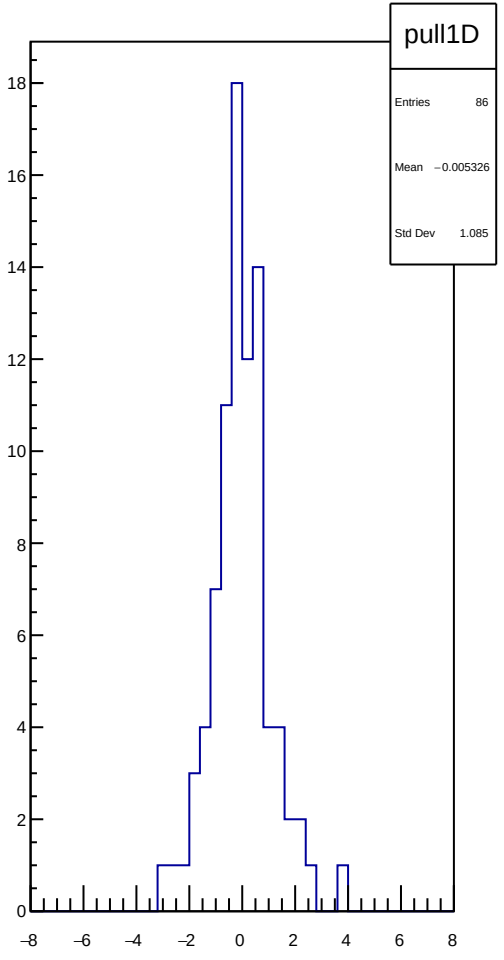

pull1D
Entries 86
Mean 0.004353
Std Dev 1.1

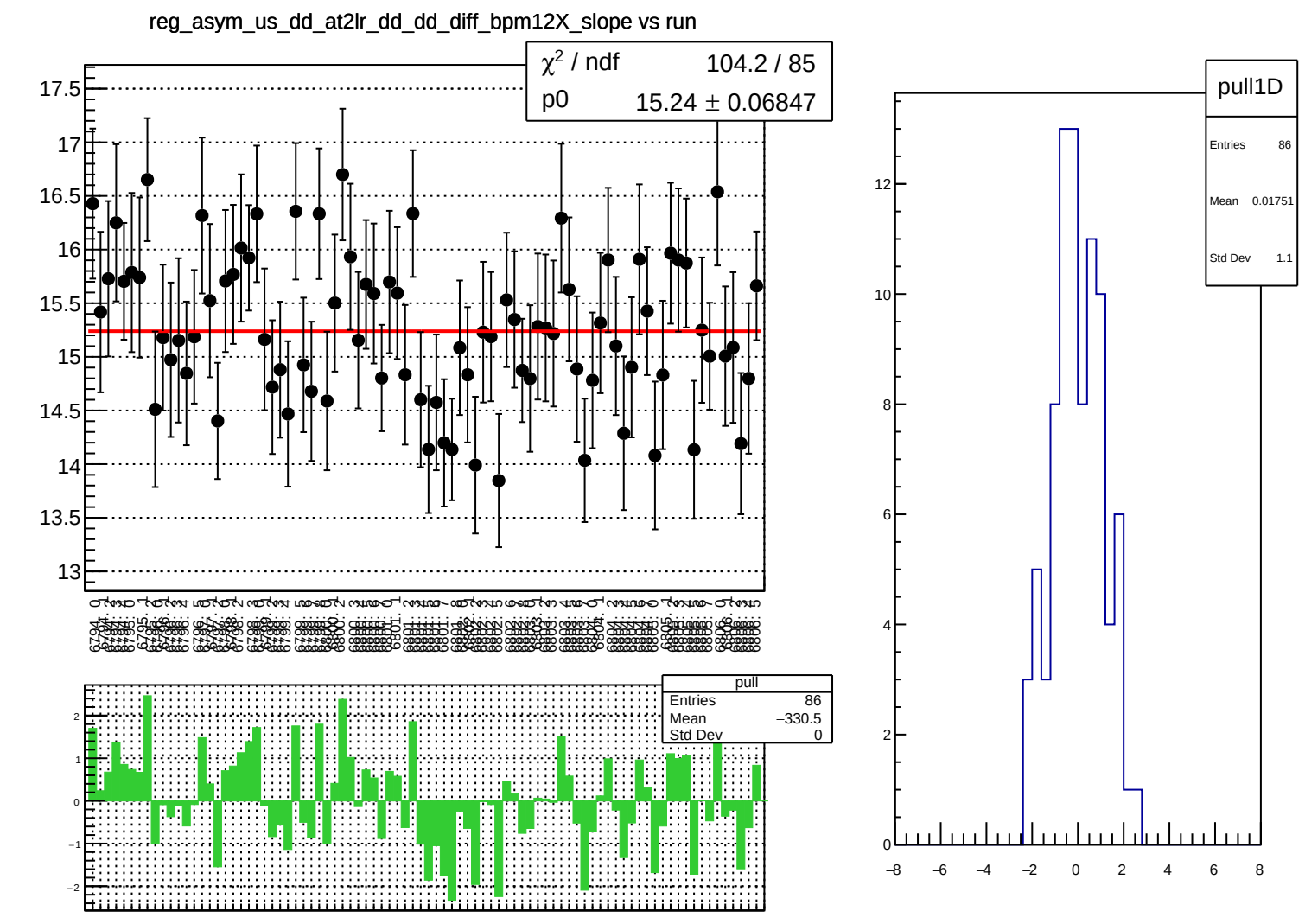

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 73.34 / 85
p0 31.83 ± 1.811
pull
Entries 86
Mean 301.6
Std Dev 0
pull1D
Entries 86
Mean −0.002786
Std Dev 0.9235

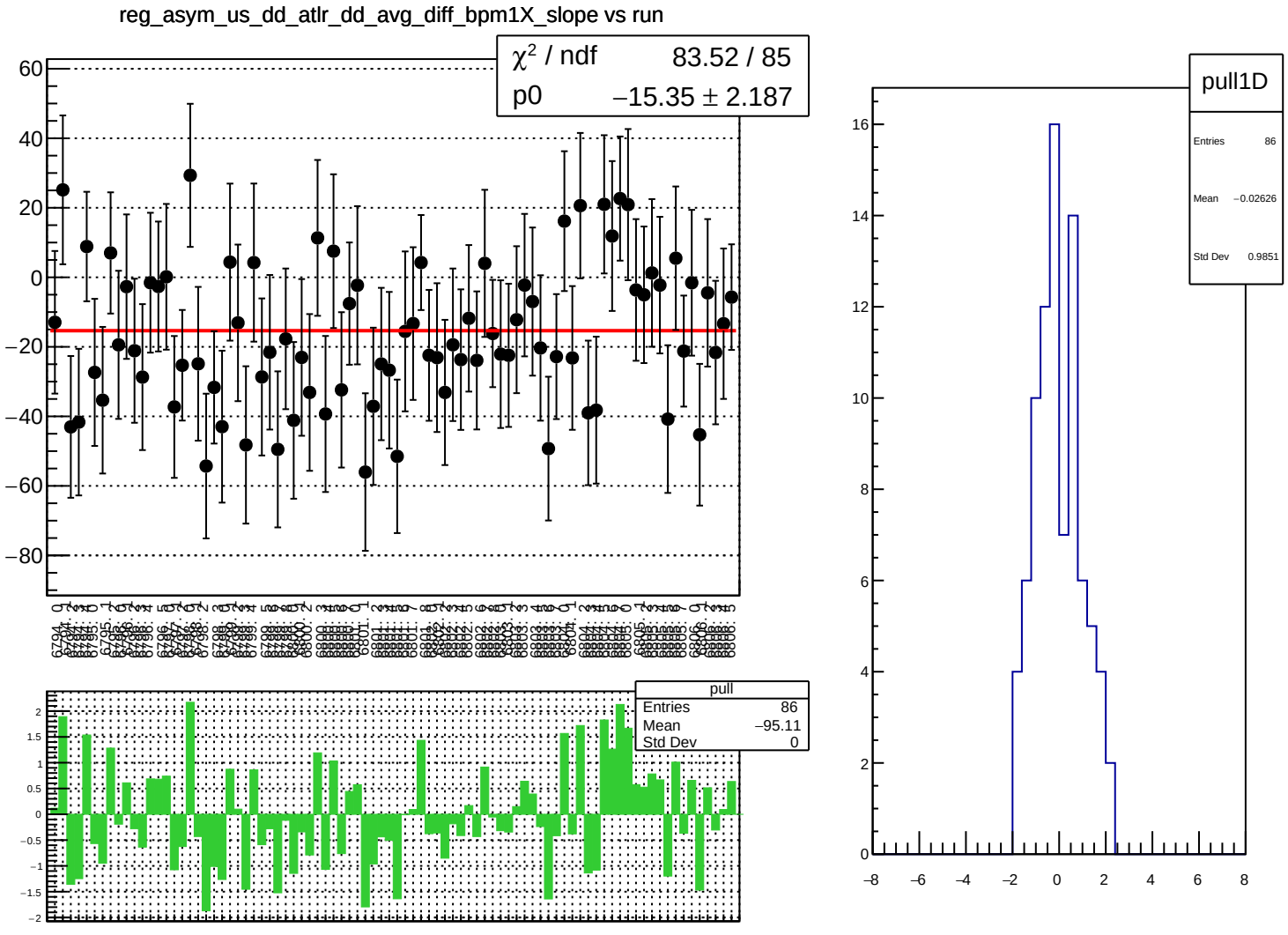

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 101.7 / 85
p0 2.067 ± 0.8557
pull
Entries 86
Mean 3.624
Std Dev 0
pull1D
Entries 86
Mean 0.006763
Std Dev 1.088

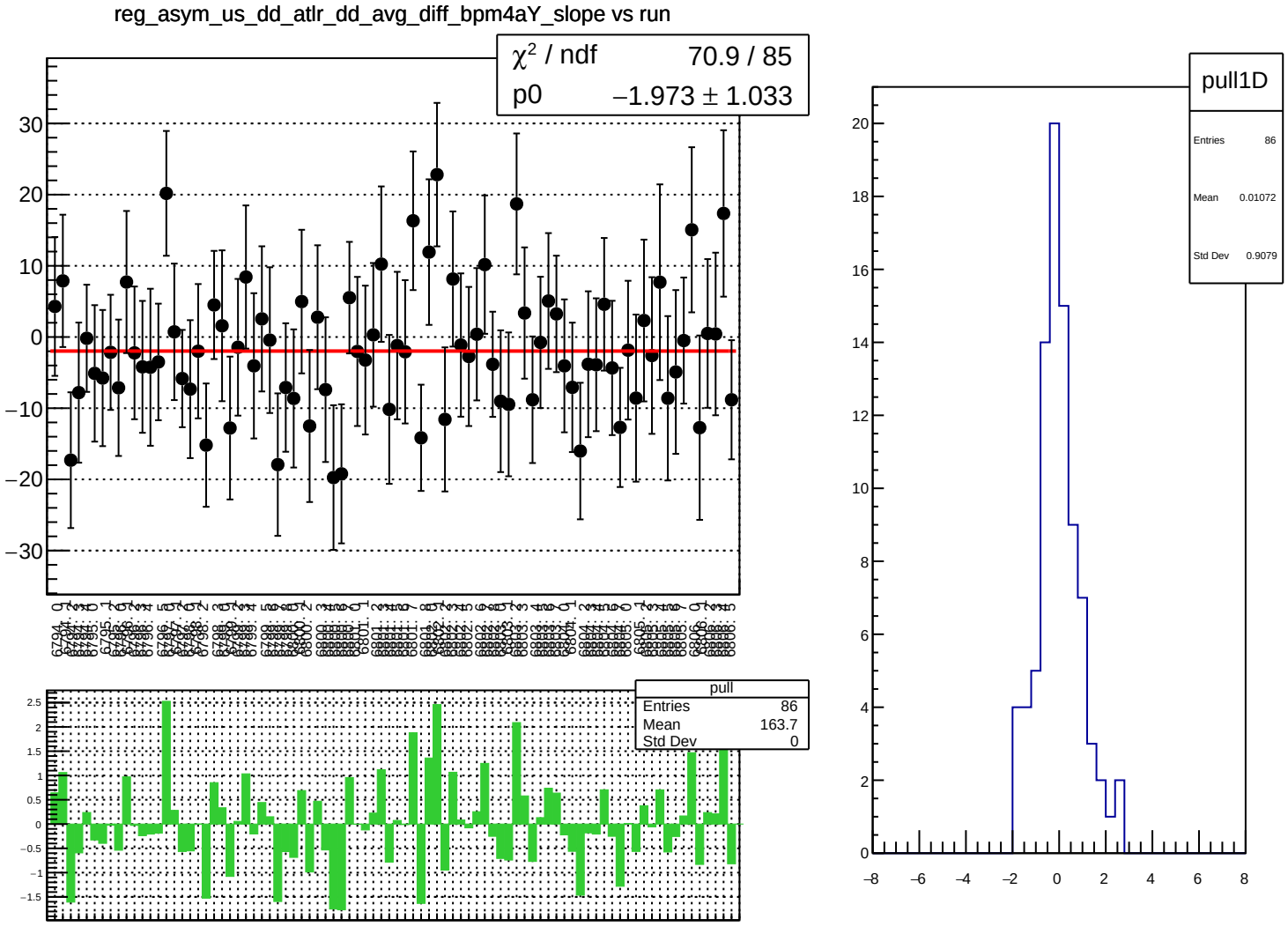

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.03 / 85
p0 −6.978 ± 1.696
pull
Entries 86
Mean 365.6
Std Dev 0
pull1D
Entries 86
Mean 0.002756
Std Dev 0.9215

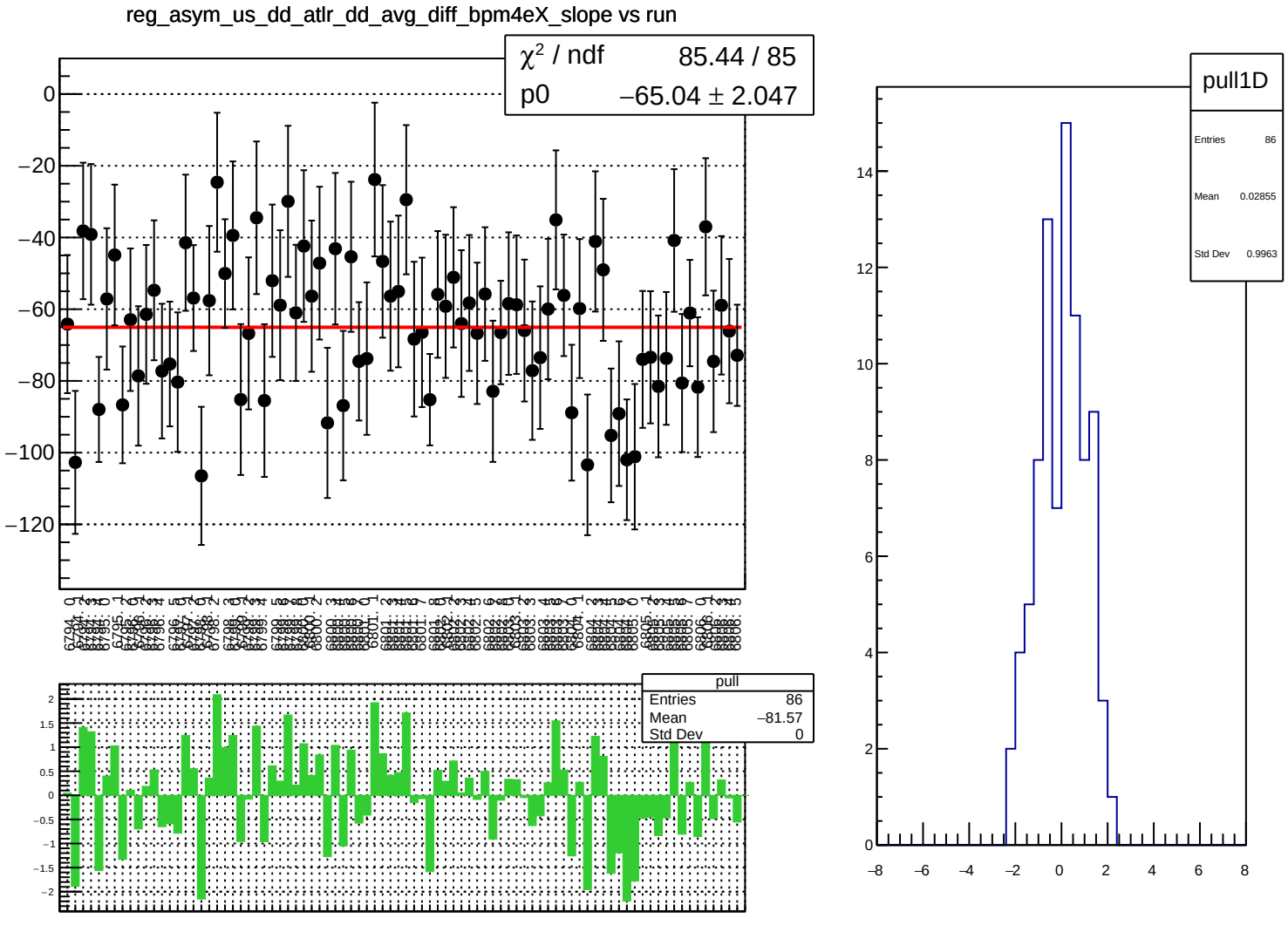

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.2 / 85
p0 −11.41± 1.19
pull
Entries 86
Mean 40.11
Std Dev 0

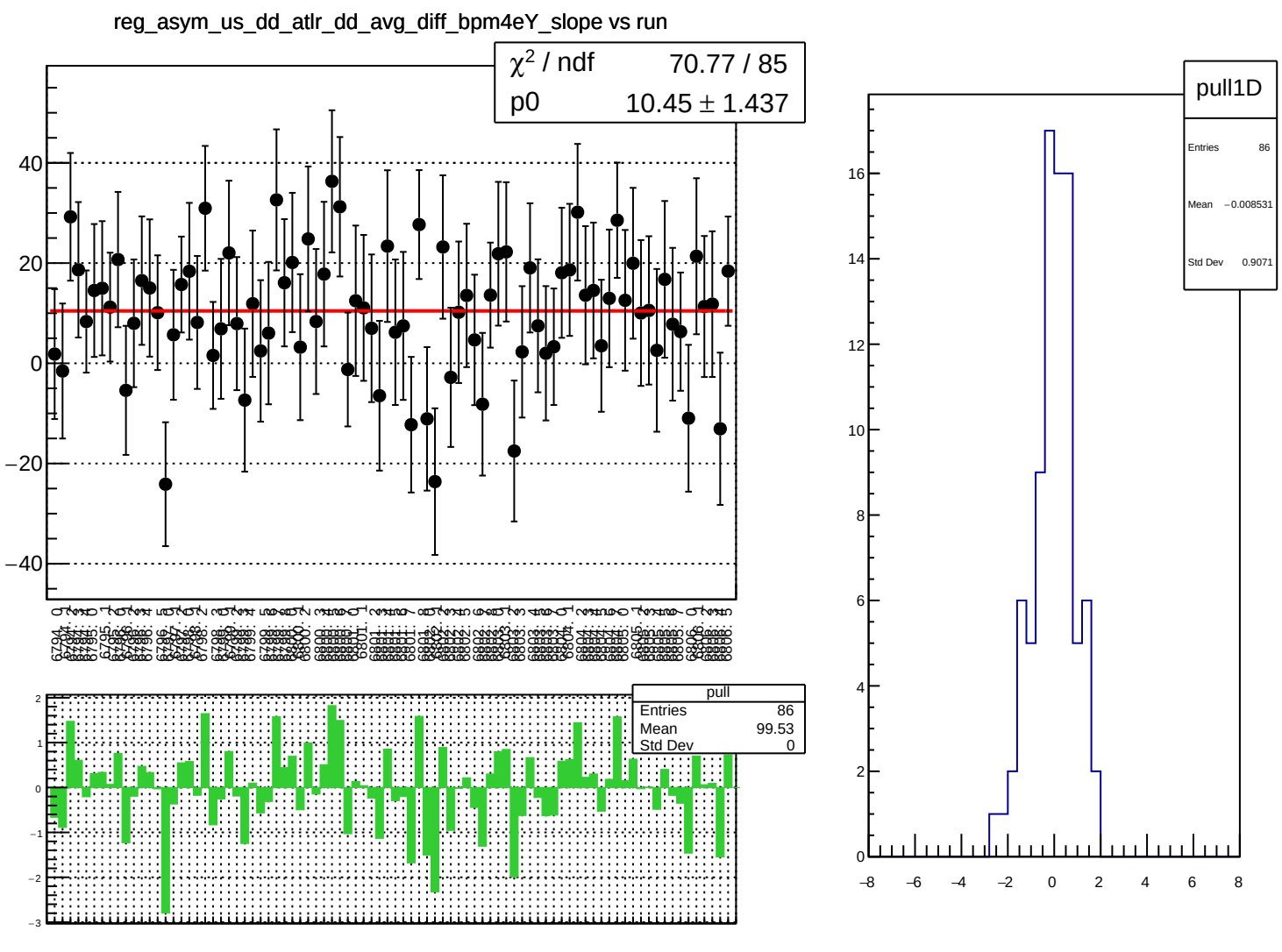

pull1D
Entries 86
Mean −0.005326
Std Dev 1.085

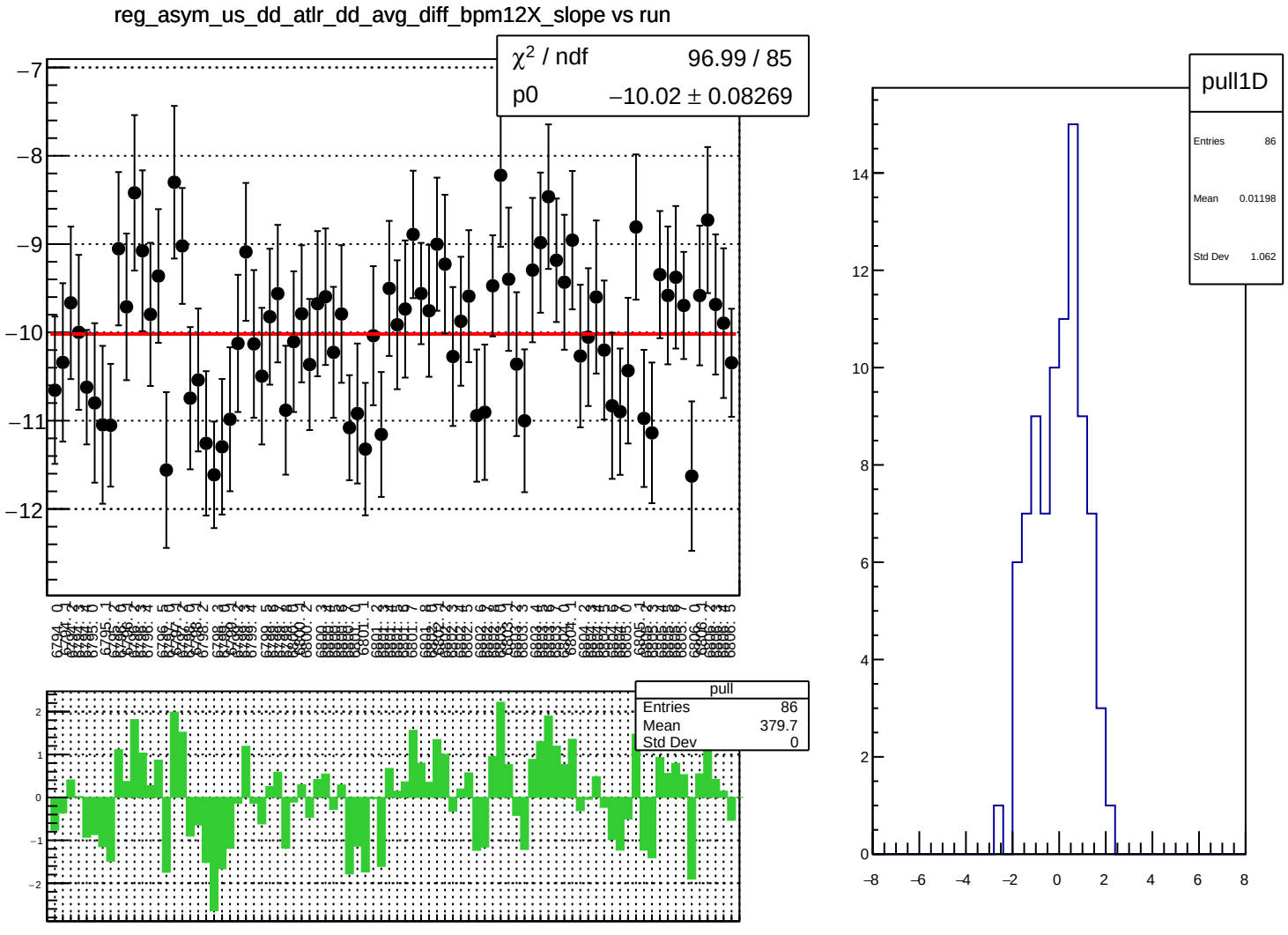

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 104.2 / 85
p0 15.24 ± 0.06847
pull
Entries 86
Mean −330.5
Std Dev 0
pull1D
Entries 86
Mean 0.01751
Std Dev 1.1

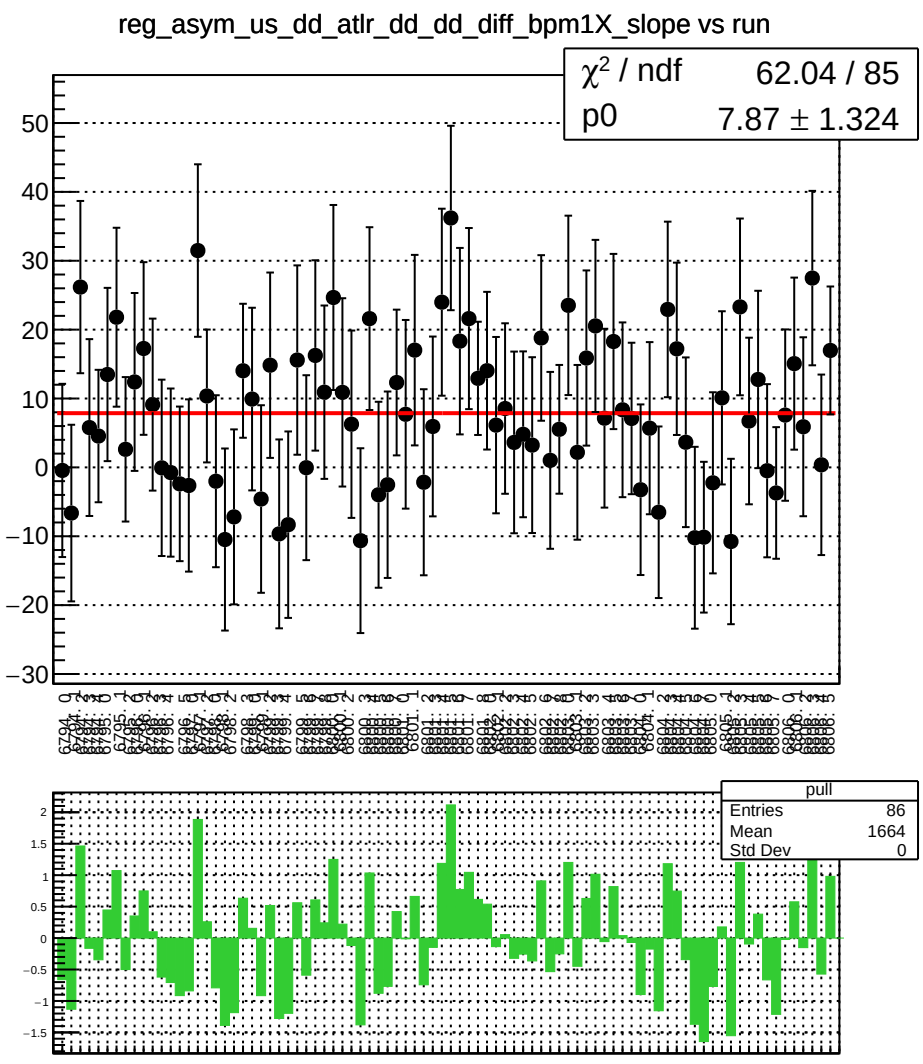

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 83.52 / 85
p0 −15.35 ± 2.187
pull
Entries 86
Mean −95.11
Std Dev 0
pull1D
Entries 86
Mean −0.02626
Std Dev 0.9851

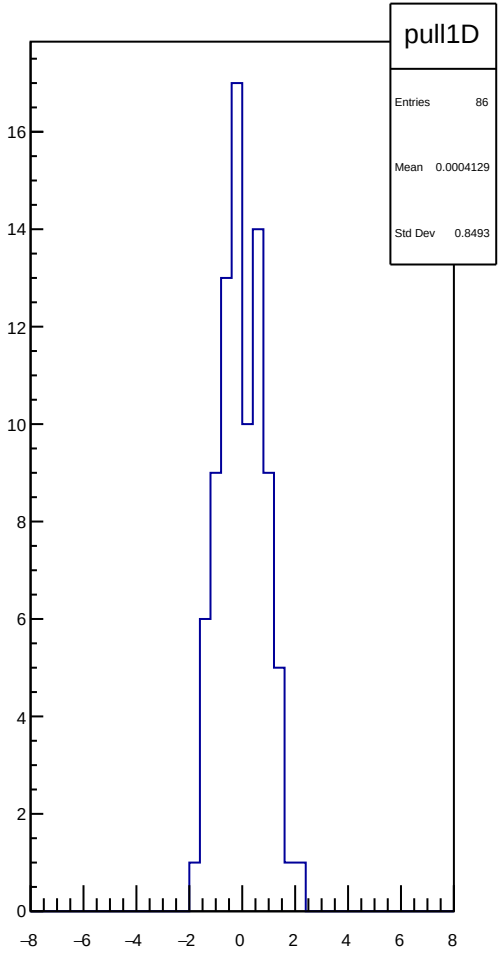

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 70.9 / 85
p0 −1.973 ± 1.033
pull
Entries 86
Mean 163.7
Std Dev 0
pull1D
Entries 86
Mean 0.01072
Std Dev 0.9079

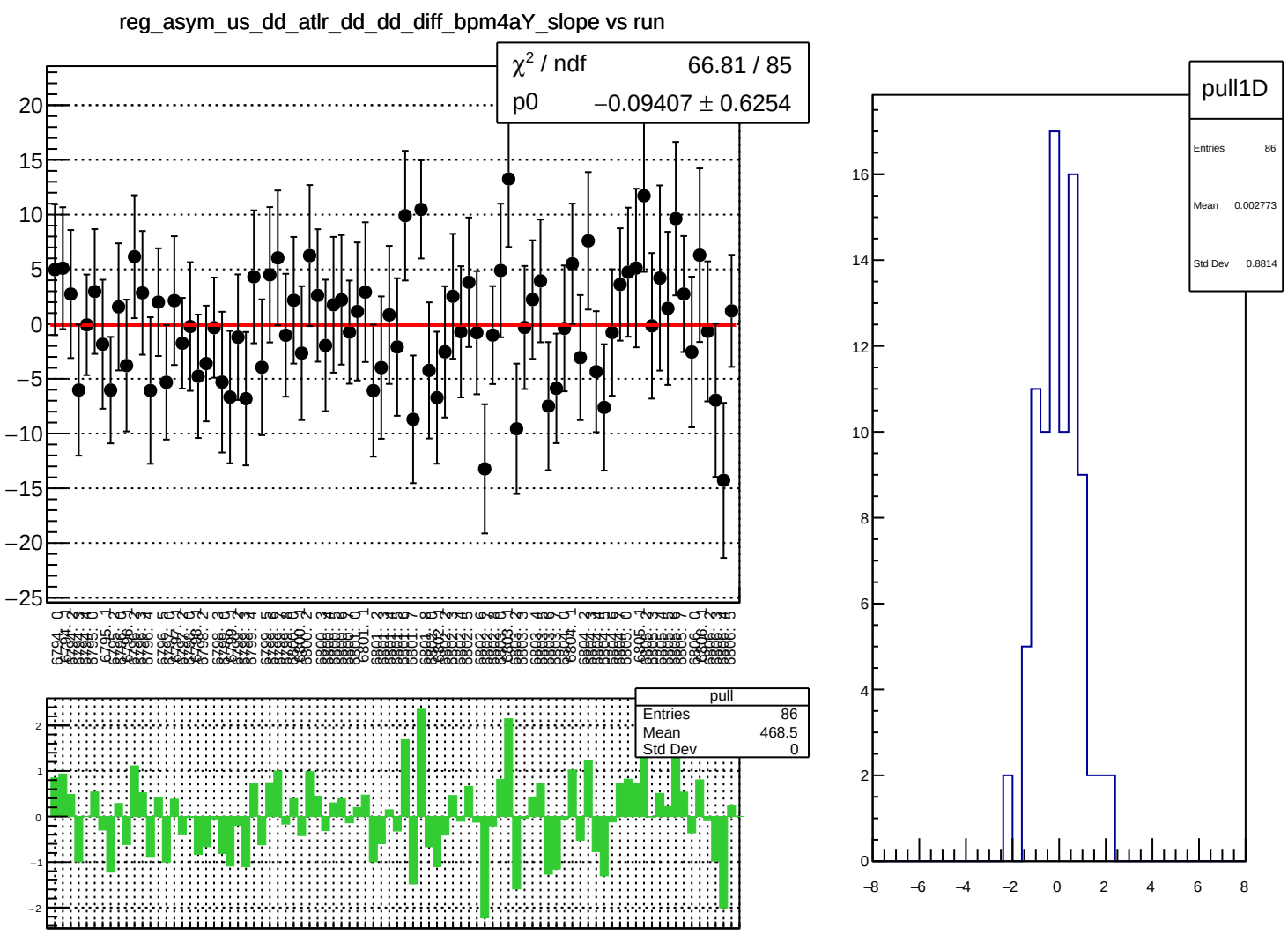

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.44 / 85
p0 −65.04 ± 2.047
pull
Entries 86
Mean −81.57
Std Dev 0
pull1D
Entries 86
Mean 0.02855
Std Dev 0.9963

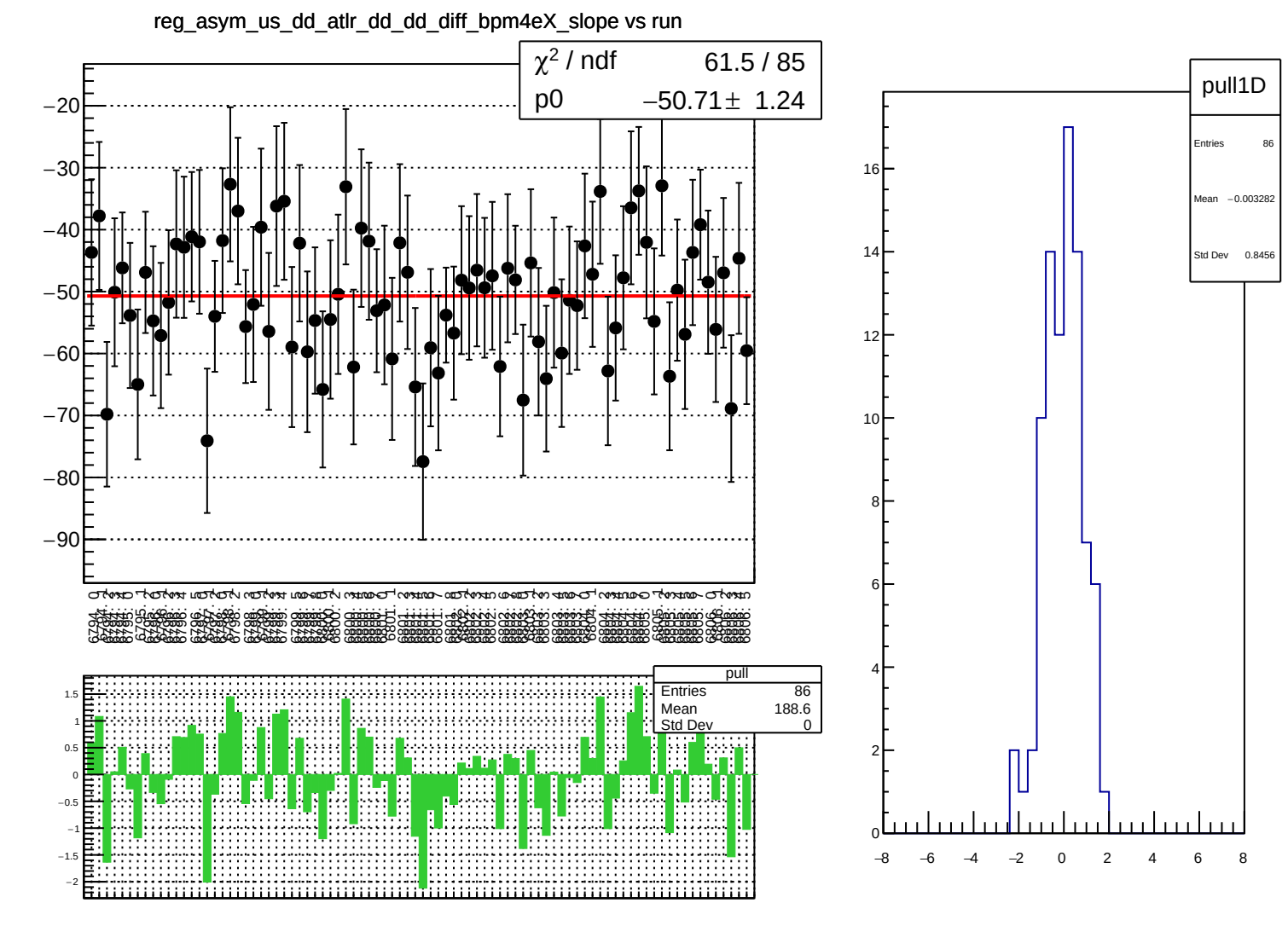

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 70.77 / 85
p0 10.45 ± 1.437
pull
Entries 86
Mean 99.53
Std Dev 0
pull1D
Entries 86
Mean −0.008531
Std Dev 0.9071

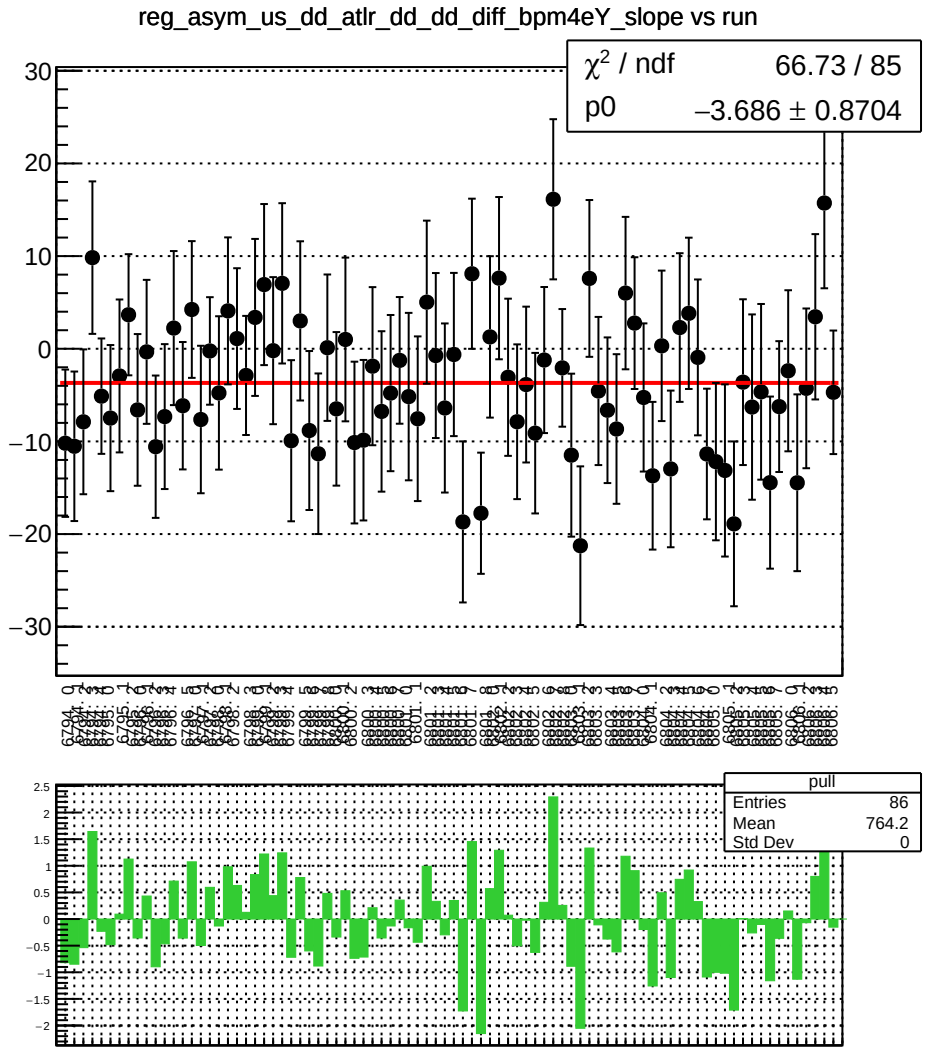

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 96.99 / 85
p0 −10.02 ± 0.08269
pull
Entries 86
Mean 379.7
Std Dev 0
pull1D
Entries 86
Mean 0.01198
Std Dev 1.062

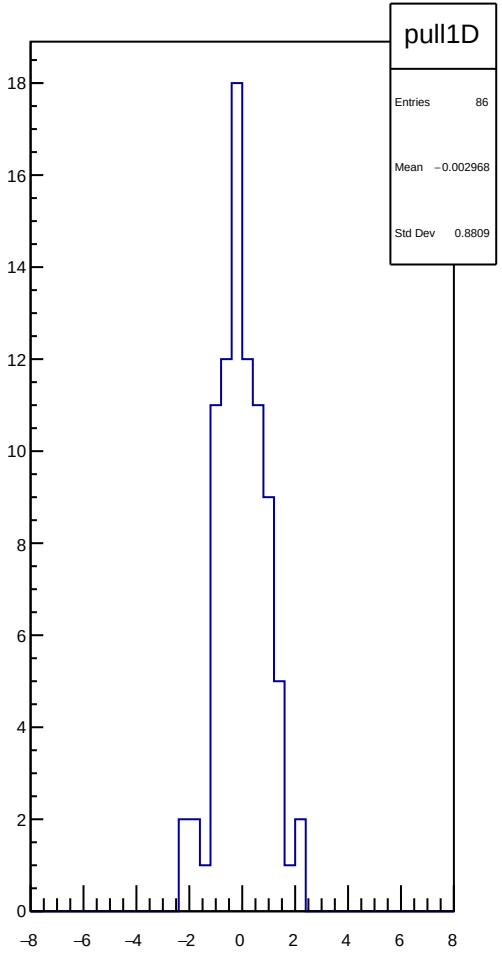

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 62.04 / 85
p0 7.87 ± 1.324
pull
Entries 86
Mean 1664
Std Dev 0

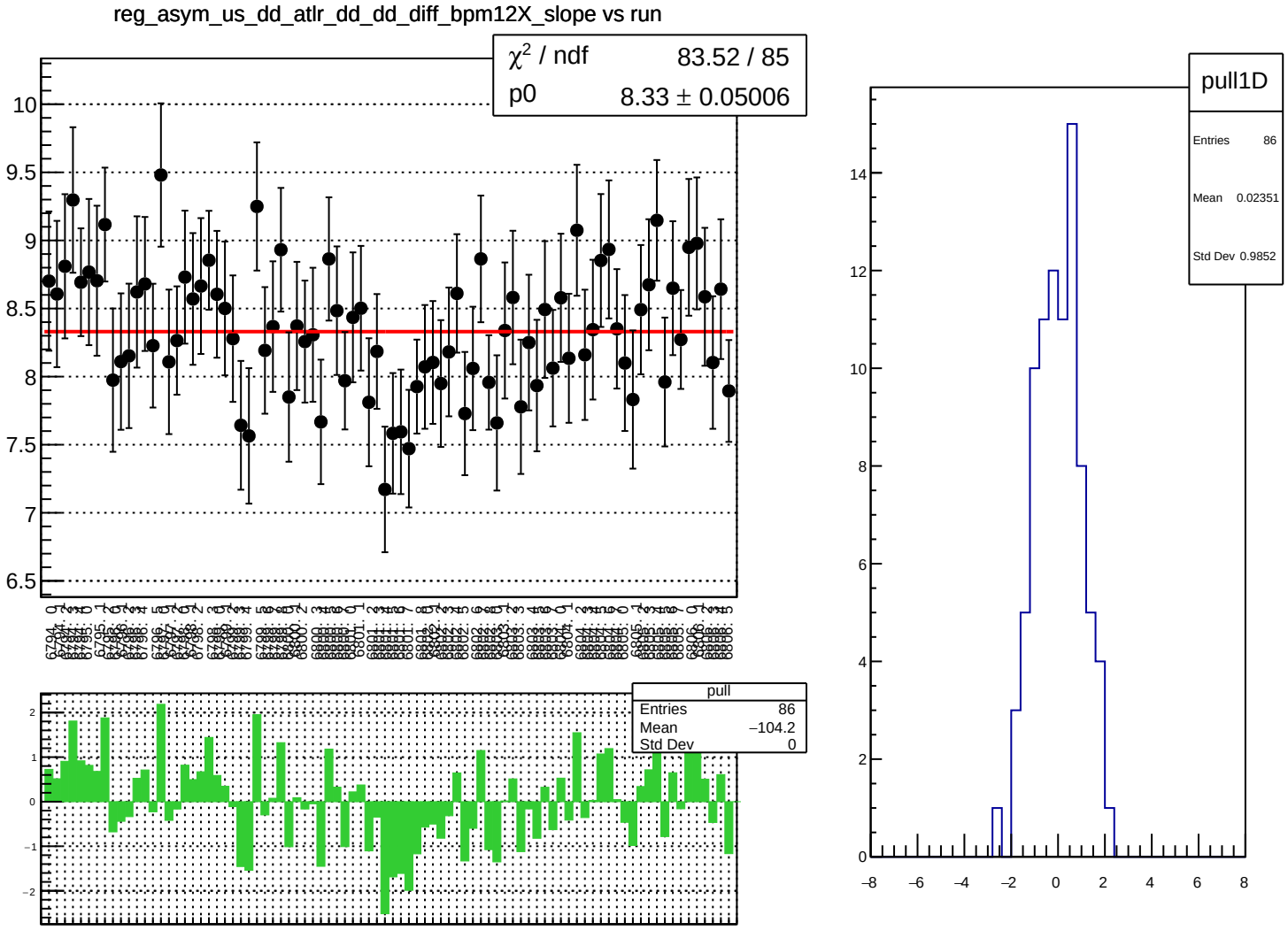

pull1D
Entries 86
Mean 0.0004129
Std Dev 0.8493

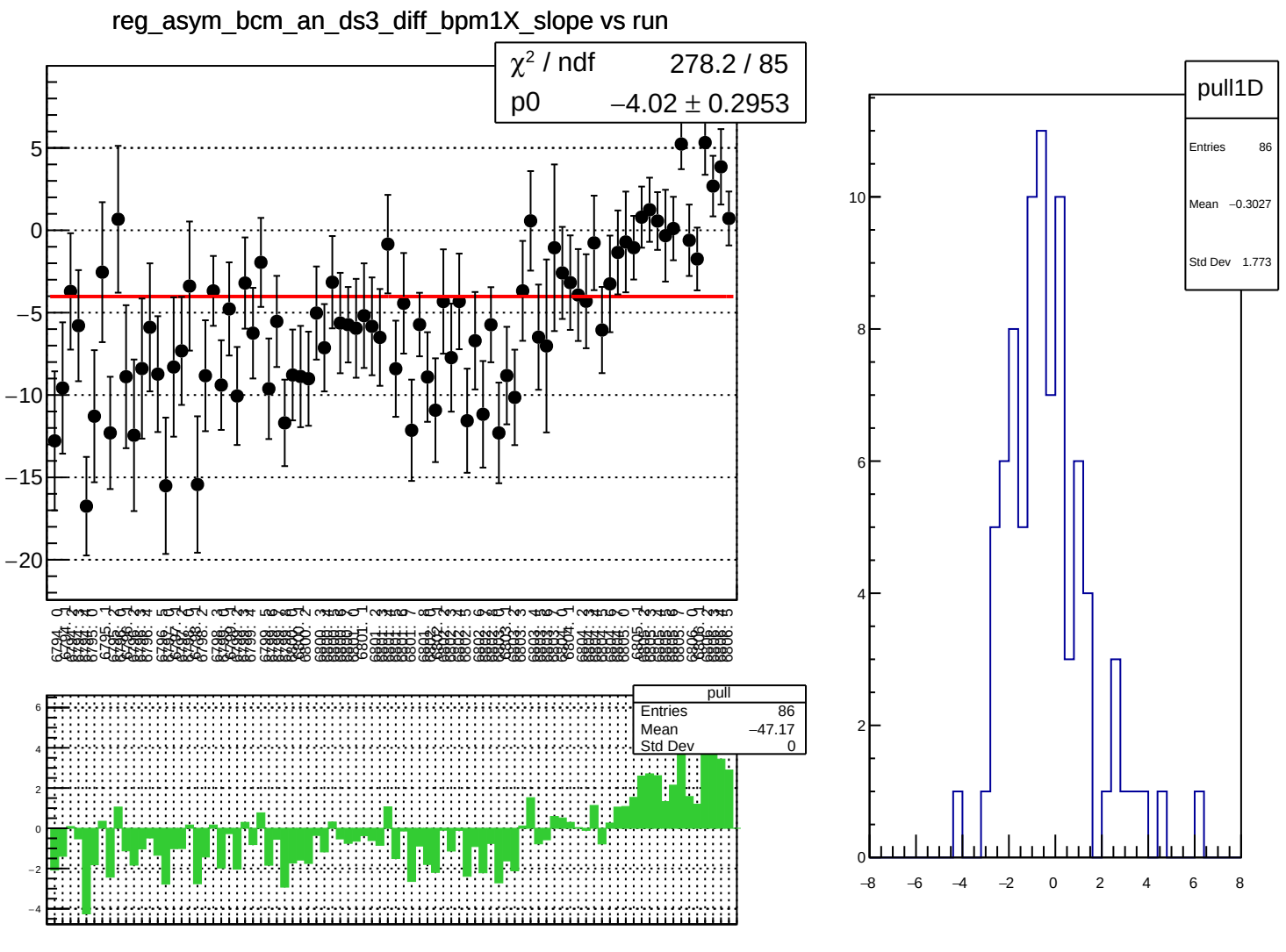

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.81 / 85
p0 −0.09407 ± 0.6254
pull
Entries 86
Mean 468.5
Std Dev 0
pull1D
Entries 86
Mean 0.002773
Std Dev 0.8814

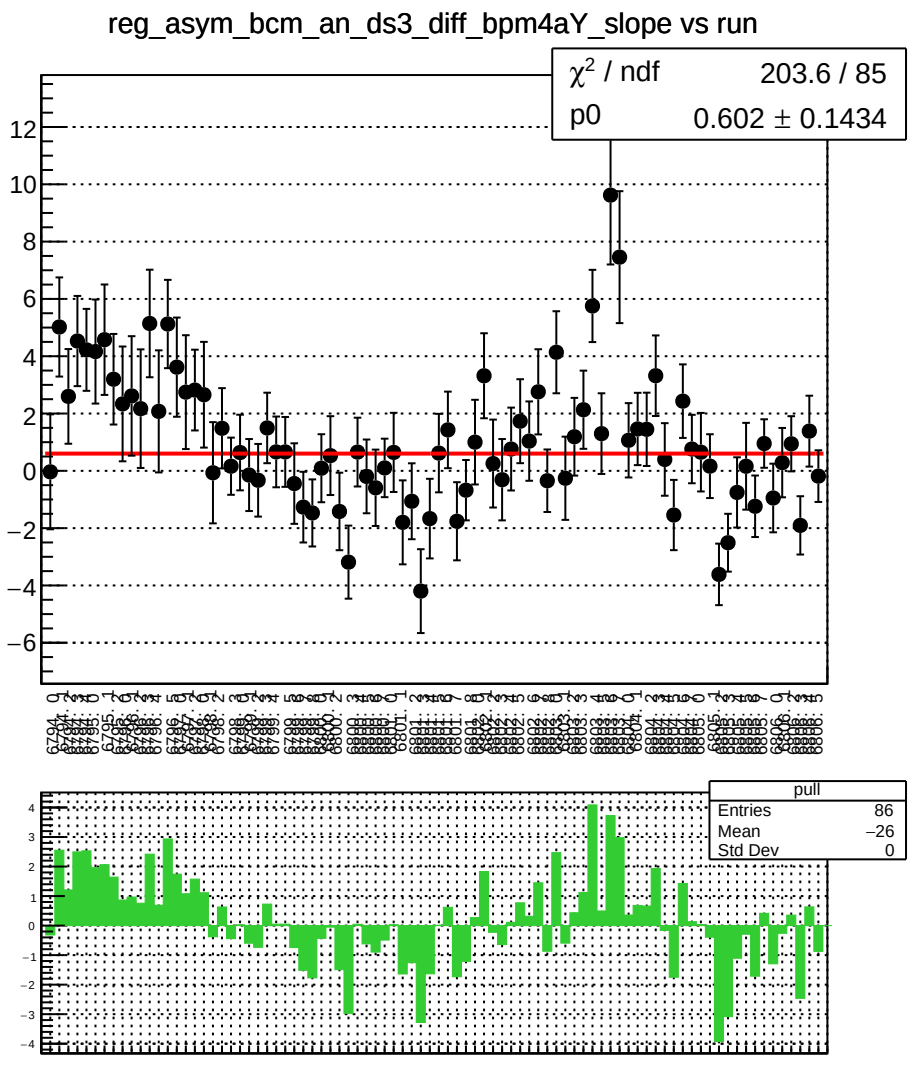

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.5 / 85
p0 −50.71 ± 1.24
pull
Entries 86
Mean 188.6
Std Dev 0
pull1D
Entries 86
Mean −0.003282
Std Dev 0.8456

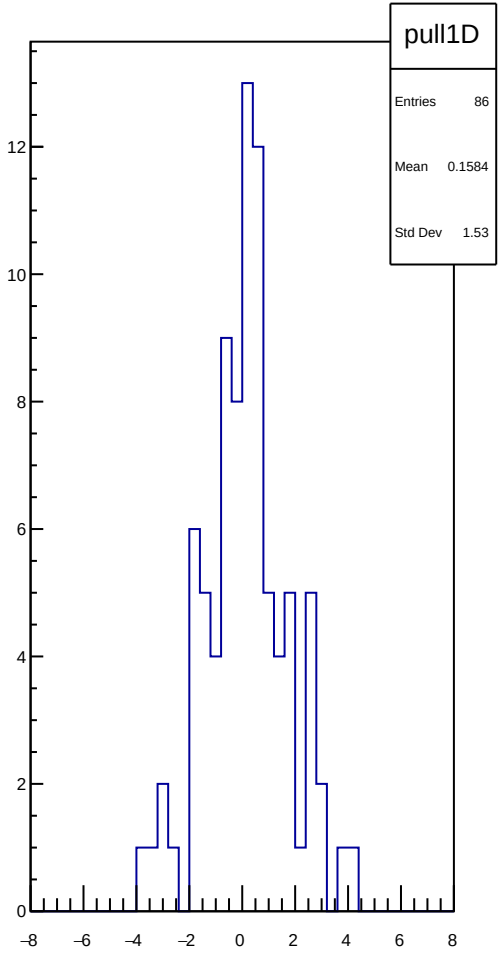

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.73 / 85
p0 −3.686 ± 0.8704
pull
Entries 86
Mean 764.2
Std Dev 0

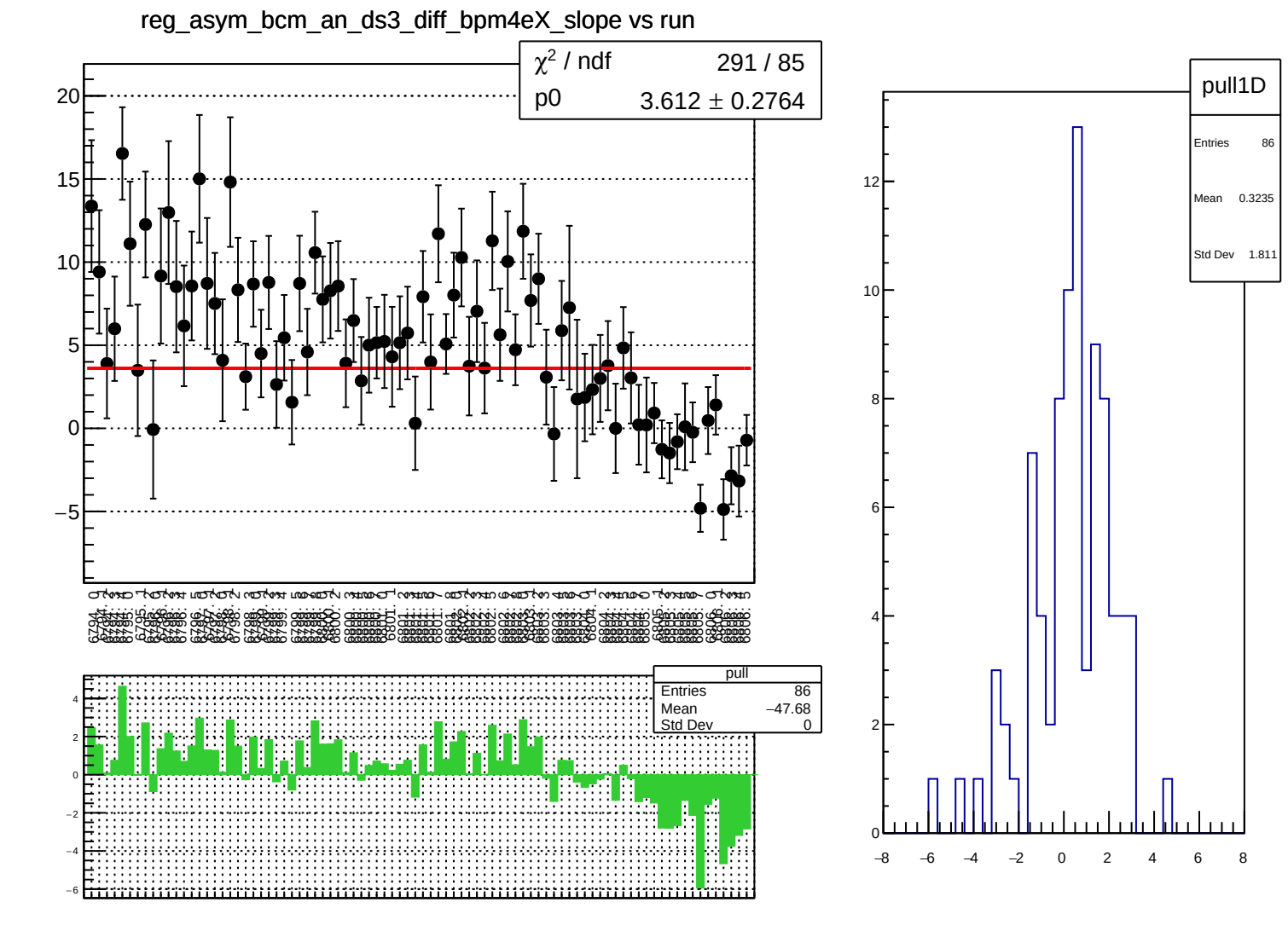

pull1D
Entries 86
Mean −0.002968
Std Dev 0.8809

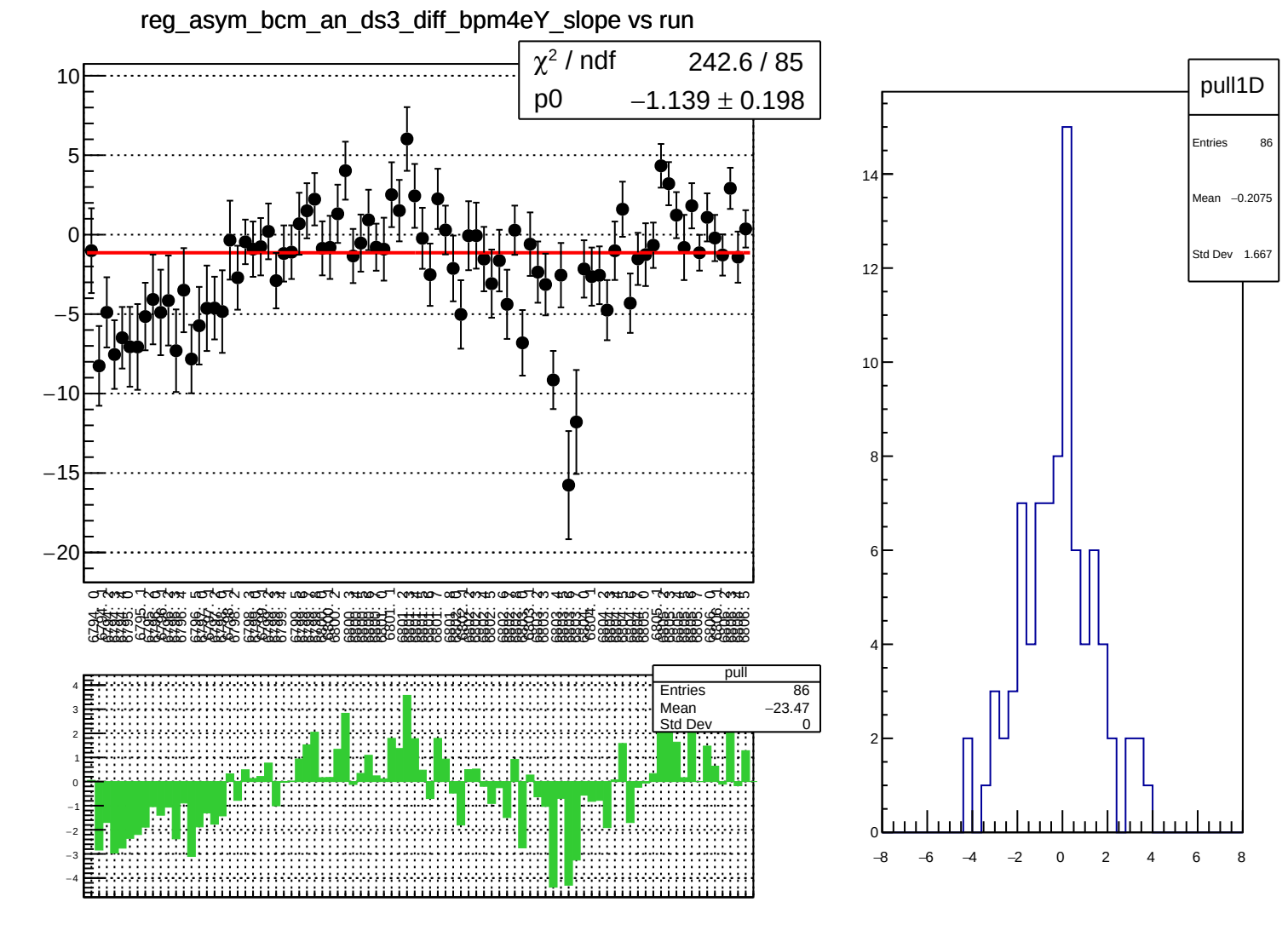

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ^2 / ndf 83.52 / 85
p0 8.33 ± 0.05006
pull
Entries 86
Mean −104.2
Std Dev 0
pull1D
Entries 86
Mean 0.02351
Std Dev 0.9852

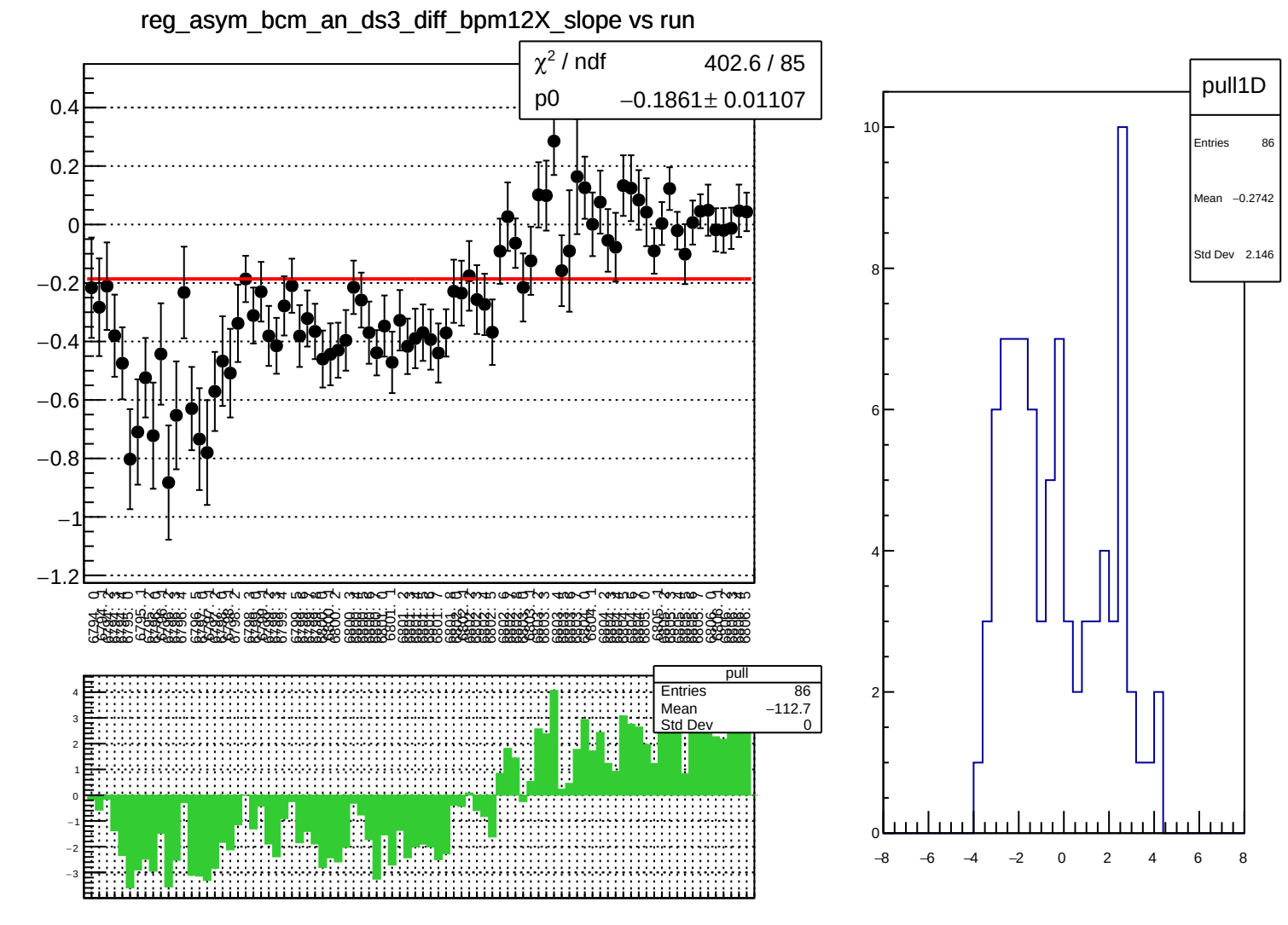

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 278.2 / 85
p0 −4.02 ± 0.2953
pull
Entries 86
Mean −47.17
Std Dev 0
pull1D
Entries 86
Mean −0.3027
Std Dev 1.773

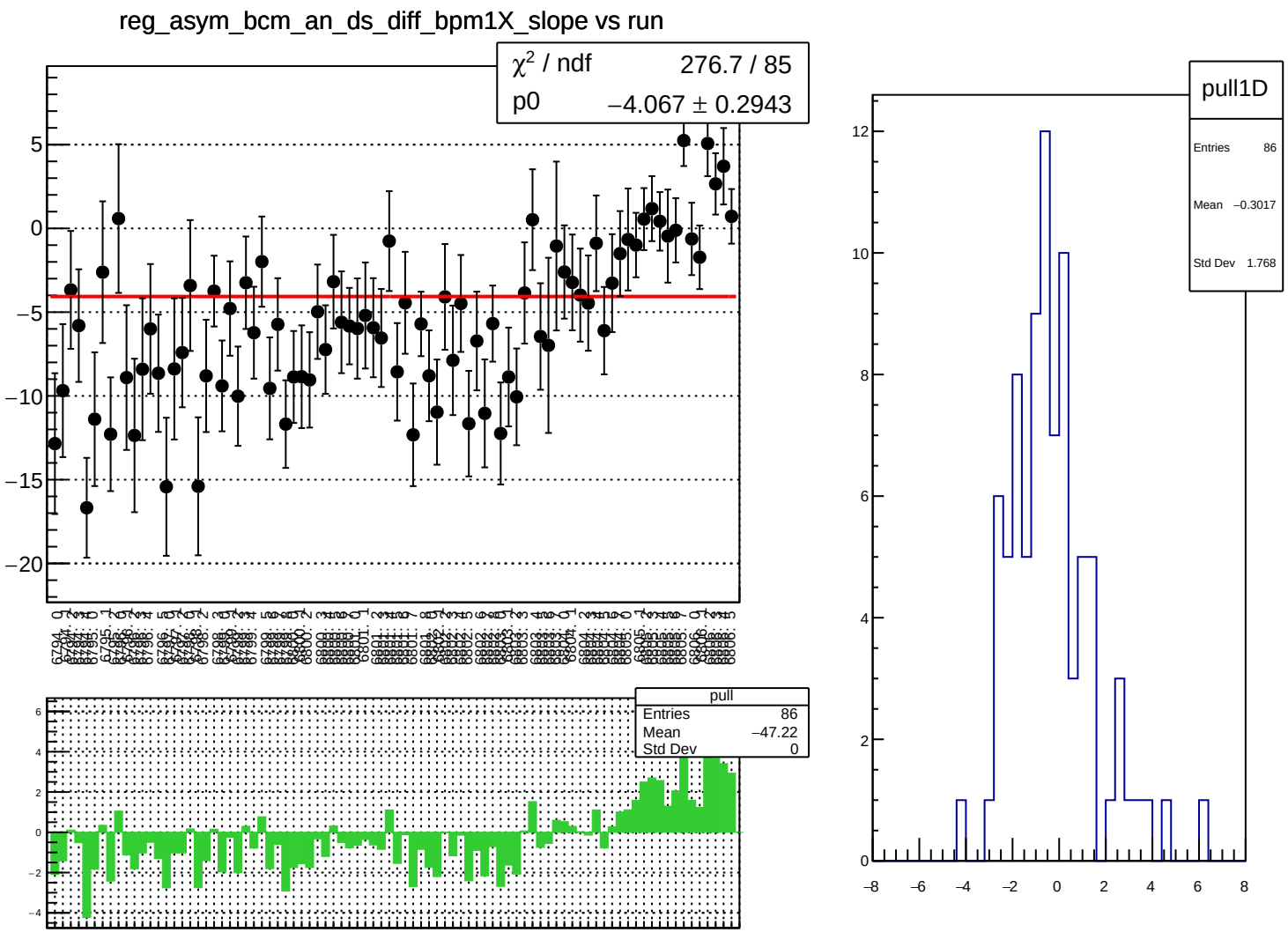

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 203.6 / 85
p0 0.602 ± 0.1434
pull
Entries 86
Mean −26
Std Dev 0

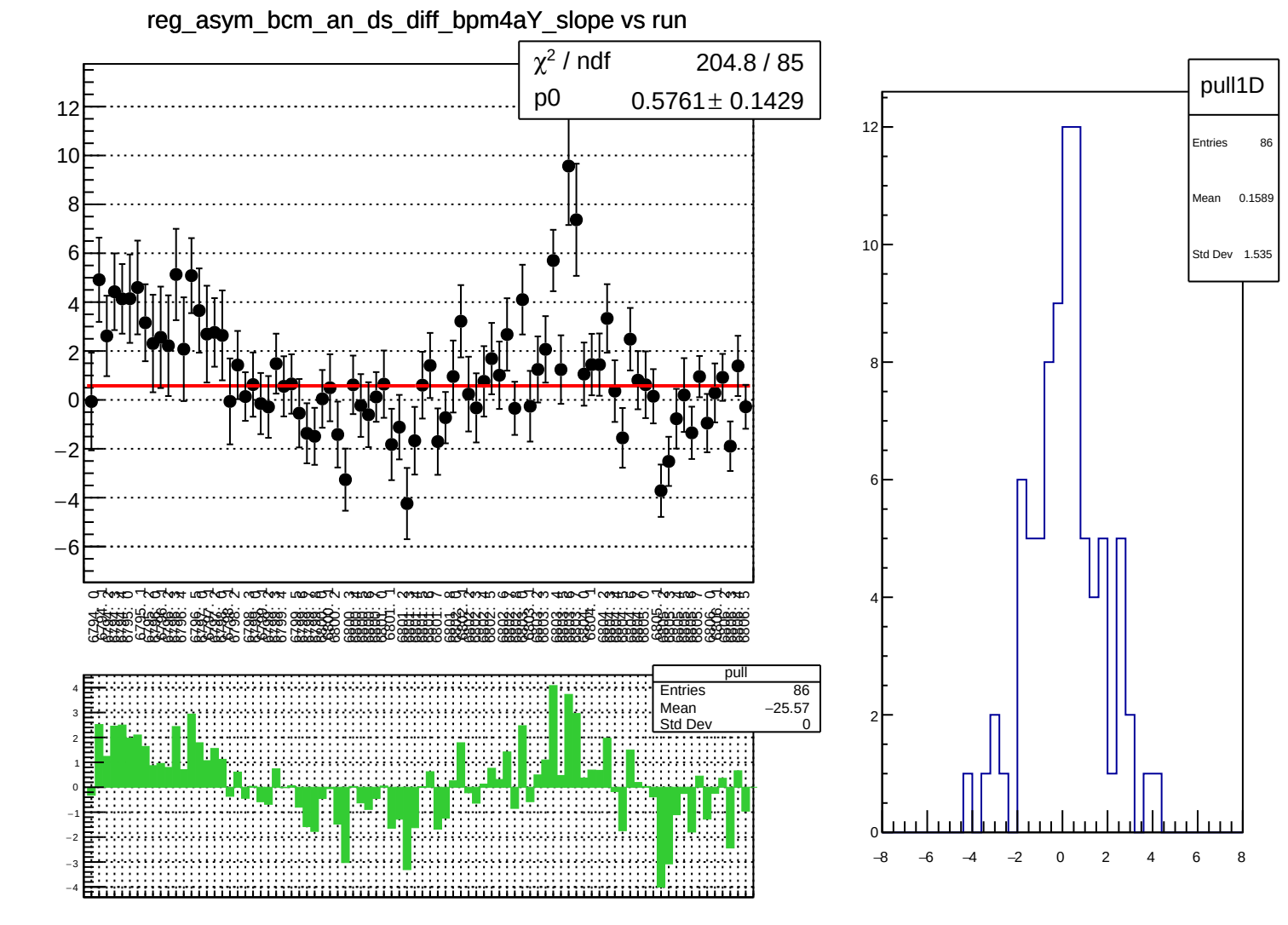

pull1D
Entries 86
Mean 0.1584
Std Dev 1.53

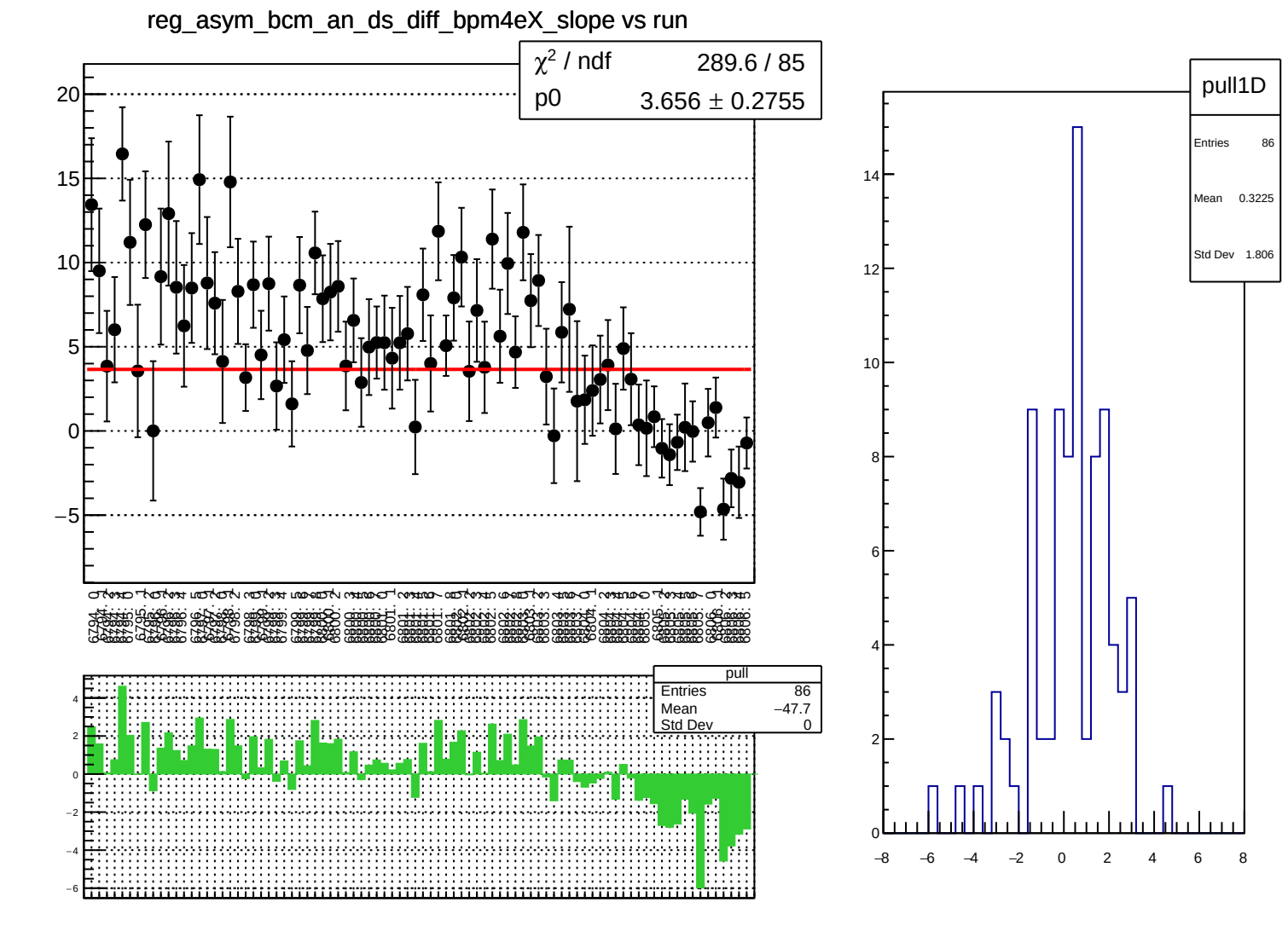

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 291 / 85
p0 3.612 ± 0.2764
pull
Entries 86
Mean −47.68
Std Dev 0
pull1D
Entries 86
Mean 0.3235
Std Dev 1.811

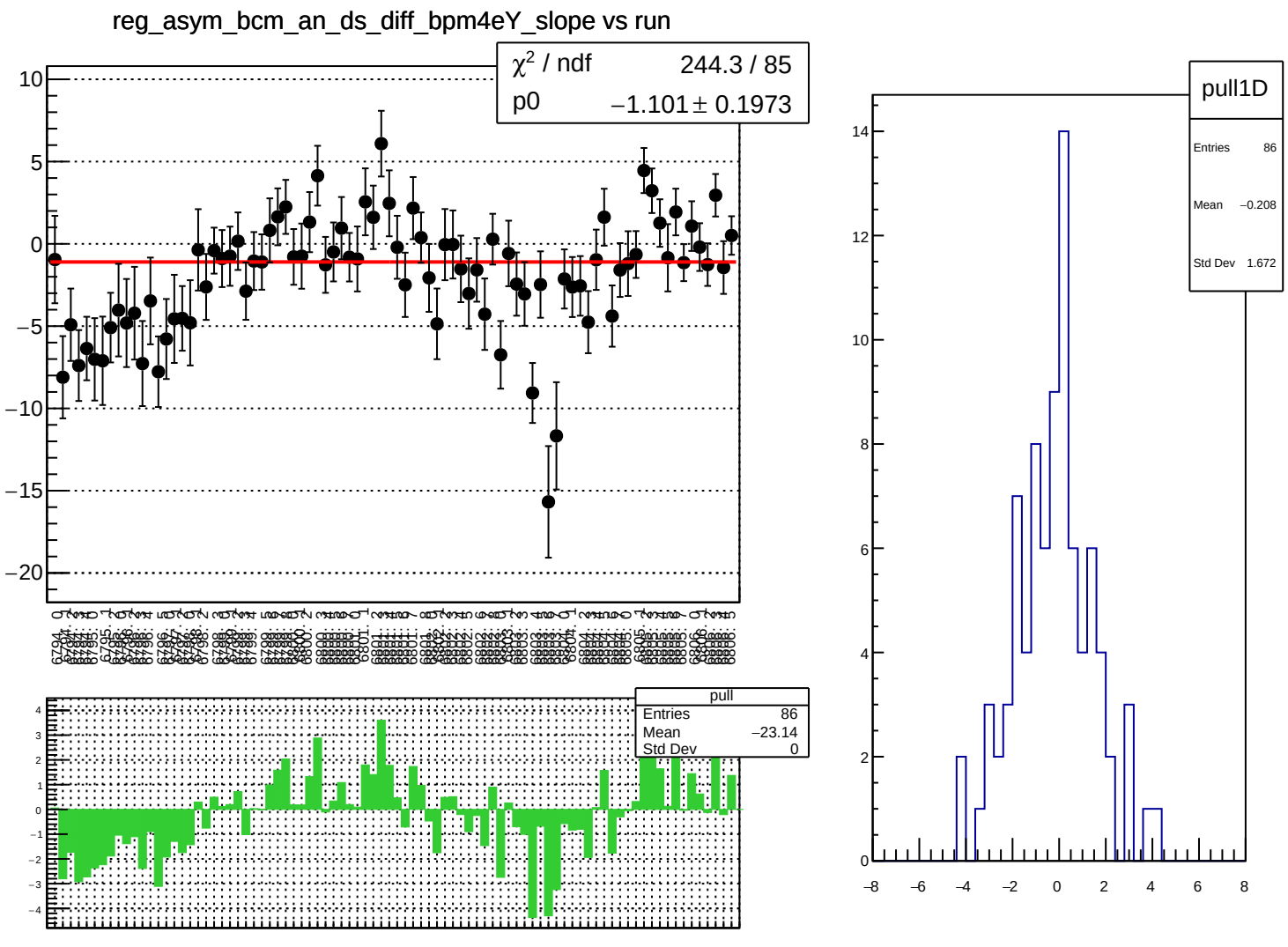

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 242.6 / 85
p0 −1.139 ± 0.198
pull
Entries 86
Mean −23.47
Std Dev 0
pull1D
Entries 86
Mean −0.2075
Std Dev 1.667

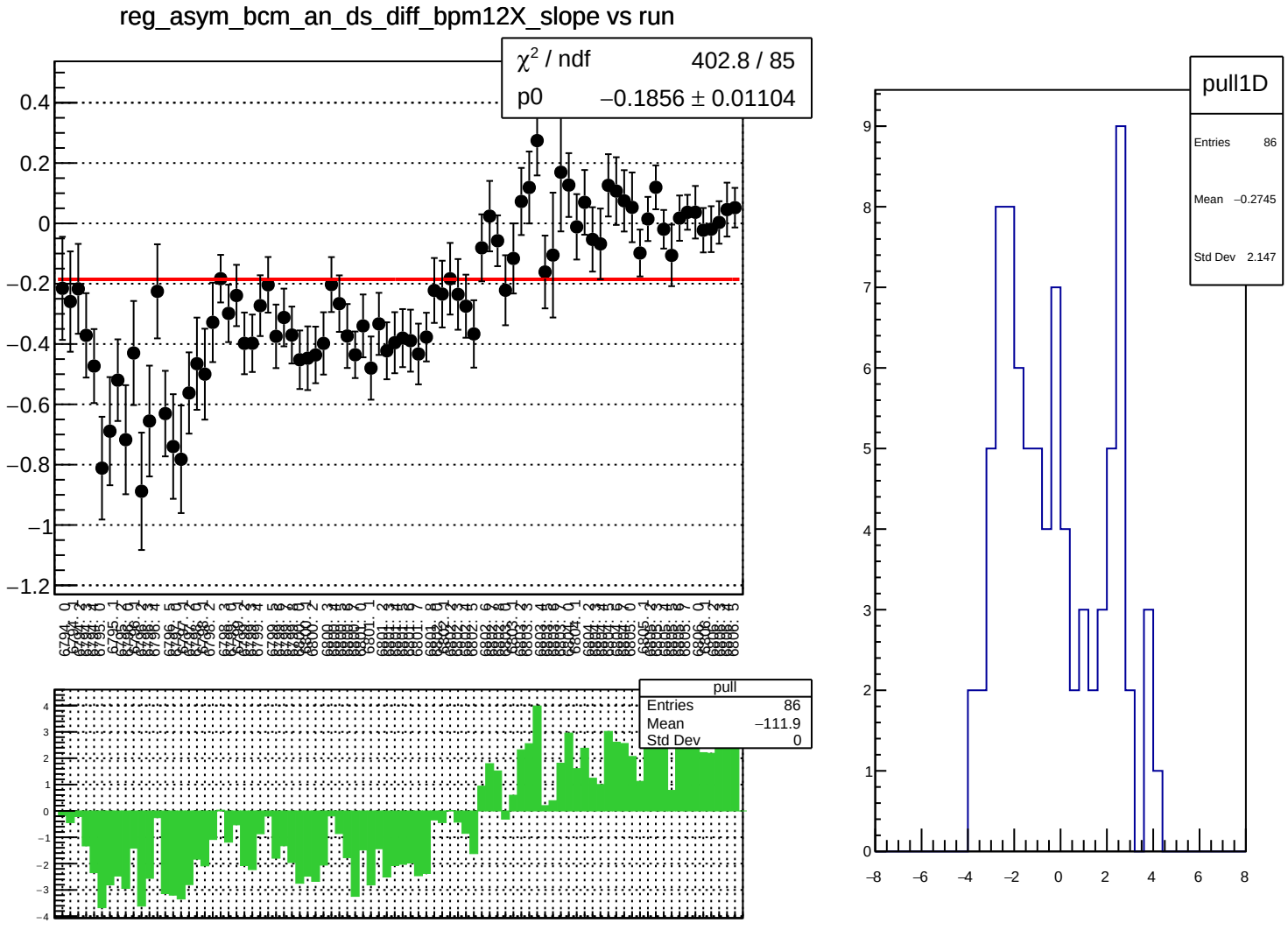

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 402.6 / 85
p0 −0.1861± 0.01107
pull
Entries 86
Mean −112.7
Std Dev 0
pull1D
Entries 86
Mean −0.2742
Std Dev 2.146

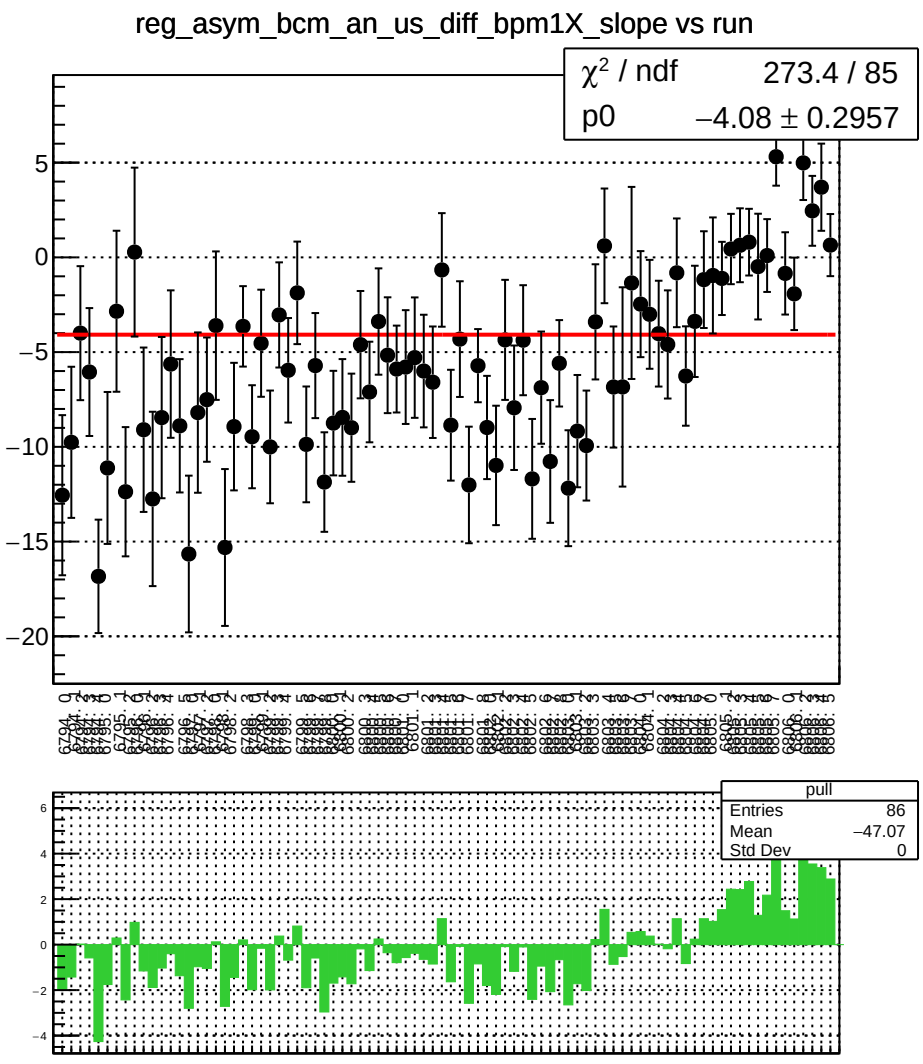

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 276.7 / 85
p0 −4.067 ± 0.2943
pull
Entries 86
Mean −47.22
Std Dev 0
pull1D
Entries 86
Mean −0.3017
Std Dev 1.768

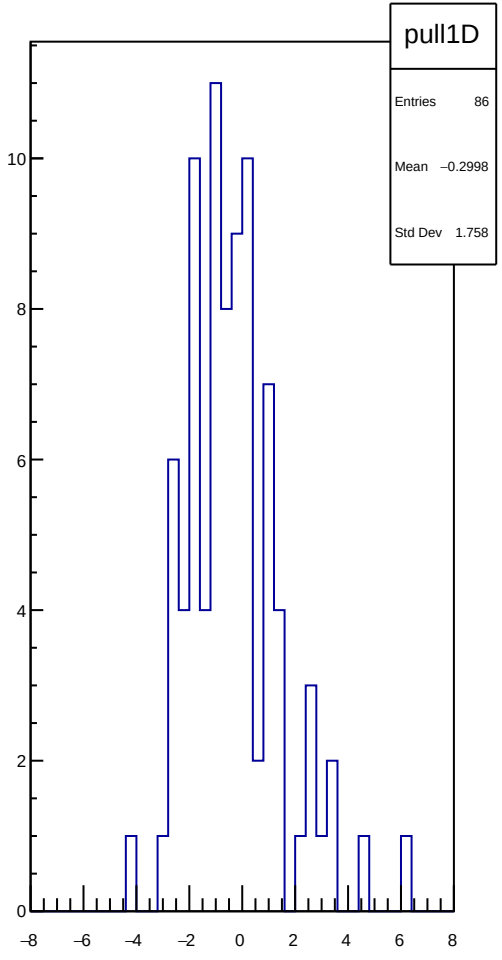

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 204.8 / 85
p0 0.5761± 0.1429
pull
Entries 86
Mean −25.57
Std Dev 0
pull1D
Entries 86
Mean 0.1589
Std Dev 1.535

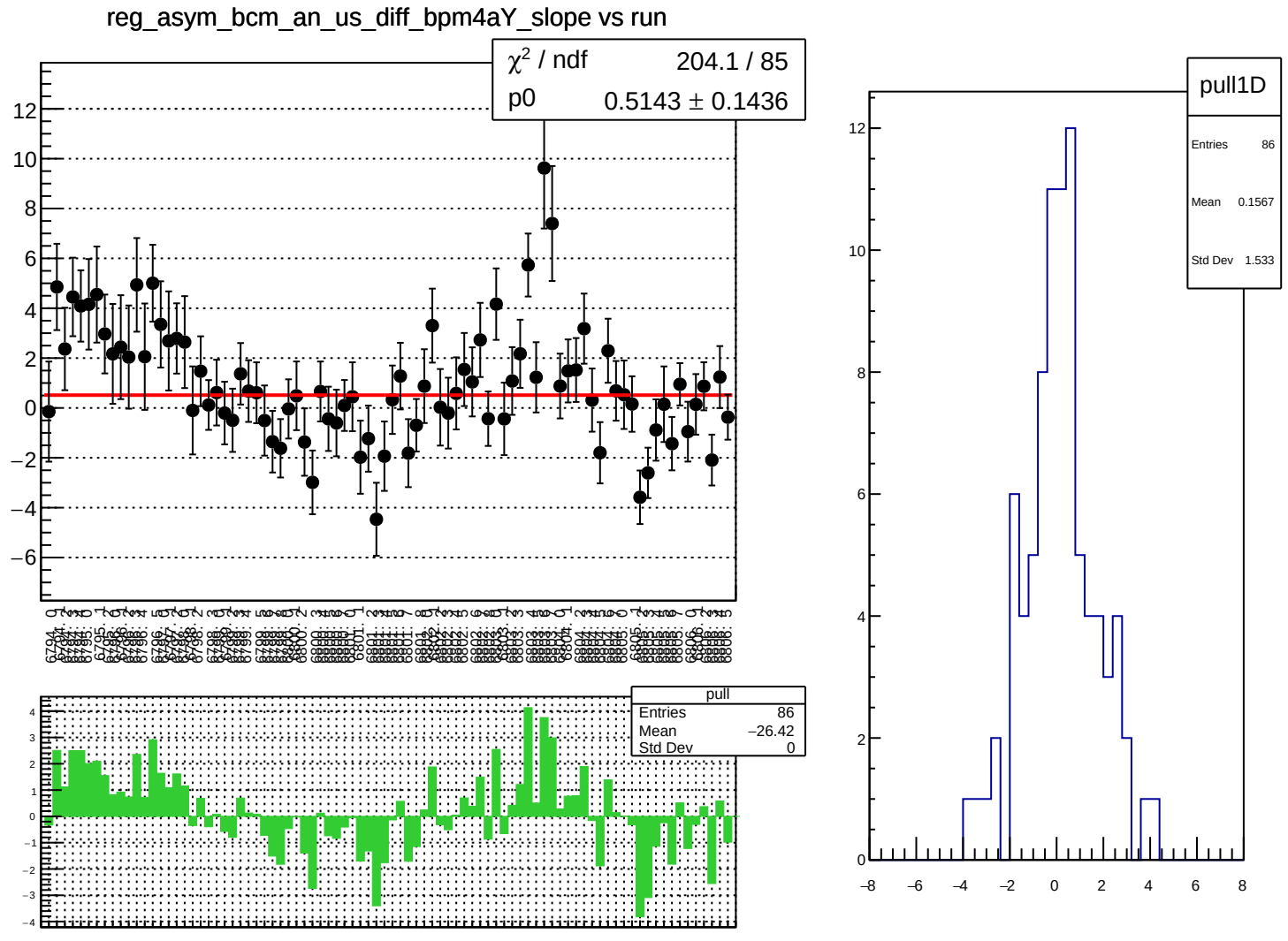

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 289.6 / 85
p0 3.656 ± 0.2755
pull
Entries 86
Mean −47.7
Std Dev 0
pull1D
Entries 86
Mean 0.3225
Std Dev 1.806

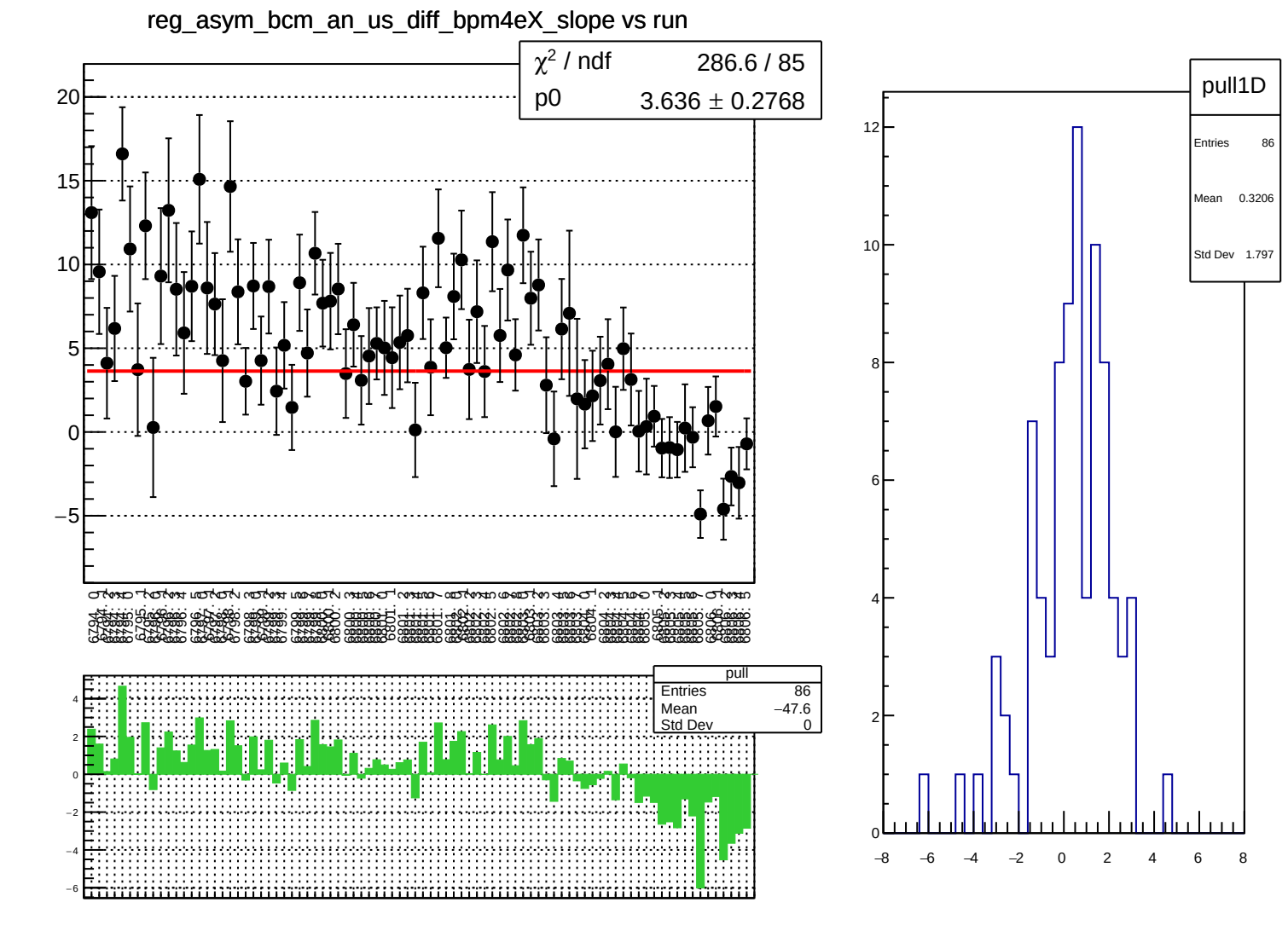

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 244.3 / 85
p0 −1.101 ± 0.1973
pull
Entries 86
Mean −23.14
Std Dev 0
pull1D
Entries 86
Mean −0.208
Std Dev 1.672

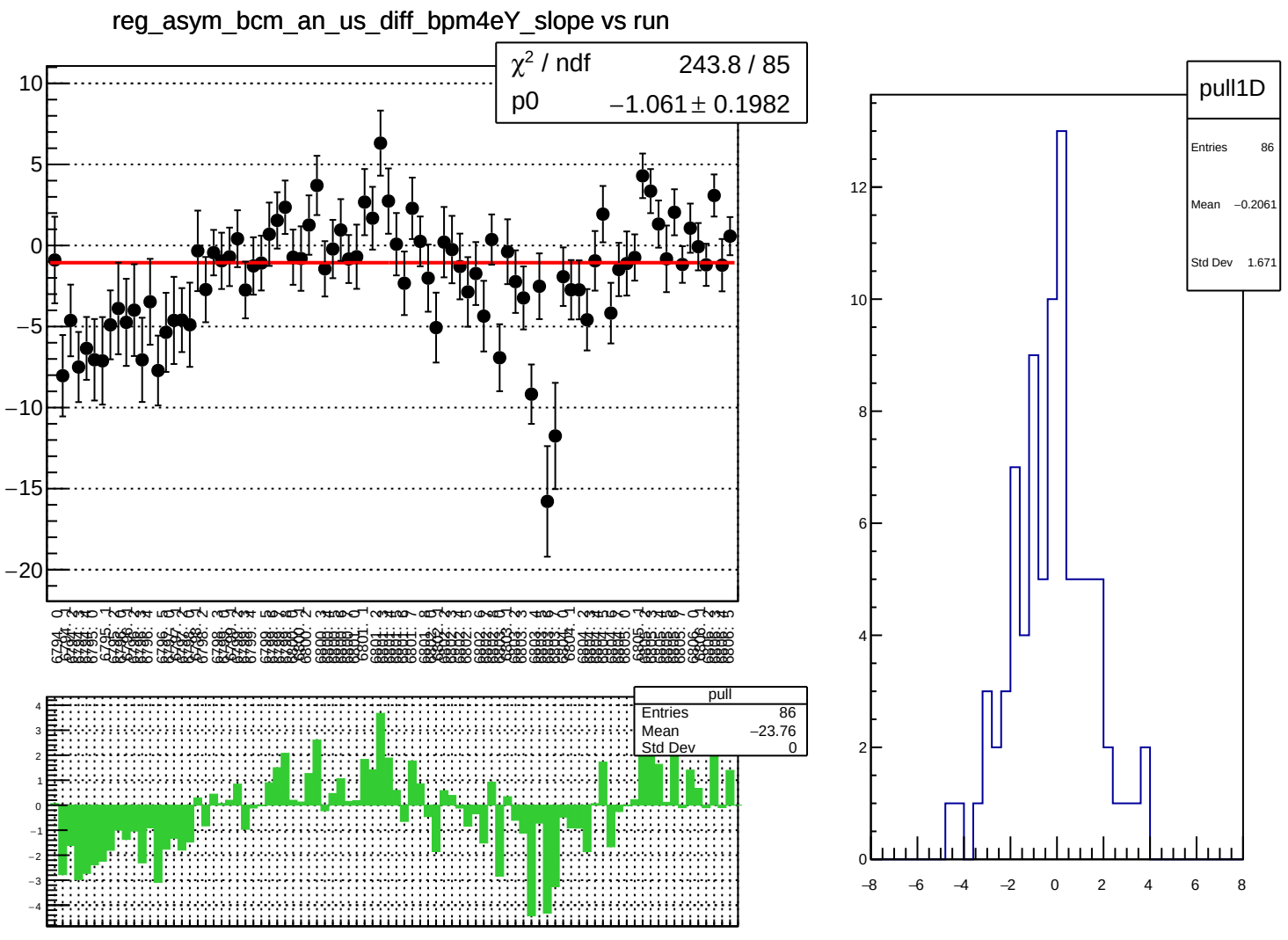

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 402.8 / 85
p0 −0.1856 ± 0.01104
pull
Entries 86
Mean −111.9
Std Dev 0
pull1D
Entries 86
Mean −0.2745
Std Dev 2.147

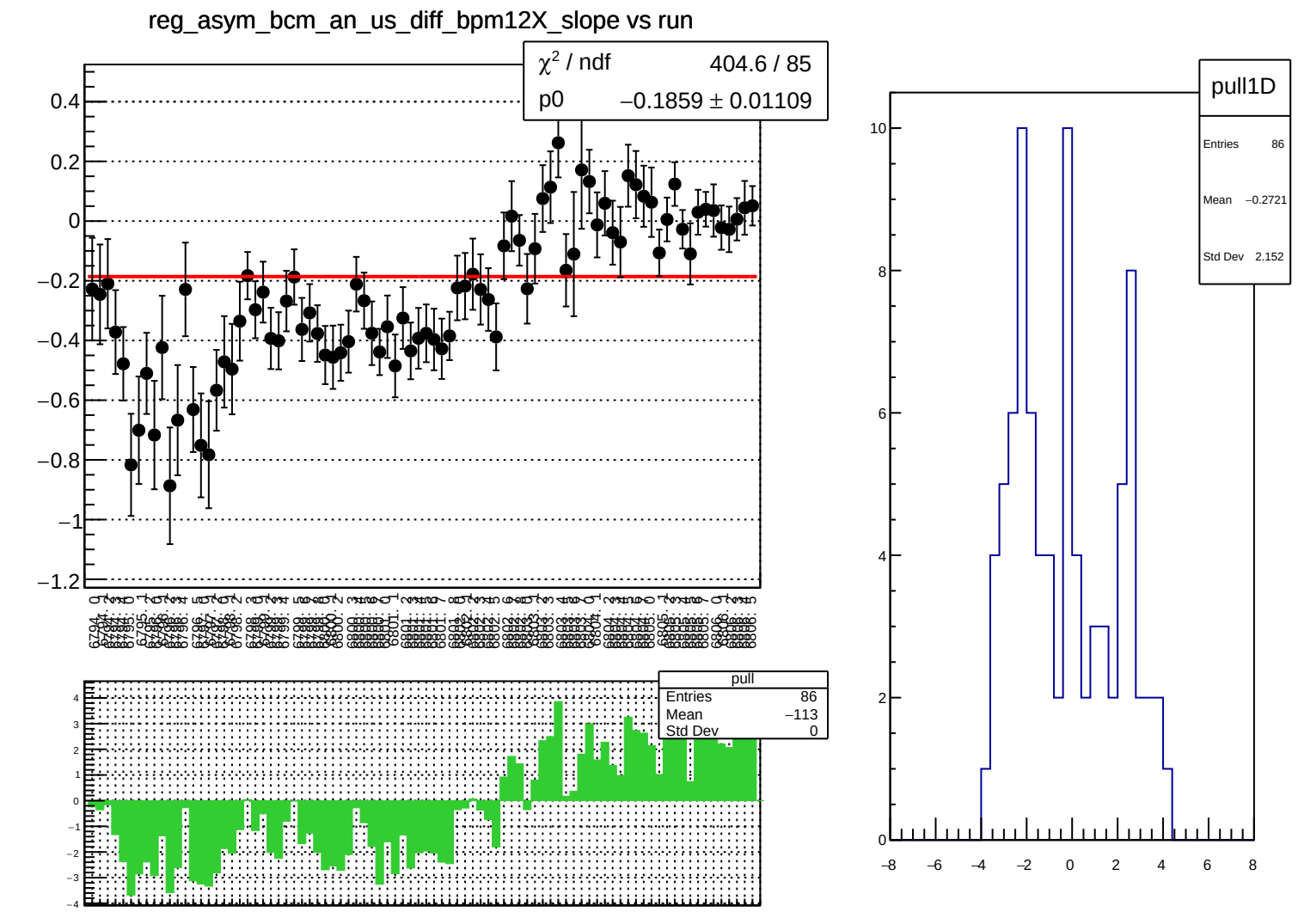

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 273.4 / 85
p0 −4.08 ± 0.2957
pull
Entries 86
Mean −47.07
Std Dev 0

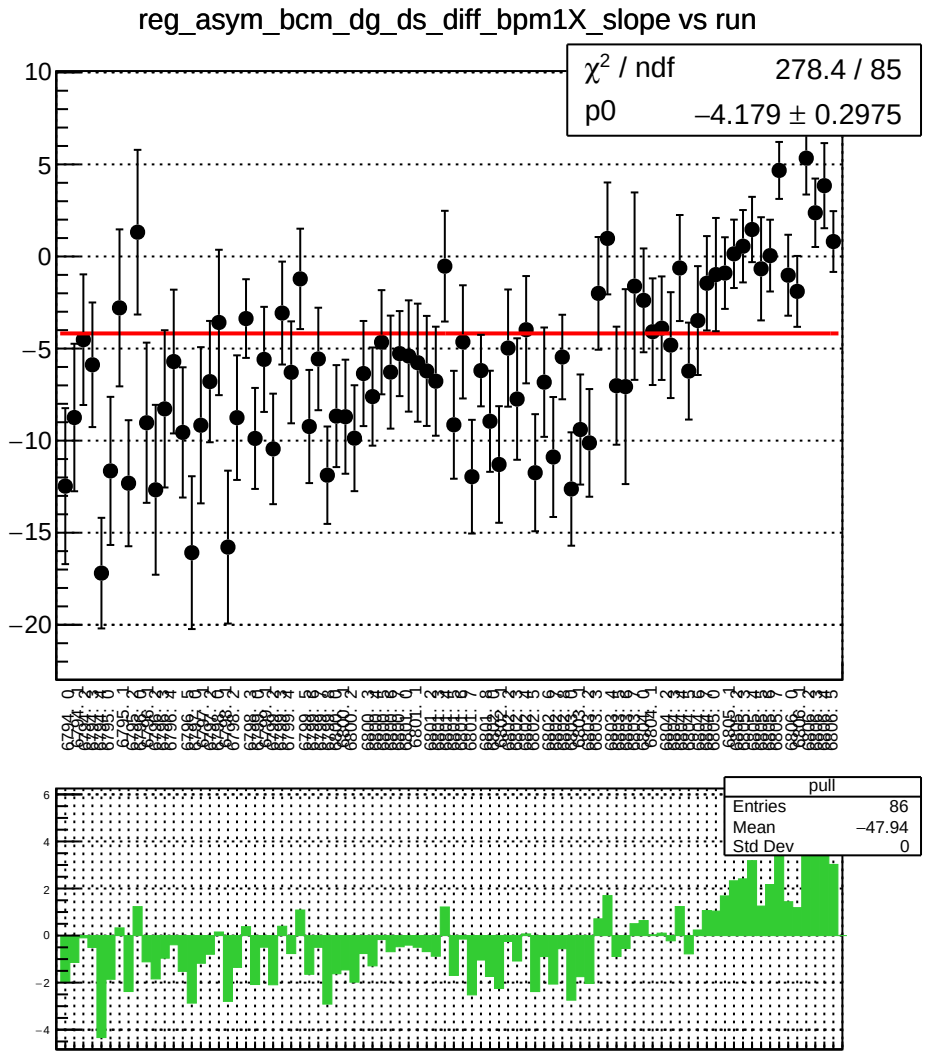

pull1D
Entries 86
Mean −0.2998
Std Dev 1.758

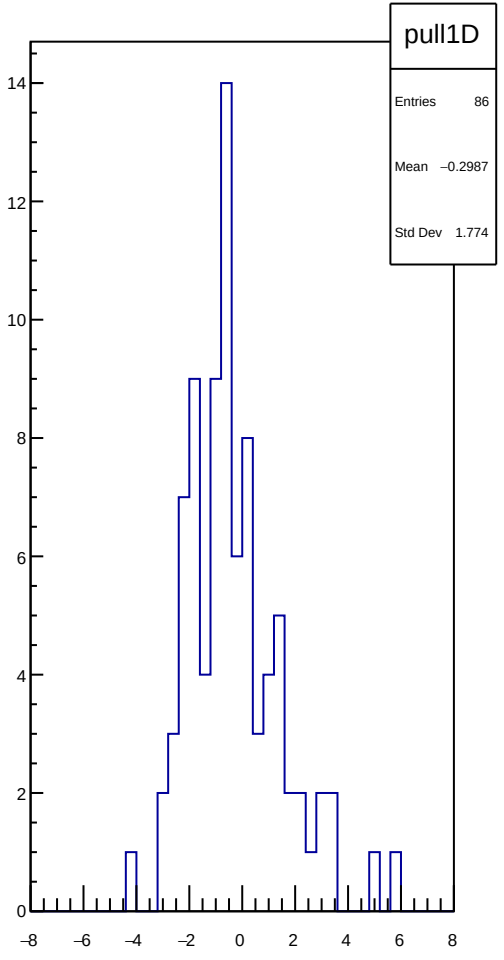

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 204.1 / 85
p0 0.5143 ± 0.1436
pull
Entries 86
Mean −26.42
Std Dev 0
pull1D
Entries 86
Mean 0.1567
Std Dev 1.533

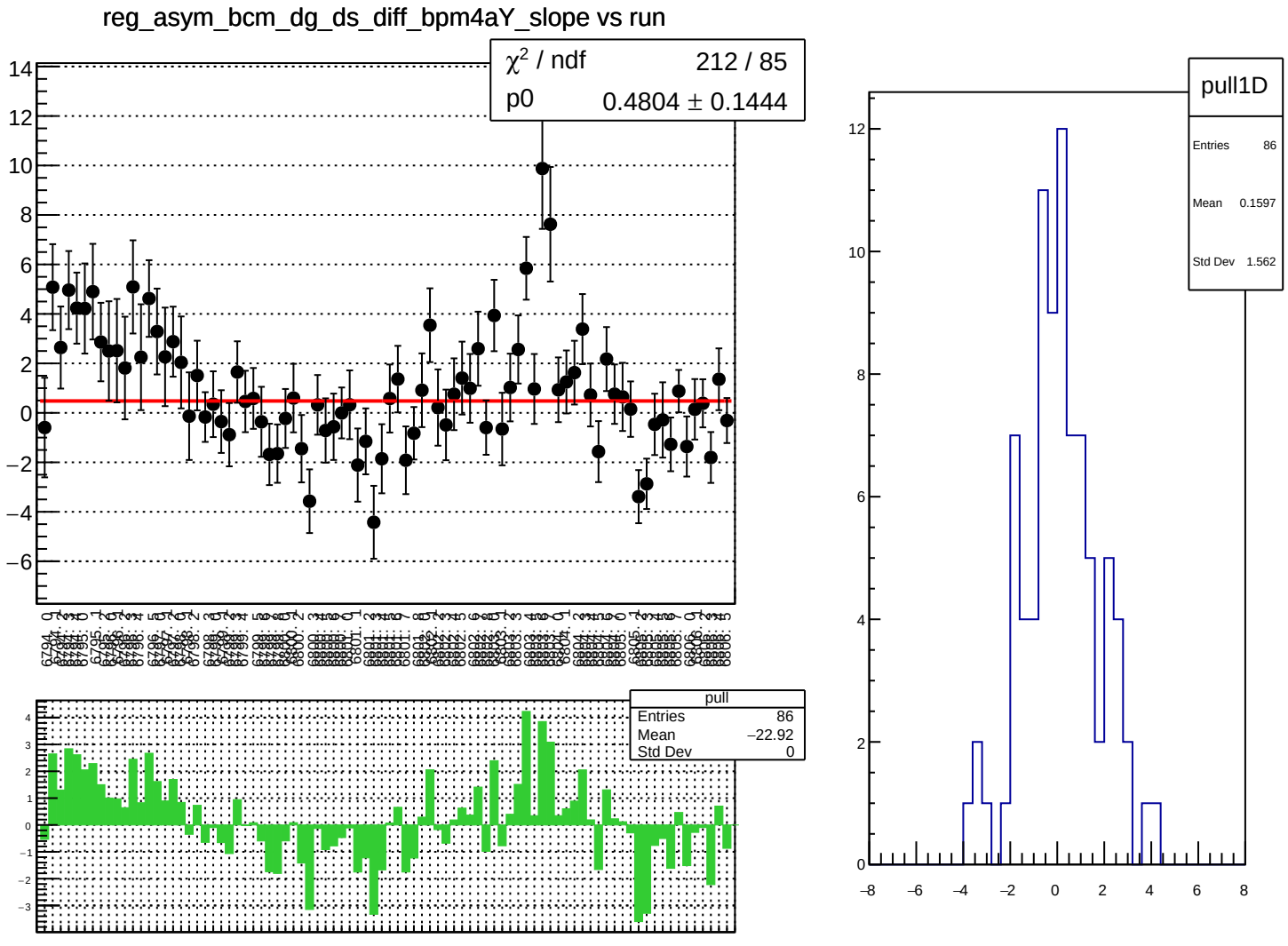

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 286.6 / 85
p0 3.636 ± 0.2768
pull
Entries 86
Mean −47.6
Std Dev 0
pull1D
Entries 86
Mean 0.3206
Std Dev 1.797

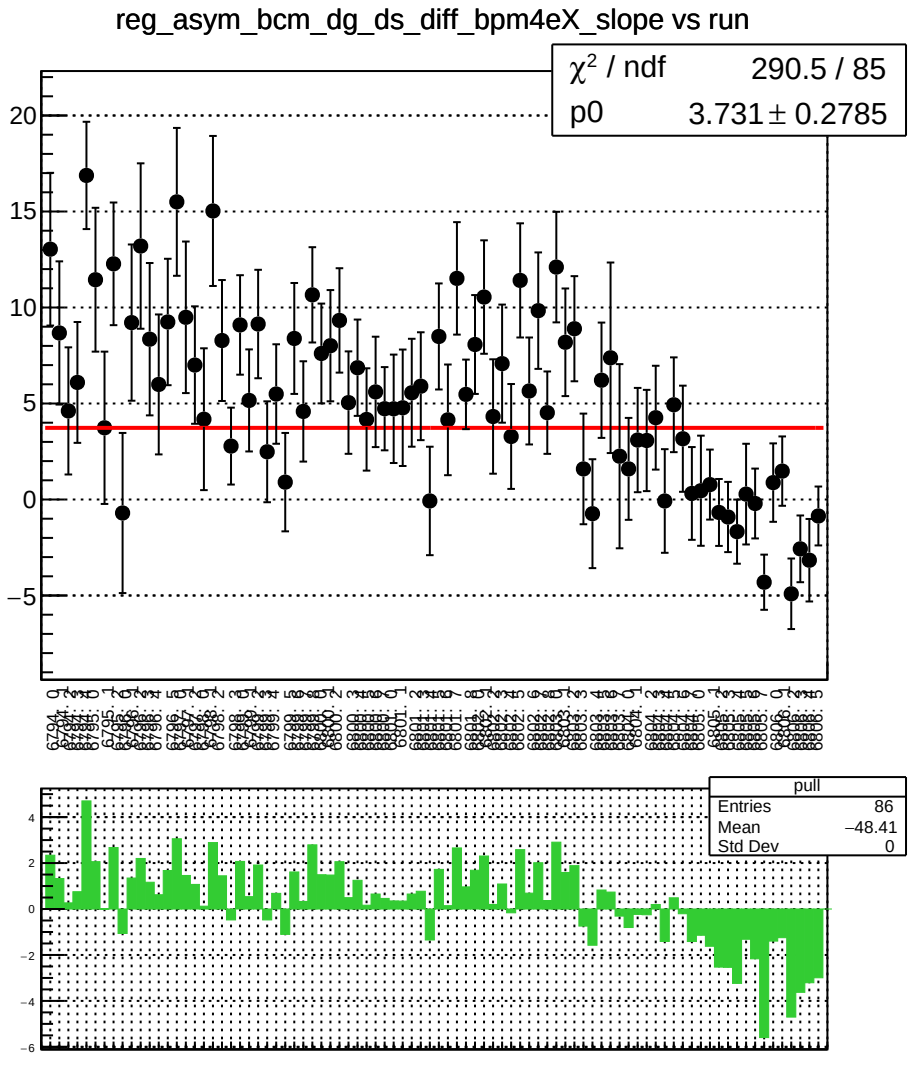

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 243.8 / 85
p0 −1.061 ± 0.1982
pull
Entries 86
Mean −23.76
Std Dev 0
pull1D
Entries 86
Mean −0.2061
Std Dev 1.671

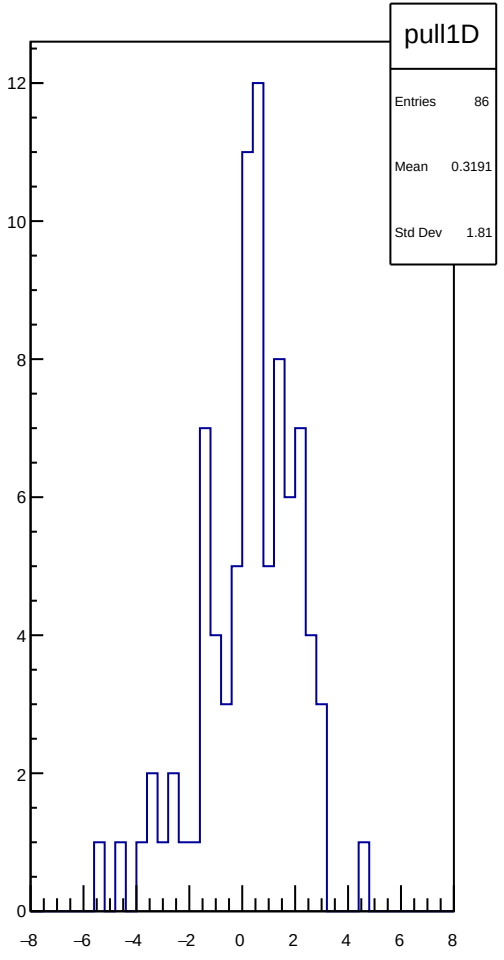

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 404.6 / 85
p0 −0.1859 ± 0.01109
pull
Entries 86
Mean −113
Std Dev 0
pull1D
Entries 86
Mean −0.2721
Std Dev 2.152

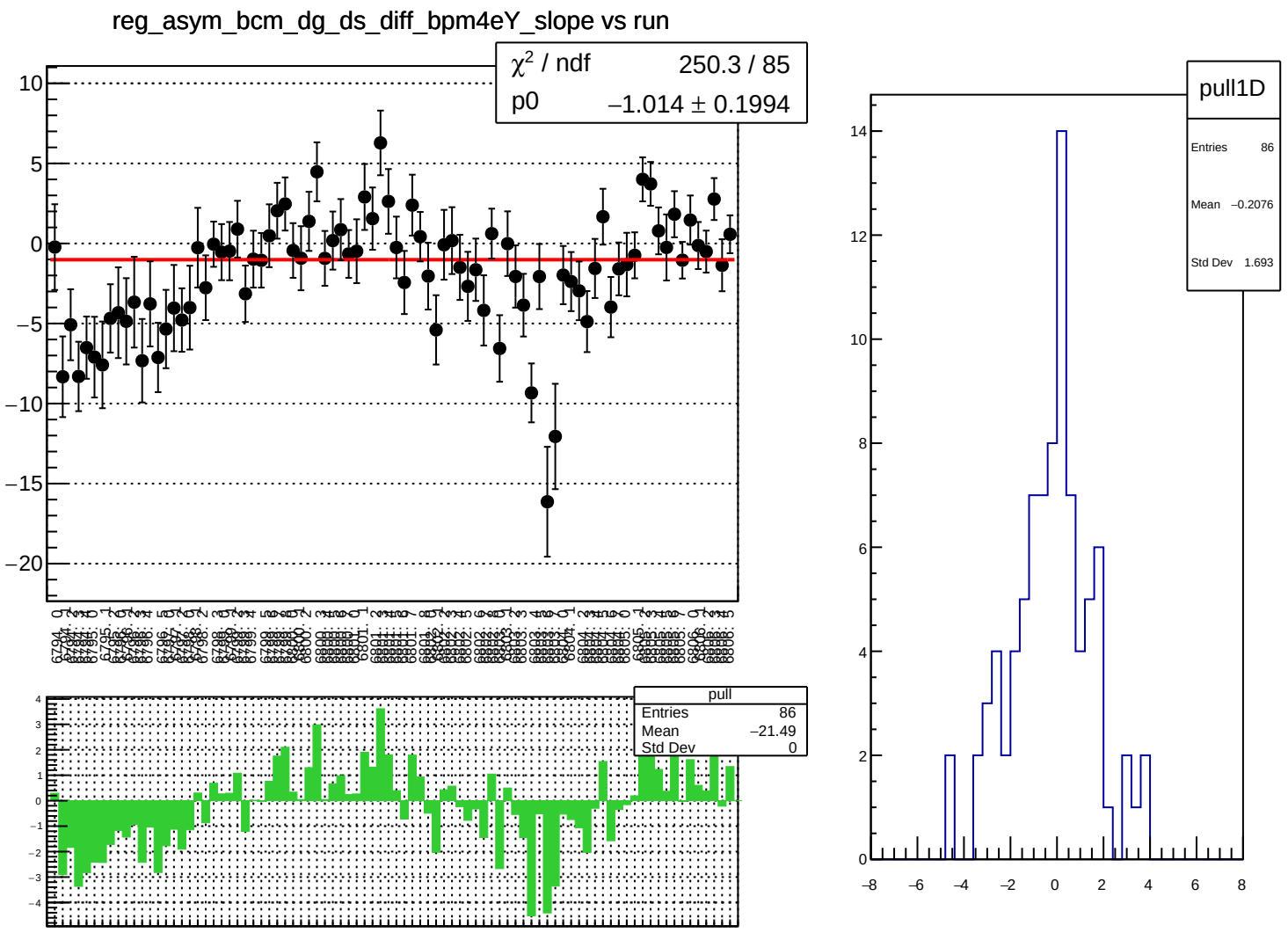

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 278.4 / 85
p0 −4.179 ± 0.2975
pull
Entries 86
Mean −47.94
Std Dev 0

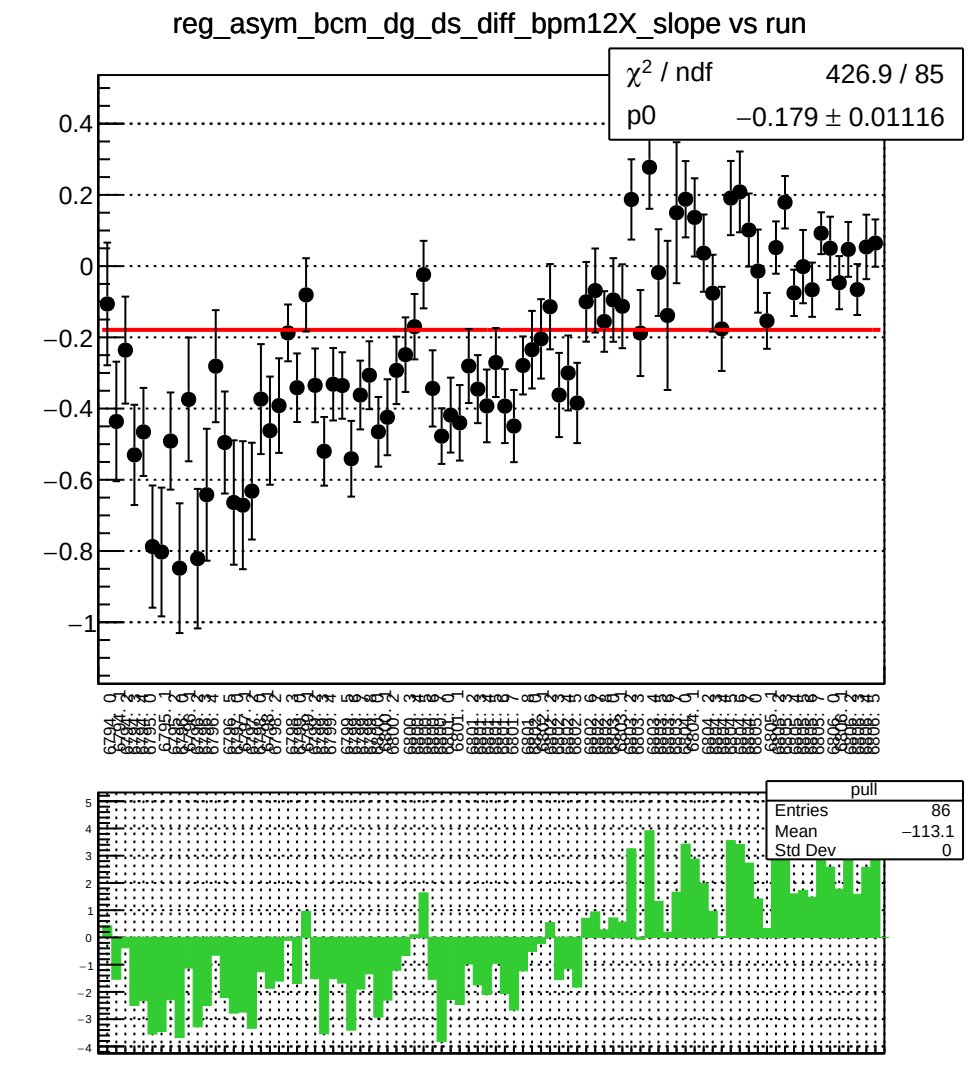

pull1D
Entries 86
Mean −0.2987
Std Dev 1.774

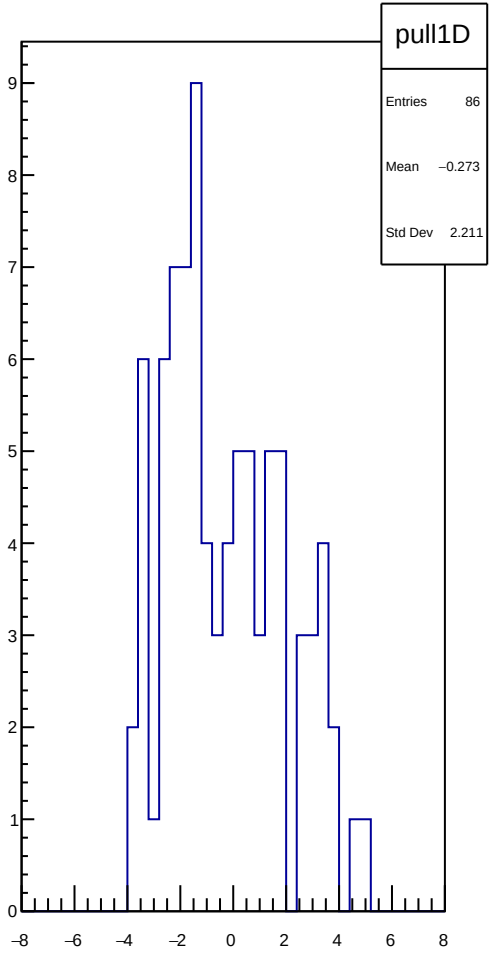

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 212 / 85
p0 0.4804 ± 0.1444
pull
Entries 86
Mean −22.92
Std Dev 0
pull1D
Entries 86
Mean 0.1597
Std Dev 1.562

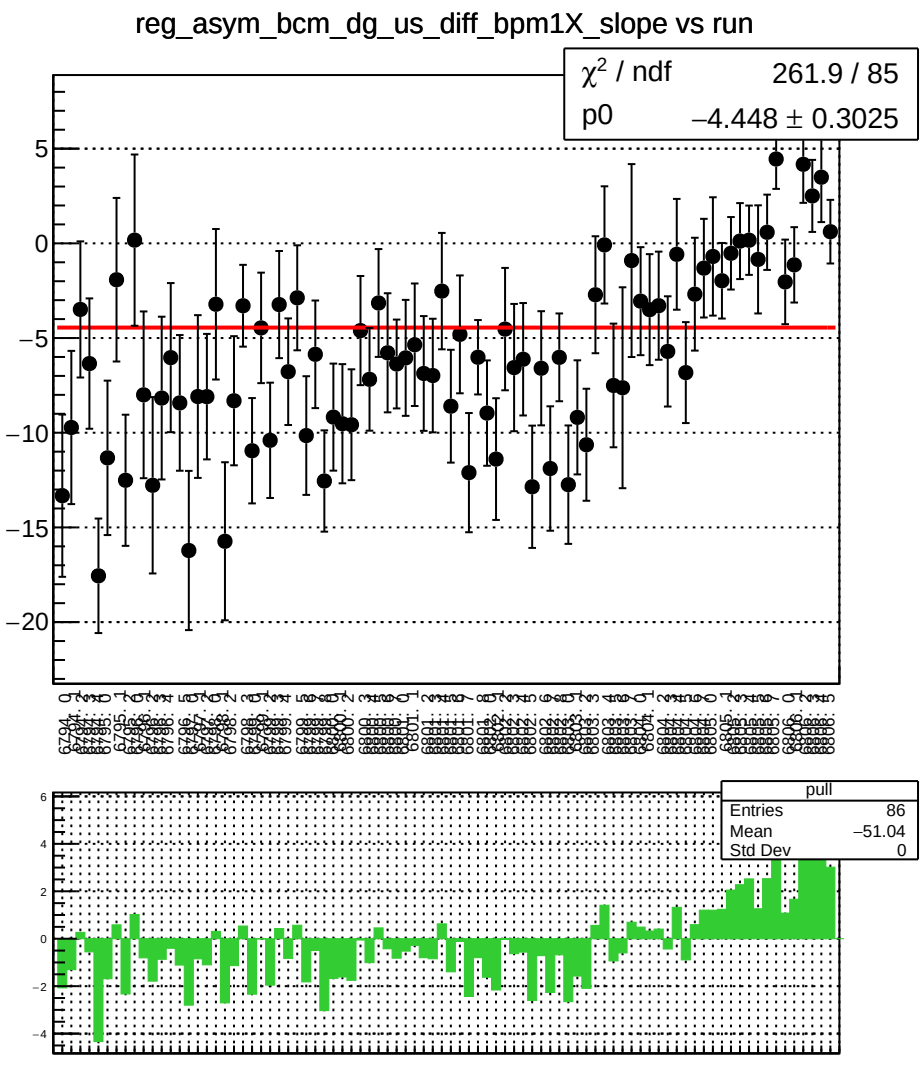

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 290.5 / 85
p0 3.731 ± 0.2785
pull
Entries 86
Mean −48.41
Std Dev 0

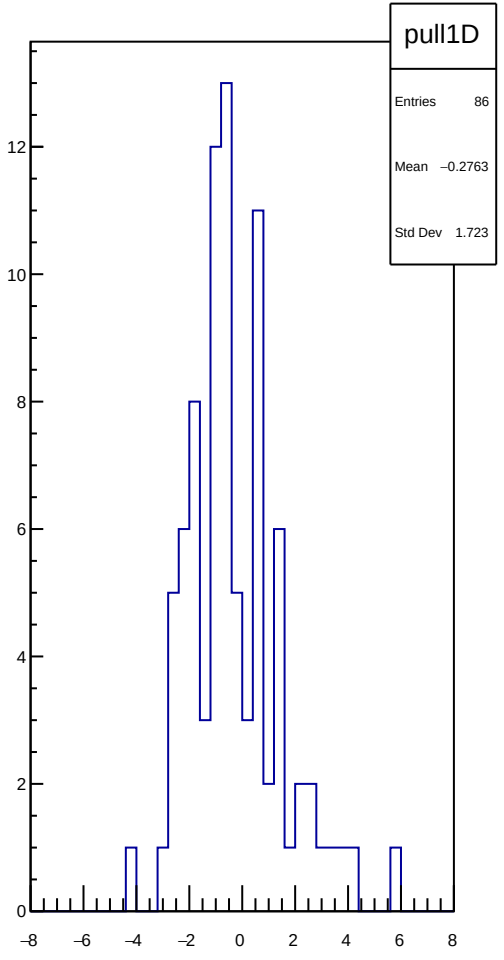

pull1D
Entries 86
Mean 0.3191
Std Dev 1.81

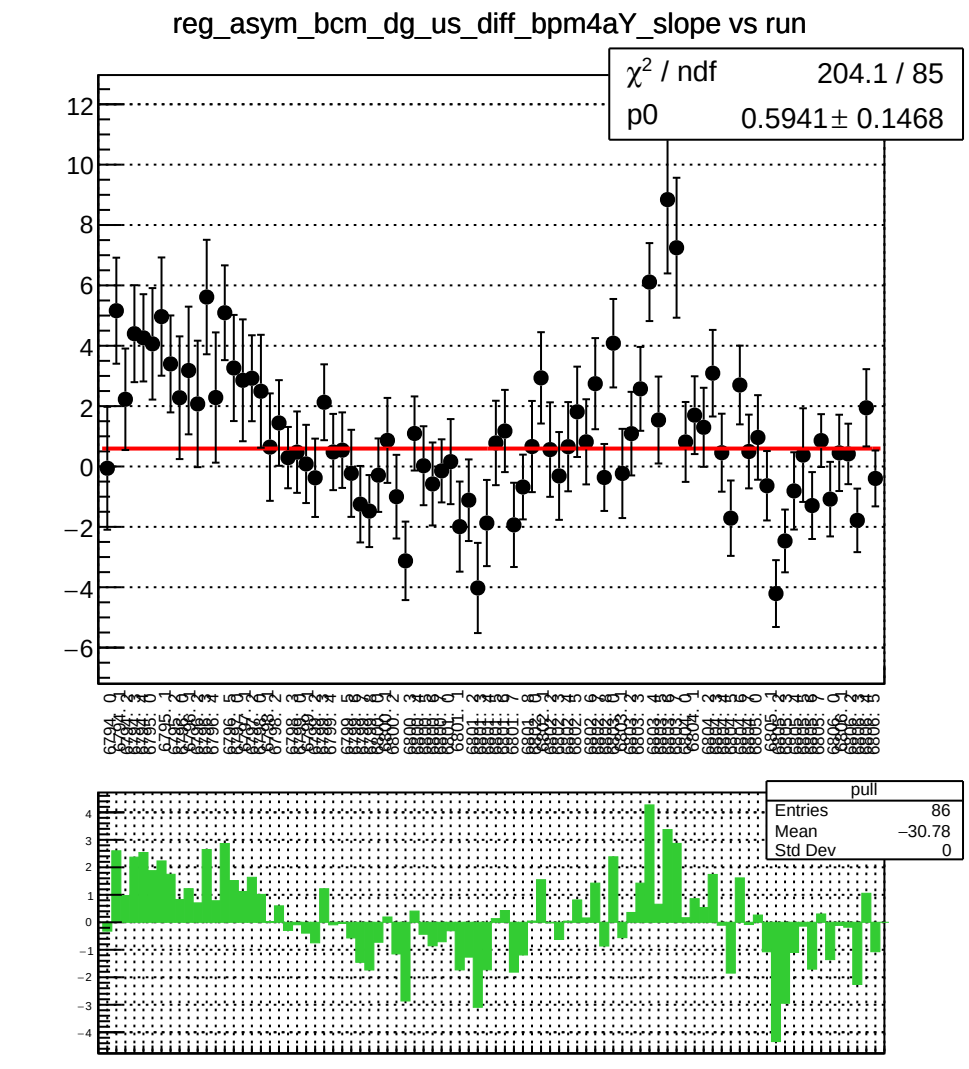

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 250.3 / 85
p0 −1.014 ± 0.1994
pull
Entries 86
Mean −21.49
Std Dev 0
pull1D
Entries 86
Mean −0.2076
Std Dev 1.693

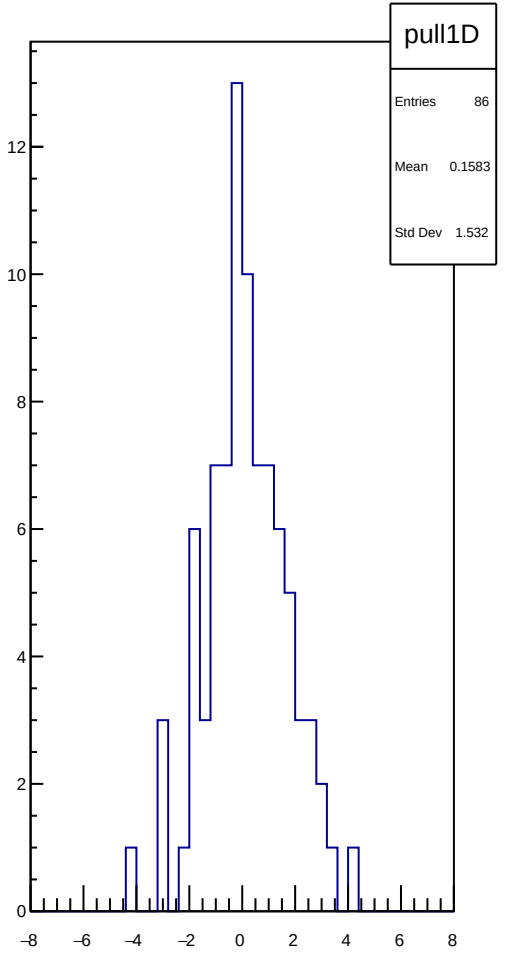

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 426.9 / 85
p0 −0.179 ± 0.01116
pull
Entries 86
Mean −113.1
Std Dev 0

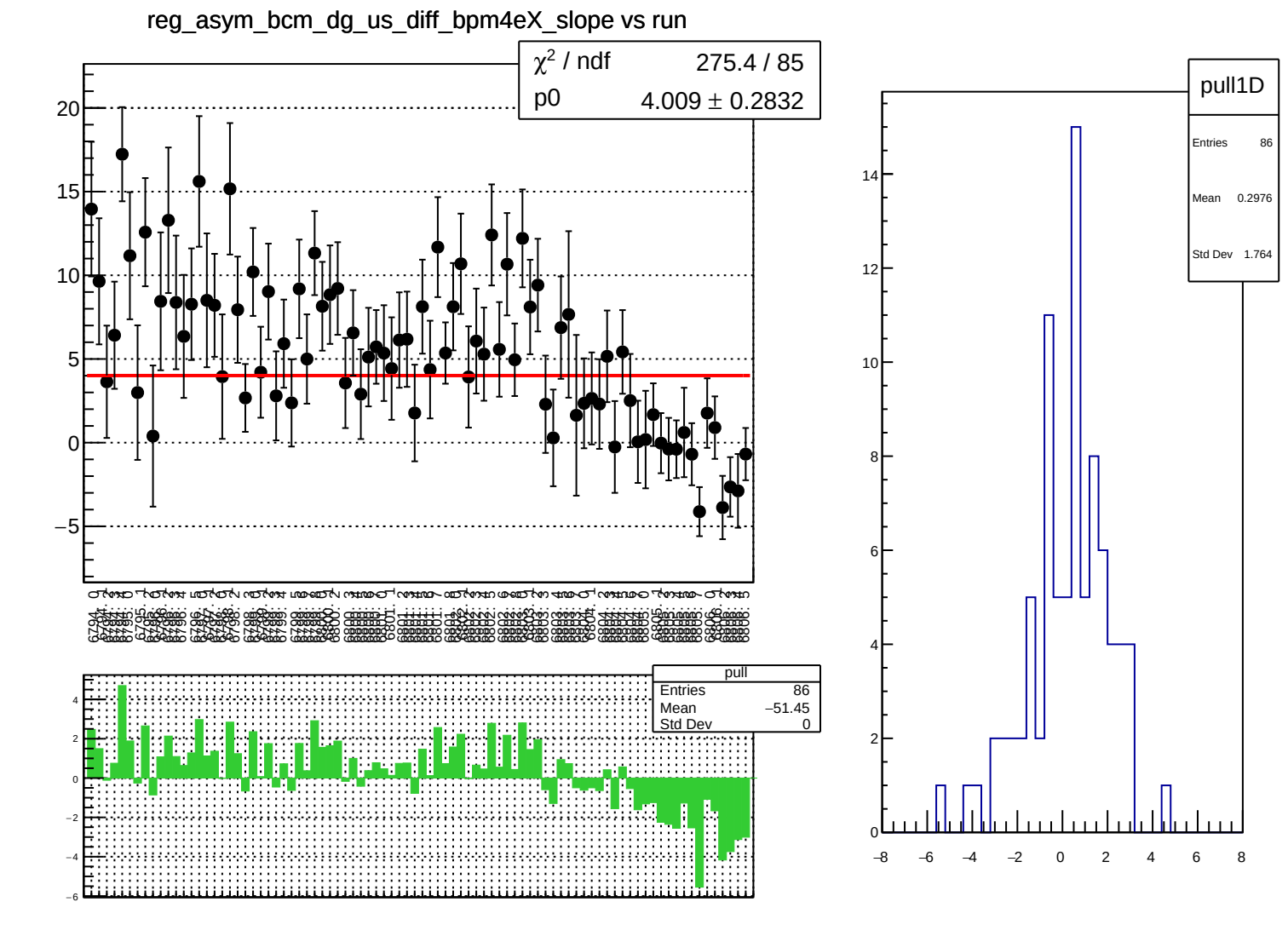

pull1D
Entries 86
Mean −0.273
Std Dev 2.211

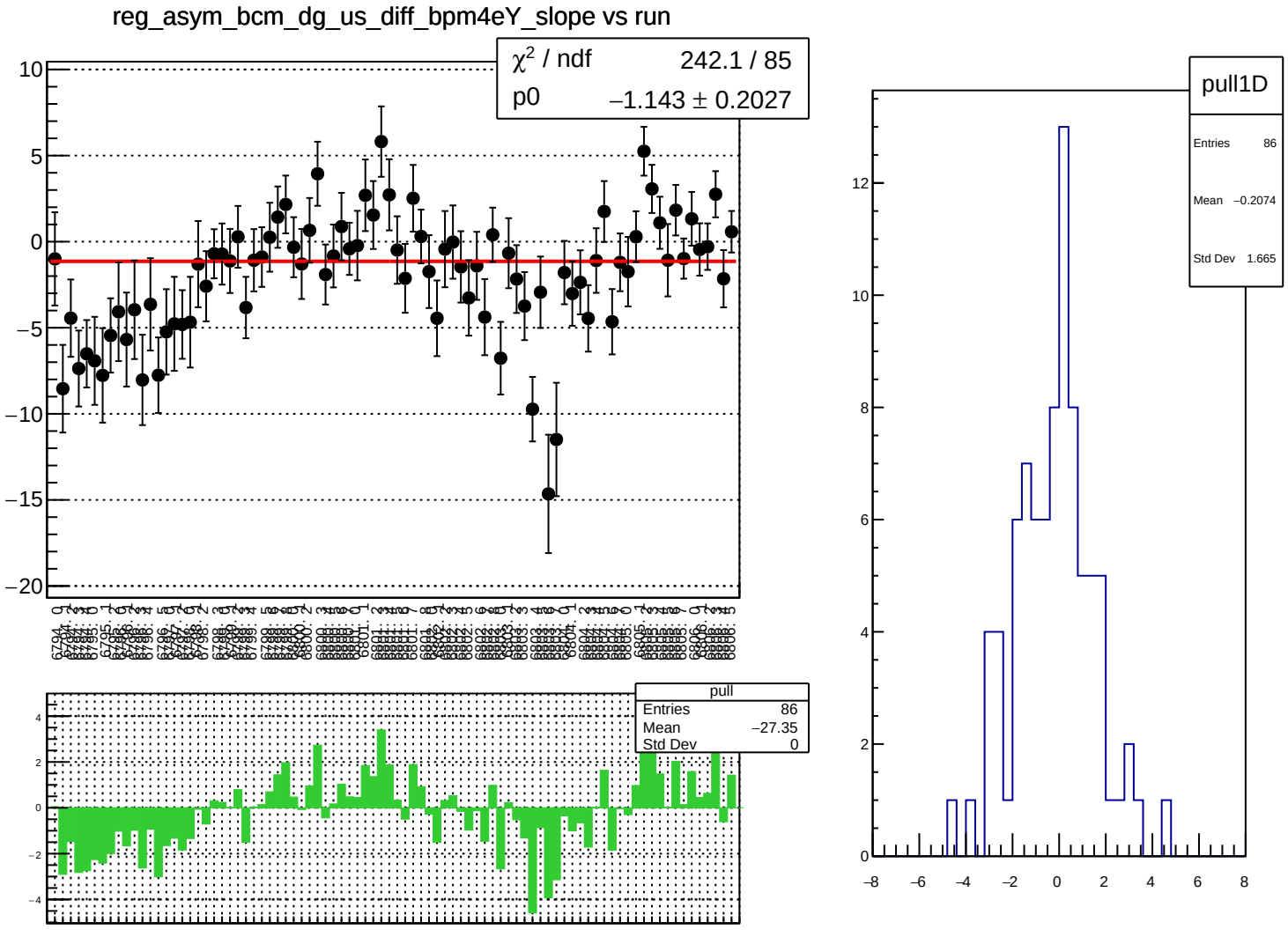

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 261.9 / 85
p0 −4.448 ± 0.3025
pull
Entries 86
Mean −51.04
Std Dev 0

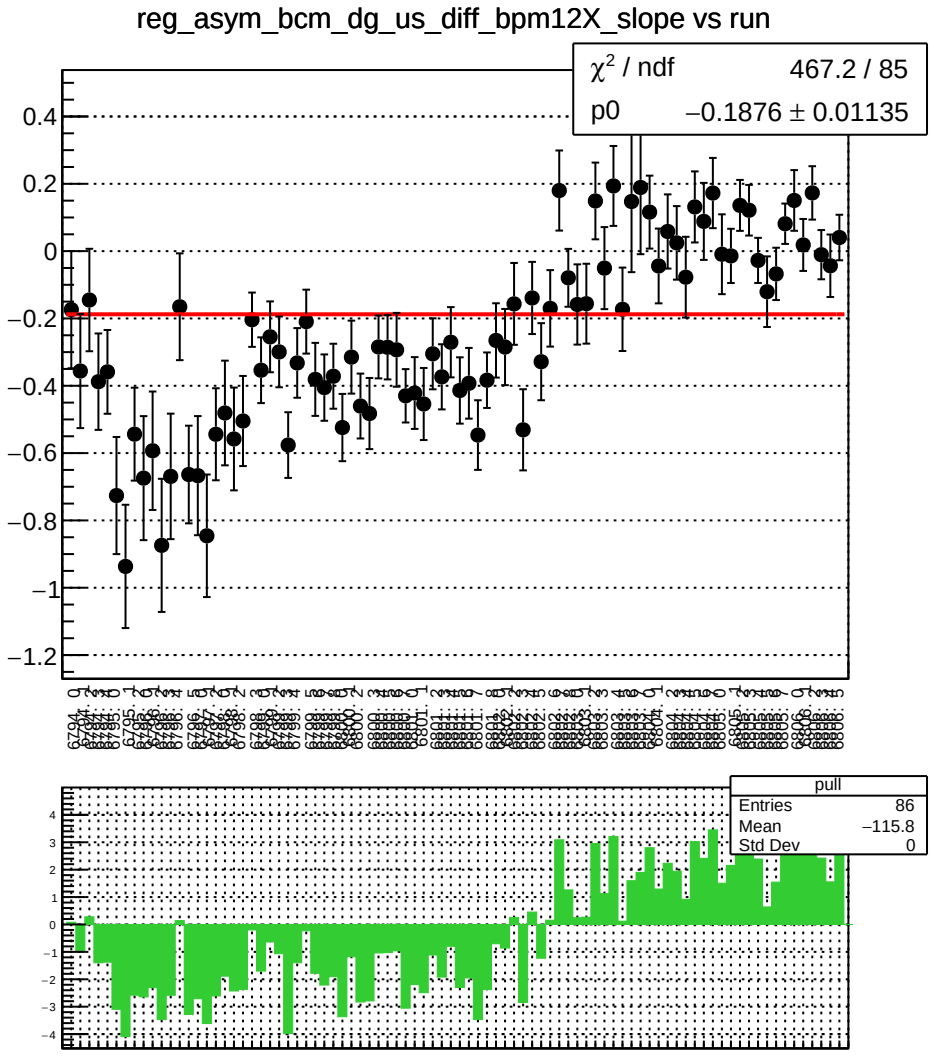

pull1D
Entries 86
Mean −0.2763
Std Dev 1.723

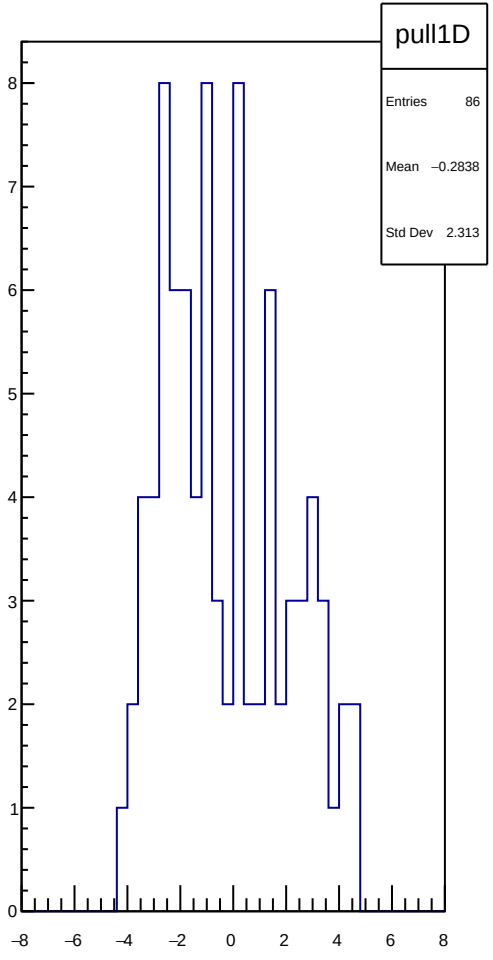

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 204.1 / 85
p0 0.5941 ± 0.1468
pull
Entries 86
Mean −30.78
Std Dev 0

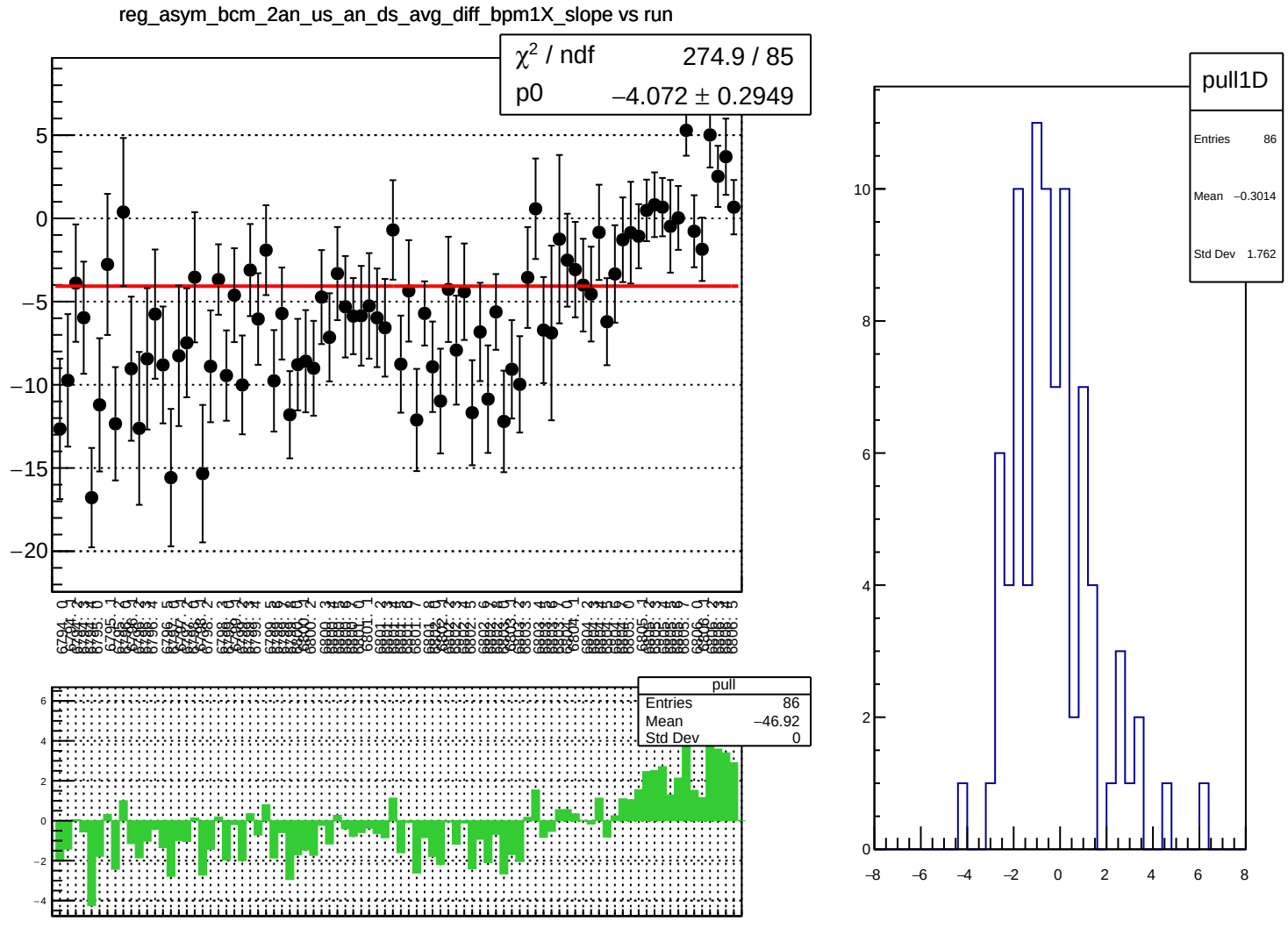

pull1D
Entries 86
Mean 0.1583
Std Dev 1.532

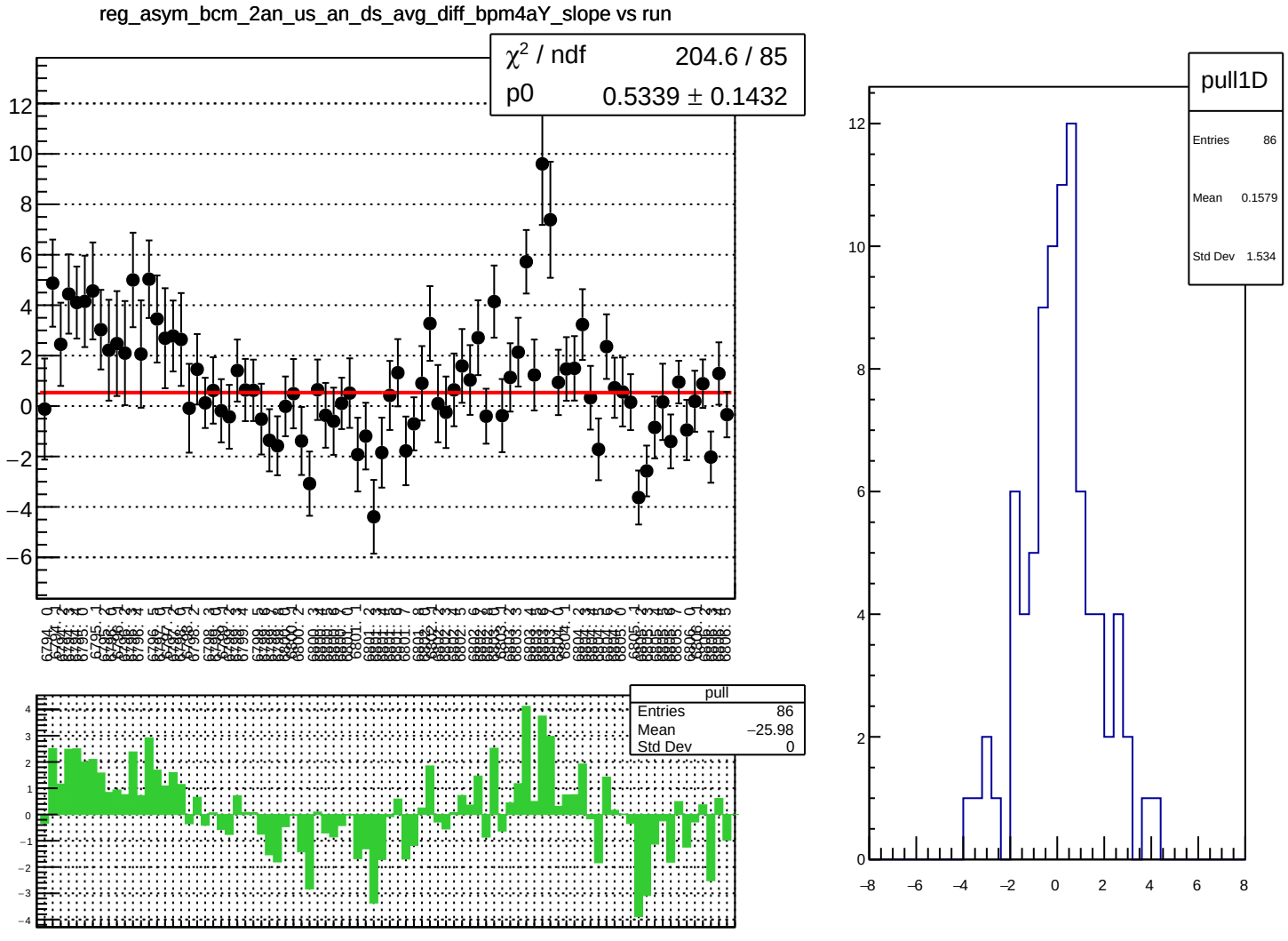

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 275.4 / 85
p0 4.009 ± 0.2832
pull
Entries 86
Mean −51.45
Std Dev 0
pull1D
Entries 86
Mean 0.2976
Std Dev 1.764

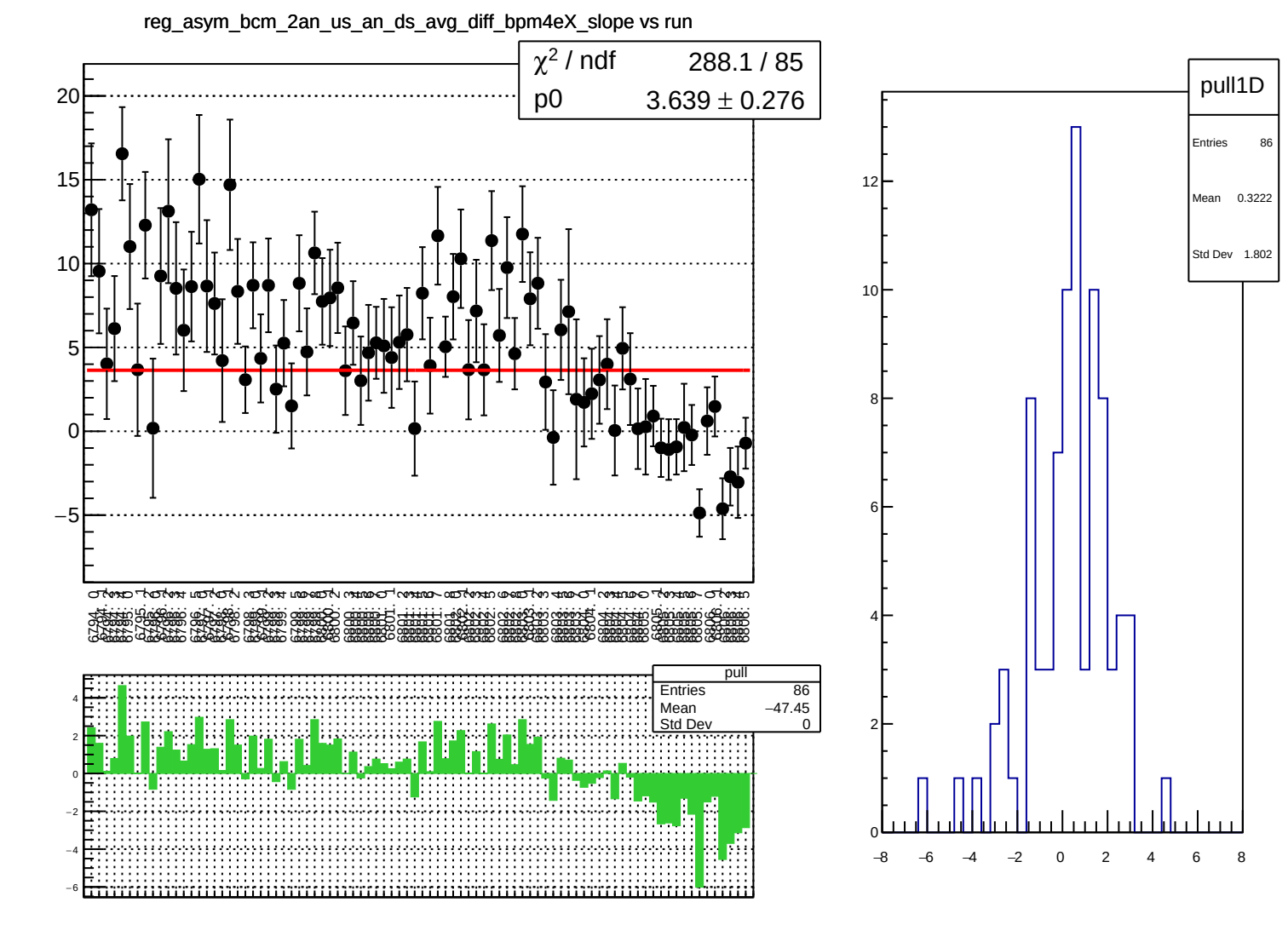

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 242.1 / 85
p0 −1.143 ± 0.2027
pull
Entries 86
Mean −27.35
Std Dev 0
pull1D
Entries 86
Mean −0.2074
Std Dev 1.665

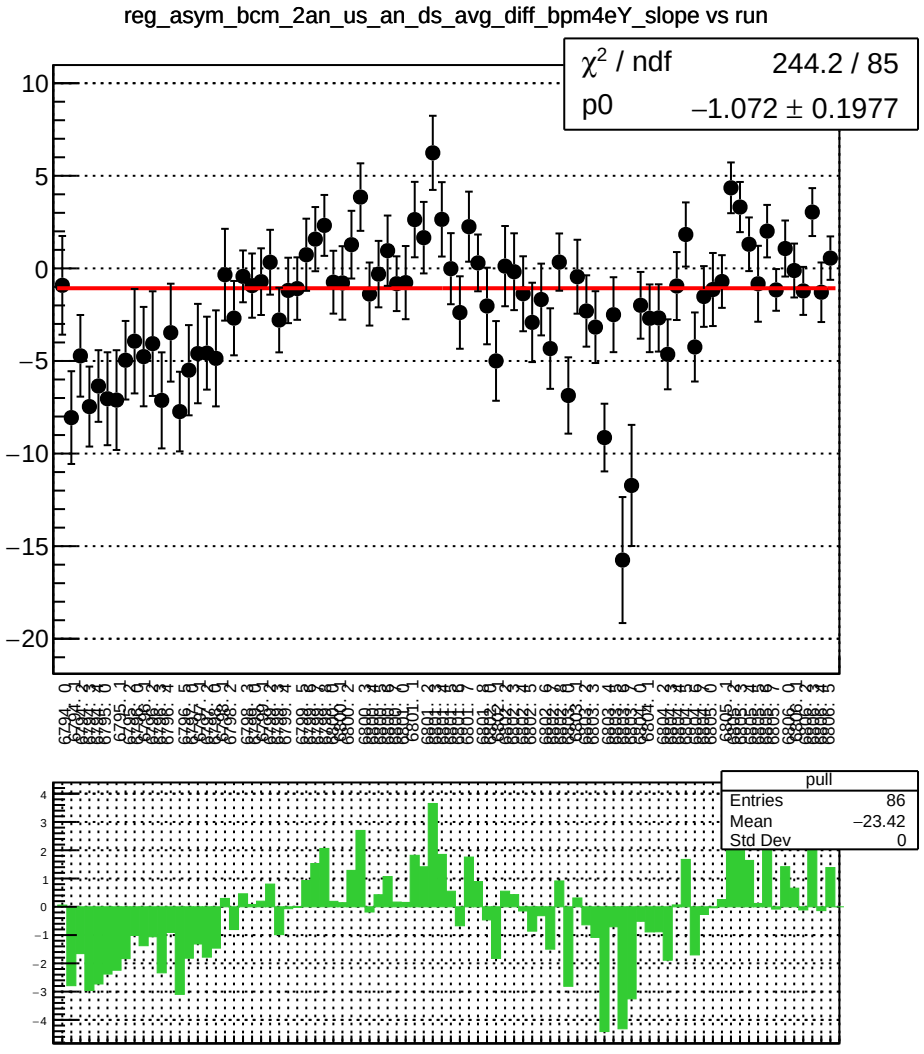

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 467.2 / 85
p0 −0.1876 ± 0.01135
pull
Entries 86
Mean −115.8
Std Dev 0

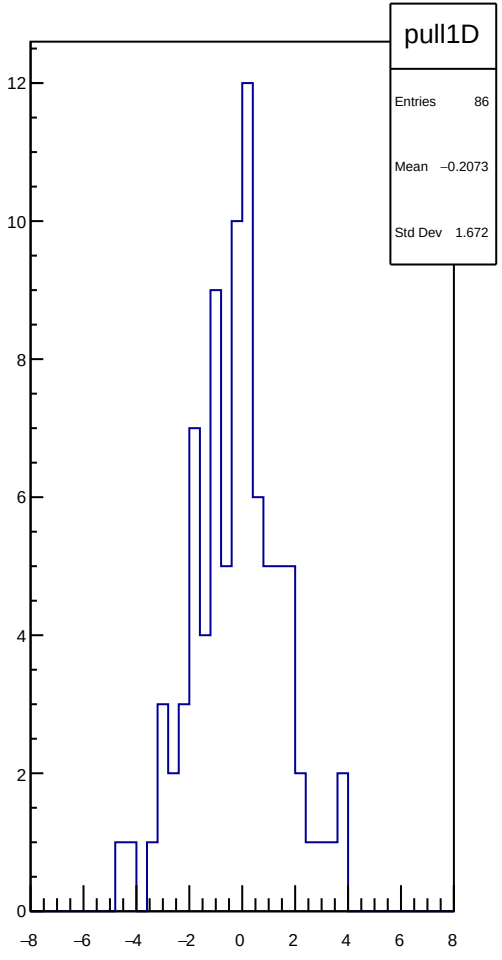

pull1D
Entries 86
Mean −0.2838
Std Dev 2.313

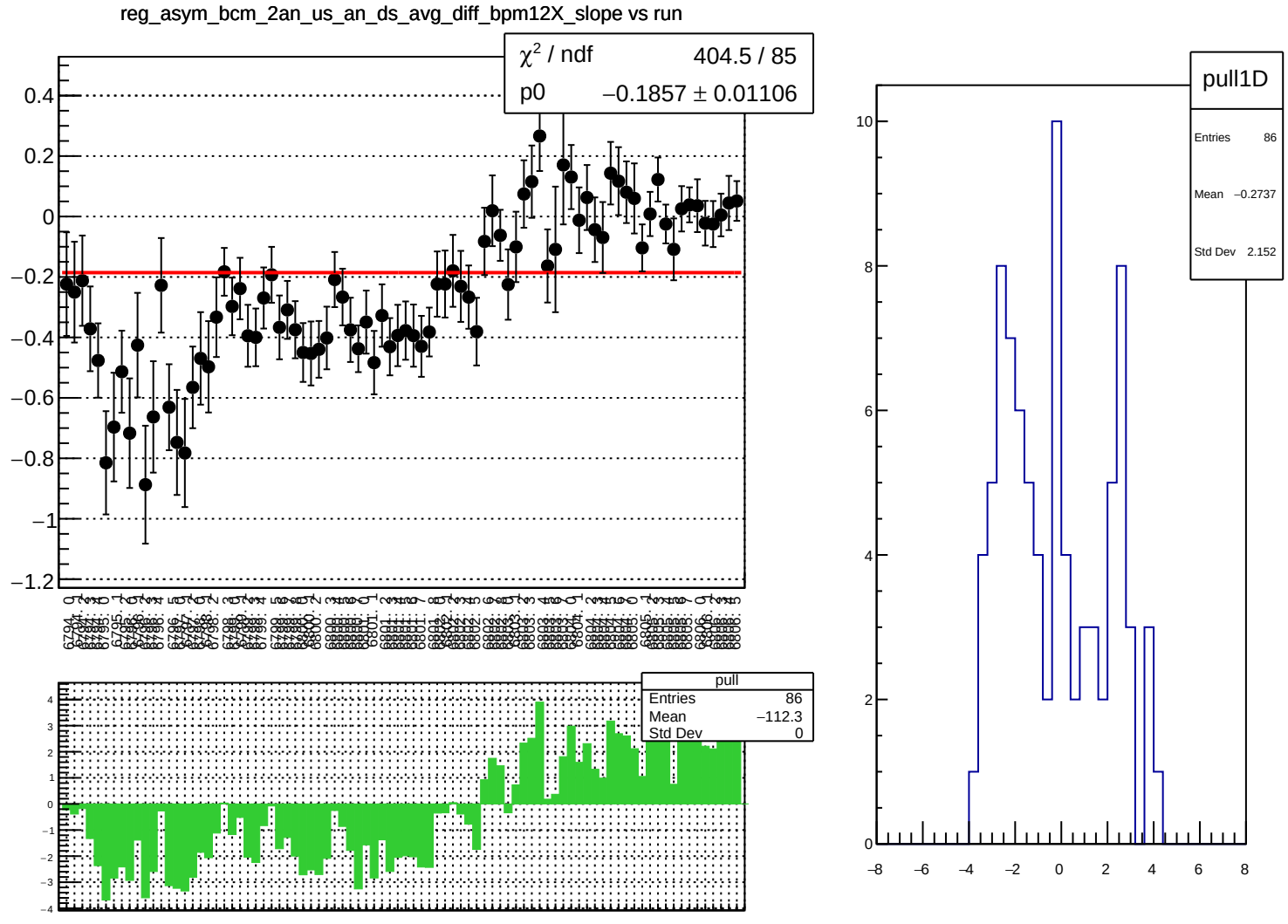

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 274.9 / 85
p0 −4.072 ± 0.2949
pull
Entries 86
Mean −46.92
Std Dev 0
pull1D
Entries 86
Mean −0.3014
Std Dev 1.762

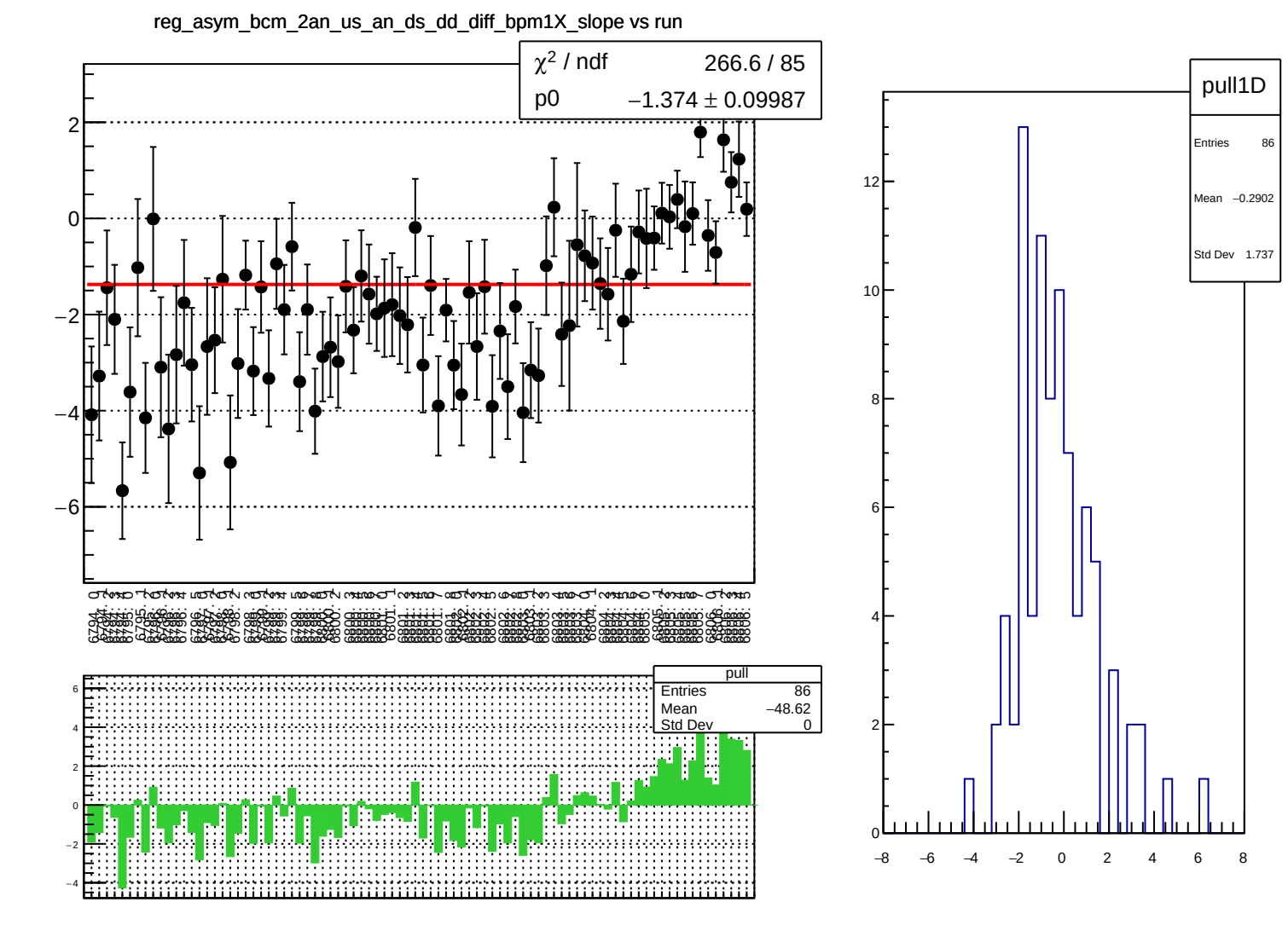

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 204.6 / 85
p0 0.5339 ± 0.1432
pull
Entries 86
Mean −25.98
Std Dev 0
pull1D
Entries 86
Mean 0.1579
Std Dev 1.534

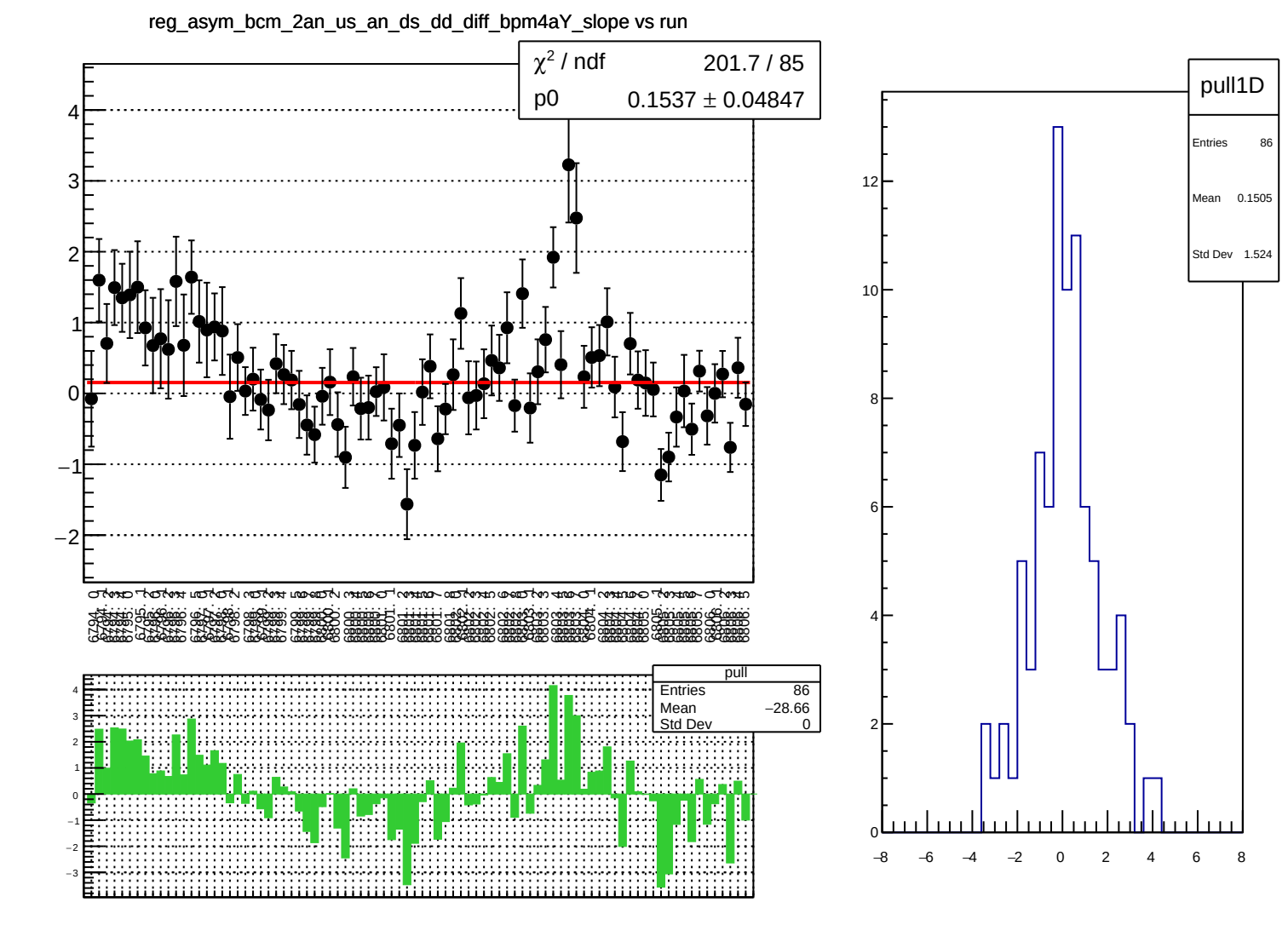

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 288.1 / 85
p0 3.639 ± 0.276
pull
Entries 86
Mean −47.45
Std Dev 0
pull1D
Entries 86
Mean 0.3222
Std Dev 1.802

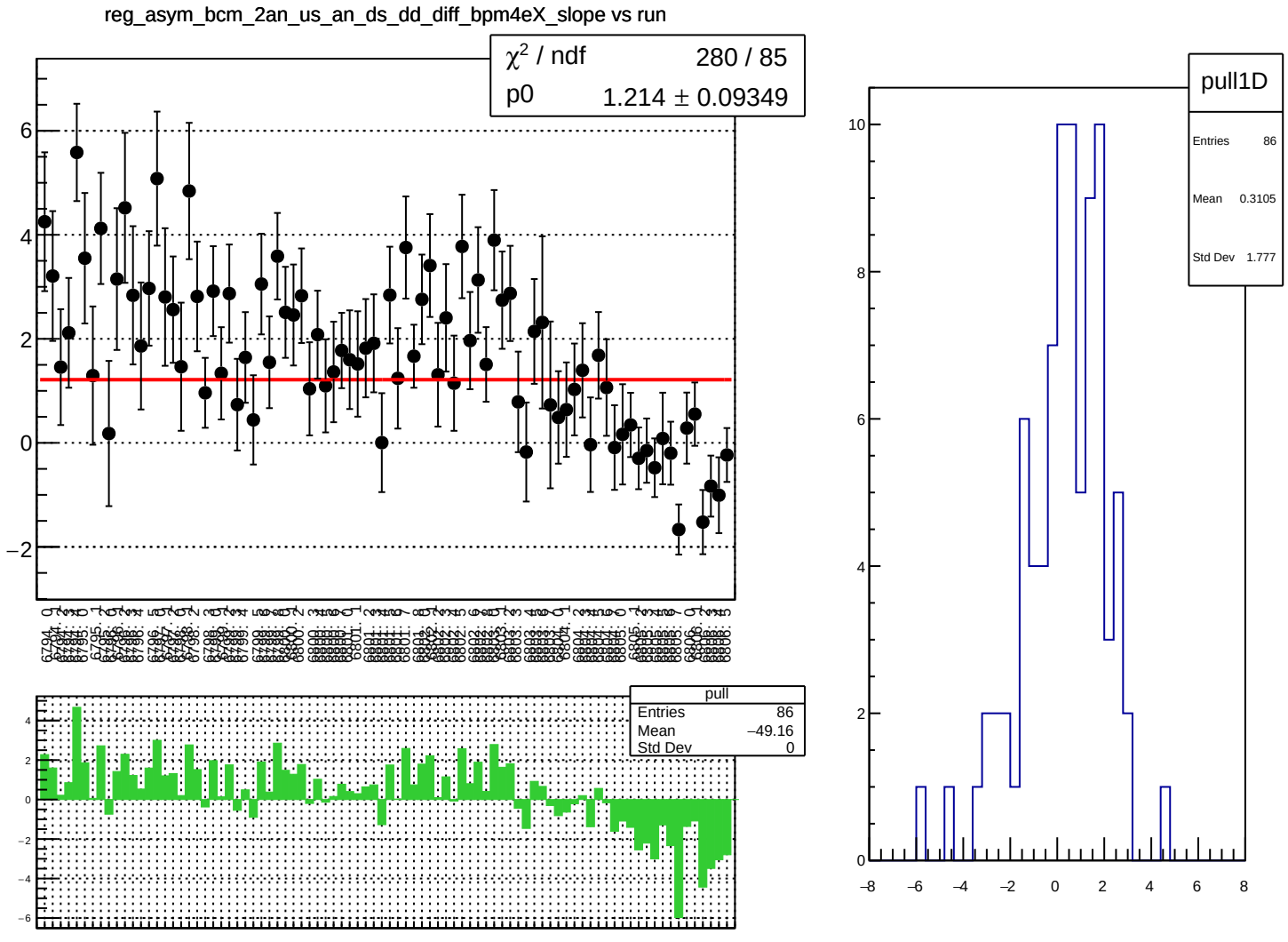

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 244.2 / 85
p0 −1.072 ± 0.1977
pull
Entries 86
Mean −23.42
Std Dev 0

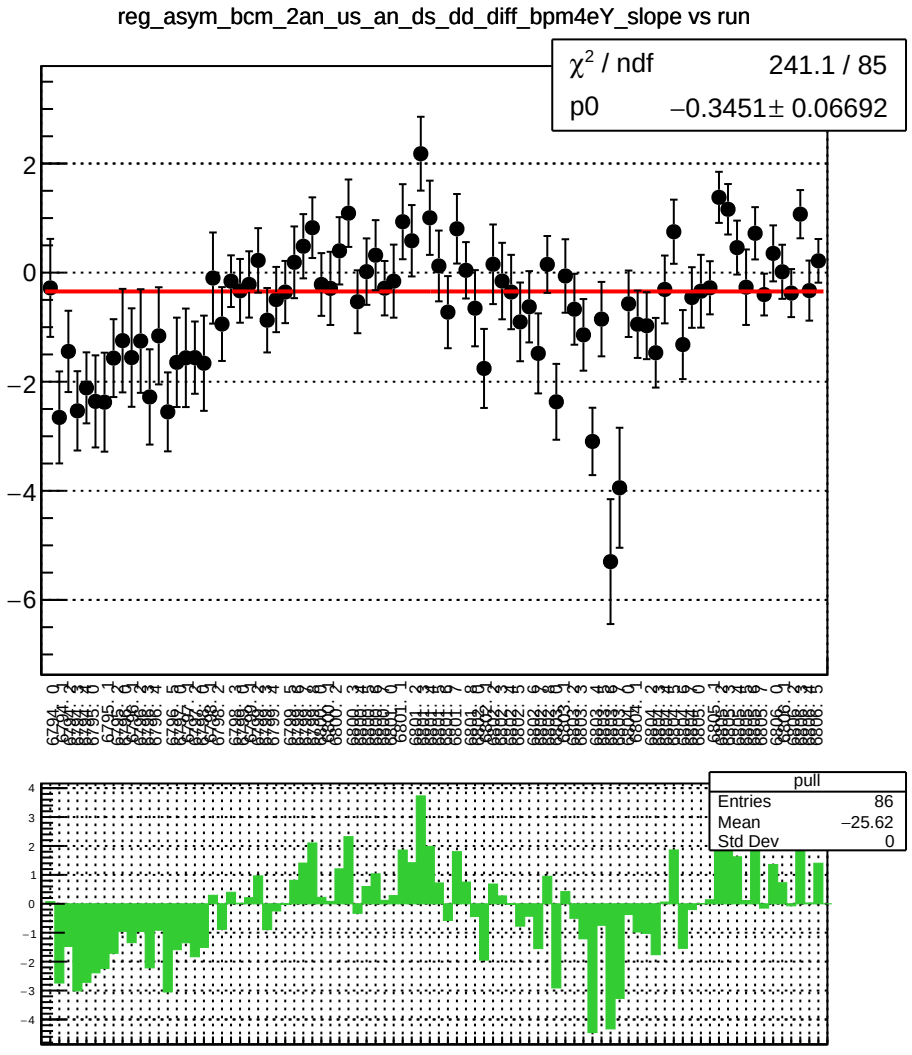

pull1D
Entries 86
Mean −0.2073
Std Dev 1.672

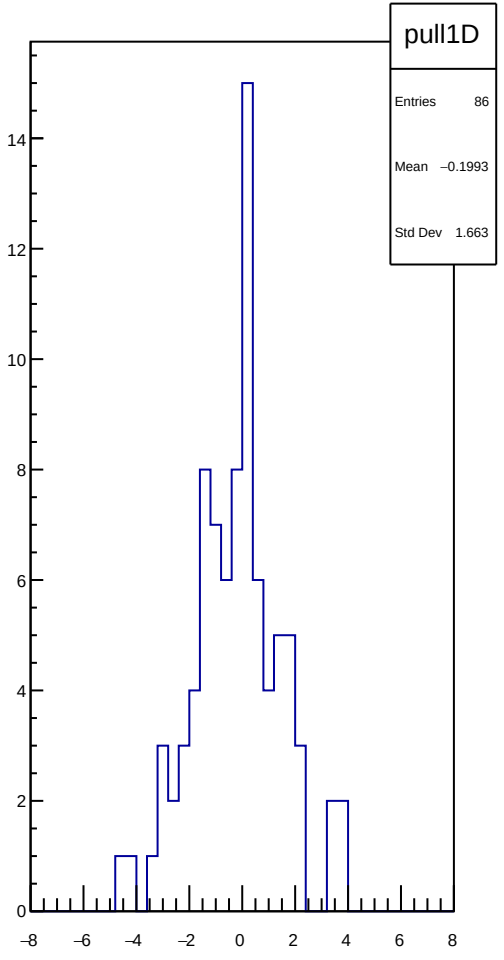

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 404.5 / 85
p0 −0.1857 ± 0.01106
pull
Entries 86
Mean −112.3
Std Dev 0
pull1D
Entries 86
Mean −0.2737
Std Dev 2.152

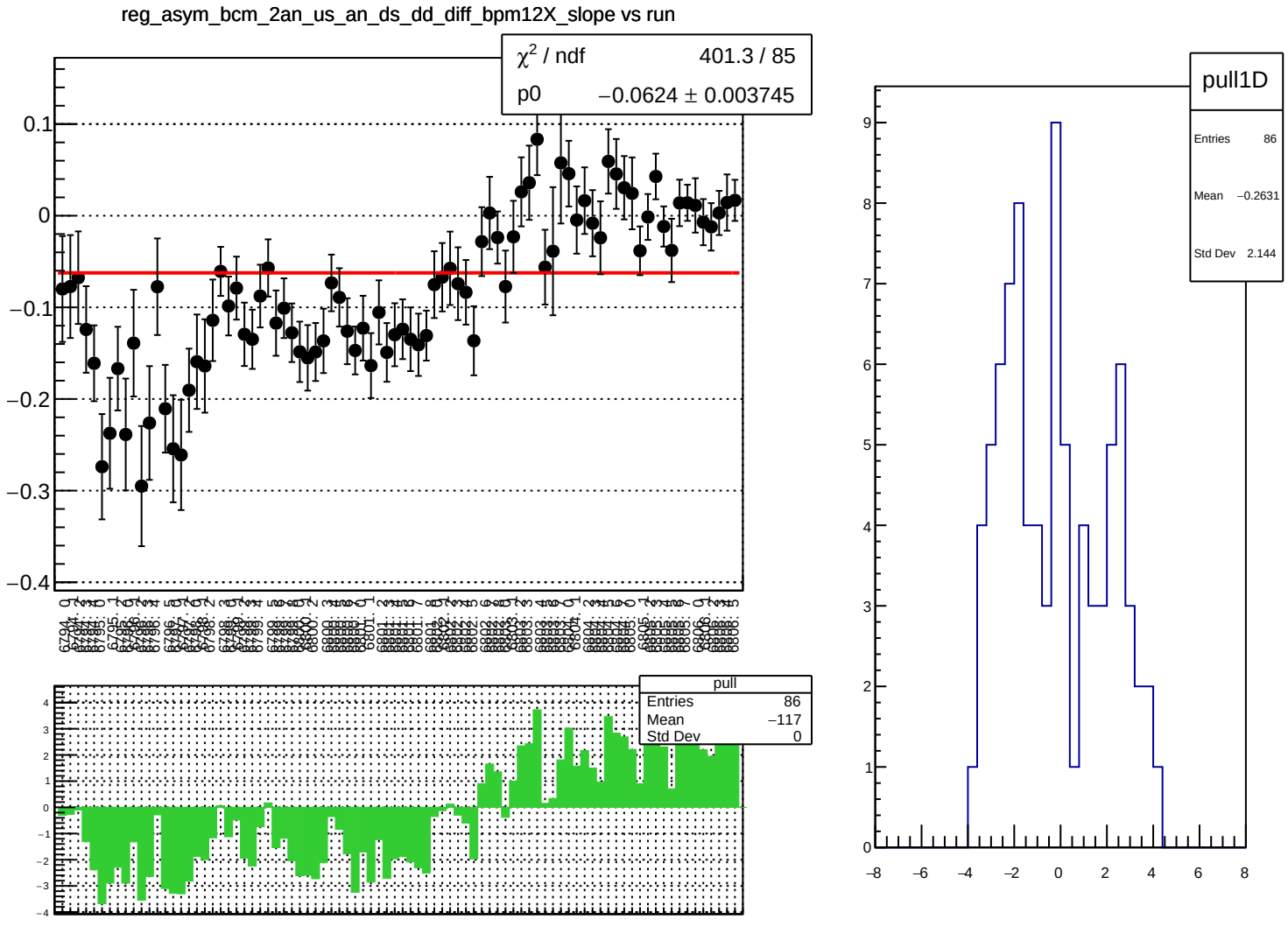

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 266.6 / 85
p0 −1.374 ± 0.09987
pull
Entries 86
Mean −48.62
Std Dev 0
pull1D
Entries 86
Mean −0.2902
Std Dev 1.737

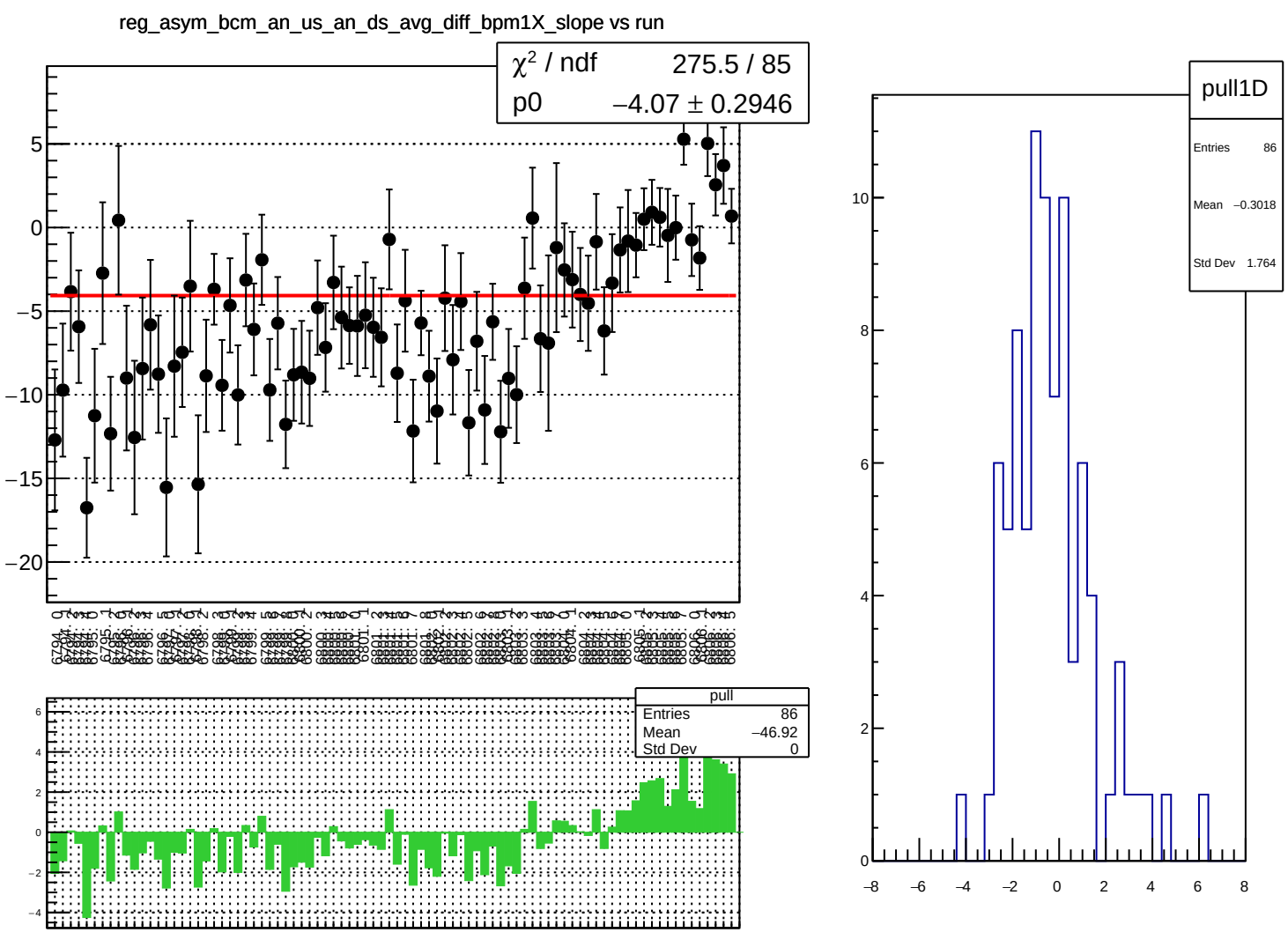

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 201.7 / 85
p0 0.1537 ± 0.04847
pull
Entries 86
Mean −28.66
Std Dev 0
pull1D
Entries 86
Mean 0.1505
Std Dev 1.524

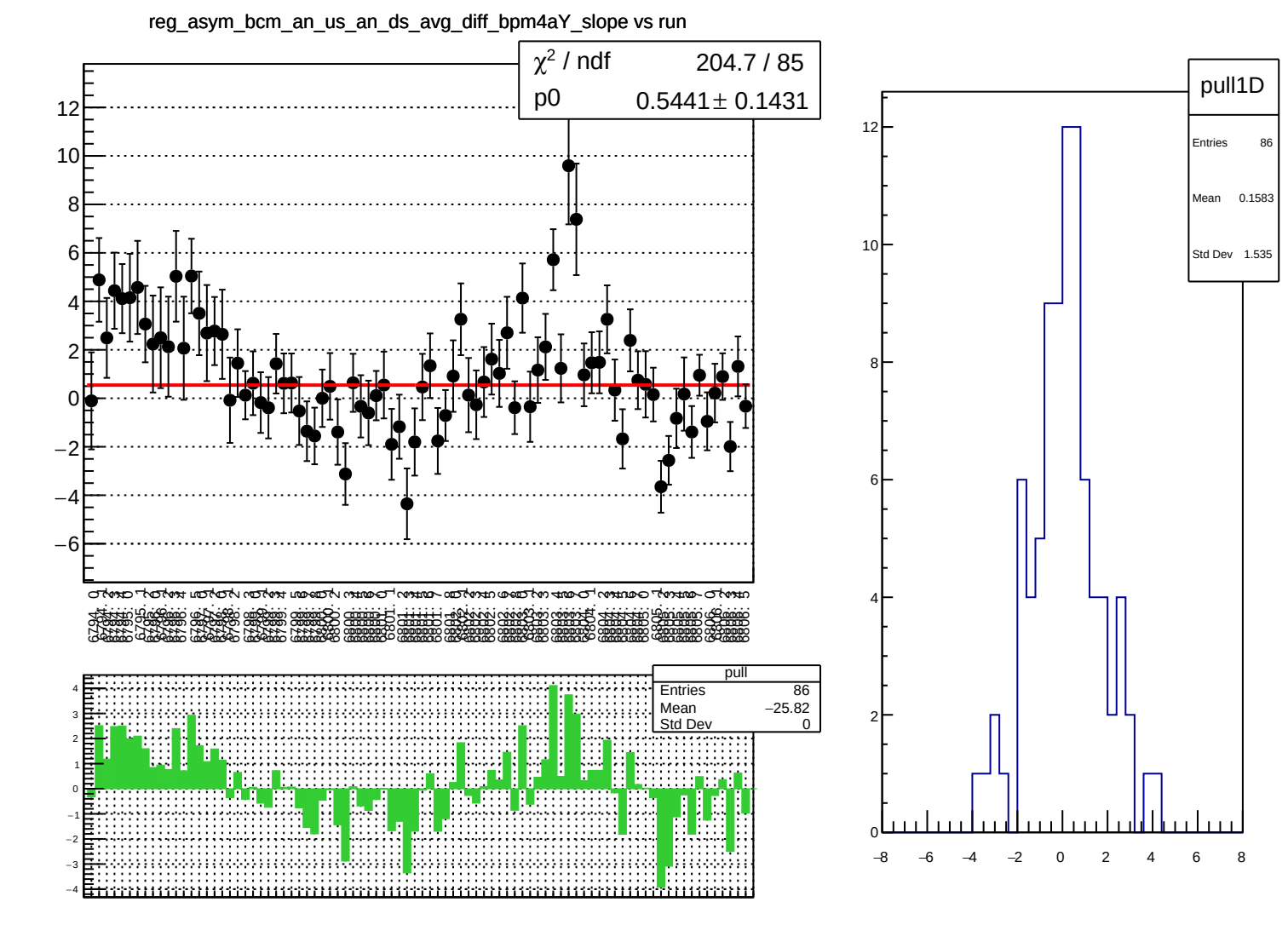

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 280 / 85
p0 1.214 ± 0.09349
pull
Entries 86
Mean −49.16
Std Dev 0
pull1D
Entries 86
Mean 0.3105
Std Dev 1.777

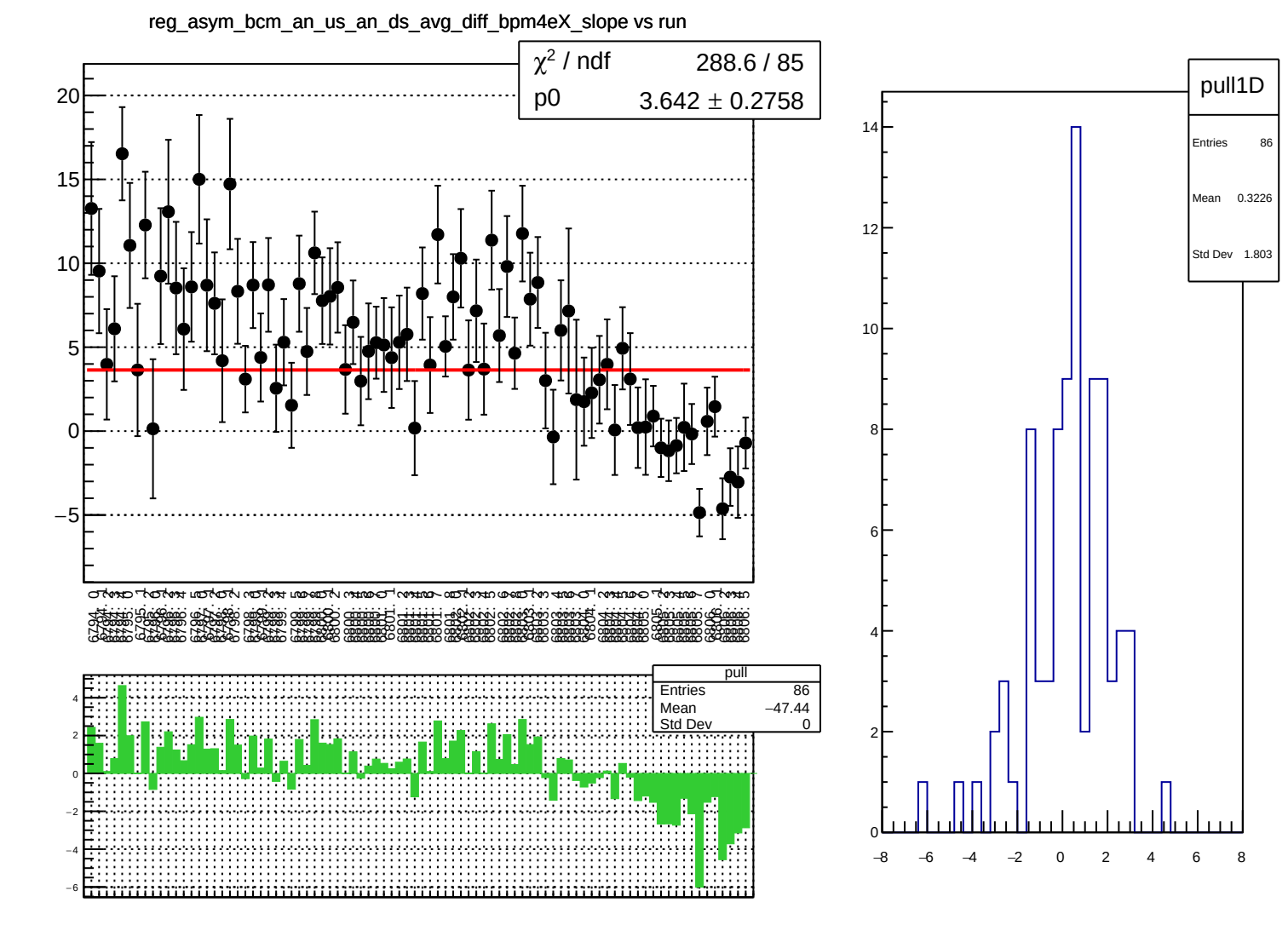

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 241.1 / 85
p0 −0.3451± 0.06692
pull
Entries 86
Mean −25.62
Std Dev 0

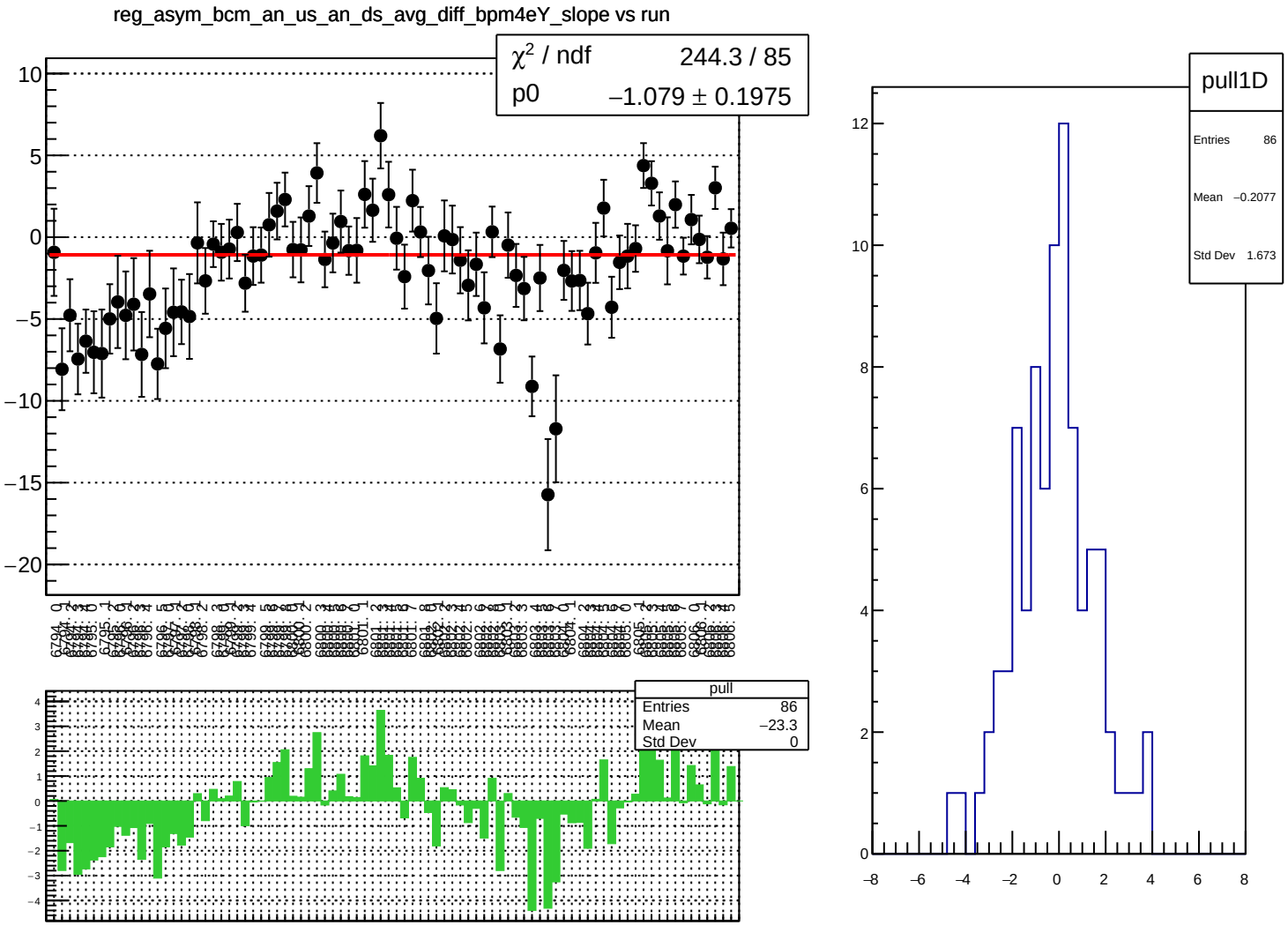

pull1D
Entries 86
Mean −0.1993
Std Dev 1.663

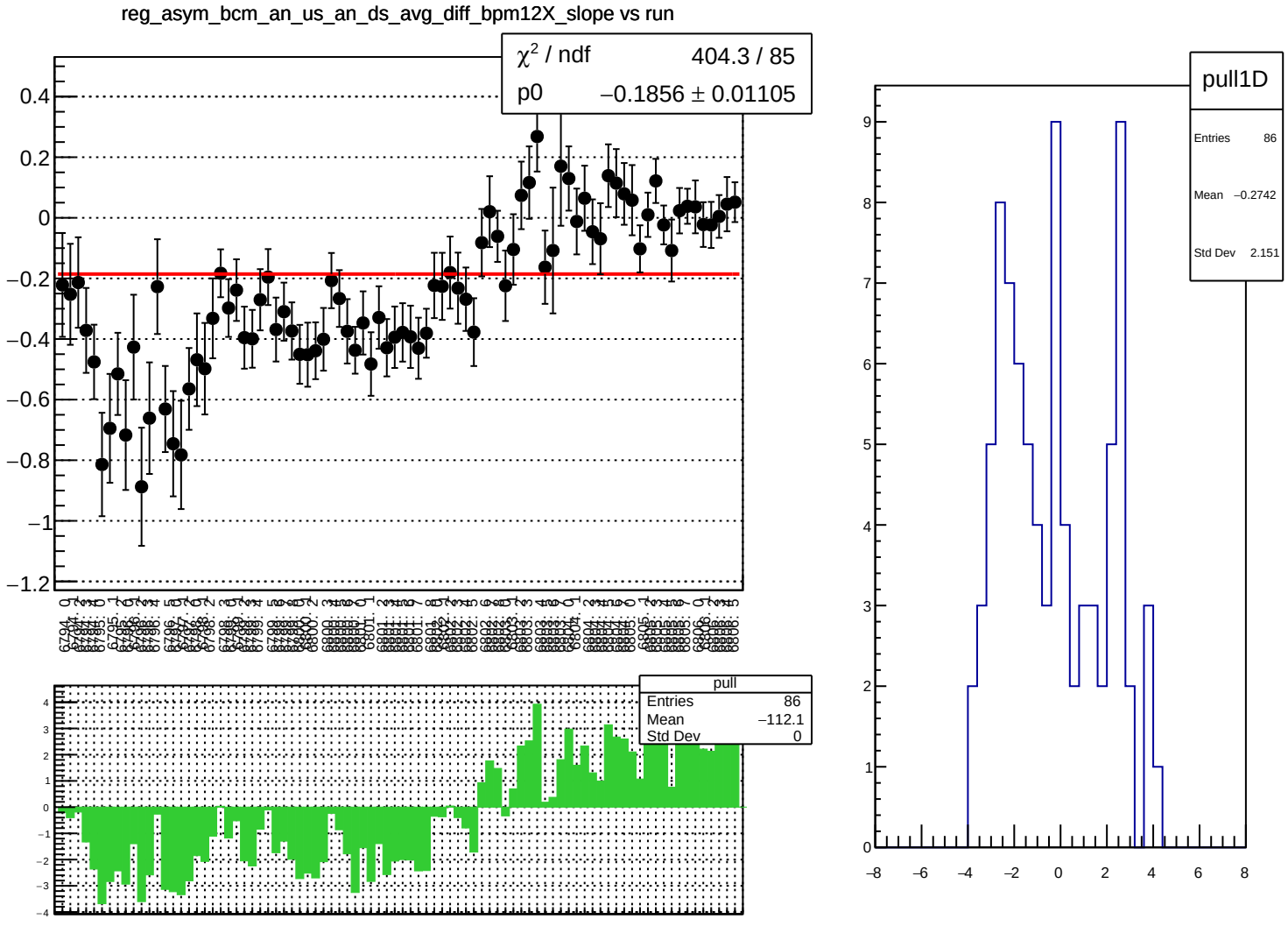

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 401.3 / 85
p0 −0.0624 ± 0.003745
pull
Entries 86
Mean −117
Std Dev 0
pull1D
Entries 86
Mean −0.2631
Std Dev 2.144

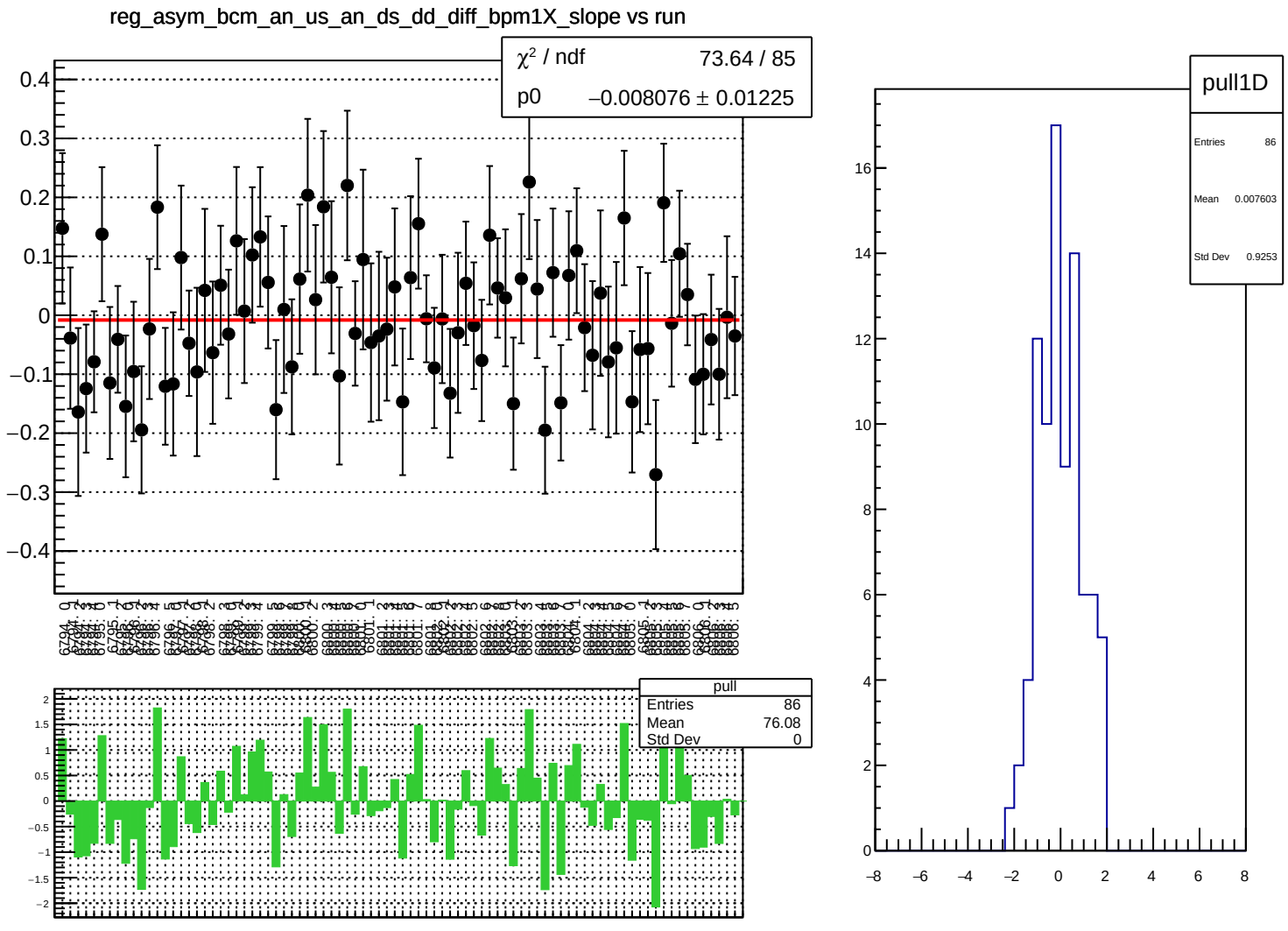

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 275.5 / 85
p0 −4.07 ± 0.2946
pull
Entries 86
Mean −46.92
Std Dev 0
pull1D
Entries 86
Mean −0.3018
Std Dev 1.764

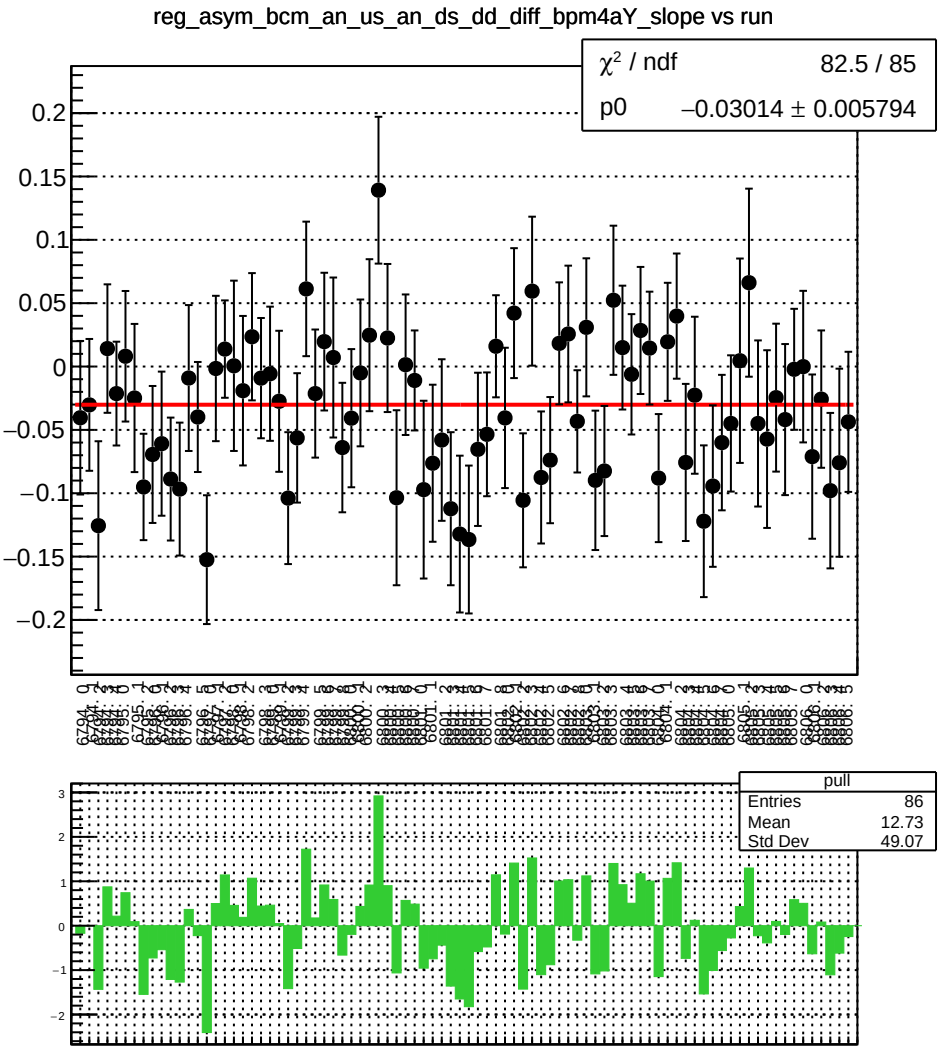

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 204.7 / 85
p0 0.5441 ± 0.1431
pull
Entries 86
Mean −25.82
Std Dev 0
pull1D
Entries 86
Mean 0.1583
Std Dev 1.535

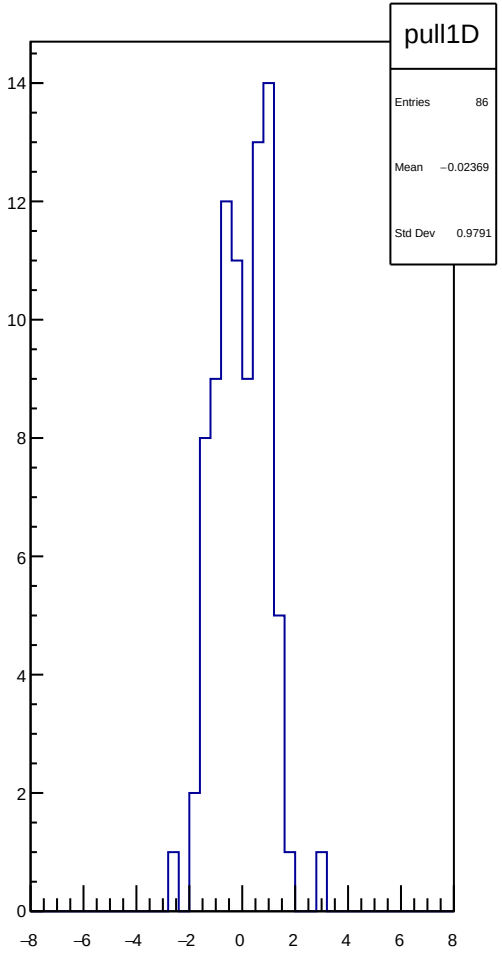

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 288.6 / 85
p0 3.642 ± 0.2758
pull
Entries 86
Mean −47.44
Std Dev 0
pull1D
Entries 86
Mean 0.3226
Std Dev 1.803

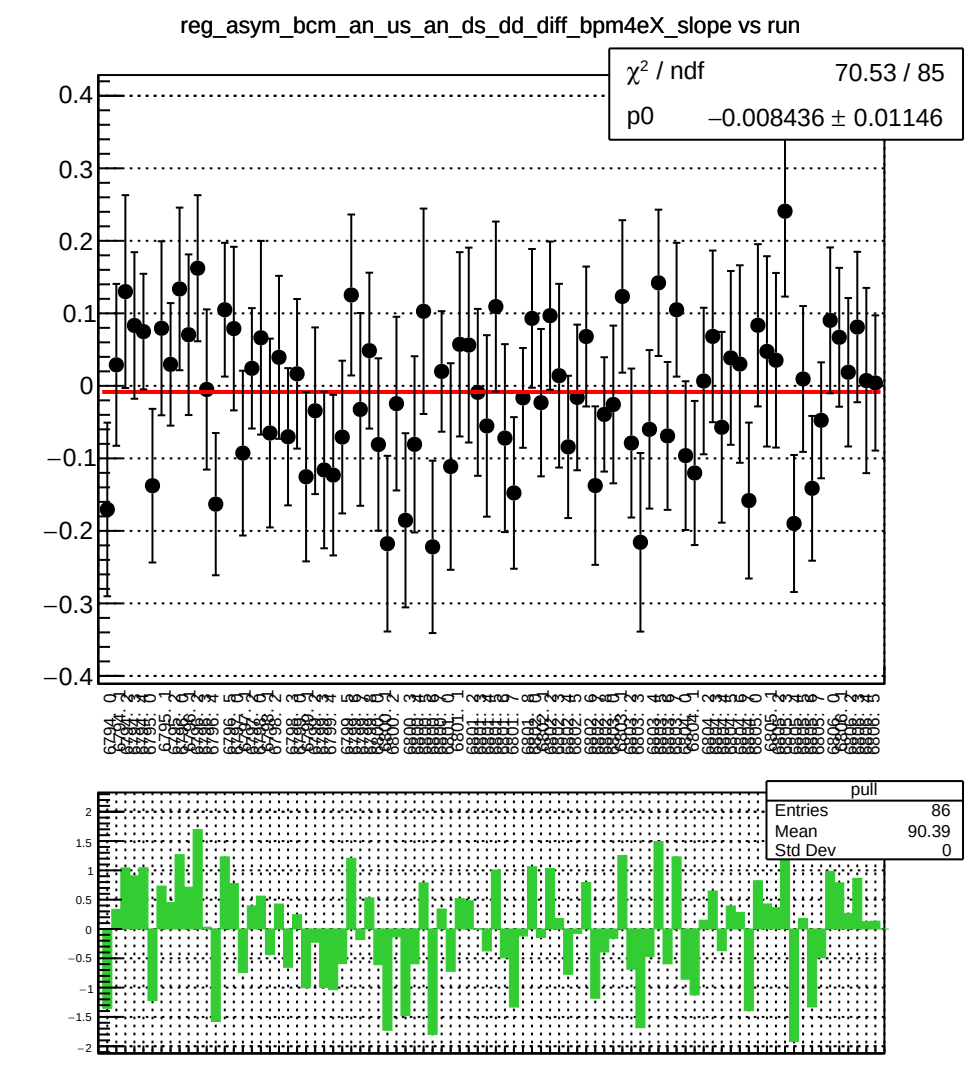

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 244.3 / 85
p0 −1.079 ± 0.1975
pull
Entries 86
Mean −23.3
Std Dev 0
pull1D
Entries 86
Mean −0.2077
Std Dev 1.673

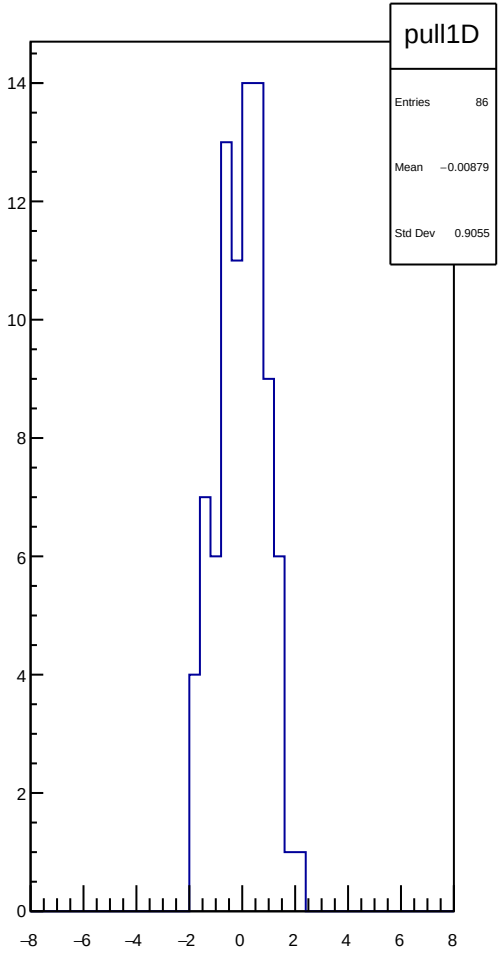

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 404.3 / 85
p0 −0.1856 ± 0.01105
pull
Entries 86
Mean −112.1
Std Dev 0
pull1D
Entries 86
Mean −0.2742
Std Dev 2.151

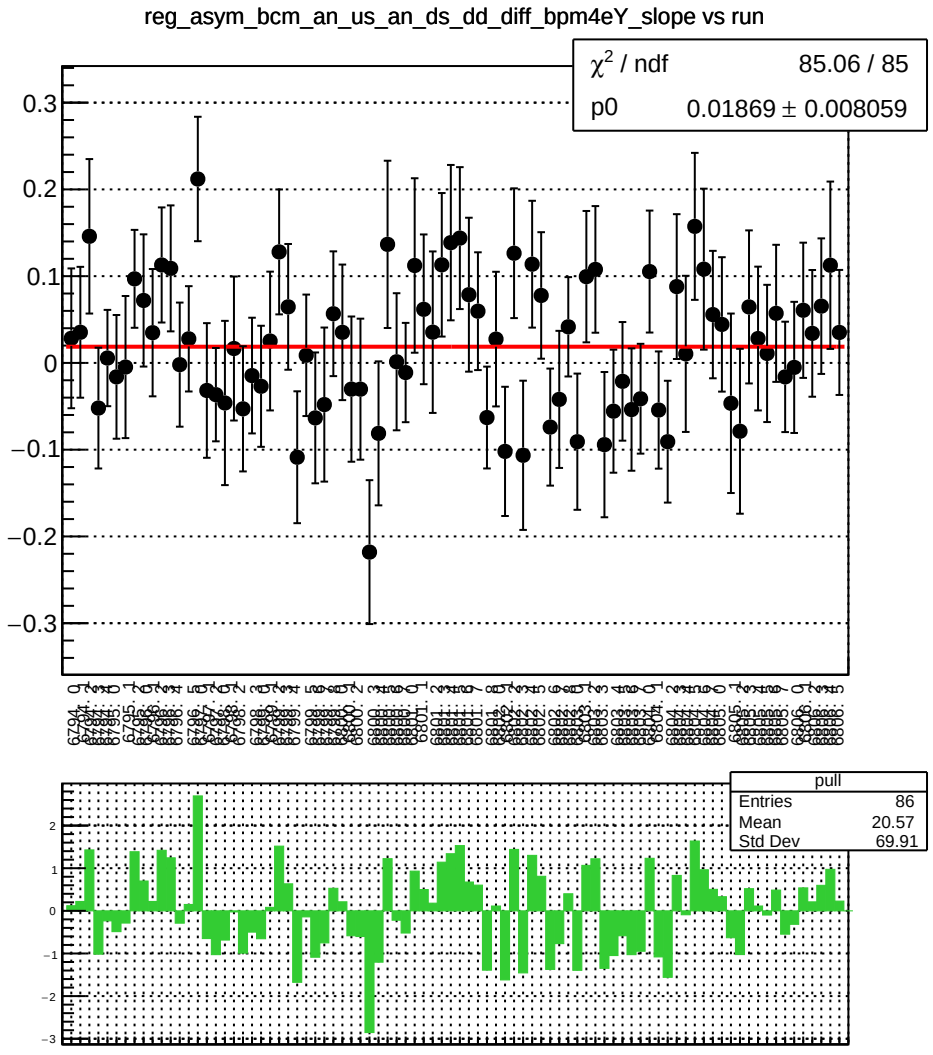

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 73.64 / 85
p0 −0.008076 ± 0.01225
pull
Entries 86
Mean 76.08
Std Dev 0
pull1D
Entries 86
Mean 0.007603
Std Dev 0.9253

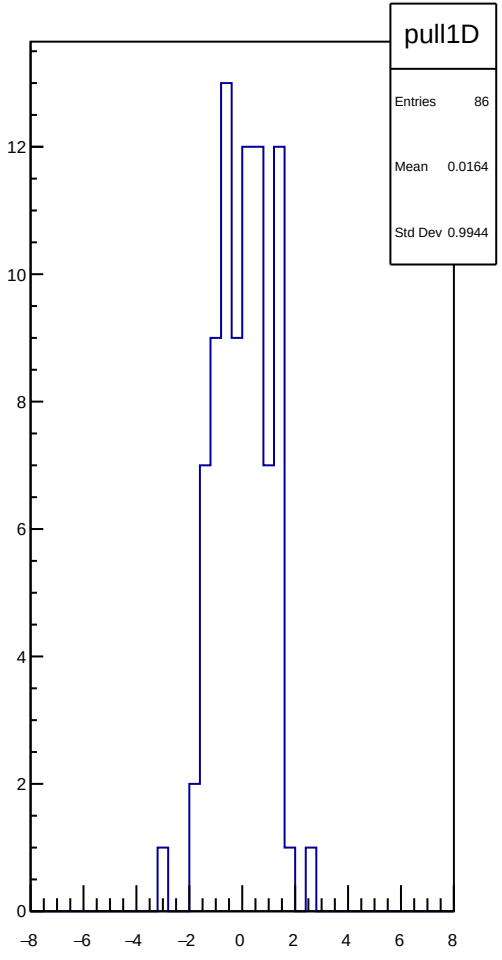

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.5 / 85
p0 −0.03014 ± 0.005794
pull
Entries 86
Mean 12.73
Std Dev 49.07

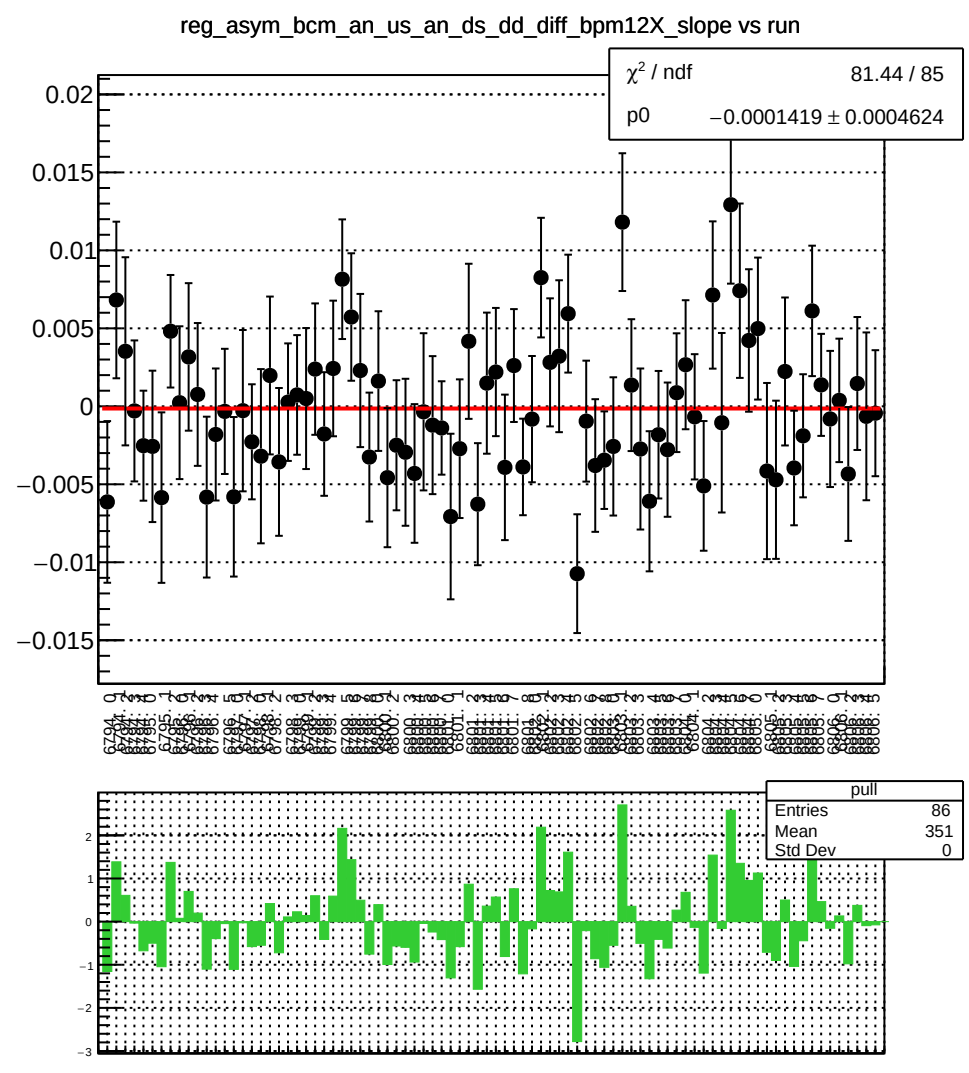

pull1D
Entries 86
Mean −0.02369
Std Dev 0.9791

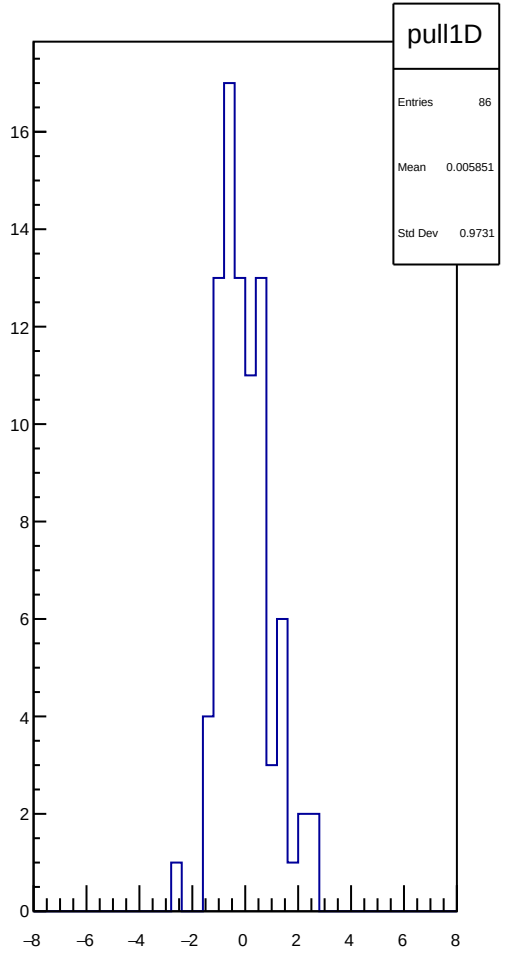

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 70.53 / 85
p0 −0.008436 ± 0.01146
pull
Entries 86
Mean 90.39
Std Dev 0

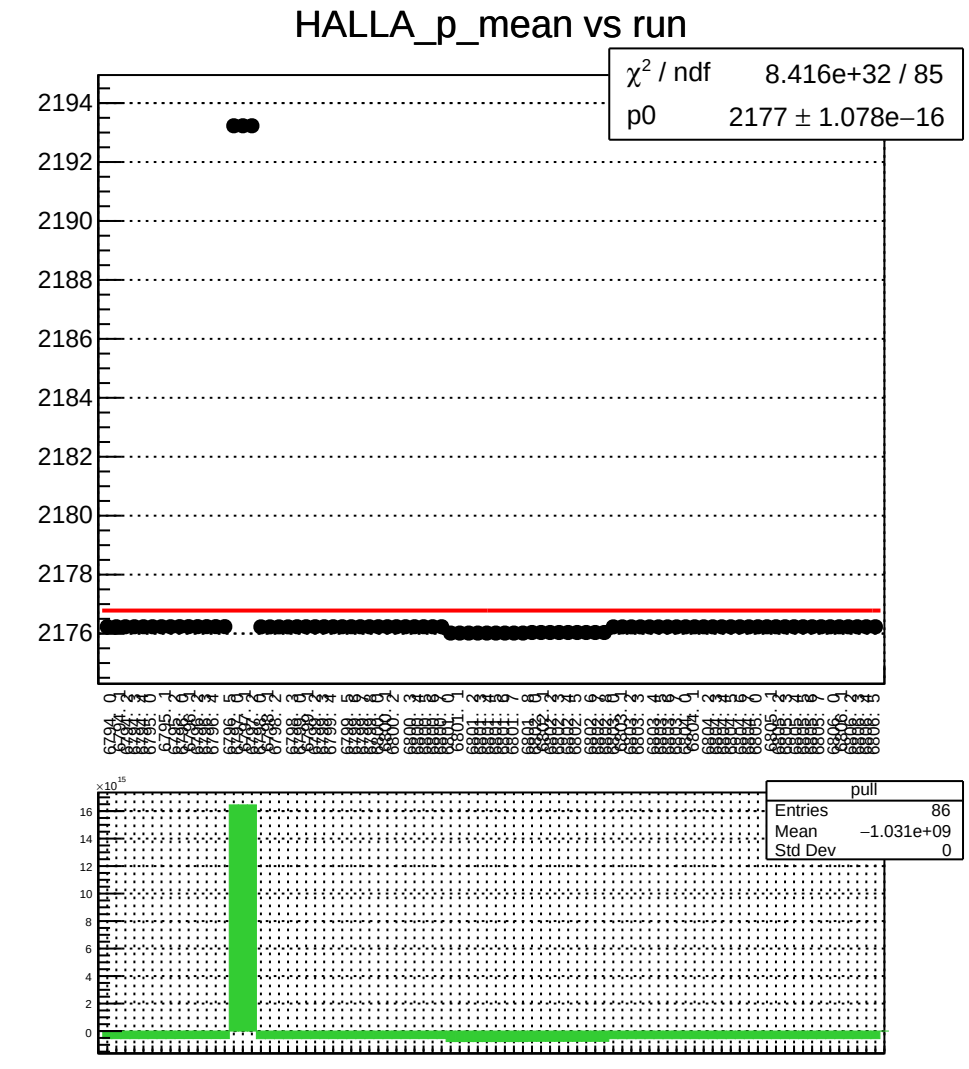

pull1D
Entries 86
Mean −0.00879
Std Dev 0.9055

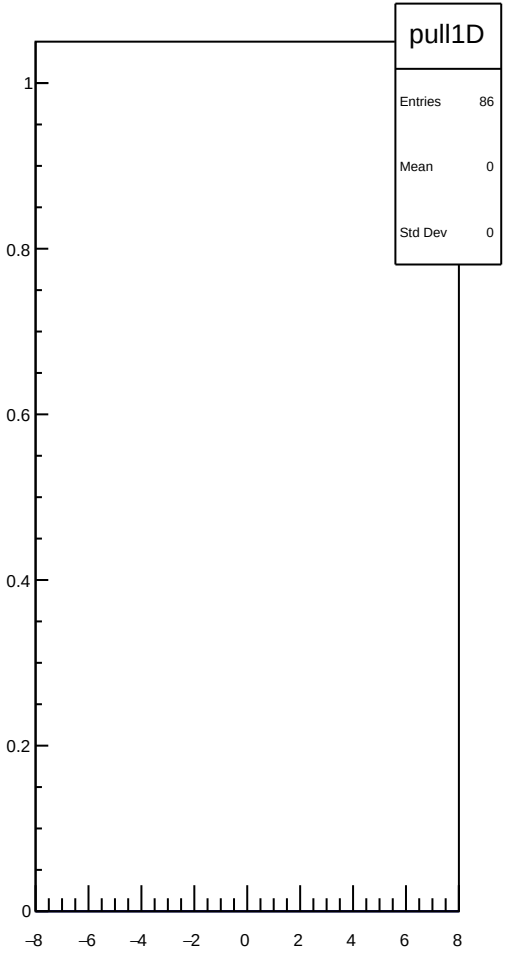

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.06 / 85
p0 0.01869 ± 0.008059
pull
Entries 86
Mean 20.57
Std Dev 69.91

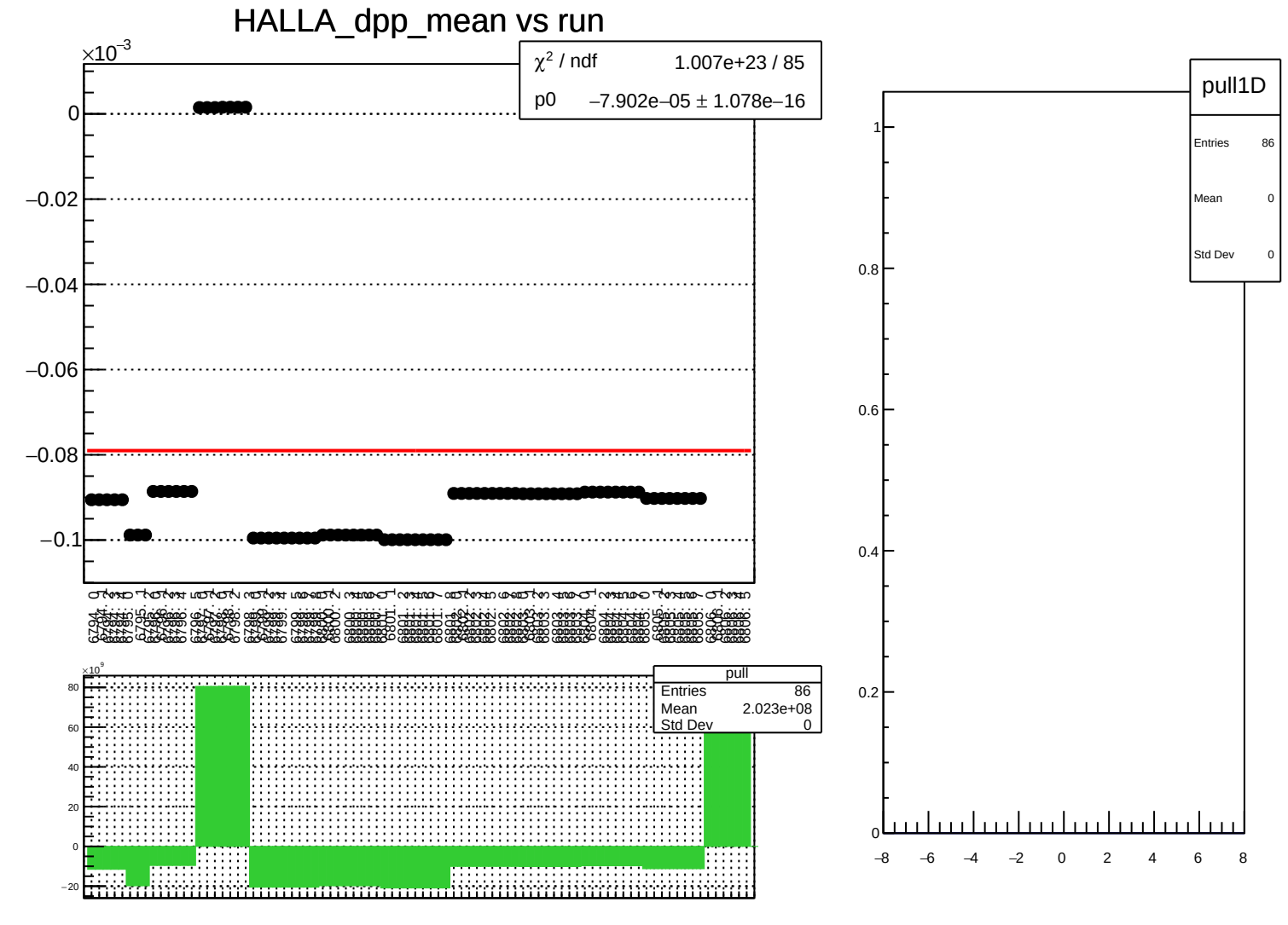

pull1D
Entries 86
Mean 0.0164
Std Dev 0.9944

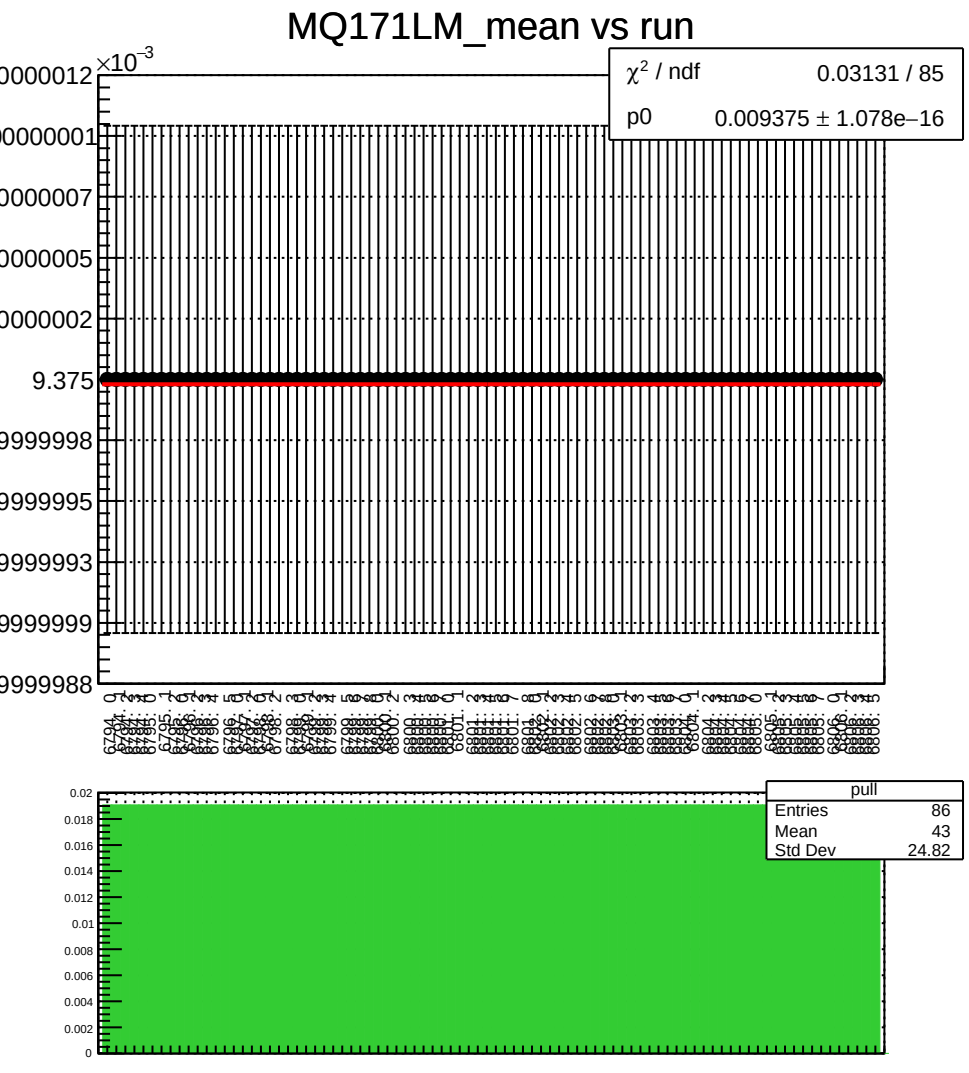

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 81.44 / 85
p0 −0.0001419 ± 0.0004624
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 86
Mean 351
Std Dev 0
2
1
0
−1
−2
−3

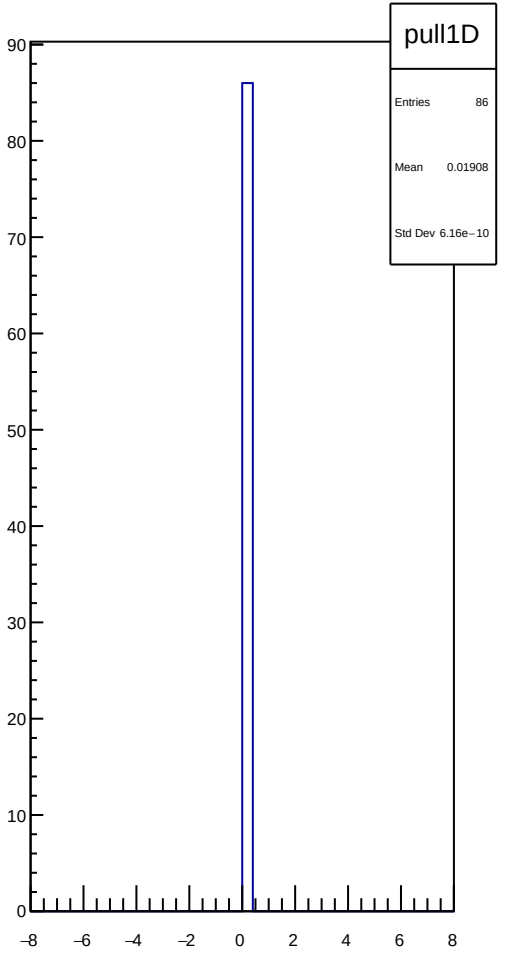

pull1D
Entries 86
Mean 0.005851
Std Dev 0.9731
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

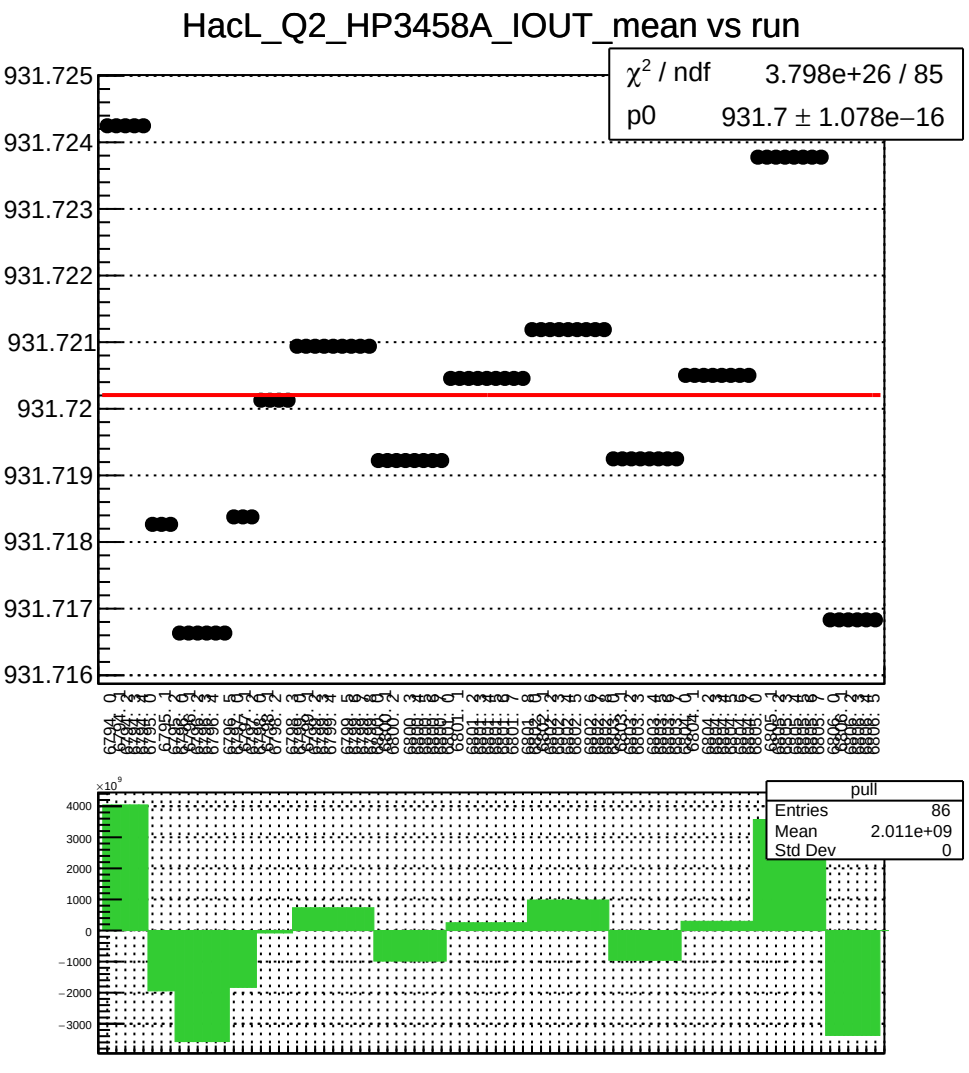

HALLA_p_mean vs run
χ² / ndf 8.416e+32 / 85
p0 2177 ± 1.078e−16
2194
2192
2190
2188
2186
2184
2182
2180
2178
2176
pull
Entries 86
Mean −1.031e+09
Std Dev 0
×10¹⁵
16
14
12
10
8
6
4
2
0

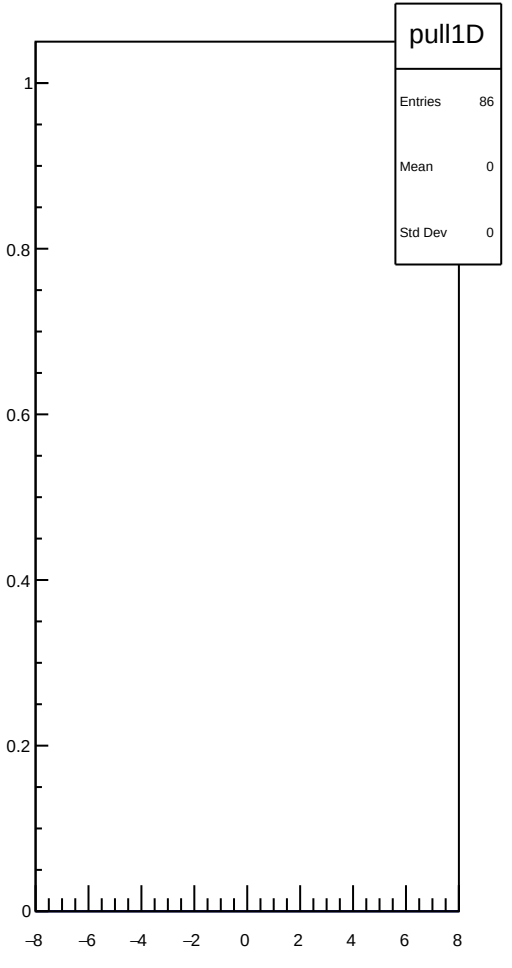

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

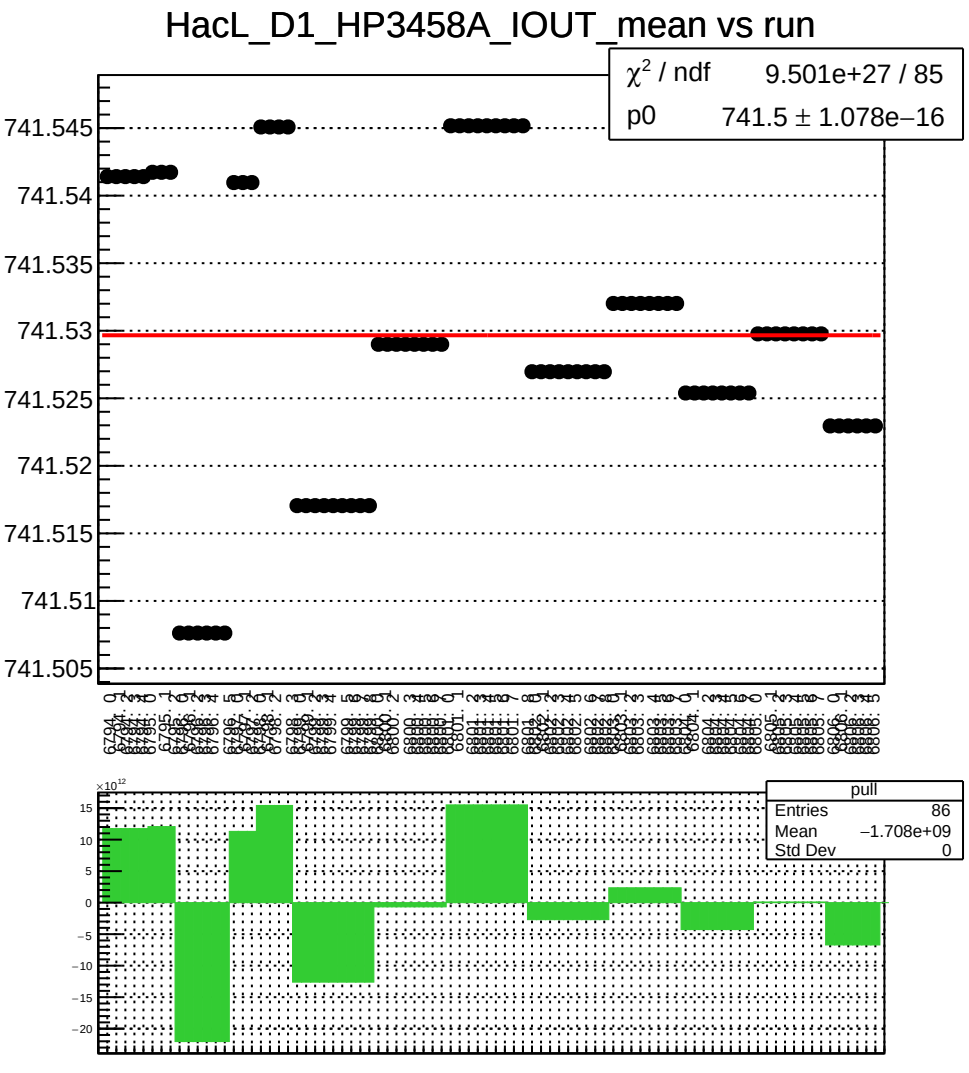

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.007e+23 / 85
p0 −7.902e−05 ± 1.078e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
80
60
40
20
0
−20
pull
Entries 86
Mean 2.023e+08
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

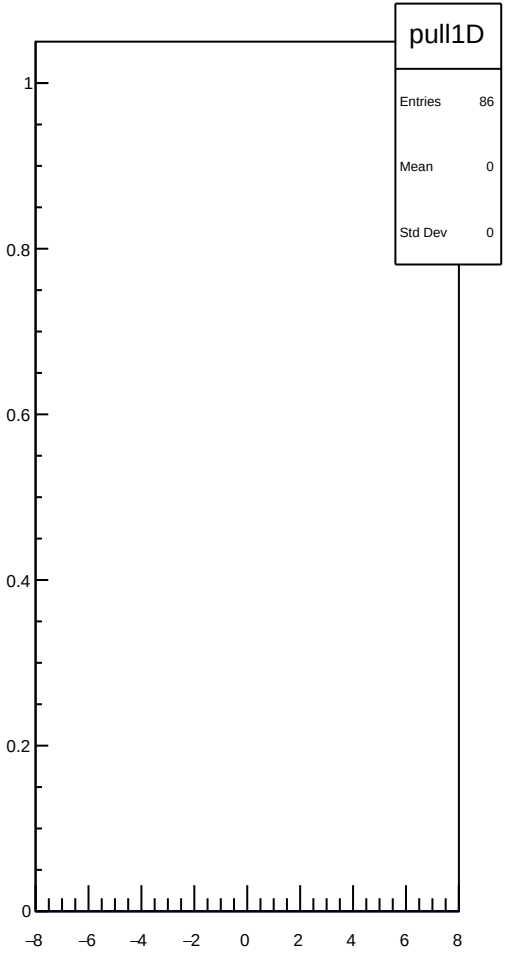

MQ171LM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82

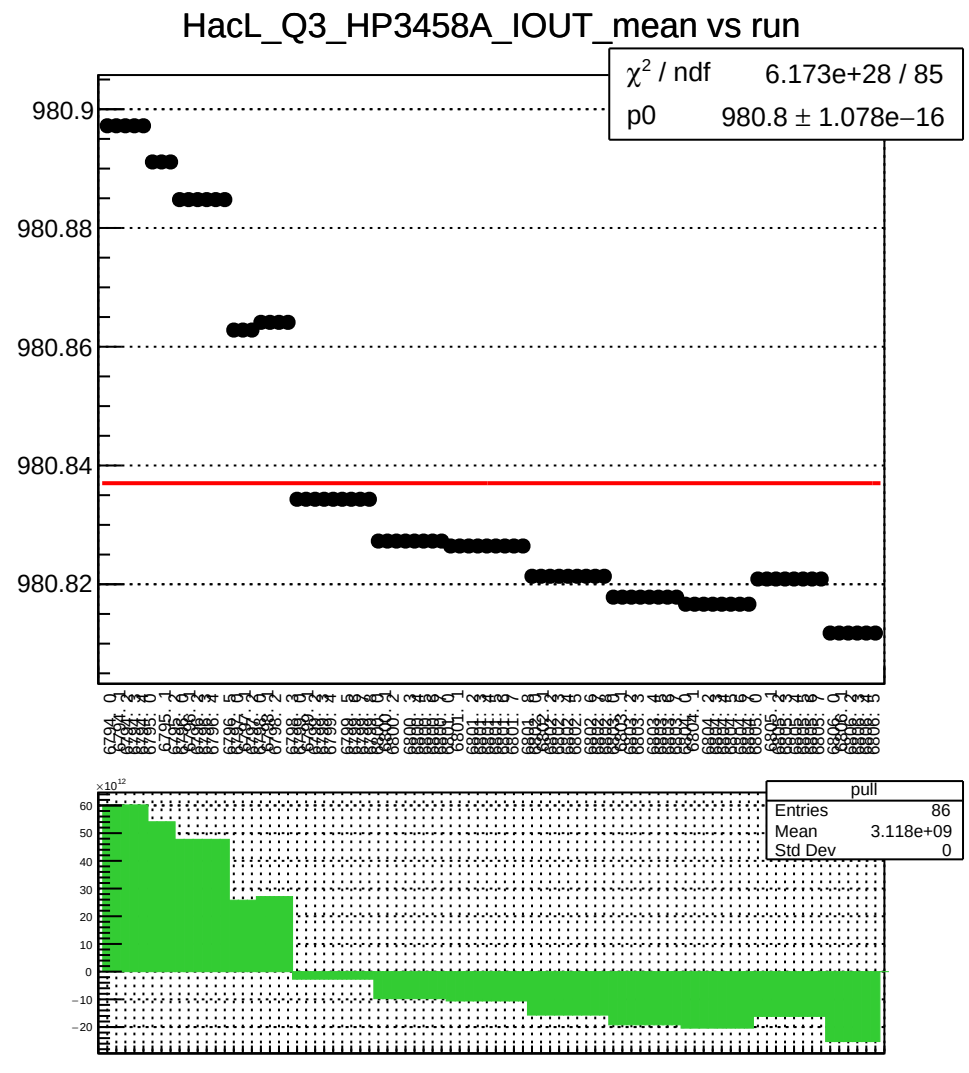

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

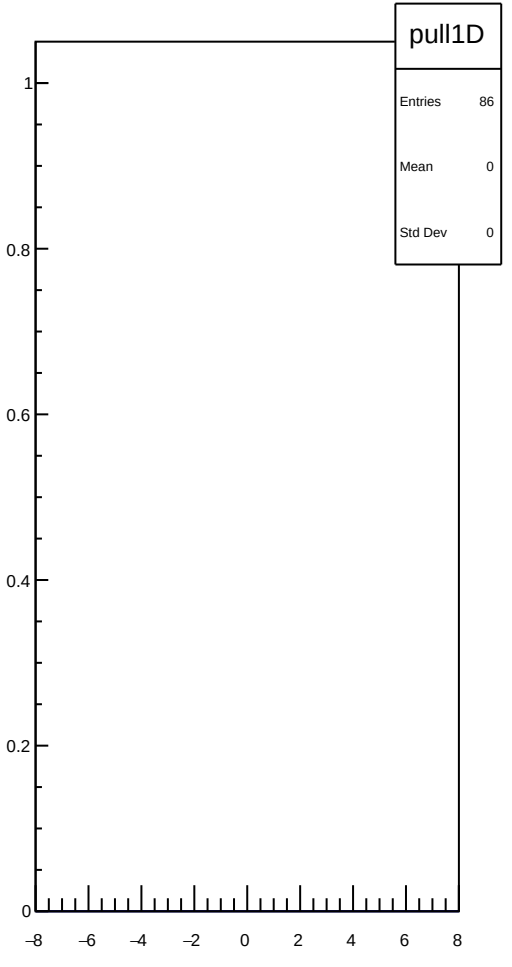

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.798e+26 / 85
p0 931.7 ± 1.078e−16
931.725
931.724
931.723
931.722
931.721
931.72
931.719
931.718
931.717
931.716
pull
Entries 86
Mean 2.011e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

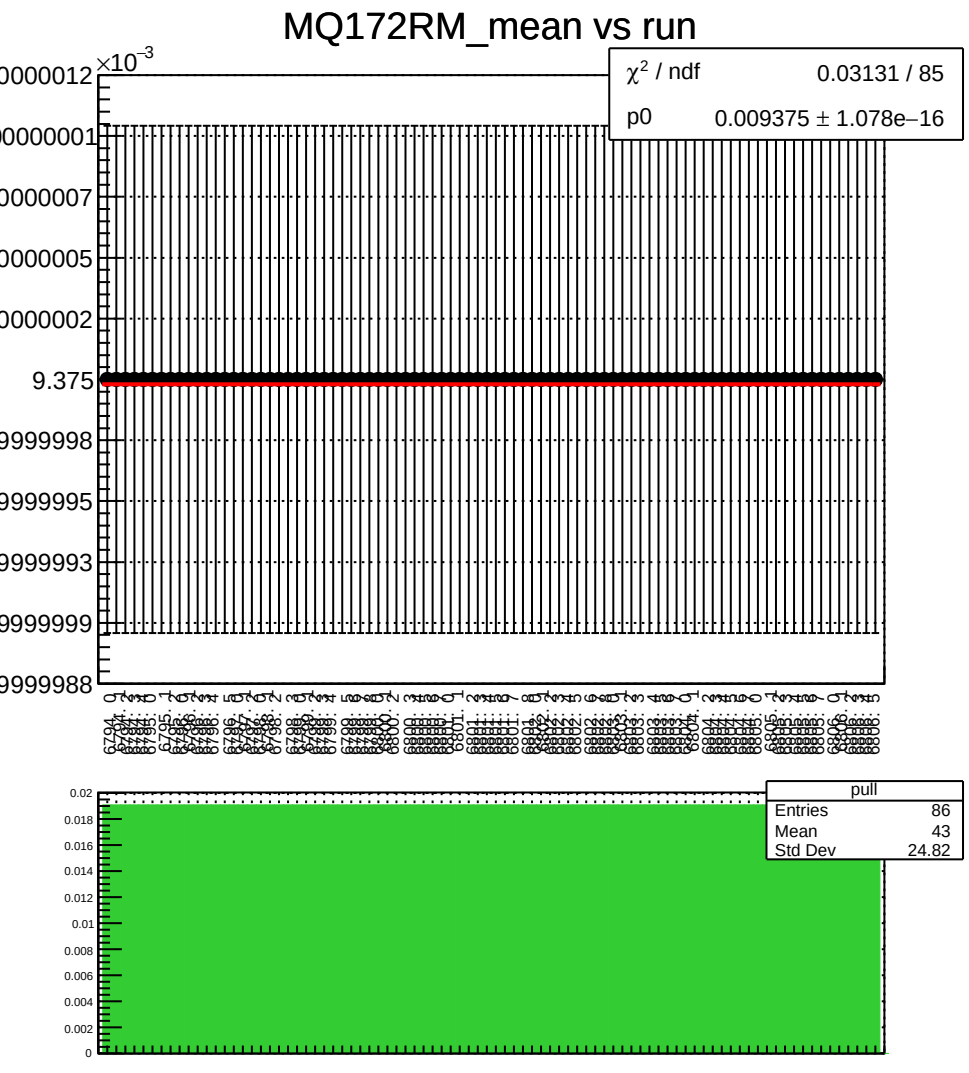

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

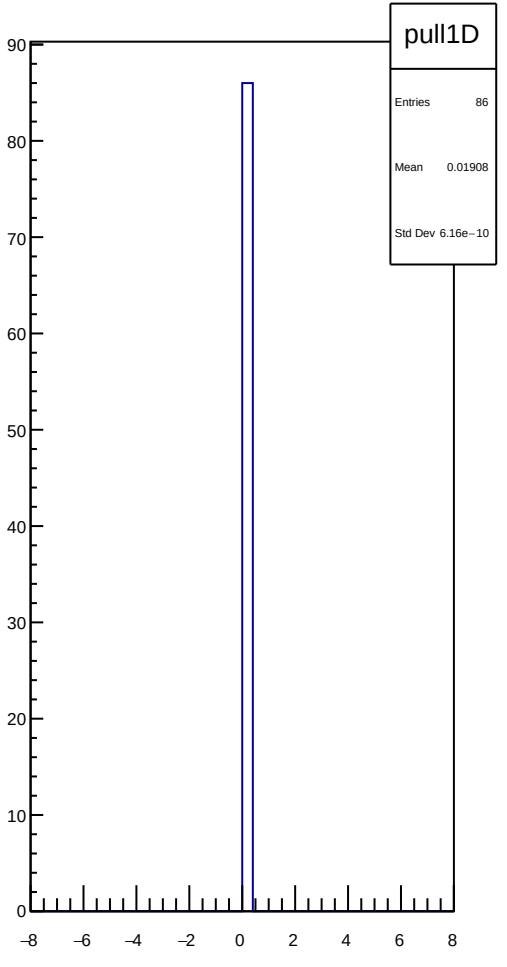

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.501e+27 / 85
p0 741.5 ± 1.078e−16
741.545
741.54
741.535
741.53
741.525
741.52
741.515
741.51
741.505
pull
Entries 86
Mean −1.708e+09
Std Dev 0
×10¹²
15
10
5
0
−5
−10
−15
−20

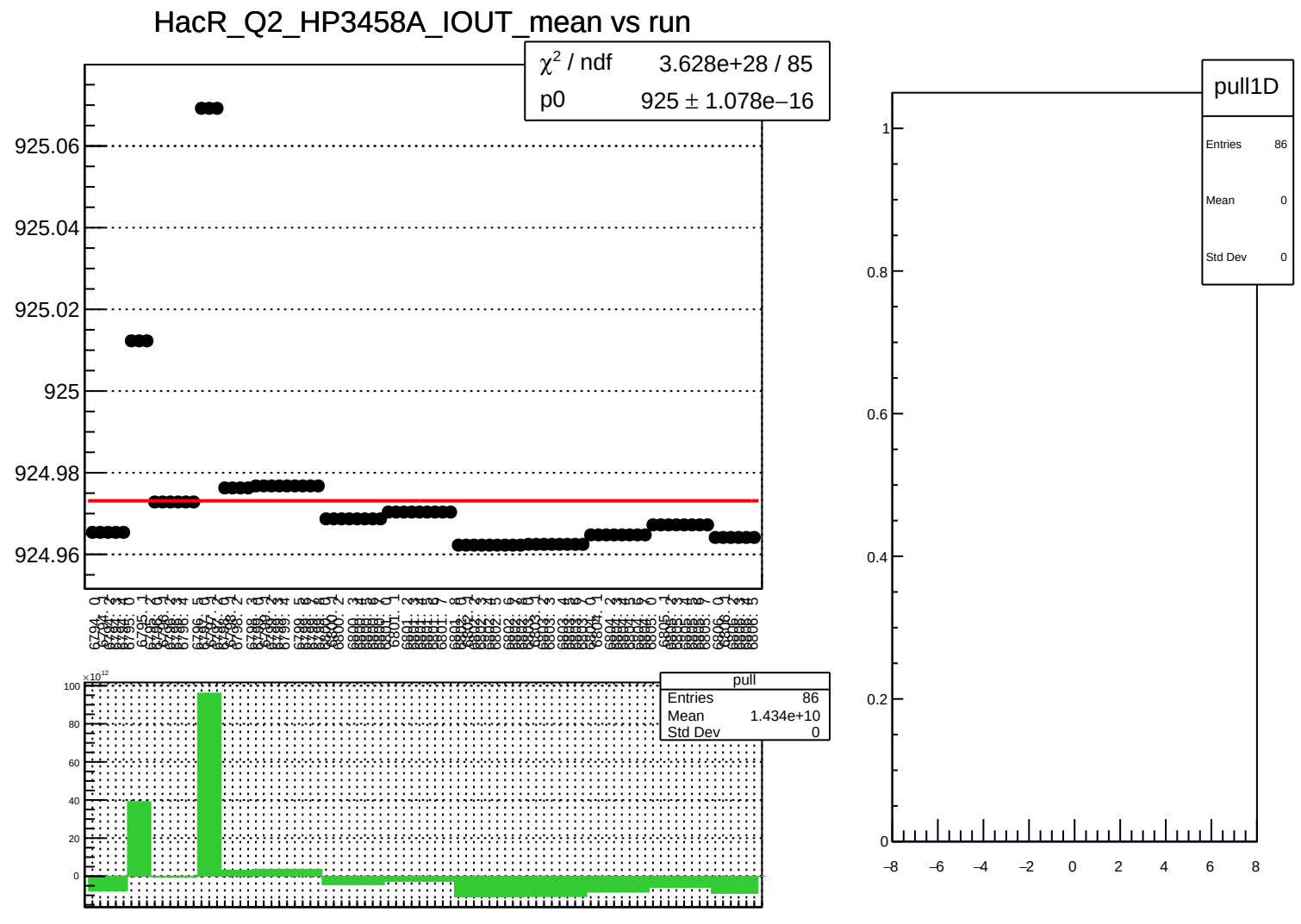

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

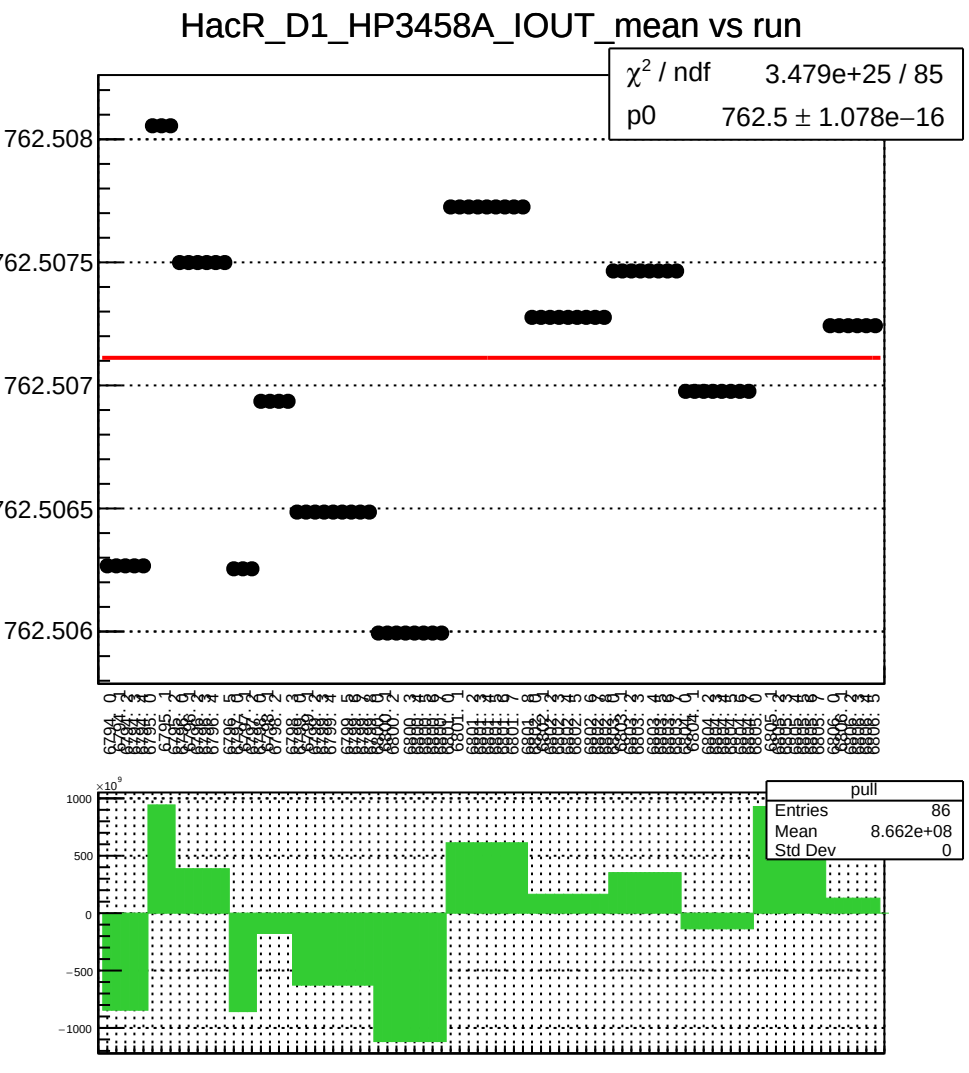

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 6.173e+28 / 85
p0 980.8 ± 1.078e−16
980.9
980.88
980.86
980.84
980.82
pull
Entries 86
Mean 3.118e+09
Std Dev 0
×10¹²
60
50
40
30
20
10
0
−10
−20

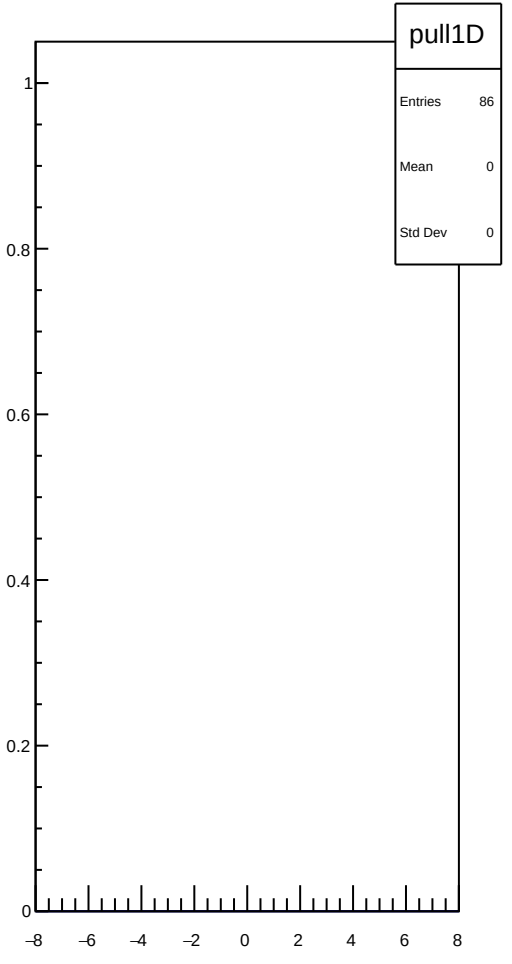

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

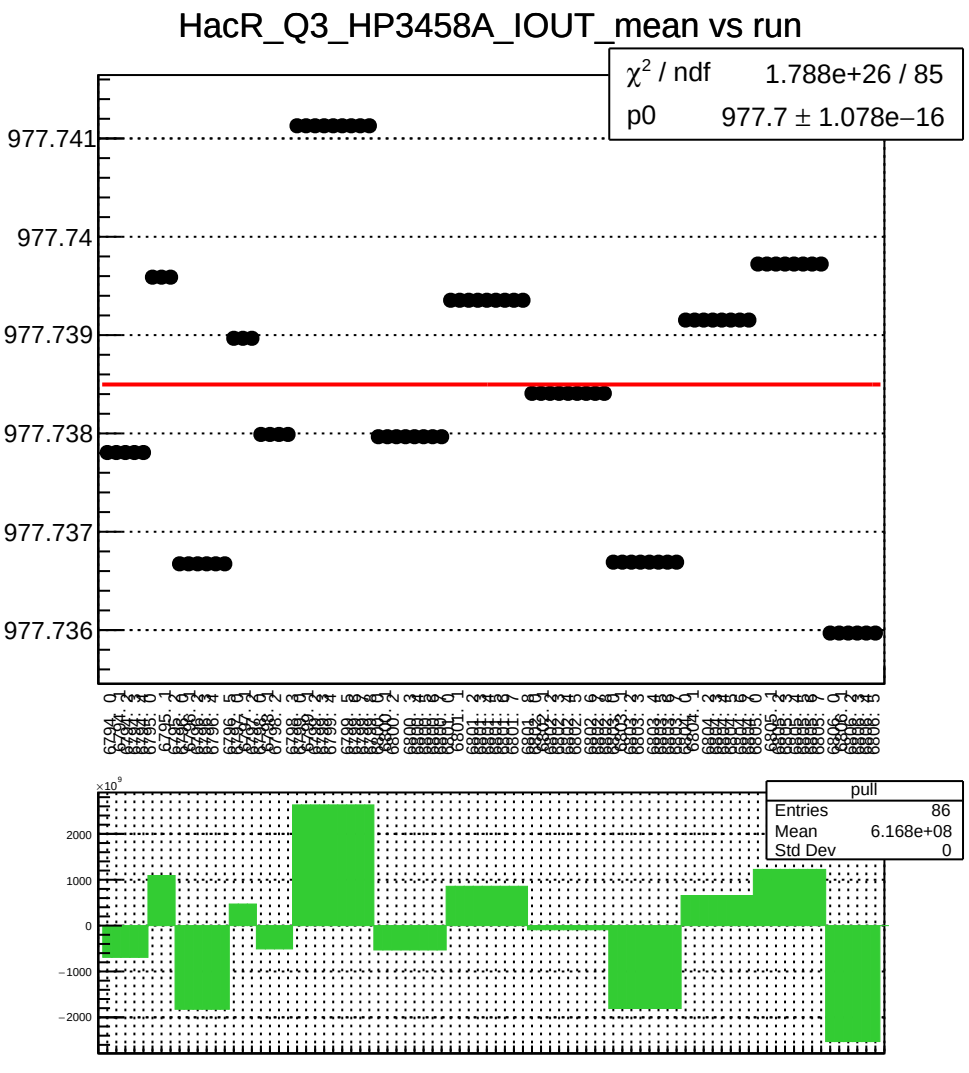

MQ172RM_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

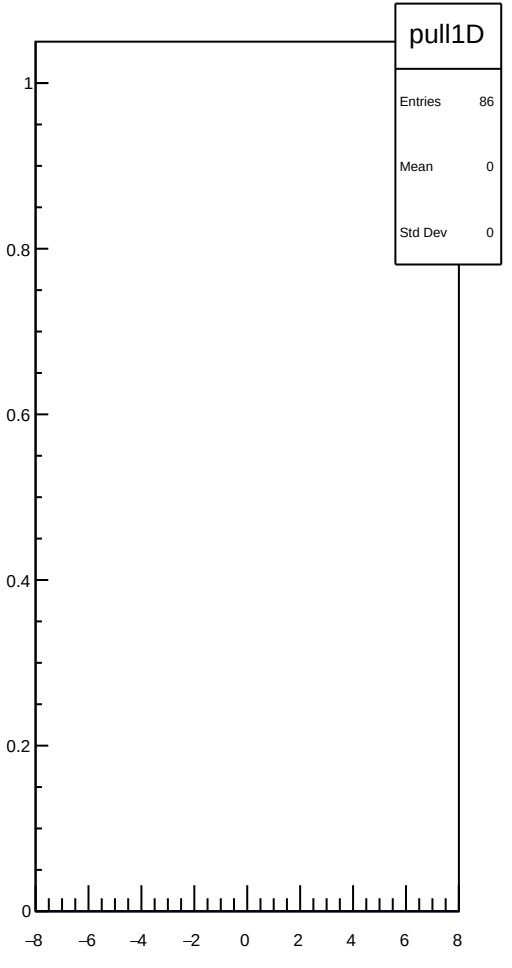

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

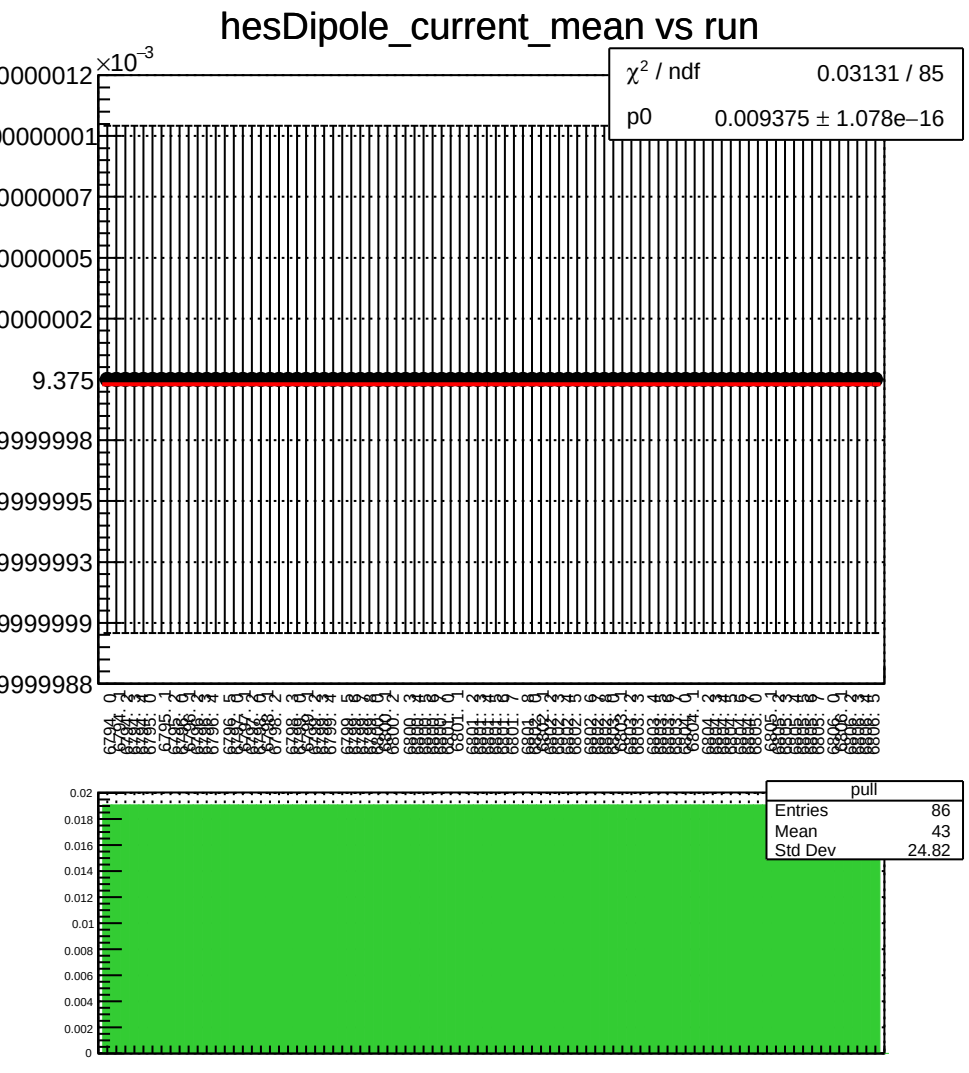

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 3.628e+28 / 85
p0 925 ± 1.078e−16
925.06
925.04
925.02
925
924.98
924.96
pull
Entries 86
Mean 1.434e+10
Std Dev 0
pull1D
Entries 86
Mean 0
Std Dev 0

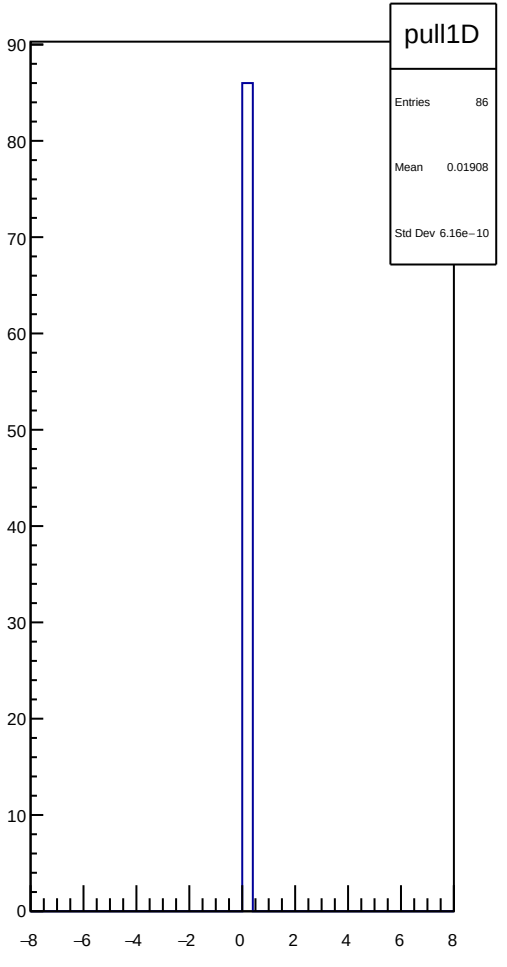

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 3.479e+25 / 85
p0 762.5 ± 1.078e−16
762.508
762.5075
762.507
762.5065
762.506
×10⁹
1000
500
0
−500
−1000
pull
Entries 86
Mean 8.662e+08
Std Dev 0

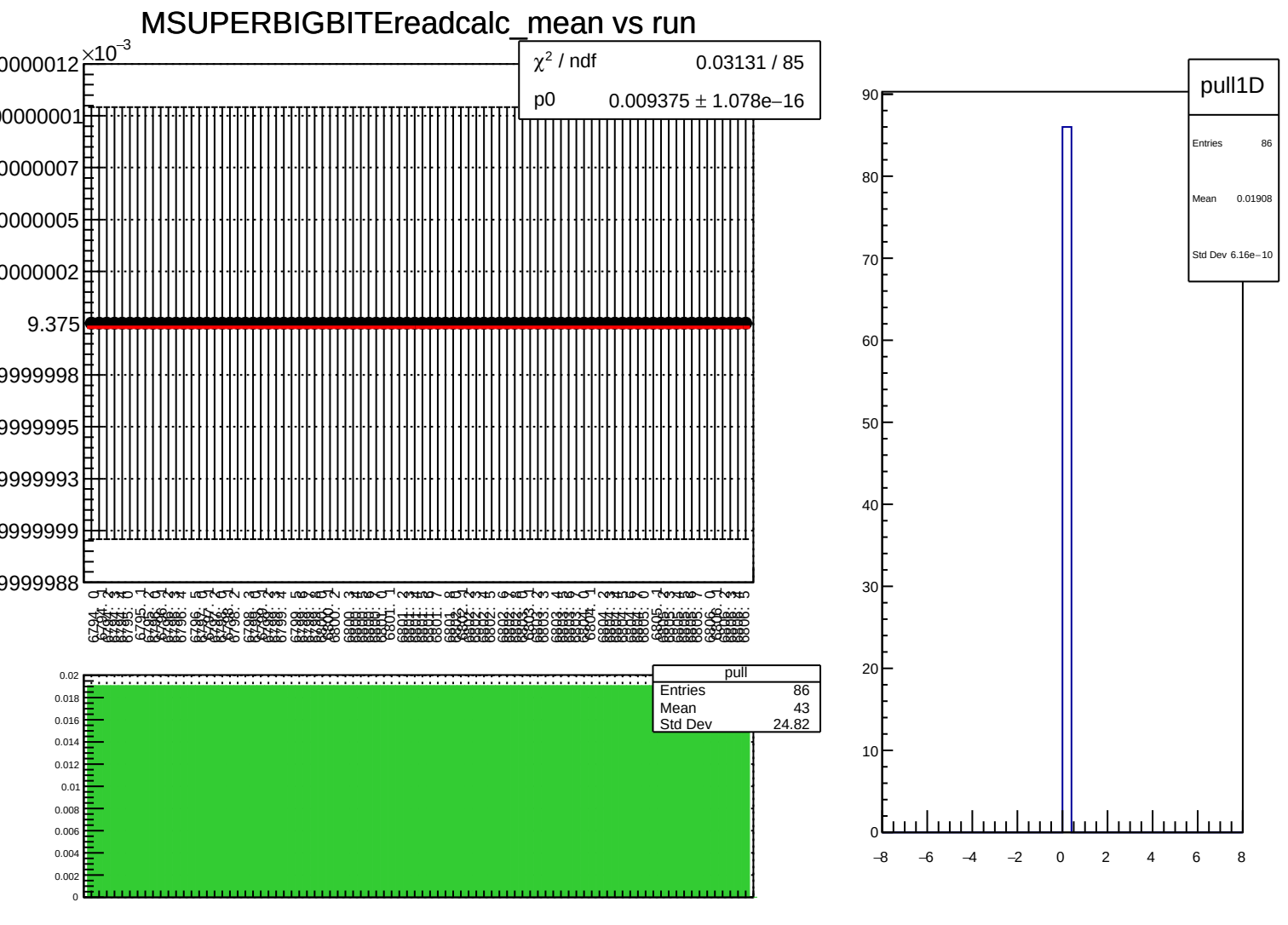

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

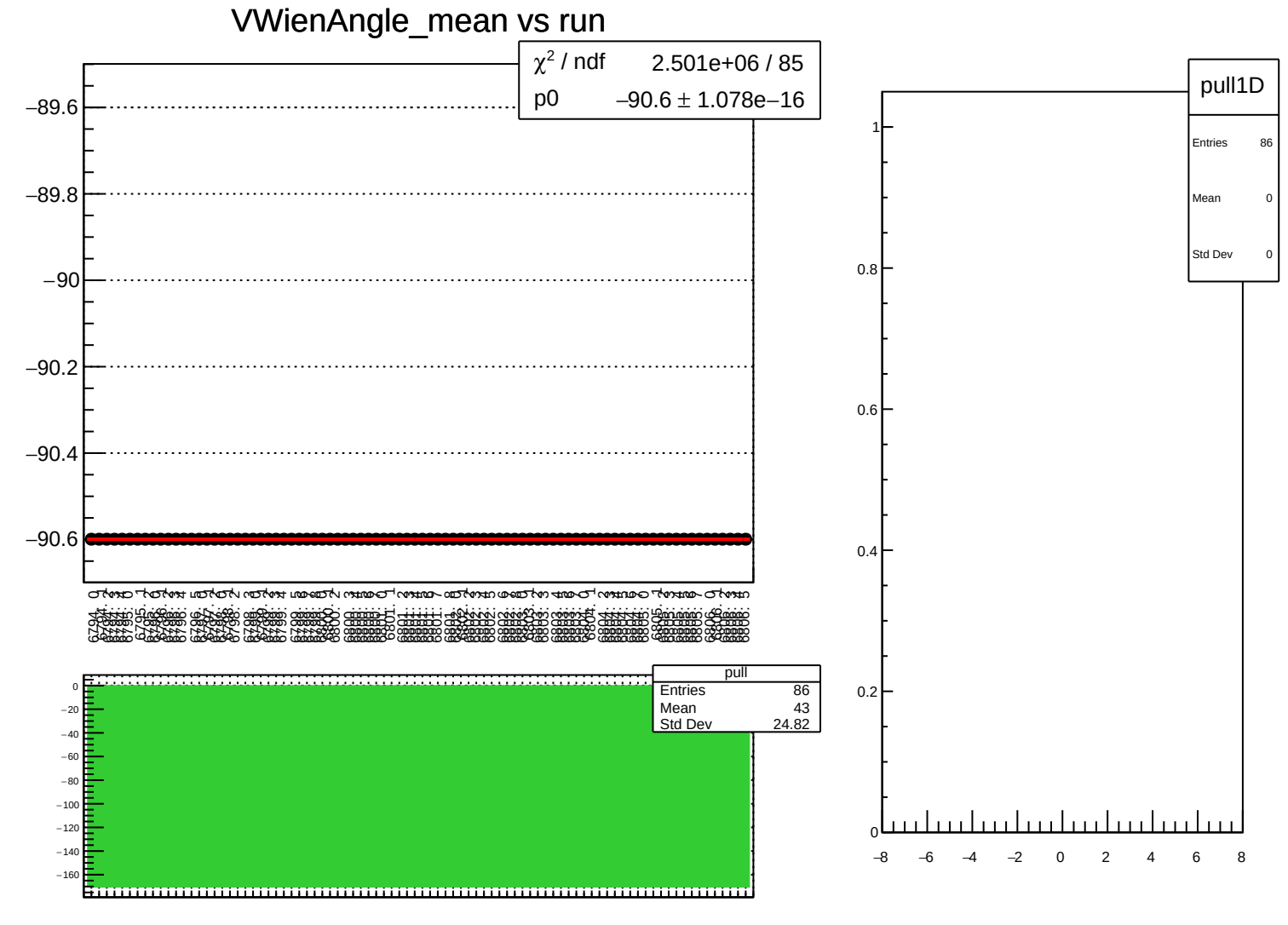

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.788e+26 / 85
p0 977.7 ± 1.078e−16
977.741
977.74
977.739
977.738
977.737
977.736
pull
Entries 86
Mean 6.168e+08
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000

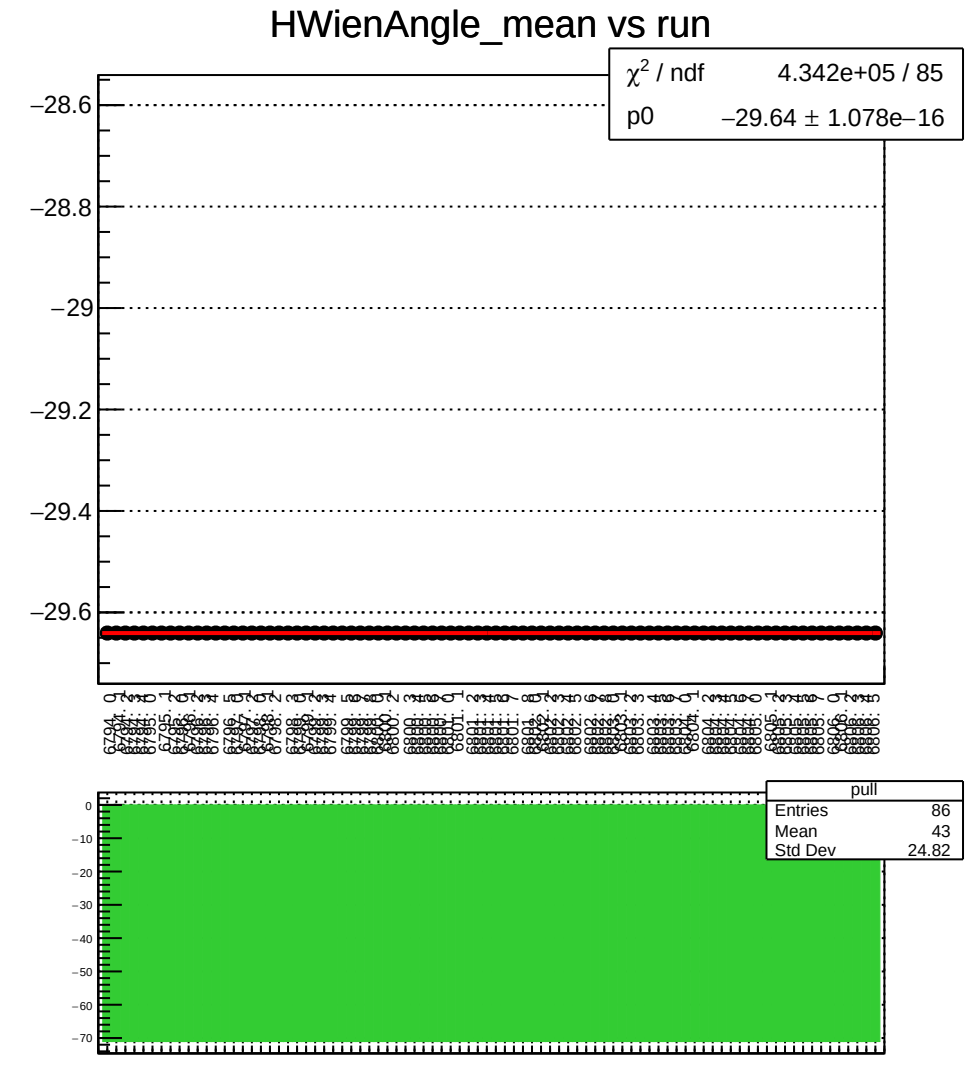

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

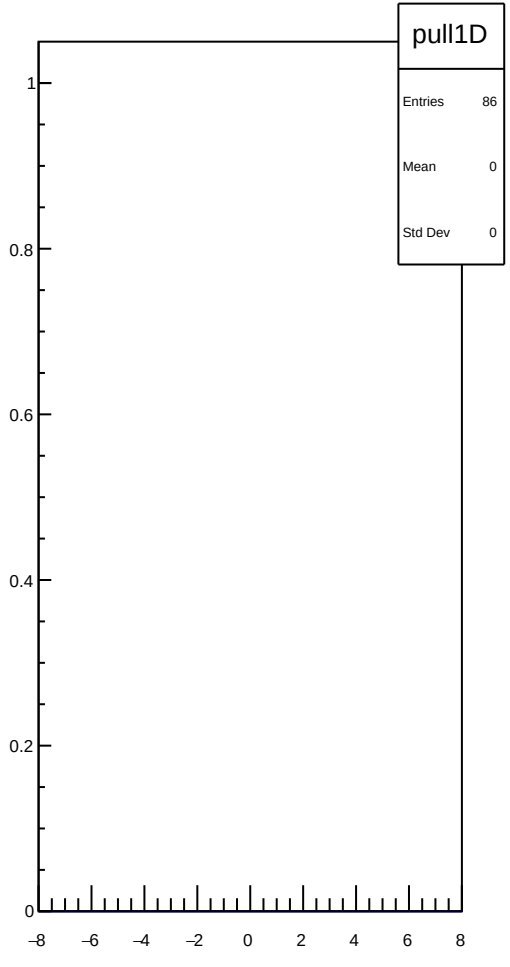

hesDipole_current_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
9.375
pull
Entries 86
Mean 43
Std Dev 24.82

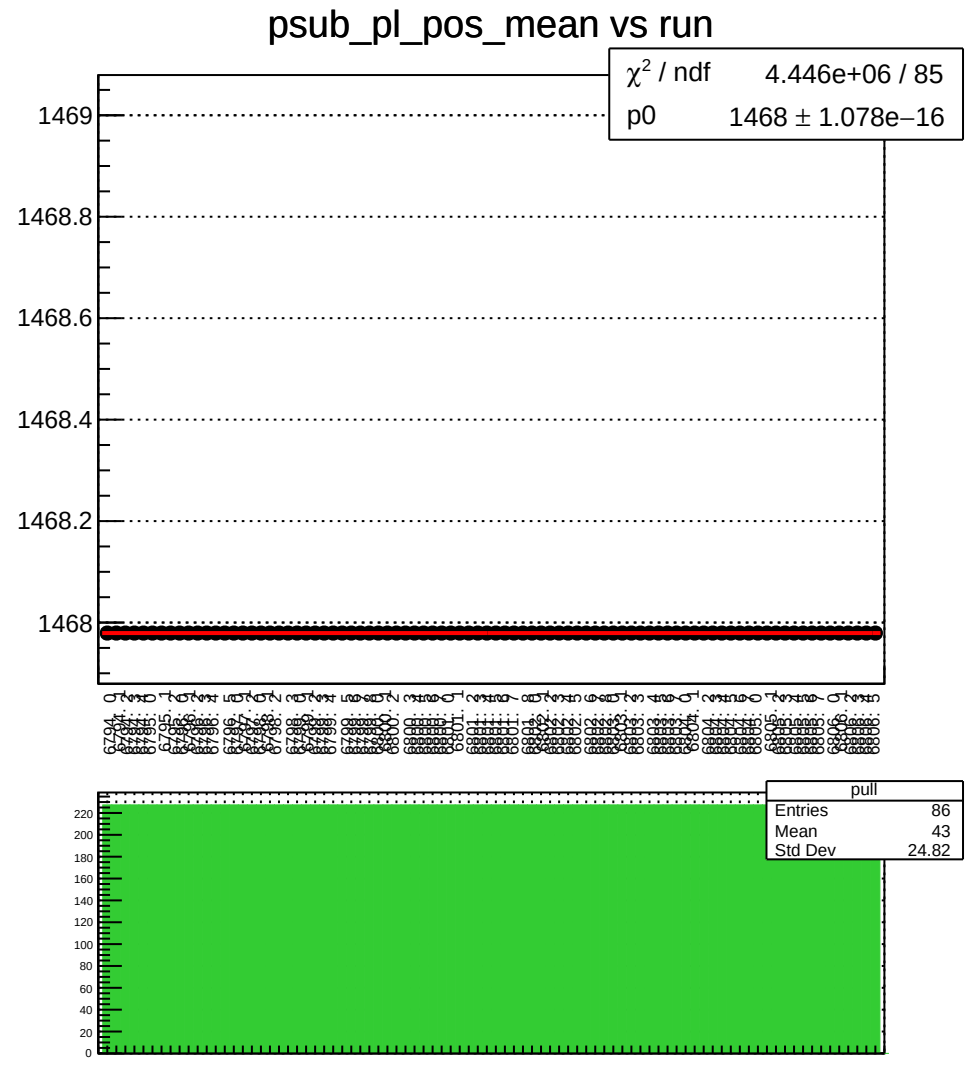

pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

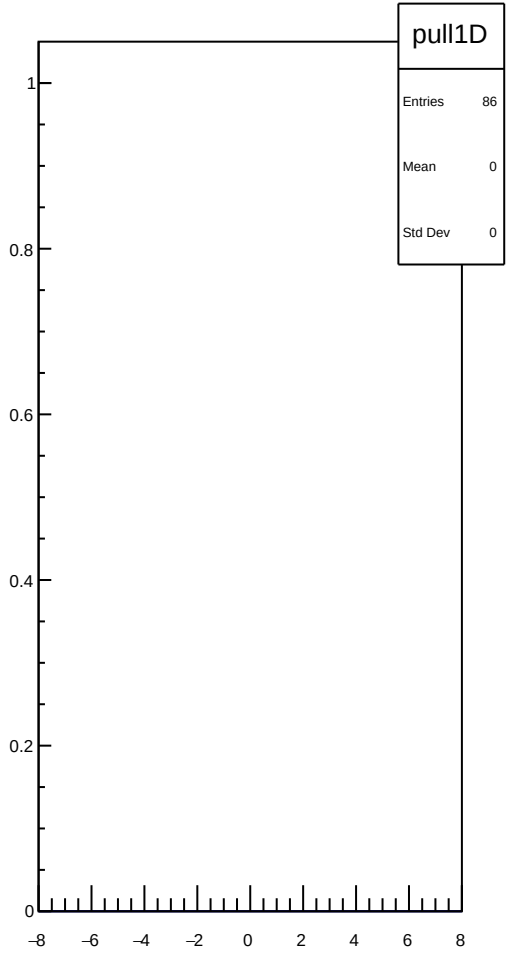

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82
pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10

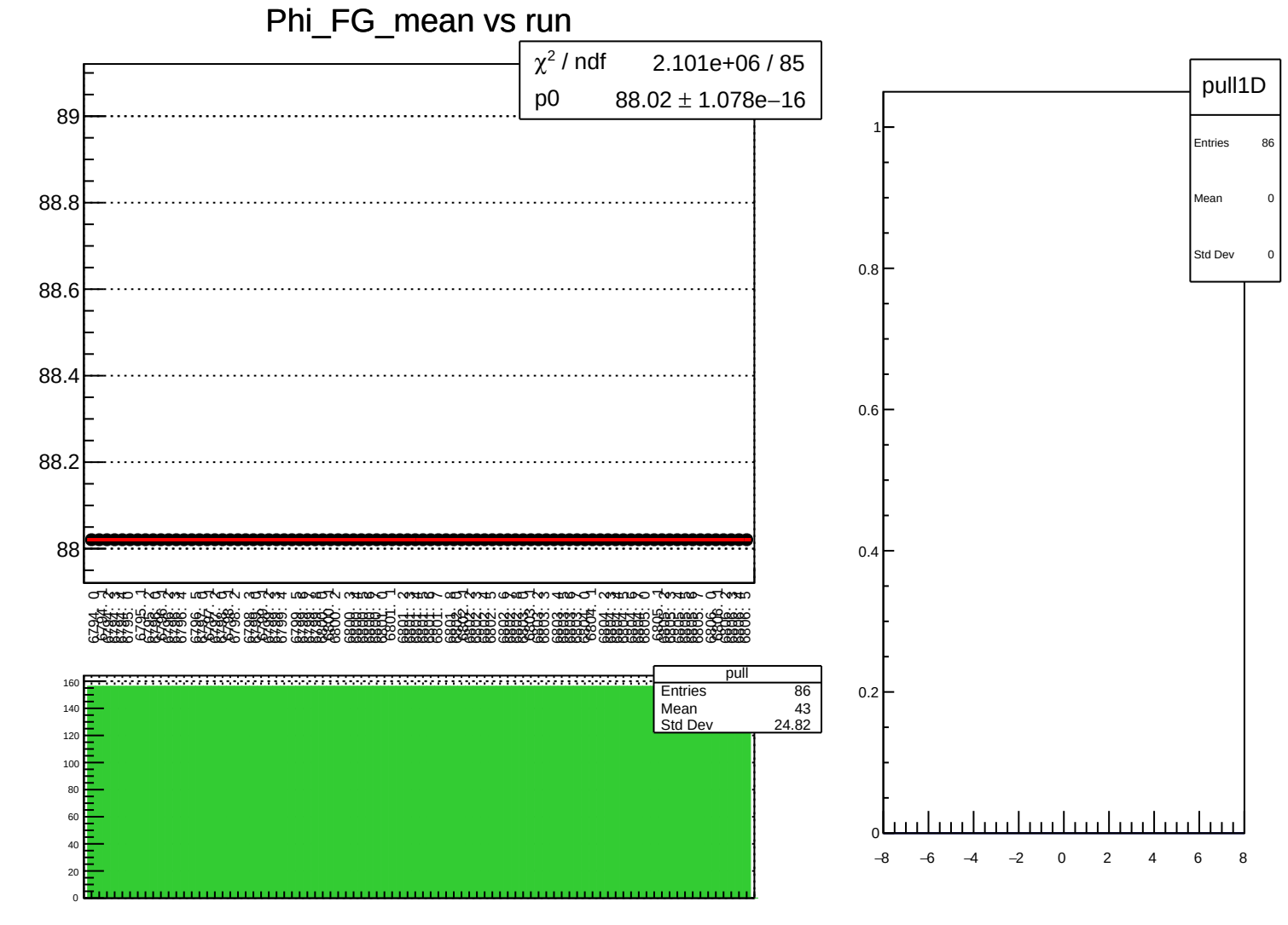

VWienAngle_mean vs run
χ² / ndf 2.501e+06 / 85
p0 −90.6 ± 1.078e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

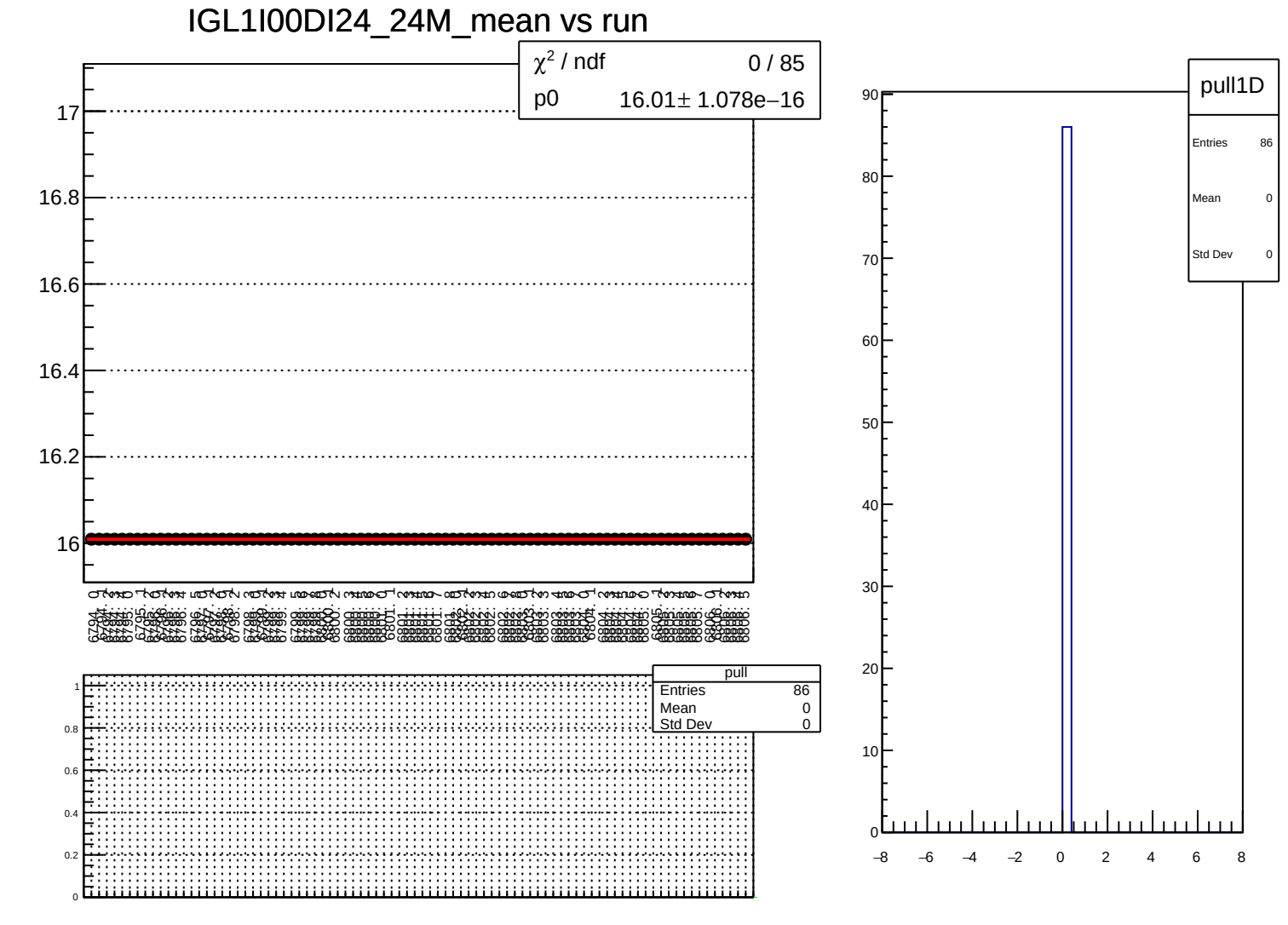

HWienAngle_mean vs run
χ² / ndf 4.342e+05 / 85
p0 −29.64 ± 1.078e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 86
Mean 43
Std Dev 24.82
0
−10
−20
−30
−40
−50
−60
−70

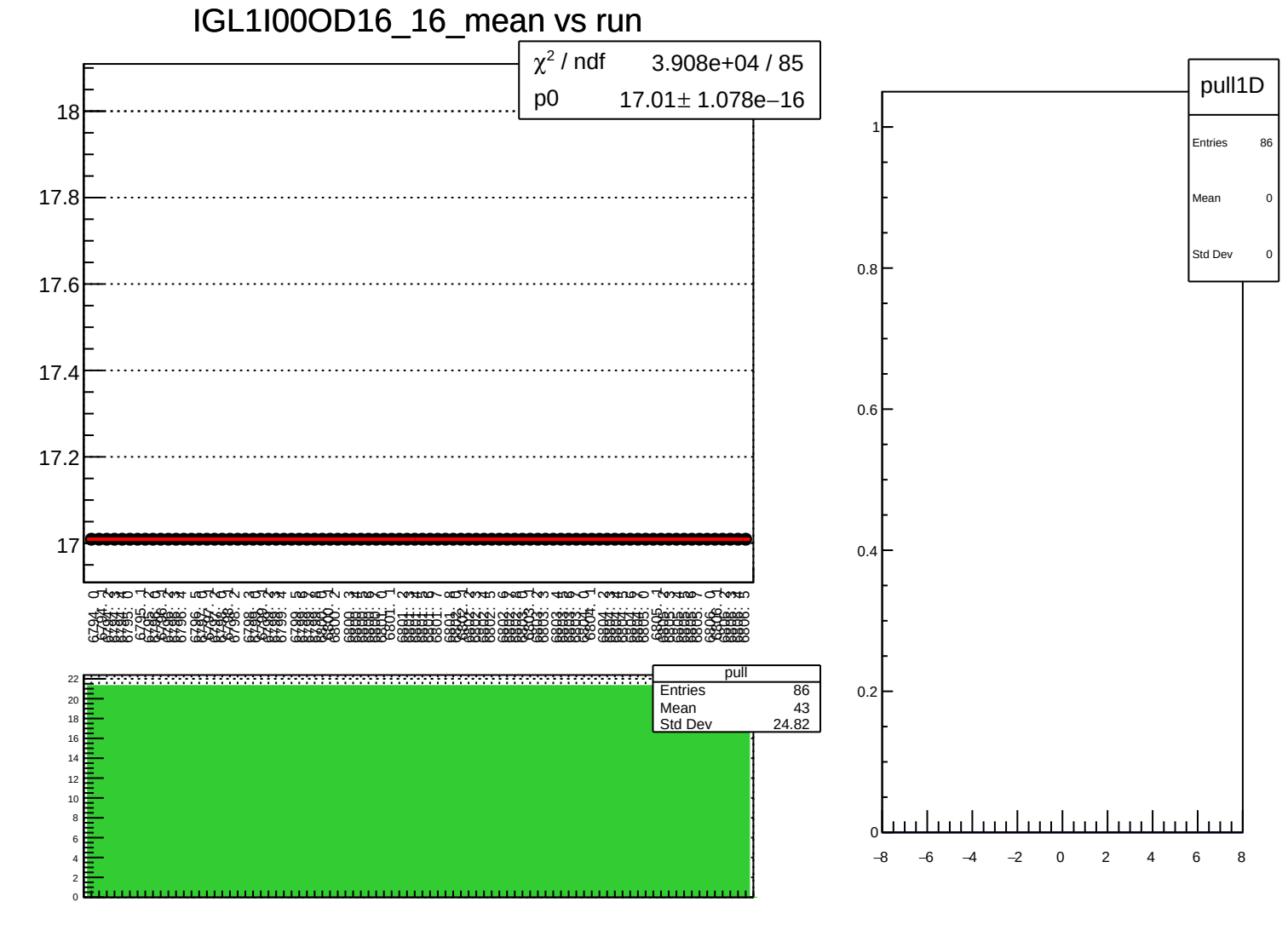

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

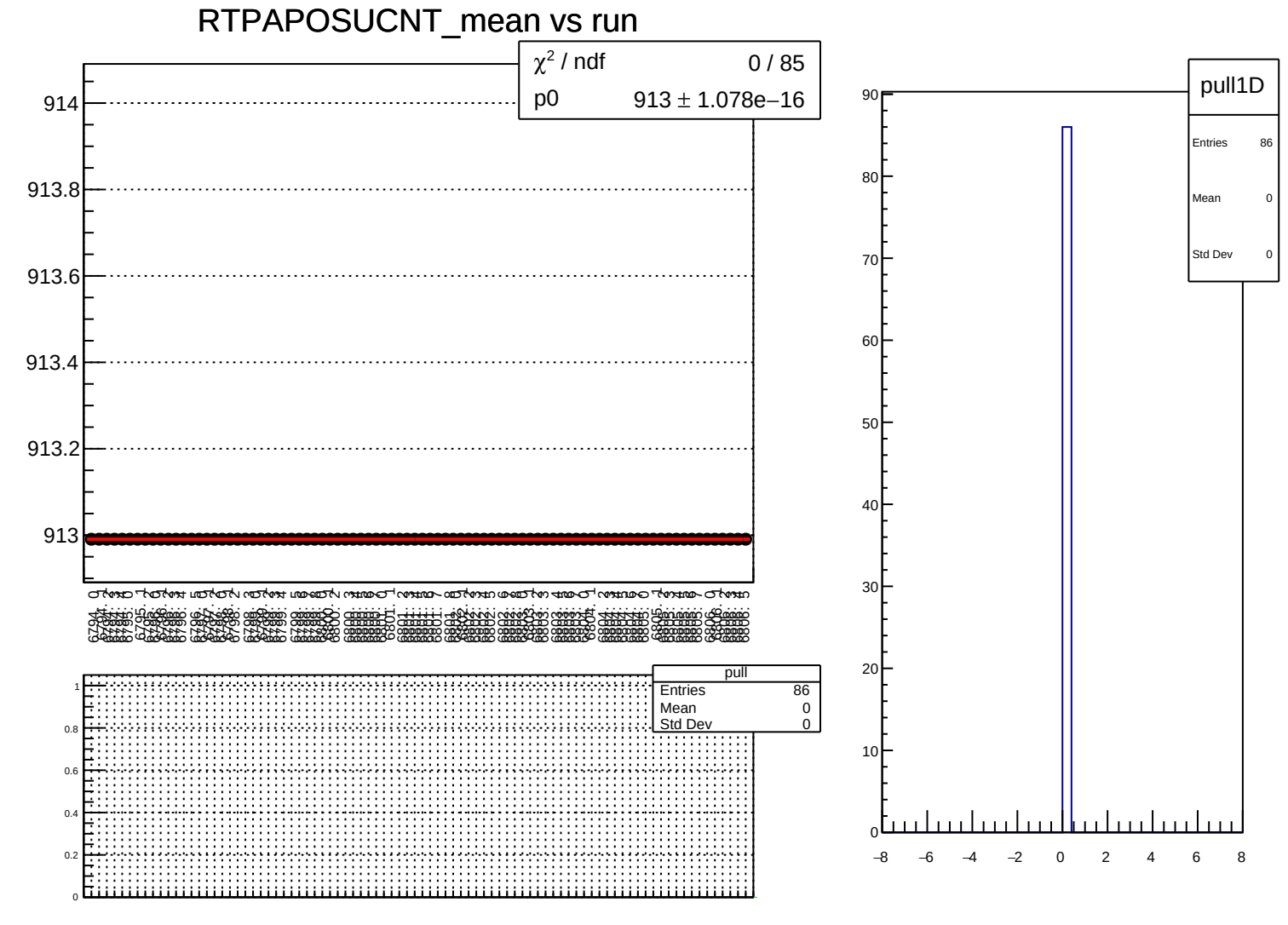

psub_pl_pos_mean vs run
χ² / ndf 4.446e+06 / 85
p0 1468 ± 1.078e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 86
Mean 43
Std Dev 24.82
220
200
180
160
140
120
100
80
60
40
20
0

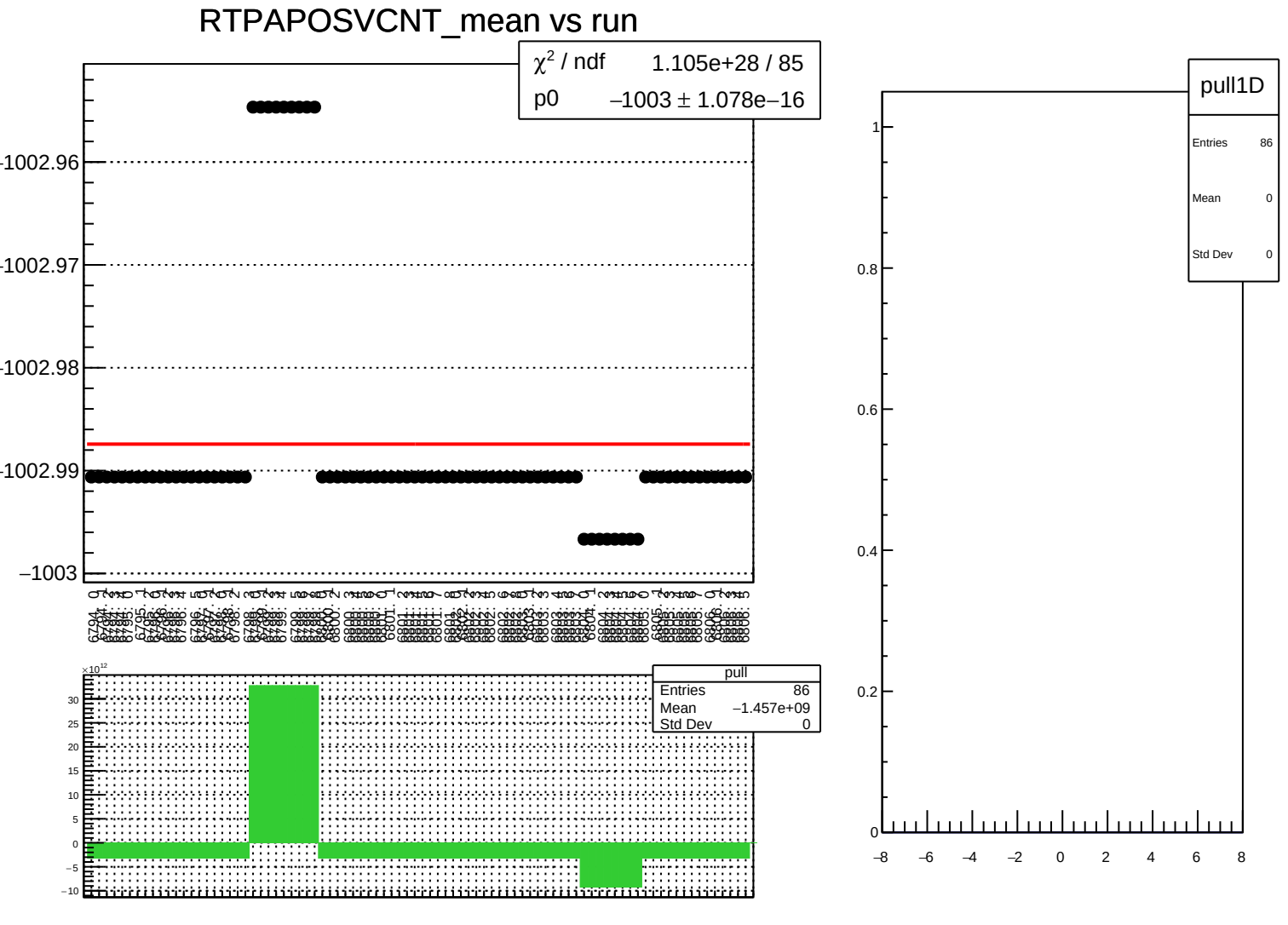

pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

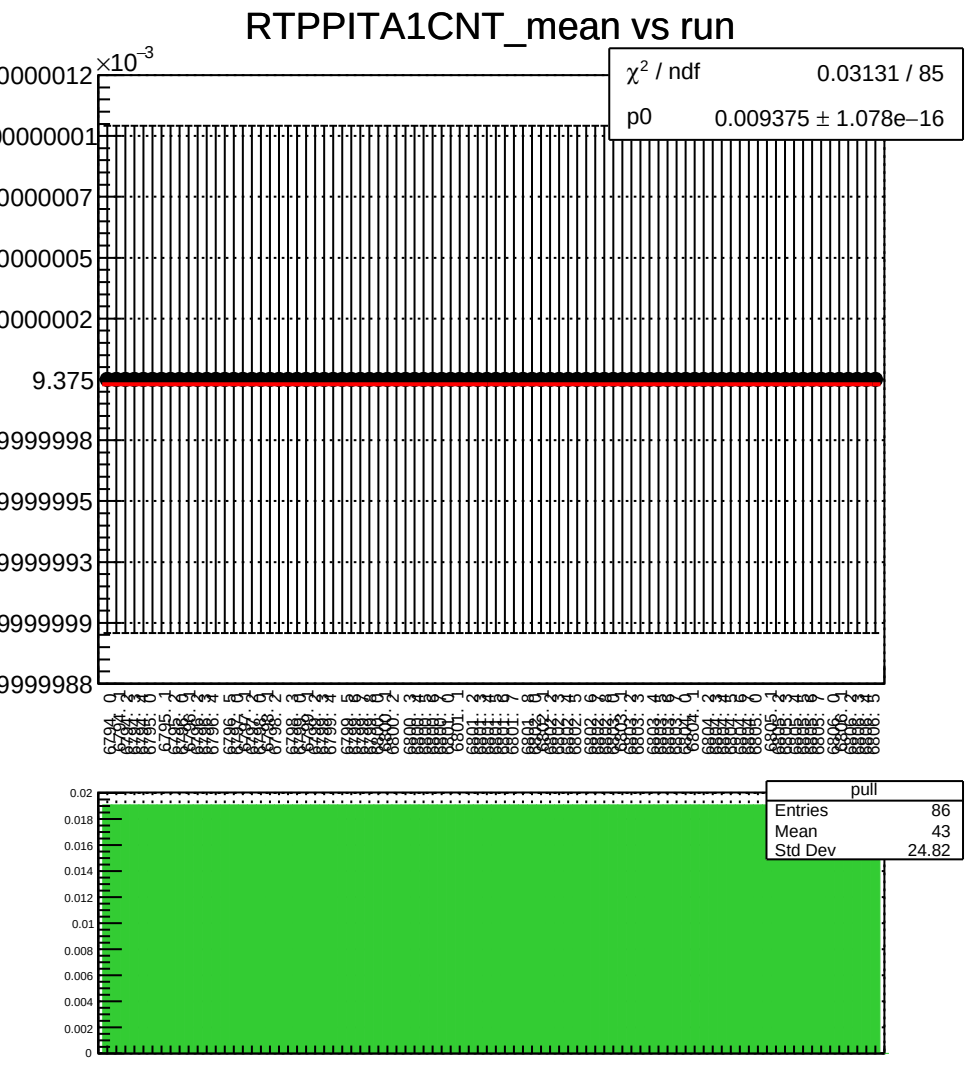

Phi_FG_mean vs run
χ² / ndf 2.101e+06 / 85
p0 88.02 ± 1.078e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 86
Mean 43
Std Dev 24.82
160
140
120
100
80
60
40
20
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

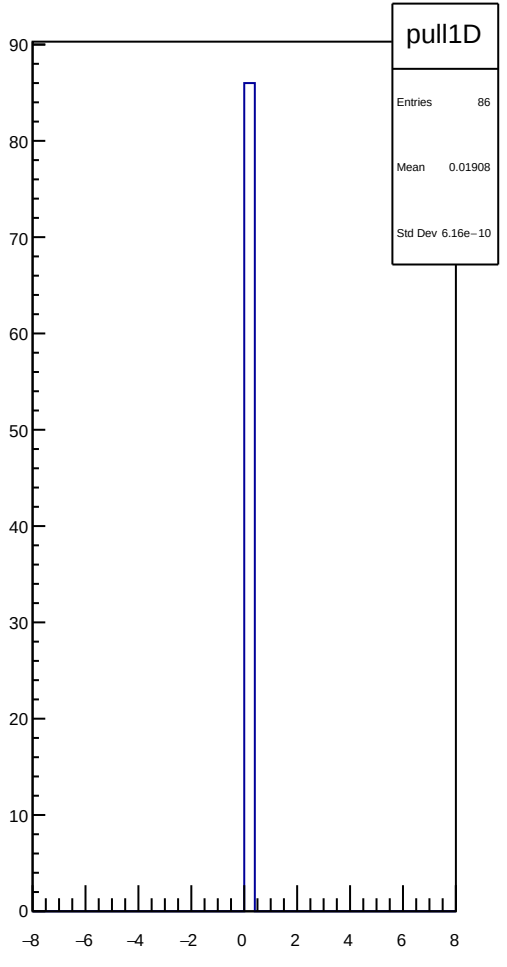

IGL1I00DI24_24M_mean vs run
χ² / ndf 0 / 85
p0 16.01± 1.078e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

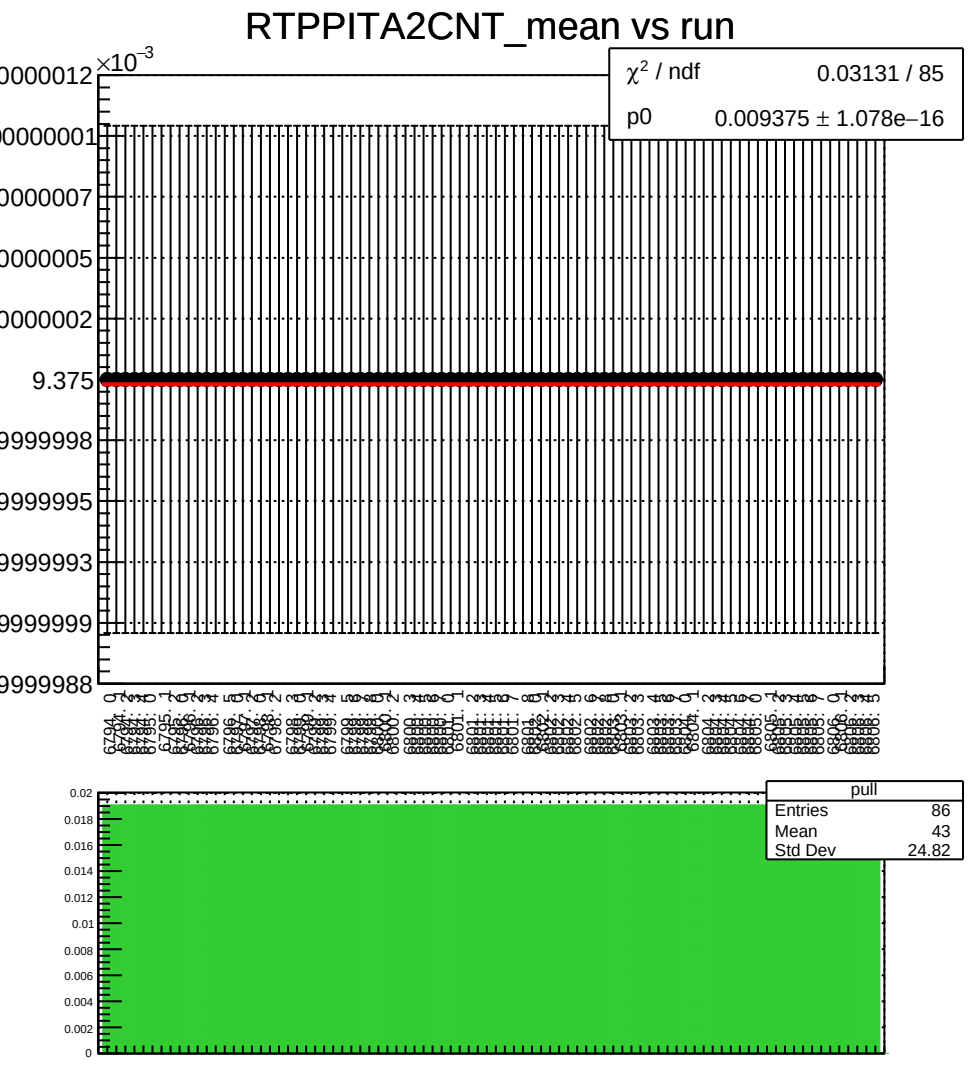

IGL1I00OD16_16_mean vs run
χ² / ndf 3.908e+04 / 85
p0 17.01± 1.078e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 86
Mean 43
Std Dev 24.82
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

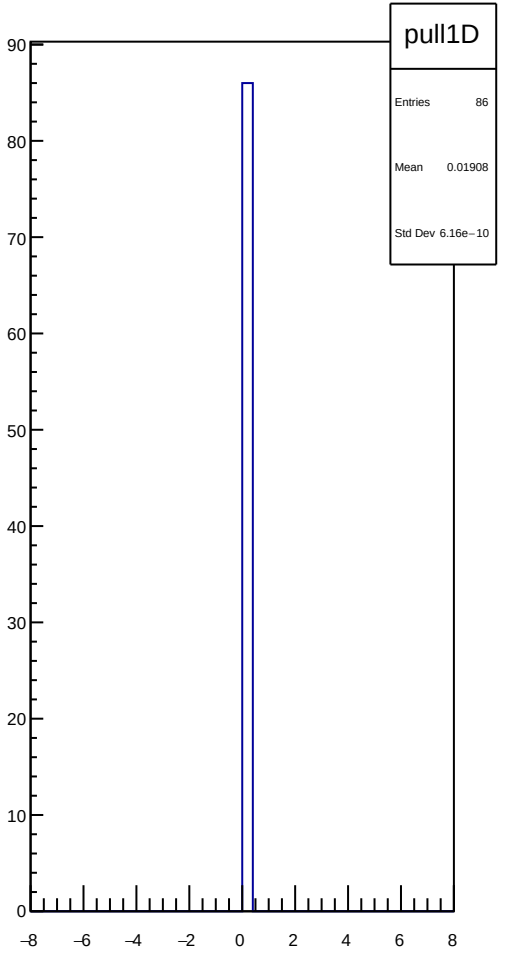

RTPAPOSUCNT_mean vs run
χ² / ndf 0 / 85
p0 913 ± 1.078e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 86
Mean 0
Std Dev 0
90
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 1.105e+28 / 85
p0 −1003 ± 1.078e−16
−1002.96
−1002.97
−1002.98
−1002.99
−1003
pull
Entries 86
Mean −1.457e+09
Std Dev 0
×10¹²
30
25
20
15
10
5
0
−5
−10
pull1D
Entries 86
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10


RTPPITA2CNT_mean vs run
χ² / ndf 0.03131 / 85
p0 0.009375 ± 1.078e−16
×10⁻³
pull
Entries 86
Mean 43
Std Dev 24.82


pull1D
Entries 86
Mean 0.01908
Std Dev 6.16e−10