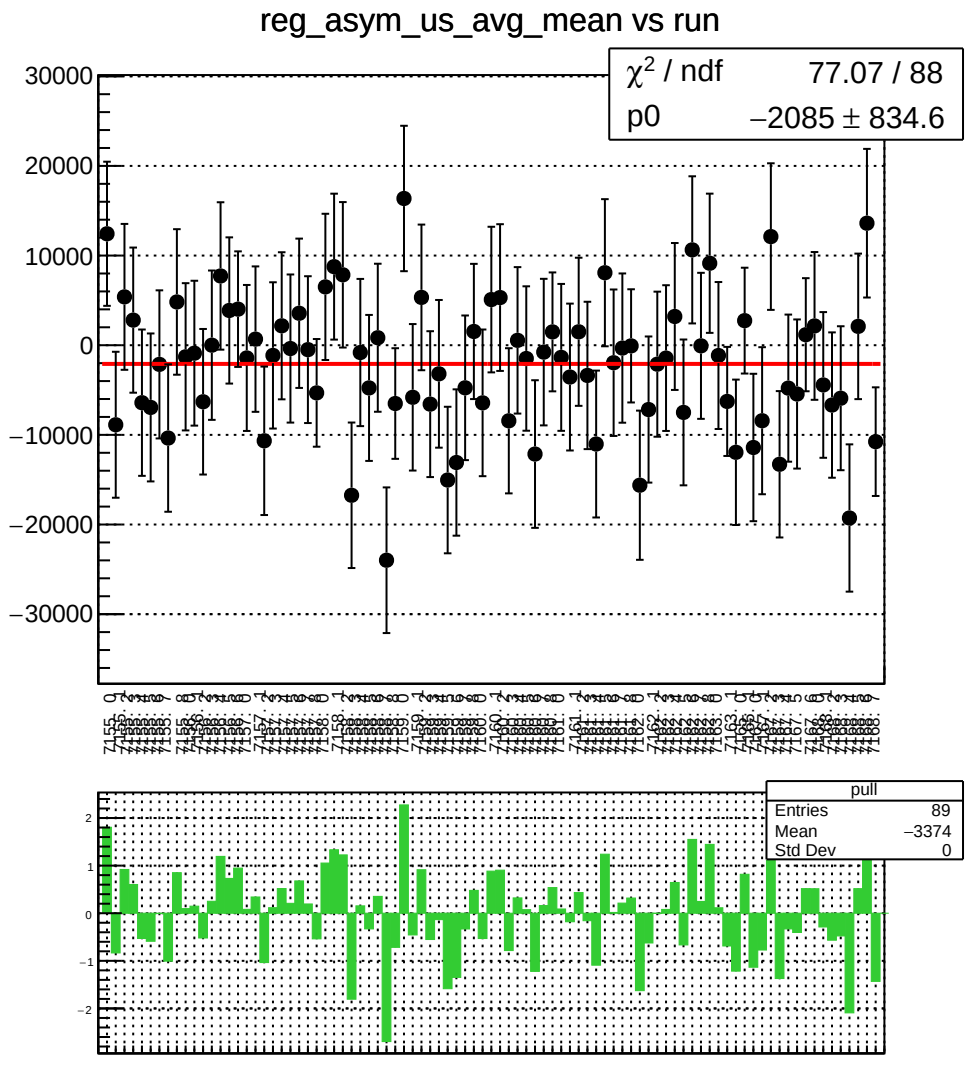
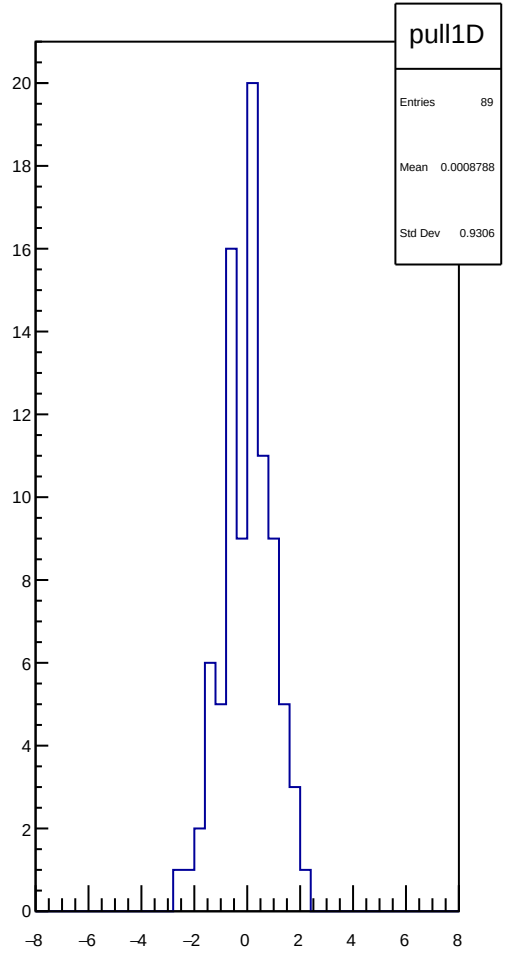
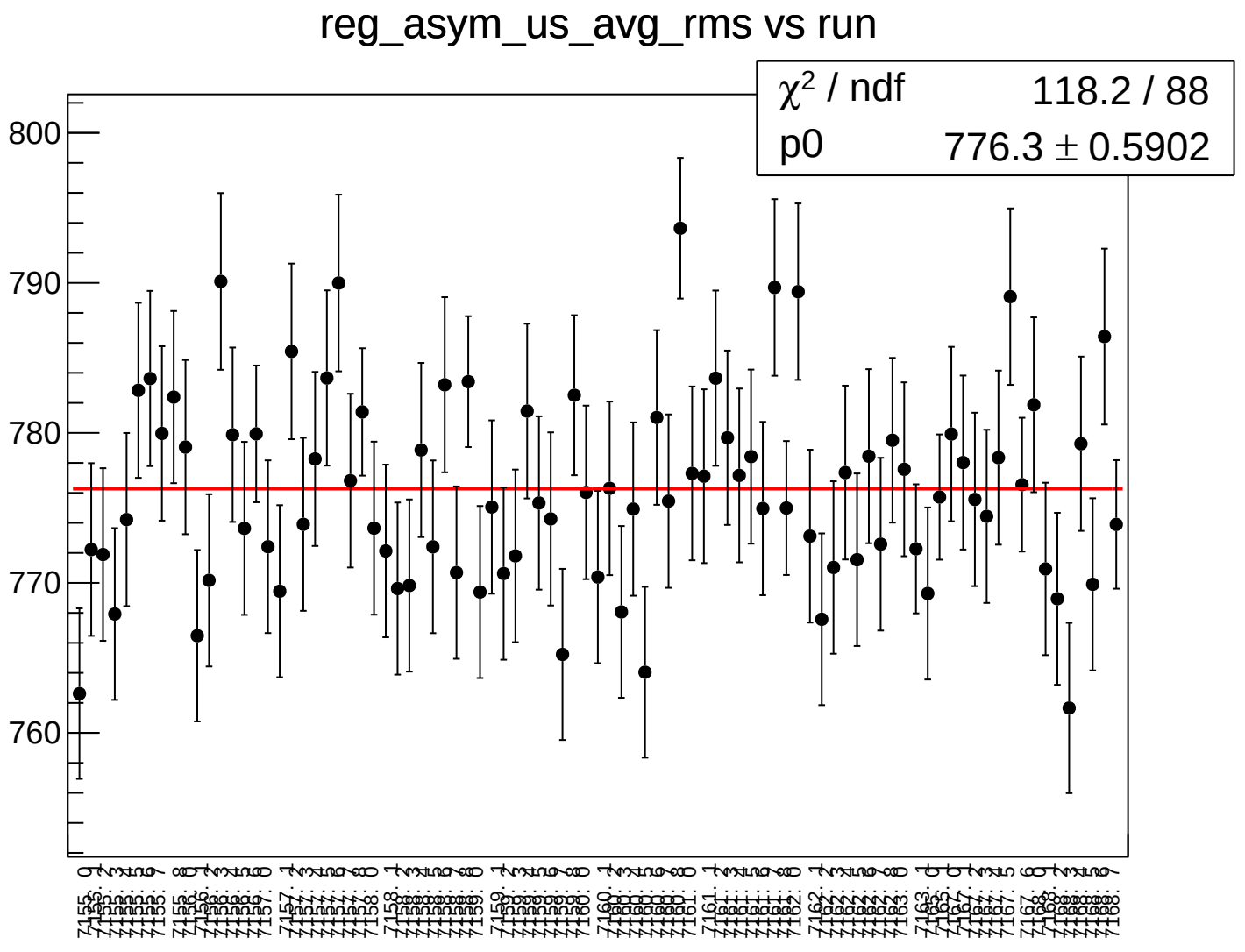
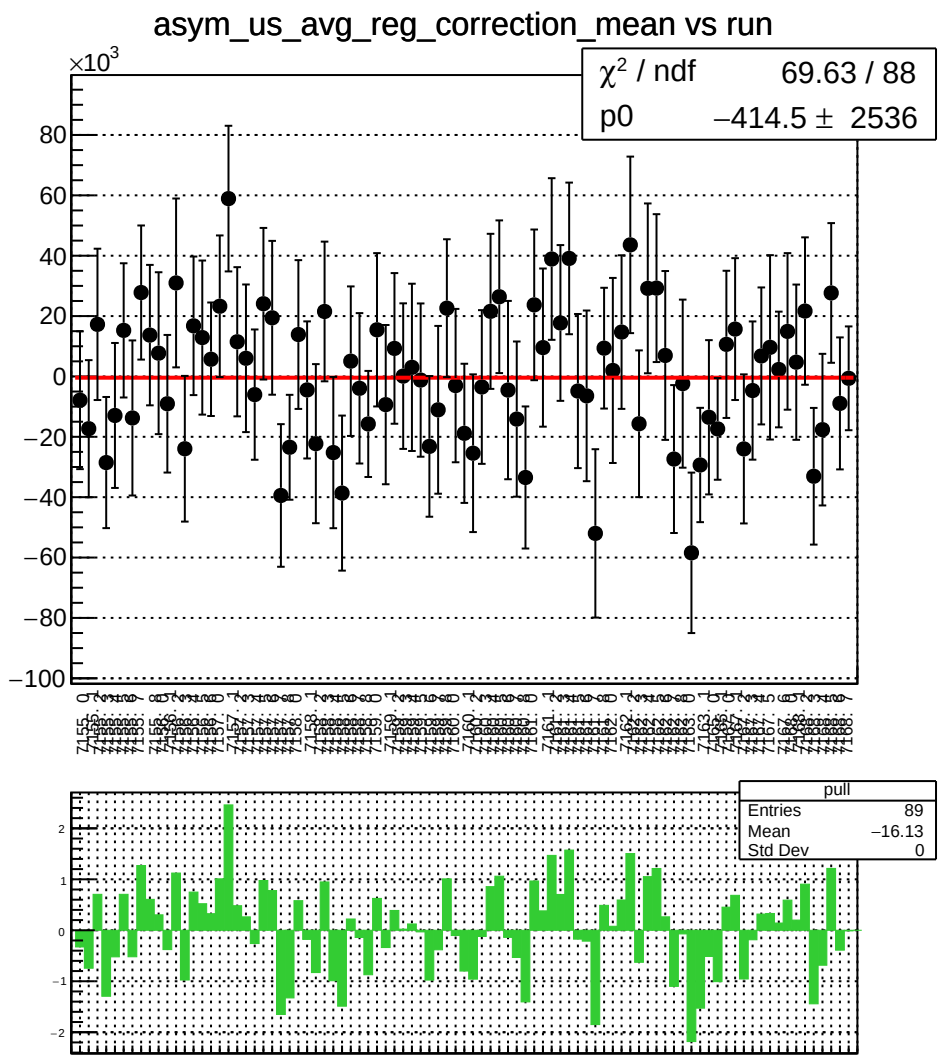
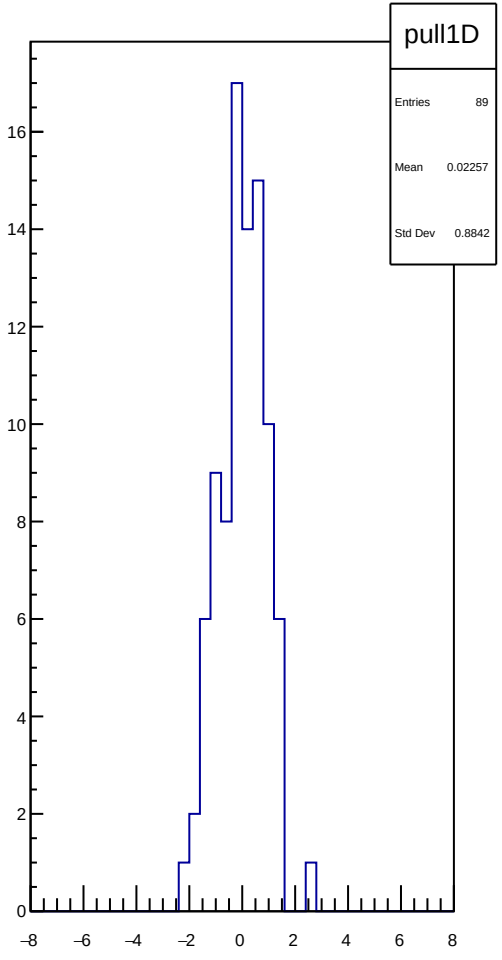
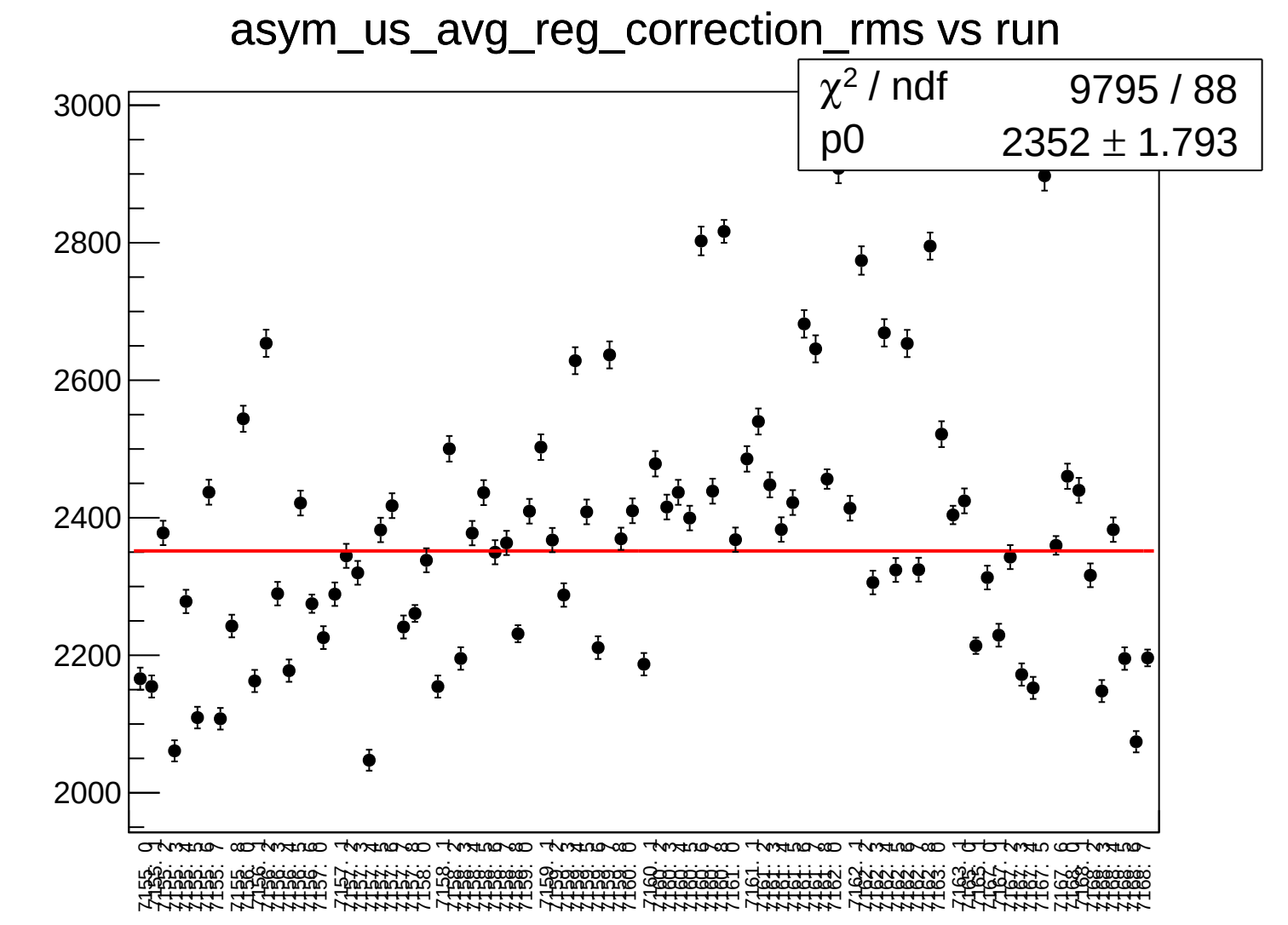

reg_asym_us_avg_mean vs run
χ² / ndf 77.07 / 88
p0 −2085 ± 834.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3374
Std Dev 0
2
1
0
−1
−2

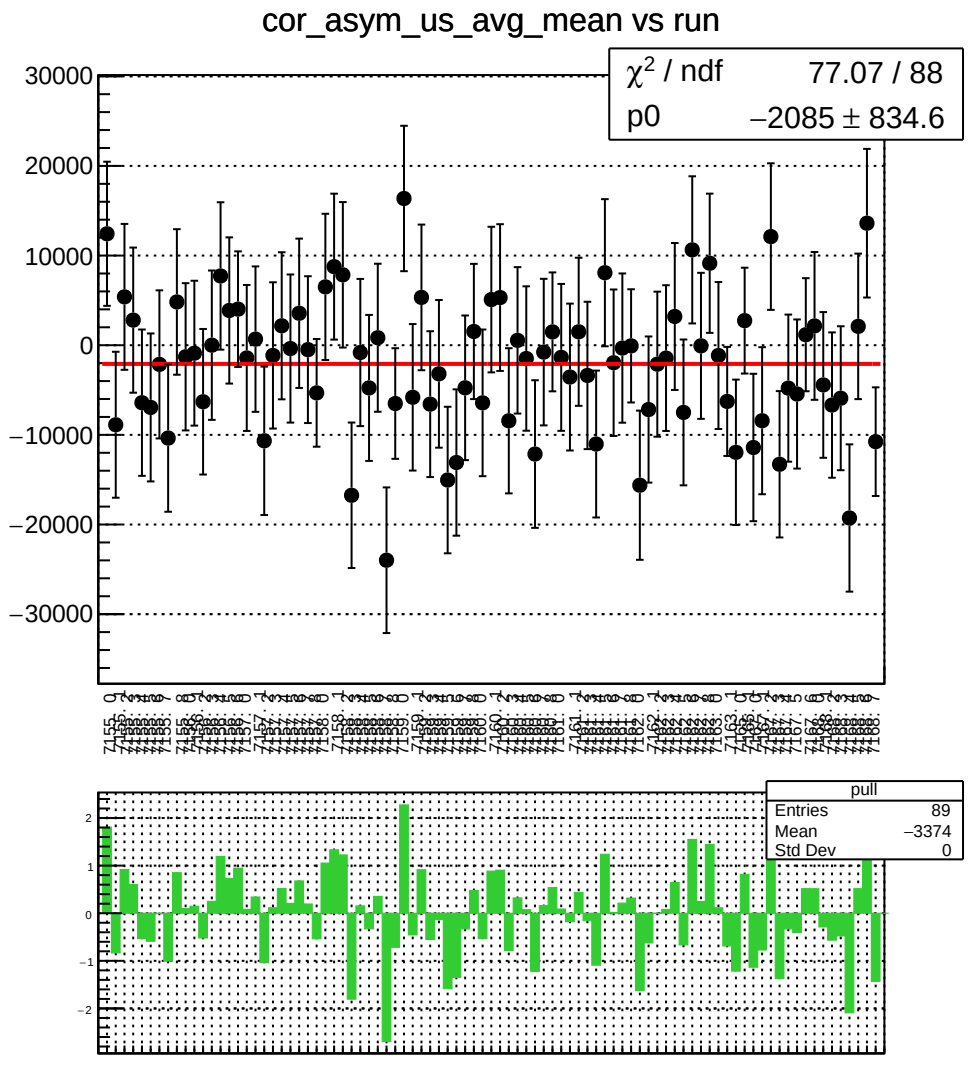

pull1D
Entries 89
Mean 0.0008788
Std Dev 0.9306
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

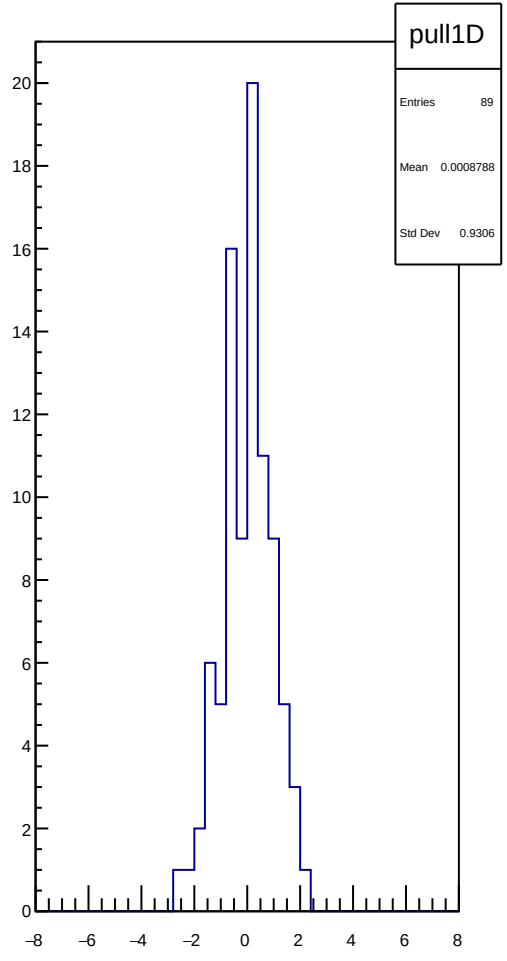

reg_asym_us_avg_rms vs run
χ^2 / ndf 118.2 / 88
p0 776.3 ± 0.5902
800
790
780
770
760

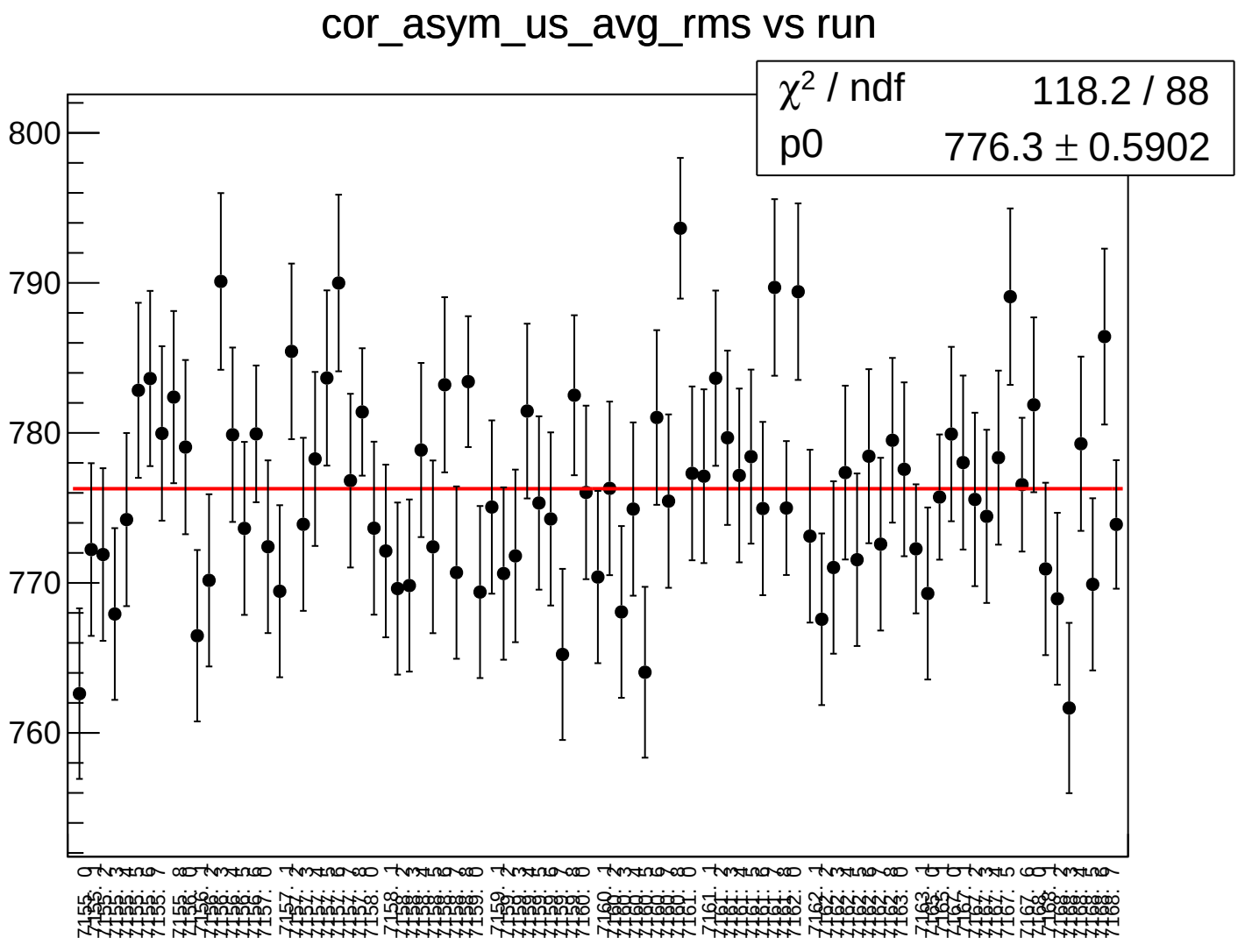

asym_us_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.63 / 88
p0 −414.5 ± 2536
pull
Entries 89
Mean −16.13
Std Dev 0

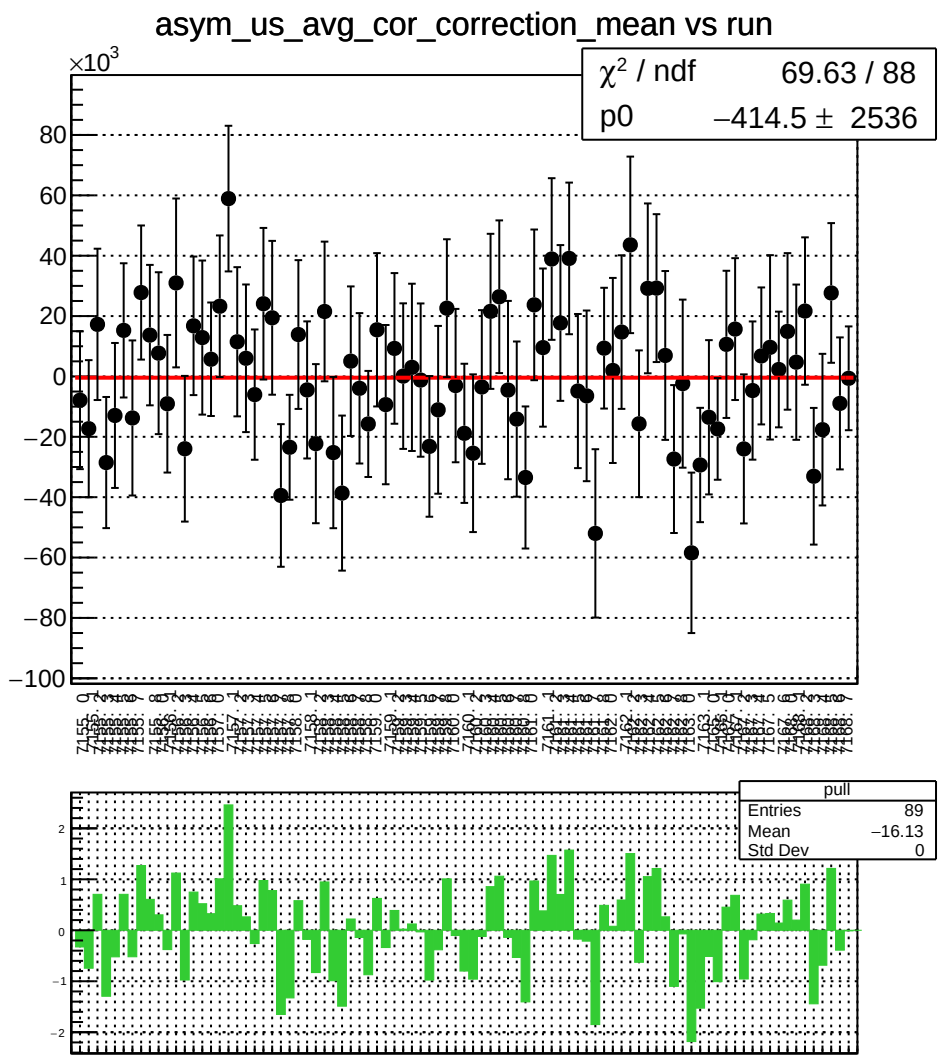

pull1D
Entries 89
Mean 0.02257
Std Dev 0.8842

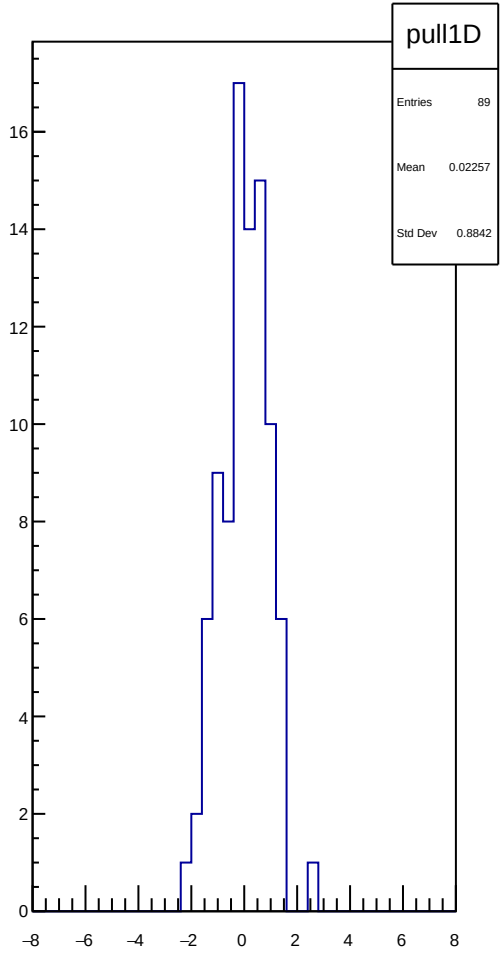

asym_us_avg_reg_correction_rms vs run
χ² / ndf 9795 / 88
p0 2352 ± 1.793
3000
2800
2600
2400
2200
2000

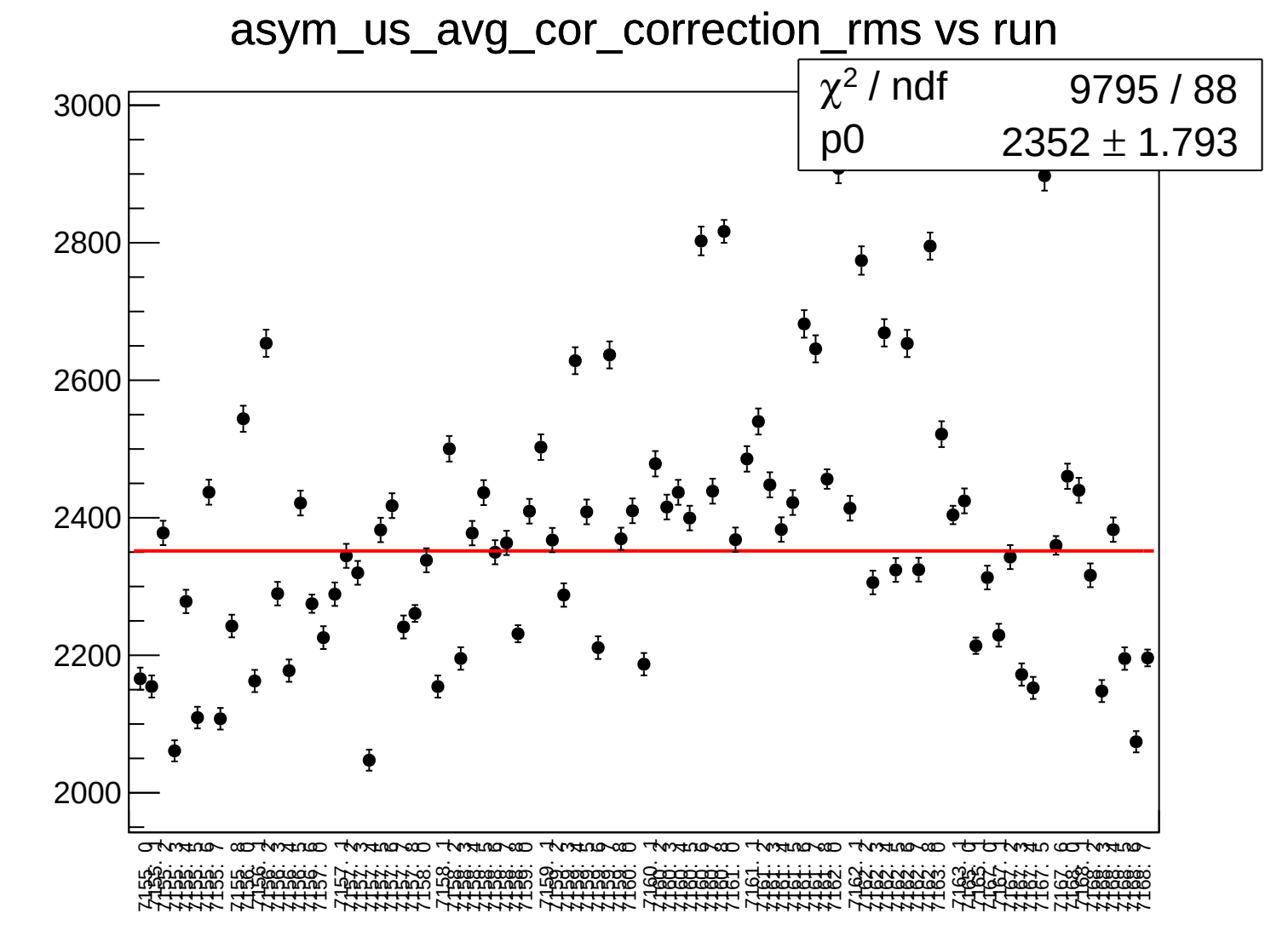

cor_asym_us_avg_mean vs run
χ² / ndf 77.07 / 88
p0 −2085 ± 834.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3374
Std Dev 0
2
1
0
−1
−2

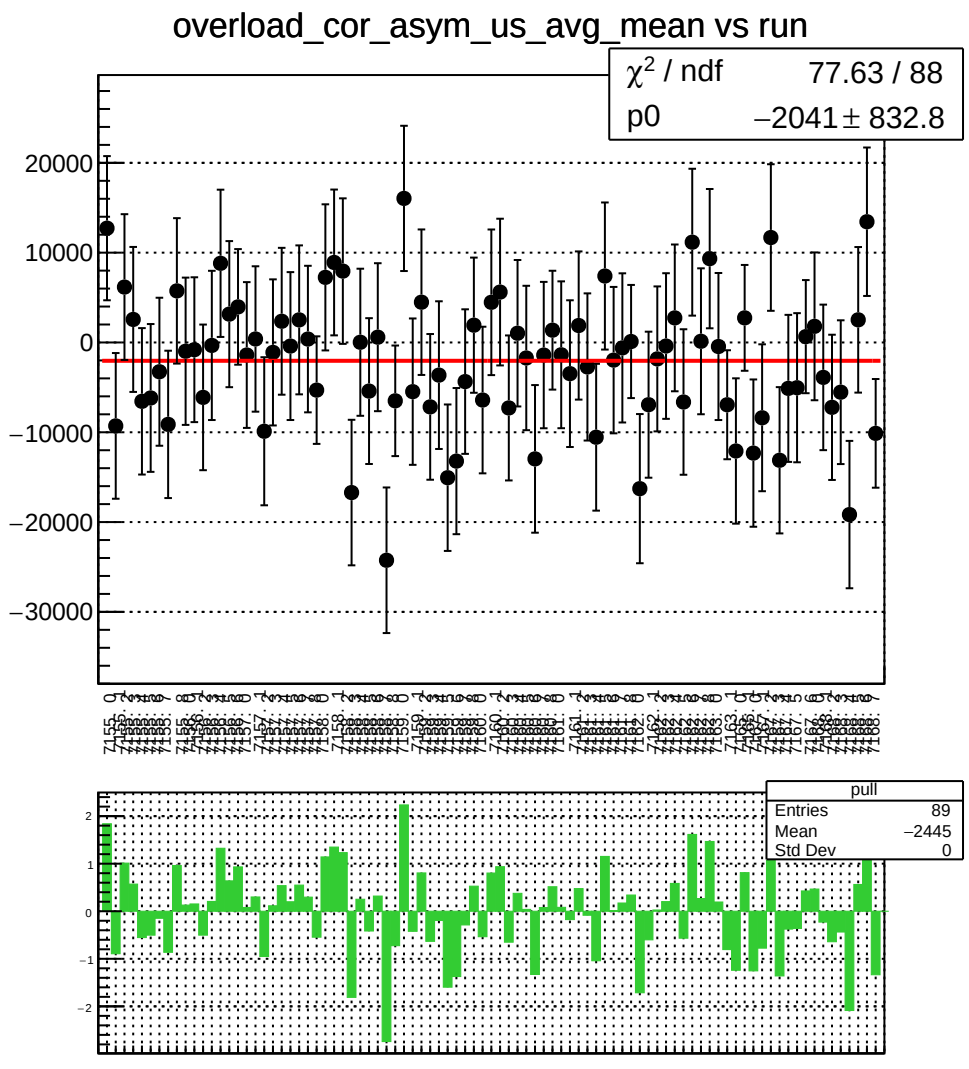

pull1D
Entries 89
Mean 0.0008788
Std Dev 0.9306
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

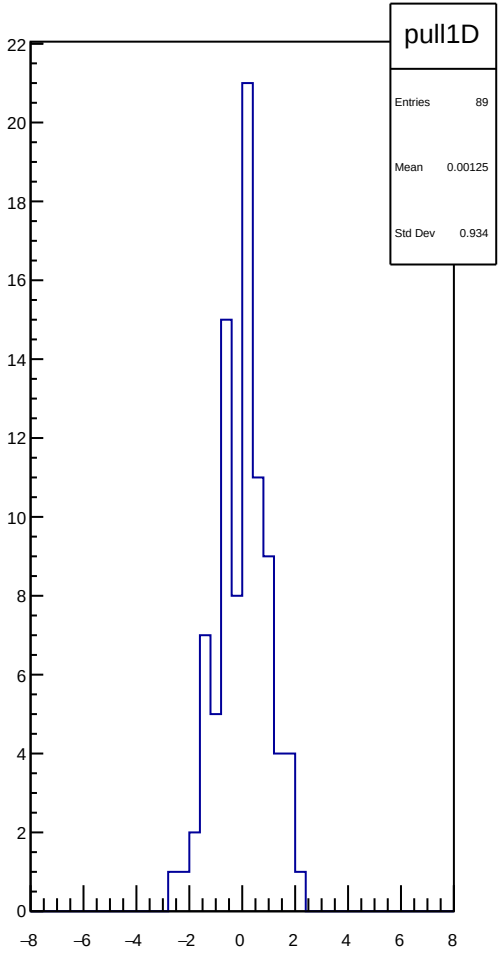

cor_asym_us_avg_rms vs run
χ^2 / ndf 118.2 / 88
p0 776.3 ± 0.5902
800
790
780
770
760

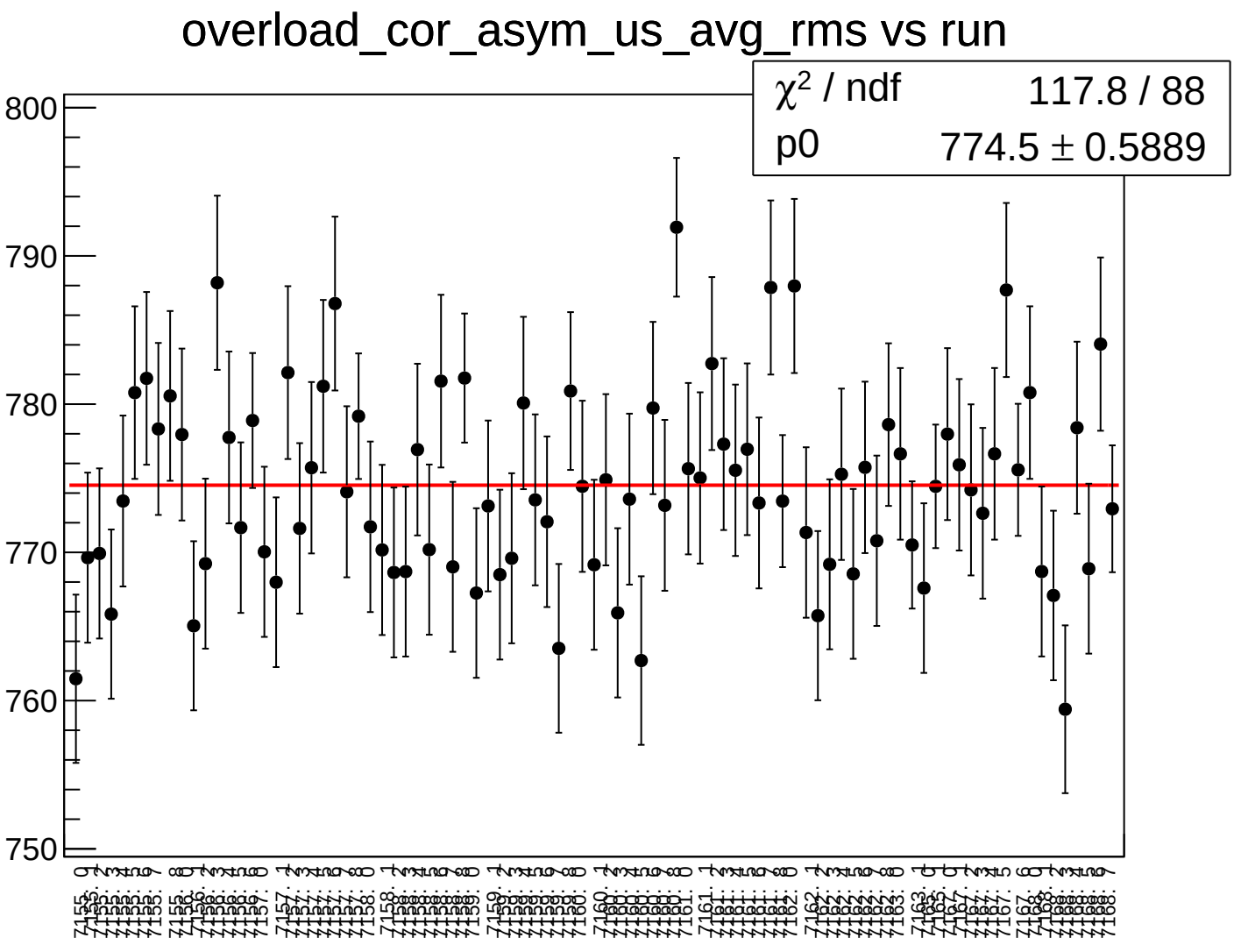

asym_us_avg_cor_correction_mean vs run
χ² / ndf 69.63 / 88
p0 −414.5 ± 2536
×10³
pull
Entries 89
Mean −16.13
Std Dev 0

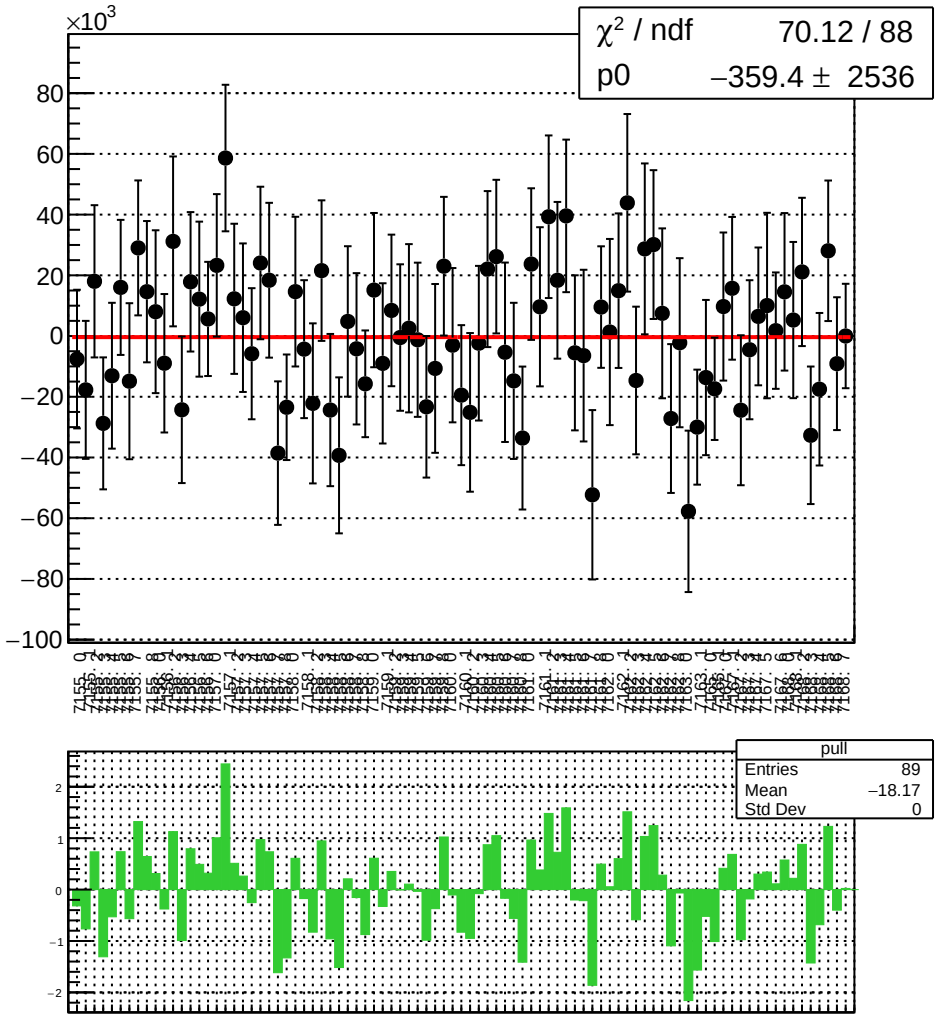

pull1D
Entries 89
Mean 0.02257
Std Dev 0.8842

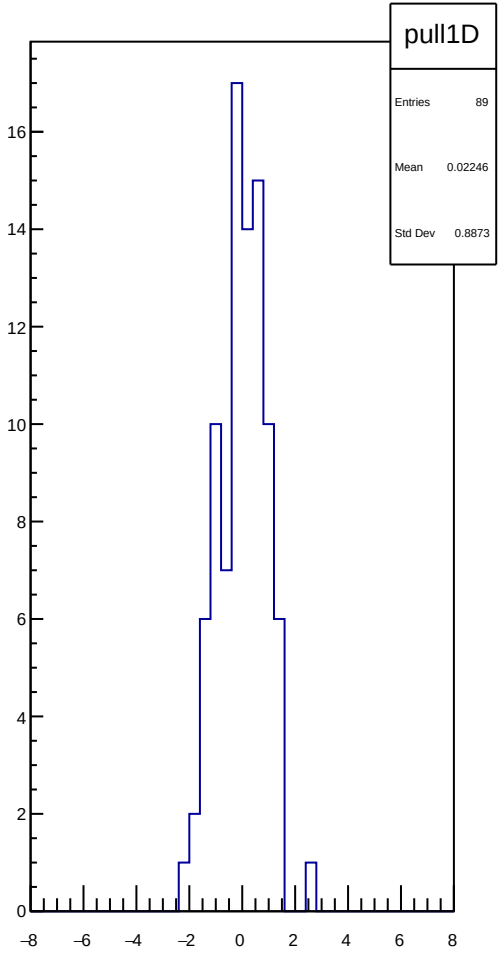

asym_us_avg_cor_correction_rms vs run
χ² / ndf 9795 / 88
p0 2352 ± 1.793
3000
2800
2600
2400
2200
2000

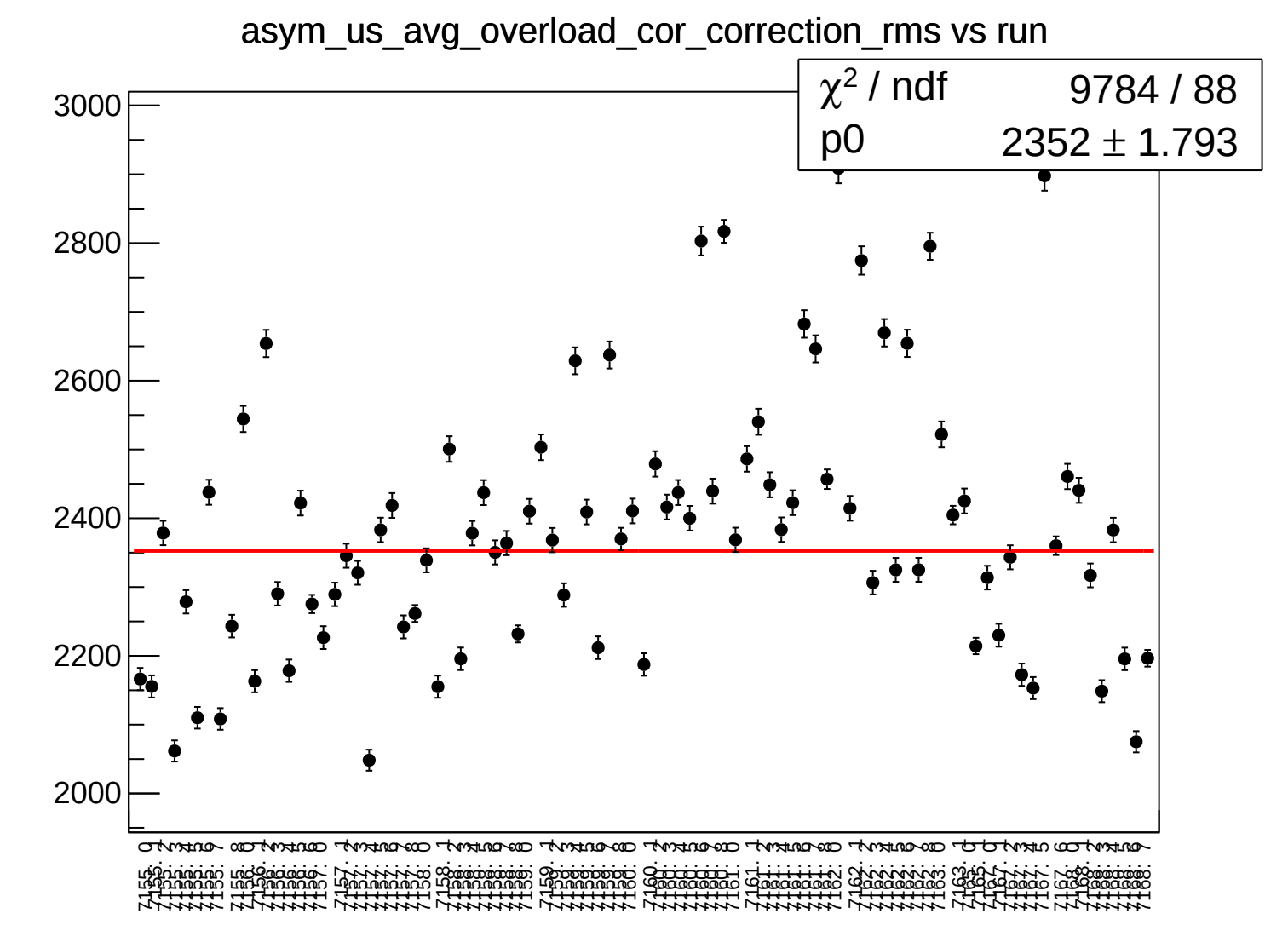

overload_cor_asym_us_avg_mean vs run
χ² / ndf 77.63 / 88
p0 −2041 ± 832.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −2445
Std Dev 0
2
1
0
−1
−2

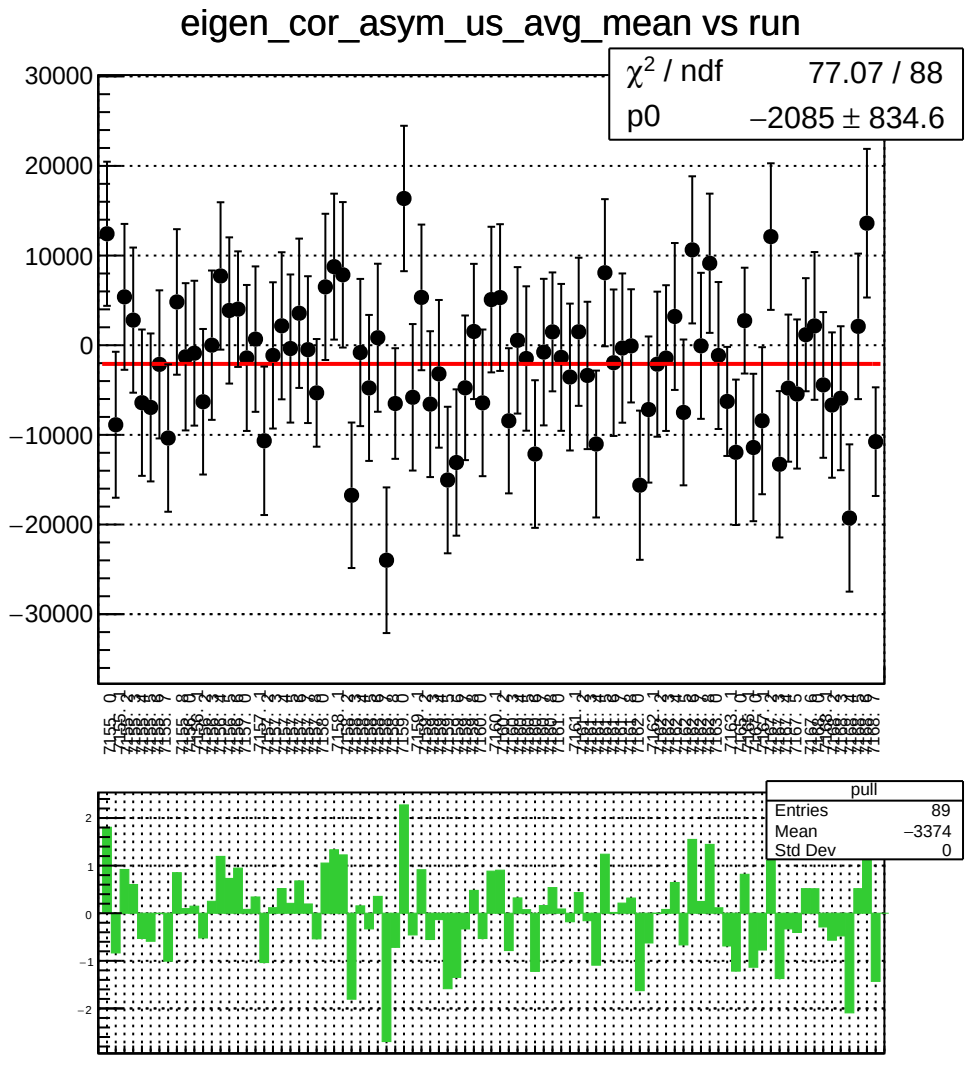

pull1D
Entries 89
Mean 0.00125
Std Dev 0.934
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

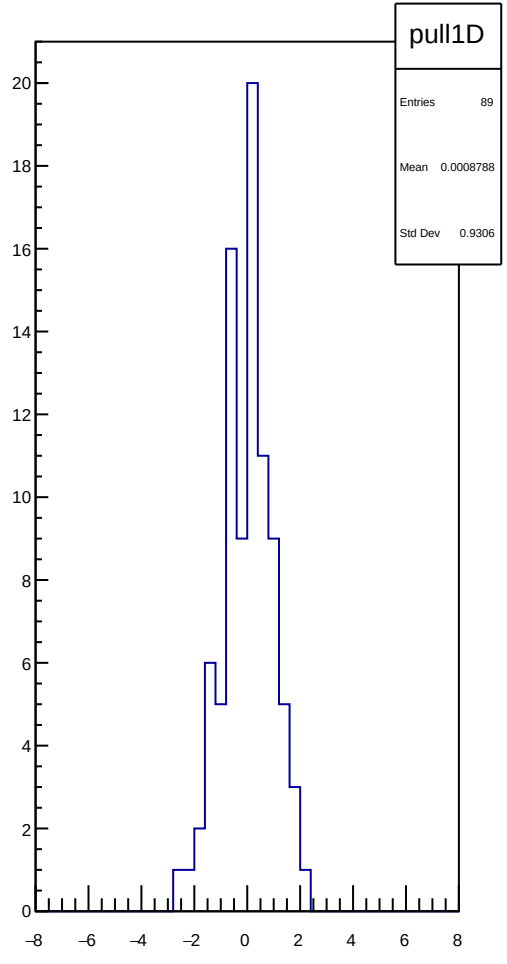

overload_cor_asym_us_avg_rms vs run
χ² / ndf 117.8 / 88
p0 774.5 ± 0.5889
800
790
780
770
760
750


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 70.12 / 88
p0 −359.4 ± 2536
×10³
pull
Entries 89
Mean −18.17
Std Dev 0


pull1D
Entries 89
Mean 0.02246
Std Dev 0.8873


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 9784 / 88
p0 2352 ± 1.793
3000
2800
2600
2400
2200
2000


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 77.07 / 88
p0 −2085 ± 834.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −3374
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 89
Mean 0.0008788
Std Dev 0.9306
20
18
16
14
12
10
8
6
4
2
0
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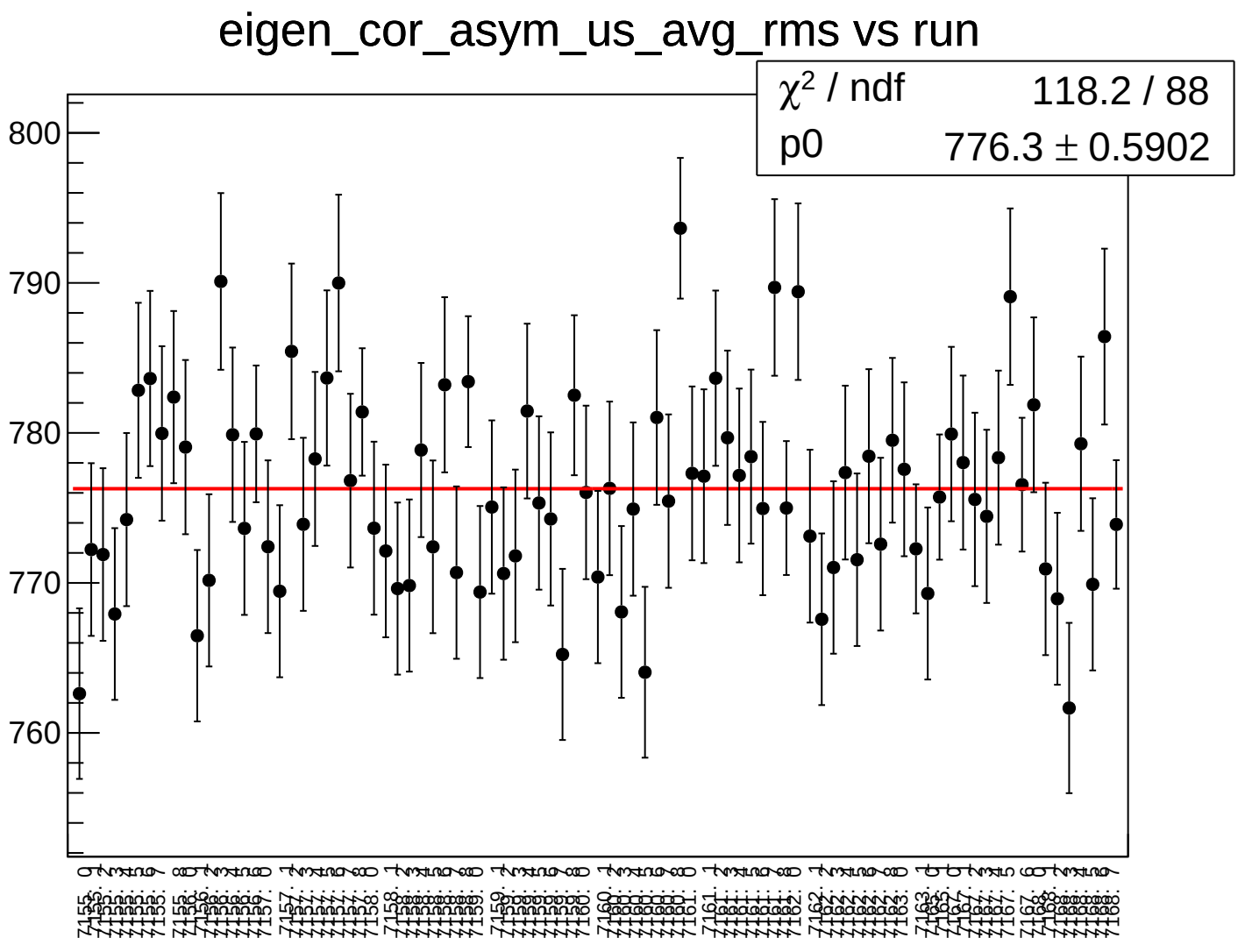
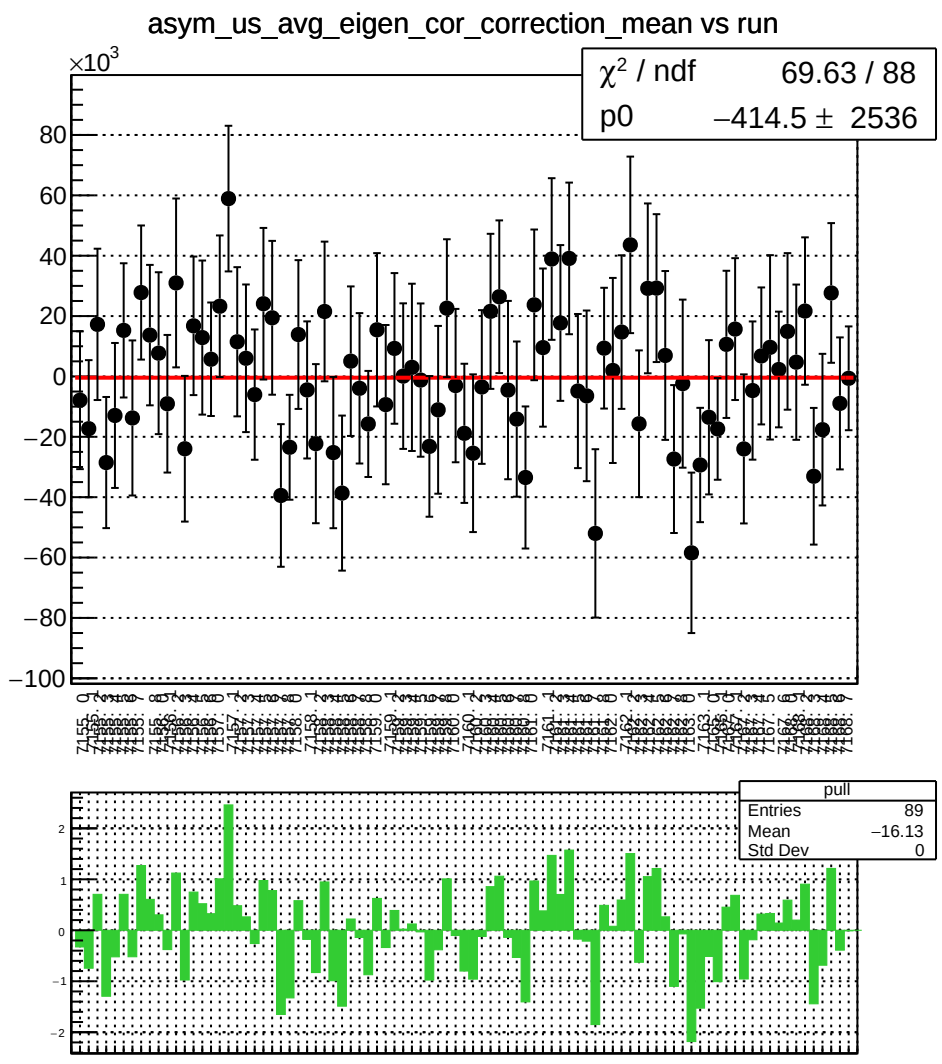
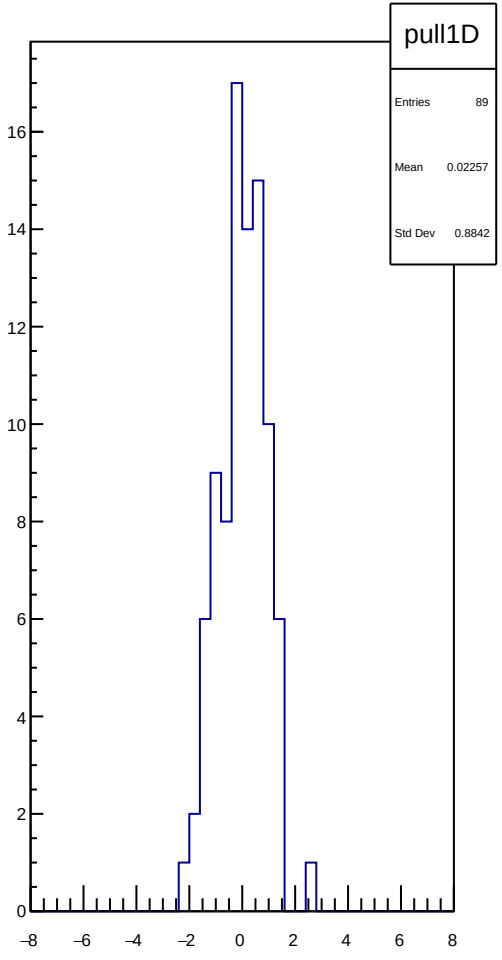
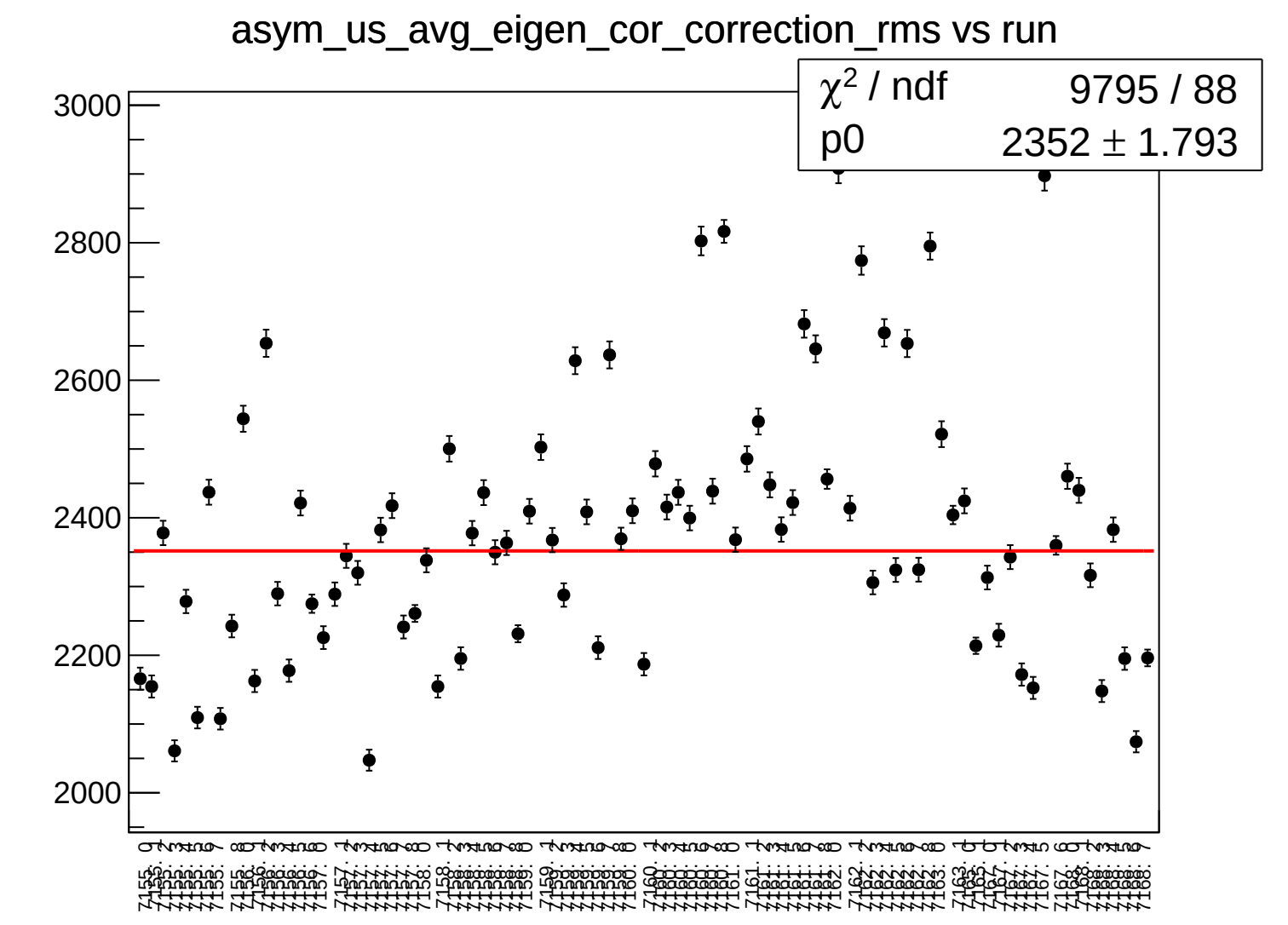
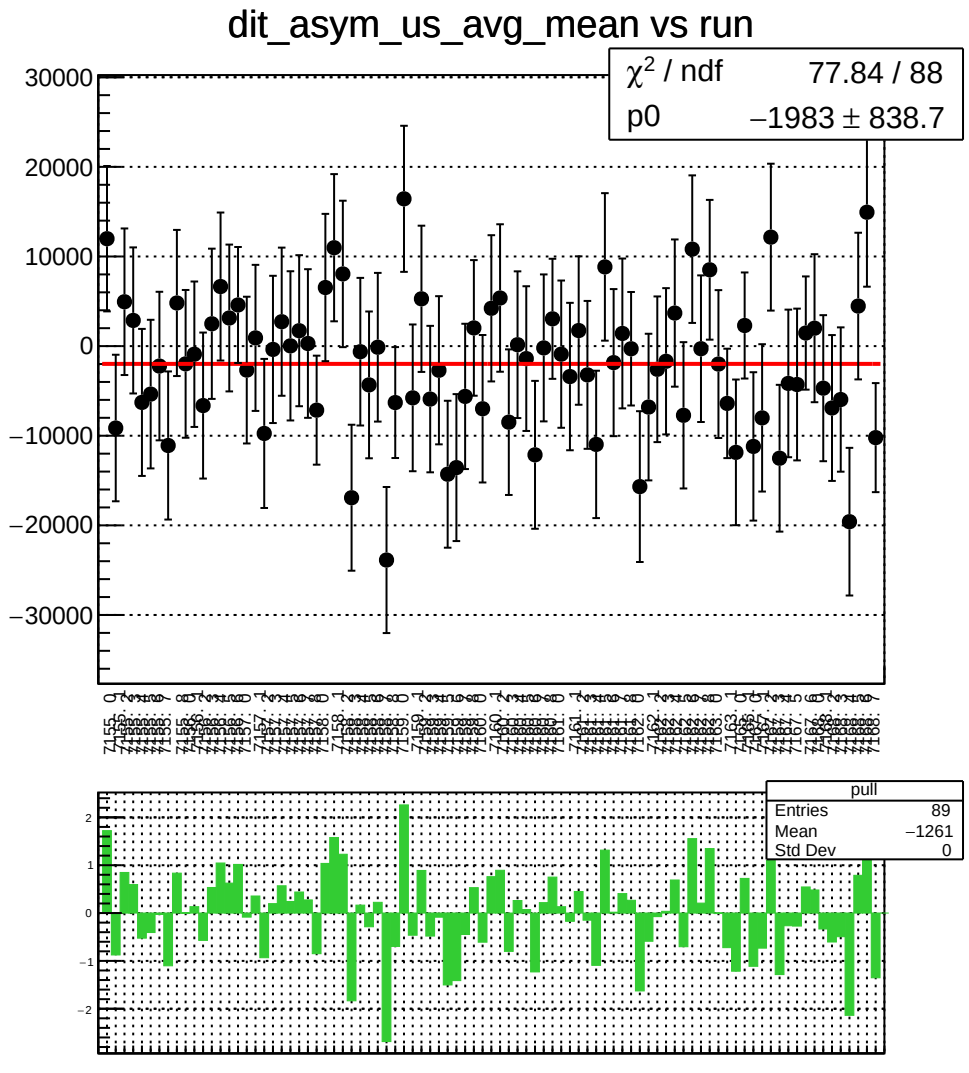
−6
−4
−2
0
2
4
6
8

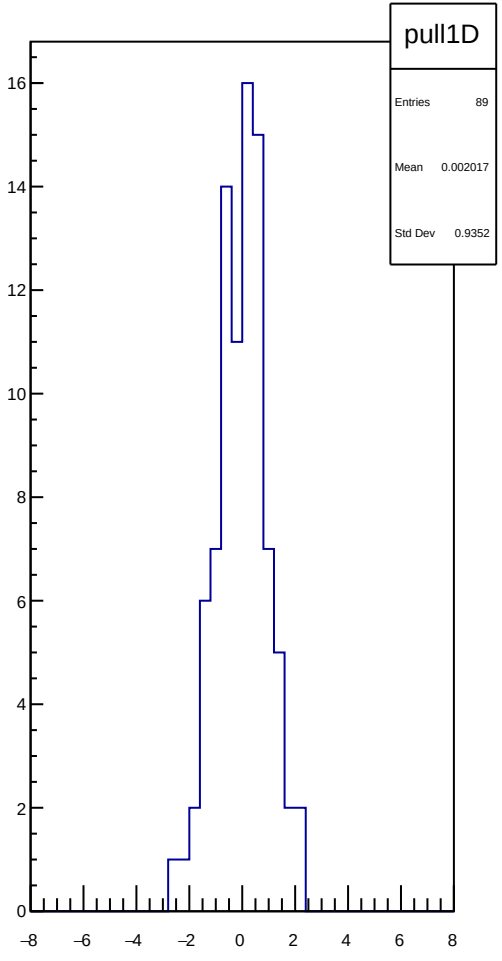

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 118.2 / 88
p0 776.3 ± 0.5902
800
790
780
770
760

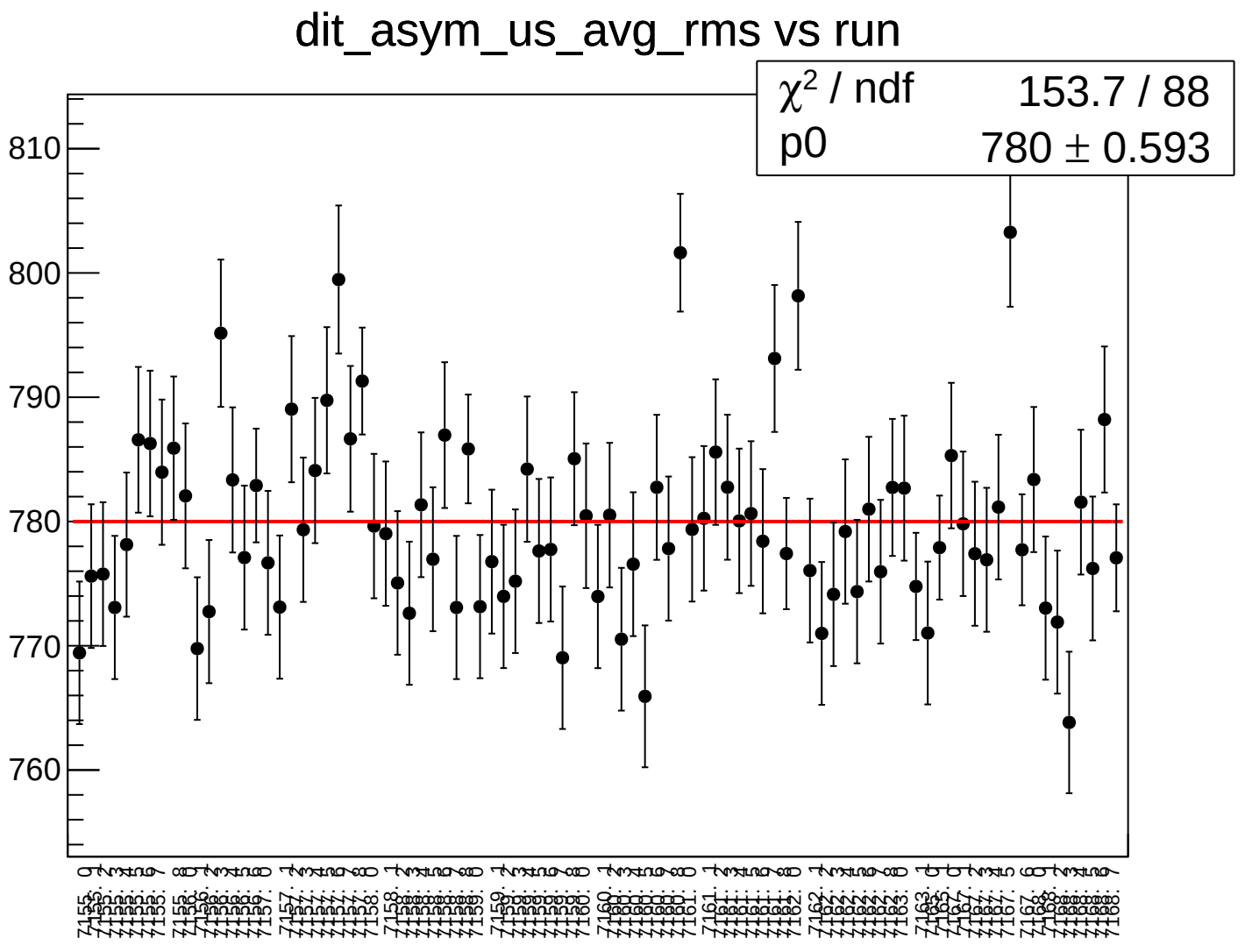

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.63 / 88
p0 −414.5 ± 2536
×10³
pull
Entries 89
Mean −16.13
Std Dev 0

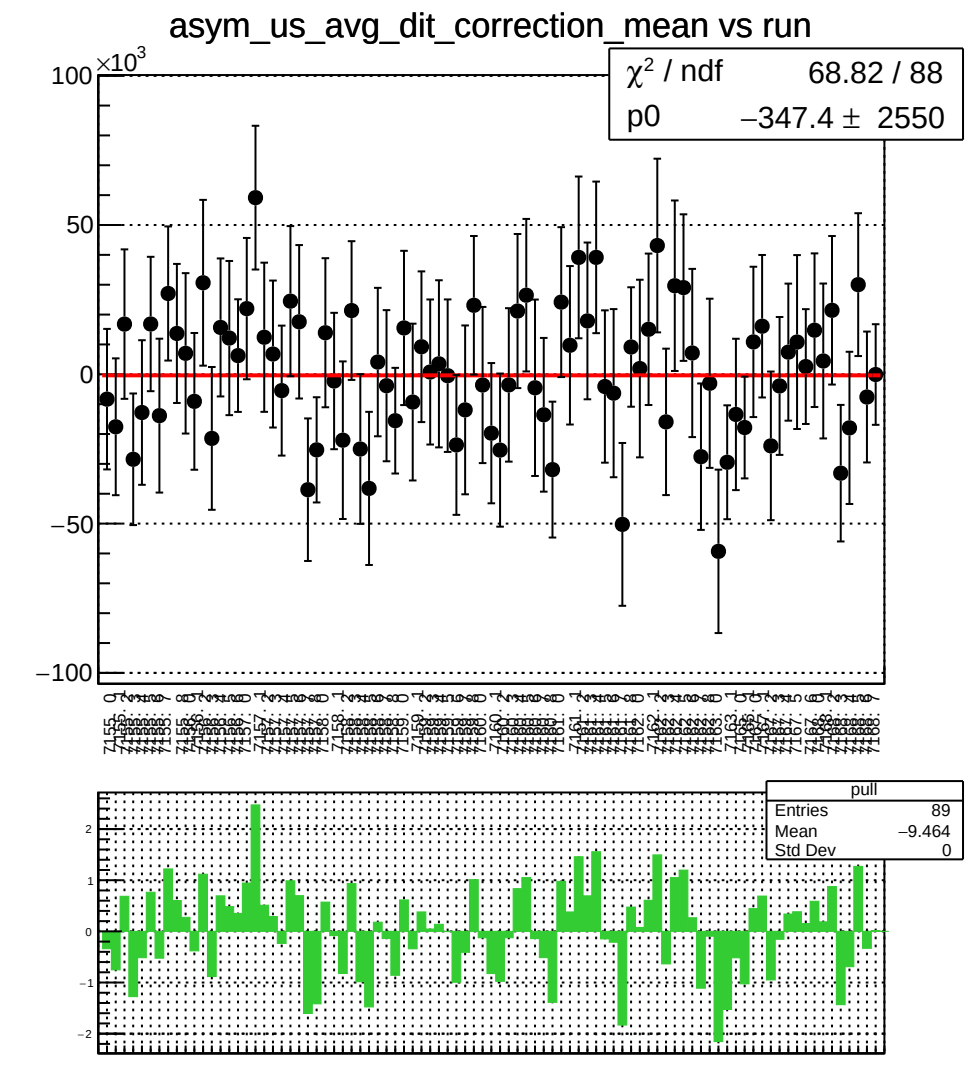

pull1D
Entries 89
Mean 0.02257
Std Dev 0.8842

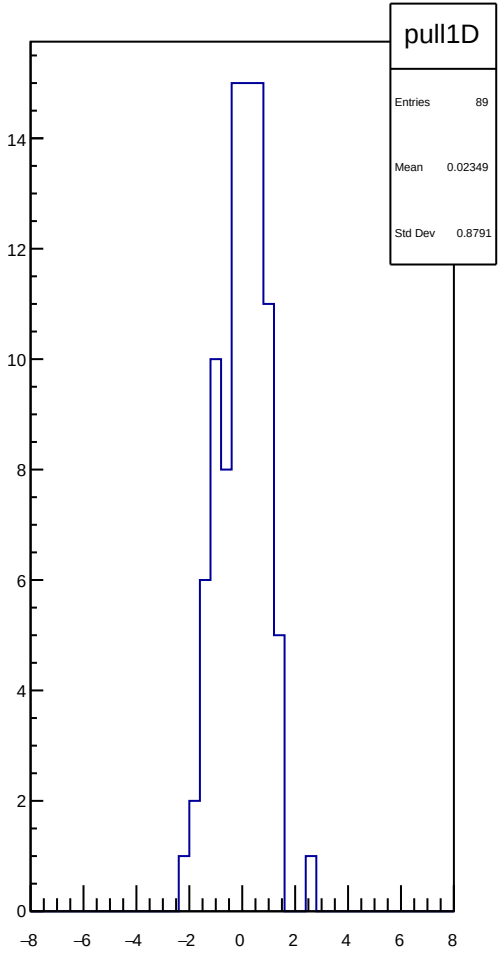

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 9795 / 88
p0 2352 ± 1.793
3000
2800
2600
2400
2200
2000

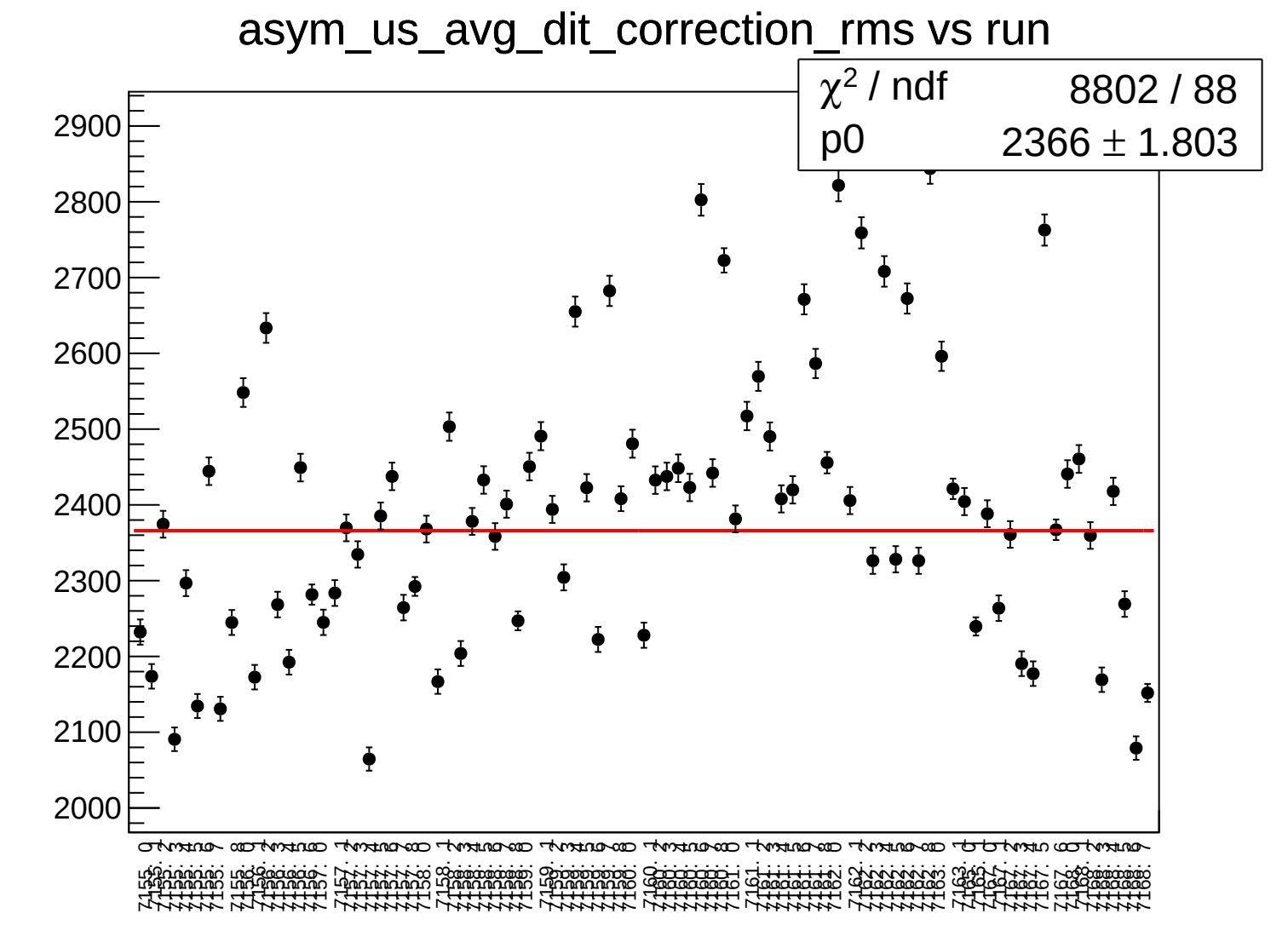

dit_asym_us_avg_mean vs run
χ² / ndf 77.84 / 88
p0 −1983 ± 838.7
pull
Entries 89
Mean −1261
Std Dev 0

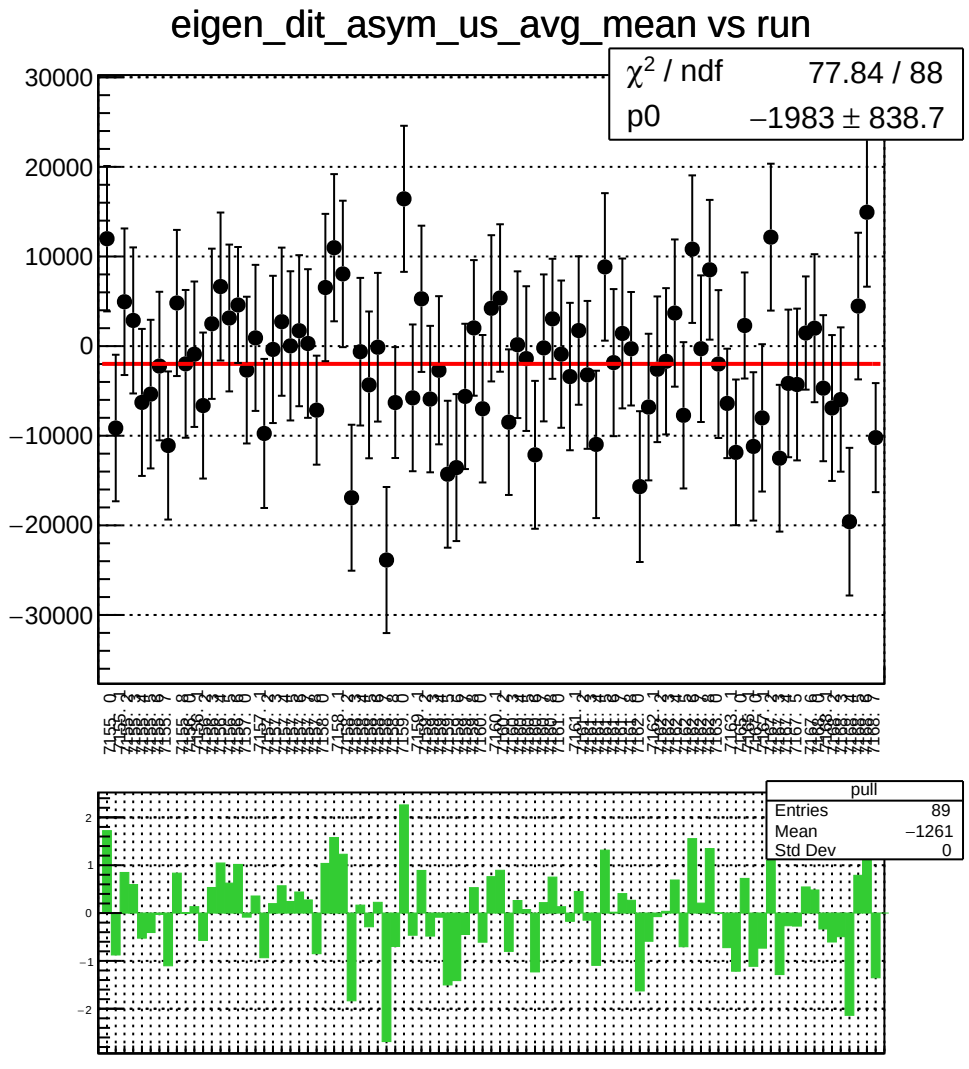

pull1D
Entries 89
Mean 0.002017
Std Dev 0.9352

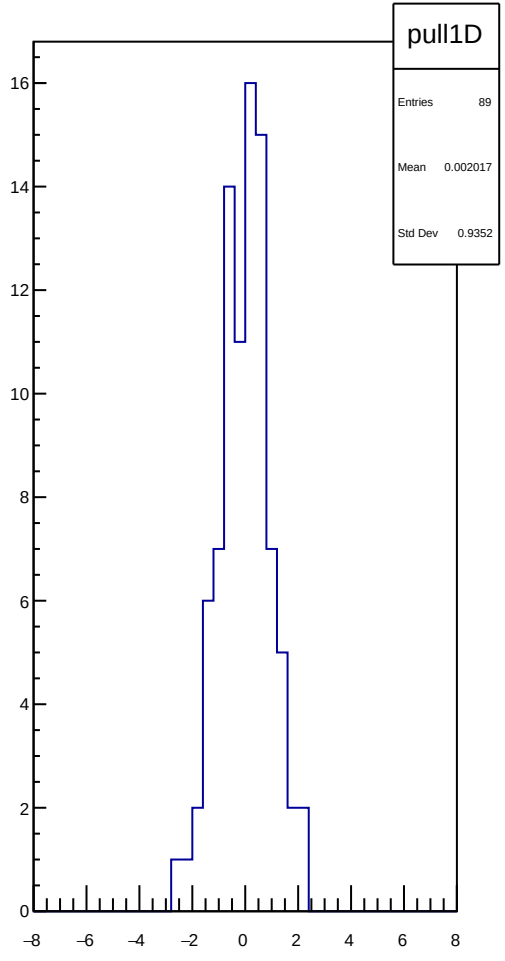

dit_asym_us_avg_rms vs run
χ² / ndf 153.7 / 88
p0 780 ± 0.593
810
800
790
780
770
760

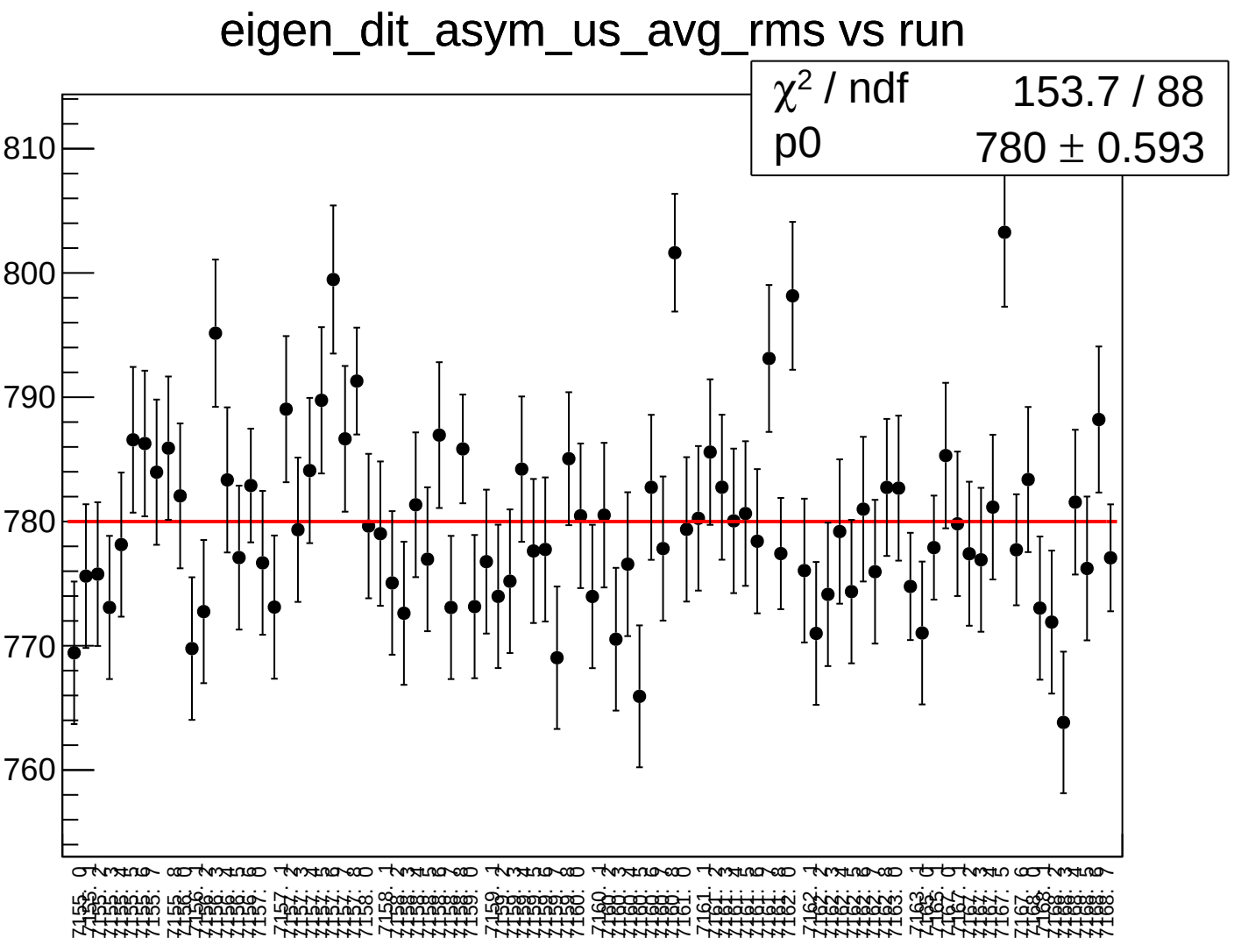

asym_us_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 −347.4 ± 2550
pull
Entries 89
Mean −9.464
Std Dev 0

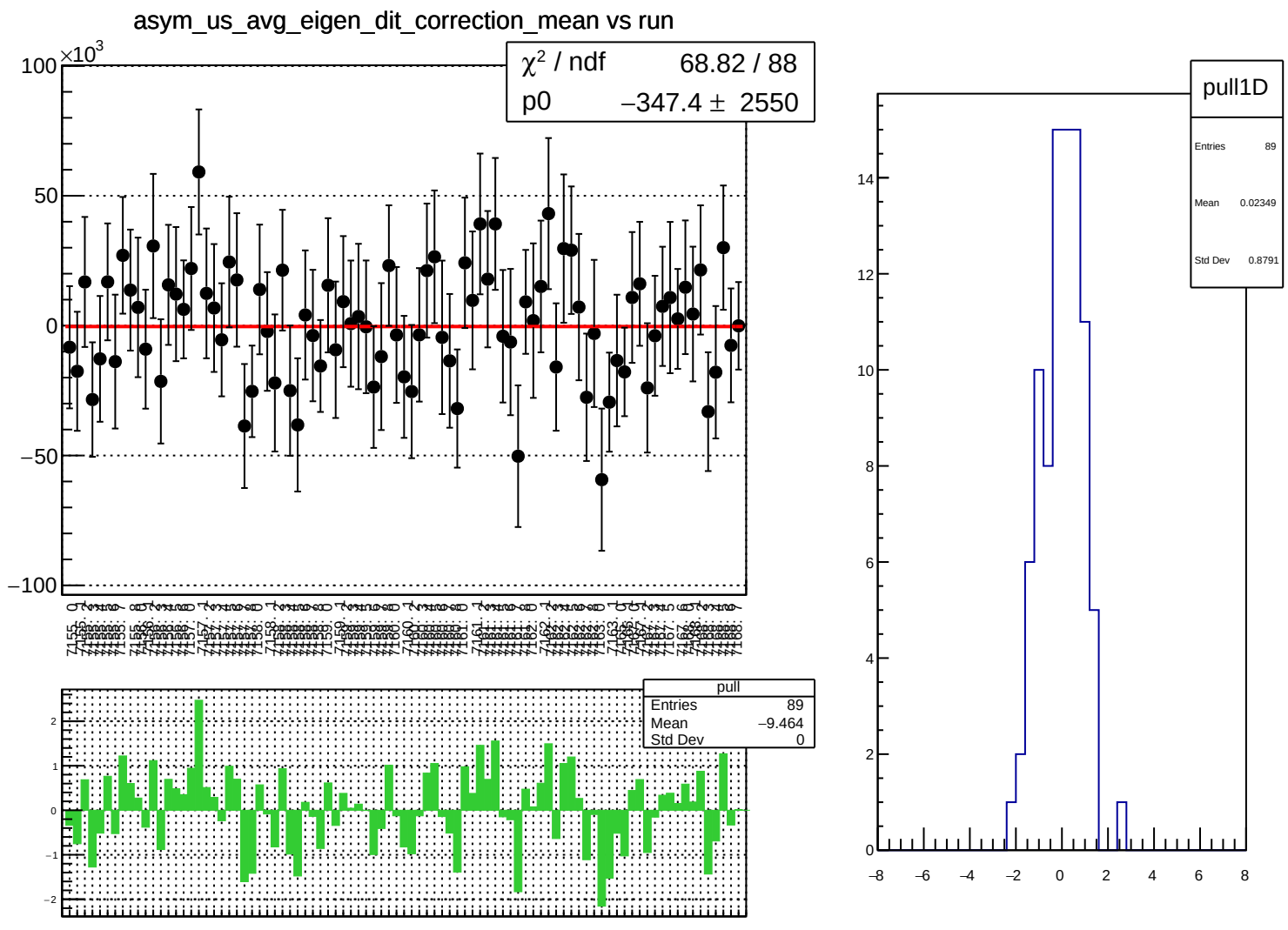

pull1D
Entries 89
Mean 0.02349
Std Dev 0.8791

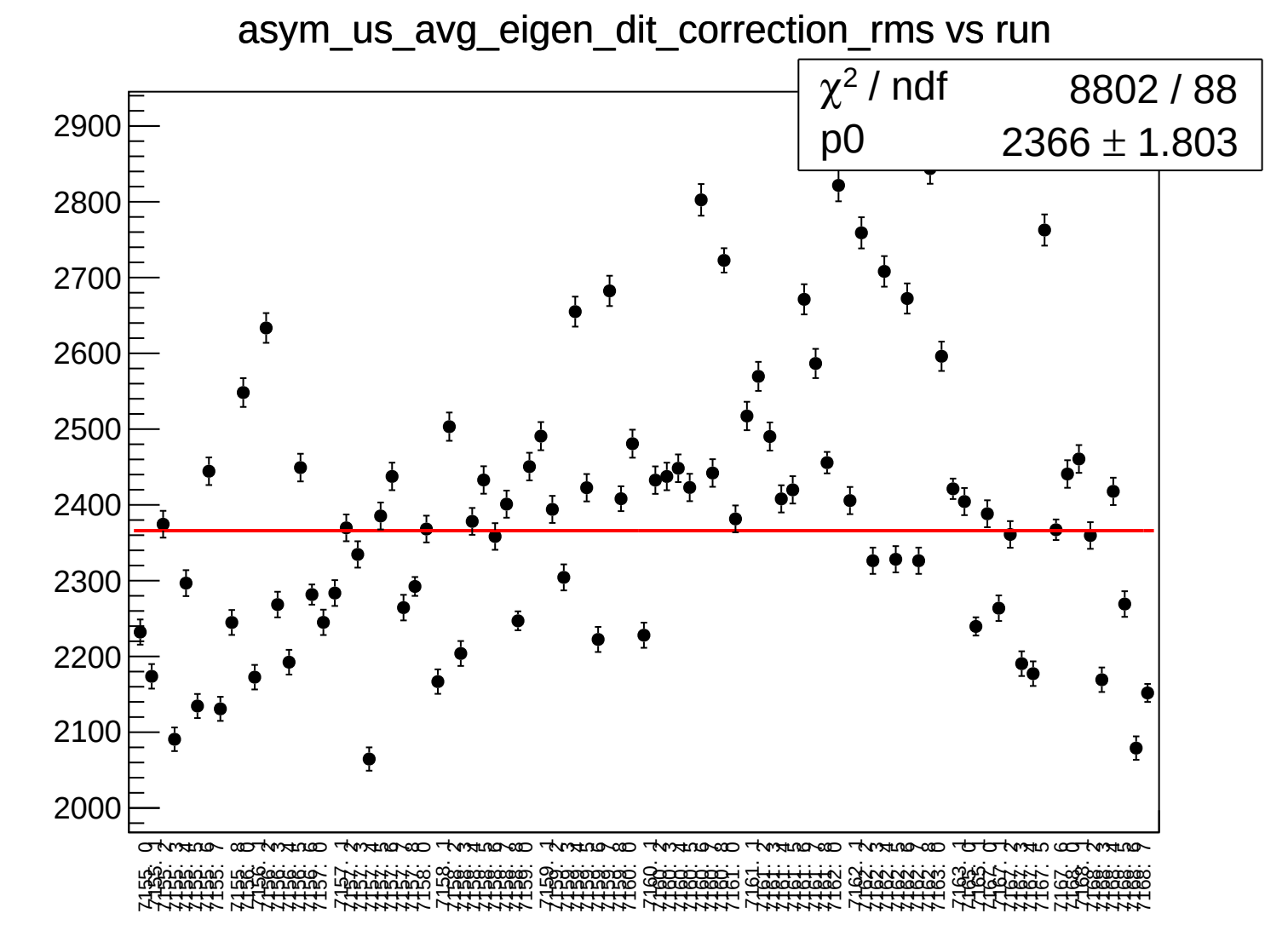

asym_us_avg_dit_correction_rms vs run
χ² / ndf 8802 / 88
p0 2366 ± 1.803
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

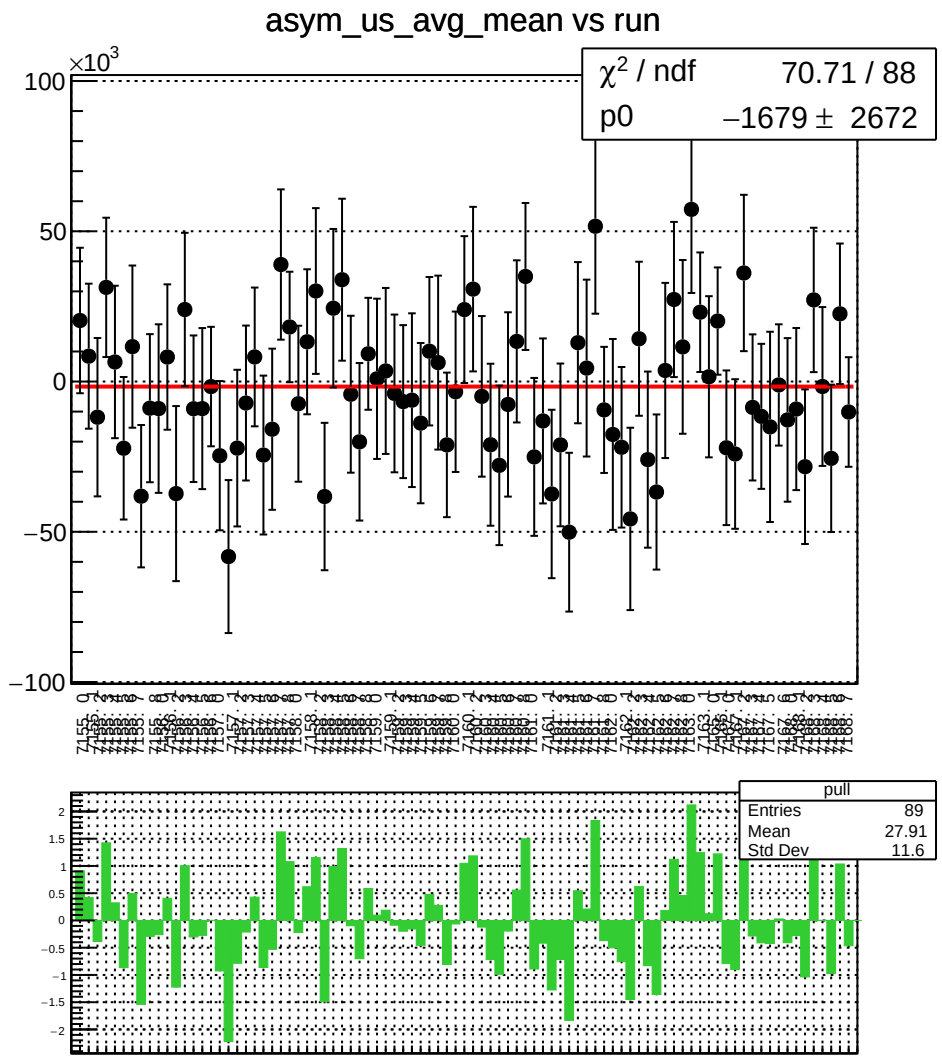

eigen_dit_asym_us_avg_mean vs run
χ² / ndf 77.84 / 88
p0 −1983 ± 838.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1261
Std Dev 0
2
1
0
−1
−2

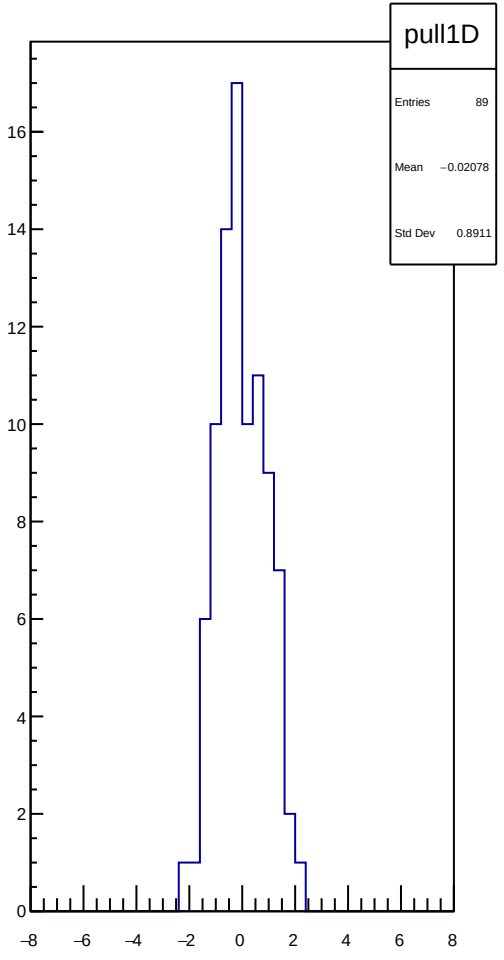

pull1D
Entries 89
Mean 0.002017
Std Dev 0.9352
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

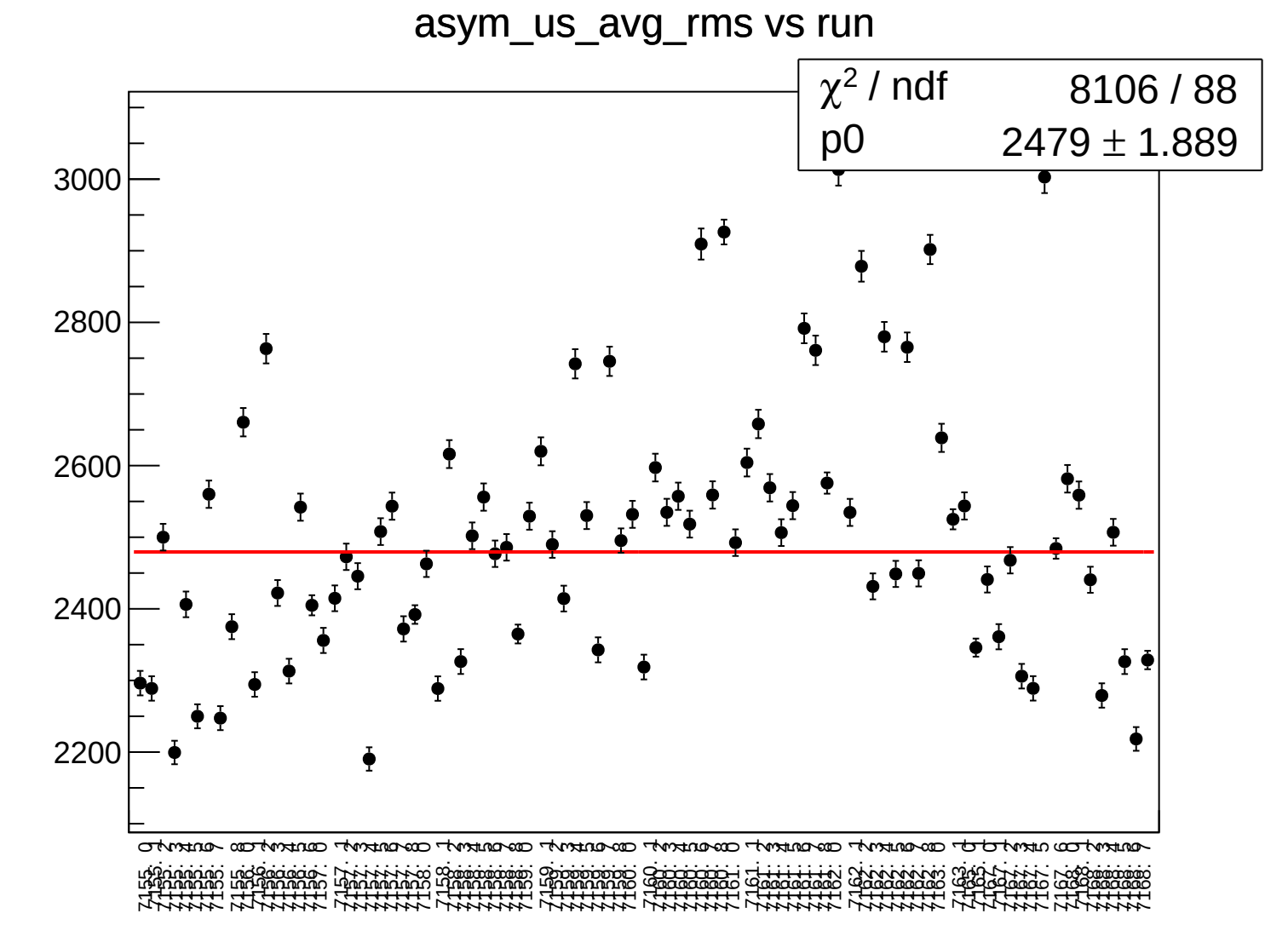

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 153.7 / 88
p0 780 ± 0.593
810
800
790
780
770
760

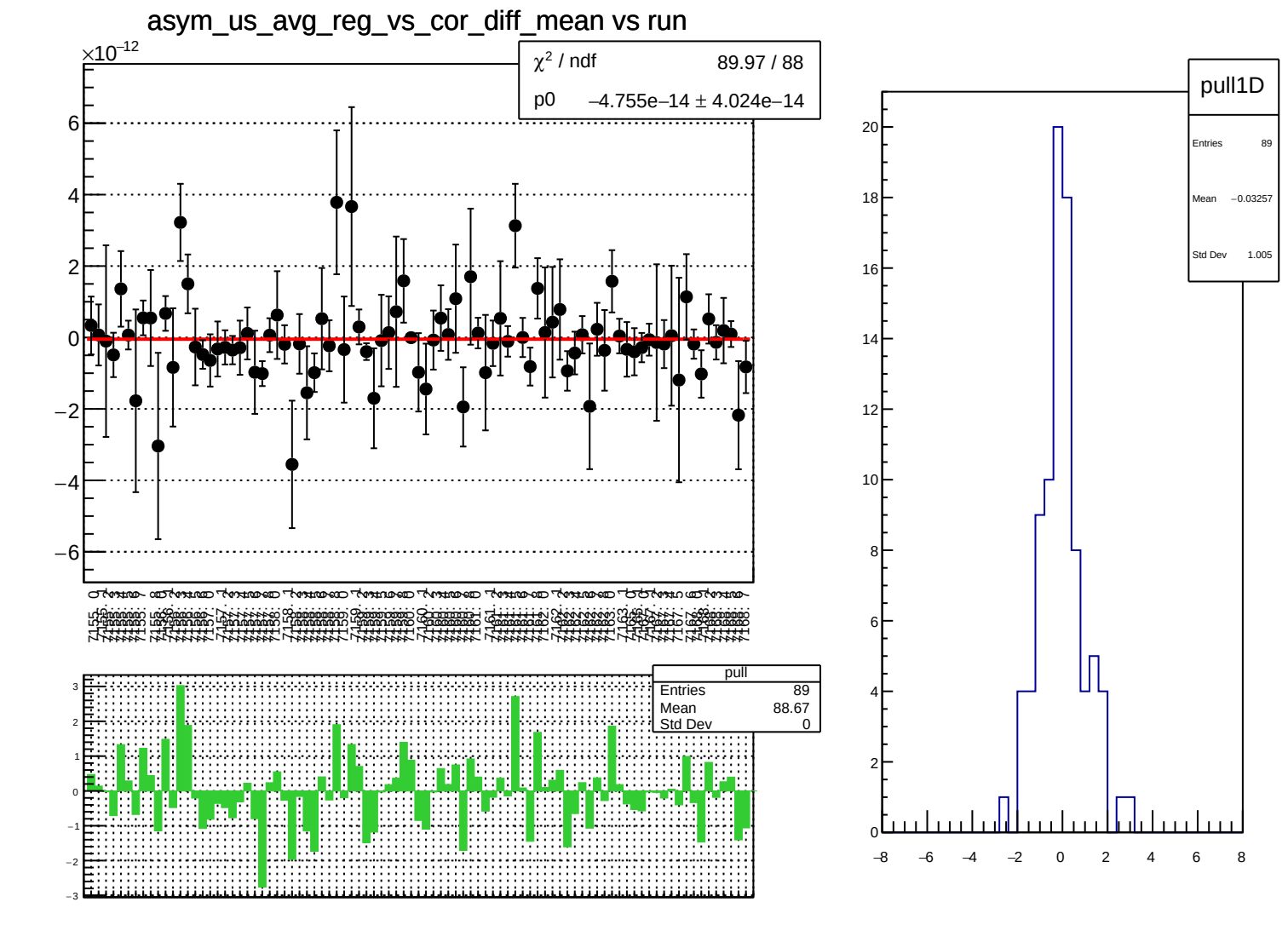

asym_us_avg_eigen_dit_correction_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 68.82 / 88
p0 −347.4 ± 2550
pull
Entries 89
Mean −9.464
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02349
Std Dev 0.8791
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

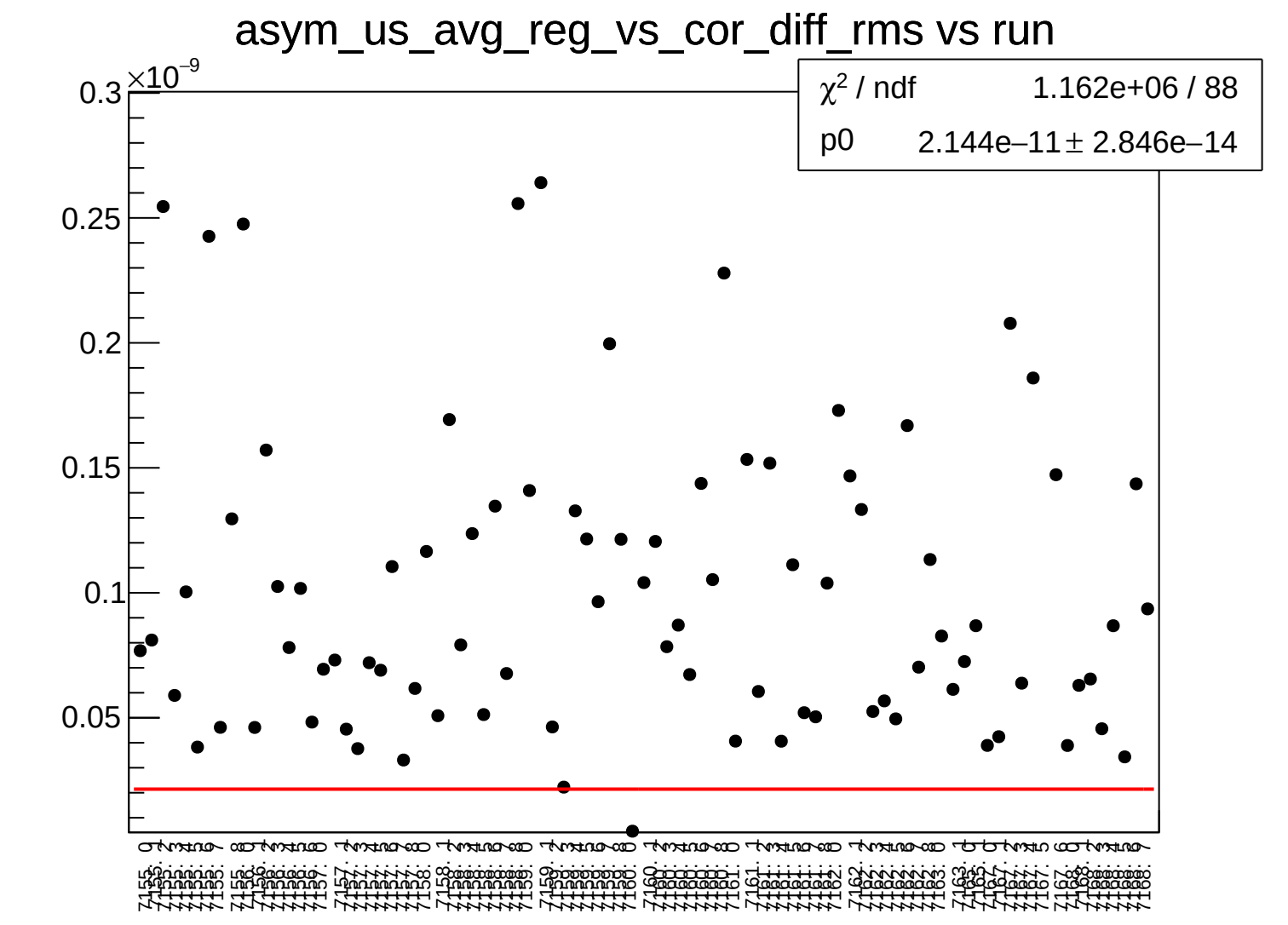

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 8802 / 88
p0 2366 ± 1.803
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

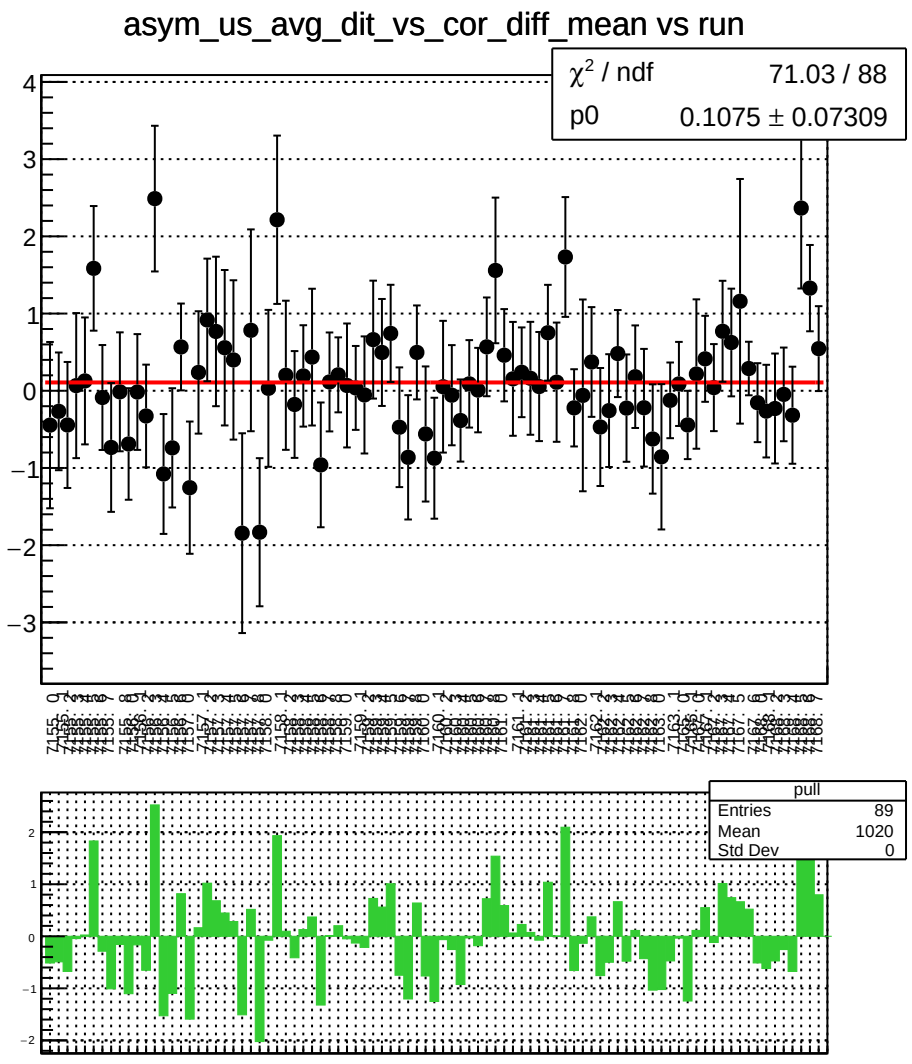

asym_us_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 70.71 / 88
p0 −1679 ± 2672
pull
Entries 89
Mean 27.91
Std Dev 11.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

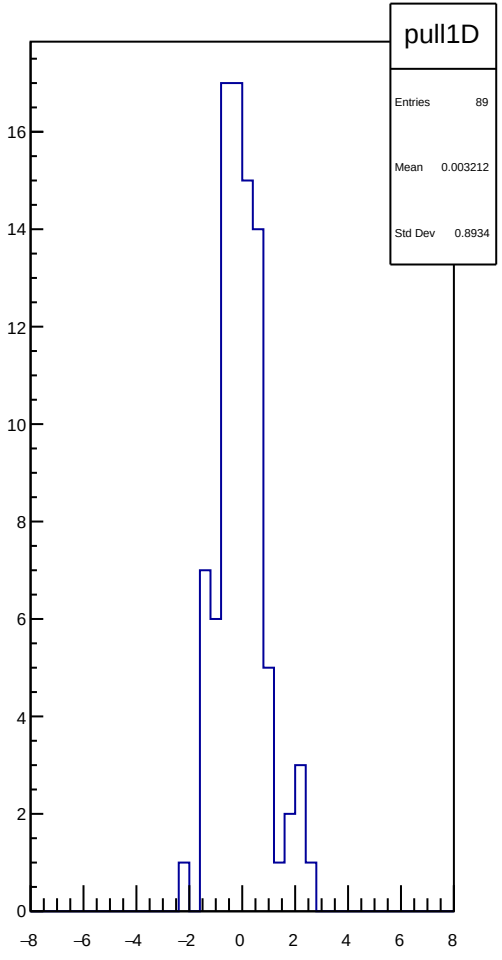

pull1D
Entries 89
Mean −0.02078
Std Dev 0.8911
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

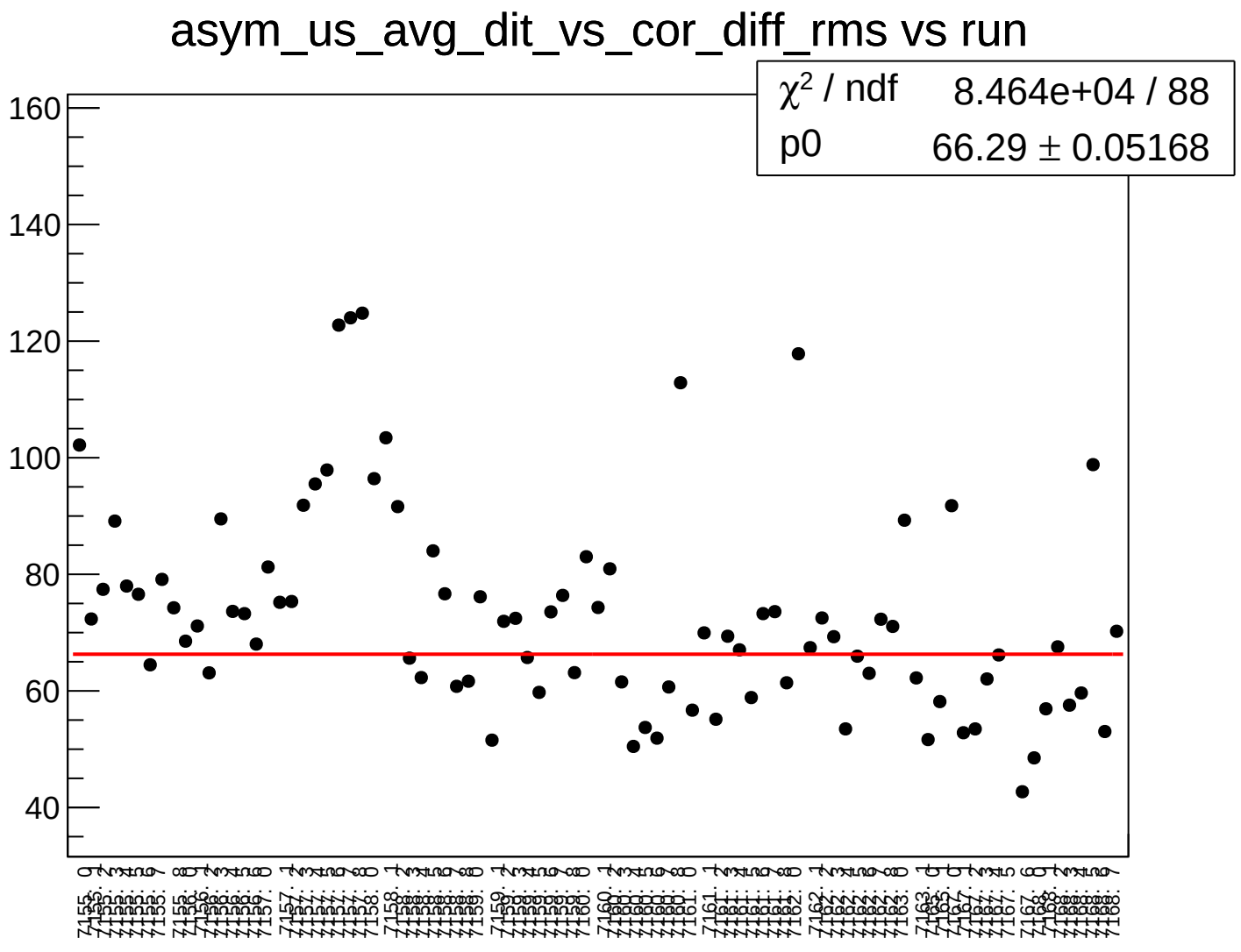

asym_us_avg_rms vs run
χ² / ndf 8106 / 88
p0 2479 ± 1.889
3000
2800
2600
2400
2200

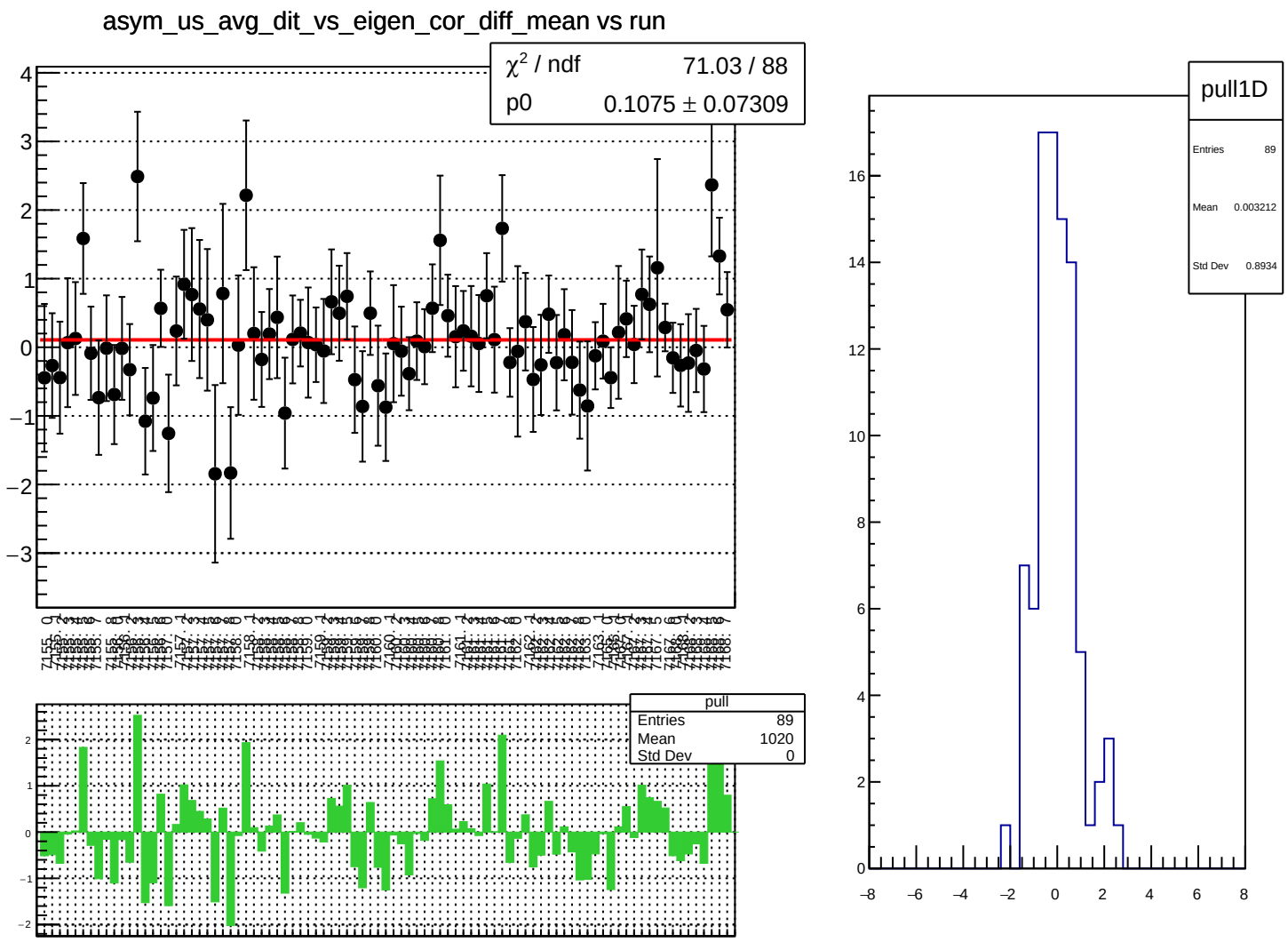

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.97 / 88
p0 −4.755e−14 ± 4.024e−14
pull
Entries 89
Mean 88.67
Std Dev 0
pull1D
Entries 89
Mean −0.03257
Std Dev 1.005

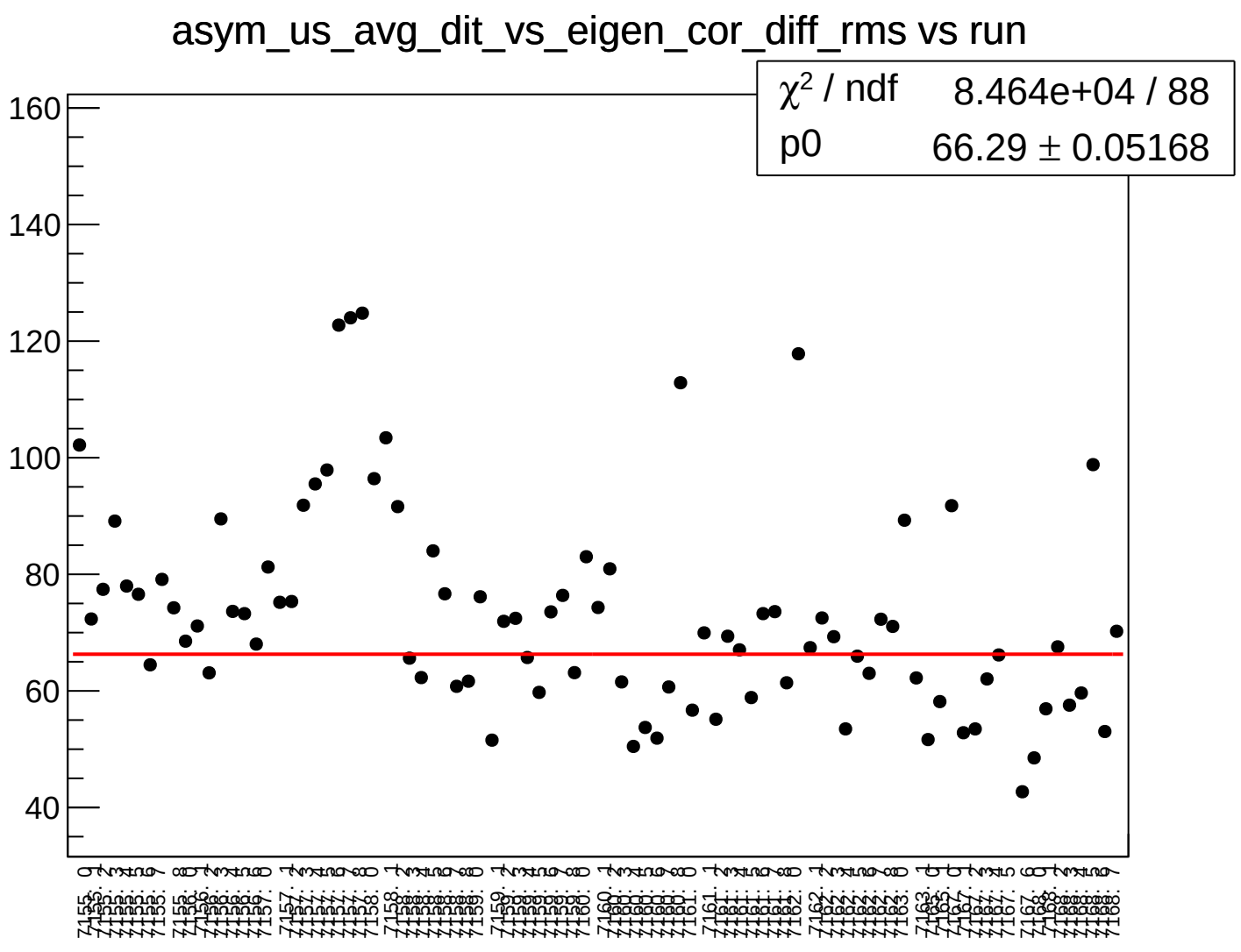

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 1.162e+06 / 88
p0 2.144e−11 ± 2.846e−14

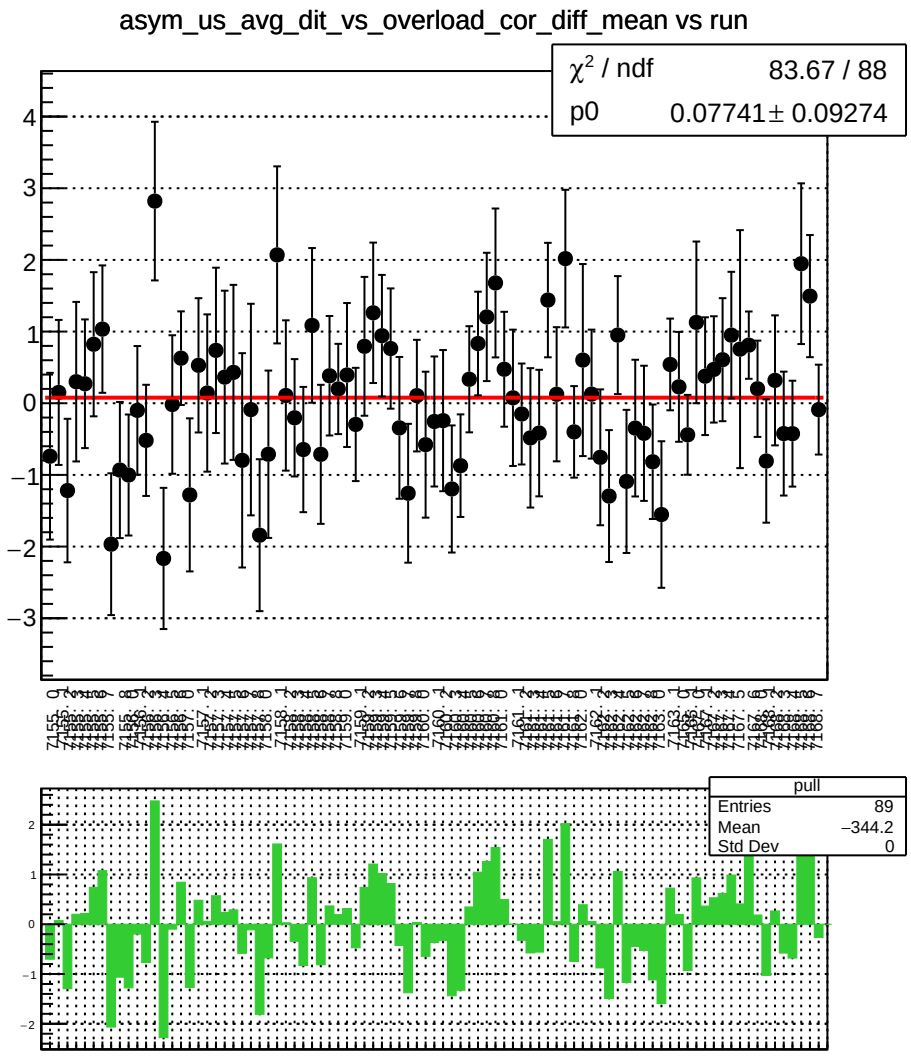

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.03 / 88
p0 0.1075 ± 0.07309
pull
Entries 89
Mean 1020
Std Dev 0

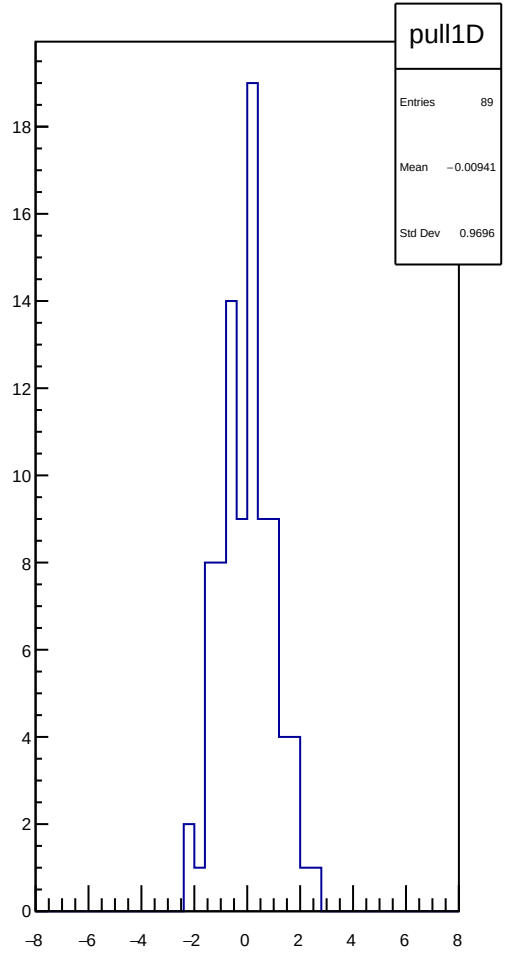

pull1D
Entries 89
Mean 0.003212
Std Dev 0.8934

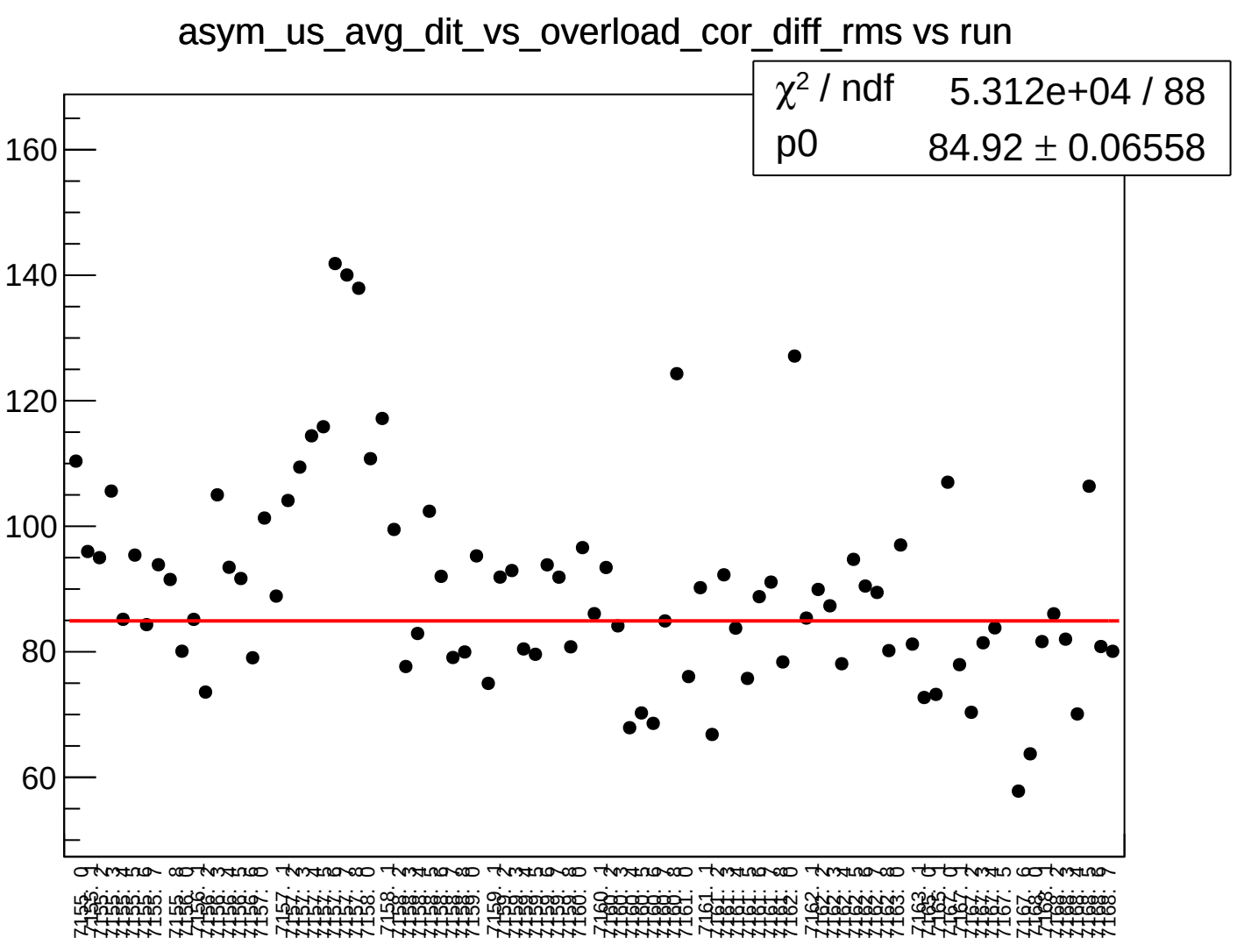

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.464e+04 / 88
p0 66.29 ± 0.05168
160
140
120
100
80
60
40

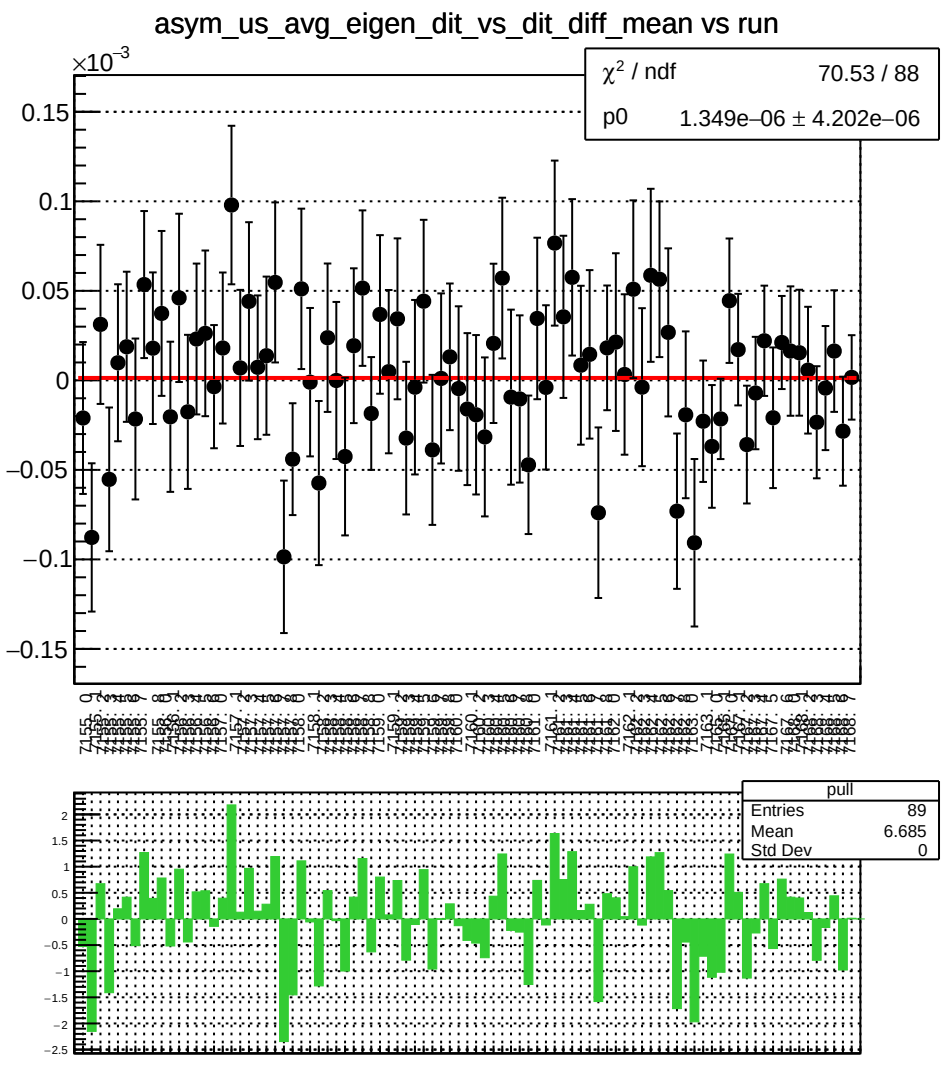

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.03 / 88
p0 0.1075 ± 0.07309
pull
Entries 89
Mean 1020
Std Dev 0
pull1D
Entries 89
Mean 0.003212
Std Dev 0.8934

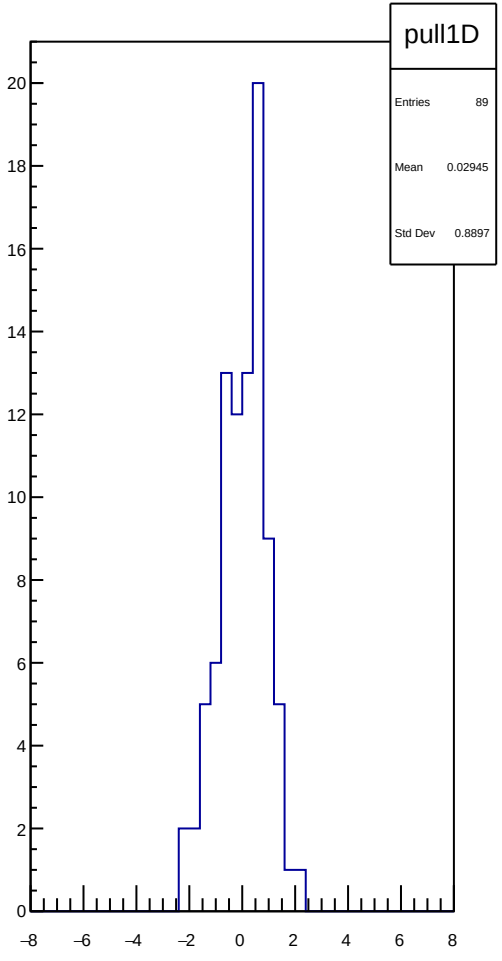

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.464e+04 / 88
p0 66.29 ± 0.05168
160
140
120
100
80
60
40

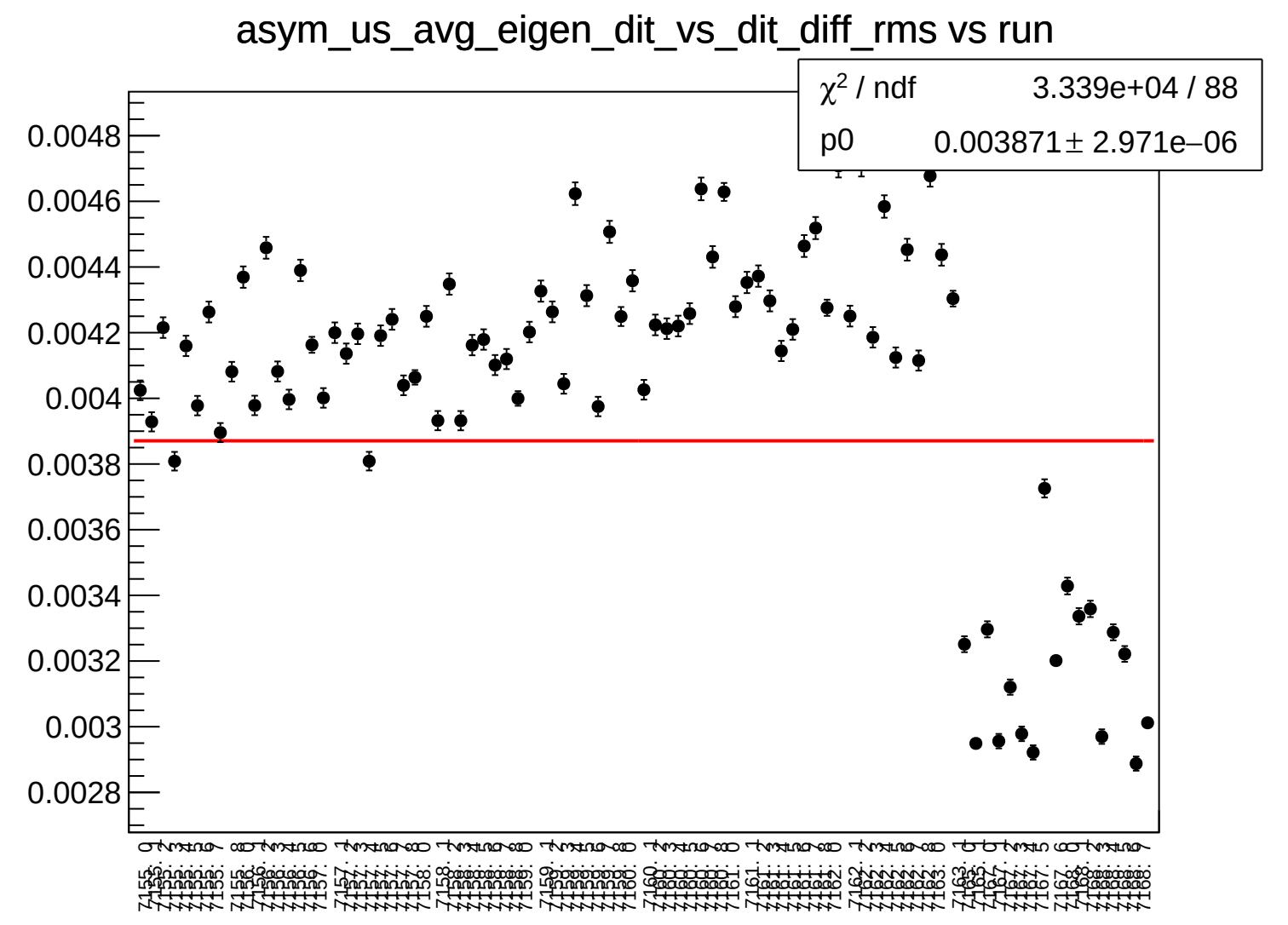

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.67 / 88
p0 0.07741 ± 0.09274
pull
Entries 89
Mean −344.2
Std Dev 0

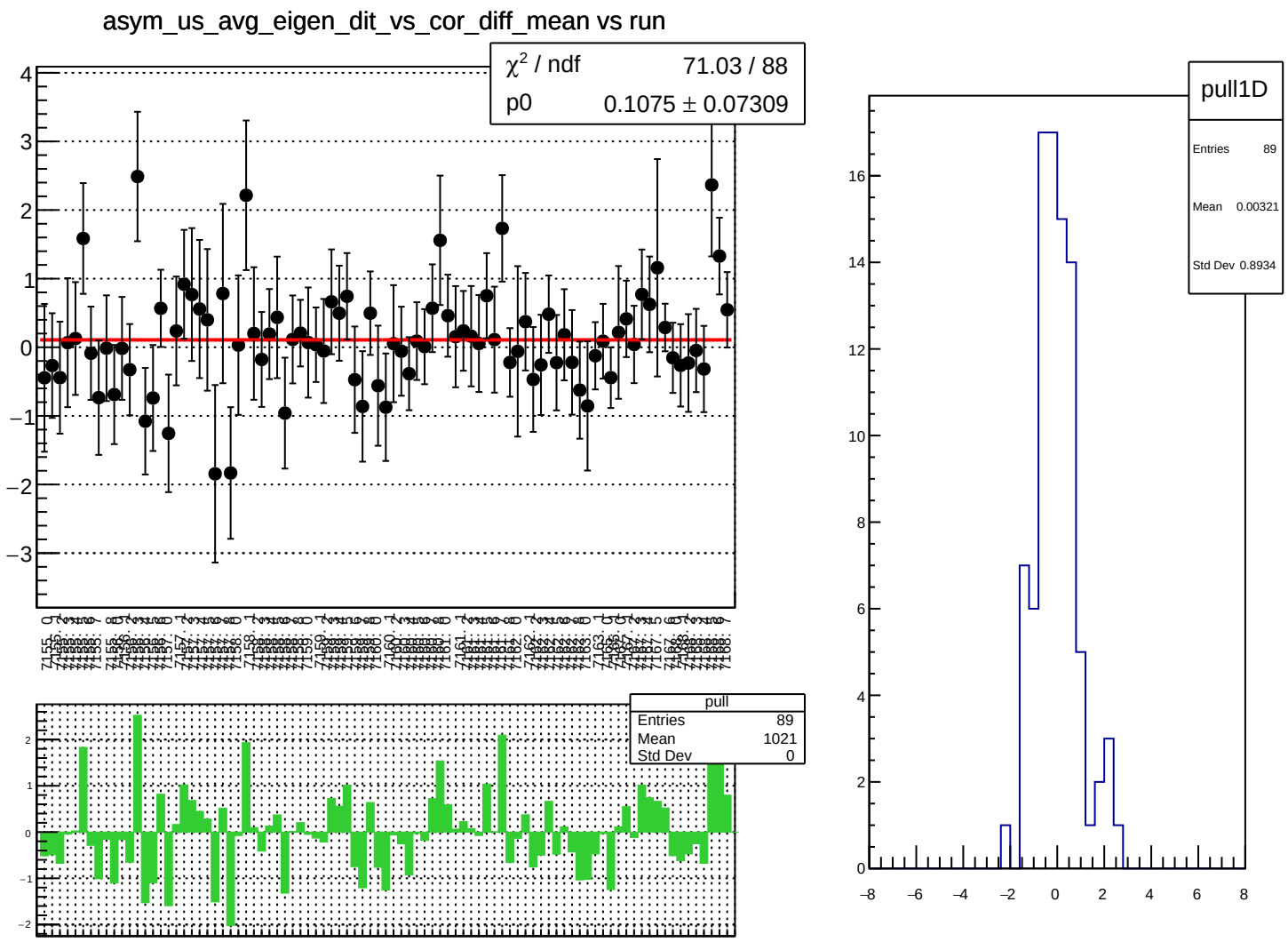

pull1D
Entries 89
Mean −0.00941
Std Dev 0.9696

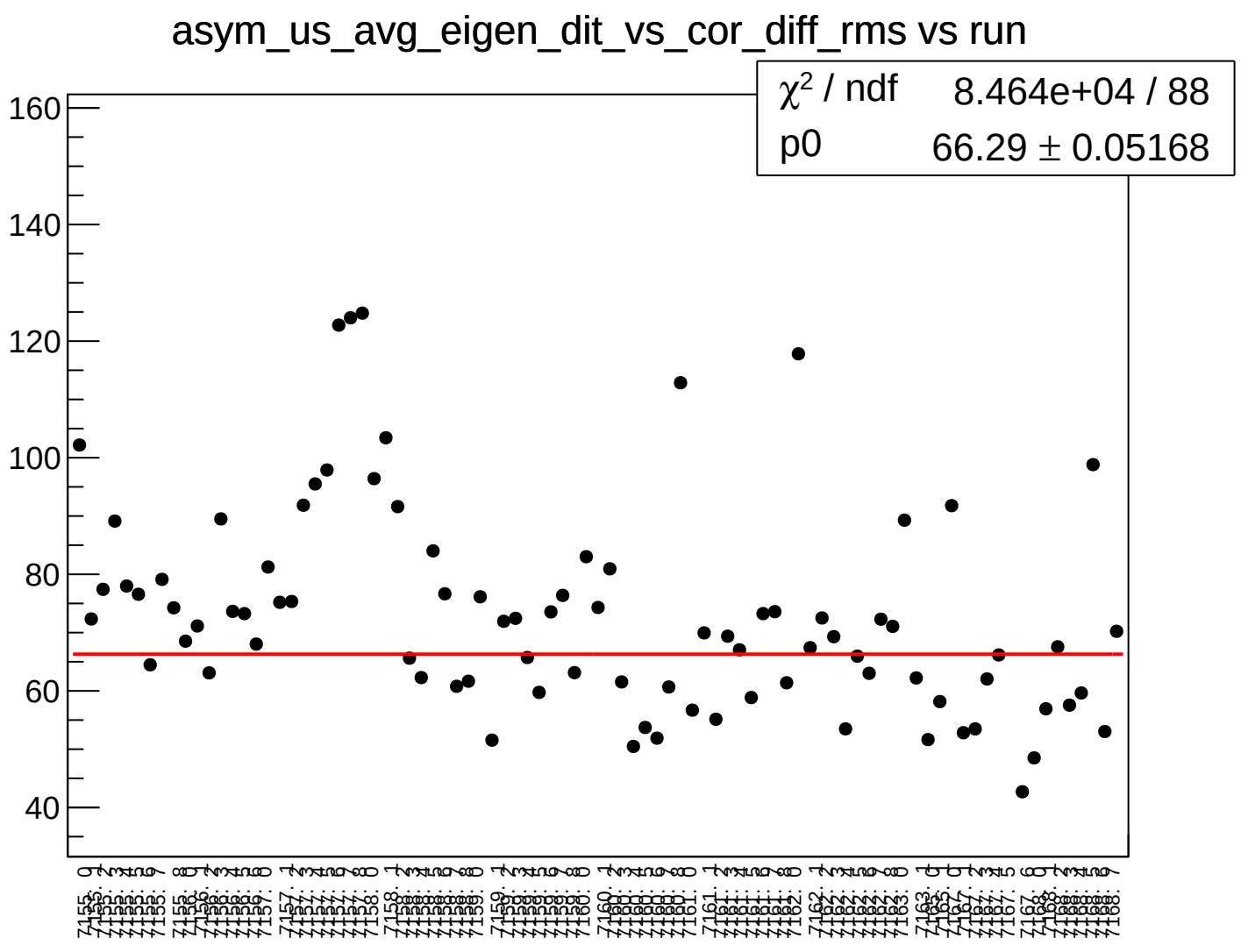

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.312e+04 / 88
p0 84.92 ± 0.06558
160
140
120
100
80
60

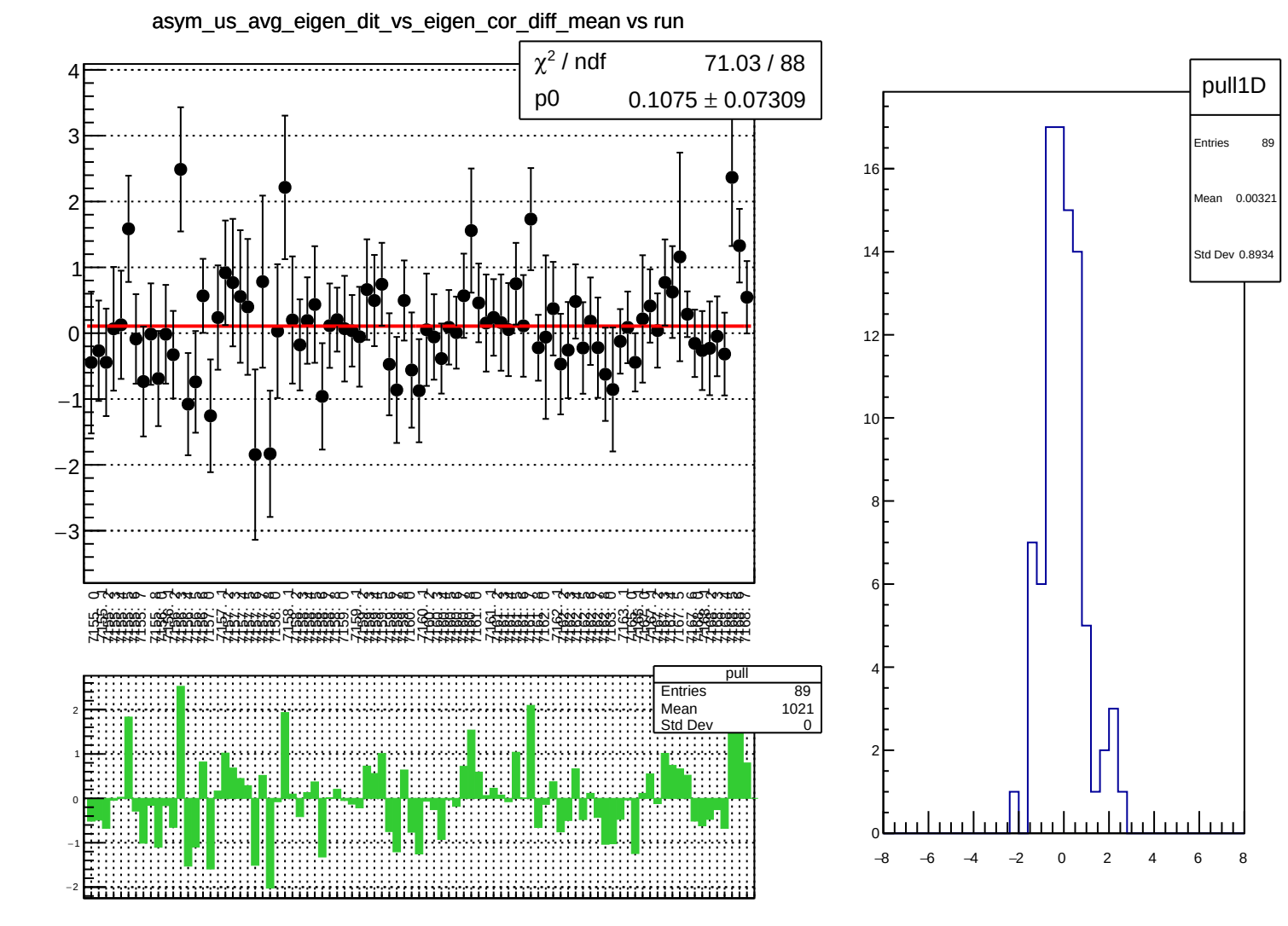

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.53 / 88
p0 1.349e−06 ± 4.202e−06
pull
Entries 89
Mean 6.685
Std Dev 0

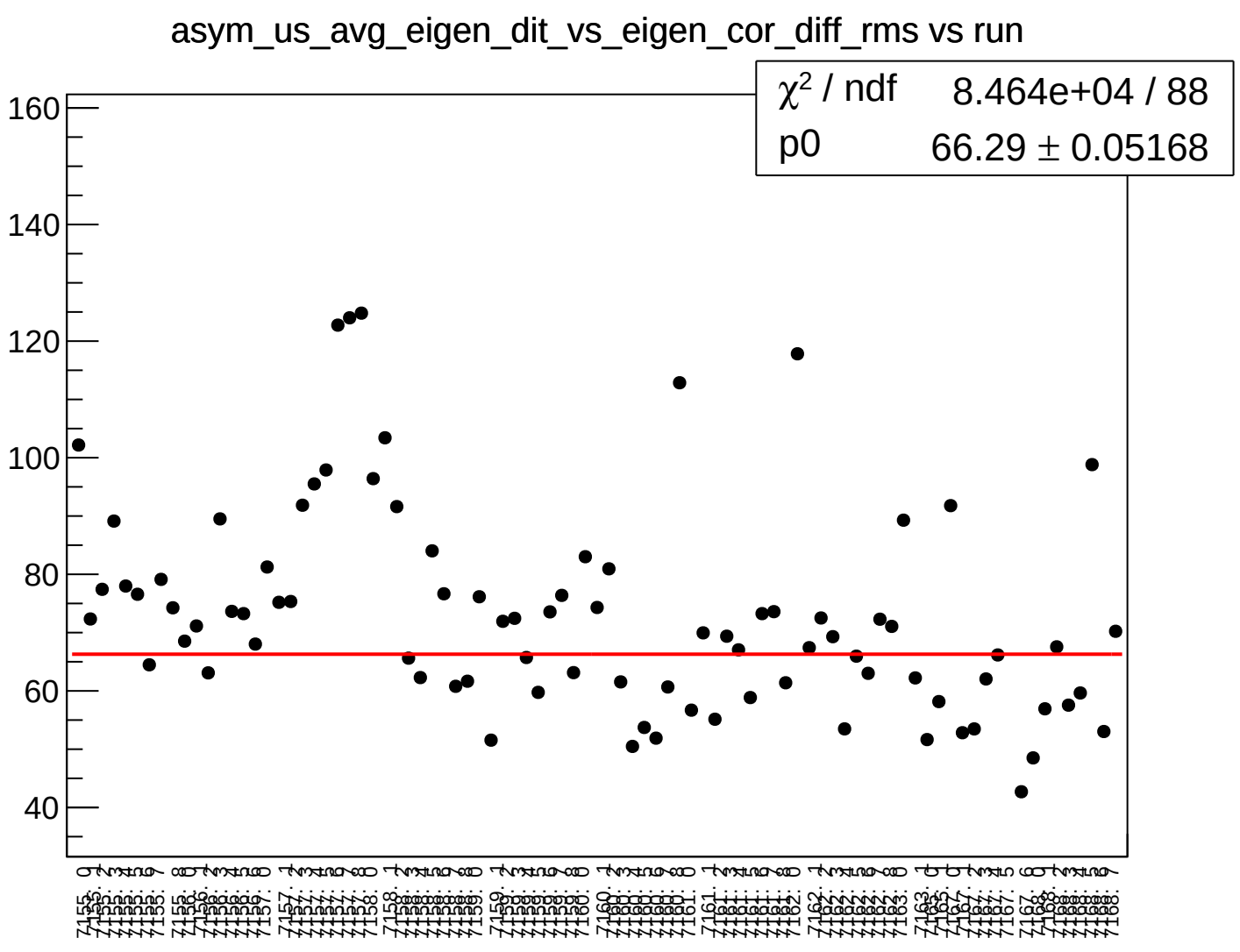

pull1D
Entries 89
Mean 0.02945
Std Dev 0.8897

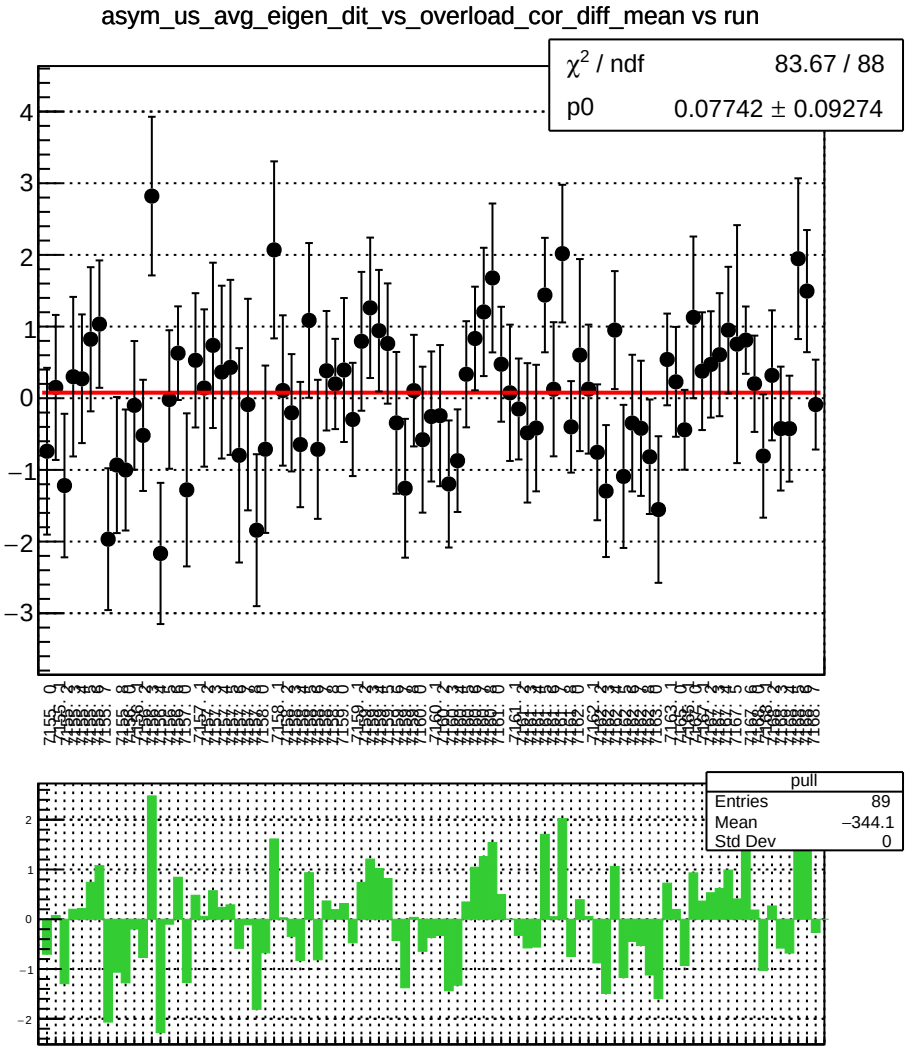

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.339e+04 / 88
p0 0.003871 ± 2.971e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

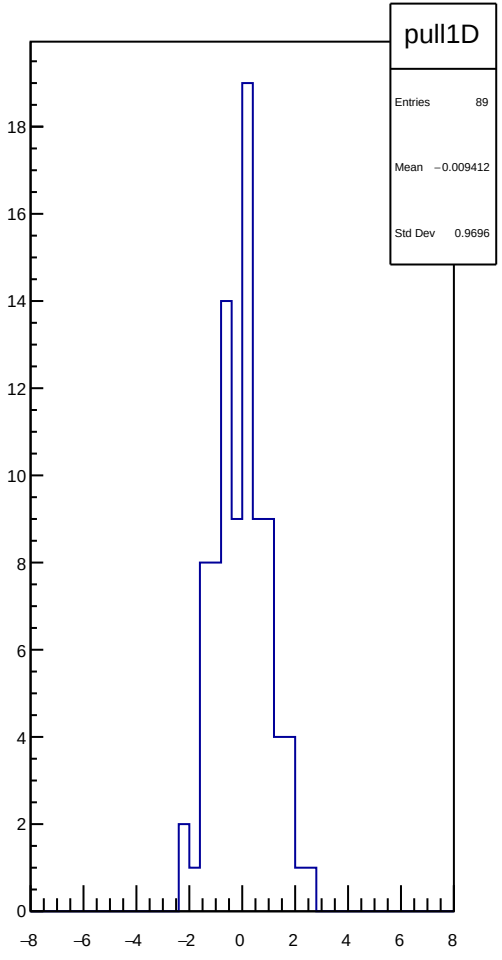

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.03 / 88
p0 0.1075 ± 0.07309
pull
Entries 89
Mean 1021
Std Dev 0
pull1D
Entries 89
Mean 0.00321
Std Dev 0.8934

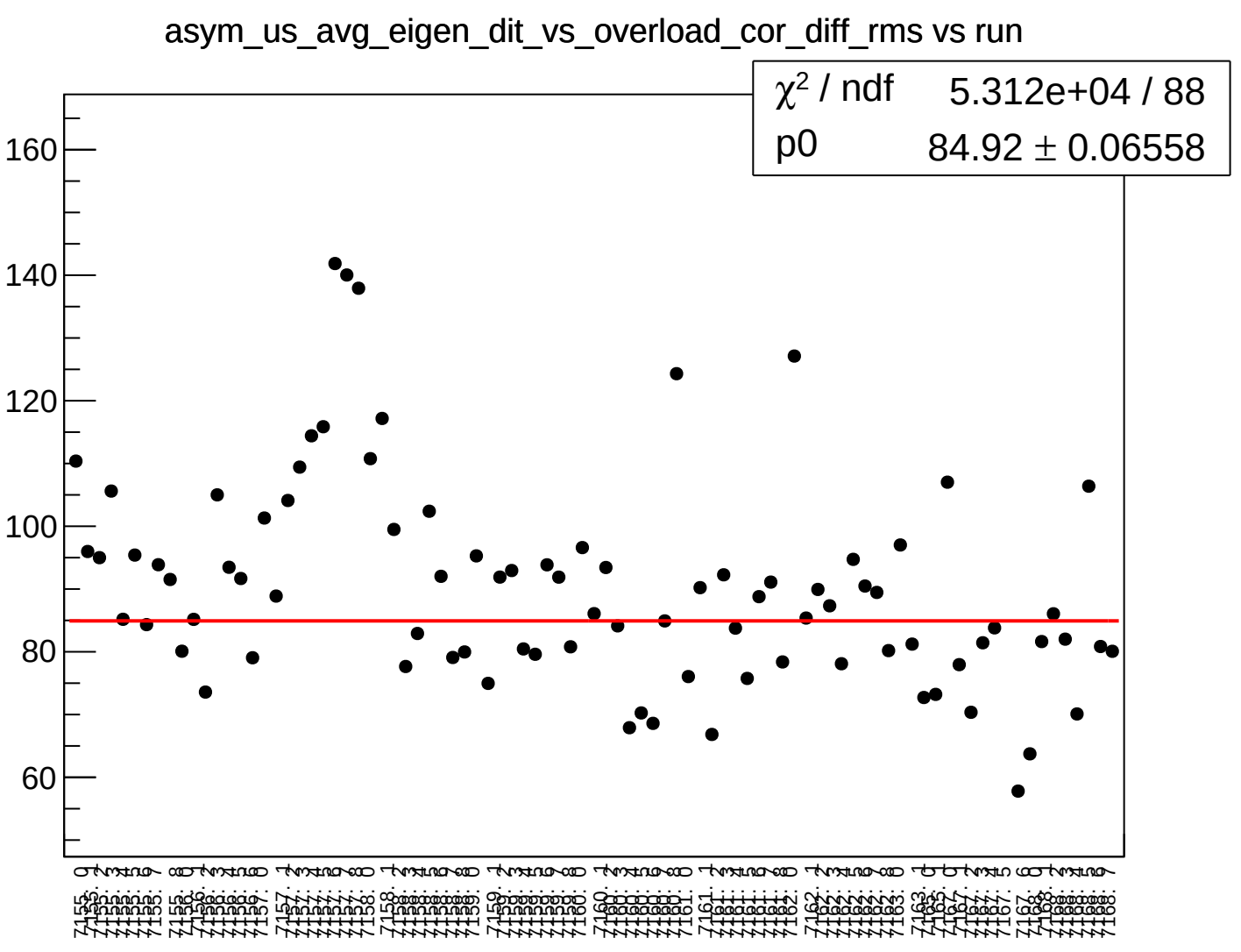

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.464e+04 / 88
p0 66.29 ± 0.05168
160
140
120
100
80
60
40

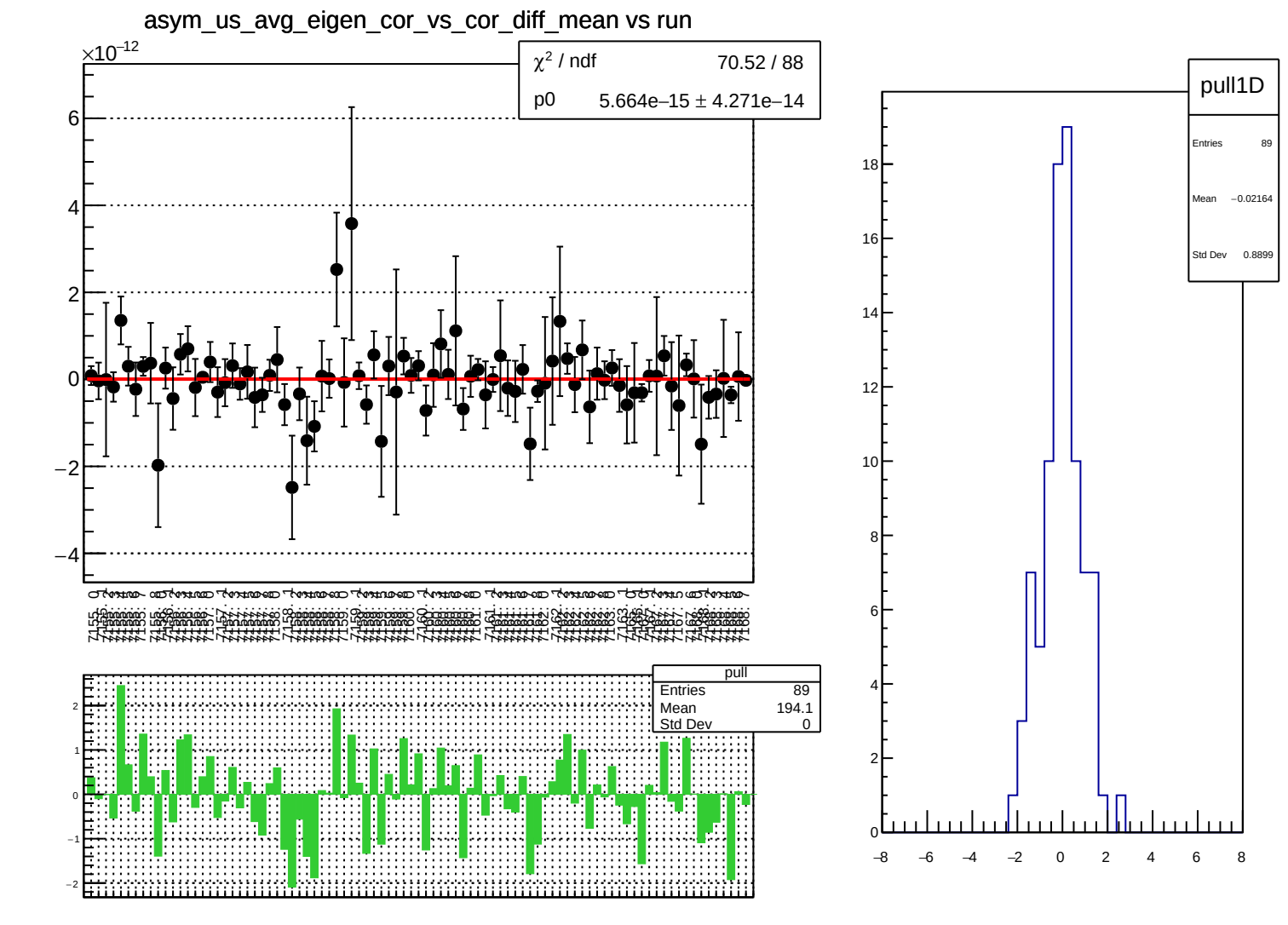

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.03 / 88
p0 0.1075 ± 0.07309
pull
Entries 89
Mean 1021
Std Dev 0
pull1D
Entries 89
Mean 0.00321
Std Dev 0.8934

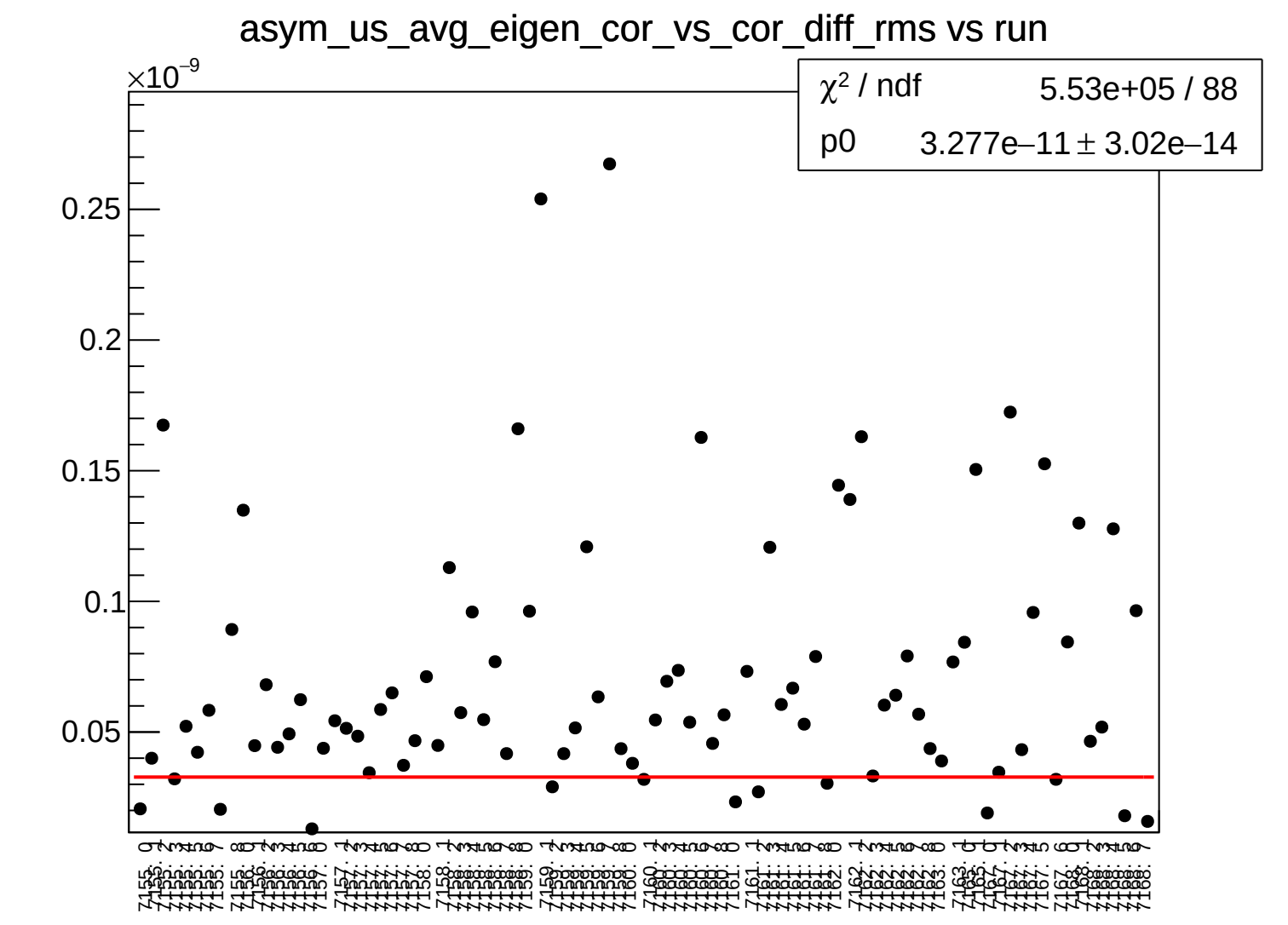

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.464e+04 / 88
p0 66.29 ± 0.05168
160
140
120
100
80
60
40

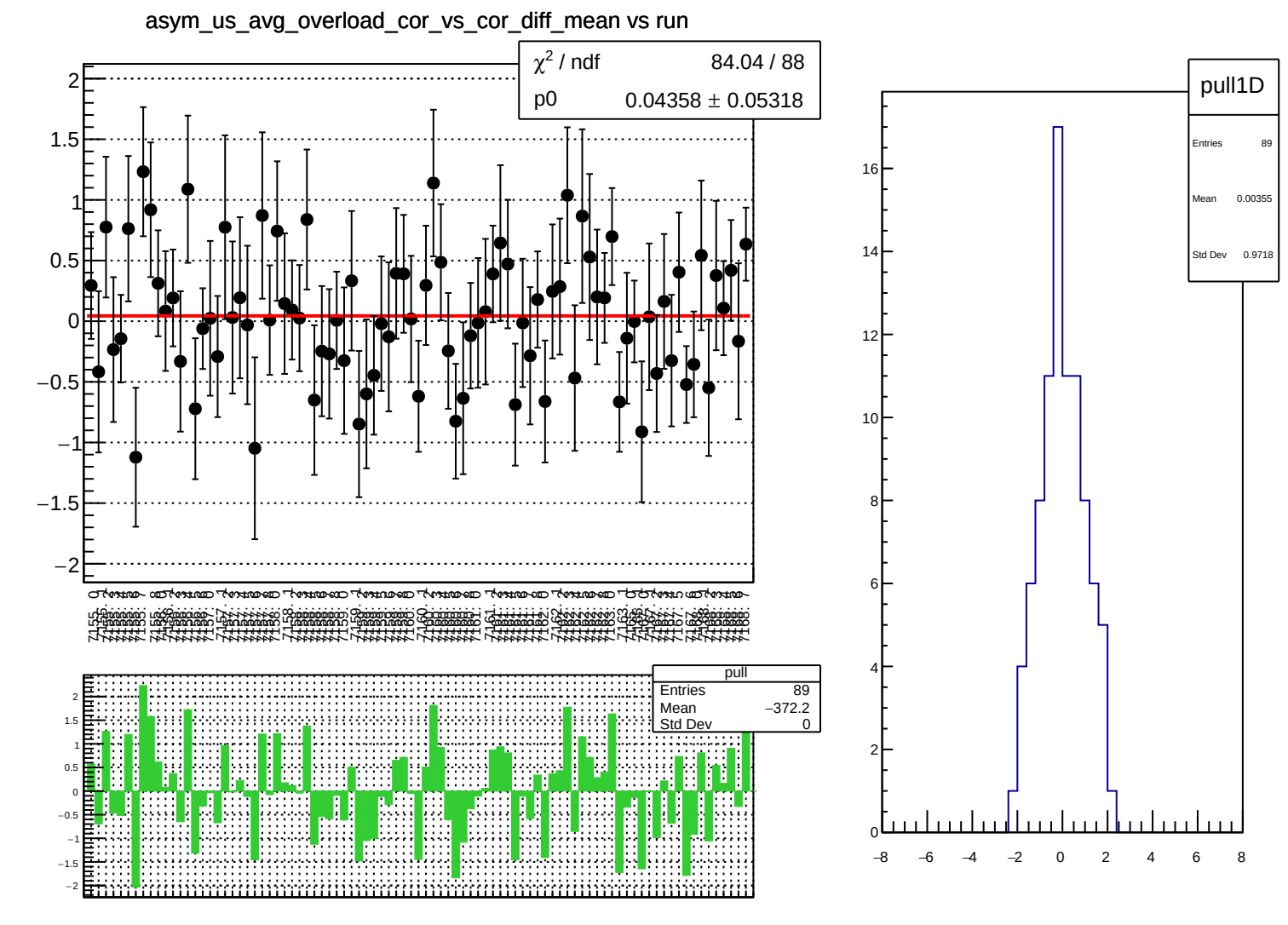

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 83.67 / 88
p0 0.07742 ± 0.09274
pull
Entries 89
Mean −344.1
Std Dev 0

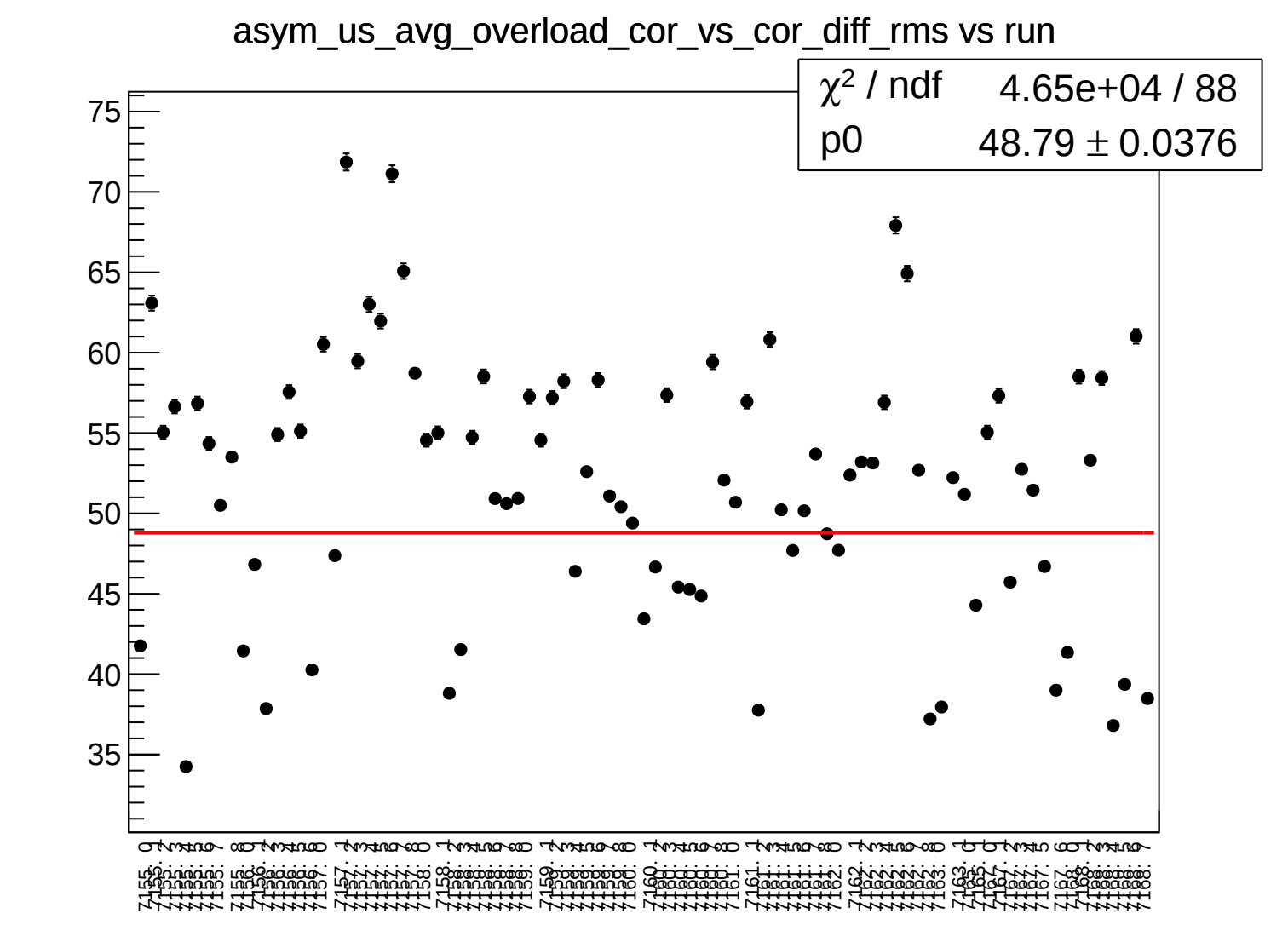

pull1D
Entries 89
Mean −0.009412
Std Dev 0.9696

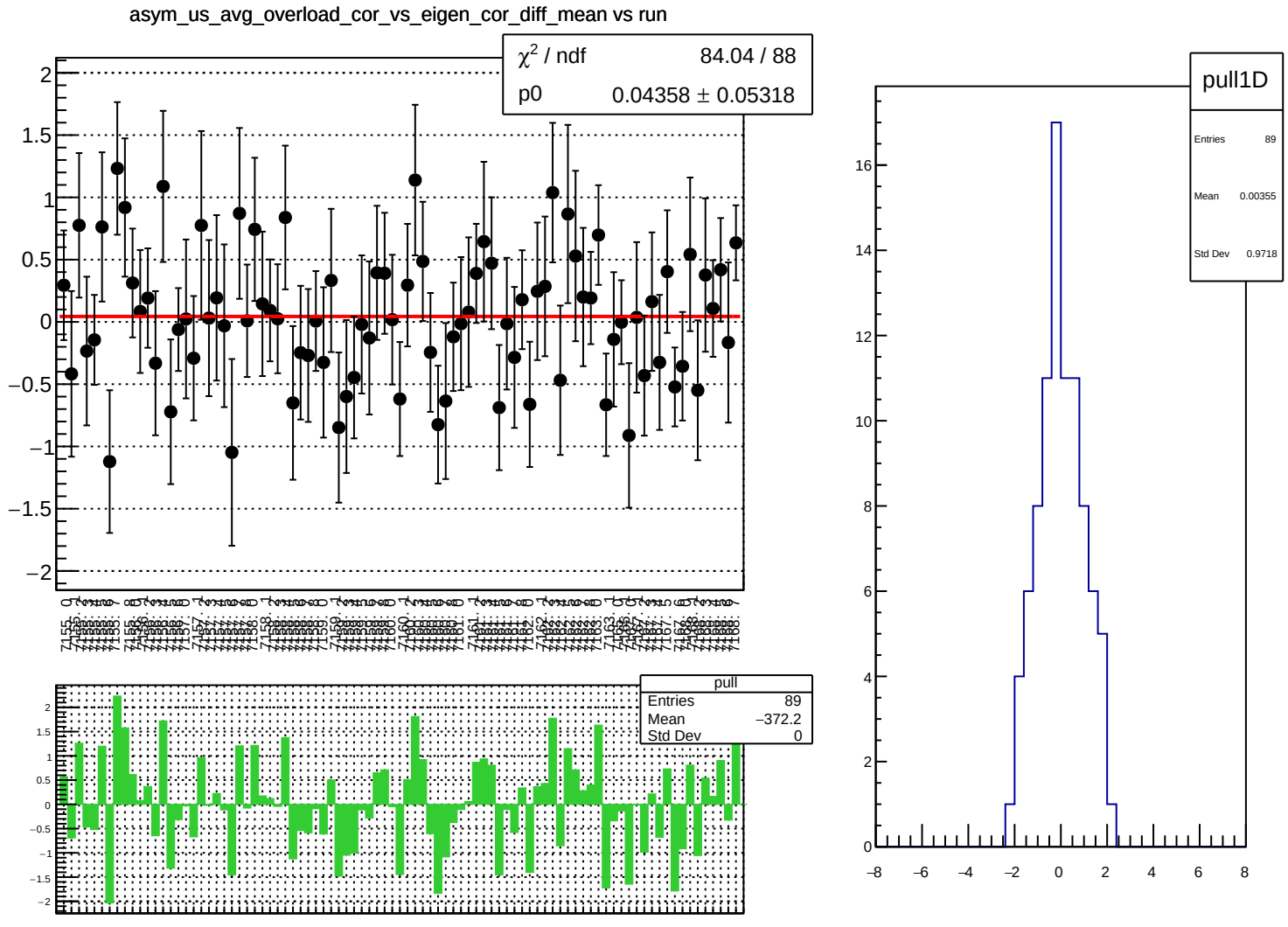

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.312e+04 / 88
p0 84.92 ± 0.06558
160
140
120
100
80
60

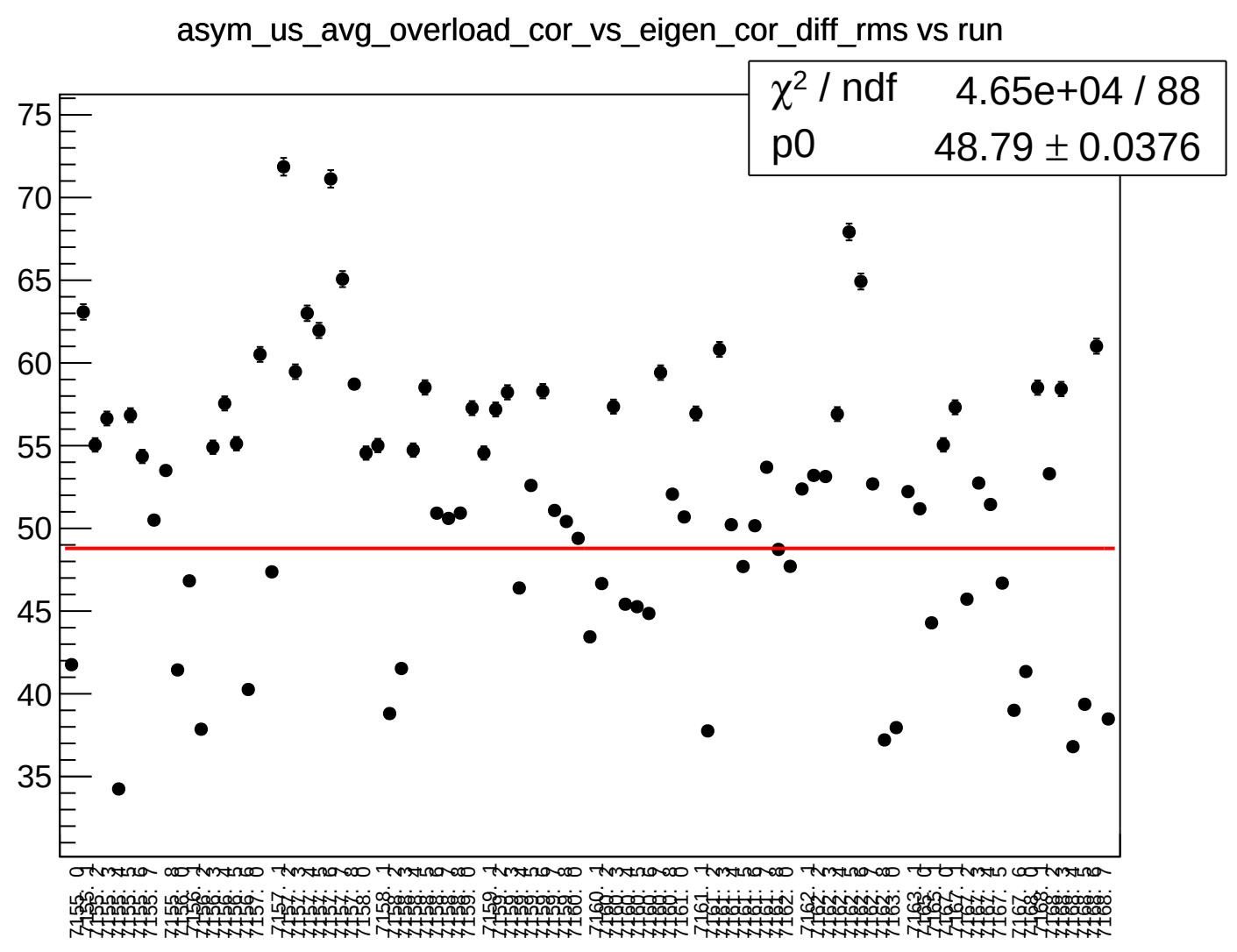

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.52 / 88
p0 5.664e−15 ± 4.271e−14
pull
Entries 89
Mean 194.1
Std Dev 0
pull1D
Entries 89
Mean −0.02164
Std Dev 0.8899

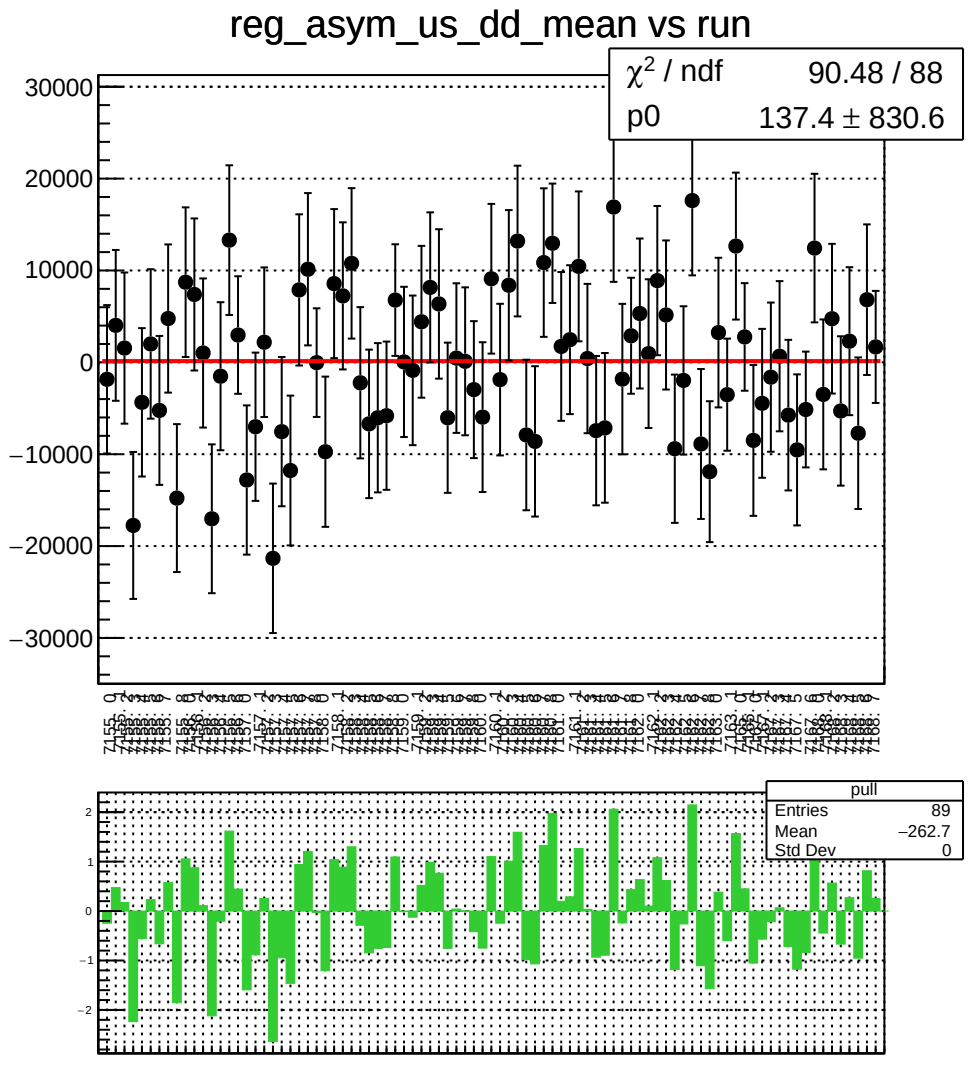

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.53e+05 / 88
p0 3.277e−11 ± 3.02e−14
0.25
0.2
0.15
0.1
0.05

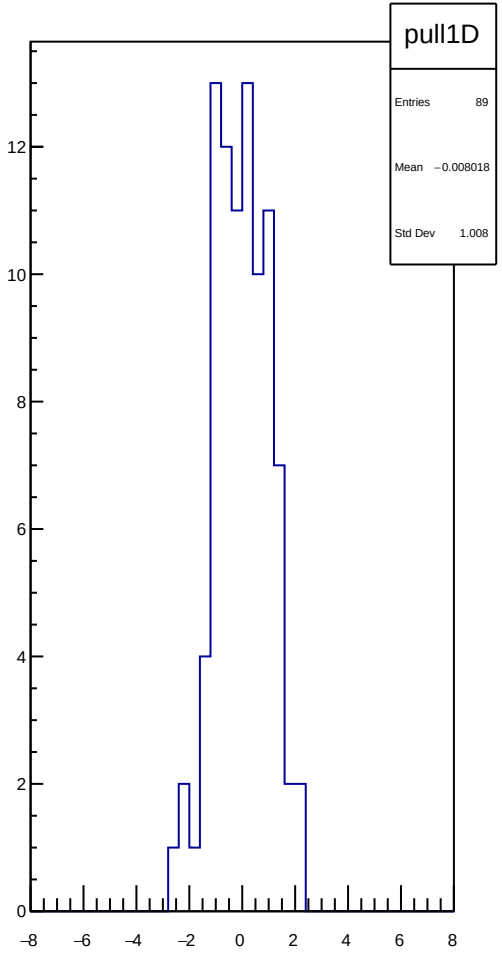

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 84.04 / 88
p0 0.04358 ± 0.05318
pull
Entries 89
Mean −372.2
Std Dev 0
pull1D
Entries 89
Mean 0.00355
Std Dev 0.9718

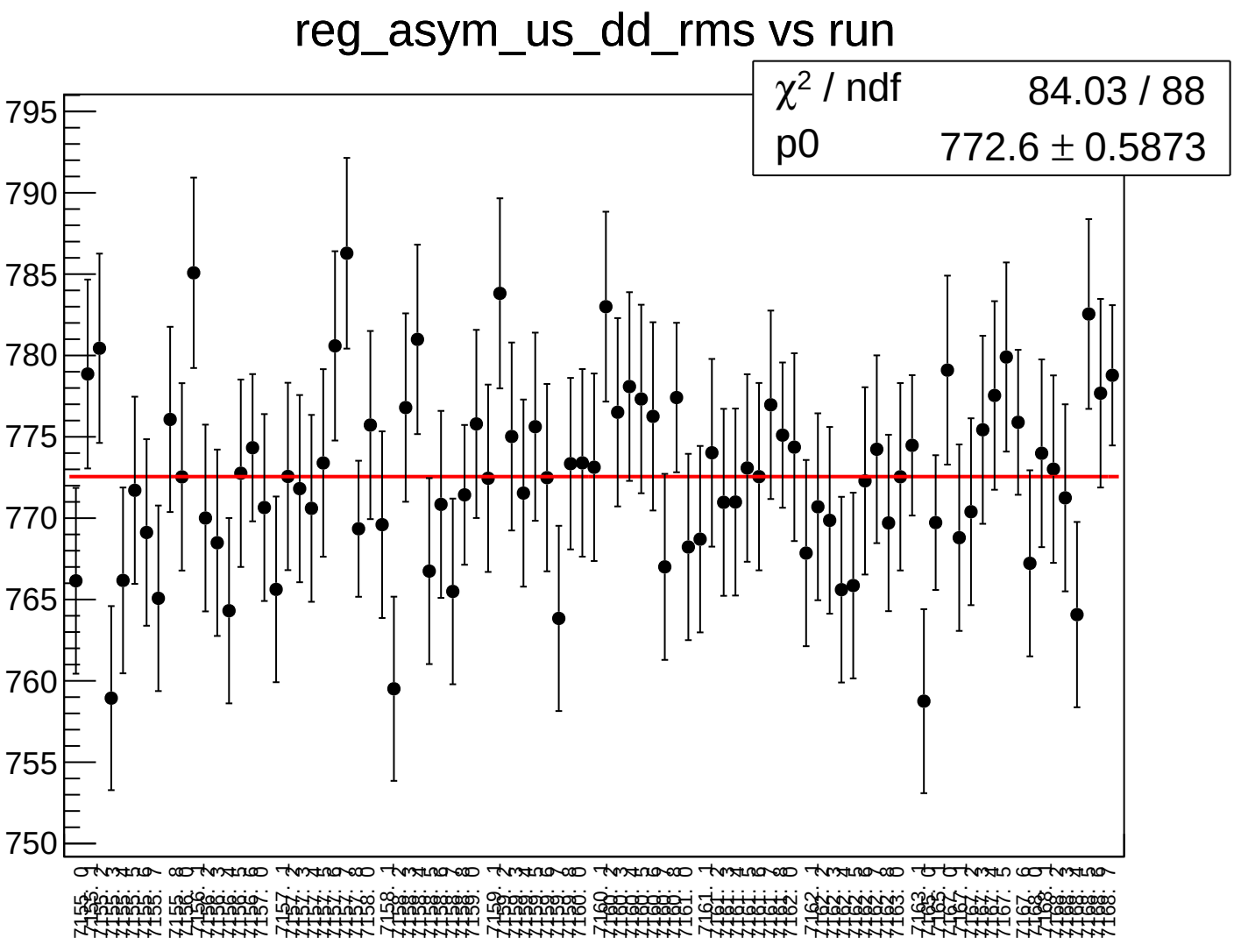

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 4.65e+04 / 88
p0 48.79 ± 0.0376
75
70
65
60
55
50
45
40
35

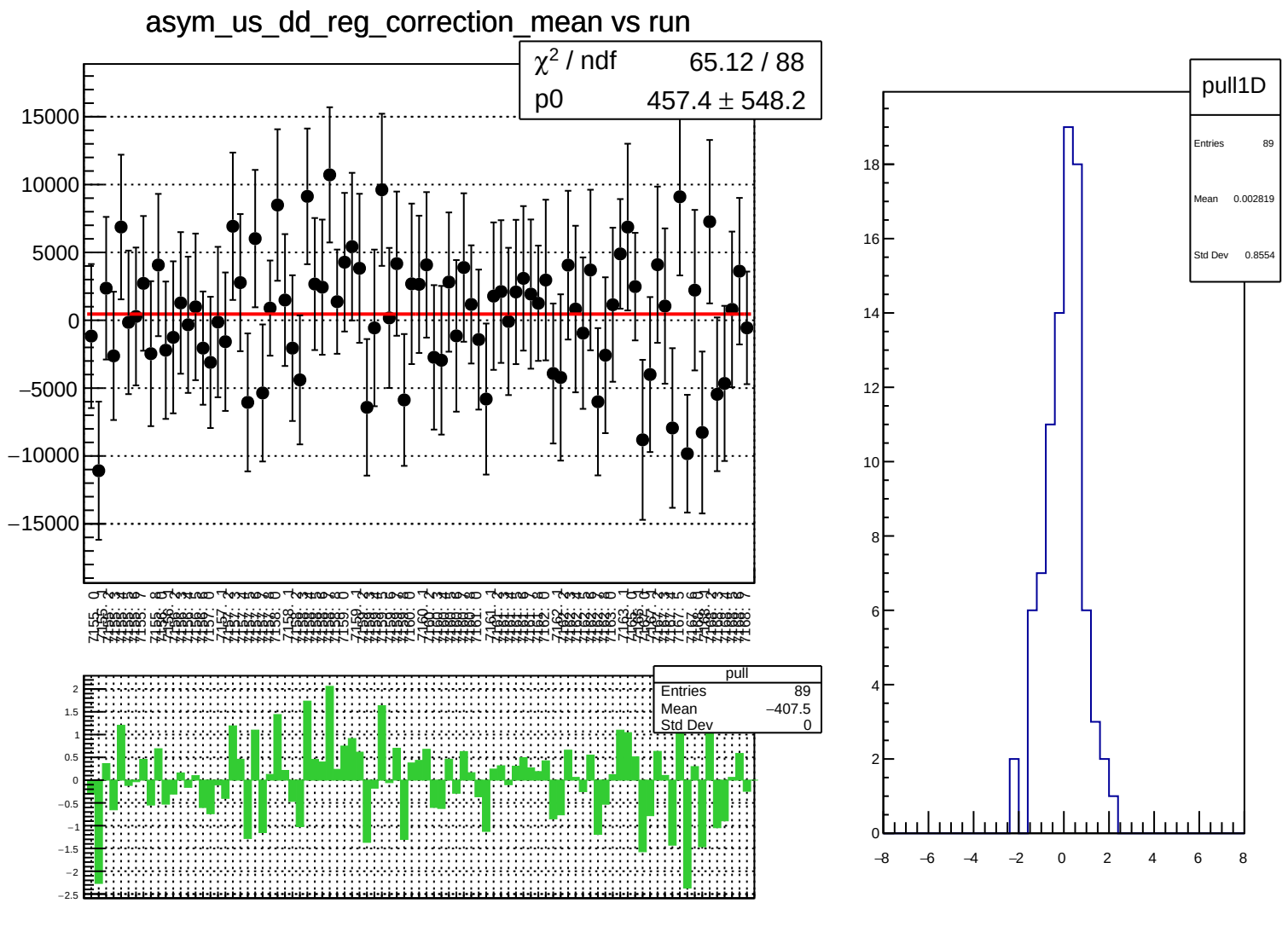

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.04 / 88
p0 0.04358 ± 0.05318
pull
Entries 89
Mean −372.2
Std Dev 0
pull1D
Entries 89
Mean 0.00355
Std Dev 0.9718

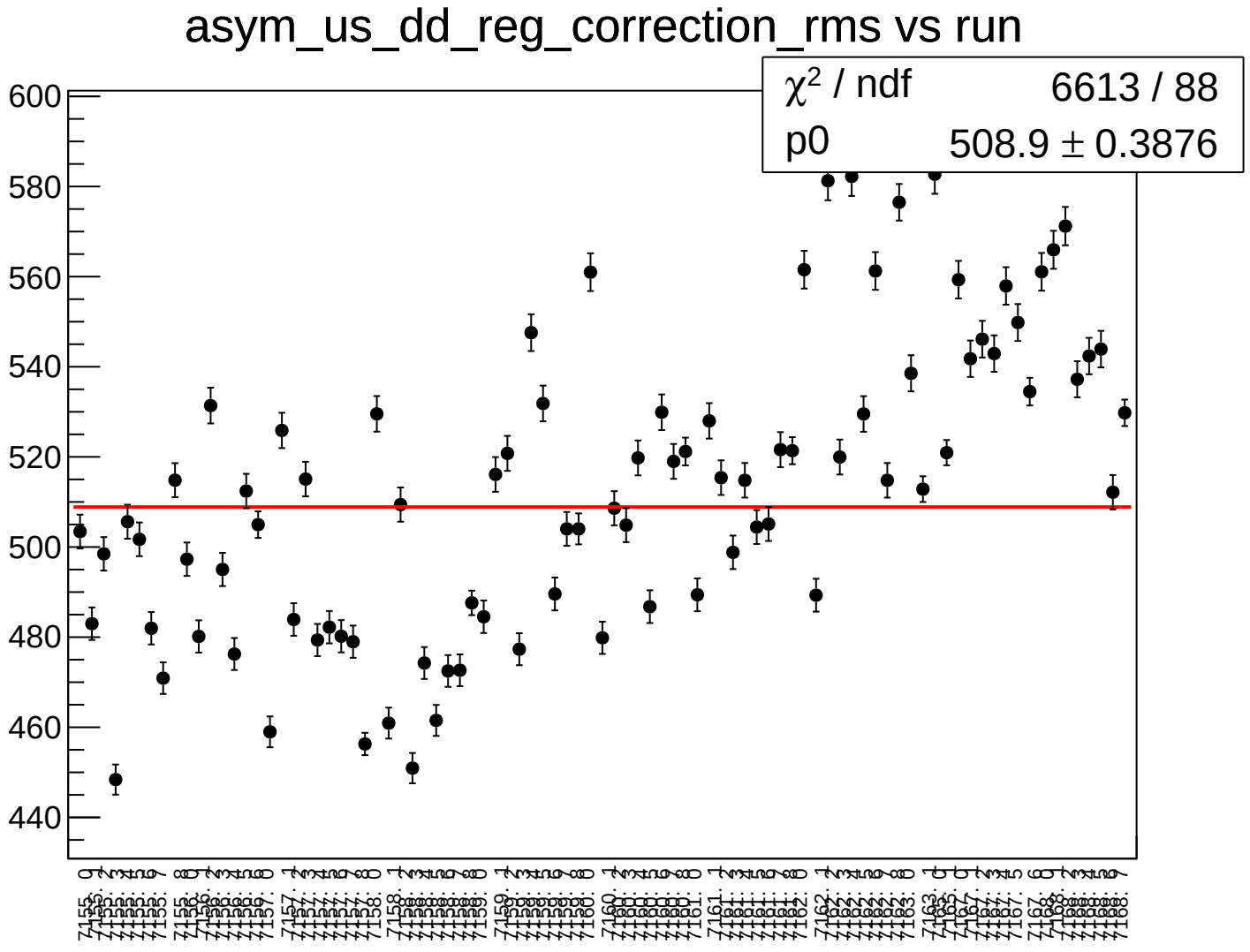

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.65e+04 / 88
p0 48.79 ± 0.0376
75
70
65
60
55
50
45
40
35

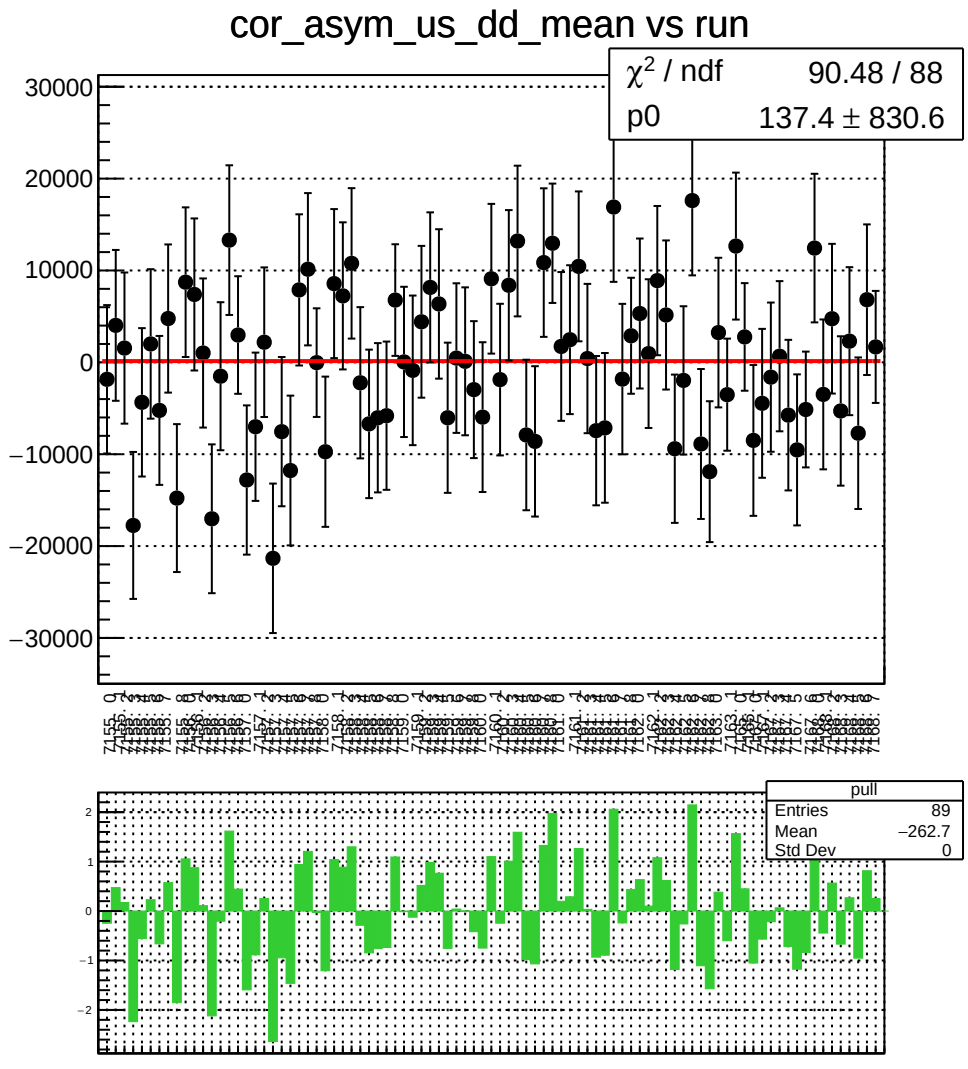

reg_asym_us_dd_mean vs run
χ² / ndf 90.48 / 88
p0 137.4 ± 830.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −262.7
Std Dev 0
2
1
0
−1
−2

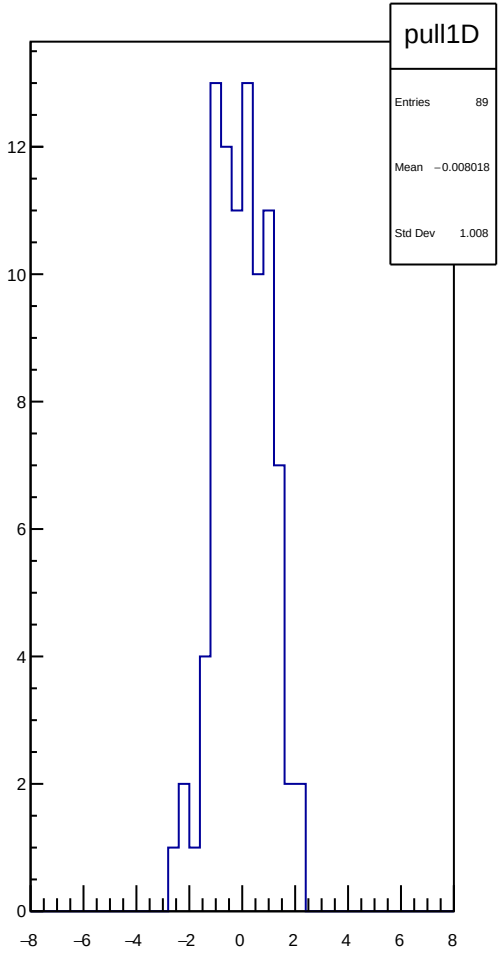

pull1D
Entries 89
Mean −0.008018
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

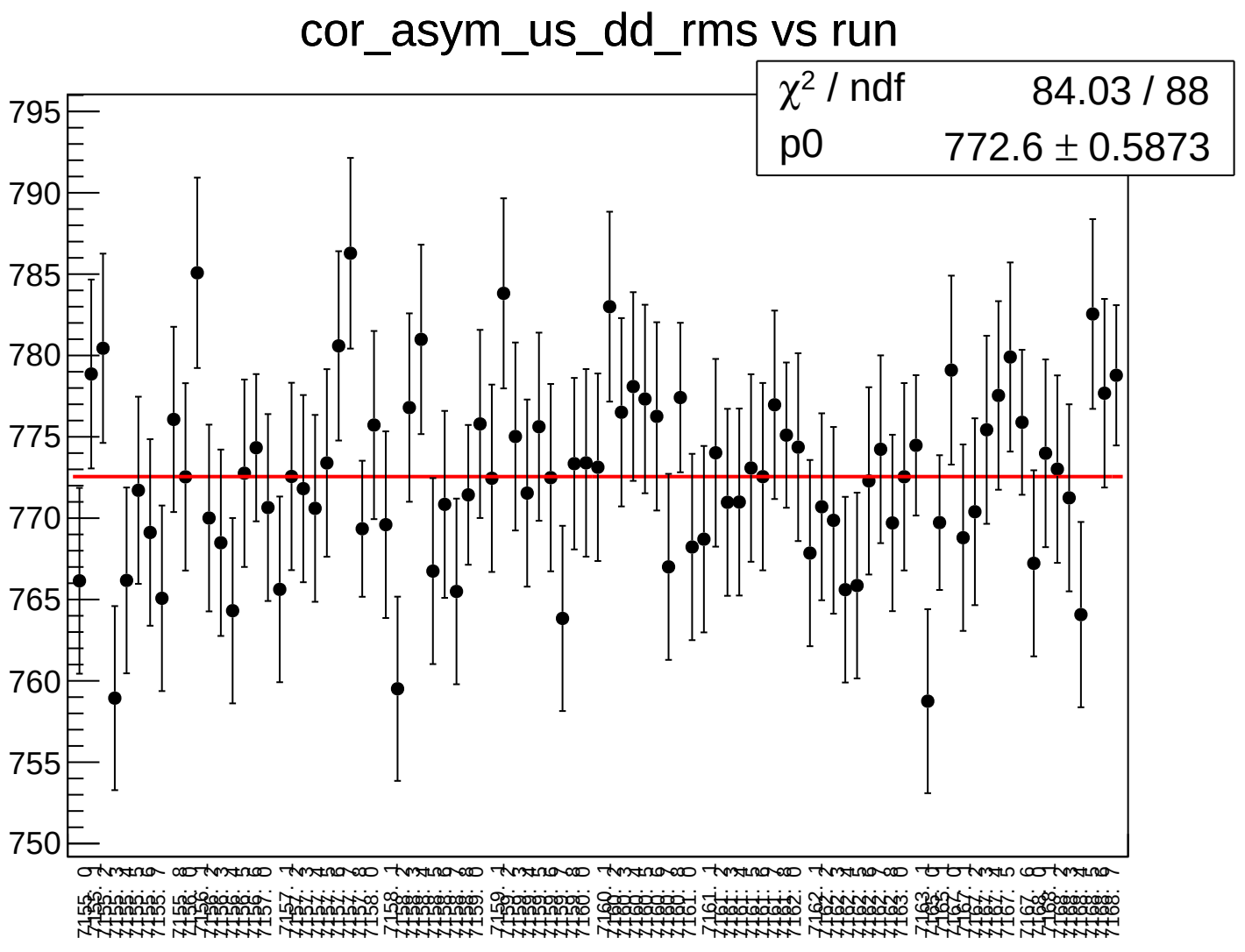

reg_asym_us_dd_rms vs run
χ² / ndf 84.03 / 88
p0 772.6 ± 0.5873
795
790
785
780
775
770
765
760
755
750

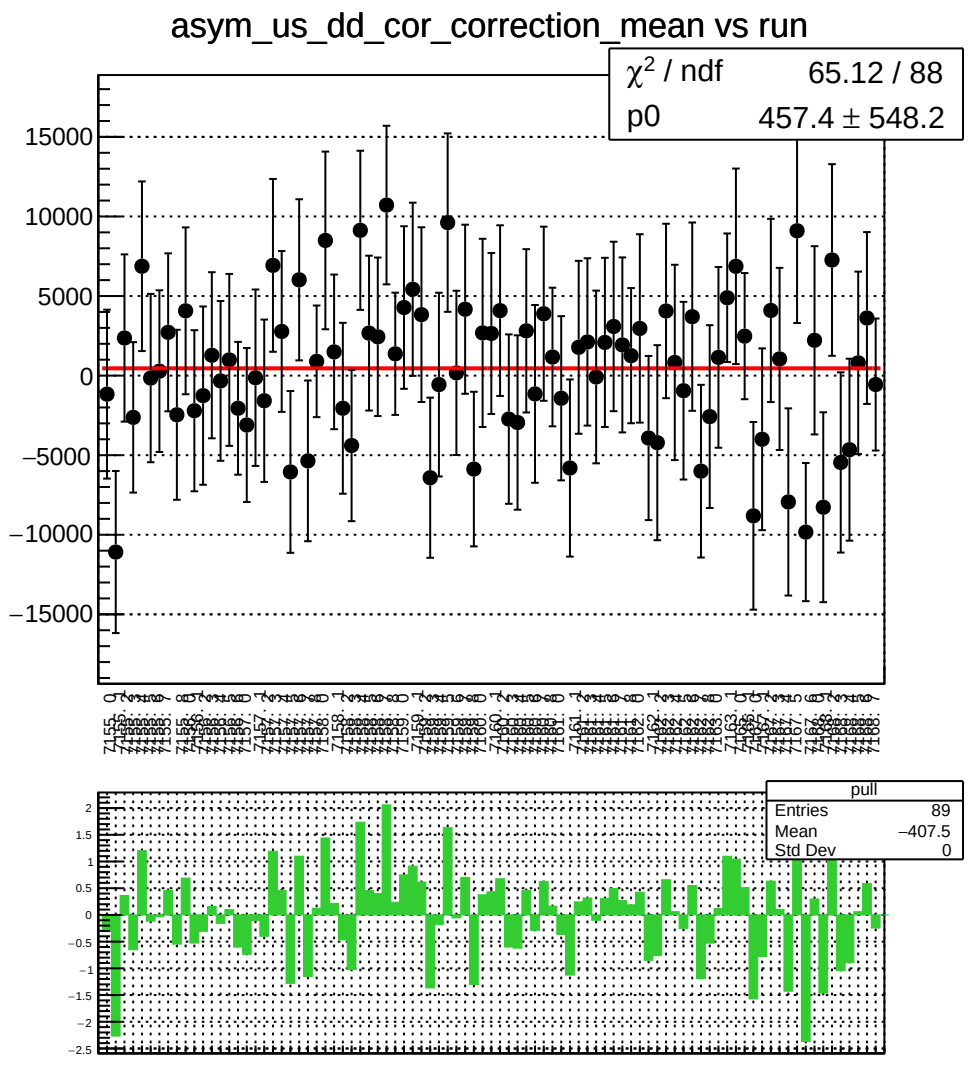

asym_us_dd_reg_correction_mean vs run
χ^2 / ndf 65.12 / 88
p0 457.4 ± 548.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −407.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.002819
Std Dev 0.8554
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

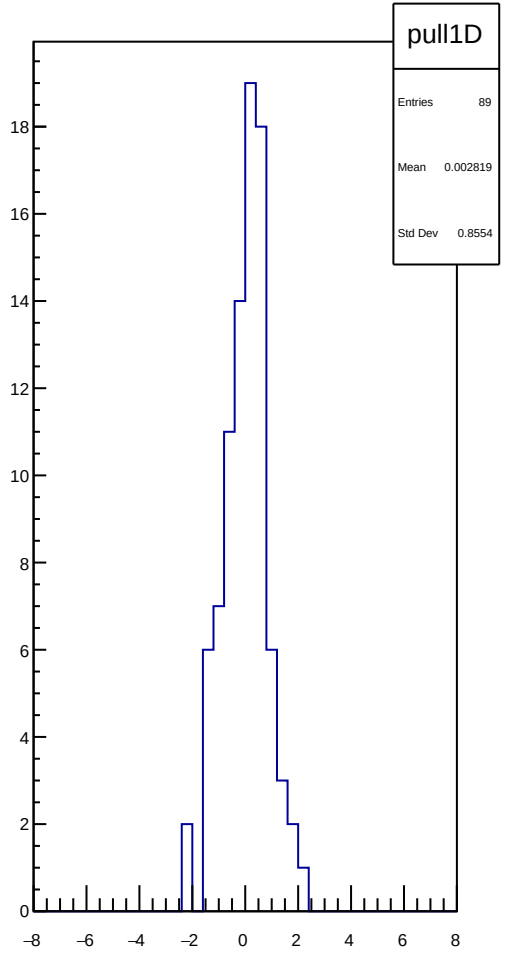

asym_us_dd_reg_correction_rms vs run
χ² / ndf 6613 / 88
p0 508.9 ± 0.3876
600
580
560
540
520
500
480
460
440

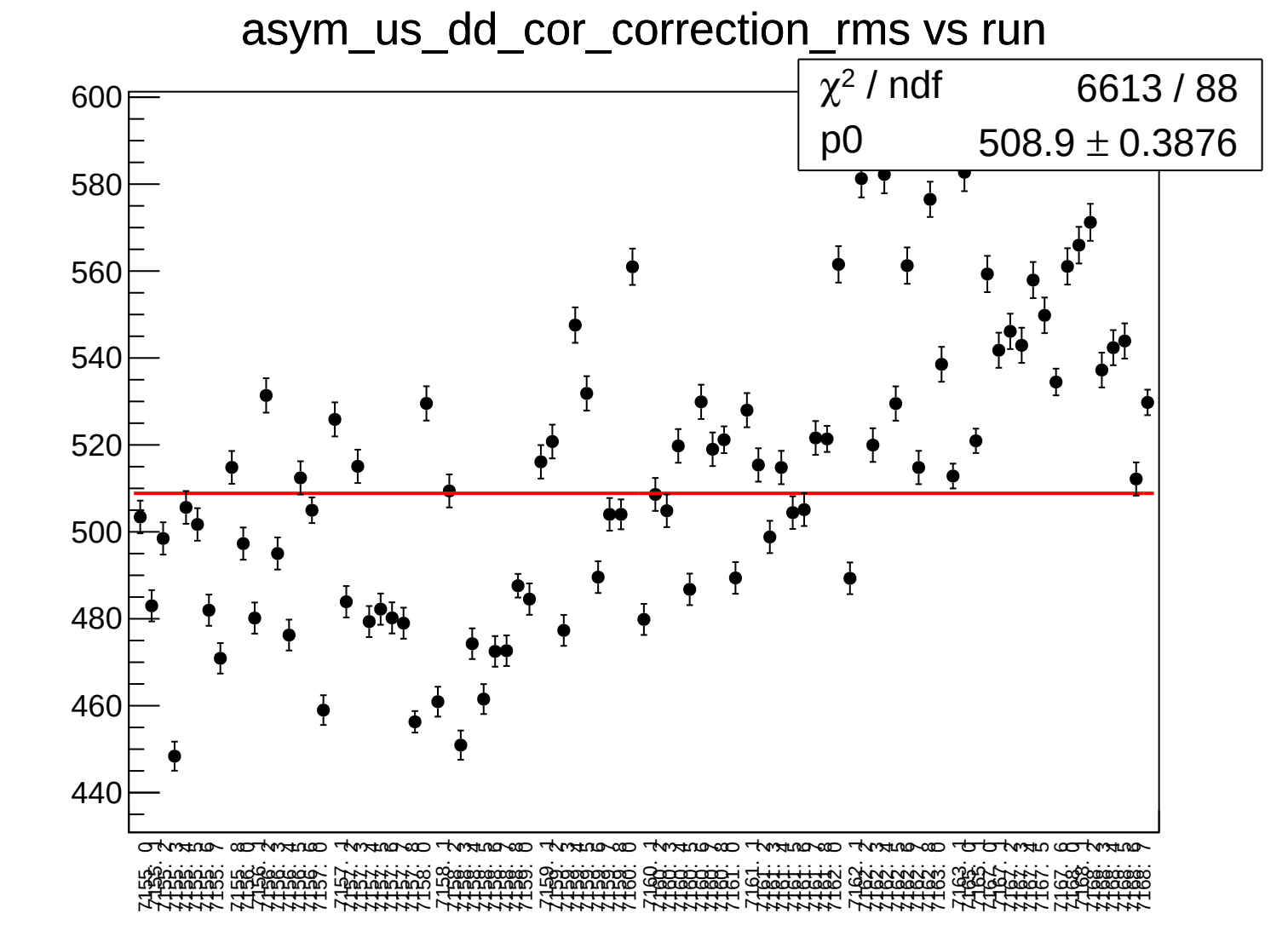

cor_asym_us_dd_mean vs run
χ² / ndf 90.48 / 88
p0 137.4 ± 830.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −262.7
Std Dev 0
2
1
0
−1
−2

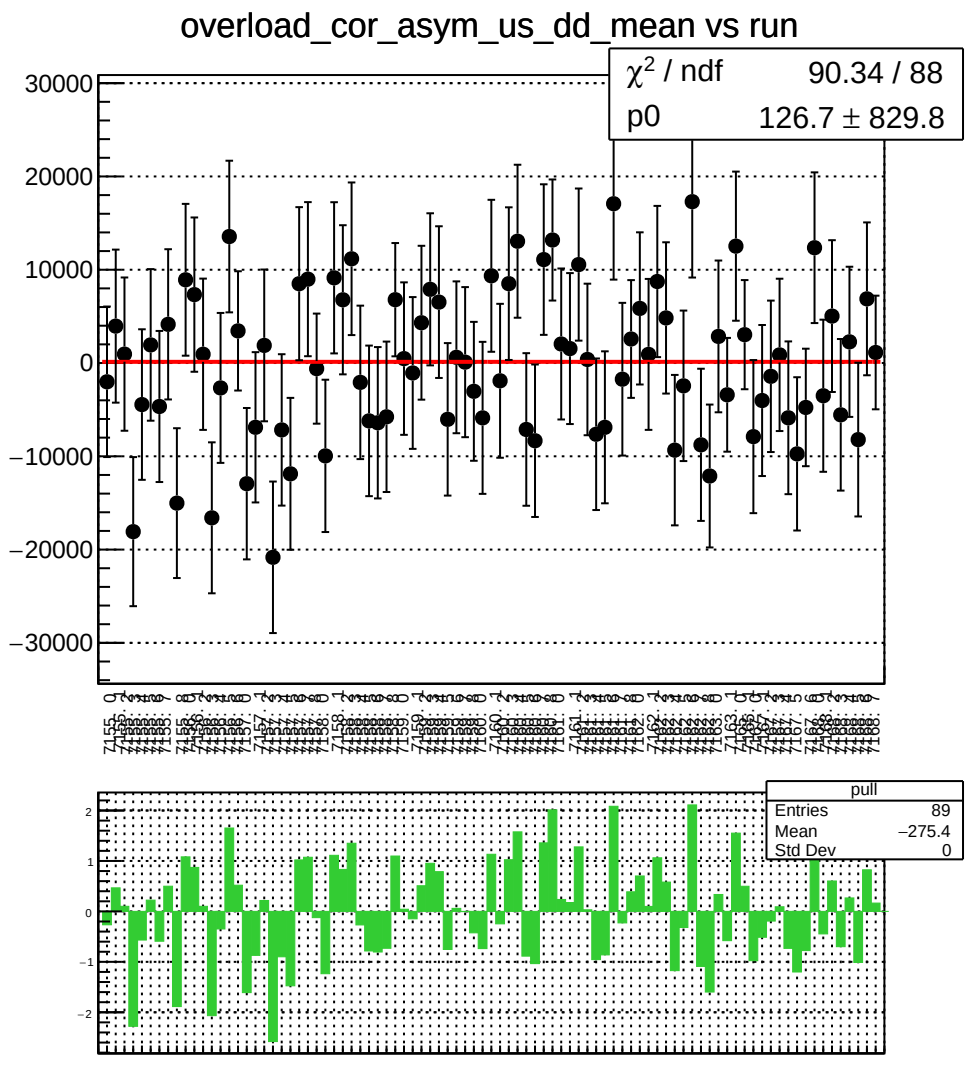

pull1D
Entries 89
Mean −0.008018
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

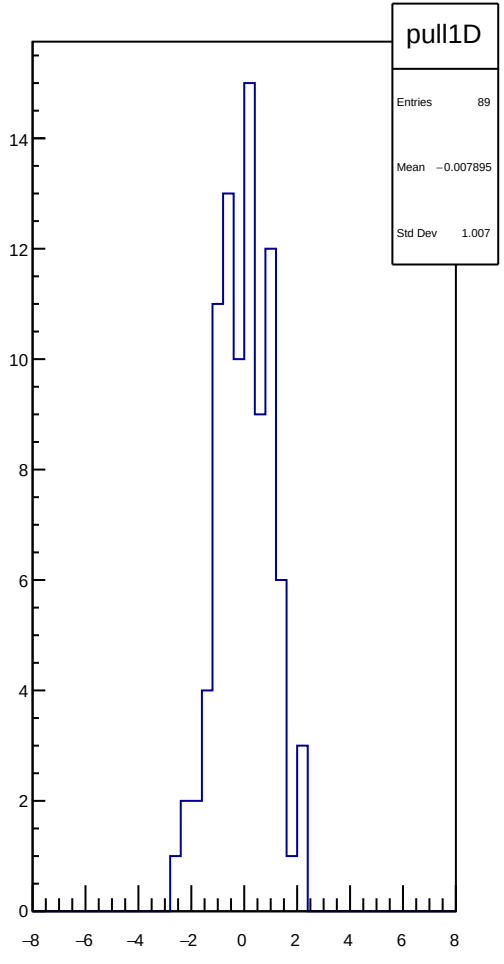

cor_asym_us_dd_rms vs run
χ² / ndf 84.03 / 88
p0 772.6 ± 0.5873
795
790
785
780
775
770
765
760
755
750

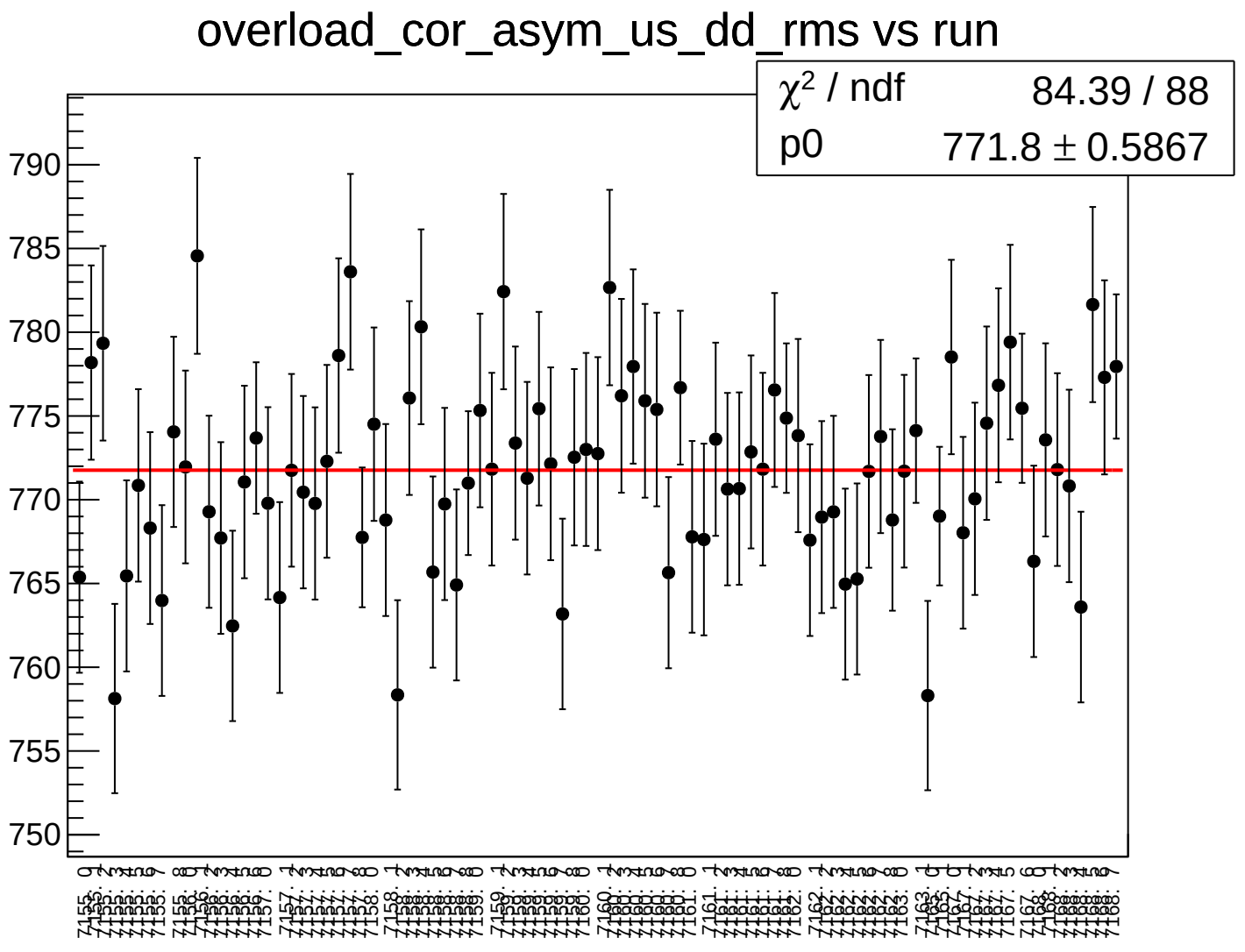

asym_us_dd_cor_correction_mean vs run
χ² / ndf 65.12 / 88
p0 457.4 ± 548.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −407.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

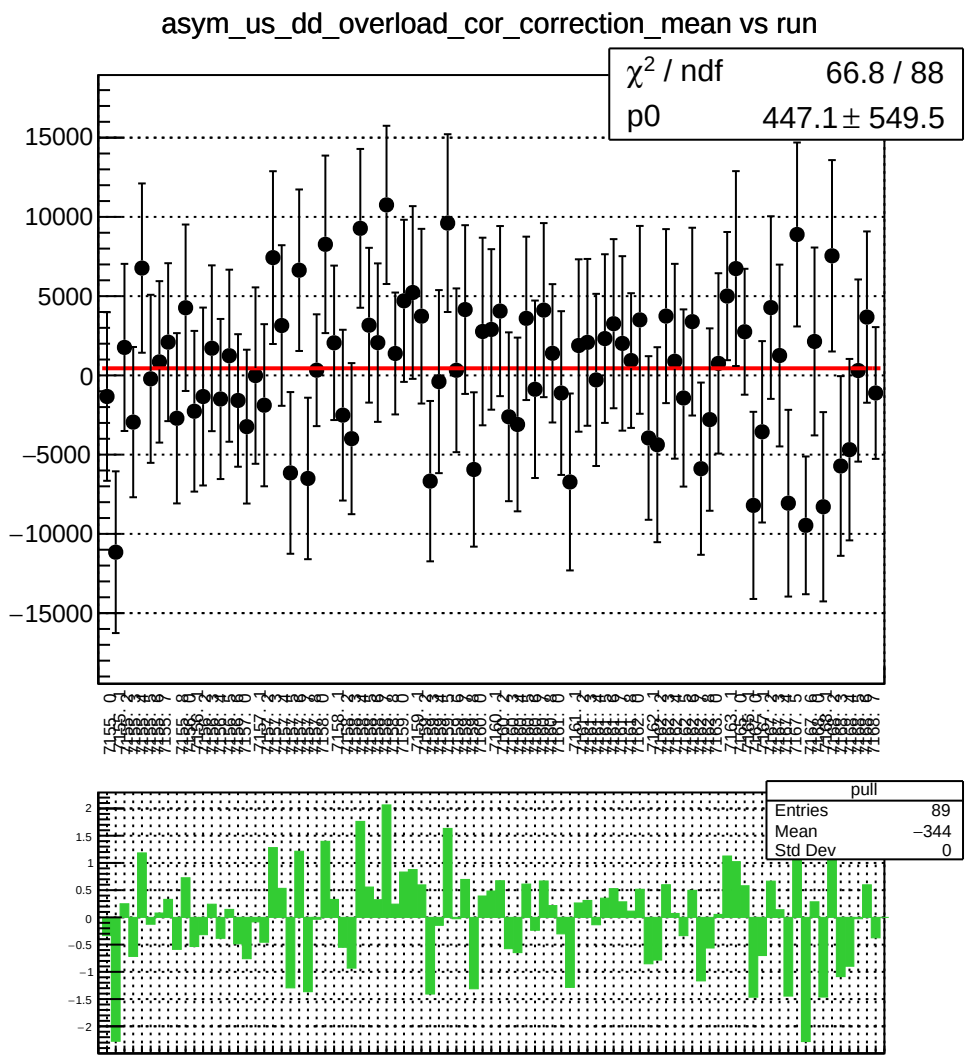

pull1D
Entries 89
Mean 0.002819
Std Dev 0.8554
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

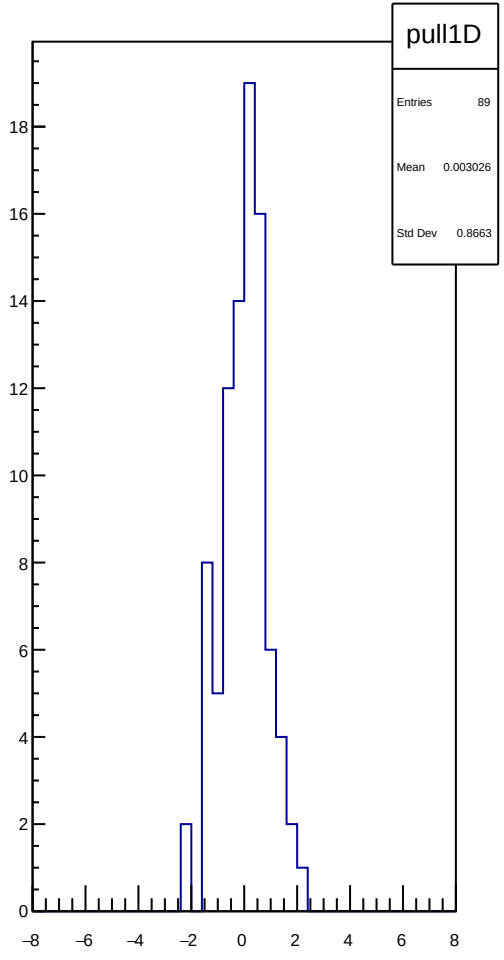

asym_us_dd_cor_correction_rms vs run
χ² / ndf 6613 / 88
p0 508.9 ± 0.3876
600
580
560
540
520
500
480
460
440

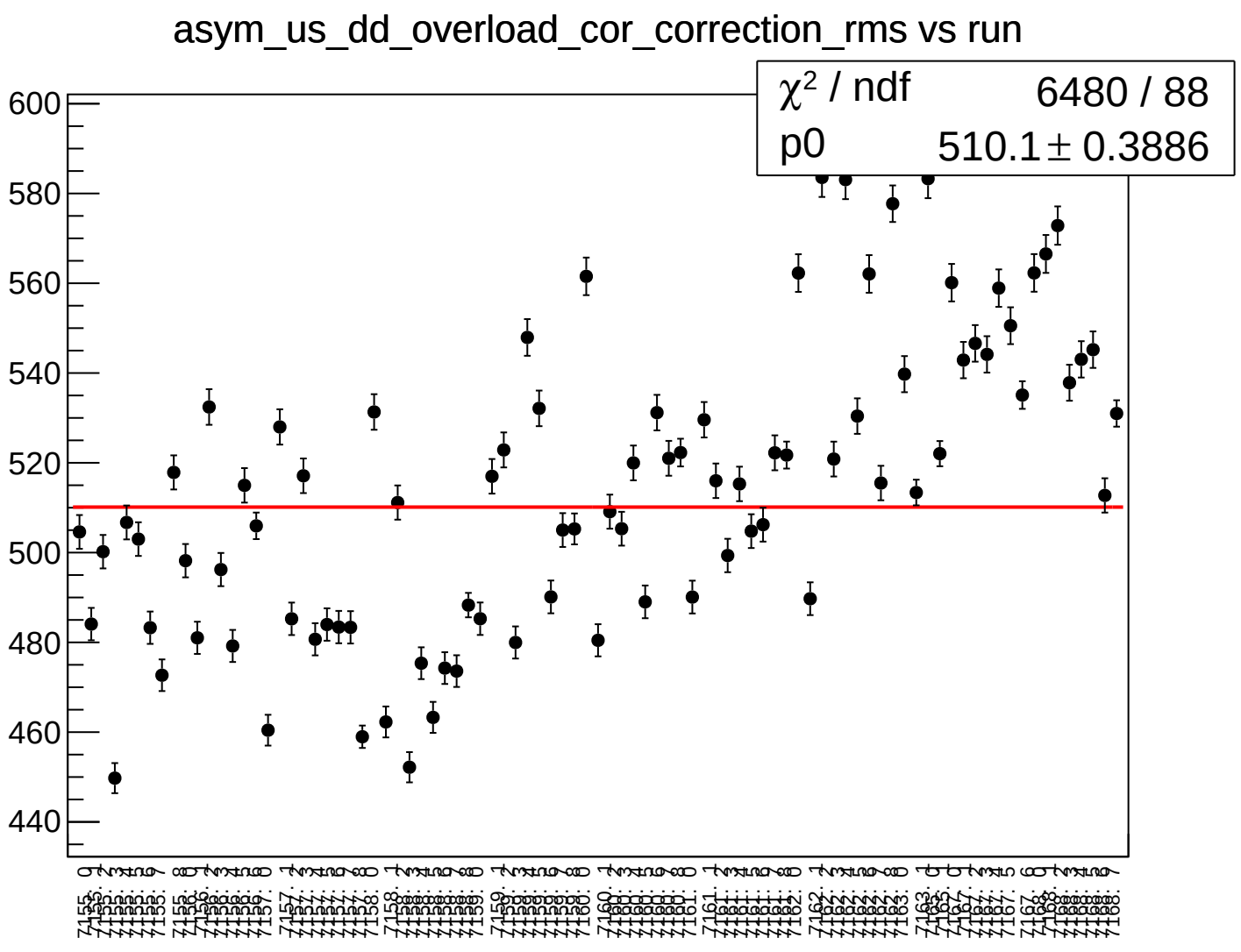

overload_cor_asym_us_dd_mean vs run
χ² / ndf 90.34 / 88
p0 126.7 ± 829.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −275.4
Std Dev 0
2
1
0
−1
−2

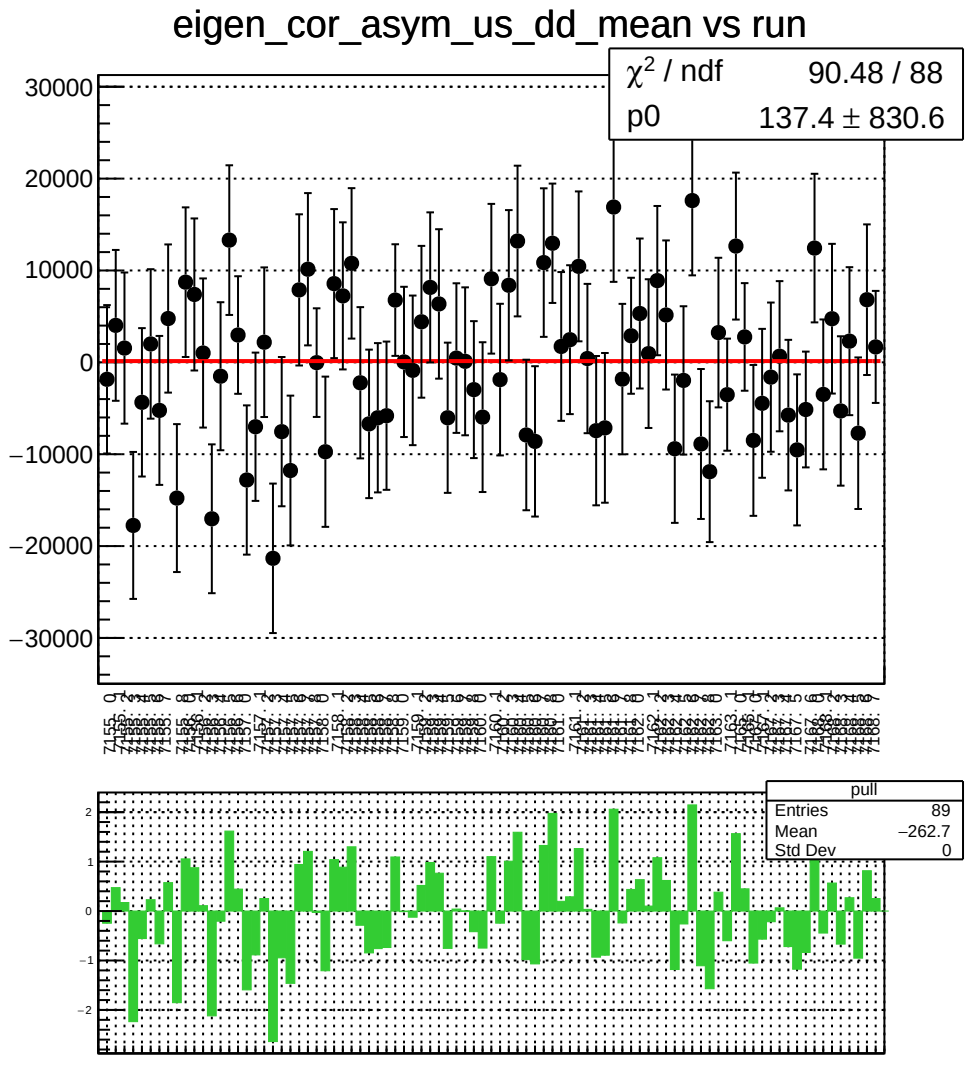

pull1D
Entries 89
Mean −0.007895
Std Dev 1.007
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

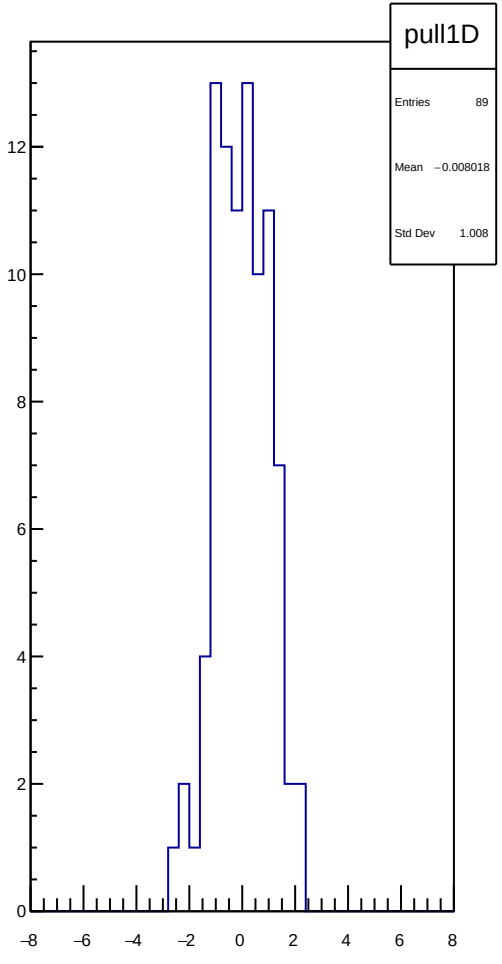

overload_cor_asym_us_dd_rms vs run
χ² / ndf 84.39 / 88
p0 771.8 ± 0.5867
790
785
780
775
770
765
760
755
750

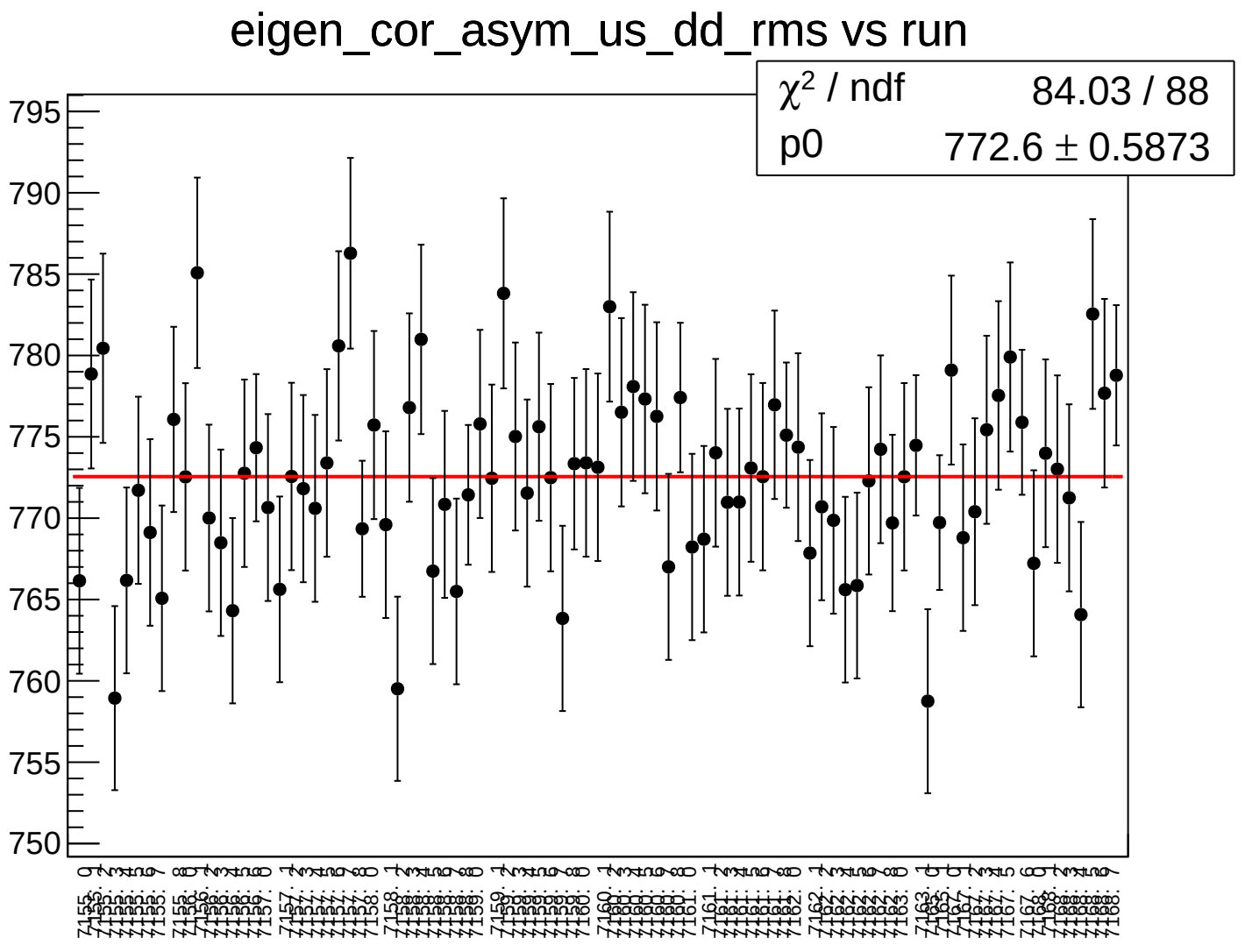

asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 66.8 / 88
p0 447.1 ± 549.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −344
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

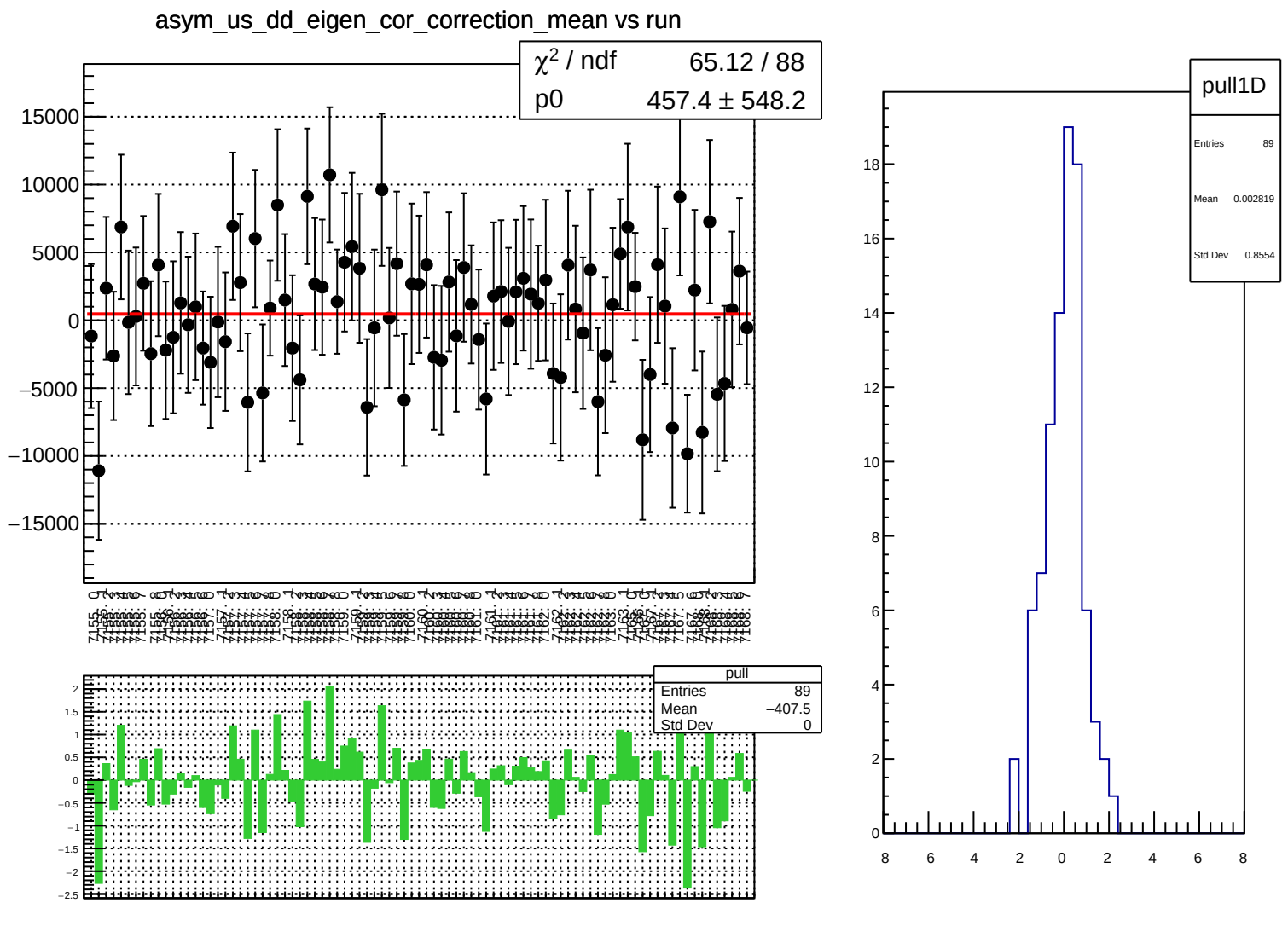

pull1D
Entries 89
Mean 0.003026
Std Dev 0.8663
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

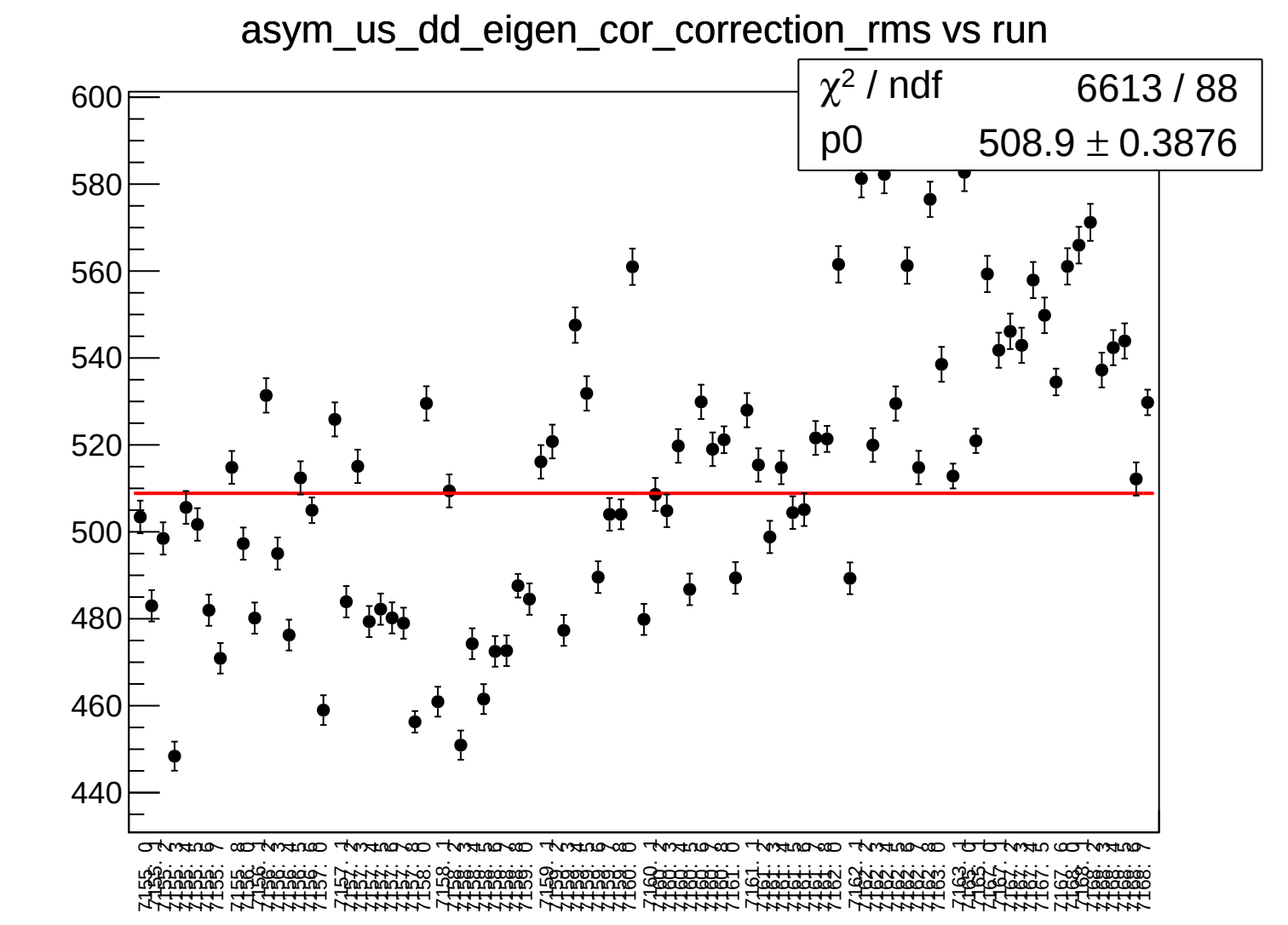

asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 6480 / 88
p0 510.1 ± 0.3886
600
580
560
540
520
500
480
460
440

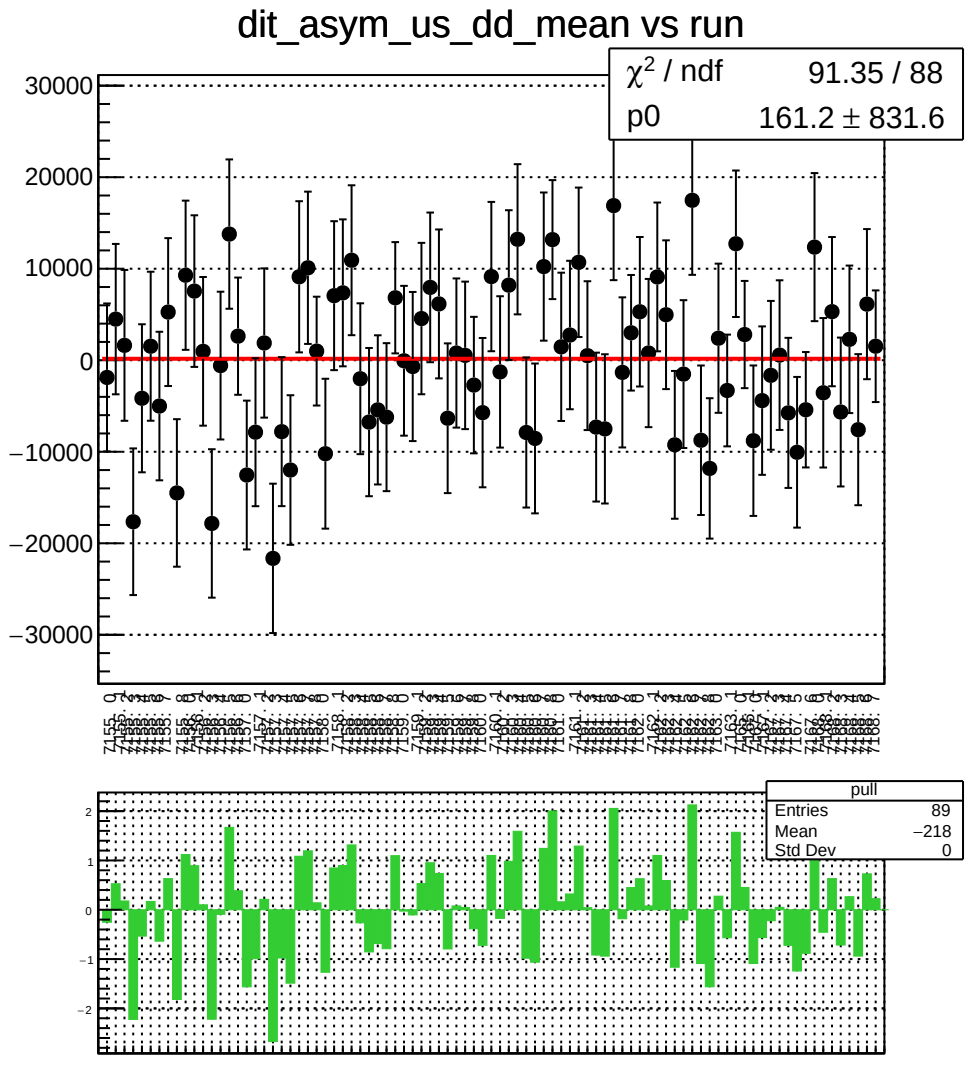

eigen_cor_asym_us_dd_mean vs run
χ² / ndf 90.48 / 88
p0 137.4 ± 830.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −262.7
Std Dev 0
2
1
0
−1
−2

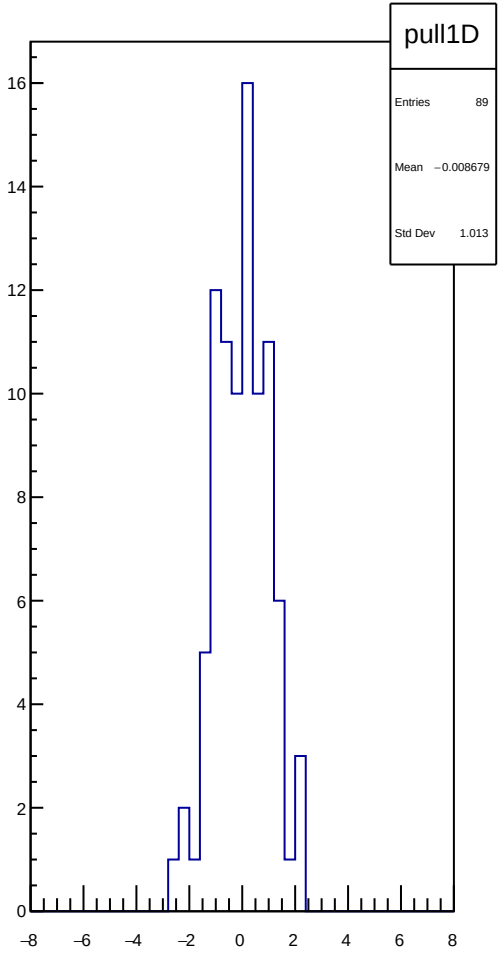

pull1D
Entries 89
Mean −0.008018
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

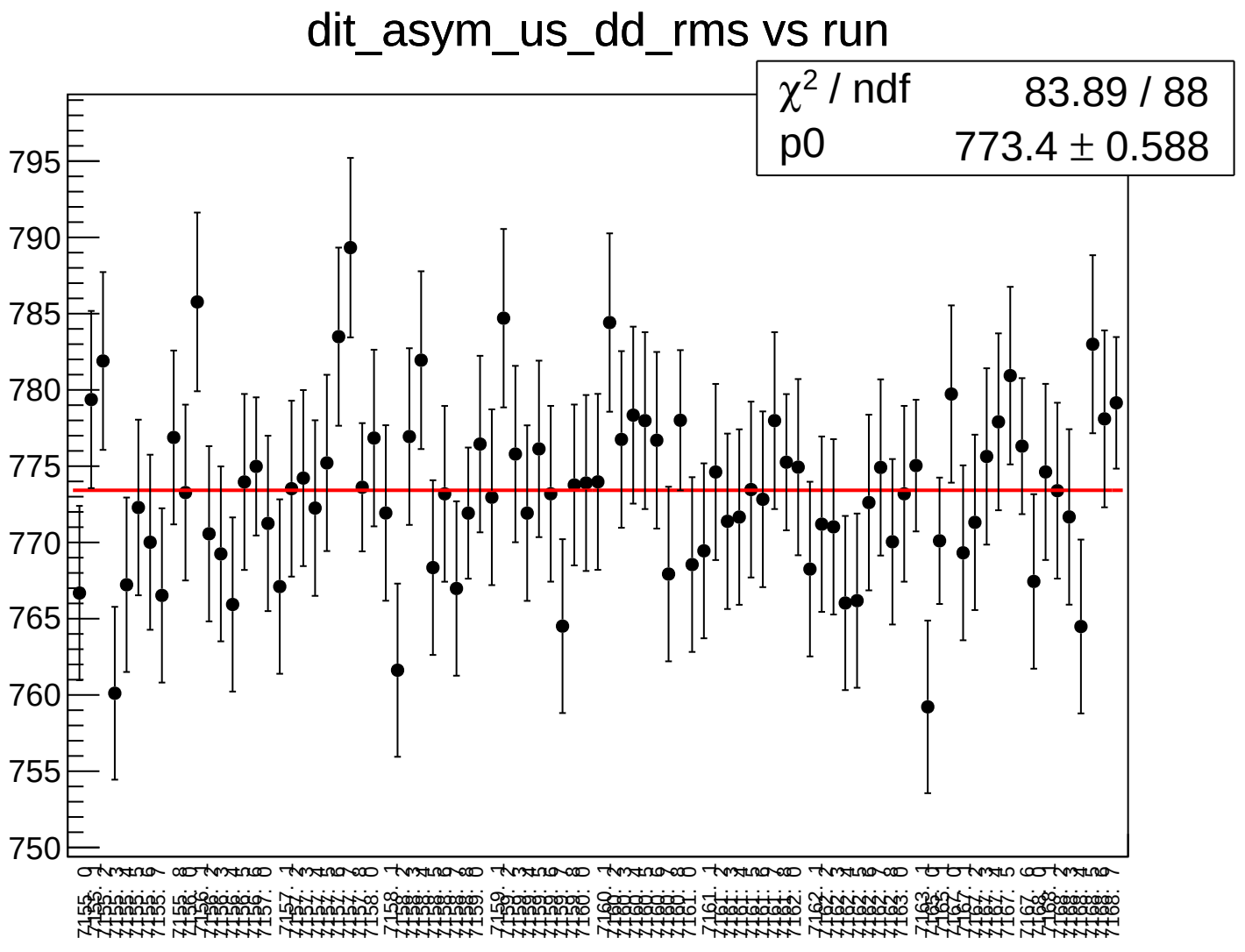

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 84.03 / 88
p0 772.6 ± 0.5873
795
790
785
780
775
770
765
760
755
750

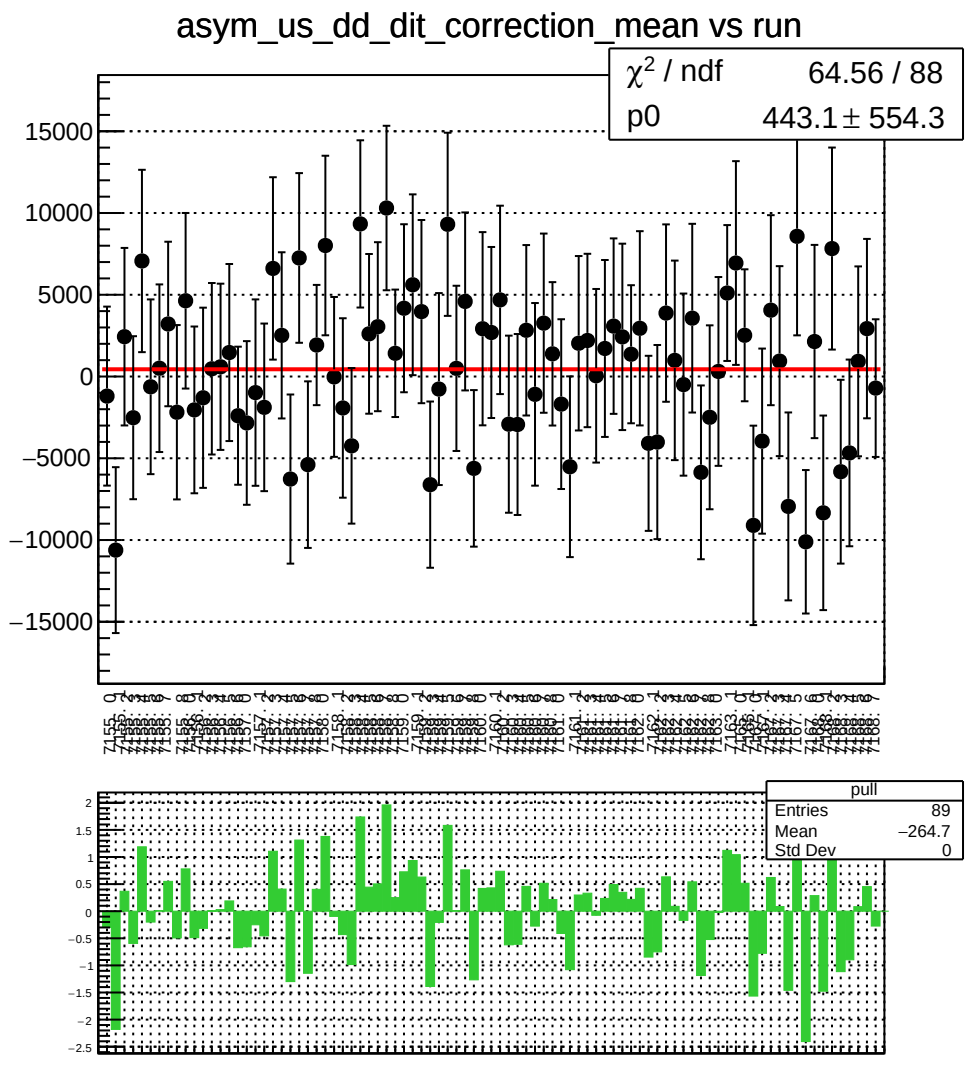

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 65.12 / 88
p0 457.4 ± 548.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −407.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.002819
Std Dev 0.8554
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

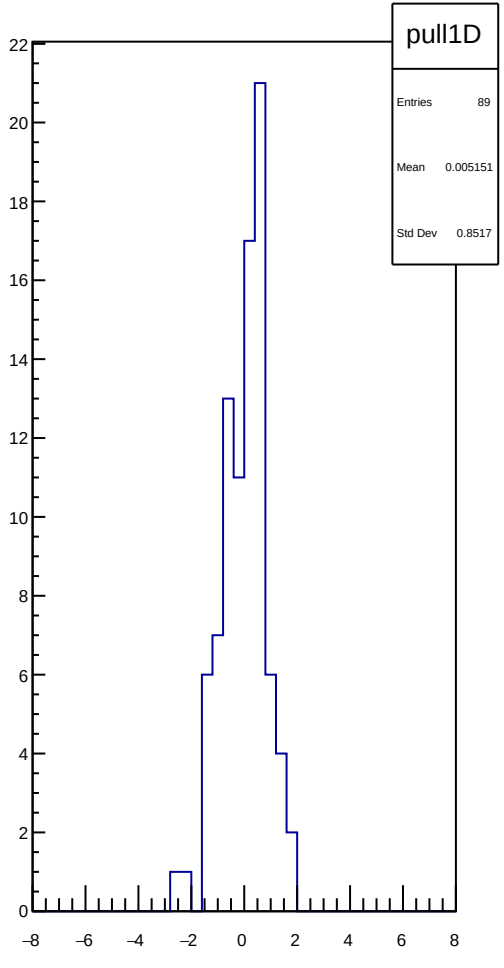

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 6613 / 88
p0 508.9 ± 0.3876
600
580
560
540
520
500
480
460
440

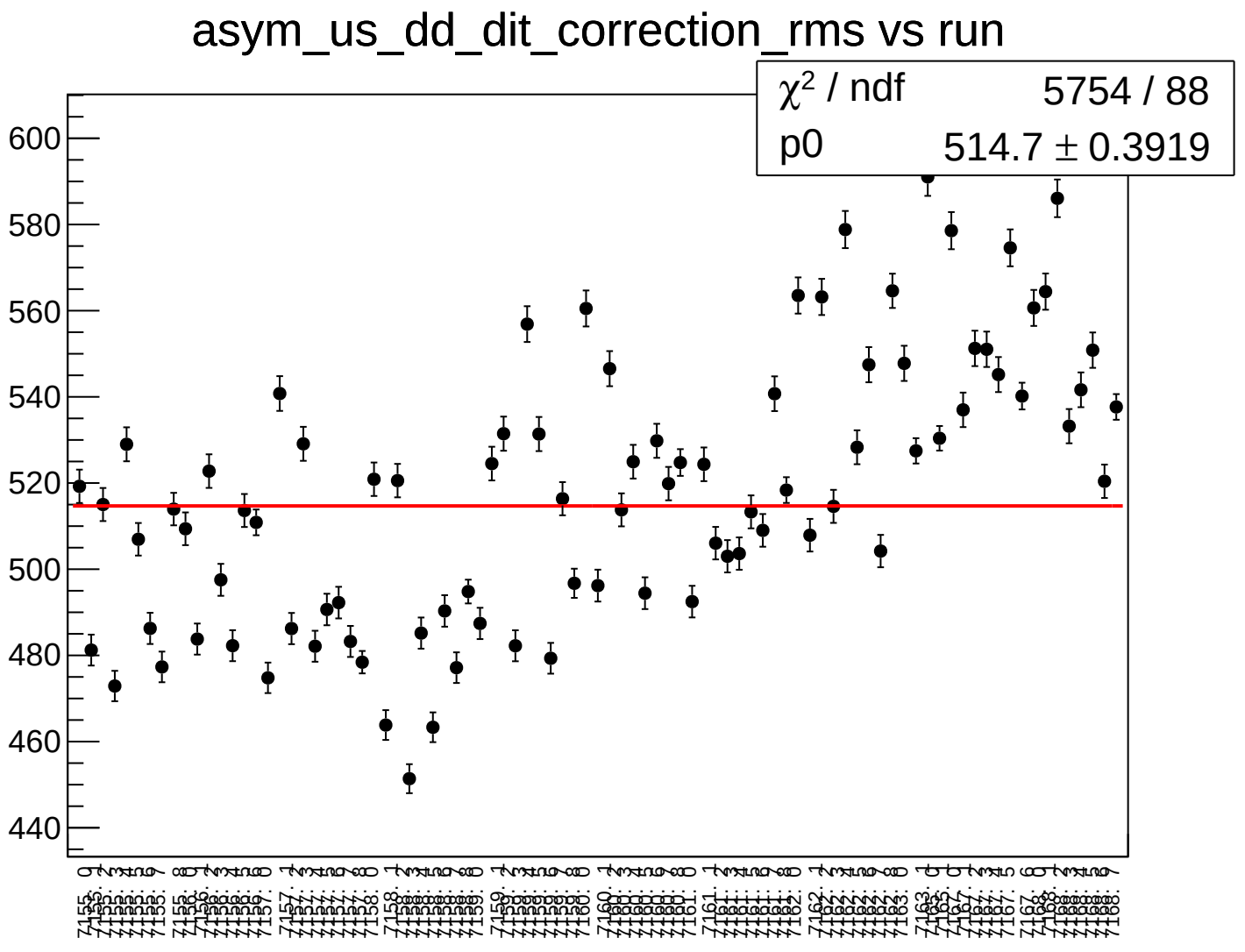

dit_asym_us_dd_mean vs run
χ² / ndf 91.35 / 88
p0 161.2 ± 831.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −218
Std Dev 0
2
1
0
−1
−2

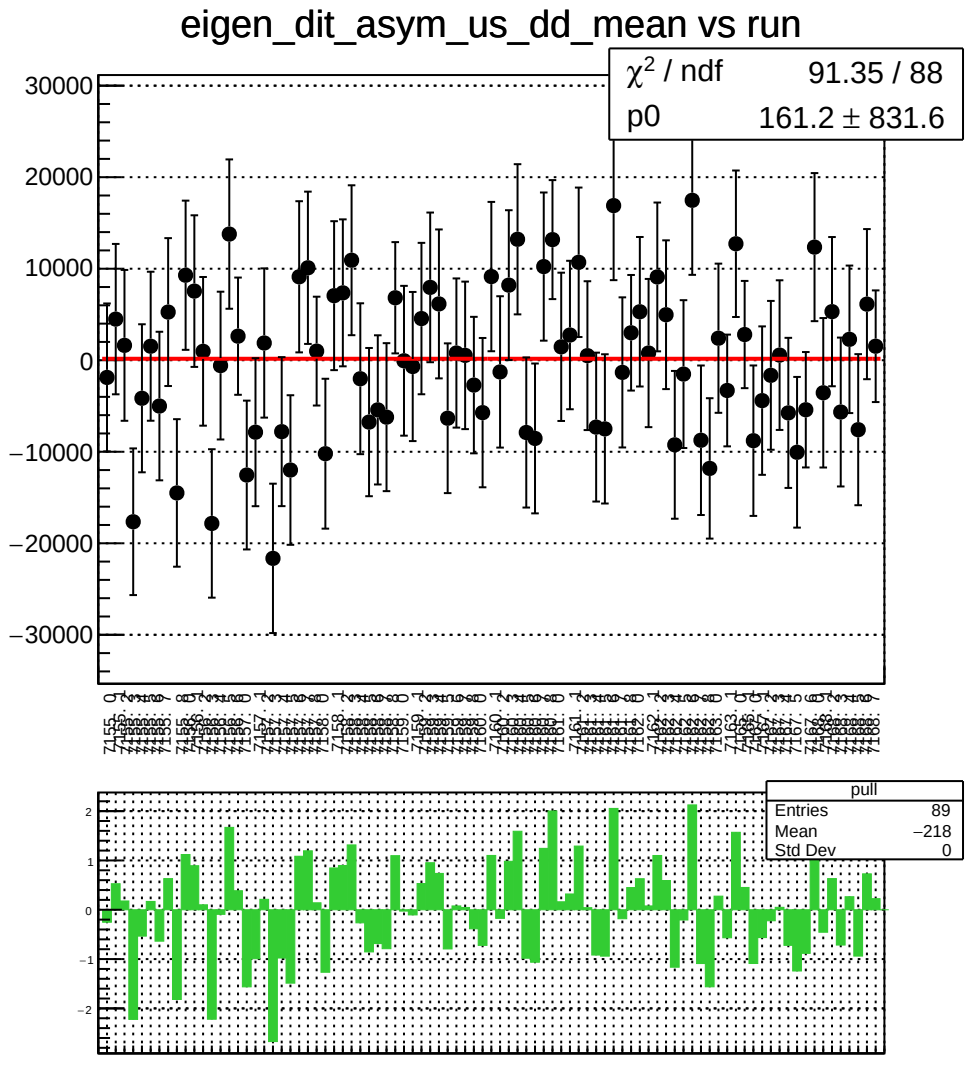

pull1D
Entries 89
Mean −0.008679
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

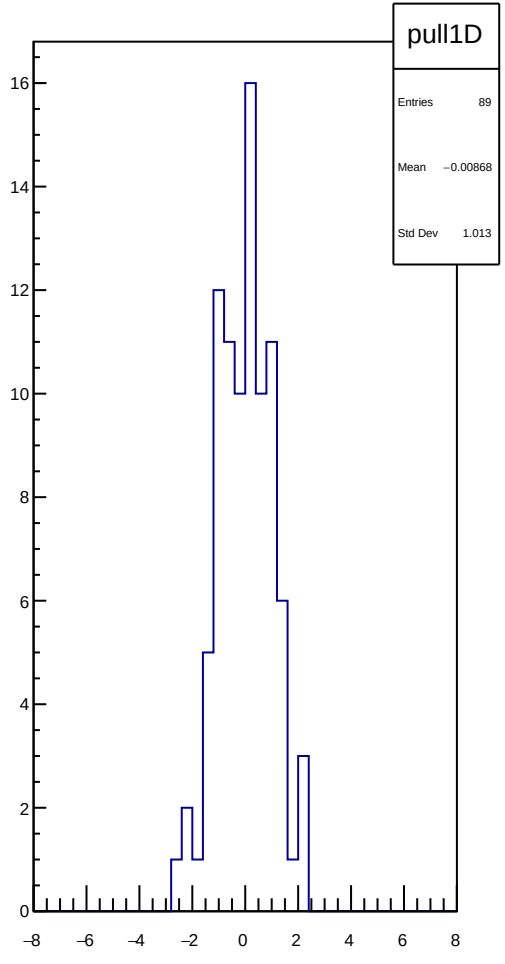

dit_asym_us_dd_rms vs run
χ^2 / ndf 83.89 / 88
p0 773.4 ± 0.588
795
790
785
780
775
770
765
760
755
750

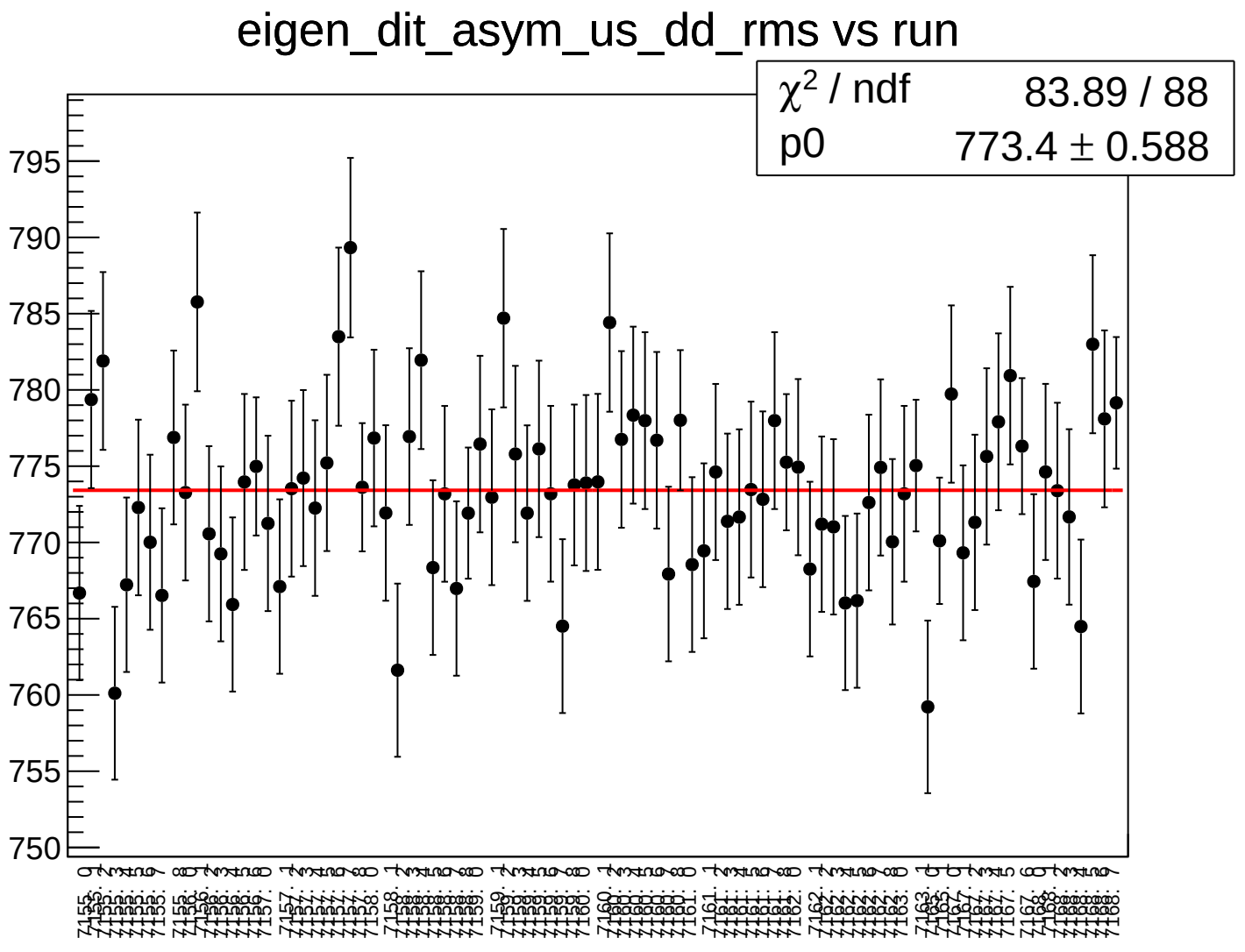

asym_us_dd_dit_correction_mean vs run
χ² / ndf 64.56 / 88
p0 443.1 ± 554.3
pull
Entries 89
Mean −264.7
Std Dev 0

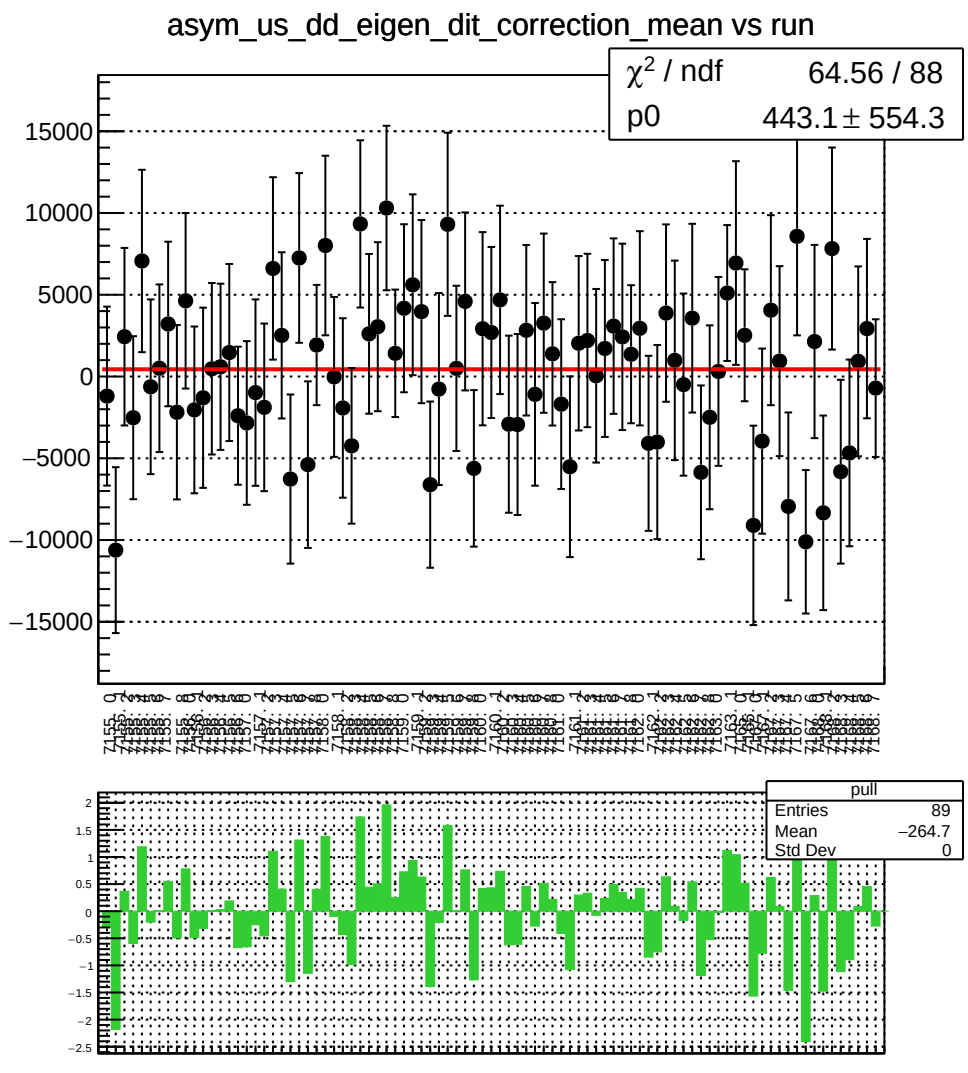

pull1D
Entries 89
Mean 0.005151
Std Dev 0.8517

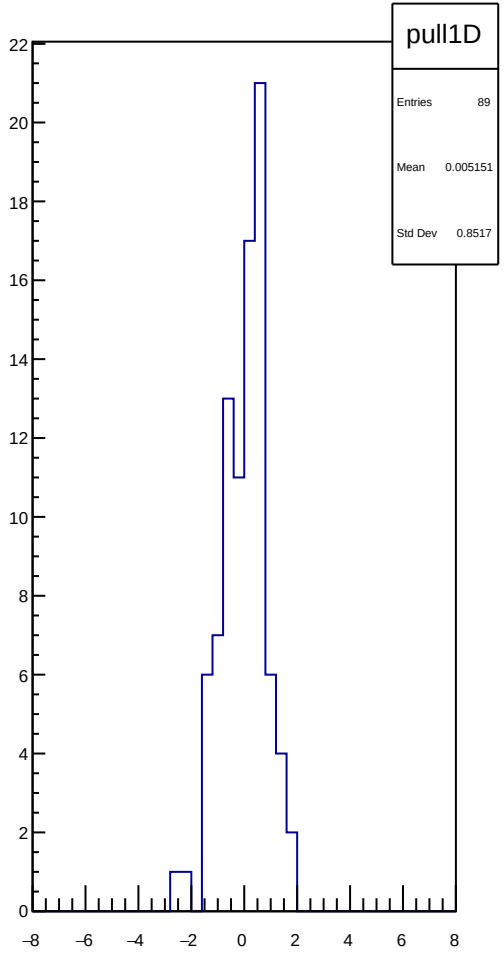

asym_us_dd_dit_correction_rms vs run
χ² / ndf 5754 / 88
p0 514.7 ± 0.3919
600
580
560
540
520
500
480
460
440

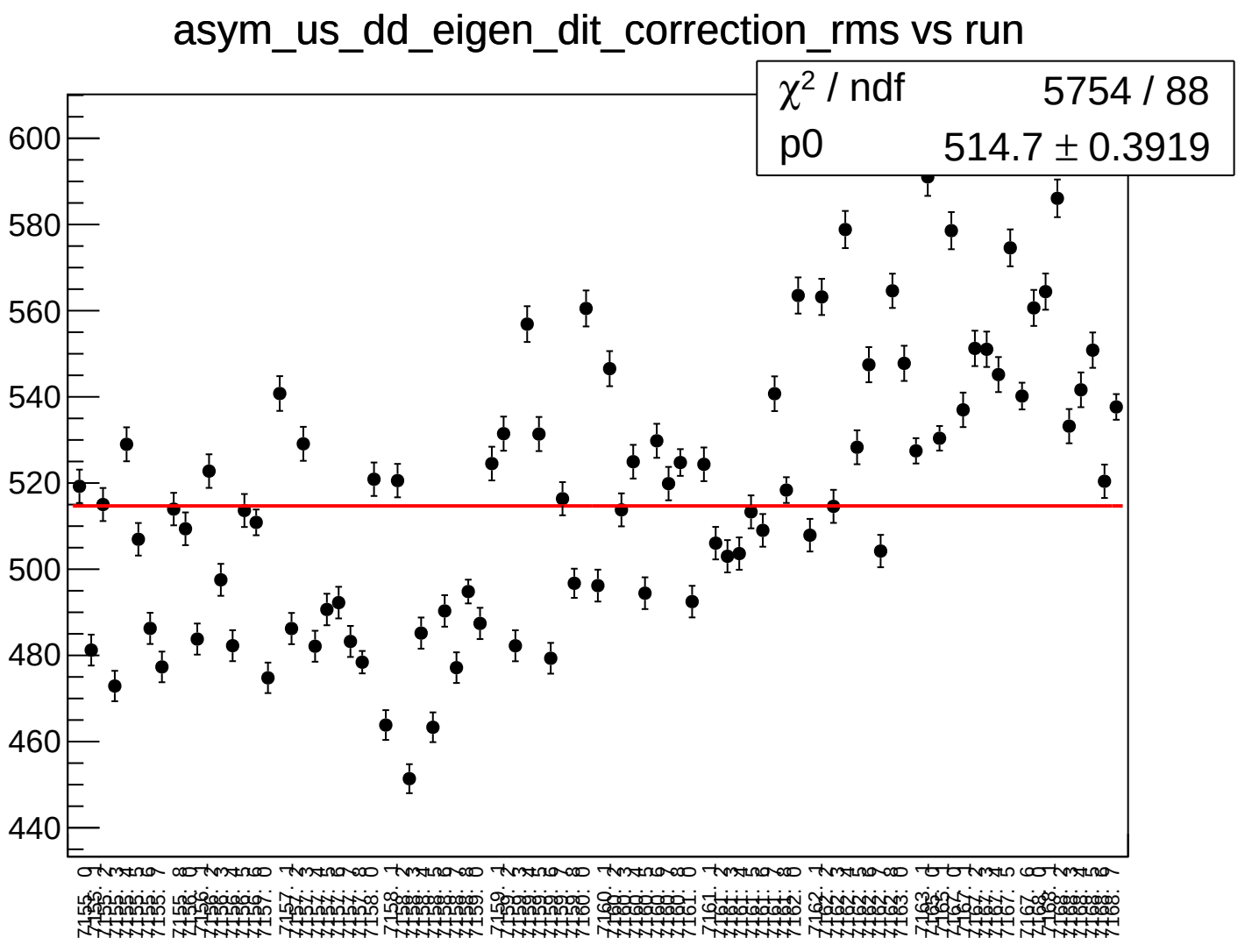

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 91.35 / 88
p0 161.2 ± 831.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −218
Std Dev 0
2
1
0
−1
−2

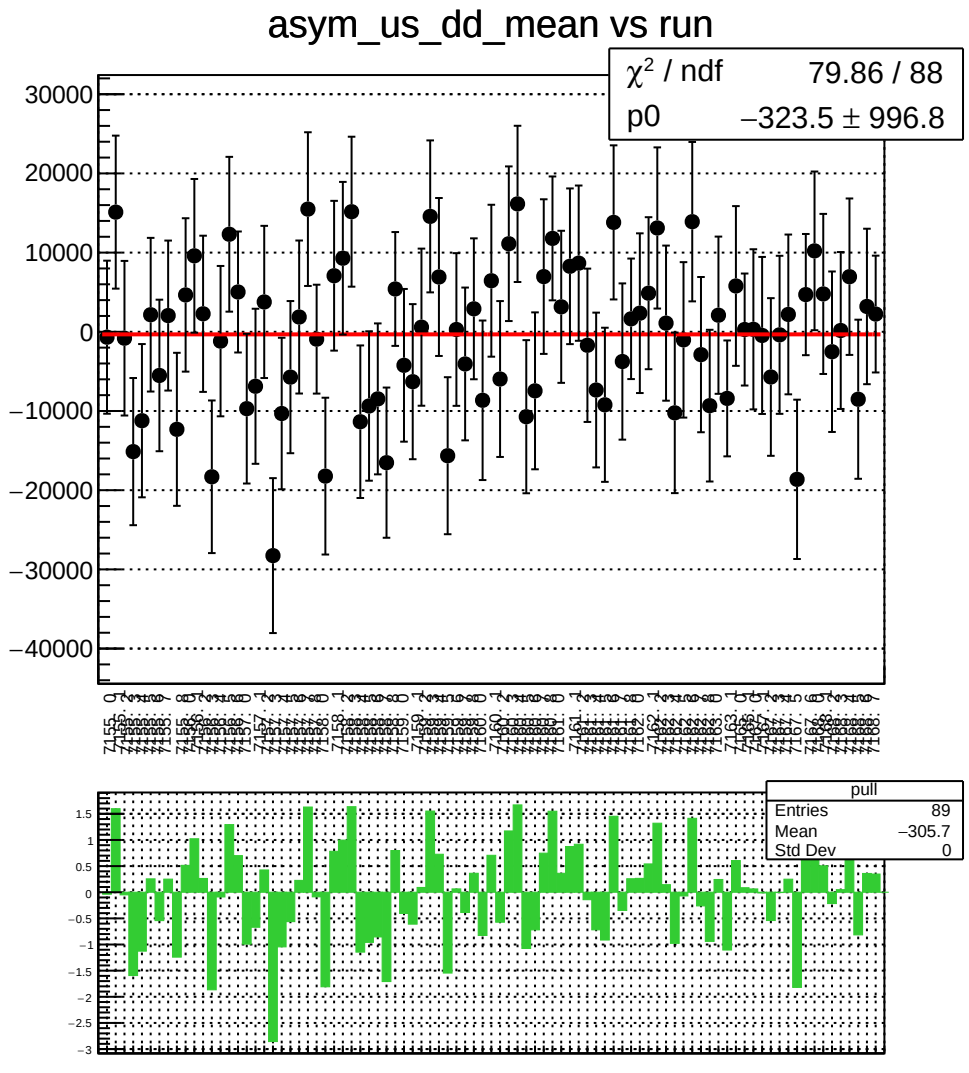

pull1D
Entries 89
Mean −0.00868
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

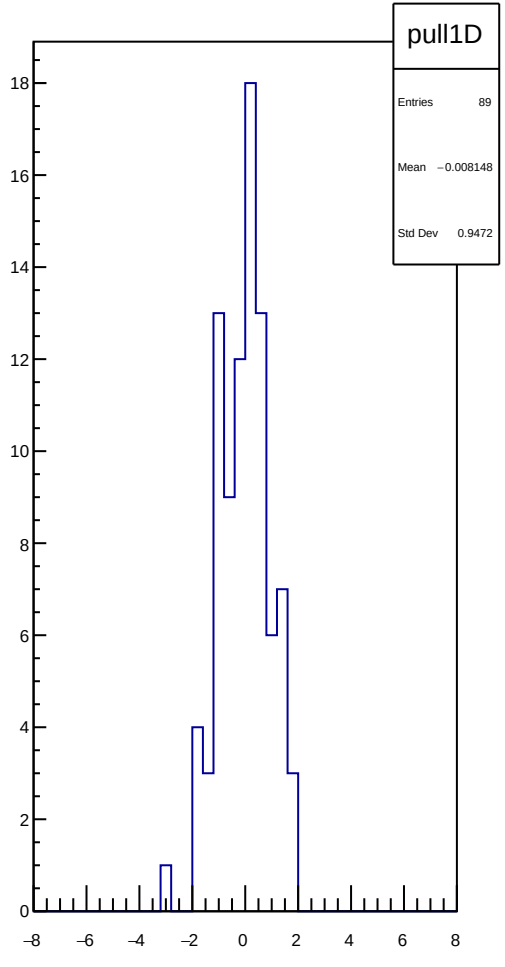

eigen_dit_asym_us_dd_rms vs run
χ^2 / ndf 83.89 / 88
p0 773.4 ± 0.588
795
790
785
780
775
770
765
760
755
750

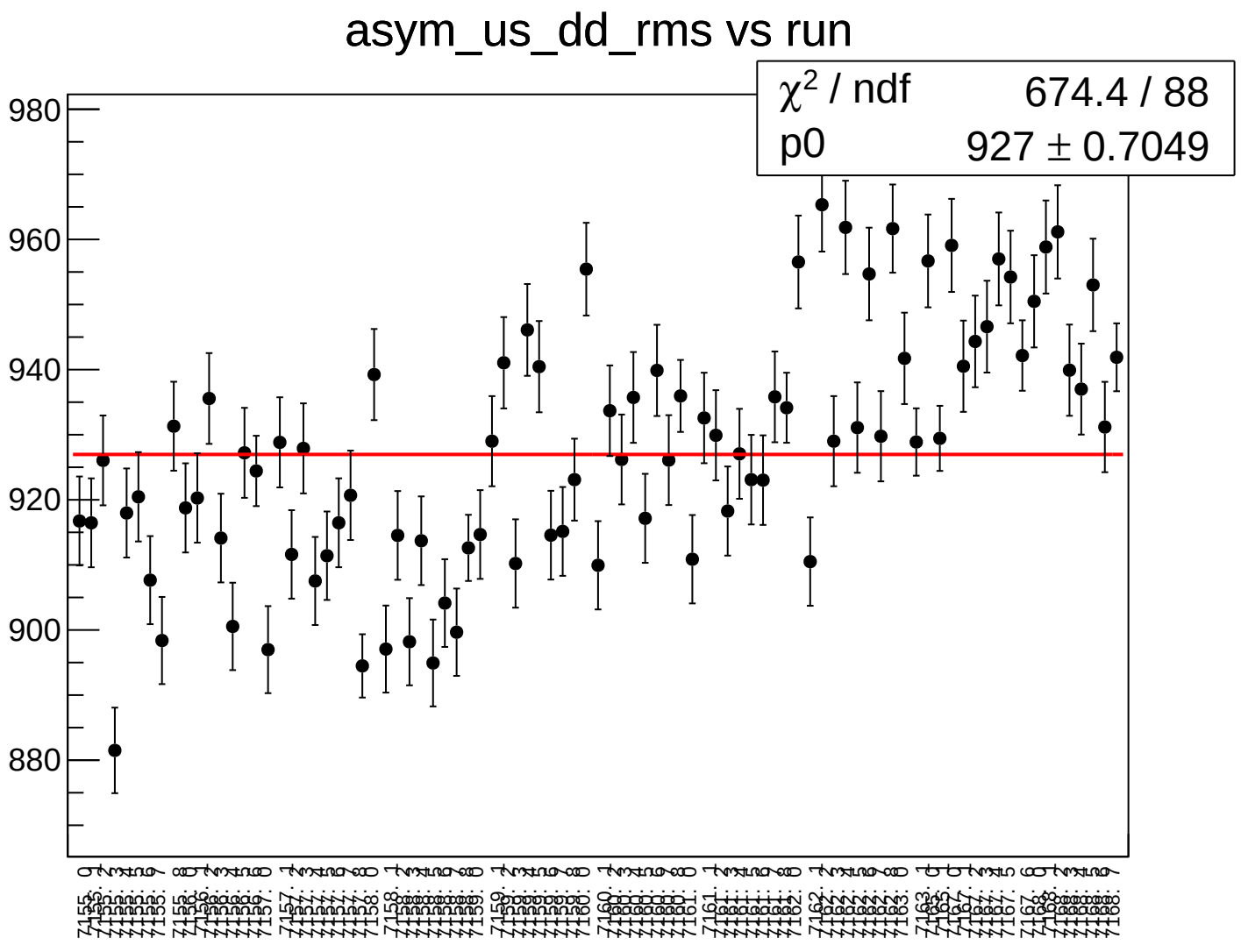

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.56 / 88
p0 443.1 ± 554.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −264.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

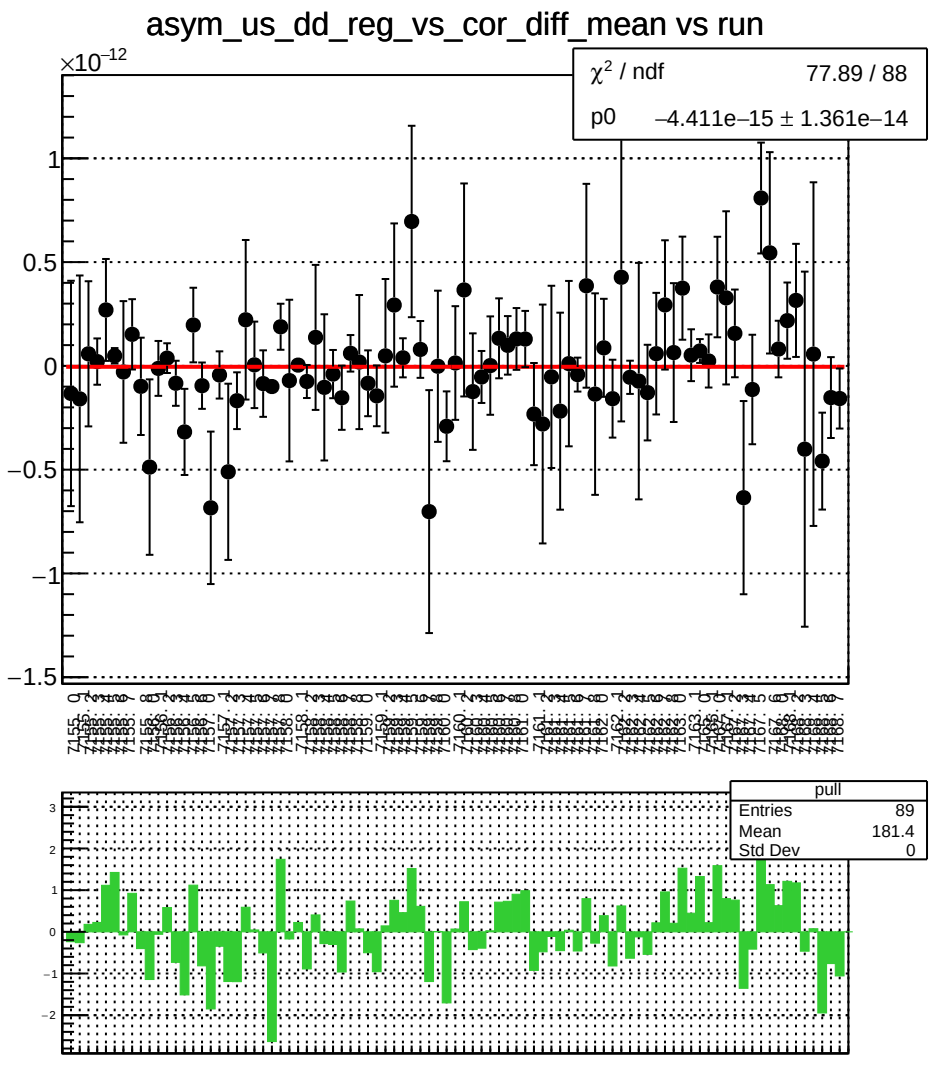

pull1D
Entries 89
Mean 0.005151
Std Dev 0.8517
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

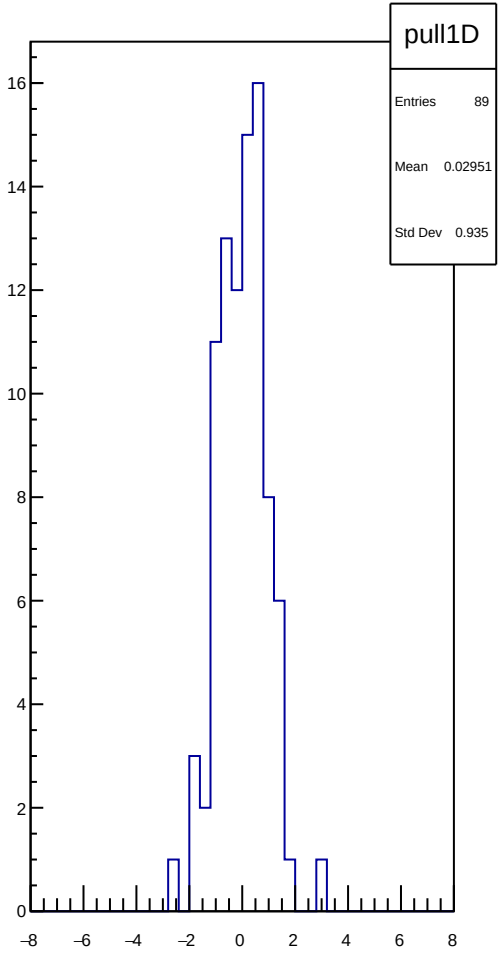

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 5754 / 88
p0 514.7 ± 0.3919
600
580
560
540
520
500
480
460
440

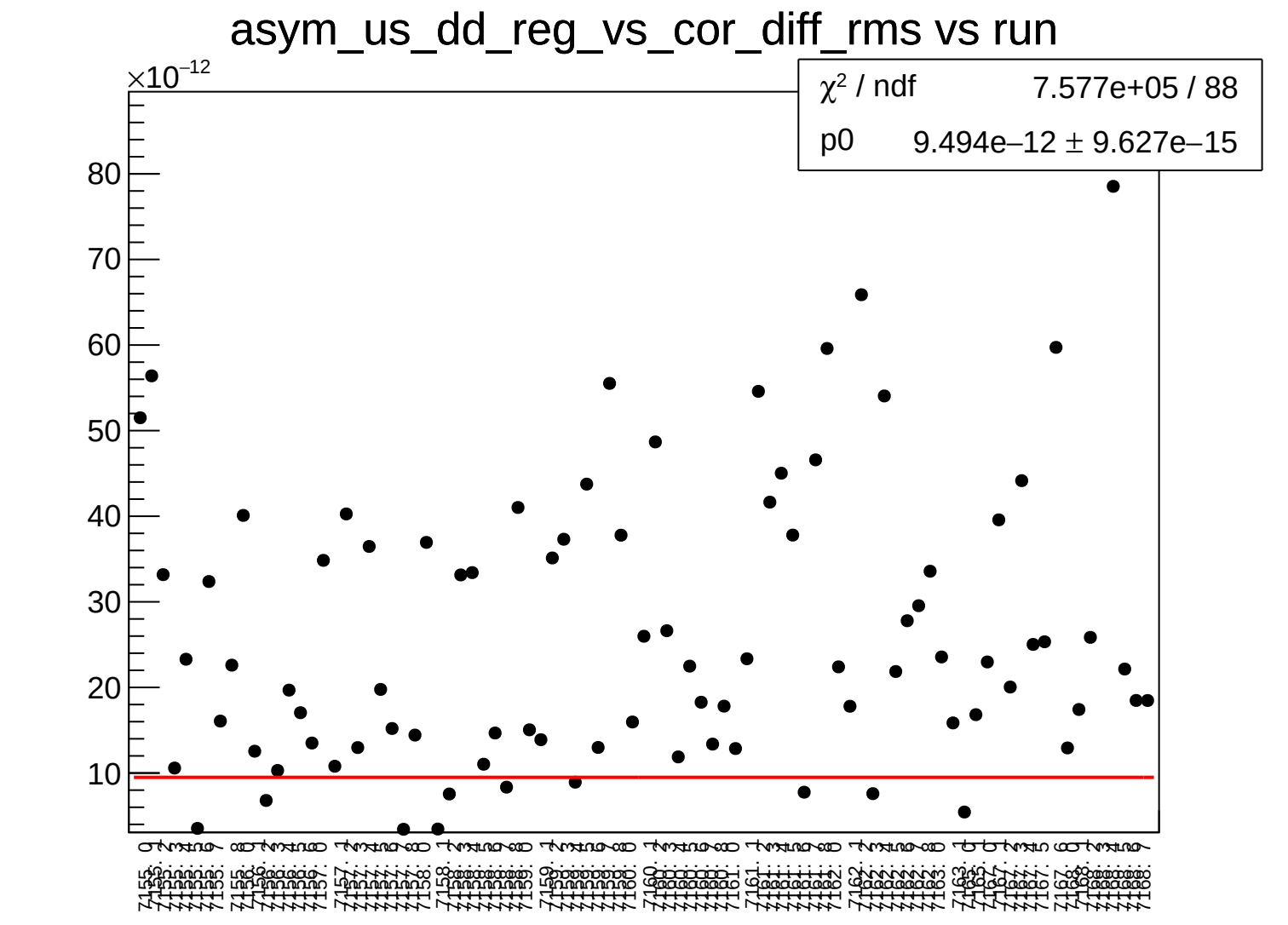

asym_us_dd_mean vs run
χ² / ndf 79.86 / 88
p0 −323.5 ± 996.8
pull
Entries 89
Mean −305.7
Std Dev 0

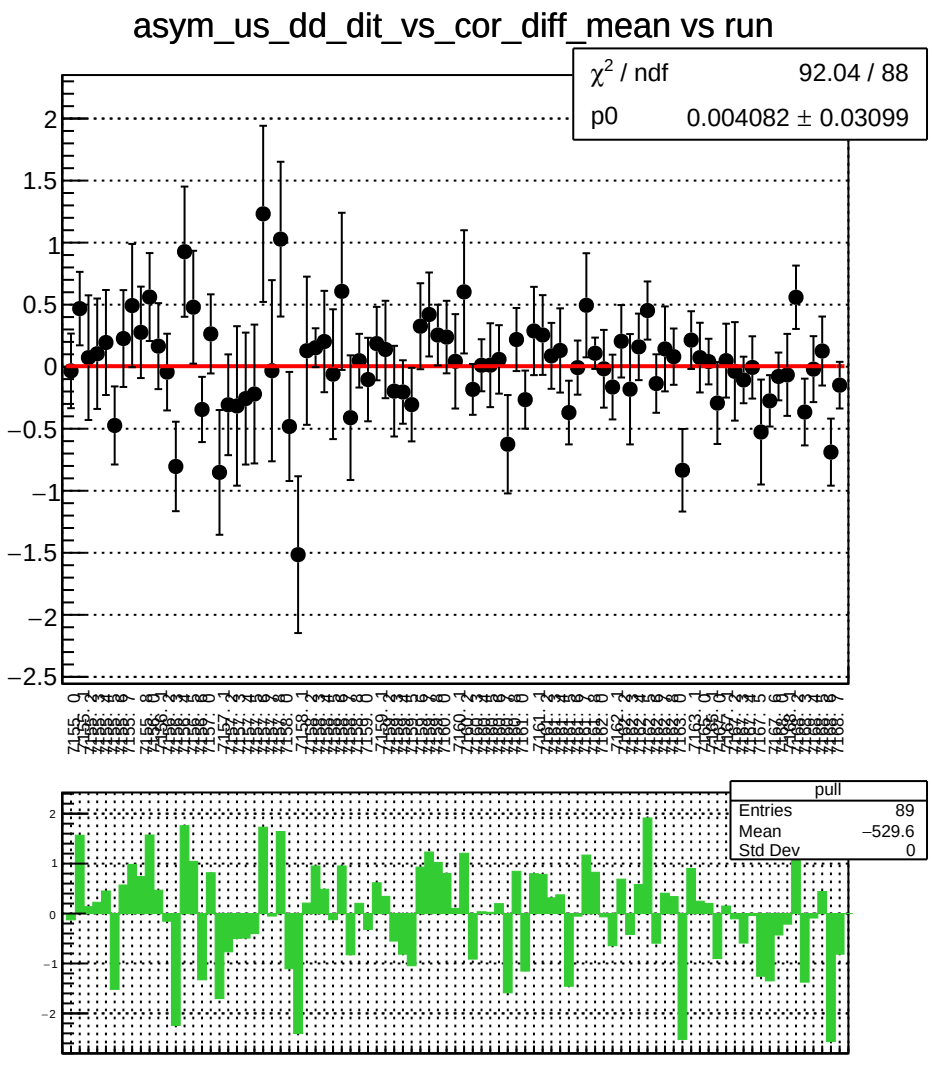

pull1D
Entries 89
Mean −0.008148
Std Dev 0.9472

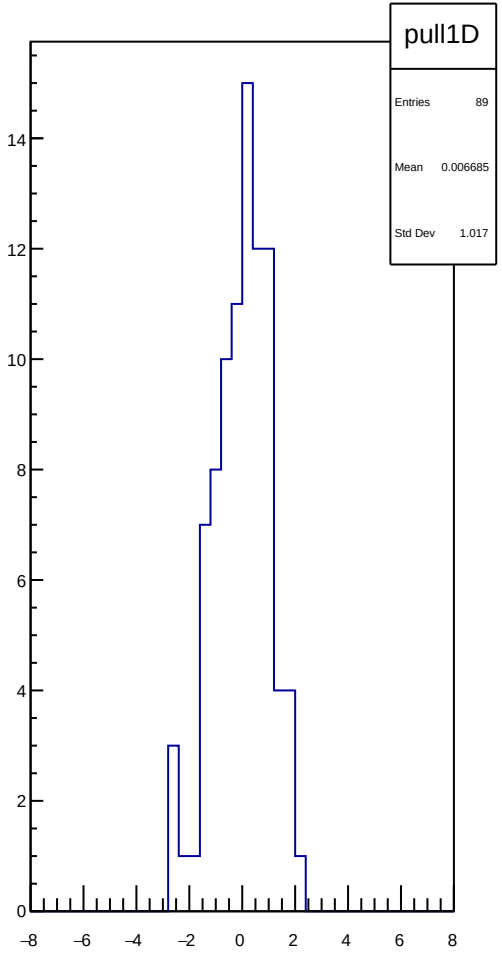

asym_us_dd_rms vs run
χ^2 / ndf 674.4 / 88
p0 927 ± 0.7049
980
960
940
920
900
880

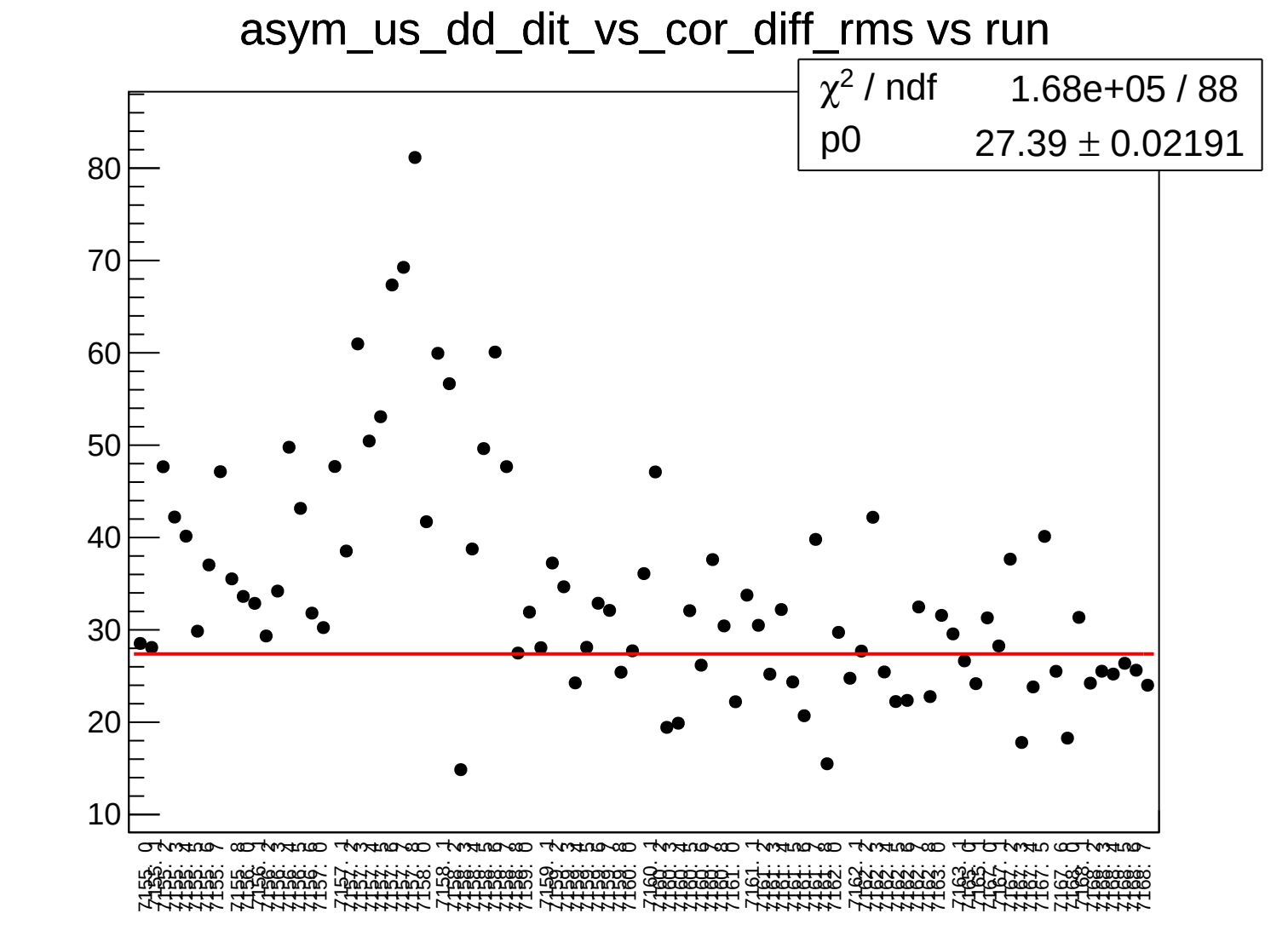

asym_us_dd_reg_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 77.89 / 88
p0 −4.411e−15 ± 1.361e−14
pull
Entries 89
Mean 181.4
Std Dev 0

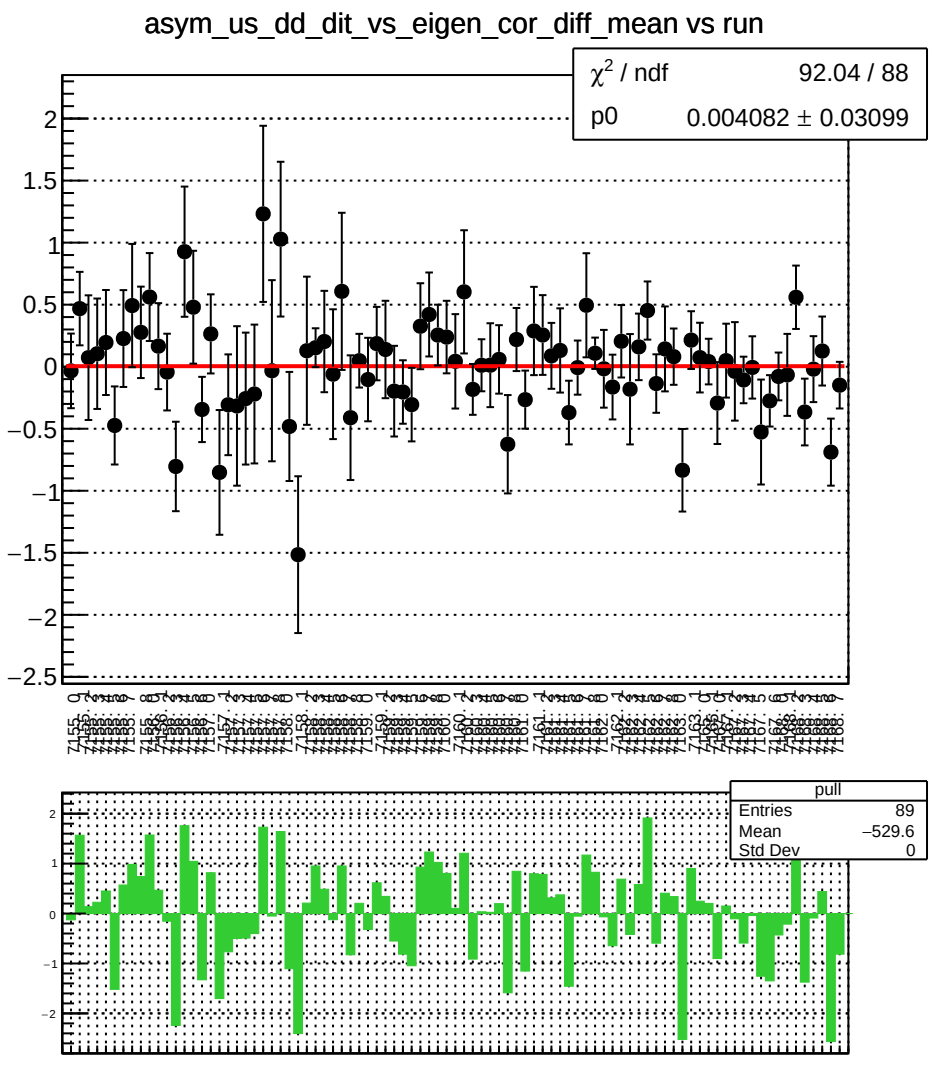

pull1D
Entries 89
Mean 0.02951
Std Dev 0.935

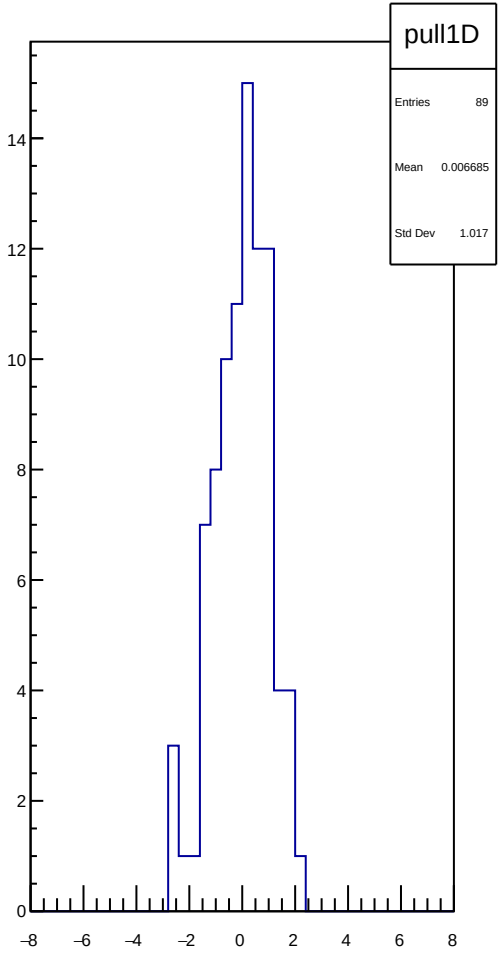

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.577e+05 / 88
p0 9.494e−12 ± 9.627e−15
80
70
60
50
40
30
20
10

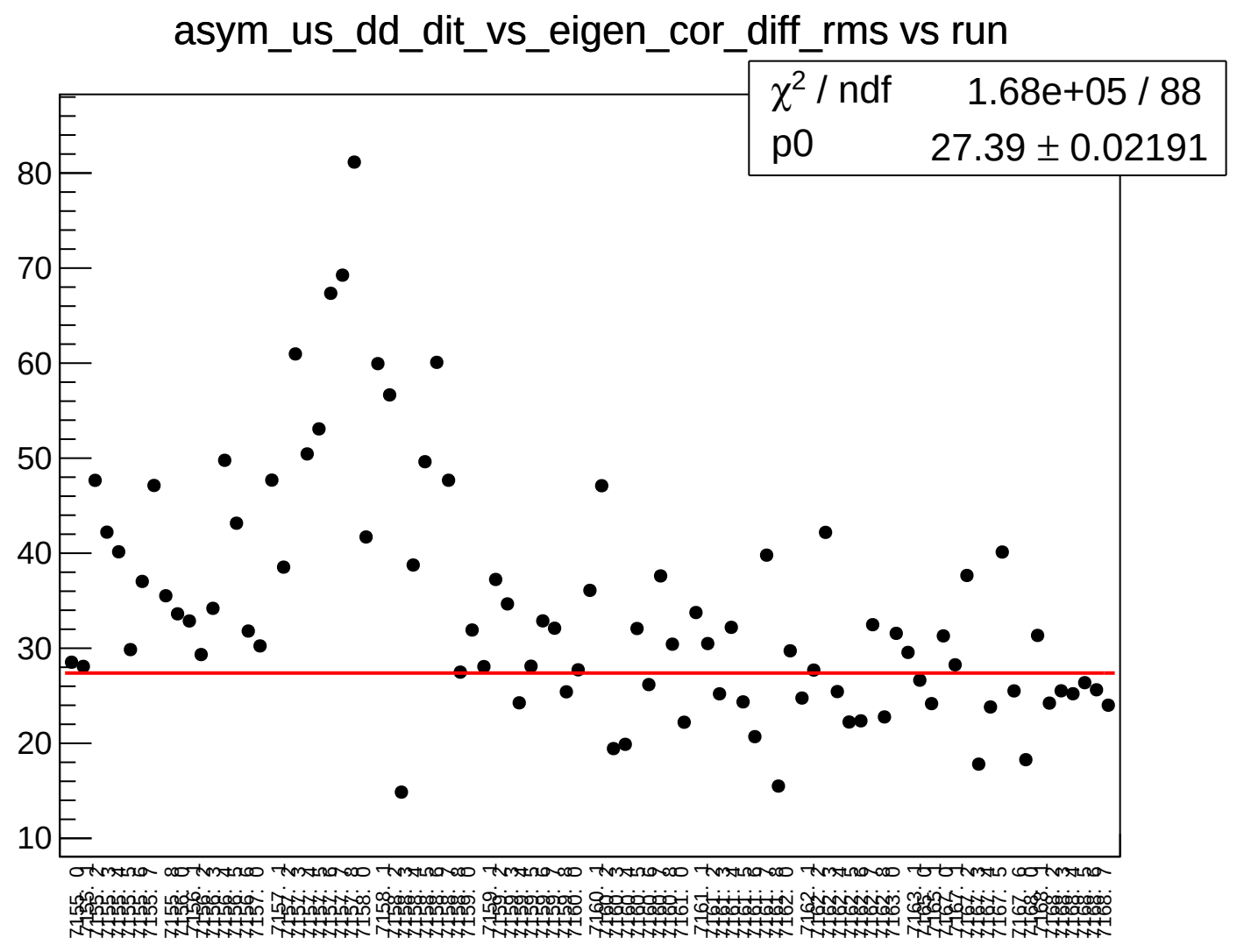

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.04 / 88
p0 0.004082 ± 0.03099
pull
Entries 89
Mean −529.6
Std Dev 0

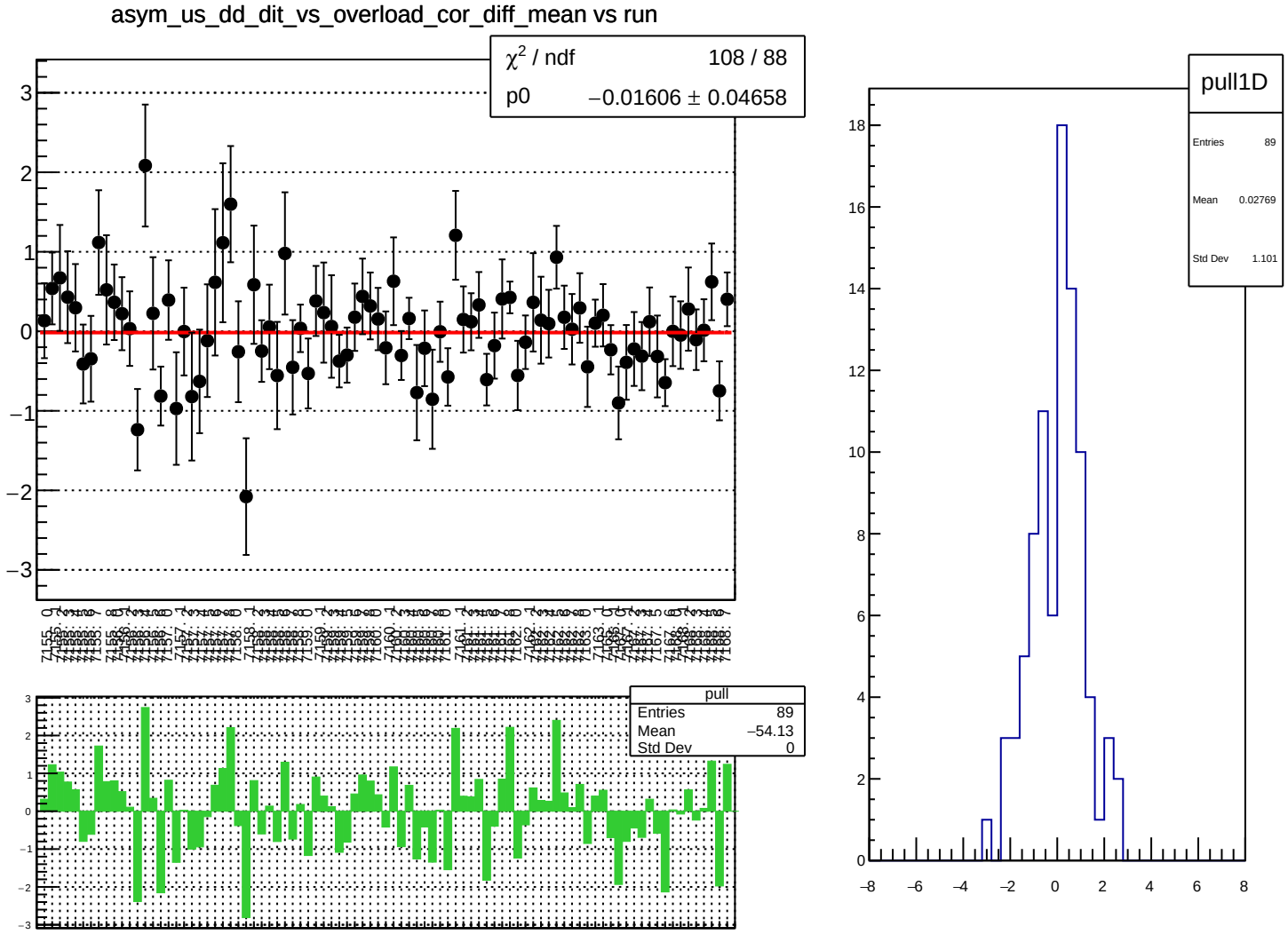

pull1D
Entries 89
Mean 0.006685
Std Dev 1.017

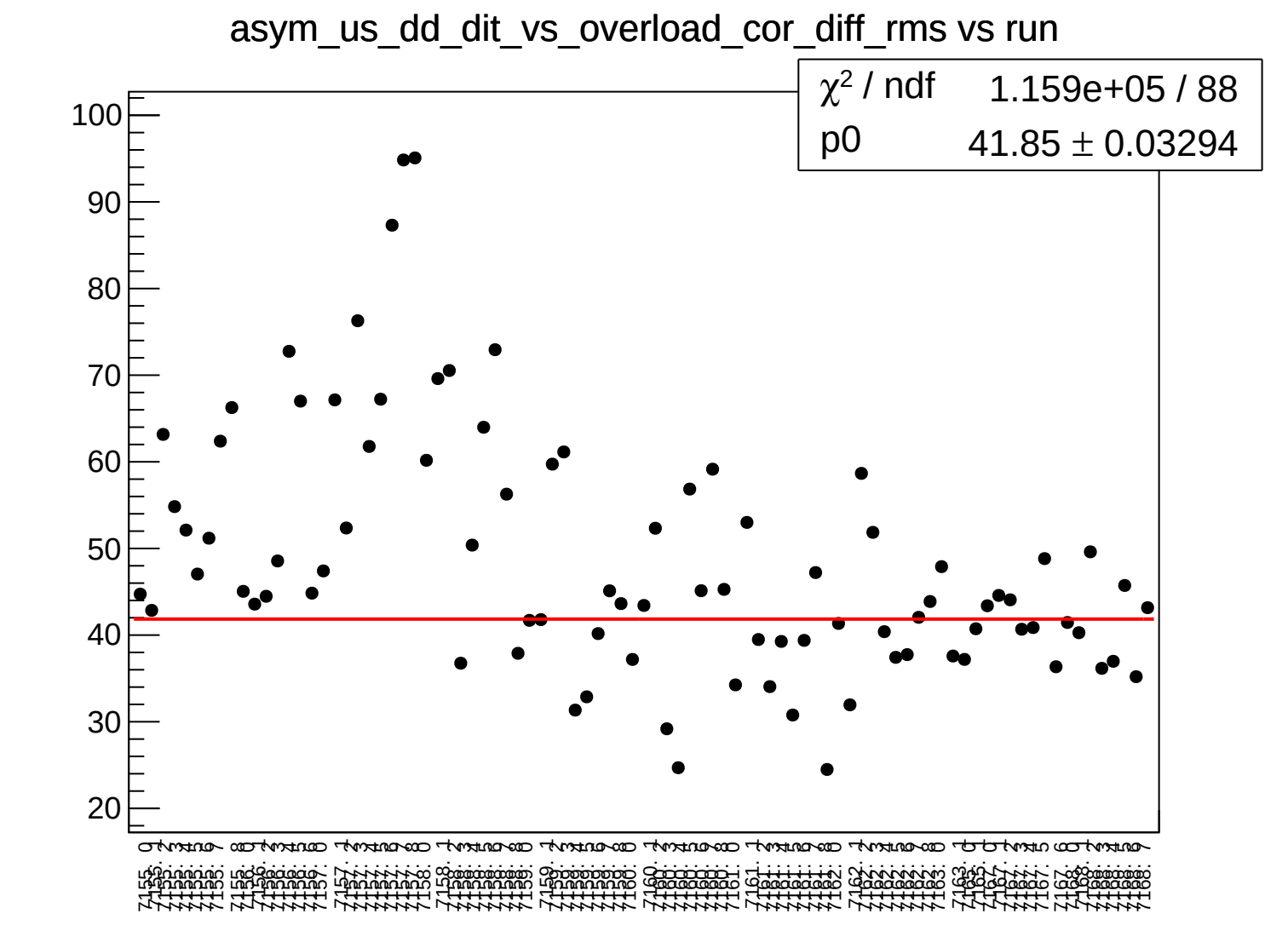

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.68e+05 / 88
p0 27.39 ± 0.02191
80
70
60
50
40
30
20
10

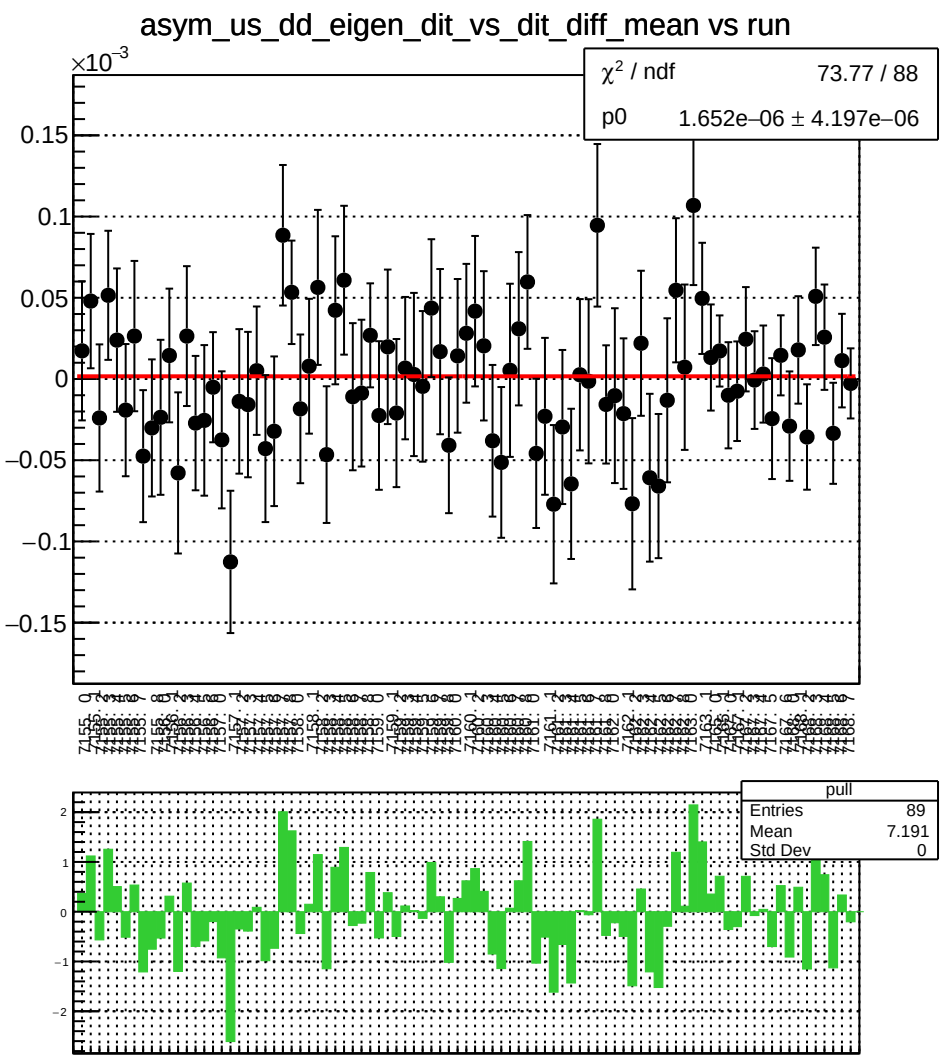

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.04 / 88
p0 0.004082 ± 0.03099
pull
Entries 89
Mean −529.6
Std Dev 0

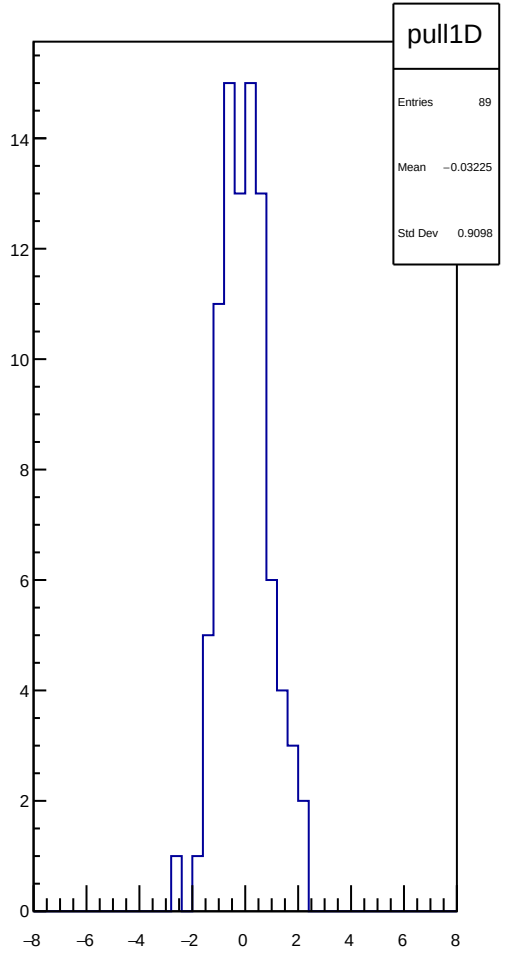

pull1D
Entries 89
Mean 0.006685
Std Dev 1.017

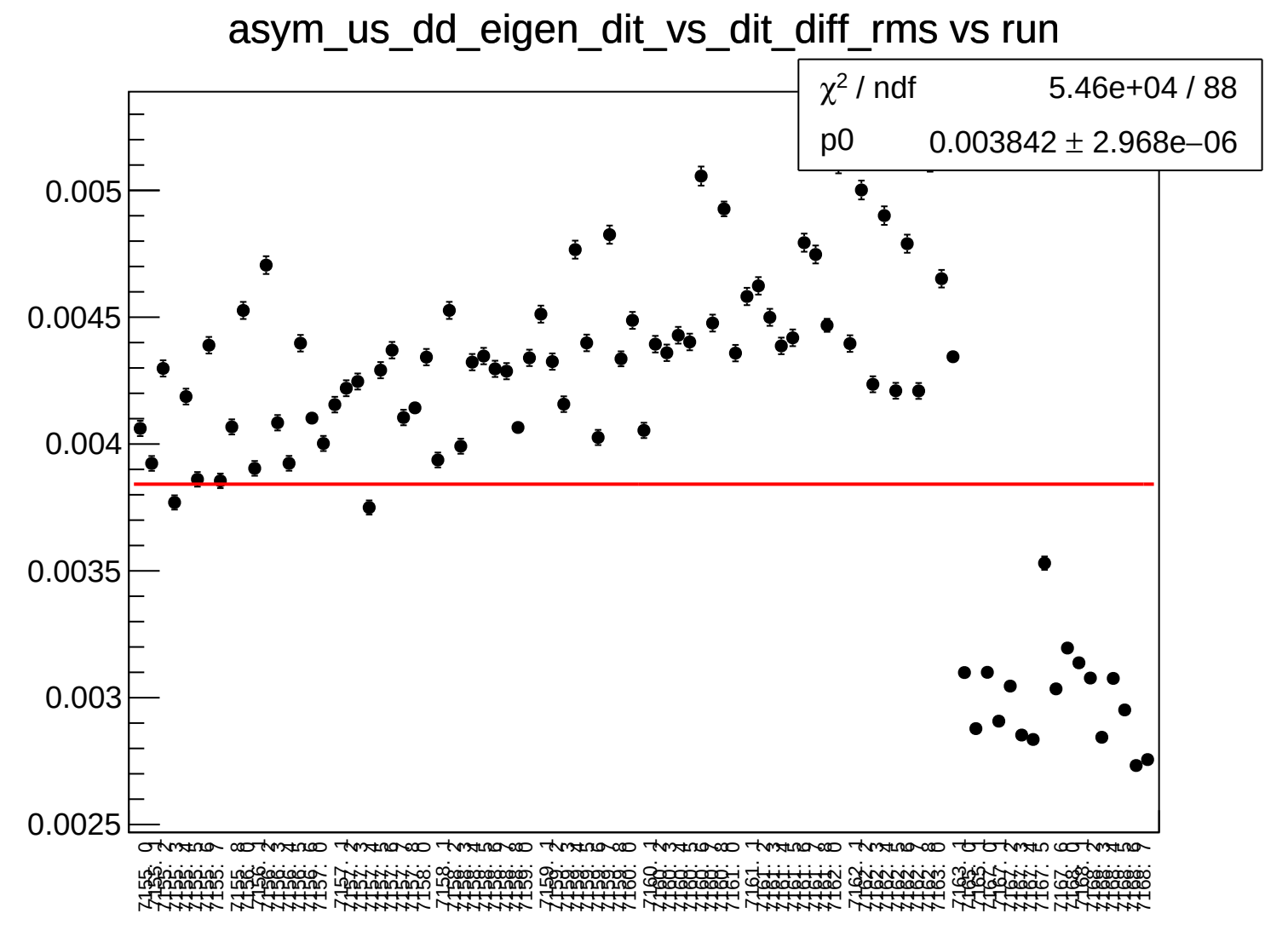

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.68e+05 / 88
p0 27.39 ± 0.02191
80
70
60
50
40
30
20
10

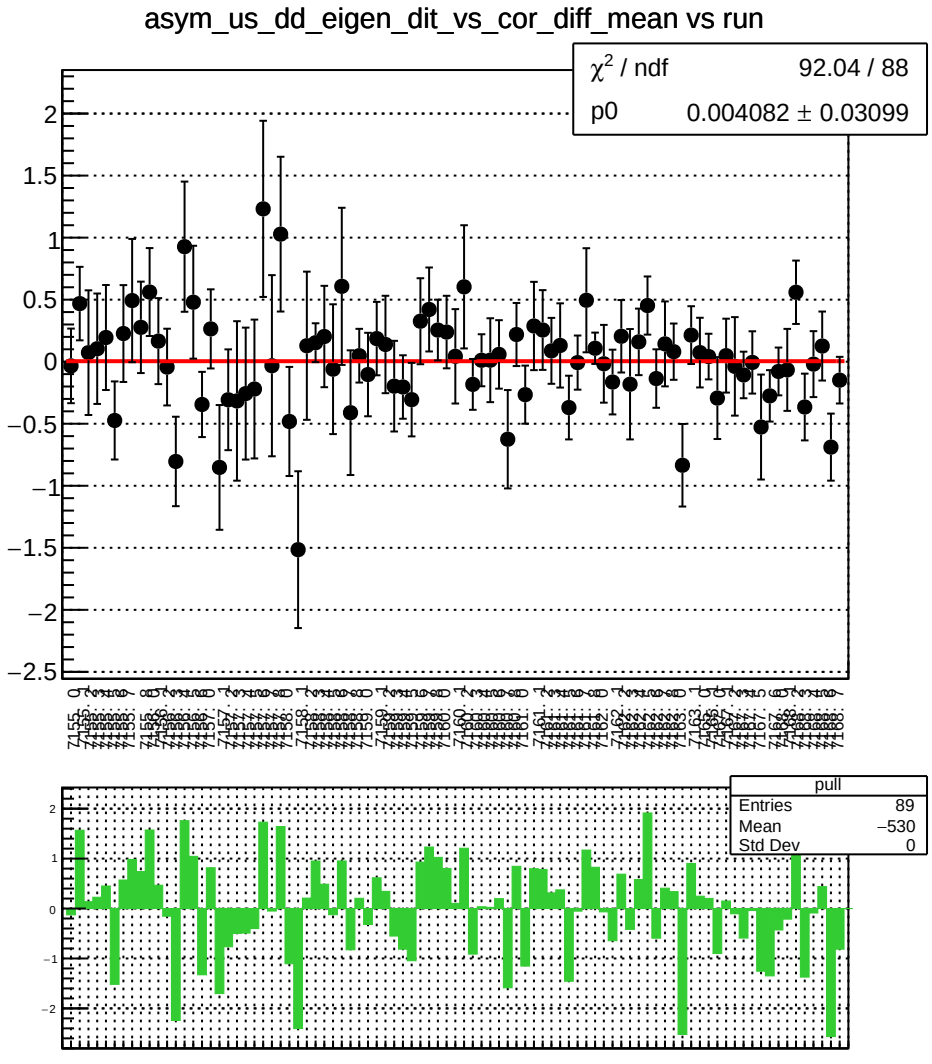

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108 / 88
p0 −0.01606 ± 0.04658
pull
Entries 89
Mean −54.13
Std Dev 0
pull1D
Entries 89
Mean 0.02769
Std Dev 1.101

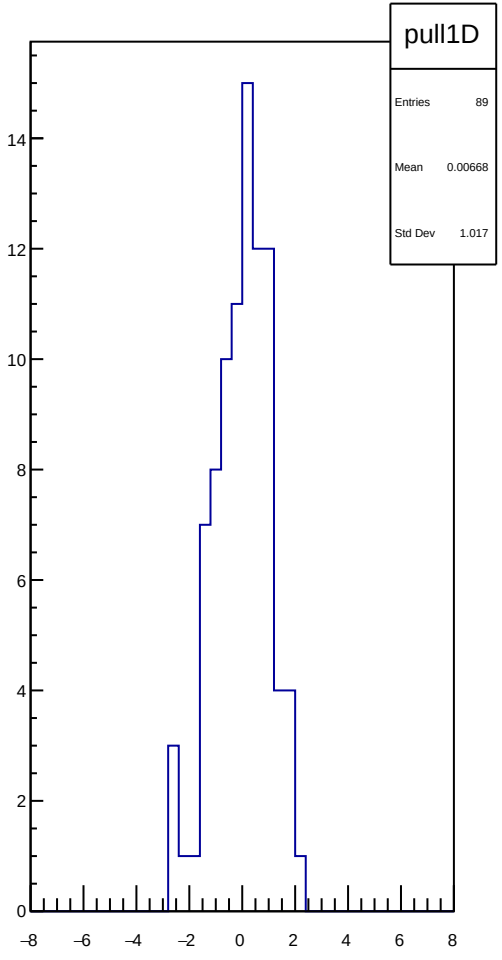

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 88
p0 41.85 ± 0.03294
100
90
80
70
60
50
40
30
20

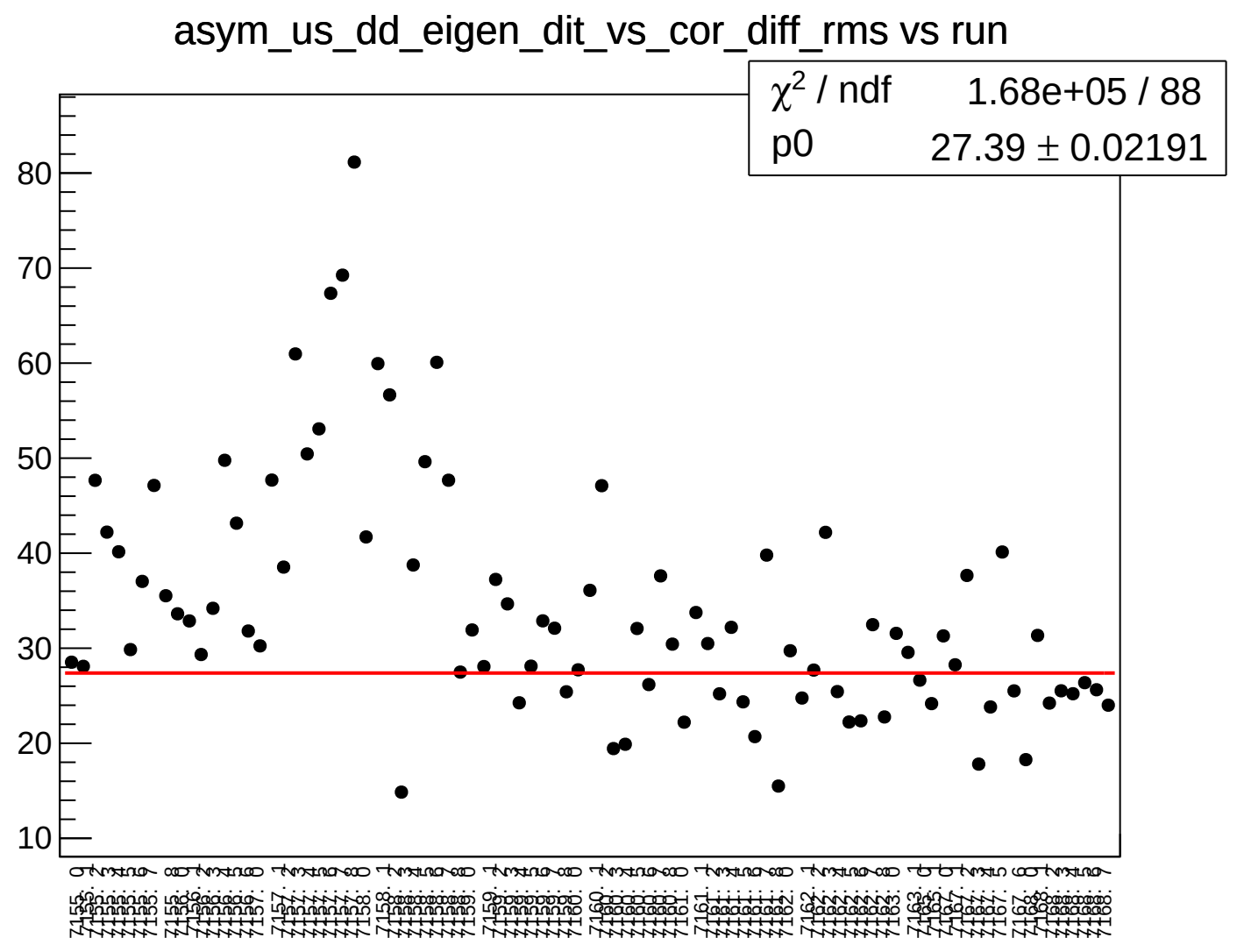

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.77 / 88
p0 1.652e−06 ± 4.197e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 7.191
Std Dev 0
2
1
0
−1
−2

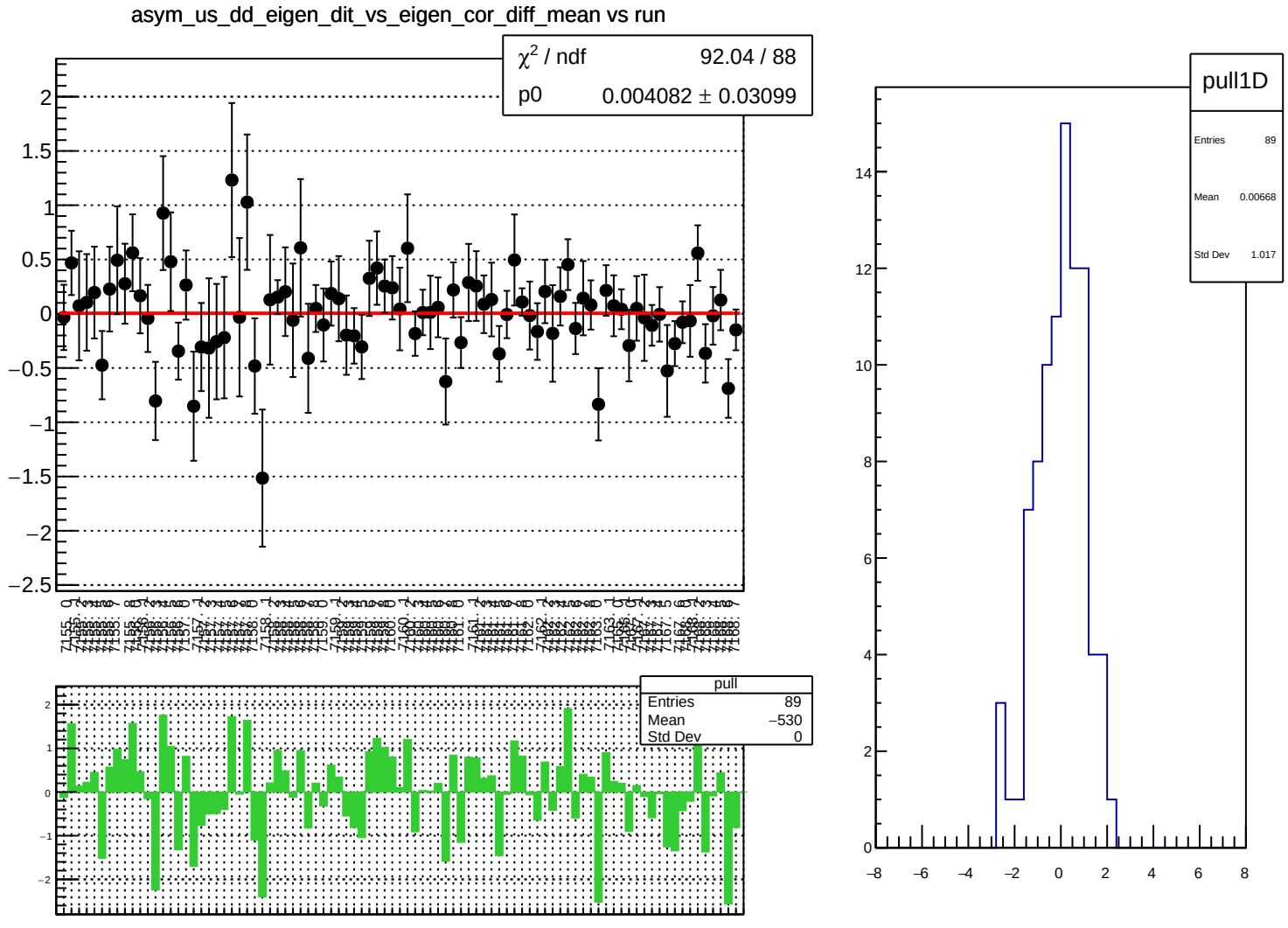

pull1D
Entries 89
Mean −0.03225
Std Dev 0.9098
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

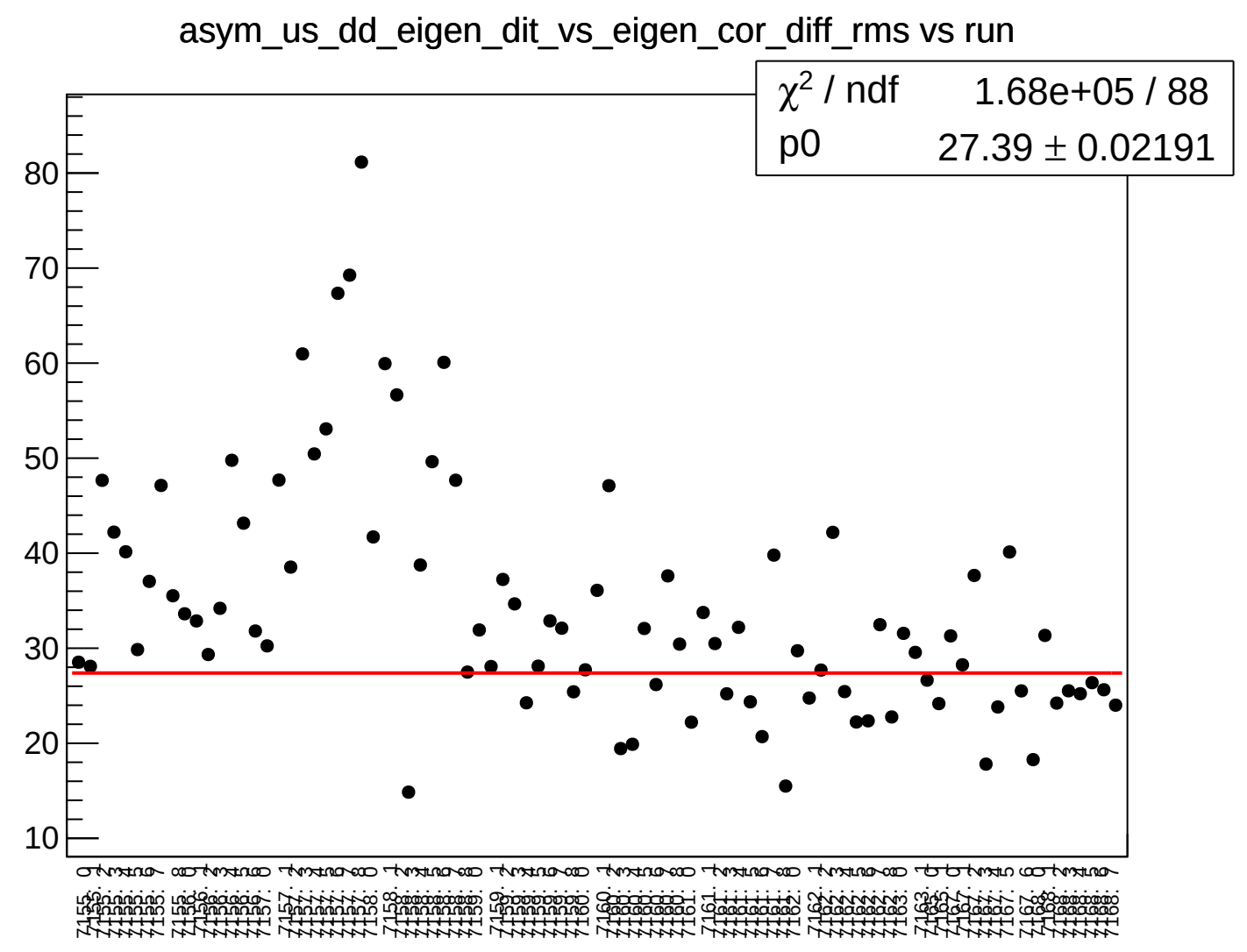

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.46e+04 / 88
p0 0.003842 ± 2.968e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

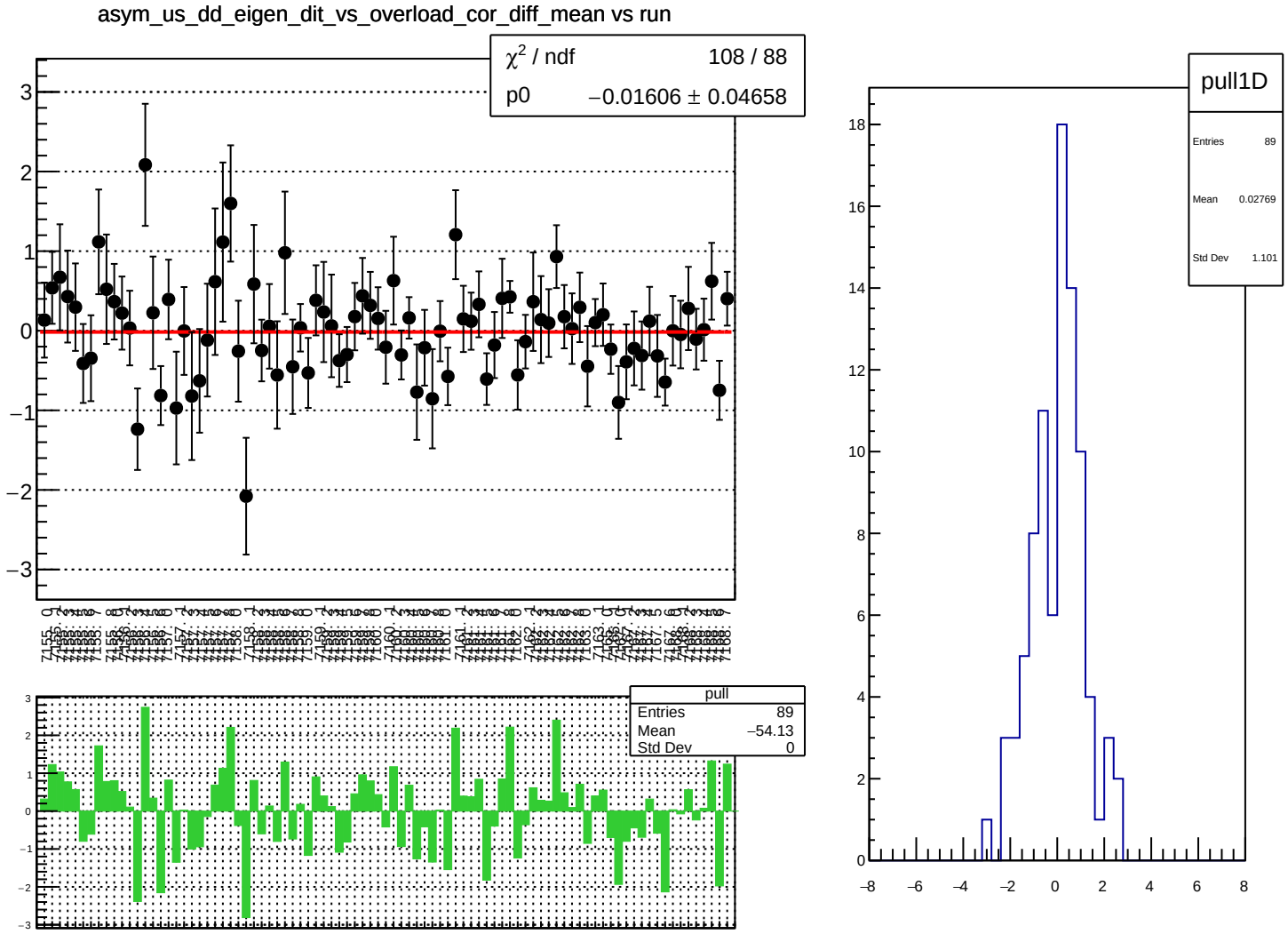

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.04 / 88
p0 0.004082 ± 0.03099
pull
Entries 89
Mean −530
Std Dev 0

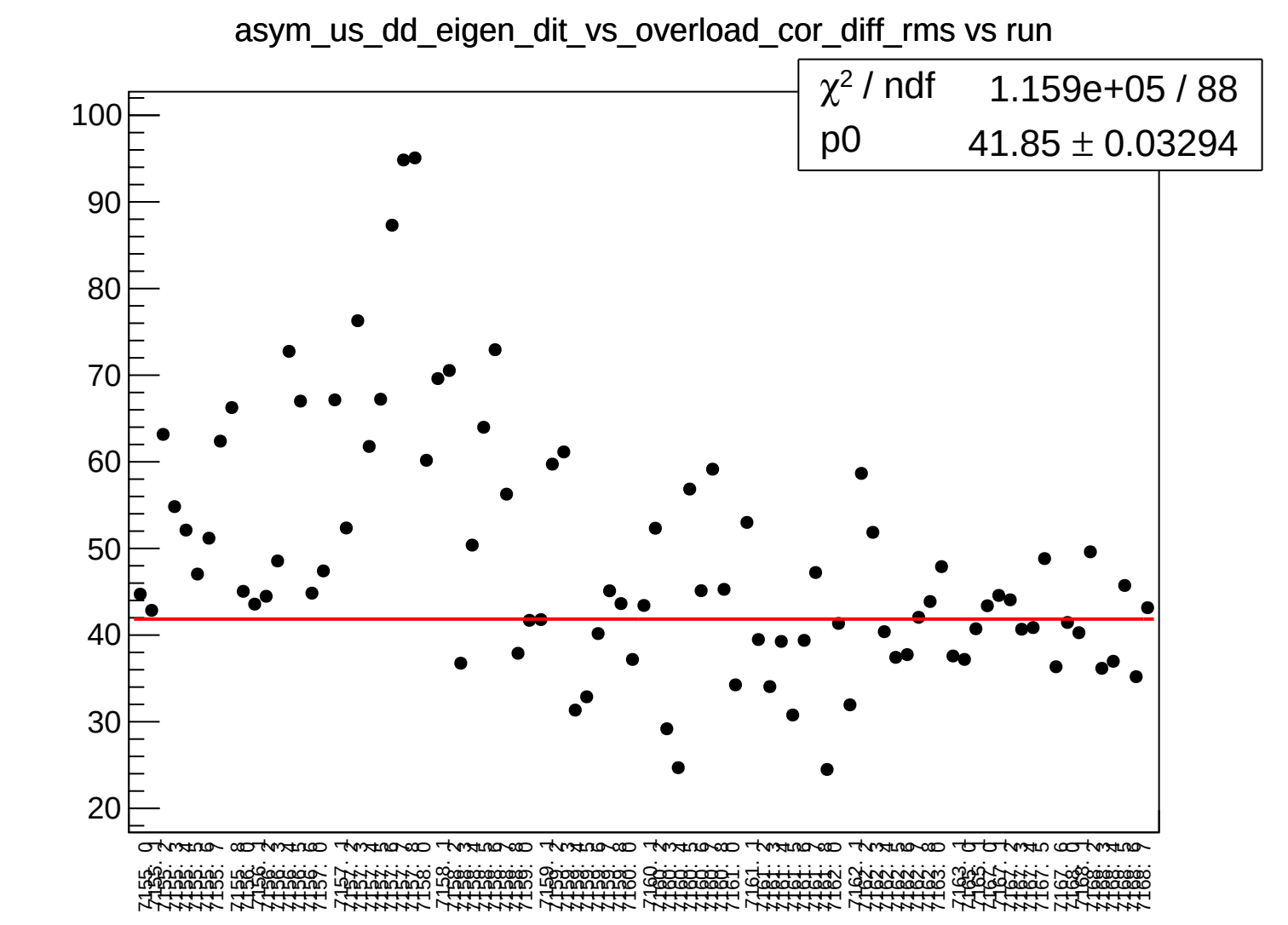

pull1D
Entries 89
Mean 0.00668
Std Dev 1.017

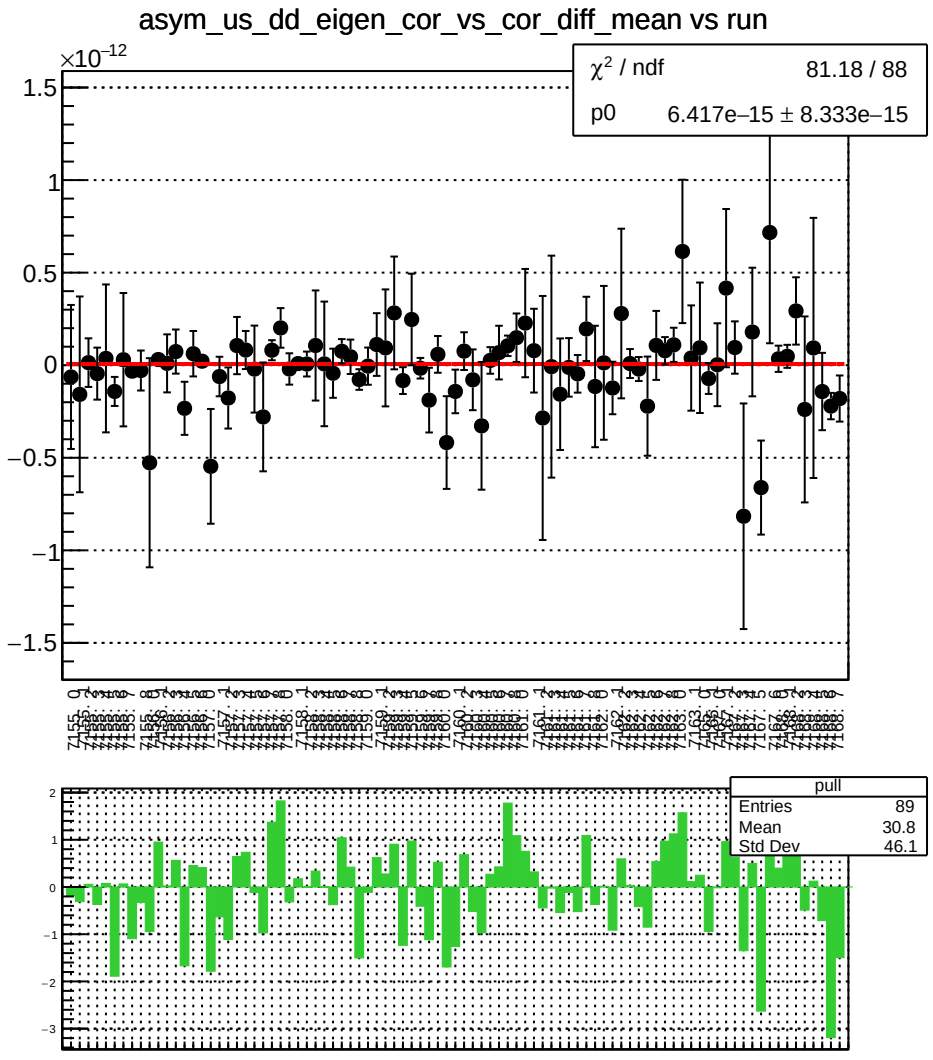

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.68e+05 / 88
p0 27.39 ± 0.02191
80
70
60
50
40
30
20
10

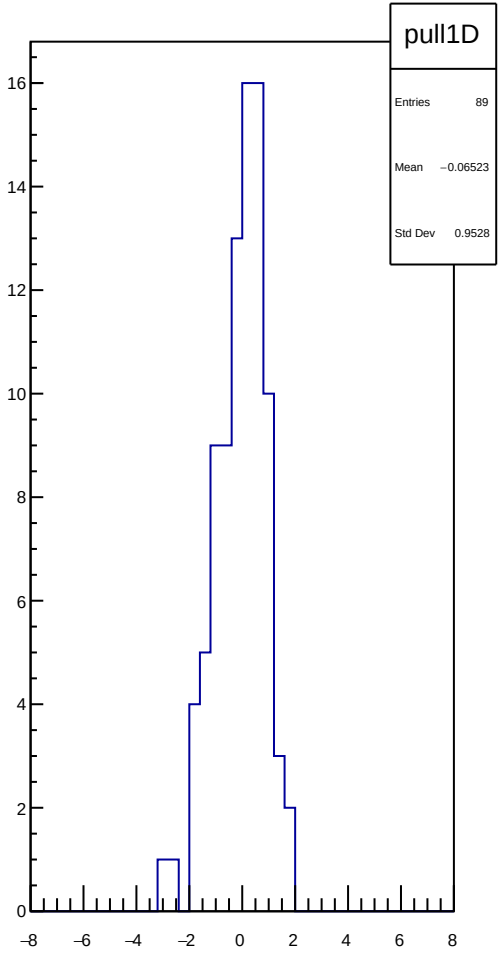

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.04 / 88
p0 0.004082 ± 0.03099
pull
Entries 89
Mean −530
Std Dev 0
pull1D
Entries 89
Mean 0.00668
Std Dev 1.017

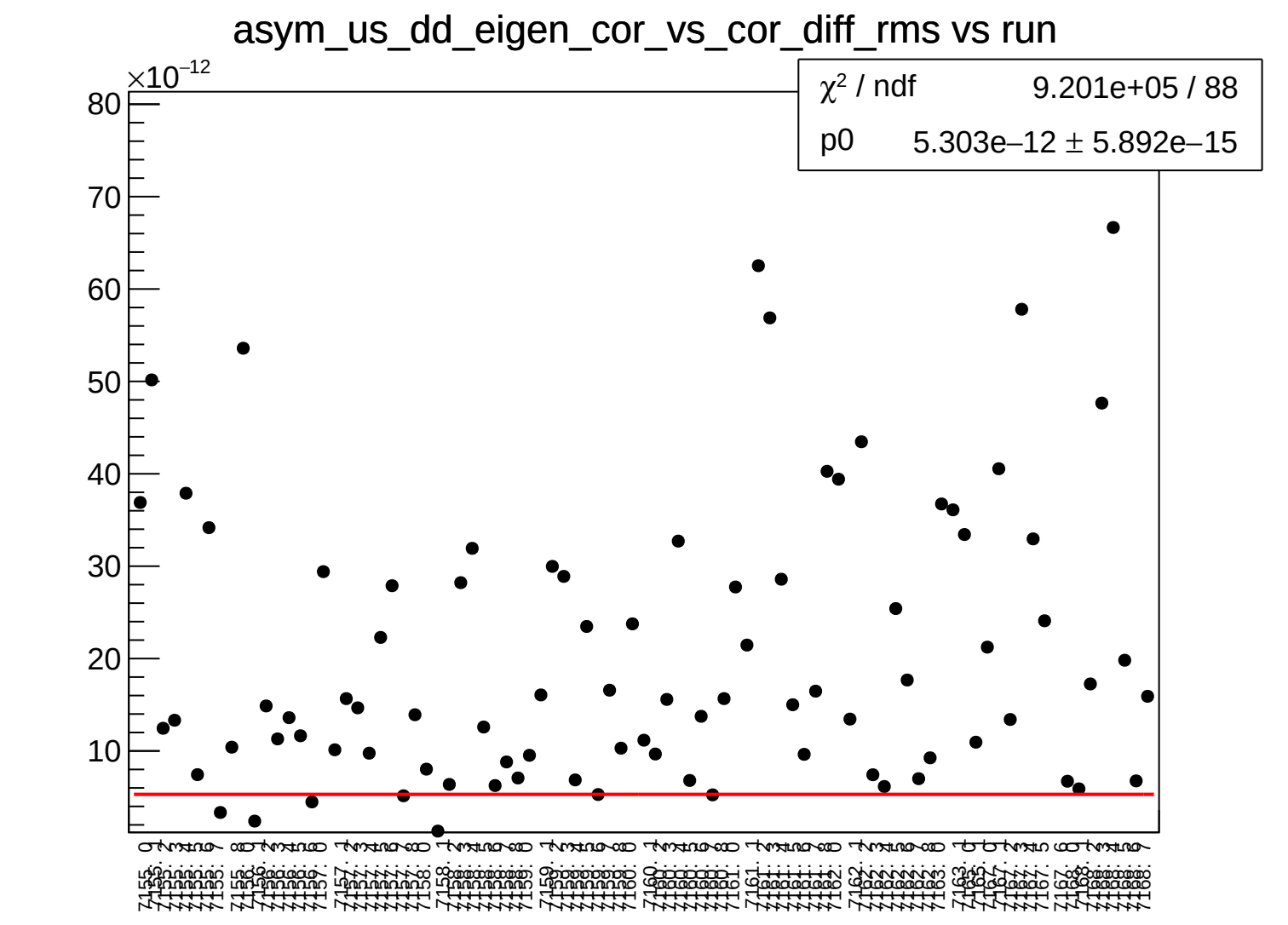

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.68e+05 / 88
p0 27.39 ± 0.02191
80
70
60
50
40
30
20
10

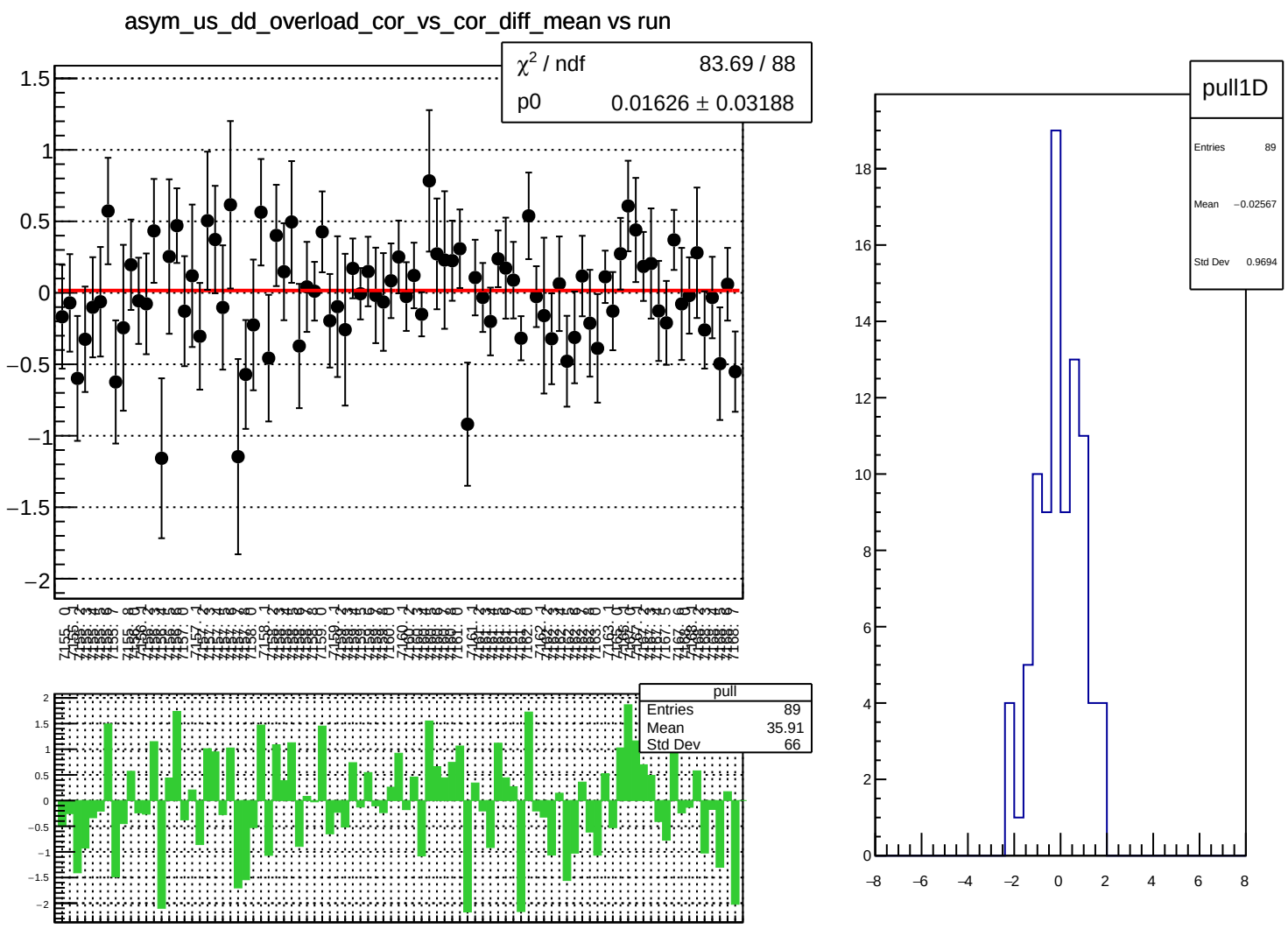

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 108 / 88
p0 −0.01606 ± 0.04658
pull
Entries 89
Mean −54.13
Std Dev 0
pull1D
Entries 89
Mean 0.02769
Std Dev 1.101

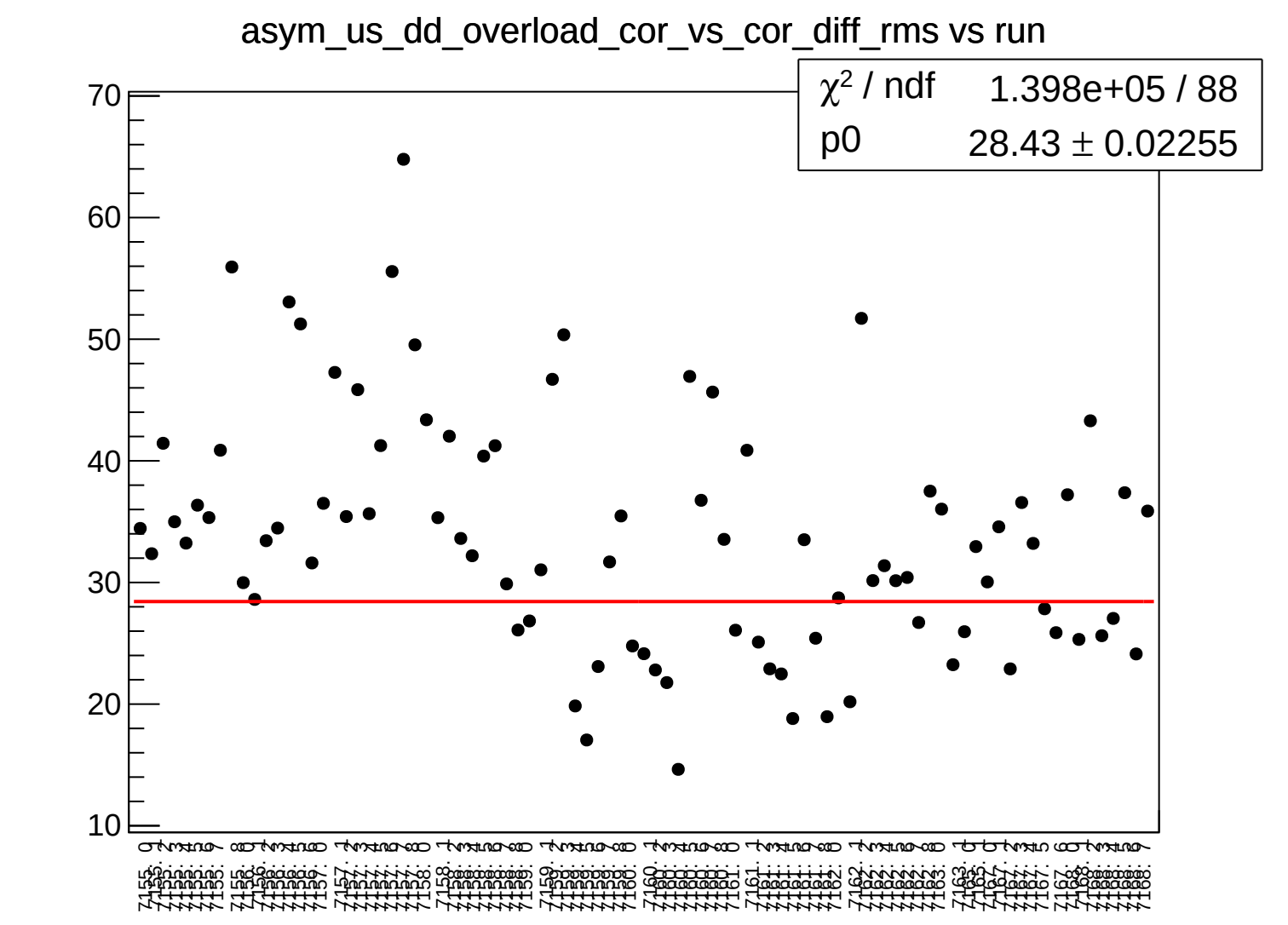

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.159e+05 / 88
p0 41.85 ± 0.03294
100
90
80
70
60
50
40
30
20

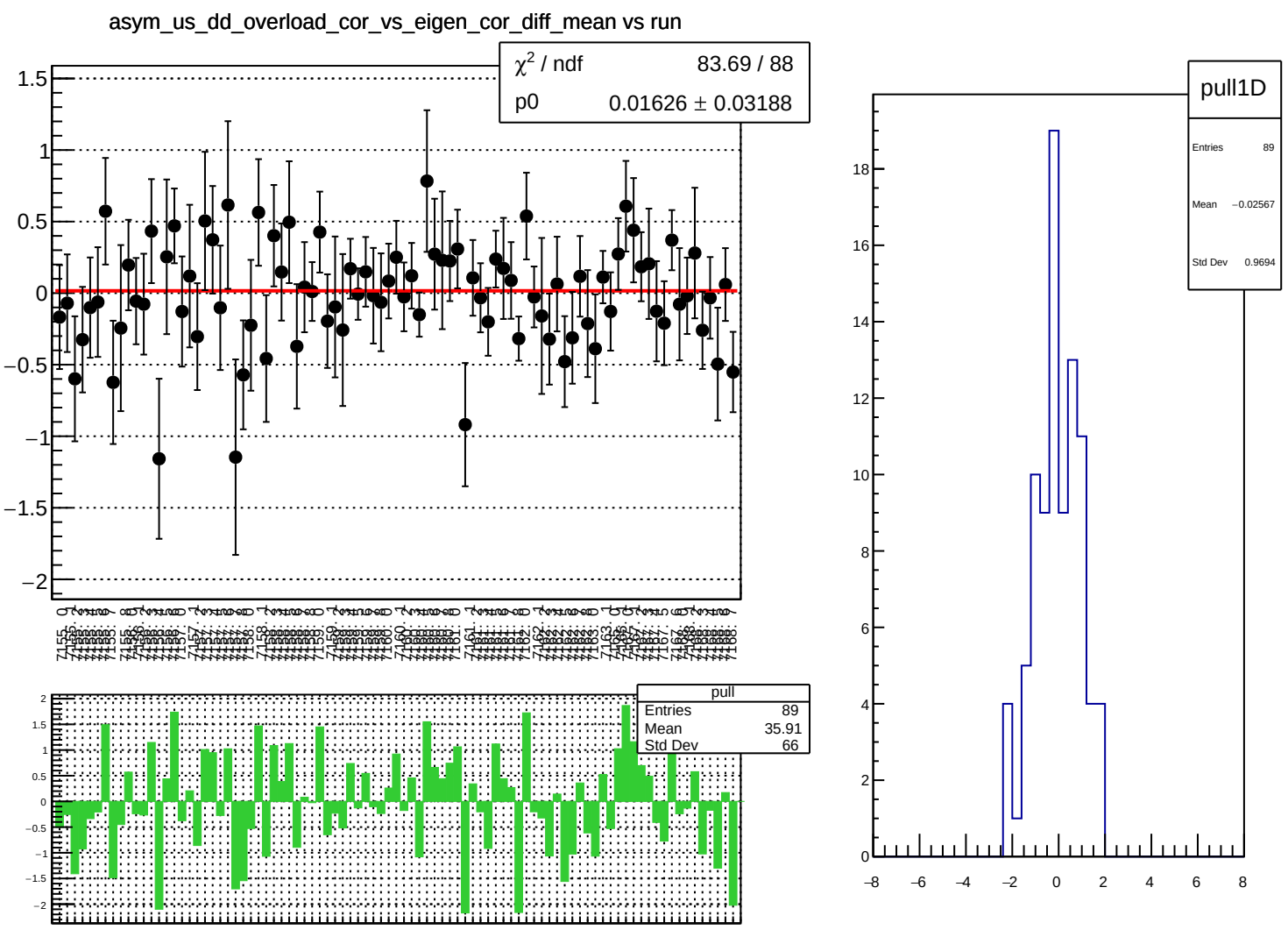

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.18 / 88
p0 6.417e−15 ± 8.333e−15
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 89
Mean 30.8
Std Dev 46.1
2
1
0
−1
−2
−3

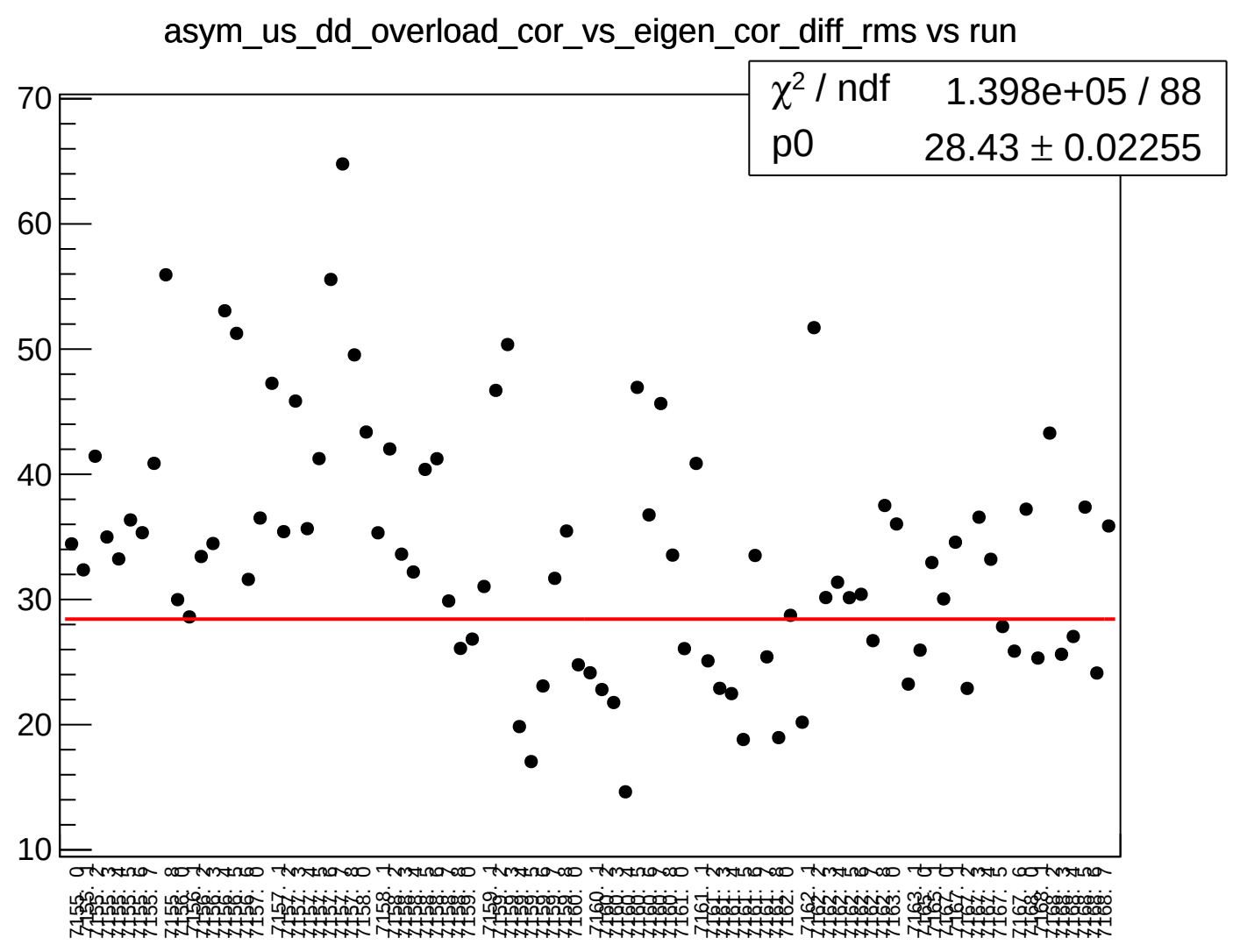

pull1D
Entries 89
Mean −0.06523
Std Dev 0.9528
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

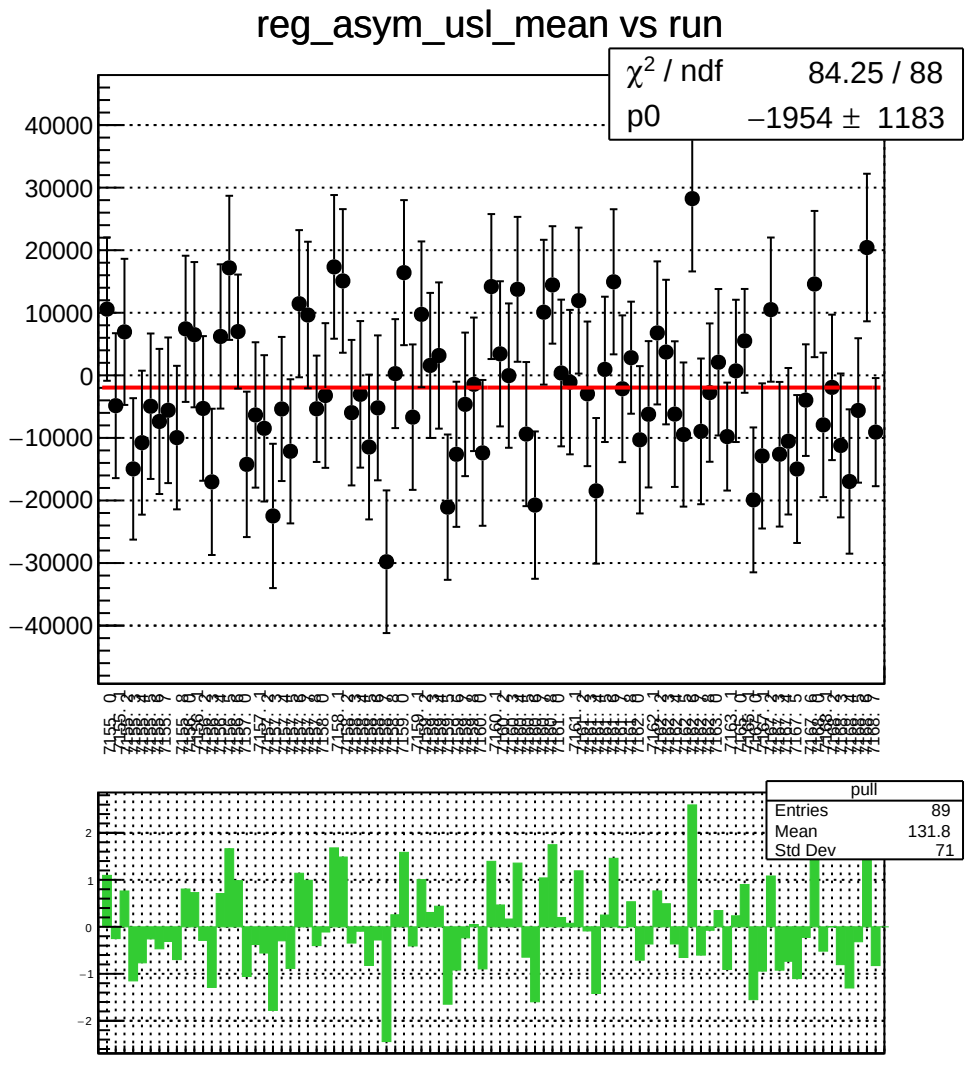

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 9.201e+05 / 88
p0 5.303e−12 ± 5.892e−15
80
70
60
50
40
30
20
10

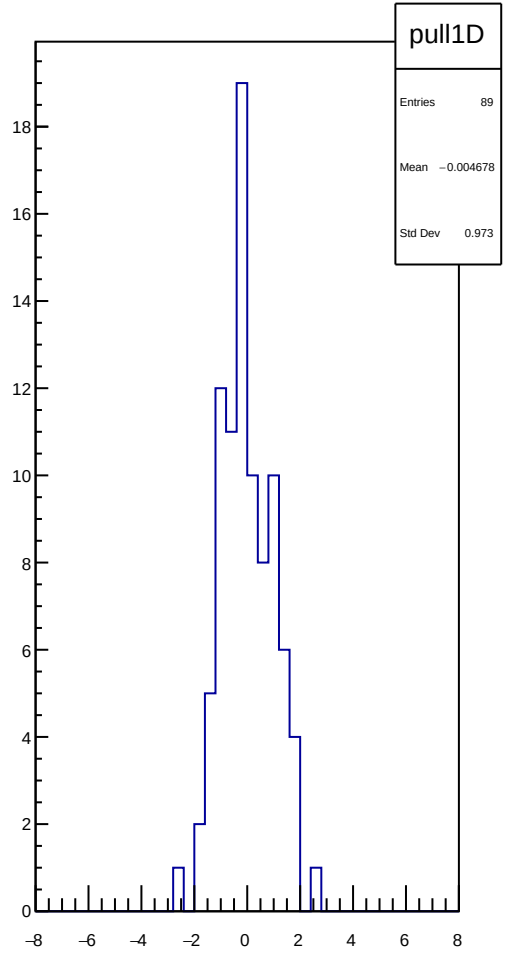

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.01626 ± 0.03188
pull
Entries 89
Mean 35.91
Std Dev 66
pull1D
Entries 89
Mean −0.02567
Std Dev 0.9694

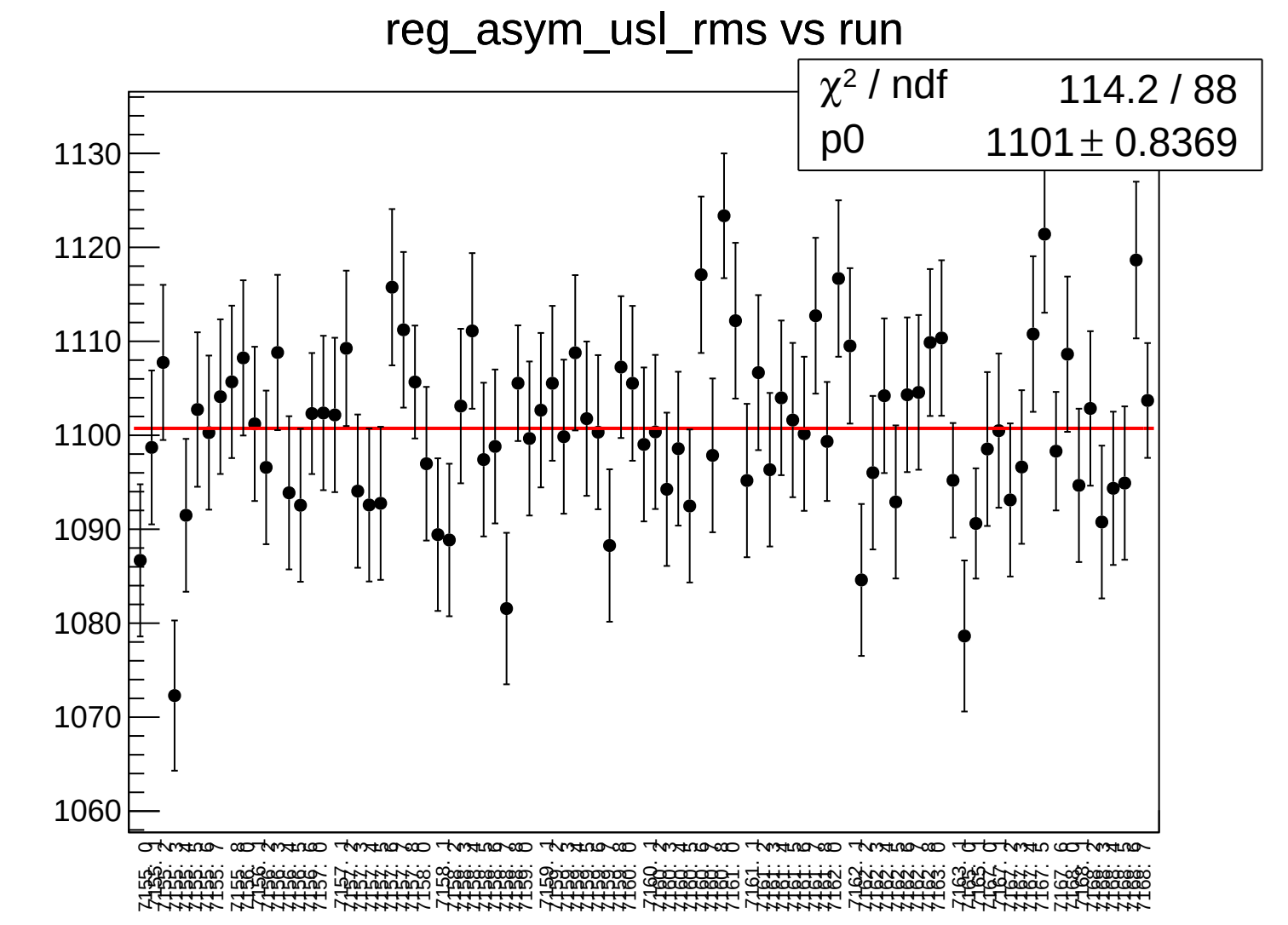

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 1.398e+05 / 88
p0 28.43 ± 0.02255
70
60
50
40
30
20
10

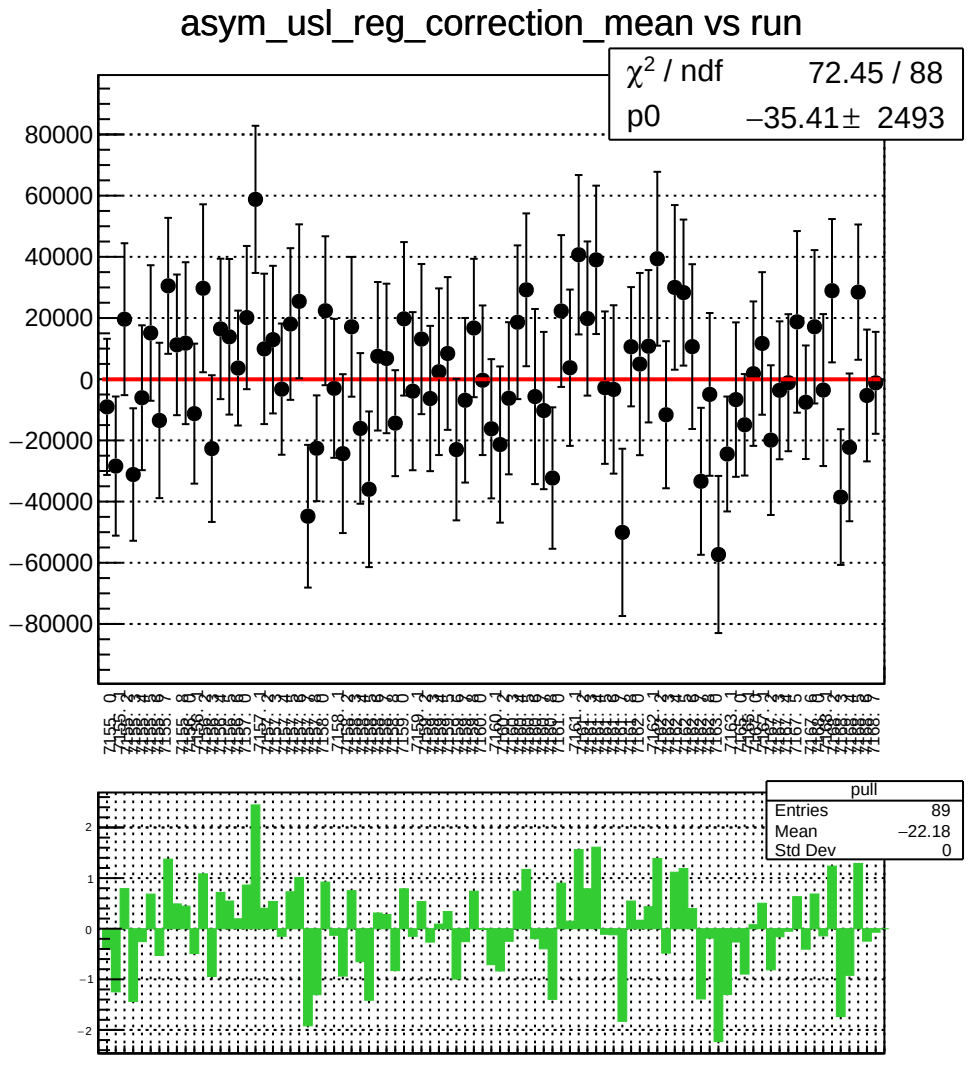

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.01626 ± 0.03188
pull
Entries 89
Mean 35.91
Std Dev 66
pull1D
Entries 89
Mean −0.02567
Std Dev 0.9694

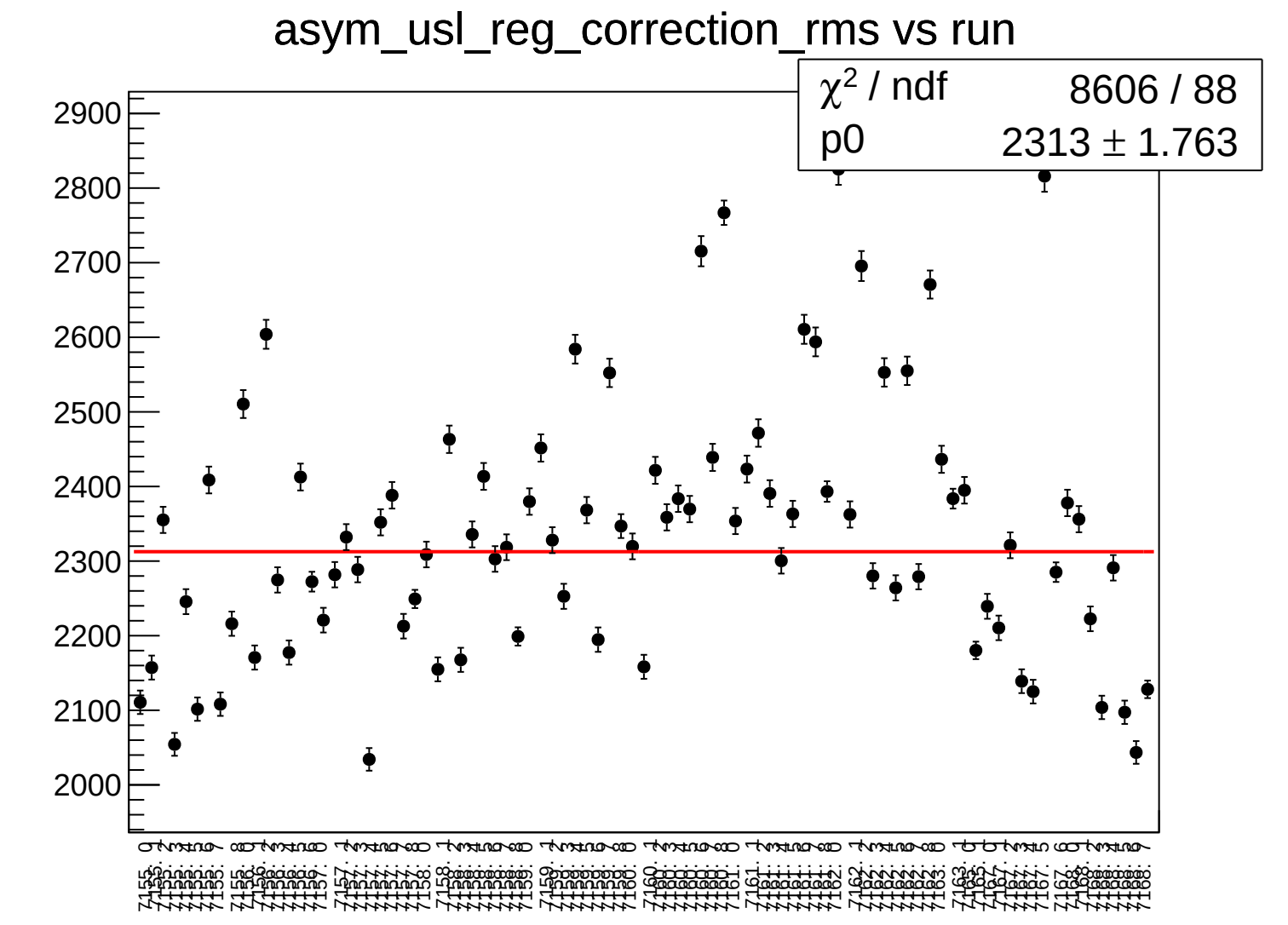

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.398e+05 / 88
p0 28.43 ± 0.02255
70
60
50
40
30
20
10

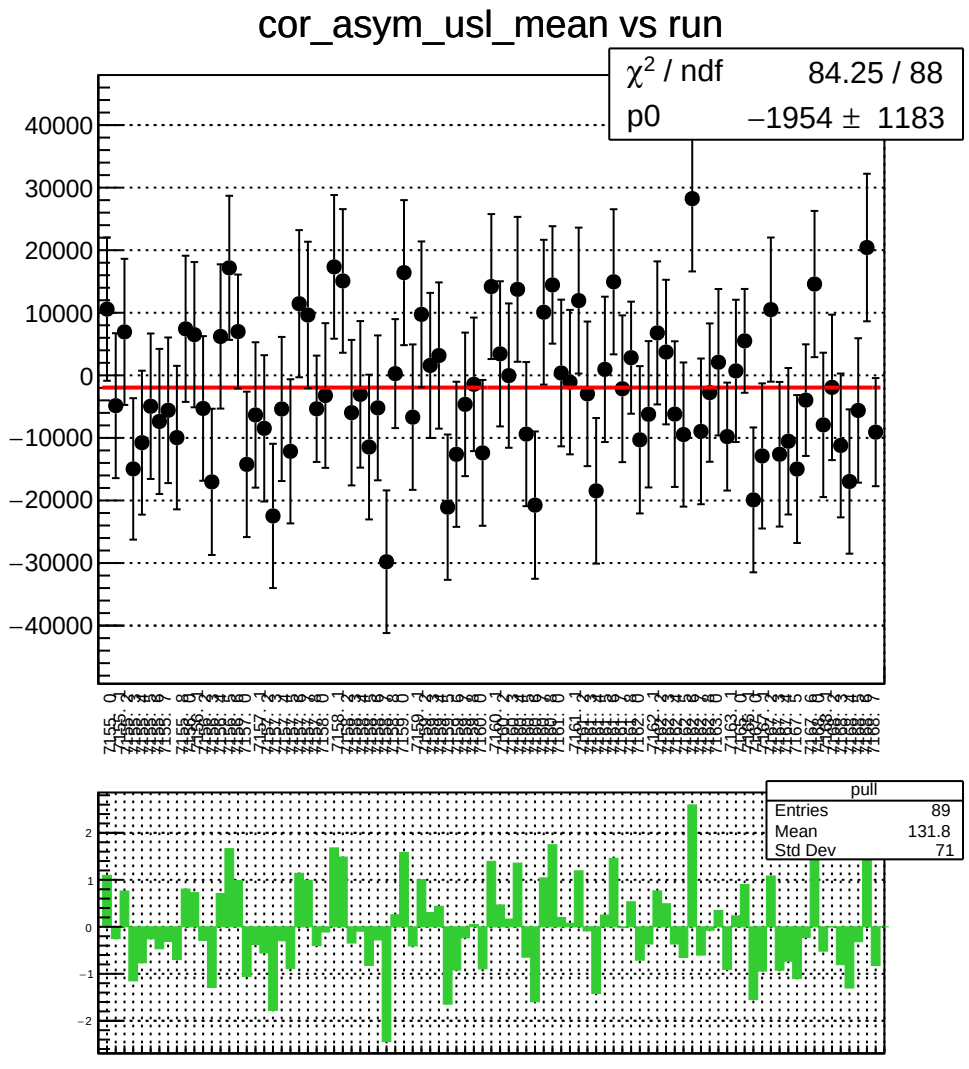

reg_asym_usl_mean vs run
χ² / ndf 84.25 / 88
p0 −1954 ± 1183
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 131.8
Std Dev 71
2
1
0
−1
−2

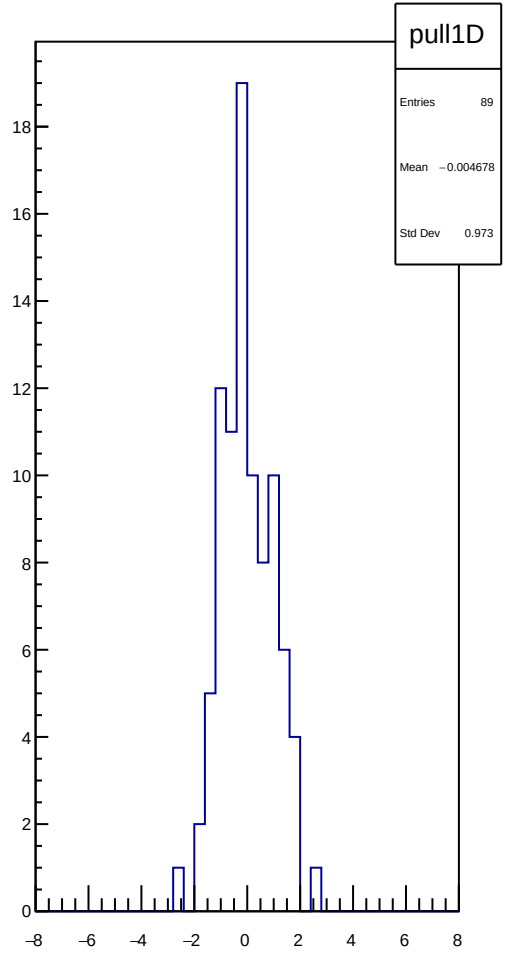

pull1D
Entries 89
Mean −0.004678
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

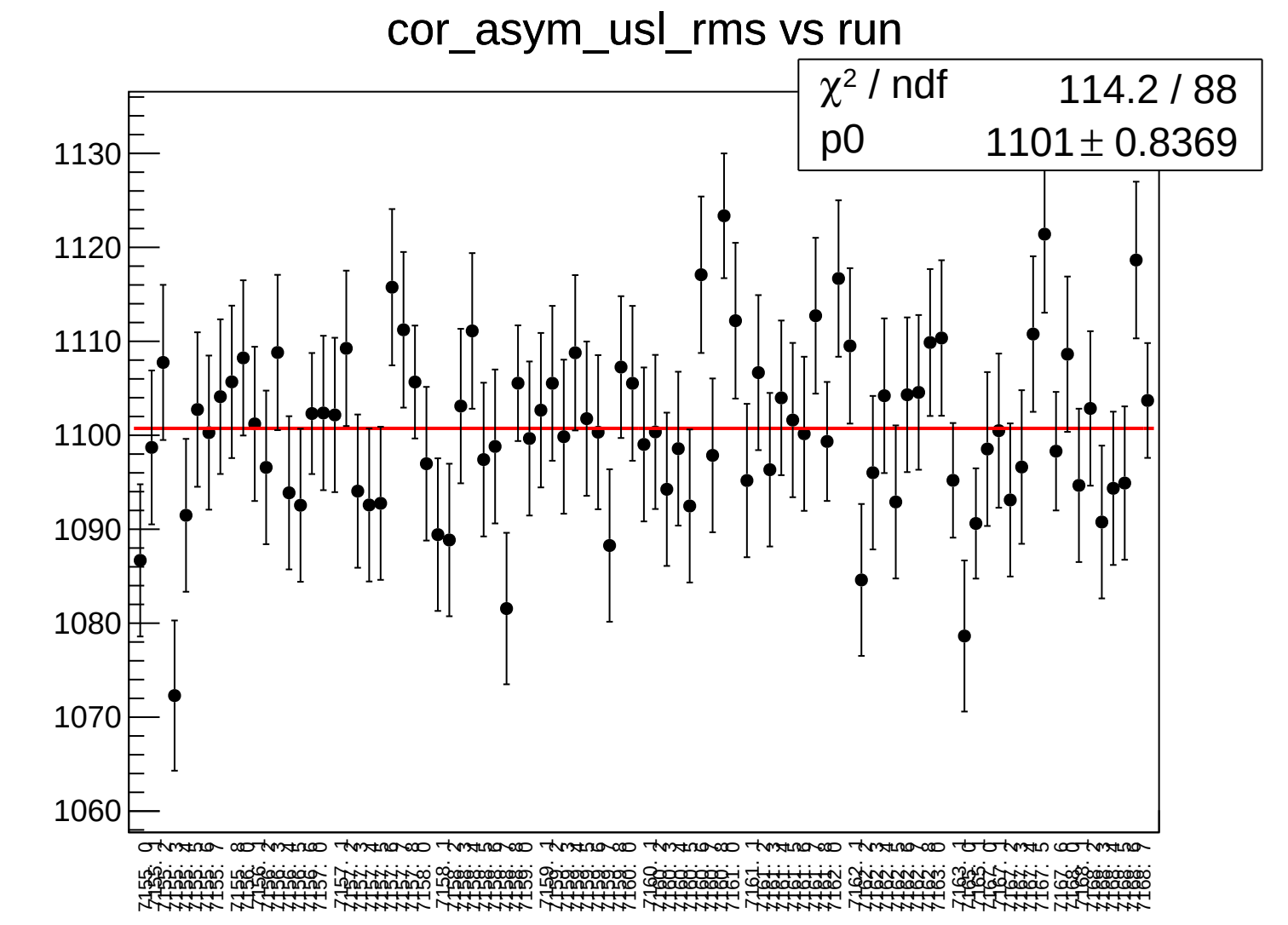

reg_asym_usl_rms vs run
χ² / ndf 114.2 / 88
p0 1101 ± 0.8369
1130
1120
1110
1100
1090
1080
1070
1060

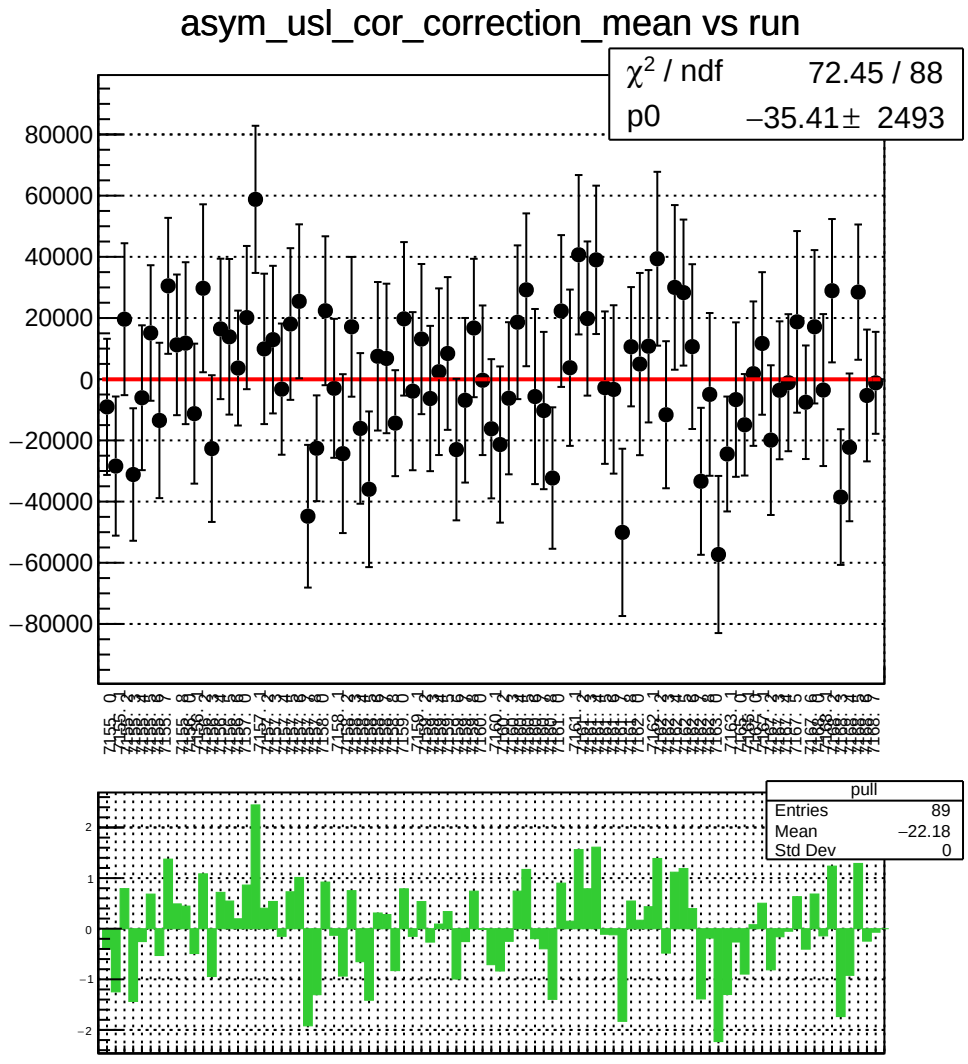

asym_usl_reg_correction_mean vs run
χ² / ndf 72.45 / 88
p0 −35.41± 2493
pull
Entries 89
Mean −22.18
Std Dev 0
pull1D
Entries 89
Mean 0.02511
Std Dev 0.9019


asym_usl_reg_correction_rms vs run
χ² / ndf 8606 / 88
p0 2313 ± 1.763
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

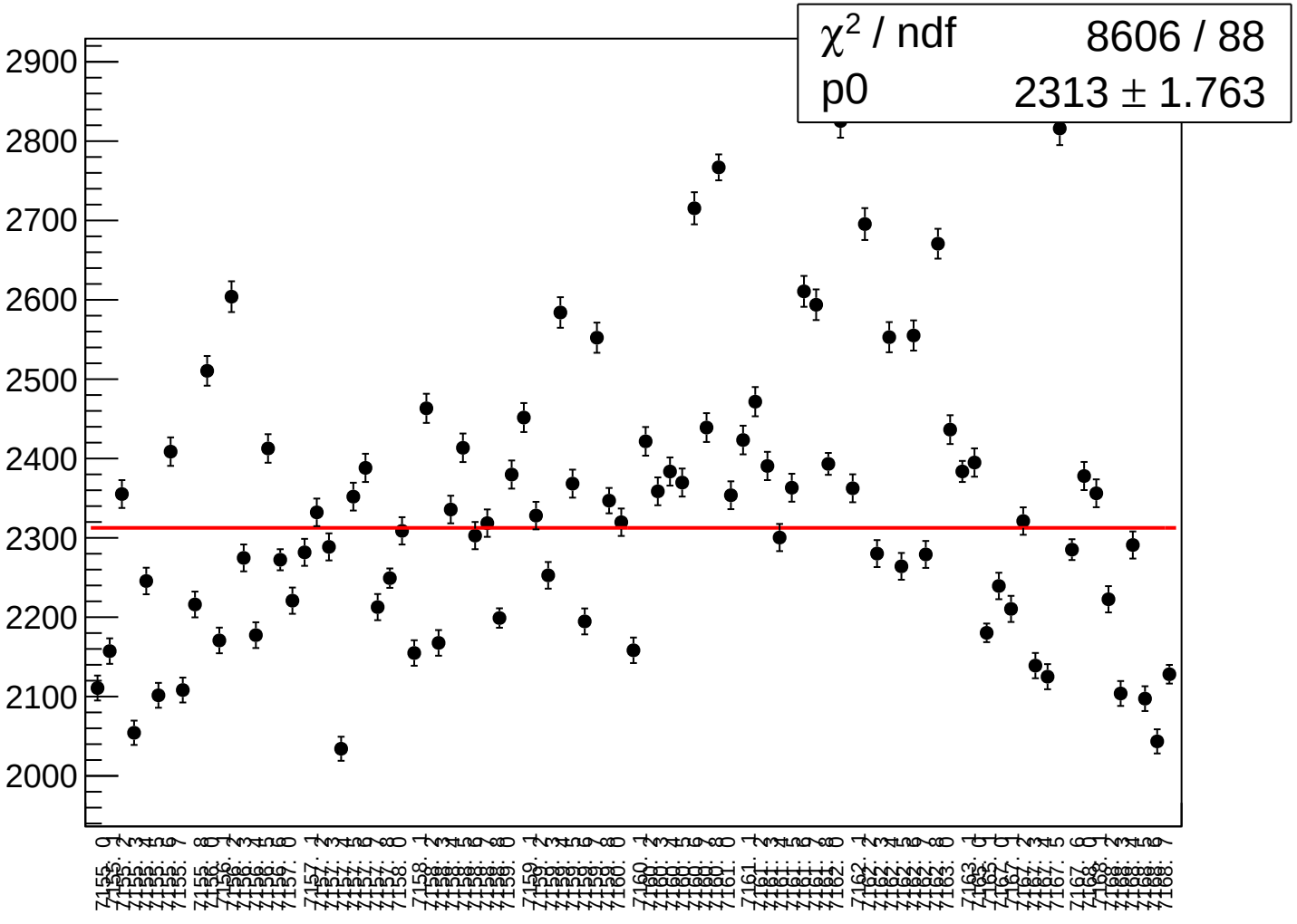

cor_asym_usl_mean vs run
χ^2 / ndf 84.25 / 88
p0 −1954 ± 1183
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 131.8
Std Dev 71
2
1
0
−1
−2

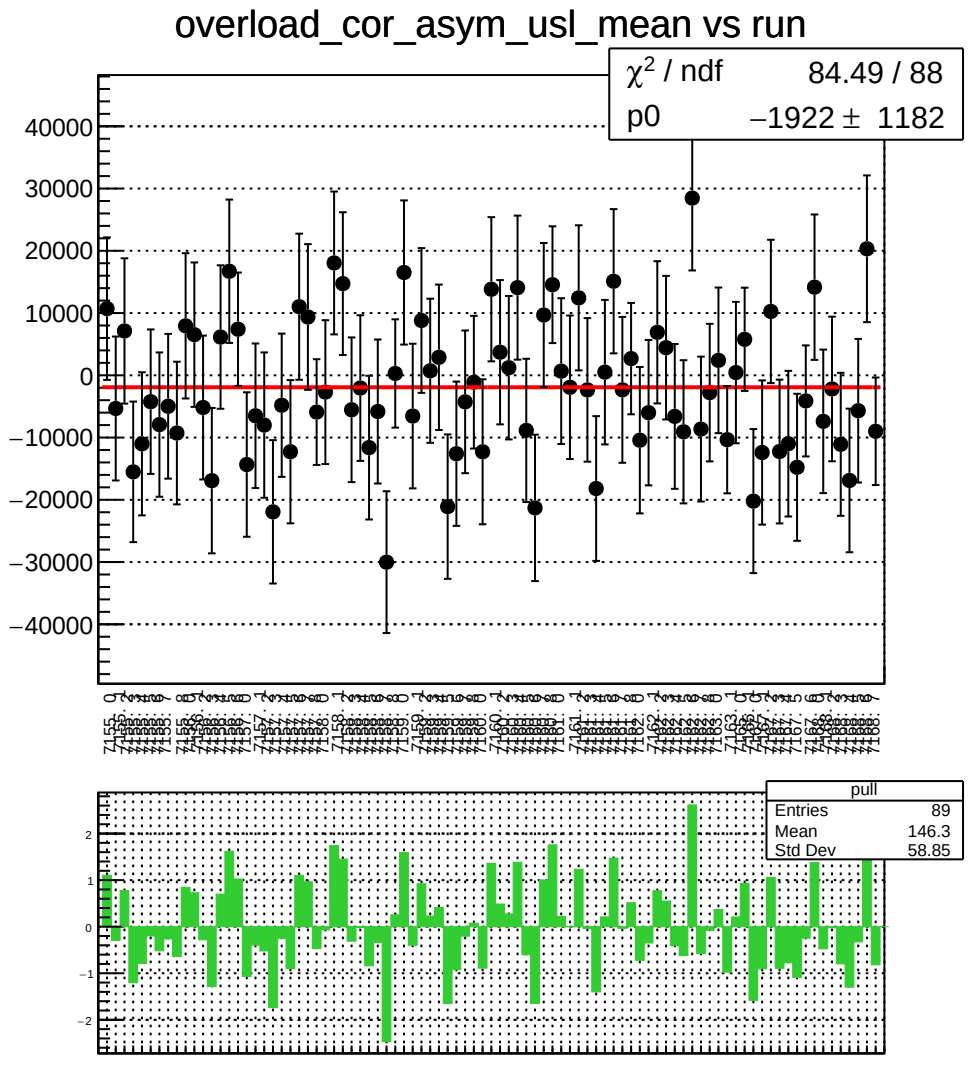

pull1D
Entries 89
Mean −0.004678
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

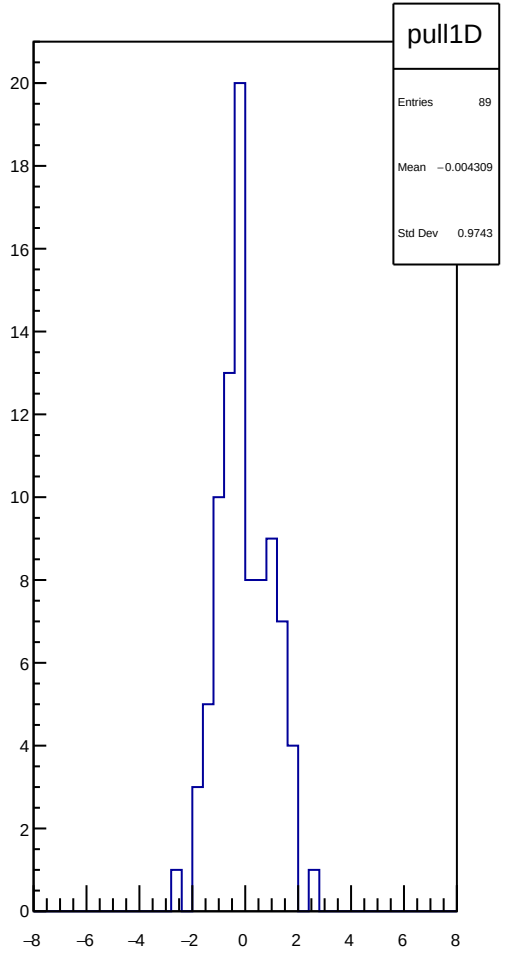

cor_asym_usl_rms vs run
χ² / ndf 114.2 / 88
p0 1101 ± 0.8369
1130
1120
1110
1100
1090
1080
1070
1060

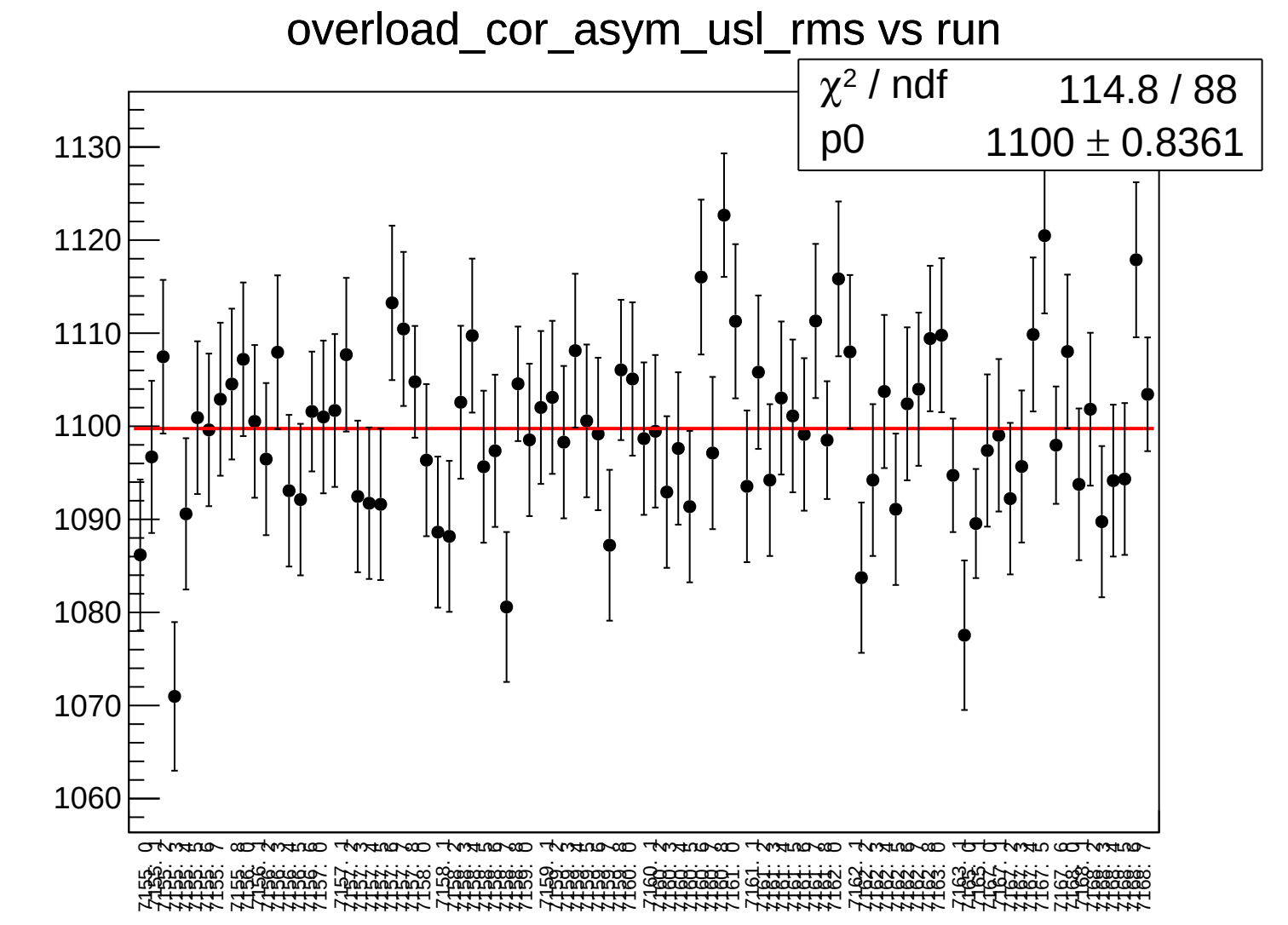

asym_usl_cor_correction_mean vs run
χ² / ndf 72.45 / 88
p0 −35.41± 2493
pull
Entries 89
Mean −22.18
Std Dev 0
pull1D
Entries 89
Mean 0.02511
Std Dev 0.9019

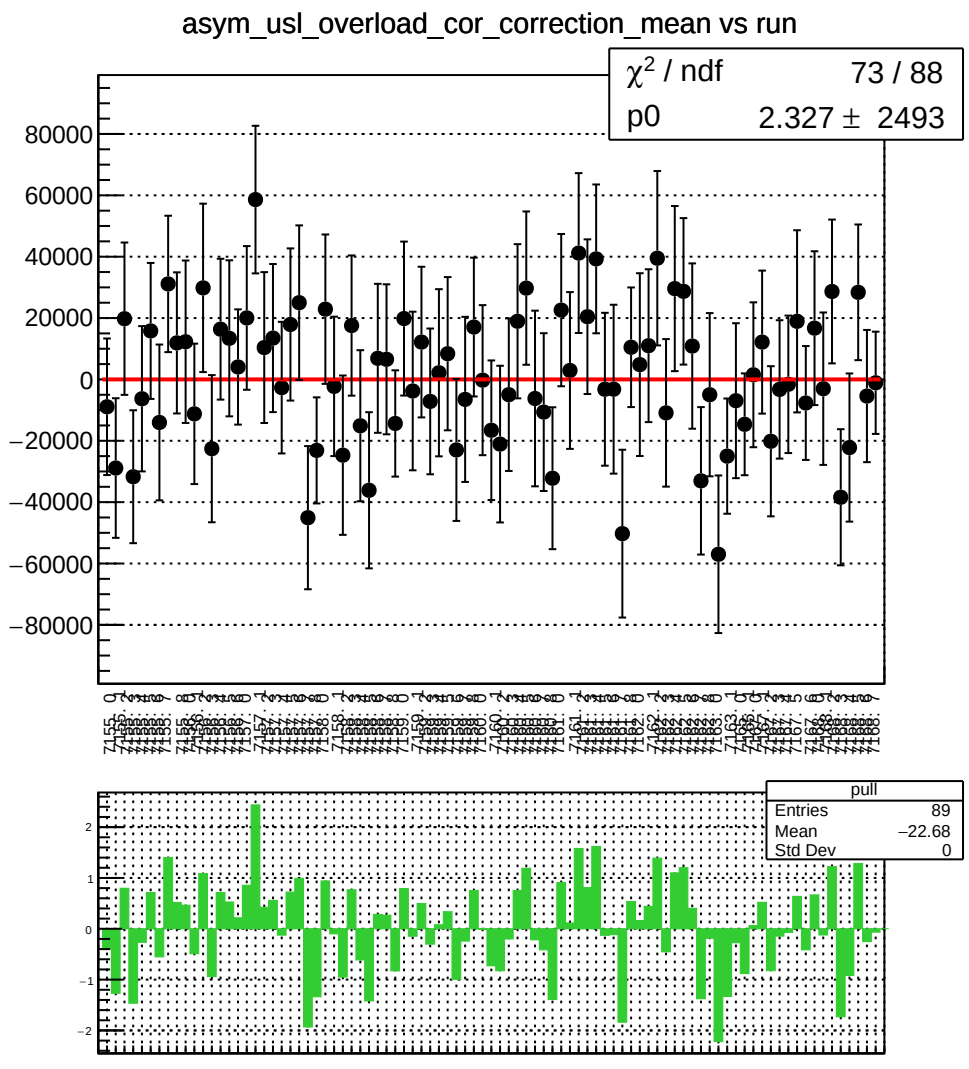
asym_usl_cor_correction_rms vs run

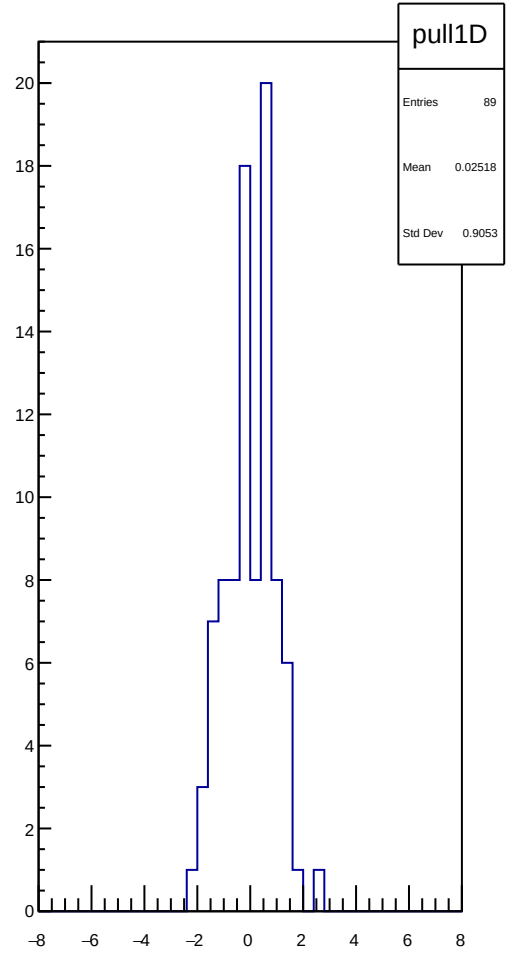


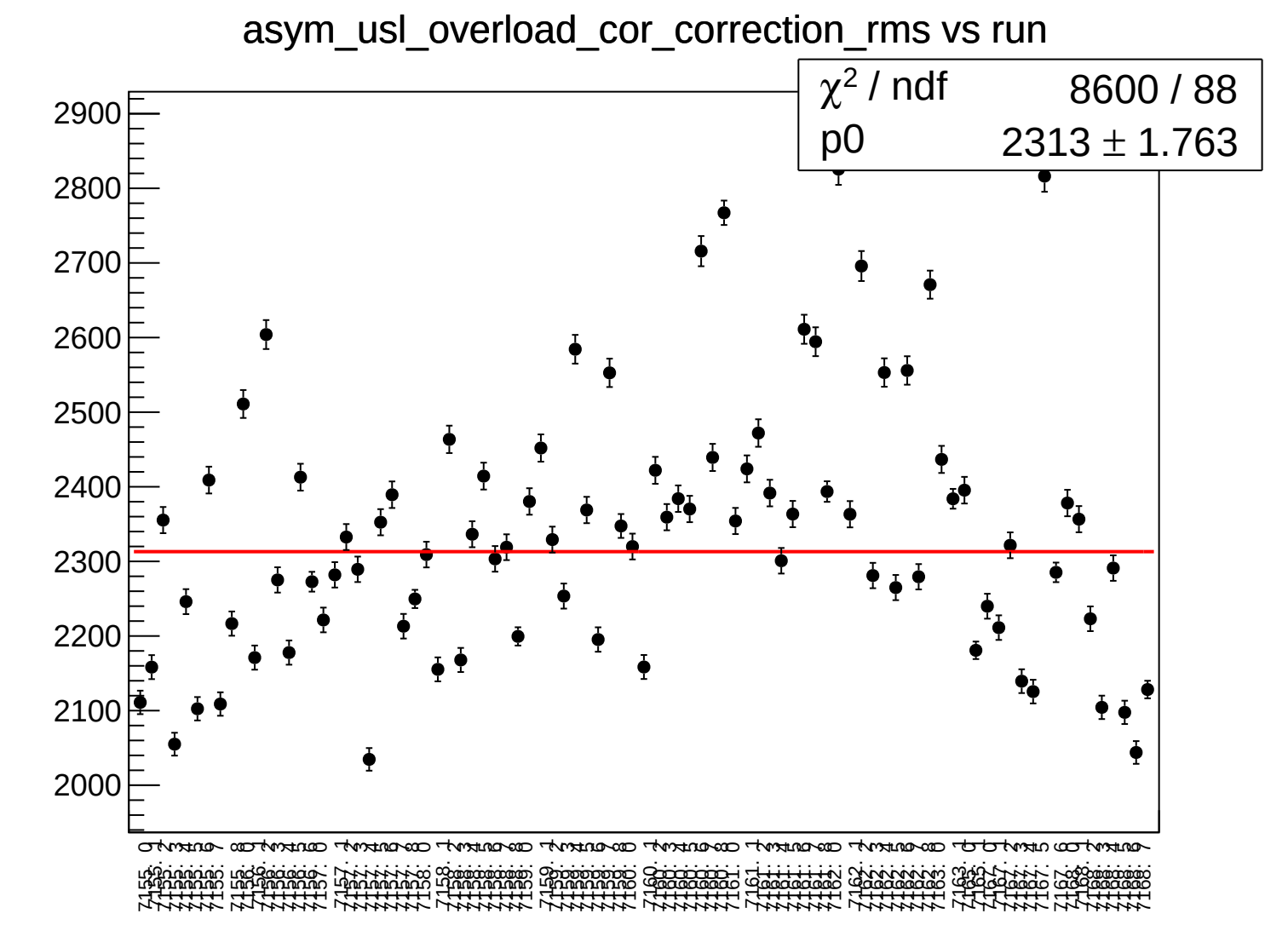

overload_cor_asym_usl_mean vs run
χ² / ndf 84.49 / 88
p0 −1922 ± 1182
pull
Entries 89
Mean 146.3
Std Dev 58.85

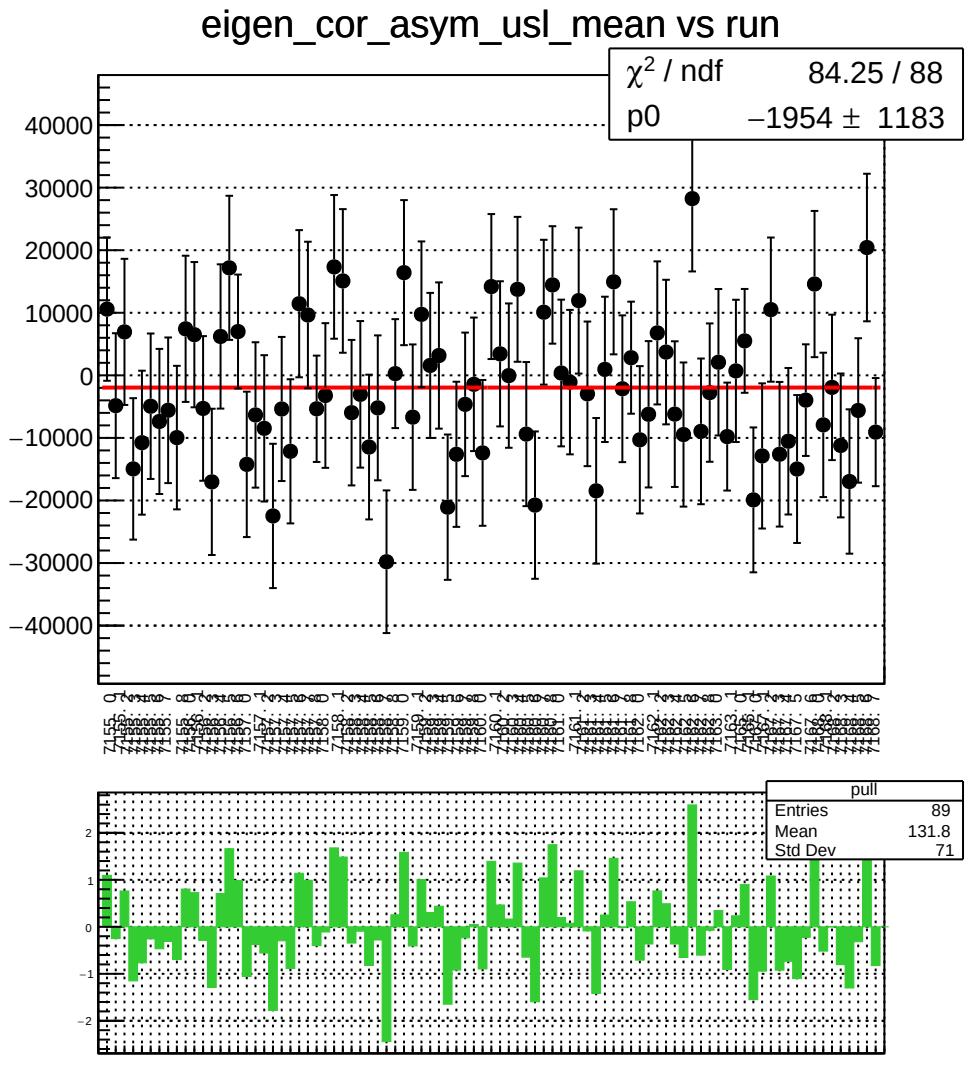

pull1D
Entries 89
Mean −0.004309
Std Dev 0.9743

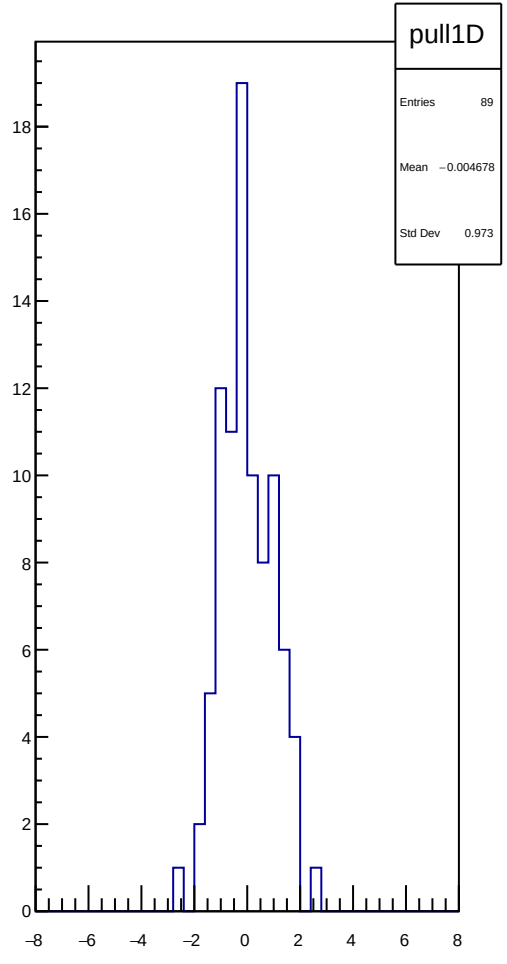

overload_cor_asym_usl_rms vs run
χ² / ndf 114.8 / 88
p0 1100 ± 0.8361
1130
1120
1110
1100
1090
1080
1070
1060

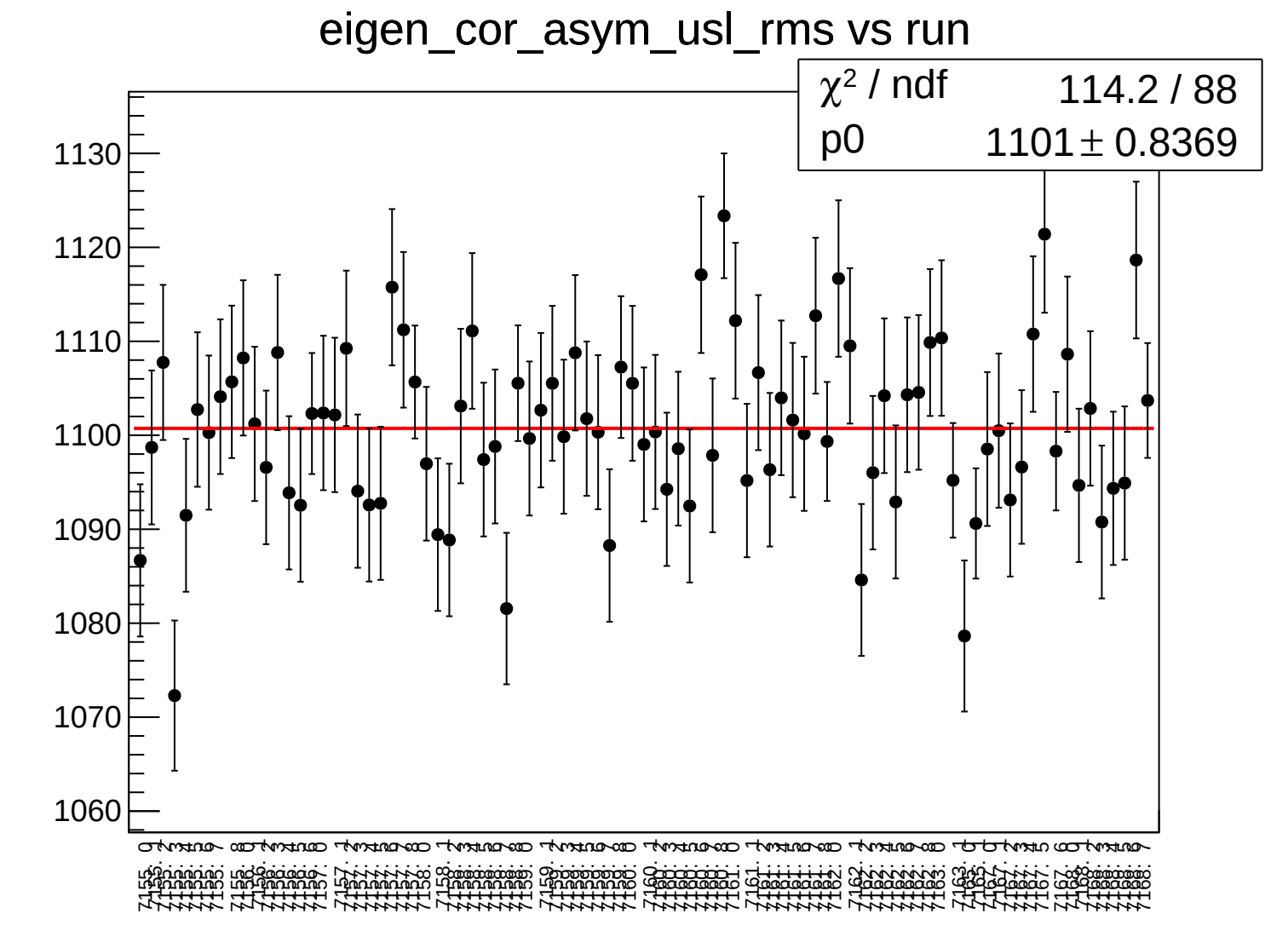

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 73 / 88
p0 2.327 ± 2493
pull
Entries 89
Mean −22.68
Std Dev 0

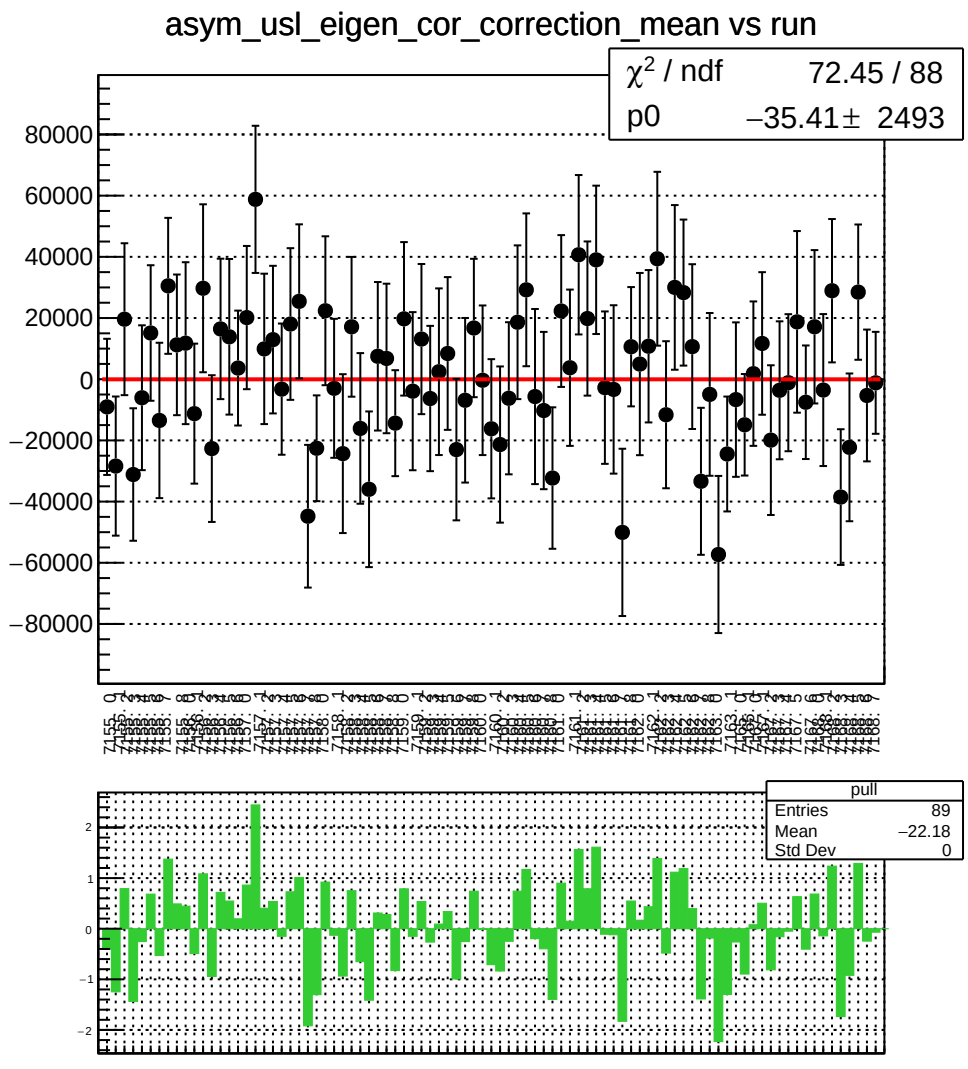

pull1D
Entries 89
Mean 0.02518
Std Dev 0.9053

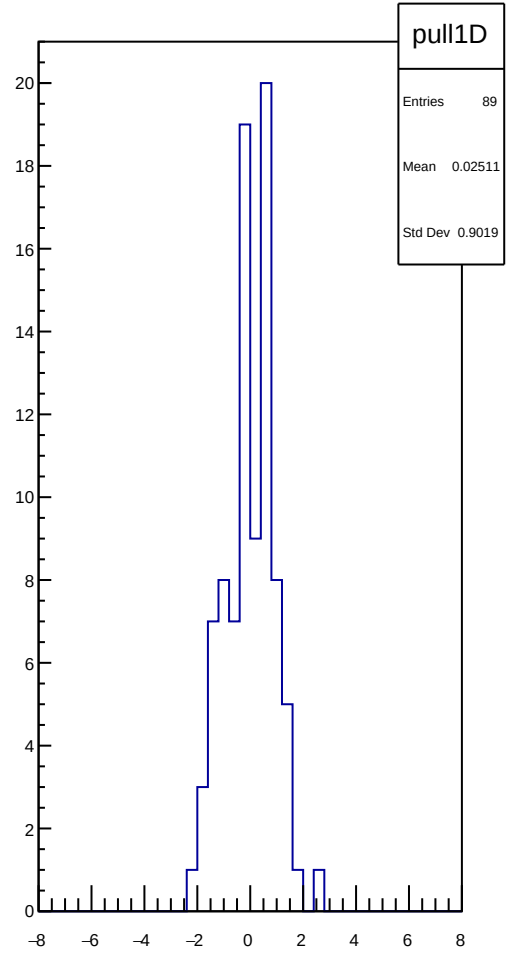

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 8600 / 88
p0 2313 ± 1.763
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

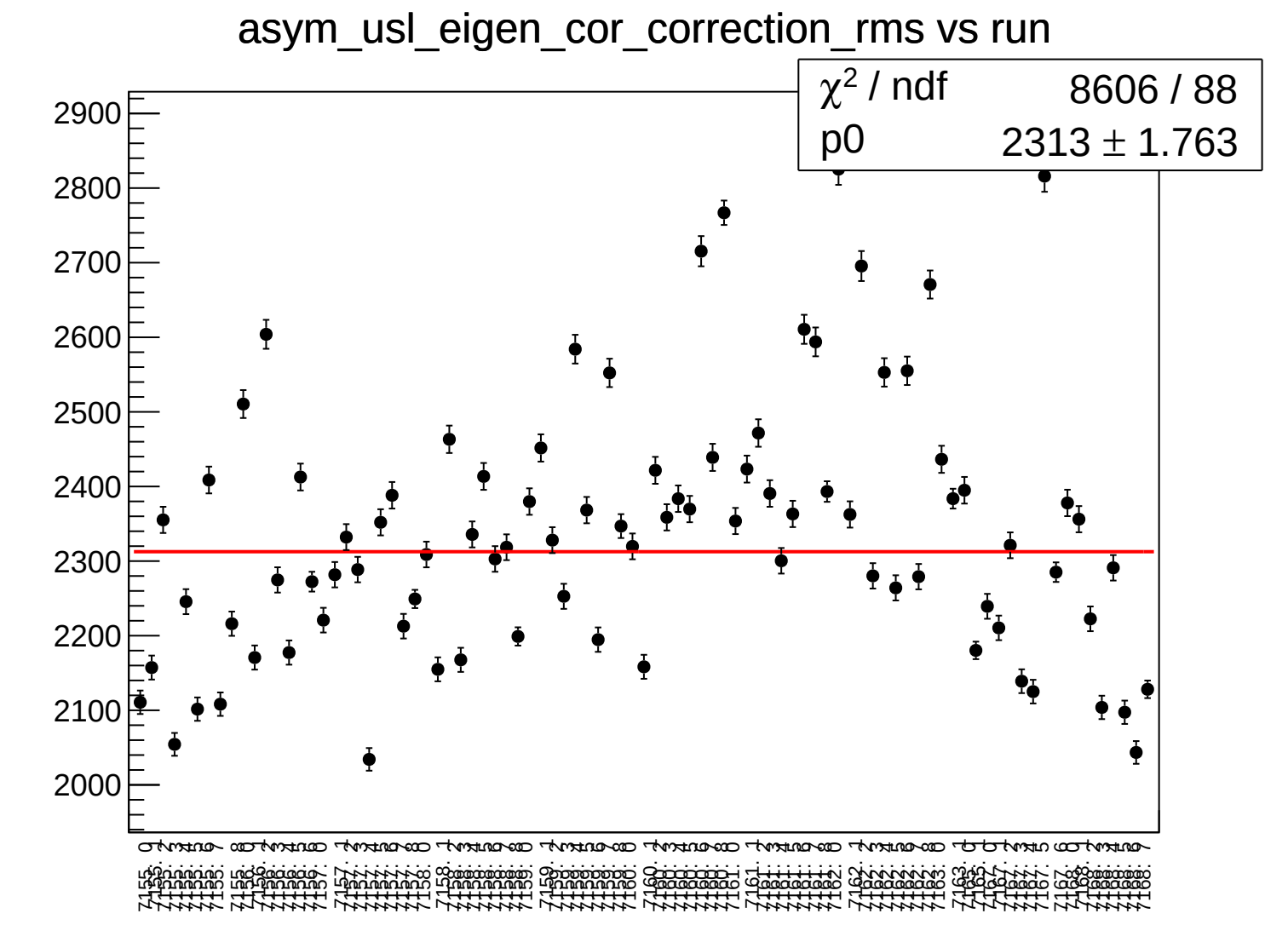

eigen_cor_asym_usl_mean vs run
χ² / ndf 84.25 / 88
p0 −1954 ± 1183
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 131.8
Std Dev 71
2
1
0
−1
−2

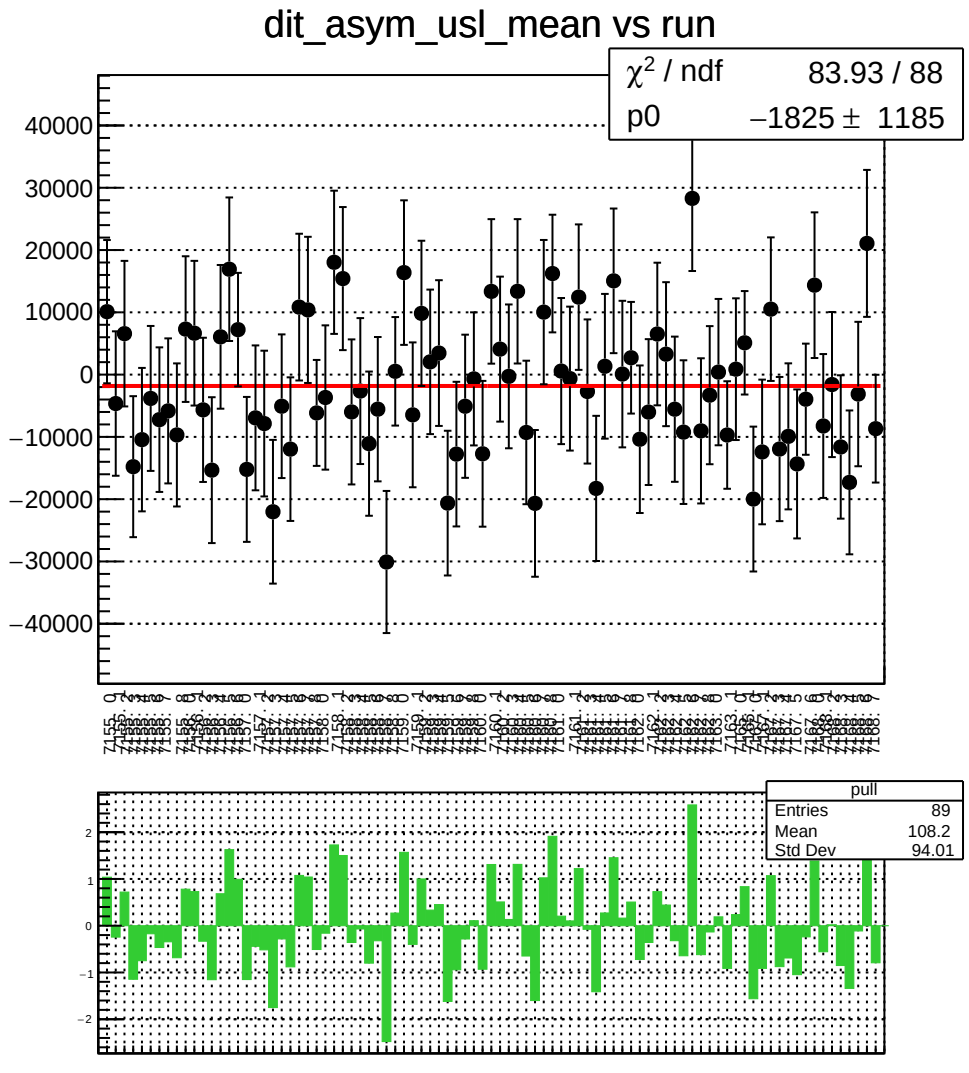

pull1D
Entries 89
Mean −0.004678
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

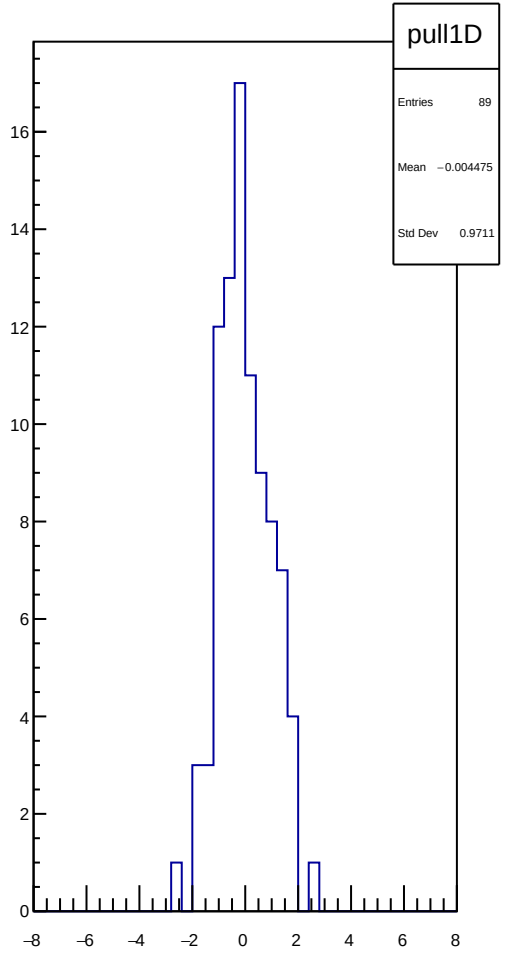

eigen_cor_asym_usl_rms vs run
χ² / ndf 114.2 / 88
p0 1101 ± 0.8369
1130
1120
1110
1100
1090
1080
1070
1060

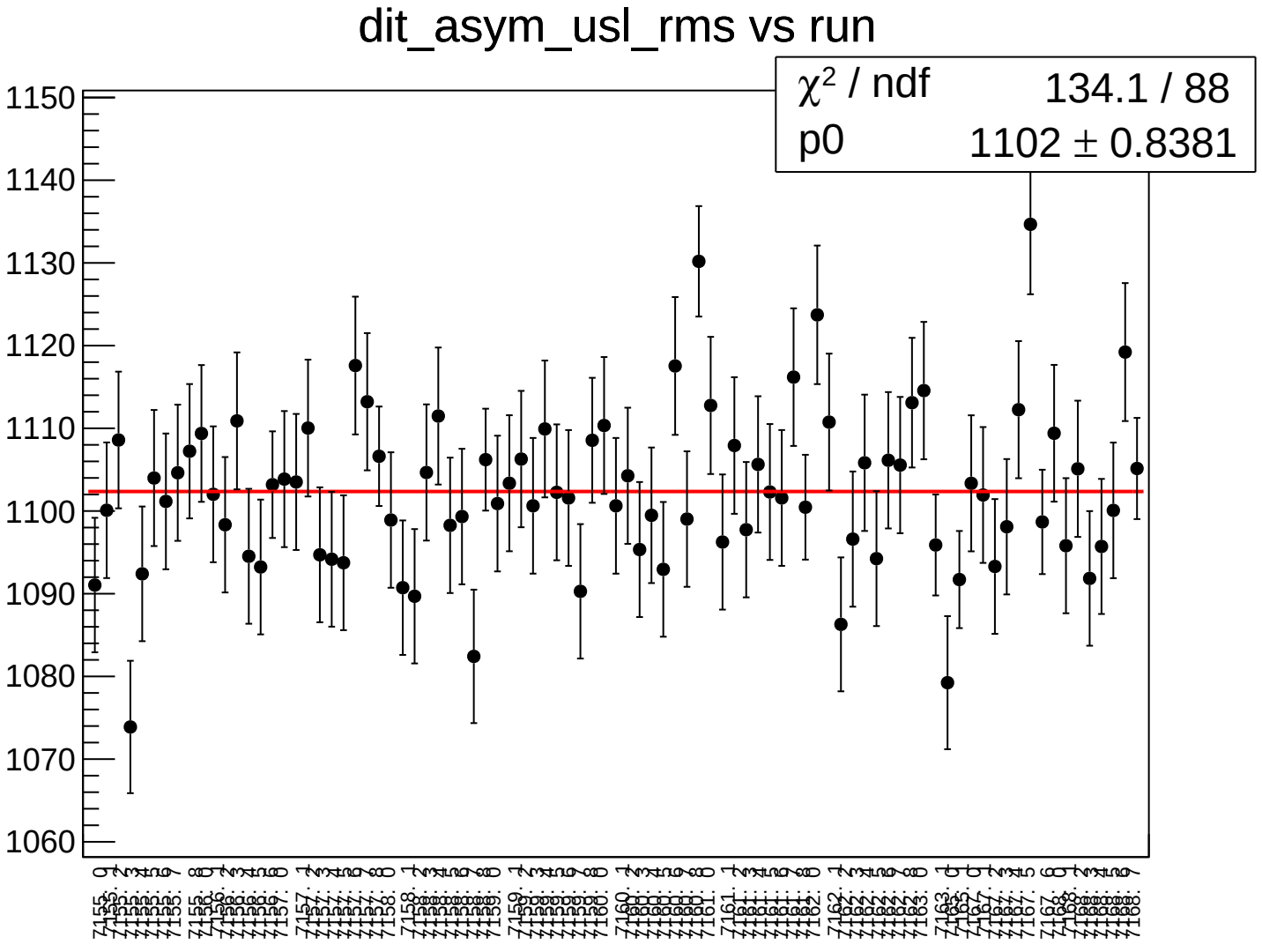

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 72.45 / 88
p0 −35.41± 2493
pull
Entries 89
Mean −22.18
Std Dev 0

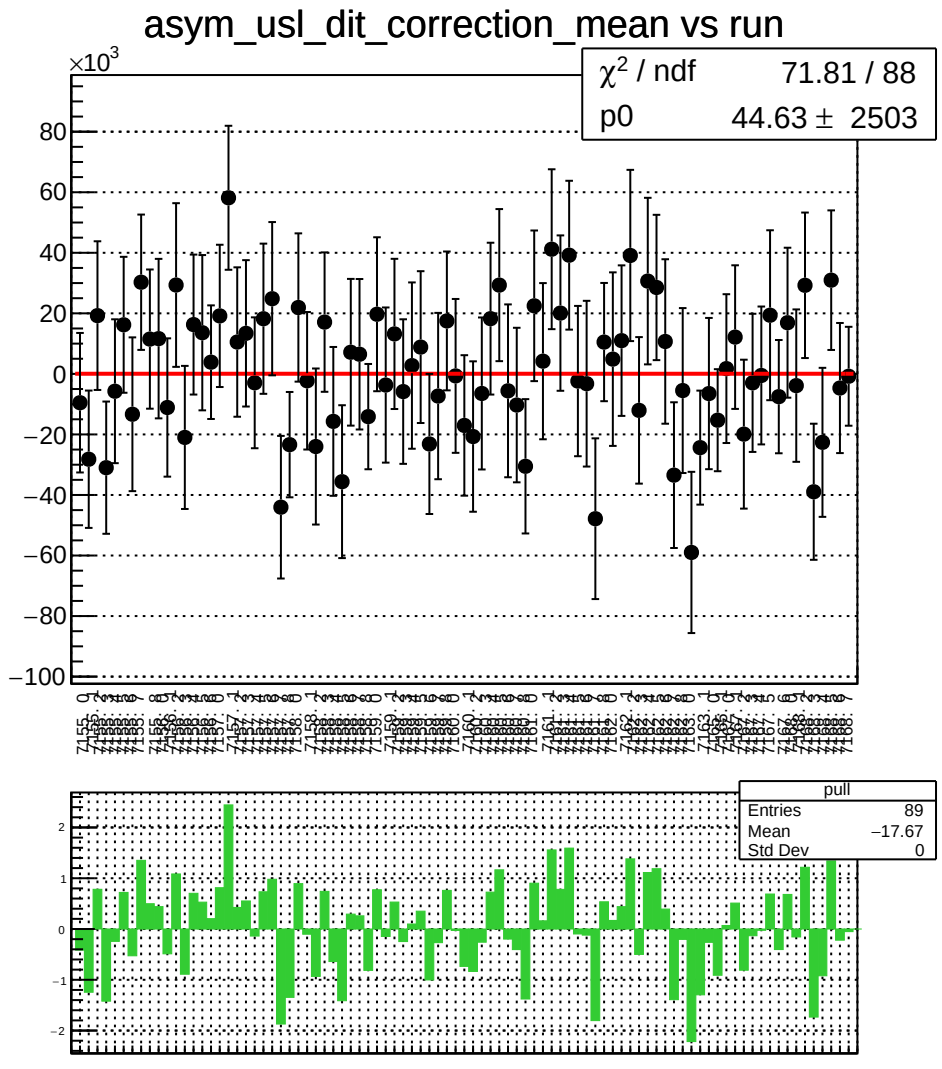

pull1D
Entries 89
Mean 0.02511
Std Dev 0.9019

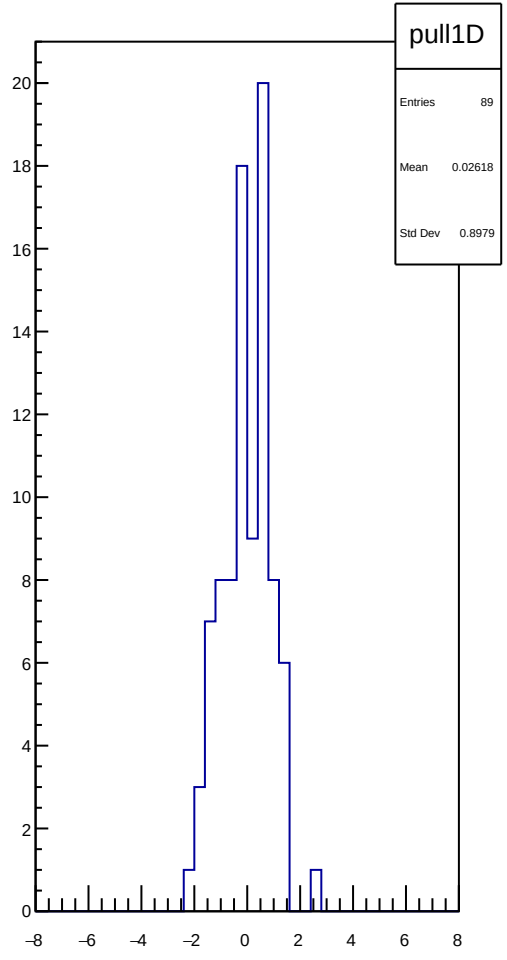

asym_usl_eigen_cor_correction_rms vs run
χ^2 / ndf 8606 / 88
p0 2313 ± 1.763
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

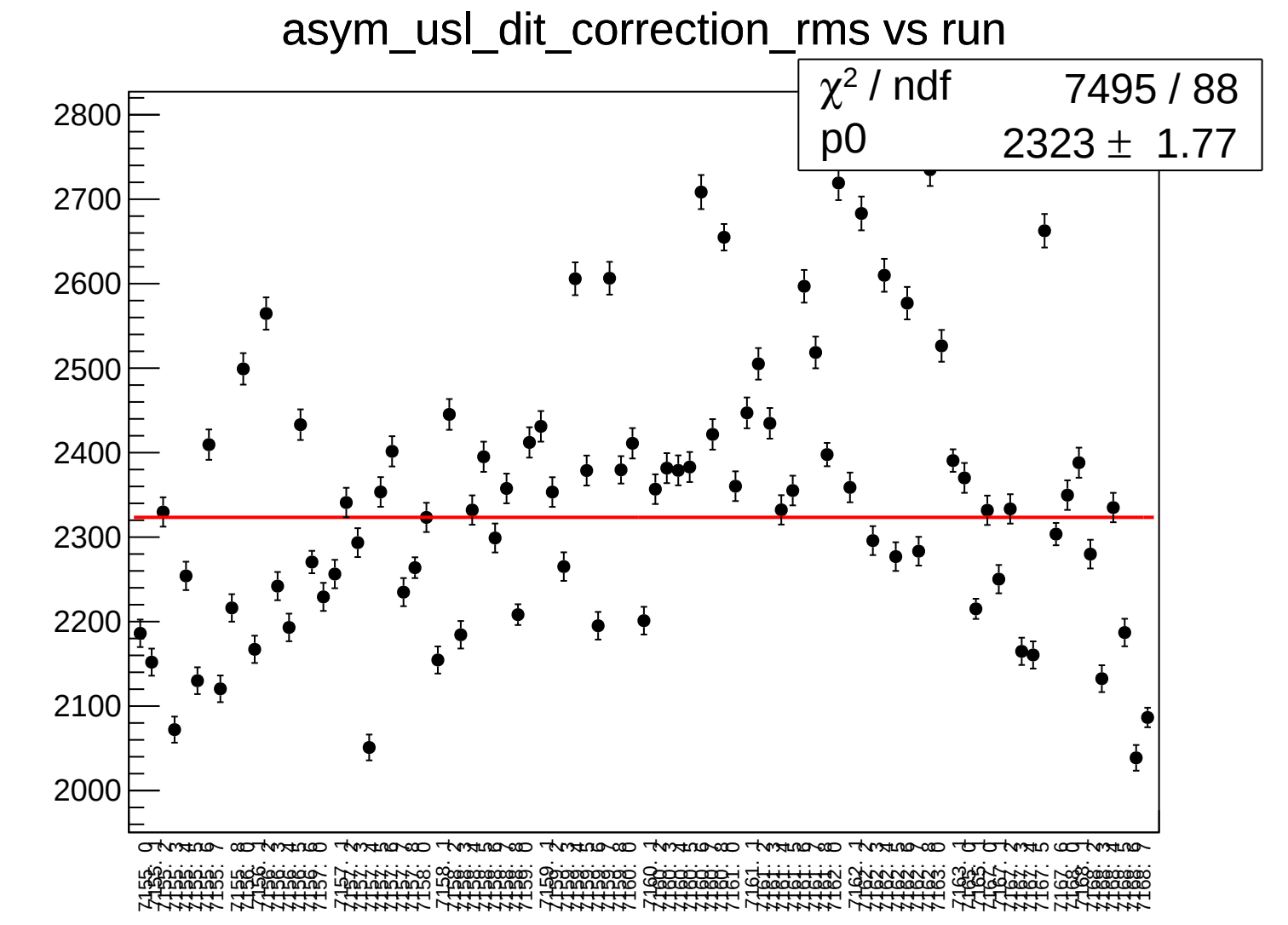

dit_asym_usl_mean vs run
χ² / ndf 83.93 / 88
p0 −1825 ± 1185
pull
Entries 89
Mean 108.2
Std Dev 94.01

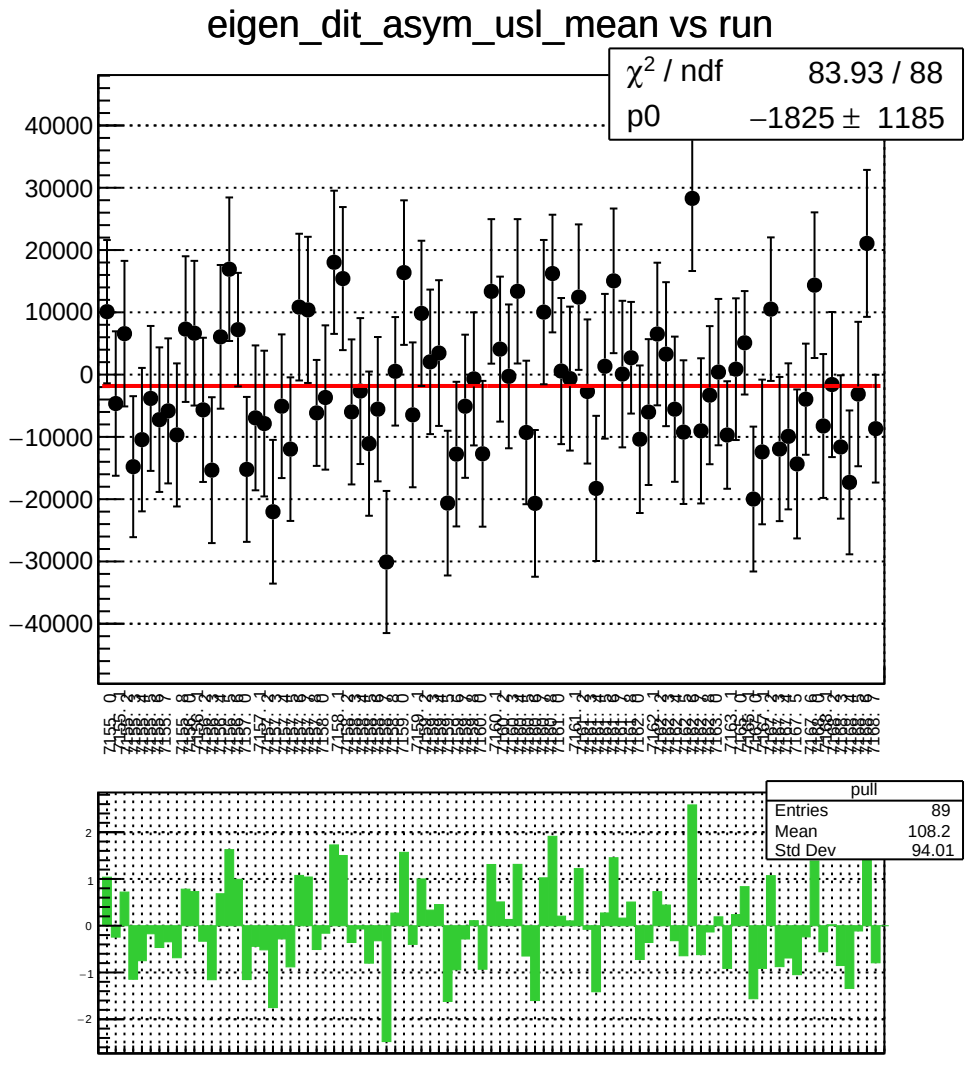

pull1D
Entries 89
Mean −0.004475
Std Dev 0.9711

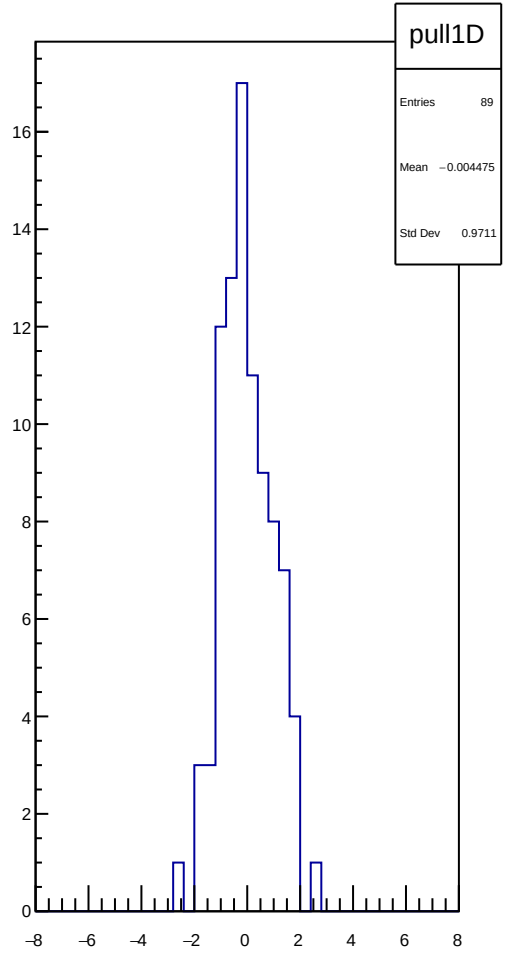

dit_asym_usl_rms vs run
χ² / ndf 134.1 / 88
p0 1102 ± 0.8381
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060

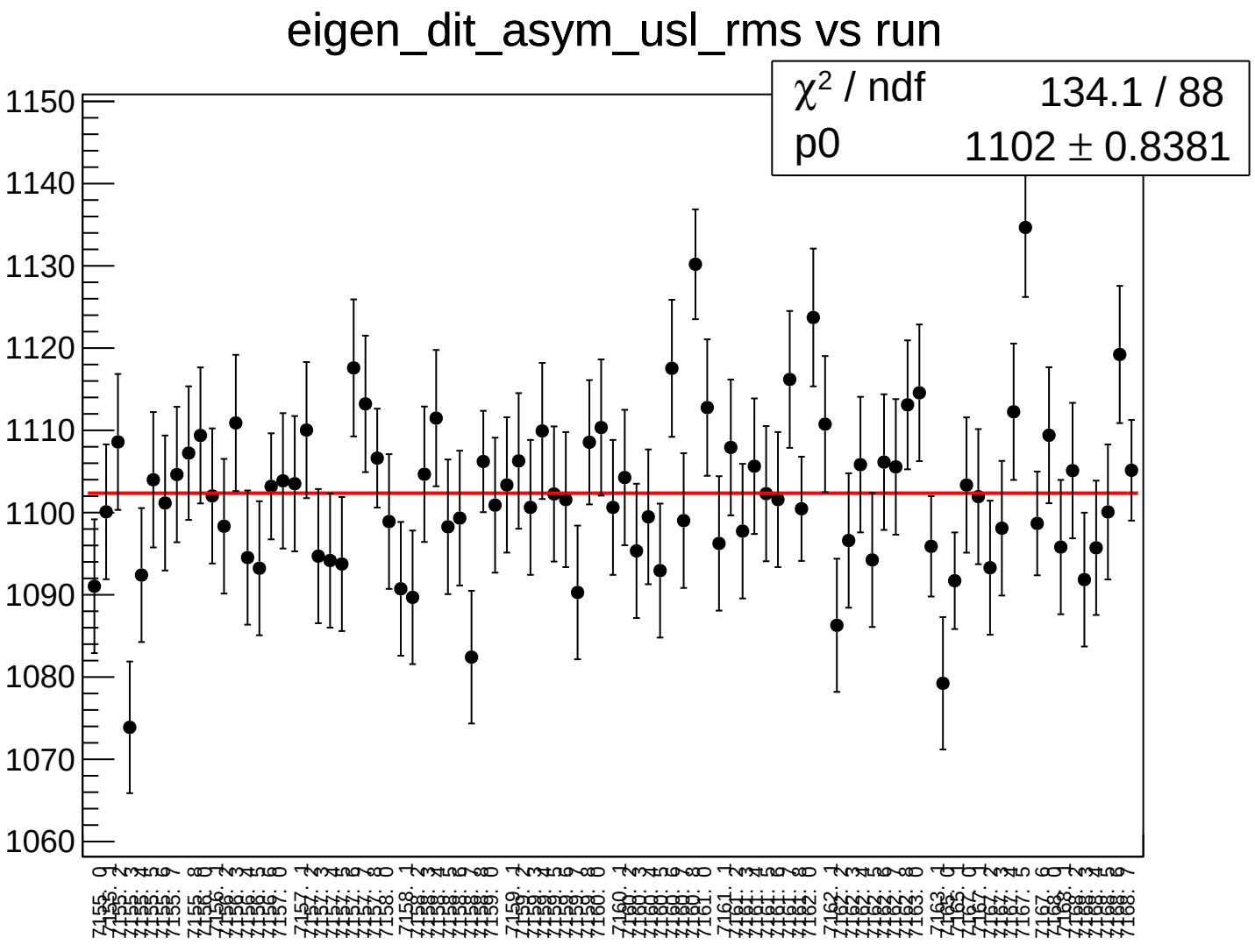

asym_usl_dit_correction_mean vs run
×10^3
χ² / ndf 71.81 / 88
p0 44.63 ± 2503
pull
Entries 89
Mean −17.67
Std Dev 0

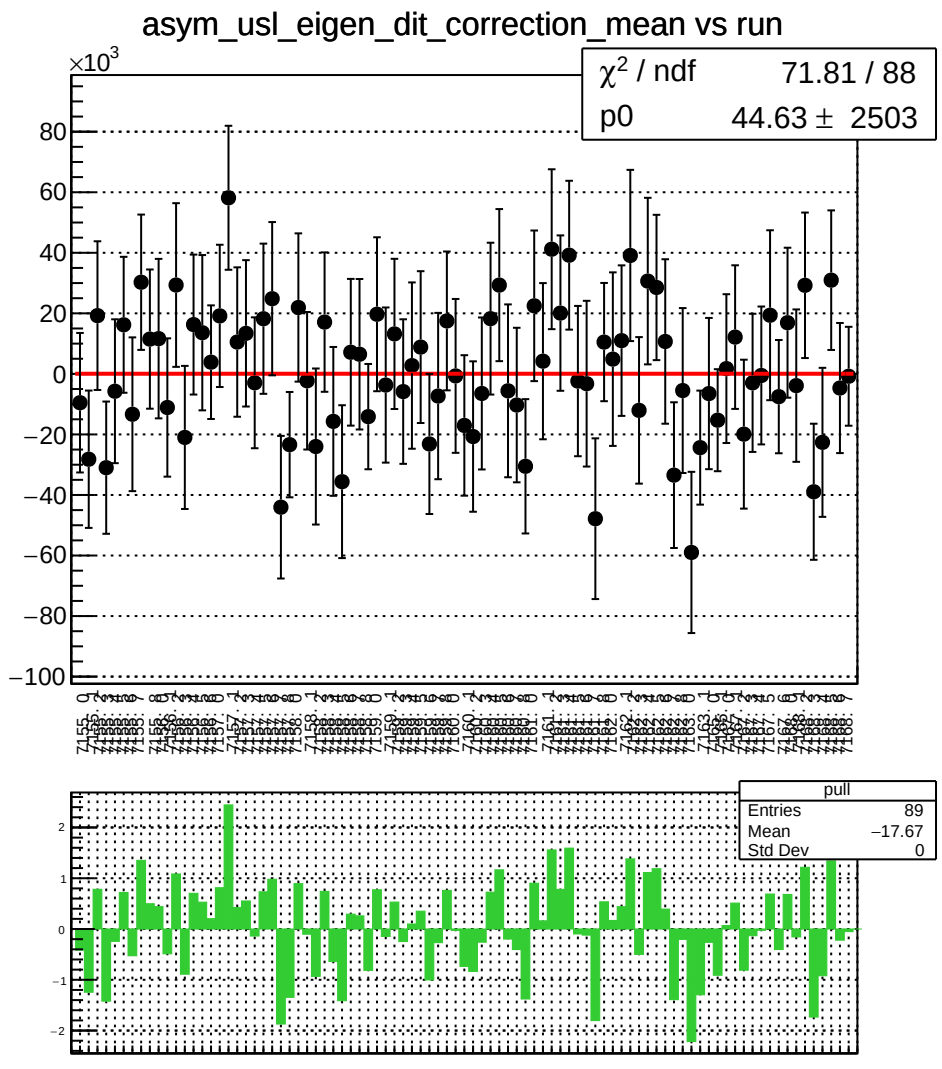

pull1D
Entries 89
Mean 0.02618
Std Dev 0.8979

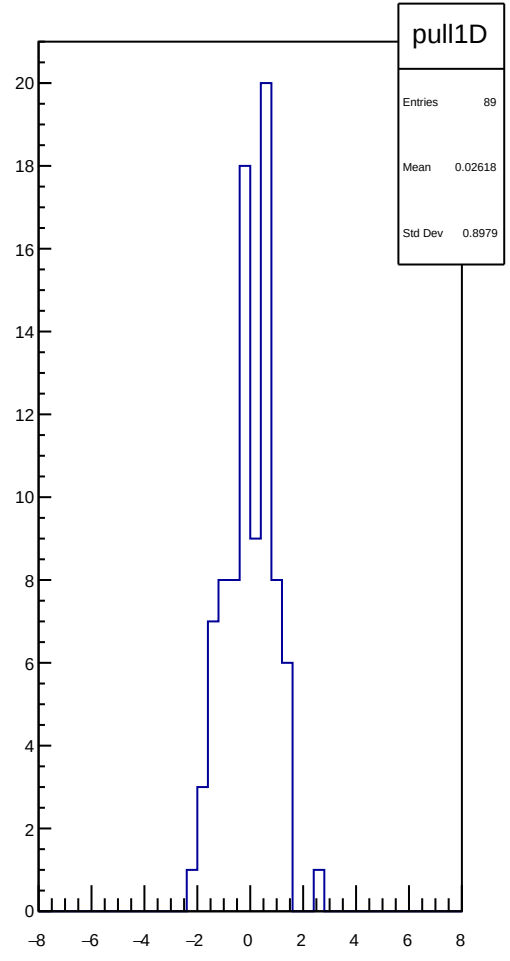

asym_usl_dit_correction_rms vs run
χ² / ndf 7495 / 88
p0 2323 ± 1.77
2800
2700
2600
2500
2400
2300
2200
2100
2000

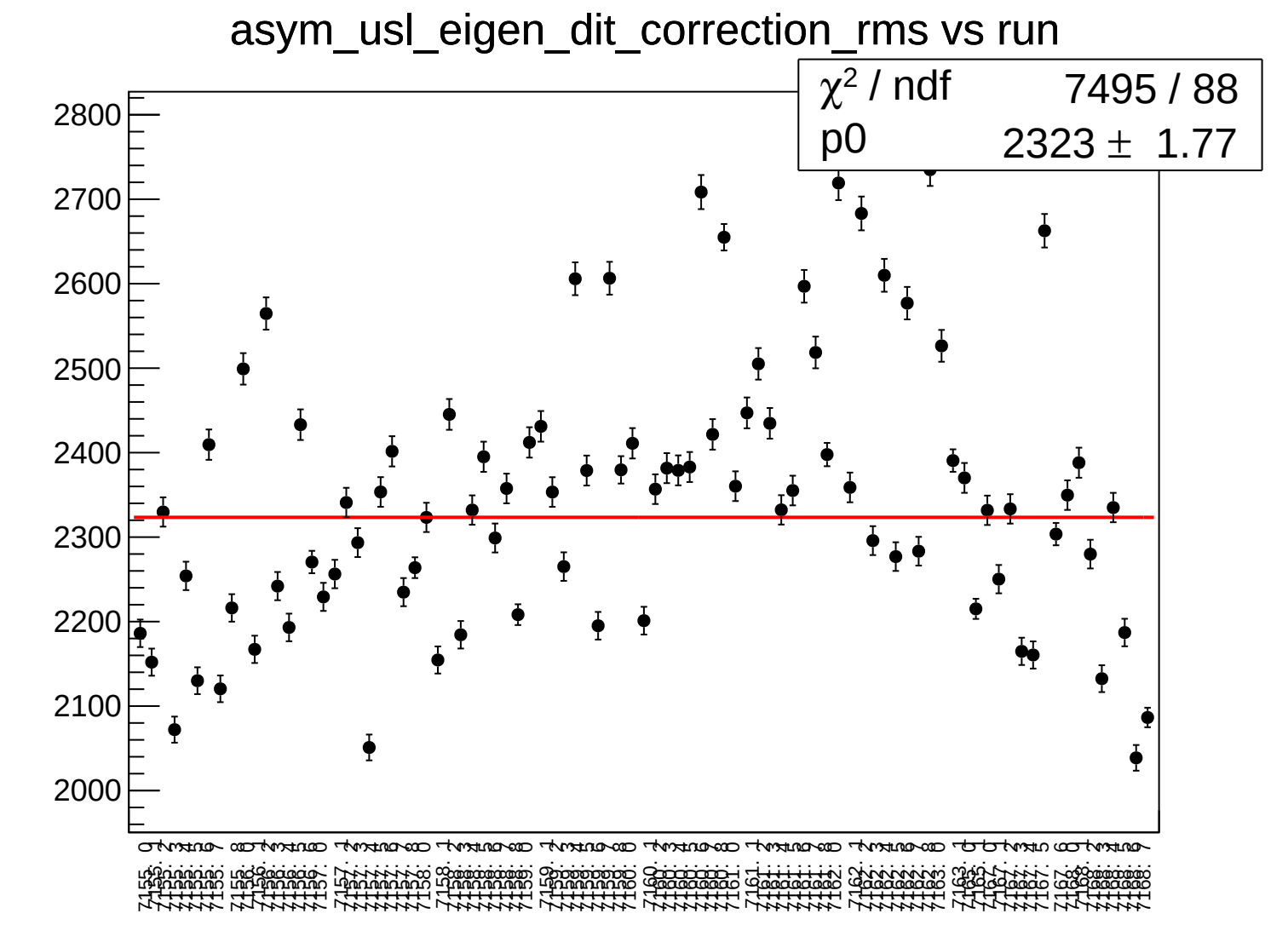

eigen_dit_asym_usl_mean vs run
χ² / ndf 83.93 / 88
p0 −1825 ± 1185
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 108.2
Std Dev 94.01
2
1
0
−1
−2

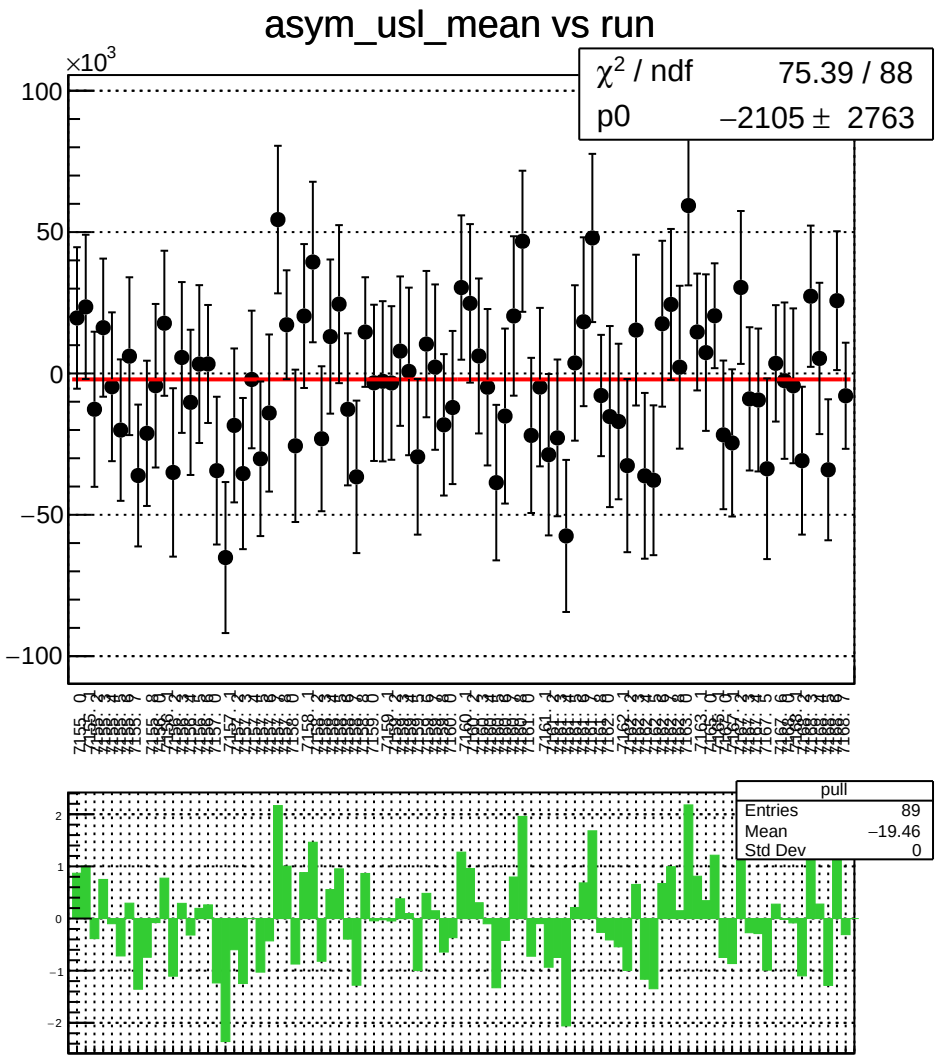

pull1D
Entries 89
Mean −0.004475
Std Dev 0.9711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

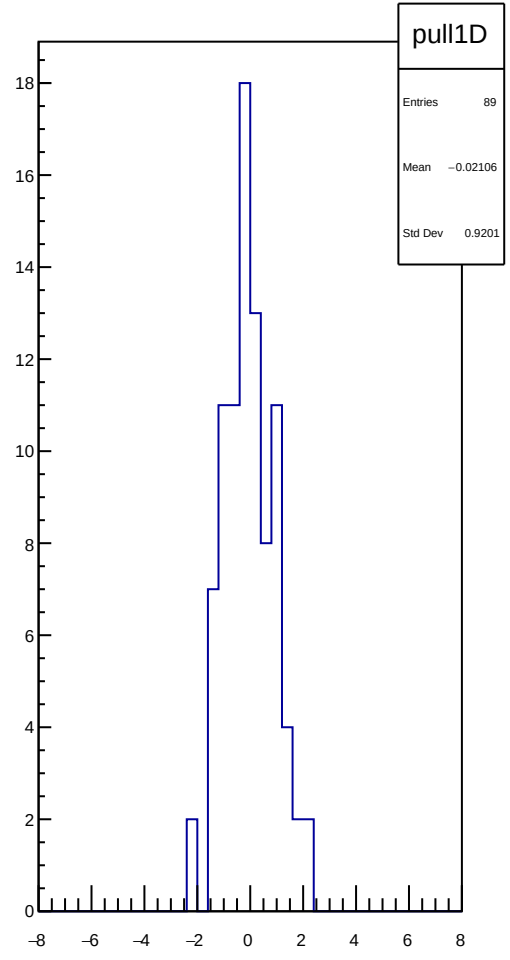

eigen_dit_asym_usl_rms vs run
χ² / ndf 134.1 / 88
p0 1102 ± 0.8381
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060

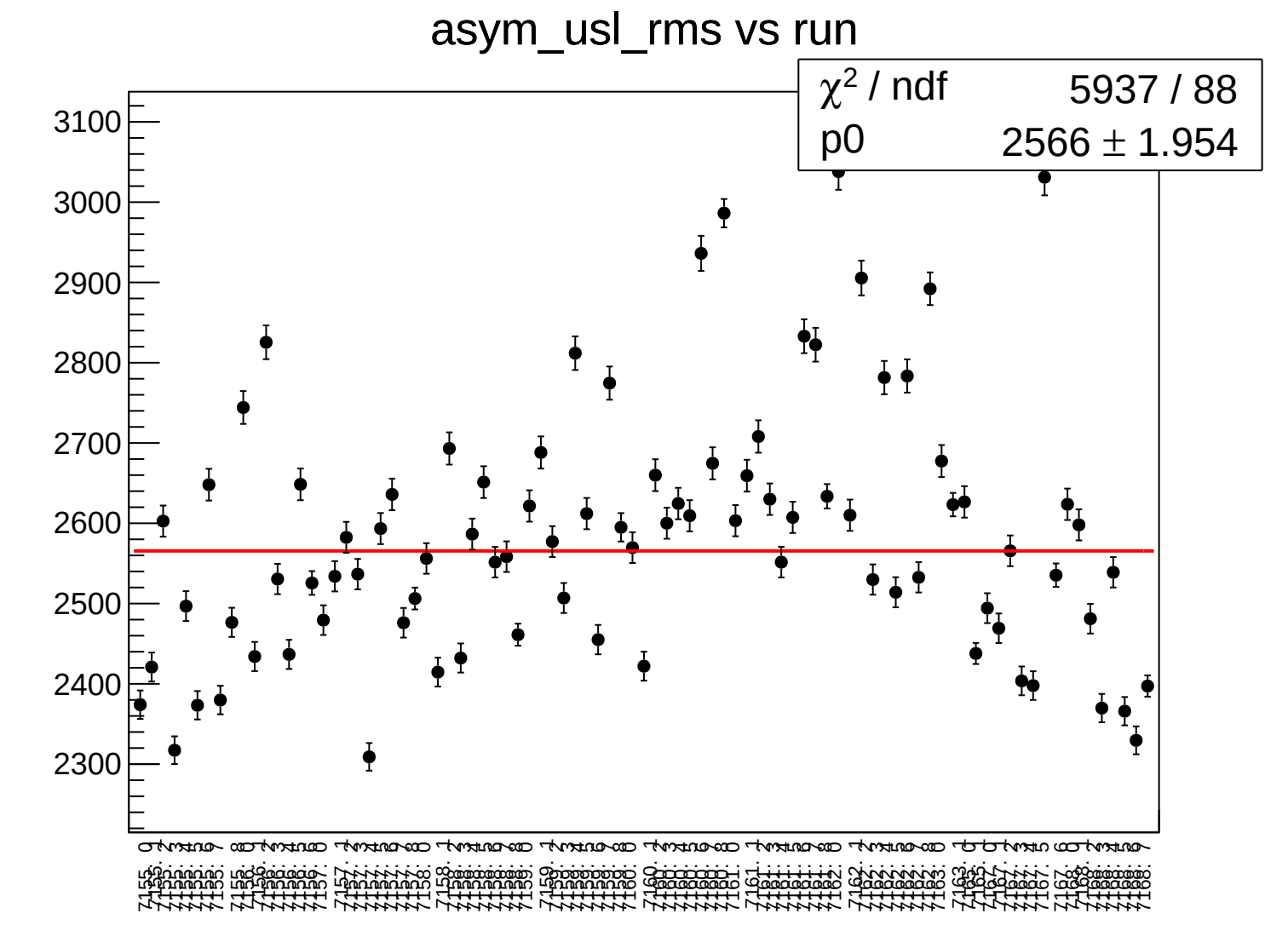

asym_usl_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 71.81 / 88
p0 44.63 ± 2503
pull
Entries 89
Mean −17.67
Std Dev 0

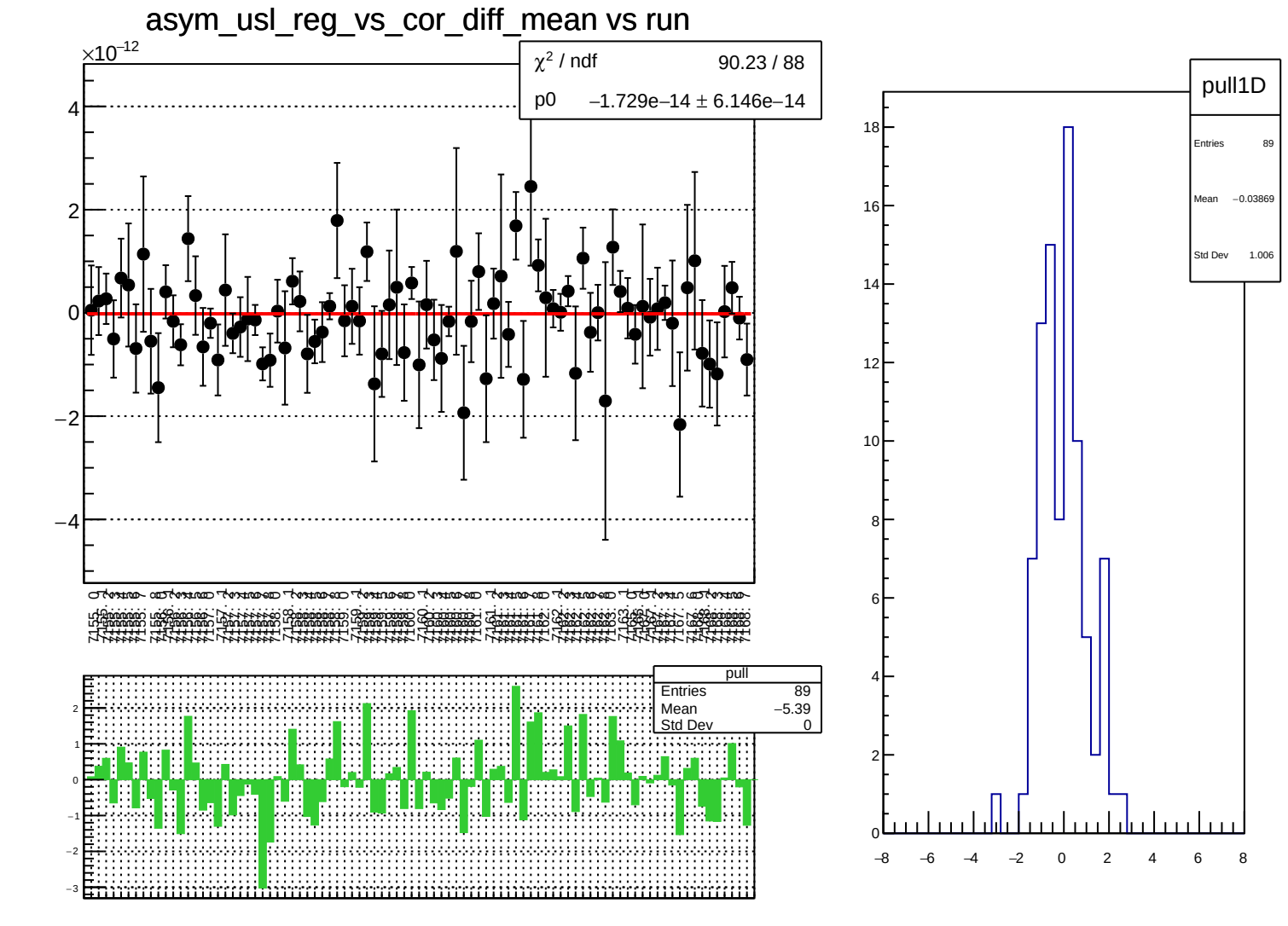

pull1D
Entries 89
Mean 0.02618
Std Dev 0.8979

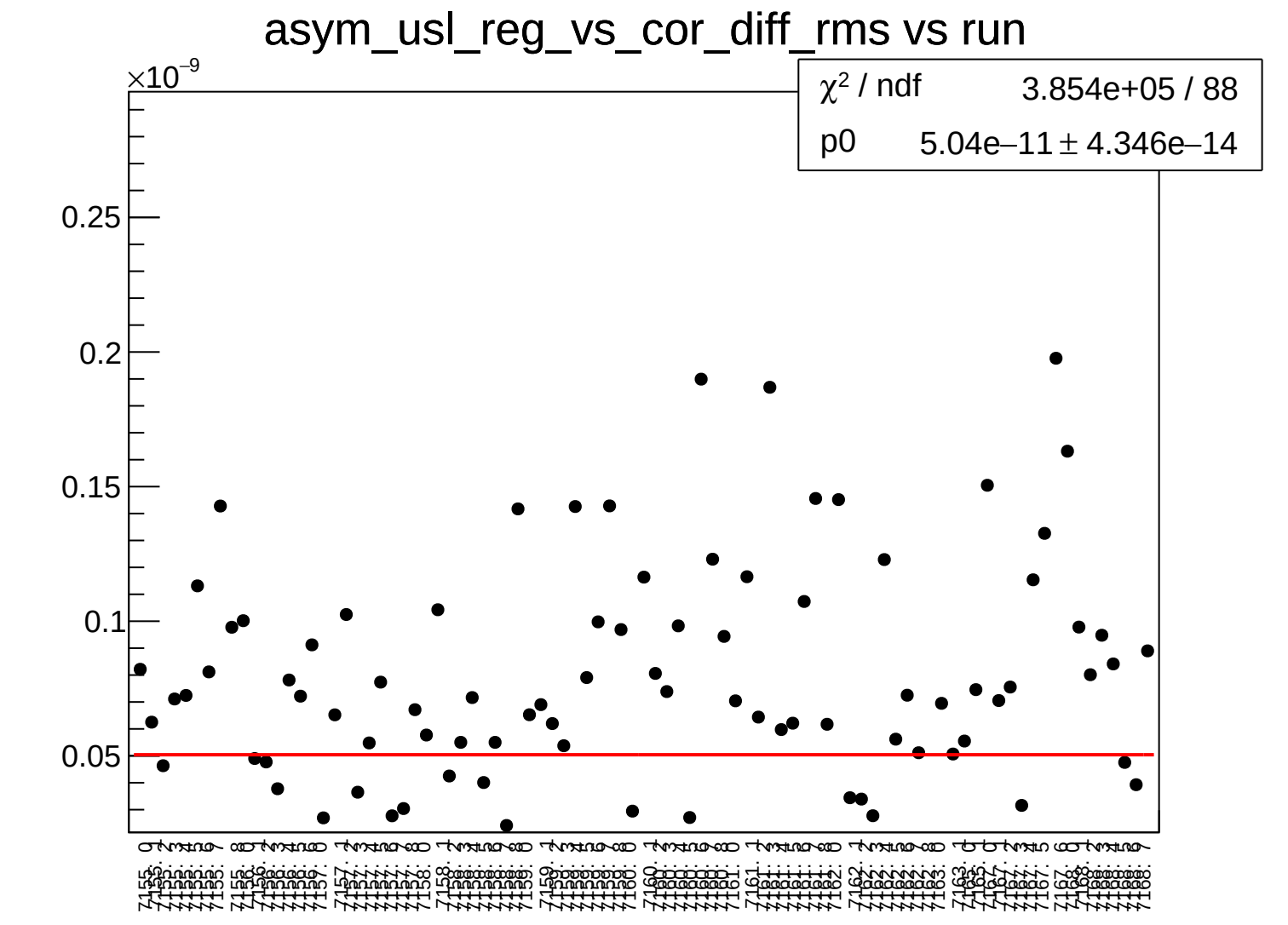

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 7495 / 88
p0 2323 ± 1.77
2800
2700
2600
2500
2400
2300
2200
2100
2000

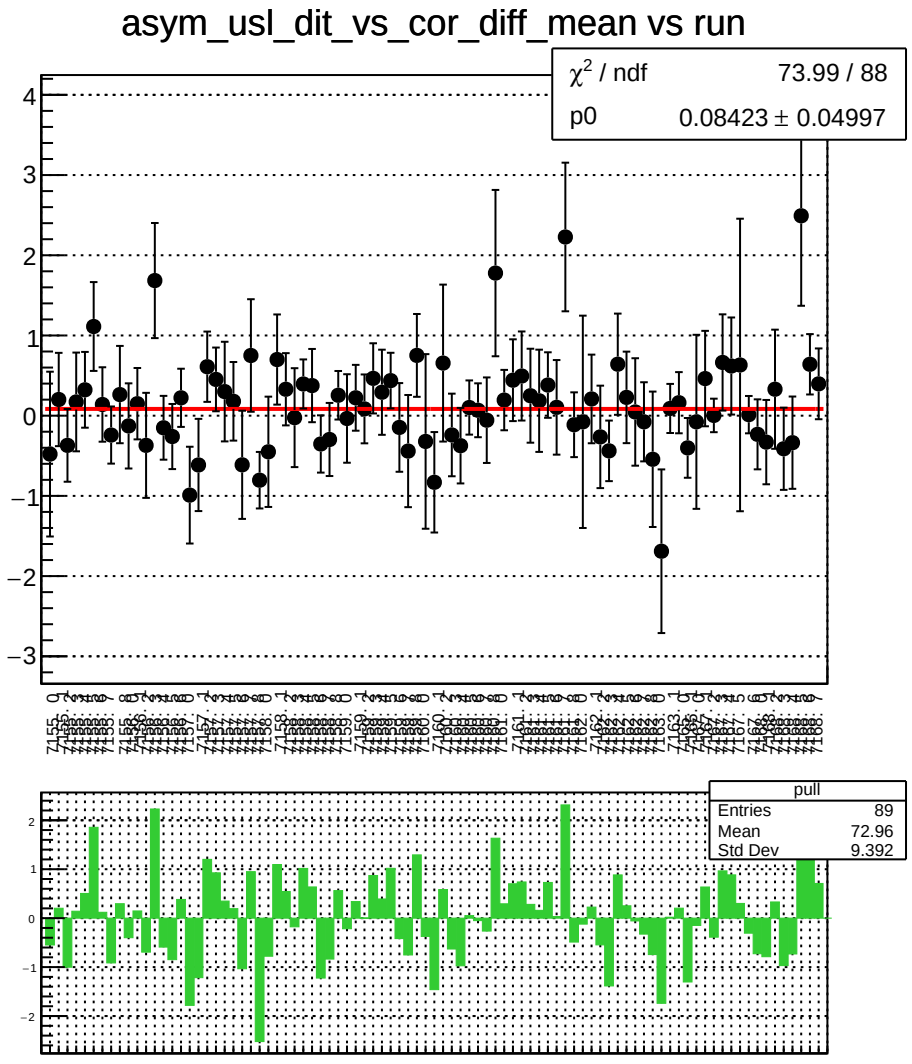

asym_usl_mean vs run
×10^3
χ² / ndf 75.39 / 88
p0 −2105 ± 2763
100
50
0
−50
−100
pull
Entries 89
Mean −19.46
Std Dev 0
2
1
0
−1
−2

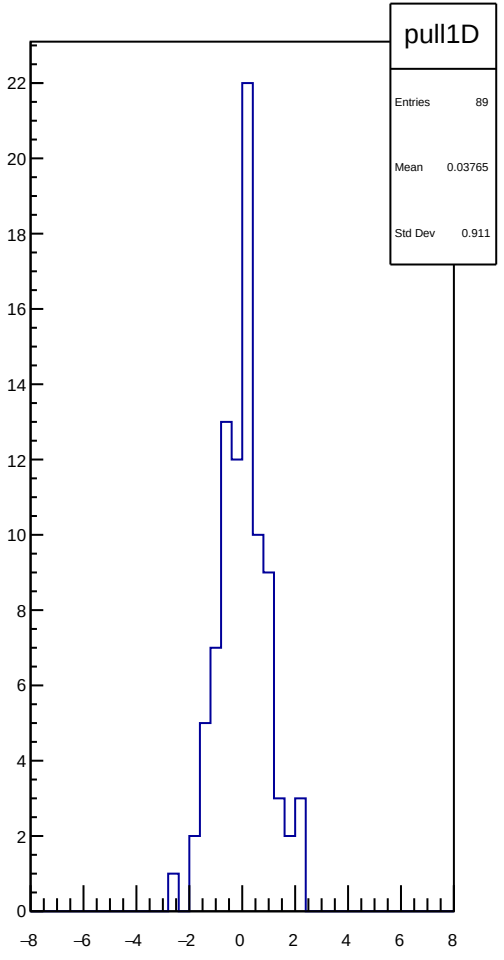

pull1D
Entries 89
Mean −0.02106
Std Dev 0.9201
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

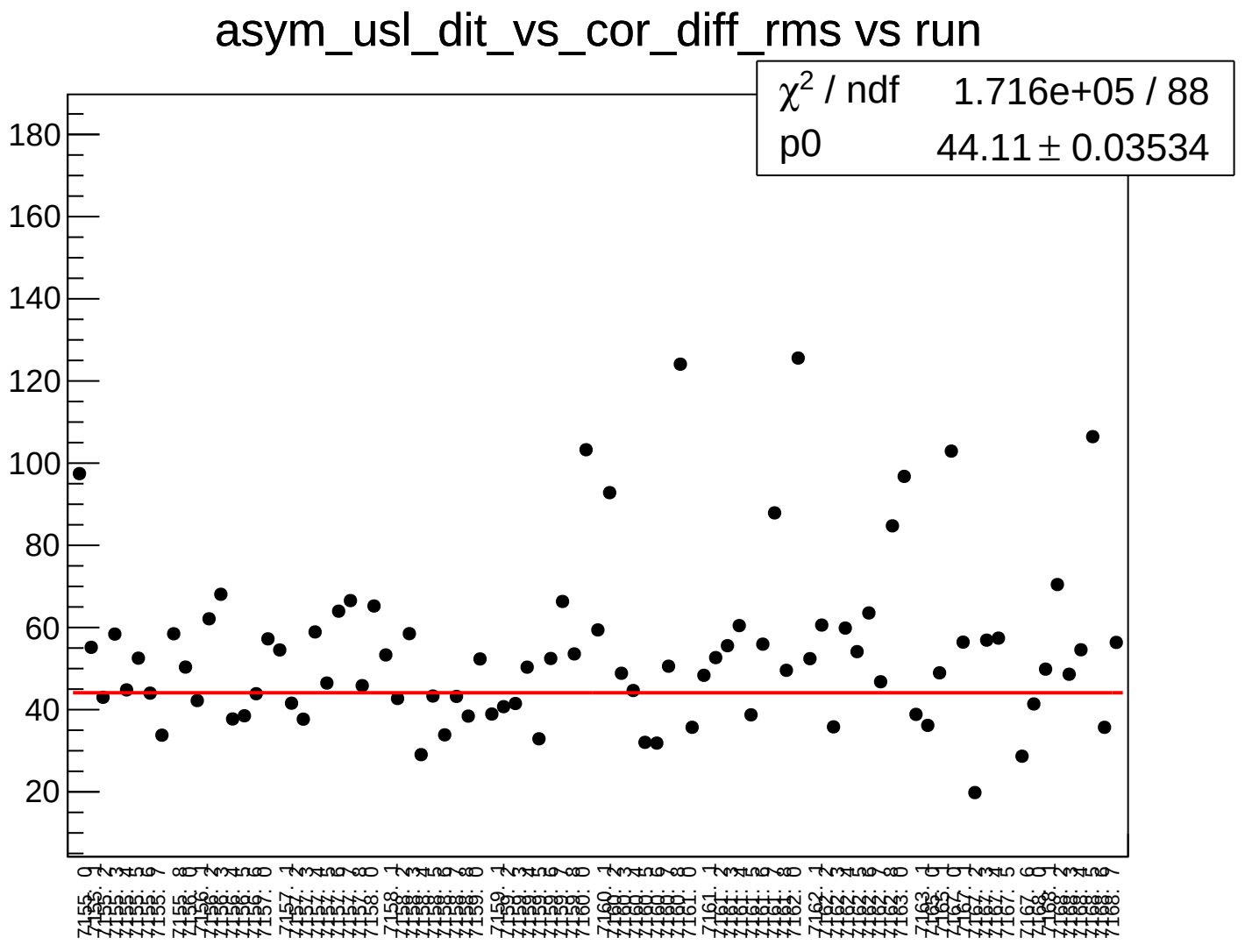

asym_usl_rms vs run
χ^2 / ndf 5937 / 88
p0 2566 ± 1.954
3100
3000
2900
2800
2700
2600
2500
2400
2300

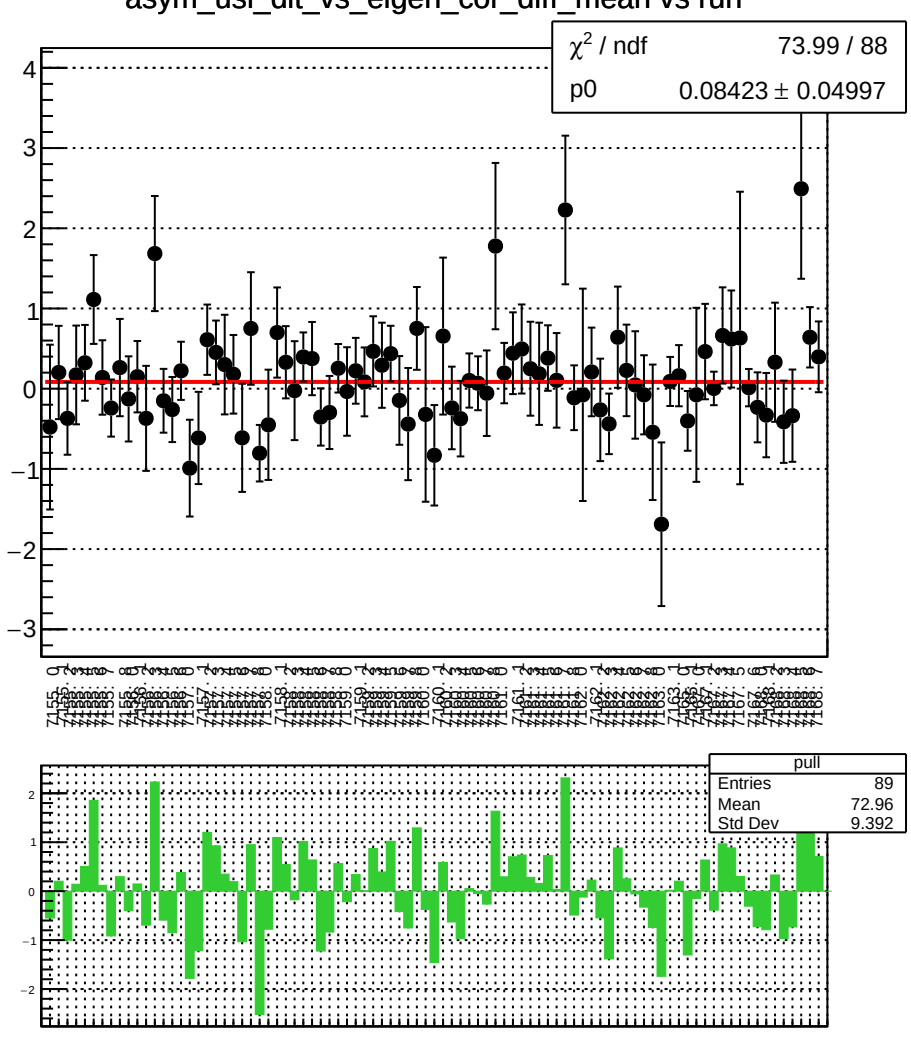

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.23 / 88
p0 −1.729e−14 ± 6.146e−14
pull
Entries 89
Mean −5.39
Std Dev 0
pull1D
Entries 89
Mean −0.03869
Std Dev 1.006

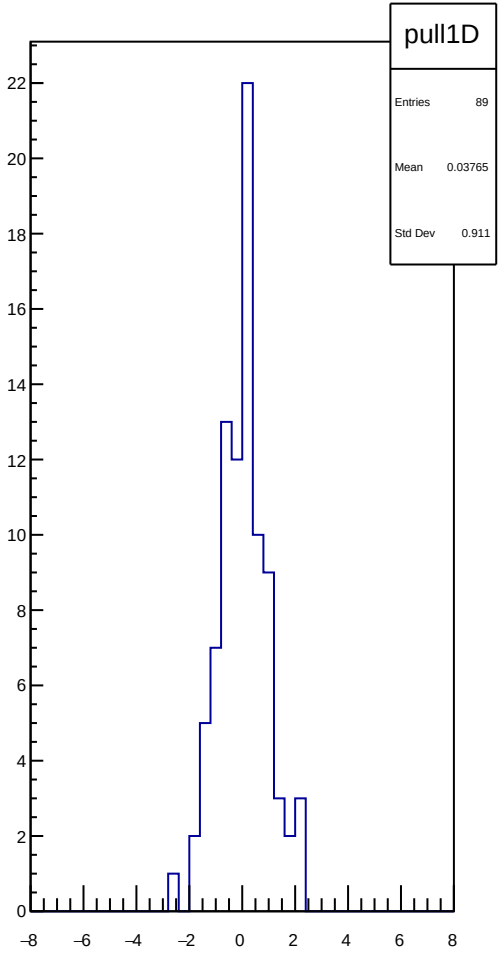

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.854e+05 / 88
p0 5.04e−11 ± 4.346e−14
0.25
0.2
0.15
0.1
0.05

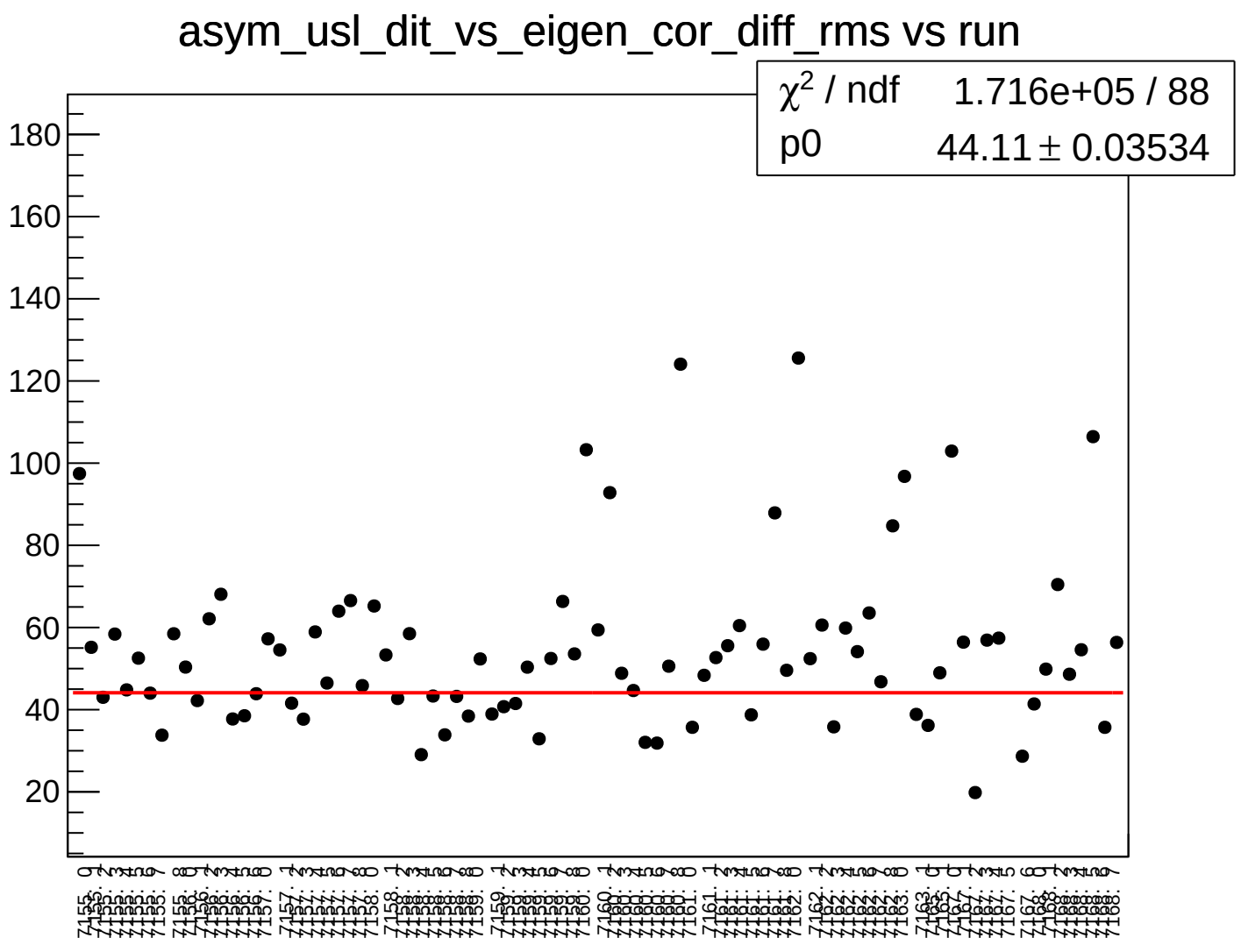

asym_usl_dit_vs_cor_diff_mean vs run
χ^2 / ndf 73.99 / 88
p0 0.08423 ± 0.04997
pull
Entries 89
Mean 72.96
Std Dev 9.392

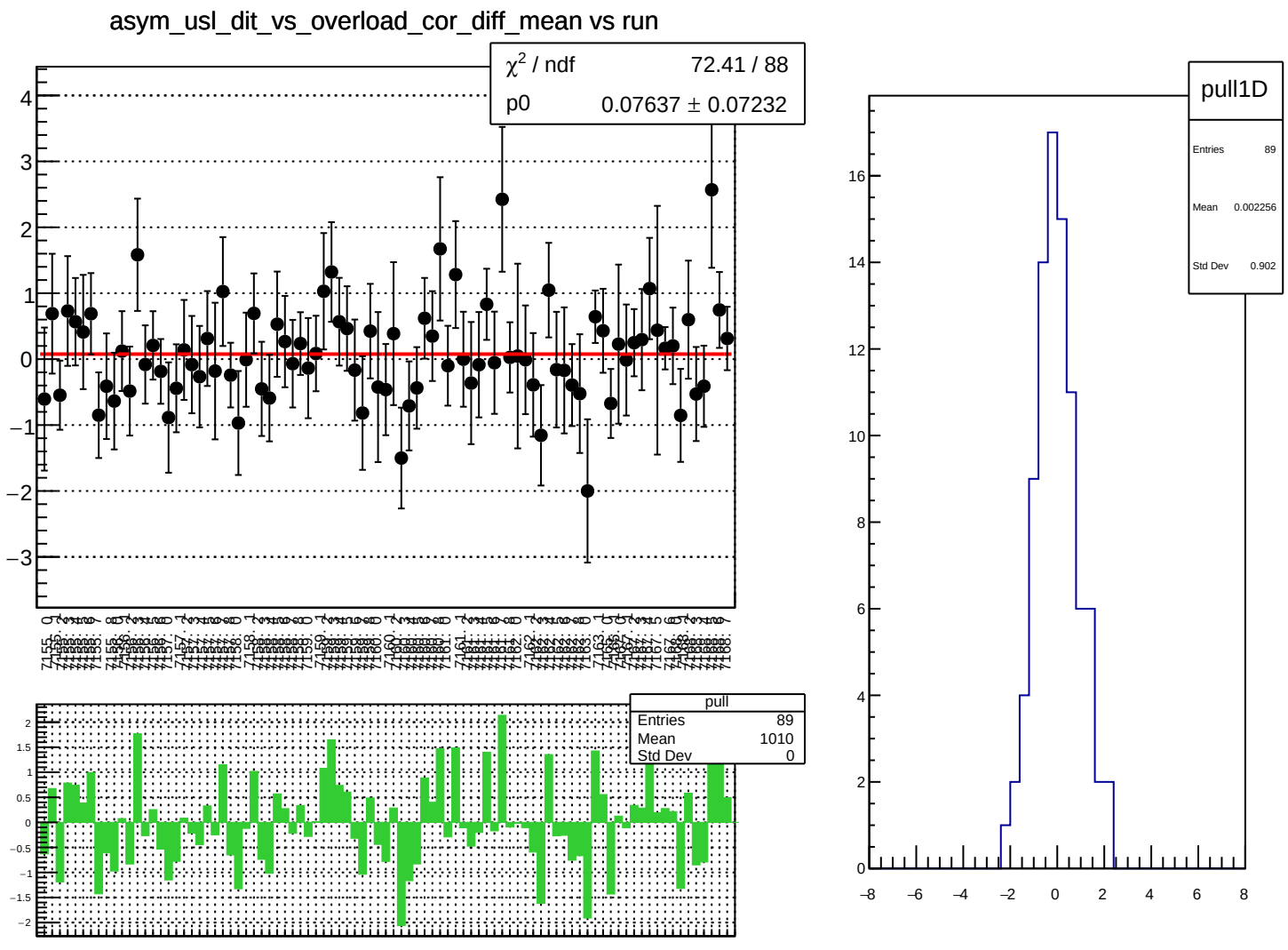

pull1D
Entries 89
Mean 0.03765
Std Dev 0.911

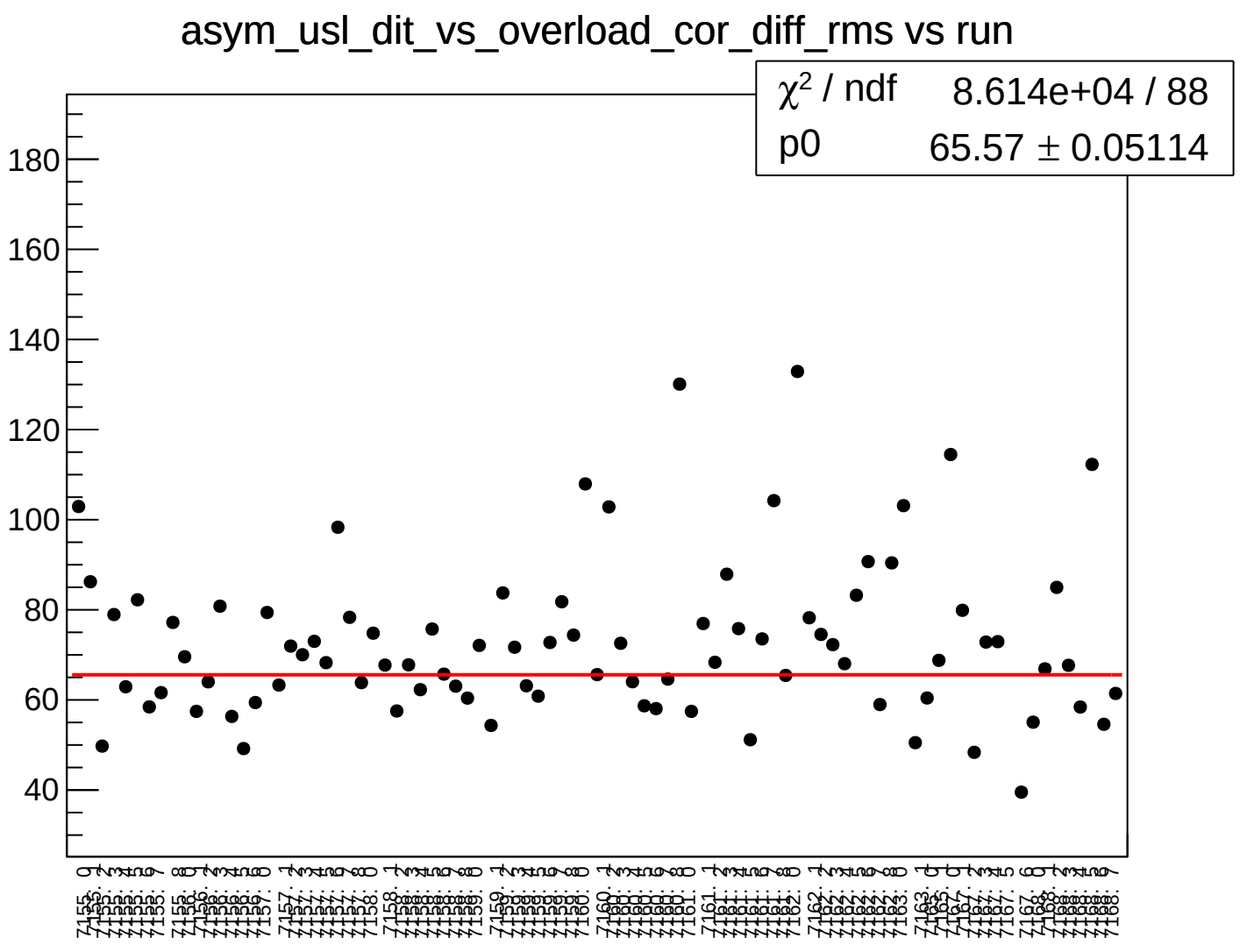

asym_usl_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.716e+05 / 88
p0 44.11 ± 0.03534
180
160
140
120
100
80
60
40
20

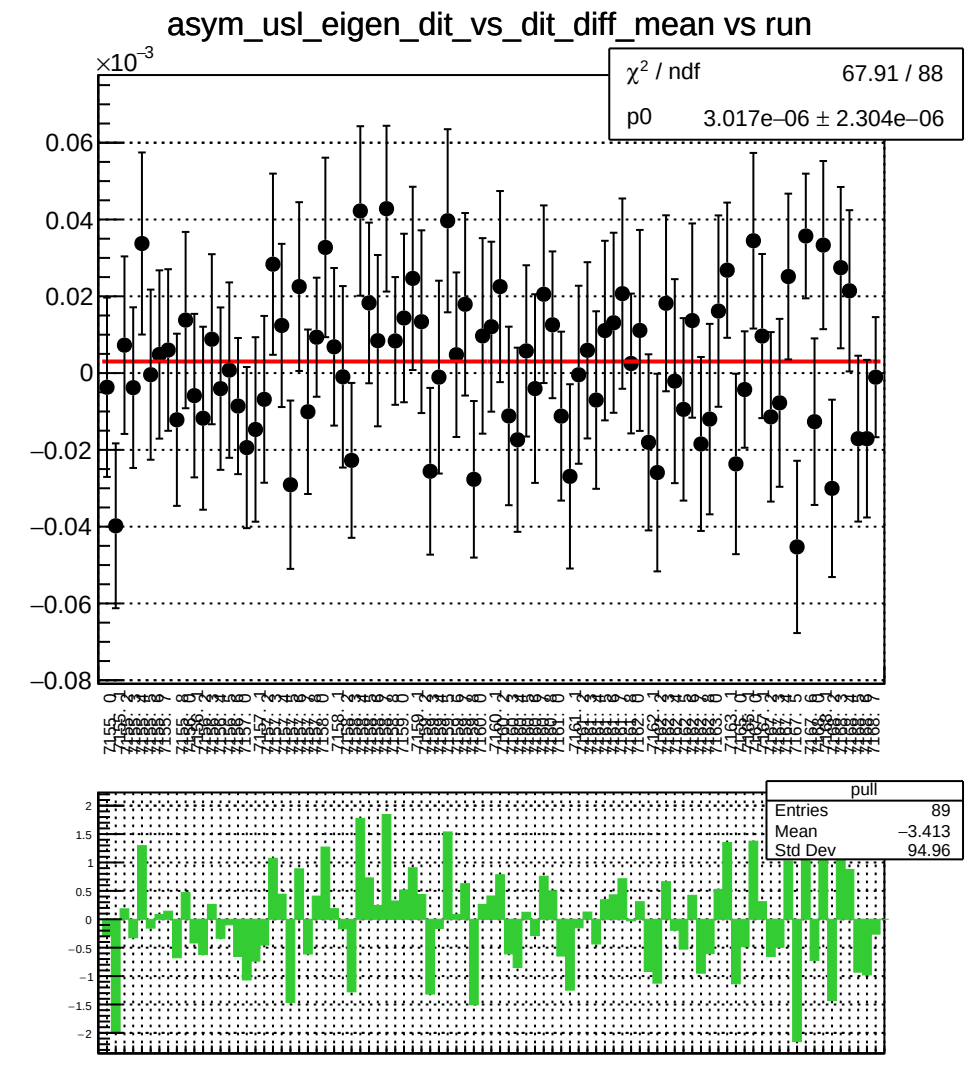

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.99 / 88
p0 0.08423 ± 0.04997
pull
Entries 89
Mean 72.96
Std Dev 9.392

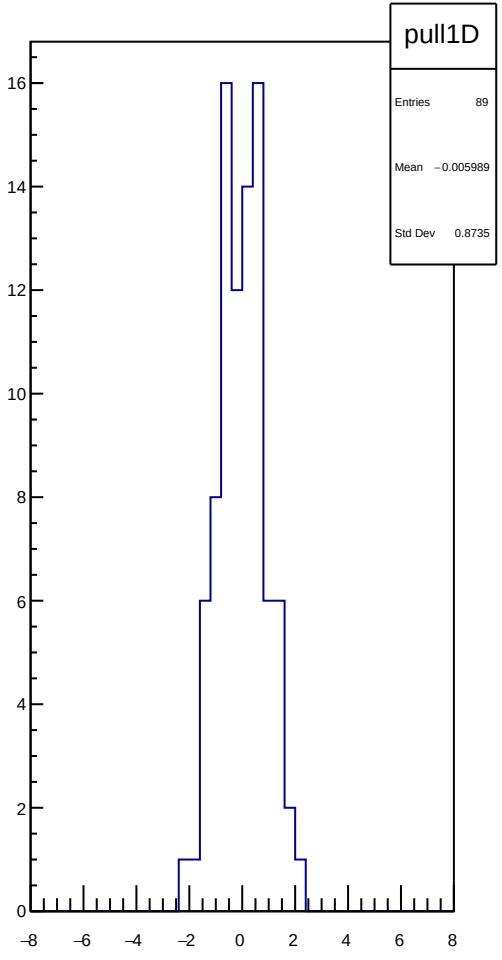

pull1D
Entries 89
Mean 0.03765
Std Dev 0.911

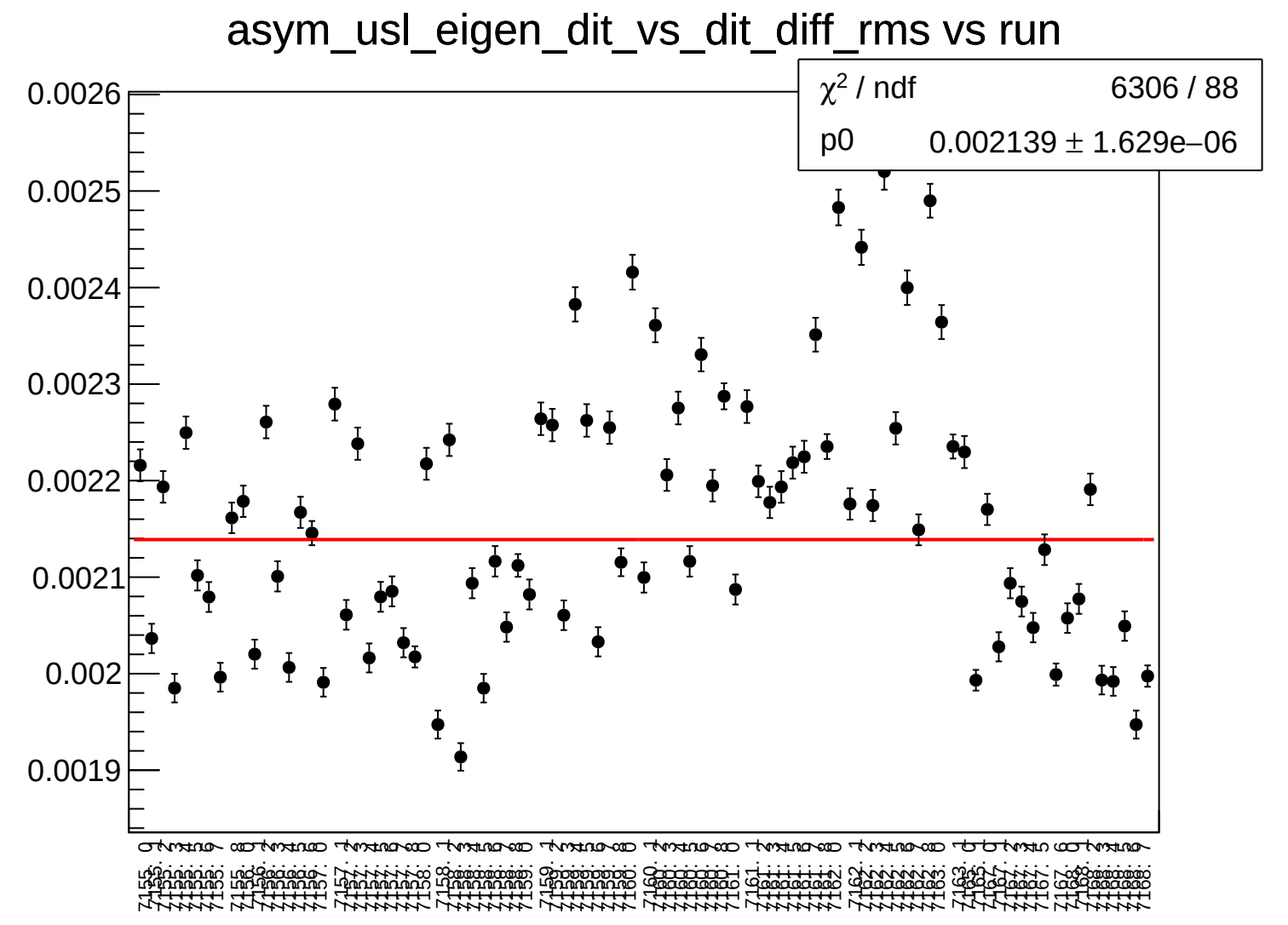

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.716e+05 / 88
p0 44.11 ± 0.03534
180
160
140
120
100
80
60
40
20

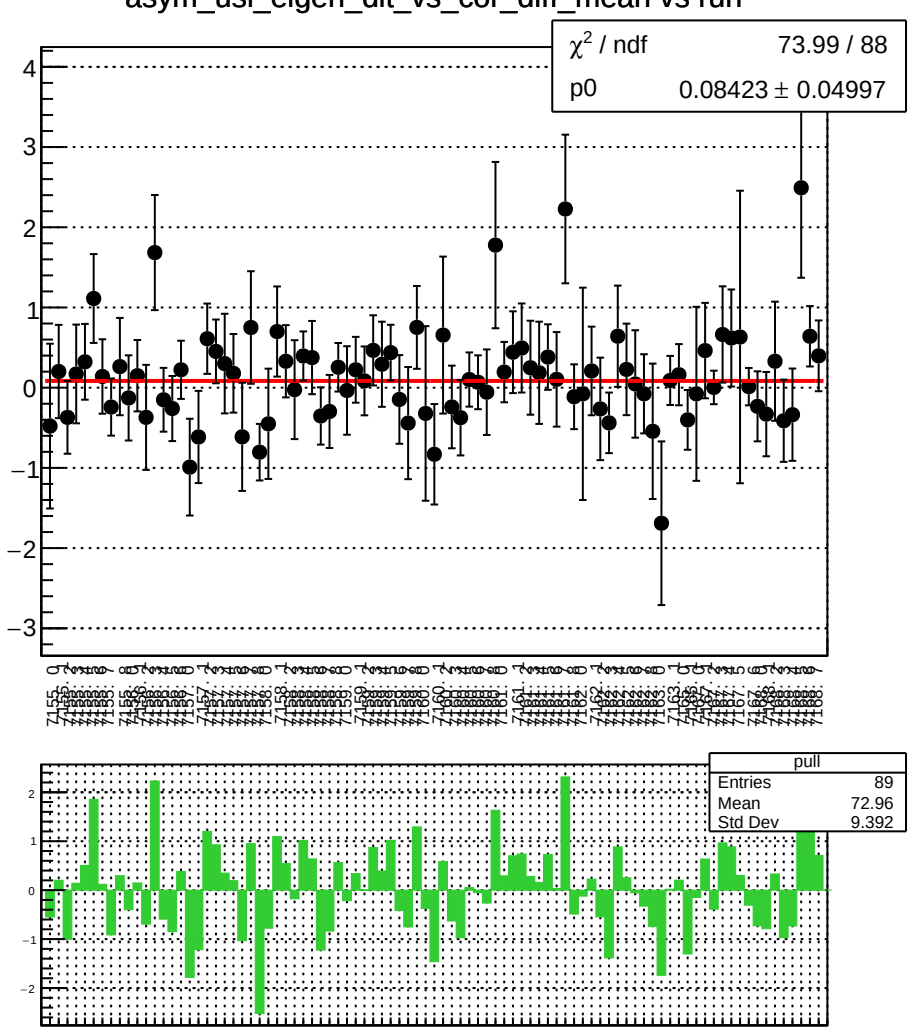

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 72.41 / 88
p0 0.07637 ± 0.07232
pull
Entries 89
Mean 1010
Std Dev 0
pull1D
Entries 89
Mean 0.002256
Std Dev 0.902

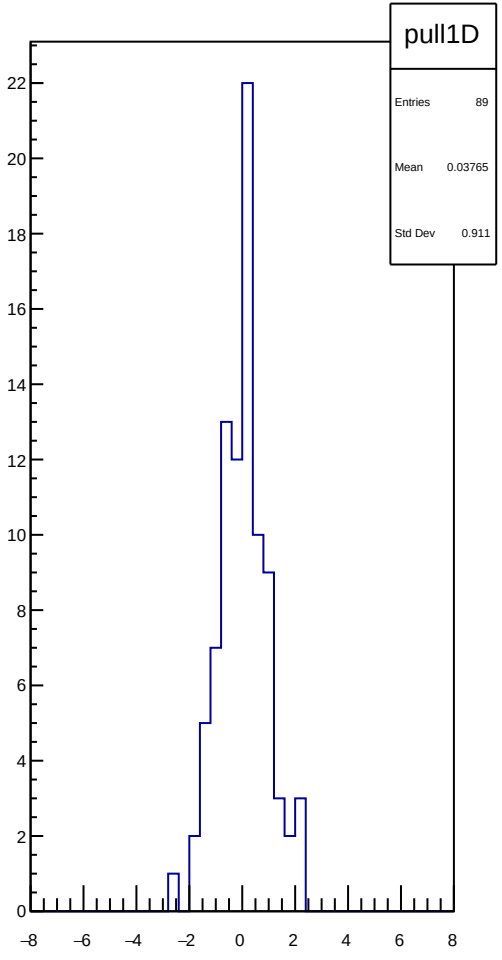

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.614e+04 / 88
p0 65.57 ± 0.05114
180
160
140
120
100
80
60
40

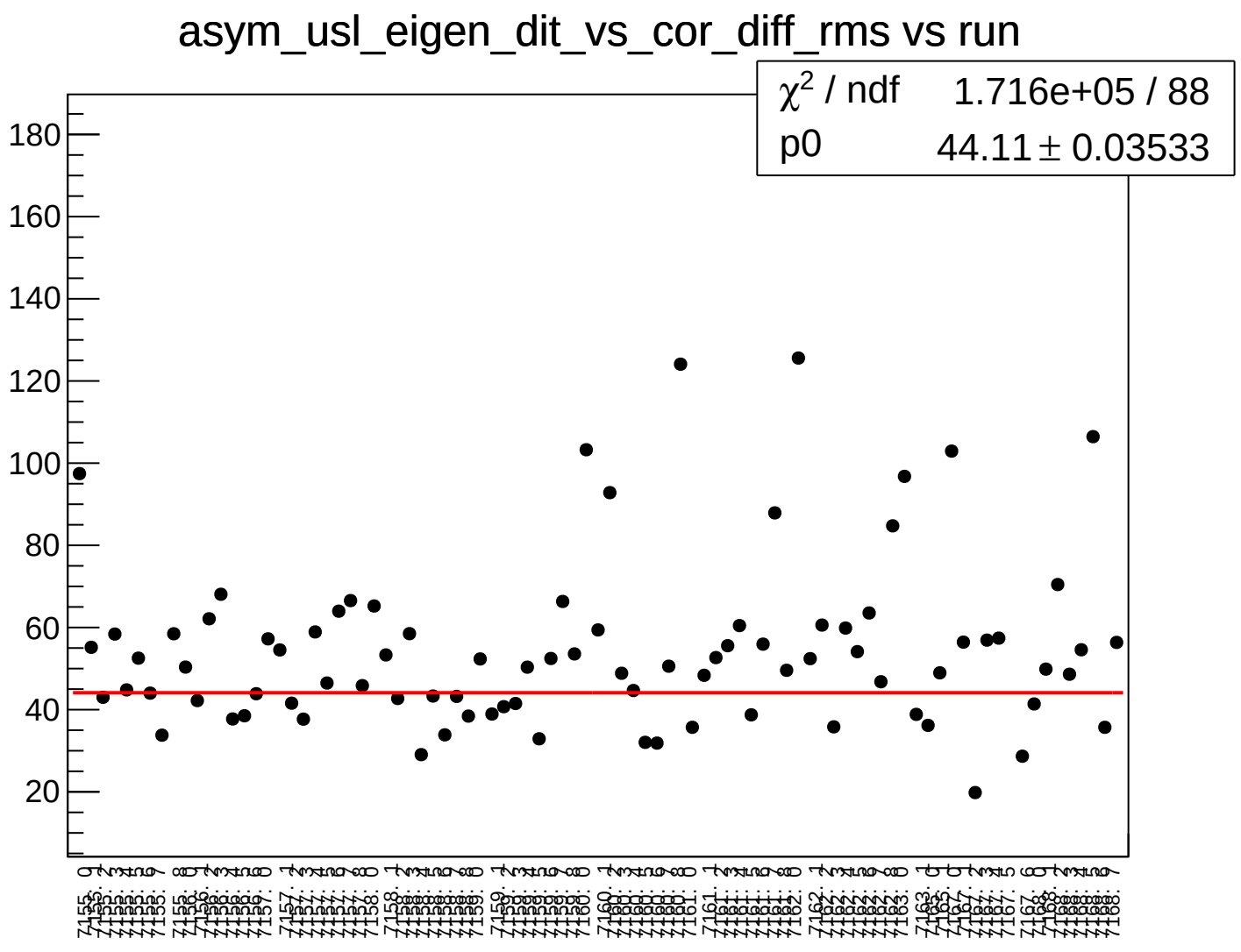

asym_usl_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 67.91 / 88
p0 3.017e−06 ± 2.304e−06
pull
Entries 89
Mean −3.413
Std Dev 94.96

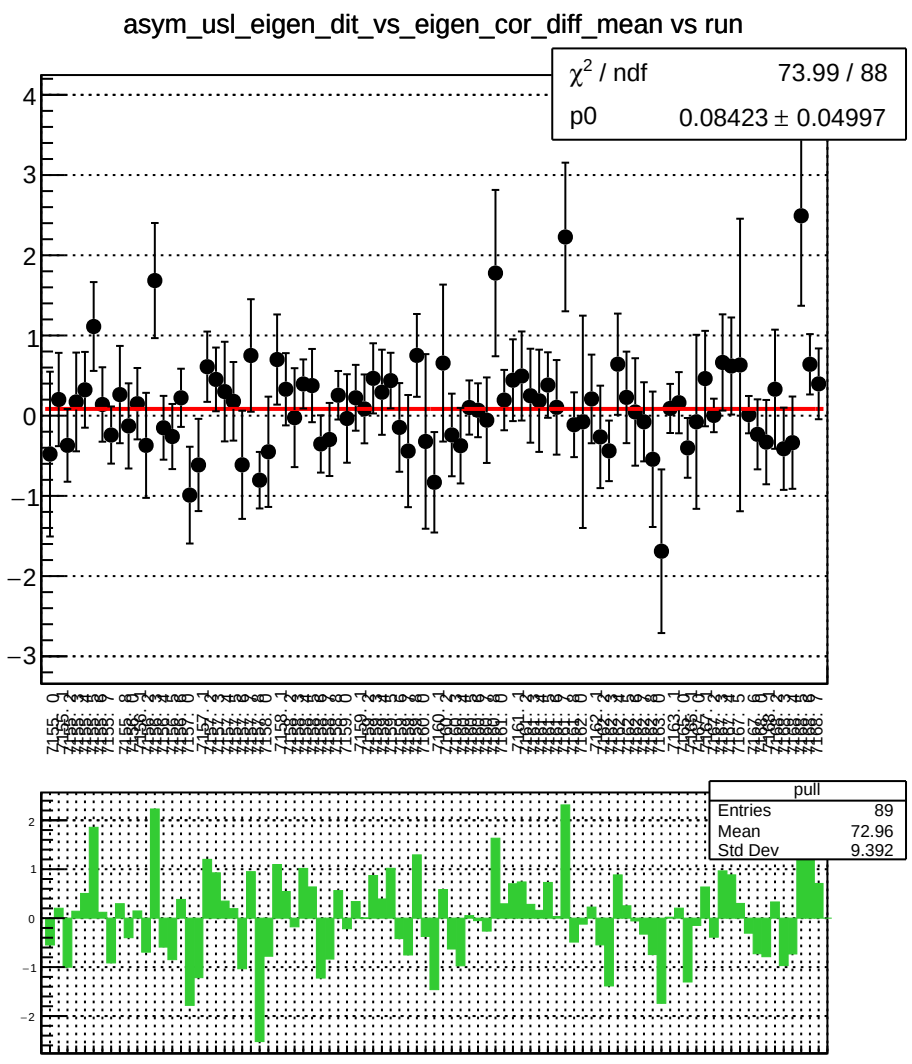

pull1D
Entries 89
Mean −0.005989
Std Dev 0.8735

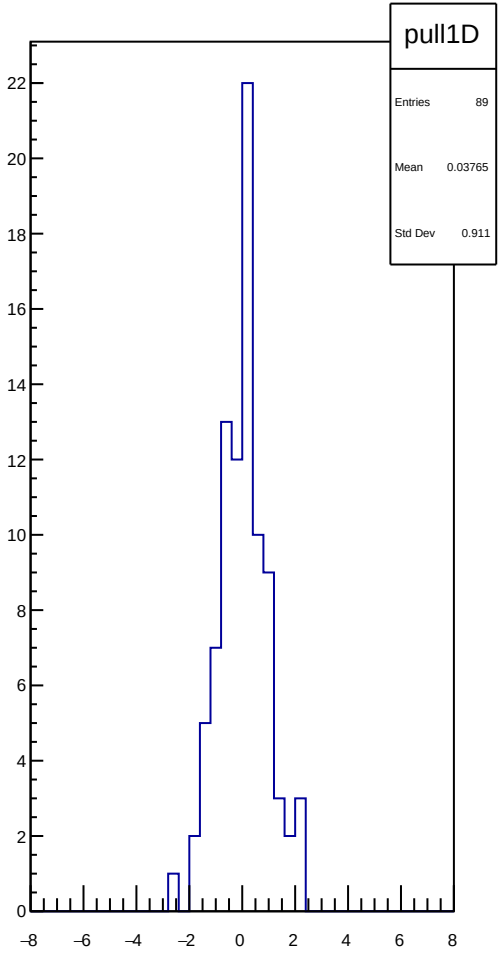

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6306 / 88
p0 0.002139 ± 1.629e−06
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

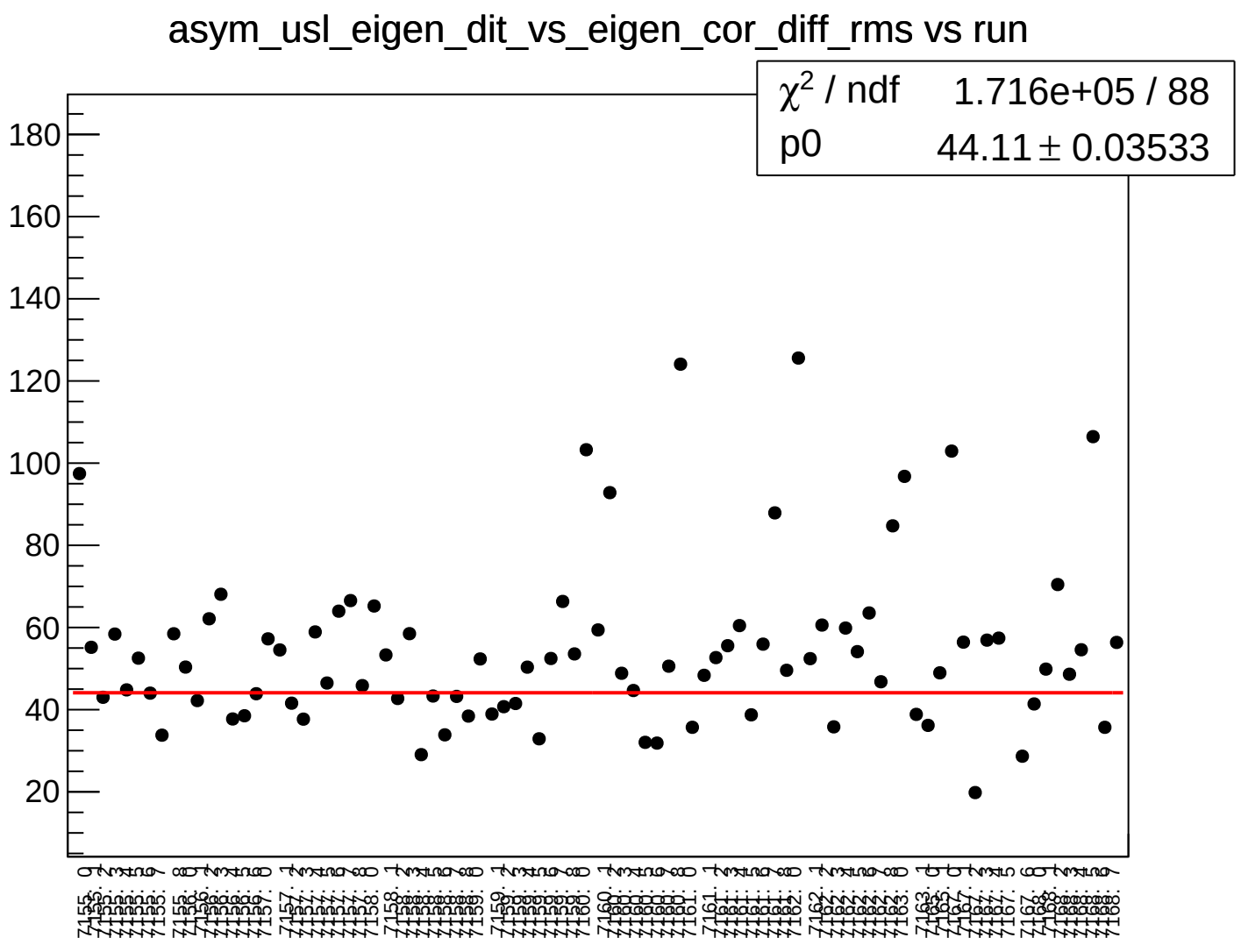

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.99 / 88
p0 0.08423 ± 0.04997
pull
Entries 89
Mean 72.96
Std Dev 9.392

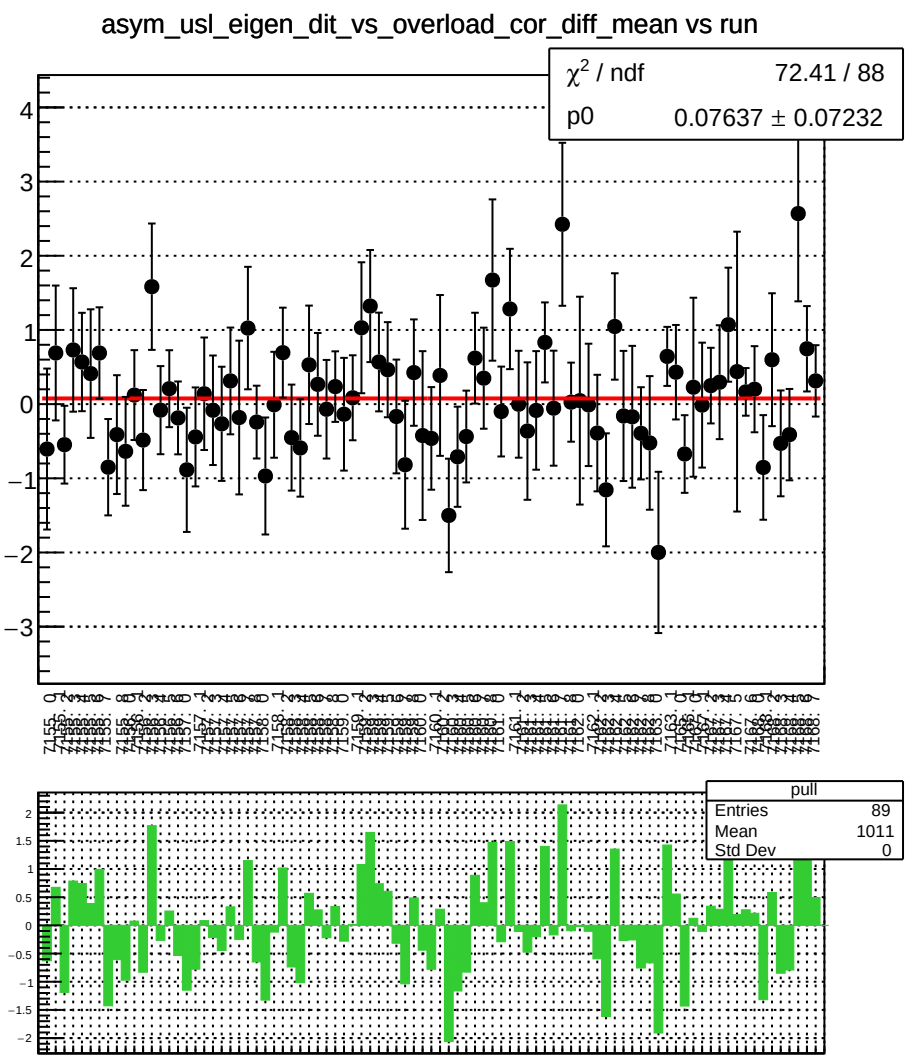

pull1D
Entries 89
Mean 0.03765
Std Dev 0.911

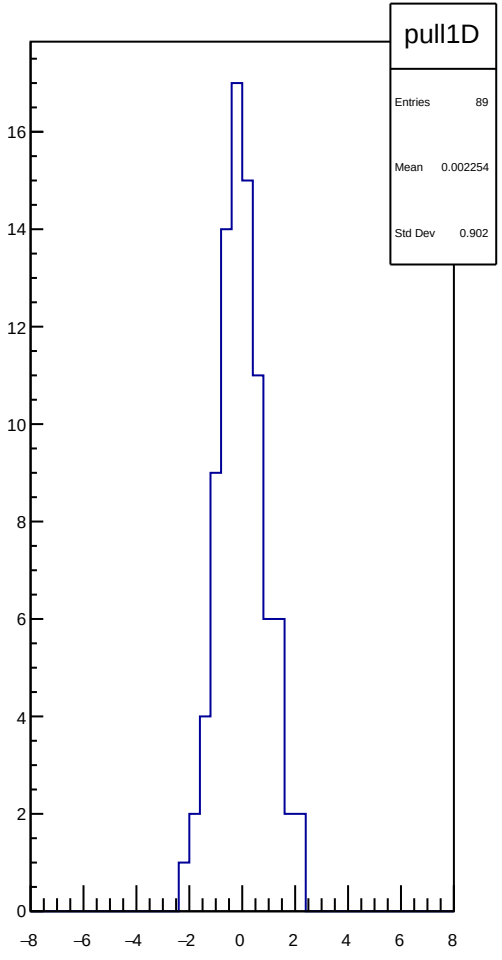

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.716e+05 / 88
p0 44.11 ± 0.03533
180
160
140
120
100
80
60
40
20

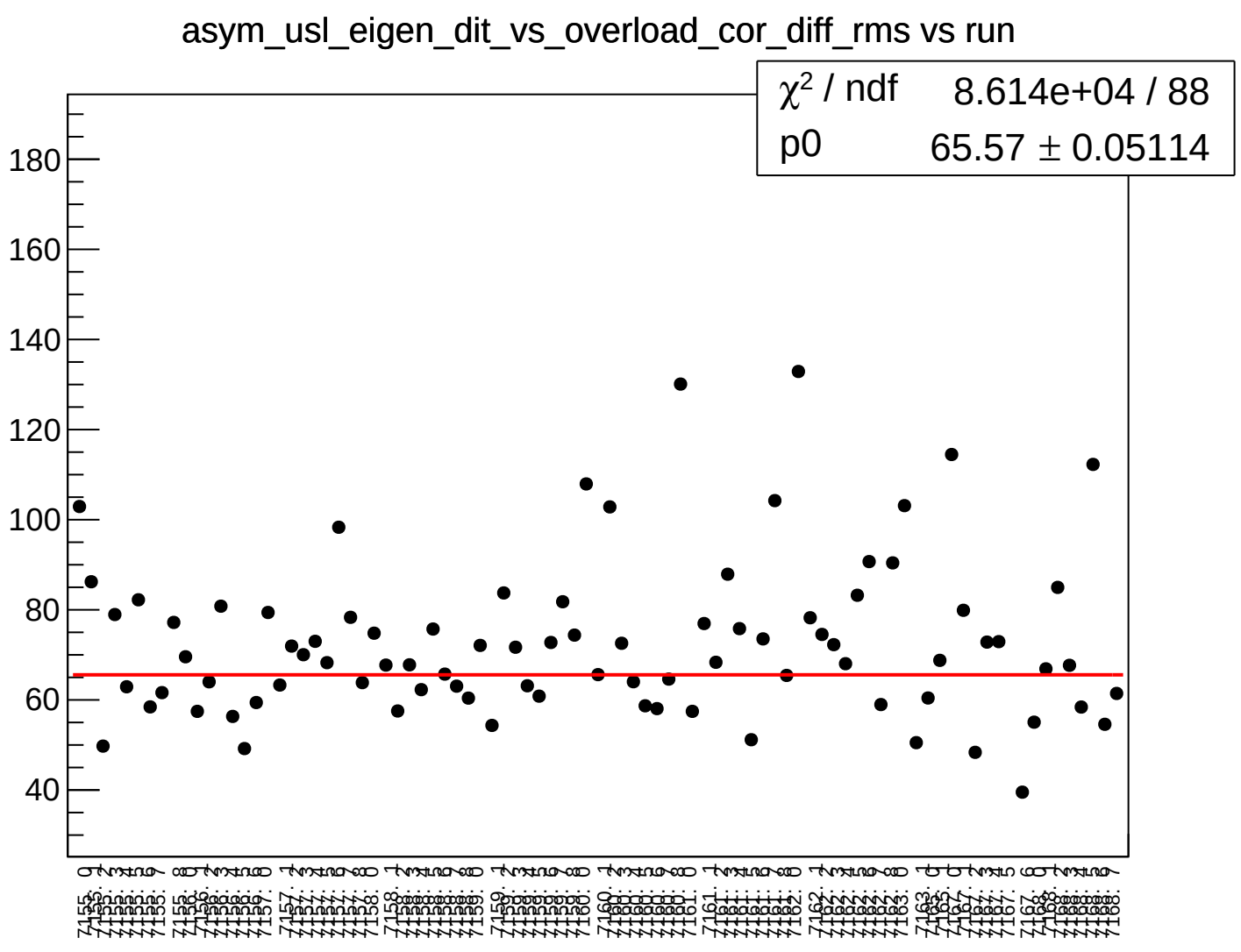

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.99 / 88
p0 0.08423 ± 0.04997
pull
Entries 89
Mean 72.96
Std Dev 9.392

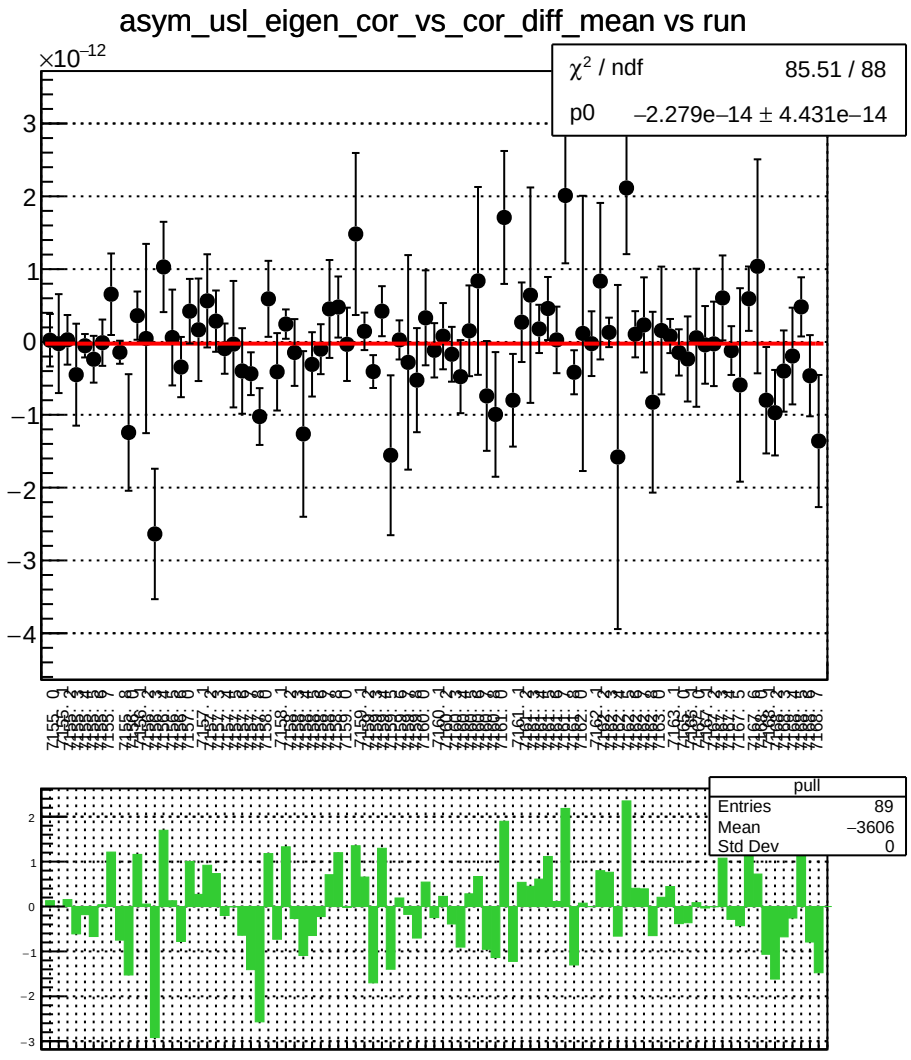

pull1D
Entries 89
Mean 0.03765
Std Dev 0.911

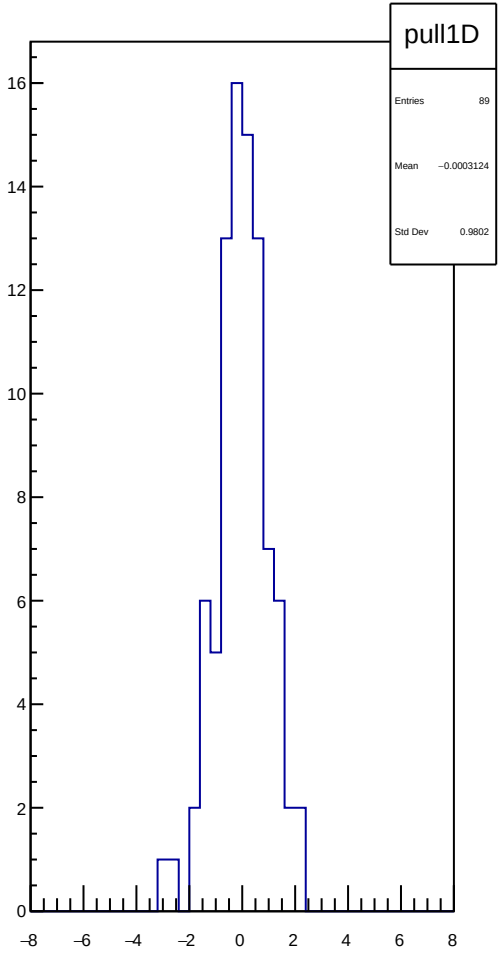

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.716e+05 / 88
p0 44.11 ± 0.03533
180
160
140
120
100
80
60
40
20

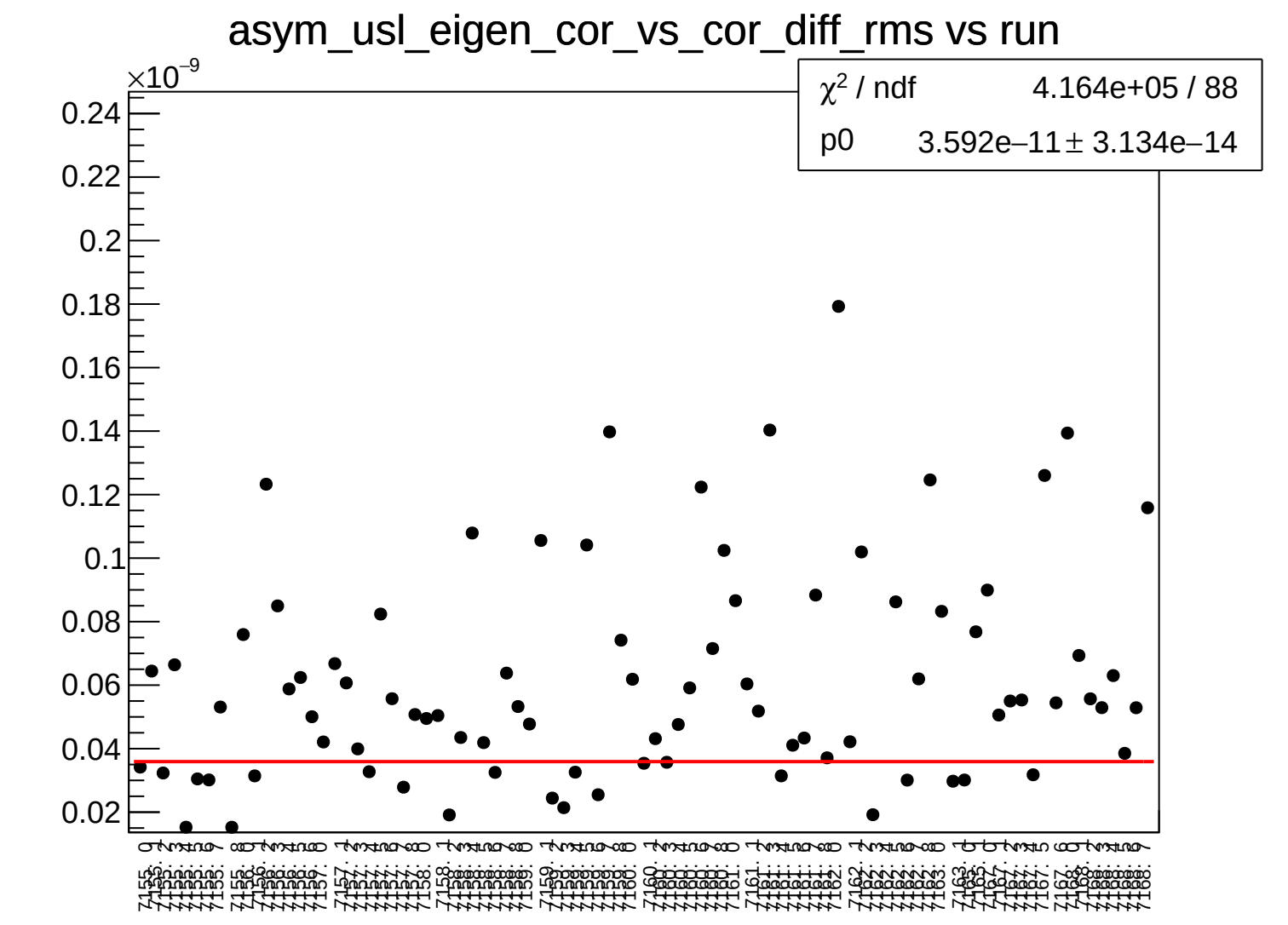

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 72.41 / 88
p0 0.07637 ± 0.07232
pull
Entries 89
Mean 1011
Std Dev 0

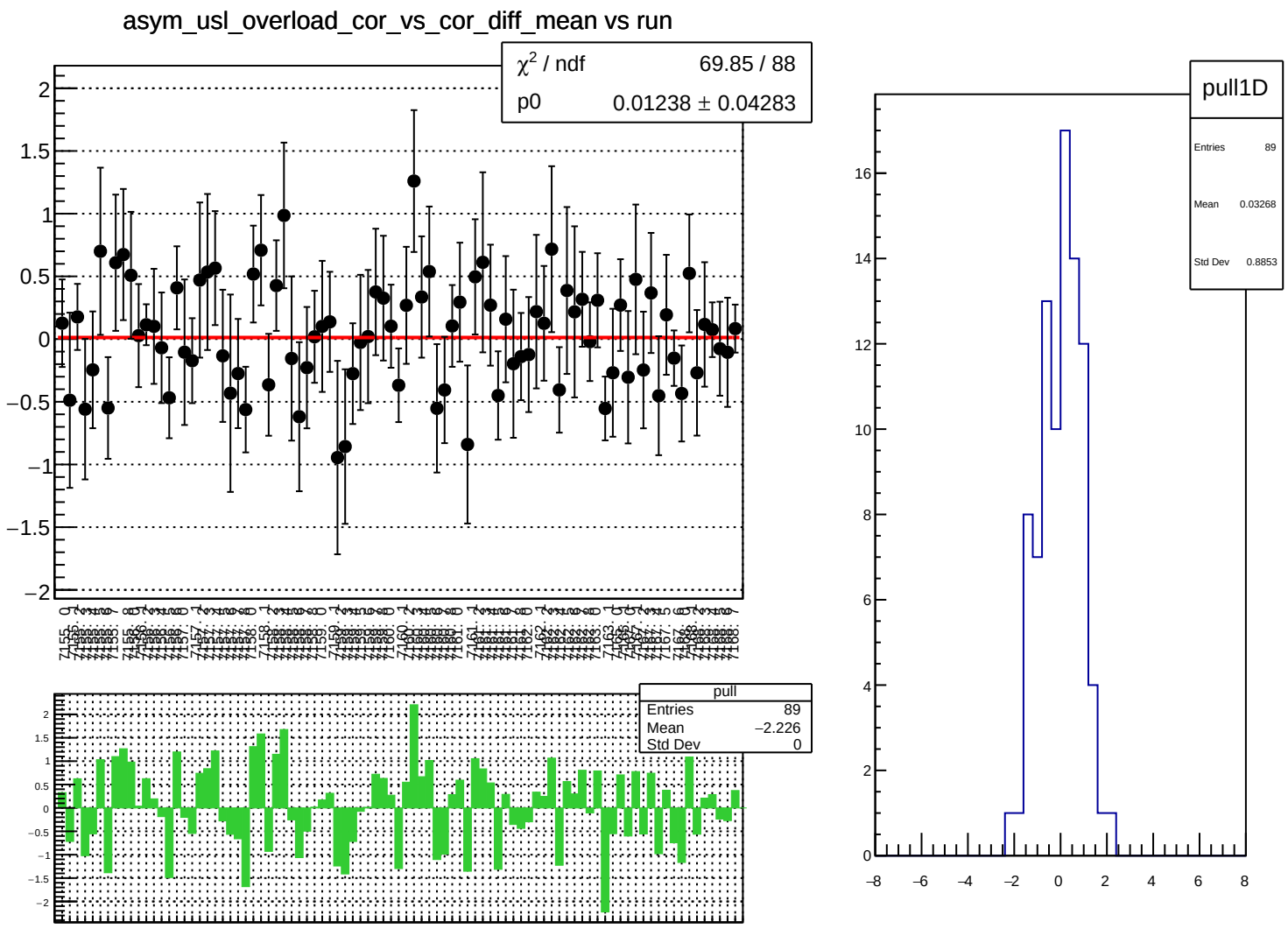

pull1D
Entries 89
Mean 0.002254
Std Dev 0.902

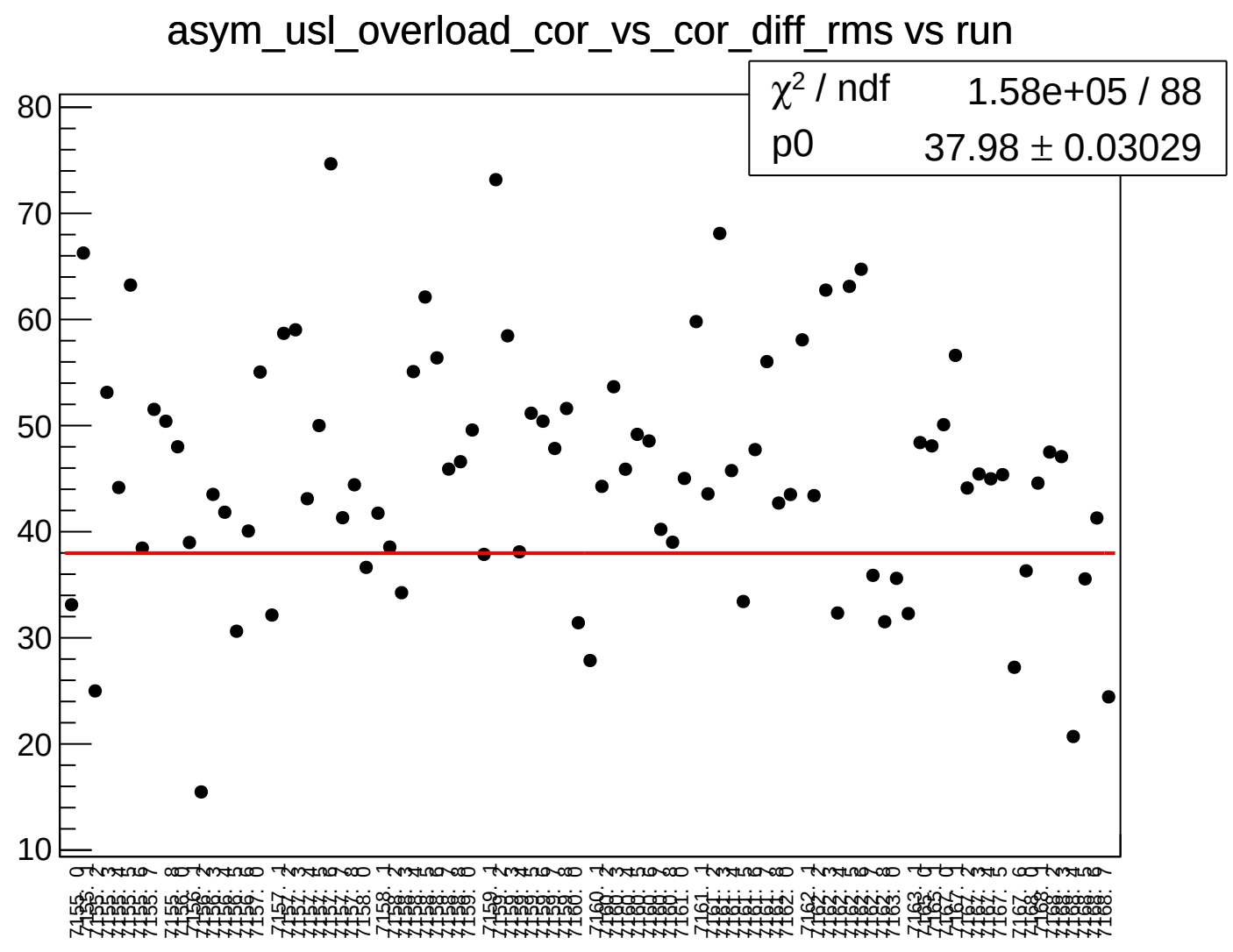

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 8.614e+04 / 88
p0 65.57 ± 0.05114
180
160
140
120
100
80
60
40

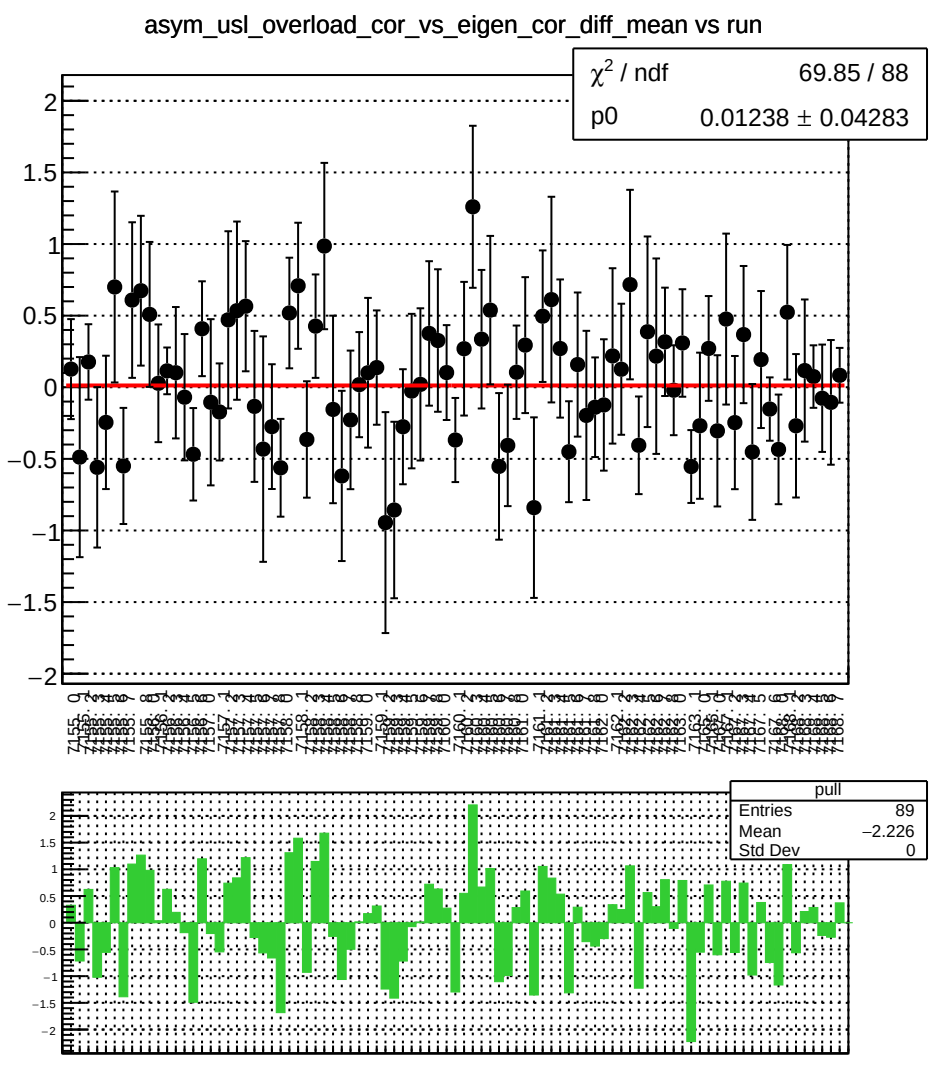

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 85.51 / 88
p0 −2.279e−14 ± 4.431e−14
pull
Entries 89
Mean −3606
Std Dev 0

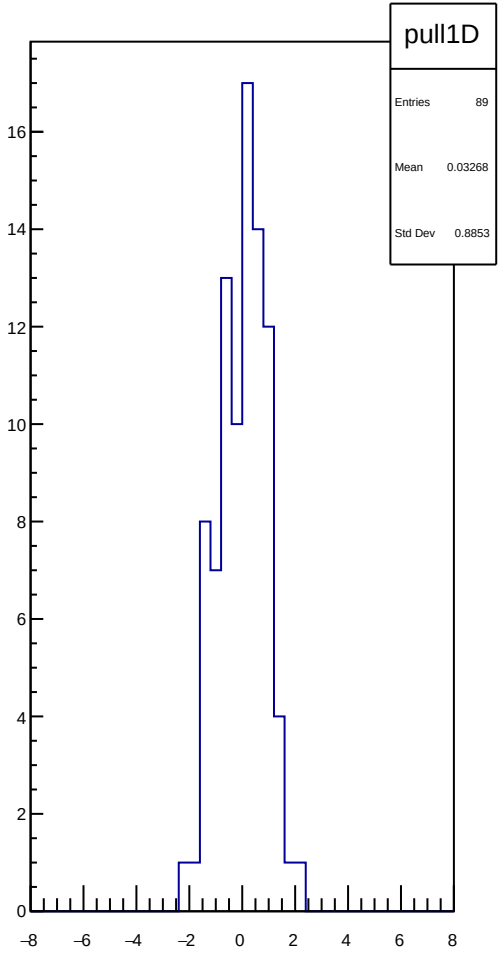

pull1D
Entries 89
Mean −0.0003124
Std Dev 0.9802

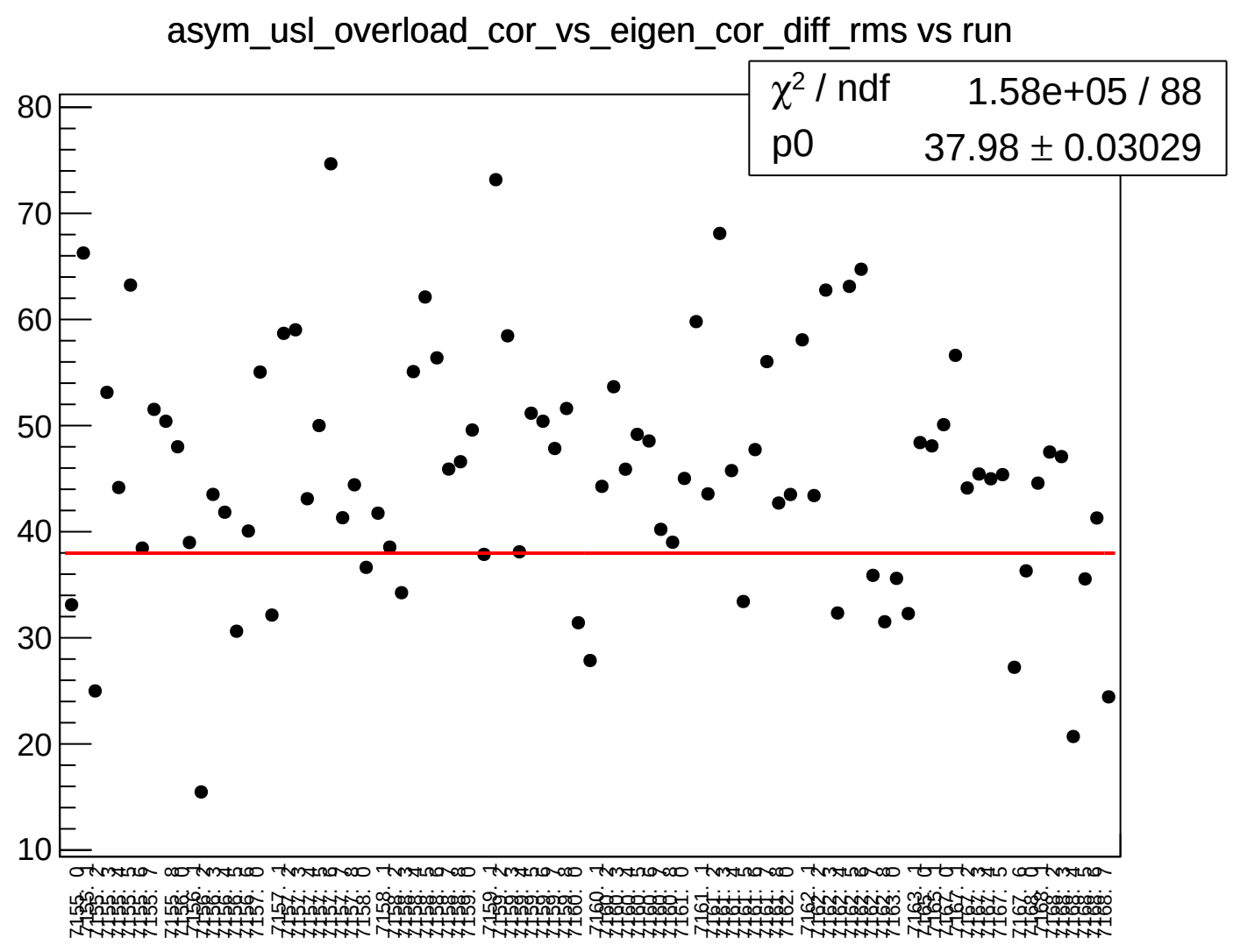

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.164e+05 / 88
p0 3.592e−11 ± 3.134e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

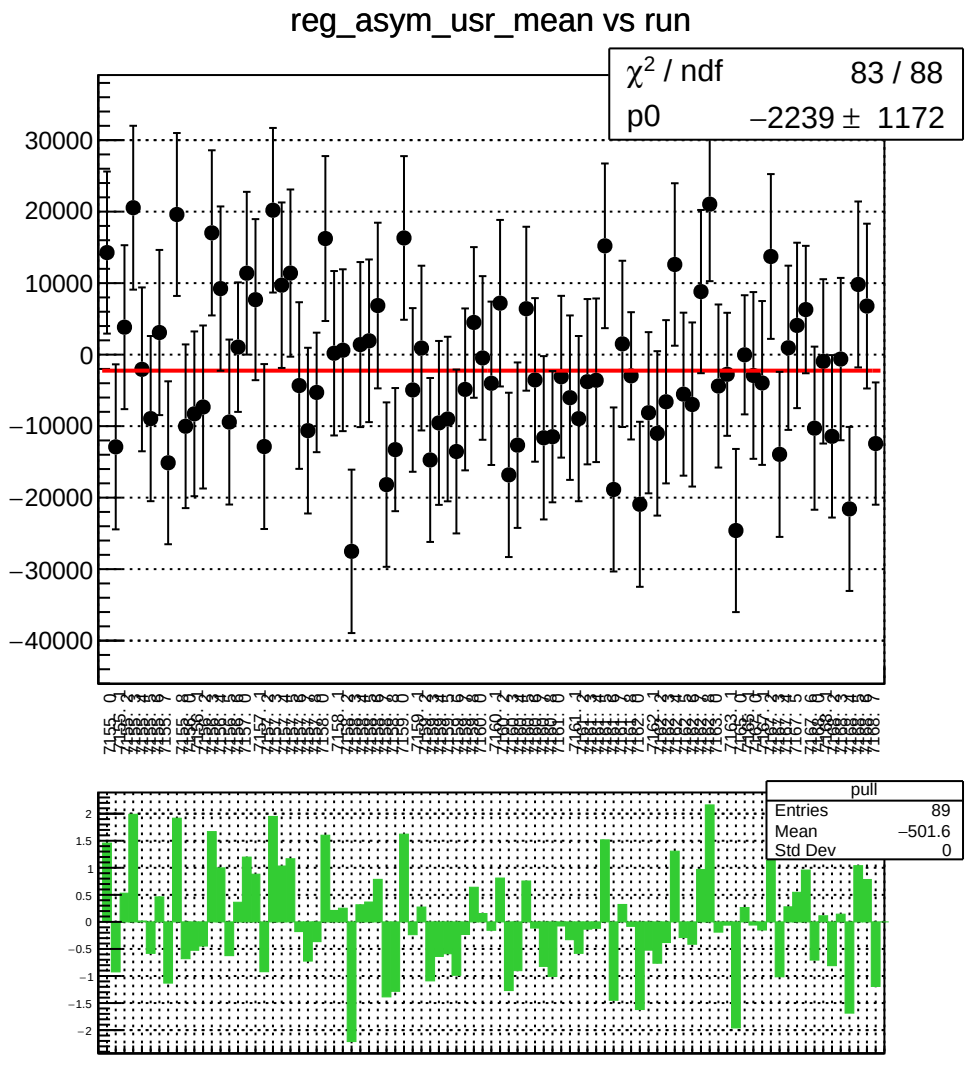

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 69.85 / 88
p0 0.01238 ± 0.04283
pull
Entries 89
Mean −2.226
Std Dev 0
pull1D
Entries 89
Mean 0.03268
Std Dev 0.8853

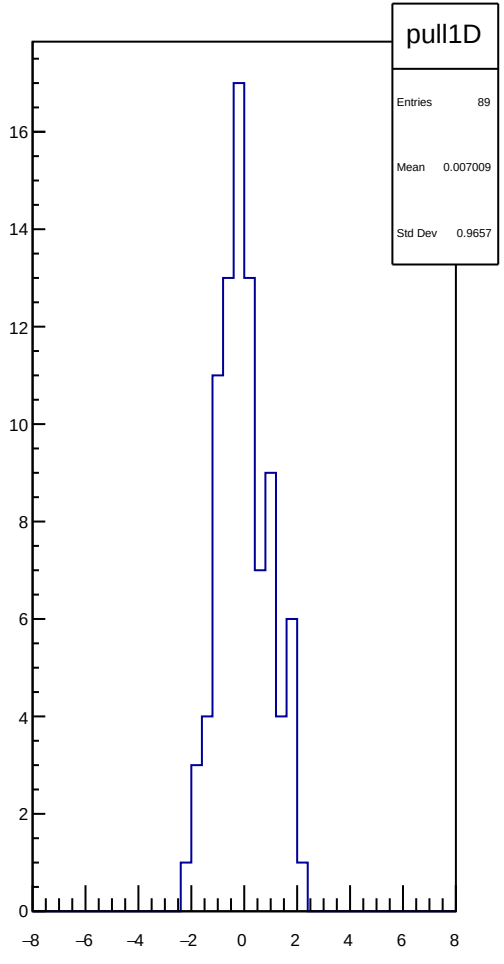

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 88
p0 37.98 ± 0.03029
80
70
60
50
40
30
20
10

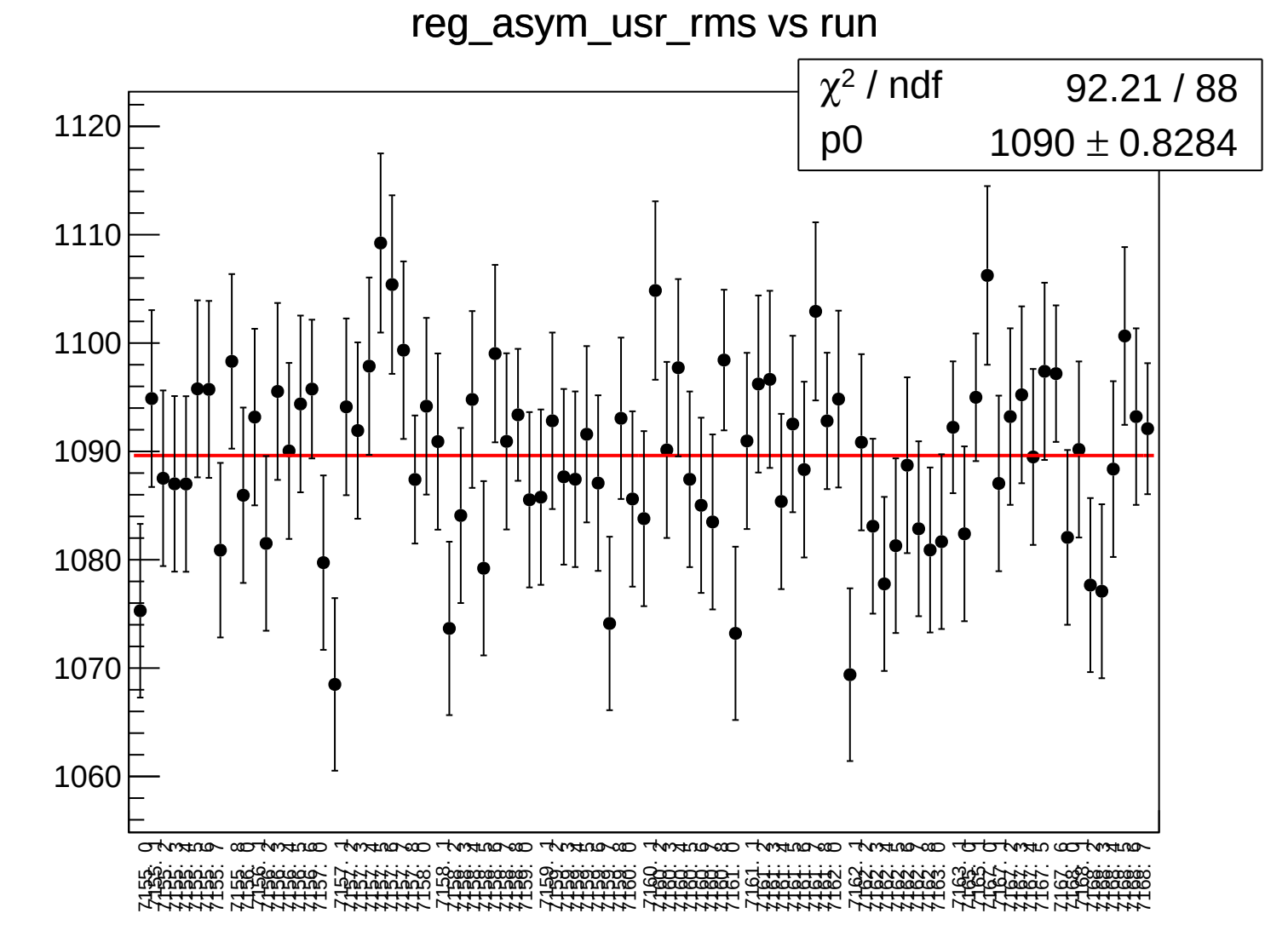

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.85 / 88
p0 0.01238 ± 0.04283
pull
Entries 89
Mean −2.226
Std Dev 0

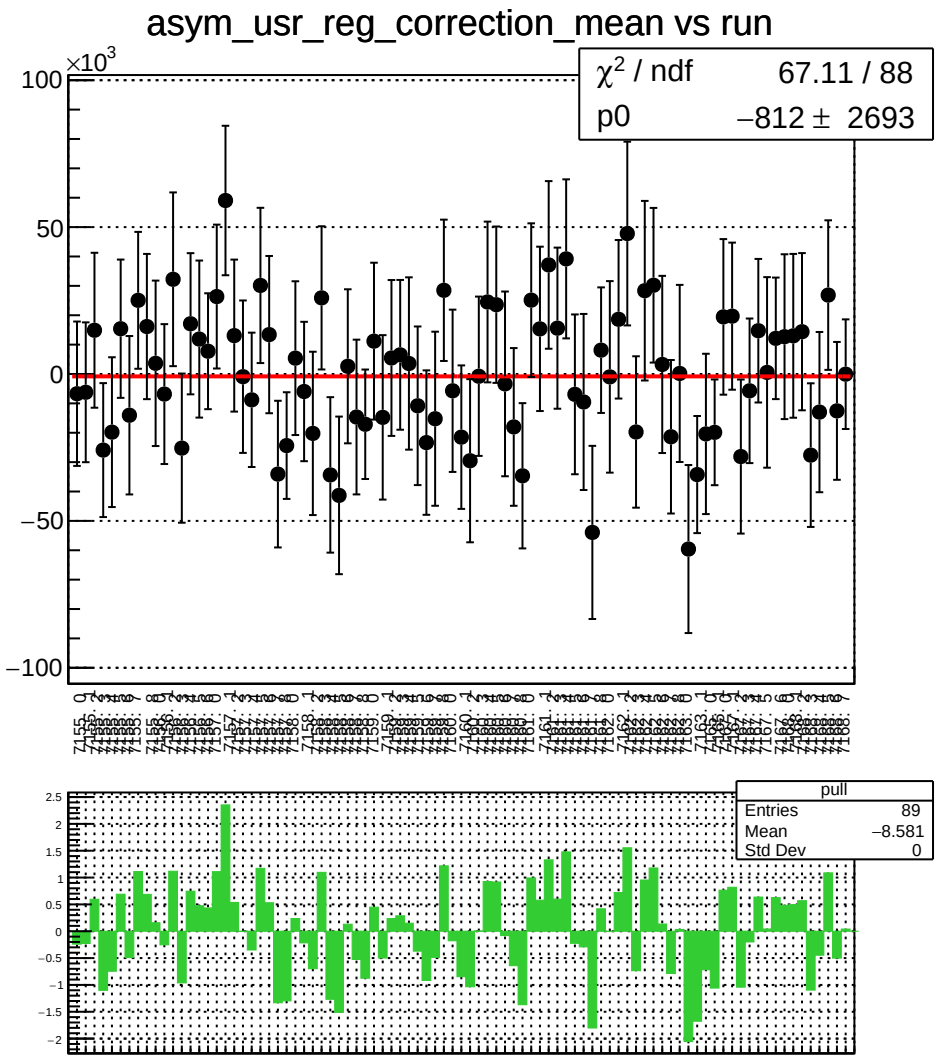

pull1D
Entries 89
Mean 0.03268
Std Dev 0.8853

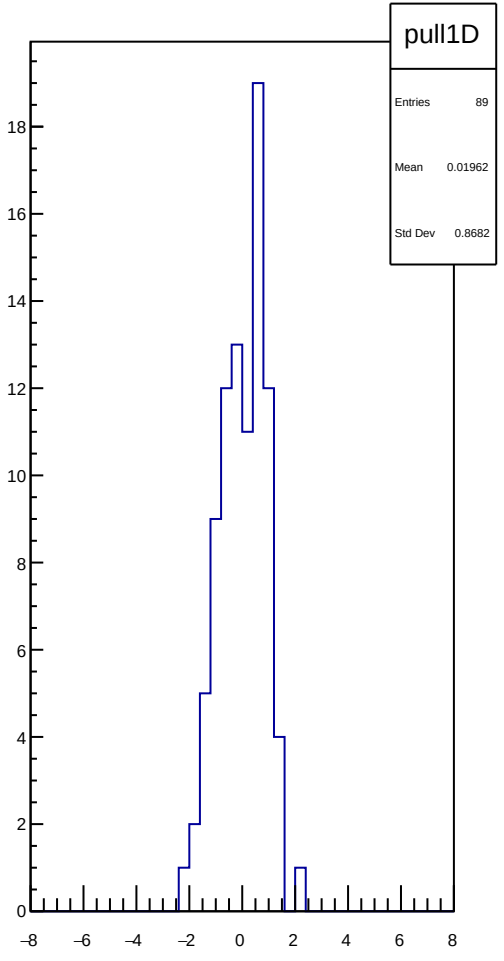

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.58e+05 / 88
p0 37.98 ± 0.03029
80
70
60
50
40
30
20
10

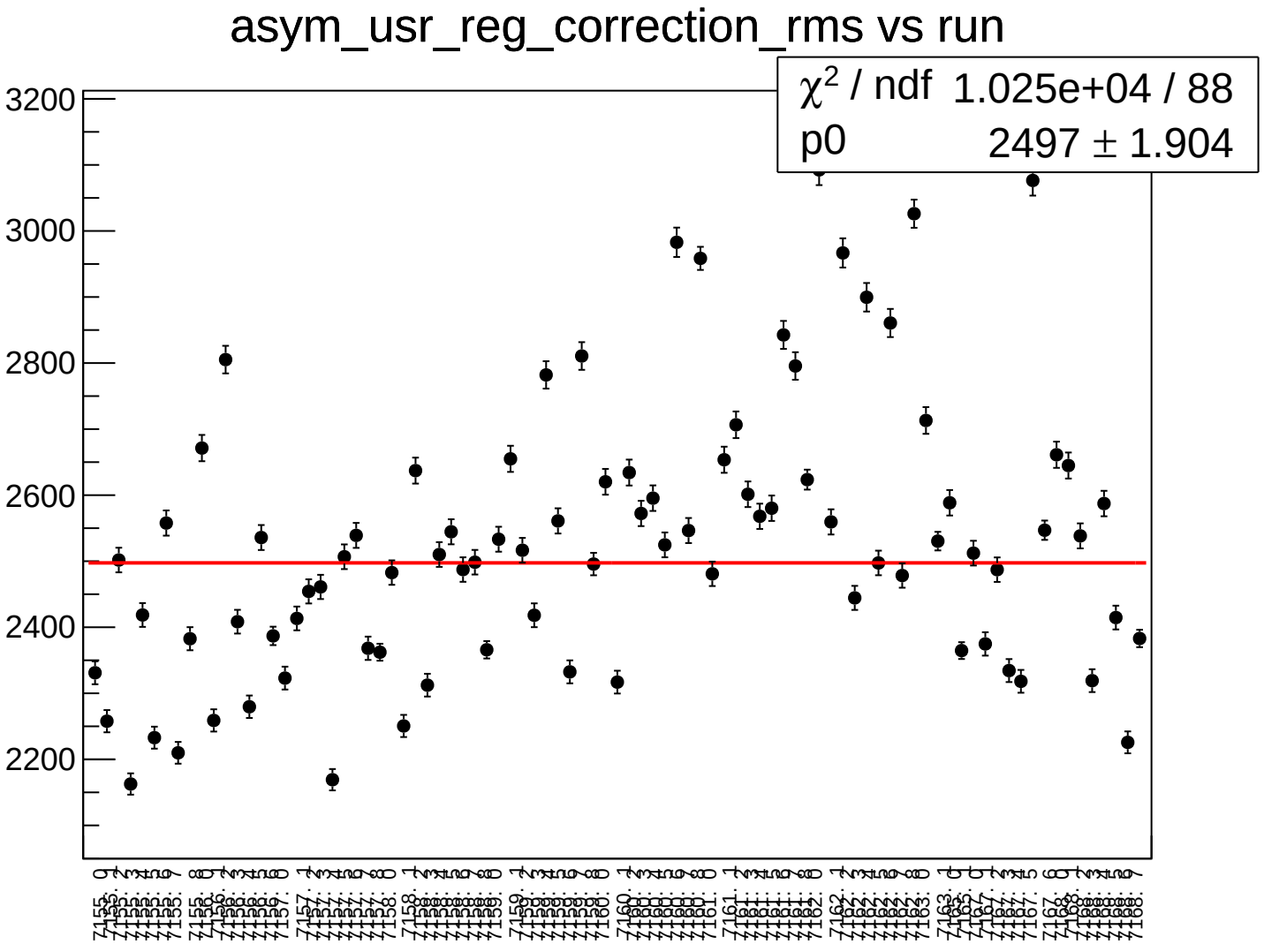

reg_asym_usr_mean vs run
χ² / ndf 83 / 88
p0 −2239 ± 1172
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −501.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

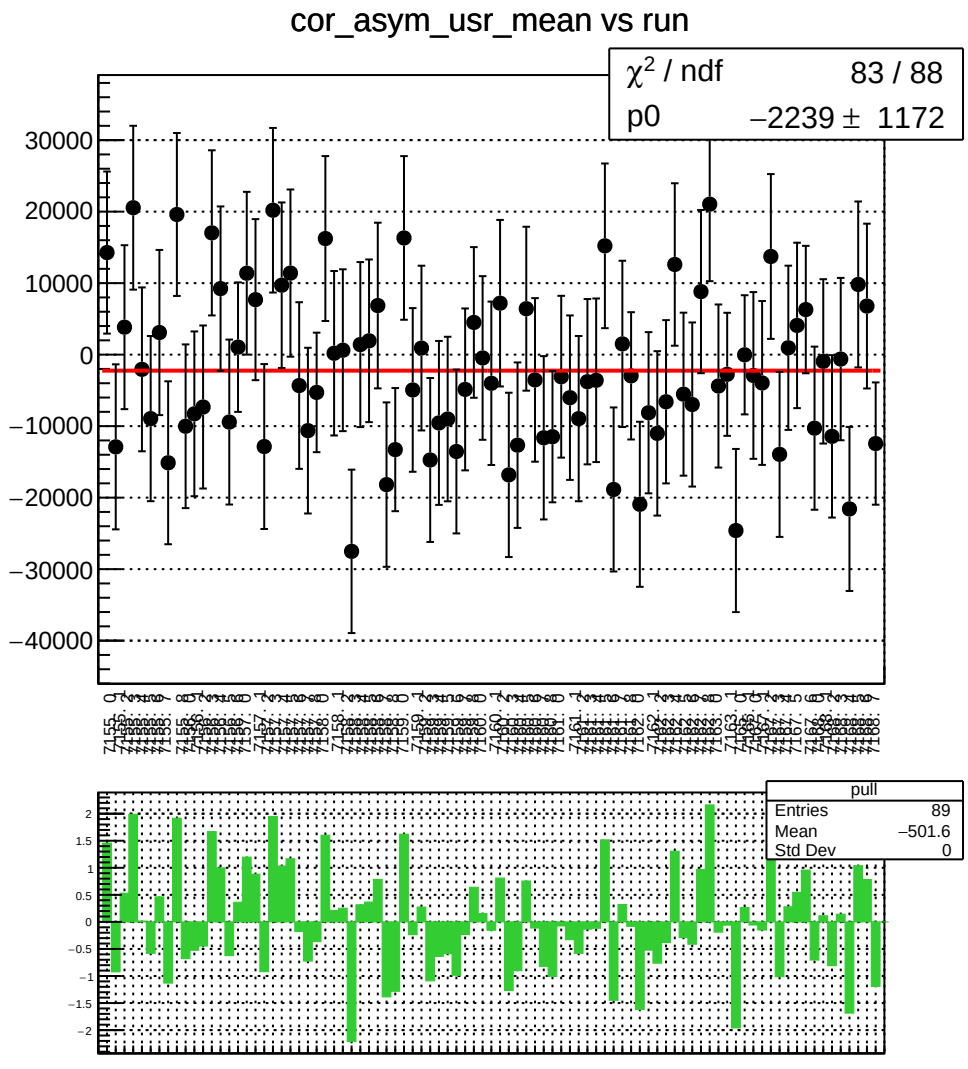

pull1D
Entries 89
Mean 0.007009
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

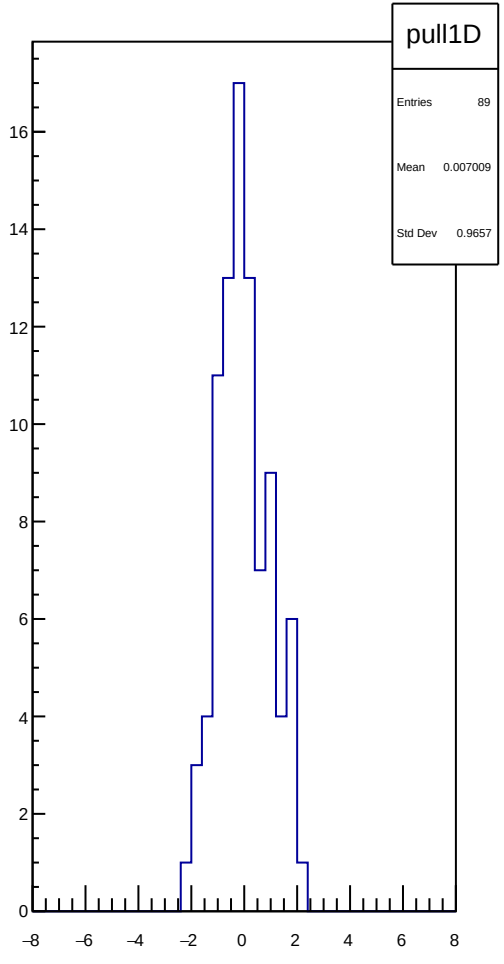

reg_asym_usr_rms vs run
χ² / ndf 92.21 / 88
p0 1090 ± 0.8284
1120
1110
1100
1090
1080
1070
1060

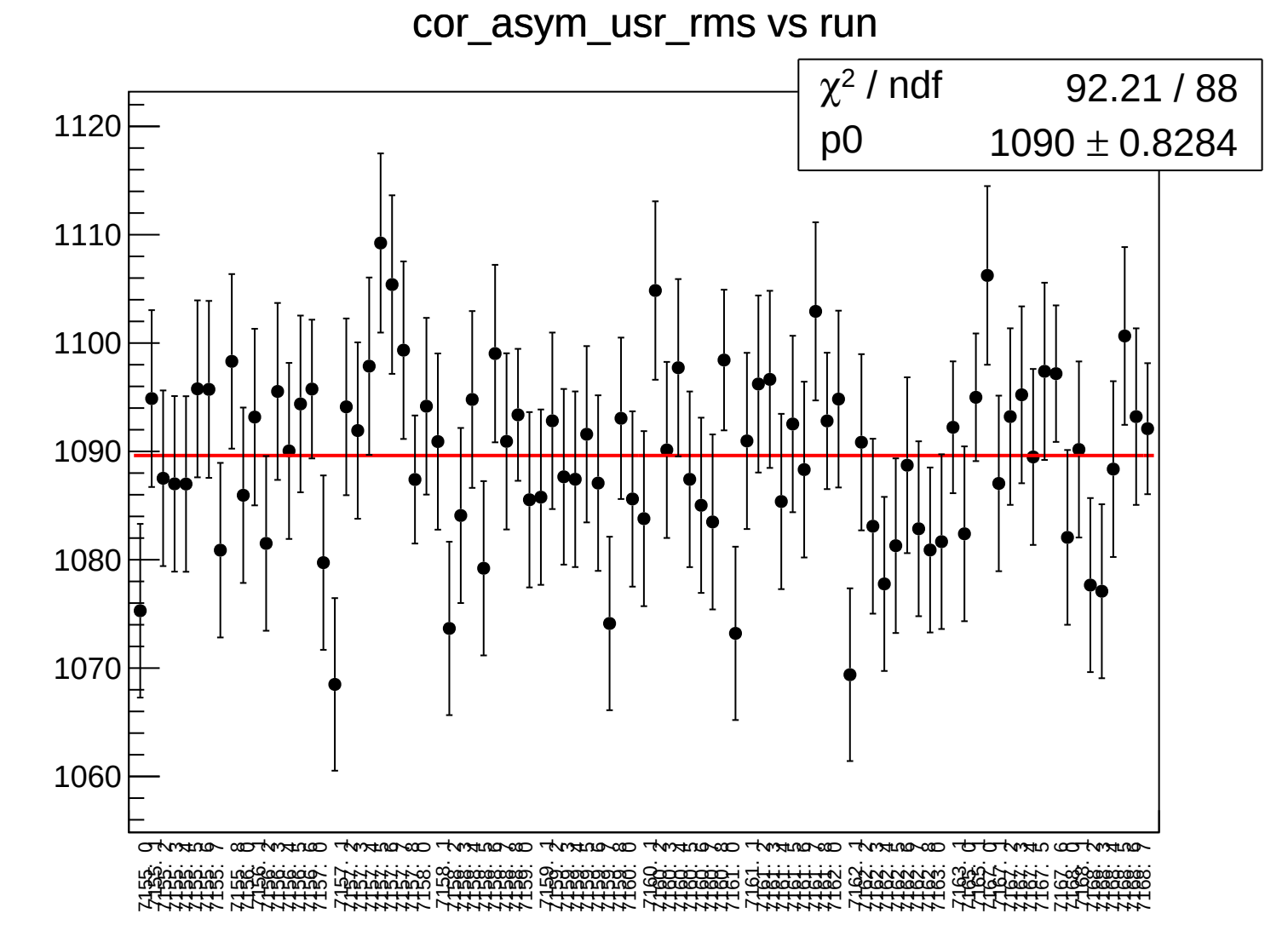

asym_usr_reg_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 −812 ± 2693
100
50
0
−50
−100
pull
Entries 89
Mean −8.581
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

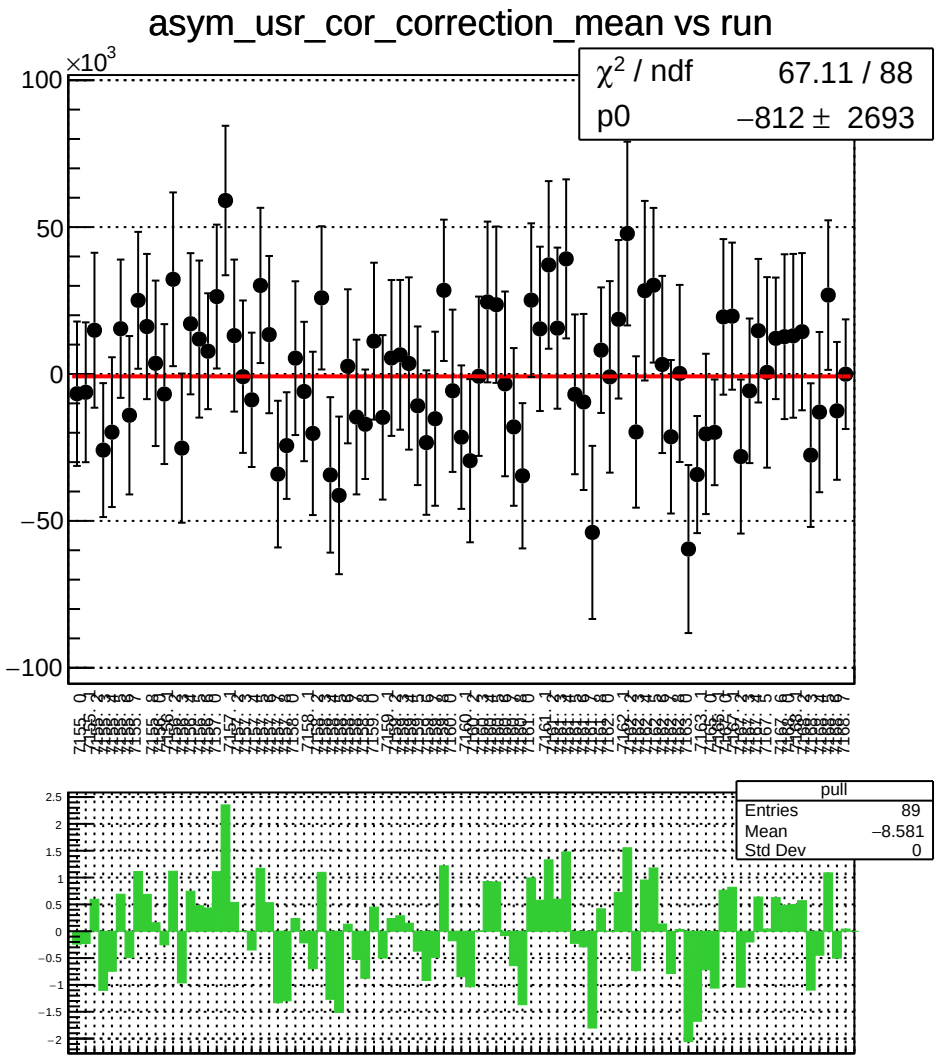

pull1D
Entries 89
Mean 0.01962
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

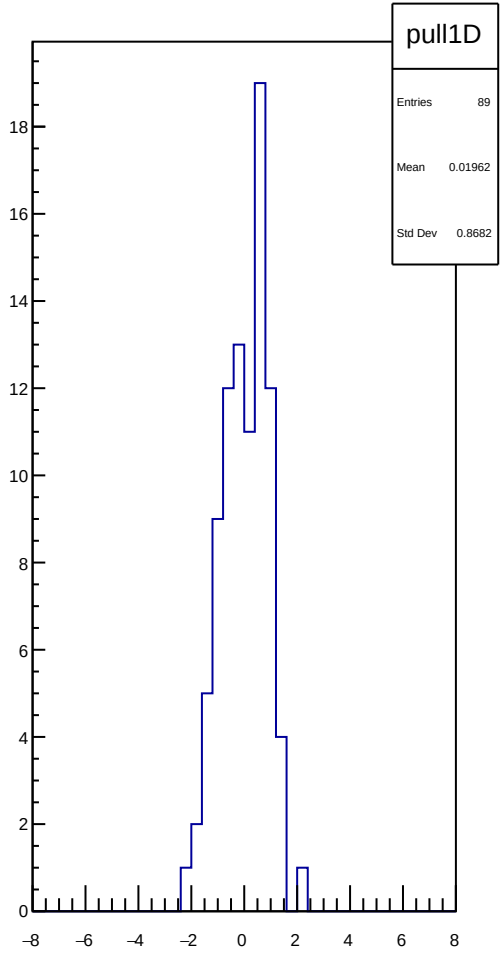

asym_usr_reg_correction_rms vs run
χ² / ndf 1.025e+04 / 88
p0 2497 ± 1.904
3200
3000
2800
2600
2400
2200

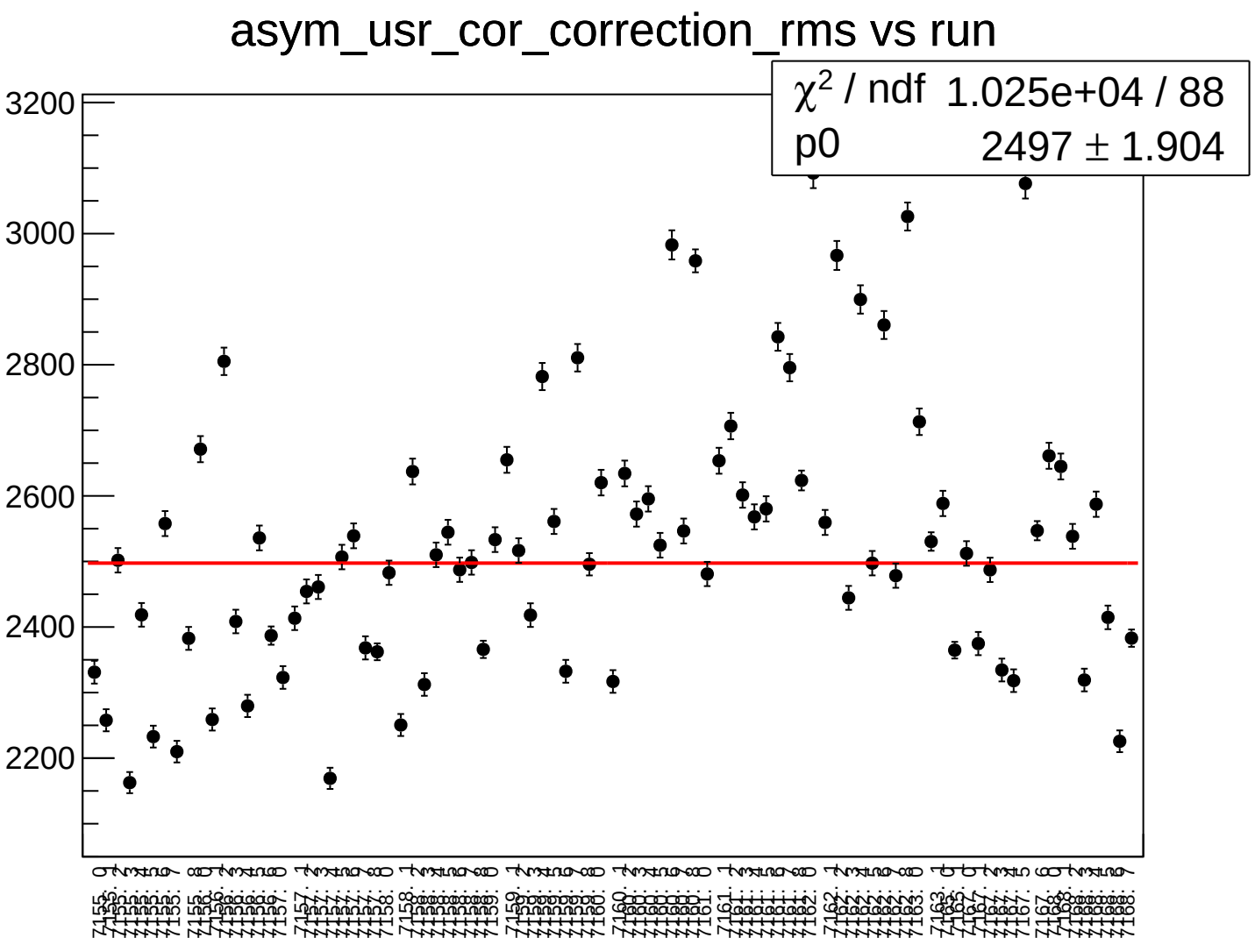

cor_asym_usr_mean vs run
χ² / ndf 83 / 88
p0 −2239 ± 1172
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −501.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

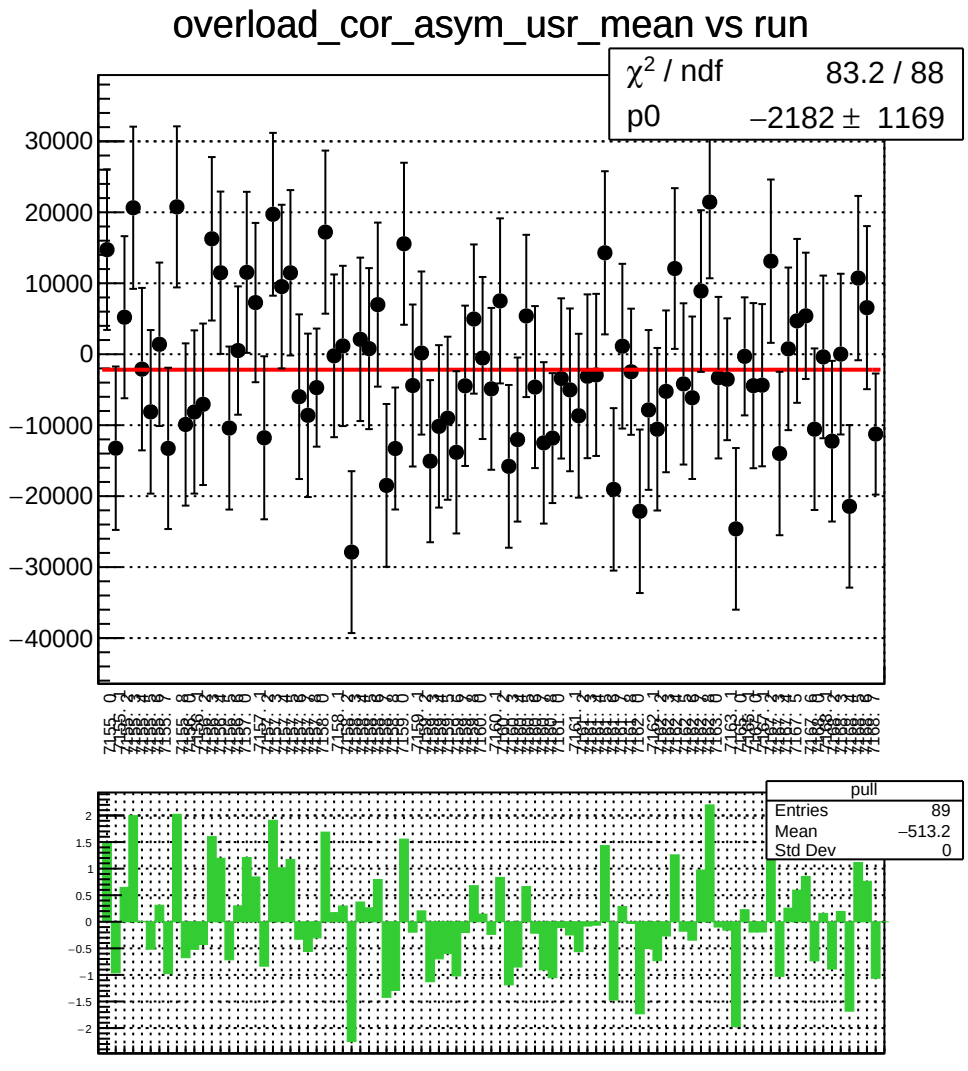

pull1D
Entries 89
Mean 0.007009
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

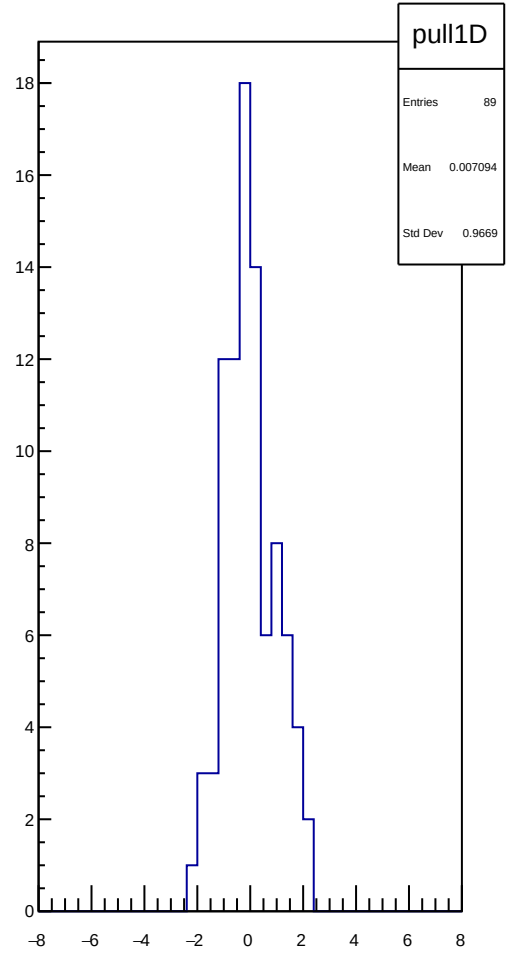

cor_asym_usr_rms vs run
χ^2 / ndf 92.21 / 88
p0 1090 ± 0.8284
1120
1110
1100
1090
1080
1070
1060

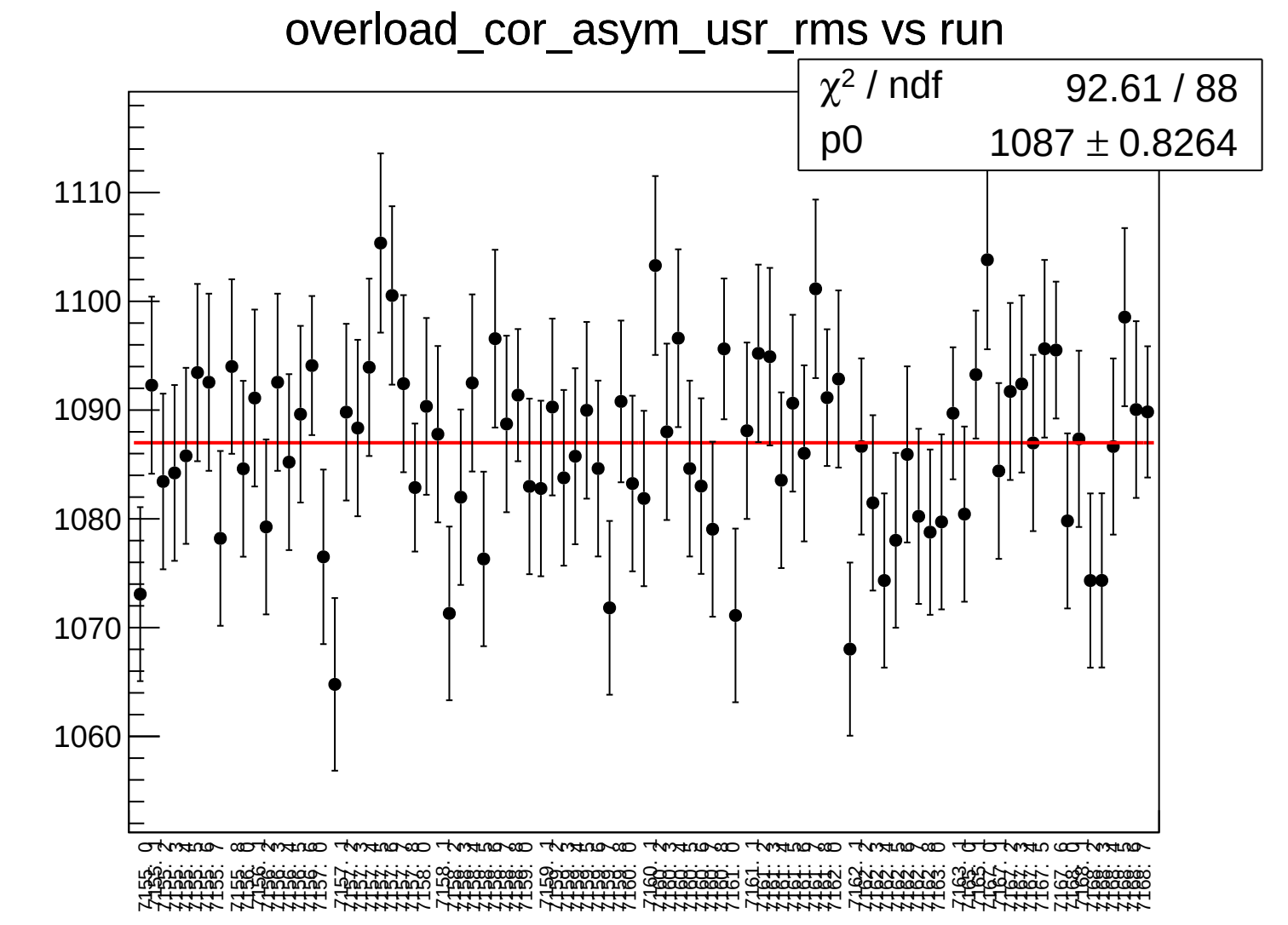

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 −812 ± 2693
100
50
0
−50
−100
pull
Entries 89
Mean −8.581
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

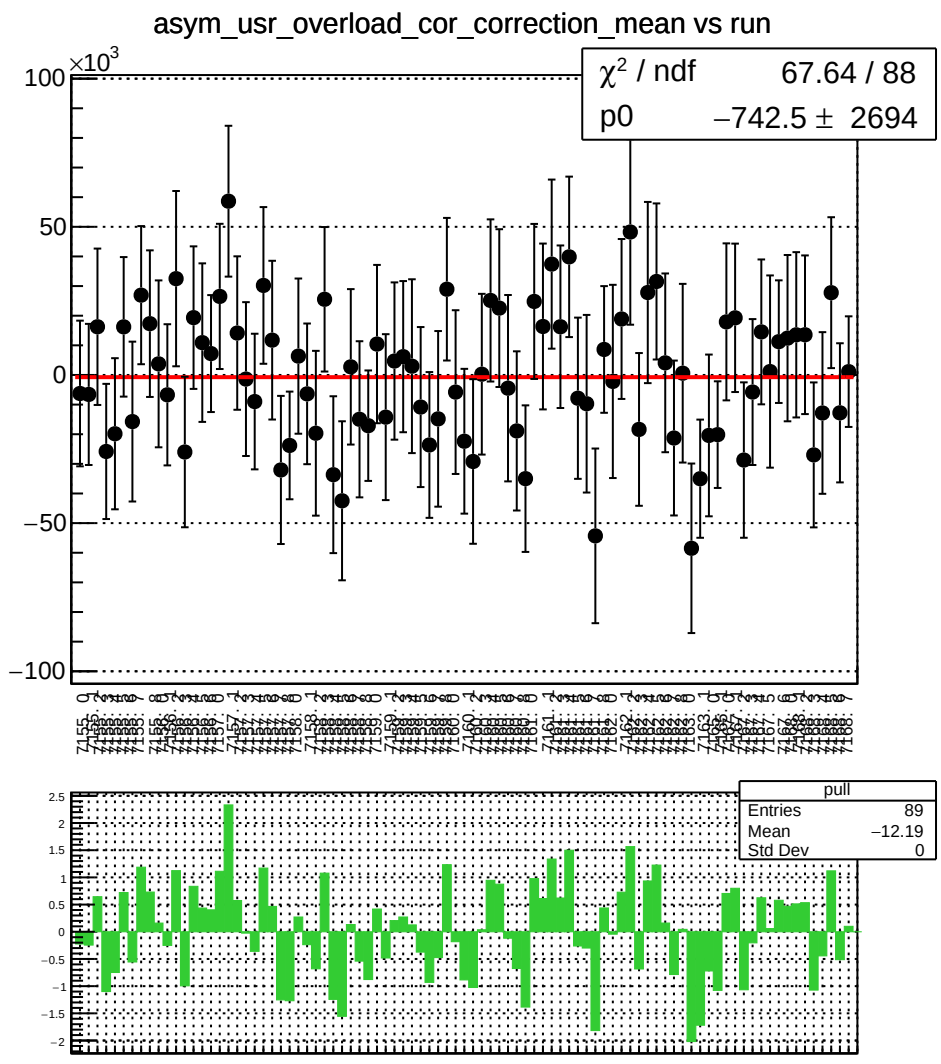

pull1D
Entries 89
Mean 0.01962
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

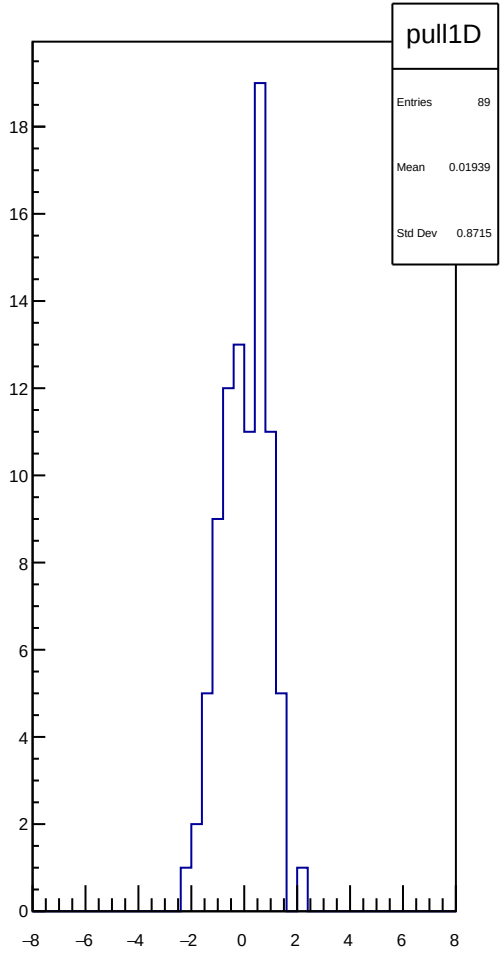

asym_usr_cor_correction_rms vs run
χ² / ndf 1.025e+04 / 88
p0 2497 ± 1.904
3200
3000
2800
2600
2400
2200

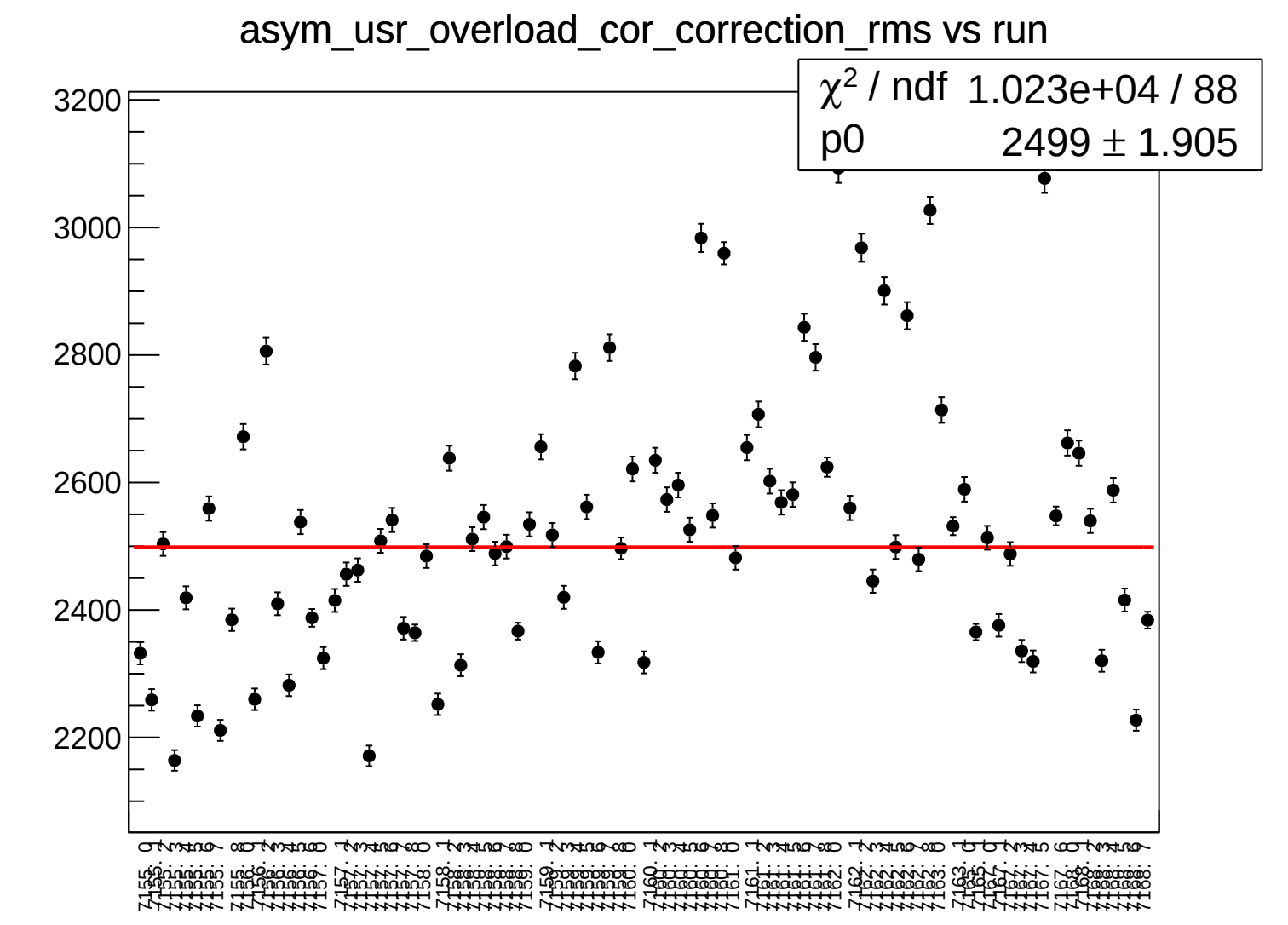

overload_cor_asym_usr_mean vs run
χ² / ndf 83.2 / 88
p0 −2182 ± 1169
pull
Entries 89
Mean −513.2
Std Dev 0

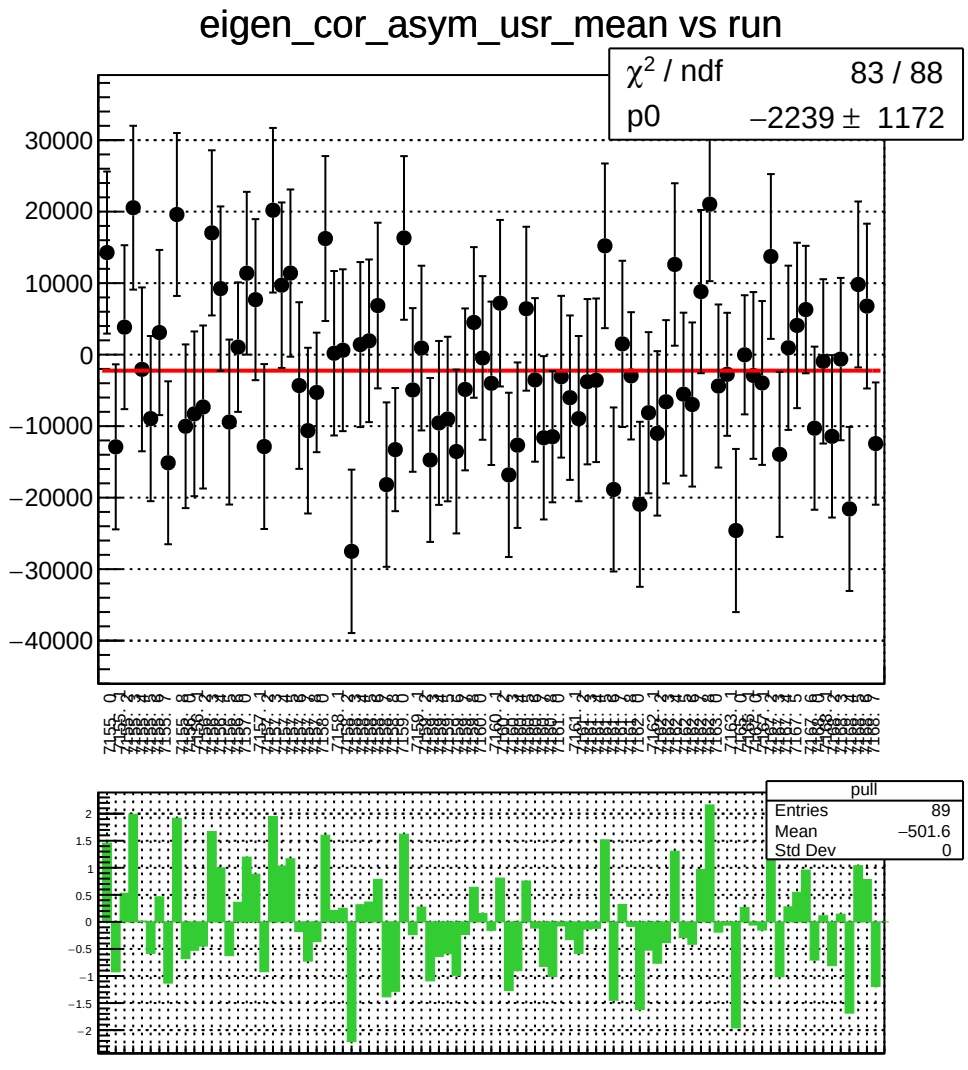

pull1D
Entries 89
Mean 0.007094
Std Dev 0.9669

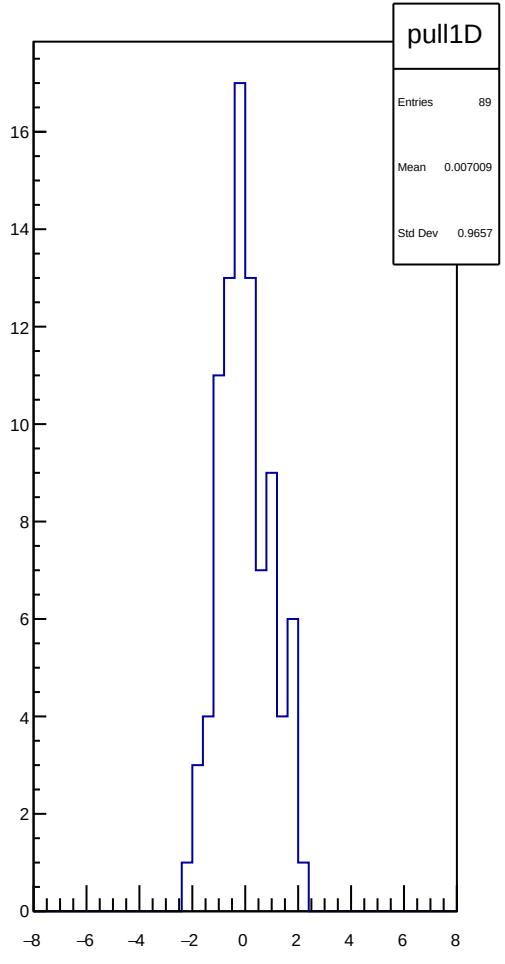

overload_cor_asym_usr_rms vs run
χ^2 / ndf 92.61 / 88
p0 1087 ± 0.8264
1110
1100
1090
1080
1070
1060

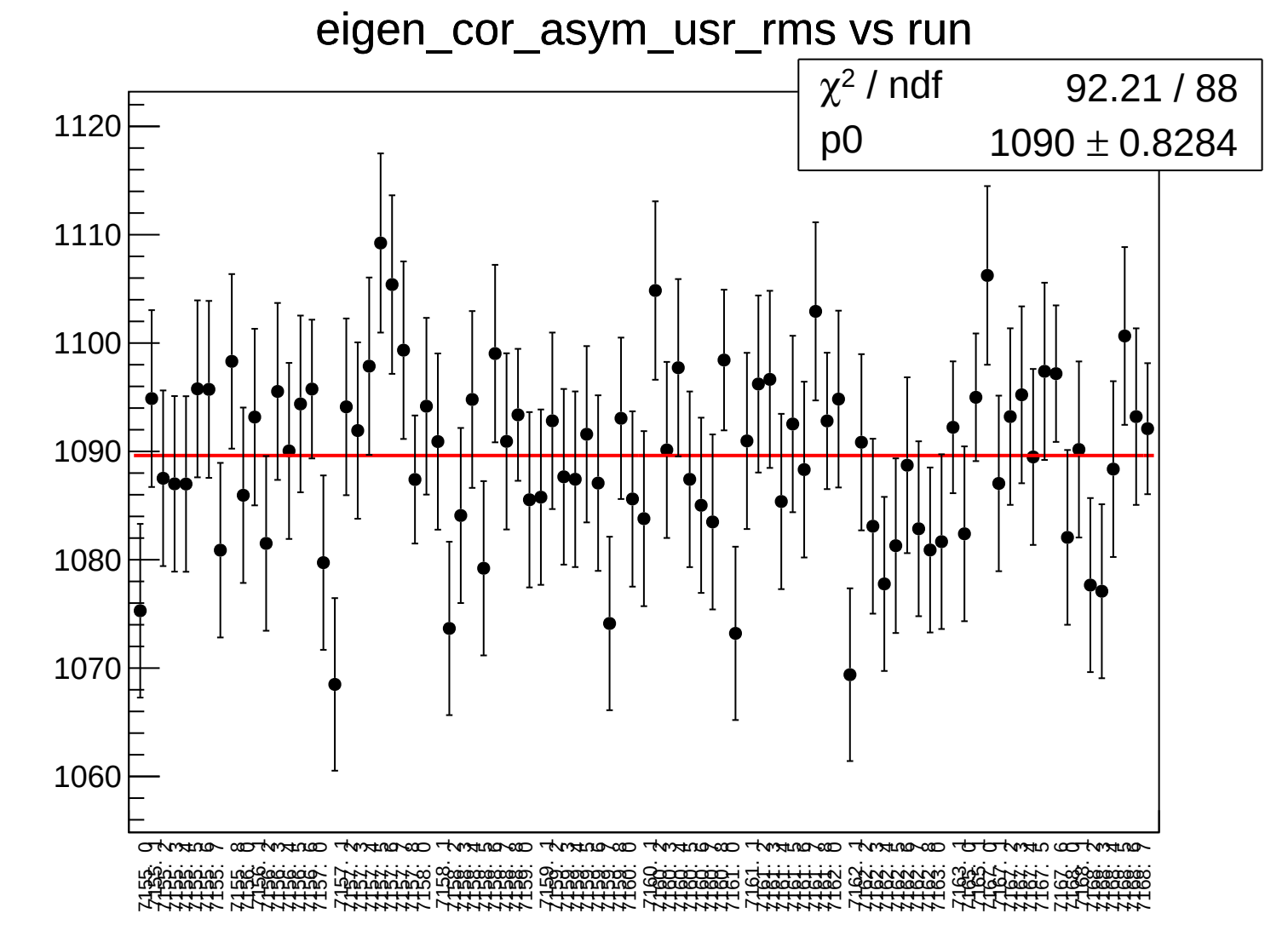

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 67.64 / 88
p0 −742.5 ± 2694
pull
Entries 89
Mean −12.19
Std Dev 0

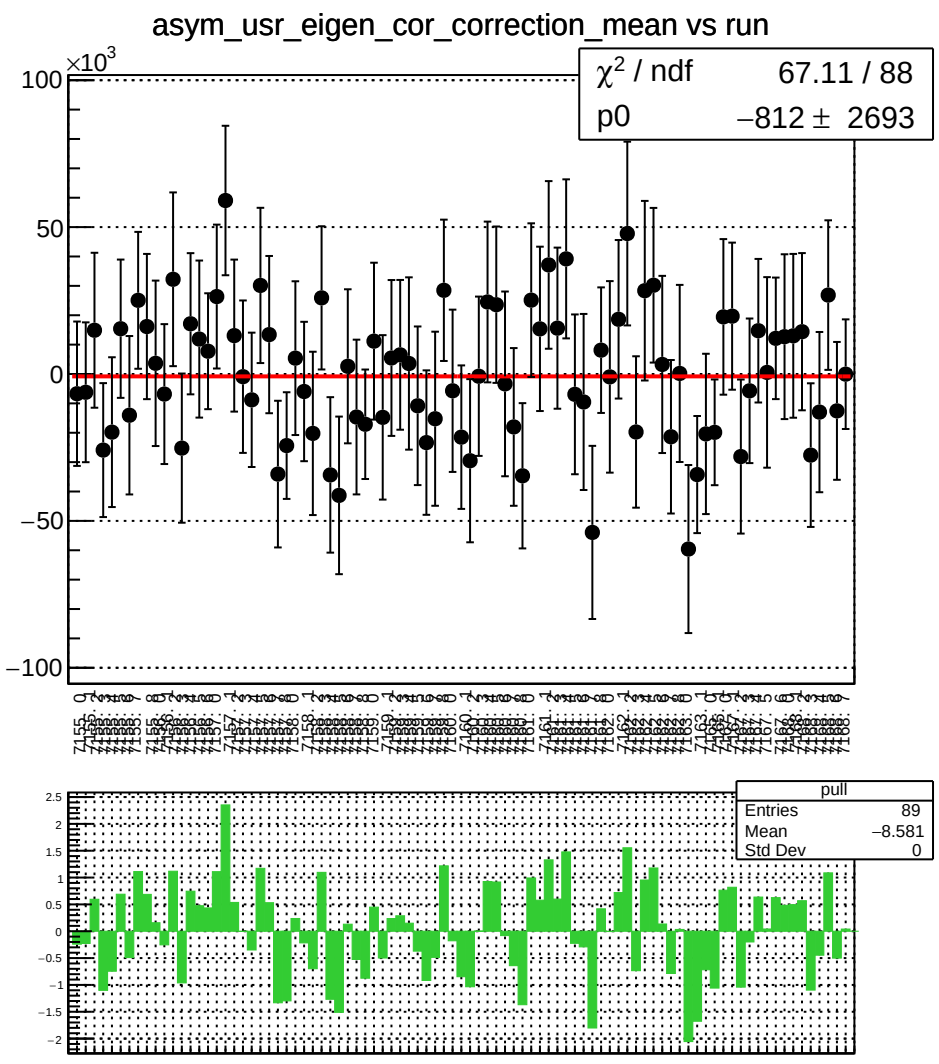

pull1D
Entries 89
Mean 0.01939
Std Dev 0.8715

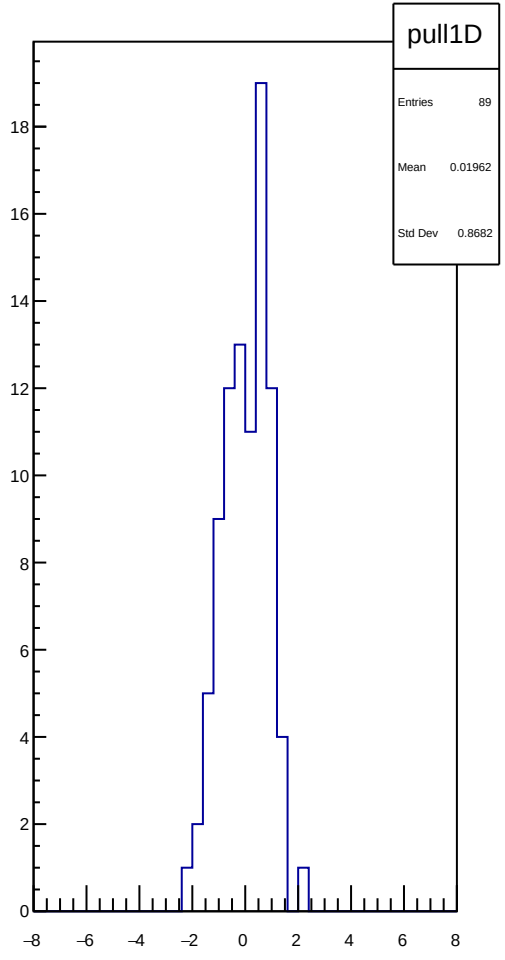

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 1.023e+04 / 88
p0 2499 ± 1.905
3200
3000
2800
2600
2400
2200

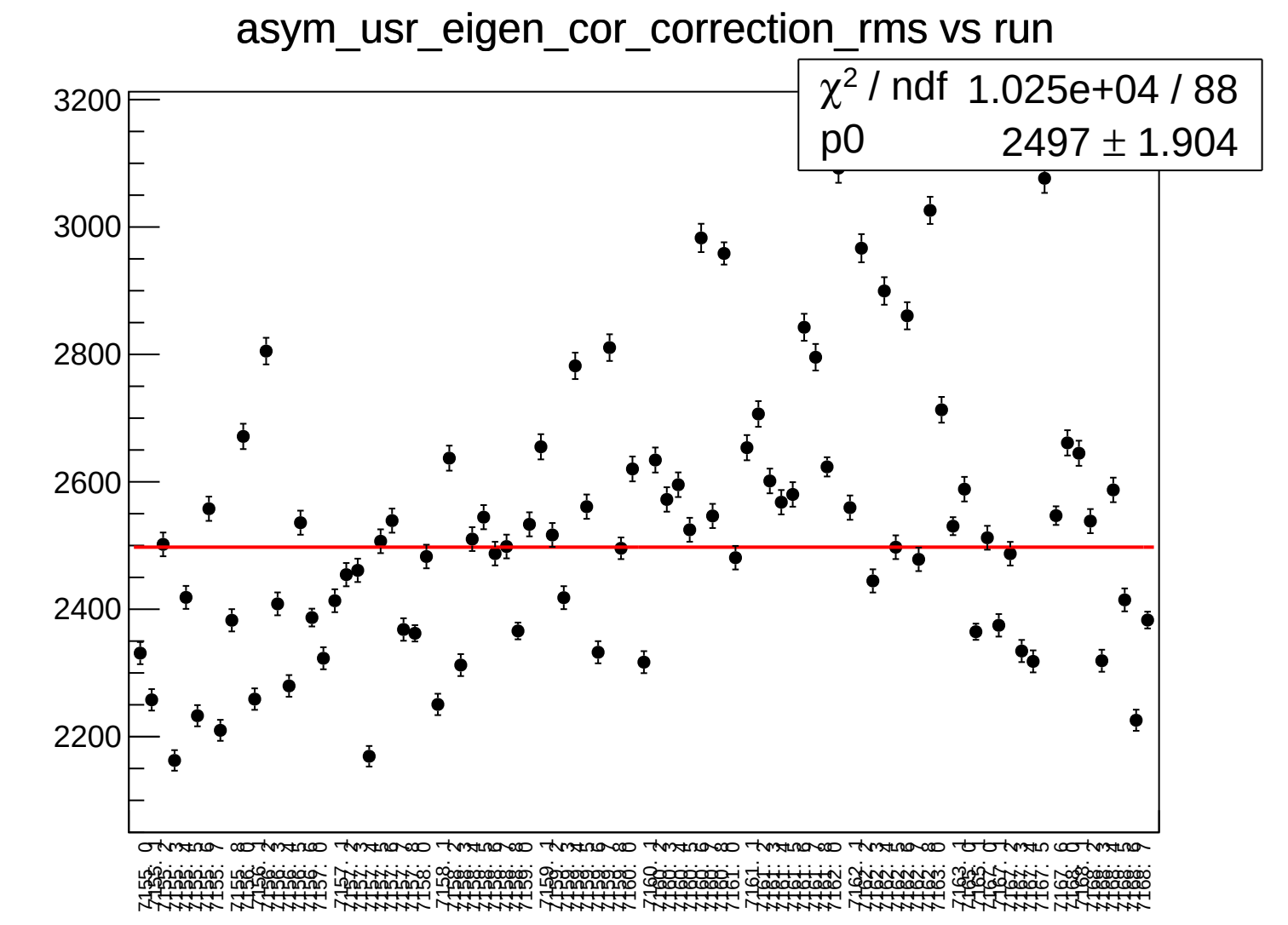

eigen_cor_asym_usr_mean vs run
χ² / ndf 83 / 88
p0 −2239 ± 1172
pull
Entries 89
Mean −501.6
Std Dev 0

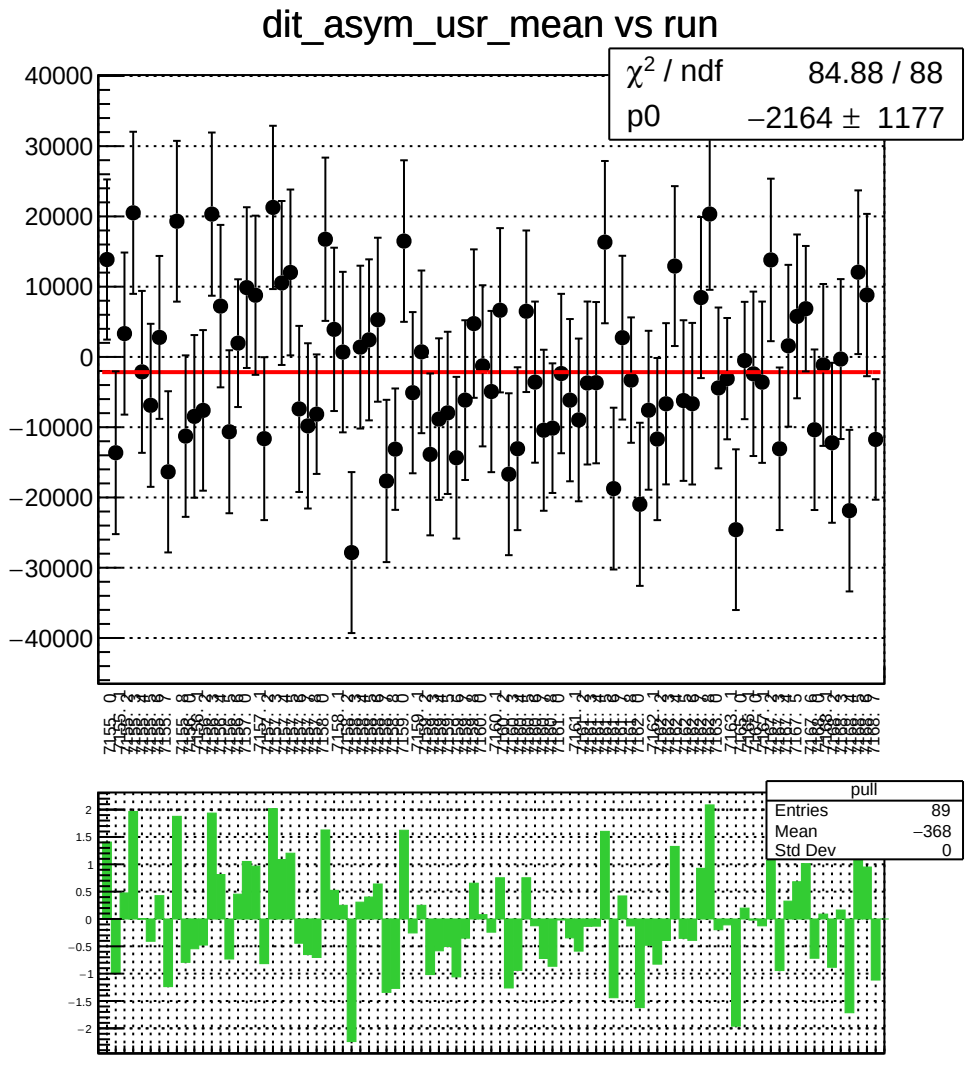

pull1D
Entries 89
Mean 0.007009
Std Dev 0.9657

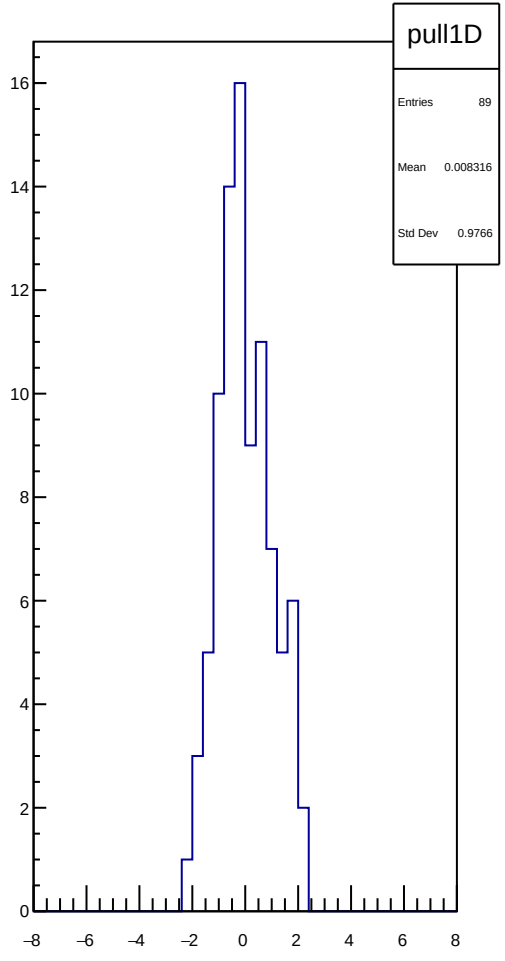

eigen_cor_asym_usr_rms vs run
χ² / ndf 92.21 / 88
p0 1090 ± 0.8284
1120
1110
1100
1090
1080
1070
1060

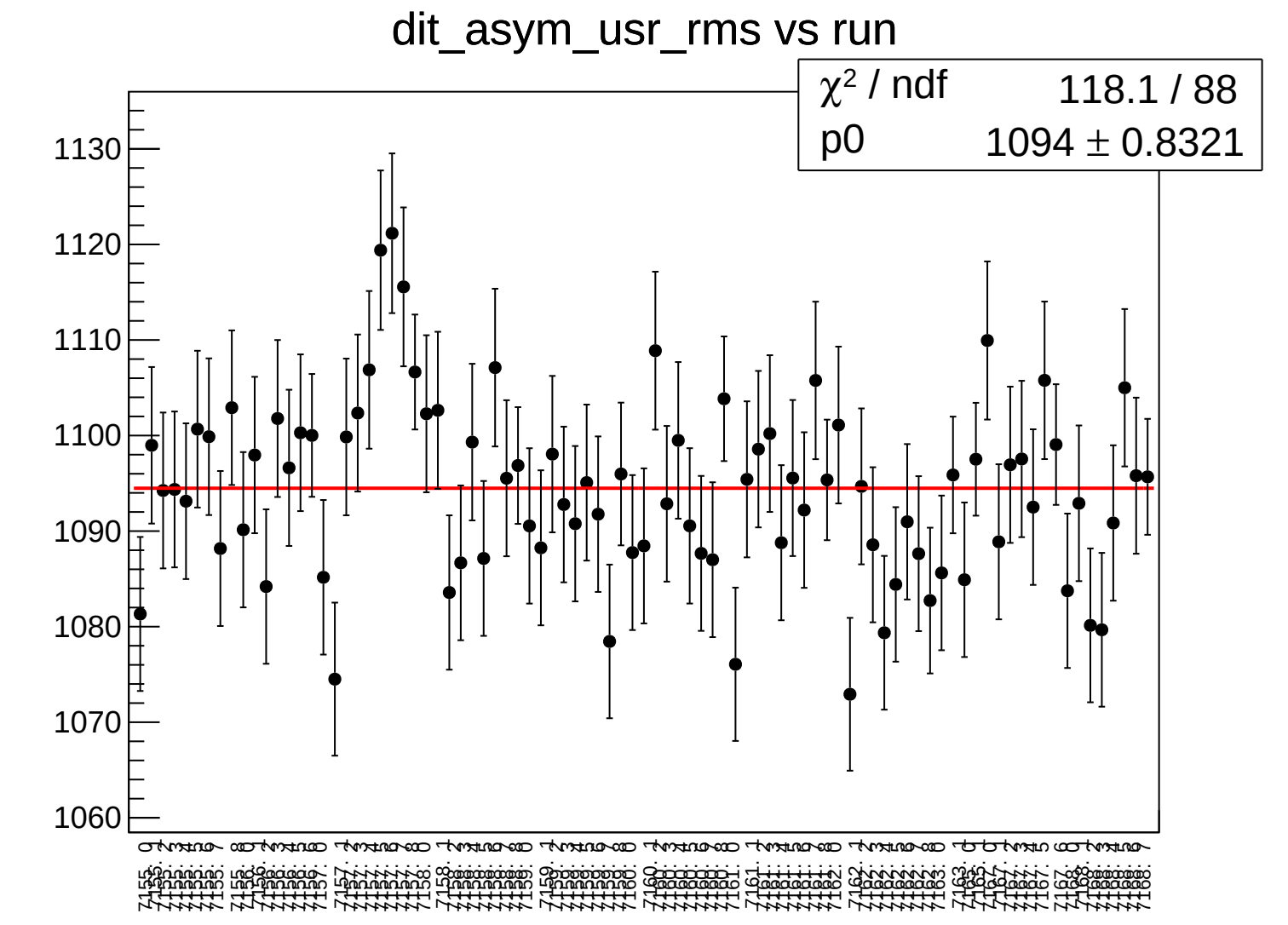

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 67.11 / 88
p0 −812 ± 2693
100
50
0
−50
−100
pull
Entries 89
Mean −8.581
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

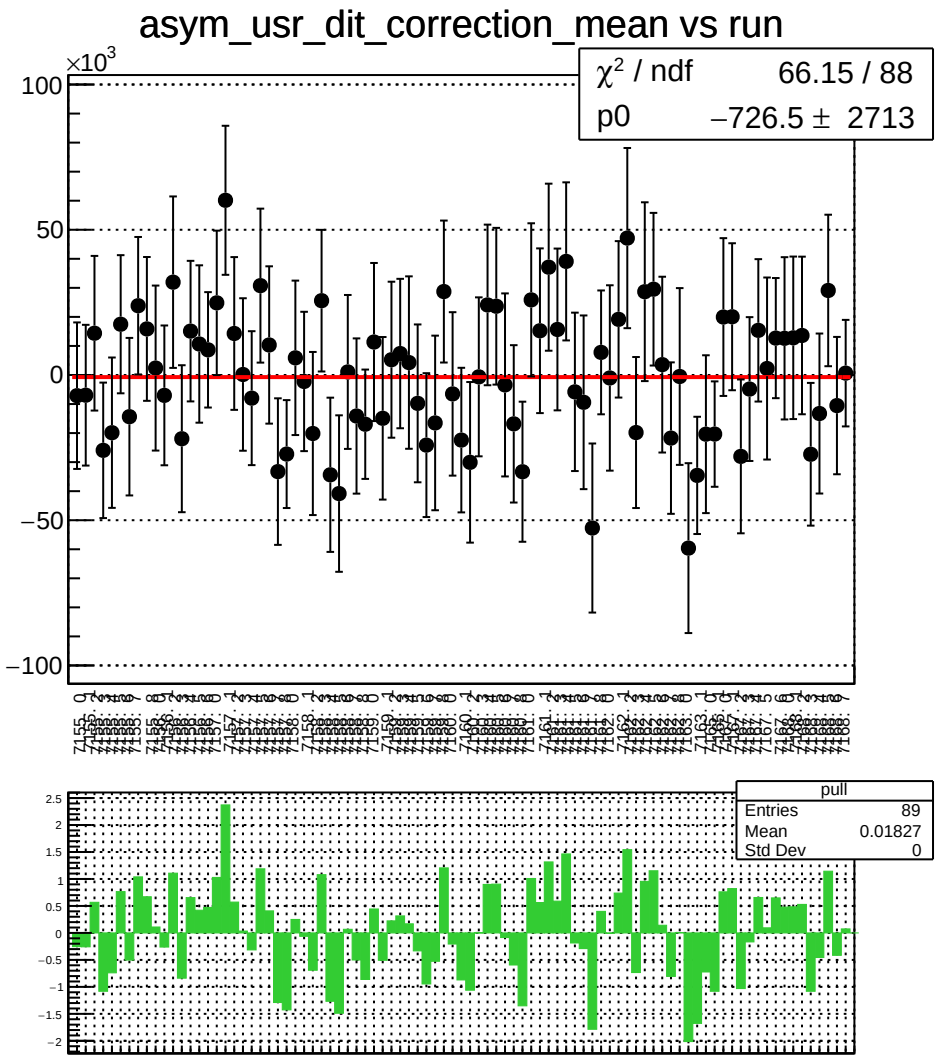

pull1D
Entries 89
Mean 0.01962
Std Dev 0.8682
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

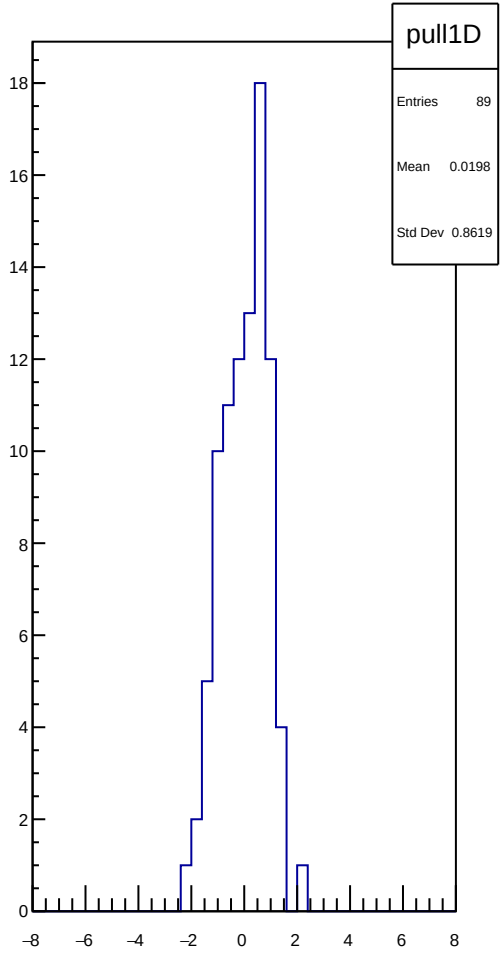

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 1.025e+04 / 88
p0 2497 ± 1.904
3200
3000
2800
2600
2400
2200

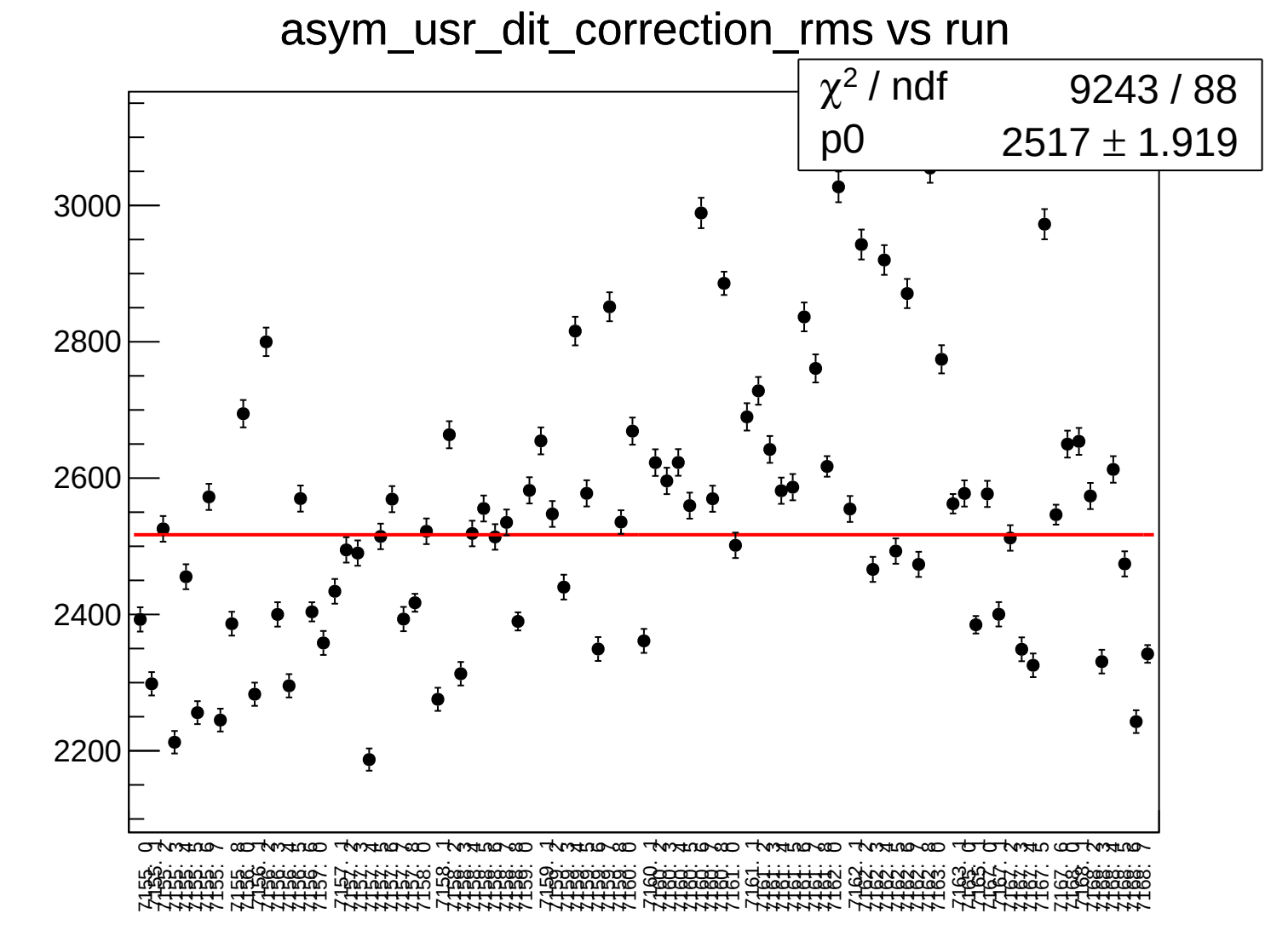

dit_asym_usr_mean vs run
χ² / ndf 84.88 / 88
p0 −2164 ± 1177
pull
Entries 89
Mean −368
Std Dev 0

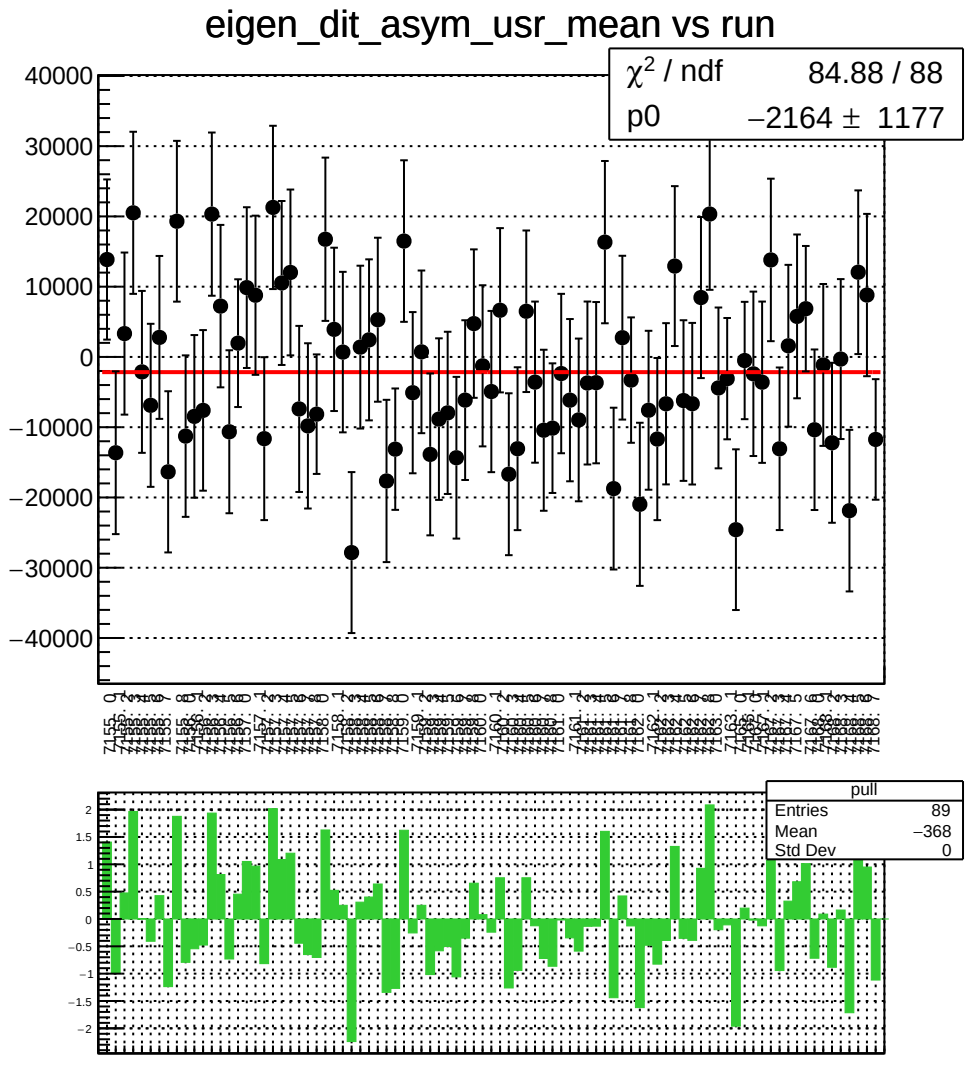

pull1D
Entries 89
Mean 0.008316
Std Dev 0.9766

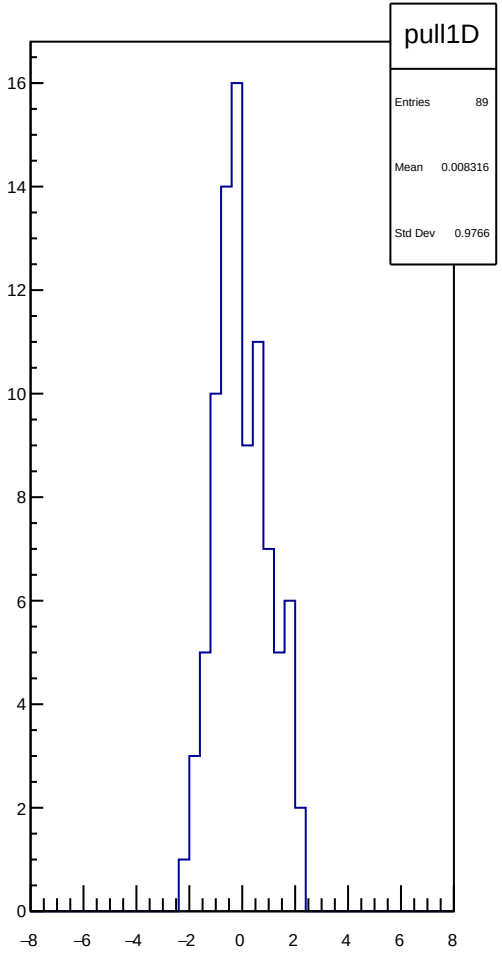

dit_asym_usr_rms vs run
χ² / ndf 118.1 / 88
p0 1094 ± 0.8321
1130
1120
1110
1100
1090
1080
1070
1060

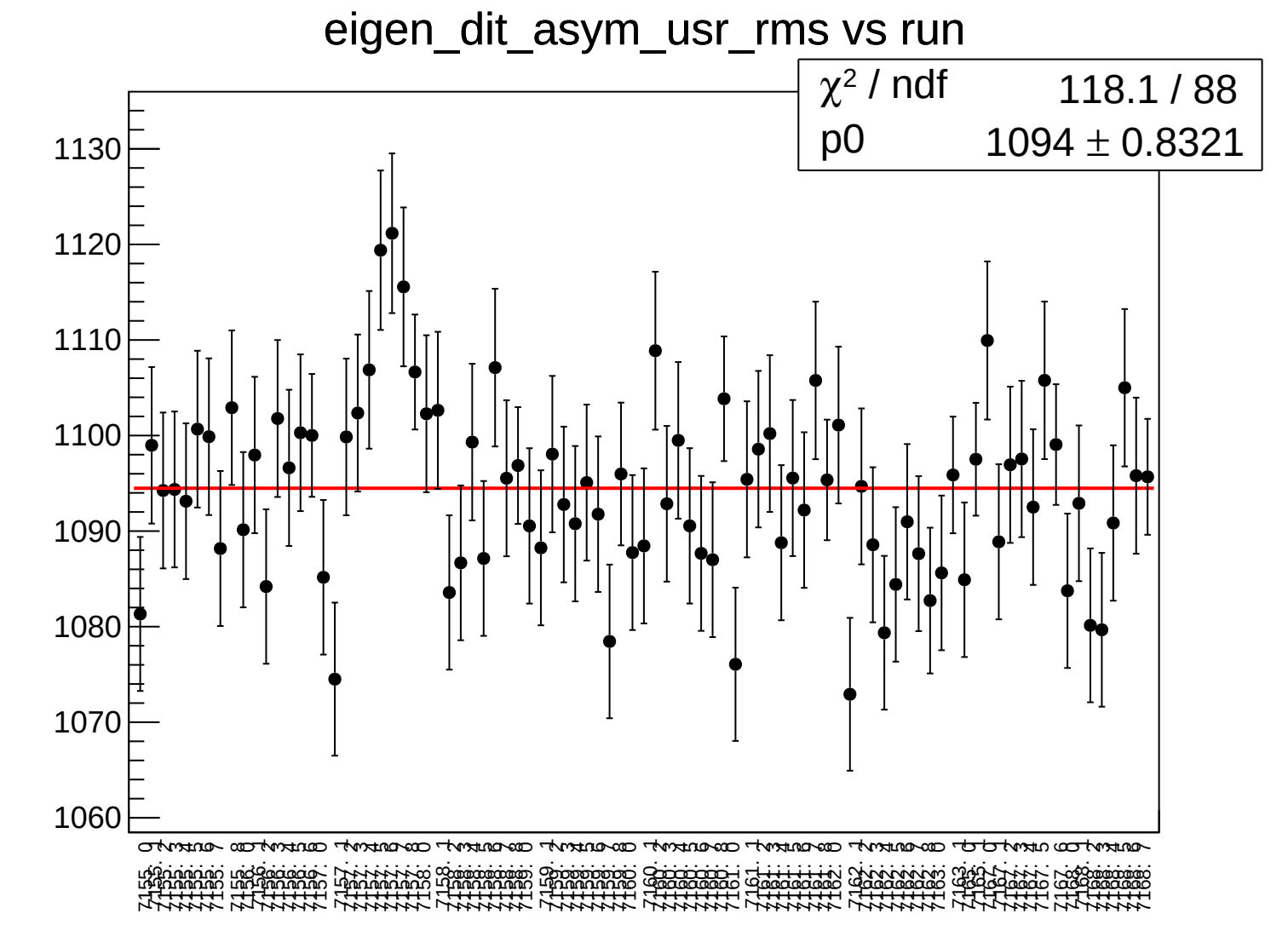

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 66.15 / 88
p0 −726.5 ± 2713
100
50
0
−50
−100
pull
Entries 89
Mean 0.01827
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

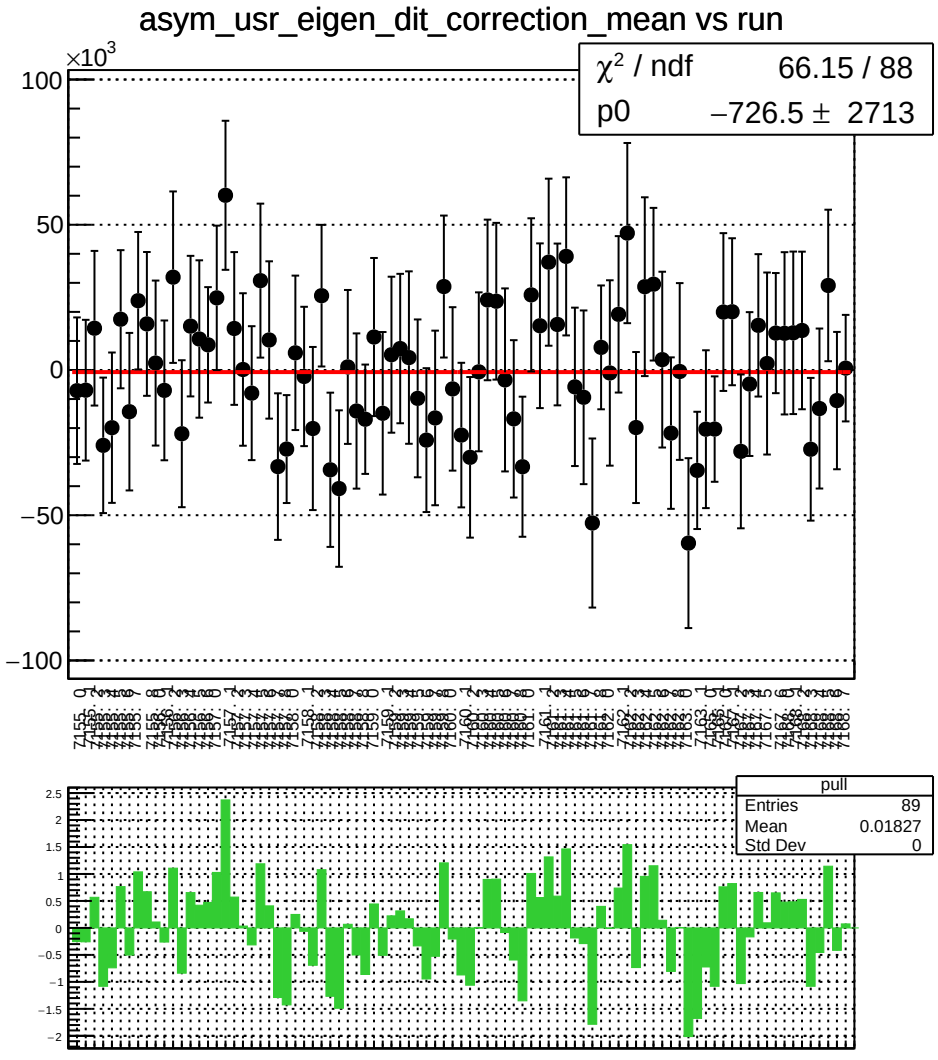

pull1D
Entries 89
Mean 0.0198
Std Dev 0.8619
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

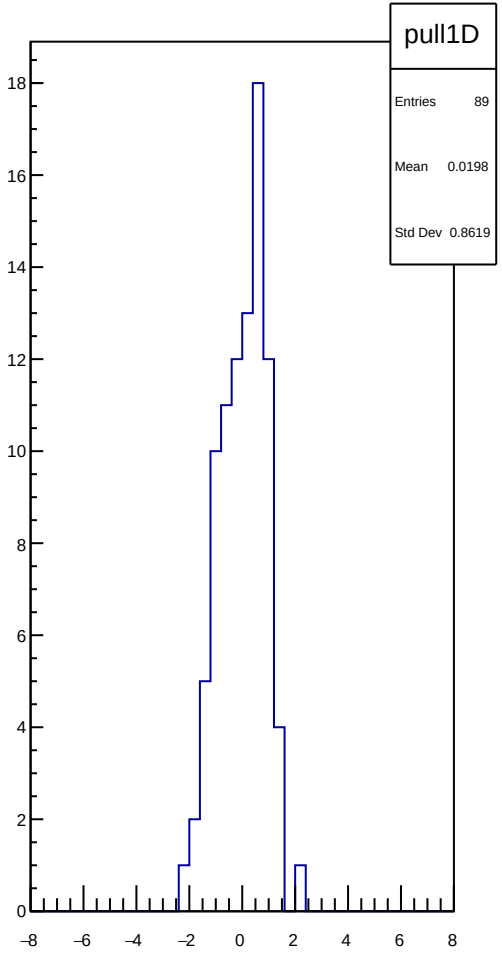

asym_usr_dit_correction_rms vs run
χ² / ndf 9243 / 88
p0 2517 ± 1.919
3000
2800
2600
2400
2200

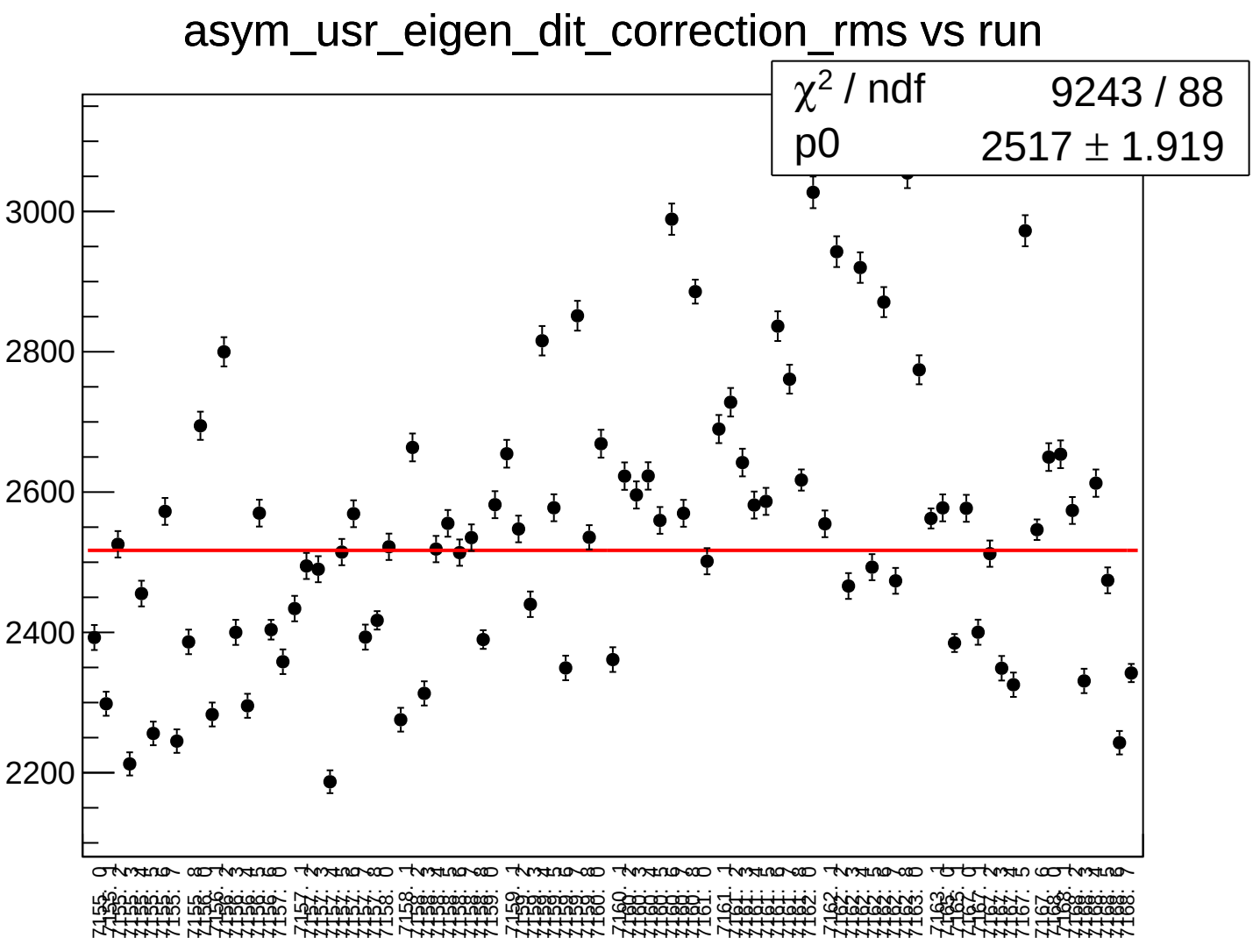

eigen_dit_asym_usr_mean vs run
χ² / ndf 84.88 / 88
p0 −2164 ± 1177
pull
Entries 89
Mean −368
Std Dev 0

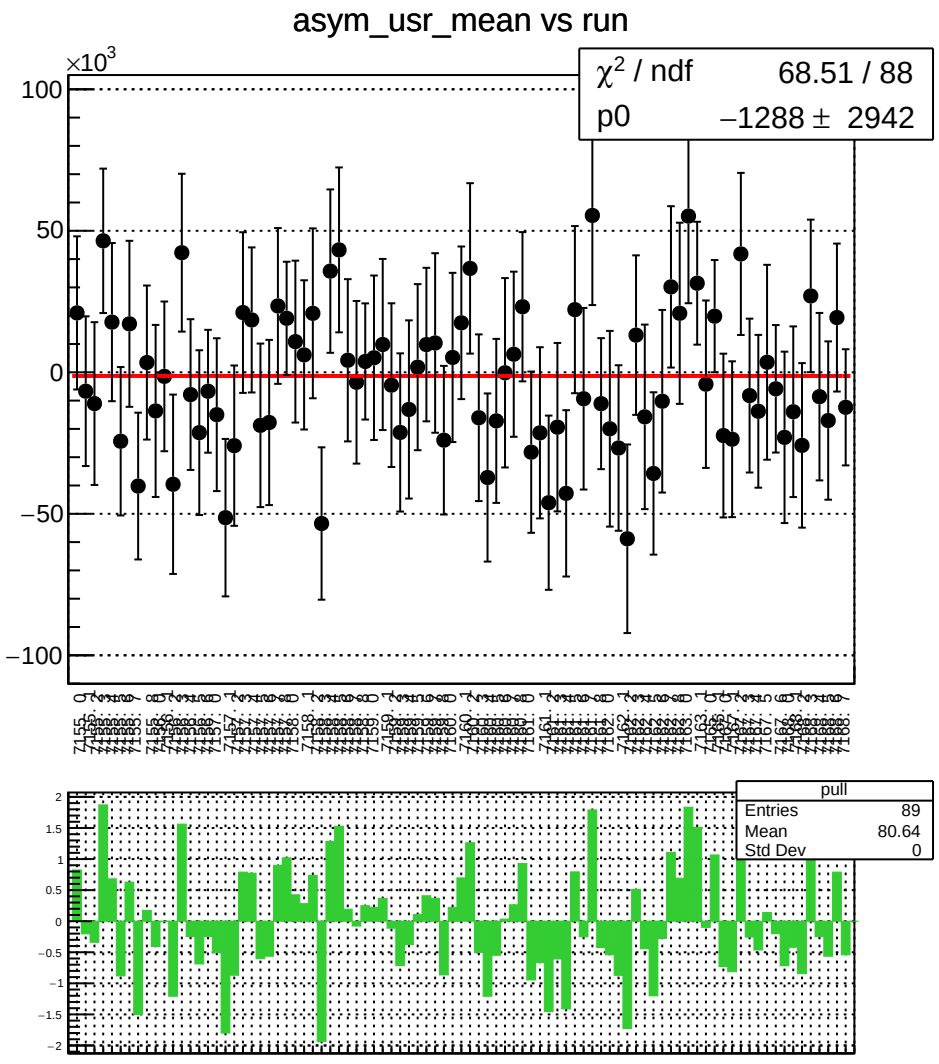

pull1D
Entries 89
Mean 0.008316
Std Dev 0.9766

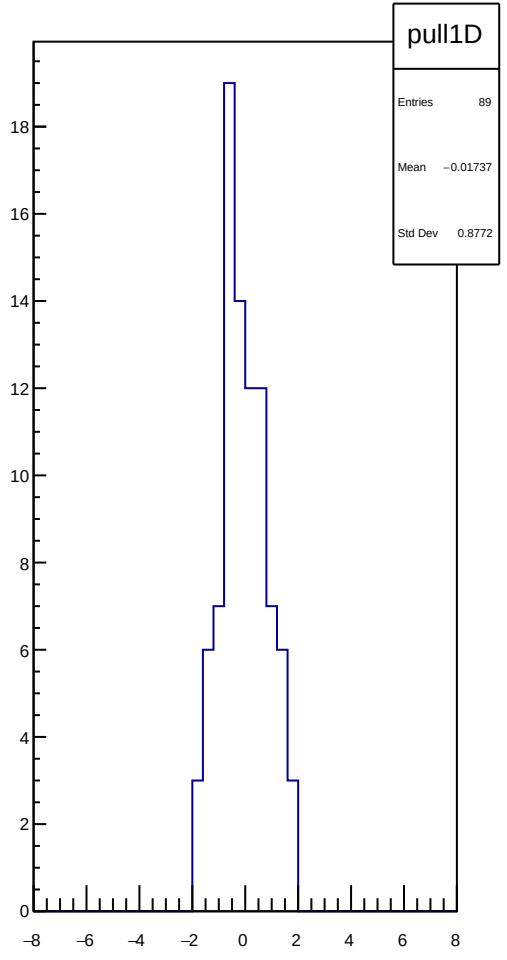

eigen_dit_asym_usr_rms vs run
χ² / ndf 118.1 / 88
p0 1094 ± 0.8321
1130
1120
1110
1100
1090
1080
1070
1060

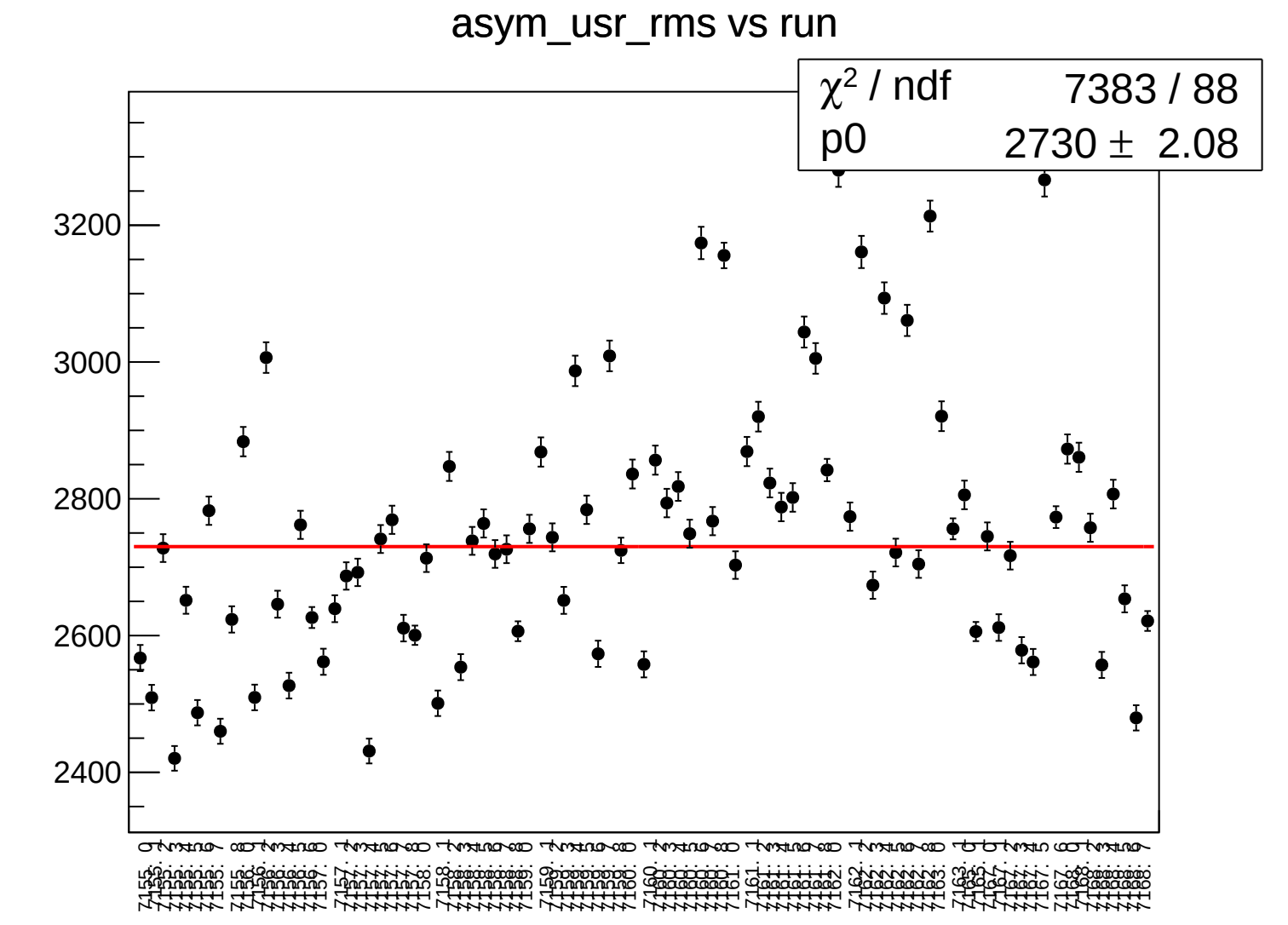

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 66.15 / 88
p0 −726.5 ± 2713
pull
Entries 89
Mean 0.01827
Std Dev 0

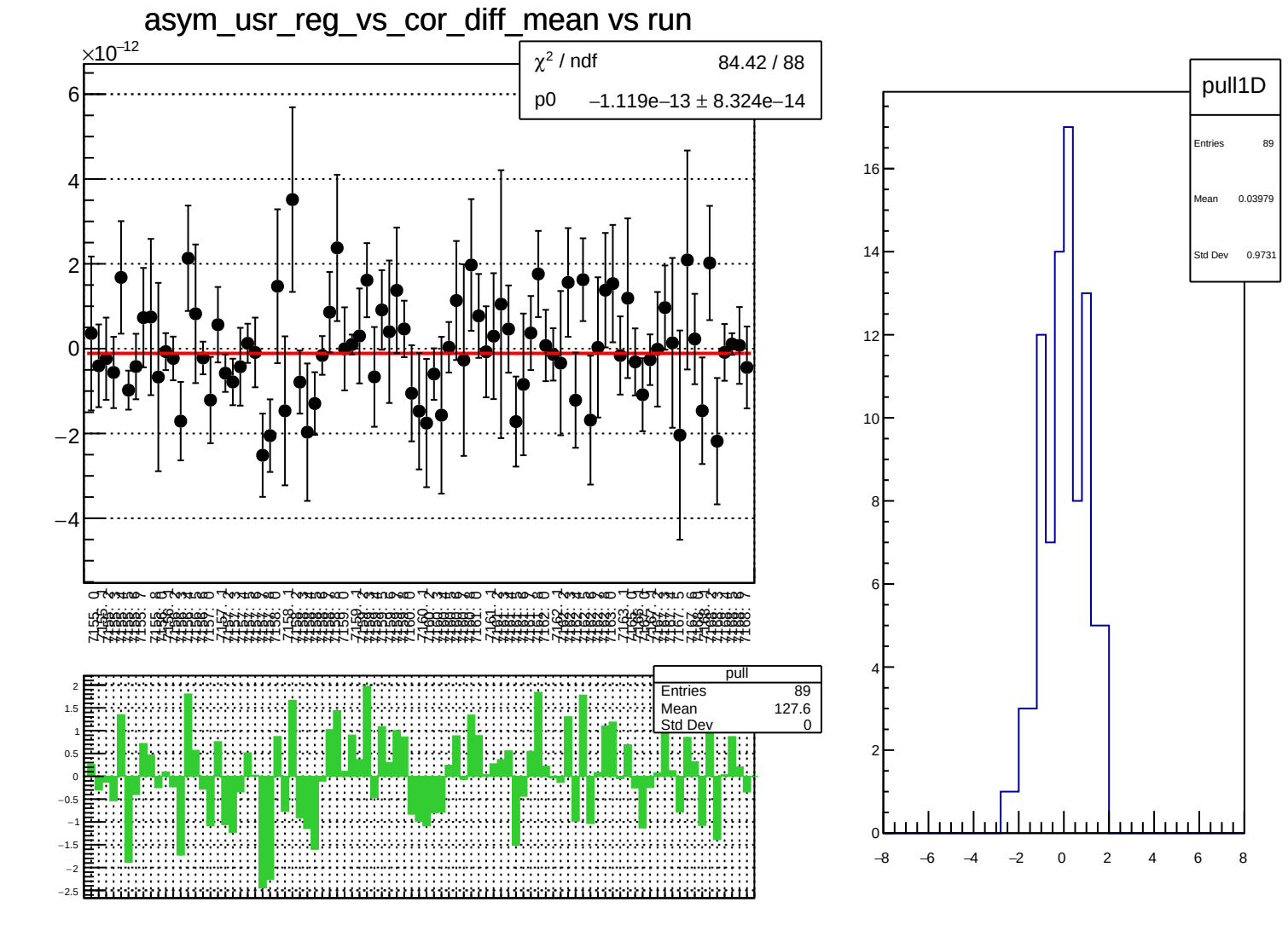

pull1D
Entries 89
Mean 0.0198
Std Dev 0.8619

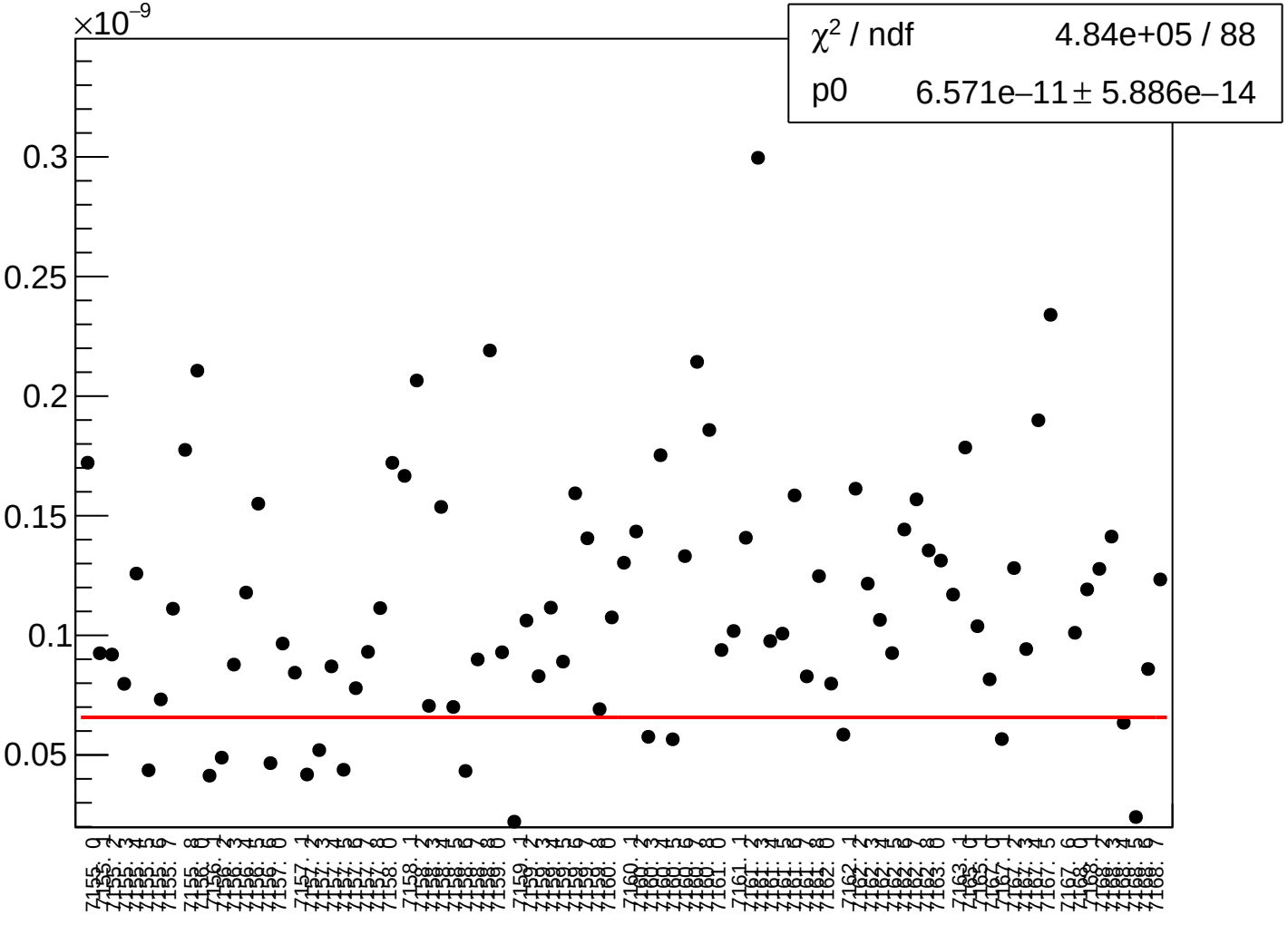

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 9243 / 88
p0 2517 ± 1.919
3000
2800
2600
2400
2200

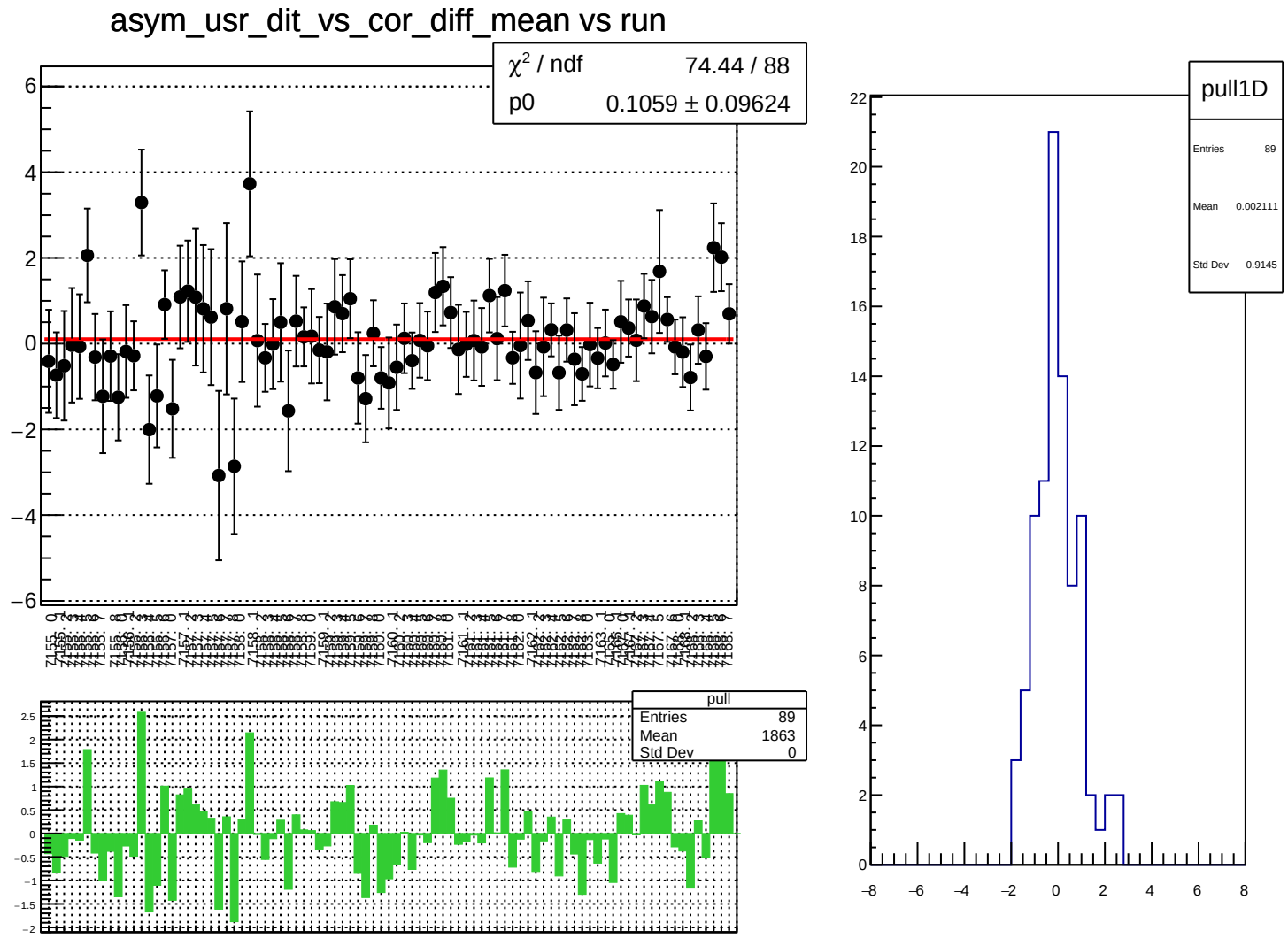

asym_usr_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 68.51 / 88
p0 −1288 ± 2942
pull
Entries 89
Mean 80.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

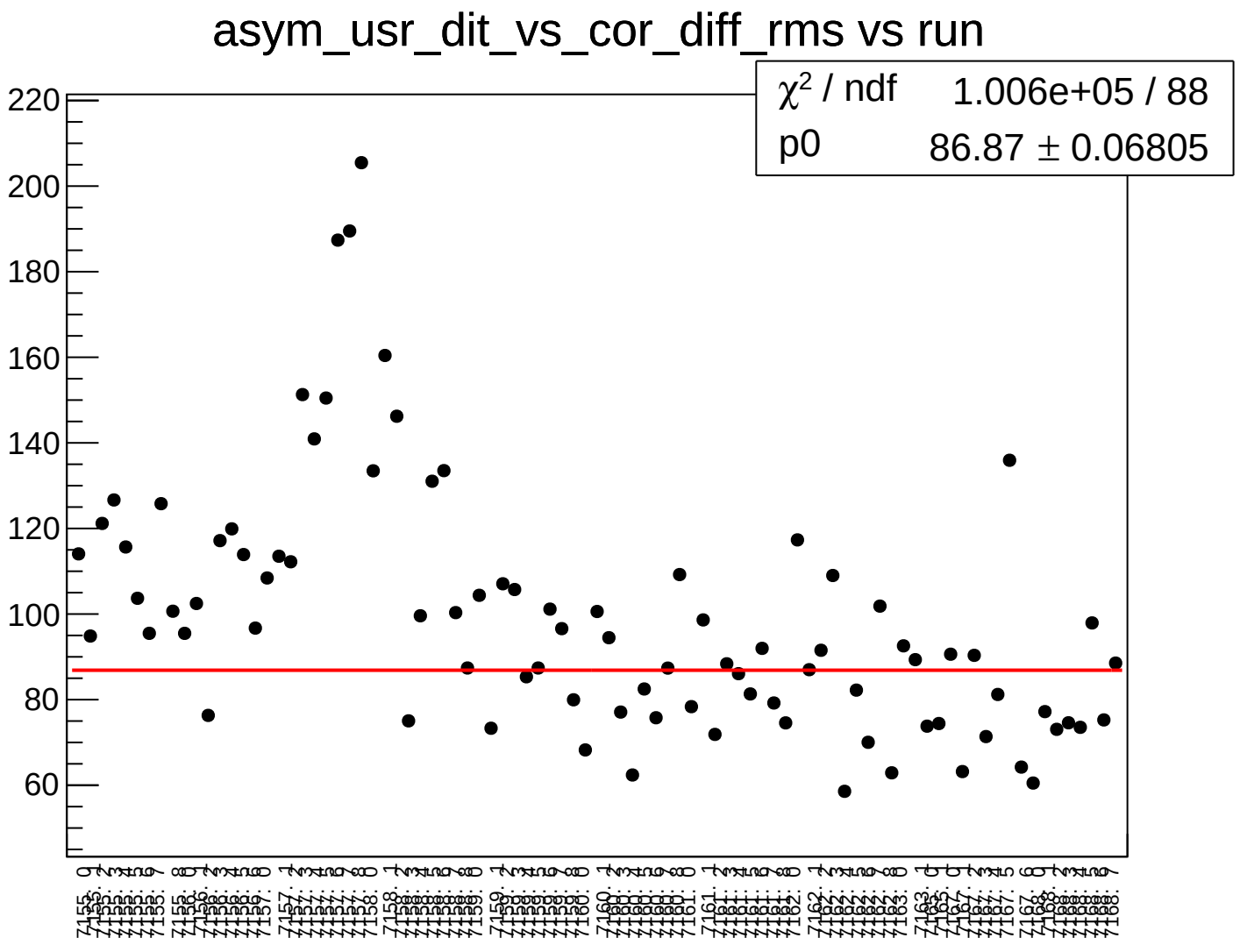

pull1D
Entries 89
Mean −0.01737
Std Dev 0.8772
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

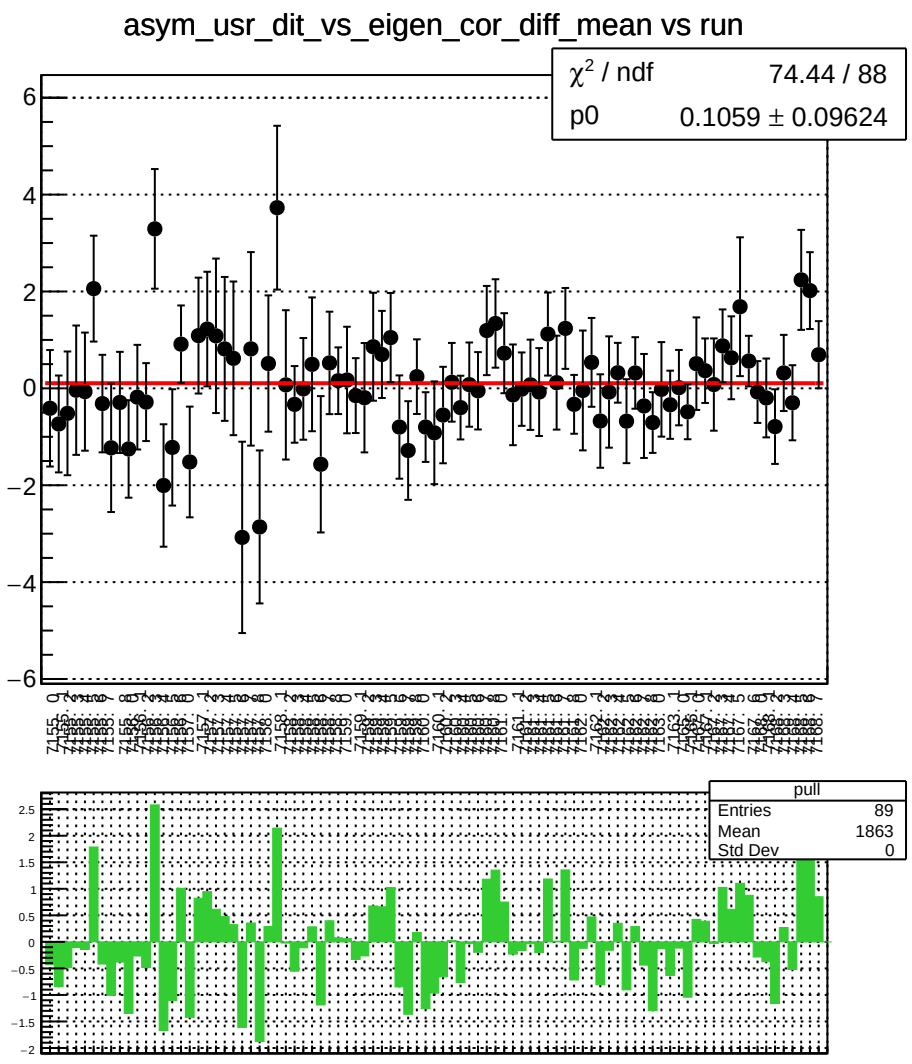

asym_usr_rms vs run
χ² / ndf 7383 / 88
p0 2730 ± 2.08
3200
3000
2800
2600
2400

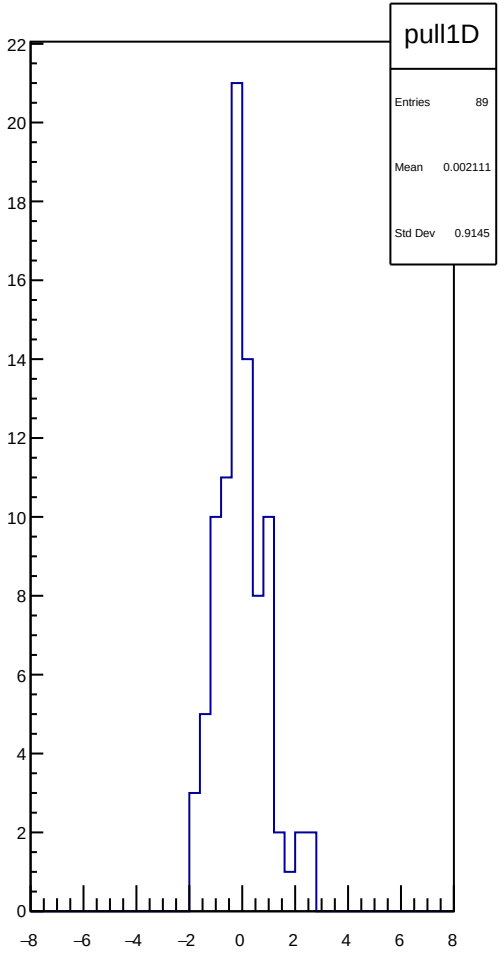

asym_usr_reg_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 84.42 / 88
p0 −1.119e−13 ± 8.324e−14
pull
Entries 89
Mean 127.6
Std Dev 0
pull1D
Entries 89
Mean 0.03979
Std Dev 0.9731

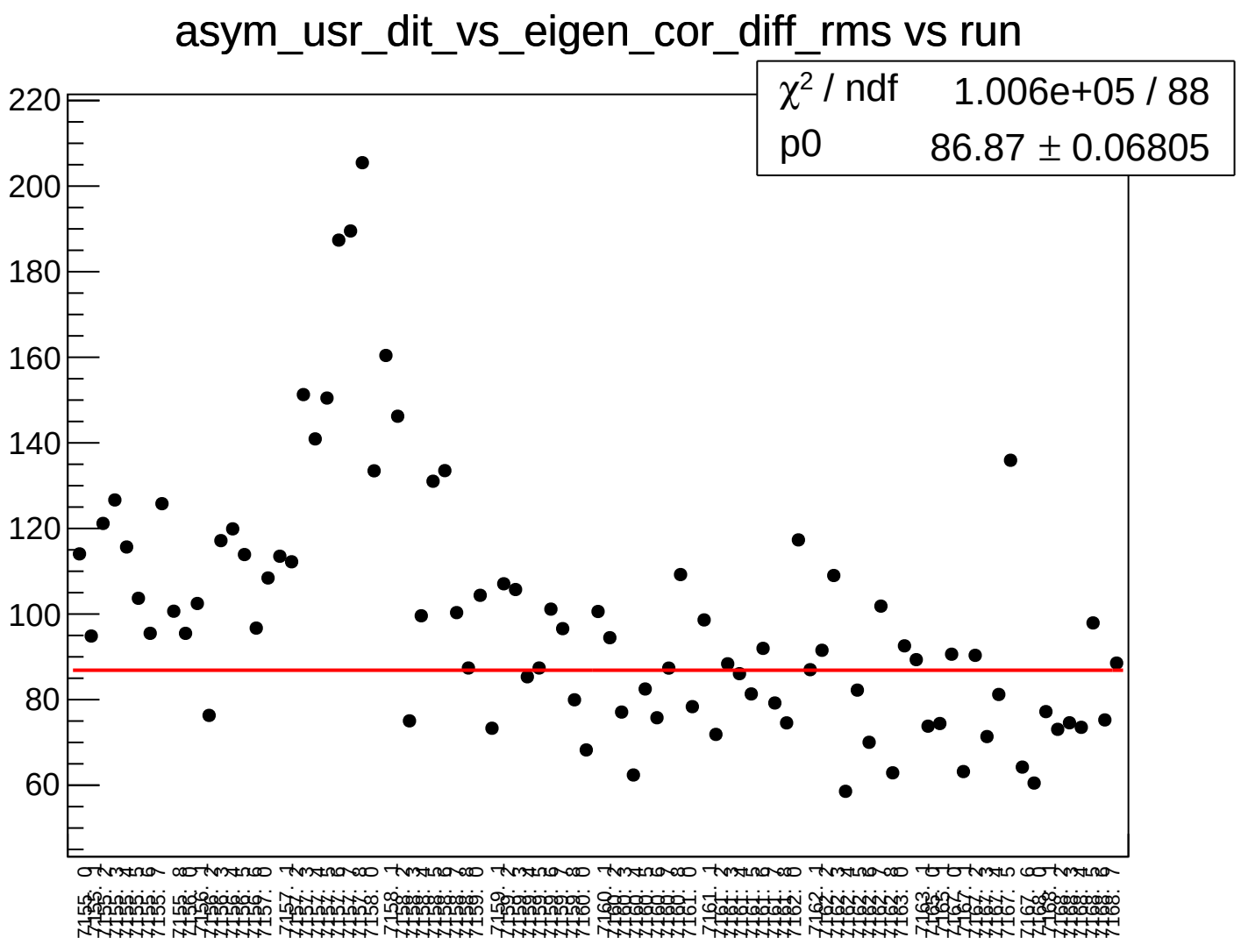

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.84e+05 / 88
p0 6.571e−11 ± 5.886e−14
0.3
0.25
0.2
0.15
0.1
0.05

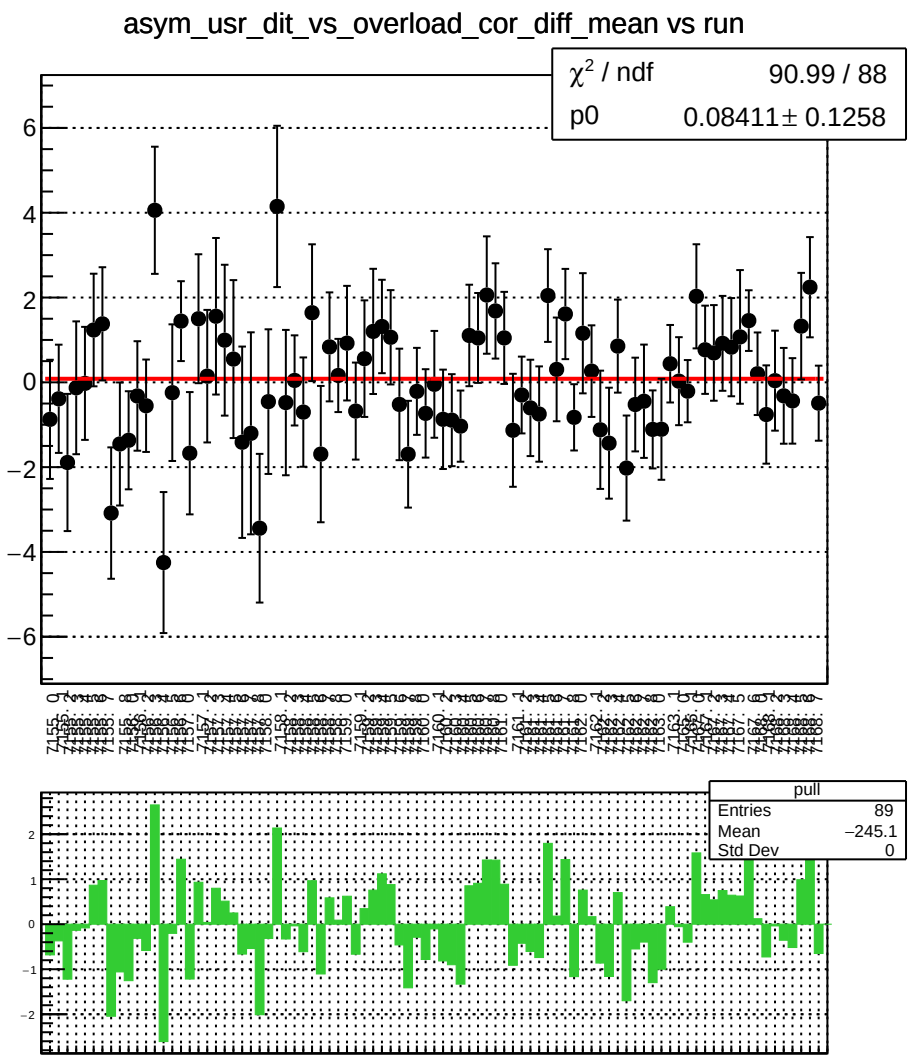

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 88
p0 0.1059 ± 0.09624
pull
Entries 89
Mean 1863
Std Dev 0
pull1D
Entries 89
Mean 0.002111
Std Dev 0.9145

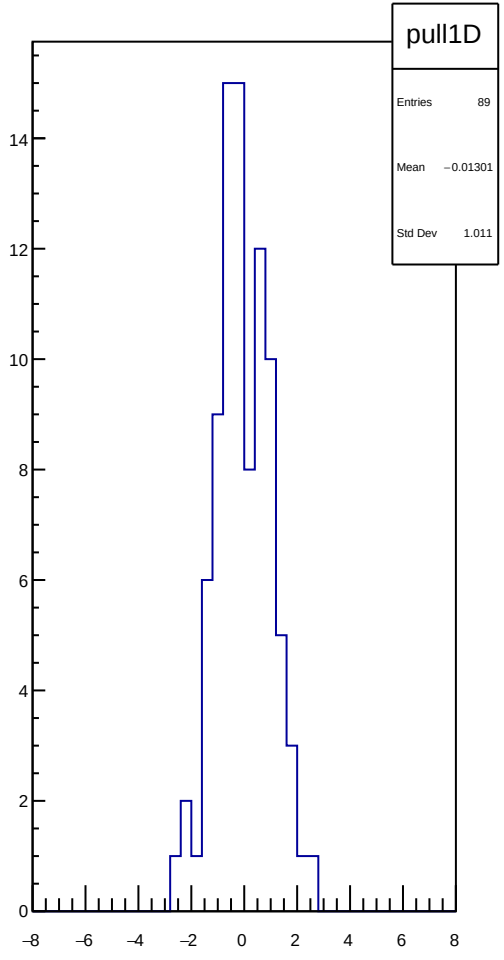

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 88
p0 86.87 ± 0.06805
220
200
180
160
140
120
100
80
60

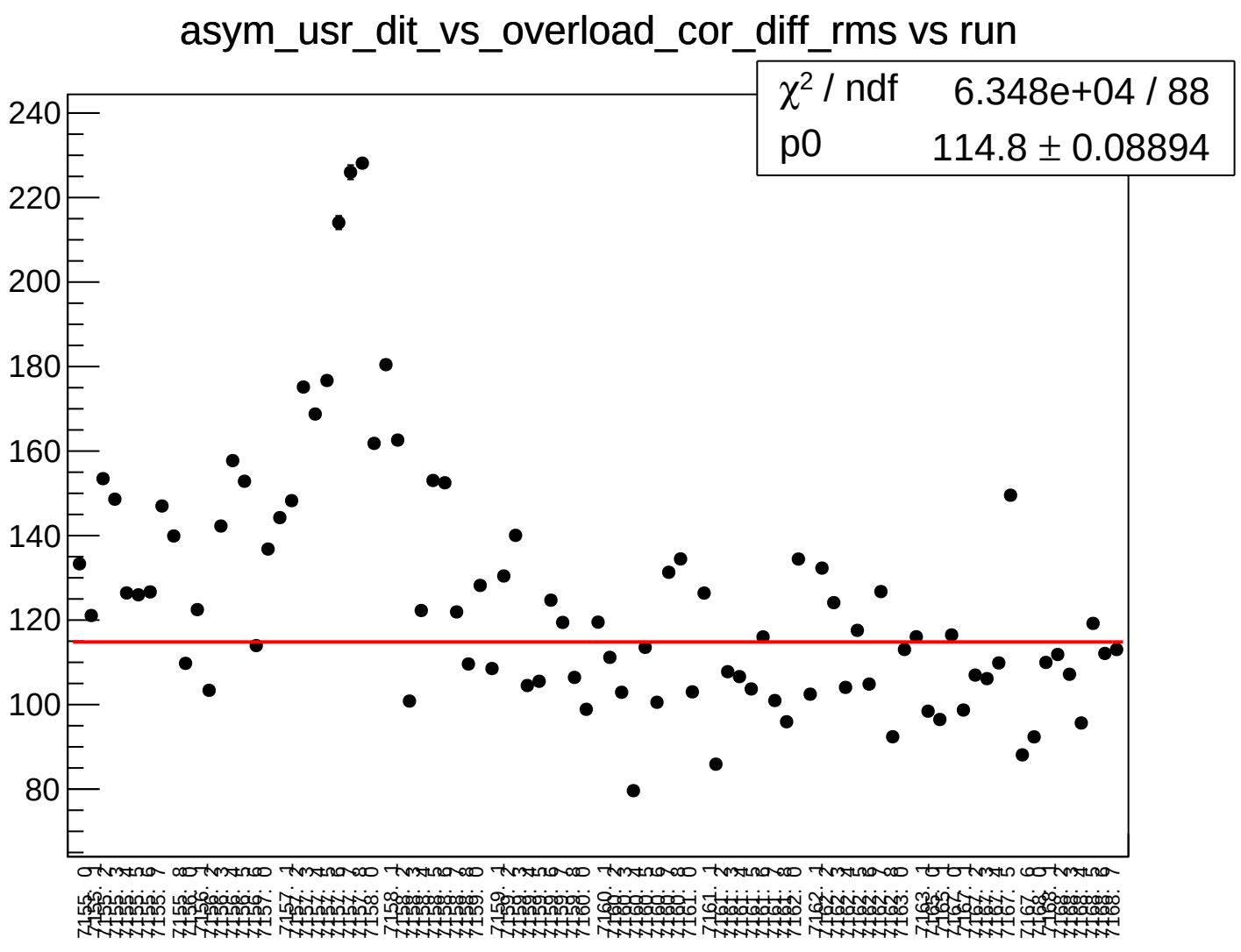

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.44 / 88
p0 0.1059 ± 0.09624
pull
Entries 89
Mean 1863
Std Dev 0

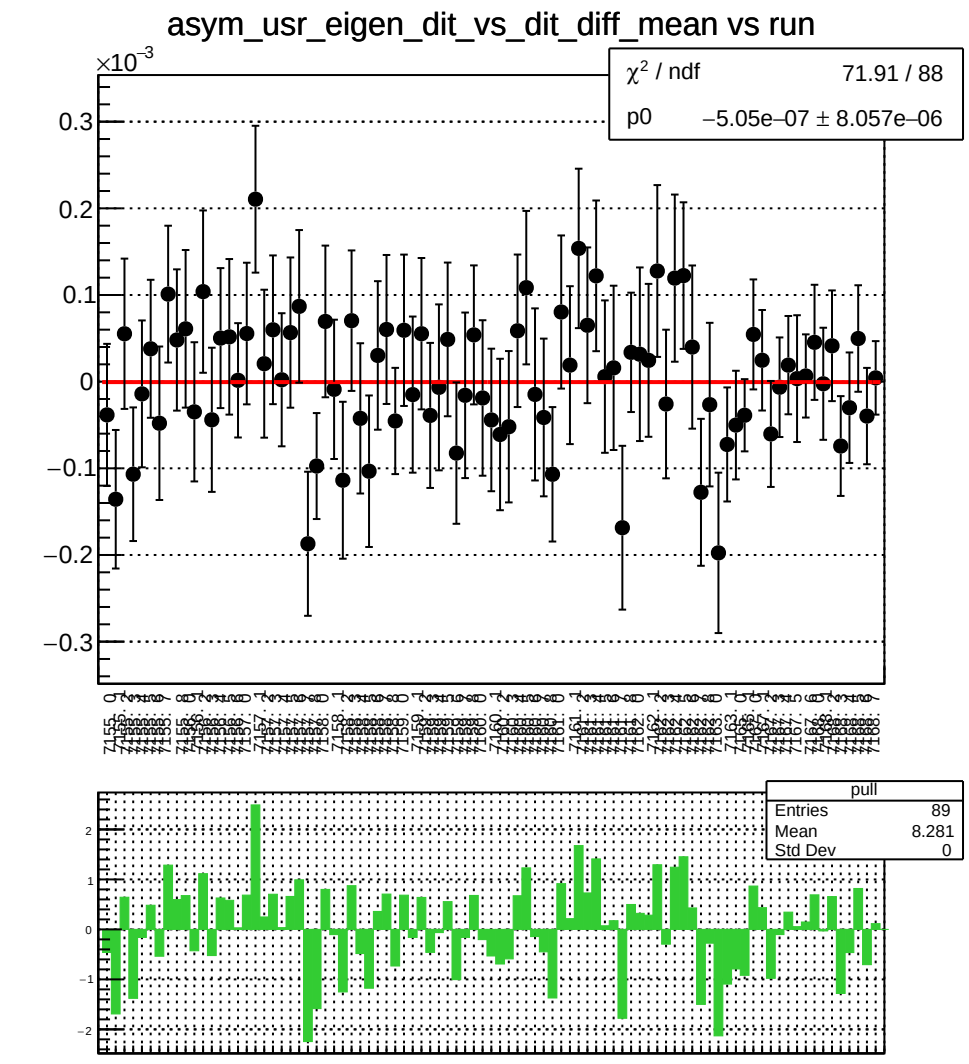

pull1D
Entries 89
Mean 0.002111
Std Dev 0.9145

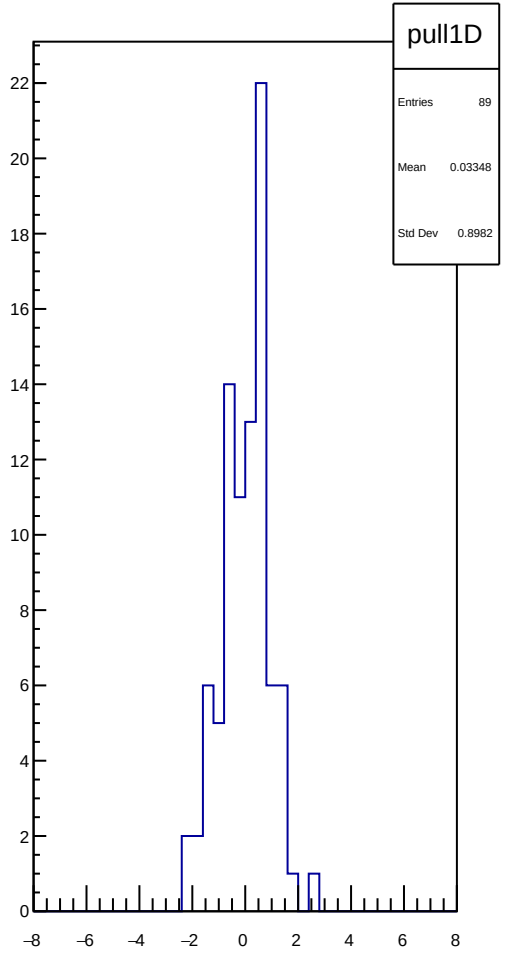

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 88
p0 86.87 ± 0.06805
220
200
180
160
140
120
100
80
60

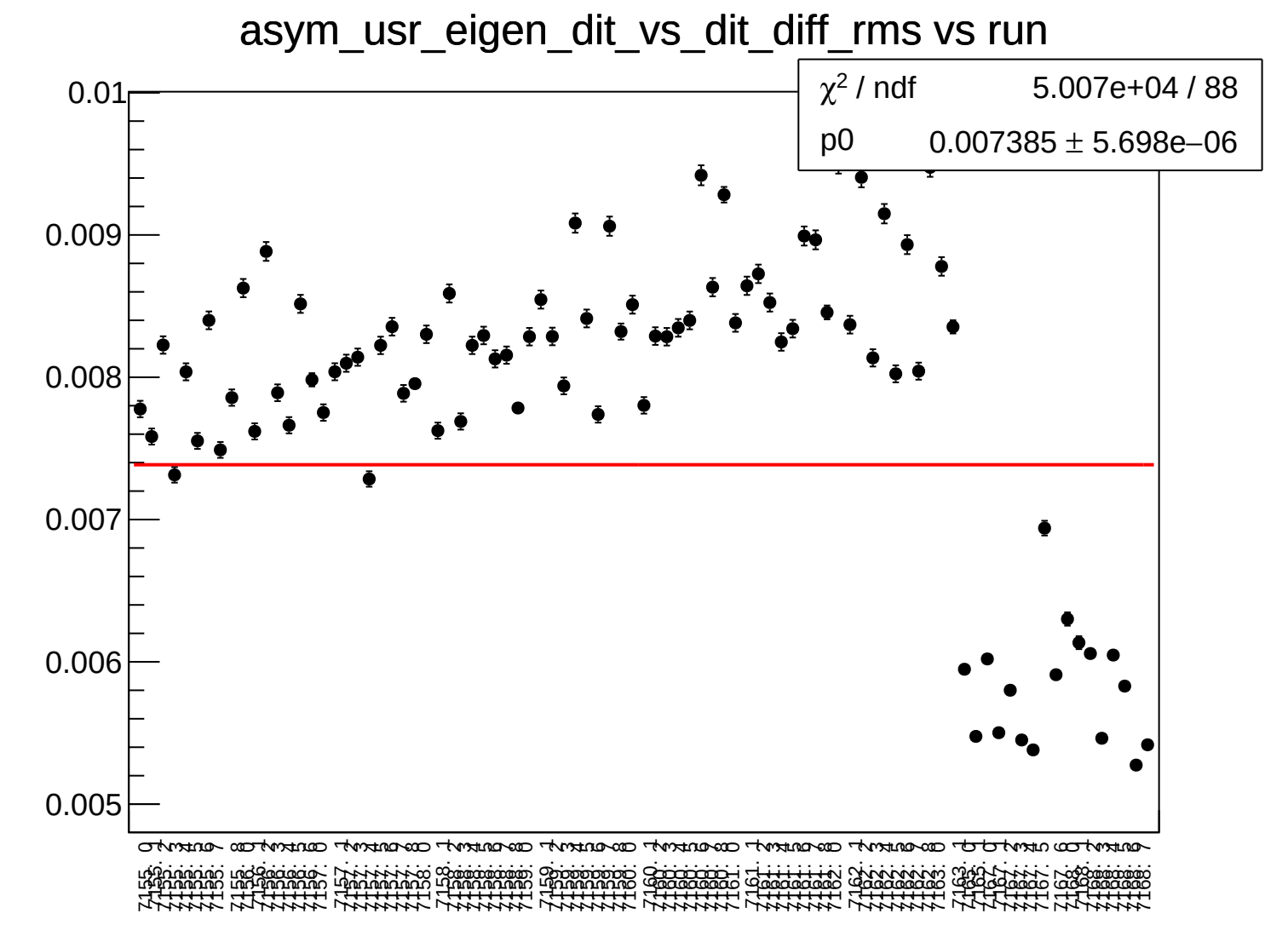

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.99 / 88
p0 0.08411 ± 0.1258
pull
Entries 89
Mean −245.1
Std Dev 0

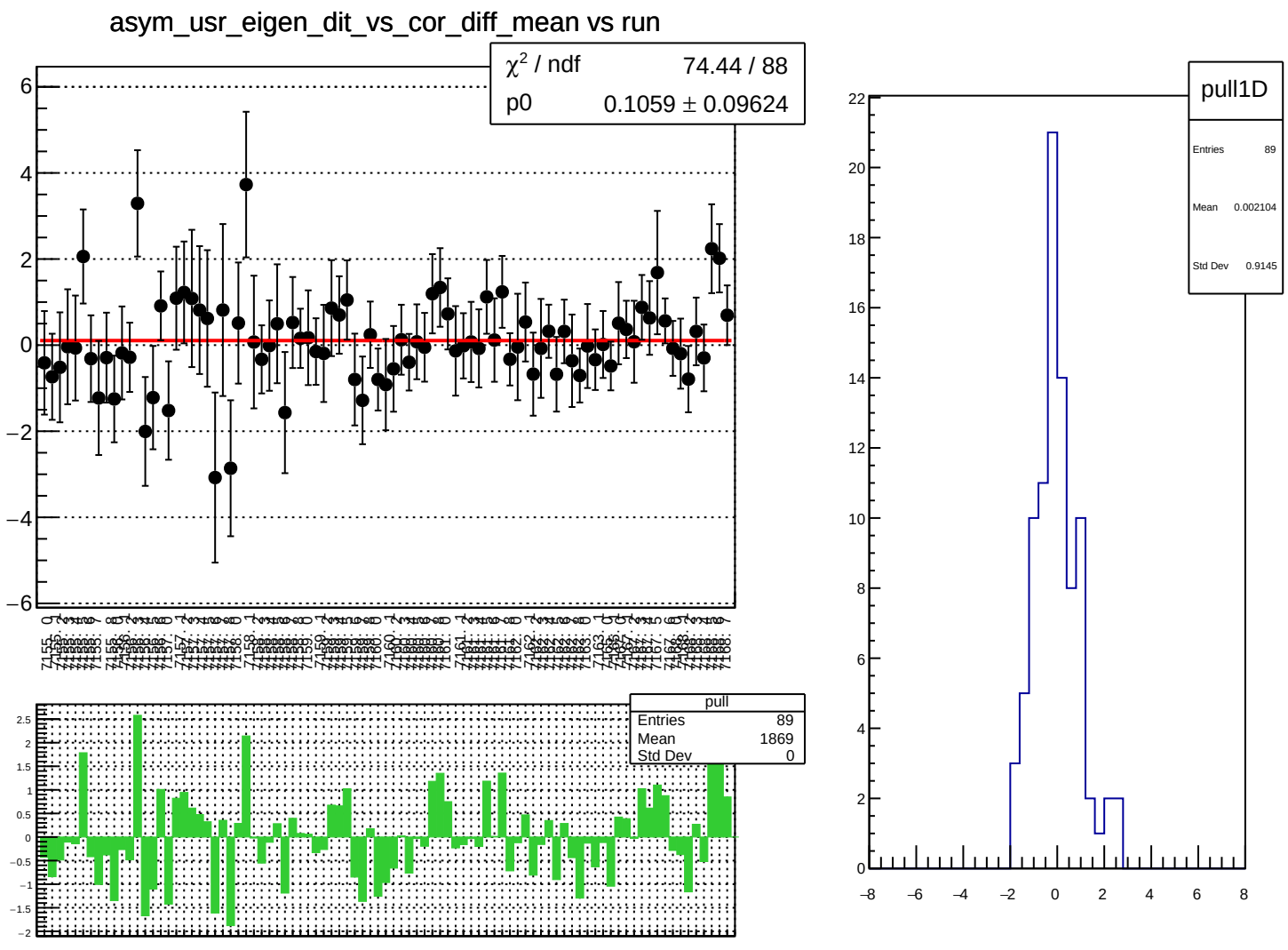

pull1D
Entries 89
Mean −0.01301
Std Dev 1.011

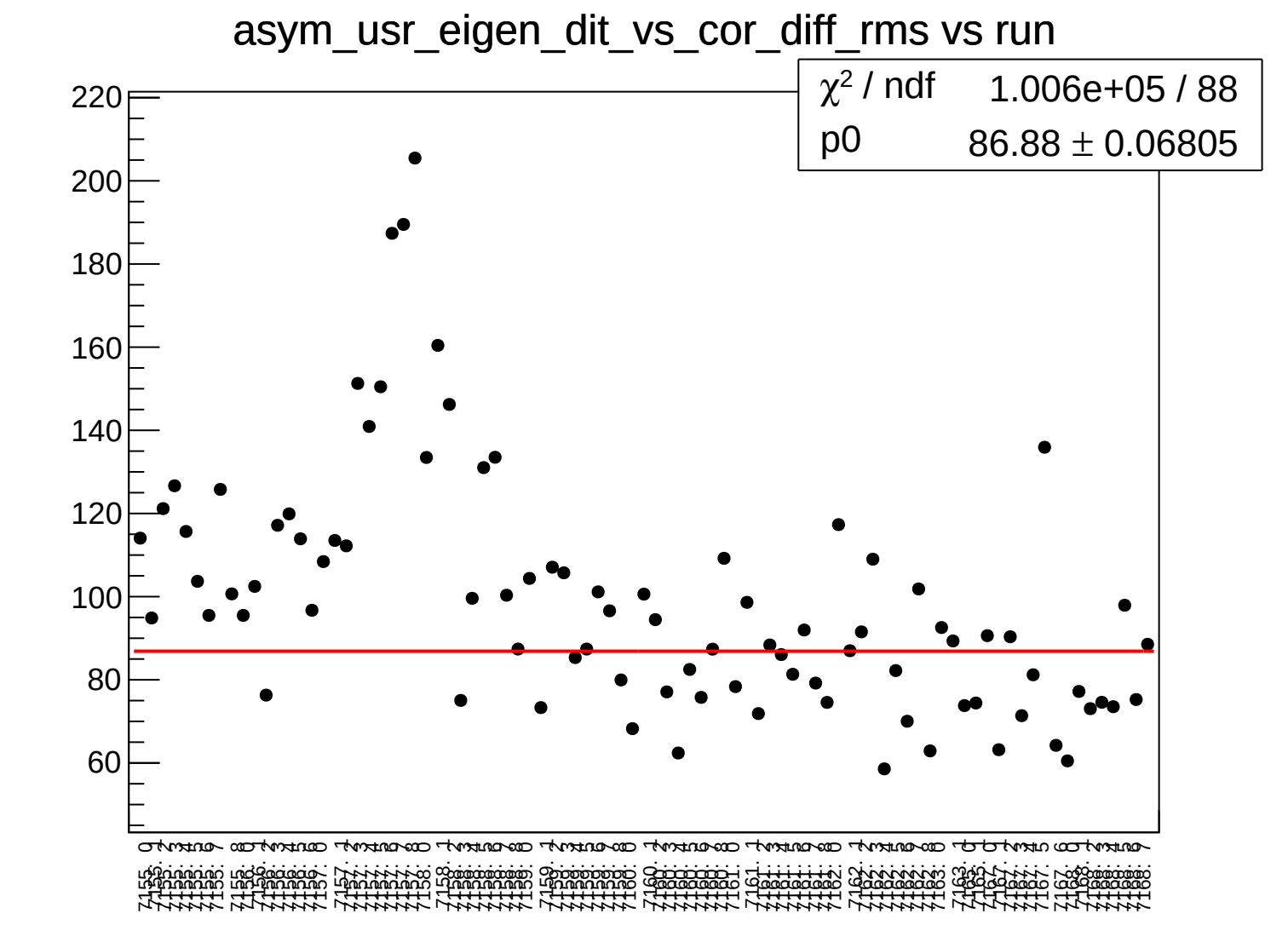

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.348e+04 / 88
p0 114.8 ± 0.08894
240
220
200
180
160
140
120
100
80

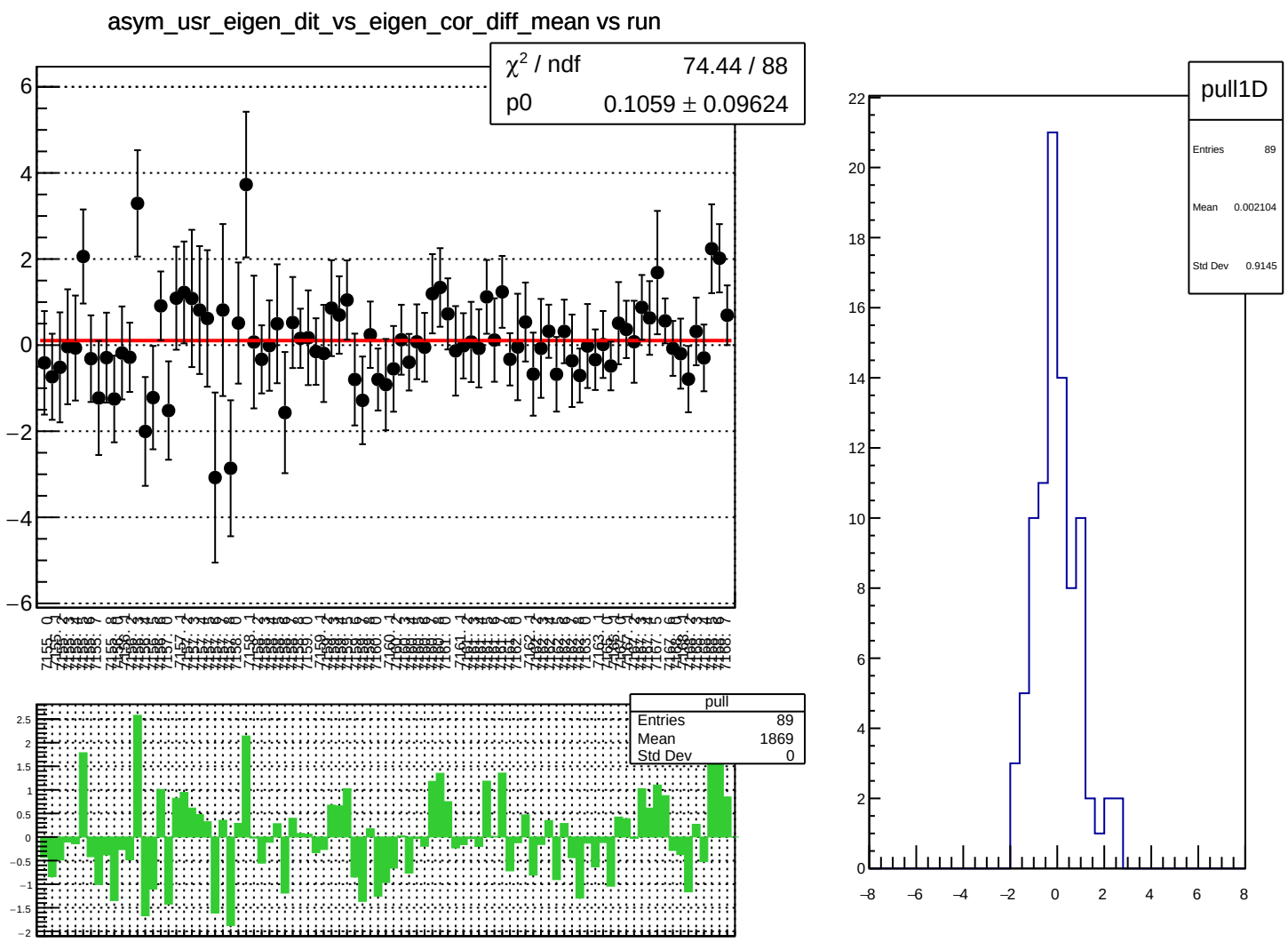

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.91 / 88
p0 −5.05e−07 ± 8.057e−06
pull
Entries 89
Mean 8.281
Std Dev 0

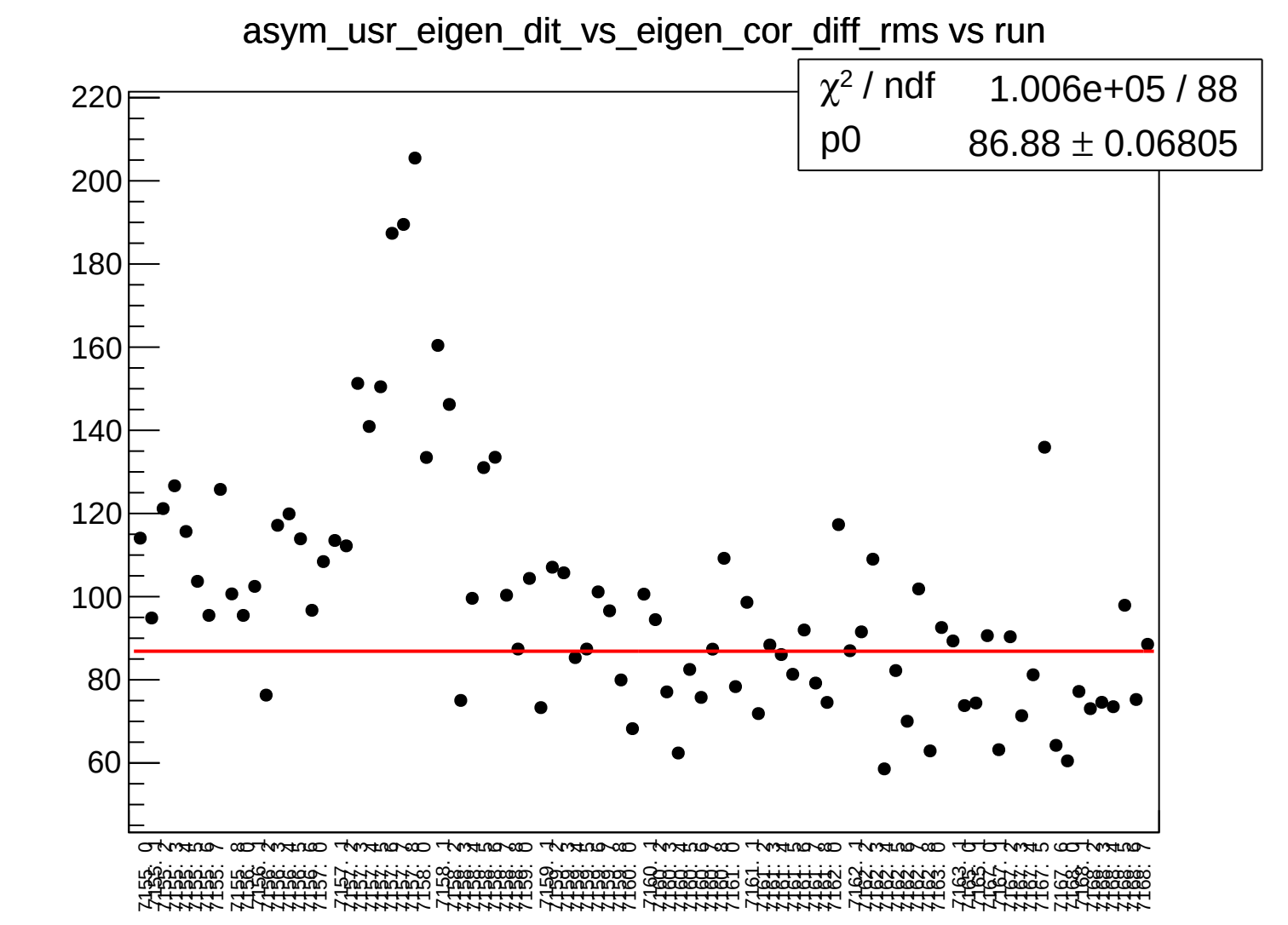

pull1D
Entries 89
Mean 0.03348
Std Dev 0.8982

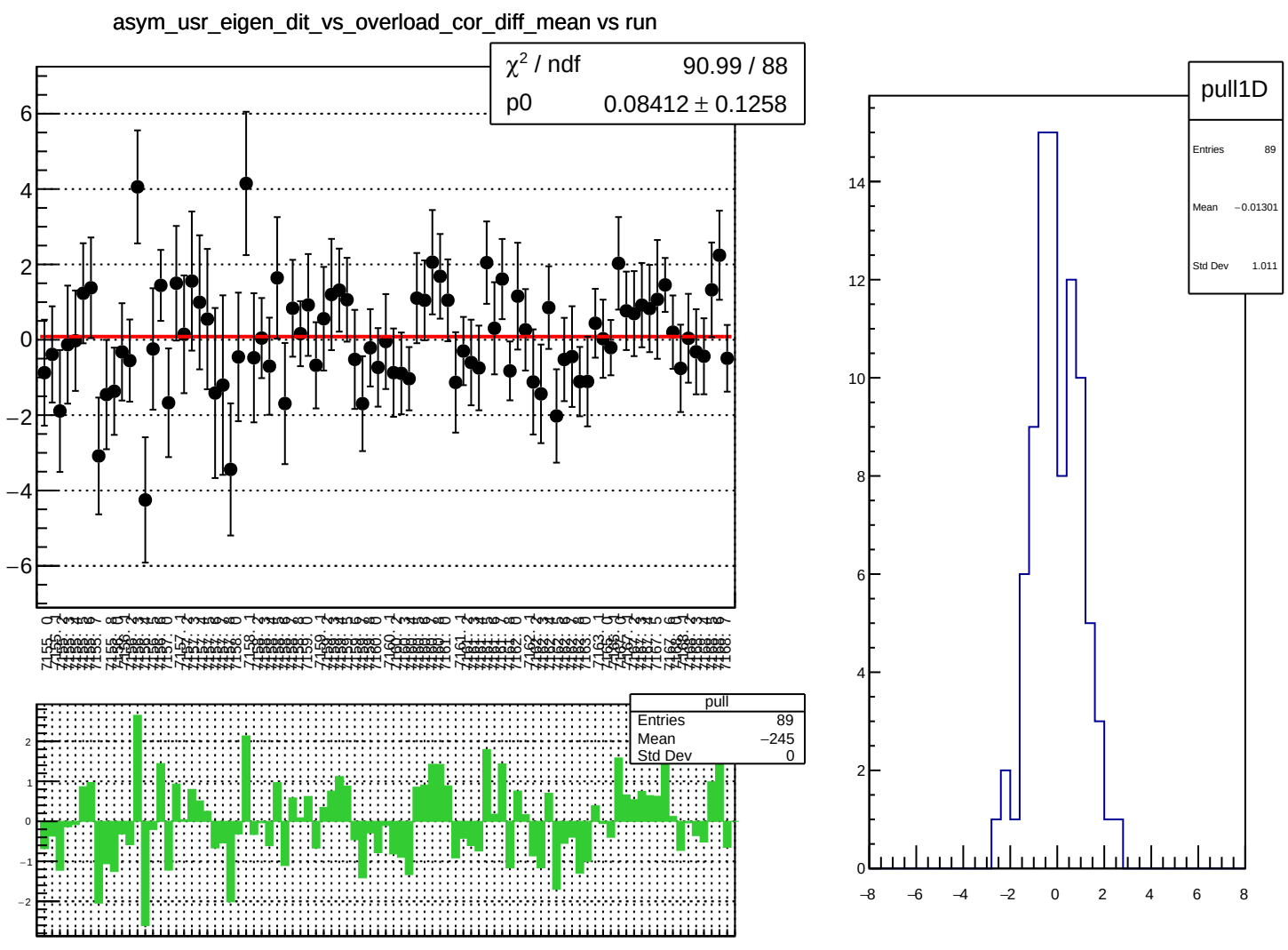

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.007e+04 / 88
p0 0.007385 ± 5.698e−06
0.01
0.009
0.008
0.007
0.006
0.005

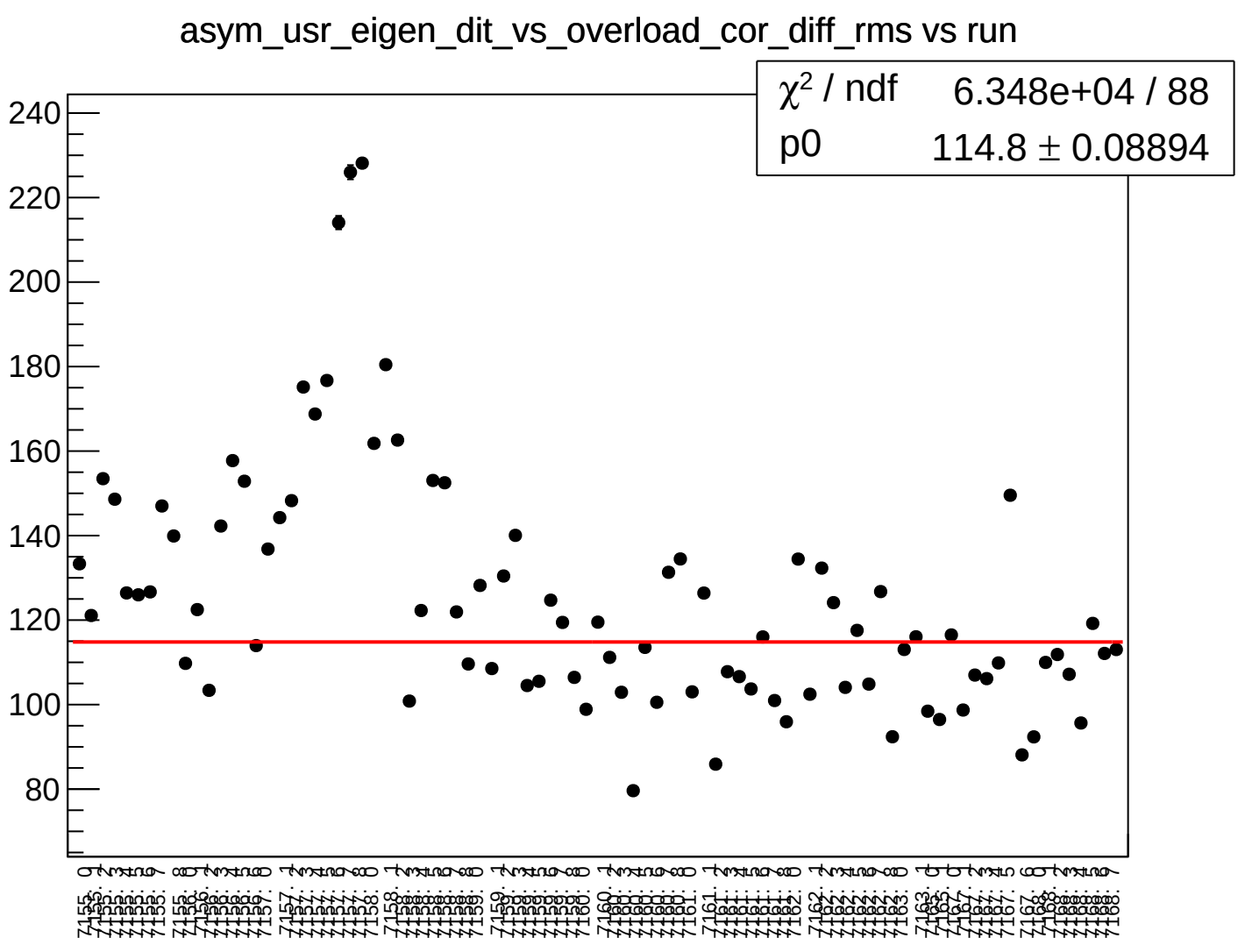

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.44 / 88
p0 0.1059 ± 0.09624
pull
Entries 89
Mean 1869
Std Dev 0
pull1D
Entries 89
Mean 0.002104
Std Dev 0.9145

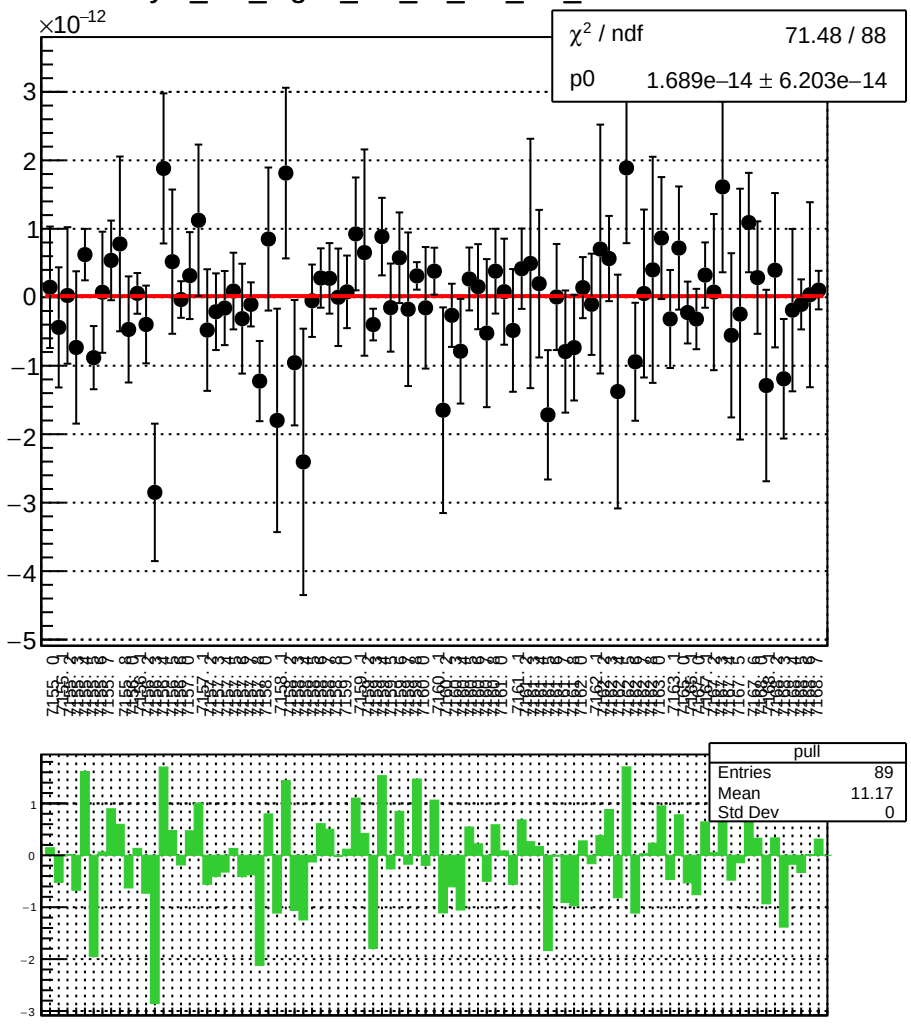

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 88
p0 86.88 ± 0.06805
220
200
180
160
140
120
100
80
60

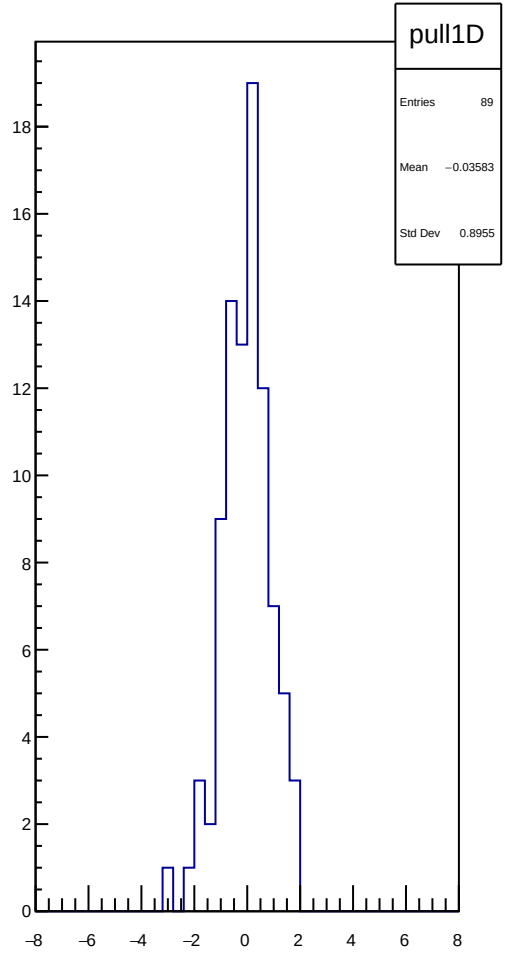

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.44 / 88
p0 0.1059 ± 0.09624
pull
Entries 89
Mean 1869
Std Dev 0
pull1D
Entries 89
Mean 0.002104
Std Dev 0.9145

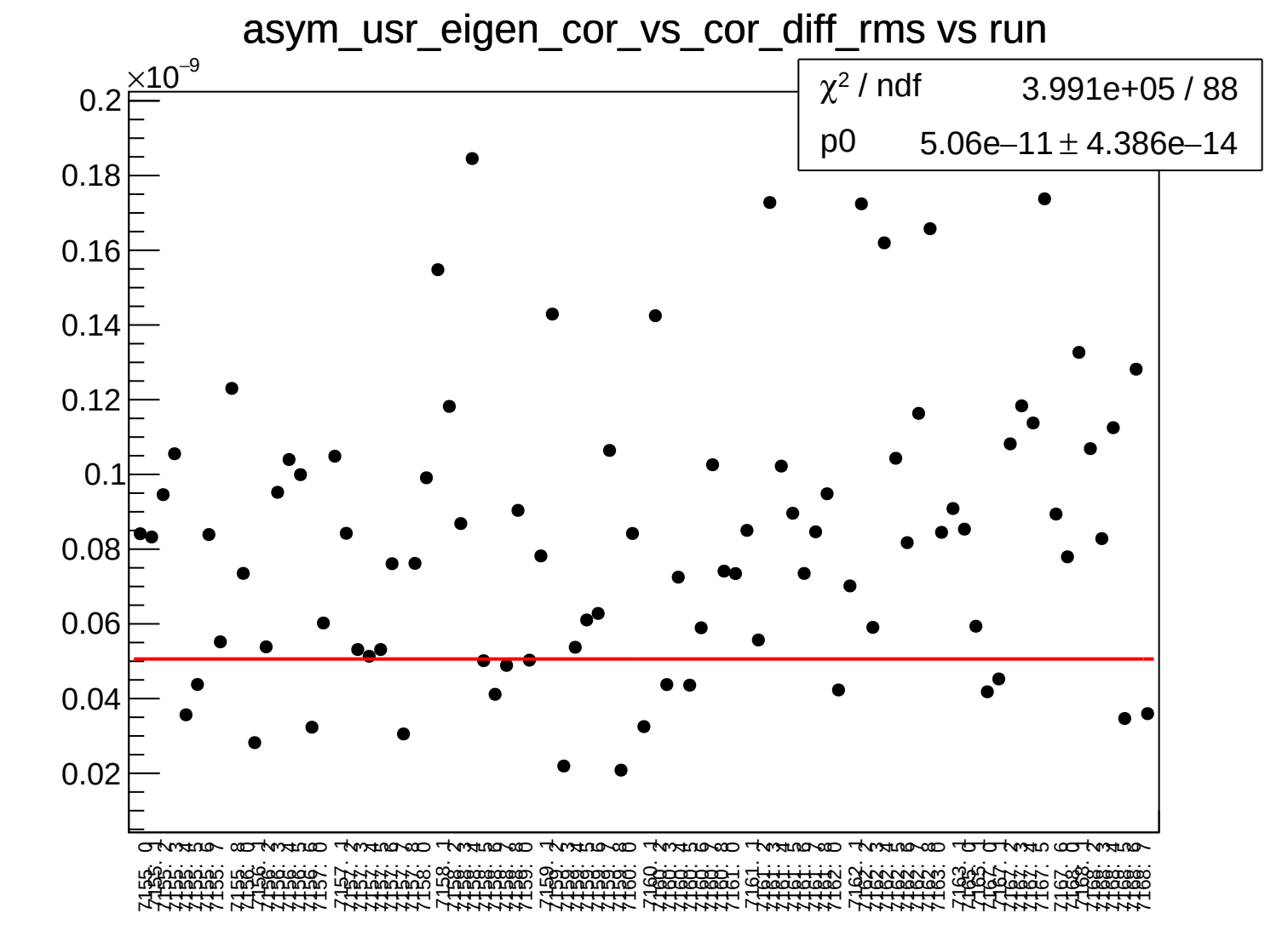

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.006e+05 / 88
p0 86.88 ± 0.06805
220
200
180
160
140
120
100
80
60

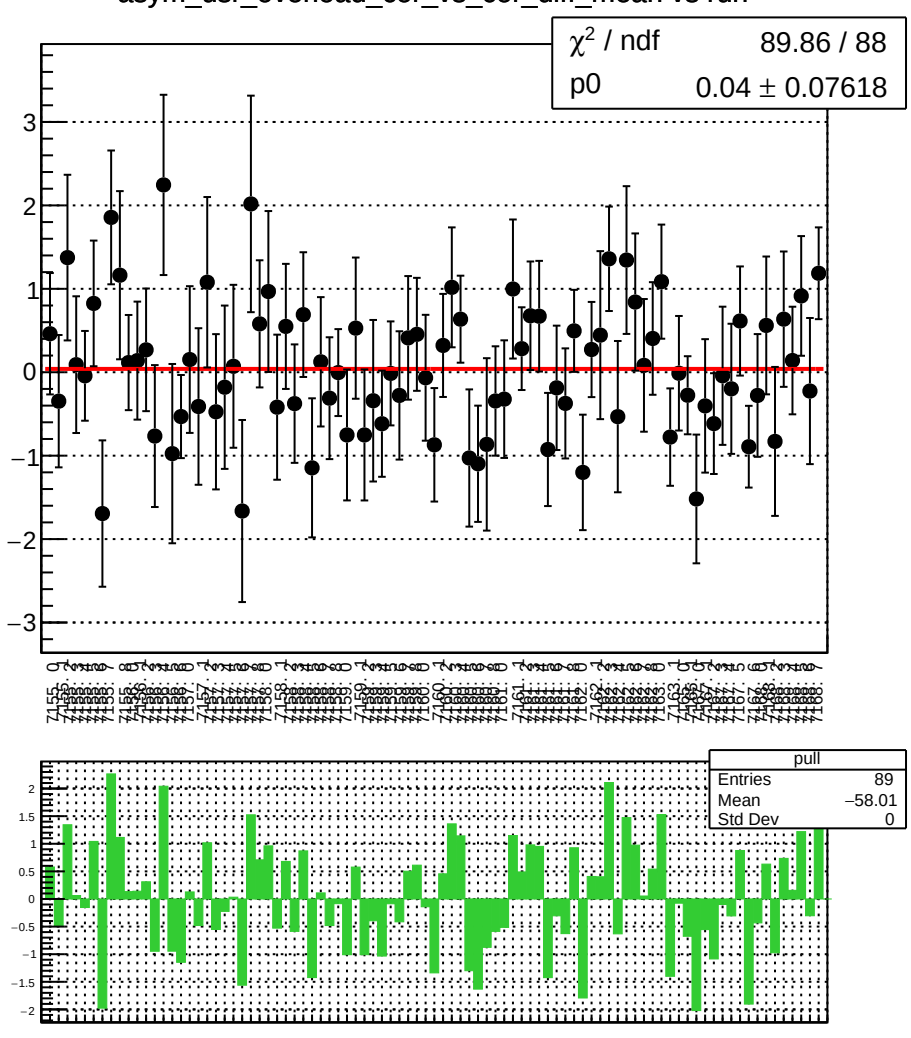

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 90.99 / 88
p0 0.08412 ± 0.1258
pull
Entries 89
Mean −245
Std Dev 0
pull1D
Entries 89
Mean −0.01301
Std Dev 1.011

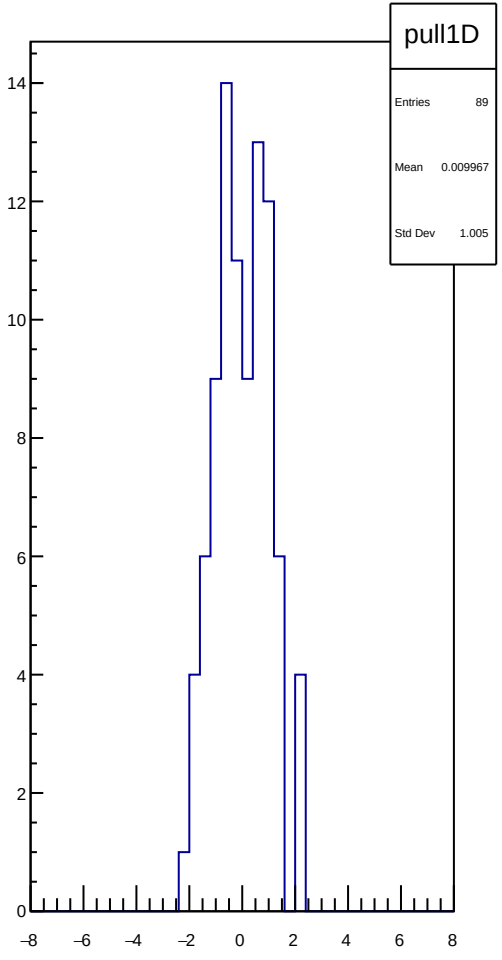

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 6.348e+04 / 88
p0 114.8 ± 0.08894
240
220
200
180
160
140
120
100
80

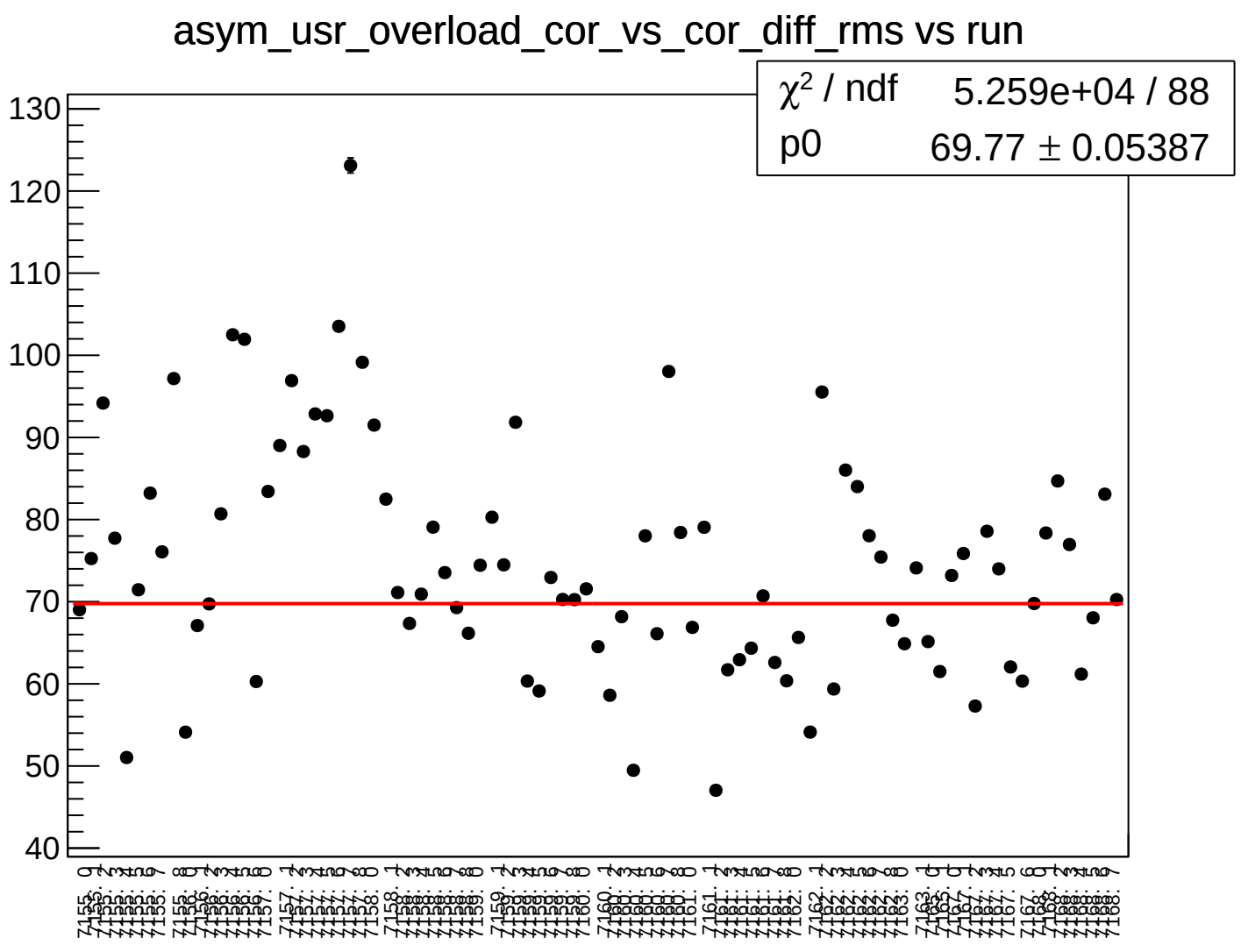

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 71.48 / 88
p0 1.689e−14 ± 6.203e−14
pull
Entries 89
Mean 11.17
Std Dev 0

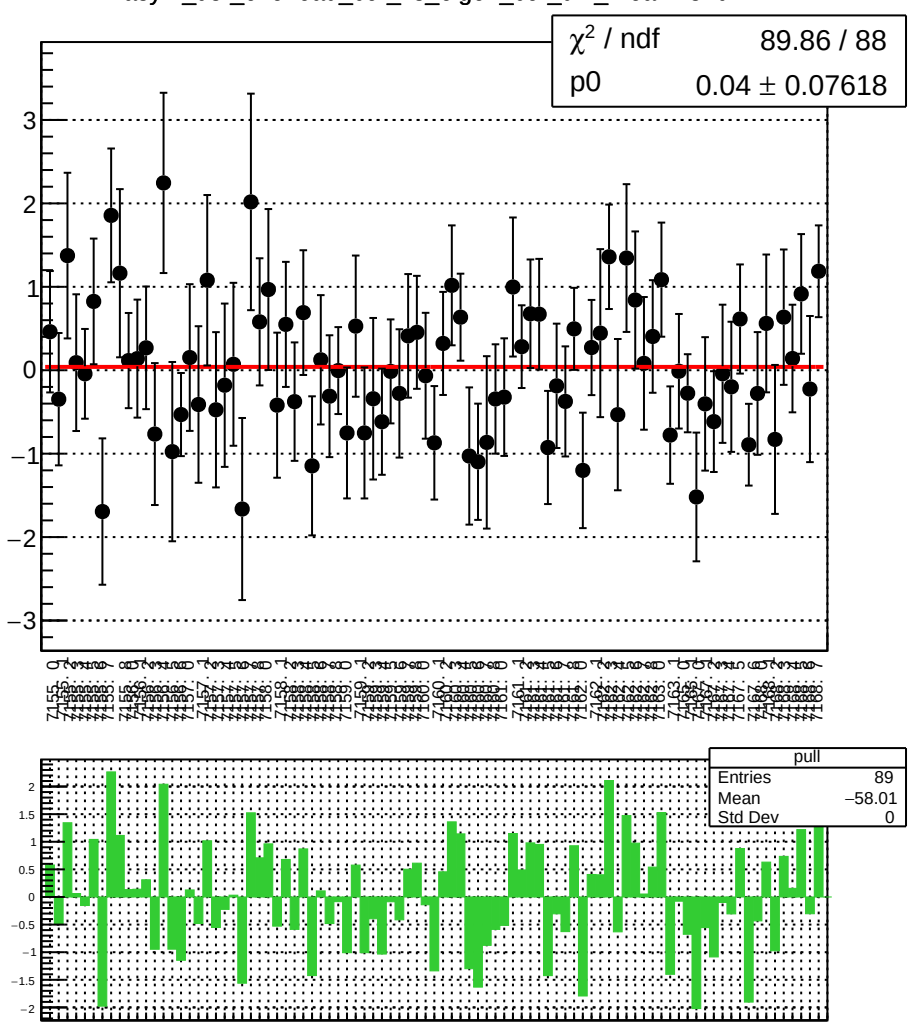

pull1D
Entries 89
Mean −0.03583
Std Dev 0.8955

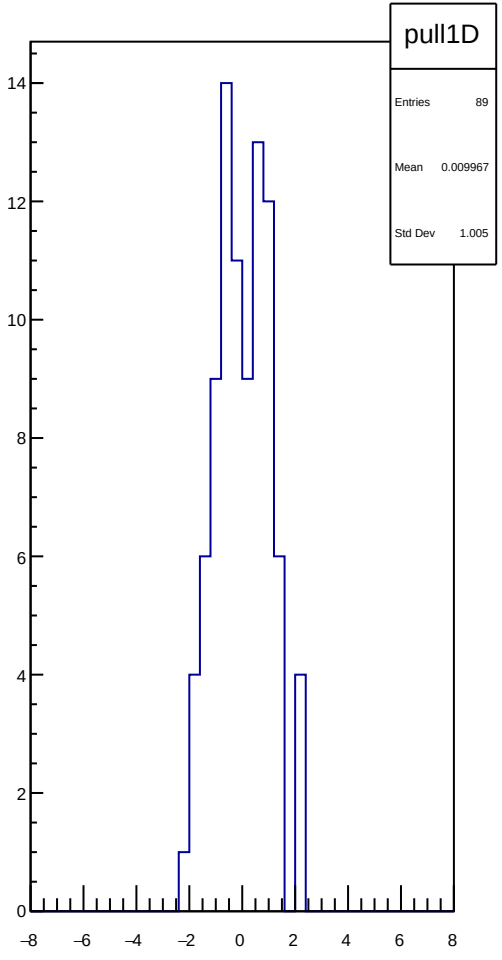

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.991e+05 / 88
p0 5.06e−11 ± 4.386e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

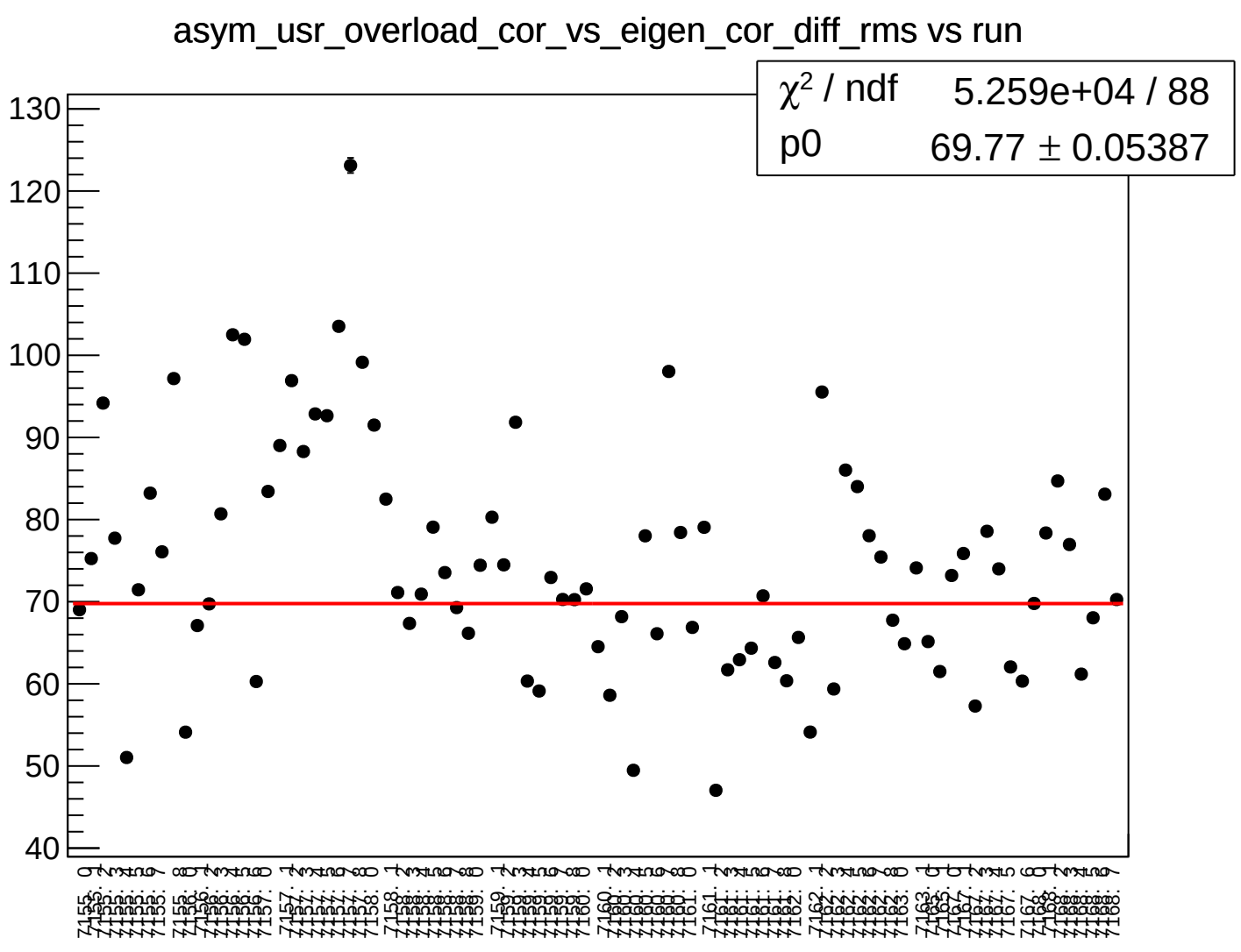

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 89.86 / 88
p0 0.04 ± 0.07618
pull
Entries 89
Mean −58.01
Std Dev 0

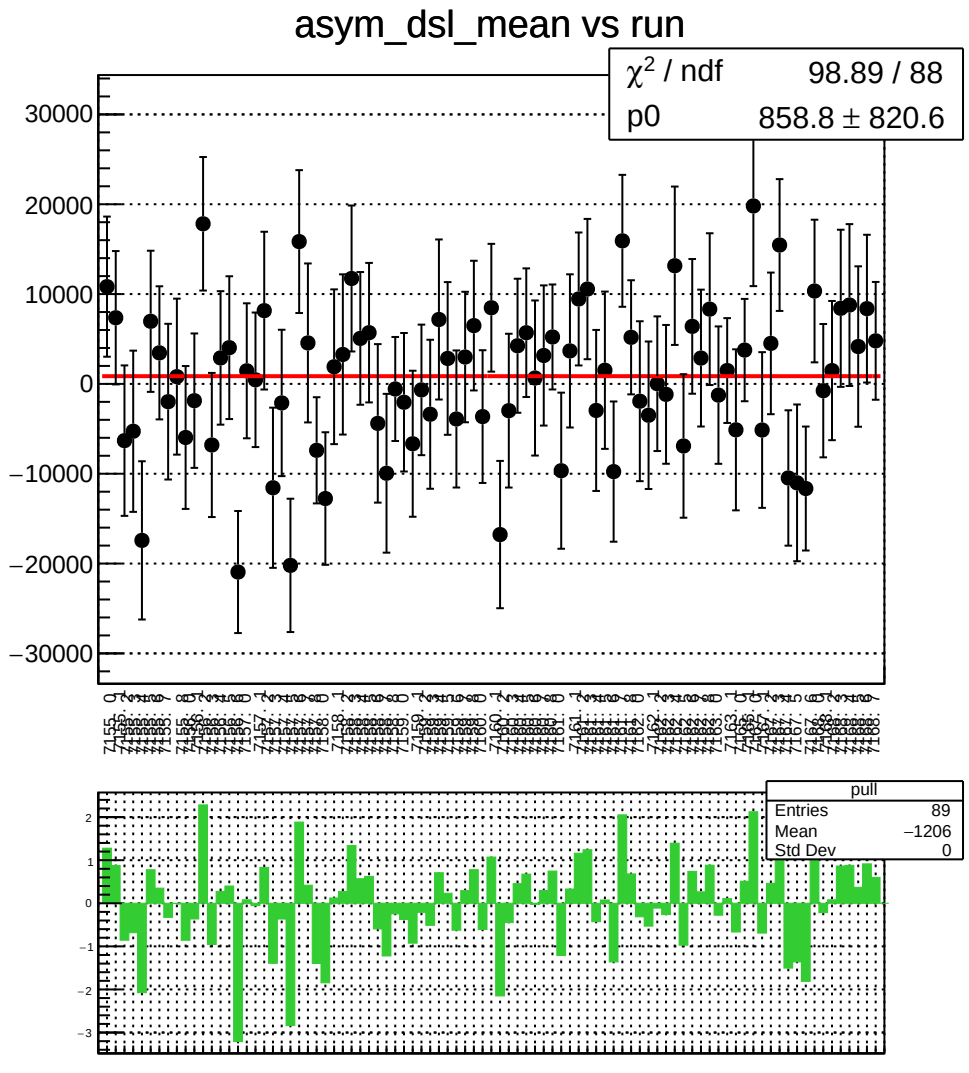

pull1D
Entries 89
Mean 0.009967
Std Dev 1.005

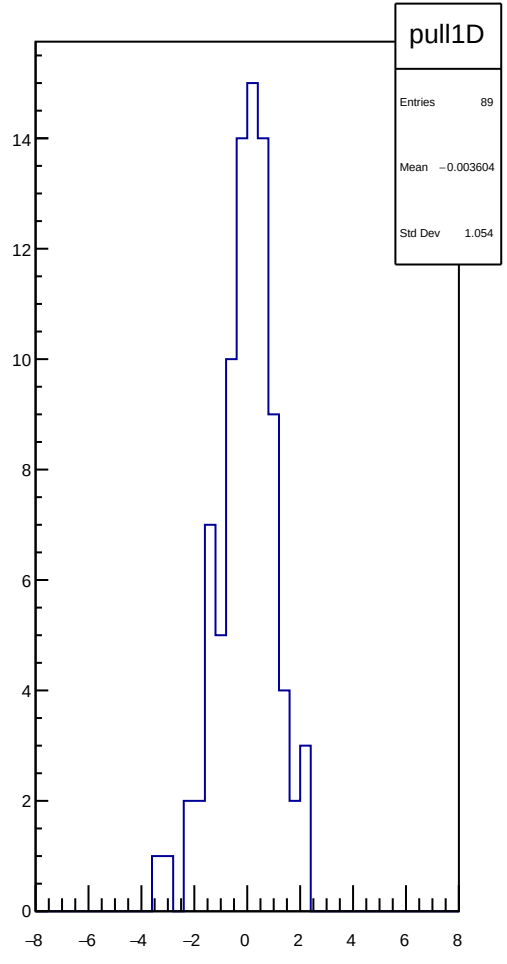

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.259e+04 / 88
p0 69.77 ± 0.05387
130
120
110
100
90
80
70
60
50
40

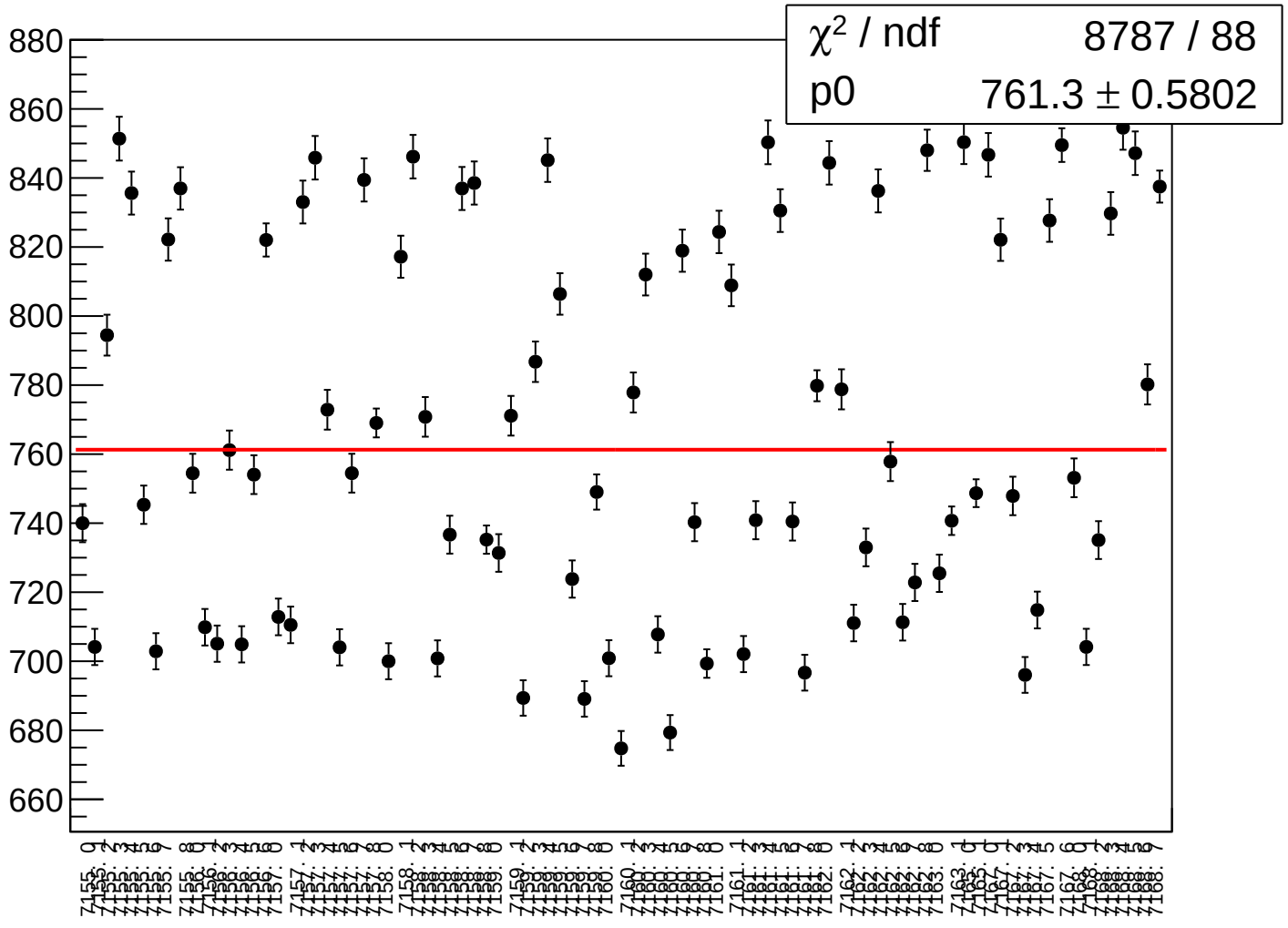

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.86 / 88
p0 0.04 ± 0.07618
pull
Entries 89
Mean −58.01
Std Dev 0

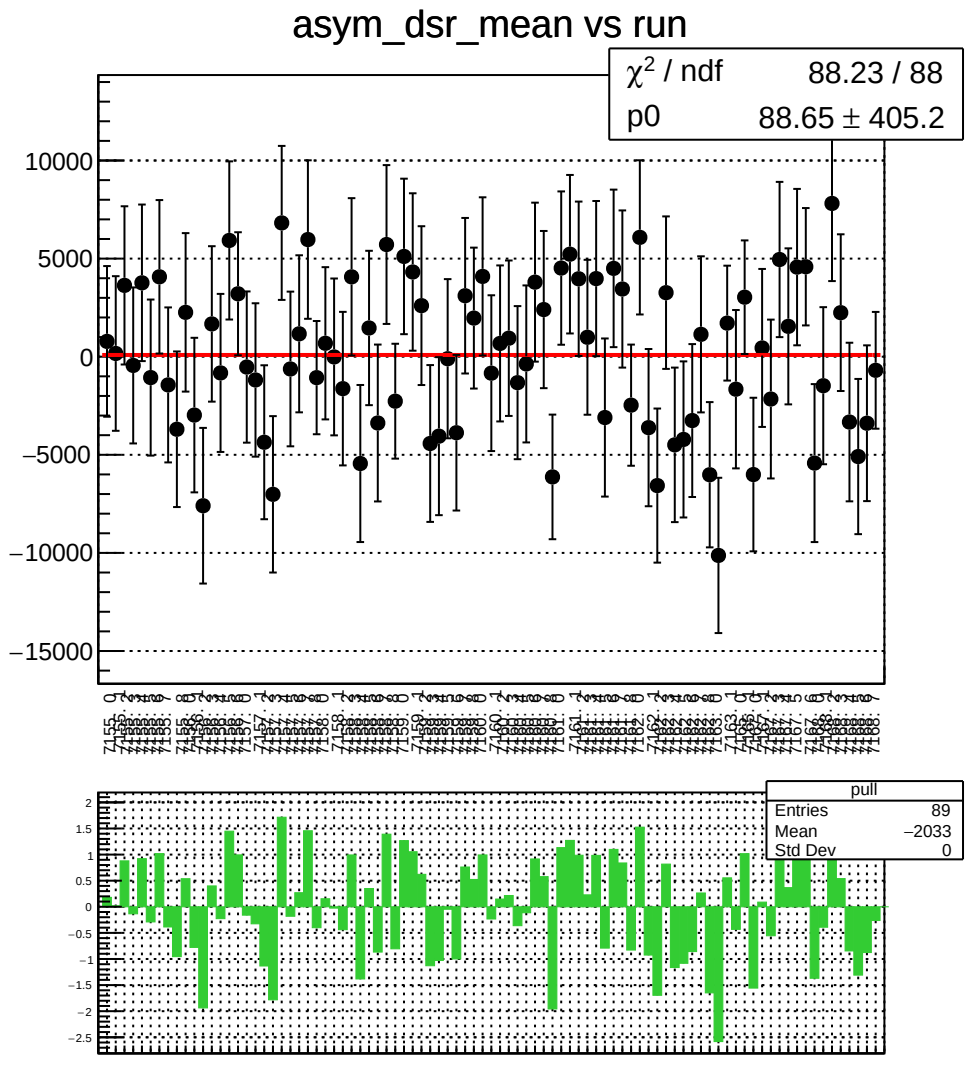

pull1D
Entries 89
Mean 0.009967
Std Dev 1.005

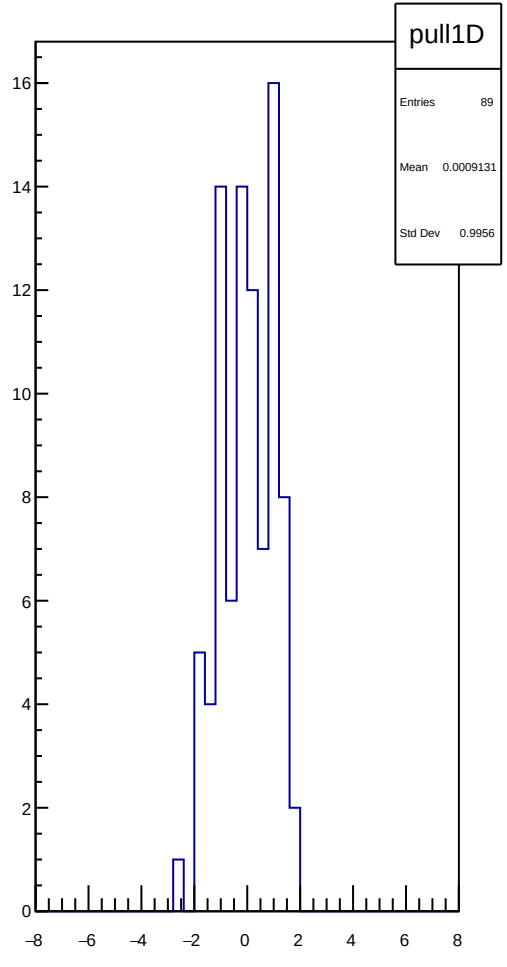

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.259e+04 / 88
p0 69.77 ± 0.05387
130
120
110
100
90
80
70
60
50
40

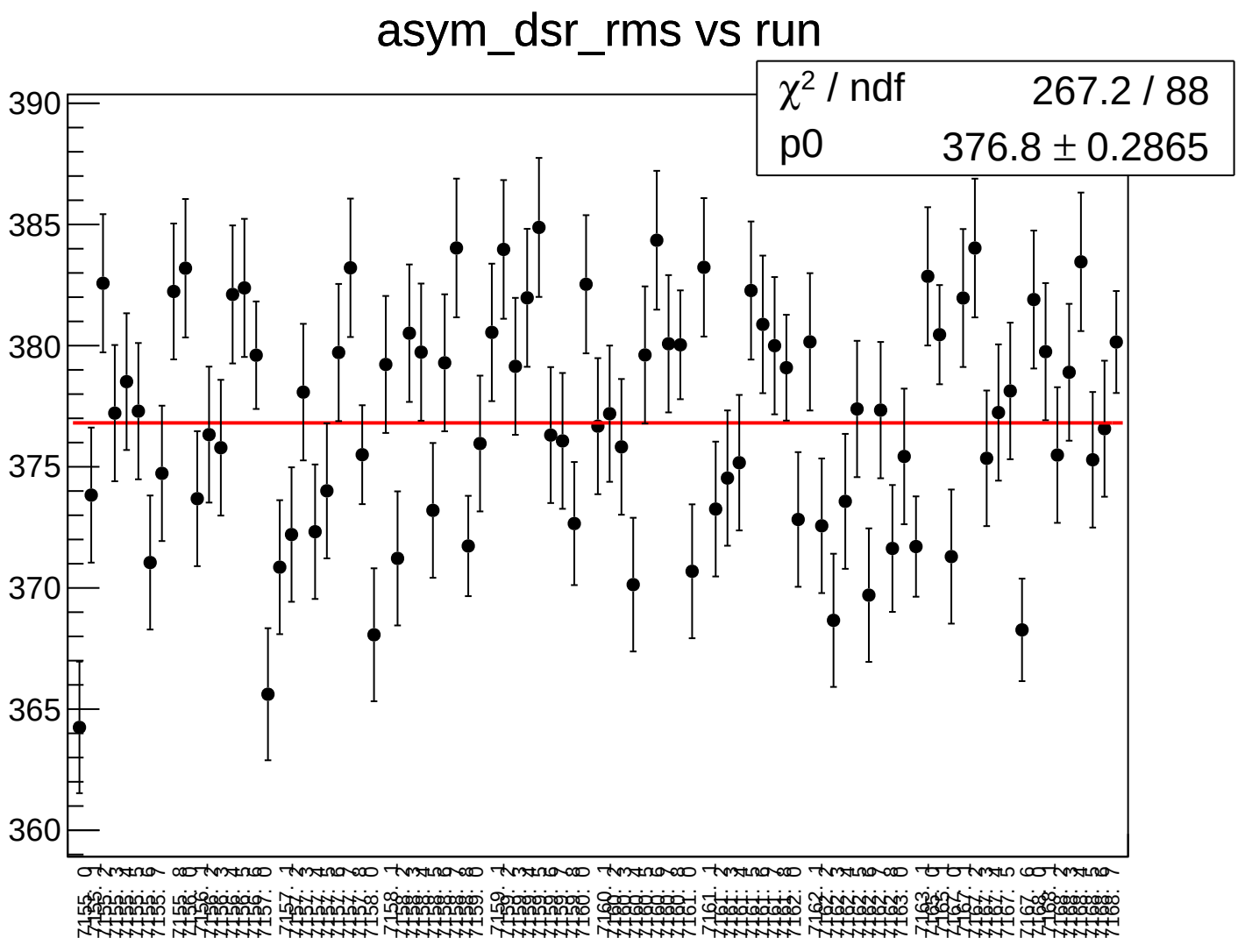

asym_dsl_mean vs run
χ² / ndf 98.89 / 88
p0 858.8 ± 820.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −1206
Std Dev 0
2
1
0
−1
−2
−3

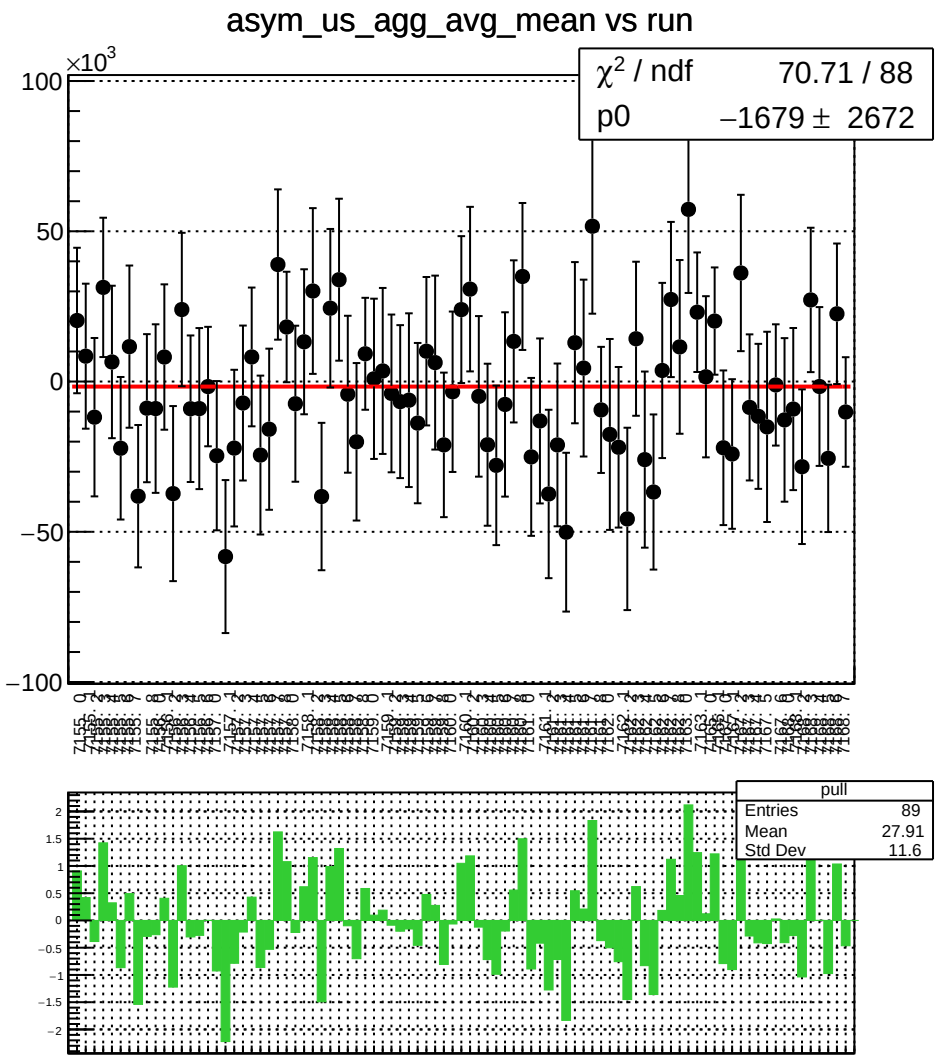

pull1D
Entries 89
Mean −0.003604
Std Dev 1.054
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

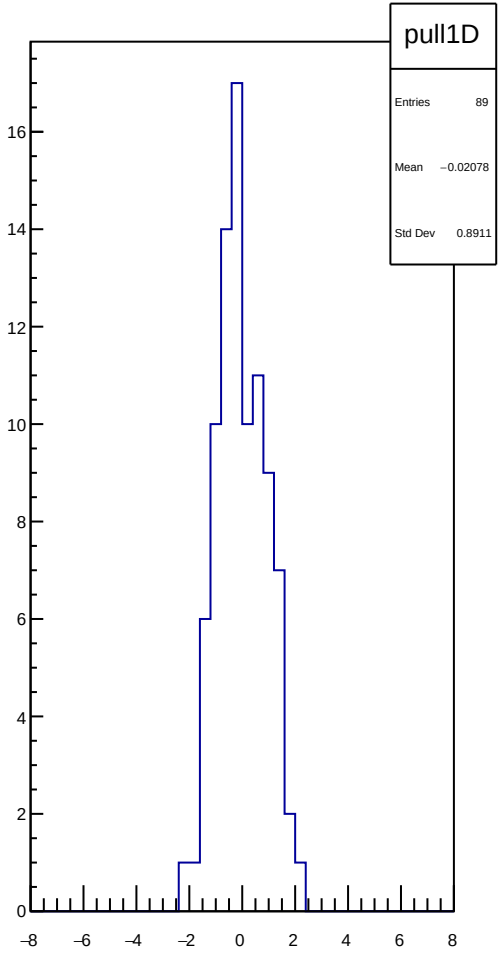

asym_dsl_rms vs run
χ² / ndf 8787 / 88
p0 761.3 ± 0.5802
880
860
840
820
800
780
760
740
720
700
680
660

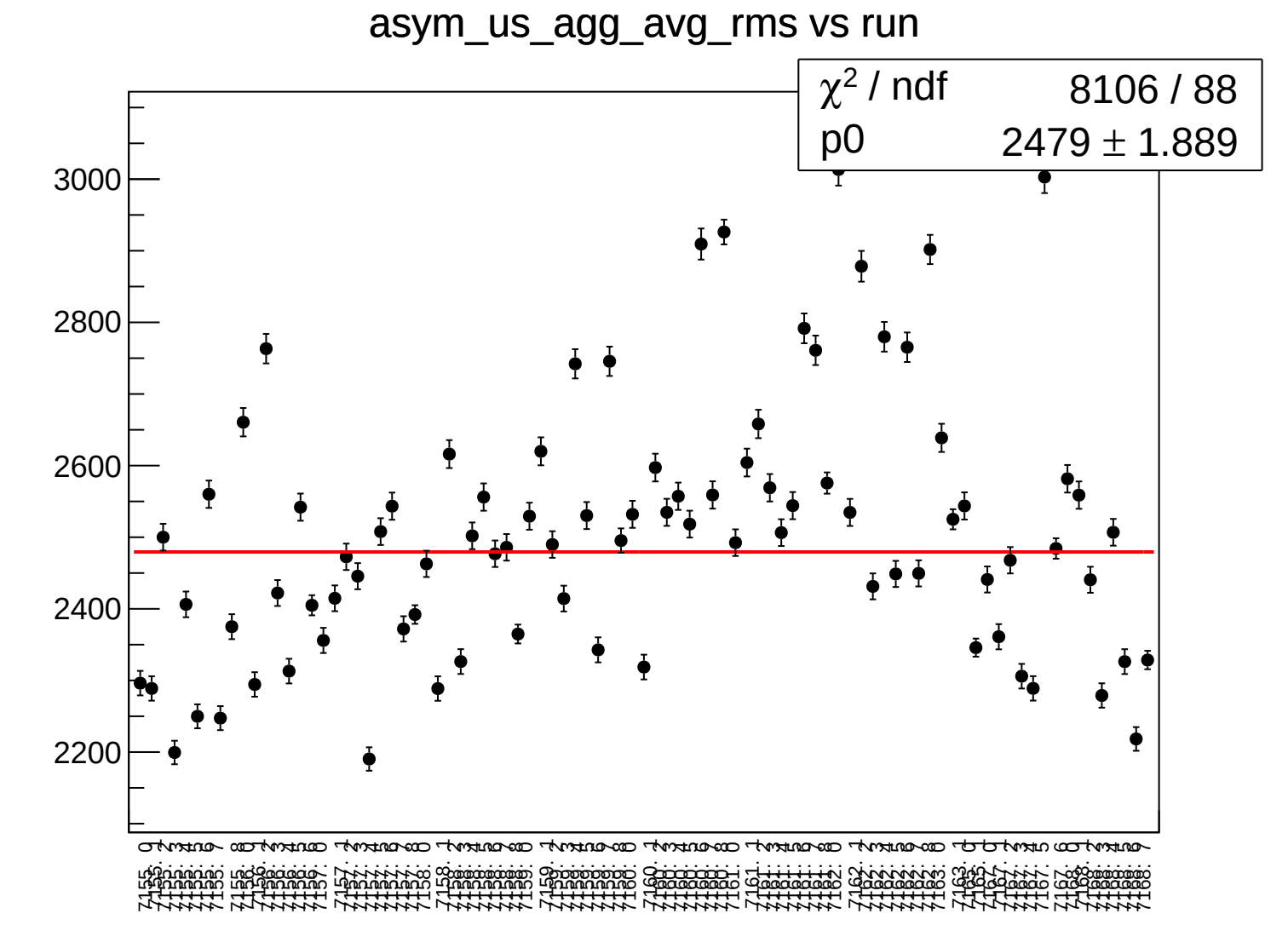

asym_dsr_mean vs run
χ² / ndf 88.23 / 88
p0 88.65 ± 405.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −2033
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

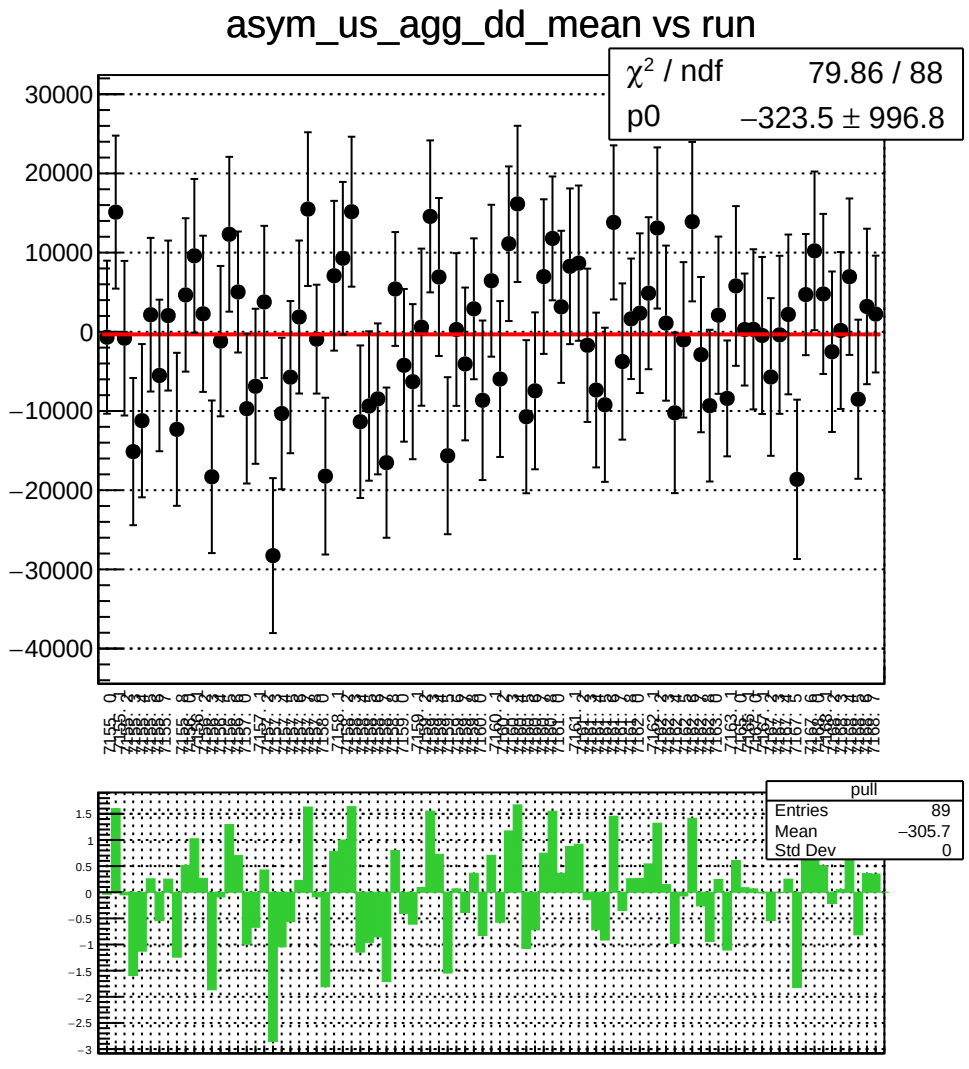

pull1D
Entries 89
Mean 0.0009131
Std Dev 0.9956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

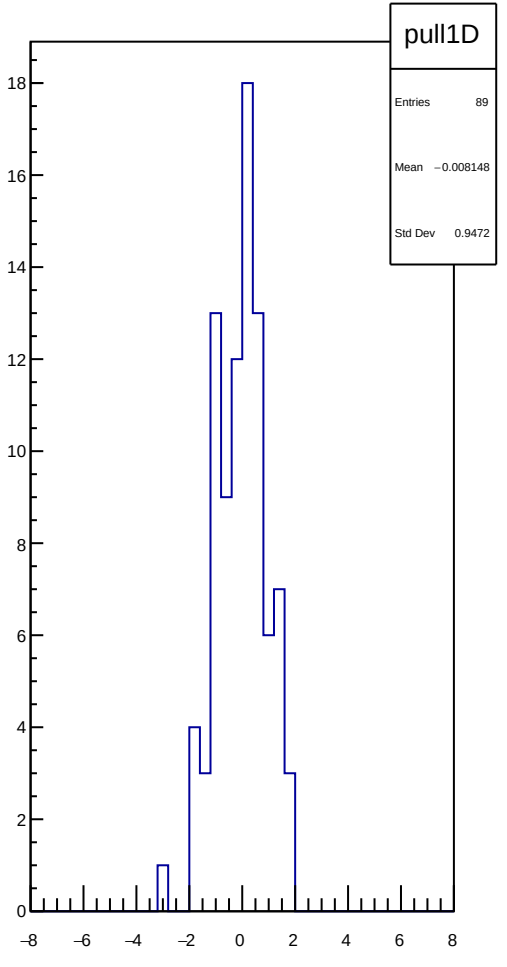

asym_dsr_rms vs run
χ² / ndf 267.2 / 88
p0 376.8 ± 0.2865
390
385
380
375
370
365
360

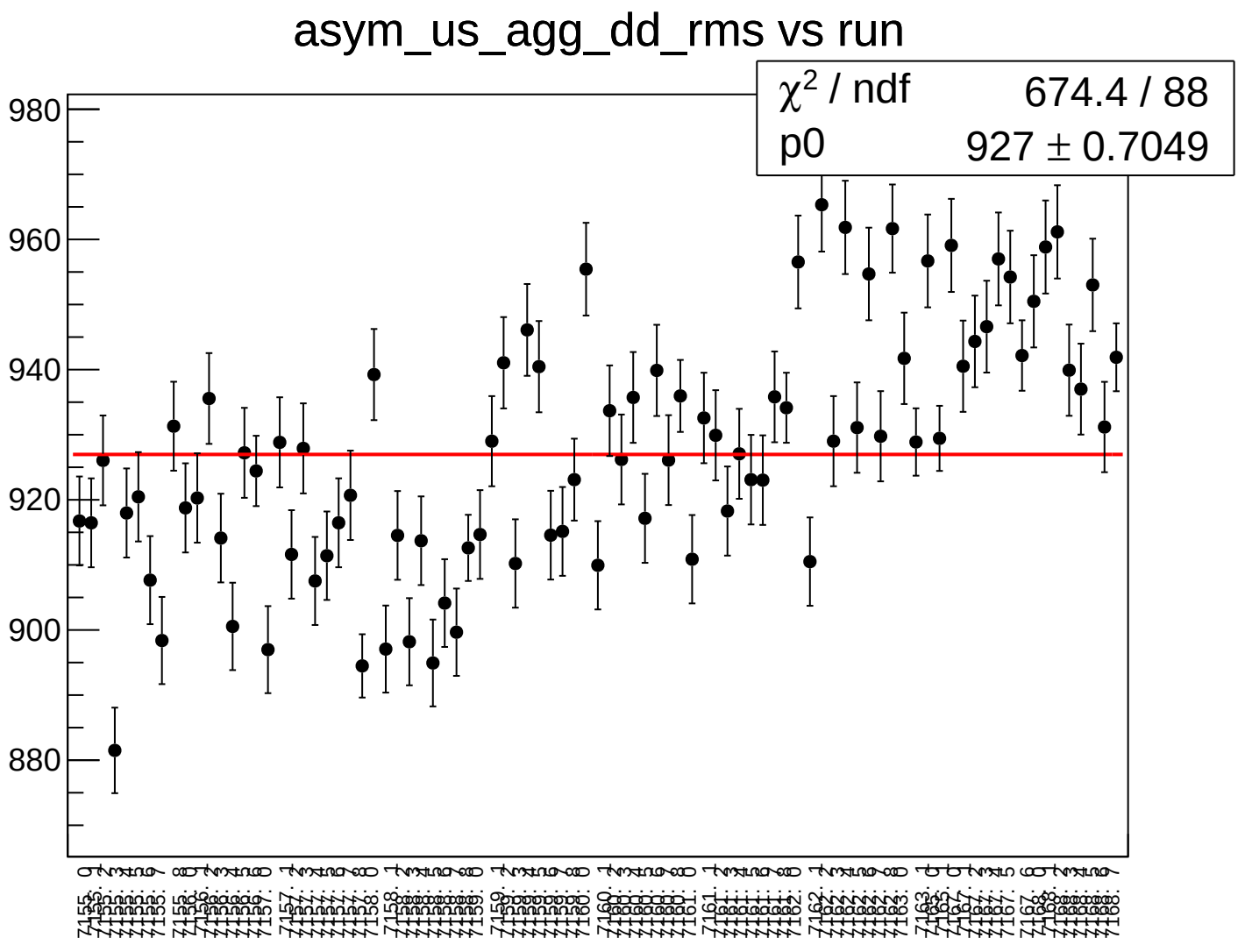

asym_us_agg_avg_mean vs run
×10^3
χ² / ndf 70.71 / 88
p0 −1679 ± 2672
pull
Entries 89
Mean 27.91
Std Dev 11.6

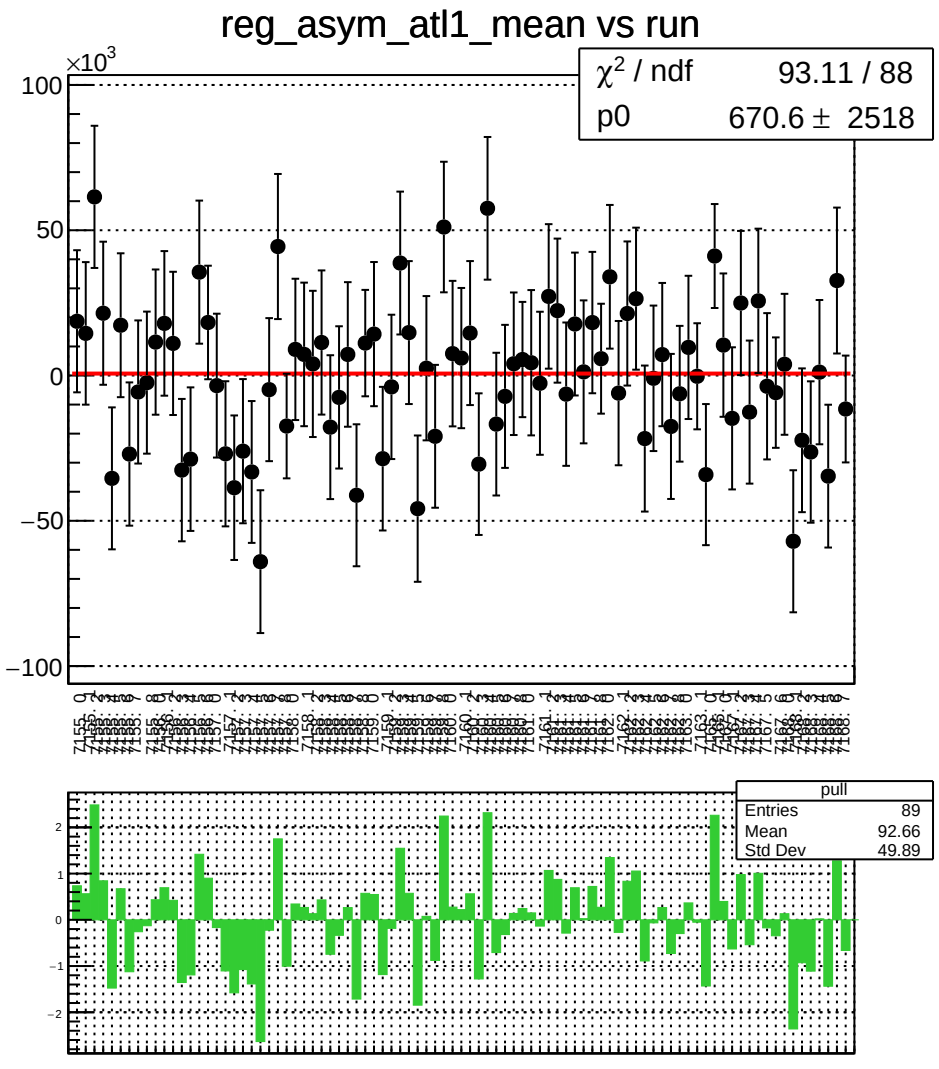

pull1D
Entries 89
Mean −0.02078
Std Dev 0.8911

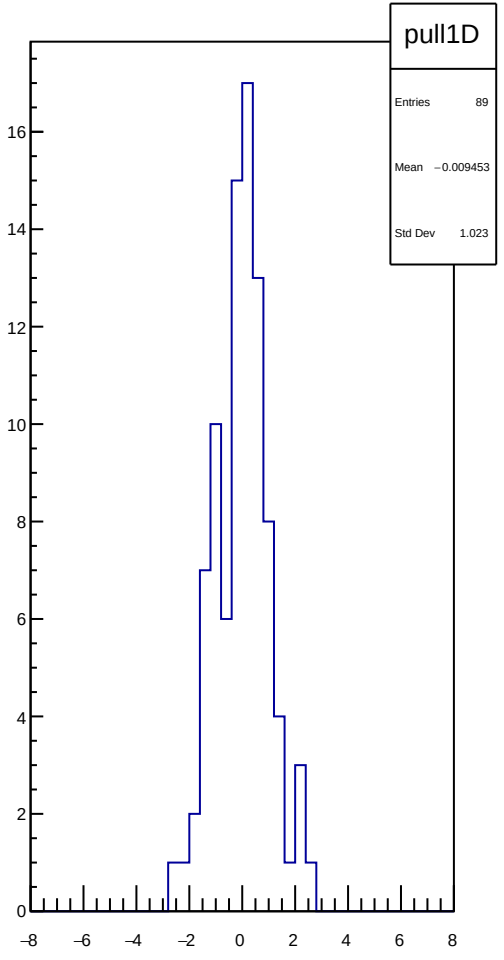

asym_us_agg_avg_rms vs run
χ² / ndf 8106 / 88
p0 2479 ± 1.889
3000
2800
2600
2400
2200

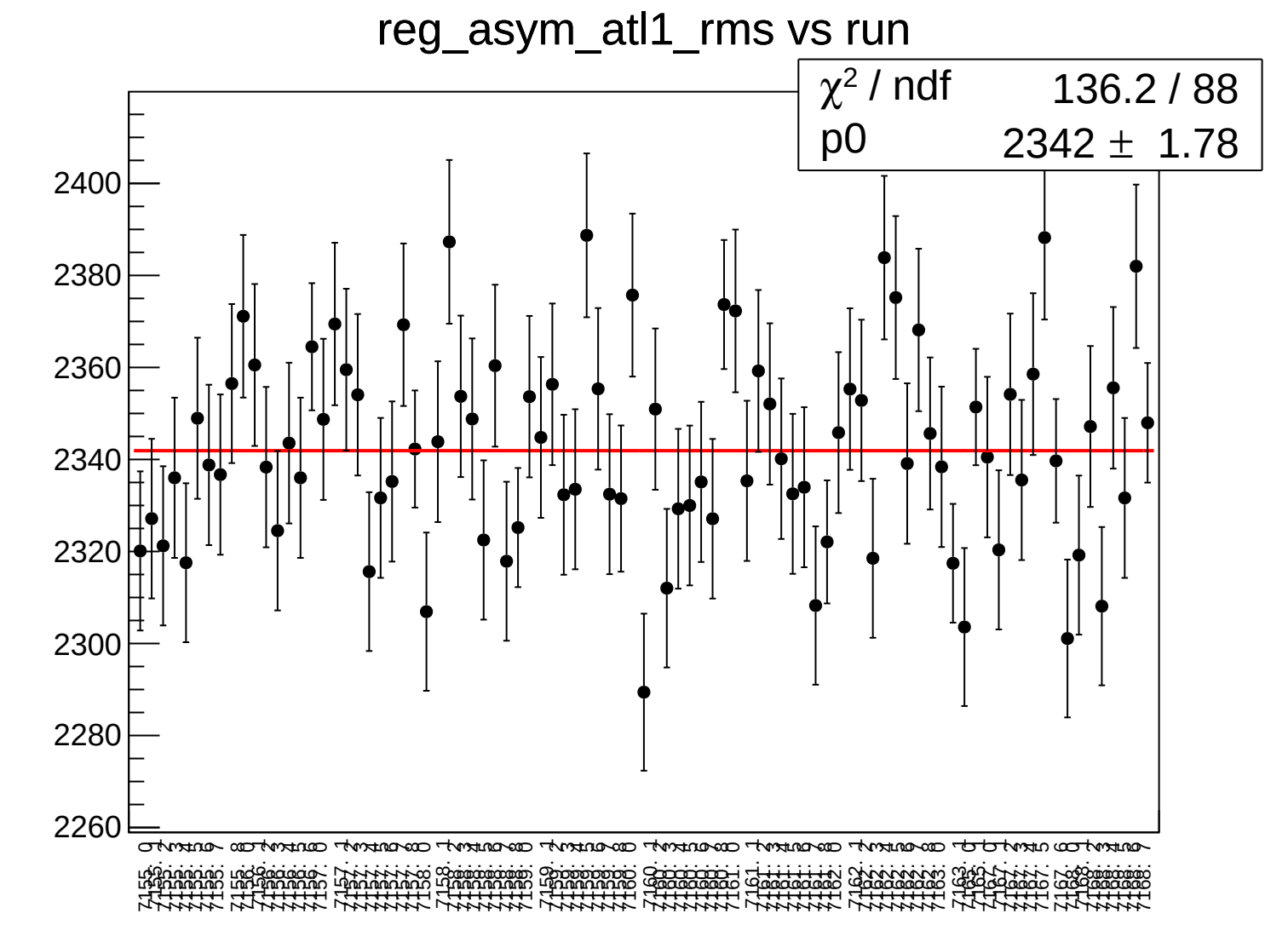

asym_us_agg_dd_mean vs run
χ² / ndf 79.86 / 88
p0 −323.5 ± 996.8
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −305.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

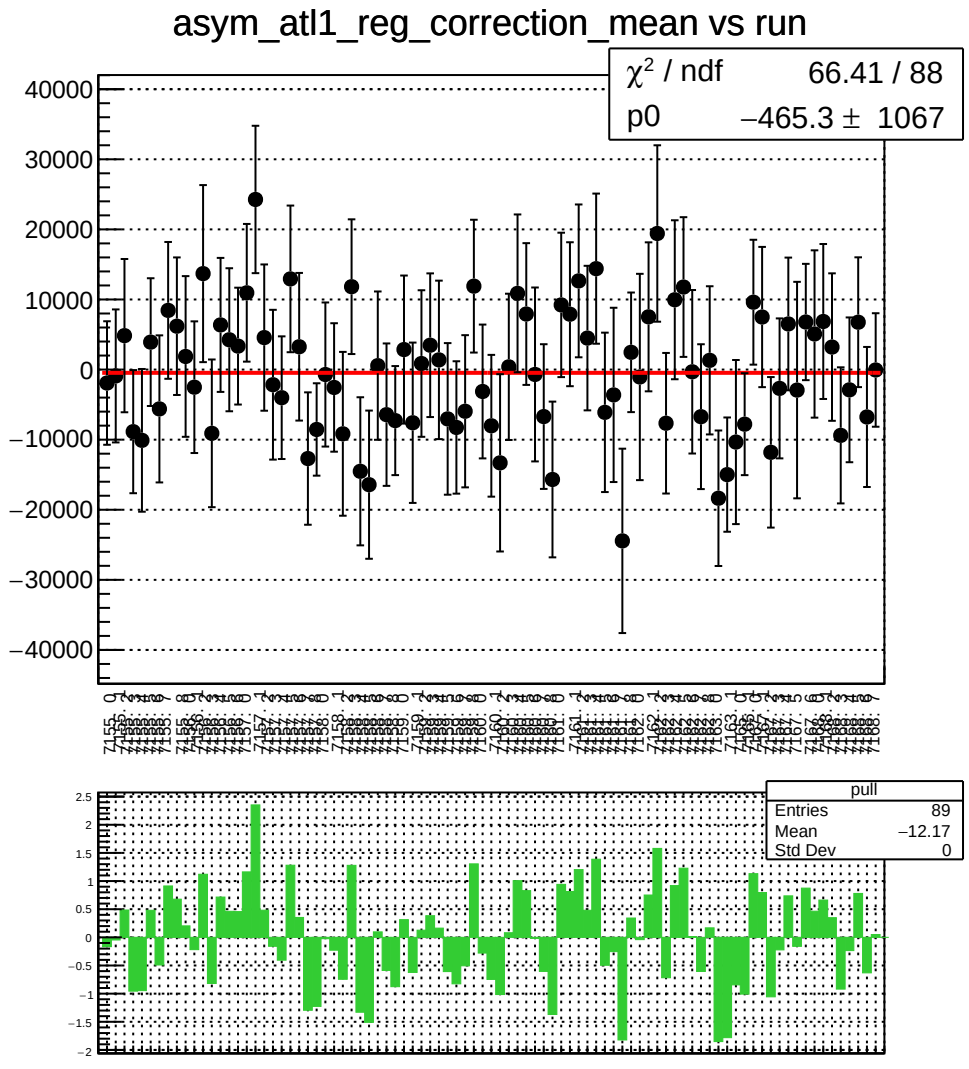

pull1D
Entries 89
Mean −0.008148
Std Dev 0.9472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

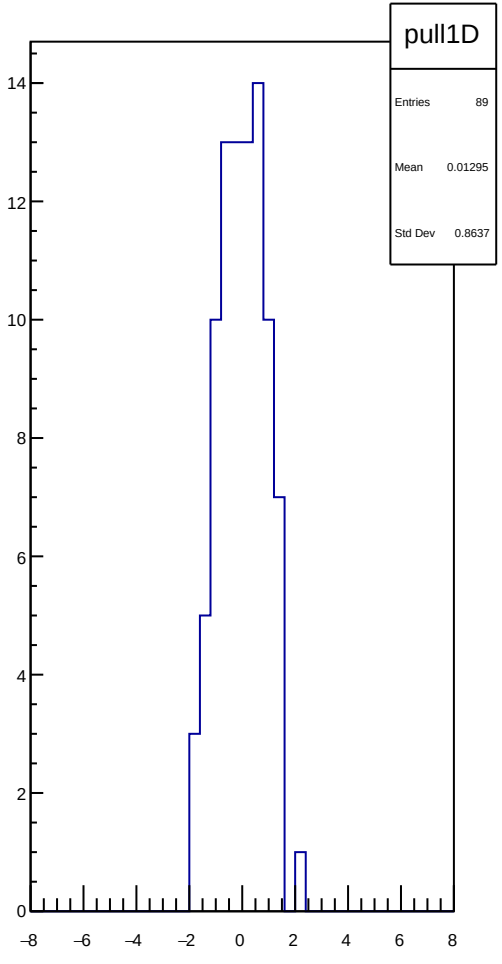

asym_us_agg_dd_rms vs run
χ^2 / ndf 674.4 / 88
p0 927 ± 0.7049
980
960
940
920
900
880

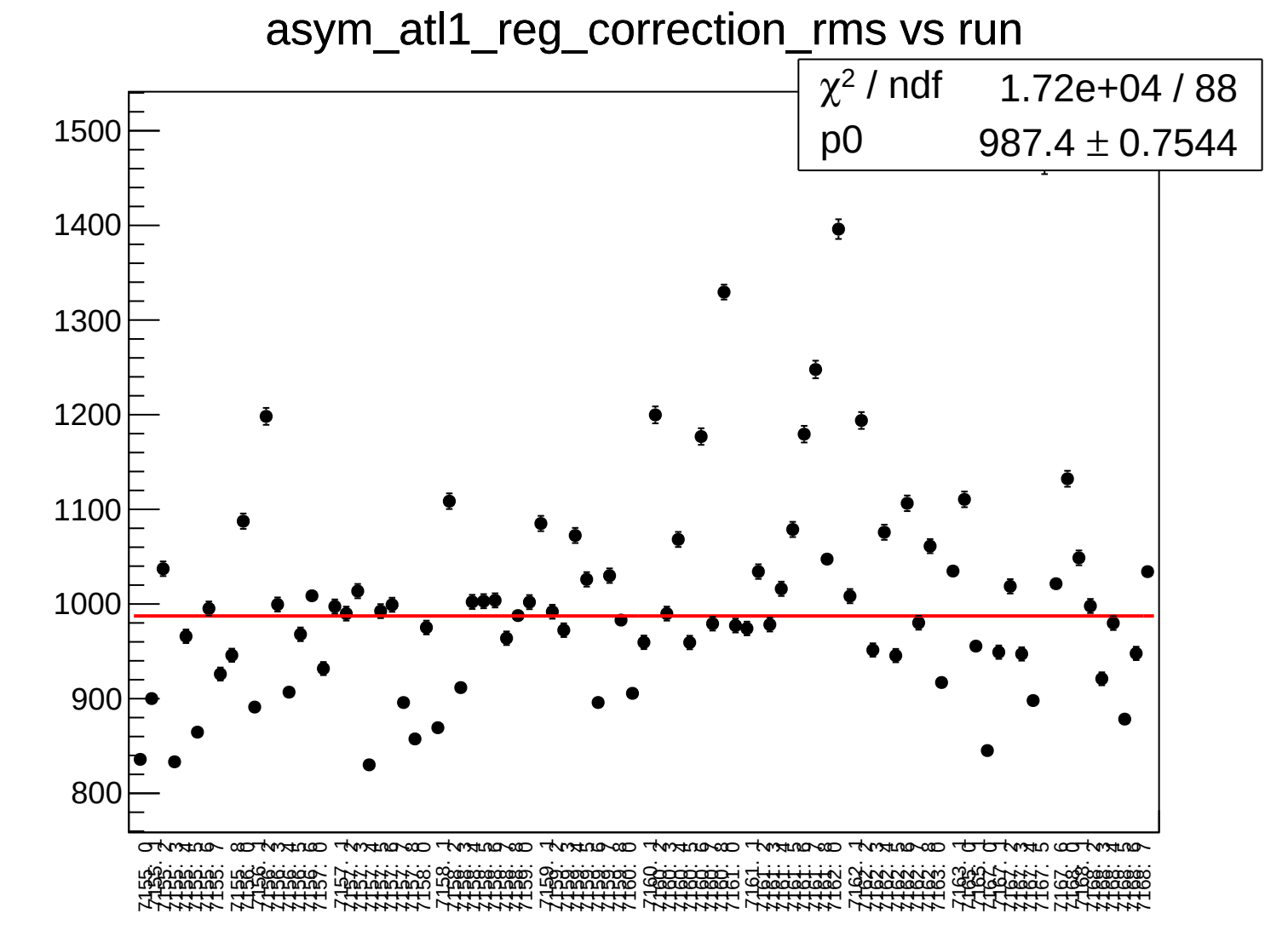

reg_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 93.11 / 88
p0 670.6 ± 2518
pull
Entries 89
Mean 92.66
Std Dev 49.89
2
1
0
−1
−2

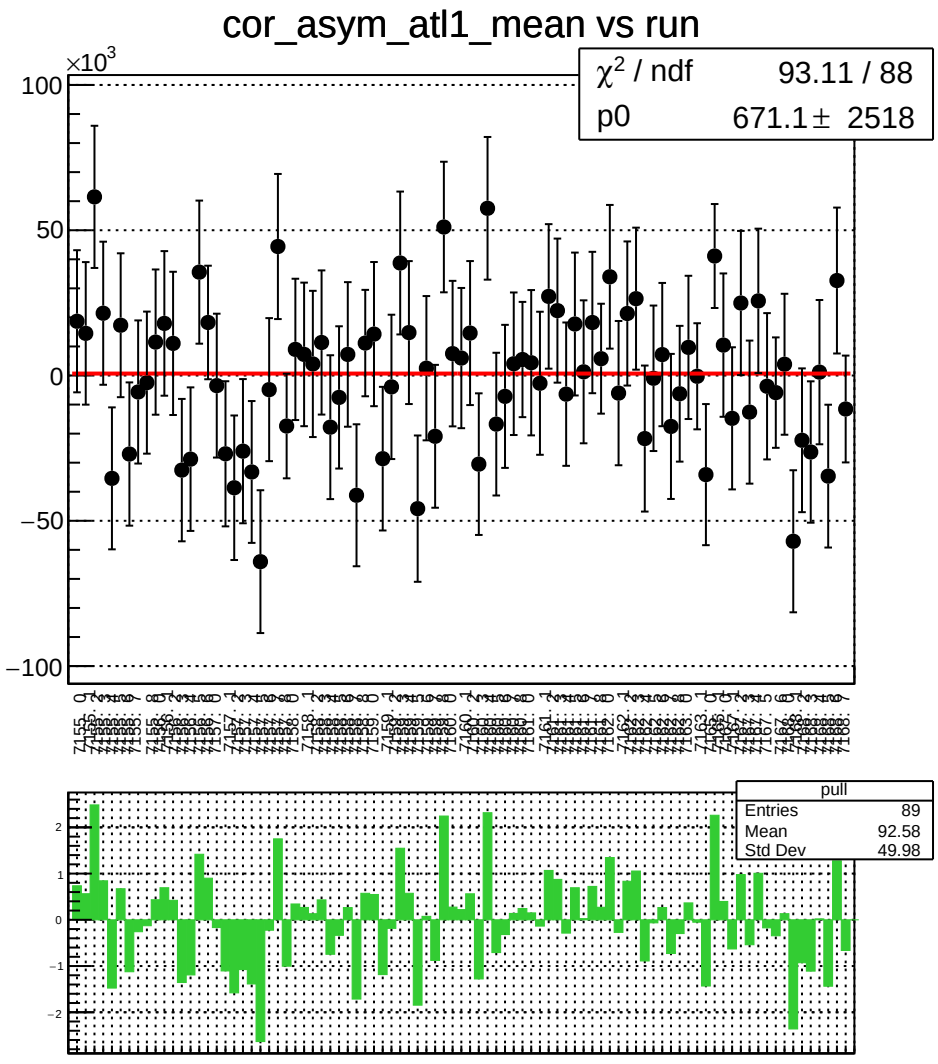

pull1D
Entries 89
Mean −0.009453
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

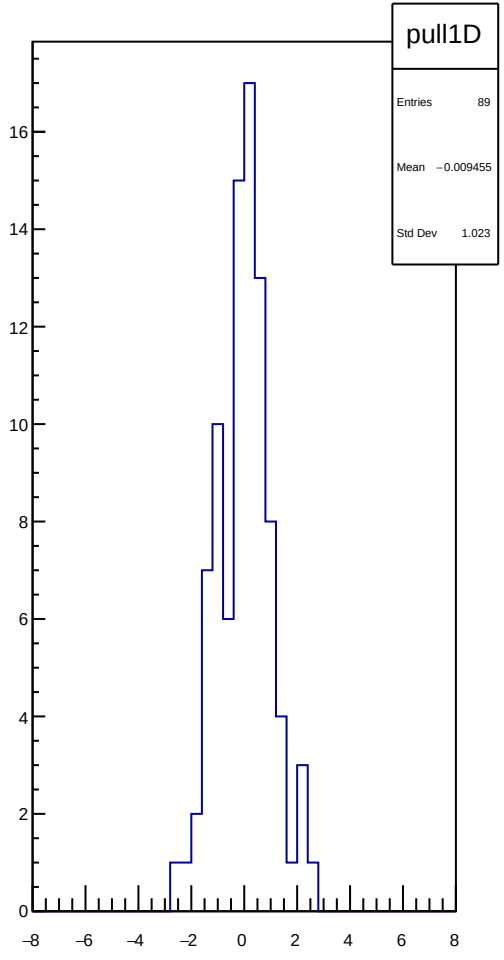

reg_asym_atl1_rms vs run
χ² / ndf 136.2 / 88
p0 2342 ± 1.78
2400
2380
2360
2340
2320
2300
2280
2260

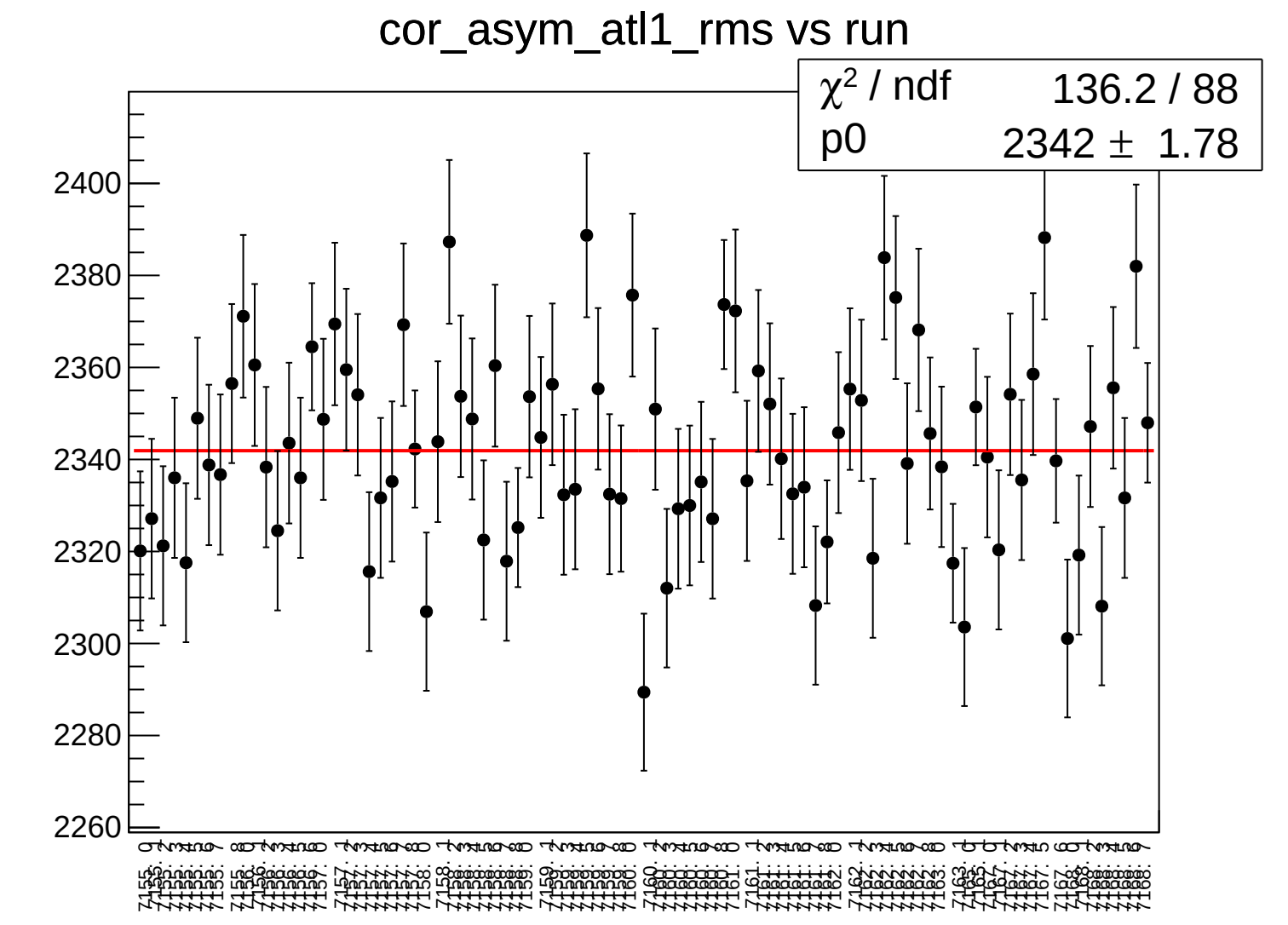

asym_atl1_reg_correction_mean vs run
χ² / ndf 66.41 / 88
p0 −465.3 ± 1067
pull
Entries 89
Mean −12.17
Std Dev 0

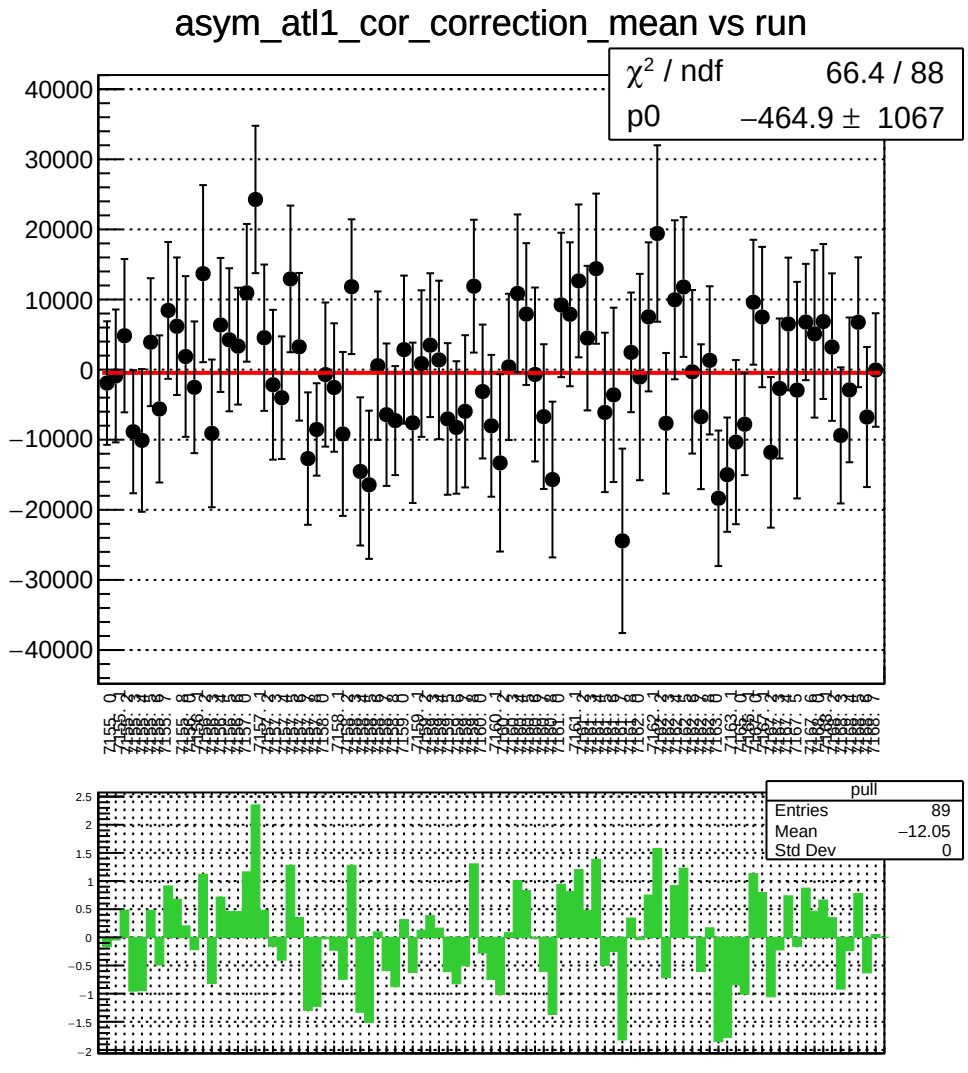

pull1D
Entries 89
Mean 0.01295
Std Dev 0.8637

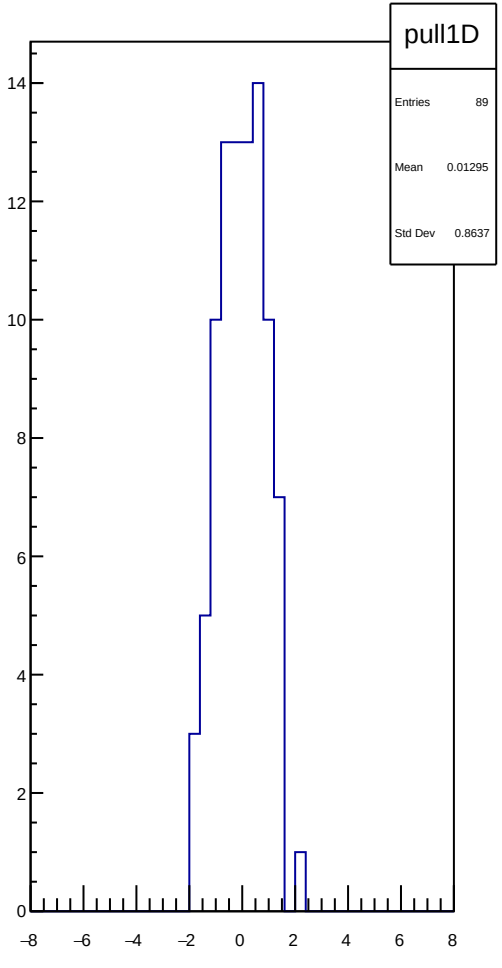

asym_atl1_reg_correction_rms vs run
χ² / ndf 1.72e+04 / 88
p0 987.4 ± 0.7544
1500
1400
1300
1200
1100
1000
900
800

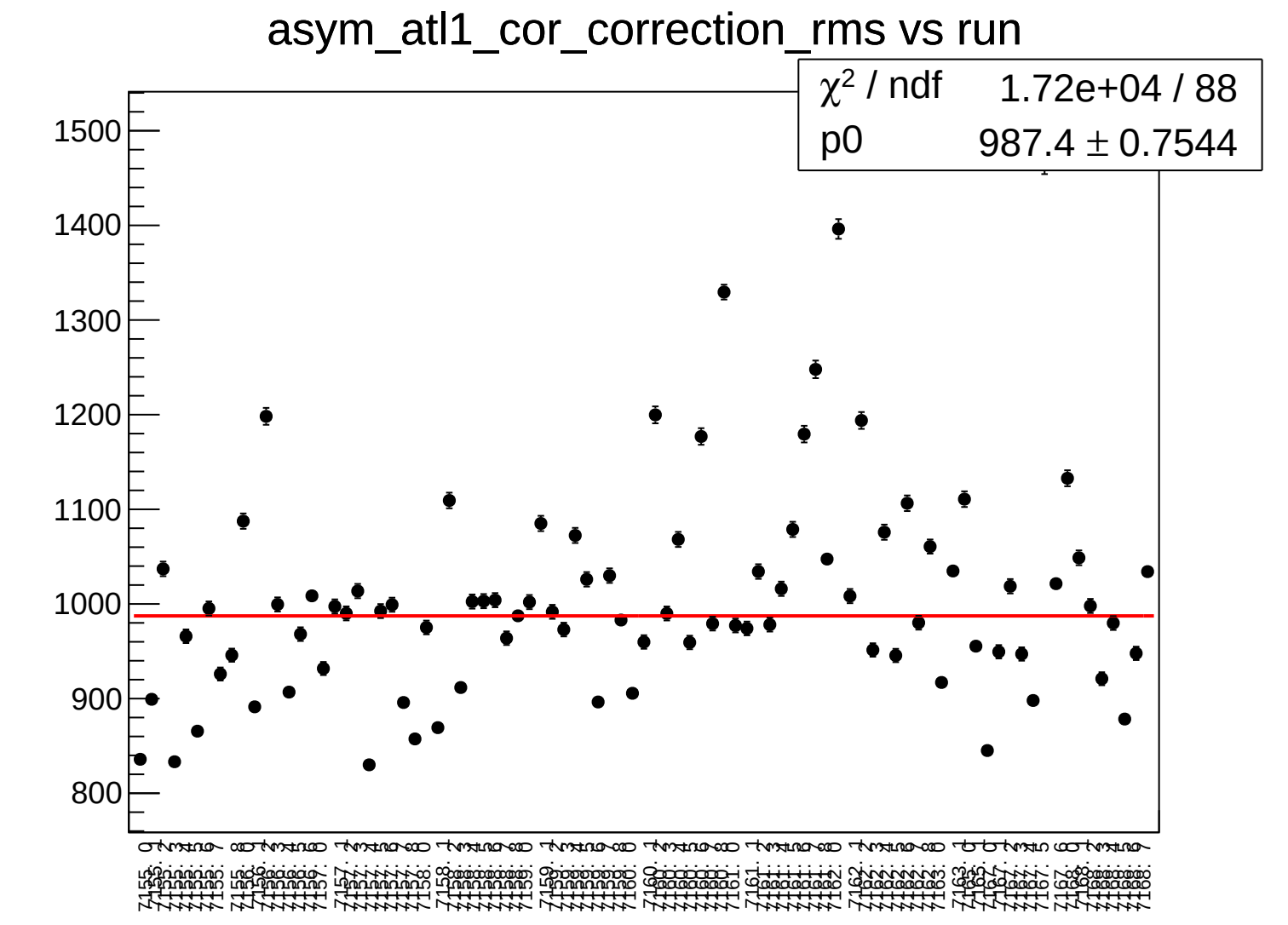

cor_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 93.11 / 88
p0 671.1 ± 2518
pull
Entries 89
Mean 92.58
Std Dev 49.98
2
1
0
−1
−2

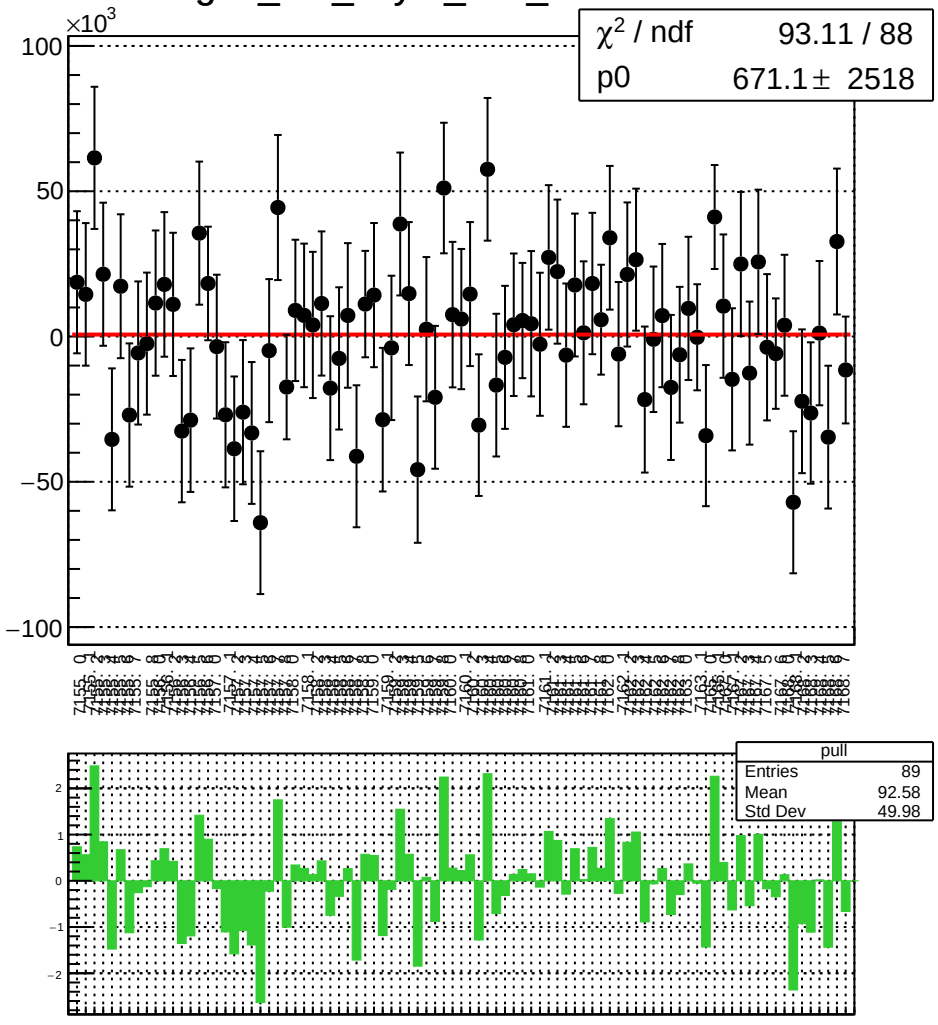

pull1D
Entries 89
Mean −0.009455
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

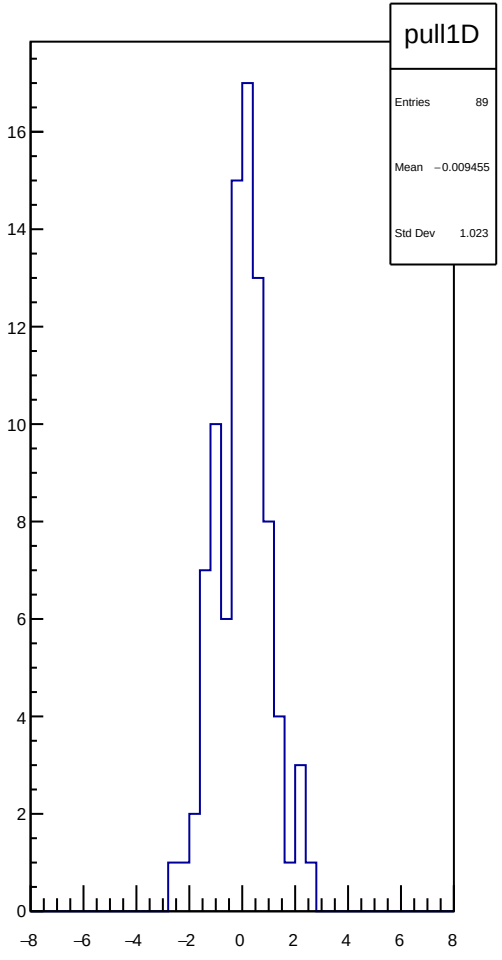

cor_asym_atl1_rms vs run
χ² / ndf 136.2 / 88
p0 2342 ± 1.78
2400
2380
2360
2340
2320
2300
2280
2260

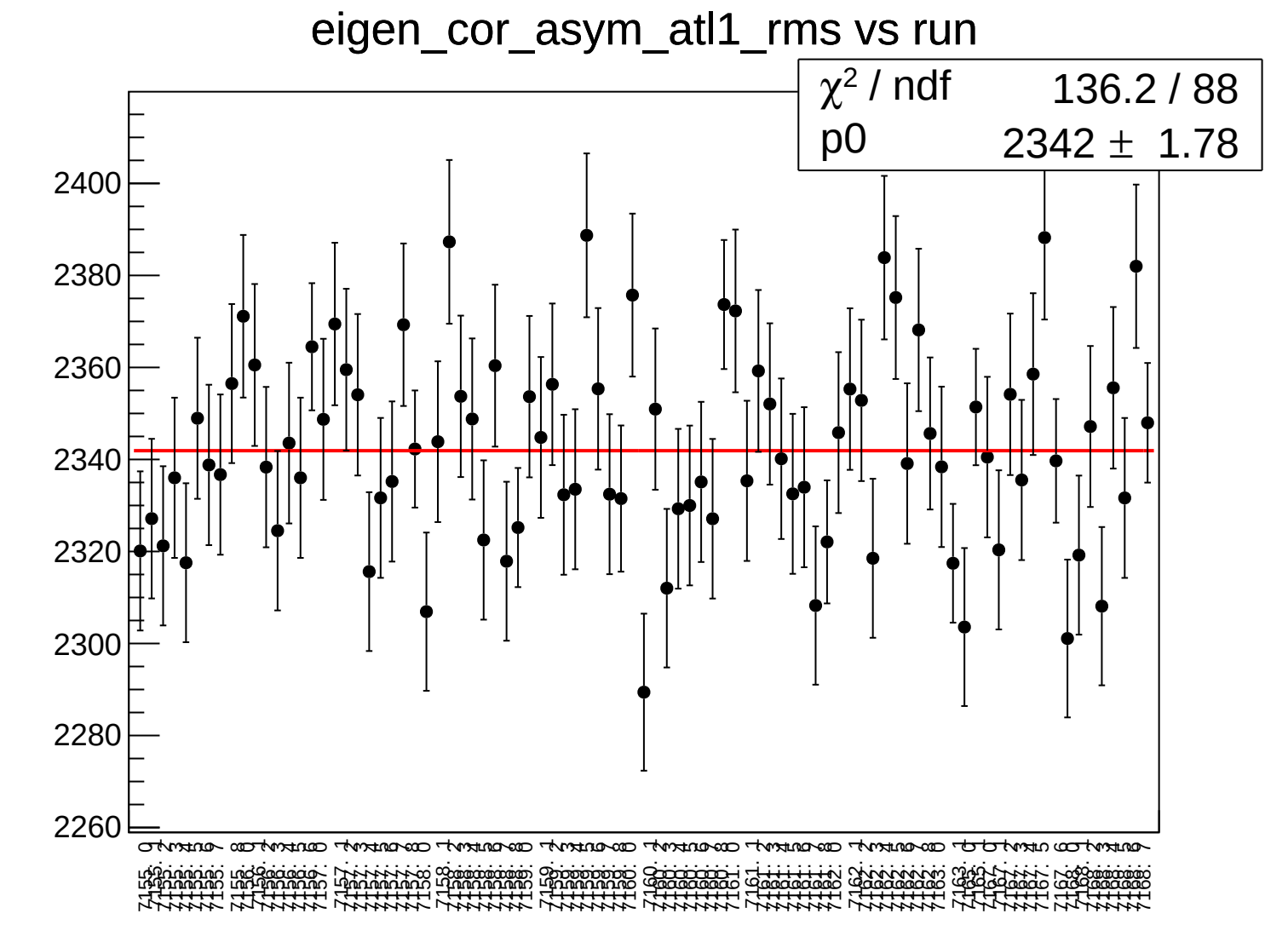

asym_atl1_cor_correction_mean vs run
χ² / ndf 66.4 / 88
p0 −464.9 ± 1067
pull
Entries 89
Mean −12.05
Std Dev 0

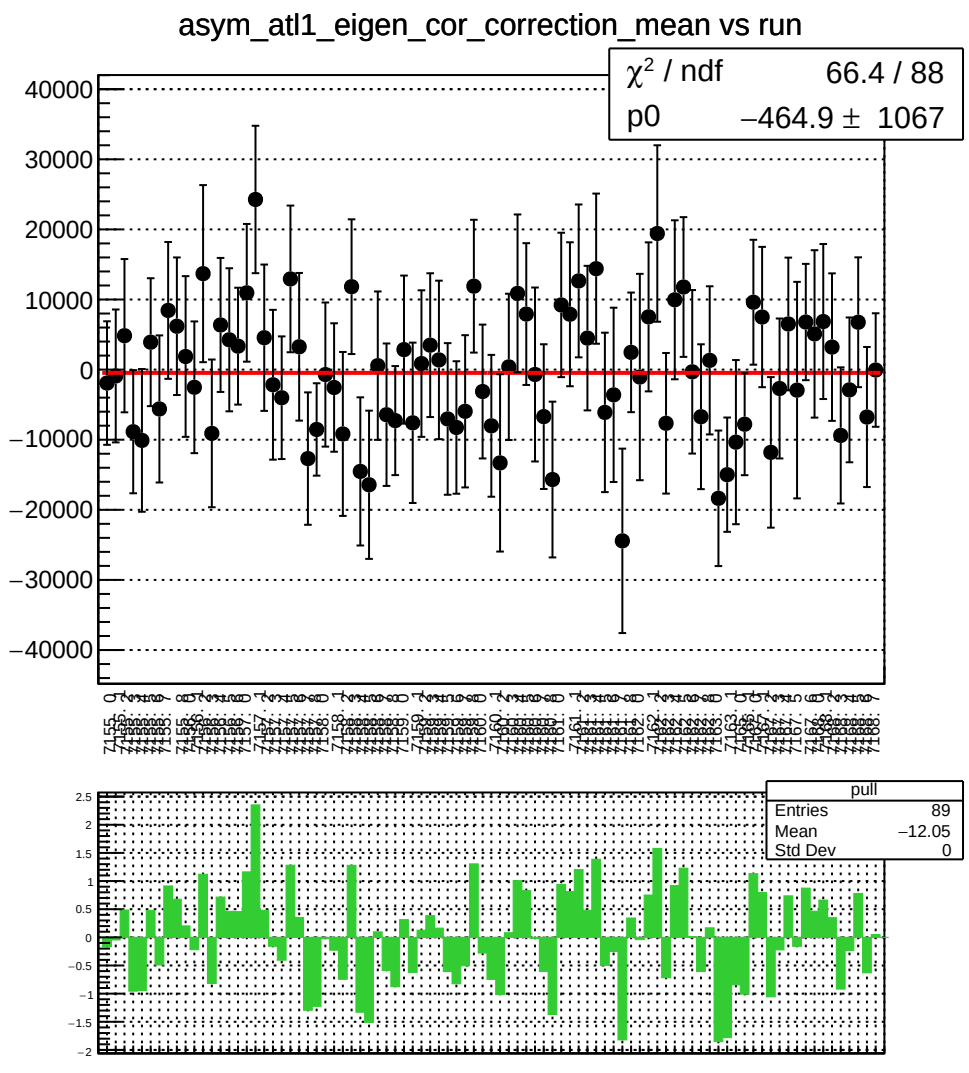

pull1D
Entries 89
Mean 0.01295
Std Dev 0.8637

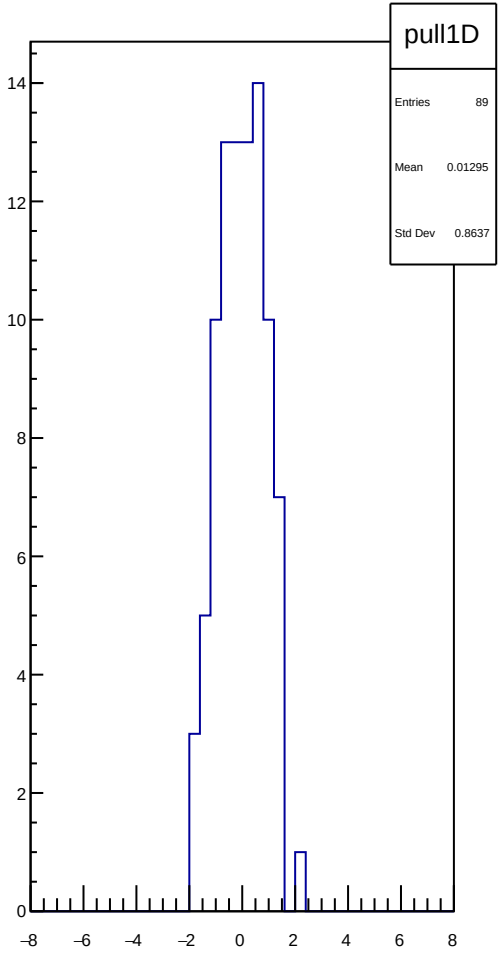

asym_atl1_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 88
p0 987.4 ± 0.7544
1500
1400
1300
1200
1100
1000
900
800

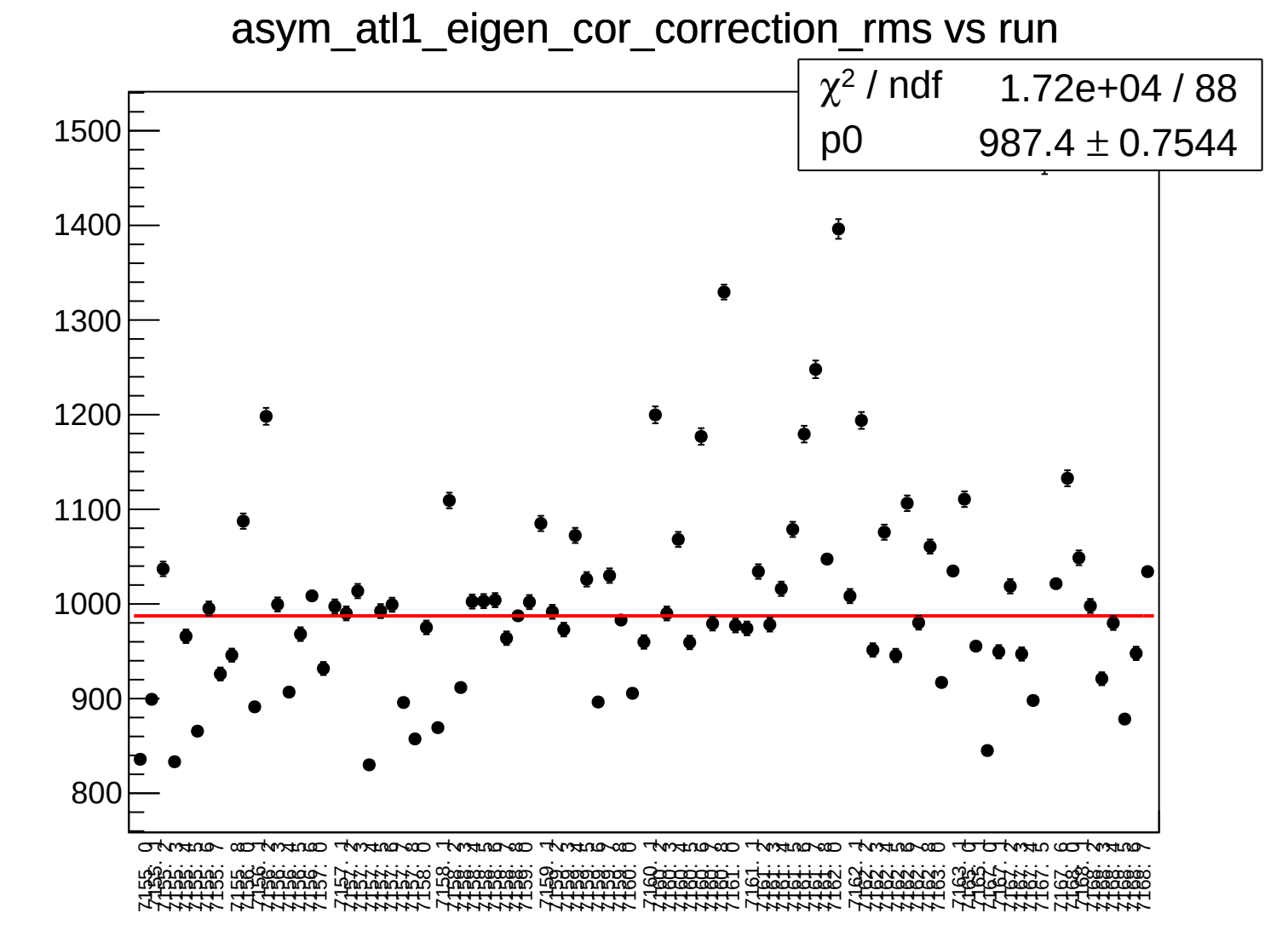

eigen_cor_asym_atl1_mean vs run
×10^3
χ² / ndf 93.11 / 88
p0 671.1 ± 2518
pull
Entries 89
Mean 92.58
Std Dev 49.98

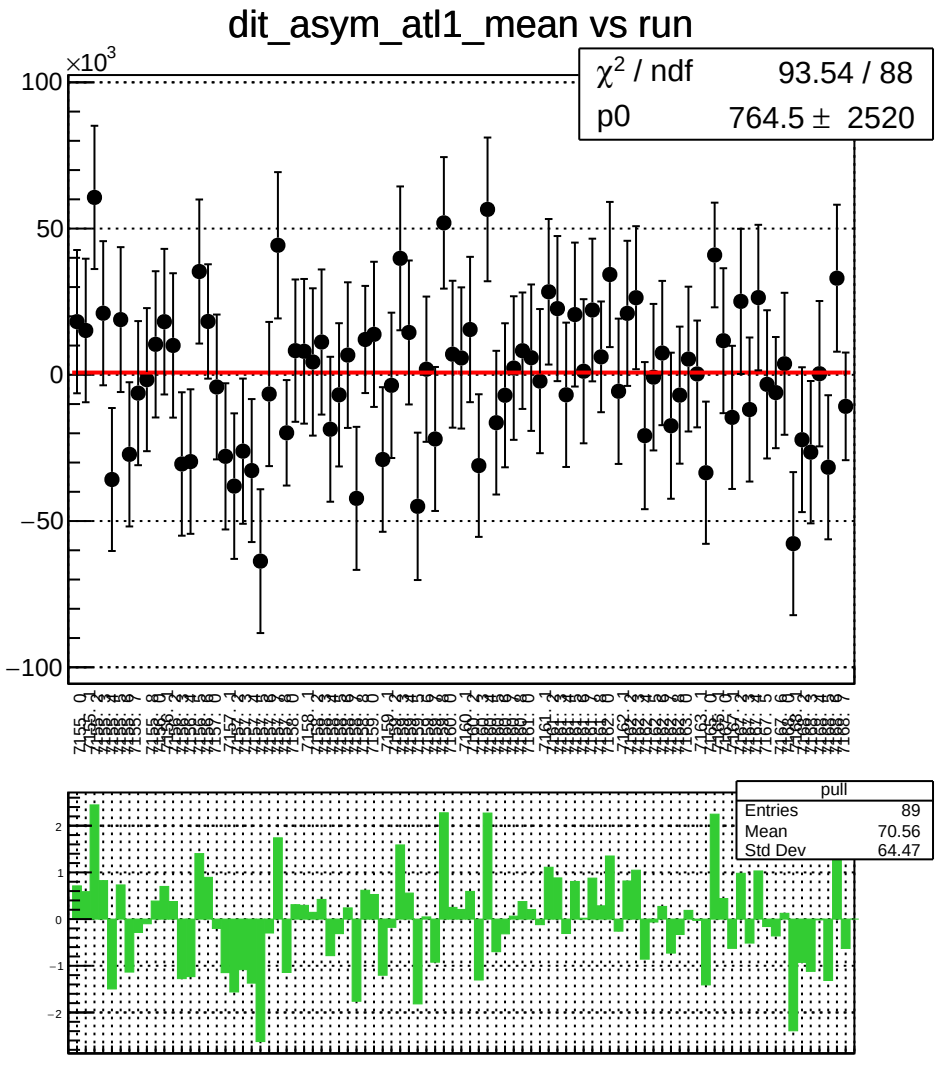

pull1D
Entries 89
Mean −0.009455
Std Dev 1.023

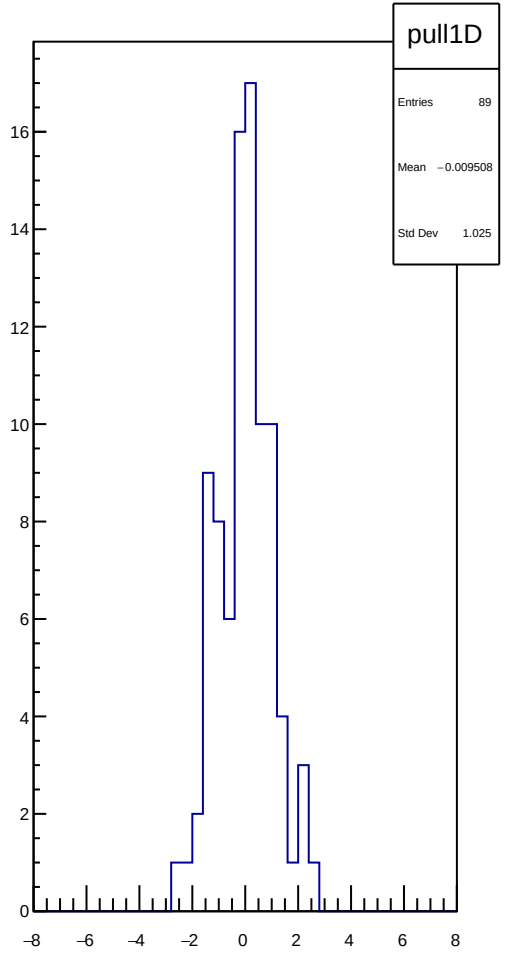

eigen_cor_asym_atl1_rms vs run
χ² / ndf 136.2 / 88
p0 2342 ± 1.78
2400
2380
2360
2340
2320
2300
2280
2260

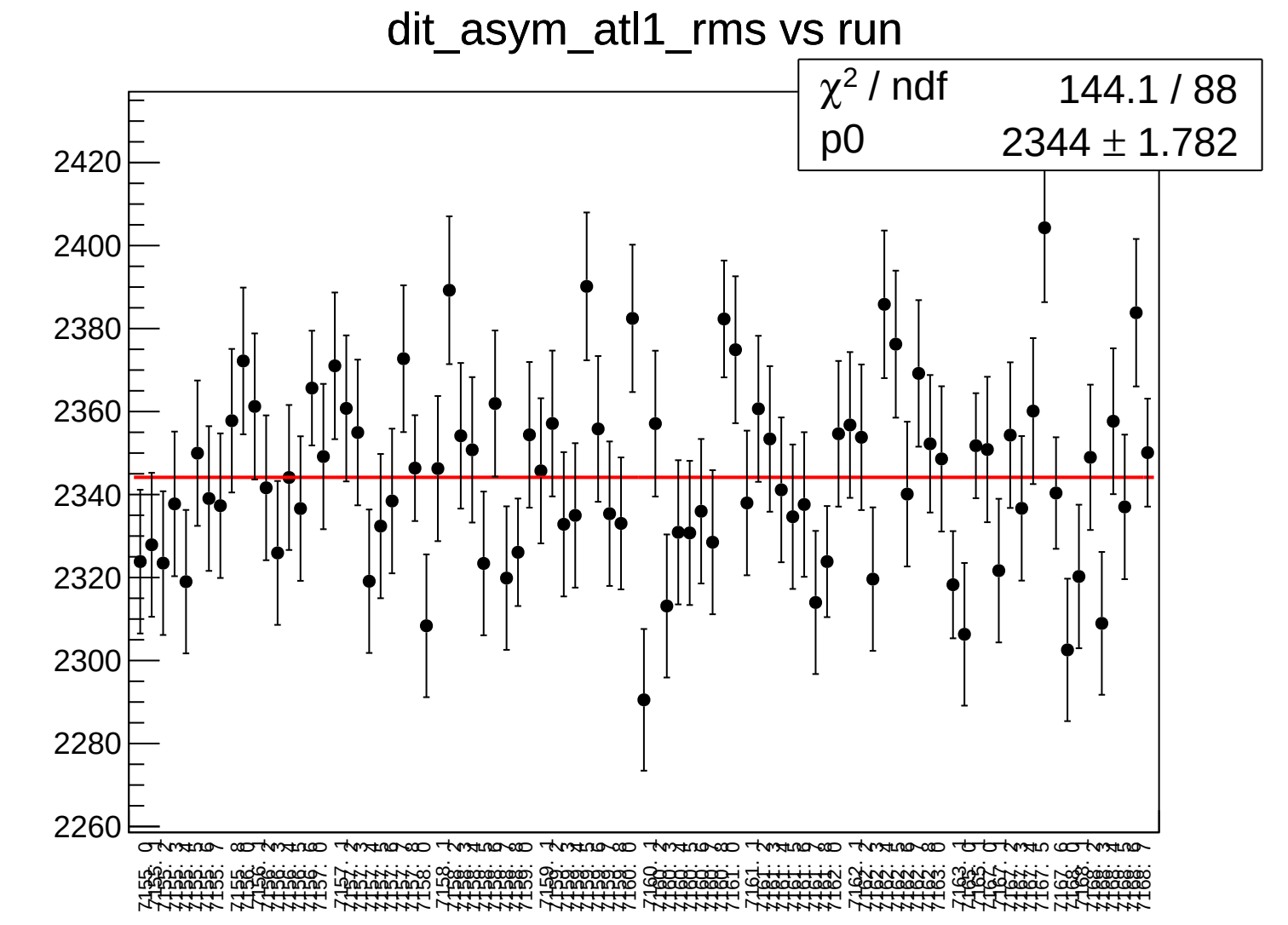

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 66.4 / 88
p0 −464.9 ± 1067
pull
Entries 89
Mean −12.05
Std Dev 0

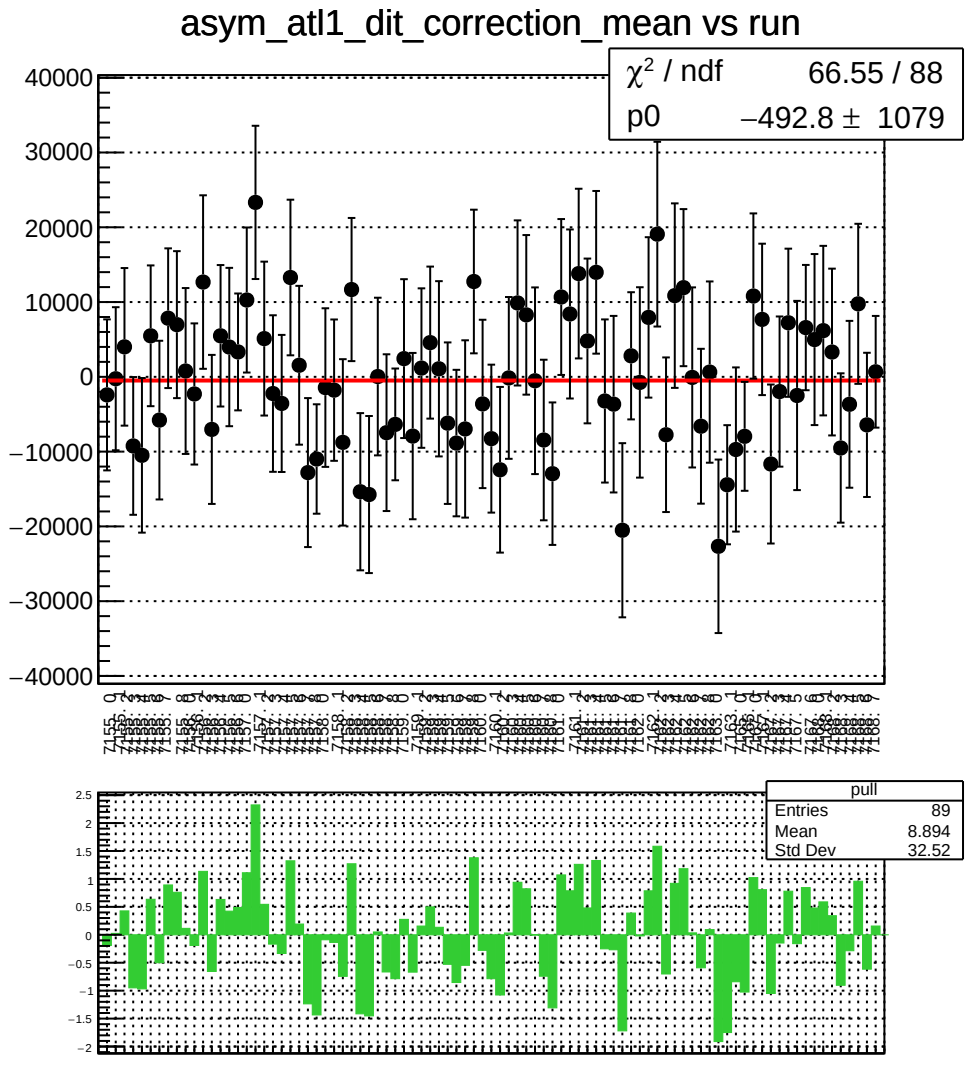

pull1D
Entries 89
Mean 0.01295
Std Dev 0.8637

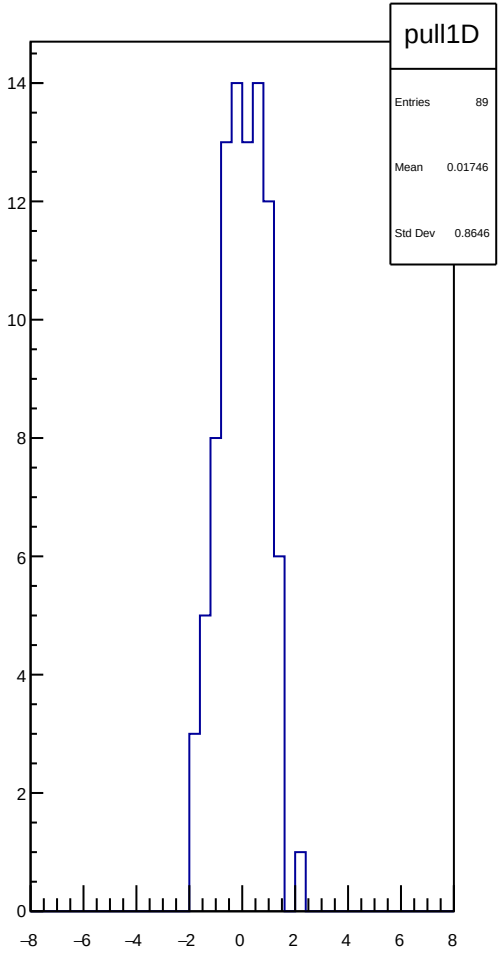

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 1.72e+04 / 88
p0 987.4 ± 0.7544
1500
1400
1300
1200
1100
1000
900
800

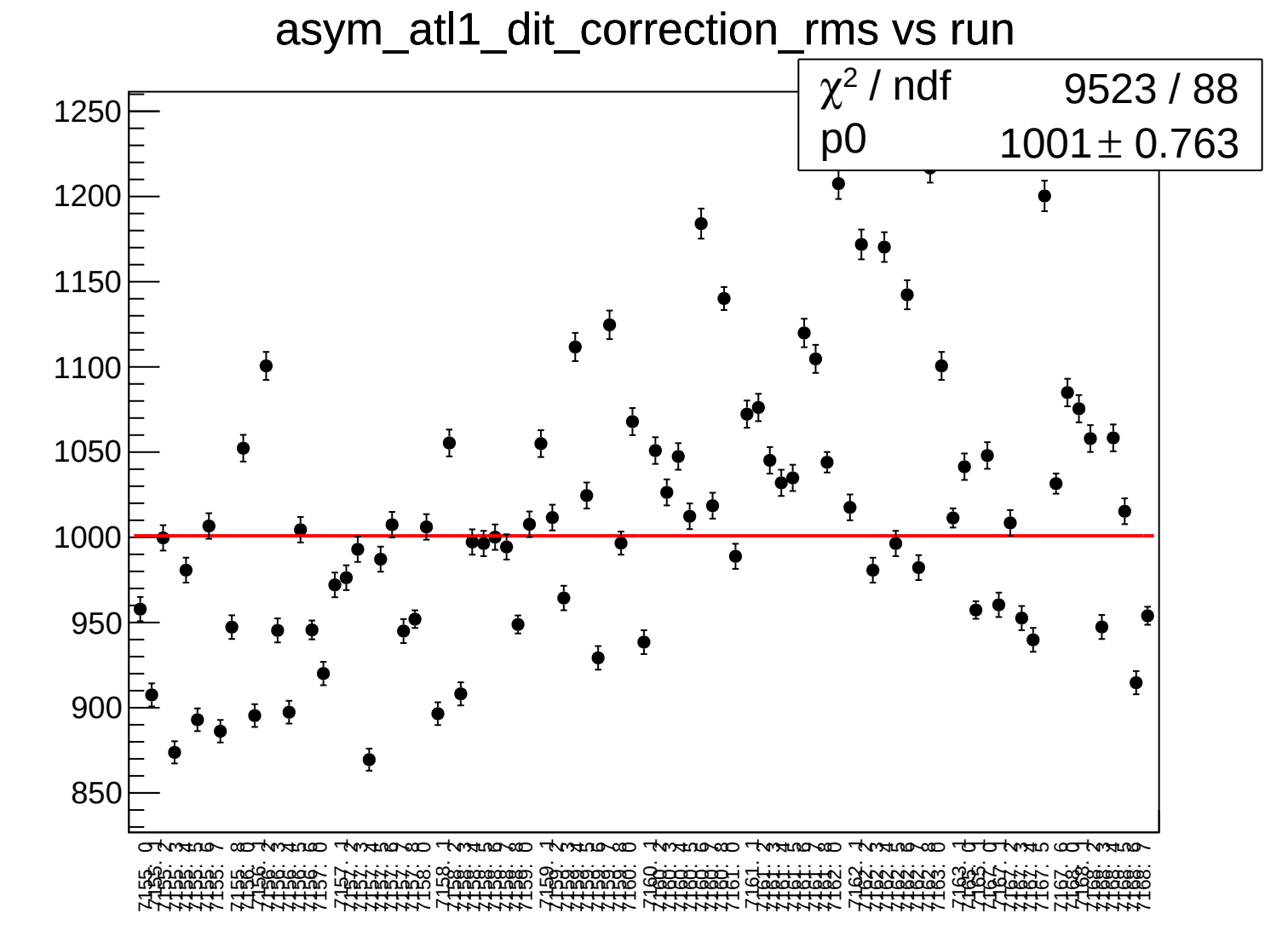

dit_asym_atl1_mean vs run
χ^2 / ndf 93.54 / 88
p0 764.5 ± 2520
×10^3
100
50
0
−50
−100
pull
Entries 89
Mean 70.56
Std Dev 64.47
2
1
0
−1
−2

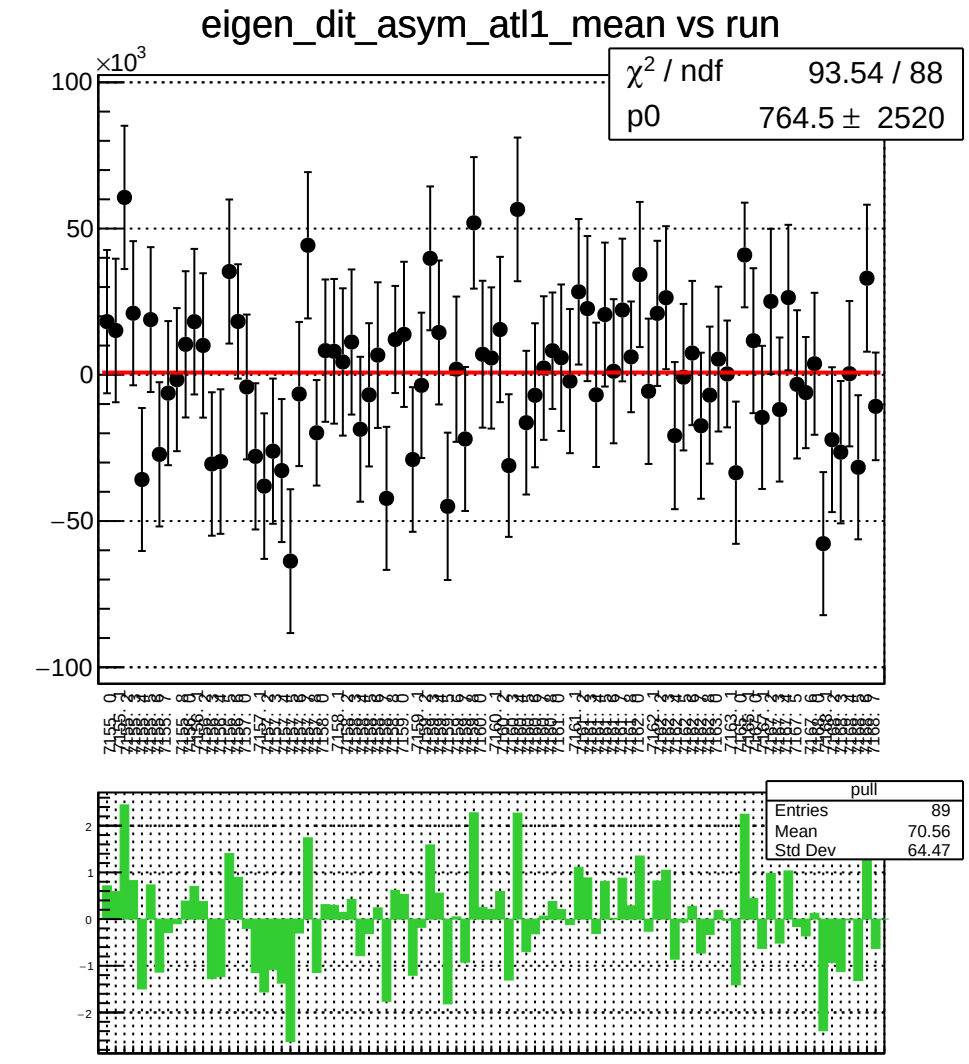

pull1D
Entries 89
Mean −0.009508
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

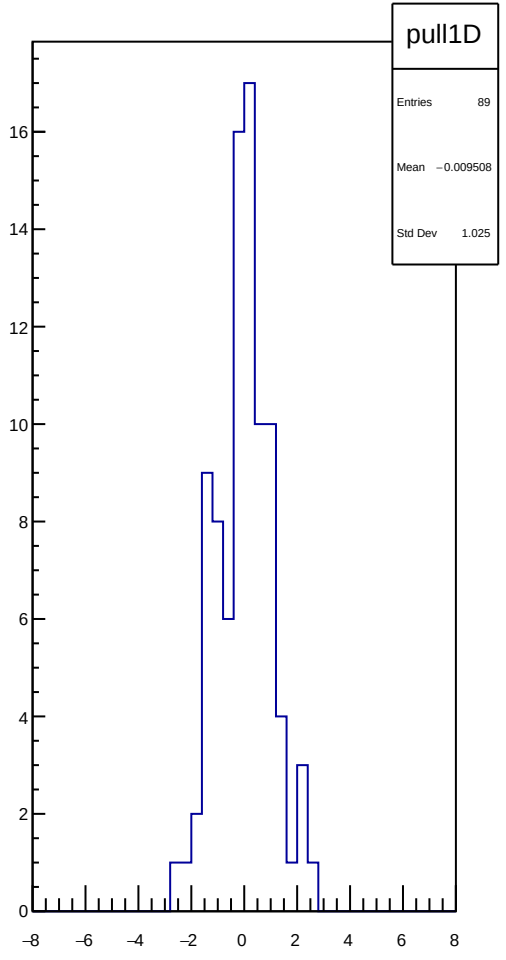

dit_asym_atl1_rms vs run
χ² / ndf 144.1 / 88
p0 2344 ± 1.782
2420
2400
2380
2360
2340
2320
2300
2280
2260

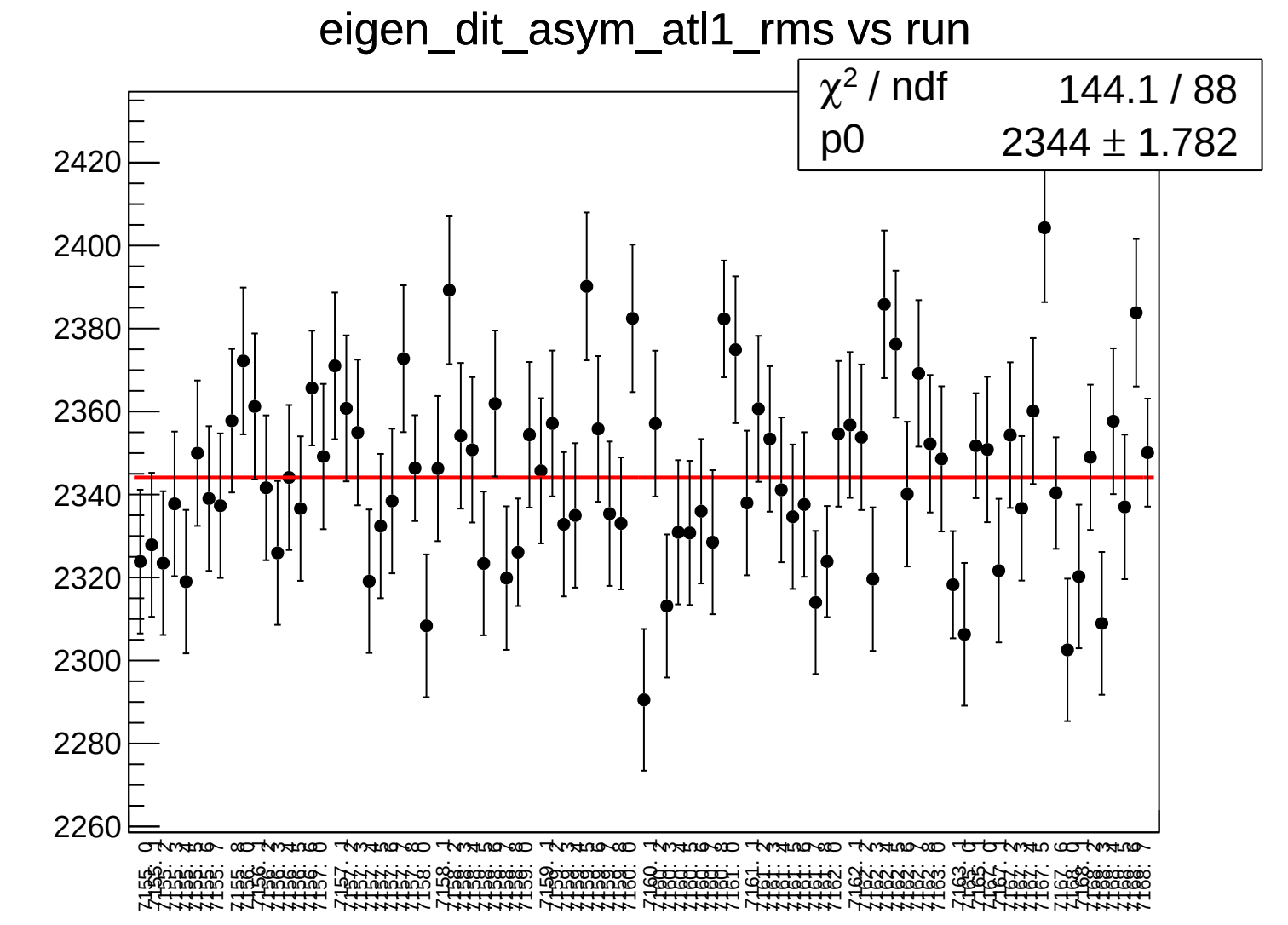

asym_atl1_dit_correction_mean vs run
χ² / ndf 66.55 / 88
p0 −492.8 ± 1079
pull
Entries 89
Mean 8.894
Std Dev 32.52

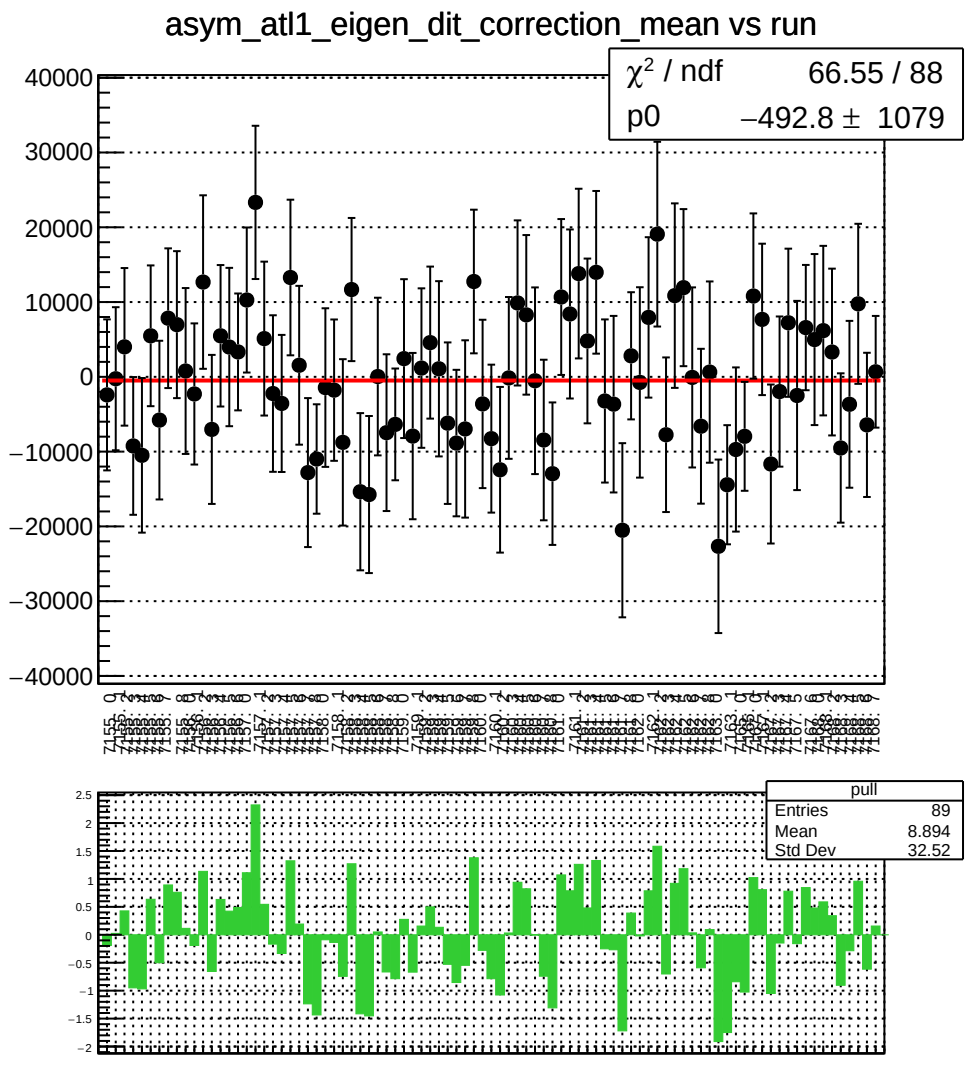

pull1D
Entries 89
Mean 0.01746
Std Dev 0.8646

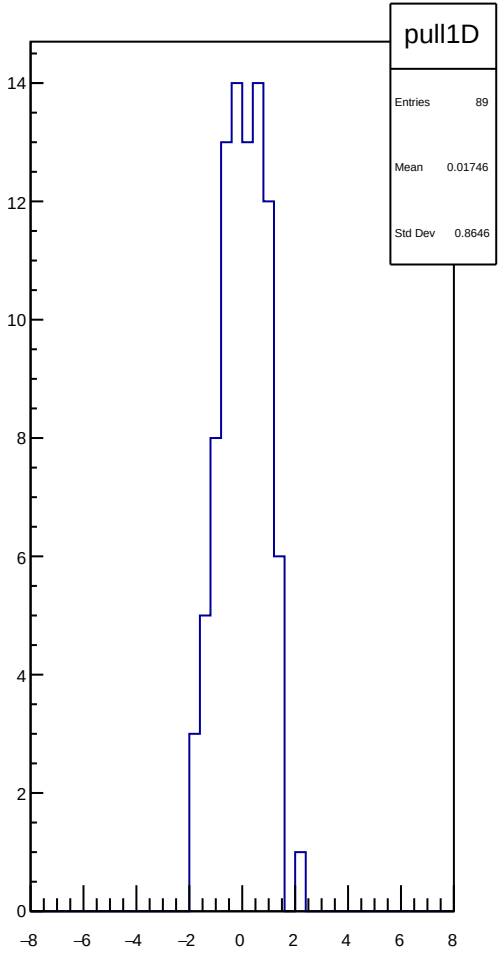

asym_atl1_dit_correction_rms vs run
χ² / ndf 9523 / 88
p0 1001 ± 0.763
1250
1200
1150
1100
1050
1000
950
900
850

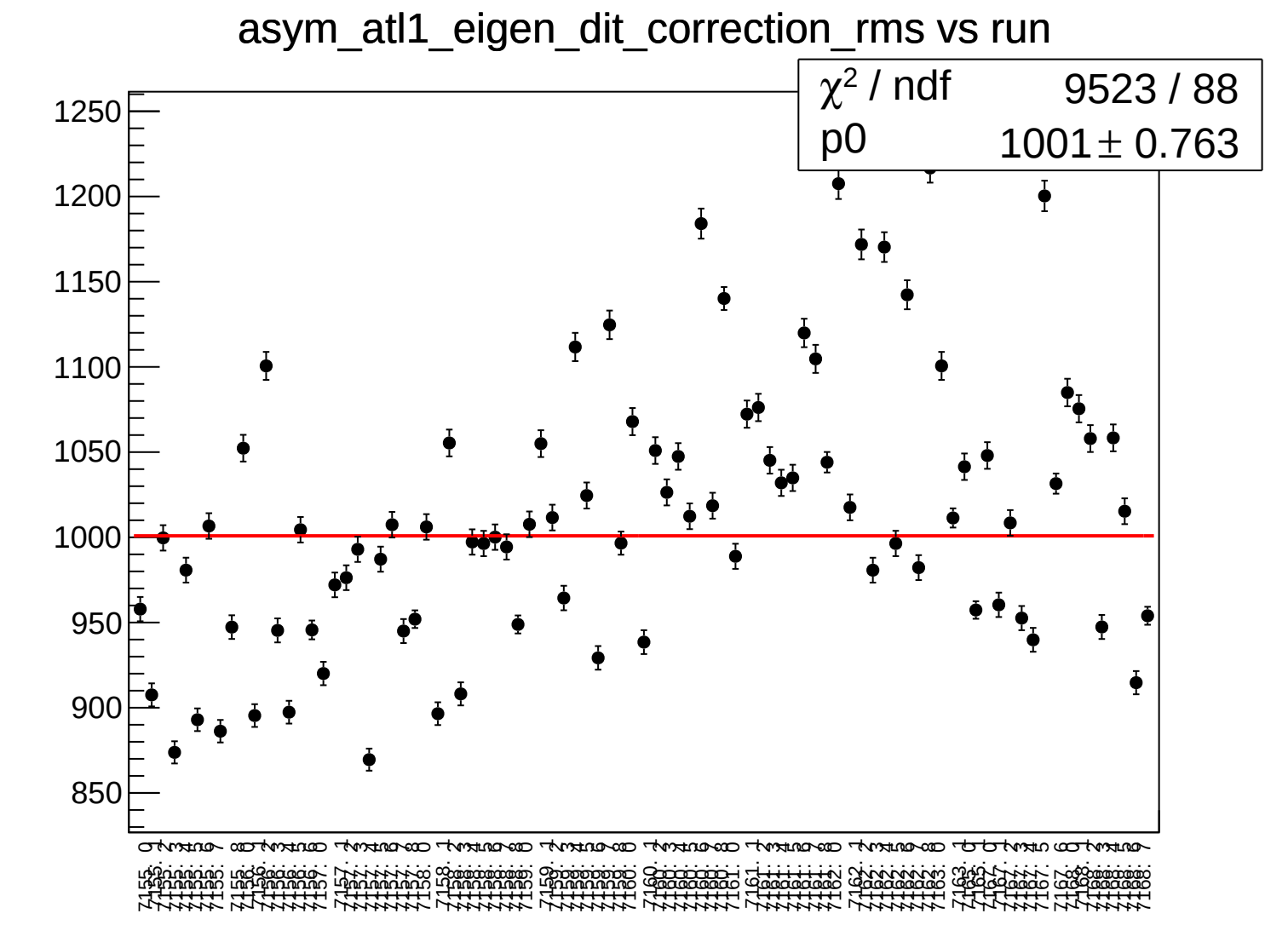

eigen_dit_asym_atl1_mean vs run
χ² / ndf 93.54 / 88
p0 764.5 ± 2520
×10³
100
50
0
−50
−100
pull
Entries 89
Mean 70.56
Std Dev 64.47
2
1
0
−1
−2

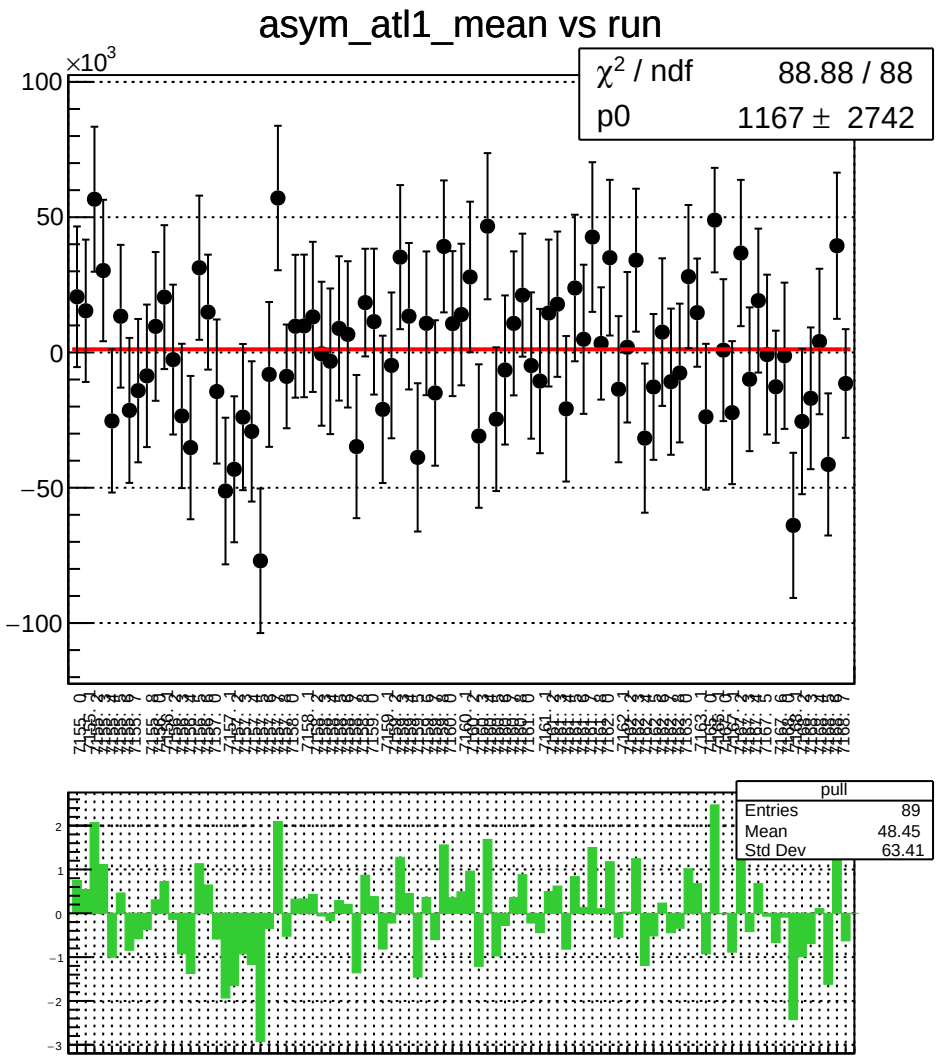

pull1D
Entries 89
Mean −0.009508
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

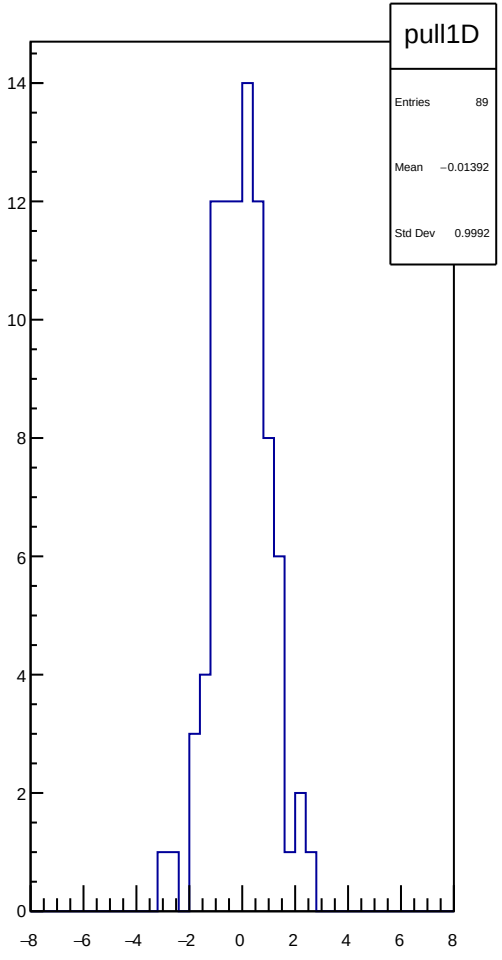

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 144.1 / 88
p0 2344 ± 1.782
2420
2400
2380
2360
2340
2320
2300
2280
2260

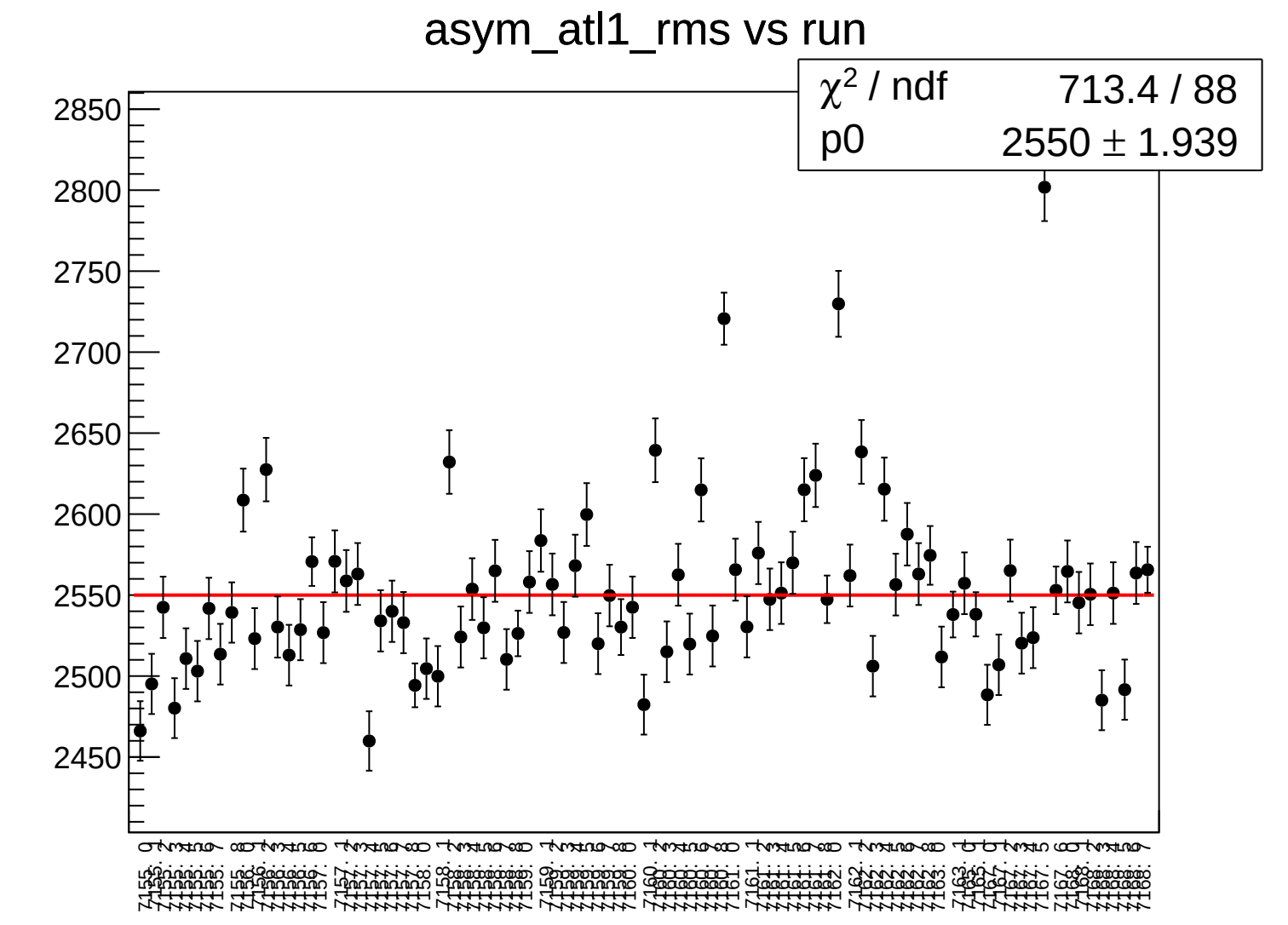

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 66.55 / 88
p0 −492.8 ± 1079
pull
Entries 89
Mean 8.894
Std Dev 32.52

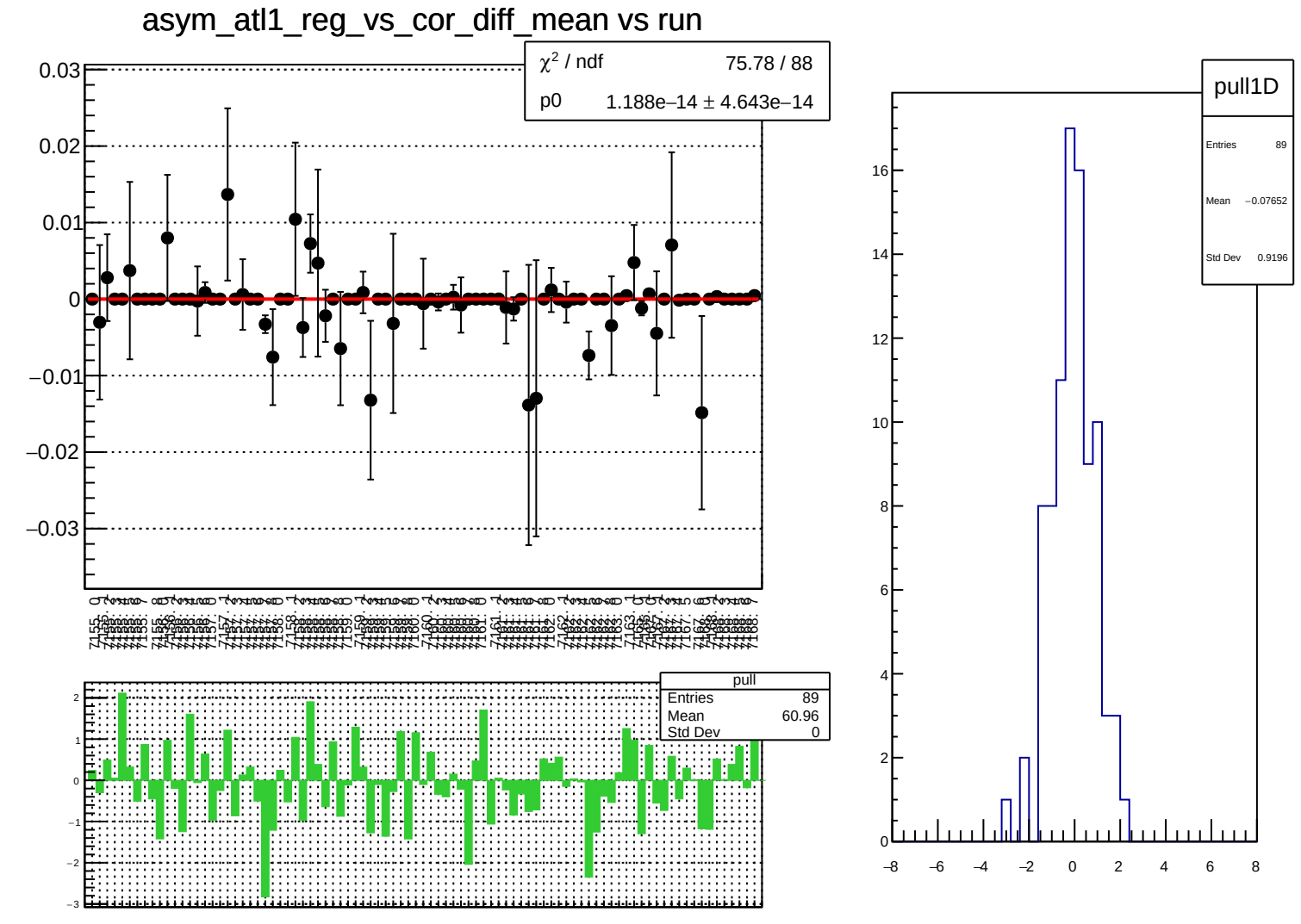

pull1D
Entries 89
Mean 0.01746
Std Dev 0.8646

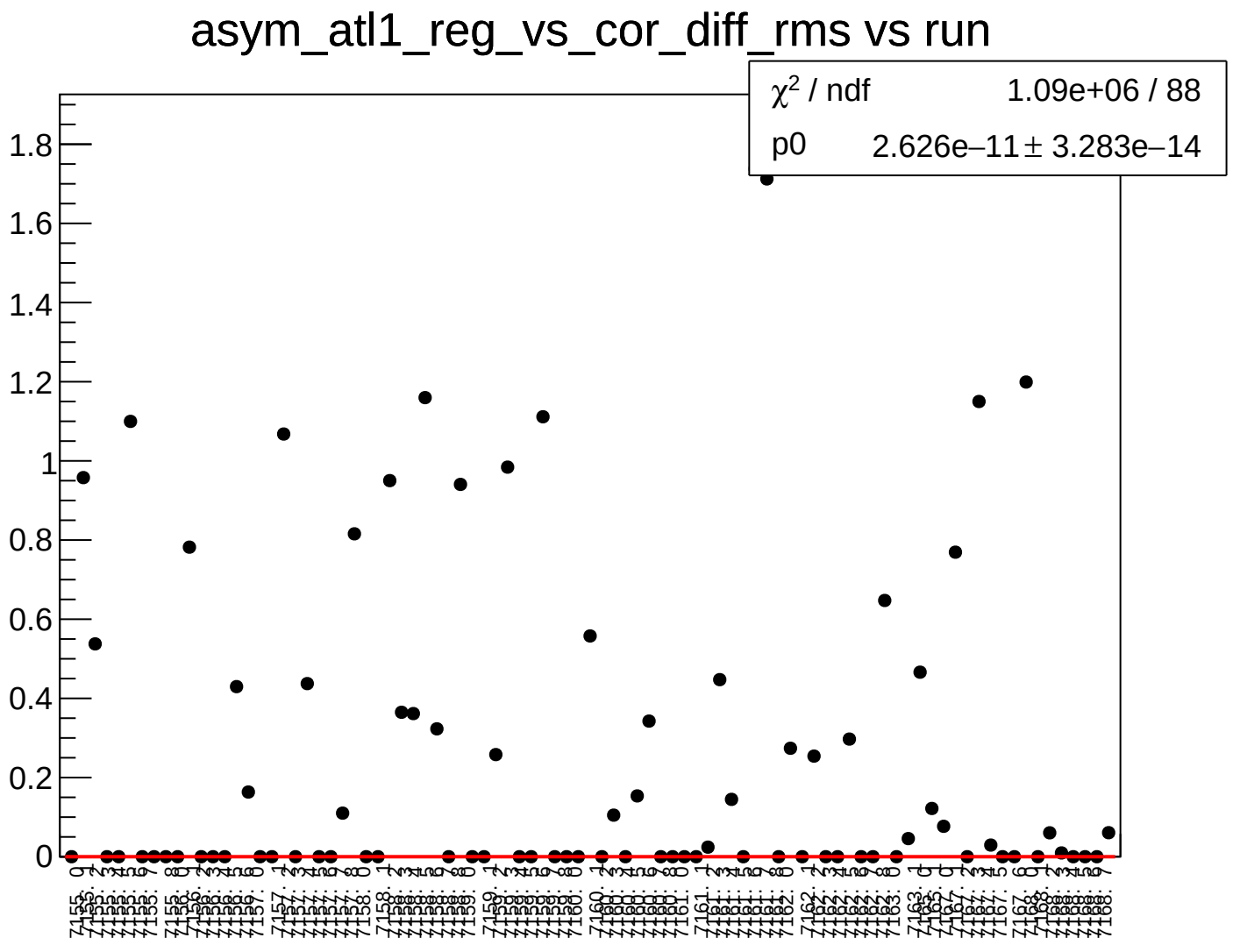

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 9523 / 88
p0 1001 ± 0.763
1250
1200
1150
1100
1050
1000
950
900
850

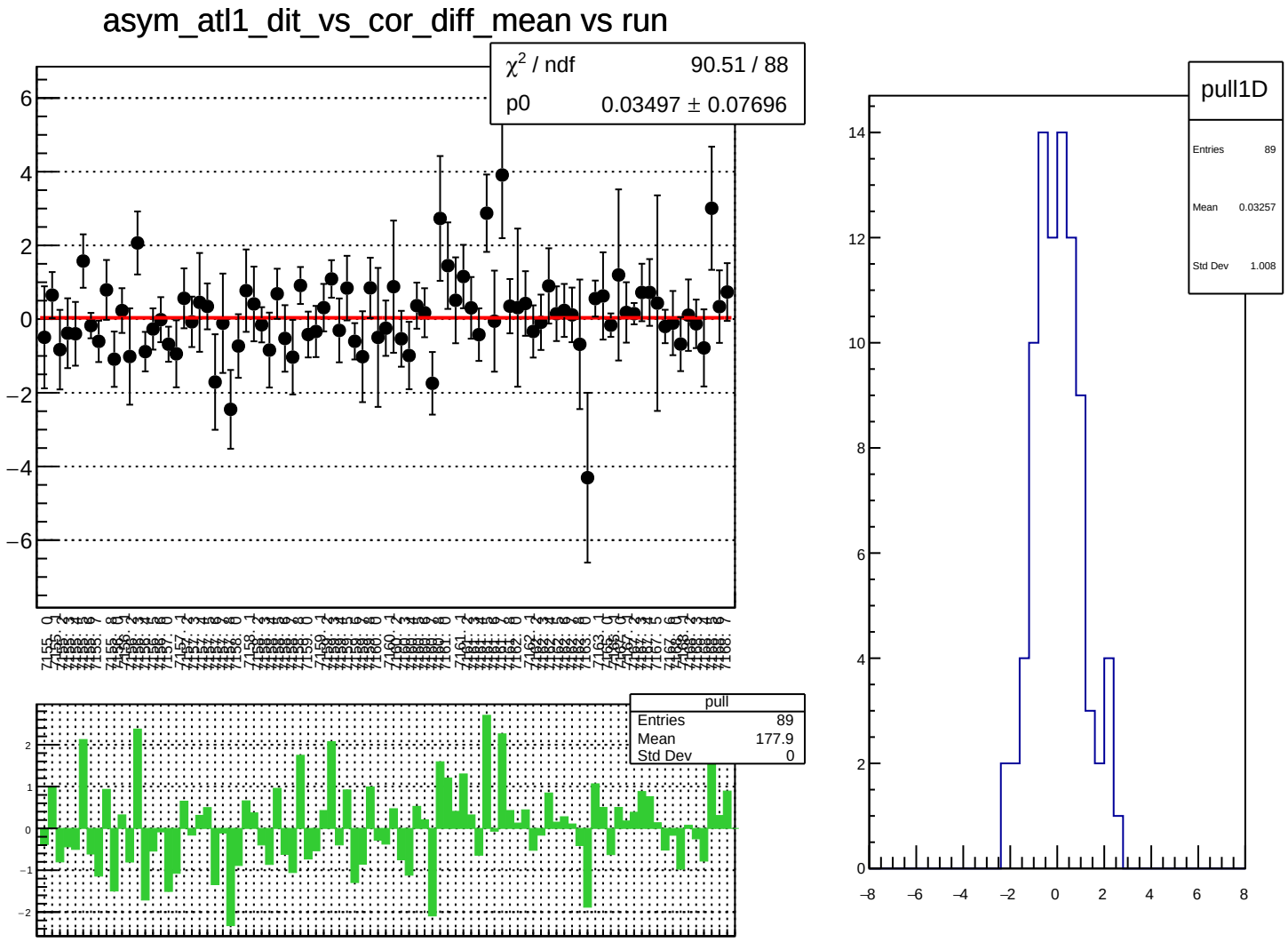

asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 88.88 / 88
p0 1167 ± 2742
pull
Entries 89
Mean 48.45
Std Dev 63.41
2
1
0
−1
−2
−3

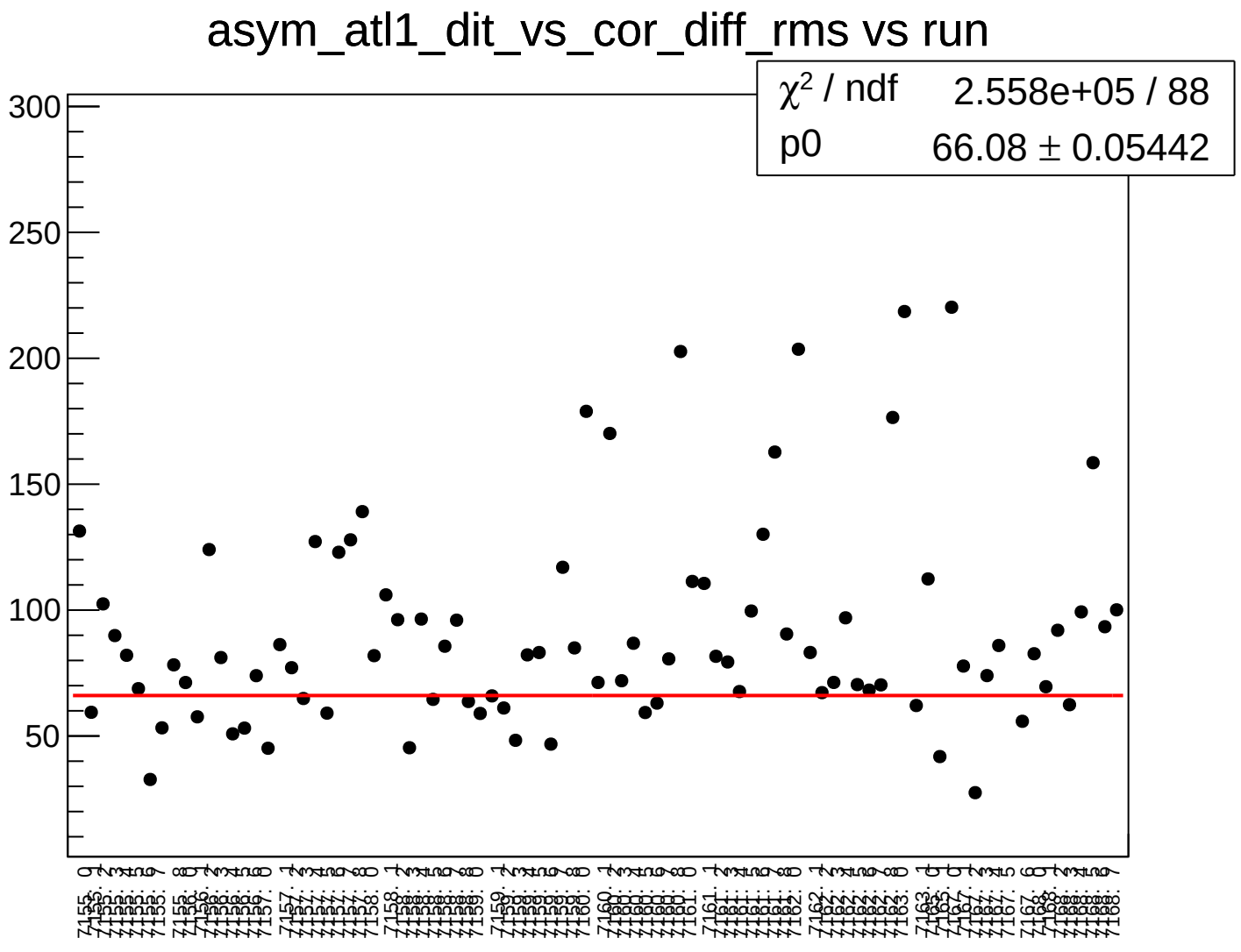

pull1D
Entries 89
Mean −0.01392
Std Dev 0.9992
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

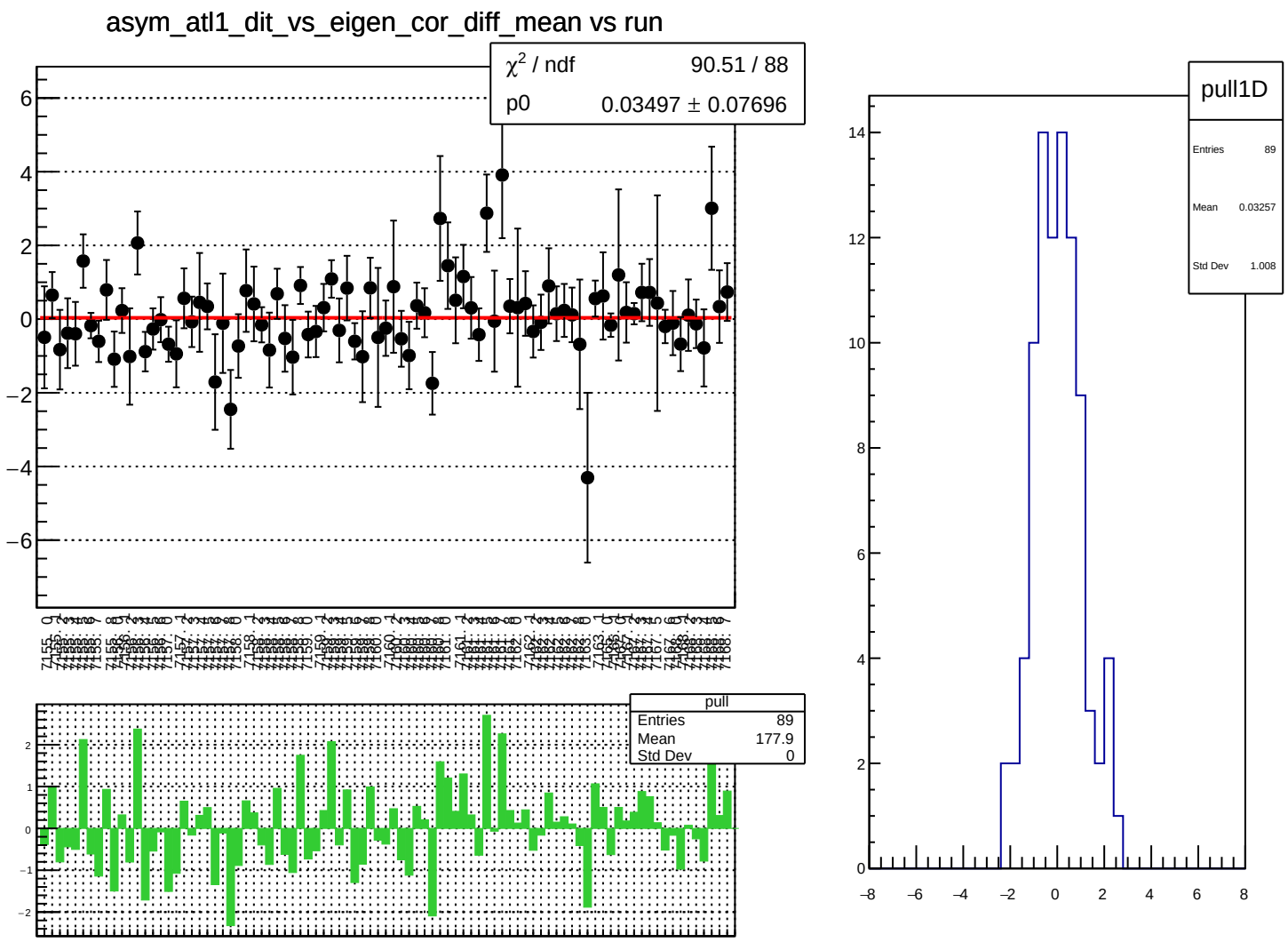

asym_atl1_rms vs run
χ² / ndf 713.4 / 88
p0 2550 ± 1.939
2850
2800
2750
2700
2650
2600
2550
2500
2450

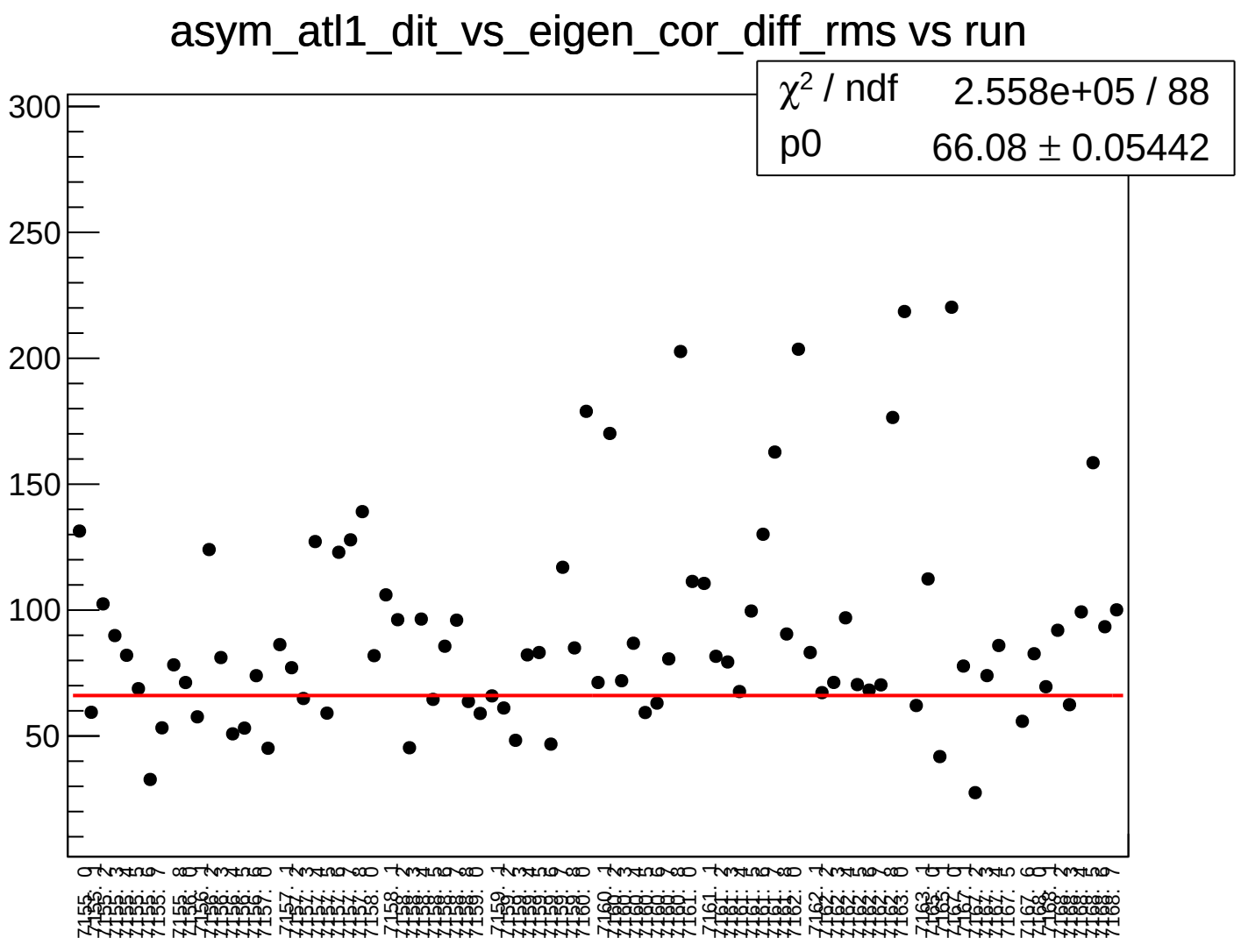

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 75.78 / 88
p0 1.188e−14 ± 4.643e−14
pull
Entries 89
Mean 60.96
Std Dev 0
pull1D
Entries 89
Mean −0.07652
Std Dev 0.9196

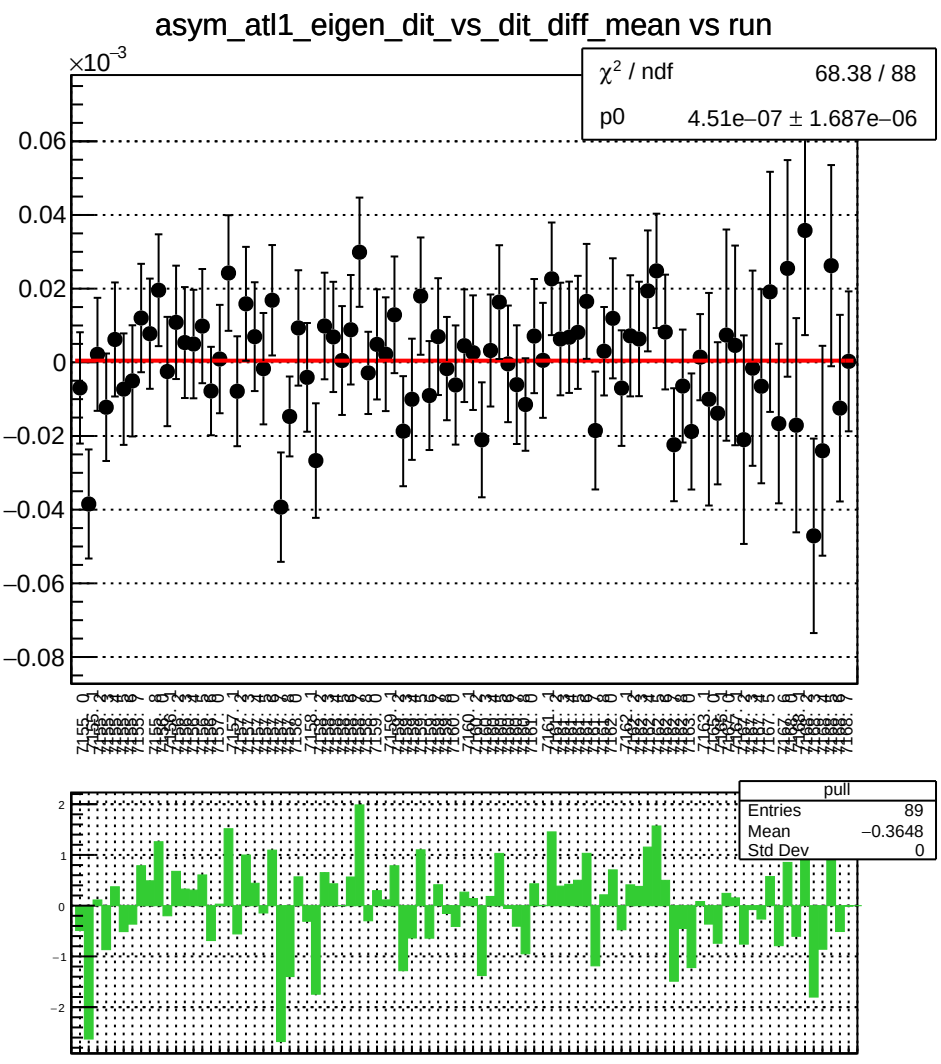

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.09e+06 / 88
p0 2.626e−11 ± 3.283e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

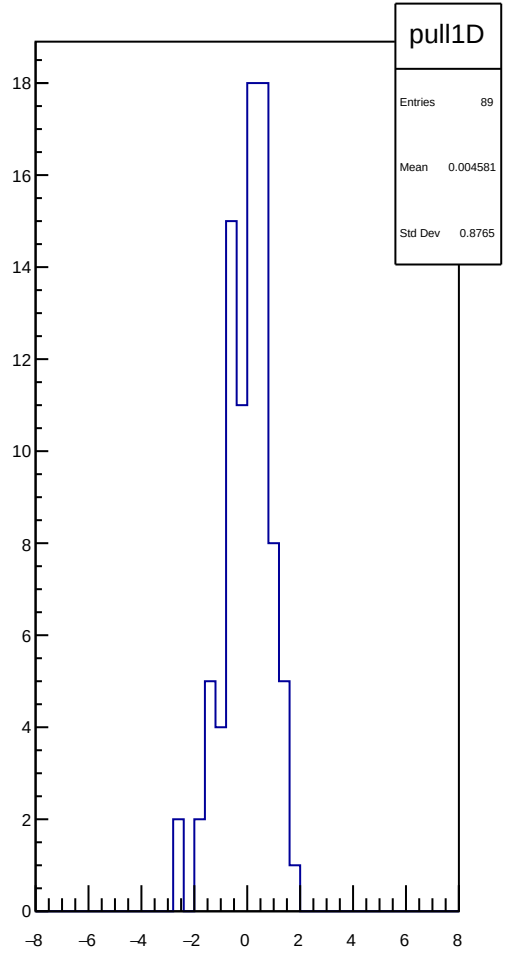

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 88
p0 0.03497 ± 0.07696
pull
Entries 89
Mean 177.9
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 1.008

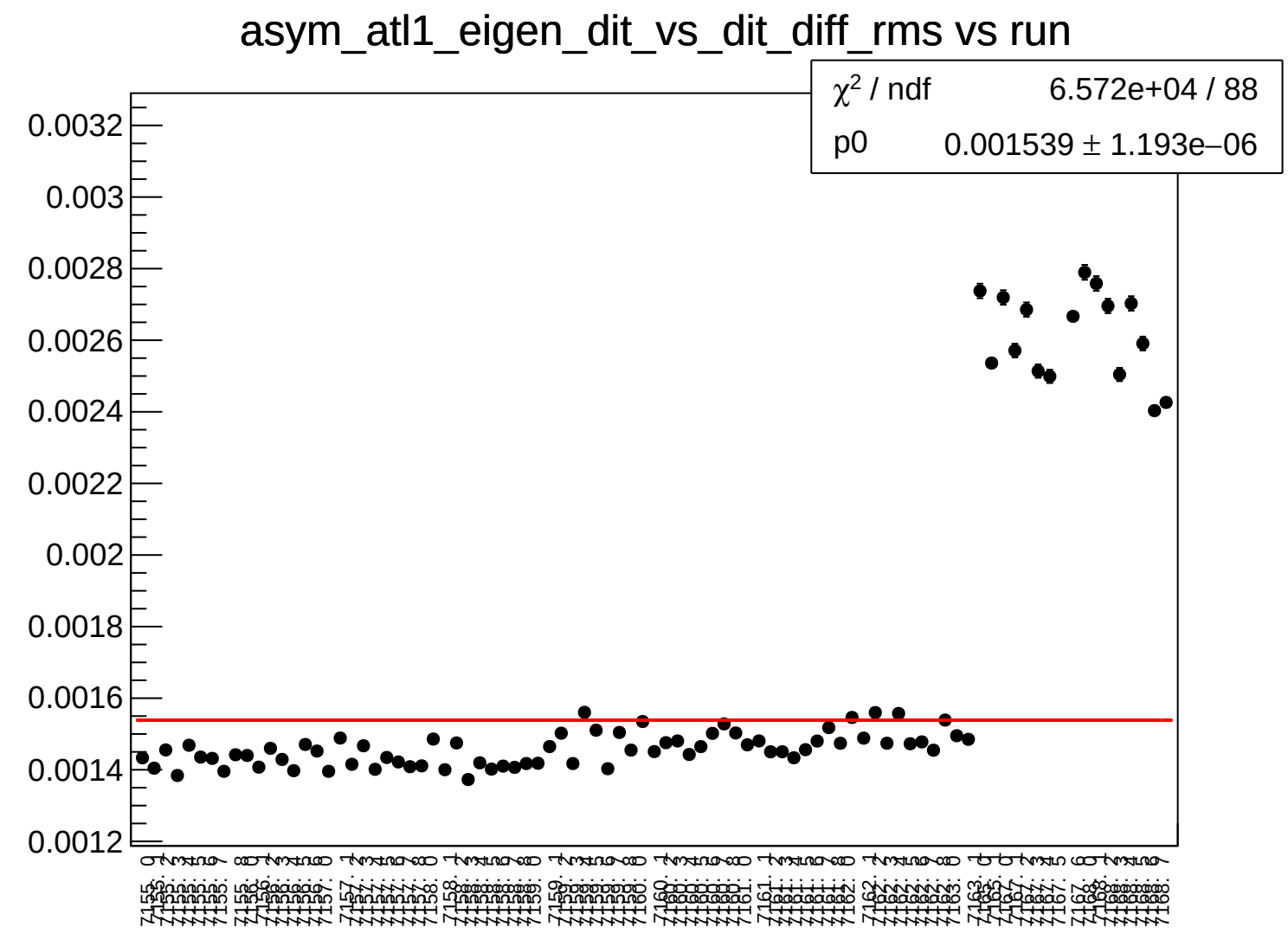

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.558e+05 / 88
p0 66.08 ± 0.05442
300
250
200
150
100
50

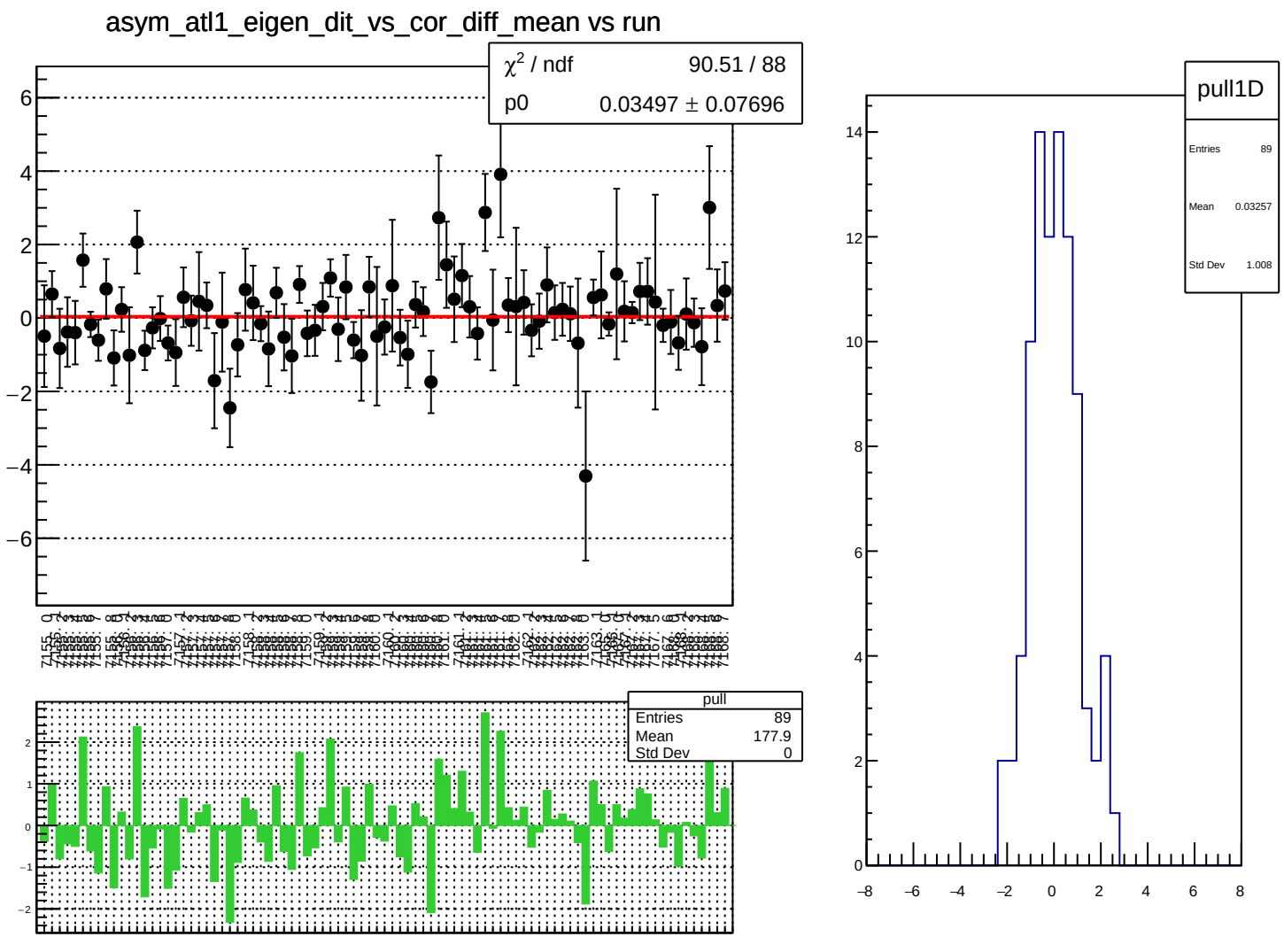

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.51 / 88
p0 0.03497 ± 0.07696
pull
Entries 89
Mean 177.9
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 1.008

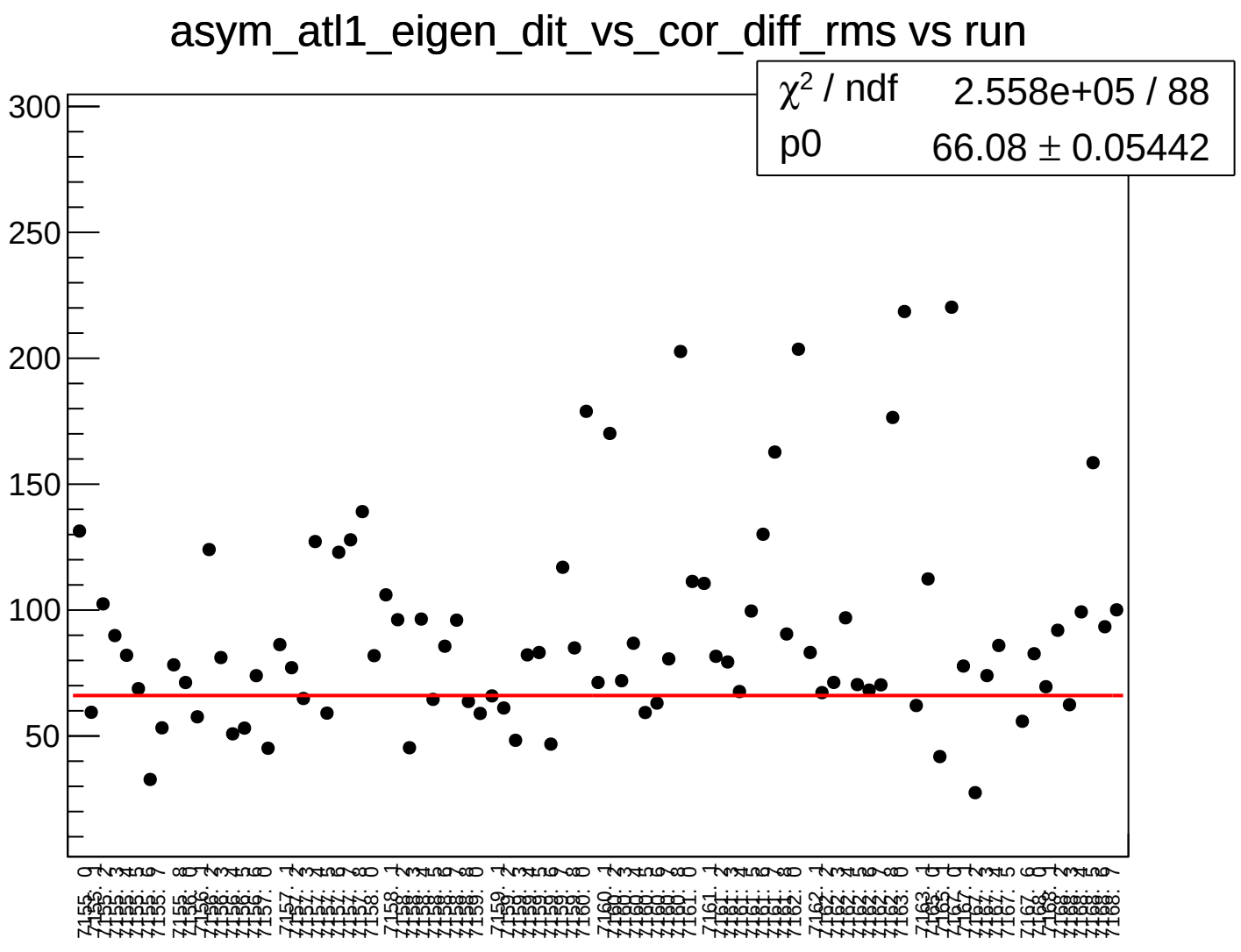

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.558e+05 / 88
p0 66.08 ± 0.05442
300
250
200
150
100
50

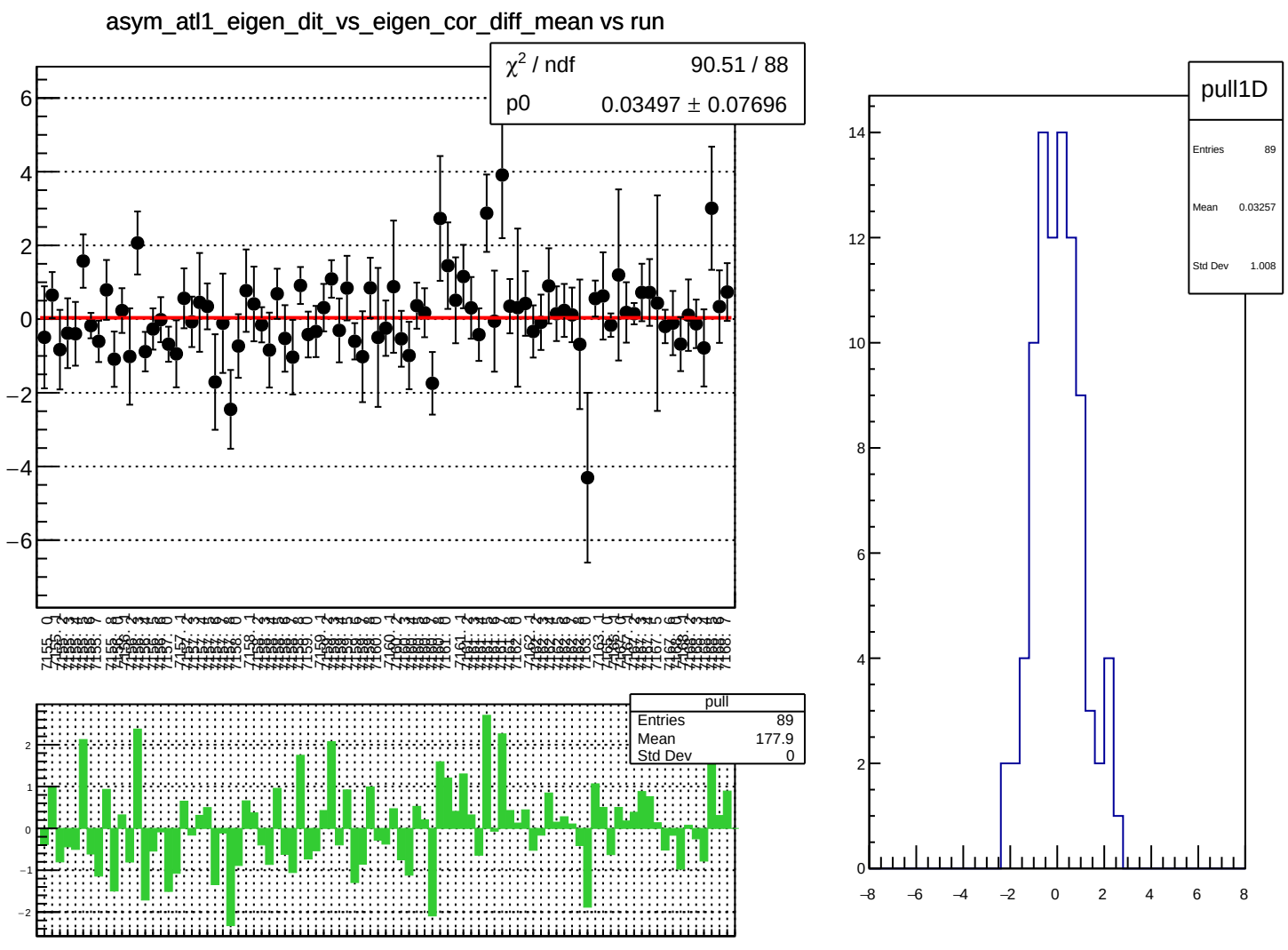

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.38 / 88
p0 4.51e−07 ± 1.687e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −0.3648
Std Dev 0
2
1
0
−1
−2

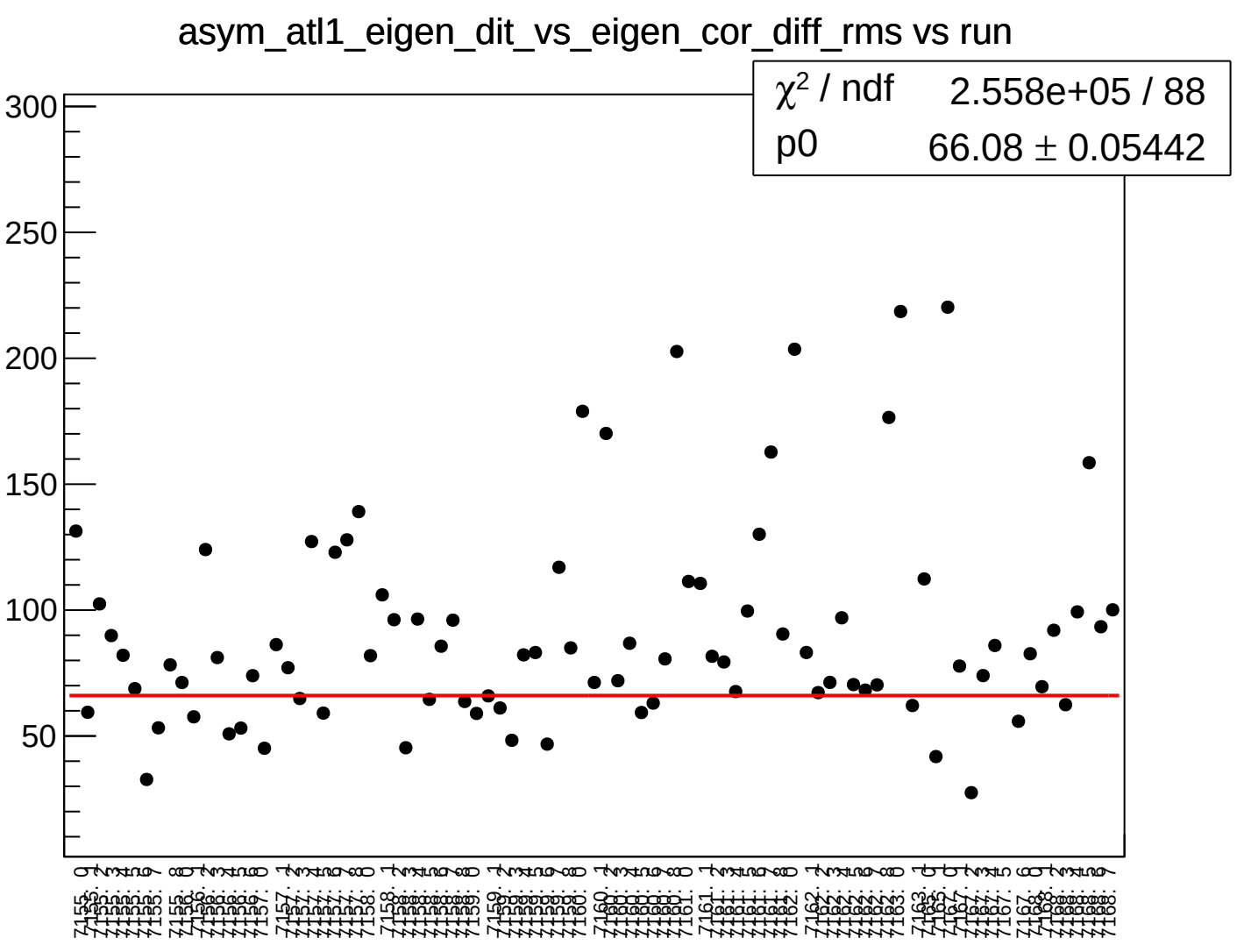

pull1D
Entries 89
Mean 0.004581
Std Dev 0.8765
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

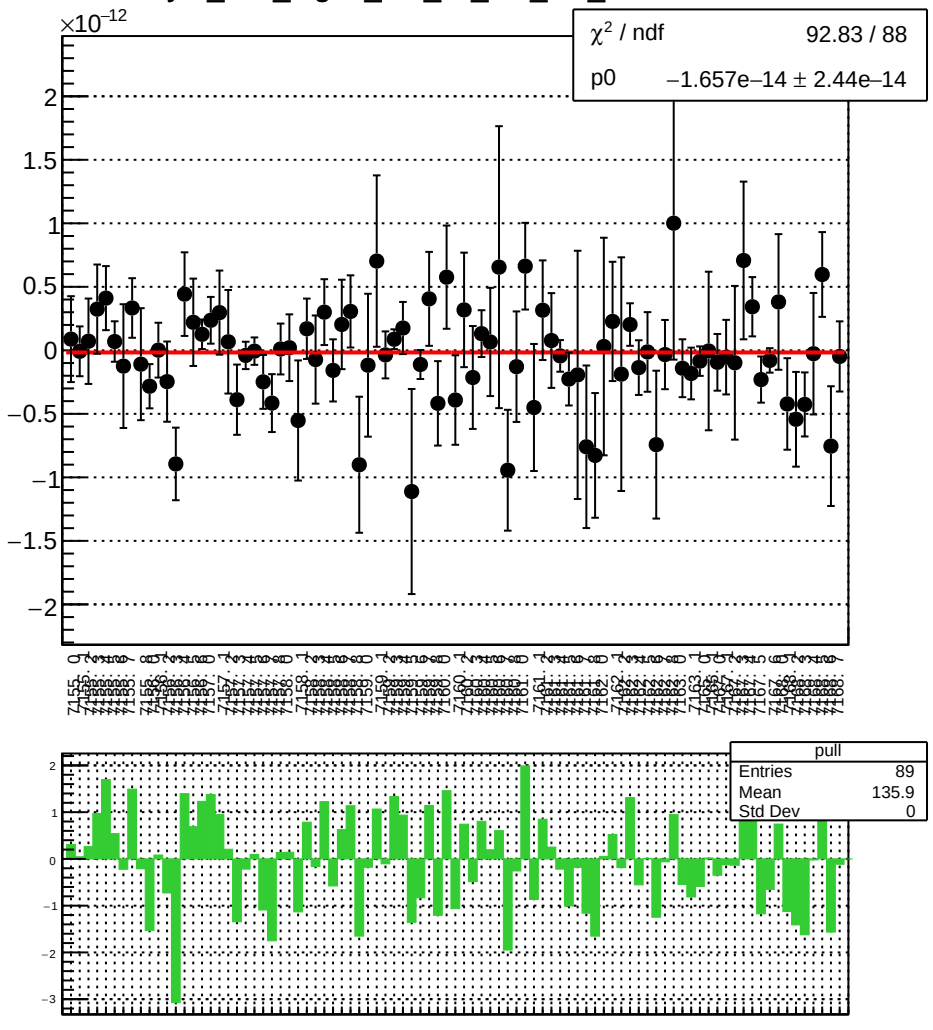

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.572e+04 / 88
p0 0.001539 ± 1.193e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

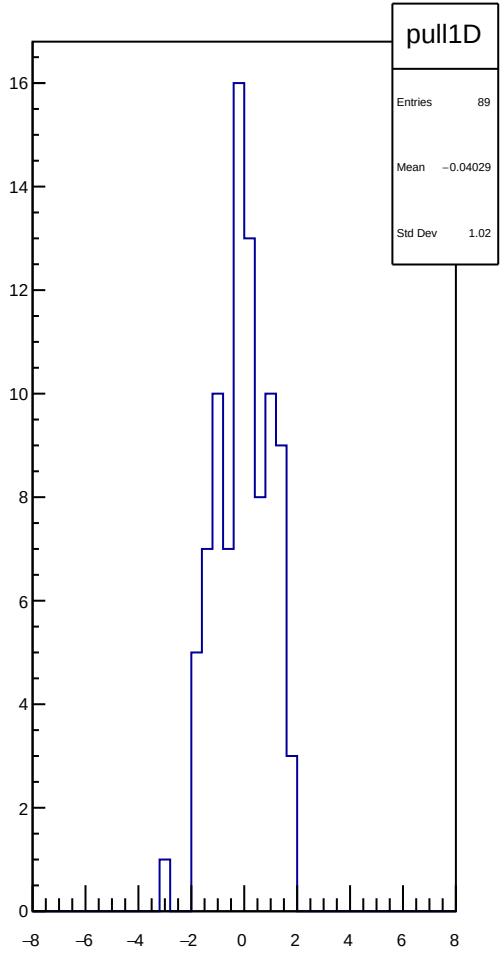

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.51 / 88
p0 0.03497 ± 0.07696
pull
Entries 89
Mean 177.9
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 1.008

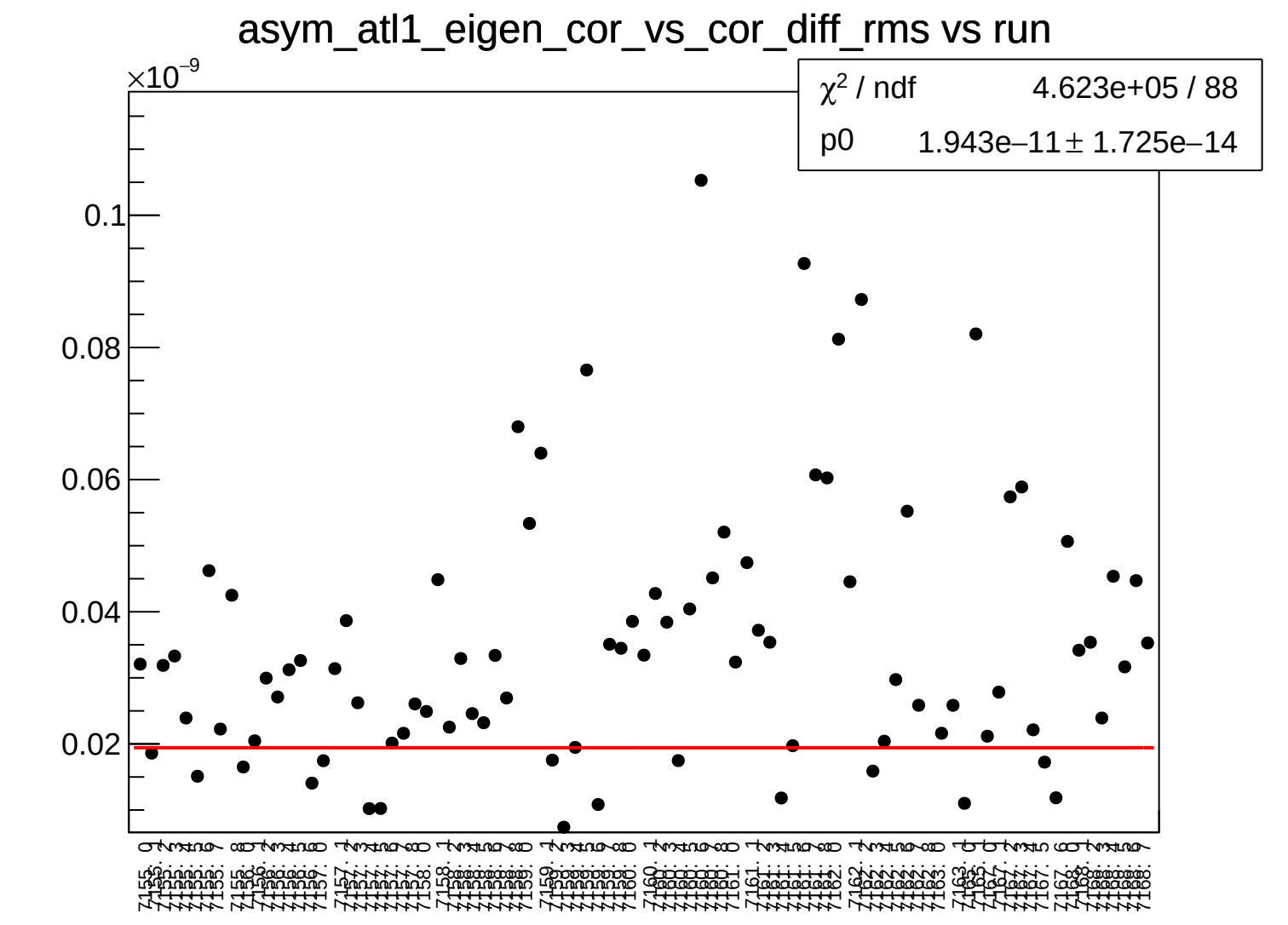

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.558e+05 / 88
p0 66.08 ± 0.05442
300
250
200
150
100
50

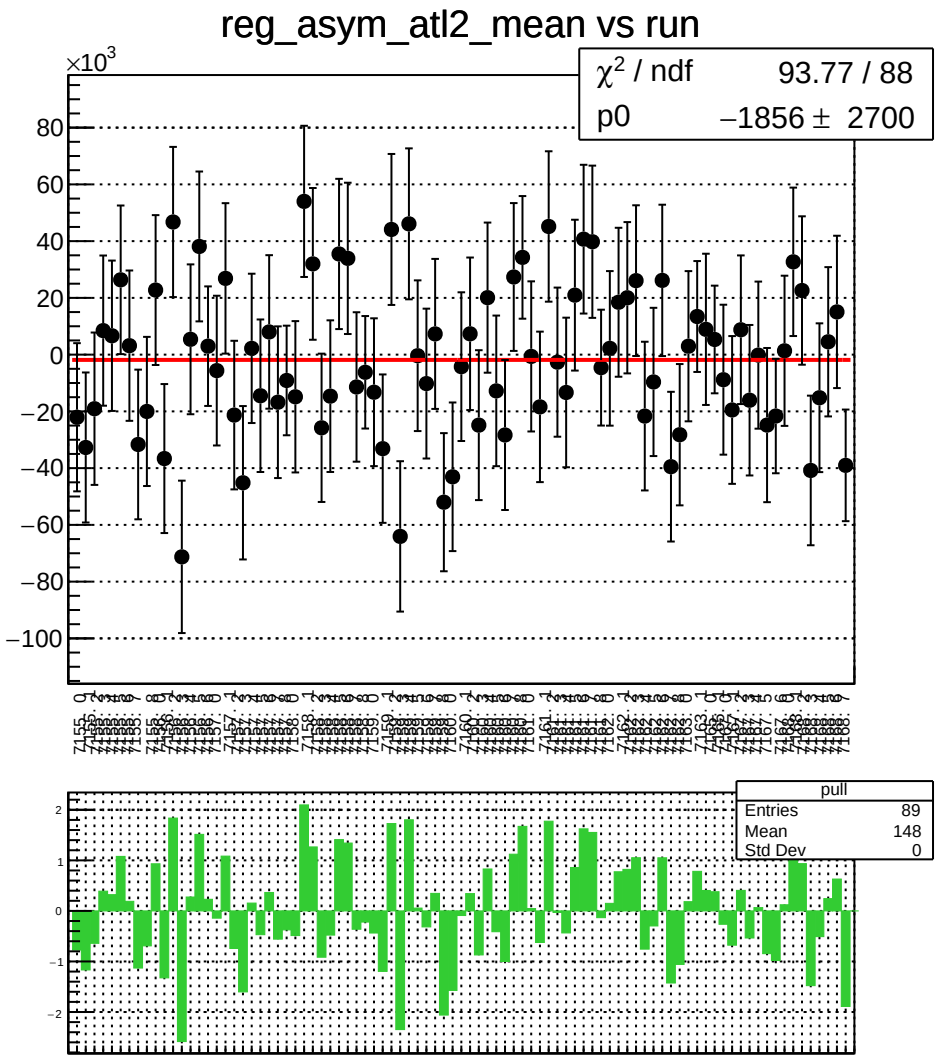

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.51 / 88
p0 0.03497 ± 0.07696
pull
Entries 89
Mean 177.9
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 1.008

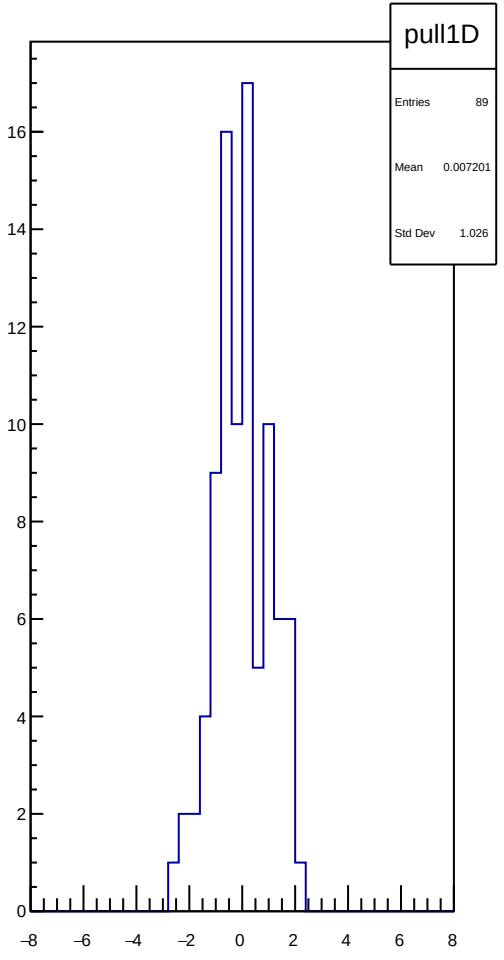

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.558e+05 / 88
p0 66.08 ± 0.05442
300
250
200
150
100
50

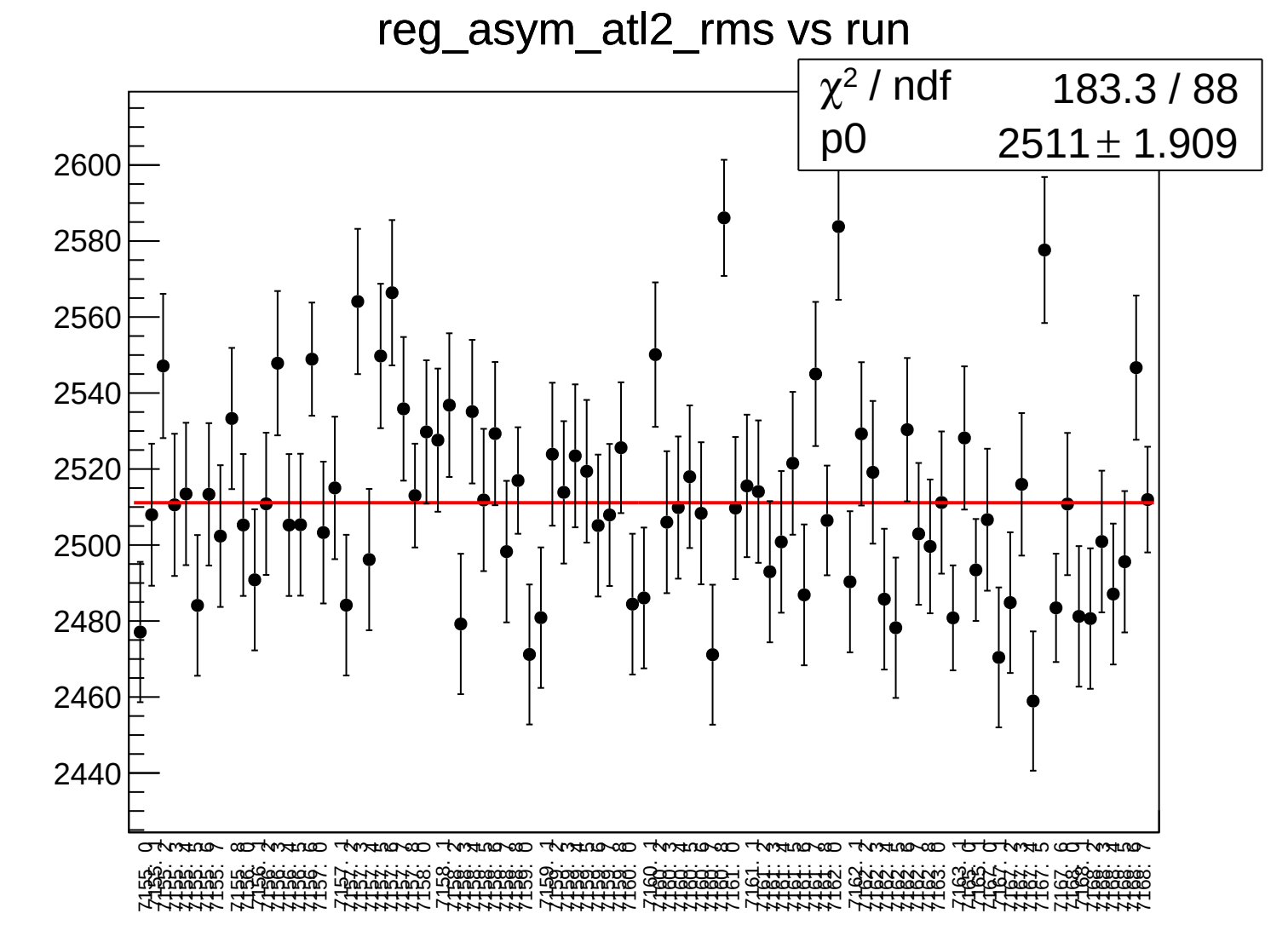

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.83 / 88
p0 −1.657e−14 ± 2.44e−14
pull
Entries 89
Mean 135.9
Std Dev 0

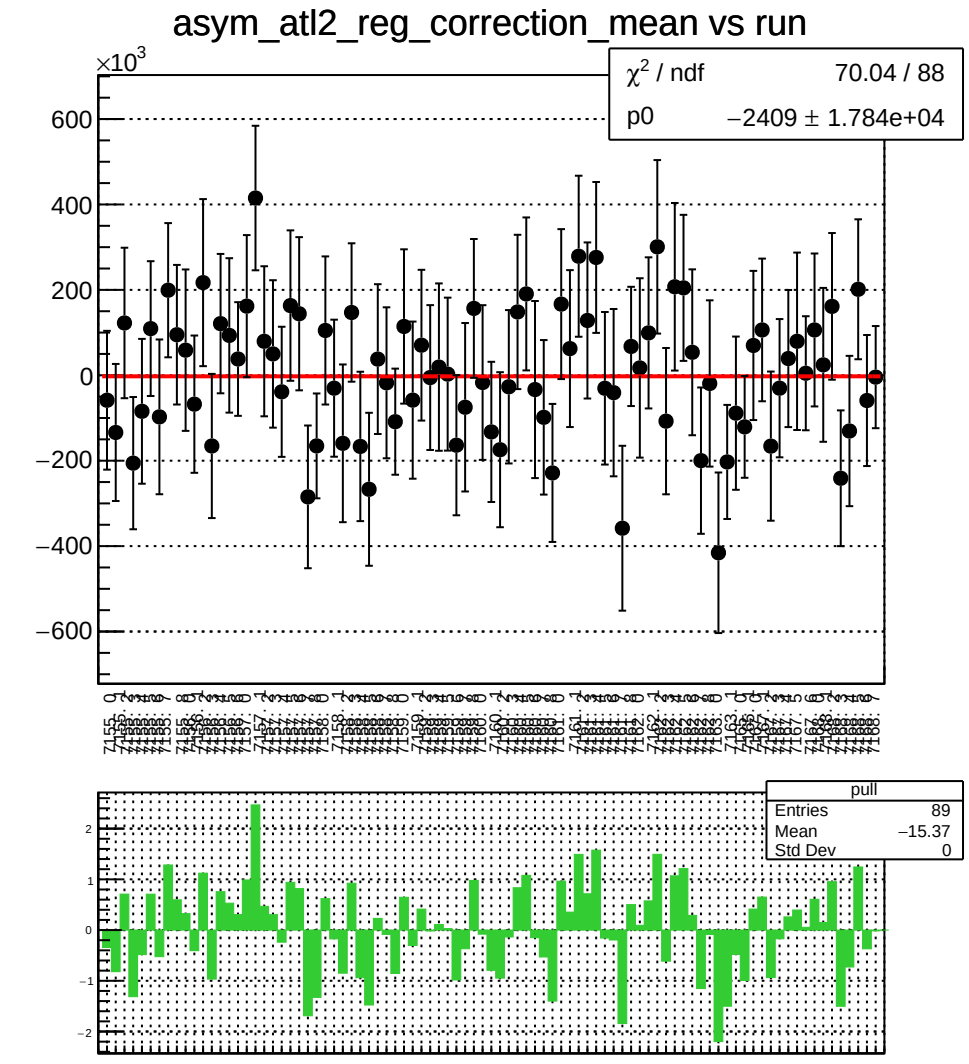

pull1D
Entries 89
Mean −0.04029
Std Dev 1.02

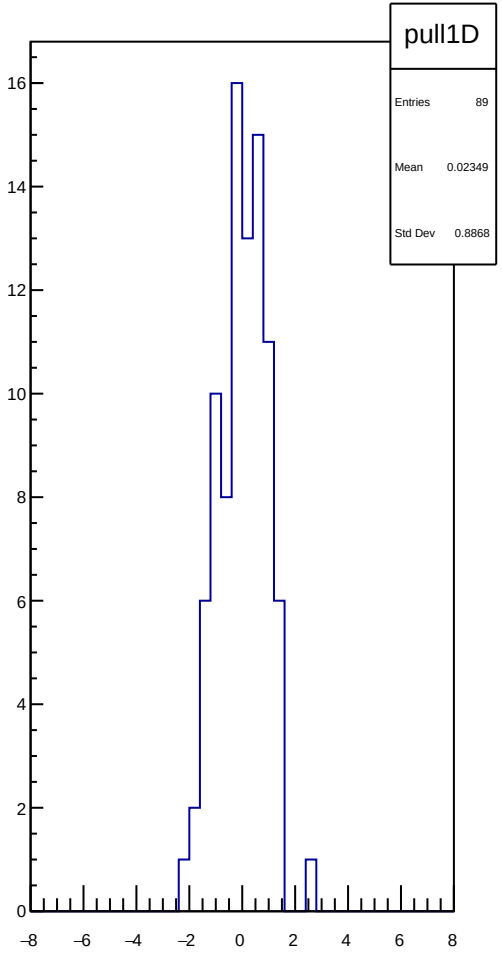

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.623e+05 / 88
p0 1.943e−11 ± 1.725e−14
0.1
0.08
0.06
0.04
0.02

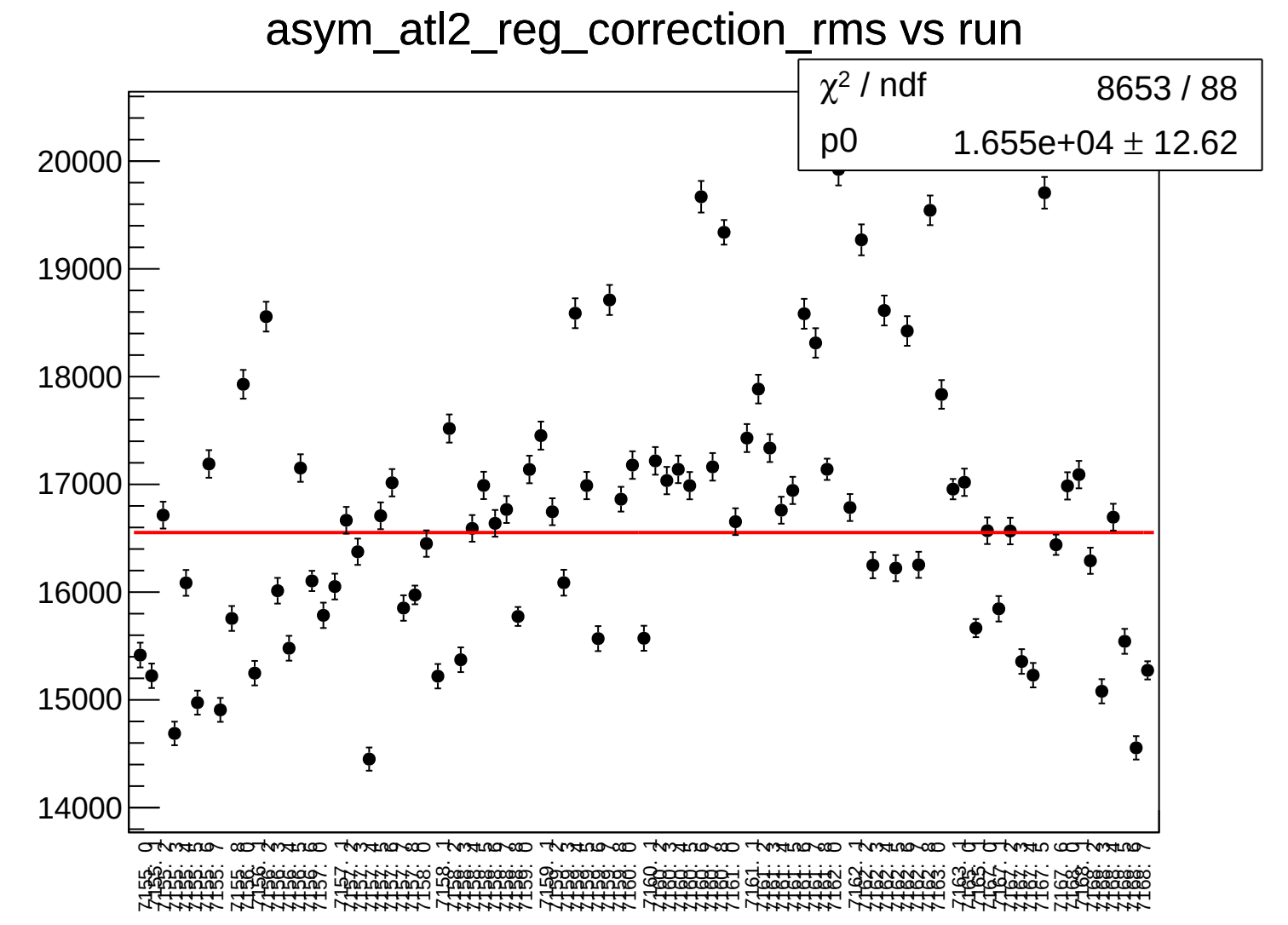

reg_asym_atl2_mean vs run
×10^3
χ² / ndf 93.77 / 88
p0 −1856 ± 2700
pull
Entries 89
Mean 148
Std Dev 0

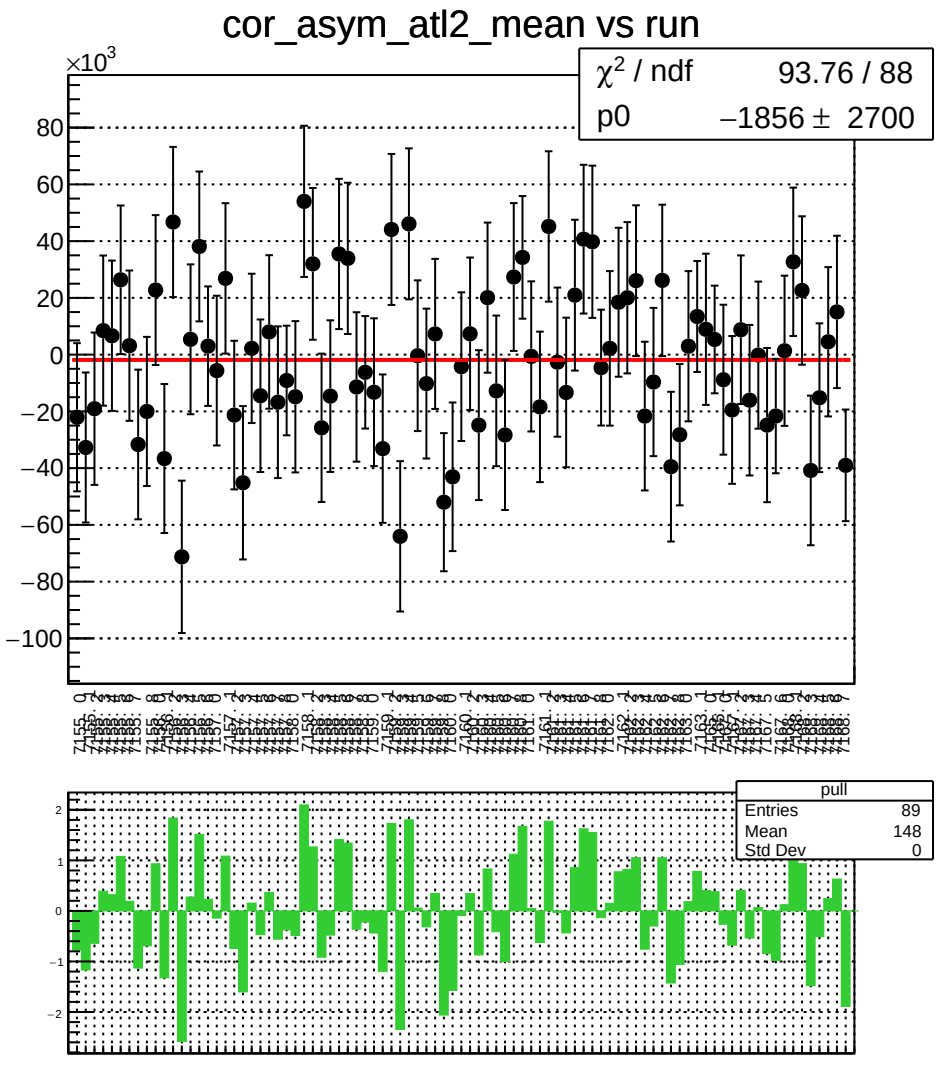

pull1D
Entries 89
Mean 0.007201
Std Dev 1.026

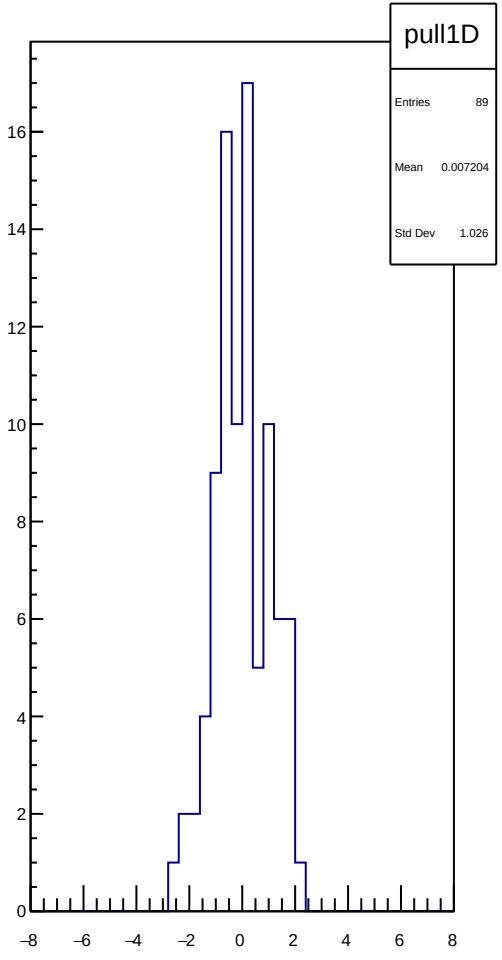

reg_asym_atl2_rms vs run
χ^2 / ndf 183.3 / 88
p0 2511 ± 1.909
2600
2580
2560
2540
2520
2500
2480
2460
2440

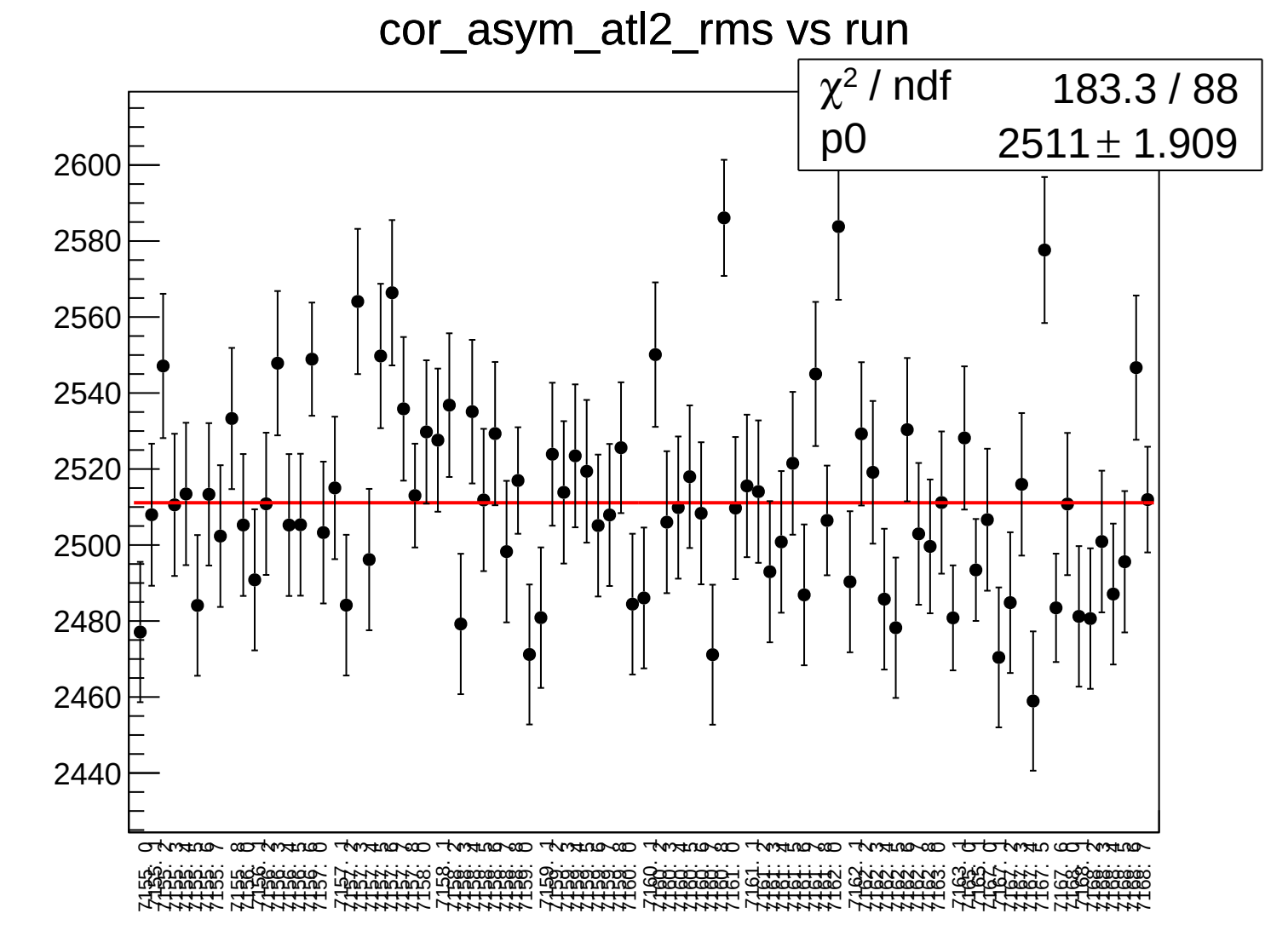

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 70.04 / 88
p0 −2409 ± 1.784e+04
pull
Entries 89
Mean −15.37
Std Dev 0

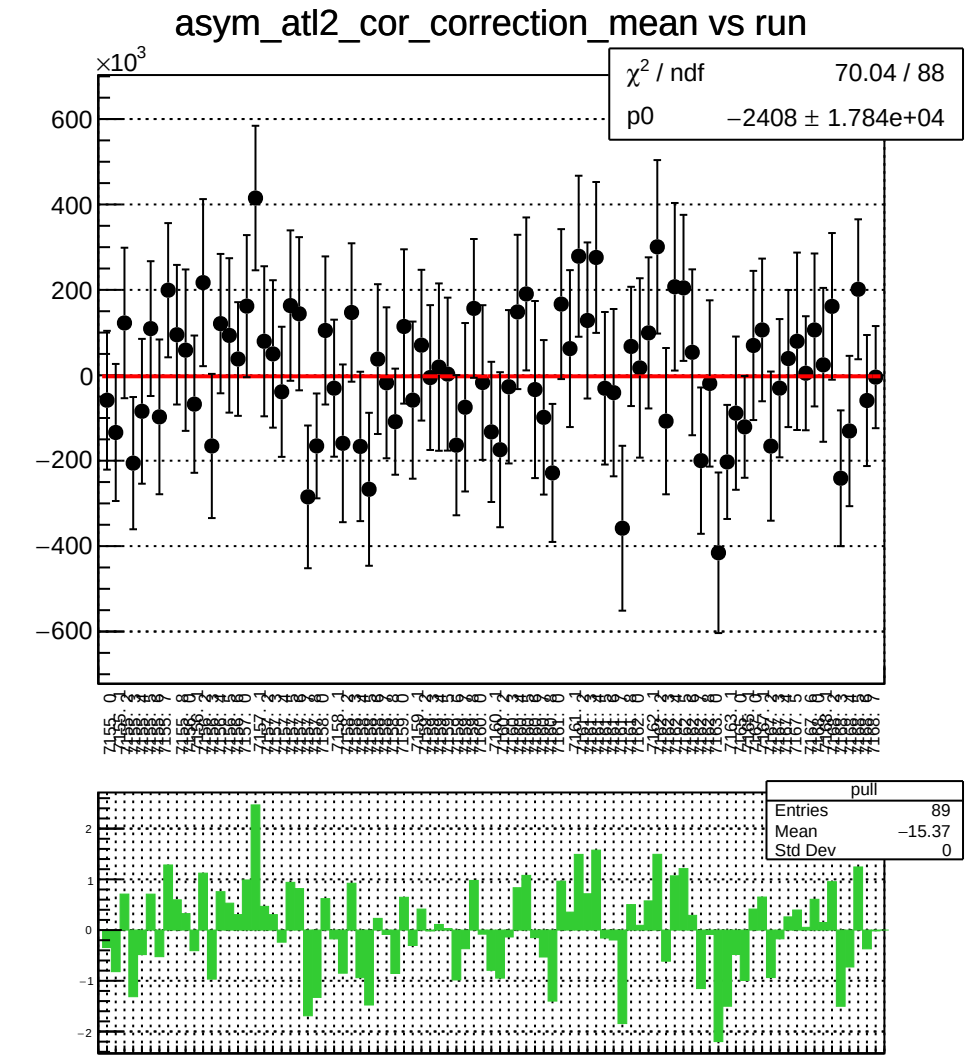

pull1D
Entries 89
Mean 0.02349
Std Dev 0.8868

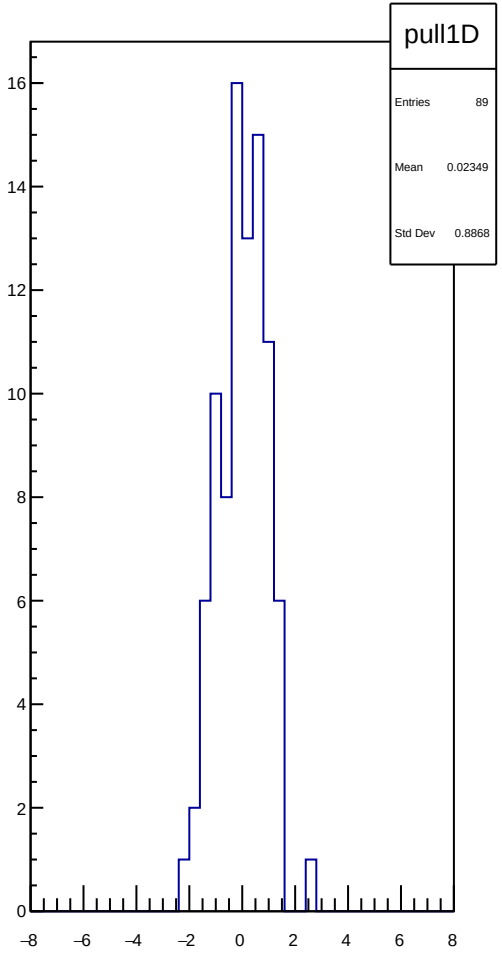

asym_atl2_reg_correction_rms vs run
χ² / ndf 8653 / 88
p0 1.655e+04 ± 12.62
20000
19000
18000
17000
16000
15000
14000

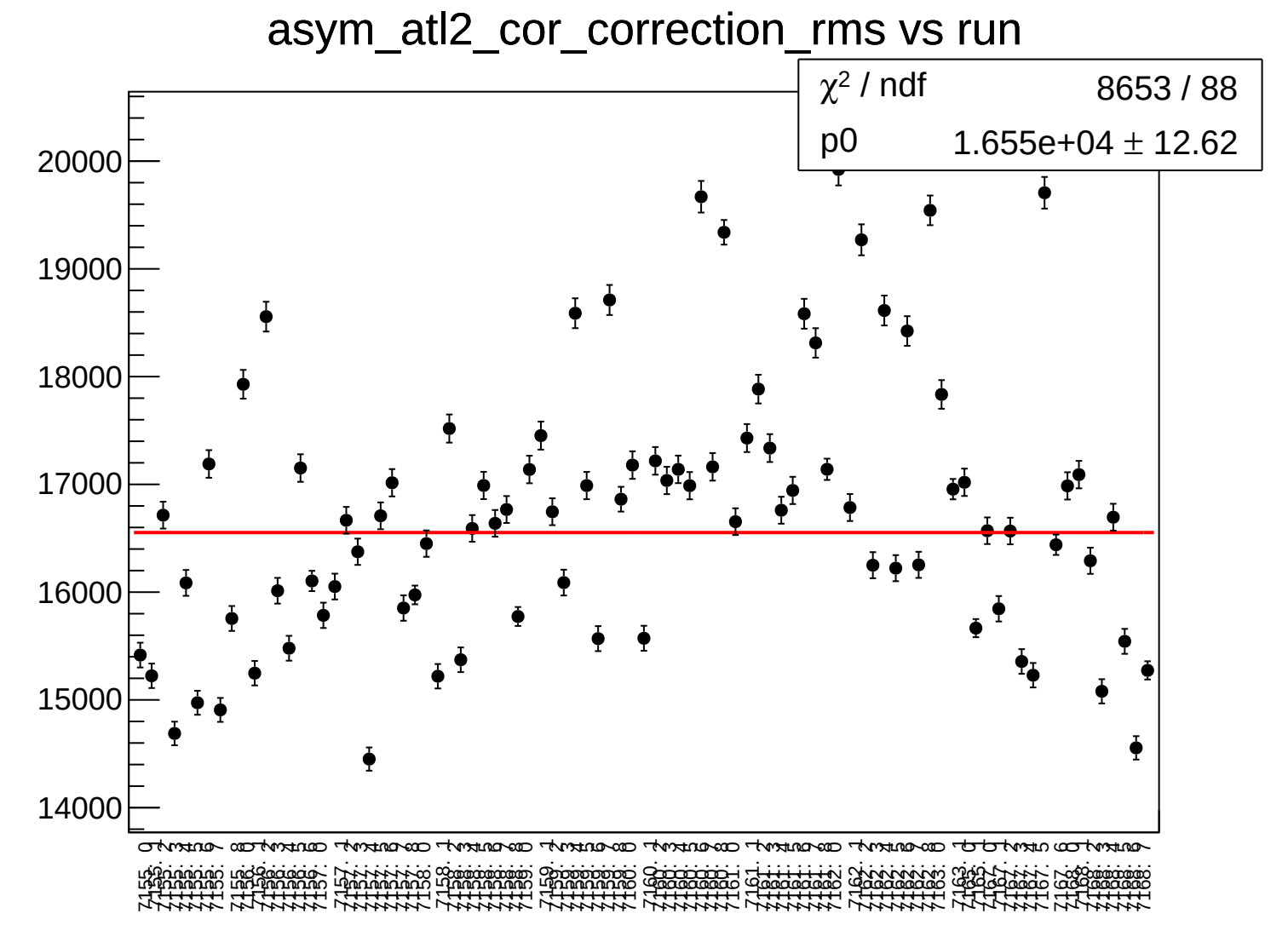

cor_asym_atl2_mean vs run
×10^3
χ² / ndf 93.76 / 88
p0 −1856 ± 2700
pull
Entries 89
Mean 148
Std Dev 0

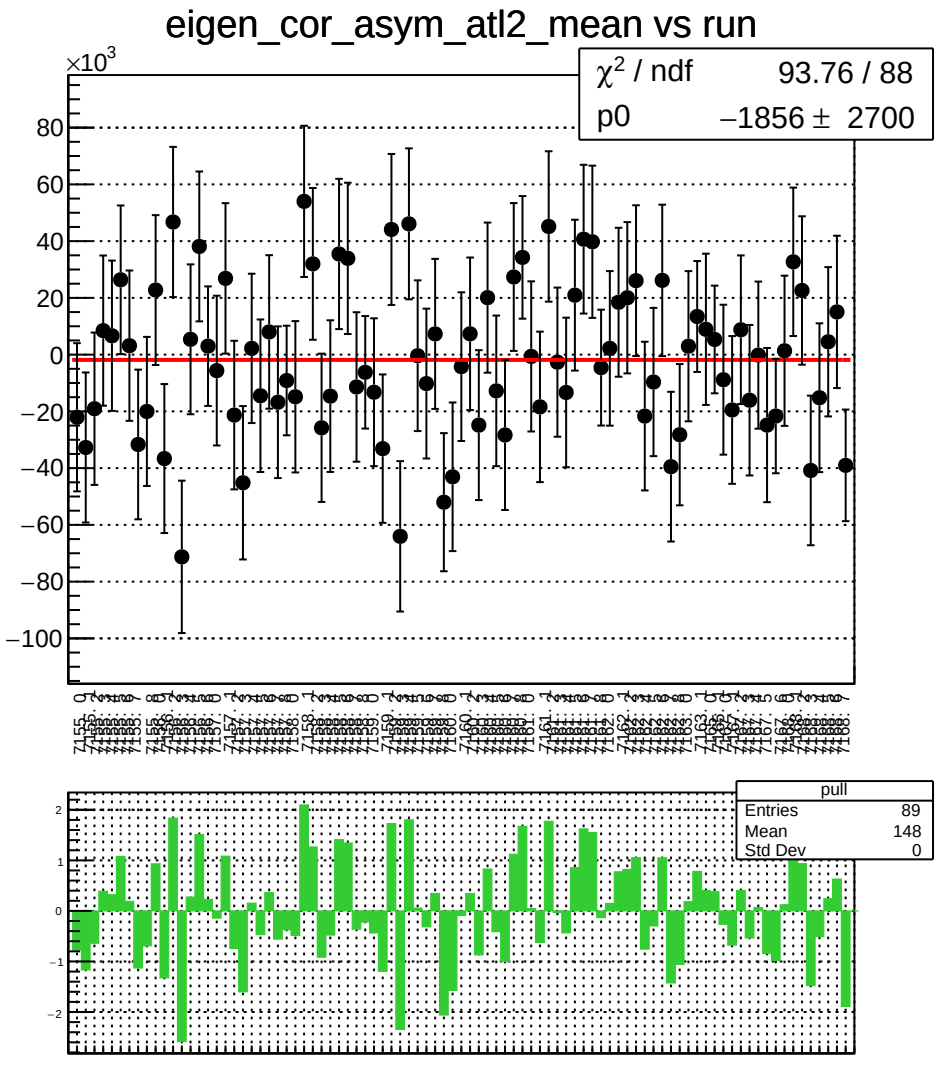

pull1D
Entries 89
Mean 0.007204
Std Dev 1.026

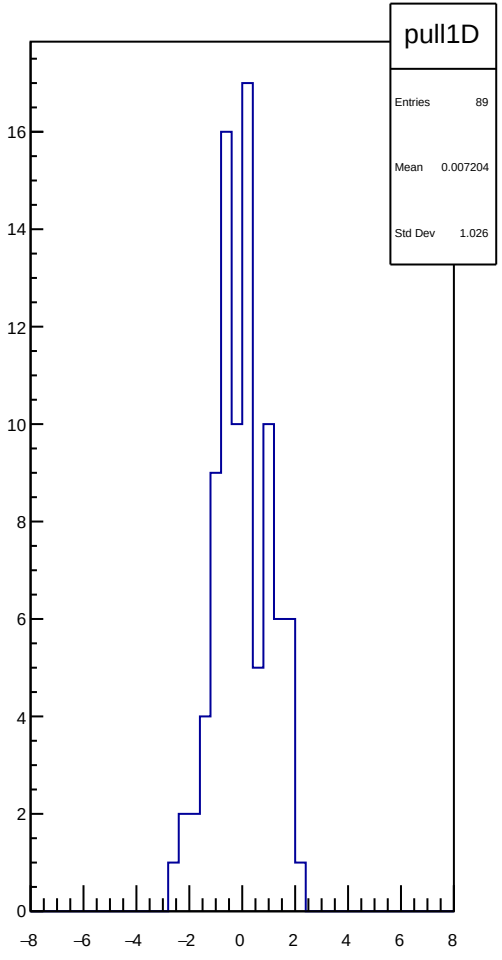

cor_asym_atl2_rms vs run
χ^2 / ndf 183.3 / 88
p0 2511 ± 1.909
2600
2580
2560
2540
2520
2500
2480
2460
2440

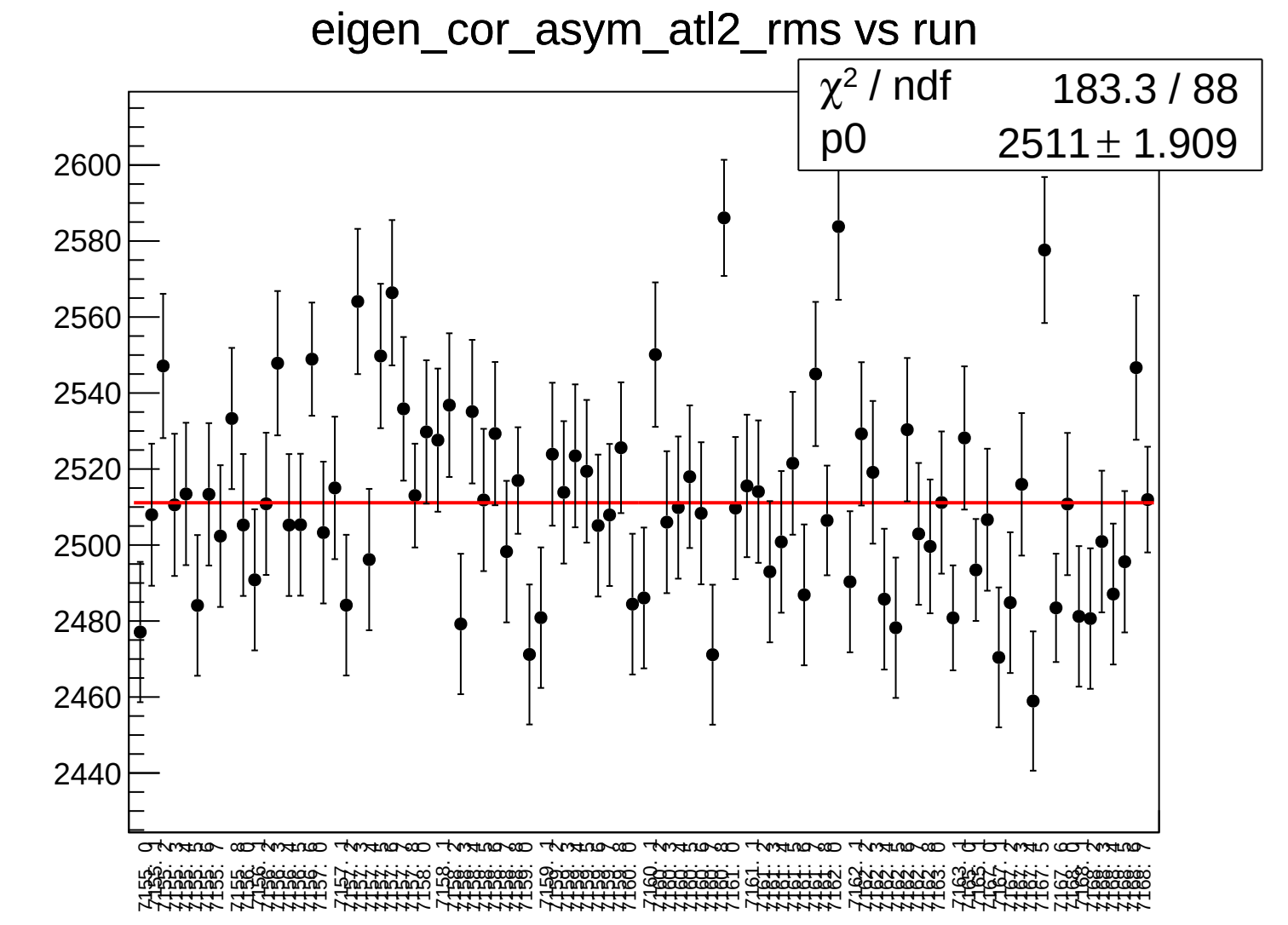

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 70.04 / 88
p0 −2408 ± 1.784e+04
pull
Entries 89
Mean −15.37
Std Dev 0

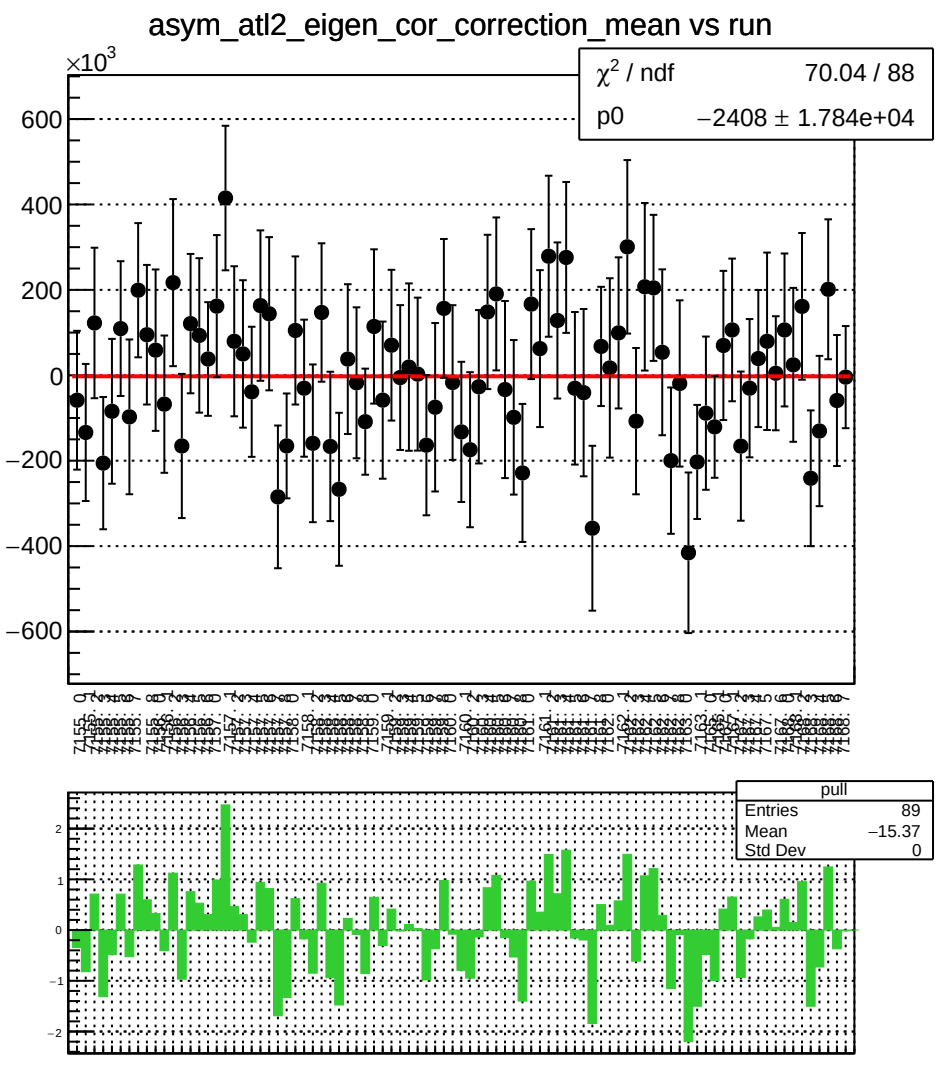

pull1D
Entries 89
Mean 0.02349
Std Dev 0.8868

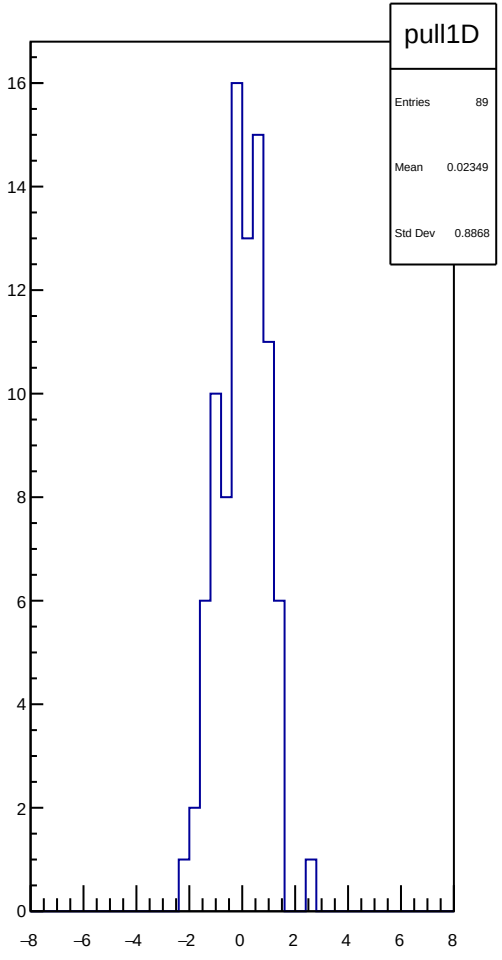

asym_atl2_cor_correction_rms vs run
χ² / ndf 8653 / 88
p0 1.655e+04 ± 12.62
20000
19000
18000
17000
16000
15000
14000

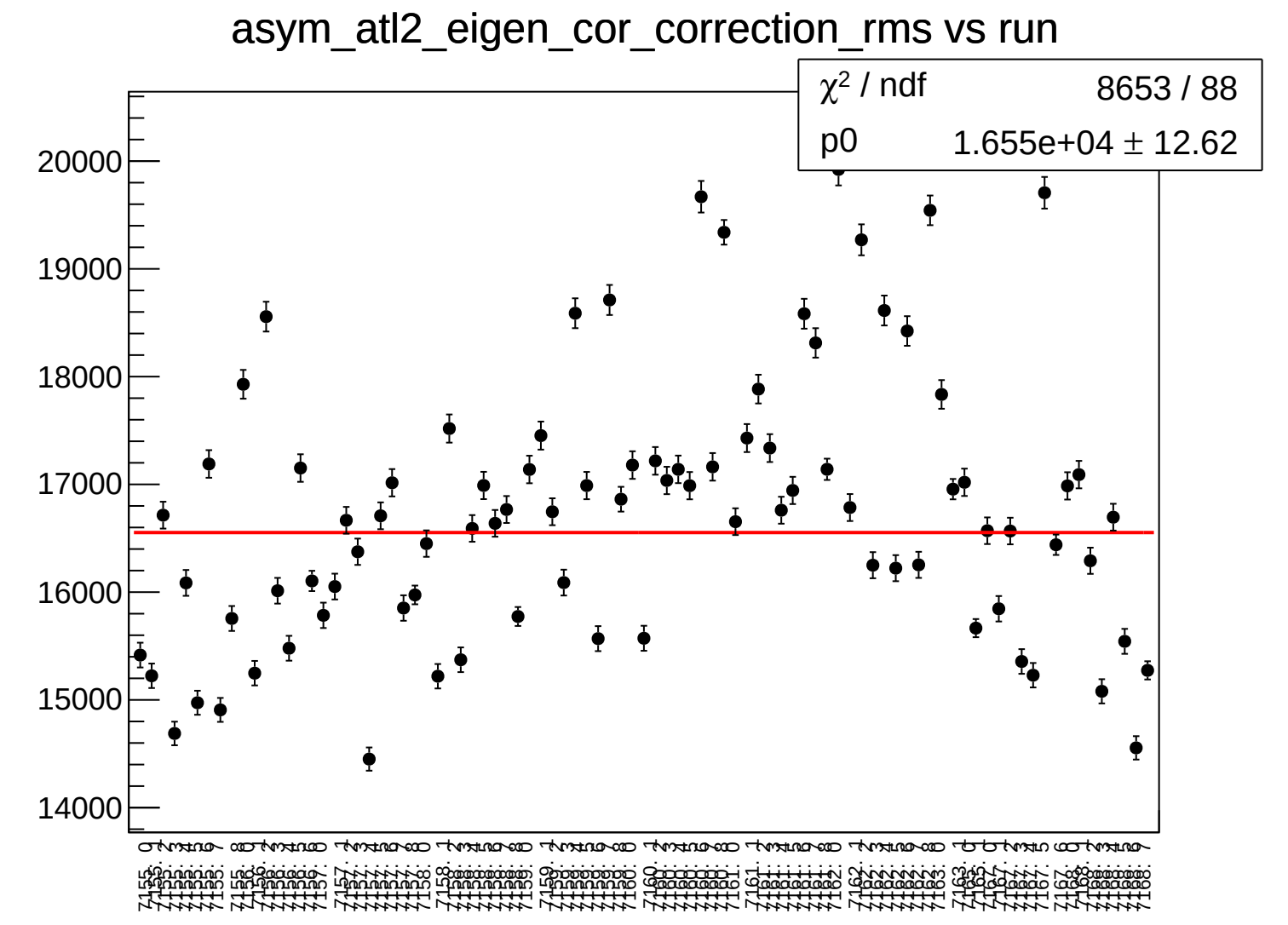

eigen_cor_asym_atl2_mean vs run
×10^3
χ² / ndf 93.76 / 88
p0 −1856 ± 2700
pull
Entries 89
Mean 148
Std Dev 0

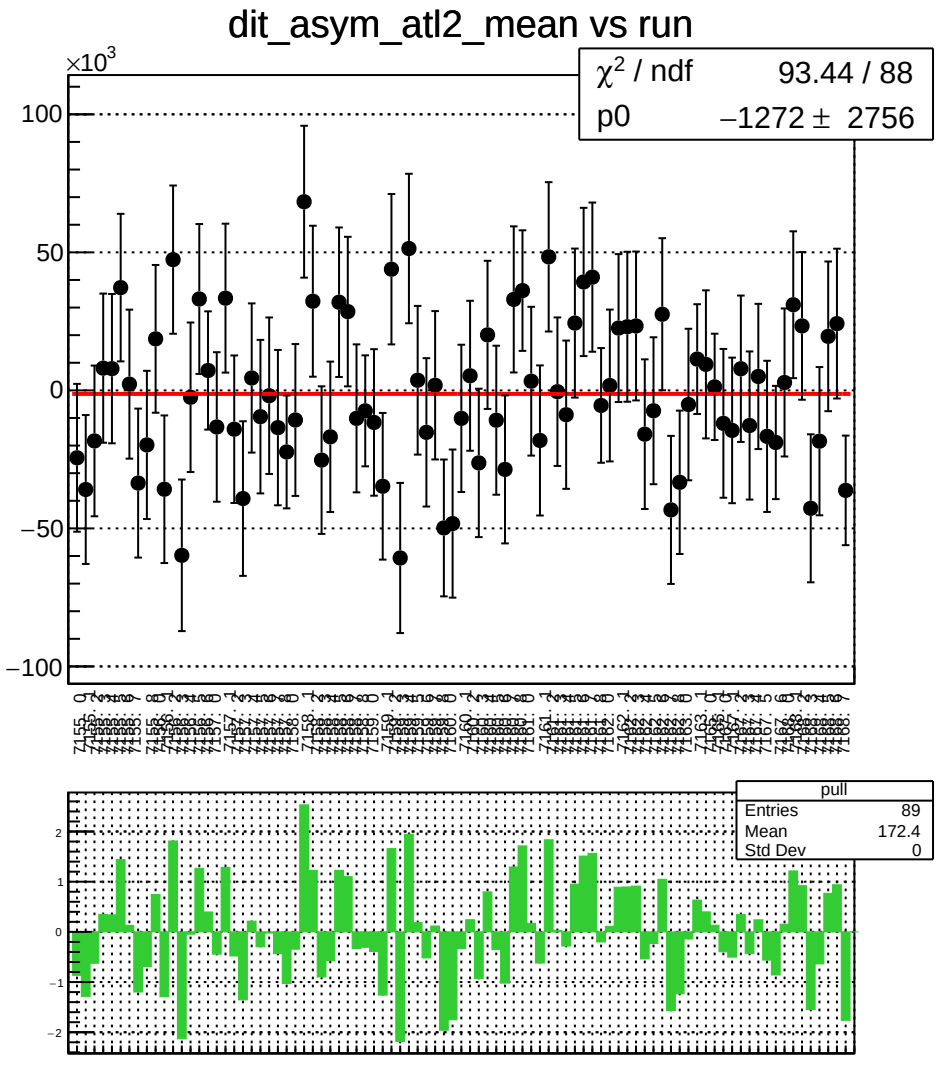

pull1D
Entries 89
Mean 0.007204
Std Dev 1.026

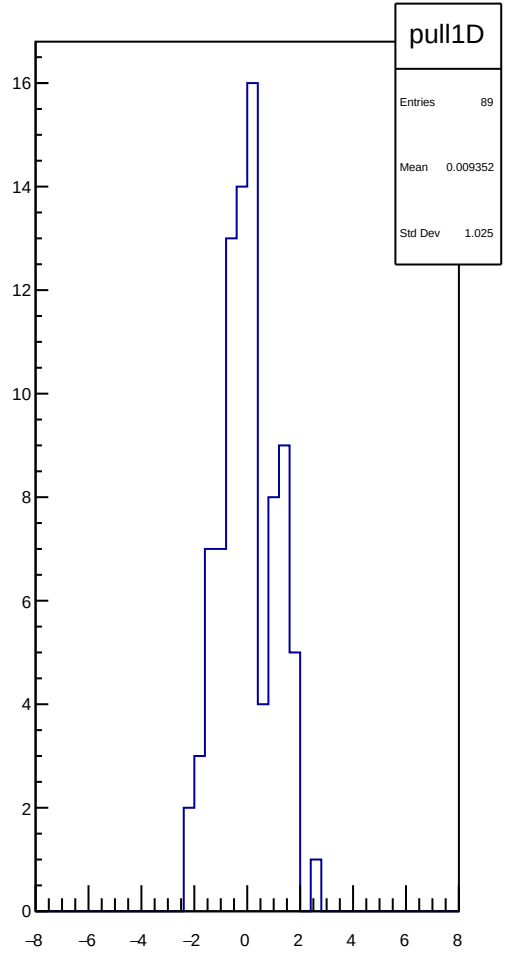

eigen_cor_asym_atl2_rms vs run
χ² / ndf 183.3 / 88
p0 2511 ± 1.909
2600
2580
2560
2540
2520
2500
2480
2460
2440

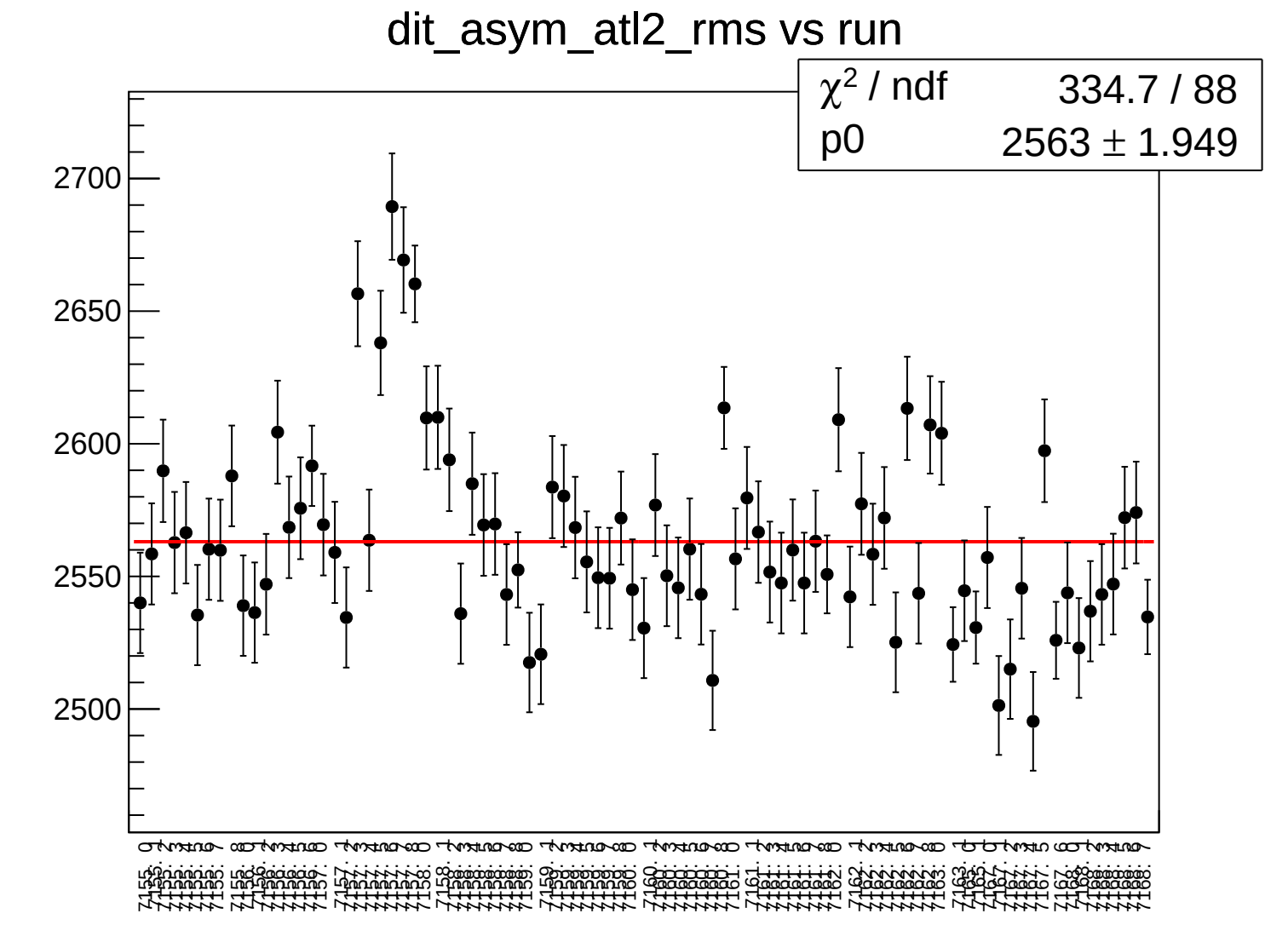

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.04 / 88
p0 −2408 ± 1.784e+04
pull
Entries 89
Mean −15.37
Std Dev 0

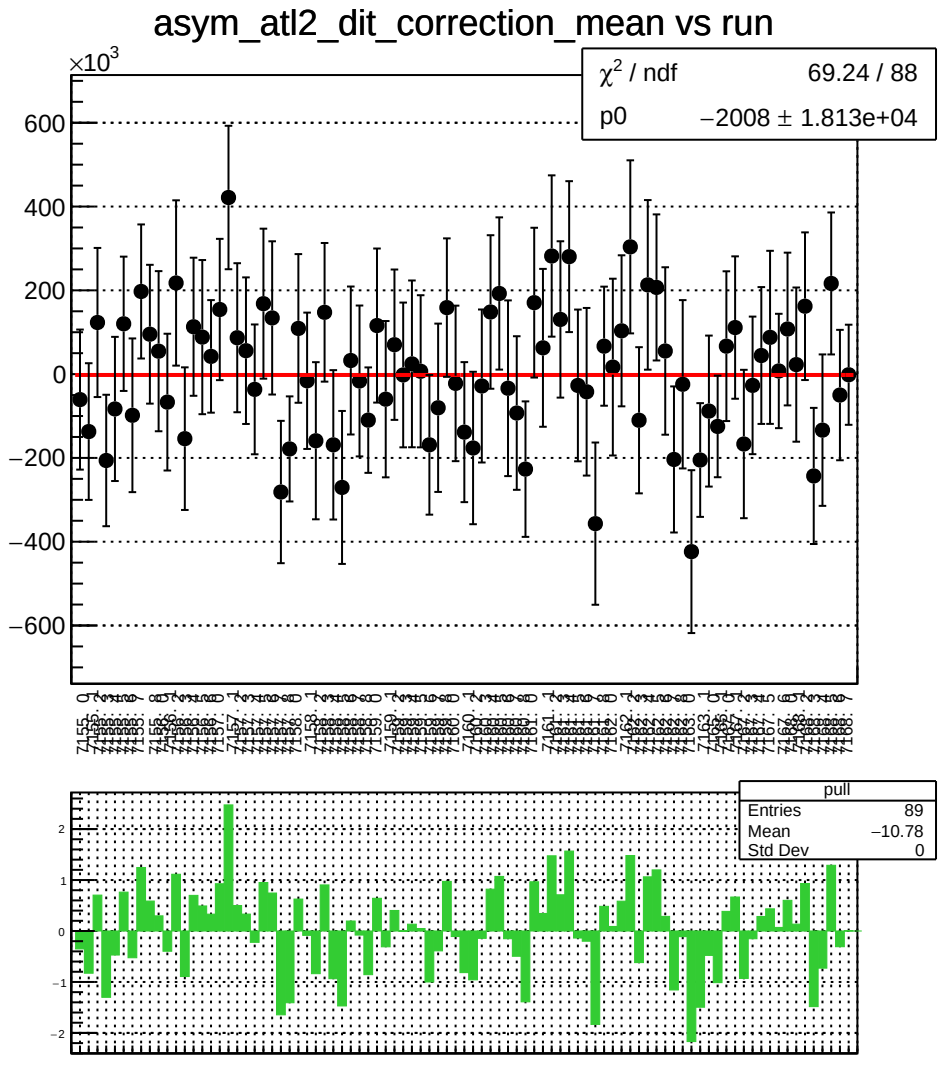

pull1D
Entries 89
Mean 0.02349
Std Dev 0.8868

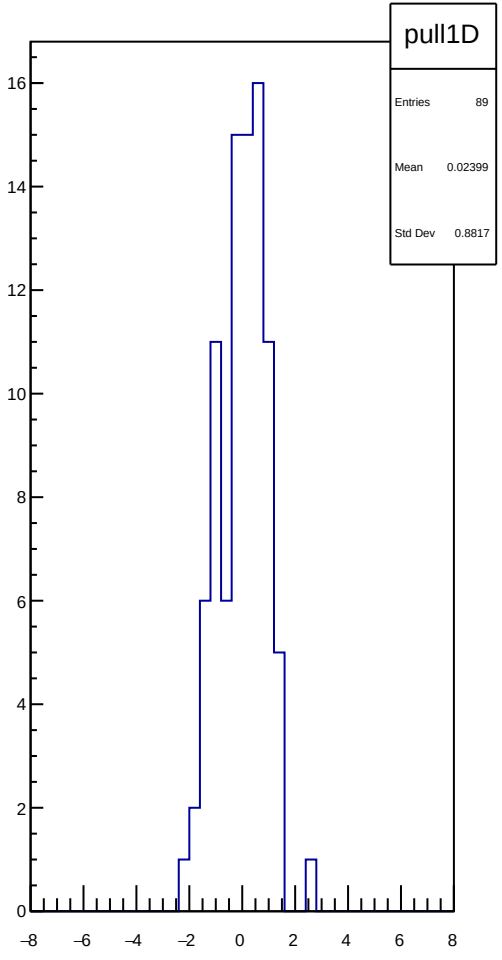

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 8653 / 88
p0 1.655e+04 ± 12.62
20000
19000
18000
17000
16000
15000
14000

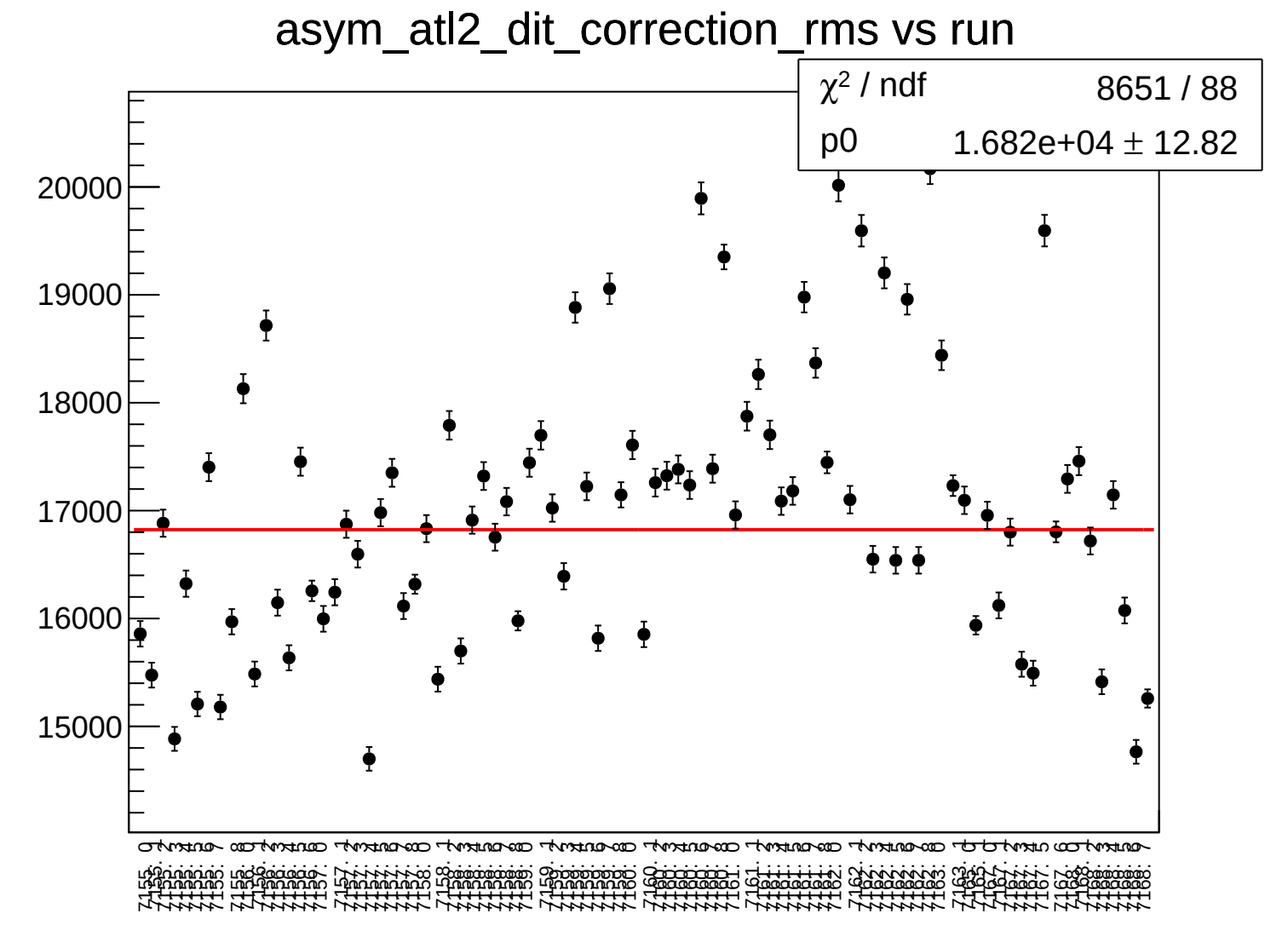

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 93.44 / 88
p0 −1272 ± 2756
100
50
0
−50
−100
pull
Entries 89
Mean 172.4
Std Dev 0
2
1
0
−1
−2

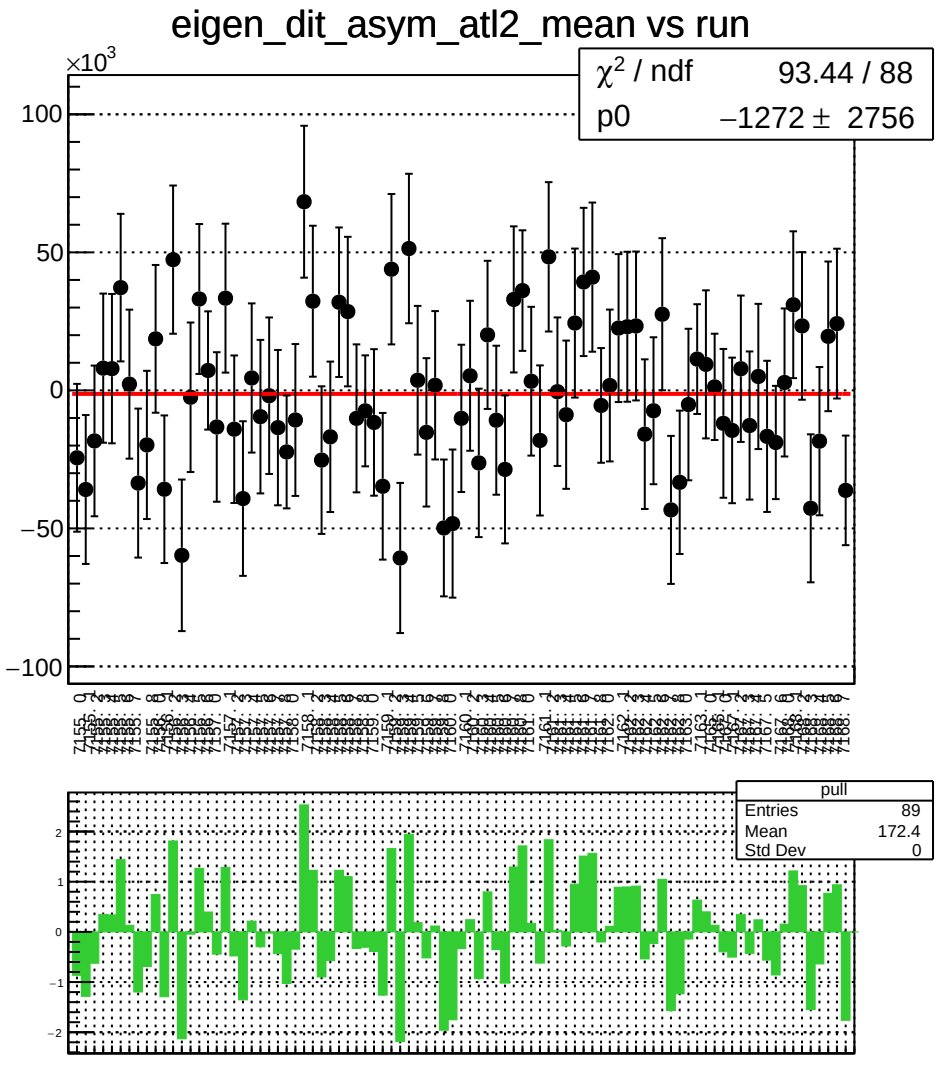

pull1D
Entries 89
Mean 0.009352
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

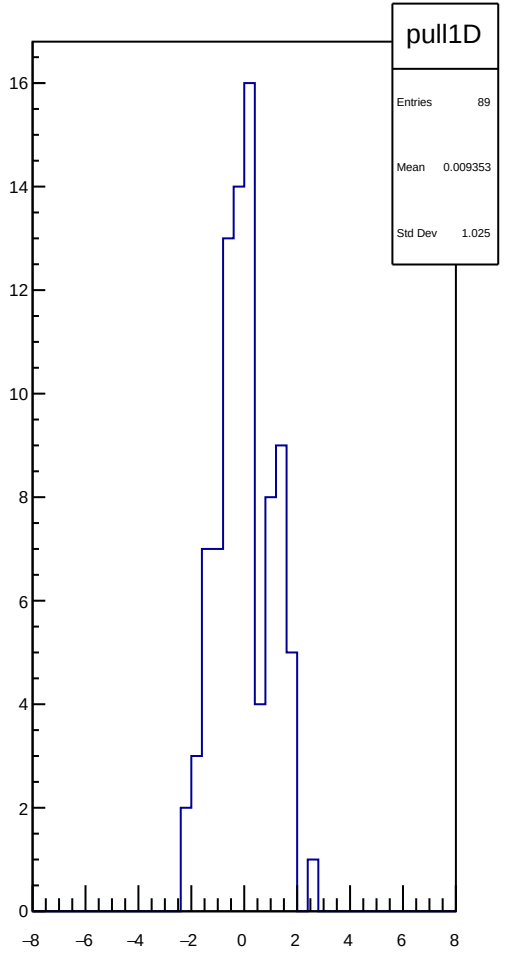

dit_asym_atl2_rms vs run
χ^2 / ndf 334.7 / 88
p0 2563 ± 1.949
2700
2650
2600
2550
2500

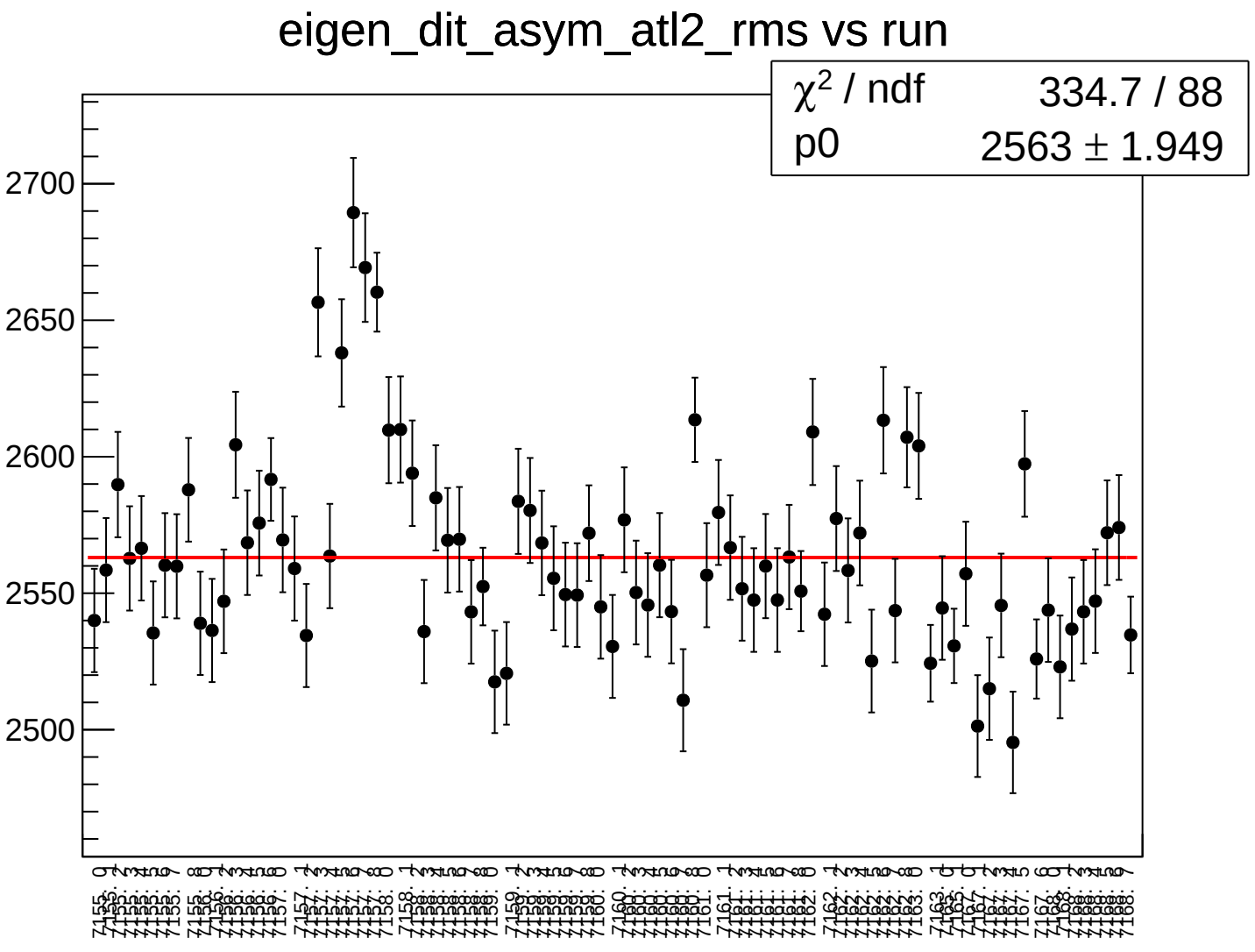

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 69.24 / 88
p0 −2008 ± 1.813e+04
pull
Entries 89
Mean −10.78
Std Dev 0

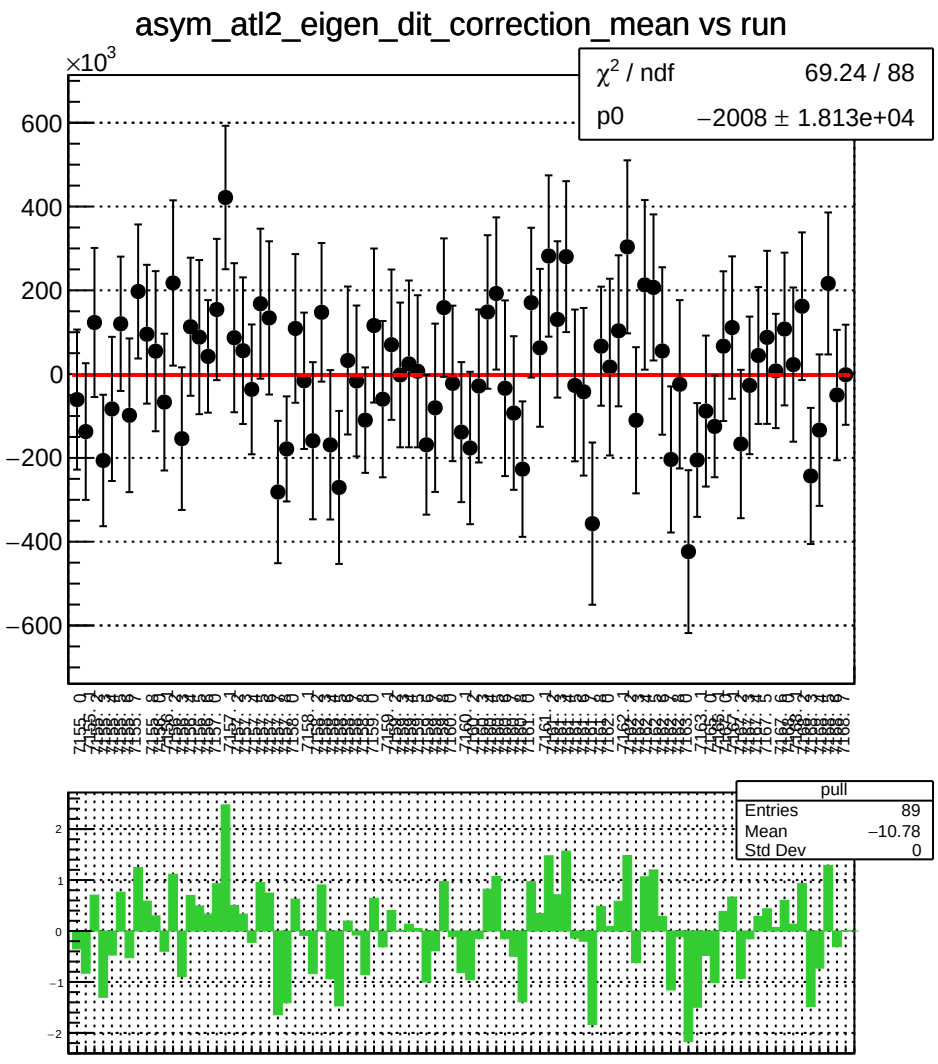

pull1D
Entries 89
Mean 0.02399
Std Dev 0.8817

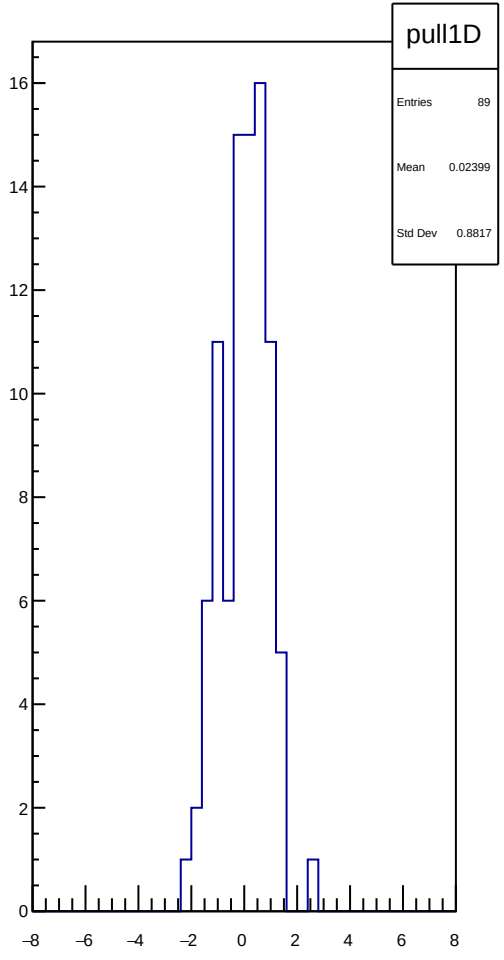

asym_atl2_dit_correction_rms vs run
χ² / ndf 8651 / 88
p0 1.682e+04 ± 12.82
20000
19000
18000
17000
16000
15000

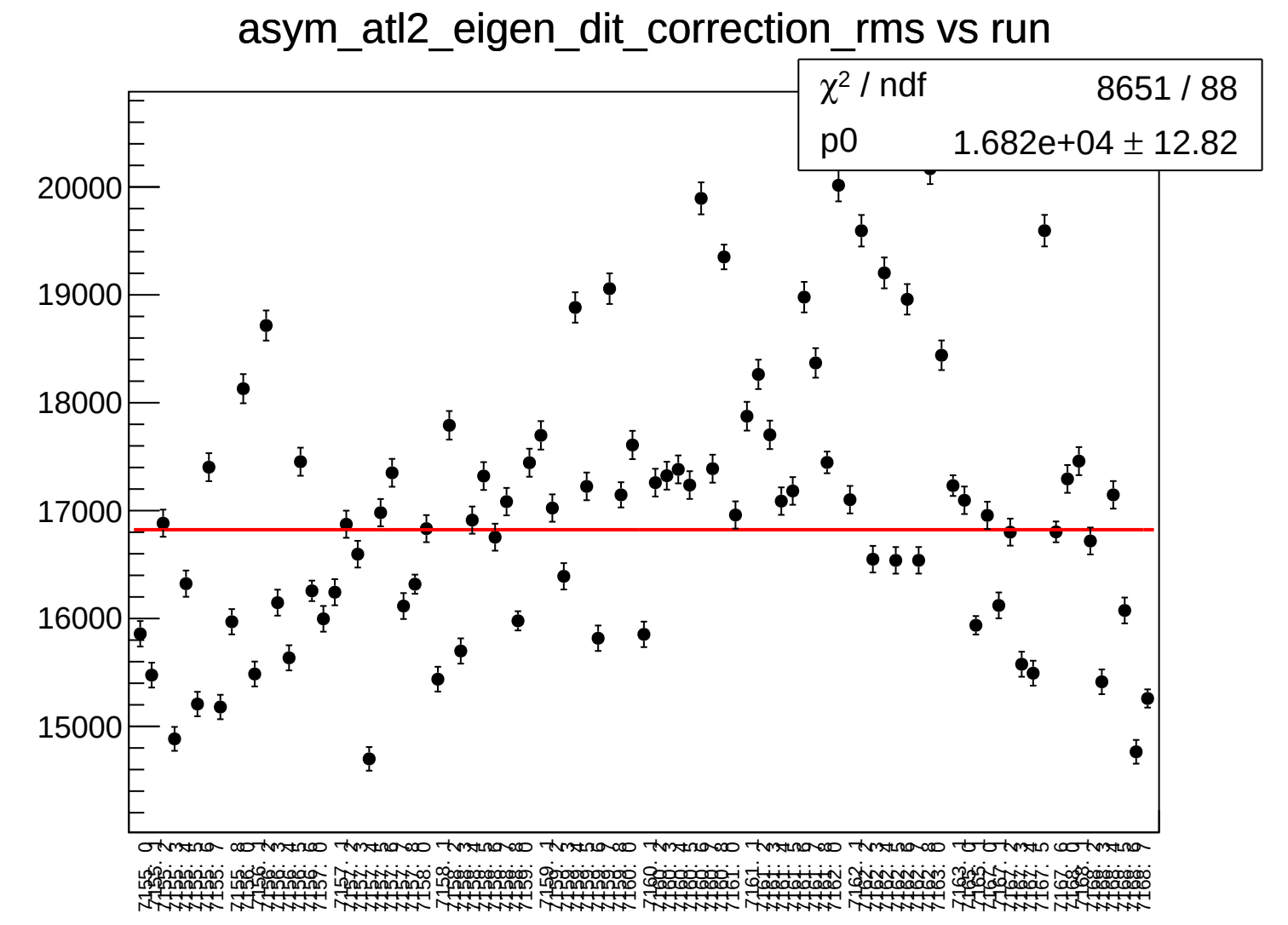

eigen_dit_asym_atl2_mean vs run
×10^3
χ² / ndf 93.44 / 88
p0 −1272 ± 2756
100
50
0
−50
−100
pull
Entries 89
Mean 172.4
Std Dev 0
2
1
0
−1
−2

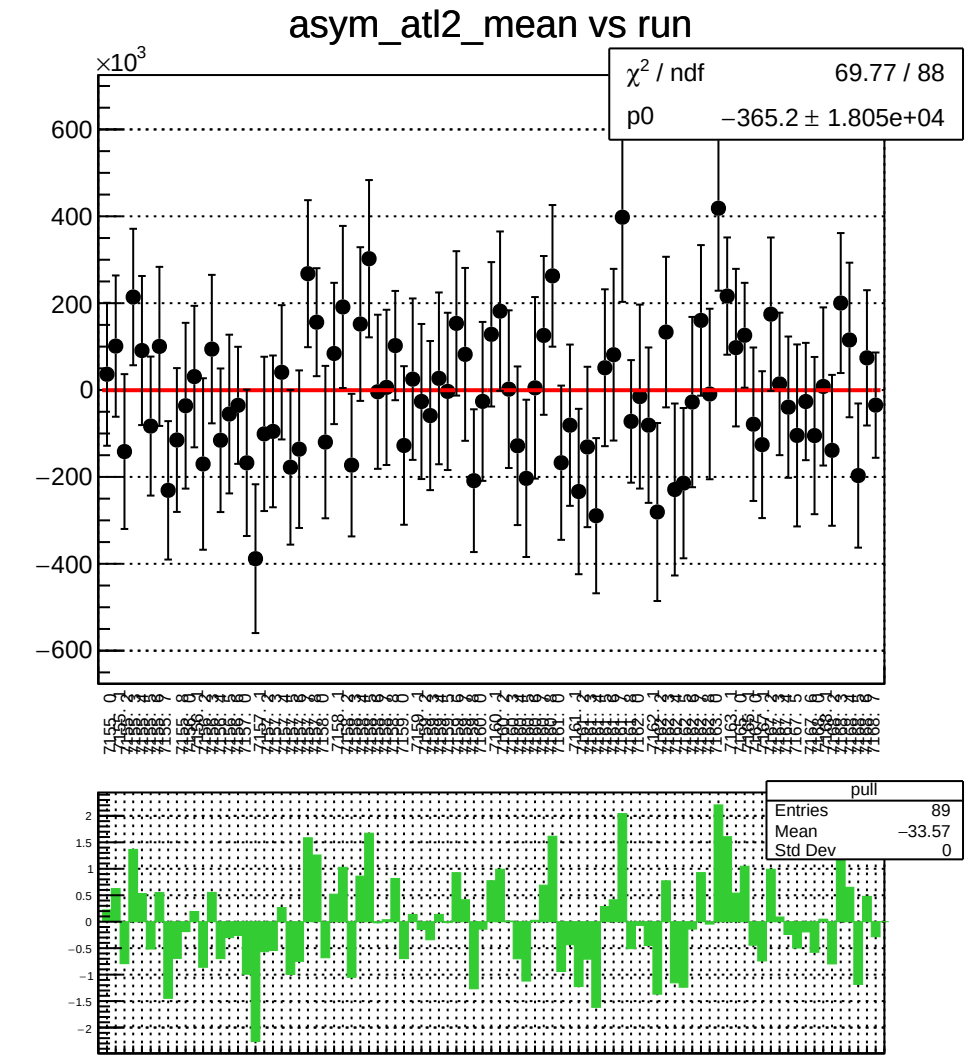

pull1D
Entries 89
Mean 0.009353
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

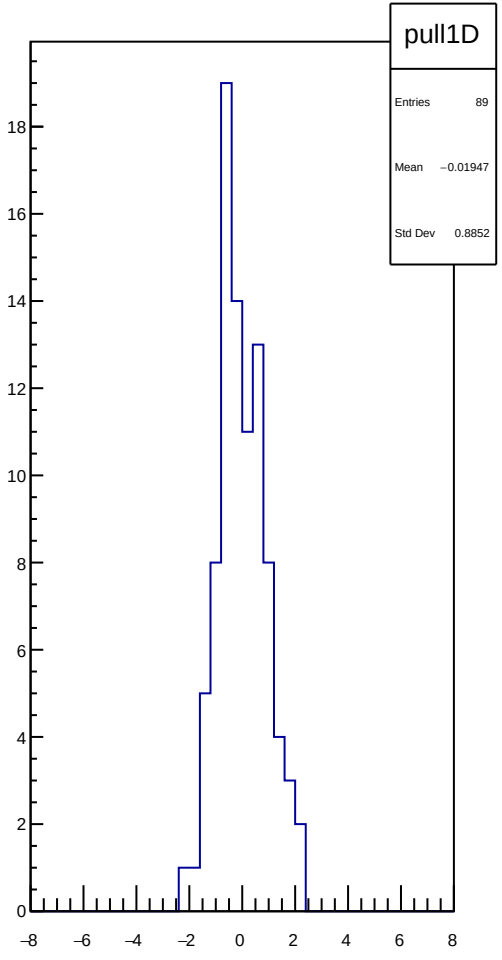

eigen_dit_asym_atl2_rms vs run
χ^2 / ndf 334.7 / 88
p0 2563 ± 1.949
2700
2650
2600
2550
2500

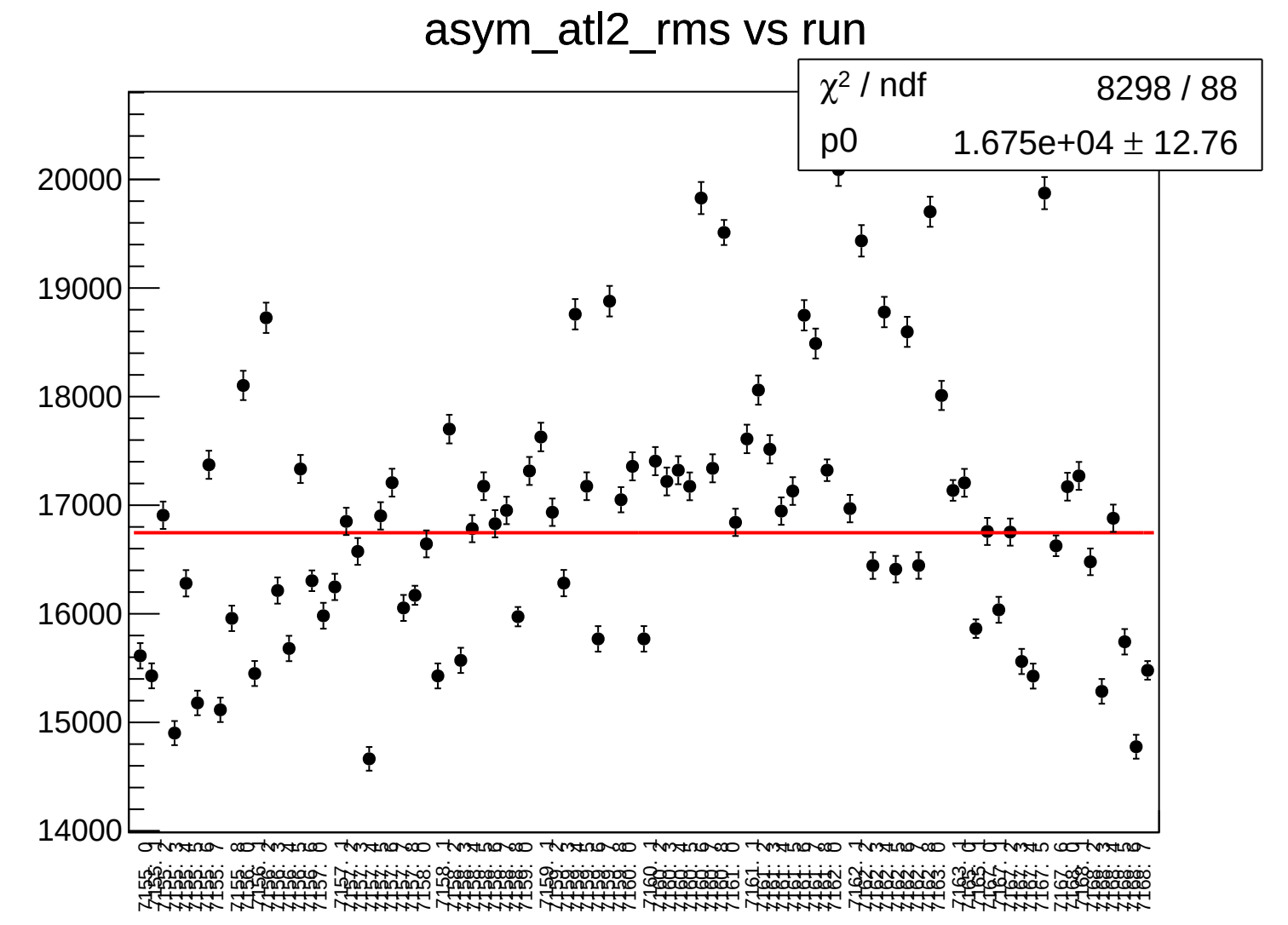

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.24 / 88
p0 −2008 ± 1.813e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −10.78
Std Dev 0
2
1
0
−1
−2

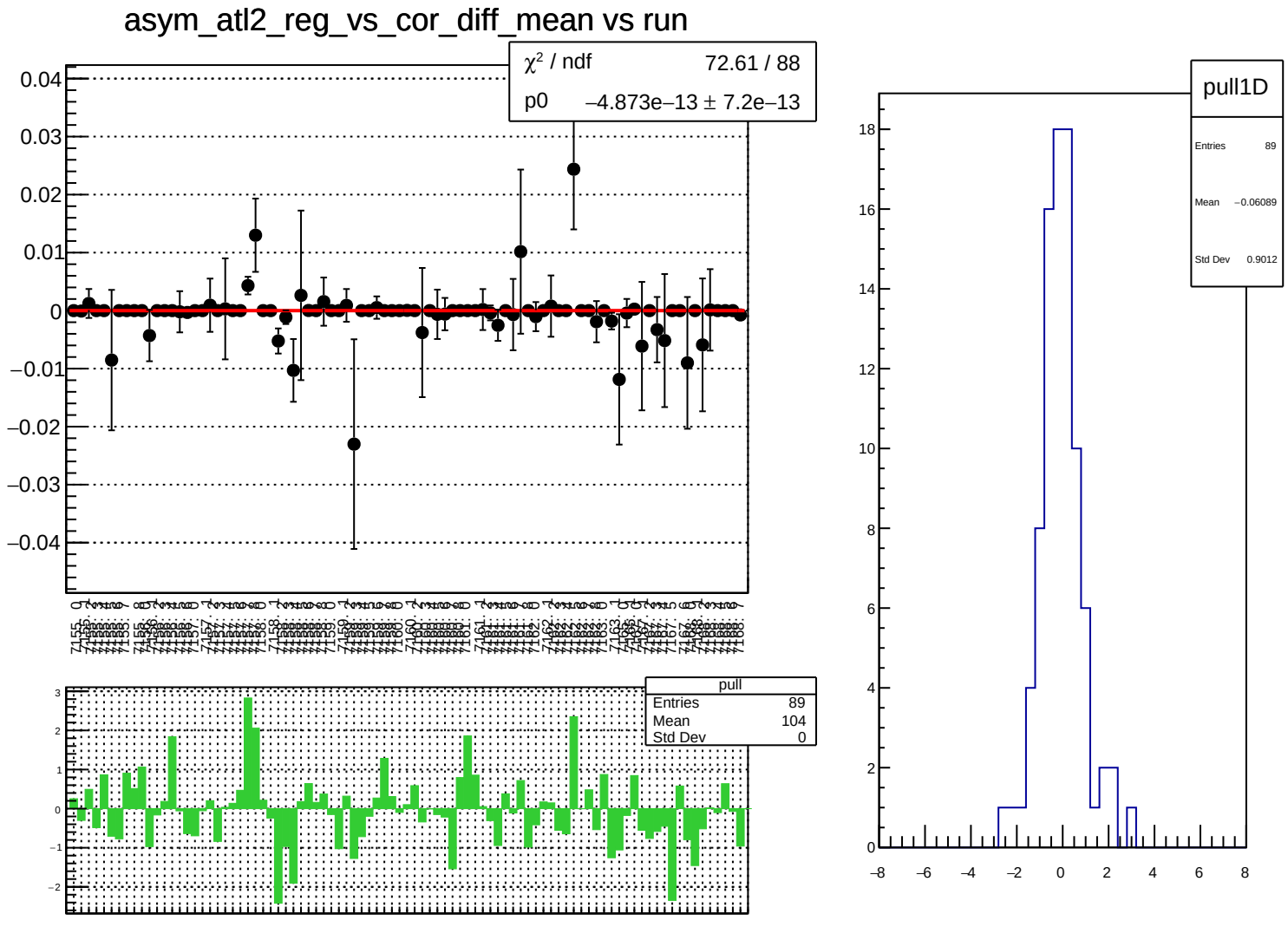

pull1D
Entries 89
Mean 0.02399
Std Dev 0.8817
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

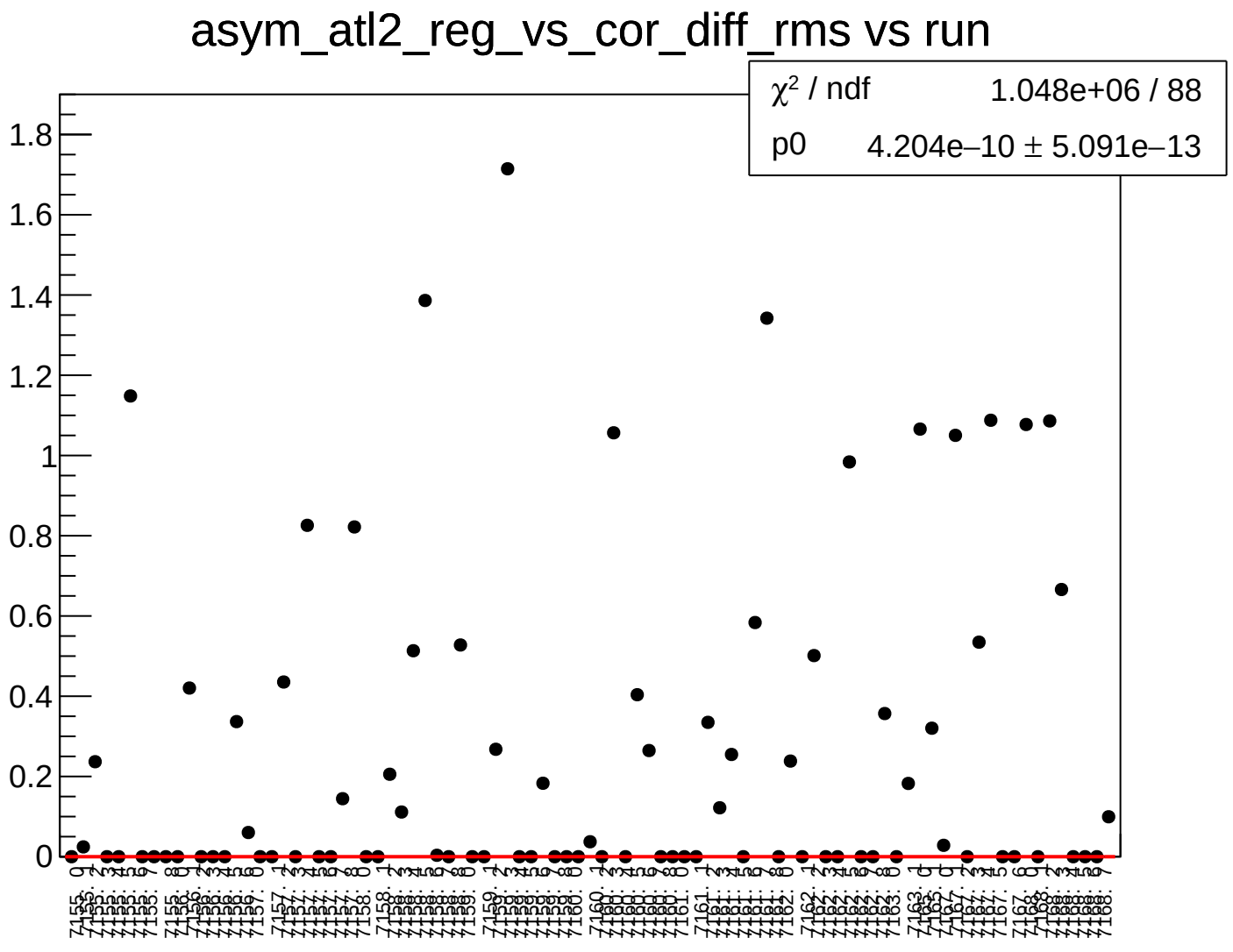

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 8651 / 88
p0 1.682e+04 ± 12.82
20000
19000
18000
17000
16000
15000

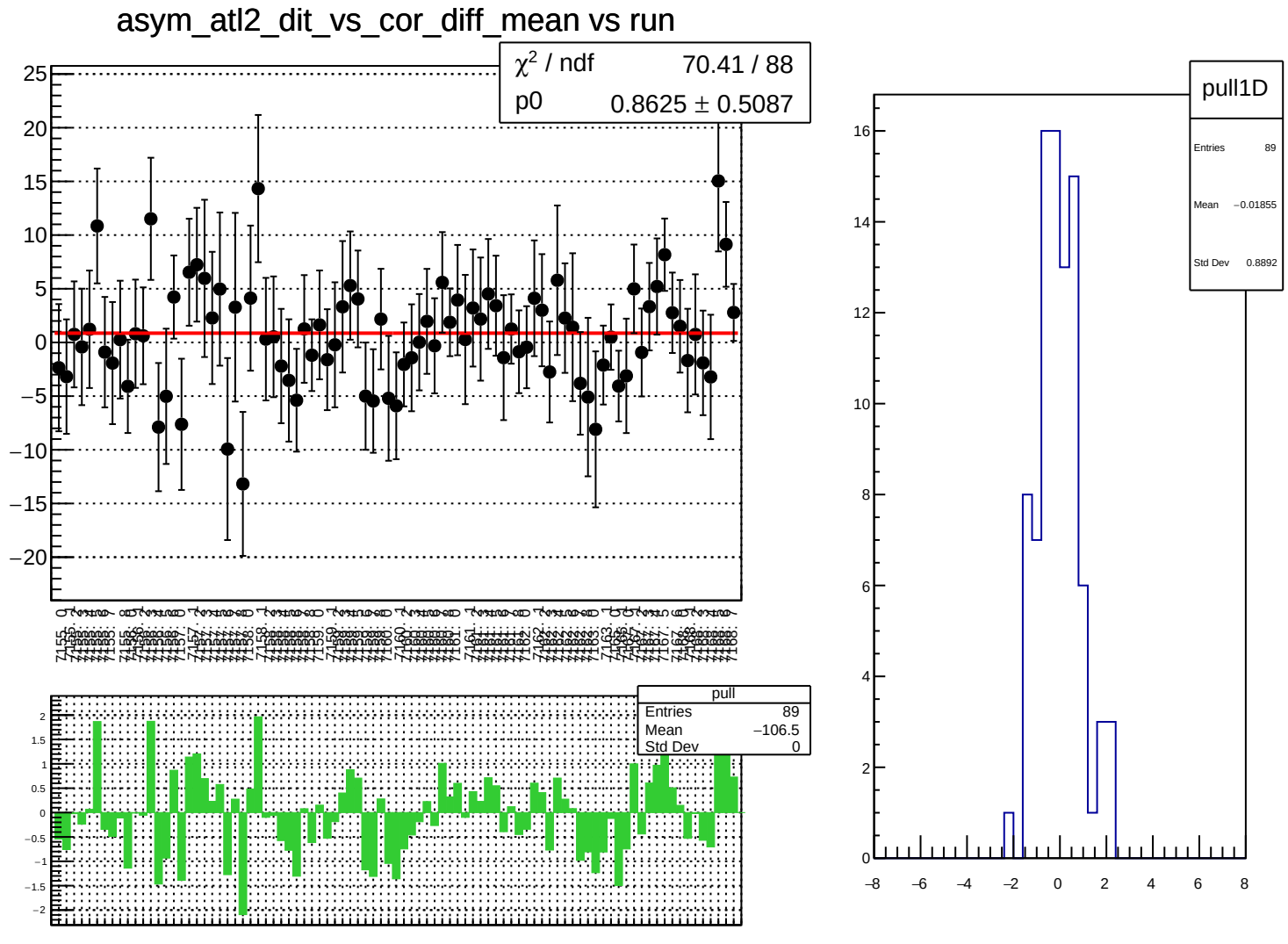

asym_atl2_mean vs run
×10^3
χ² / ndf 69.77 / 88
p0 −365.2 ± 1.805e+04
pull
Entries 89
Mean −33.57
Std Dev 0

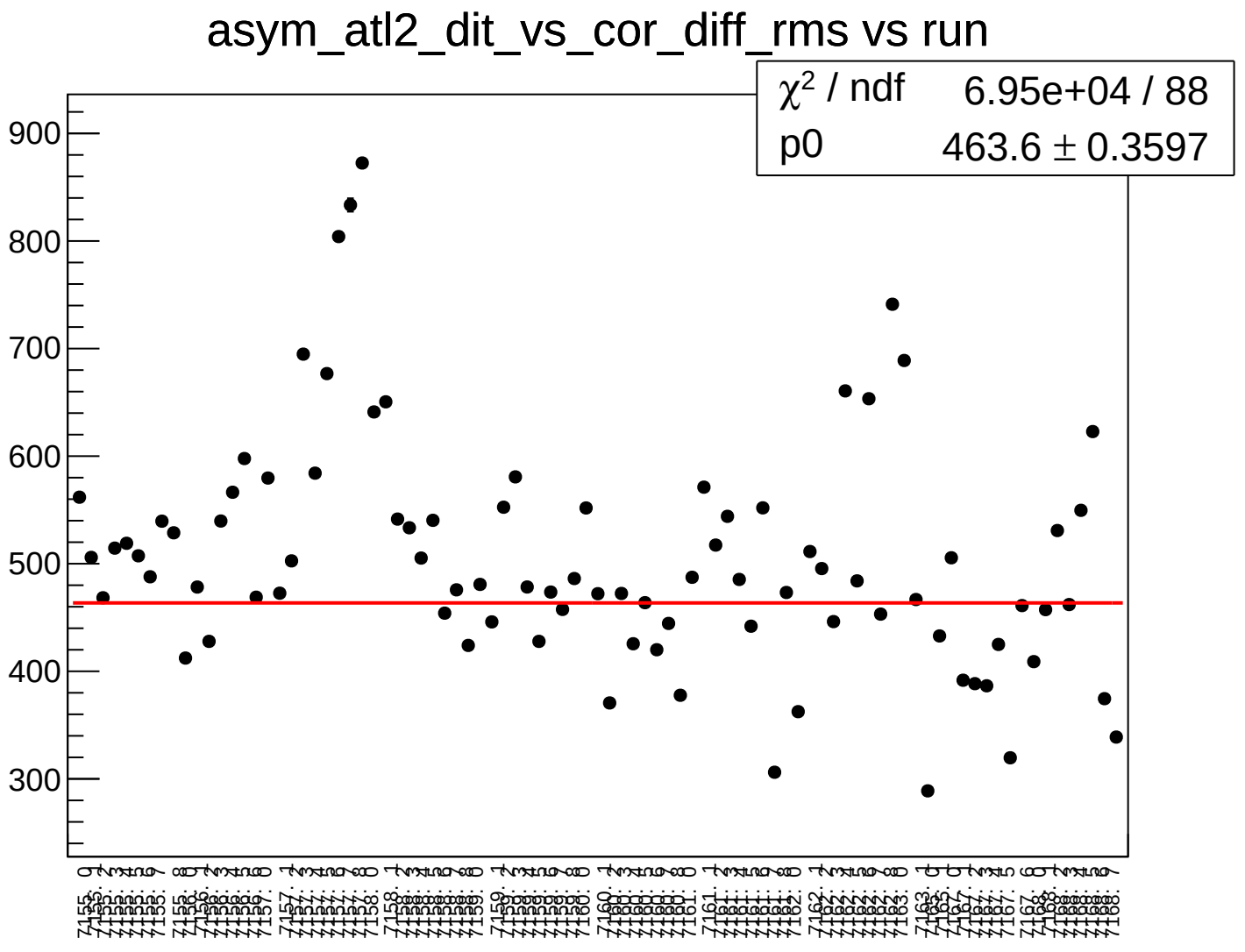

pull1D
Entries 89
Mean −0.01947
Std Dev 0.8852

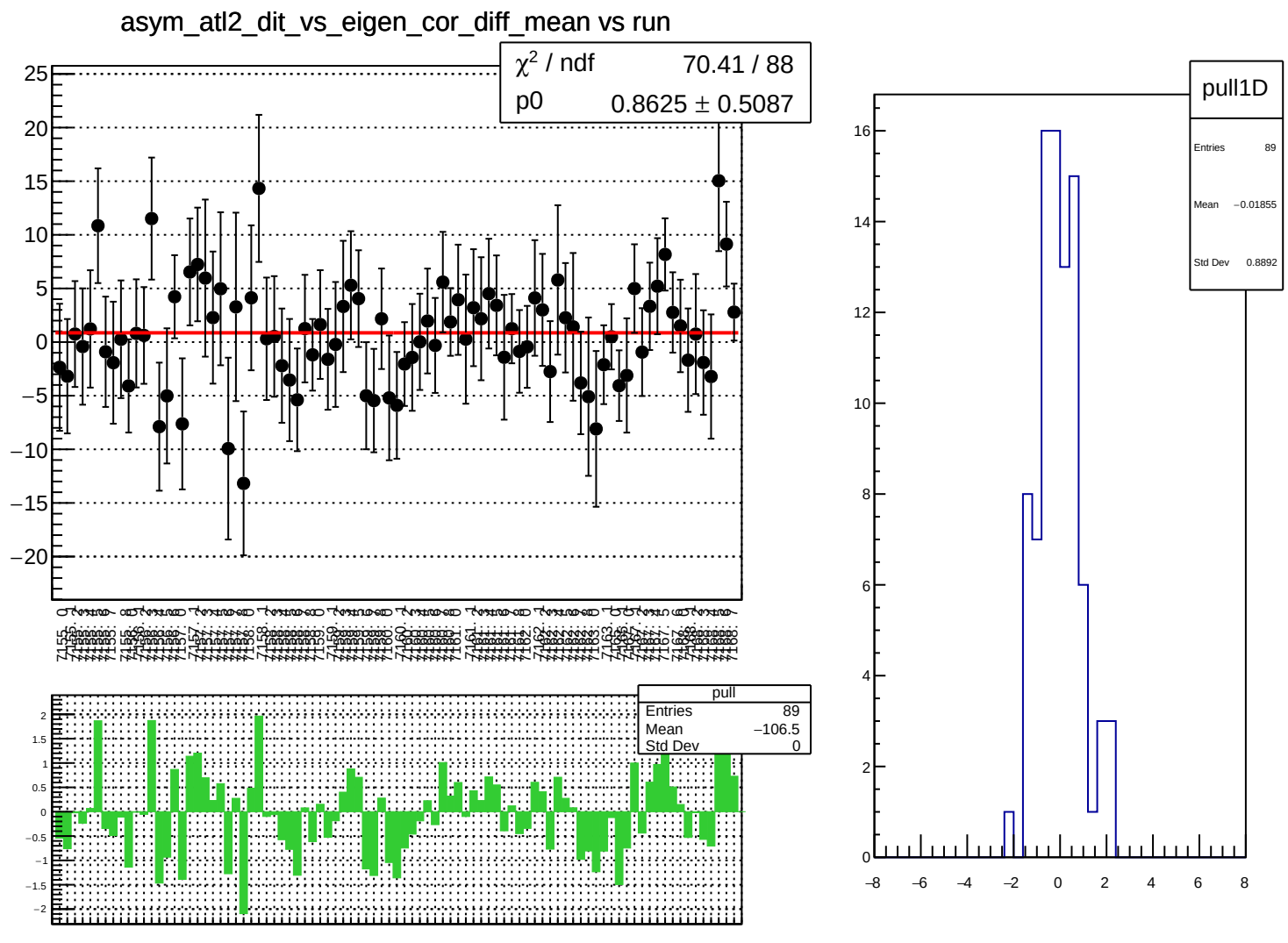

asym_atl2_rms vs run
χ² / ndf 8298 / 88
p0 1.675e+04 ± 12.76
20000
19000
18000
17000
16000
15000
14000

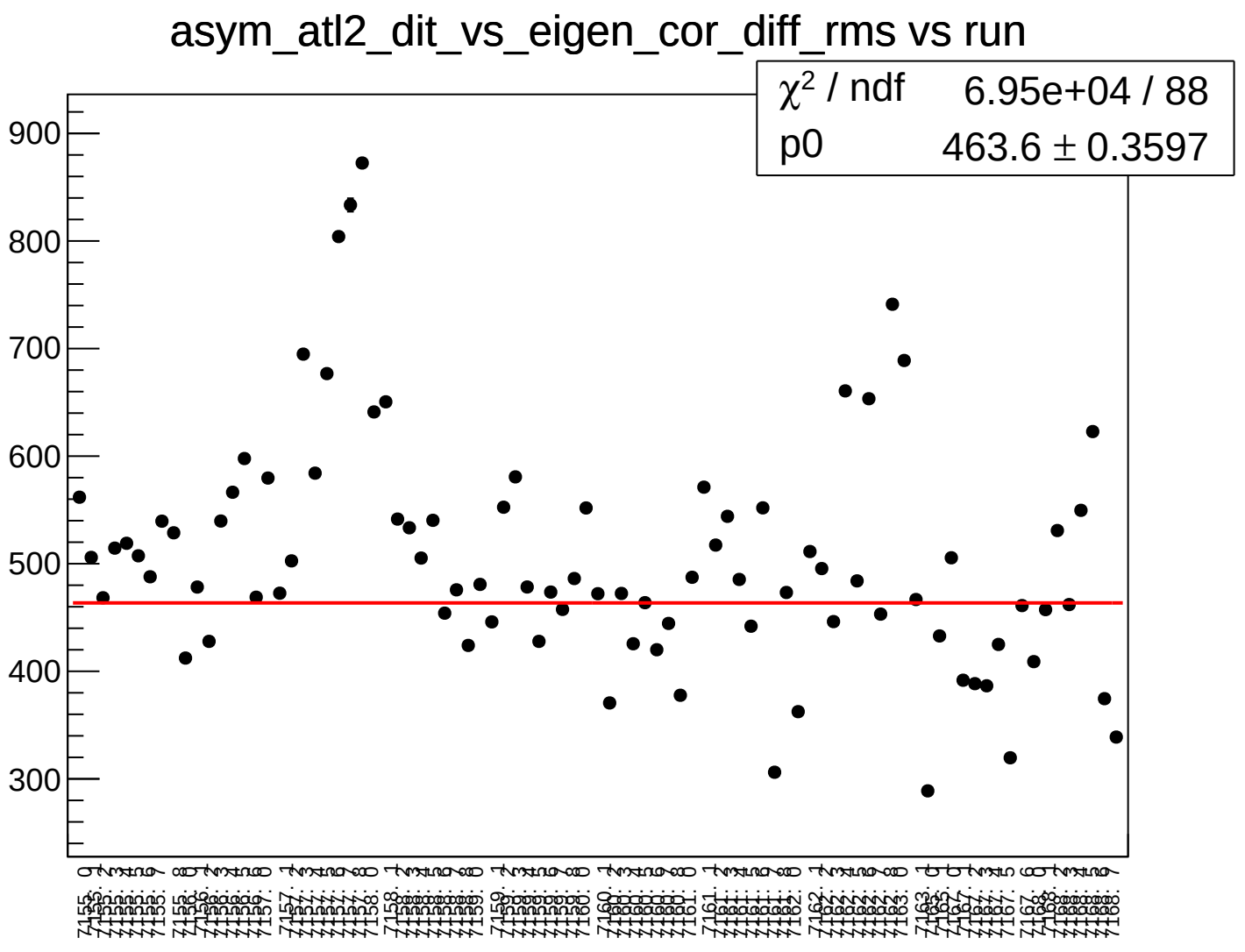

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 72.61 / 88
p0 −4.873e−13 ± 7.2e−13
pull
Entries 89
Mean 104
Std Dev 0
pull1D
Entries 89
Mean −0.06089
Std Dev 0.9012

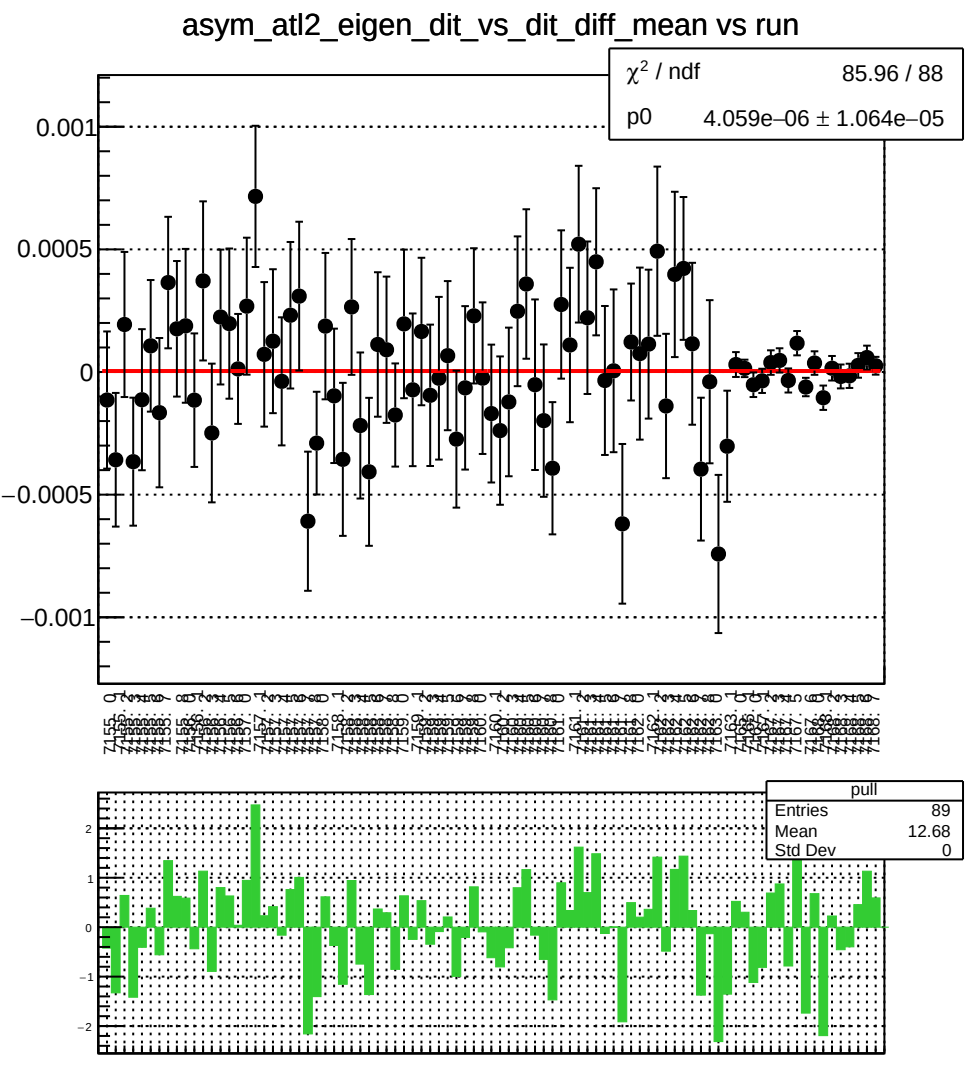

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.048e+06 / 88
p0 4.204e−10 ± 5.091e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

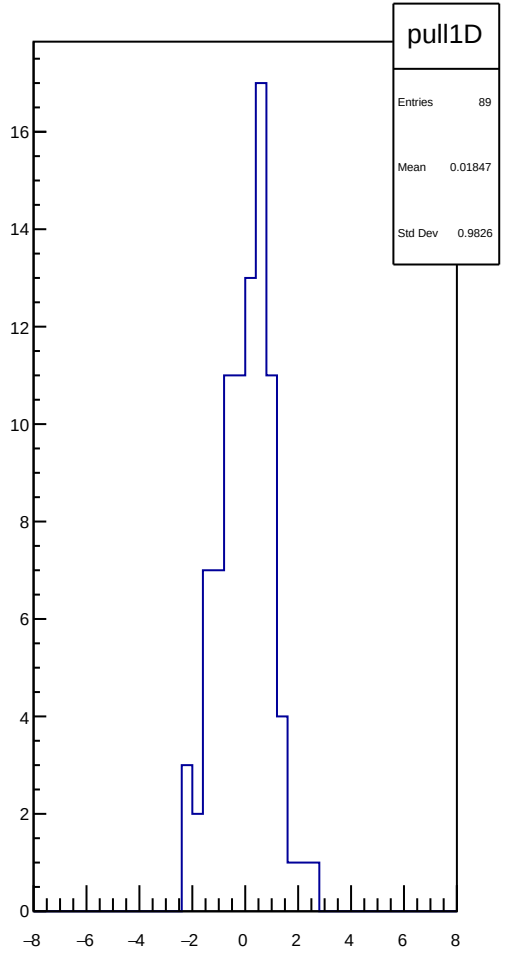

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 70.41 / 88
p0 0.8625 ± 0.5087
pull
Entries 89
Mean −106.5
Std Dev 0
pull1D
Entries 89
Mean −0.01855
Std Dev 0.8892

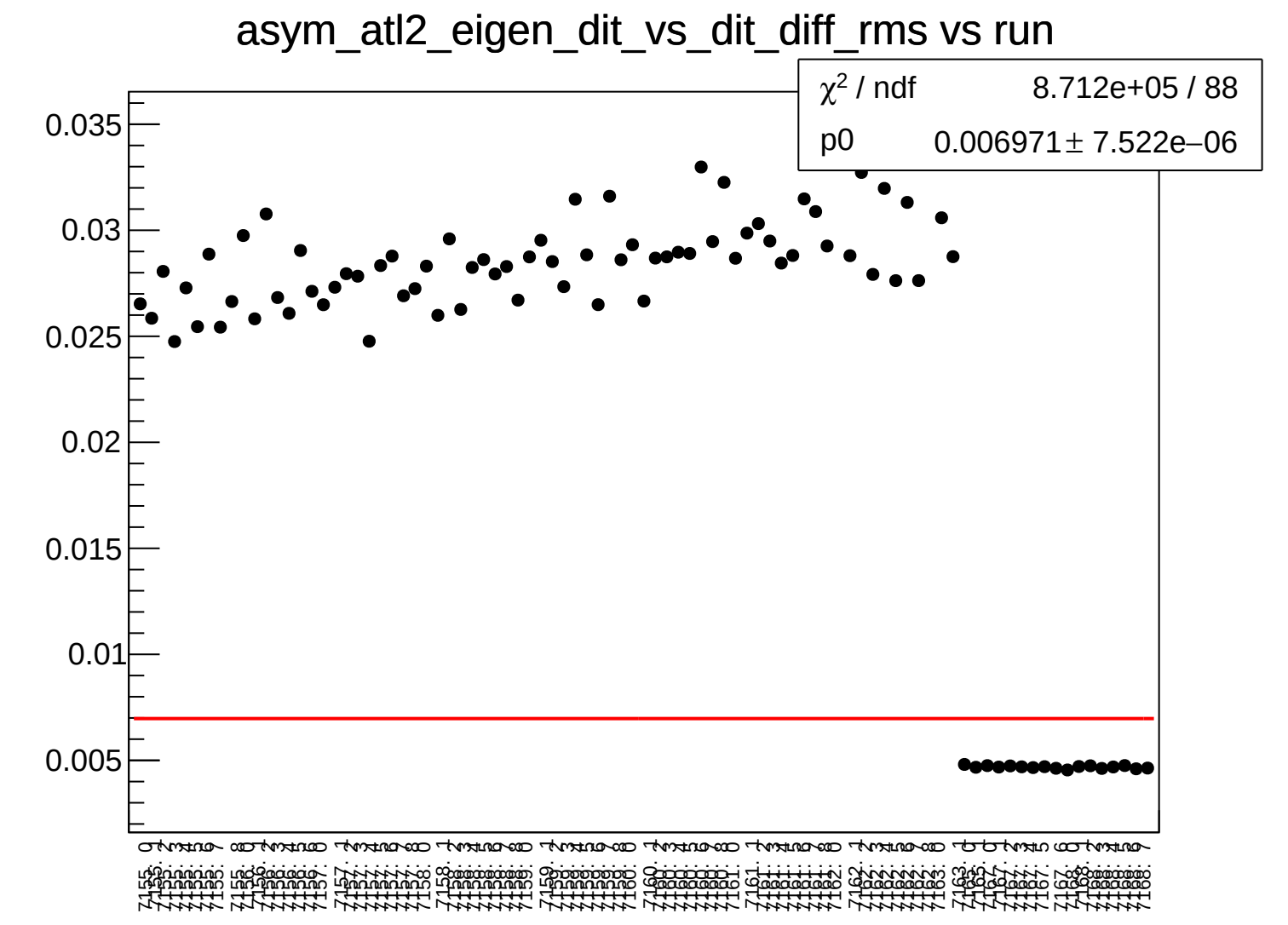

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.95e+04 / 88
p0 463.6 ± 0.3597
900
800
700
600
500
400
300

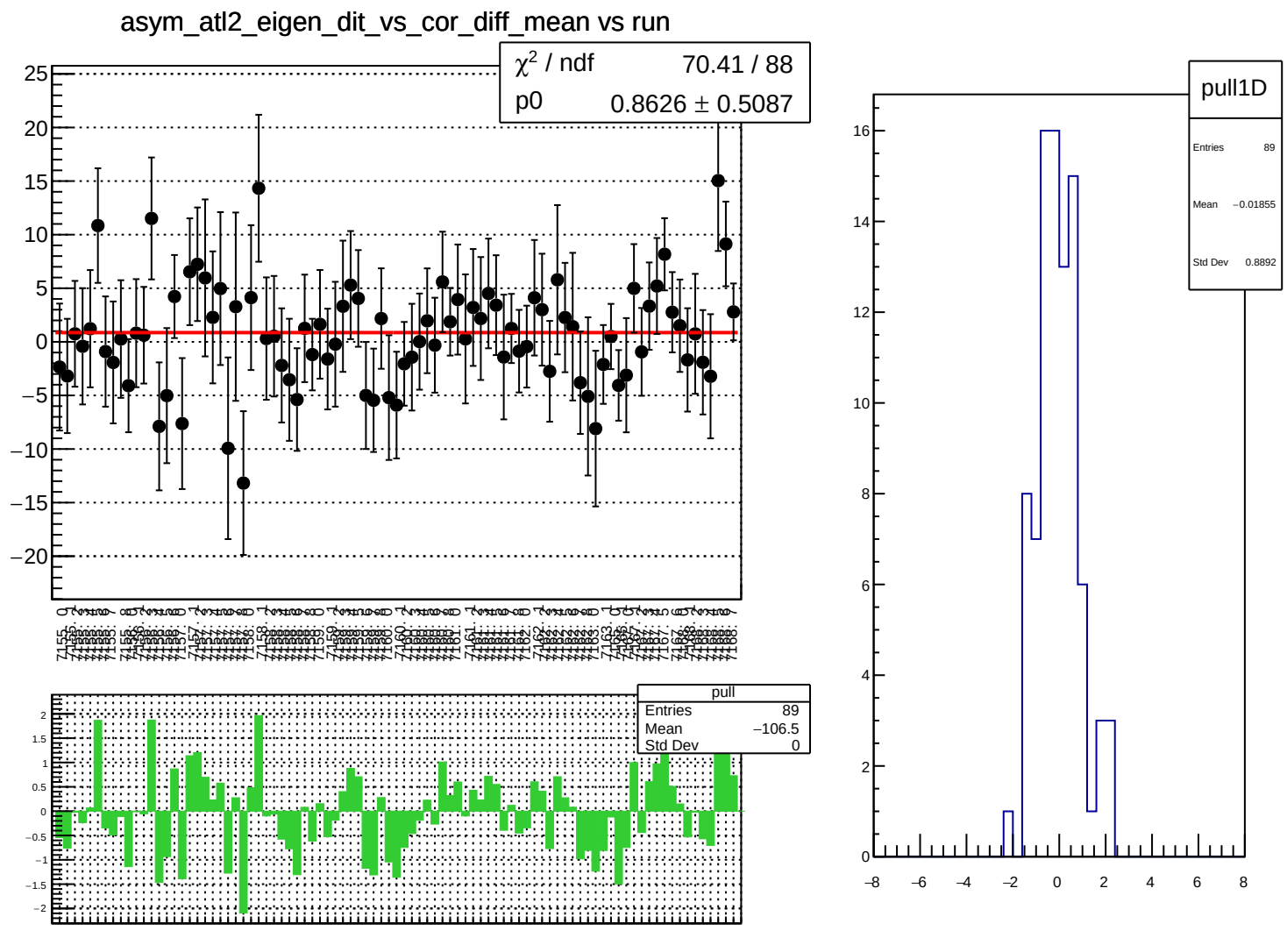

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.41 / 88
p0 0.8625 ± 0.5087
pull
Entries 89
Mean −106.5
Std Dev 0
pull1D
Entries 89
Mean −0.01855
Std Dev 0.8892

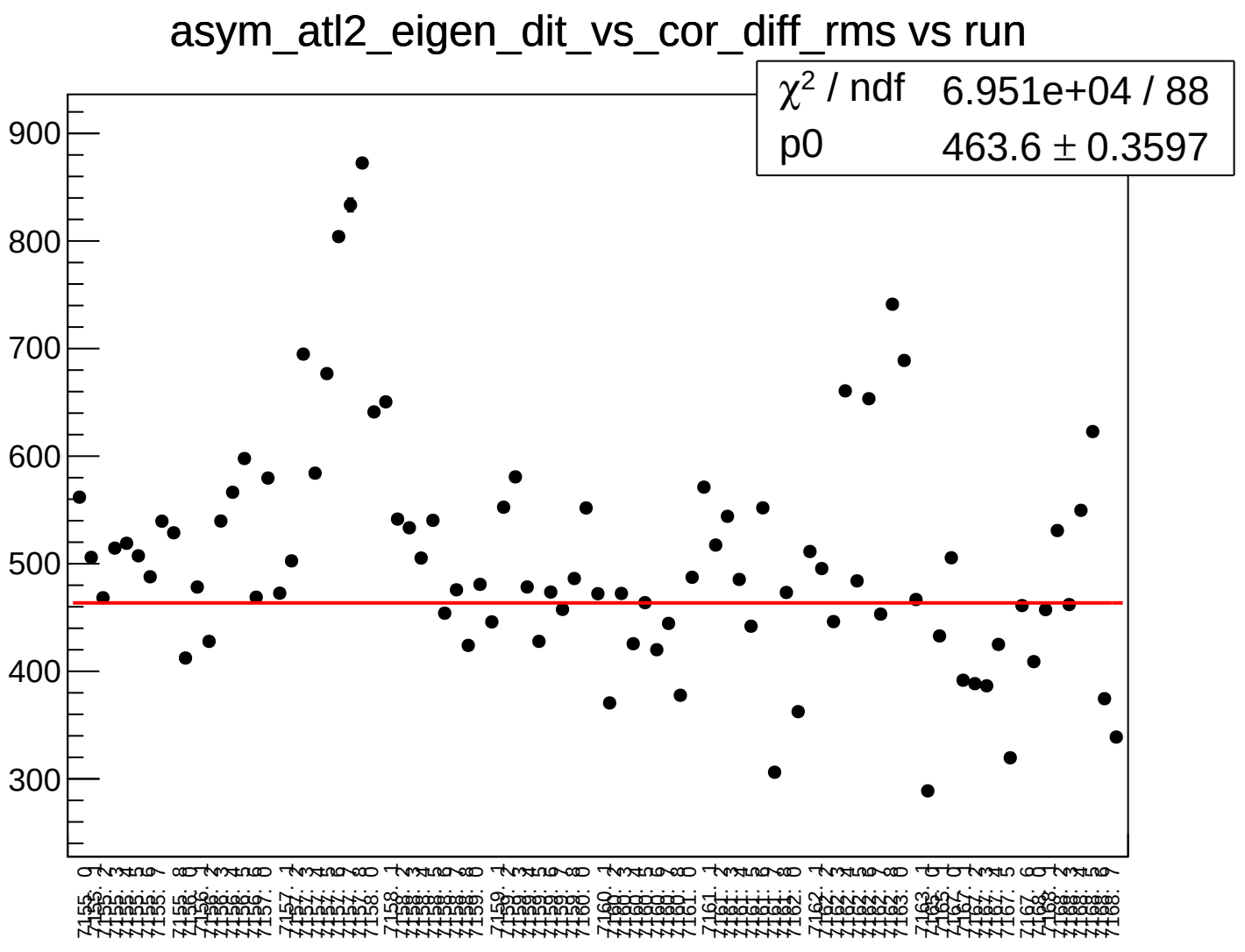

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.95e+04 / 88
p0 463.6 ± 0.3597
900
800
700
600
500
400
300

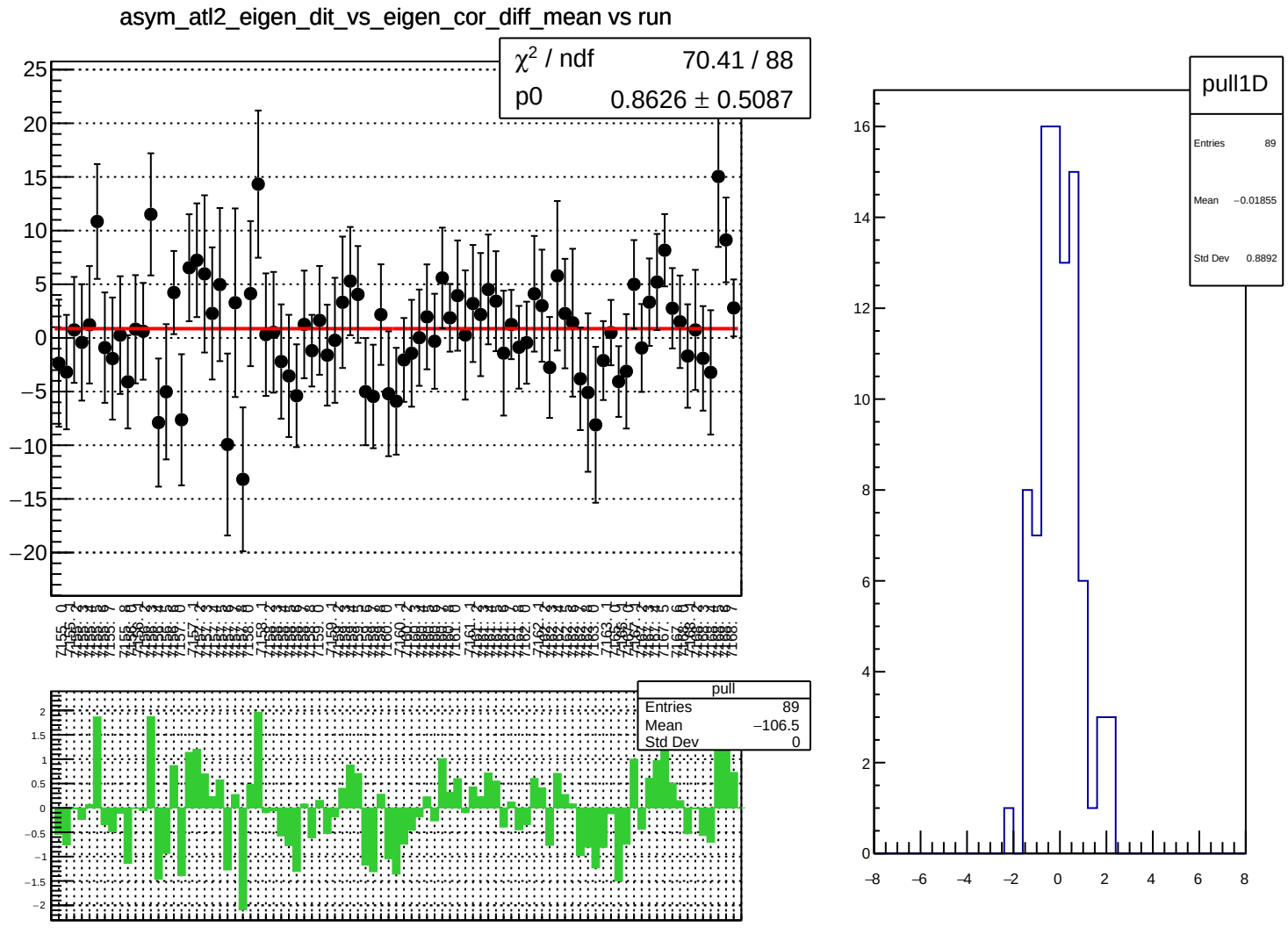

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.96 / 88
p0 4.059e−06 ± 1.064e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 12.68
Std Dev 0

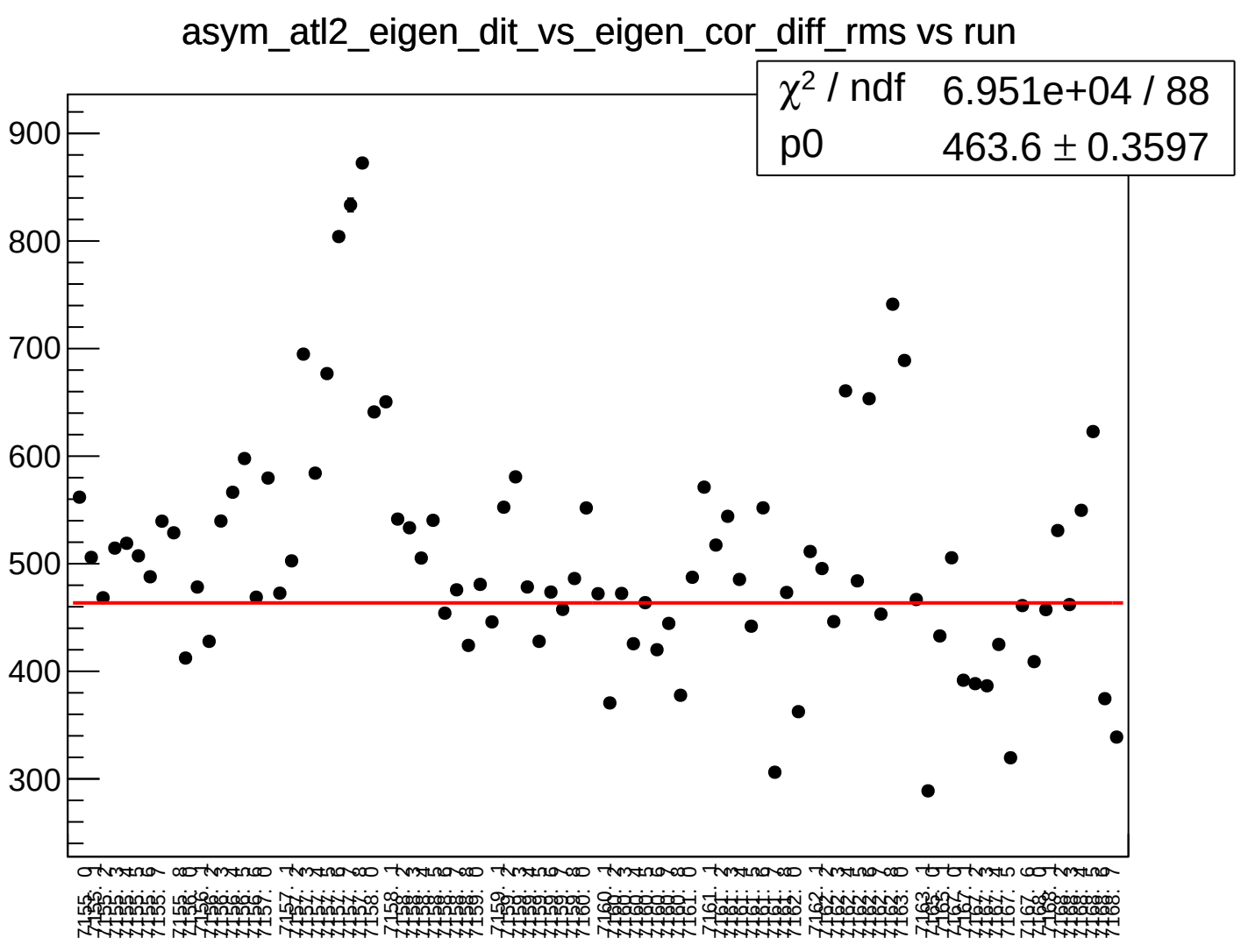

pull1D
Entries 89
Mean 0.01847
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

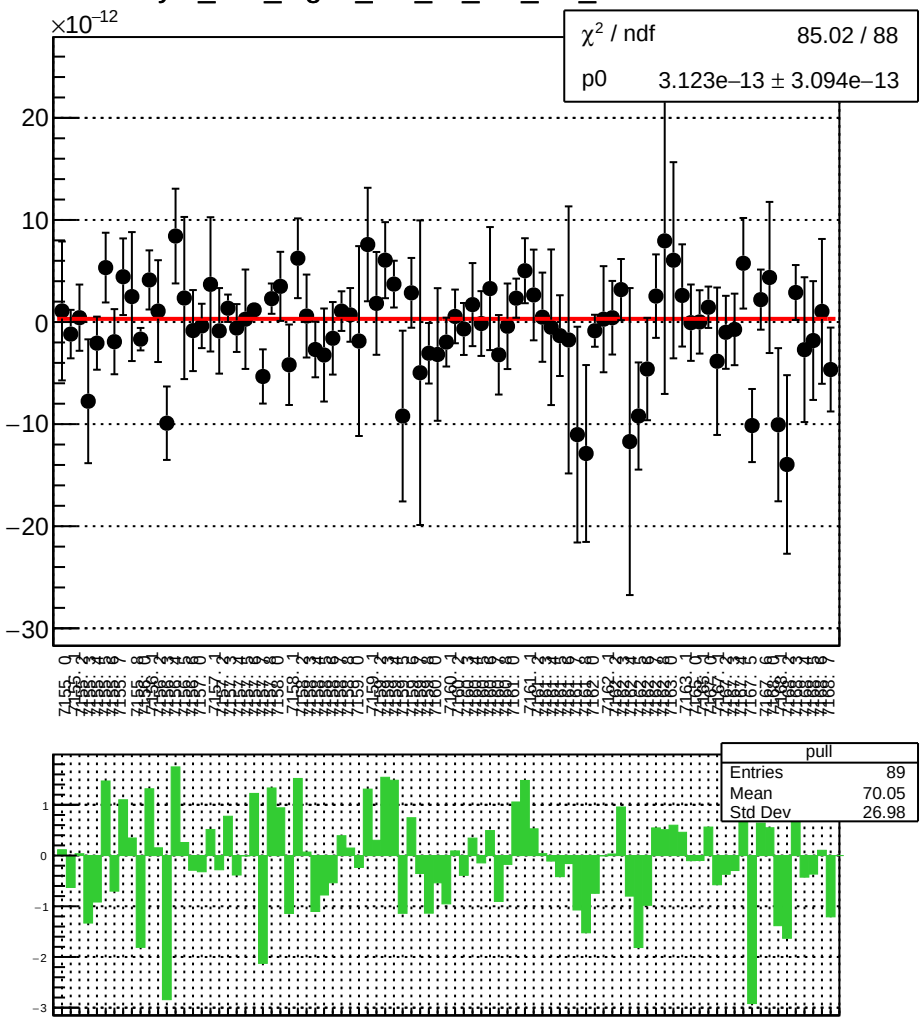

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.712e+05 / 88
p0 0.006971 ± 7.522e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

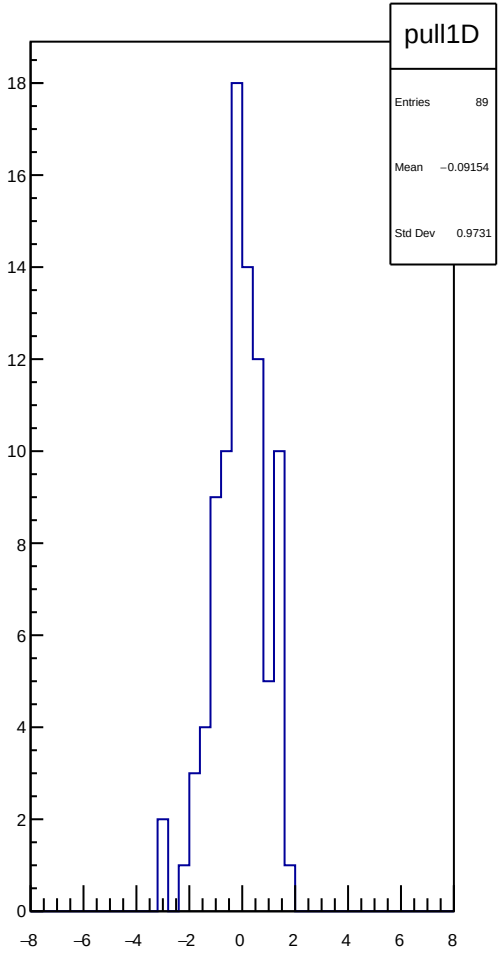

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.41 / 88
p0 0.8626 ± 0.5087
pull
Entries 89
Mean −106.5
Std Dev 0
pull1D
Entries 89
Mean −0.01855
Std Dev 0.8892

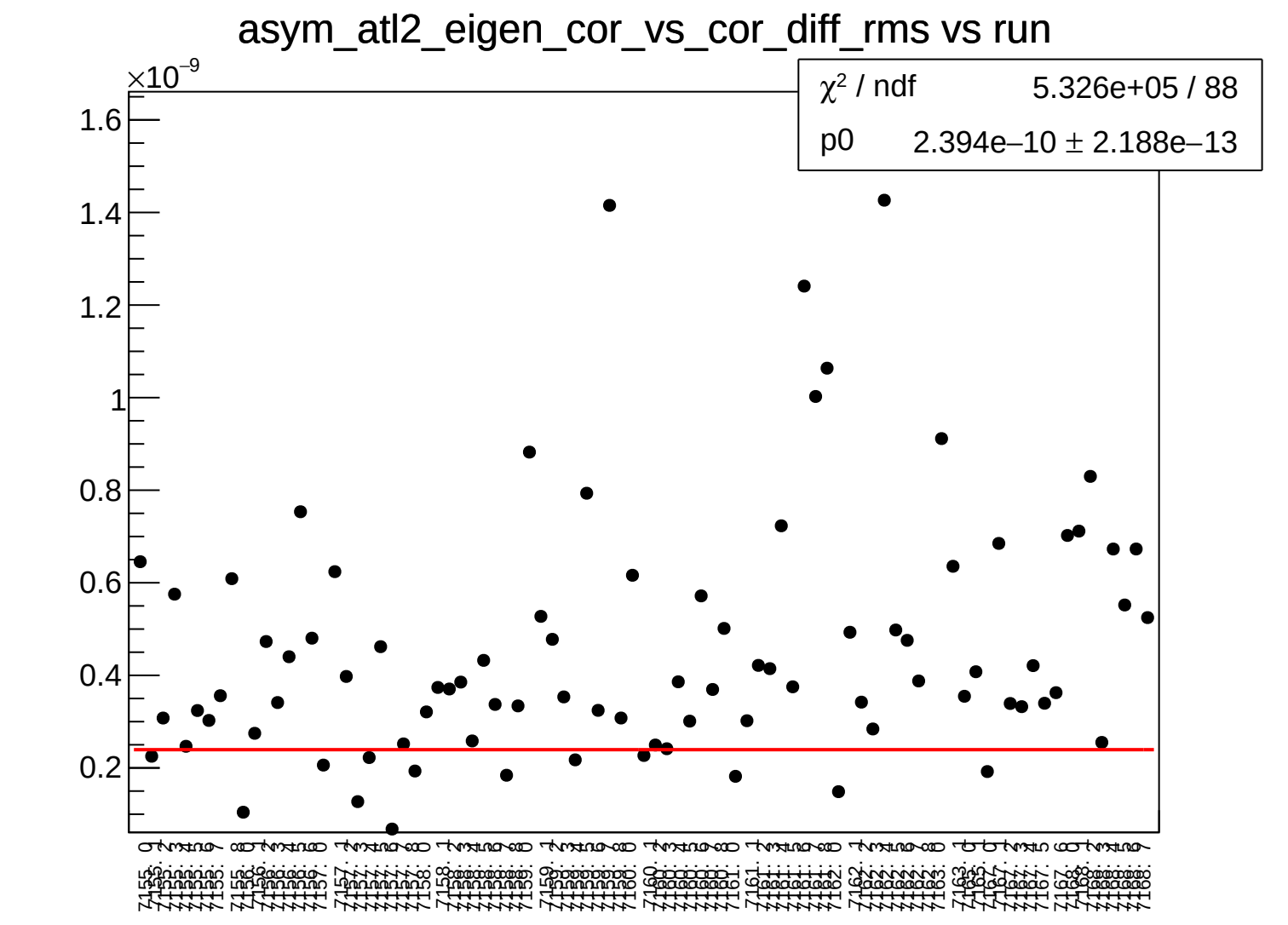

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.951e+04 / 88
p0 463.6 ± 0.3597
900
800
700
600
500
400
300

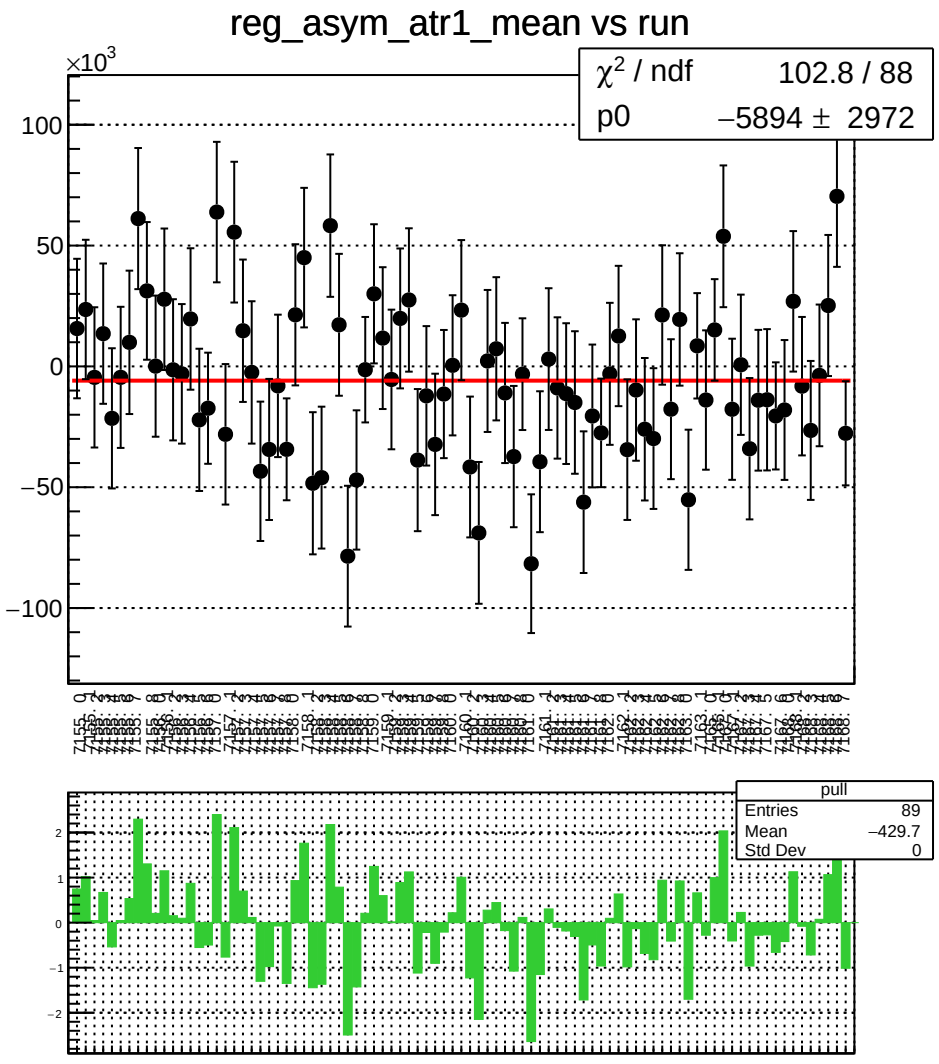

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.41 / 88
p0 0.8626 ± 0.5087
pull
Entries 89
Mean −106.5
Std Dev 0
pull1D
Entries 89
Mean −0.01855
Std Dev 0.8892

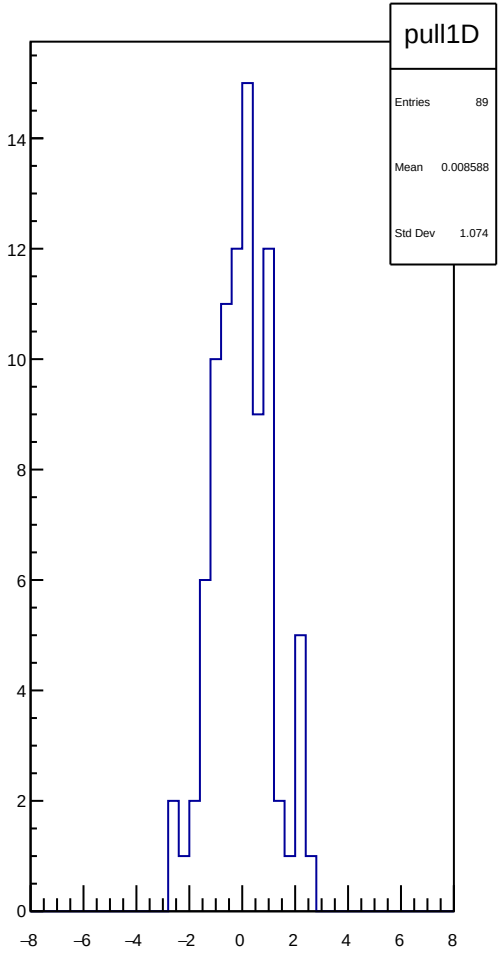

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.951e+04 / 88
p0 463.6 ± 0.3597
900
800
700
600
500
400
300

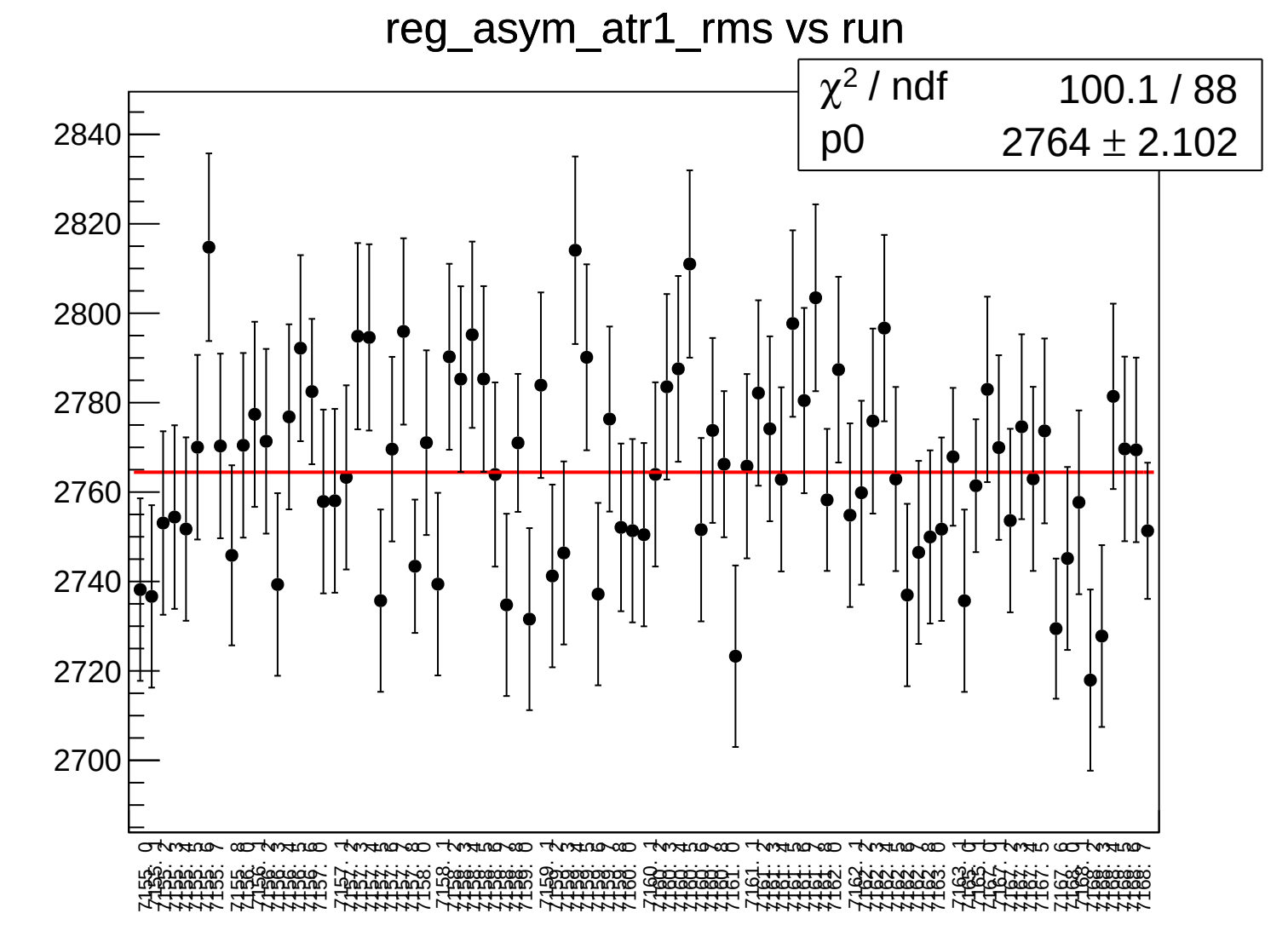

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.02 / 88
p0 3.123e−13 ± 3.094e−13
pull
Entries 89
Mean 70.05
Std Dev 26.98

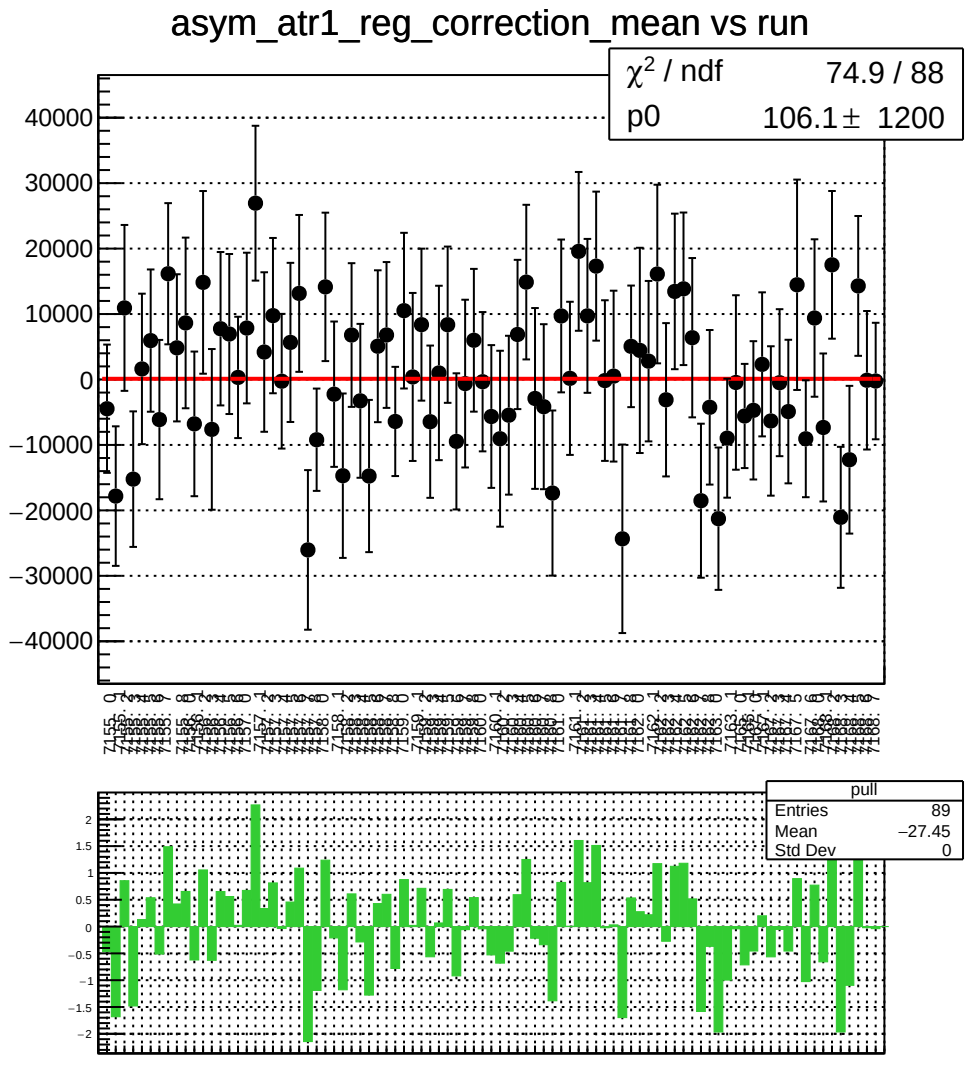

pull1D
Entries 89
Mean −0.09154
Std Dev 0.9731

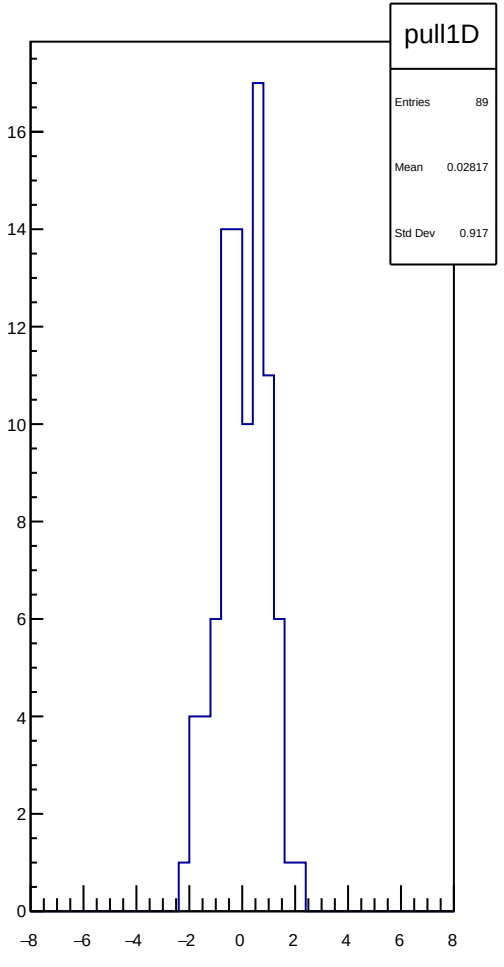

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.326e+05 / 88
p0 2.394e−10 ± 2.188e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

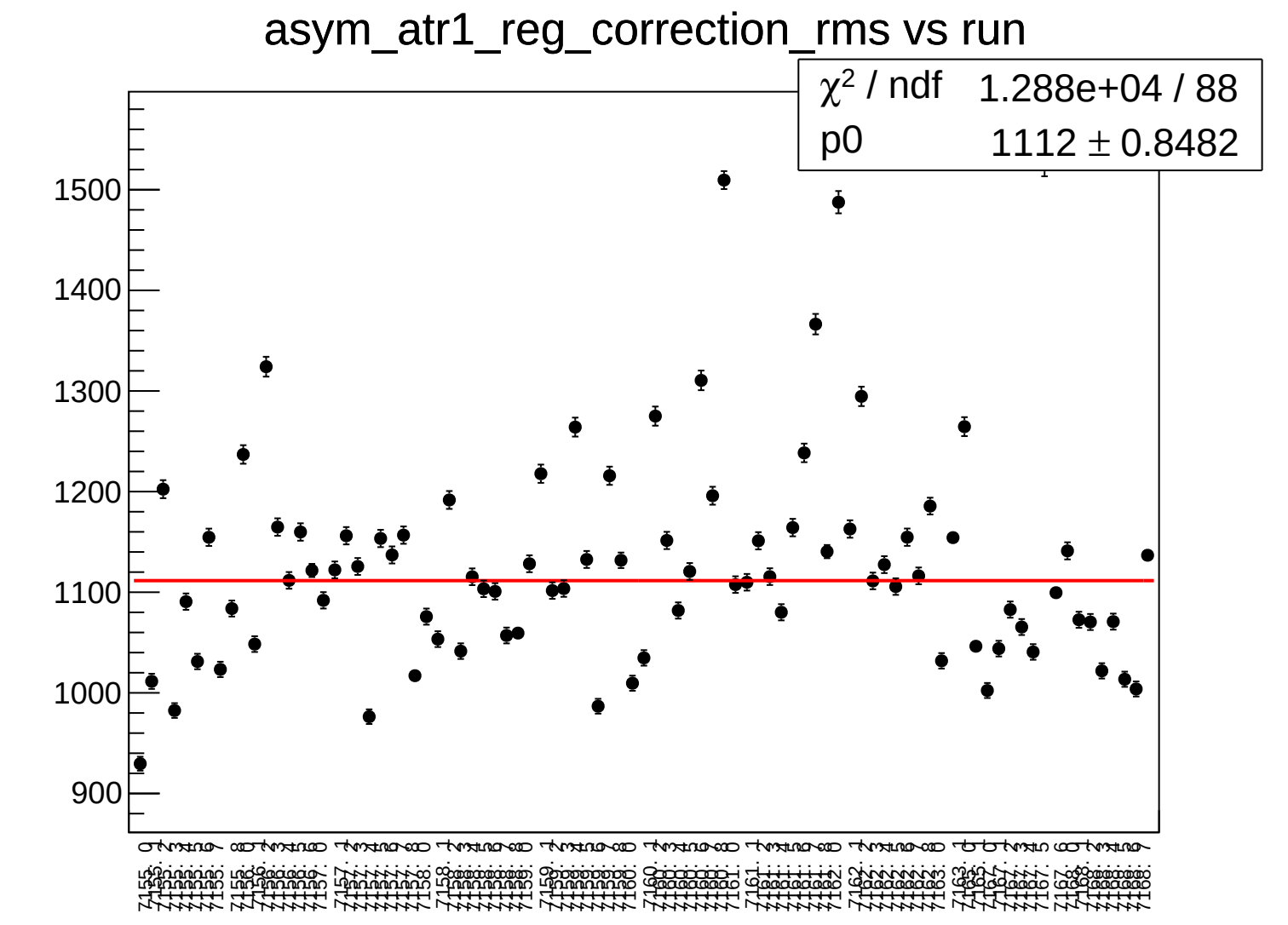

reg_asym_atr1_mean vs run
χ^2 / ndf 102.8 / 88
p0 −5894 ± 2972
×10^3
pull
Entries 89
Mean −429.7
Std Dev 0

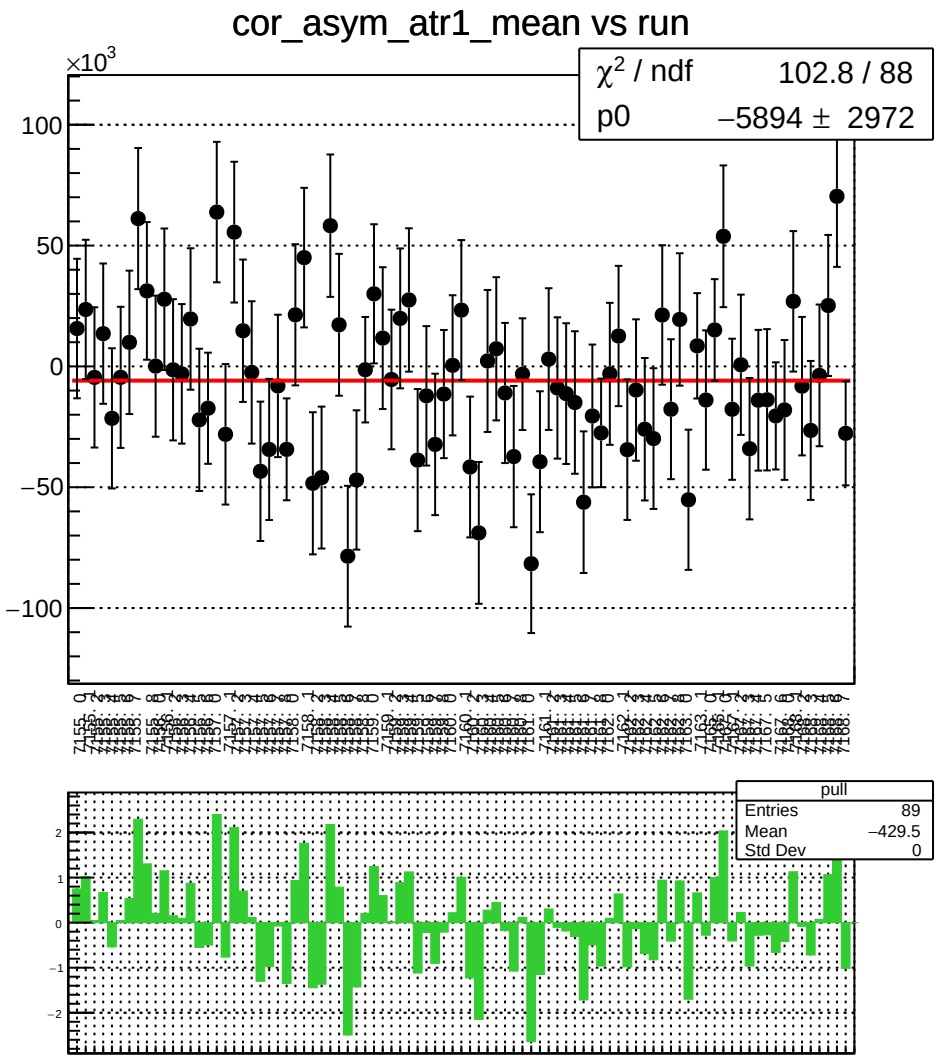

pull1D
Entries 89
Mean 0.008588
Std Dev 1.074

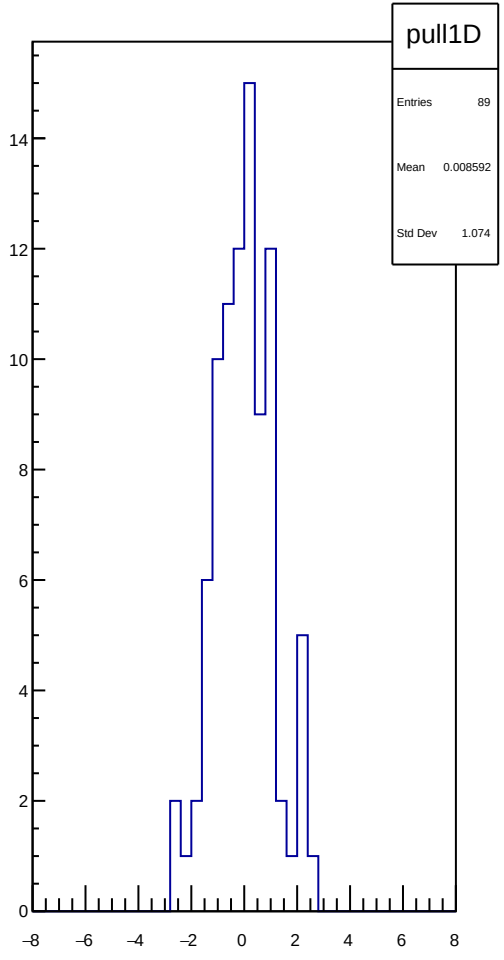

reg_asym_atr1_rms vs run
χ^2 / ndf 100.1 / 88
p0 2764 ± 2.102
2840
2820
2800
2780
2760
2740
2720
2700

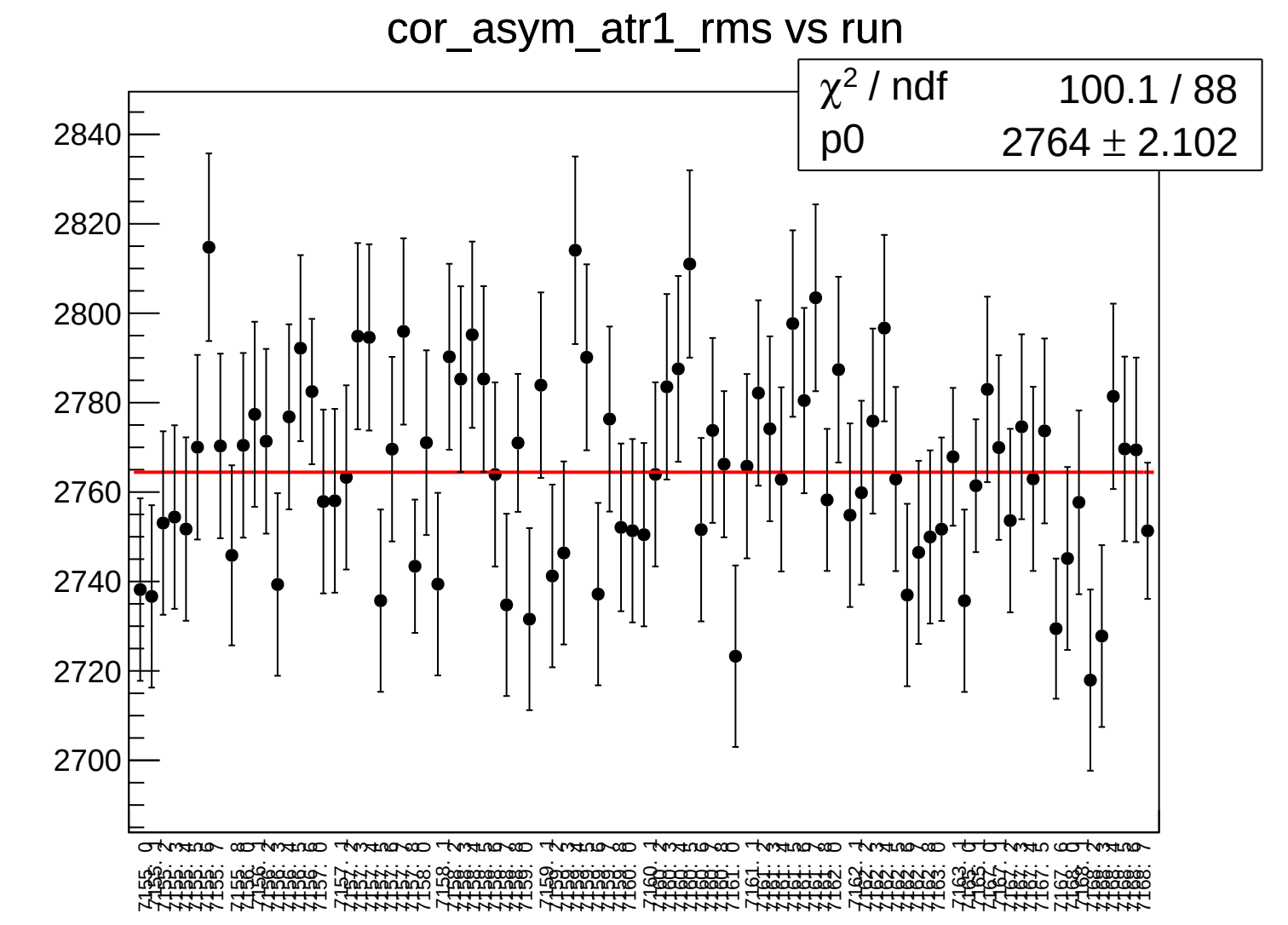

asym_atr1_reg_correction_mean vs run
χ² / ndf 74.9 / 88
p0 106.1 ± 1200
pull
Entries 89
Mean −27.45
Std Dev 0

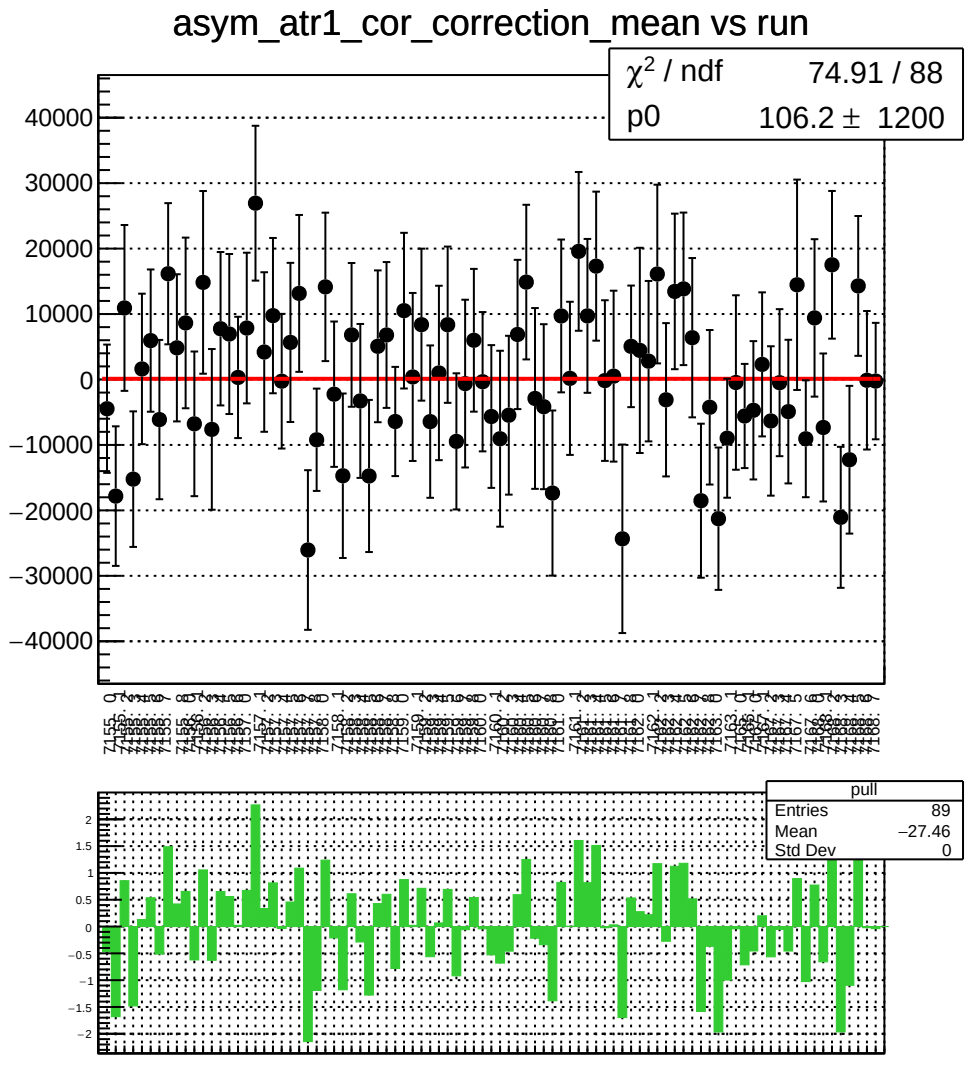

pull1D
Entries 89
Mean 0.02817
Std Dev 0.917

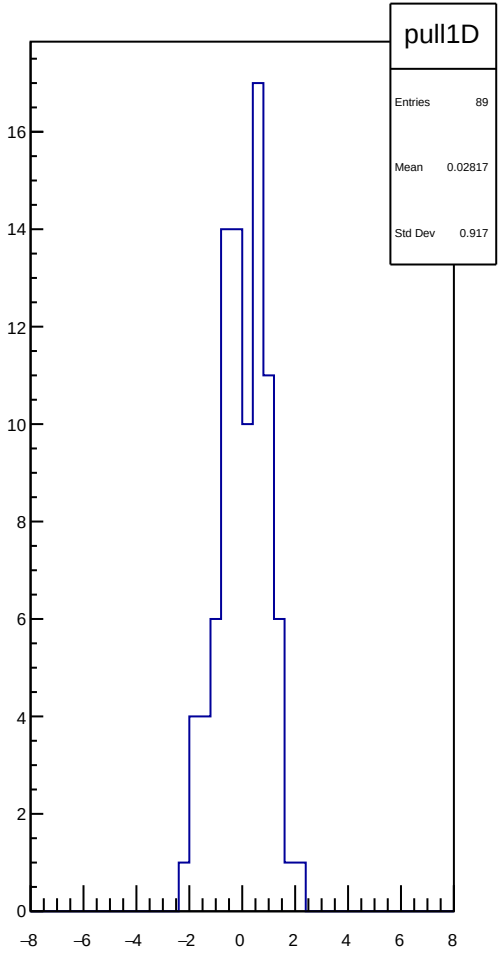

asym_atr1_reg_correction_rms vs run
χ² / ndf 1.288e+04 / 88
p0 1112 ± 0.8482
1500
1400
1300
1200
1100
1000
900

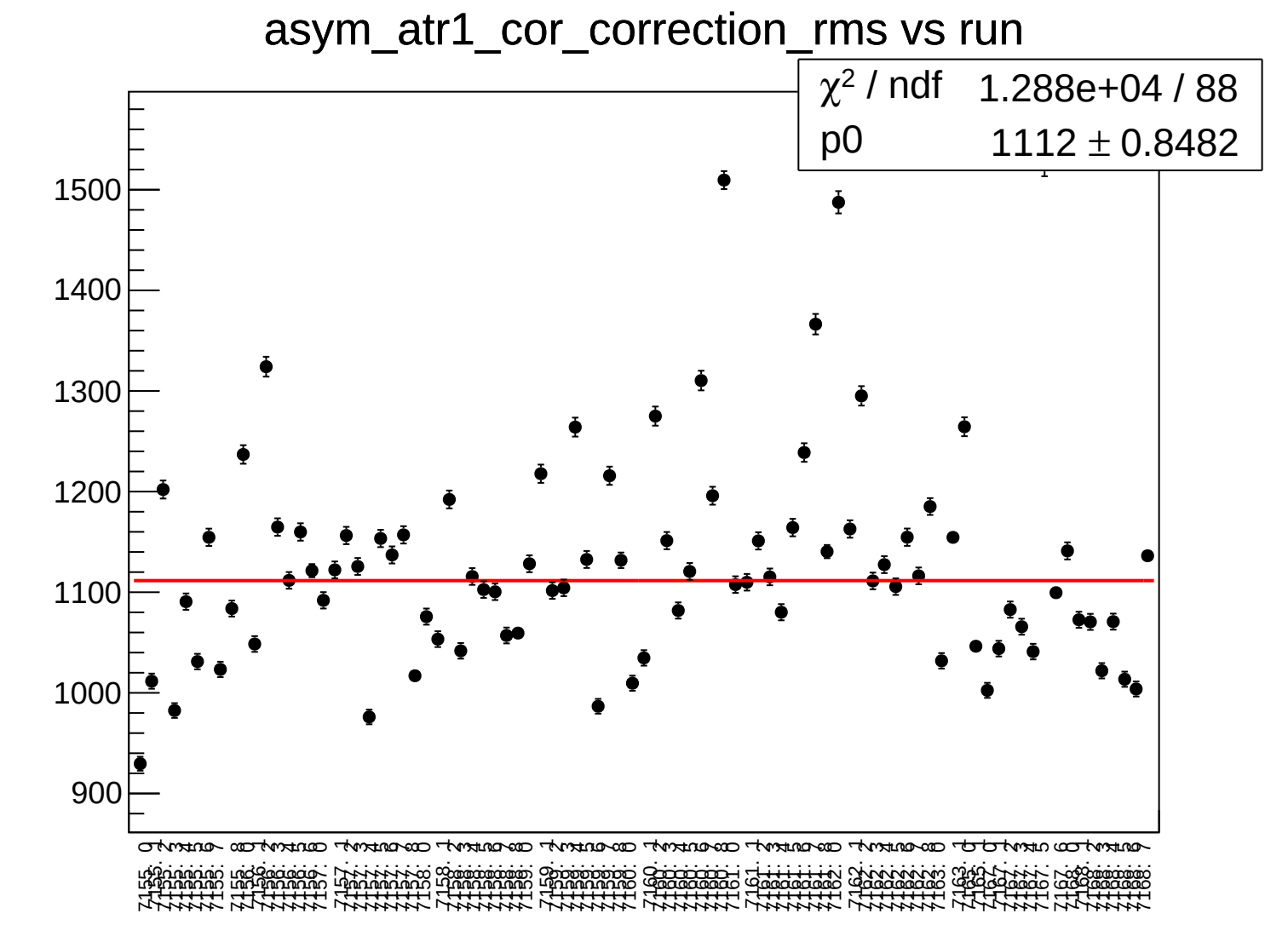

cor_asym_atr1_mean vs run
χ² / ndf 102.8 / 88
p0 −5894 ± 2972
×10³
100
50
0
−50
−100
pull
Entries 89
Mean −429.5
Std Dev 0
2
1
0
−1
−2

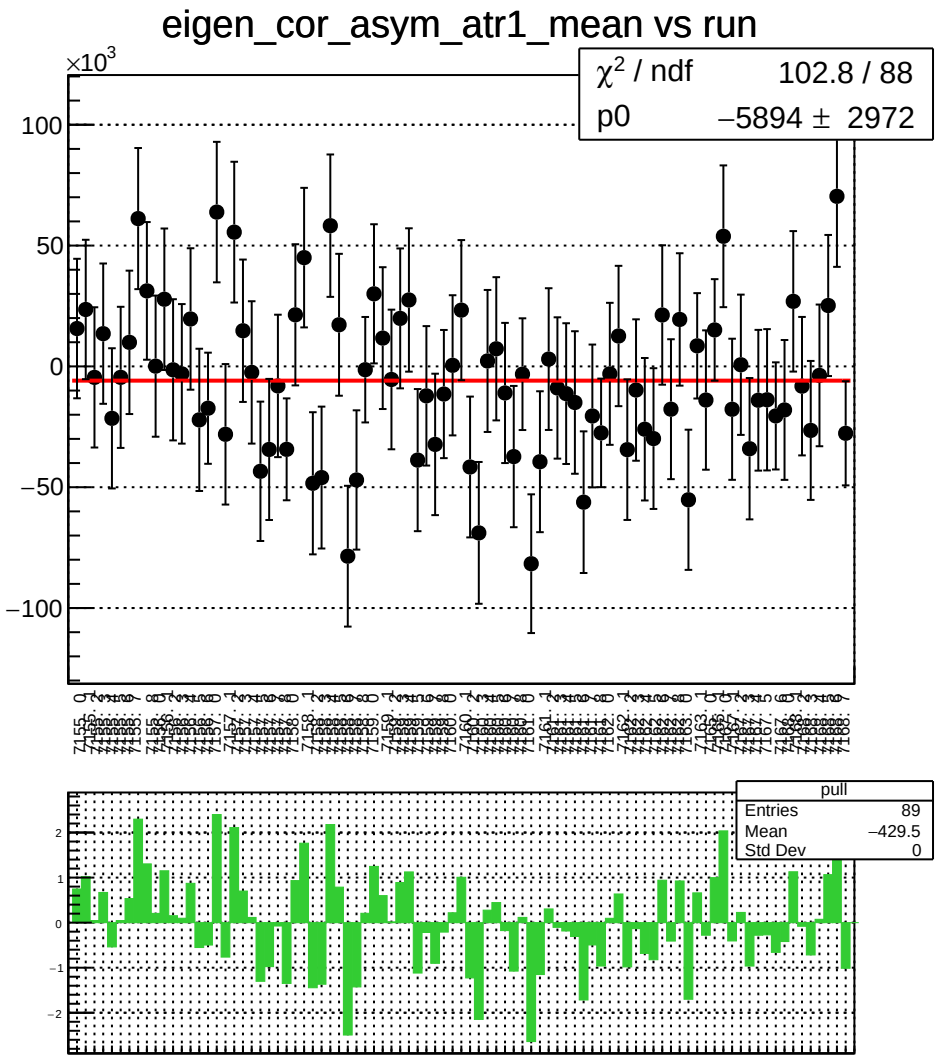

pull1D
Entries 89
Mean 0.008592
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

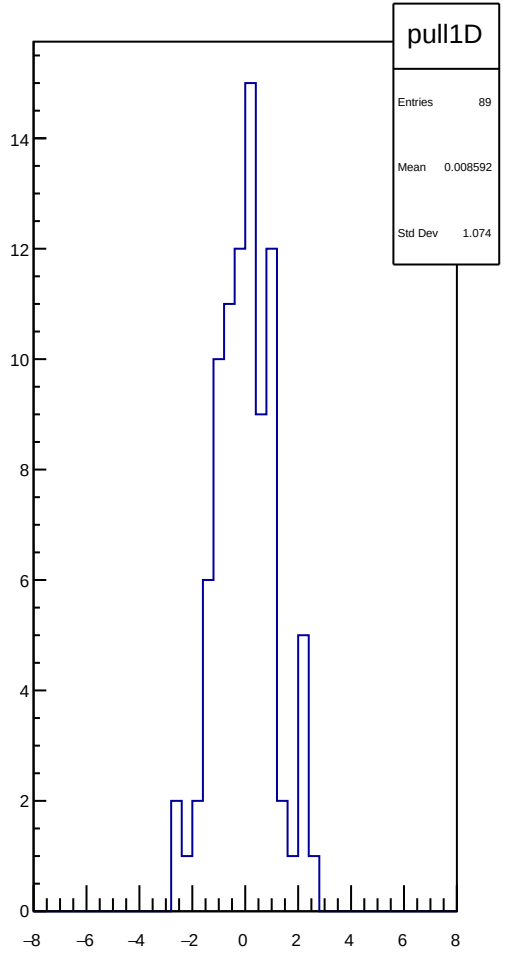

cor_asym_atr1_rms vs run
χ² / ndf 100.1 / 88
p0 2764 ± 2.102
2840
2820
2800
2780
2760
2740
2720
2700

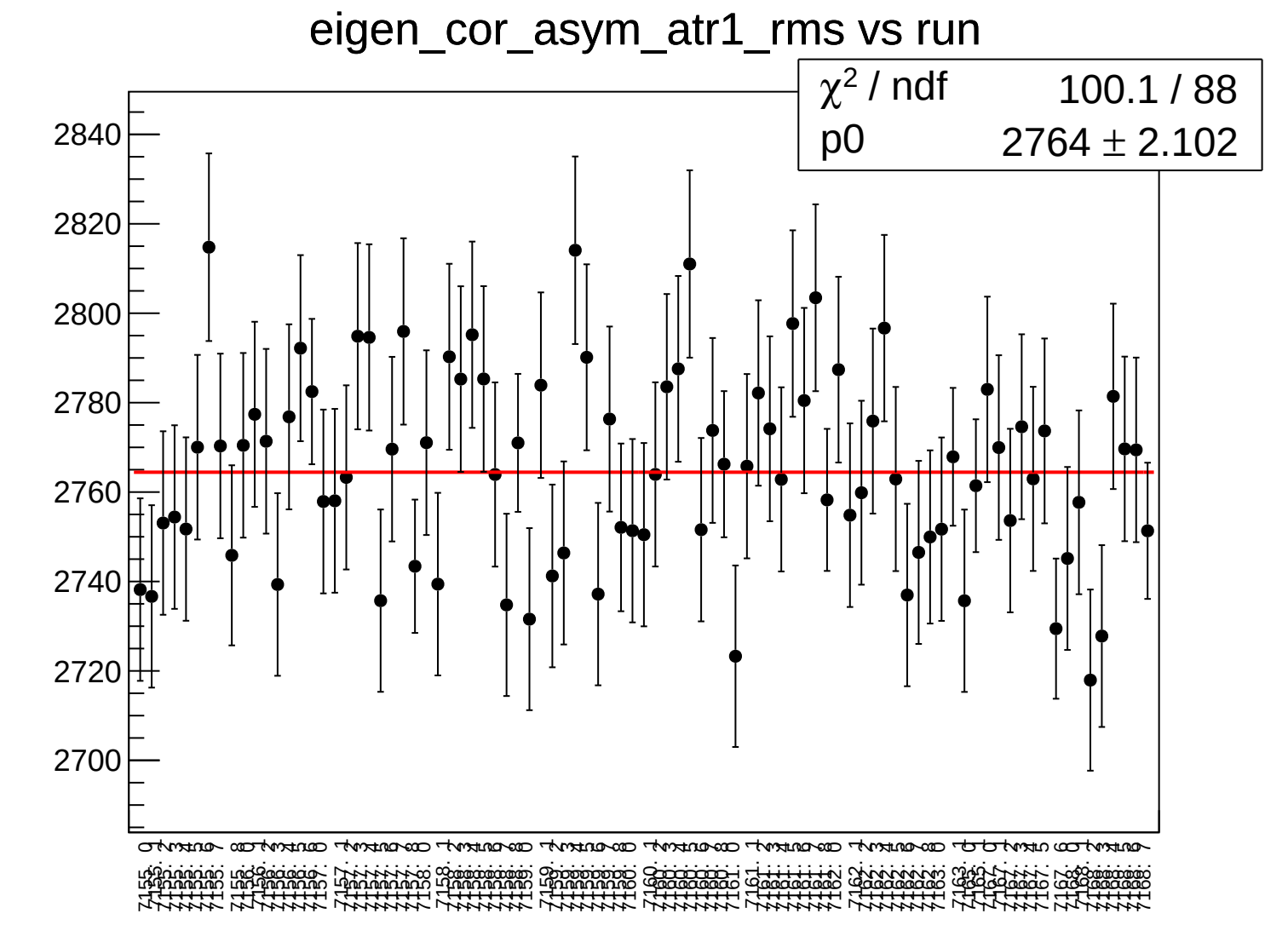

asym_atr1_cor_correction_mean vs run
χ² / ndf 74.91 / 88
p0 106.2 ± 1200
pull
Entries 89
Mean −27.46
Std Dev 0

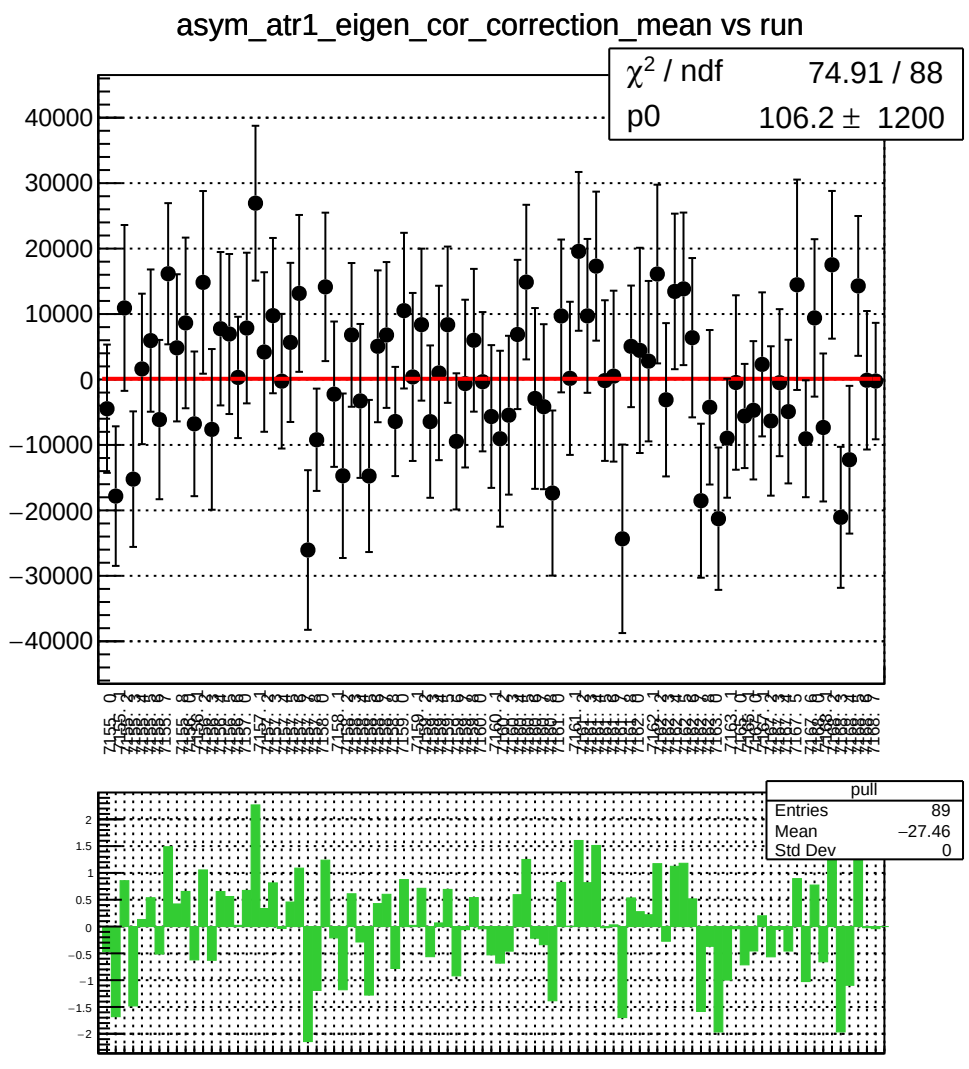

pull1D
Entries 89
Mean 0.02817
Std Dev 0.917

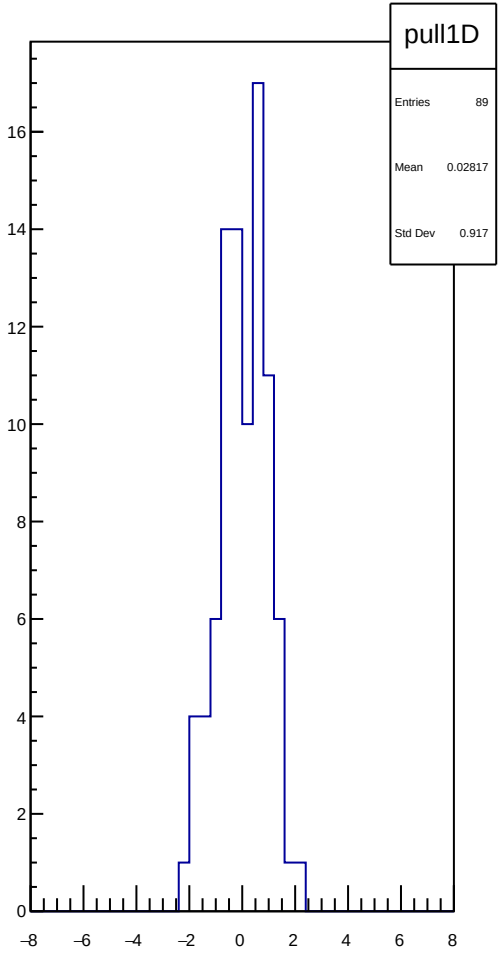

asym_atr1_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 88
p0 1112 ± 0.8482
1500
1400
1300
1200
1100
1000
900

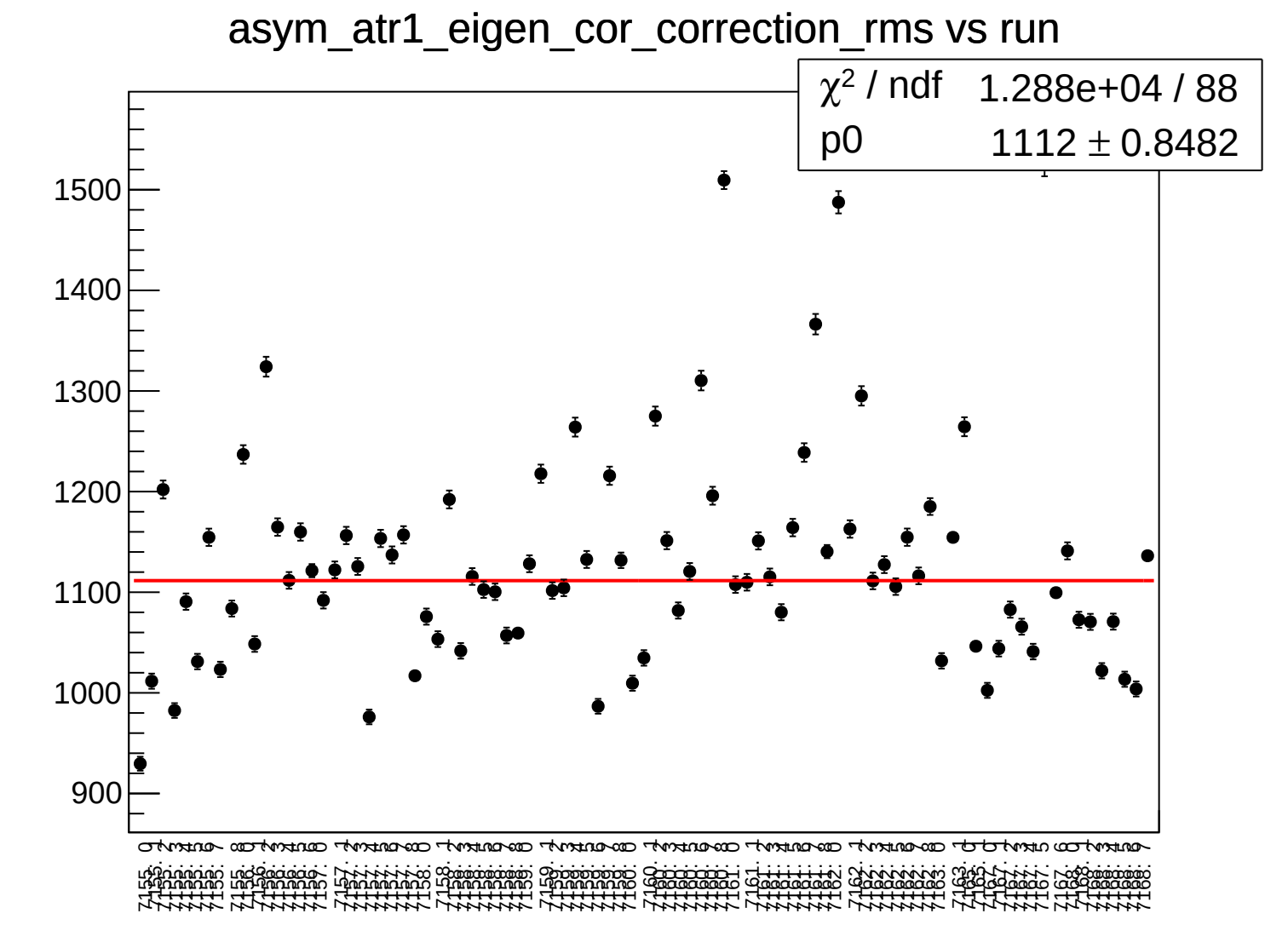

eigen_cor_asym_atr1_mean vs run
×10^3
χ² / ndf 102.8 / 88
p0 −5894 ± 2972
100
50
0
−50
−100
pull
Entries 89
Mean −429.5
Std Dev 0
2
1
0
−1
−2

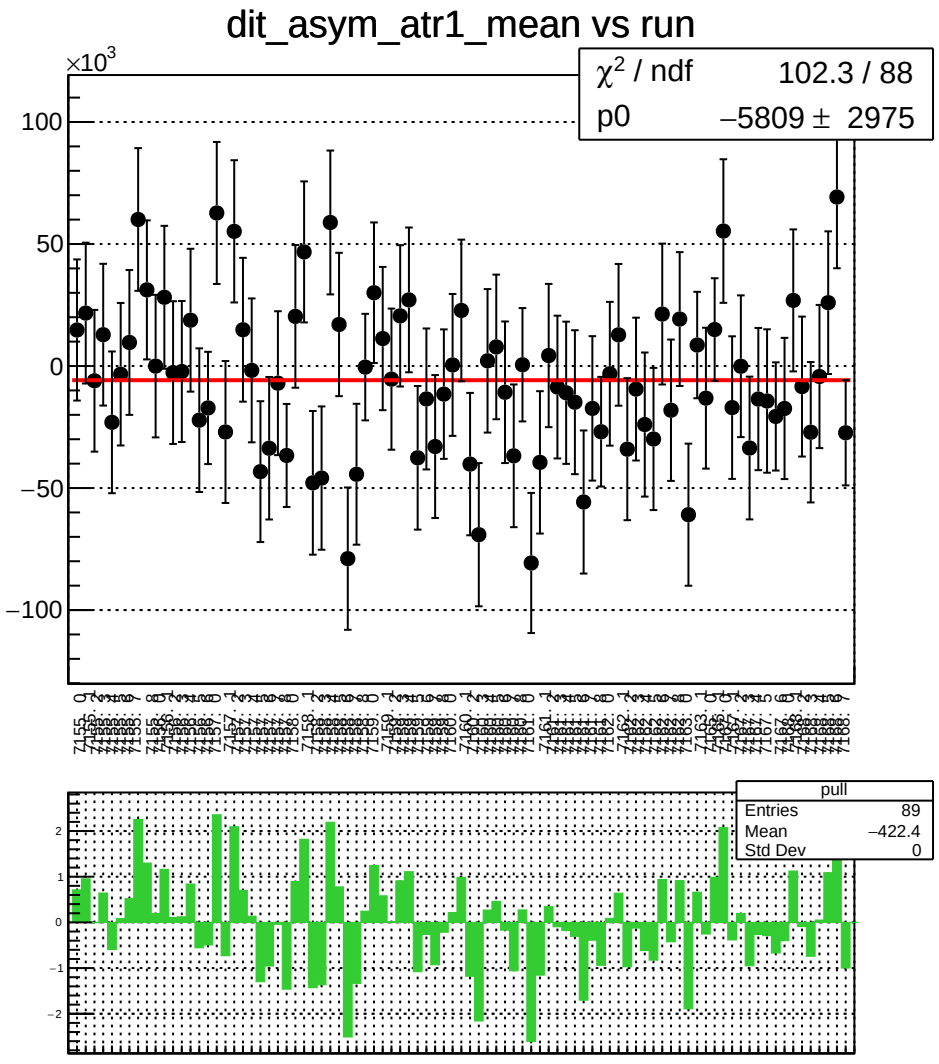

pull1D
Entries 89
Mean 0.008592
Std Dev 1.074
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

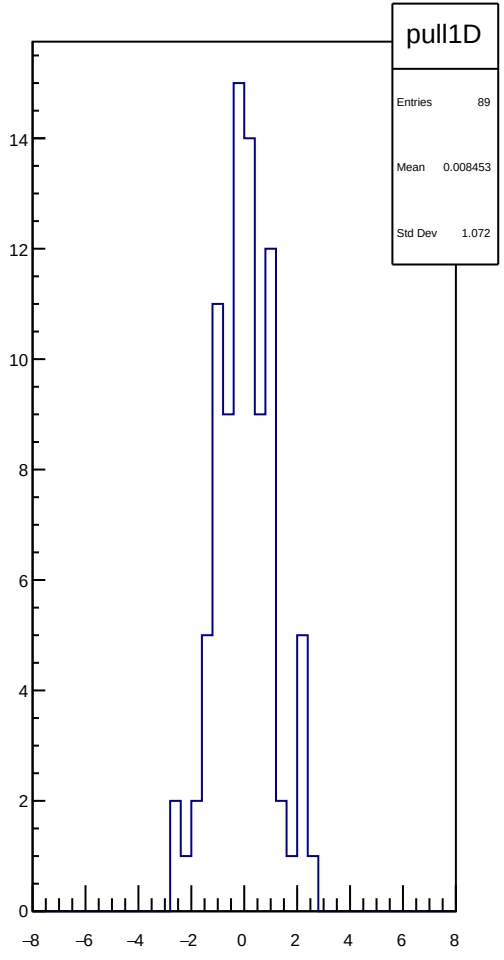

eigen_cor_asym_atr1_rms vs run
χ^2 / ndf 100.1 / 88
p0 2764 ± 2.102
2840
2820
2800
2780
2760
2740
2720
2700

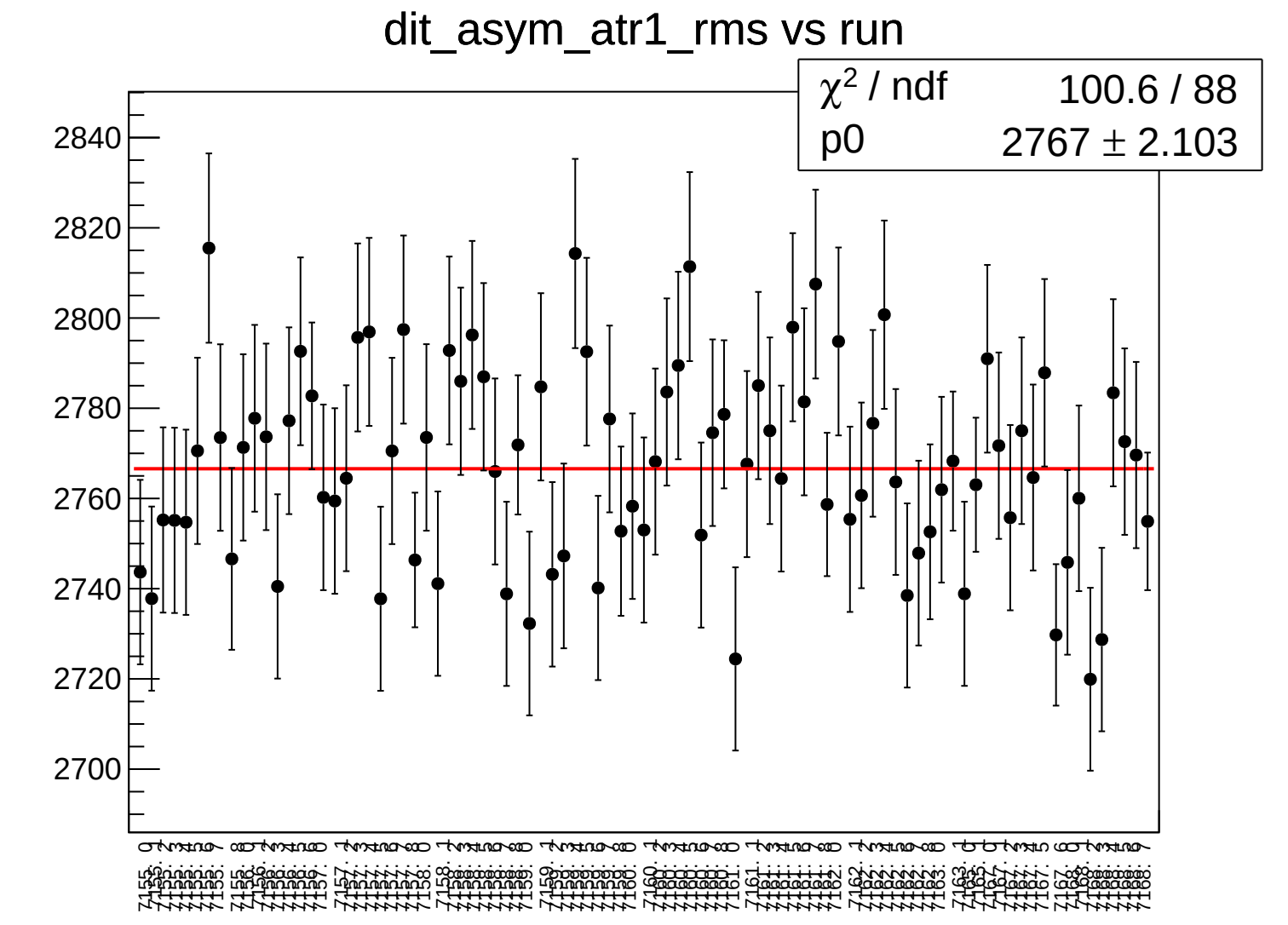

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 74.91 / 88
p0 106.2 ± 1200
pull
Entries 89
Mean −27.46
Std Dev 0

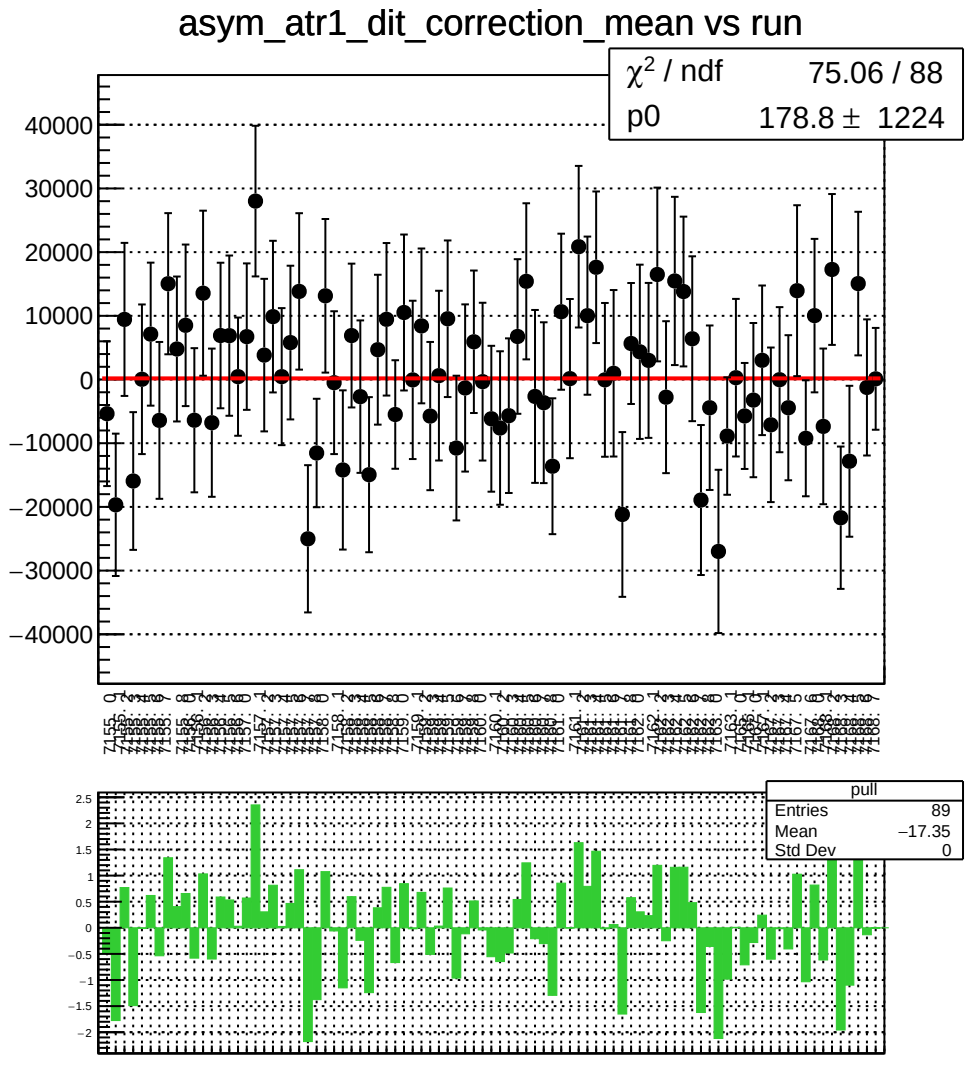

pull1D
Entries 89
Mean 0.02817
Std Dev 0.917

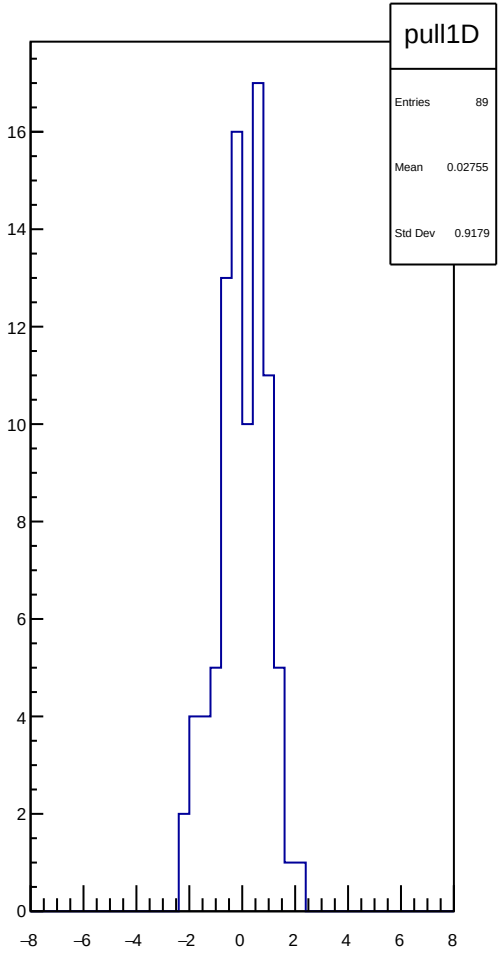

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 1.288e+04 / 88
p0 1112 ± 0.8482
1500
1400
1300
1200
1100
1000
900

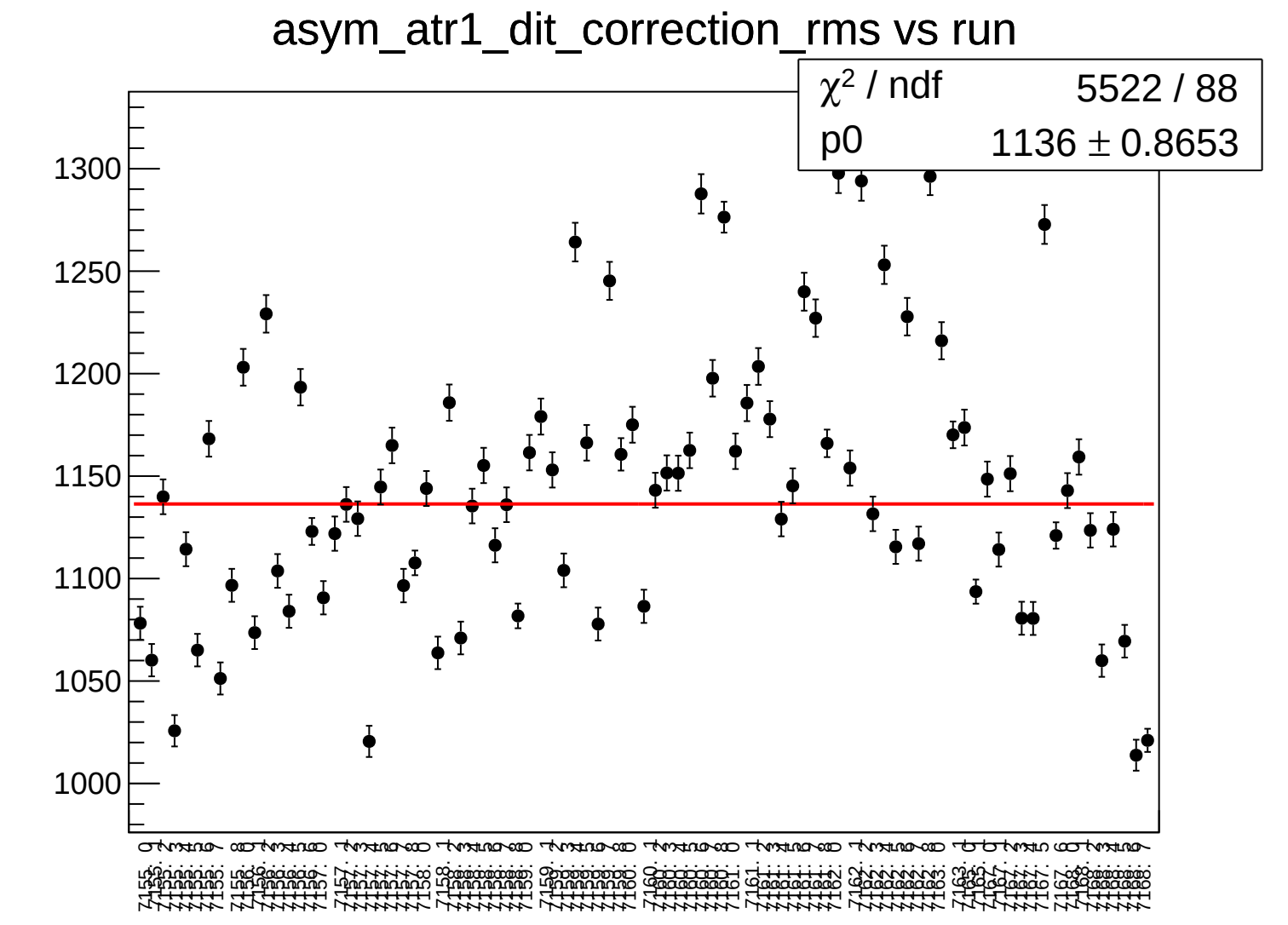

dit_asym_atr1_mean vs run
×10^3
χ² / ndf 102.3 / 88
p0 −5809 ± 2975
100
50
0
−50
−100
pull
Entries 89
Mean −422.4
Std Dev 0
2
1
0
−1
−2

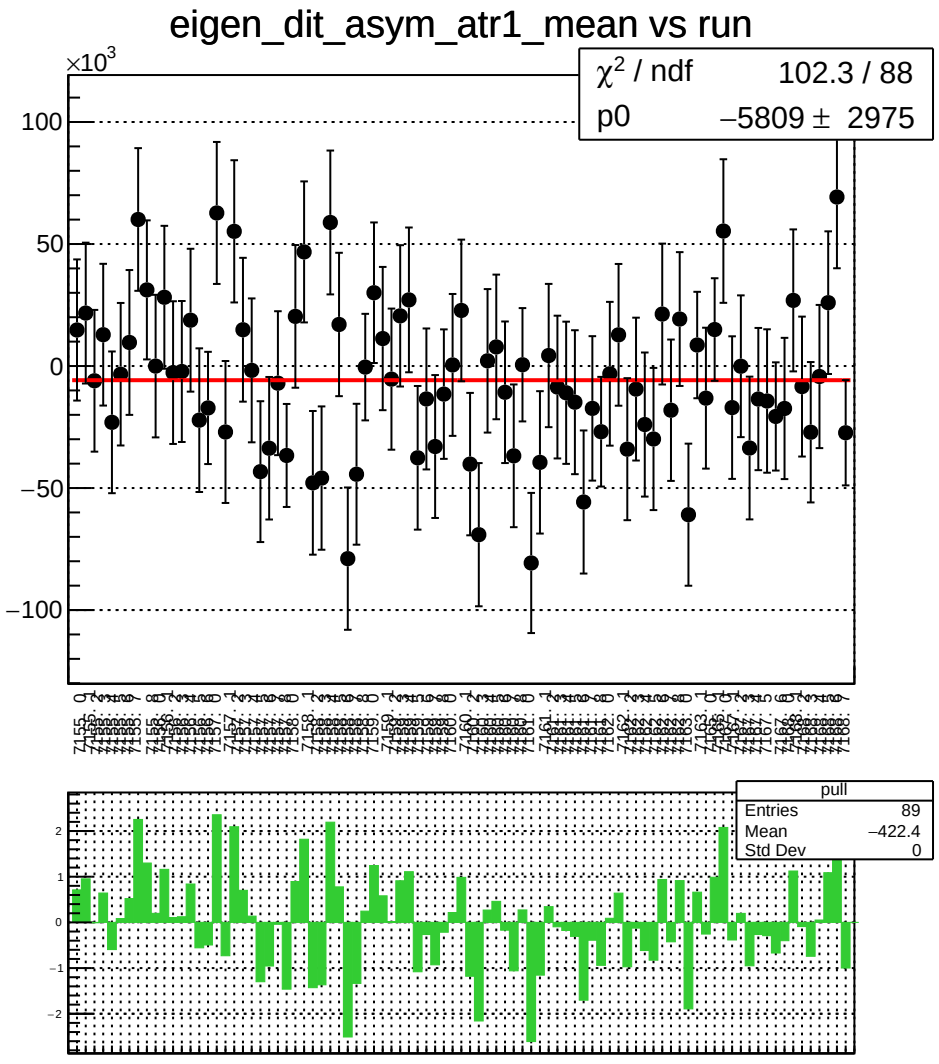

pull1D
Entries 89
Mean 0.008453
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

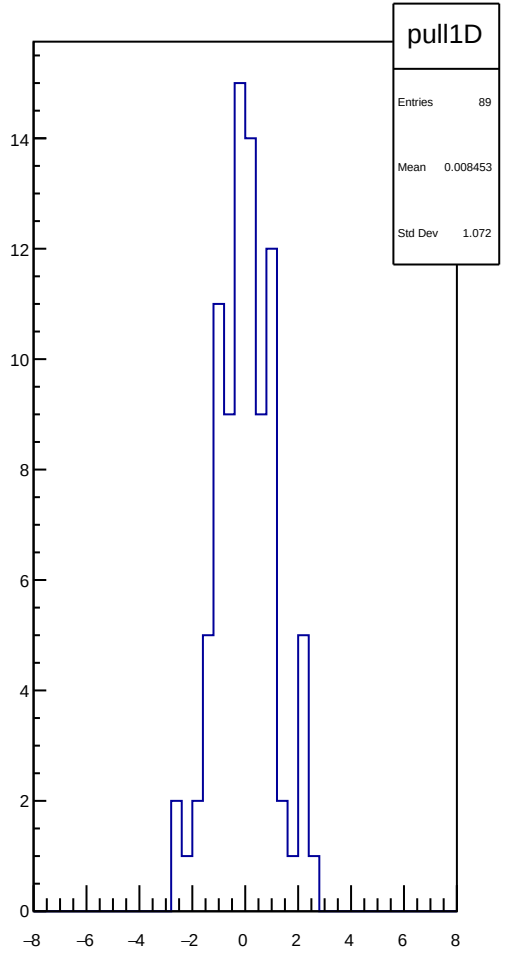

dit_asym_atr1_rms vs run
χ² / ndf 100.6 / 88
p0 2767 ± 2.103
2840
2820
2800
2780
2760
2740
2720
2700

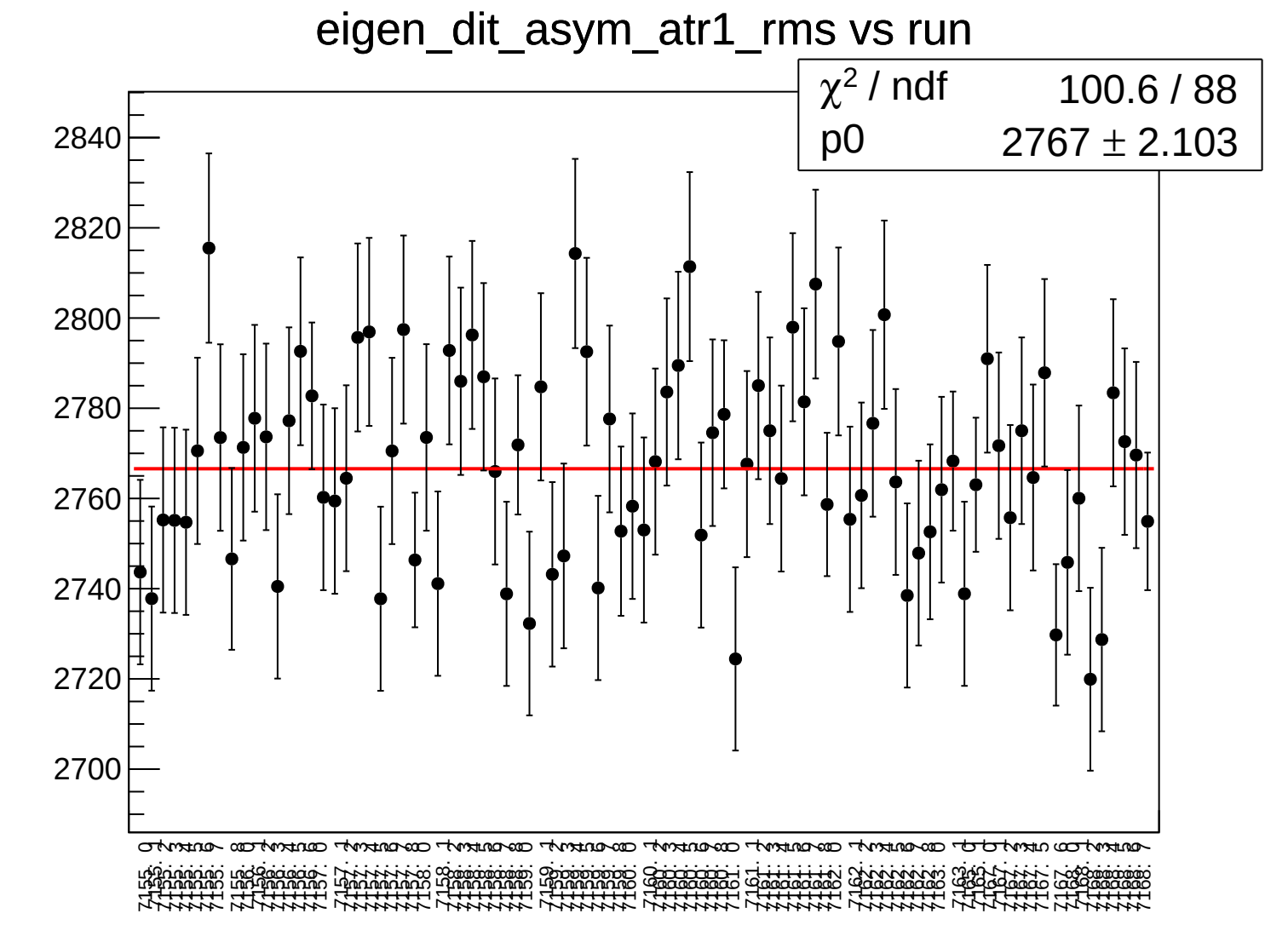

asym_atr1_dit_correction_mean vs run
χ² / ndf 75.06 / 88
p0 178.8 ± 1224
pull
Entries 89
Mean −17.35
Std Dev 0

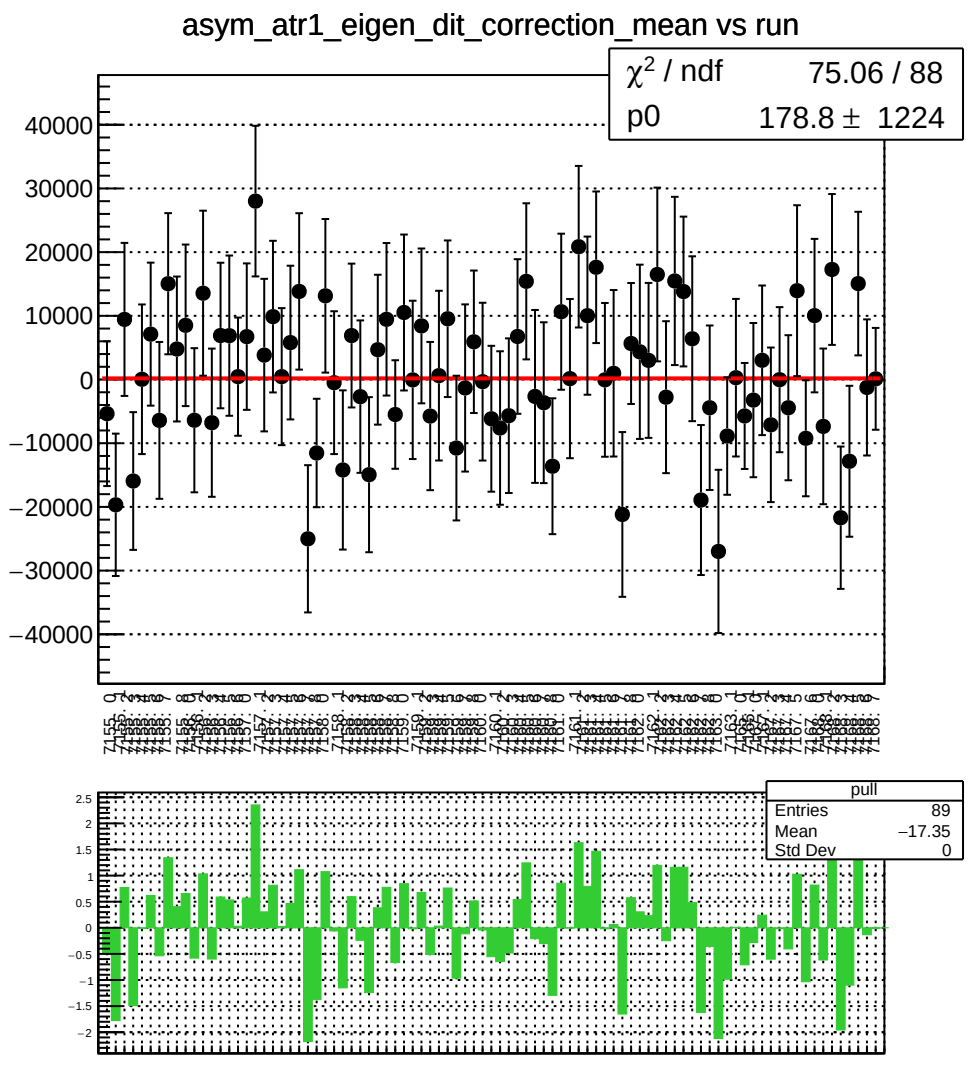

pull1D
Entries 89
Mean 0.02755
Std Dev 0.9179

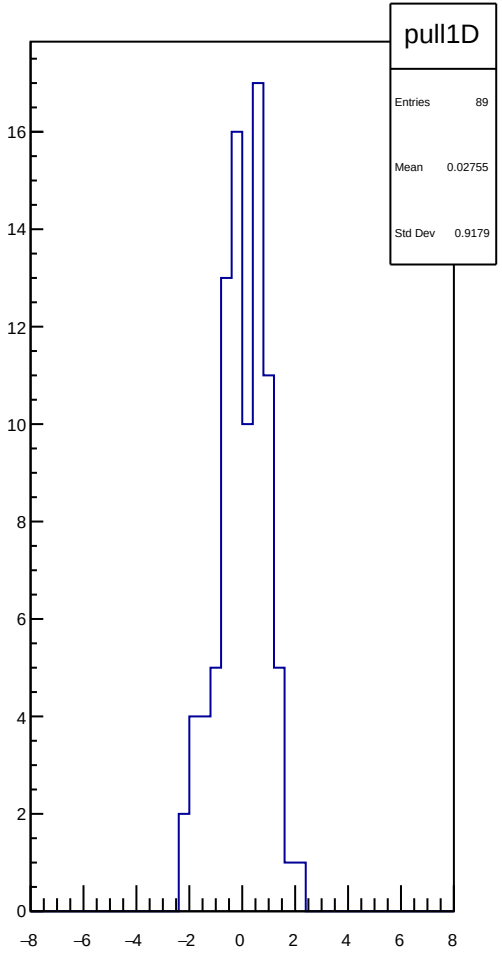

asym_atr1_dit_correction_rms vs run
χ² / ndf 5522 / 88
p0 1136 ± 0.8653
1300
1250
1200
1150
1100
1050
1000

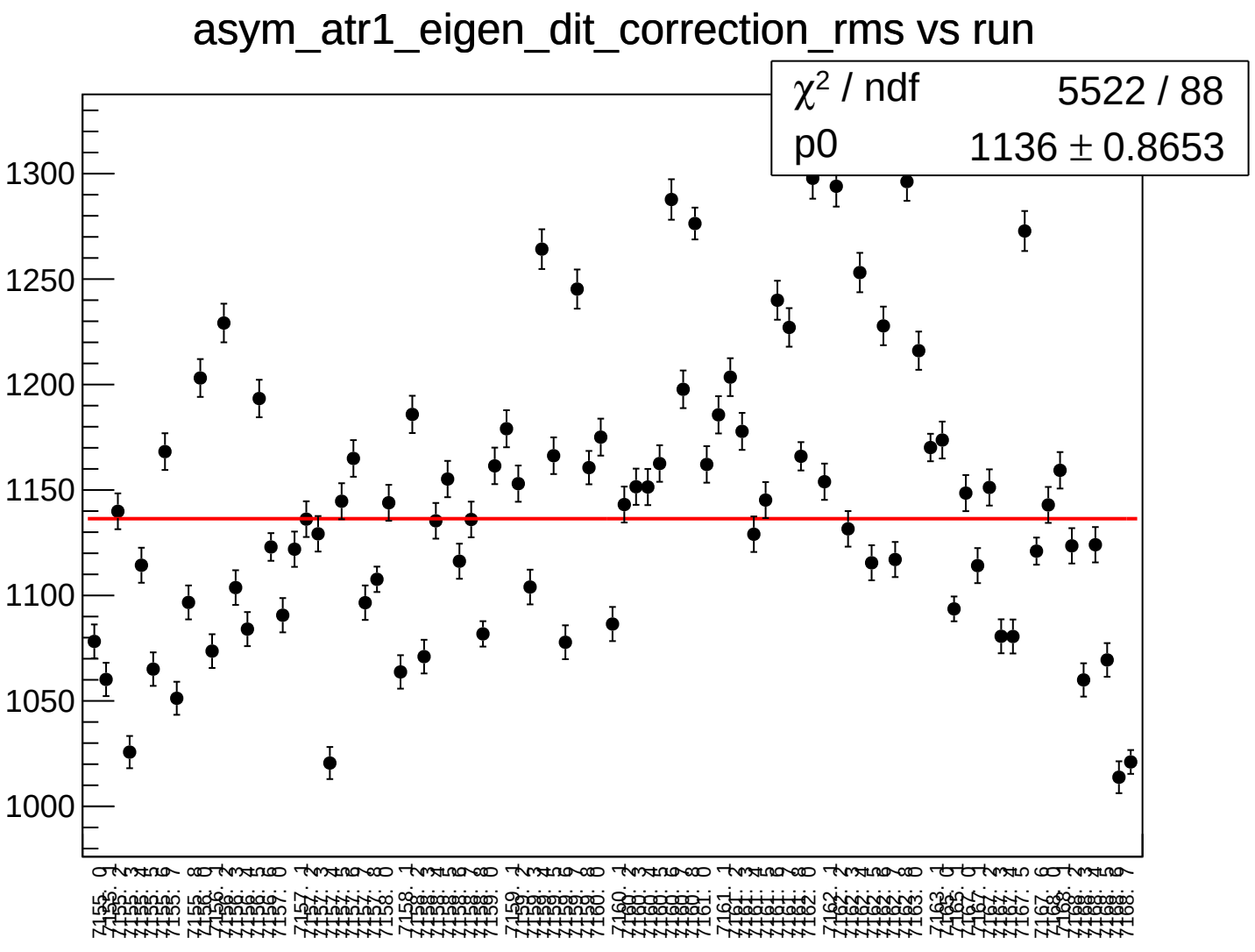

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 102.3 / 88
p0 −5809 ± 2975
100
50
0
−50
−100
pull
Entries 89
Mean −422.4
Std Dev 0
2
1
0
−1
−2

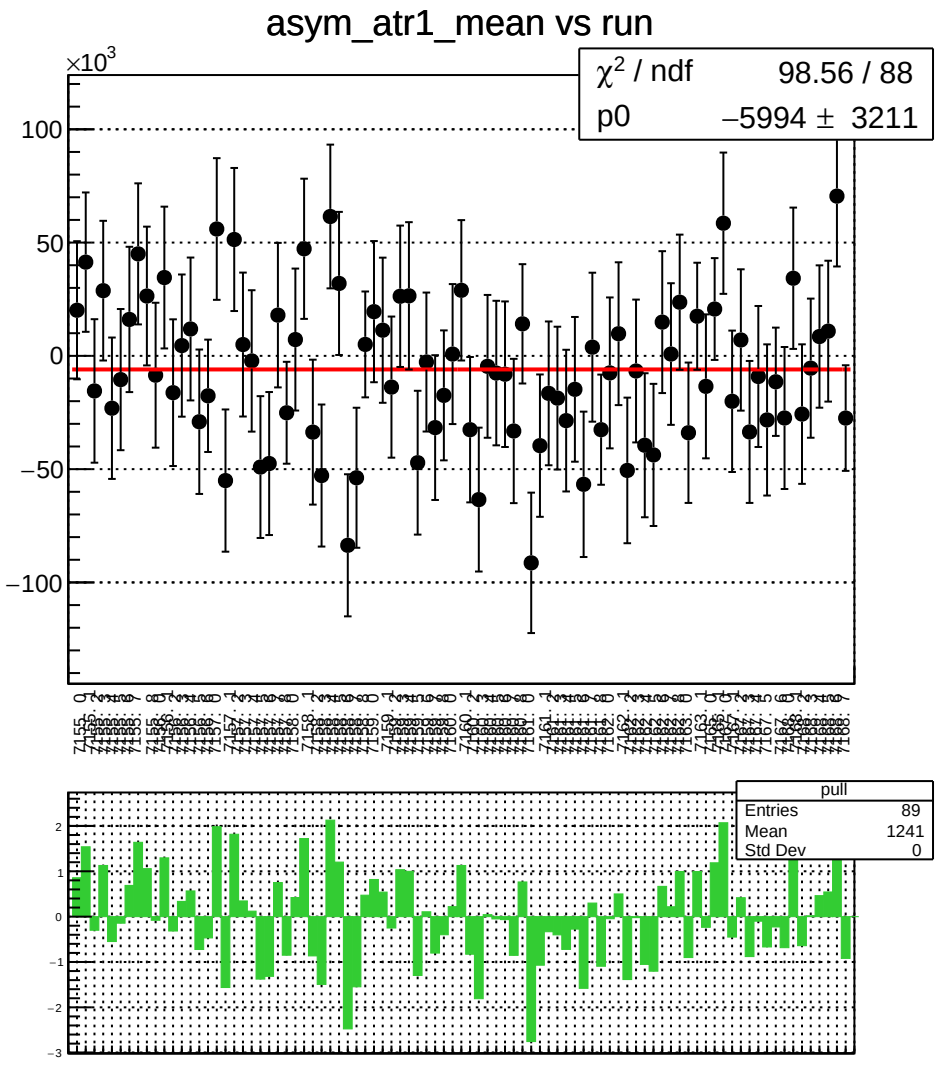

pull1D
Entries 89
Mean 0.008453
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

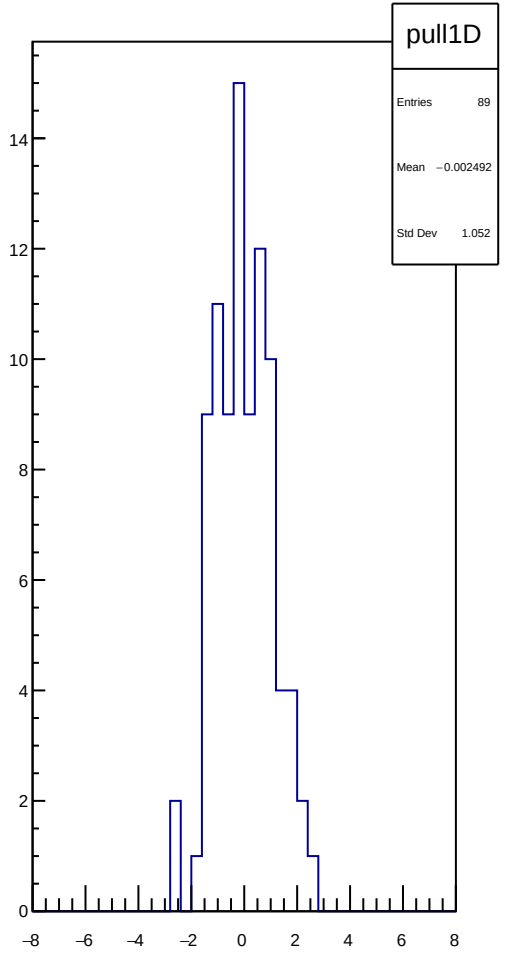

eigen_dit_asym_atr1_rms vs run
χ² / ndf 100.6 / 88
p0 2767 ± 2.103
2840
2820
2800
2780
2760
2740
2720
2700

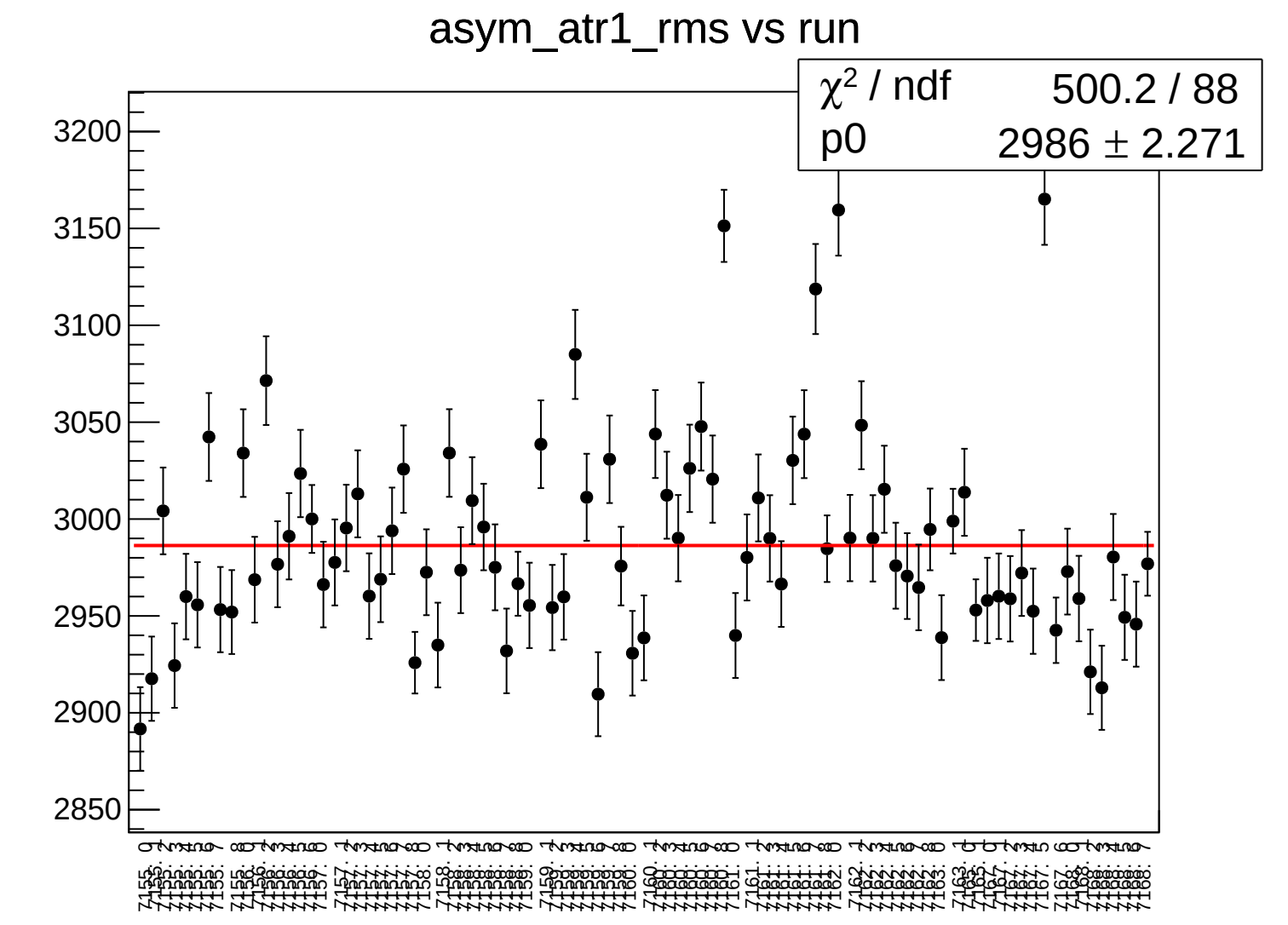

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 75.06 / 88
p0 178.8 ± 1224
pull
Entries 89
Mean −17.35
Std Dev 0

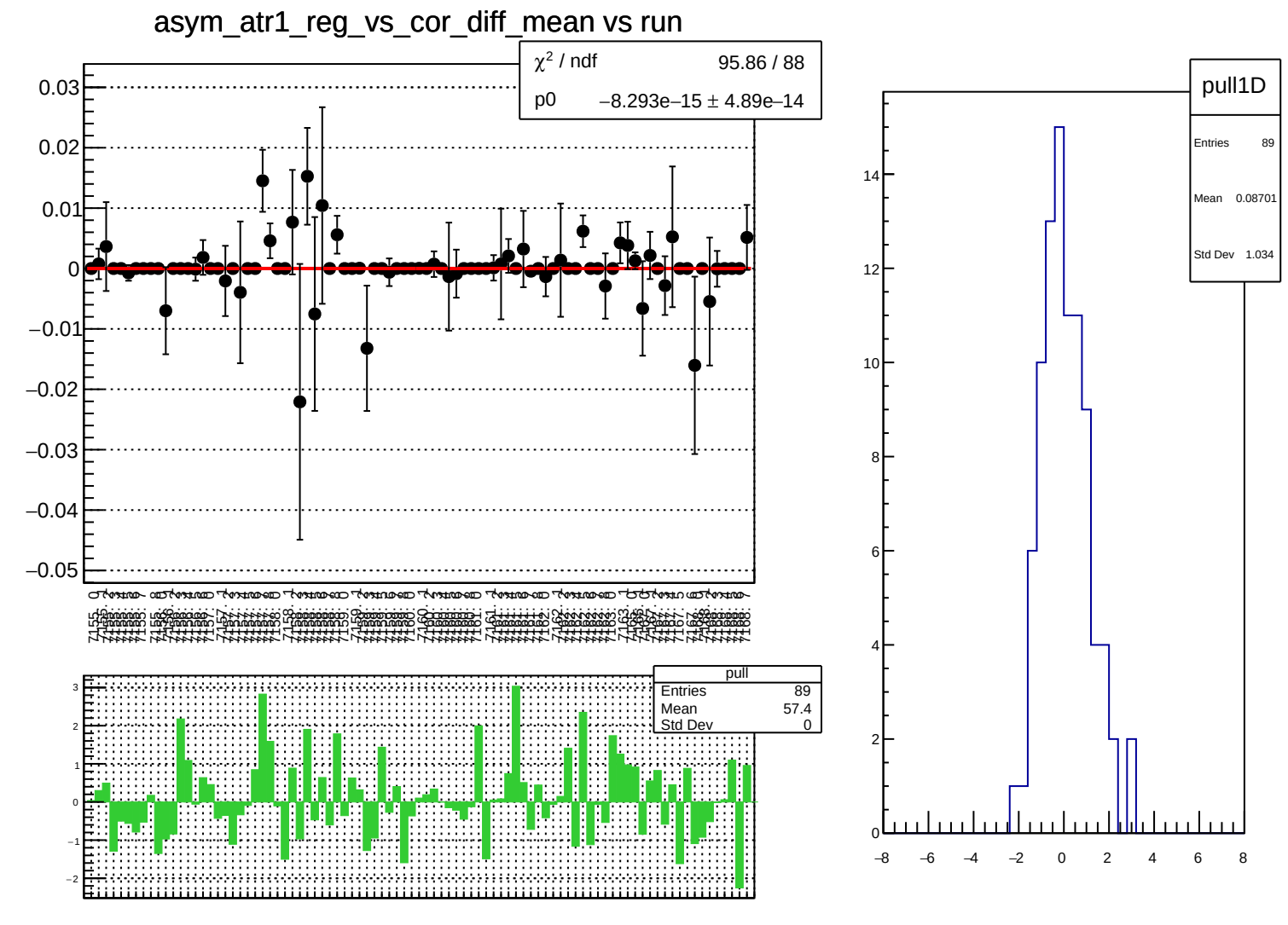

pull1D
Entries 89
Mean 0.02755
Std Dev 0.9179

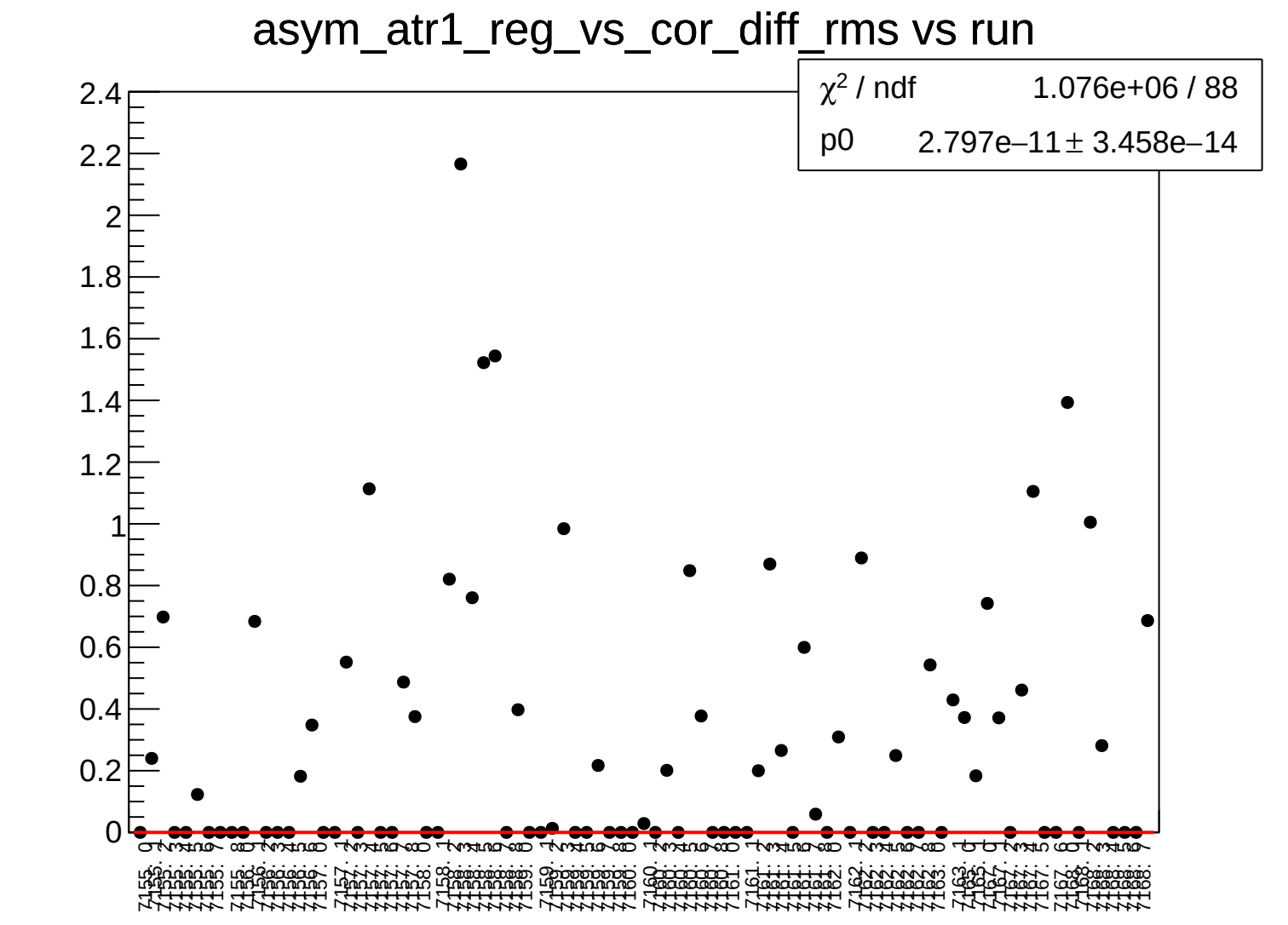

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 5522 / 88
p0 1136 ± 0.8653
1300
1250
1200
1150
1100
1050
1000

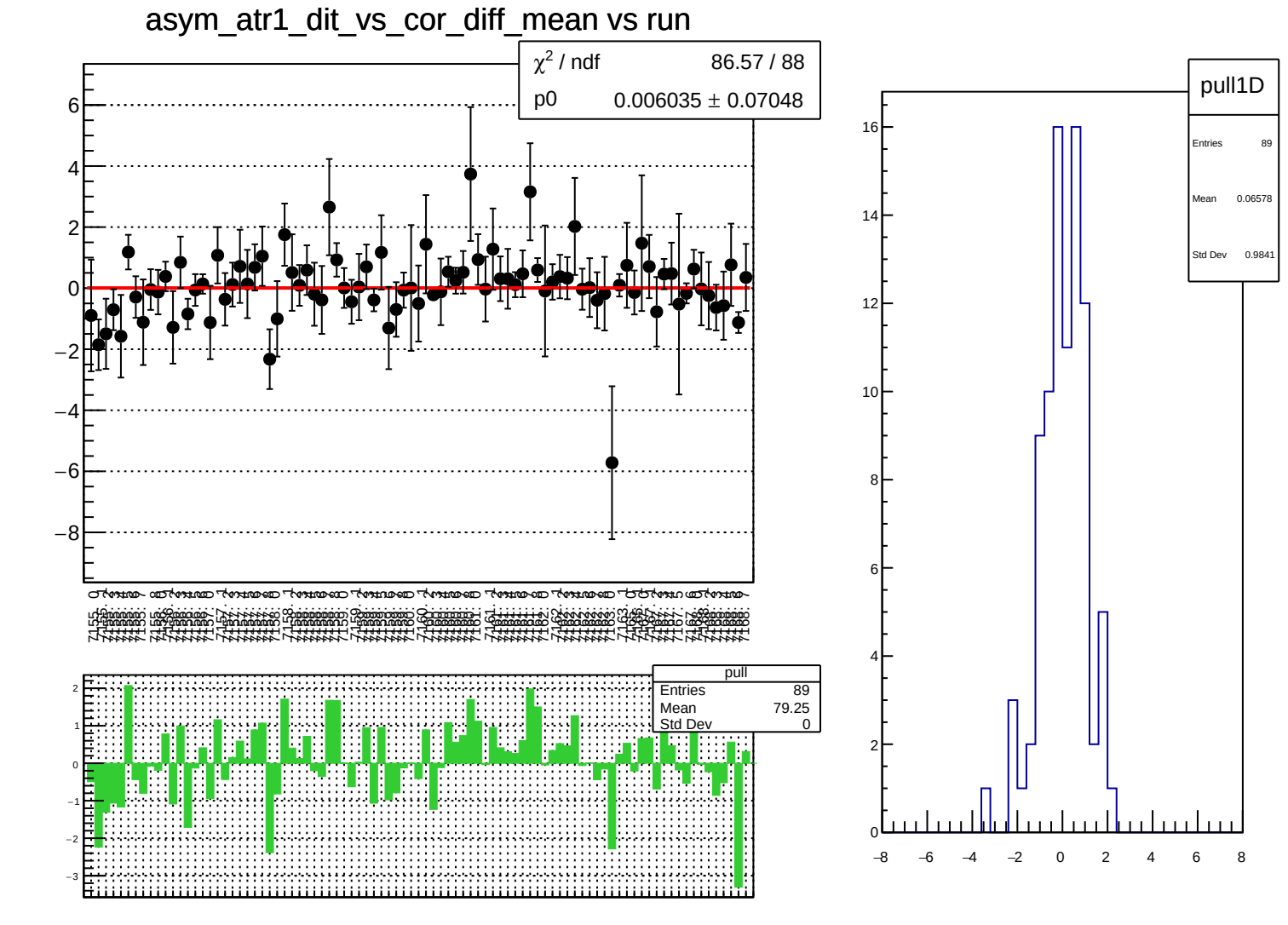

asym_atr1_mean vs run
×10^3
χ² / ndf 98.56 / 88
p0 −5994 ± 3211
100
50
0
−50
−100
pull
Entries 89
Mean 1241
Std Dev 0
2
1
0
−1
−2
−3

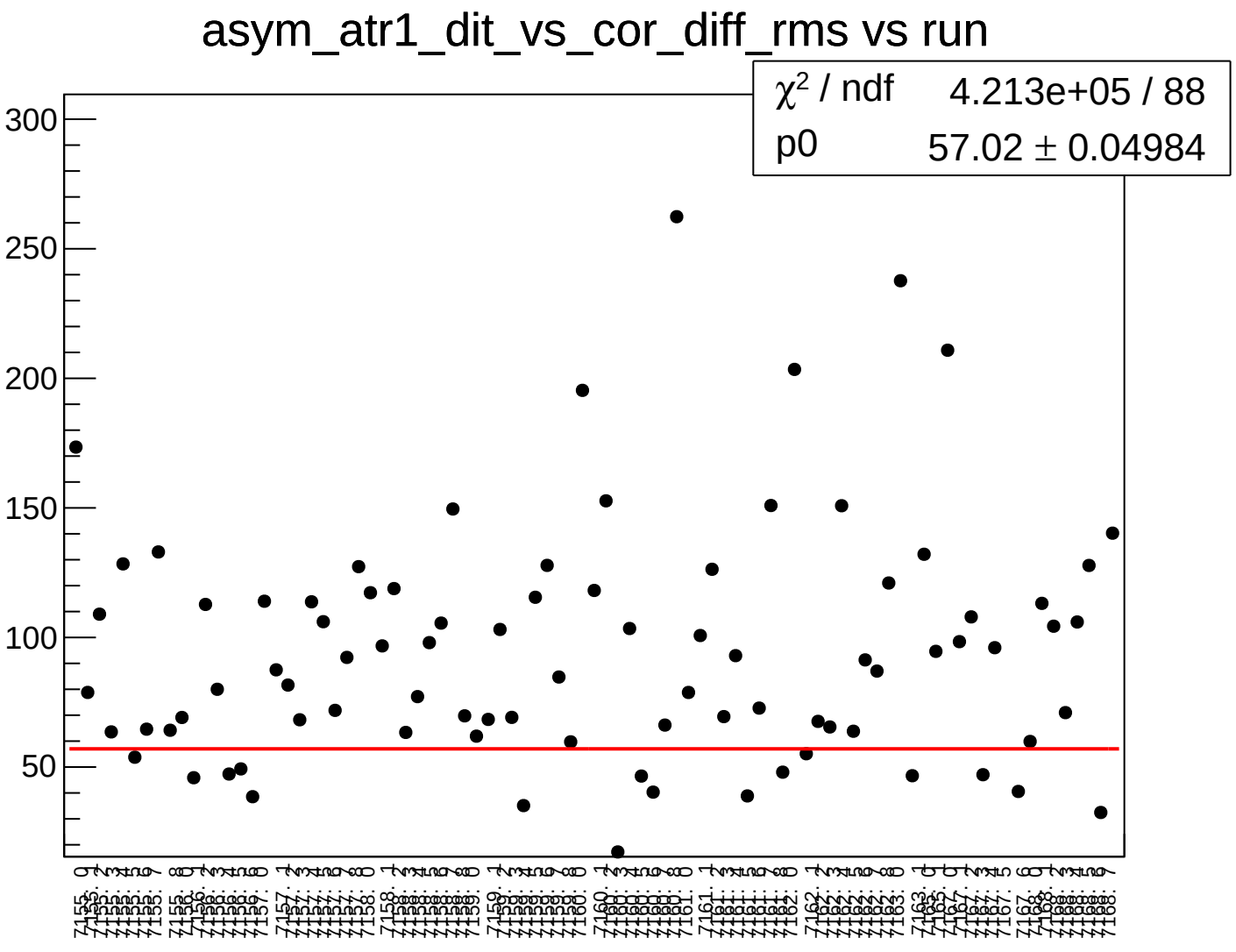

pull1D
Entries 89
Mean −0.002492
Std Dev 1.052
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

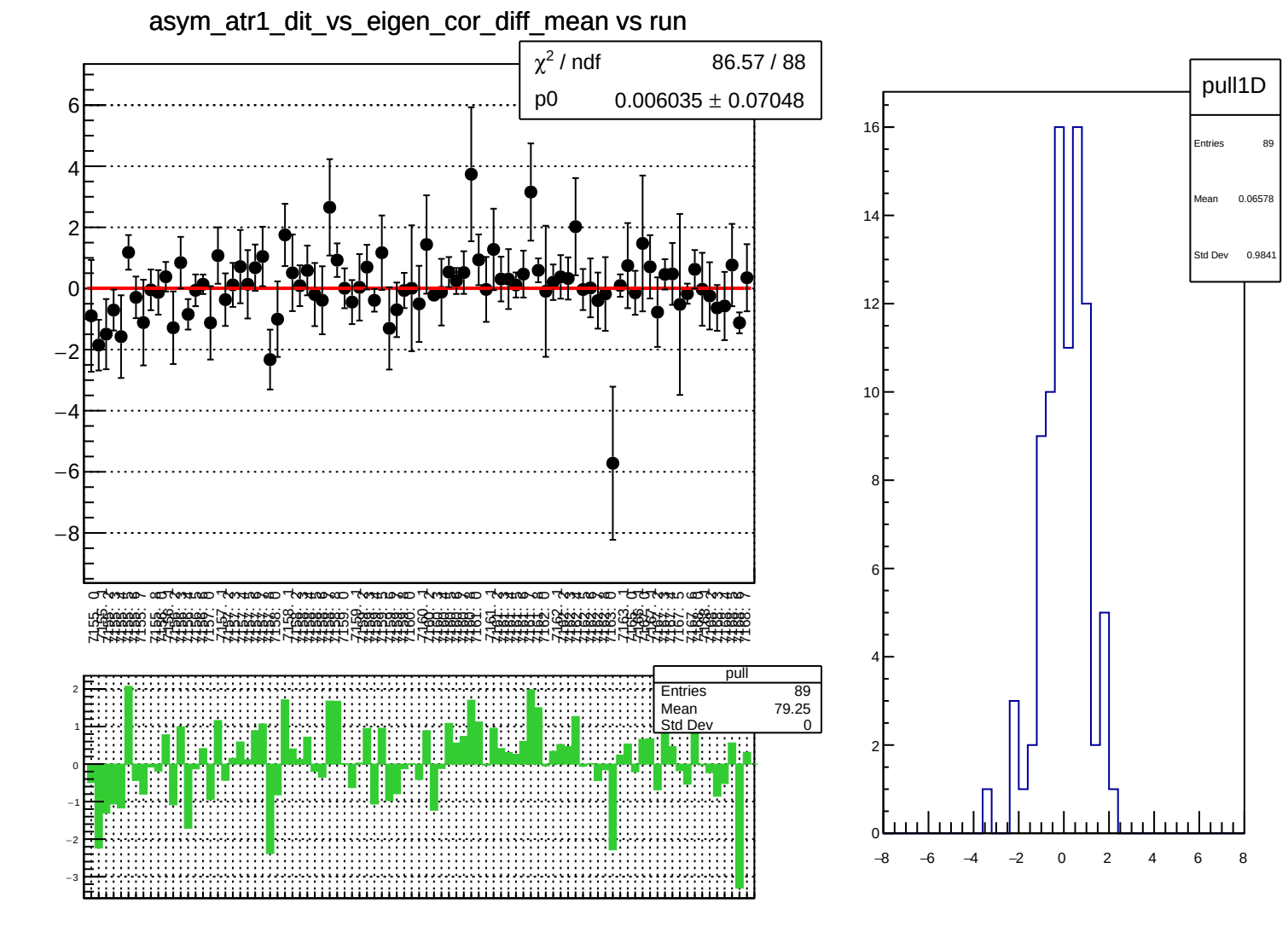

asym_atr1_rms vs run
χ^2 / ndf 500.2 / 88
p0 2986 ± 2.271
3200
3150
3100
3050
3000
2950
2900
2850

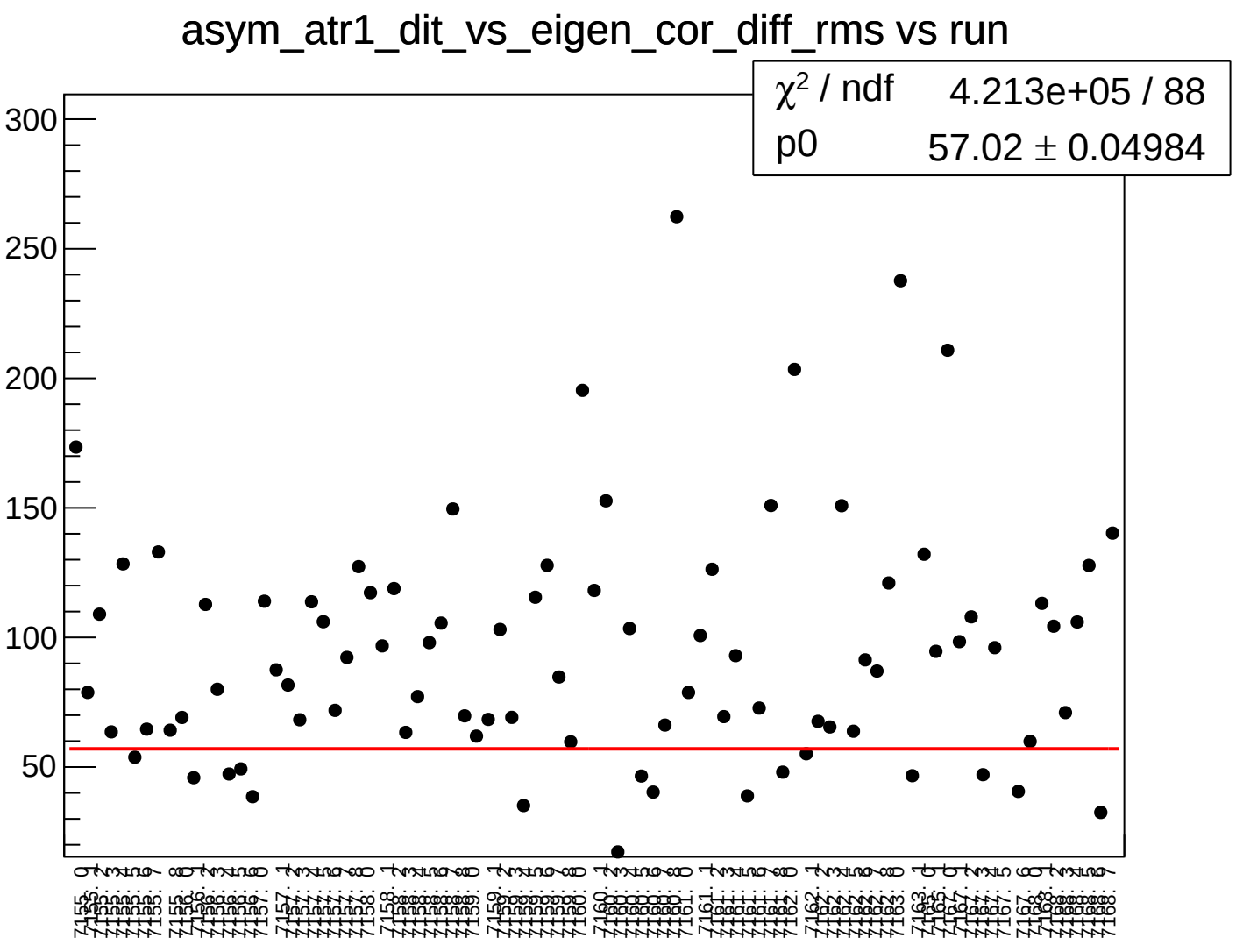

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 95.86 / 88
p0 −8.293e−15 ± 4.89e−14
pull
Entries 89
Mean 57.4
Std Dev 0
pull1D
Entries 89
Mean 0.08701
Std Dev 1.034

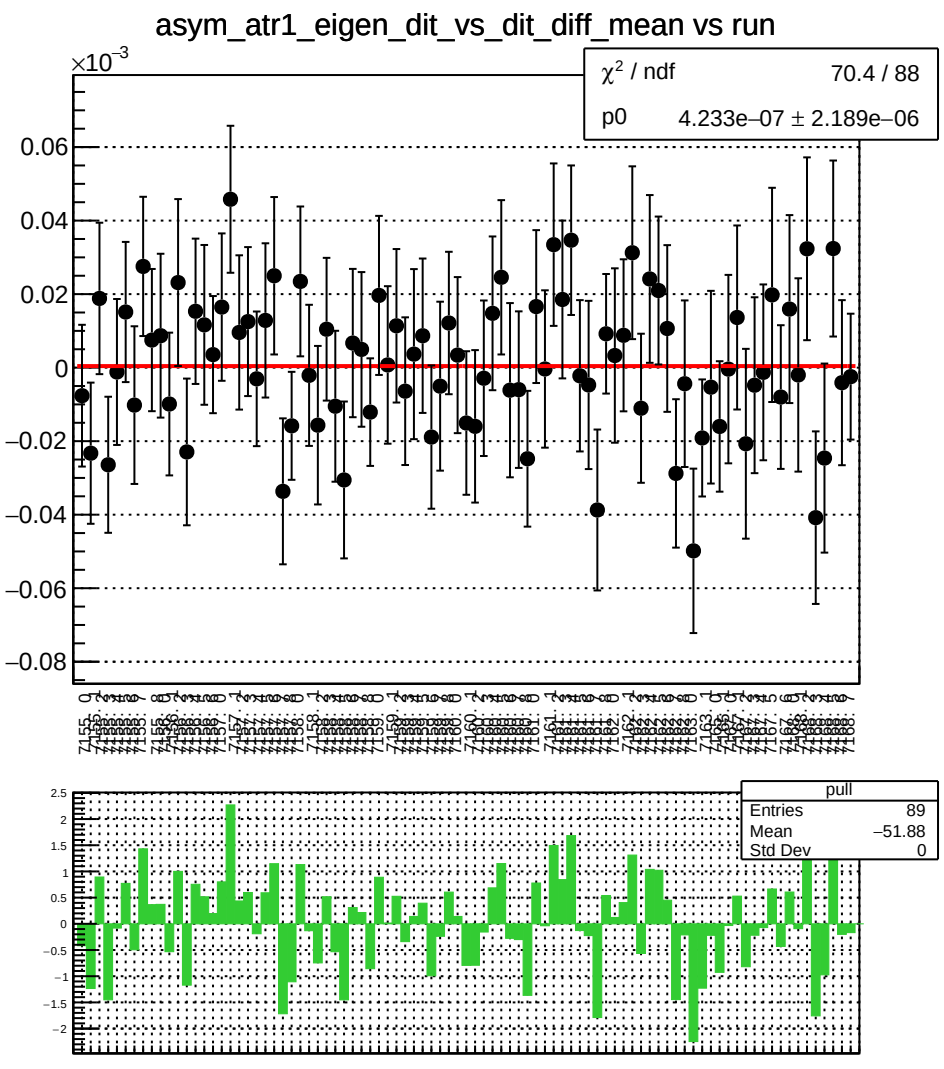

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.076e+06 / 88
p0 2.797e−11 ± 3.458e−14
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

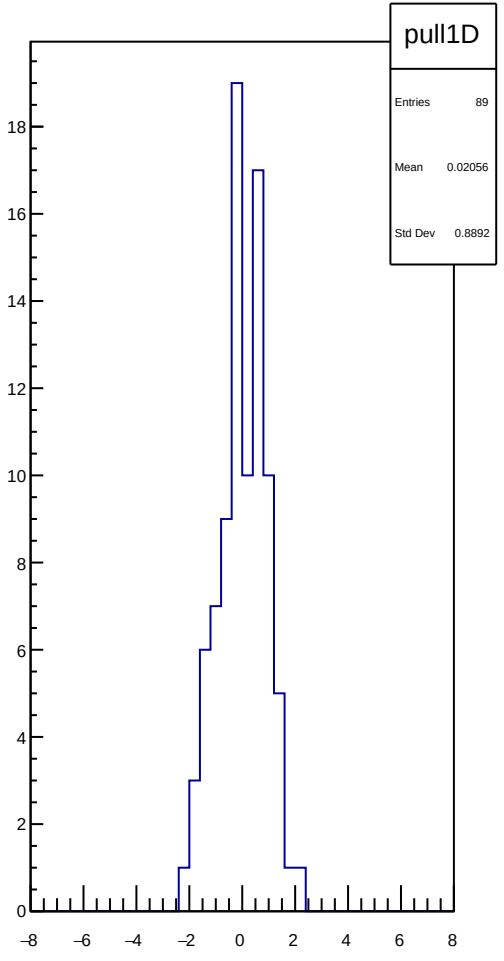

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 86.57 / 88
p0 0.006035 ± 0.07048
pull
Entries 89
Mean 79.25
Std Dev 0
pull1D
Entries 89
Mean 0.06578
Std Dev 0.9841

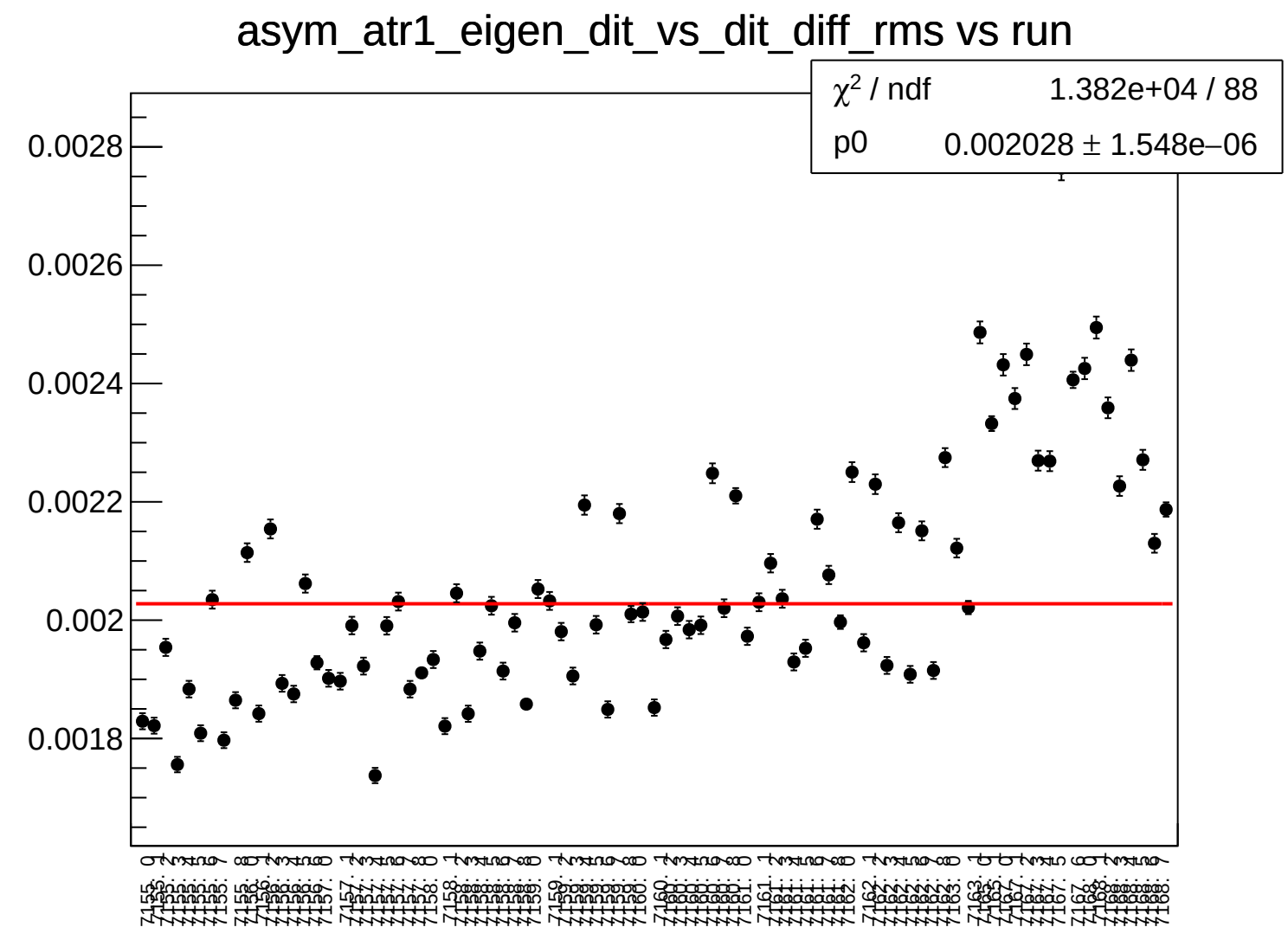

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 4.213e+05 / 88
p0 57.02 ± 0.04984
300
250
200
150
100
50

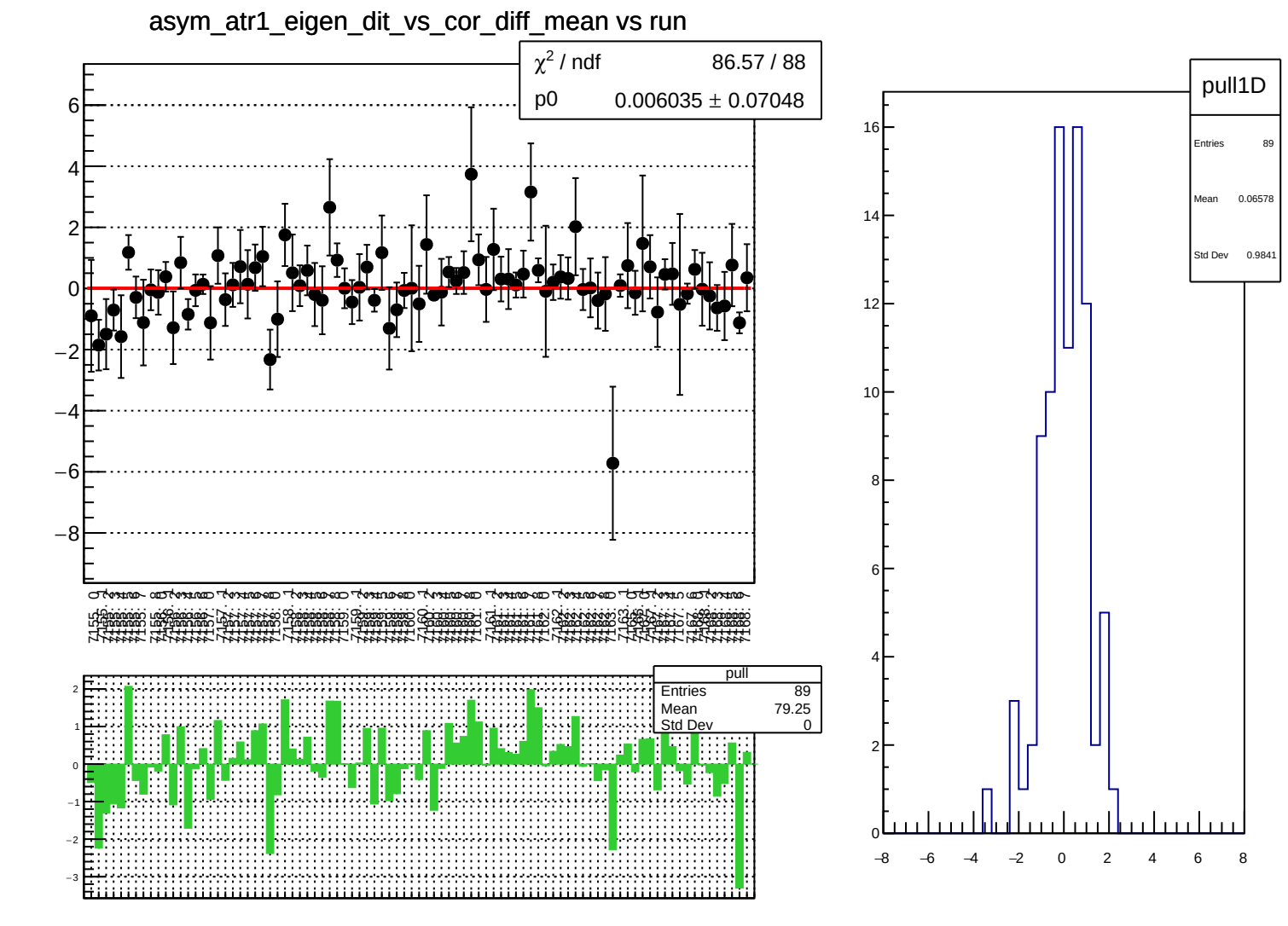

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.57 / 88
p0 0.006035 ± 0.07048
pull
Entries 89
Mean 79.25
Std Dev 0
pull1D
Entries 89
Mean 0.06578
Std Dev 0.9841

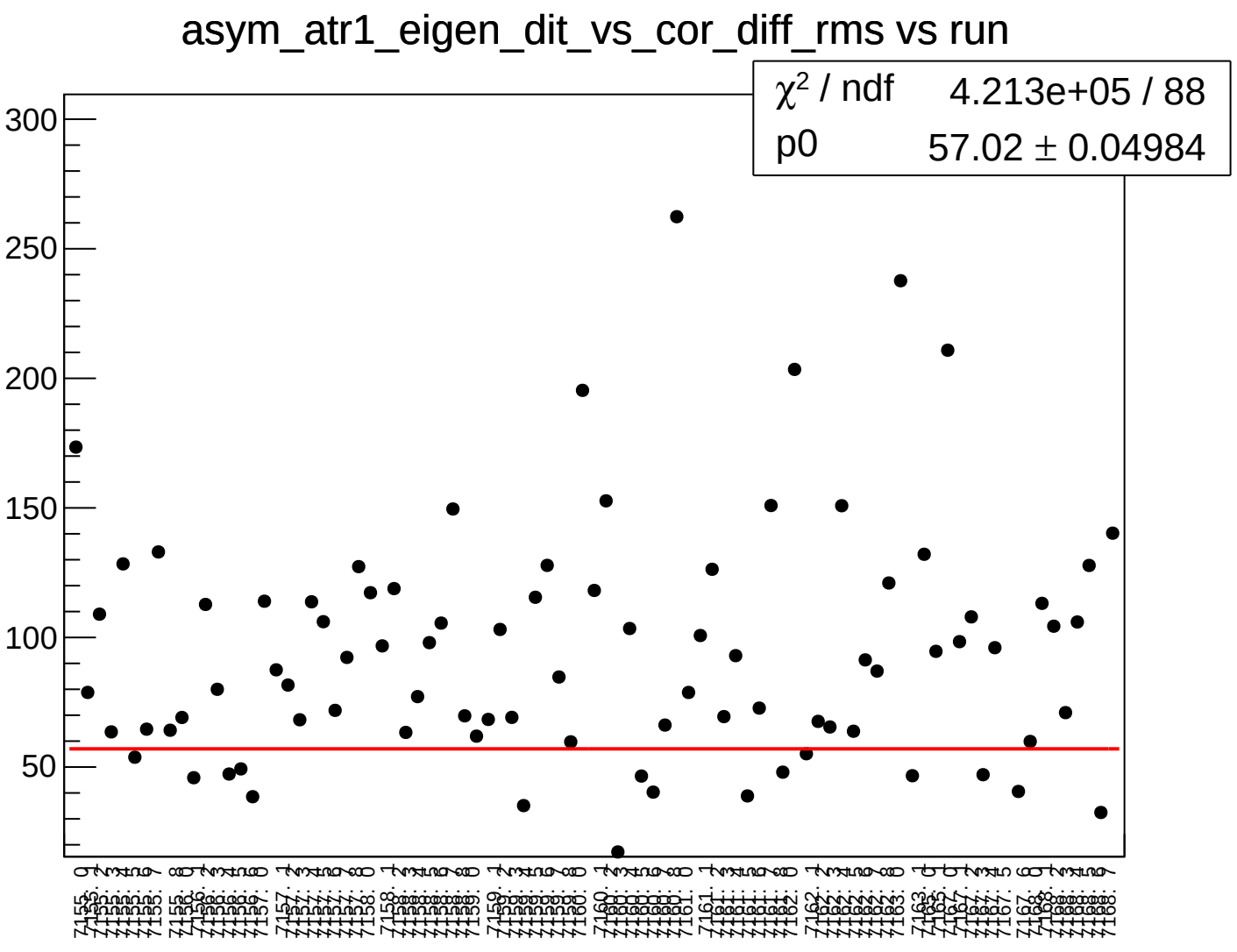

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.213e+05 / 88
p0 57.02 ± 0.04984
300
250
200
150
100
50

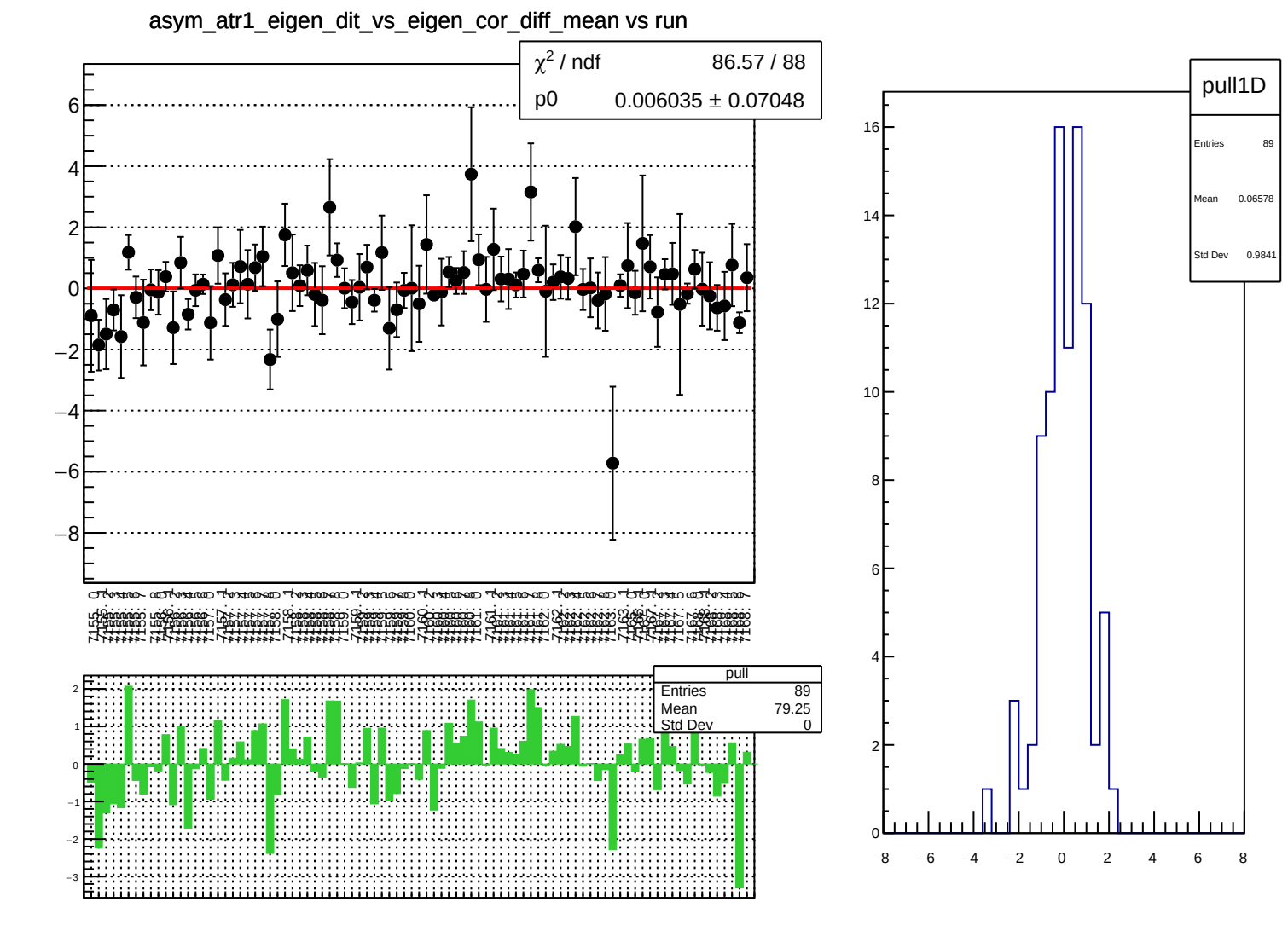

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.4 / 88
p0 4.233e−07 ± 2.189e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −51.88
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

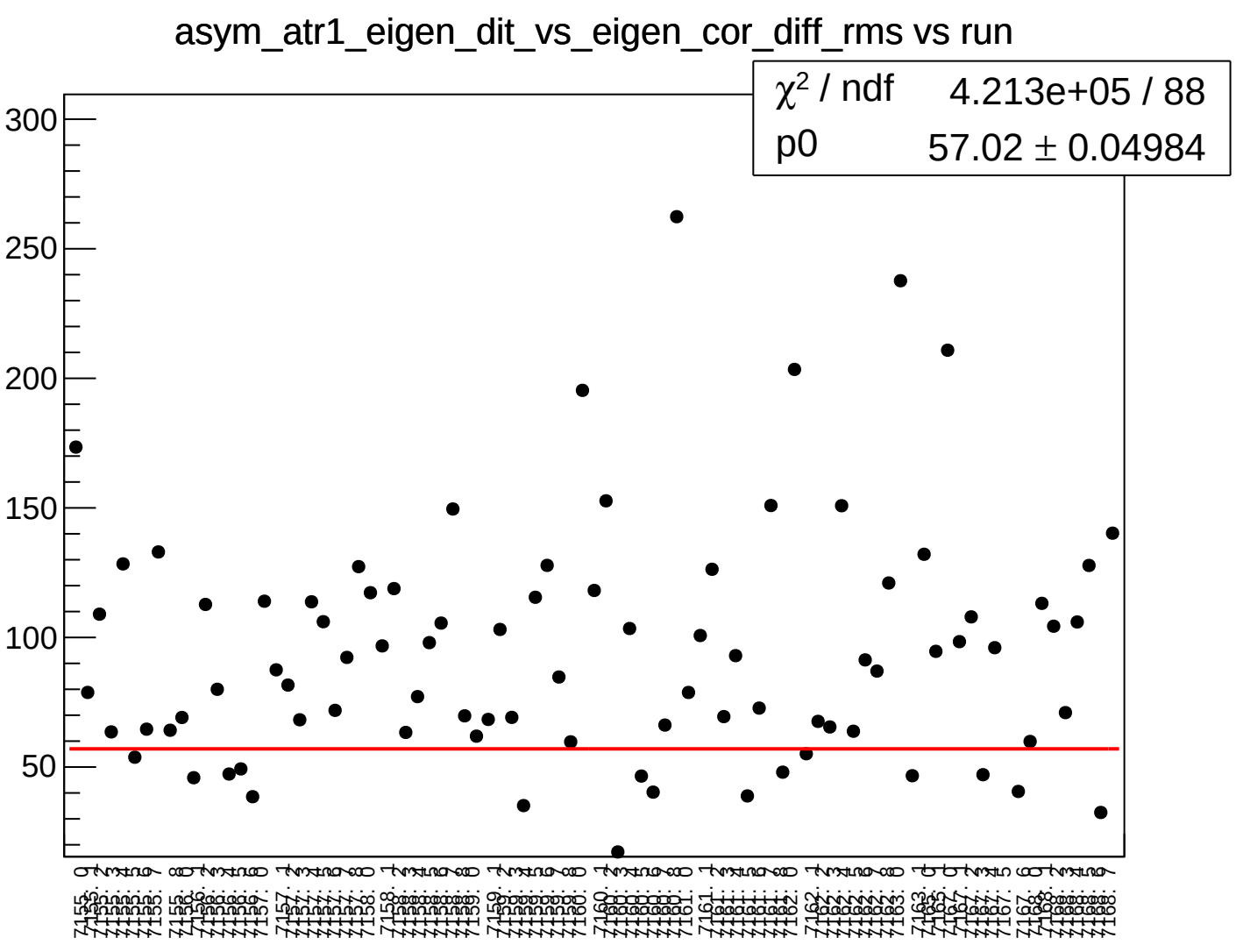

pull1D
Entries 89
Mean 0.02056
Std Dev 0.8892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

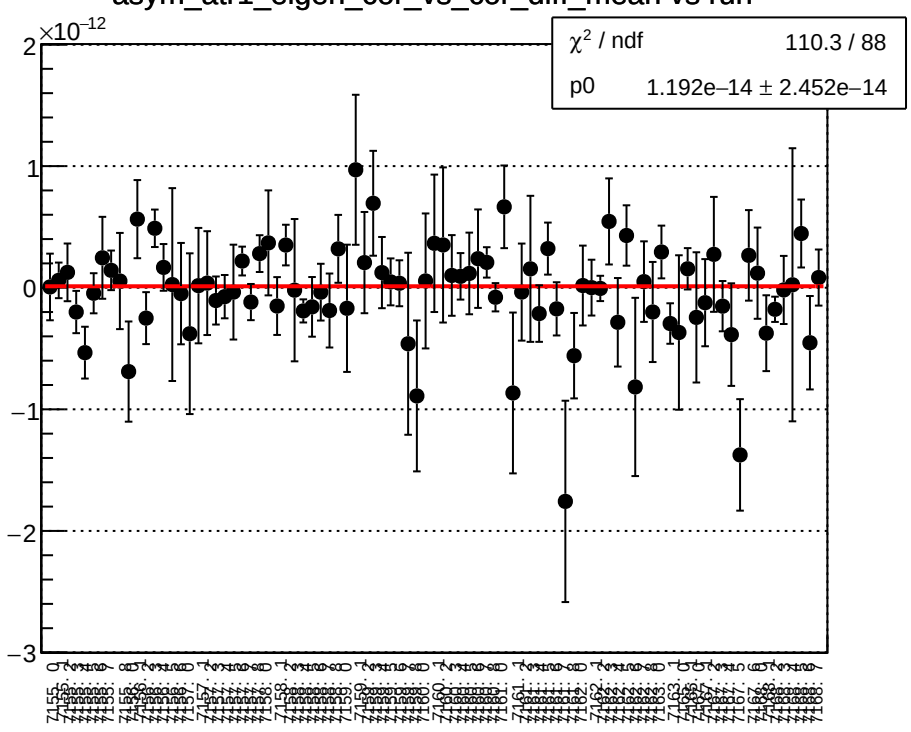

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.382e+04 / 88
p0 0.002028 ± 1.548e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

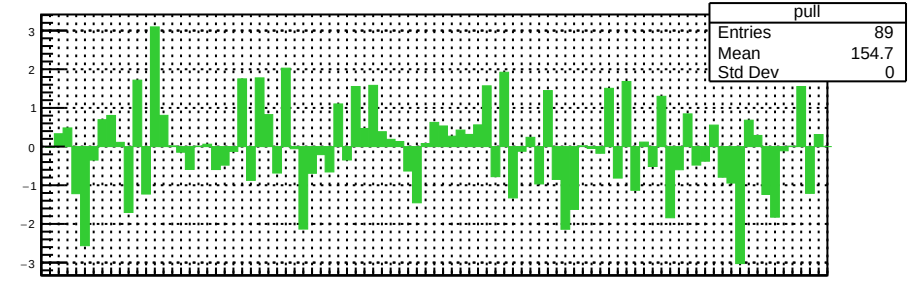

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.57 / 88
p0 0.006035 ± 0.07048
pull
Entries 89
Mean 79.25
Std Dev 0
pull1D
Entries 89
Mean 0.06578
Std Dev 0.9841

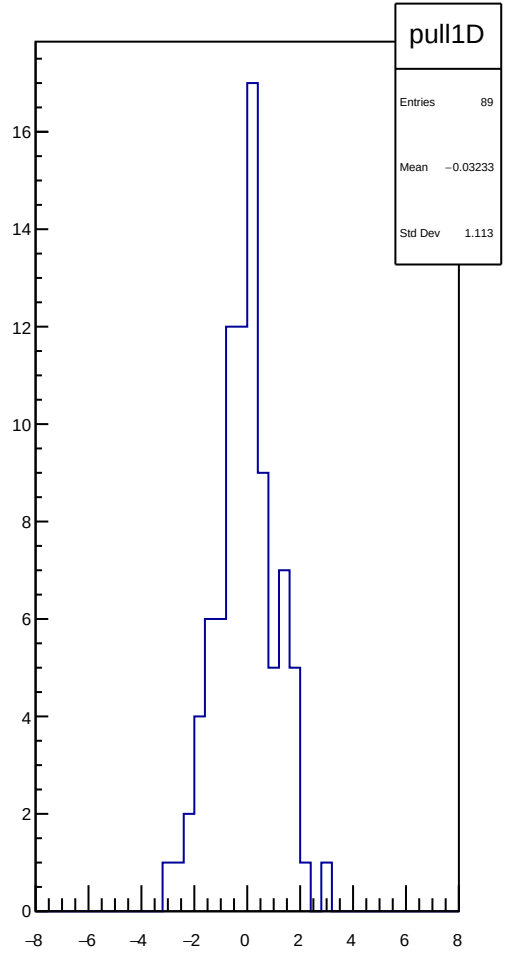

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.213e+05 / 88
p0 57.02 ± 0.04984
300
250
200
150
100
50

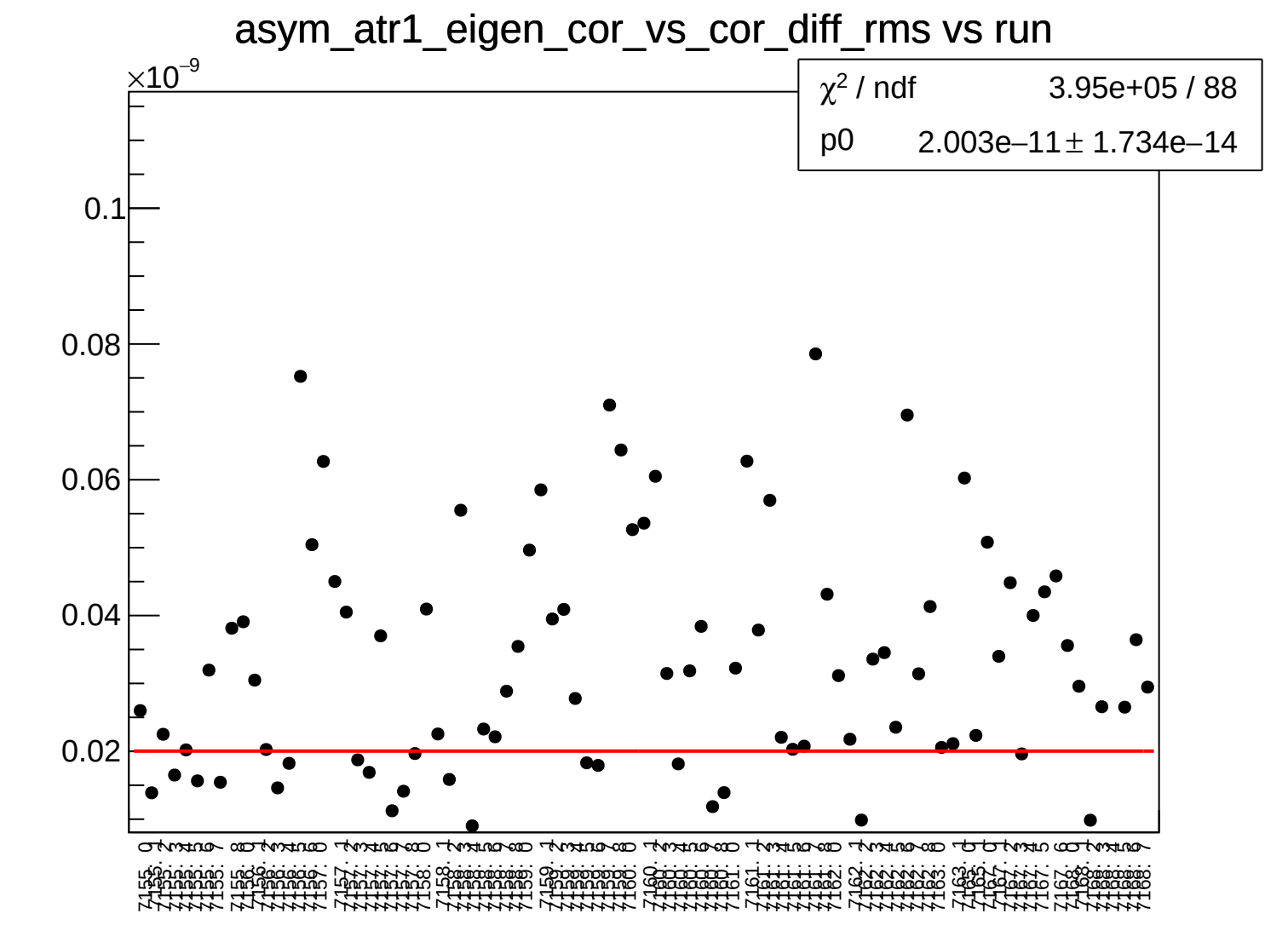

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.57 / 88
p0 0.006035 ± 0.07048
pull
Entries 89
Mean 79.25
Std Dev 0
pull1D
Entries 89
Mean 0.06578
Std Dev 0.9841

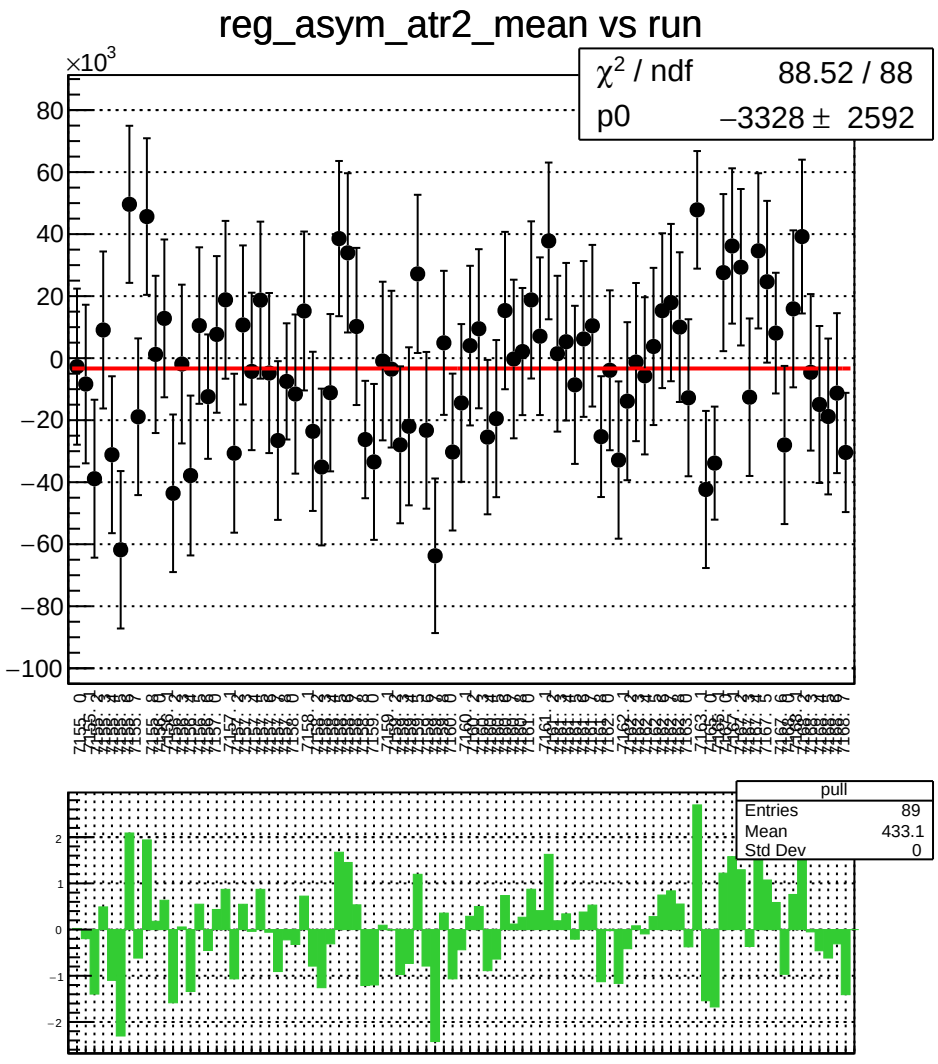

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.213e+05 / 88
p0 57.02 ± 0.04984
300
250
200
150
100
50

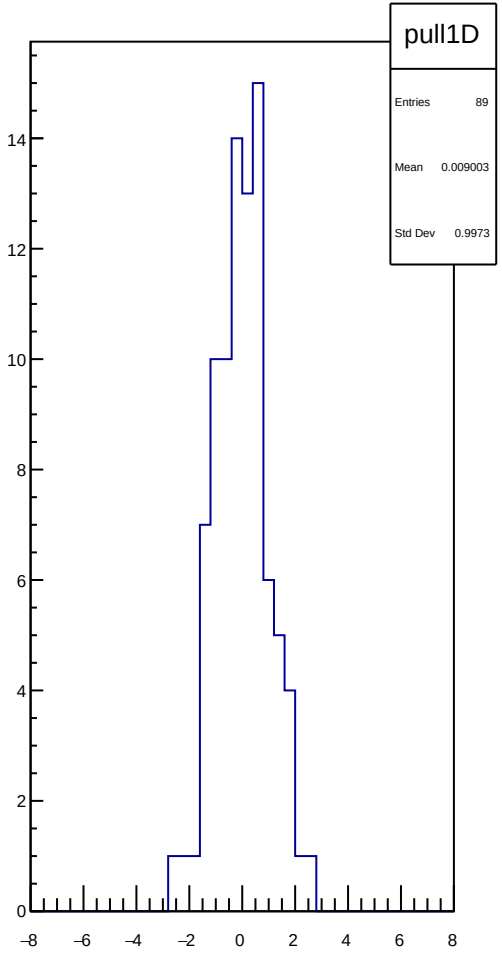

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 110.3 / 88
p0 1.192e−14 ± 2.452e−14

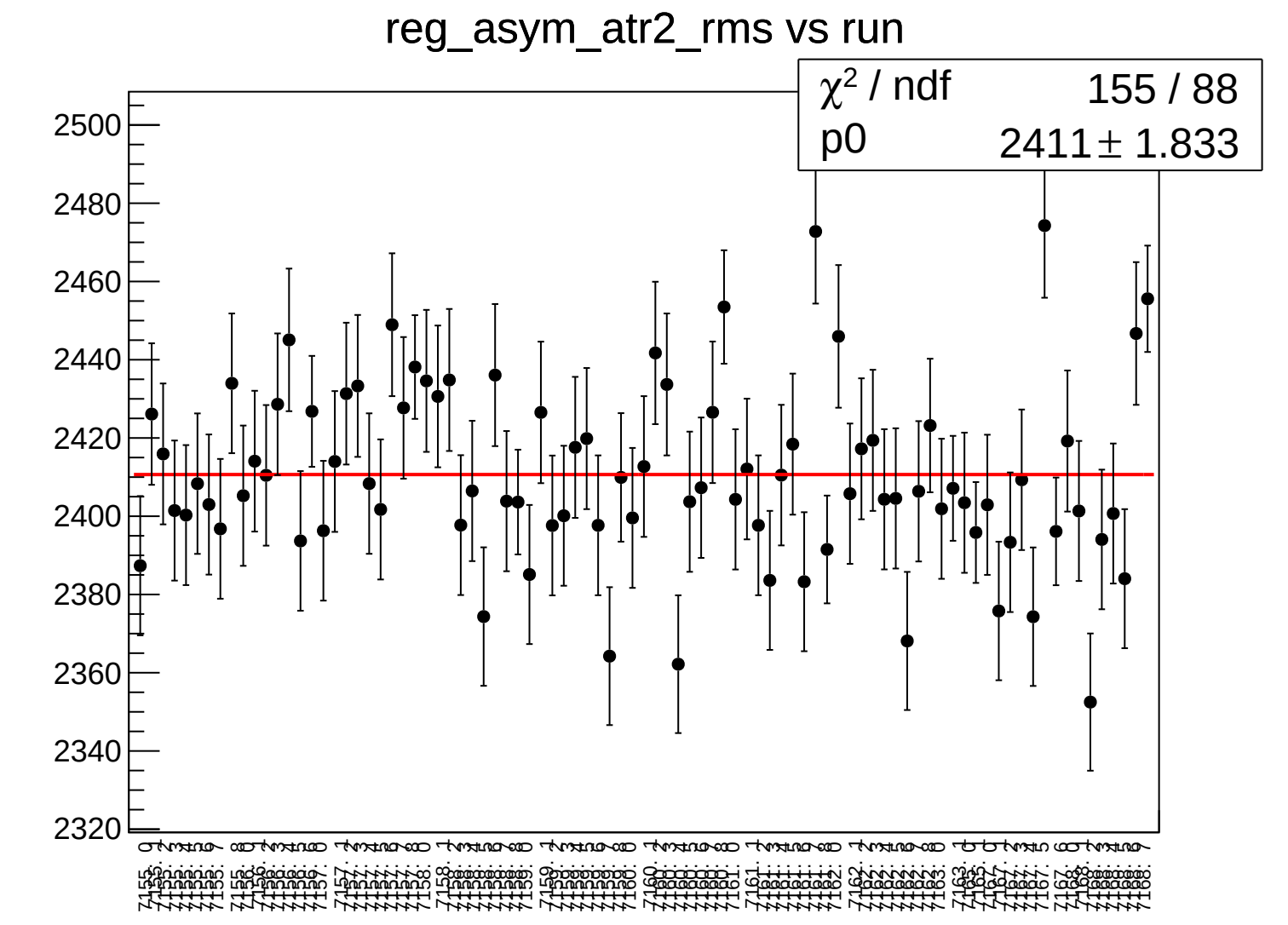

pull
Entries 89
Mean 154.7
Std Dev 0

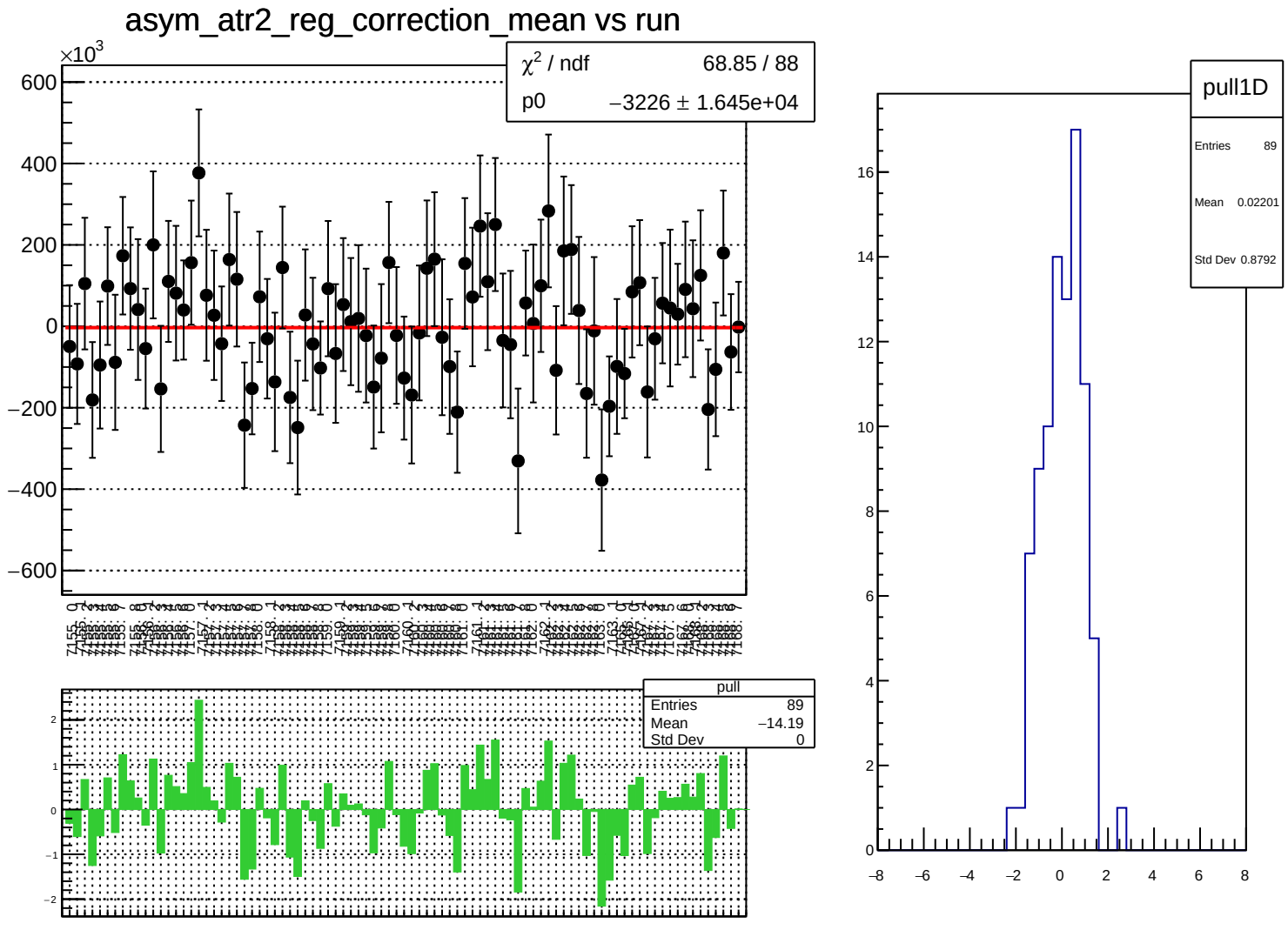

pull1D
Entries 89
Mean −0.03233
Std Dev 1.113

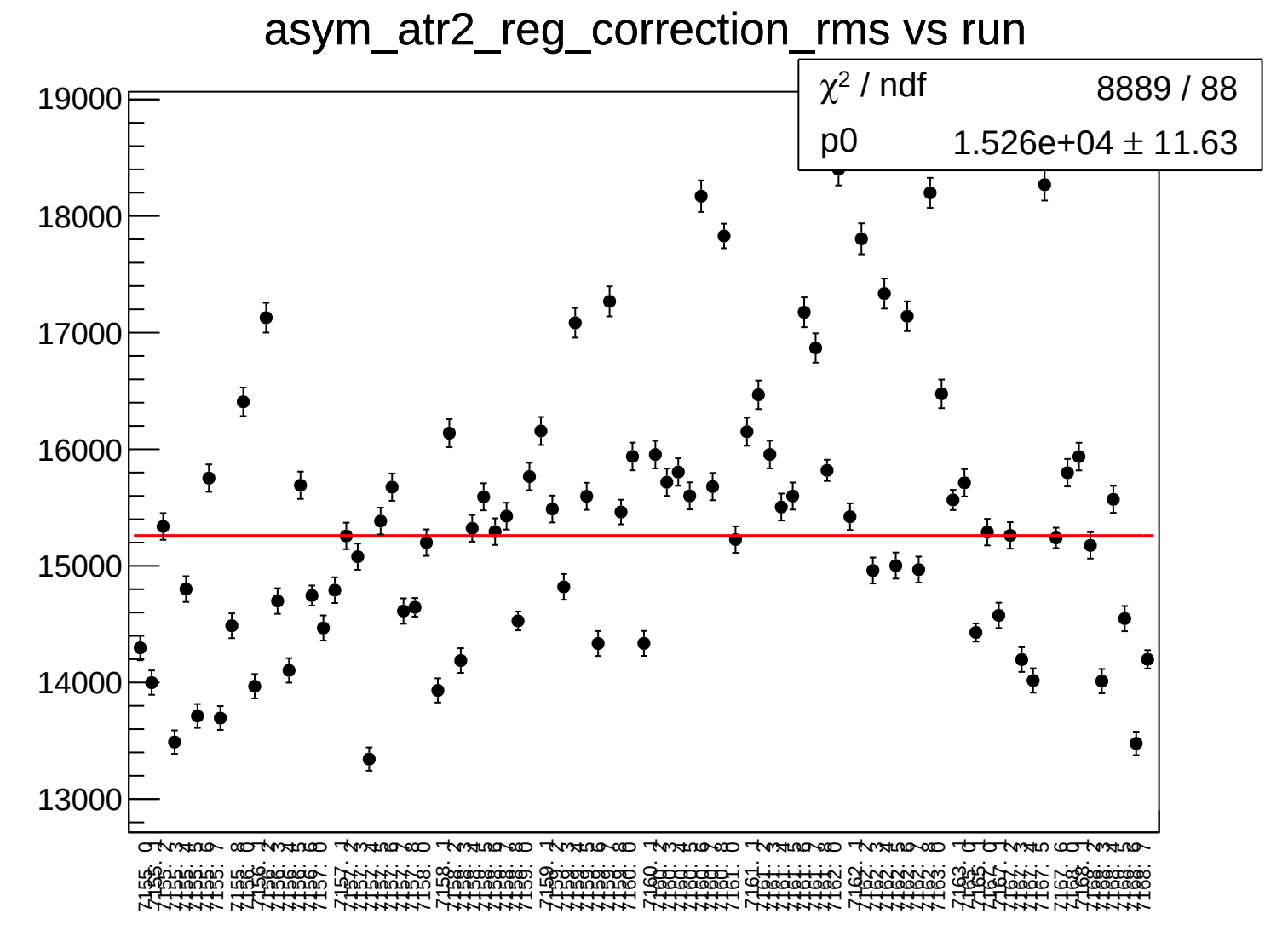

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.95e+05 / 88
p0 2.003e−11 ± 1.734e−14
0.1
0.08
0.06
0.04
0.02

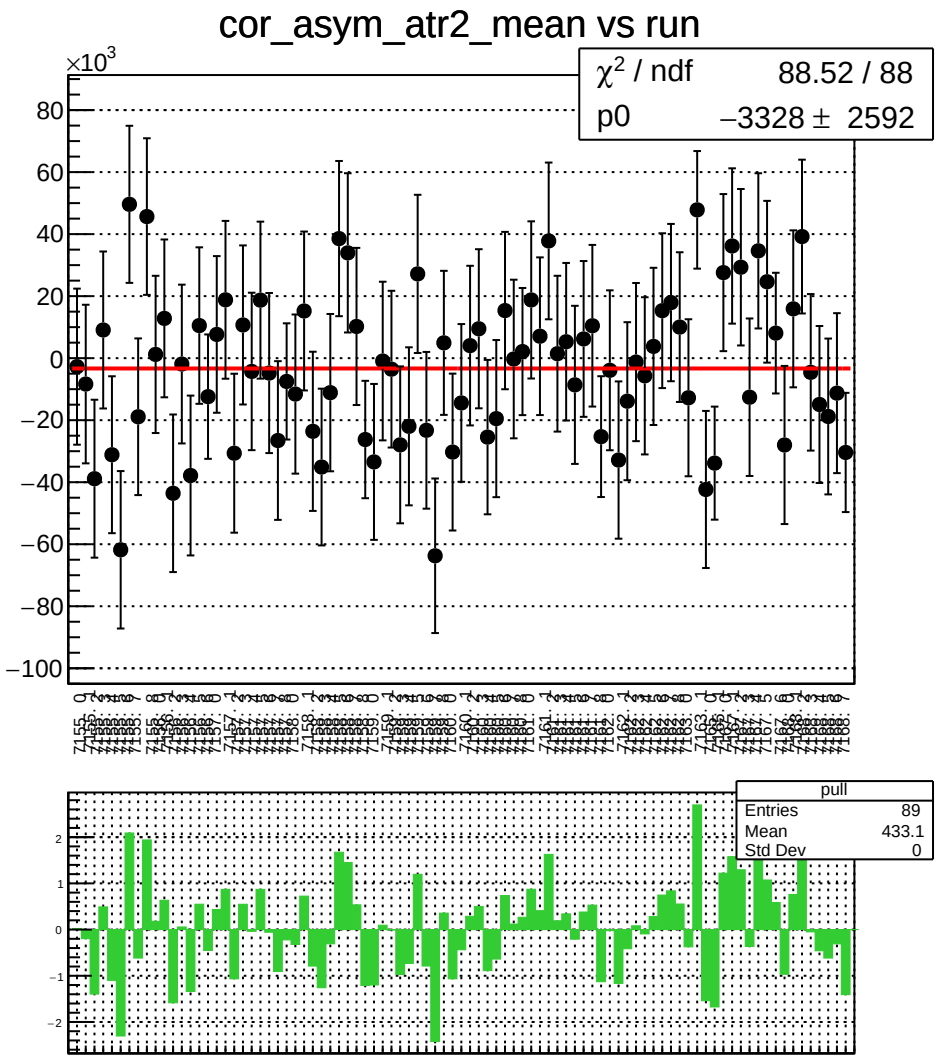

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 88.52 / 88
p0 −3328 ± 2592
pull
Entries 89
Mean 433.1
Std Dev 0

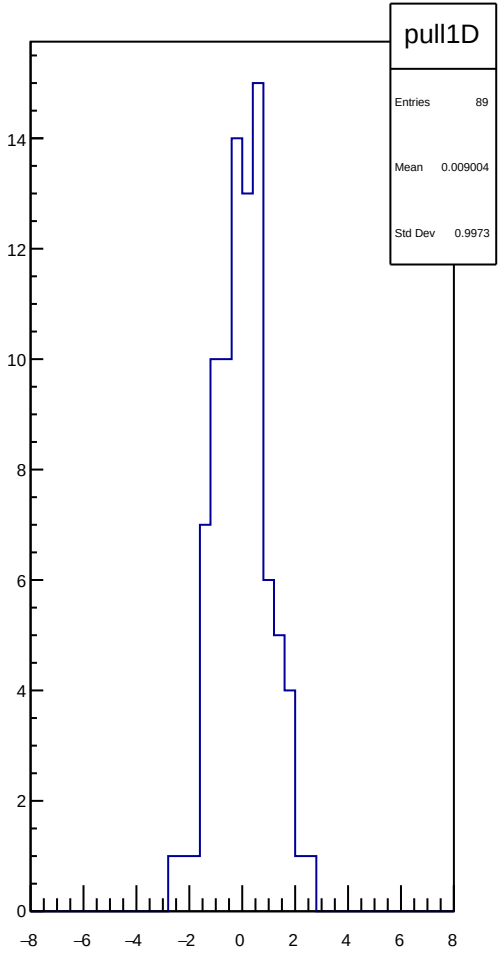

pull1D
Entries 89
Mean 0.009003
Std Dev 0.9973

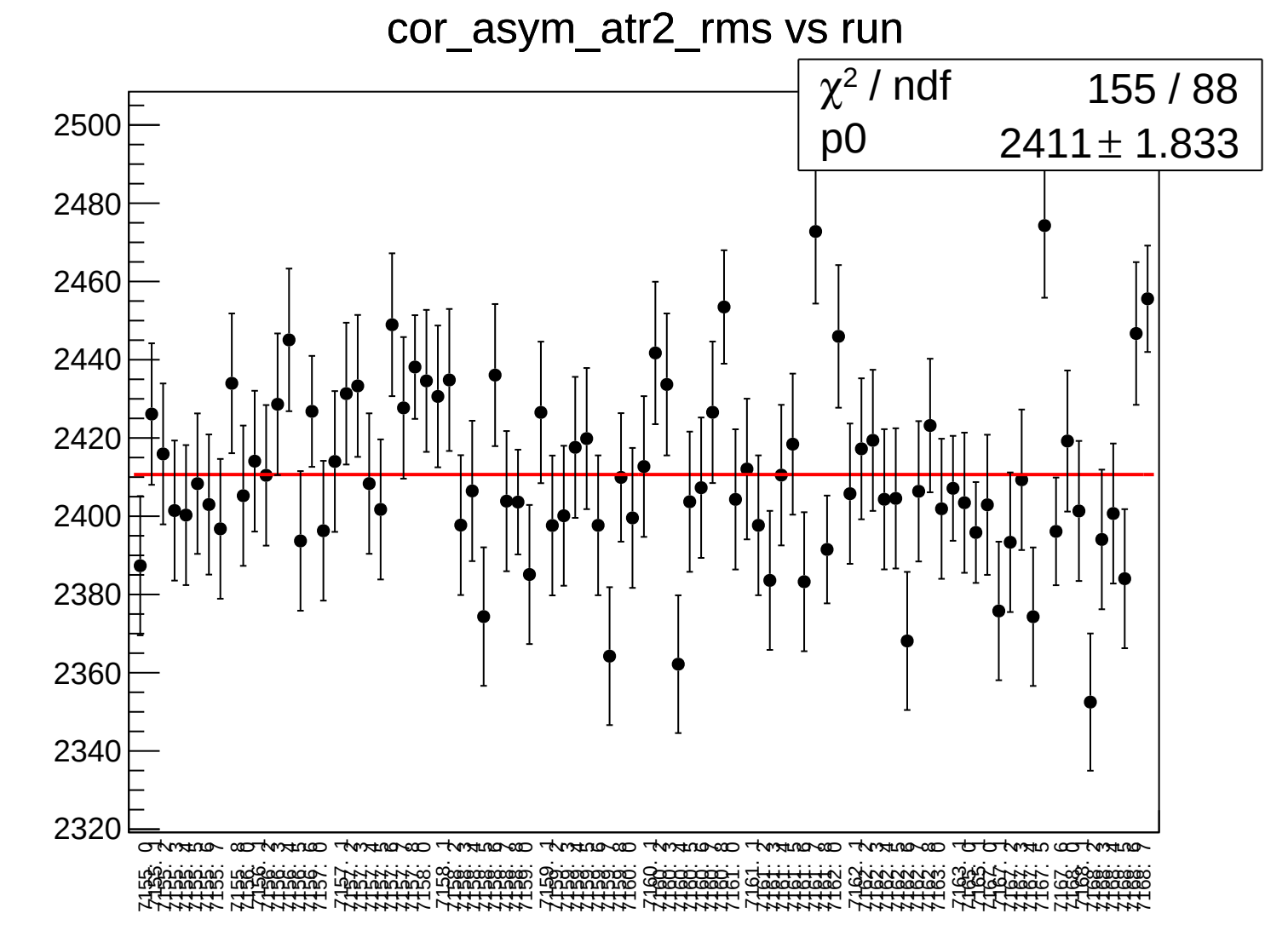

reg_asym_atr2_rms vs run
χ² / ndf 155 / 88
p0 2411 ± 1.833
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

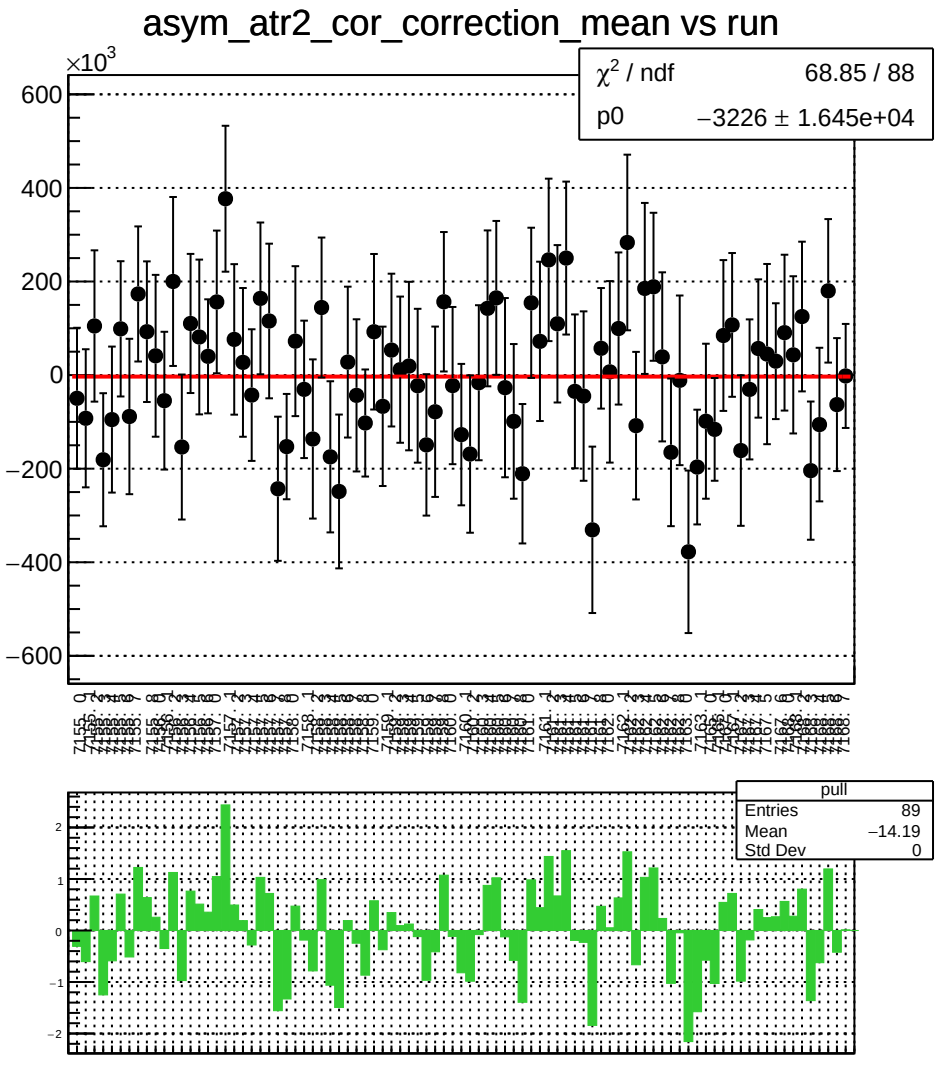

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 68.85 / 88
p0 −3226 ± 1.645e+04
pull
Entries 89
Mean −14.19
Std Dev 0
pull1D
Entries 89
Mean 0.02201
Std Dev 0.8792

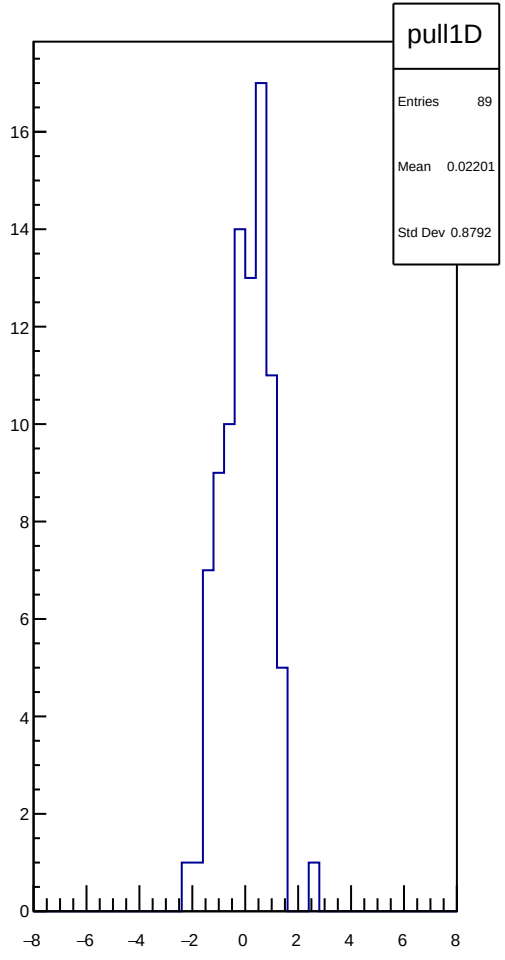

asym_atr2_reg_correction_rms vs run
χ² / ndf 8889 / 88
p0 1.526e+04 ± 11.63
19000
18000
17000
16000
15000
14000
13000

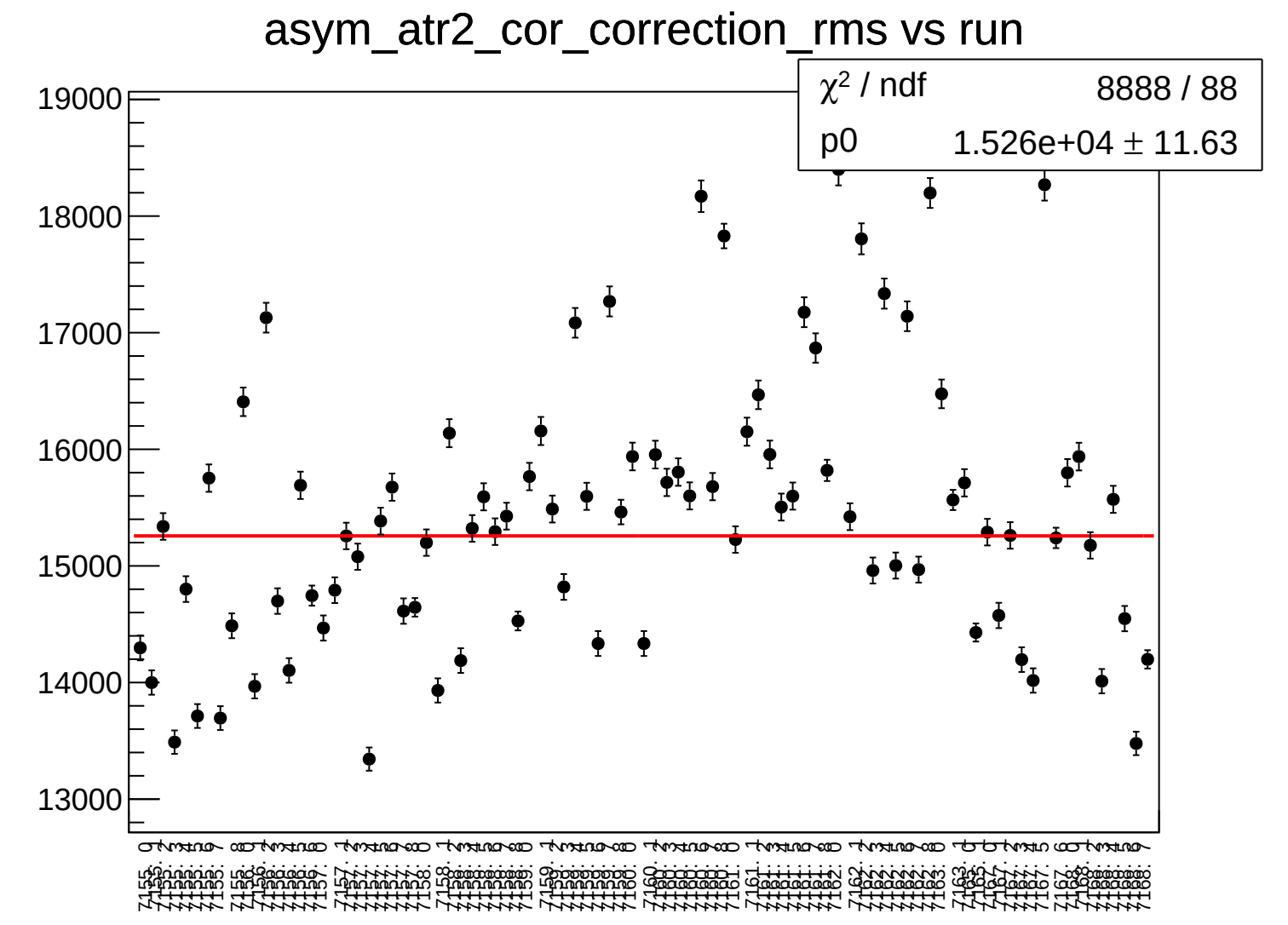

cor_asym_atr2_mean vs run
×10^3
χ² / ndf 88.52 / 88
p0 −3328 ± 2592
pull
Entries 89
Mean 433.1
Std Dev 0

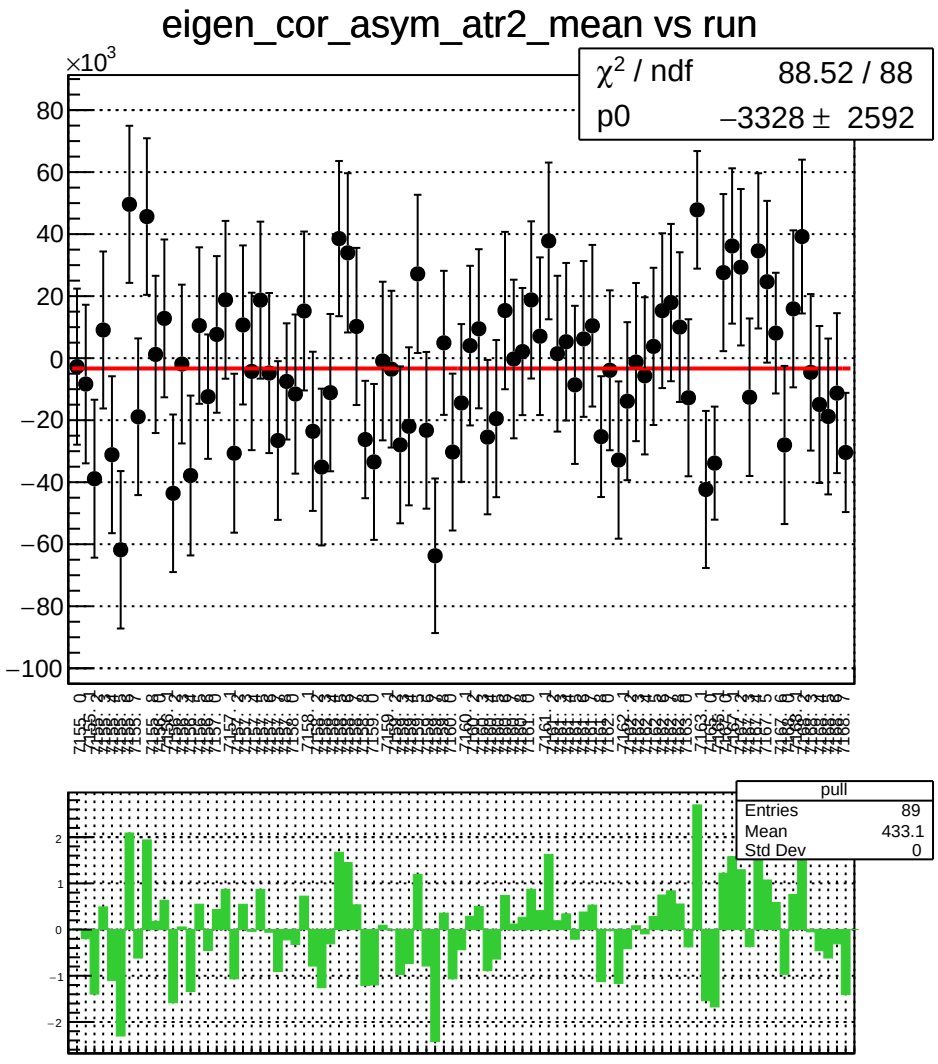

pull1D
Entries 89
Mean 0.009004
Std Dev 0.9973

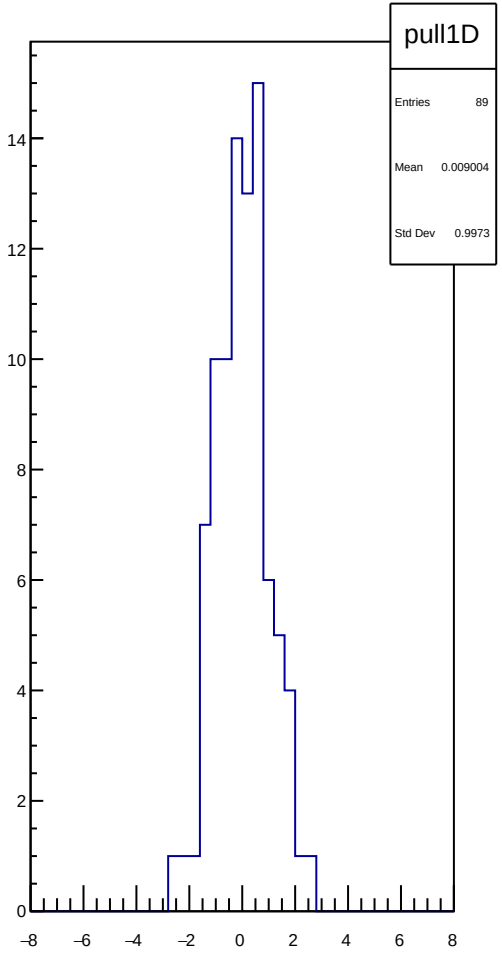

cor_asym_atr2_rms vs run
χ² / ndf 155 / 88
p0 2411 ± 1.833
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

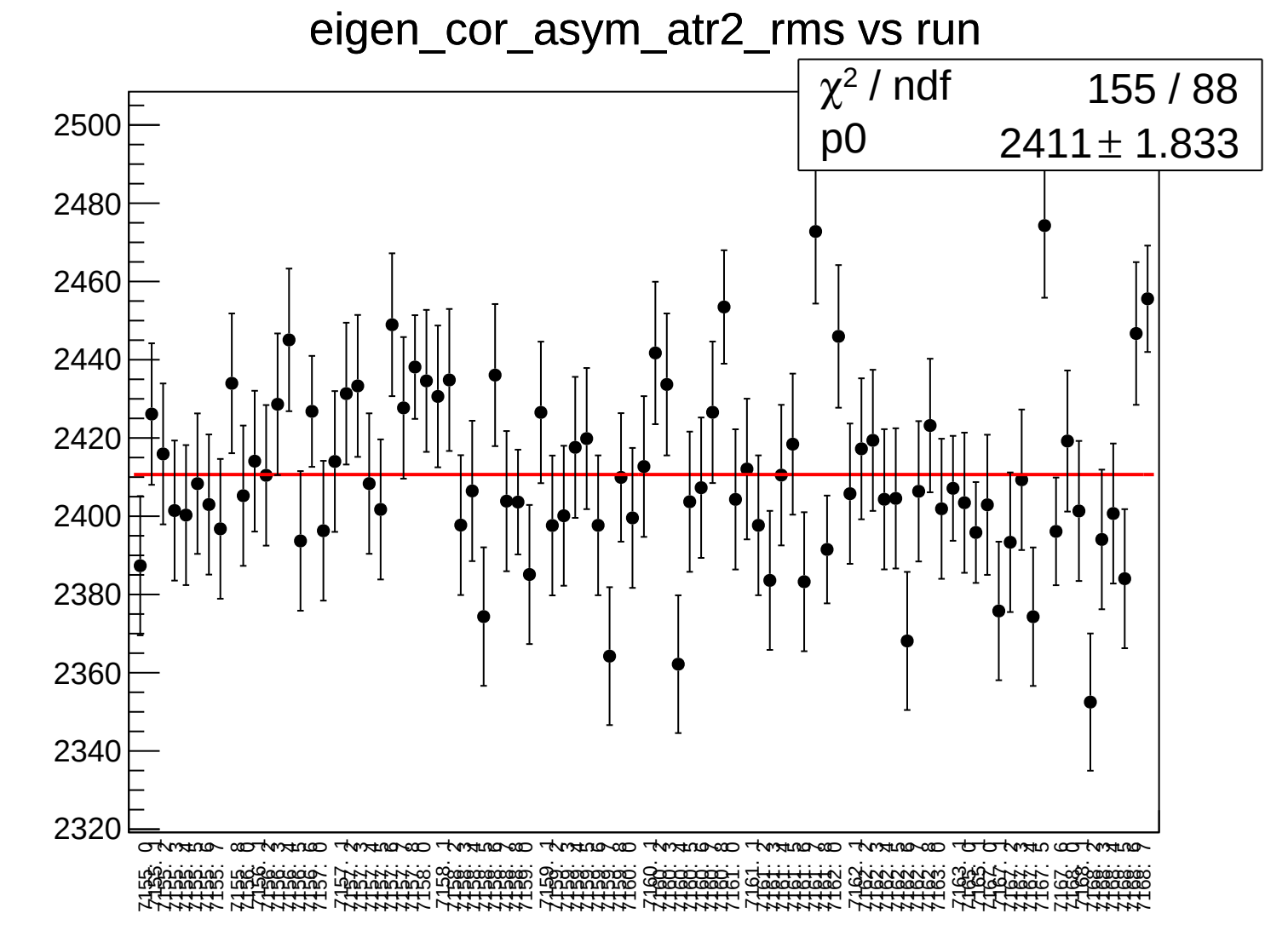

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 68.85 / 88
p0 −3226 ± 1.645e+04
pull
Entries 89
Mean −14.19
Std Dev 0

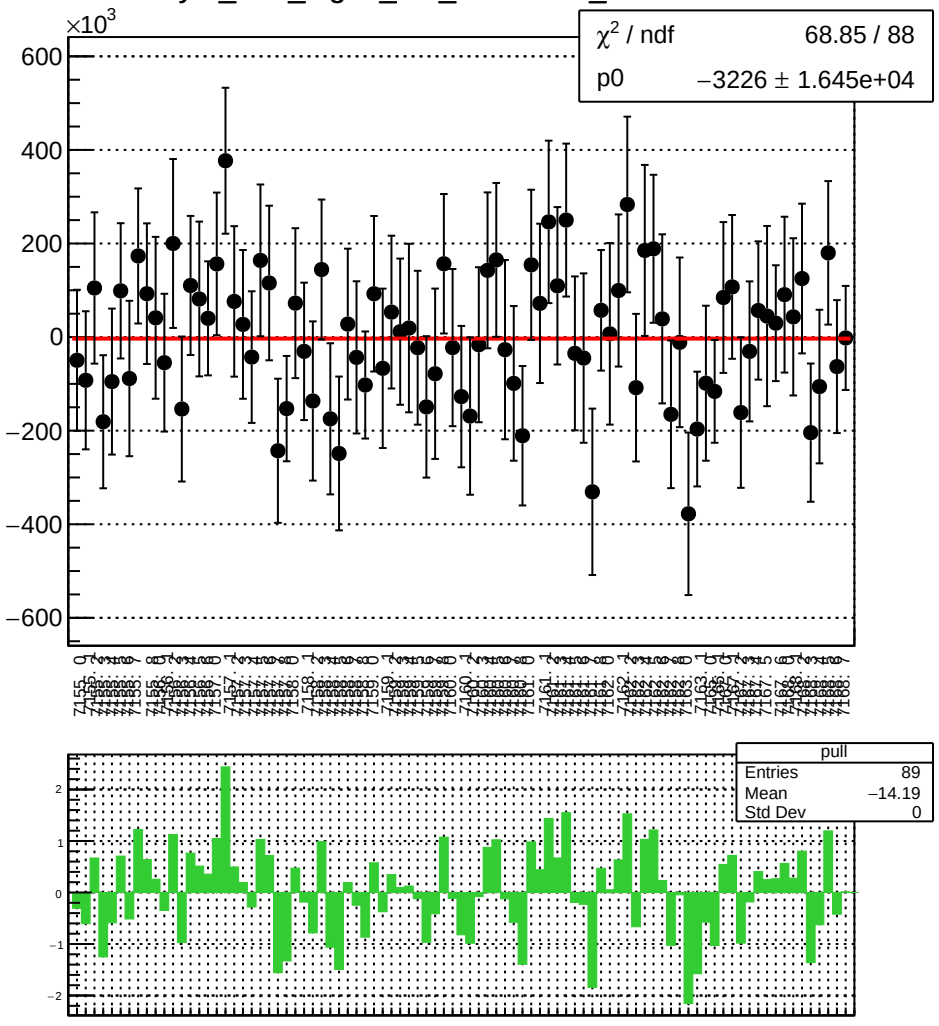

pull1D
Entries 89
Mean 0.02201
Std Dev 0.8792

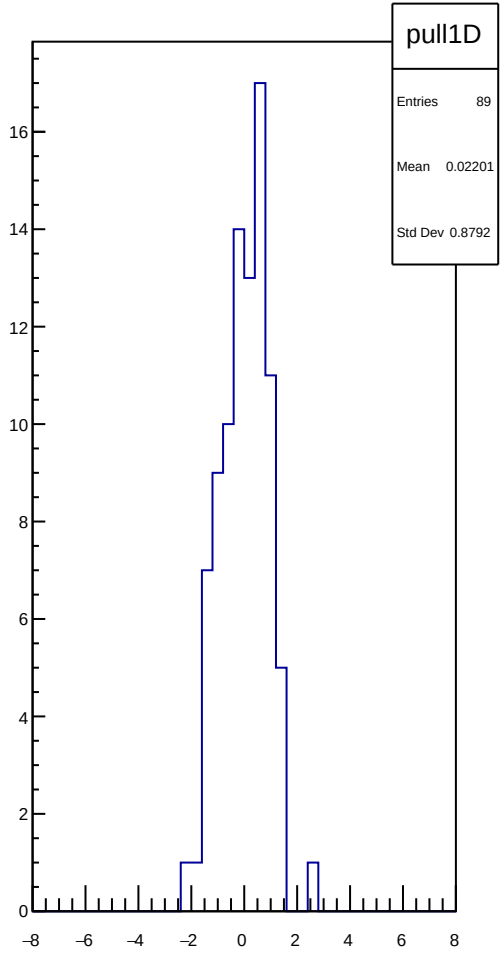

asym_atr2_cor_correction_rms vs run
χ² / ndf 8888 / 88
p0 1.526e+04 ± 11.63
19000
18000
17000
16000
15000
14000
13000

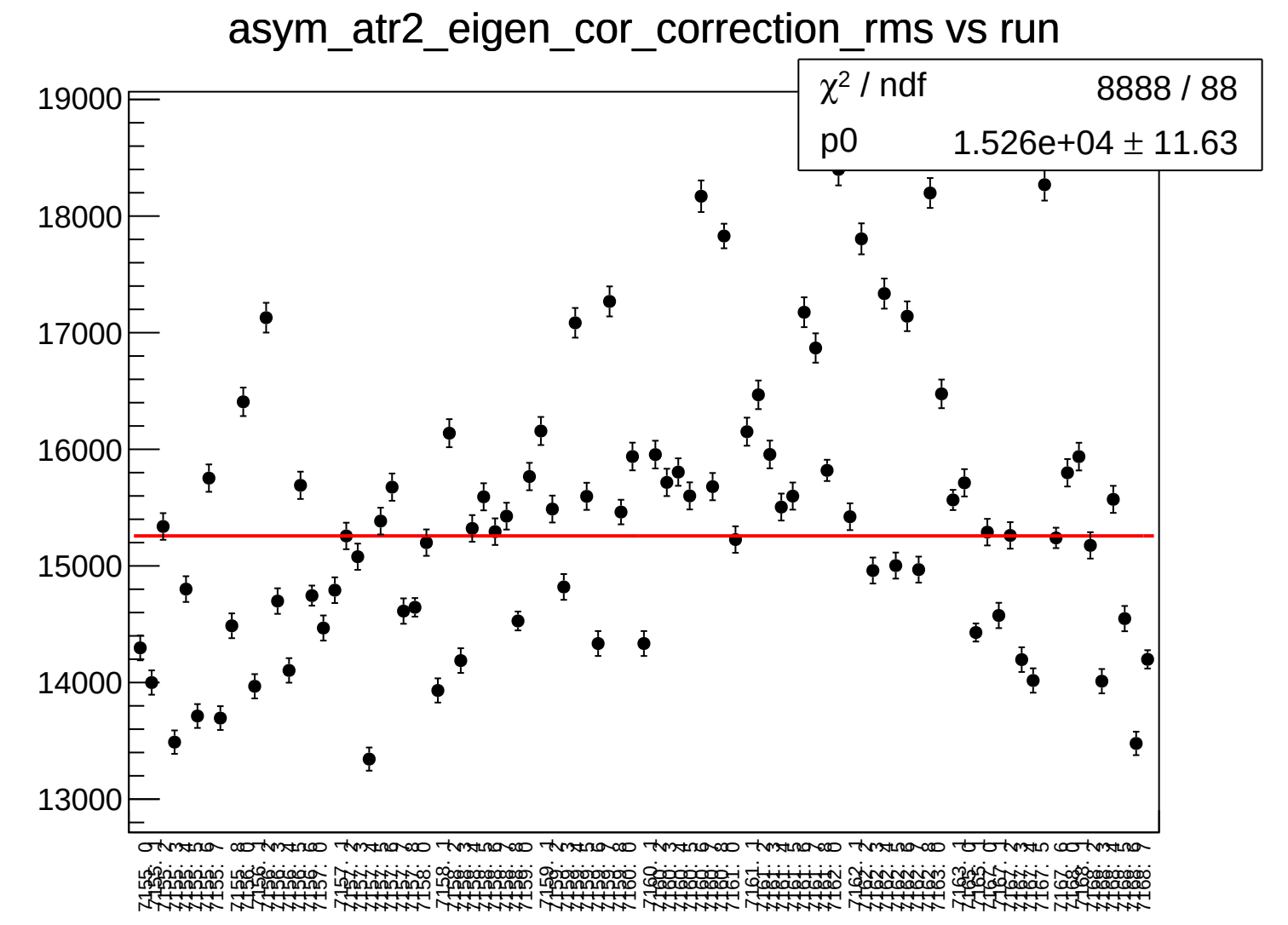

eigen_cor_asym_atr2_mean vs run
×10^3
χ² / ndf 88.52 / 88
p0 −3328 ± 2592
pull
Entries 89
Mean 433.1
Std Dev 0

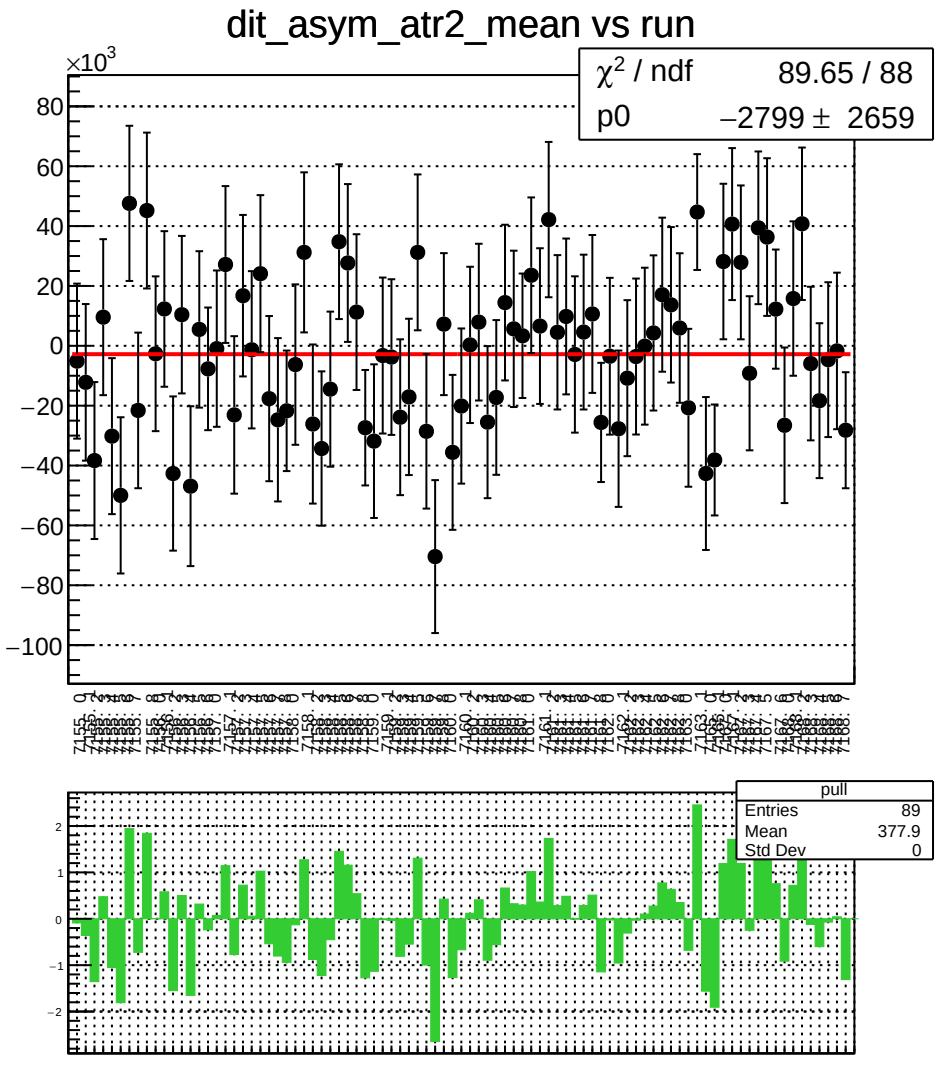

pull1D
Entries 89
Mean 0.009004
Std Dev 0.9973

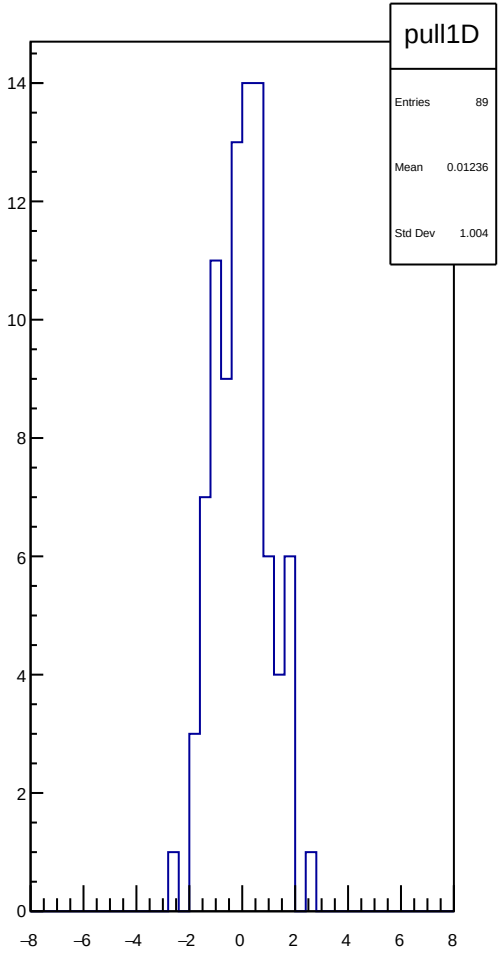

eigen_cor_asym_atr2_rms vs run
χ² / ndf 155 / 88
p0 2411 ± 1.833
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

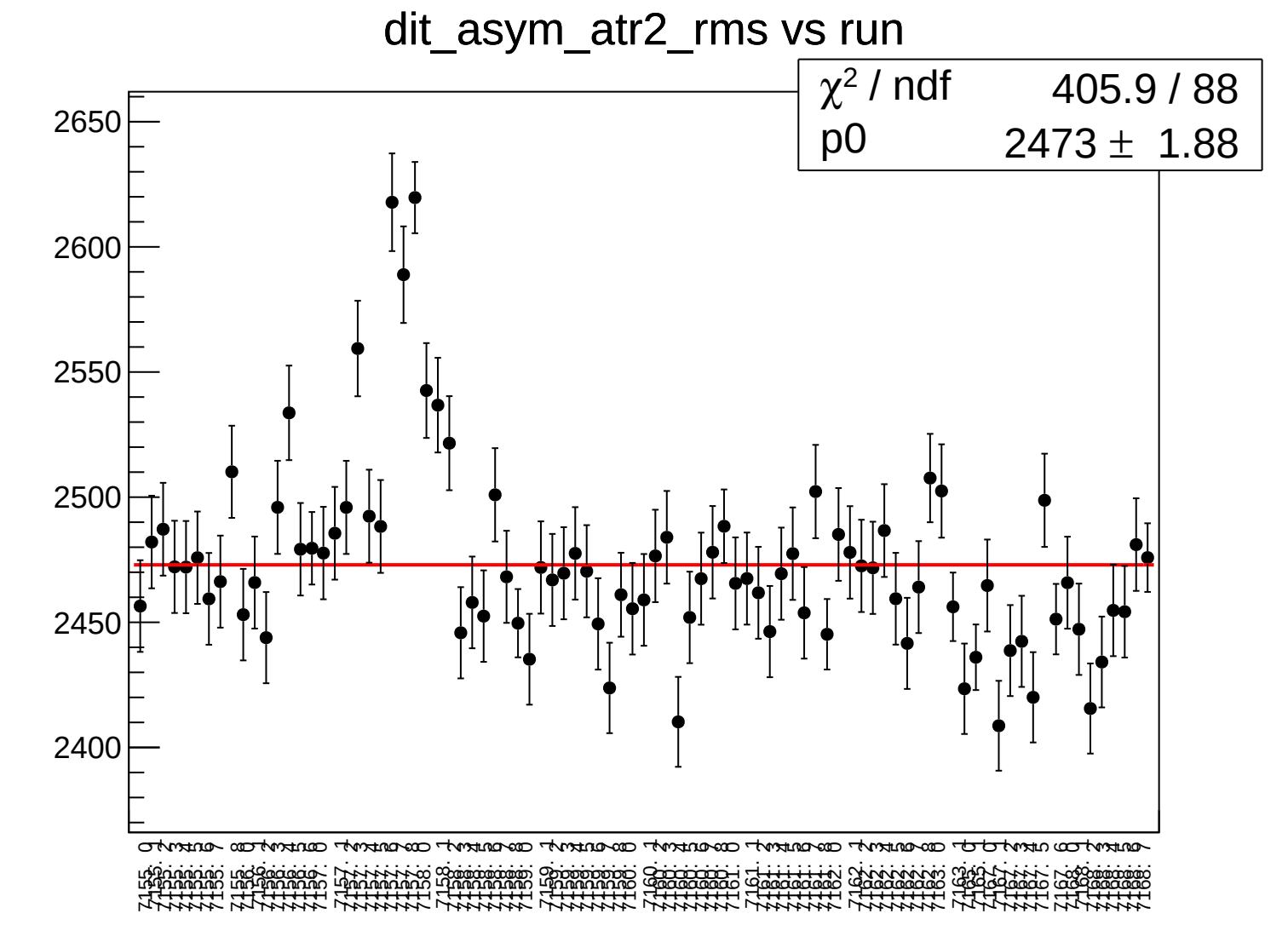

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.85 / 88
p0 −3226 ± 1.645e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −14.19
Std Dev 0
2
1
0
−1
−2

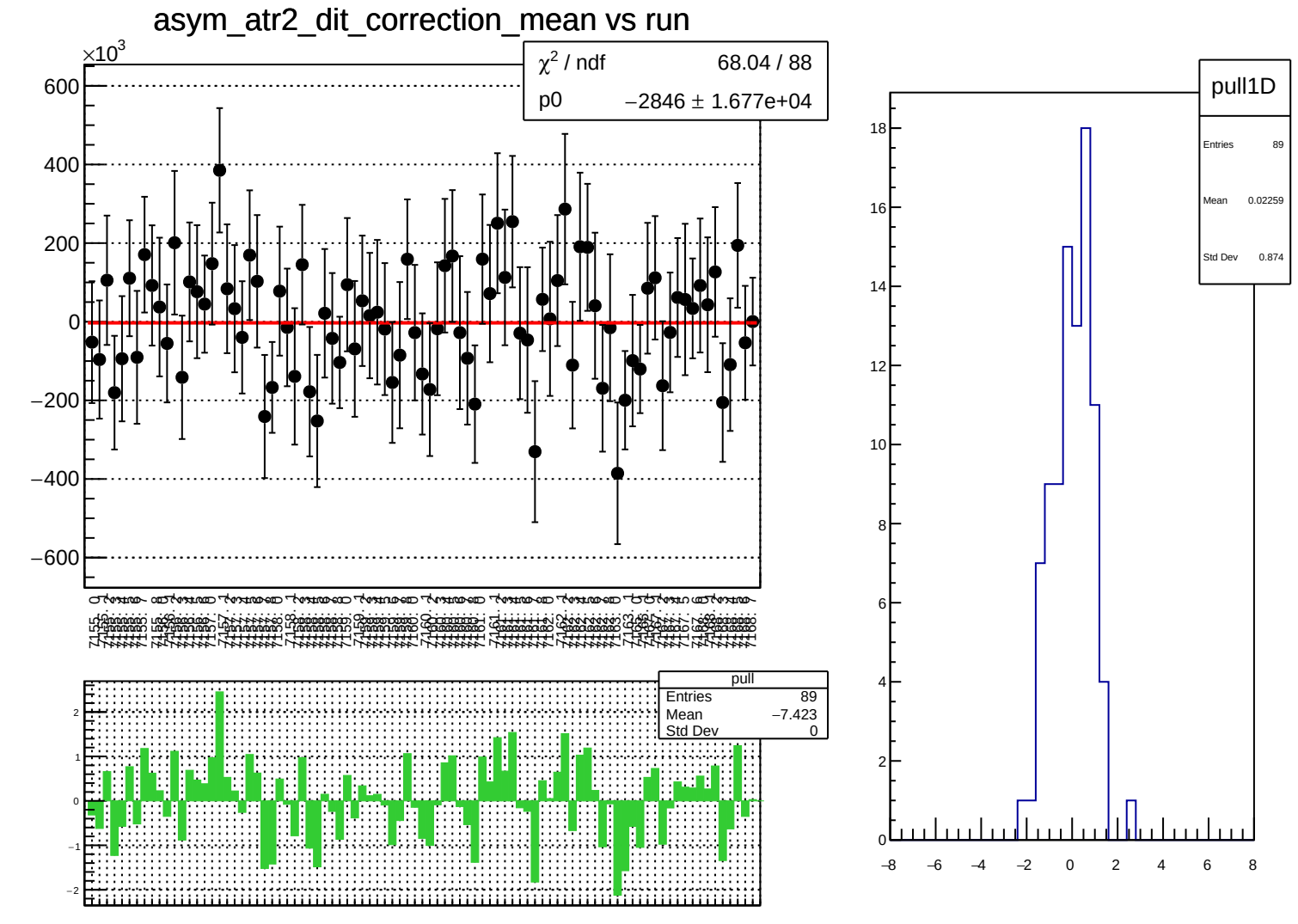

pull1D
Entries 89
Mean 0.02201
Std Dev 0.8792
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

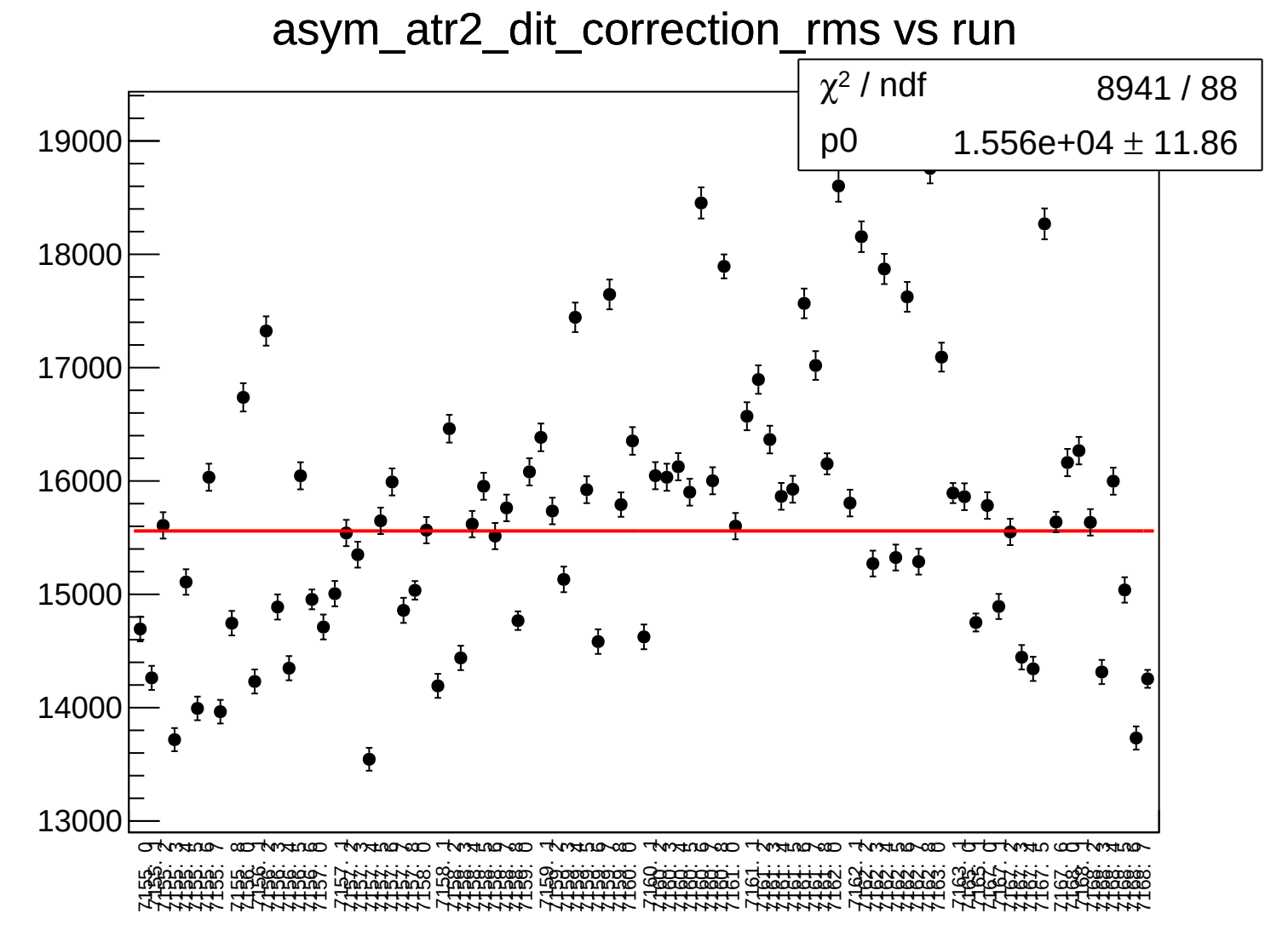

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 8888 / 88
p0 1.526e+04 ± 11.63
19000
18000
17000
16000
15000
14000
13000

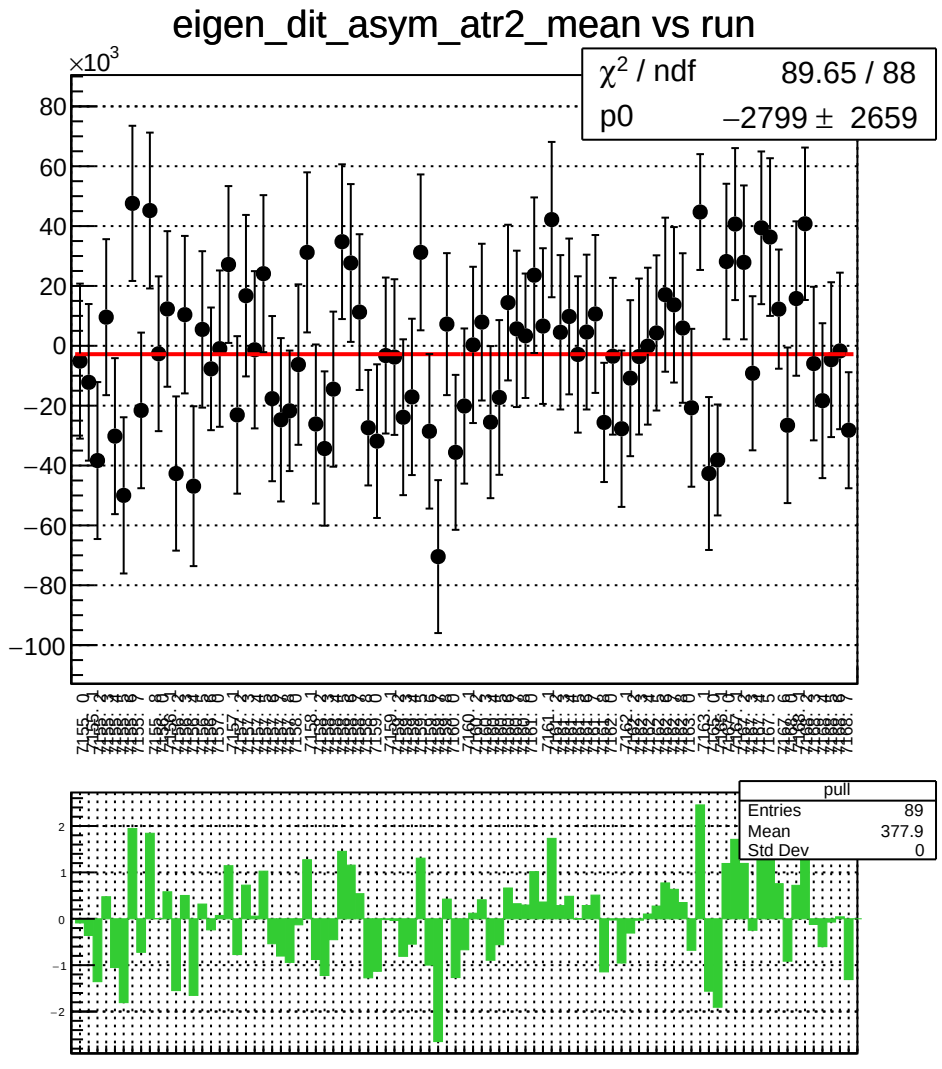

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 89.65 / 88
p0 −2799 ± 2659
pull
Entries 89
Mean 377.9
Std Dev 0

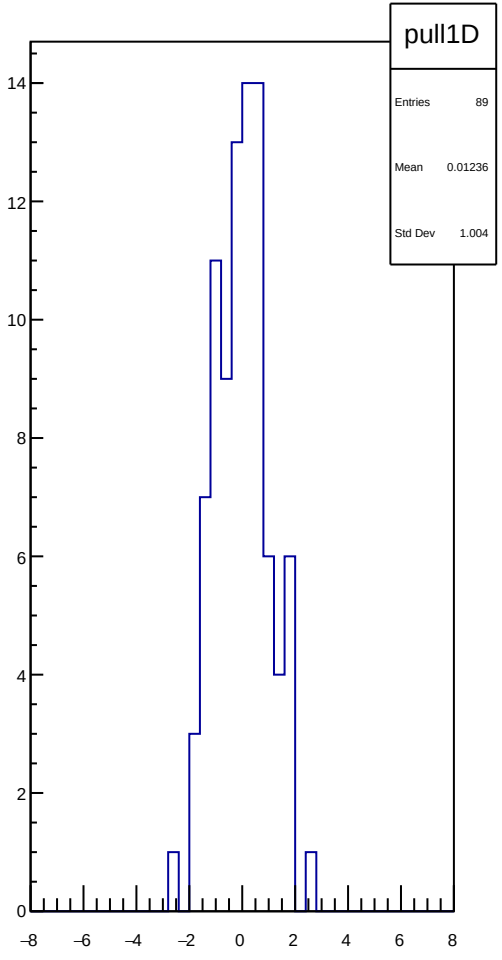

pull1D
Entries 89
Mean 0.01236
Std Dev 1.004

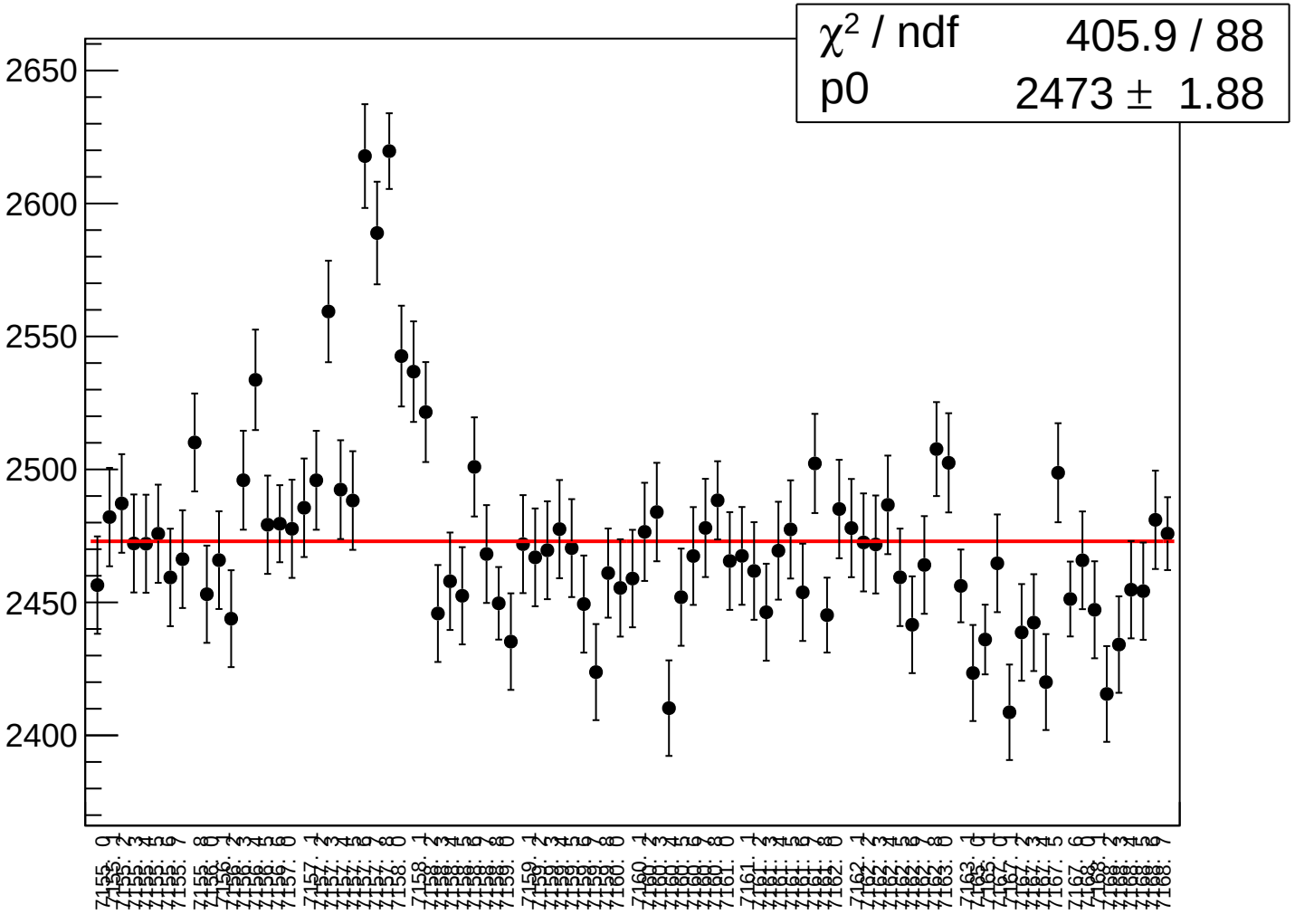

dit_asym_atr2_rms vs run
χ² / ndf 405.9 / 88
p0 2473 ± 1.88
2650
2600
2550
2500
2450
2400

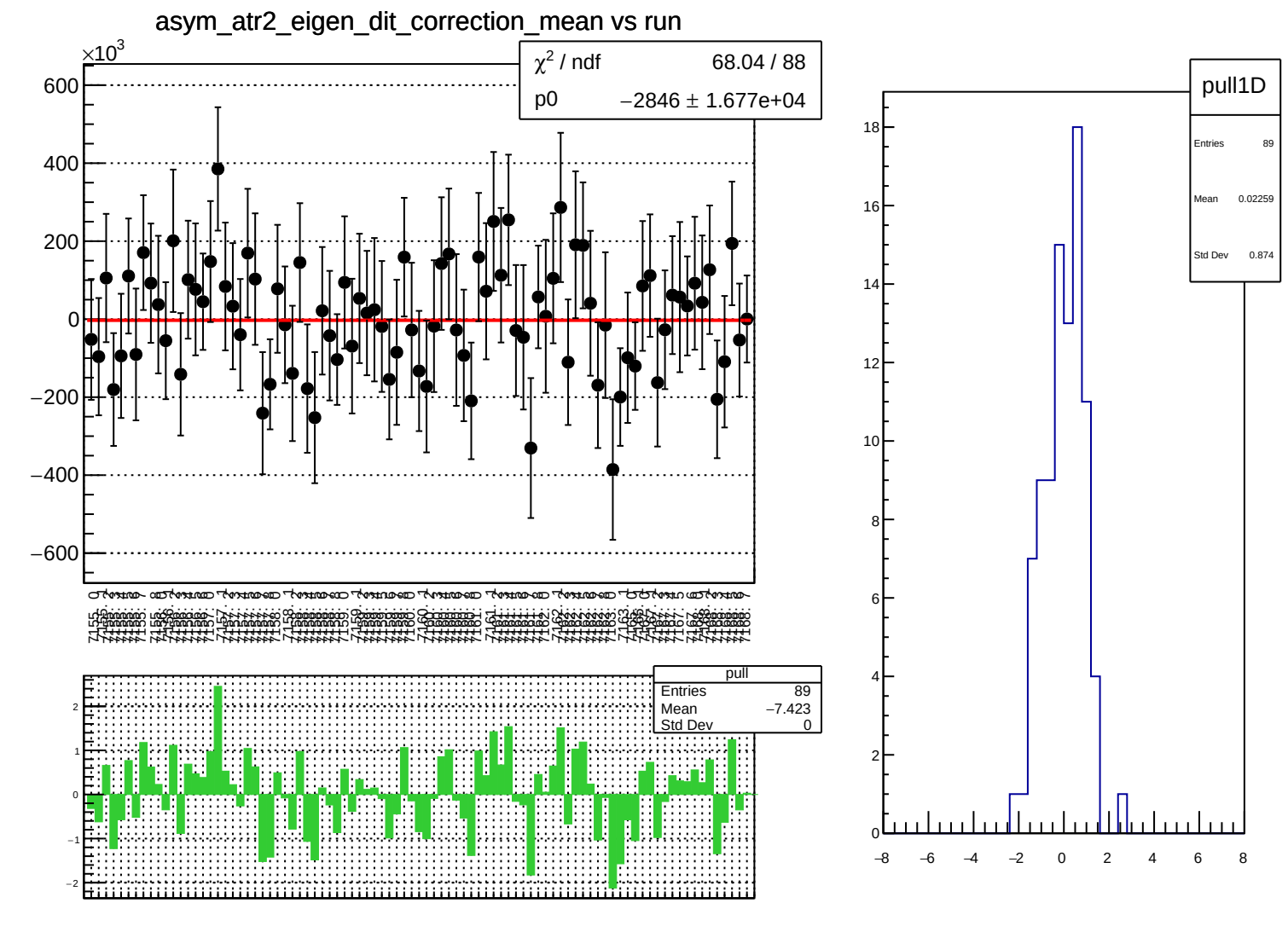

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 68.04 / 88
p0 −2846 ± 1.677e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −7.423
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02259
Std Dev 0.874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

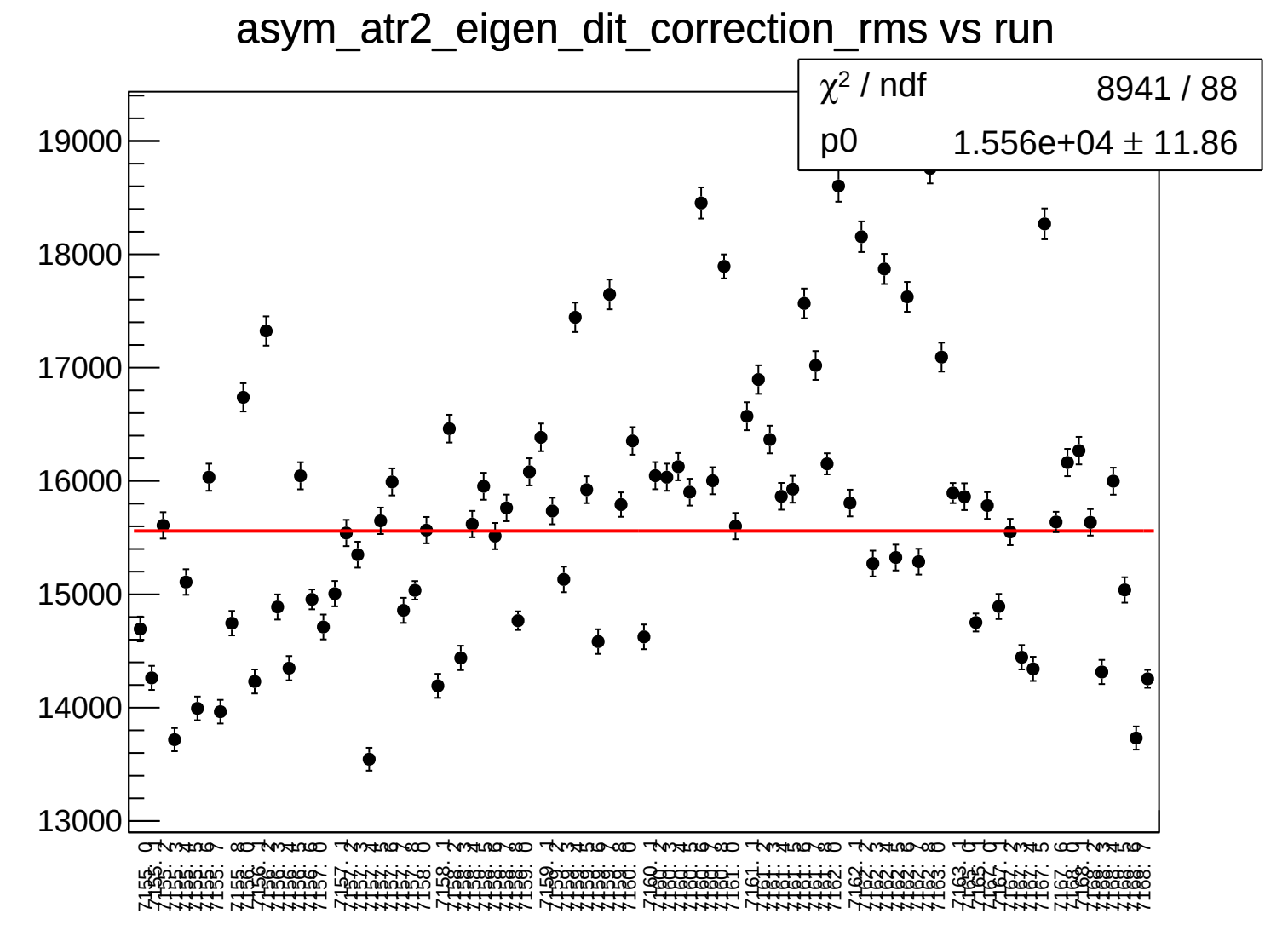

asym_atr2_dit_correction_rms vs run
χ² / ndf 8941 / 88
p0 1.556e+04 ± 11.86
19000
18000
17000
16000
15000
14000
13000

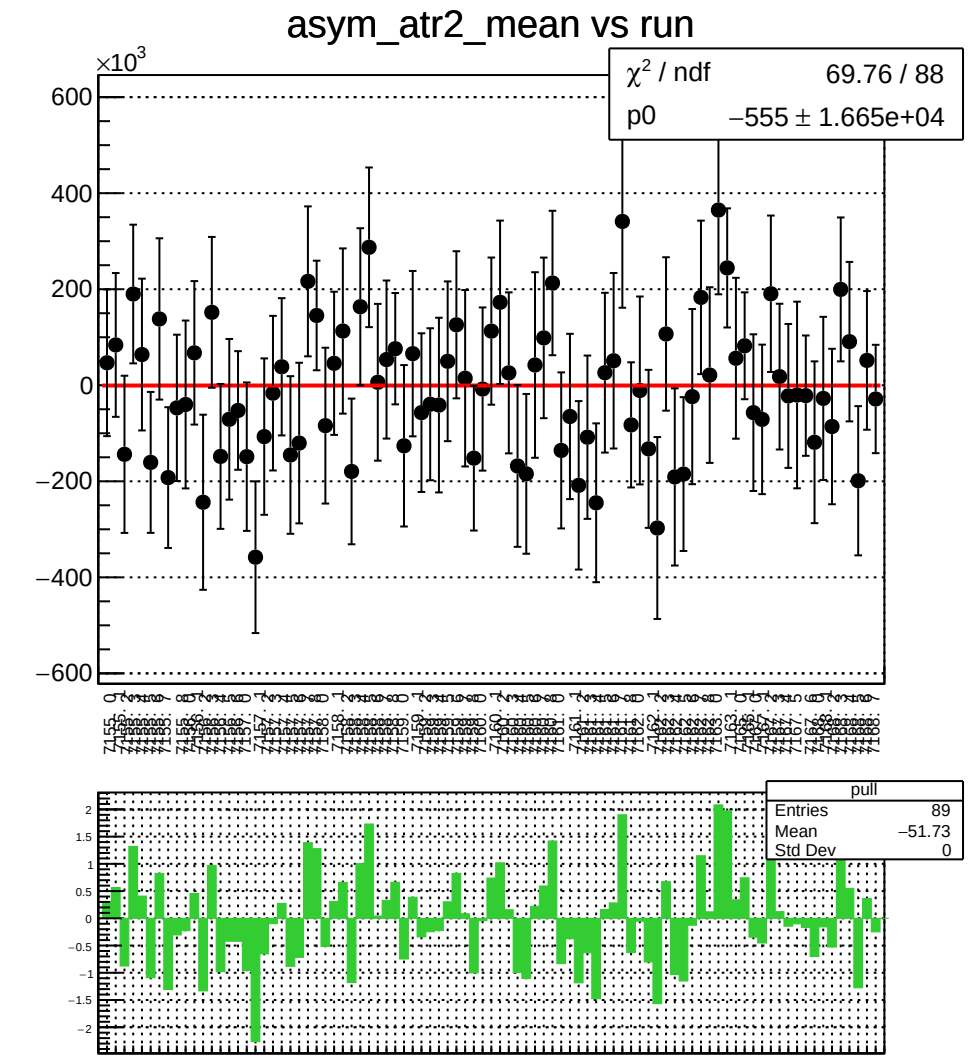

eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 89.65 / 88
p0 −2799 ± 2659
pull
Entries 89
Mean 377.9
Std Dev 0

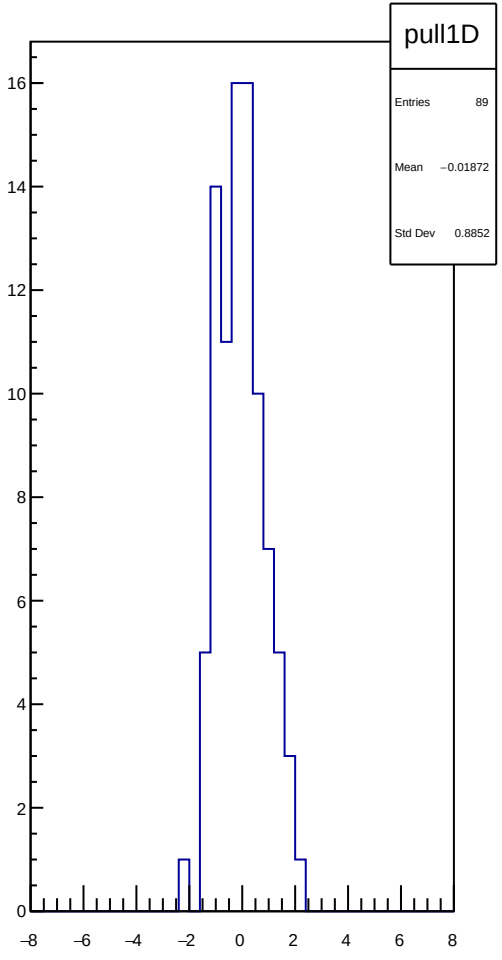

pull1D
Entries 89
Mean 0.01236
Std Dev 1.004

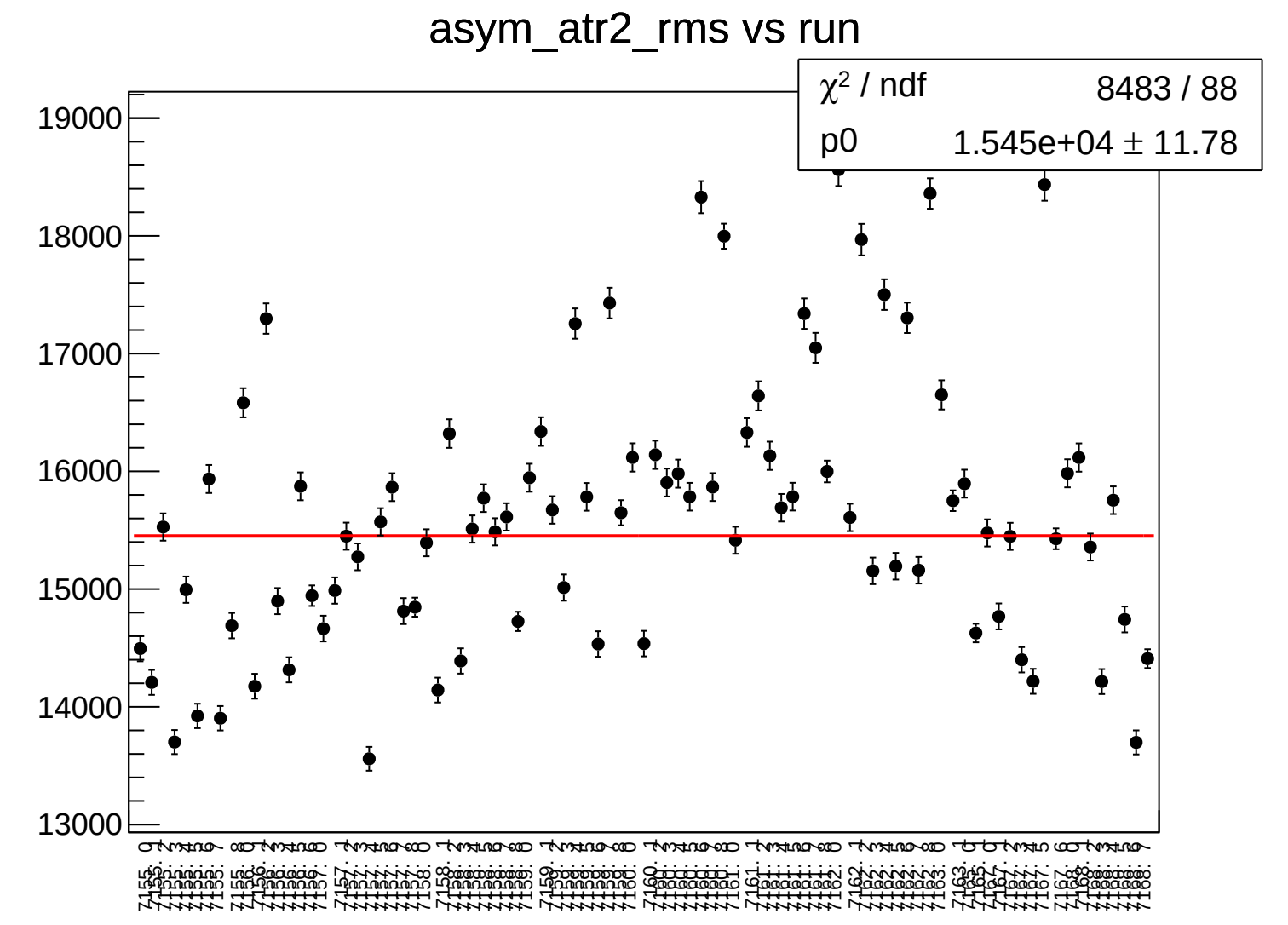

eigen_dit_asym_atr2_rms vs run
χ² / ndf 405.9 / 88
p0 2473 ± 1.88
2650
2600
2550
2500
2450
2400

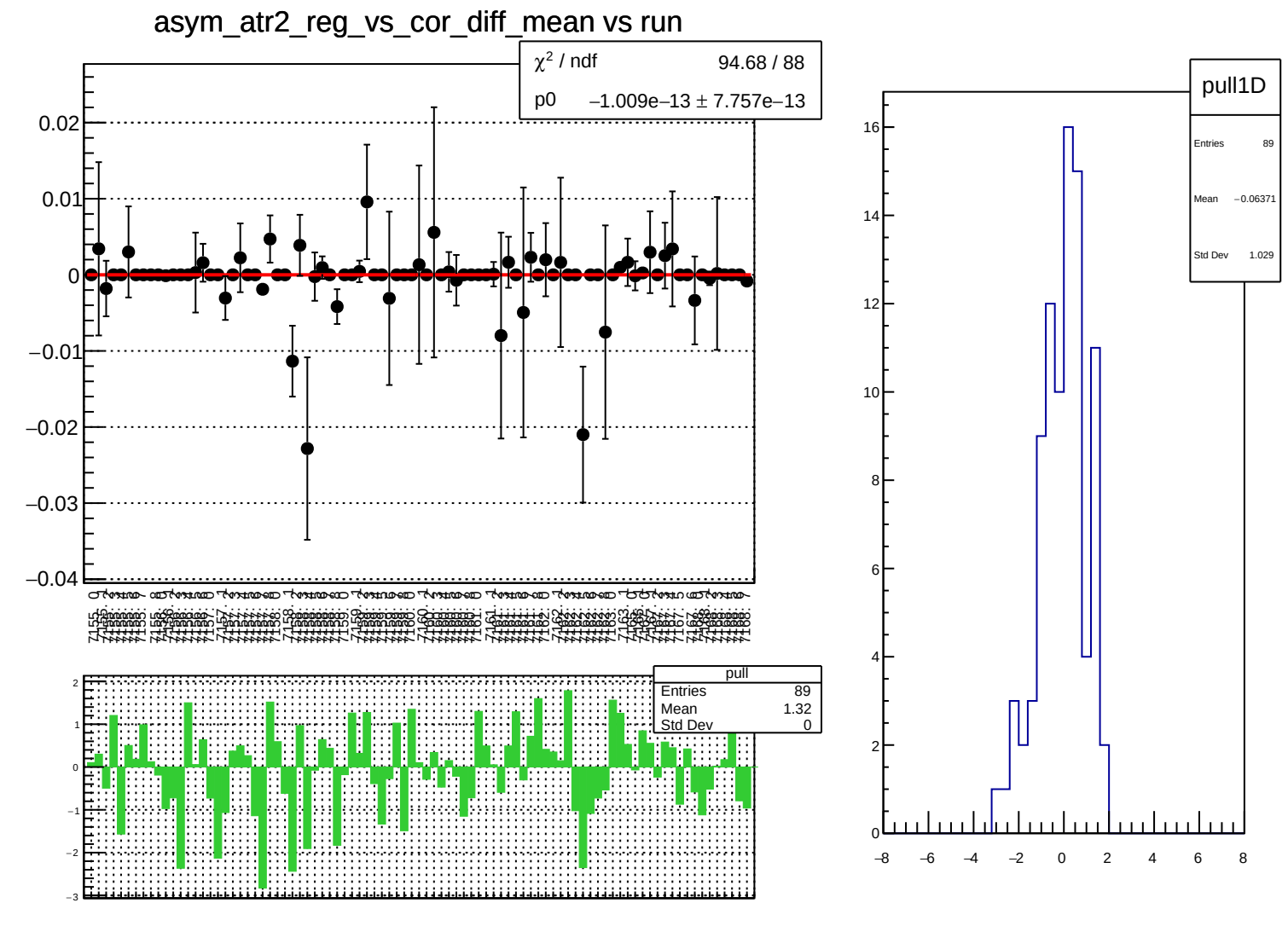

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.04 / 88
p0 −2846 ± 1.677e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −7.423
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02259
Std Dev 0.874
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

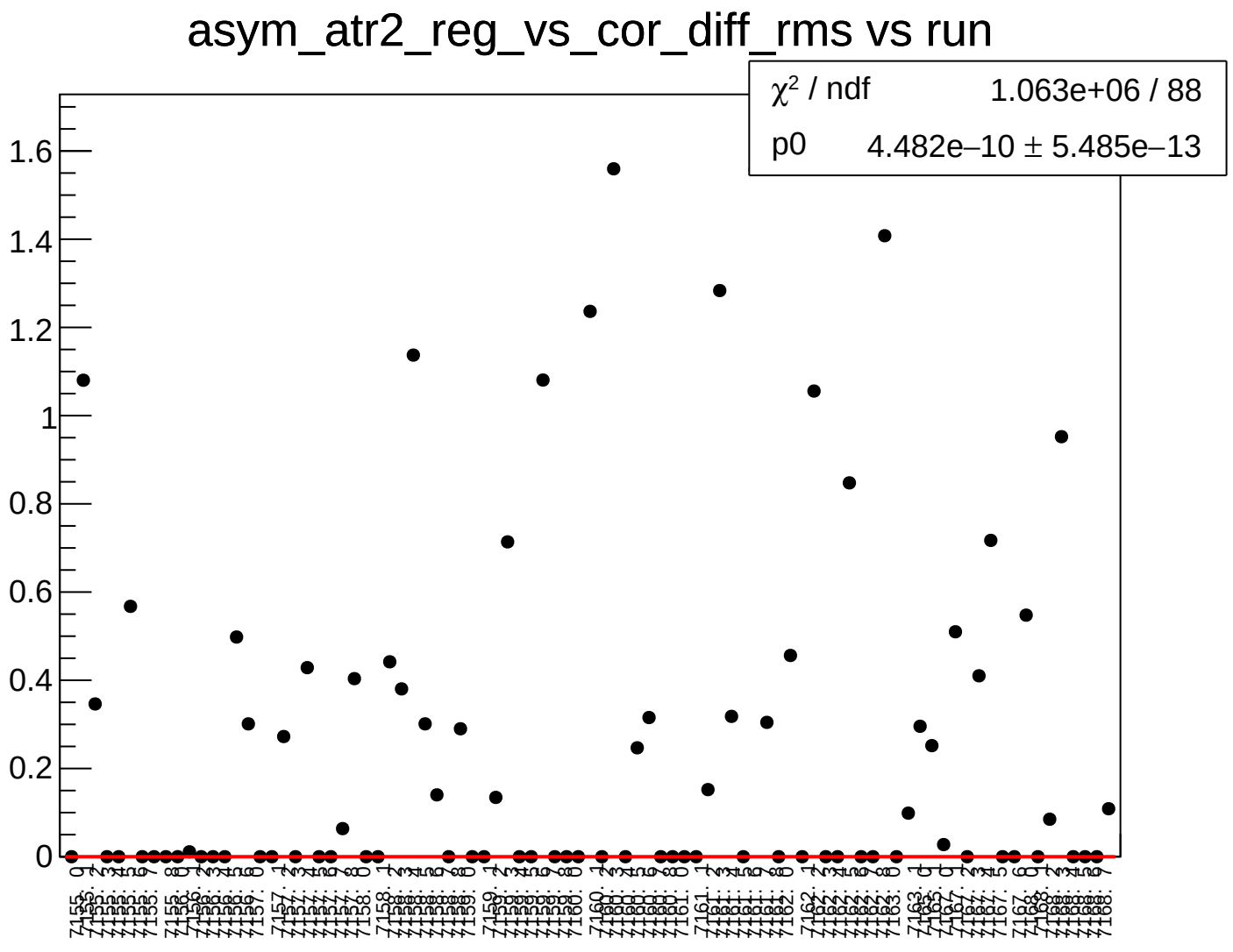

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 8941 / 88
p0 1.556e+04 ± 11.86
19000
18000
17000
16000
15000
14000
13000

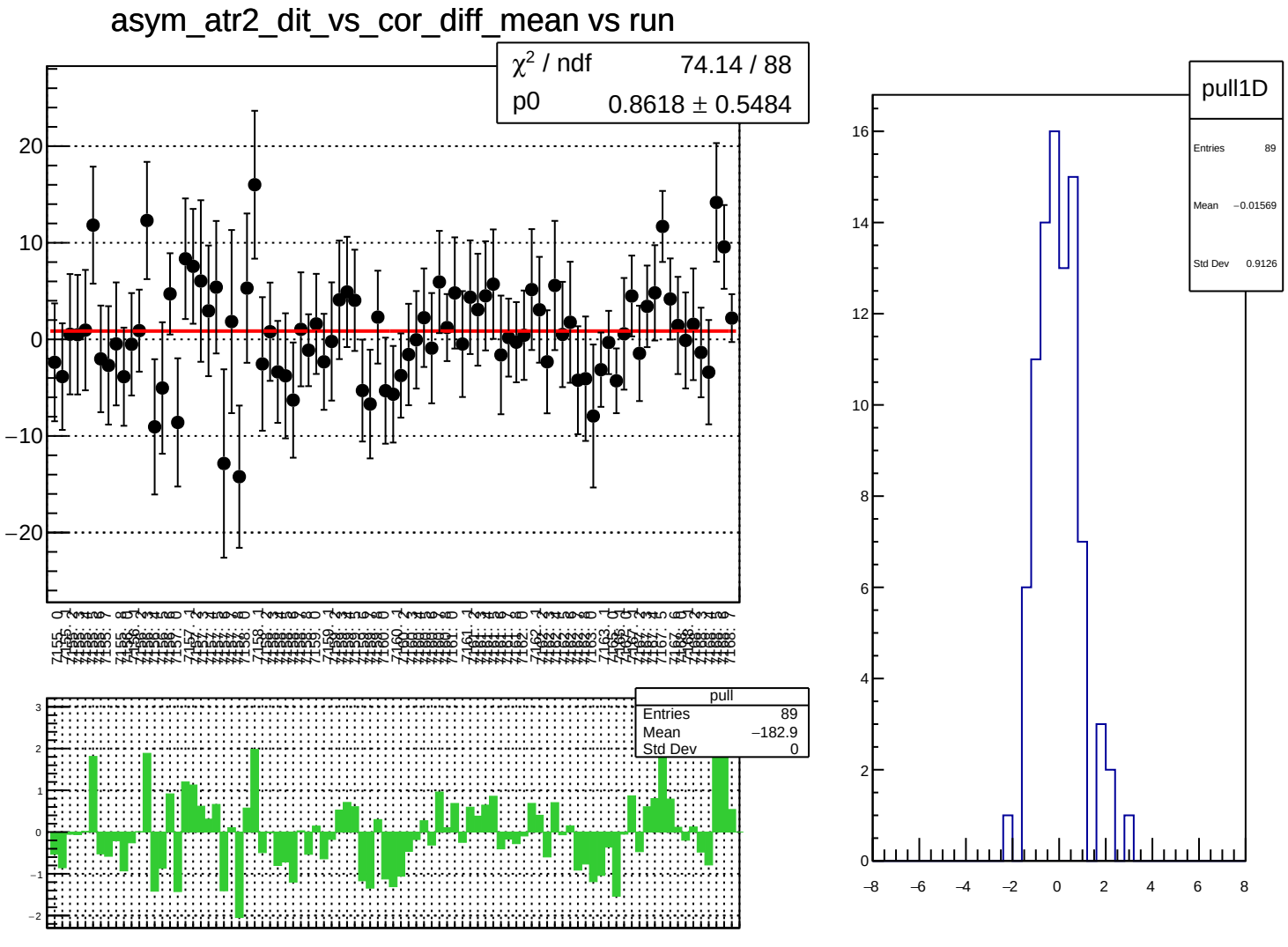

asym_atr2_mean vs run
×10^3
χ² / ndf 69.76 / 88
p0 −555 ± 1.665e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −51.73
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

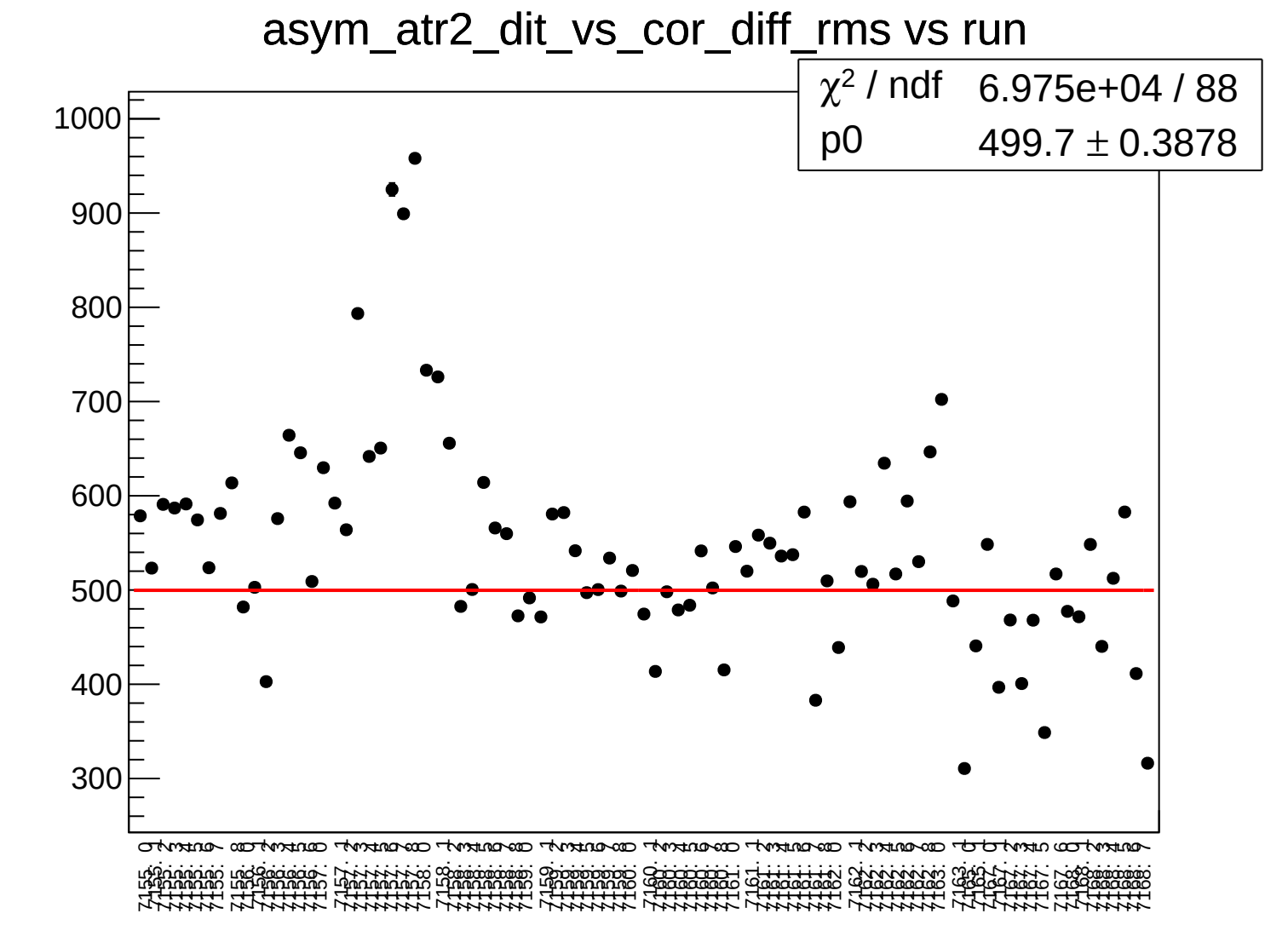

pull1D
Entries 89
Mean −0.01872
Std Dev 0.8852
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

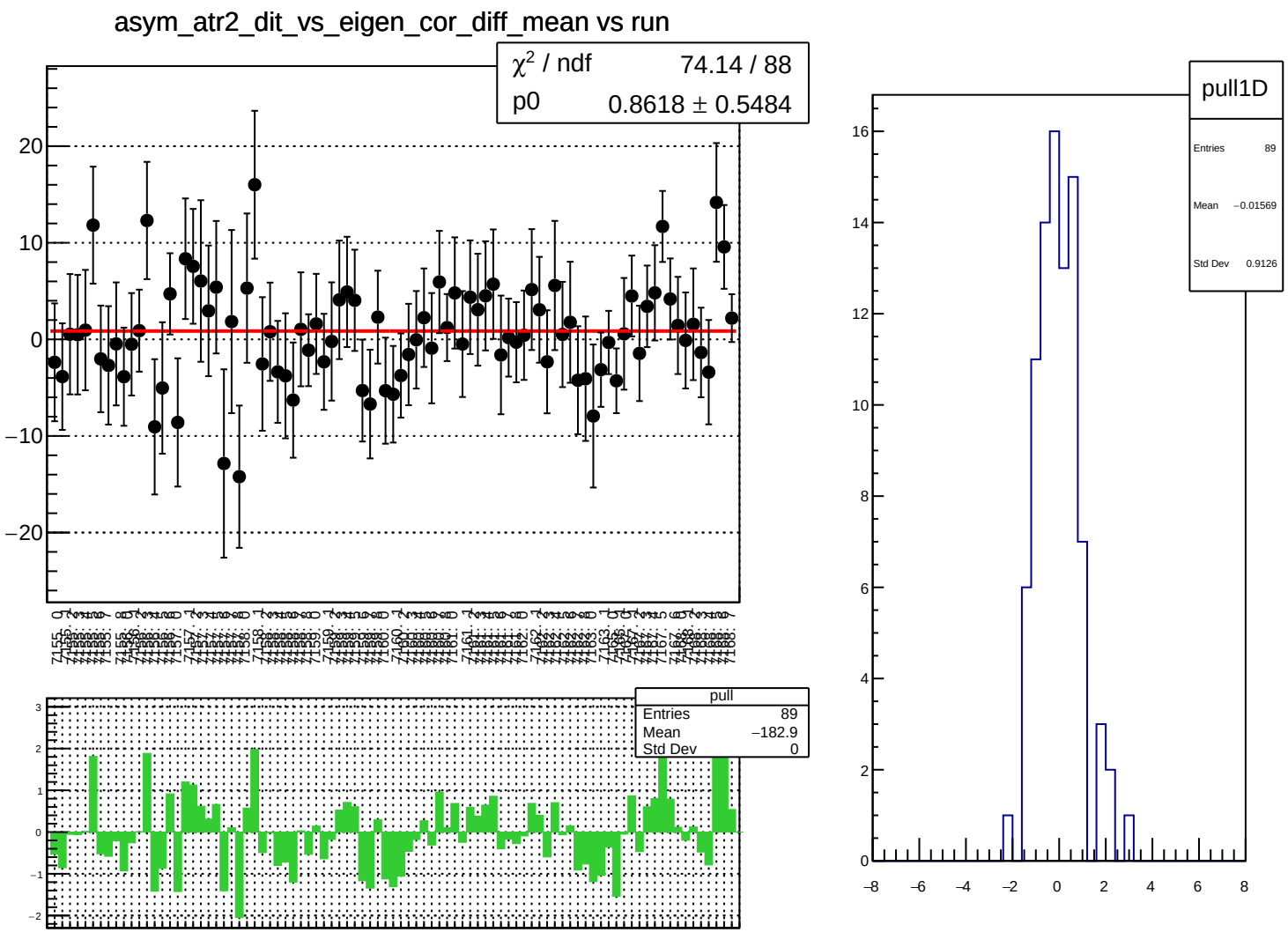

asym_atr2_rms vs run
χ² / ndf 8483 / 88
p0 1.545e+04 ± 11.78
19000
18000
17000
16000
15000
14000
13000

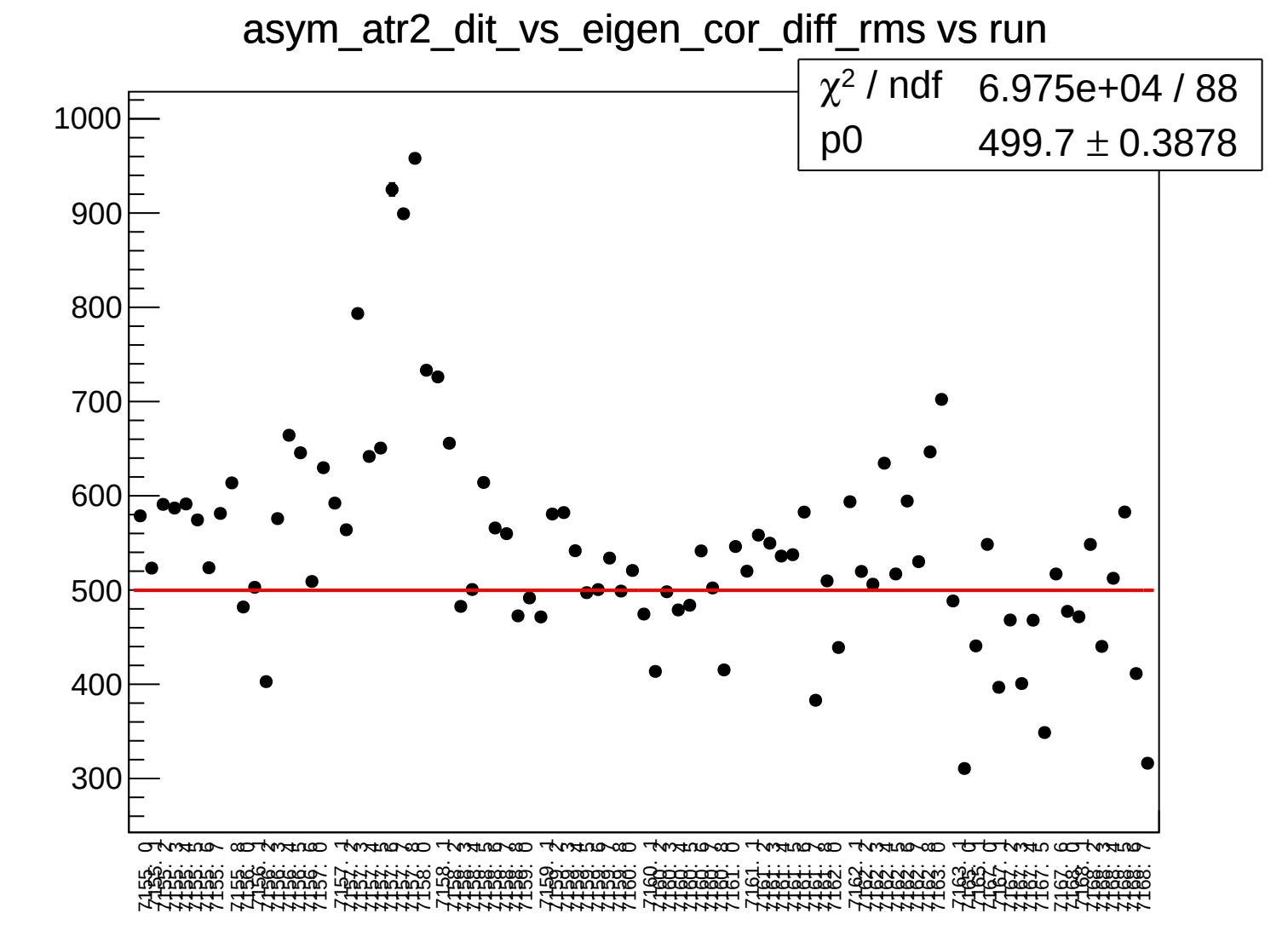

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 94.68 / 88
p0 −1.009e−13 ± 7.757e−13
pull
Entries 89
Mean 1.32
Std Dev 0
pull1D
Entries 89
Mean −0.06371
Std Dev 1.029

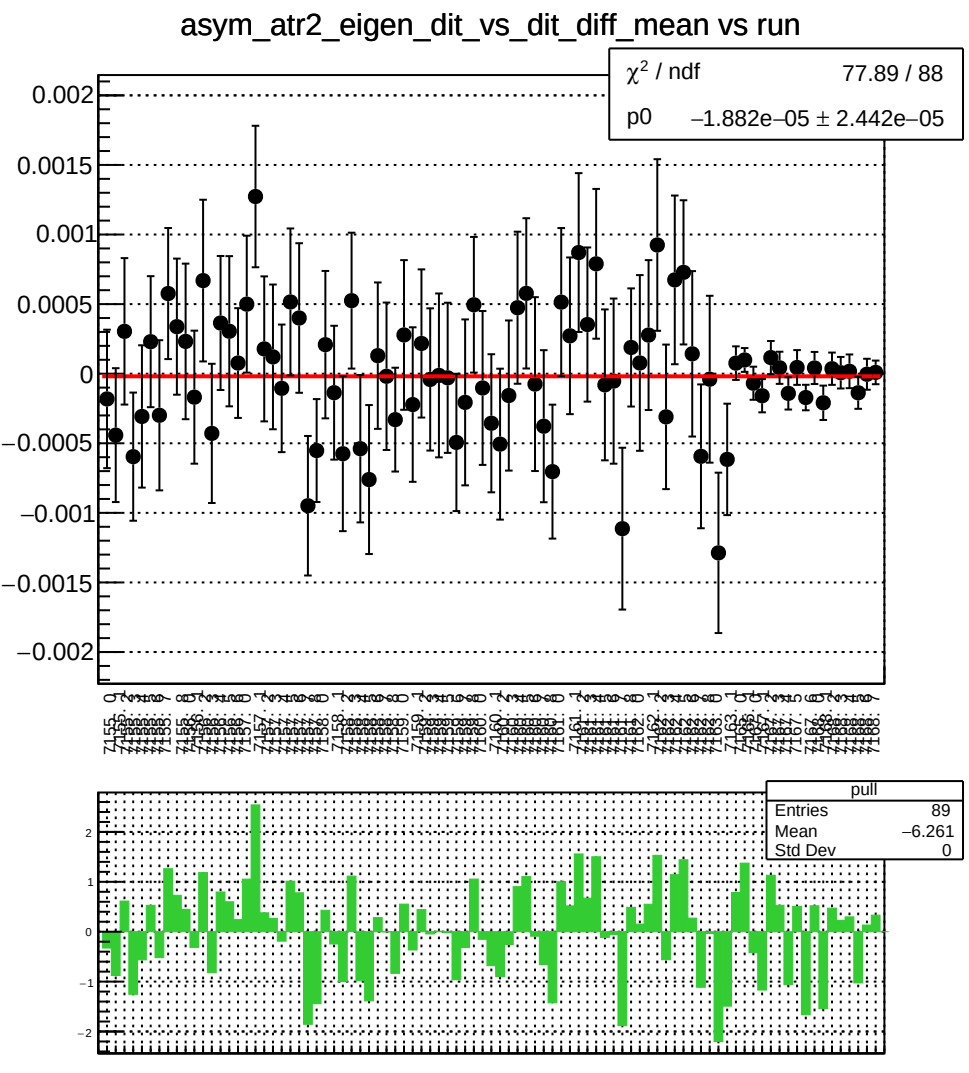

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.063e+06 / 88
p0 4.482e−10 ± 5.485e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

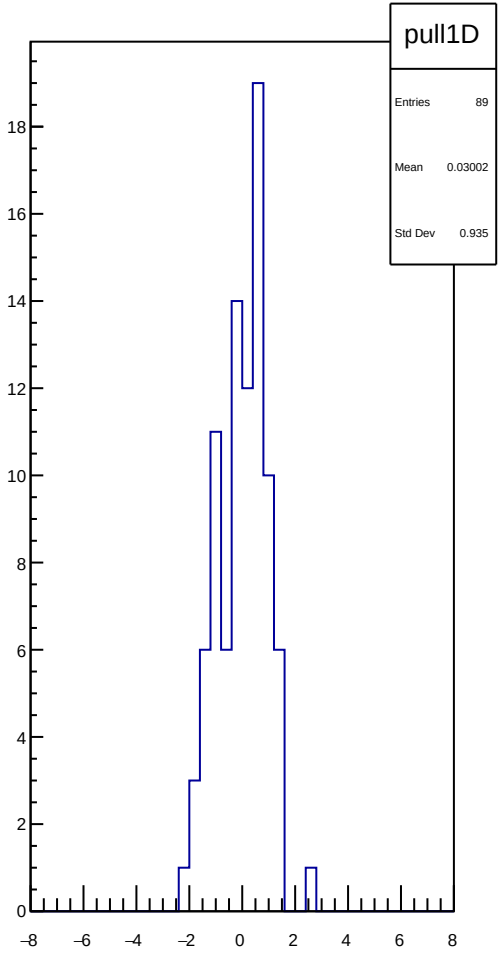

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 74.14 / 88
p0 0.8618 ± 0.5484
pull
Entries 89
Mean −182.9
Std Dev 0
pull1D
Entries 89
Mean −0.01569
Std Dev 0.9126

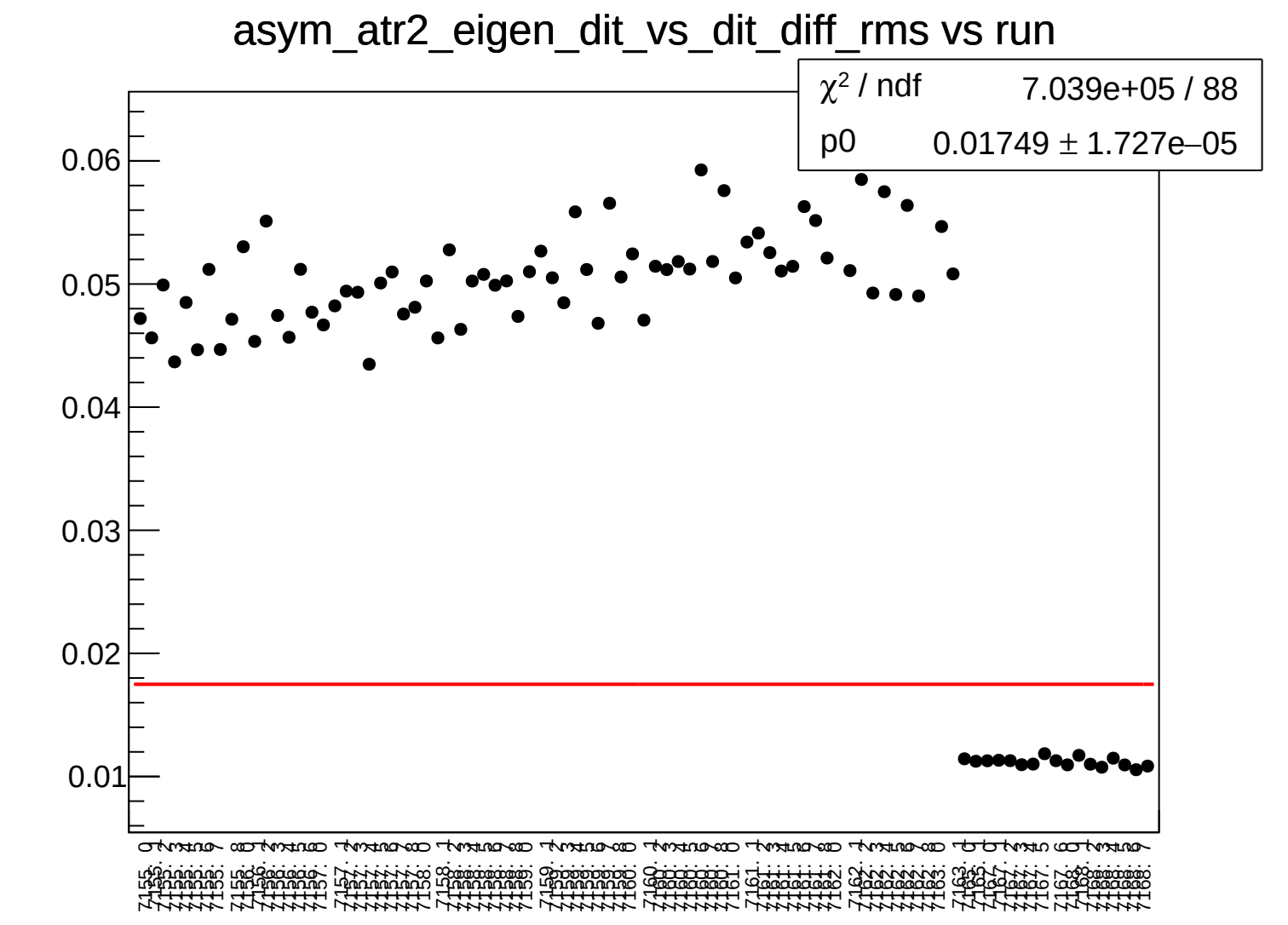

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.975e+04 / 88
p0 499.7 ± 0.3878
1000
900
800
700
600
500
400
300

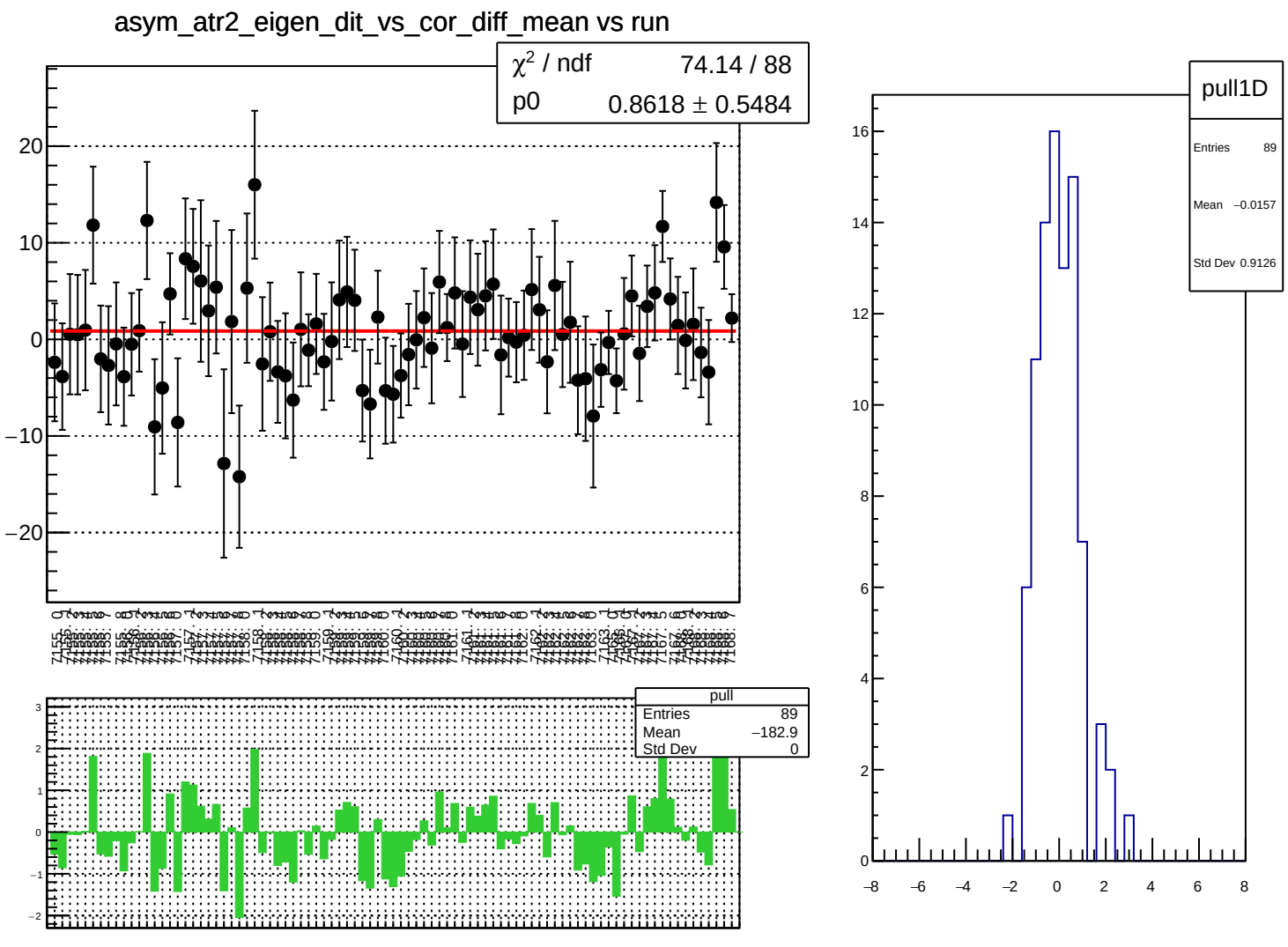

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.14 / 88
p0 0.8618 ± 0.5484
pull
Entries 89
Mean −182.9
Std Dev 0
pull1D
Entries 89
Mean −0.01569
Std Dev 0.9126

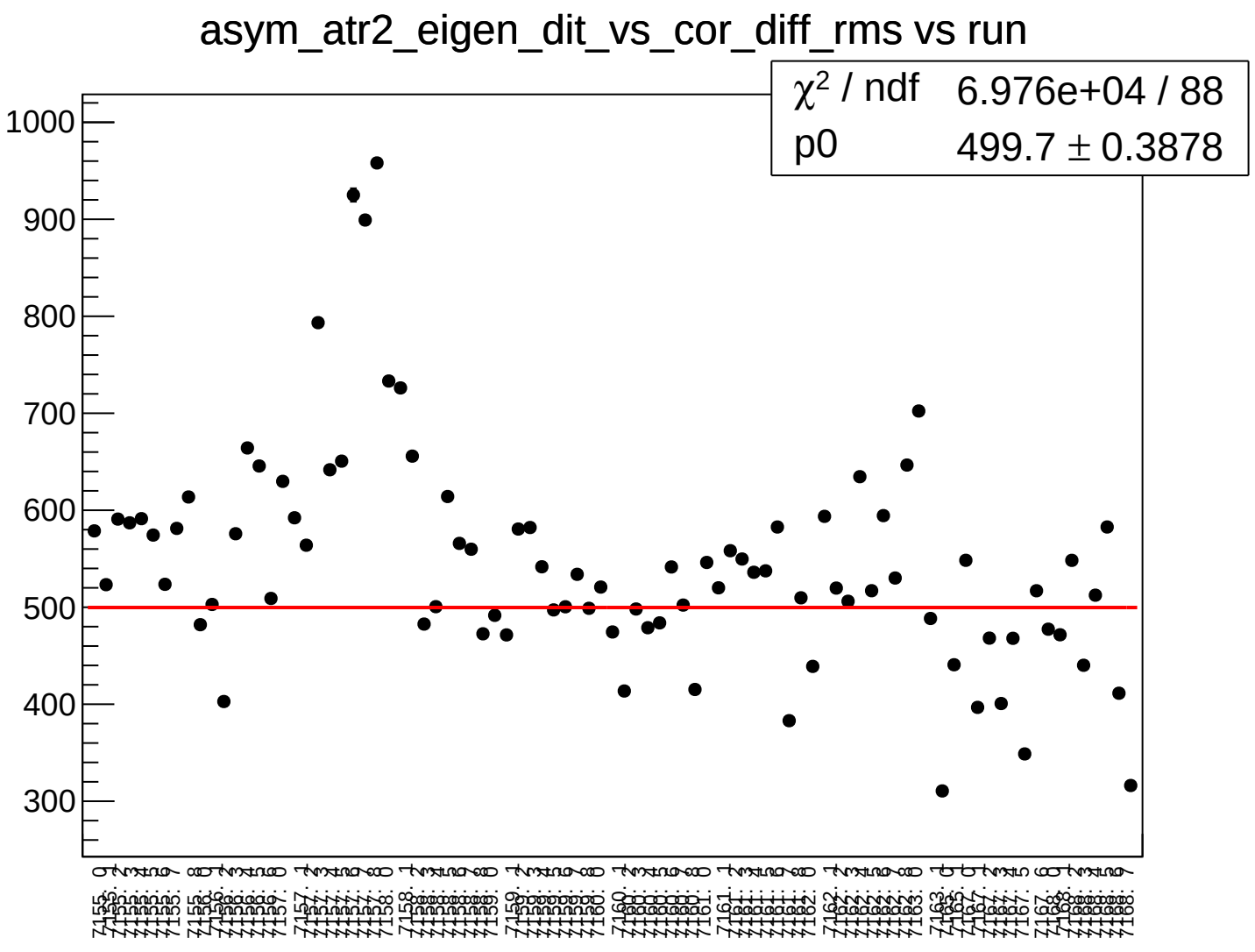

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.975e+04 / 88
p0 499.7 ± 0.3878
1000
900
800
700
600
500
400
300

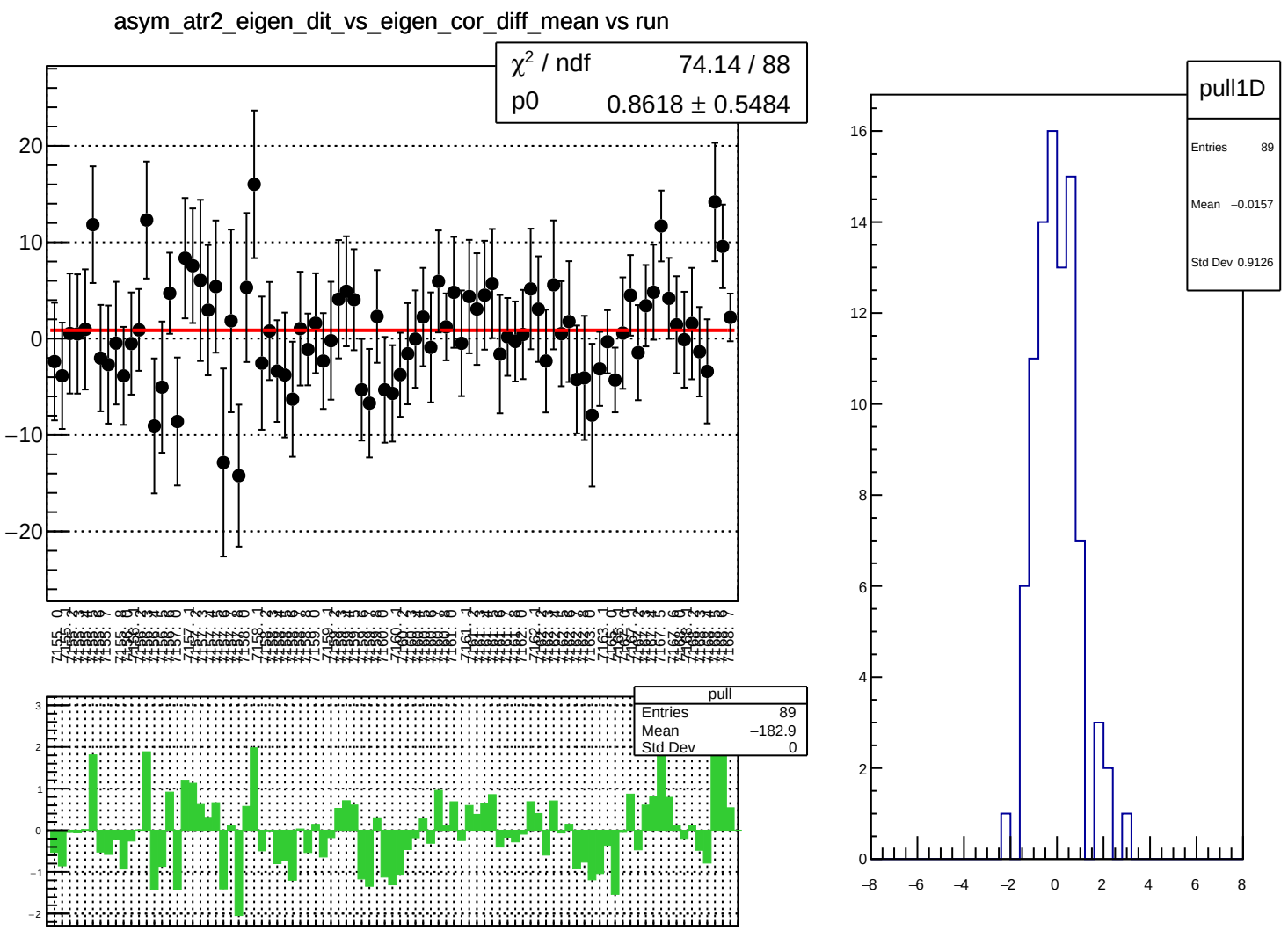

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 77.89 / 88
p0 −1.882e−05 ± 2.442e−05
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 89
Mean −6.261
Std Dev 0
2
1
0
−1
−2

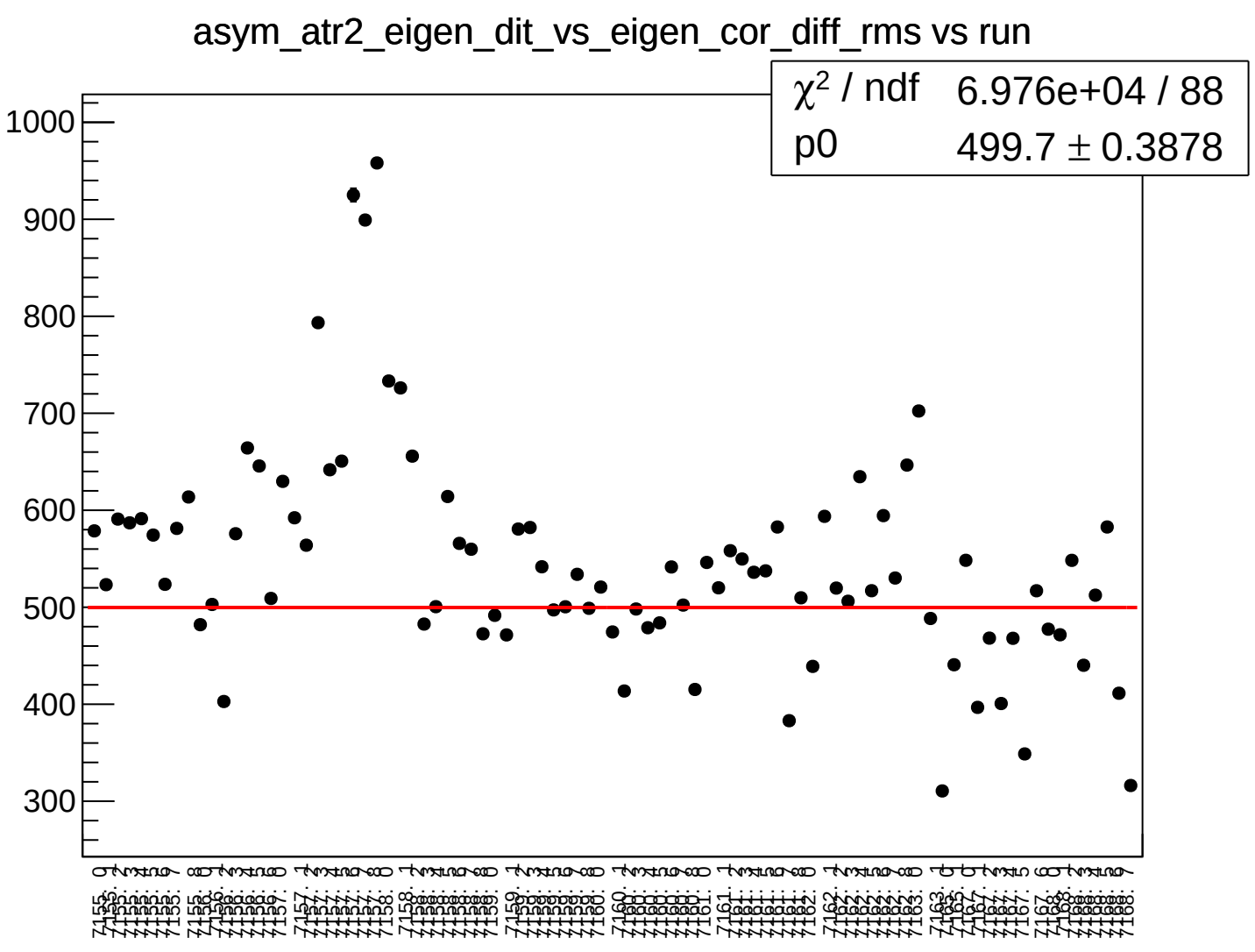

pull1D
Entries 89
Mean 0.03002
Std Dev 0.935
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

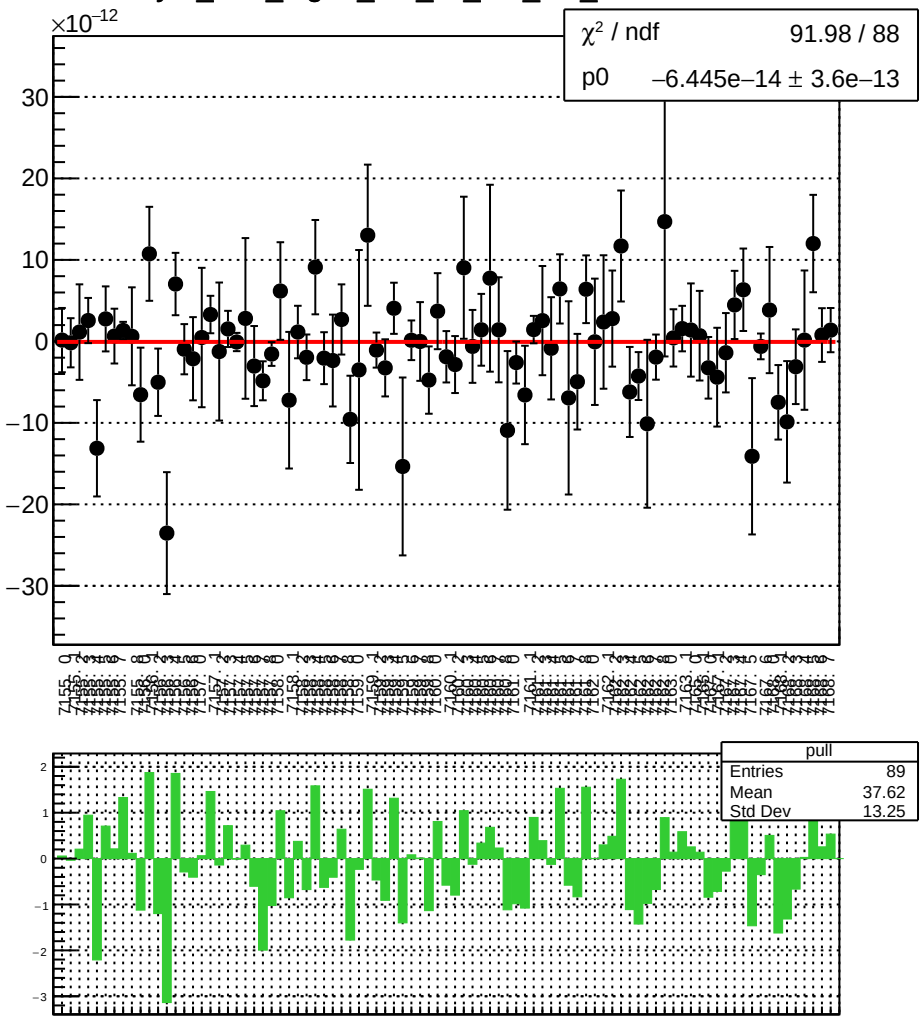

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.039e+05 / 88
p0 0.01749 ± 1.727e−05
0.06
0.05
0.04
0.03
0.02
0.01

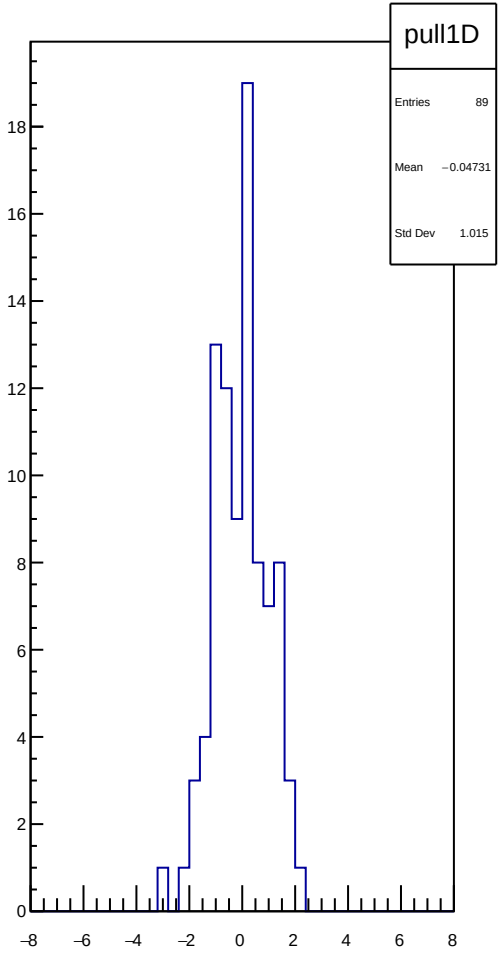

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.14 / 88
p0 0.8618 ± 0.5484
pull
Entries 89
Mean −182.9
Std Dev 0
pull1D
Entries 89
Mean −0.0157
Std Dev 0.9126

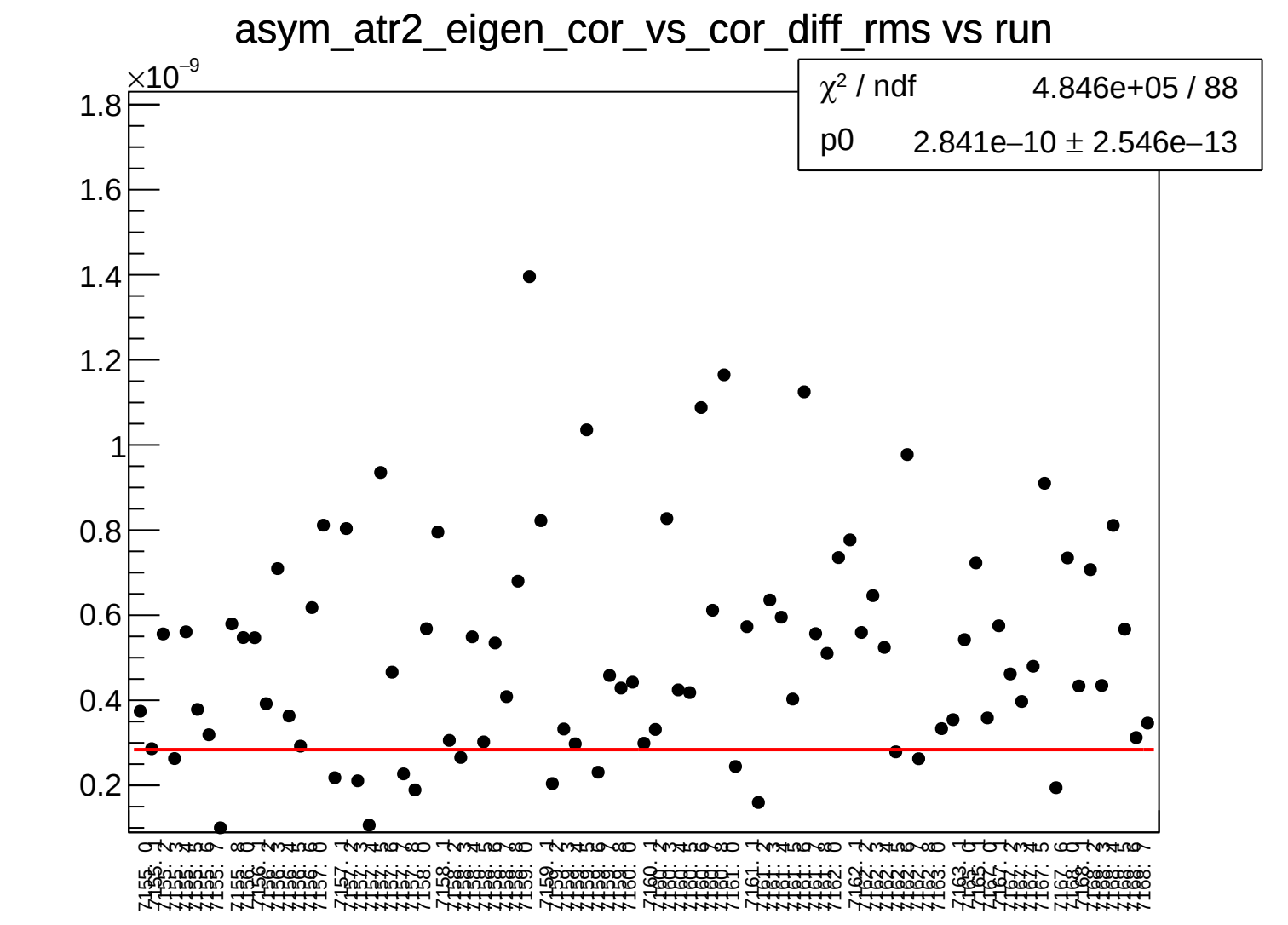

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.976e+04 / 88
p0 499.7 ± 0.3878
1000
900
800
700
600
500
400
300

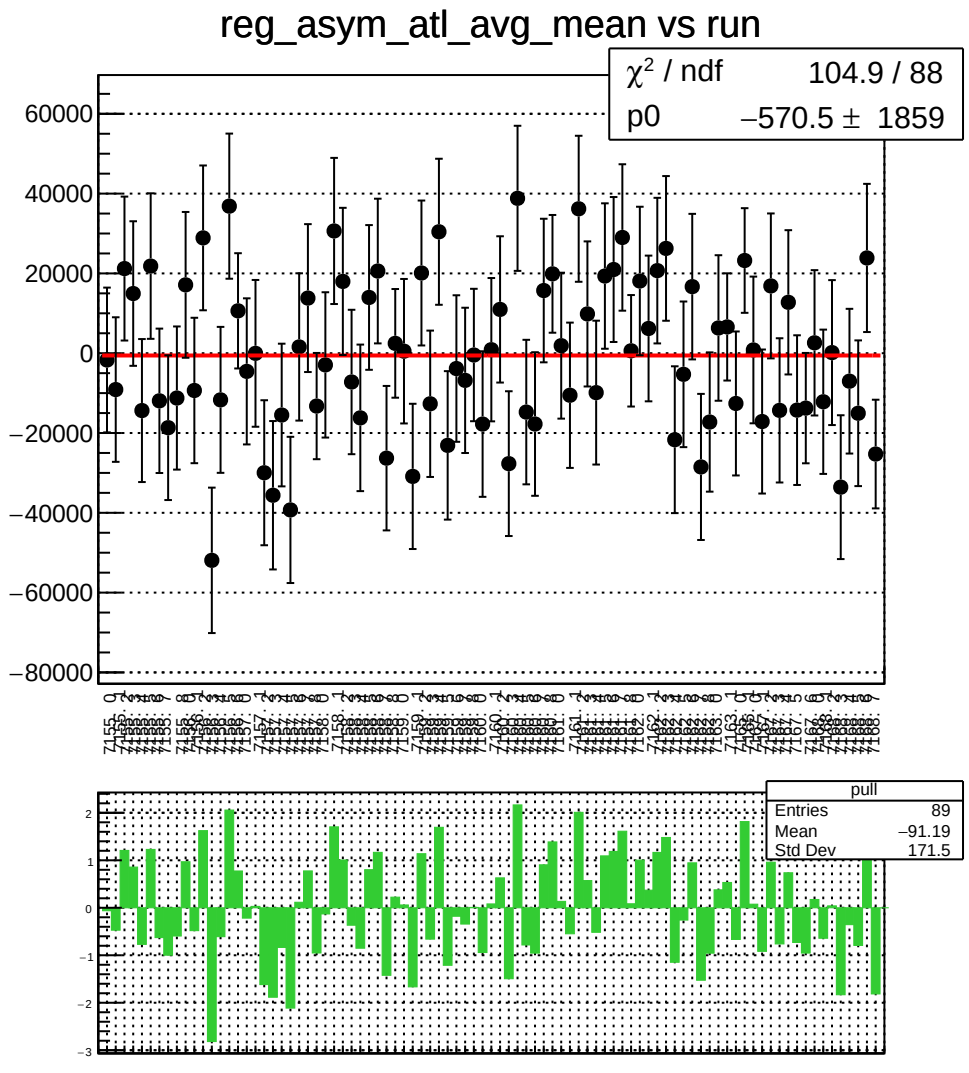

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.14 / 88
p0 0.8618 ± 0.5484
pull
Entries 89
Mean −182.9
Std Dev 0
pull1D
Entries 89
Mean −0.0157
Std Dev 0.9126

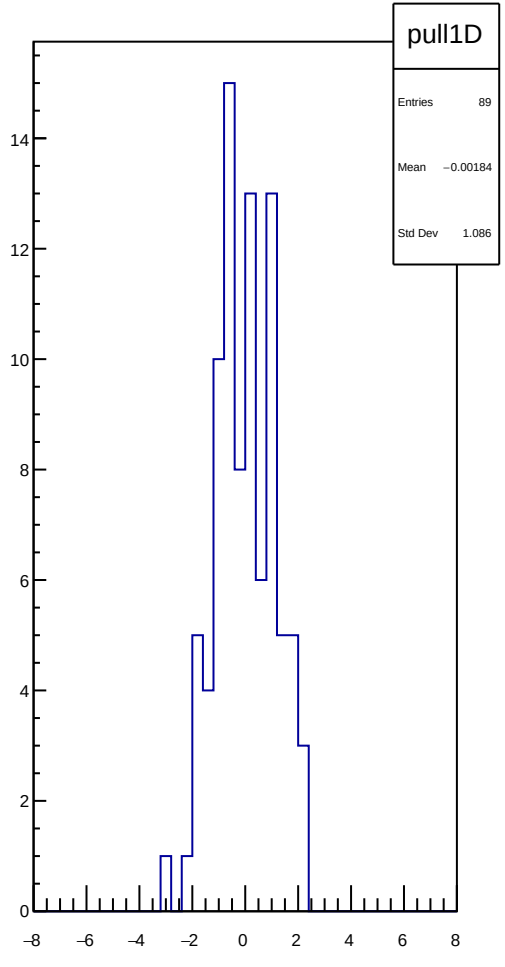

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.976e+04 / 88
p0 499.7 ± 0.3878
1000
900
800
700
600
500
400
300

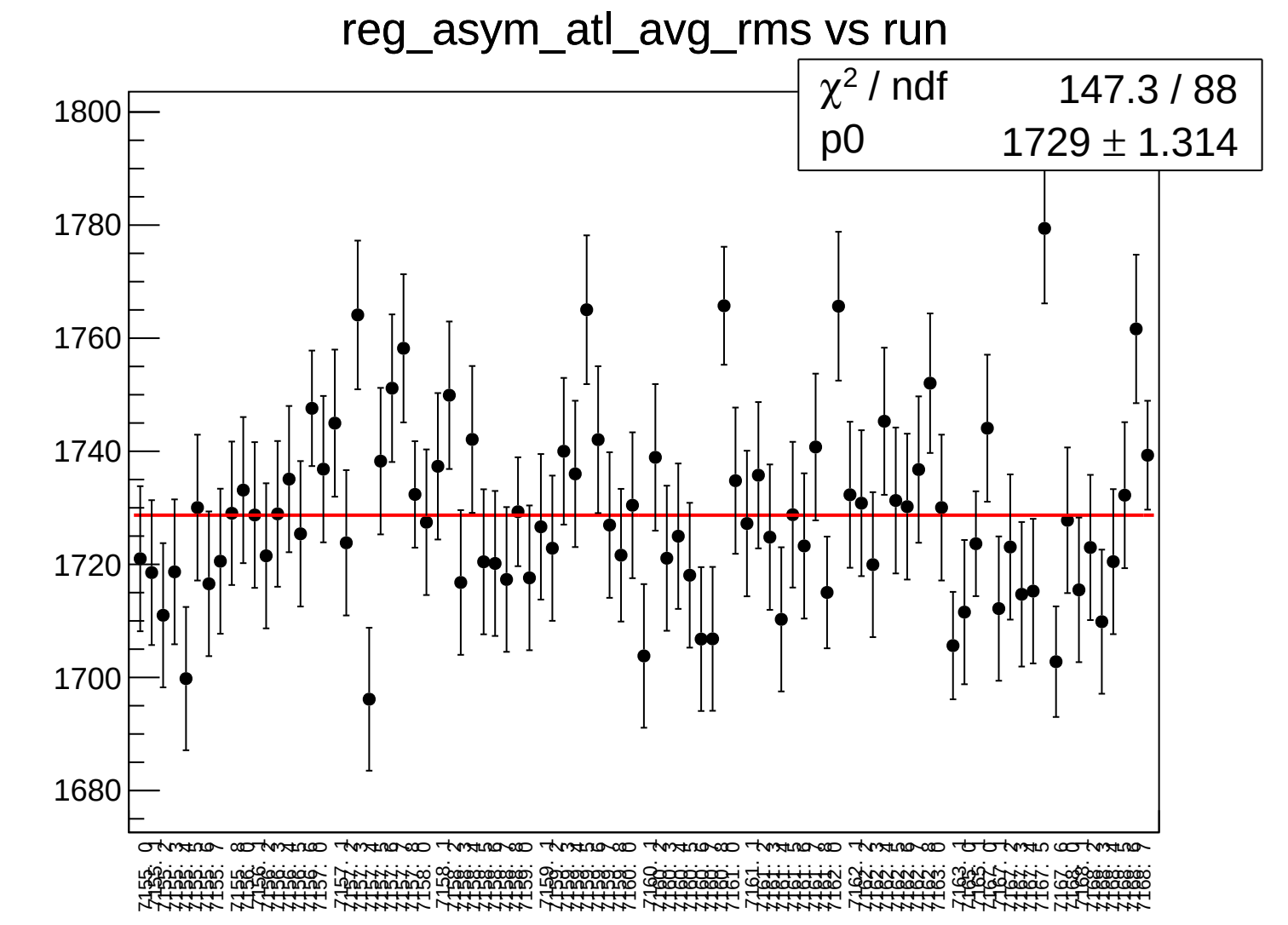

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.98 / 88
p0 −6.445e−14 ± 3.6e−13
pull
Entries 89
Mean 37.62
Std Dev 13.25

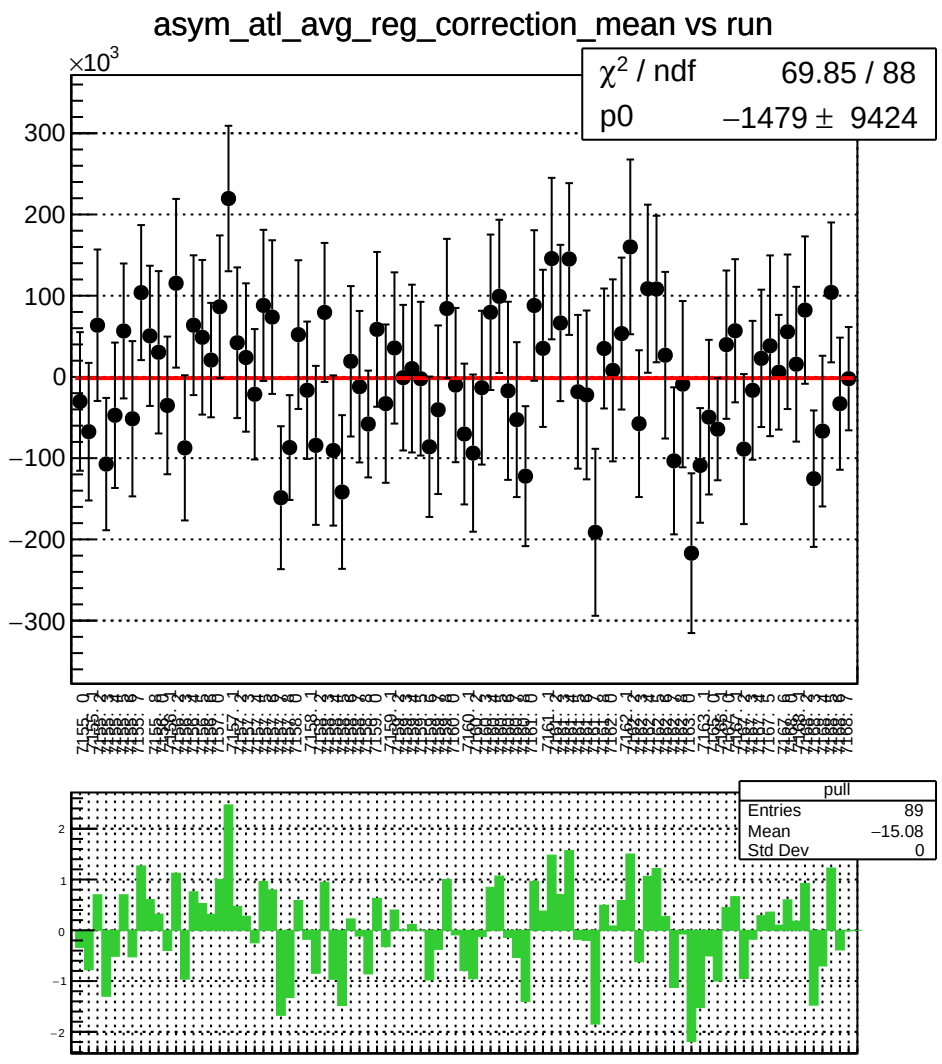

pull1D
Entries 89
Mean −0.04731
Std Dev 1.015

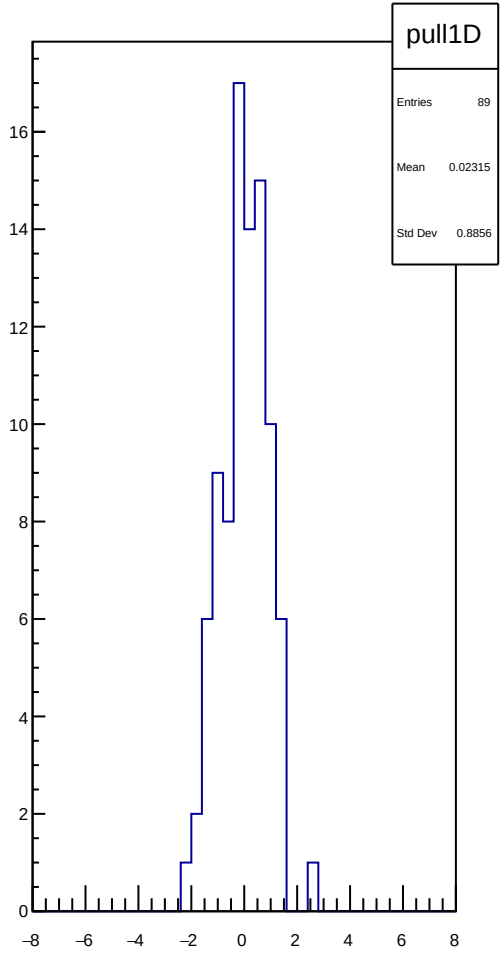

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 4.846e+05 / 88
p0 2.841e−10 ± 2.546e−13

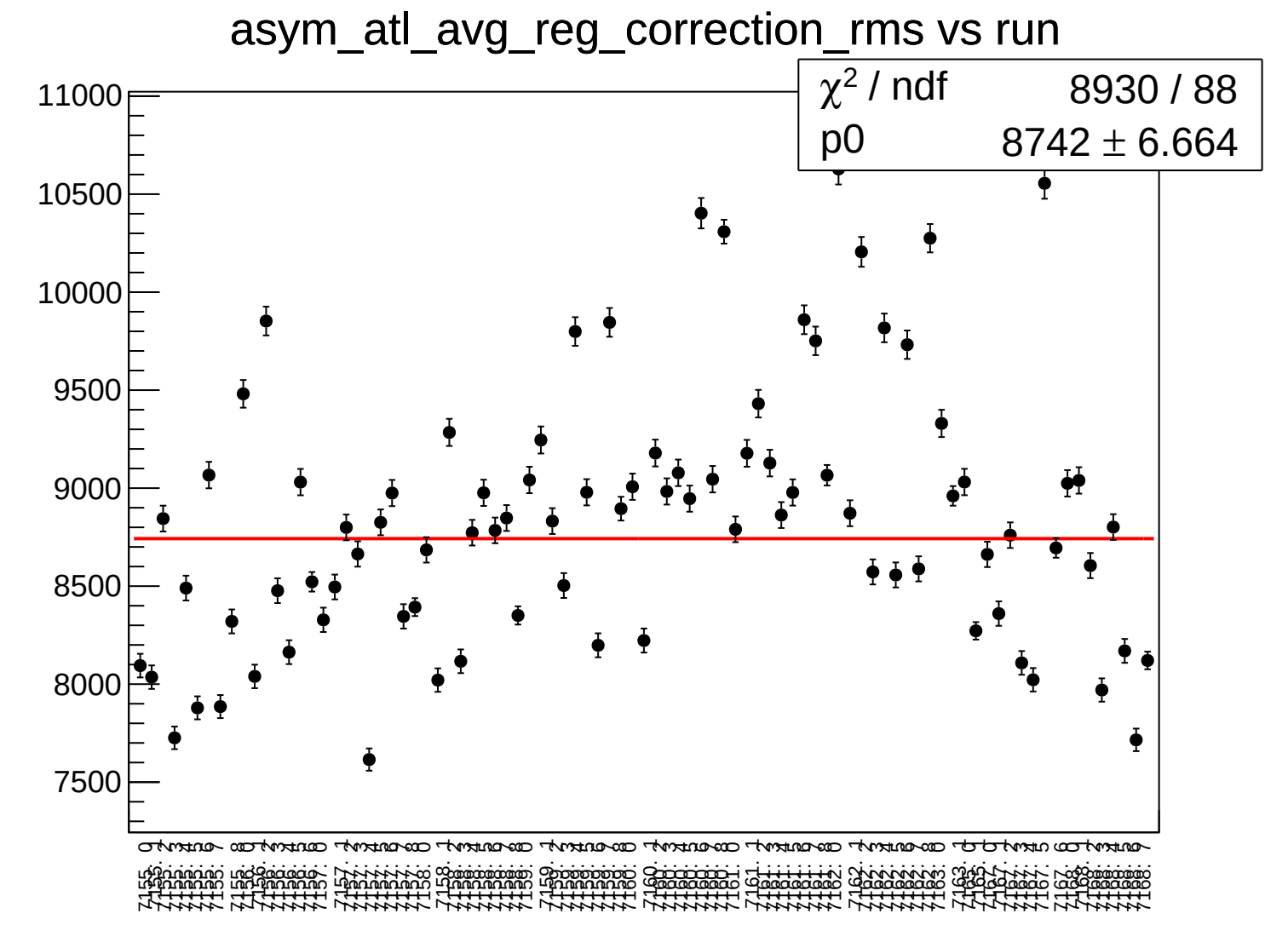

reg_asym_atl_avg_mean vs run
χ² / ndf 104.9 / 88
p0 −570.5 ± 1859
pull
Entries 89
Mean −91.19
Std Dev 171.5

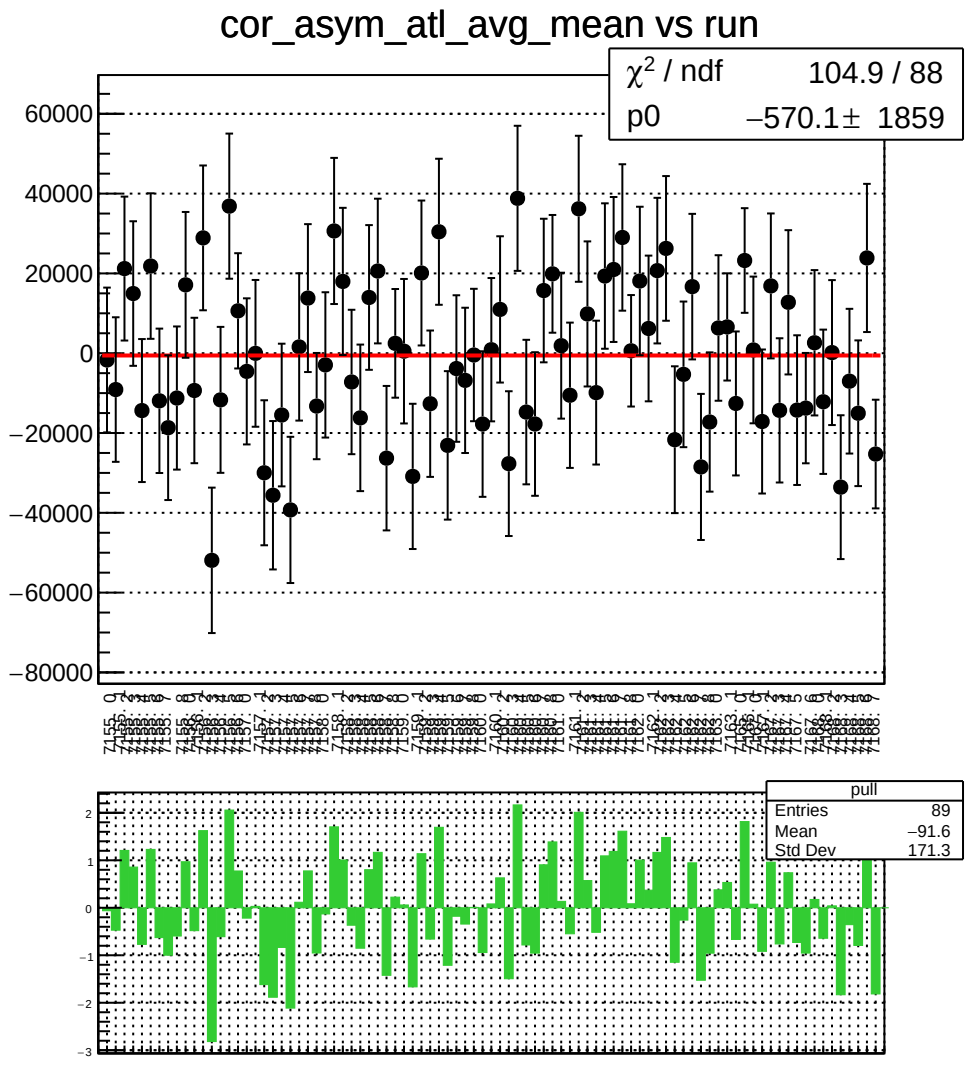

pull1D
Entries 89
Mean −0.00184
Std Dev 1.086

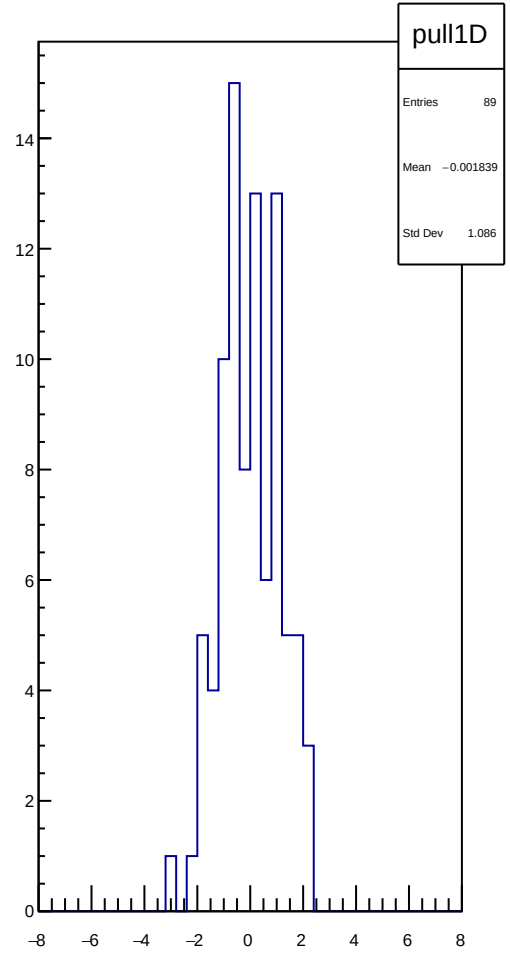

reg_asym_atl_avg_rms vs run
χ^2 / ndf 147.3 / 88
p0 1729 ± 1.314
1800
1780
1760
1740
1720
1700
1680

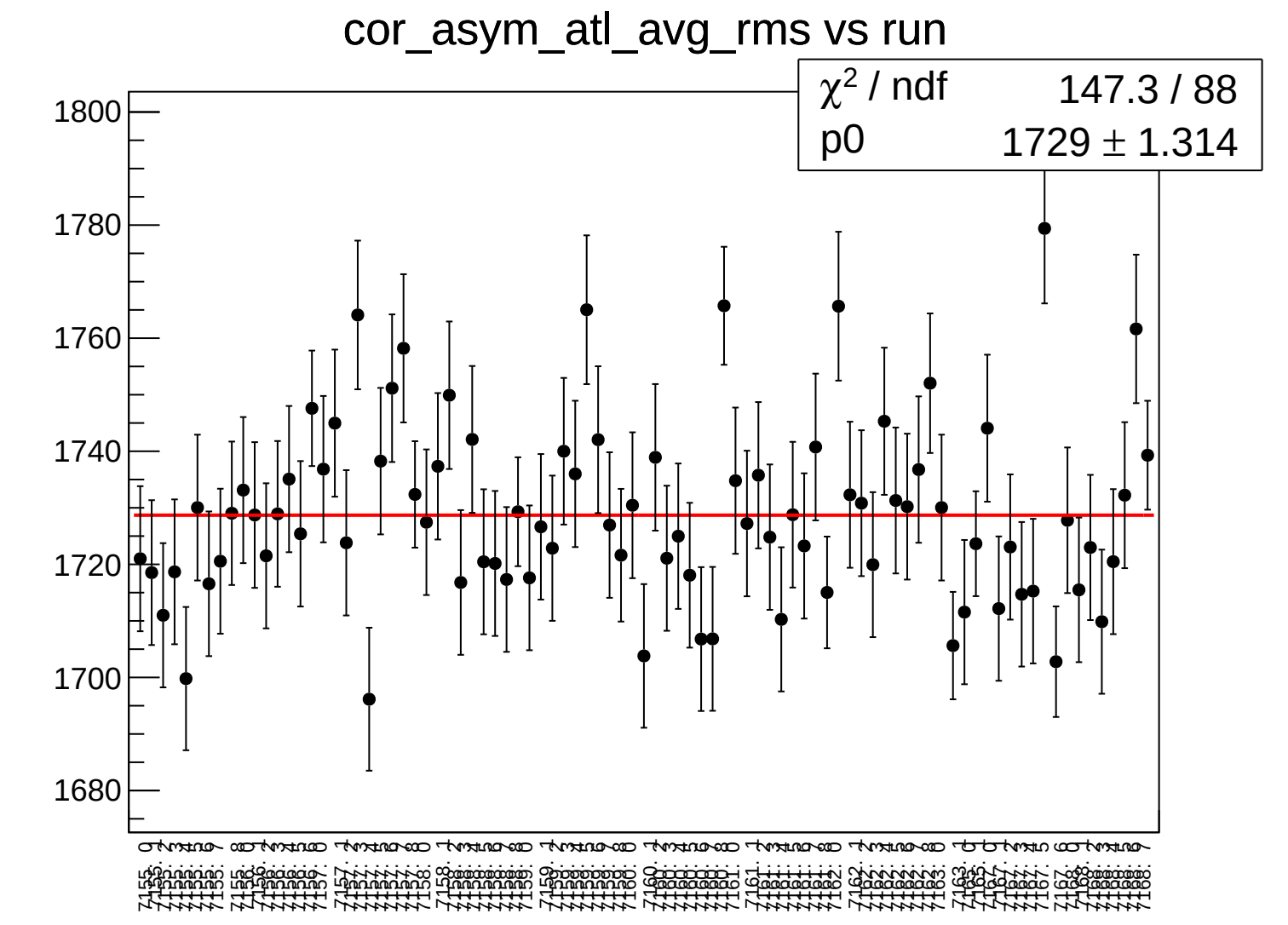

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.85 / 88
p0 −1479 ± 9424
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.08
Std Dev 0
2
1
0
−1
−2

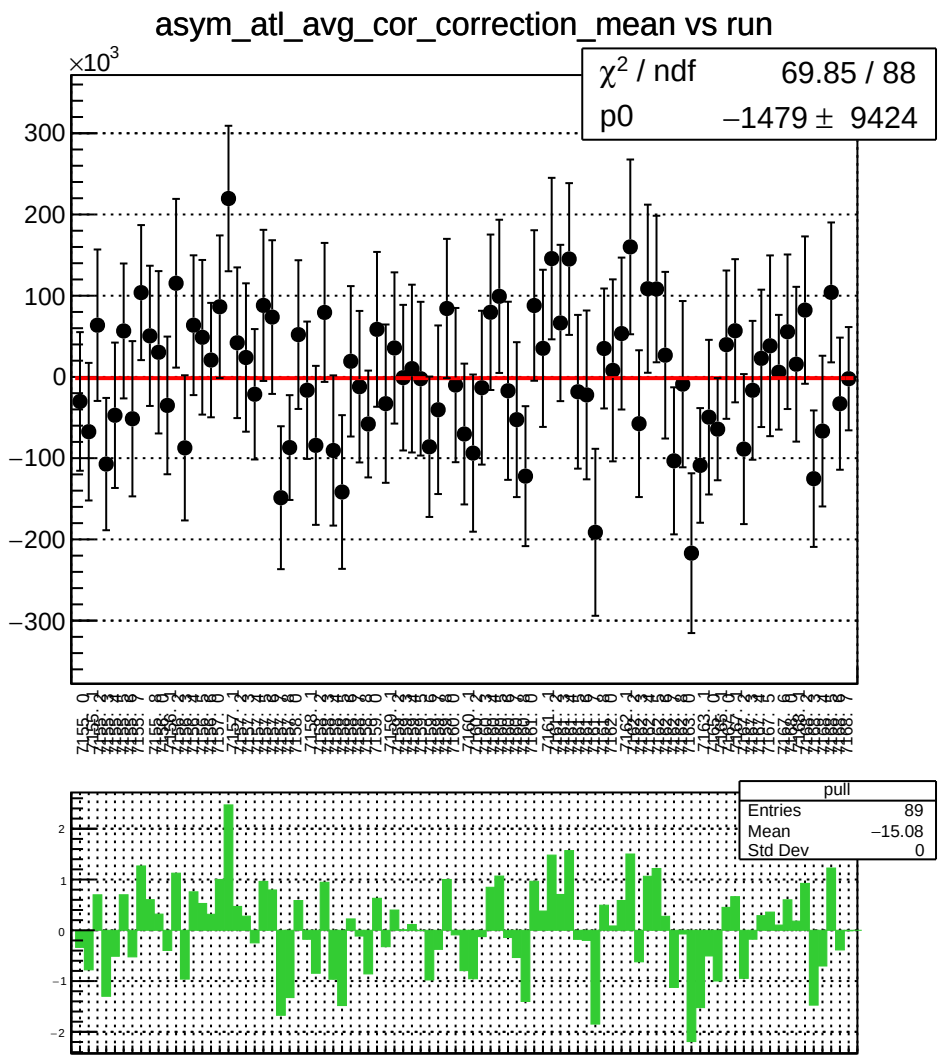

pull1D
Entries 89
Mean 0.02315
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

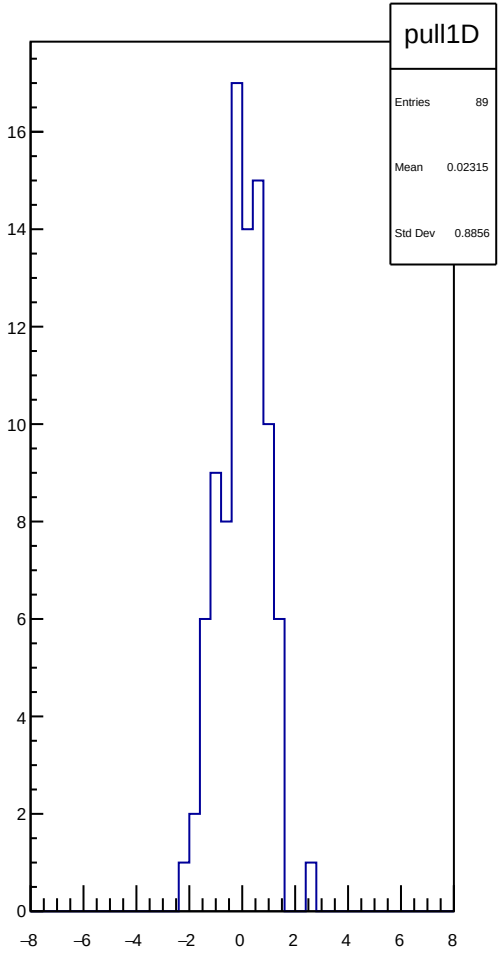

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 8930 / 88
p0 8742 ± 6.664
11000
10500
10000
9500
9000
8500
8000
7500

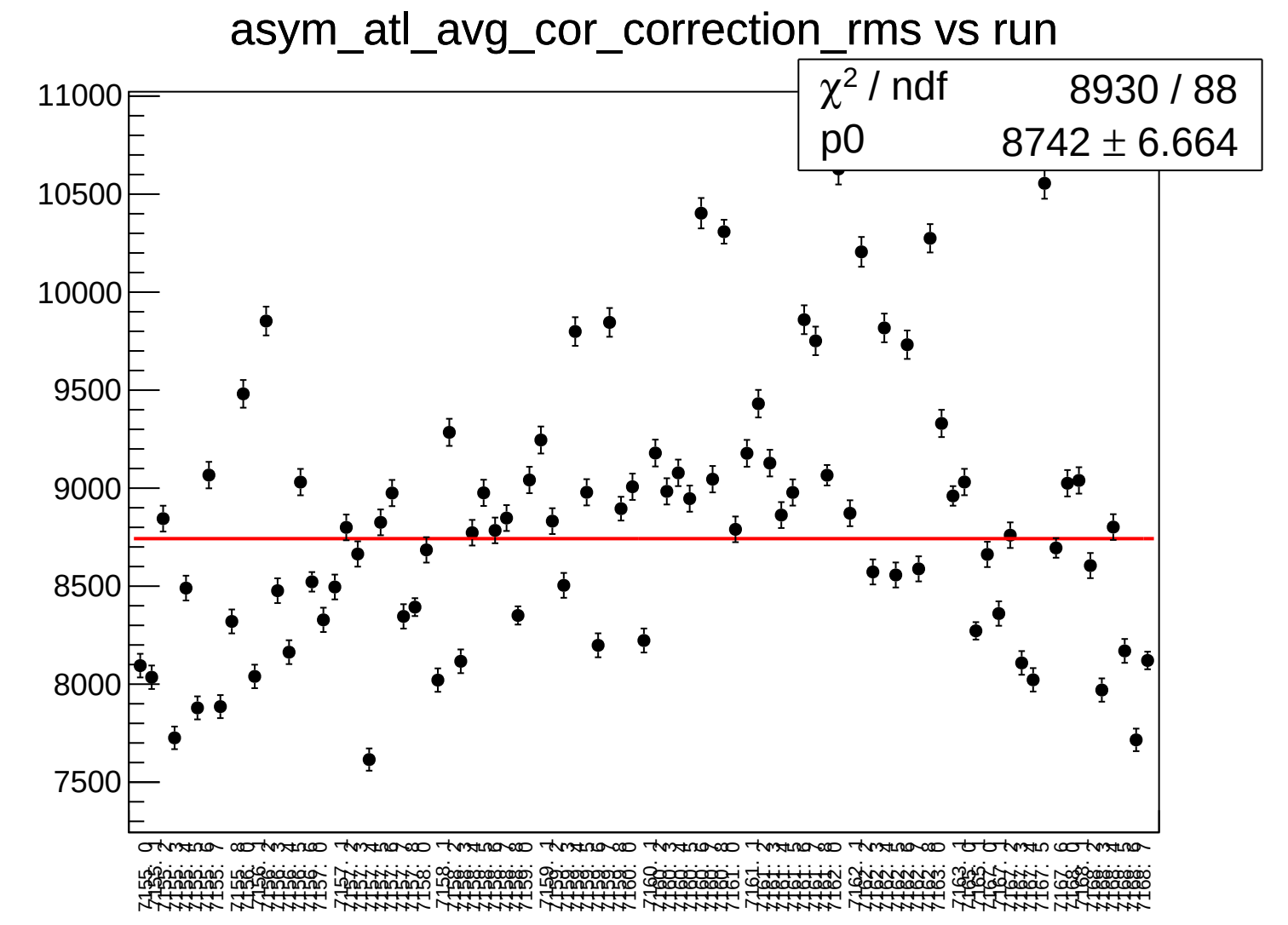

cor_asym_atl_avg_mean vs run
χ² / ndf 104.9 / 88
p0 −570.1± 1859
pull
Entries 89
Mean −91.6
Std Dev 171.3

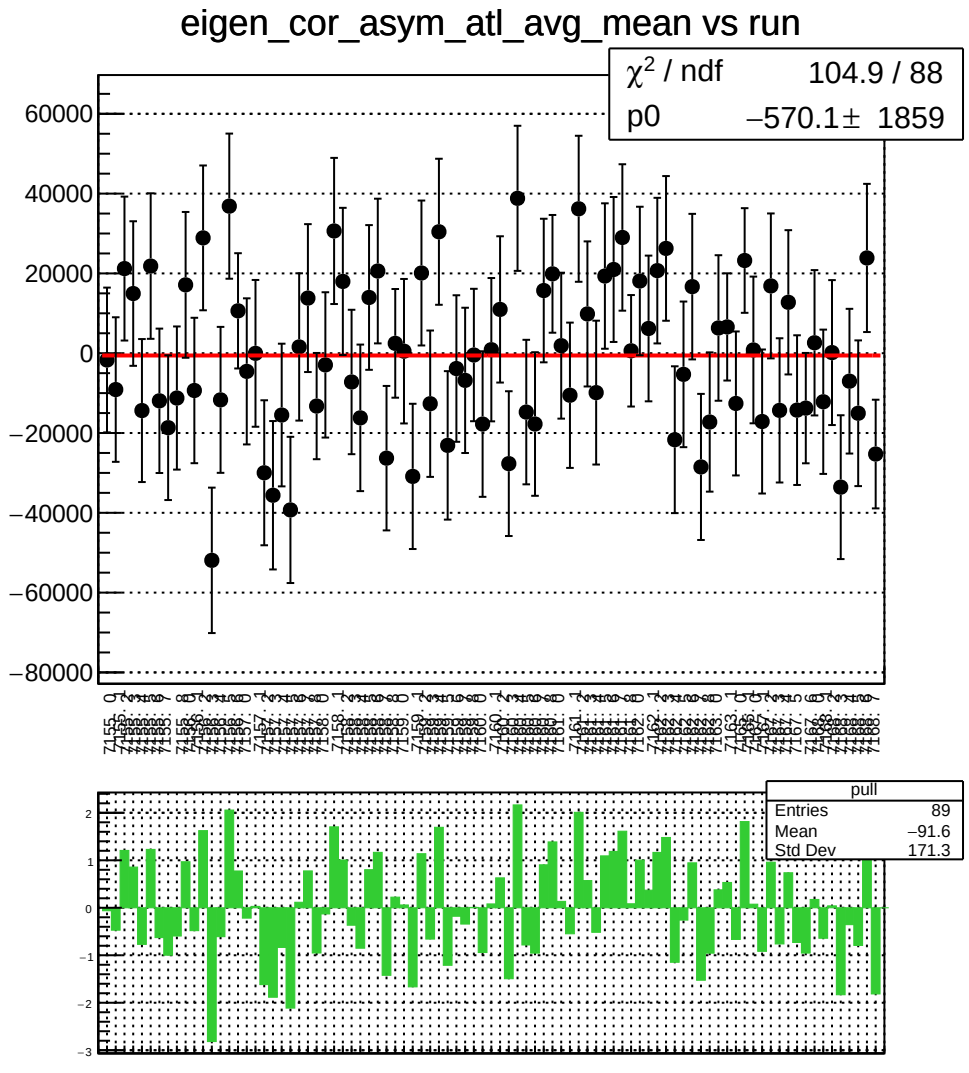

pull1D
Entries 89
Mean −0.001839
Std Dev 1.086

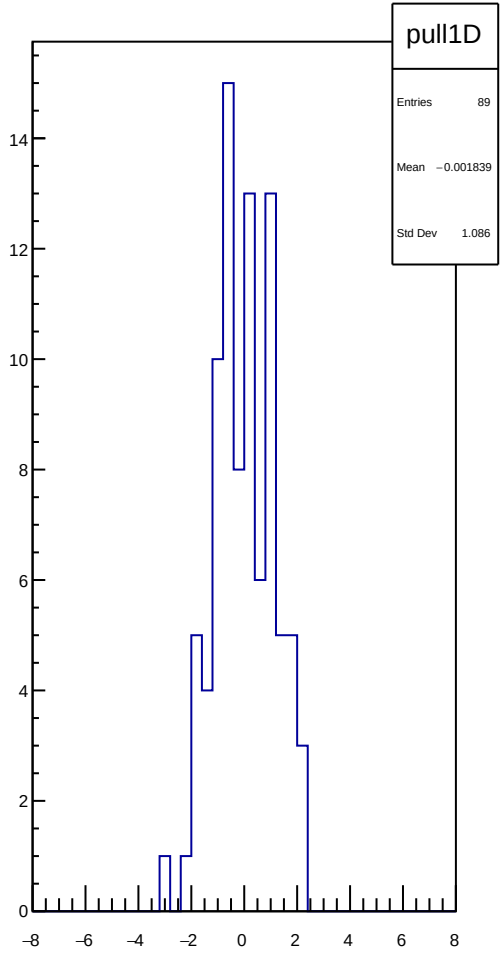

cor_asym_atl_avg_rms vs run
χ^2 / ndf 147.3 / 88
p0 1729 ± 1.314
1800
1780
1760
1740
1720
1700
1680

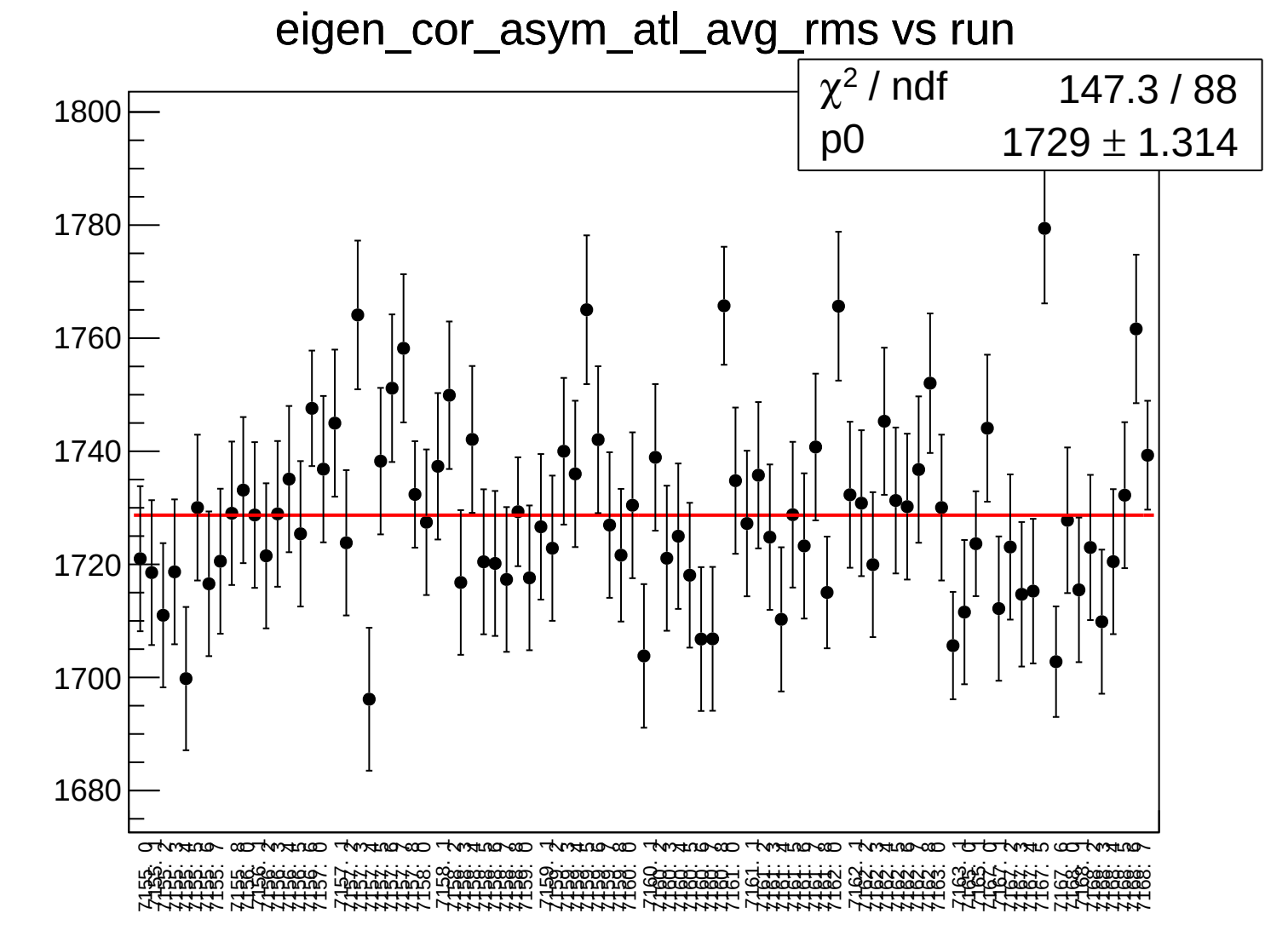

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.85 / 88
p0 −1479 ± 9424
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.08
Std Dev 0
2
1
0
−1
−2

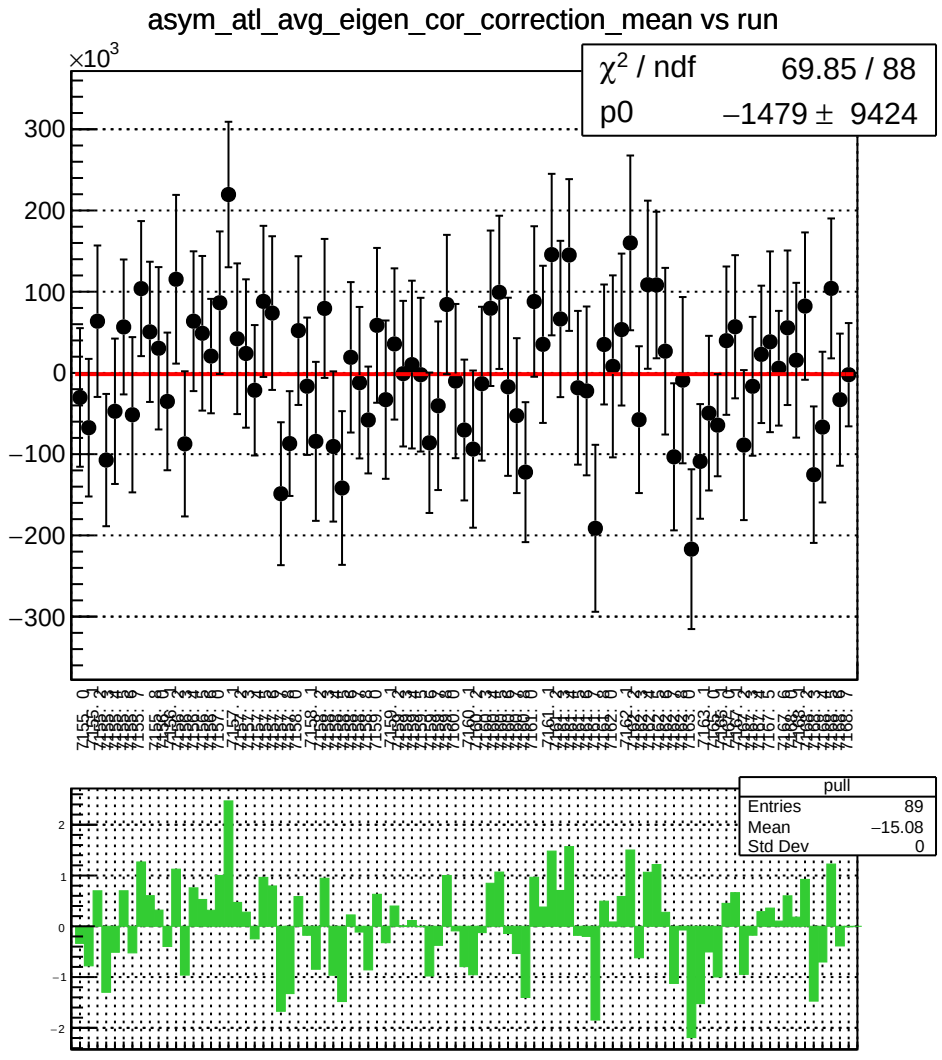

pull1D
Entries 89
Mean 0.02315
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

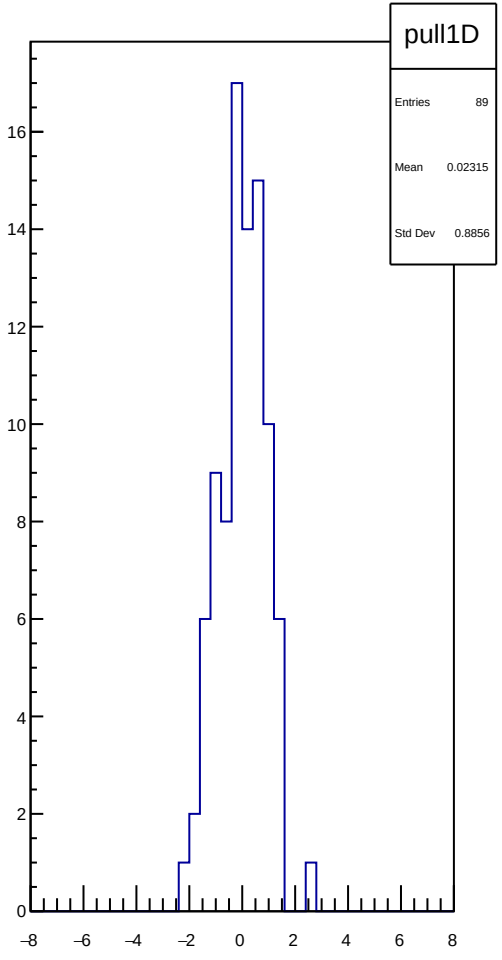

asym_atl_avg_cor_correction_rms vs run
χ^2 / ndf 8930 / 88
p0 8742 ± 6.664
11000
10500
10000
9500
9000
8500
8000
7500

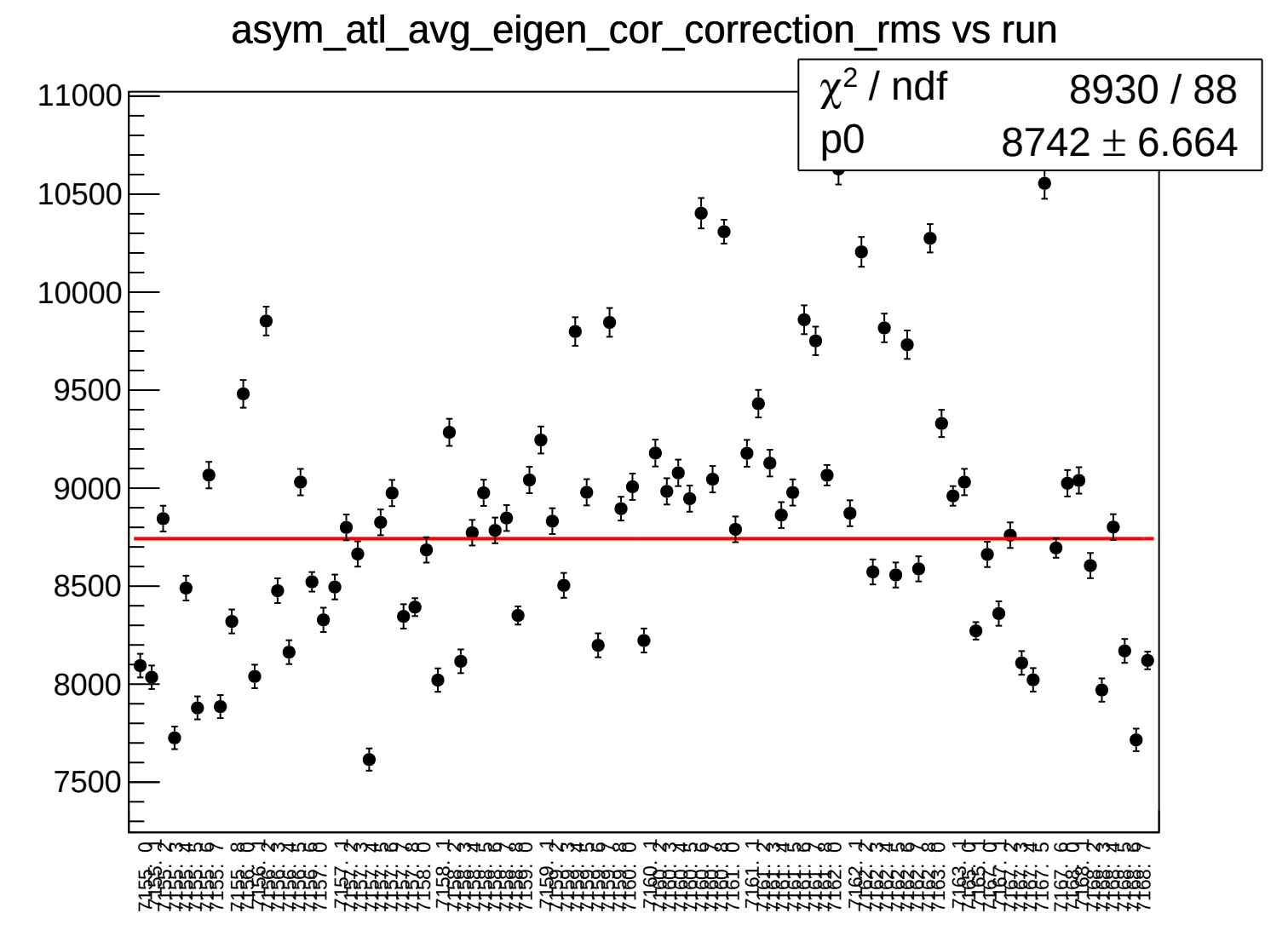

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 104.9 / 88
p0 −570.1± 1859
pull
Entries 89
Mean −91.6
Std Dev 171.3

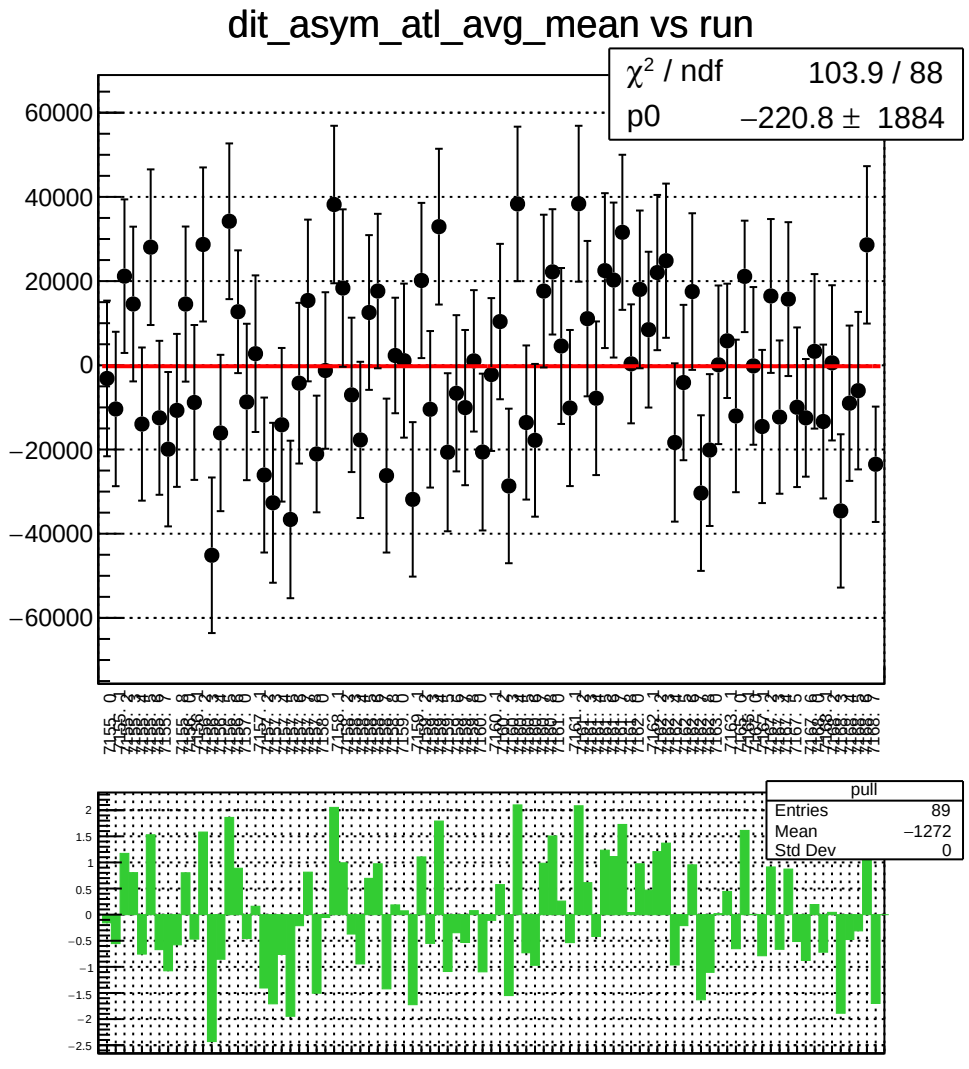

pull1D
Entries 89
Mean −0.001839
Std Dev 1.086

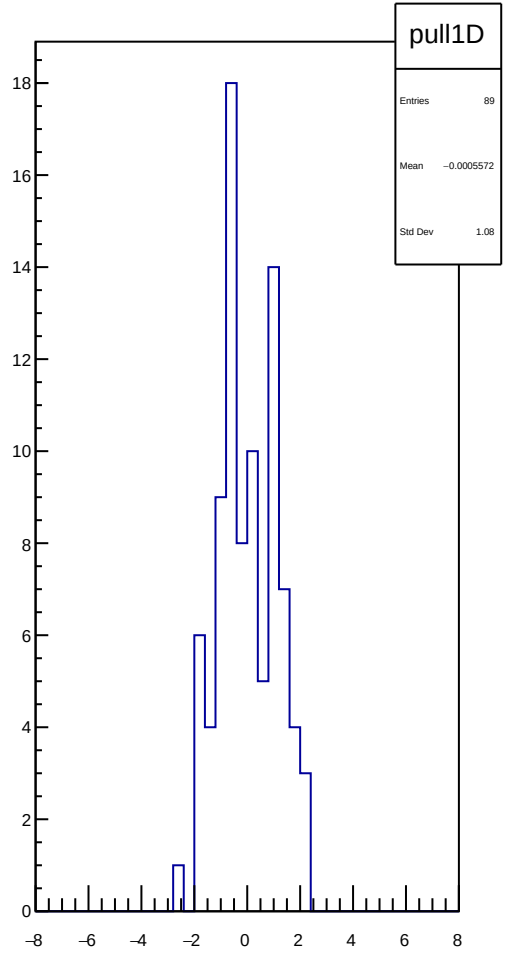

eigen_cor_asym_atl_avg_rms vs run
χ^2 / ndf 147.3 / 88
p0 1729 ± 1.314
1800
1780
1760
1740
1720
1700
1680

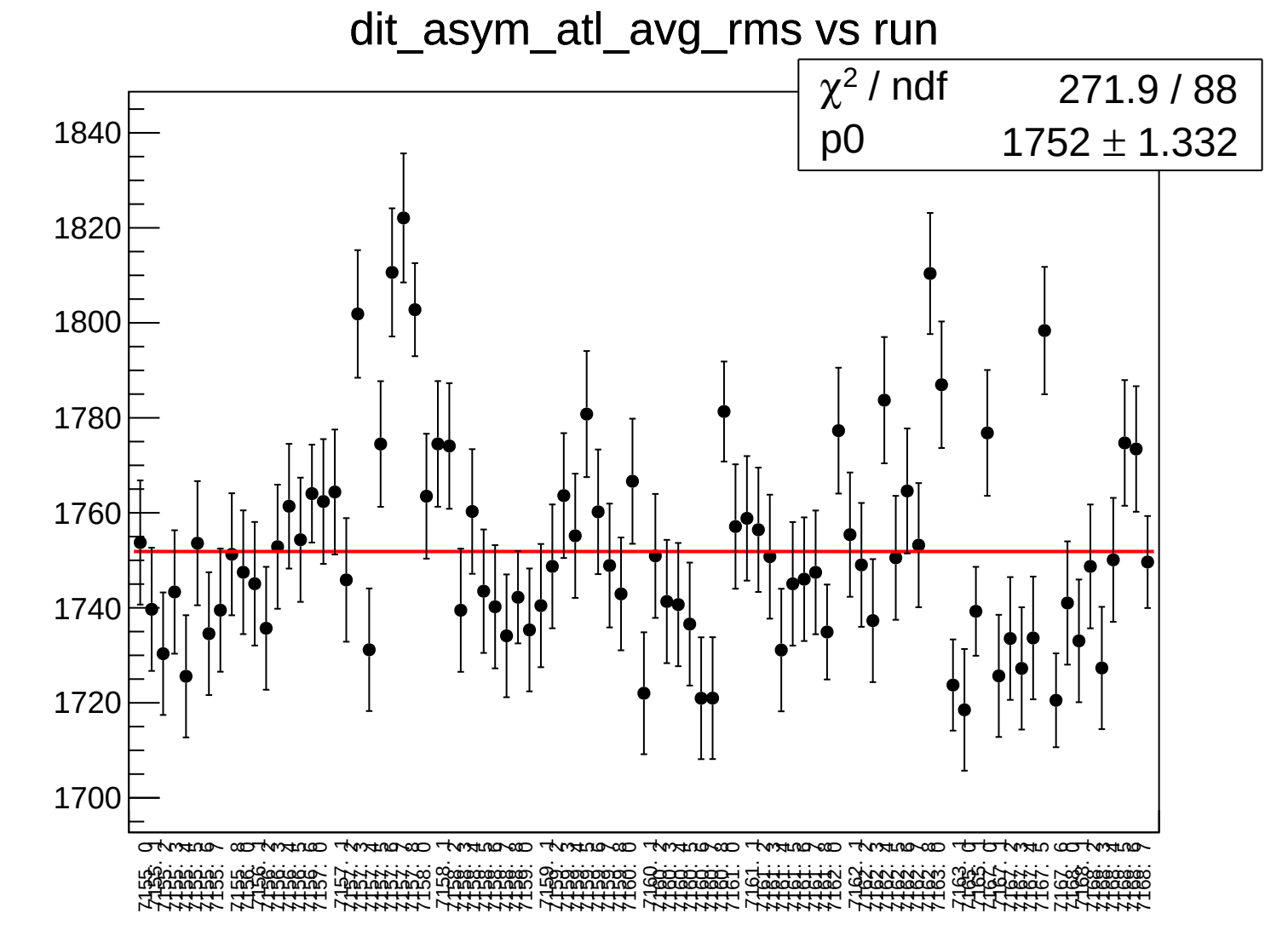

asym_atl_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.85 / 88
p0 −1479 ± 9424
×10³
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.08
Std Dev 0
2
1
0
−1
−2

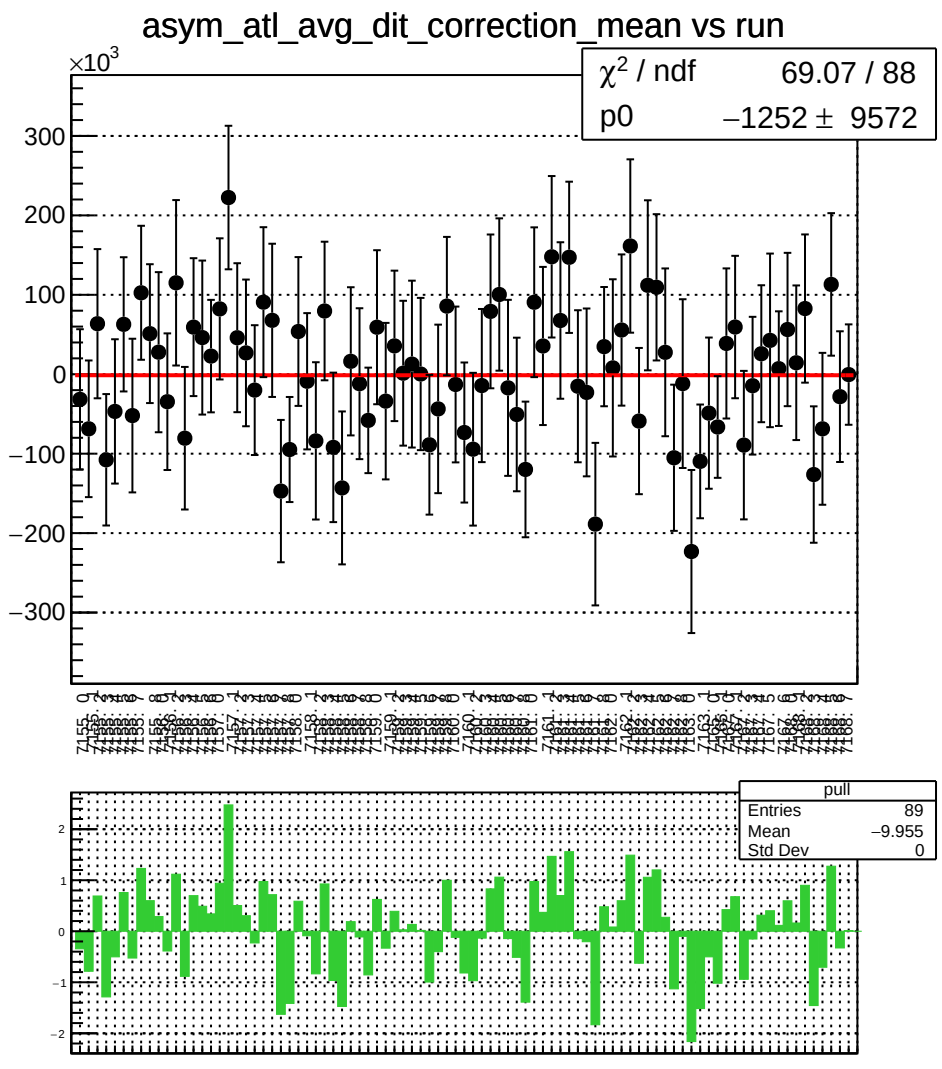

pull1D
Entries 89
Mean 0.02315
Std Dev 0.8856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

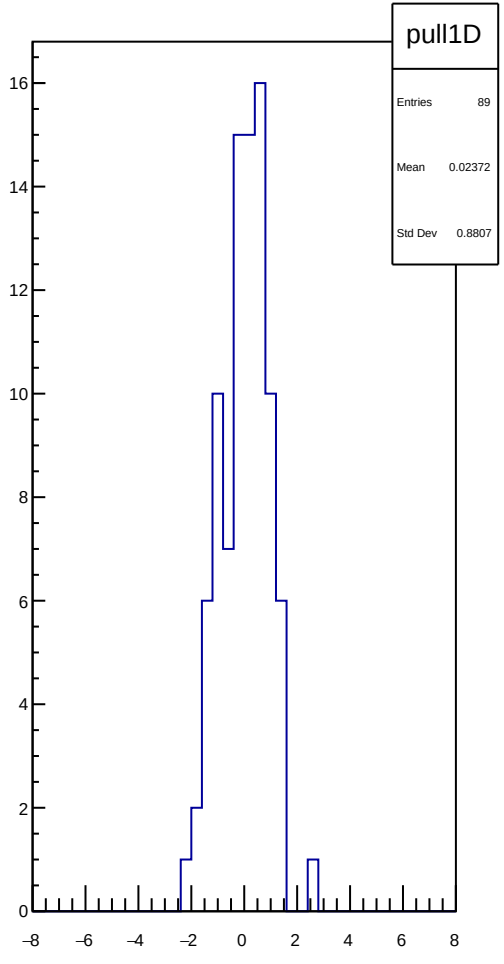

asym_atl_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8930 / 88
p0 8742 ± 6.664
11000
10500
10000
9500
9000
8500
8000
7500

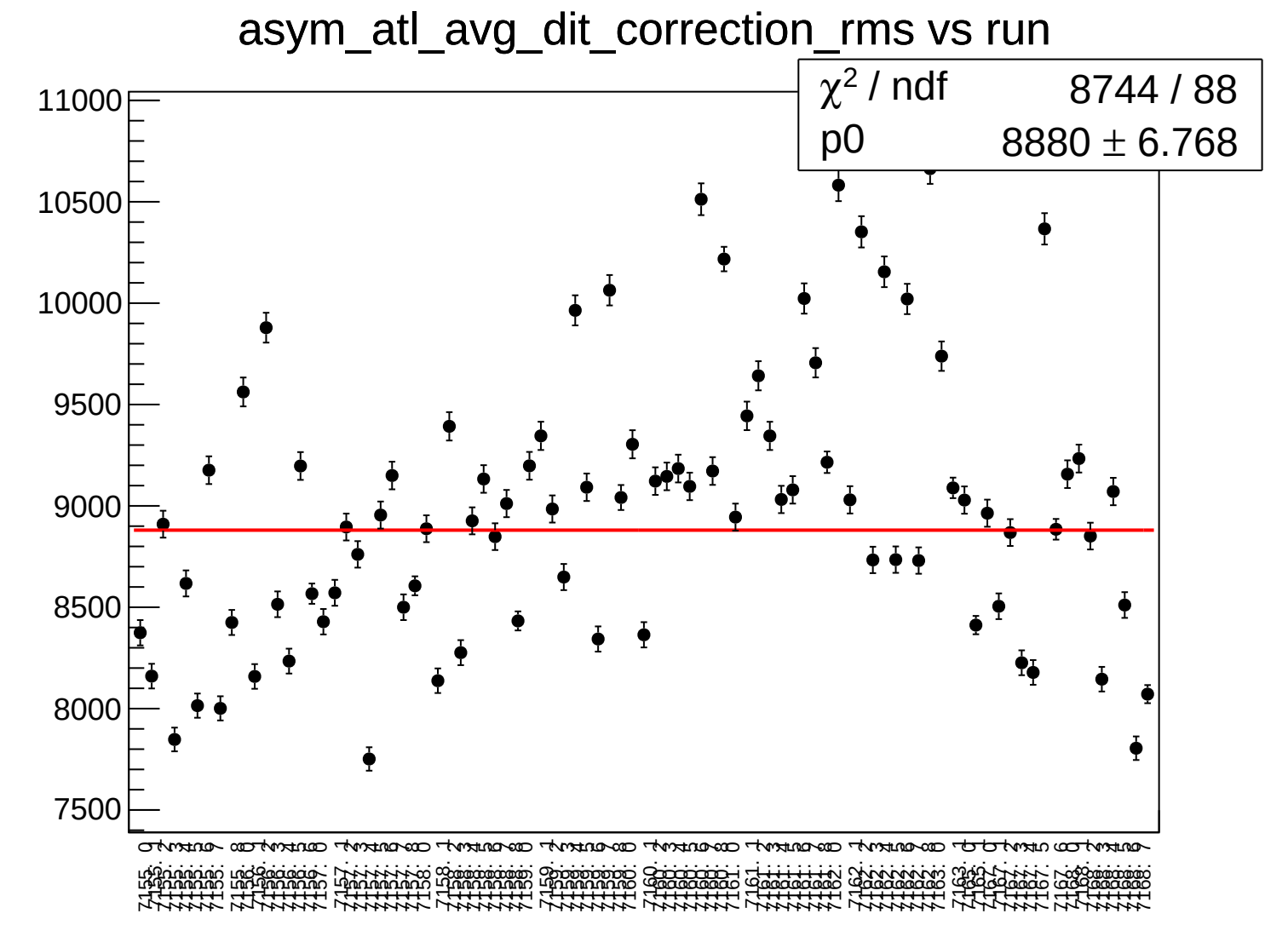

dit_asym_atl_avg_mean vs run
χ² / ndf 103.9 / 88
p0 −220.8 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1272
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

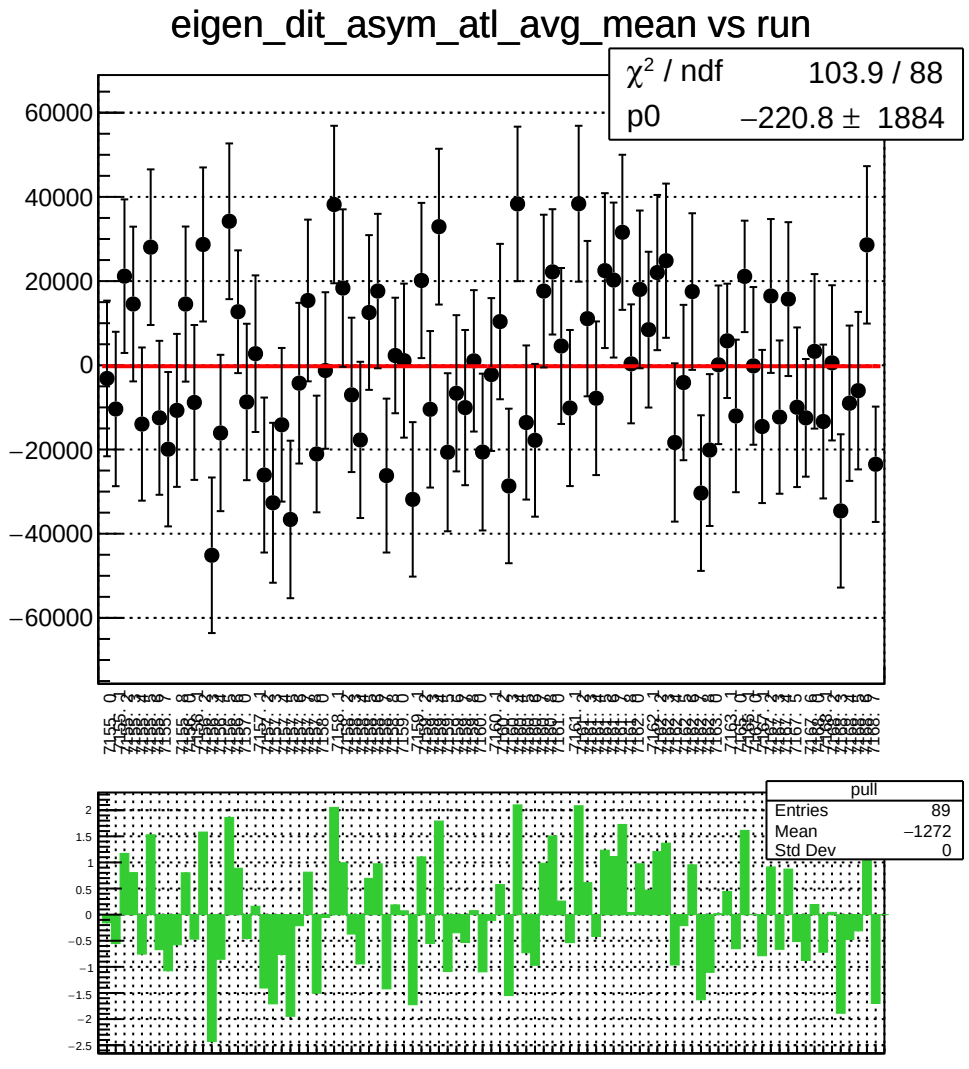

pull1D
Entries 89
Mean −0.0005572
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

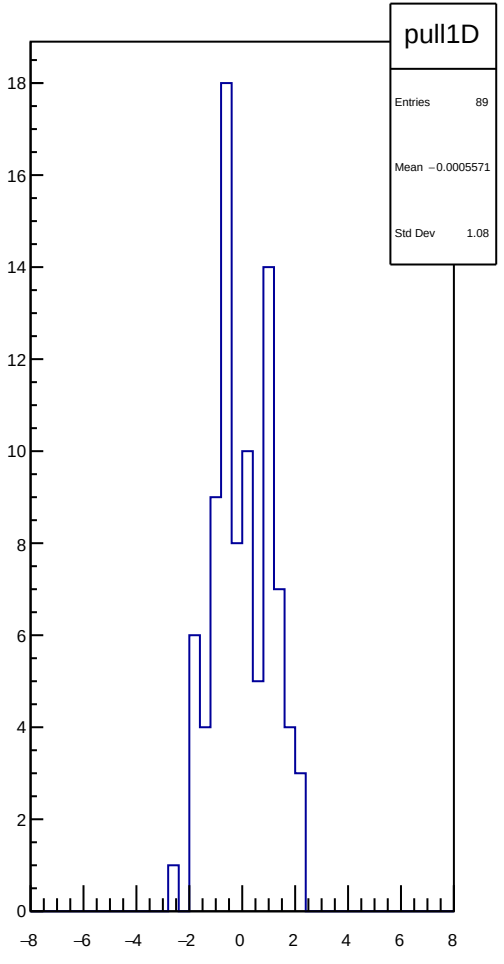

dit_asym_atl_avg_rms vs run
χ² / ndf 271.9 / 88
p0 1752 ± 1.332
1840
1820
1800
1780
1760
1740
1720
1700

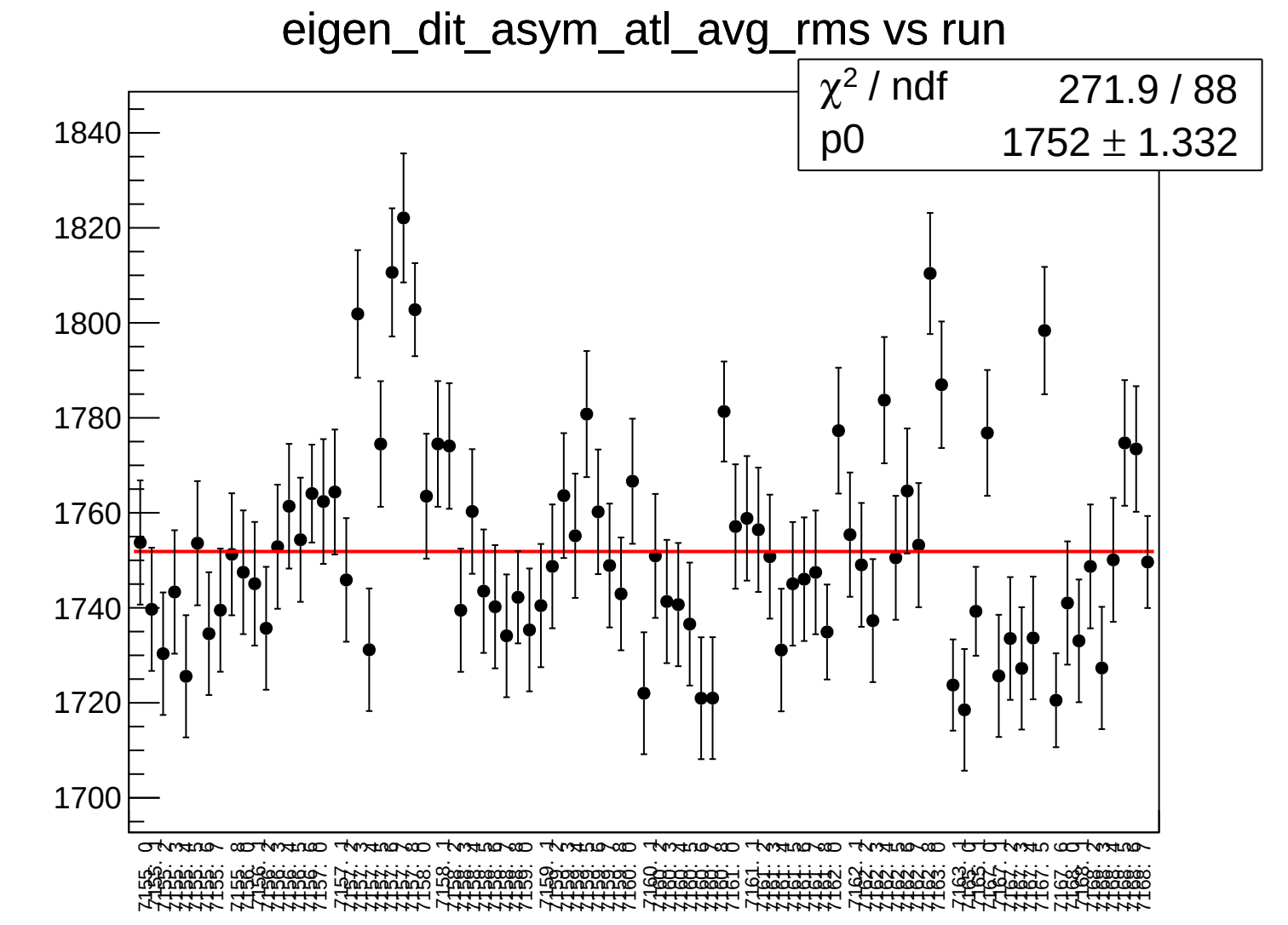

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.07 / 88
p0 −1252 ± 9572
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.955
Std Dev 0
2
1
0
−1
−2

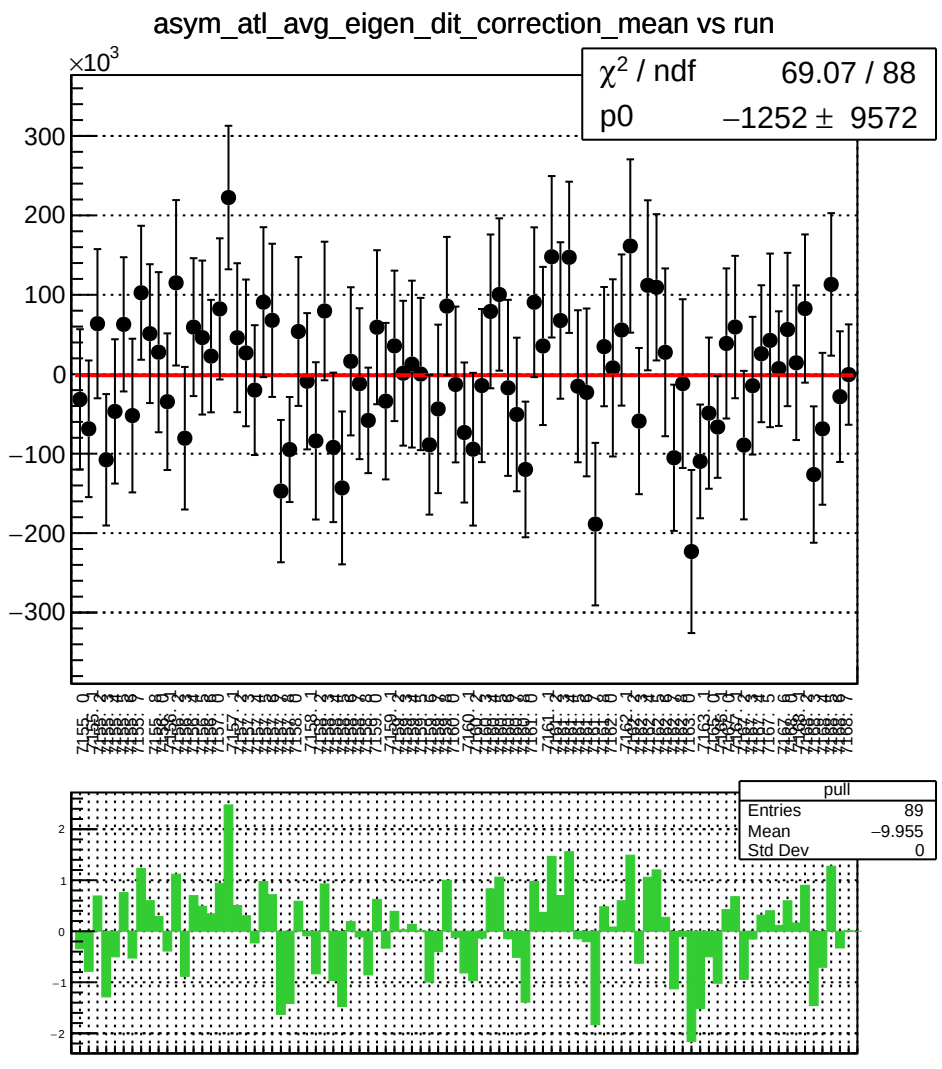

pull1D
Entries 89
Mean 0.02372
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

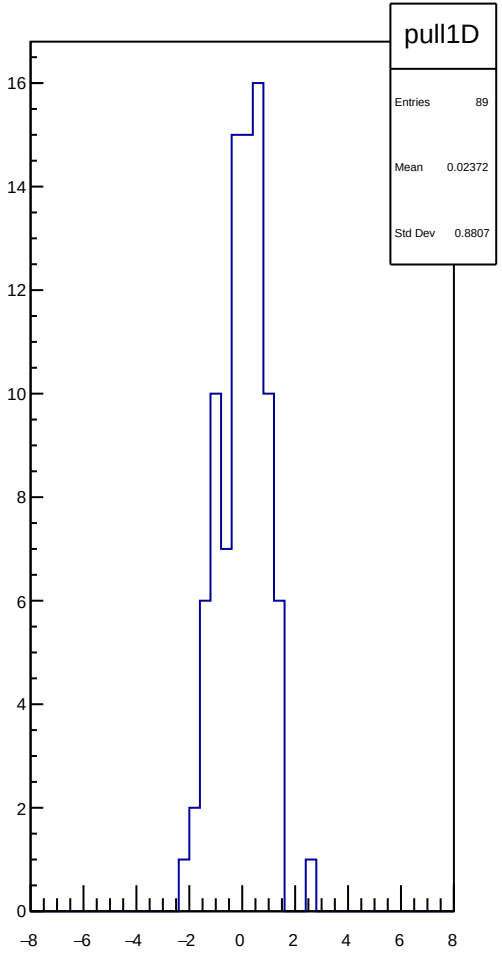

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 8744 / 88
p0 8880 ± 6.768
11000
10500
10000
9500
9000
8500
8000
7500

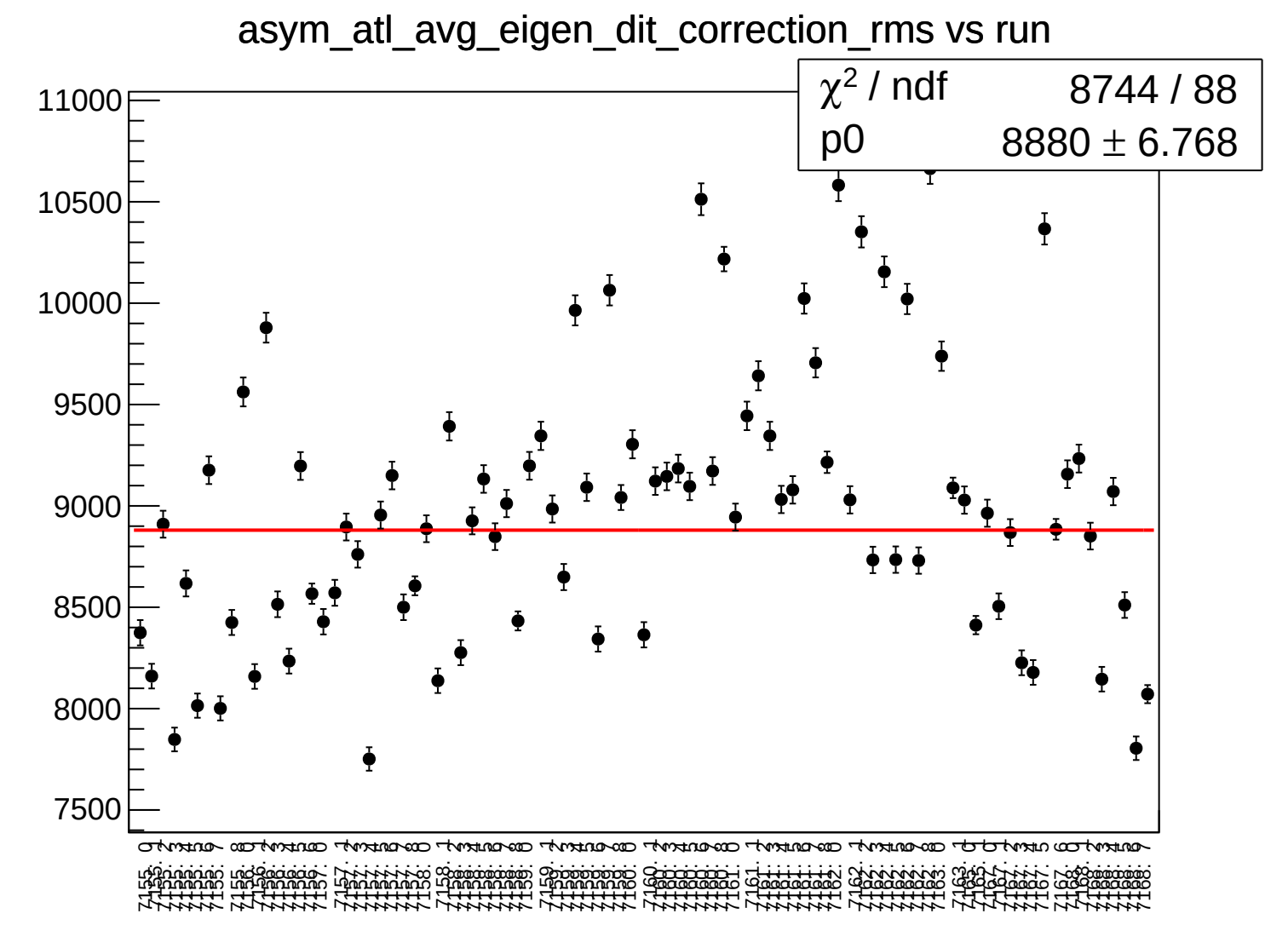

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 103.9 / 88
p0 −220.8 ± 1884
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1272
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

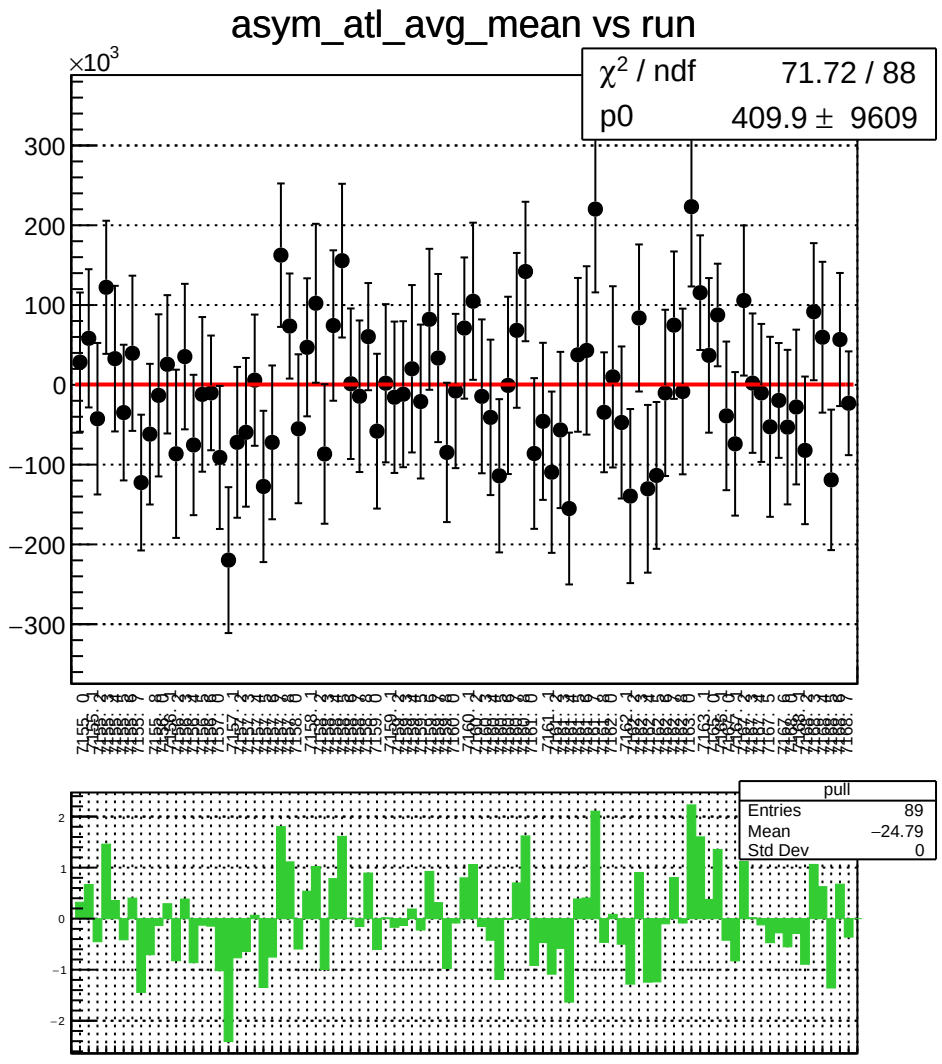

pull1D
Entries 89
Mean −0.0005571
Std Dev 1.08
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

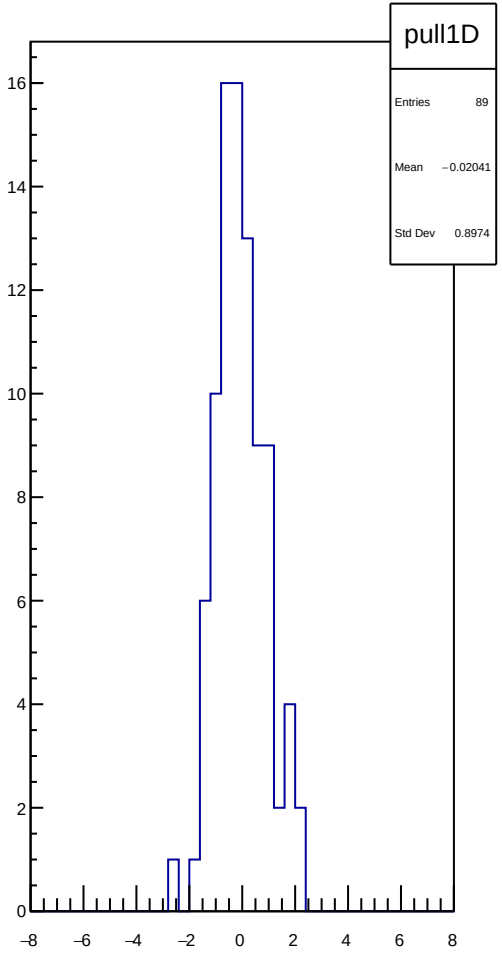

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 271.9 / 88
p0 1752 ± 1.332
1840
1820
1800
1780
1760
1740
1720
1700

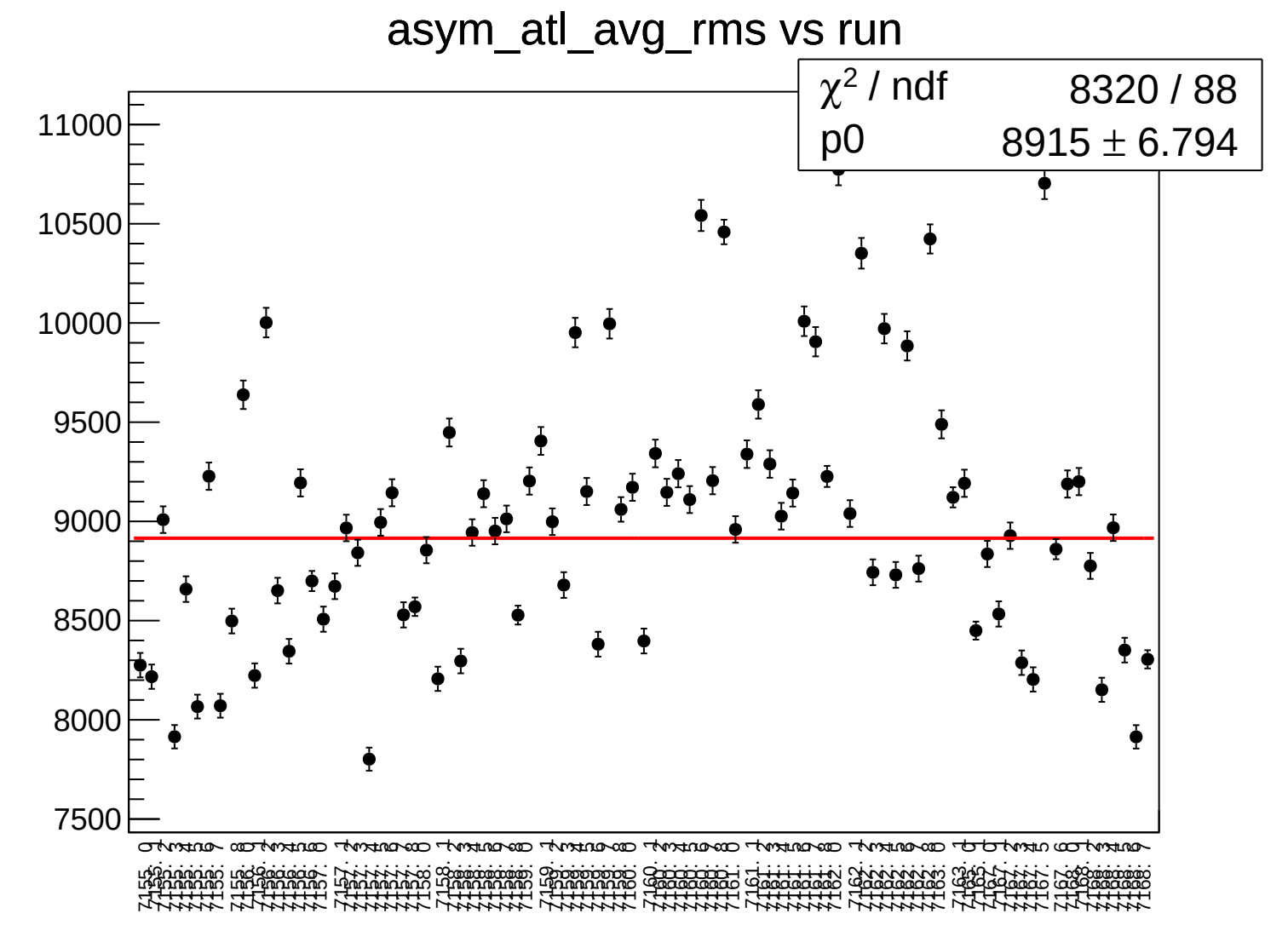

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.07 / 88
p0 −1252 ± 9572
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.955
Std Dev 0
2
1
0
−1
−2

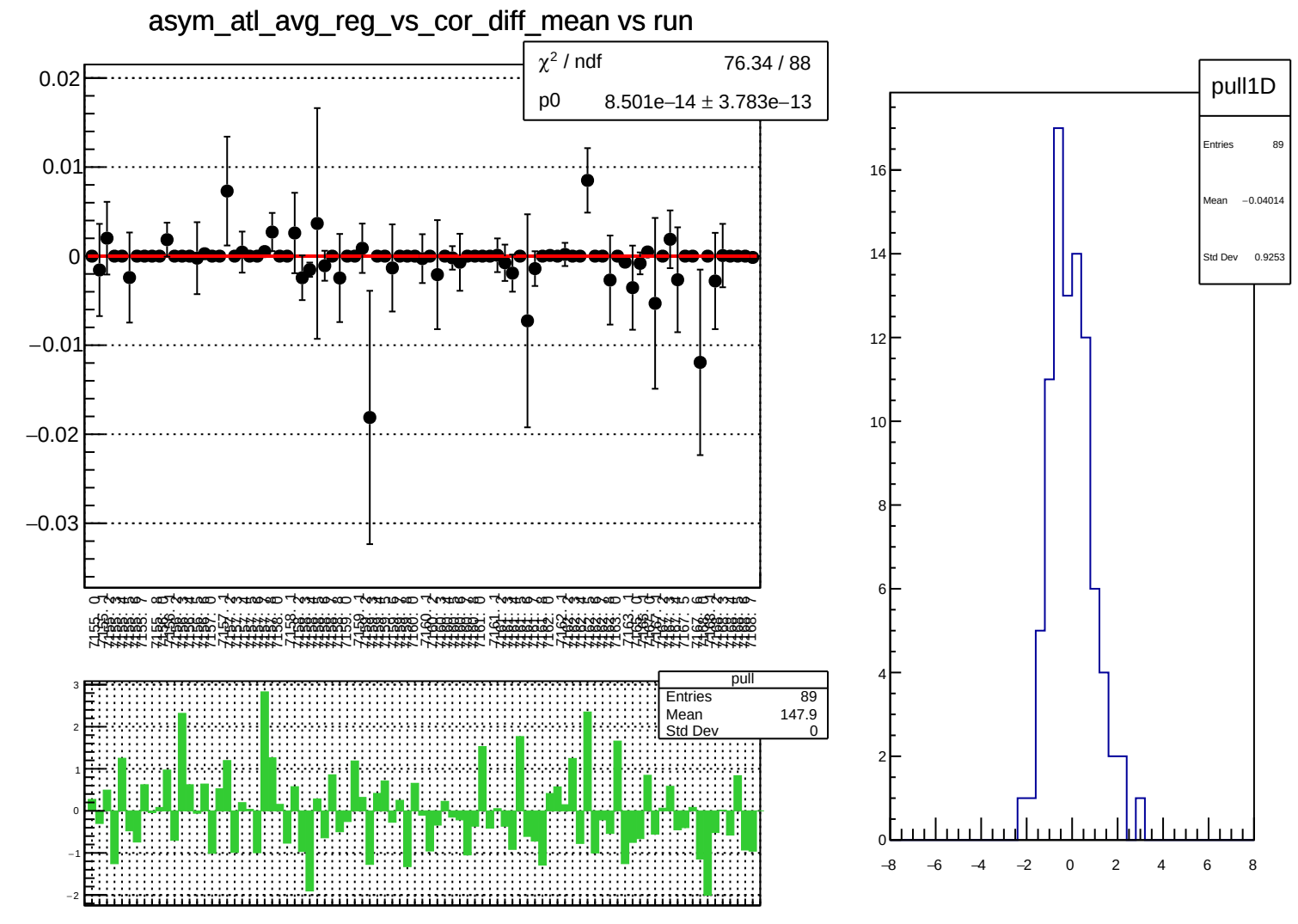

pull1D
Entries 89
Mean 0.02372
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

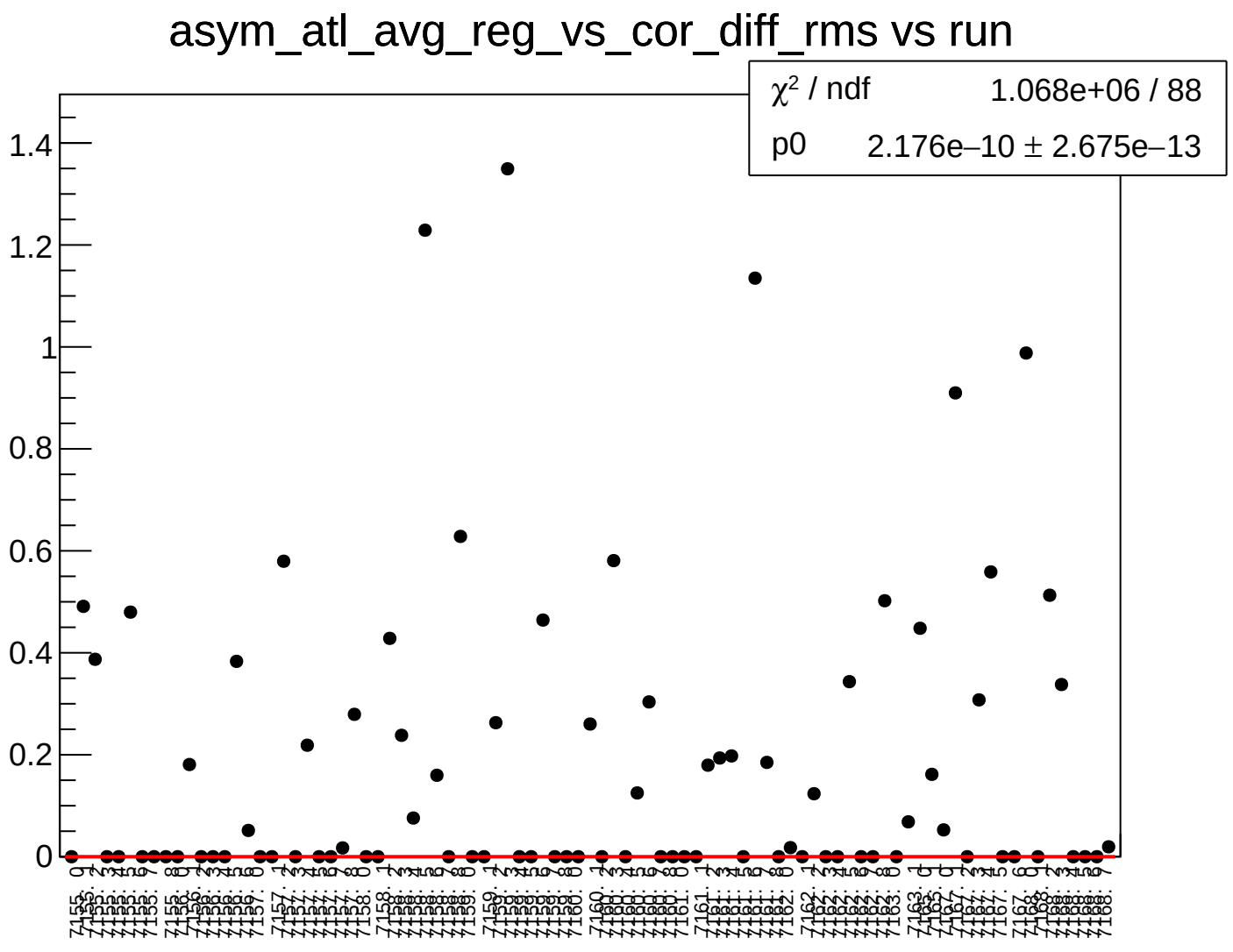

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 8744 / 88
p0 8880 ± 6.768
11000
10500
10000
9500
9000
8500
8000
7500

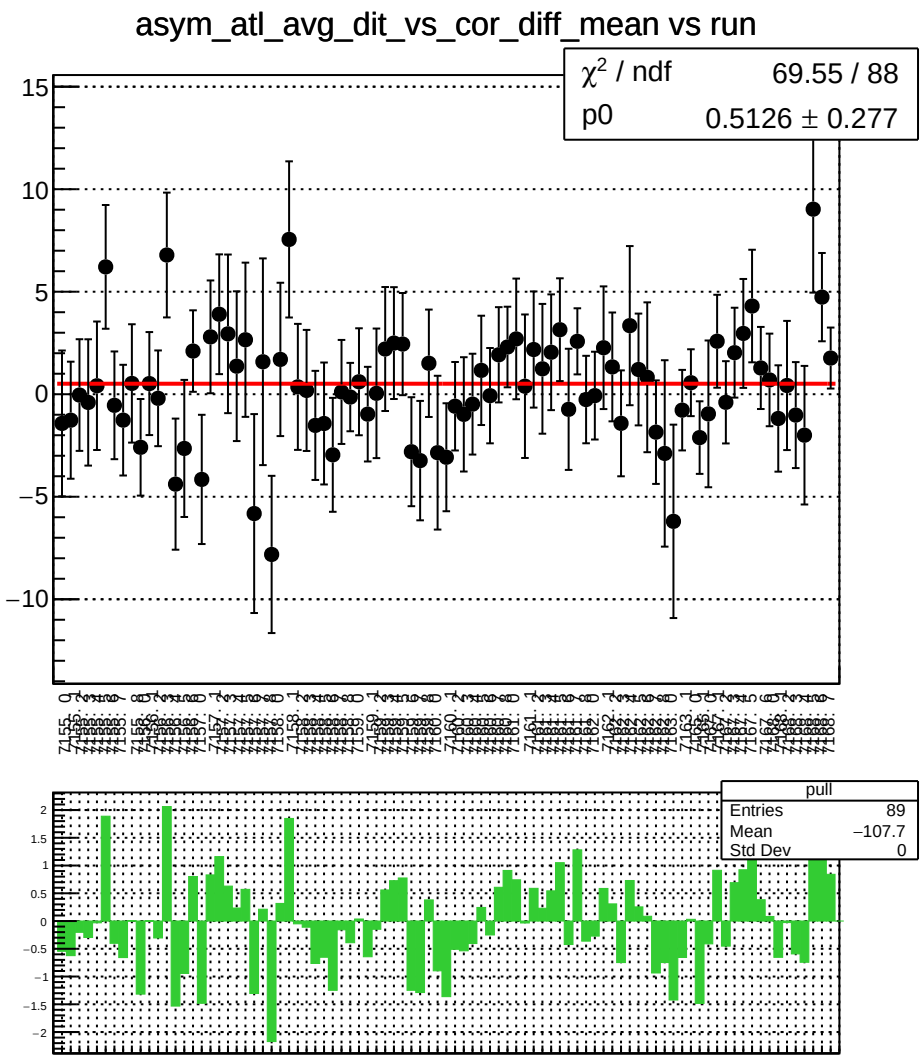

asym_atl_avg_mean vs run
×10^3
χ² / ndf 71.72 / 88
p0 409.9 ± 9609
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −24.79
Std Dev 0
2
1
0
−1
−2

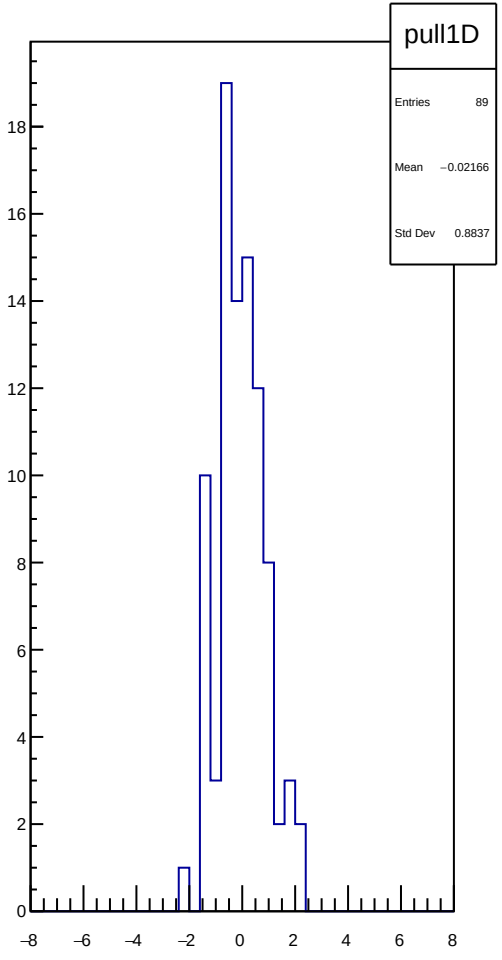

pull1D
Entries 89
Mean −0.02041
Std Dev 0.8974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

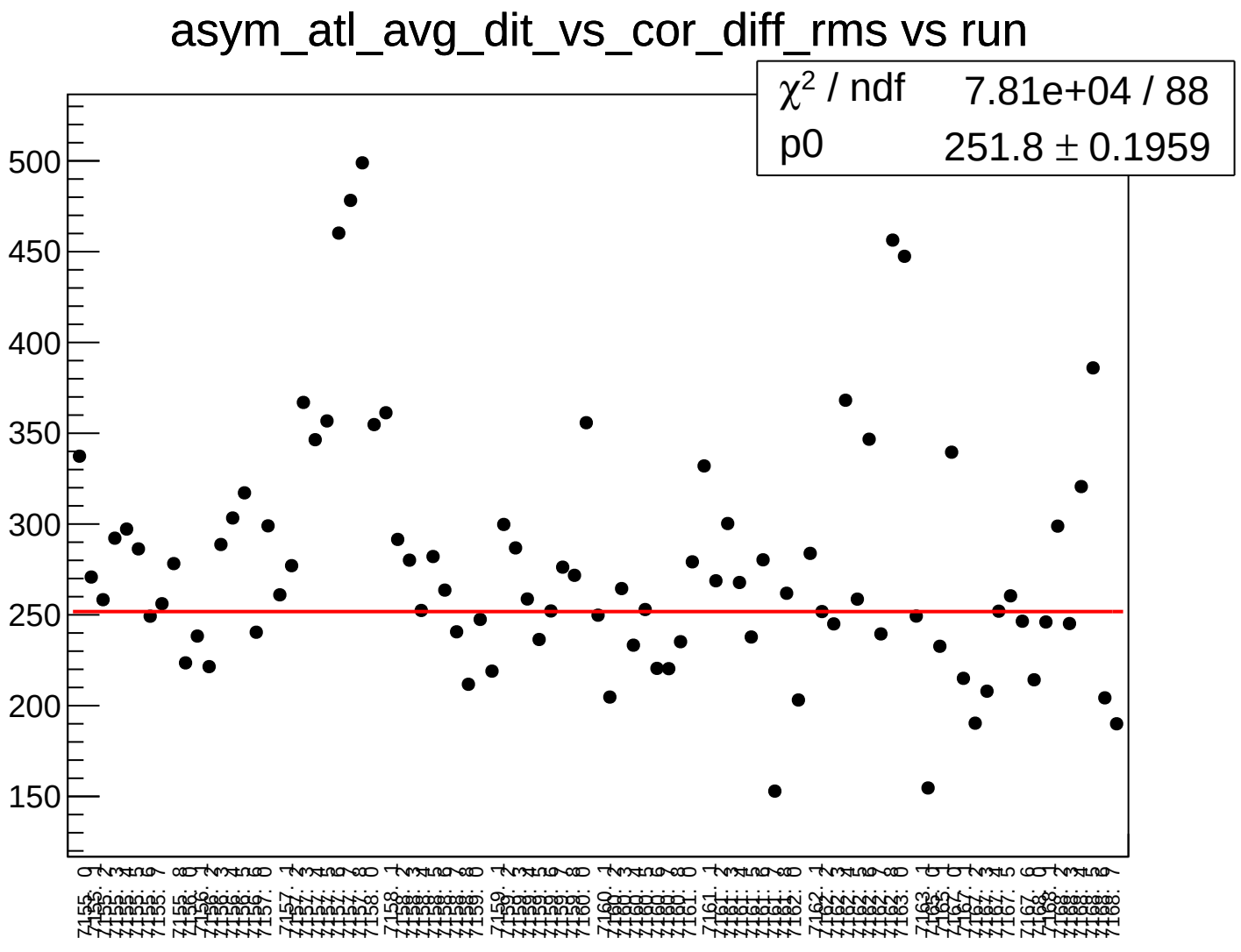

asym_atl_avg_rms vs run
χ² / ndf 8320 / 88
p0 8915 ± 6.794
11000
10500
10000
9500
9000
8500
8000
7500

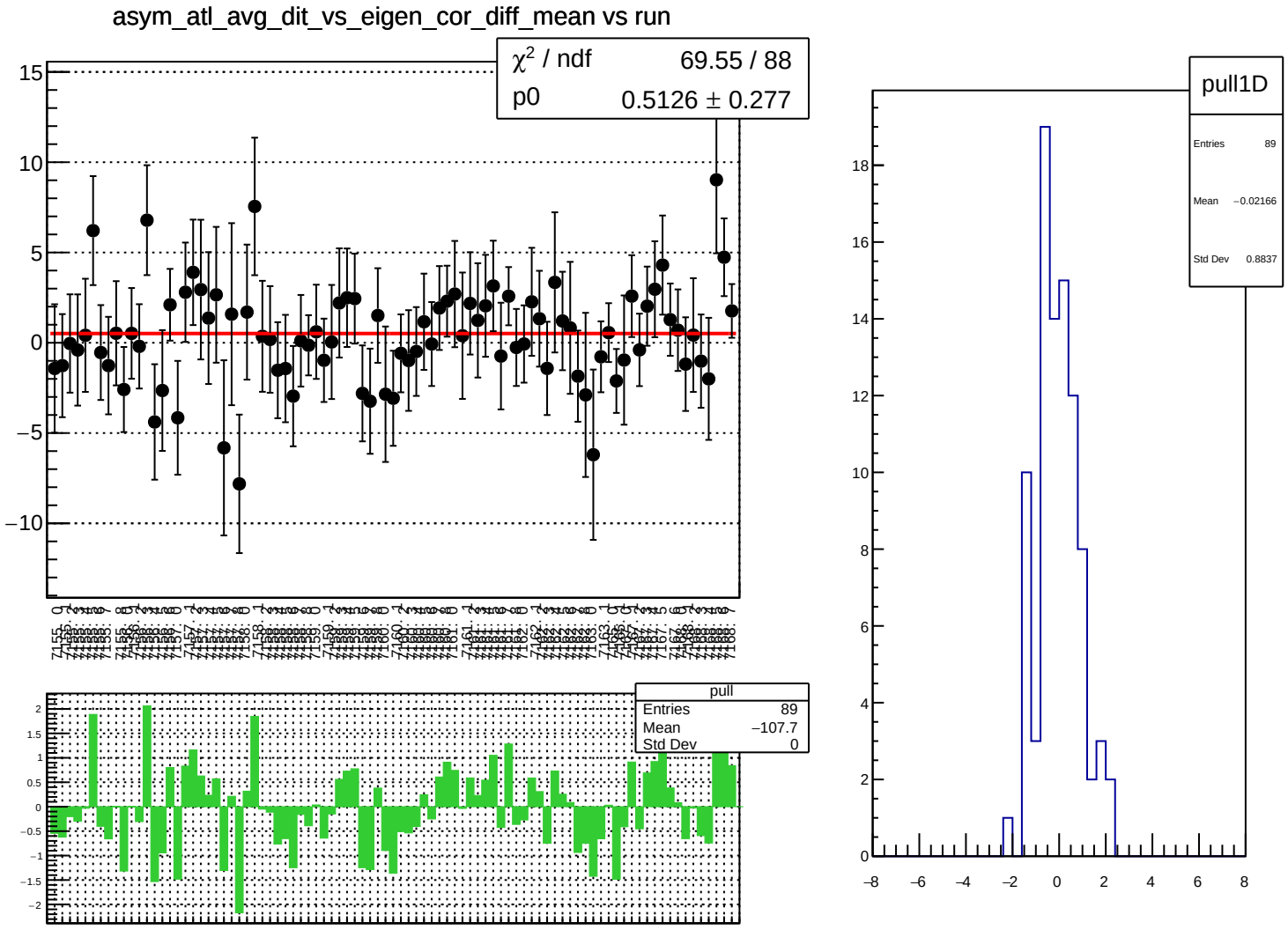

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 76.34 / 88
p0 8.501e−14 ± 3.783e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 147.9
Std Dev 0
pull1D
Entries 89
Mean −0.04014
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

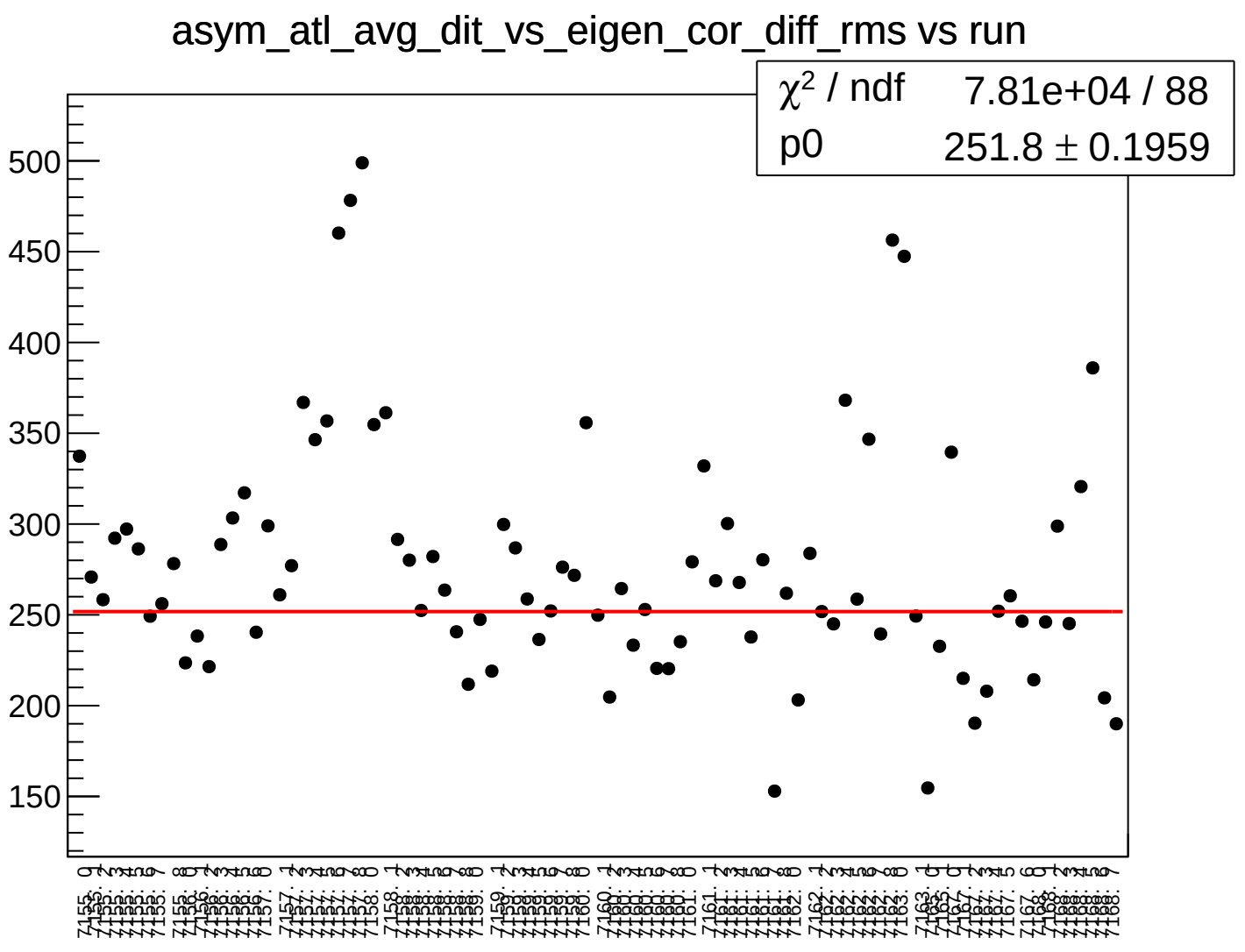

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.068e+06 / 88
p0 2.176e−10 ± 2.675e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

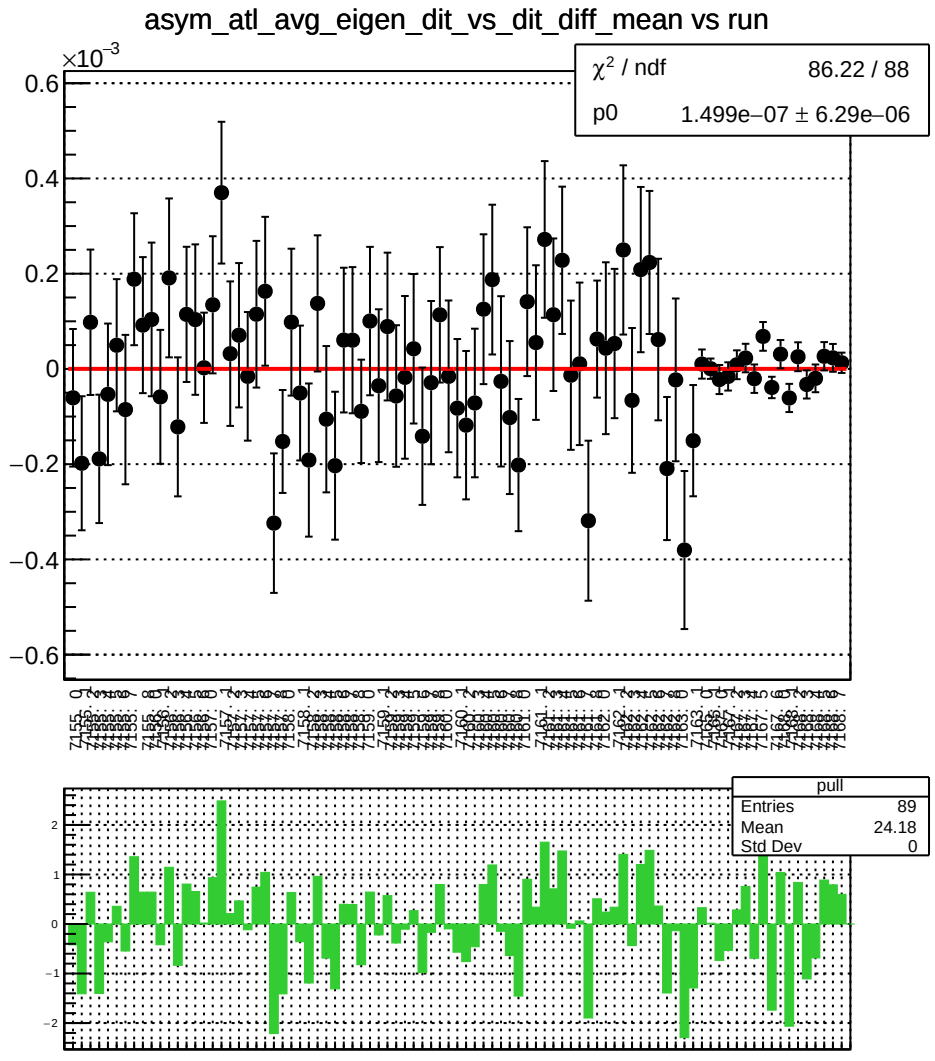

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.55 / 88
p0 0.5126 ± 0.277
pull
Entries 89
Mean −107.7
Std Dev 0

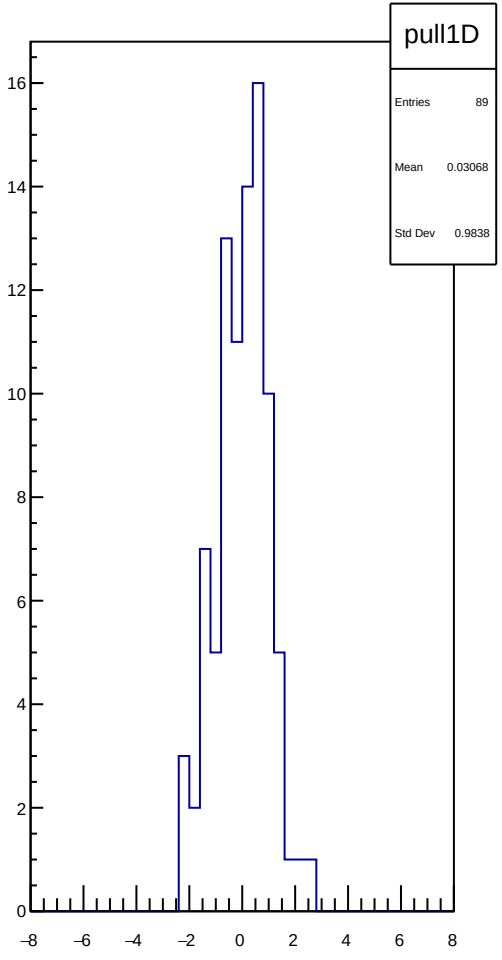

pull1D
Entries 89
Mean −0.02166
Std Dev 0.8837

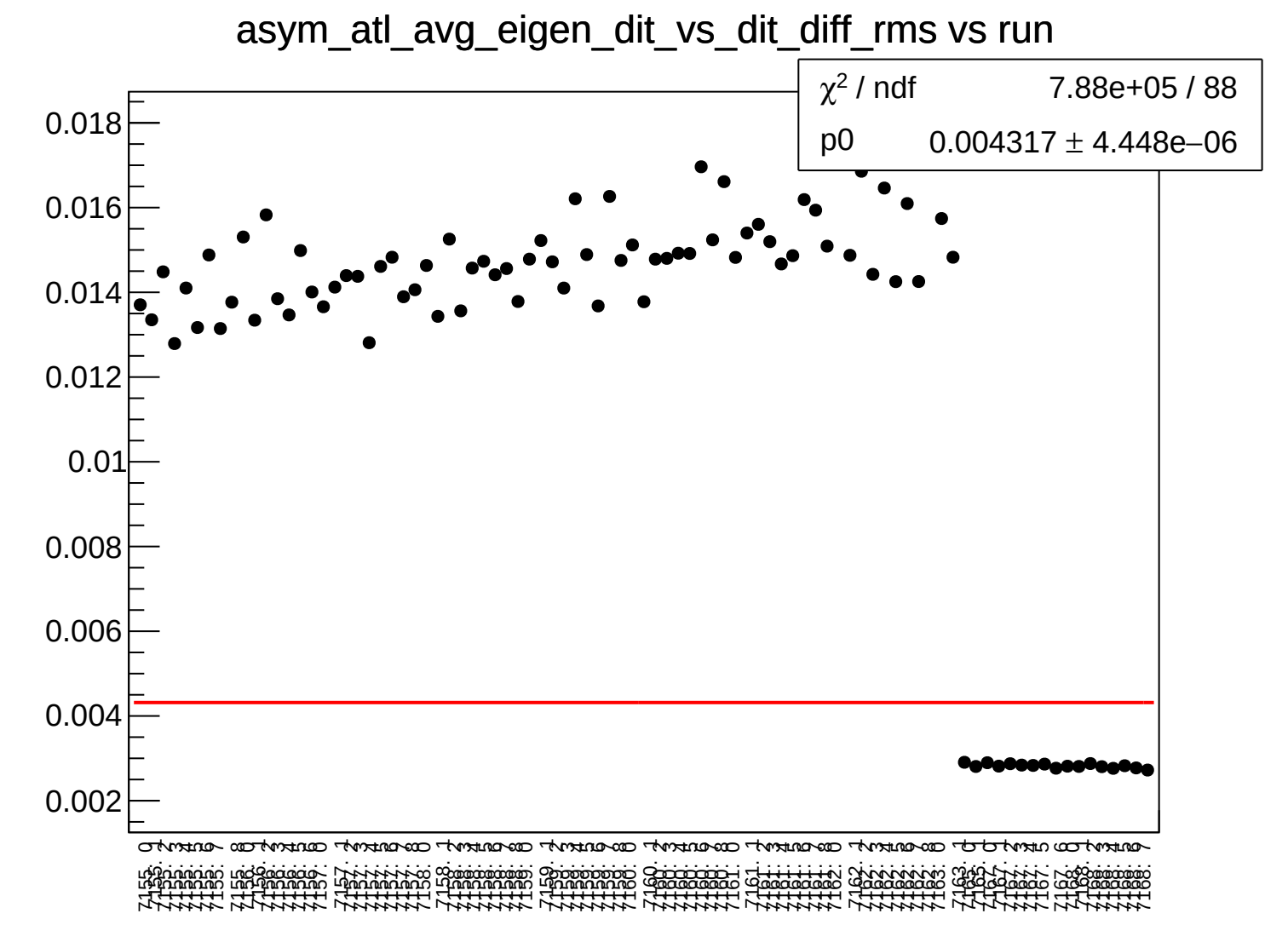

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.81e+04 / 88
p0 251.8 ± 0.1959
500
450
400
350
300
250
200
150

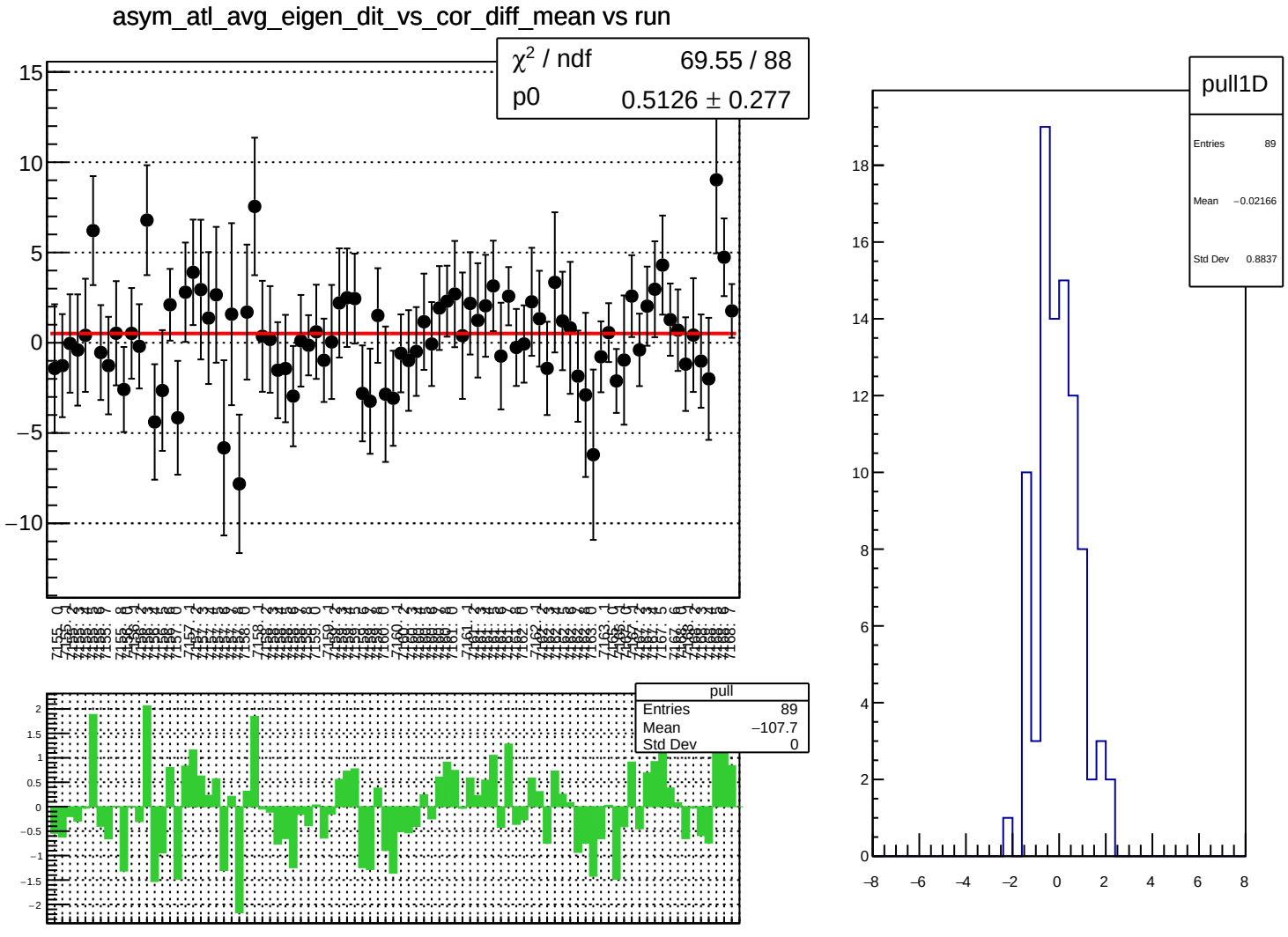

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.55 / 88
p0 0.5126 ± 0.277
pull
Entries 89
Mean −107.7
Std Dev 0
pull1D
Entries 89
Mean −0.02166
Std Dev 0.8837

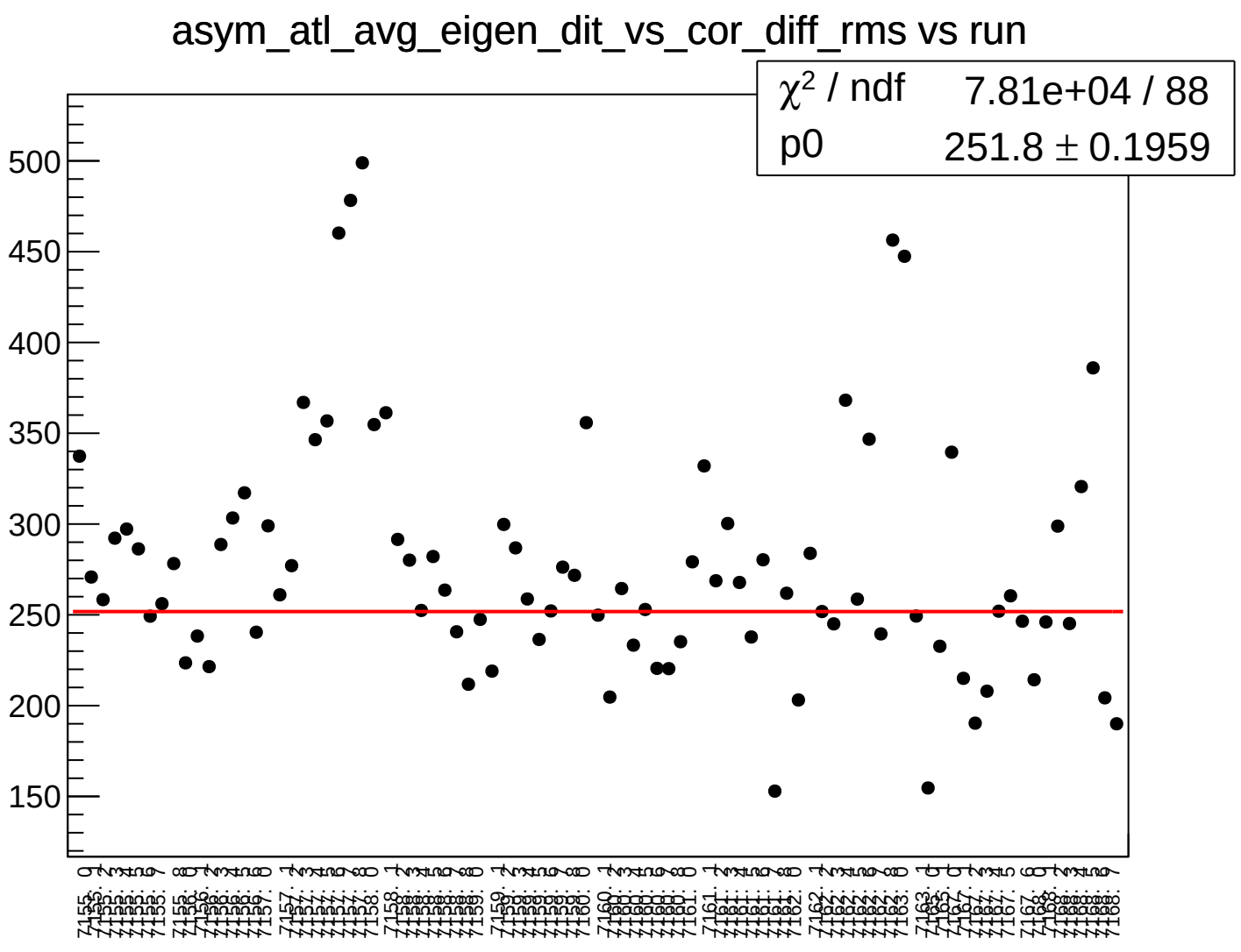

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.81e+04 / 88
p0 251.8 ± 0.1959
500
450
400
350
300
250
200
150

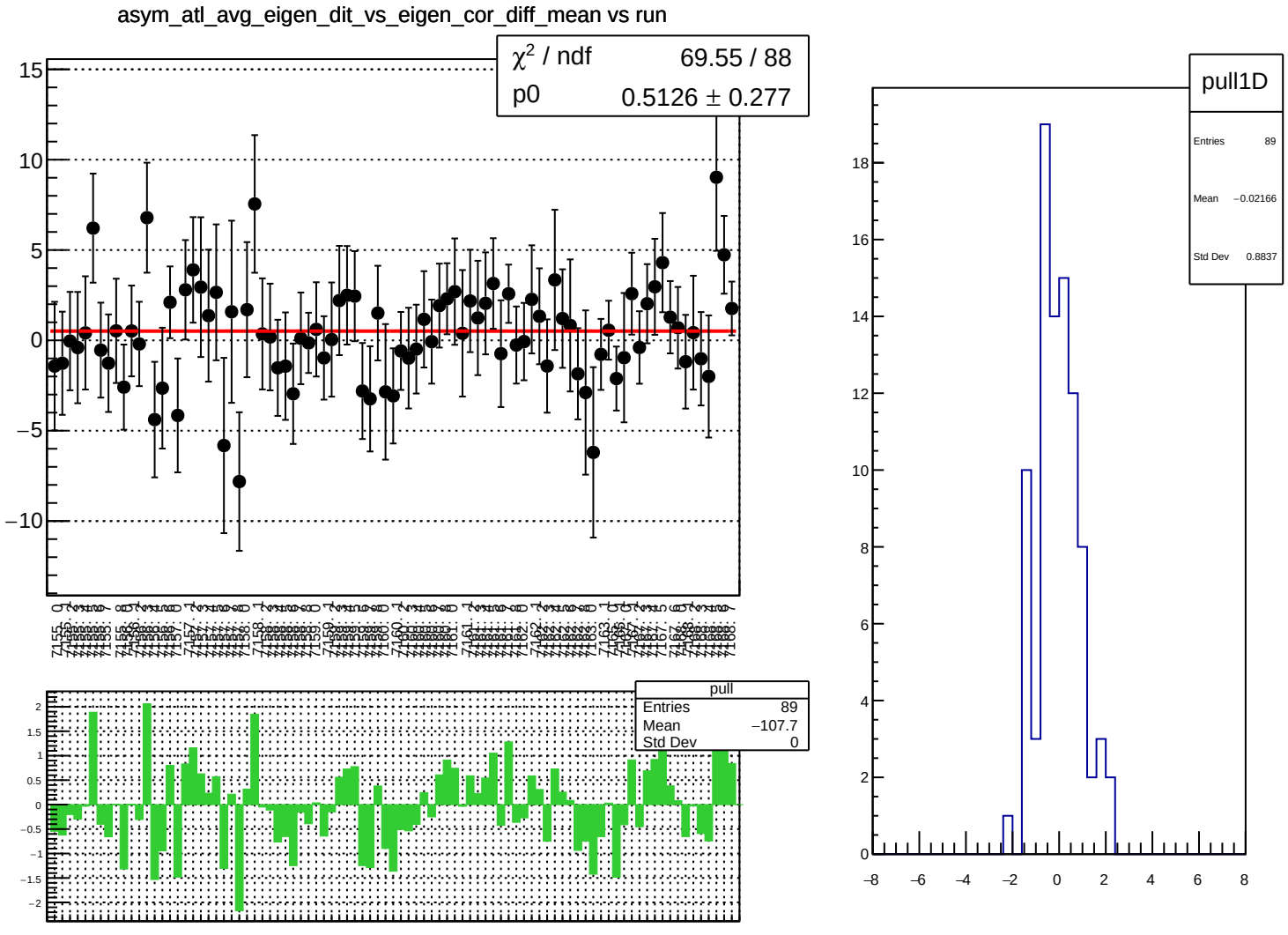

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.22 / 88
p0 1.499e−07 ± 6.29e−06
pull
Entries 89
Mean 24.18
Std Dev 0

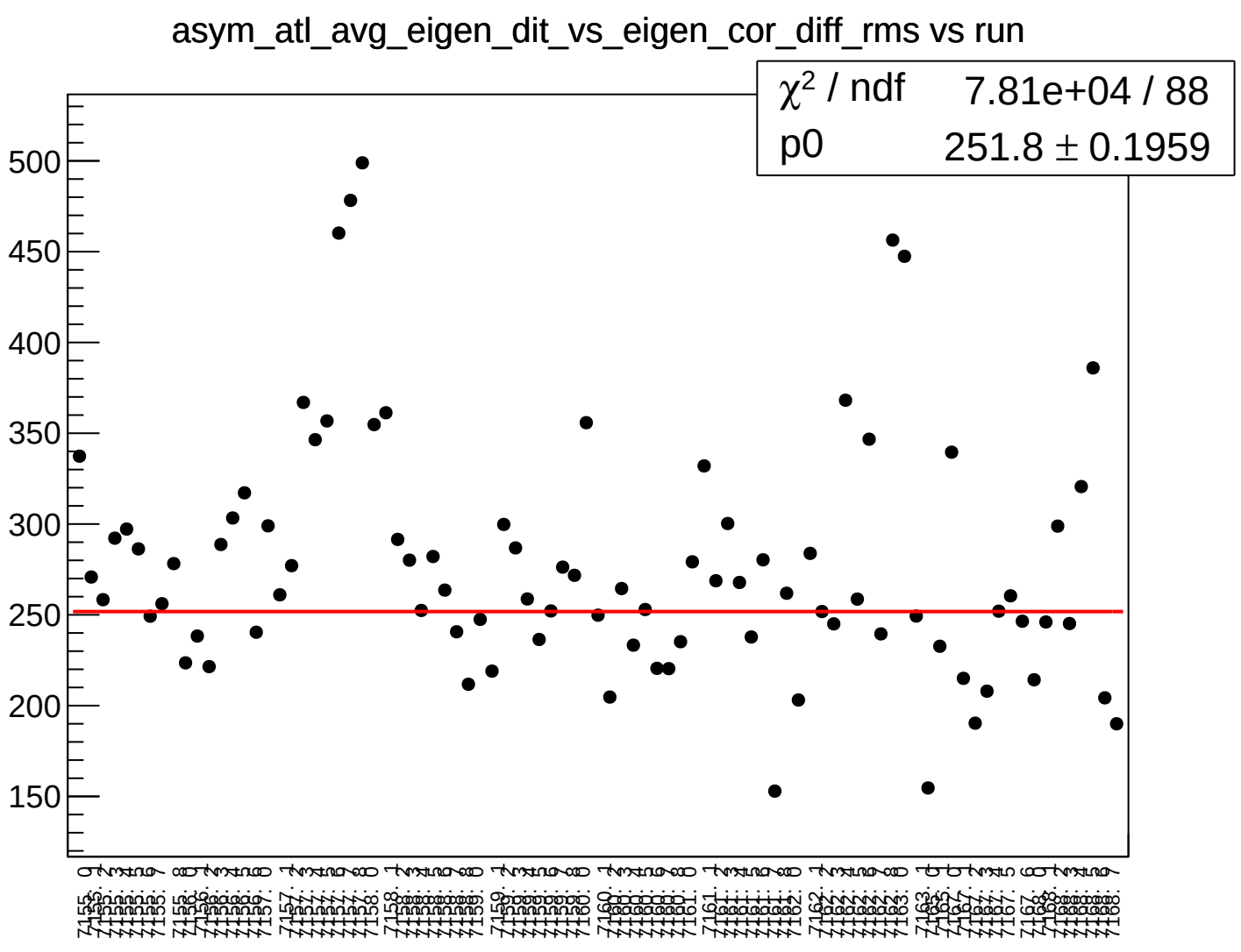

pull1D
Entries 89
Mean 0.03068
Std Dev 0.9838

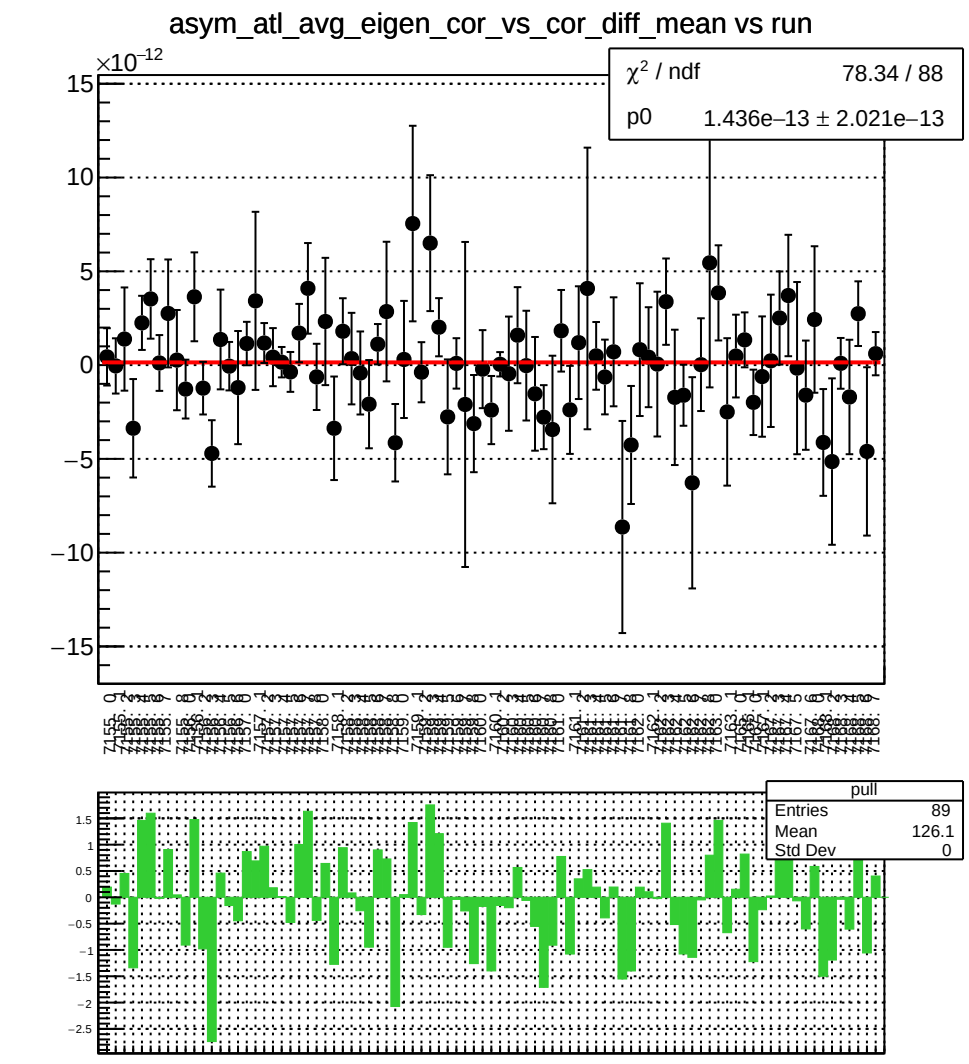

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.88e+05 / 88
p0 0.004317 ± 4.448e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

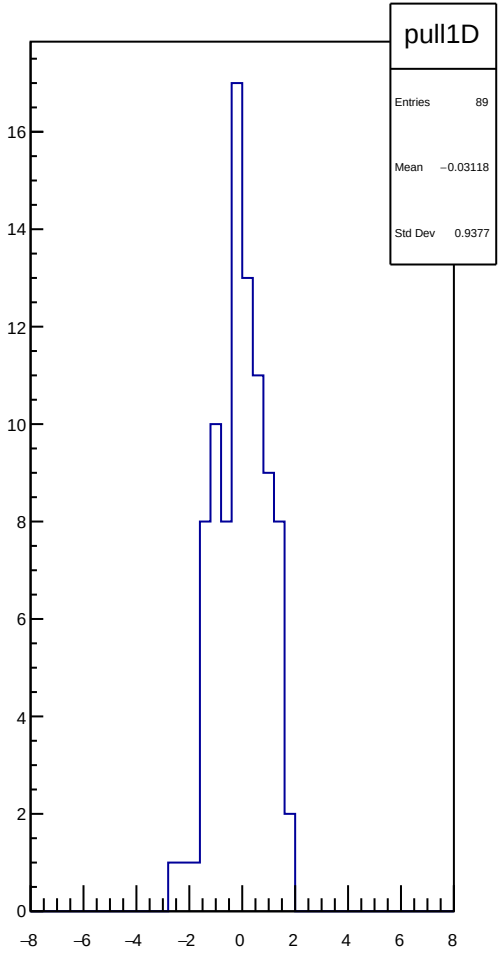

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.55 / 88
p0 0.5126 ± 0.277
pull
Entries 89
Mean −107.7
Std Dev 0
pull1D
Entries 89
Mean −0.02166
Std Dev 0.8837

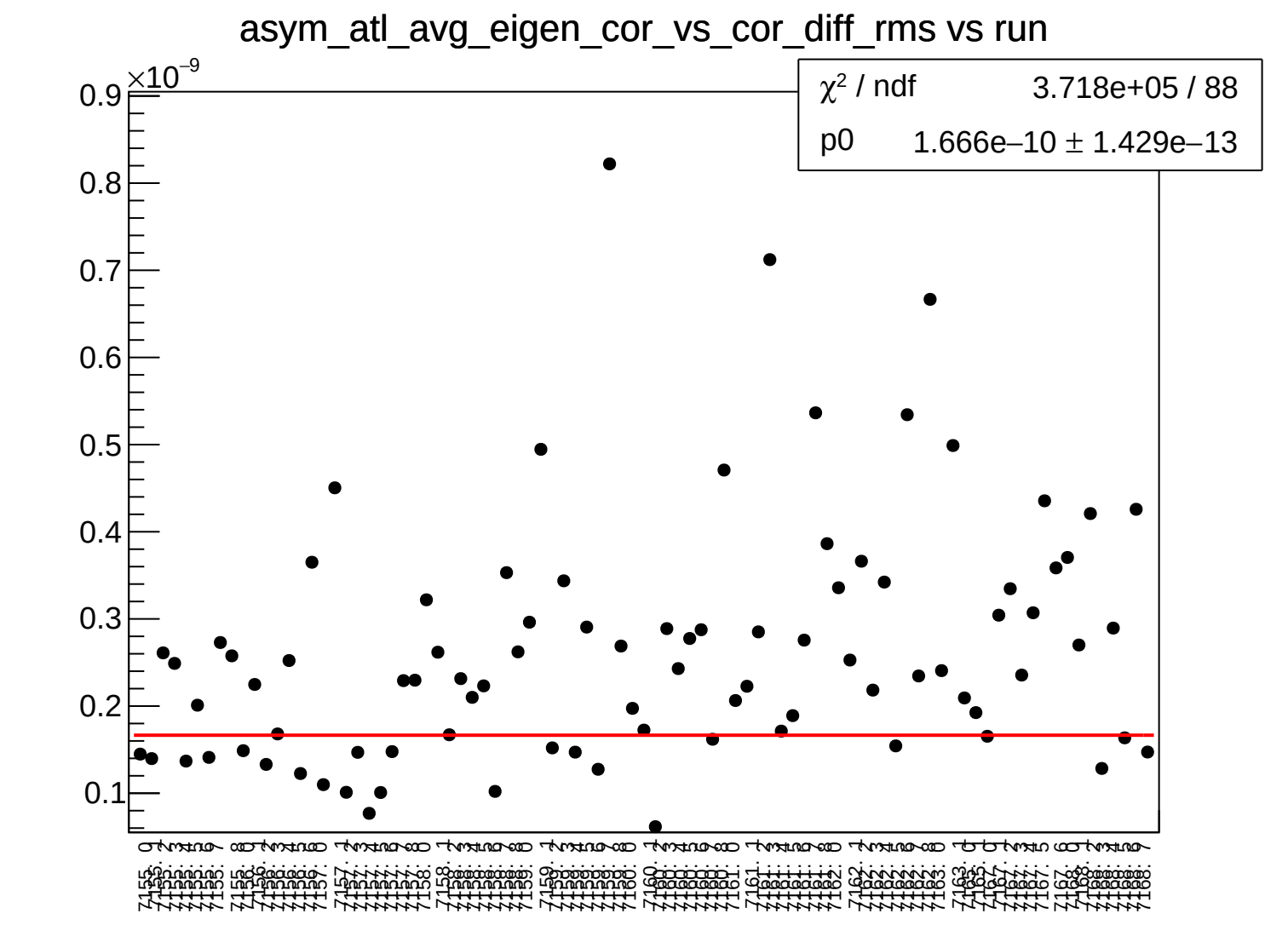

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.81e+04 / 88
p0 251.8 ± 0.1959
500
450
400
350
300
250
200
150

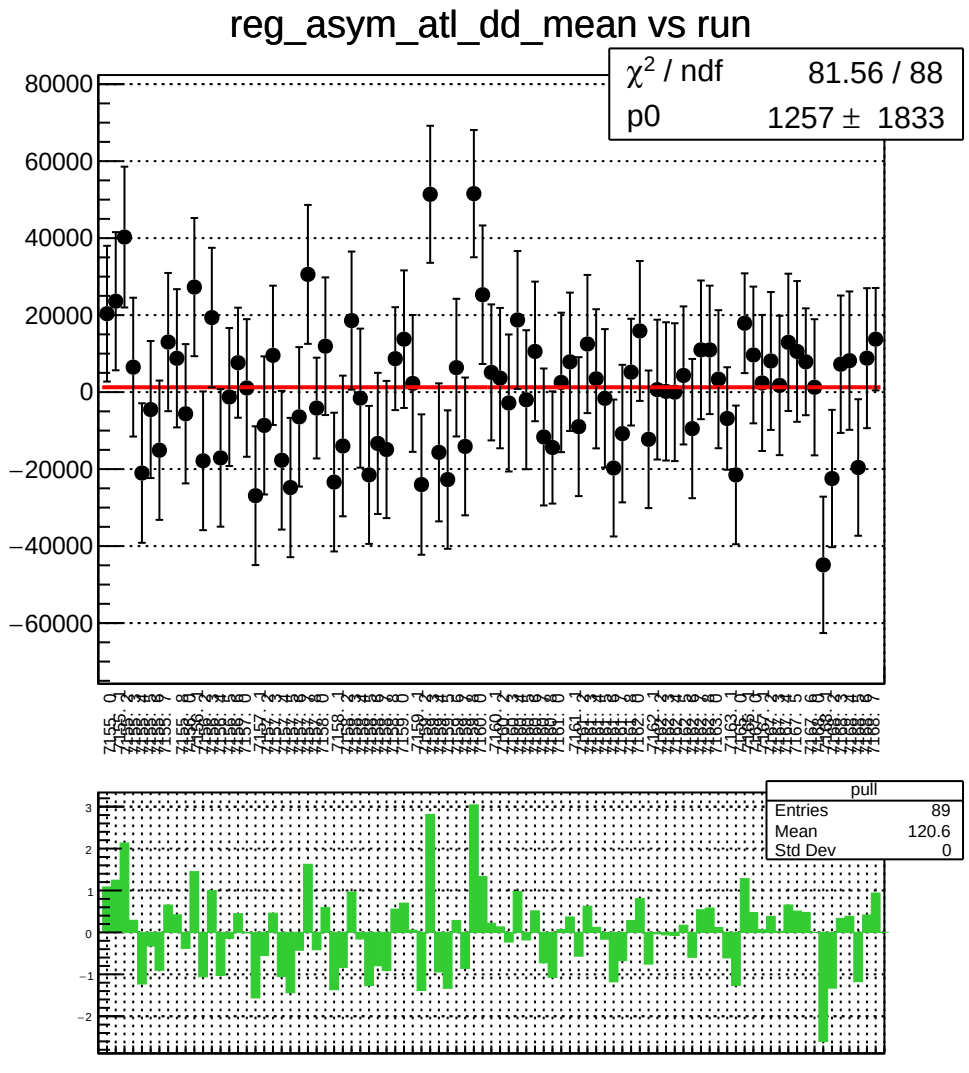

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.55 / 88
p0 0.5126 ± 0.277
pull
Entries 89
Mean −107.7
Std Dev 0
pull1D
Entries 89
Mean −0.02166
Std Dev 0.8837

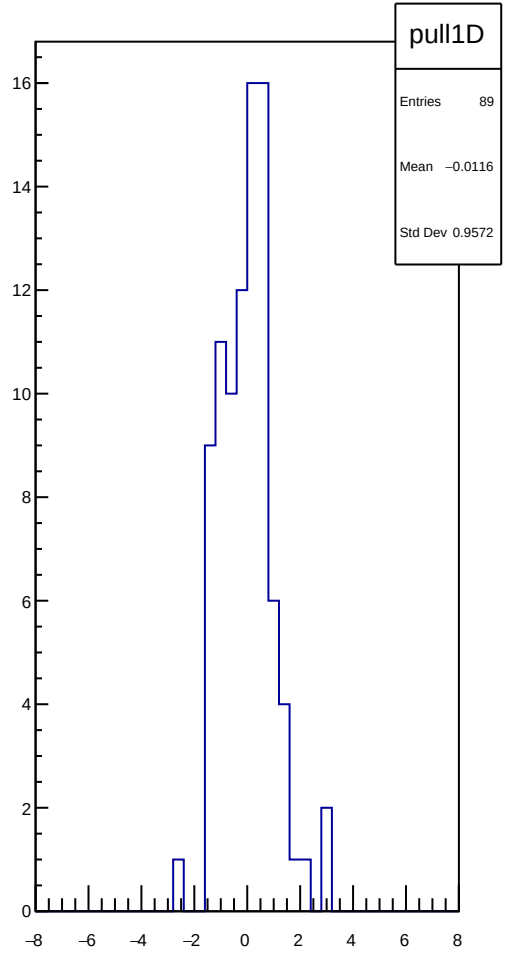

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.81e+04 / 88
p0 251.8 ± 0.1959
500
450
400
350
300
250
200
150

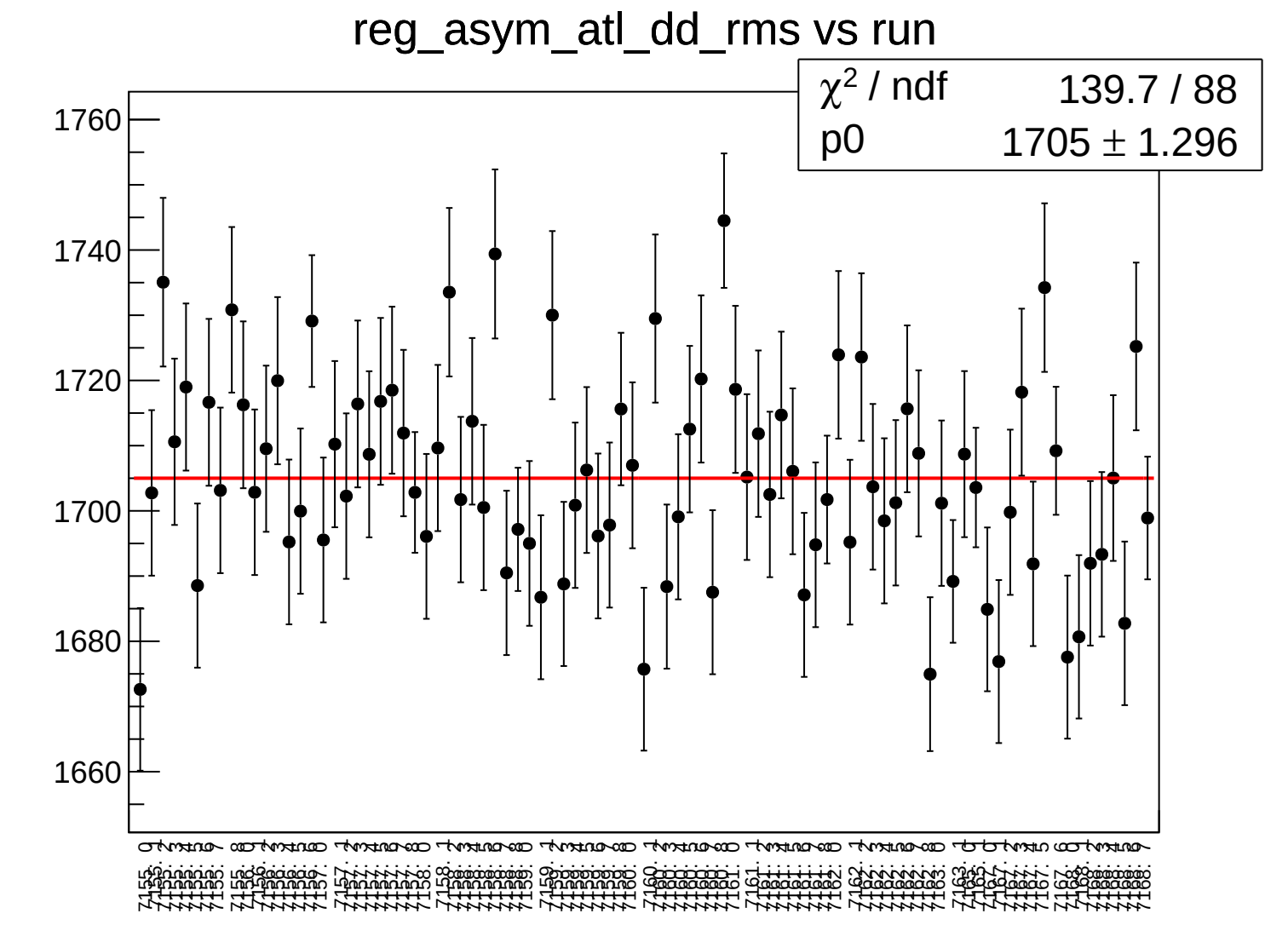

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 78.34 / 88
p0 1.436e−13 ± 2.021e−13
pull
Entries 89
Mean 126.1
Std Dev 0

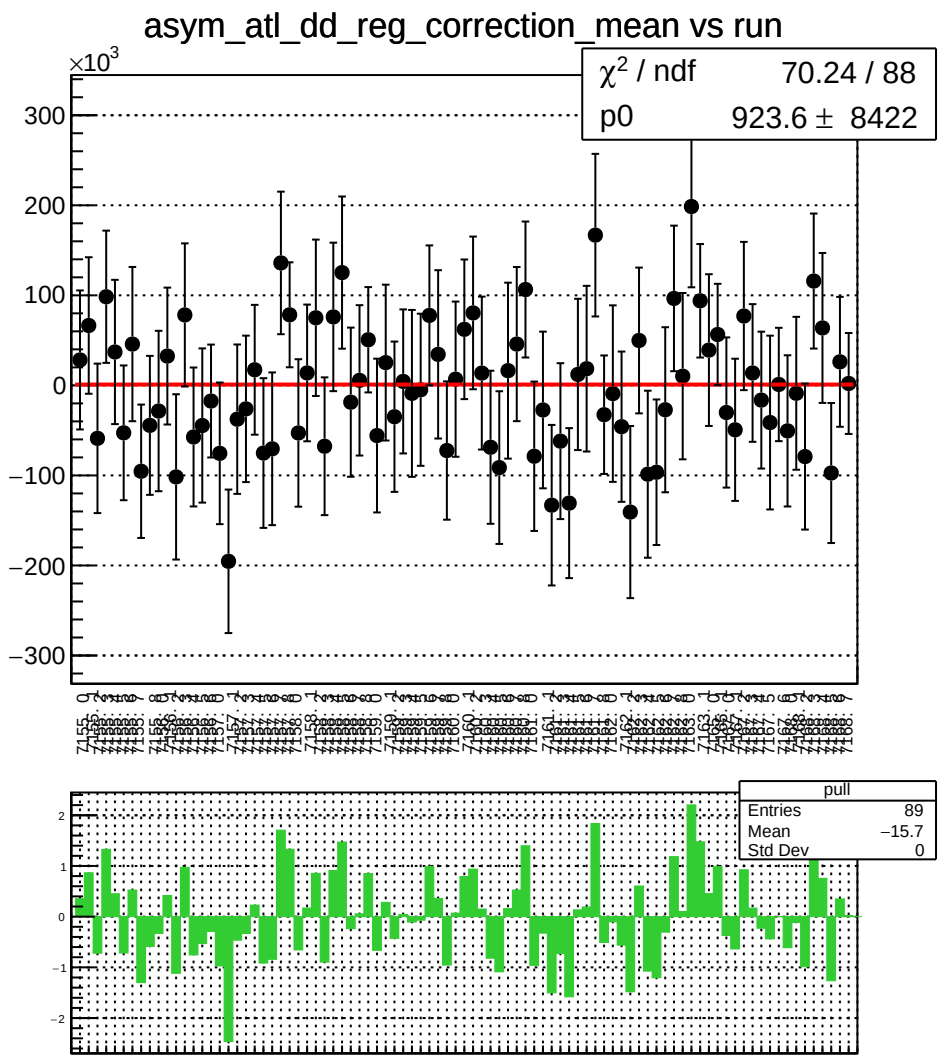

pull1D
Entries 89
Mean −0.03118
Std Dev 0.9377

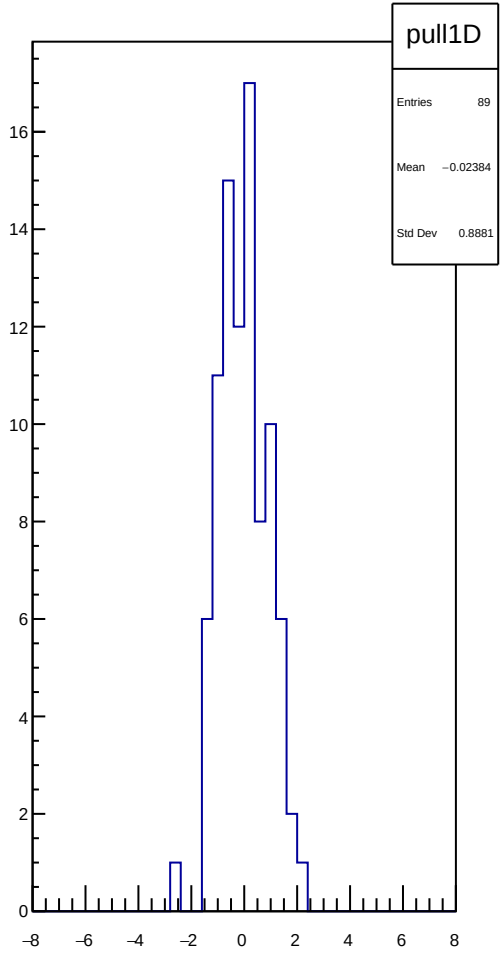

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.718e+05 / 88
p0 1.666e−10 ± 1.429e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

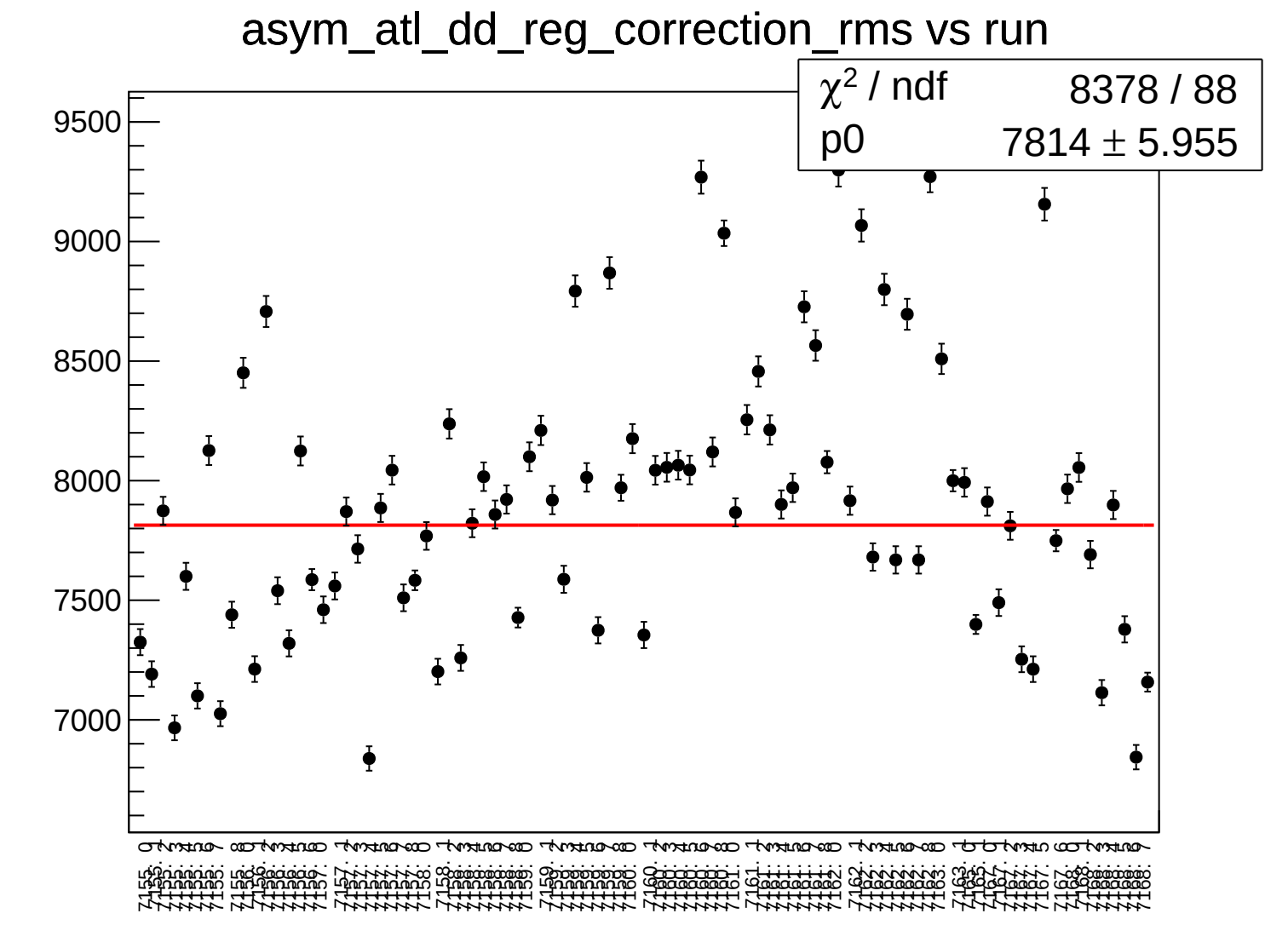

reg_asym_atl_dd_mean vs run
χ² / ndf 81.56 / 88
p0 1257 ± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 120.6
Std Dev 0
3
2
1
0
−1
−2

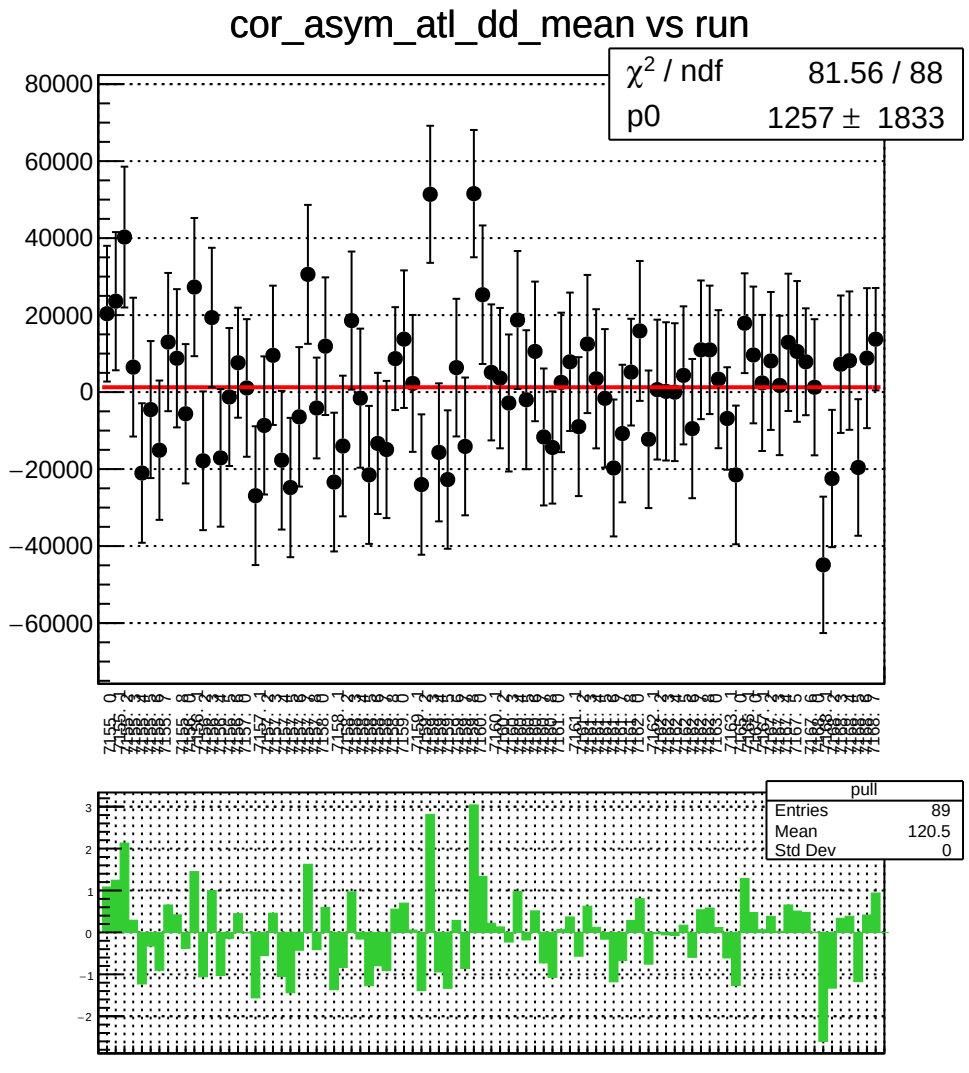

pull1D
Entries 89
Mean −0.0116
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

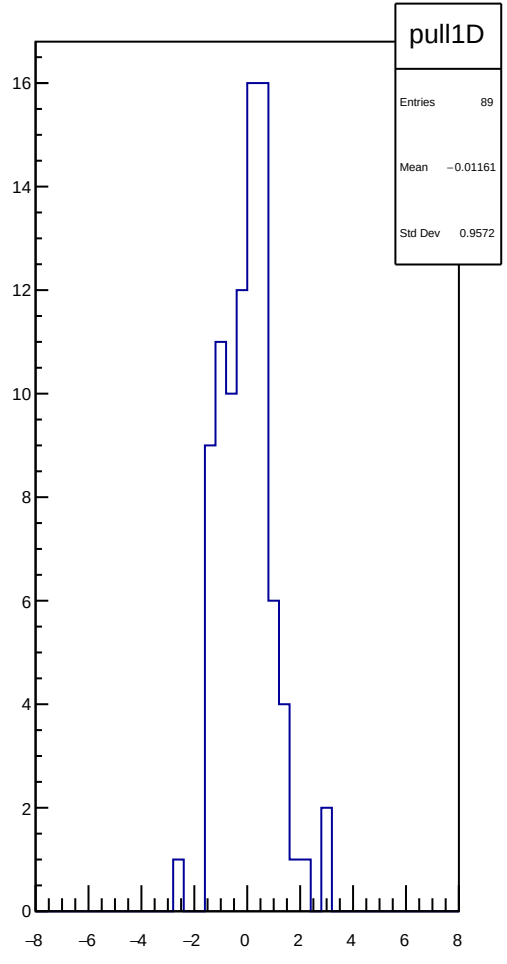

reg_asym_atl_dd_rms vs run
χ^2 / ndf 139.7 / 88
p0 1705 ± 1.296
1760
1740
1720
1700
1680
1660

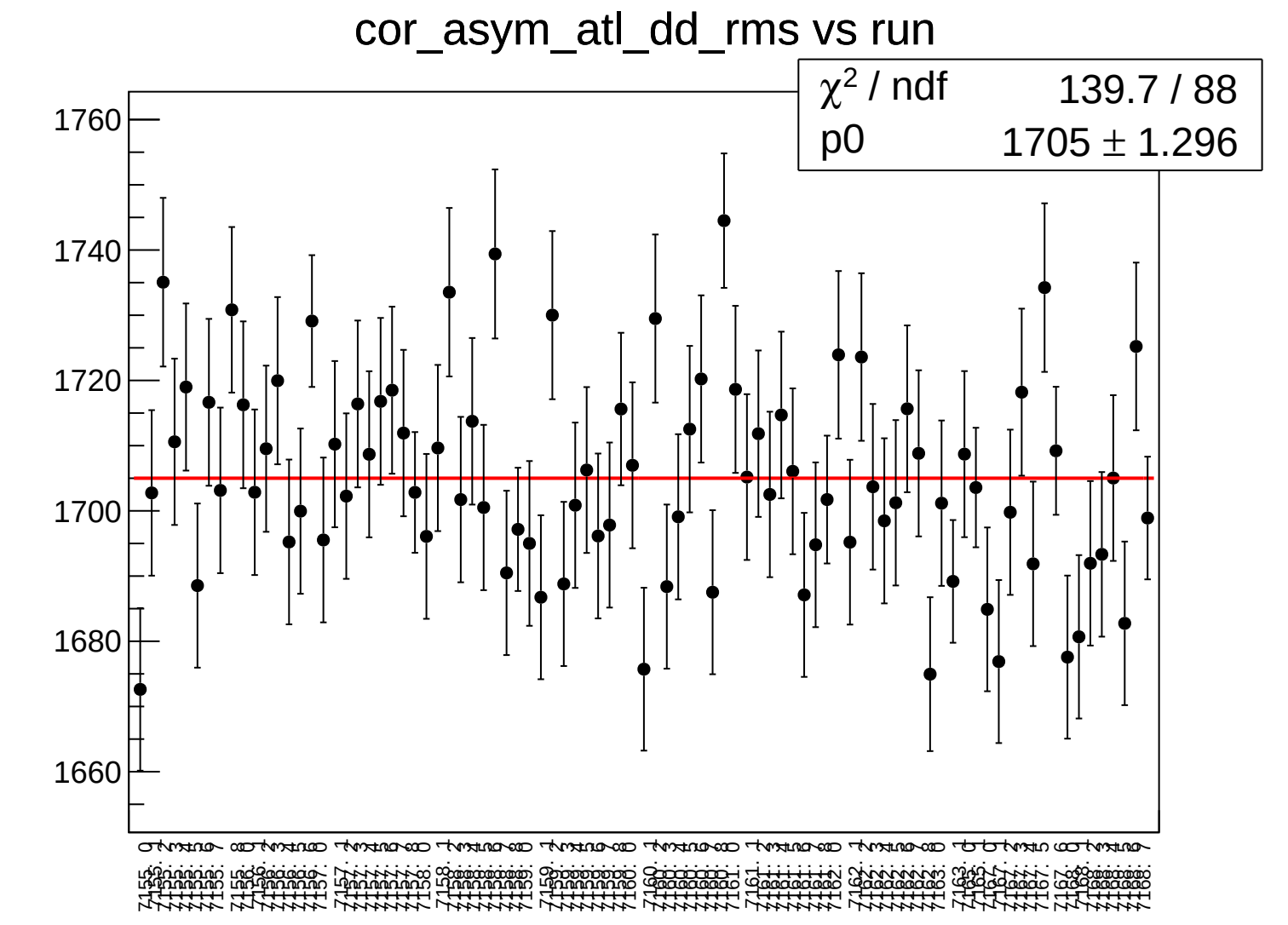

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 70.24 / 88
p0 923.6 ± 8422
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.7
Std Dev 0
2
1
0
−1
−2

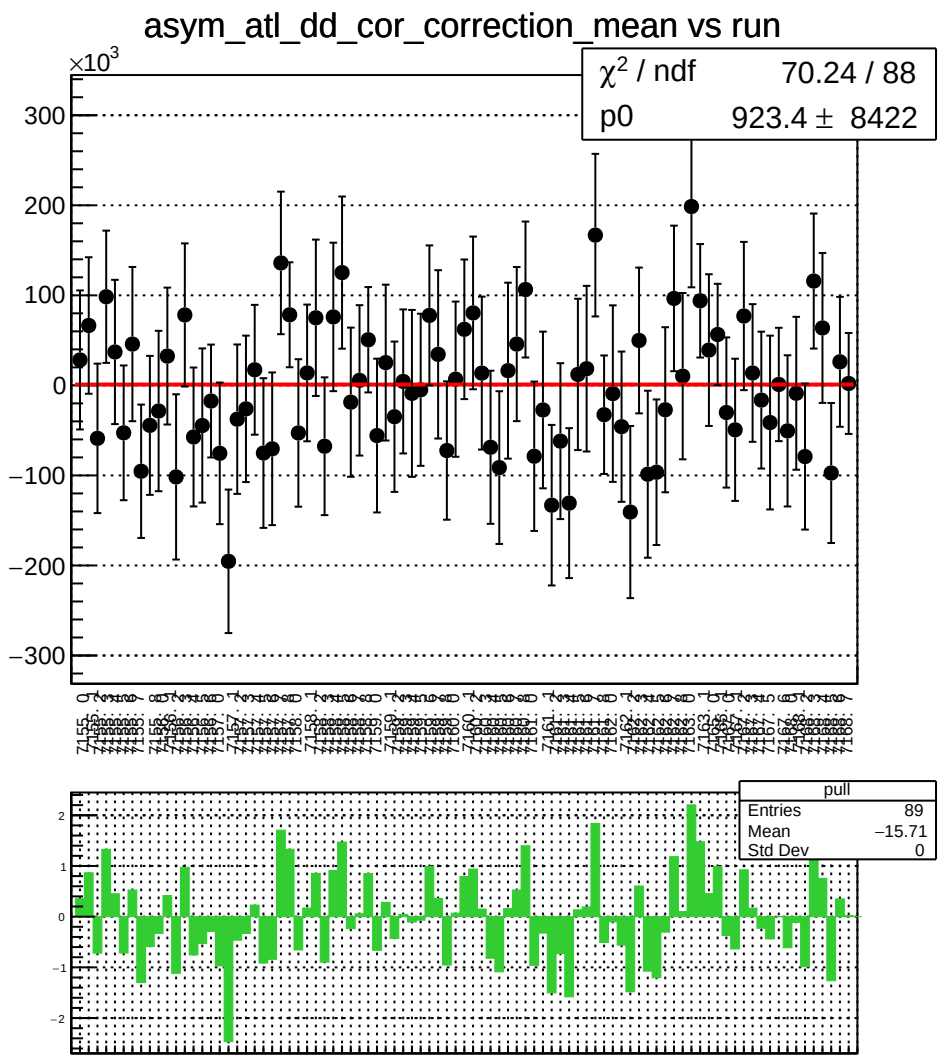

pull1D
Entries 89
Mean −0.02384
Std Dev 0.8881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

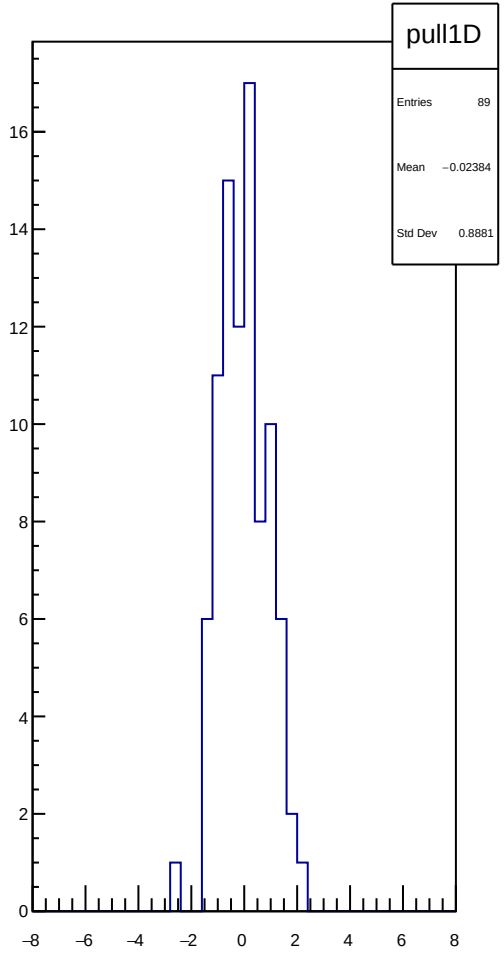

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 8378 / 88
p0 7814 ± 5.955
9500
9000
8500
8000
7500
7000

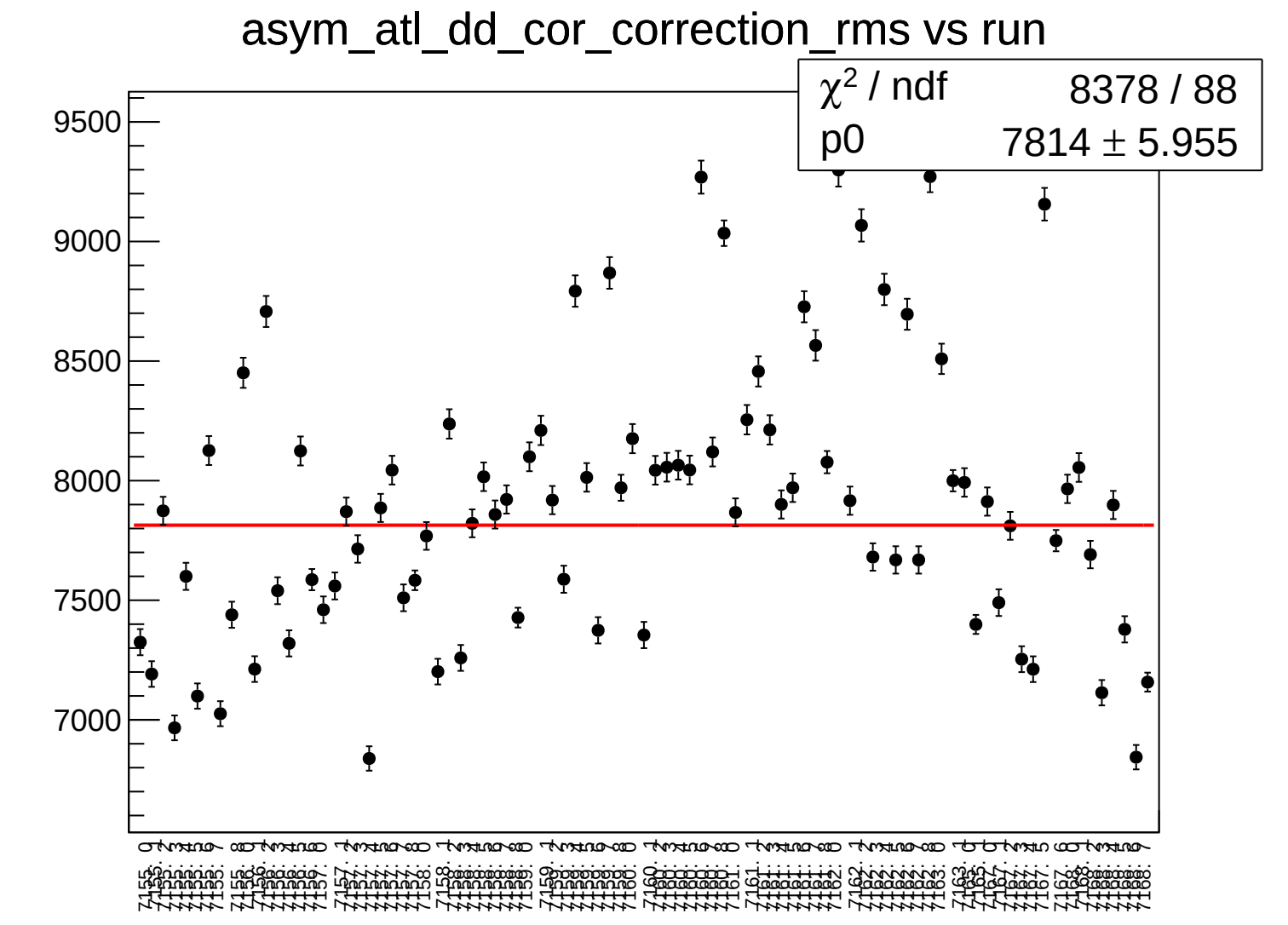

cor_asym_atl_dd_mean vs run
χ² / ndf 81.56 / 88
p0 1257 ± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 120.5
Std Dev 0
3
2
1
0
−1
−2

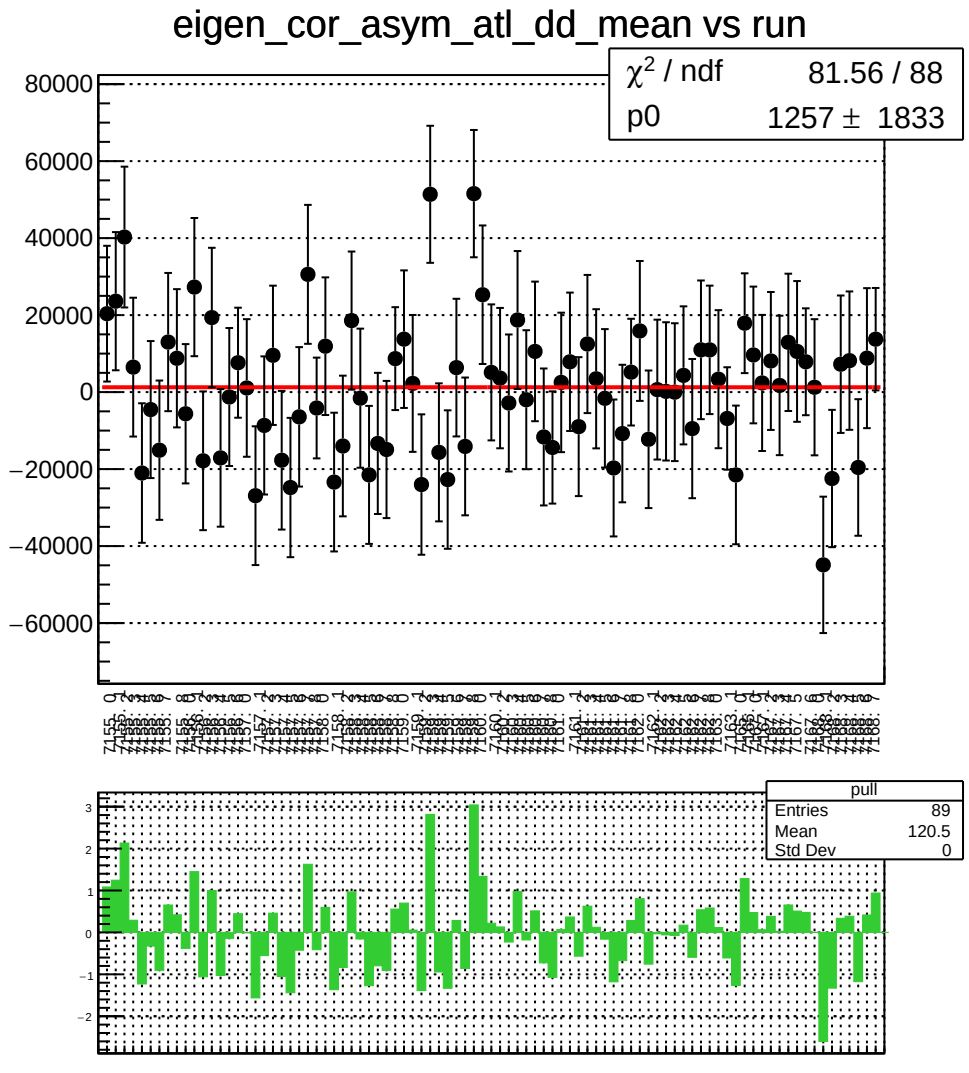

pull1D
Entries 89
Mean −0.01161
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

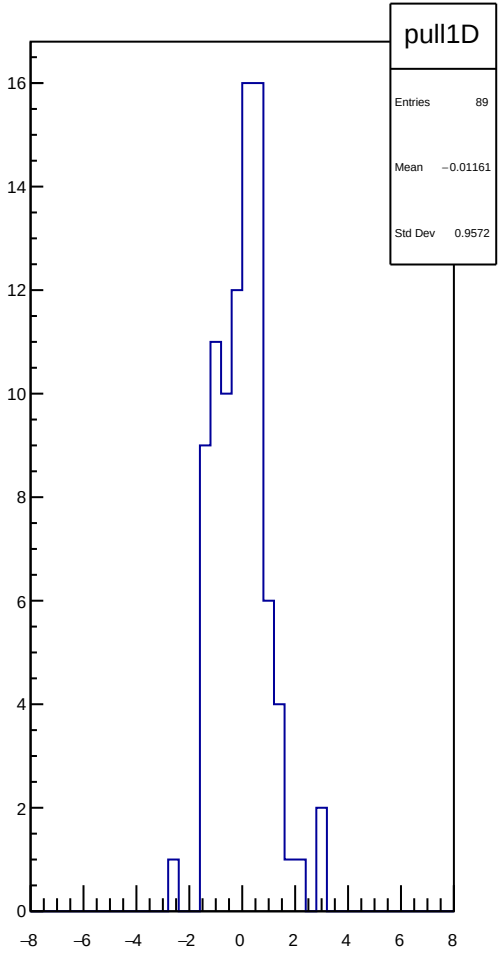

cor_asym_atl_dd_rms vs run
χ² / ndf 139.7 / 88
p0 1705 ± 1.296
1760
1740
1720
1700
1680
1660

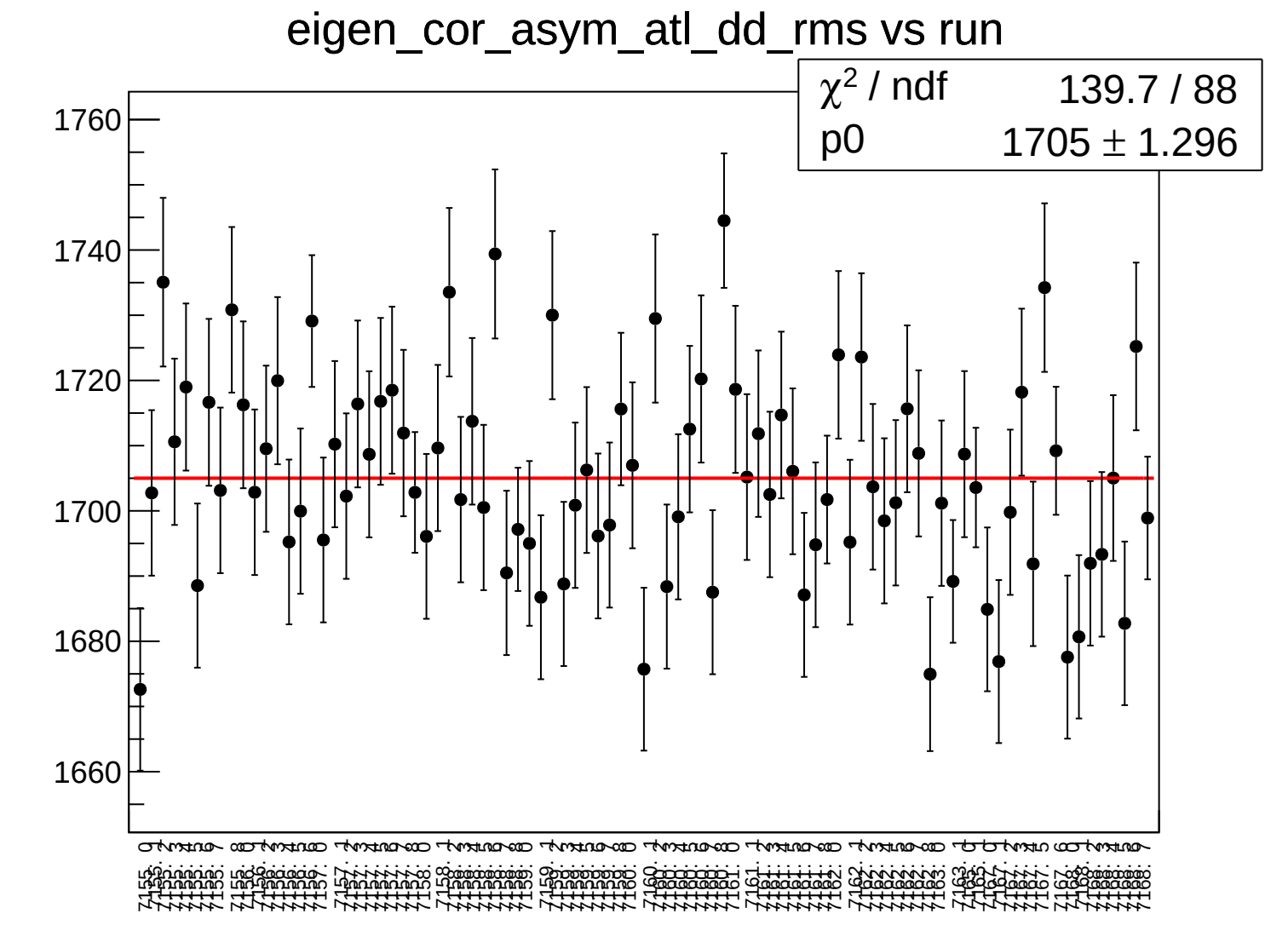

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 70.24 / 88
p0 923.4 ± 8422
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.71
Std Dev 0
2
1
0
−1
−2

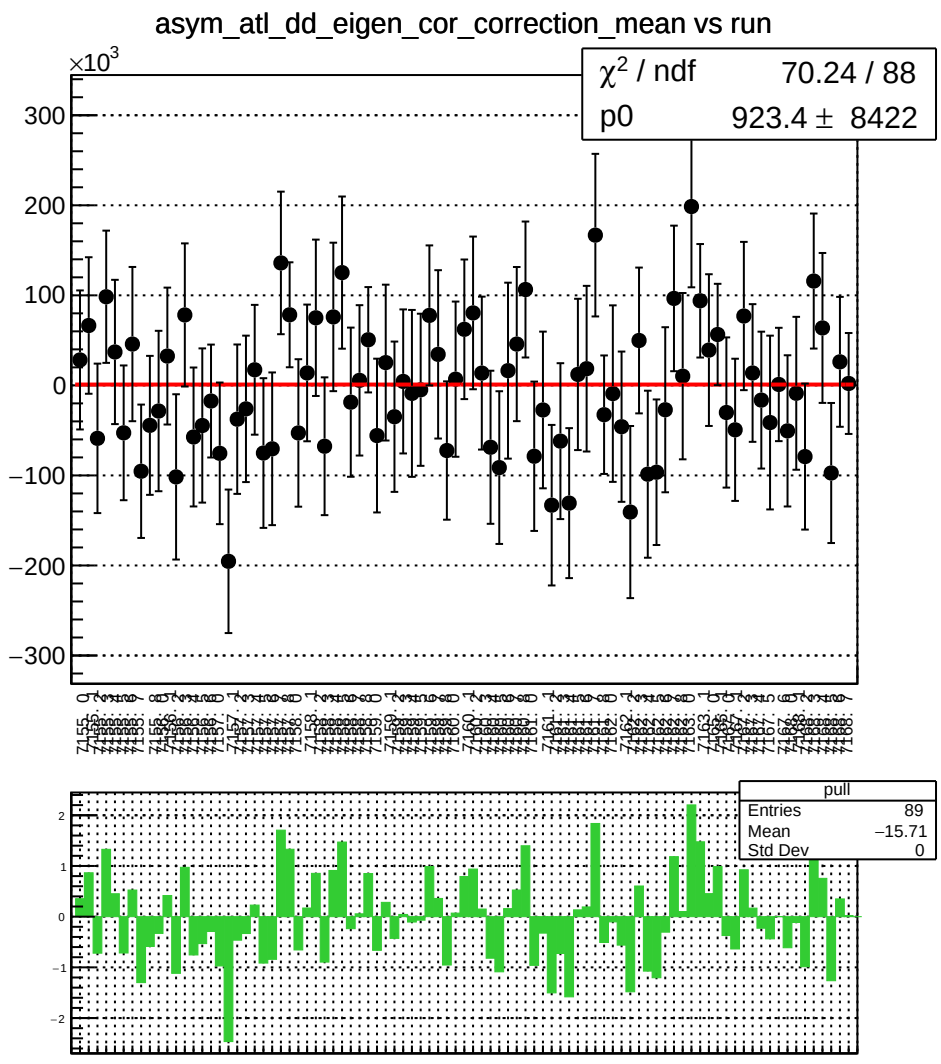

pull1D
Entries 89
Mean −0.02384
Std Dev 0.8881
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

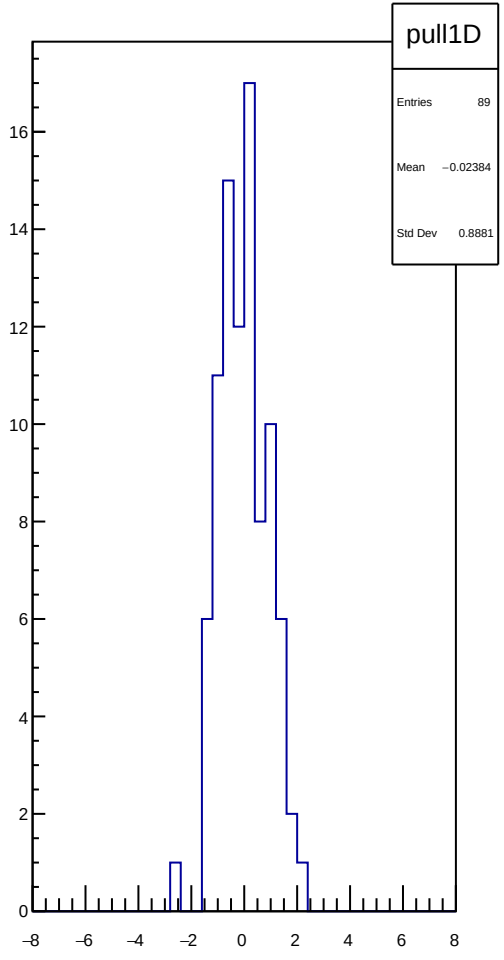

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 8378 / 88
p0 7814 ± 5.955
9500
9000
8500
8000
7500
7000

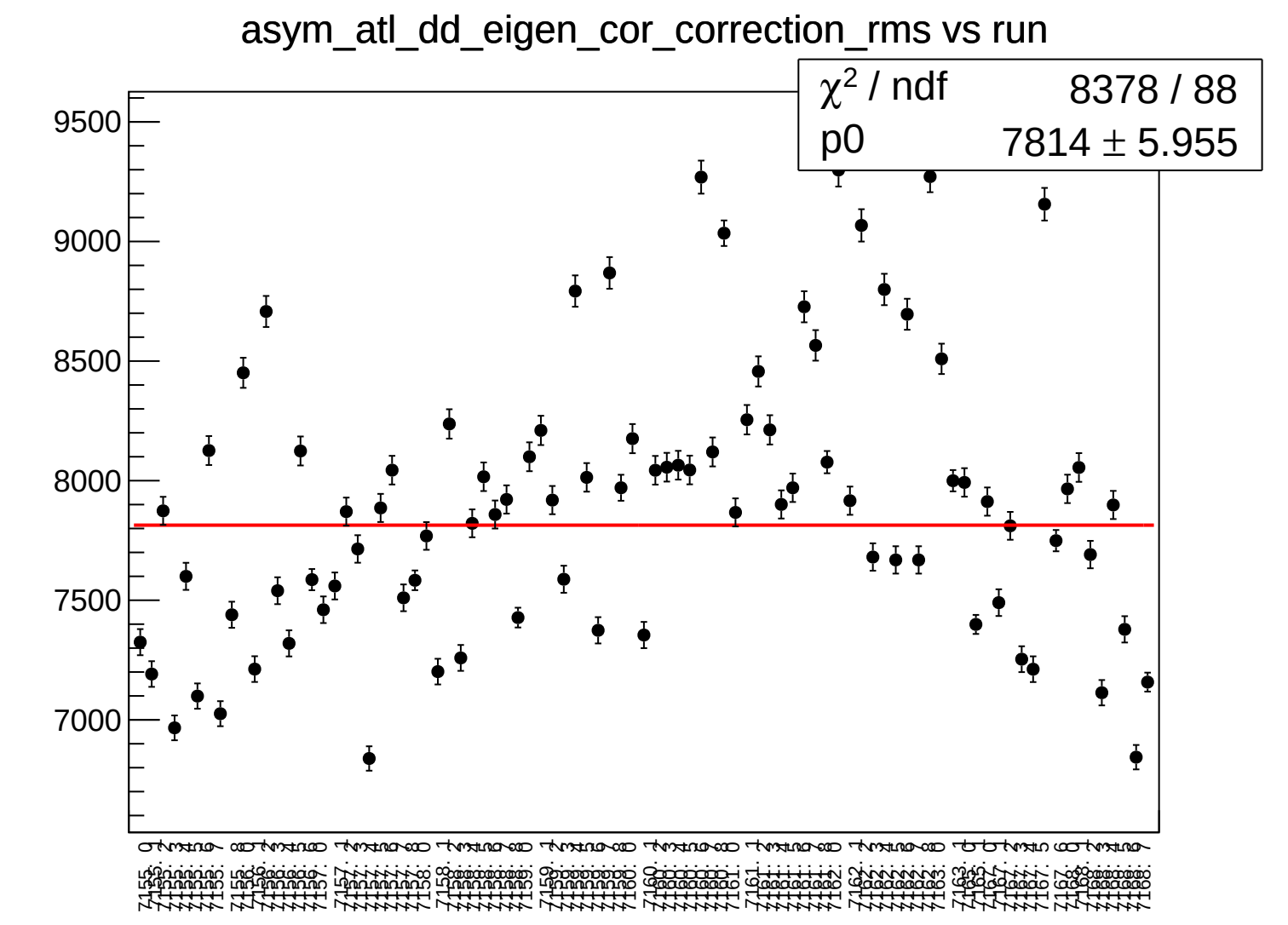

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 81.56 / 88
p0 1257 ± 1833
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 120.5
Std Dev 0
3
2
1
0
−1
−2

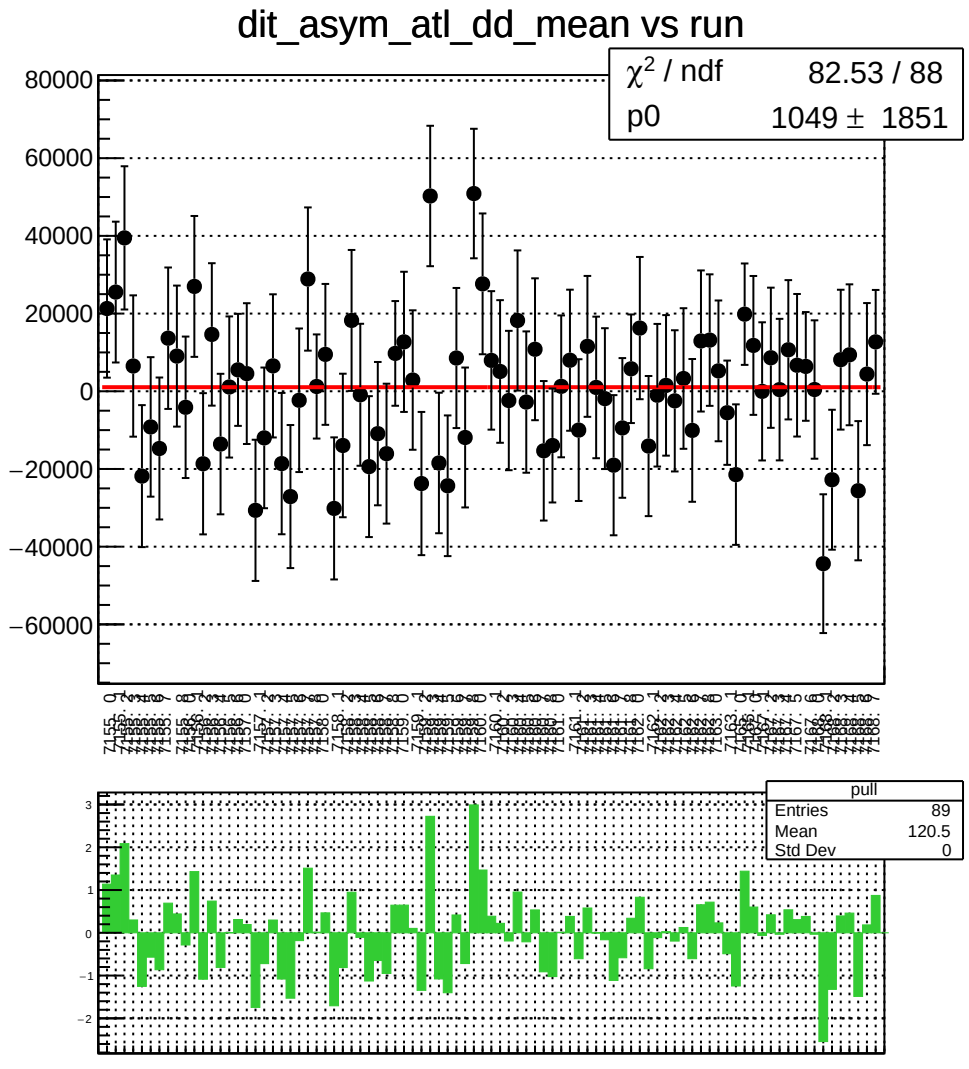

pull1D
Entries 89
Mean −0.01161
Std Dev 0.9572
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

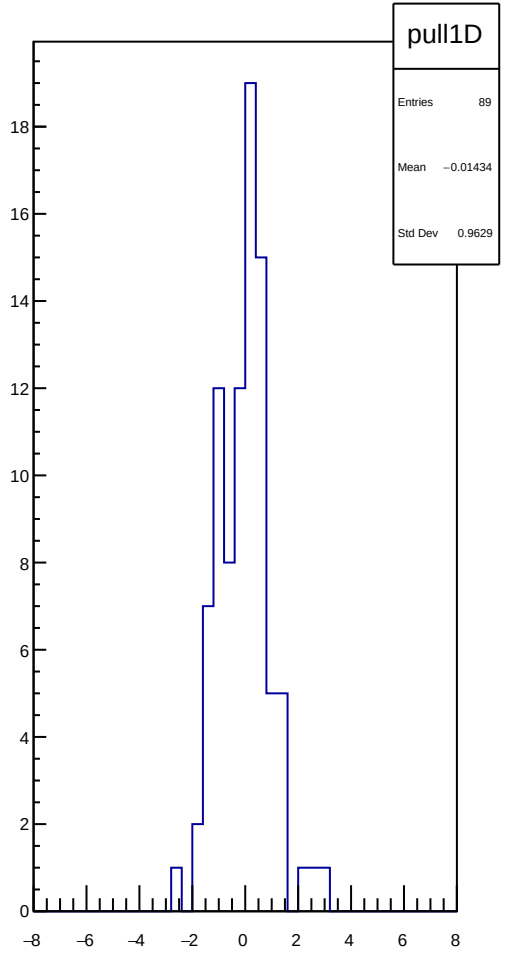

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 139.7 / 88
p0 1705 ± 1.296
1760
1740
1720
1700
1680
1660

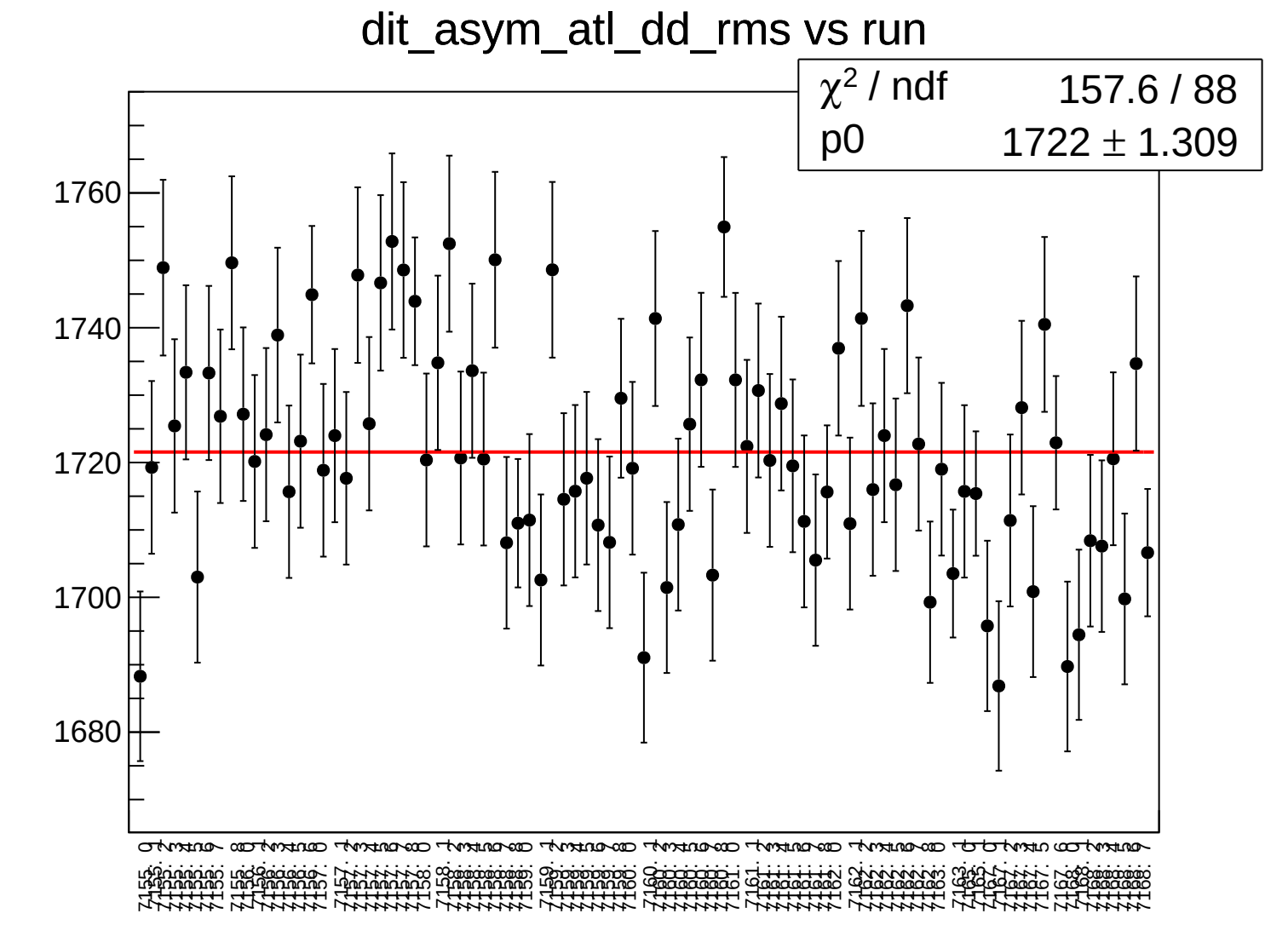

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.24 / 88
p0 923.4 ± 8422
pull
Entries 89
Mean −15.71
Std Dev 0

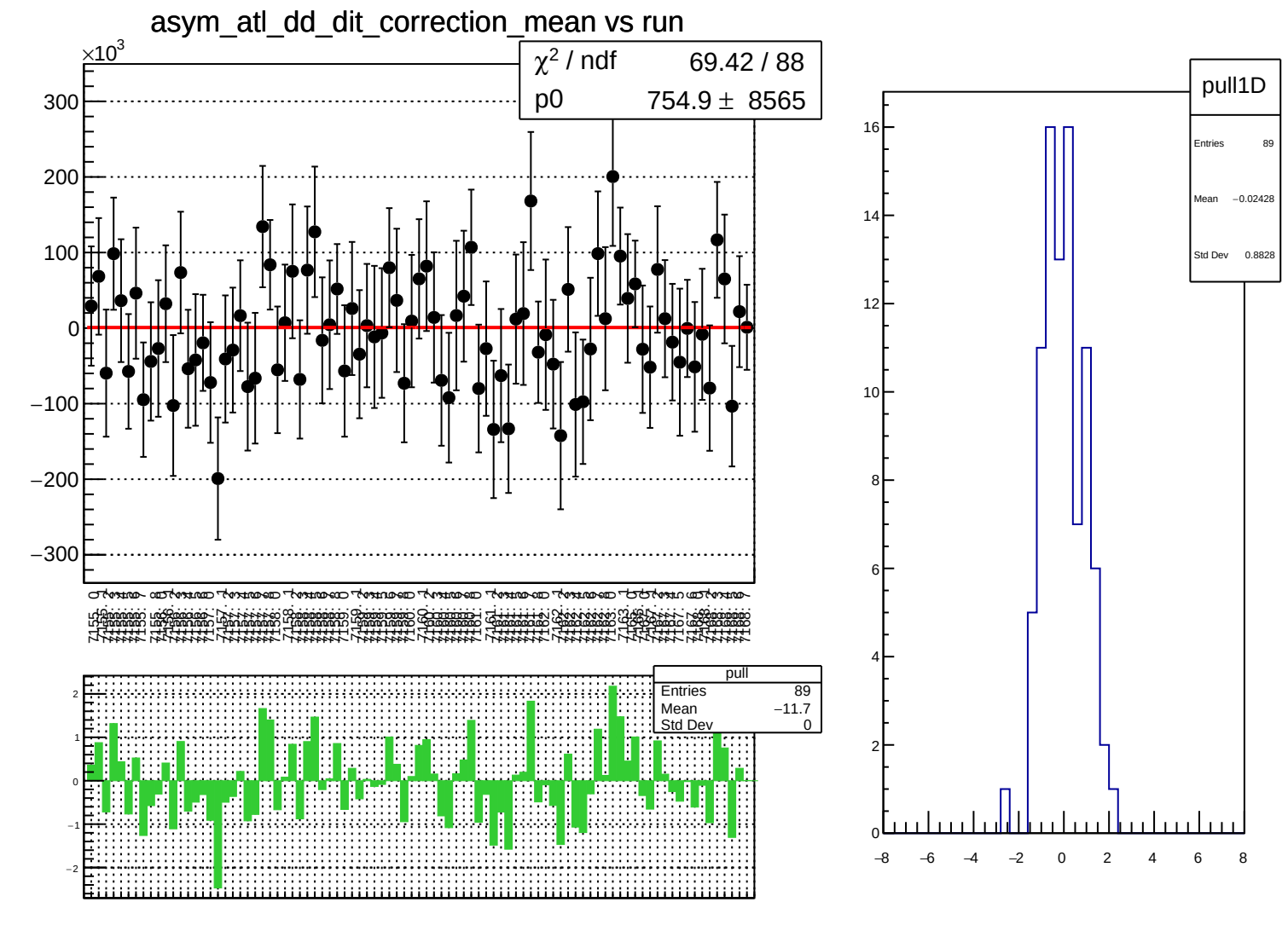

pull1D
Entries 89
Mean −0.02384
Std Dev 0.8881

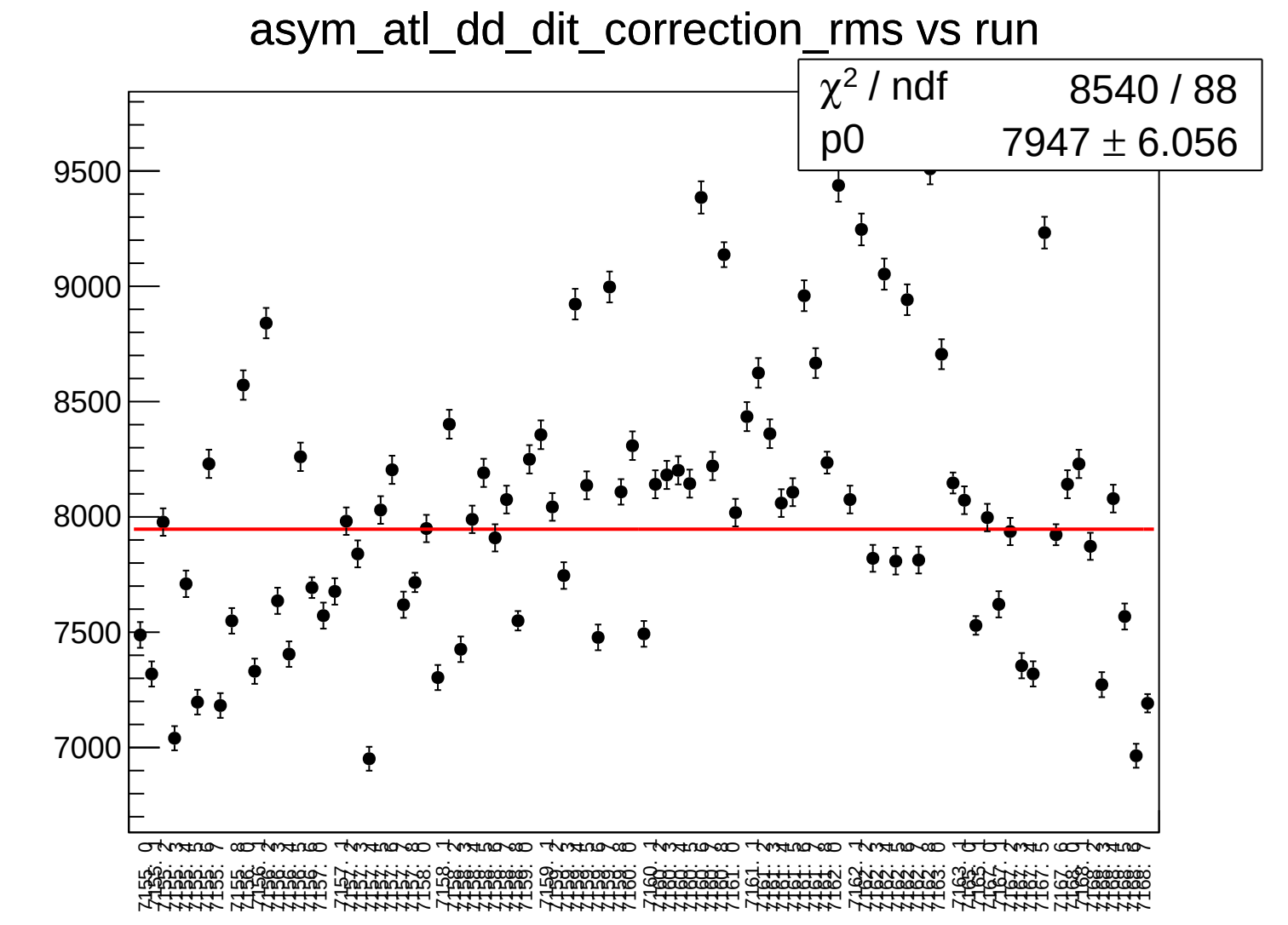

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 8378 / 88
p0 7814 ± 5.955
9500
9000
8500
8000
7500
7000

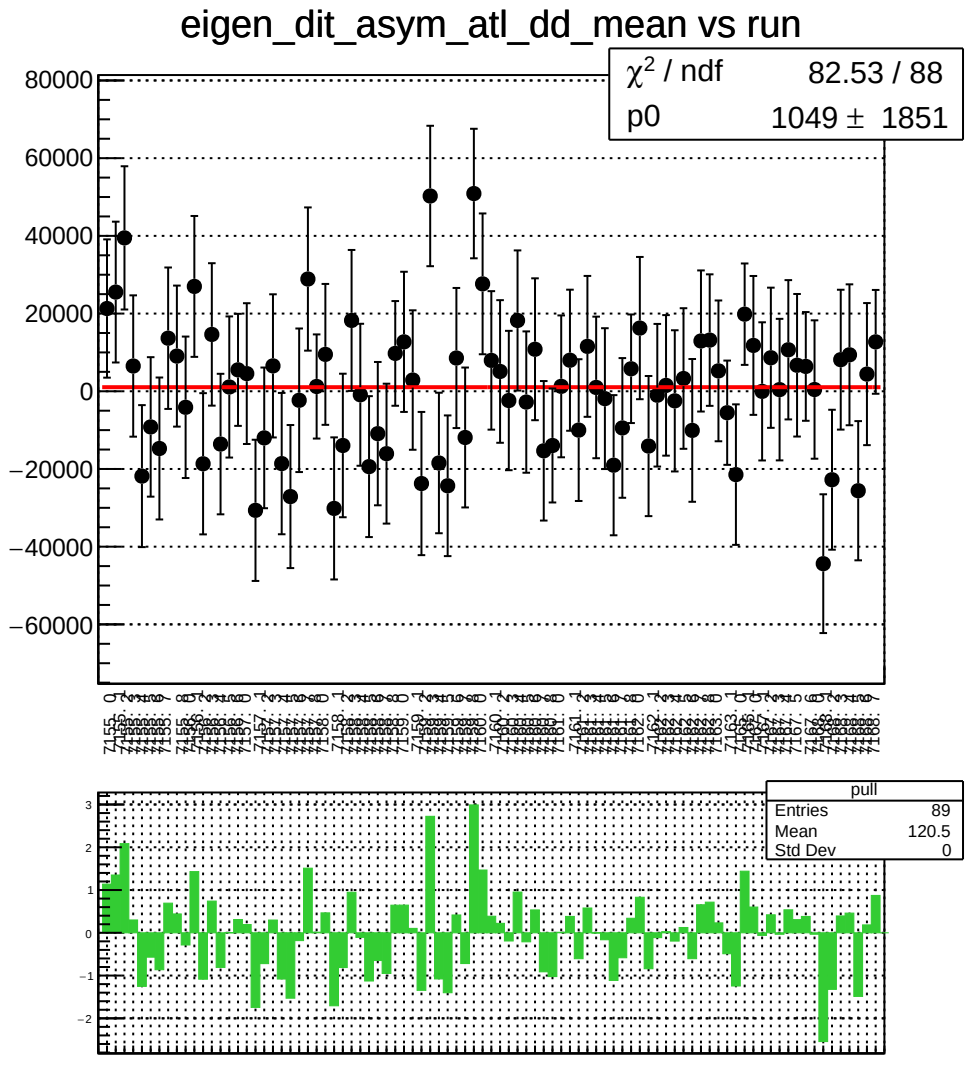

dit_asym_atl_dd_mean vs run
χ² / ndf 82.53 / 88
p0 1049 ± 1851
pull
Entries 89
Mean 120.5
Std Dev 0

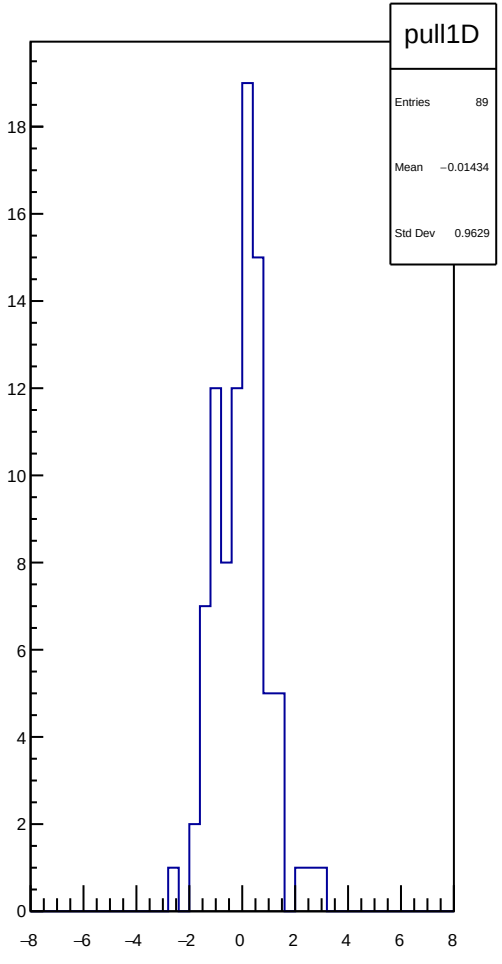

pull1D
Entries 89
Mean −0.01434
Std Dev 0.9629

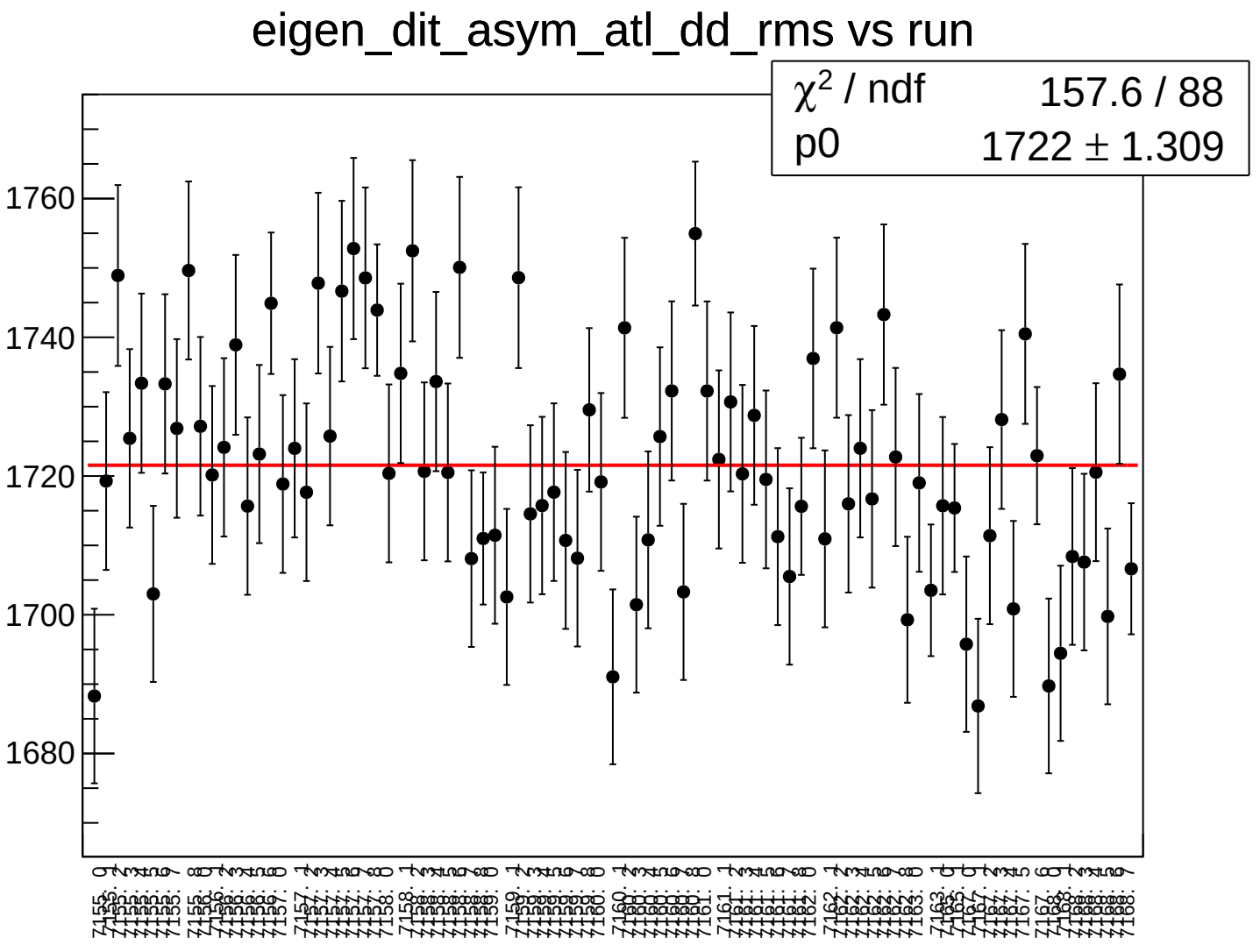

dit_asym_atl_dd_rms vs run
χ² / ndf 157.6 / 88
p0 1722 ± 1.309
1760
1740
1720
1700
1680

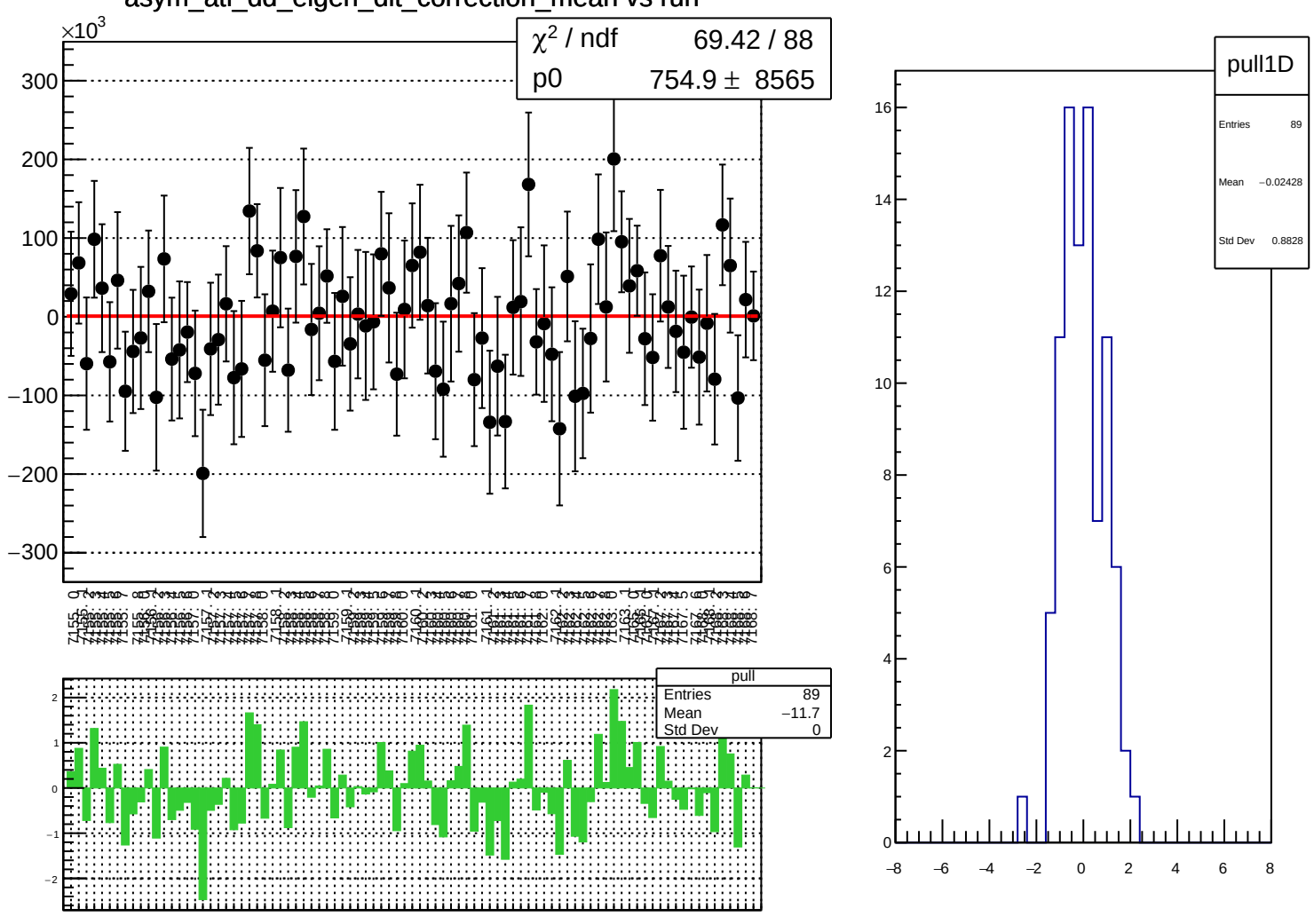

asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 69.42 / 88
p0 754.9 ± 8565
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −11.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02428
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

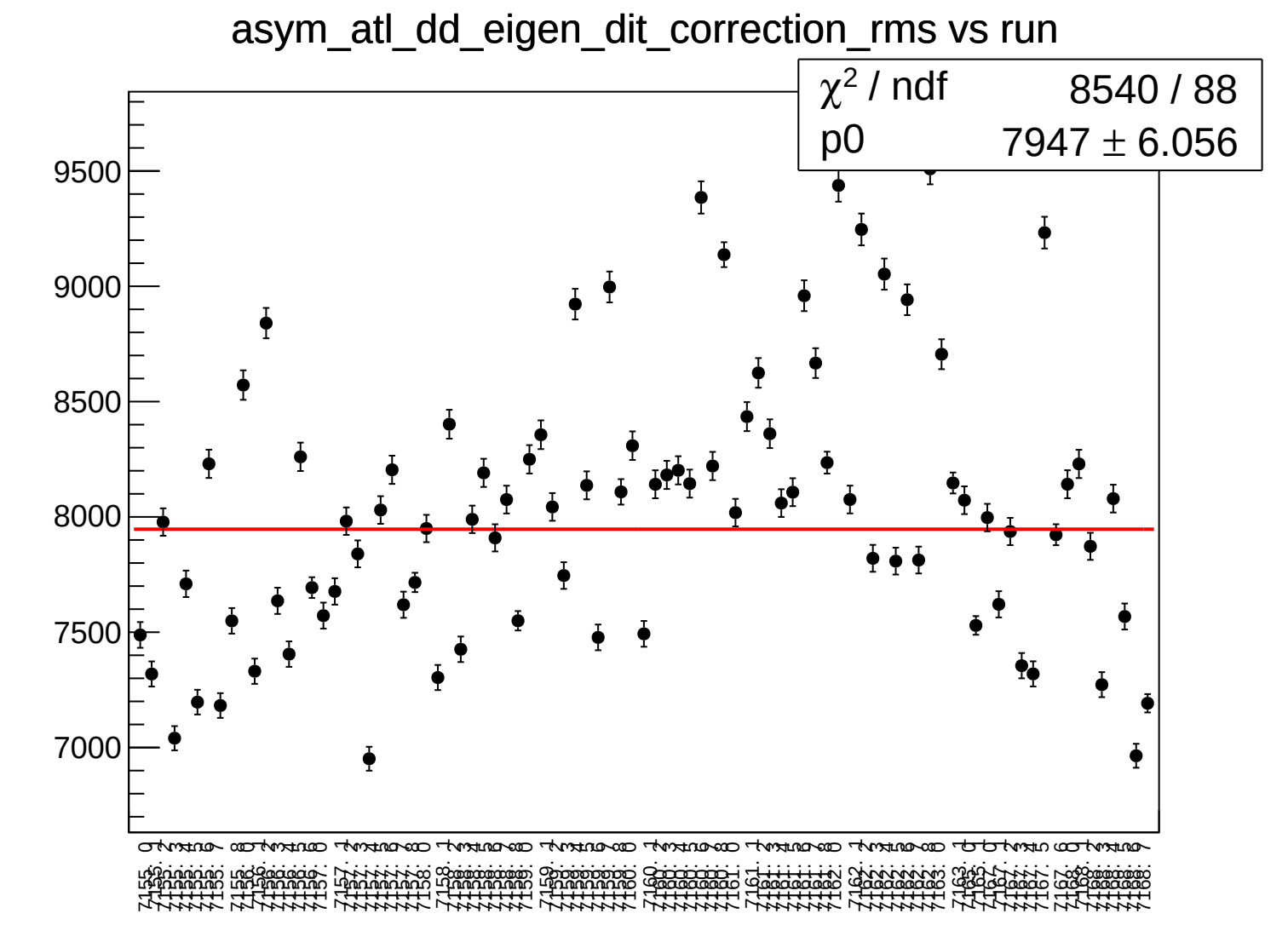

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 8540 / 88
p0 7947 ± 6.056
9500
9000
8500
8000
7500
7000

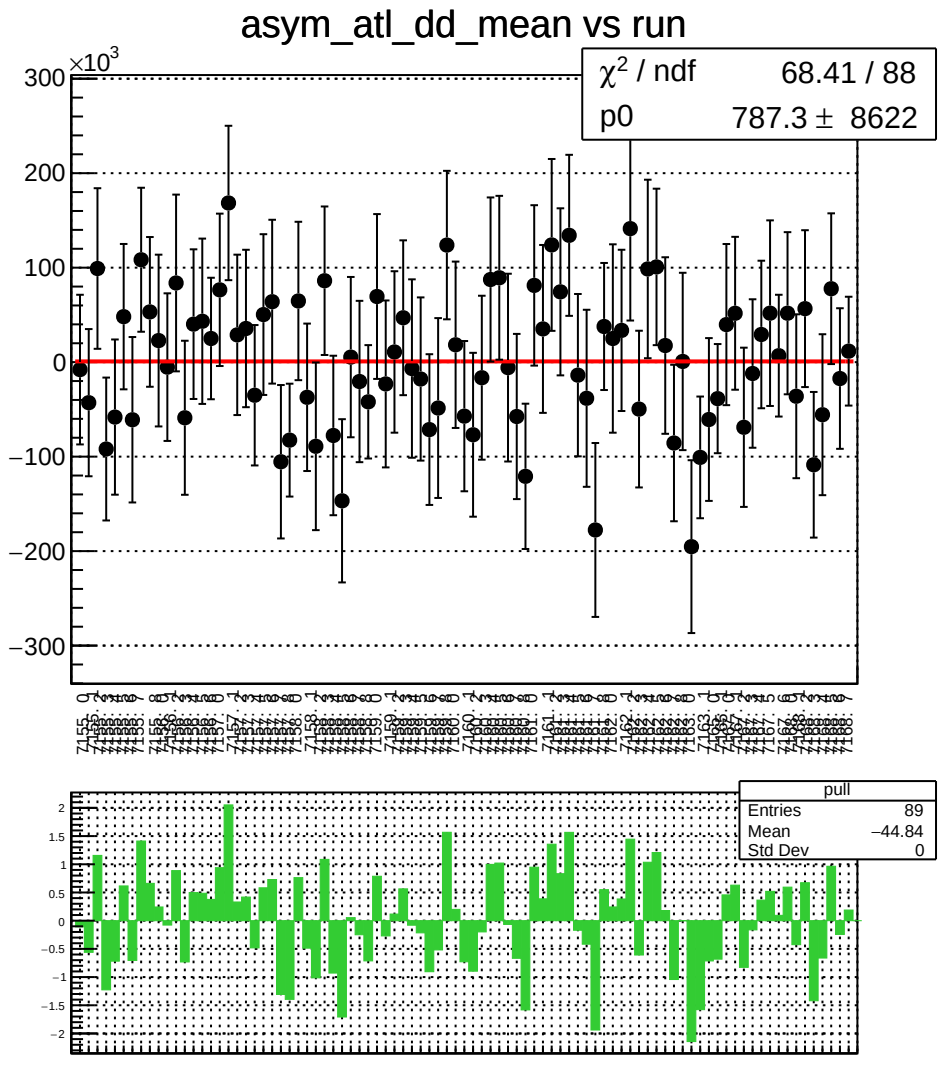

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 82.53 / 88
p0 1049 ± 1851
pull
Entries 89
Mean 120.5
Std Dev 0

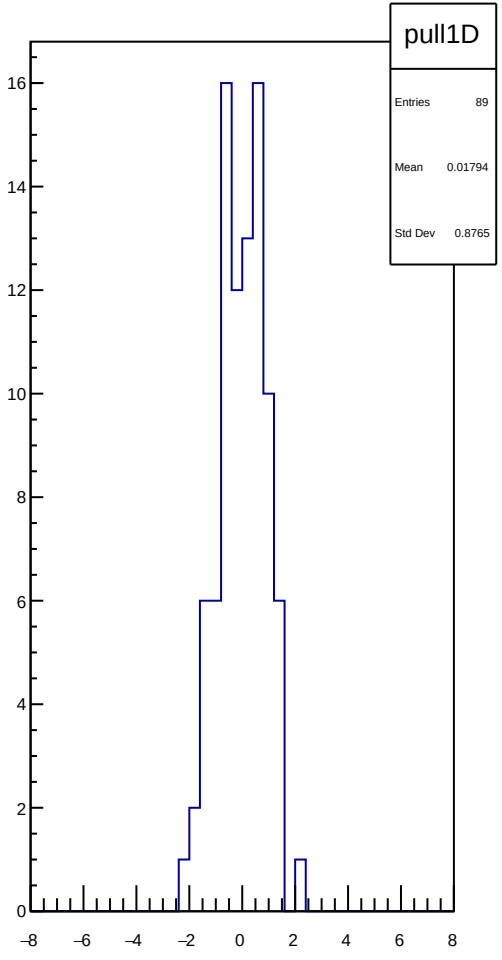

pull1D
Entries 89
Mean −0.01434
Std Dev 0.9629

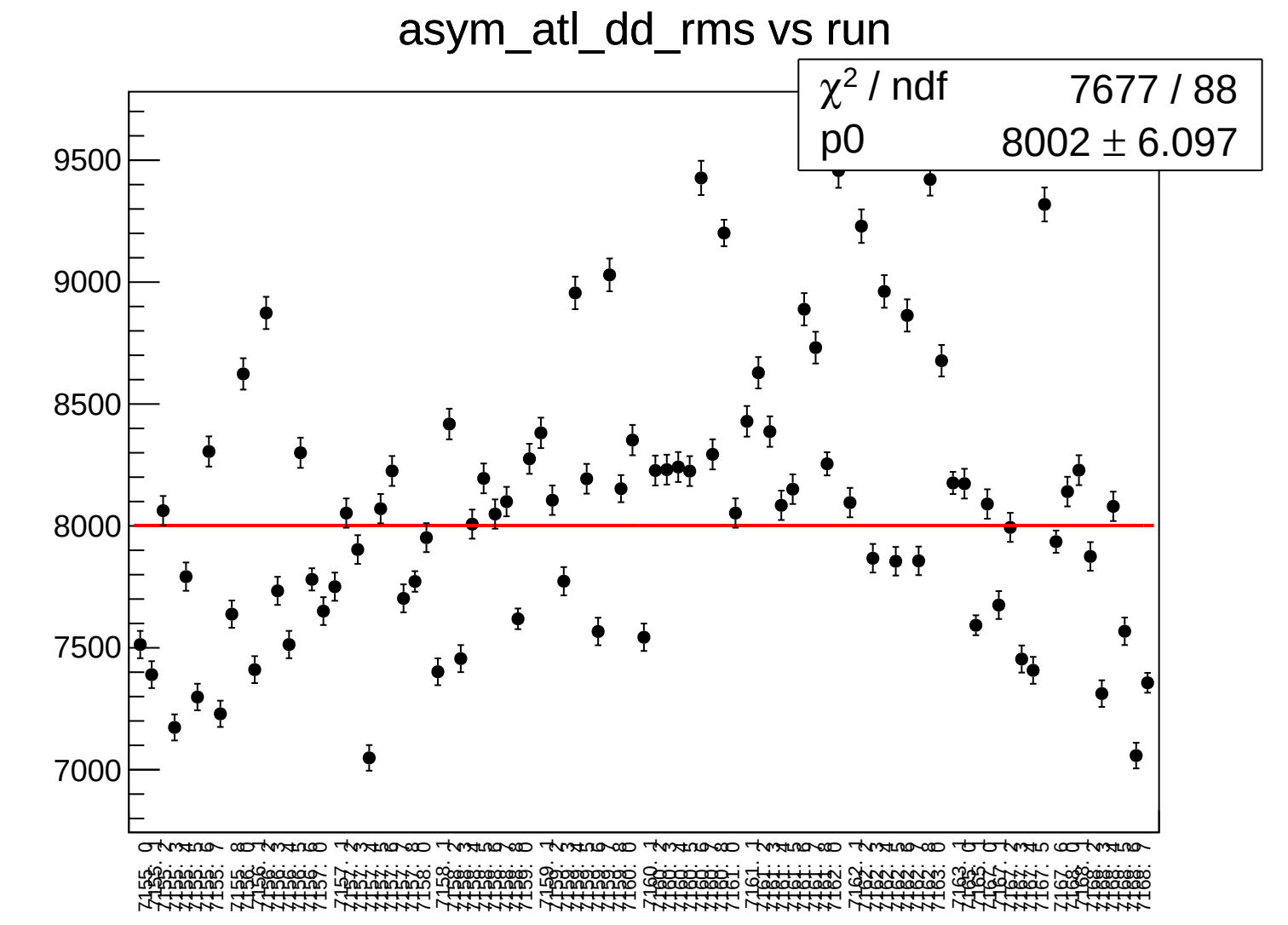

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 157.6 / 88
p0 1722 ± 1.309
1760
1740
1720
1700
1680

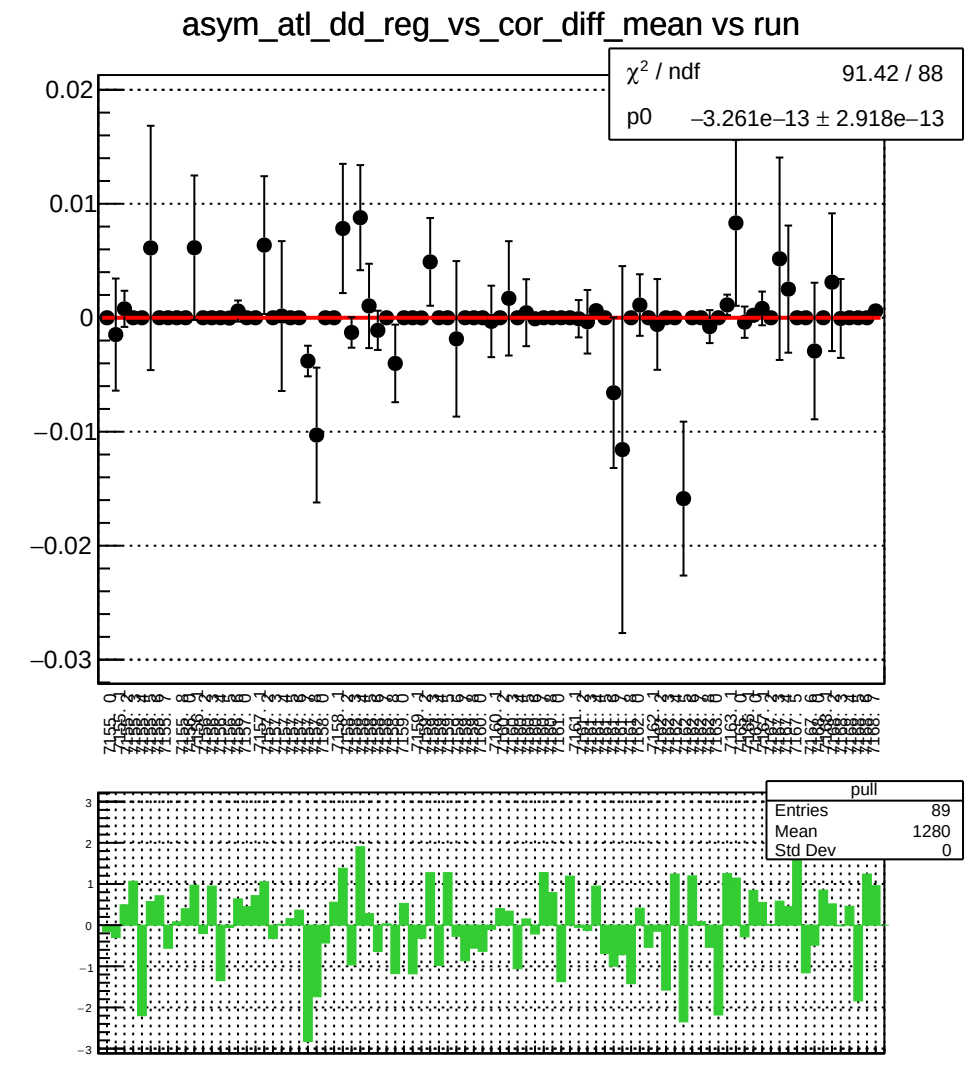

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.42 / 88
p0 754.9 ± 8565
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −11.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02428
Std Dev 0.8828
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

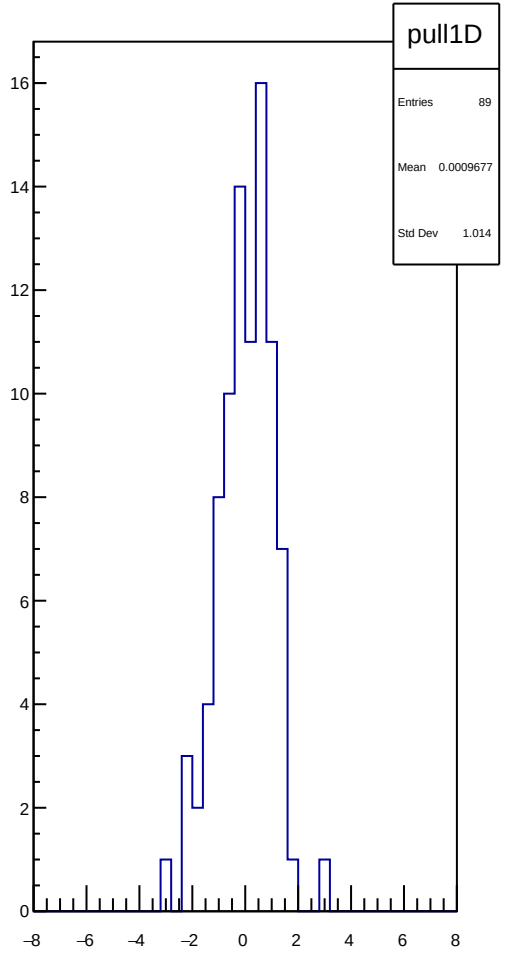

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 8540 / 88
p0 7947 ± 6.056
9500
9000
8500
8000
7500
7000

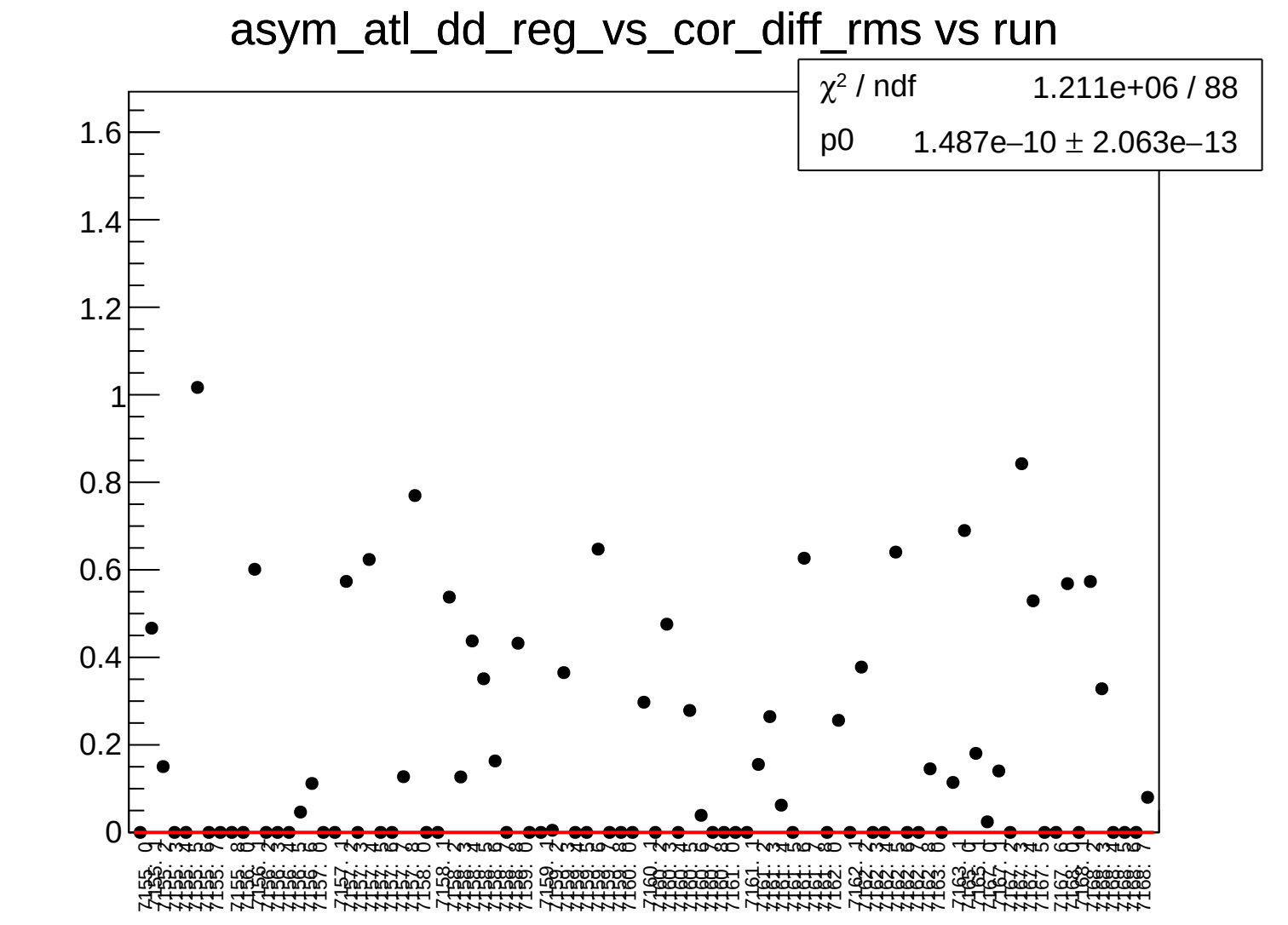

asym_atl_dd_mean vs run
χ² / ndf 68.41 / 88
p0 787.3 ± 8622
×10³
pull
Entries 89
Mean −44.84
Std Dev 0

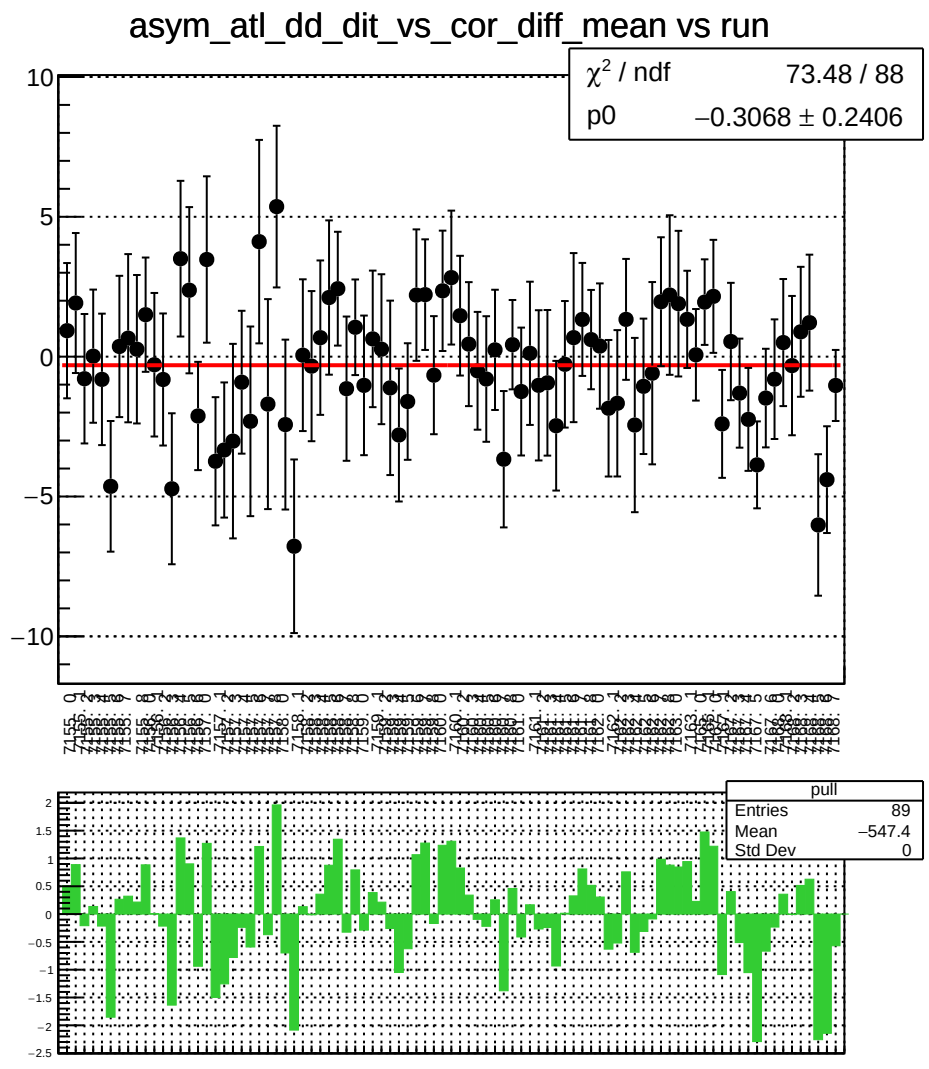

pull1D
Entries 89
Mean 0.01794
Std Dev 0.8765

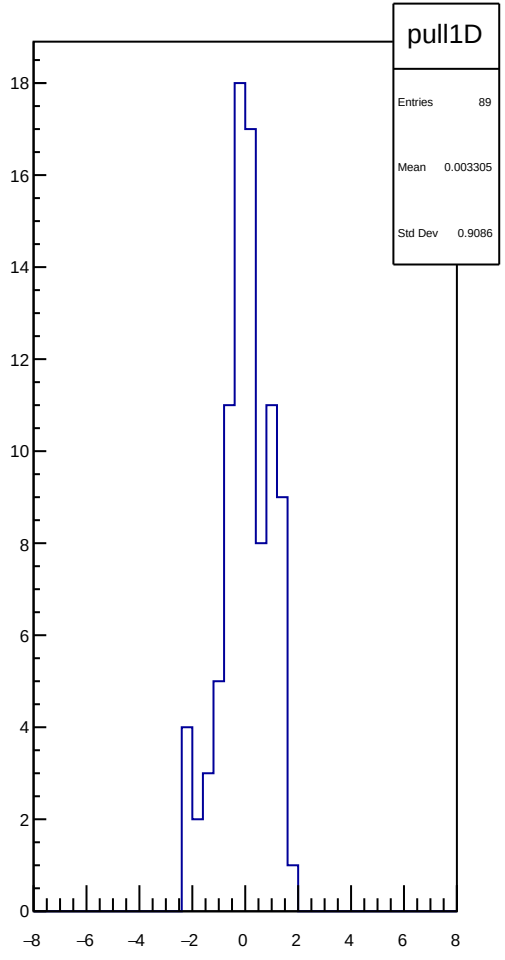

asym_atl_dd_rms vs run
χ^2 / ndf 7677 / 88
p0 8002 ± 6.097
9500
9000
8500
8000
7500
7000

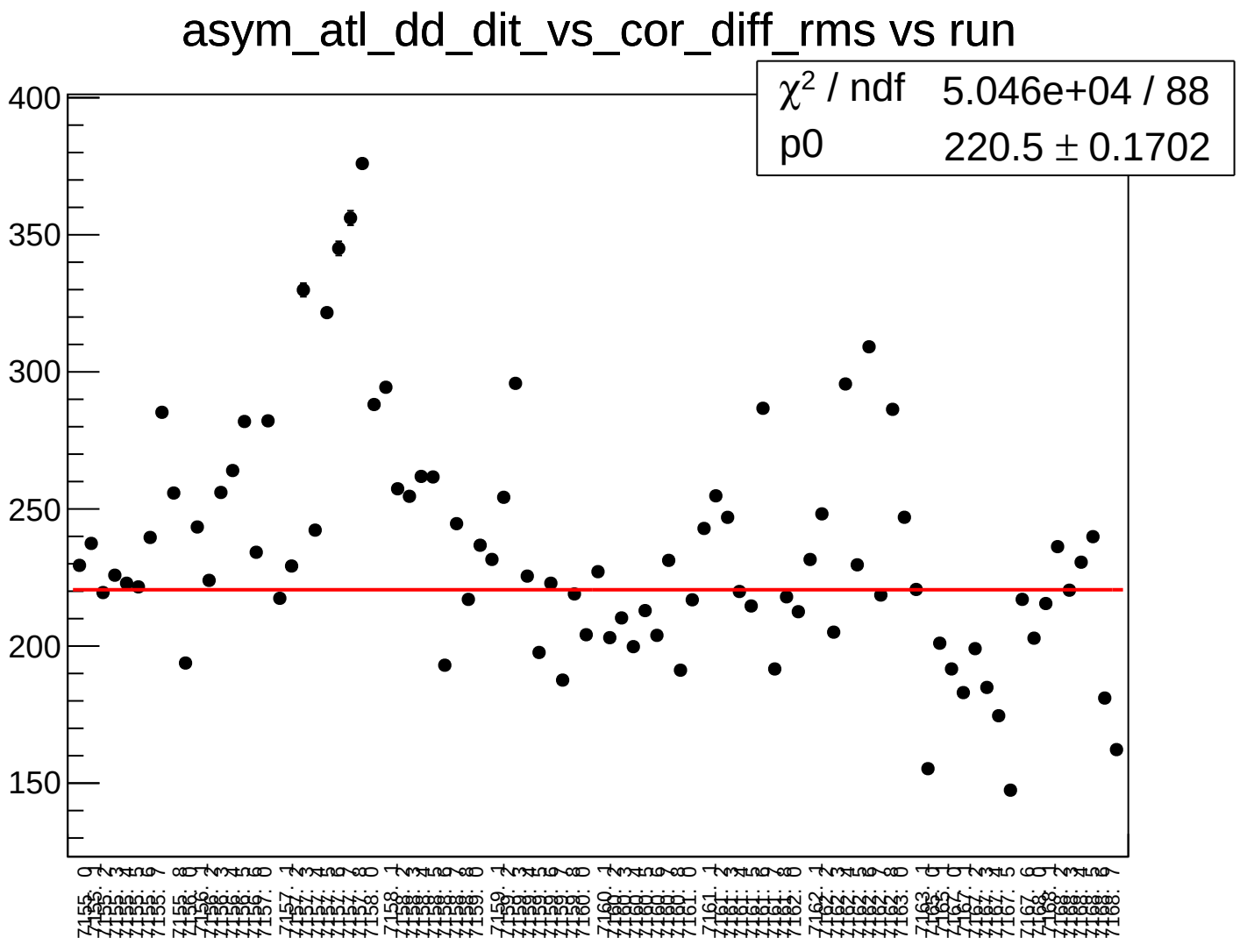

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 91.42 / 88
p0 −3.261e−13 ± 2.918e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 1280
Std Dev 0
3
2
1
0
−1
−2
−3

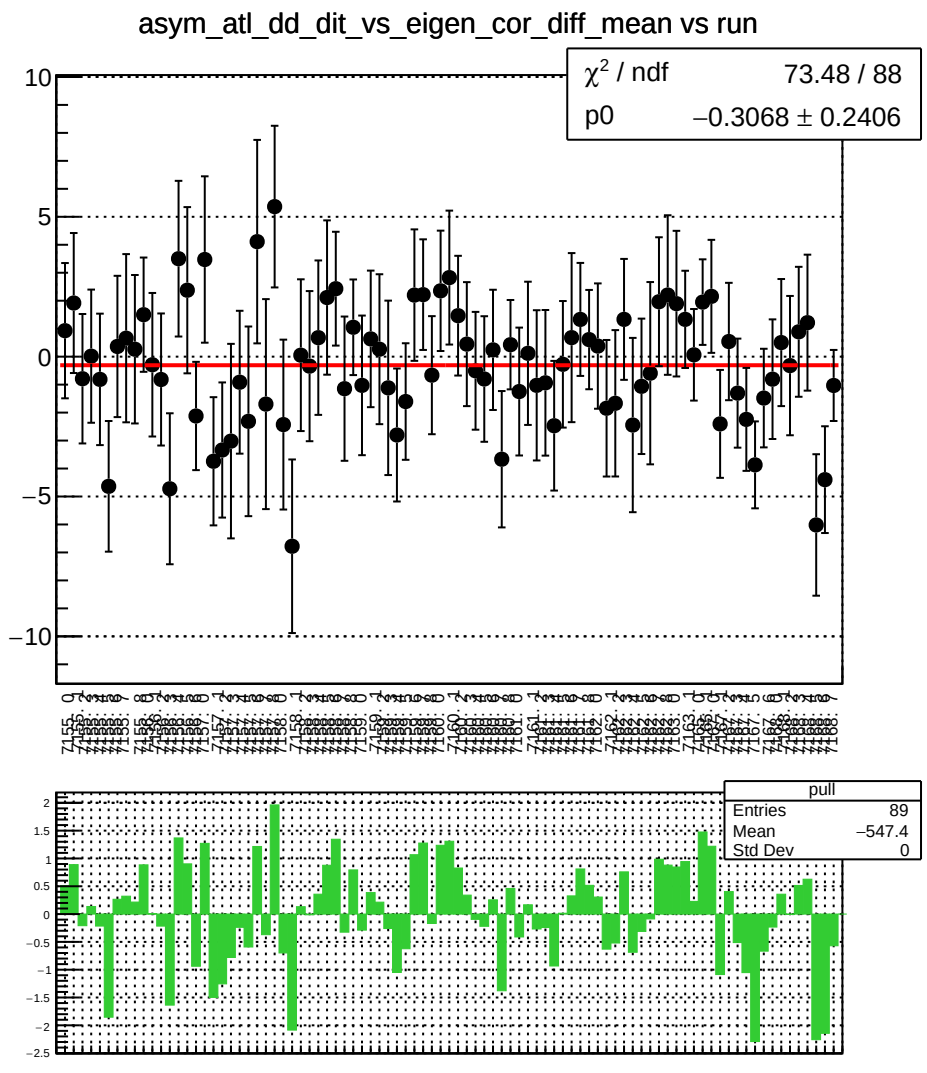

pull1D
Entries 89
Mean 0.0009677
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

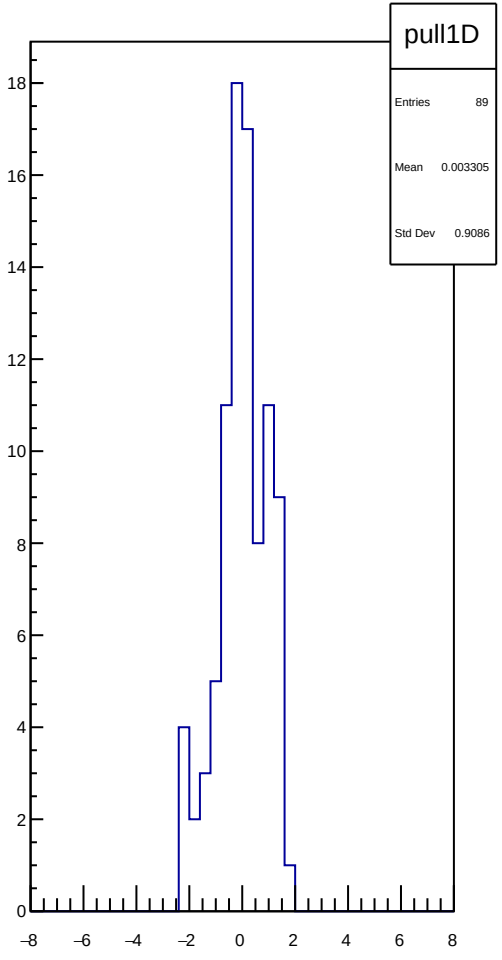

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.211e+06 / 88
p0 1.487e−10 ± 2.063e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

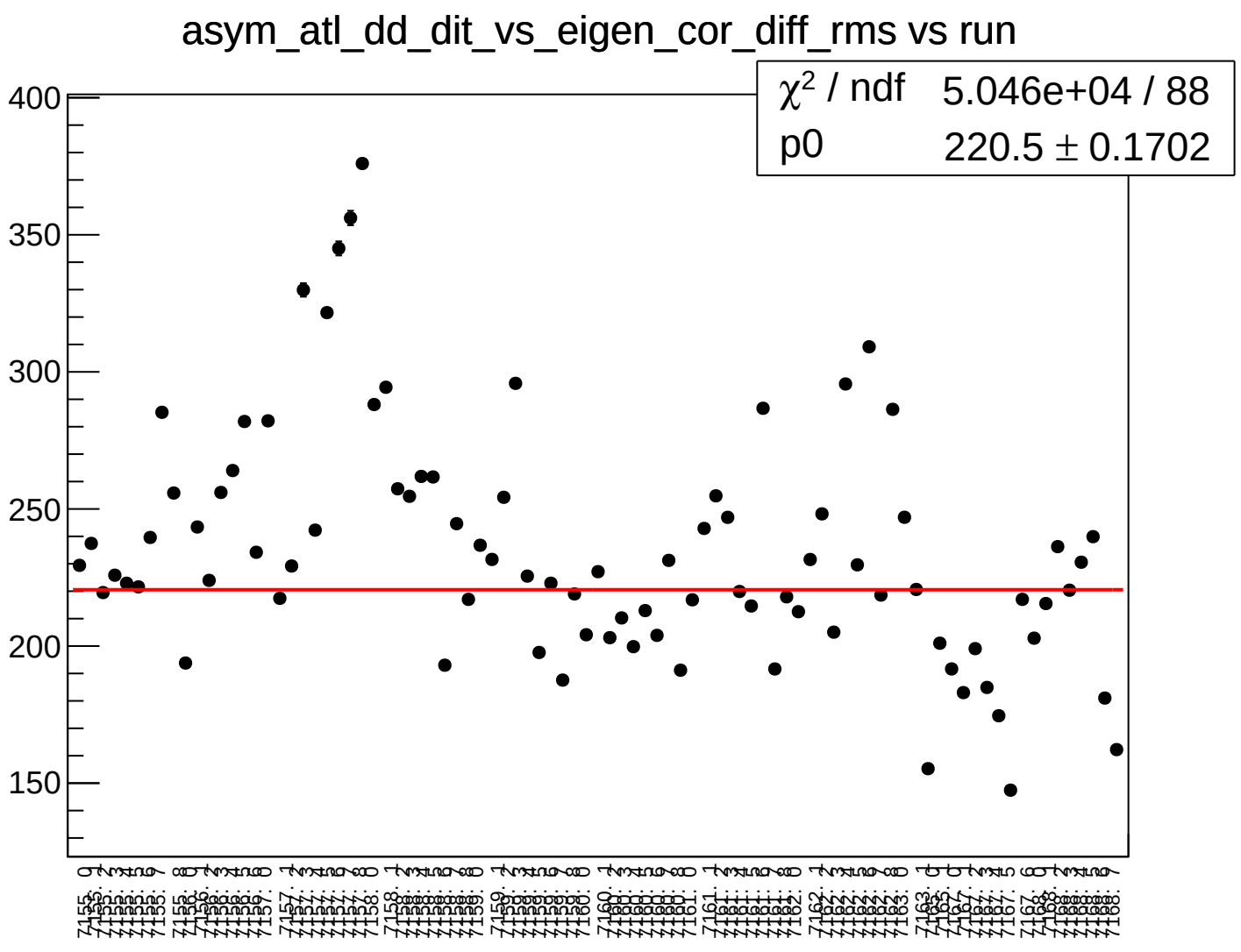

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.48 / 88
p0 −0.3068 ± 0.2406
pull
Entries 89
Mean −547.4
Std Dev 0

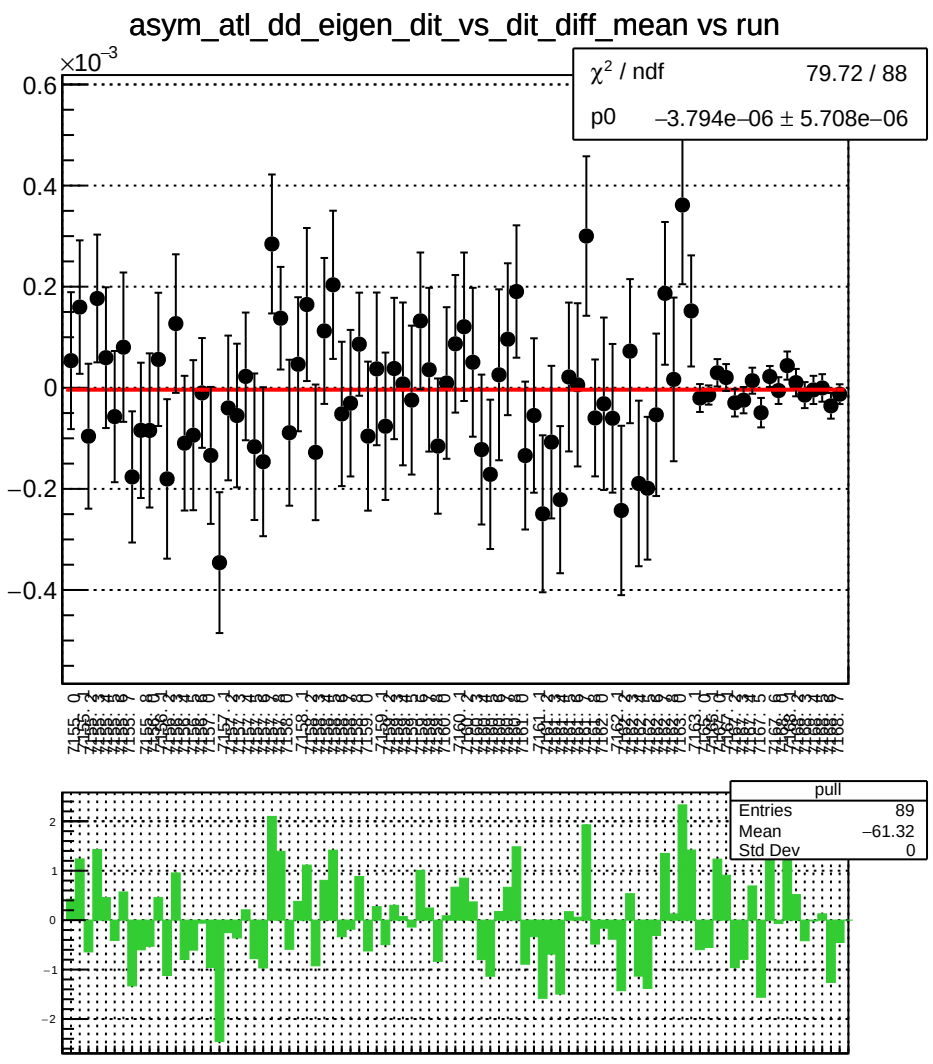

pull1D
Entries 89
Mean 0.003305
Std Dev 0.9086

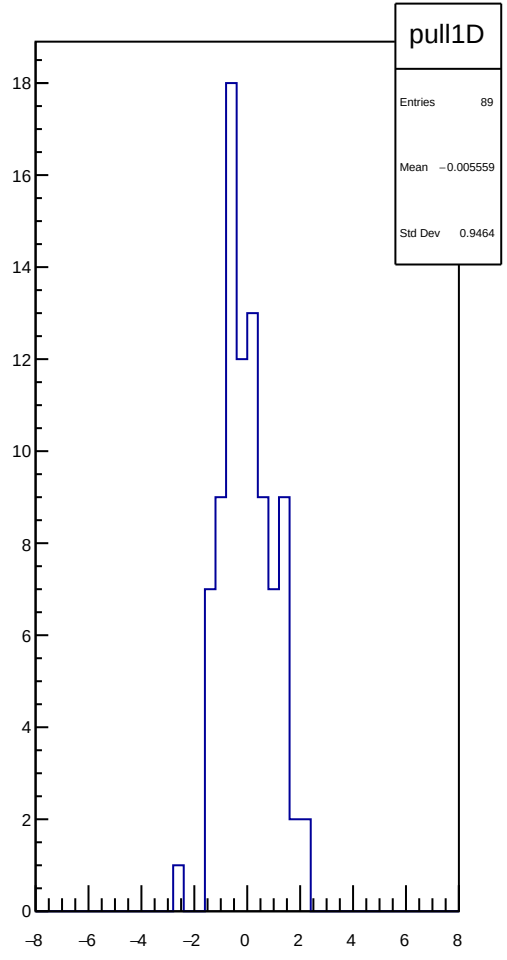

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.046e+04 / 88
p0 220.5 ± 0.1702
400
350
300
250
200
150

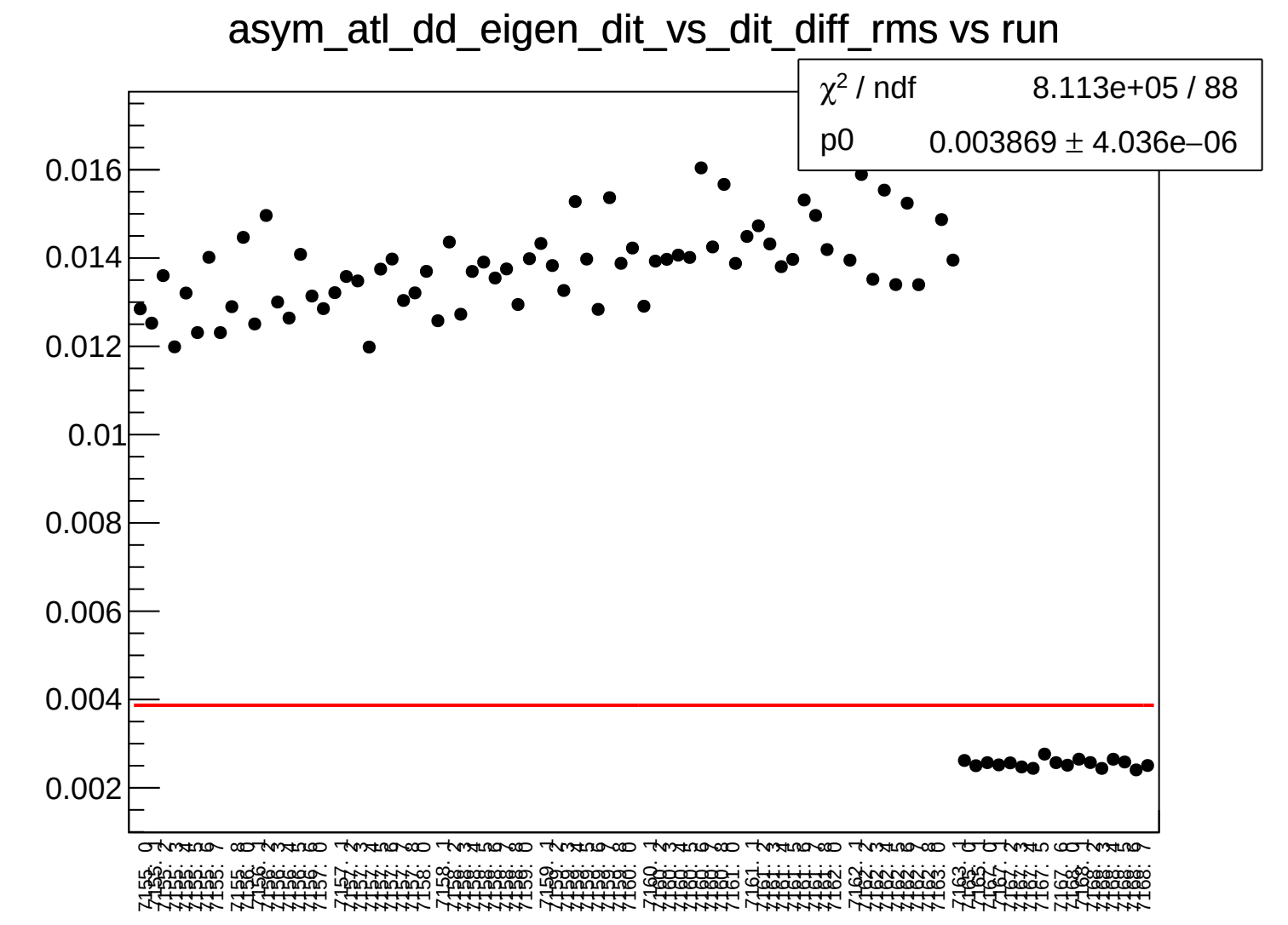

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.48 / 88
p0 −0.3068 ± 0.2406
pull
Entries 89
Mean −547.4
Std Dev 0

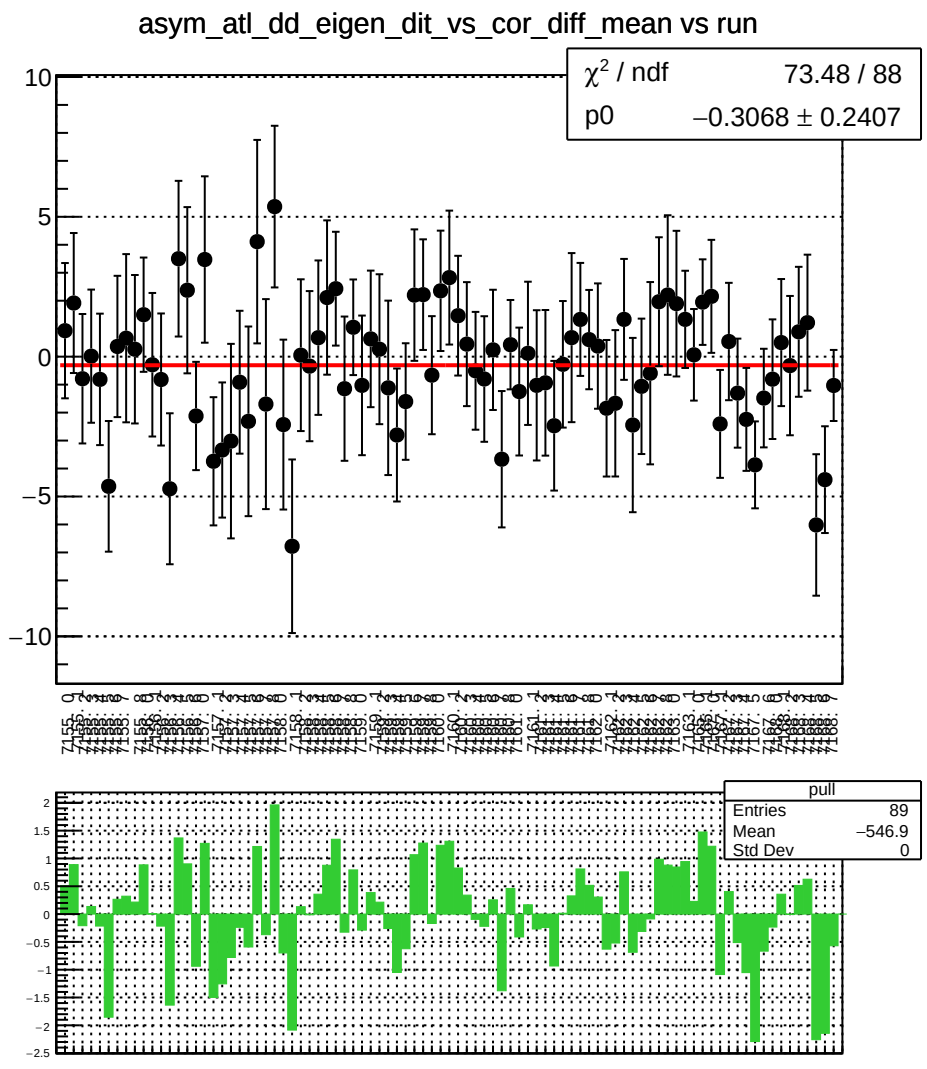

pull1D
Entries 89
Mean 0.003305
Std Dev 0.9086

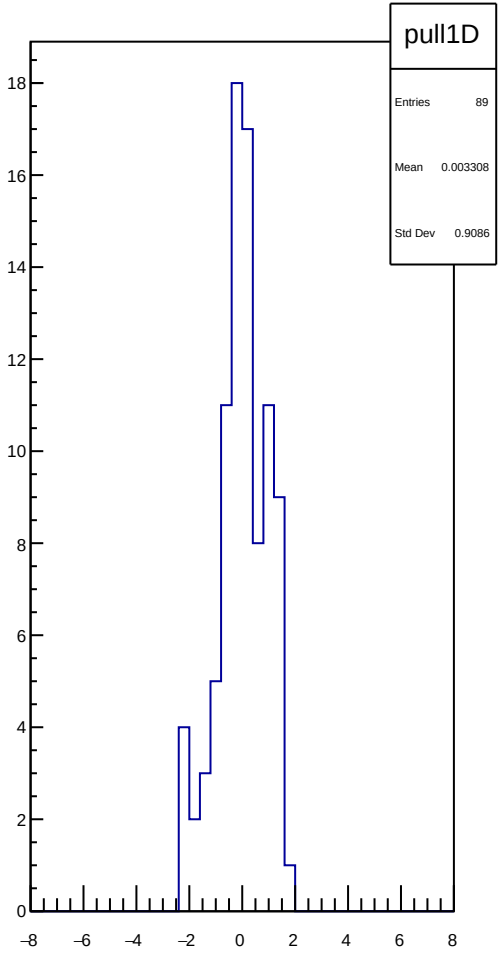

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.046e+04 / 88
p0 220.5 ± 0.1702
400
350
300
250
200
150

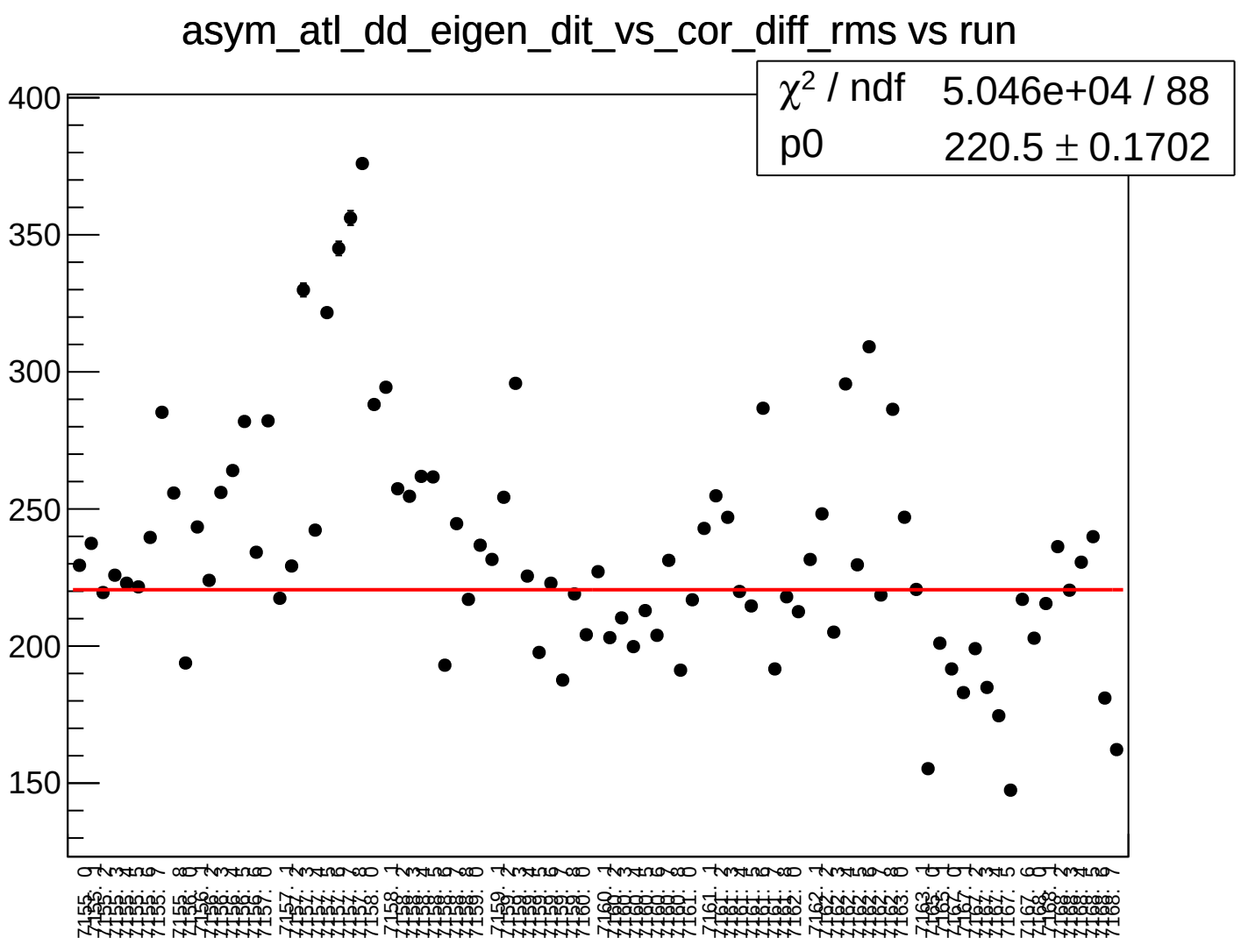

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.72 / 88
p0 −3.794e−06 ± 5.708e−06
pull
Entries 89
Mean −61.32
Std Dev 0

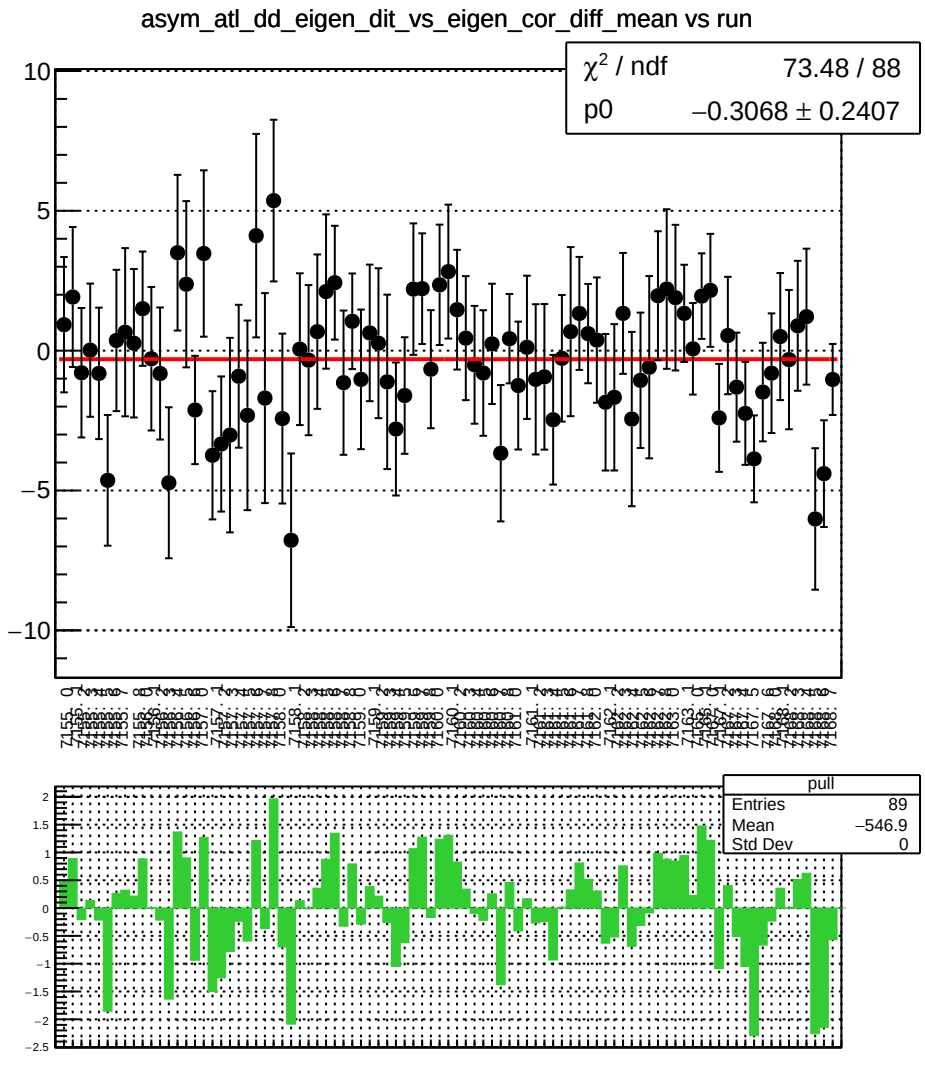

pull1D
Entries 89
Mean −0.005559
Std Dev 0.9464

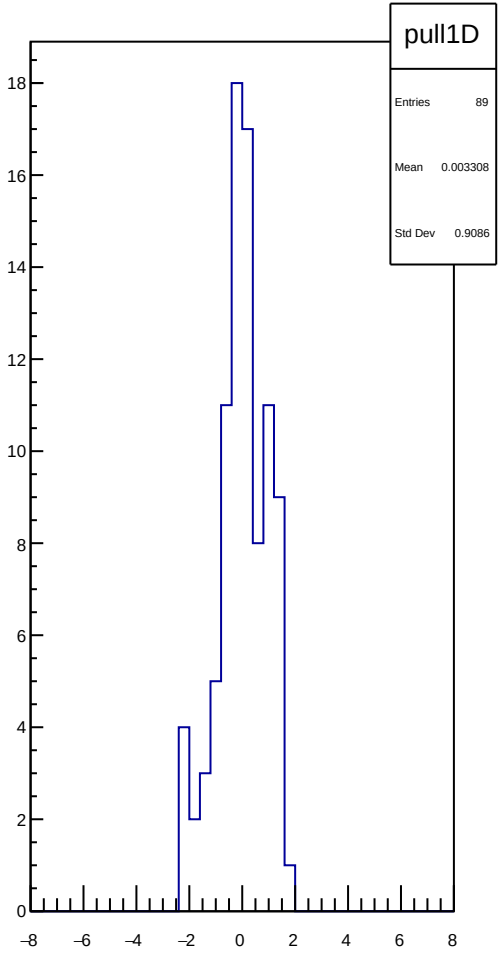

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.113e+05 / 88
p0 0.003869 ± 4.036e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

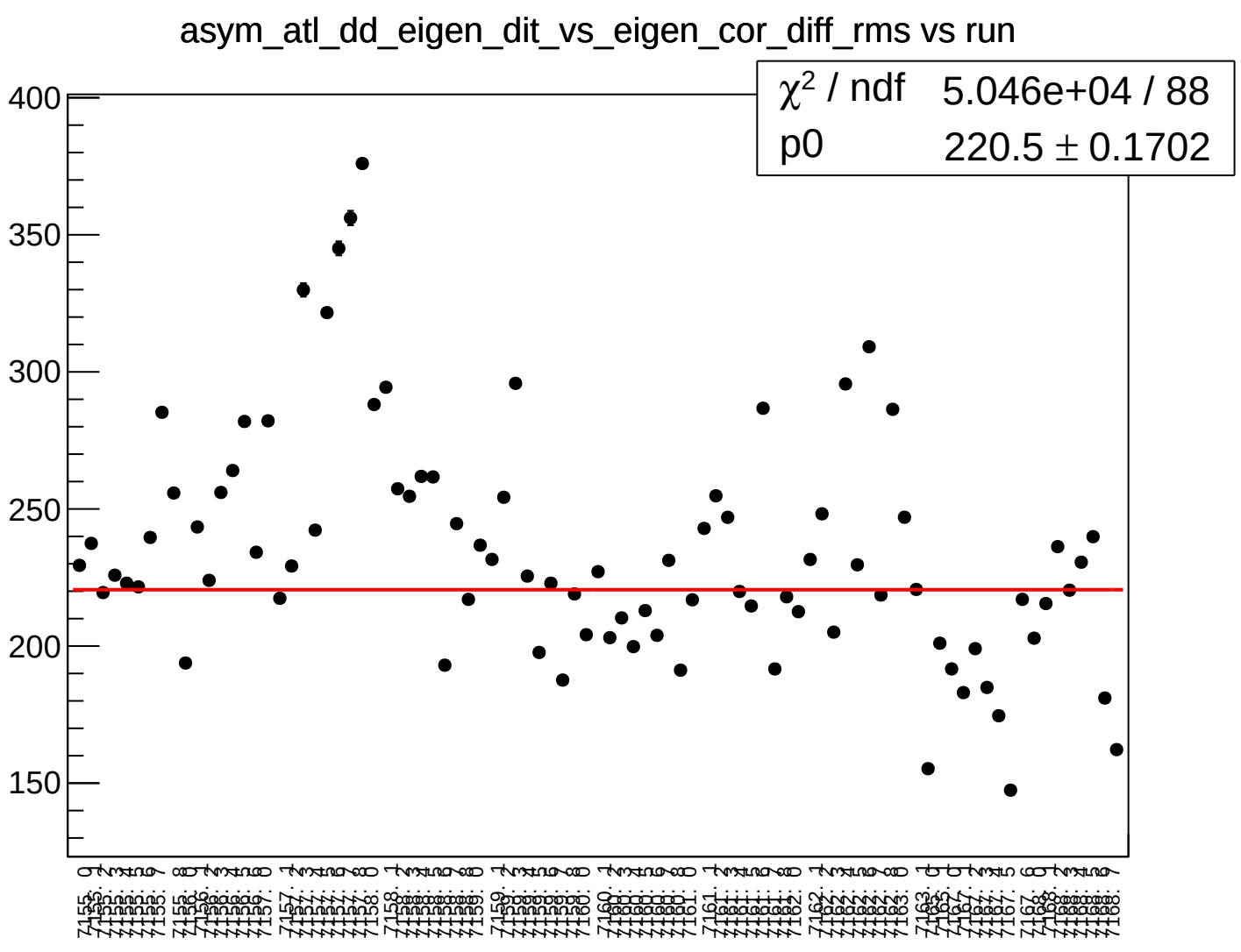

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.48 / 88
p0 −0.3068 ± 0.2407
pull
Entries 89
Mean −546.9
Std Dev 0

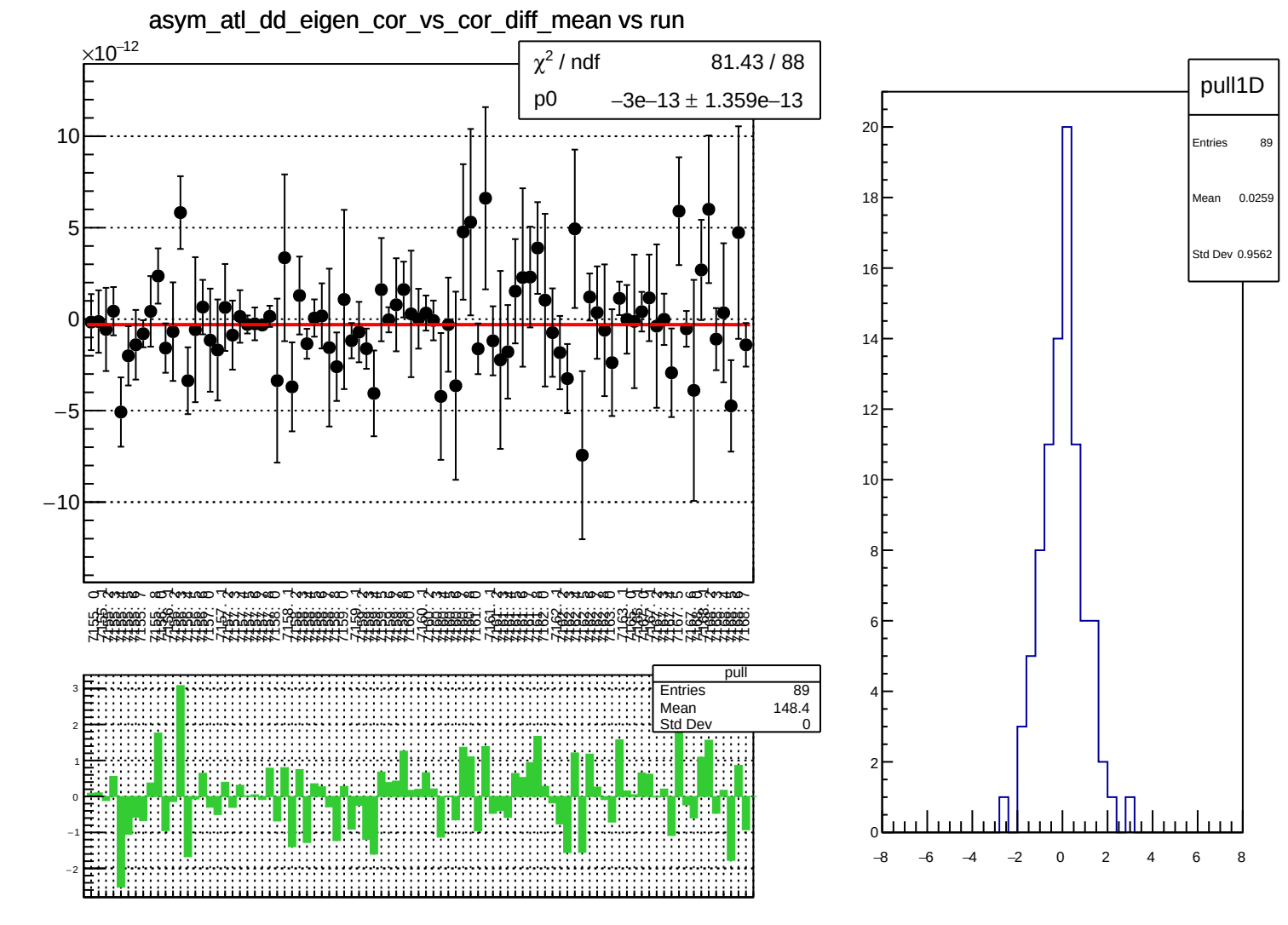

pull1D
Entries 89
Mean 0.003308
Std Dev 0.9086

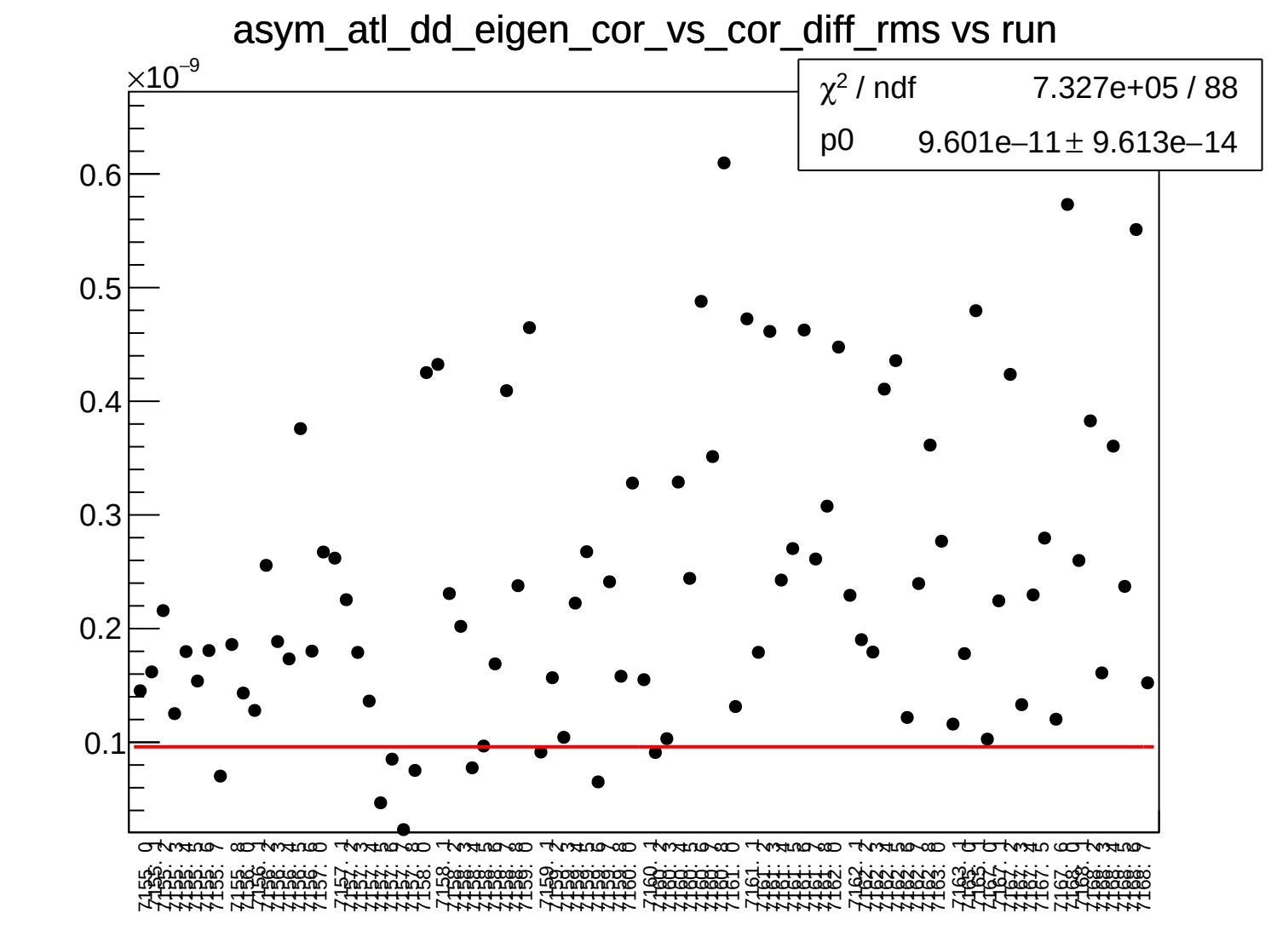

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.046e+04 / 88
p0 220.5 ± 0.1702
400
350
300
250
200
150

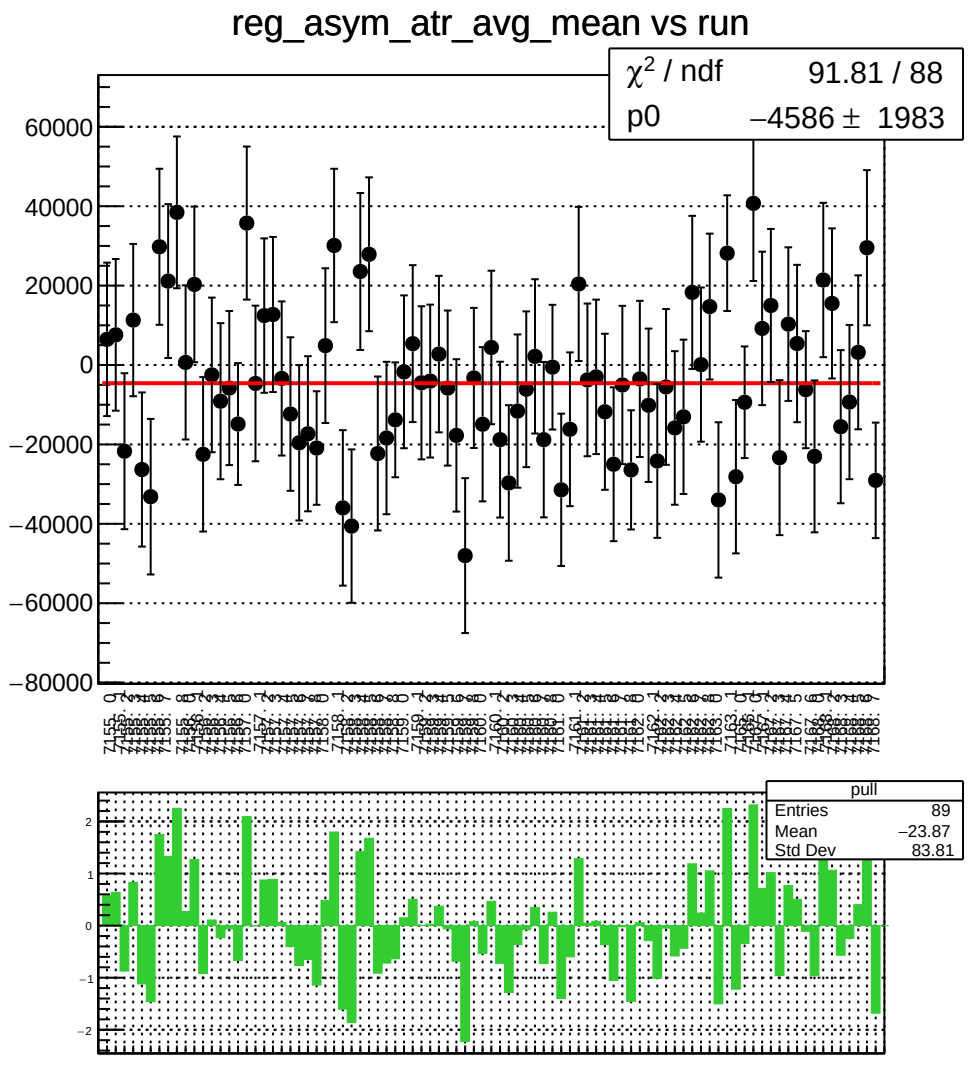

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.48 / 88
p0 −0.3068 ± 0.2407
pull
Entries 89
Mean −546.9
Std Dev 0

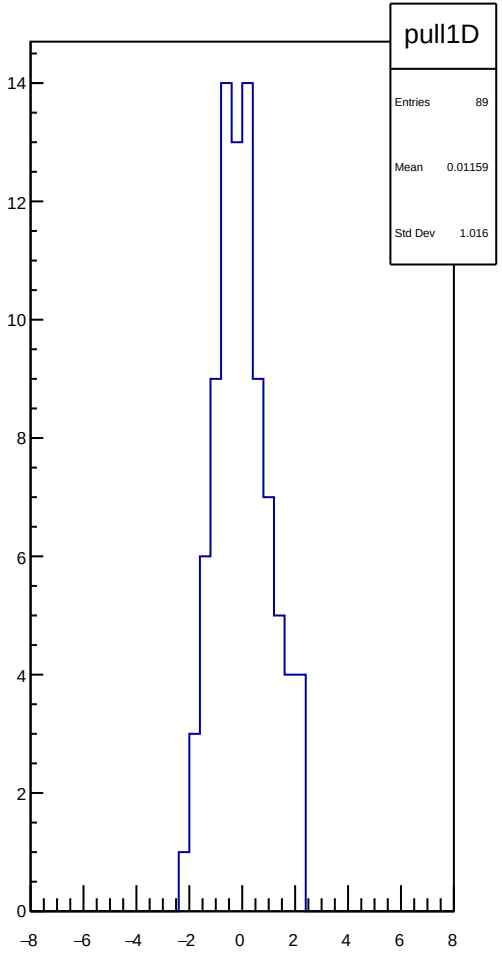

pull1D
Entries 89
Mean 0.003308
Std Dev 0.9086

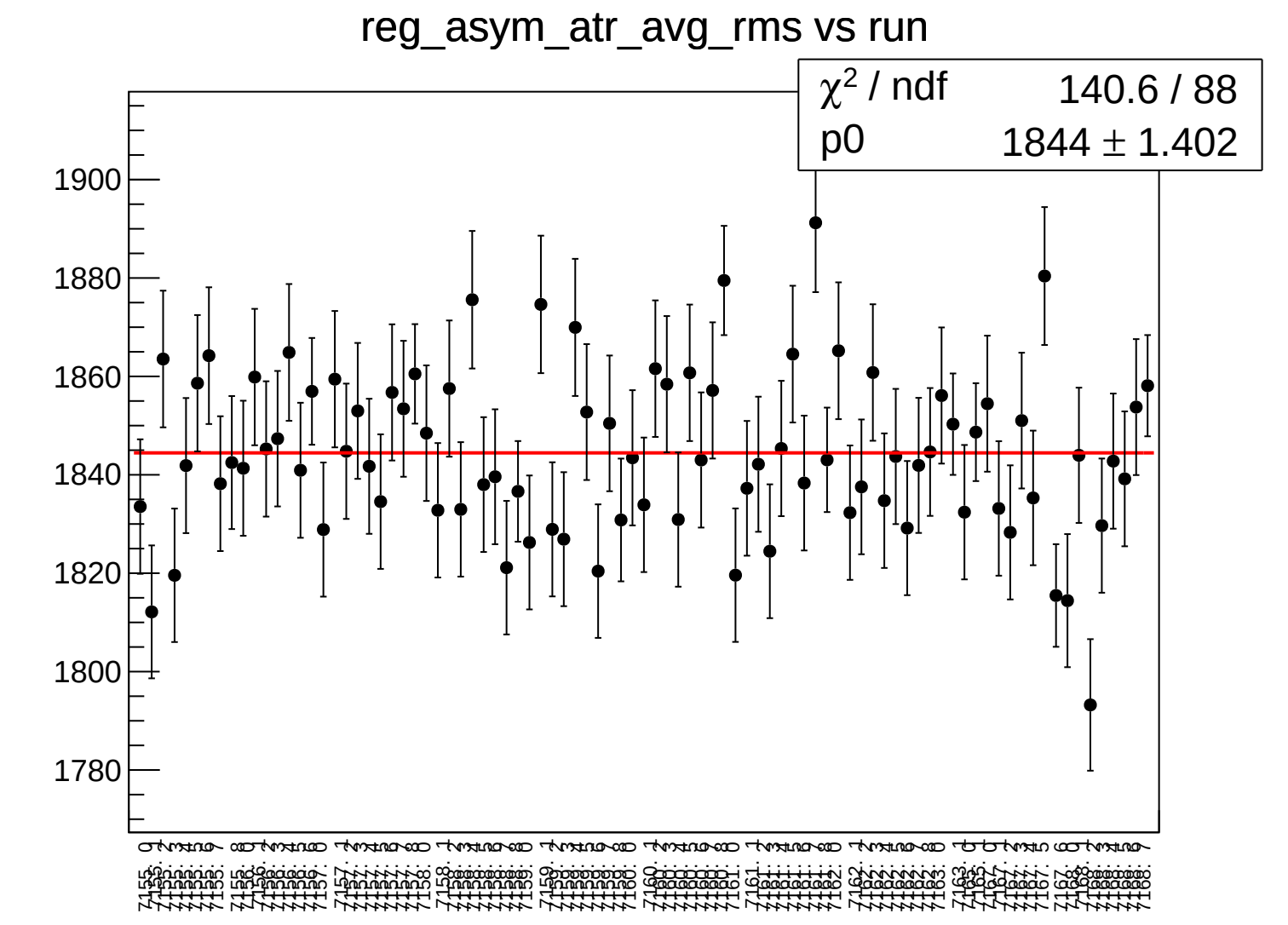

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.046e+04 / 88
p0 220.5 ± 0.1702
400
350
300
250
200
150

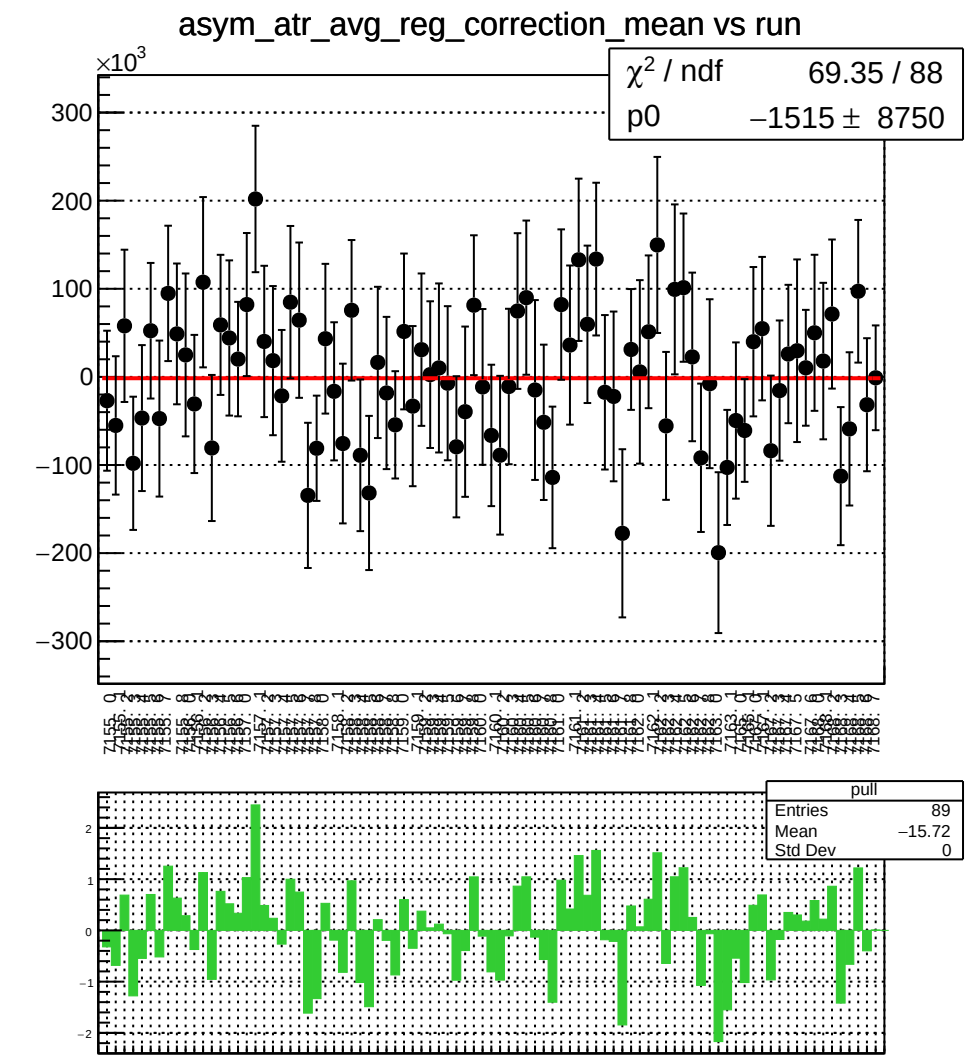

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.43 / 88
p0 −3e−13 ± 1.359e−13
pull
Entries 89
Mean 148.4
Std Dev 0
pull1D
Entries 89
Mean 0.0259
Std Dev 0.9562

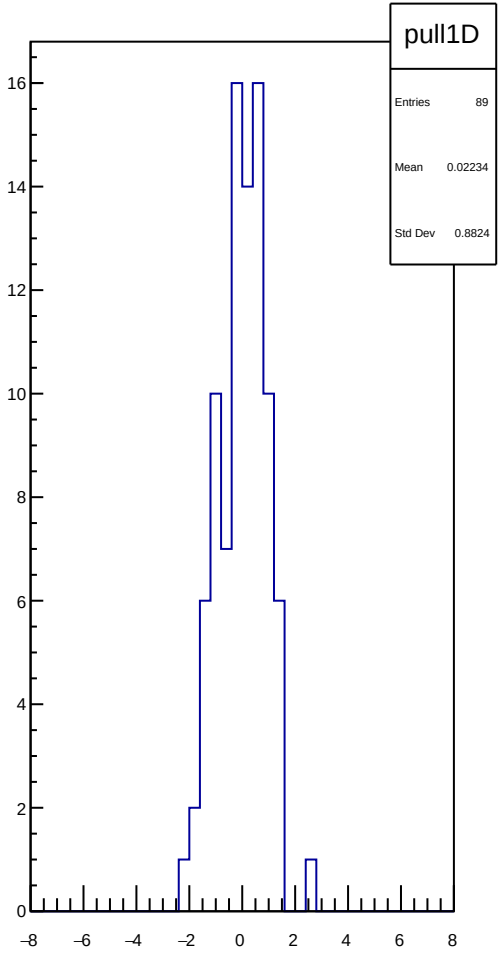

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.327e+05 / 88
p0 9.601e−11 ± 9.613e−14
0.6
0.5
0.4
0.3
0.2
0.1

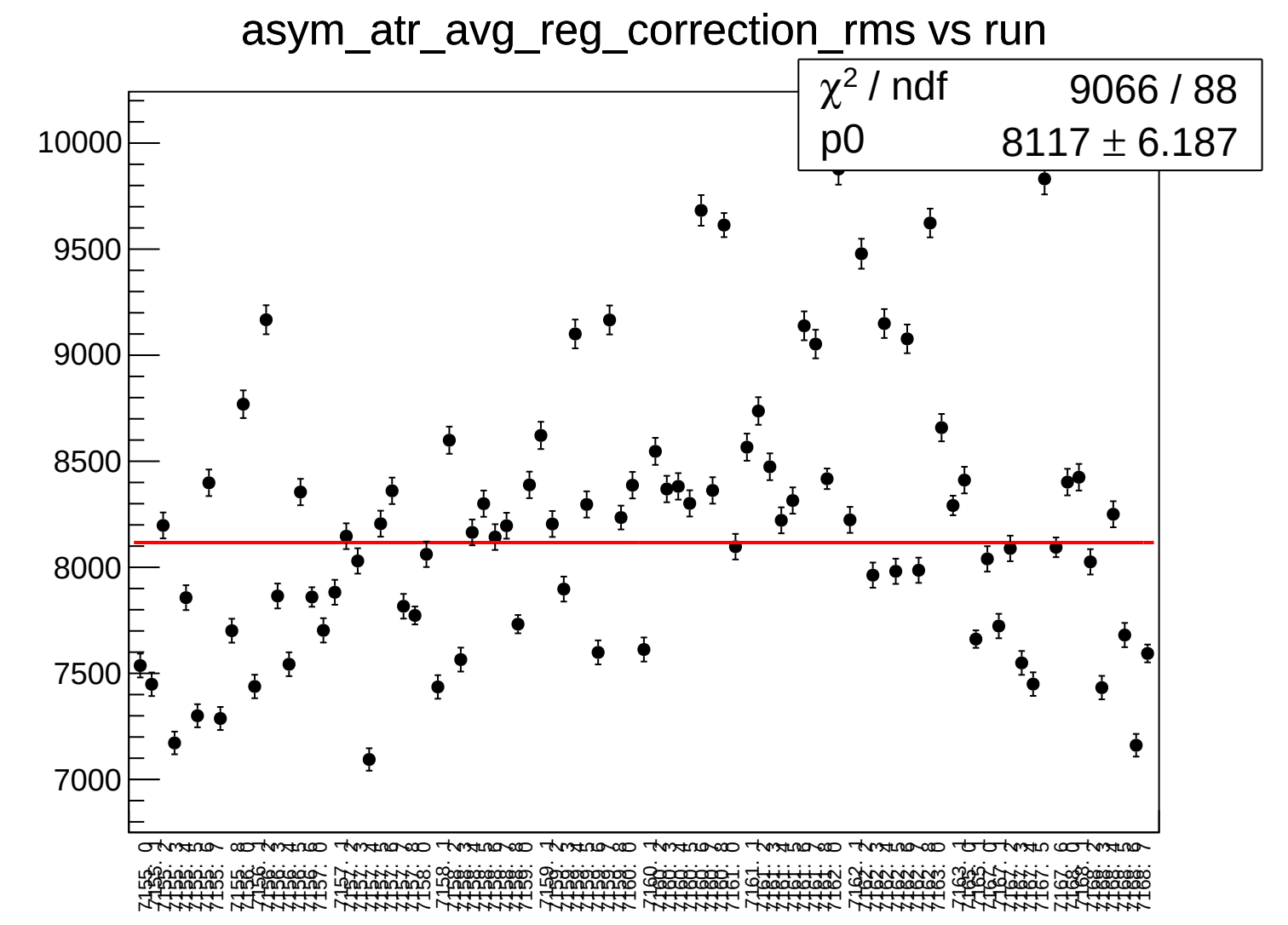

reg_asym_atr_avg_mean vs run
χ² / ndf 91.81 / 88
p0 −4586 ± 1983
pull
Entries 89
Mean −23.87
Std Dev 83.81

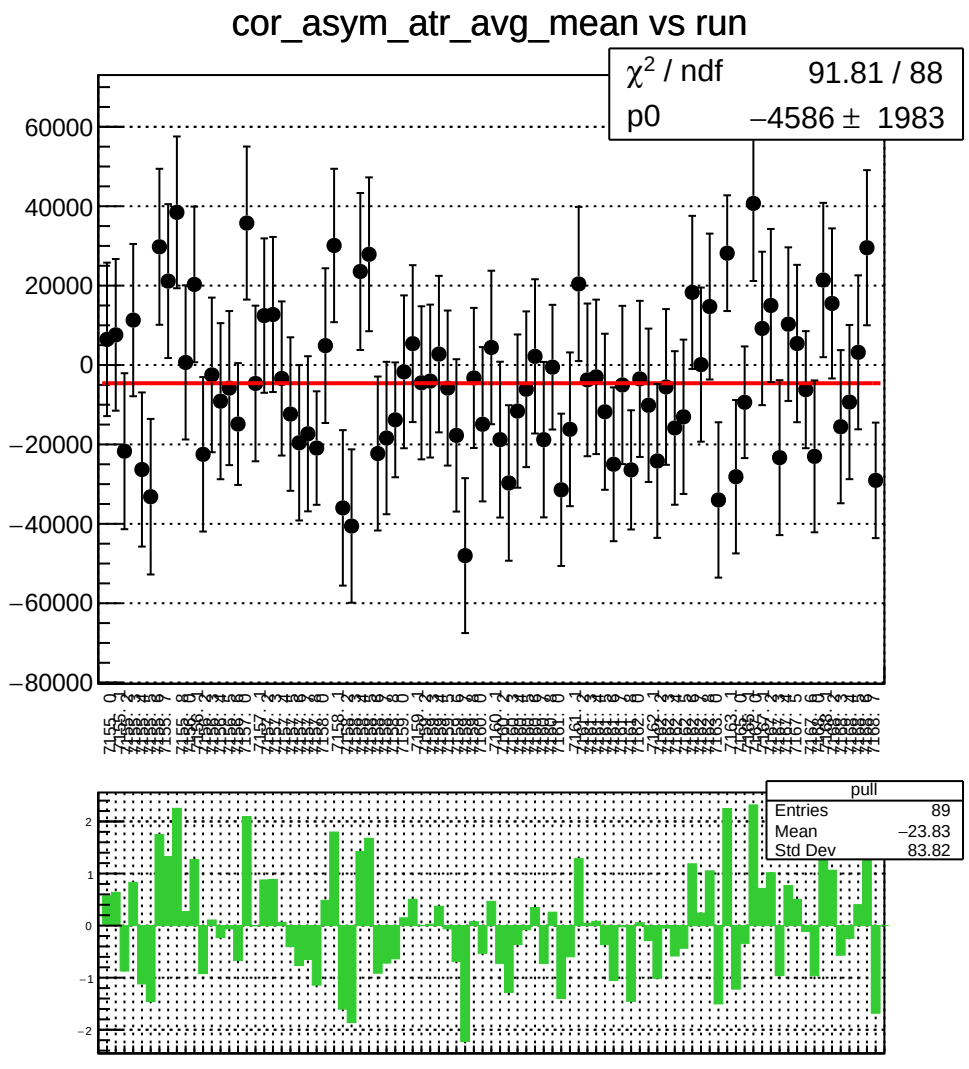

pull1D
Entries 89
Mean 0.01159
Std Dev 1.016

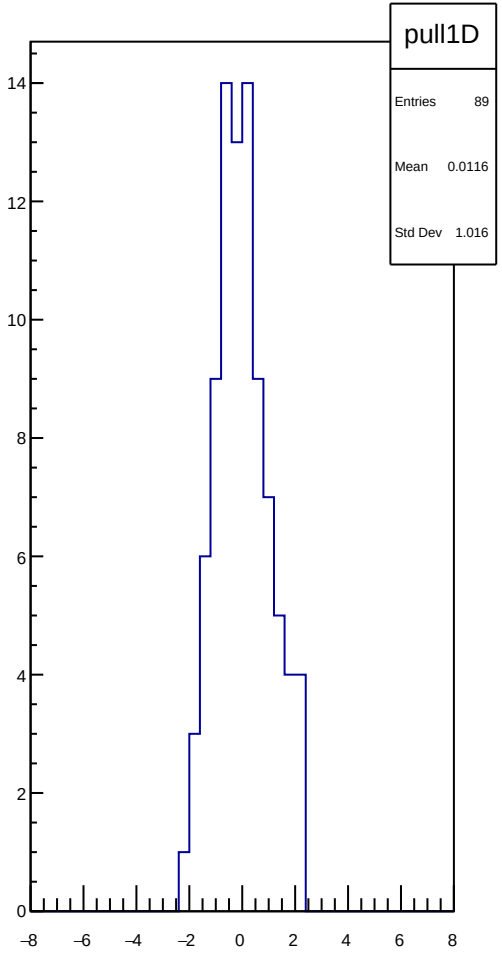

reg_asym_atr_avg_rms vs run
χ^2 / ndf 140.6 / 88
p0 1844 ± 1.402
1900
1880
1860
1840
1820
1800
1780

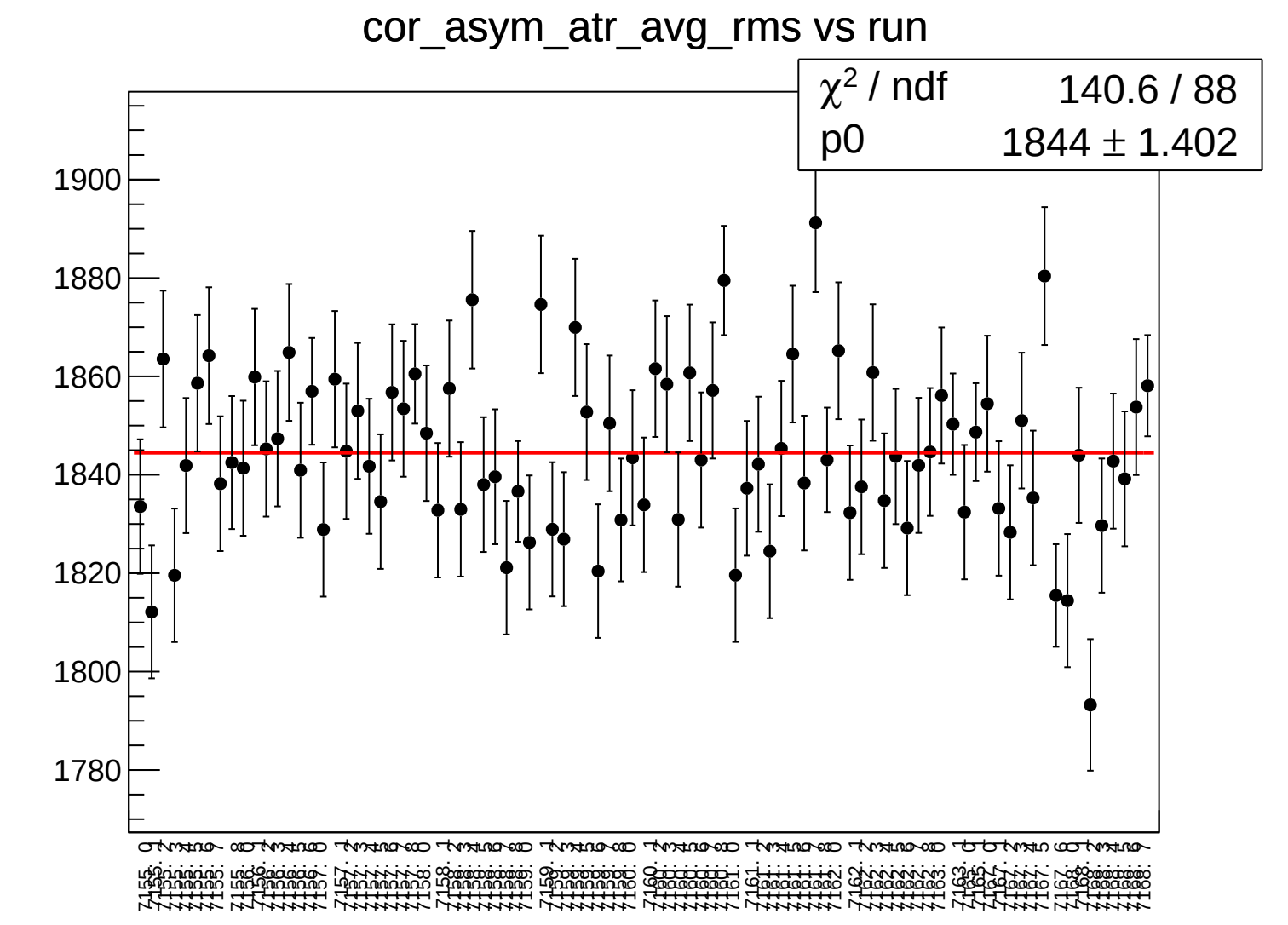

asym_atr_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.35 / 88
p0 −1515 ± 8750
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.72
Std Dev 0
2
1
0
−1
−2

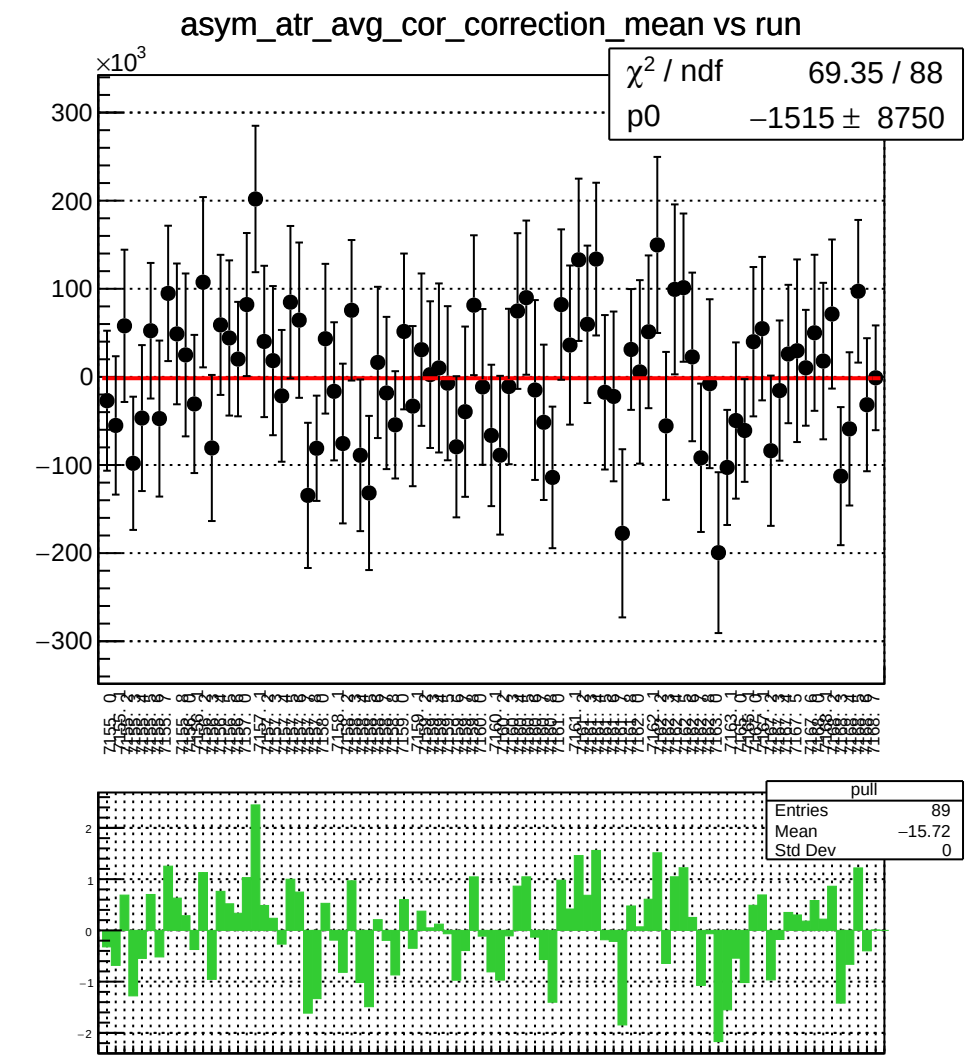

pull1D
Entries 89
Mean 0.02234
Std Dev 0.8824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

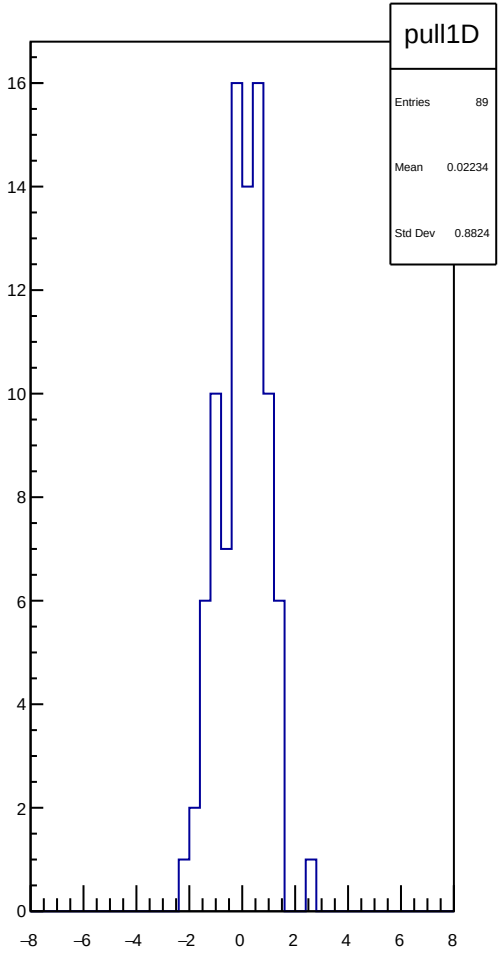

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 9066 / 88
p0 8117 ± 6.187
10000
9500
9000
8500
8000
7500
7000

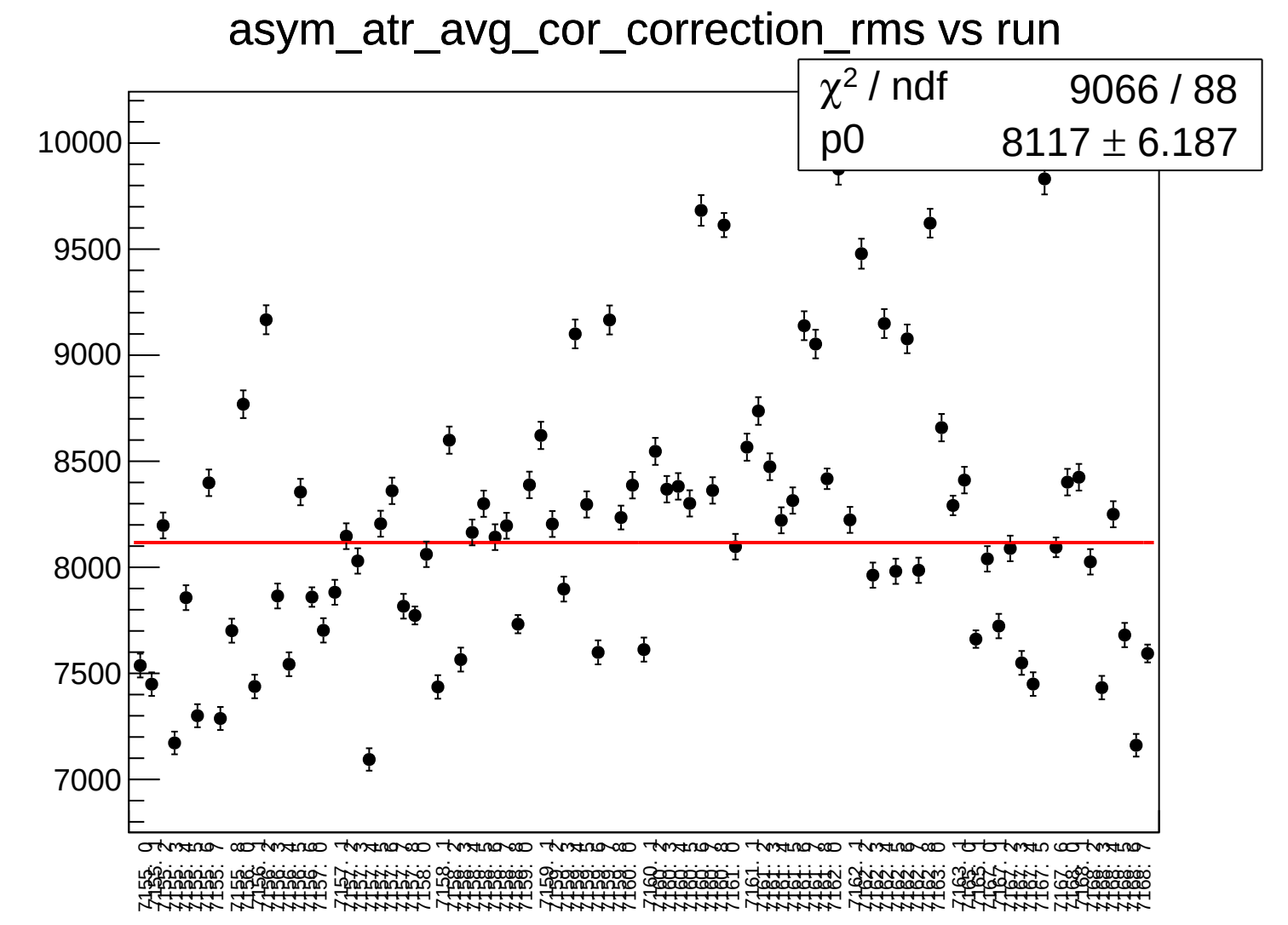

cor_asym_atr_avg_mean vs run
χ² / ndf 91.81 / 88
p0 −4586 ± 1983
pull
Entries 89
Mean −23.83
Std Dev 83.82

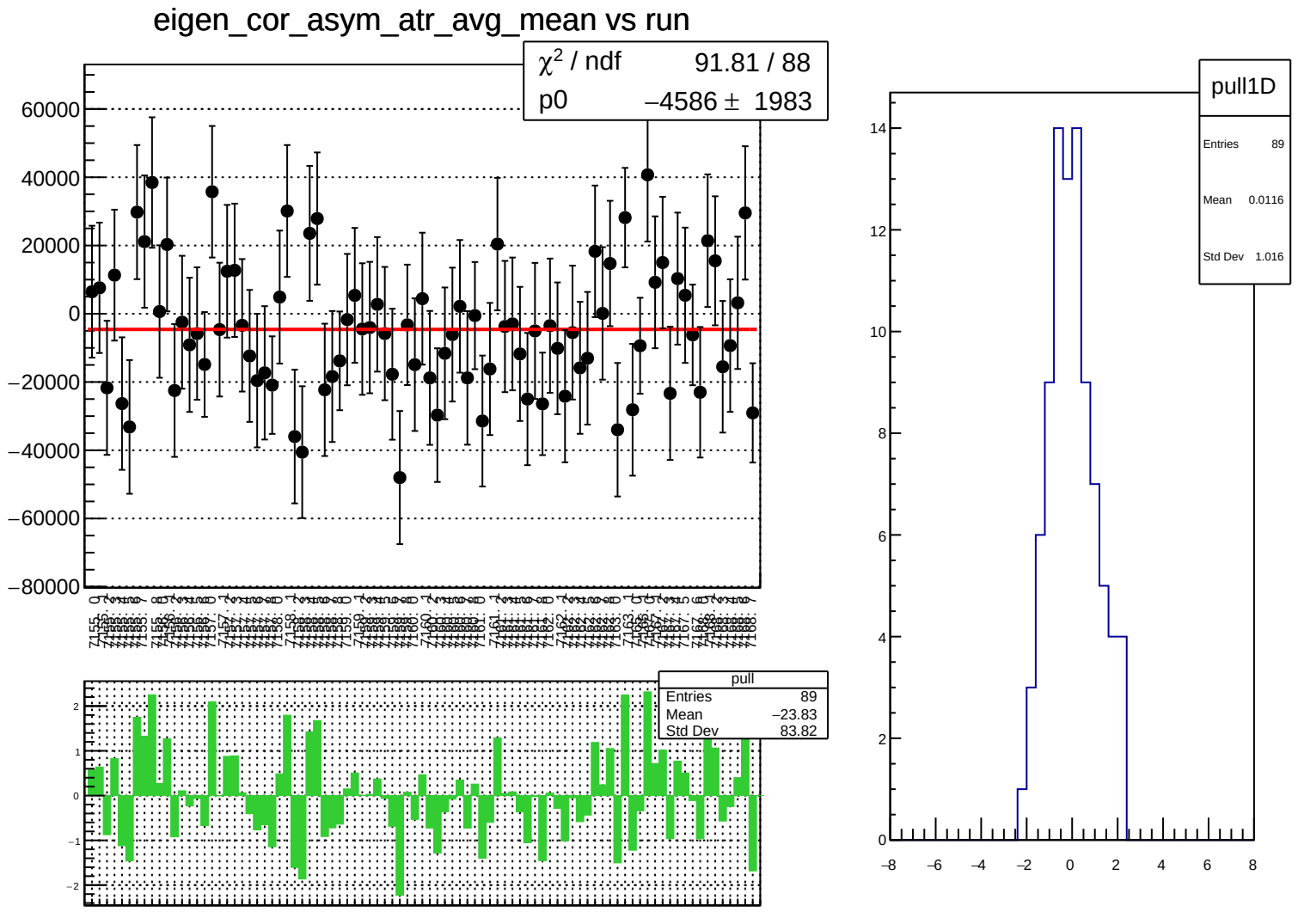

pull1D
Entries 89
Mean 0.0116
Std Dev 1.016

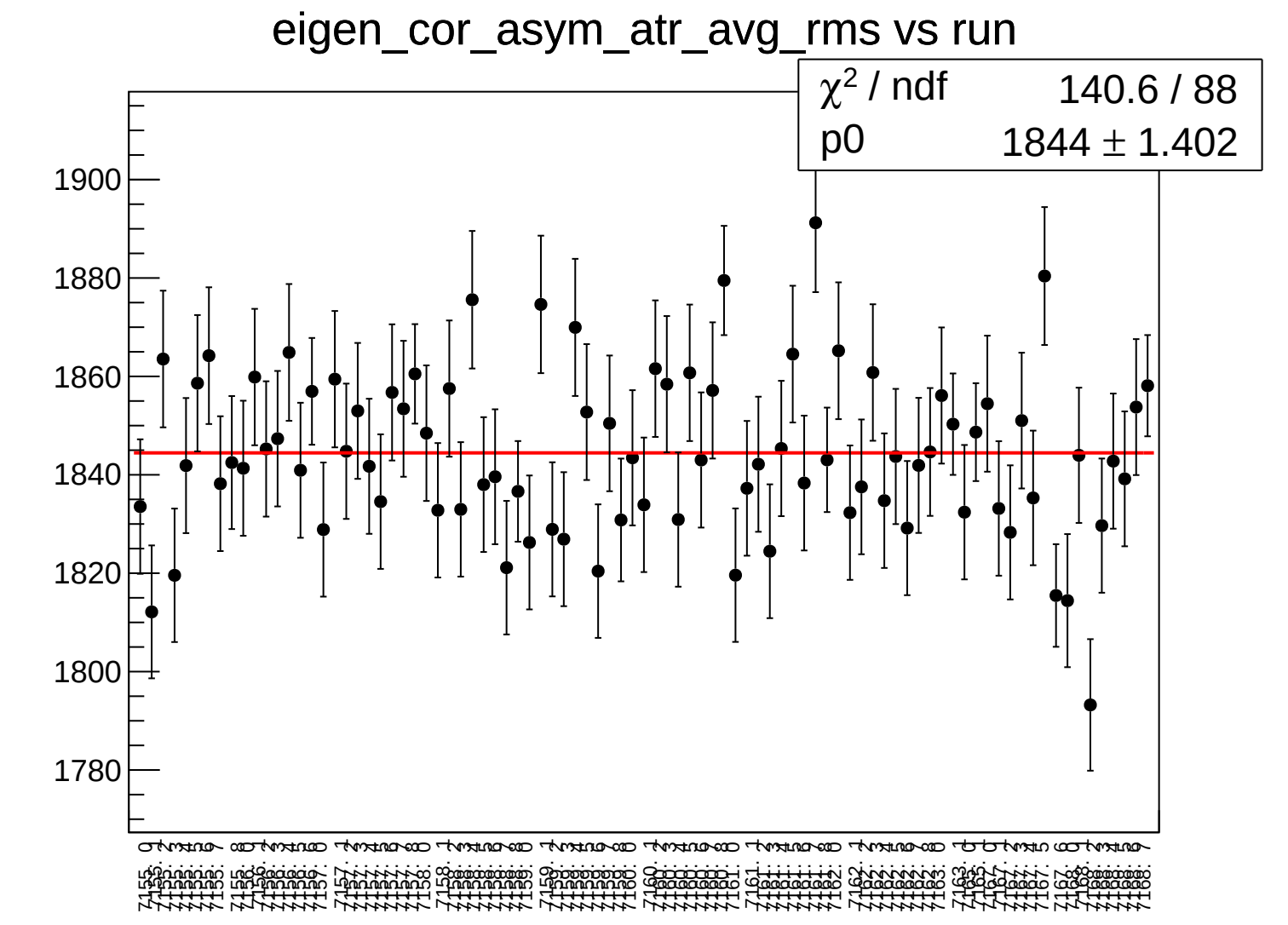

cor_asym_atr_avg_rms vs run
χ^2 / ndf 140.6 / 88
p0 1844 ± 1.402
1900
1880
1860
1840
1820
1800
1780

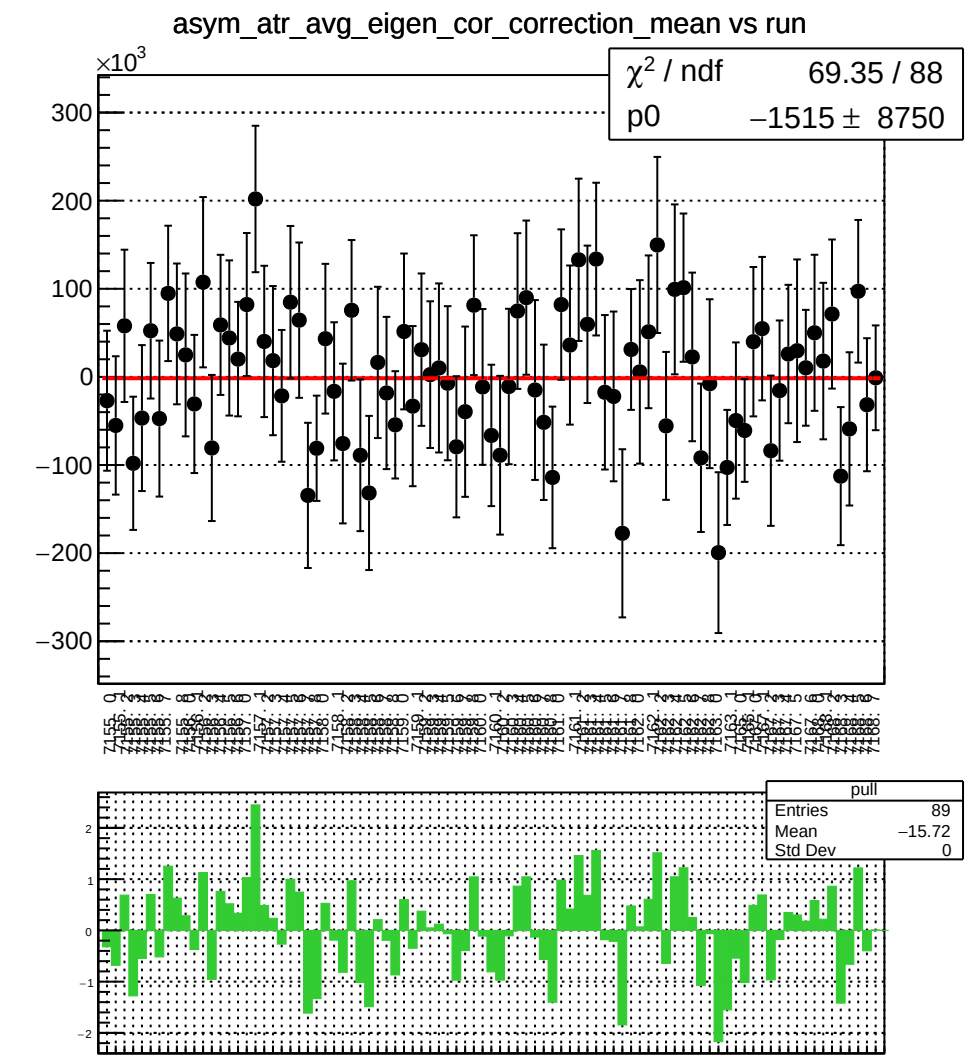

asym_atr_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.35 / 88
p0 −1515 ± 8750
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.72
Std Dev 0
2
1
0
−1
−2

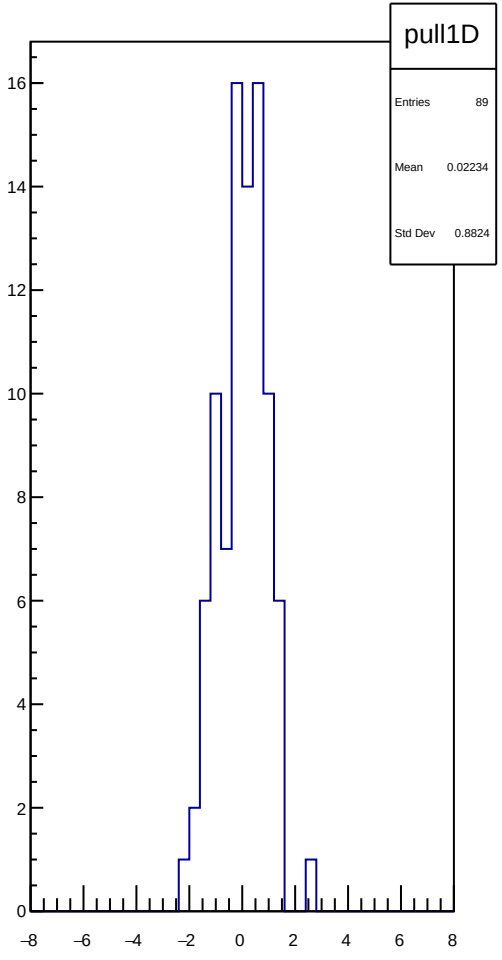

pull1D
Entries 89
Mean 0.02234
Std Dev 0.8824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

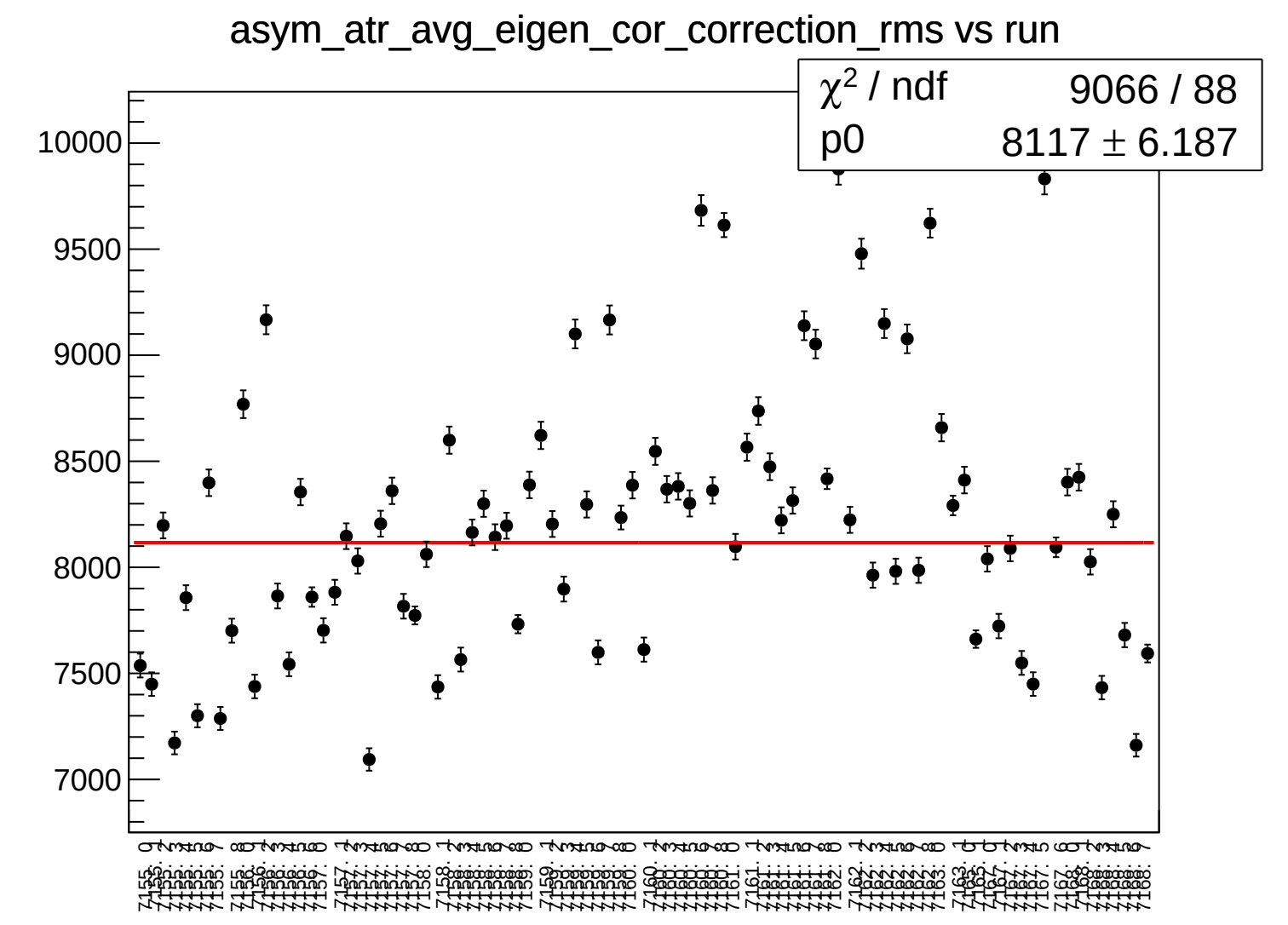

asym_atr_avg_cor_correction_rms vs run
χ^2 / ndf 9066 / 88
p0 8117 ± 6.187
10000
9500
9000
8500
8000
7500
7000

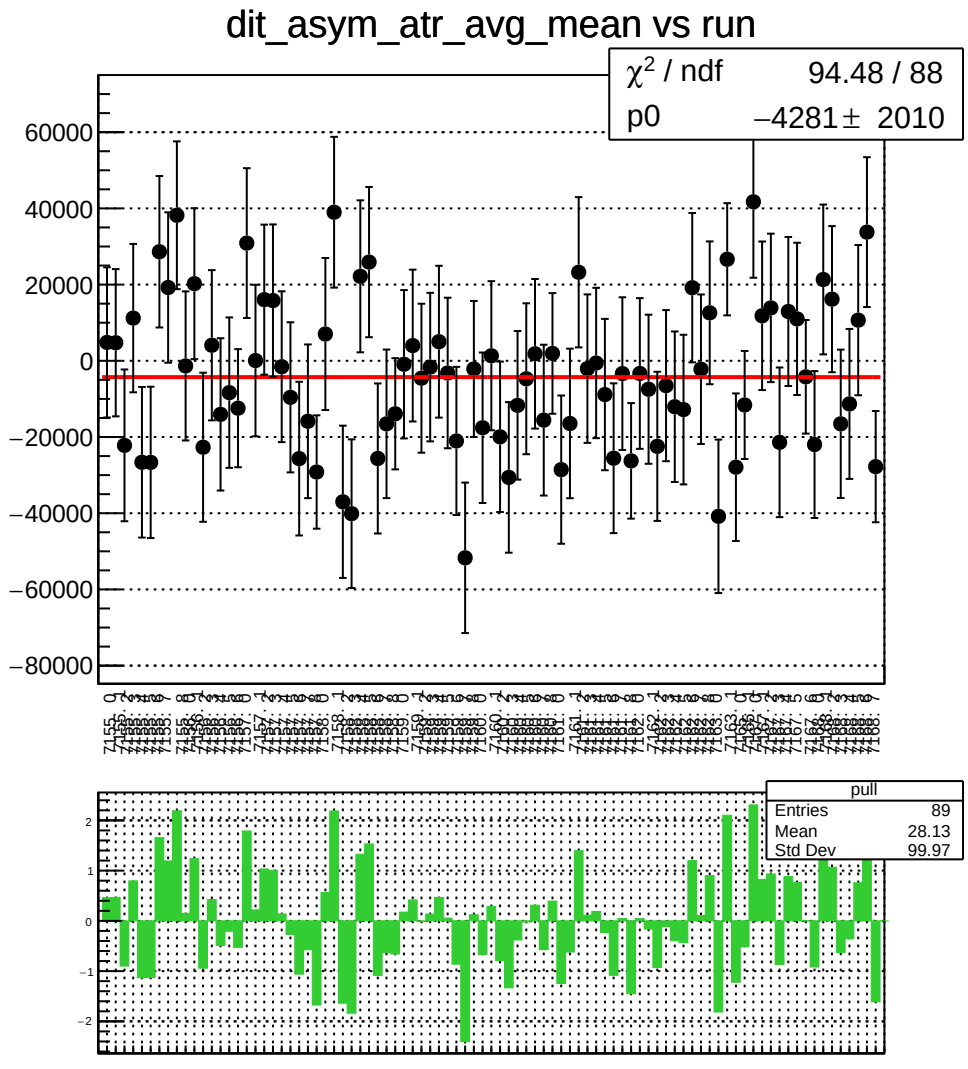

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 91.81 / 88
p0 −4586 ± 1983
pull
Entries 89
Mean −23.83
Std Dev 83.82
pull1D
Entries 89
Mean 0.0116
Std Dev 1.016

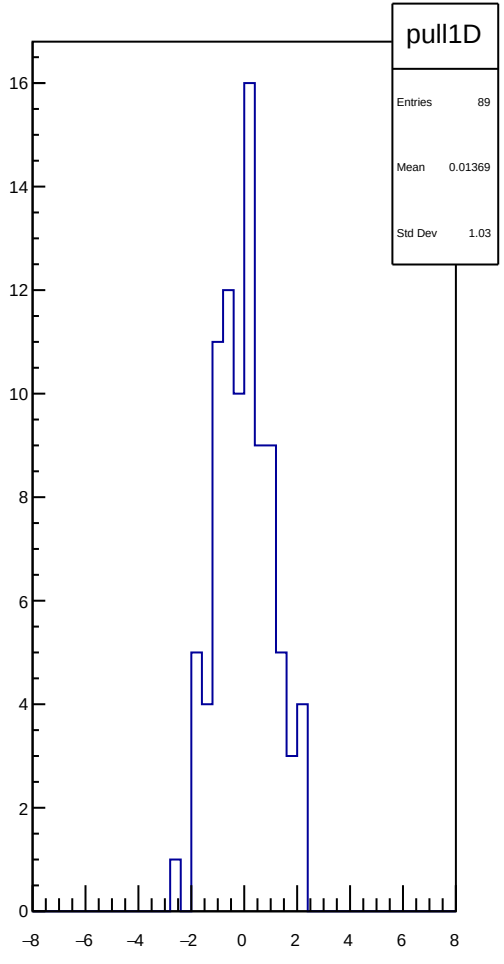

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 140.6 / 88
p0 1844 ± 1.402
1900
1880
1860
1840
1820
1800
1780

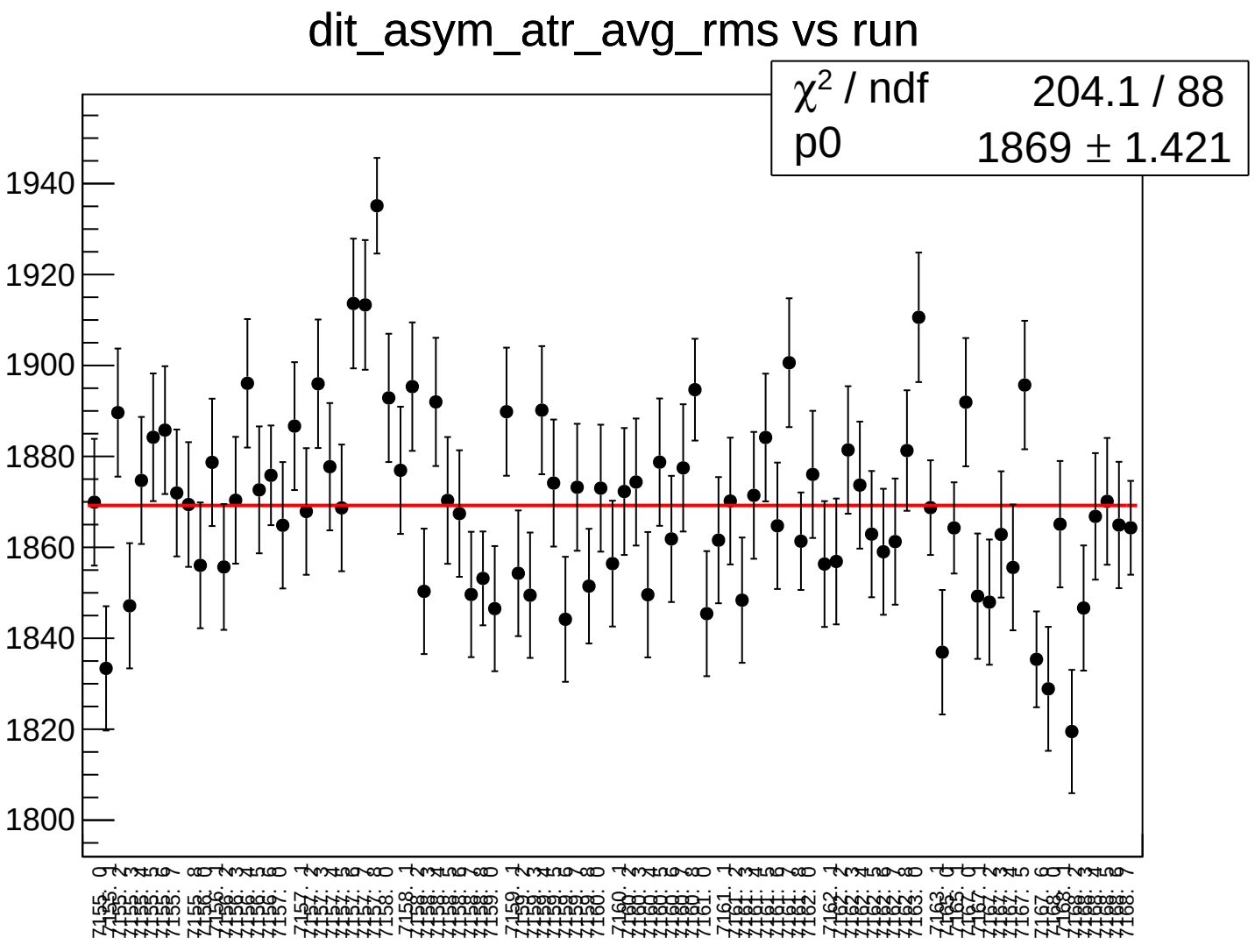

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.35 / 88
p0 −1515 ± 8750
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.72
Std Dev 0
2
1
0
−1
−2

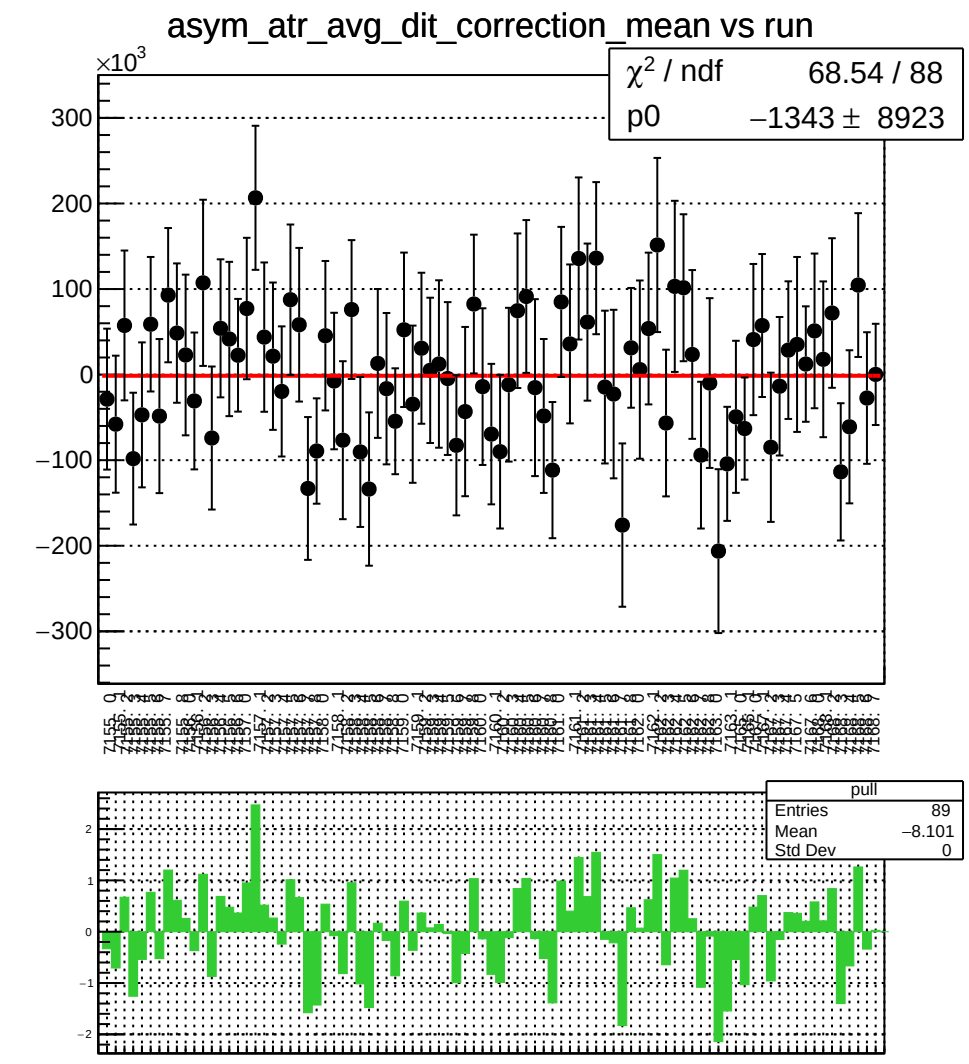

pull1D
Entries 89
Mean 0.02234
Std Dev 0.8824
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

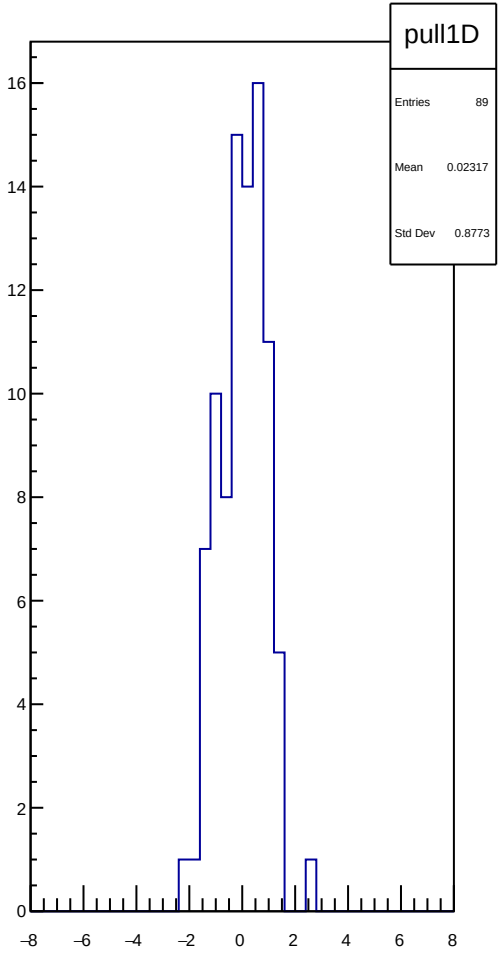

asym_atr_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9066 / 88
p0 8117 ± 6.187
10000
9500
9000
8500
8000
7500
7000

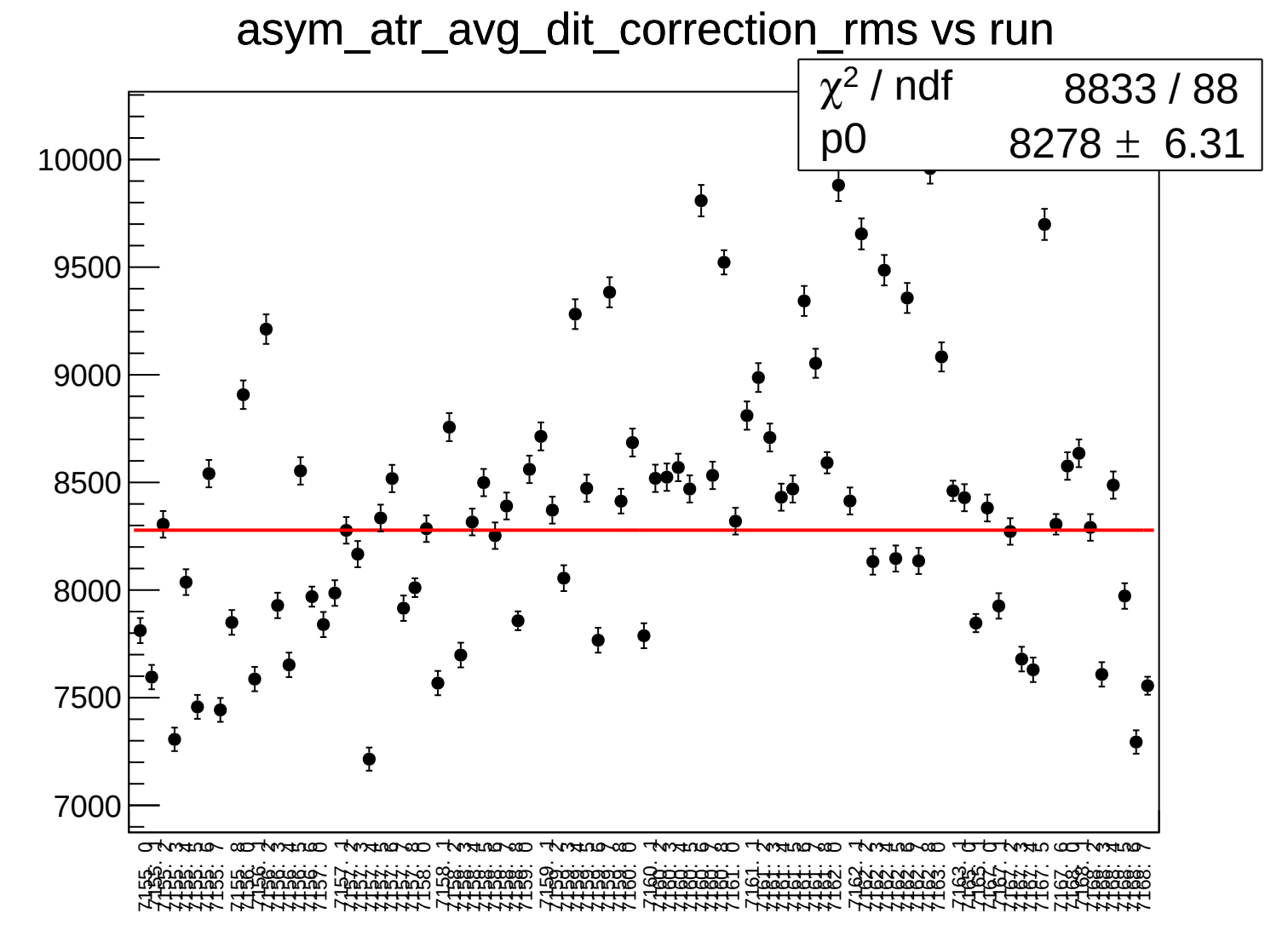

dit_asym_atr_avg_mean vs run
χ² / ndf 94.48 / 88
p0 −4281 ± 2010
pull
Entries 89
Mean 28.13
Std Dev 99.97

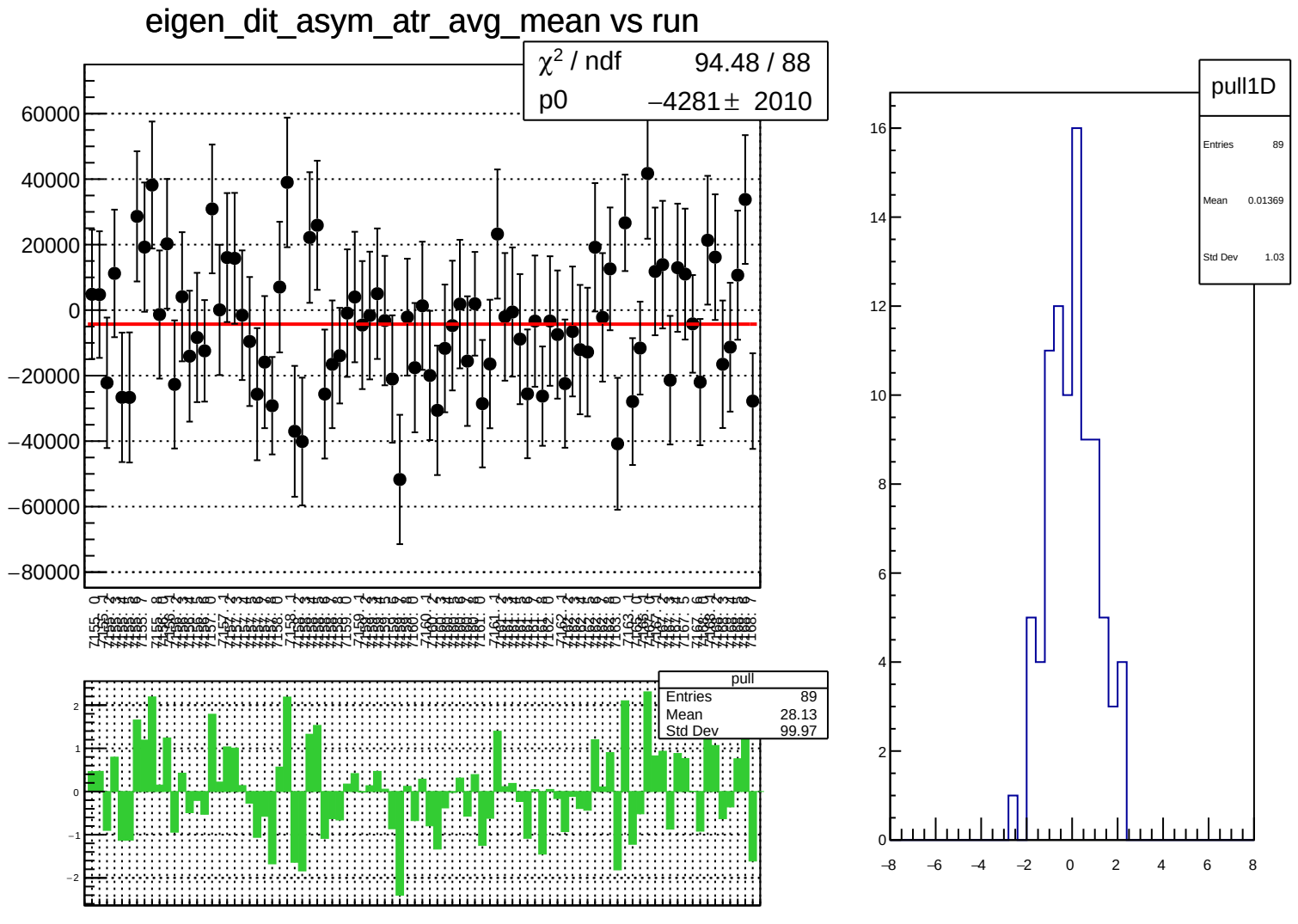

pull1D
Entries 89
Mean 0.01369
Std Dev 1.03

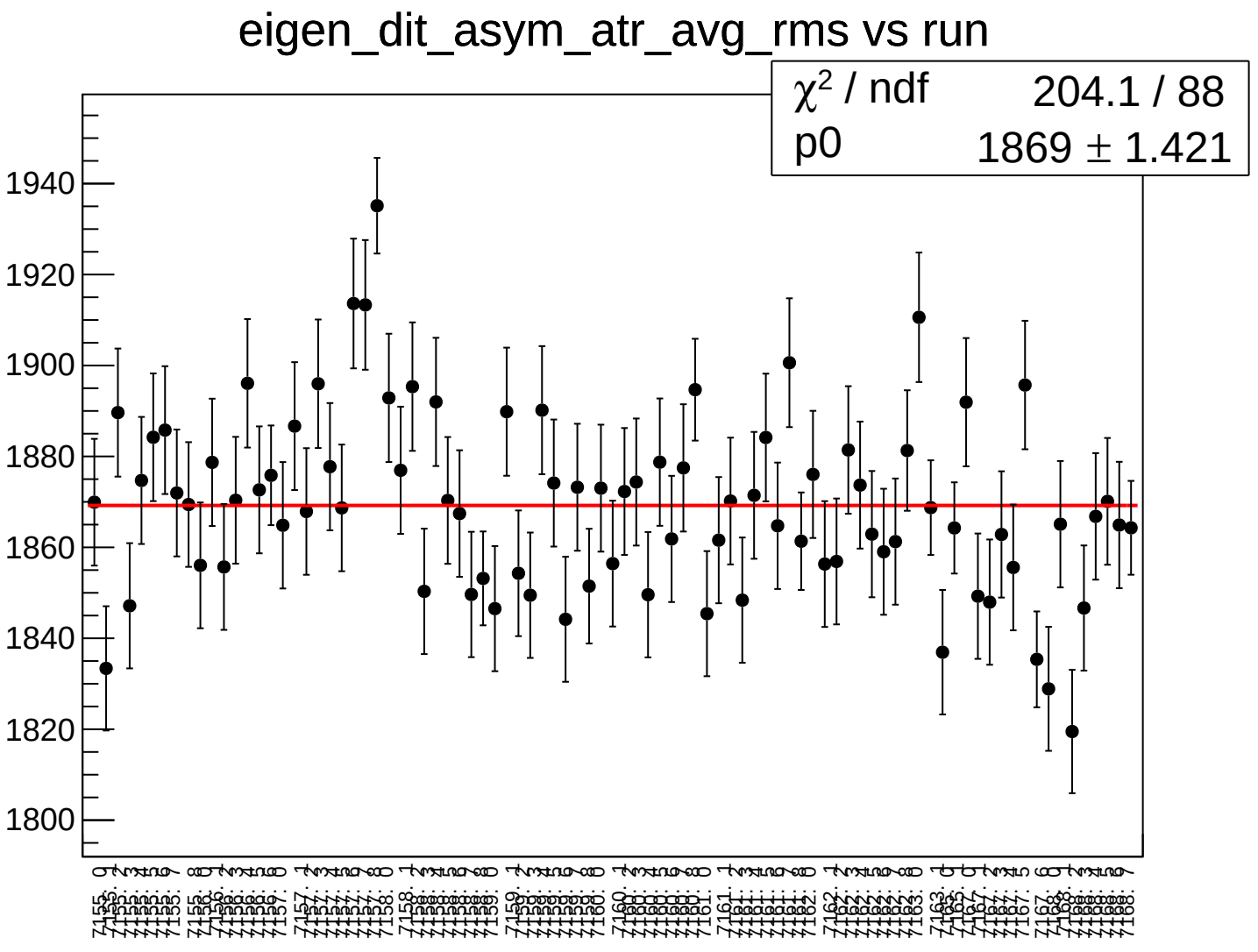

dit_asym_atr_avg_rms vs run
χ² / ndf 204.1 / 88
p0 1869 ± 1.421
1940
1920
1900
1880
1860
1840
1820
1800

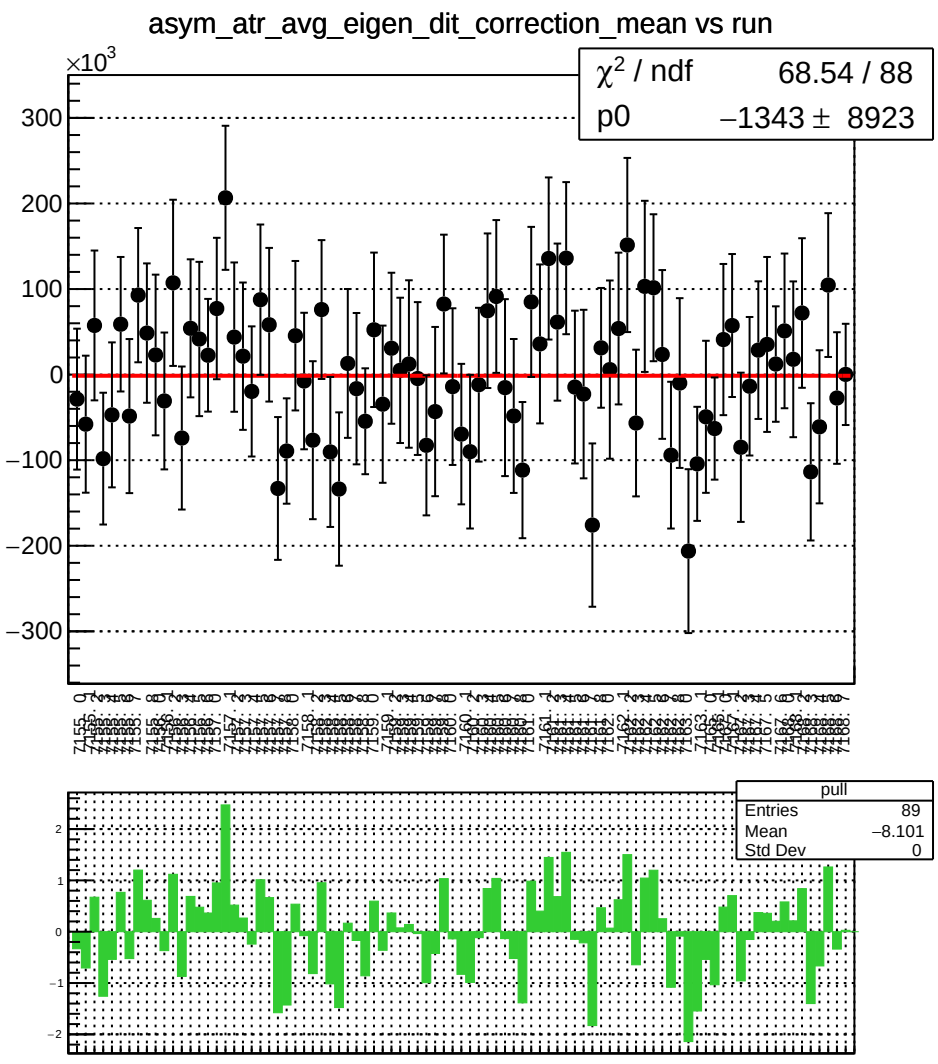

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.54 / 88
p0 −1343 ± 8923
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −8.101
Std Dev 0
2
1
0
−1
−2

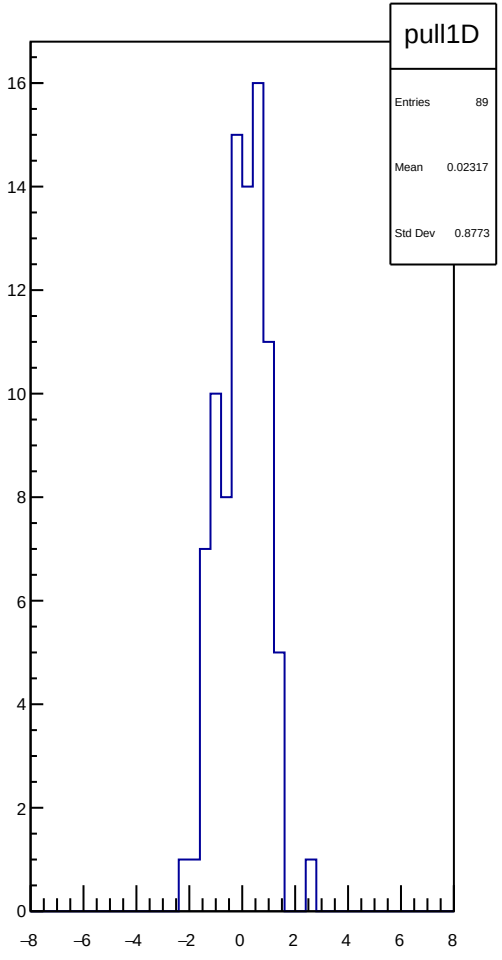

pull1D
Entries 89
Mean 0.02317
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

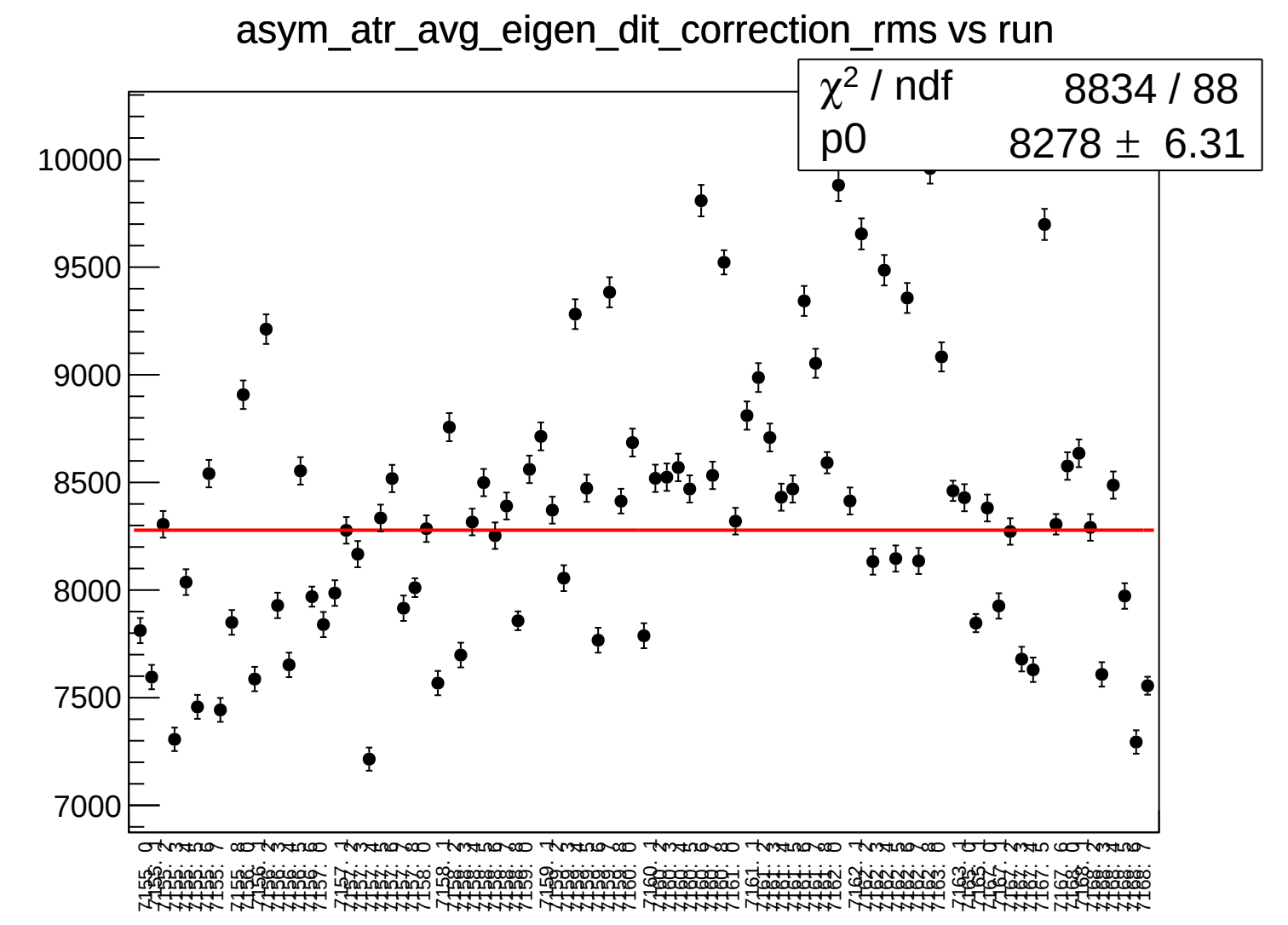

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 8833 / 88
p0 8278 ± 6.31
10000
9500
9000
8500
8000
7500
7000

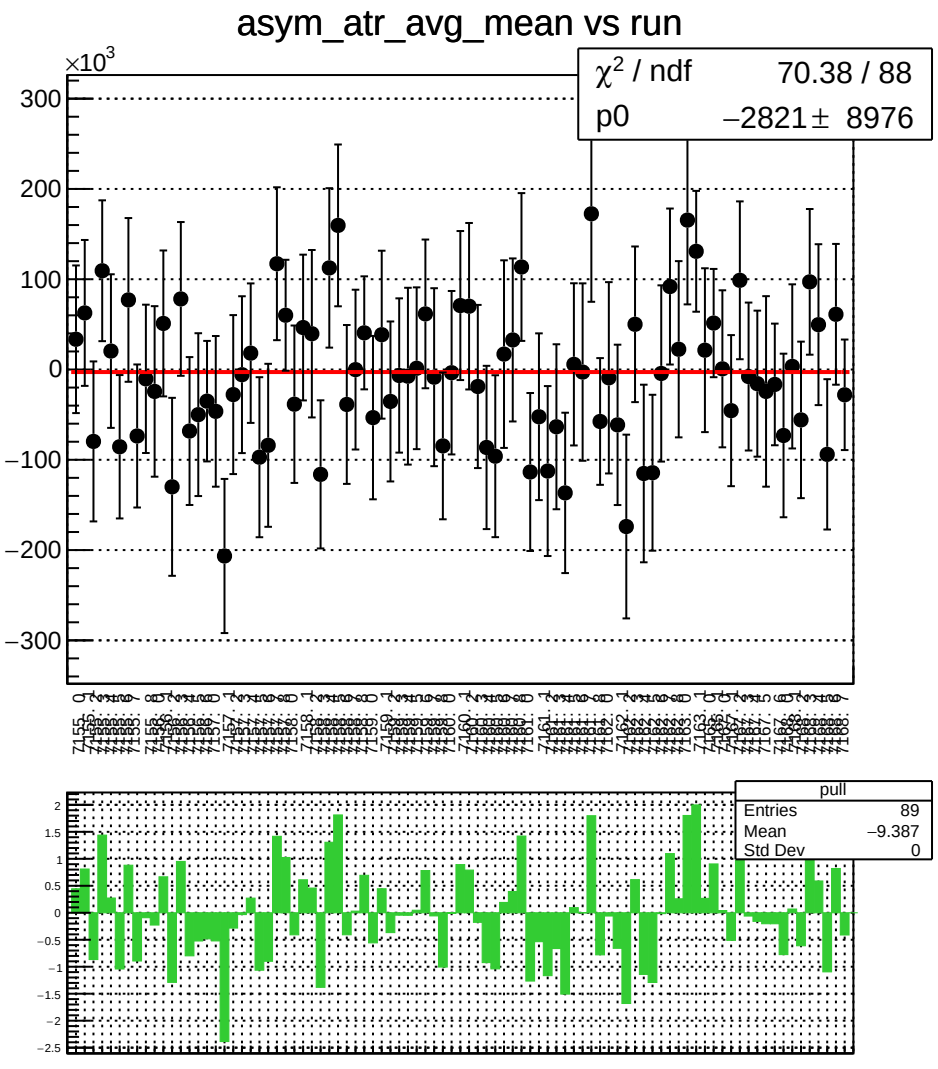

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 94.48 / 88
p0 −4281 ± 2010
pull
Entries 89
Mean 28.13
Std Dev 99.97
pull1D
Entries 89
Mean 0.01369
Std Dev 1.03

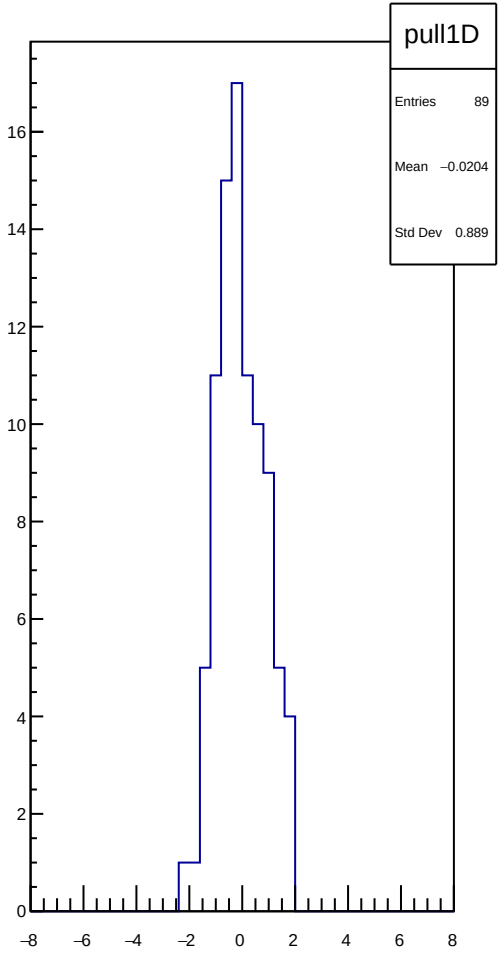

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 204.1 / 88
p0 1869 ± 1.421
1940
1920
1900
1880
1860
1840
1820
1800

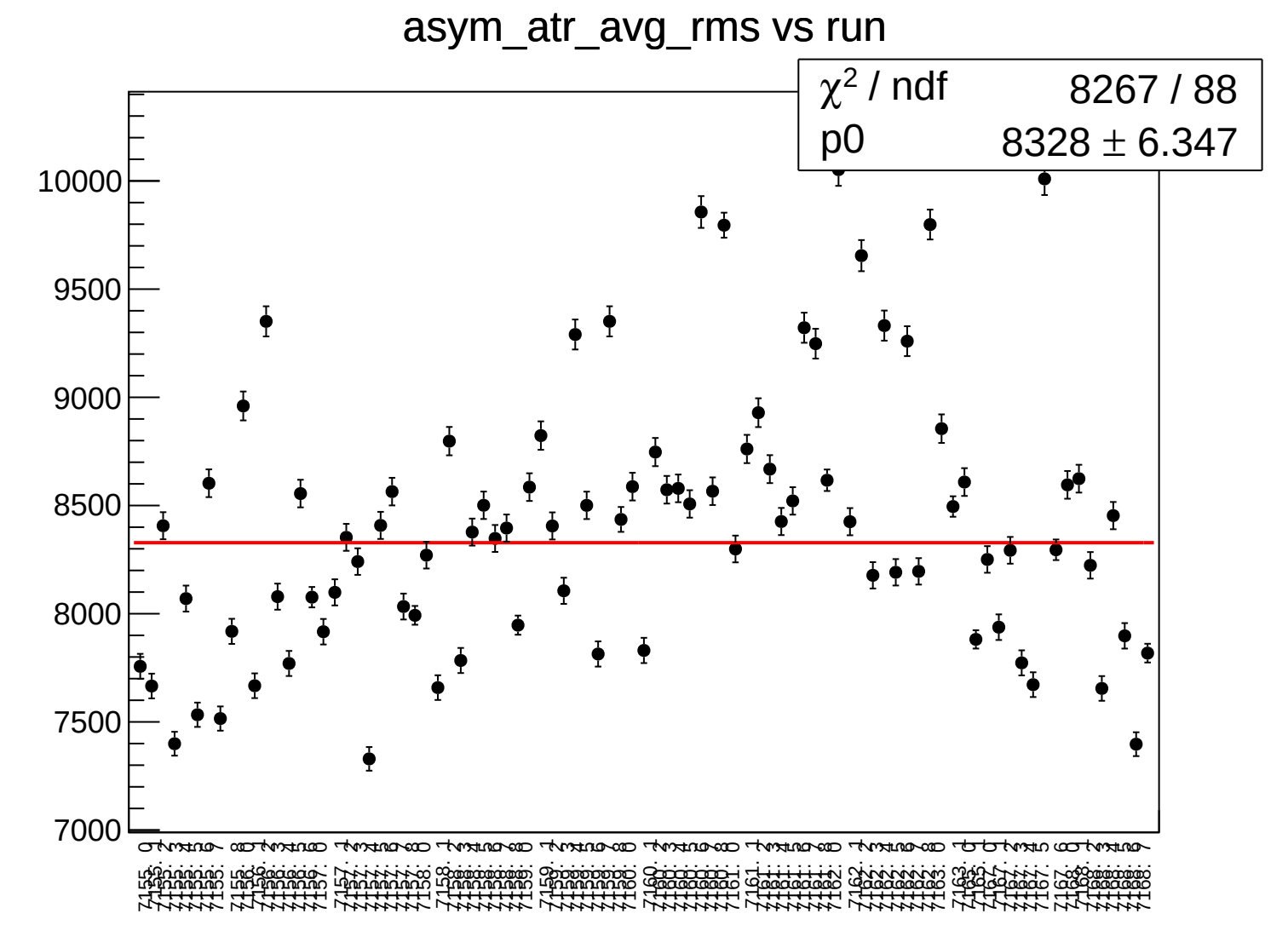

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.54 / 88
p0 −1343 ± 8923
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −8.101
Std Dev 0
2
1
0
−1
−2

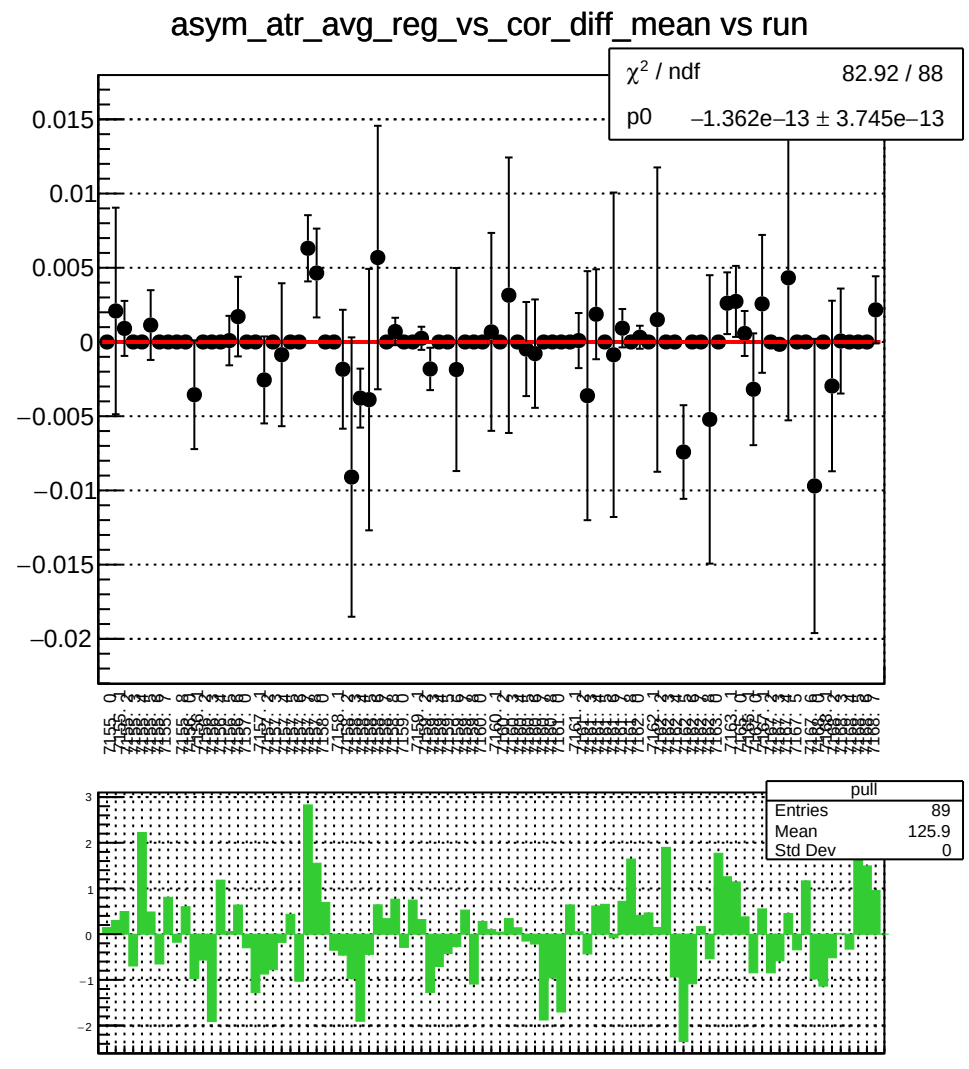

pull1D
Entries 89
Mean 0.02317
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

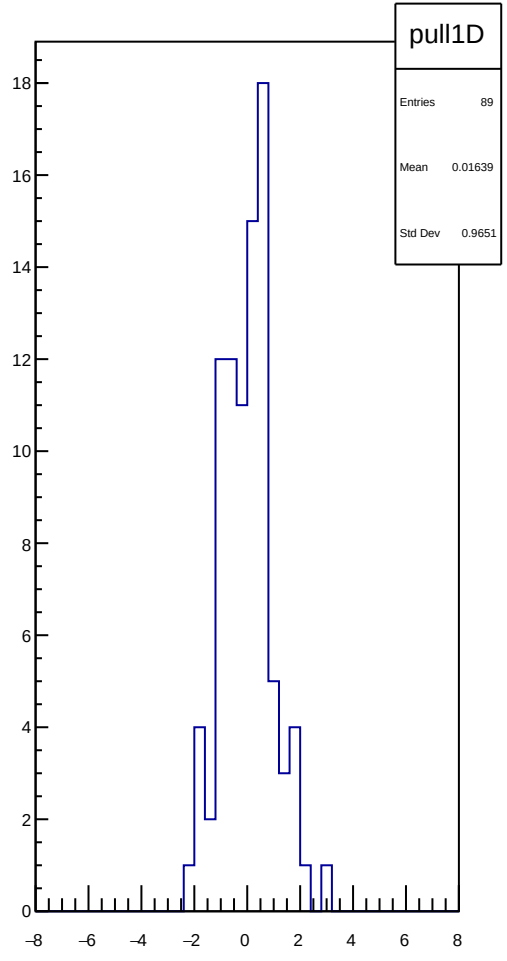

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 8834 / 88
p0 8278 ± 6.31
10000
9500
9000
8500
8000
7500
7000

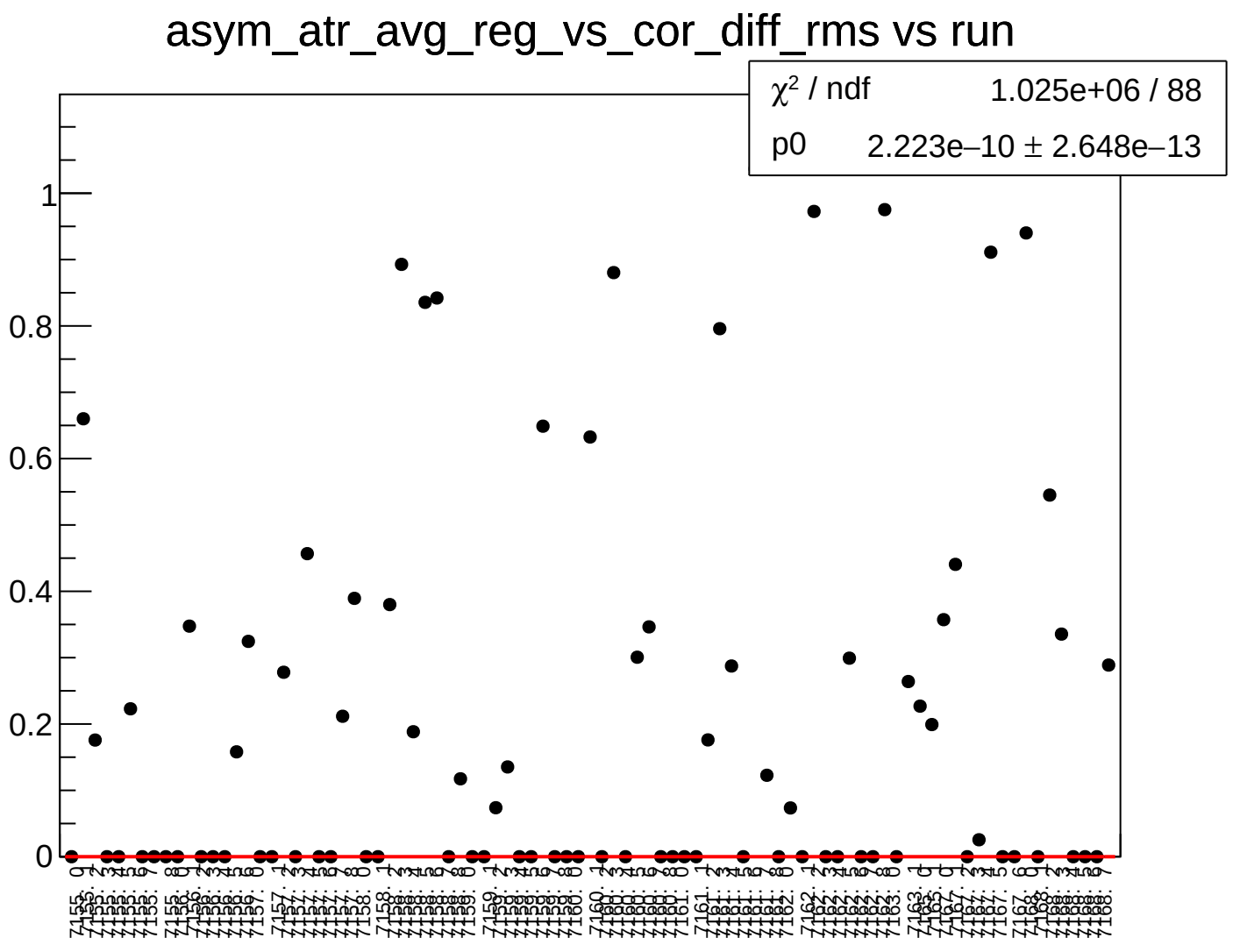

asym_atr_avg_mean vs run
×10^3
χ² / ndf 70.38 / 88
p0 −2821 ± 8976
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.387
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

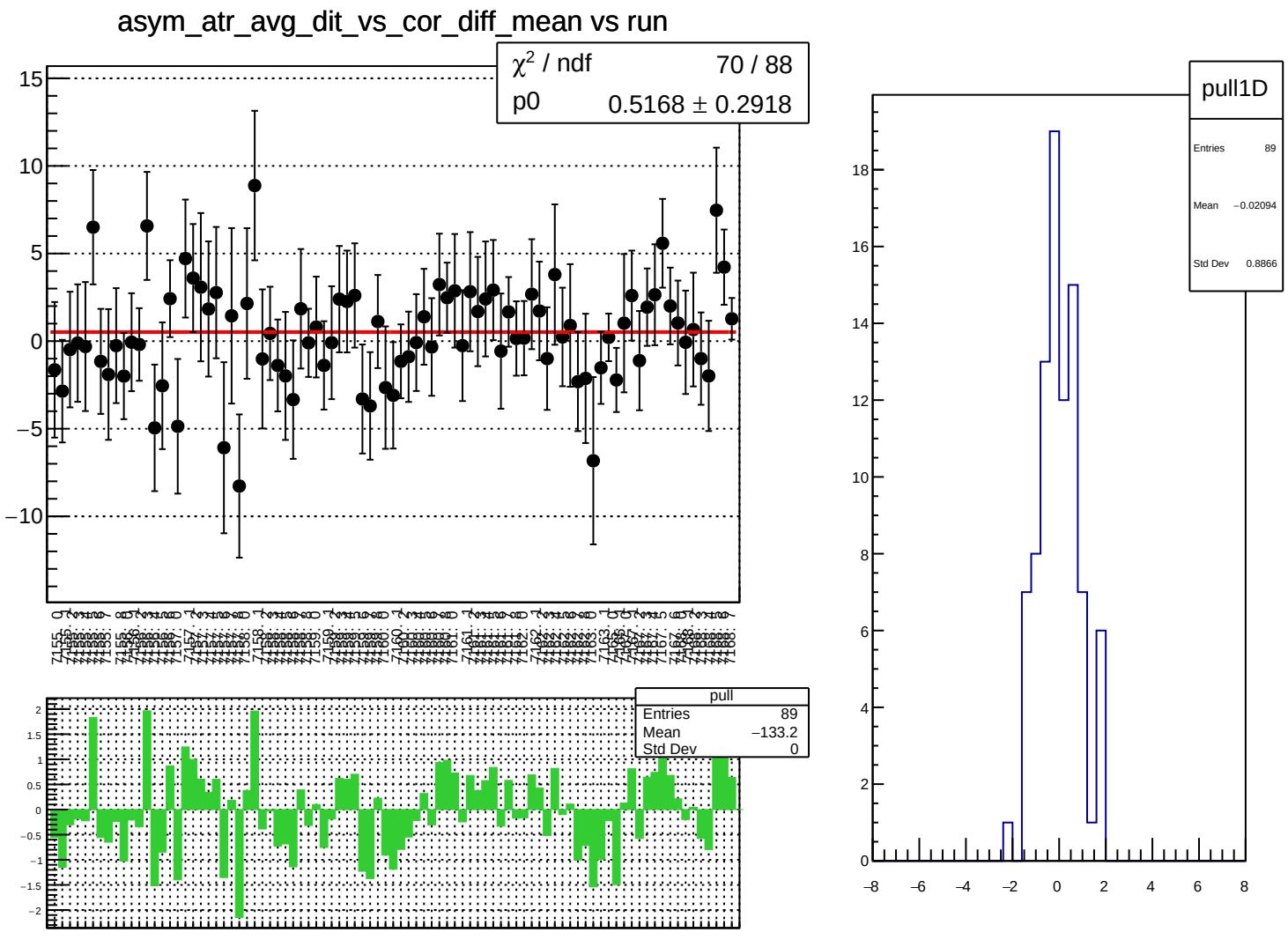

pull1D
Entries 89
Mean −0.0204
Std Dev 0.889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

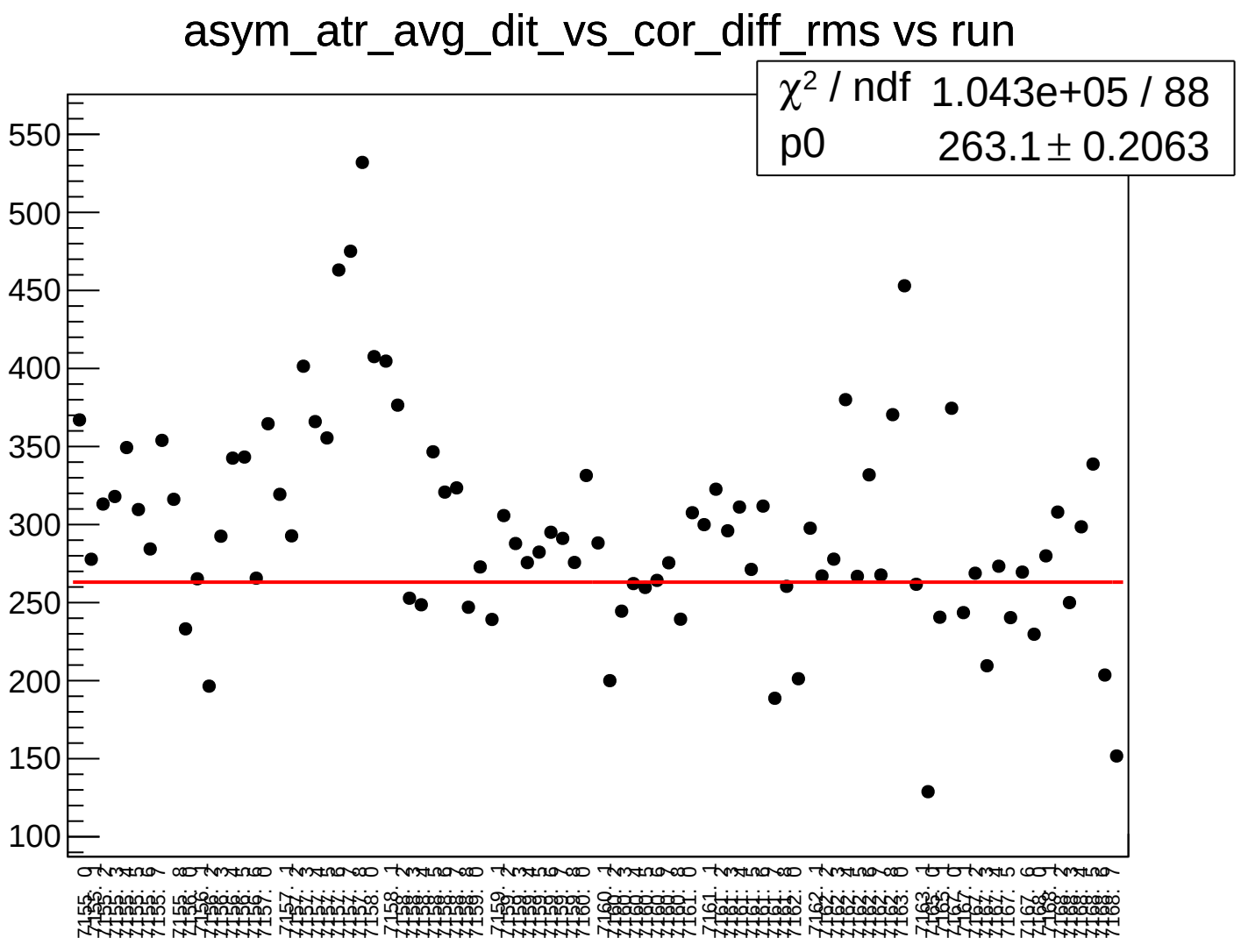

asym_atr_avg_rms vs run
χ^2 / ndf 8267 / 88
p0 8328 ± 6.347
10000
9500
9000
8500
8000
7500
7000

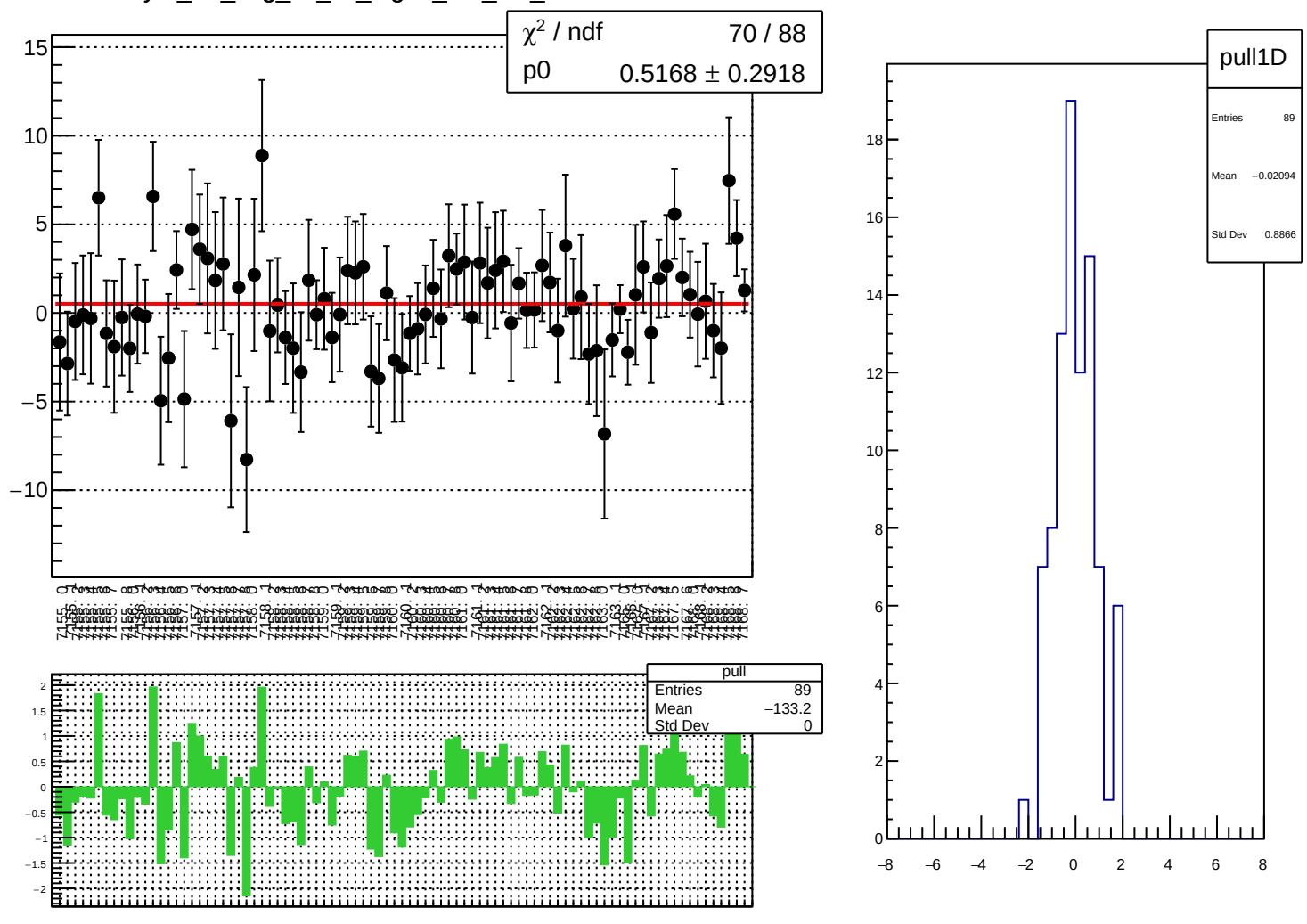

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.92 / 88
p0 −1.362e−13 ± 3.745e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 125.9
Std Dev 0
3
2
1
0
−1
−2

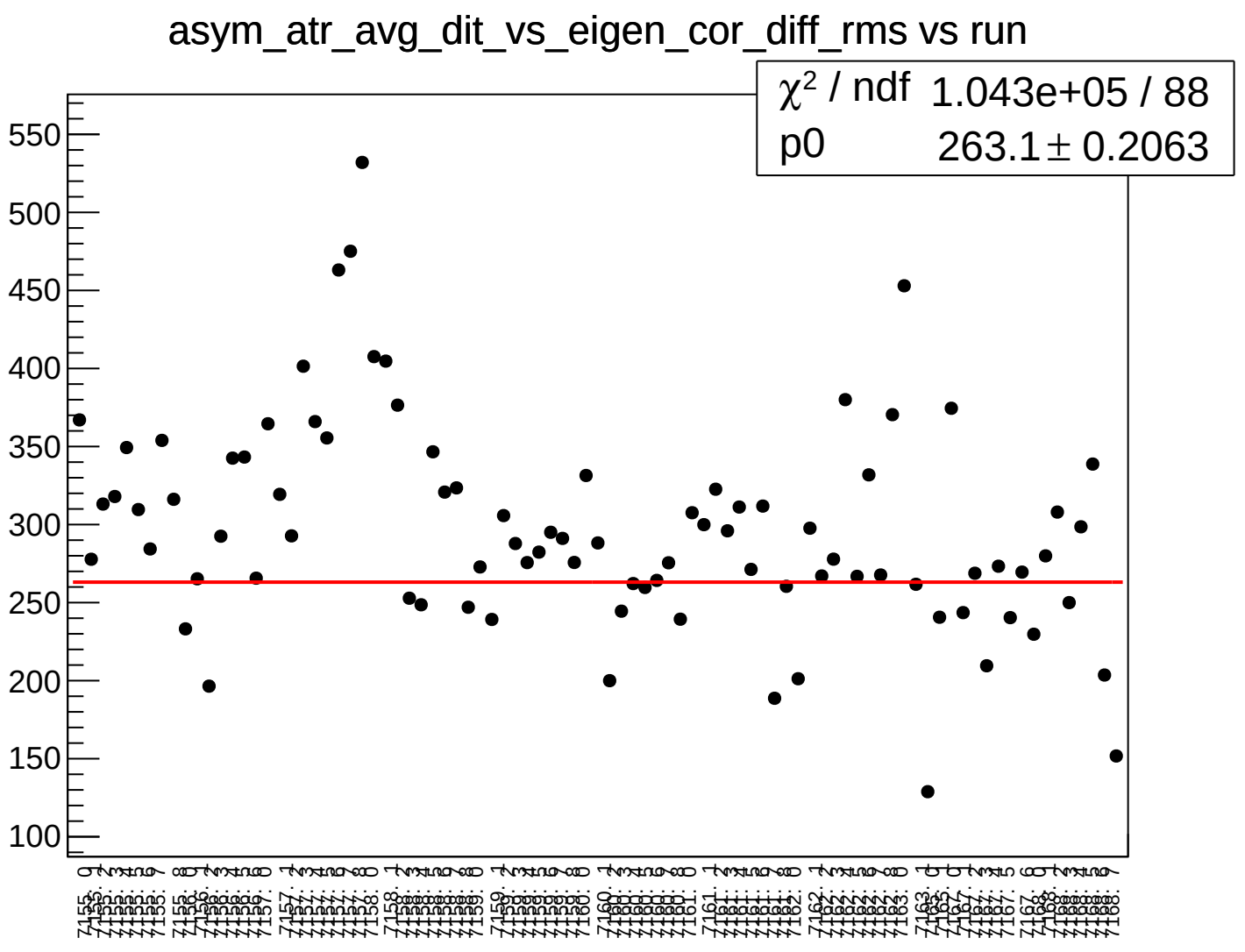

pull1D
Entries 89
Mean 0.01639
Std Dev 0.9651
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

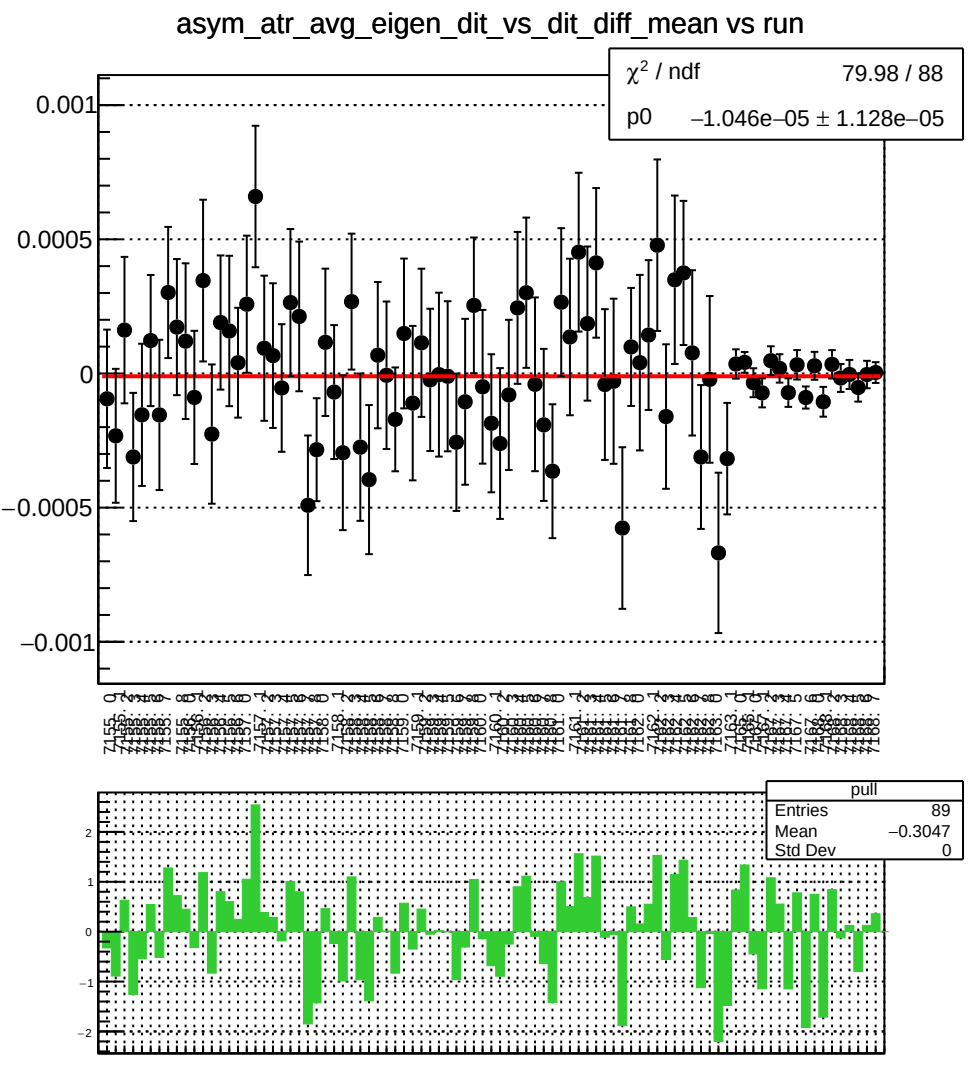

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 88
p0 2.223e−10 ± 2.648e−13
1
0.8
0.6
0.4
0.2
0

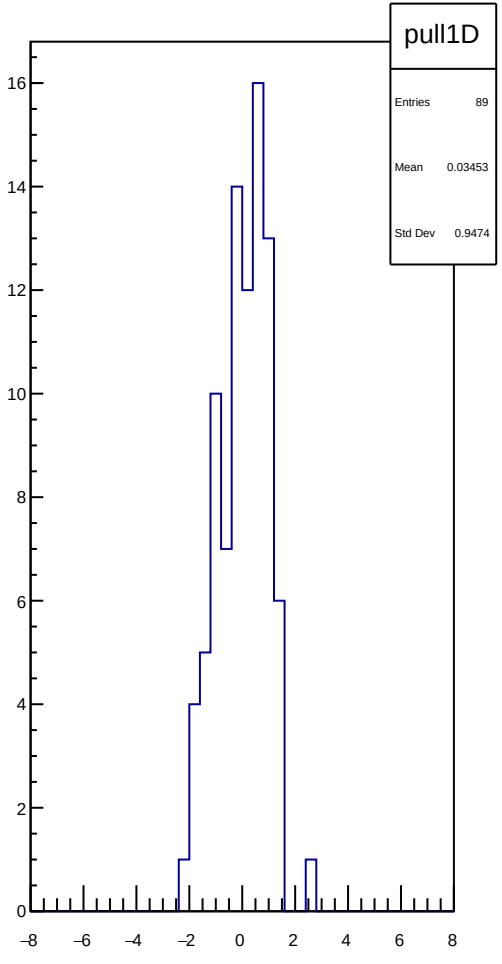

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70 / 88
p0 0.5168 ± 0.2918
pull
Entries 89
Mean −133.2
Std Dev 0
pull1D
Entries 89
Mean −0.02094
Std Dev 0.8866

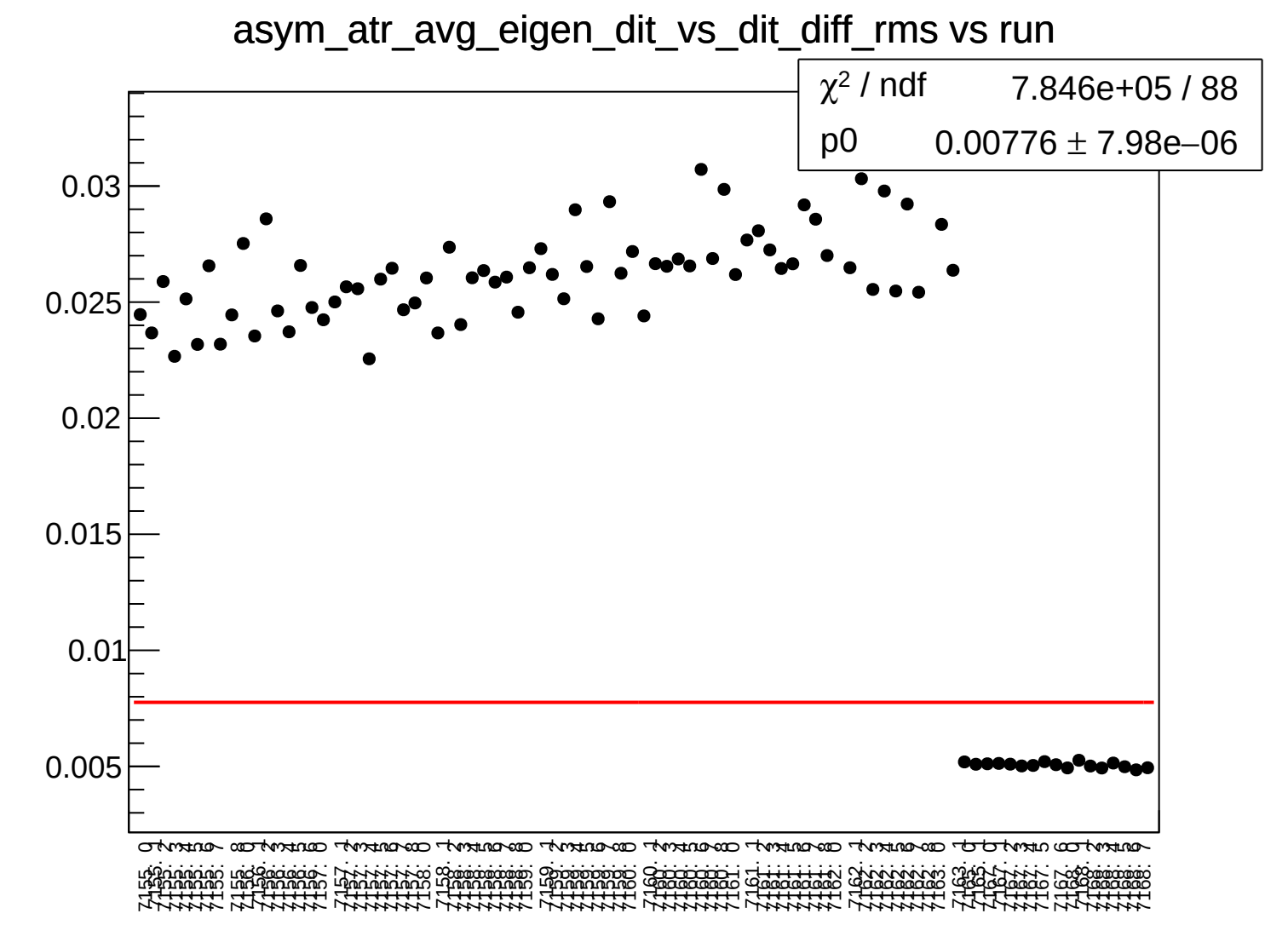

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 263.1 ± 0.2063
550
500
450
400
350
300
250
200
150
100

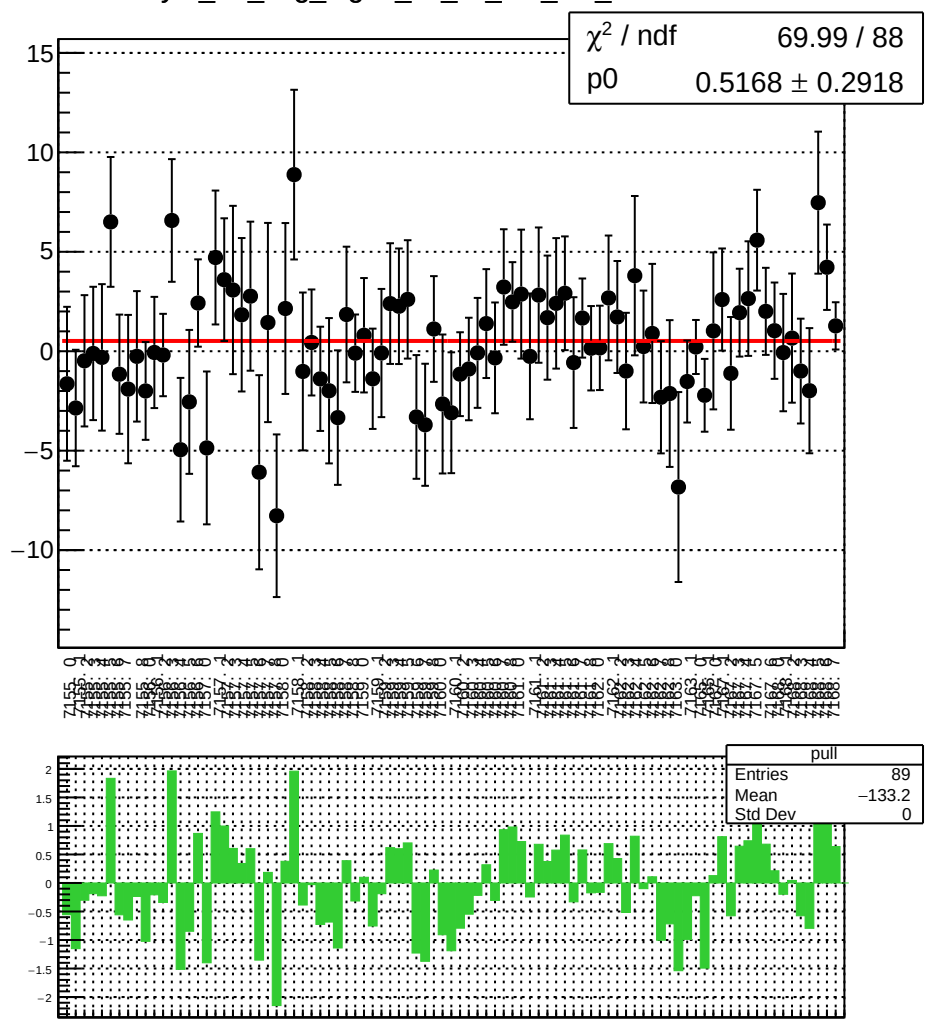

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70 / 88
p0 0.5168 ± 0.2918
pull
Entries 89
Mean −133.2
Std Dev 0
pull1D
Entries 89
Mean −0.02094
Std Dev 0.8866

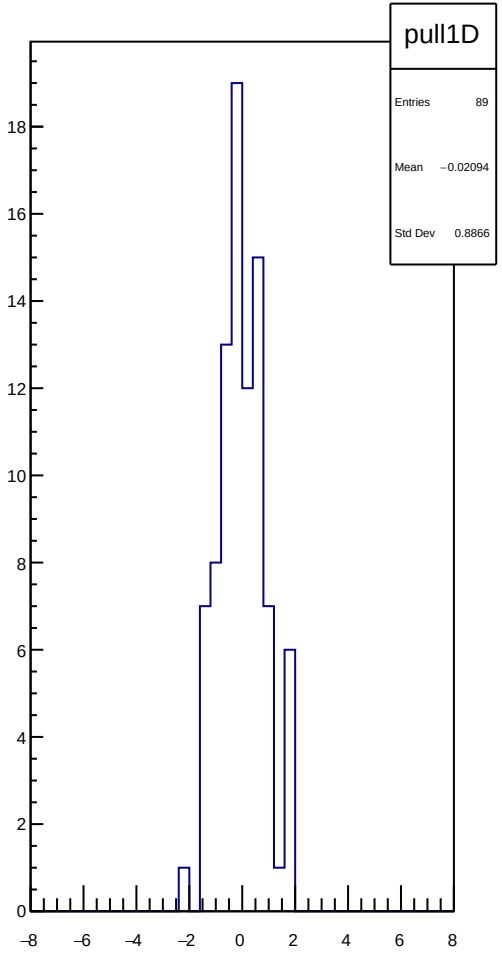

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 263.1 ± 0.2063
550
500
450
400
350
300
250
200
150
100

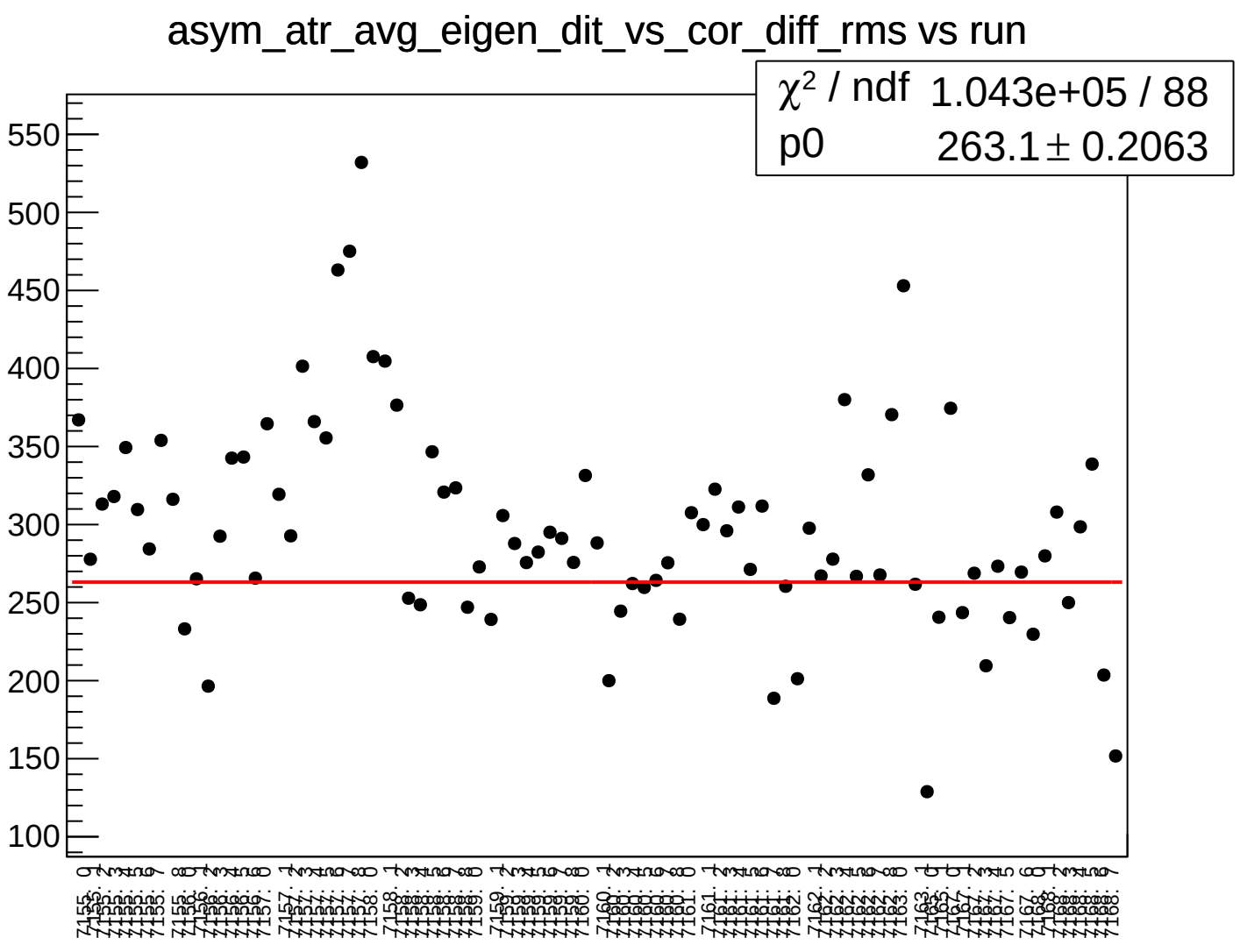

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.98 / 88
p0 −1.046e−05 ± 1.128e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −0.3047
Std Dev 0

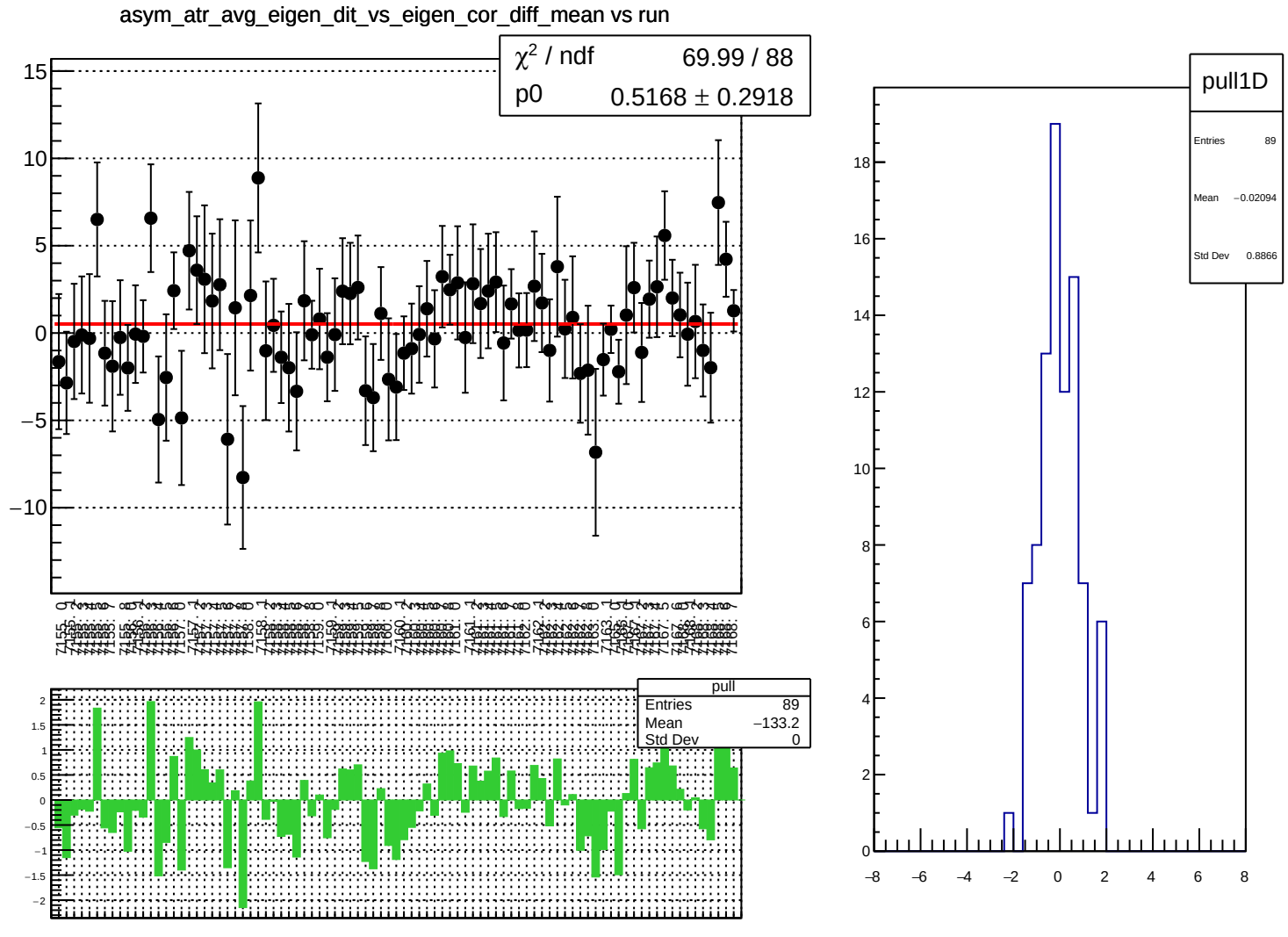

pull1D
Entries 89
Mean 0.03453
Std Dev 0.9474
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

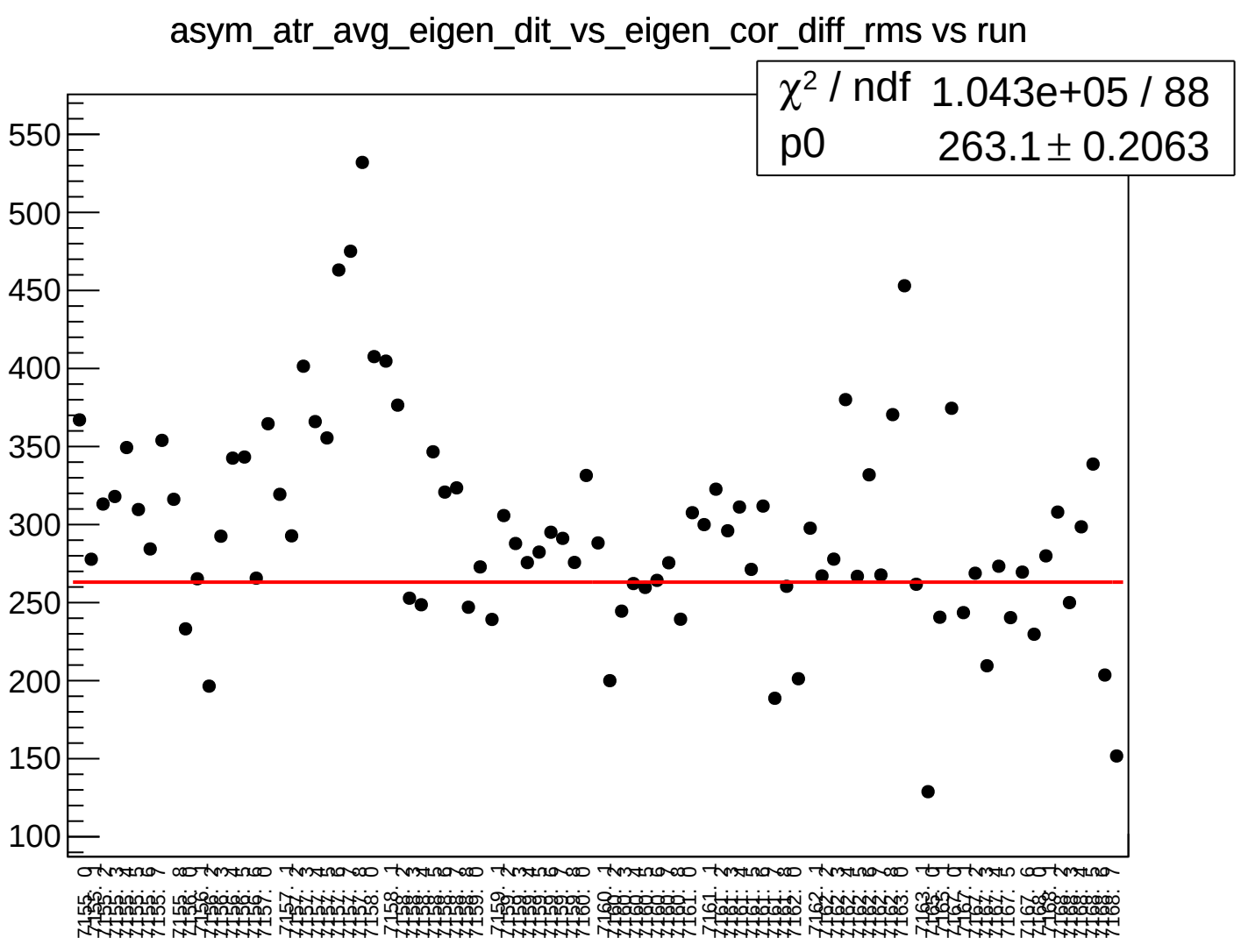

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.846e+05 / 88
p0 0.00776 ± 7.98e−06
0.03
0.025
0.02
0.015
0.01
0.005

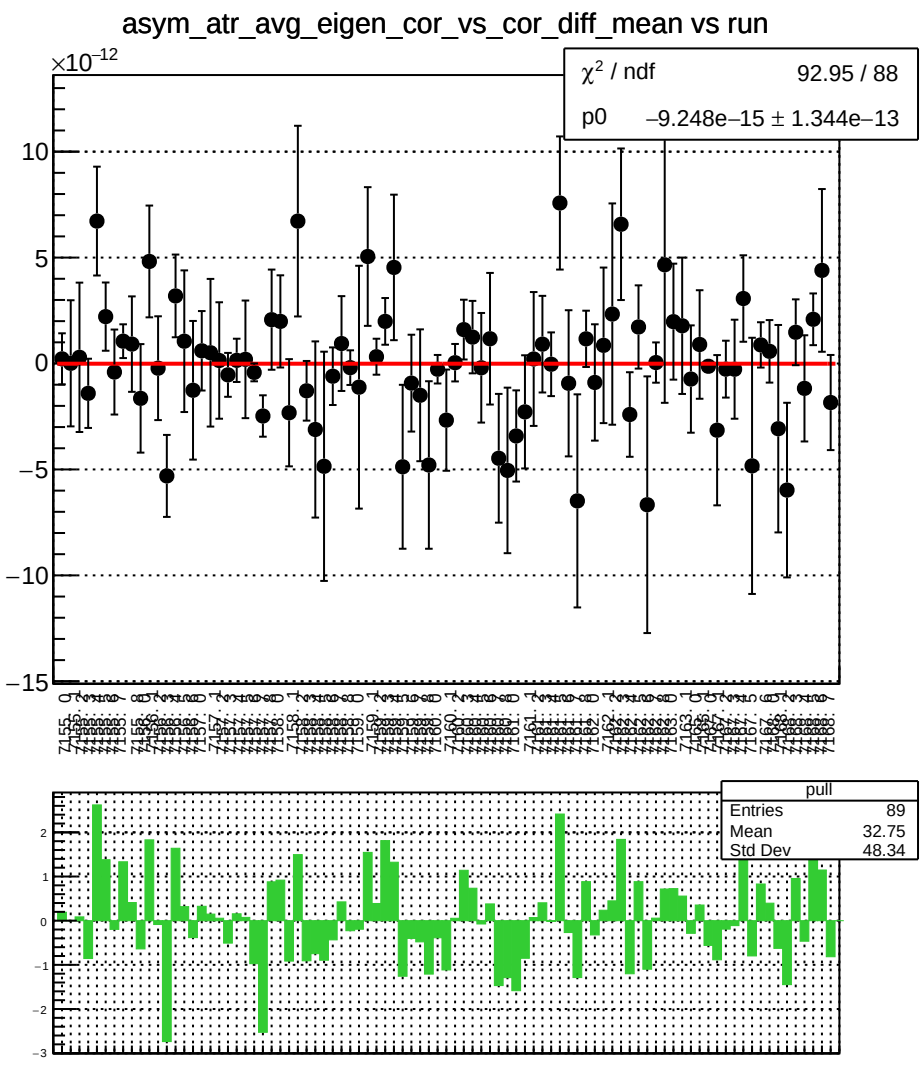

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.99 / 88
p0 0.5168 ± 0.2918
pull
Entries 89
Mean −133.2
Std Dev 0

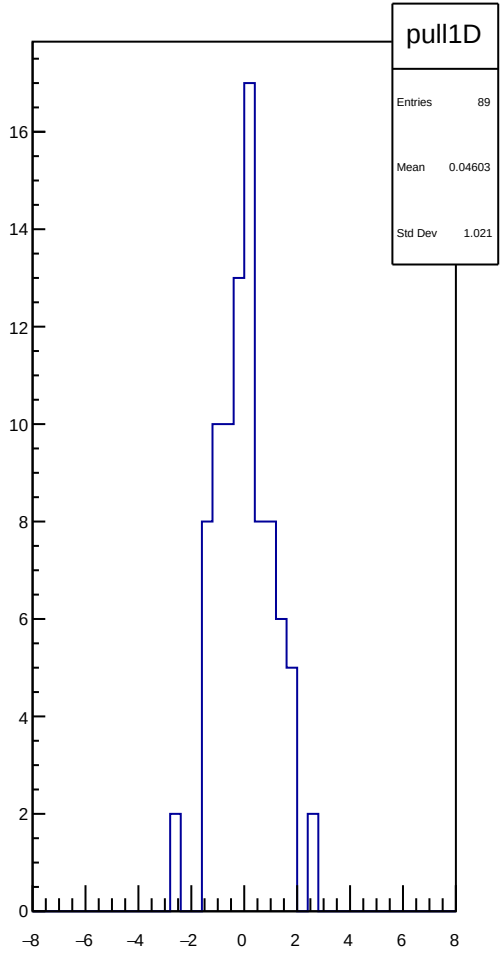

pull1D
Entries 89
Mean −0.02094
Std Dev 0.8866

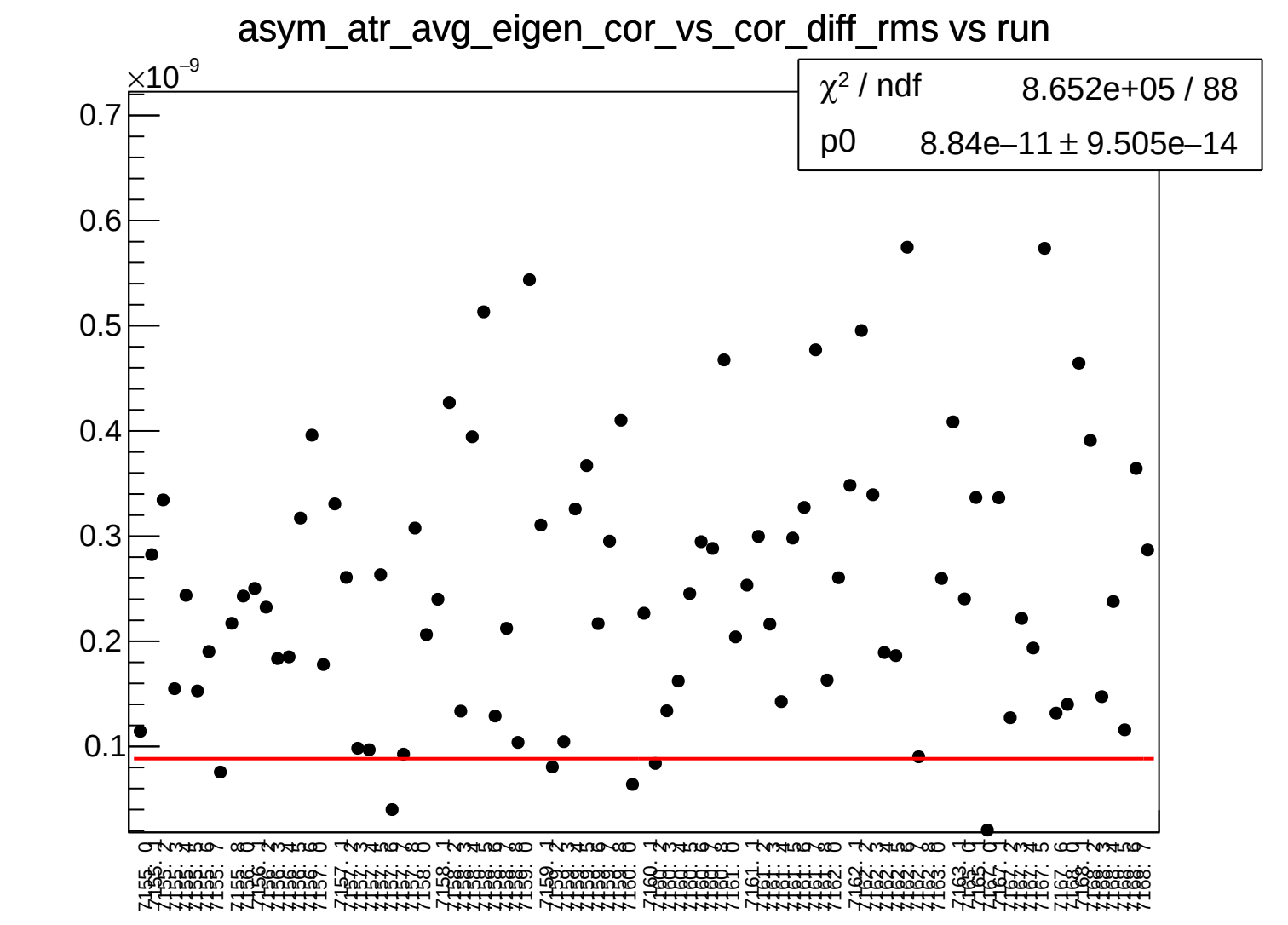

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 263.1 ± 0.2063
550
500
450
400
350
300
250
200
150
100

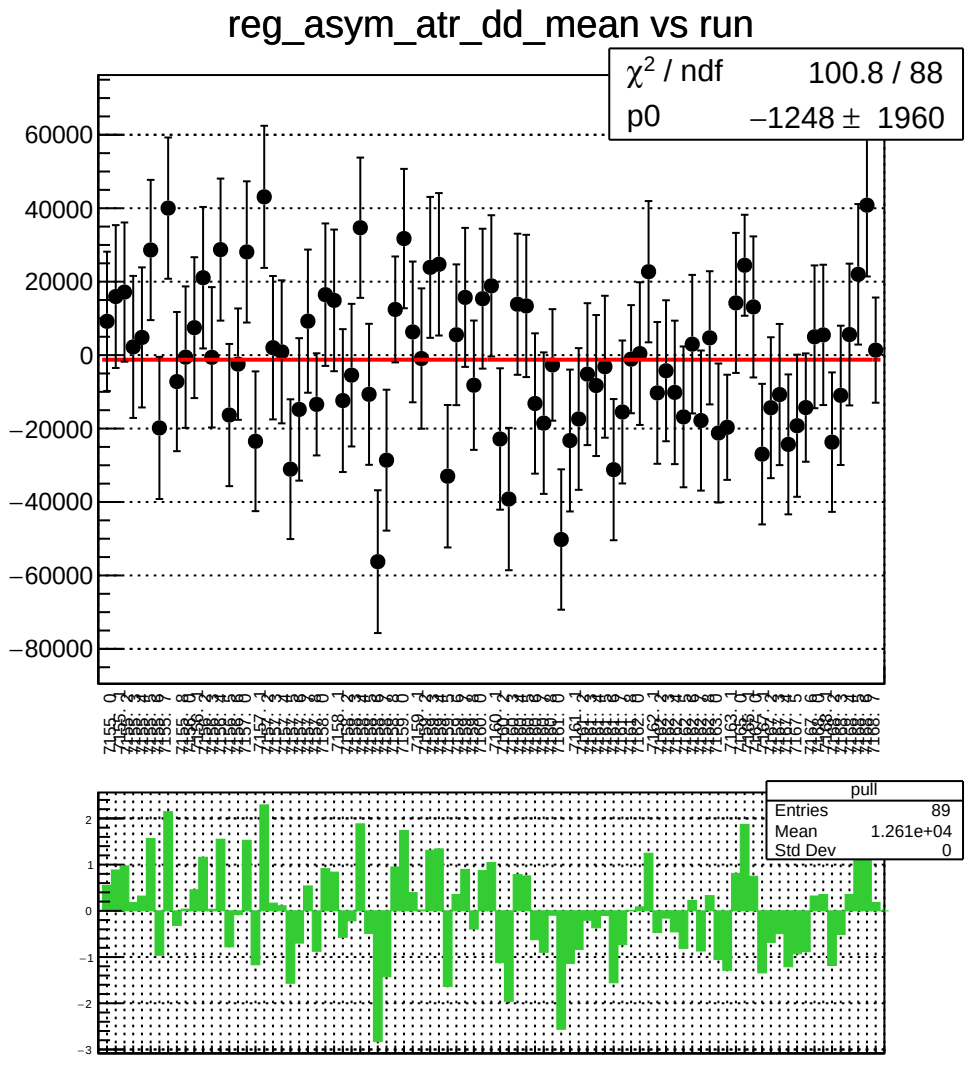

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.99 / 88
p0 0.5168 ± 0.2918
pull
Entries 89
Mean −133.2
Std Dev 0
pull1D
Entries 89
Mean −0.02094
Std Dev 0.8866

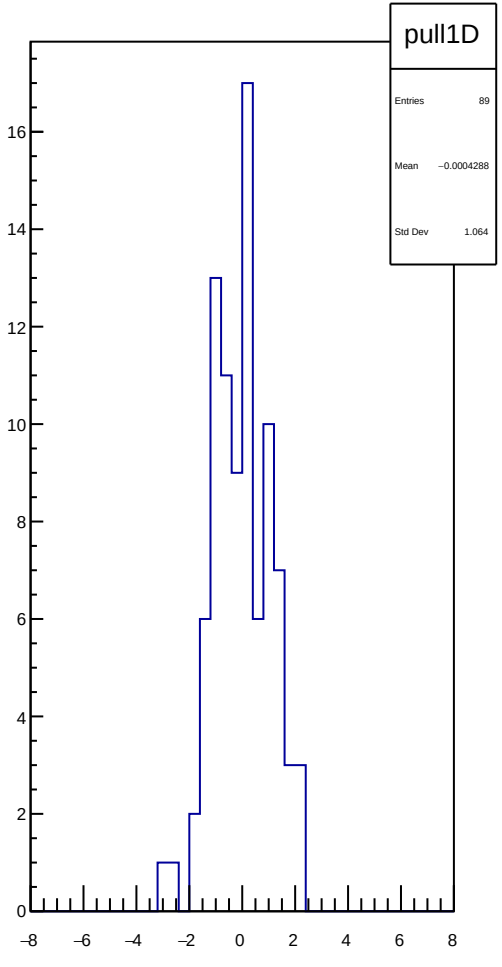

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.043e+05 / 88
p0 263.1 ± 0.2063
550
500
450
400
350
300
250
200
150
100

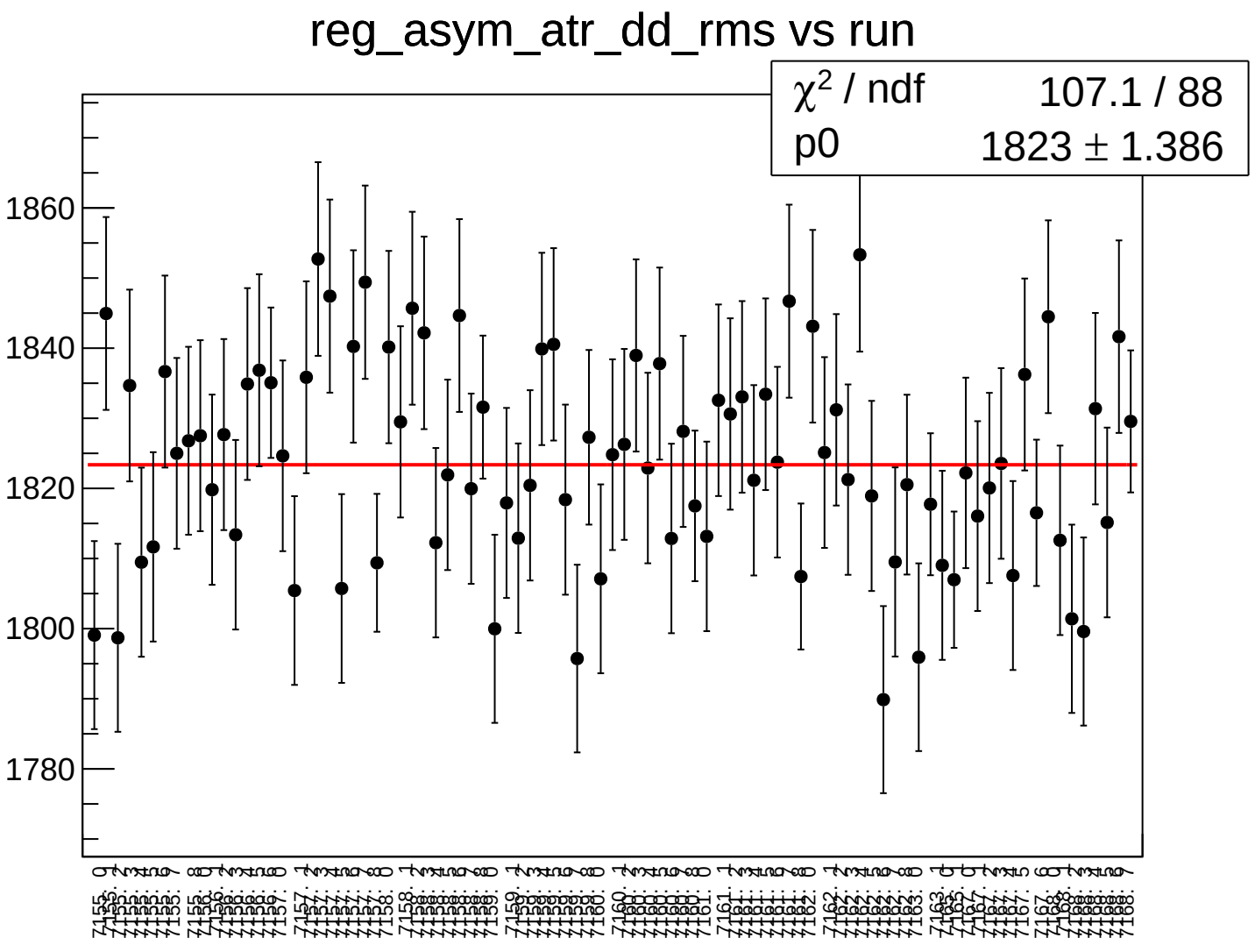

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.95 / 88
p0 −9.248e−15 ± 1.344e−13
pull
Entries 89
Mean 32.75
Std Dev 48.34

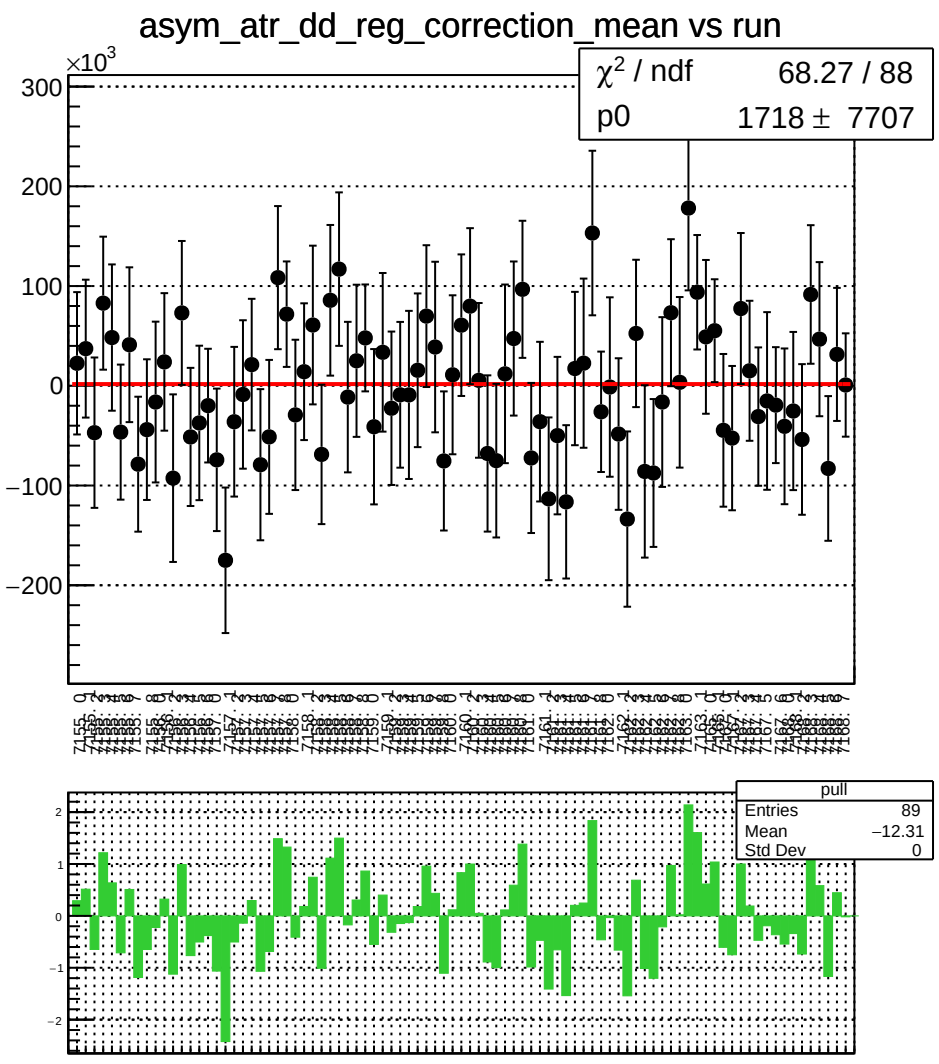

pull1D
Entries 89
Mean 0.04603
Std Dev 1.021

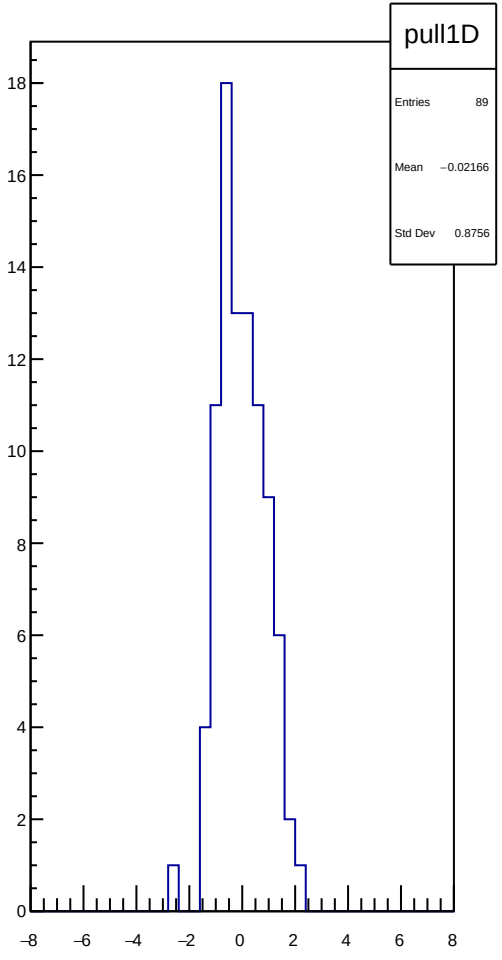

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 8.652e+05 / 88
p0 8.84e−11 ± 9.505e−14
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1

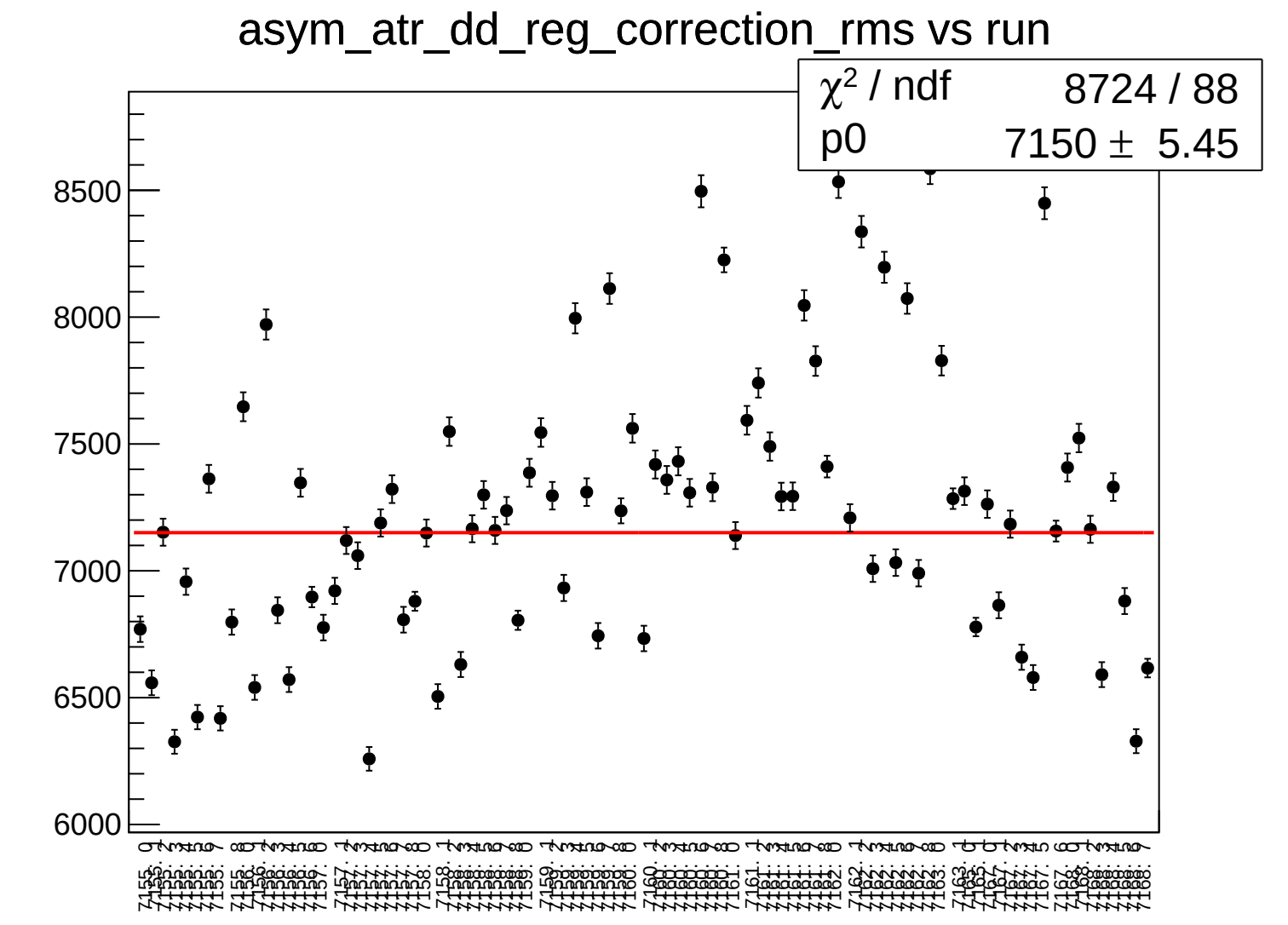

reg_asym_atr_dd_mean vs run
χ^2 / ndf 100.8 / 88
p0 −1248 ± 1960
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1.261e+04
Std Dev 0
2
1
0
−1
−2
−3

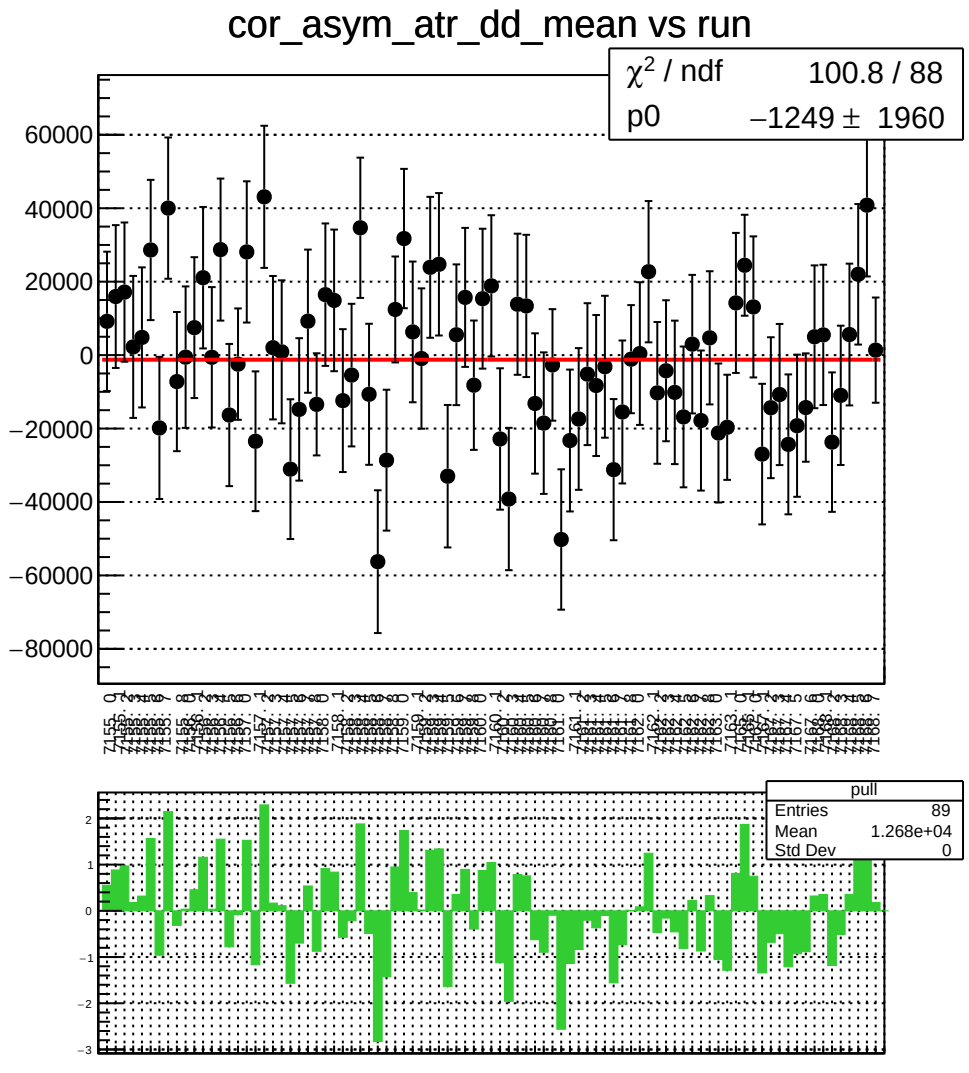

pull1D
Entries 89
Mean −0.0004288
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

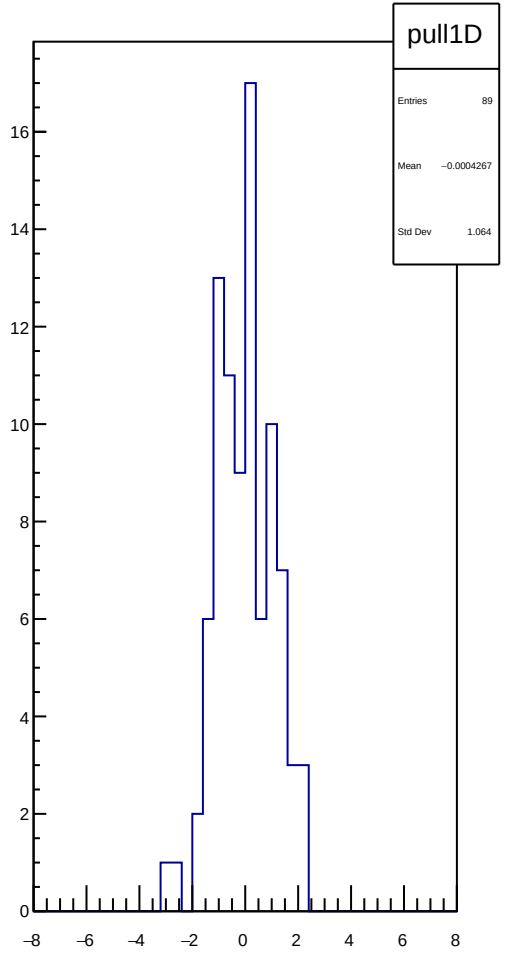

reg_asym_atr_dd_rms vs run
χ^2 / ndf 107.1 / 88
p0 1823 ± 1.386
1860
1840
1820
1800
1780

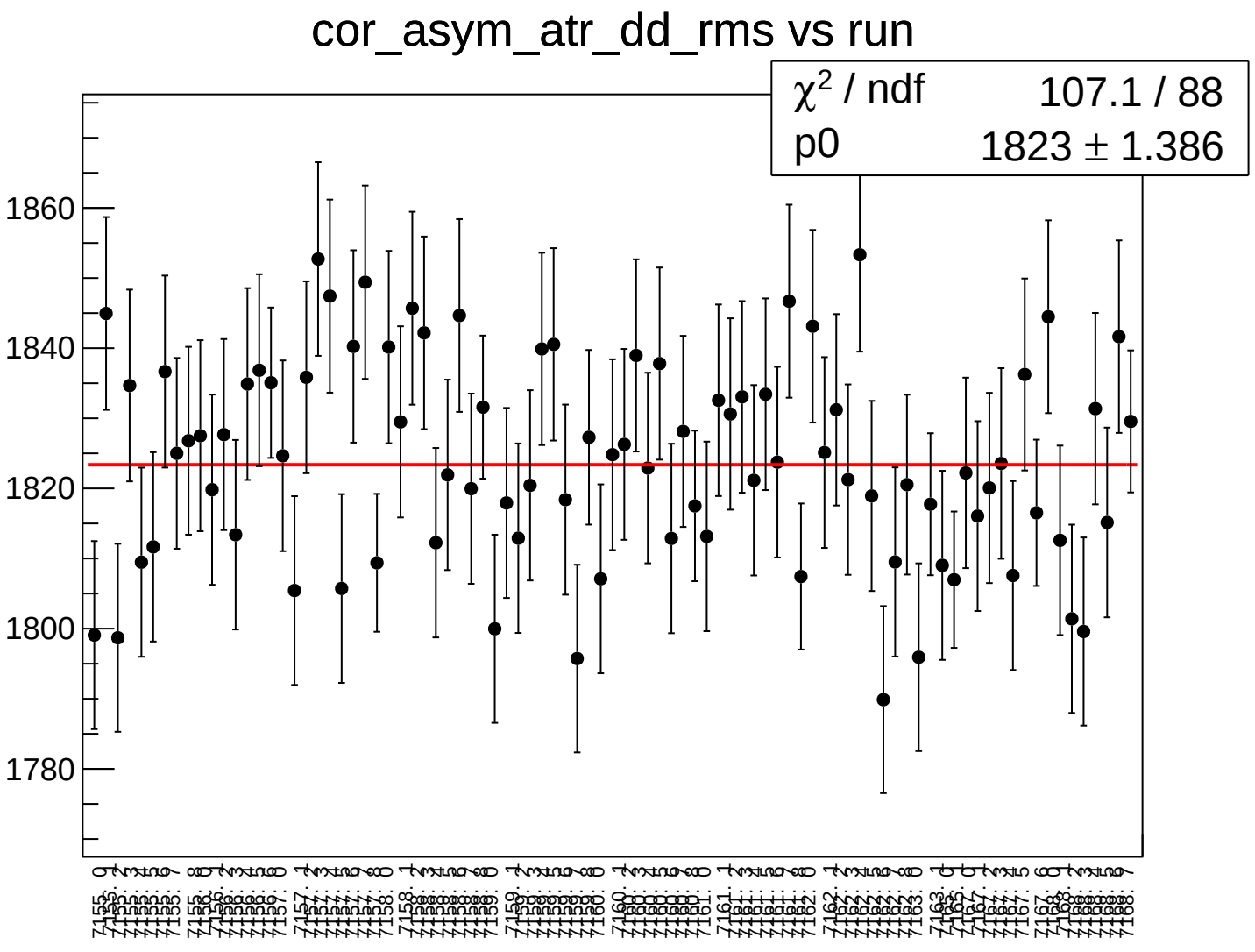

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 68.27 / 88
p0 1718 ± 7707
pull
Entries 89
Mean −12.31
Std Dev 0

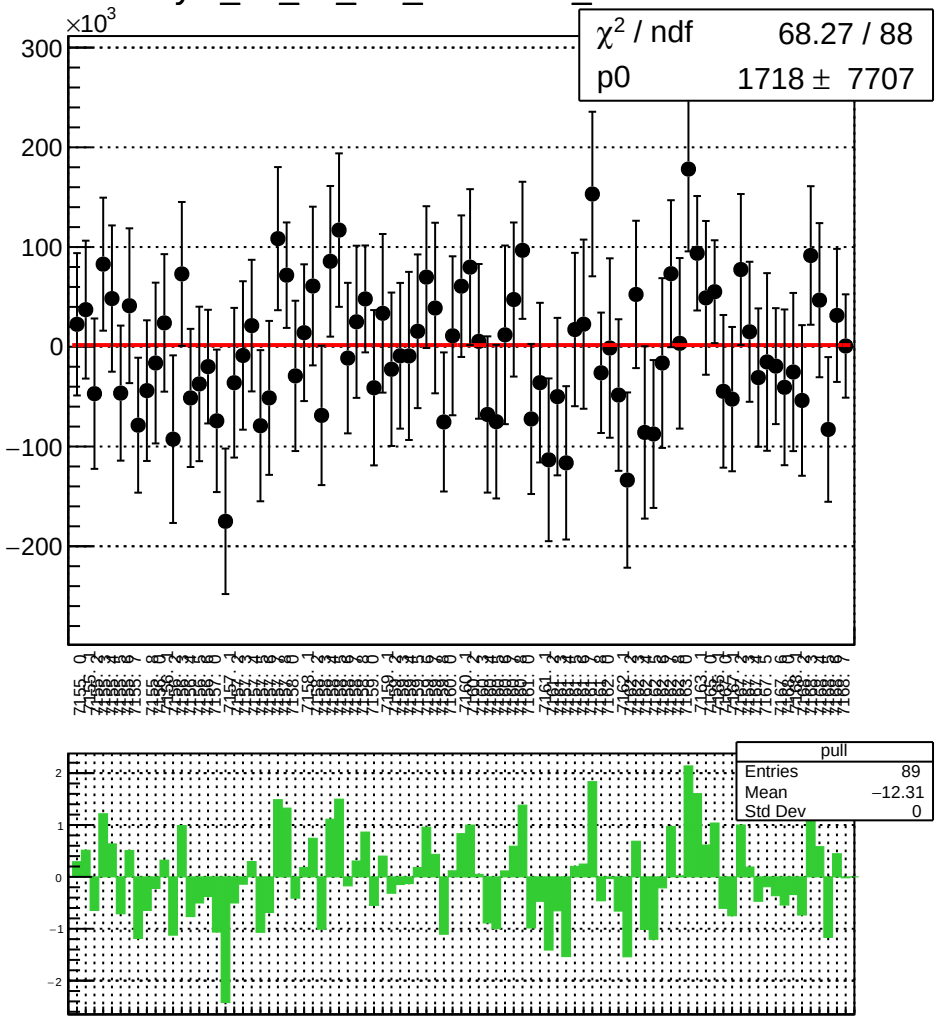

pull1D
Entries 89
Mean −0.02166
Std Dev 0.8756

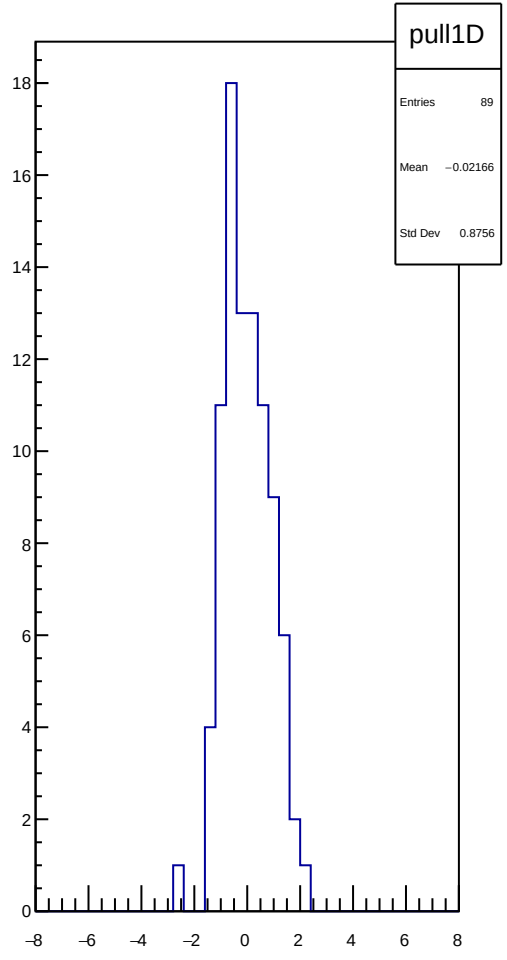

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 8724 / 88
p0 7150 ± 5.45
8500
8000
7500
7000
6500
6000

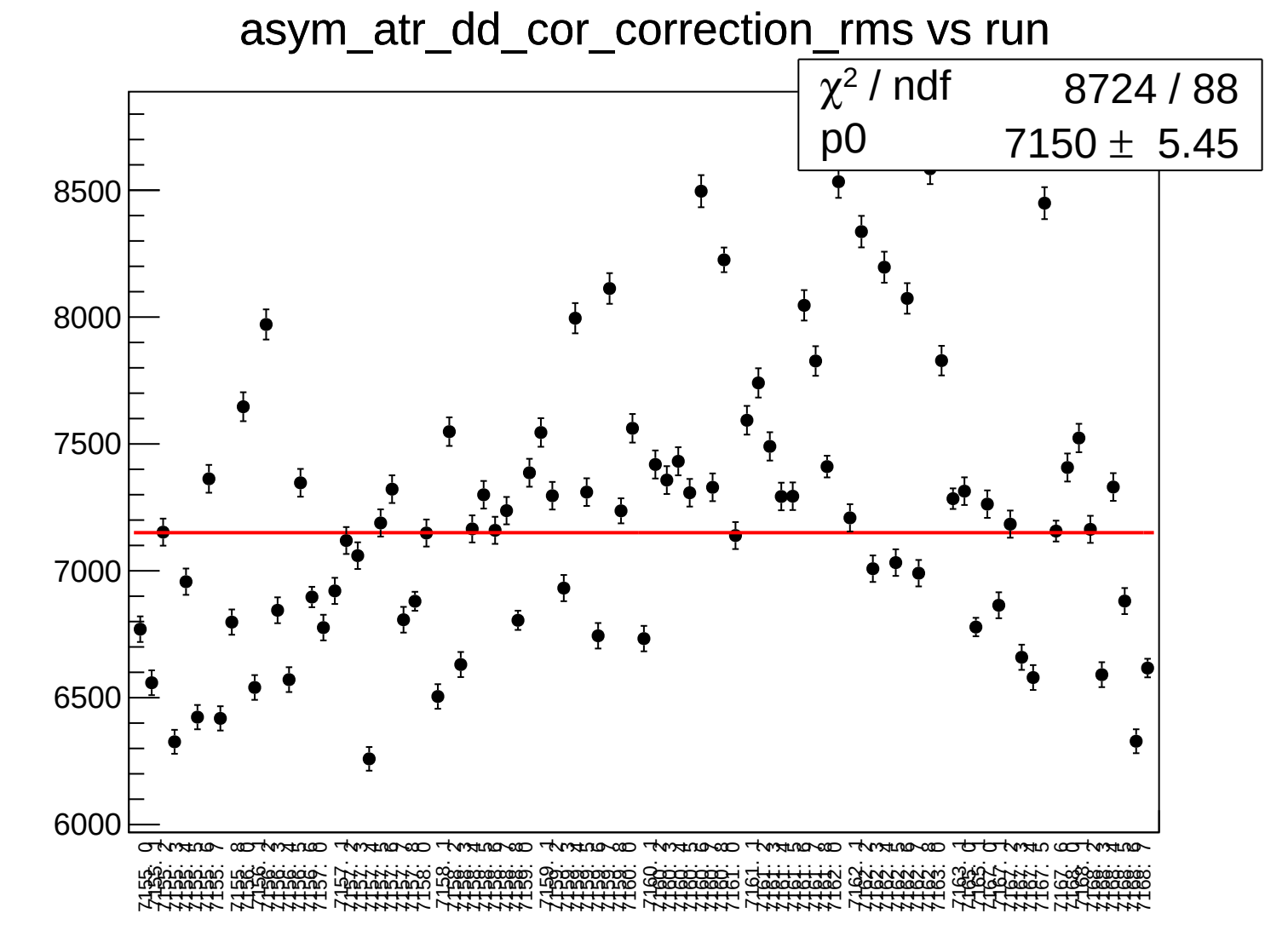

cor_asym_atr_dd_mean vs run
χ² / ndf 100.8 / 88
p0 −1249 ± 1960
pull
Entries 89
Mean 1.268e+04
Std Dev 0

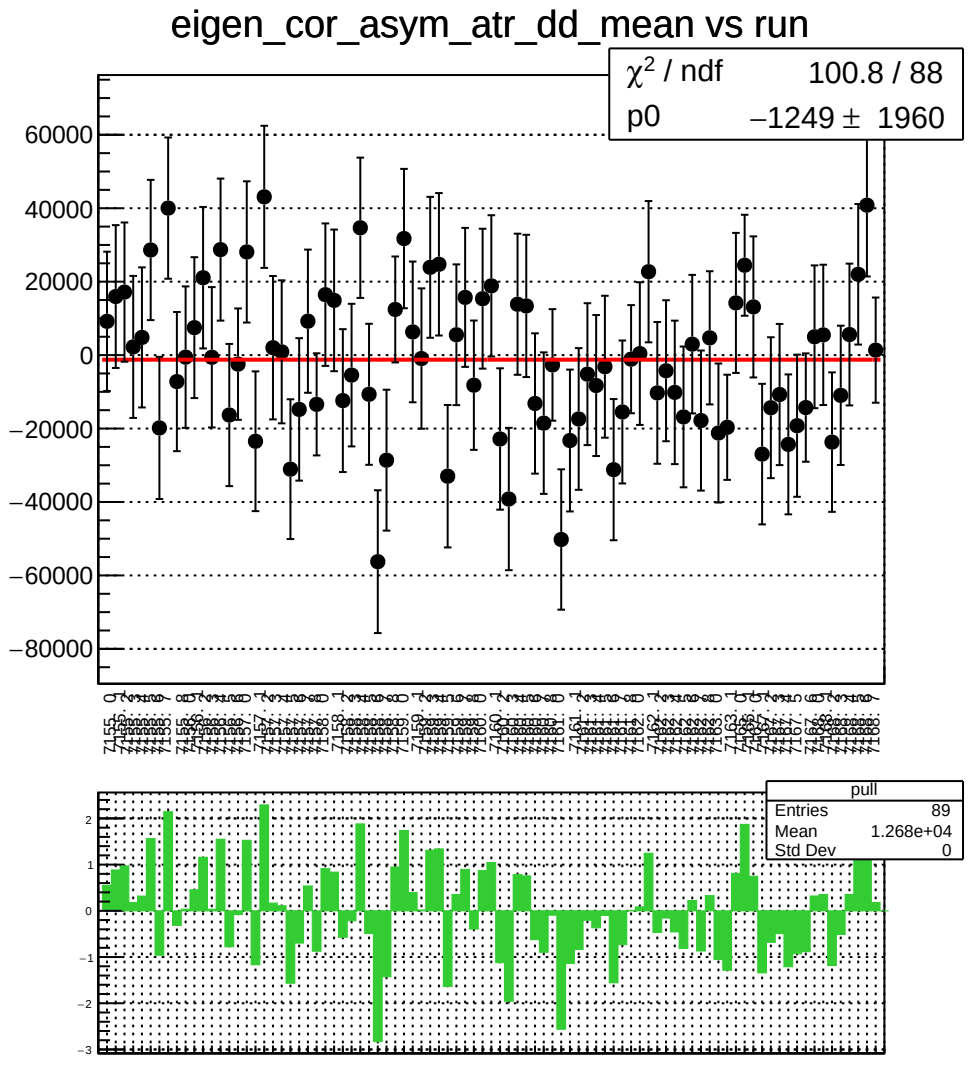

pull1D
Entries 89
Mean −0.0004267
Std Dev 1.064

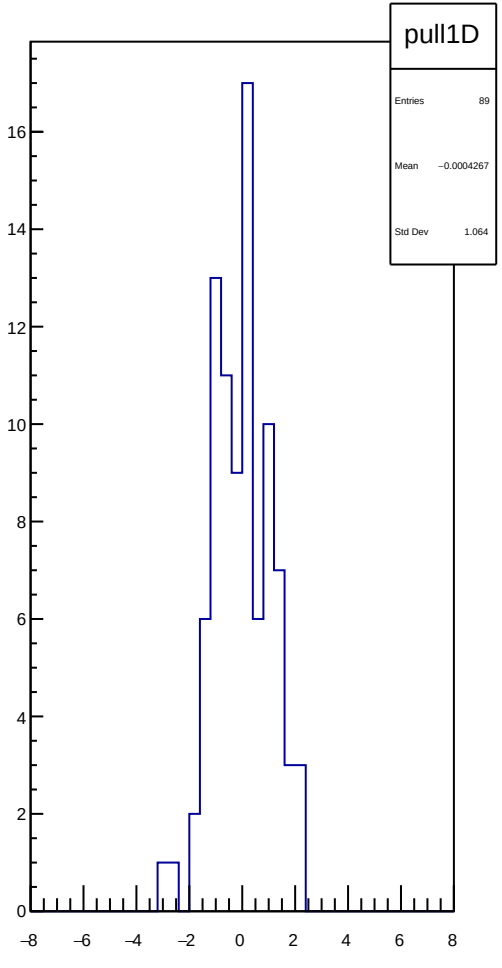

cor_asym_atr_dd_rms vs run
χ^2 / ndf 107.1 / 88
p0 1823 ± 1.386
1860
1840
1820
1800
1780

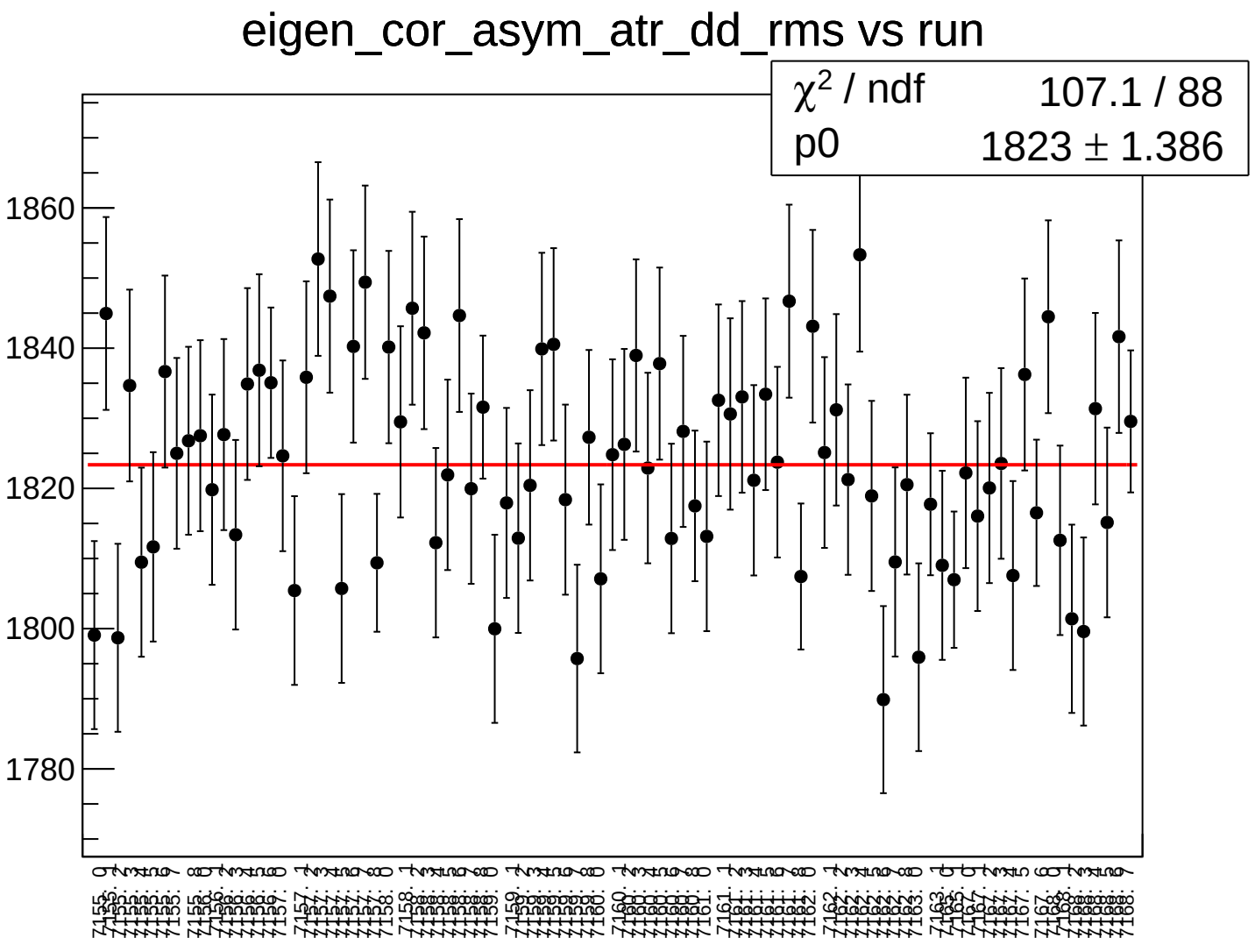

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 68.27 / 88
p0 1718 ± 7707
300
200
100
0
−100
−200
pull
Entries 89
Mean −12.31
Std Dev 0
2
1
0
−1
−2

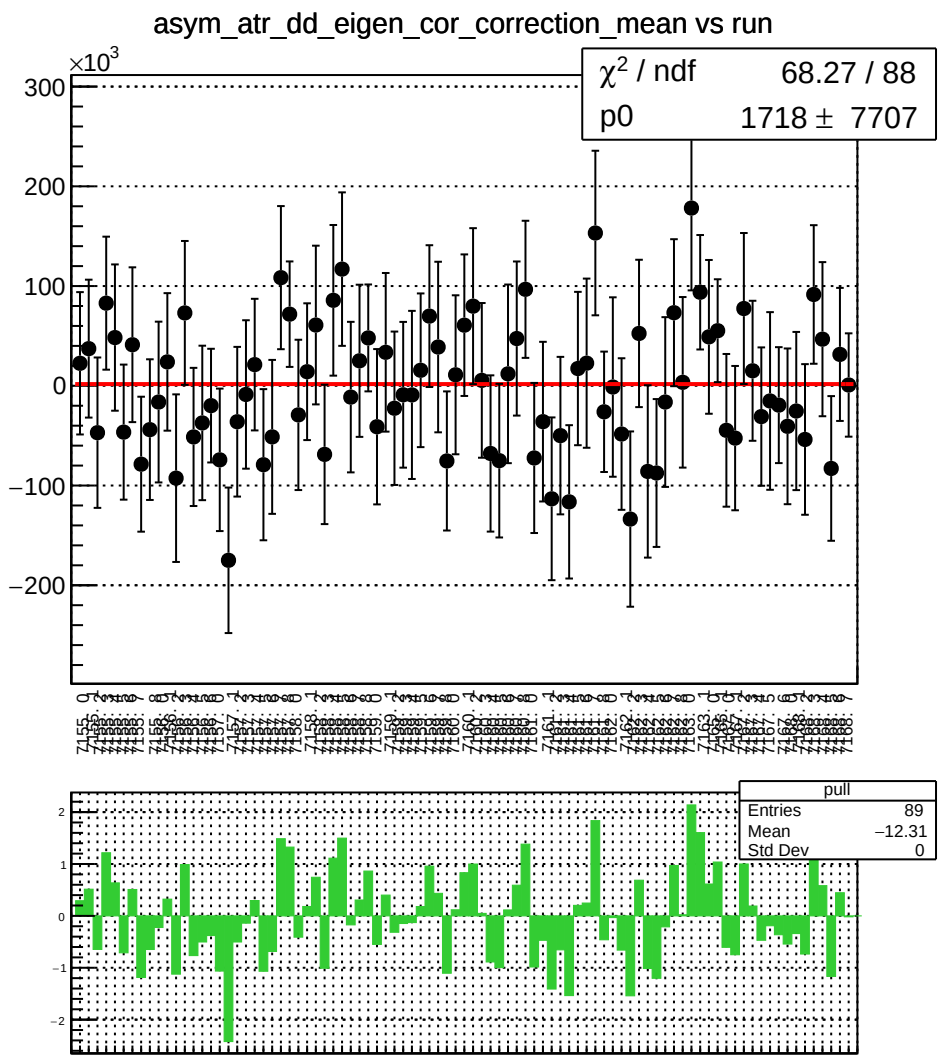

pull1D
Entries 89
Mean −0.02166
Std Dev 0.8756
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

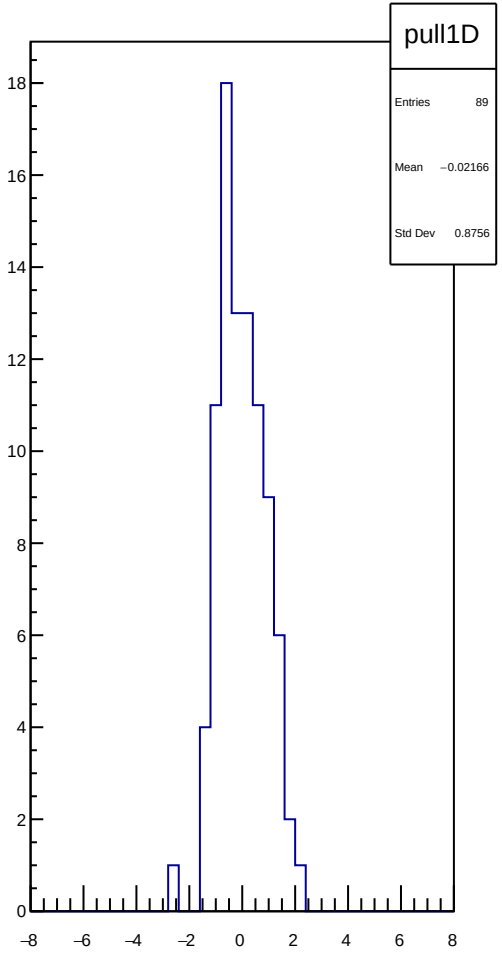

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 8724 / 88
p0 7150 ± 5.45
8500
8000
7500
7000
6500
6000

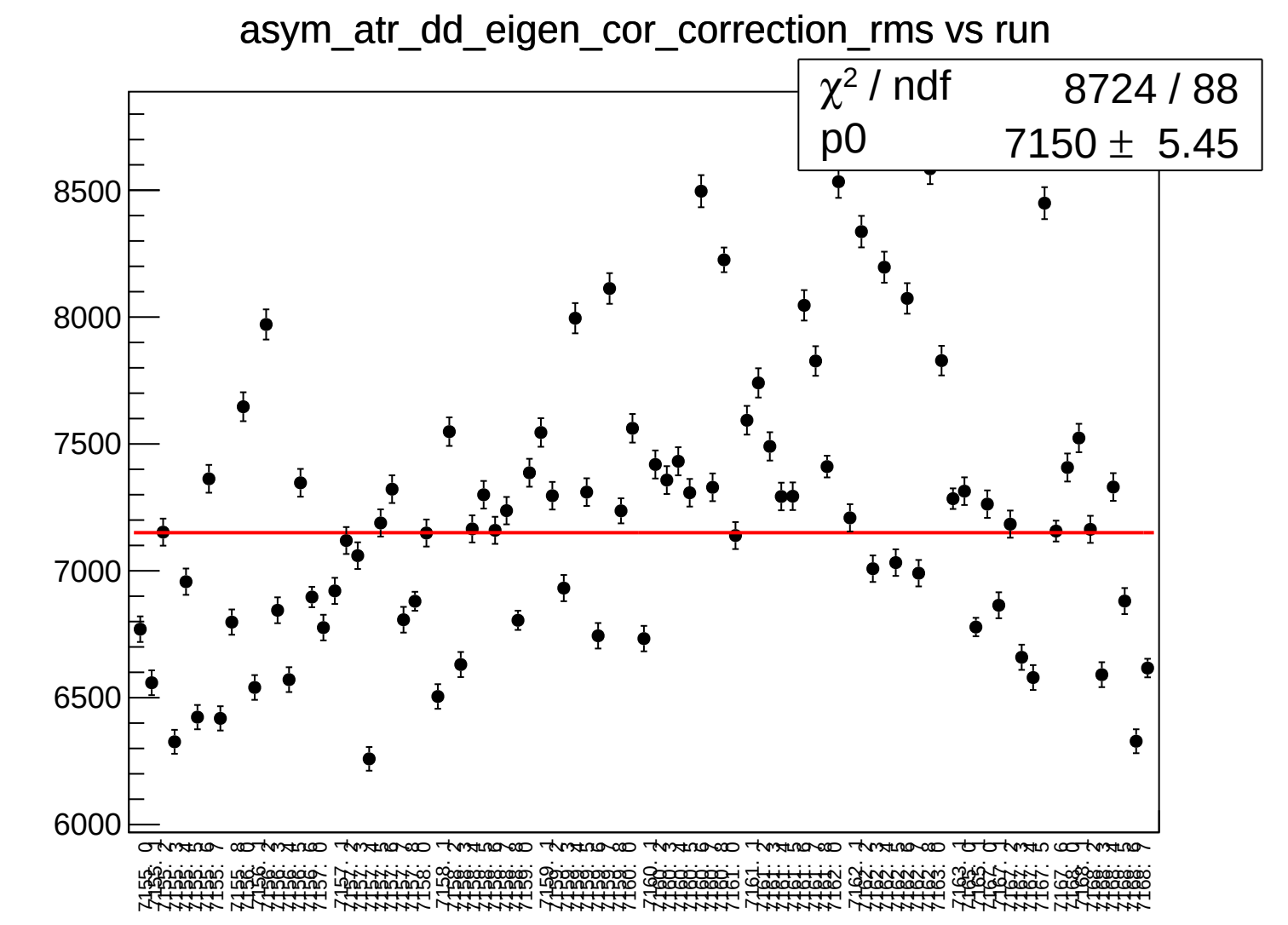

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 100.8 / 88
p0 −1249 ± 1960
pull
Entries 89
Mean 1.268e+04
Std Dev 0

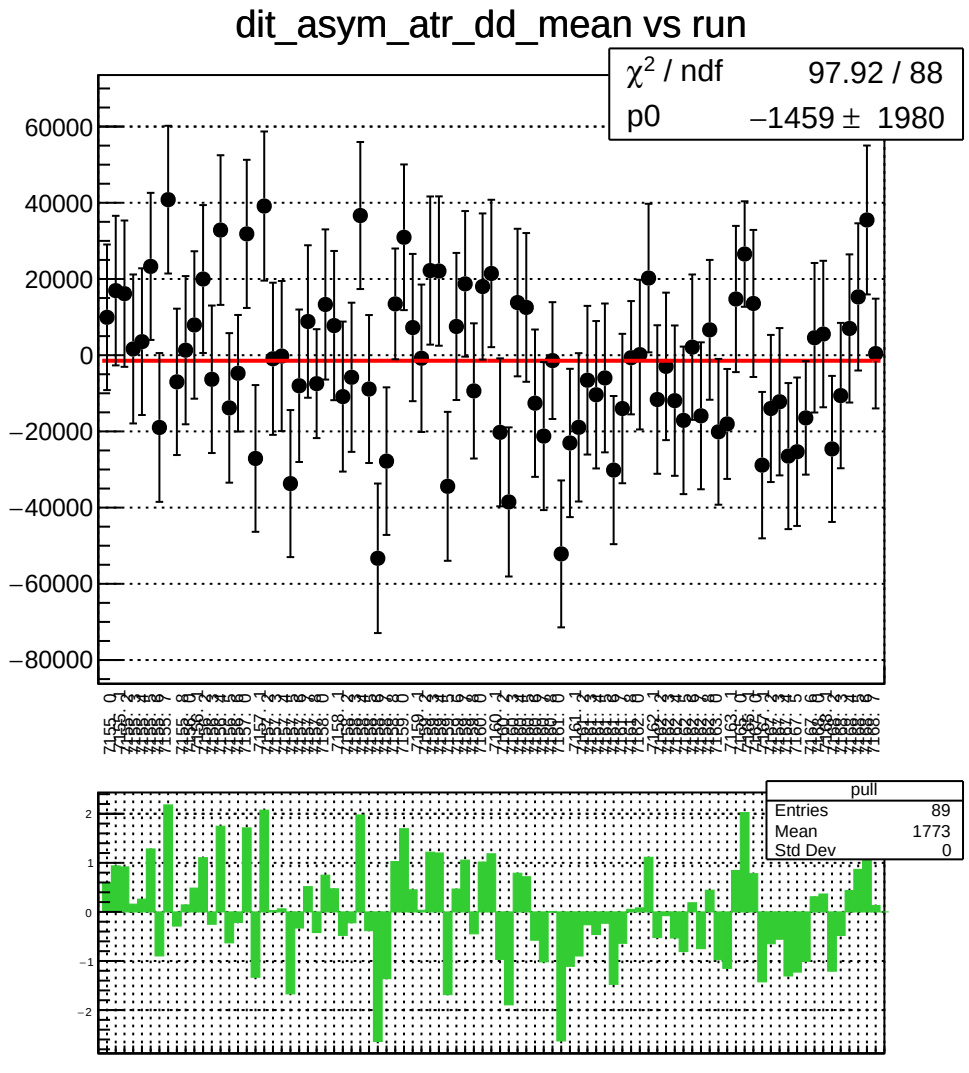

pull1D
Entries 89
Mean −0.0004267
Std Dev 1.064

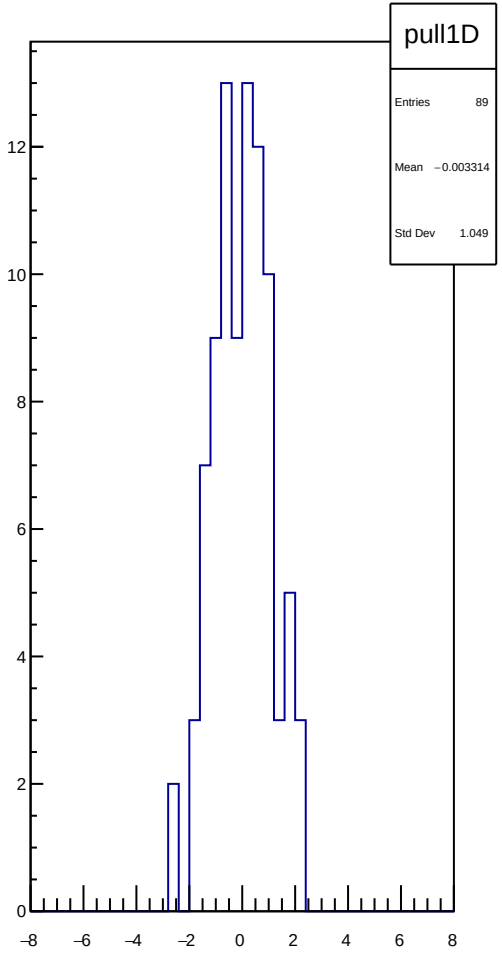

eigen_cor_asym_atr_dd_rms vs run
χ^2 / ndf 107.1 / 88
p0 1823 ± 1.386
1860
1840
1820
1800
1780

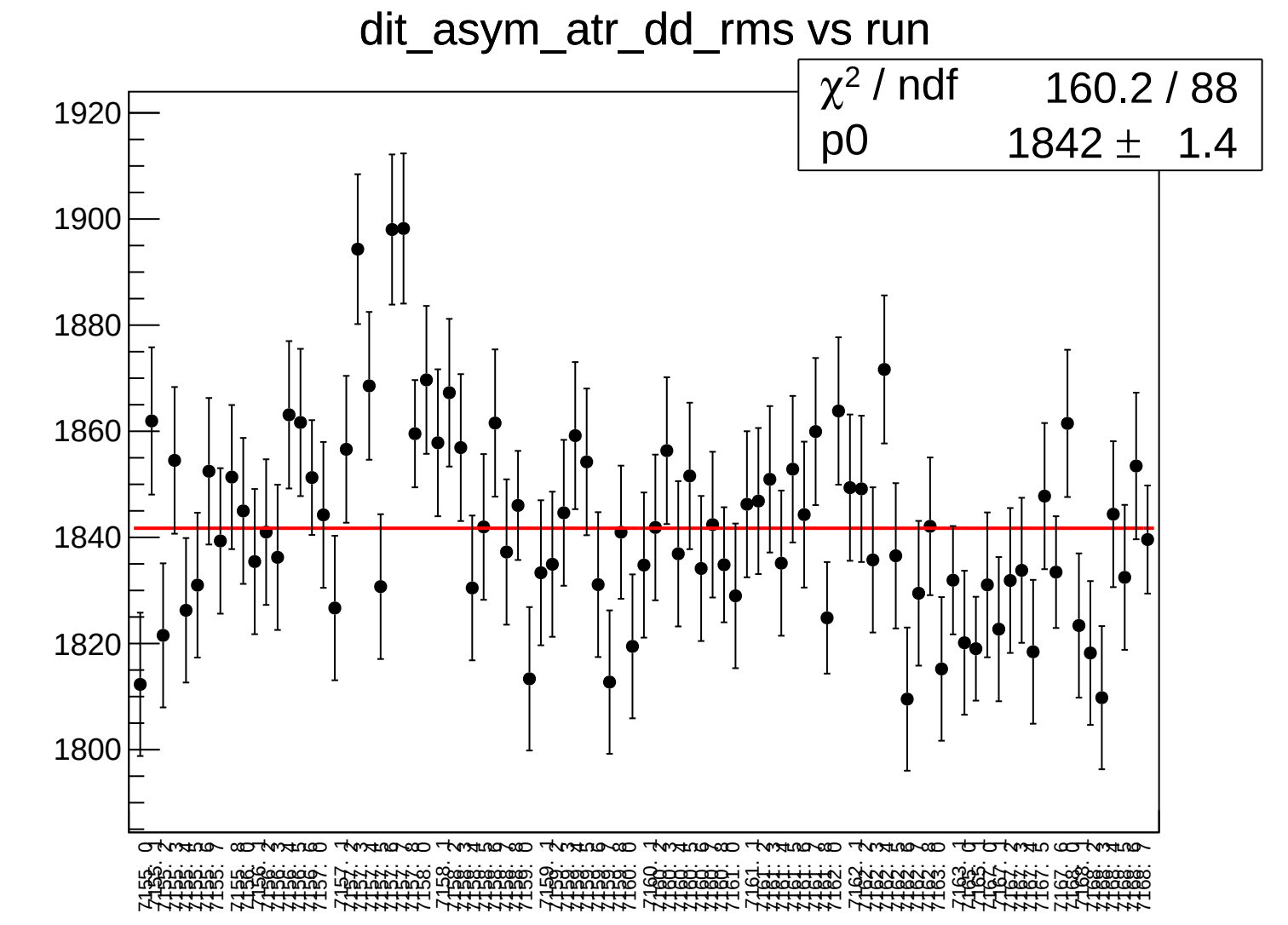

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.27 / 88
p0 1718 ± 7707
pull
Entries 89
Mean −12.31
Std Dev 0

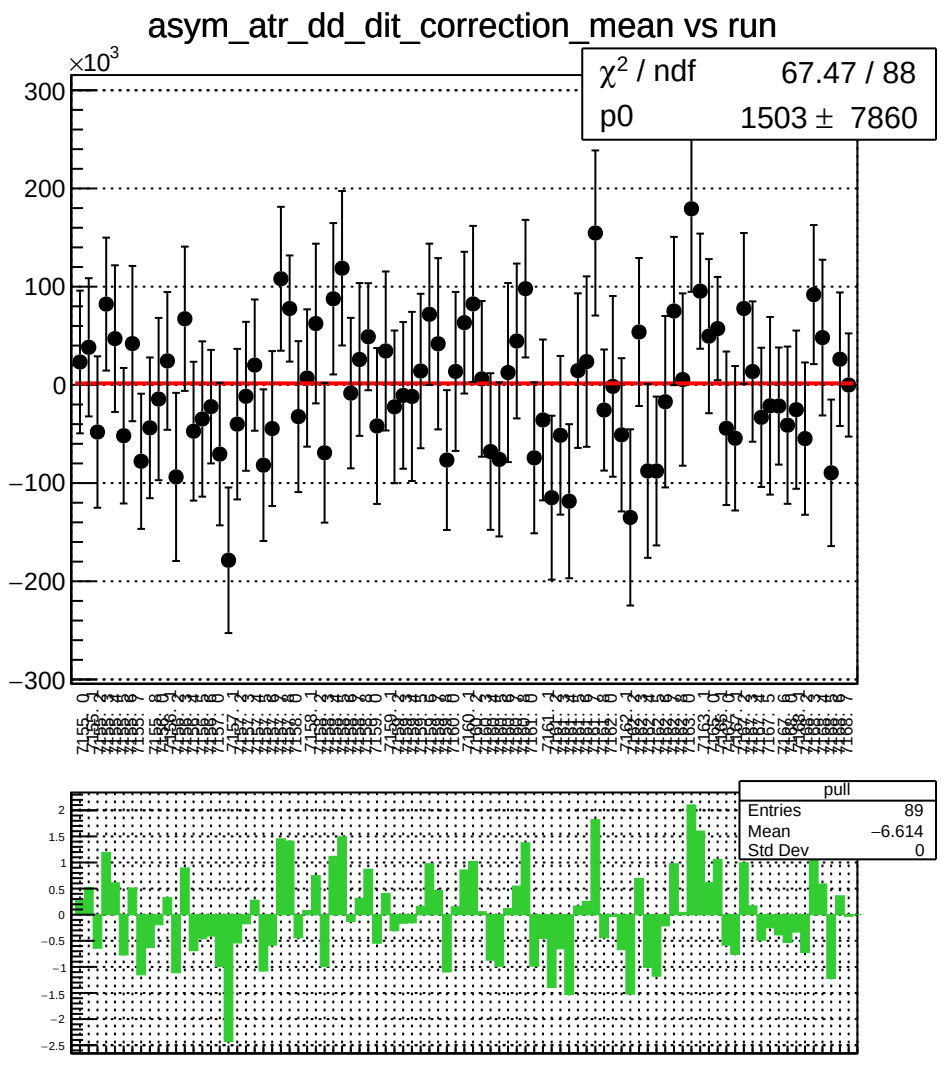

pull1D
Entries 89
Mean −0.02166
Std Dev 0.8756

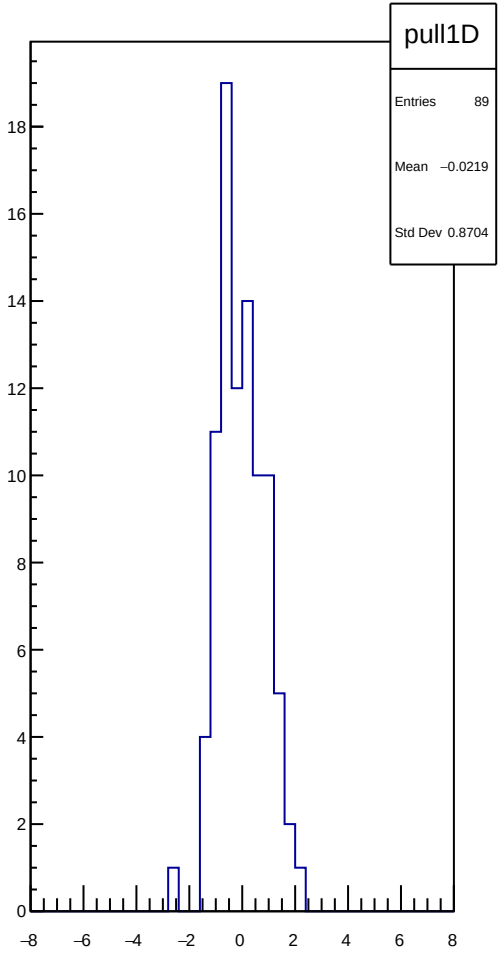

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 8724 / 88
p0 7150 ± 5.45
8500
8000
7500
7000
6500
6000

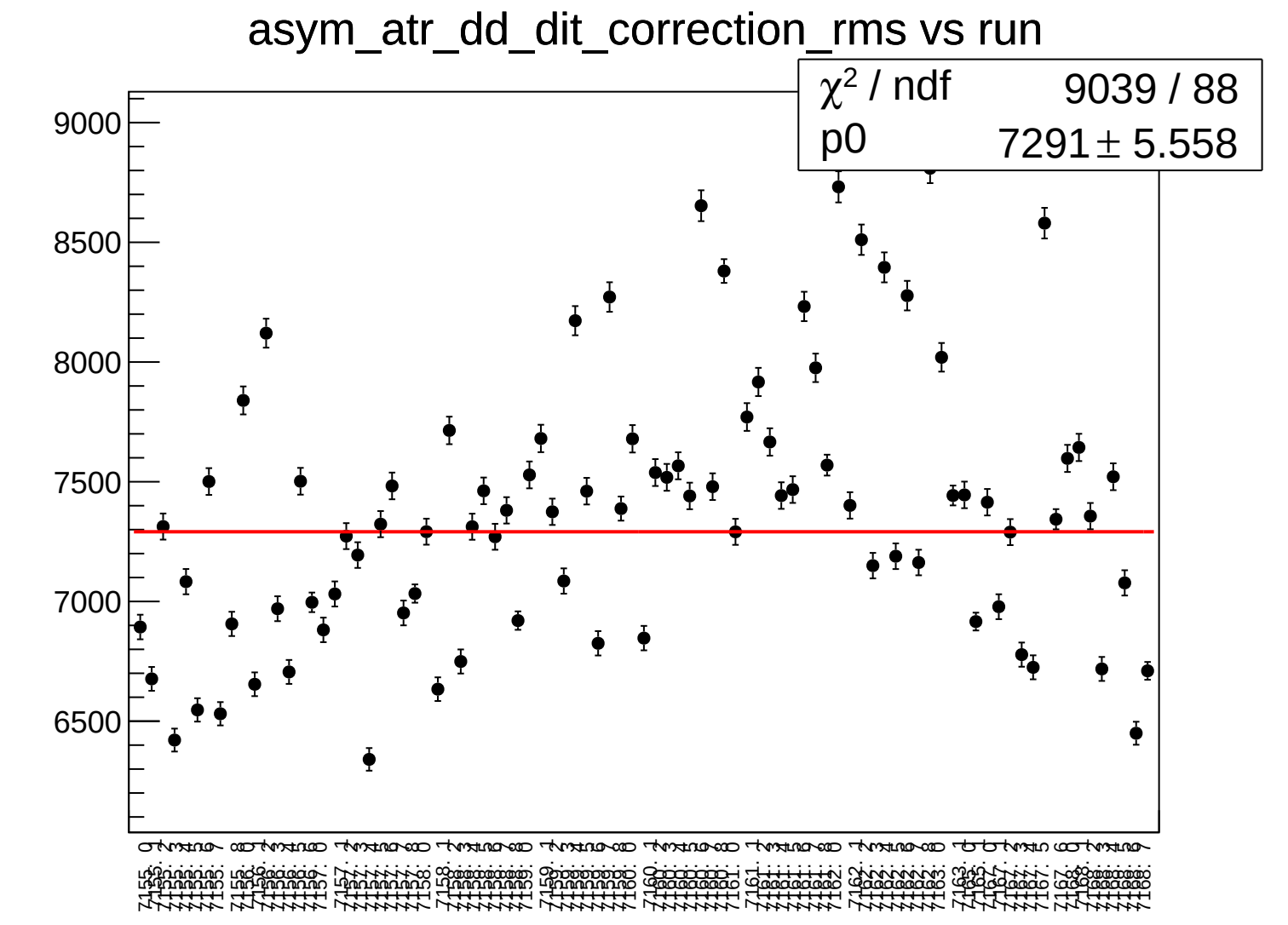

dit_asym_atr_dd_mean vs run
χ² / ndf 97.92 / 88
p0 −1459 ± 1980
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1773
Std Dev 0
2
1
0
−1
−2

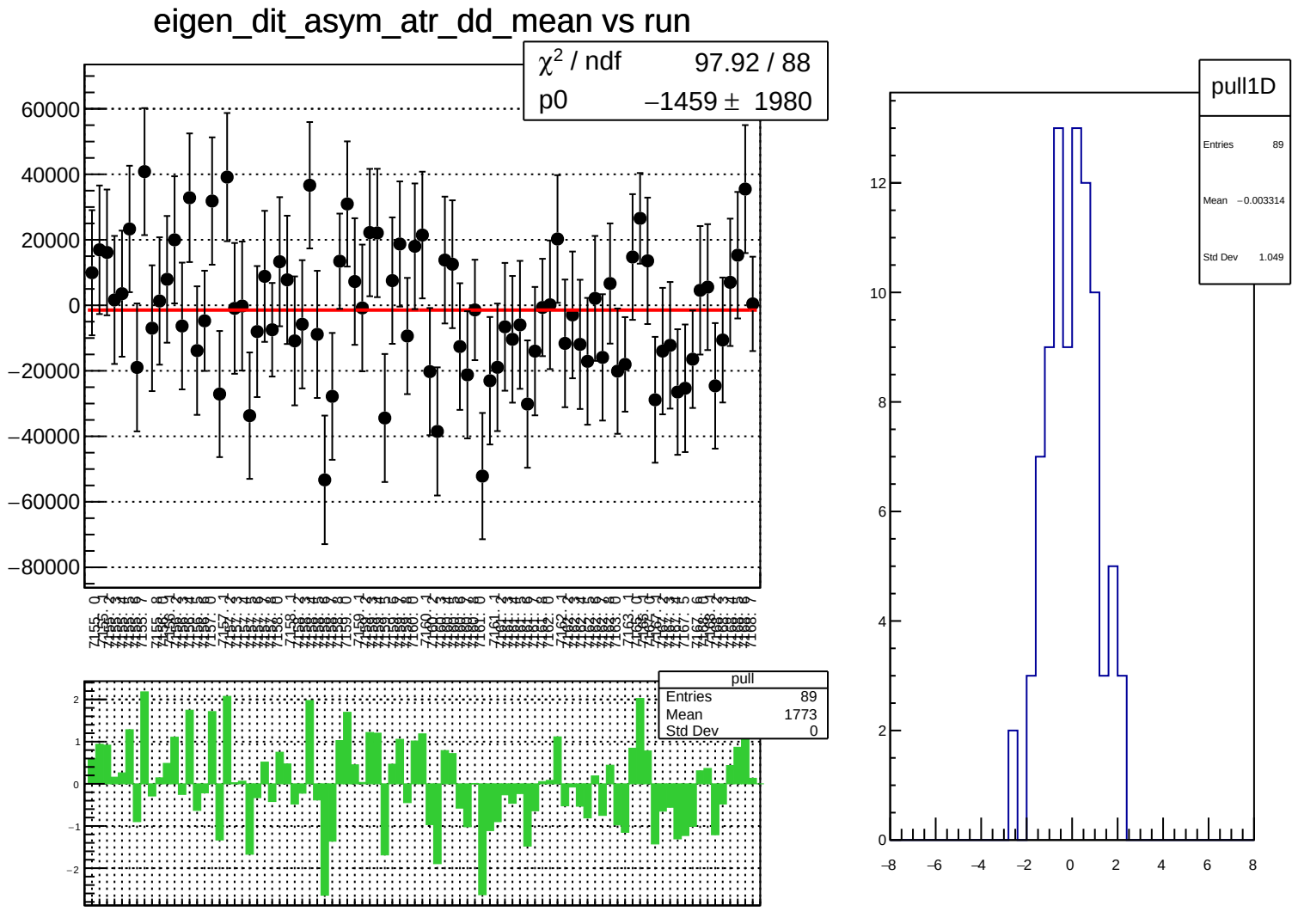

pull1D
Entries 89
Mean −0.003314
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

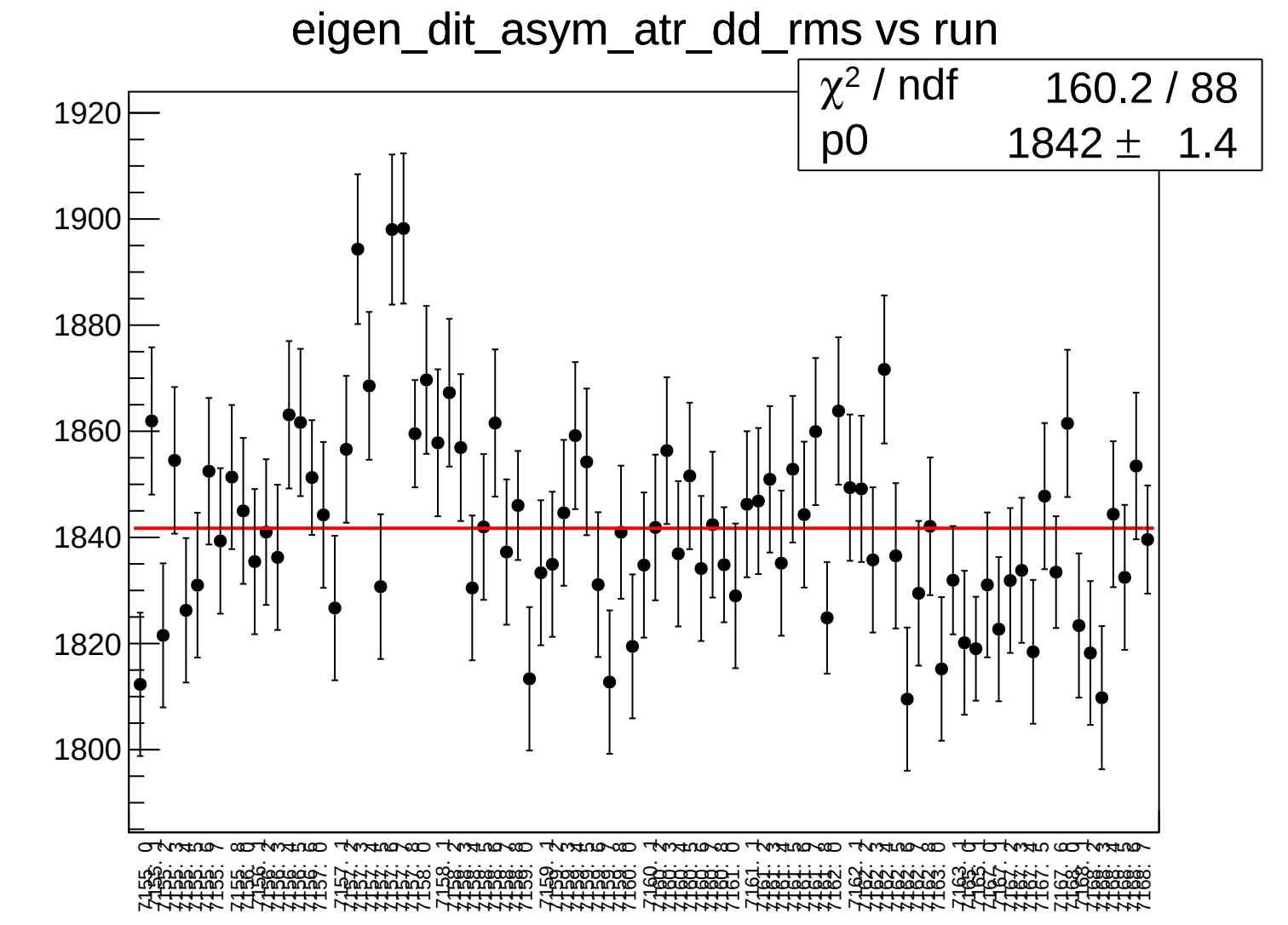

dit_asym_atr_dd_rms vs run
χ² / ndf 160.2 / 88
p0 1842 ± 1.4
1920
1900
1880
1860
1840
1820
1800

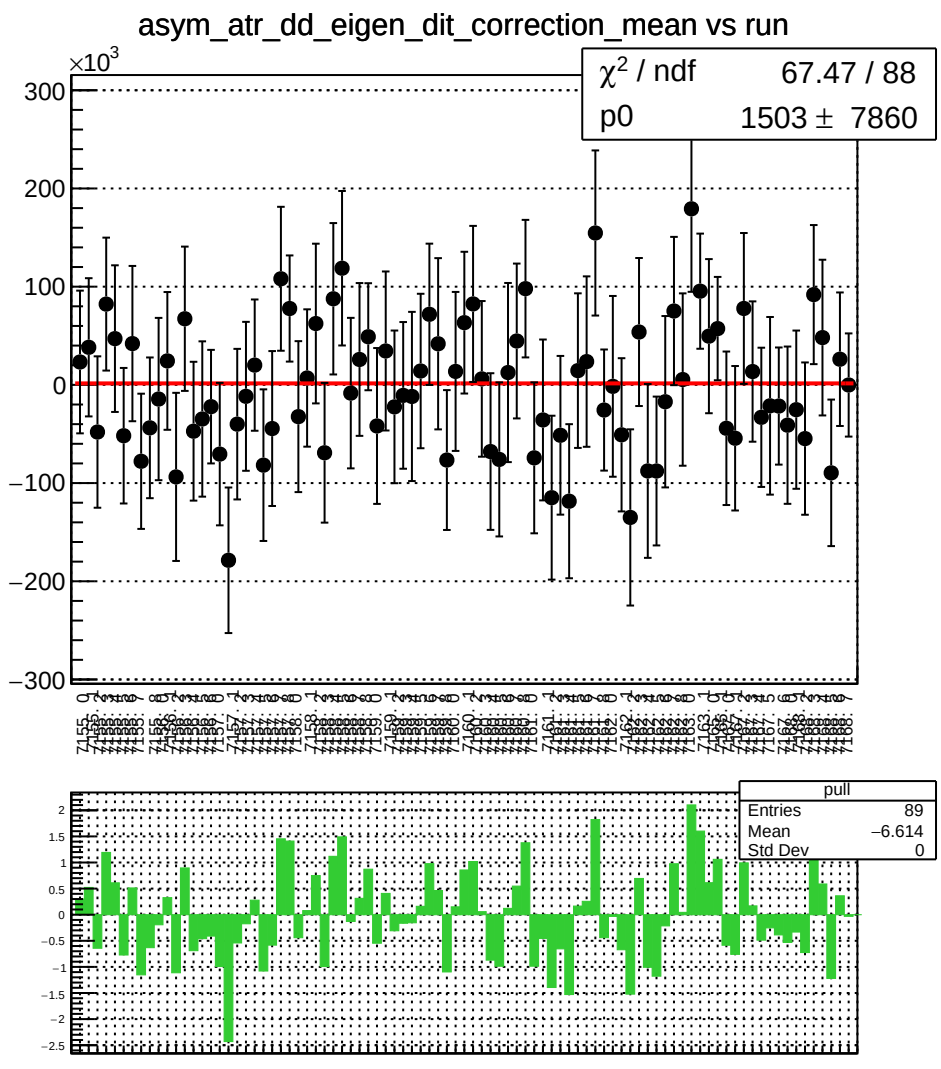

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 67.47 / 88
p0 1503 ± 7860
pull
Entries 89
Mean −6.614
Std Dev 0

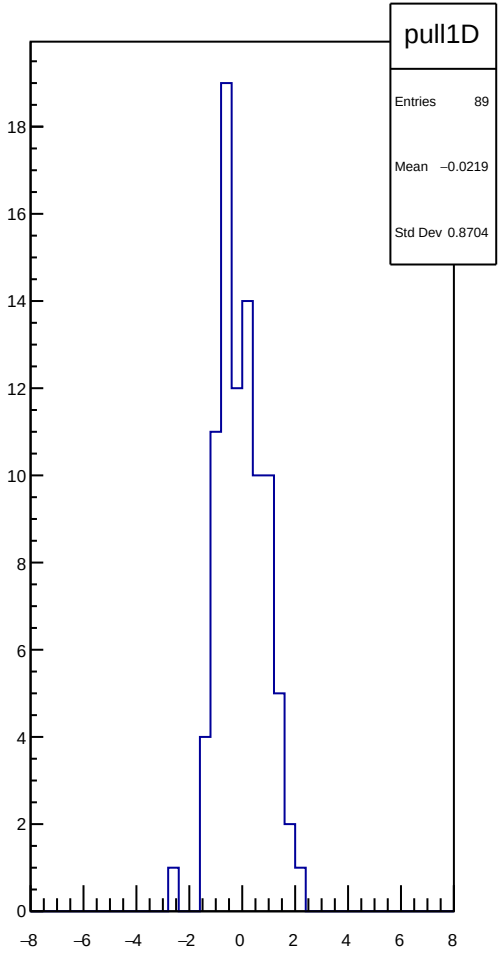

pull1D
Entries 89
Mean −0.0219
Std Dev 0.8704

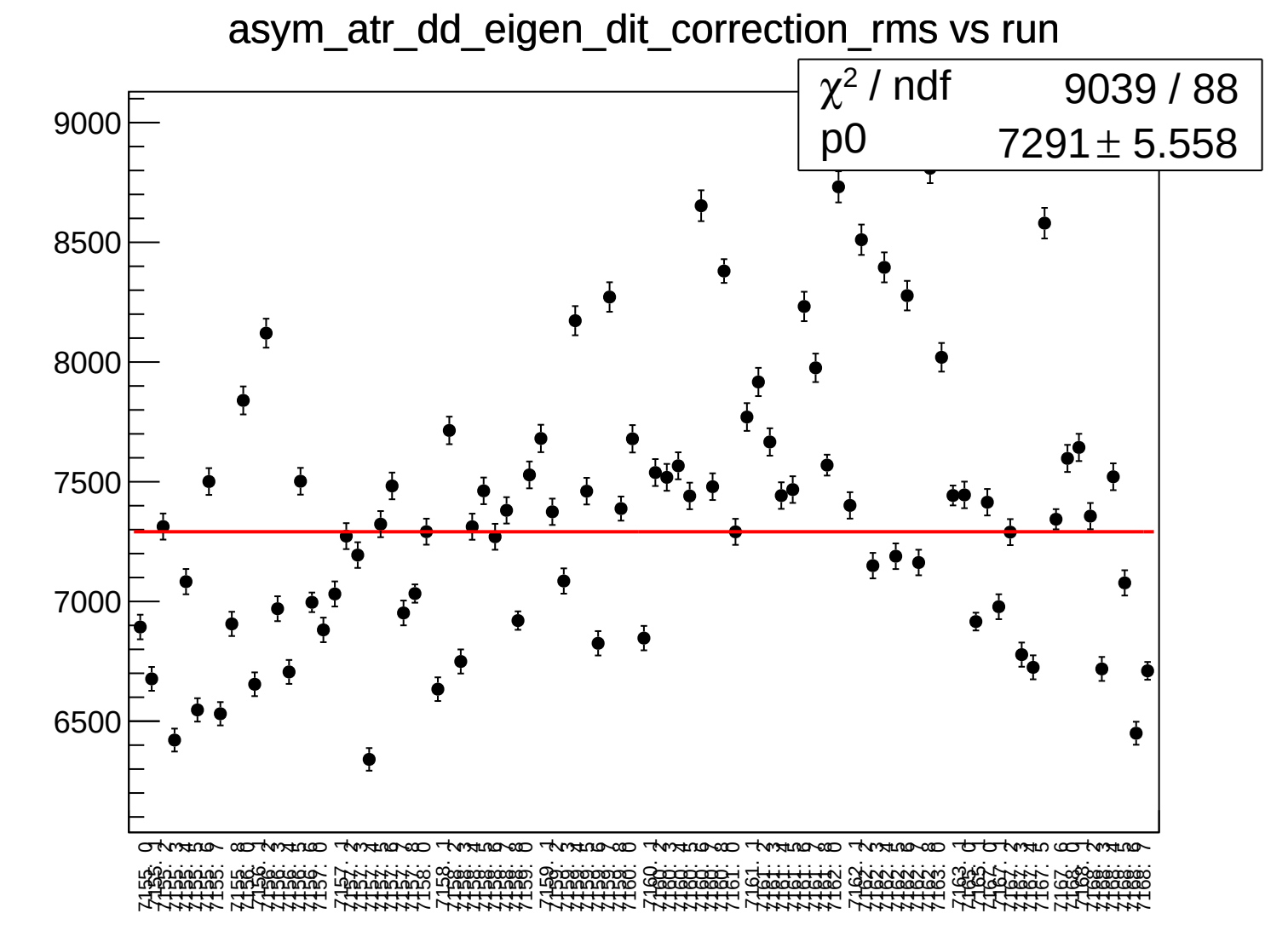

asym_atr_dd_dit_correction_rms vs run
χ^2 / ndf 9039 / 88
p0 7291 ± 5.558
9000
8500
8000
7500
7000
6500

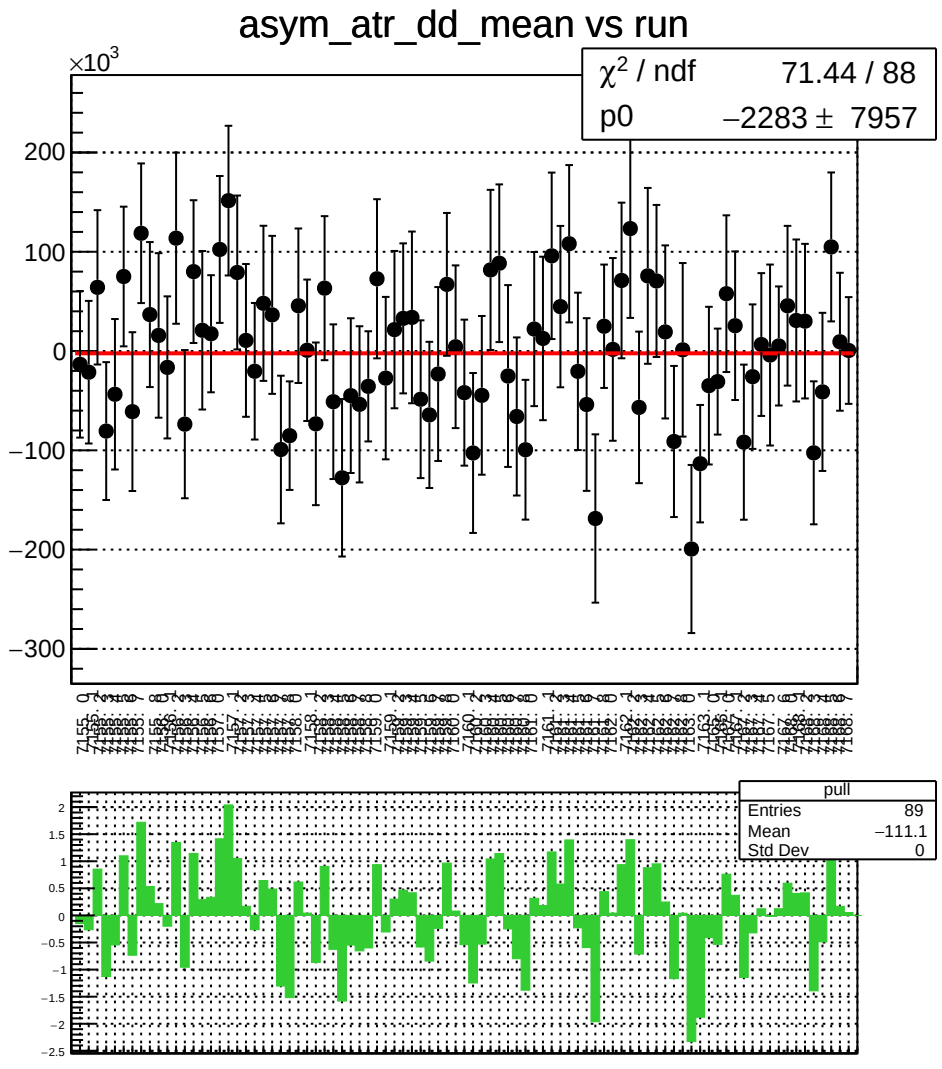

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 97.92 / 88
p0 −1459 ± 1980
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 1773
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.003314
Std Dev 1.049
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

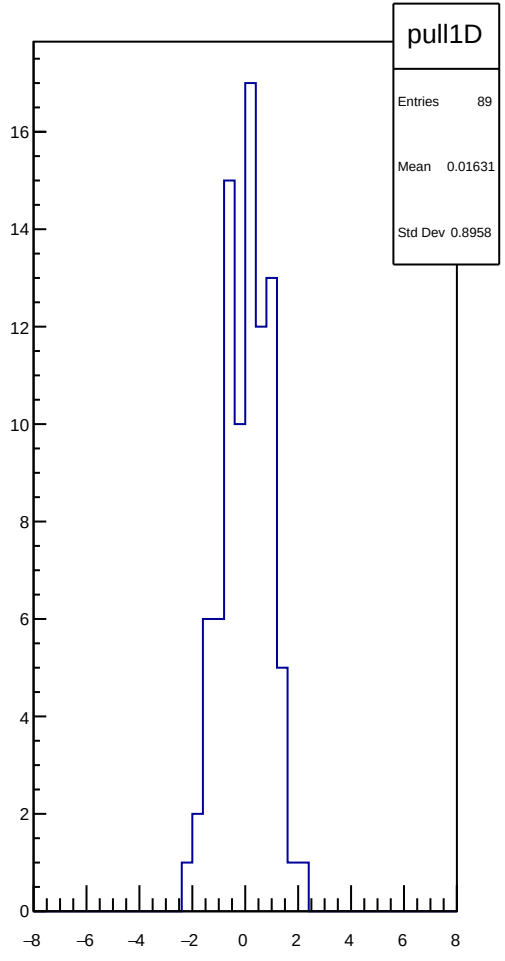

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 160.2 / 88
p0 1842 ± 1.4
1920
1900
1880
1860
1840
1820
1800

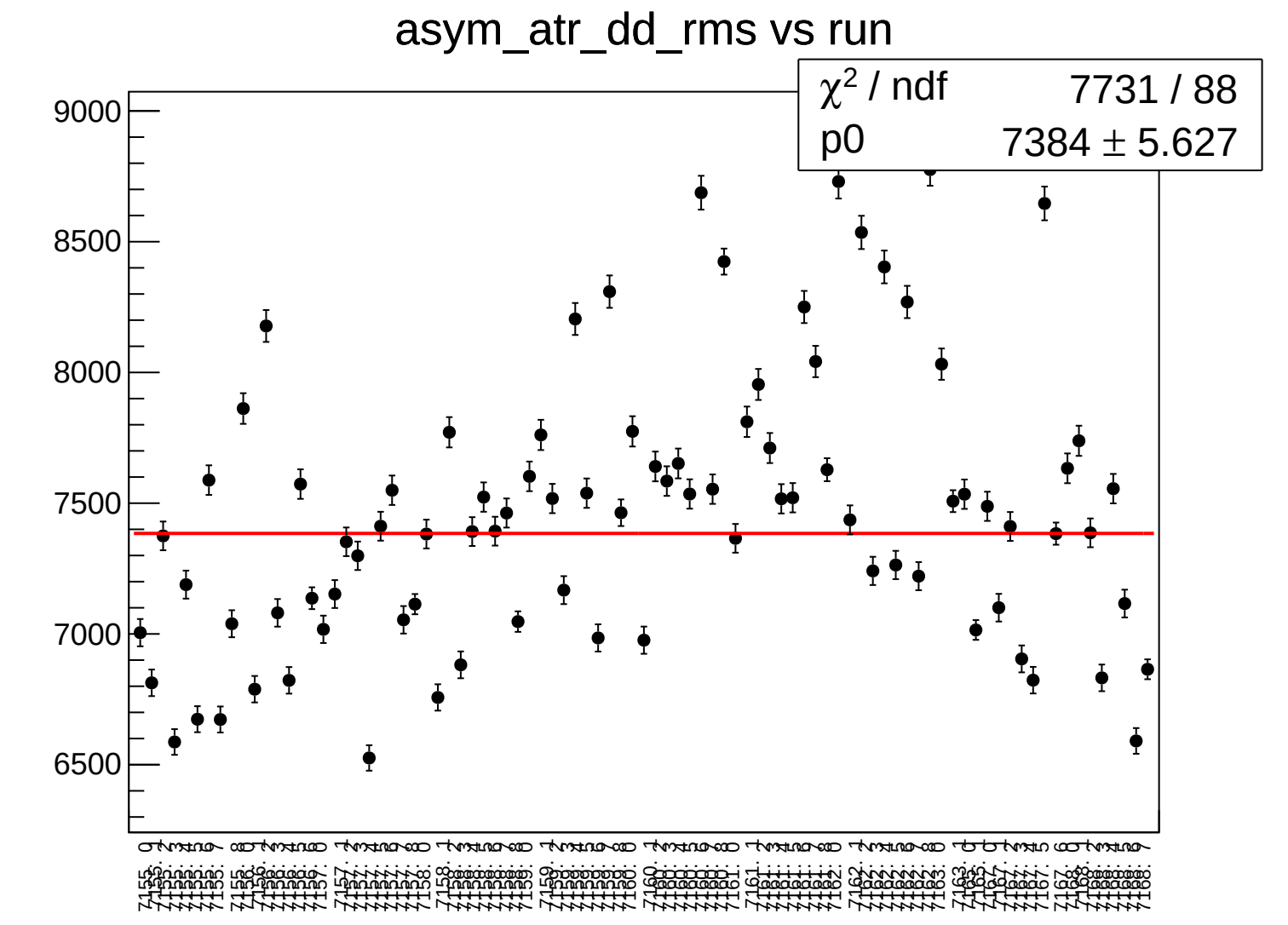

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.47 / 88
p0 1503 ± 7860
pull
Entries 89
Mean −6.614
Std Dev 0

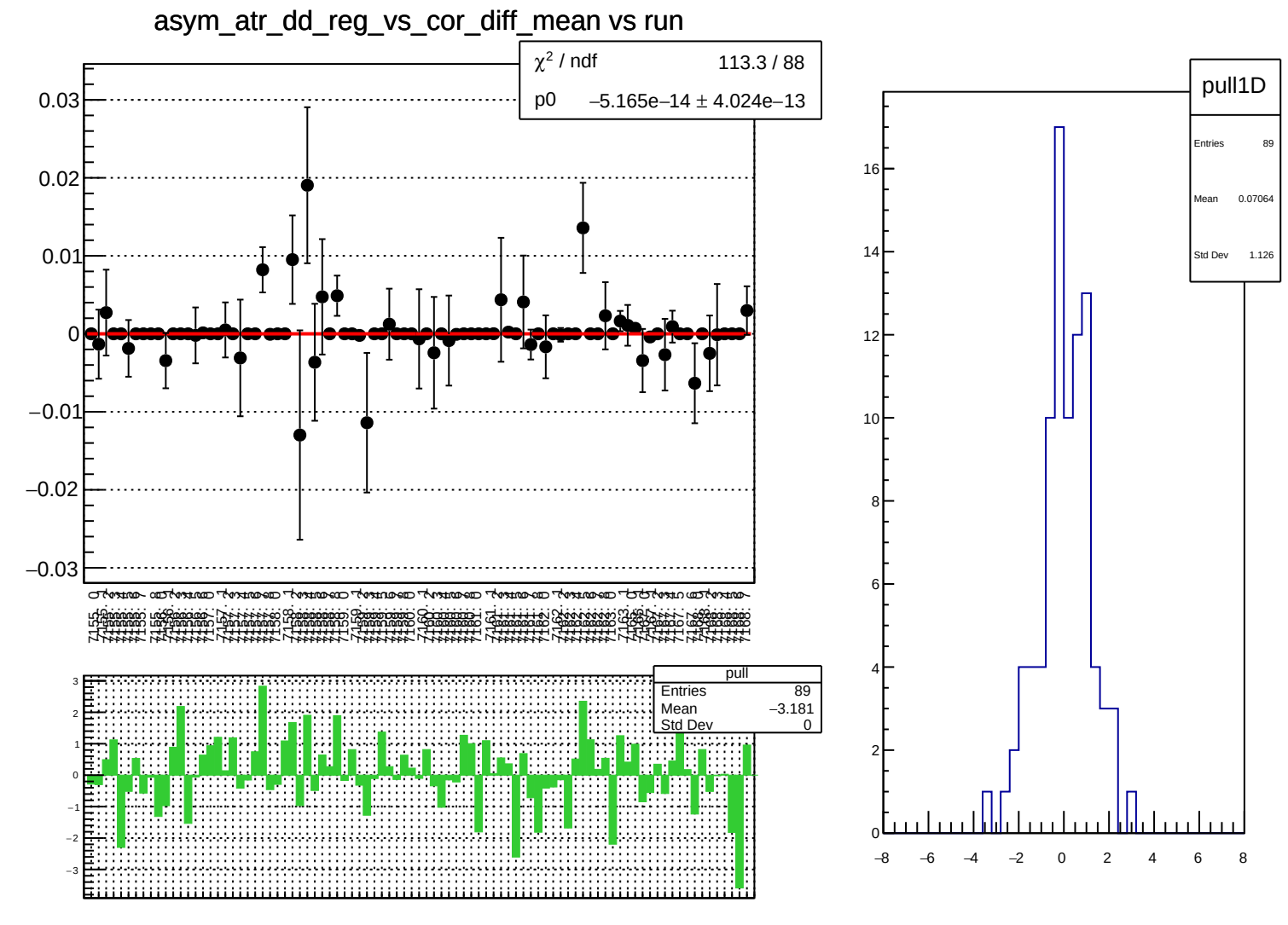

pull1D
Entries 89
Mean −0.0219
Std Dev 0.8704

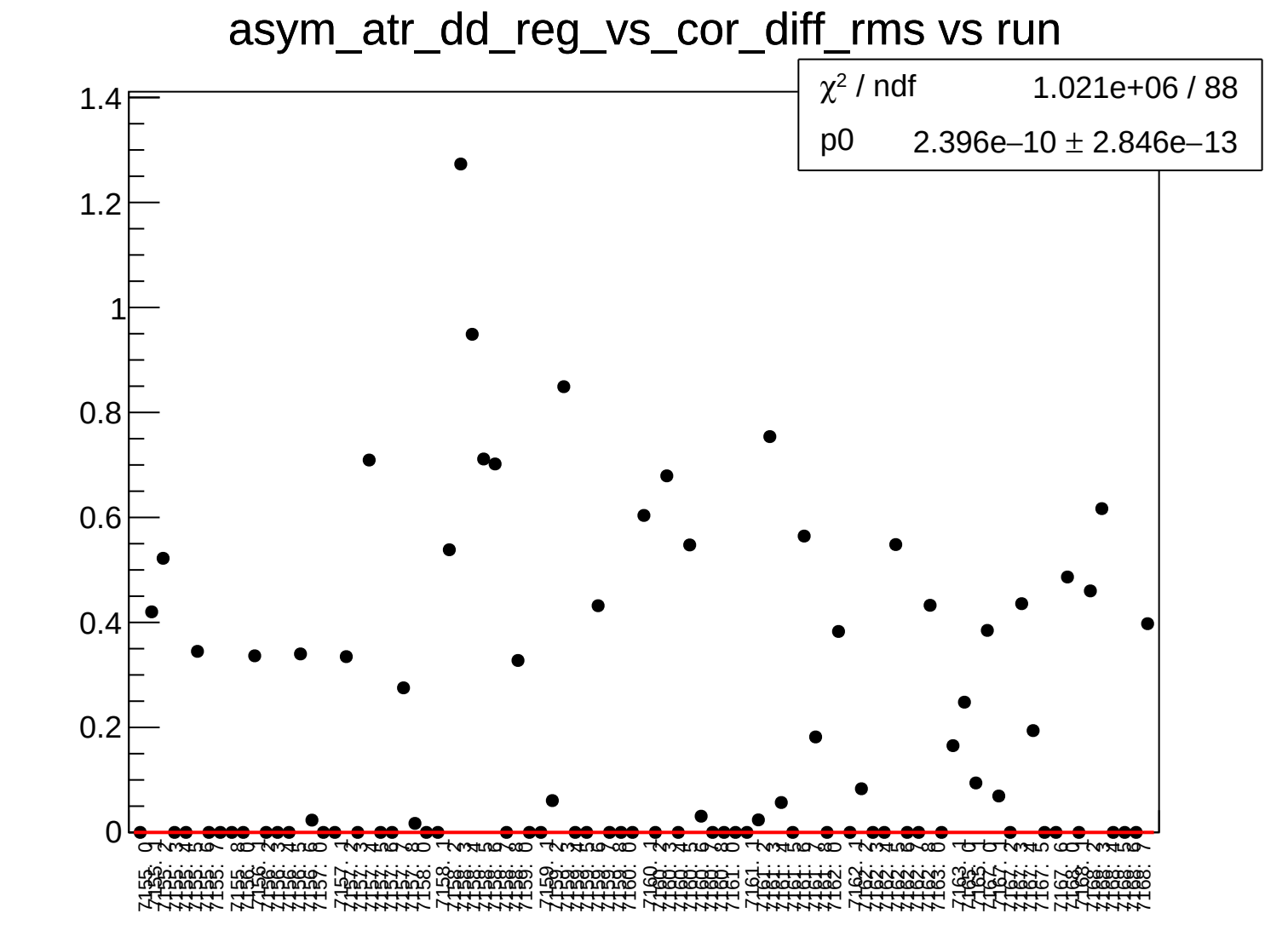

asym_atr_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 9039 / 88
p0 7291 ± 5.558
9000
8500
8000
7500
7000
6500

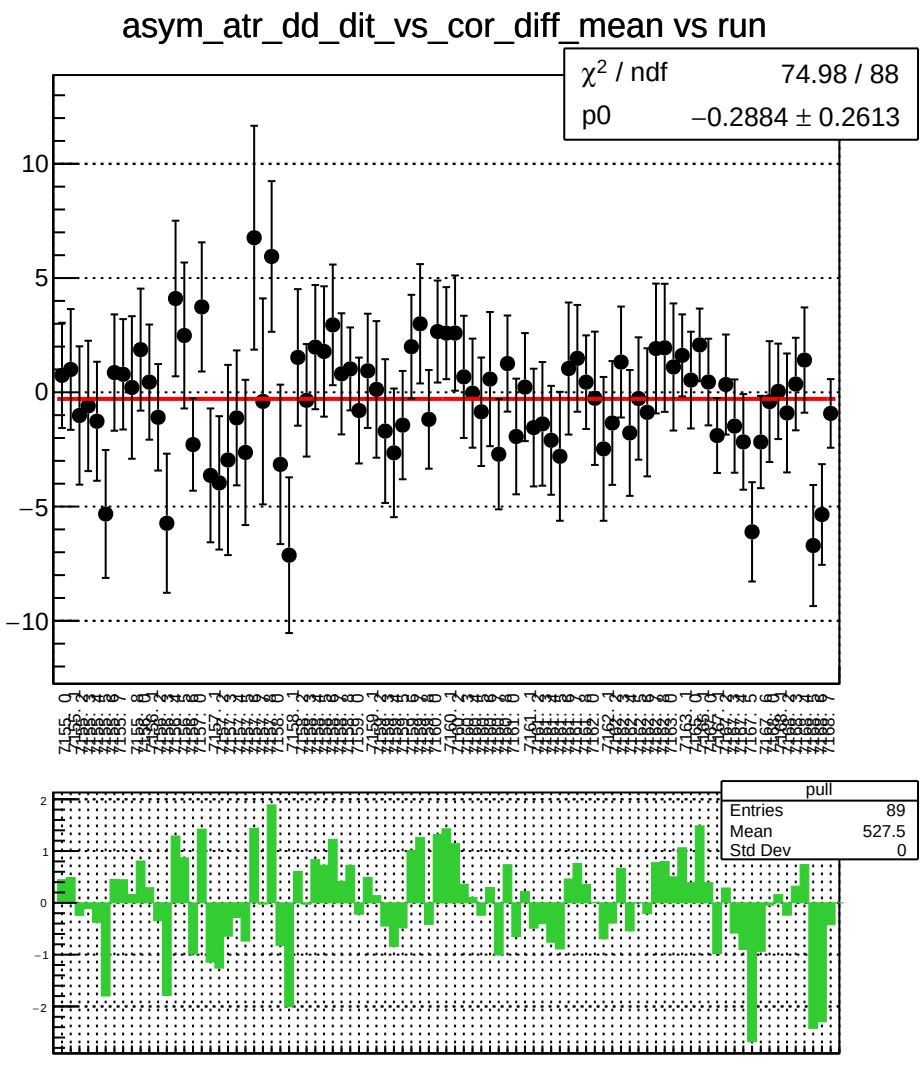

asym_atr_dd_mean vs run
×10^3
χ² / ndf 71.44 / 88
p0 −2283 ± 7957
200
100
0
−100
−200
−300
pull
Entries 89
Mean −111.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

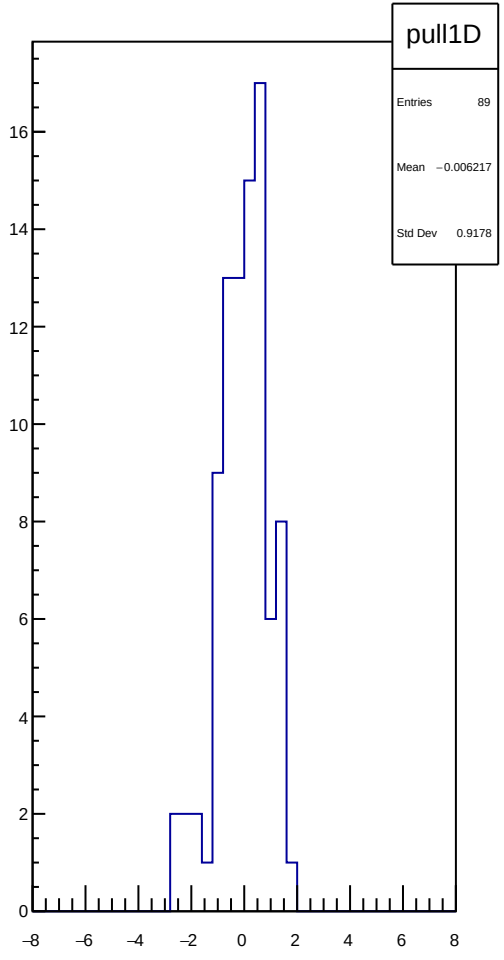

pull1D
Entries 89
Mean 0.01631
Std Dev 0.8958
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

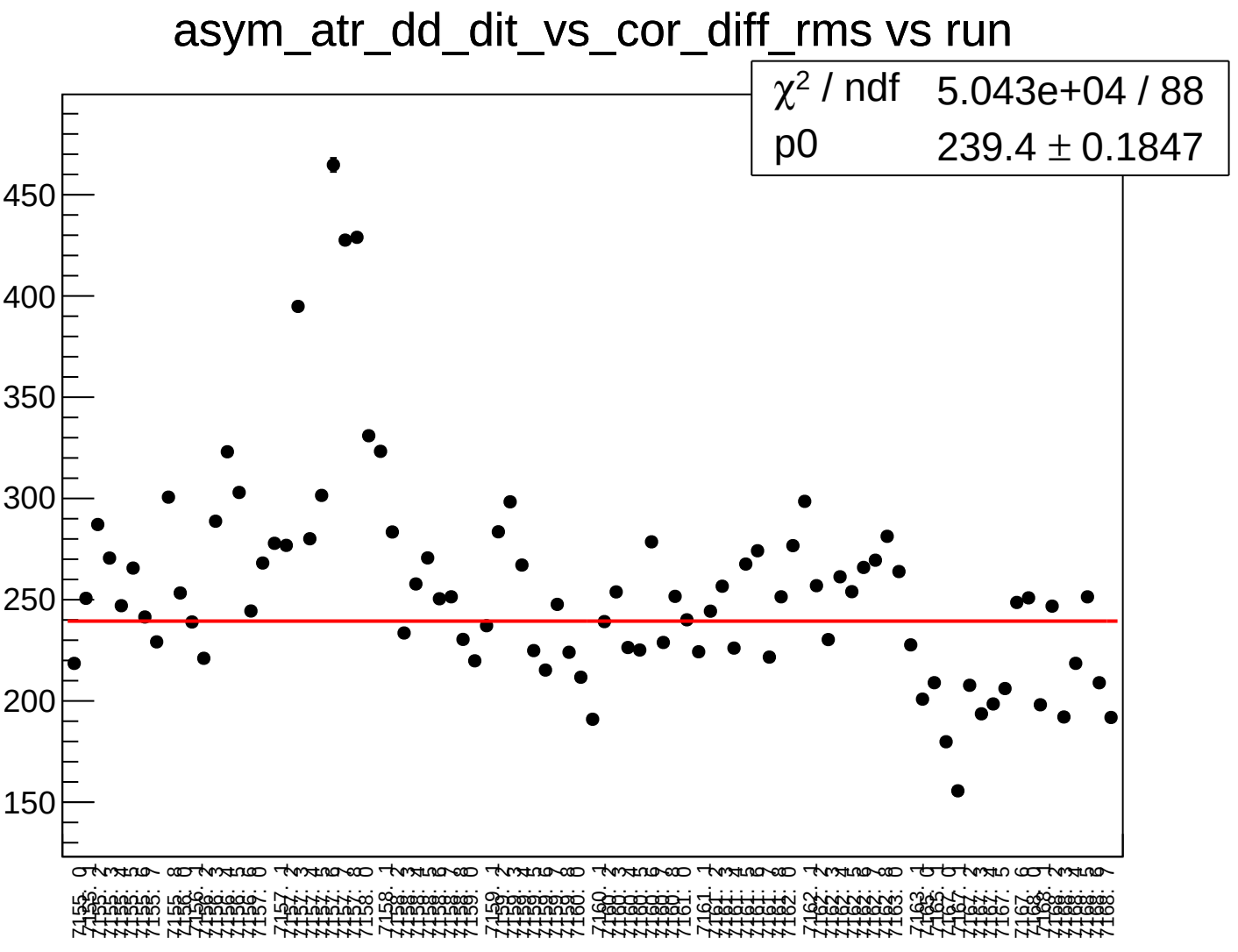

asym_atr_dd_rms vs run
χ² / ndf 7731 / 88
p0 7384 ± 5.627
9000
8500
8000
7500
7000
6500

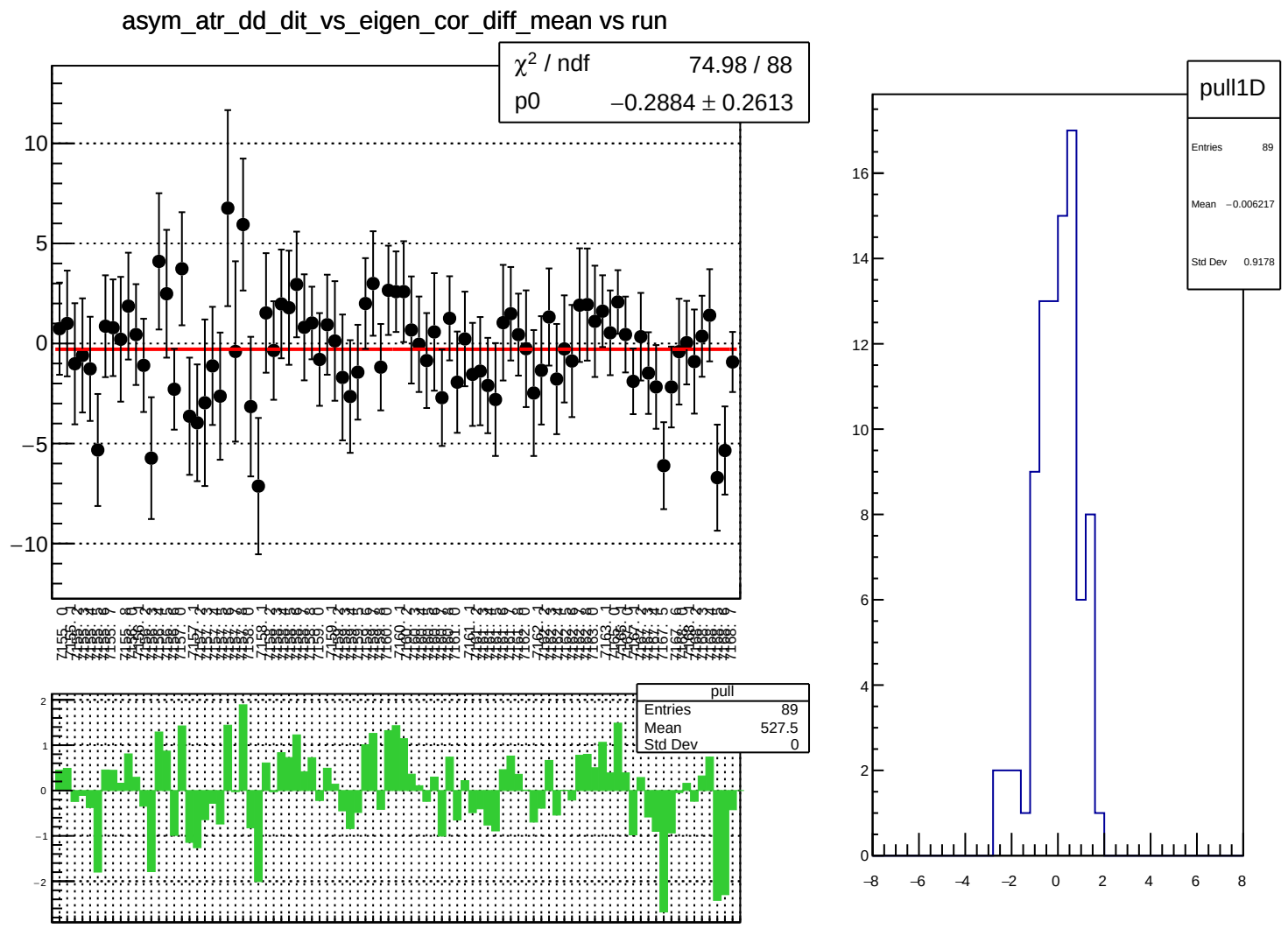

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.3 / 88
p0 −5.165e−14 ± 4.024e−13
pull
Entries 89
Mean −3.181
Std Dev 0
pull1D
Entries 89
Mean 0.07064
Std Dev 1.126

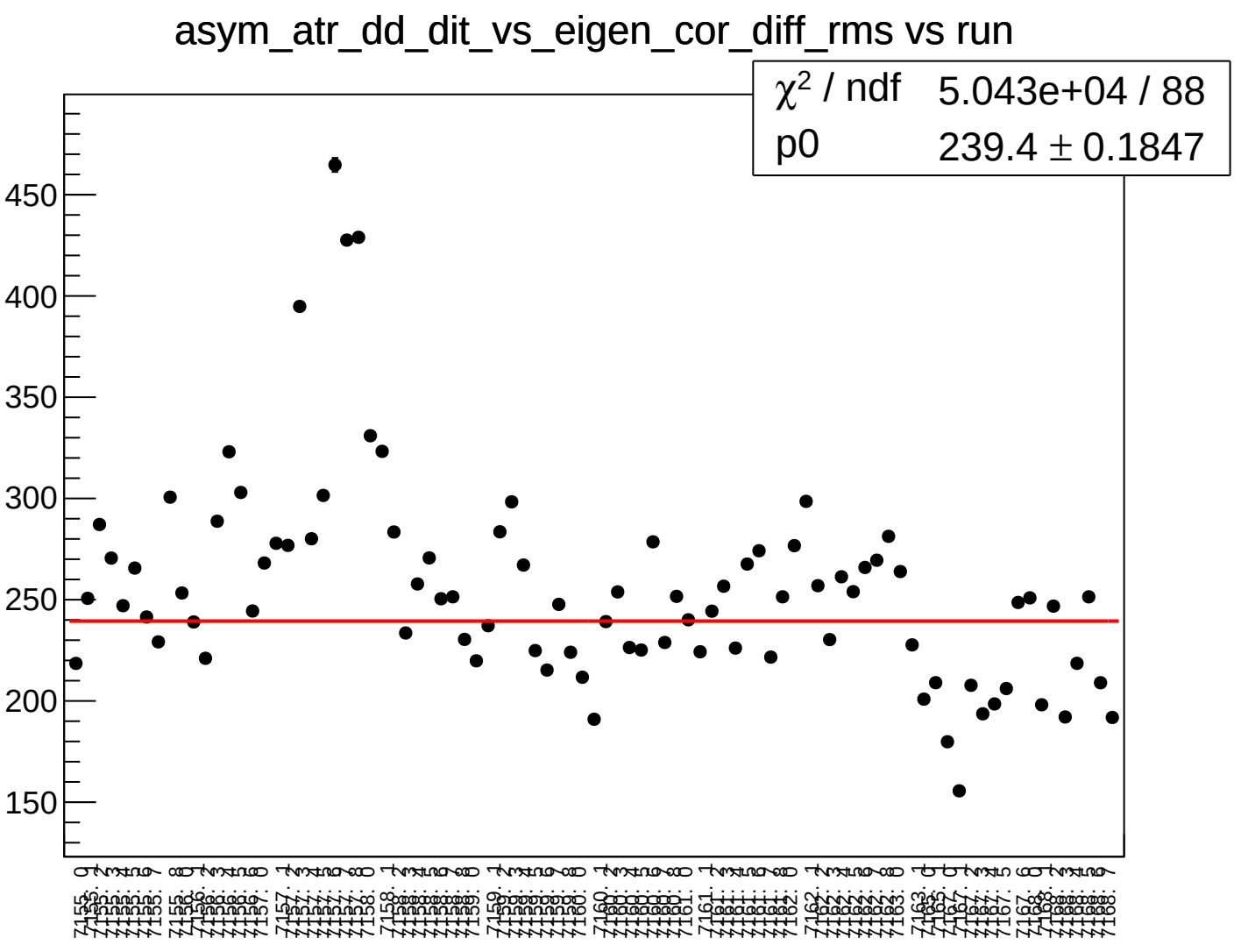

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.021e+06 / 88
p0 2.396e−10 ± 2.846e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

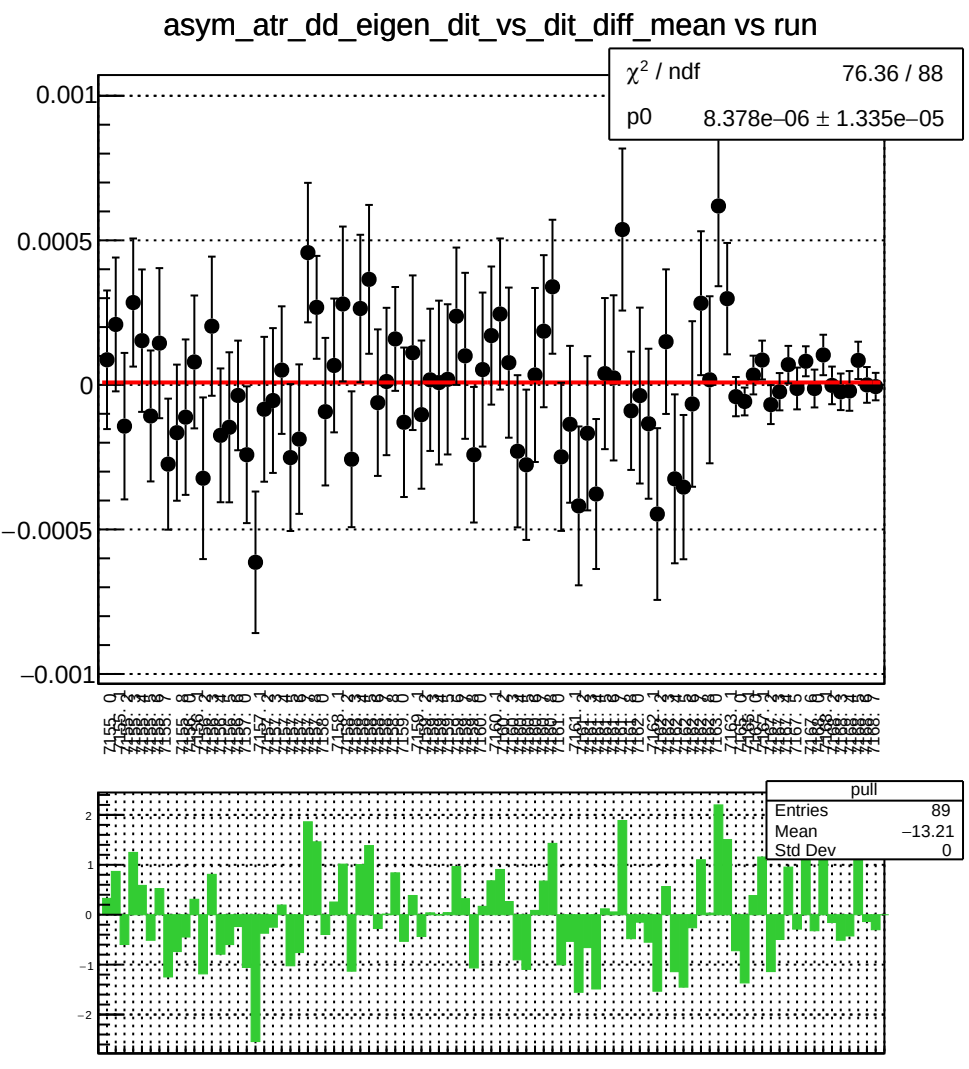

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 −0.2884 ± 0.2613
10
5
0
−5
−10
pull
Entries 89
Mean 527.5
Std Dev 0
2
1
0
−1
−2

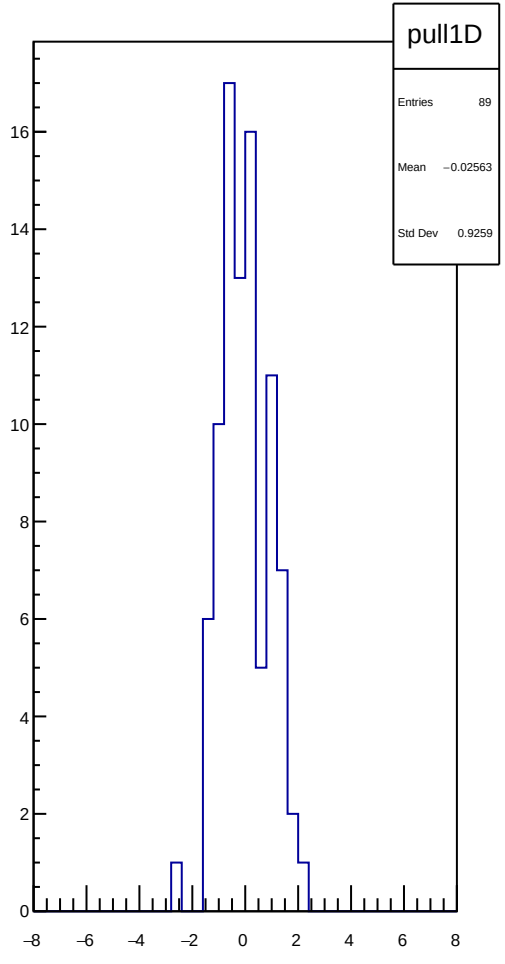

pull1D
Entries 89
Mean −0.006217
Std Dev 0.9178
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

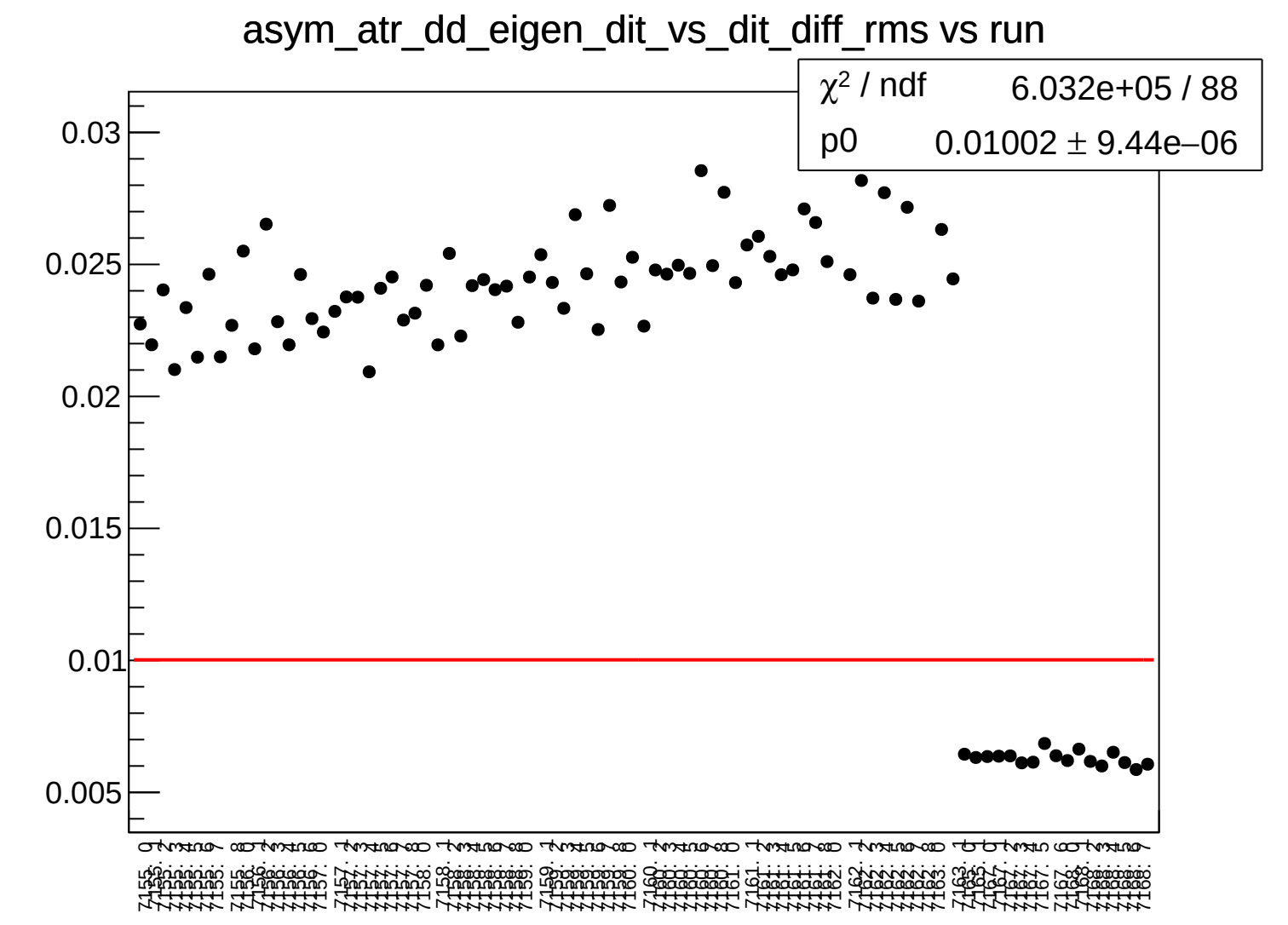

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 88
p0 239.4 ± 0.1847
450
400
350
300
250
200
150

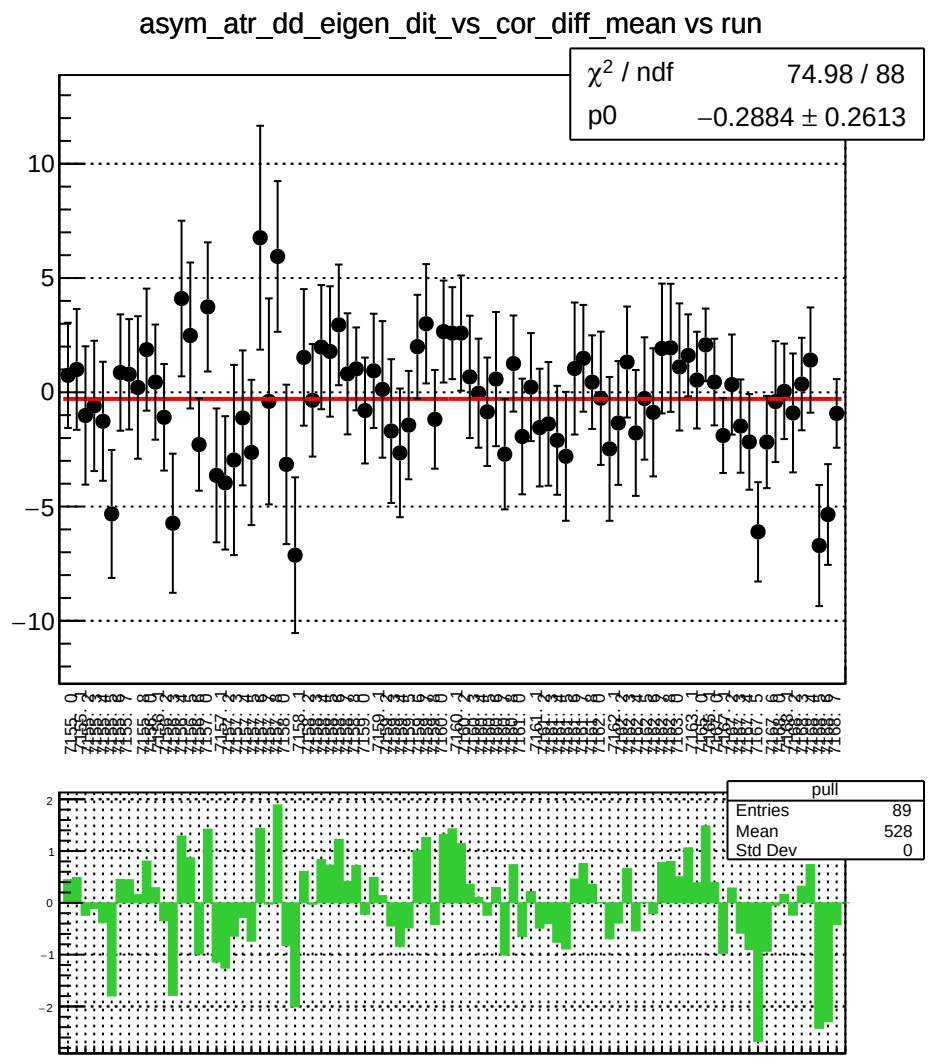

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 −0.2884 ± 0.2613
pull
Entries 89
Mean 527.5
Std Dev 0
pull1D
Entries 89
Mean −0.006217
Std Dev 0.9178

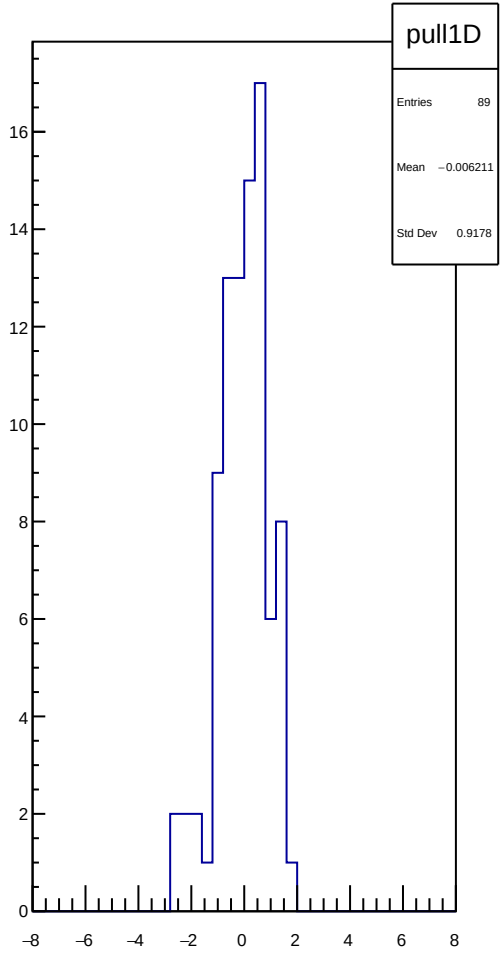

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.043e+04 / 88
p0 239.4 ± 0.1847
450
400
350
300
250
200
150

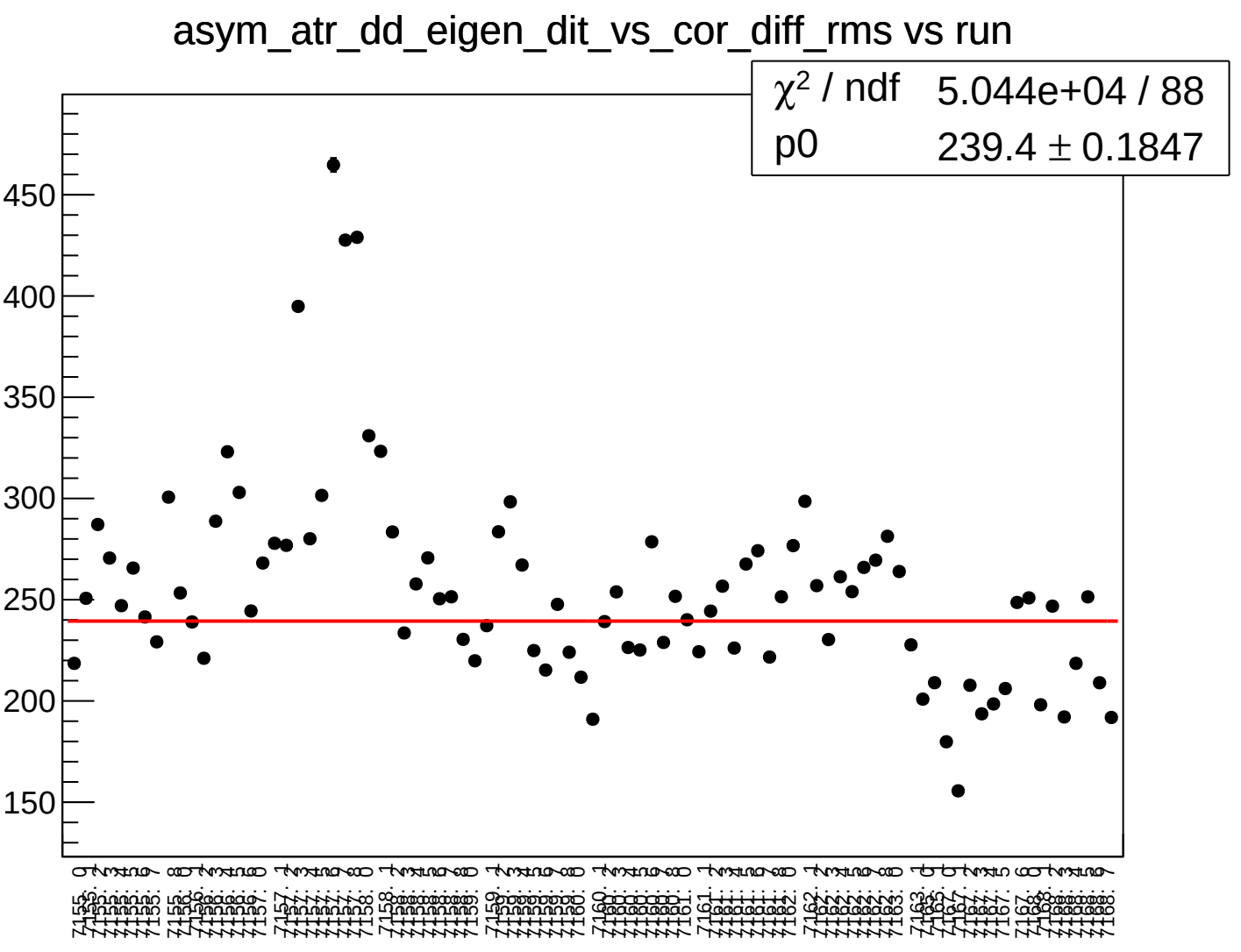

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.36 / 88
p0 8.378e−06 ± 1.335e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −13.21
Std Dev 0

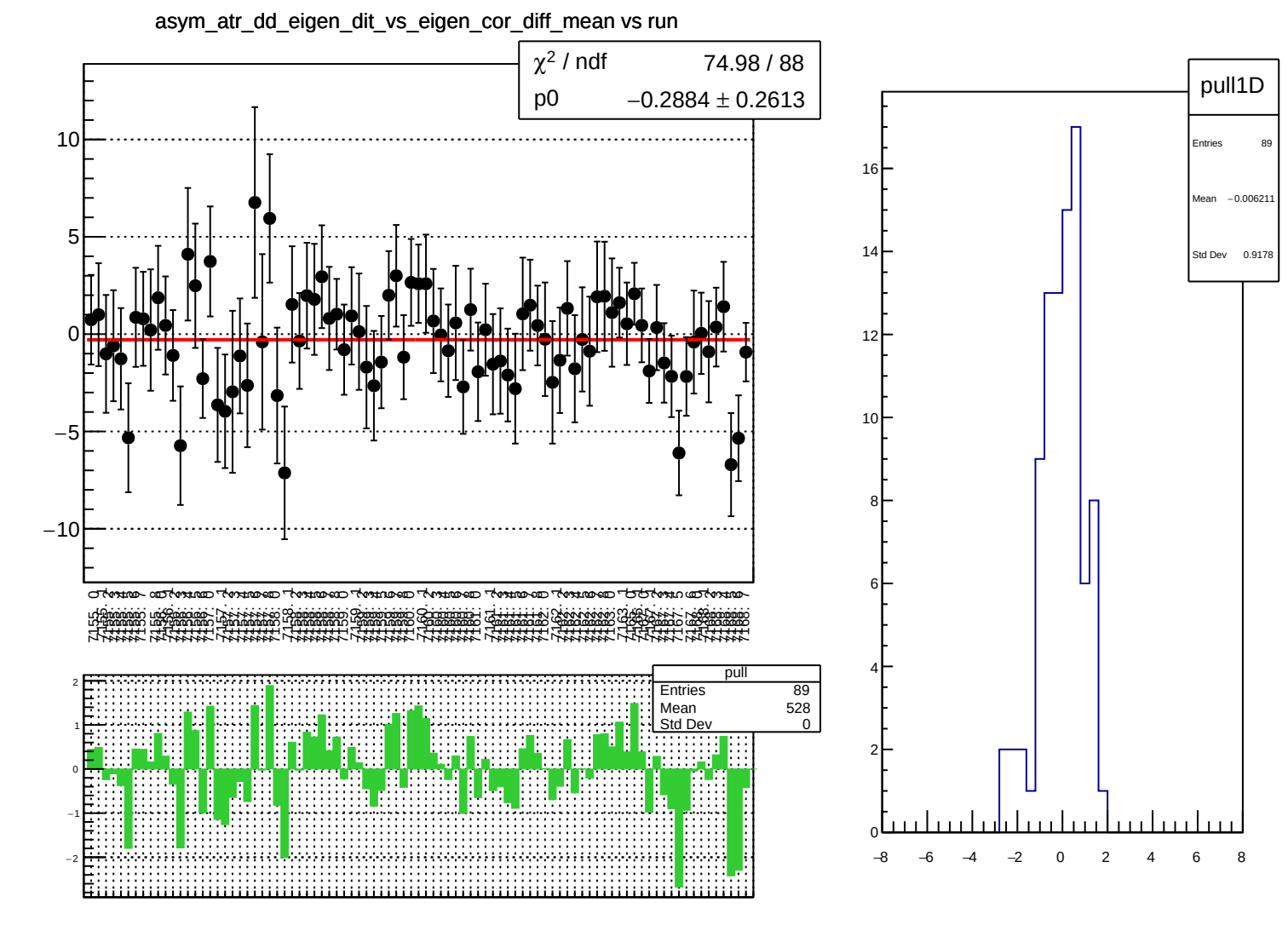

pull1D
Entries 89
Mean −0.02563
Std Dev 0.9259

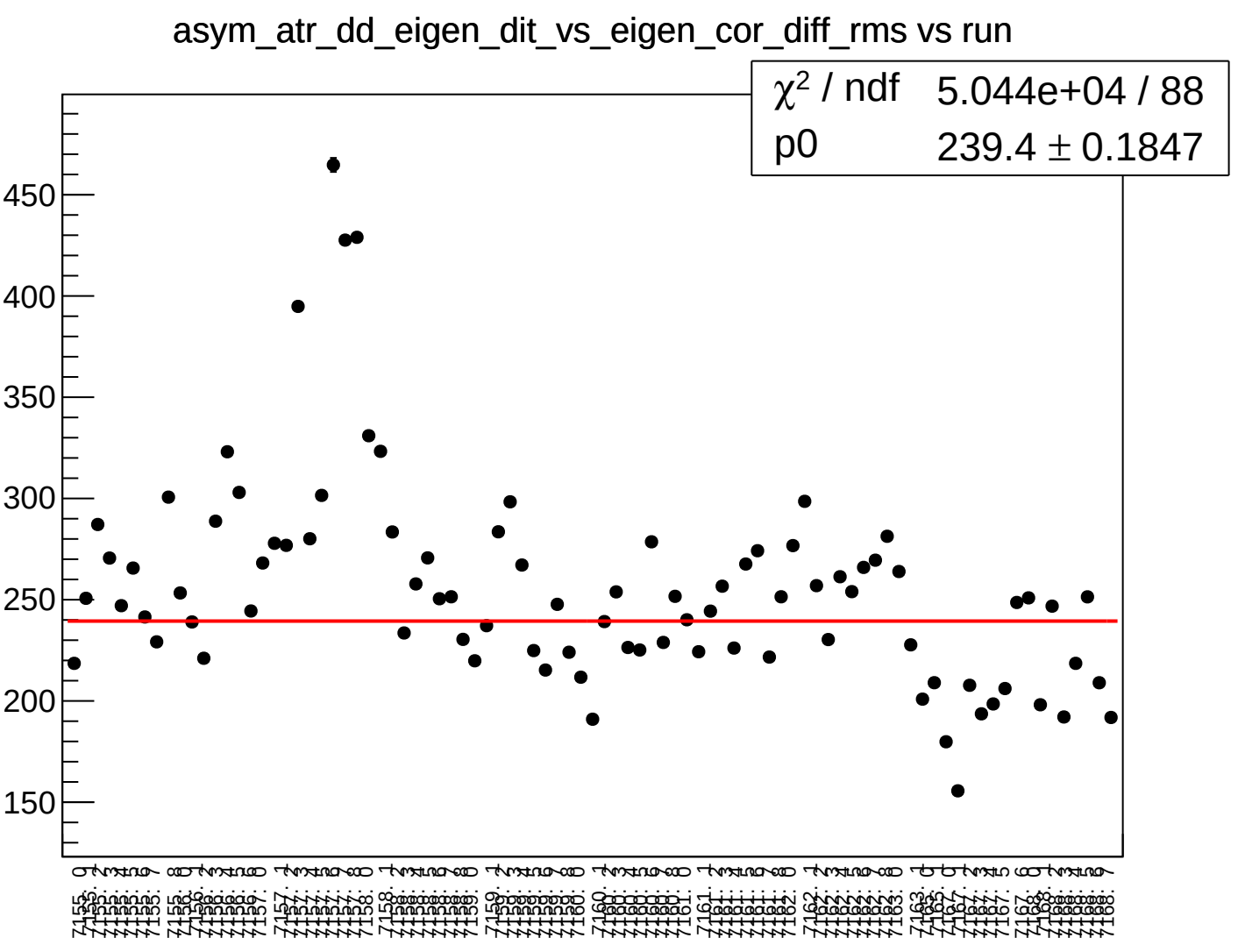

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.032e+05 / 88
p0 0.01002 ± 9.44e−06
0.03
0.025
0.02
0.015
0.01
0.005

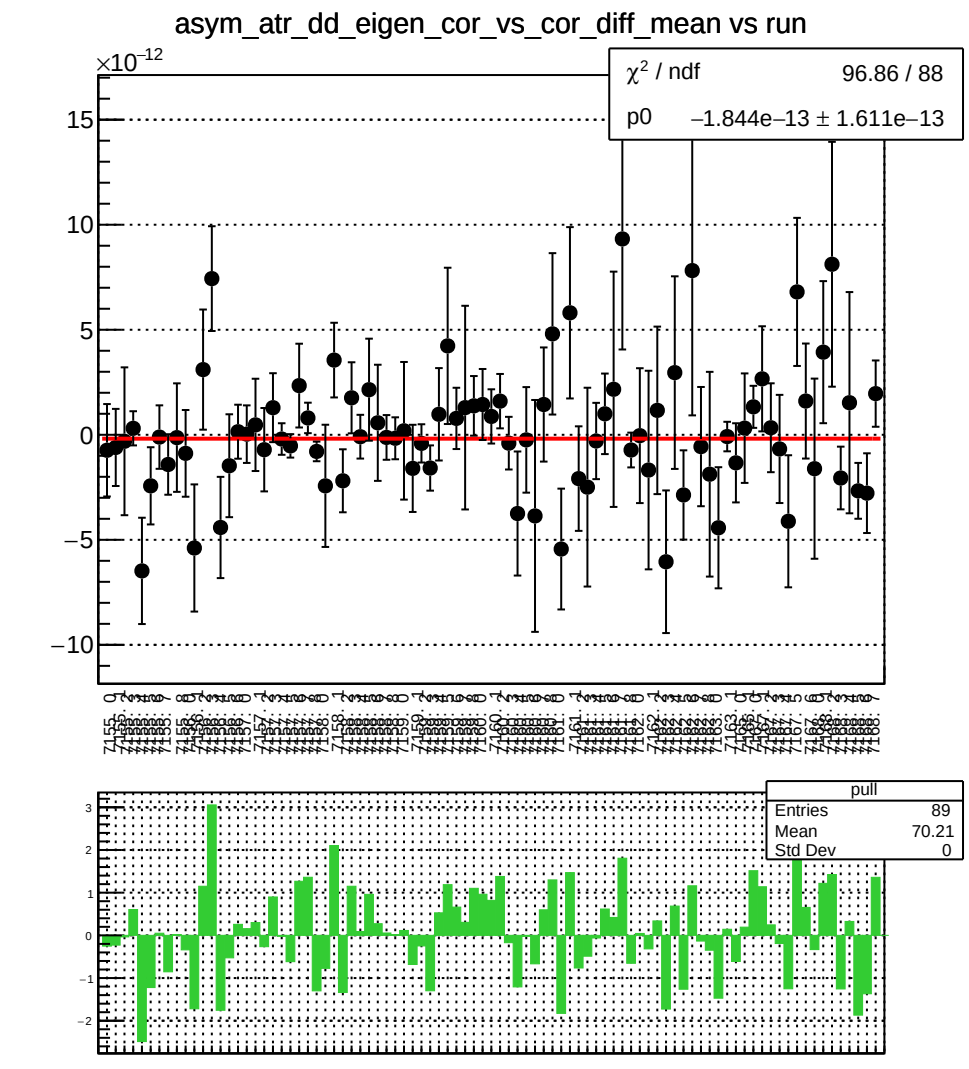

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 −0.2884 ± 0.2613
pull
Entries 89
Mean 528
Std Dev 0

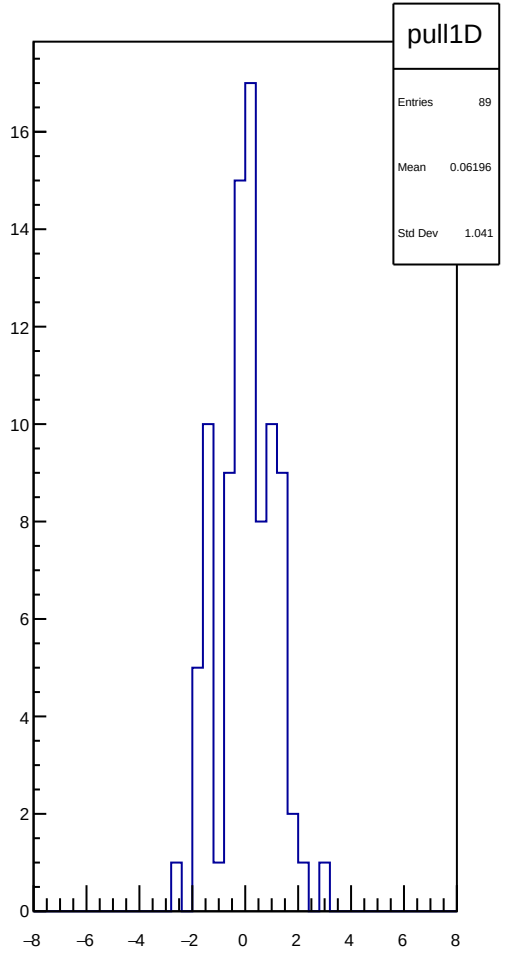

pull1D
Entries 89
Mean −0.006211
Std Dev 0.9178

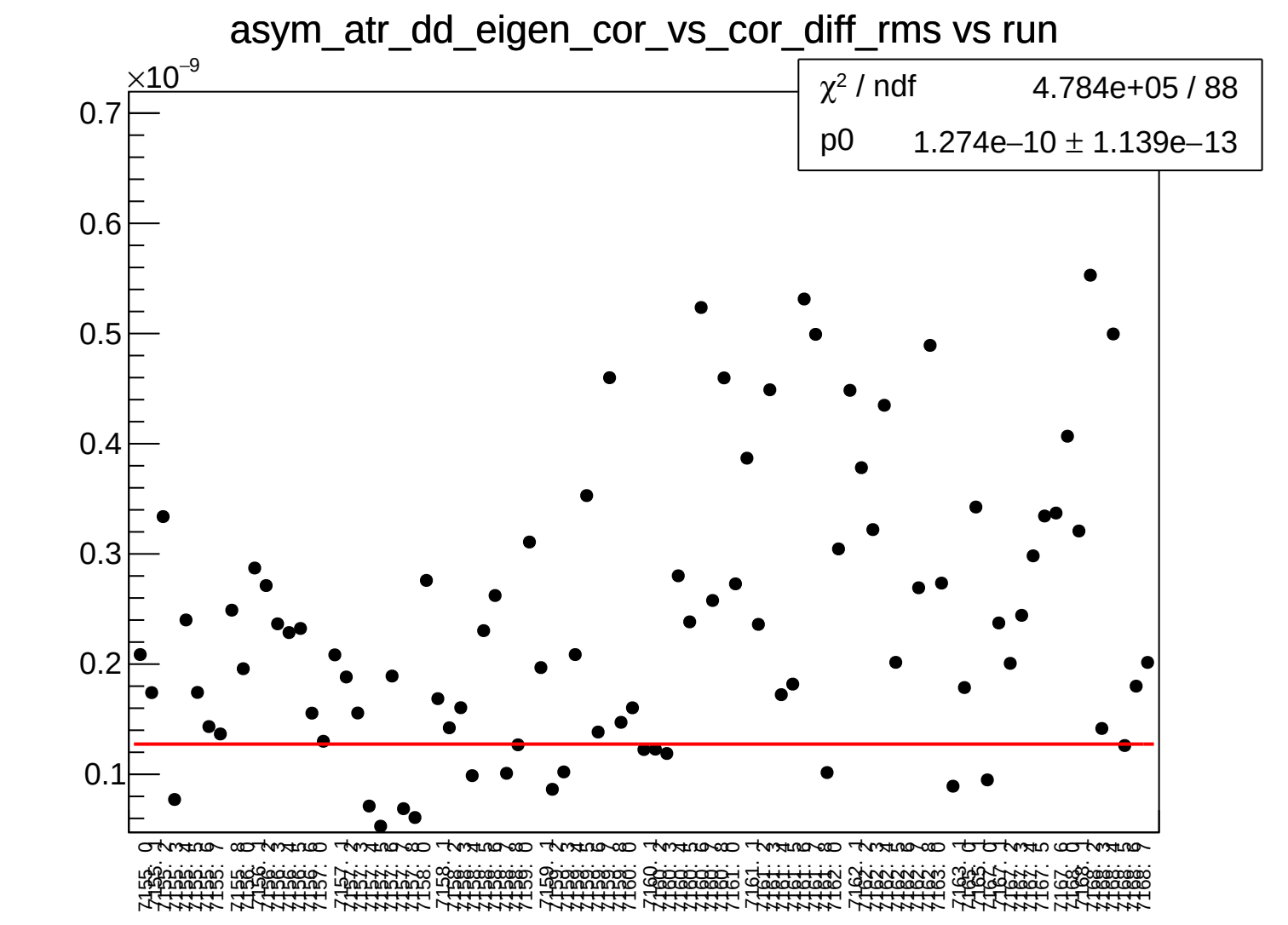

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.044e+04 / 88
p0 239.4 ± 0.1847
450
400
350
300
250
200
150

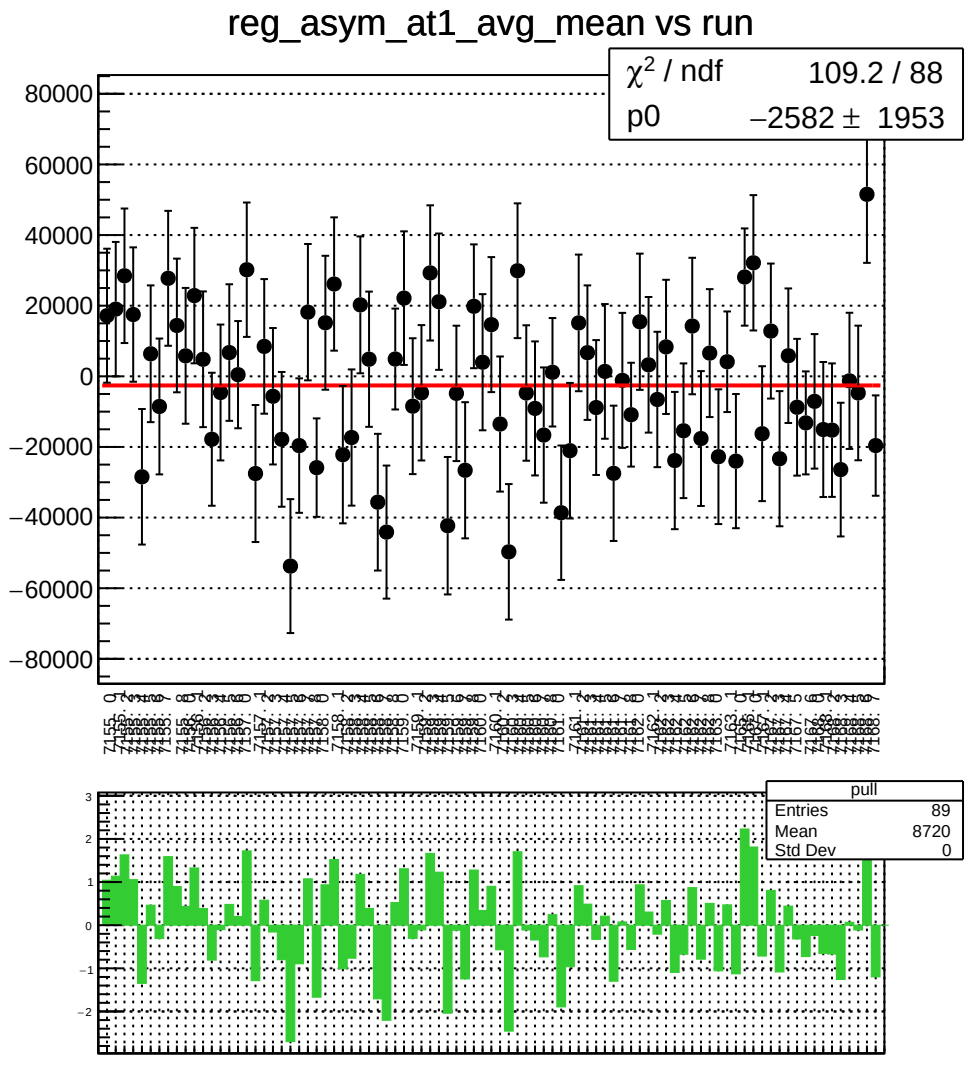

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.98 / 88
p0 −0.2884 ± 0.2613
pull
Entries 89
Mean 528
Std Dev 0
pull1D
Entries 89
Mean −0.006211
Std Dev 0.9178

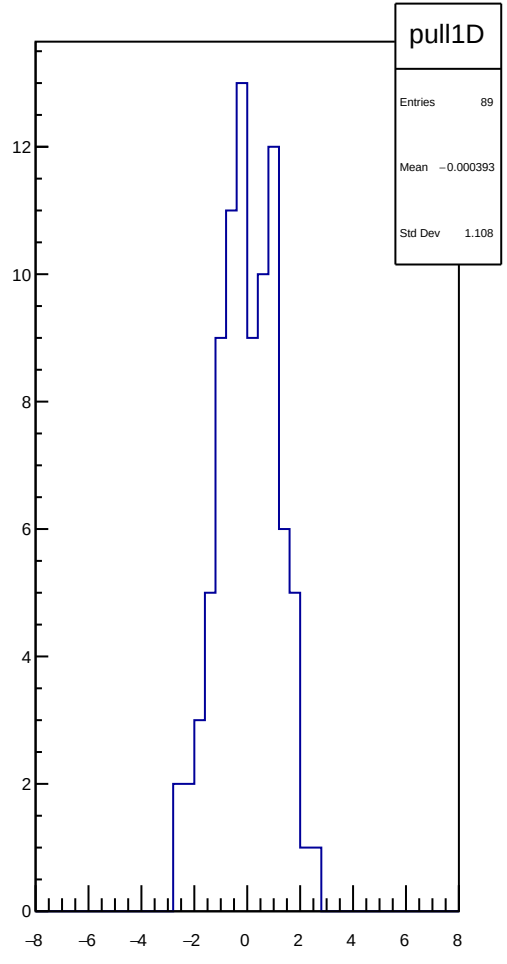

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.044e+04 / 88
p0 239.4 ± 0.1847
450
400
350
300
250
200
150

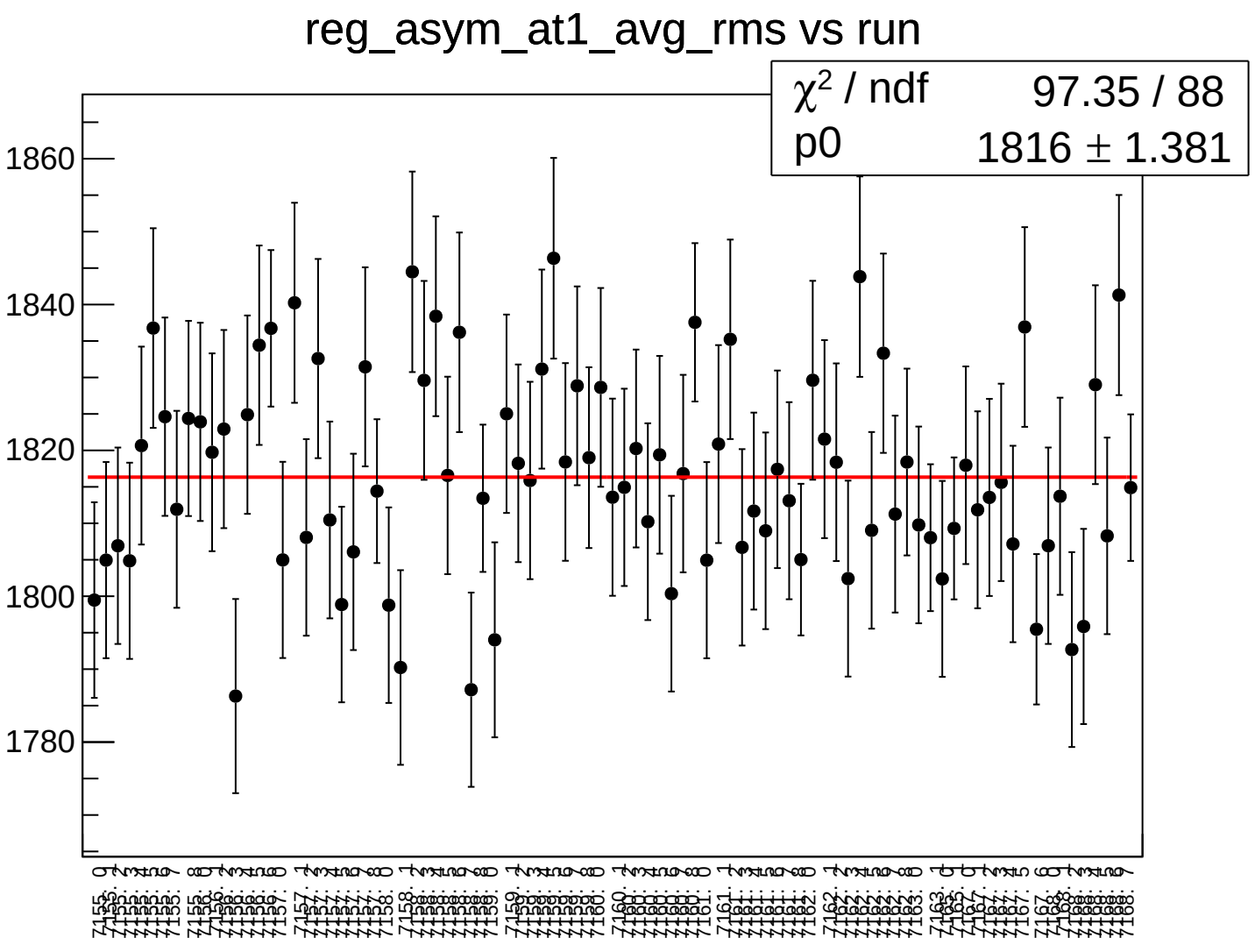

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.86 / 88
p0 −1.844e−13 ± 1.611e−13
pull
Entries 89
Mean 70.21
Std Dev 0

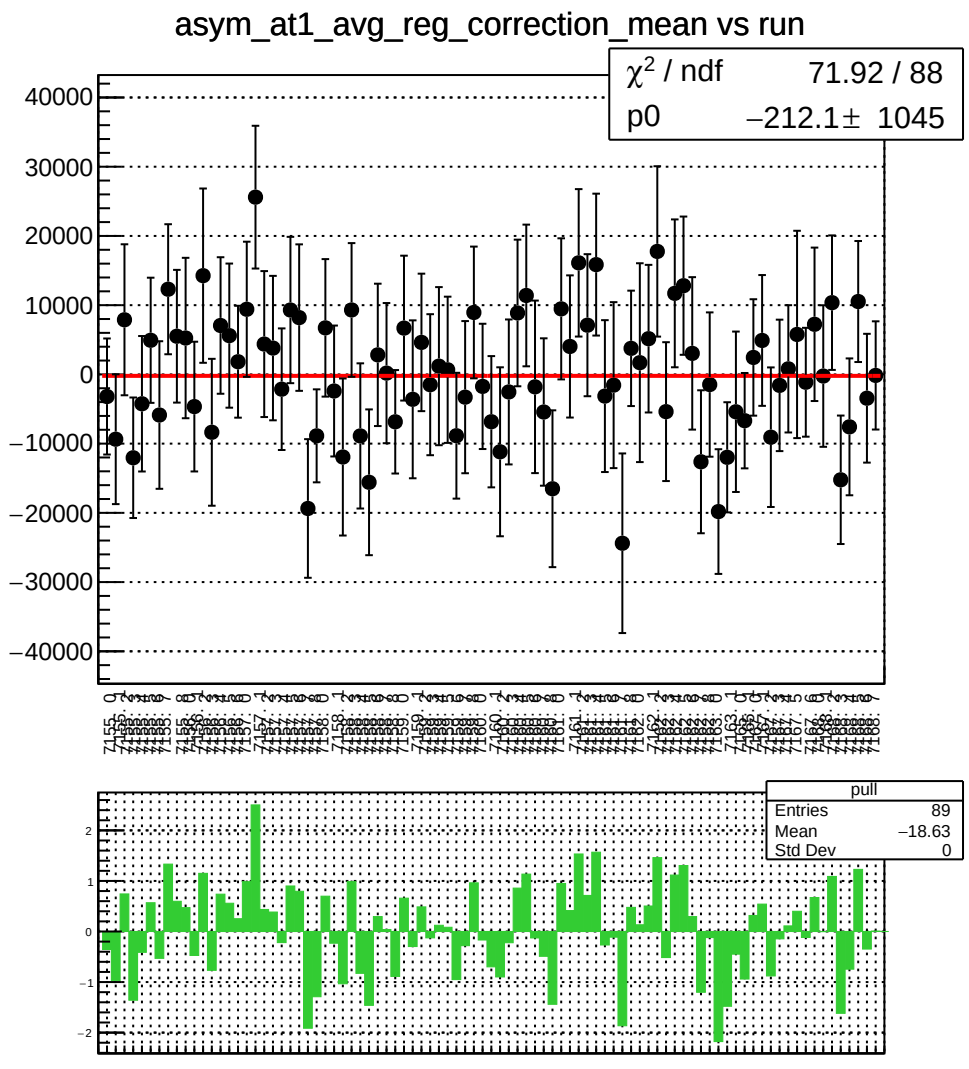

pull1D
Entries 89
Mean 0.06196
Std Dev 1.041

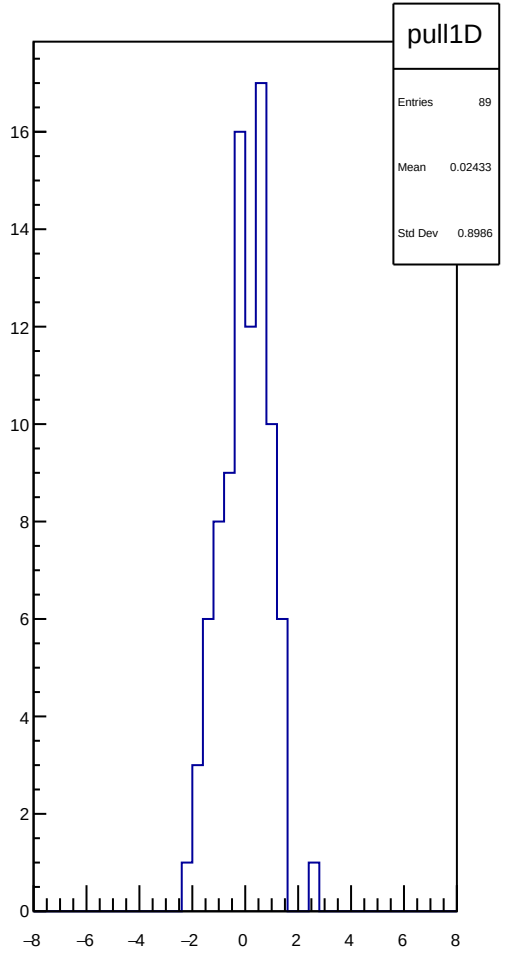

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.784e+05 / 88
p0 1.274e−10 ± 1.139e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

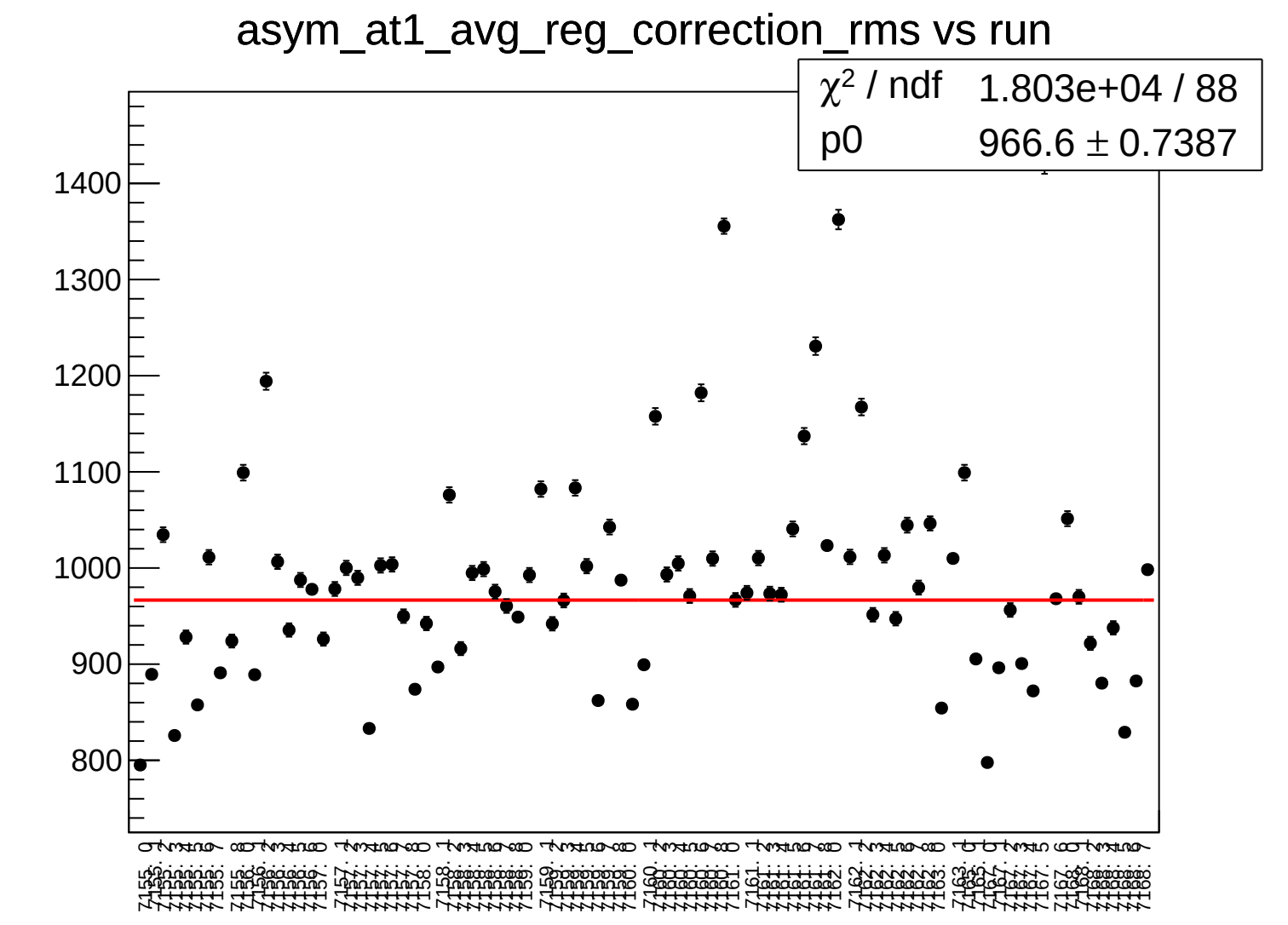

reg_asym_at1_avg_mean vs run
χ² / ndf 109.2 / 88
p0 −2582 ± 1953
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 8720
Std Dev 0
3
2
1
0
−1
−2

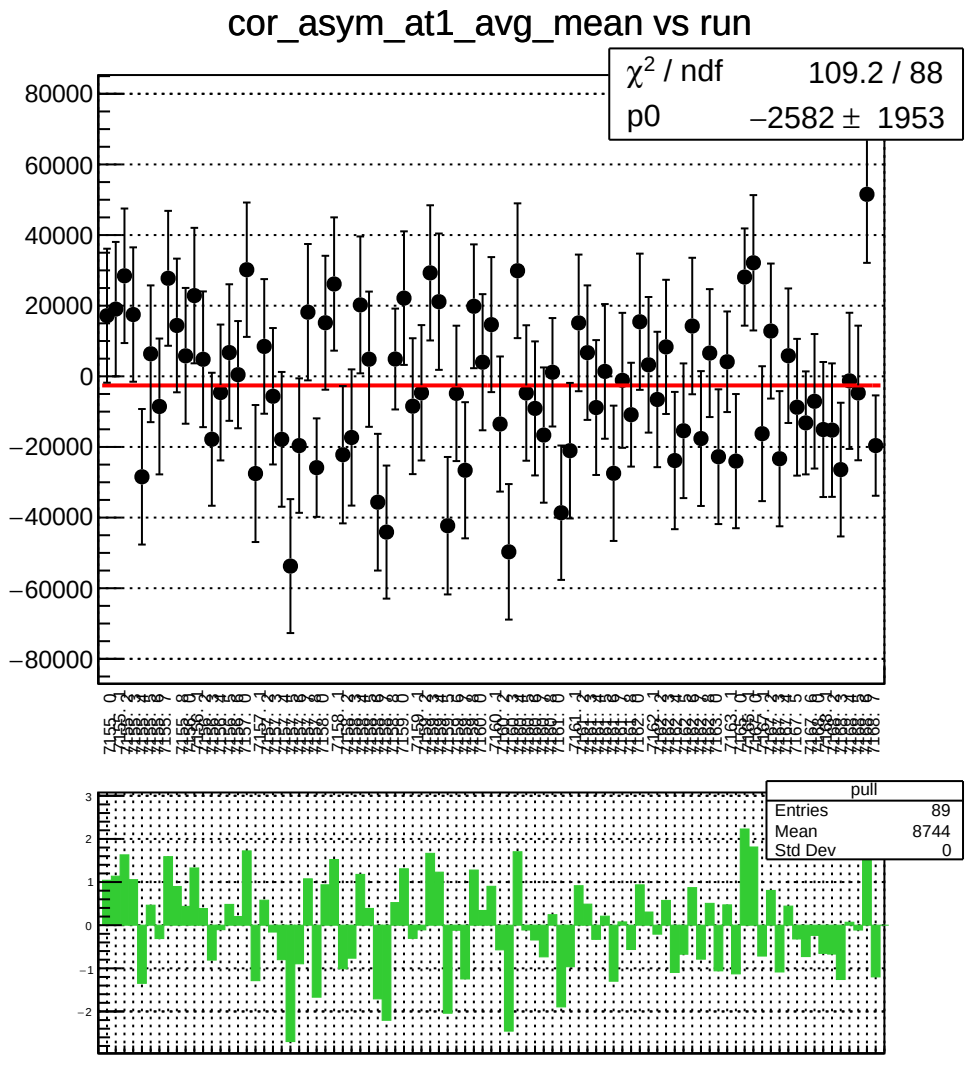

pull1D
Entries 89
Mean −0.000393
Std Dev 1.108
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

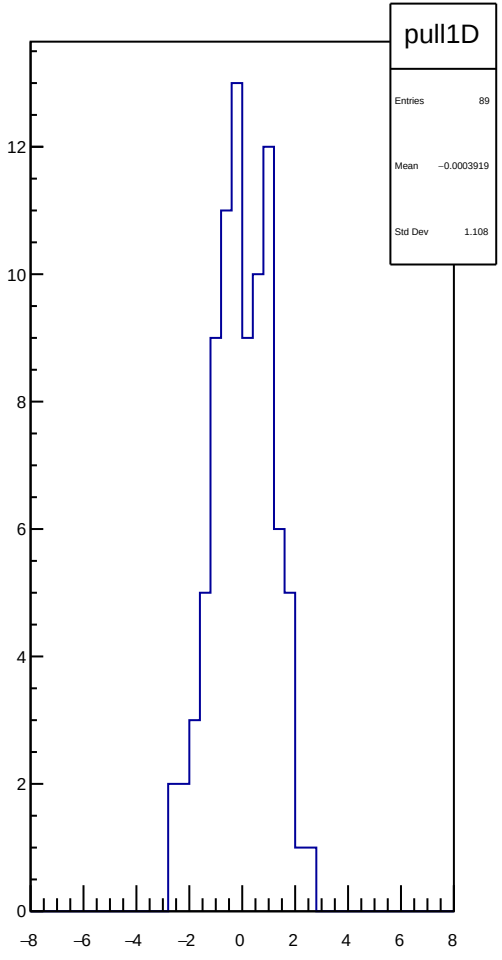

reg_asym_at1_avg_rms vs run
χ² / ndf 97.35 / 88
p0 1816 ± 1.381
1860
1840
1820
1800
1780

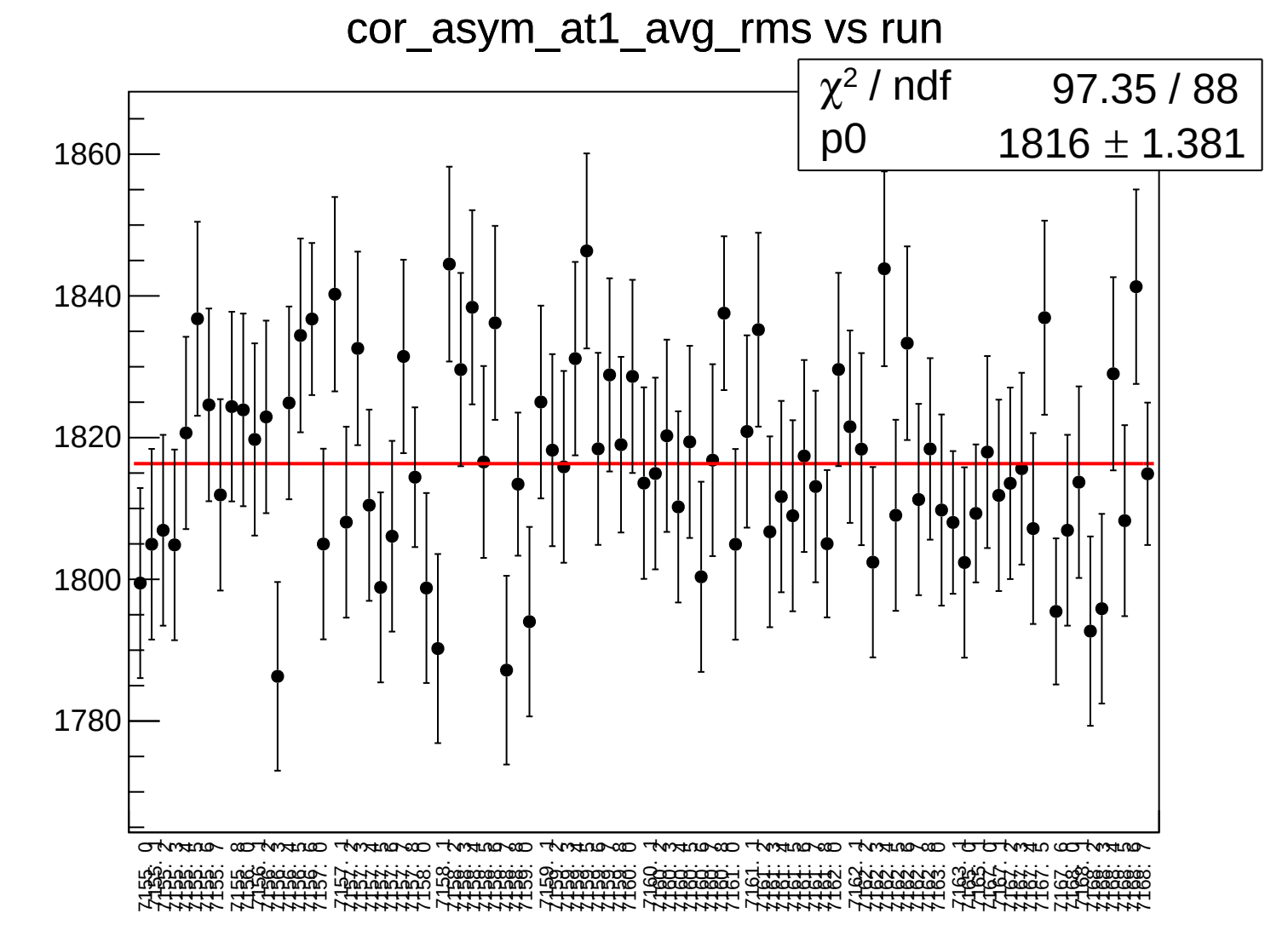

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 71.92 / 88
p0 −212.1± 1045
pull
Entries 89
Mean −18.63
Std Dev 0

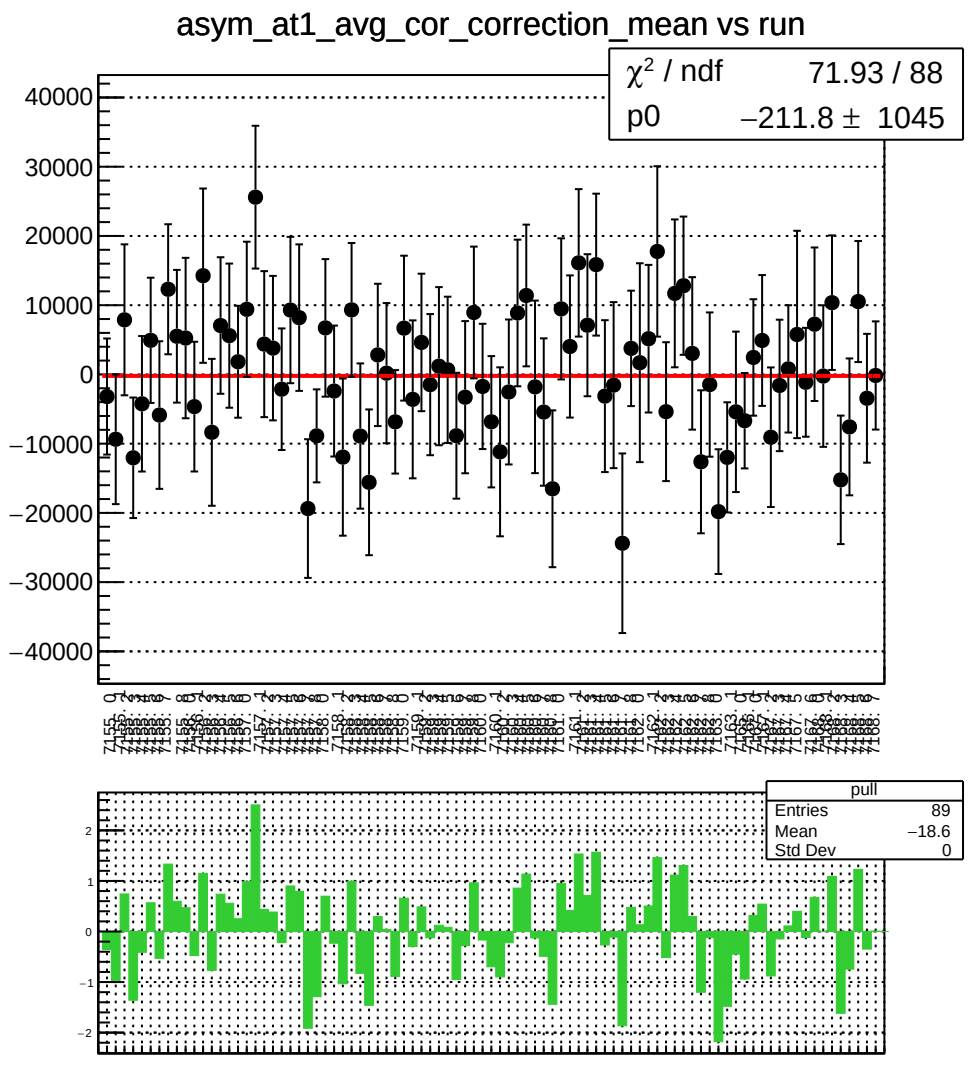

pull1D
Entries 89
Mean 0.02433
Std Dev 0.8986

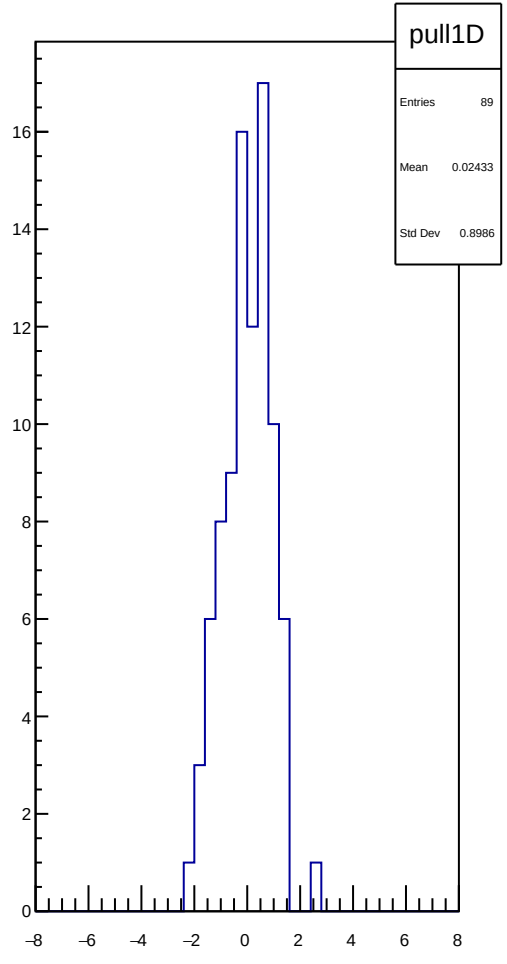

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 1.803e+04 / 88
p0 966.6 ± 0.7387
1400
1300
1200
1100
1000
900
800

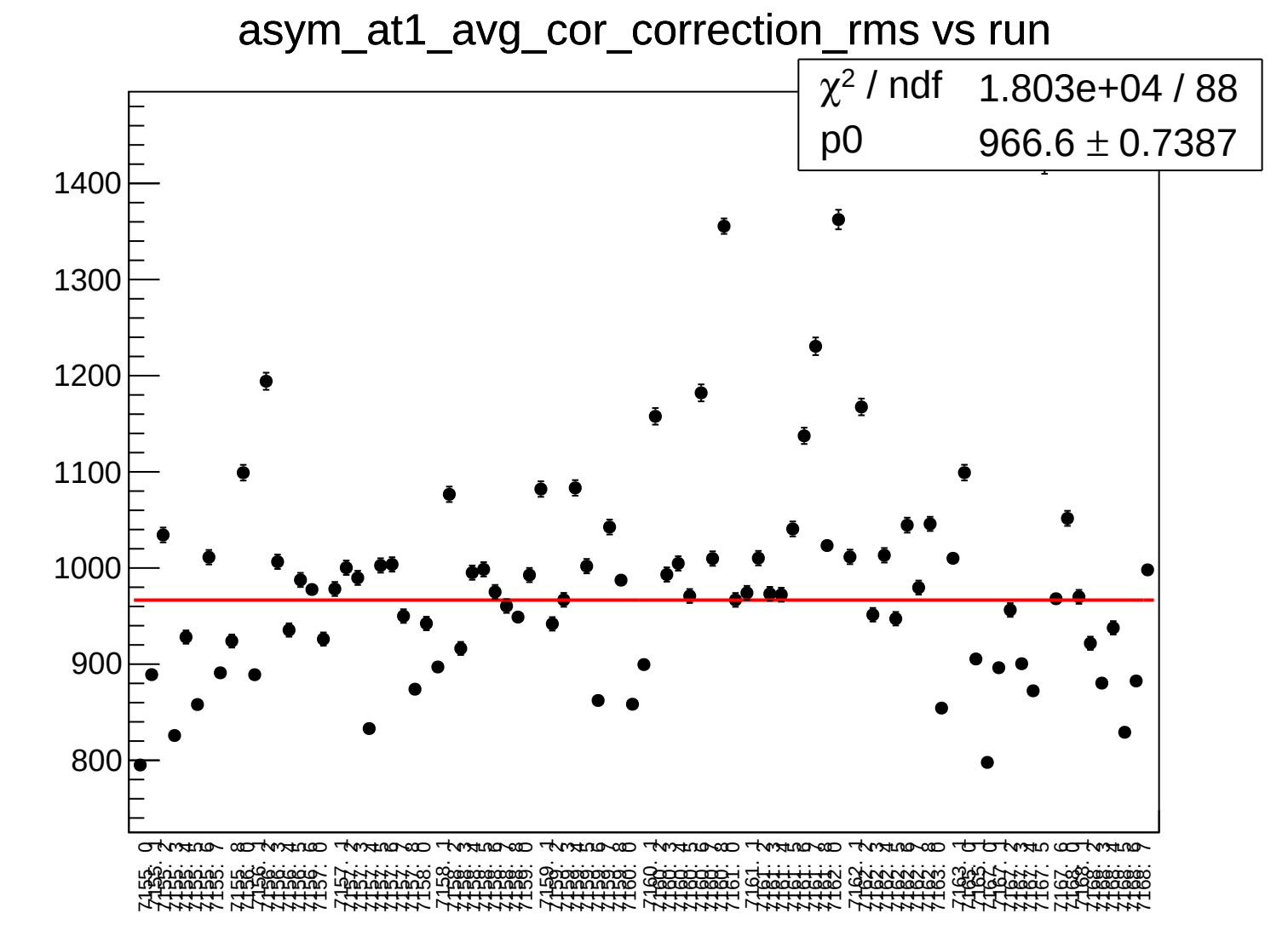

cor_asym_at1_avg_mean vs run
χ² / ndf 109.2 / 88
p0 −2582 ± 1953
pull
Entries 89
Mean 8744
Std Dev 0

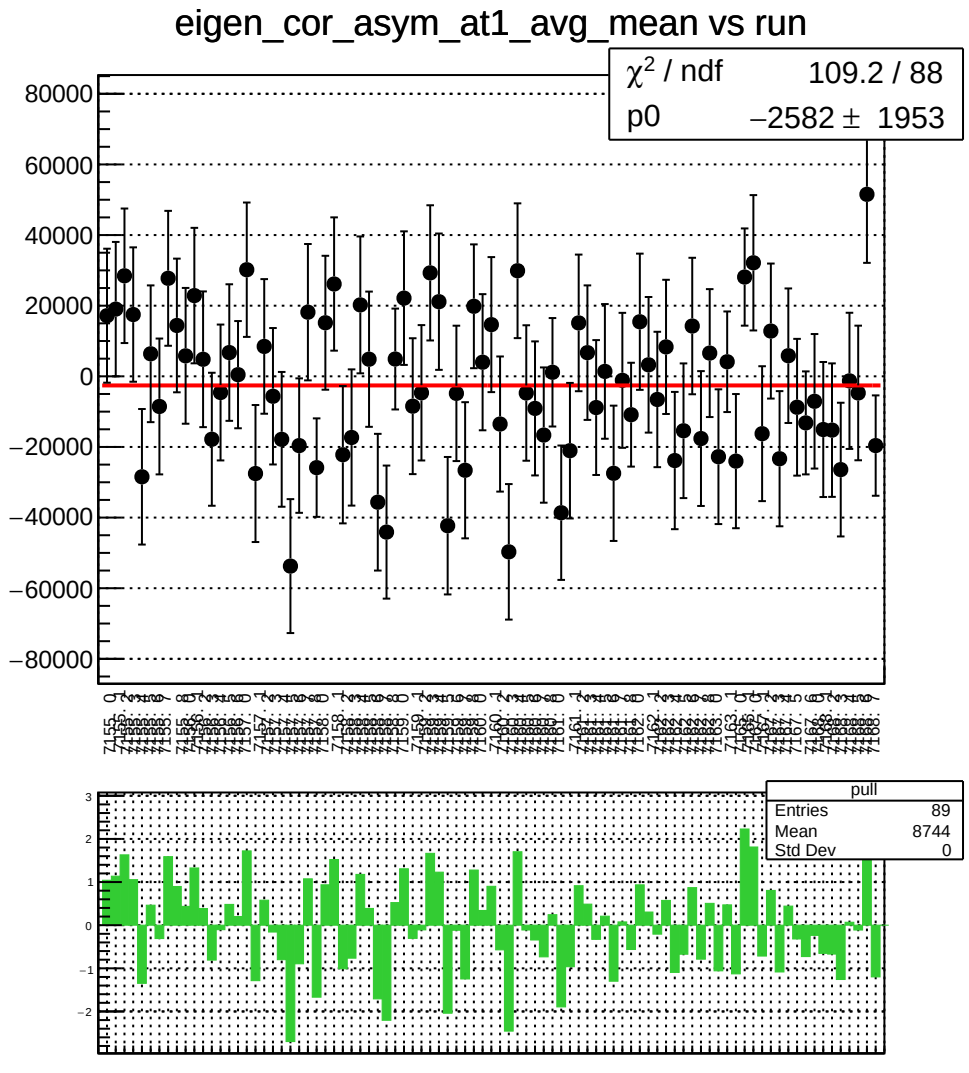

pull1D
Entries 89
Mean −0.0003919
Std Dev 1.108

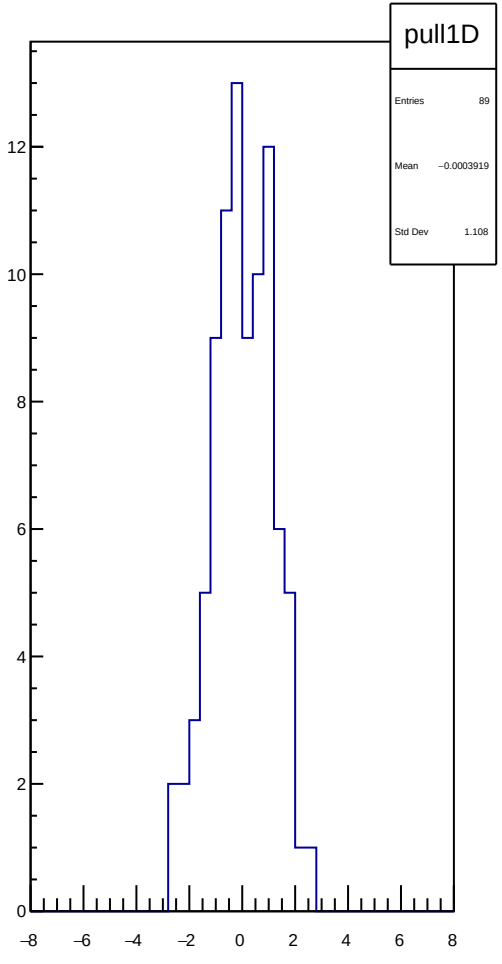

cor_asym_at1_avg_rms vs run
χ² / ndf 97.35 / 88
p0 1816 ± 1.381
1860
1840
1820
1800
1780

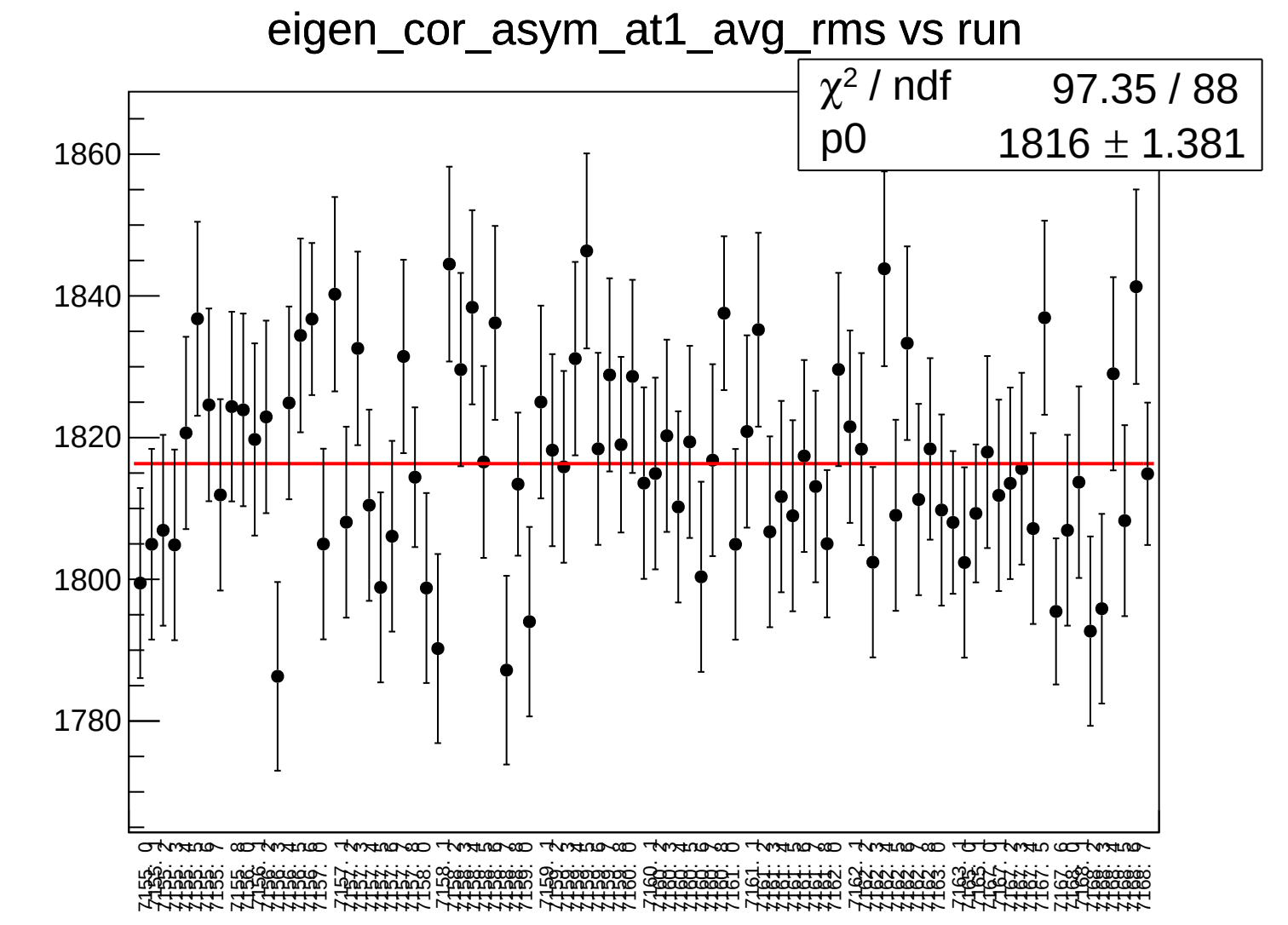

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 71.93 / 88
p0 −211.8 ± 1045
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −18.6
Std Dev 0
2
1
0
−1
−2

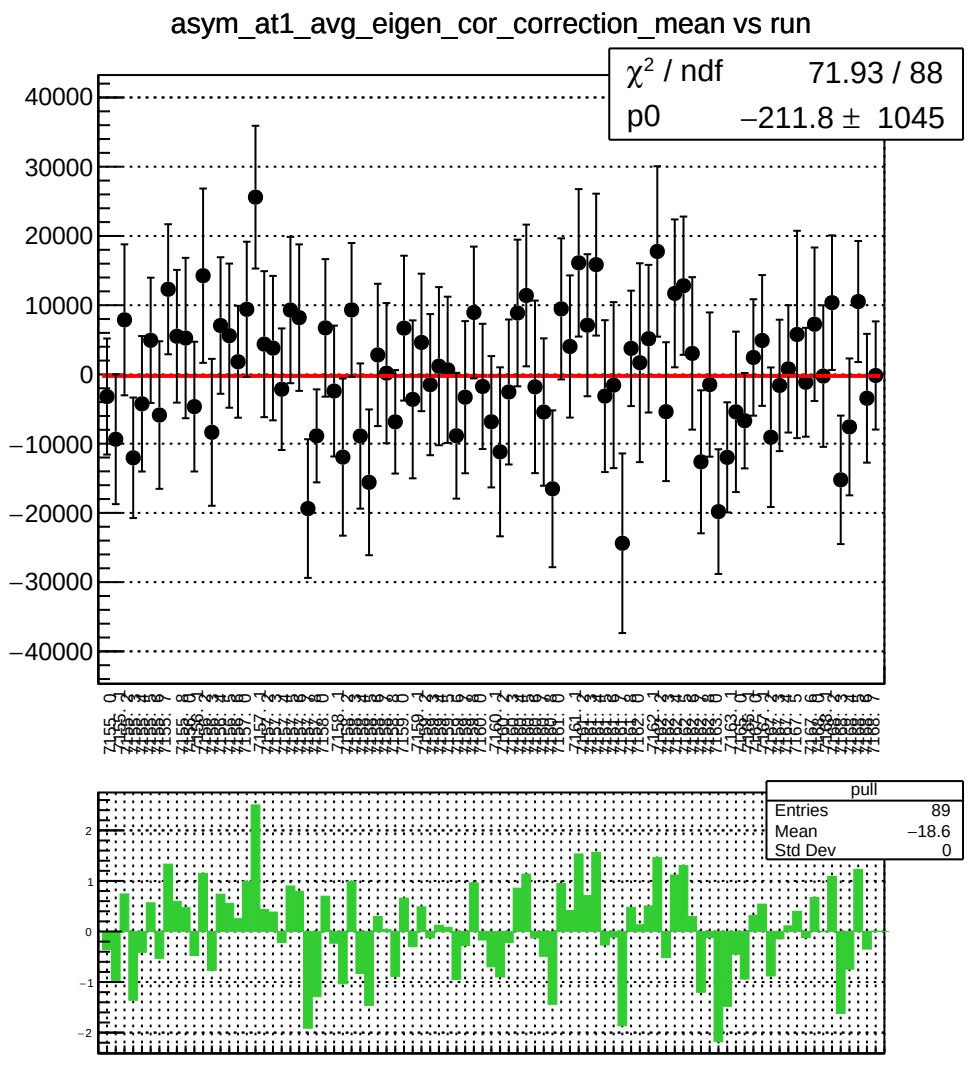

pull1D
Entries 89
Mean 0.02433
Std Dev 0.8986
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

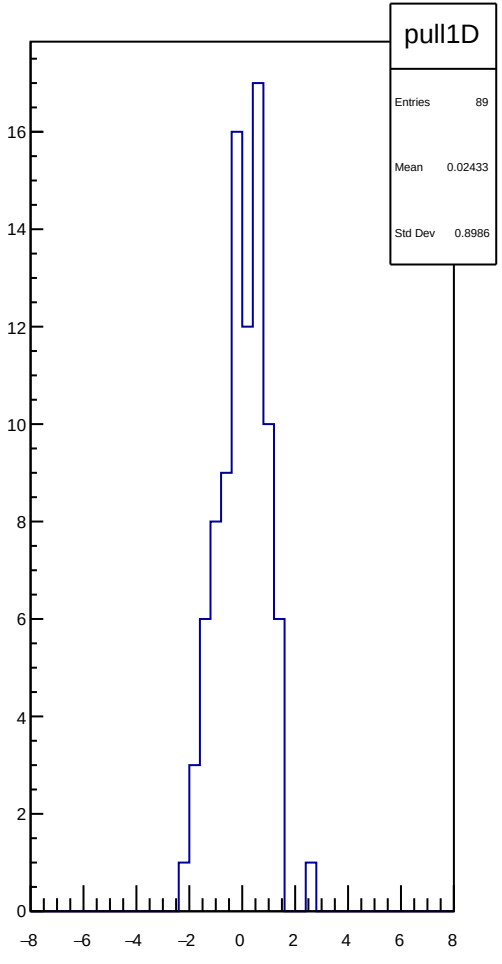

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 1.803e+04 / 88
p0 966.6 ± 0.7387
1400
1300
1200
1100
1000
900
800

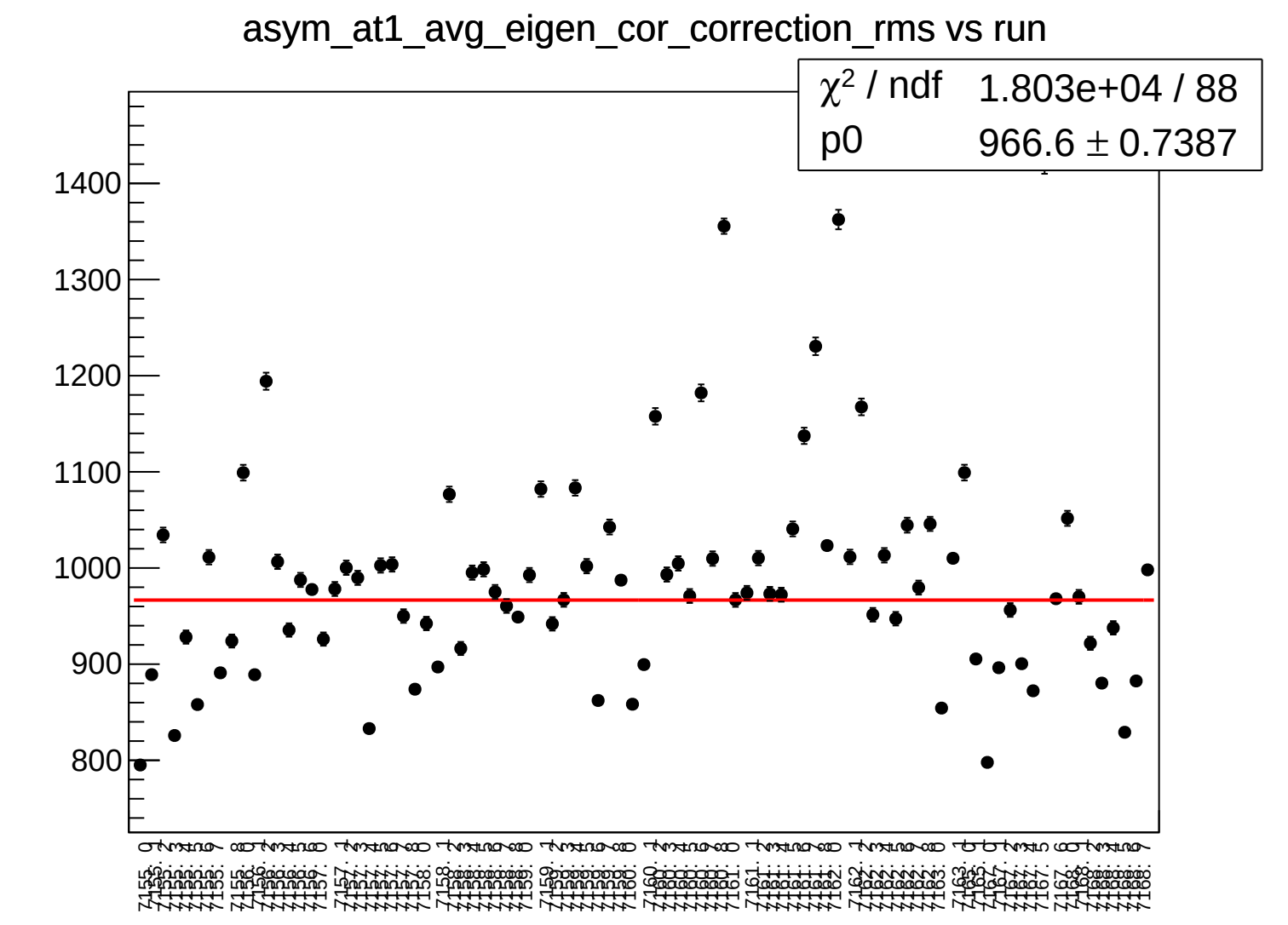

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 109.2 / 88
p0 −2582 ± 1953
pull
Entries 89
Mean 8744
Std Dev 0

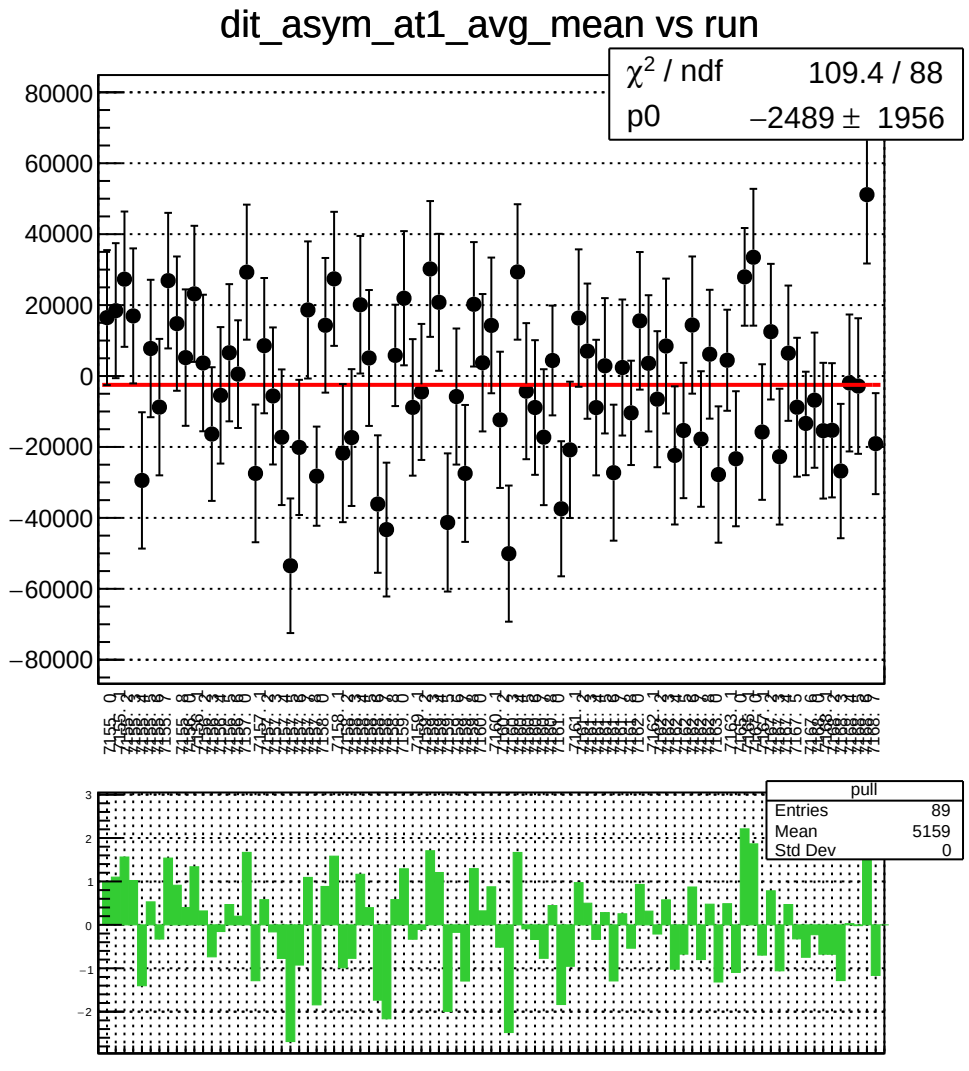

pull1D
Entries 89
Mean −0.0003919
Std Dev 1.108

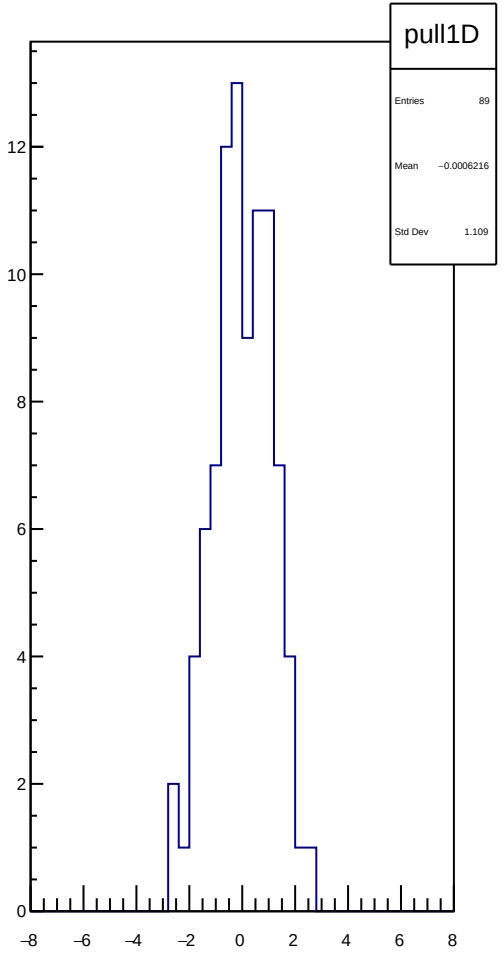

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 97.35 / 88
p0 1816 ± 1.381
1860
1840
1820
1800
1780

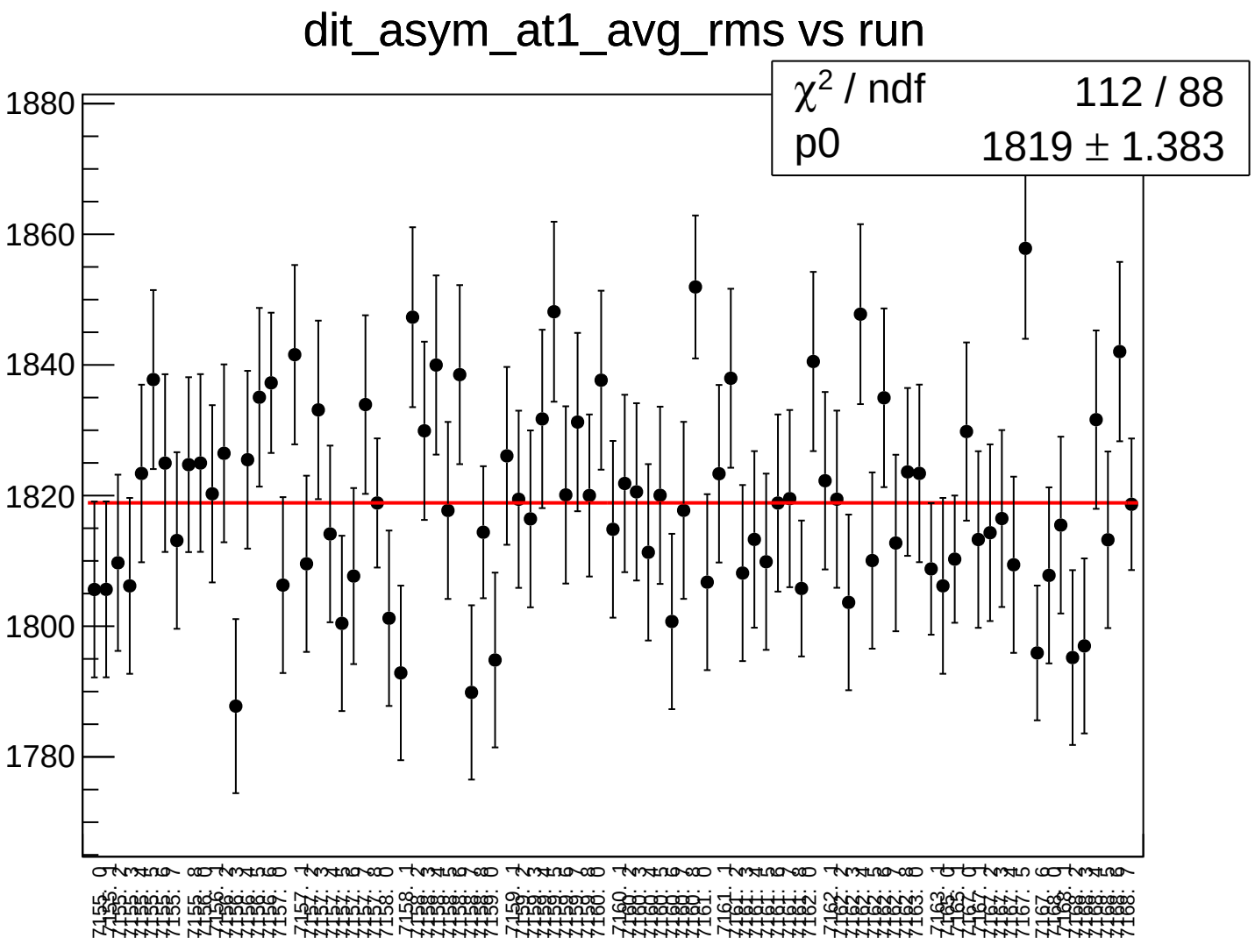

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 71.93 / 88
p0 −211.8 ± 1045
pull
Entries 89
Mean −18.6
Std Dev 0

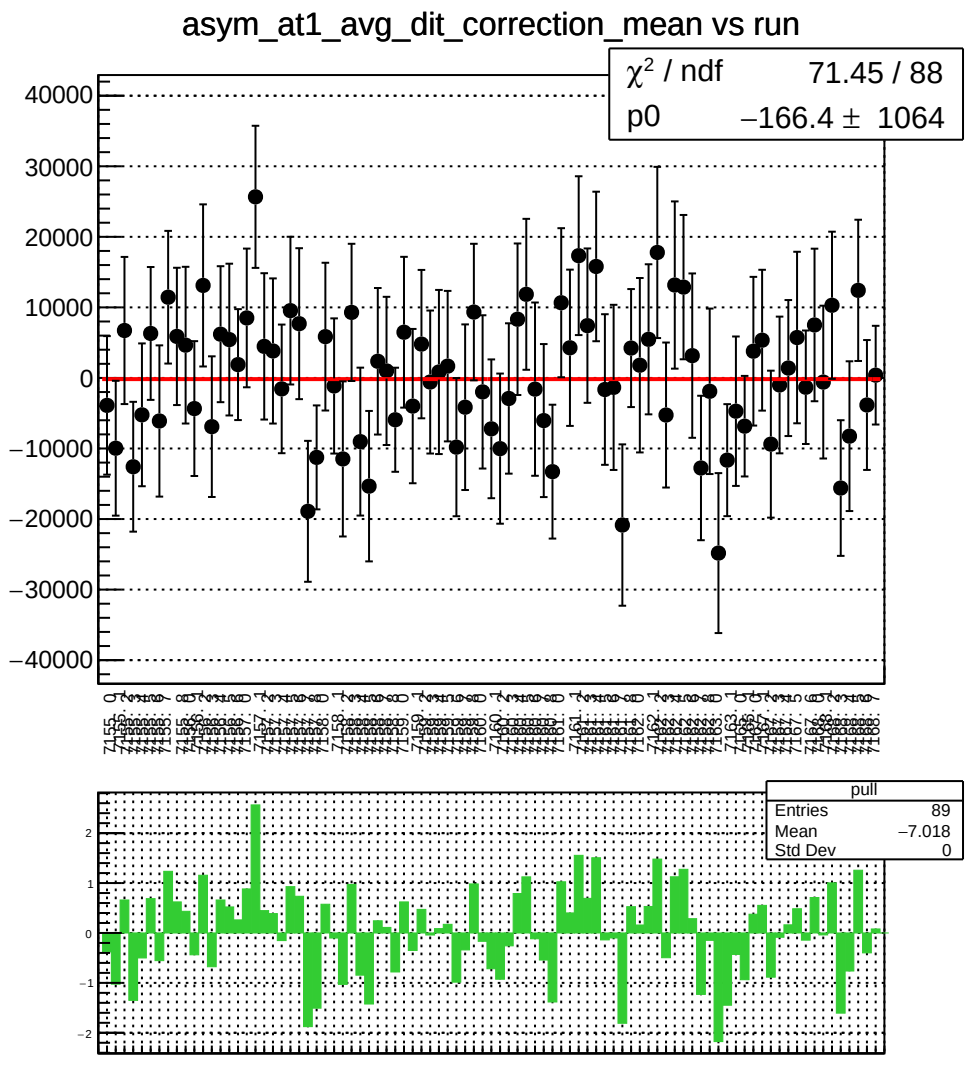

pull1D
Entries 89
Mean 0.02433
Std Dev 0.8986

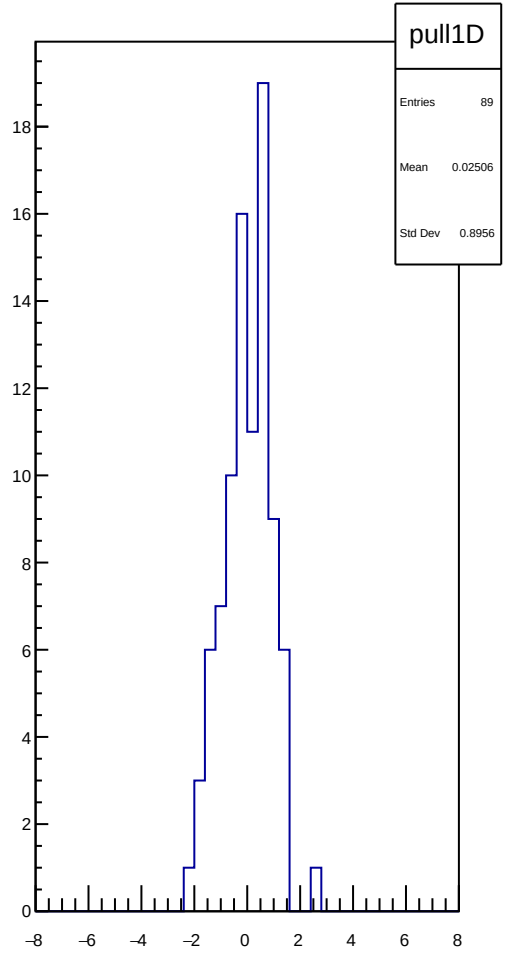

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.803e+04 / 88
p0 966.6 ± 0.7387
1400
1300
1200
1100
1000
900
800

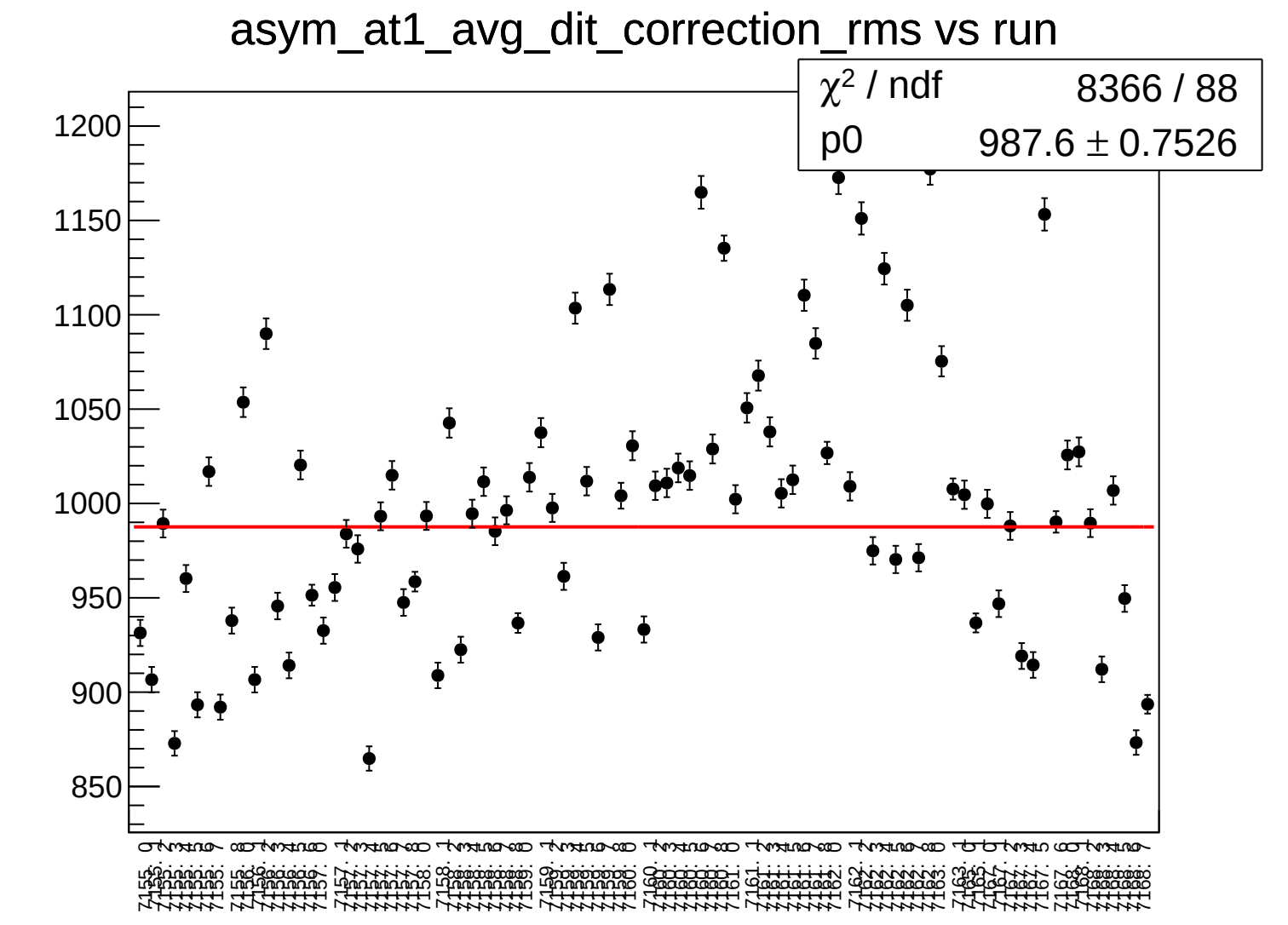

dit_asym_at1_avg_mean vs run
χ² / ndf 109.4 / 88
p0 −2489 ± 1956
pull
Entries 89
Mean 5159
Std Dev 0

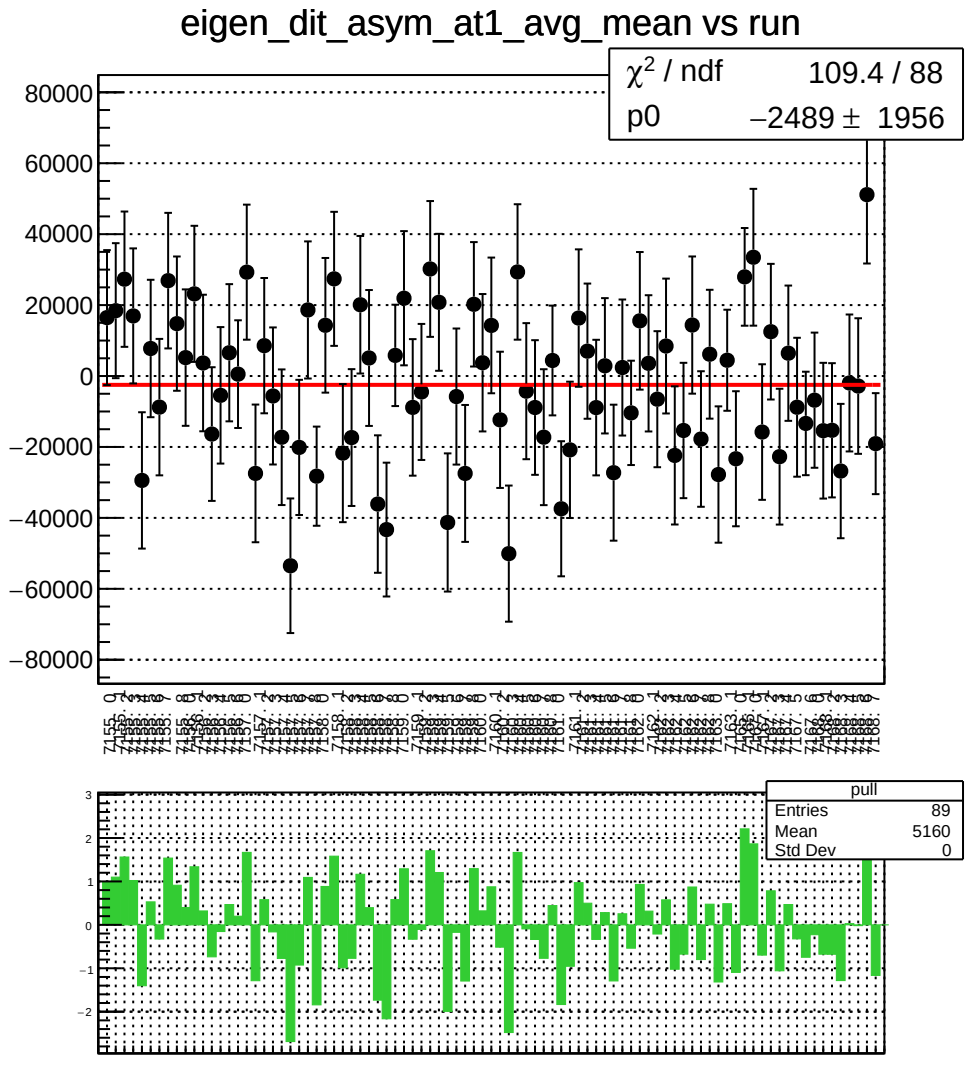

pull1D
Entries 89
Mean −0.0006216
Std Dev 1.109

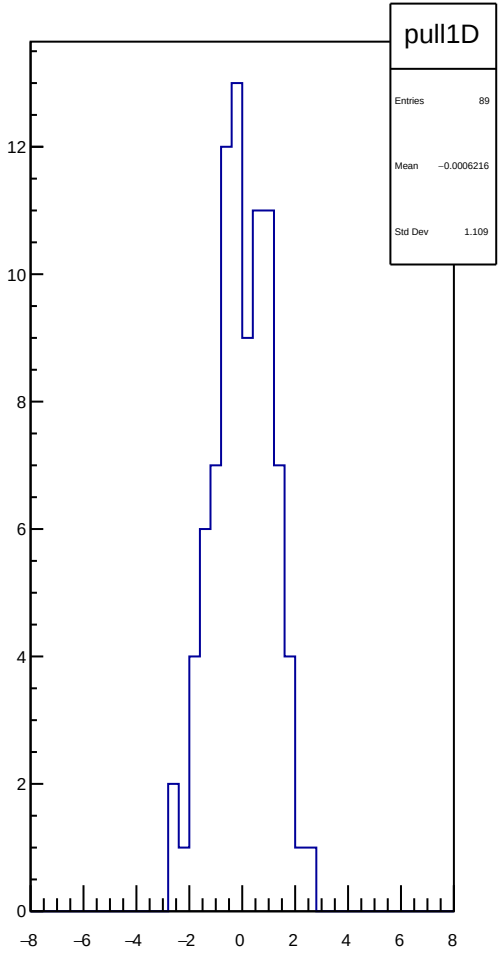

dit_asym_at1_avg_rms vs run
χ² / ndf 112 / 88
p0 1819 ± 1.383
1880
1860
1840
1820
1800
1780

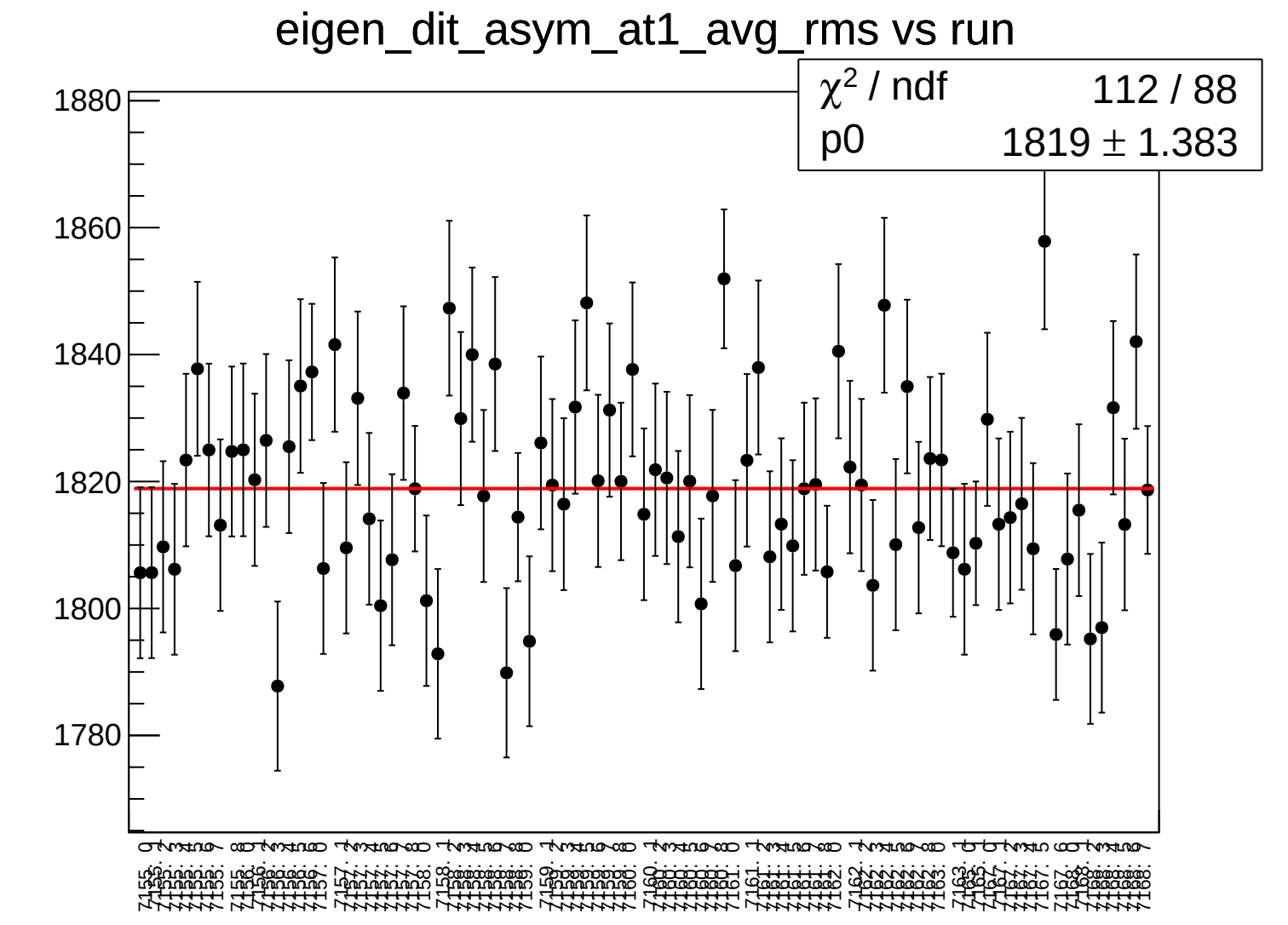

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 71.45 / 88
p0 −166.4 ± 1064
pull
Entries 89
Mean −7.018
Std Dev 0

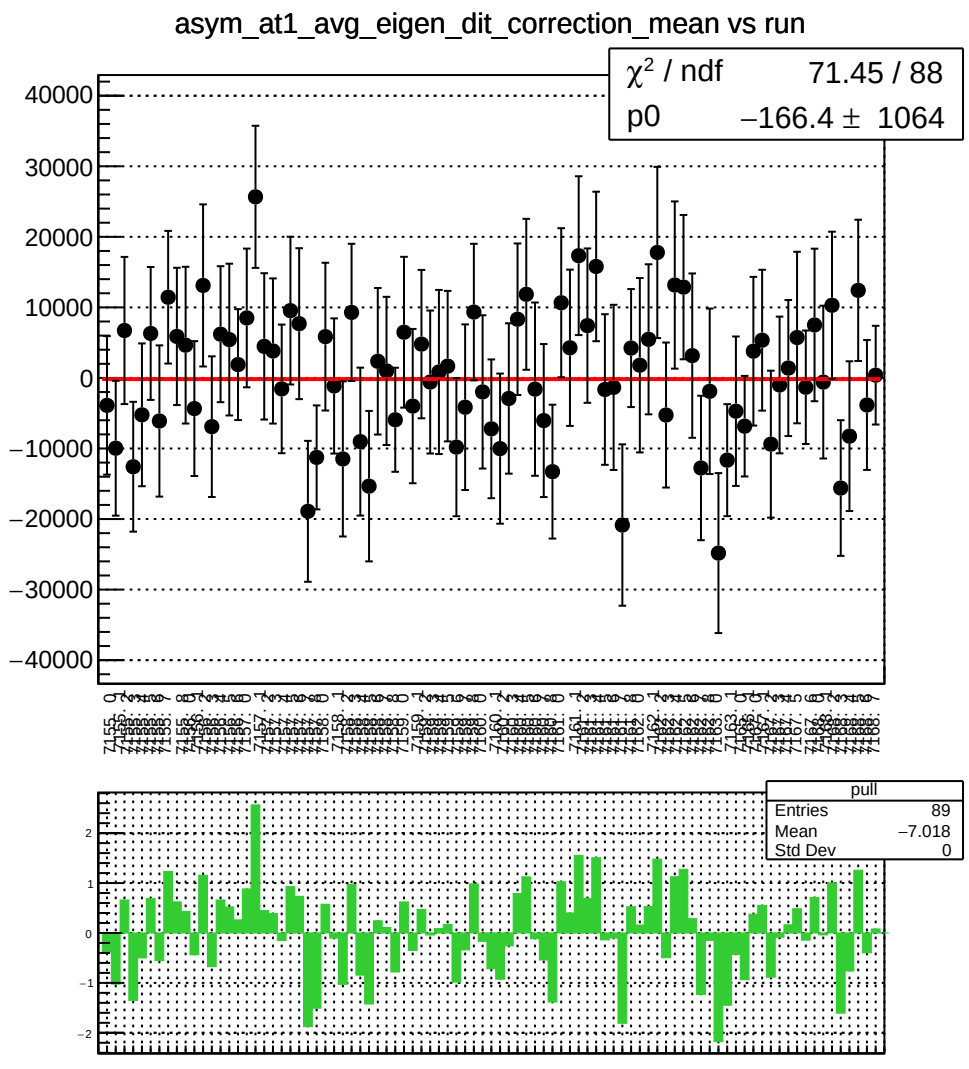

pull1D
Entries 89
Mean 0.02506
Std Dev 0.8956

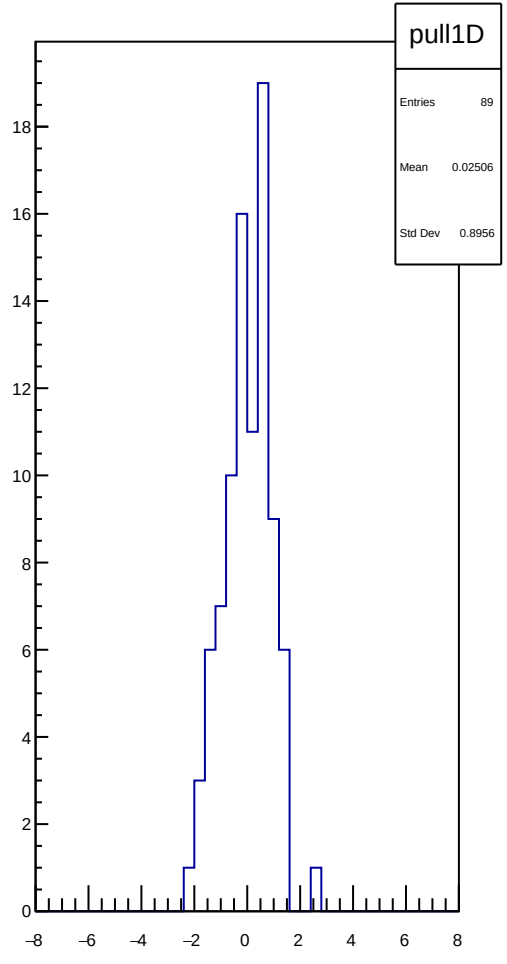

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 8366 / 88
p0 987.6 ± 0.7526
1200
1150
1100
1050
1000
950
900
850

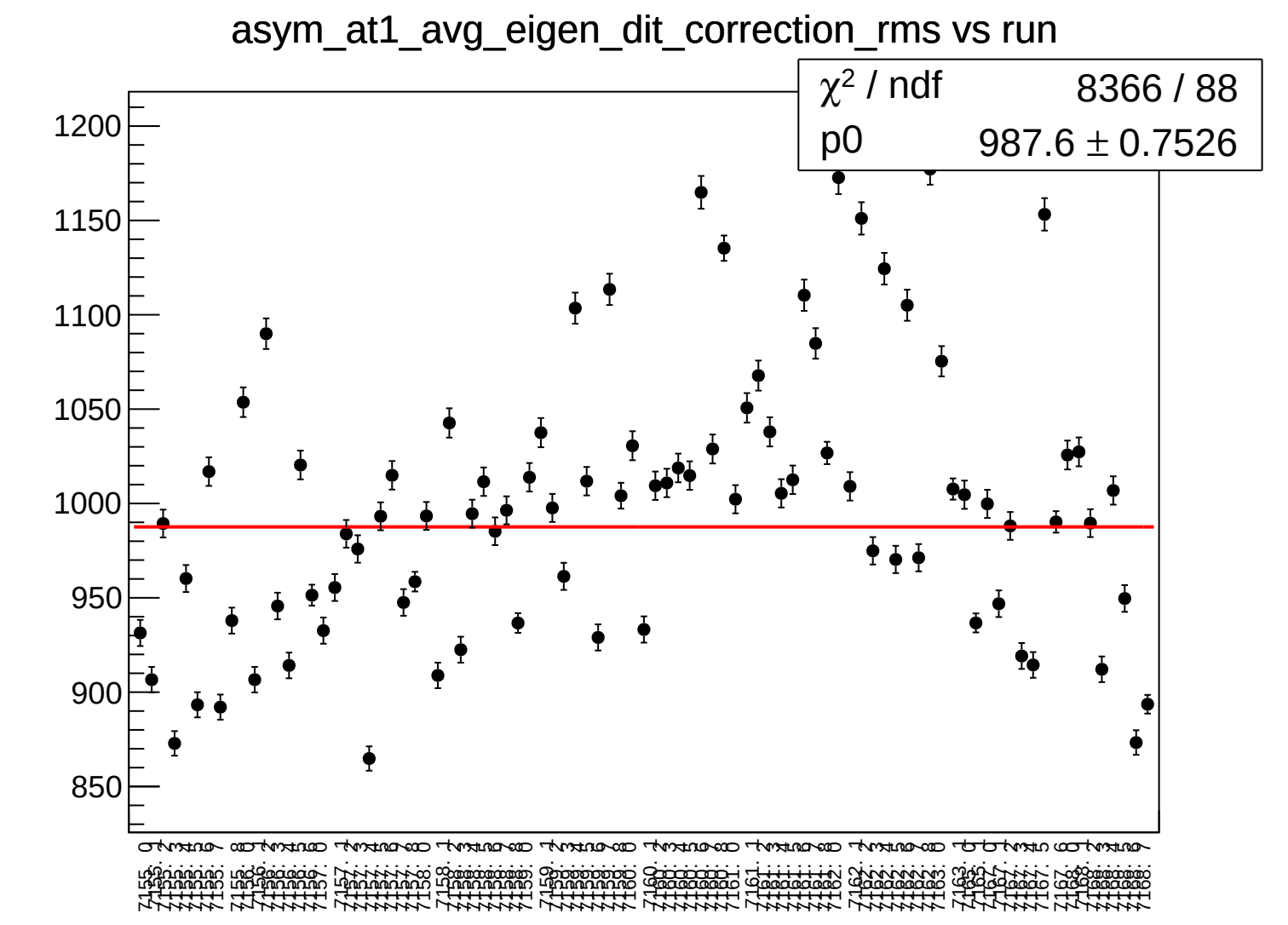

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 109.4 / 88
p0 −2489 ± 1956
pull
Entries 89
Mean 5160
Std Dev 0

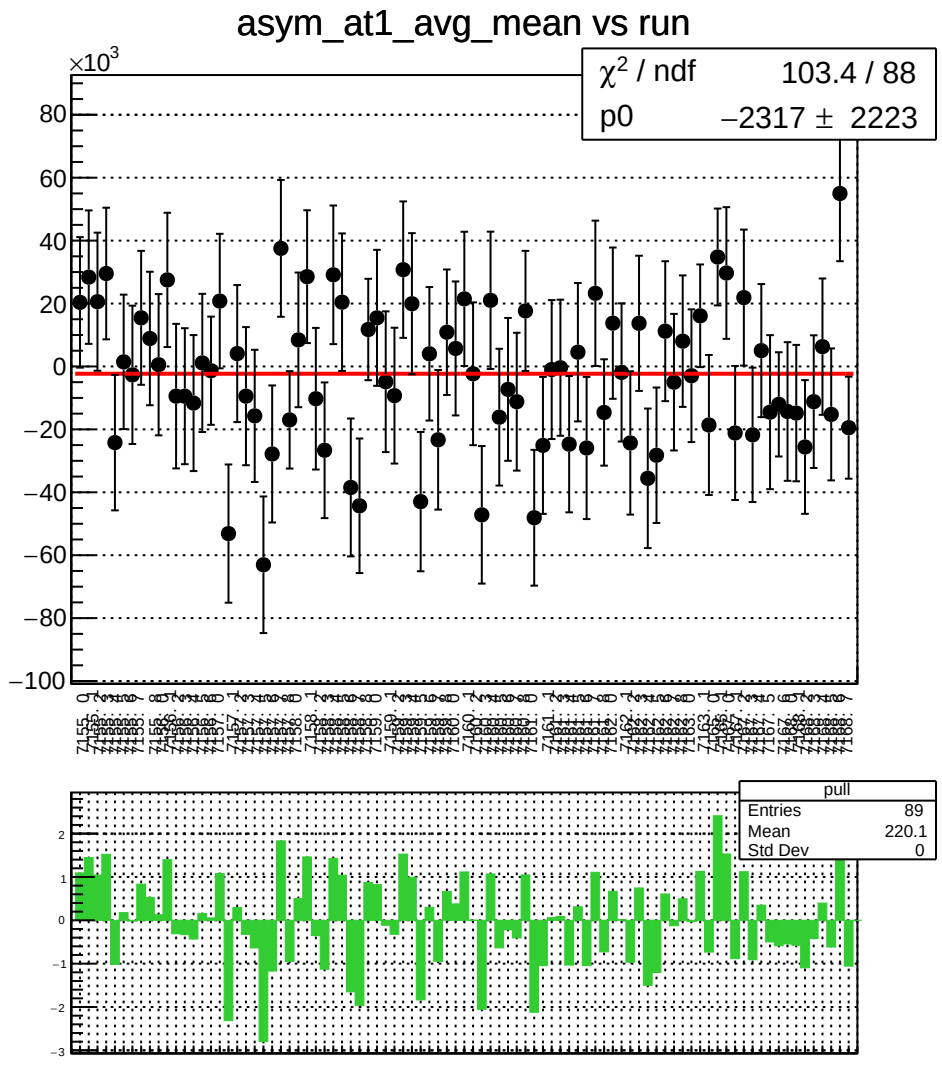

pull1D
Entries 89
Mean −0.0006216
Std Dev 1.109

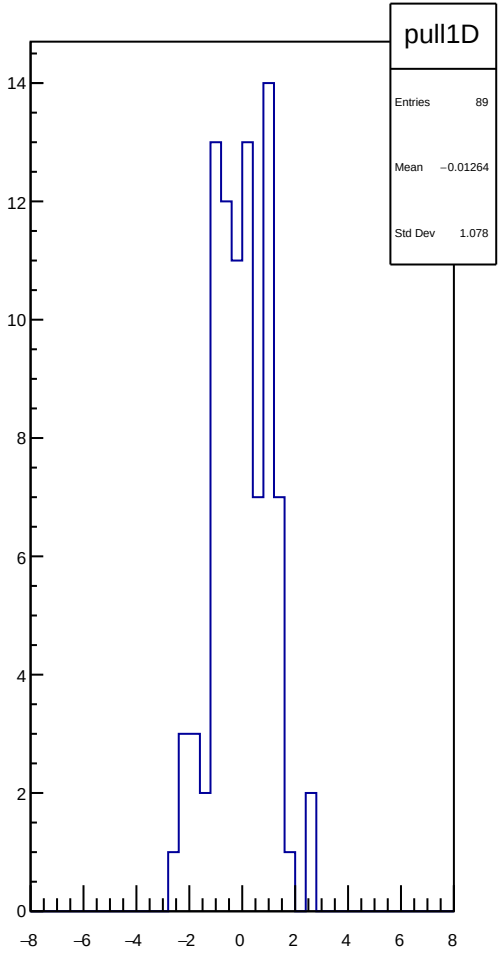

eigen_dit_asym_at1_avg_rms vs run
χ² / ndf 112 / 88
p0 1819 ± 1.383
1880
1860
1840
1820
1800
1780

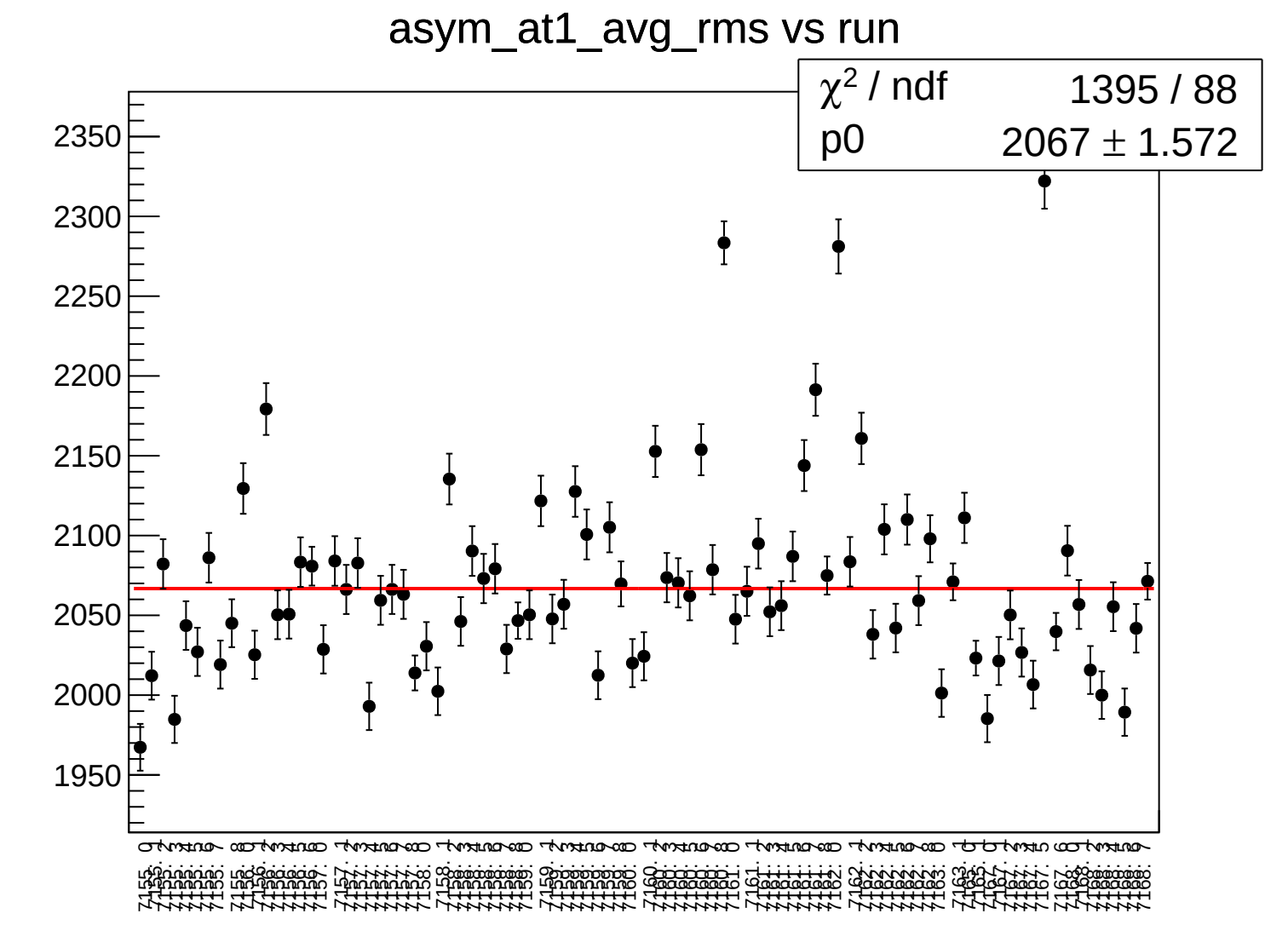

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.45 / 88
p0 −166.4 ± 1064
pull
Entries 89
Mean −7.018
Std Dev 0

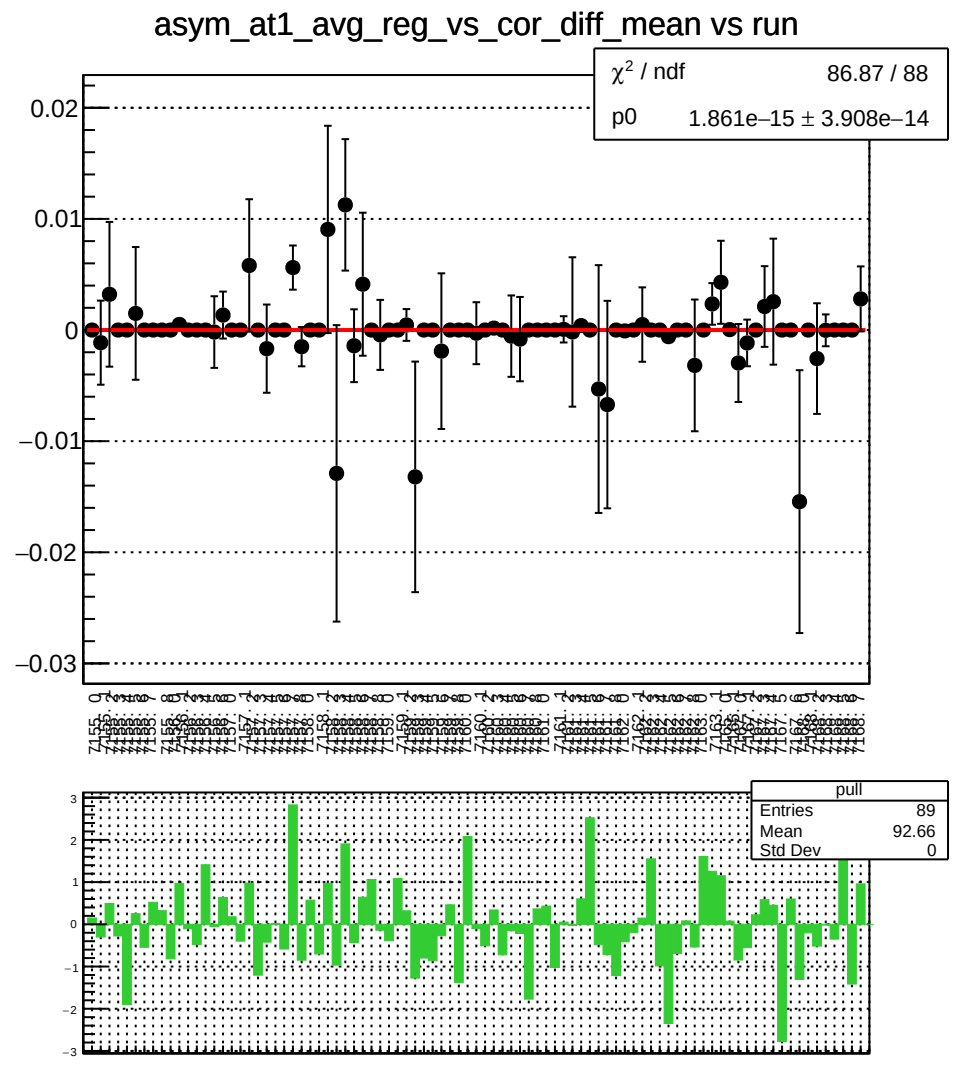

pull1D
Entries 89
Mean 0.02506
Std Dev 0.8956

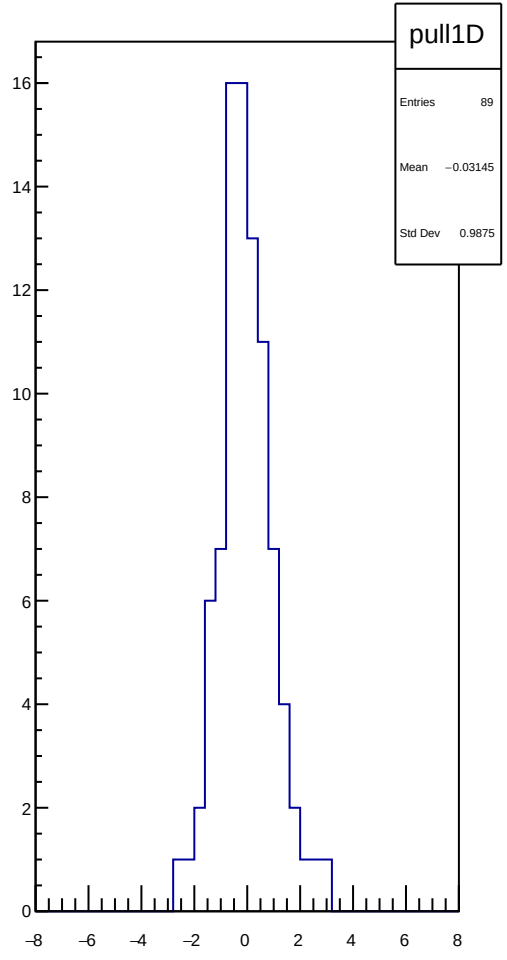

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8366 / 88
p0 987.6 ± 0.7526
1200
1150
1100
1050
1000
950
900
850

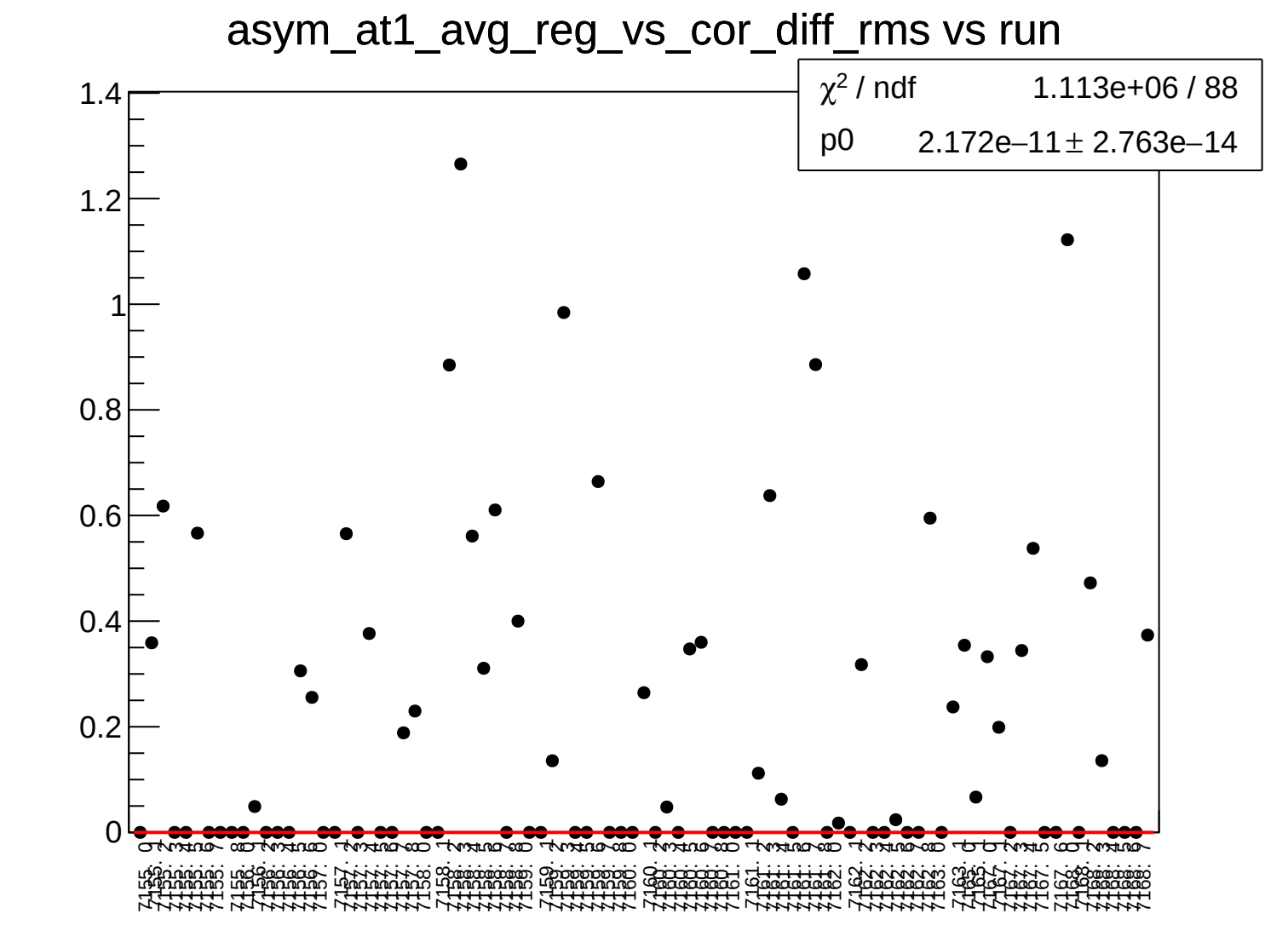

asym_at1_avg_mean vs run
×10^3
χ² / ndf 103.4 / 88
p0 −2317 ± 2223
pull
Entries 89
Mean 220.1
Std Dev 0

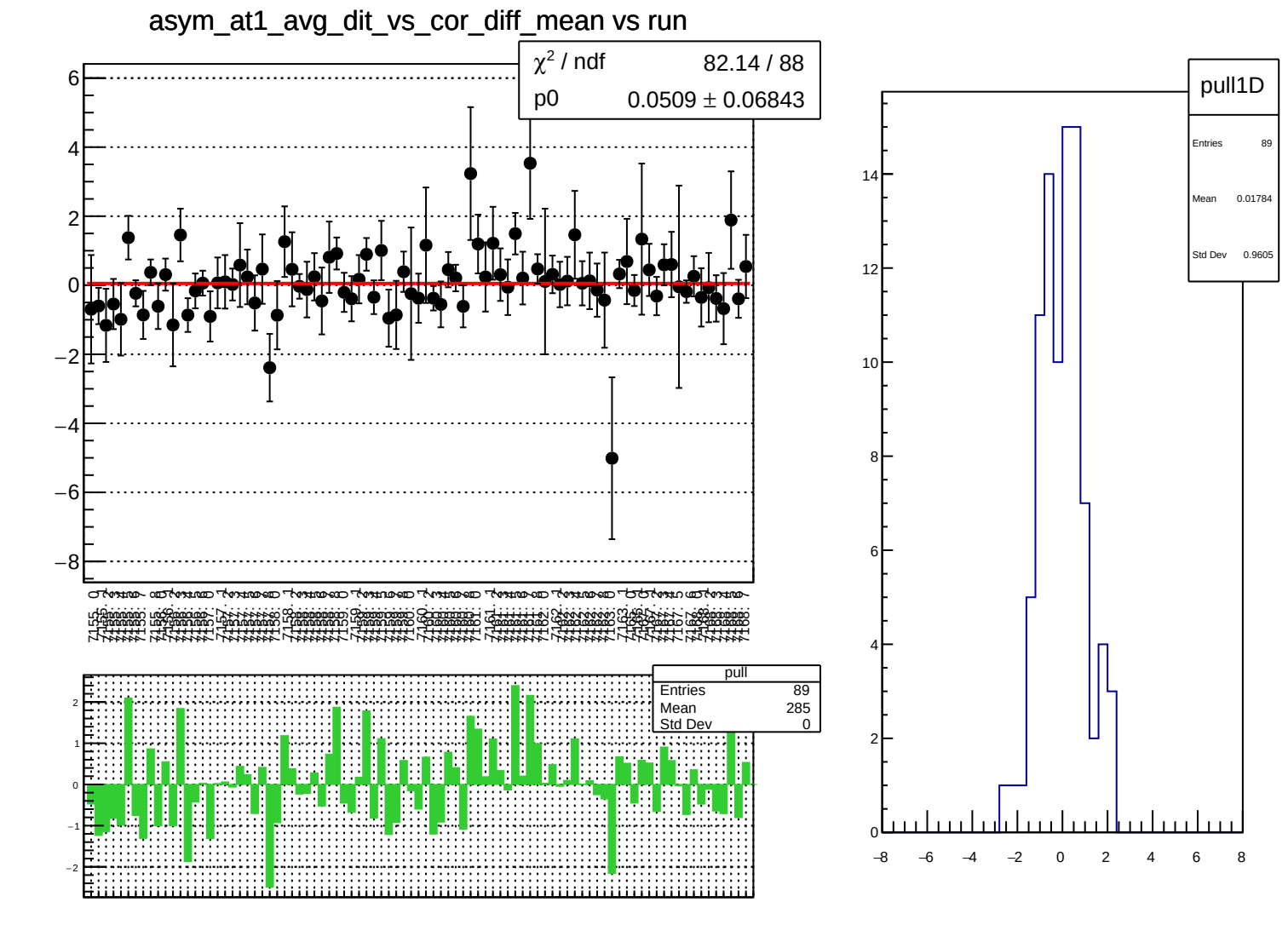

pull1D
Entries 89
Mean −0.01264
Std Dev 1.078

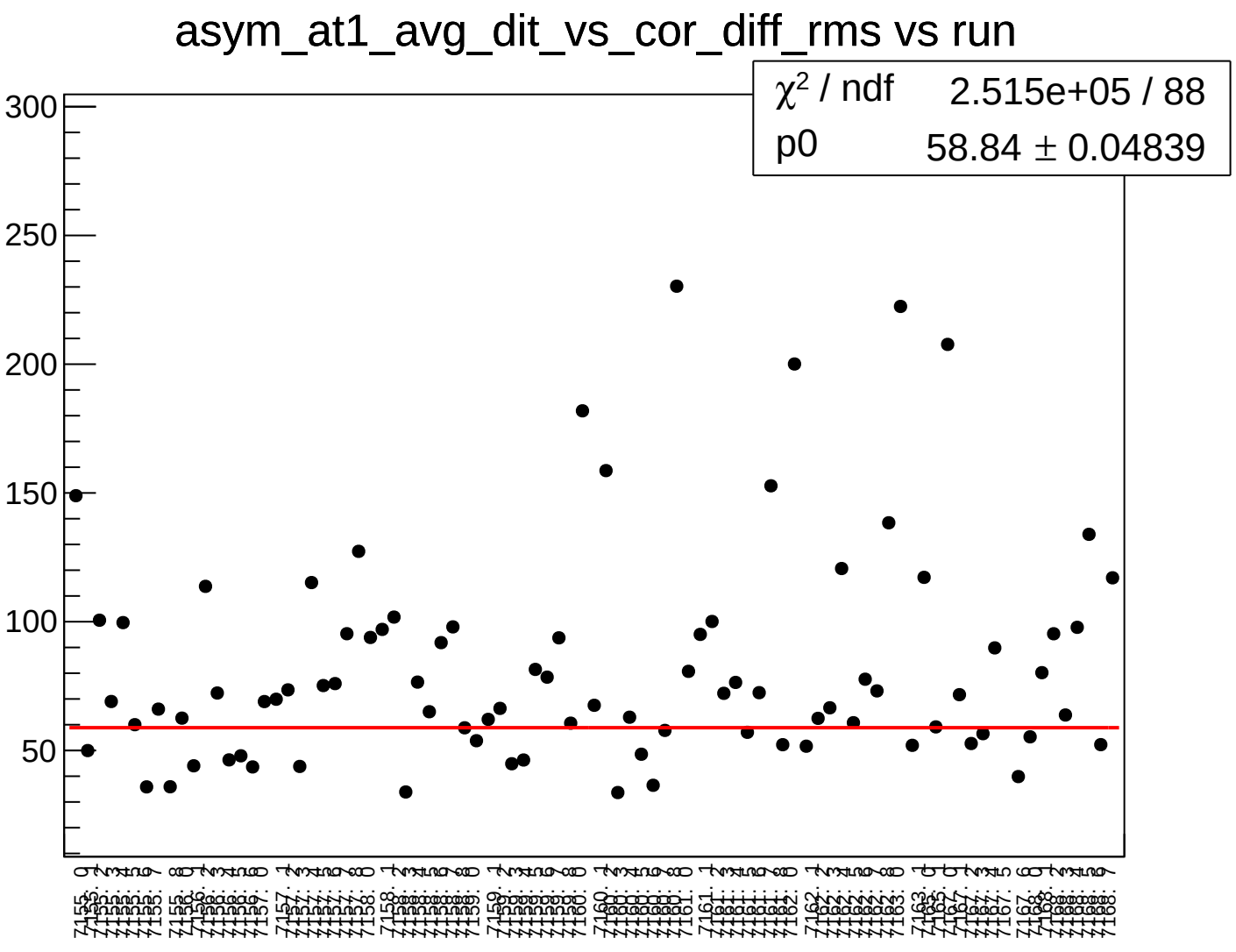

asym_at1_avg_rms vs run
χ^2 / ndf 1395 / 88
p0 2067 ± 1.572
2350
2300
2250
2200
2150
2100
2050
2000
1950

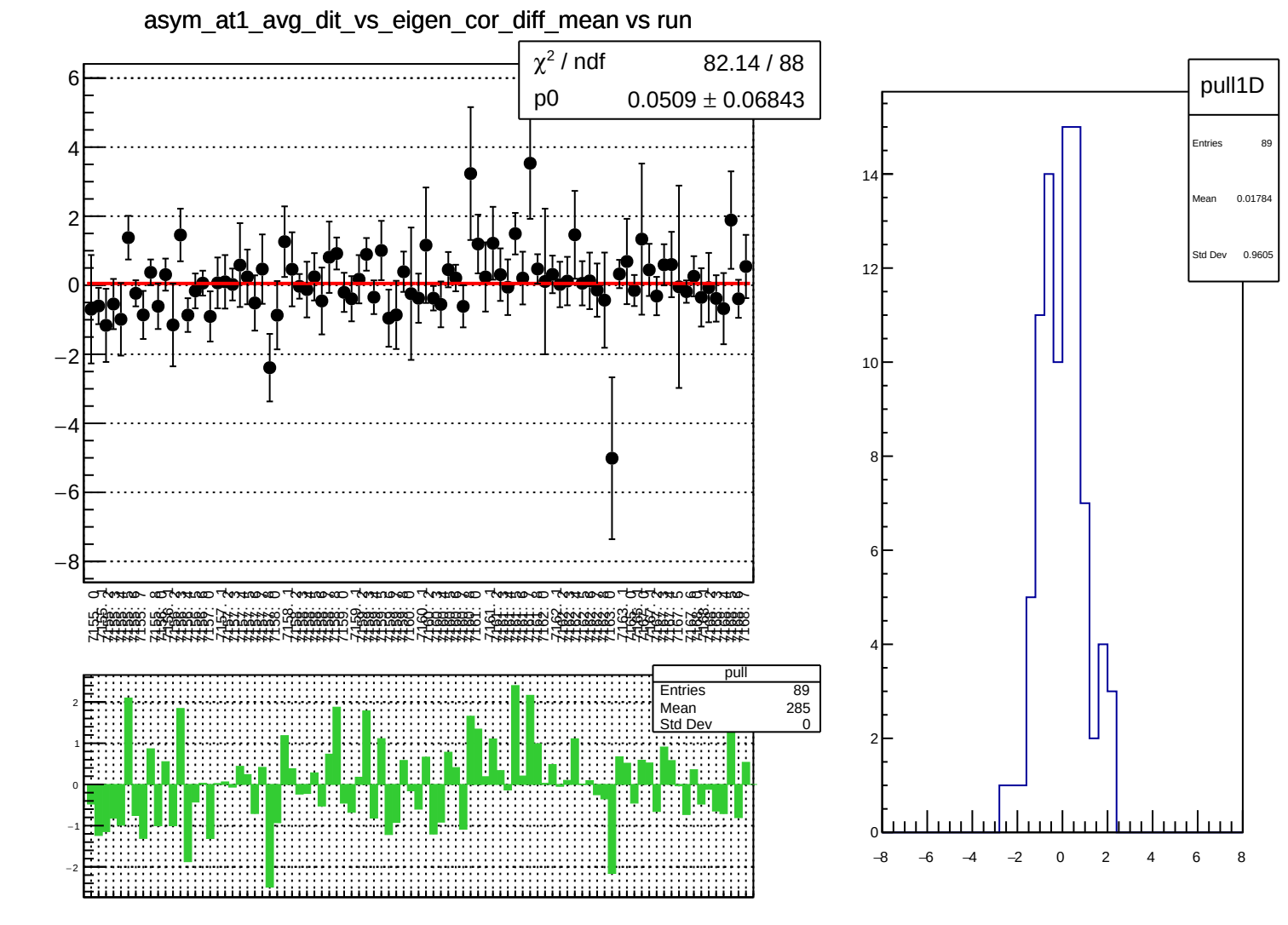

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.87 / 88
p0 1.861e−15 ± 3.908e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 92.66
Std Dev 0
3
2
1
0
−1
−2
−3

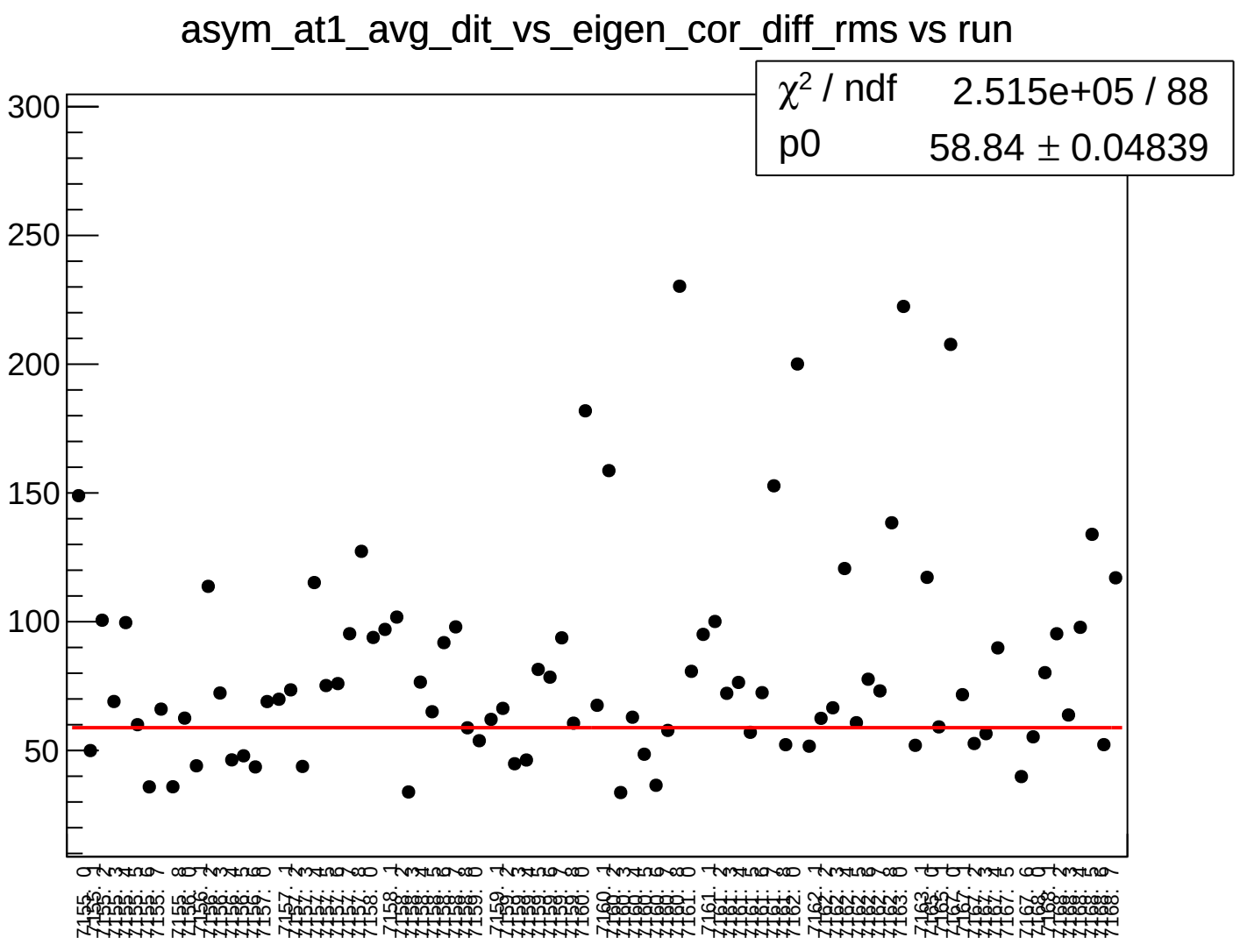

pull1D
Entries 89
Mean −0.03145
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

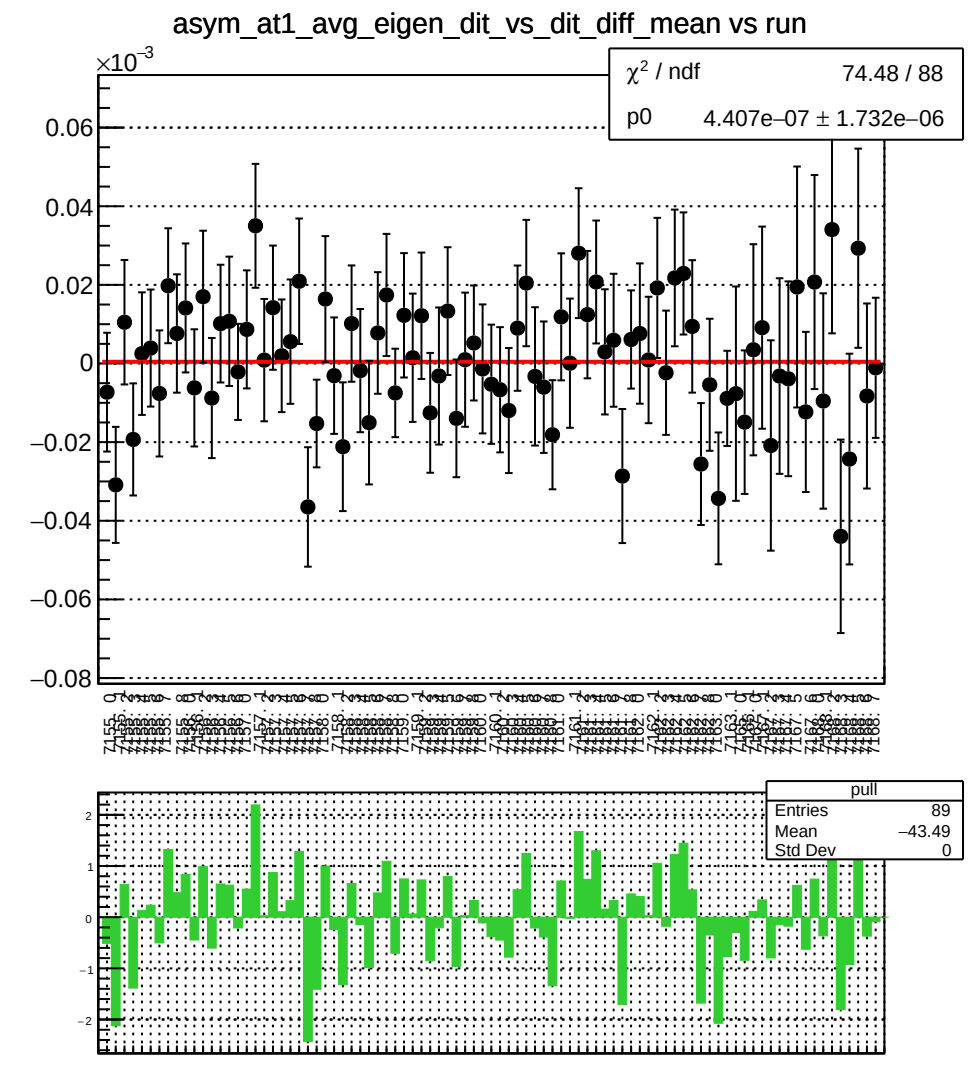

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.113e+06 / 88
p0 2.172e−11 ± 2.763e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

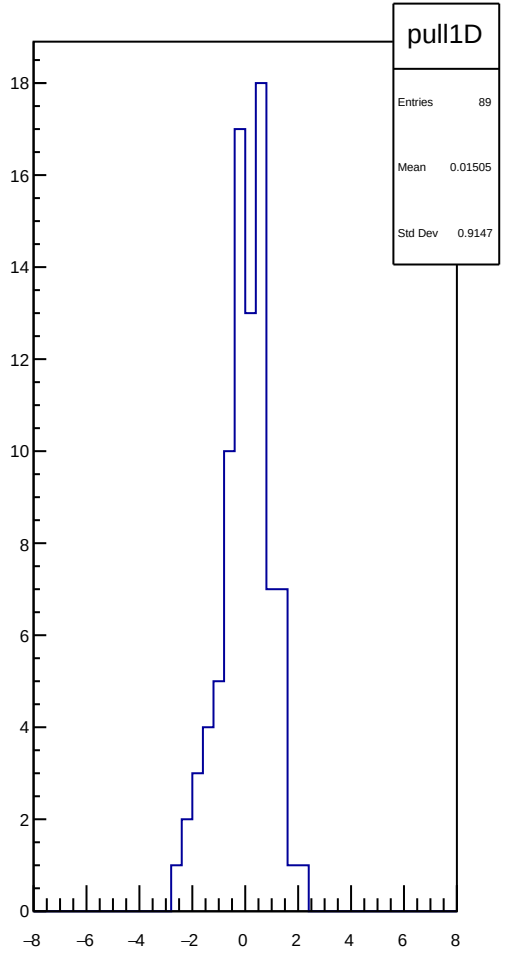

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 88
p0 0.0509 ± 0.06843
pull
Entries 89
Mean 285
Std Dev 0
pull1D
Entries 89
Mean 0.01784
Std Dev 0.9605

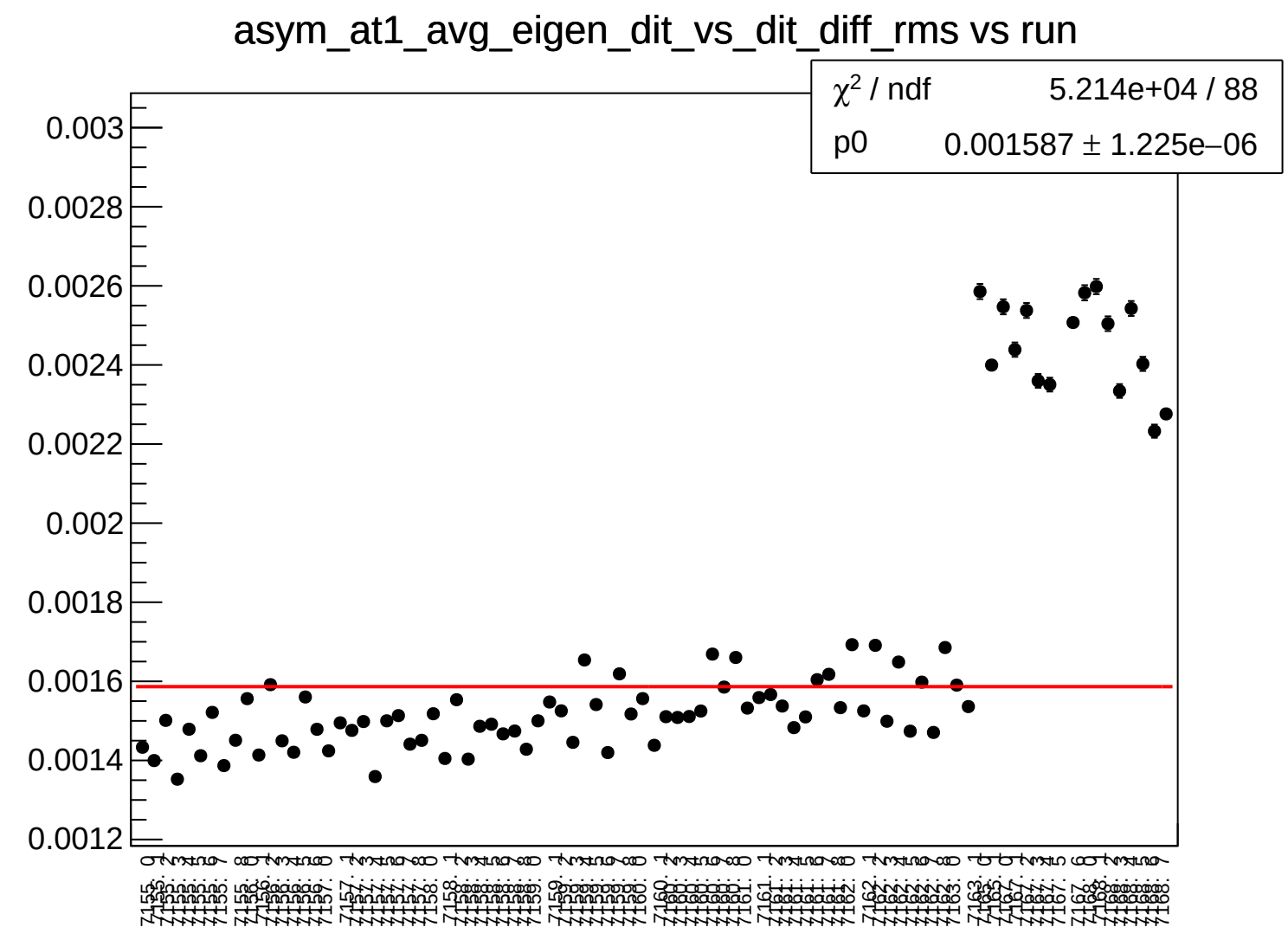

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.515e+05 / 88
p0 58.84 ± 0.04839
300
250
200
150
100
50

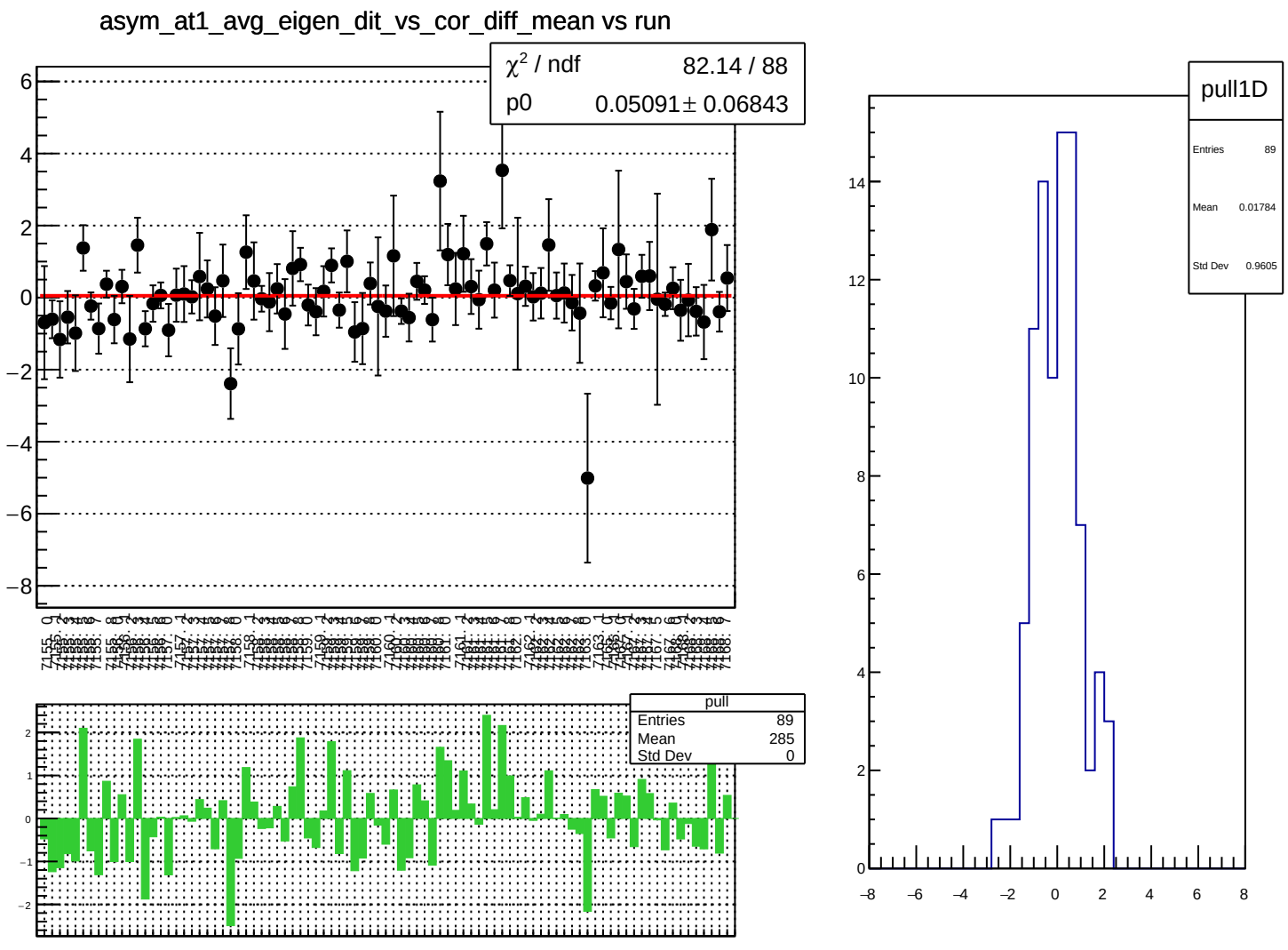

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 88
p0 0.0509 ± 0.06843
pull
Entries 89
Mean 285
Std Dev 0
pull1D
Entries 89
Mean 0.01784
Std Dev 0.9605

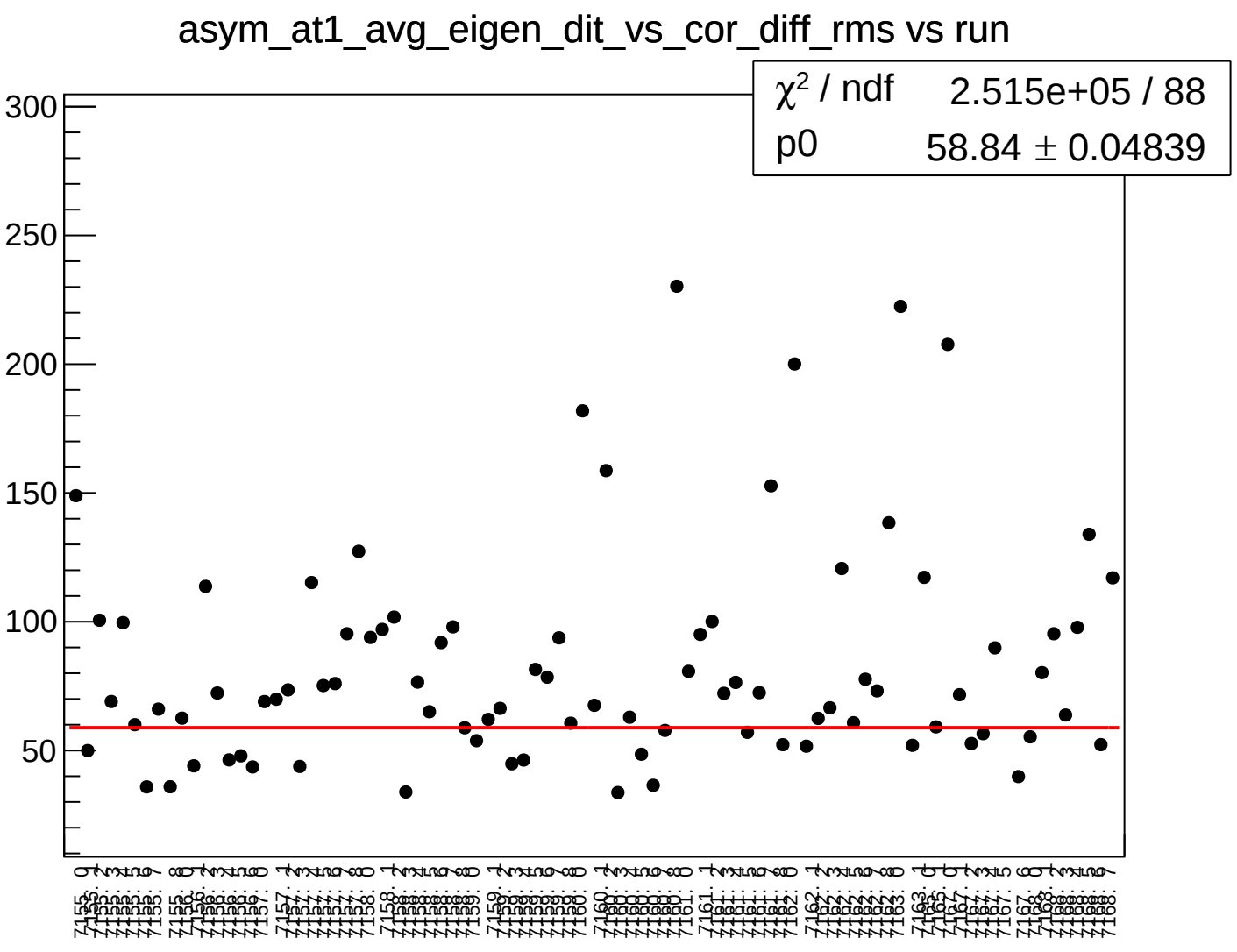

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.515e+05 / 88
p0 58.84 ± 0.04839
300
250
200
150
100
50

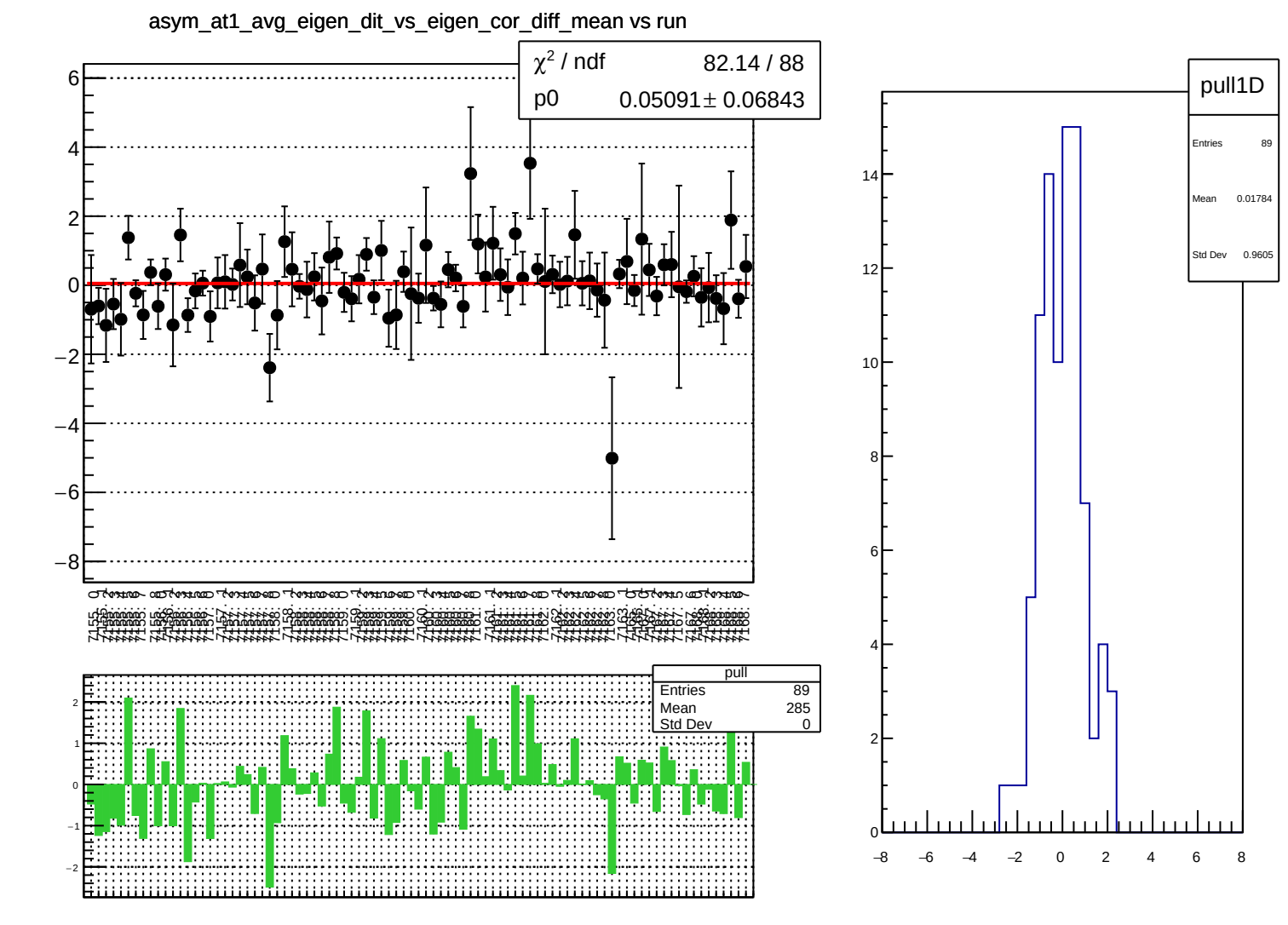

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.48 / 88
p0 4.407e−07 ± 1.732e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −43.49
Std Dev 0
2
1
0
−1
−2

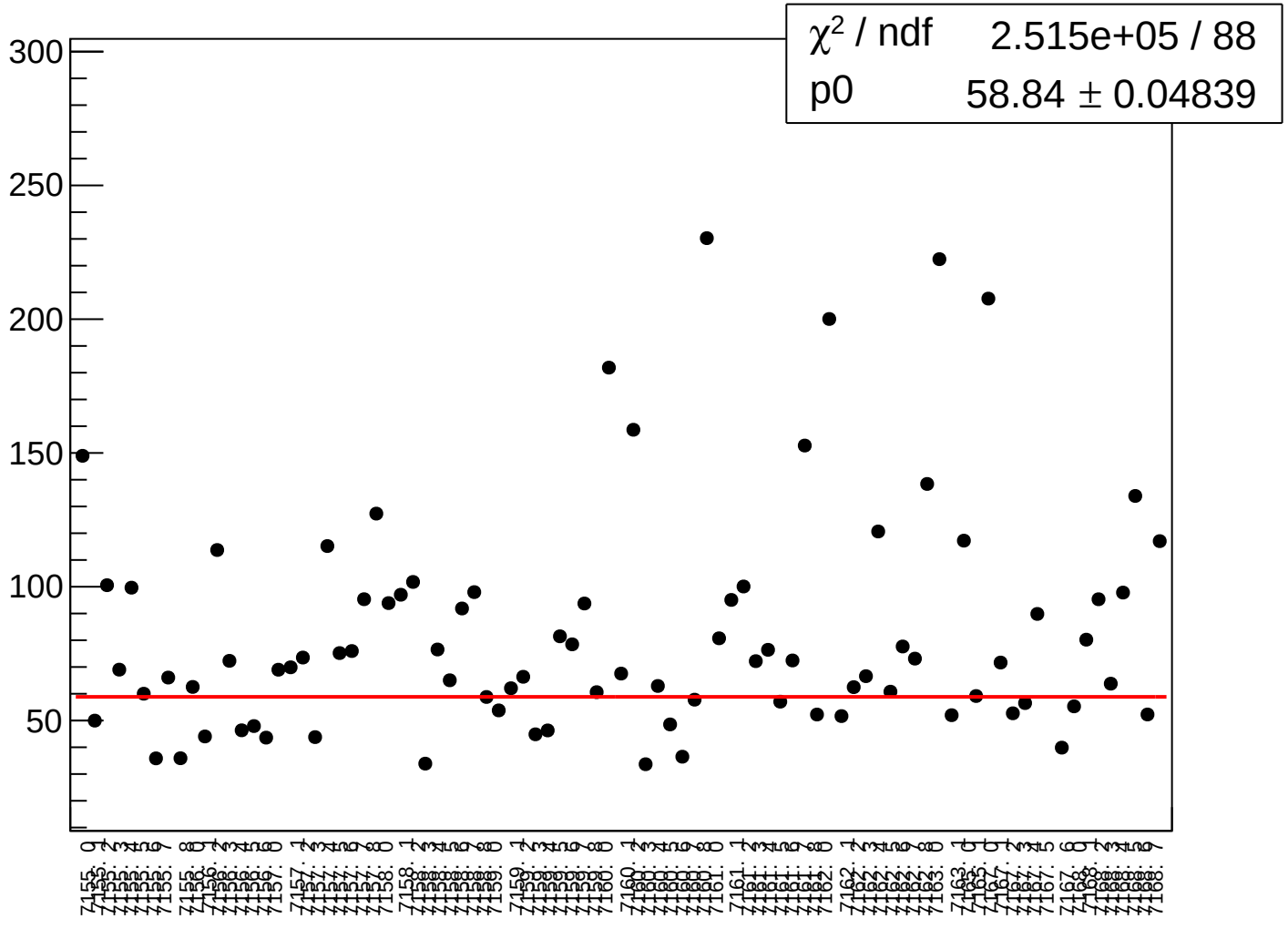

pull1D
Entries 89
Mean 0.01505
Std Dev 0.9147
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

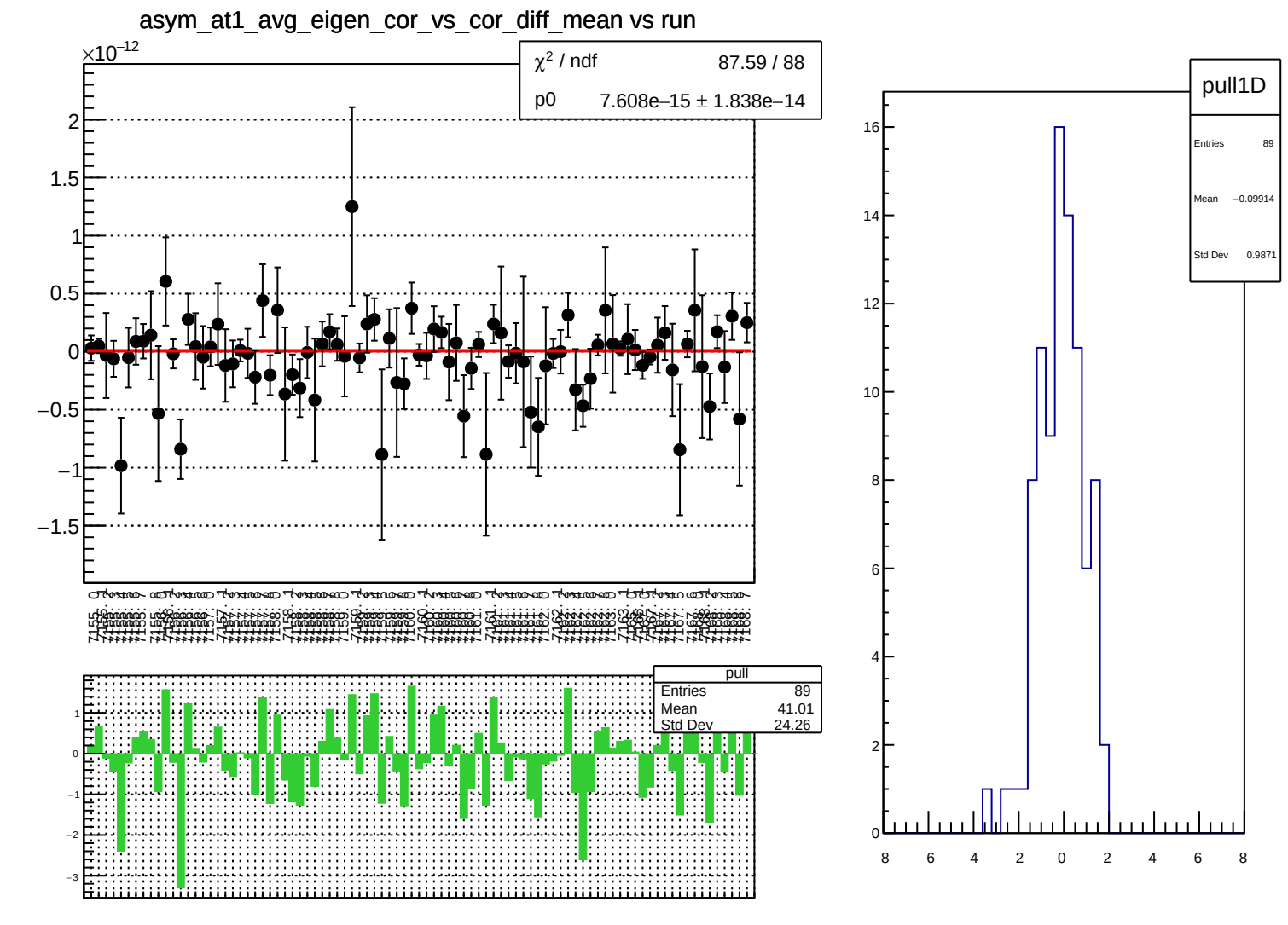

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.214e+04 / 88
p0 0.001587 ± 1.225e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

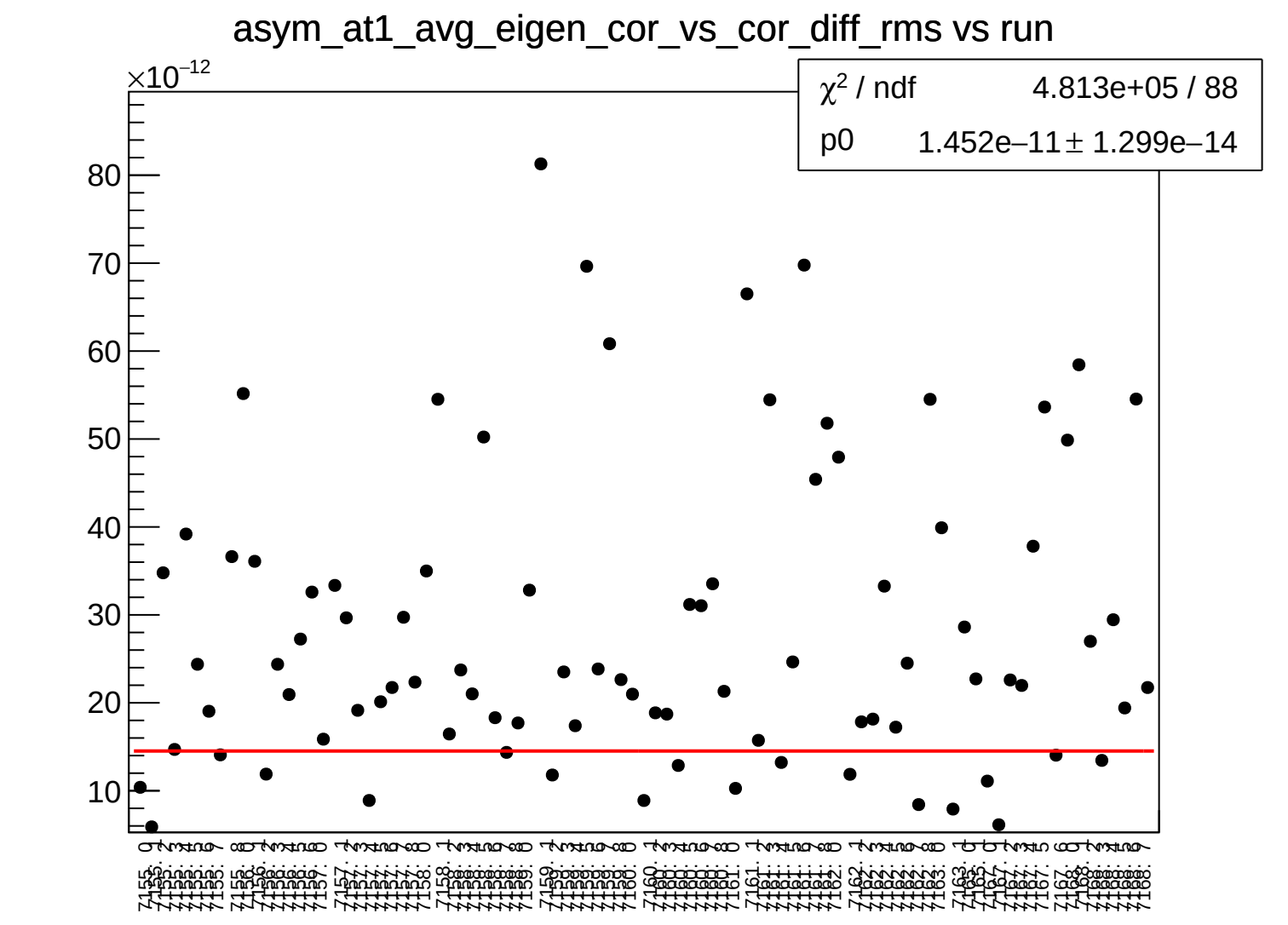

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.14 / 88
p0 0.05091 ± 0.06843
pull
Entries 89
Mean 285
Std Dev 0
pull1D
Entries 89
Mean 0.01784
Std Dev 0.9605

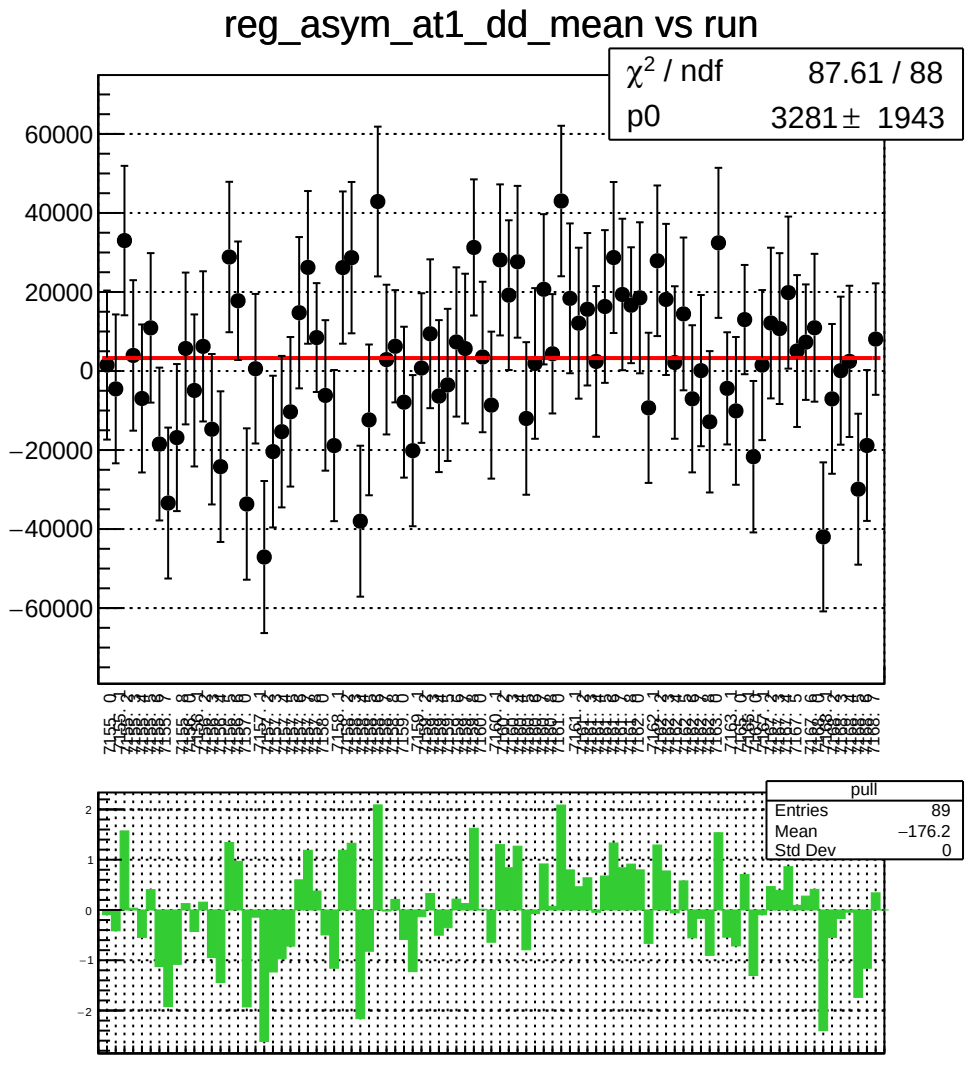

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.515e+05 / 88
p0 58.84 ± 0.04839
300
250
200
150
100
50

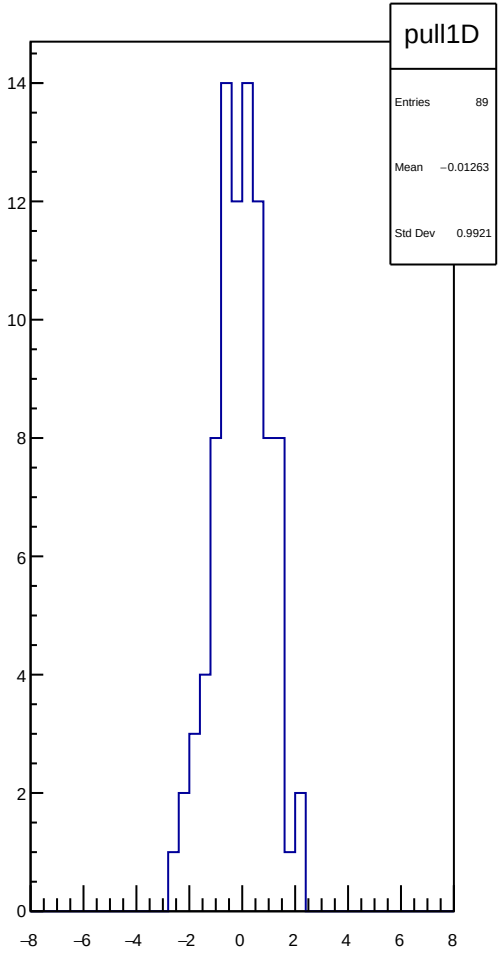

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.14 / 88
p0 0.05091 ± 0.06843
pull
Entries 89
Mean 285
Std Dev 0
pull1D
Entries 89
Mean 0.01784
Std Dev 0.9605

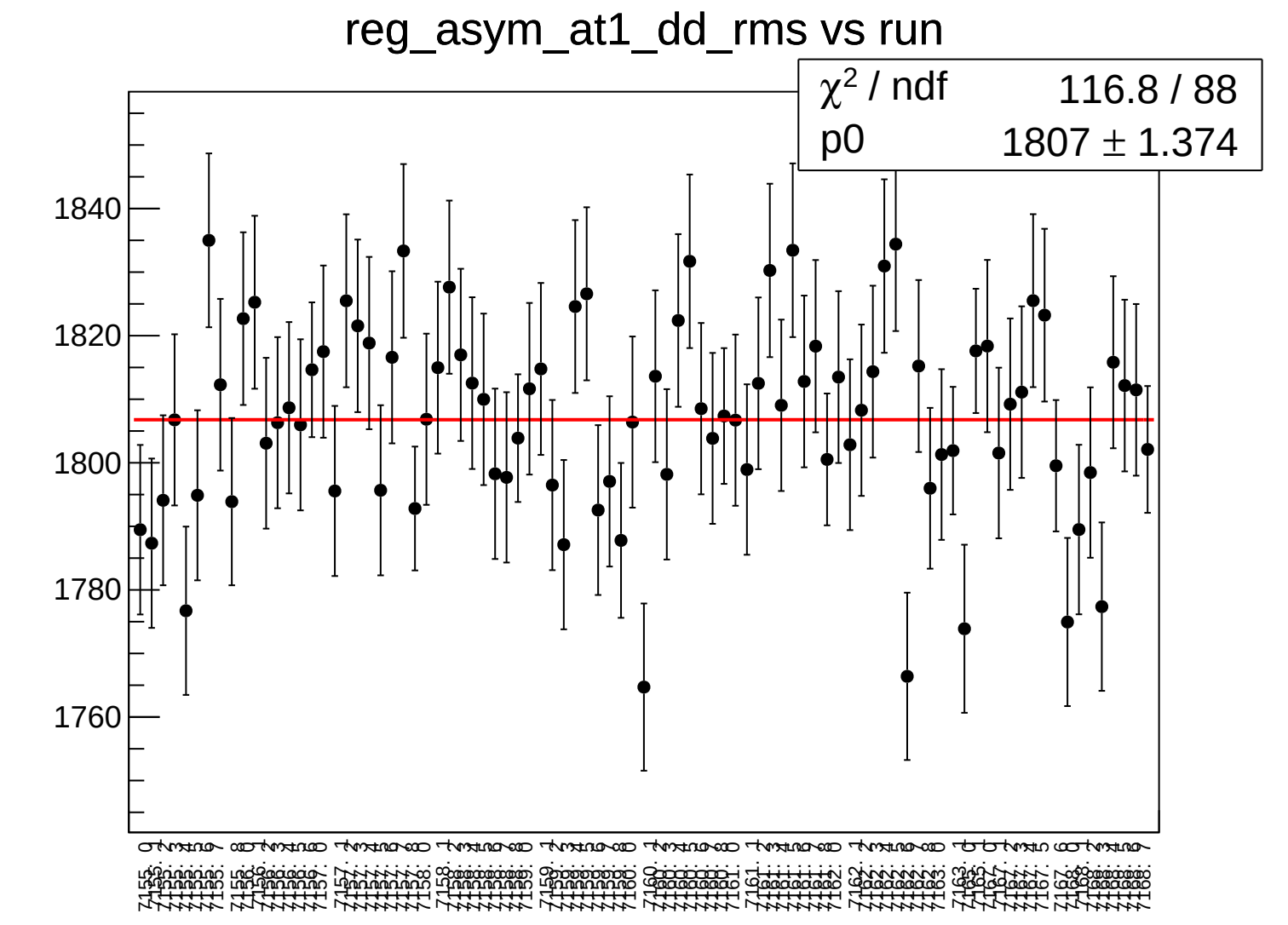

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.515e+05 / 88
p0 58.84 ± 0.04839
300
250
200
150
100
50

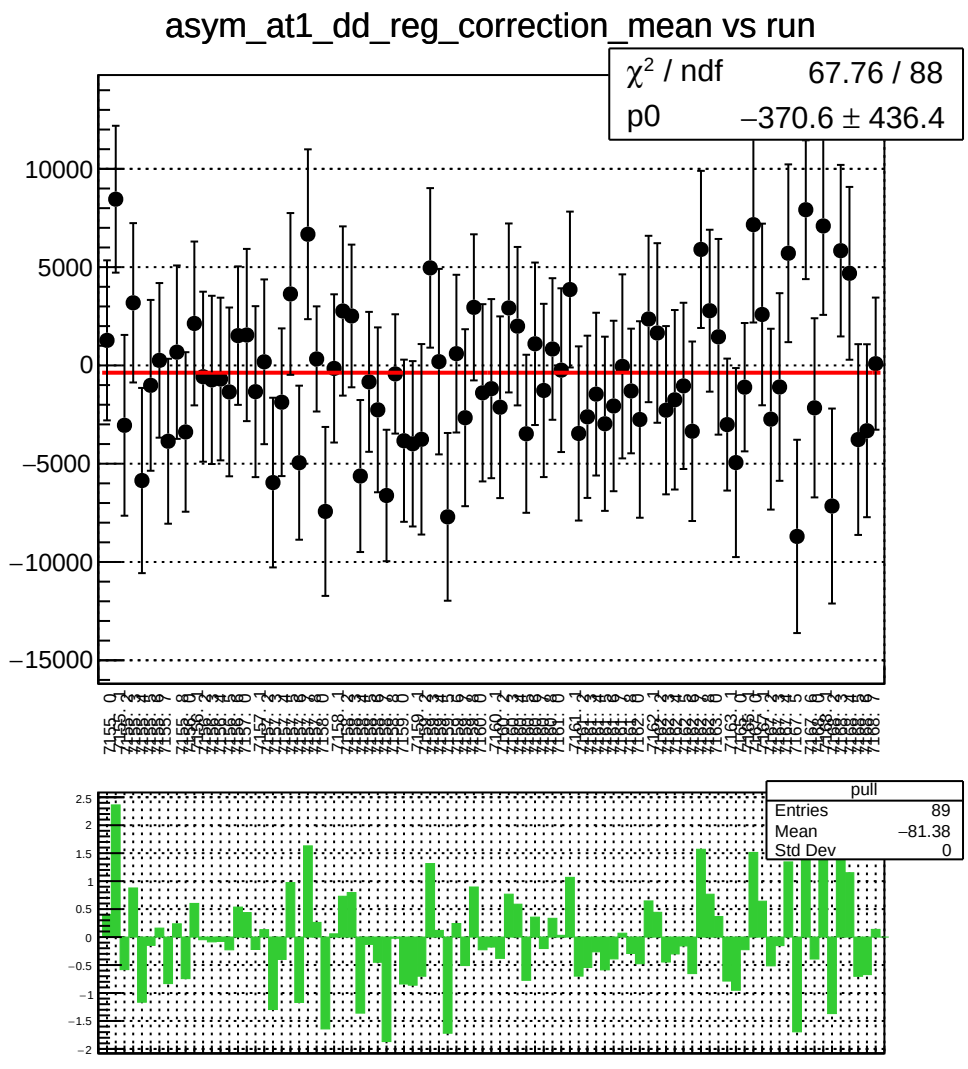

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.59 / 88
p0 7.608e−15 ± 1.838e−14
pull
Entries 89
Mean 41.01
Std Dev 24.26
pull1D
Entries 89
Mean −0.09914
Std Dev 0.9871

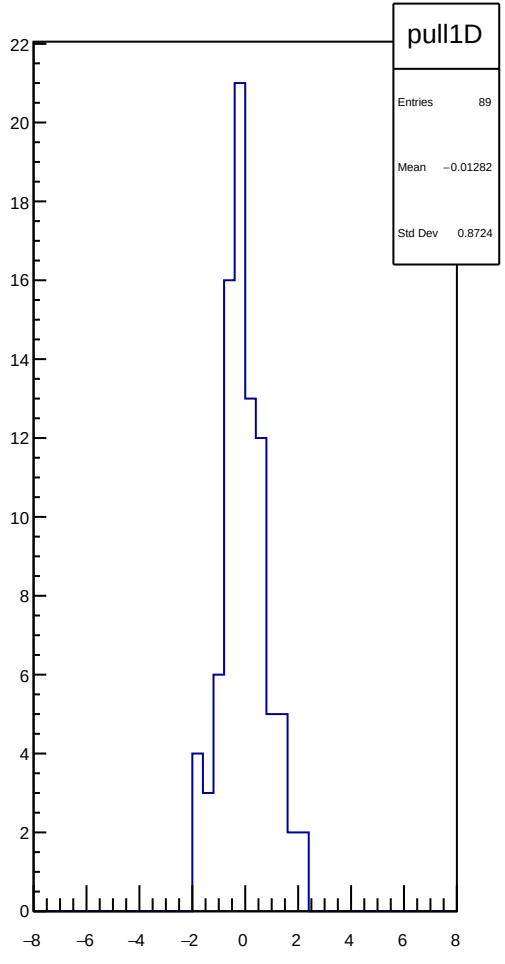

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.813e+05 / 88
p0 1.452e−11 ± 1.299e−14
80
70
60
50
40
30
20
10

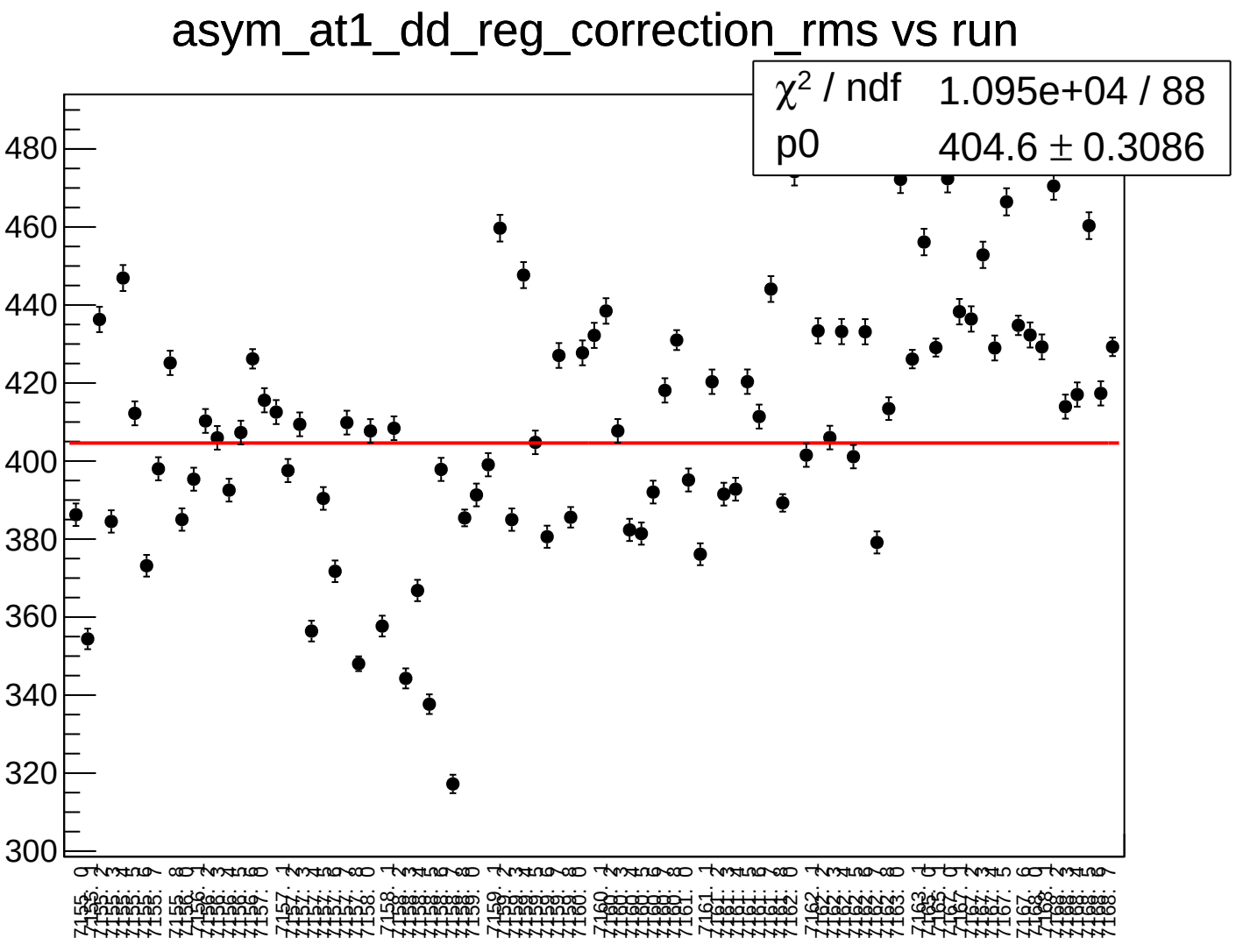

reg_asym_at1_dd_mean vs run
χ² / ndf 87.61 / 88
p0 3281 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −176.2
Std Dev 0
2
1
0
−1
−2

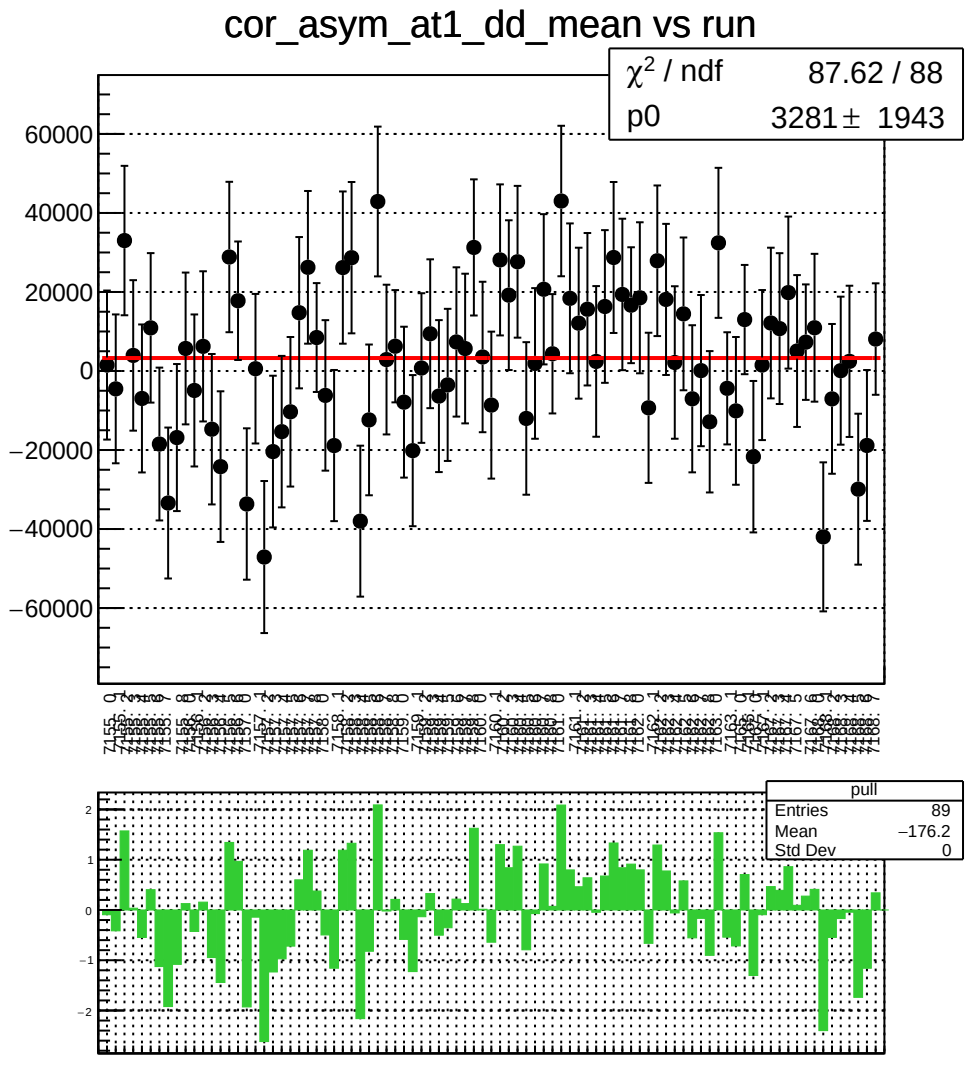

pull1D
Entries 89
Mean −0.01263
Std Dev 0.9921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

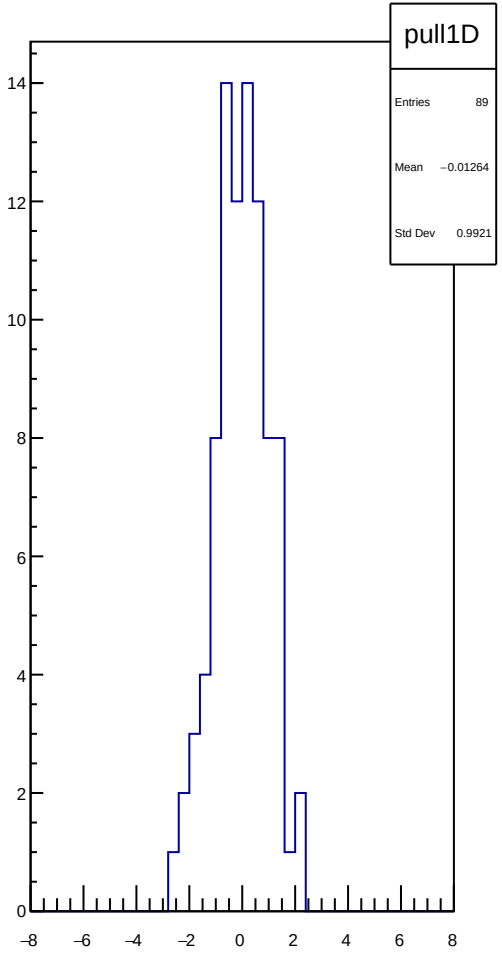

reg_asym_at1_dd_rms vs run
χ^2 / ndf 116.8 / 88
p0 1807 ± 1.374
1840
1820
1800
1780
1760

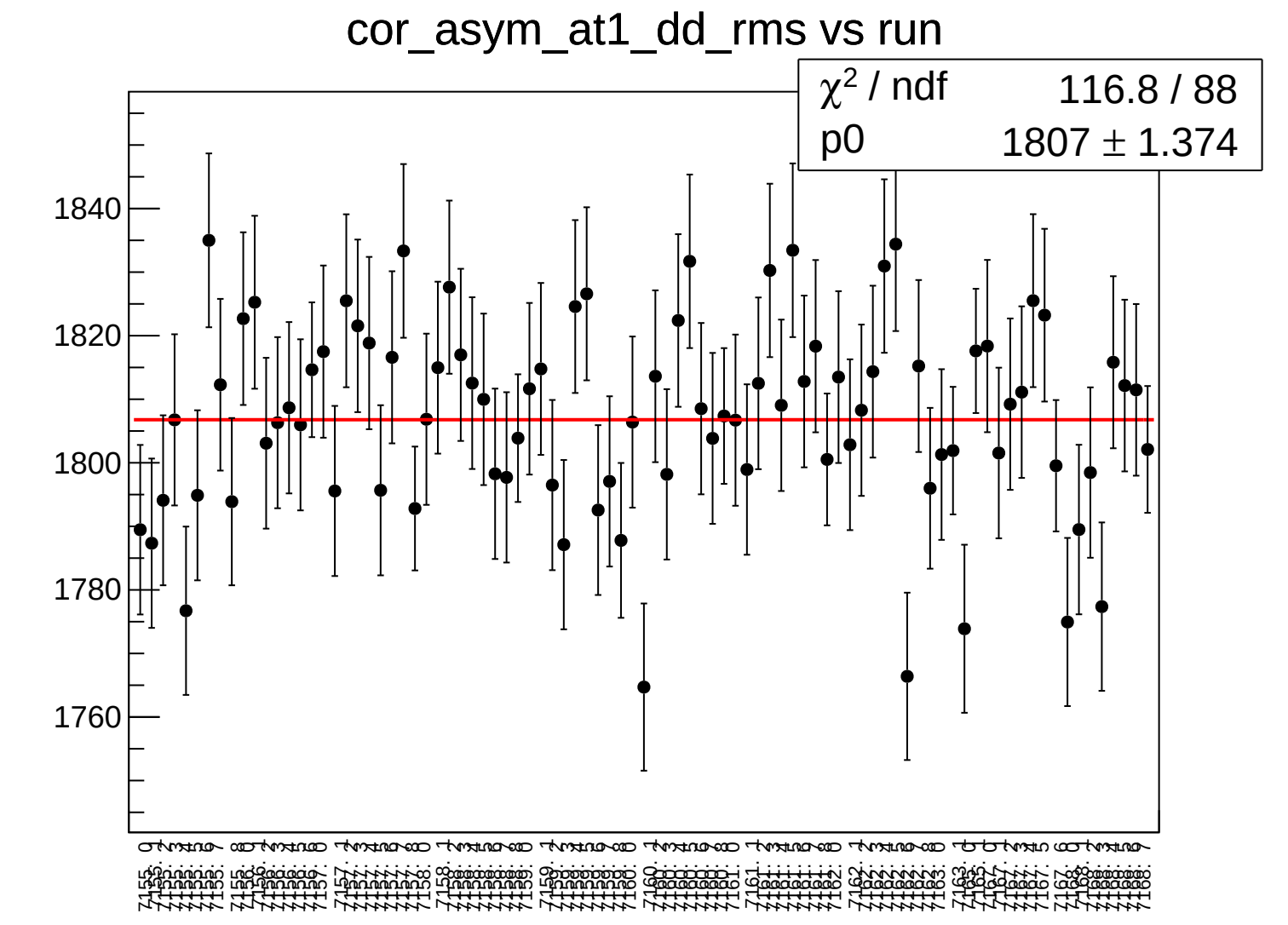

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 67.76 / 88
p0 −370.6 ± 436.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −81.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

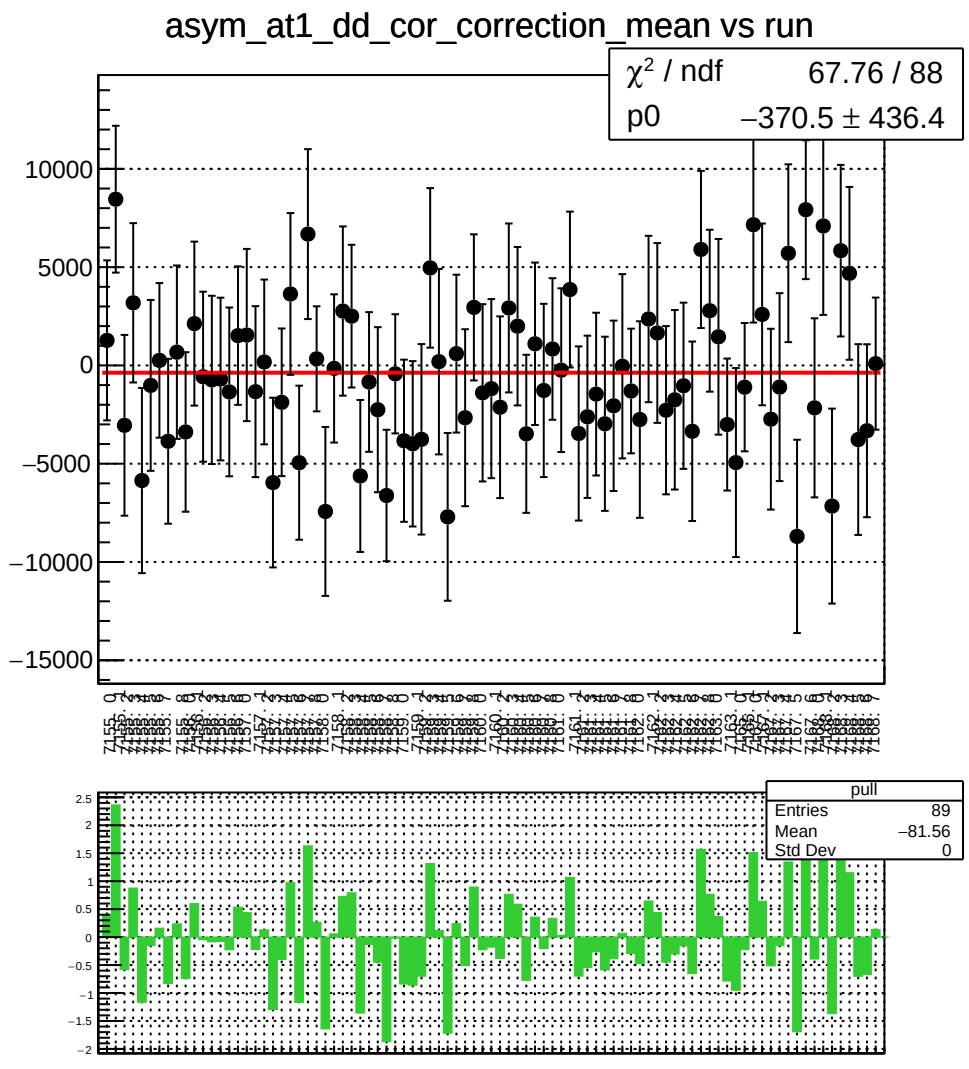

pull1D
Entries 89
Mean −0.01282
Std Dev 0.8724
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

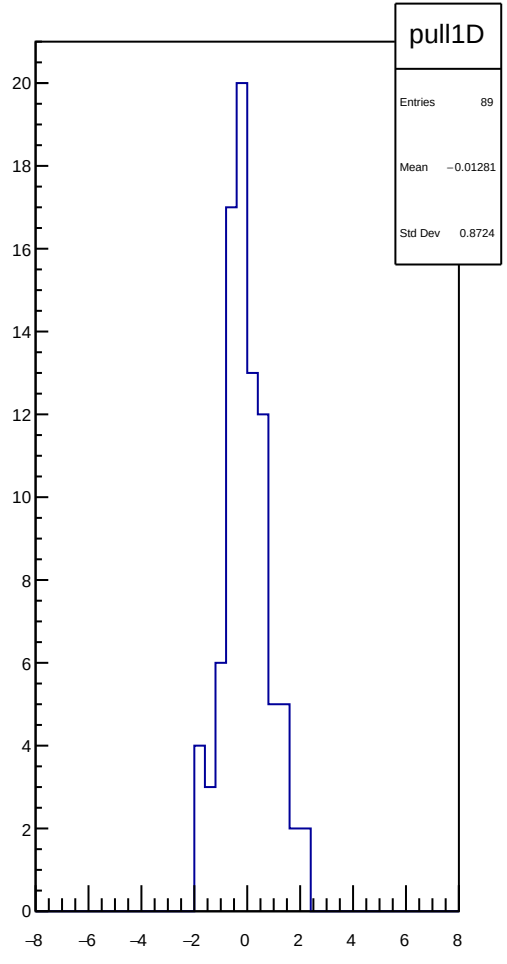

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 1.095e+04 / 88
p0 404.6 ± 0.3086
480
460
440
420
400
380
360
340
320
300

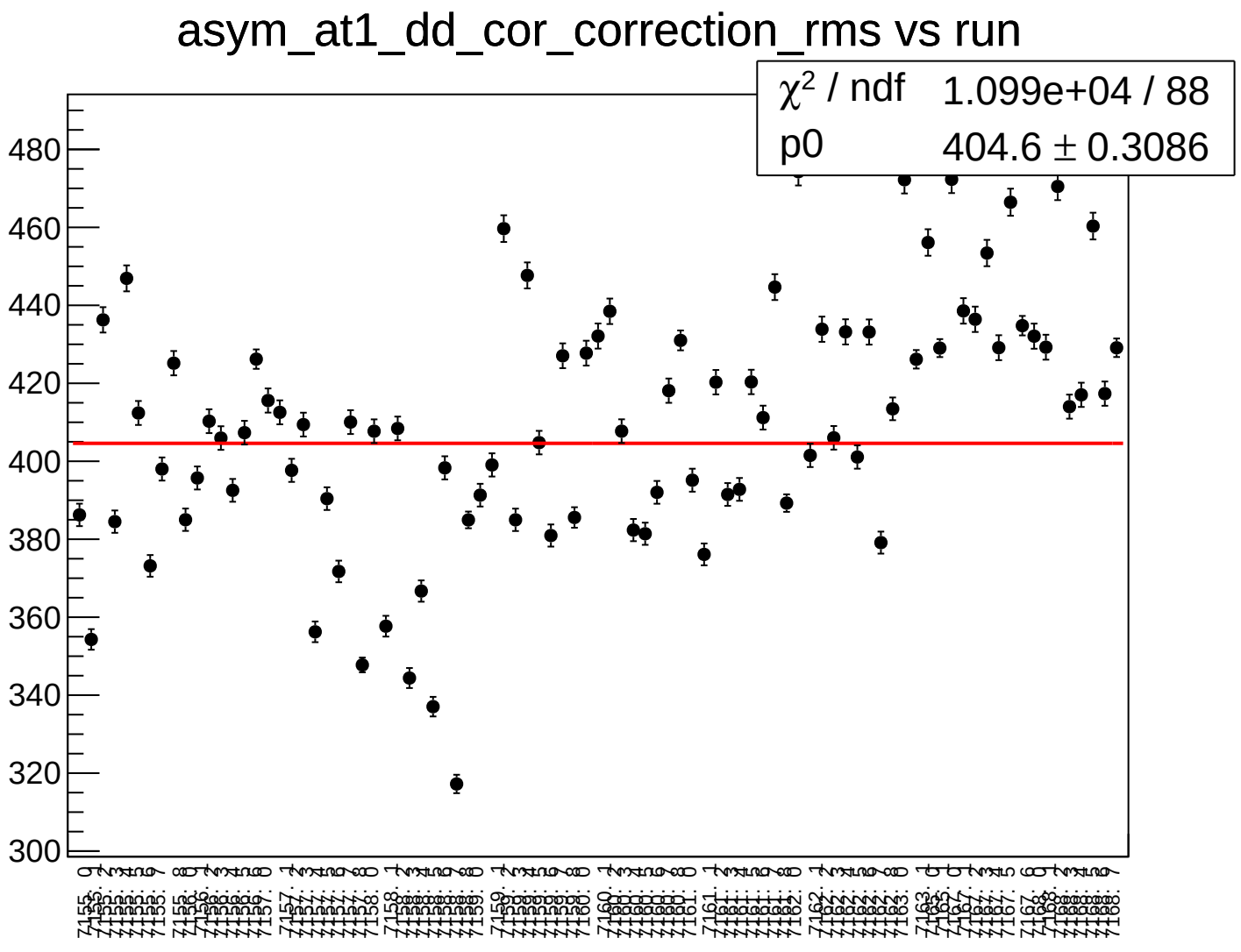

cor_asym_at1_dd_mean vs run
χ² / ndf 87.62 / 88
p0 3281 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −176.2
Std Dev 0
2
1
0
−1
−2

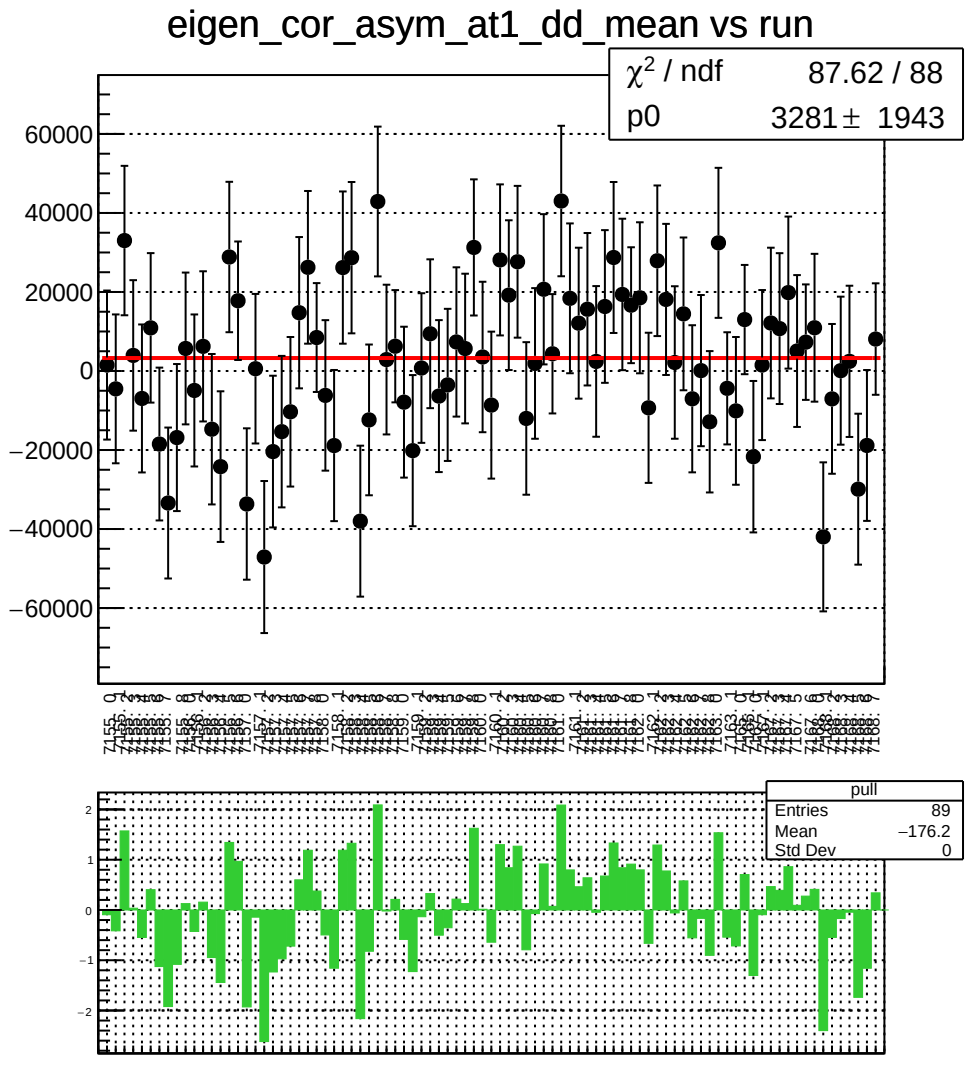

pull1D
Entries 89
Mean −0.01264
Std Dev 0.9921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

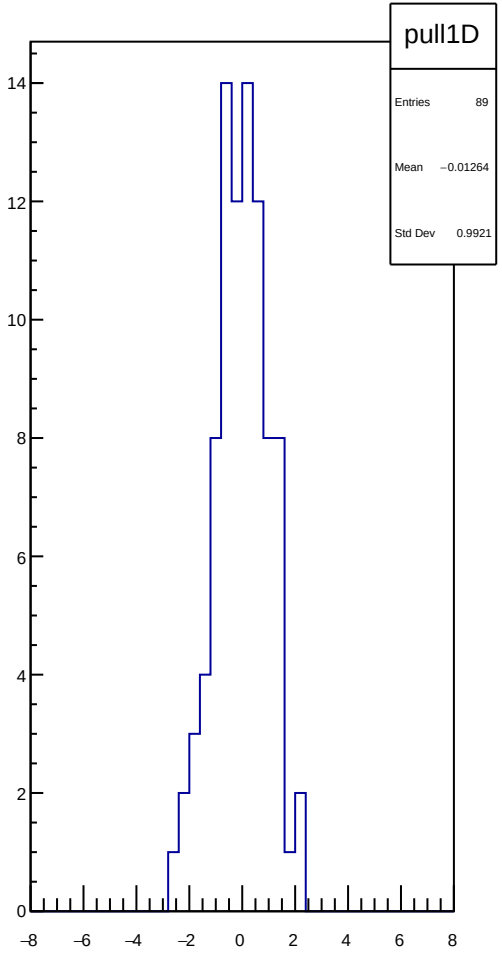

cor_asym_at1_dd_rms vs run
χ^2 / ndf 116.8 / 88
p0 1807 ± 1.374
1840
1820
1800
1780
1760

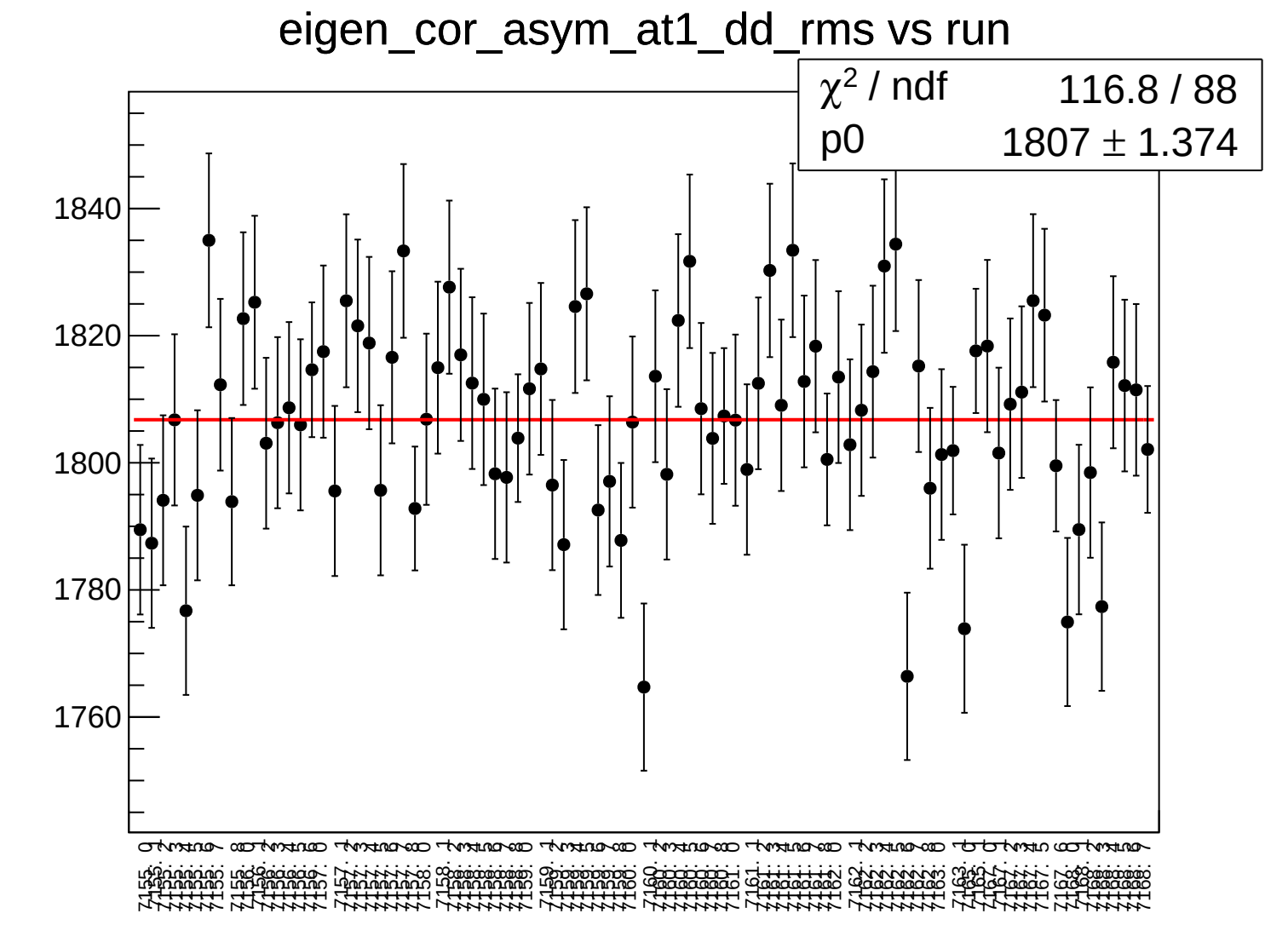

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 67.76 / 88
p0 −370.5 ± 436.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −81.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

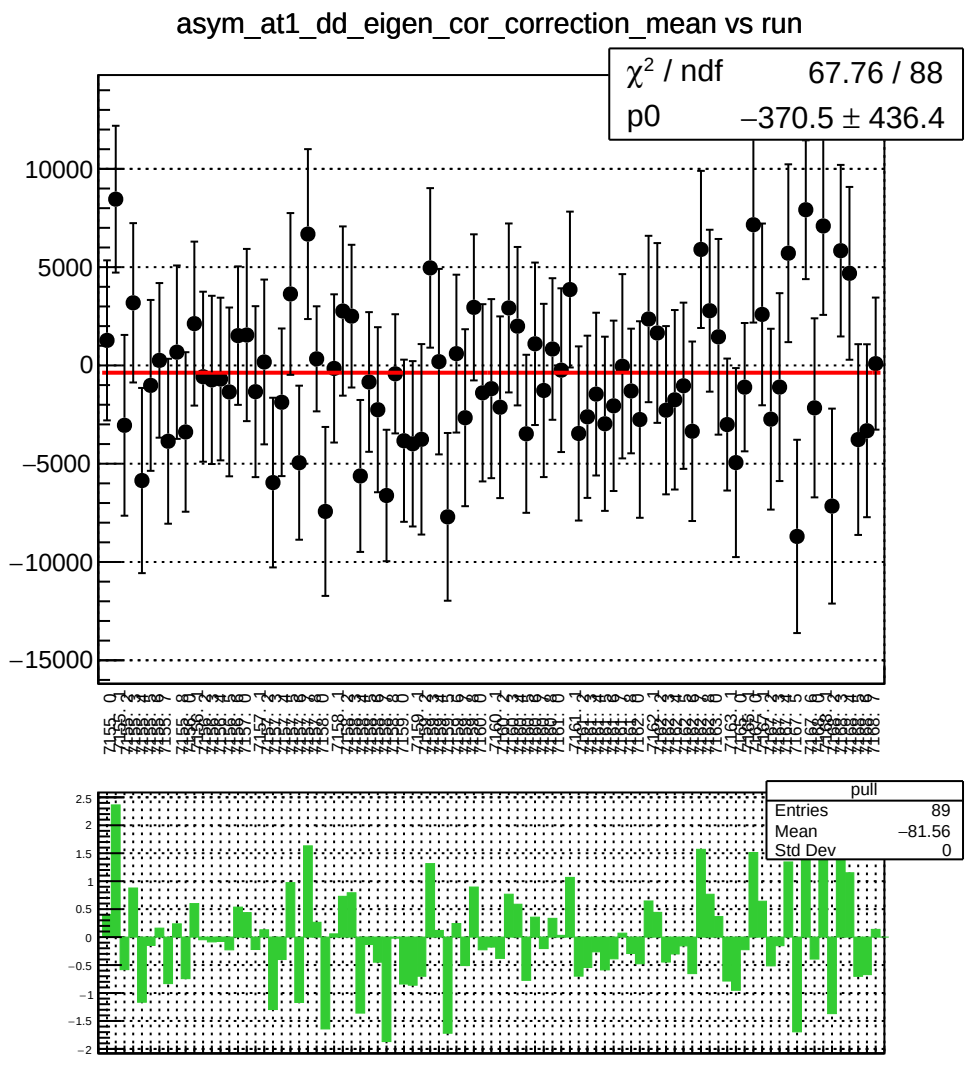

pull1D
Entries 89
Mean −0.01281
Std Dev 0.8724
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

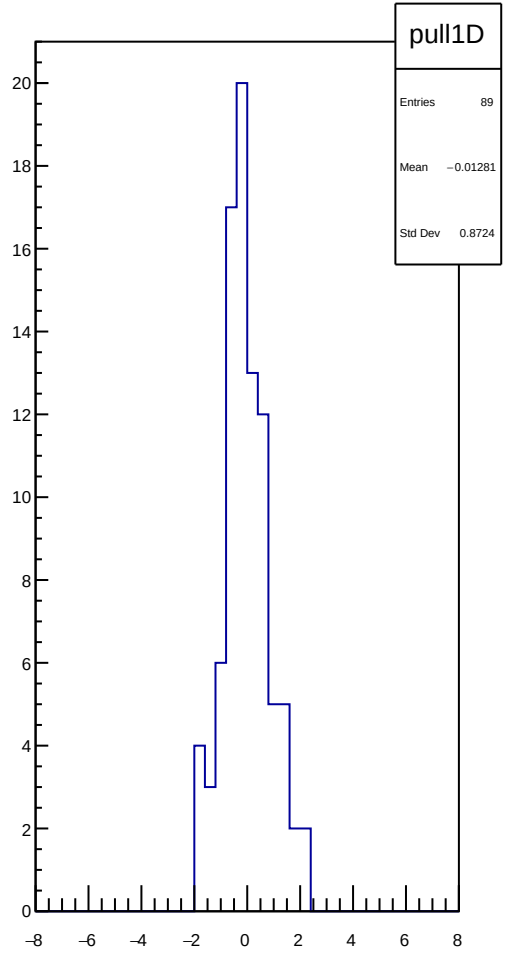

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 1.099e+04 / 88
p0 404.6 ± 0.3086
480
460
440
420
400
380
360
340
320
300

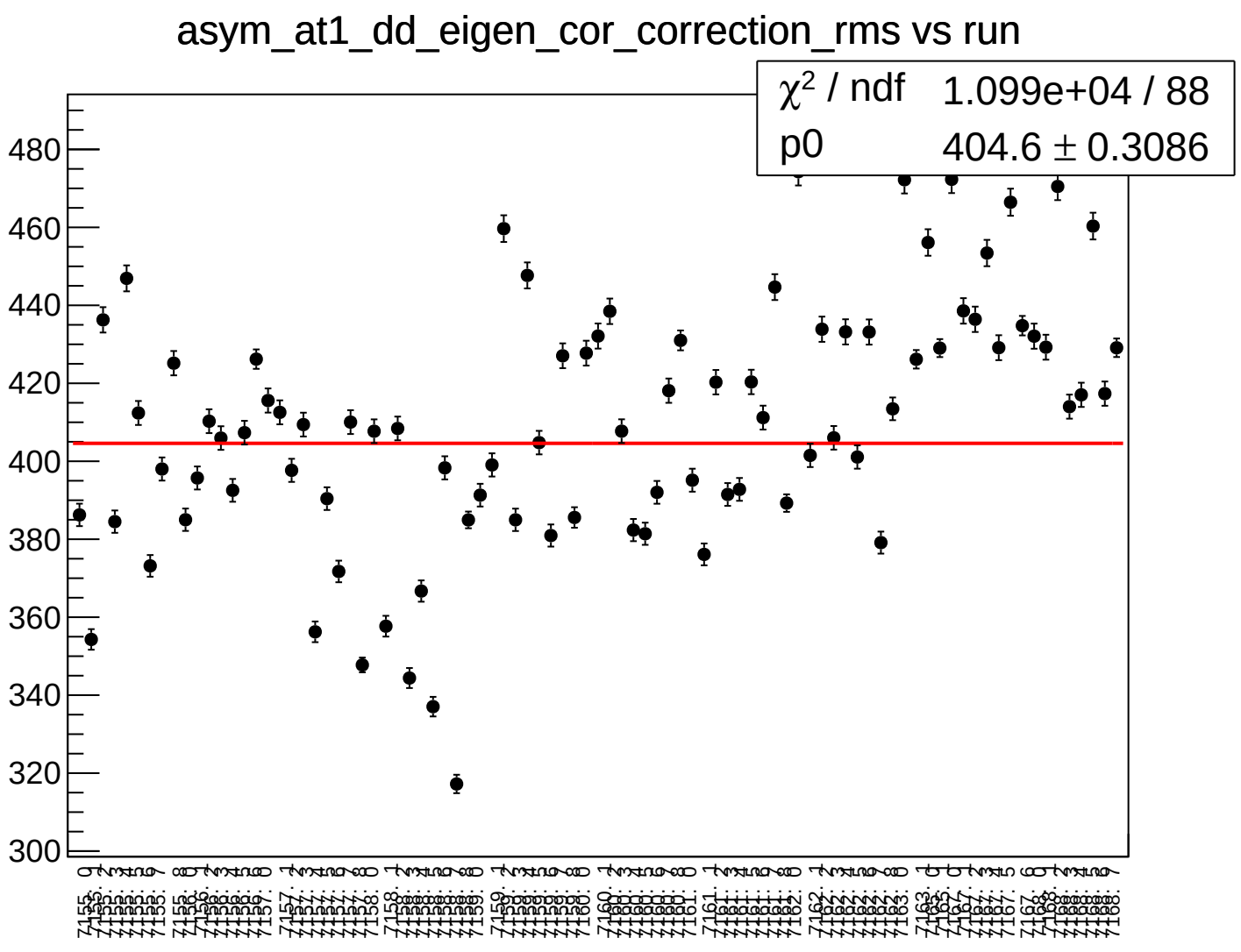

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 87.62 / 88
p0 3281 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −176.2
Std Dev 0
2
1
0
−1
−2

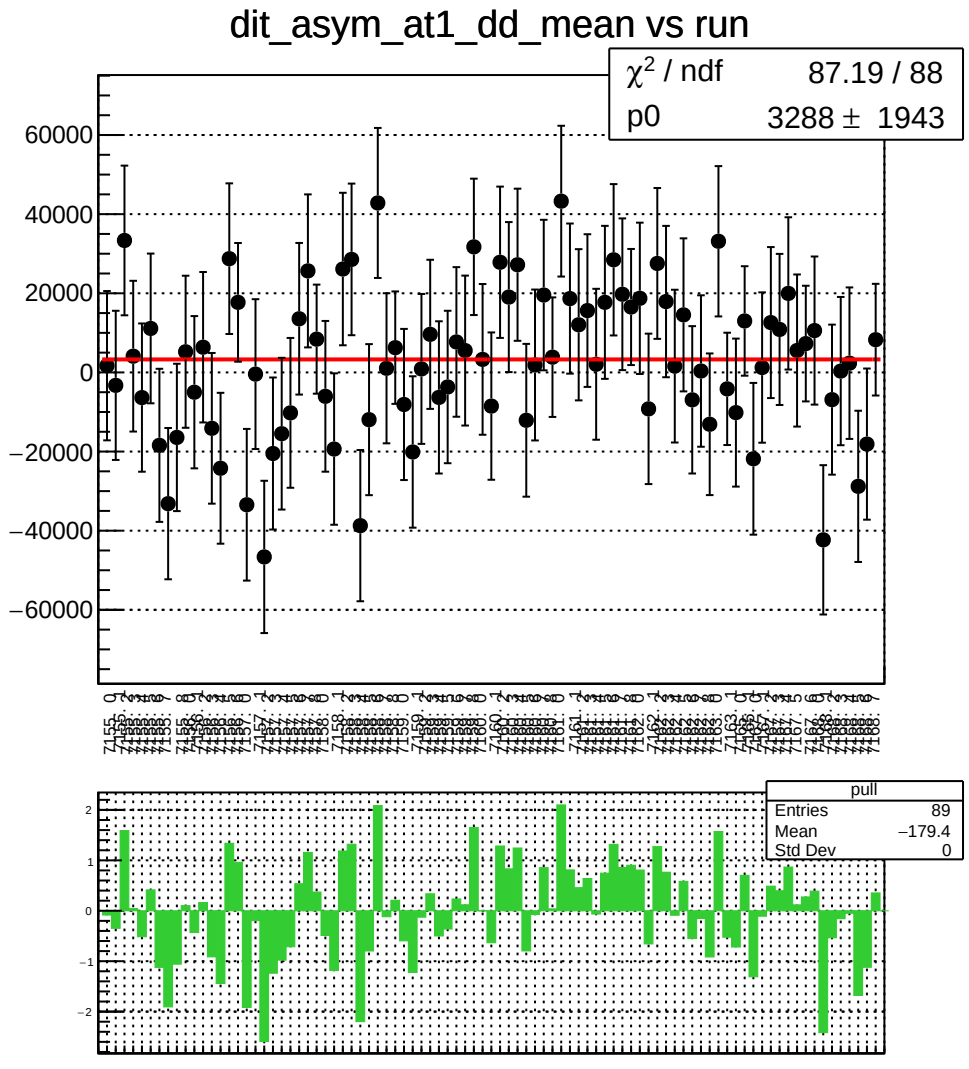

pull1D
Entries 89
Mean −0.01264
Std Dev 0.9921
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

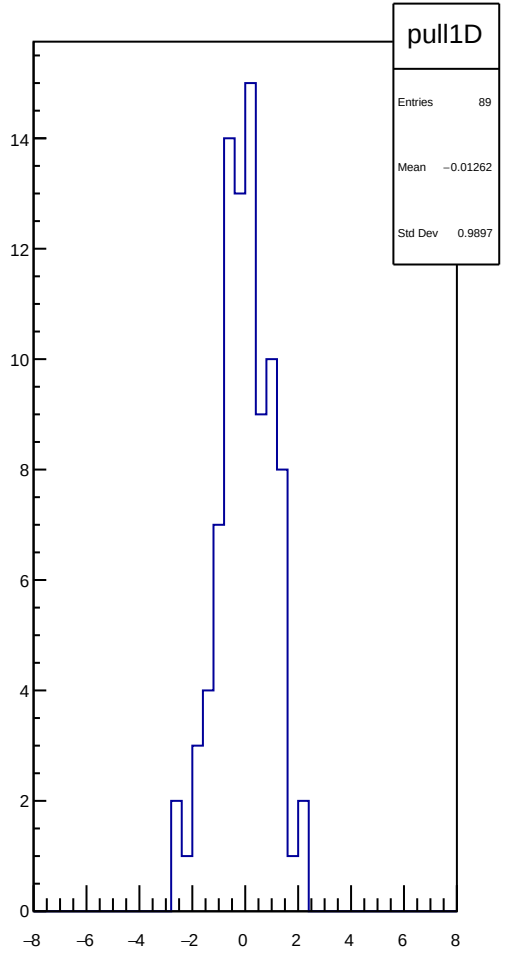

eigen_cor_asym_at1_dd_rms vs run
χ^2 / ndf 116.8 / 88
p0 1807 ± 1.374
1840
1820
1800
1780
1760

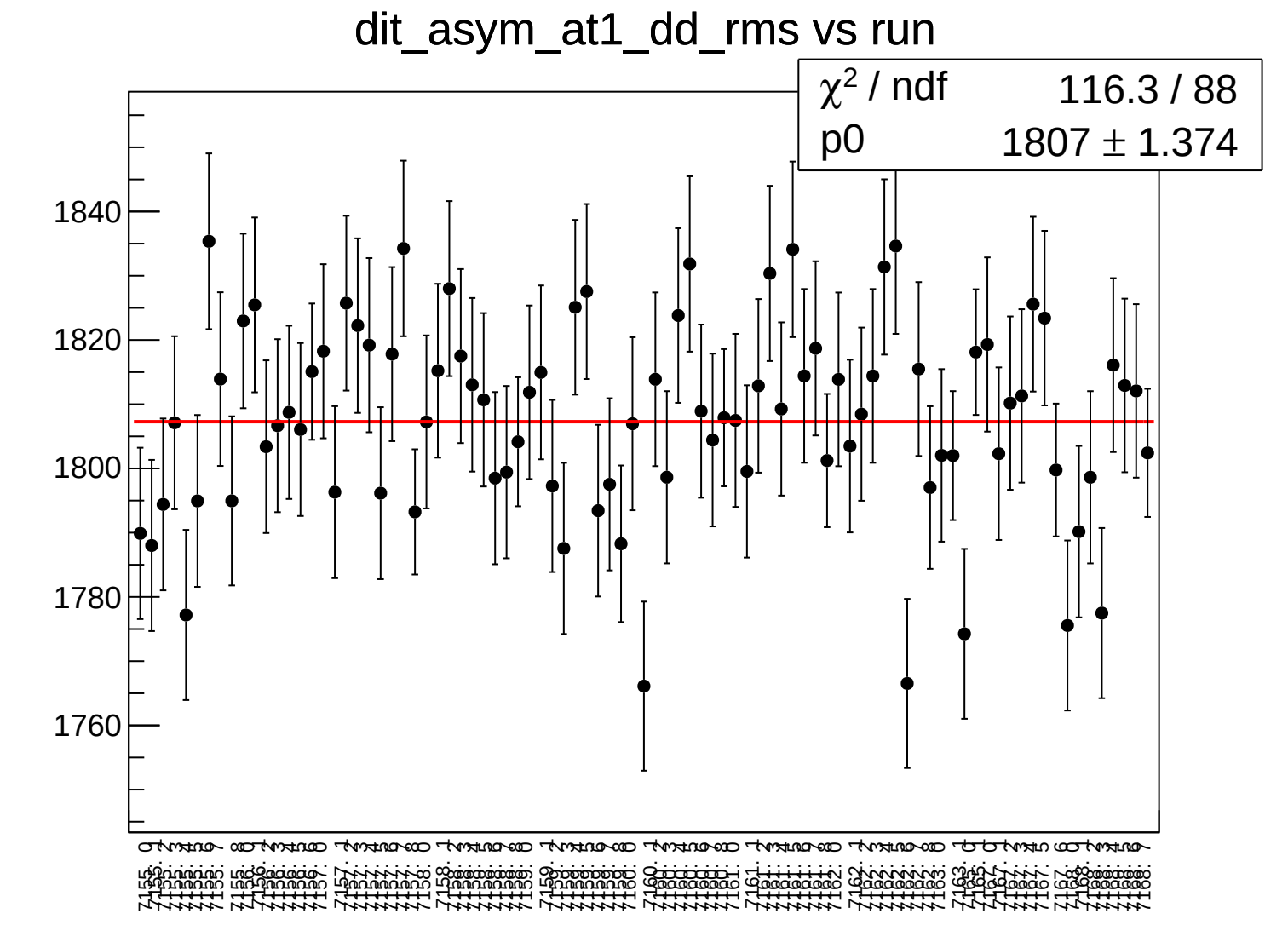

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 67.76 / 88
p0 −370.5 ± 436.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −81.56
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

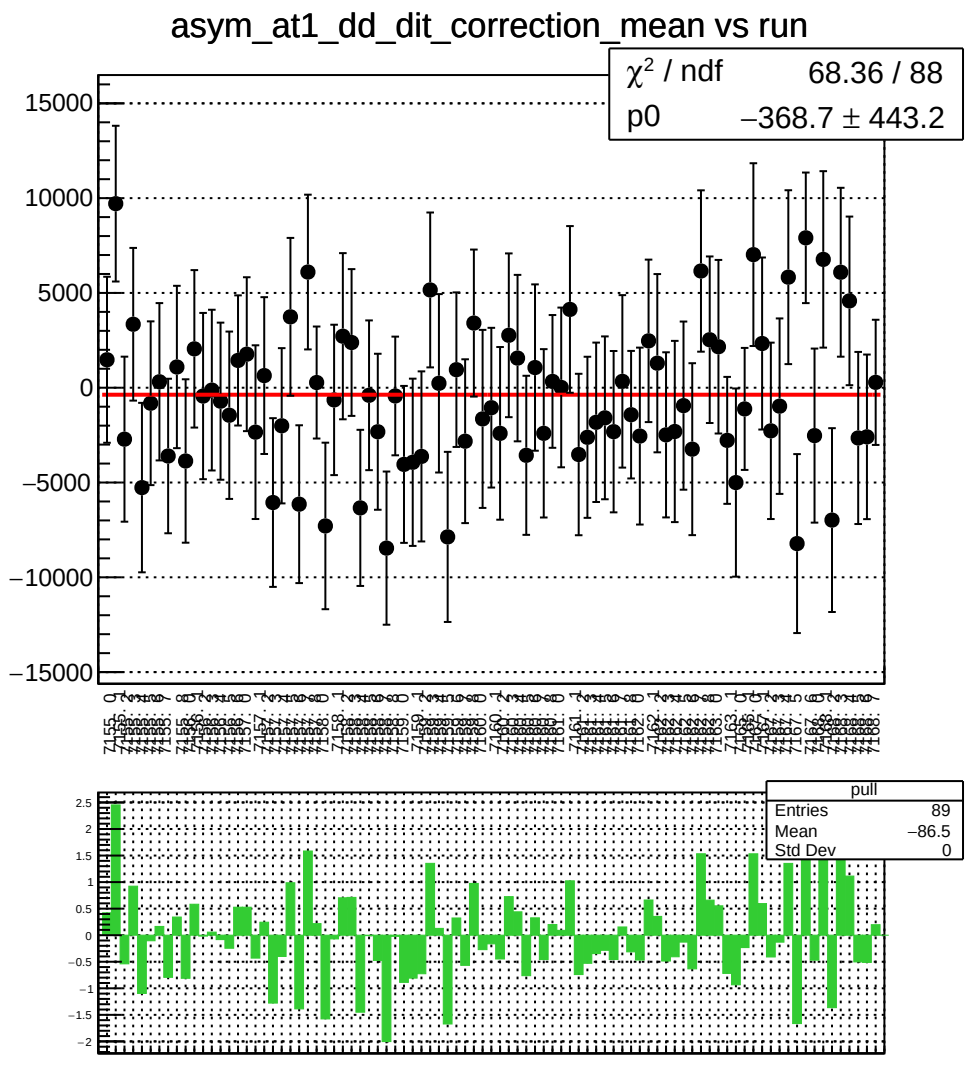

pull1D
Entries 89
Mean −0.01281
Std Dev 0.8724
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

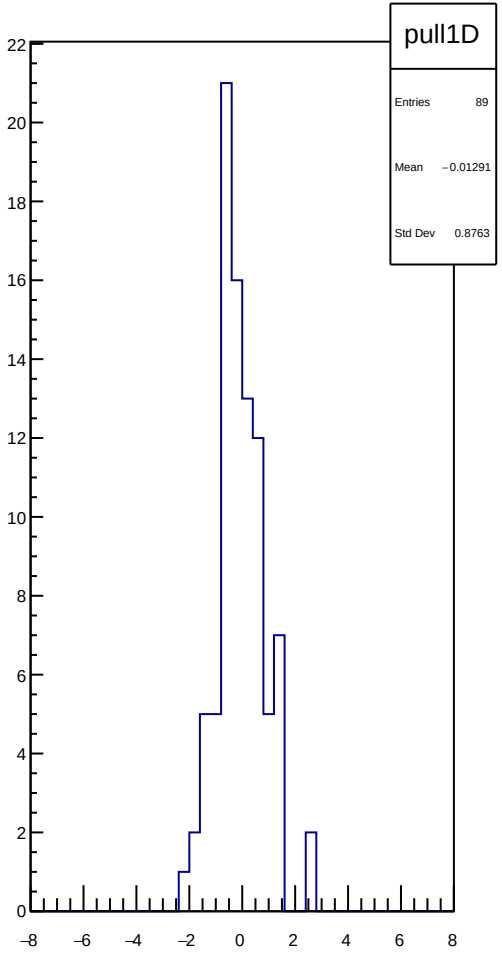

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.099e+04 / 88
p0 404.6 ± 0.3086
480
460
440
420
400
380
360
340
320
300

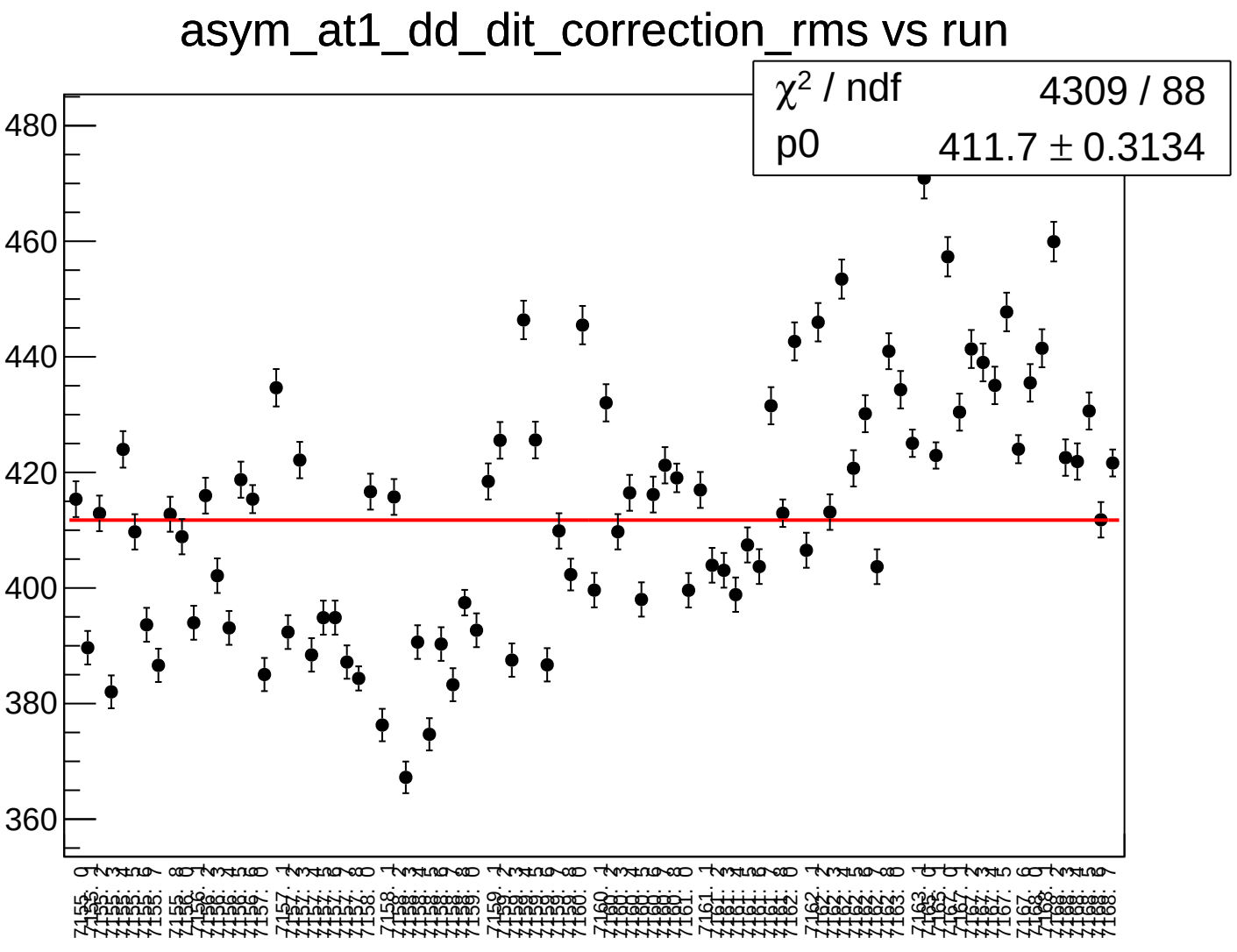

dit_asym_at1_dd_mean vs run
χ² / ndf 87.19 / 88
p0 3288 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −179.4
Std Dev 0
2
1
0
−1
−2

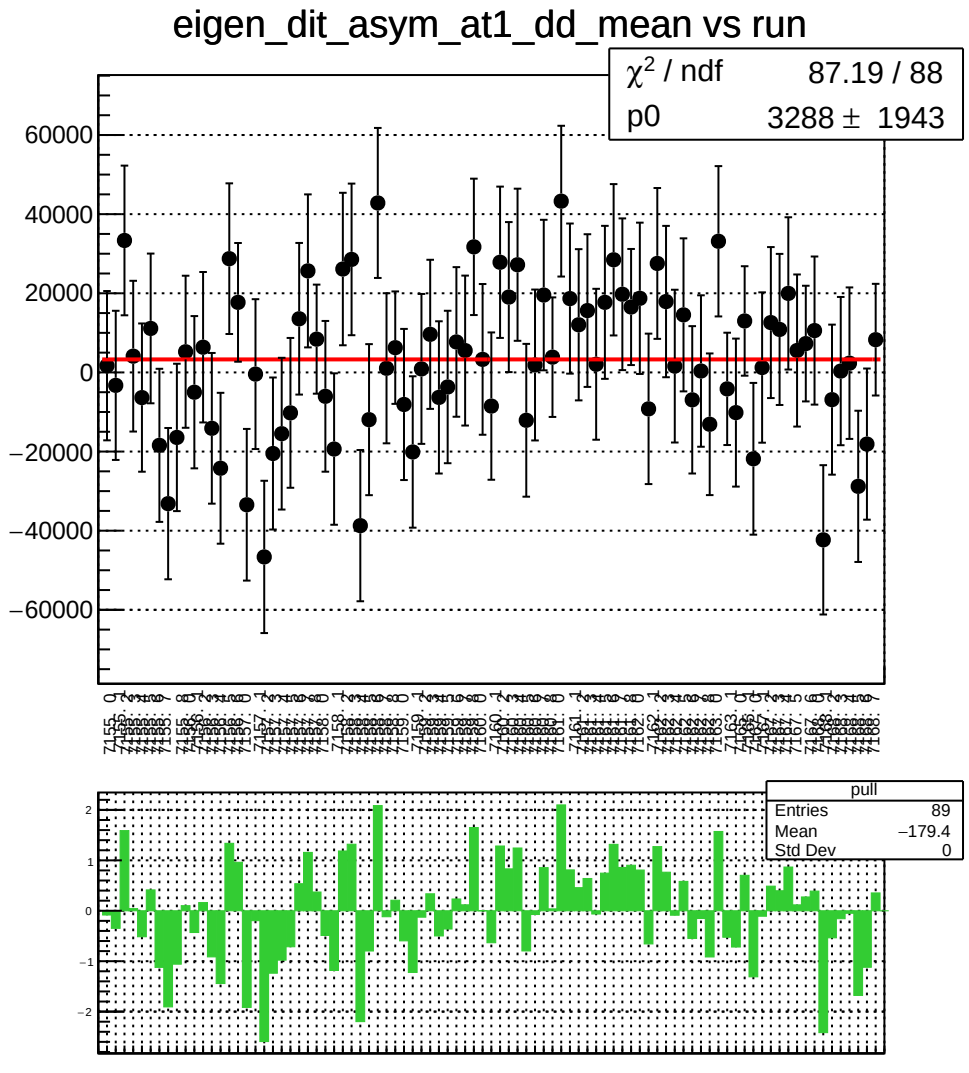

pull1D
Entries 89
Mean −0.01262
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

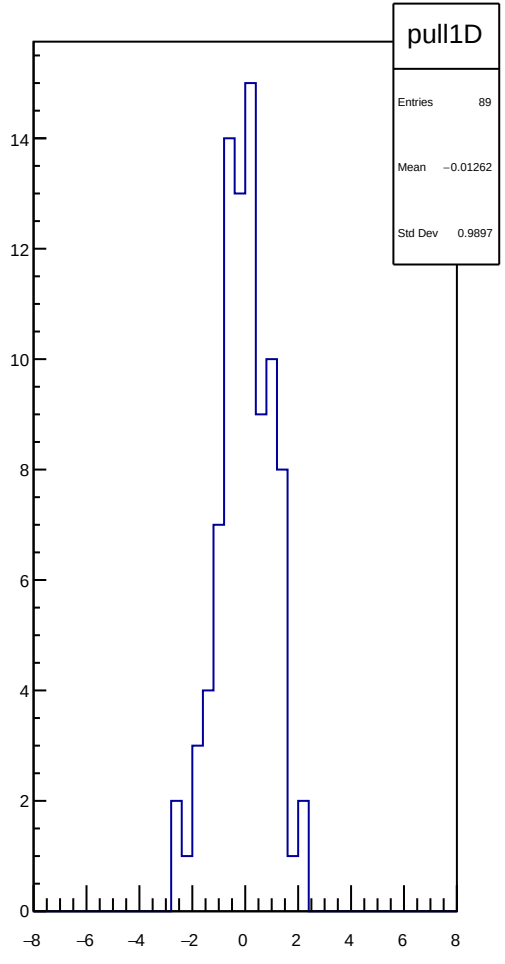

dit_asym_at1_dd_rms vs run
χ^2 / ndf 116.3 / 88
p0 1807 ± 1.374
1840
1820
1800
1780
1760

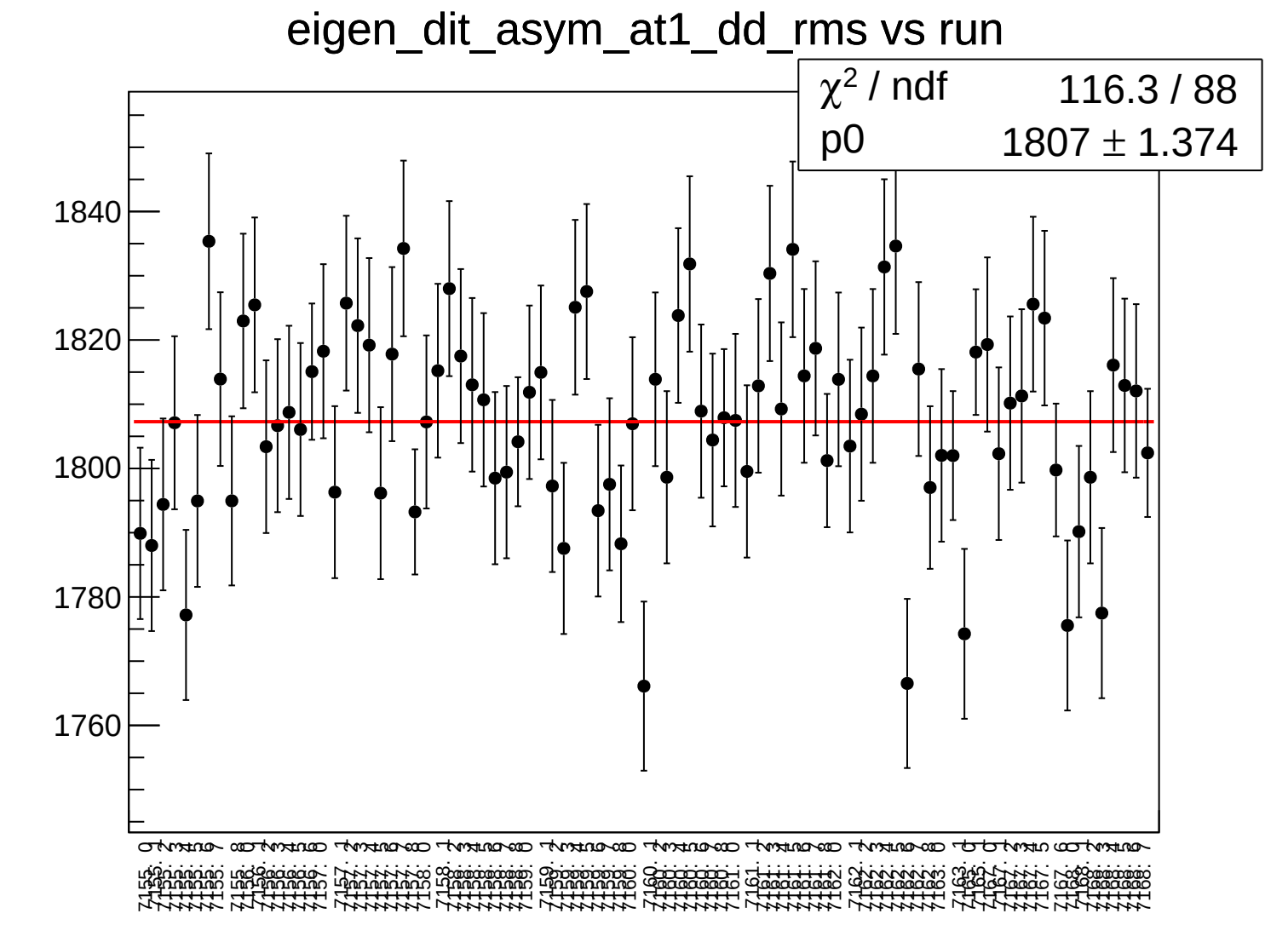

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 68.36 / 88
p0 −368.7 ± 443.2
pull
Entries 89
Mean −86.5
Std Dev 0

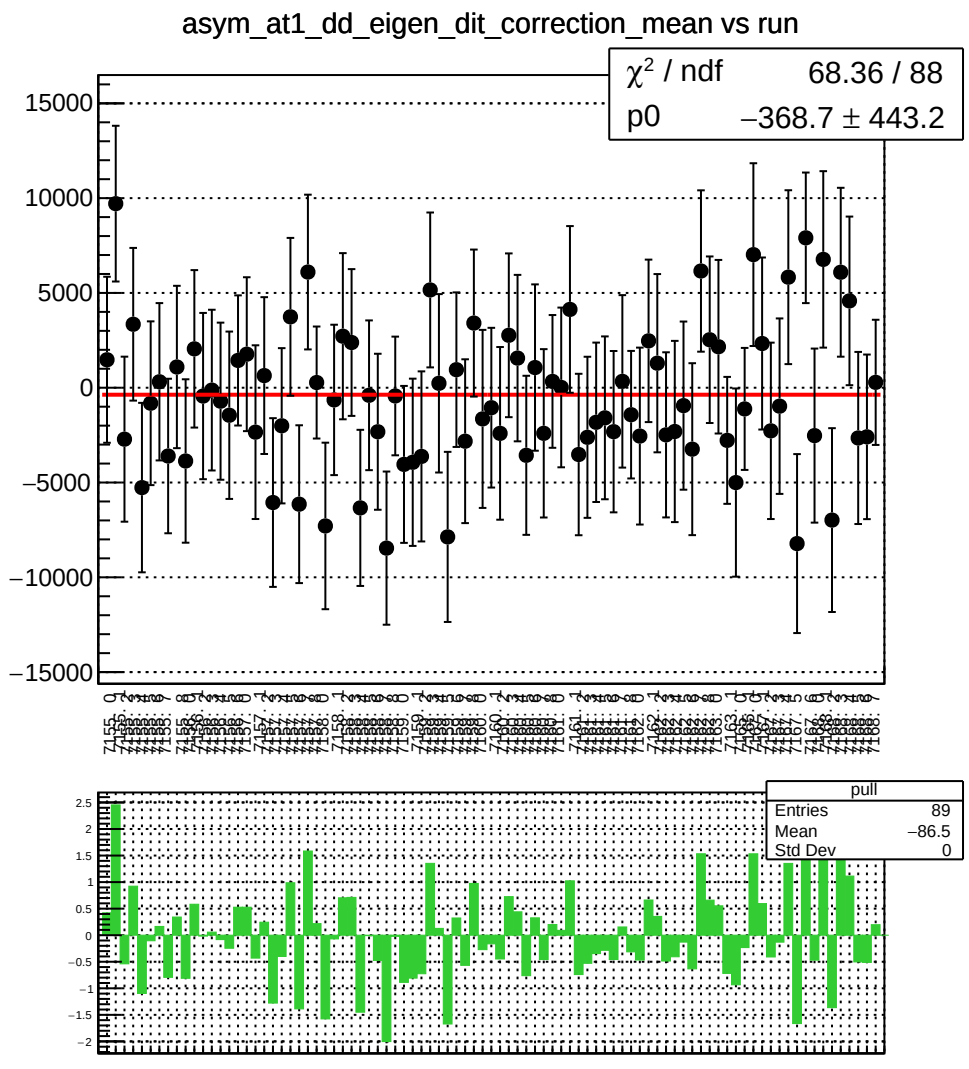

pull1D
Entries 89
Mean −0.01291
Std Dev 0.8763

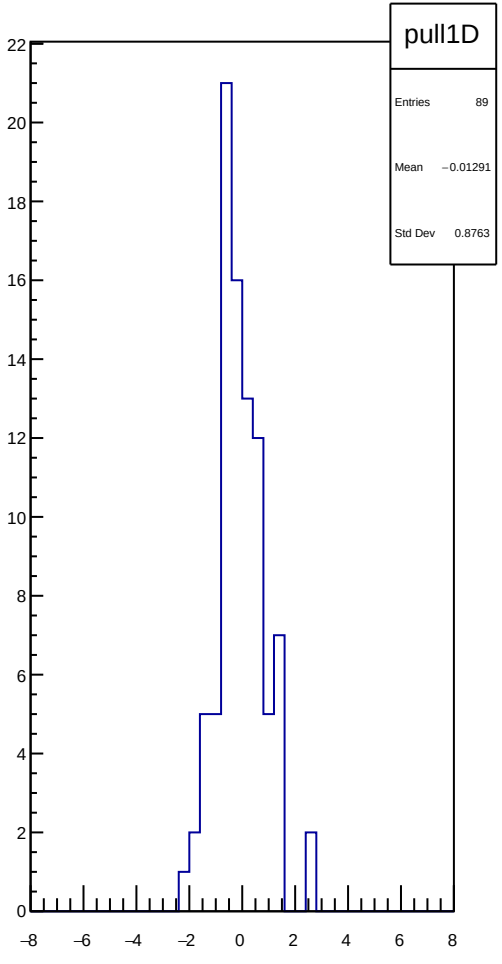

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 4309 / 88
p0 411.7 ± 0.3134
480
460
440
420
400
380
360

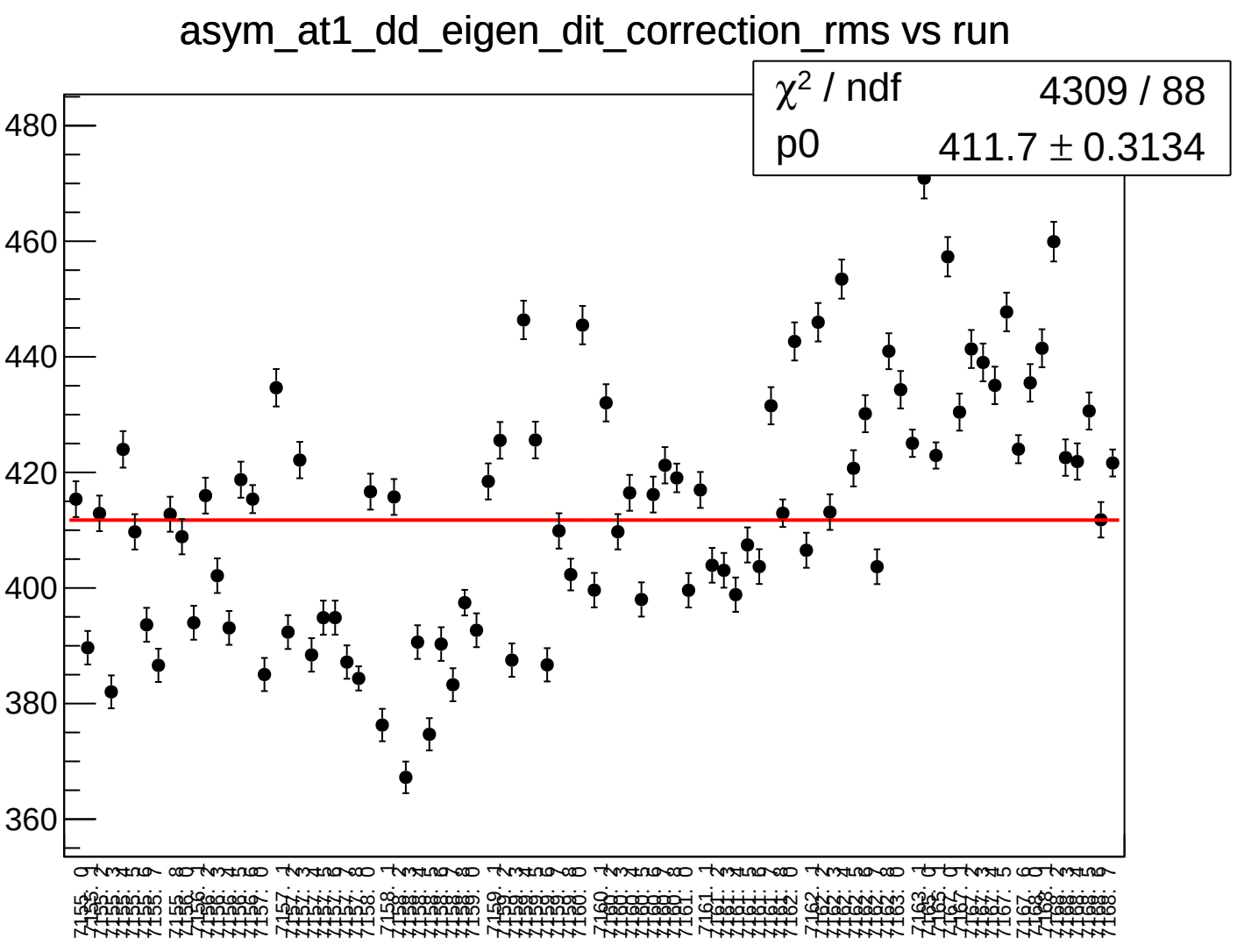

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 87.19 / 88
p0 3288 ± 1943
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −179.4
Std Dev 0
2
1
0
−1
−2

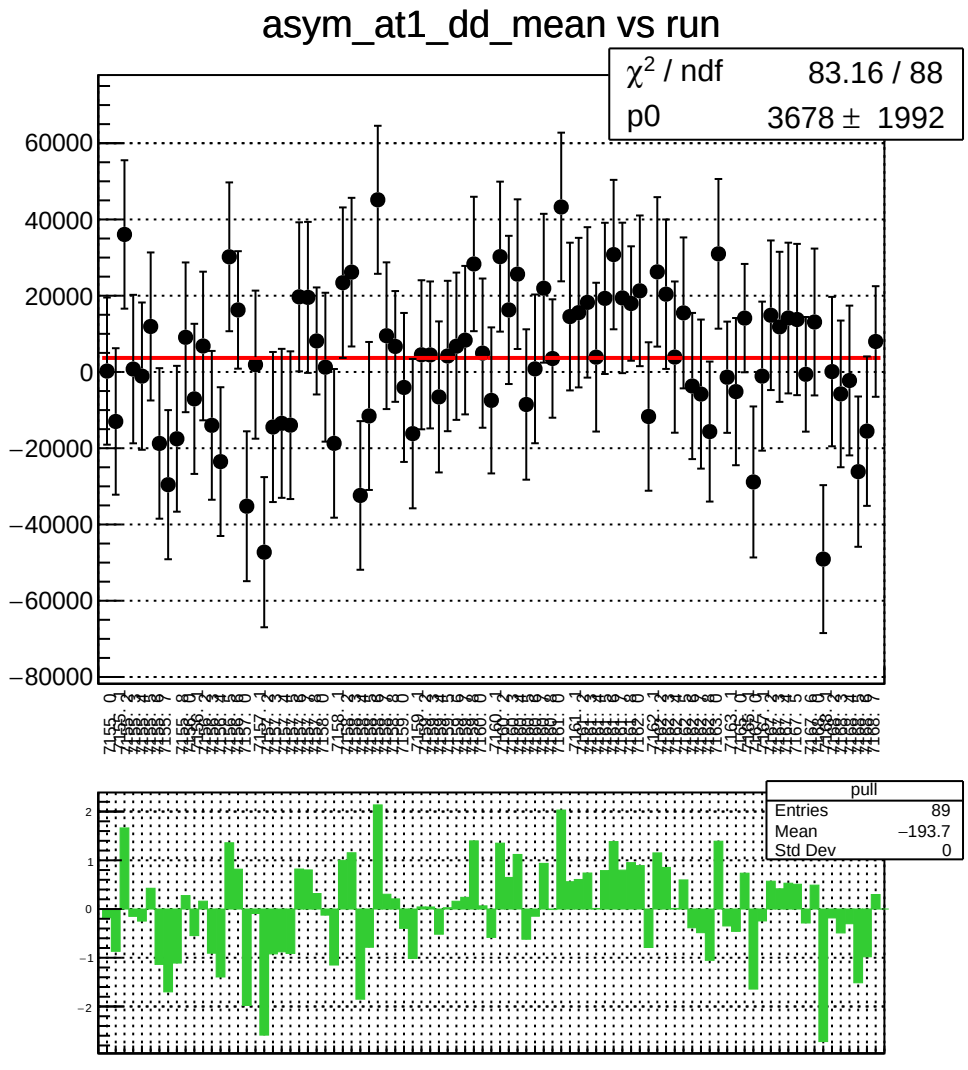

pull1D
Entries 89
Mean −0.01262
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

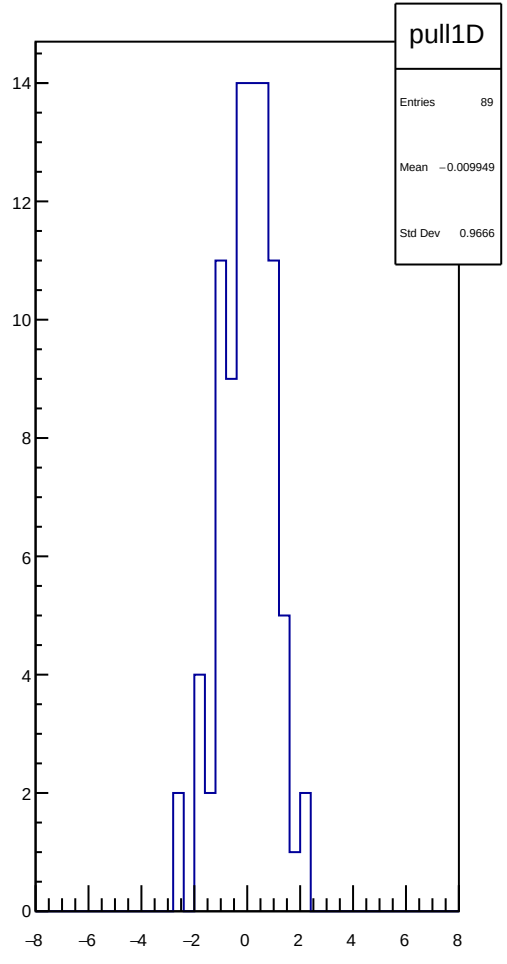

eigen_dit_asym_at1_dd_rms vs run
χ^2 / ndf 116.3 / 88
p0 1807 ± 1.374
1840
1820
1800
1780
1760

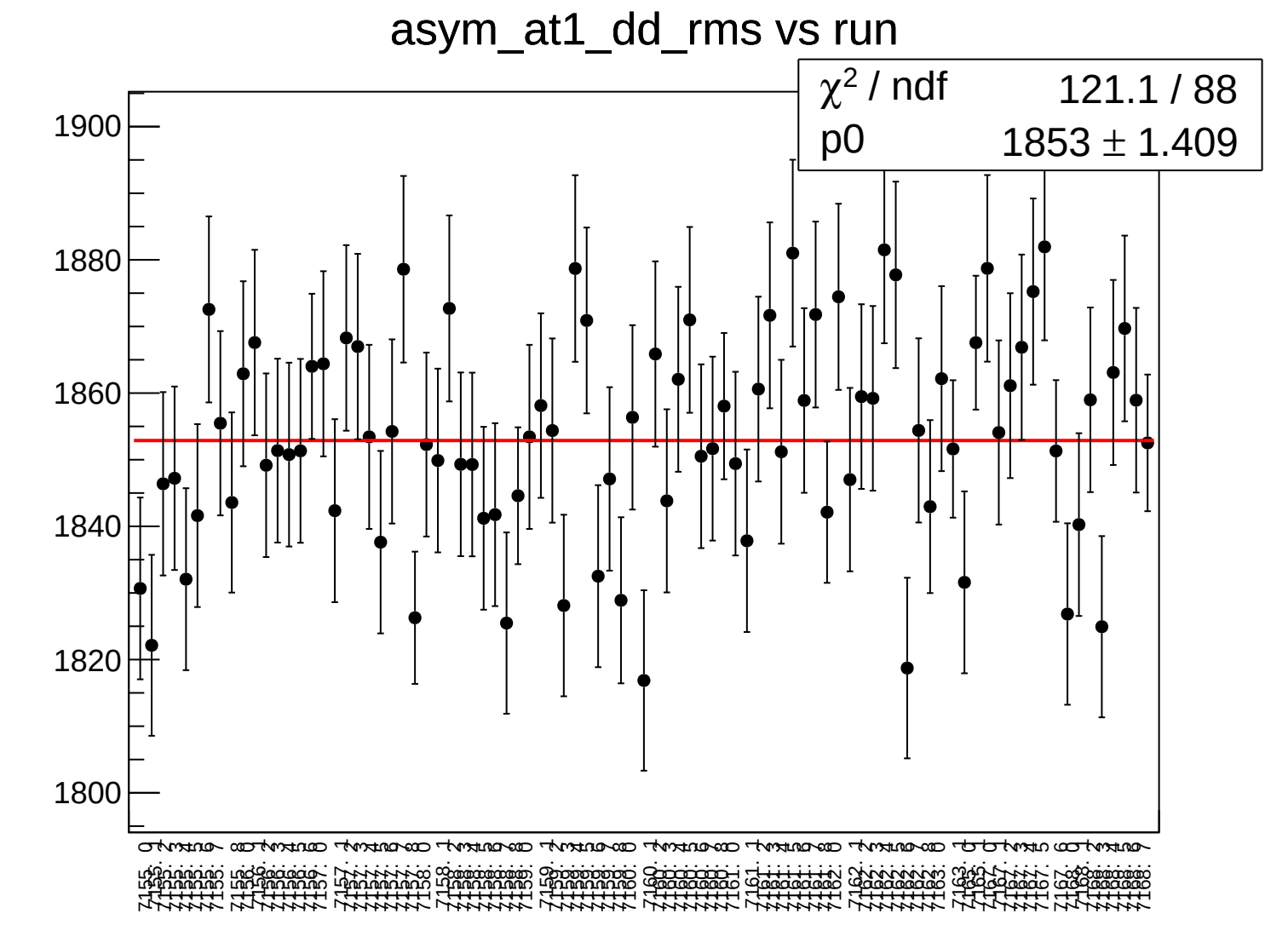

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.36 / 88
p0 −368.7 ± 443.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −86.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

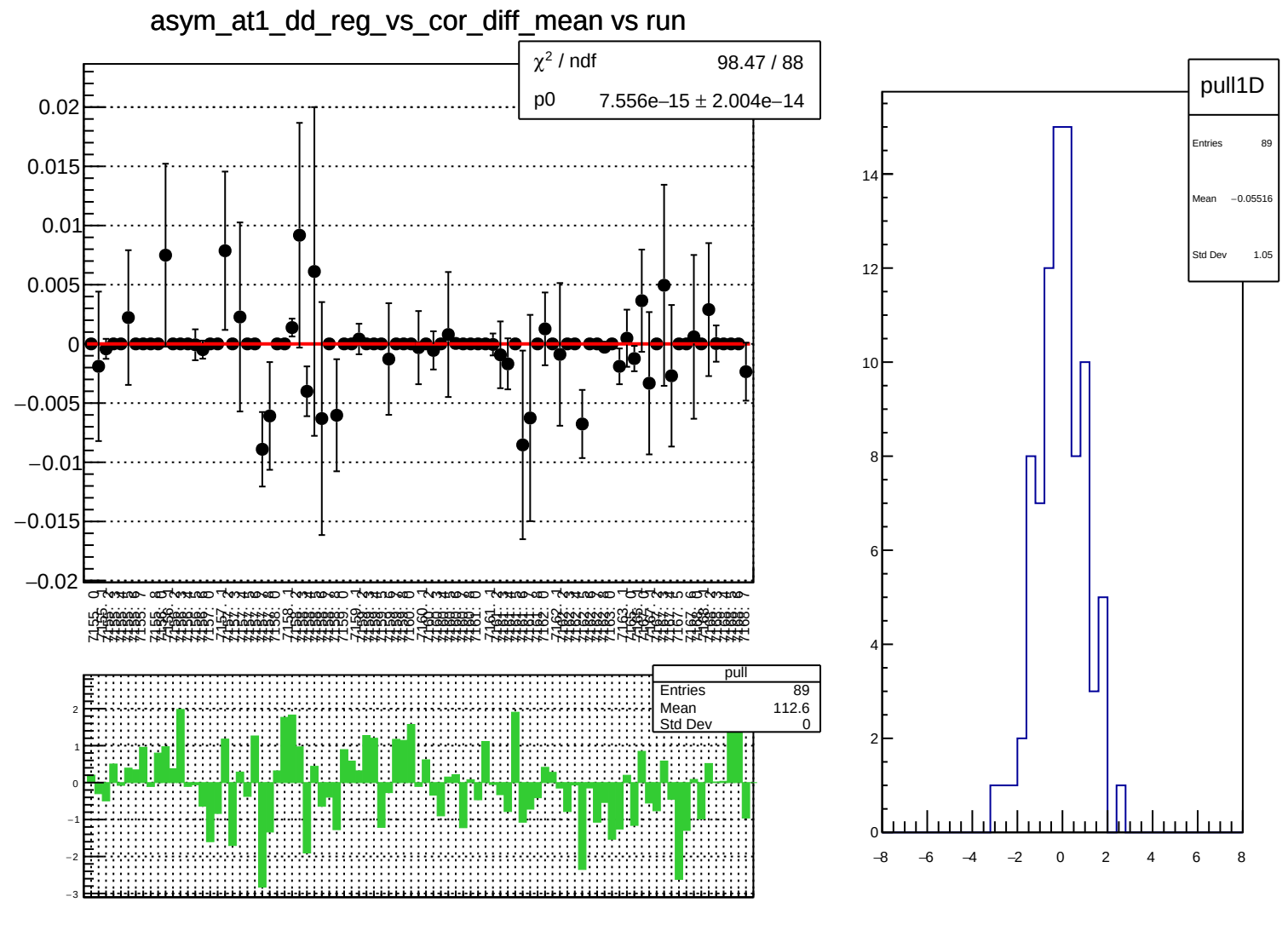

pull1D
Entries 89
Mean −0.01291
Std Dev 0.8763
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

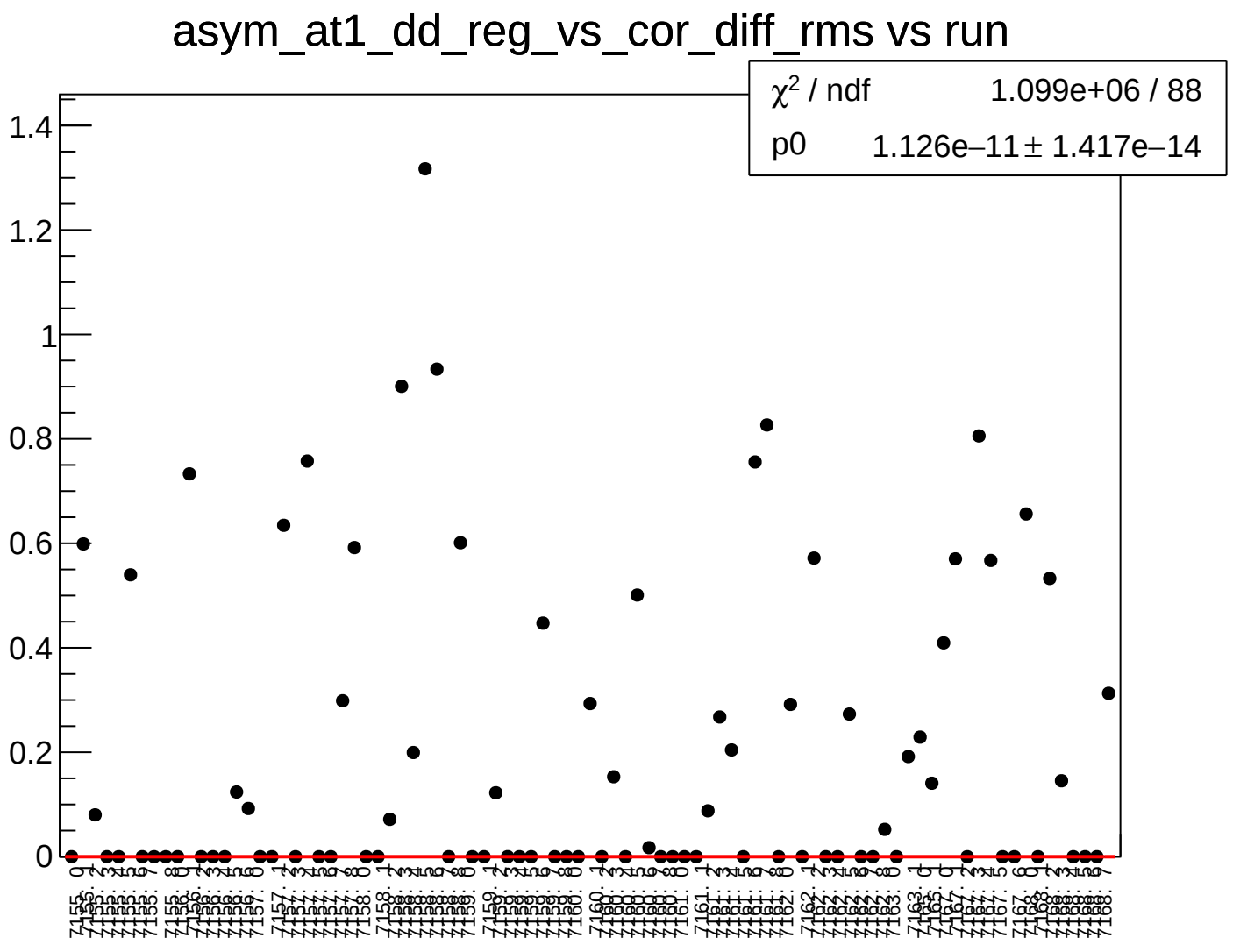

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4309 / 88
p0 411.7 ± 0.3134
480
460
440
420
400
380
360

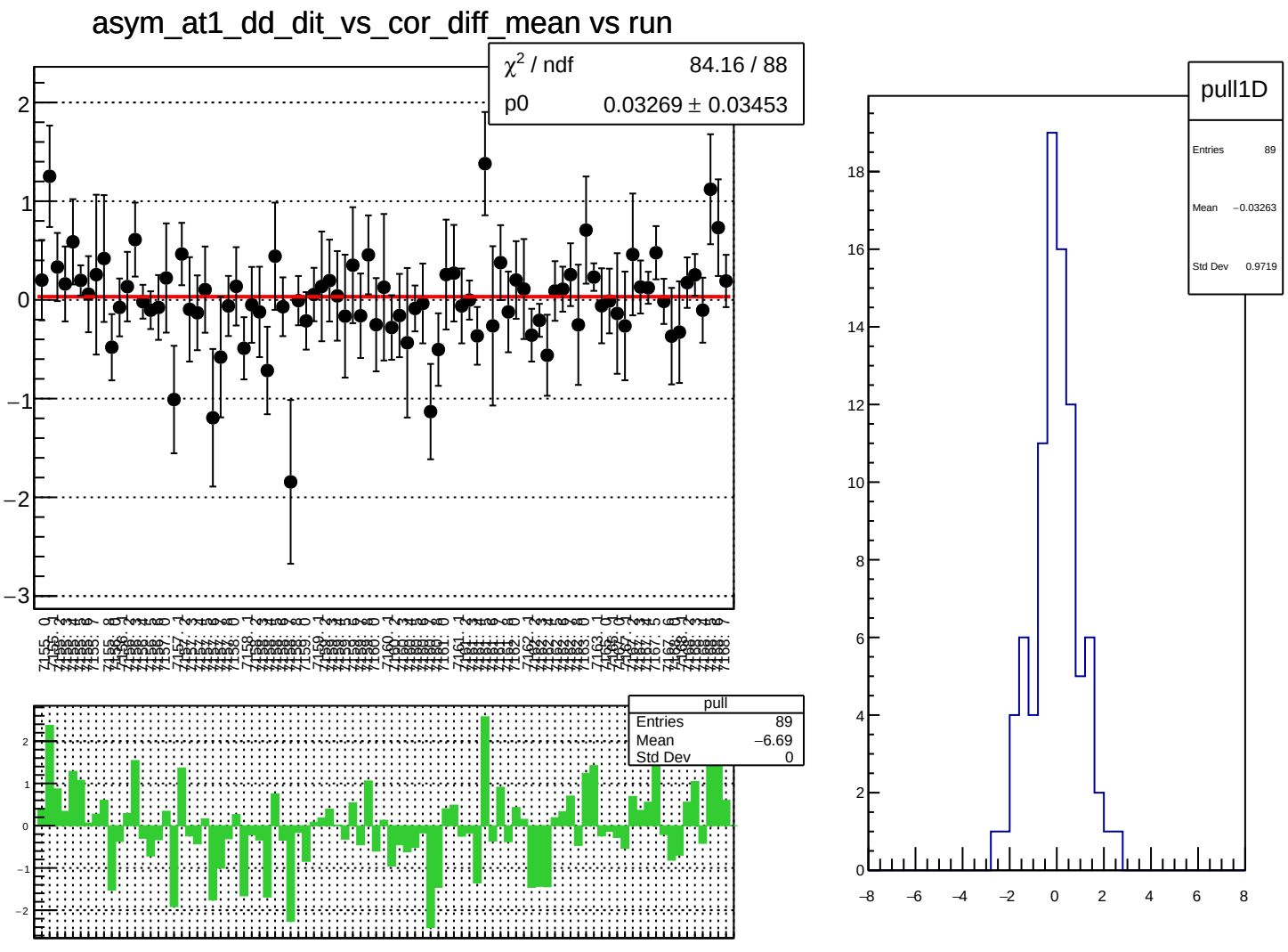

asym_at1_dd_mean vs run
χ² / ndf 83.16 / 88
p0 3678 ± 1992
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean −193.7
Std Dev 0
2
1
0
−1
−2

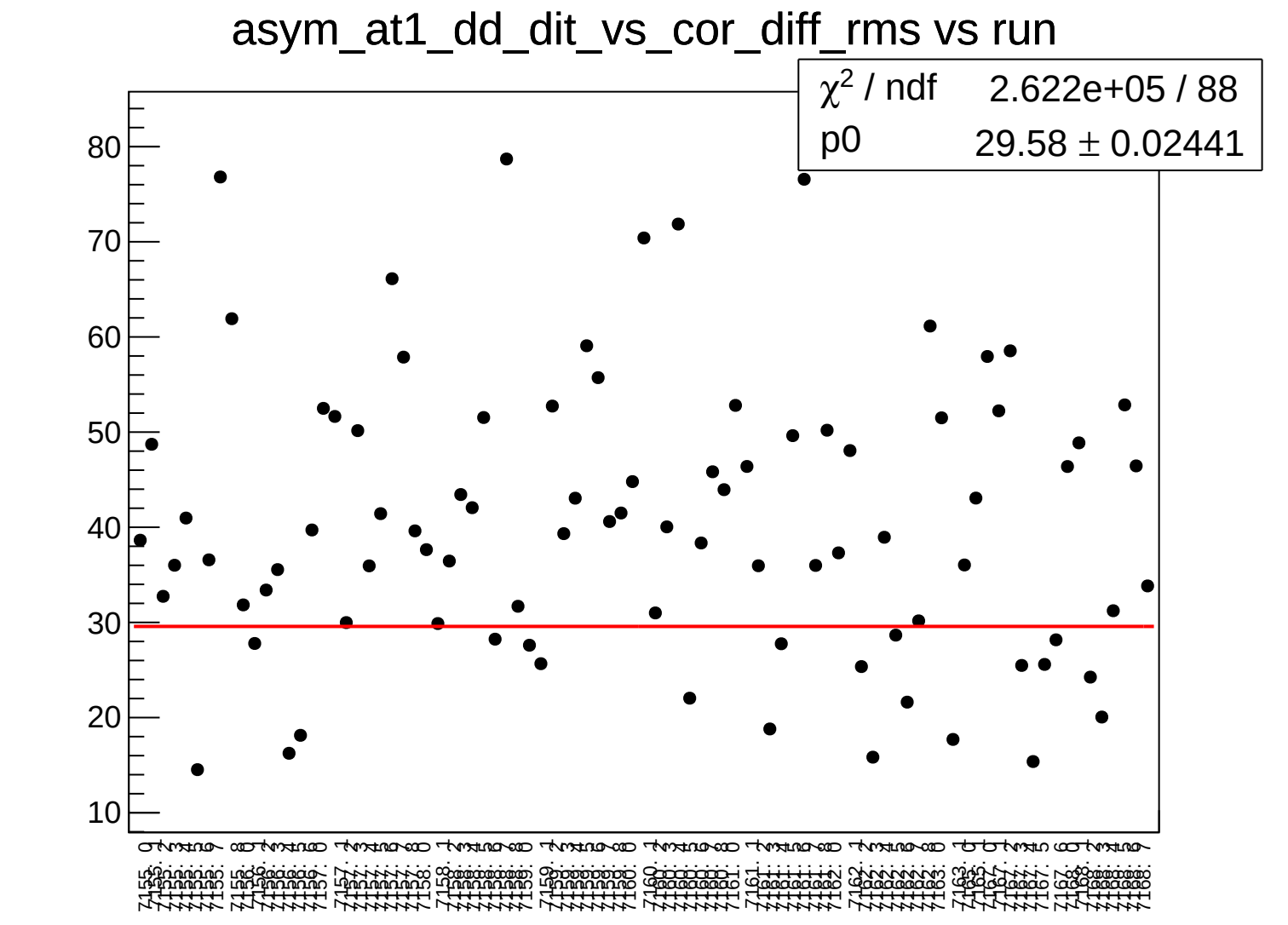

pull1D
Entries 89
Mean −0.009949
Std Dev 0.9666
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

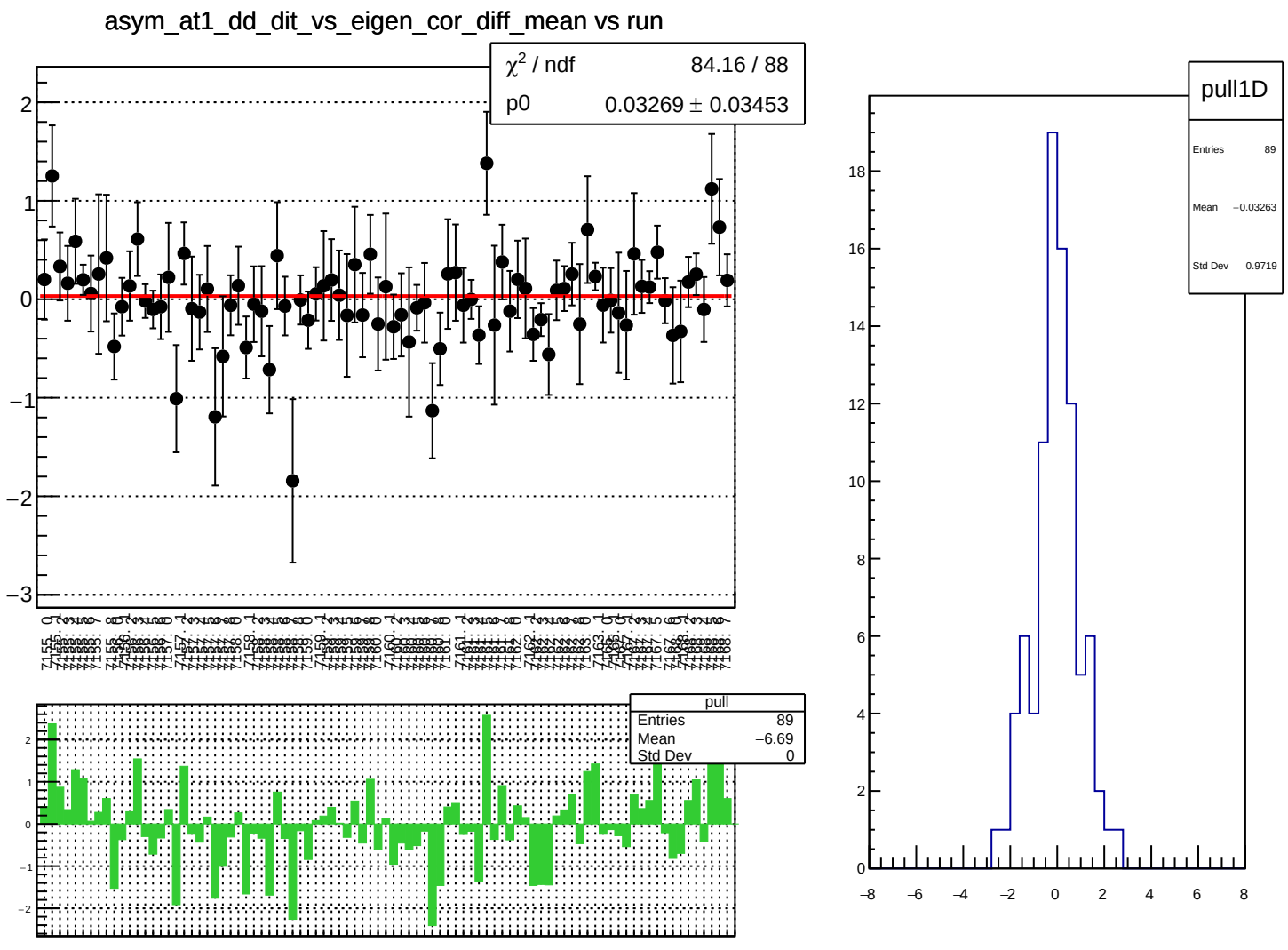

asym_at1_dd_rms vs run
χ^2 / ndf 121.1 / 88
p0 1853 ± 1.409
1900
1880
1860
1840
1820
1800

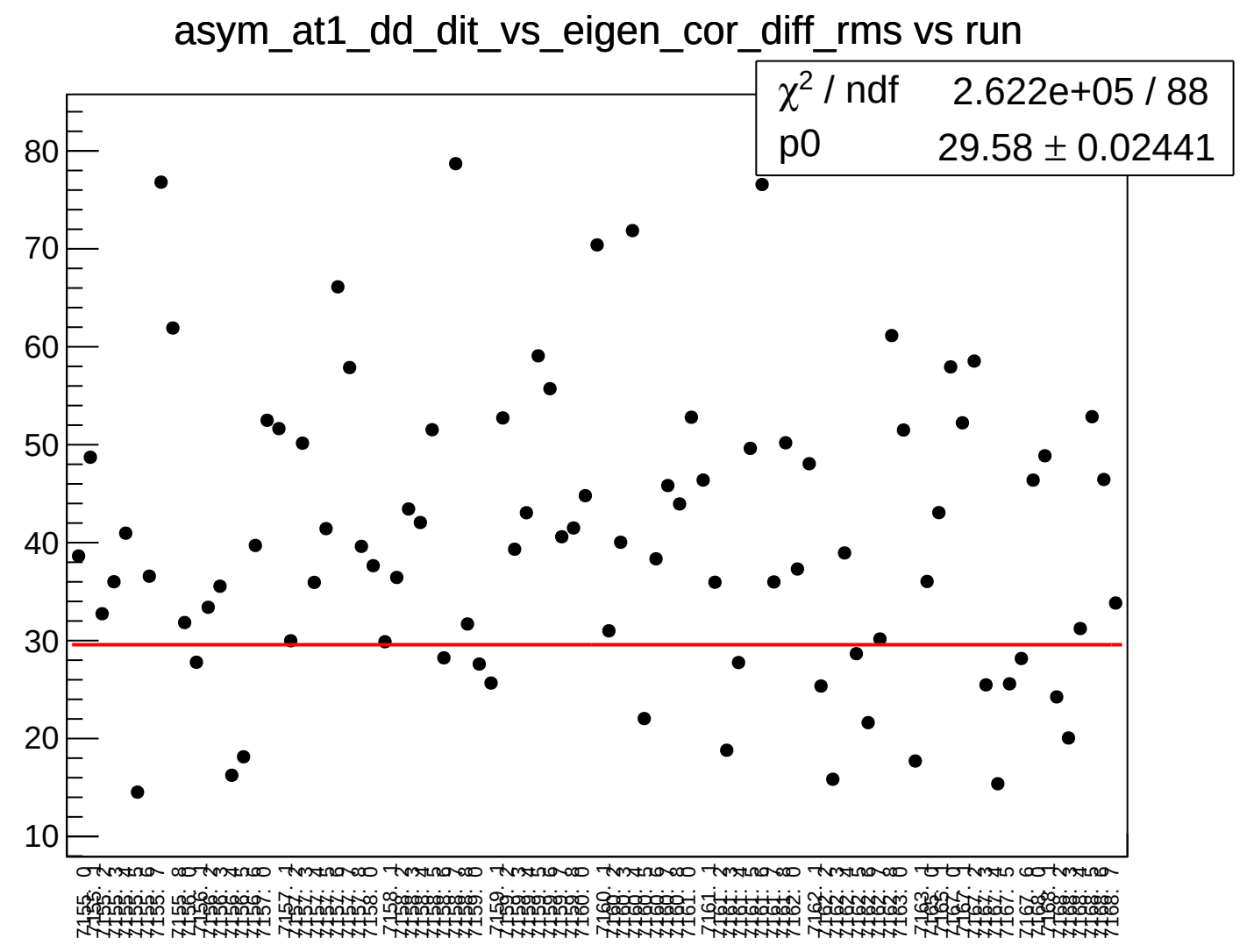

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.47 / 88
p0 7.556e−15 ± 2.004e−14
pull
Entries 89
Mean 112.6
Std Dev 0
pull1D
Entries 89
Mean −0.05516
Std Dev 1.05

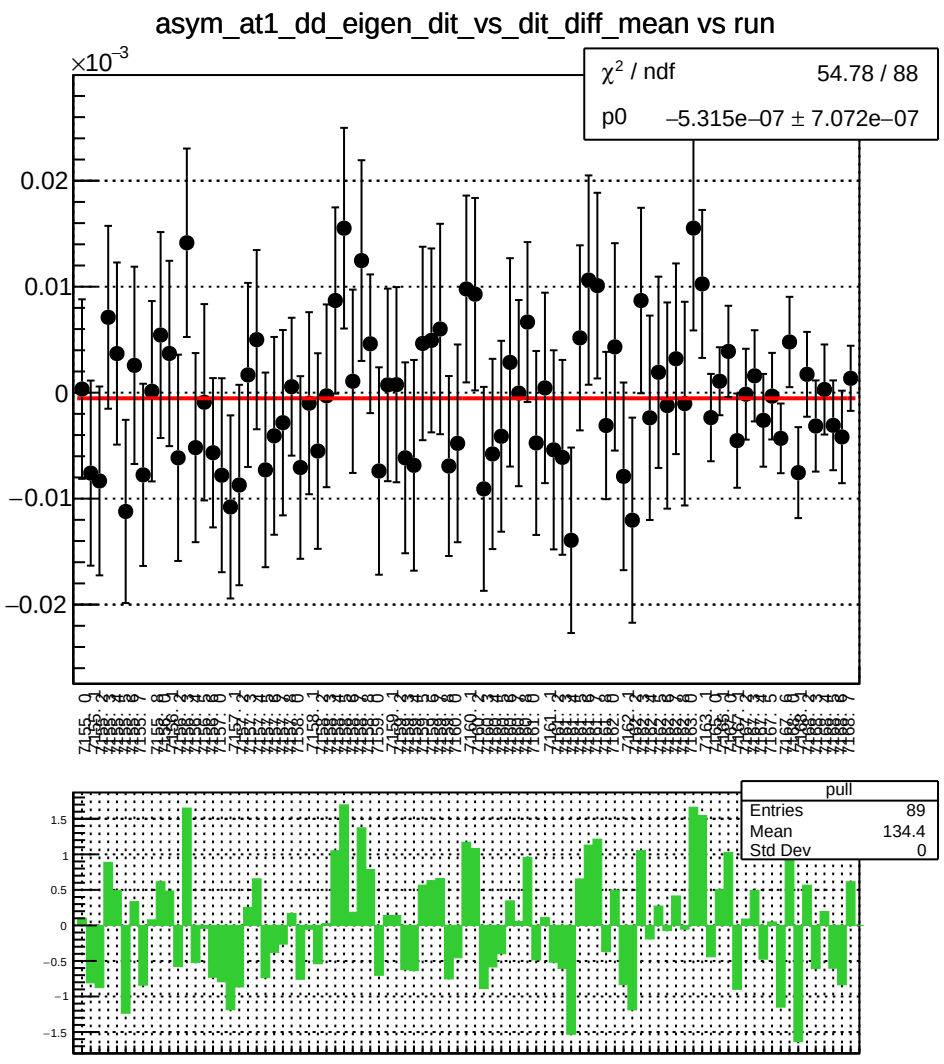

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.099e+06 / 88
p0 1.126e−11 ± 1.417e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

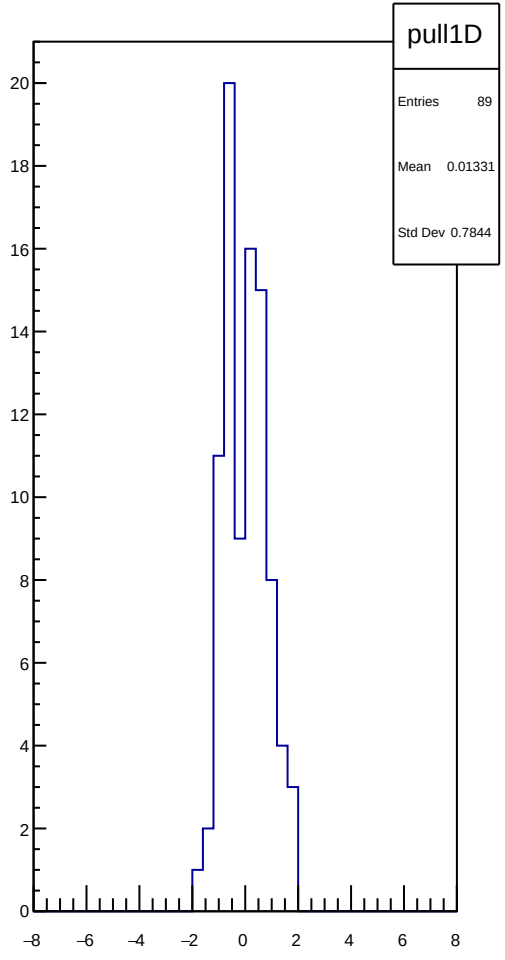

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 84.16 / 88
p0 0.03269 ± 0.03453
pull
Entries 89
Mean −6.69
Std Dev 0
pull1D
Entries 89
Mean −0.03263
Std Dev 0.9719

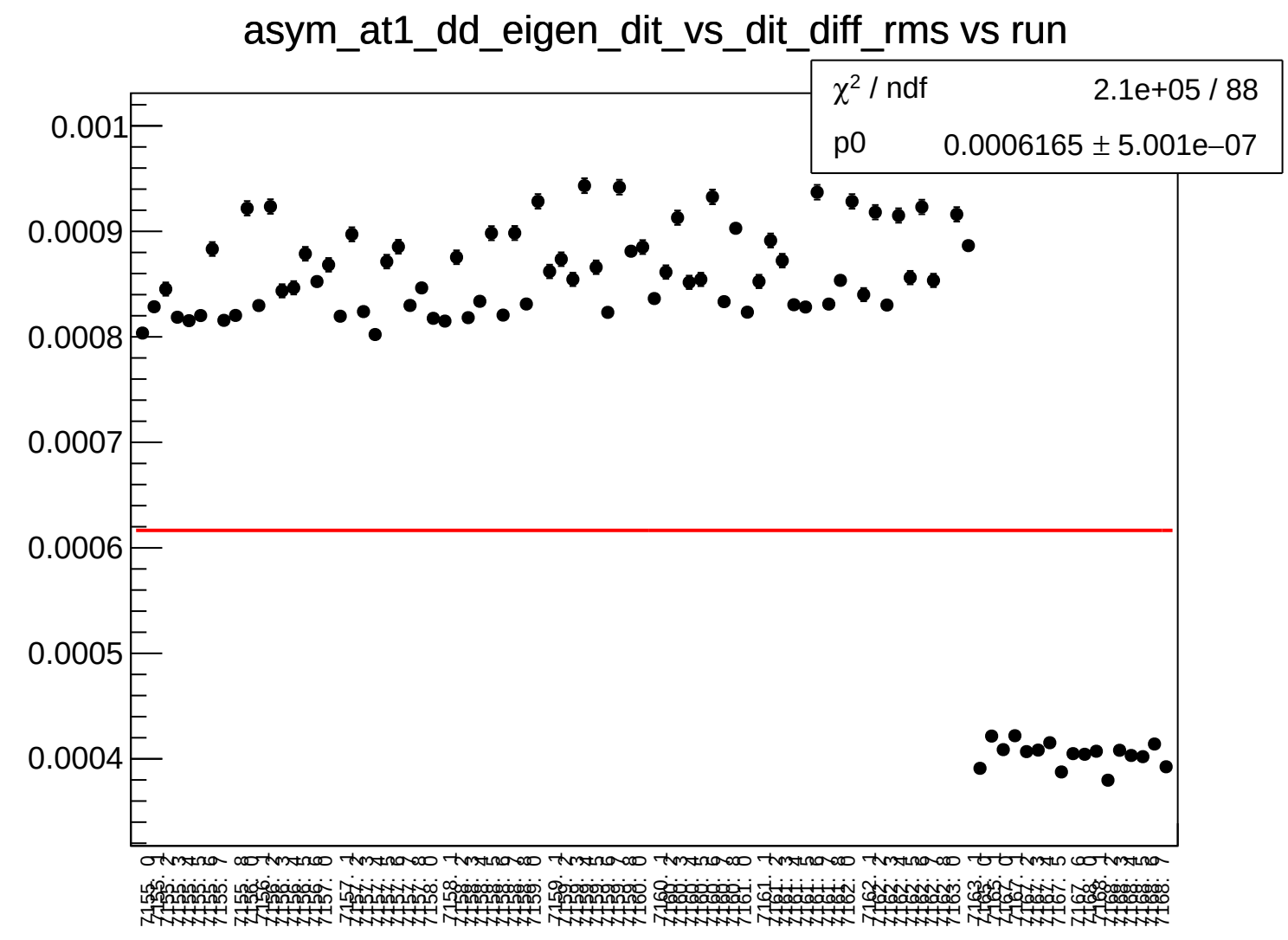

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.622e+05 / 88
p0 29.58 ± 0.02441
80
70
60
50
40
30
20
10

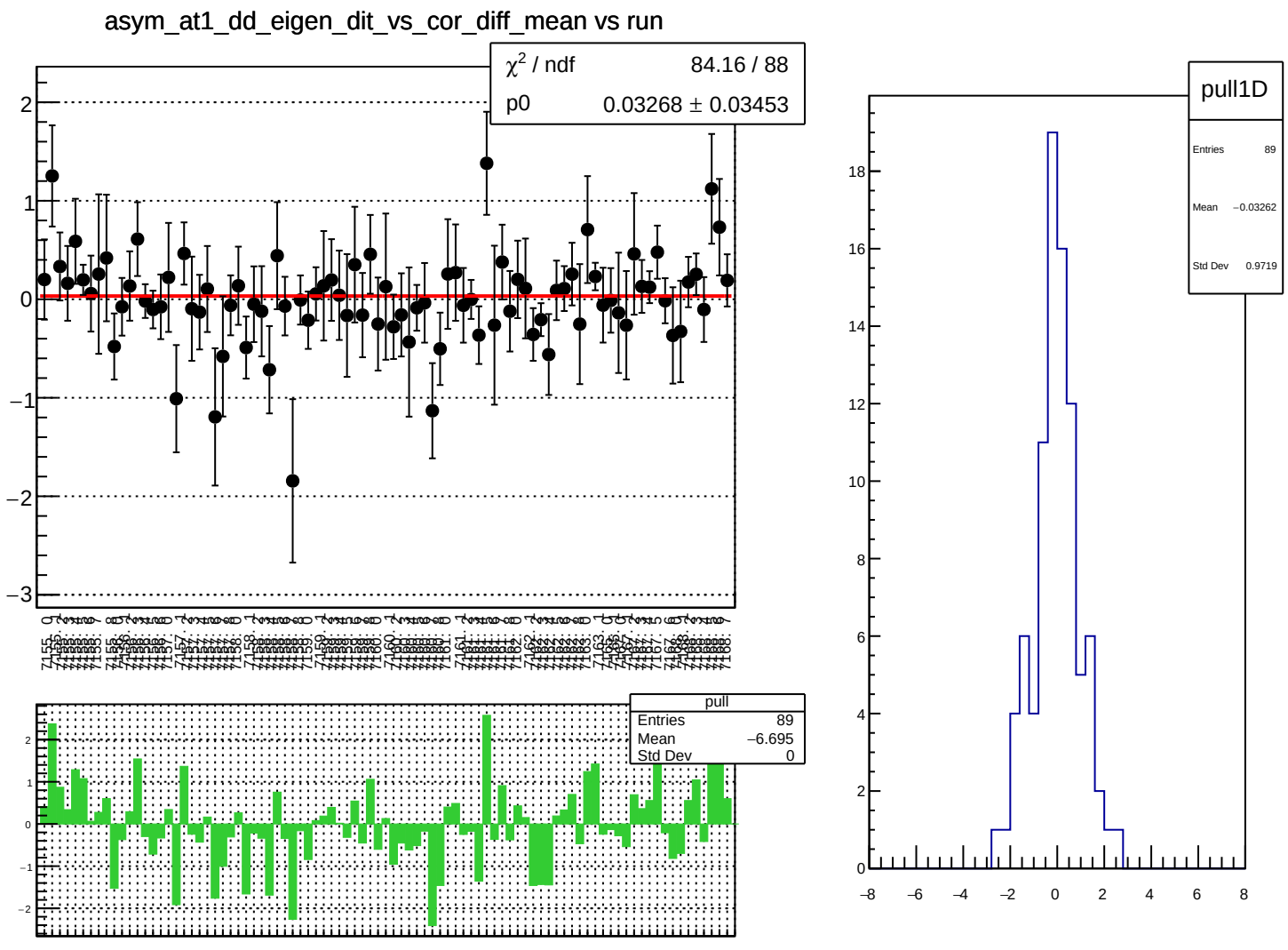

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.16 / 88
p0 0.03269 ± 0.03453
pull
Entries 89
Mean −6.69
Std Dev 0
pull1D
Entries 89
Mean −0.03263
Std Dev 0.9719

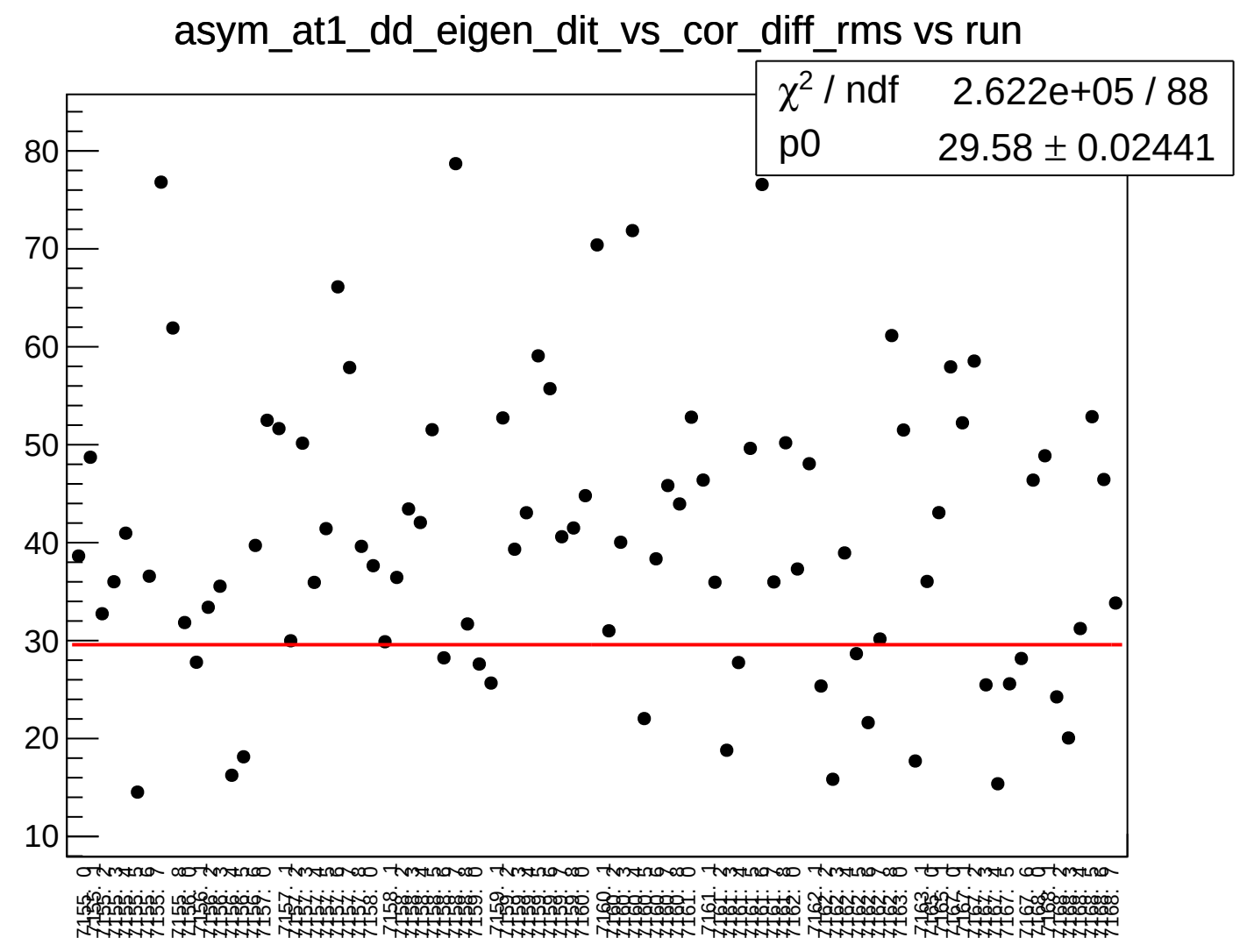

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.622e+05 / 88
p0 29.58 ± 0.02441
80
70
60
50
40
30
20
10

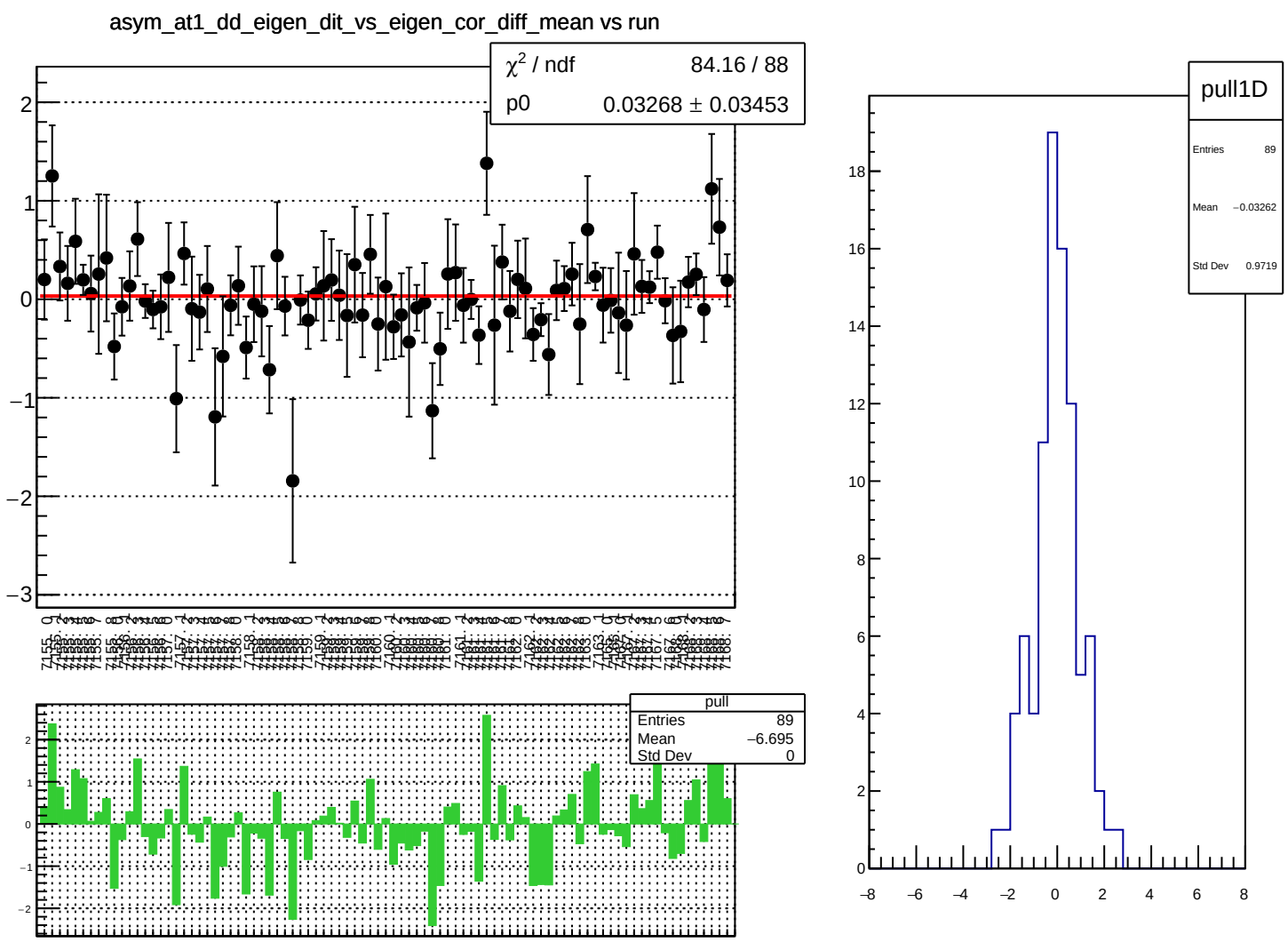

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.78 / 88
p0 −5.315e−07 ± 7.072e−07
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 134.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

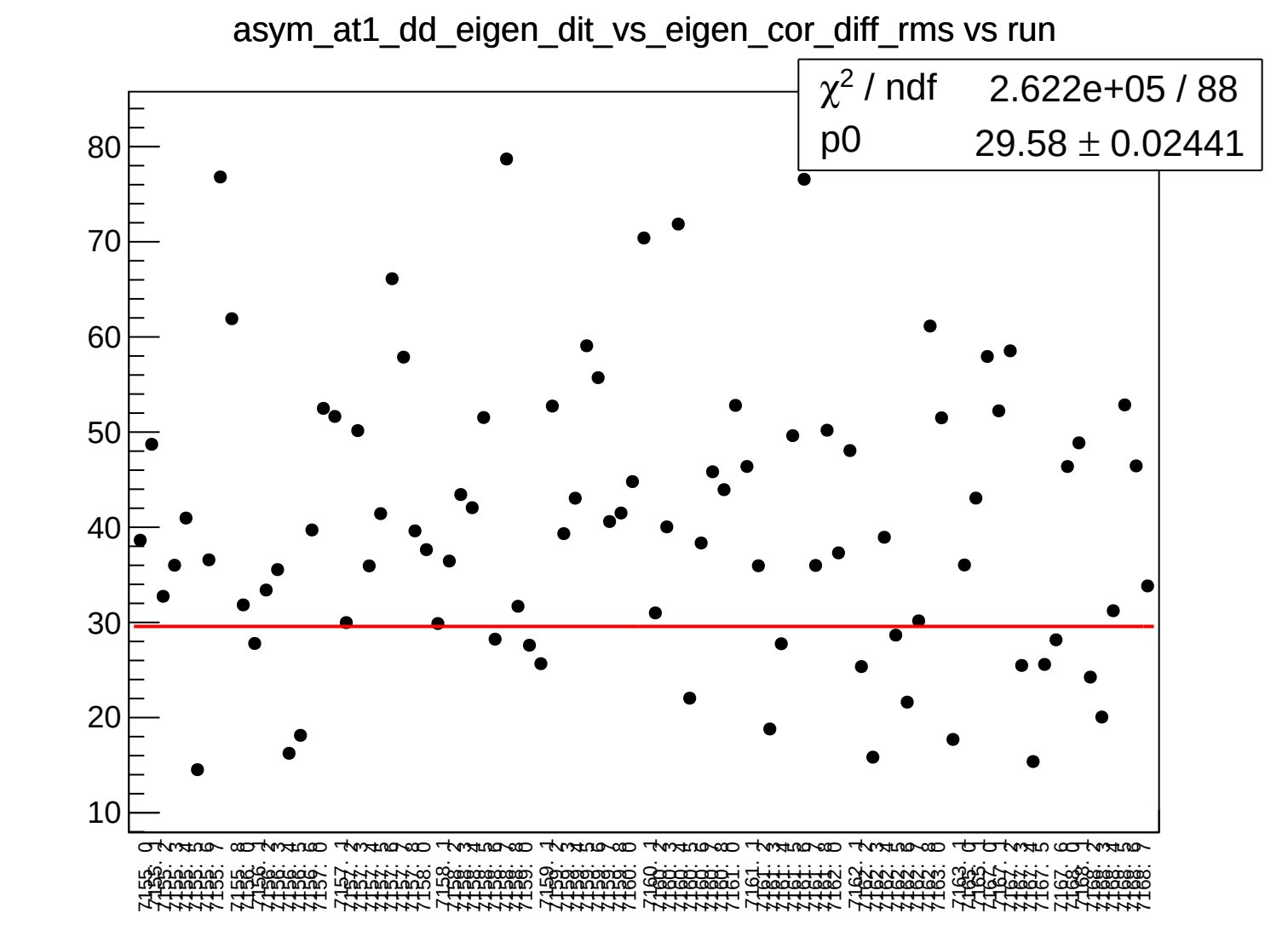

pull1D
Entries 89
Mean 0.01331
Std Dev 0.7844
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

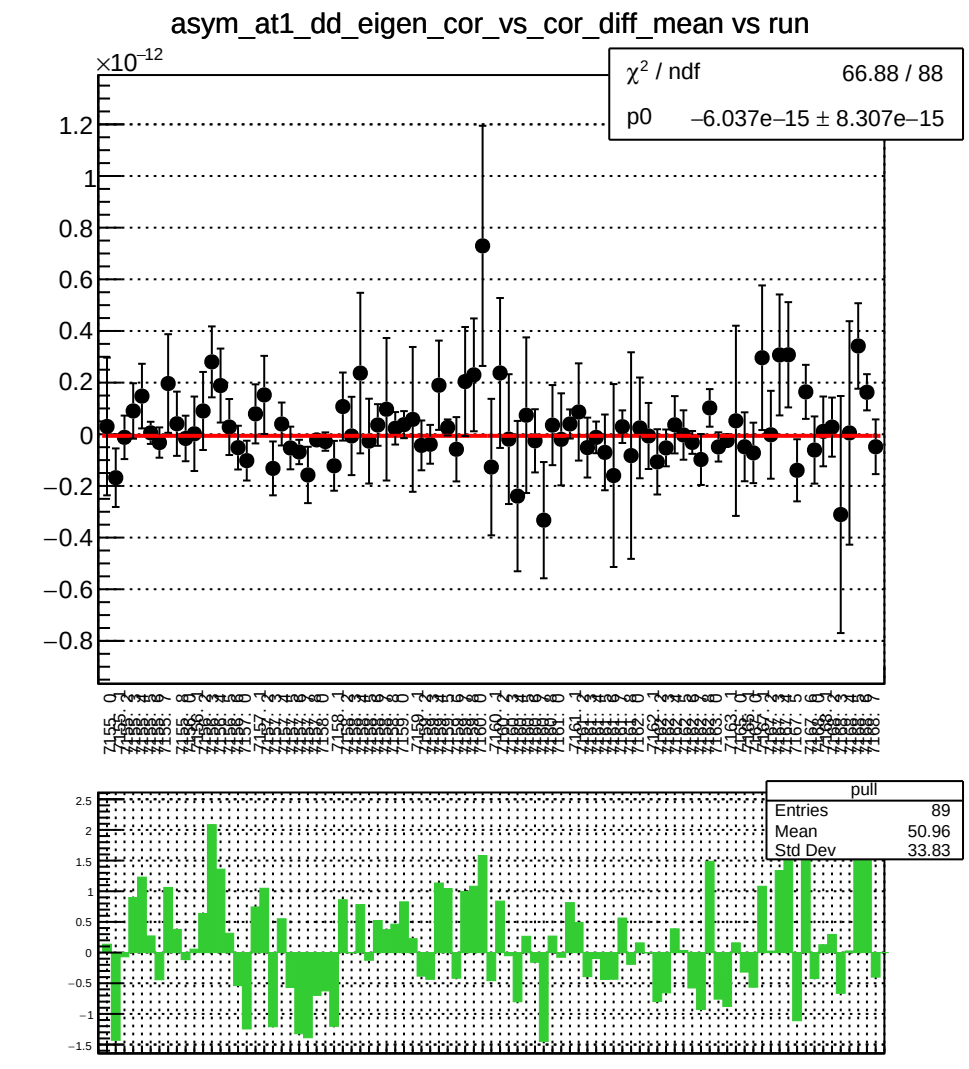

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.1e+05 / 88
p0 0.0006165 ± 5.001e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005
0.0004

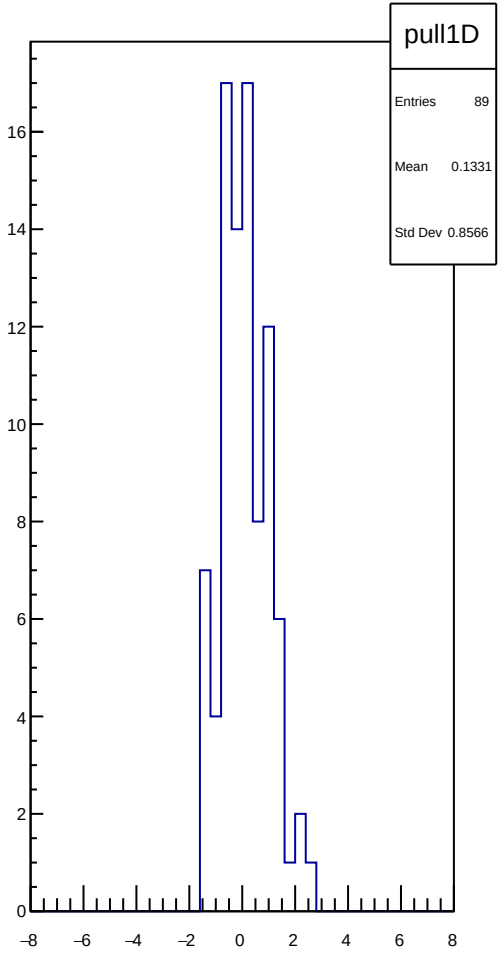

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.16 / 88
p0 0.03268 ± 0.03453
pull
Entries 89
Mean −6.695
Std Dev 0
pull1D
Entries 89
Mean −0.03262
Std Dev 0.9719

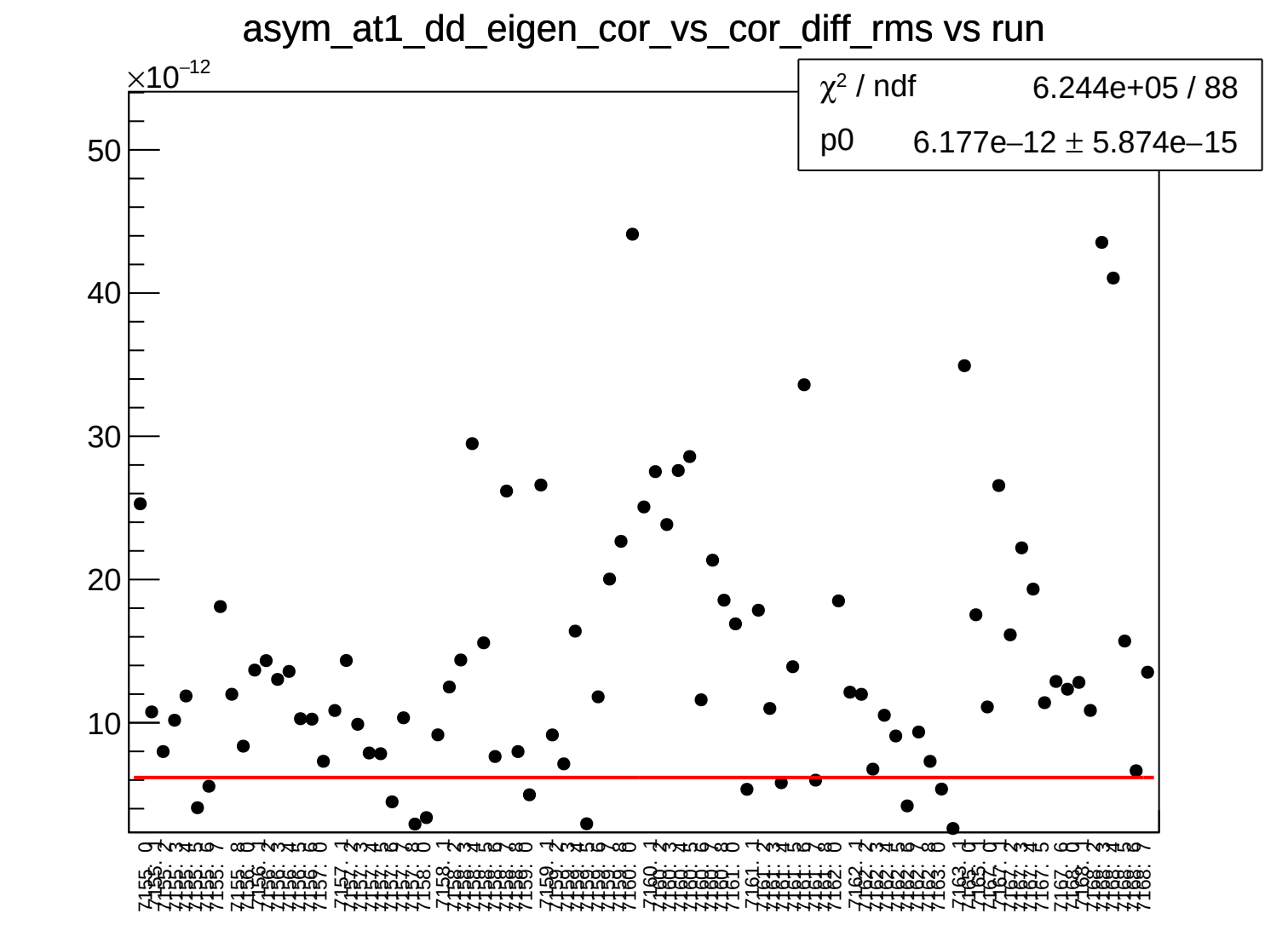

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.622e+05 / 88
p0 29.58 ± 0.02441
80
70
60
50
40
30
20
10

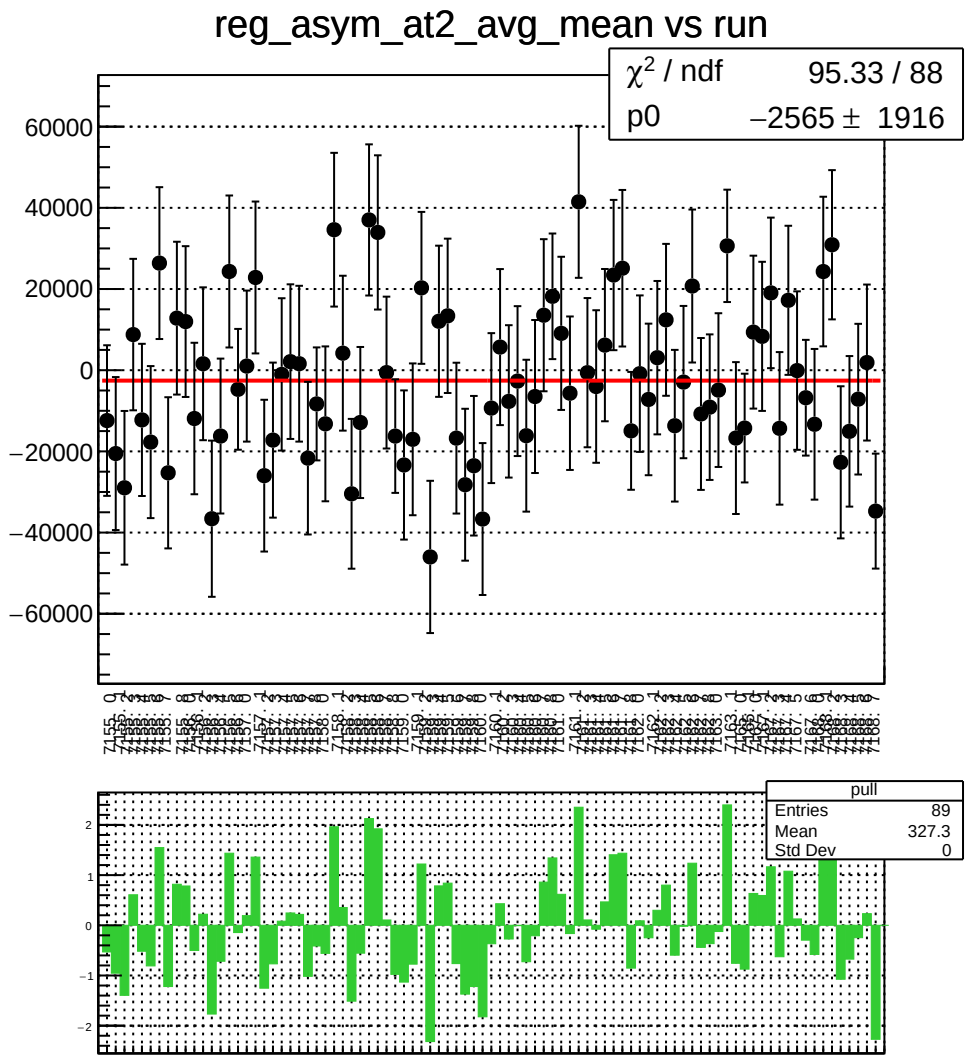

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.16 / 88
p0 0.03268 ± 0.03453
pull
Entries 89
Mean −6.695
Std Dev 0
pull1D
Entries 89
Mean −0.03262
Std Dev 0.9719

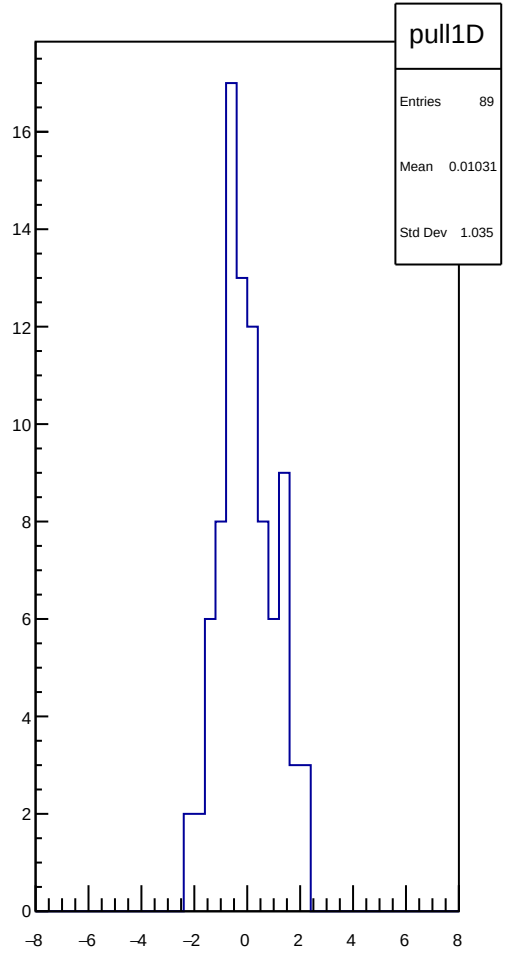

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.622e+05 / 88
p0 29.58 ± 0.02441
80
70
60
50
40
30
20
10

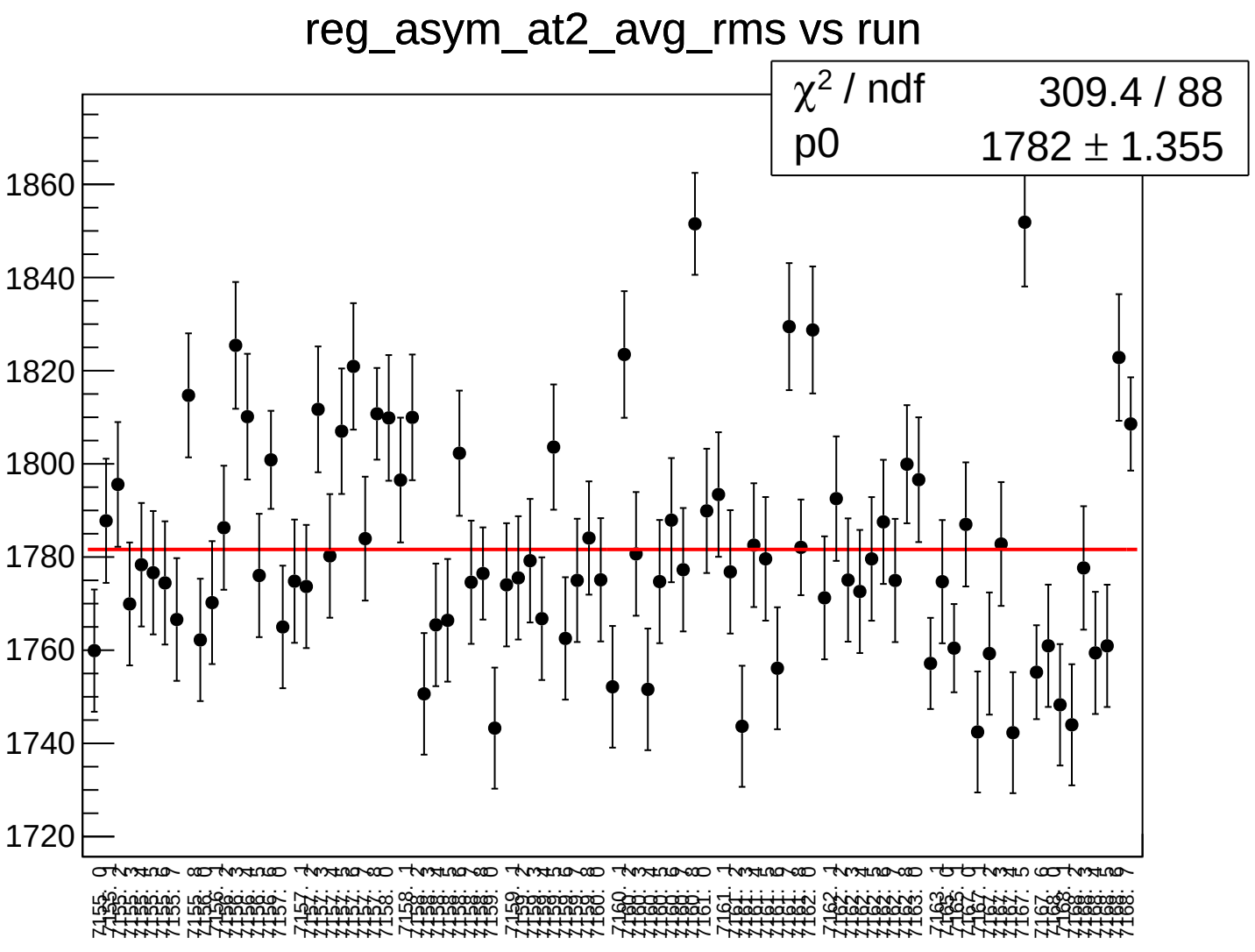

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 66.88 / 88
p0 −6.037e−15 ± 8.307e−15
pull
Entries 89
Mean 50.96
Std Dev 33.83

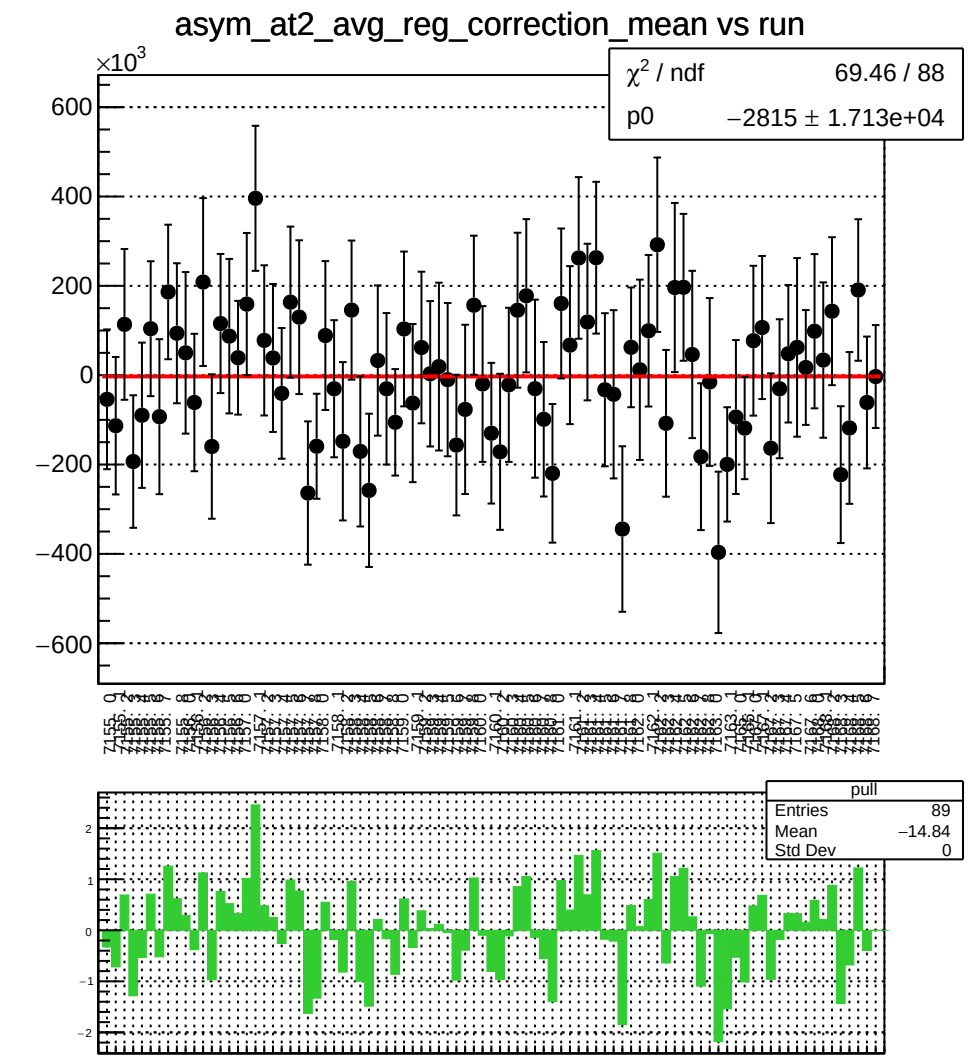

pull1D
Entries 89
Mean 0.1331
Std Dev 0.8566

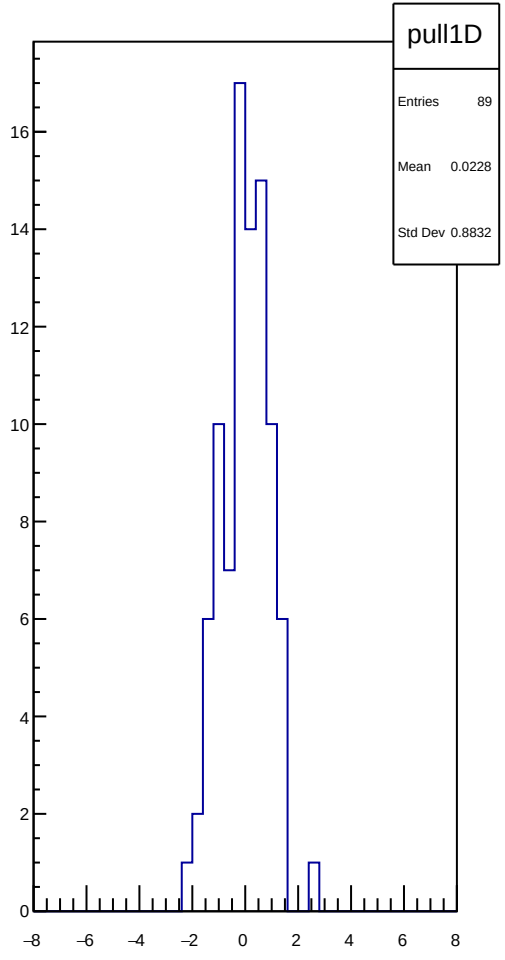

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.244e+05 / 88
p0 6.177e−12 ± 5.874e−15
50
40
30
20
10

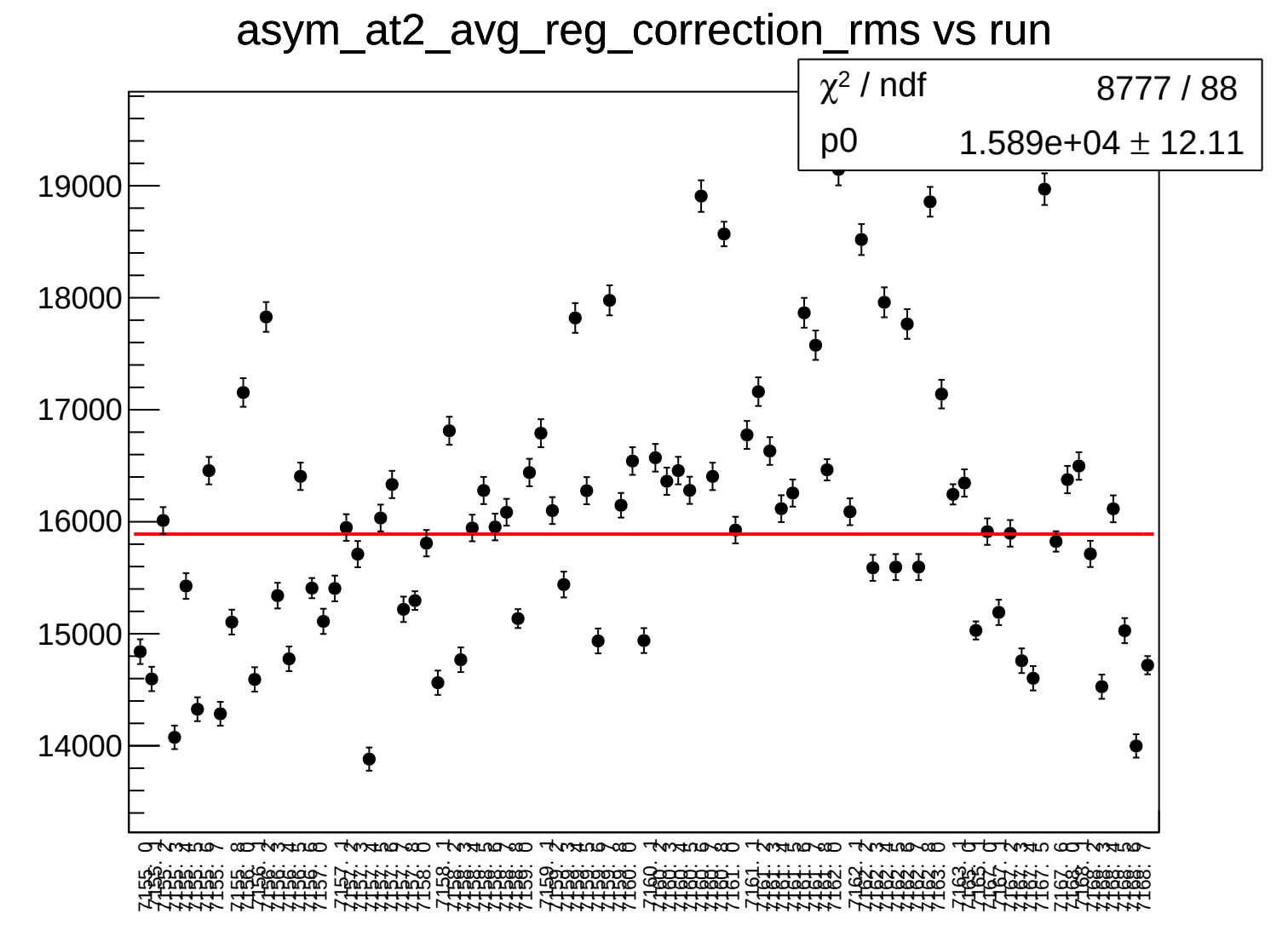

reg_asym_at2_avg_mean vs run
χ² / ndf 95.33 / 88
p0 −2565 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 327.3
Std Dev 0
2
1
0
−1
−2

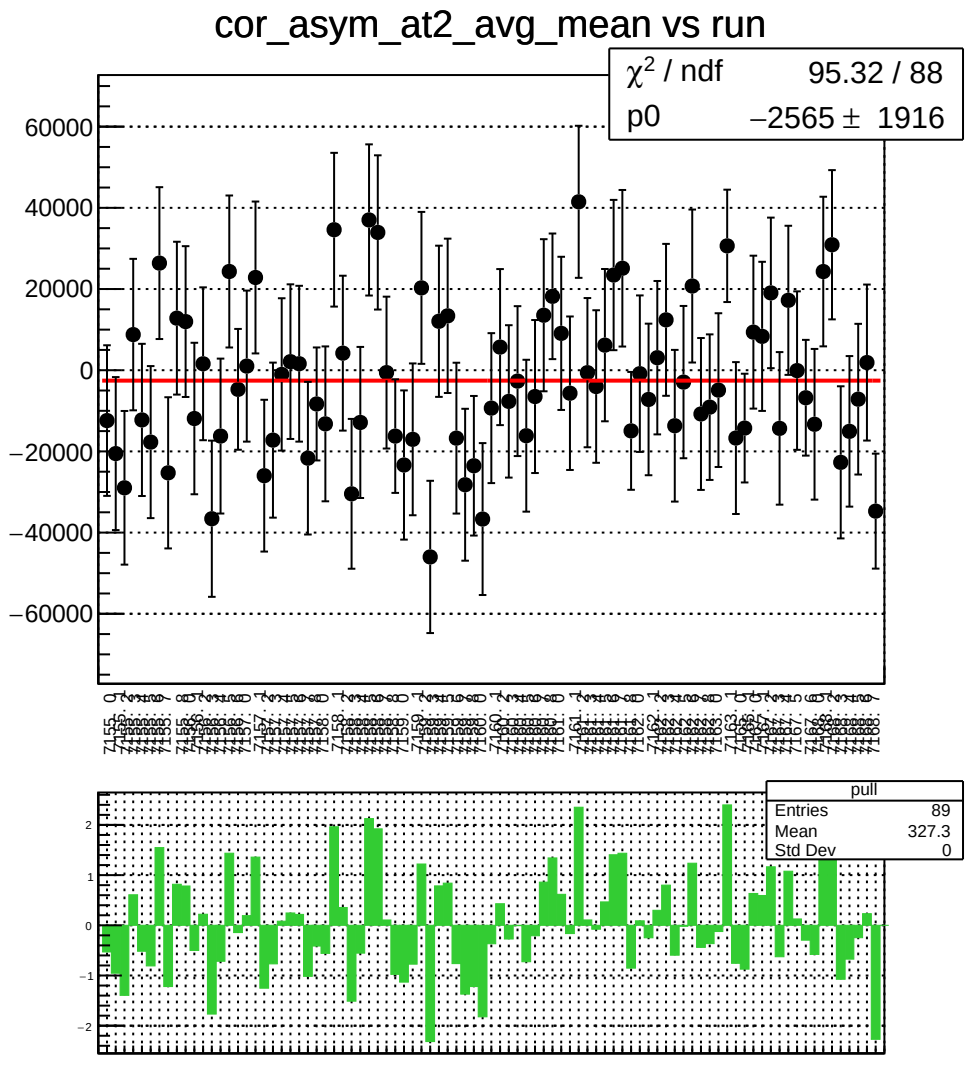

pull1D
Entries 89
Mean 0.01031
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

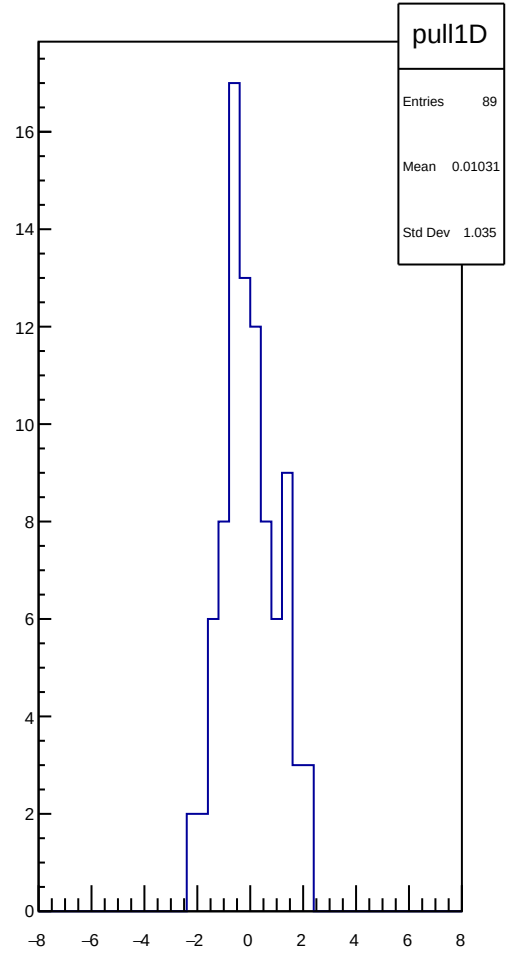

reg_asym_at2_avg_rms vs run
χ^2 / ndf 309.4 / 88
p0 1782 ± 1.355
1860
1840
1820
1800
1780
1760
1740
1720

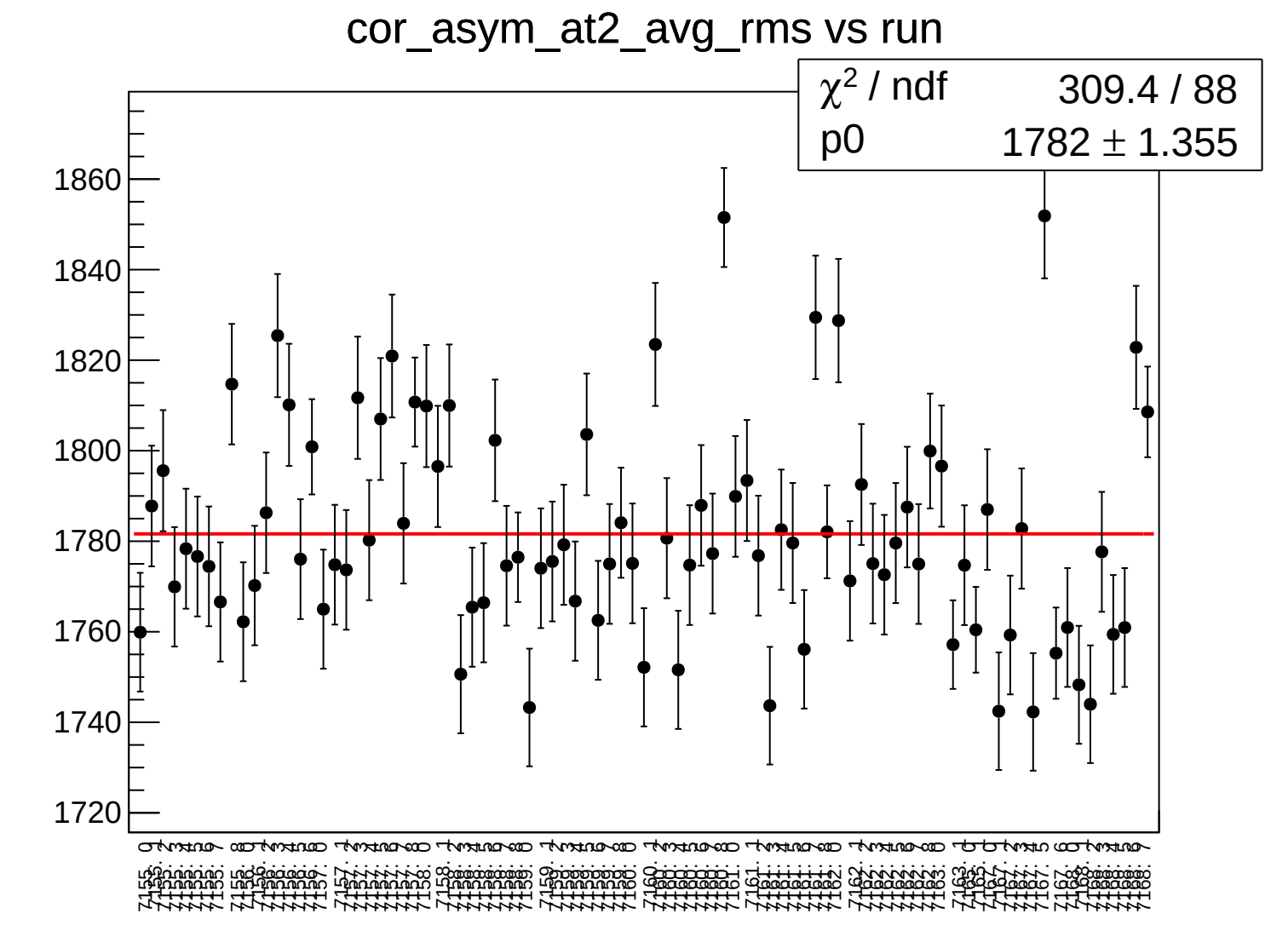

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.46 / 88
p0 −2815 ± 1.713e+04
pull
Entries 89
Mean −14.84
Std Dev 0

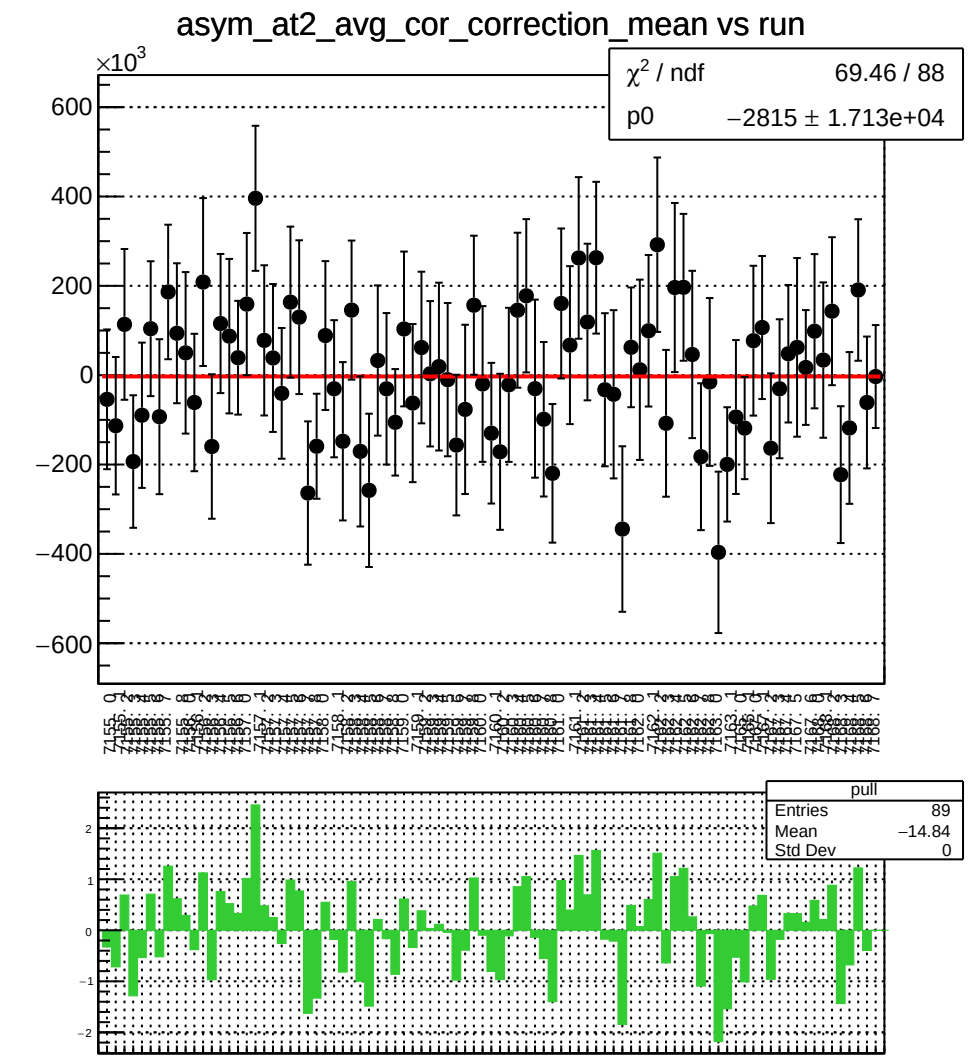

pull1D
Entries 89
Mean 0.0228
Std Dev 0.8832

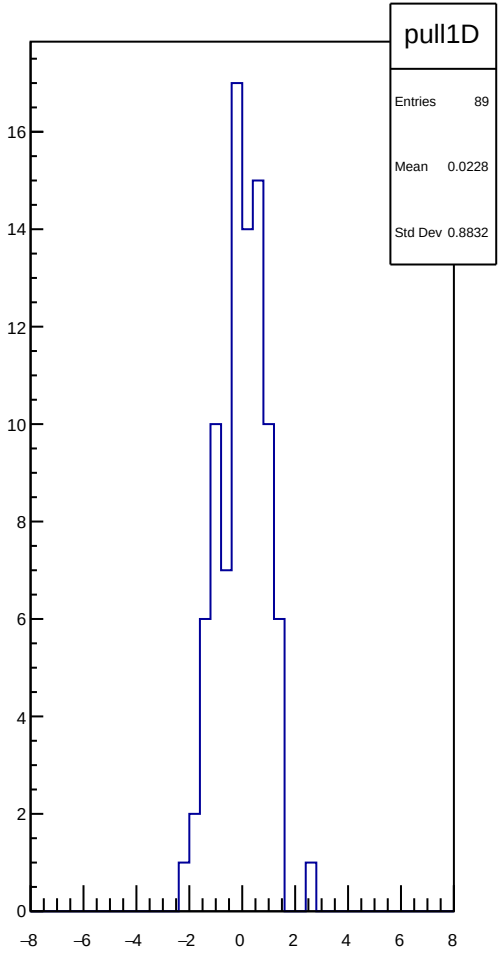

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 8777 / 88
p0 1.589e+04 ± 12.11
19000
18000
17000
16000
15000
14000

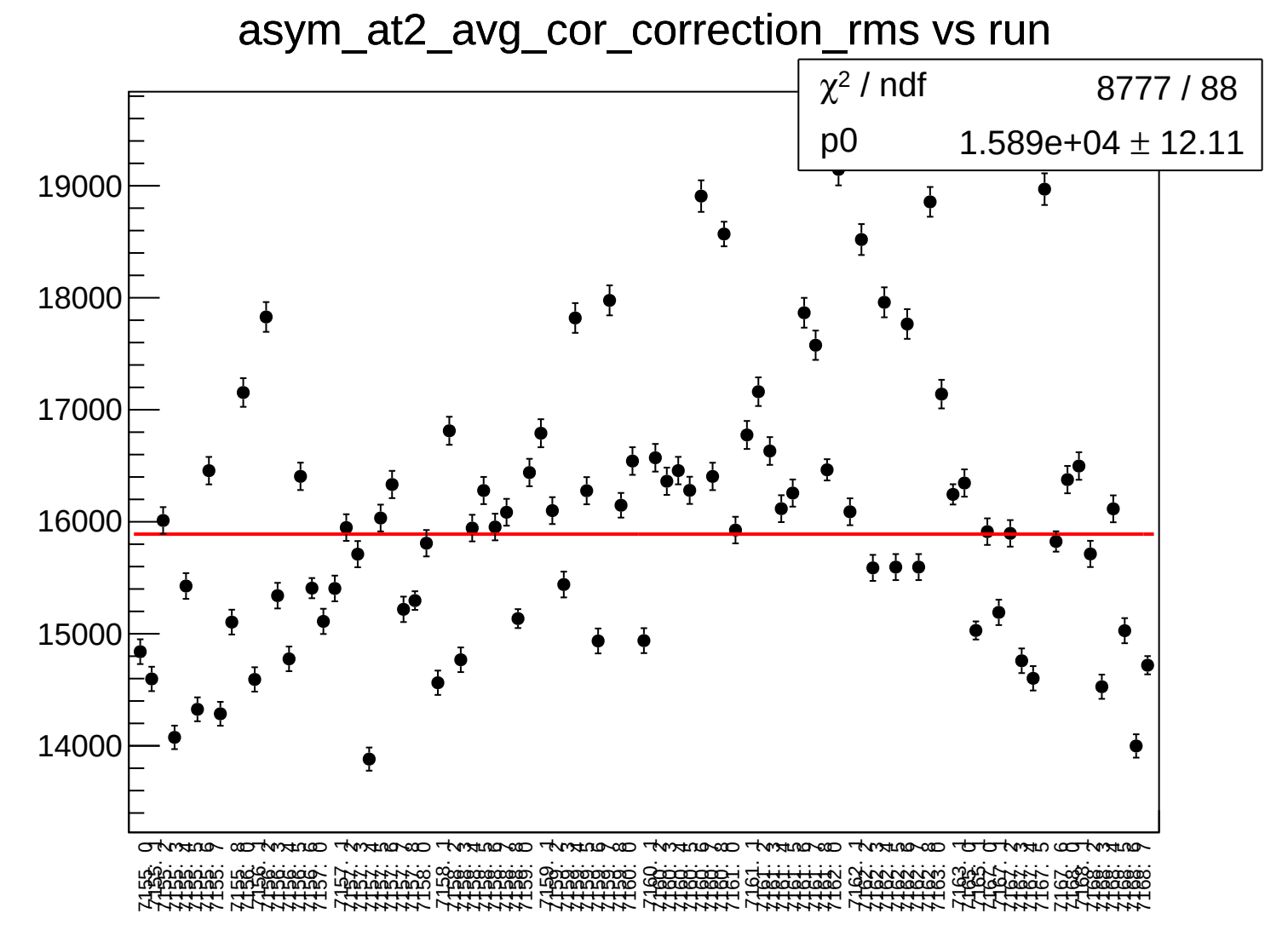

cor_asym_at2_avg_mean vs run
χ² / ndf 95.32 / 88
p0 −2565 ± 1916
pull
Entries 89
Mean 327.3
Std Dev 0

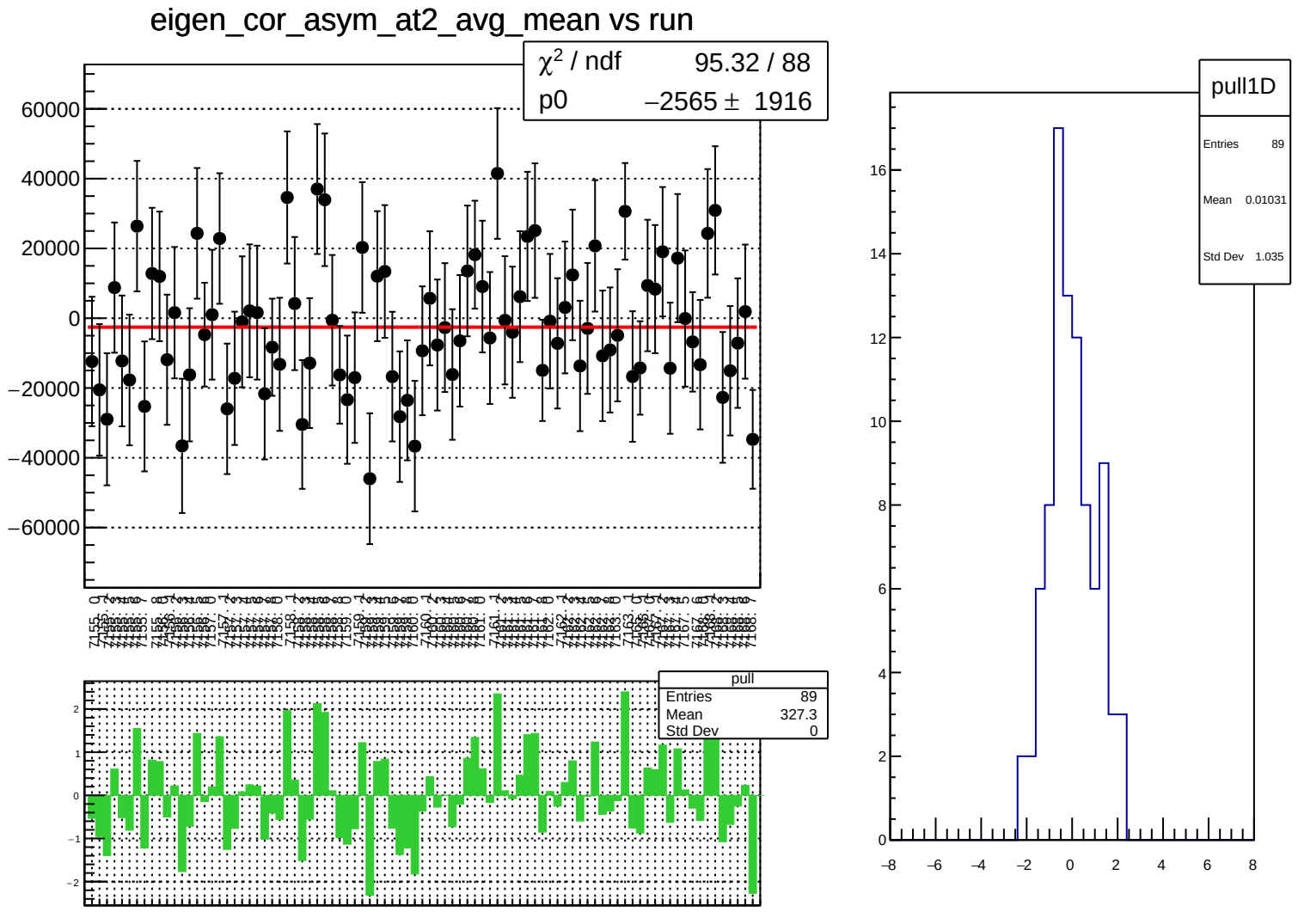

pull1D
Entries 89
Mean 0.01031
Std Dev 1.035

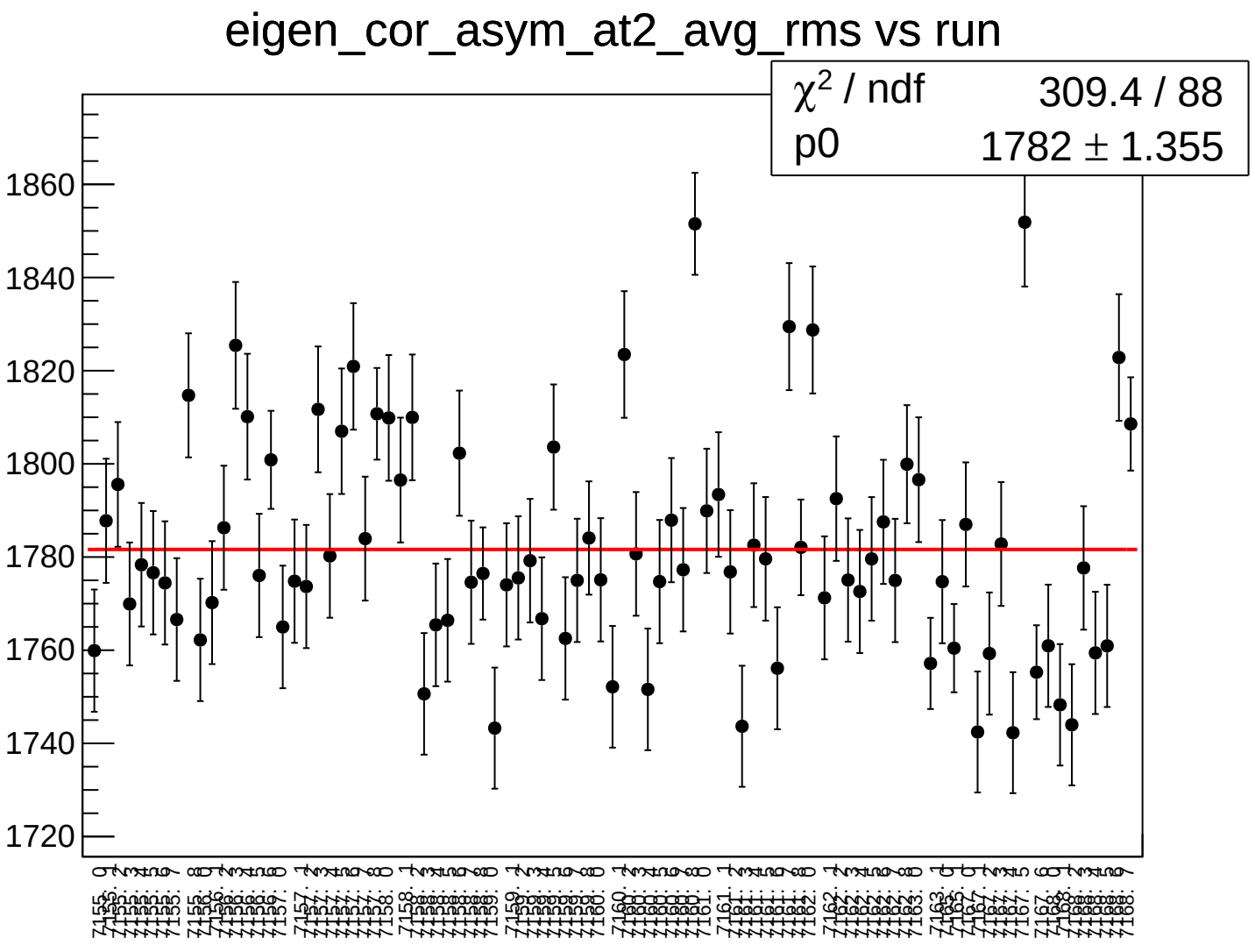

cor_asym_at2_avg_rms vs run
χ^2 / ndf 309.4 / 88
p0 1782 ± 1.355
1860
1840
1820
1800
1780
1760
1740
1720

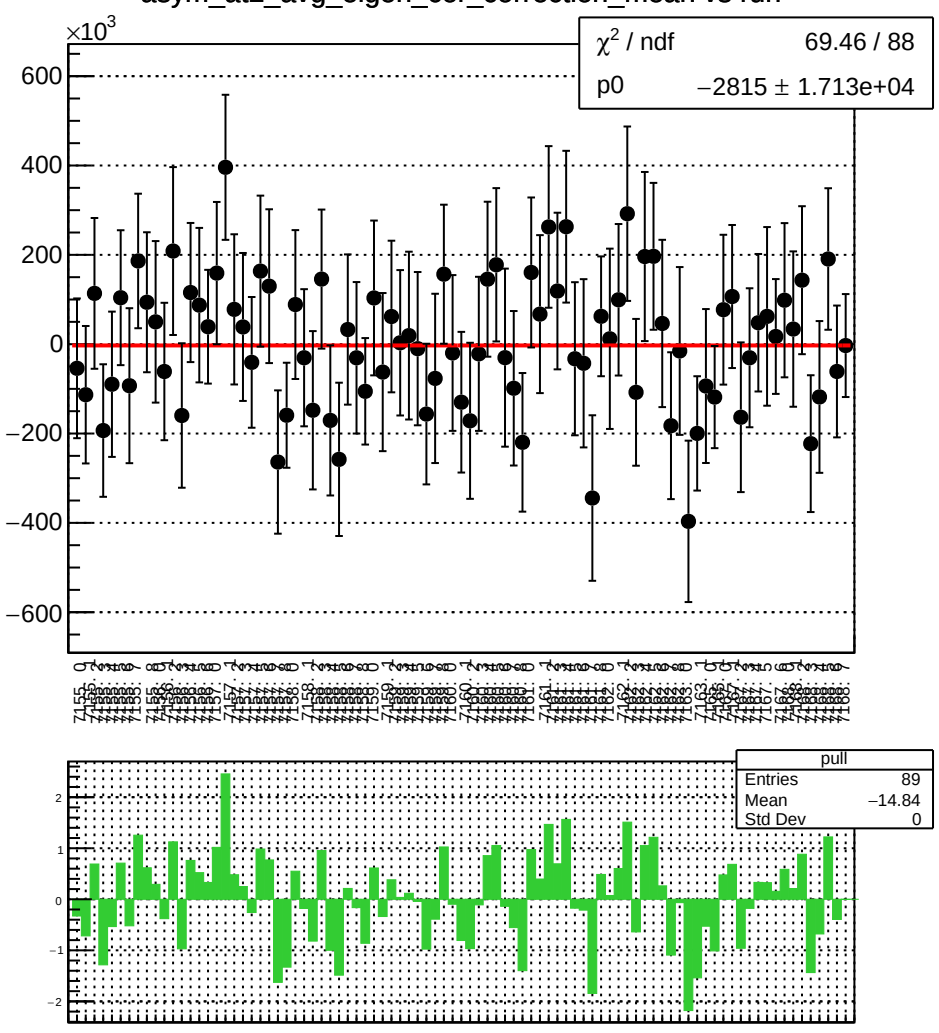

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.46 / 88
p0 −2815 ± 1.713e+04
pull
Entries 89
Mean −14.84
Std Dev 0

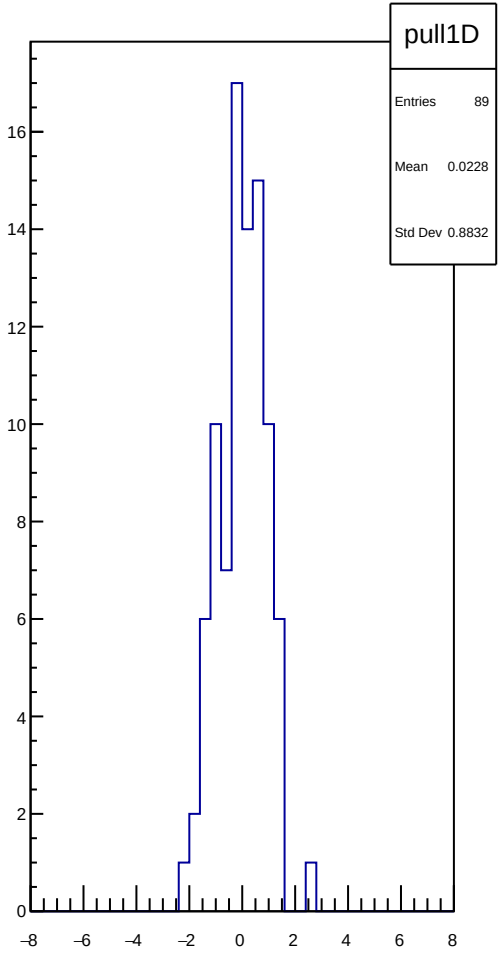

pull1D
Entries 89
Mean 0.0228
Std Dev 0.8832

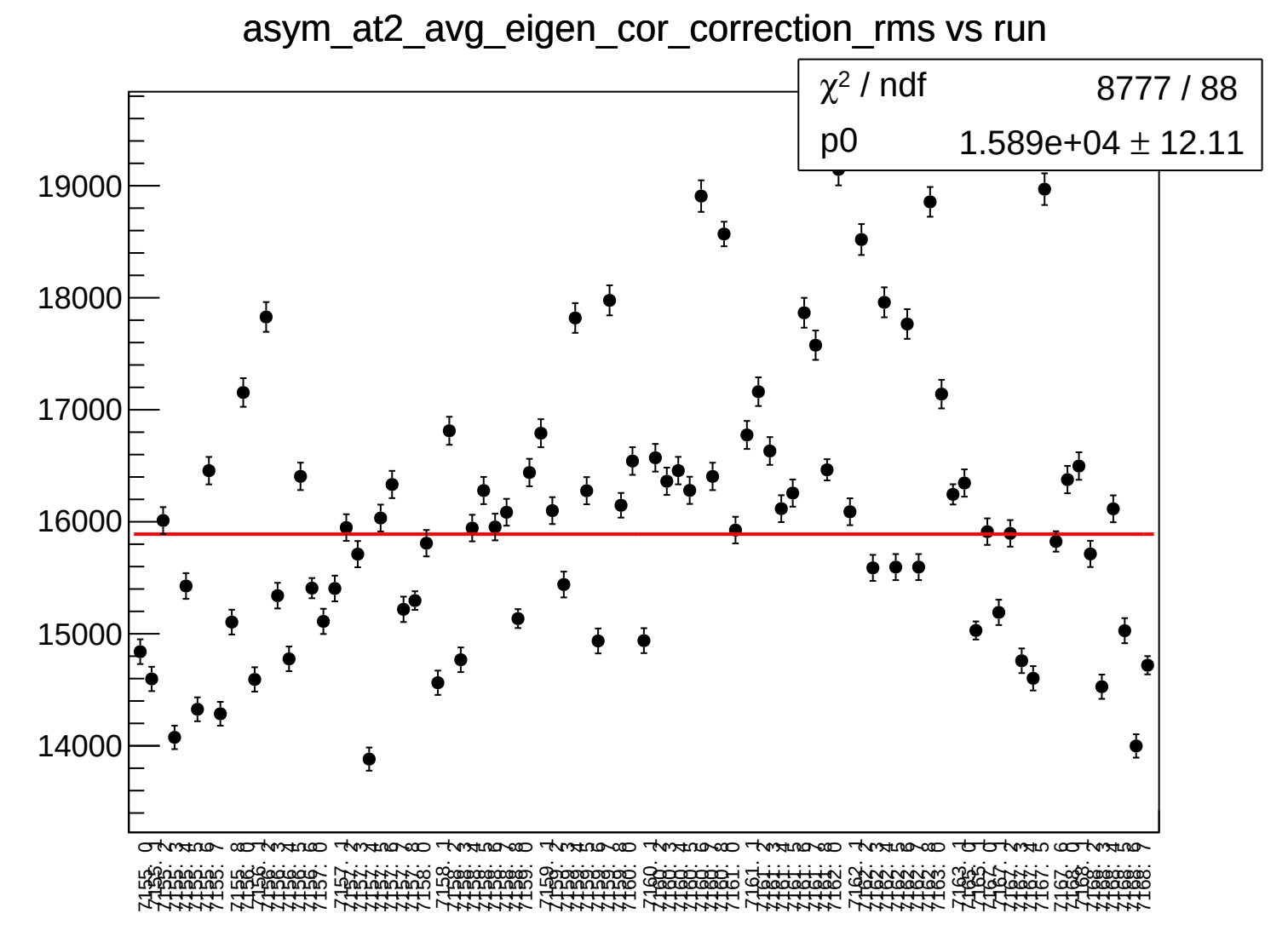

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 8777 / 88
p0 1.589e+04 ± 12.11
19000
18000
17000
16000
15000
14000

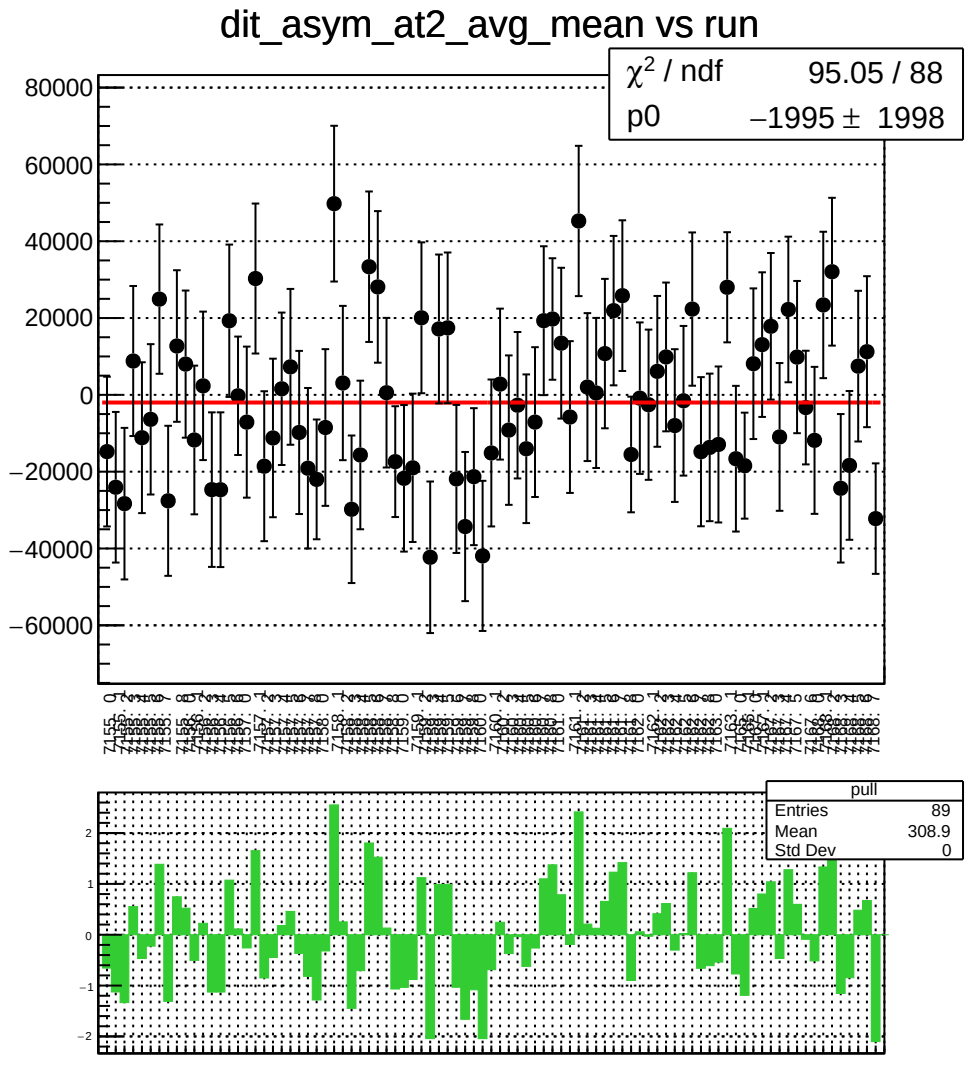

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 95.32 / 88
p0 −2565 ± 1916
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 327.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01031
Std Dev 1.035
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

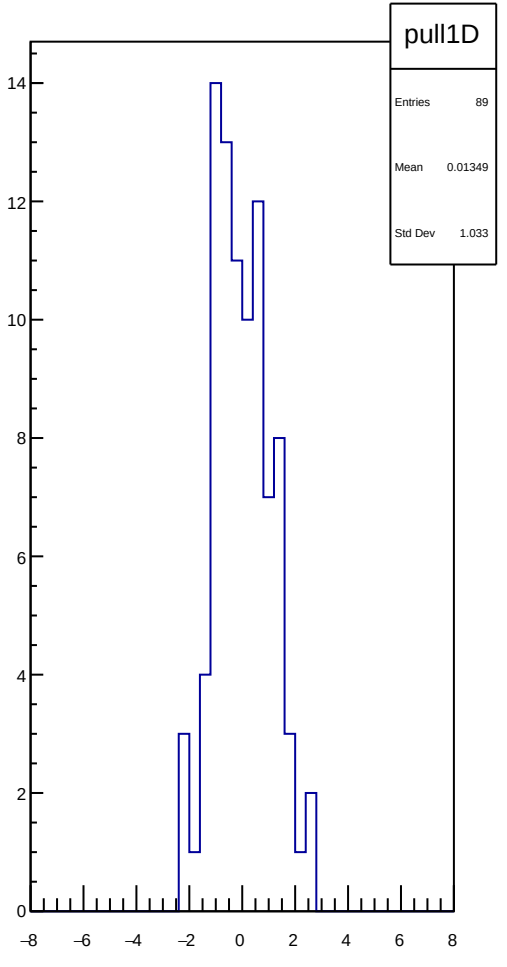

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 309.4 / 88
p0 1782 ± 1.355
1860
1840
1820
1800
1780
1760
1740
1720

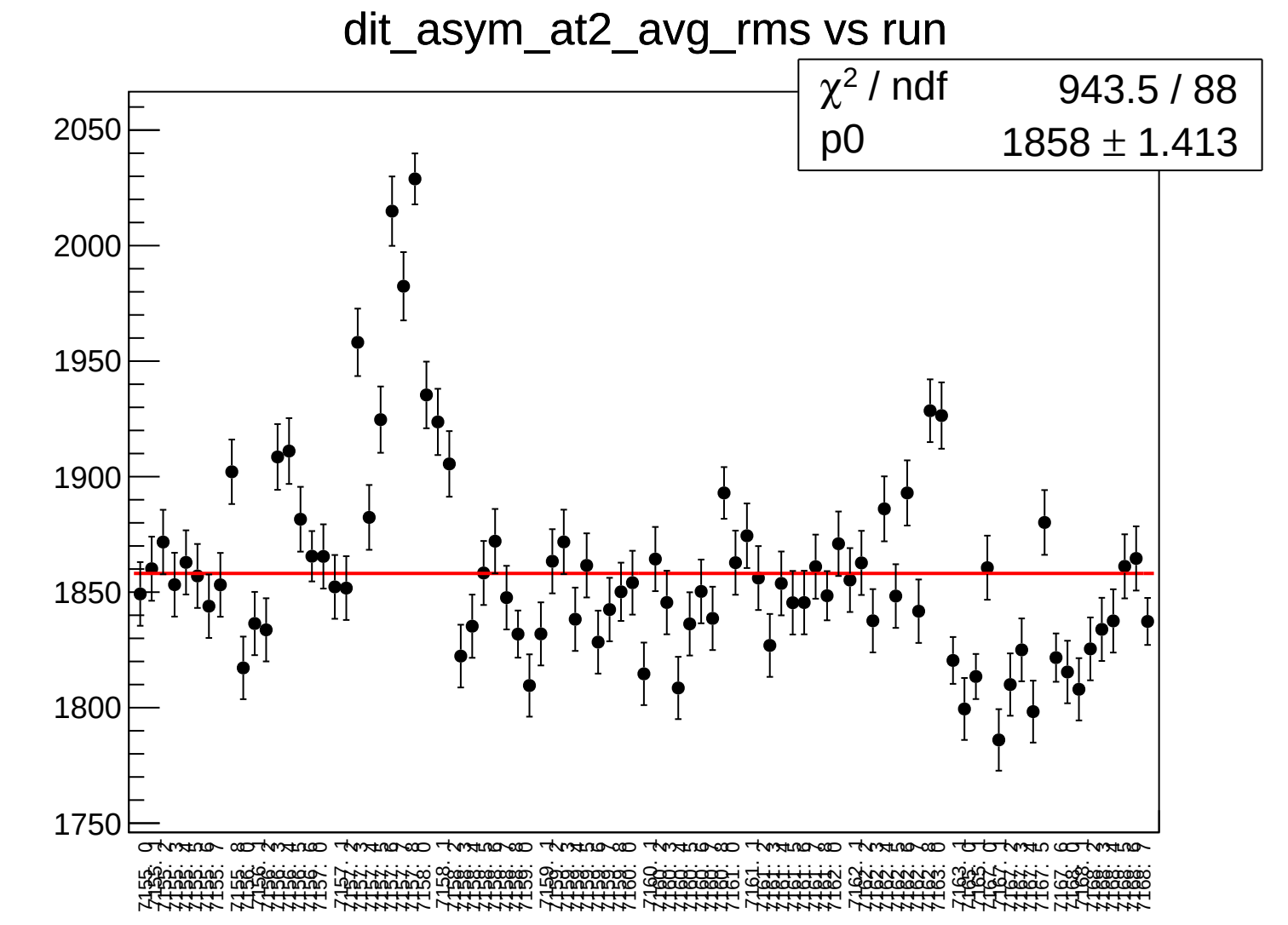

asym_at2_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.46 / 88
p0 −2815 ± 1.713e+04
×10³
pull
Entries 89
Mean −14.84
Std Dev 0

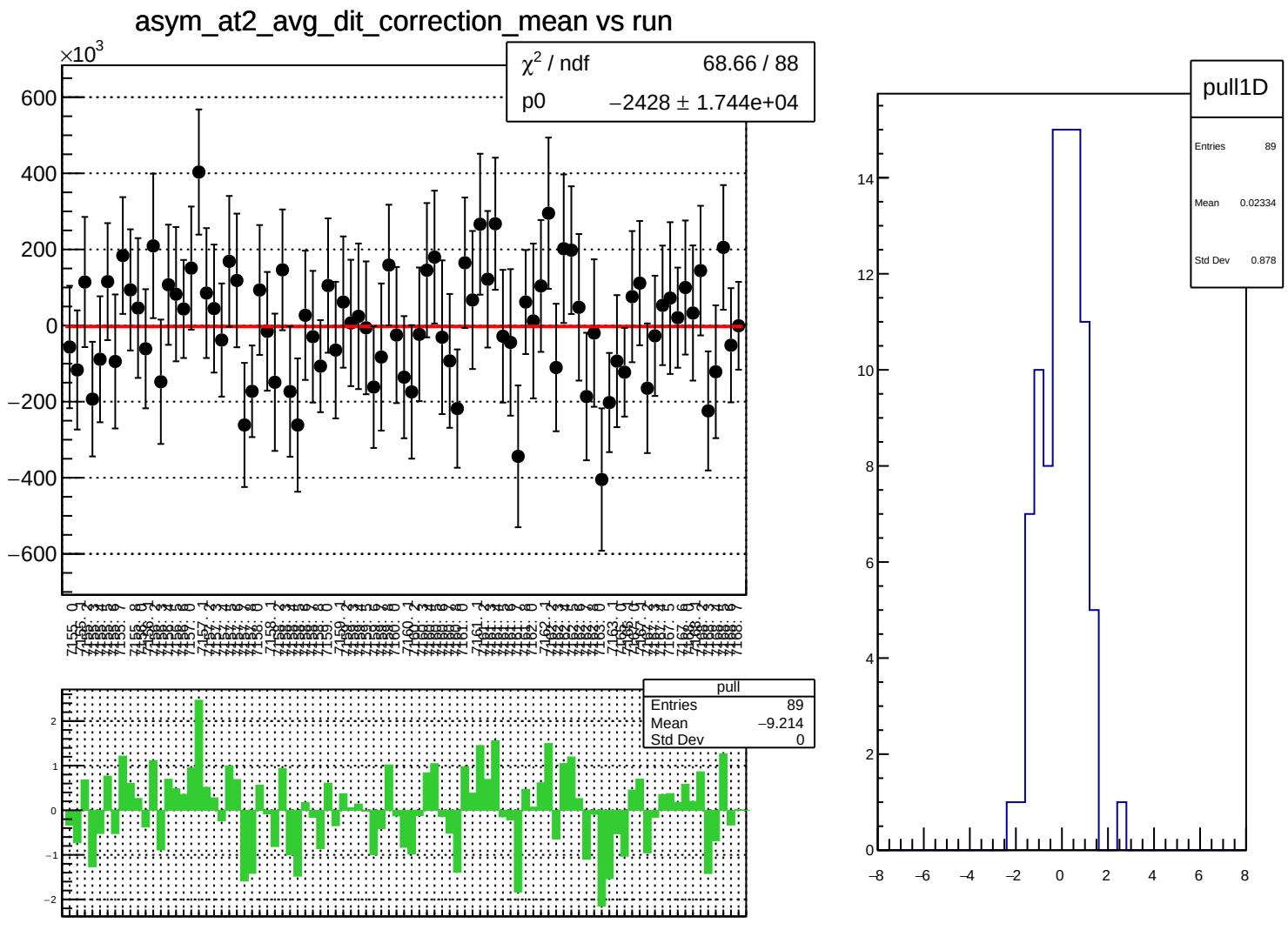

pull1D
Entries 89
Mean 0.0228
Std Dev 0.8832

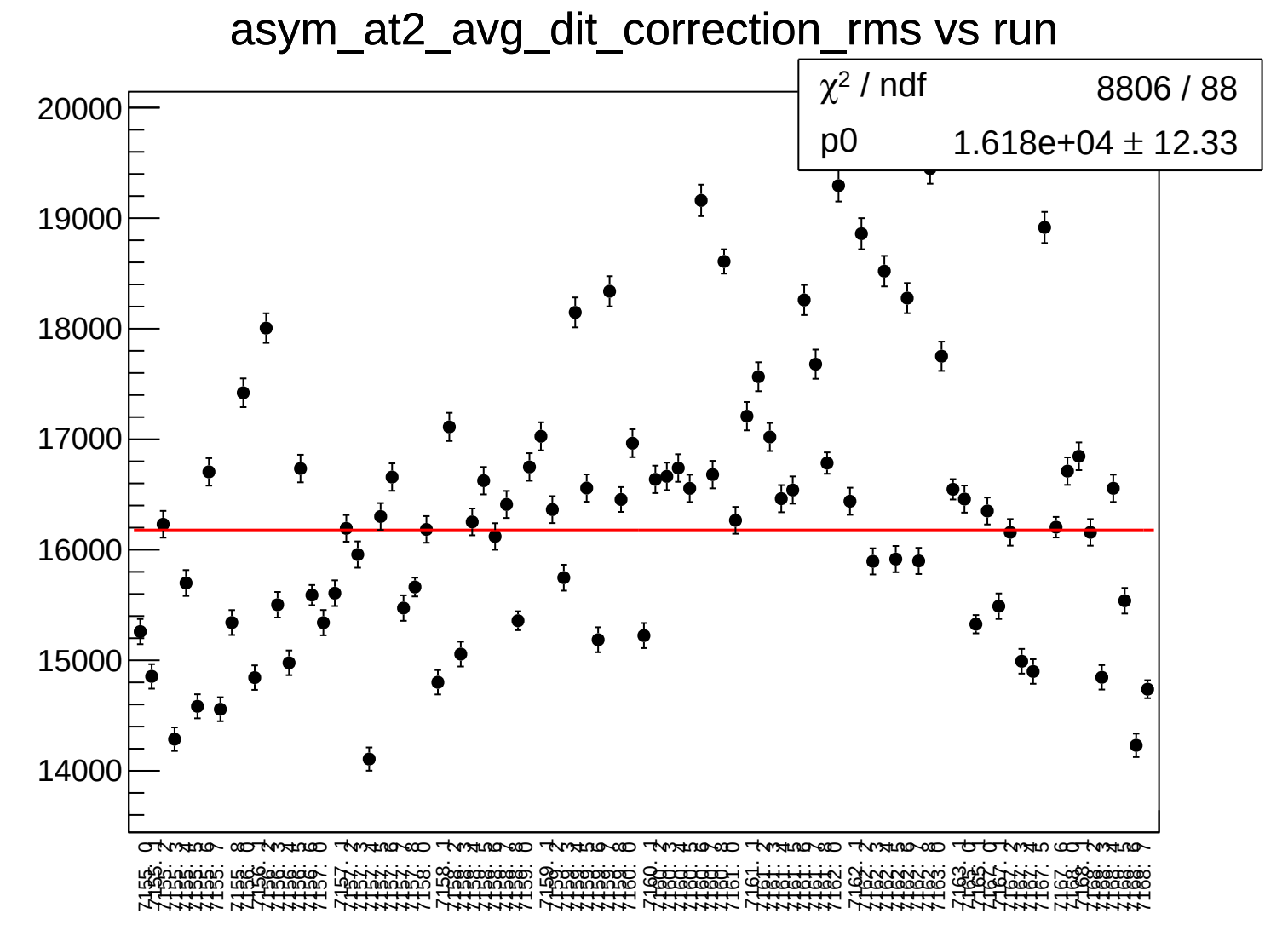

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8777 / 88
p0 1.589e+04 ± 12.11
19000
18000
17000
16000
15000
14000

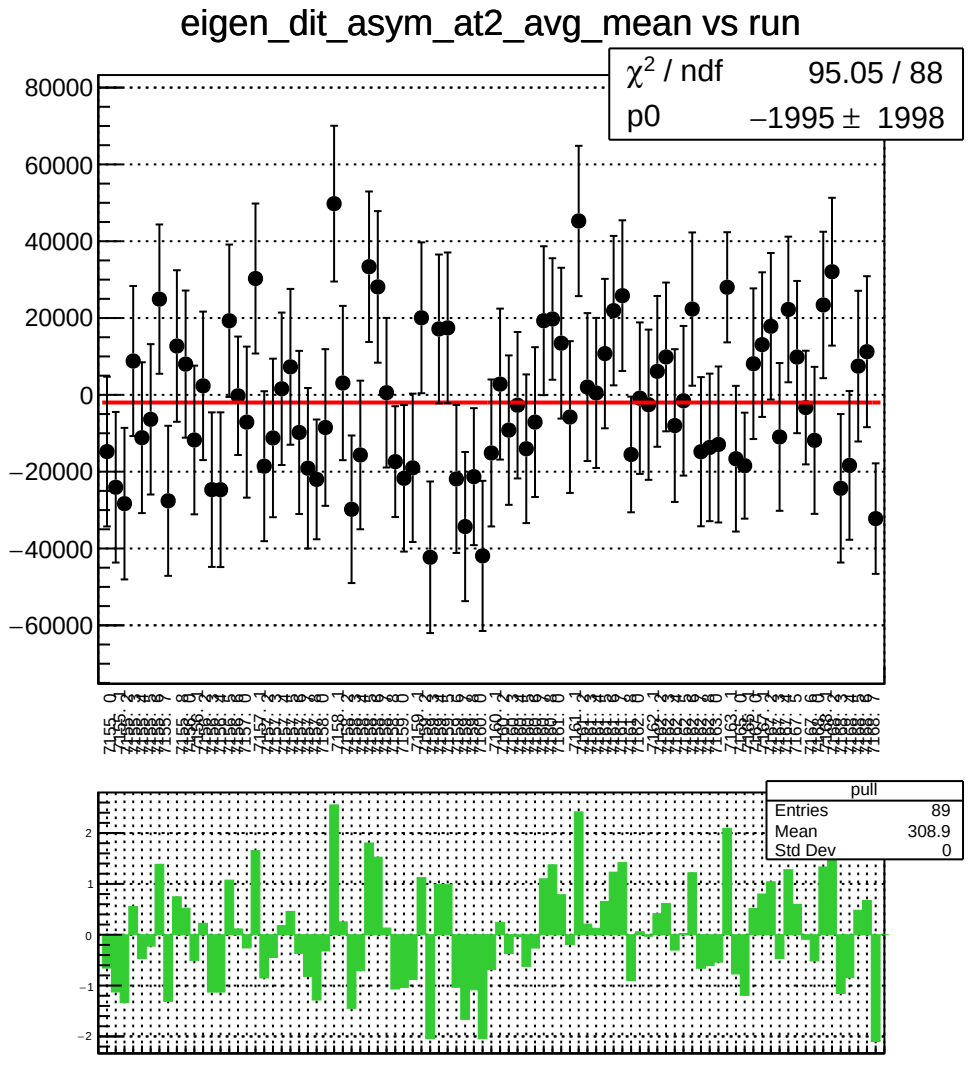

dit_asym_at2_avg_mean vs run
χ² / ndf 95.05 / 88
p0 −1995 ± 1998
pull
Entries 89
Mean 308.9
Std Dev 0

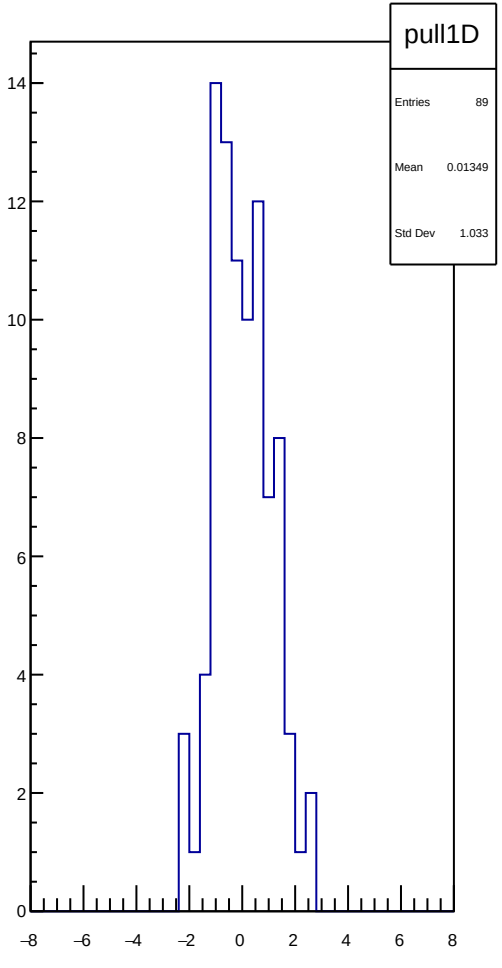

pull1D
Entries 89
Mean 0.01349
Std Dev 1.033

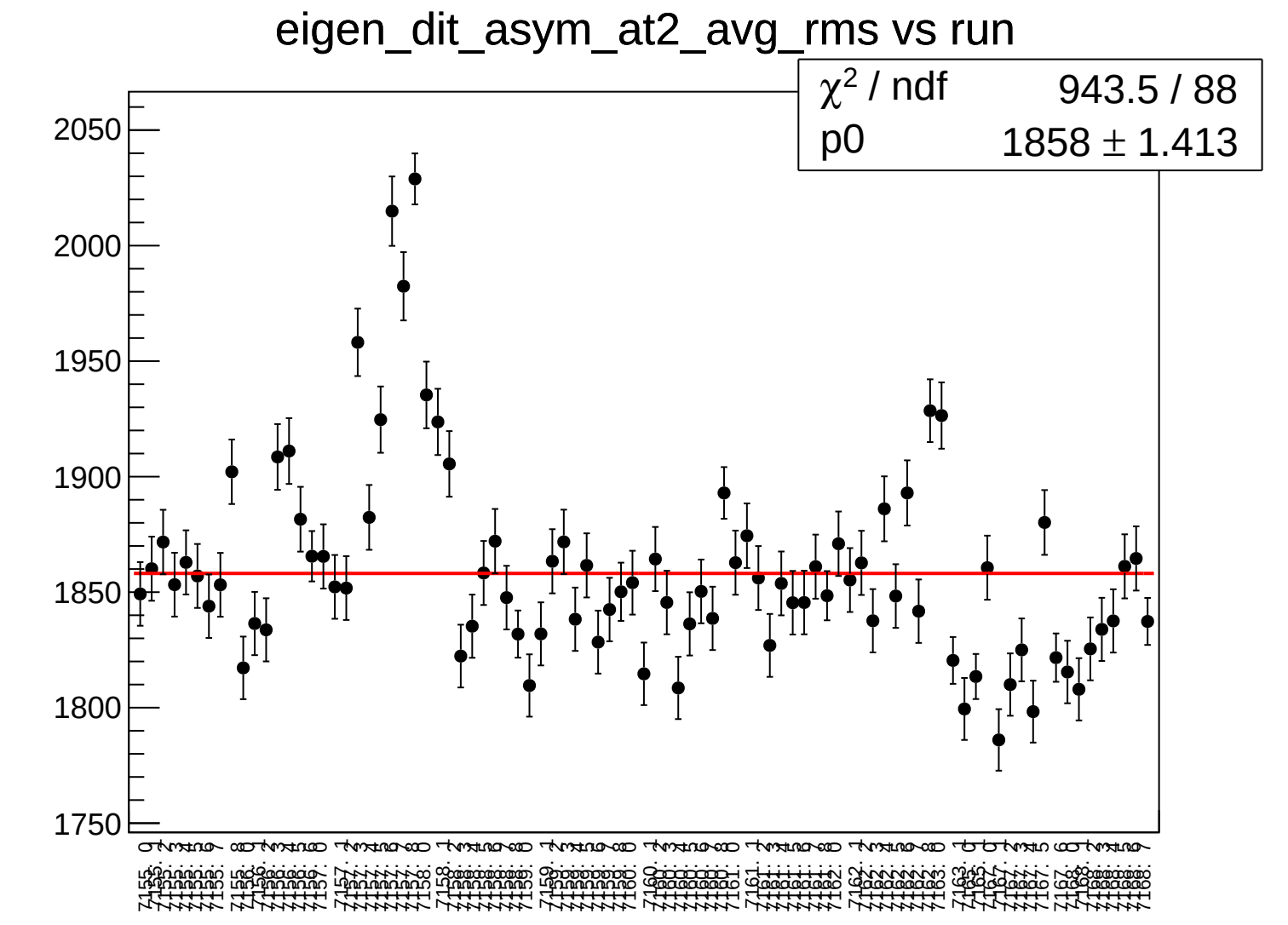

dit_asym_at2_avg_rms vs run
χ^2 / ndf 943.5 / 88
p0 1858 ± 1.413
2050
2000
1950
1900
1850
1800
1750

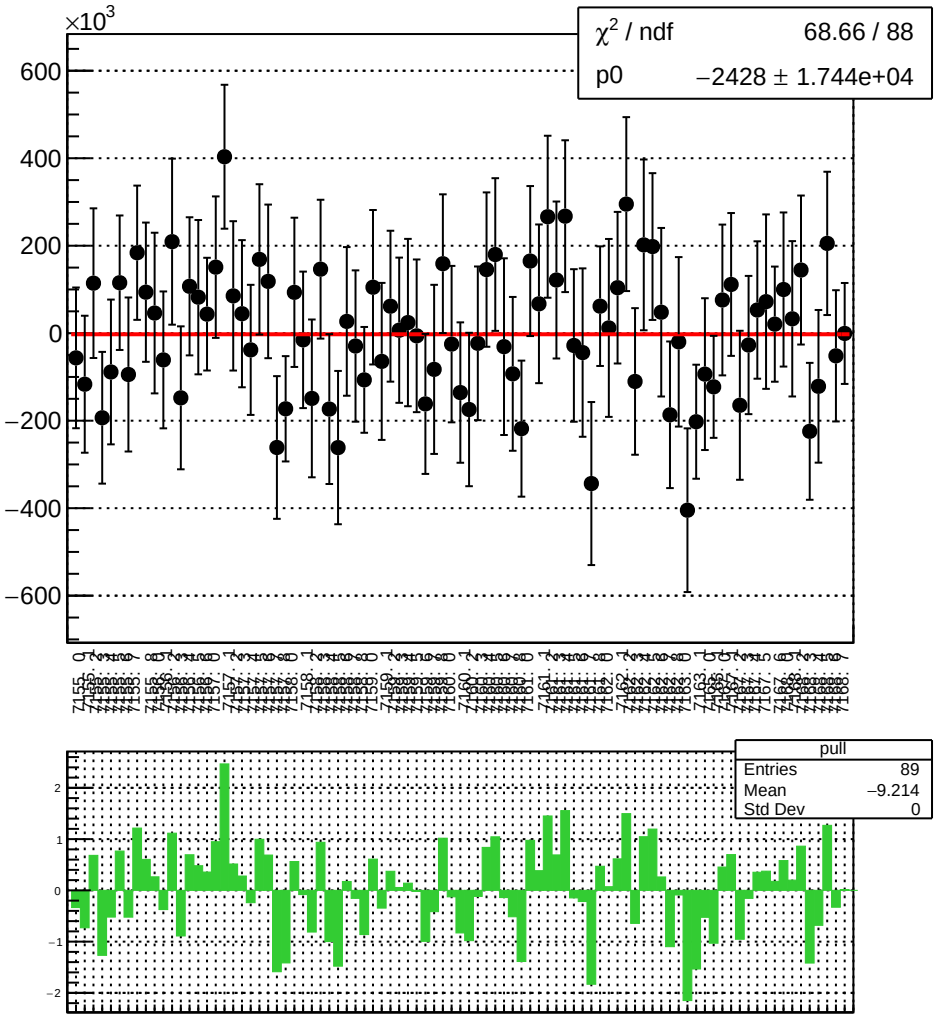

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.66 / 88
p0 −2428 ± 1.744e+04
pull
Entries 89
Mean −9.214
Std Dev 0
pull1D
Entries 89
Mean 0.02334
Std Dev 0.878

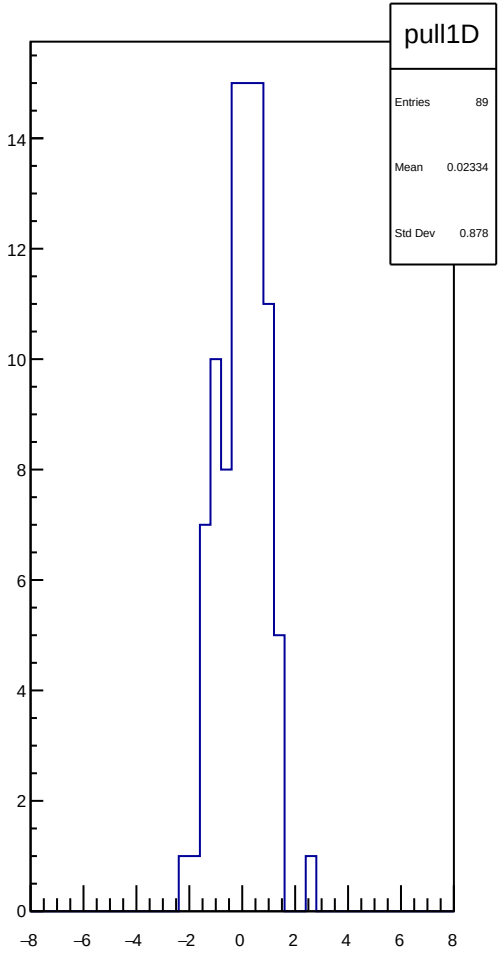

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 8806 / 88
p0 1.618e+04 ± 12.33
20000
19000
18000
17000
16000
15000
14000

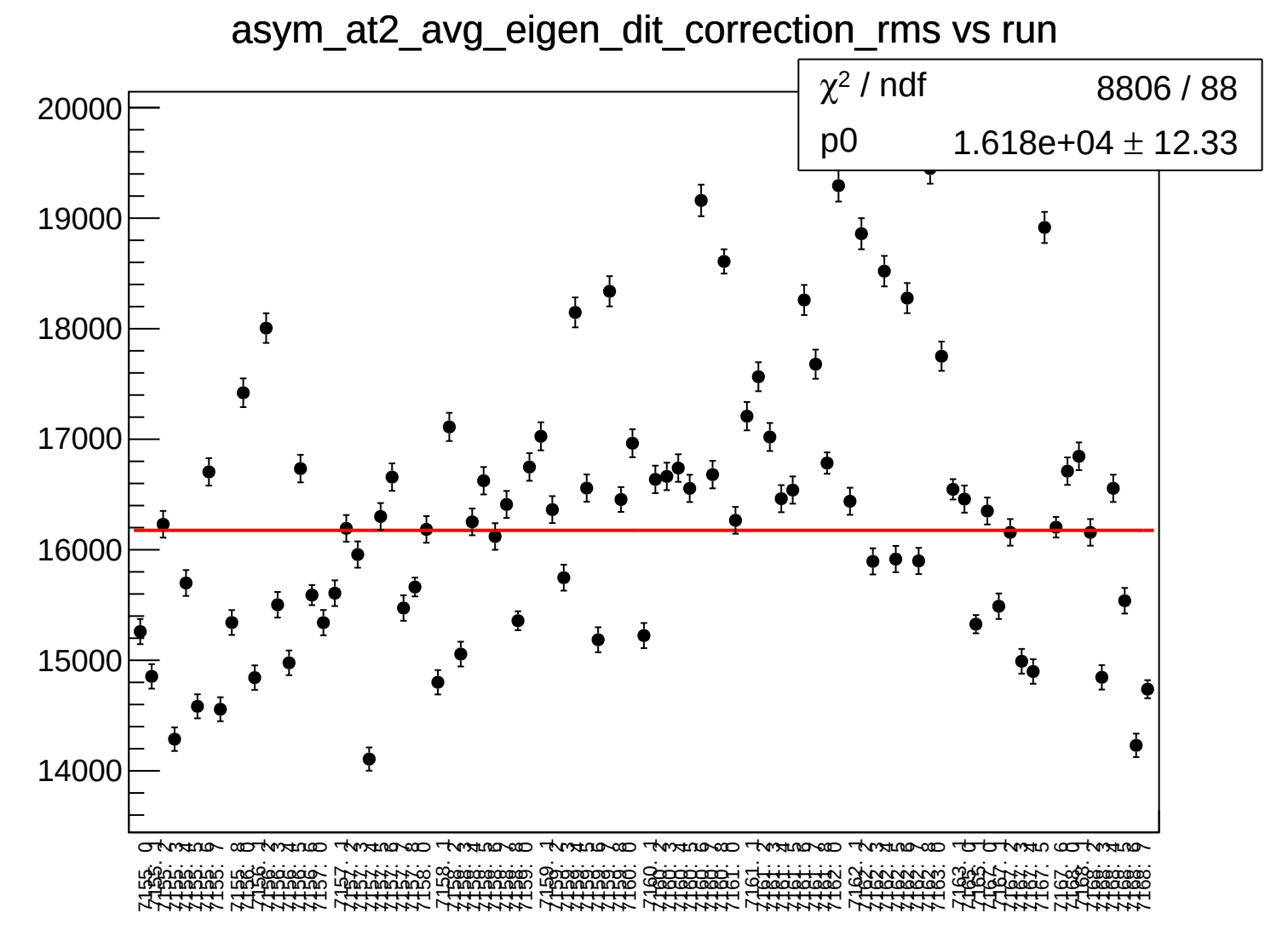

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 95.05 / 88
p0 −1995 ± 1998
pull
Entries 89
Mean 308.9
Std Dev 0

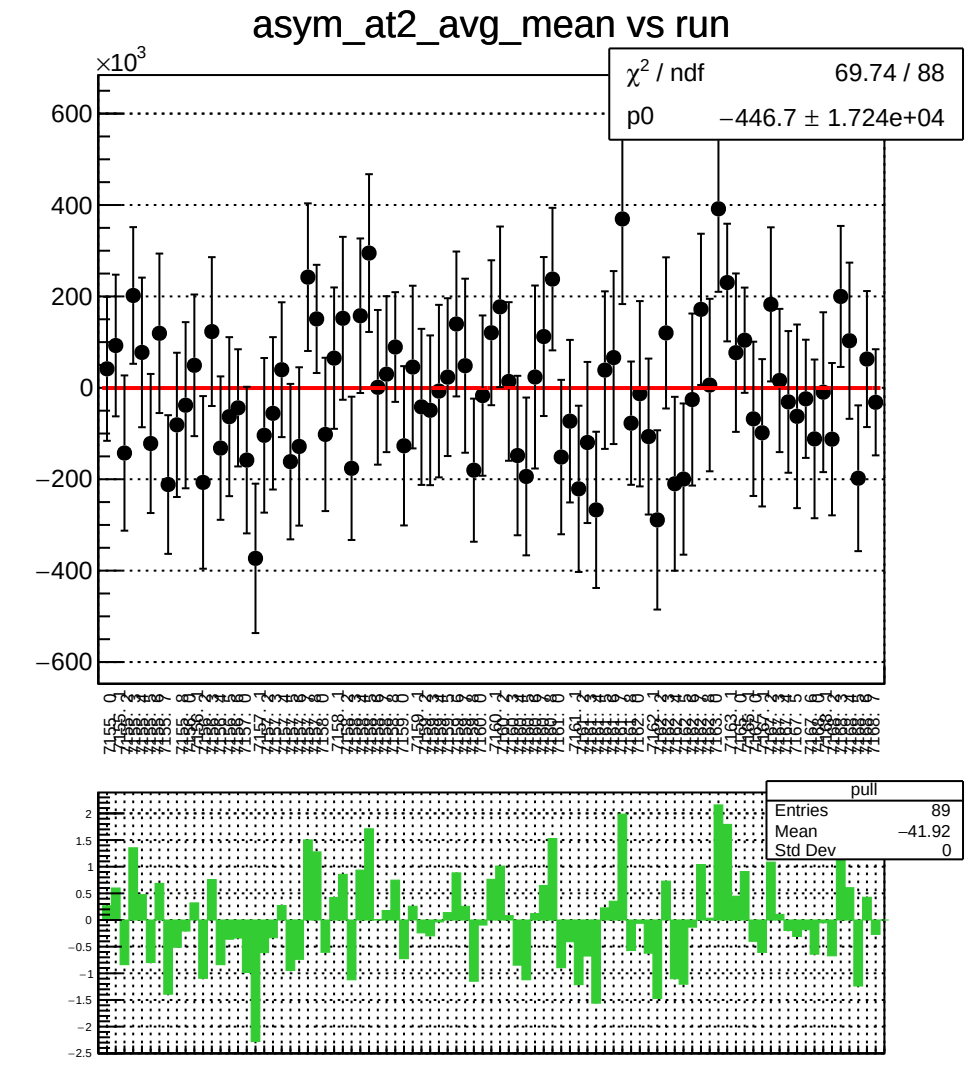

pull1D
Entries 89
Mean 0.01349
Std Dev 1.033

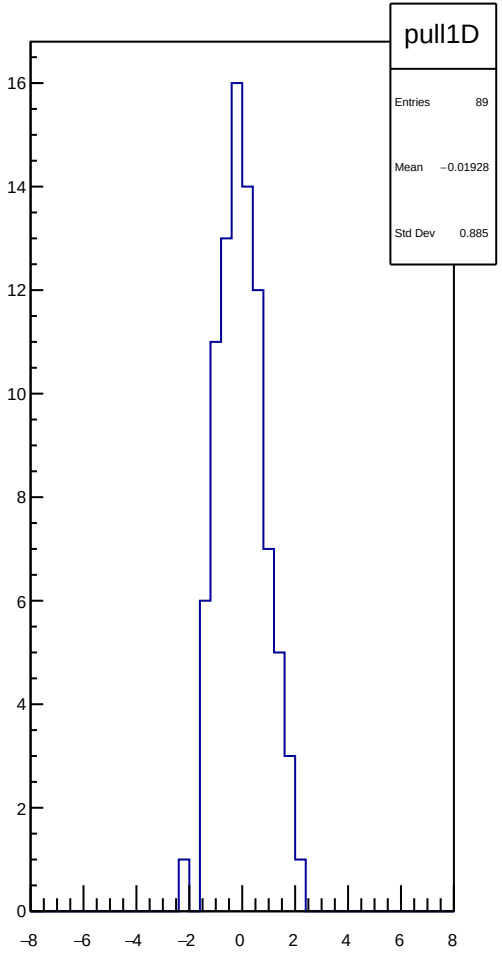

eigen_dit_asym_at2_avg_rms vs run
χ^2 / ndf 943.5 / 88
p0 1858 ± 1.413
2050
2000
1950
1900
1850
1800
1750

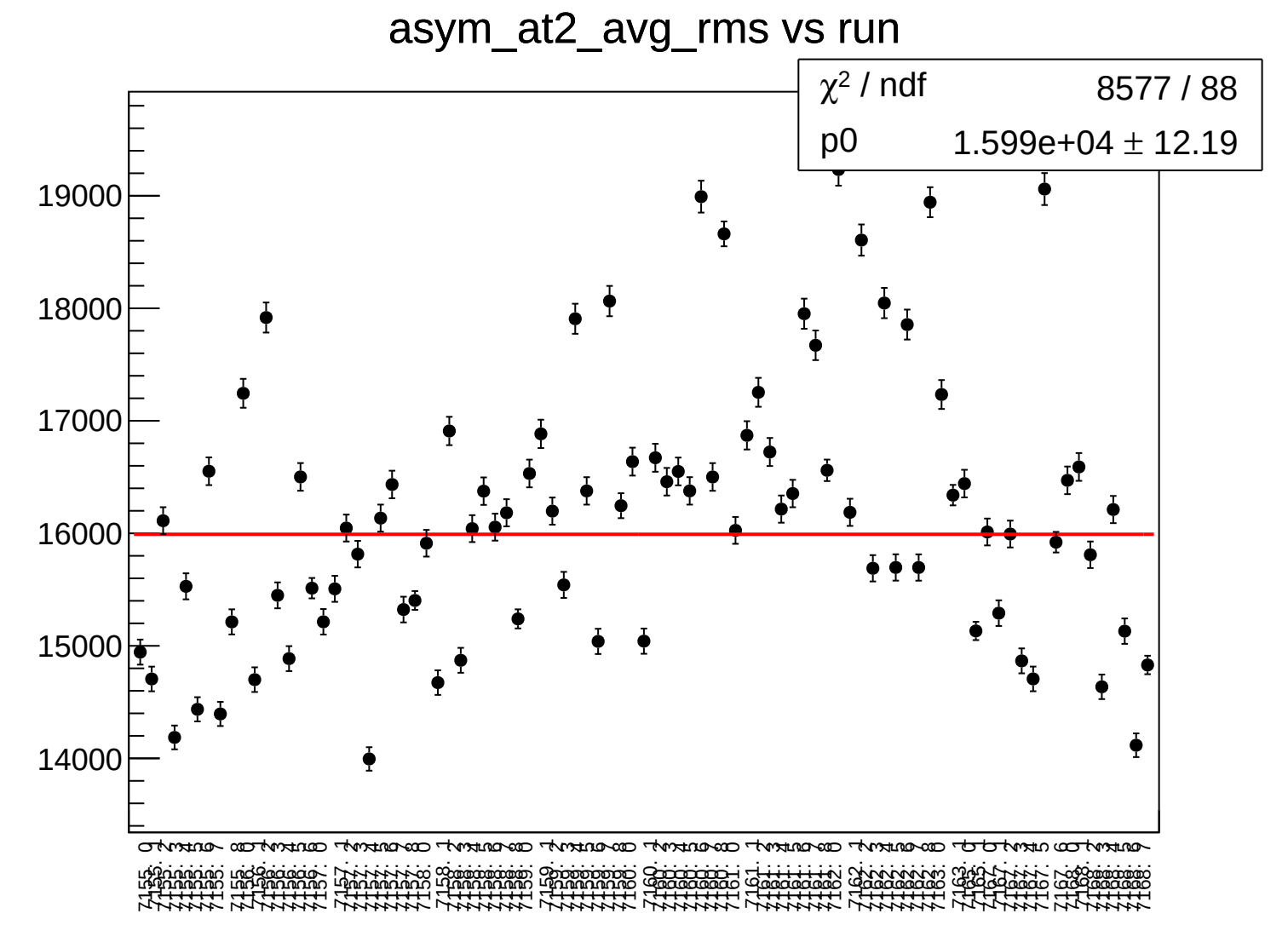

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.66 / 88
p0 −2428 ± 1.744e+04
pull
Entries 89
Mean −9.214
Std Dev 0

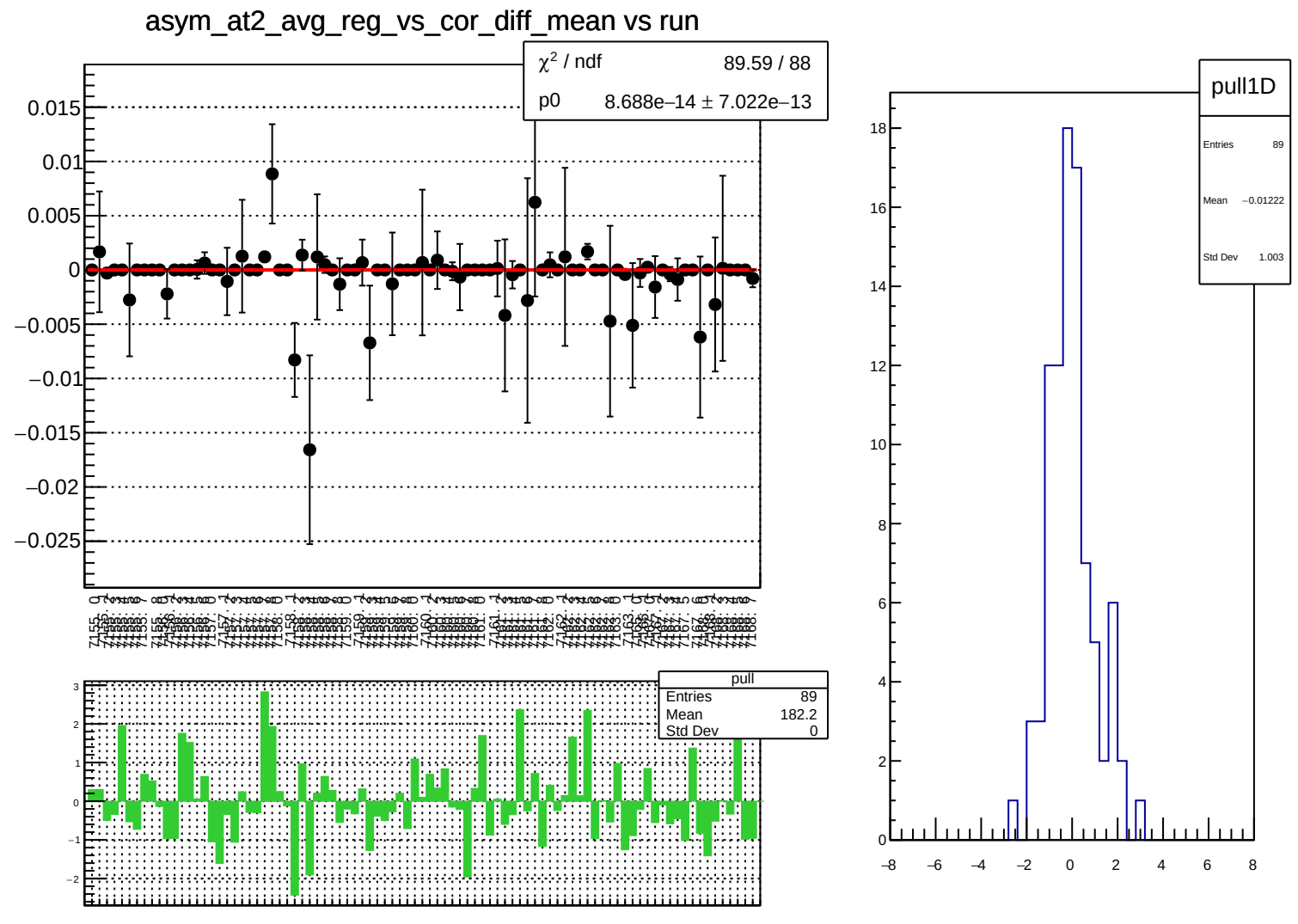

pull1D
Entries 89
Mean 0.02334
Std Dev 0.878

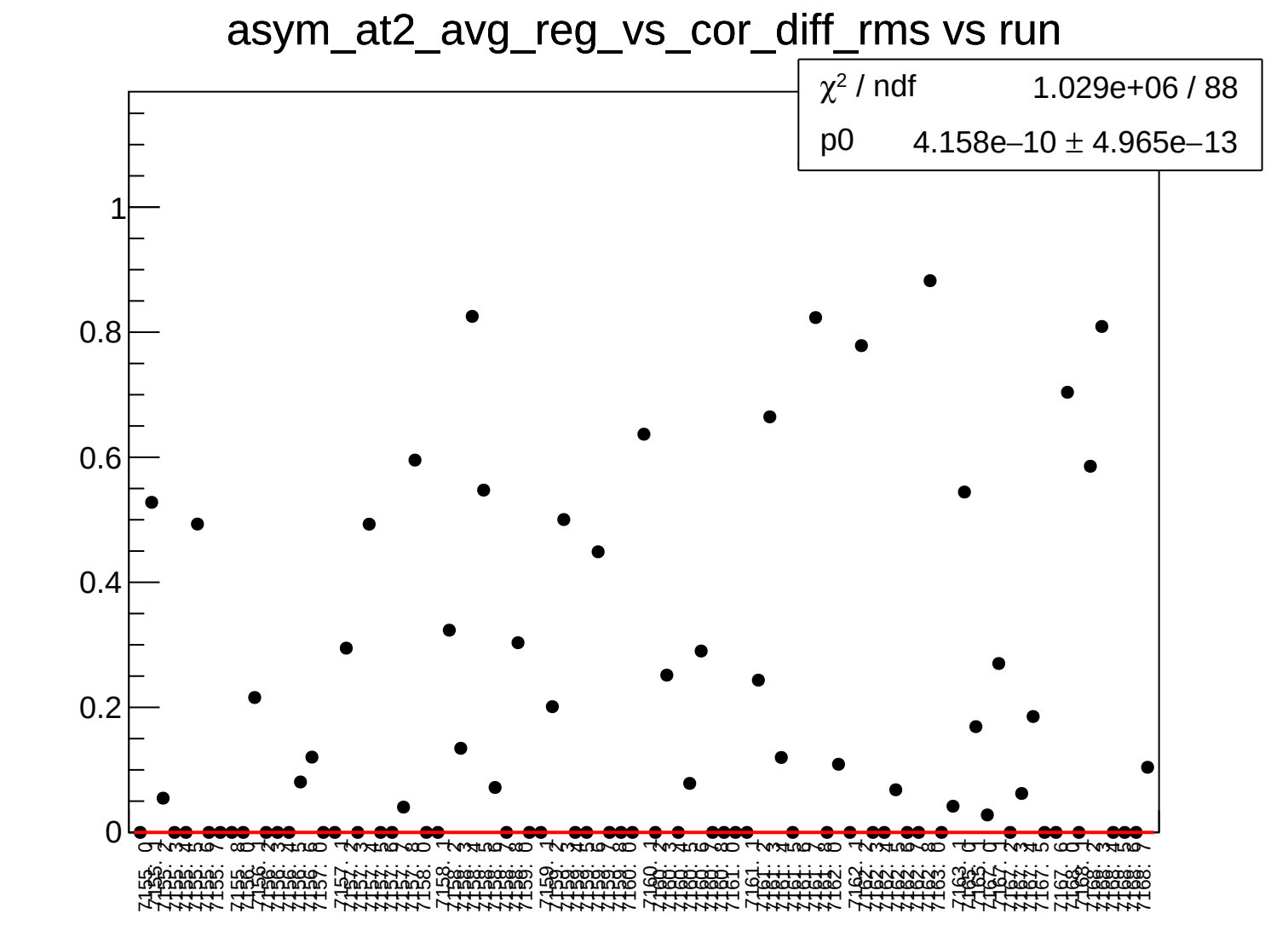

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8806 / 88
p0 1.618e+04 ± 12.33
20000
19000
18000
17000
16000
15000
14000

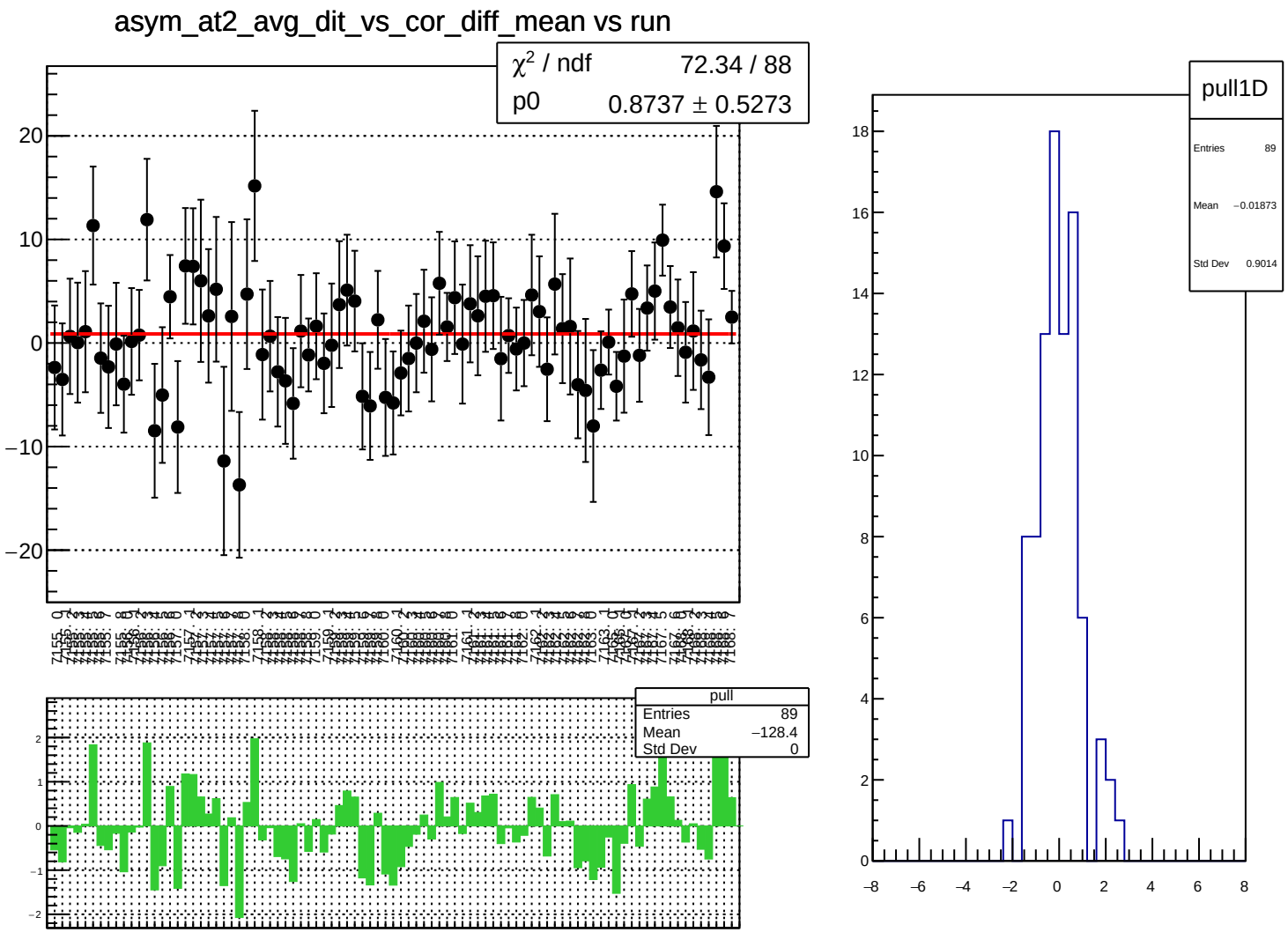

asym_at2_avg_mean vs run
×10^3
χ² / ndf 69.74 / 88
p0 −446.7 ± 1.724e+04
pull
Entries 89
Mean −41.92
Std Dev 0

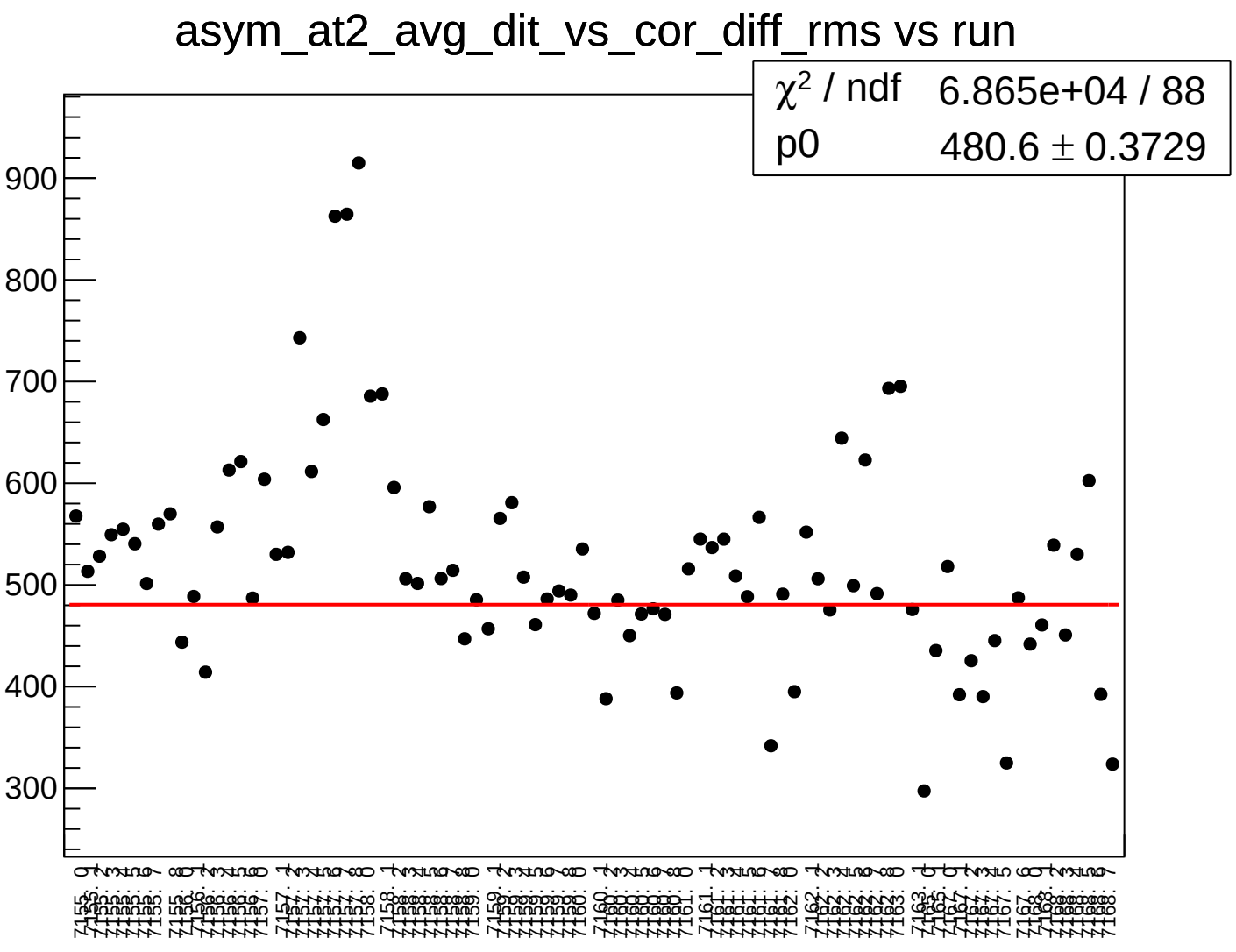

pull1D
Entries 89
Mean −0.01928
Std Dev 0.885

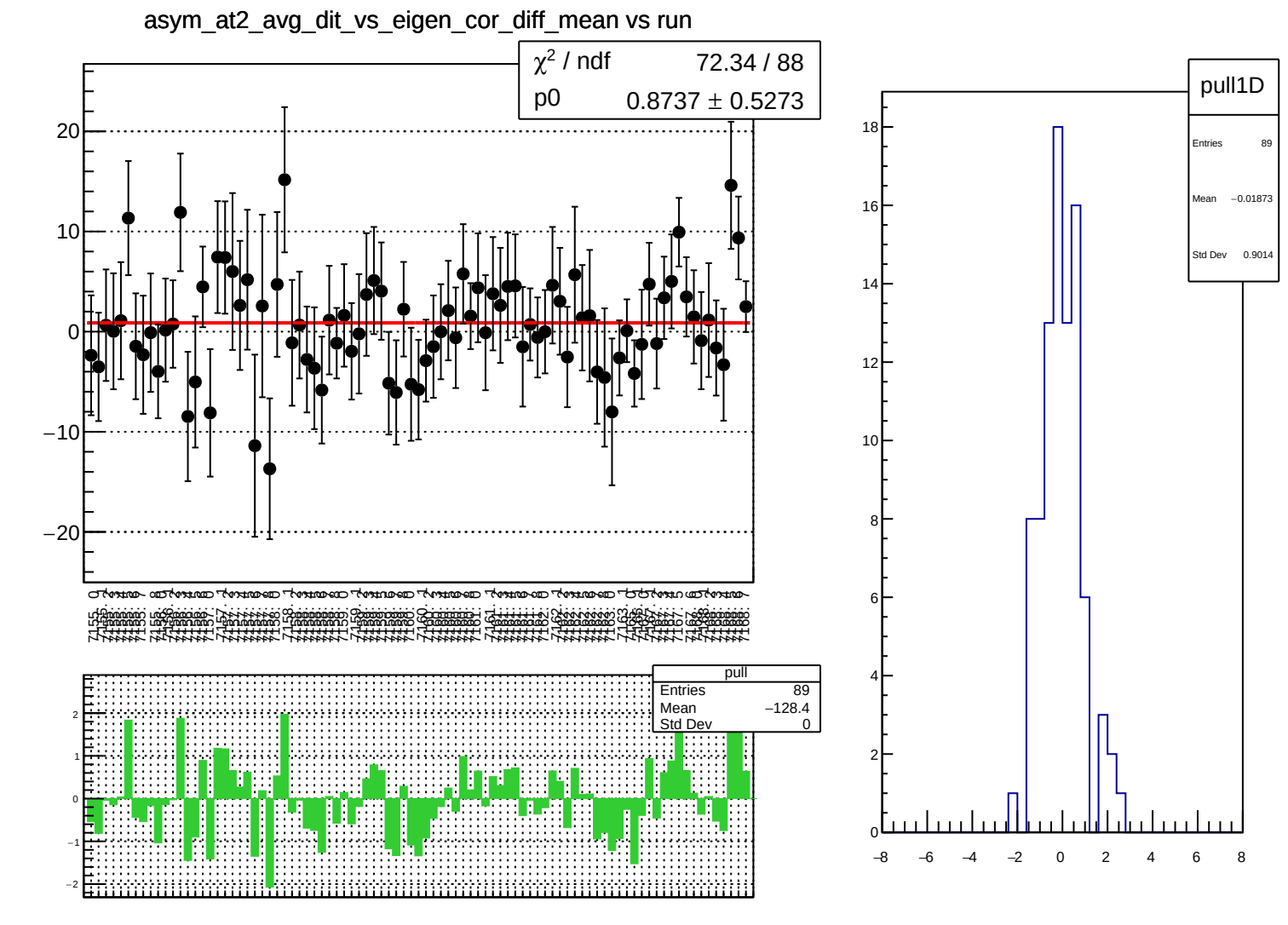

asym_at2_avg_rms vs run
χ² / ndf 8577 / 88
p0 1.599e+04 ± 12.19
19000
18000
17000
16000
15000
14000

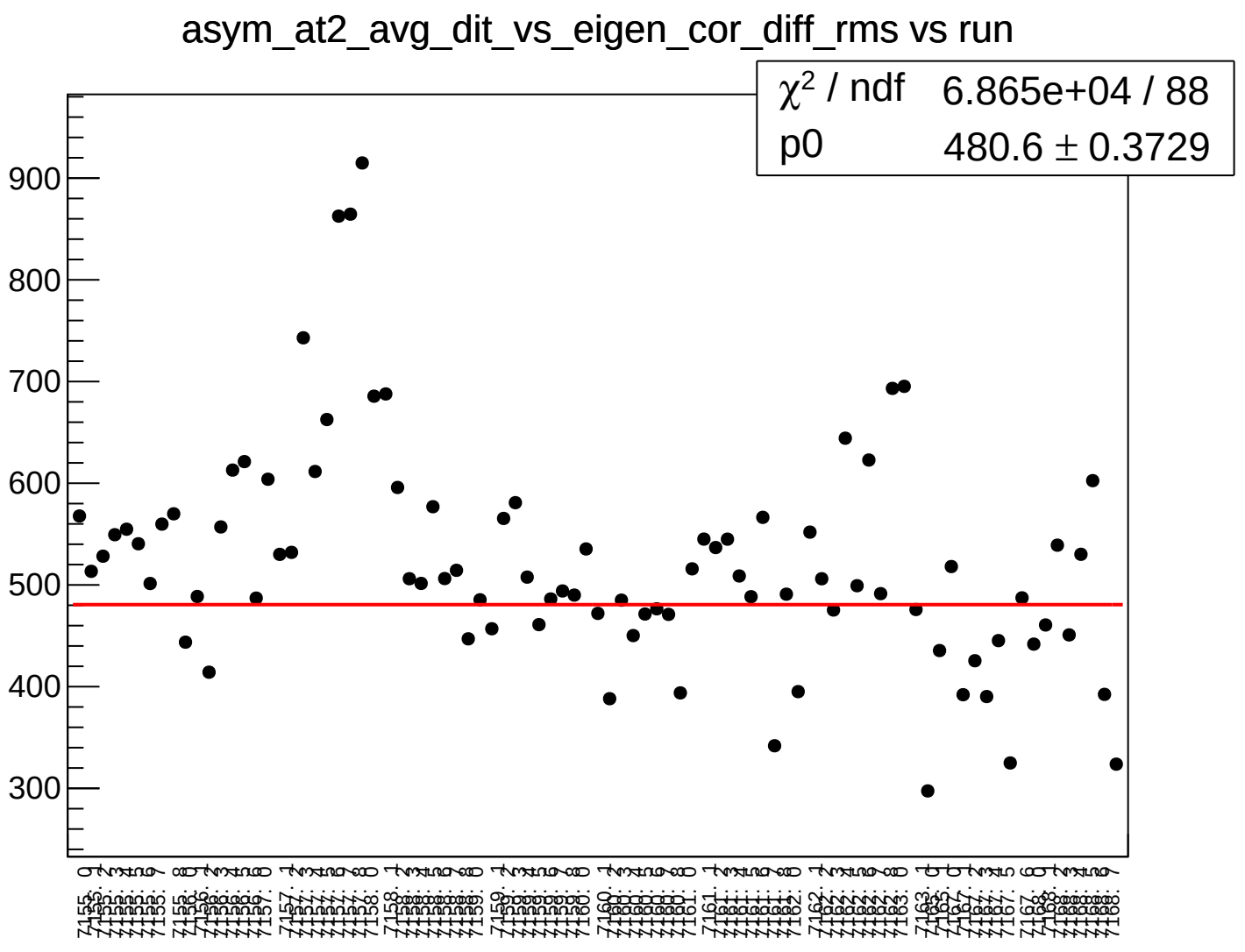

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.59 / 88
p0 8.688e−14 ± 7.022e−13
pull
Entries 89
Mean 182.2
Std Dev 0
pull1D
Entries 89
Mean −0.01222
Std Dev 1.003

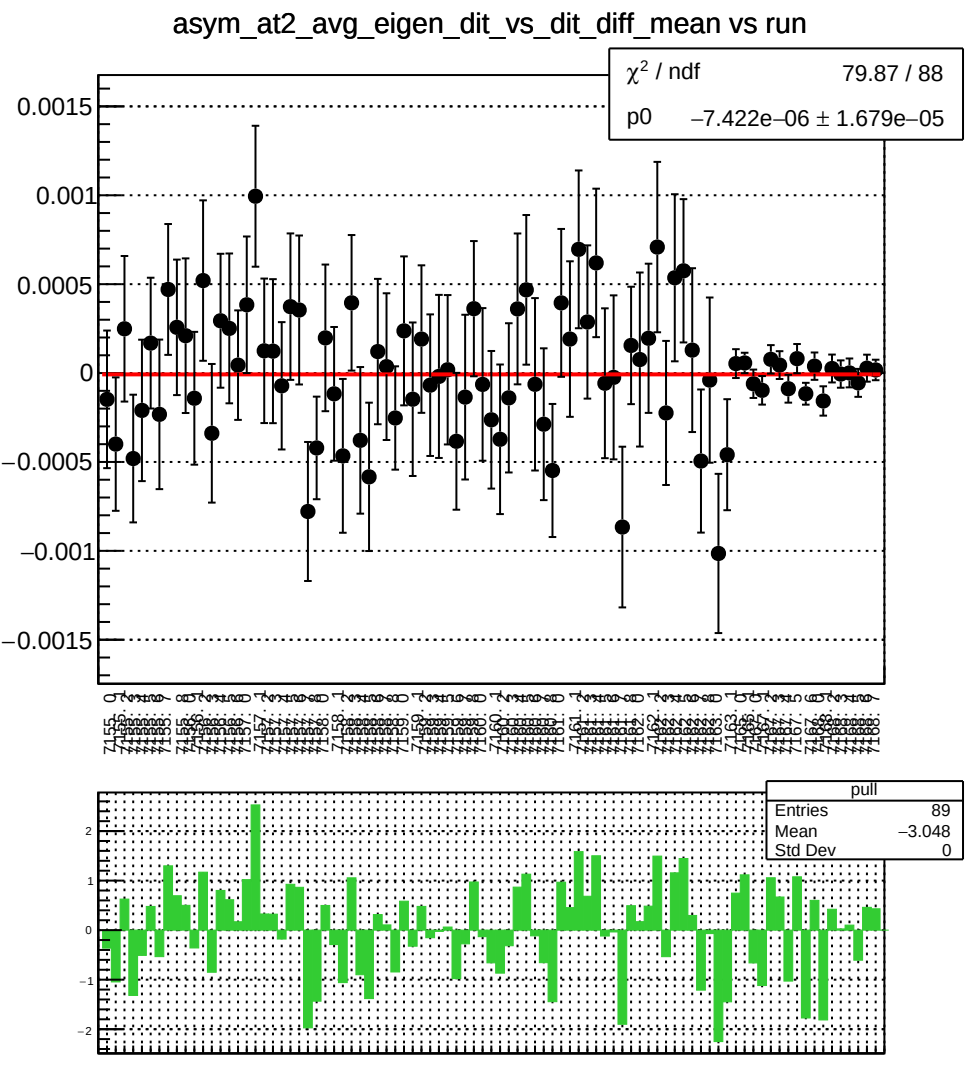

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 88
p0 4.158e−10 ± 4.965e−13
1
0.8
0.6
0.4
0.2
0

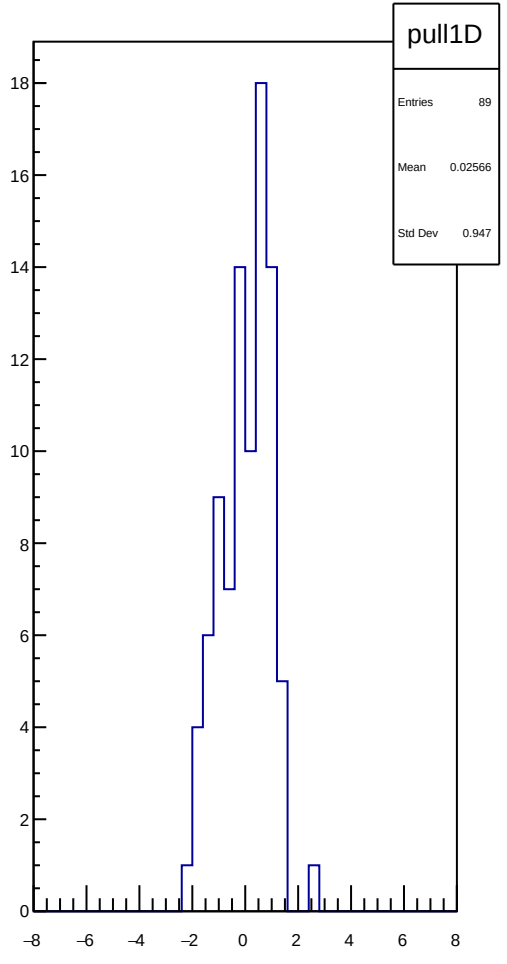

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.34 / 88
p0 0.8737 ± 0.5273
pull
Entries 89
Mean −128.4
Std Dev 0
pull1D
Entries 89
Mean −0.01873
Std Dev 0.9014

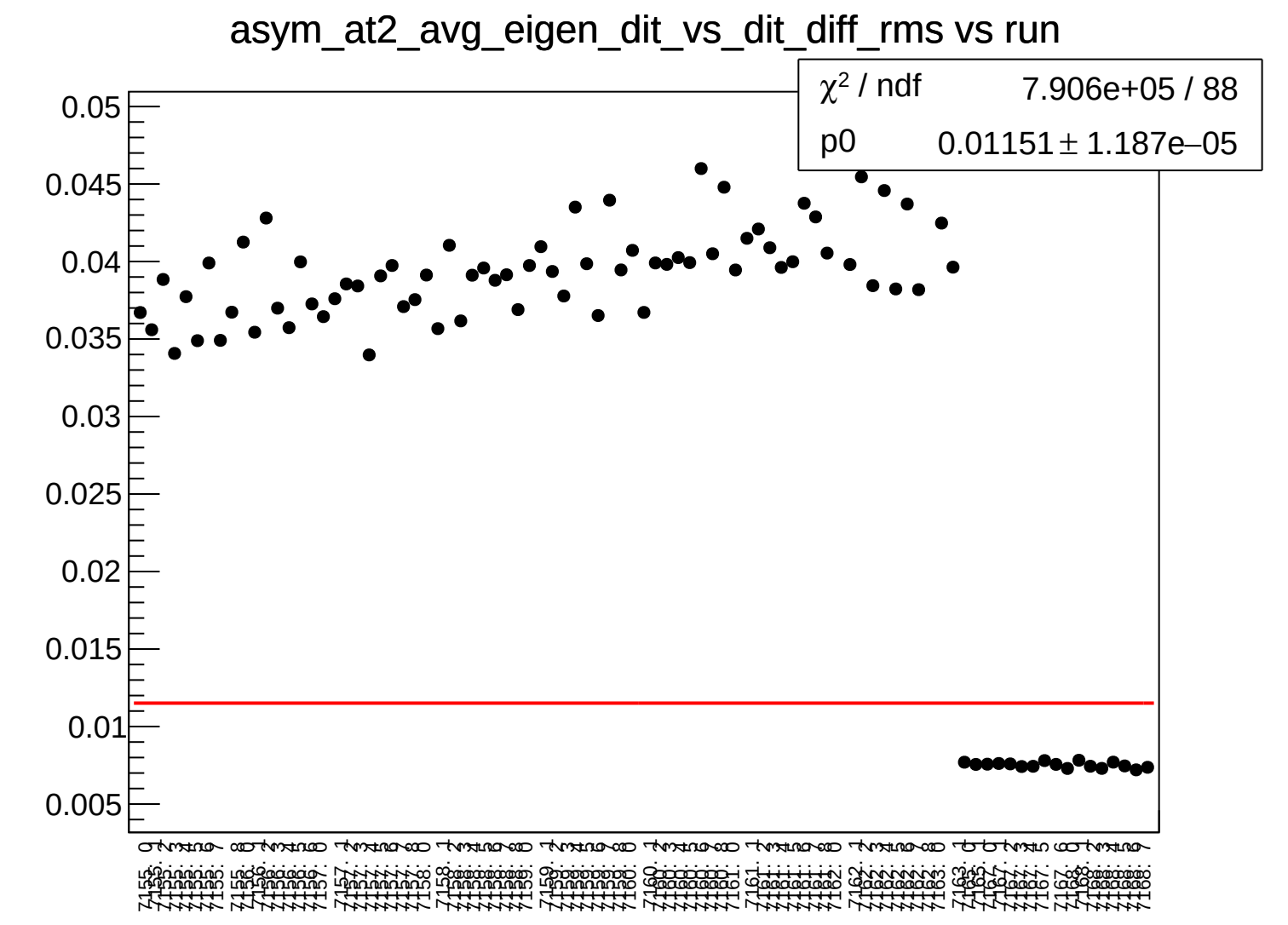

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.865e+04 / 88
p0 480.6 ± 0.3729
900
800
700
600
500
400
300

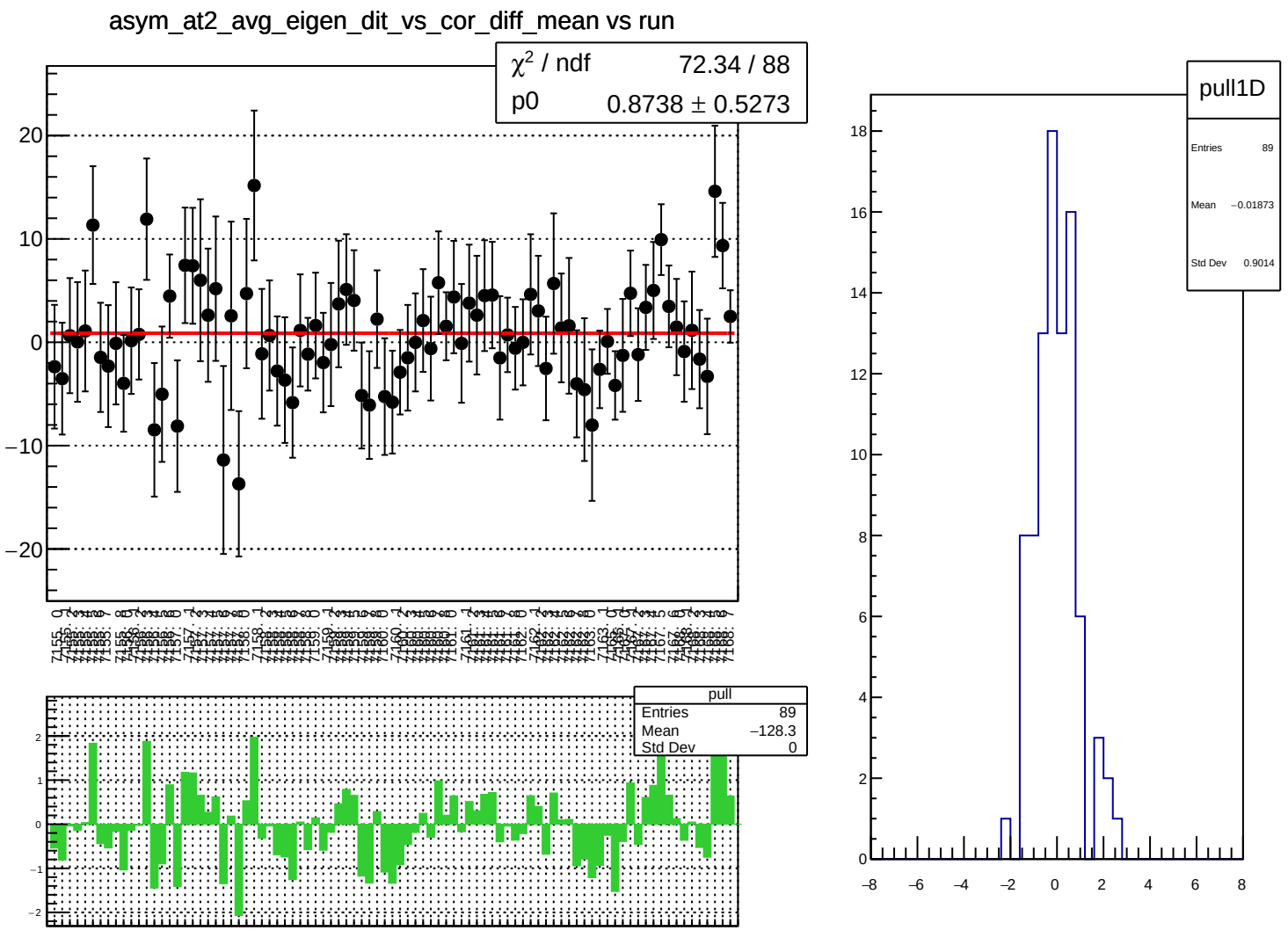

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.34 / 88
p0 0.8737 ± 0.5273
pull
Entries 89
Mean −128.4
Std Dev 0
pull1D
Entries 89
Mean −0.01873
Std Dev 0.9014

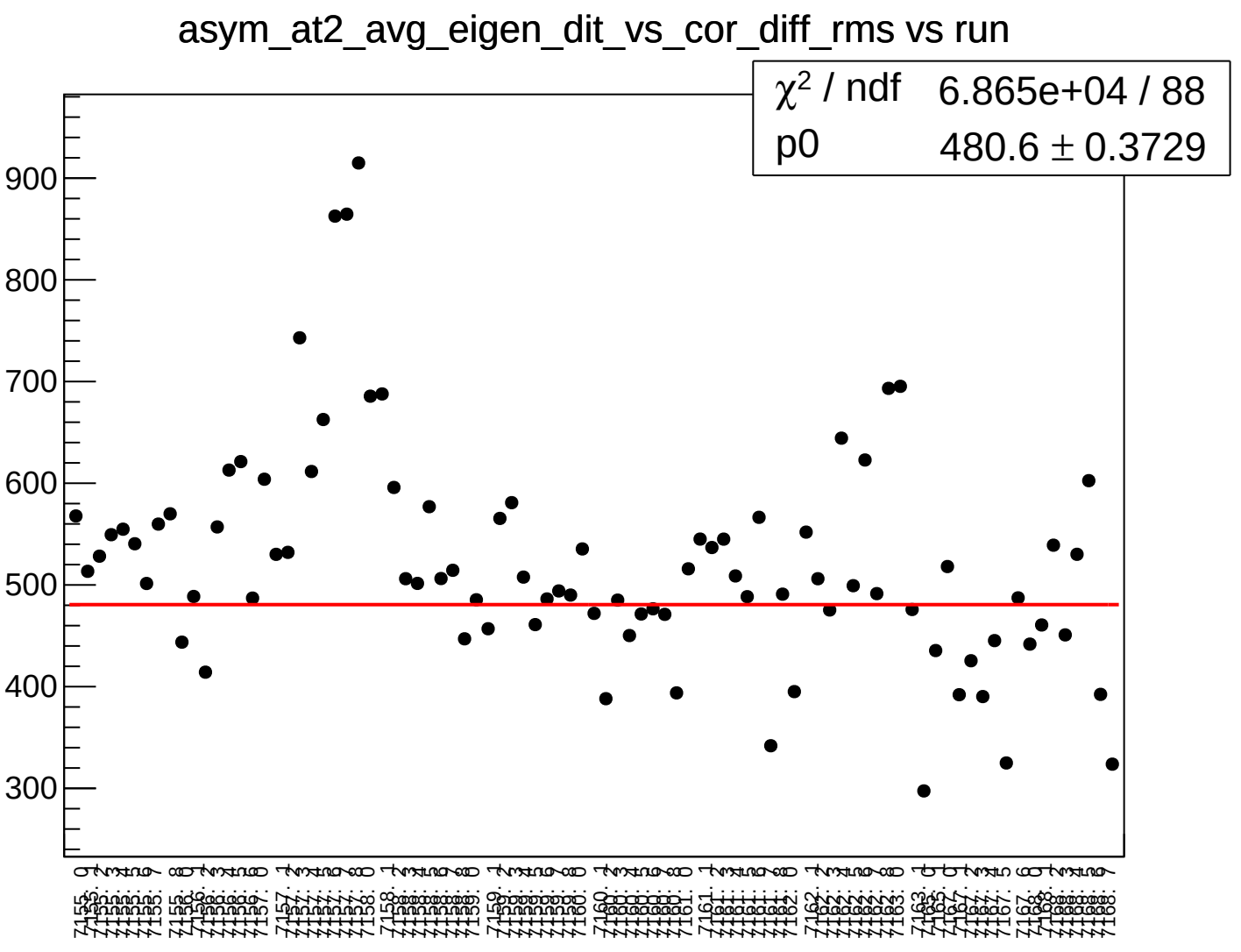

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.865e+04 / 88
p0 480.6 ± 0.3729
900
800
700
600
500
400
300

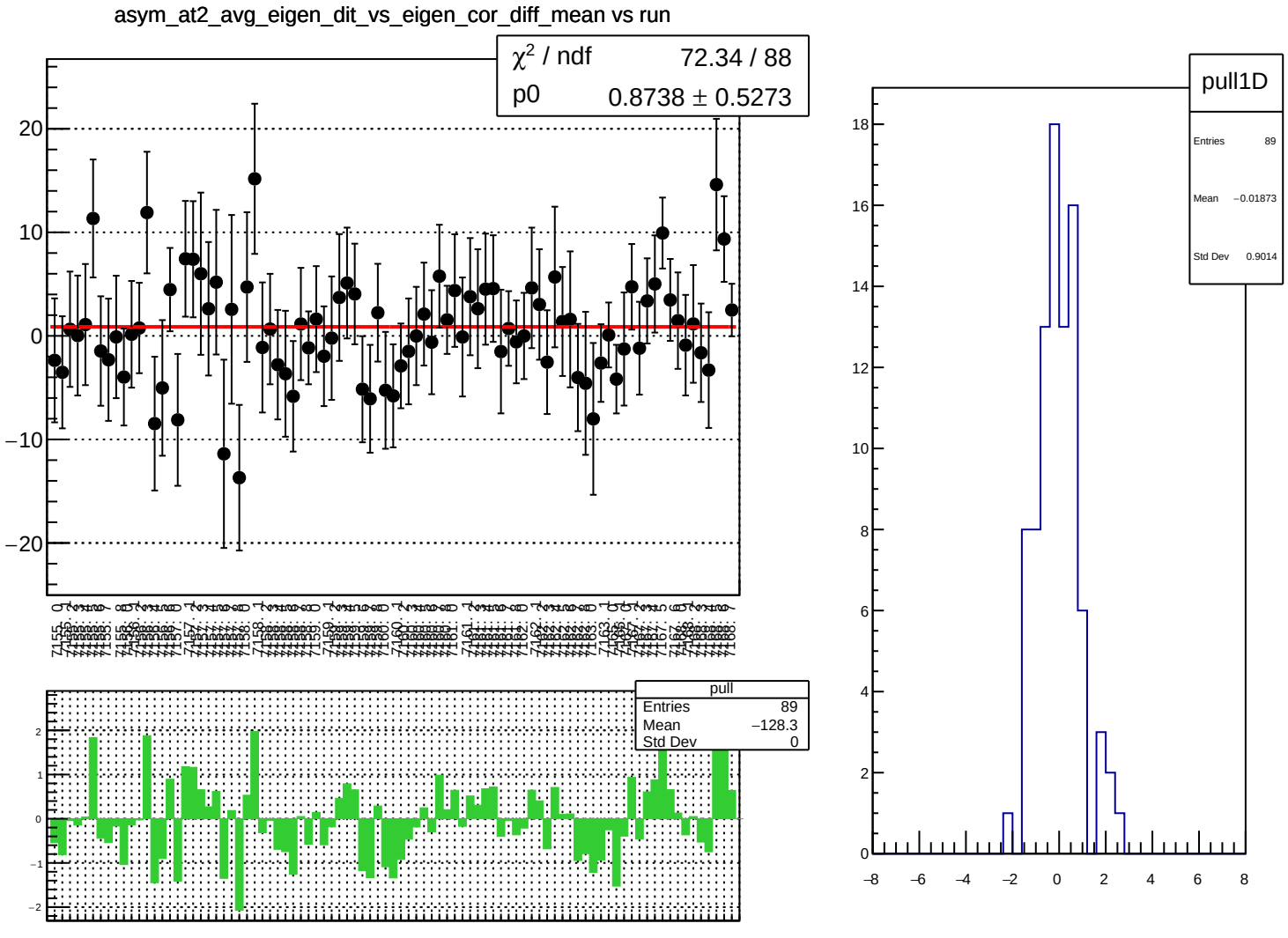

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 79.87 / 88
p0 −7.422e−06 ± 1.679e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −3.048
Std Dev 0
2
1
0
−1
−2

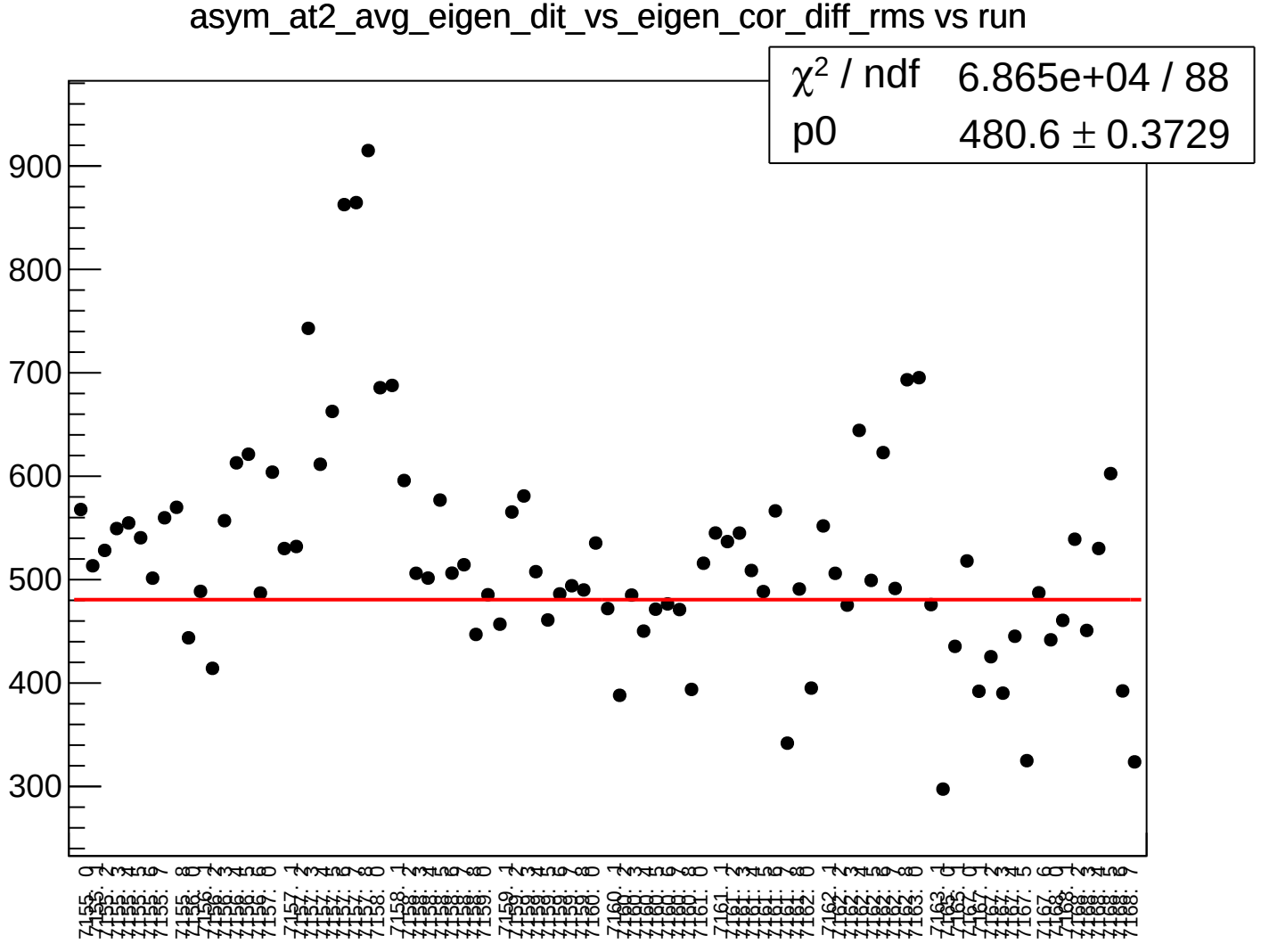

pull1D
Entries 89
Mean 0.02566
Std Dev 0.947
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

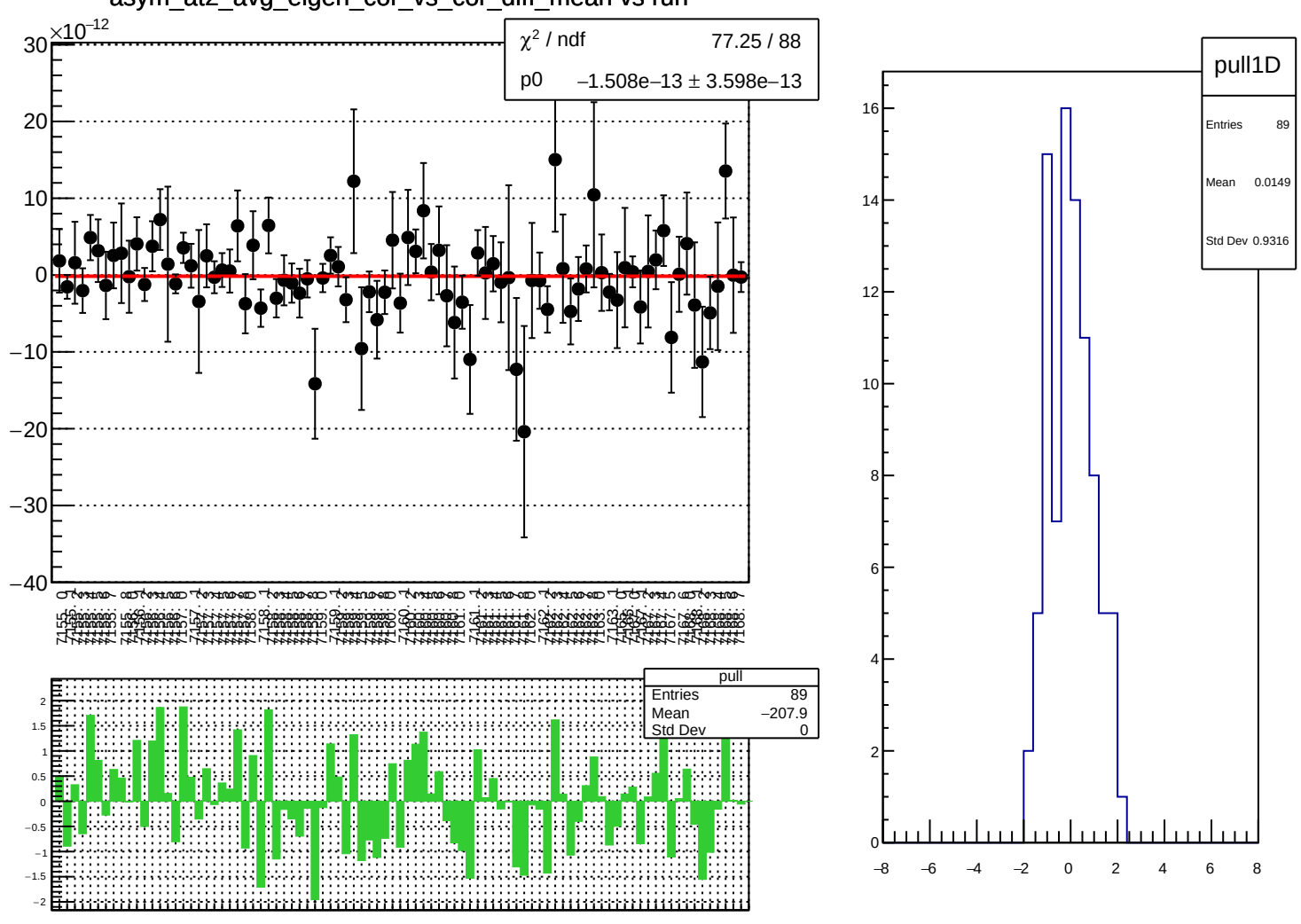

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.906e+05 / 88
p0 0.01151 ± 1.187e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

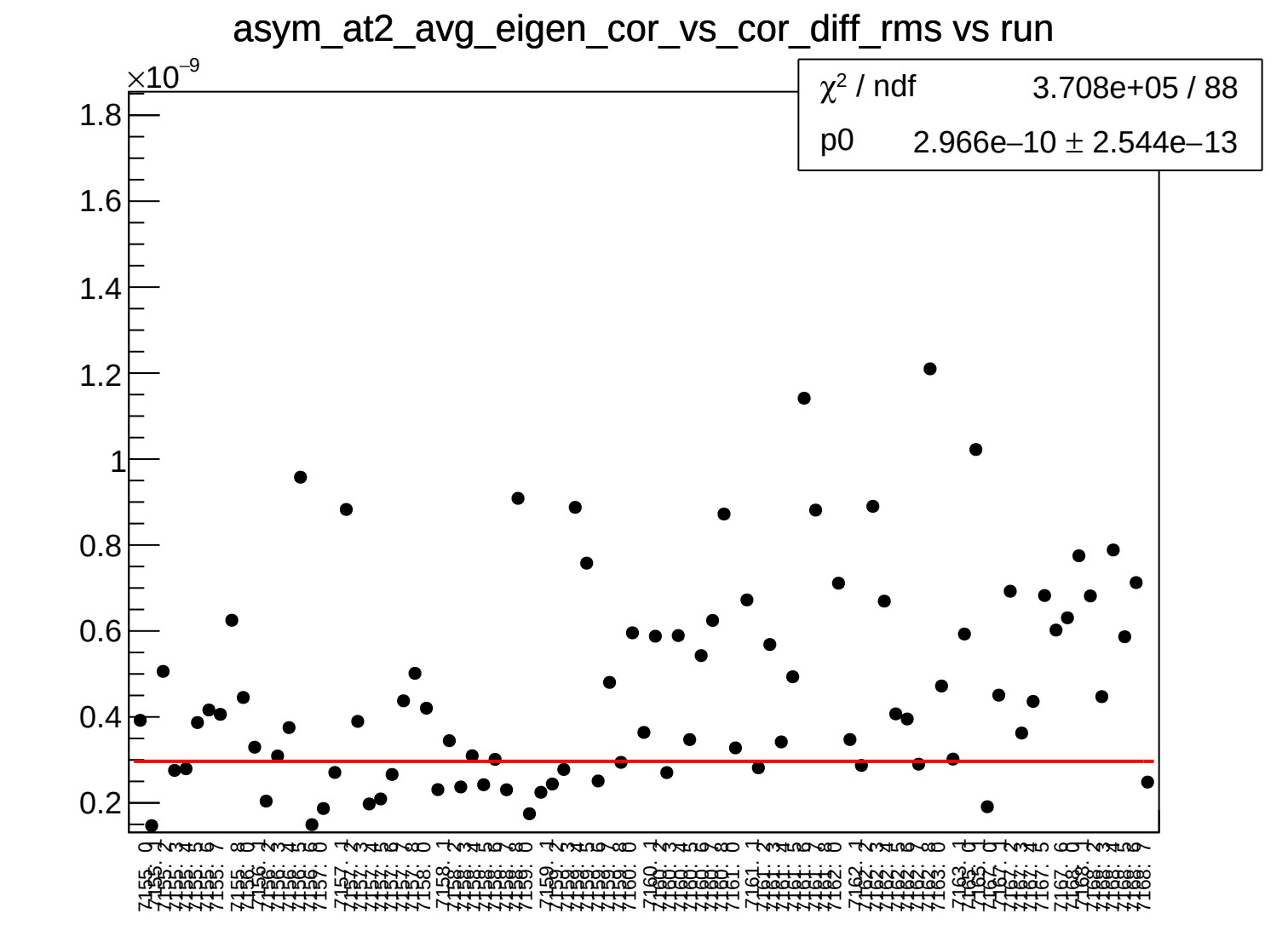

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.34 / 88
p0 0.8738 ± 0.5273
pull
Entries 89
Mean −128.3
Std Dev 0
pull1D
Entries 89
Mean −0.01873
Std Dev 0.9014

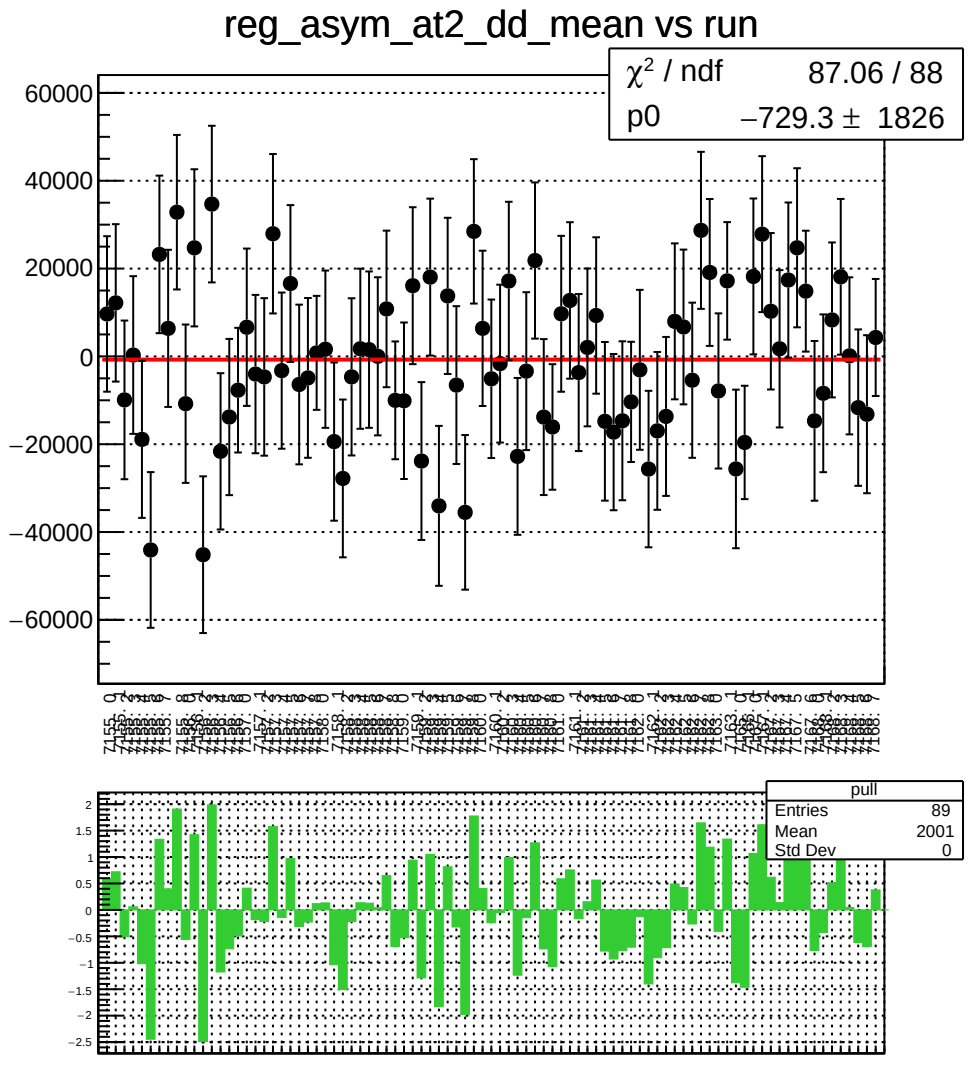

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.865e+04 / 88
p0 480.6 ± 0.3729
900
800
700
600
500
400
300

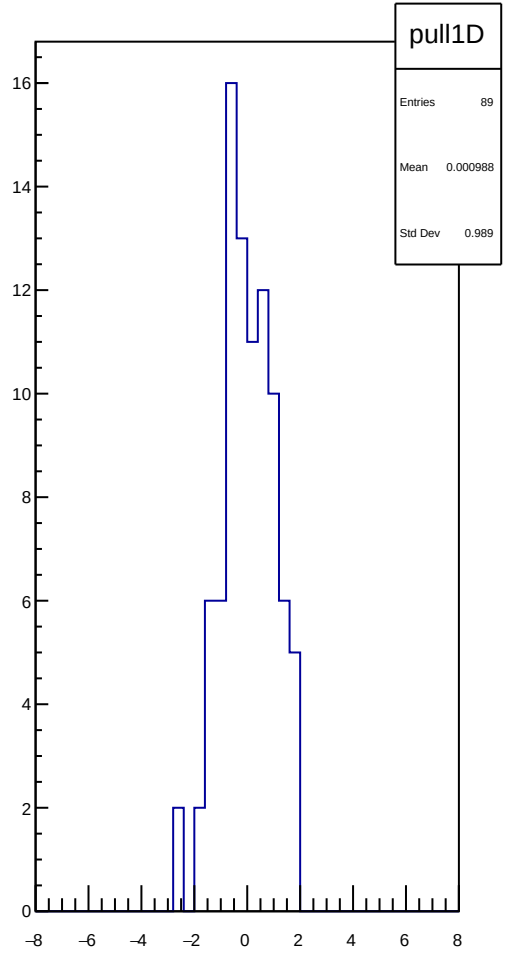

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.34 / 88
p0 0.8738 ± 0.5273
pull
Entries 89
Mean −128.3
Std Dev 0
pull1D
Entries 89
Mean −0.01873
Std Dev 0.9014


asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.865e+04 / 88
p0 480.6 ± 0.3729
900
800
700
600
500
400
300


asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.25 / 88
p0 −1.508e−13 ± 3.598e−13
pull
Entries 89
Mean −207.9
Std Dev 0
pull1D
Entries 89
Mean 0.0149
Std Dev 0.9316


asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.708e+05 / 88
p0 2.966e−10 ± 2.544e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2


reg_asym_at2_dd_mean vs run
χ² / ndf 87.06 / 88
p0 −729.3 ± 1826
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 2001
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 89
Mean 0.000988
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
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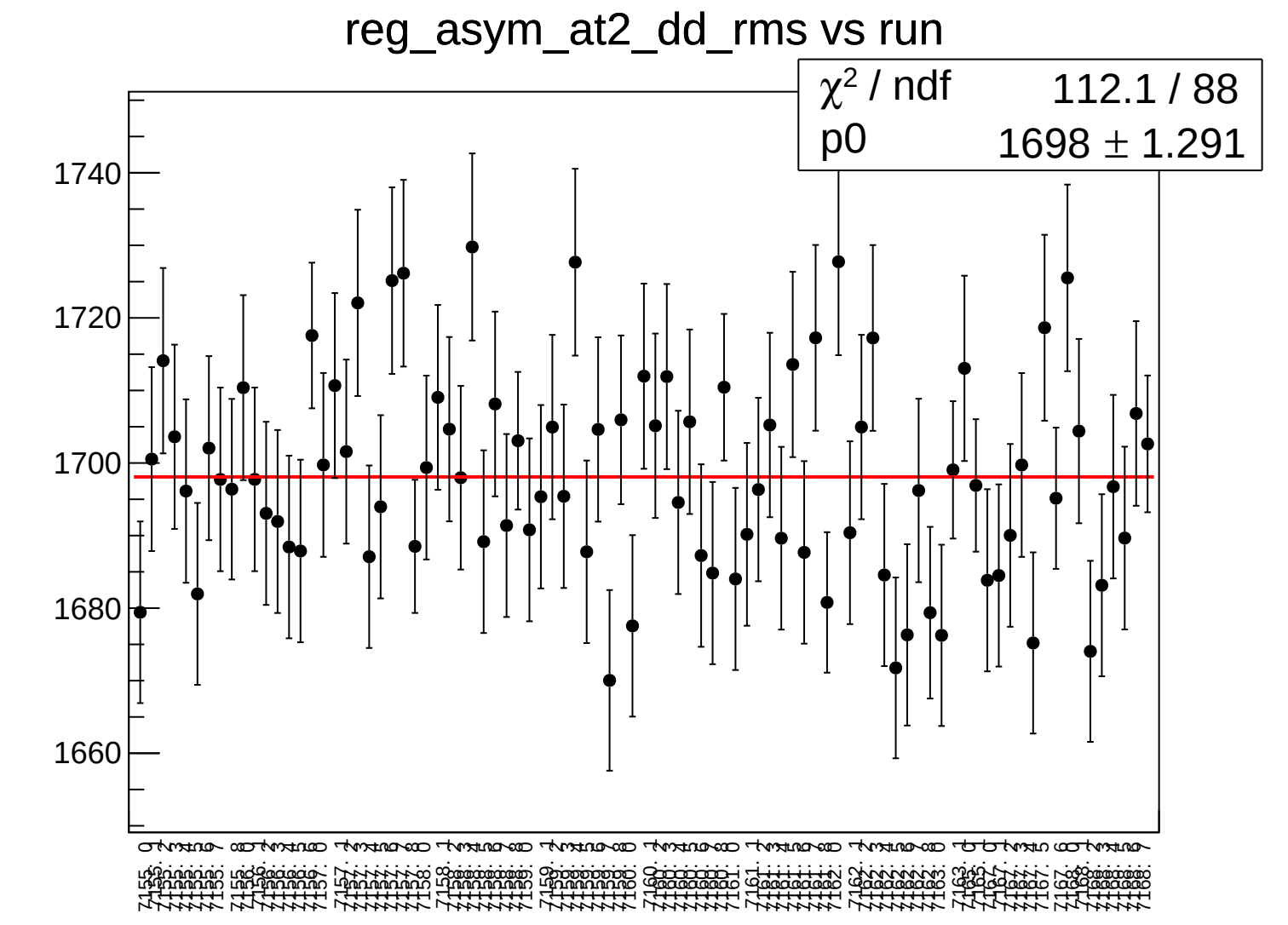
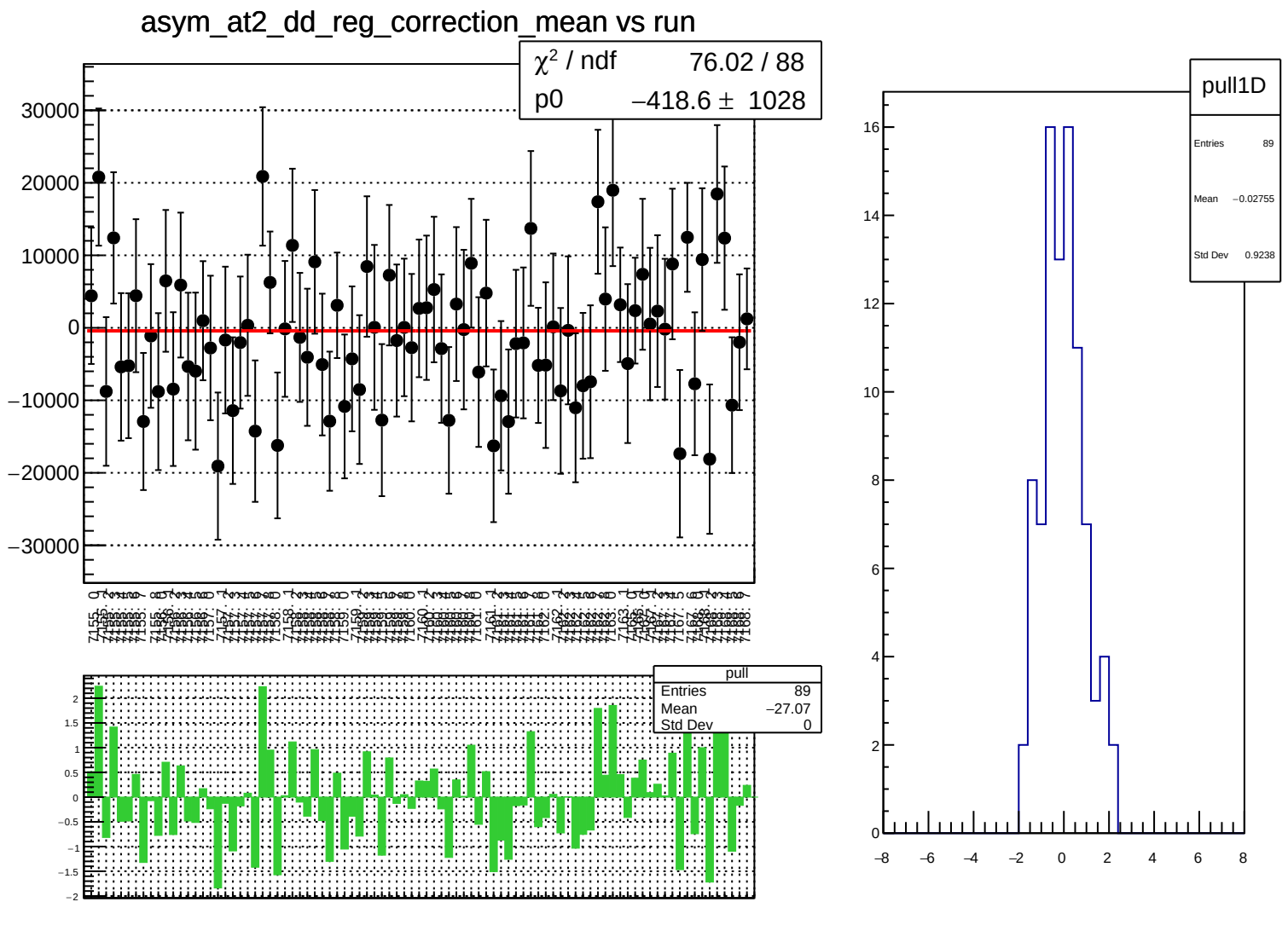
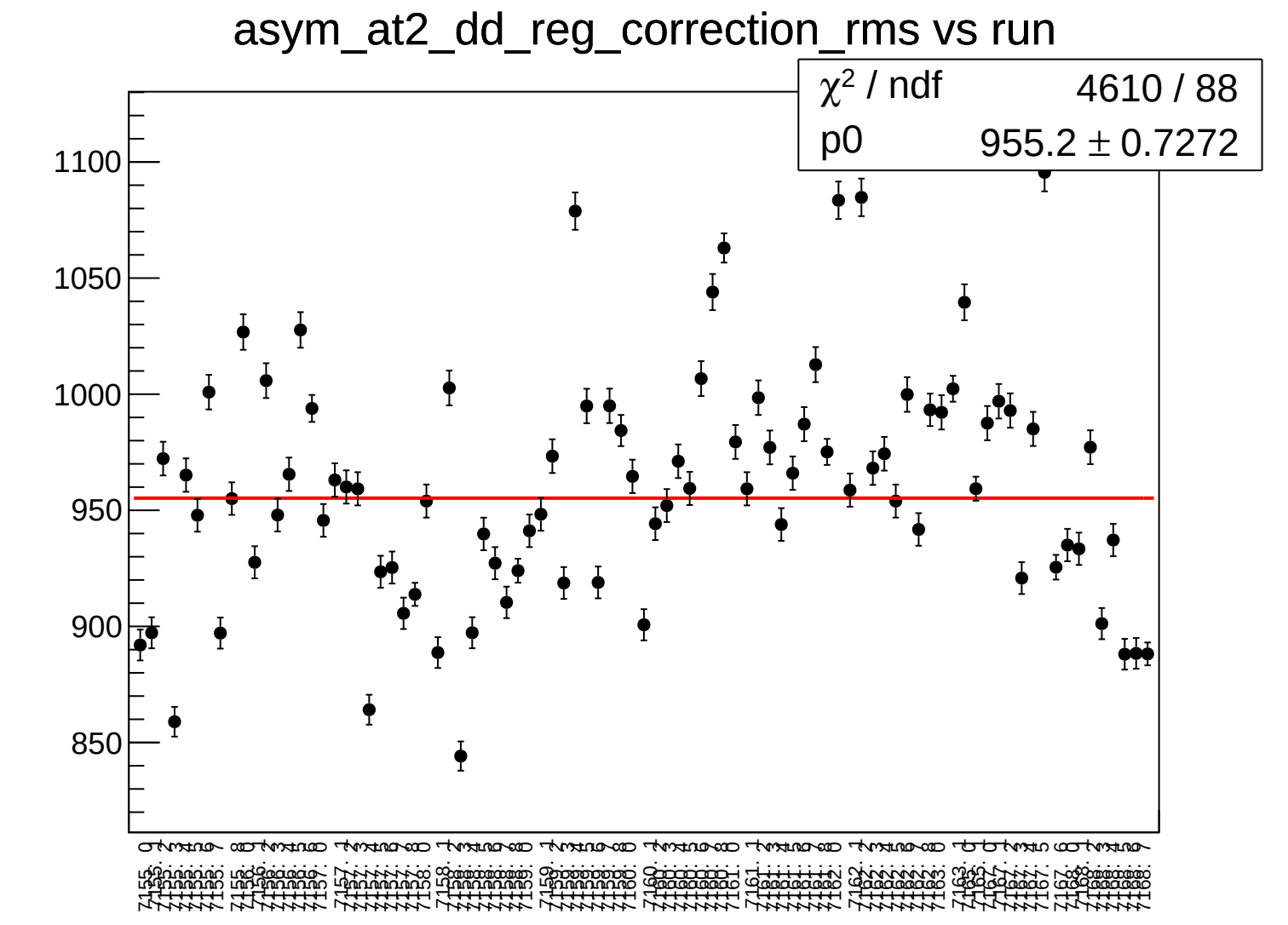
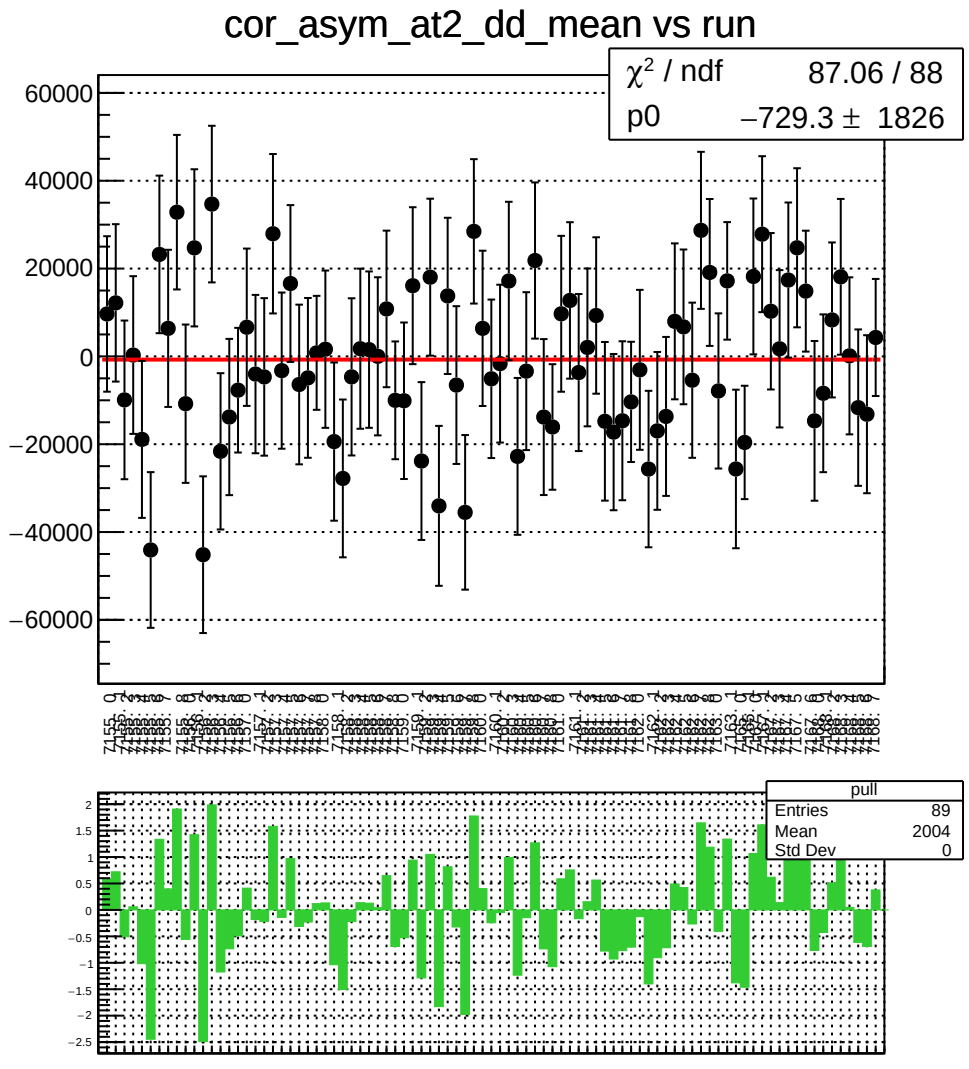
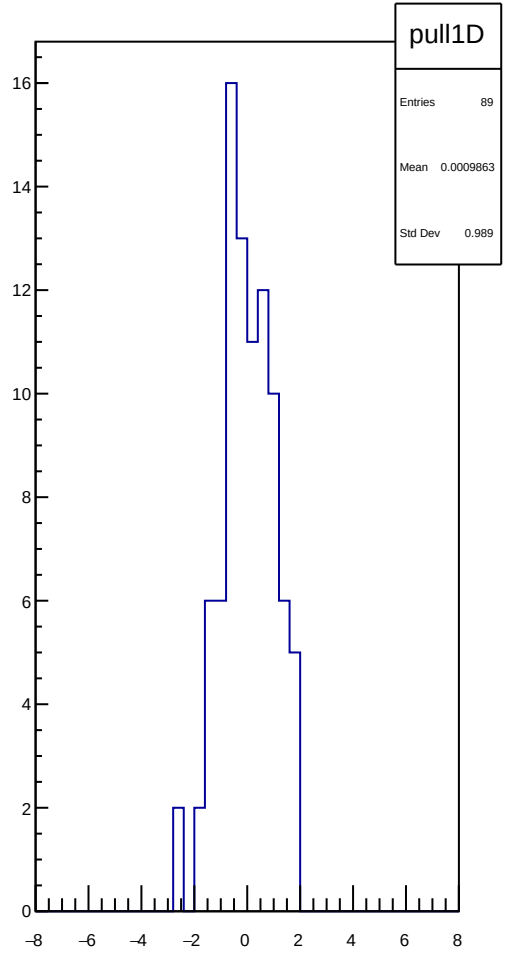
0
2
4
6
8

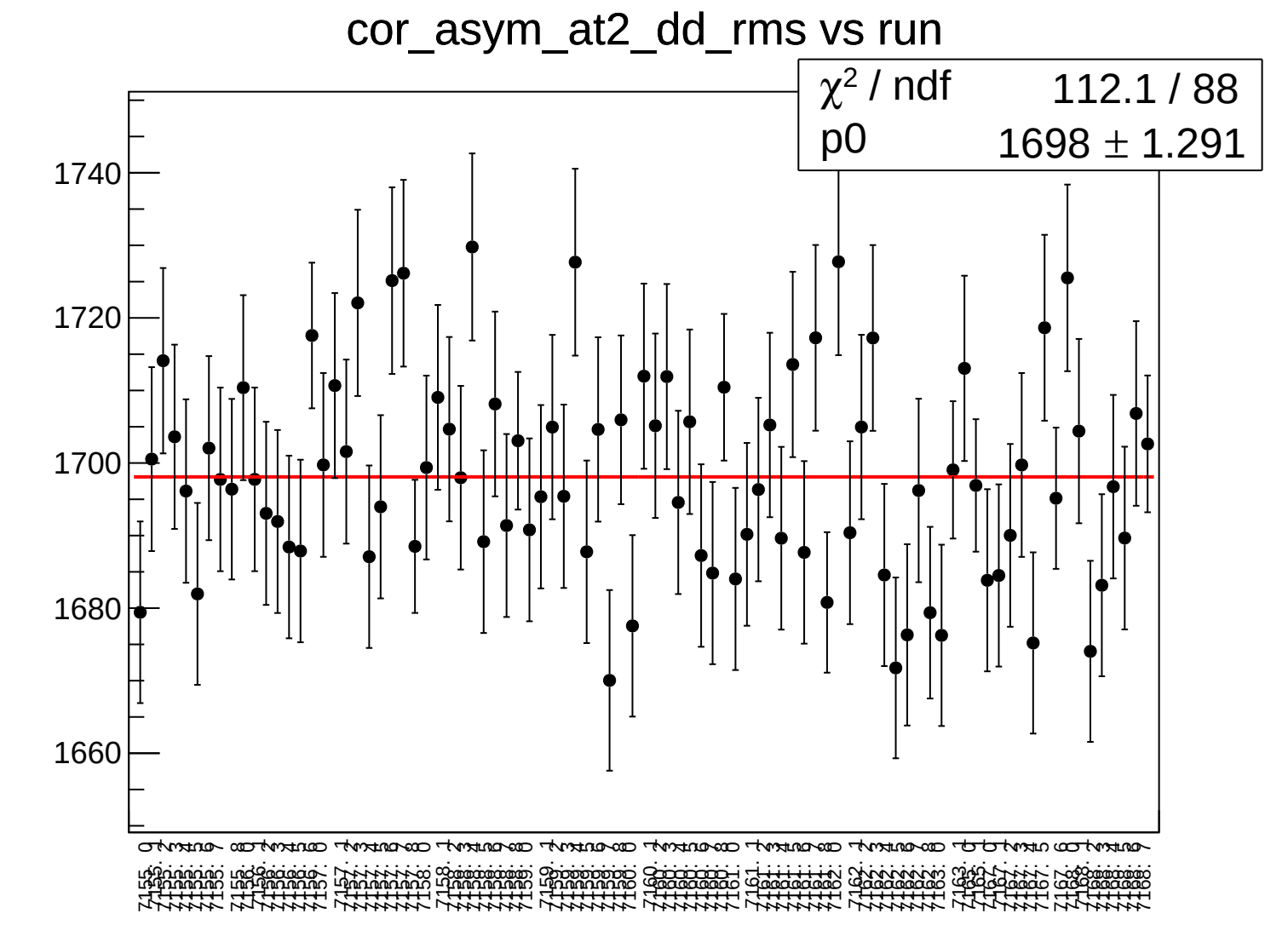

reg_asym_at2_dd_rms vs run
χ² / ndf 112.1 / 88
p0 1698 ± 1.291
1740
1720
1700
1680
1660

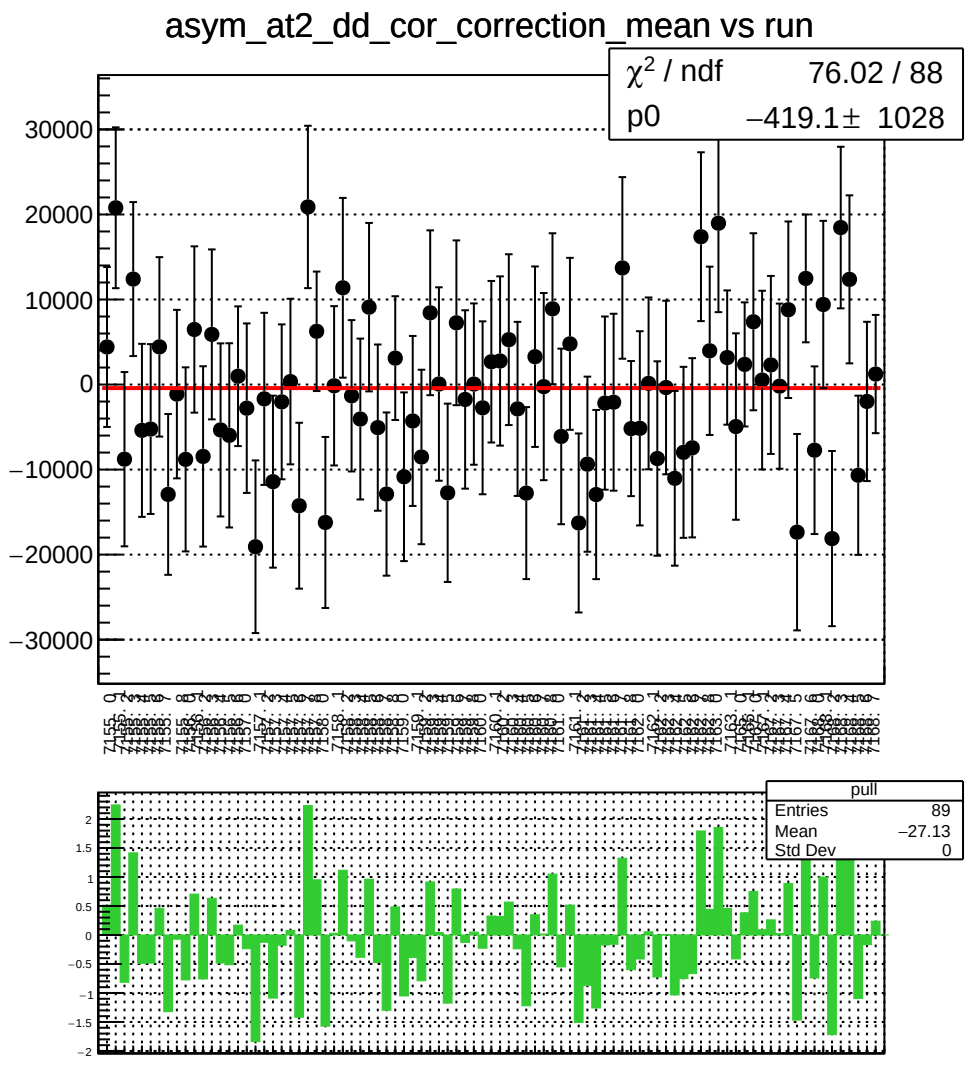

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 76.02 / 88
p0 −418.6 ± 1028
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −27.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.02755
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

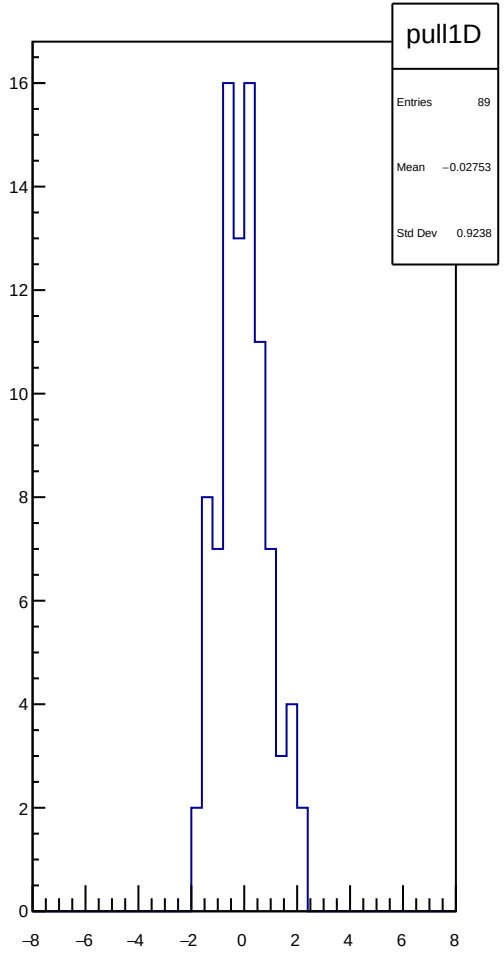

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 4610 / 88
p0 955.2 ± 0.7272
1100
1050
1000
950
900
850

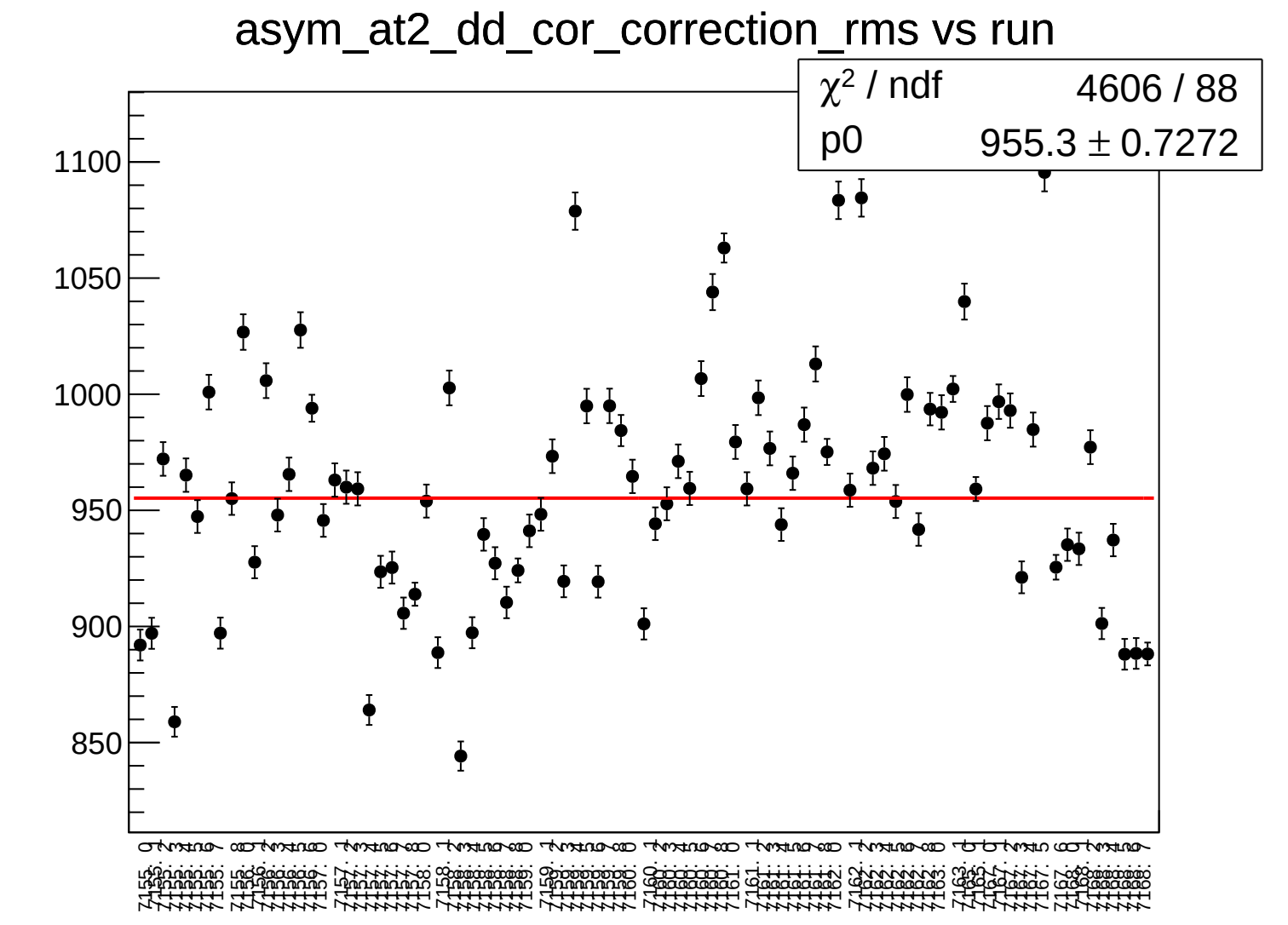

cor_asym_at2_dd_mean vs run
χ² / ndf 87.06 / 88
p0 −729.3 ± 1826
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 2004
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

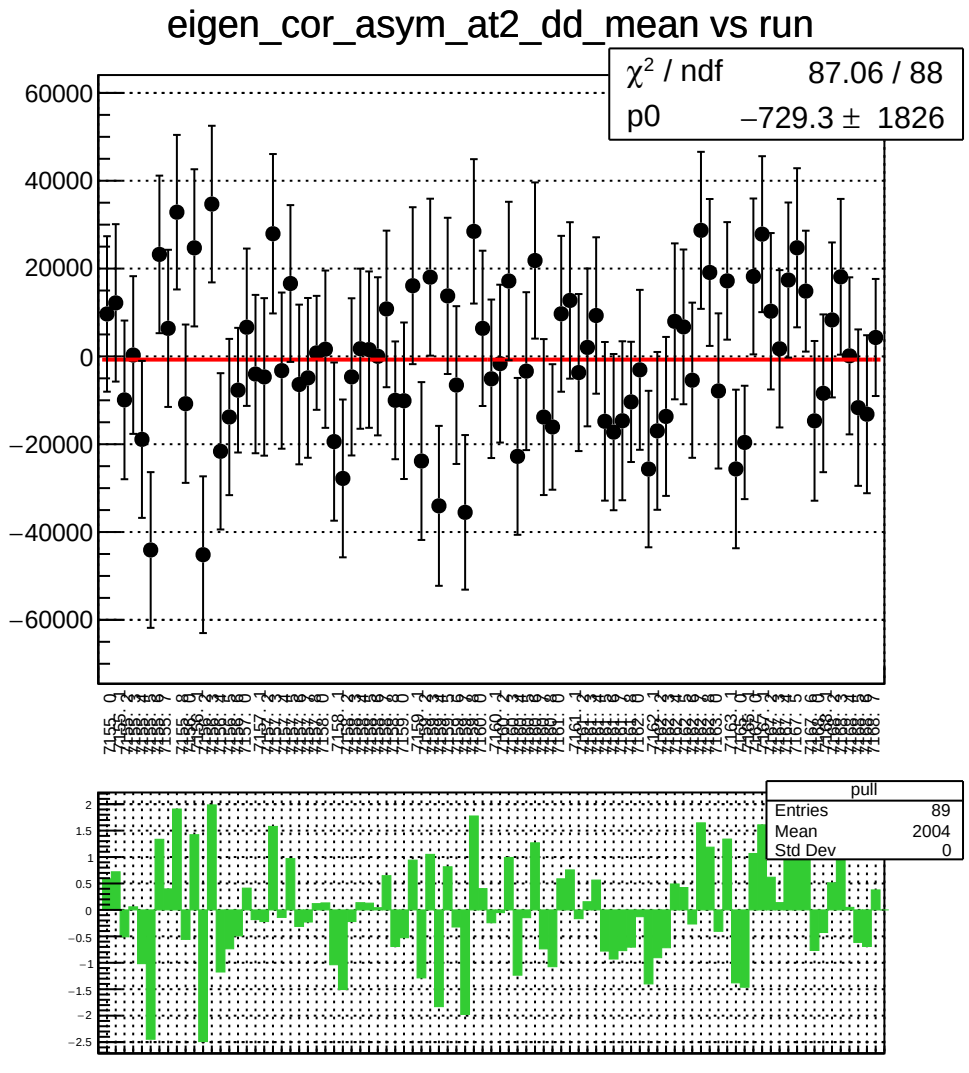

pull1D
Entries 89
Mean 0.0009863
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

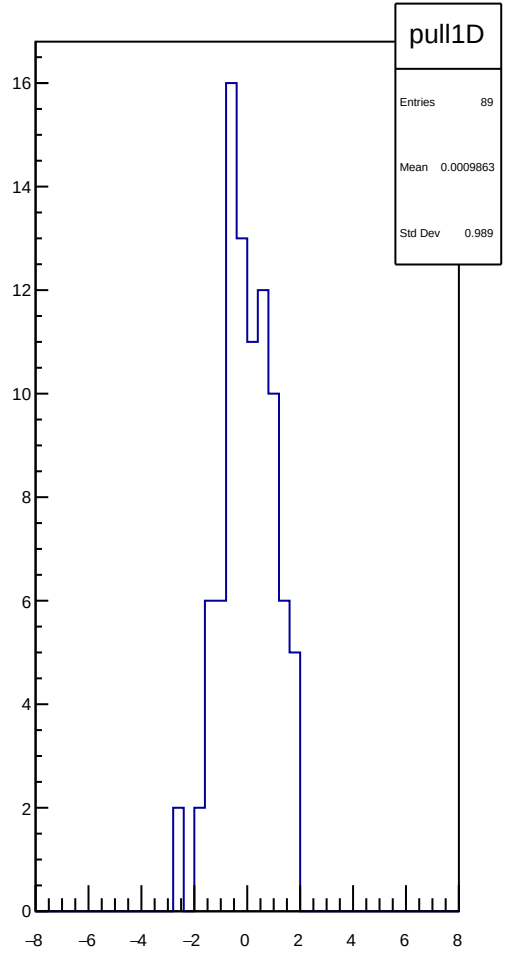

cor_asym_at2_dd_rms vs run
χ² / ndf 112.1 / 88
p0 1698 ± 1.291
1740
1720
1700
1680
1660

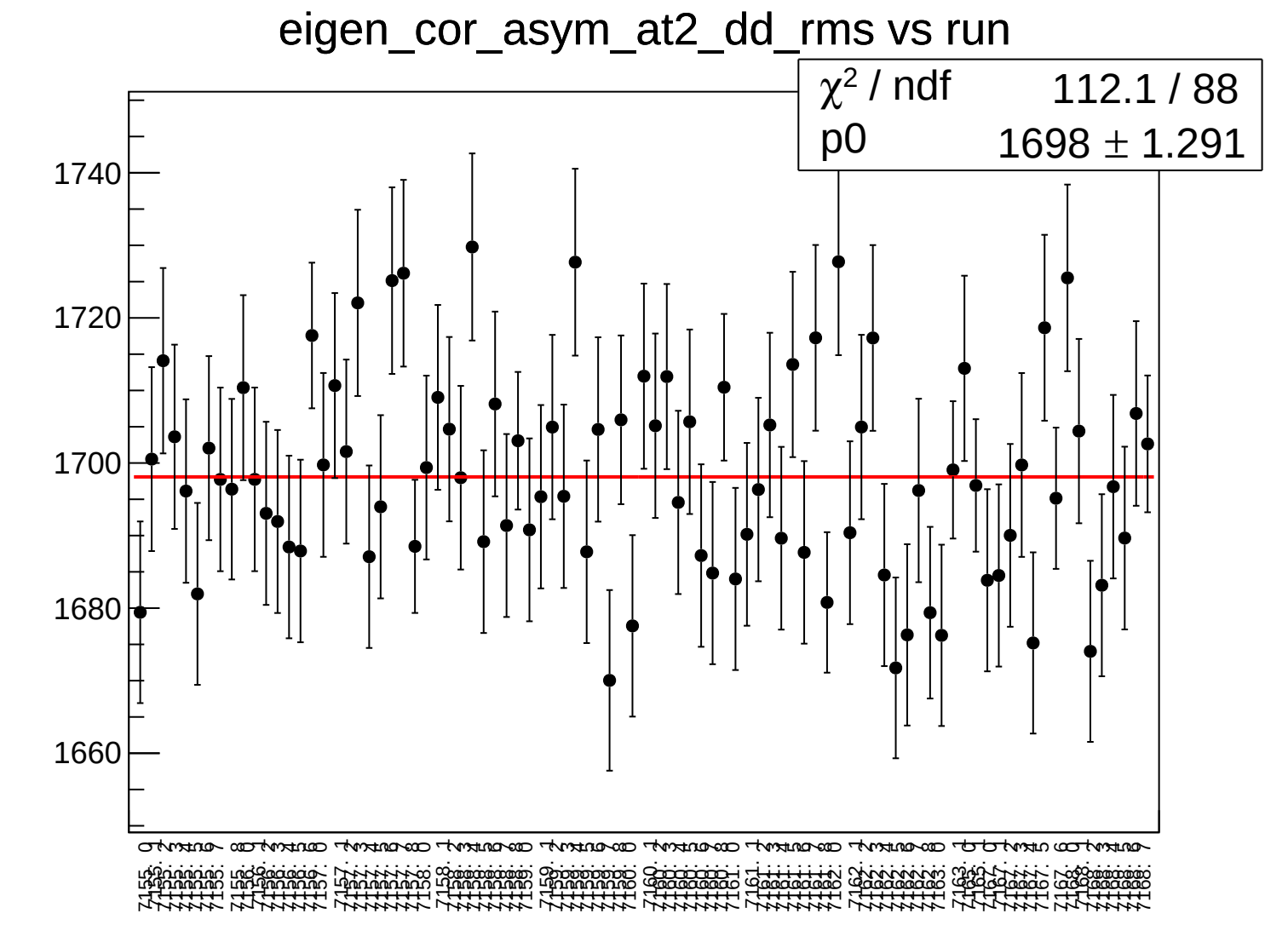

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 76.02 / 88
p0 −419.1± 1028
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −27.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

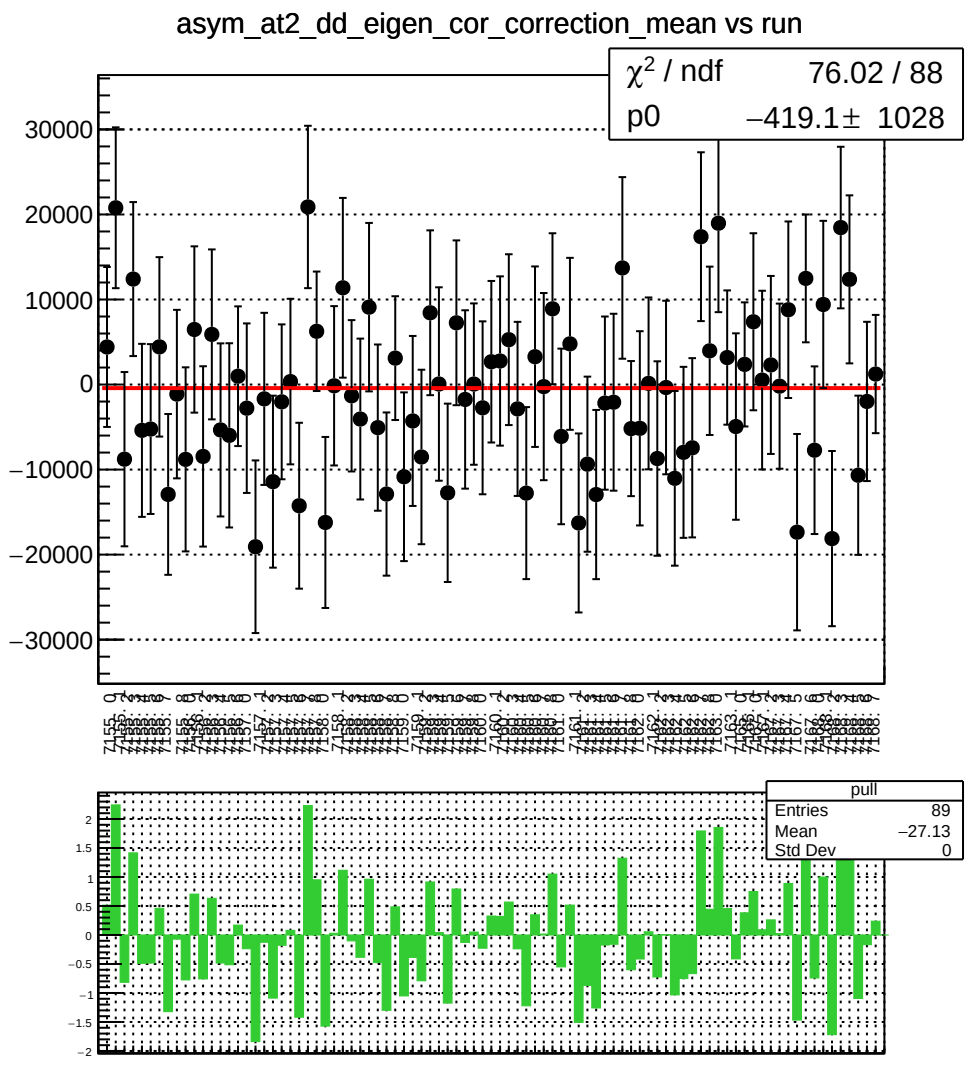

pull1D
Entries 89
Mean −0.02753
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

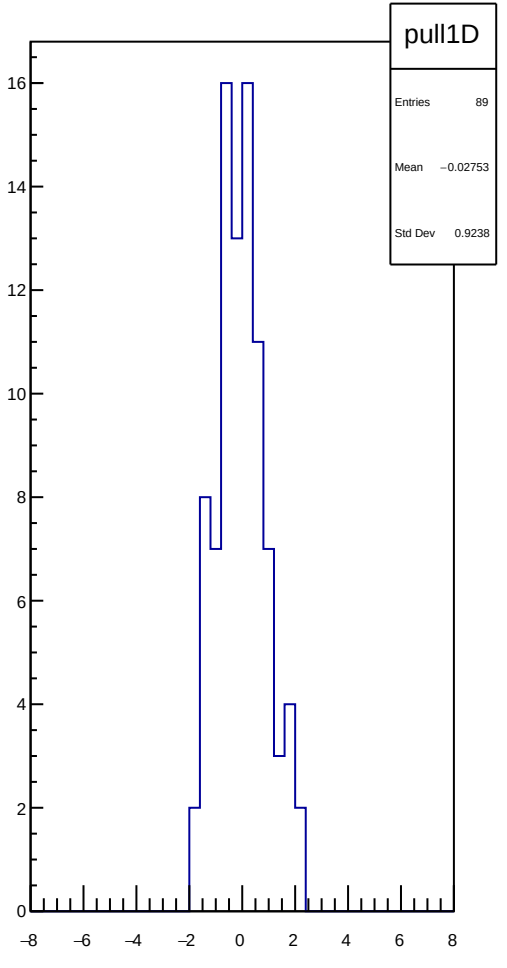

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 4606 / 88
p0 955.3 ± 0.7272
1100
1050
1000
950
900
850

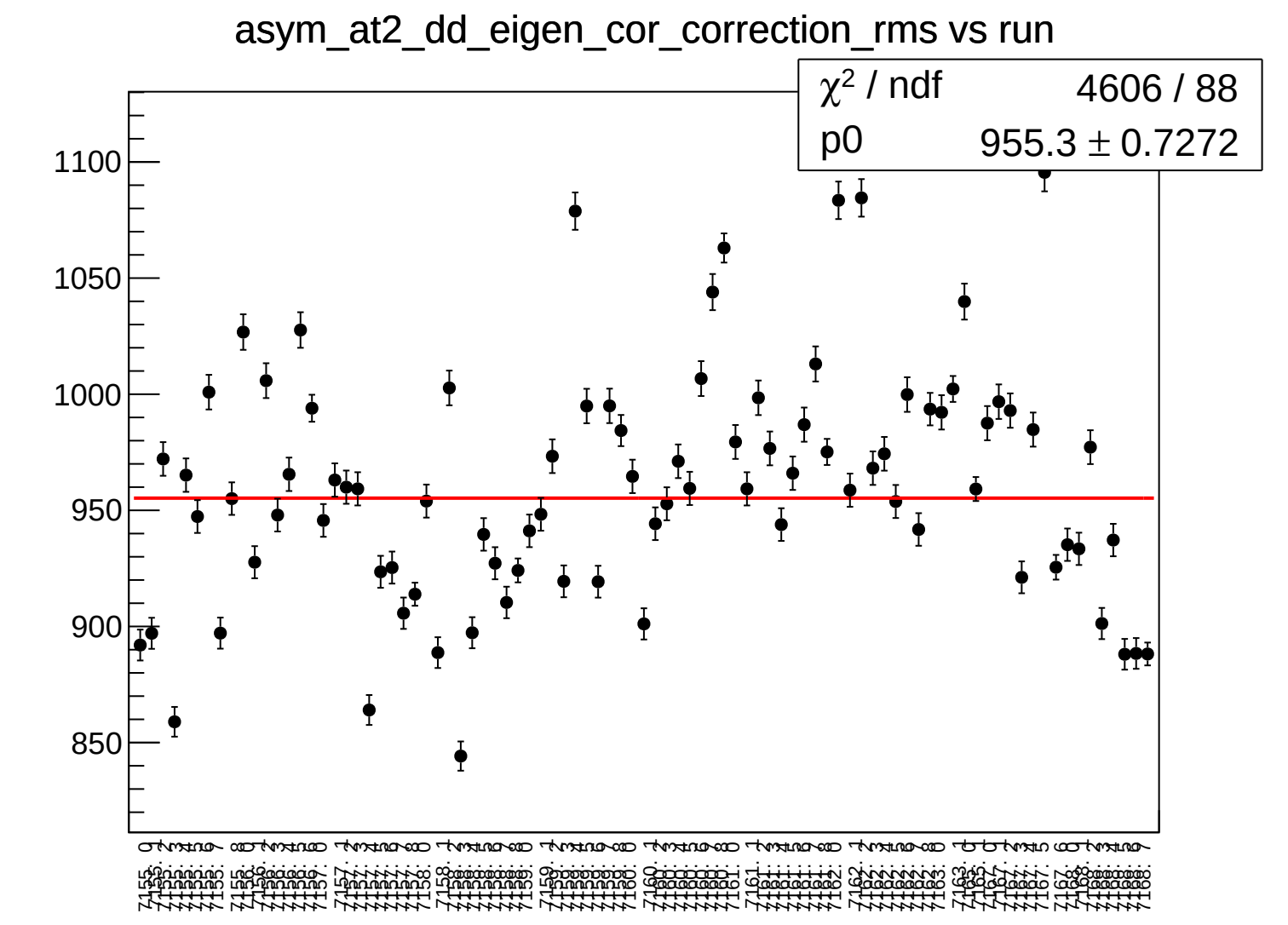

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 87.06 / 88
p0 −729.3 ± 1826
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 2004
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

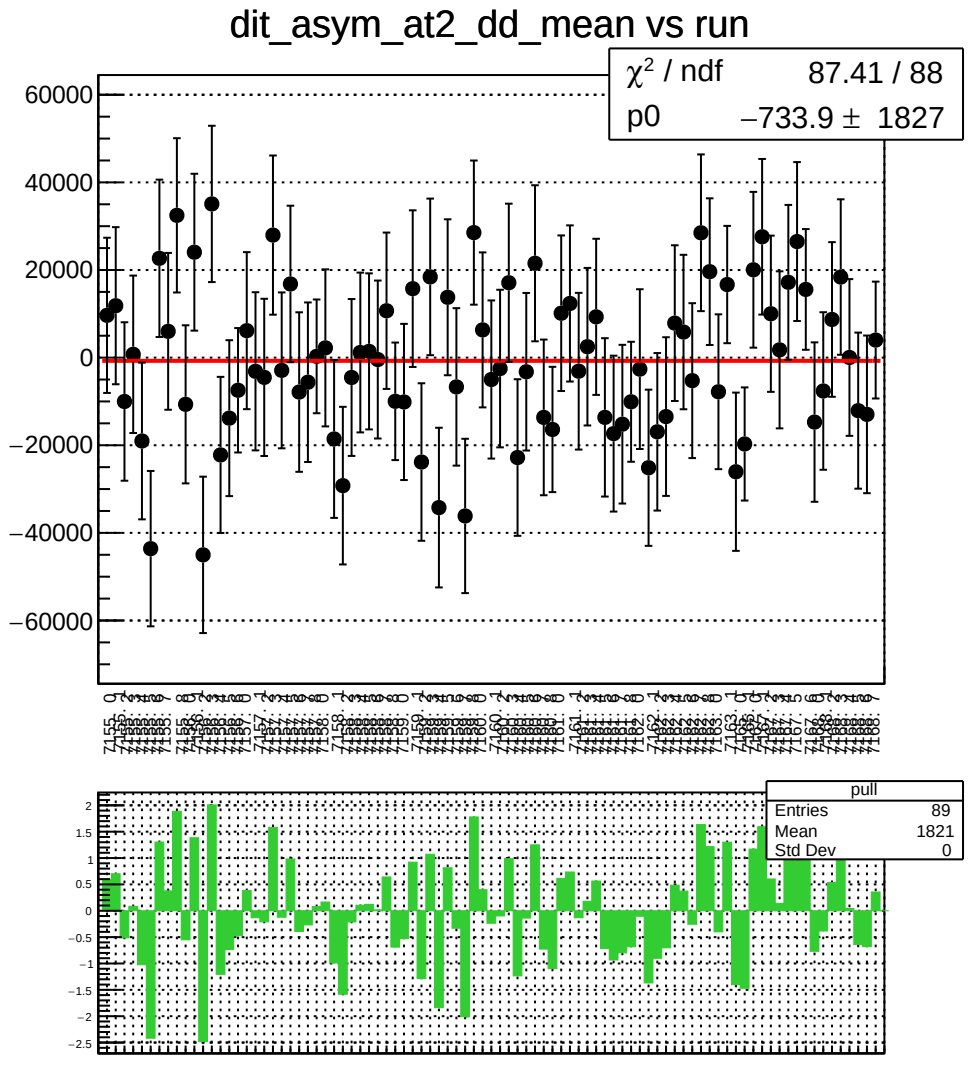

pull1D
Entries 89
Mean 0.0009863
Std Dev 0.989
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

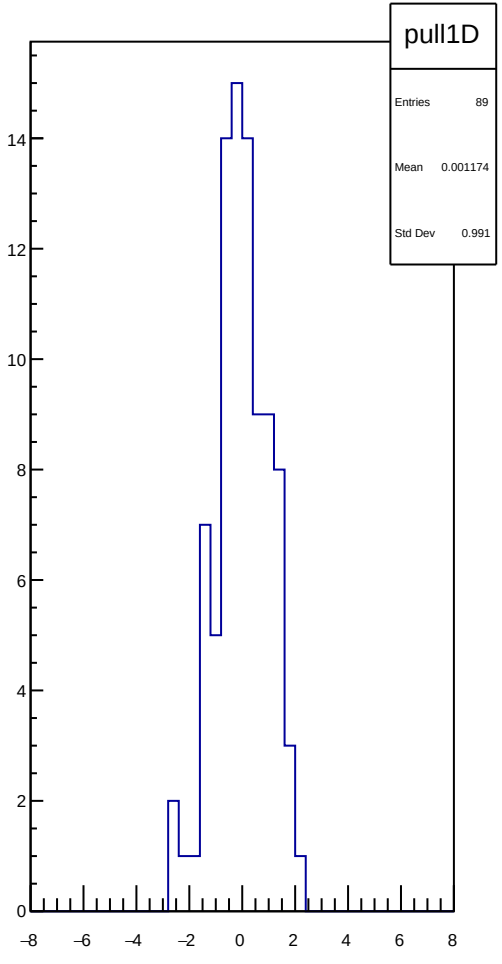

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 112.1 / 88
p0 1698 ± 1.291
1740
1720
1700
1680
1660

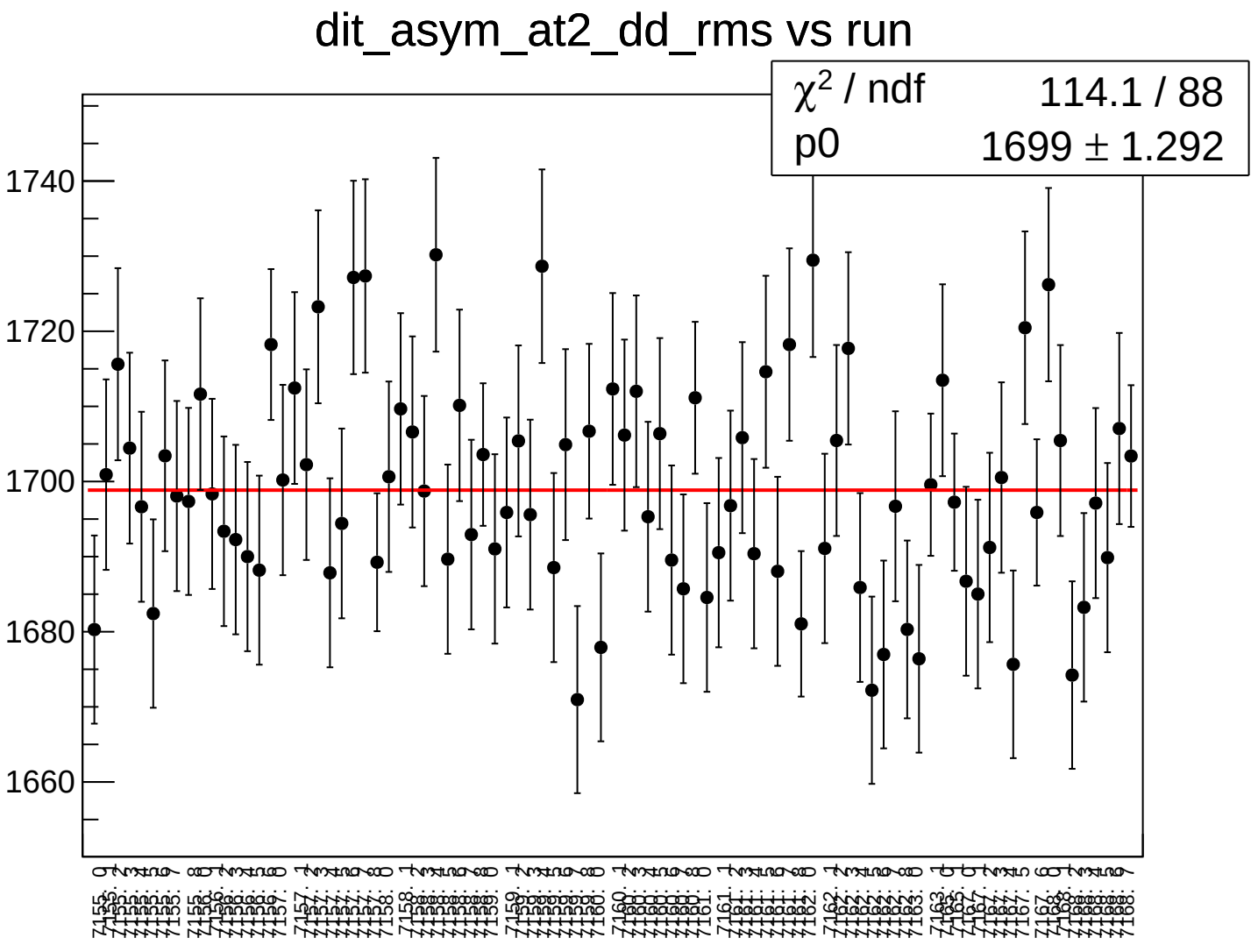

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.02 / 88
p0 −419.1± 1028
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −27.13
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

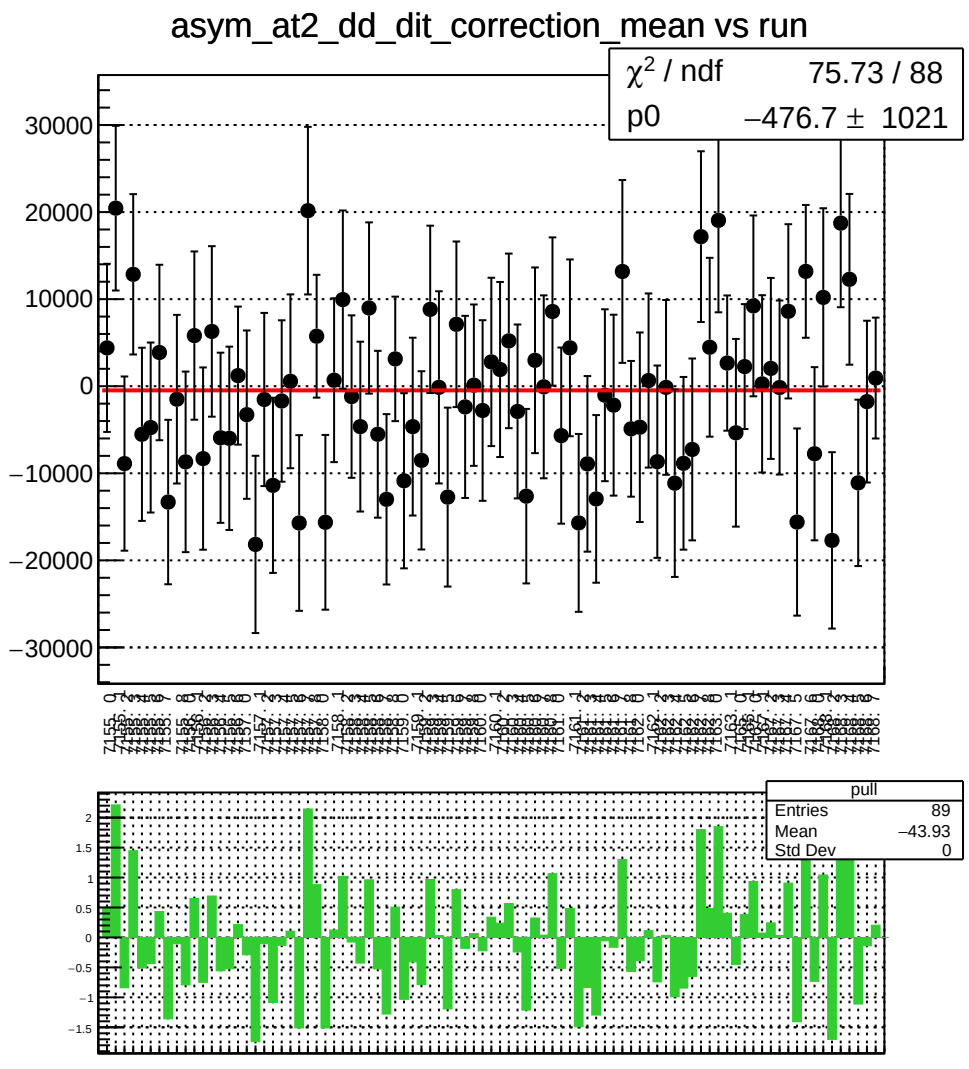

pull1D
Entries 89
Mean −0.02753
Std Dev 0.9238
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

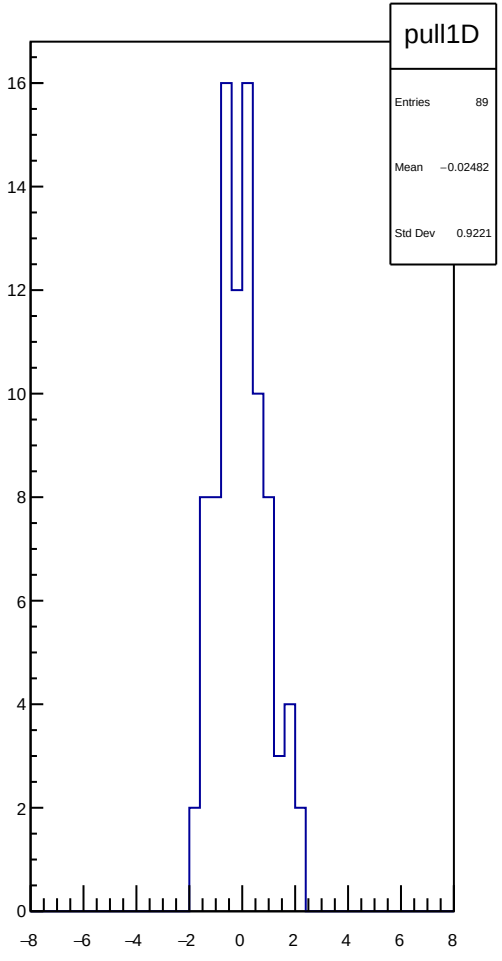

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4606 / 88
p0 955.3 ± 0.7272
1100
1050
1000
950
900
850

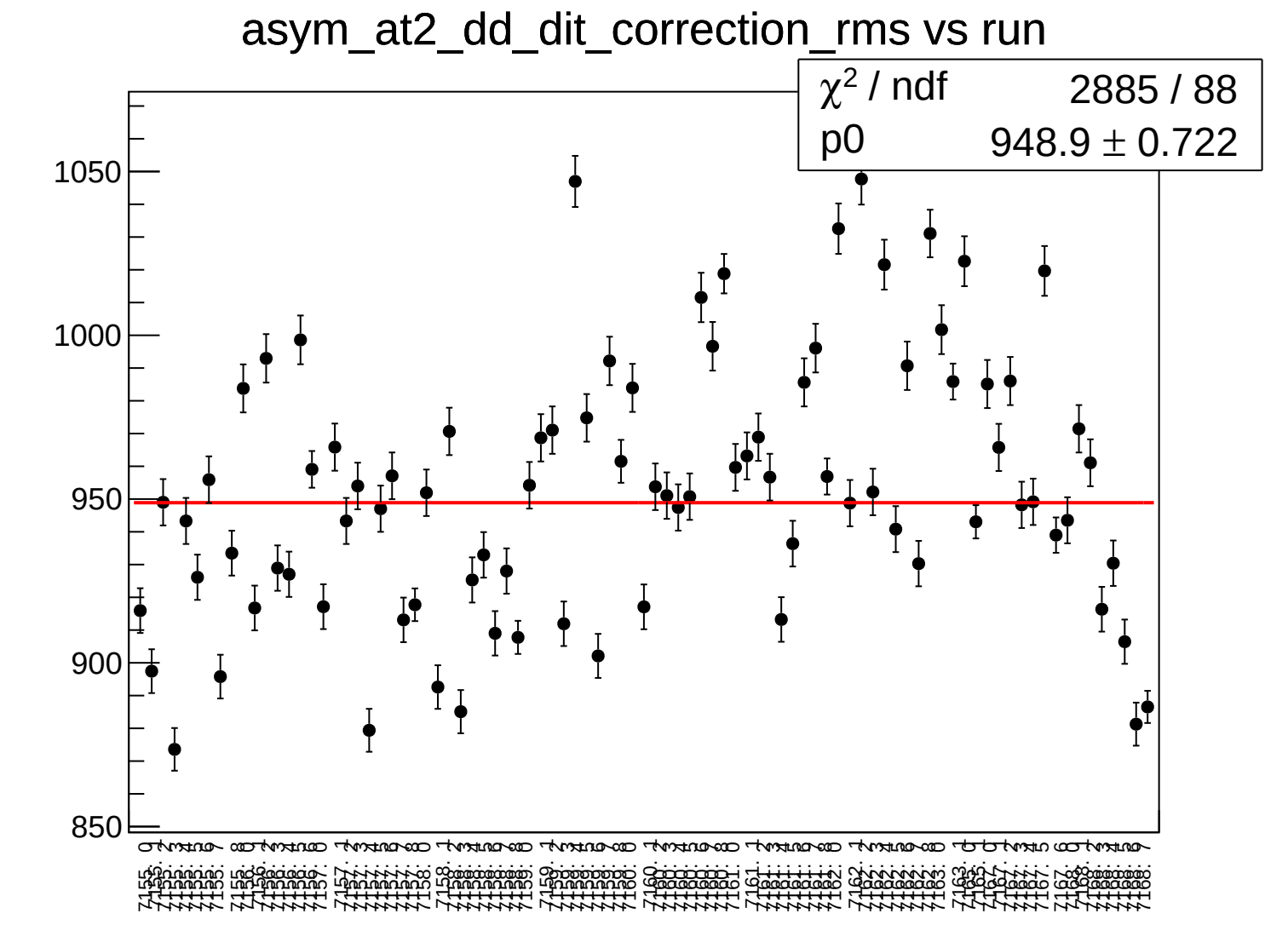

dit_asym_at2_dd_mean vs run
χ² / ndf 87.41 / 88
p0 −733.9 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1821
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

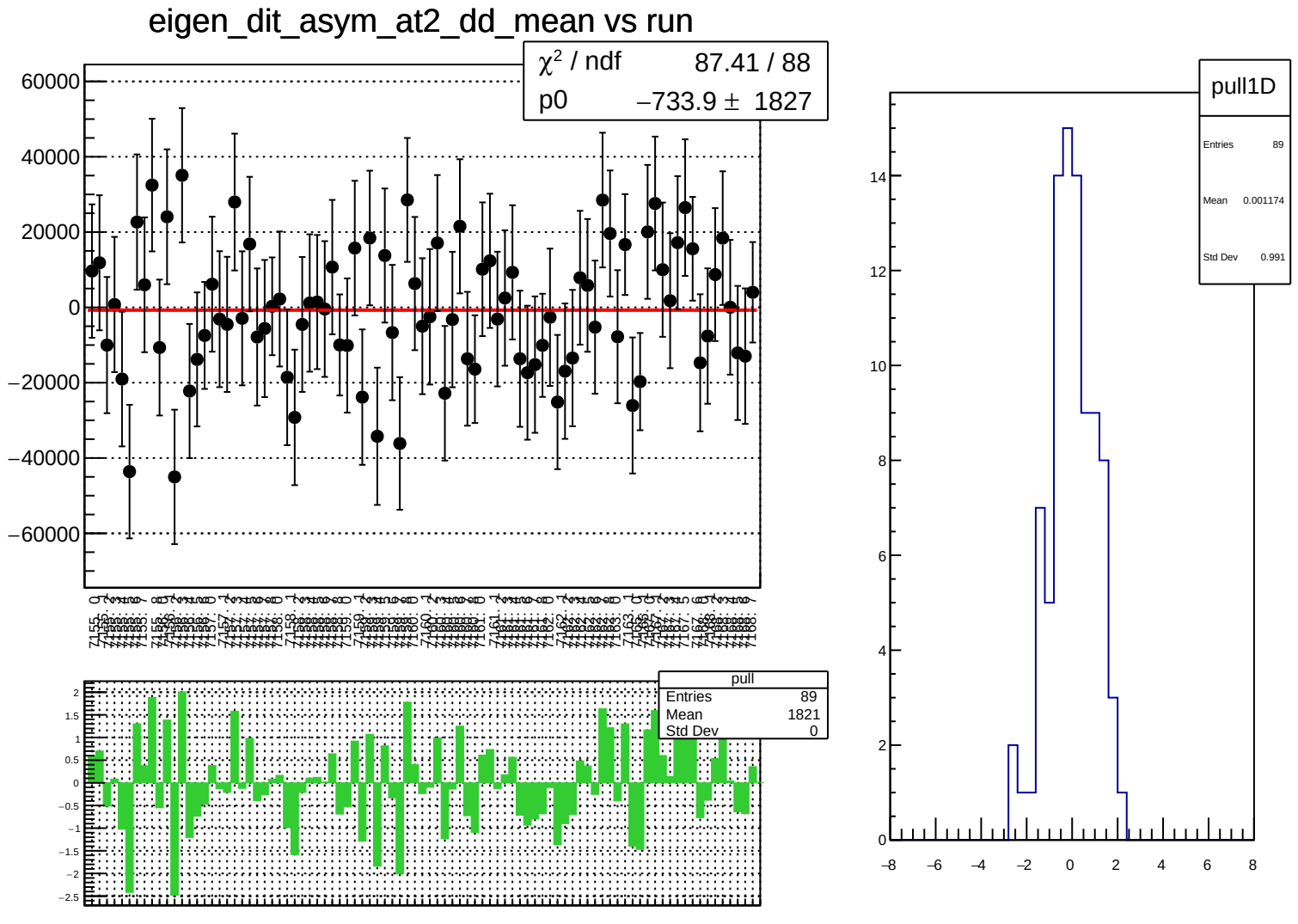

pull1D
Entries 89
Mean 0.001174
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

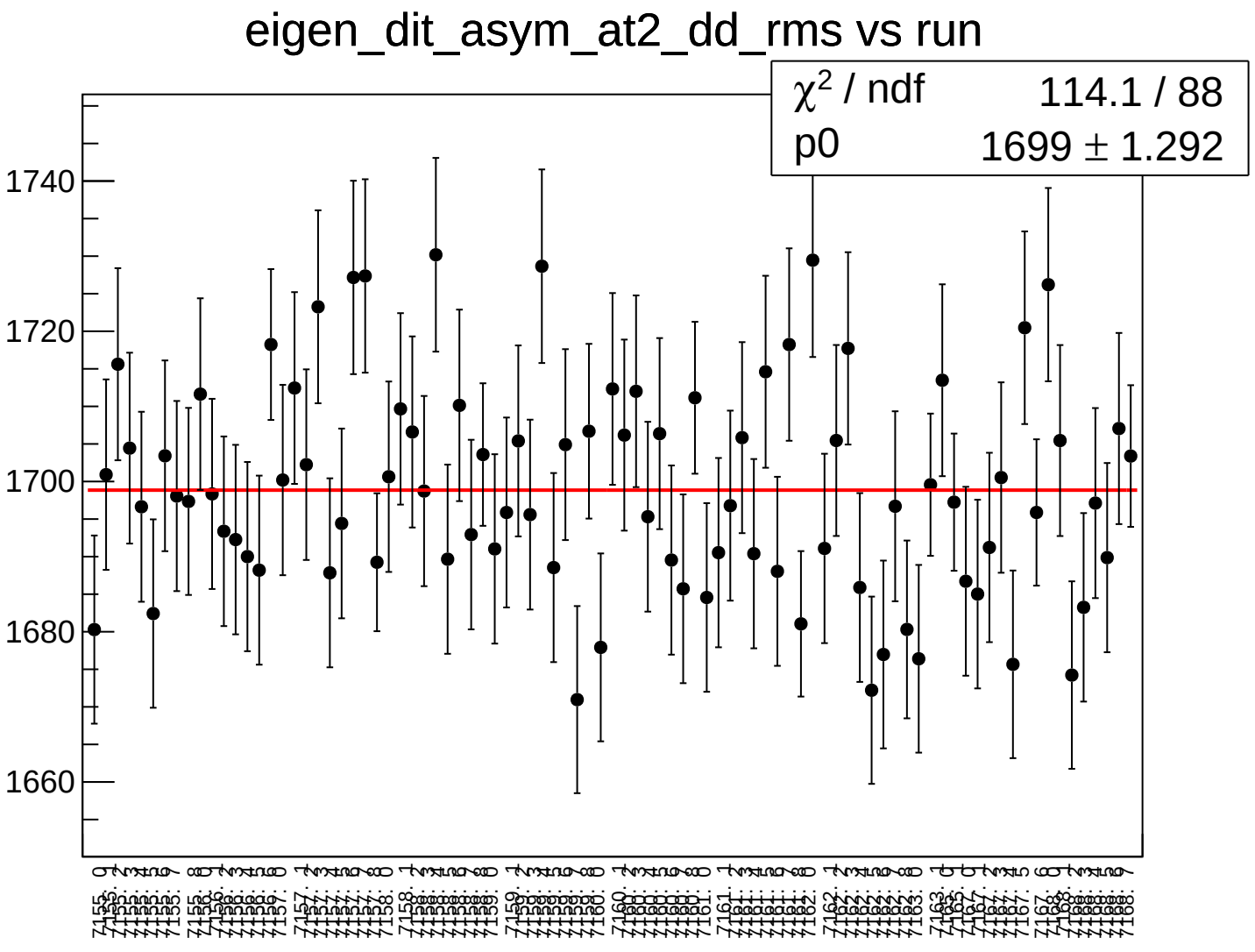

dit_asym_at2_dd_rms vs run
χ² / ndf 114.1 / 88
p0 1699 ± 1.292
1740
1720
1700
1680
1660

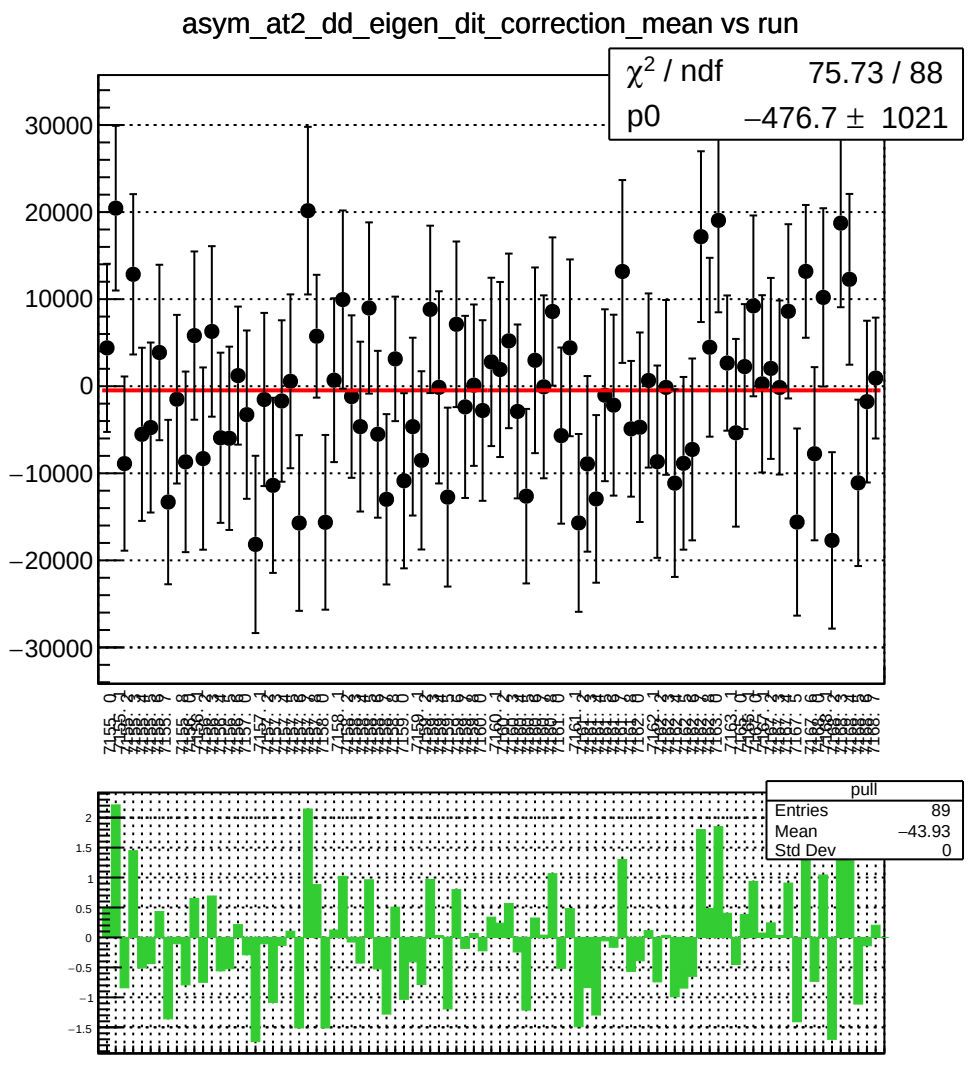

asym_at2_dd_dit_correction_mean vs run
χ² / ndf 75.73 / 88
p0 −476.7 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −43.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

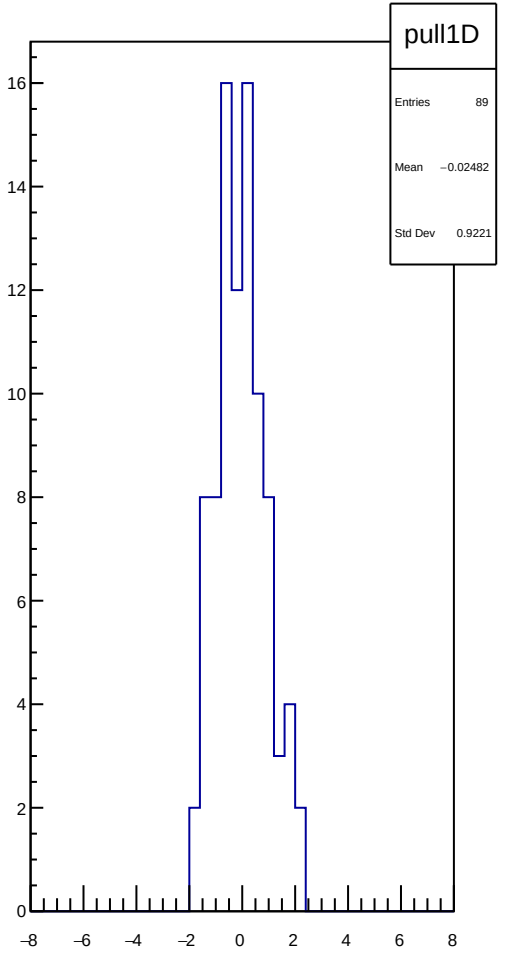

pull1D
Entries 89
Mean −0.02482
Std Dev 0.9221
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_dd_dit_correction_rms vs run
χ² / ndf 2885 / 88
p0 948.9 ± 0.722
1050
1000
950
900
850


eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 87.41 / 88
p0 −733.9 ± 1827
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1821
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.001174
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 114.1 / 88
p0 1699 ± 1.292
1740
1720
1700
1680
1660


asym_at2_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.73 / 88
p0 −476.7 ± 1021
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −43.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 89
Mean −0.02482
Std Dev 0.9221
16
14
12
10
8
6
4
2
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−8
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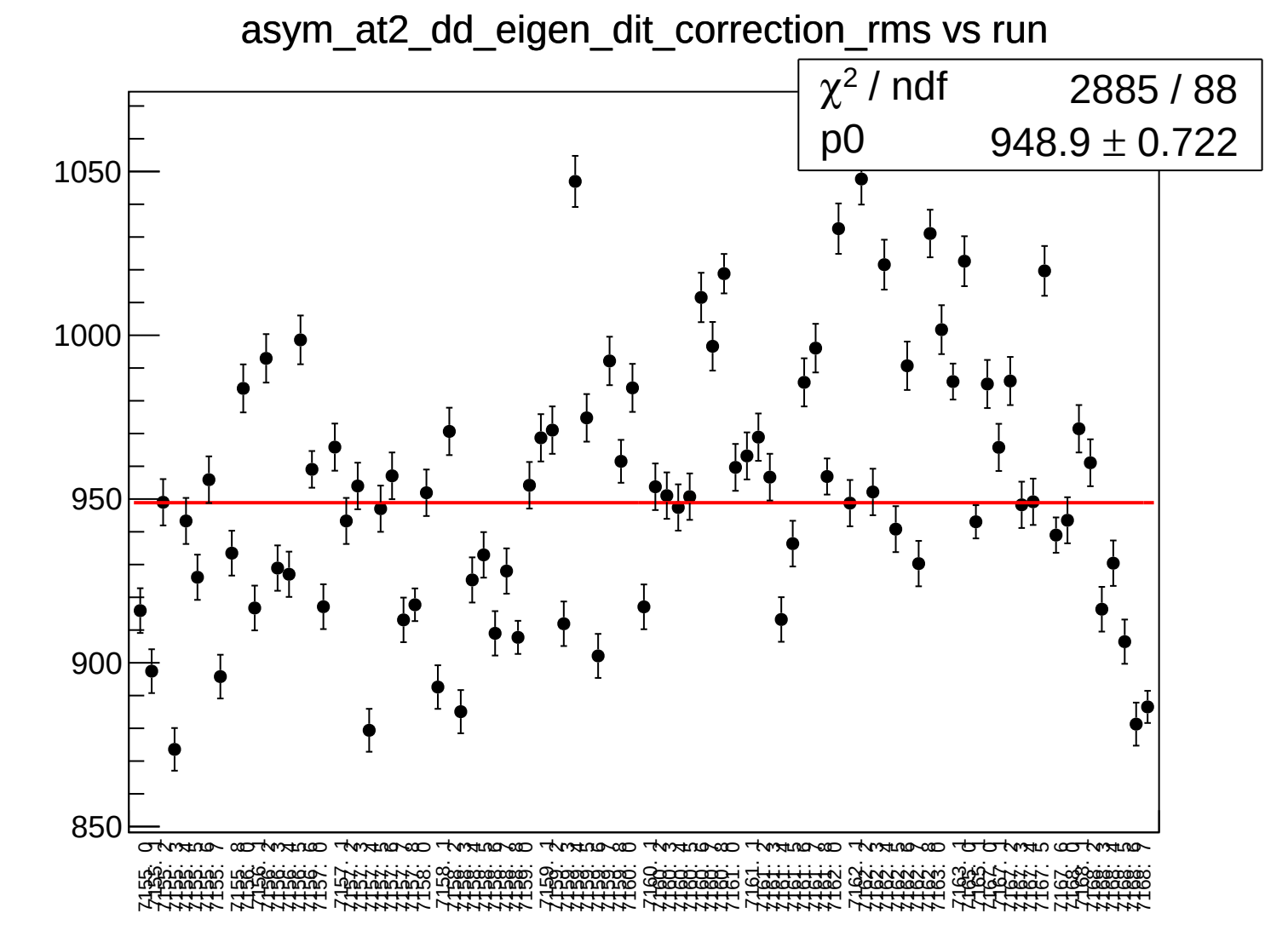
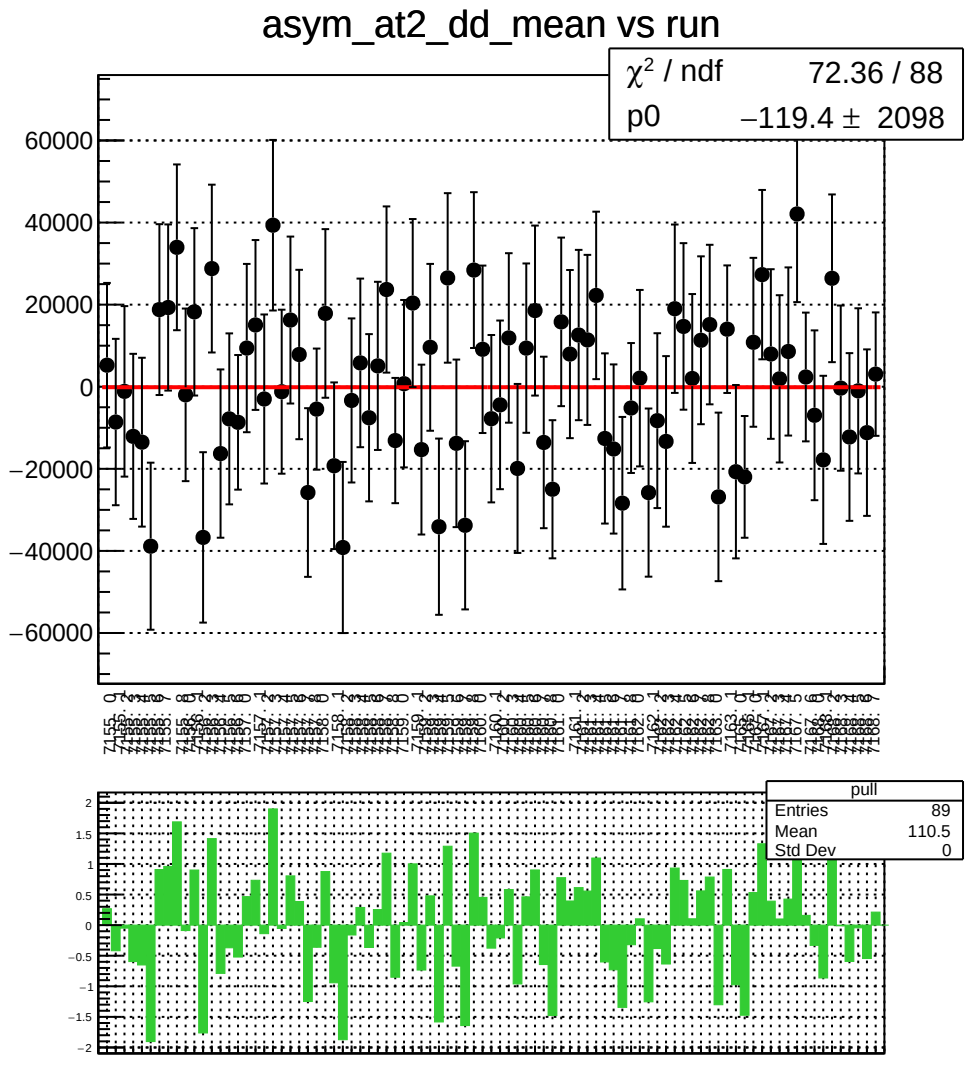
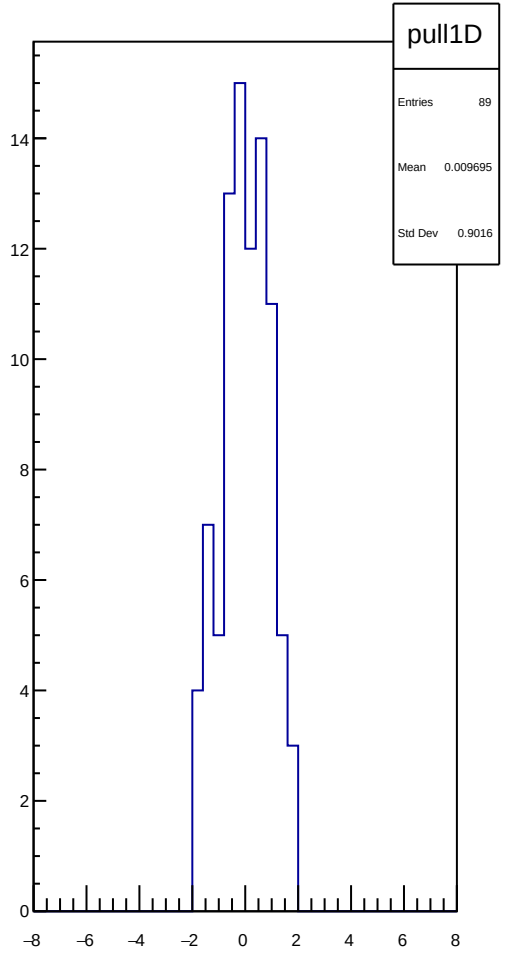
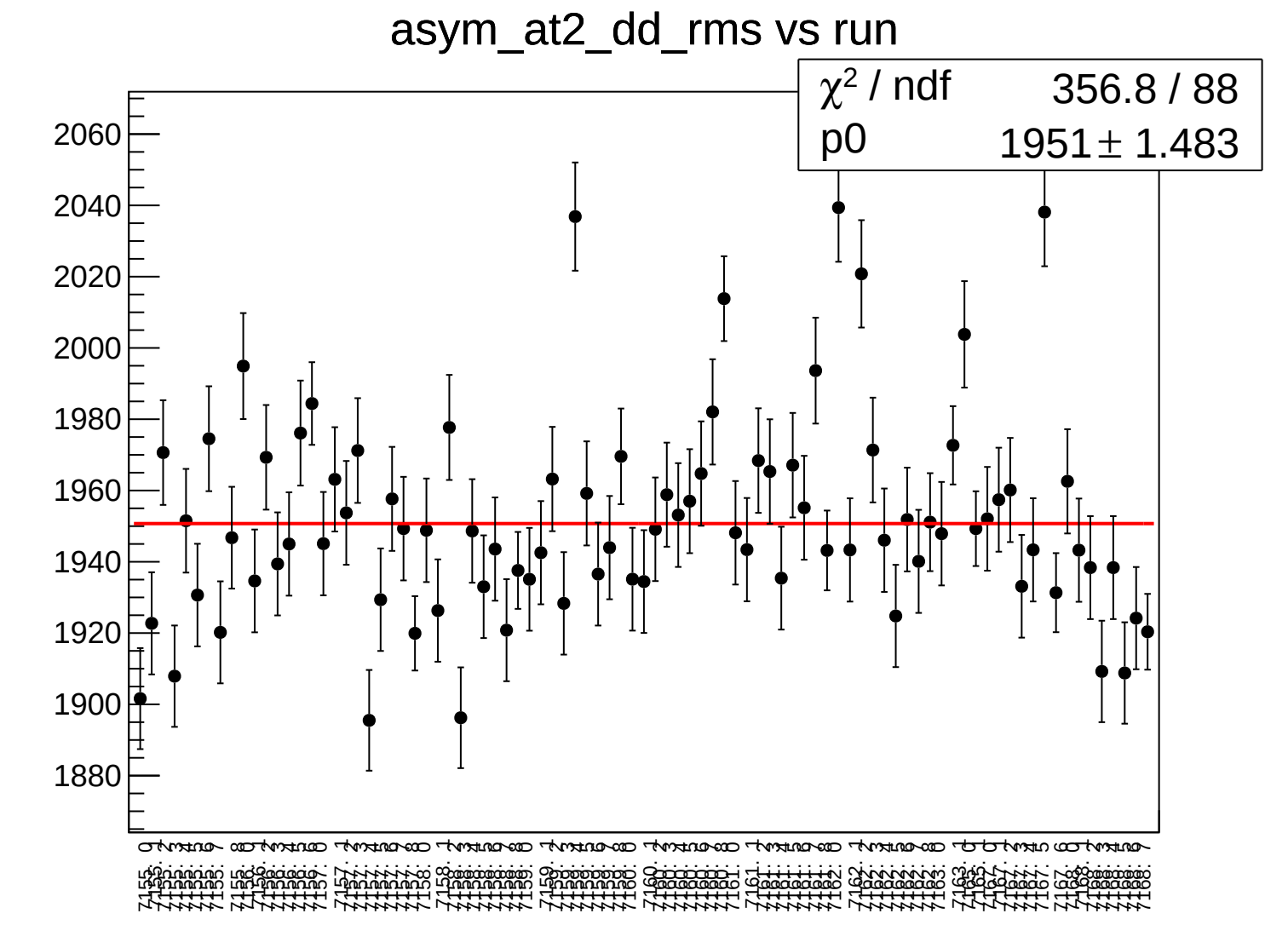
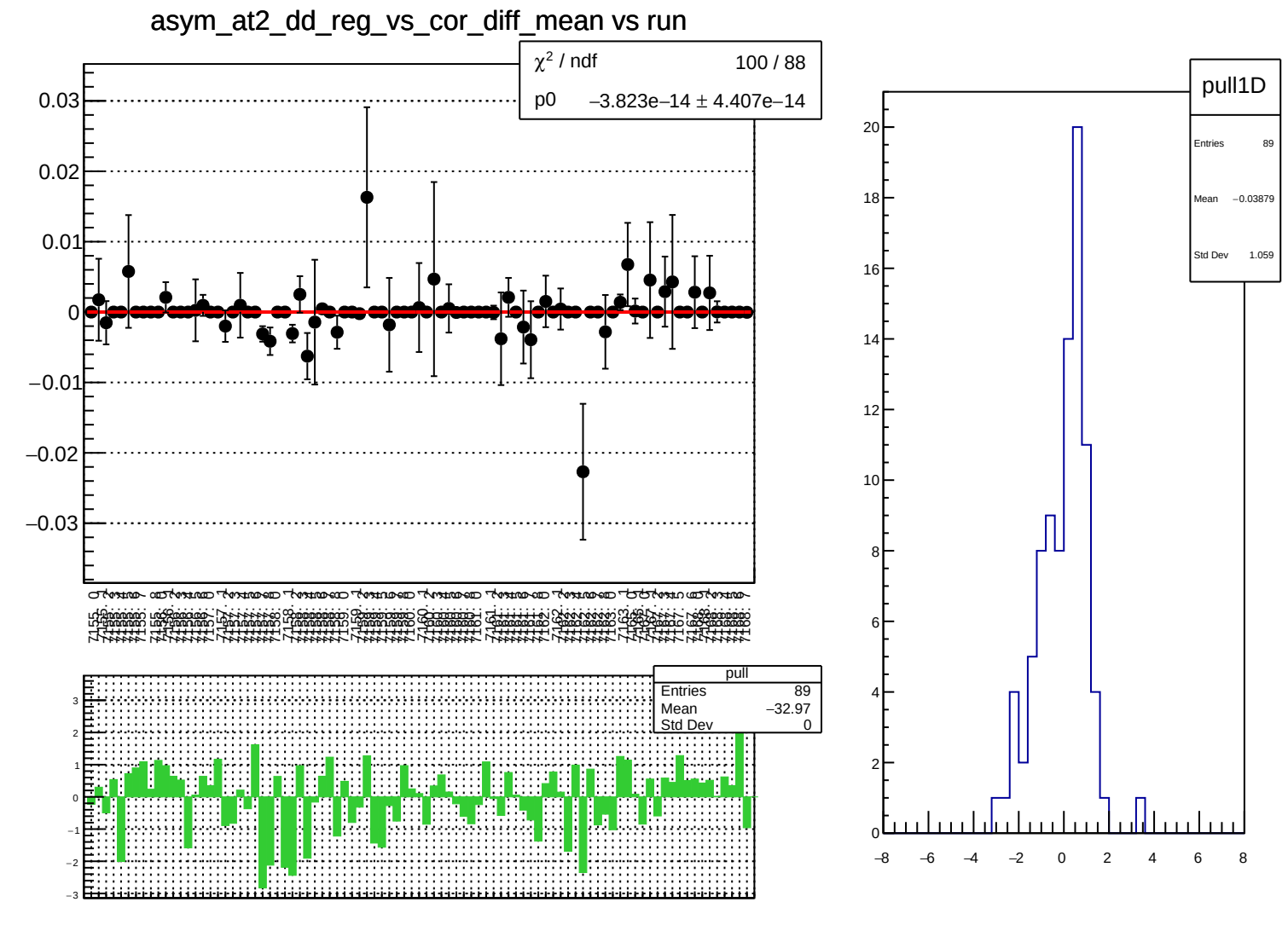
−4
−2
0
2
4
6
8

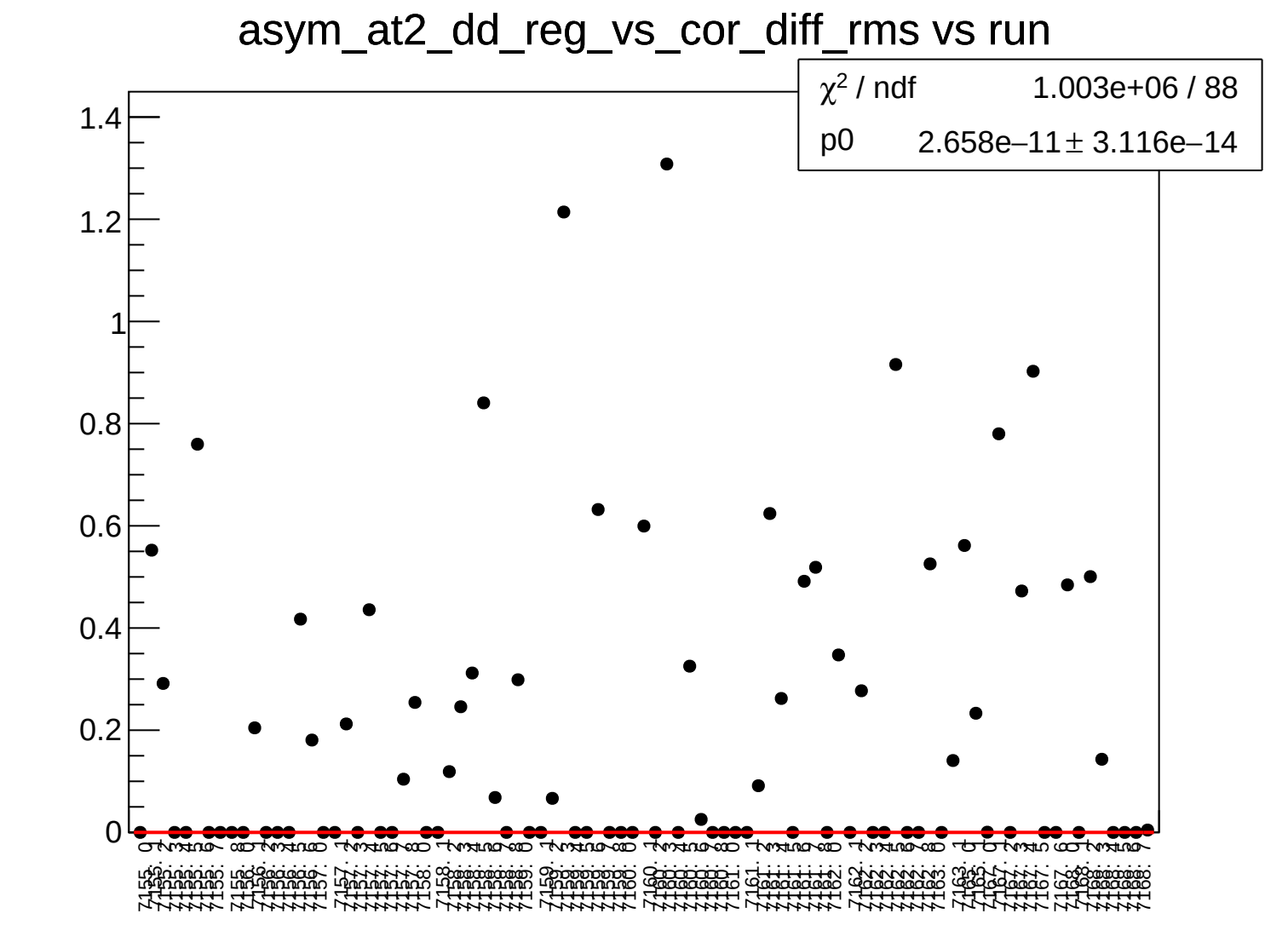

asym_at2_dd_eigen_dit_correction_rms vs run
χ² / ndf 2885 / 88
p0 948.9 ± 0.722
1050
1000
950
900
850

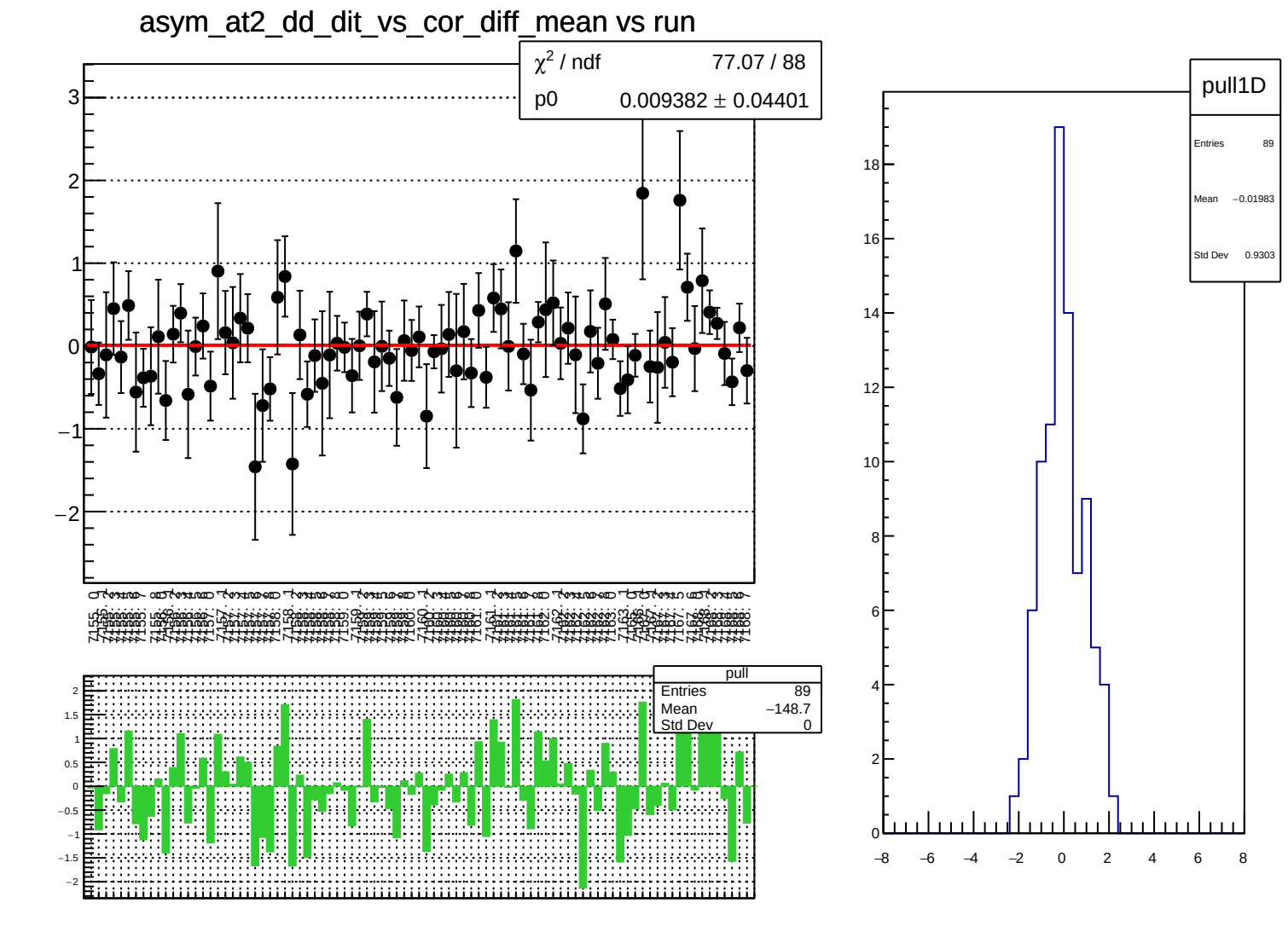

asym_at2_dd_mean vs run
χ² / ndf 72.36 / 88
p0 −119.4 ± 2098
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 110.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

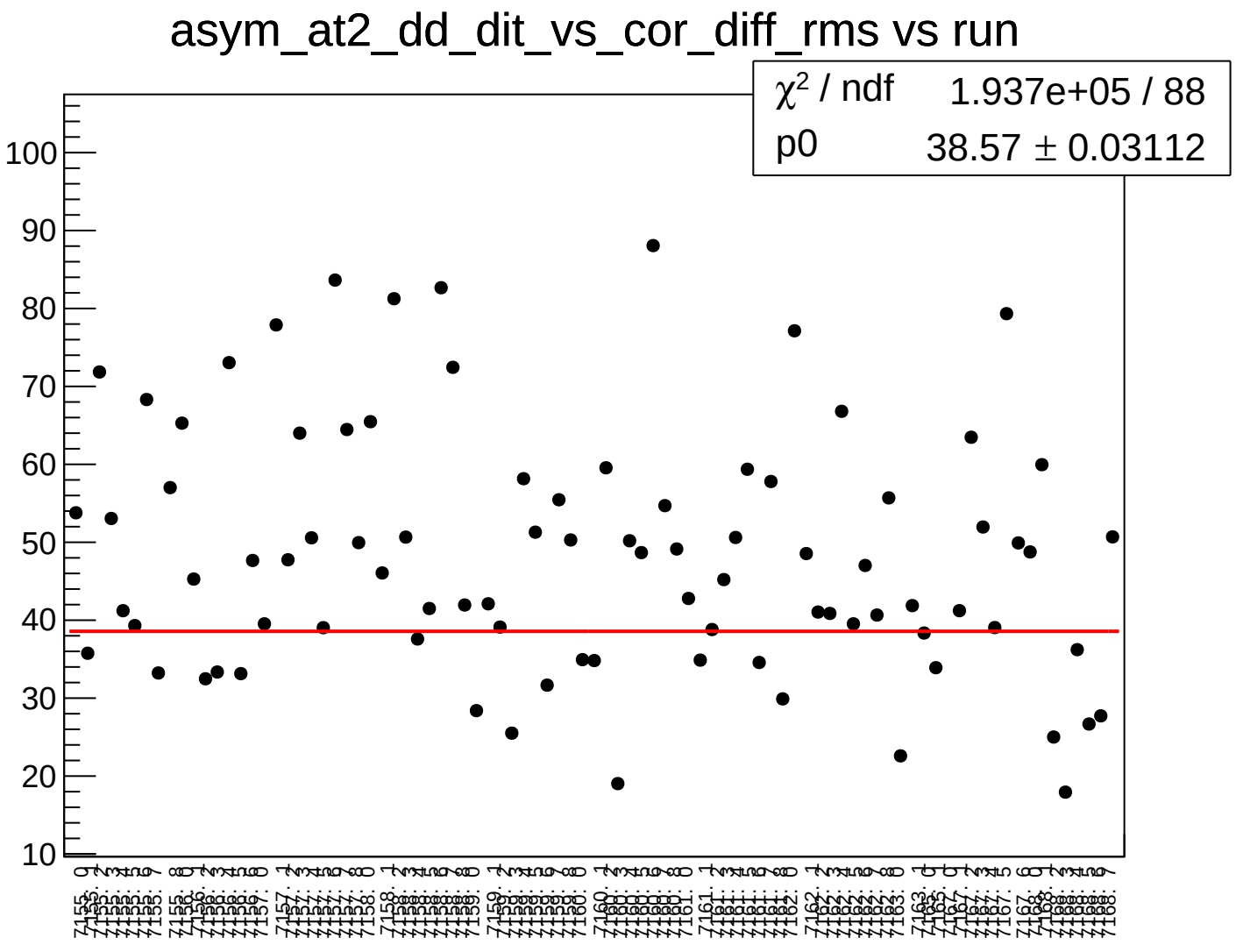

pull1D
Entries 89
Mean 0.009695
Std Dev 0.9016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

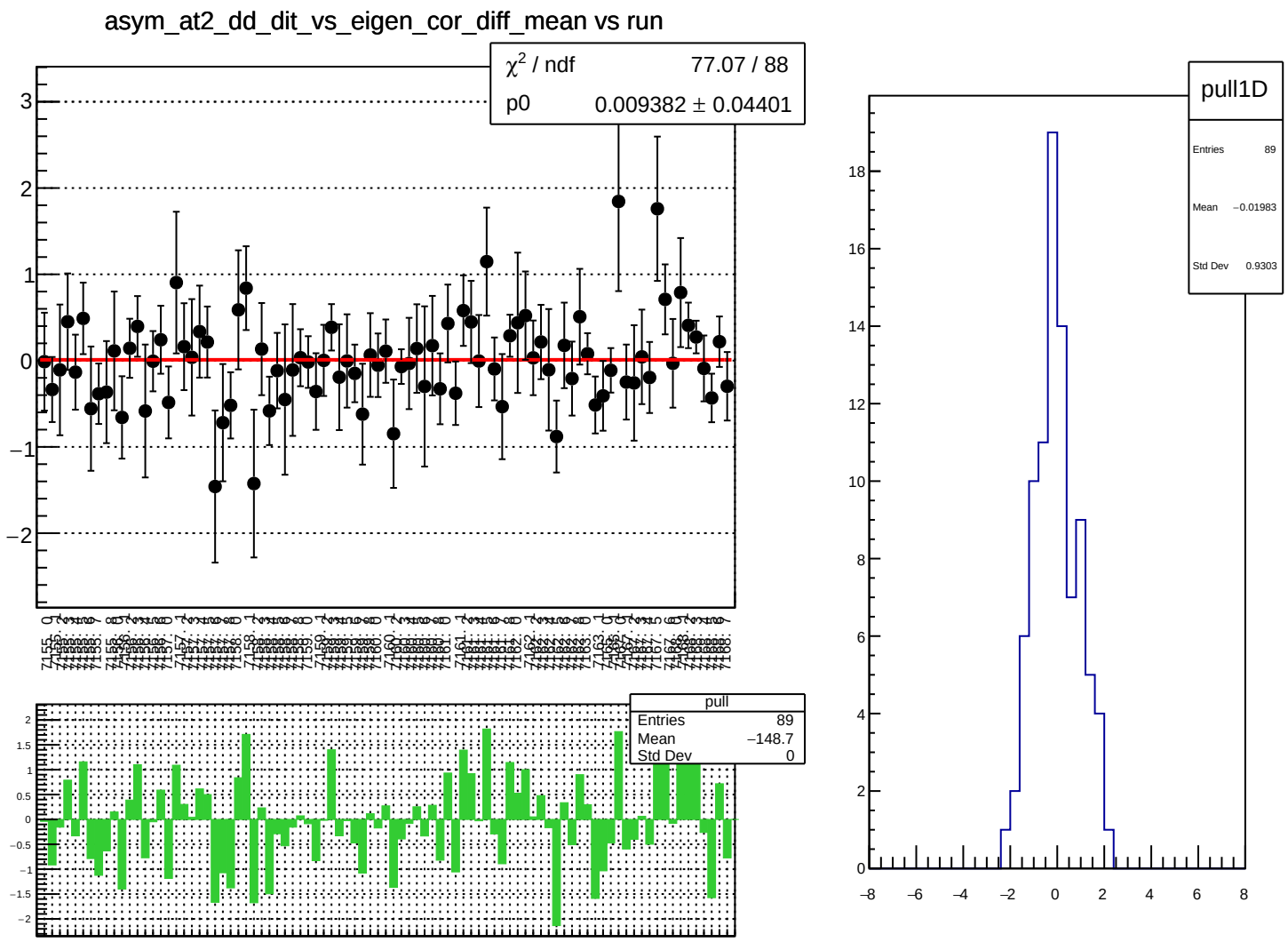

asym_at2_dd_rms vs run
χ² / ndf 356.8 / 88
p0 1951 ± 1.483
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

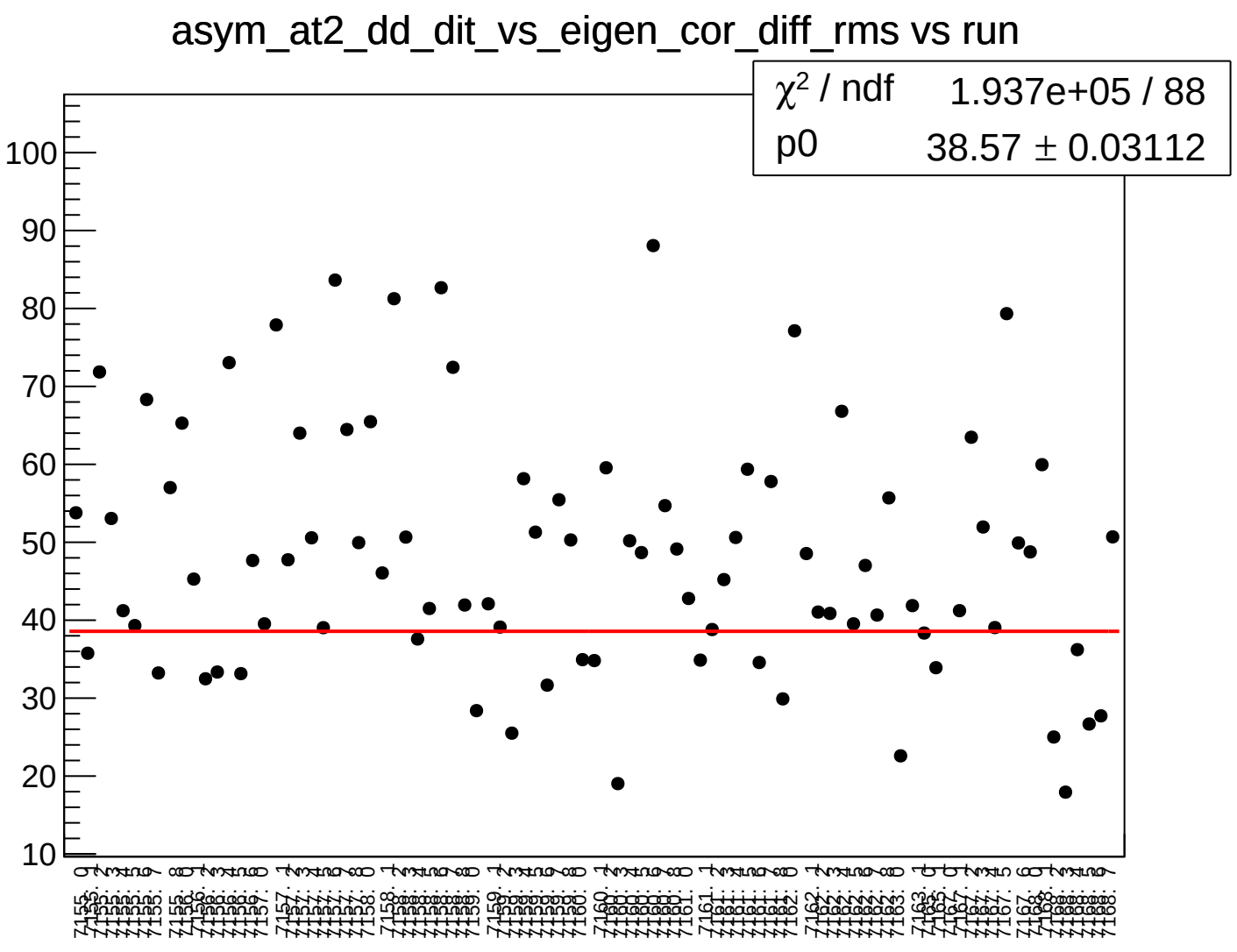

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100 / 88
p0 −3.823e−14 ± 4.407e−14
pull
Entries 89
Mean −32.97
Std Dev 0
pull1D
Entries 89
Mean −0.03879
Std Dev 1.059

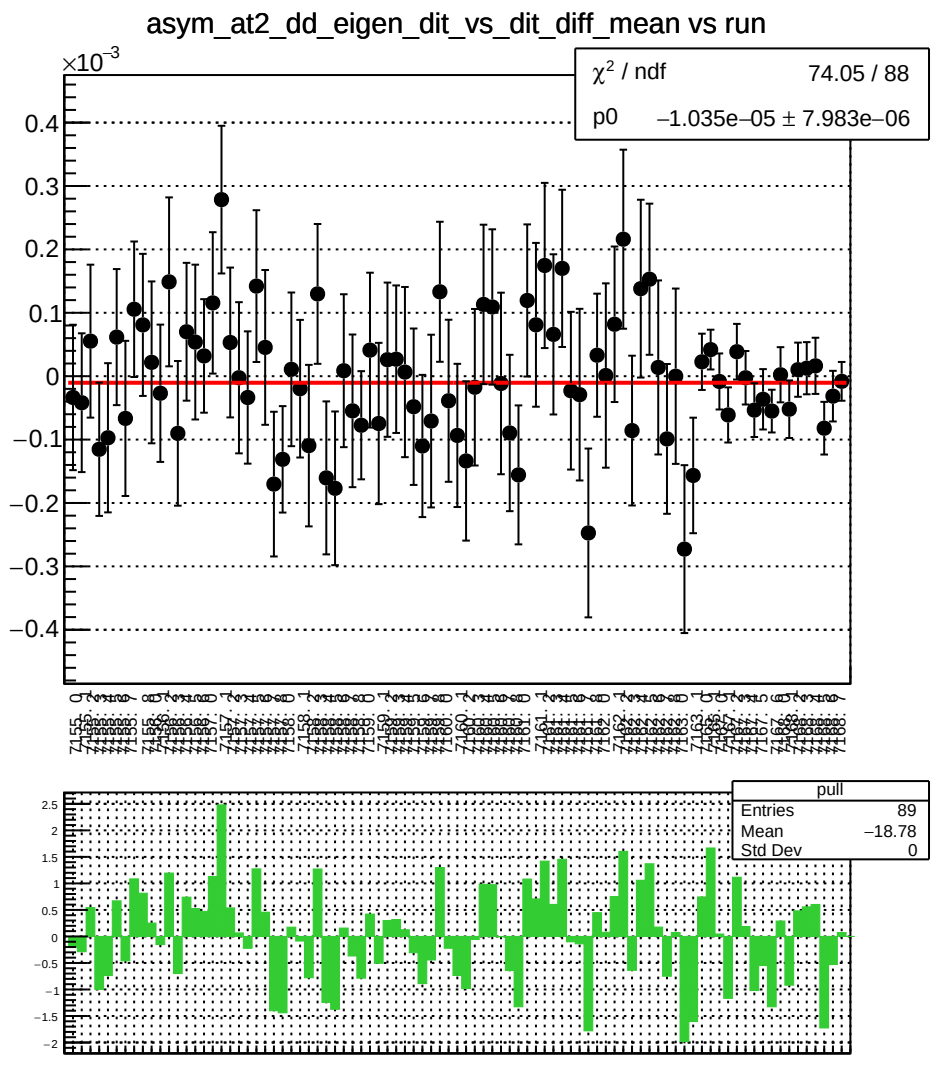

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.003e+06 / 88
p0 2.658e−11 ± 3.116e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

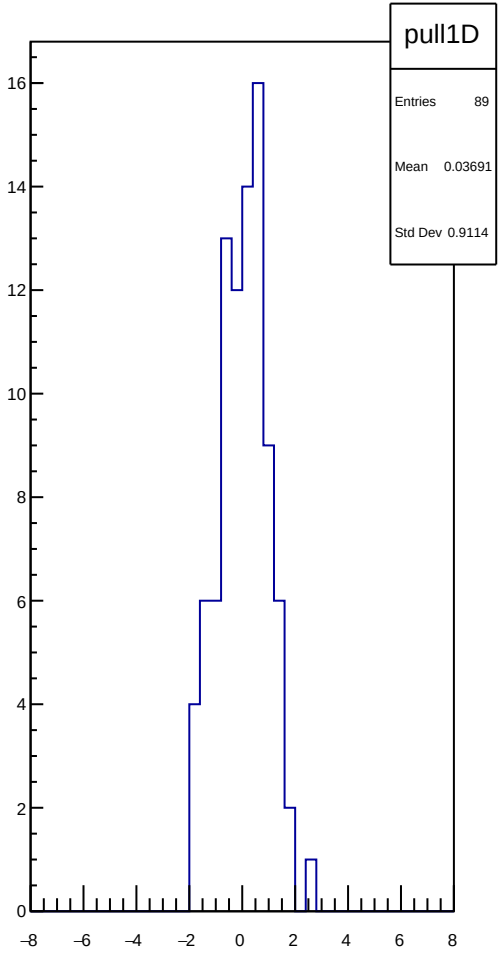

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.07 / 88
p0 0.009382 ± 0.04401
pull
Entries 89
Mean −148.7
Std Dev 0
pull1D
Entries 89
Mean −0.01983
Std Dev 0.9303

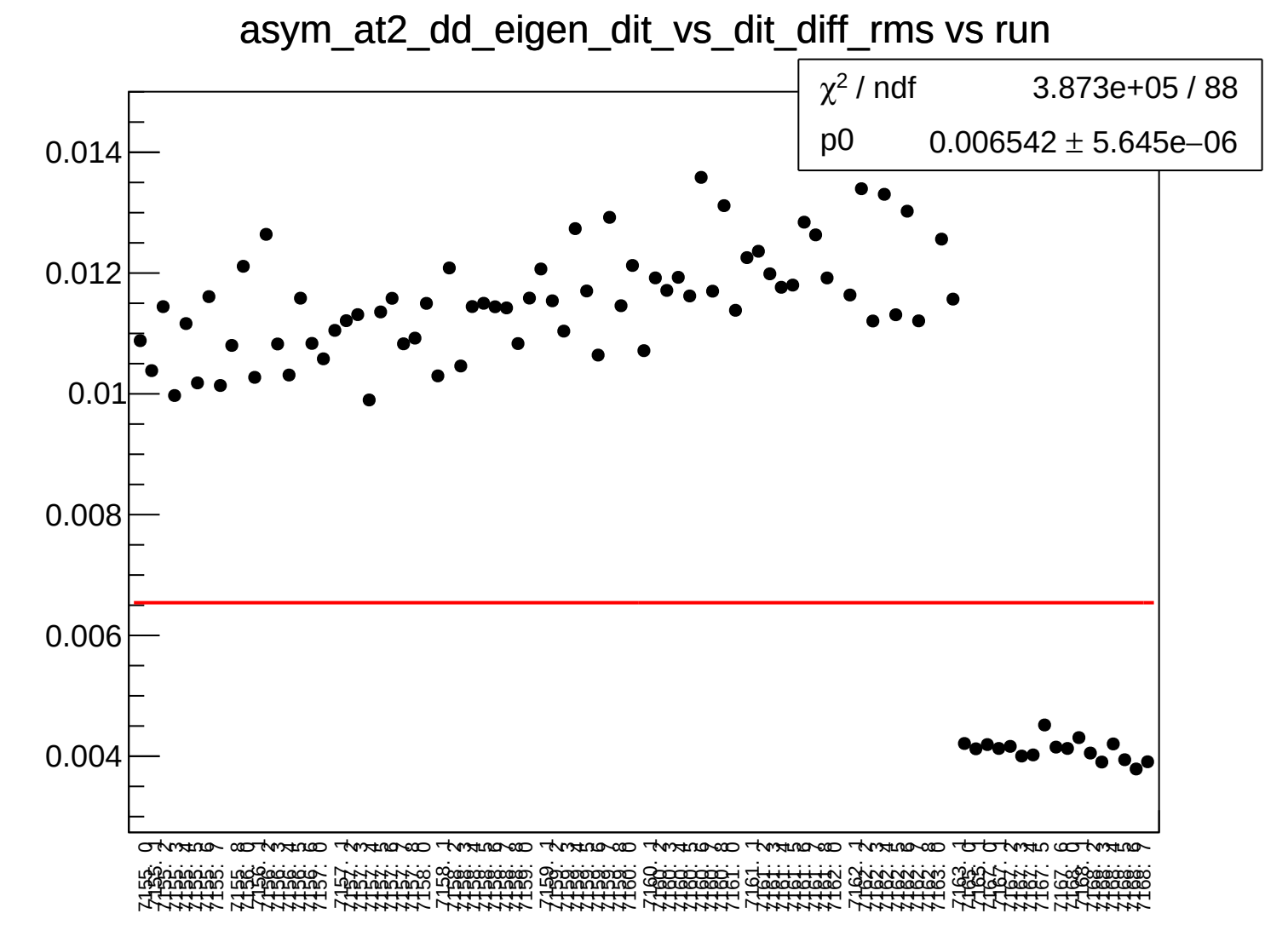

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 38.57 ± 0.03112
100
90
80
70
60
50
40
30
20
10

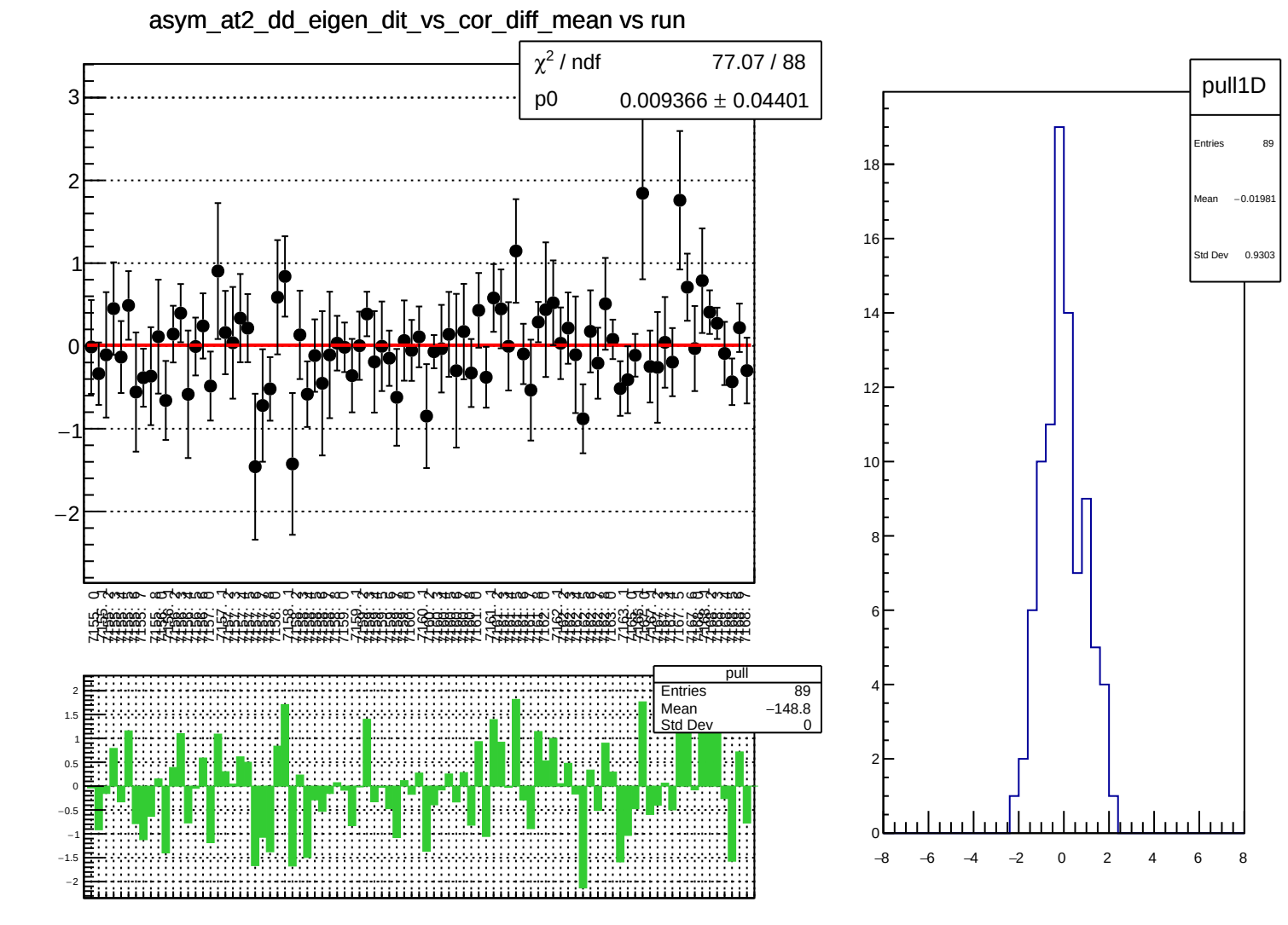

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.07 / 88
p0 0.009382 ± 0.04401
pull
Entries 89
Mean −148.7
Std Dev 0
pull1D
Entries 89
Mean −0.01983
Std Dev 0.9303

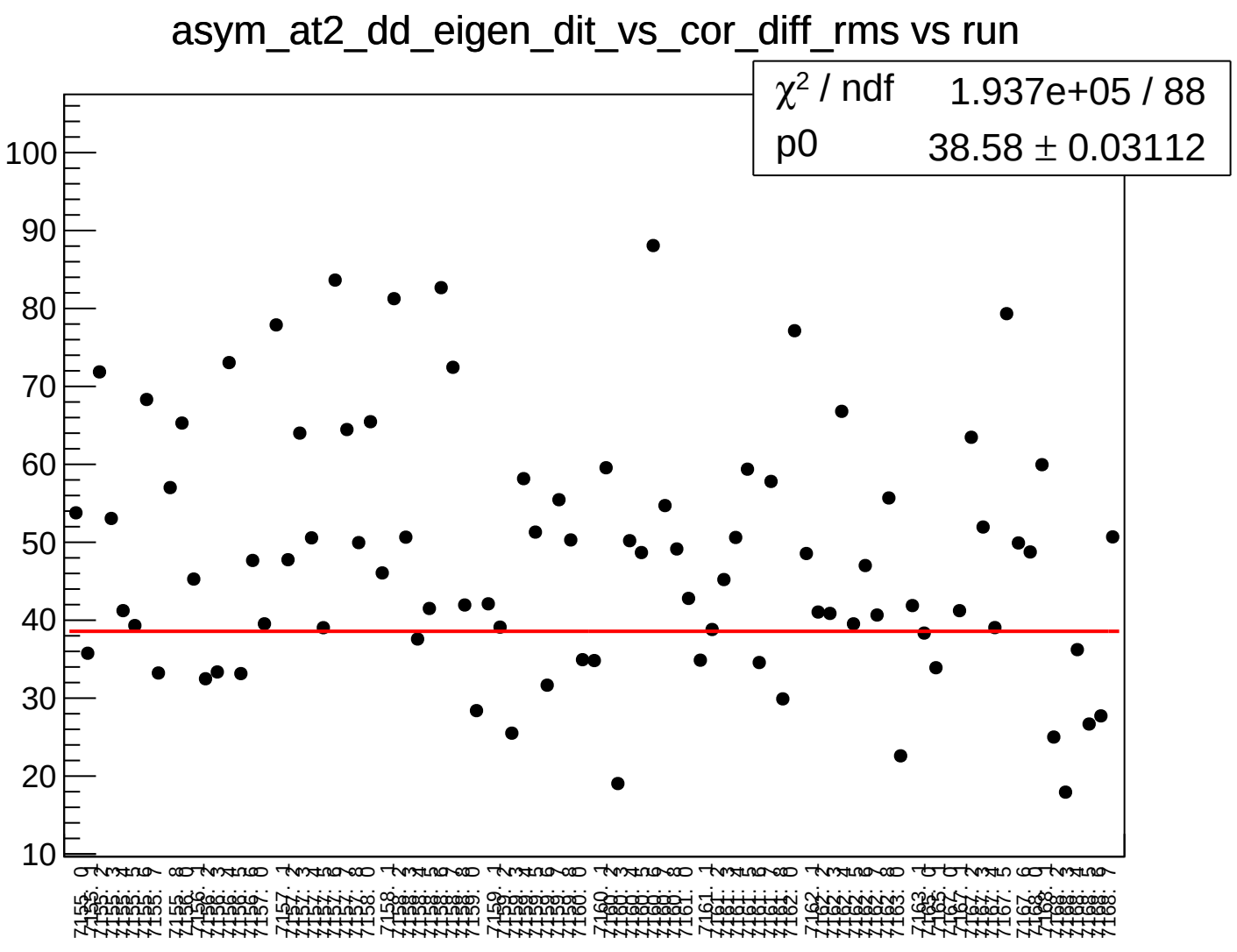

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 38.57 ± 0.03112
100
90
80
70
60
50
40
30
20
10

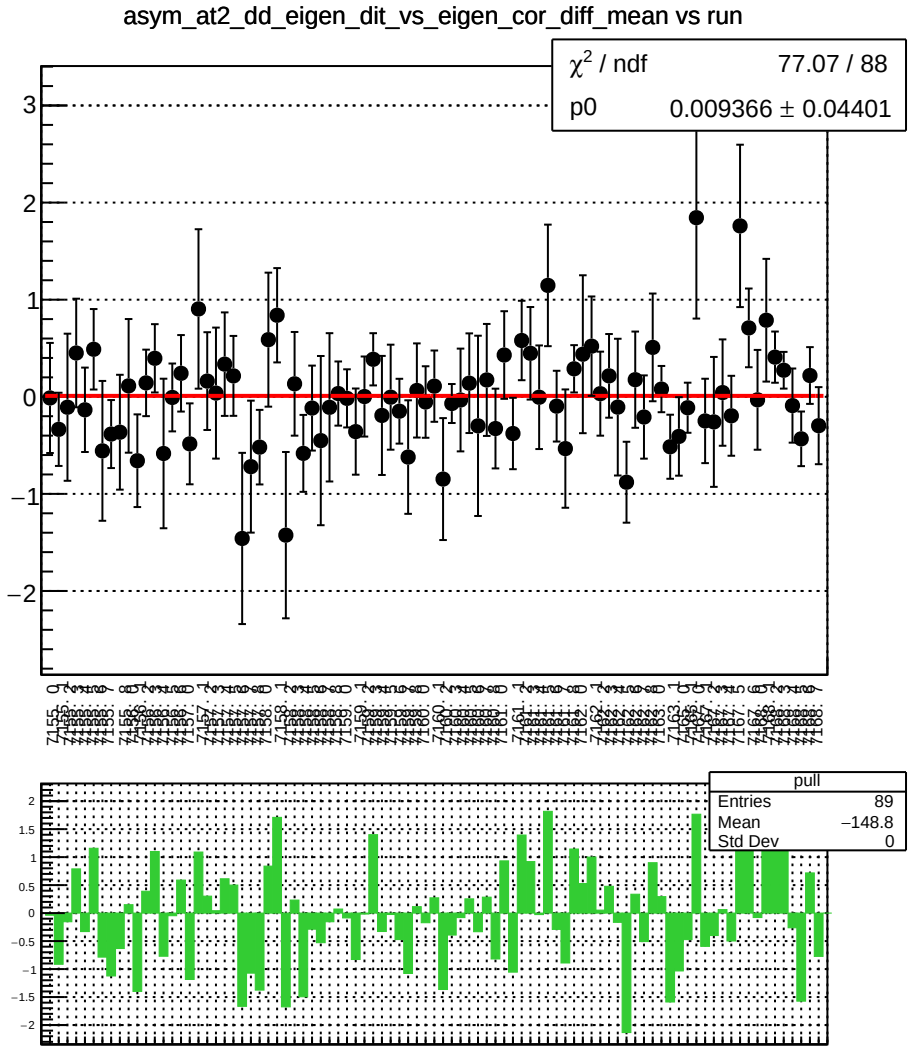

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.05 / 88
p0 −1.035e−05 ± 7.983e−06
pull
Entries 89
Mean −18.78
Std Dev 0

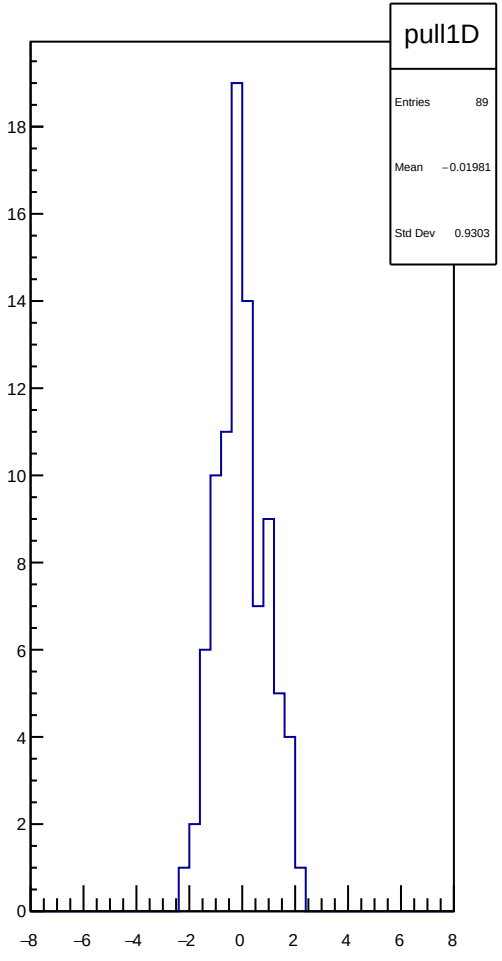

pull1D
Entries 89
Mean 0.03691
Std Dev 0.9114

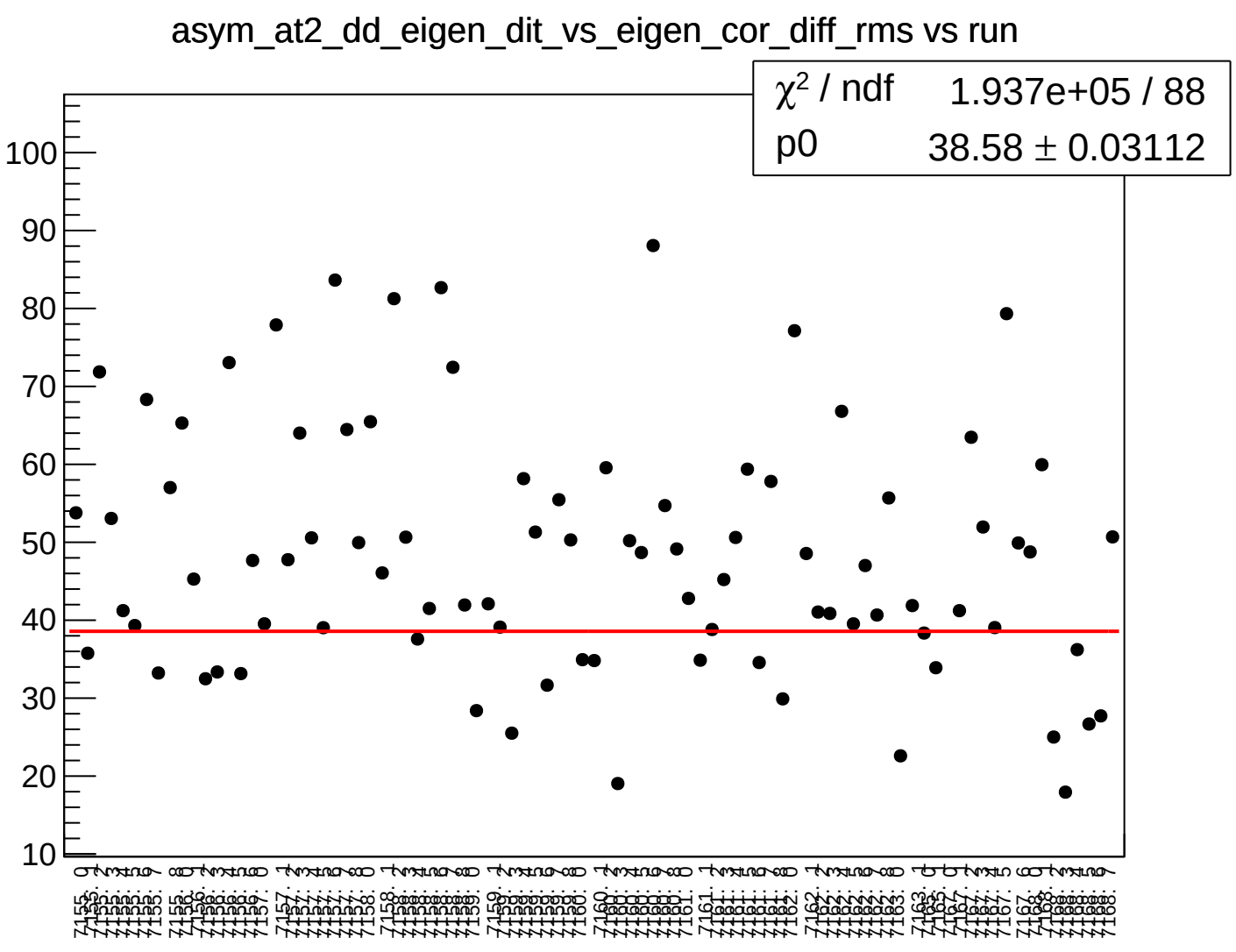

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 3.873e+05 / 88
p0 0.006542 ± 5.645e−06
0.014
0.012
0.01
0.008
0.006
0.004

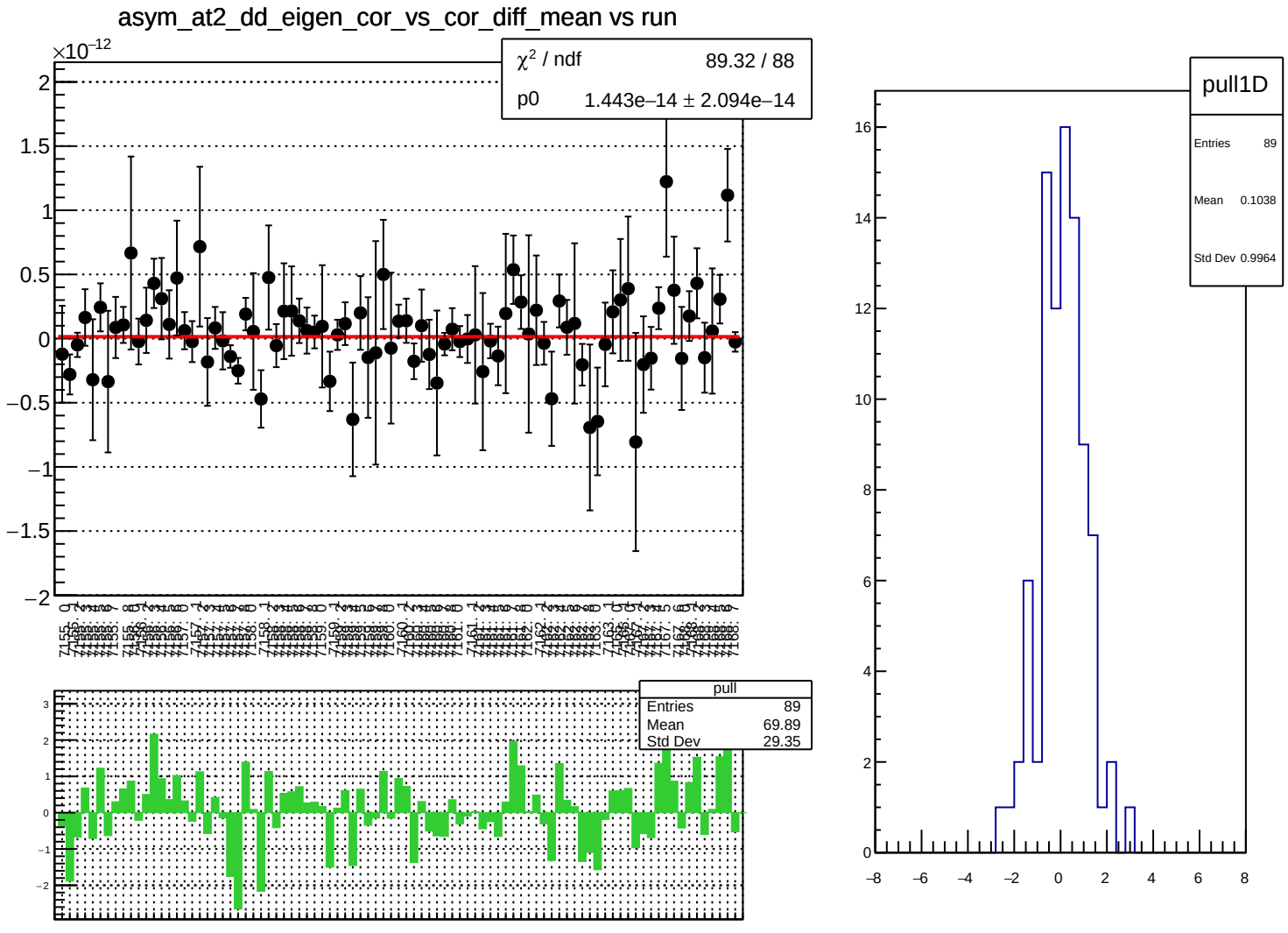

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.07 / 88
p0 0.009366 ± 0.04401
pull
Entries 89
Mean −148.8
Std Dev 0
pull1D
Entries 89
Mean −0.01981
Std Dev 0.9303

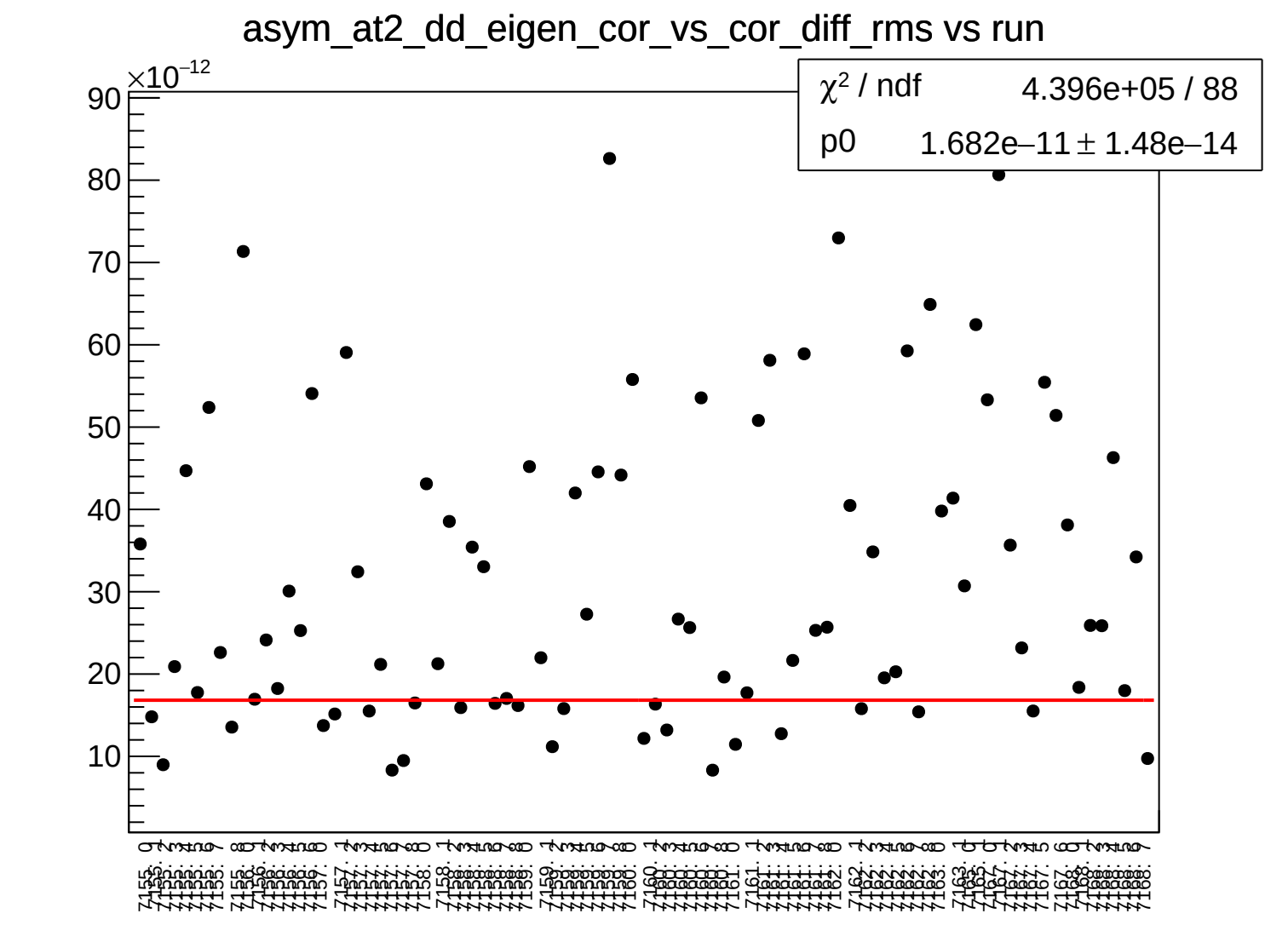

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 38.58 ± 0.03112
100
90
80
70
60
50
40
30
20
10

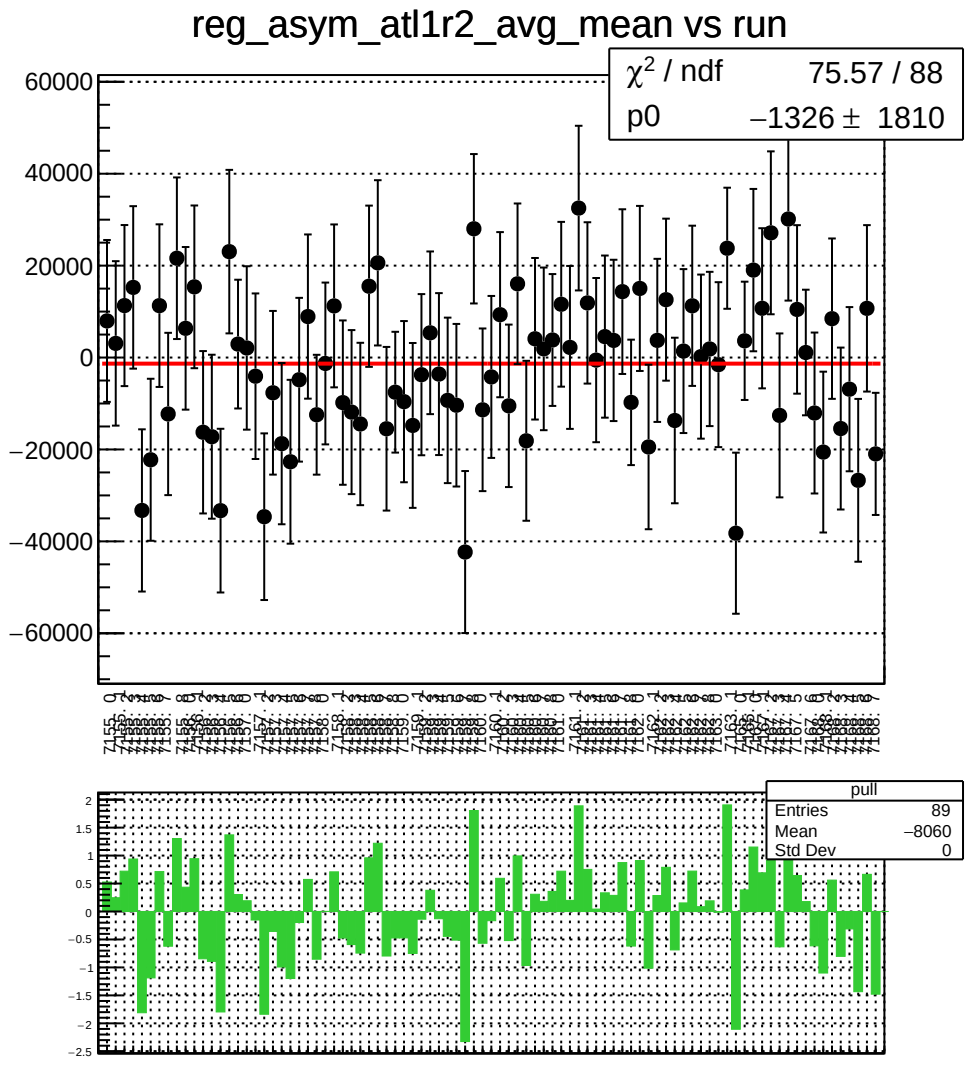

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.07 / 88
p0 0.009366 ± 0.04401
pull
Entries 89
Mean −148.8
Std Dev 0

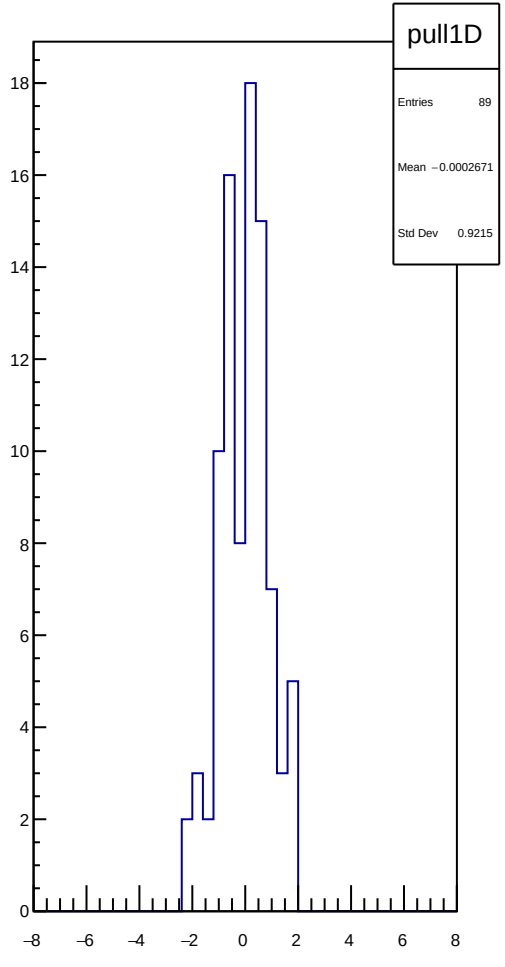

pull1D
Entries 89
Mean −0.01981
Std Dev 0.9303

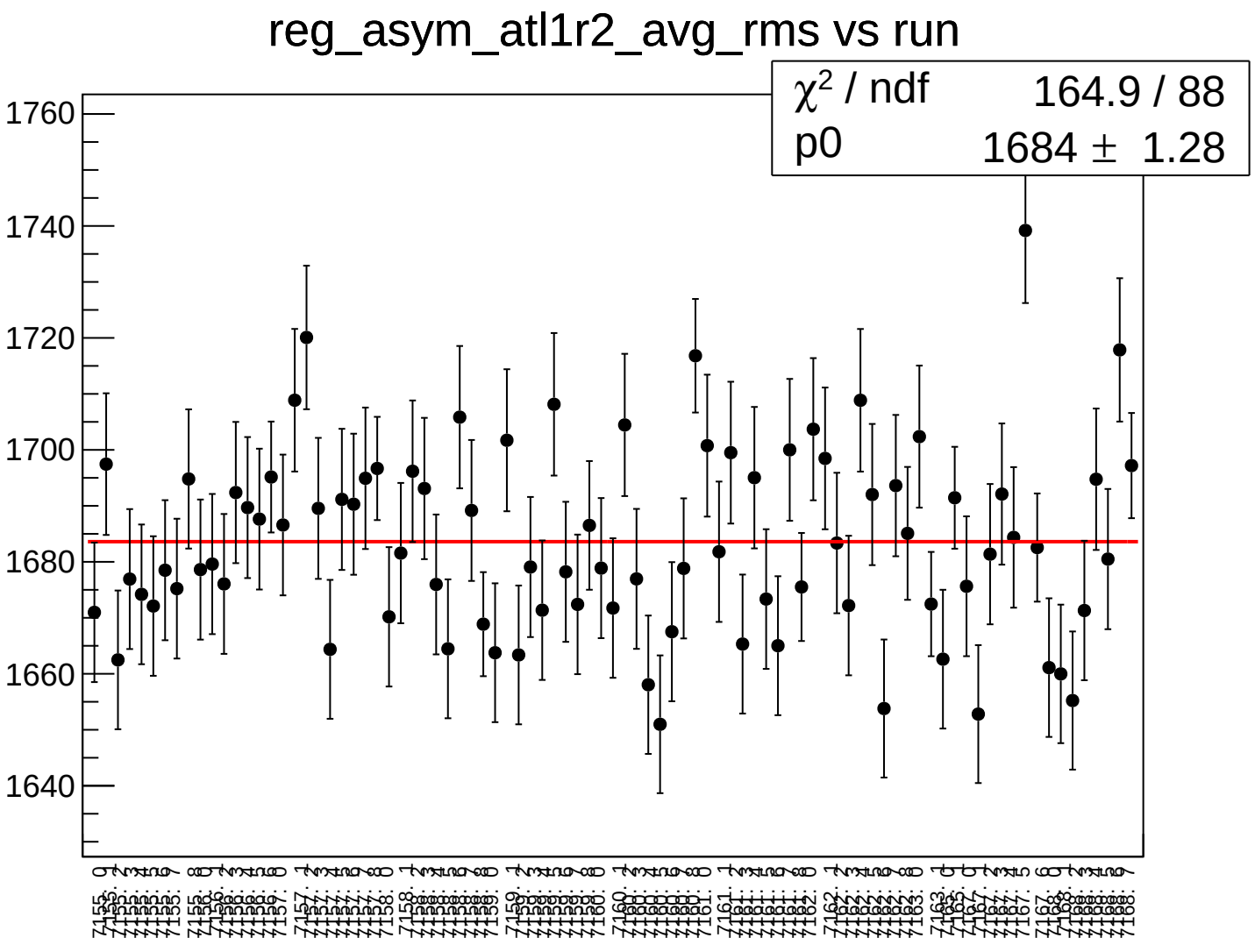

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.937e+05 / 88
p0 38.58 ± 0.03112
100
90
80
70
60
50
40
30
20
10

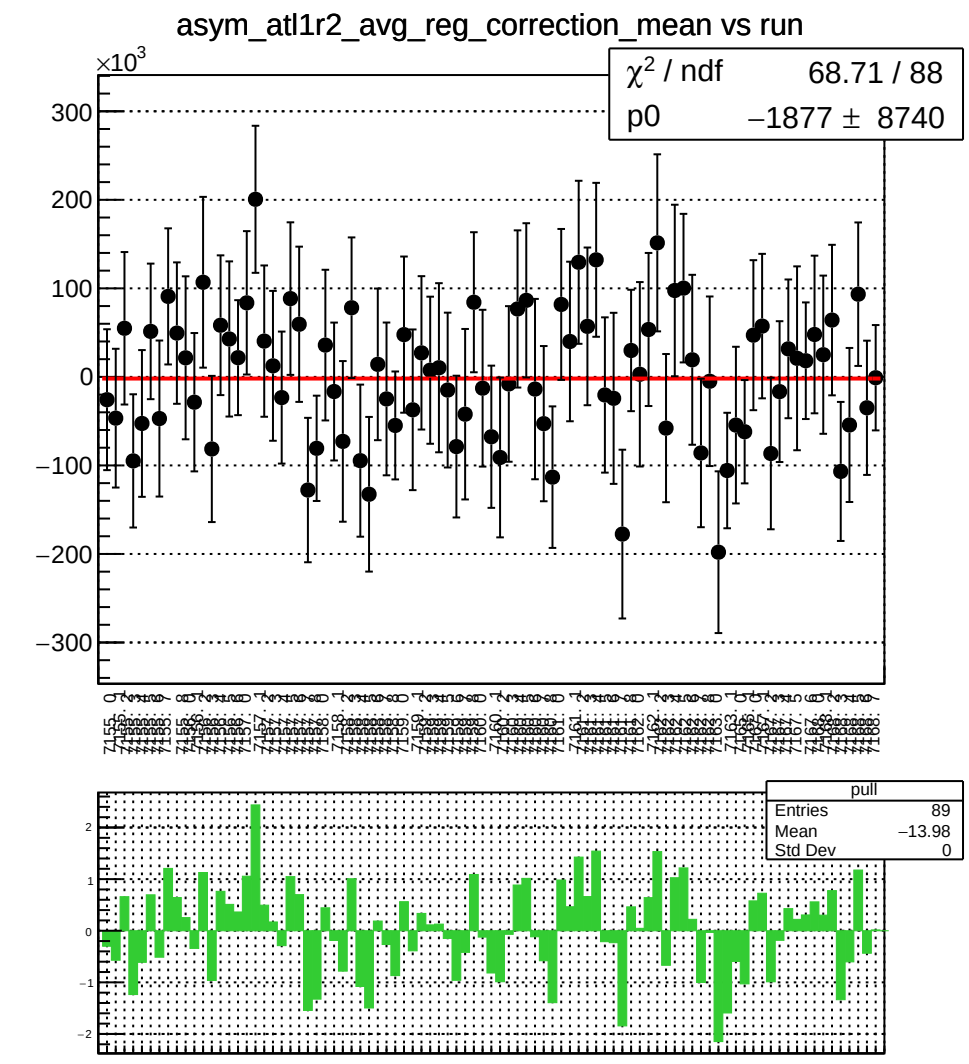

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.32 / 88
p0 1.443e−14 ± 2.094e−14
pull
Entries 89
Mean 69.89
Std Dev 29.35
pull1D
Entries 89
Mean 0.1038
Std Dev 0.9964

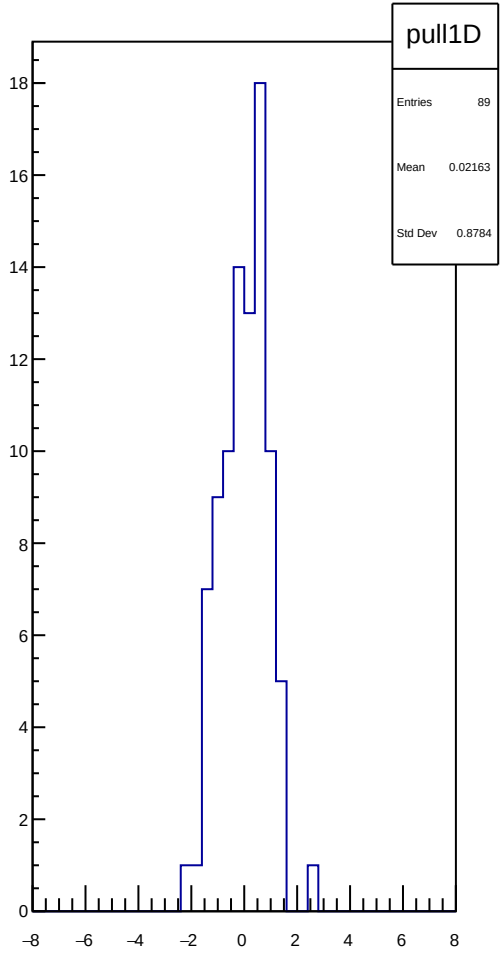

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.396e+05 / 88
p0 1.682e−11 ± 1.48e−14
90
80
70
60
50
40
30
20
10

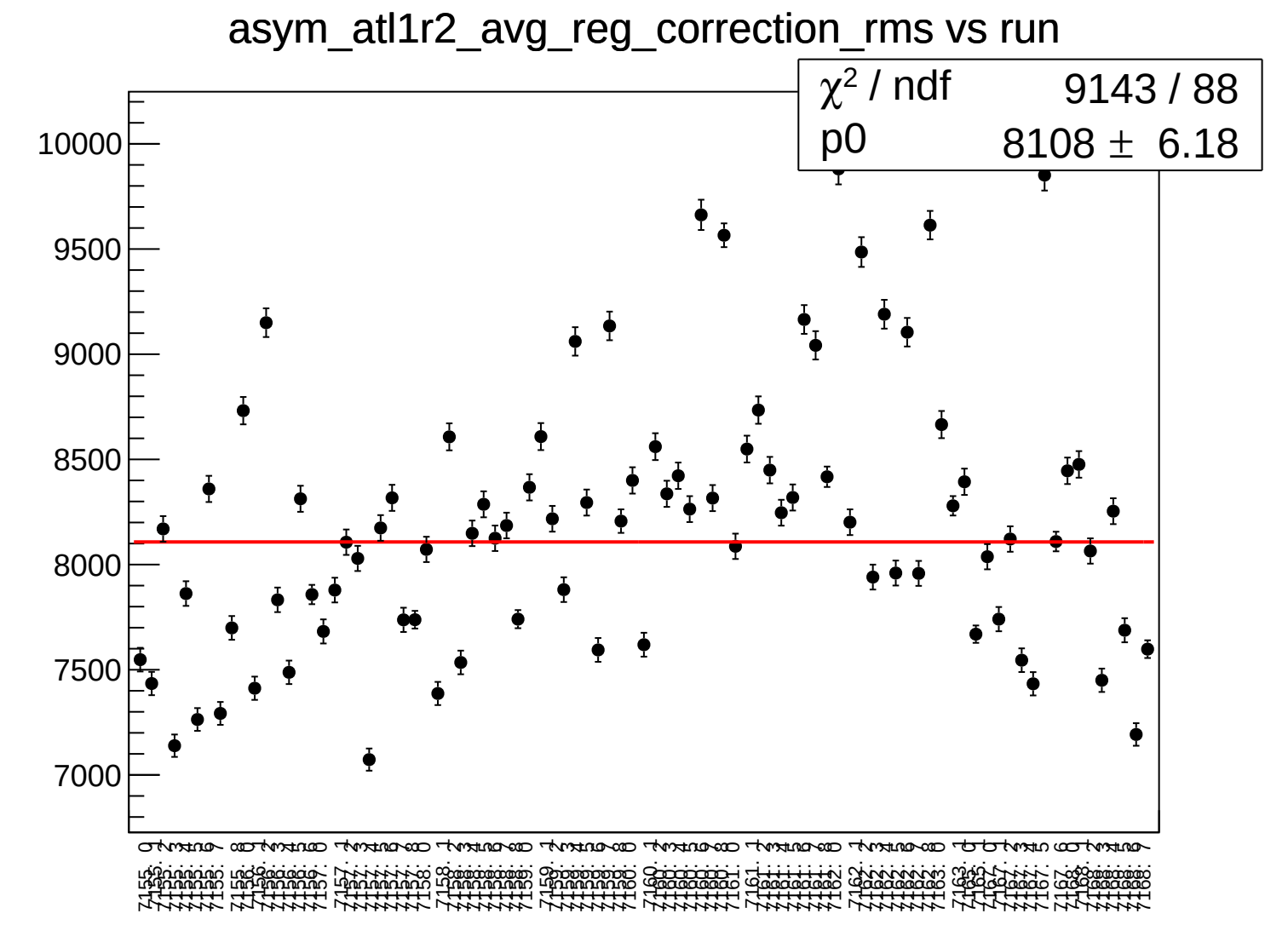

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 75.57 / 88
p0 −1326 ± 1810
pull
Entries 89
Mean −8060
Std Dev 0

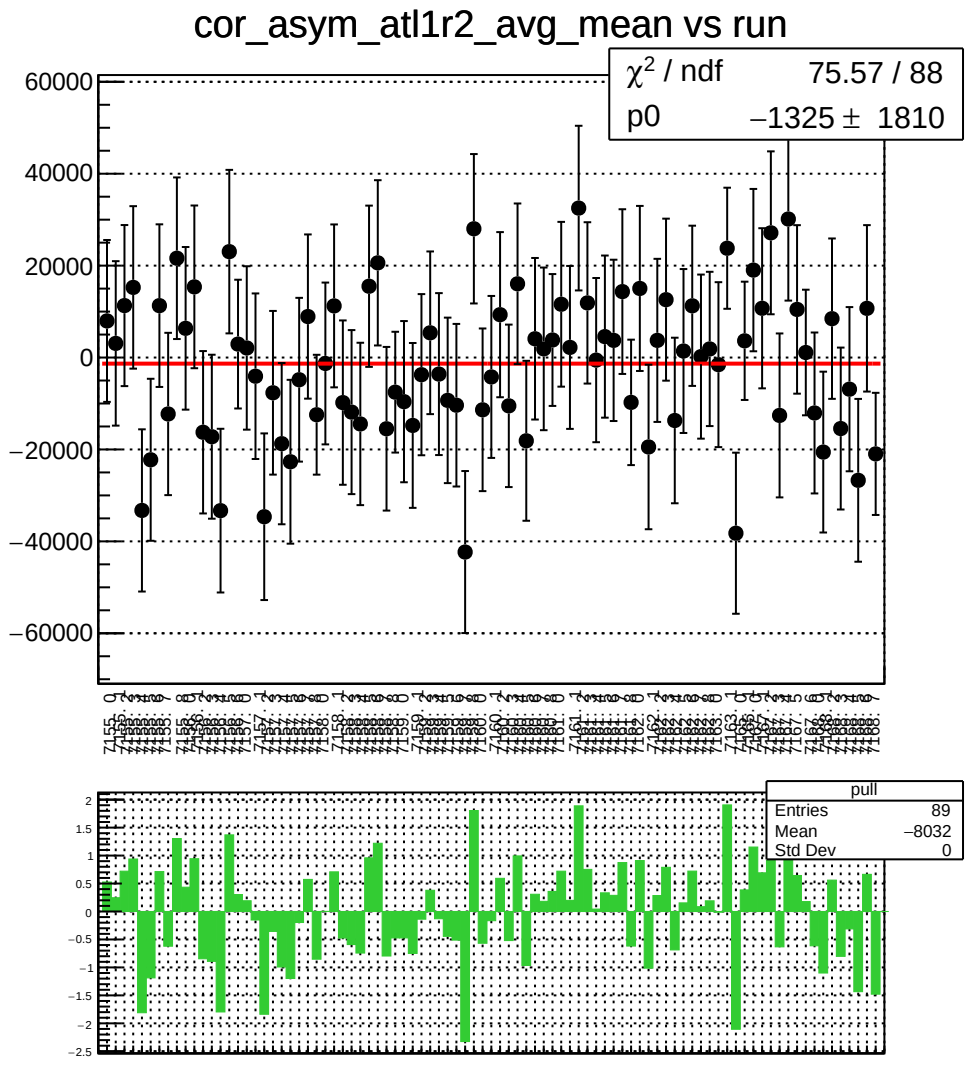

pull1D
Entries 89
Mean −0.0002671
Std Dev 0.9215

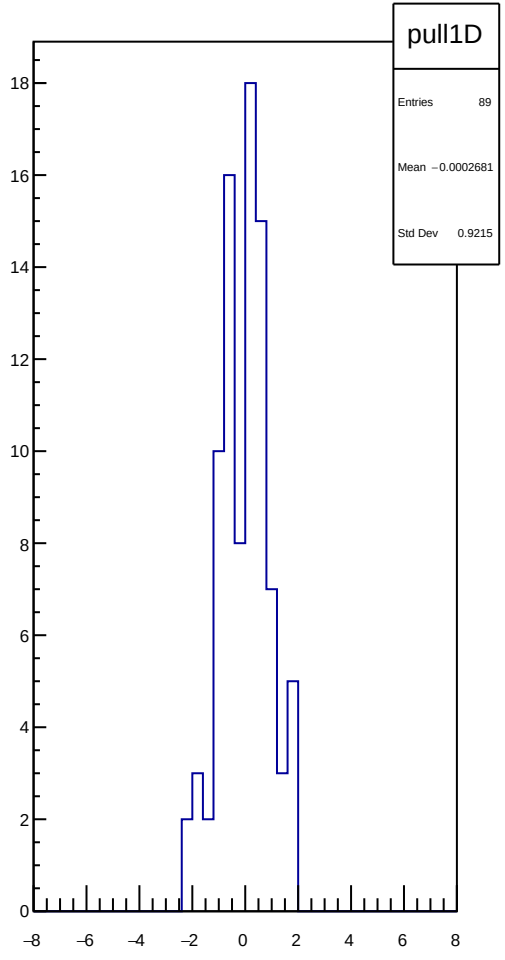

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 164.9 / 88
p0 1684 ± 1.28
1760
1740
1720
1700
1680
1660
1640

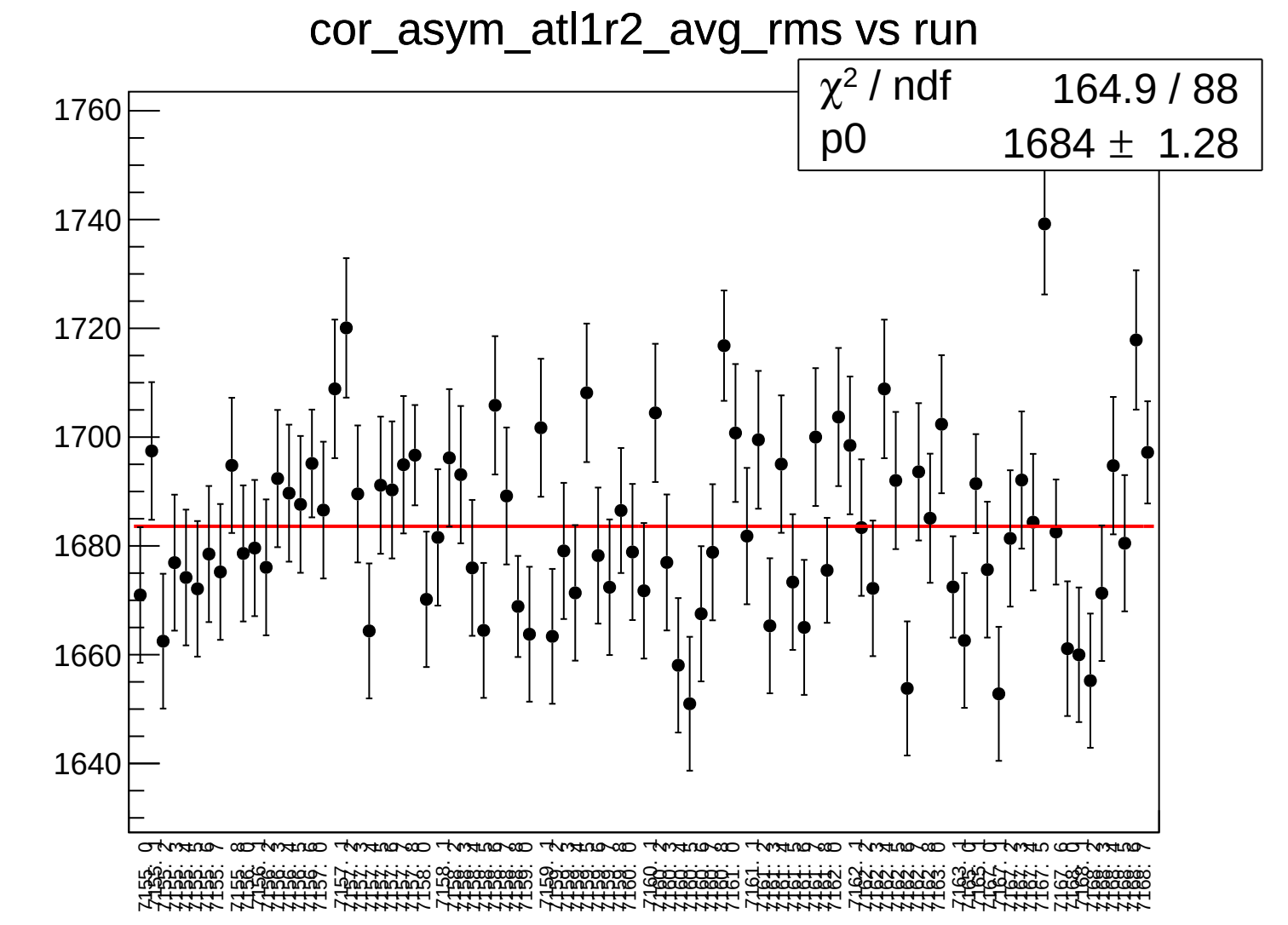

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.71 / 88
p0 −1877 ± 8740
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.98
Std Dev 0
2
1
0
−1
−2

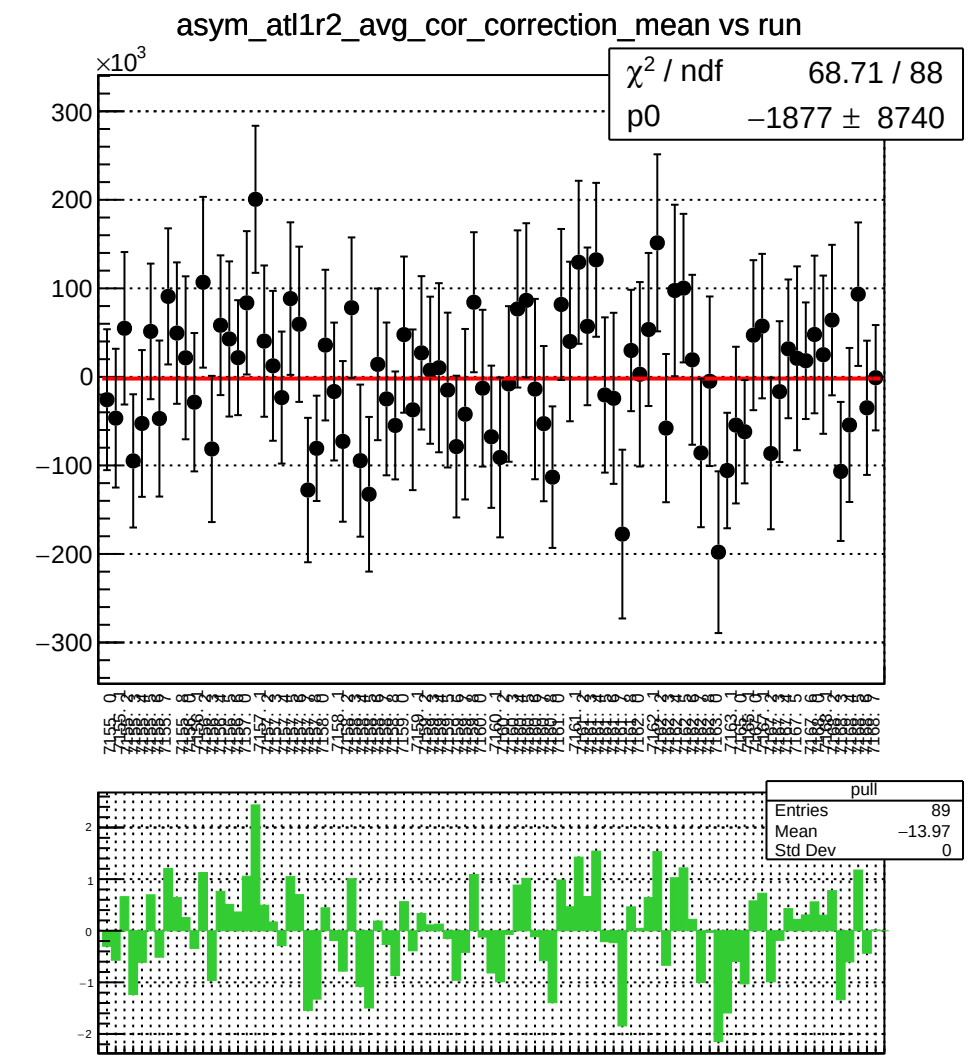

pull1D
Entries 89
Mean 0.02163
Std Dev 0.8784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

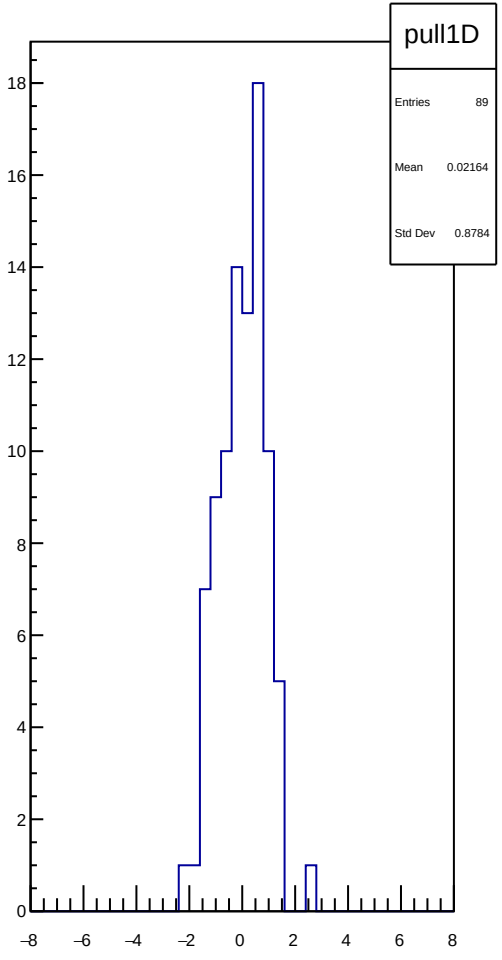

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 9143 / 88
p0 8108 ± 6.18
10000
9500
9000
8500
8000
7500
7000

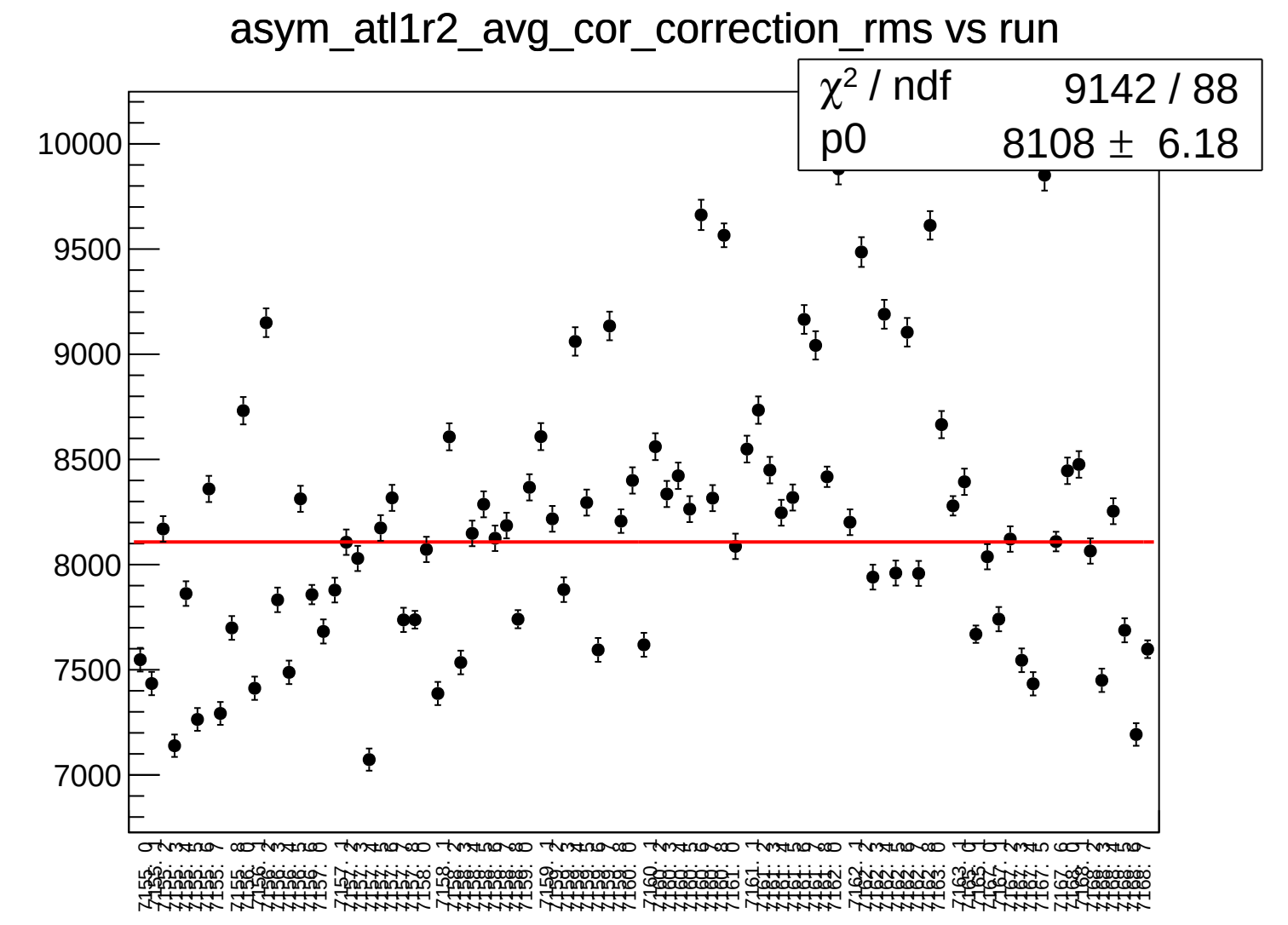

cor_asym_atl1r2_avg_mean vs run
χ² / ndf 75.57 / 88
p0 −1325 ± 1810
pull
Entries 89
Mean −8032
Std Dev 0

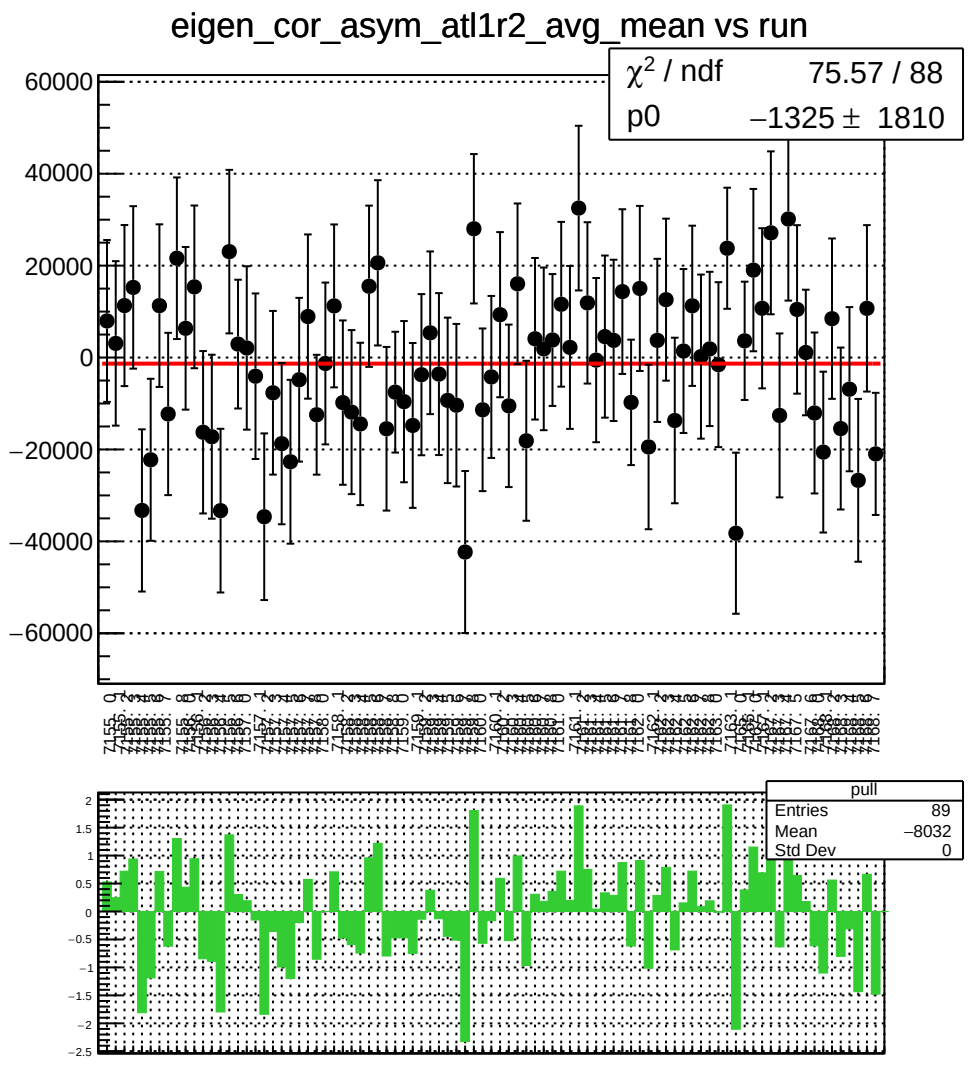

pull1D
Entries 89
Mean −0.0002681
Std Dev 0.9215

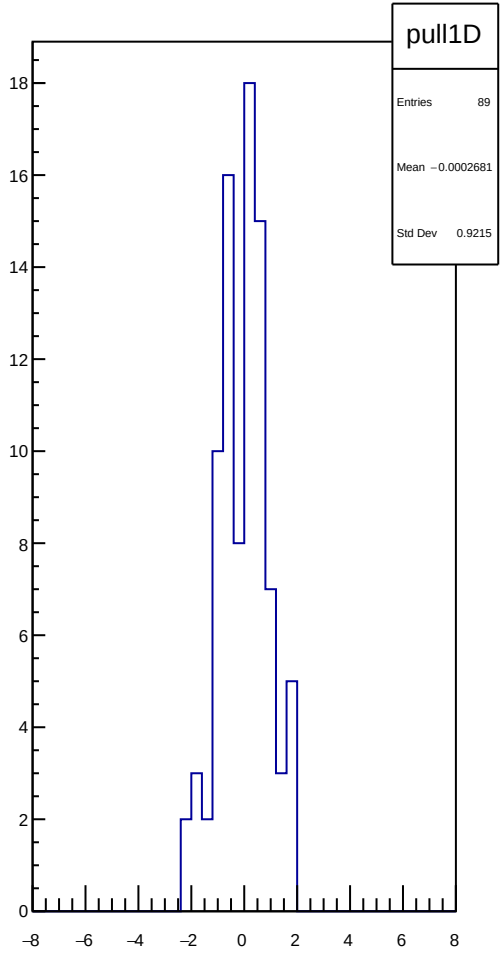

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 164.9 / 88
p0 1684 ± 1.28
1760
1740
1720
1700
1680
1660
1640

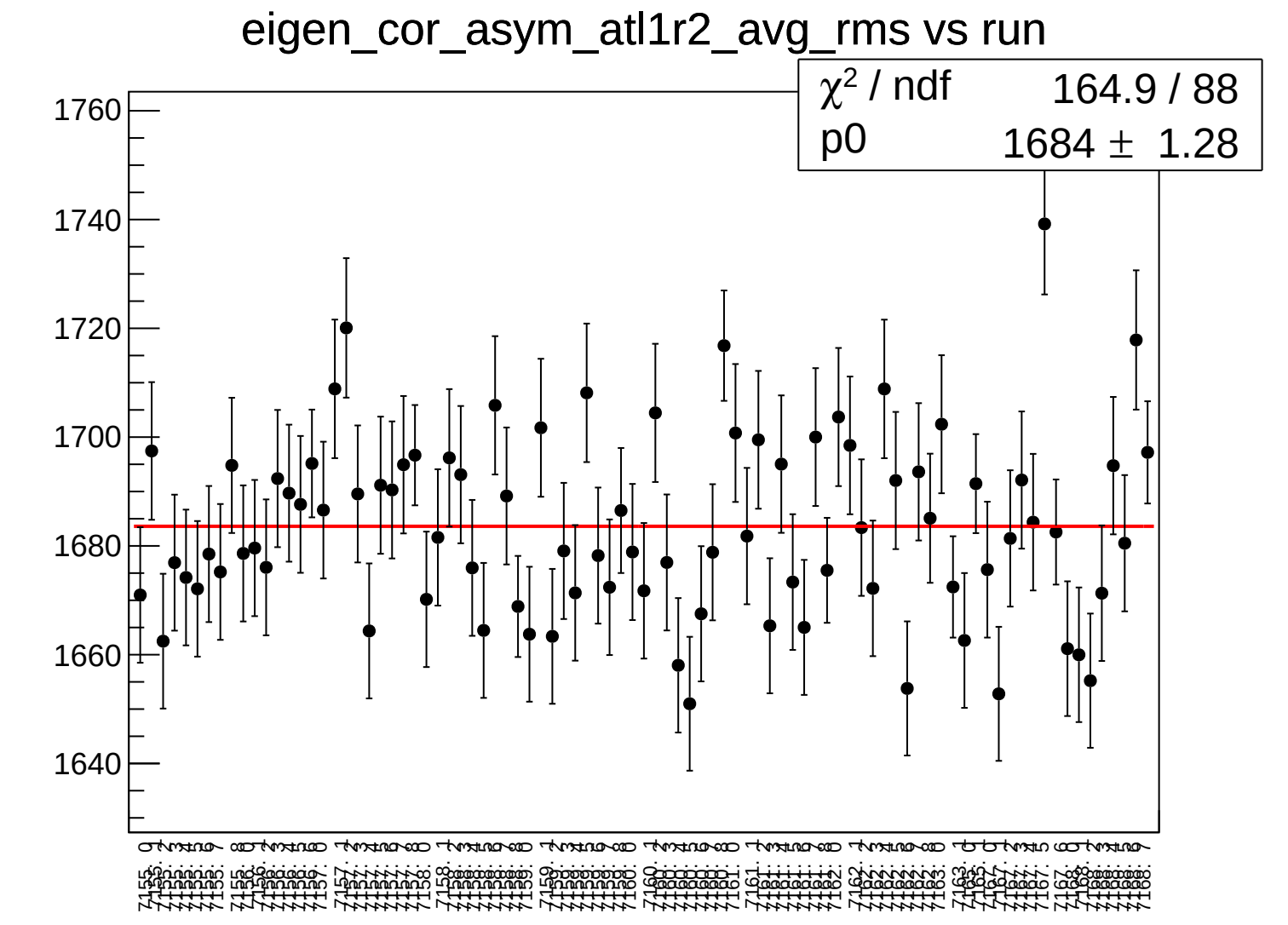

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.71 / 88
p0 −1877 ± 8740
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.97
Std Dev 0
2
1
0
−1
−2

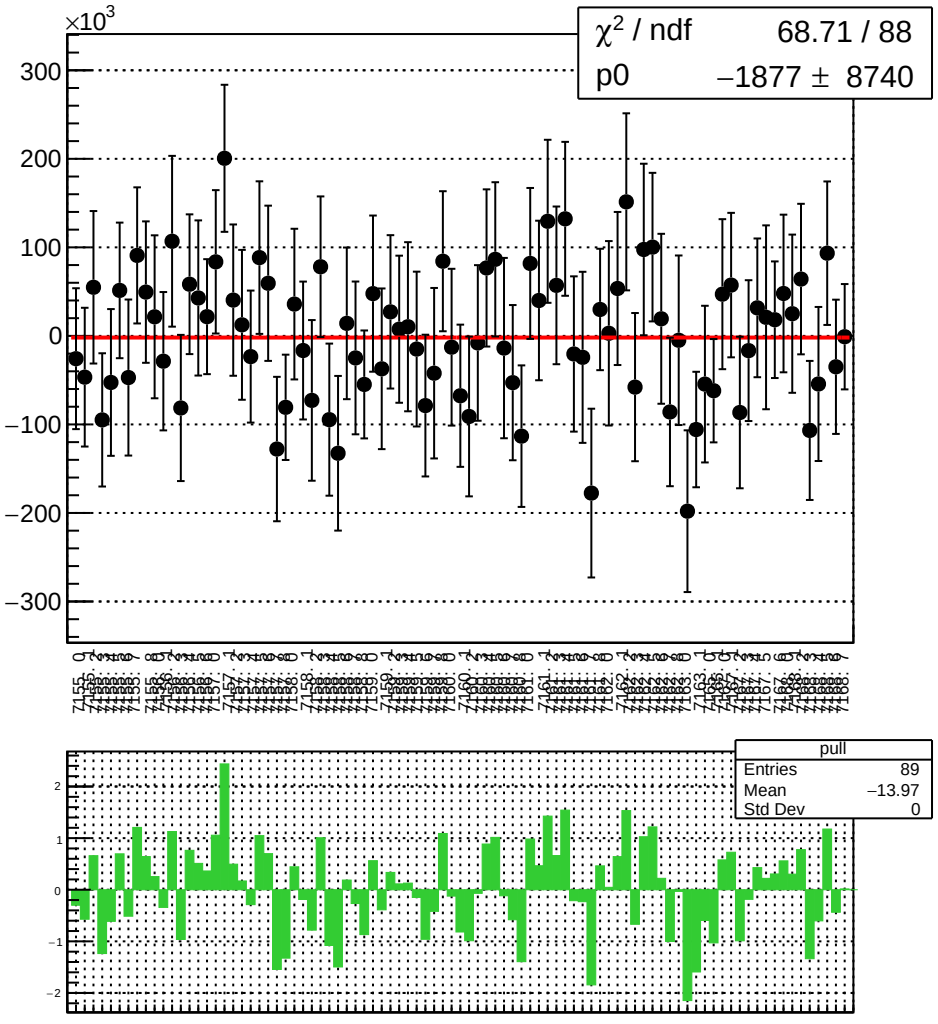

pull1D
Entries 89
Mean 0.02164
Std Dev 0.8784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

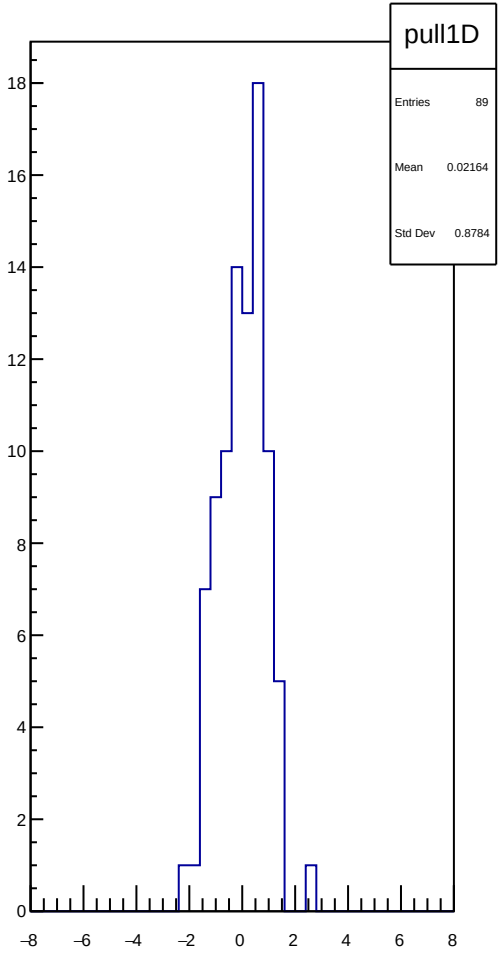

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 9142 / 88
p0 8108 ± 6.18
10000
9500
9000
8500
8000
7500
7000

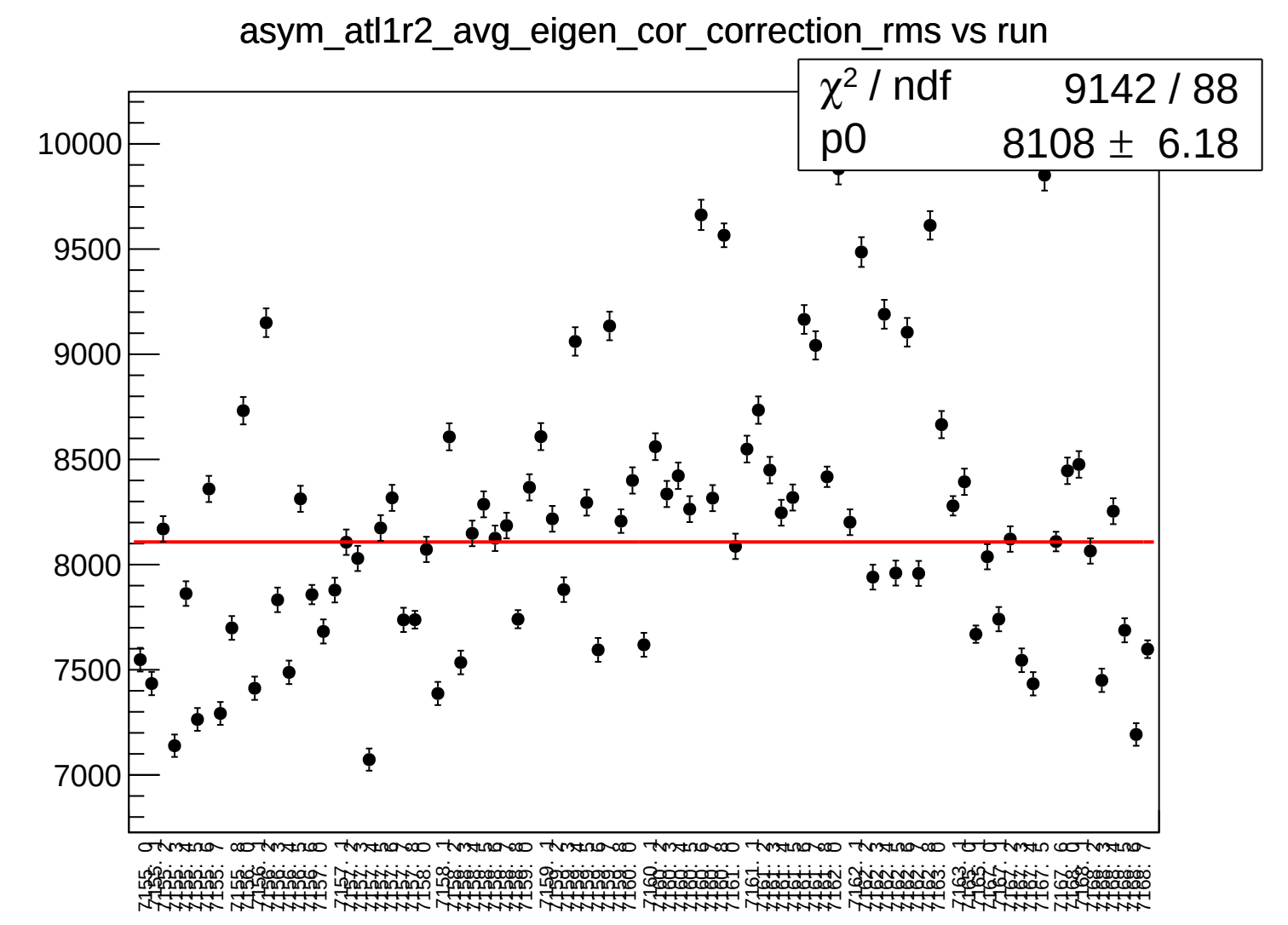

eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 75.57 / 88
p0 −1325 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −8032
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

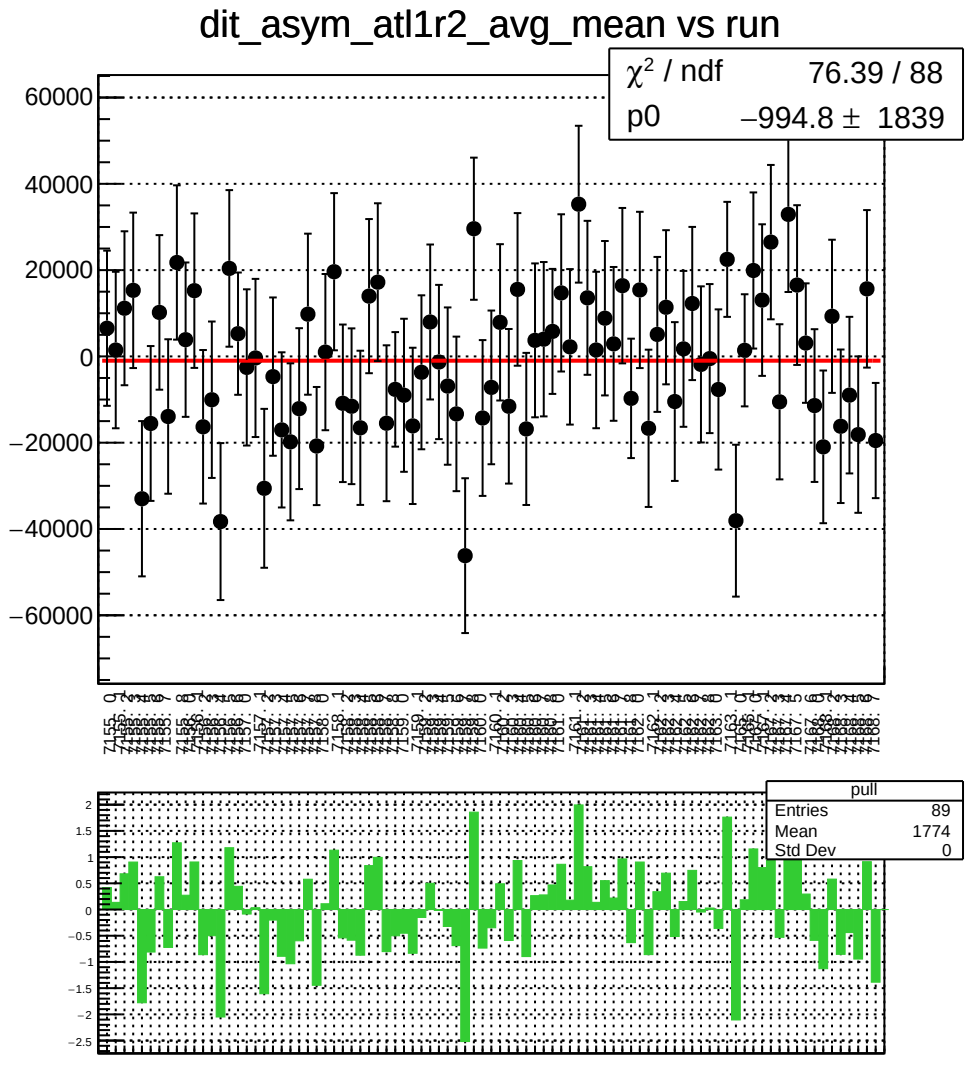

pull1D
Entries 89
Mean −0.0002681
Std Dev 0.9215
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

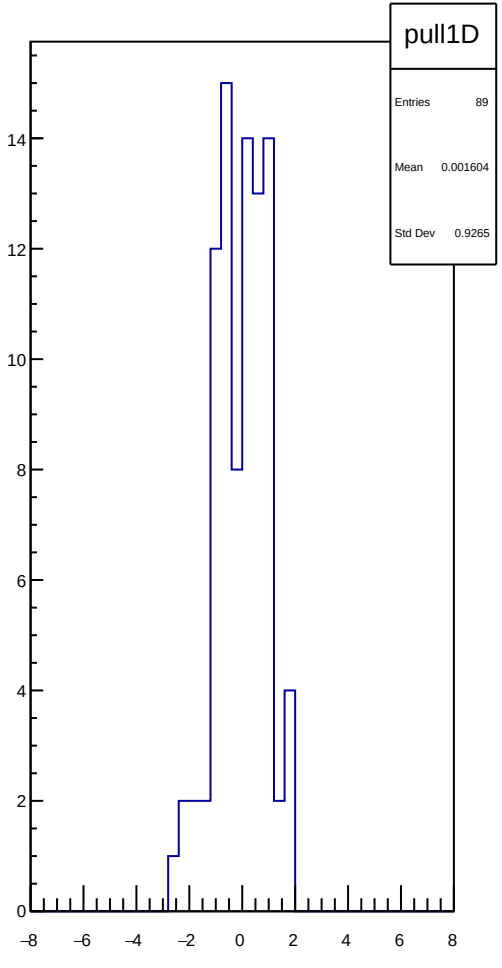

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 164.9 / 88
p0 1684 ± 1.28
1760
1740
1720
1700
1680
1660
1640

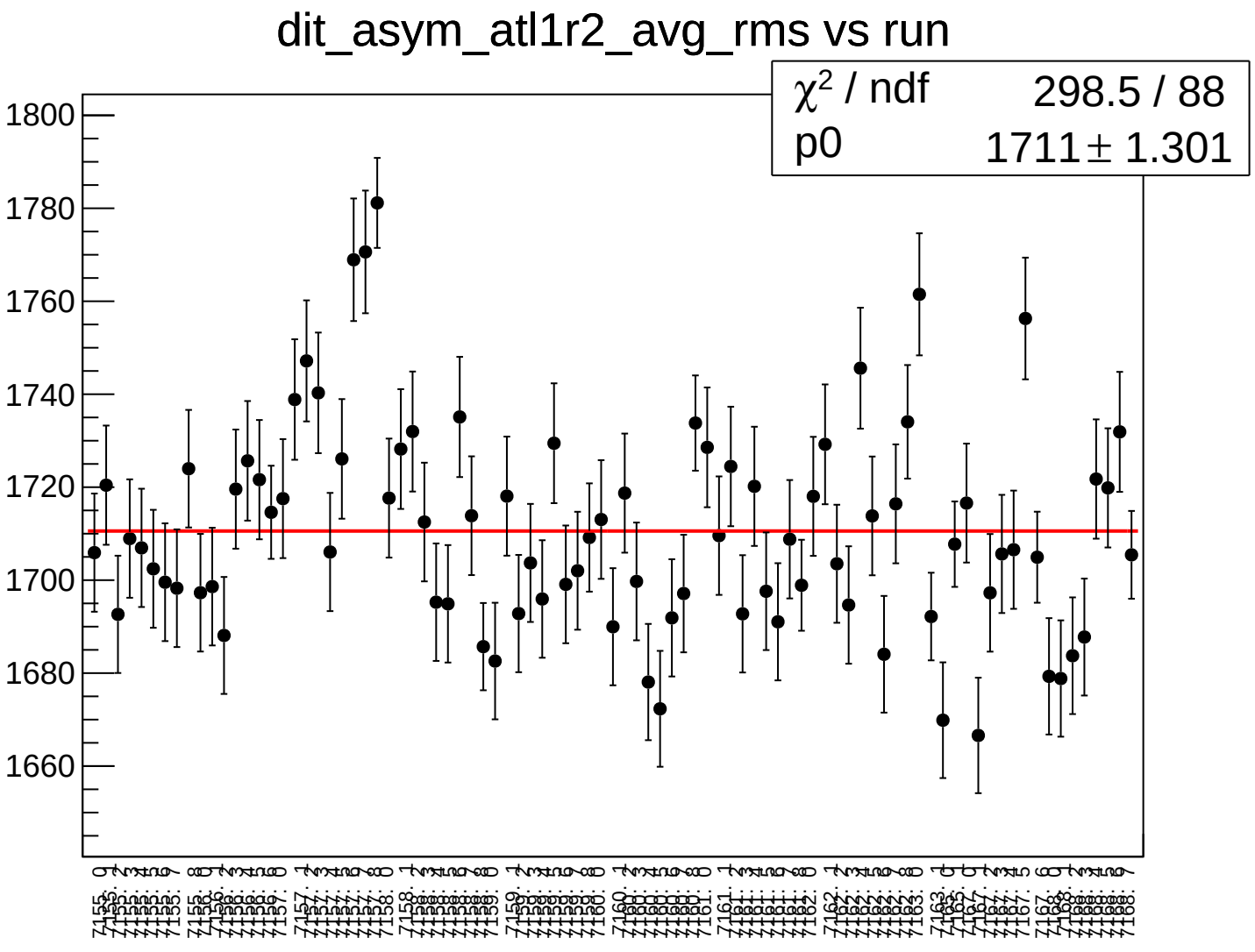

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.71 / 88
p0 −1877 ± 8740
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.97
Std Dev 0
2
1
0
−1
−2

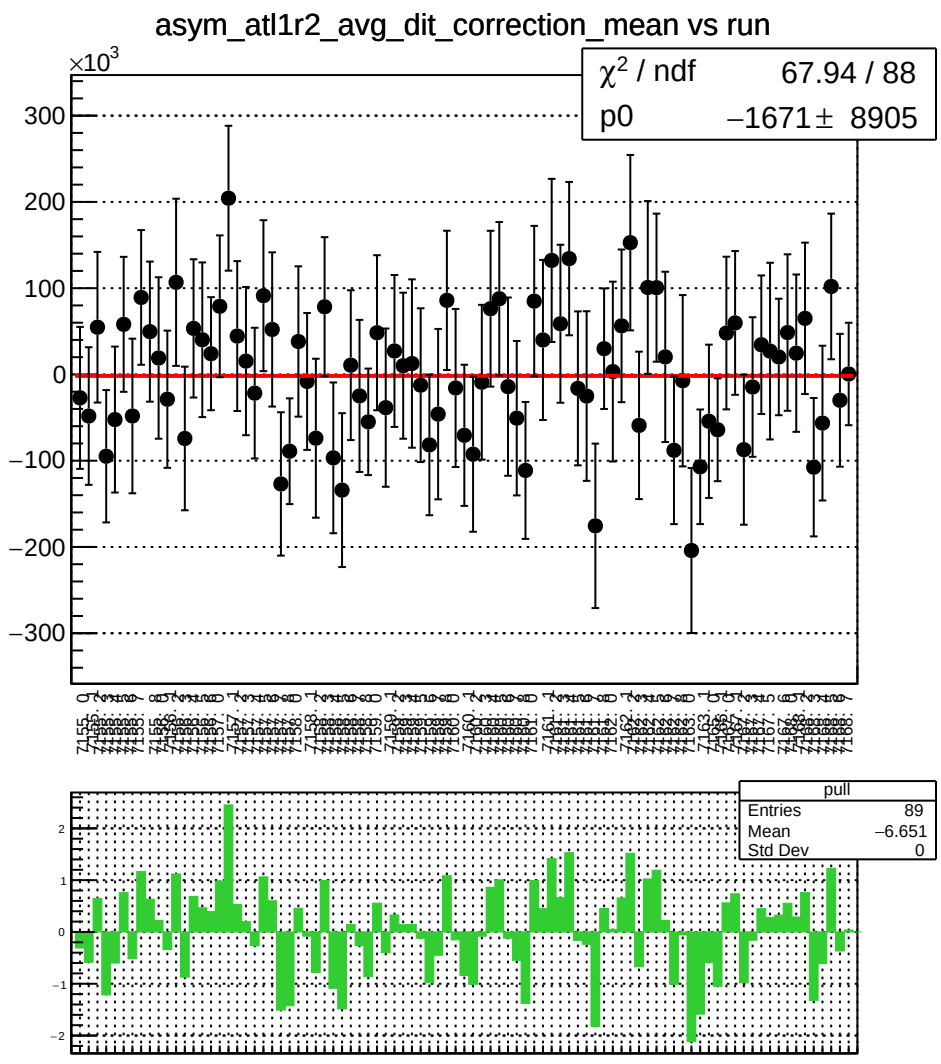

pull1D
Entries 89
Mean 0.02164
Std Dev 0.8784
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

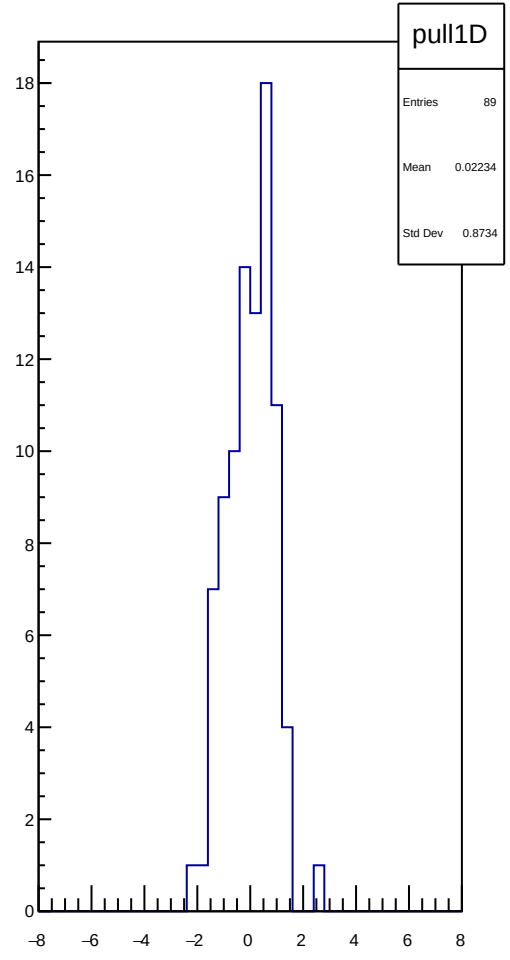

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9142 / 88
p0 8108 ± 6.18
10000
9500
9000
8500
8000
7500
7000

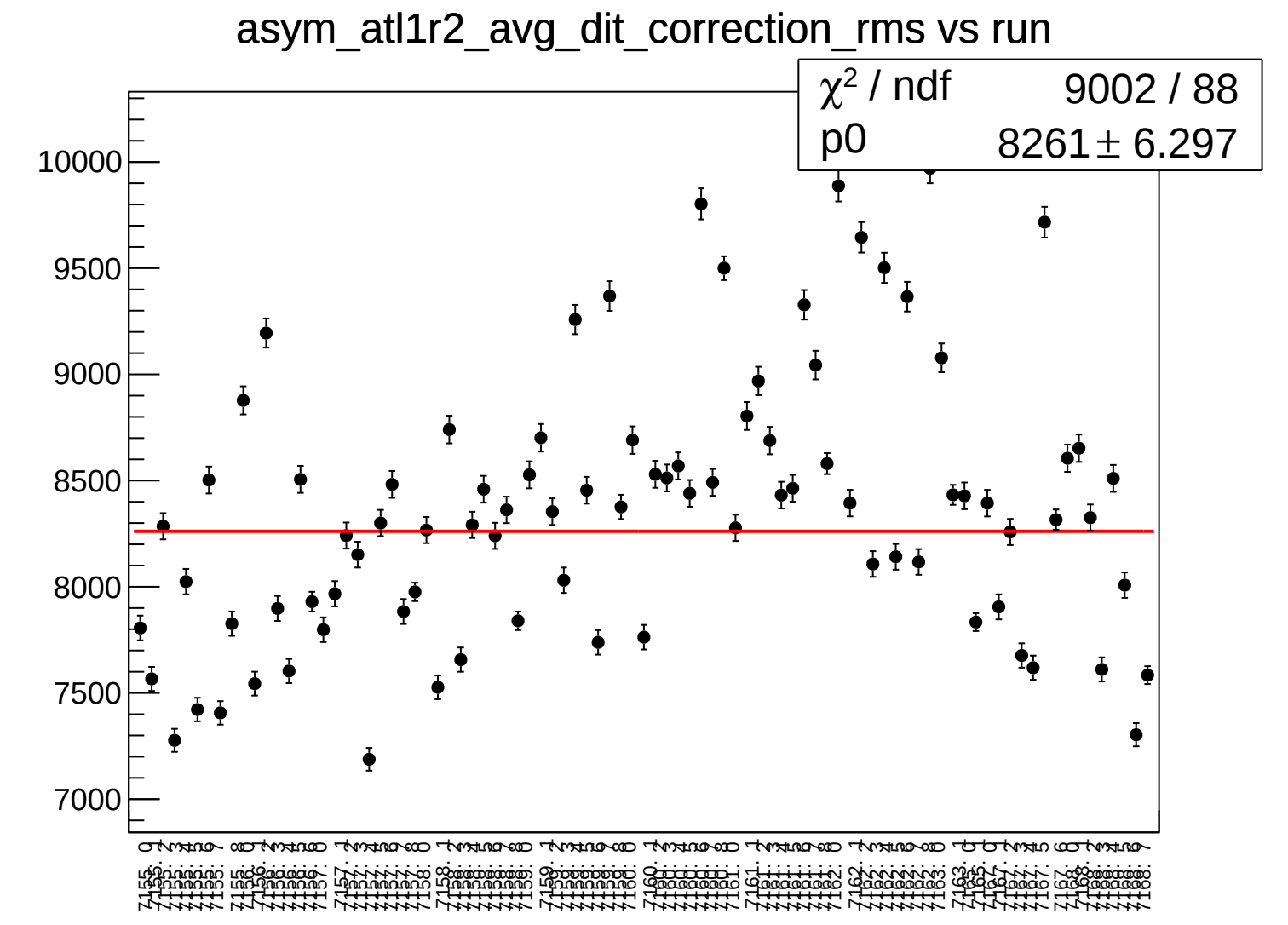

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.39 / 88
p0 −994.8 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

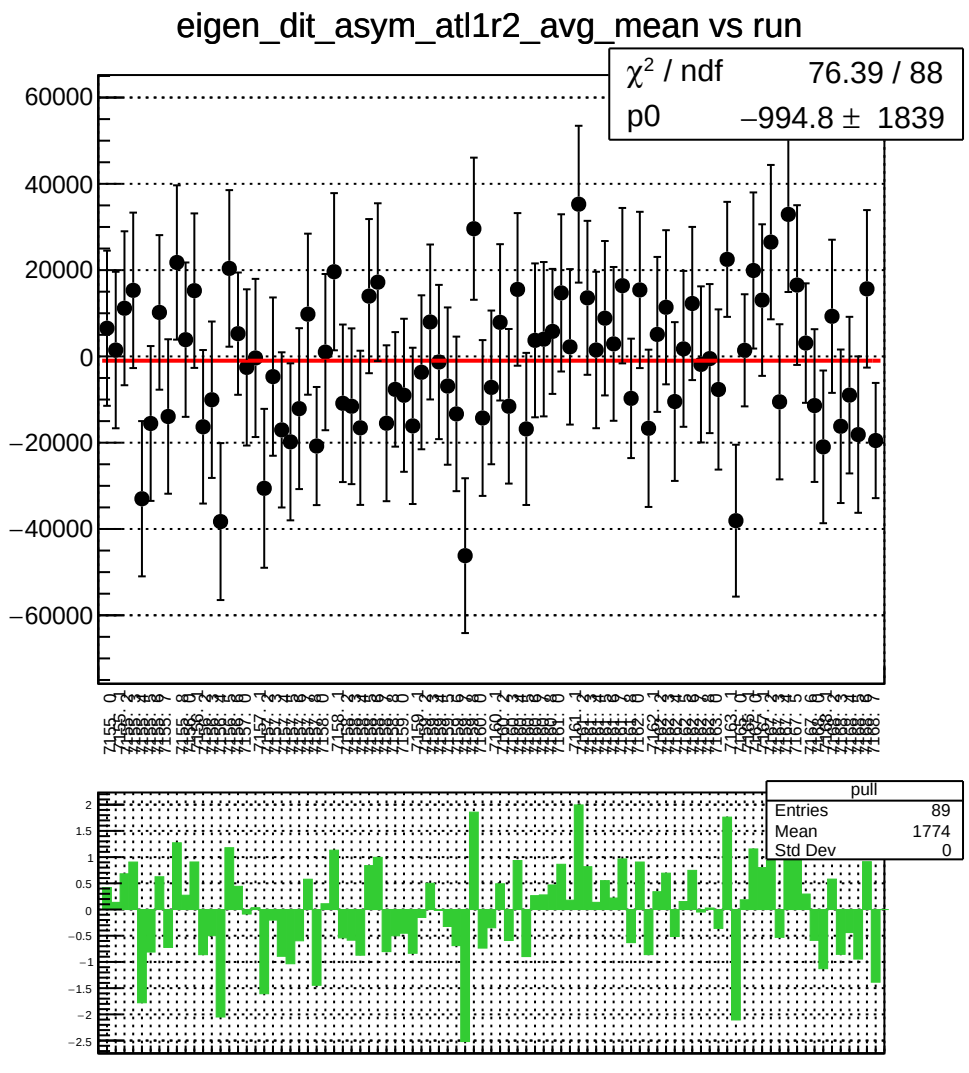

pull1D
Entries 89
Mean 0.001604
Std Dev 0.9265
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

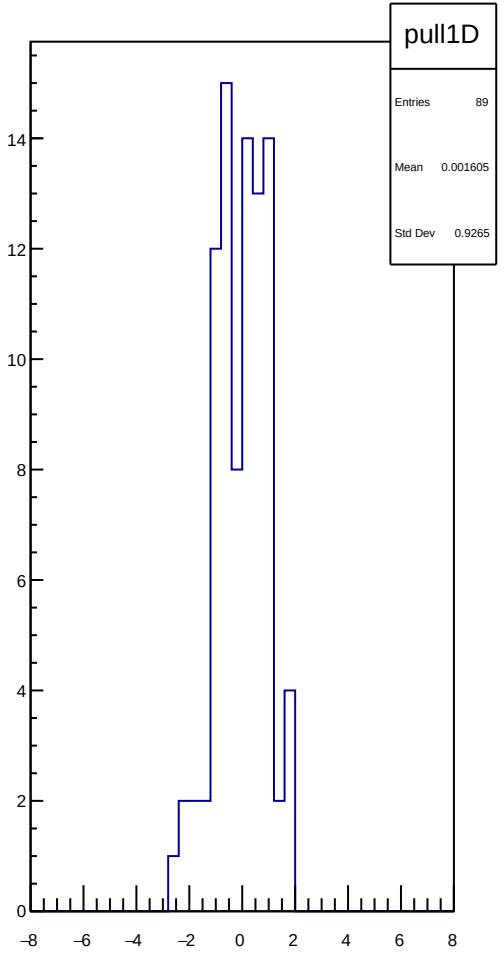

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 298.5 / 88
p0 1711 ± 1.301
1800
1780
1760
1740
1720
1700
1680
1660

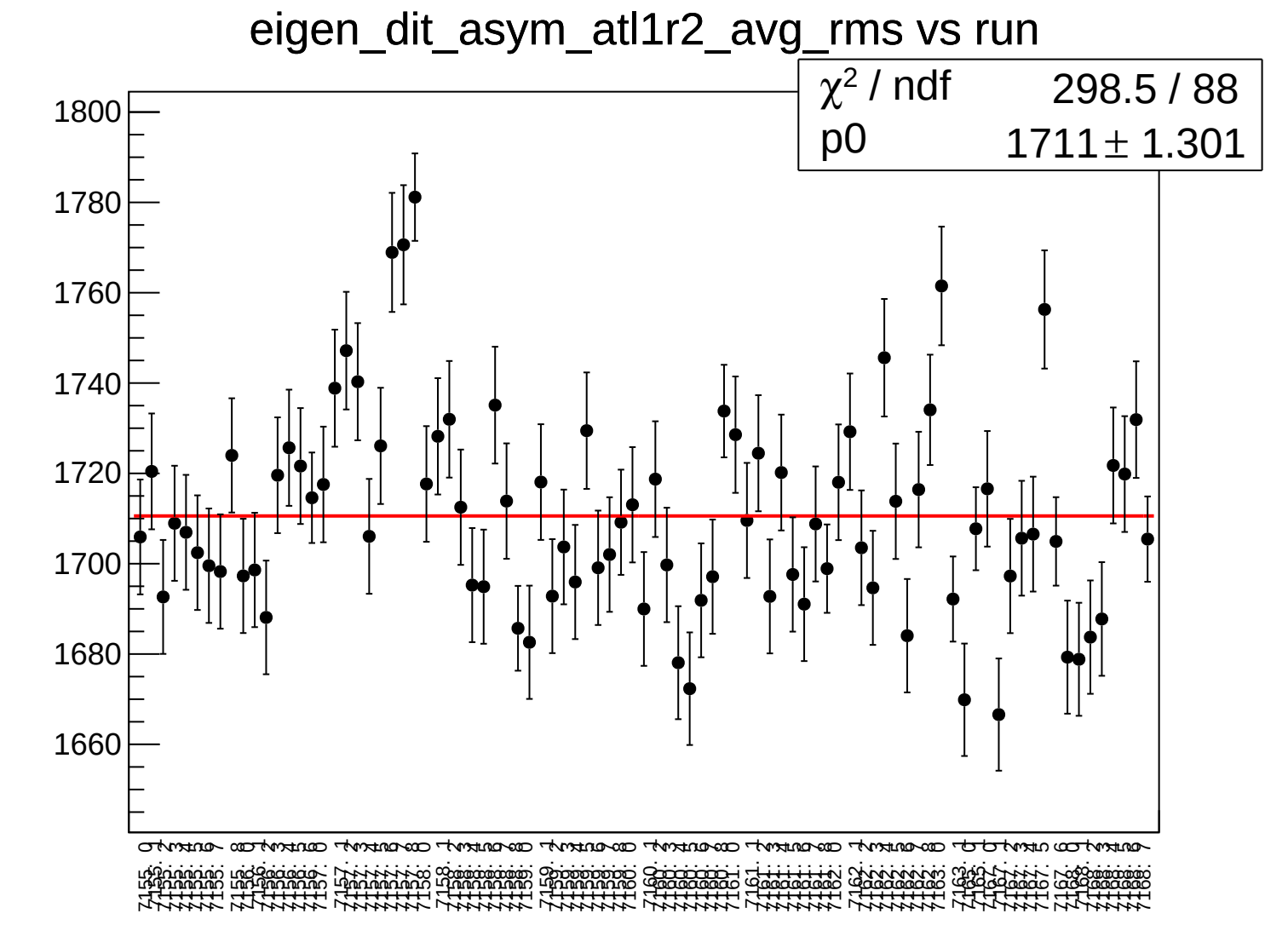

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.94 / 88
p0 −1671 ± 8905
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −6.651
Std Dev 0
2
1
0
−1
−2

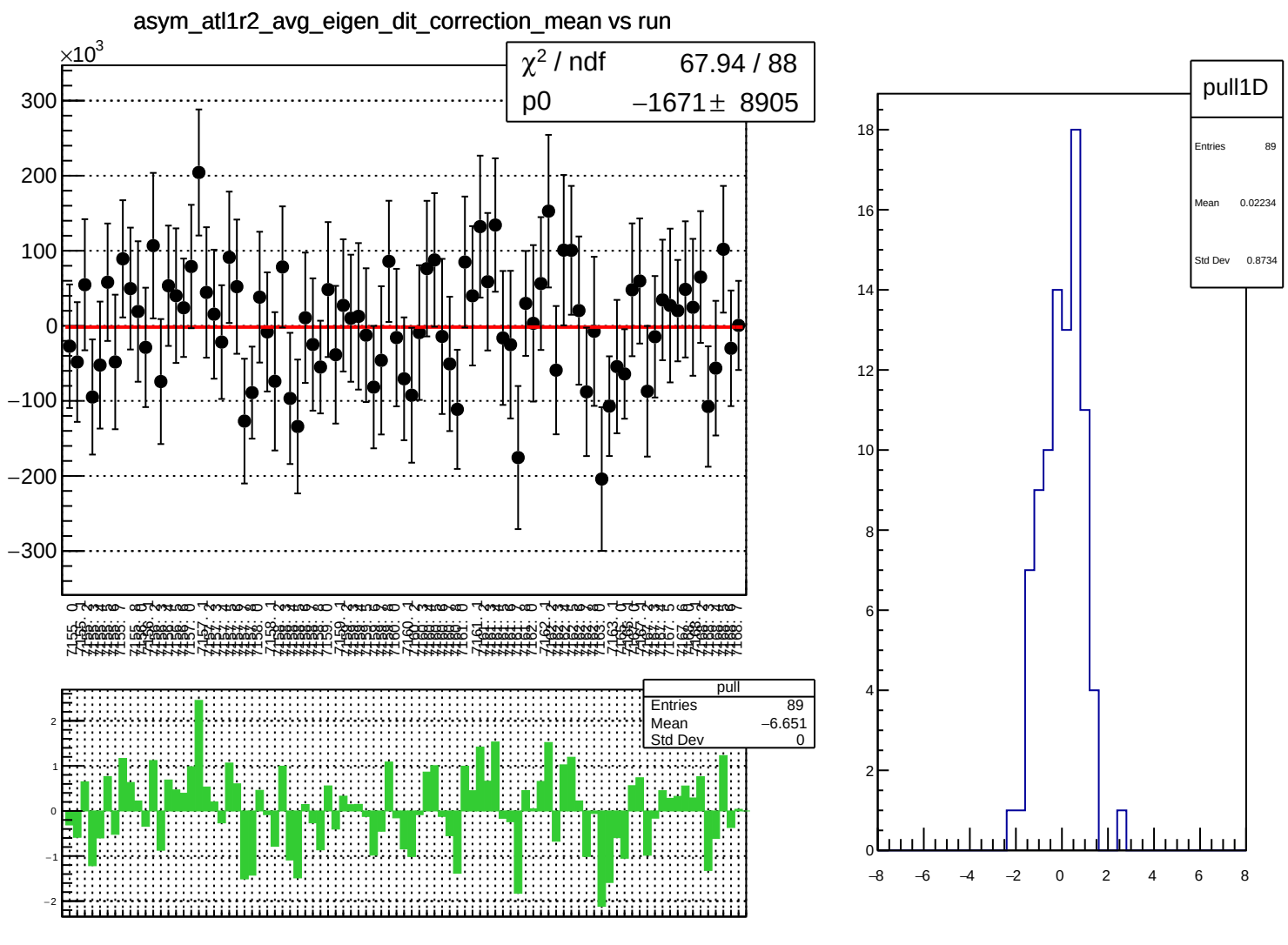

pull1D
Entries 89
Mean 0.02234
Std Dev 0.8734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

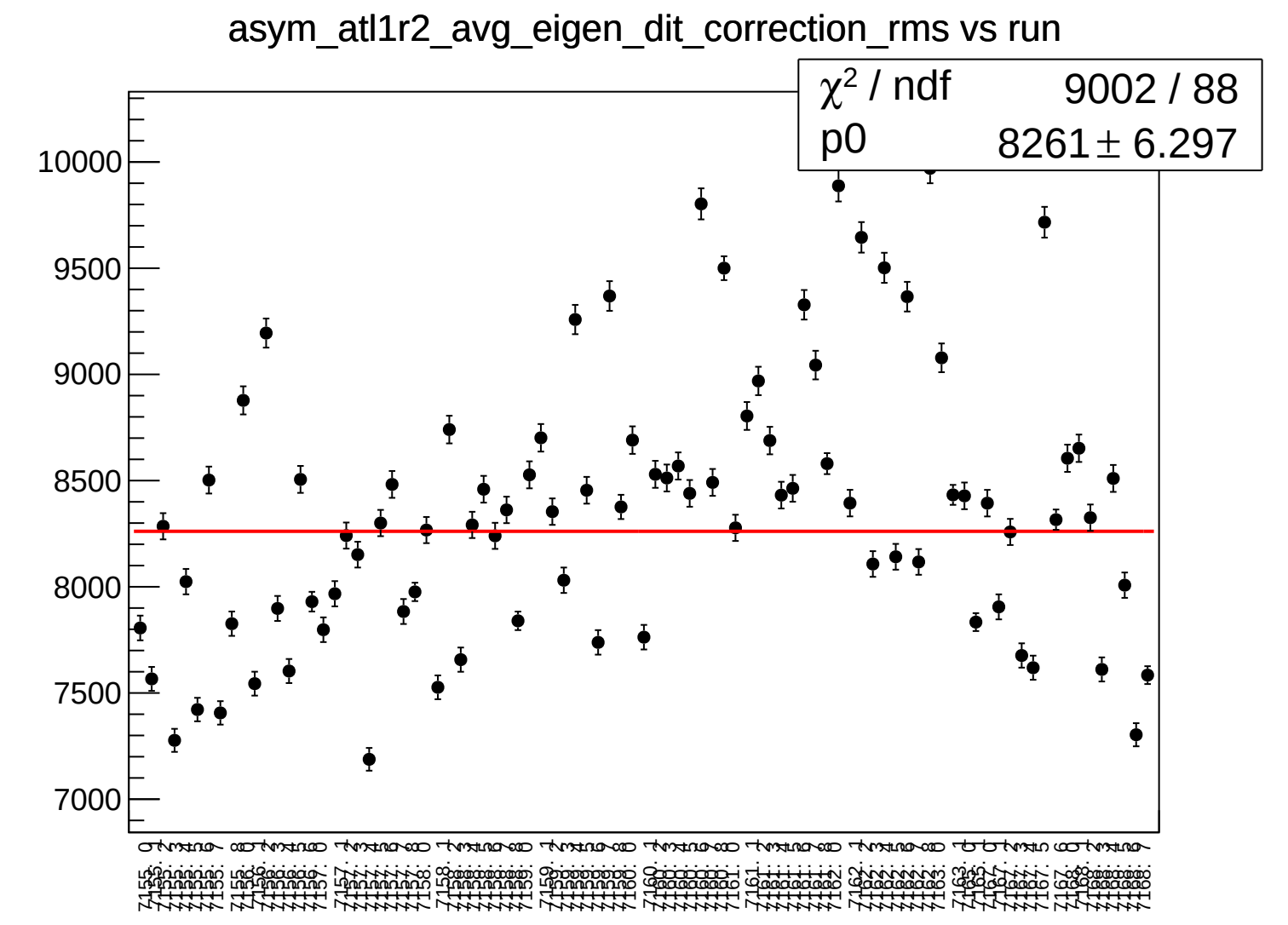

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 9002 / 88
p0 8261 ± 6.297
10000
9500
9000
8500
8000
7500
7000

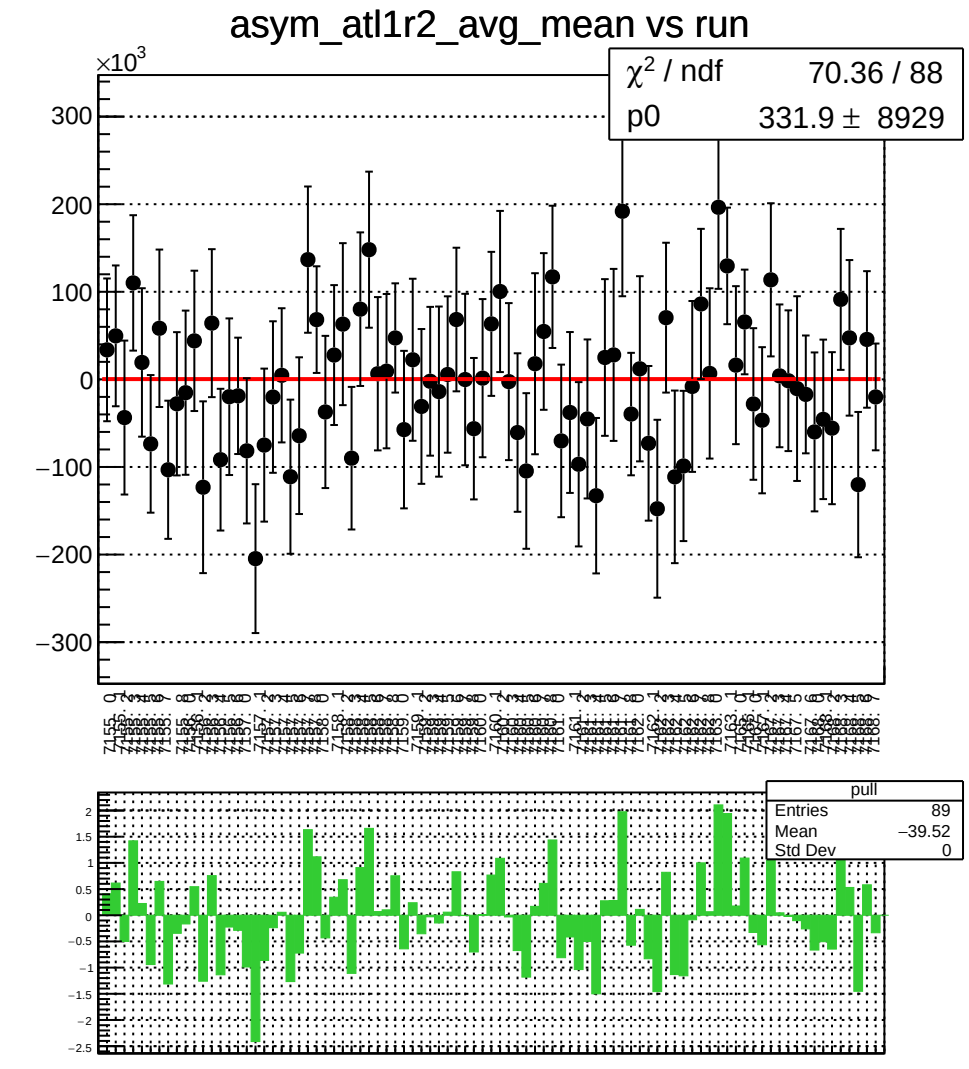

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 76.39 / 88
p0 −994.8 ± 1839
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 1774
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

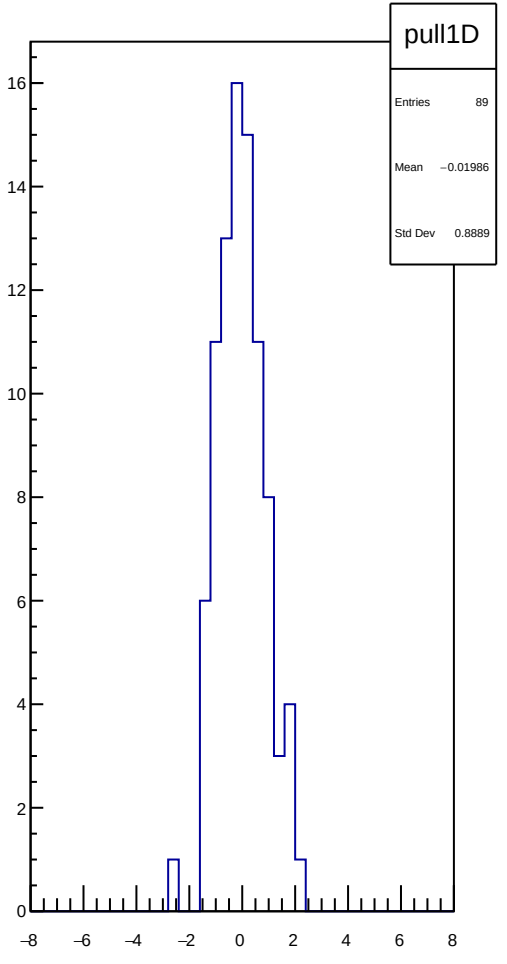

pull1D
Entries 89
Mean 0.001605
Std Dev 0.9265
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

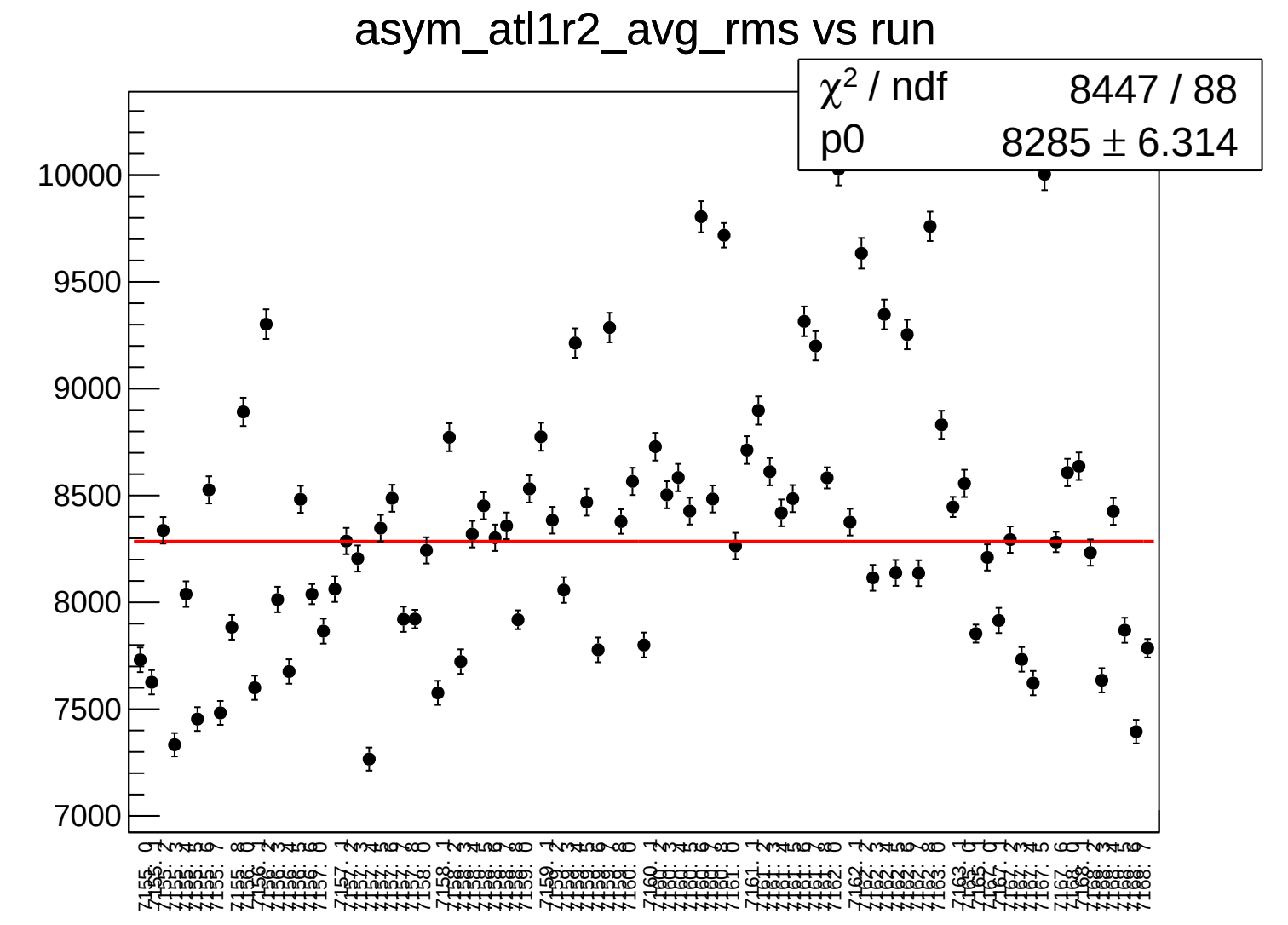

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 298.5 / 88
p0 1711 ± 1.301
1800
1780
1760
1740
1720
1700
1680
1660

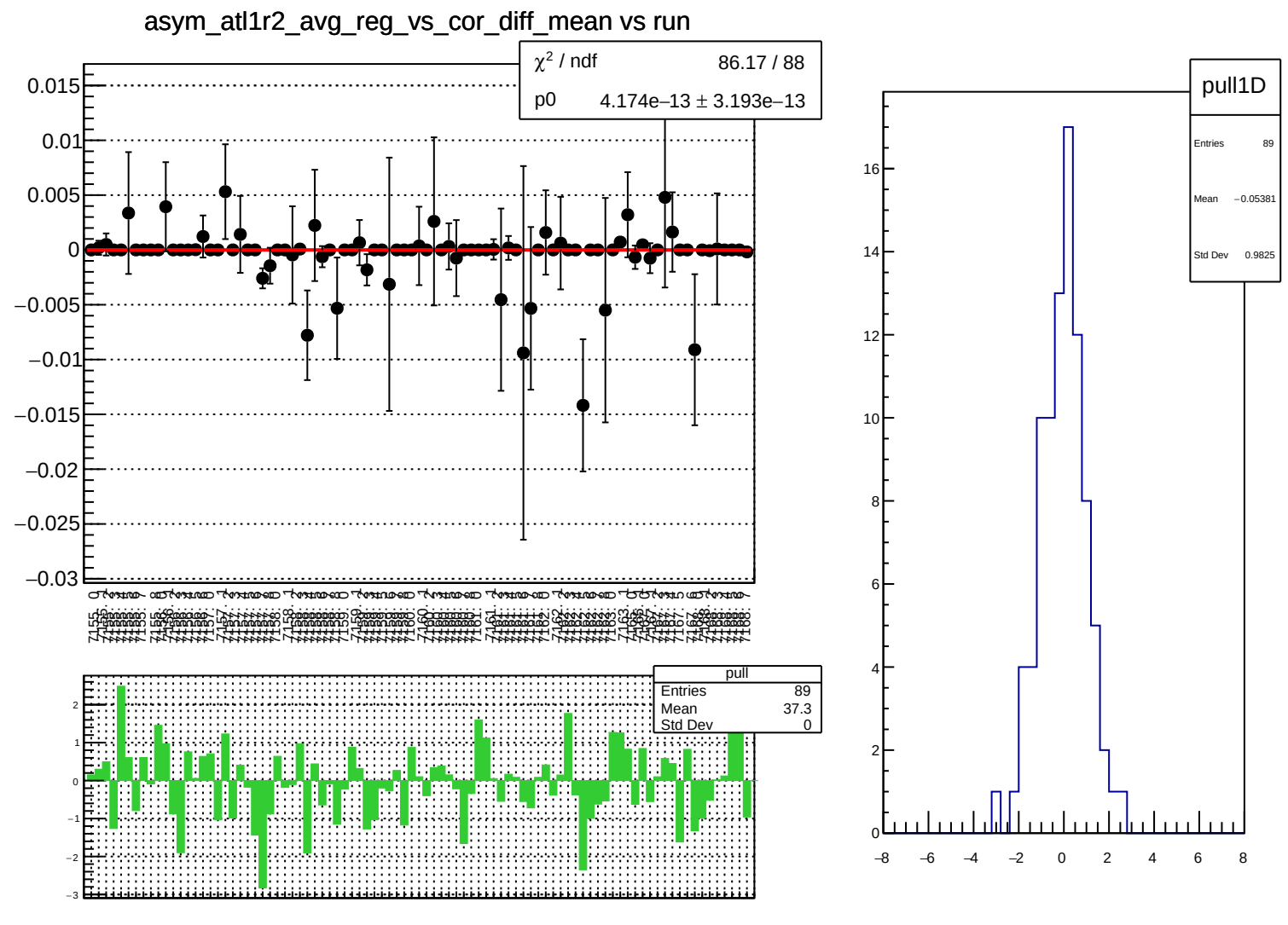

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.94 / 88
p0 −1671 ± 8905
pull
Entries 89
Mean −6.651
Std Dev 0
pull1D
Entries 89
Mean 0.02234
Std Dev 0.8734

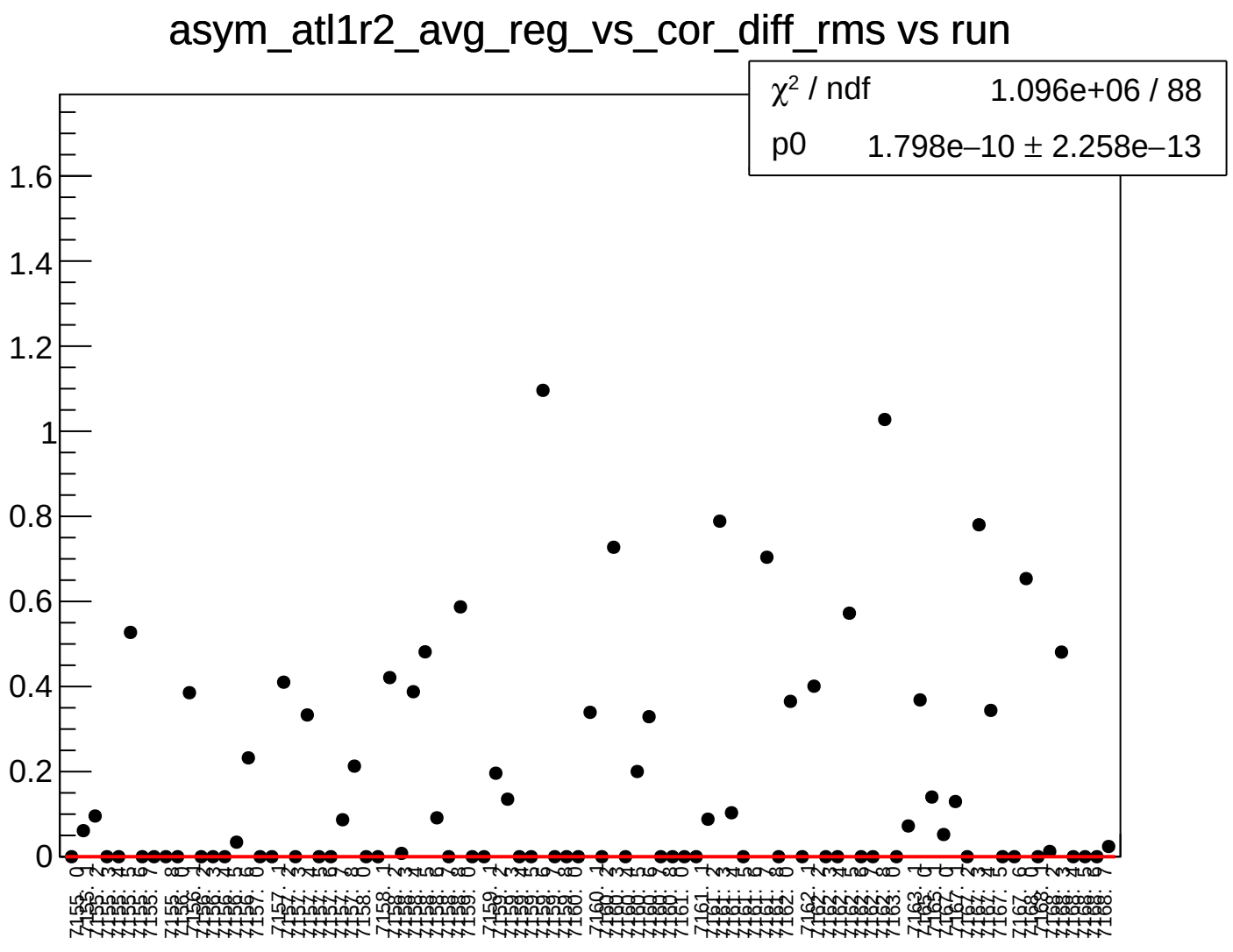

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9002 / 88
p0 8261 ± 6.297
10000
9500
9000
8500
8000
7500
7000

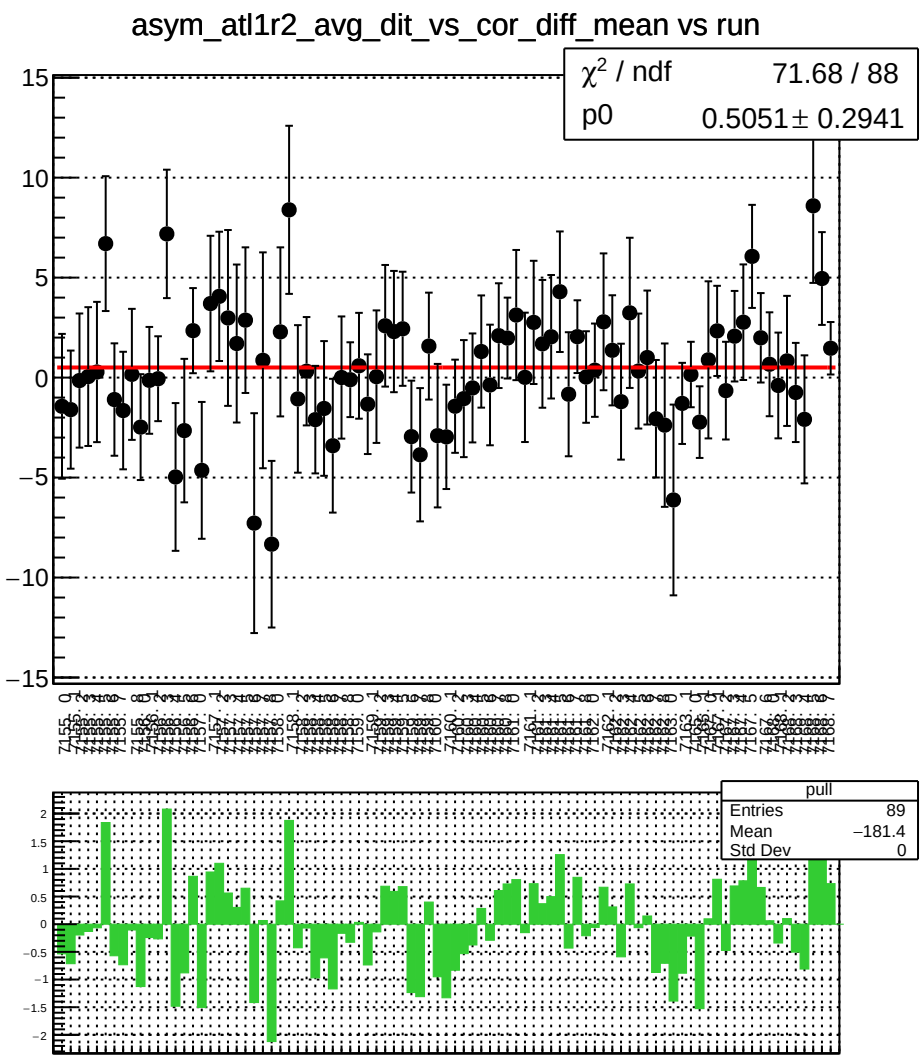

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 70.36 / 88
p0 331.9 ± 8929
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −39.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

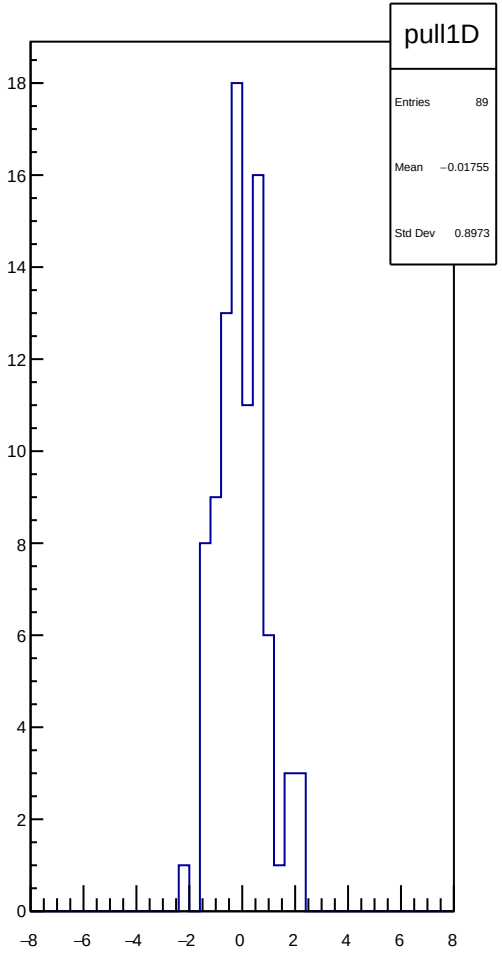

pull1D
Entries 89
Mean −0.01986
Std Dev 0.8889
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

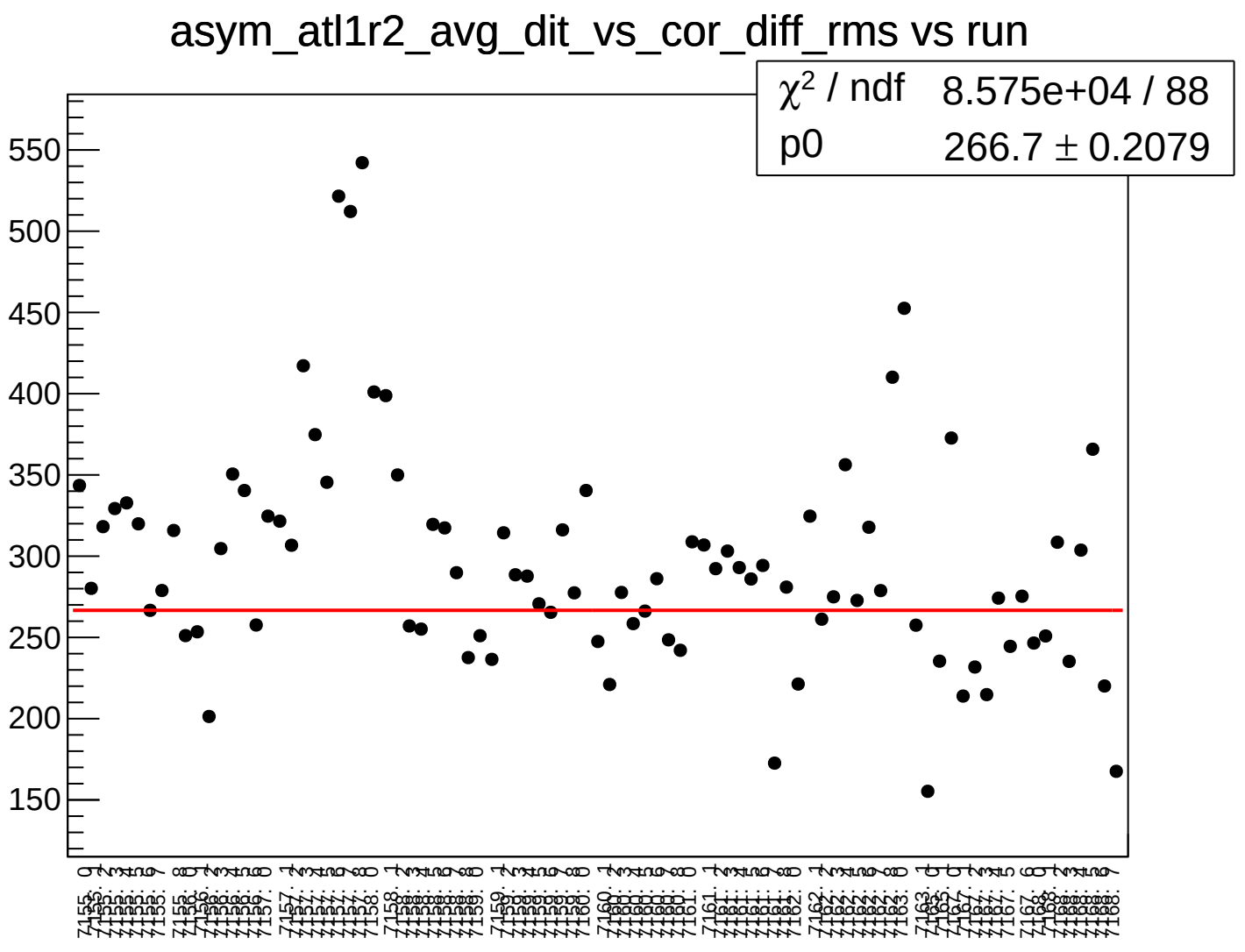

asym_atl1r2_avg_rms vs run
χ^2 / ndf 8447 / 88
p0 8285 ± 6.314
10000
9500
9000
8500
8000
7500
7000

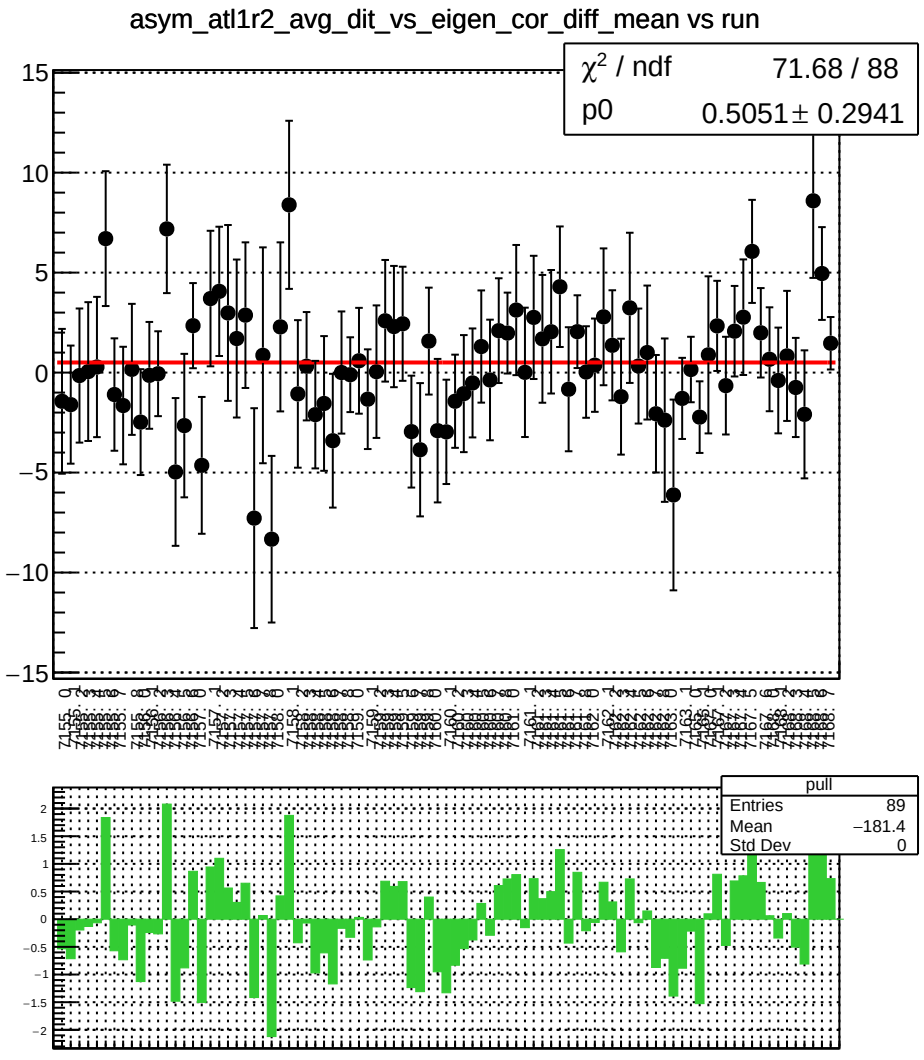

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.17 / 88
p0 4.174e−13 ± 3.193e−13
pull
Entries 89
Mean 37.3
Std Dev 0
pull1D
Entries 89
Mean −0.05381
Std Dev 0.9825

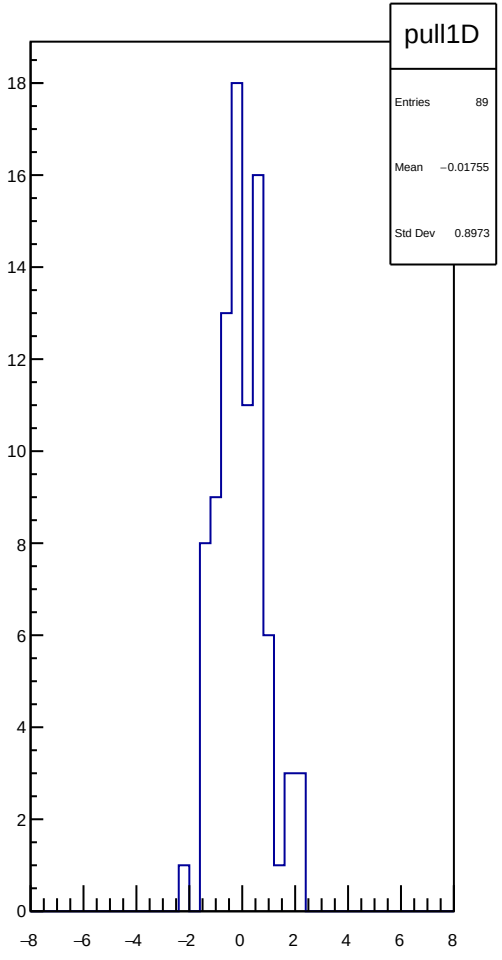

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.096e+06 / 88
p0 1.798e−10 ± 2.258e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

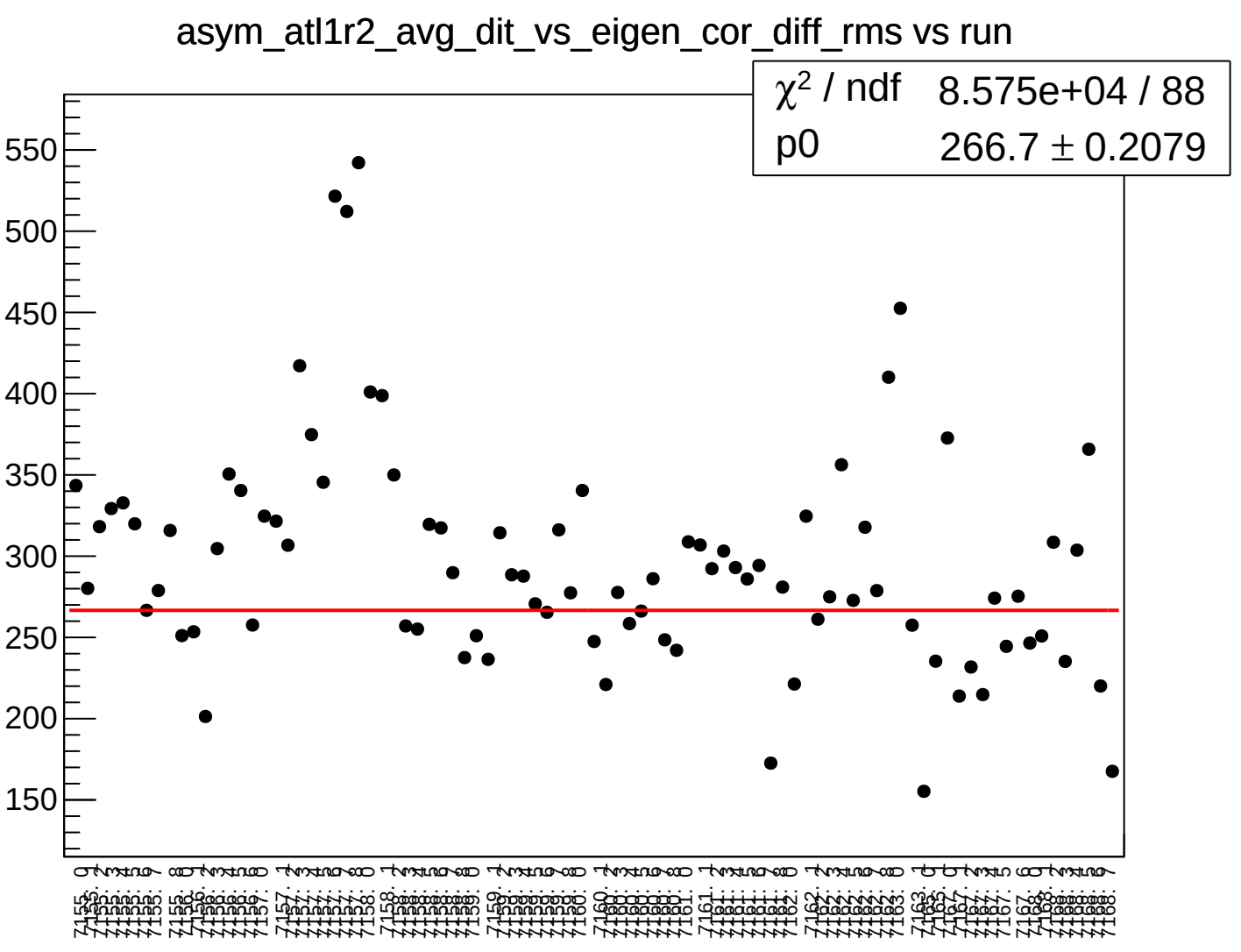

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.68 / 88
p0 0.5051 ± 0.2941
pull
Entries 89
Mean −181.4
Std Dev 0

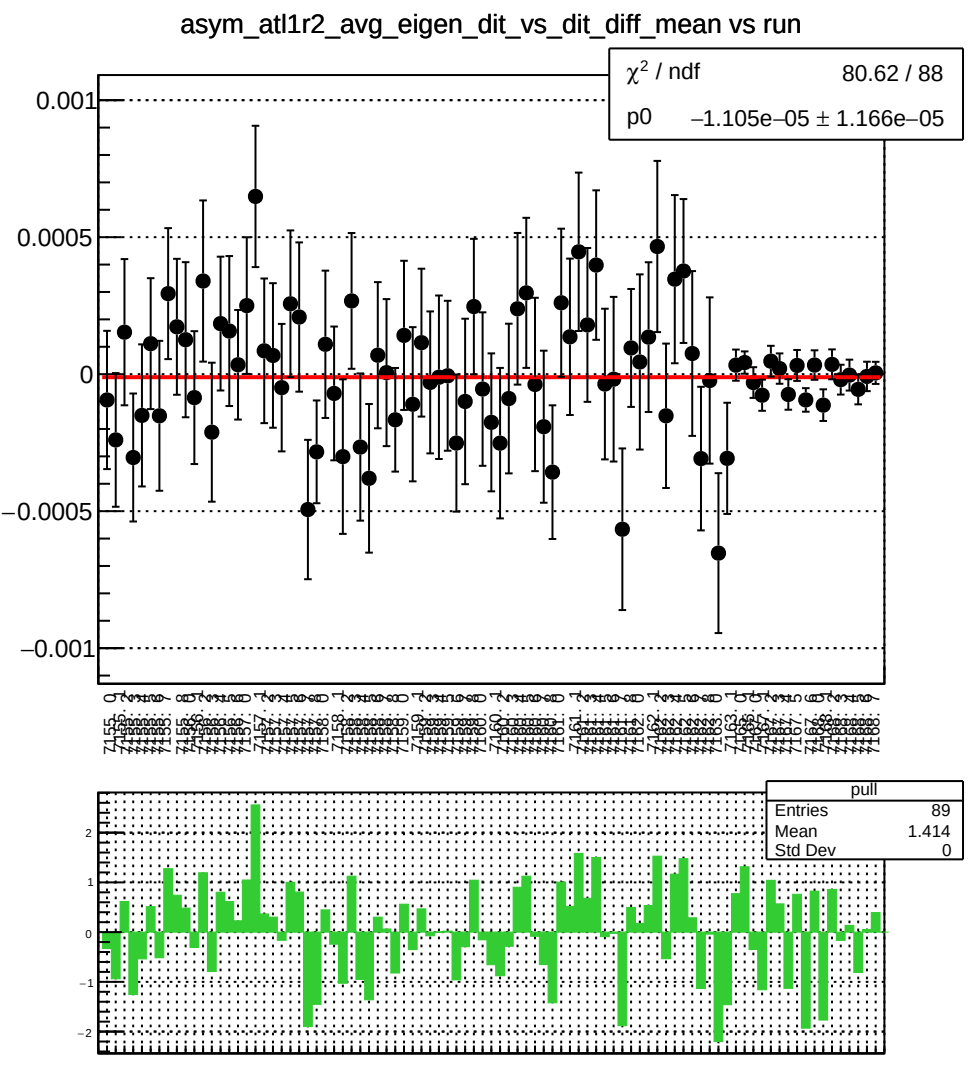

pull1D
Entries 89
Mean −0.01755
Std Dev 0.8973

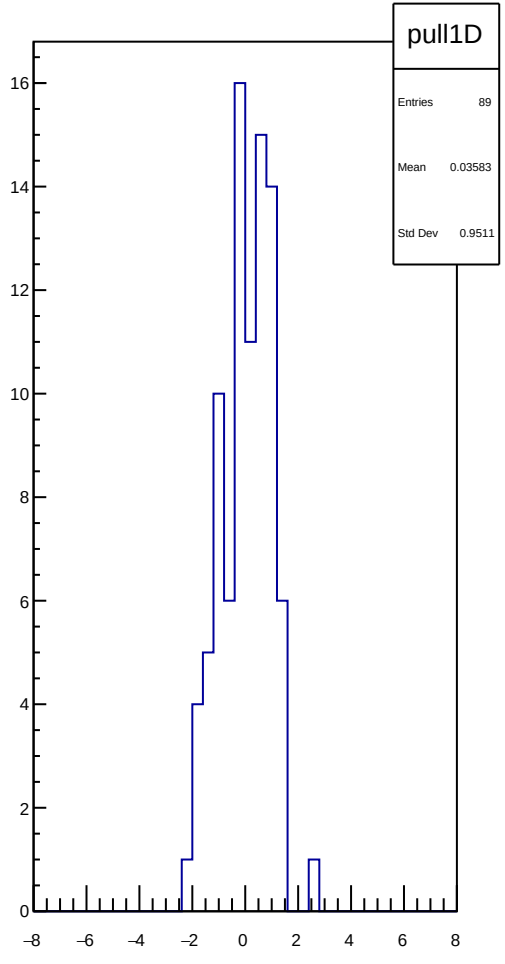

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.575e+04 / 88
p0 266.7 ± 0.2079
550
500
450
400
350
300
250
200
150

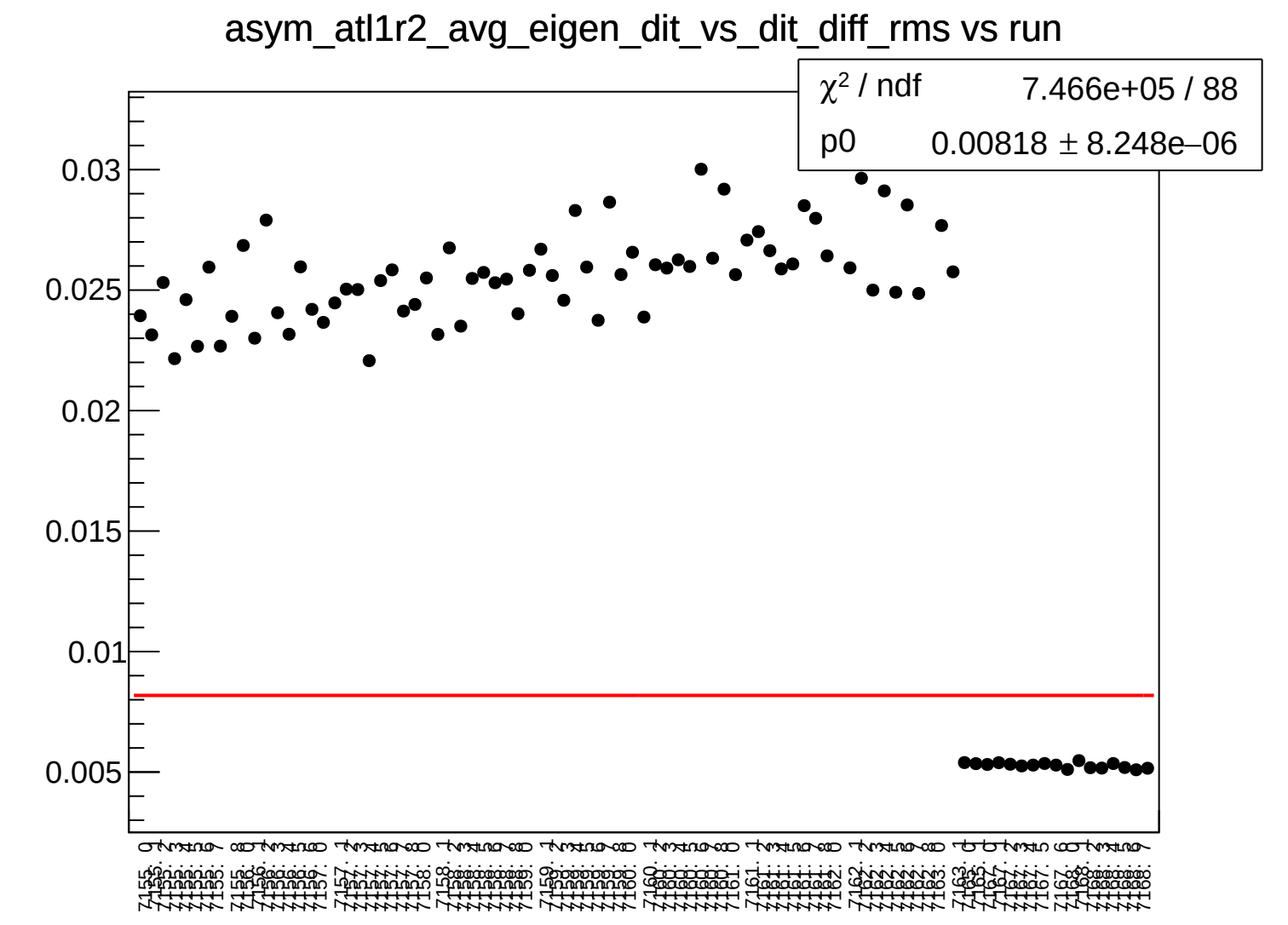

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.68 / 88
p0 0.5051± 0.2941
pull
Entries 89
Mean −181.4
Std Dev 0

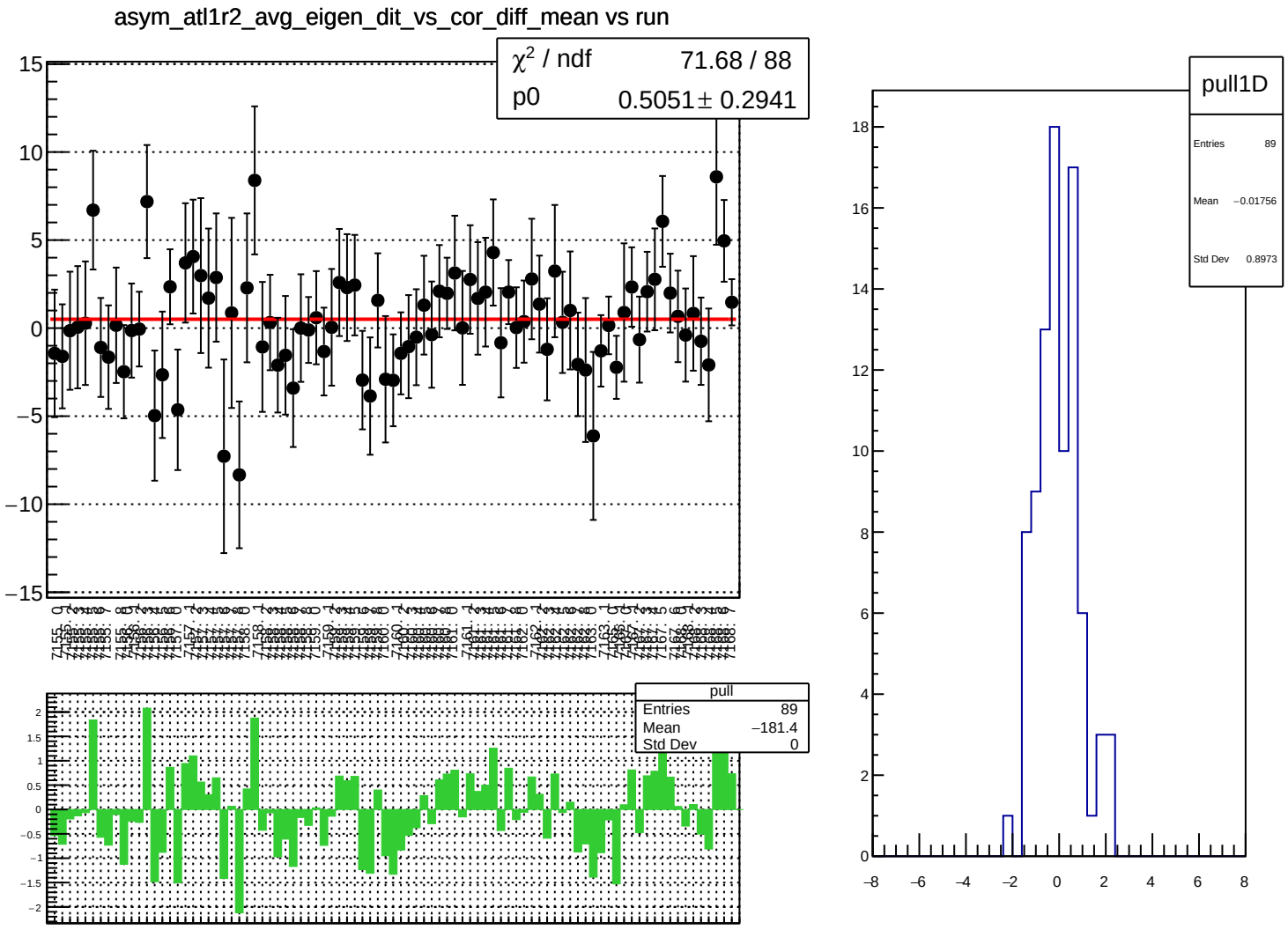

pull1D
Entries 89
Mean −0.01755
Std Dev 0.8973

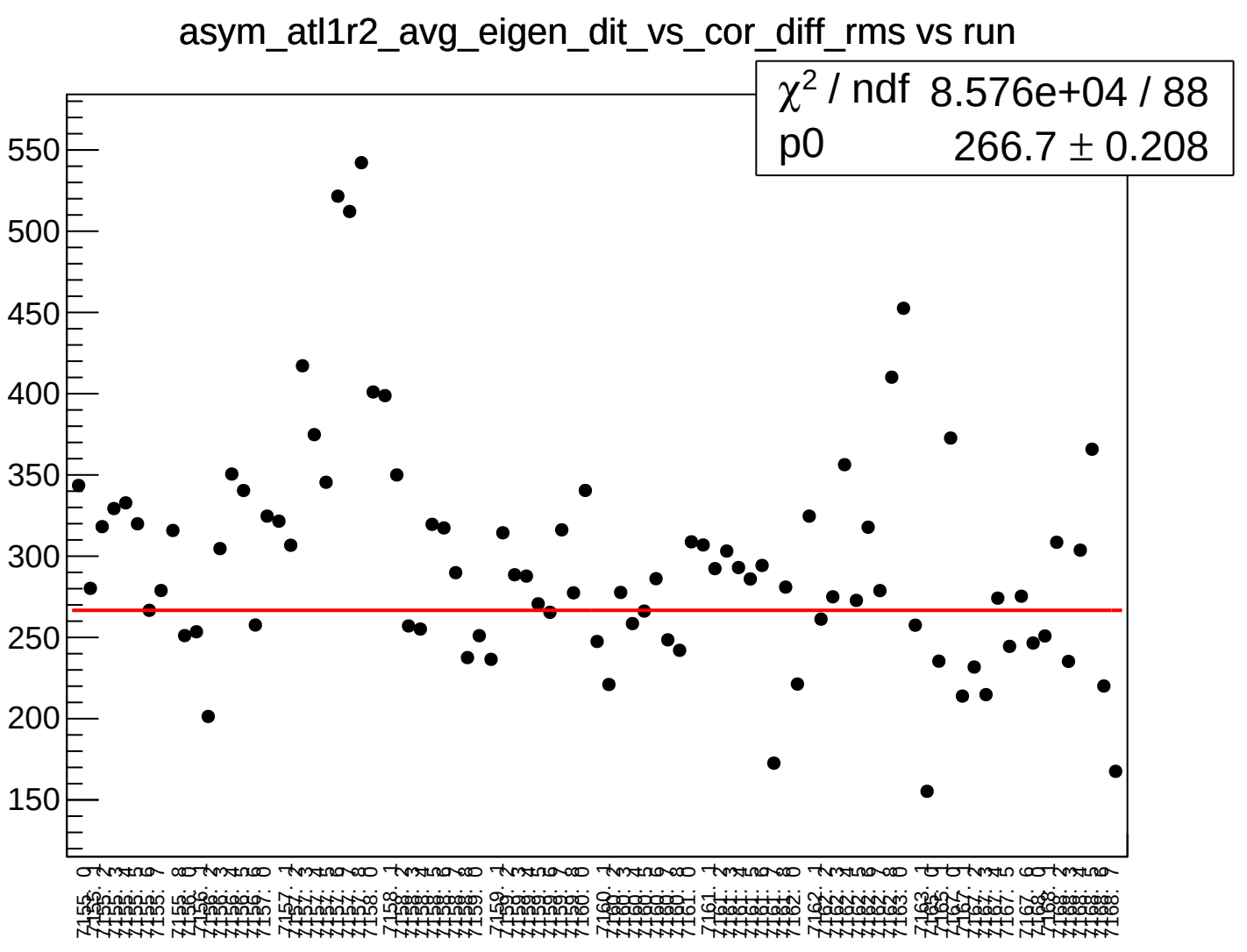

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.575e+04 / 88
p0 266.7 ± 0.2079
550
500
450
400
350
300
250
200
150

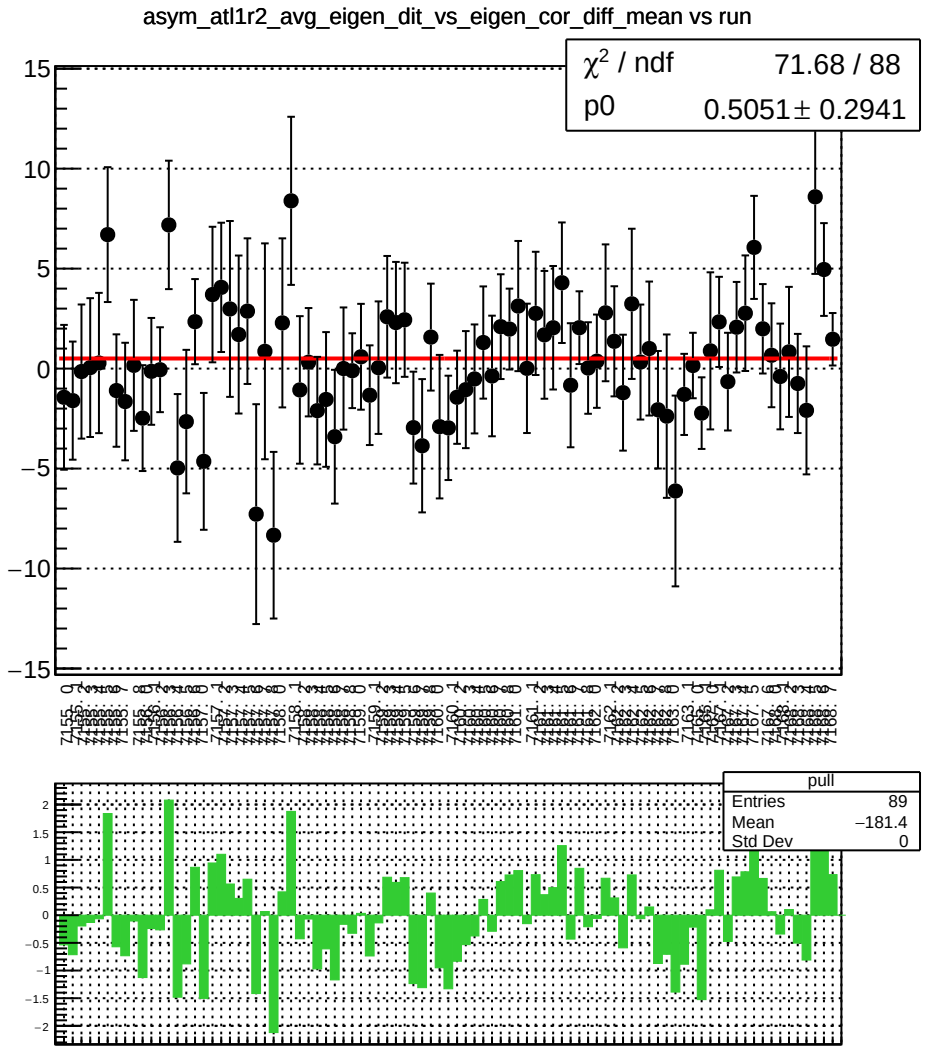

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.62 / 88
p0 −1.105e−05 ± 1.166e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 1.414
Std Dev 0
2
1
0
−1
−2

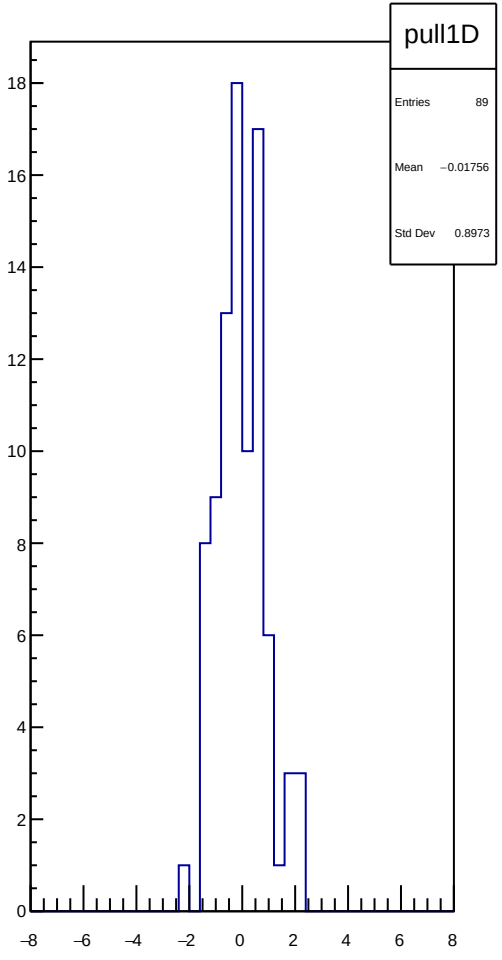

pull1D
Entries 89
Mean 0.03583
Std Dev 0.9511
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

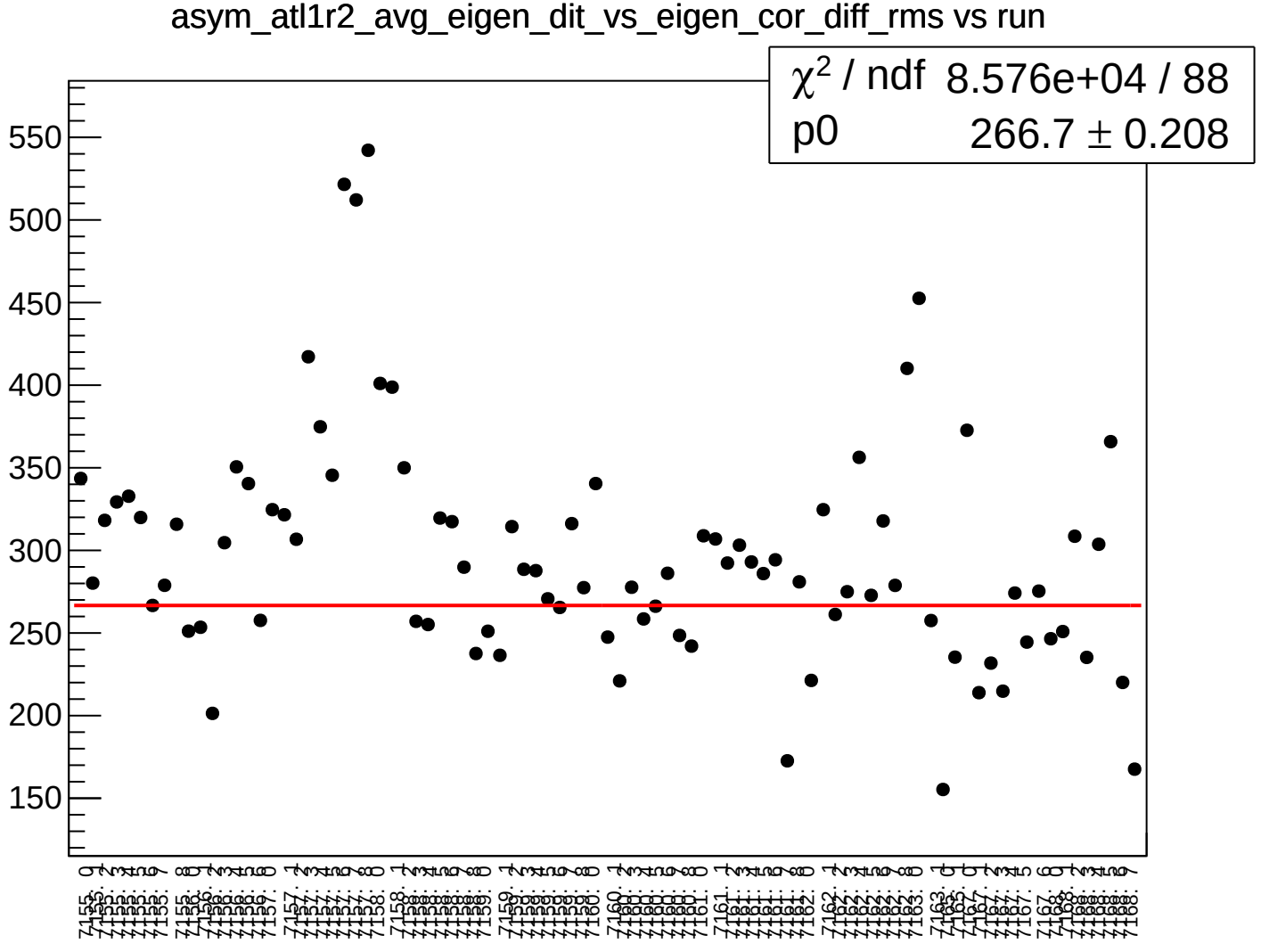

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.466e+05 / 88
p0 0.00818 ± 8.248e−06
0.03
0.025
0.02
0.015
0.01
0.005

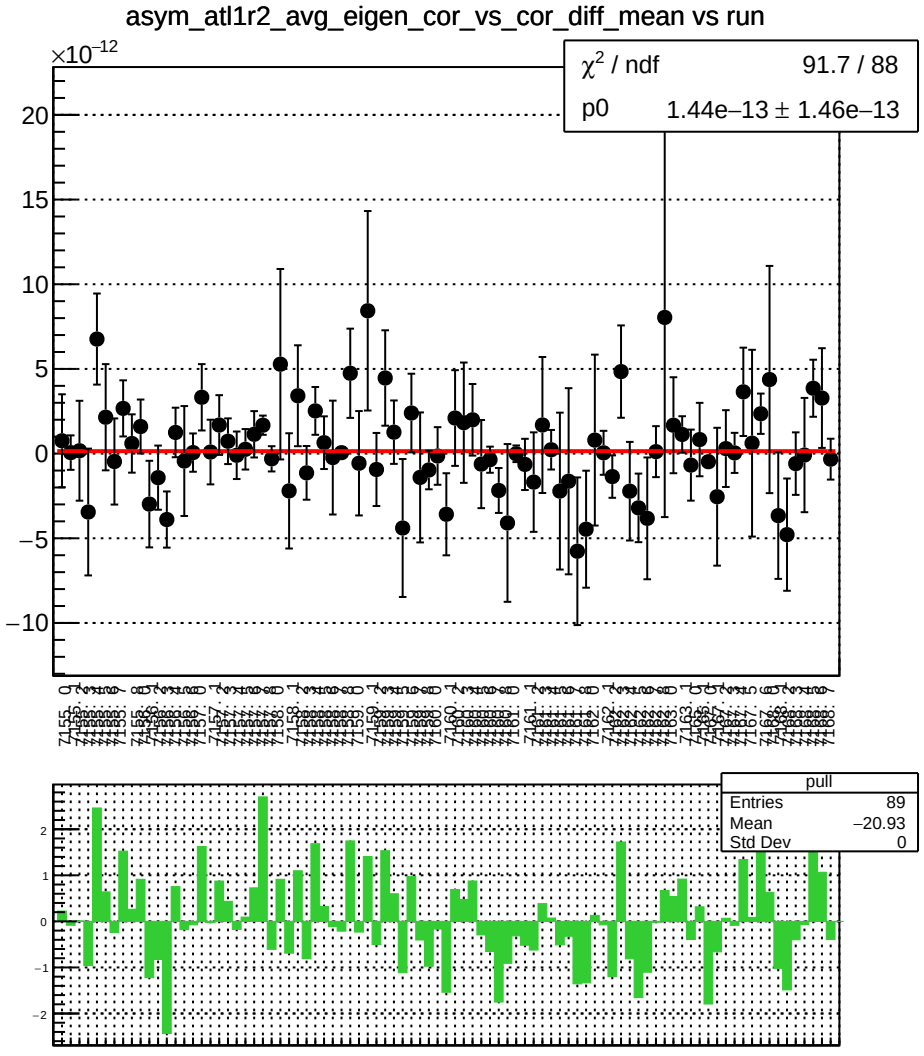

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.68 / 88
p0 0.5051± 0.2941
pull
Entries 89
Mean −181.4
Std Dev 0
pull1D
Entries 89
Mean −0.01756
Std Dev 0.8973

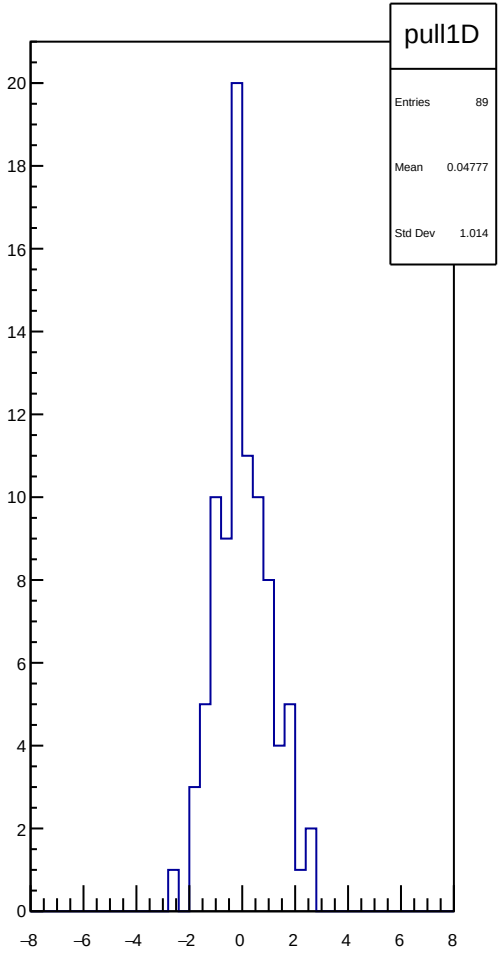

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 88
p0 266.7 ± 0.208
550
500
450
400
350
300
250
200
150

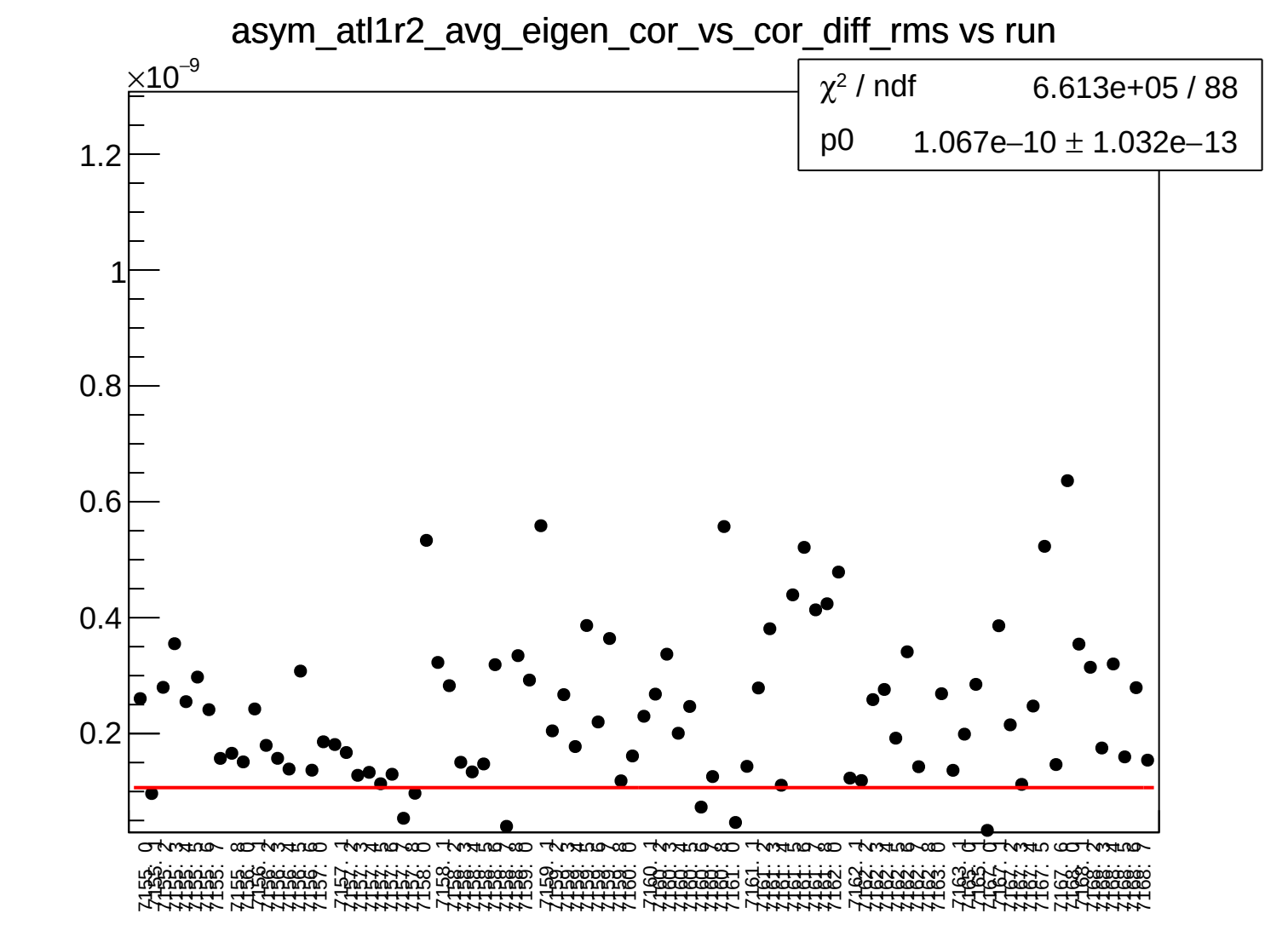

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.68 / 88
p0 0.5051± 0.2941
pull
Entries 89
Mean −181.4
Std Dev 0

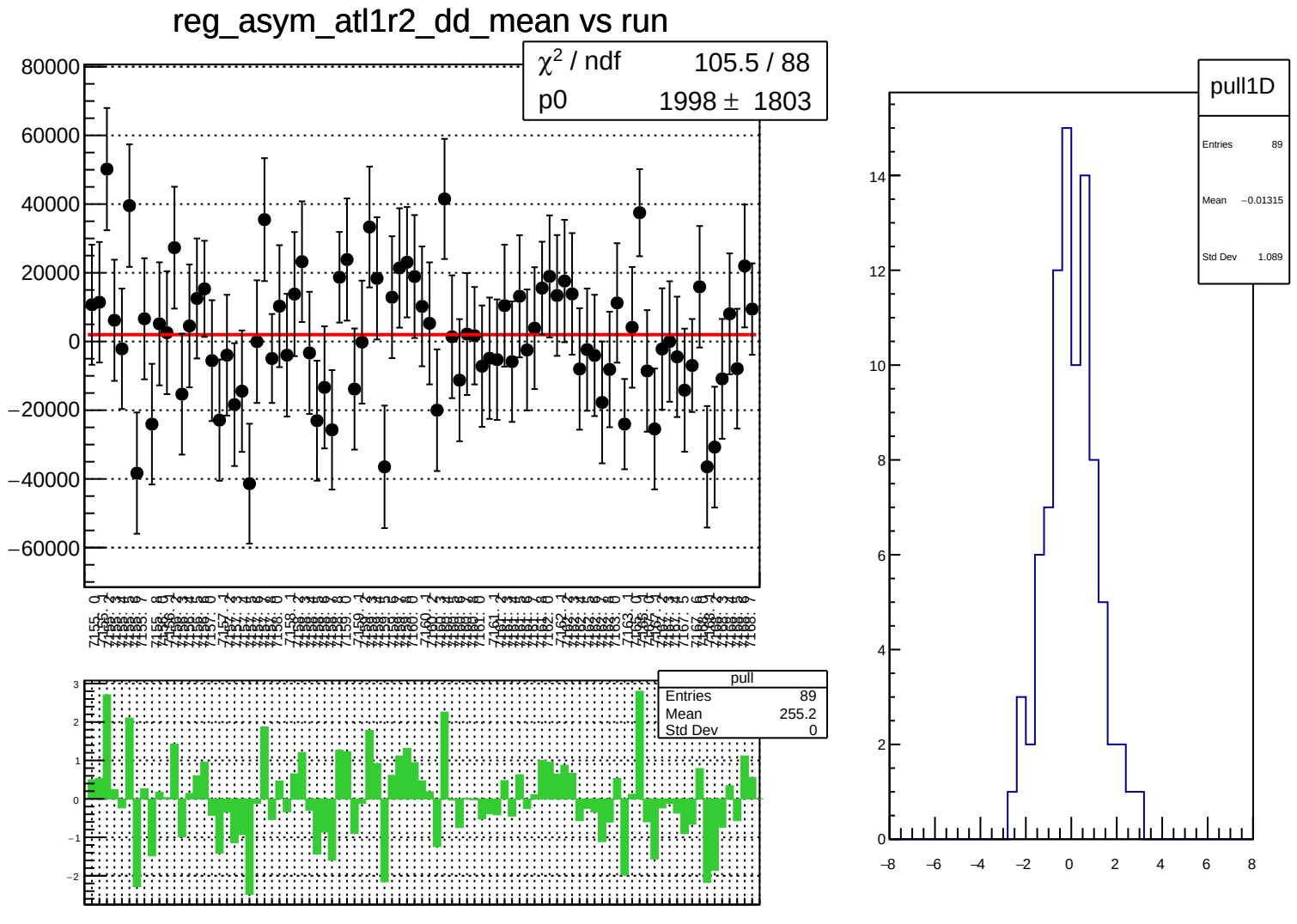

pull1D
Entries 89
Mean −0.01756
Std Dev 0.8973

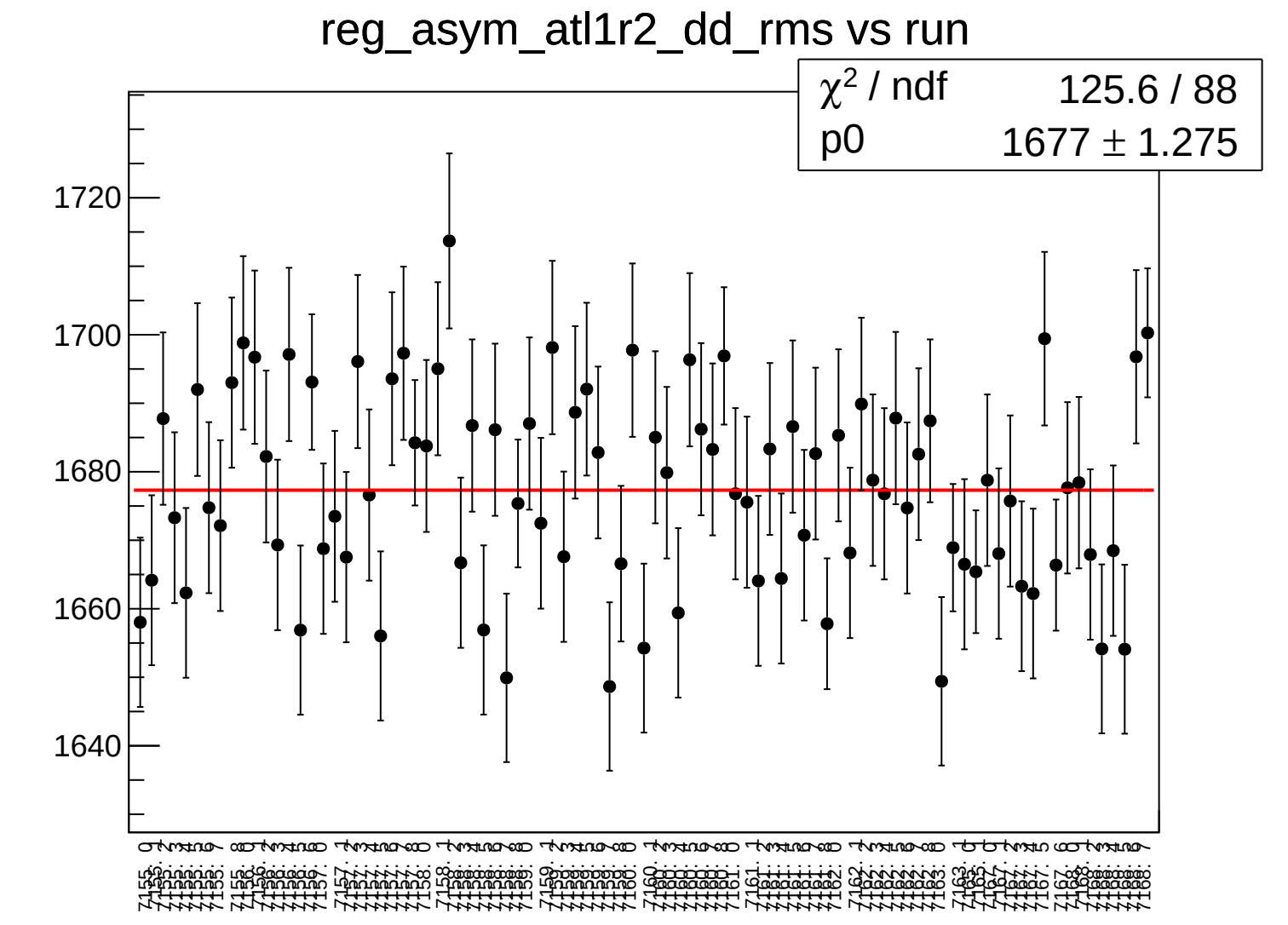

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 88
p0 266.7 ± 0.208
550
500
450
400
350
300
250
200
150

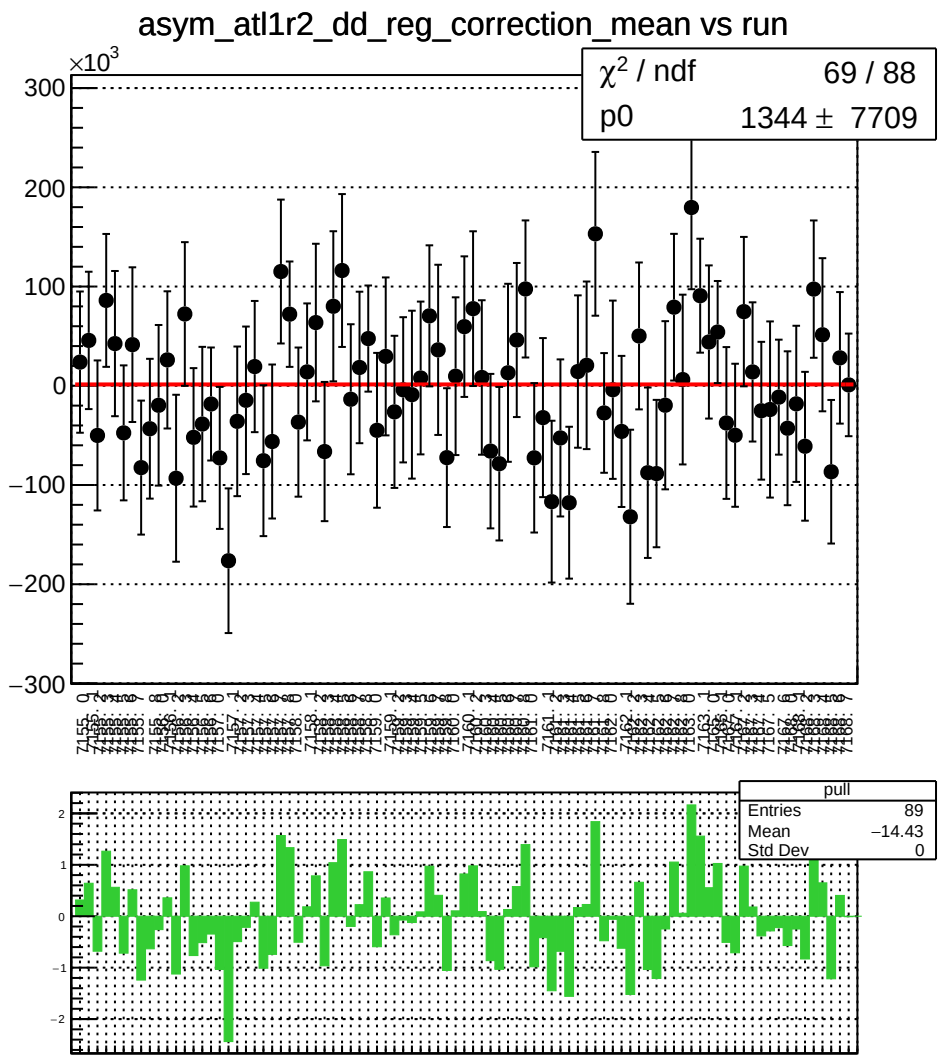

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.7 / 88
p0 1.44e−13 ± 1.46e−13
pull
Entries 89
Mean −20.93
Std Dev 0

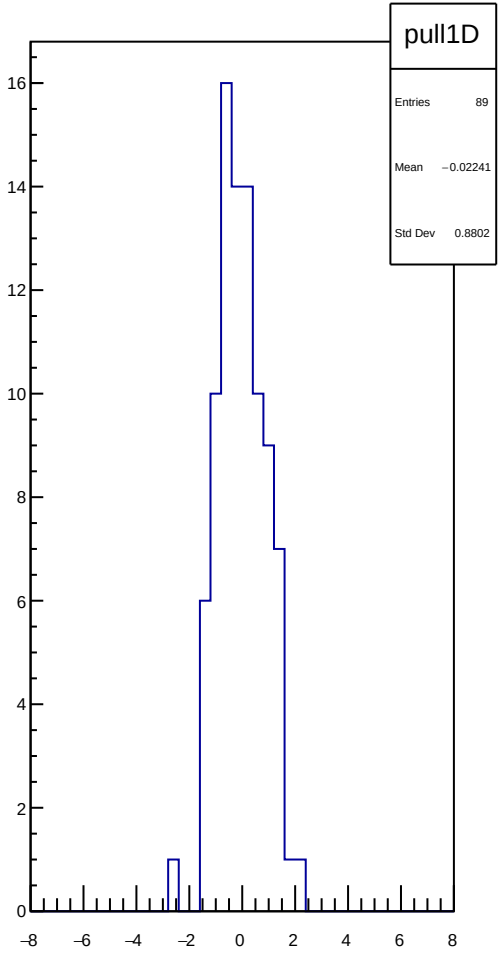

pull1D
Entries 89
Mean 0.04777
Std Dev 1.014

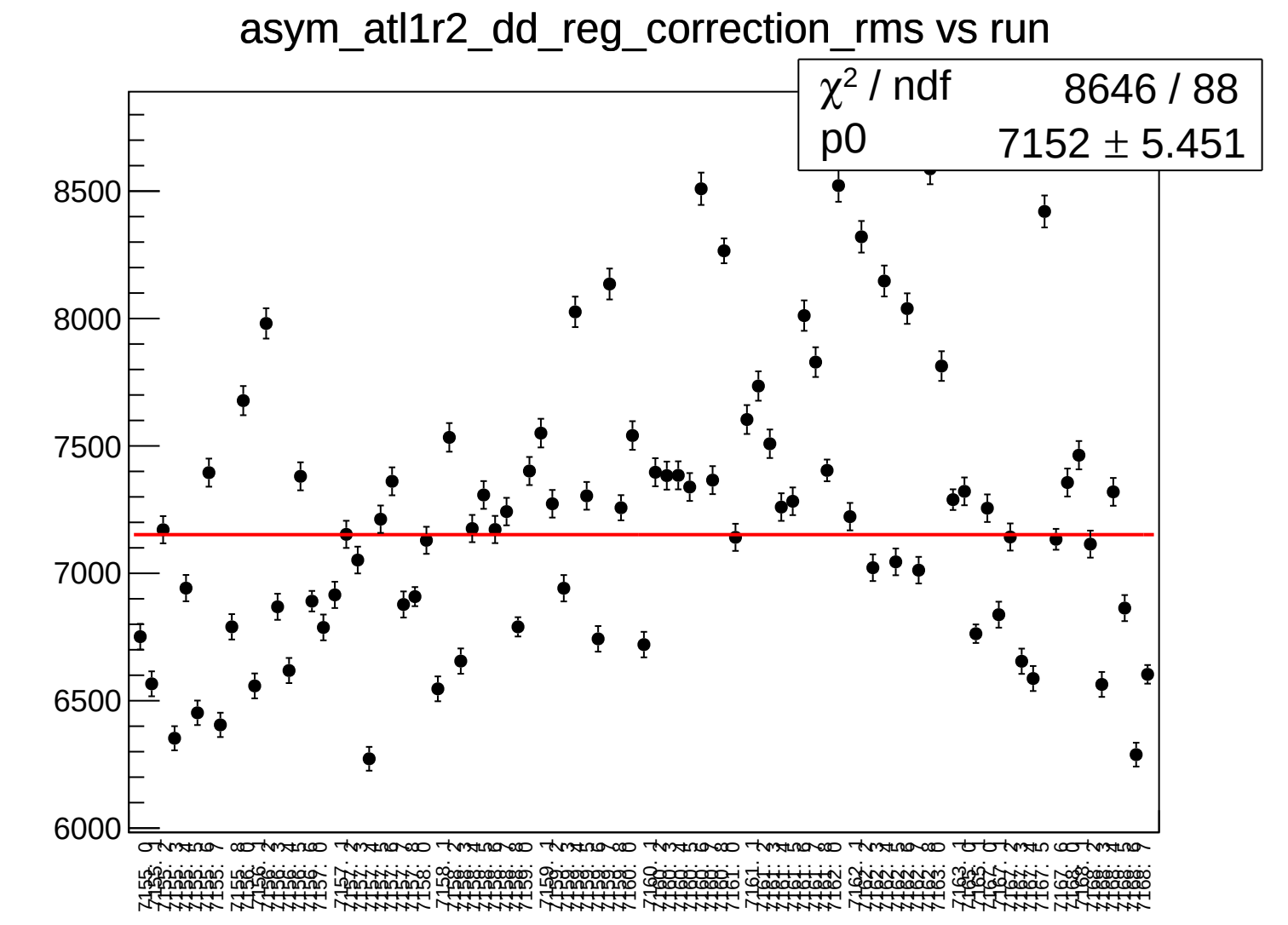

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.613e+05 / 88
p0 1.067e−10 ± 1.032e−13
1.2
1
0.8
0.6
0.4
0.2

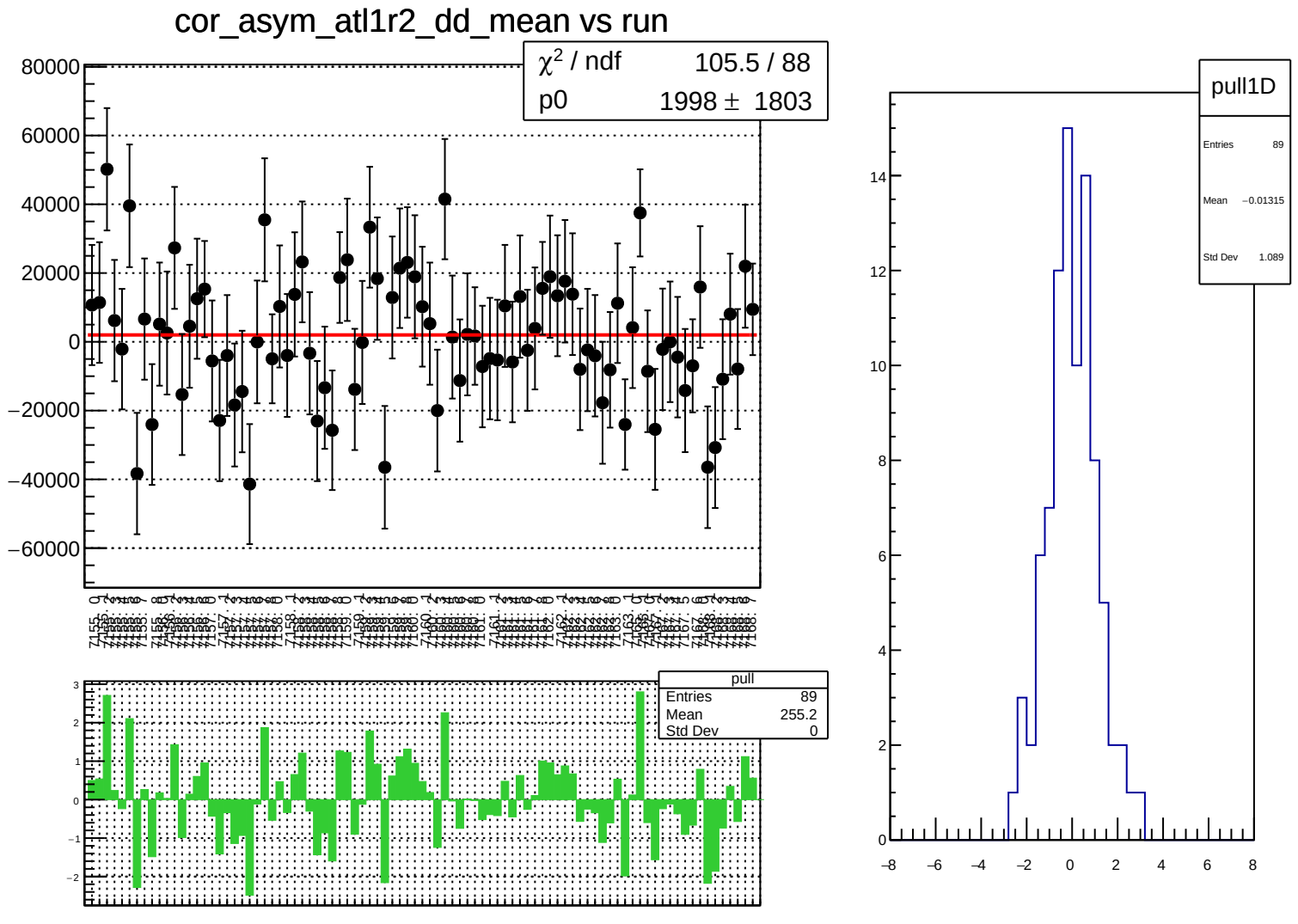

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 105.5 / 88
p0 1998 ± 1803
pull
Entries 89
Mean 255.2
Std Dev 0
pull1D
Entries 89
Mean −0.01315
Std Dev 1.089

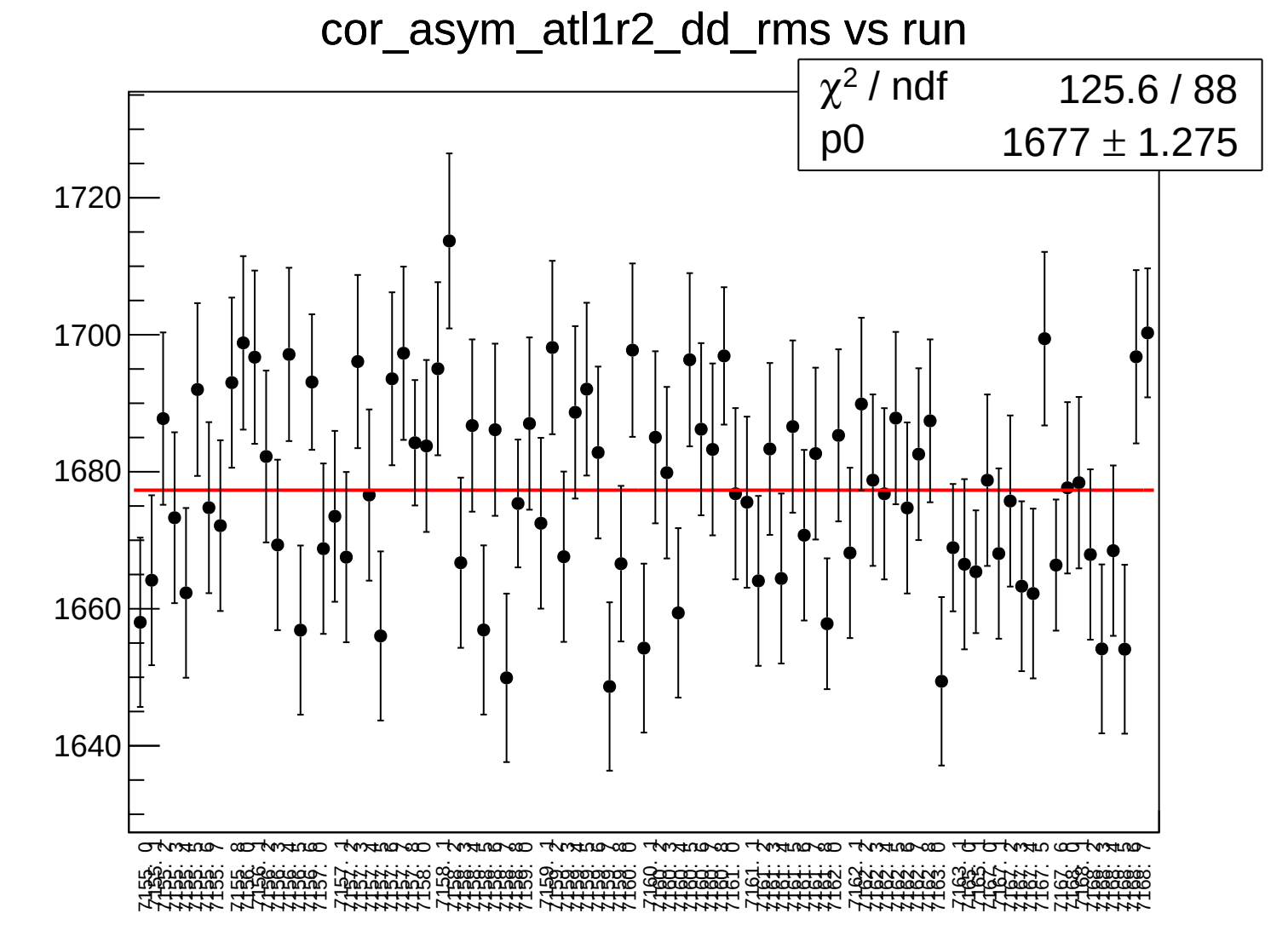

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 125.6 / 88
p0 1677 ± 1.275
1720
1700
1680
1660
1640

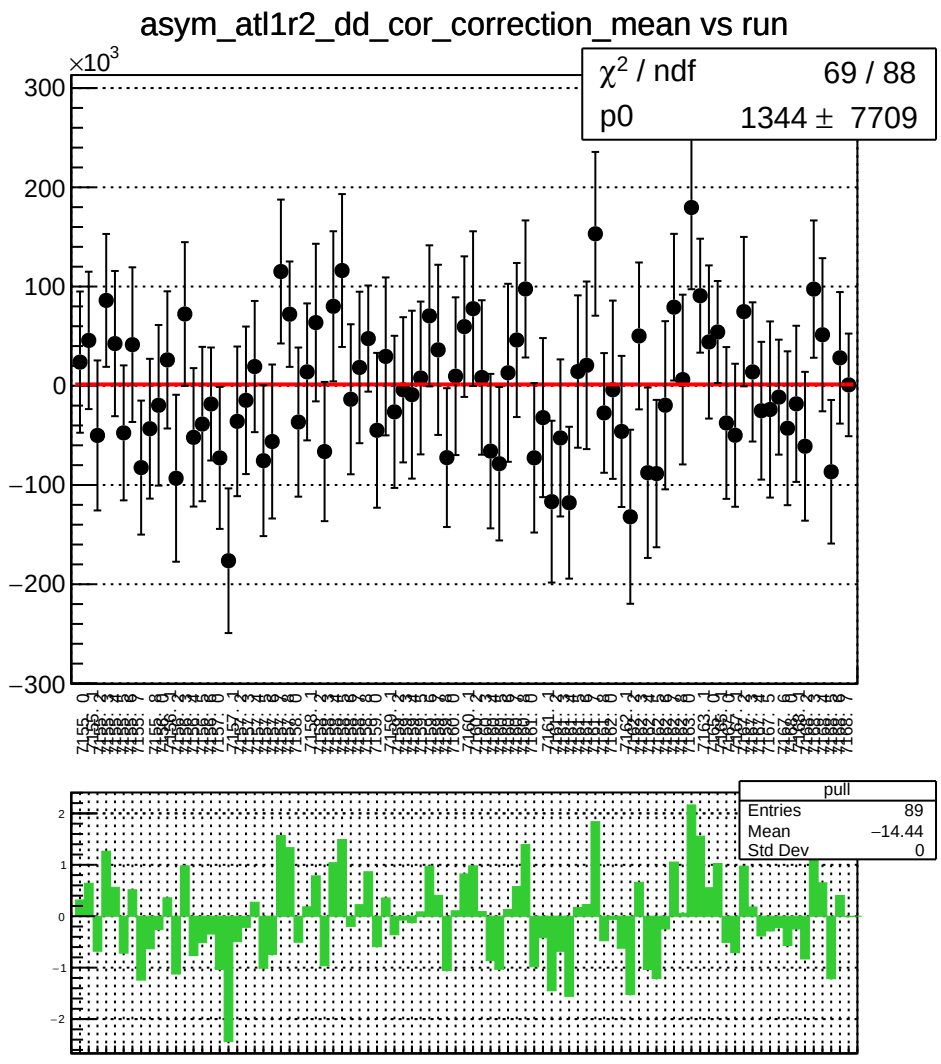

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69 / 88
p0 1344 ± 7709
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.43
Std Dev 0
2
1
0
−1
−2

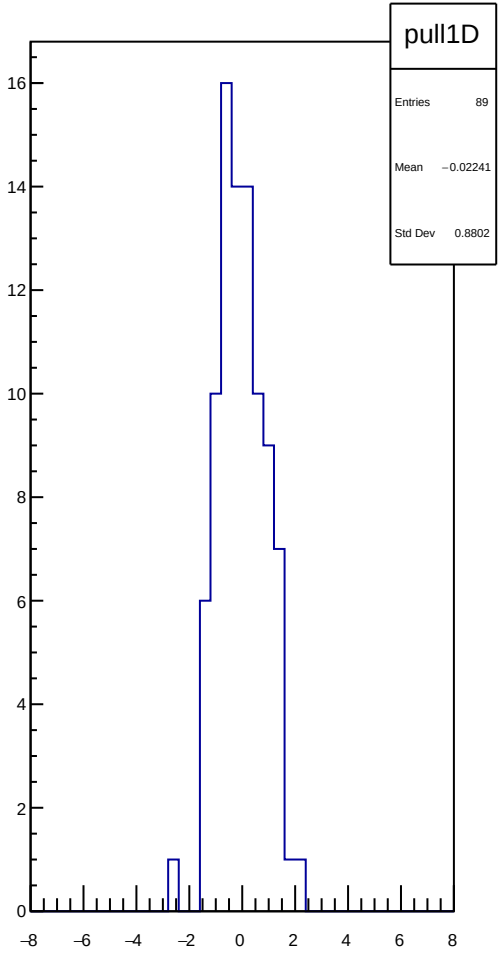

pull1D
Entries 89
Mean −0.02241
Std Dev 0.8802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

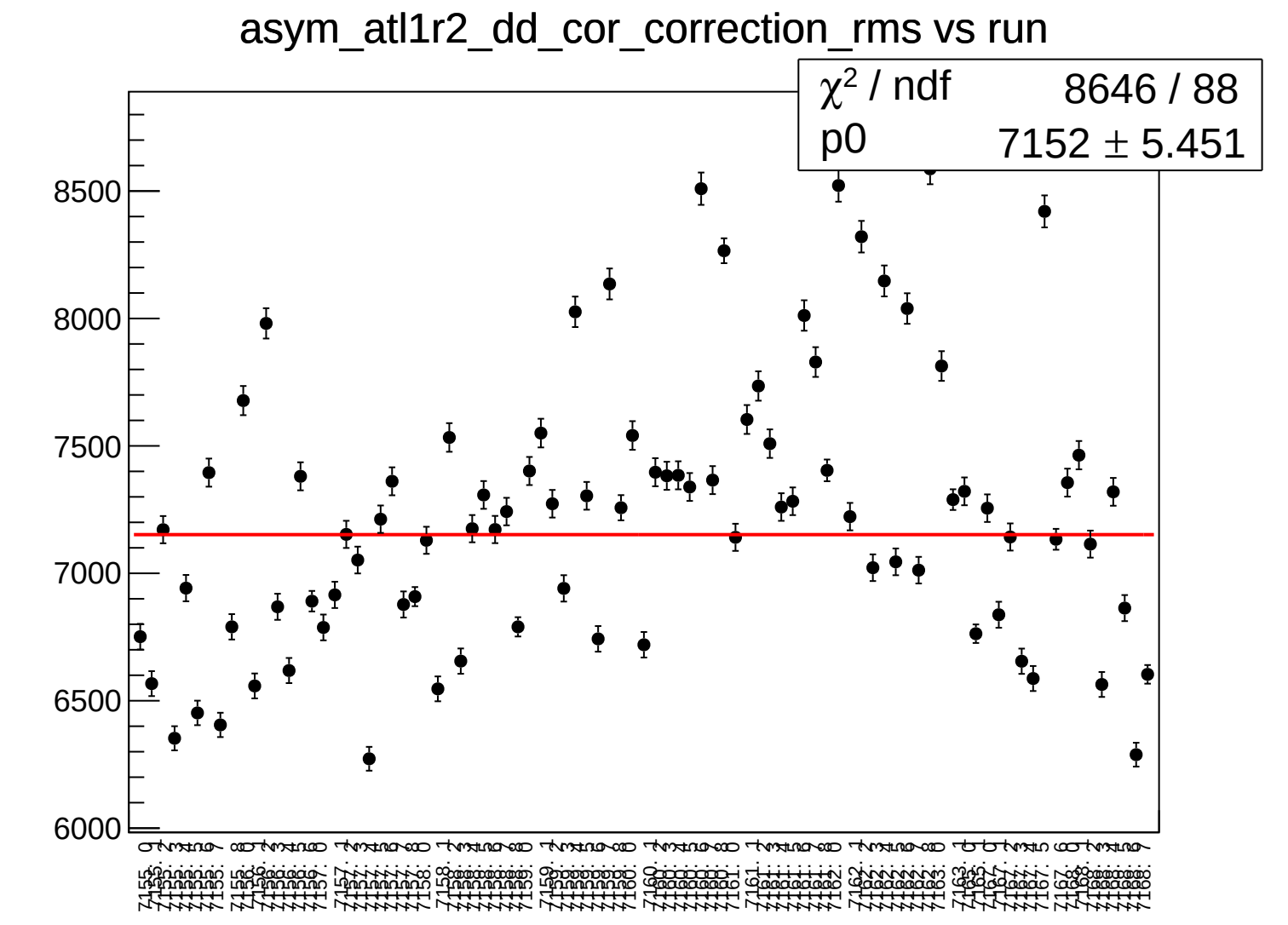

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 8646 / 88
p0 7152 ± 5.451
8500
8000
7500
7000
6500
6000

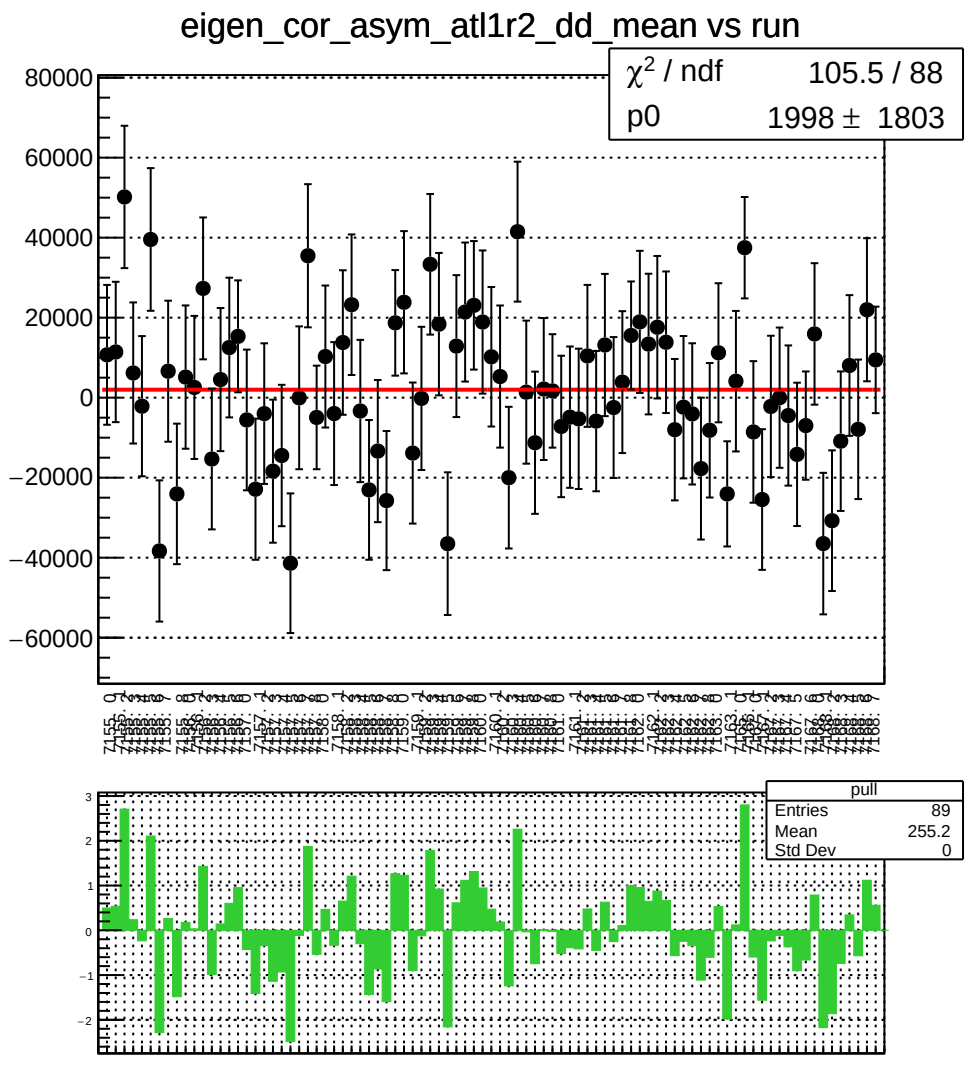

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 105.5 / 88
p0 1998 ± 1803
pull
Entries 89
Mean 255.2
Std Dev 0
pull1D
Entries 89
Mean −0.01315
Std Dev 1.089

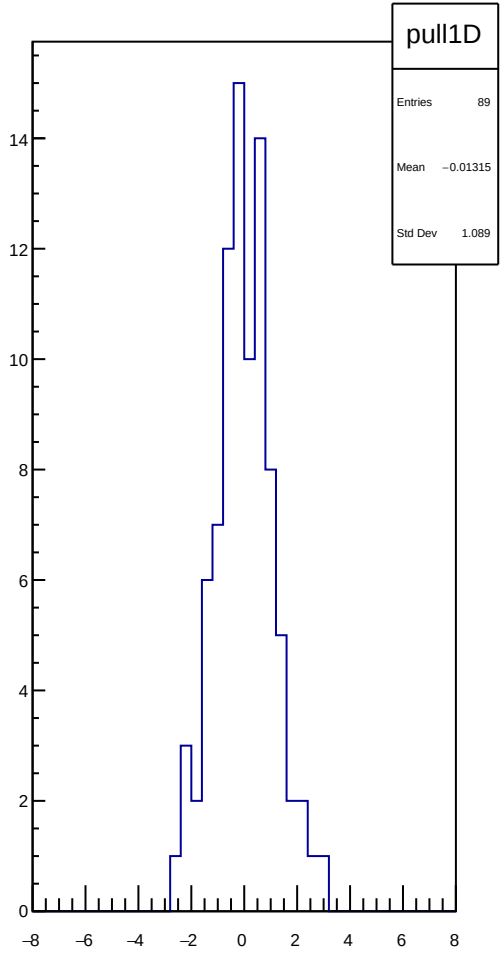

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 125.6 / 88
p0 1677 ± 1.275
1720
1700
1680
1660
1640

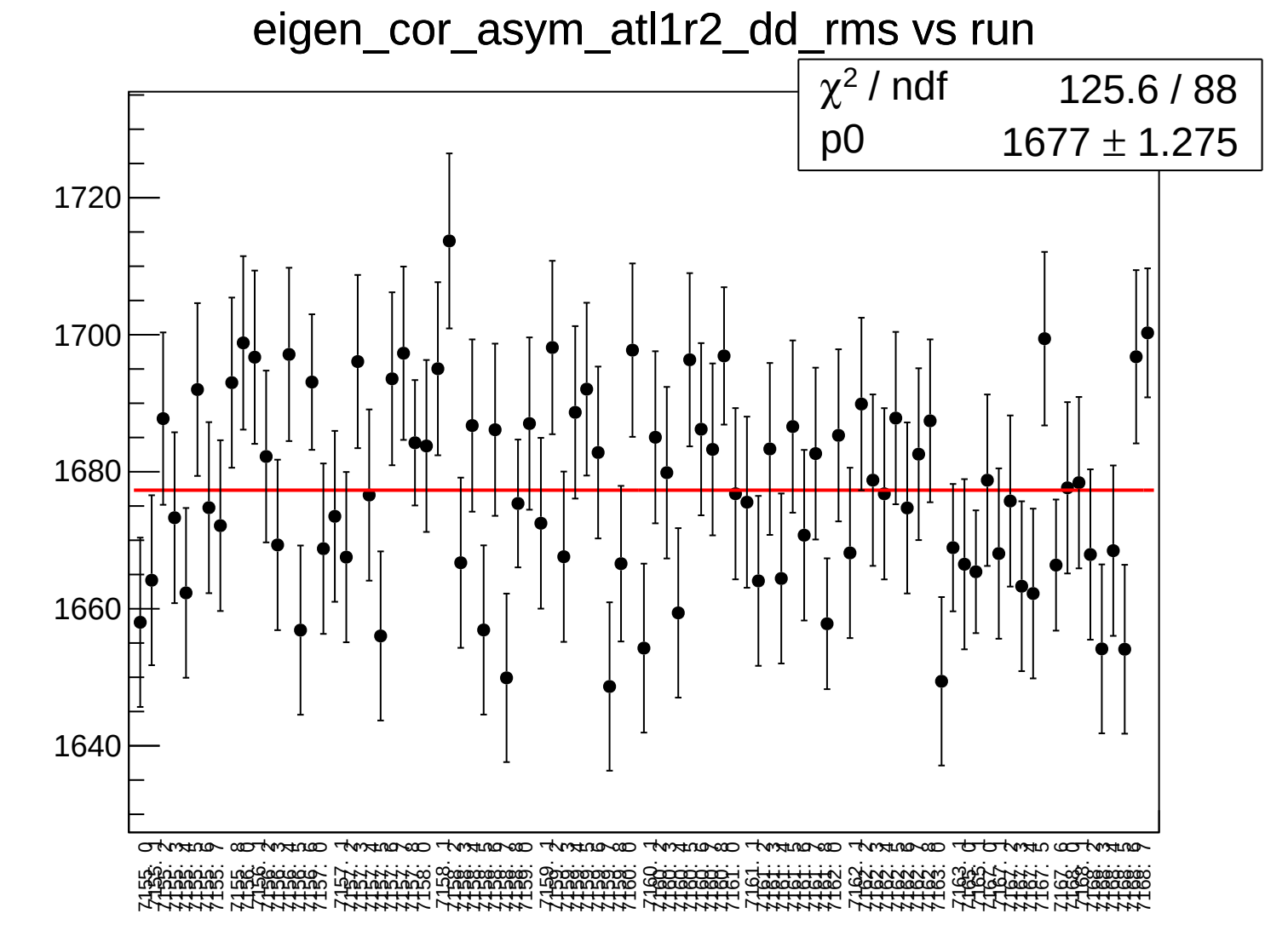

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69 / 88
p0 1344 ± 7709
pull
Entries 89
Mean −14.44
Std Dev 0

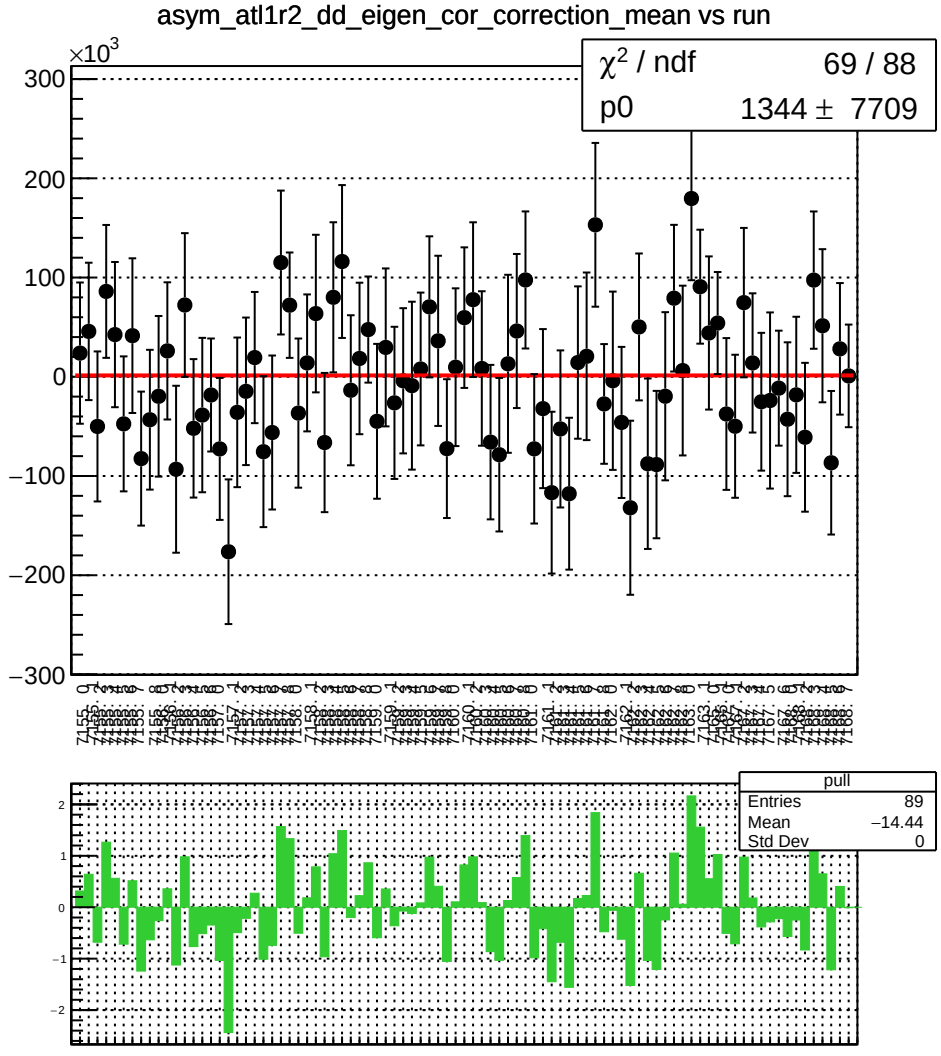

pull1D
Entries 89
Mean −0.02241
Std Dev 0.8802

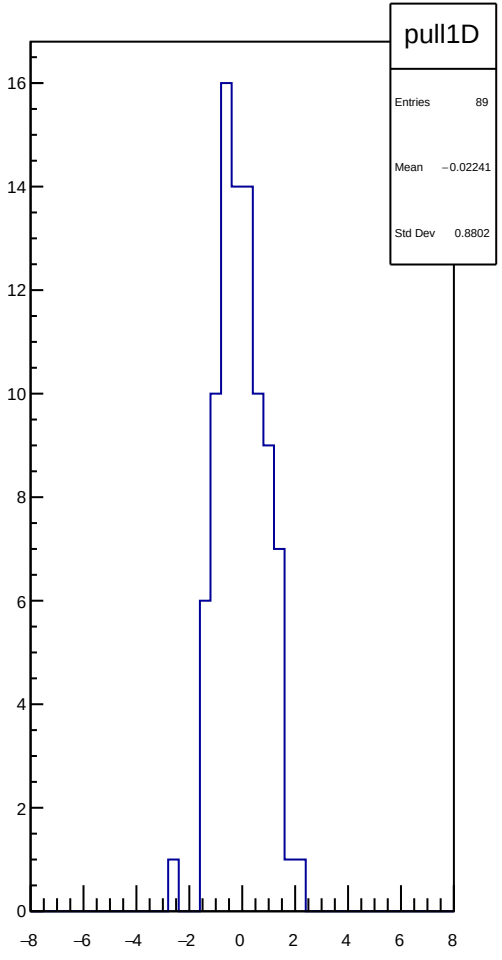

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 8646 / 88
p0 7152 ± 5.451
8500
8000
7500
7000
6500
6000

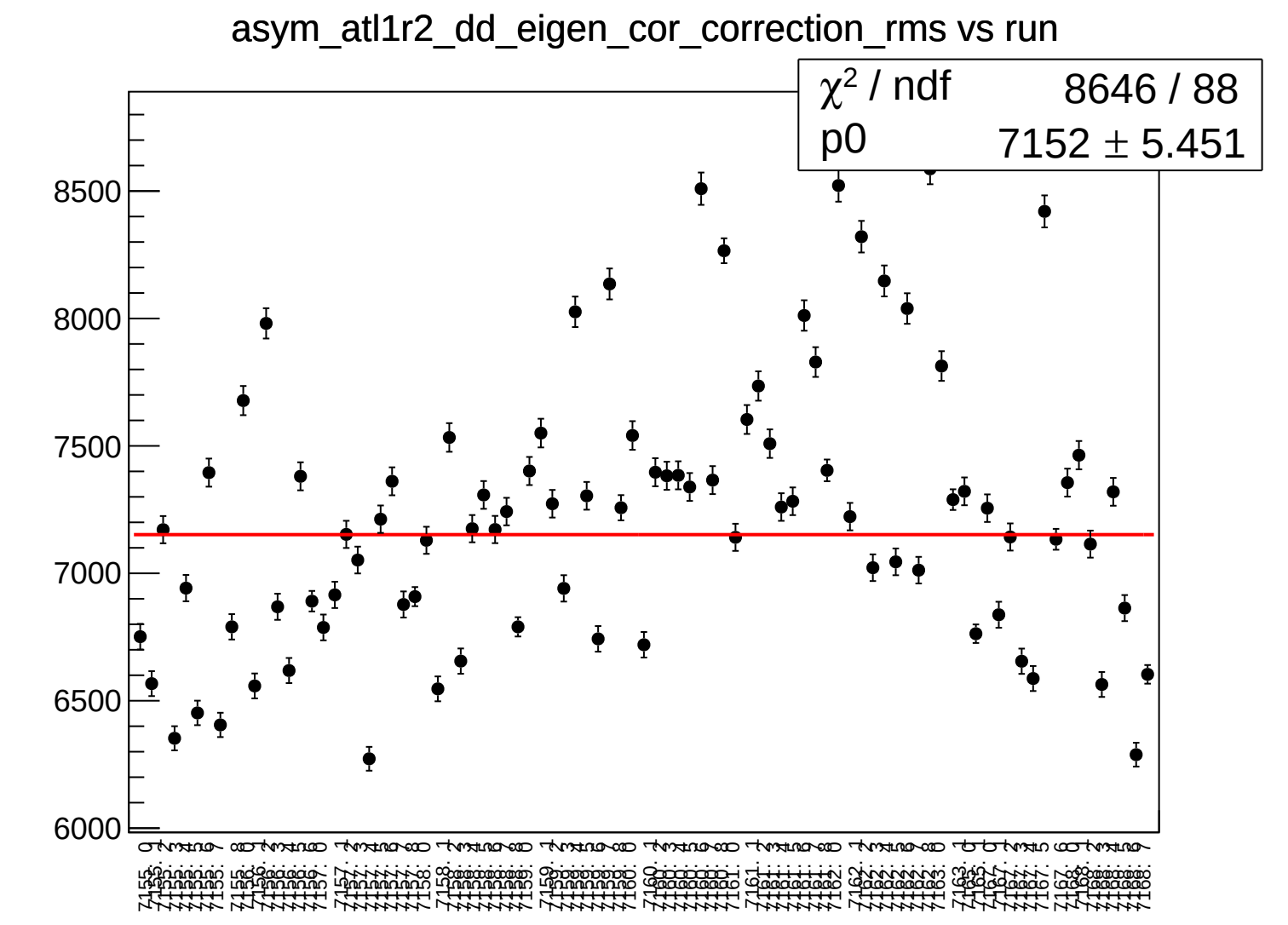

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 105.5 / 88
p0 1998 ± 1803
pull
Entries 89
Mean 255.2
Std Dev 0

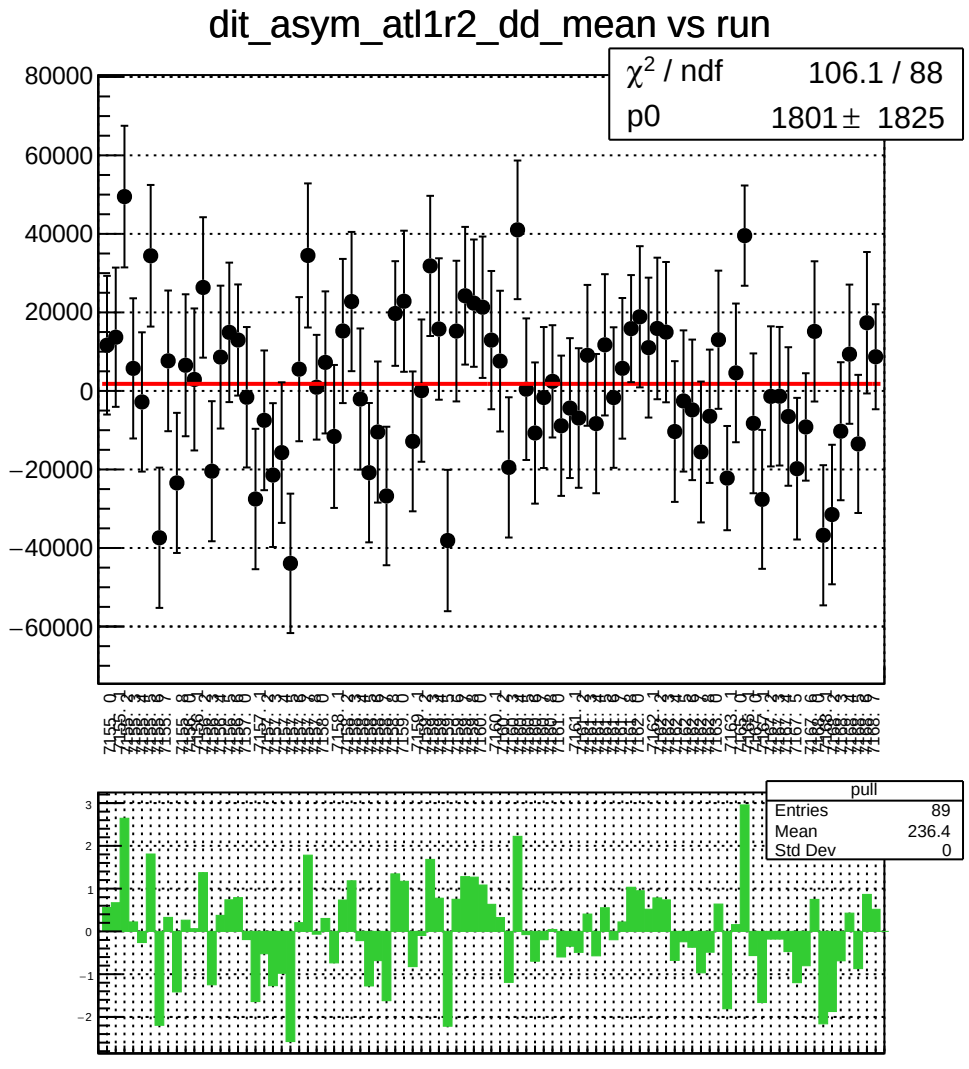

pull1D
Entries 89
Mean −0.01315
Std Dev 1.089

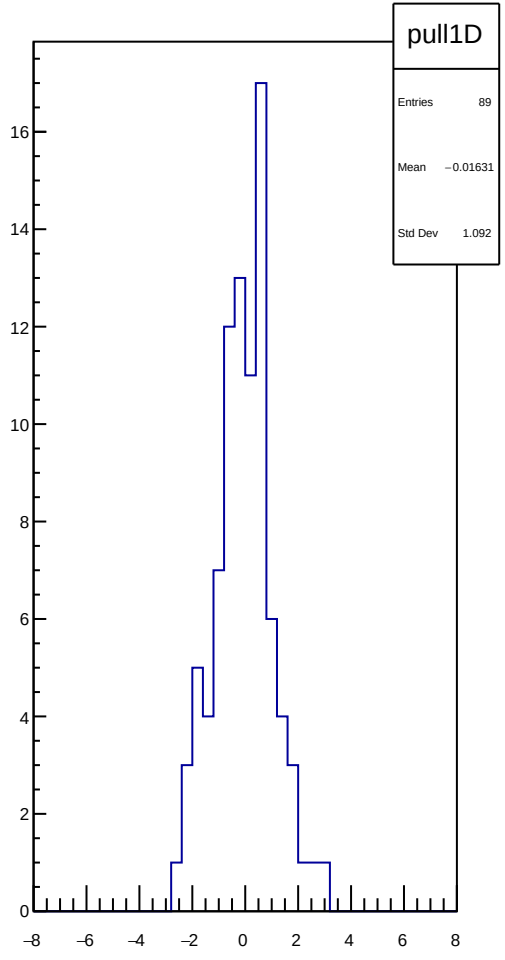

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 125.6 / 88
p0 1677 ± 1.275
1720
1700
1680
1660
1640

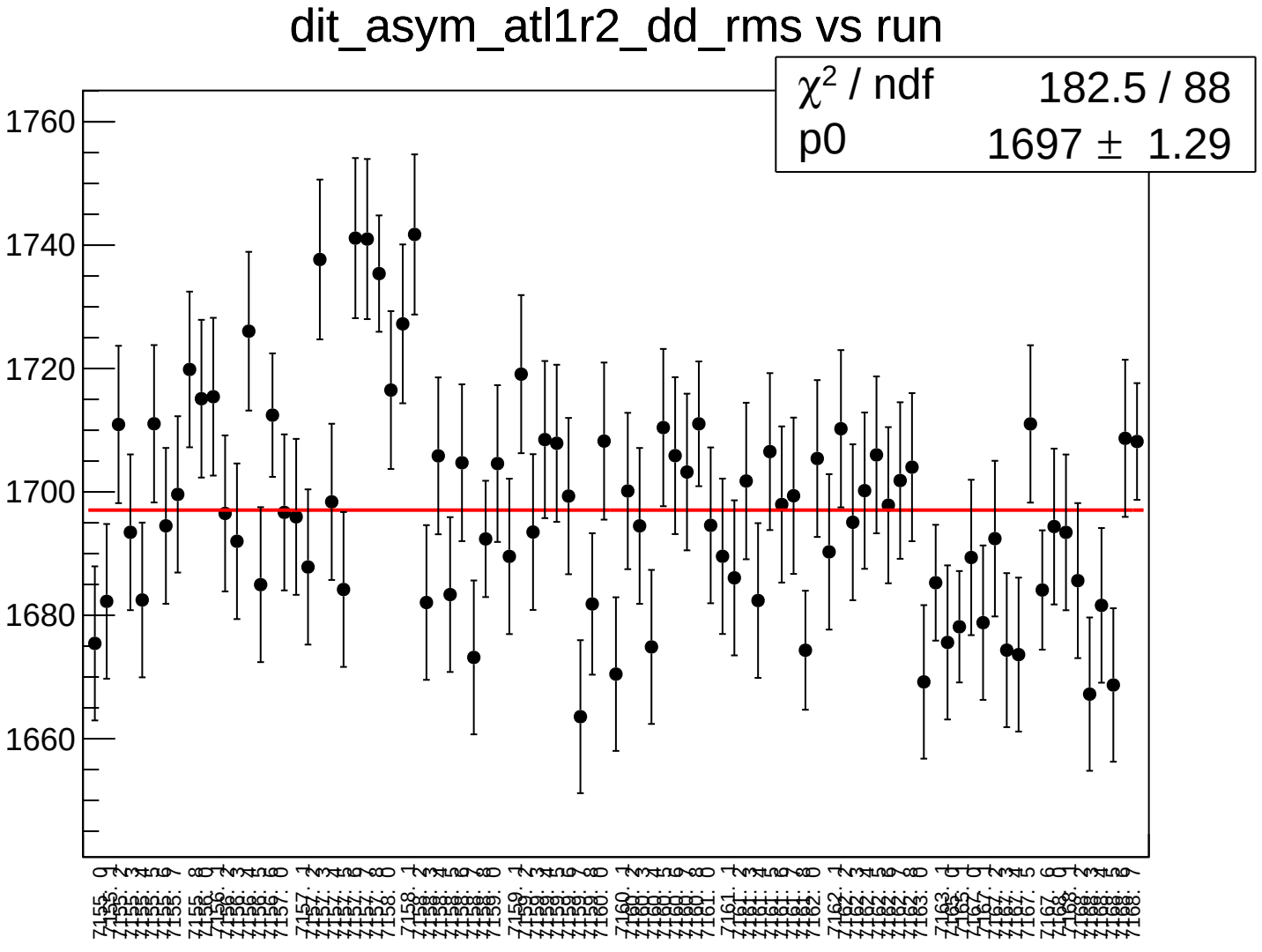

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69 / 88
p0 1344 ± 7709
pull
Entries 89
Mean −14.44
Std Dev 0

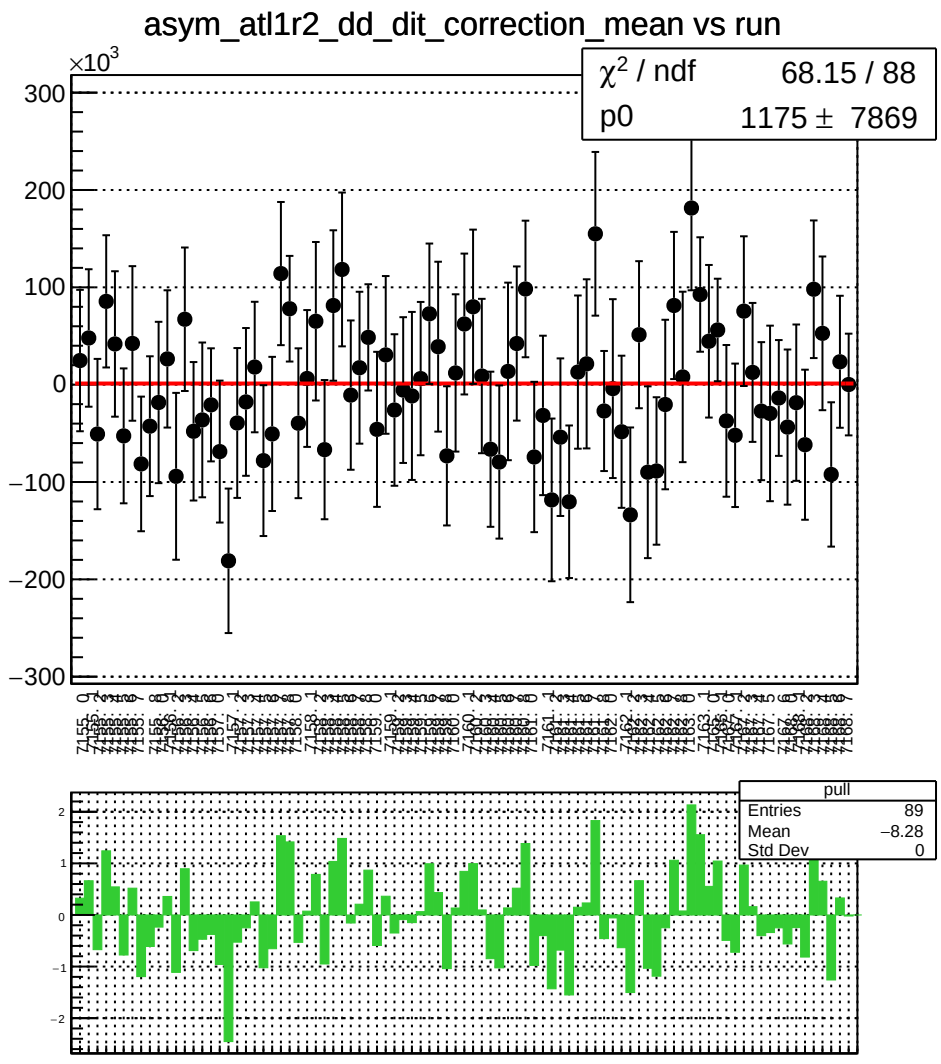

pull1D
Entries 89
Mean −0.02241
Std Dev 0.8802

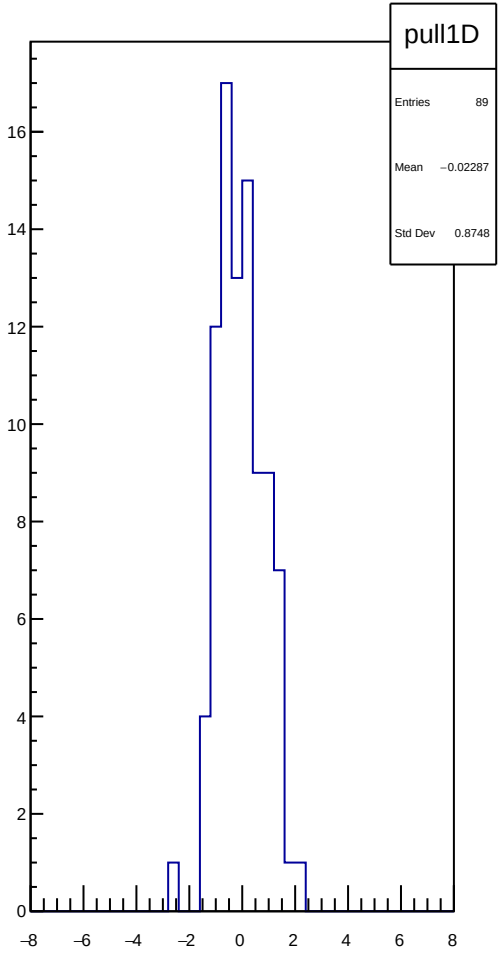

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8646 / 88
p0 7152 ± 5.451
8500
8000
7500
7000
6500
6000

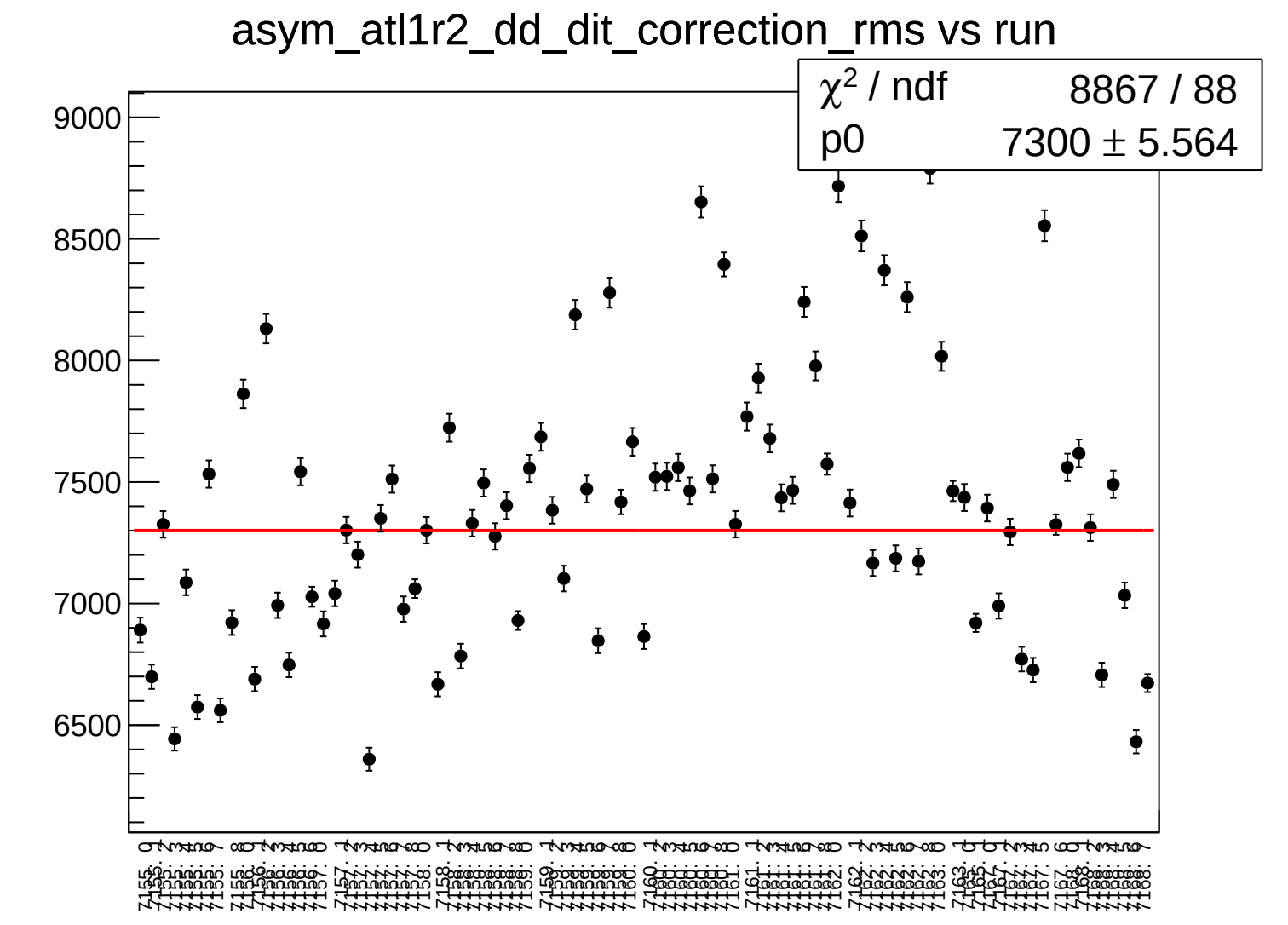

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 106.1 / 88
p0 1801 ± 1825
pull
Entries 89
Mean 236.4
Std Dev 0

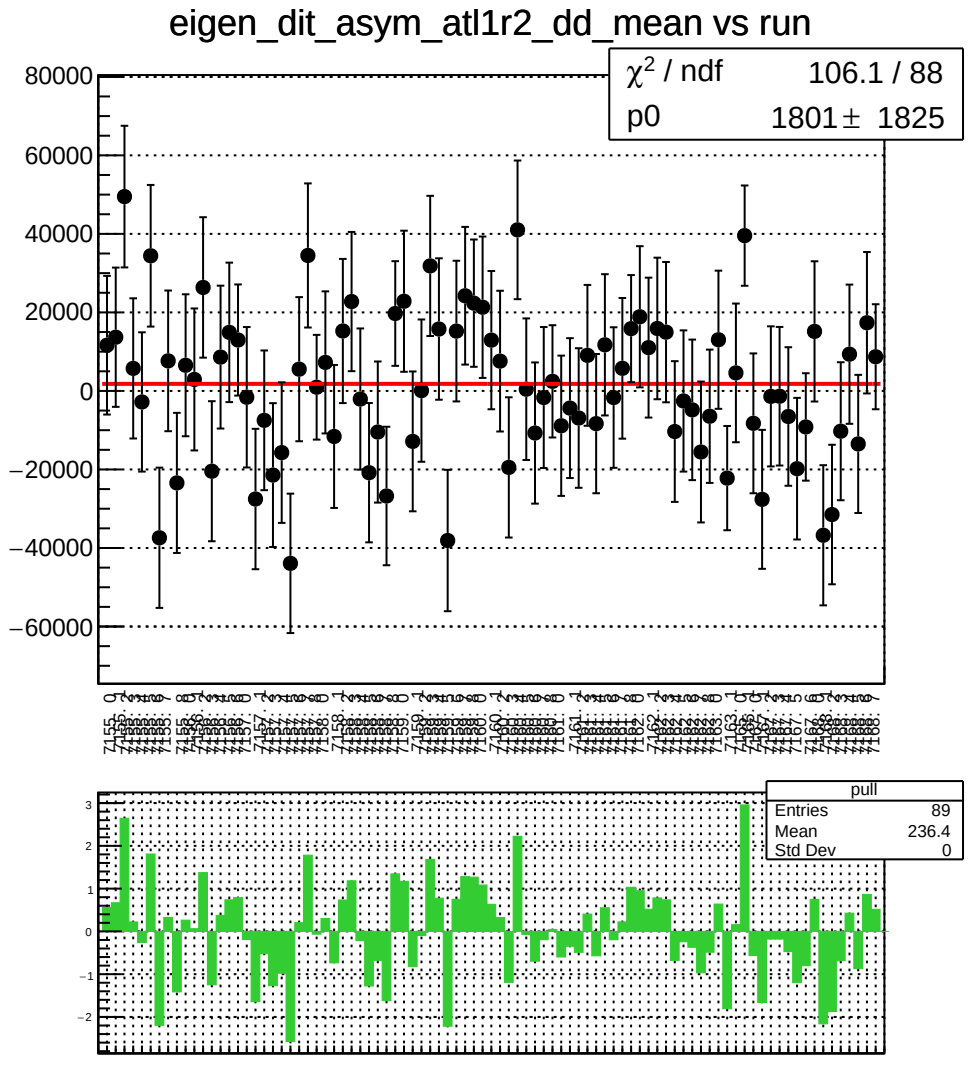

pull1D
Entries 89
Mean −0.01631
Std Dev 1.092

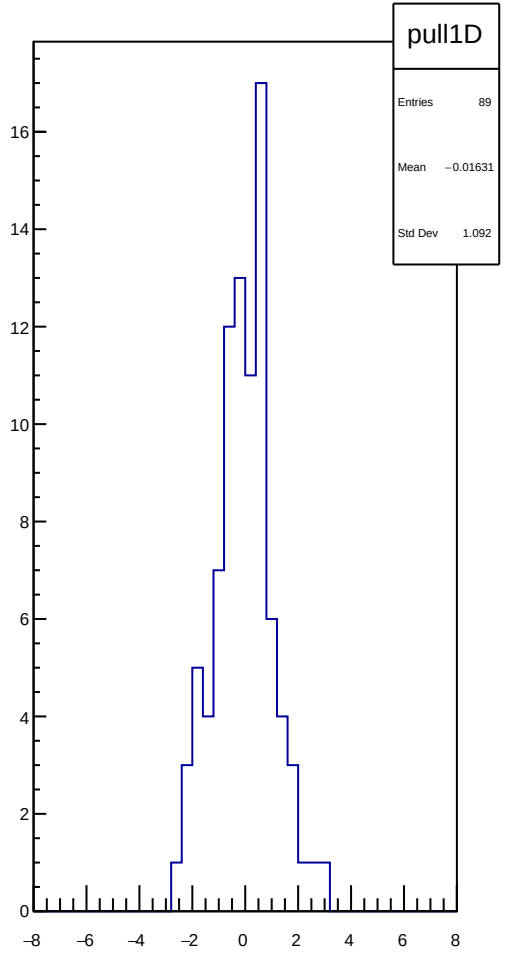

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 182.5 / 88
p0 1697 ± 1.29
1760
1740
1720
1700
1680
1660

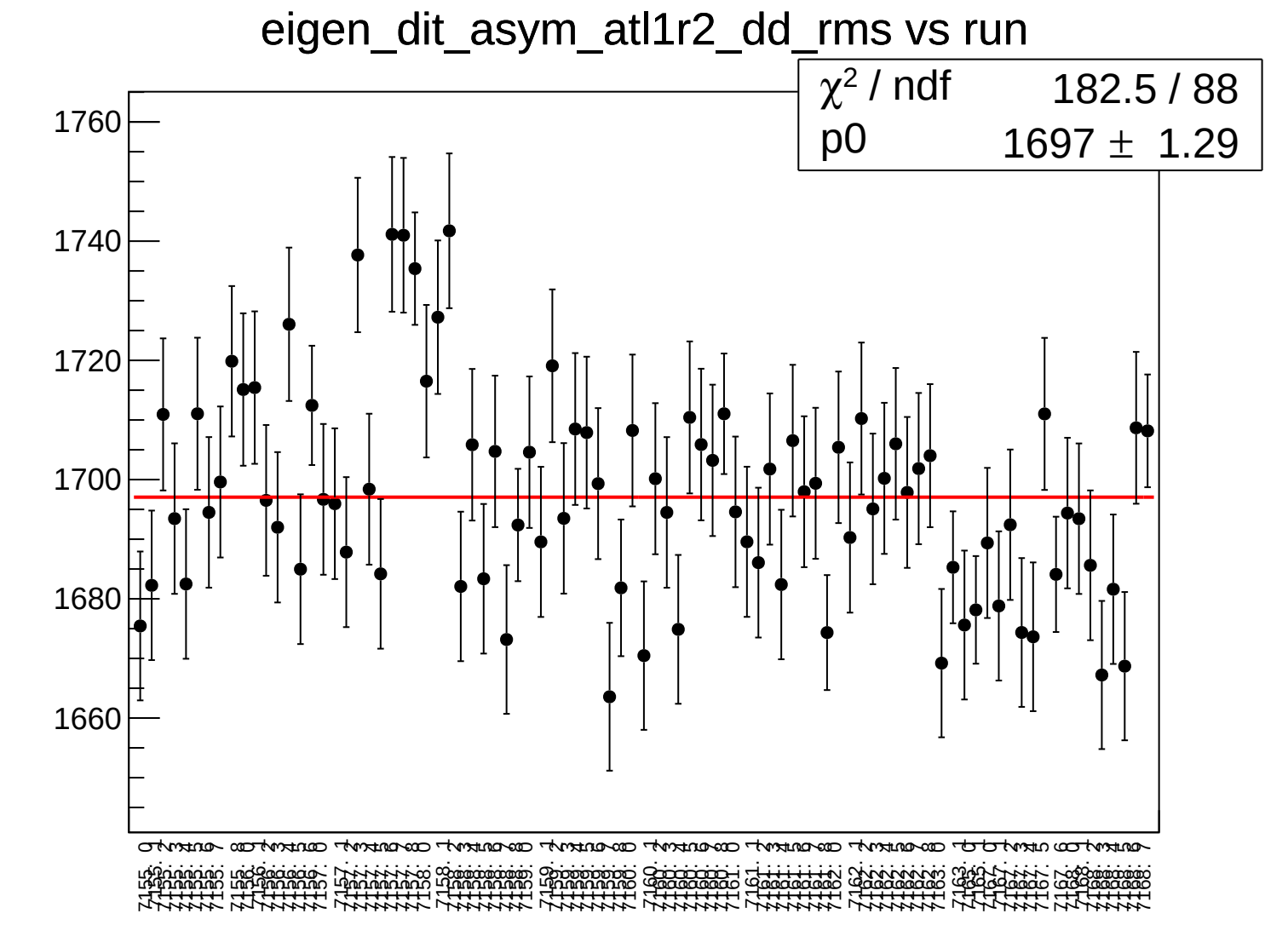

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.15 / 88
p0 1175 ± 7869
pull
Entries 89
Mean −8.28
Std Dev 0

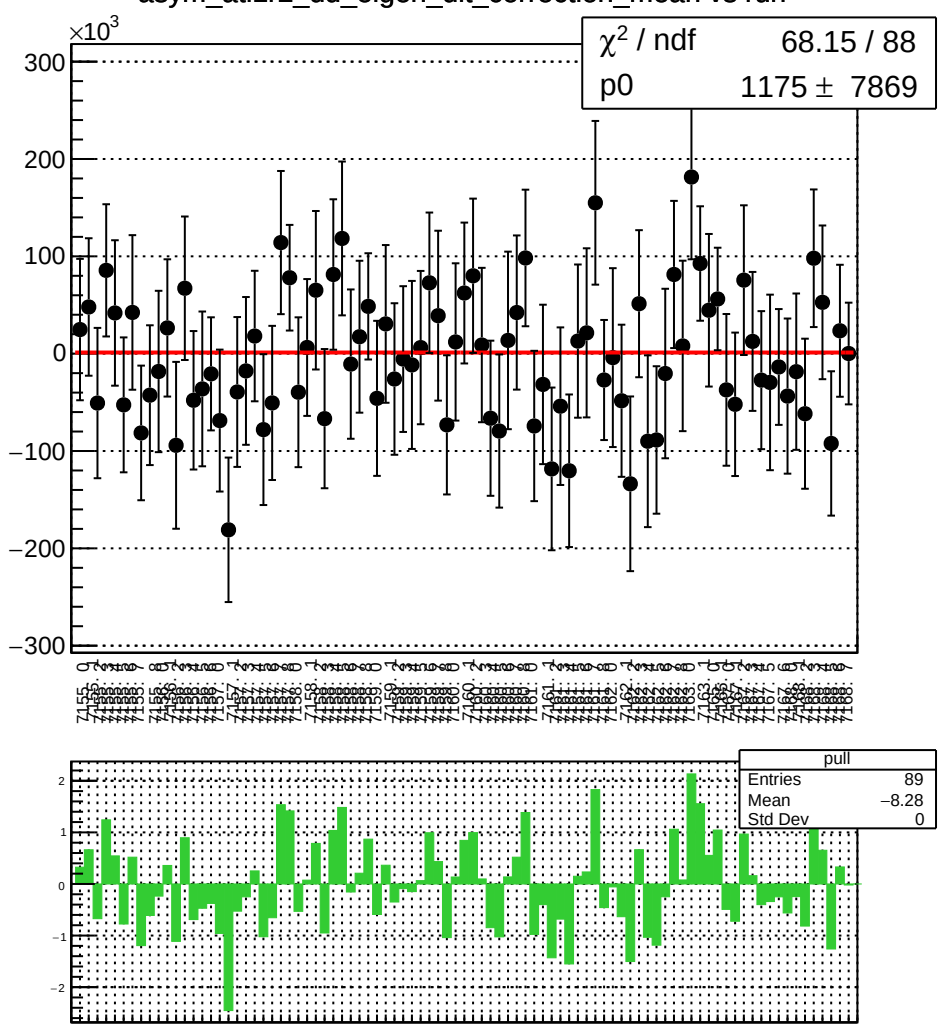

pull1D
Entries 89
Mean −0.02287
Std Dev 0.8748

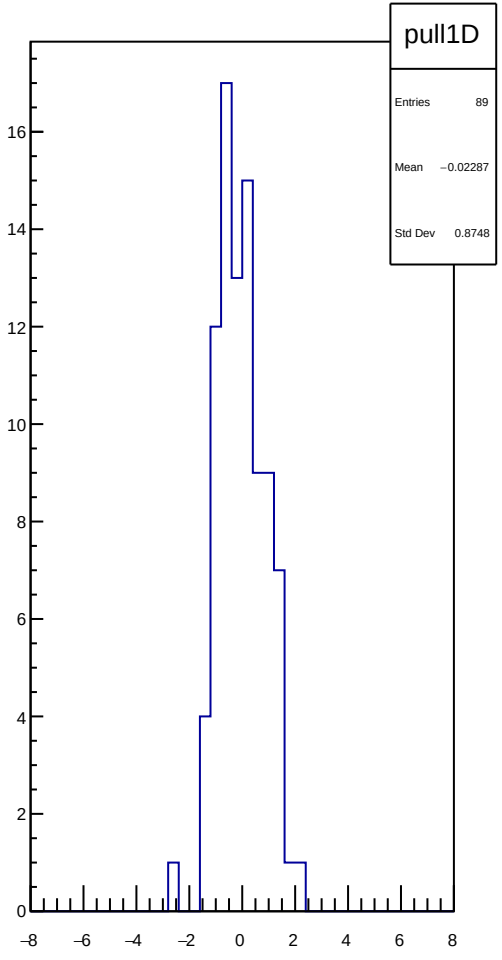

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 8867 / 88
p0 7300 ± 5.564
9000
8500
8000
7500
7000
6500

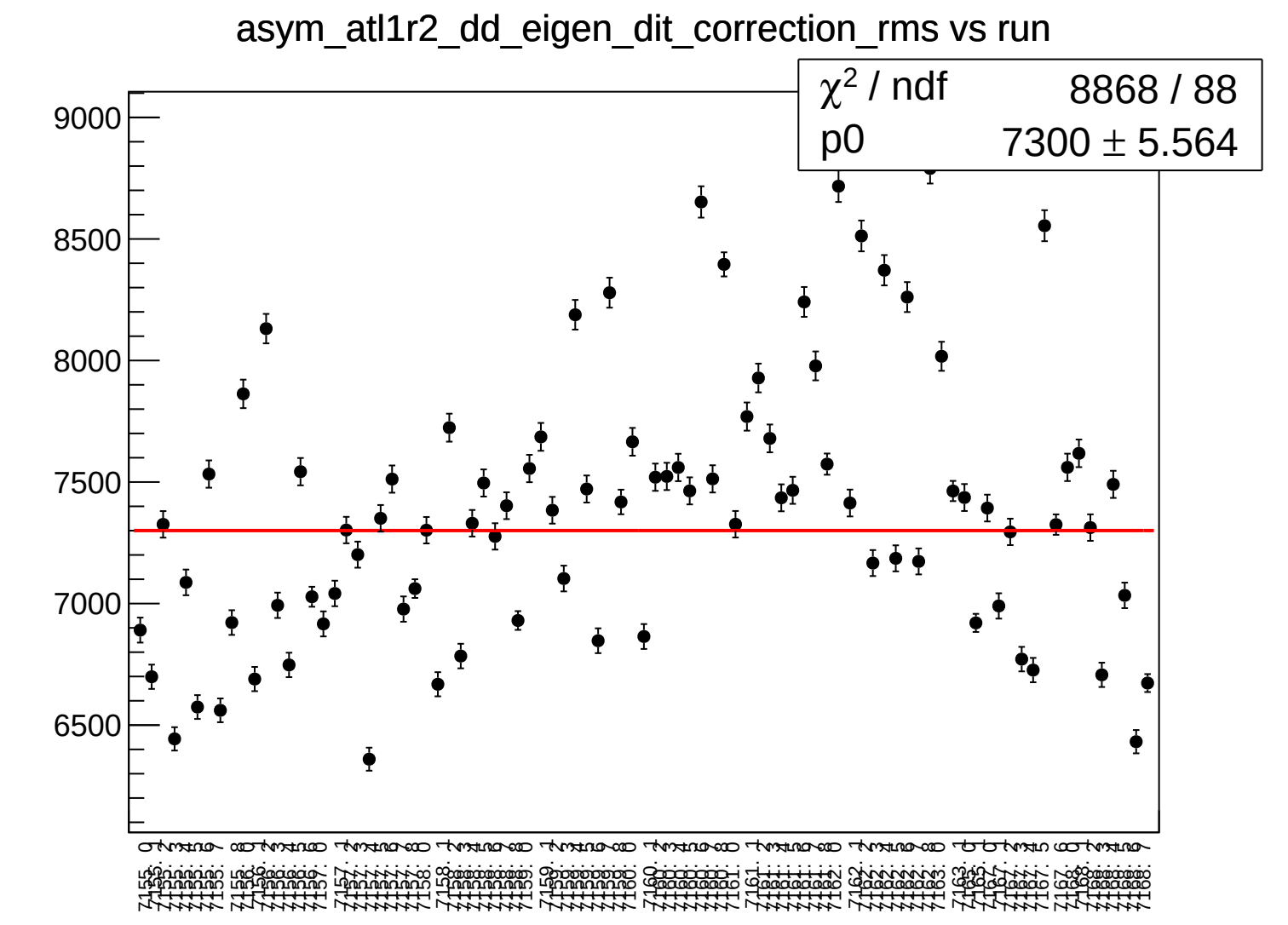

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 106.1 / 88
p0 1801 ± 1825
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 236.4
Std Dev 0
3
2
1
0
−1
−2

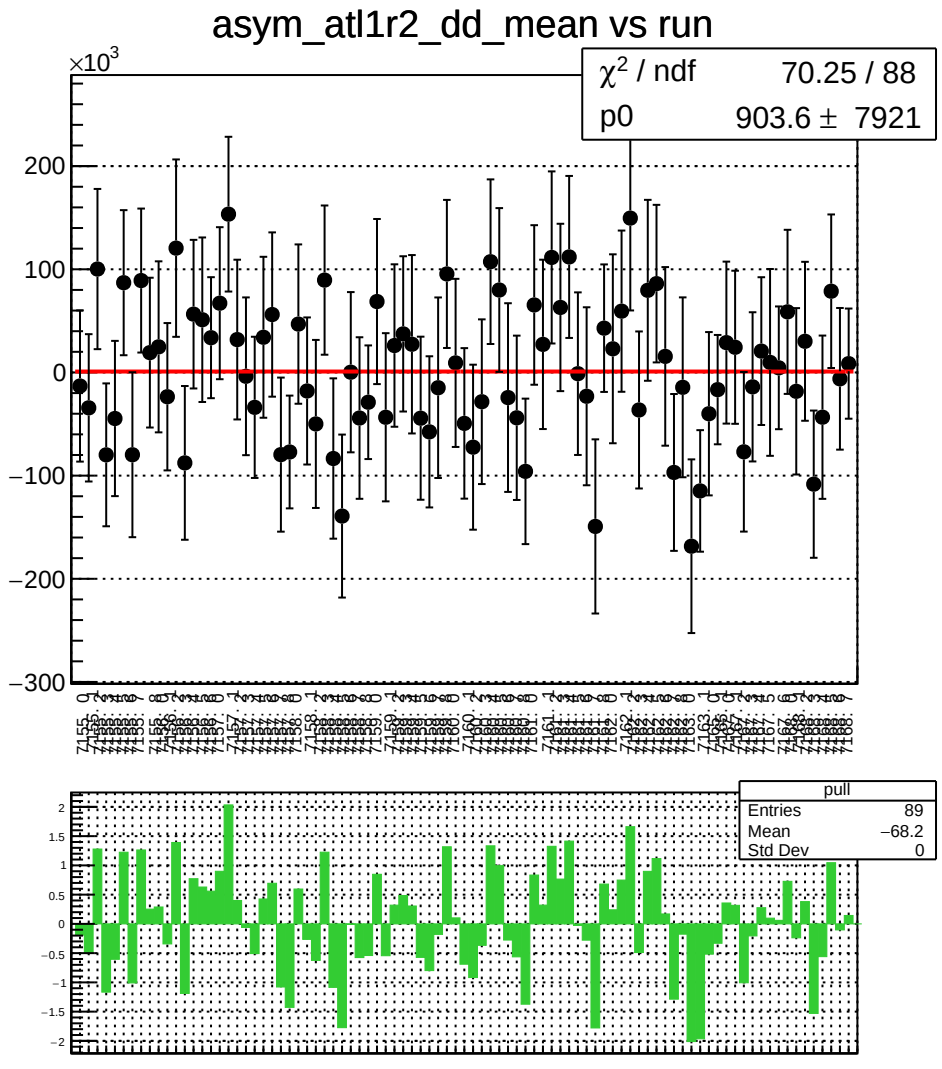

pull1D
Entries 89
Mean −0.01631
Std Dev 1.092
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

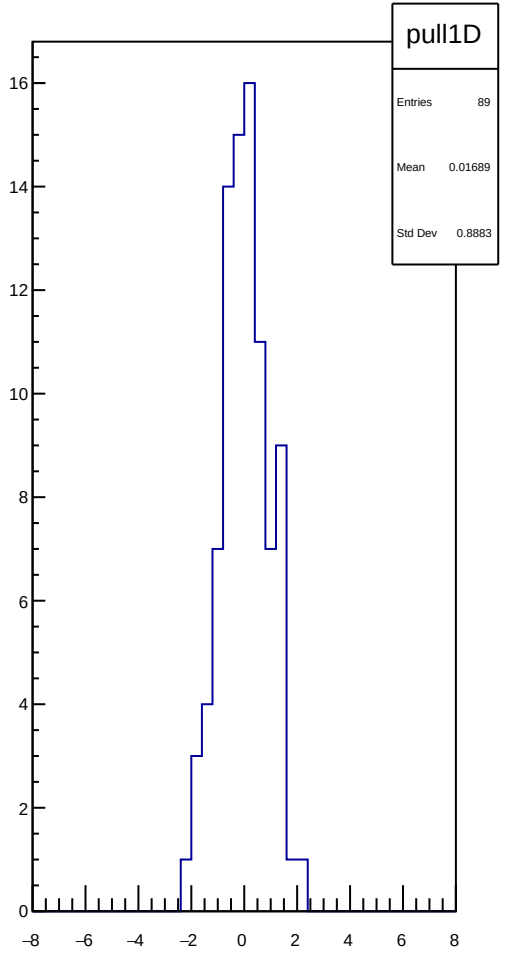

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 182.5 / 88
p0 1697 ± 1.29
1760
1740
1720
1700
1680
1660

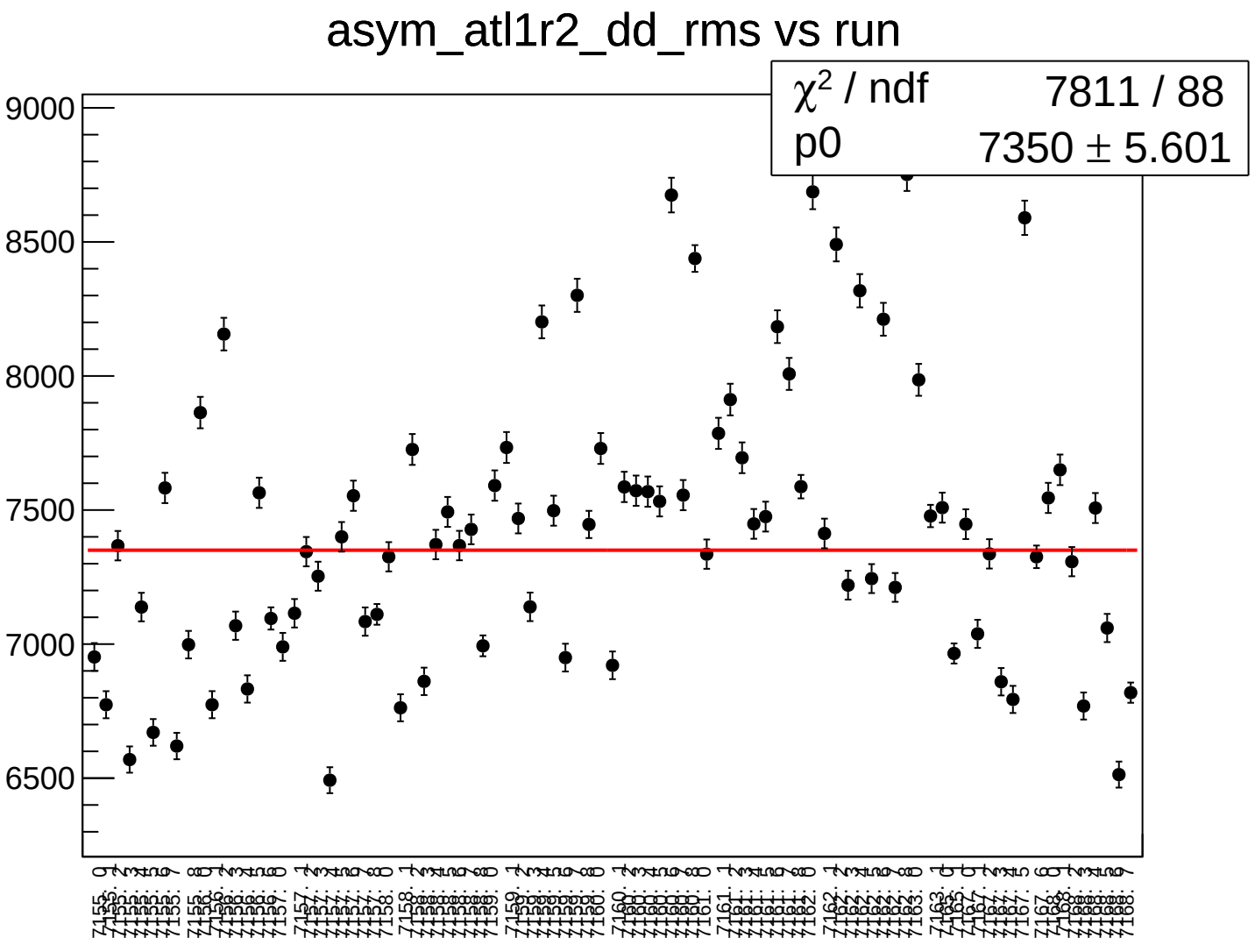

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.15 / 88
p0 1175 ± 7869
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −8.28
Std Dev 0
2
1
0
−1
−2

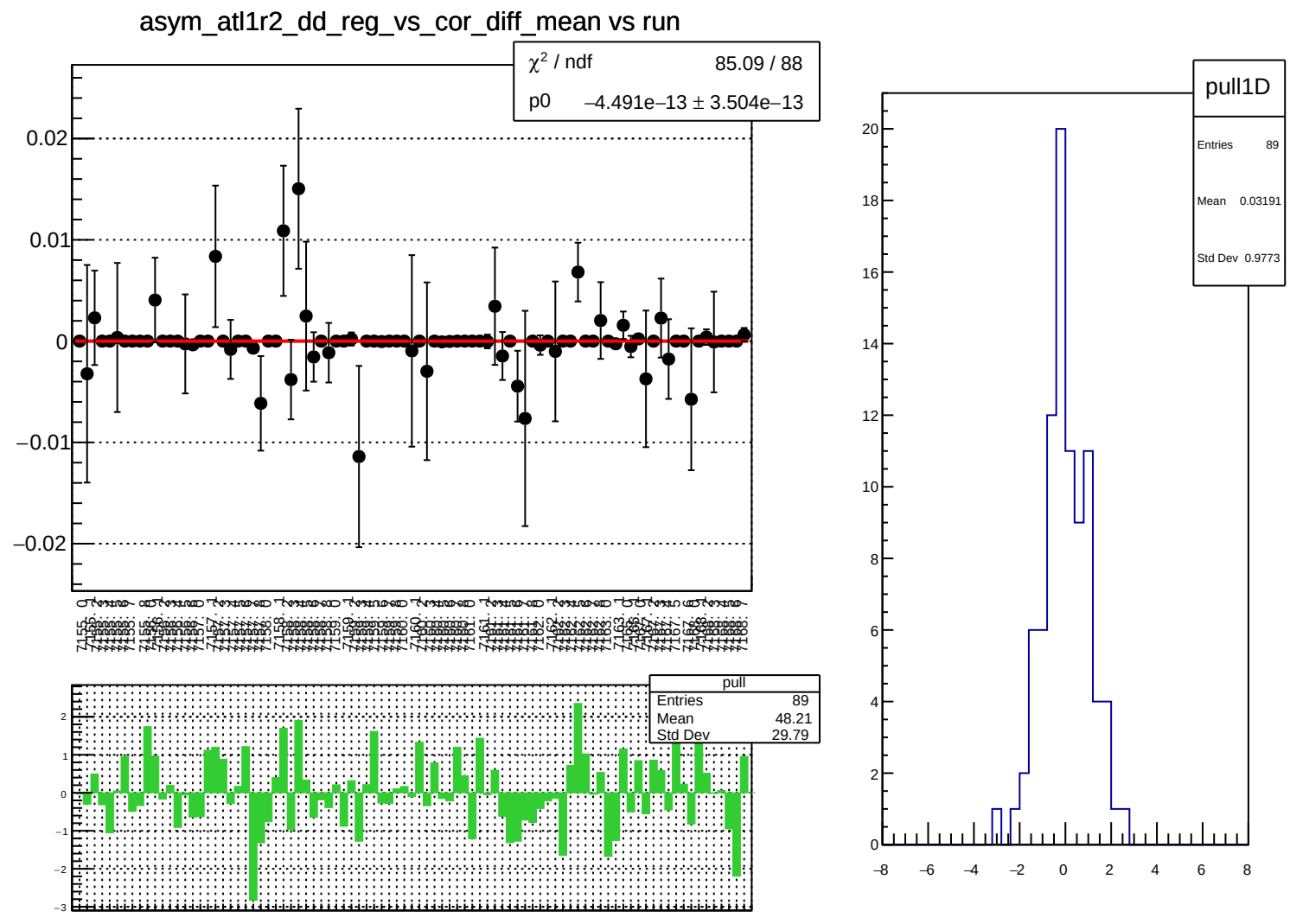

pull1D
Entries 89
Mean −0.02287
Std Dev 0.8748
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

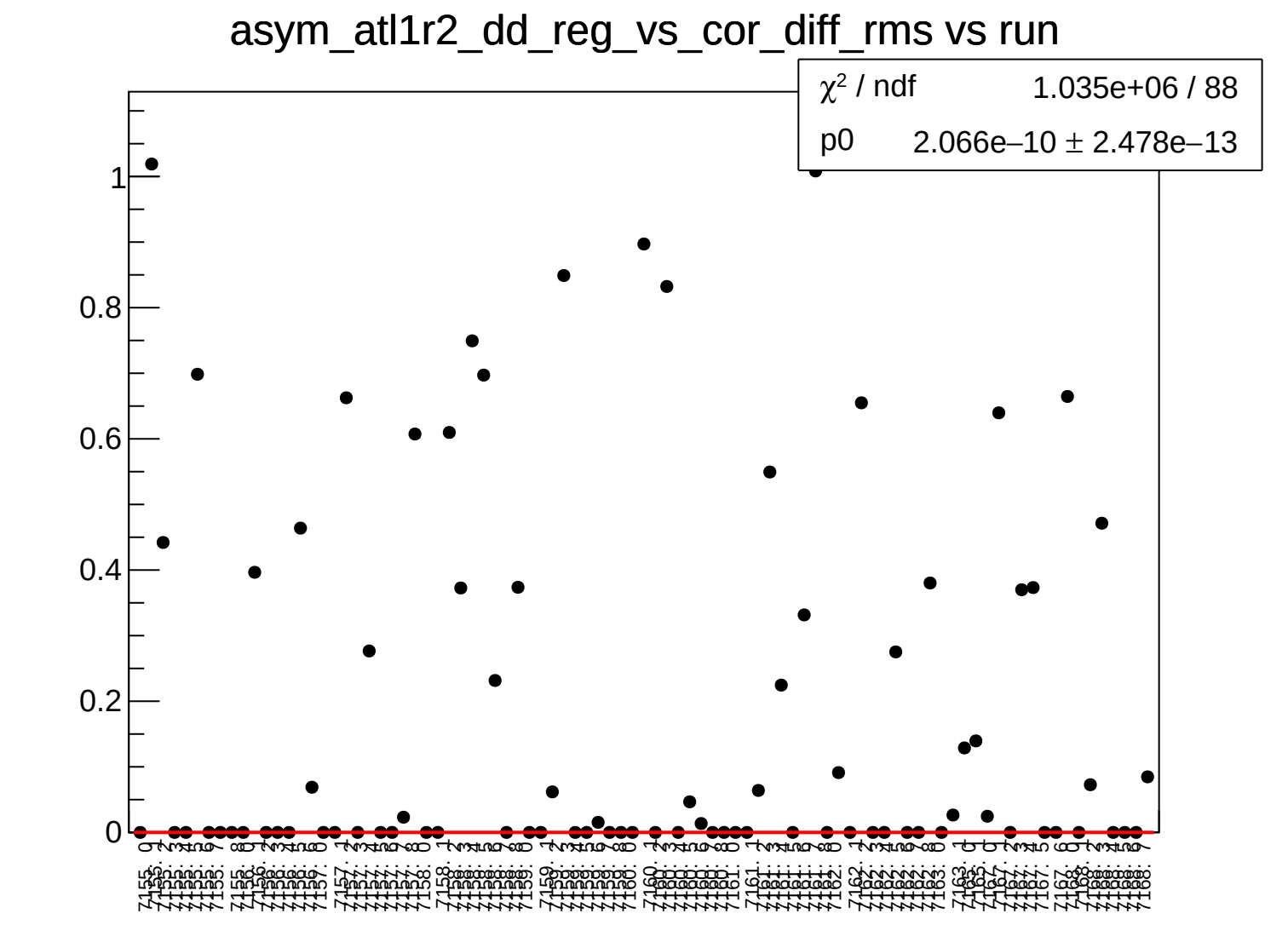

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 8868 / 88
p0 7300 ± 5.564
9000
8500
8000
7500
7000
6500

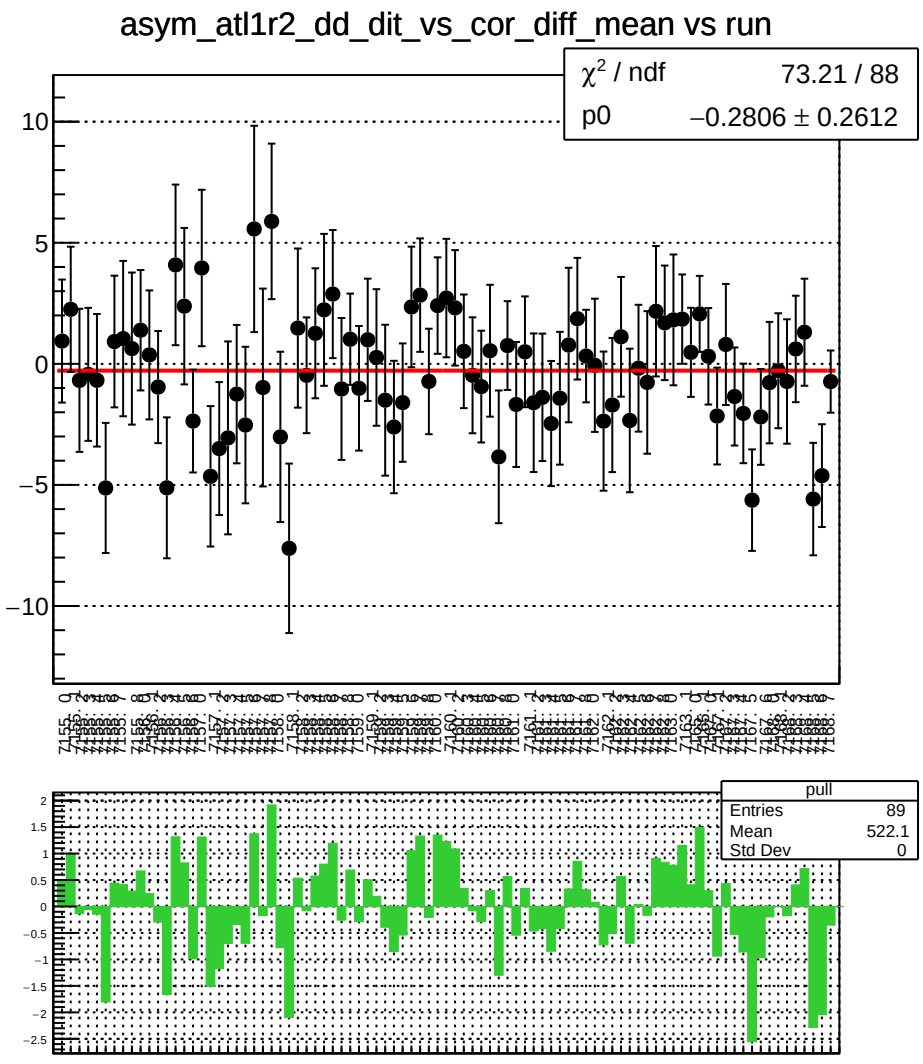

asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 70.25 / 88
p0 903.6 ± 7921
200
100
0
−100
−200
−300
pull
Entries 89
Mean −68.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

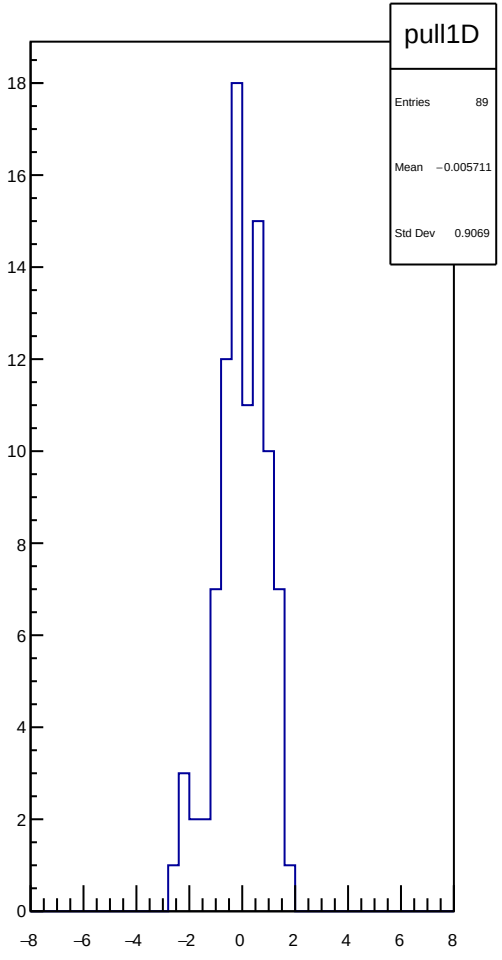

pull1D
Entries 89
Mean 0.01689
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

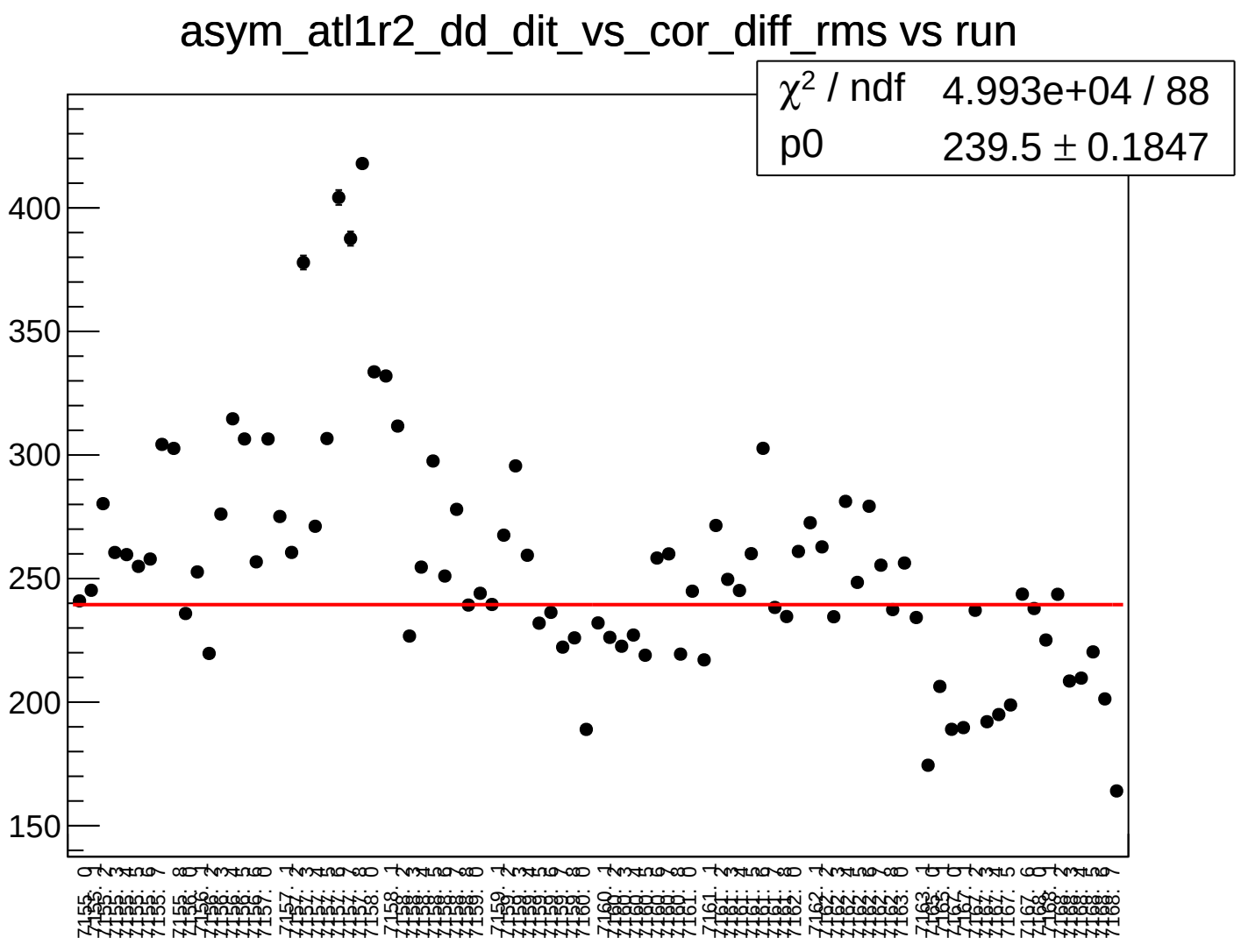

asym_atl1r2_dd_rms vs run
χ² / ndf 7811 / 88
p0 7350 ± 5.601
9000
8500
8000
7500
7000
6500

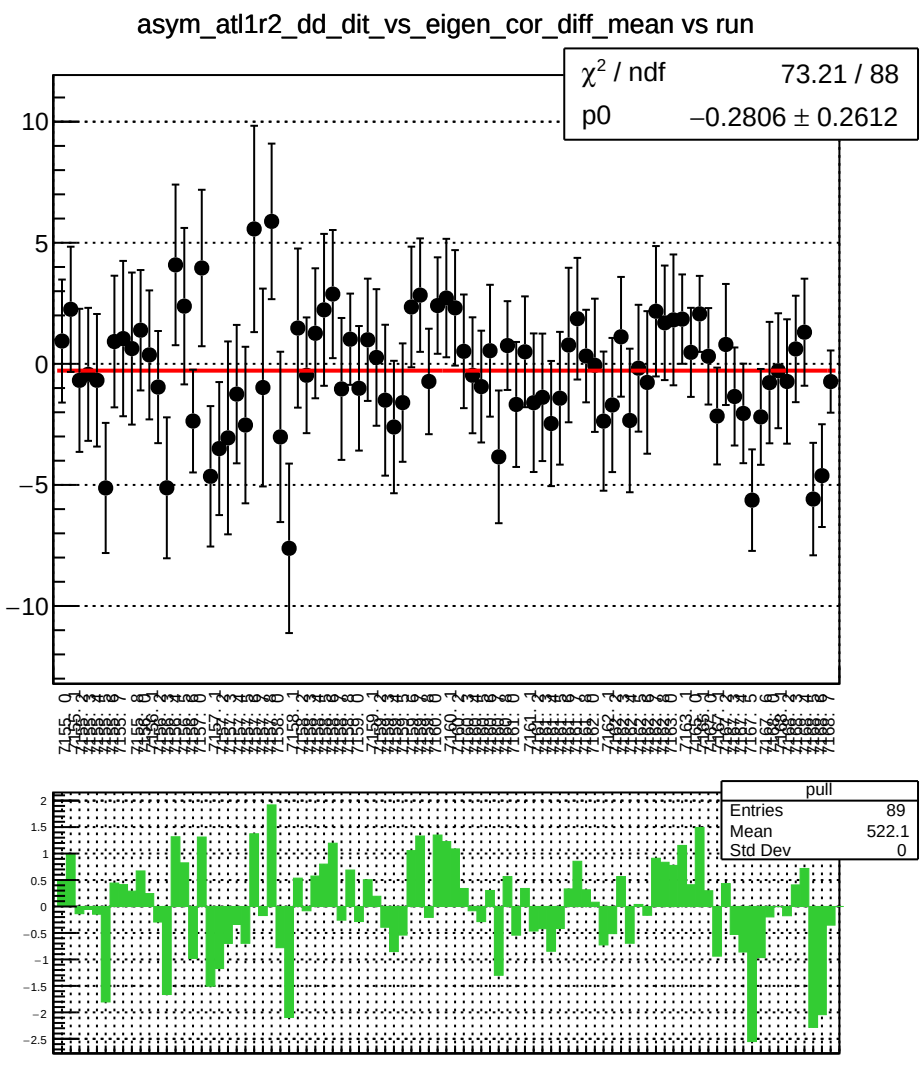

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.09 / 88
p0 −4.491e−13 ± 3.504e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 48.21
Std Dev 29.79
pull1D
Entries 89
Mean 0.03191
Std Dev 0.9773

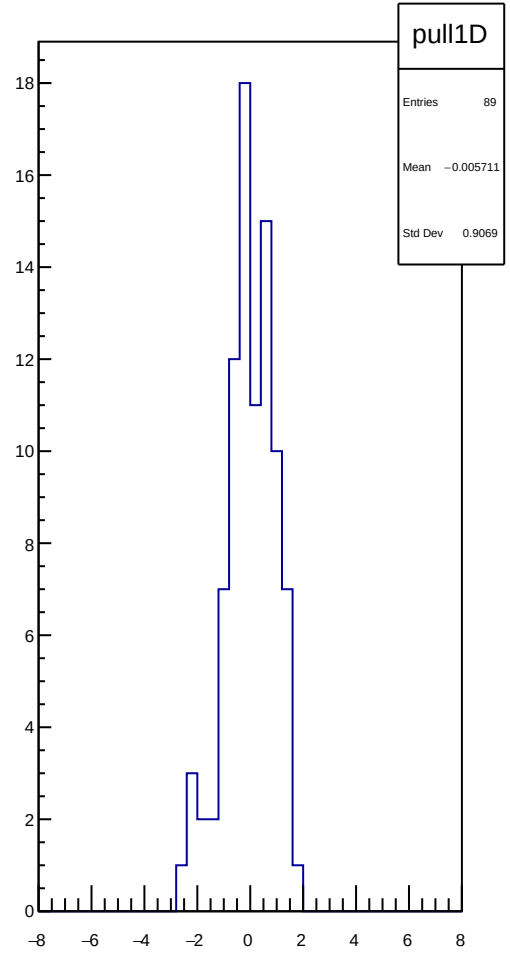

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.035e+06 / 88
p0 2.066e−10 ± 2.478e−13
1
0.8
0.6
0.4
0.2
0

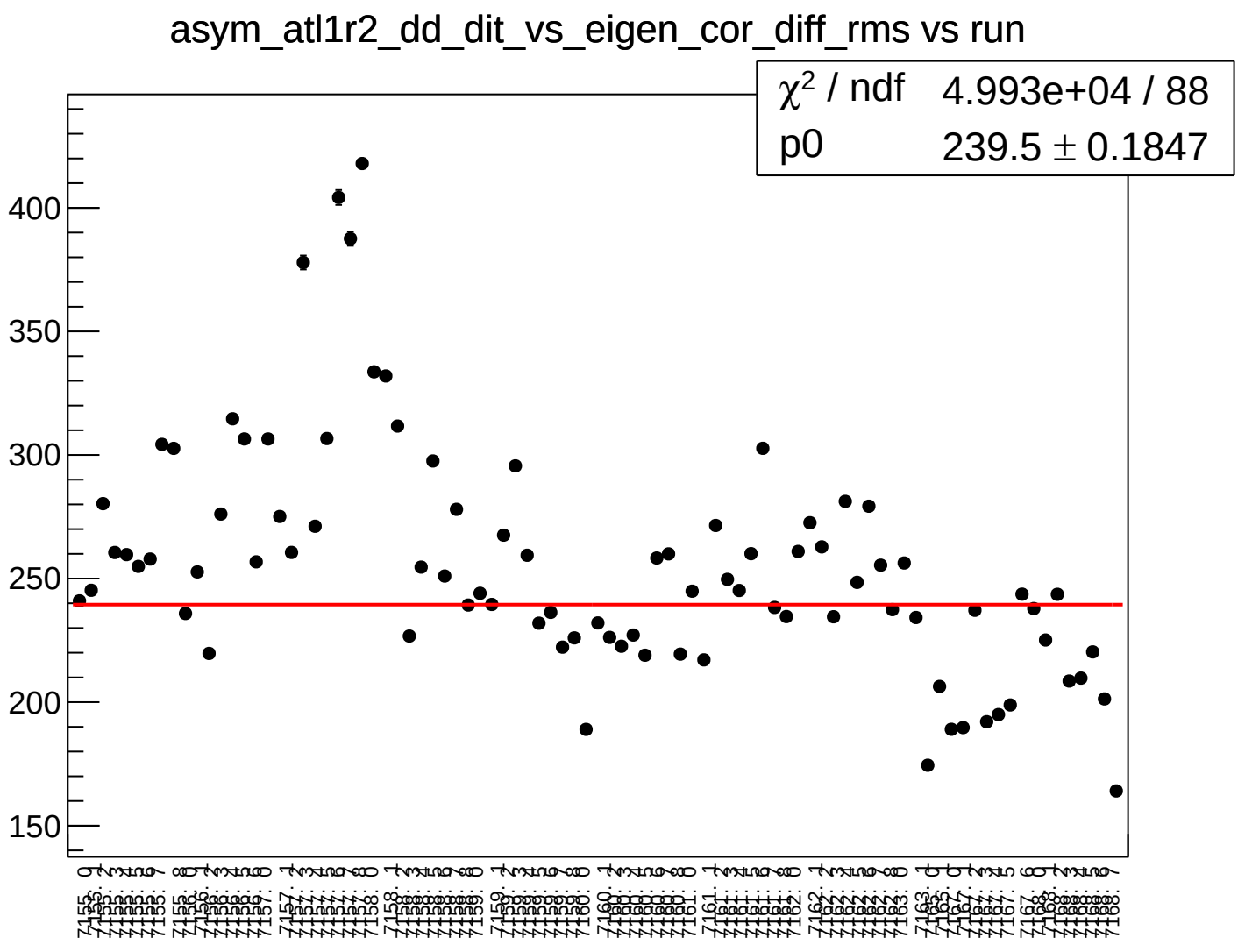

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.21 / 88
p0 −0.2806 ± 0.2612
pull
Entries 89
Mean 522.1
Std Dev 0

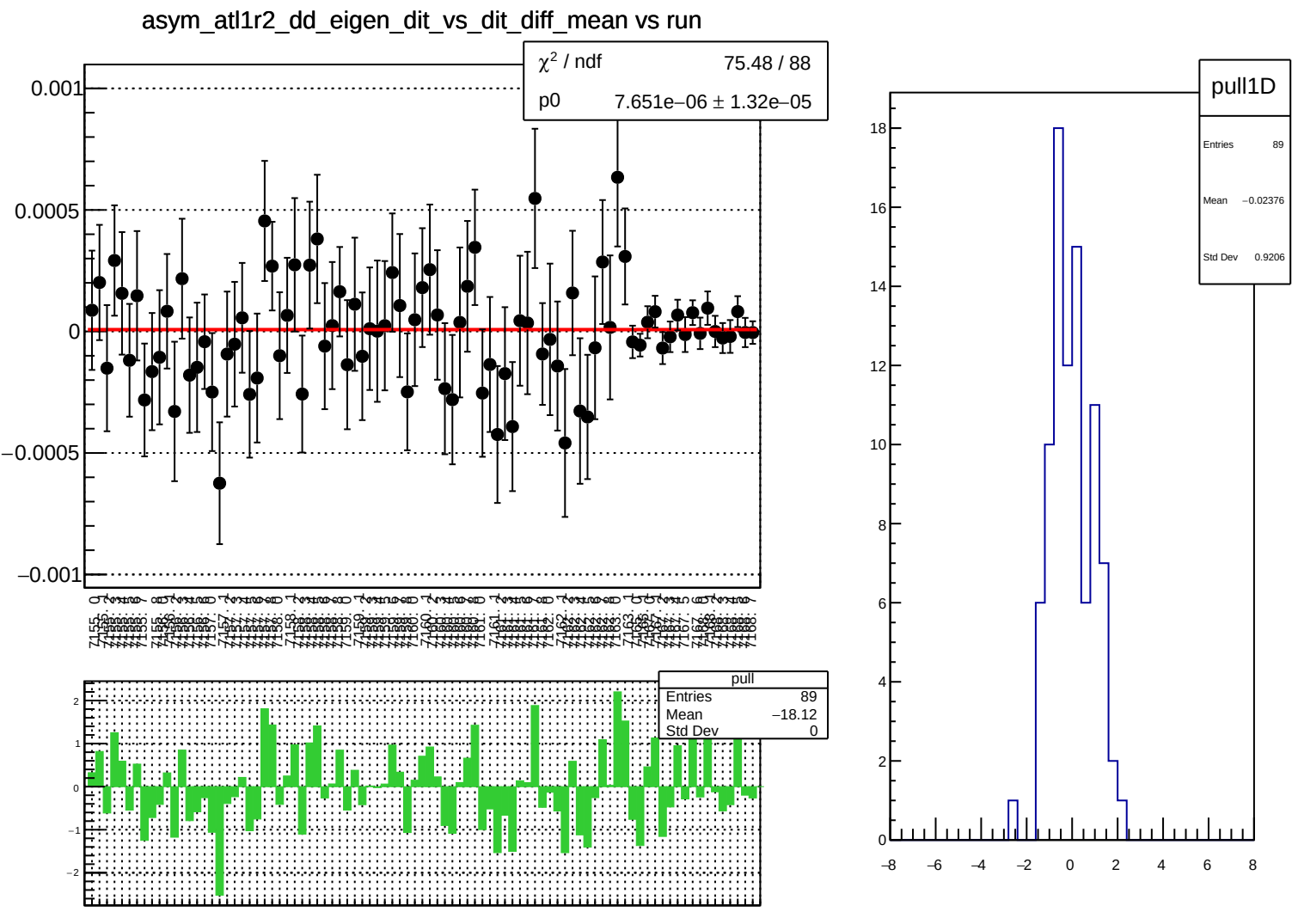

pull1D
Entries 89
Mean −0.005711
Std Dev 0.9069

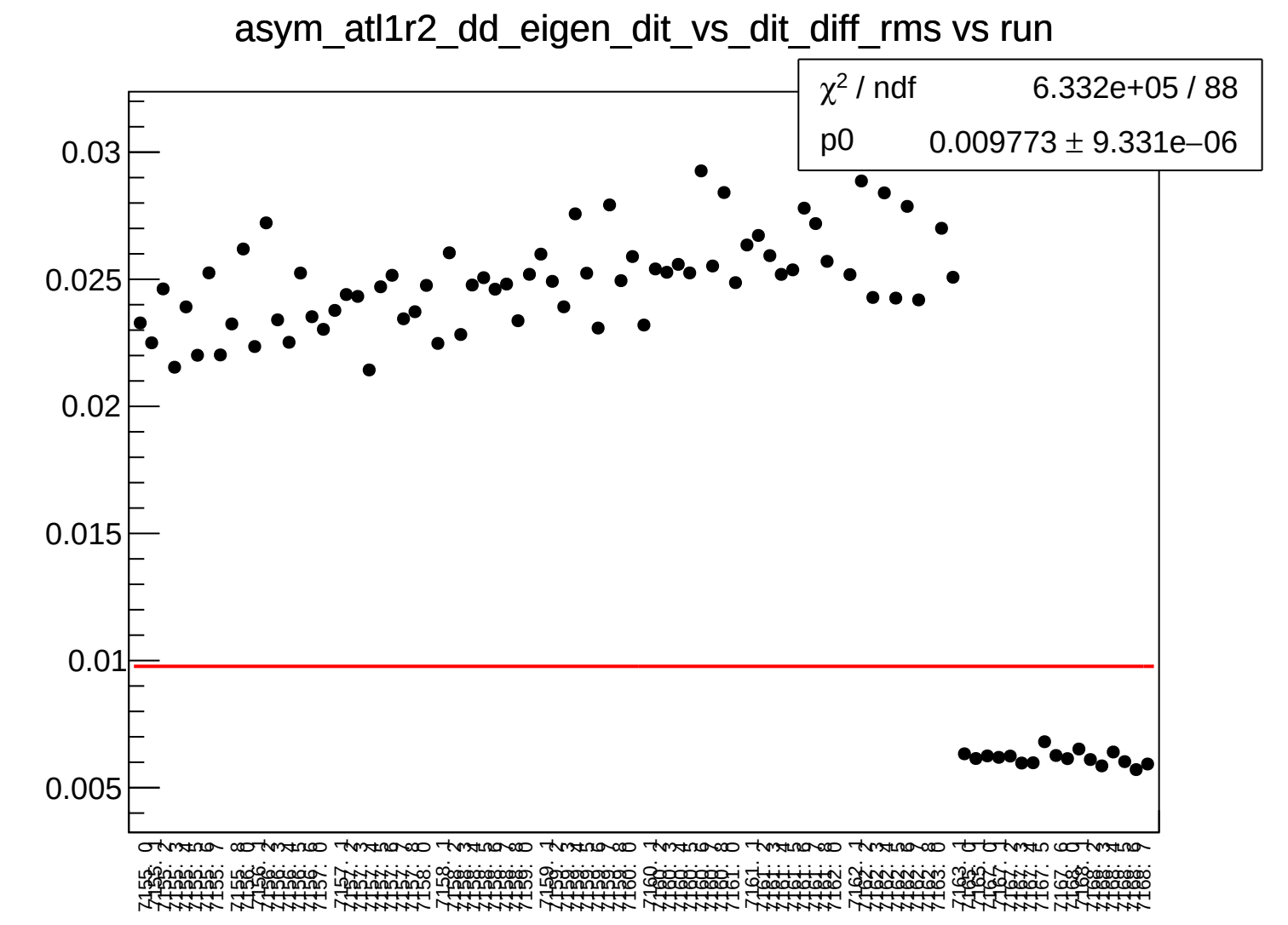

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.993e+04 / 88
p0 239.5 ± 0.1847
400
350
300
250
200
150

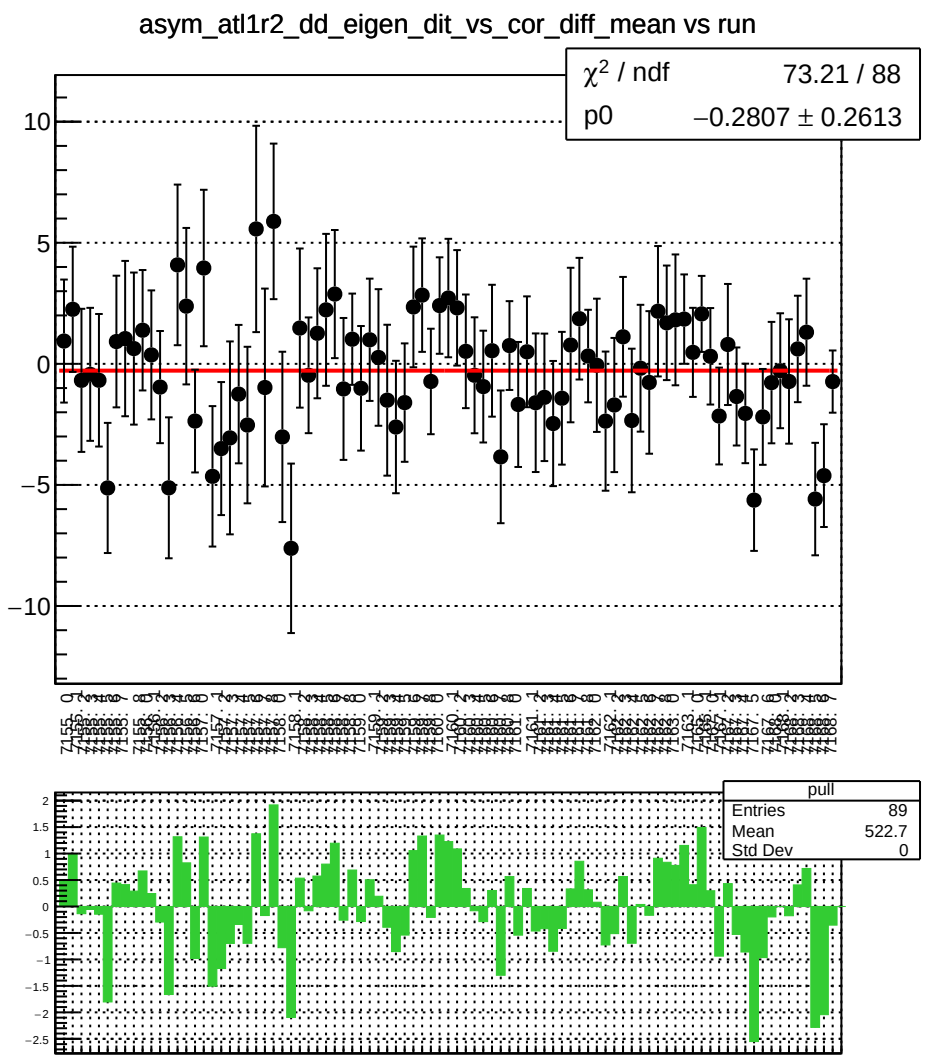

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.21 / 88
p0 −0.2806 ± 0.2612
pull
Entries 89
Mean 522.1
Std Dev 0

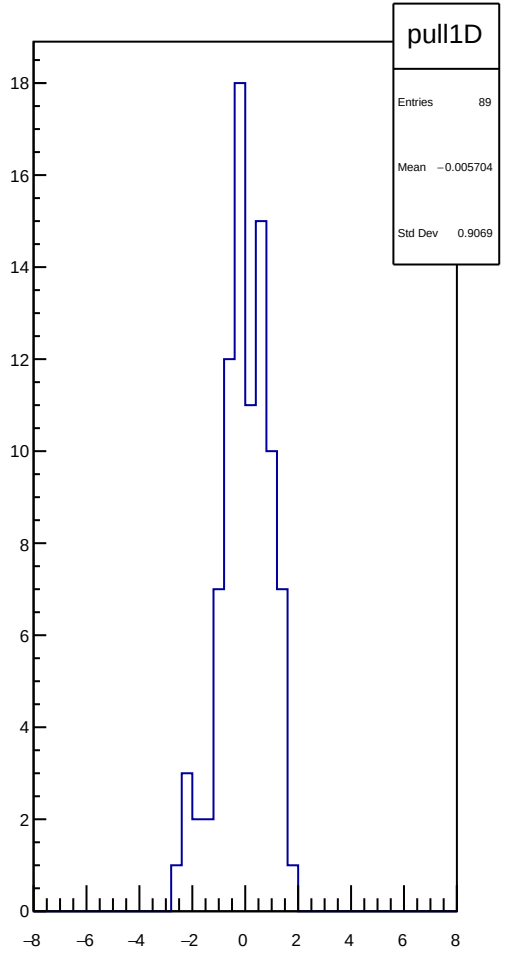

pull1D
Entries 89
Mean −0.005711
Std Dev 0.9069

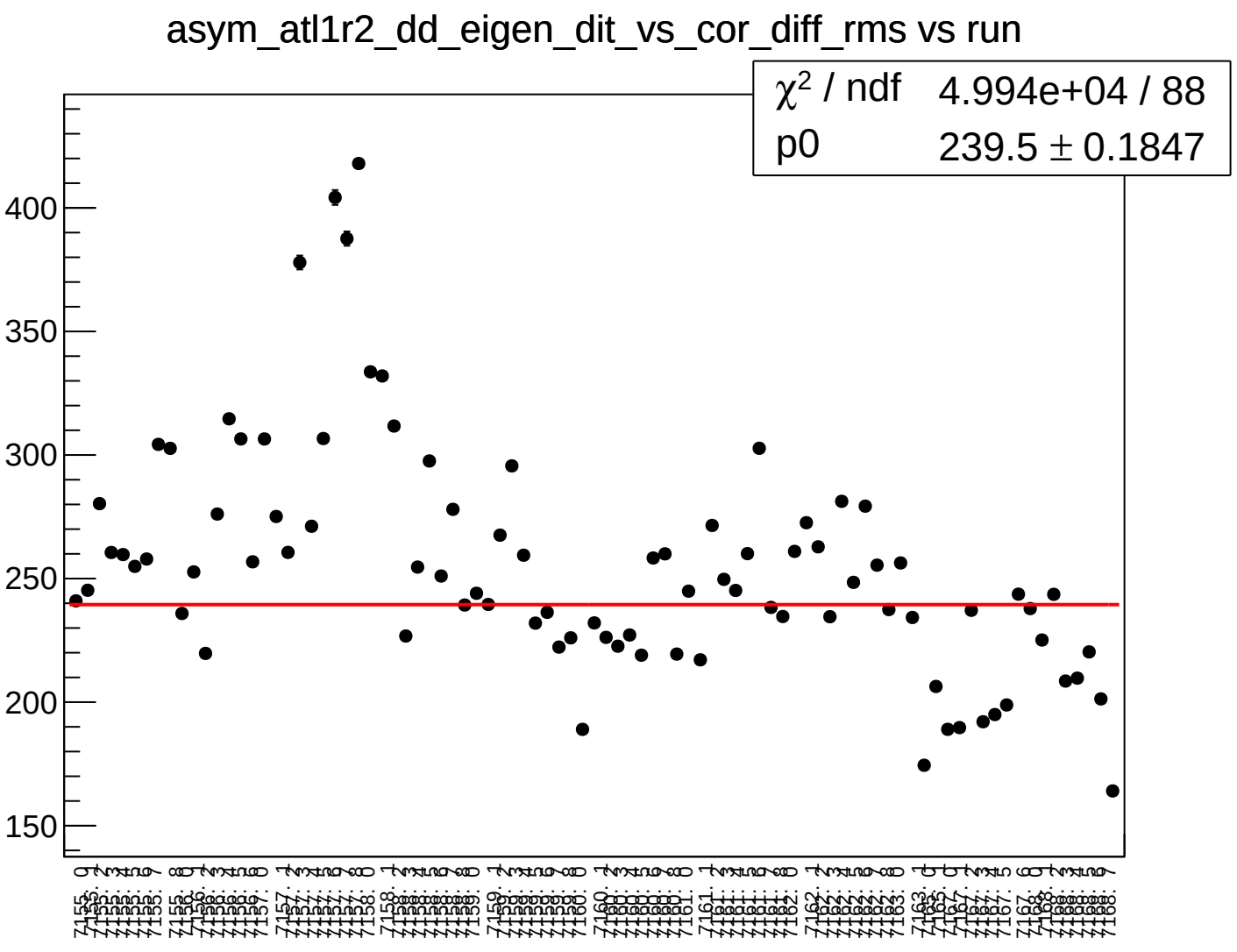

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.993e+04 / 88
p0 239.5 ± 0.1847
400
350
300
250
200
150

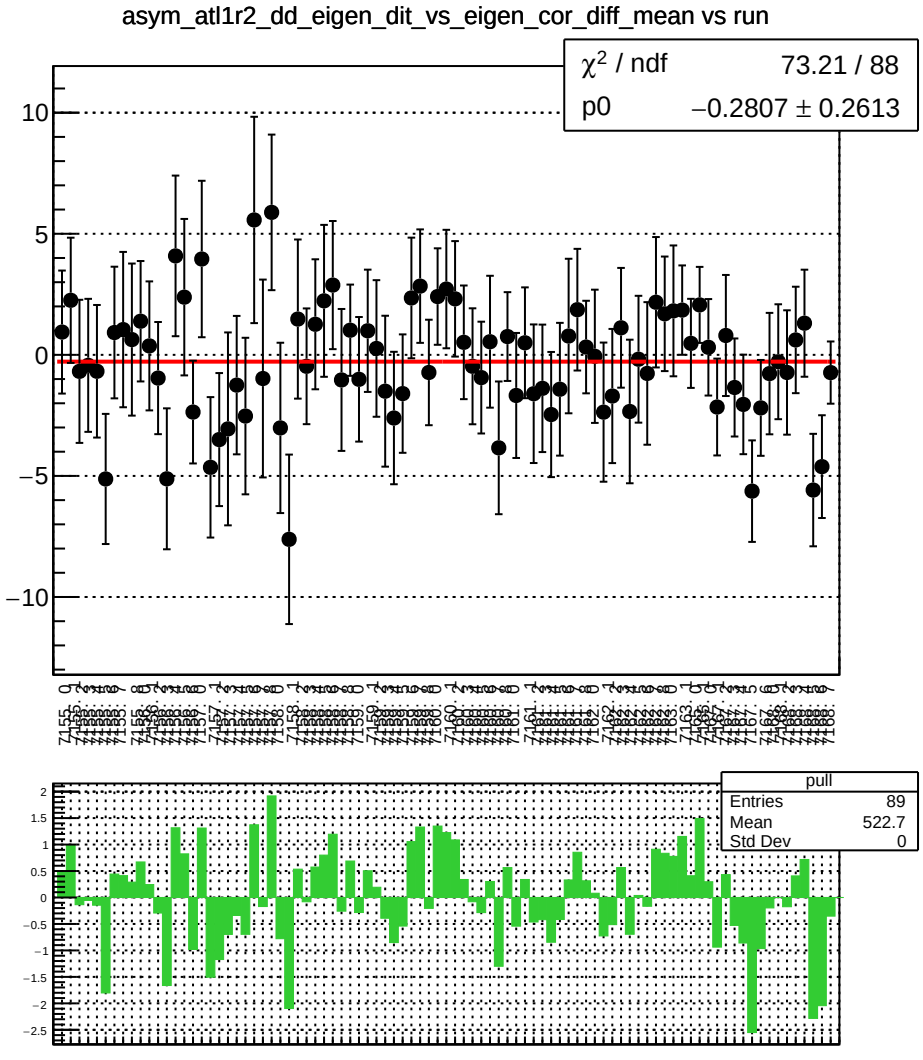

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 75.48 / 88
p0 7.651e−06 ± 1.32e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −18.12
Std Dev 0
pull1D
Entries 89
Mean −0.02376
Std Dev 0.9206

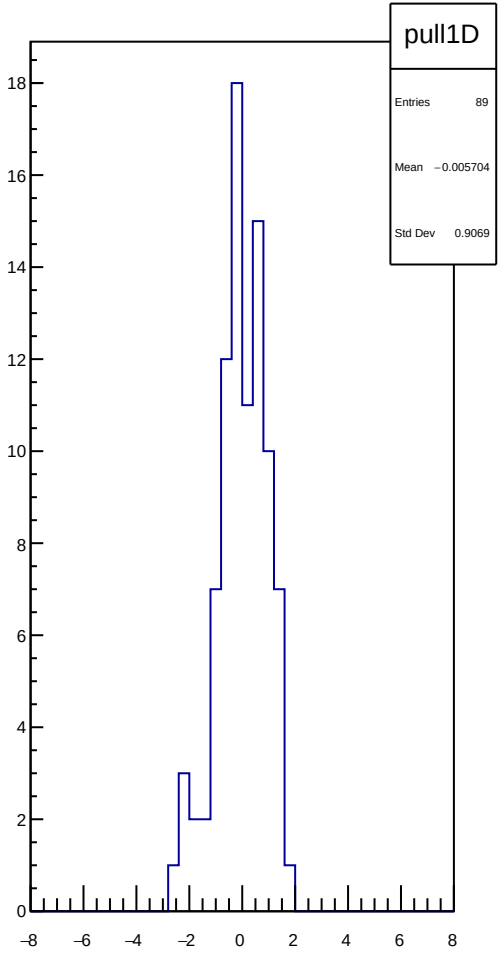

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.332e+05 / 88
p0 0.009773 ± 9.331e−06
0.03
0.025
0.02
0.015
0.01
0.005

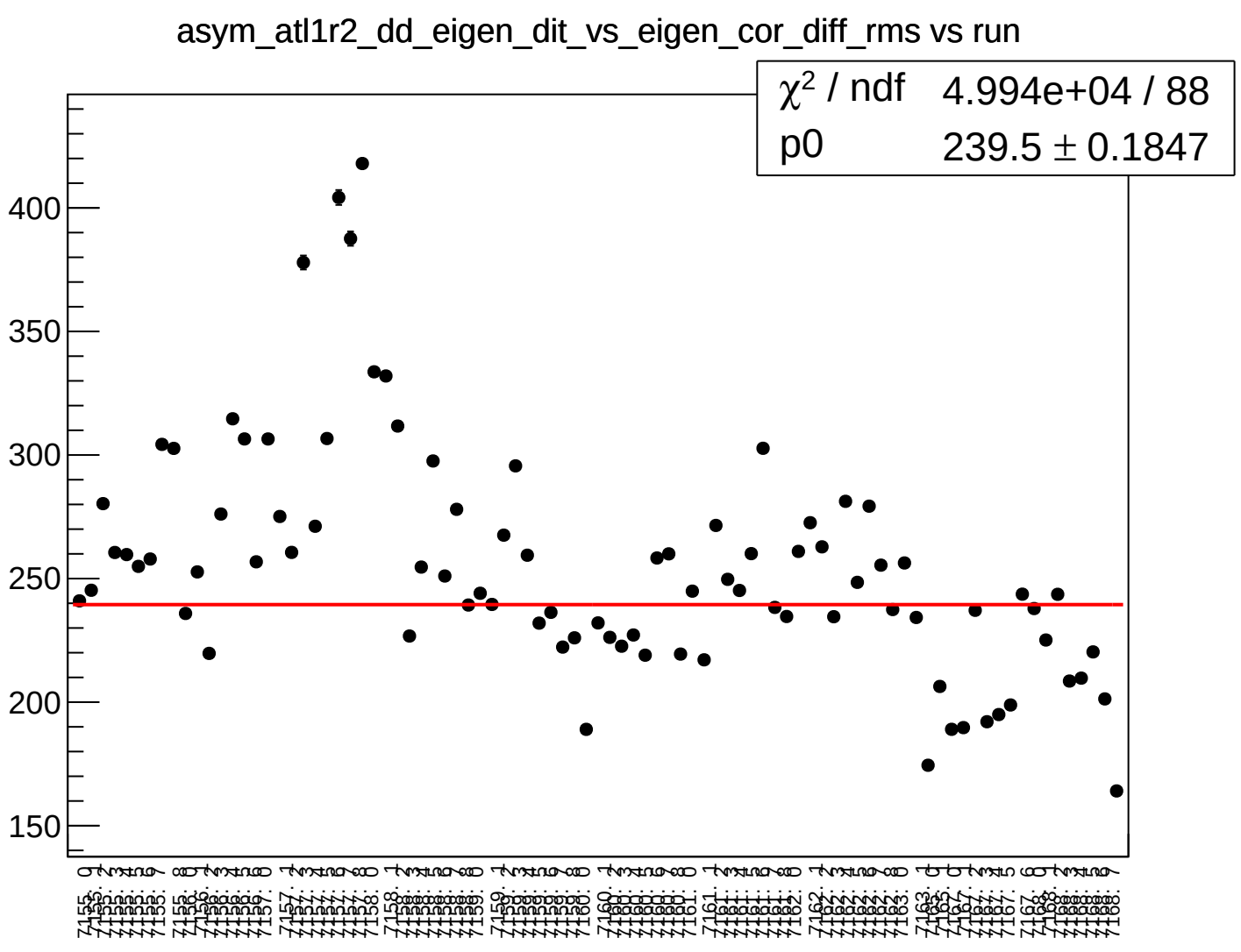

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.21 / 88
p0 −0.2807 ± 0.2613
10
5
0
−5
−10
pull
Entries 89
Mean 522.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

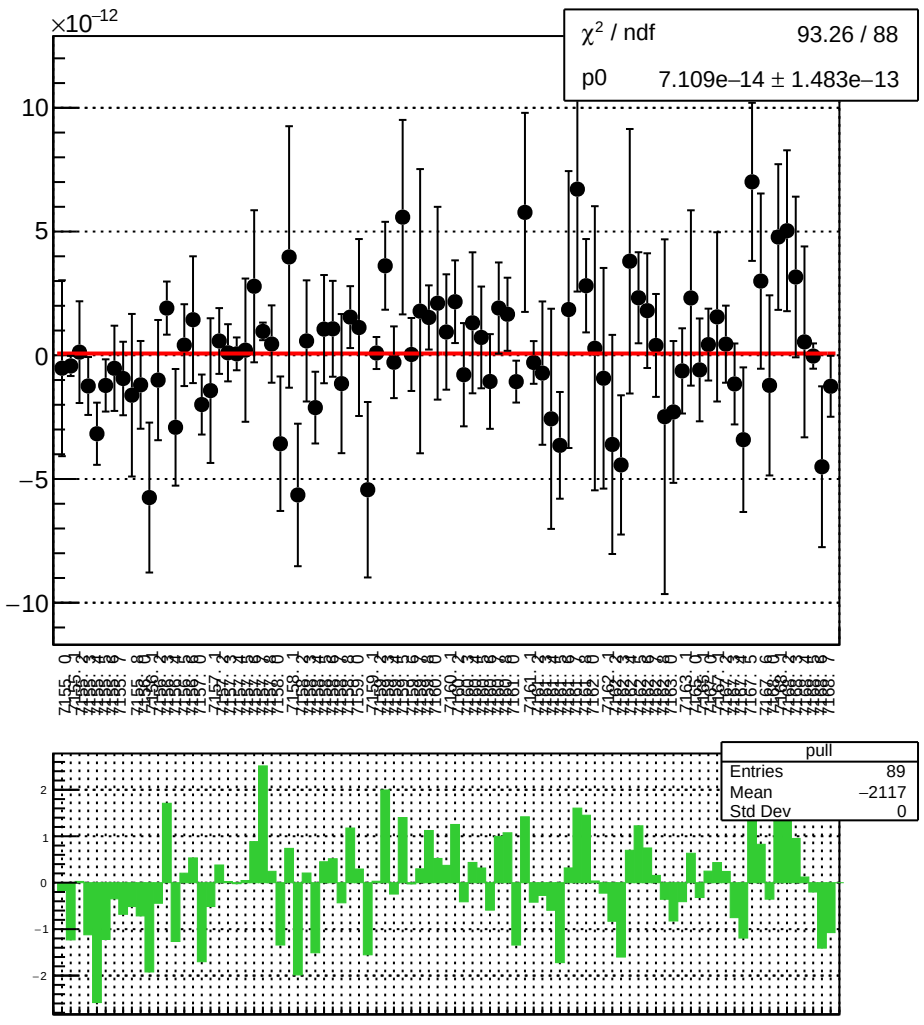

pull1D
Entries 89
Mean −0.005704
Std Dev 0.9069
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

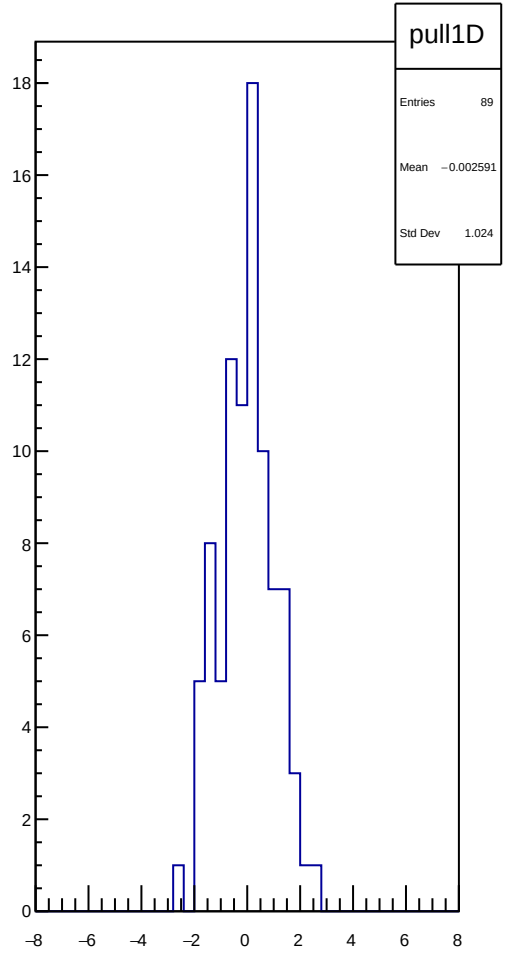

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.994e+04 / 88
p0 239.5 ± 0.1847
400
350
300
250
200
150

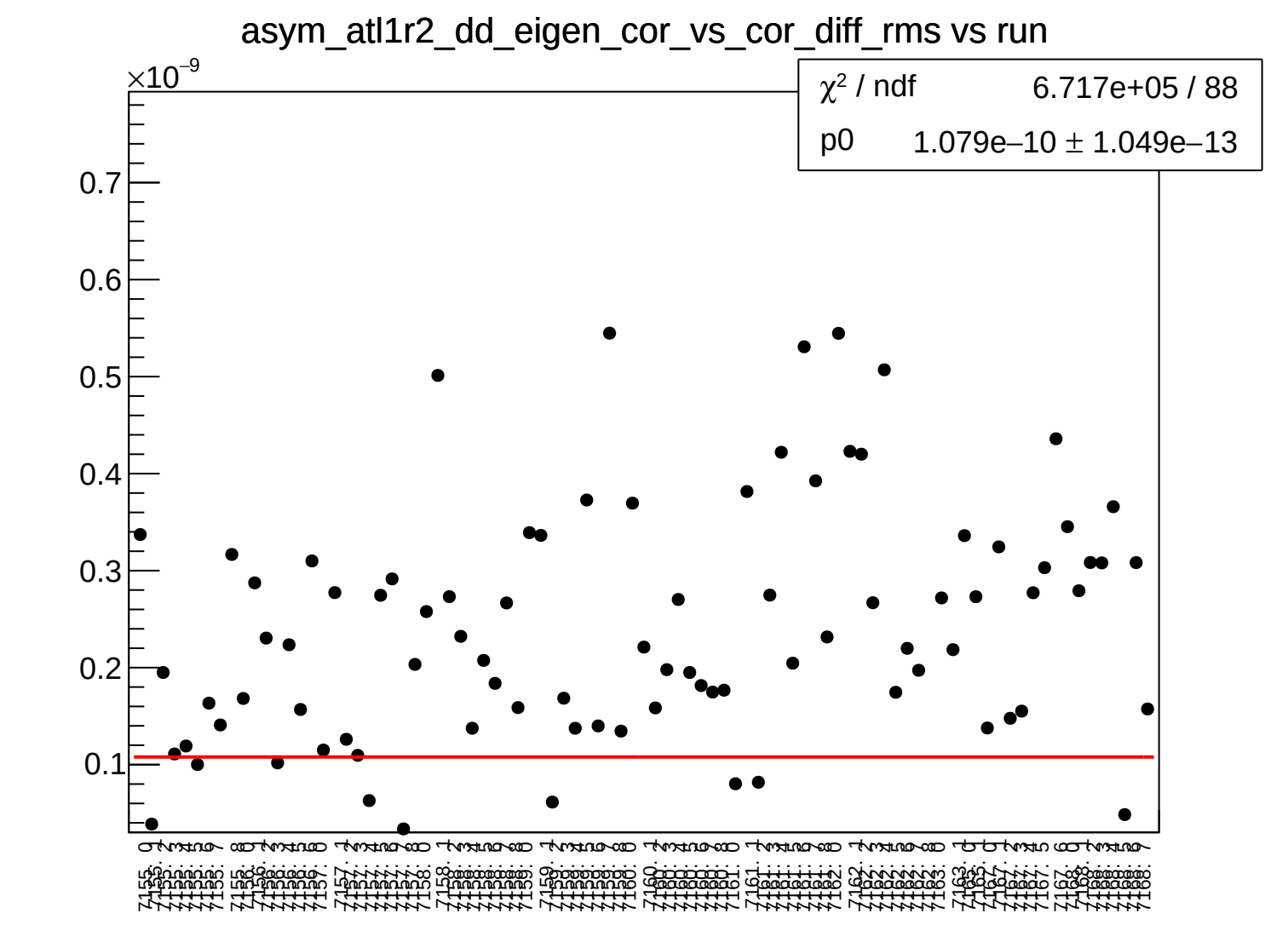

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.21 / 88
p0 −0.2807 ± 0.2613
pull
Entries 89
Mean 522.7
Std Dev 0

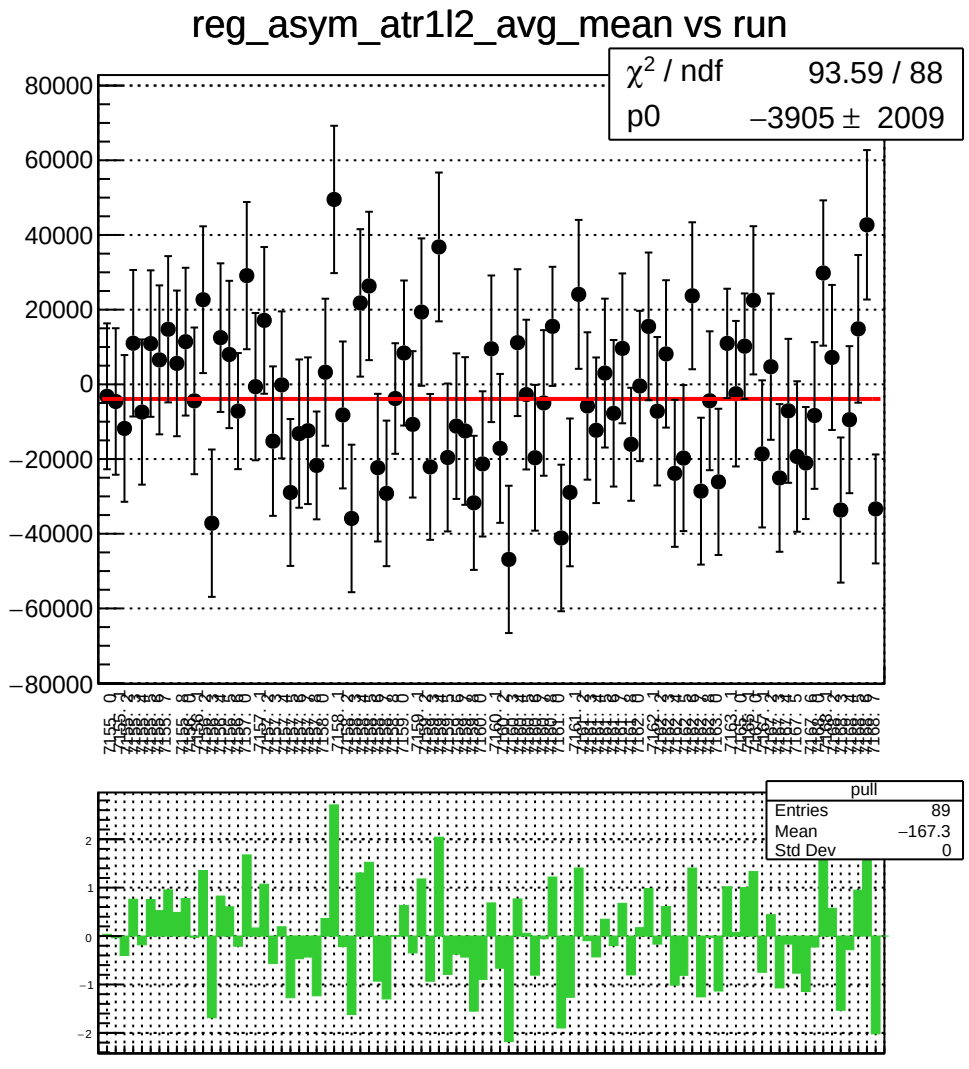

pull1D
Entries 89
Mean −0.005704
Std Dev 0.9069

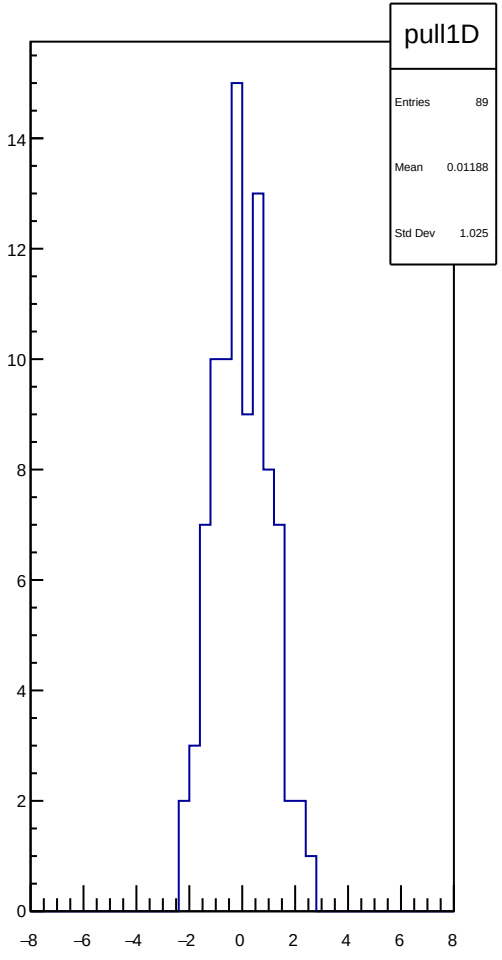

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.994e+04 / 88
p0 239.5 ± 0.1847
400
350
300
250
200
150

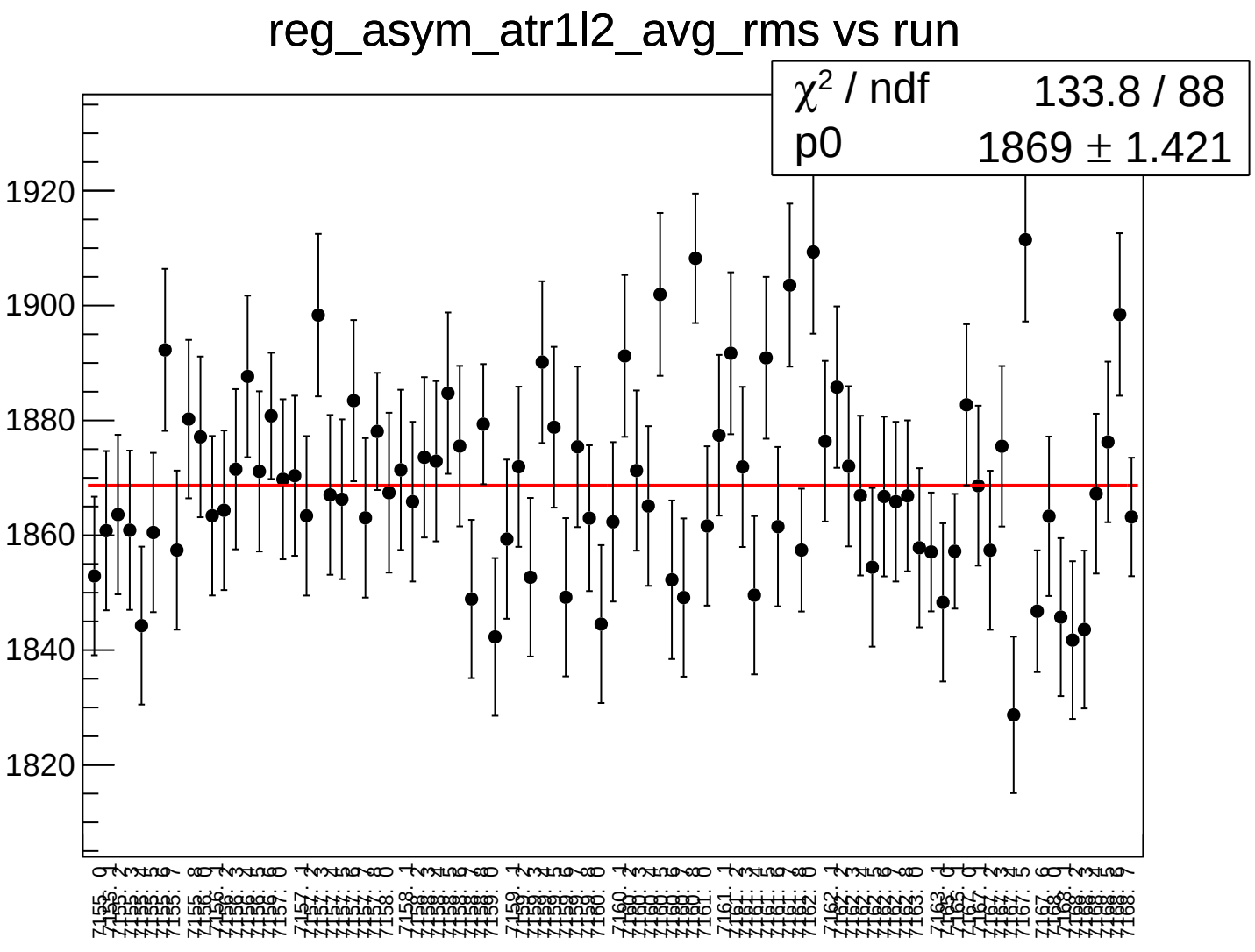

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.26 / 88
p0 7.109e−14 ± 1.483e−13
10
5
0
−5
−10
pull
Entries 89
Mean −2117
Std Dev 0
2
1
0
−1
−2

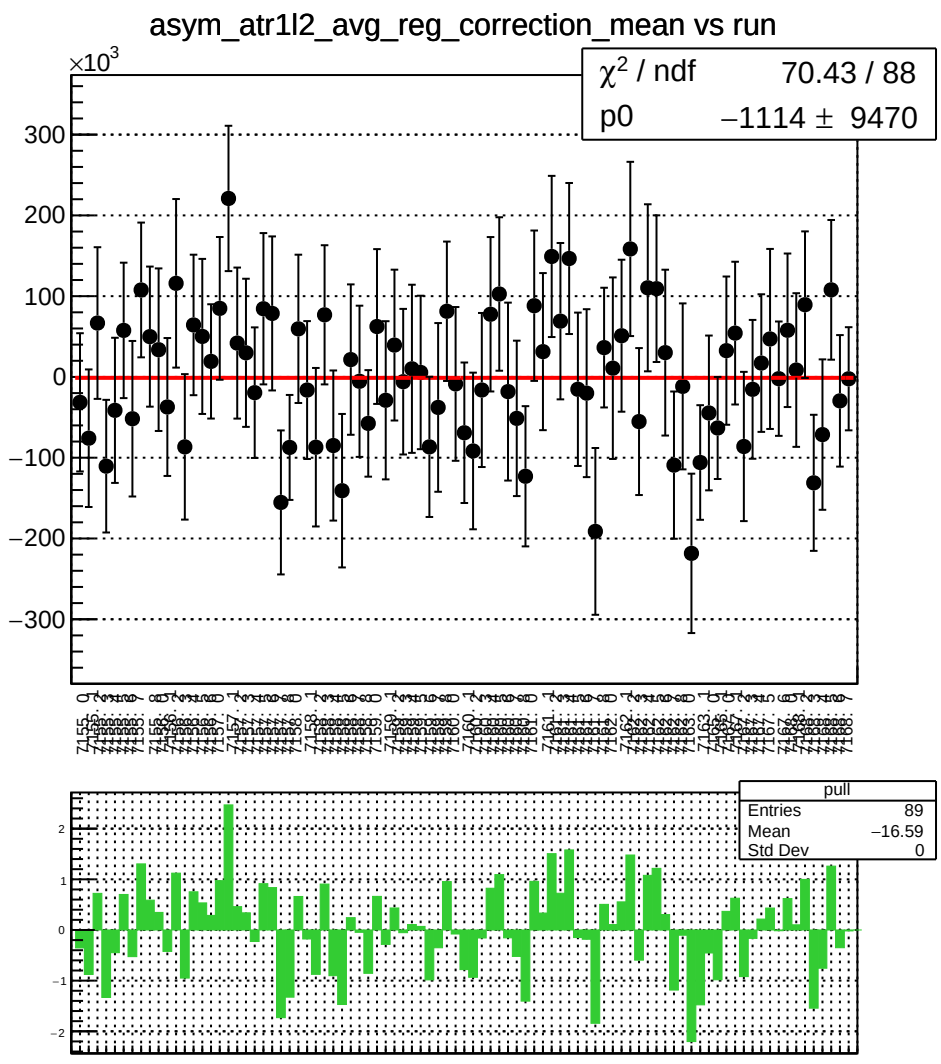

pull1D
Entries 89
Mean −0.002591
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

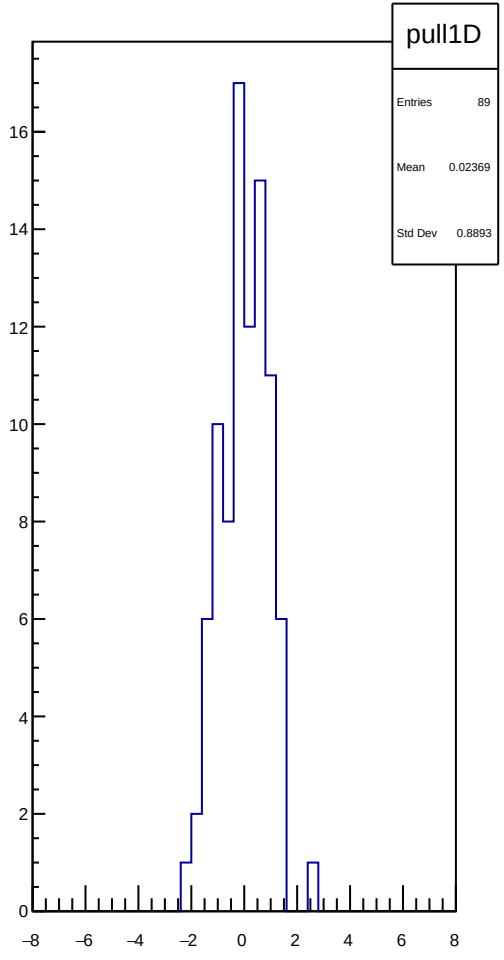

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.717e+05 / 88
p0 1.079e−10 ± 1.049e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

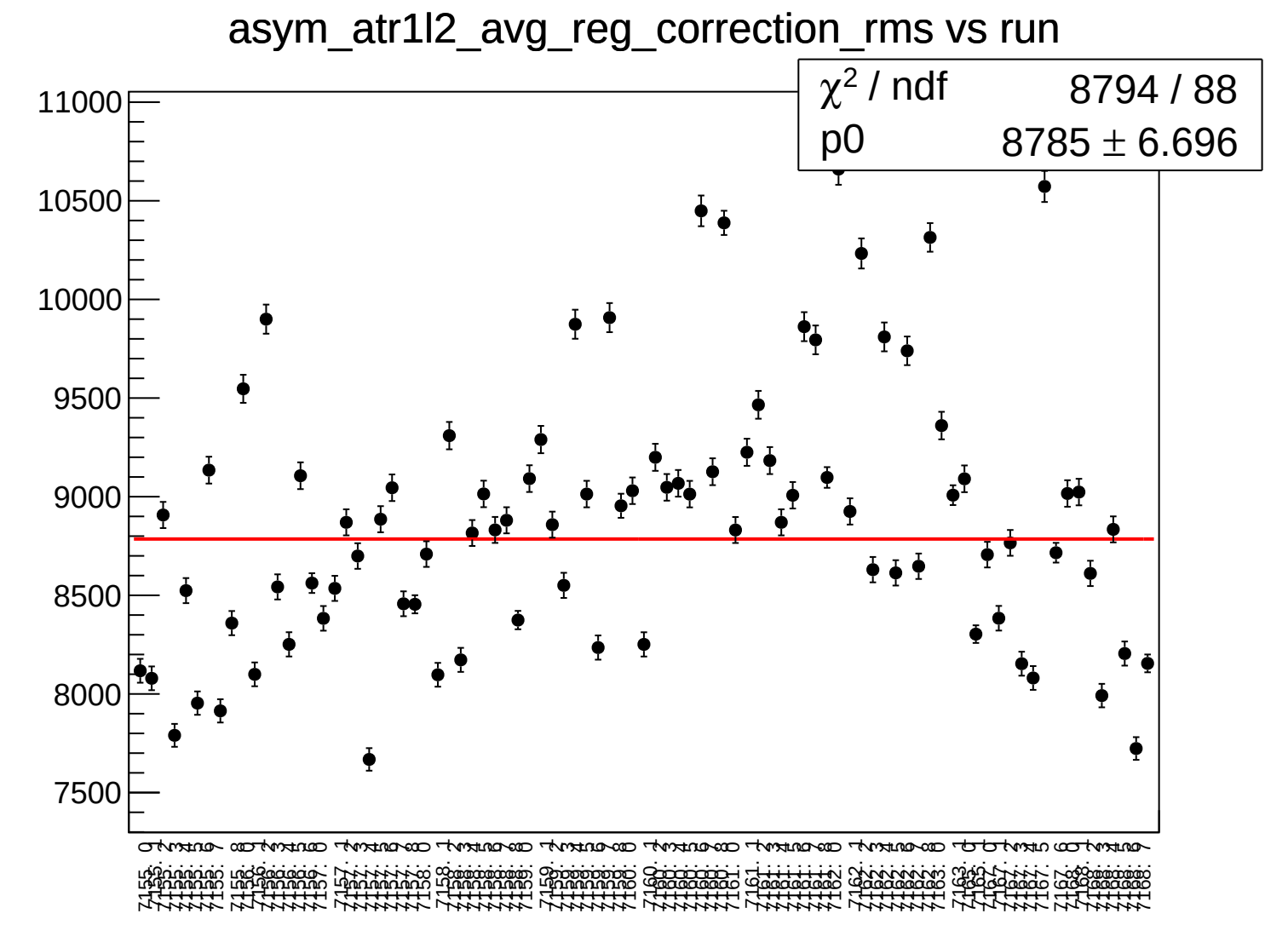

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 93.59 / 88
p0 −3905 ± 2009
pull
Entries 89
Mean −167.3
Std Dev 0

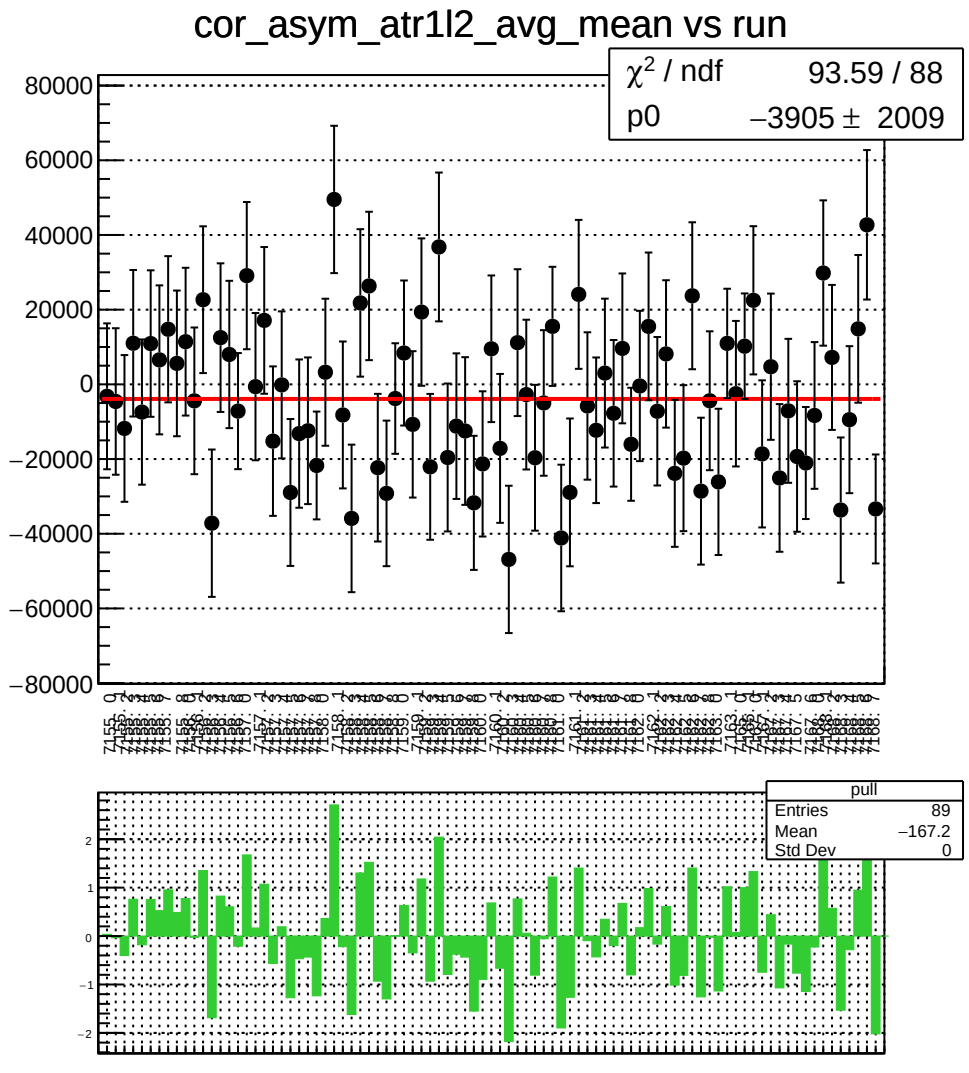

pull1D
Entries 89
Mean 0.01188
Std Dev 1.025

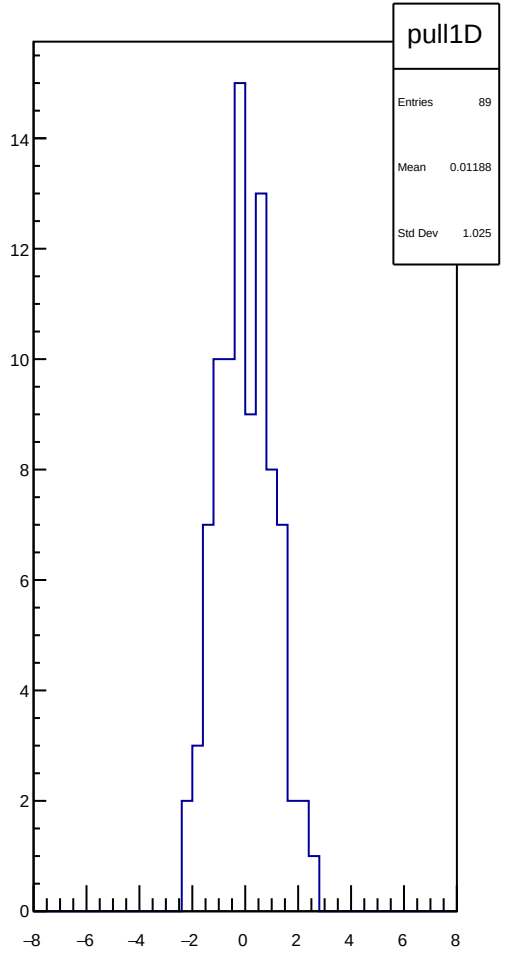

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 133.8 / 88
p0 1869 ± 1.421
1920
1900
1880
1860
1840
1820

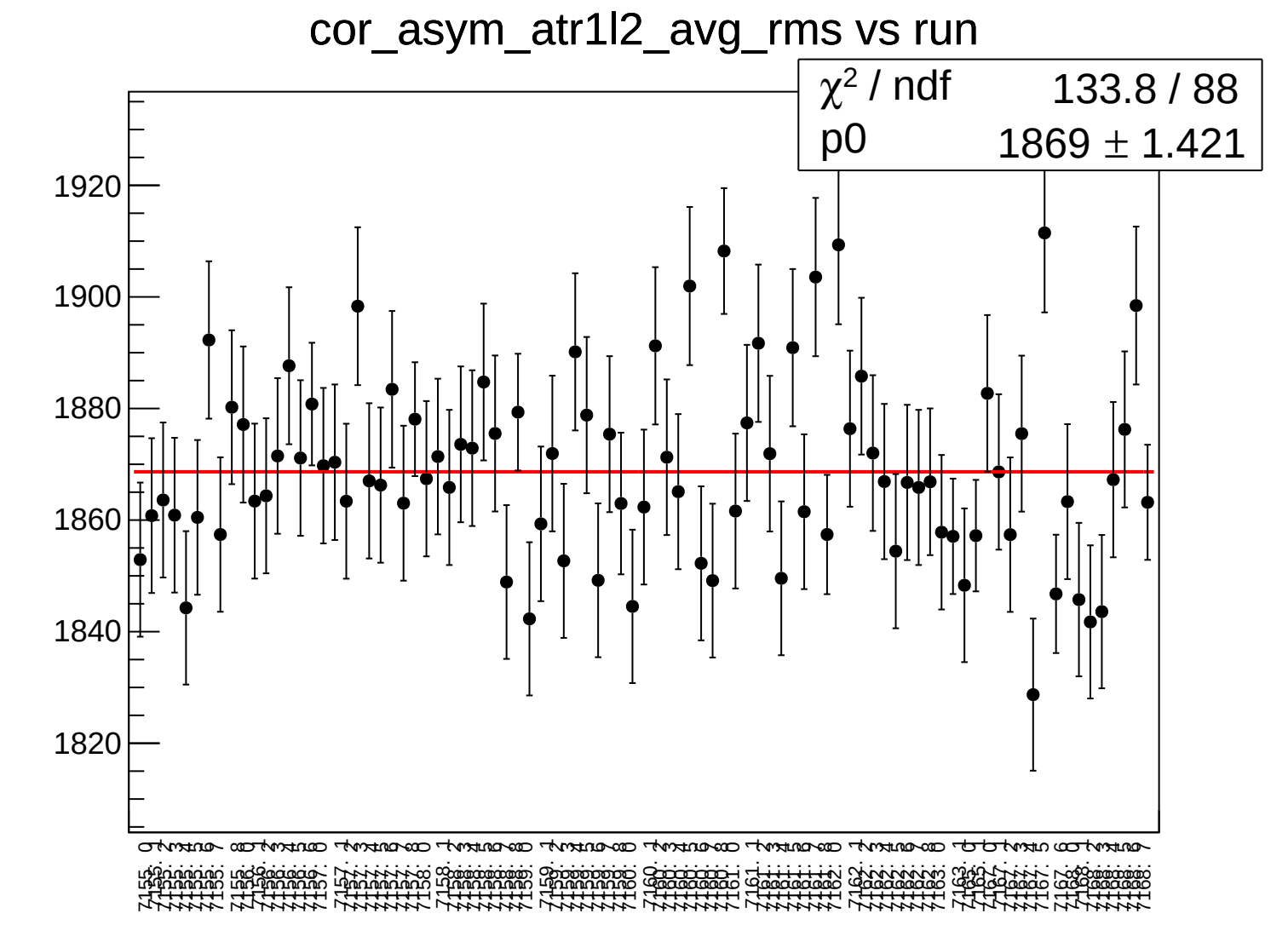

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.43 / 88
p0 −1114 ± 9470
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −16.59
Std Dev 0
2
1
0
−1
−2

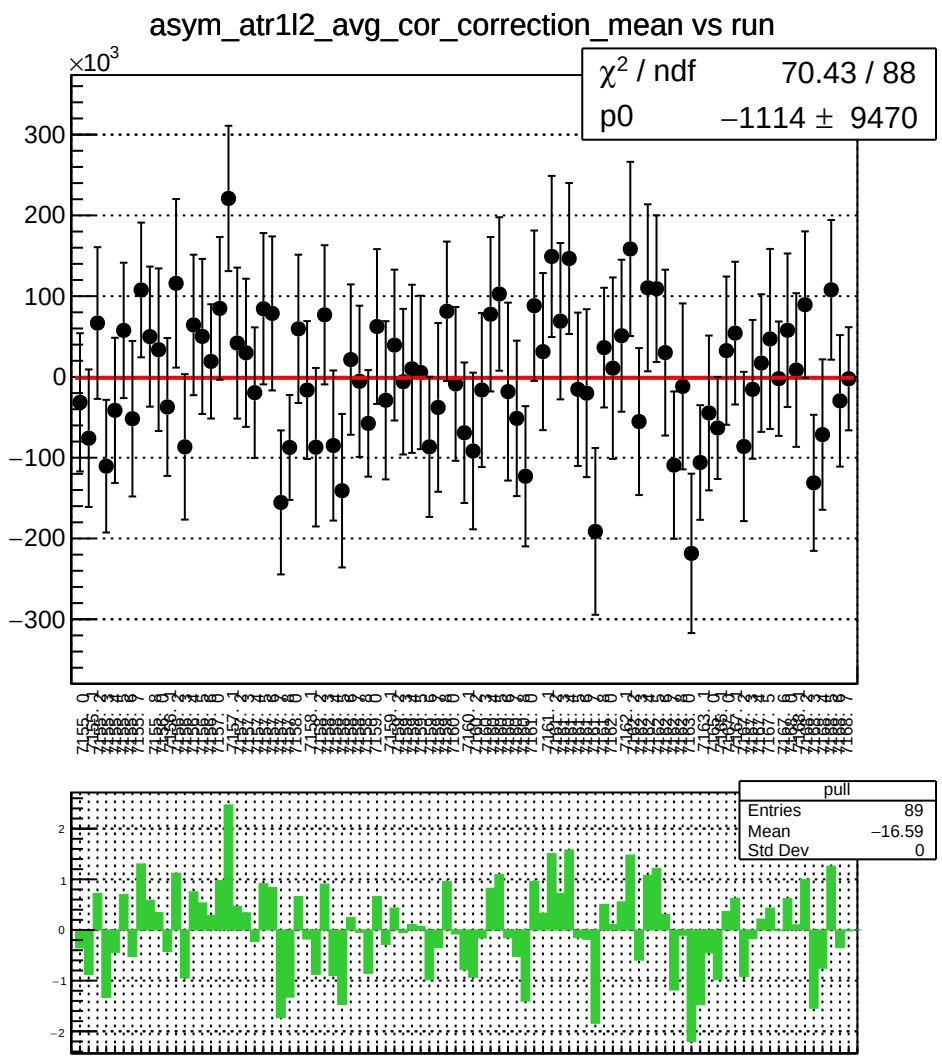

pull1D
Entries 89
Mean 0.02369
Std Dev 0.8893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

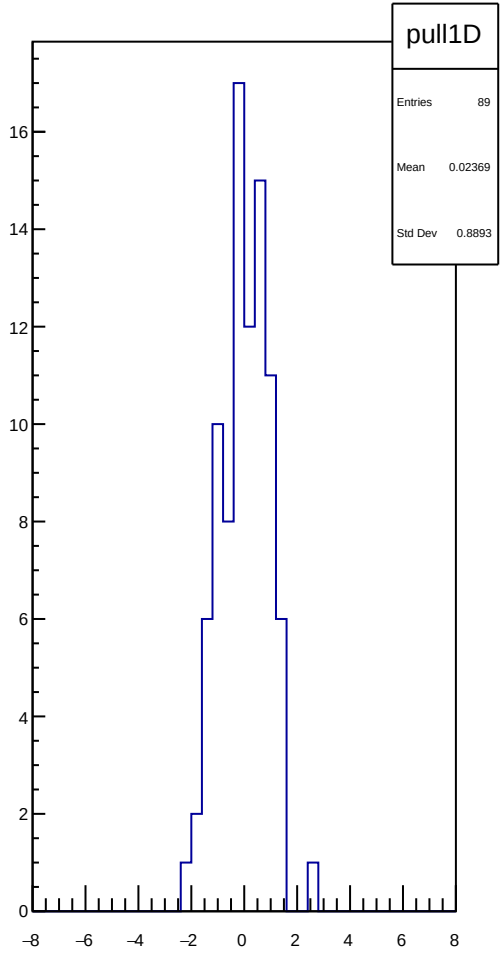

asym_atr1l2_avg_reg_correction_rms vs run
χ^2 / ndf 8794 / 88
p0 8785 ± 6.696
11000
10500
10000
9500
9000
8500
8000
7500

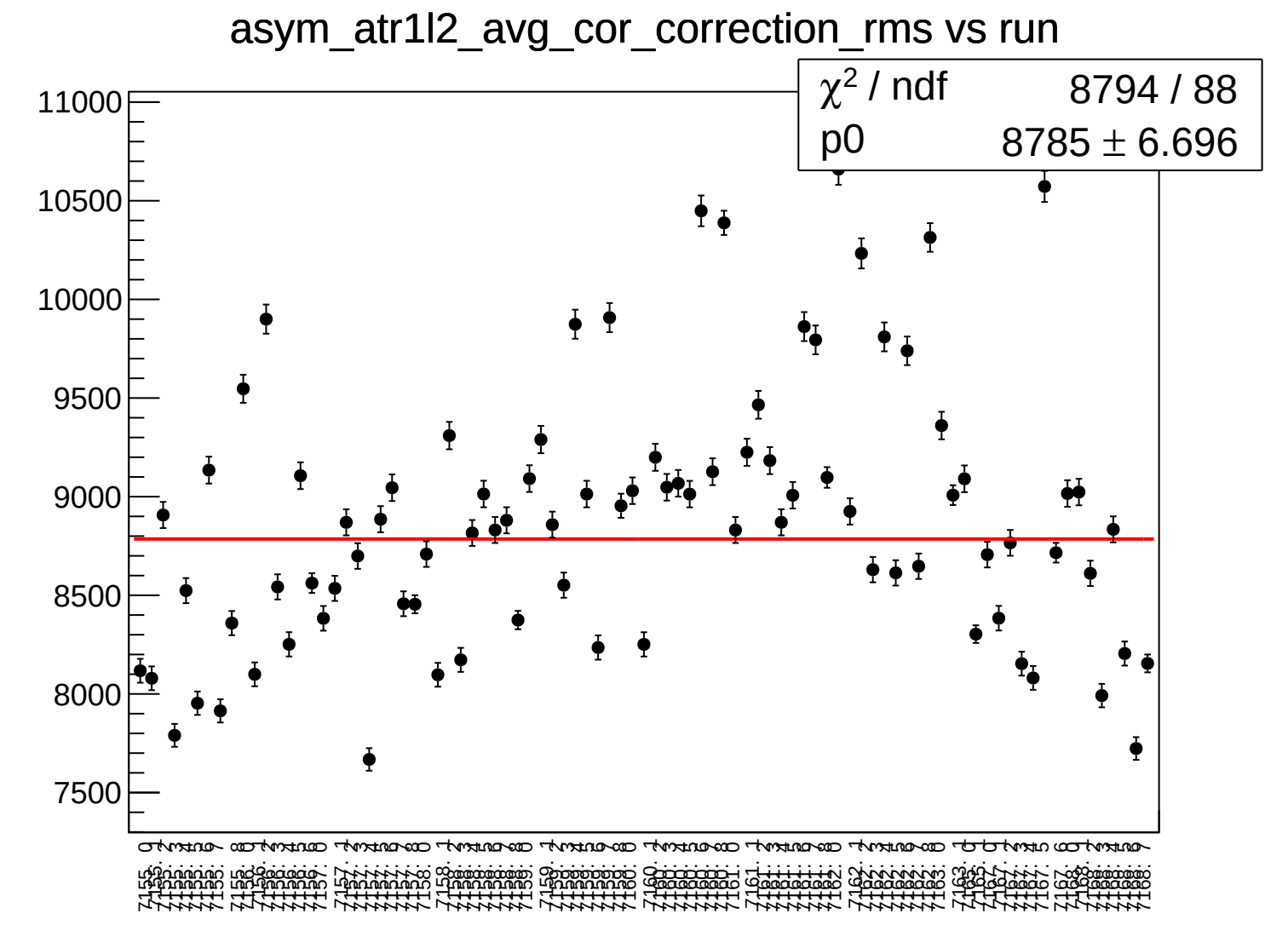

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.59 / 88
p0 −3905 ± 2009
pull
Entries 89
Mean −167.2
Std Dev 0

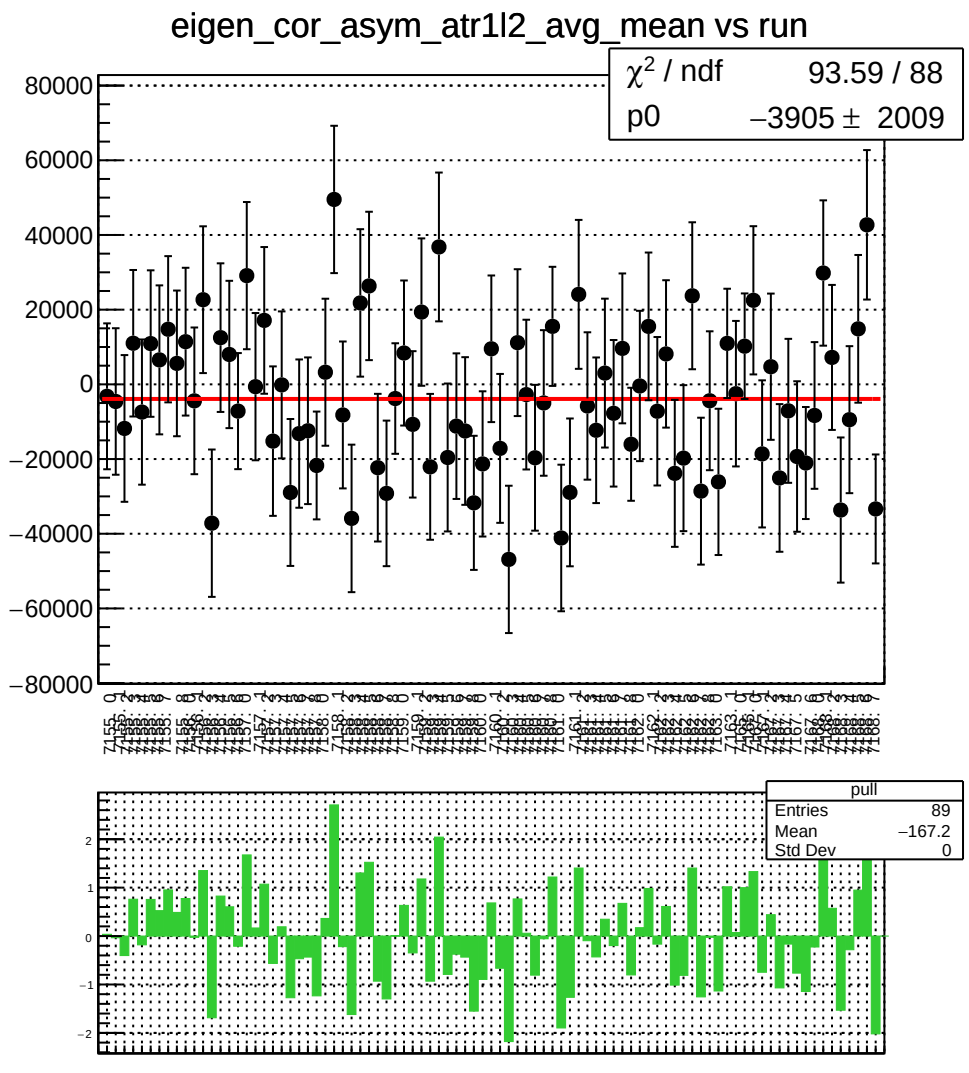

pull1D
Entries 89
Mean 0.01188
Std Dev 1.025

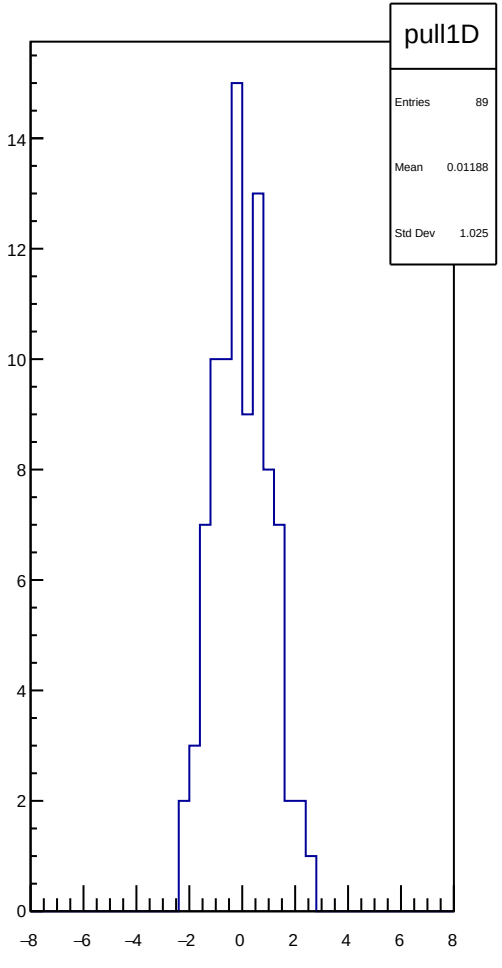

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 133.8 / 88
p0 1869 ± 1.421
1920
1900
1880
1860
1840
1820

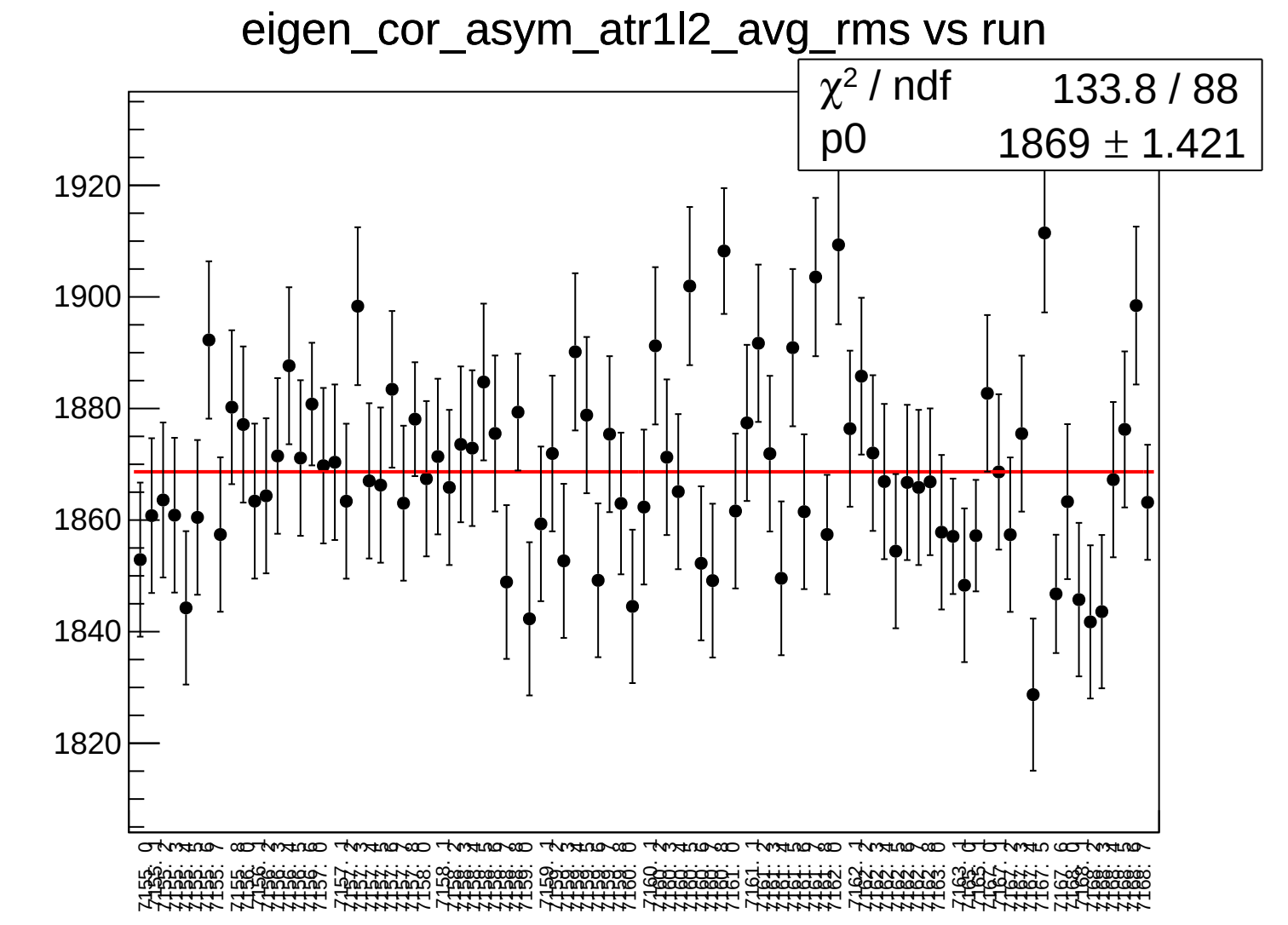

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.43 / 88
p0 −1114 ± 9470
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −16.59
Std Dev 0
2
1
0
−1
−2

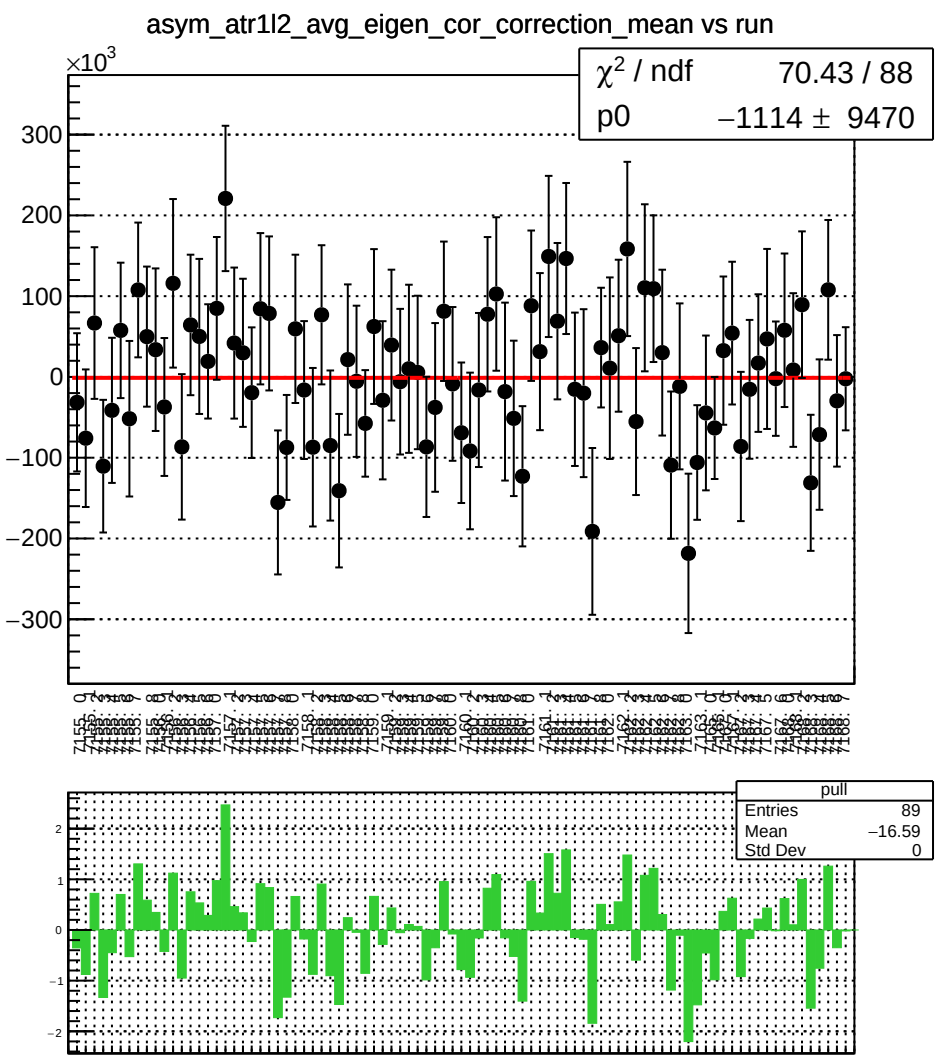

pull1D
Entries 89
Mean 0.02369
Std Dev 0.8893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

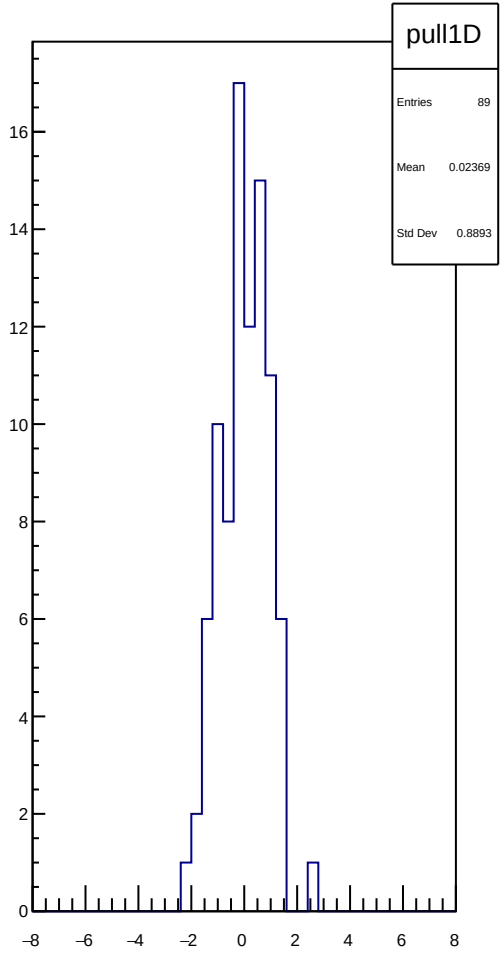

asym_atr1l2_avg_cor_correction_rms vs run
χ^2 / ndf 8794 / 88
p0 8785 ± 6.696
11000
10500
10000
9500
9000
8500
8000
7500

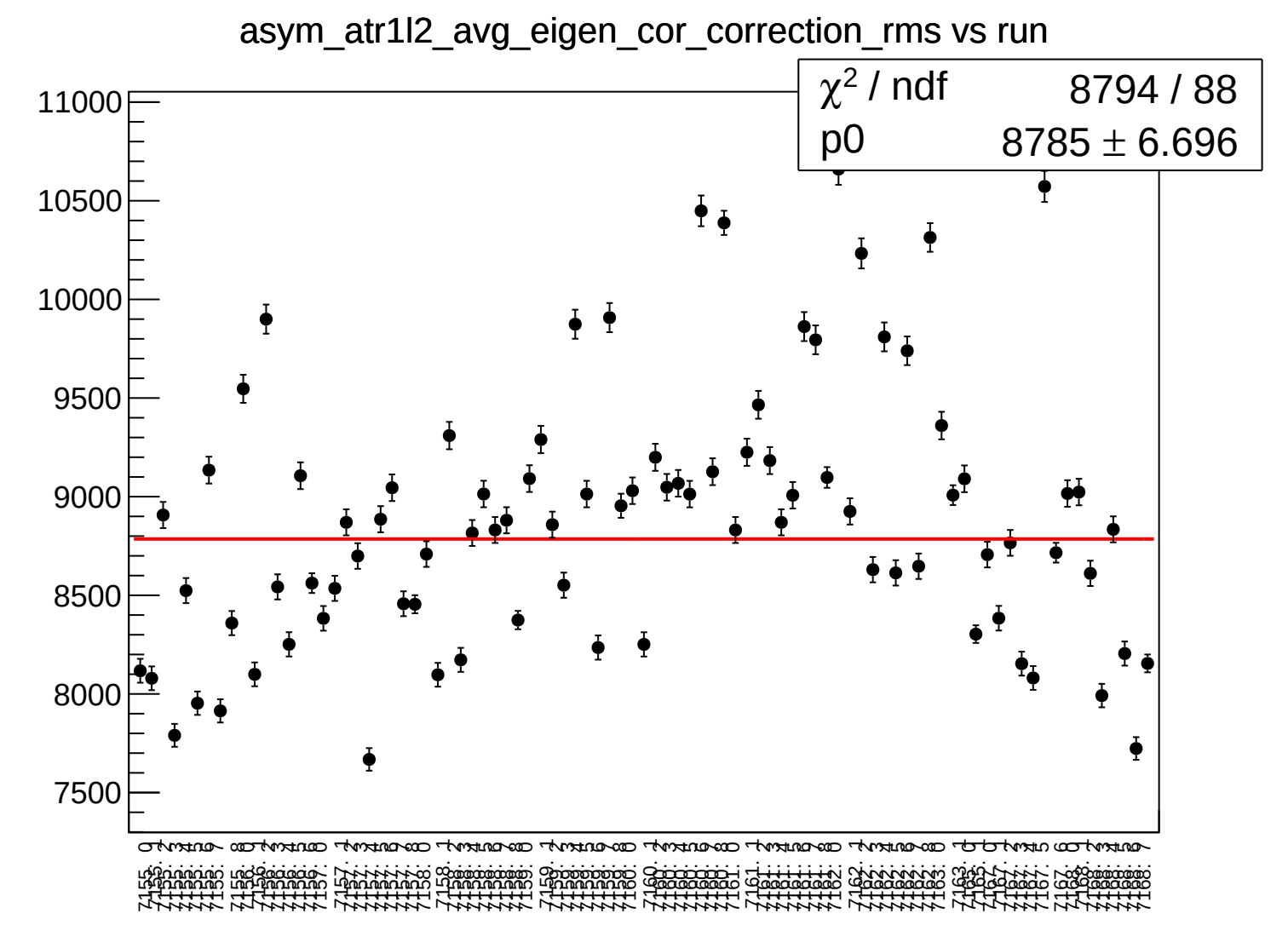

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 93.59 / 88
p0 −3905 ± 2009
pull
Entries 89
Mean −167.2
Std Dev 0

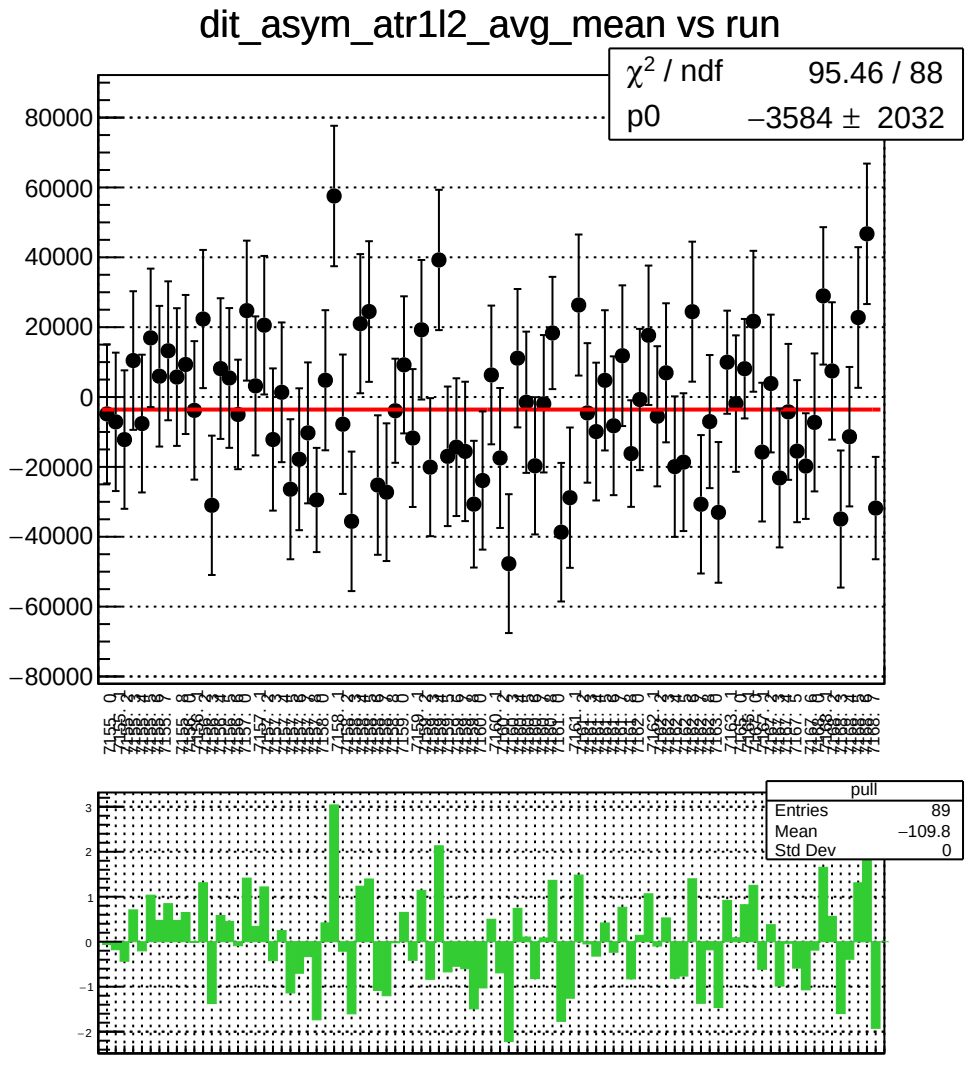

pull1D
Entries 89
Mean 0.01188
Std Dev 1.025

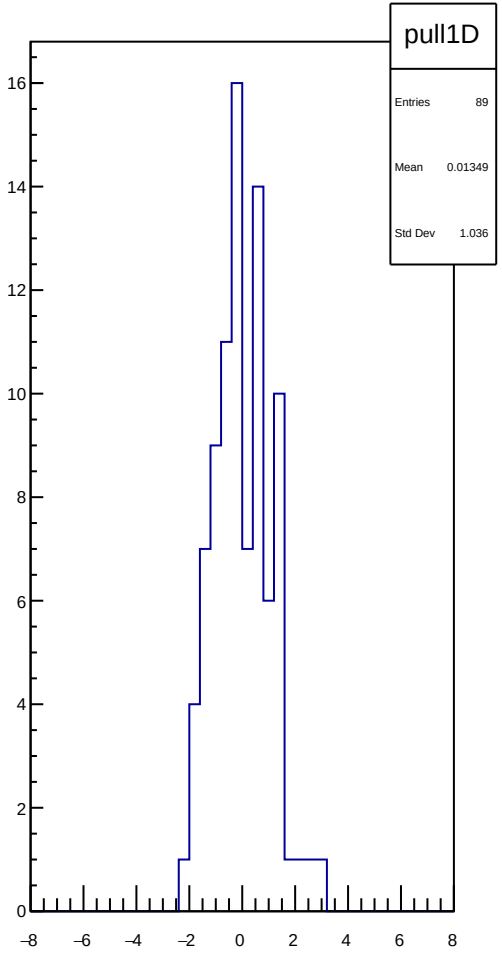

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 133.8 / 88
p0 1869 ± 1.421
1920
1900
1880
1860
1840
1820

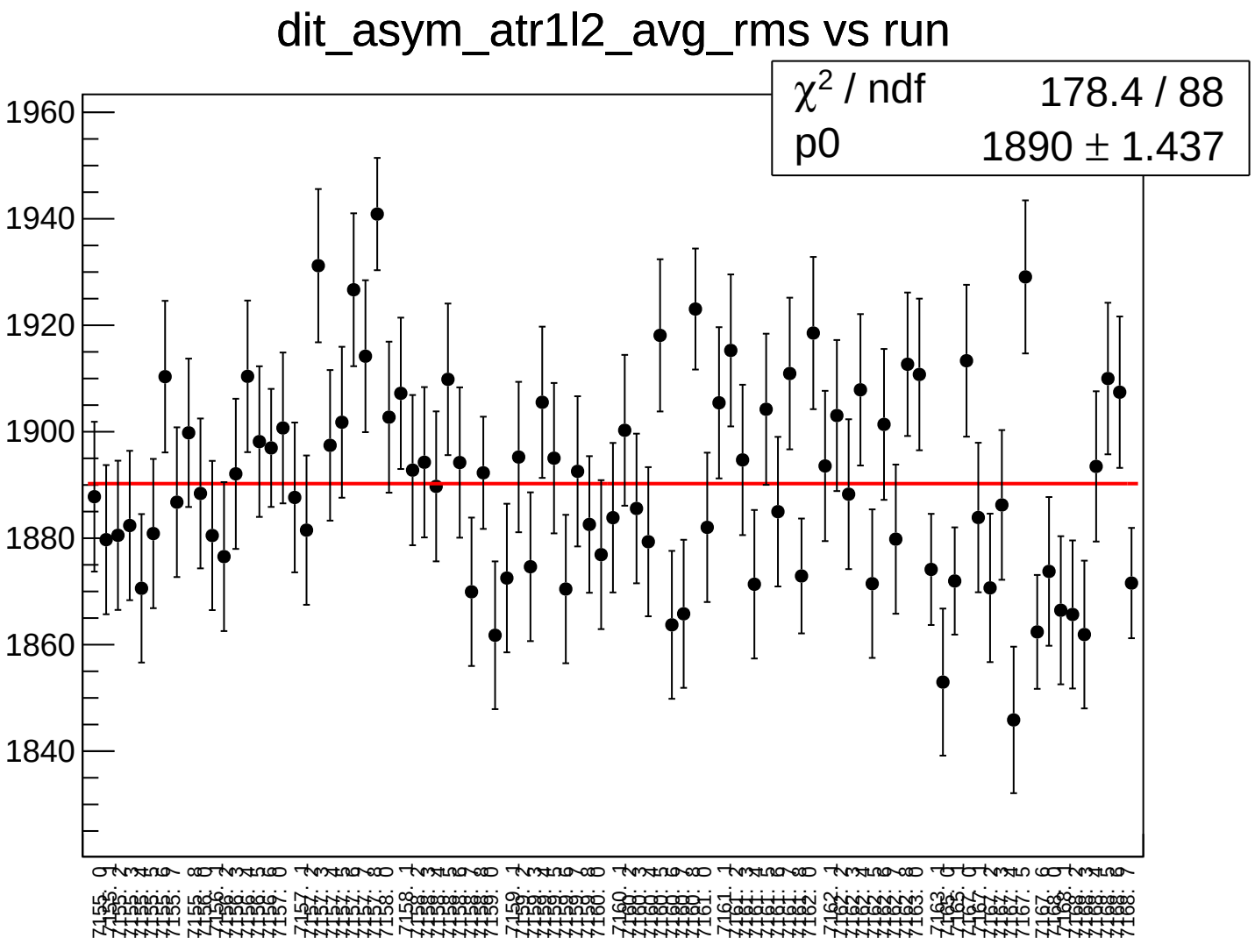

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.43 / 88
p0 −1114 ± 9470
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −16.59
Std Dev 0
2
1
0
−1
−2

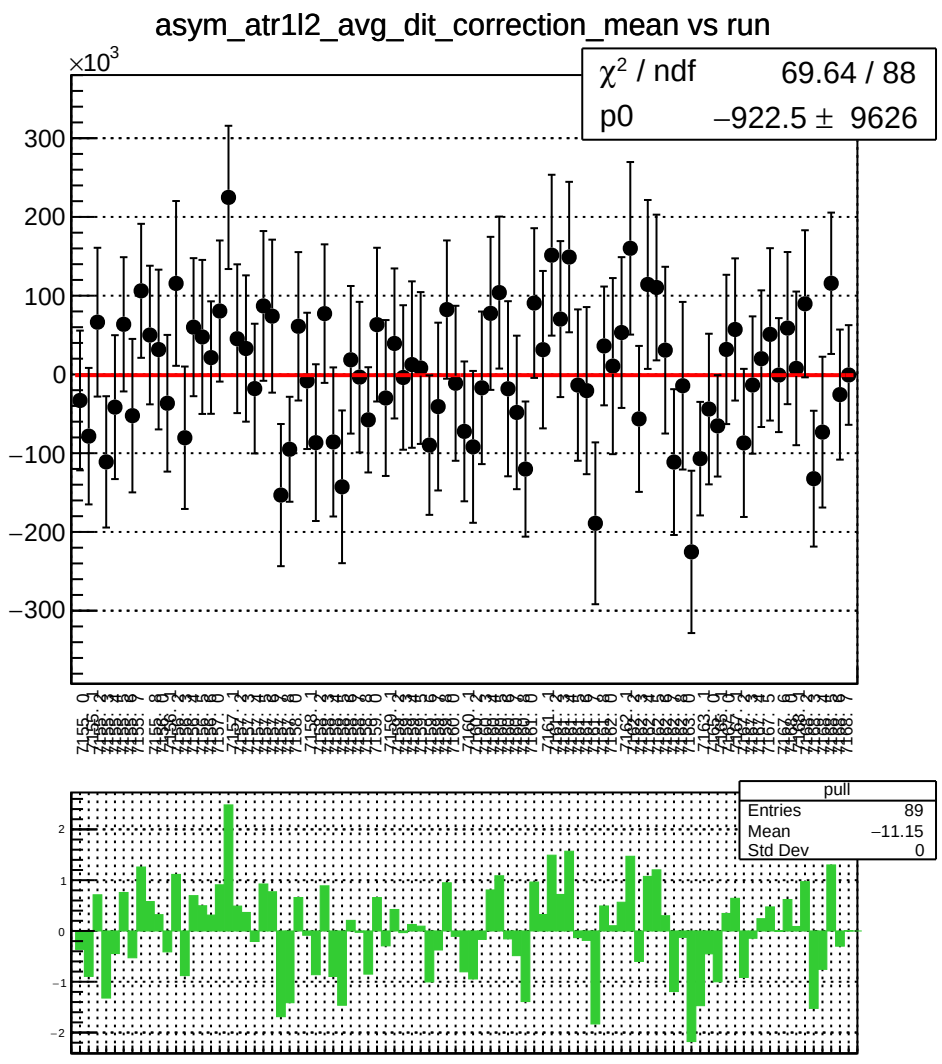

pull1D
Entries 89
Mean 0.02369
Std Dev 0.8893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

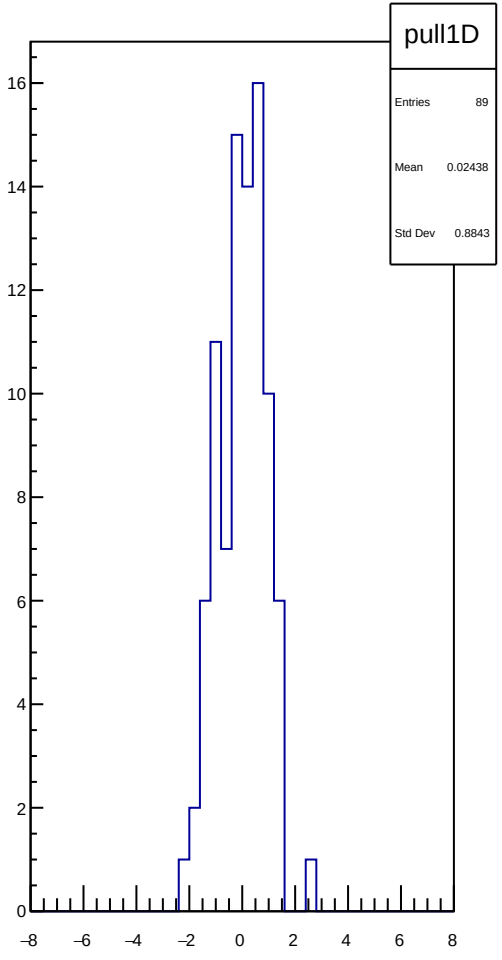

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 8794 / 88
p0 8785 ± 6.696
11000
10500
10000
9500
9000
8500
8000
7500

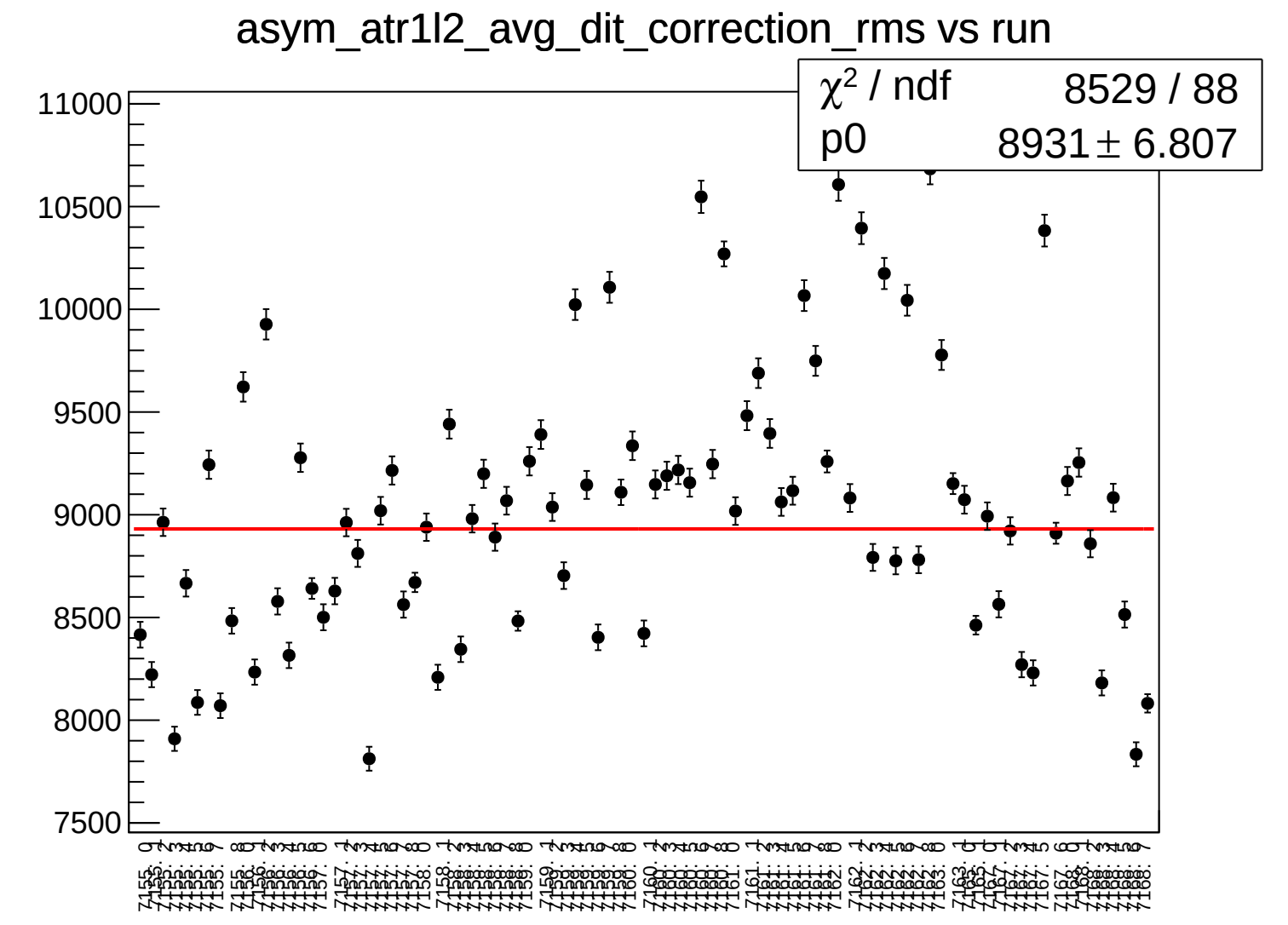

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.46 / 88
p0 −3584 ± 2032
pull
Entries 89
Mean −109.8
Std Dev 0

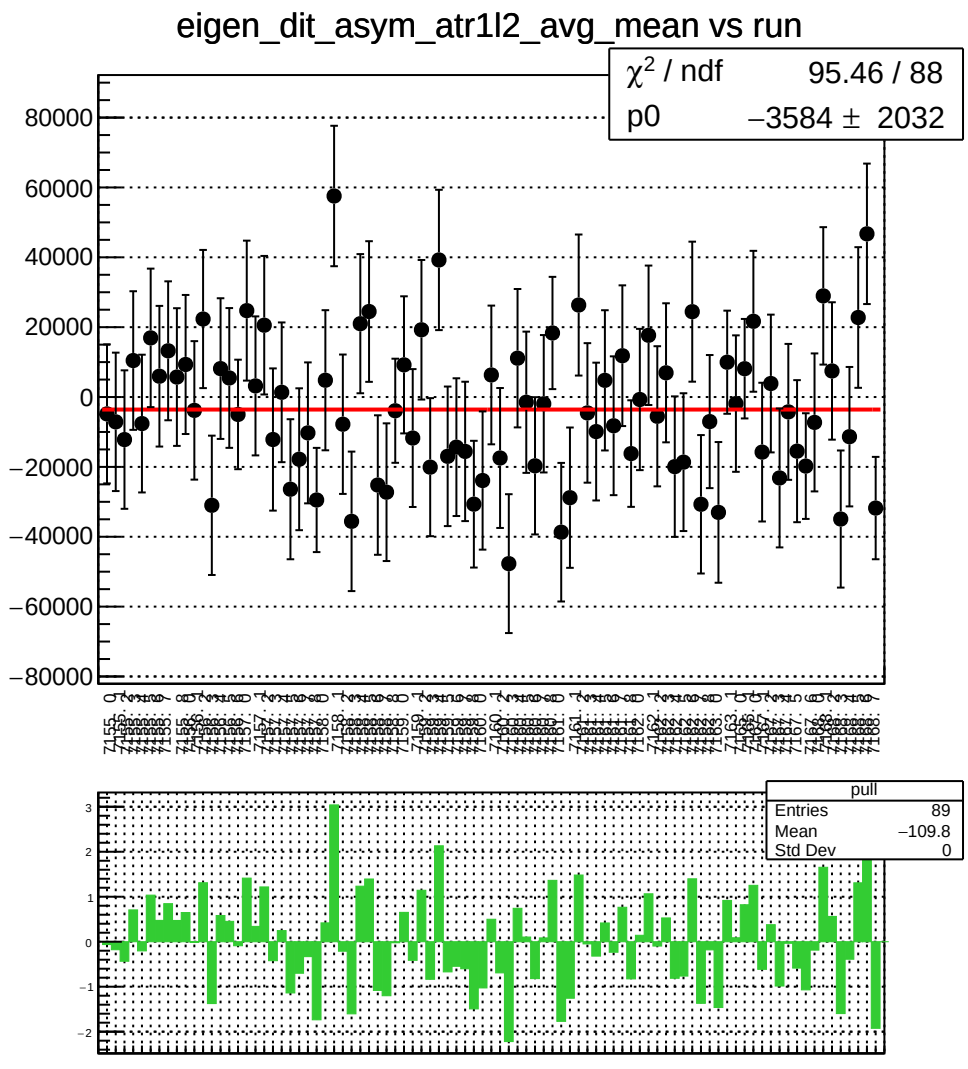

pull1D
Entries 89
Mean 0.01349
Std Dev 1.036

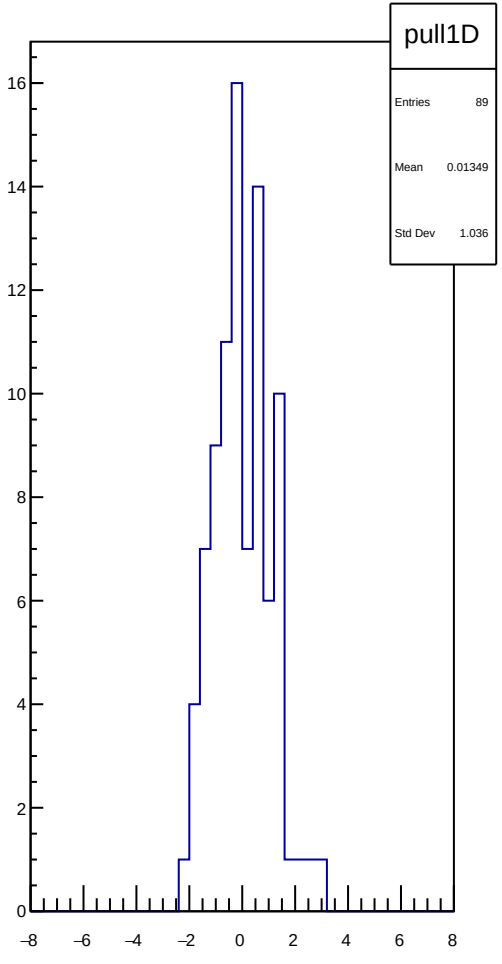

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 178.4 / 88
p0 1890 ± 1.437
1960
1940
1920
1900
1880
1860
1840

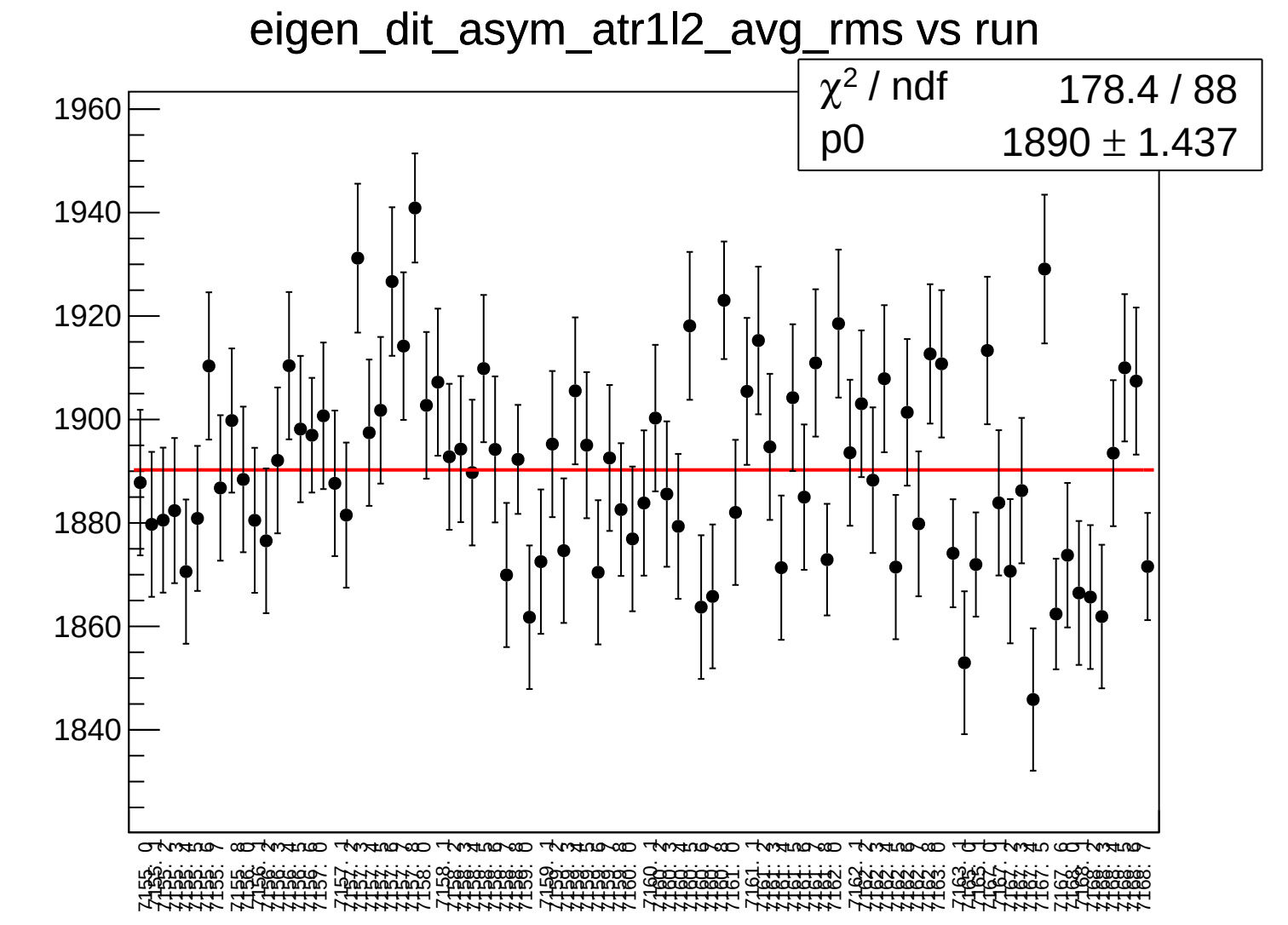

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.64 / 88
p0 −922.5 ± 9626
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −11.15
Std Dev 0
2
1
0
−1
−2

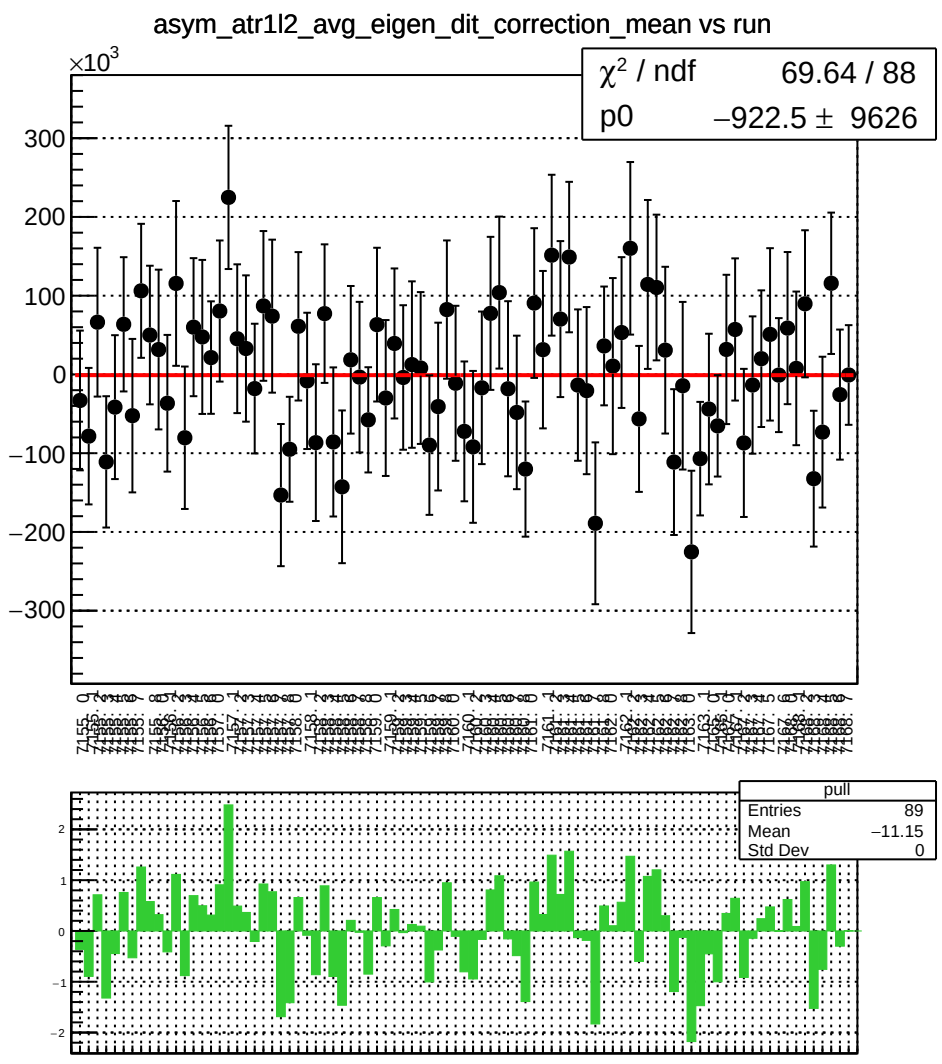

pull1D
Entries 89
Mean 0.02438
Std Dev 0.8843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

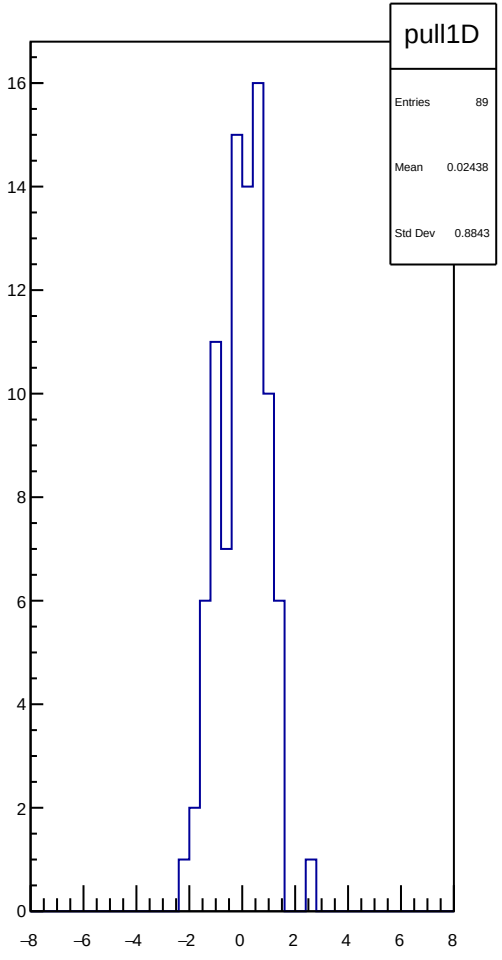

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 8529 / 88
p0 8931 ± 6.807
11000
10500
10000
9500
9000
8500
8000
7500

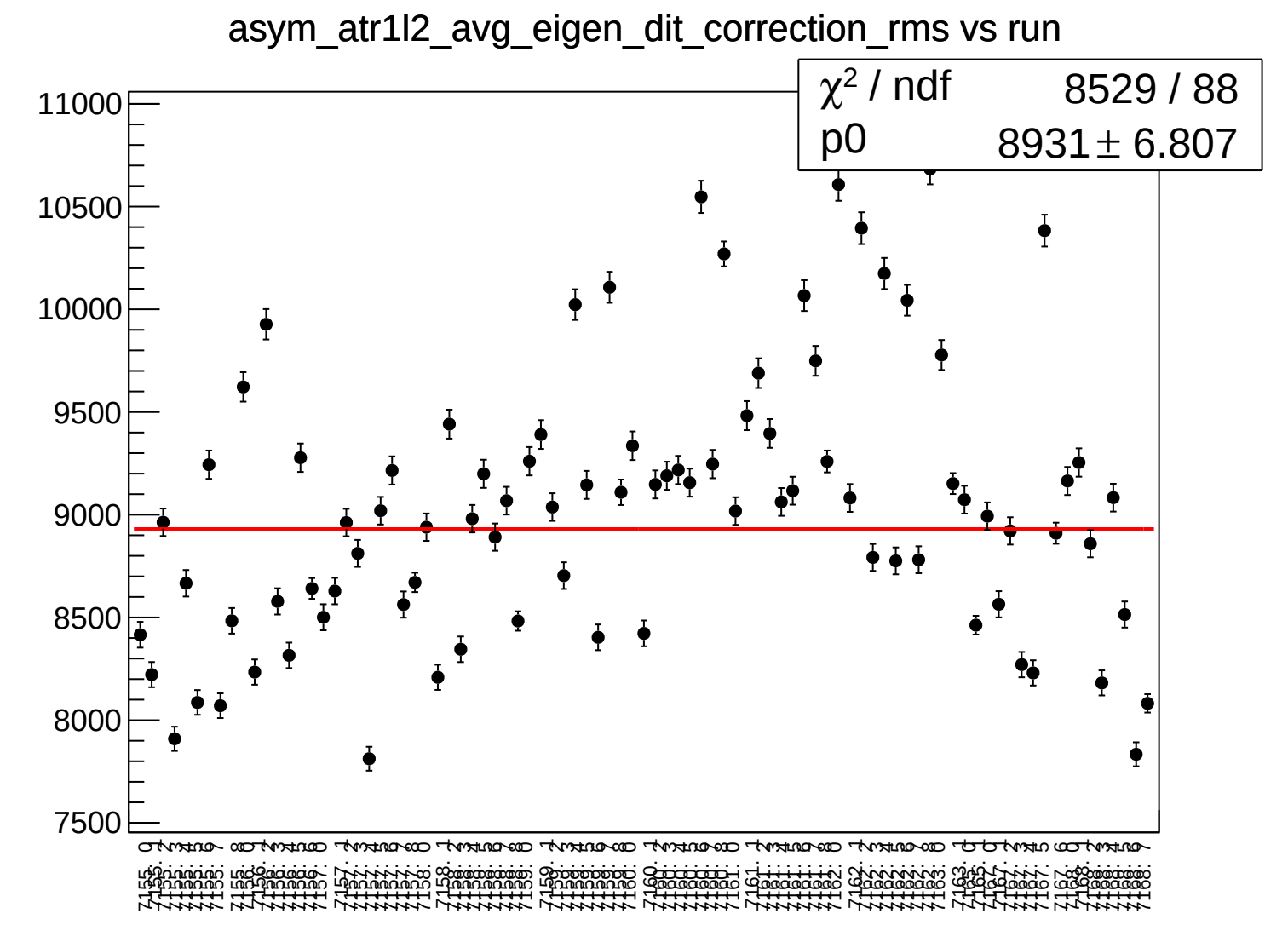

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 95.46 / 88
p0 −3584 ± 2032
pull
Entries 89
Mean −109.8
Std Dev 0

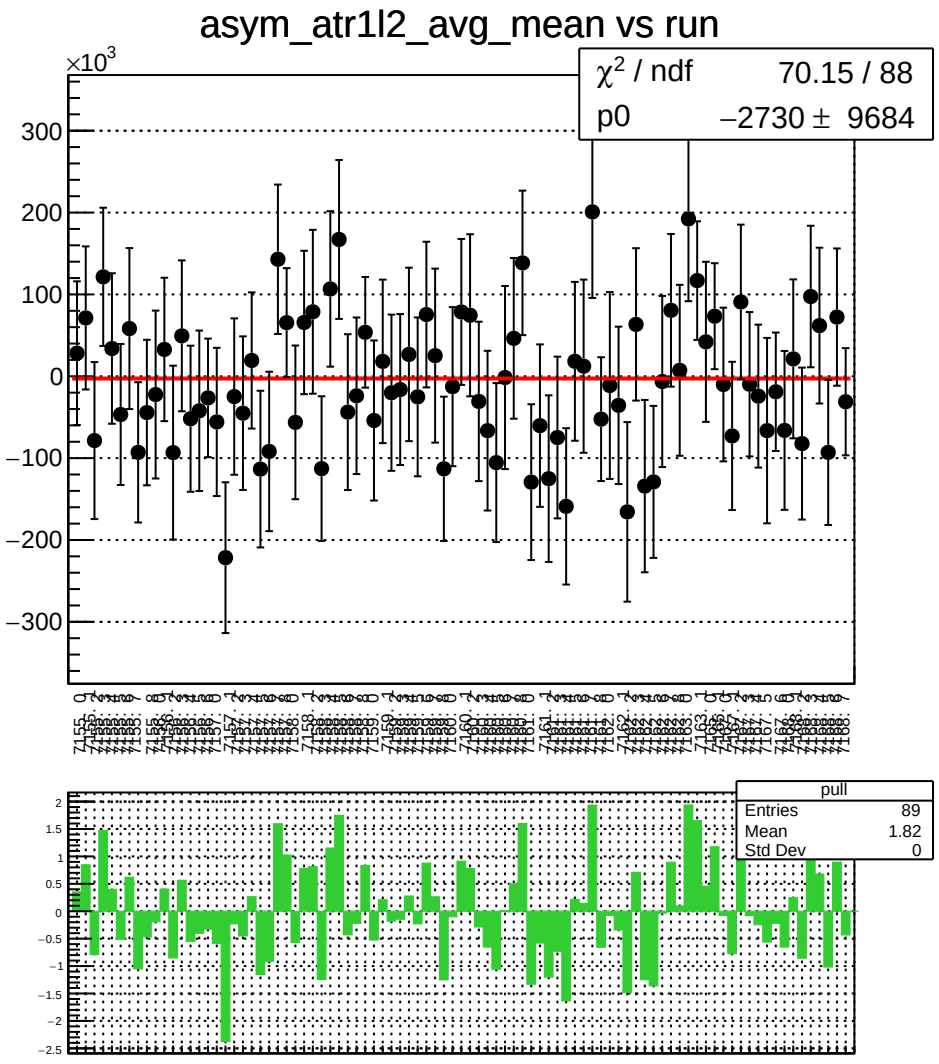

pull1D
Entries 89
Mean 0.01349
Std Dev 1.036

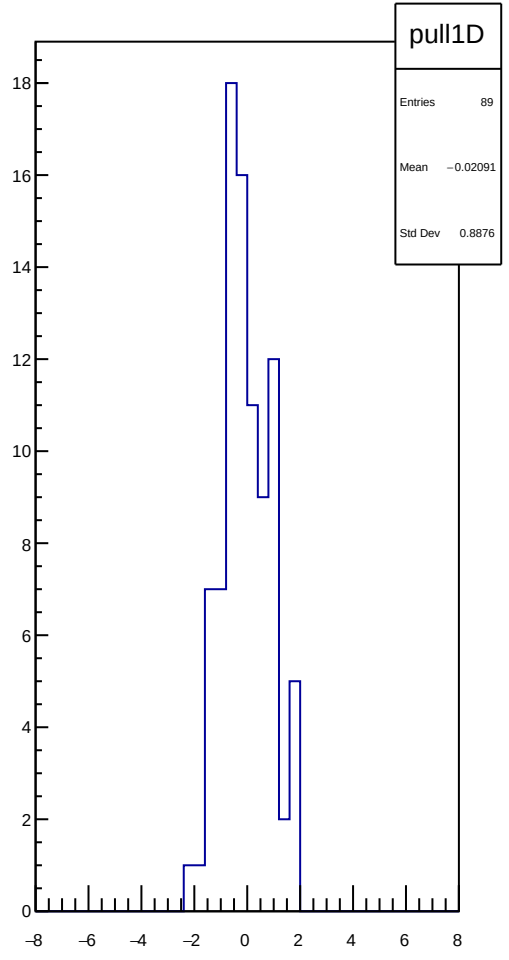

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 178.4 / 88
p0 1890 ± 1.437
1960
1940
1920
1900
1880
1860
1840

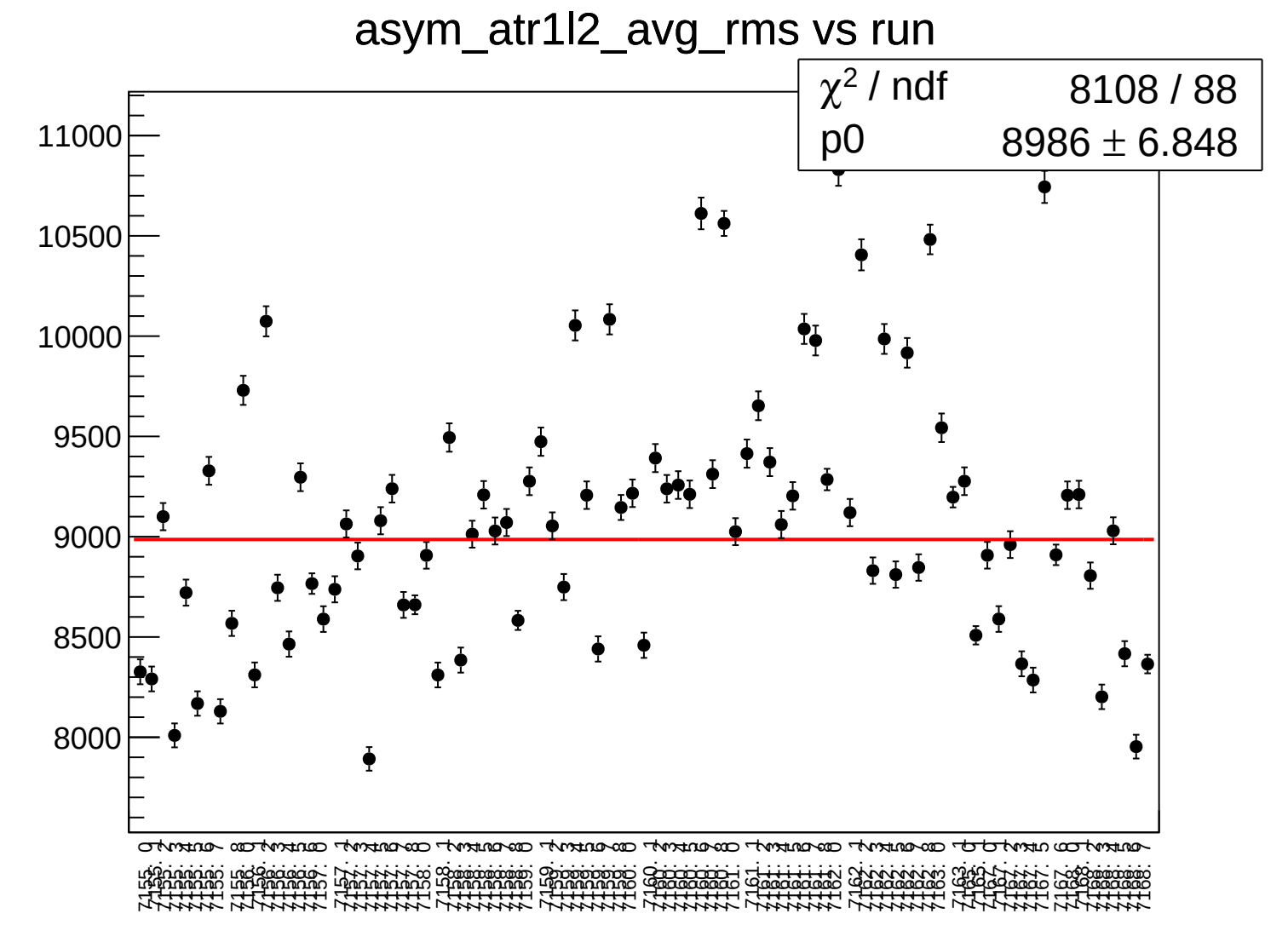

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.64 / 88
p0 −922.5 ± 9626
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −11.15
Std Dev 0
2
1
0
−1
−2

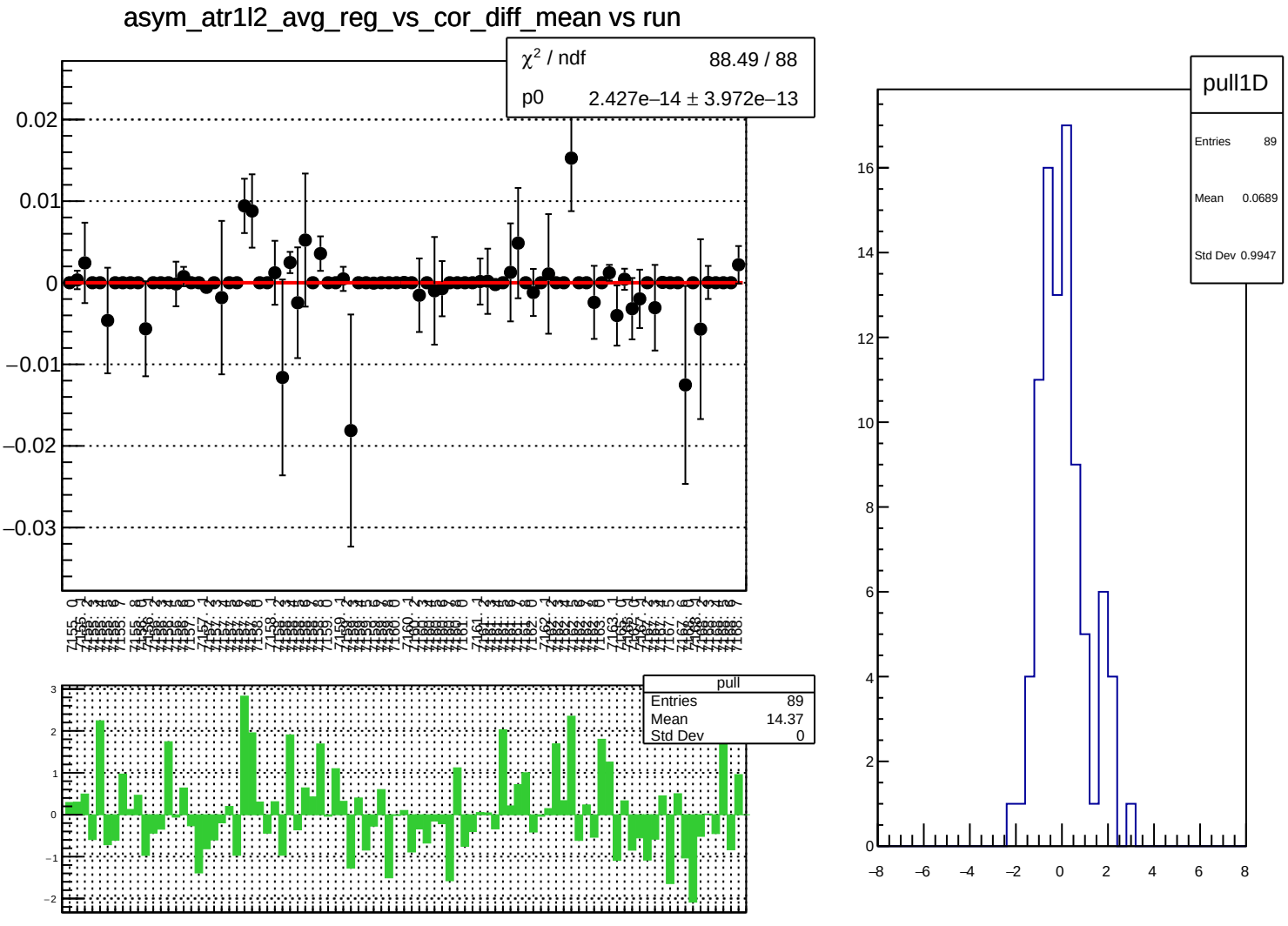

pull1D
Entries 89
Mean 0.02438
Std Dev 0.8843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

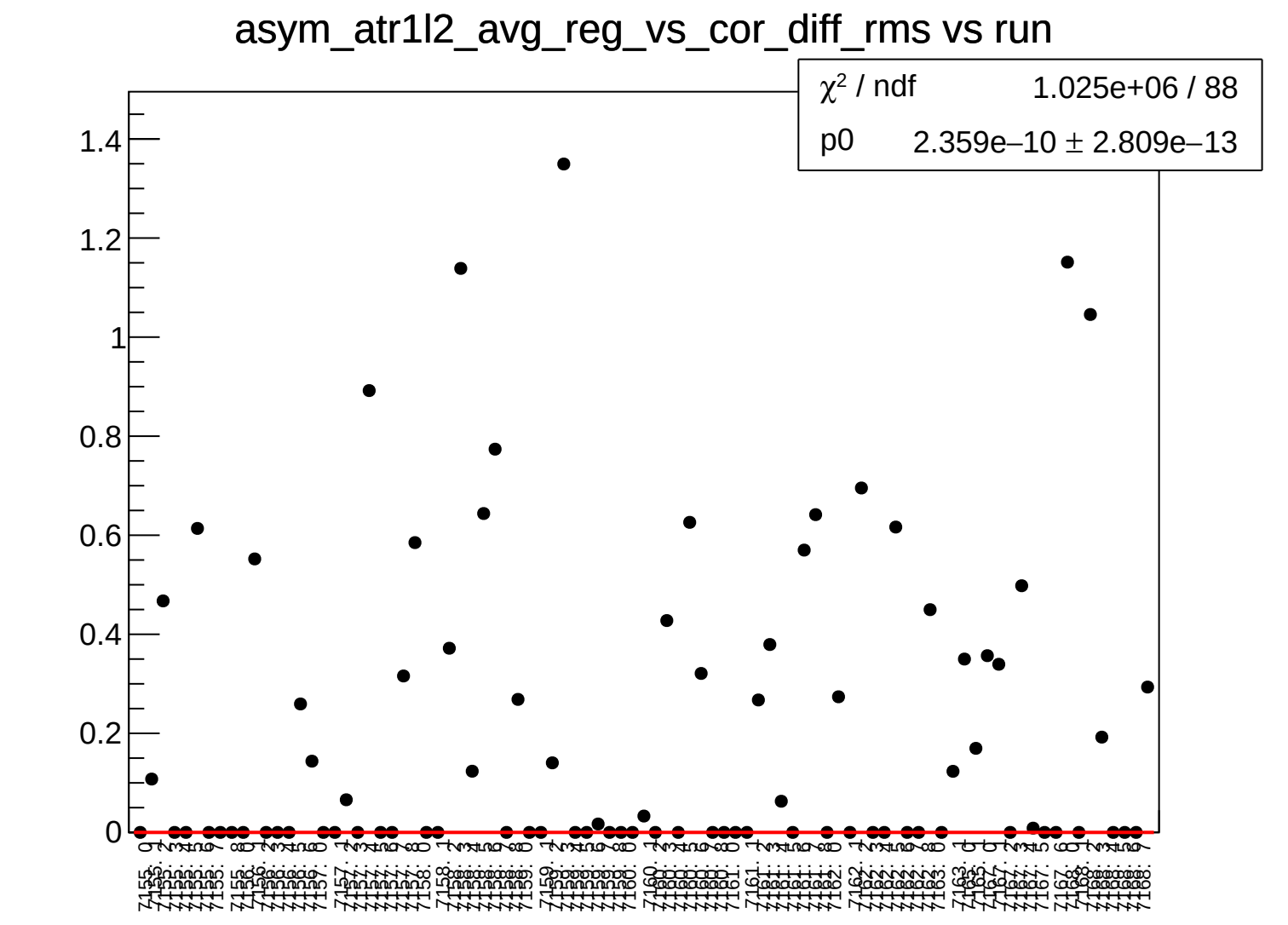

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8529 / 88
p0 8931 ± 6.807
11000
10500
10000
9500
9000
8500
8000
7500

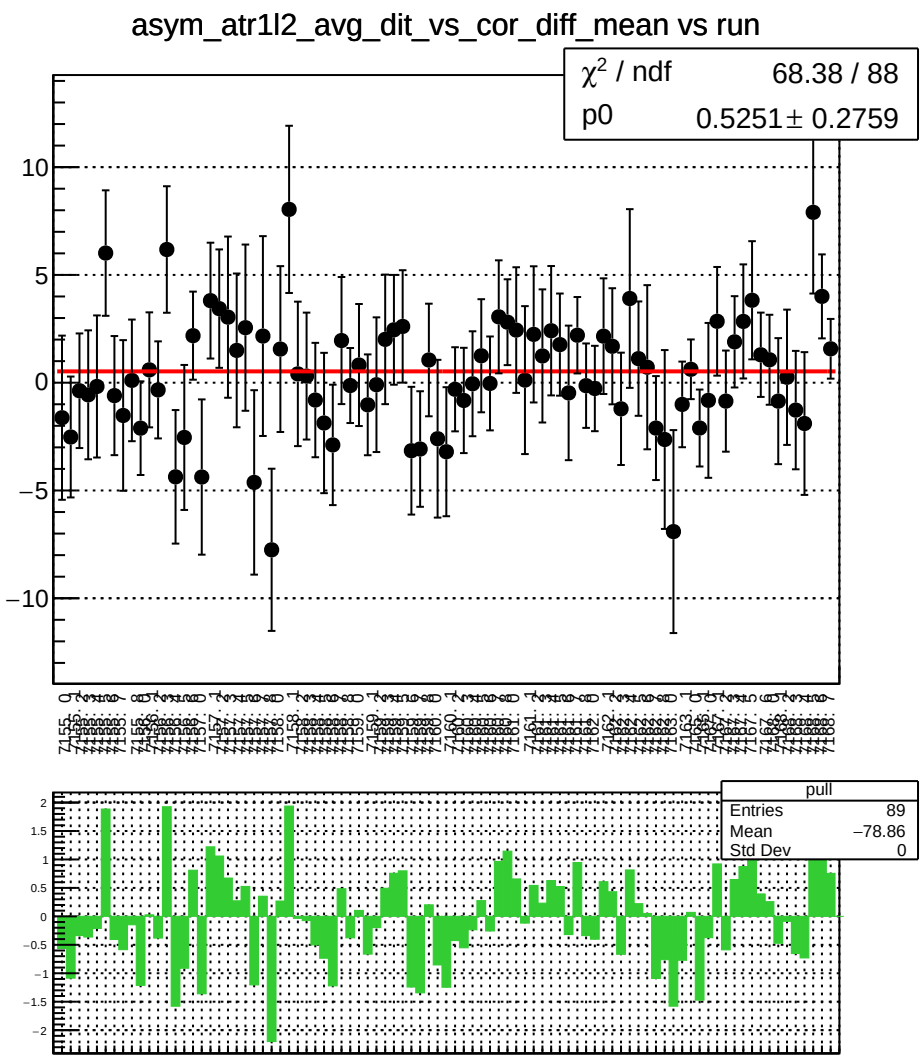

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 70.15 / 88
p0 −2730 ± 9684
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean 1.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

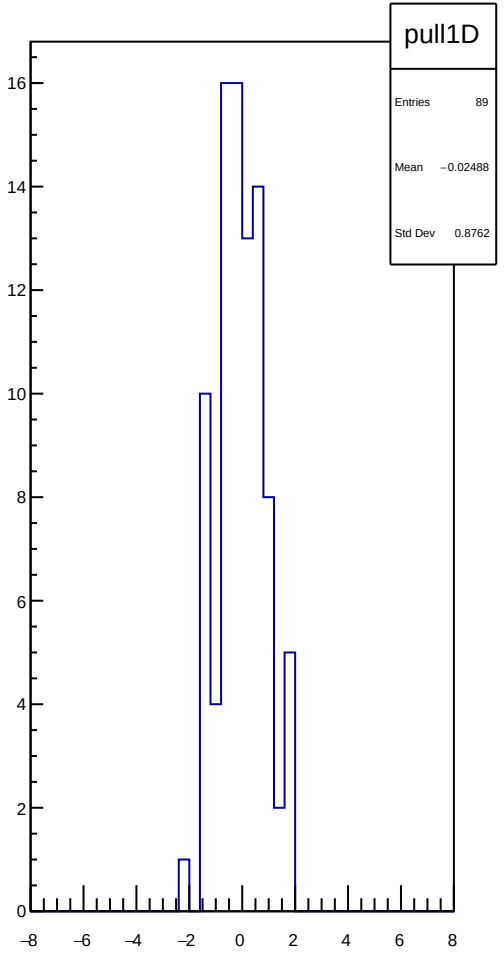

pull1D
Entries 89
Mean −0.02091
Std Dev 0.8876
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

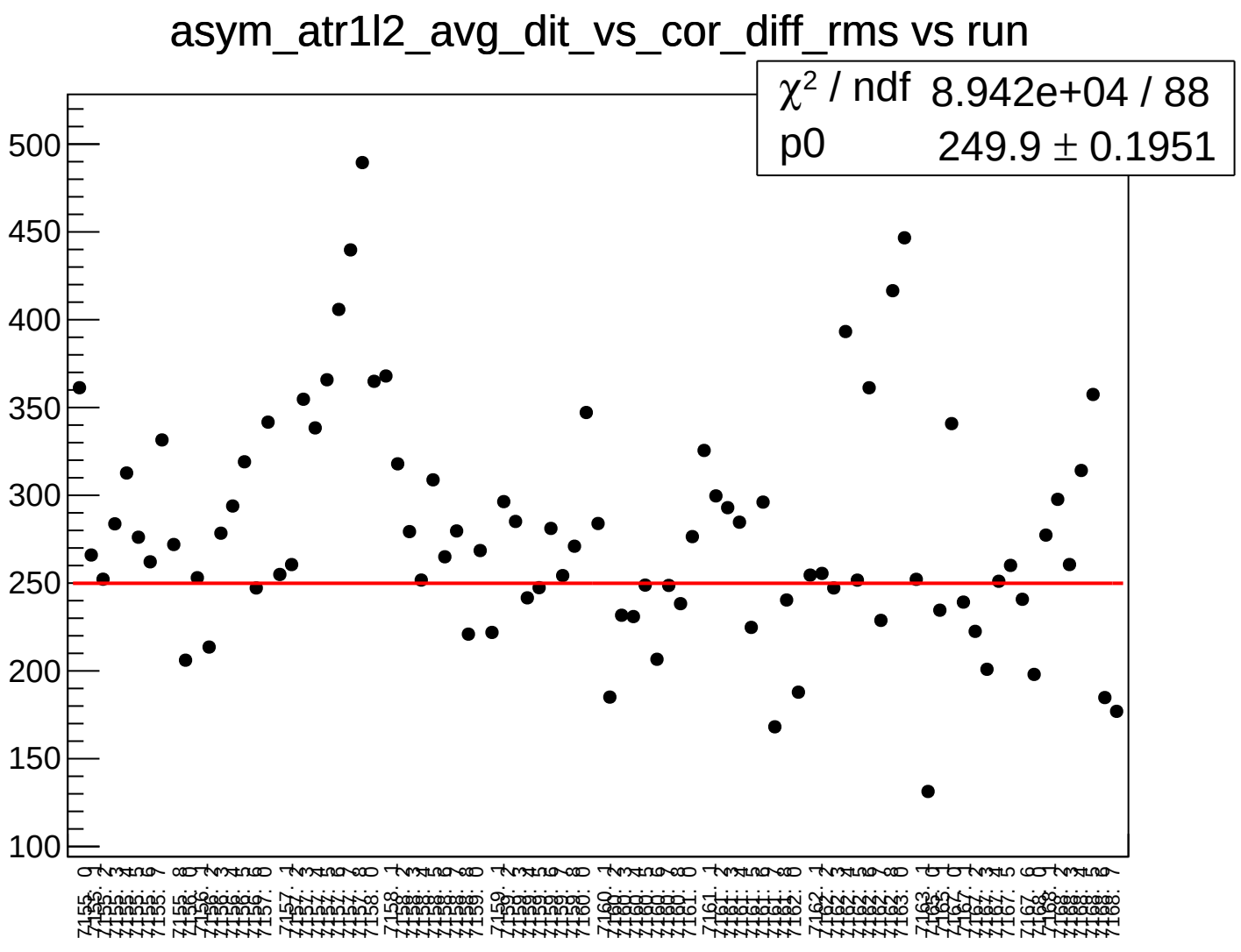

asym_atr1l2_avg_rms vs run
χ^2 / ndf 8108 / 88
p0 8986 ± 6.848
11000
10500
10000
9500
9000
8500
8000

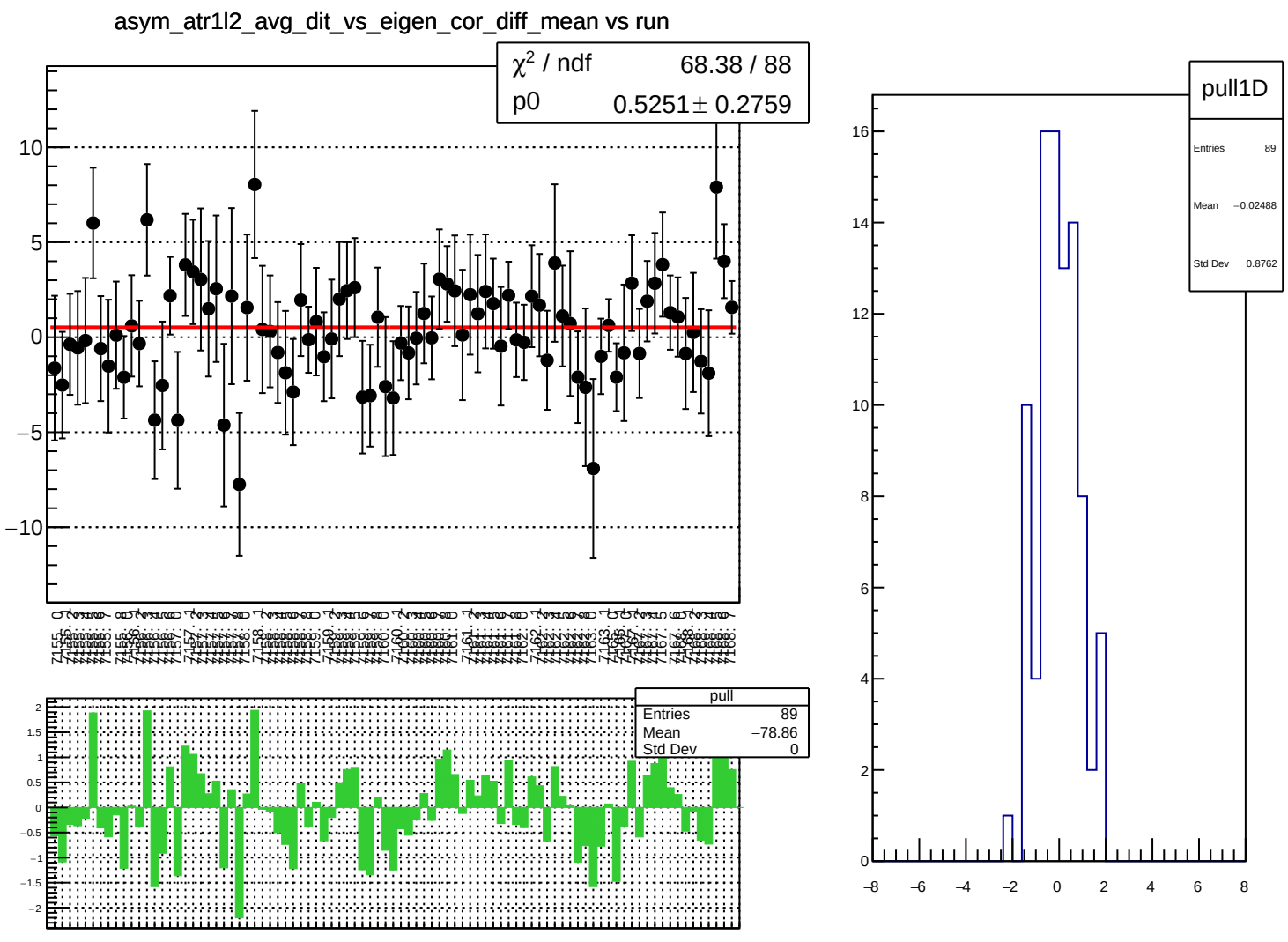

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.49 / 88
p0 2.427e−14 ± 3.972e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 14.37
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.0689
Std Dev 0.9947
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

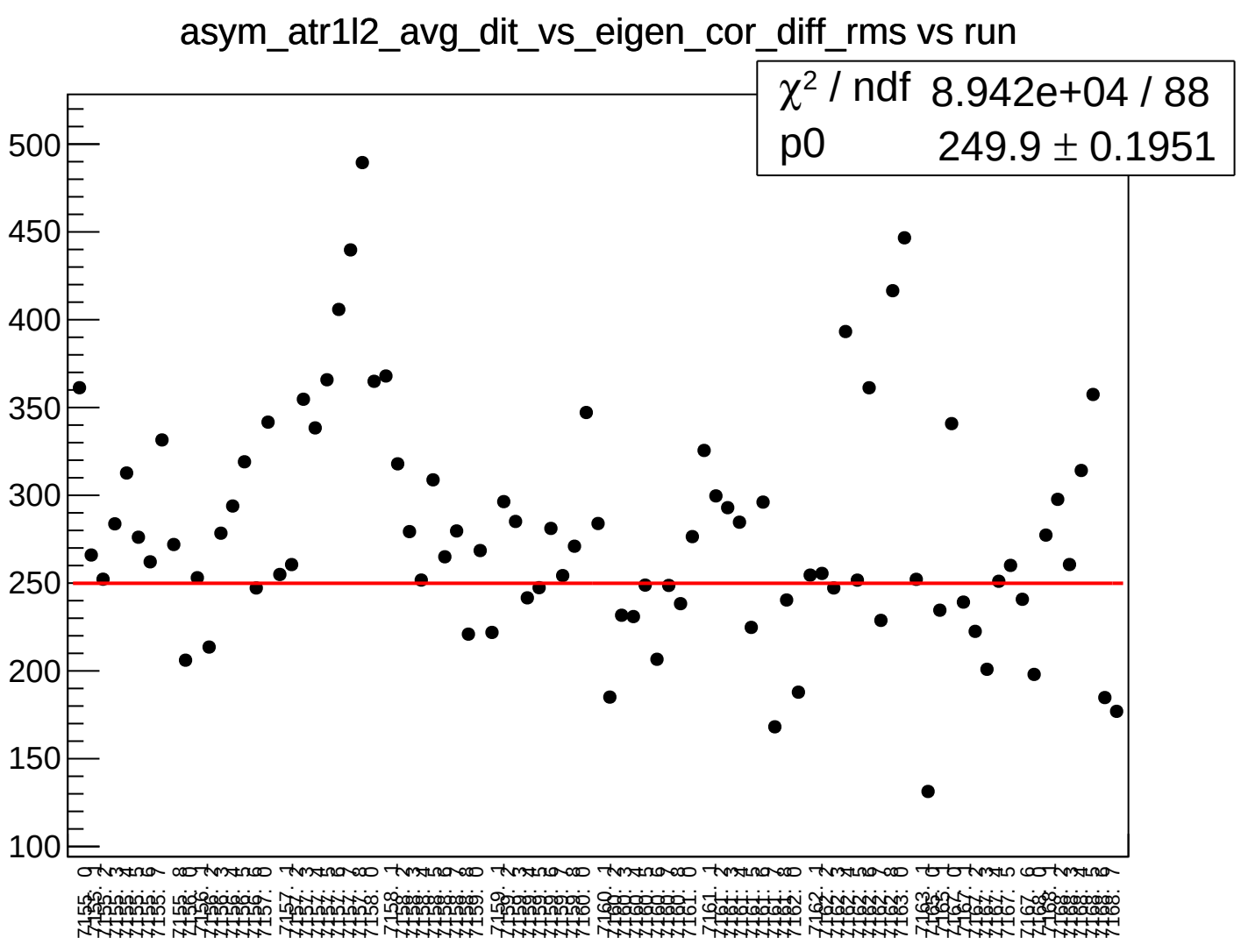

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 88
p0 2.359e−10 ± 2.809e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

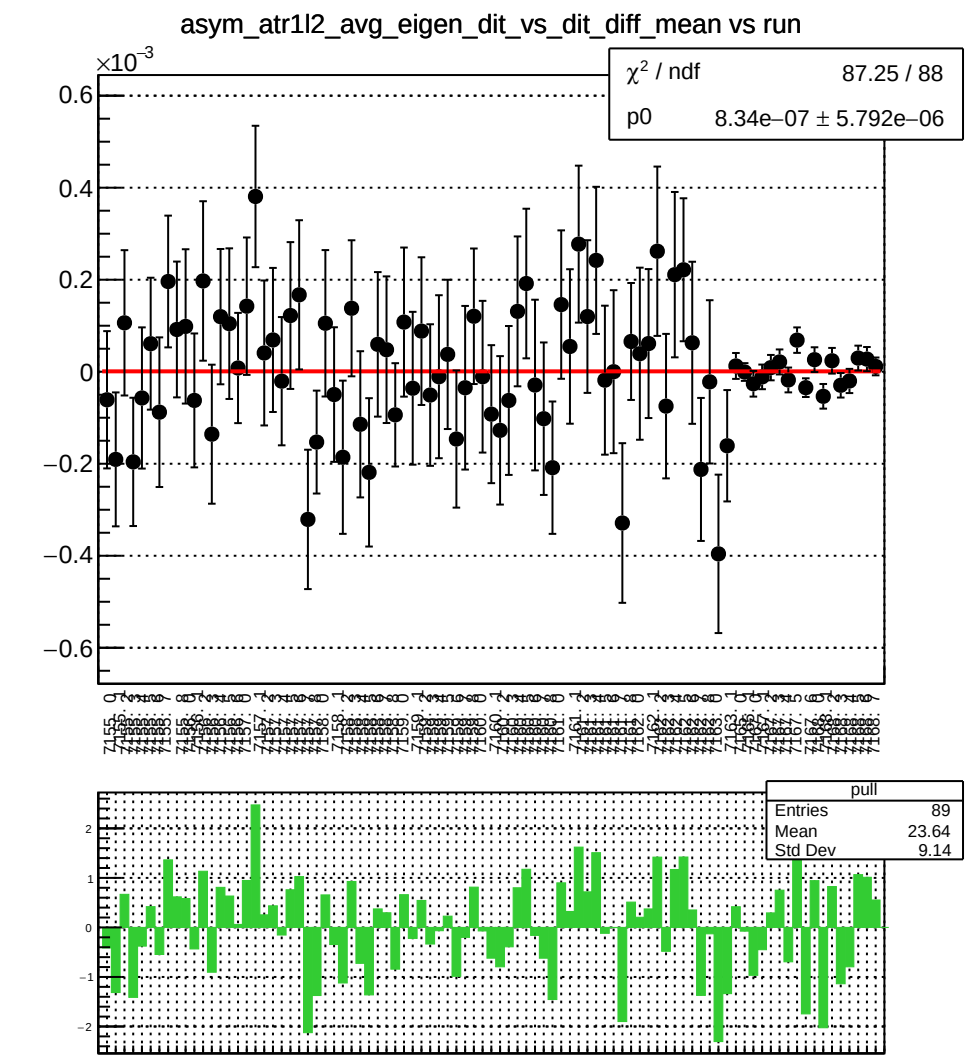

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.38 / 88
p0 0.5251 ± 0.2759
pull
Entries 89
Mean −78.86
Std Dev 0

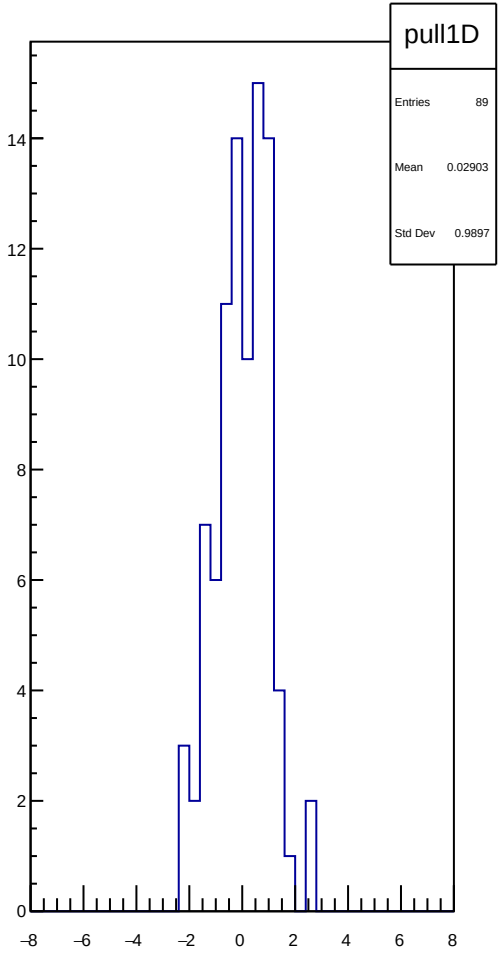

pull1D
Entries 89
Mean −0.02488
Std Dev 0.8762

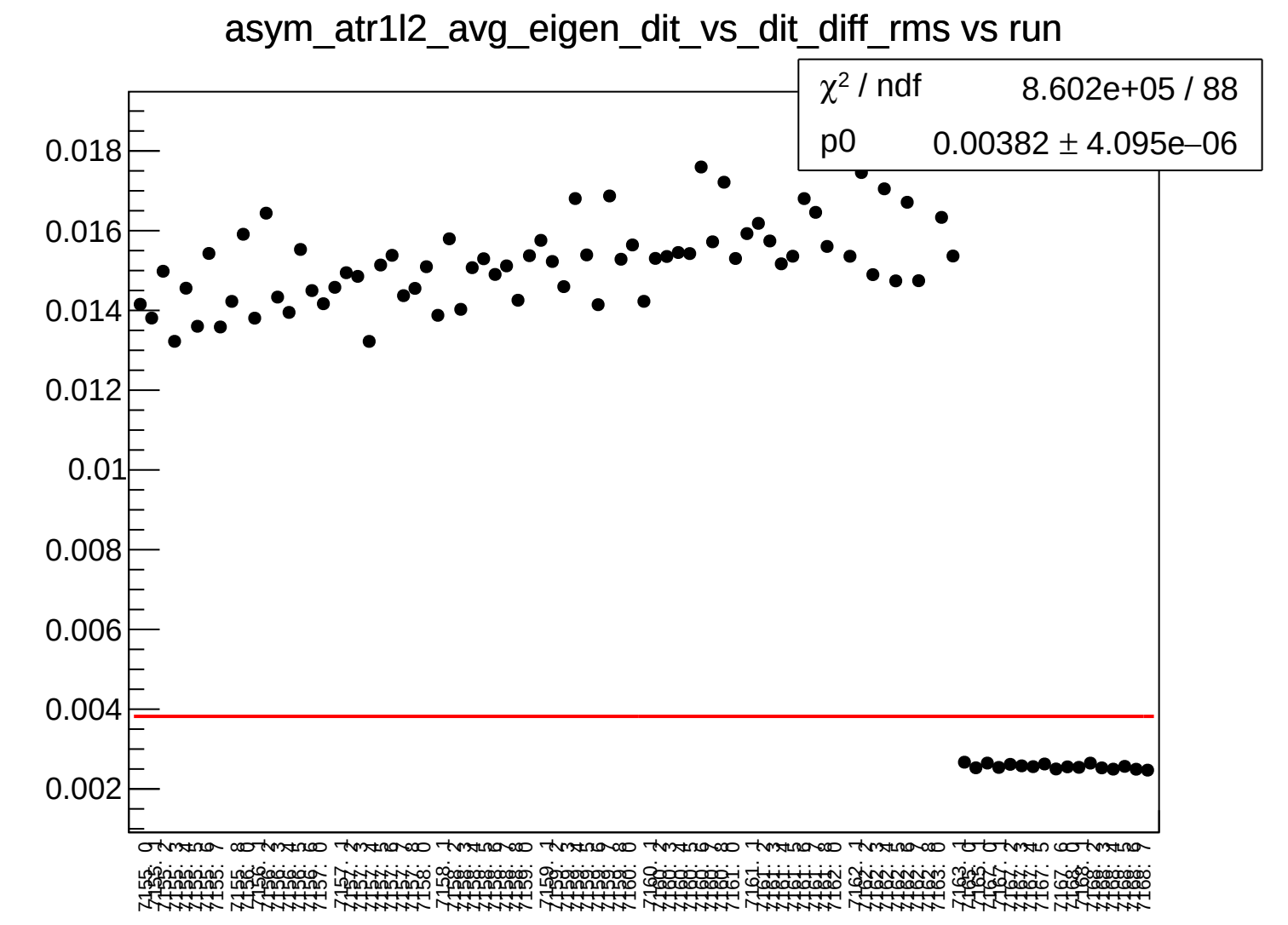

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 88
p0 249.9 ± 0.1951
500
450
400
350
300
250
200
150
100

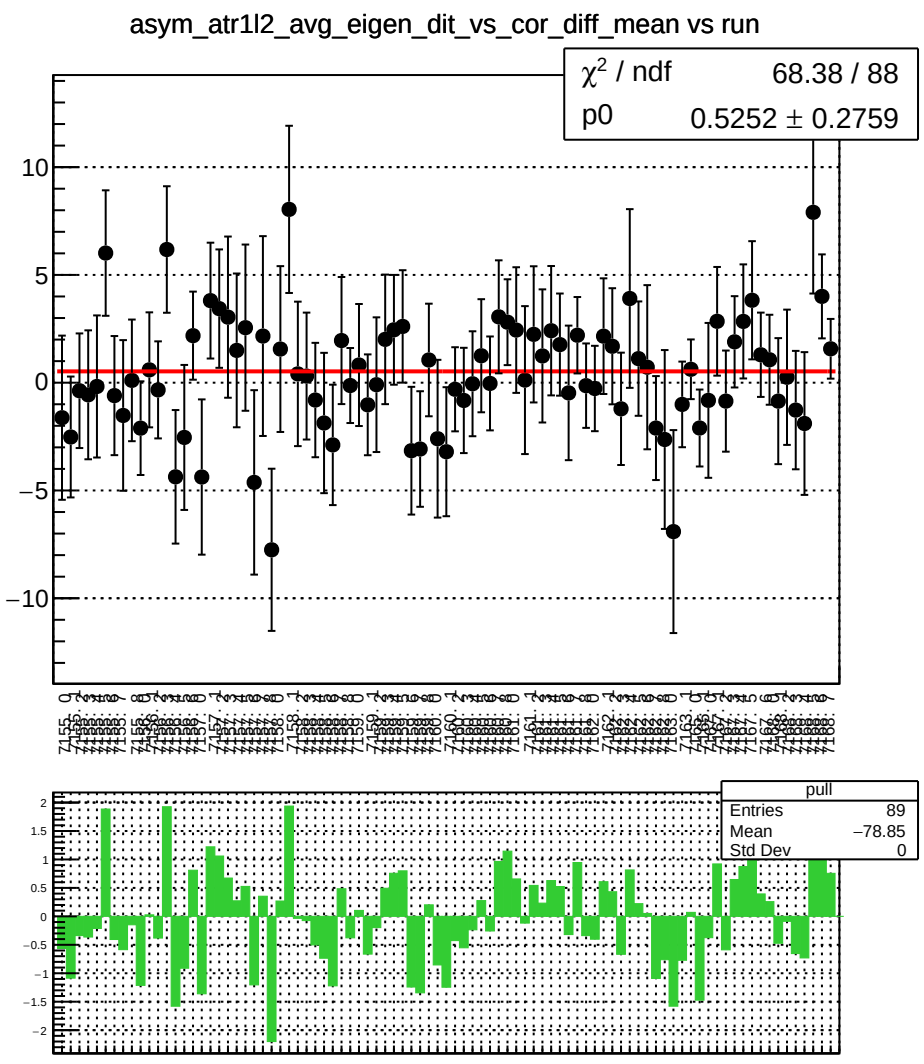

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.38 / 88
p0 0.5251± 0.2759
pull
Entries 89
Mean −78.86
Std Dev 0
pull1D
Entries 89
Mean −0.02488
Std Dev 0.8762

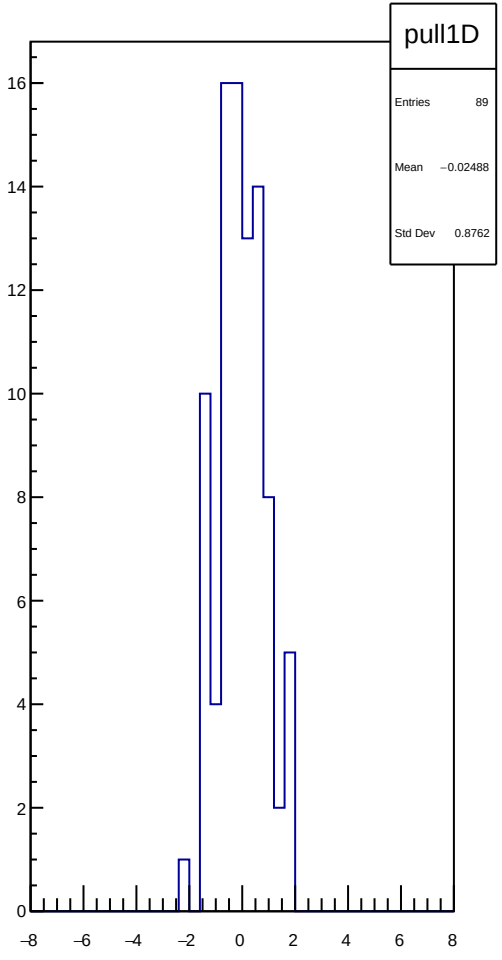

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 88
p0 249.9 ± 0.1951
500
450
400
350
300
250
200
150
100

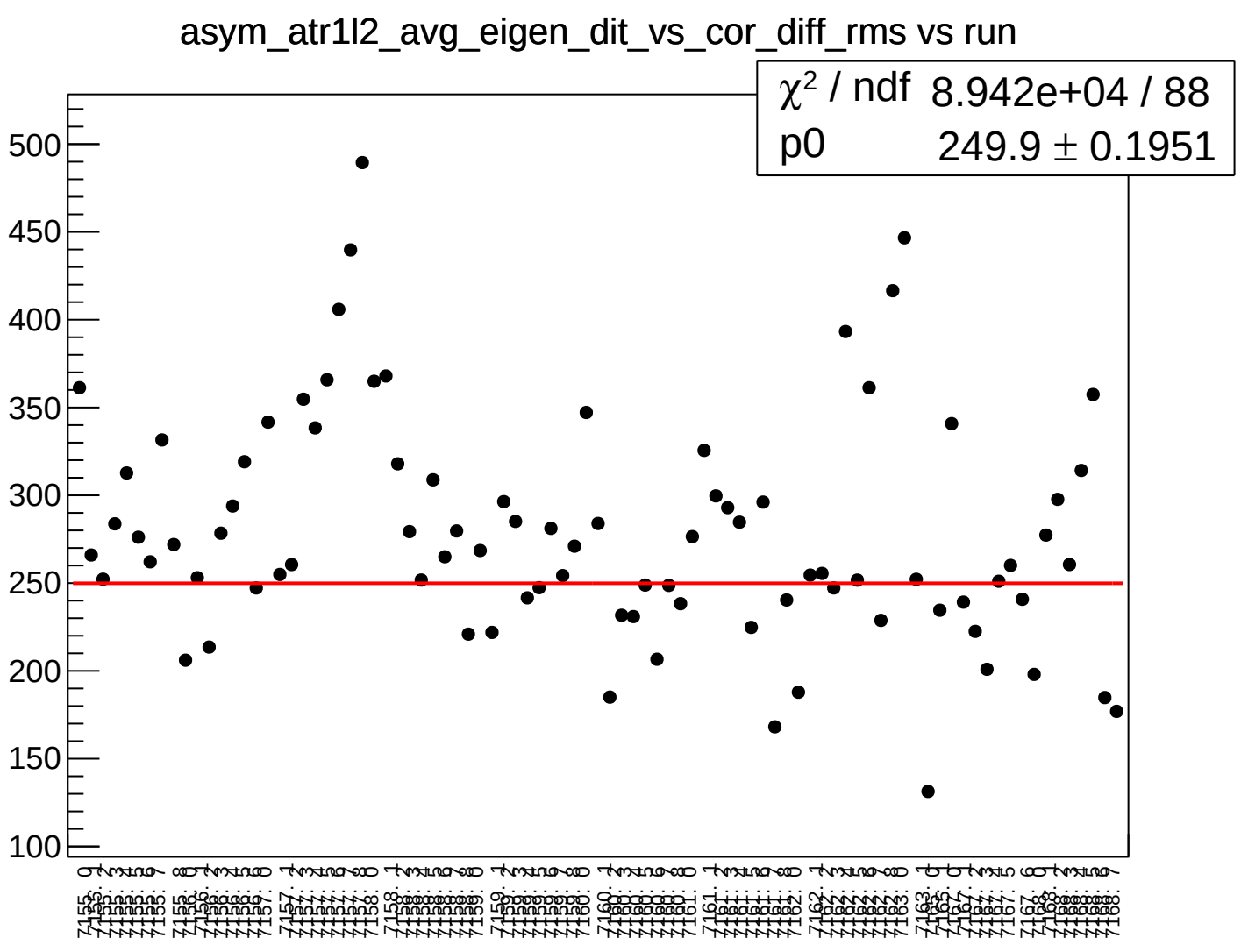

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.25 / 88
p0 8.34e−07 ± 5.792e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 23.64
Std Dev 9.14
2
1
0
−1
−2

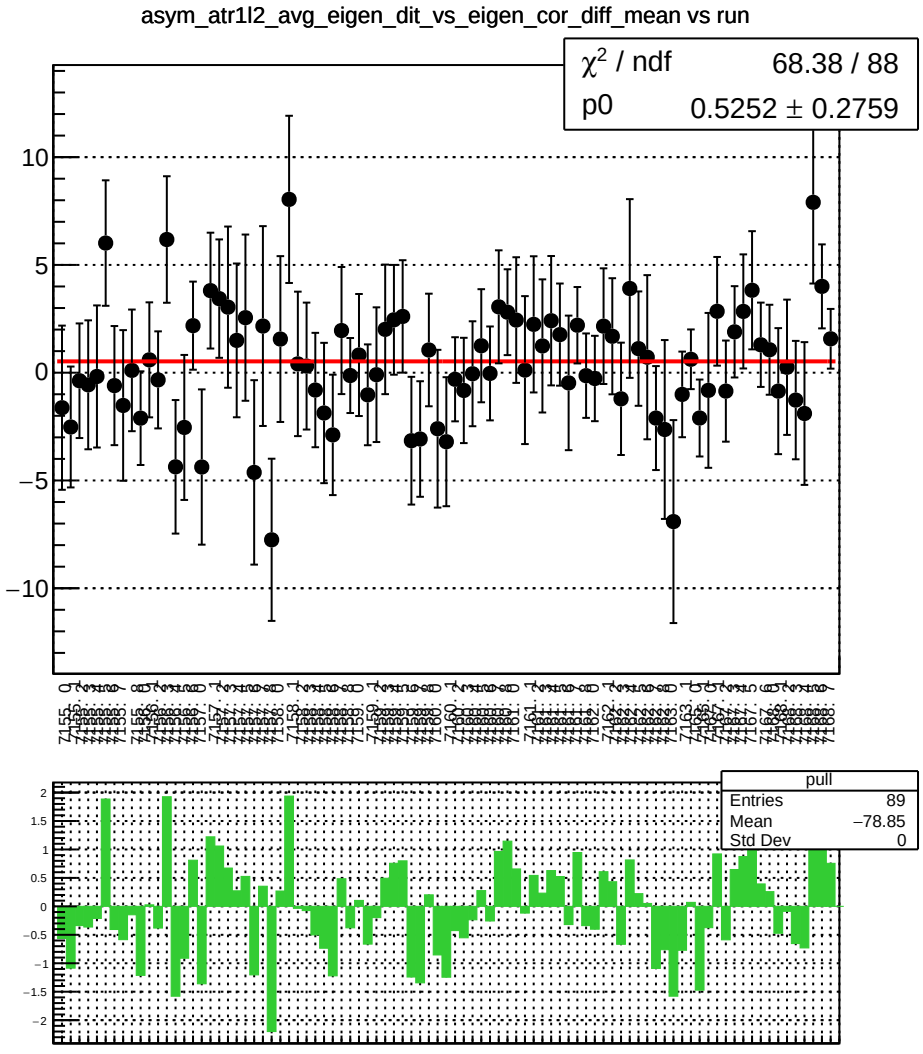

pull1D
Entries 89
Mean 0.02903
Std Dev 0.9897
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

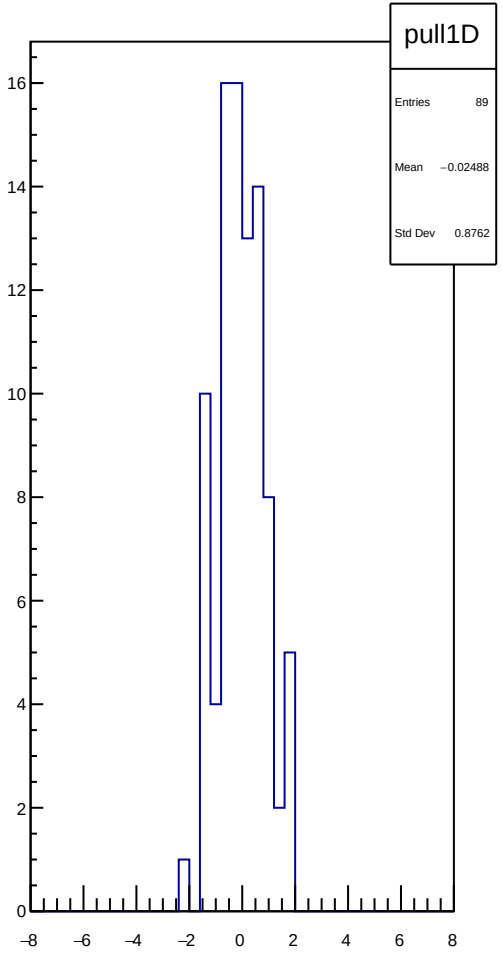

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.602e+05 / 88
p0 0.00382 ± 4.095e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

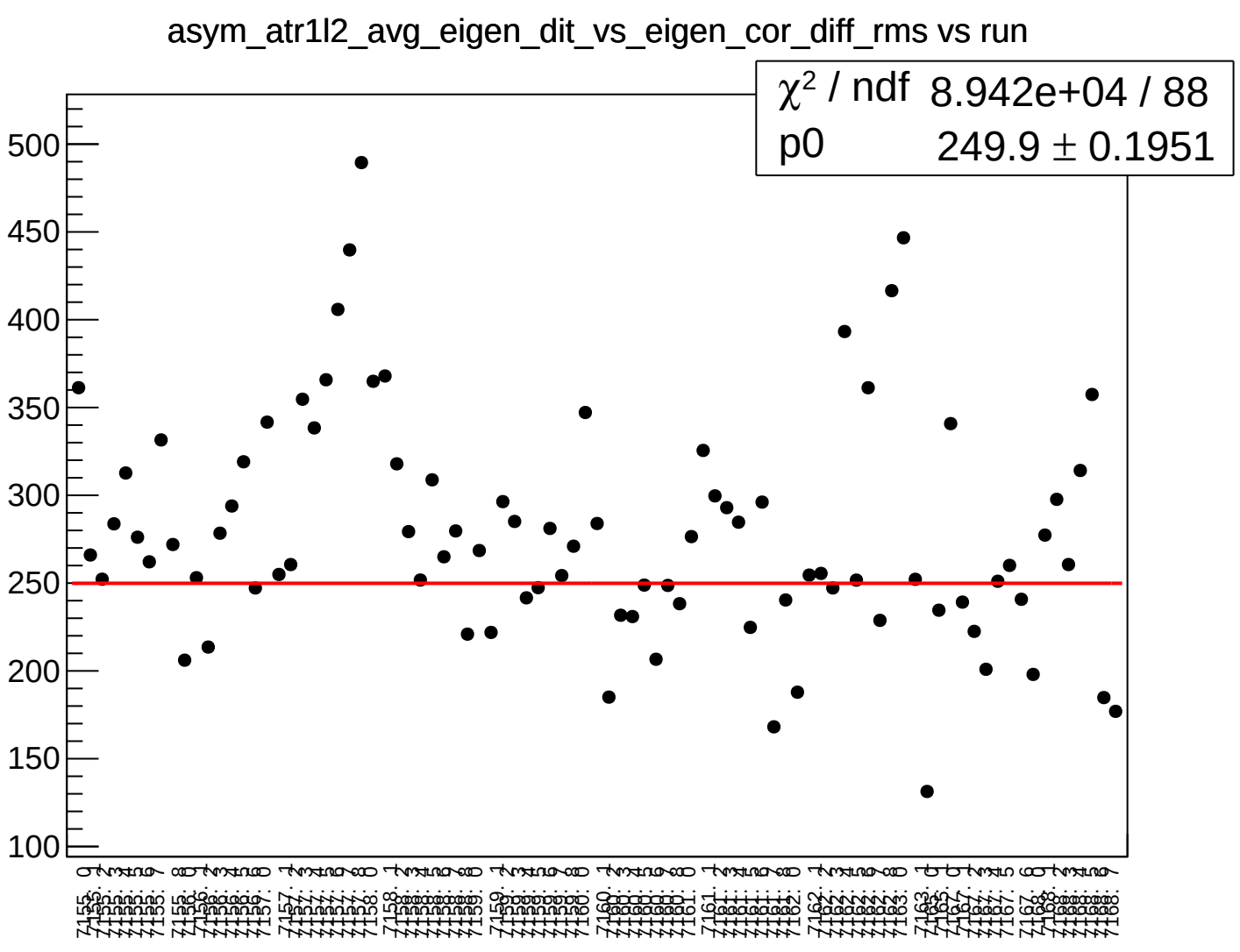

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.38 / 88
p0 0.5252 ± 0.2759
pull
Entries 89
Mean −78.85
Std Dev 0

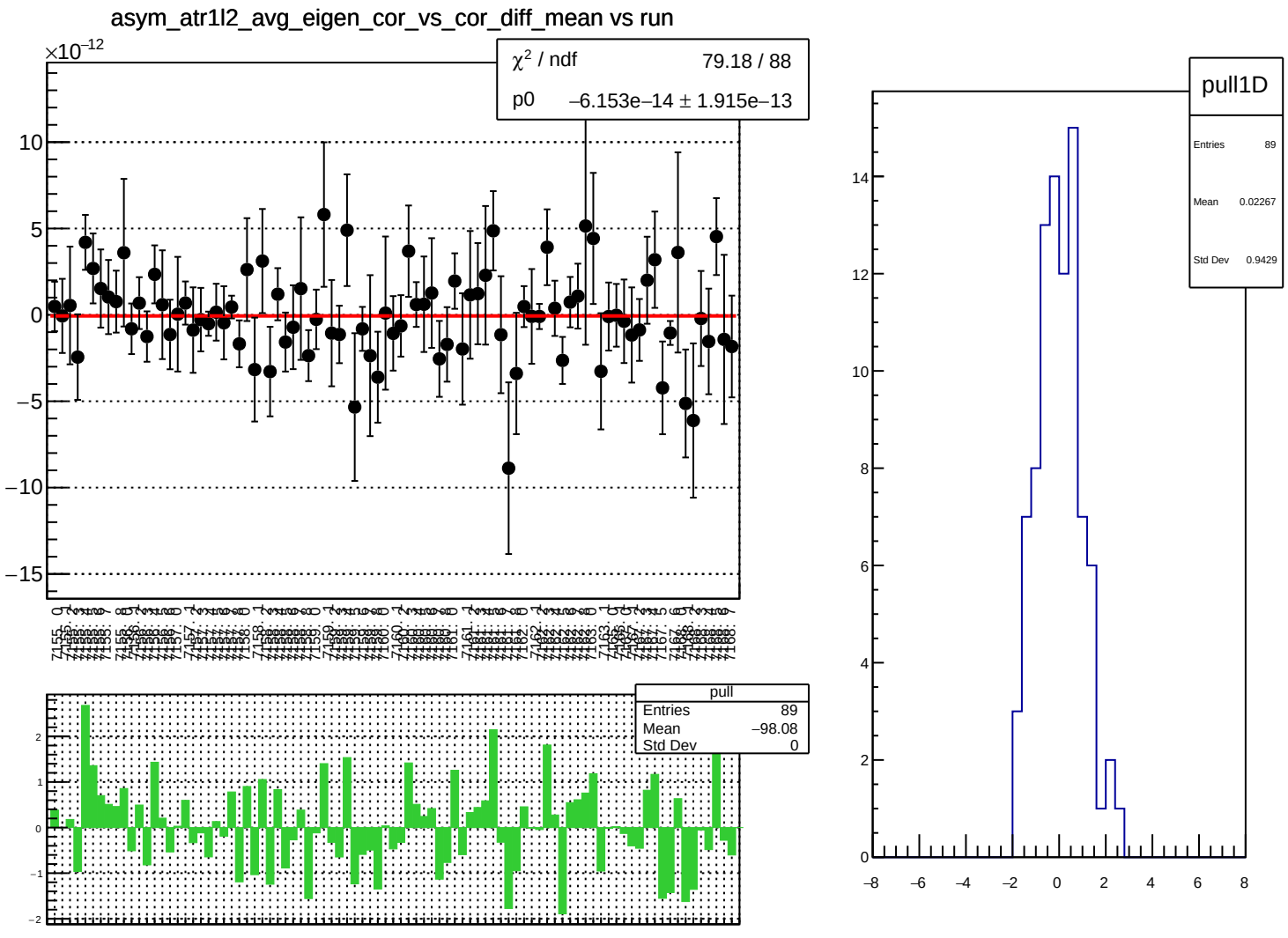

pull1D
Entries 89
Mean −0.02488
Std Dev 0.8762

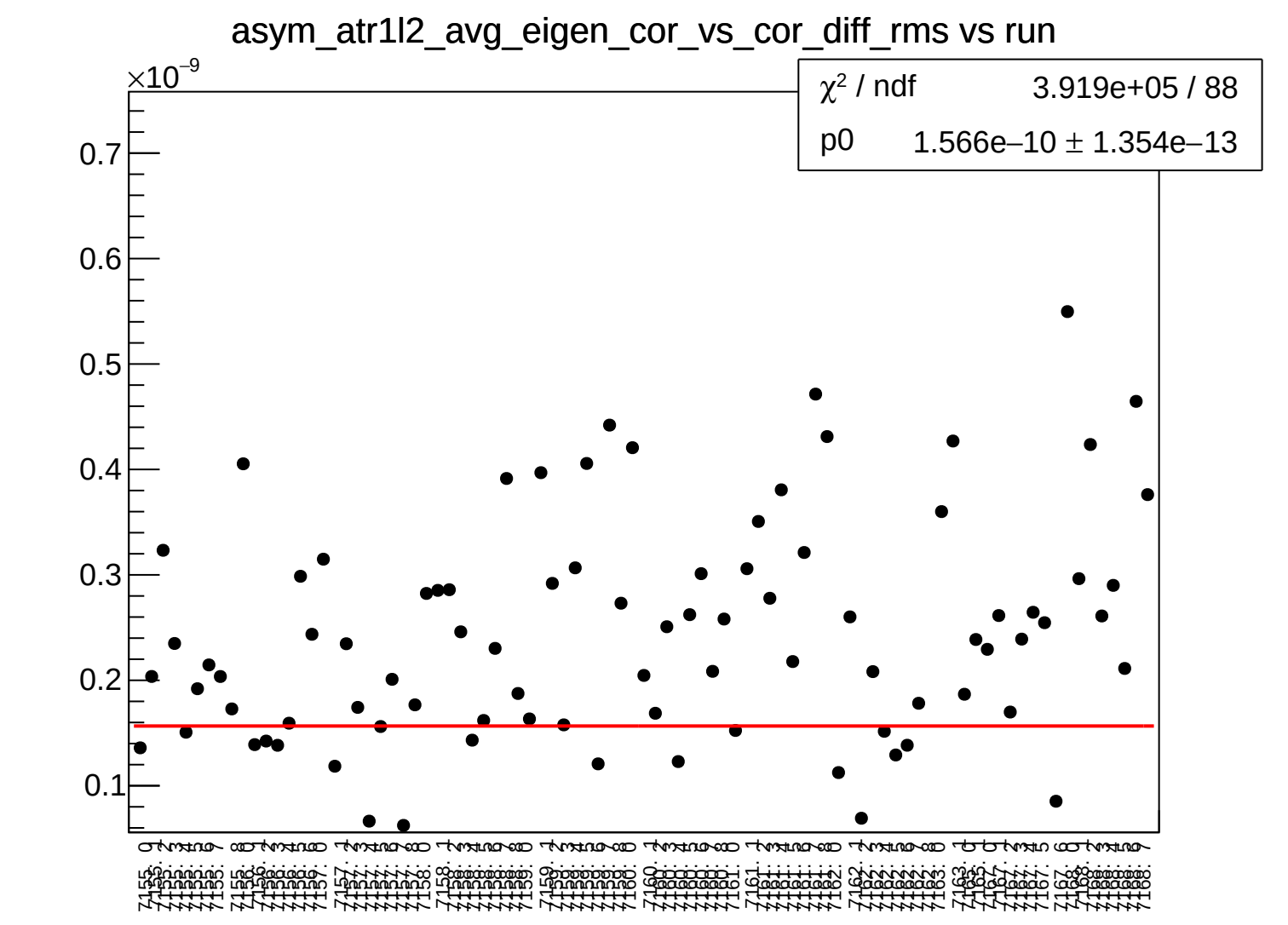

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 88
p0 249.9 ± 0.1951
500
450
400
350
300
250
200
150
100

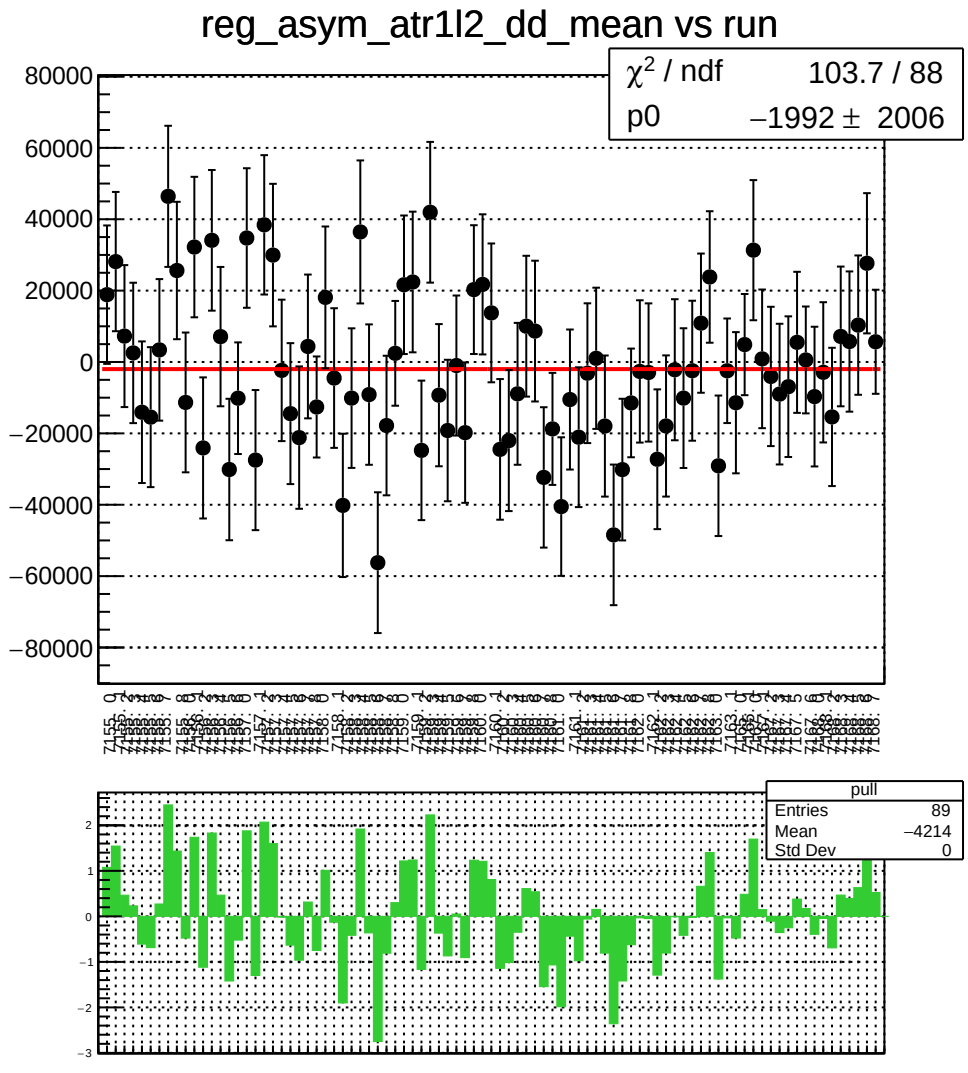

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.38 / 88
p0 0.5252 ± 0.2759
pull
Entries 89
Mean −78.85
Std Dev 0

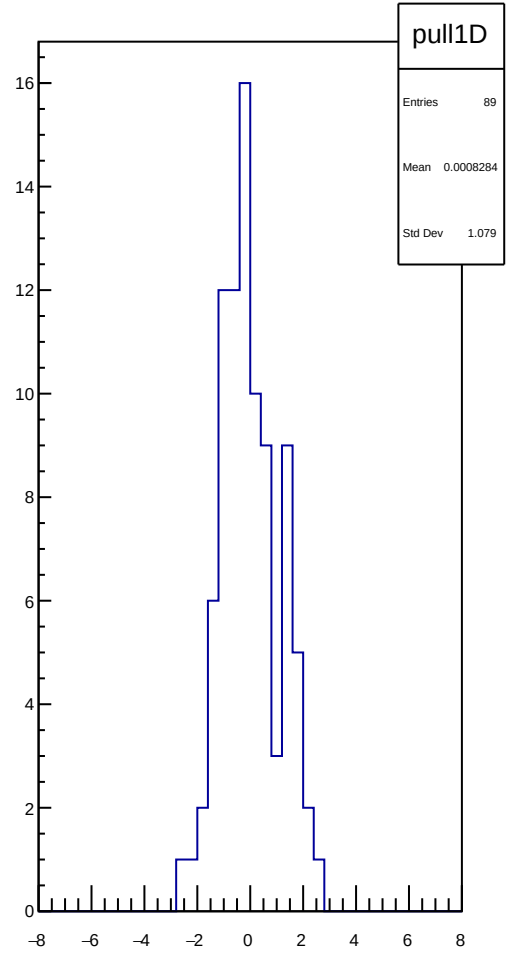

pull1D
Entries 89
Mean −0.02488
Std Dev 0.8762

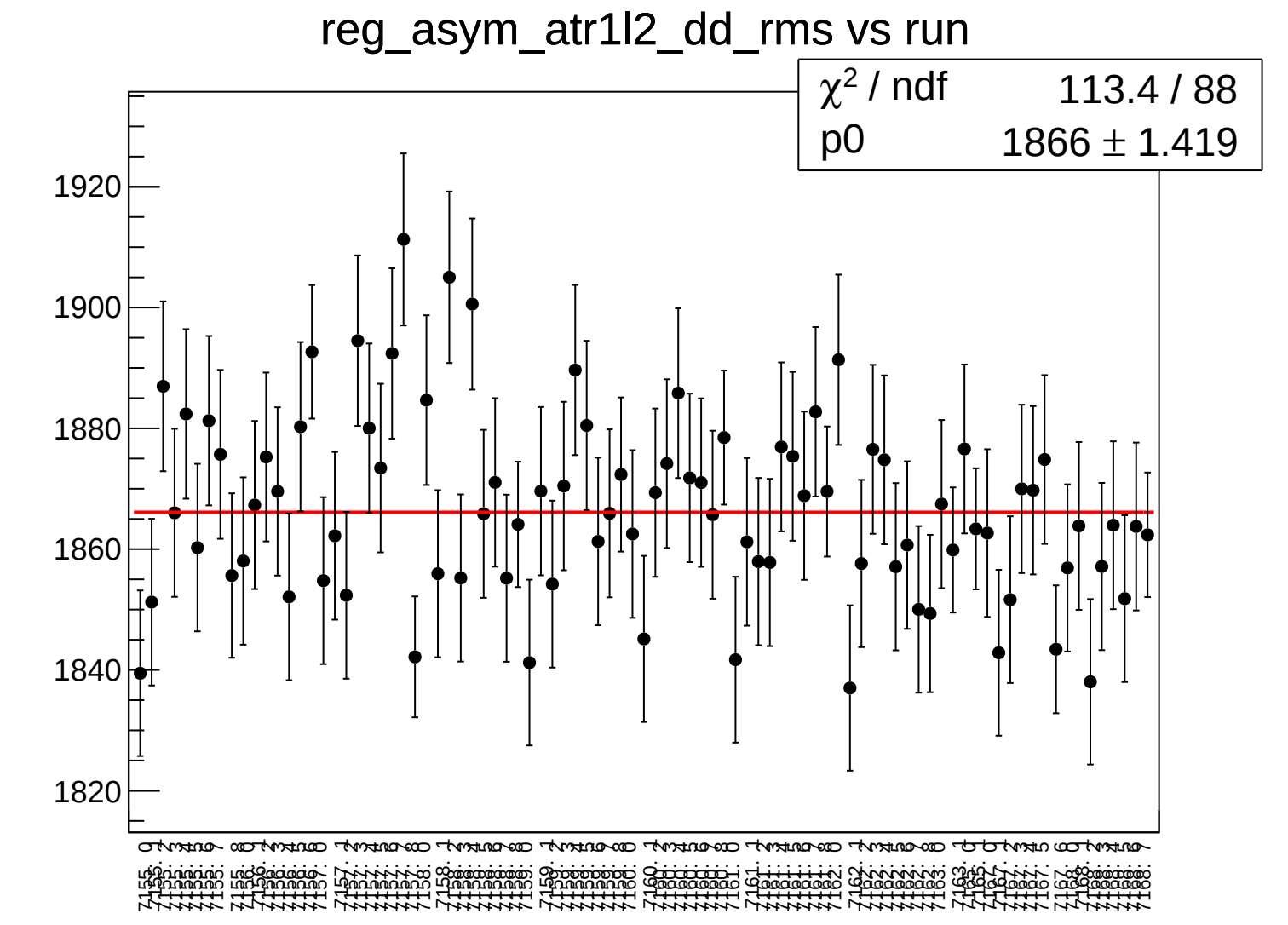

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.942e+04 / 88
p0 249.9 ± 0.1951
500
450
400
350
300
250
200
150
100

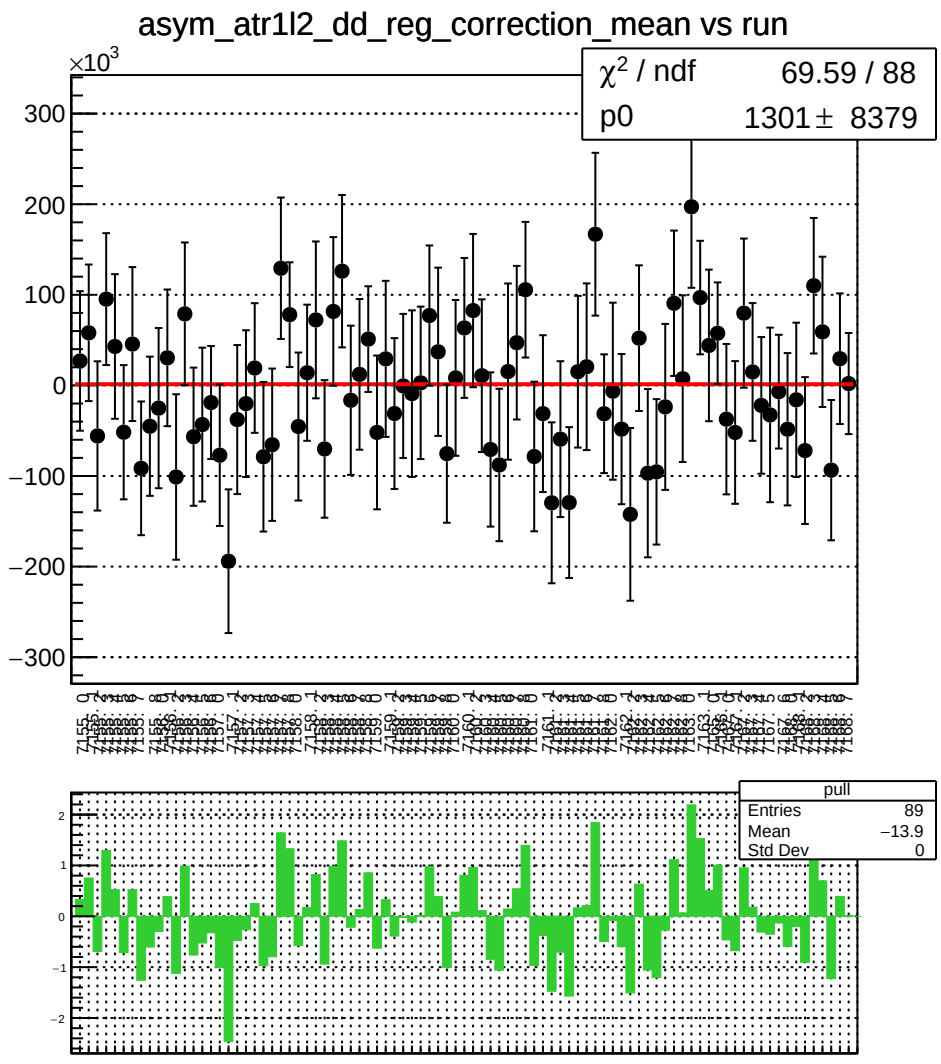

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.18 / 88
p0 −6.153e−14 ± 1.915e−13
pull
Entries 89
Mean −98.08
Std Dev 0
pull1D
Entries 89
Mean 0.02267
Std Dev 0.9429

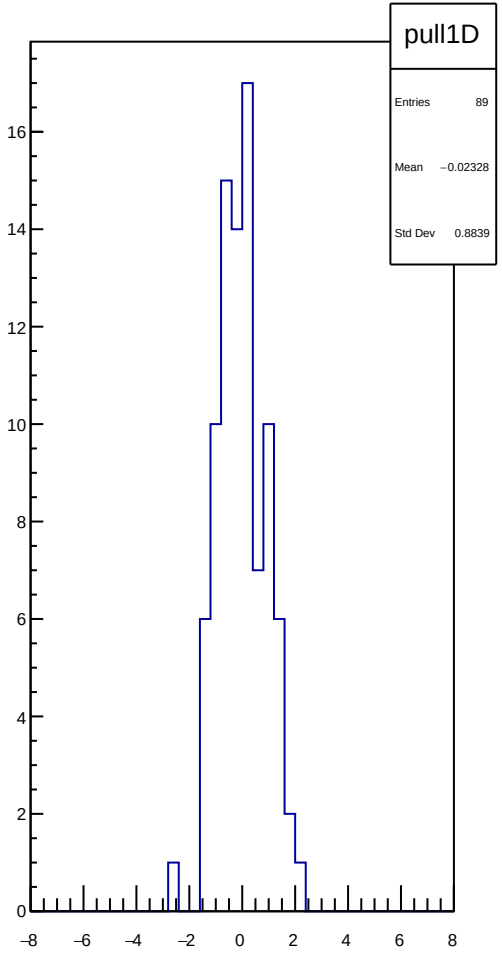

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.919e+05 / 88
p0 1.566e−10 ± 1.354e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

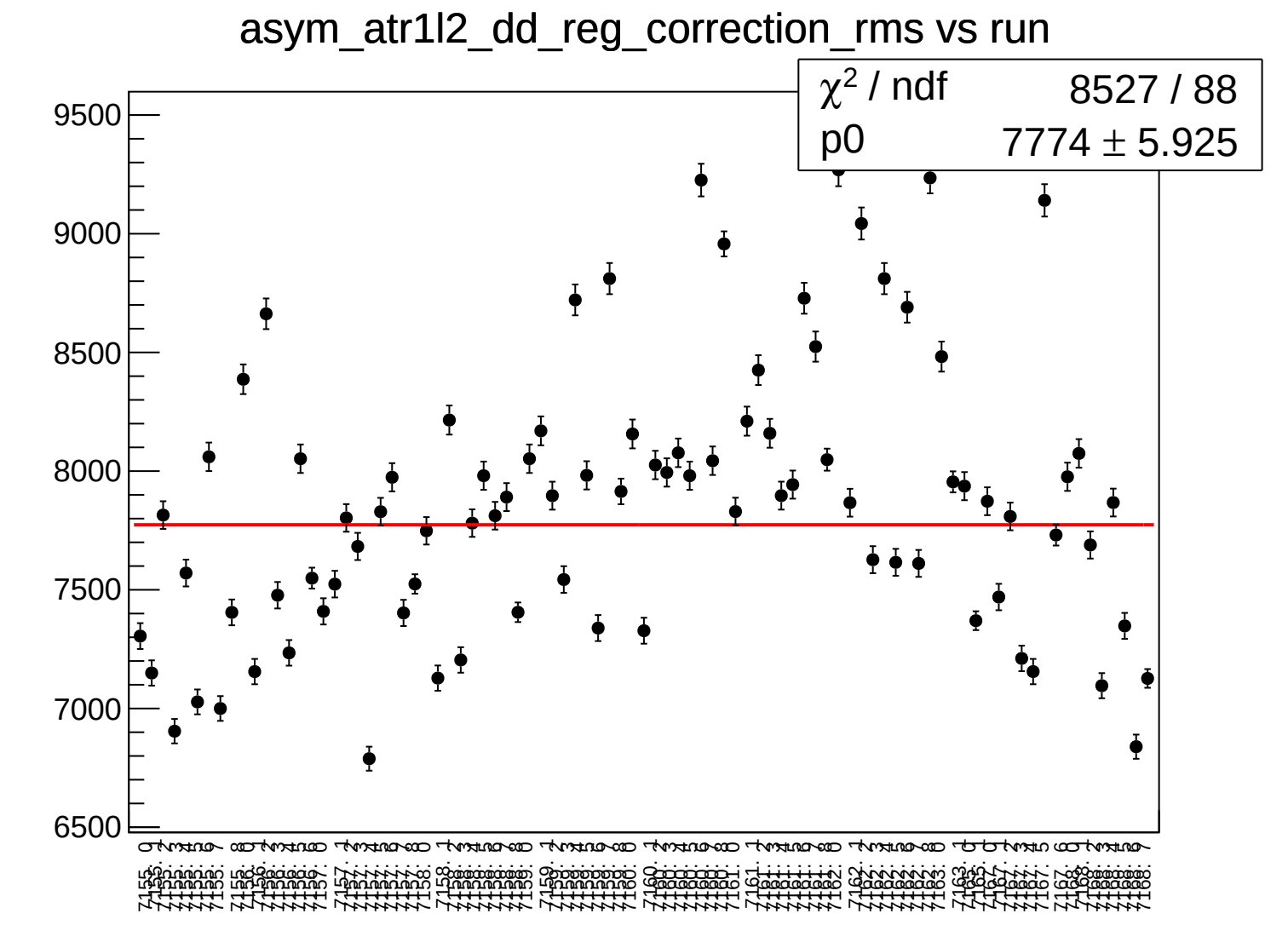

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 103.7 / 88
p0 −1992 ± 2006
pull
Entries 89
Mean −4214
Std Dev 0

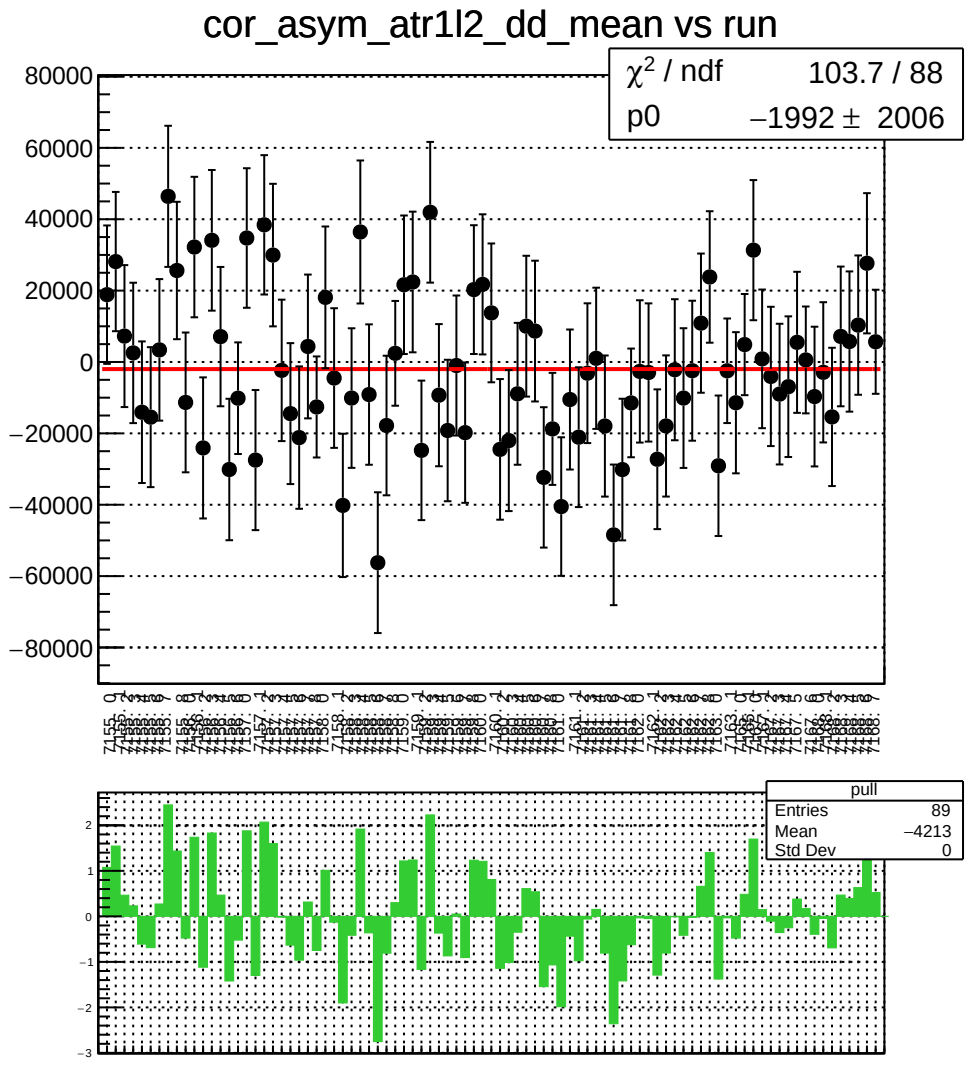

pull1D
Entries 89
Mean 0.0008284
Std Dev 1.079

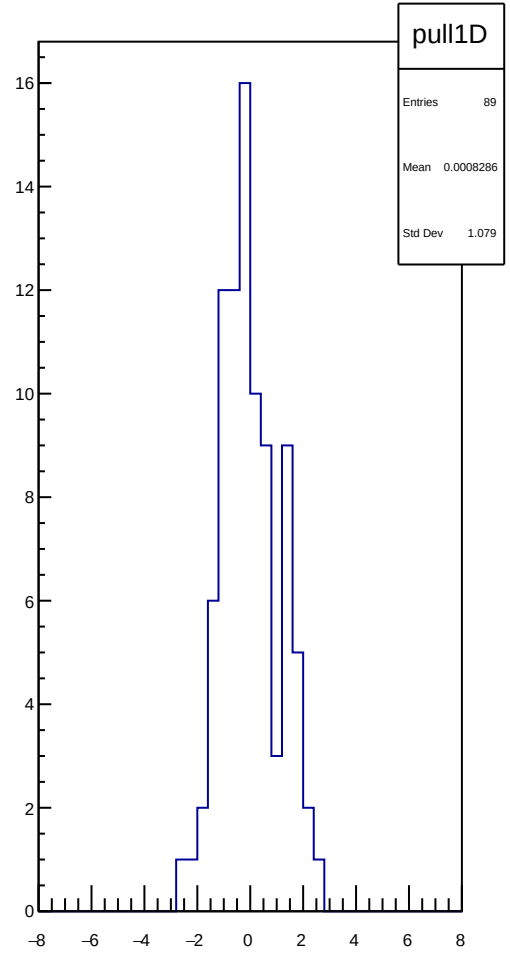

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 113.4 / 88
p0 1866 ± 1.419
1920
1900
1880
1860
1840
1820

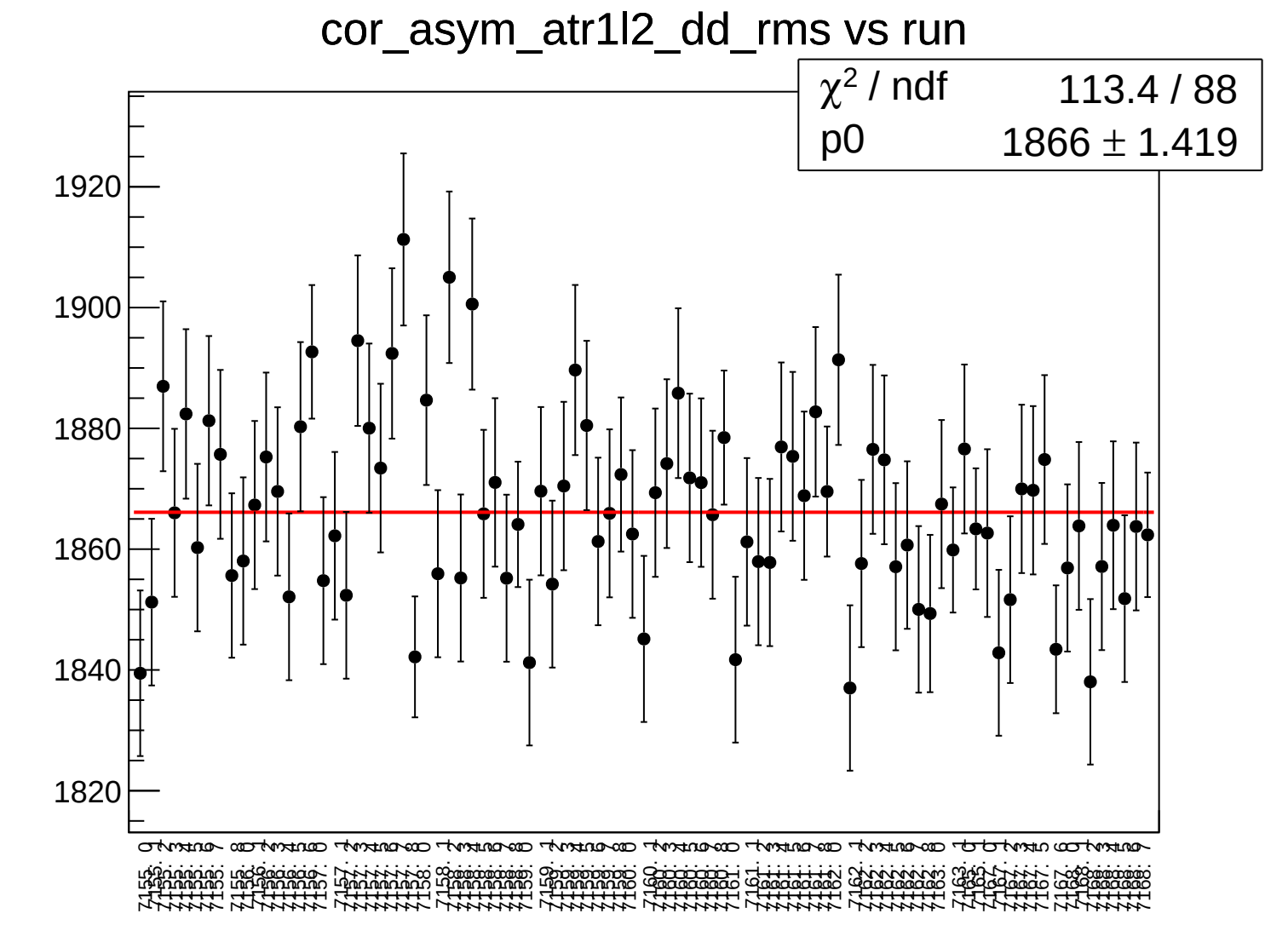

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.59 / 88
p0 1301 ± 8379
pull
Entries 89
Mean −13.9
Std Dev 0

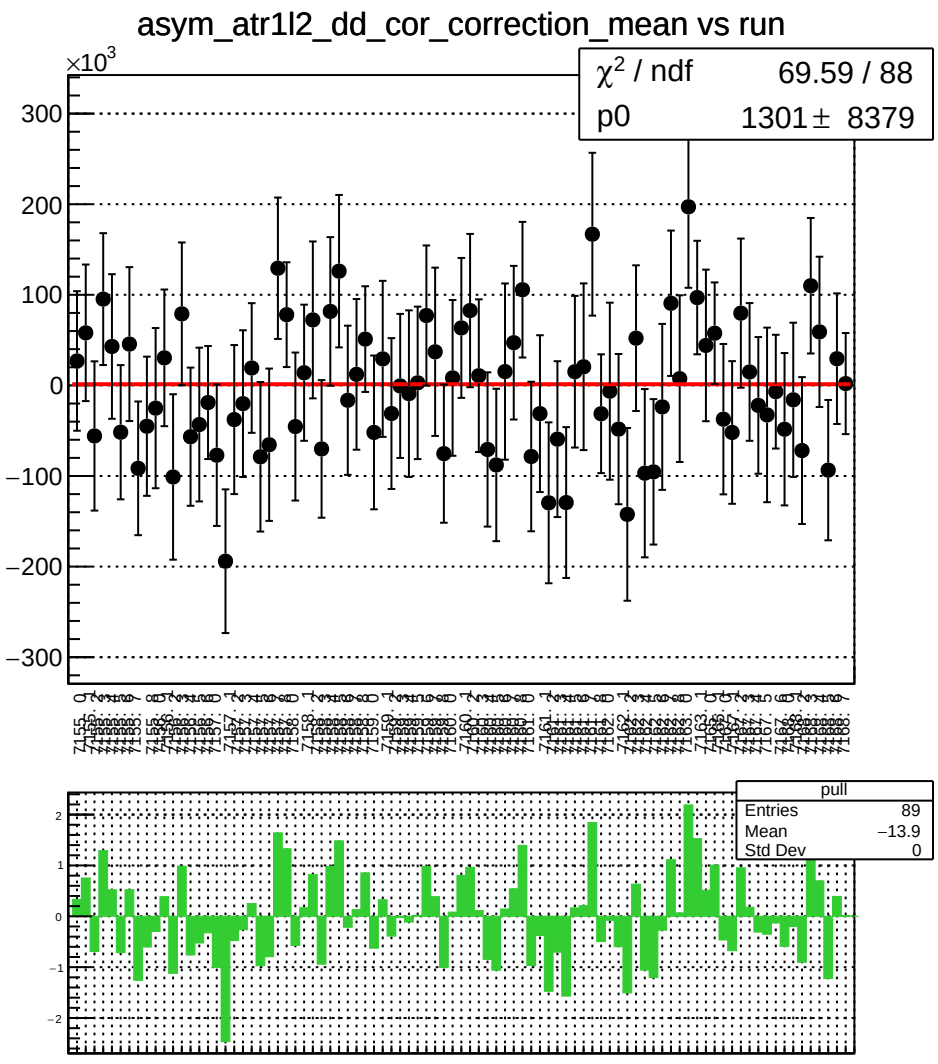

pull1D
Entries 89
Mean −0.02328
Std Dev 0.8839

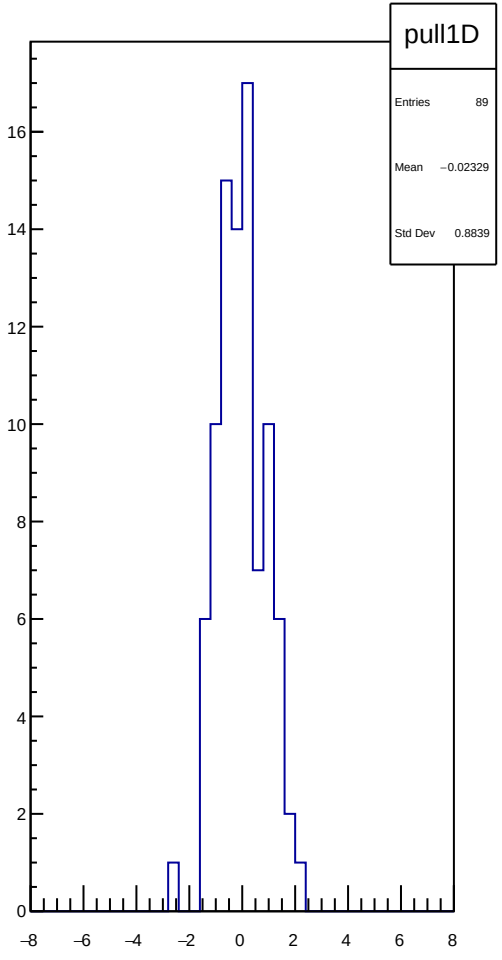

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 8527 / 88
p0 7774 ± 5.925
9500
9000
8500
8000
7500
7000
6500

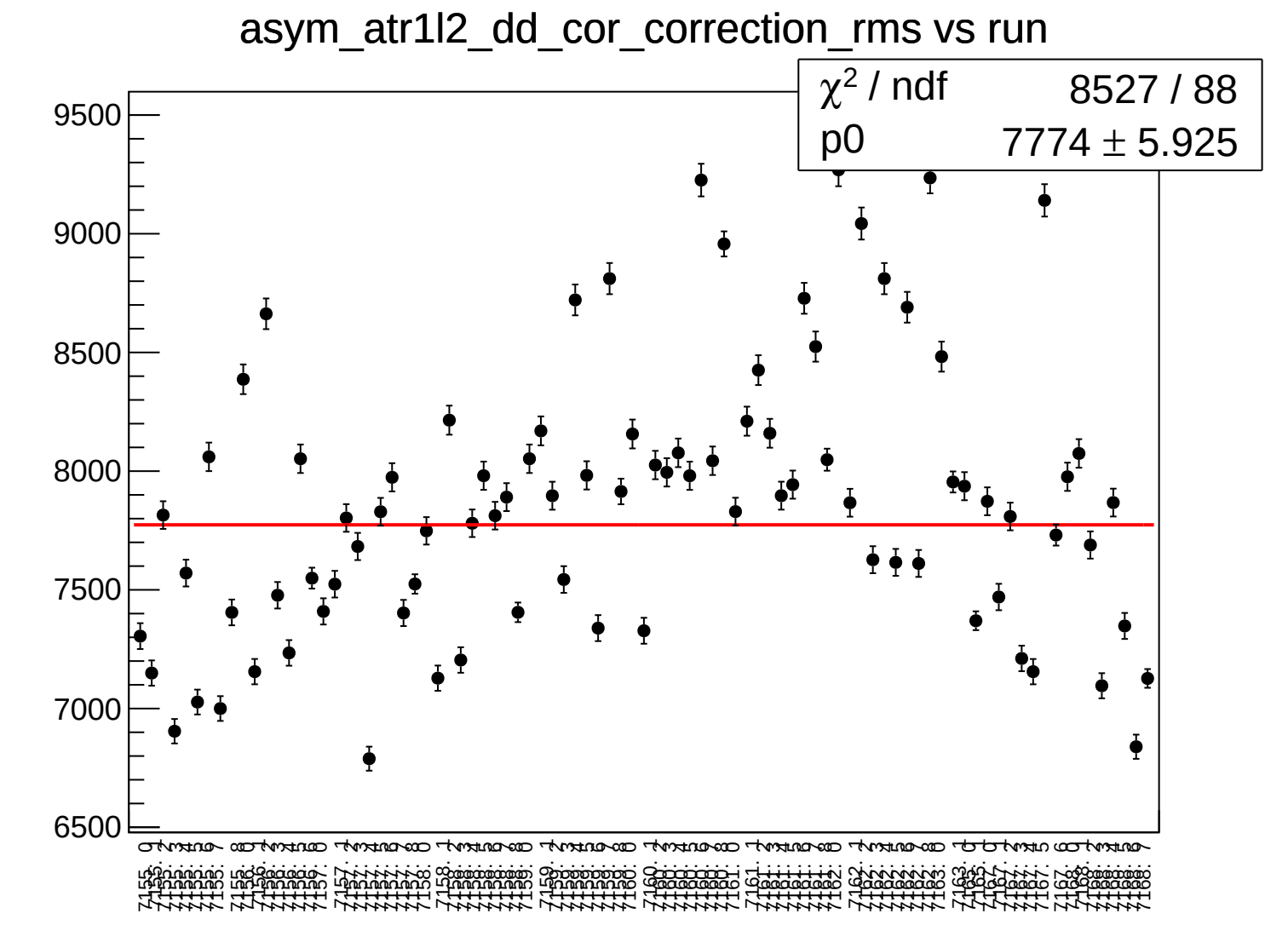

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 103.7 / 88
p0 −1992 ± 2006
pull
Entries 89
Mean −4213
Std Dev 0

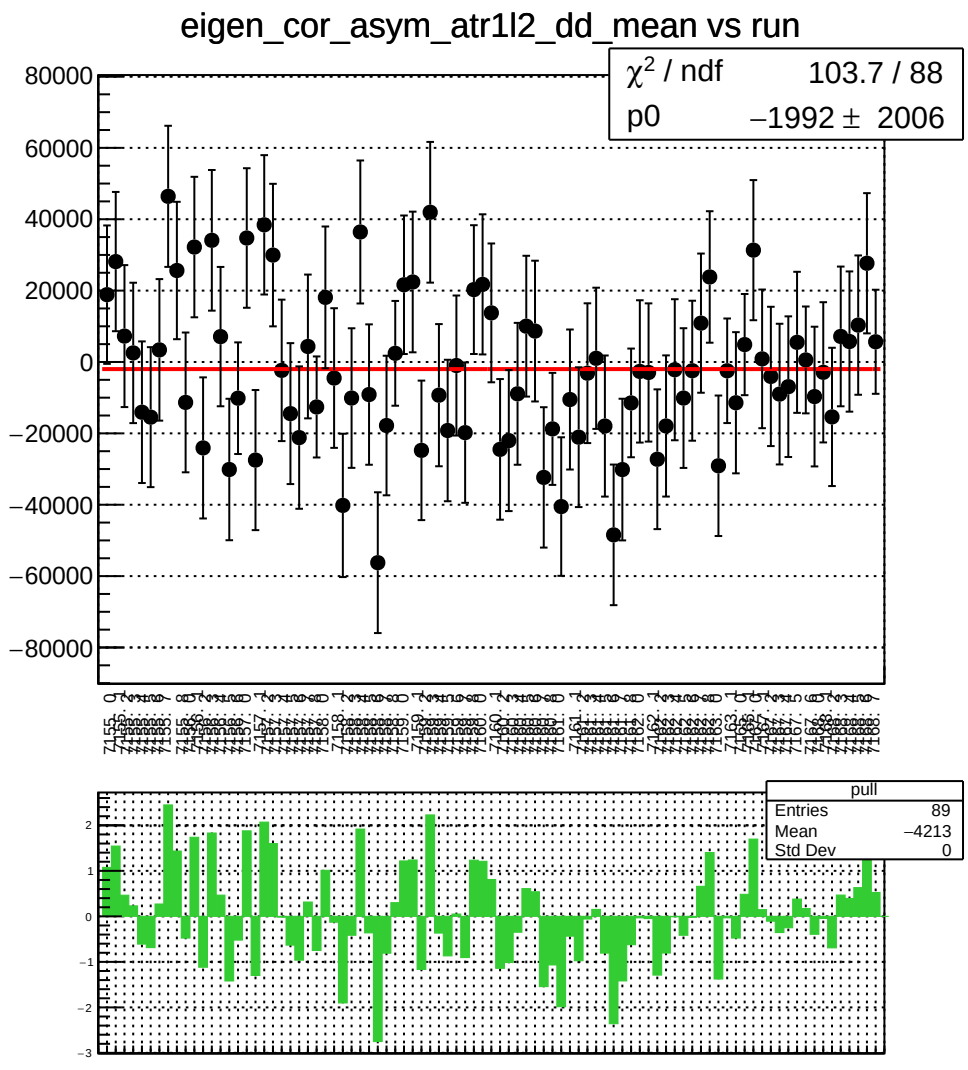

pull1D
Entries 89
Mean 0.0008286
Std Dev 1.079

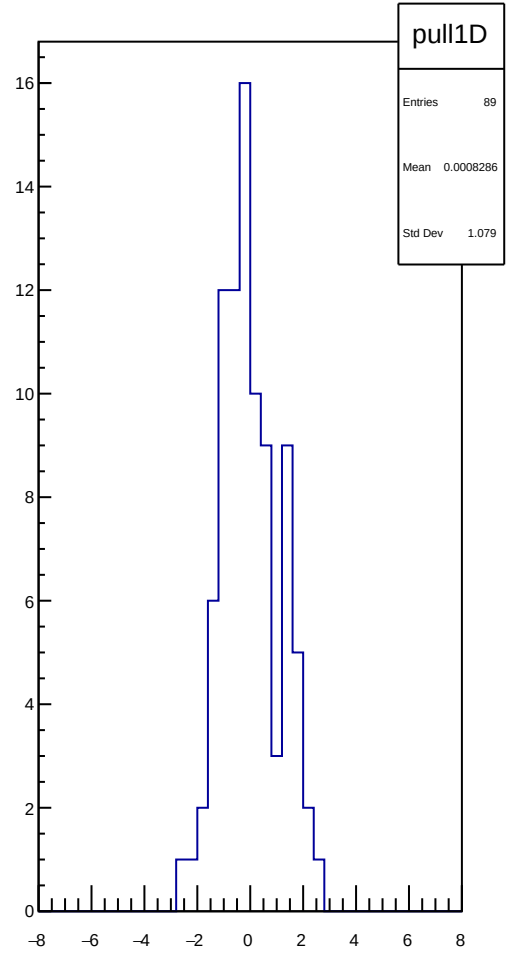

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 113.4 / 88
p0 1866 ± 1.419
1920
1900
1880
1860
1840
1820

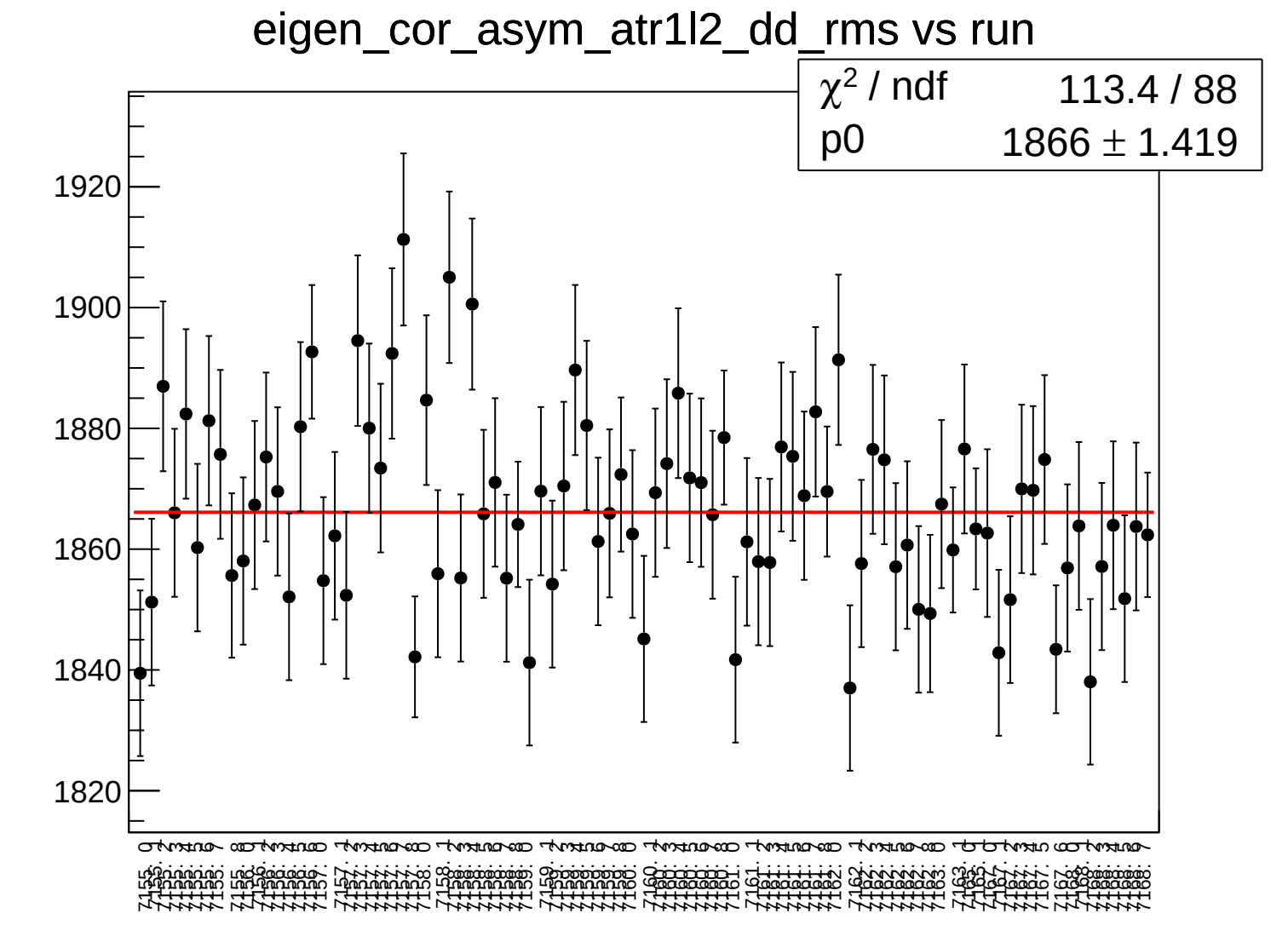

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.59 / 88
p0 1301 ± 8379
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.9
Std Dev 0
2
1
0
−1
−2

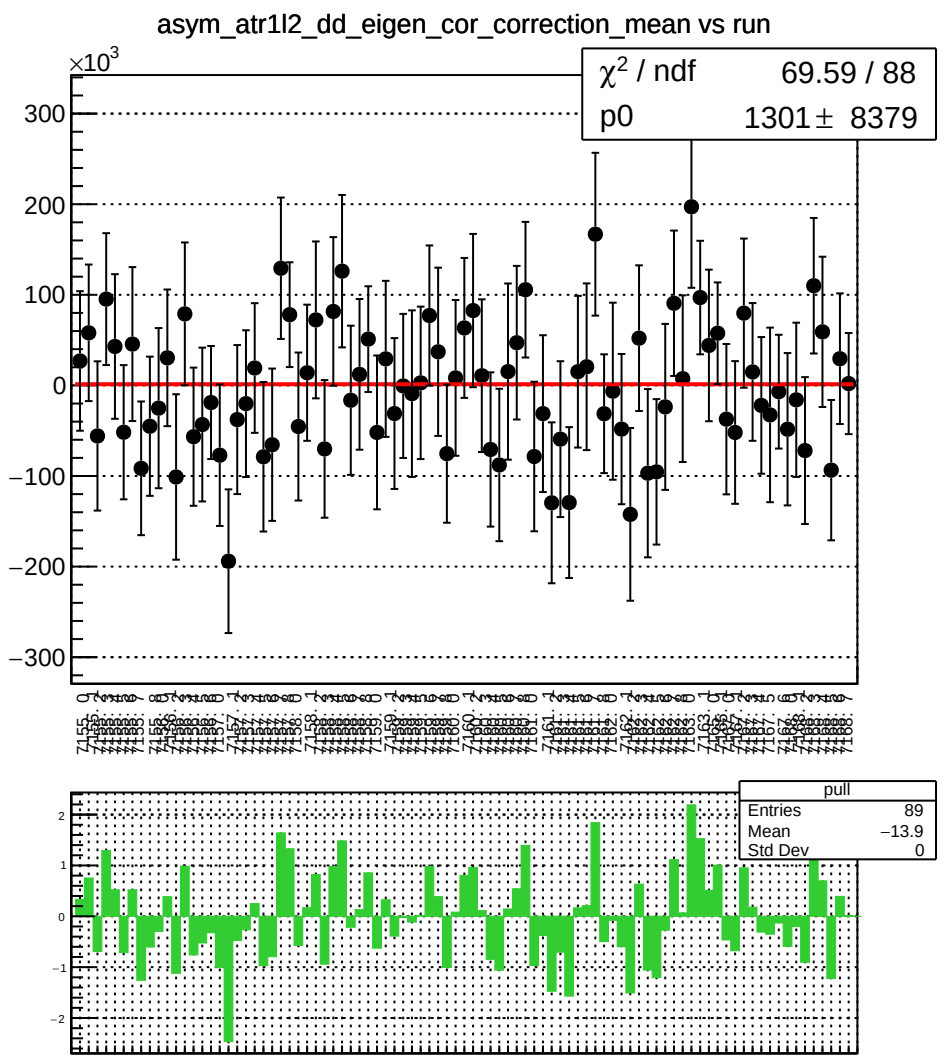

pull1D
Entries 89
Mean −0.02329
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

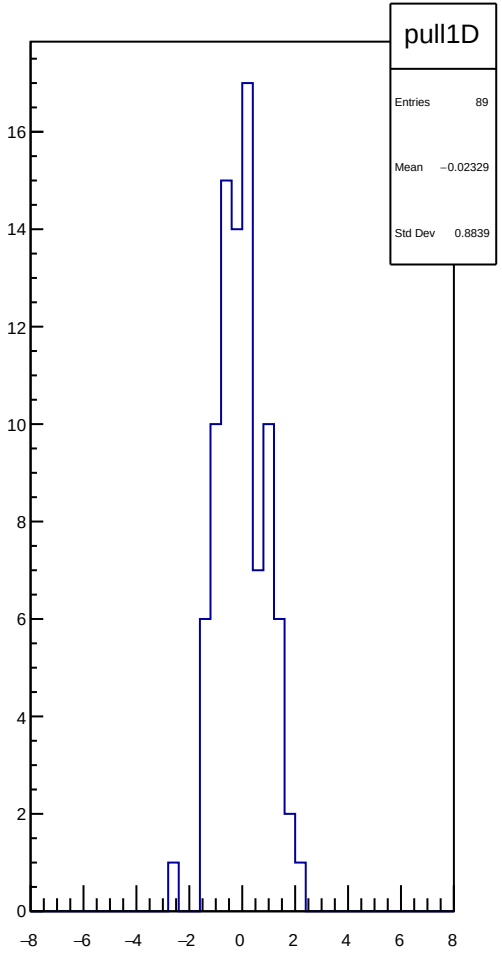

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 8527 / 88
p0 7774 ± 5.925
9500
9000
8500
8000
7500
7000
6500

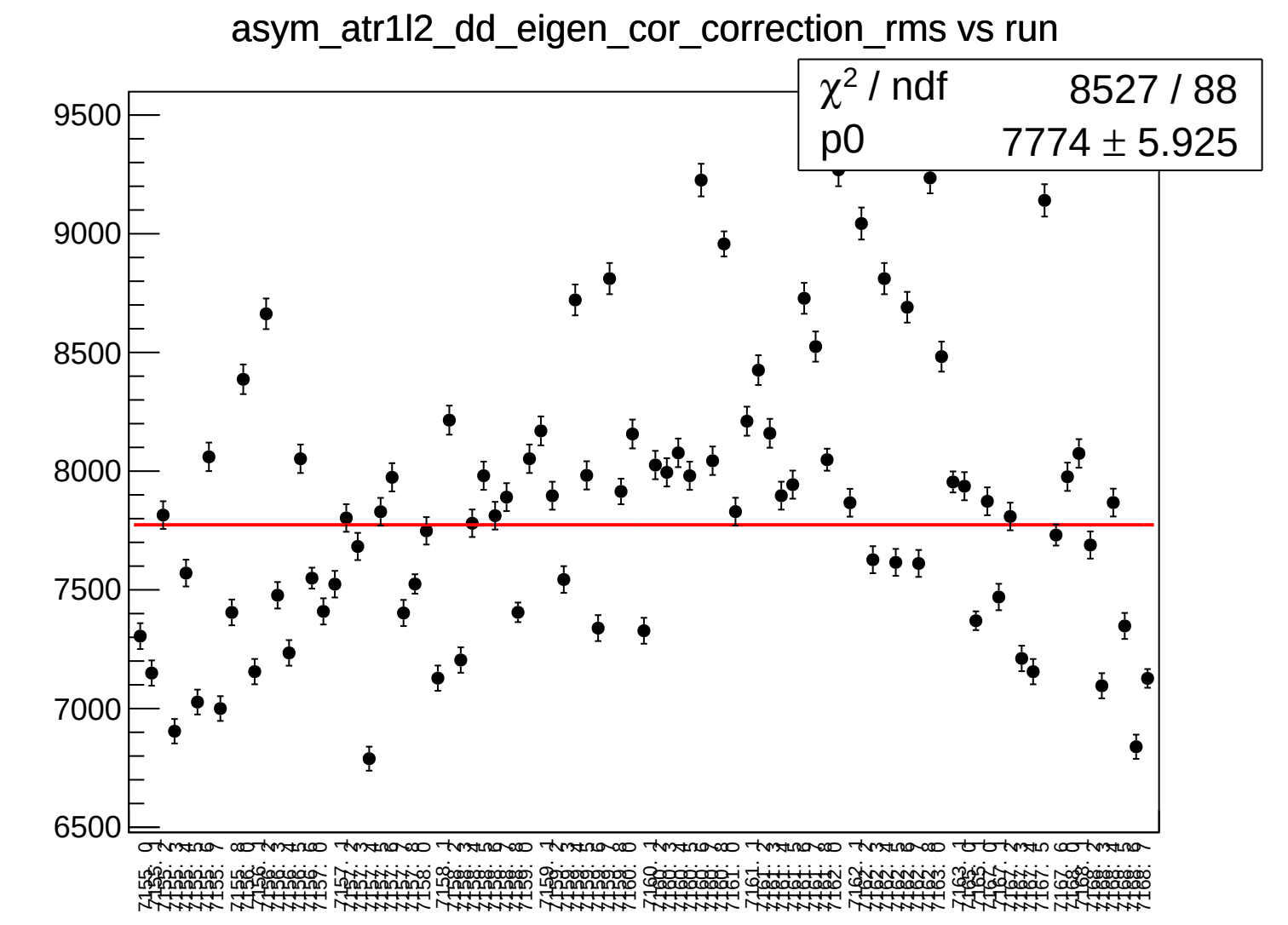

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 103.7 / 88
p0 −1992 ± 2006
pull
Entries 89
Mean −4213
Std Dev 0

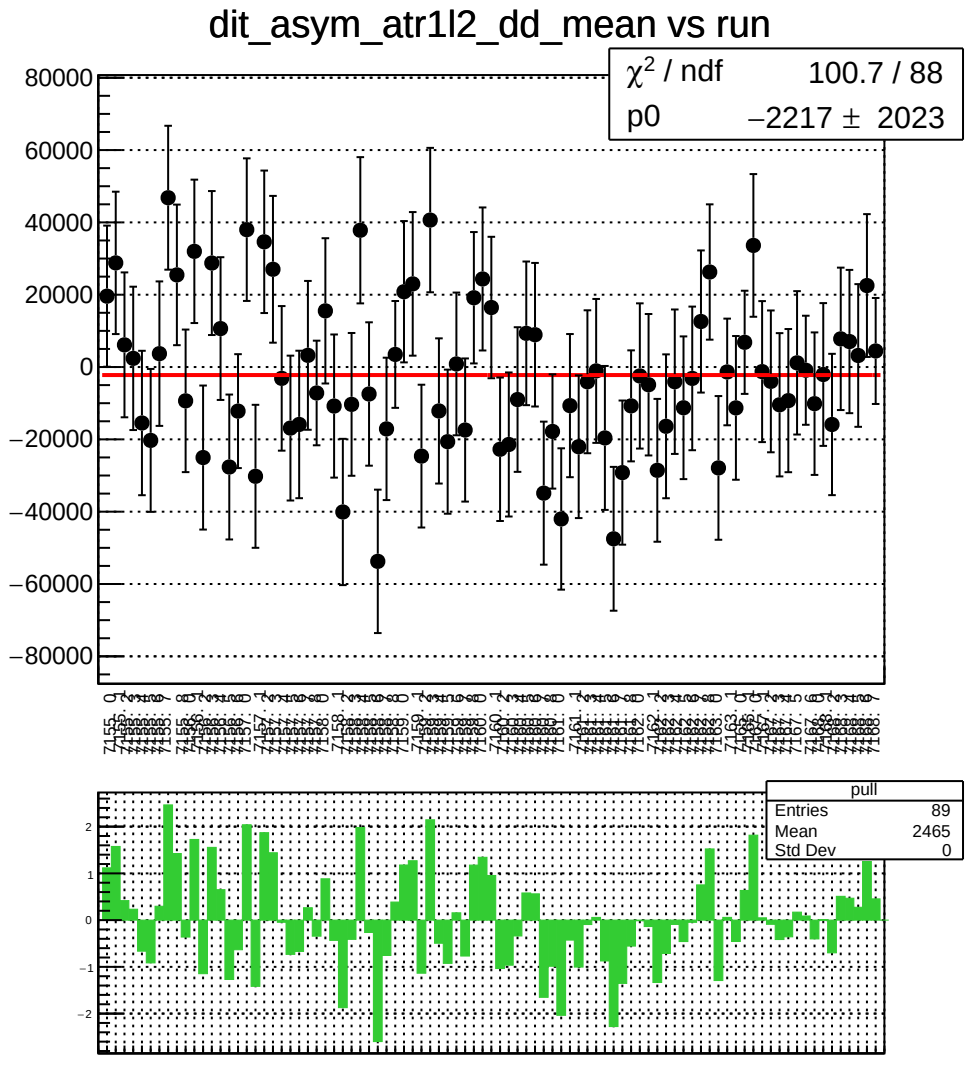

pull1D
Entries 89
Mean 0.0008286
Std Dev 1.079

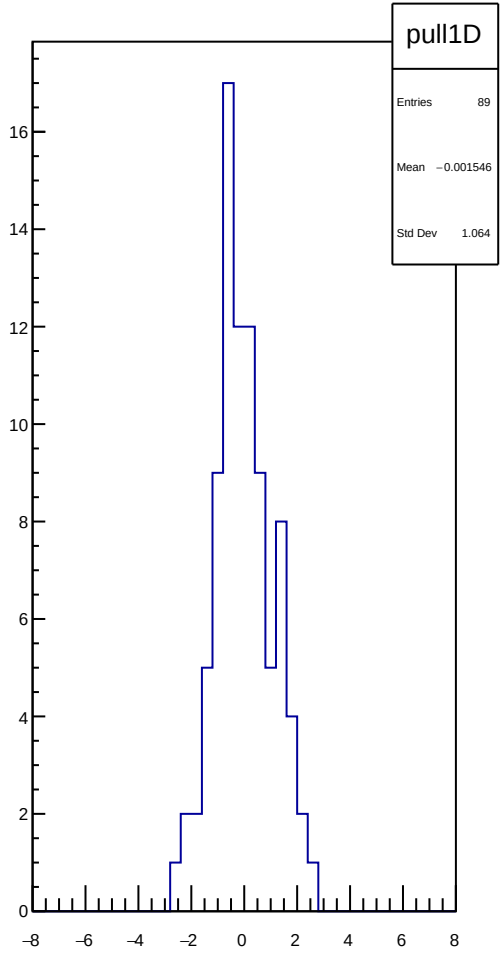

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 113.4 / 88
p0 1866 ± 1.419
1920
1900
1880
1860
1840
1820

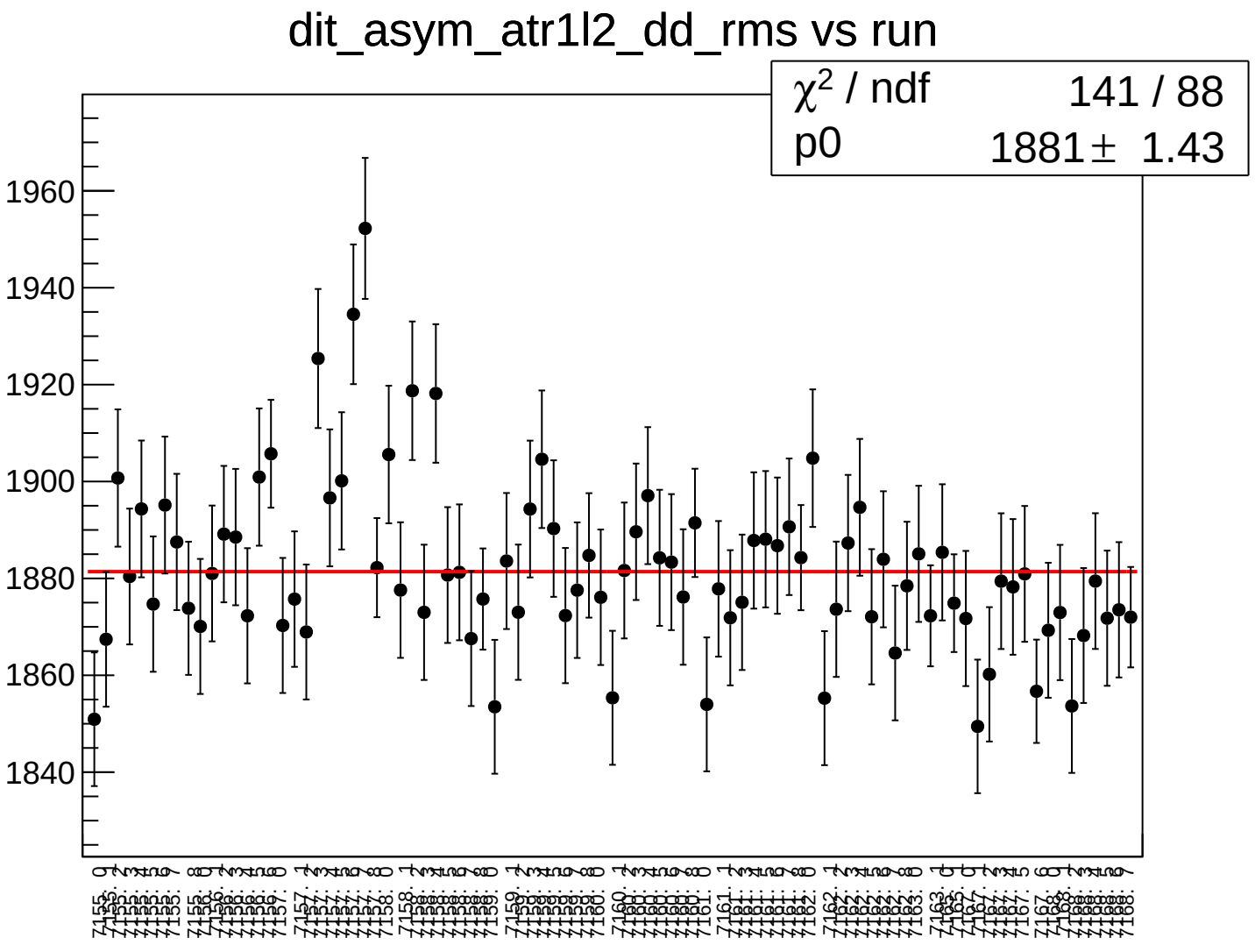

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.59 / 88
p0 1301 ± 8379
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.9
Std Dev 0
2
1
0
−1
−2

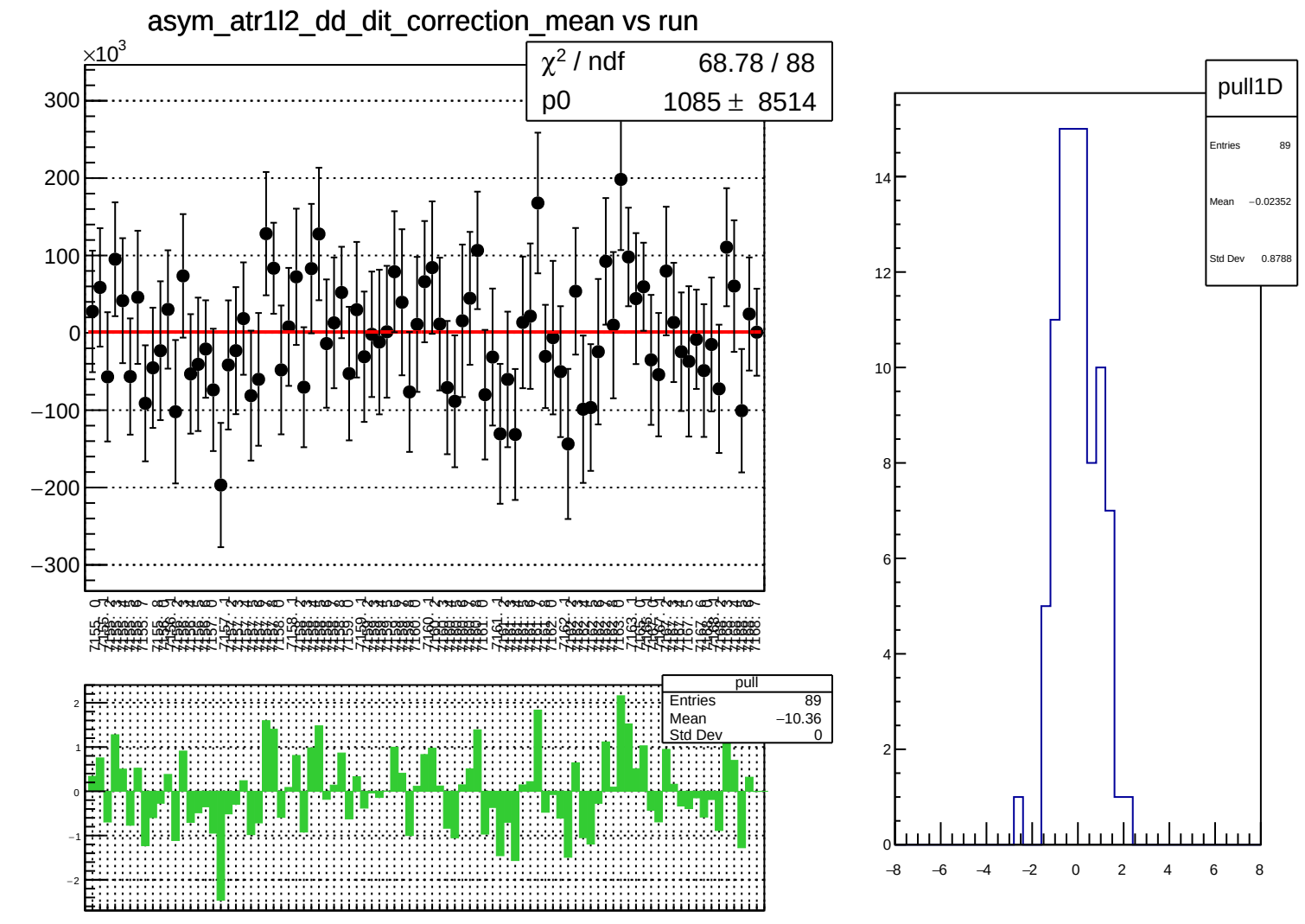

pull1D
Entries 89
Mean −0.02329
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

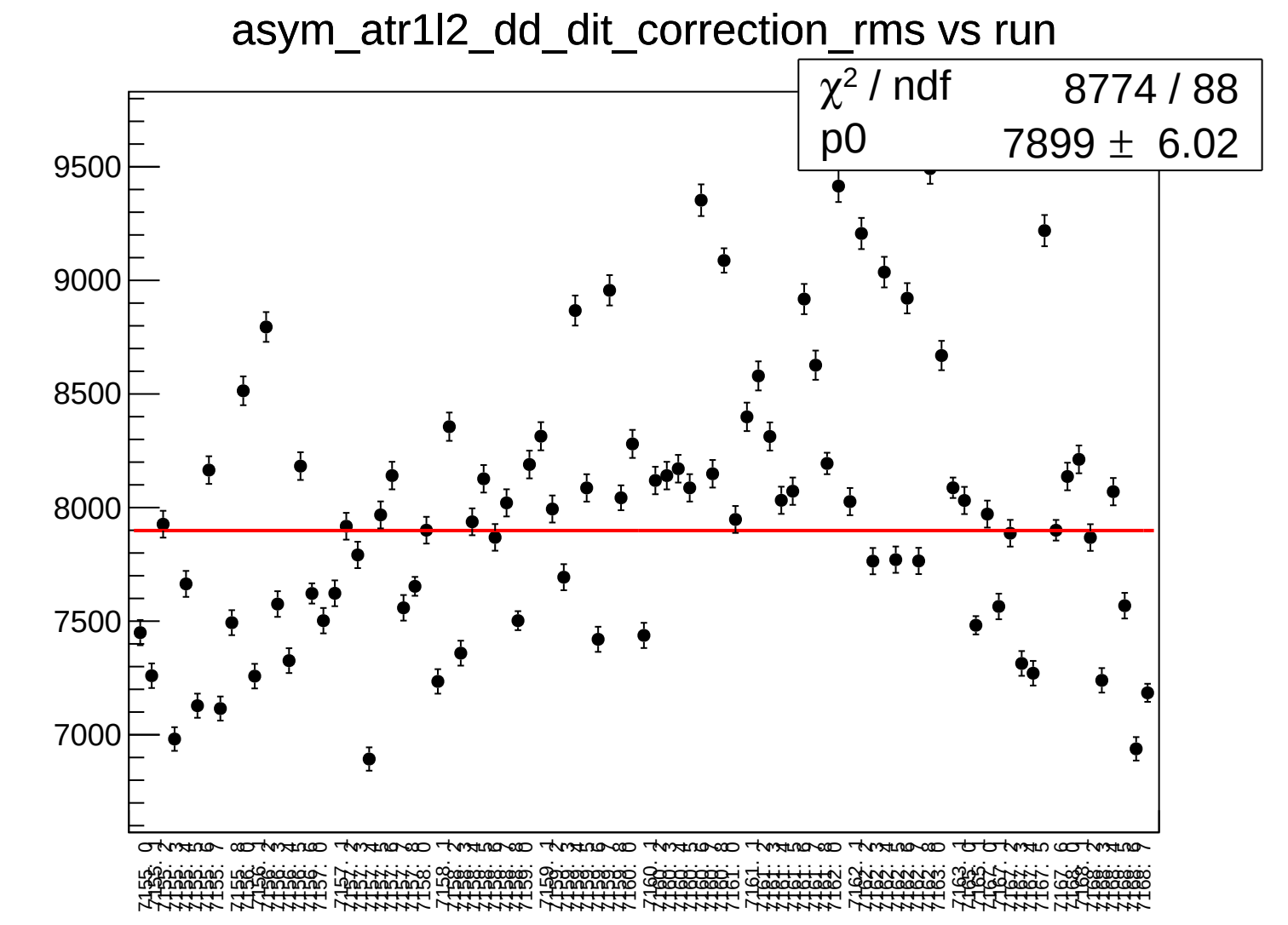

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8527 / 88
p0 7774 ± 5.925
9500
9000
8500
8000
7500
7000
6500

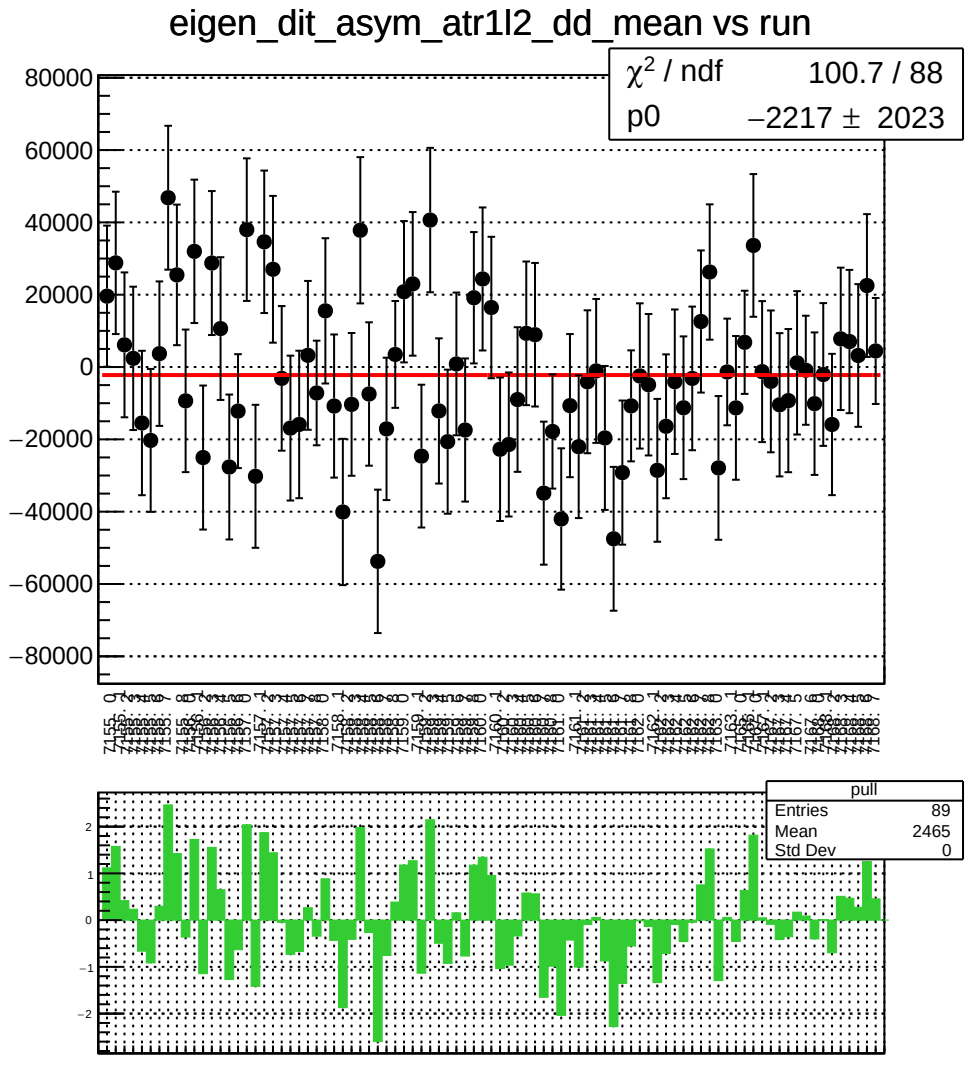

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.7 / 88
p0 −2217 ± 2023
pull
Entries 89
Mean 2465
Std Dev 0

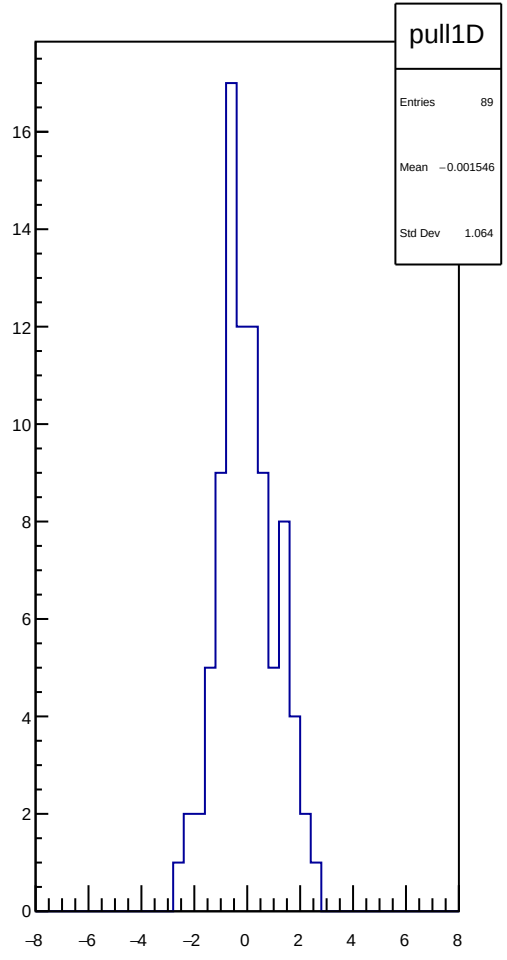

pull1D
Entries 89
Mean −0.001546
Std Dev 1.064

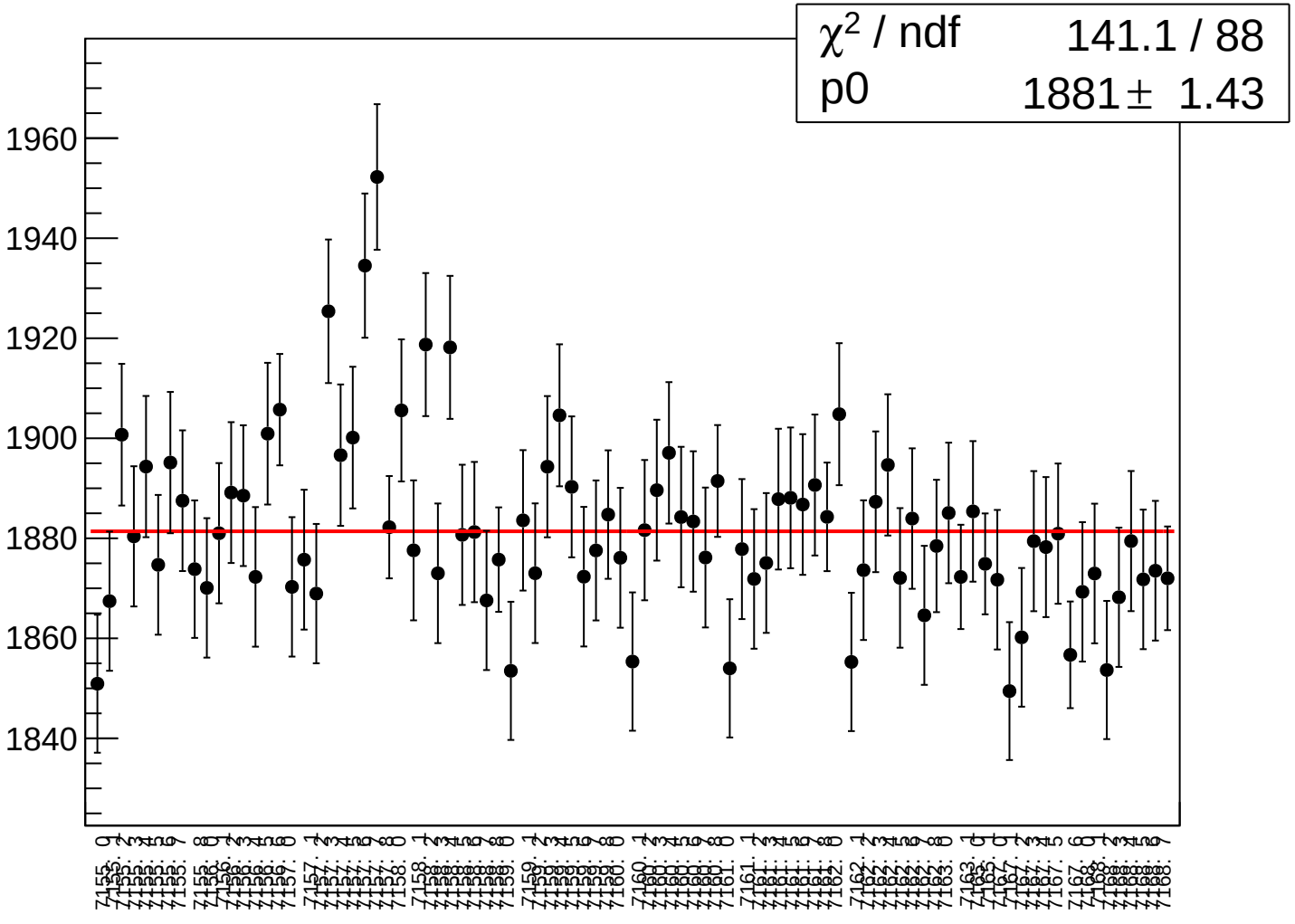

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 141 / 88
p0 1881 ± 1.43
1960
1940
1920
1900
1880
1860
1840

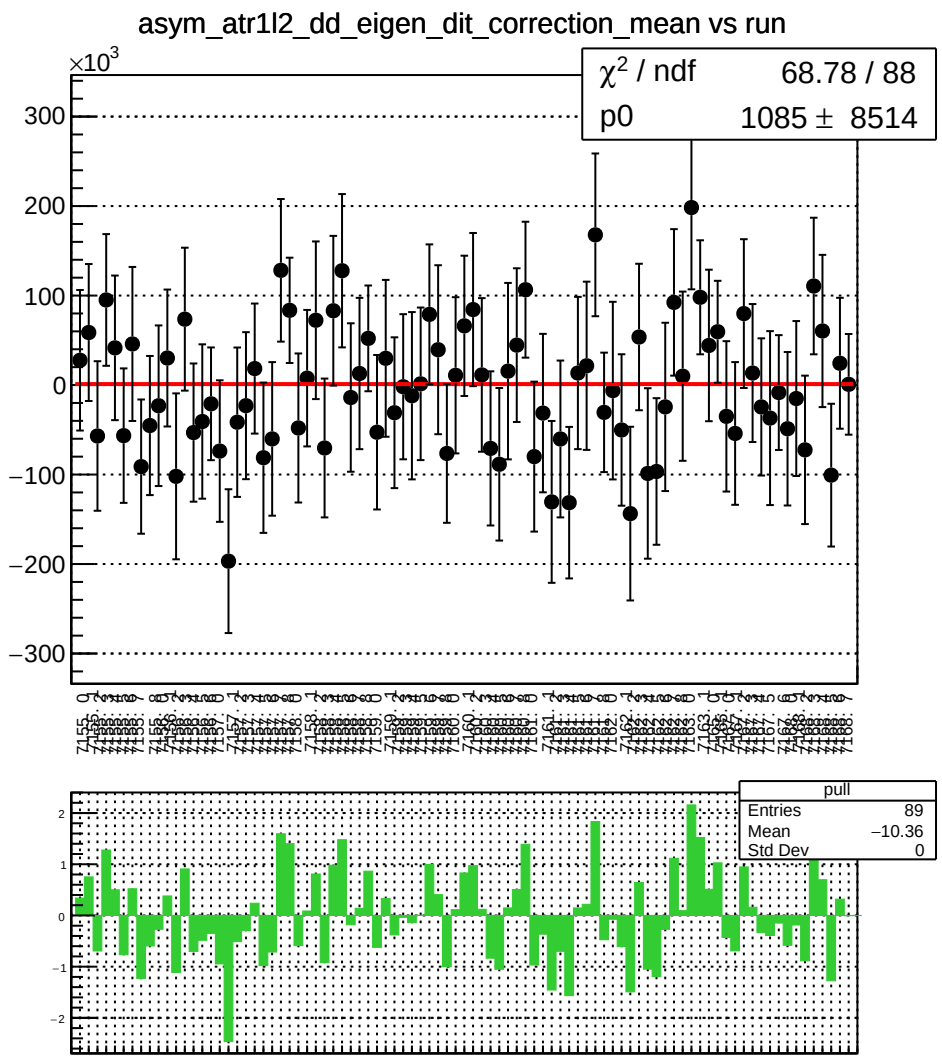

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.78 / 88
p0 1085 ± 8514
pull
Entries 89
Mean −10.36
Std Dev 0
pull1D
Entries 89
Mean −0.02352
Std Dev 0.8788

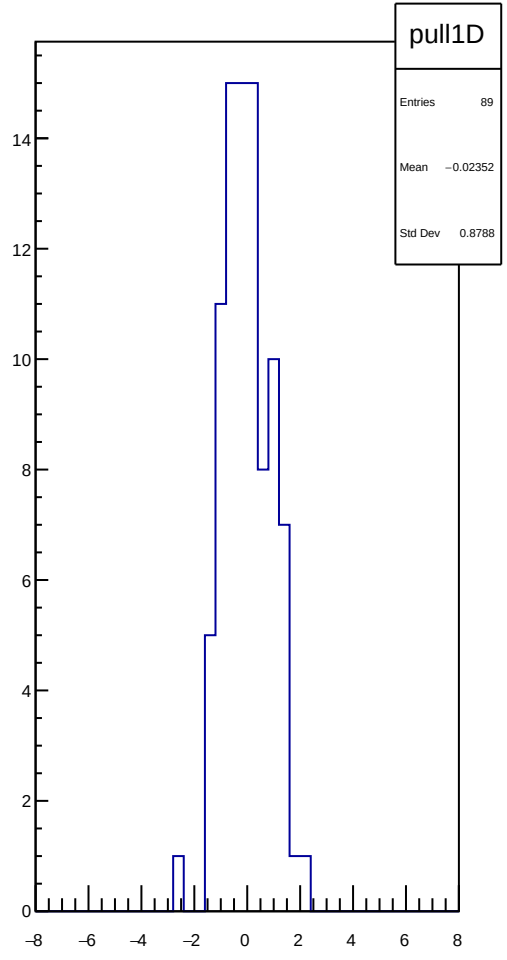

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 8774 / 88
p0 7899 ± 6.02
9500
9000
8500
8000
7500
7000

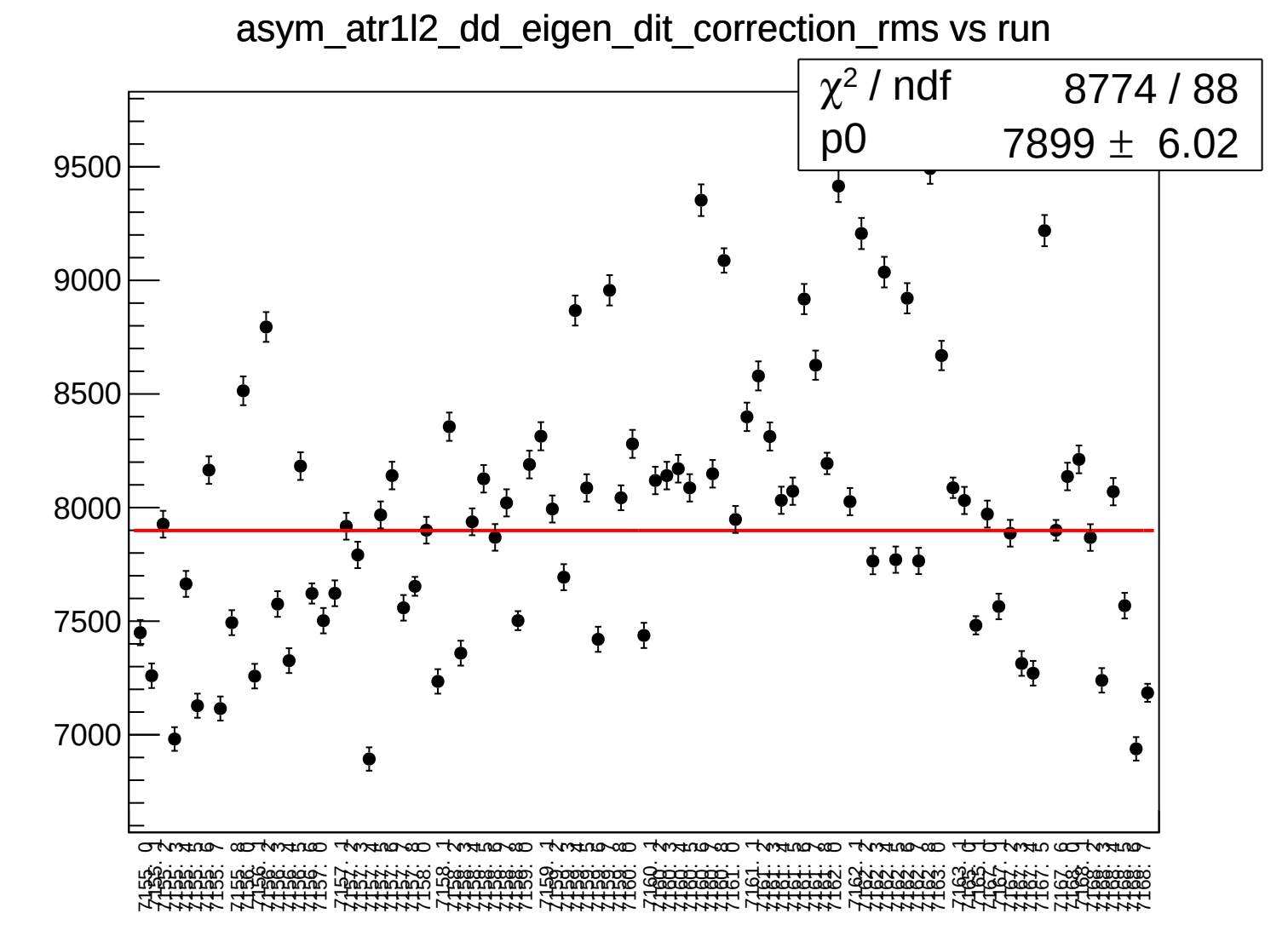

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 100.7 / 88
p0 −2217 ± 2023
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 2465
Std Dev 0
2
1
0
−1
−2

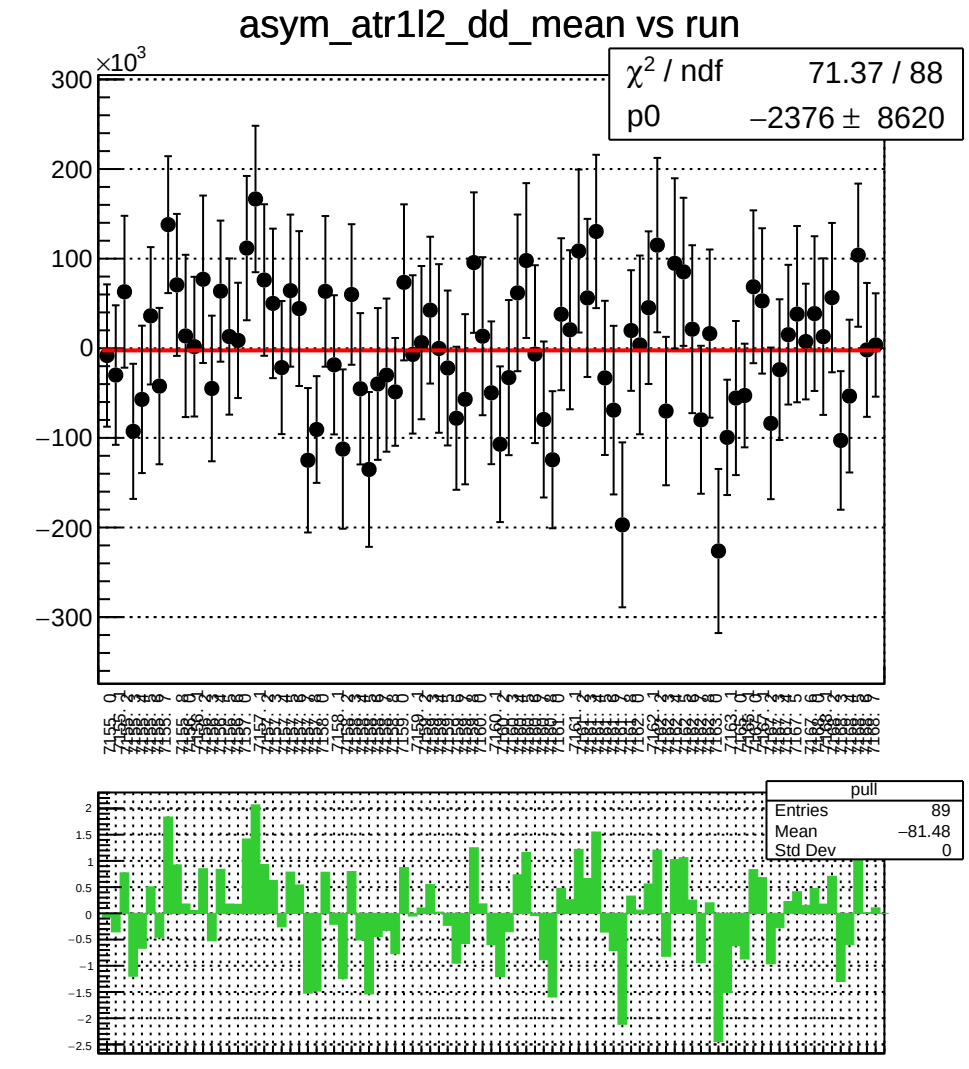

pull1D
Entries 89
Mean −0.001546
Std Dev 1.064
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

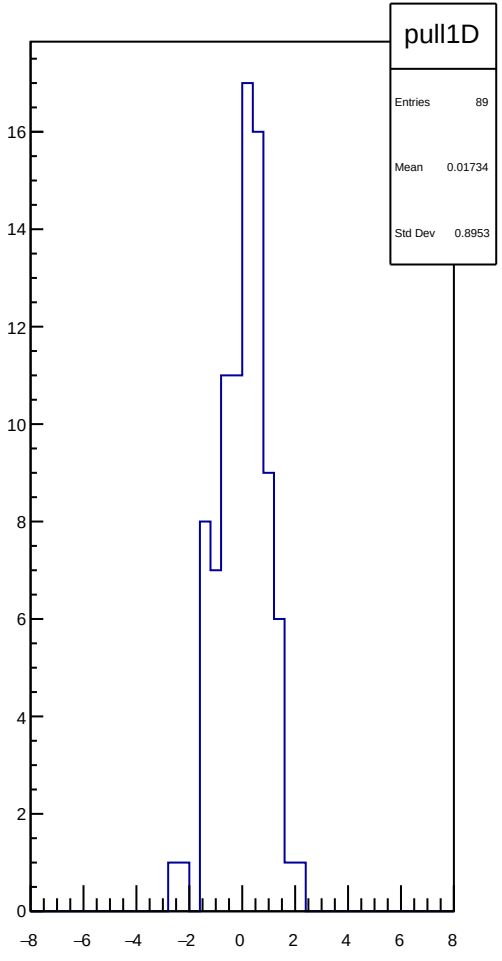

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 141.1 / 88
p0 1881 ± 1.43
1960
1940
1920
1900
1880
1860
1840

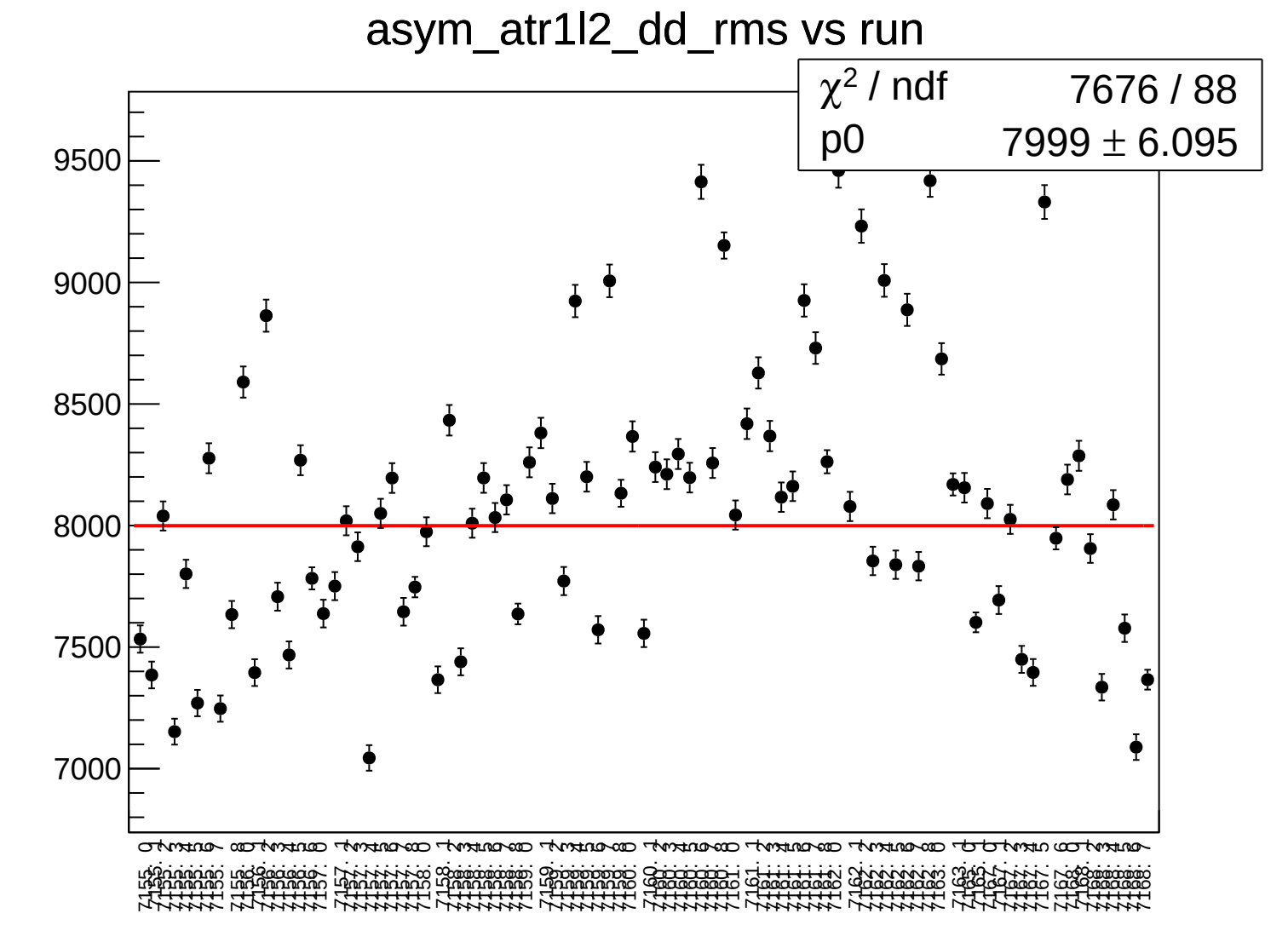

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.78 / 88
p0 1085 ± 8514
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −10.36
Std Dev 0
2
1
0
−1
−2

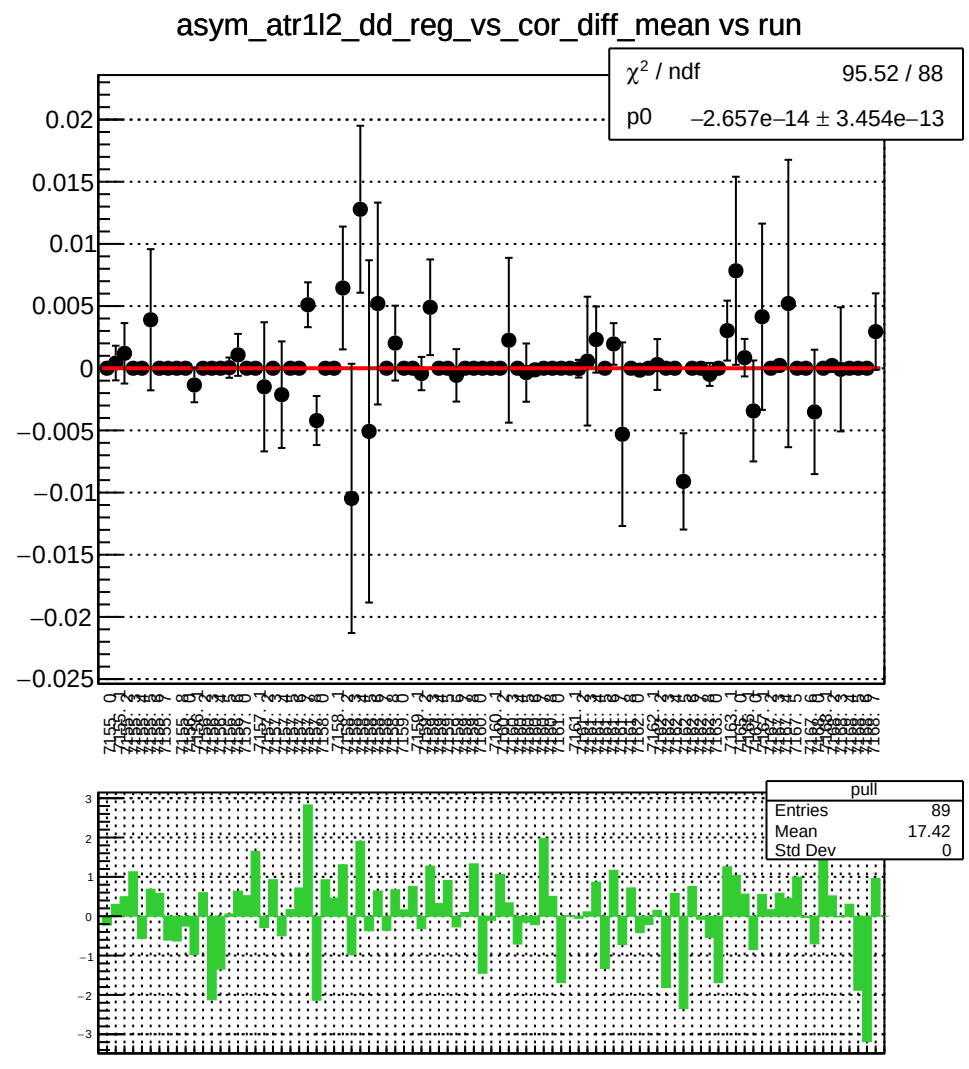

pull1D
Entries 89
Mean −0.02352
Std Dev 0.8788
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

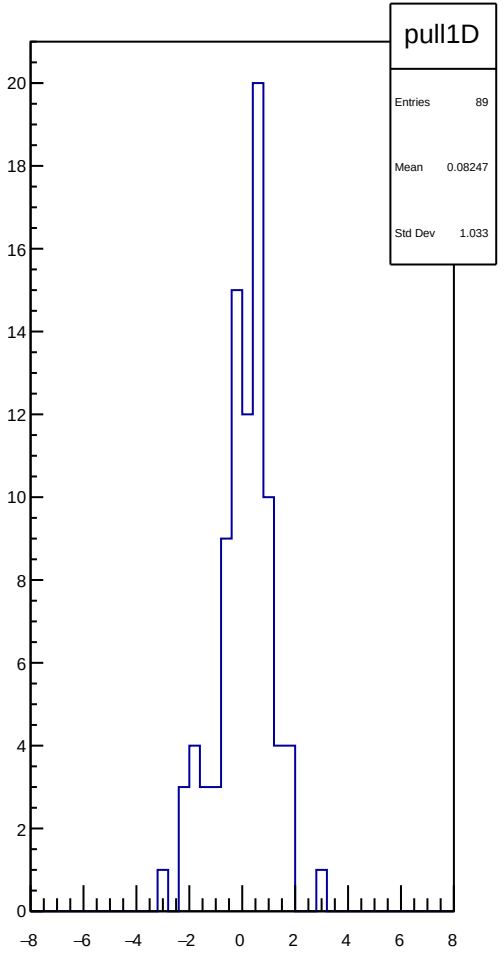

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8774 / 88
p0 7899 ± 6.02
9500
9000
8500
8000
7500
7000

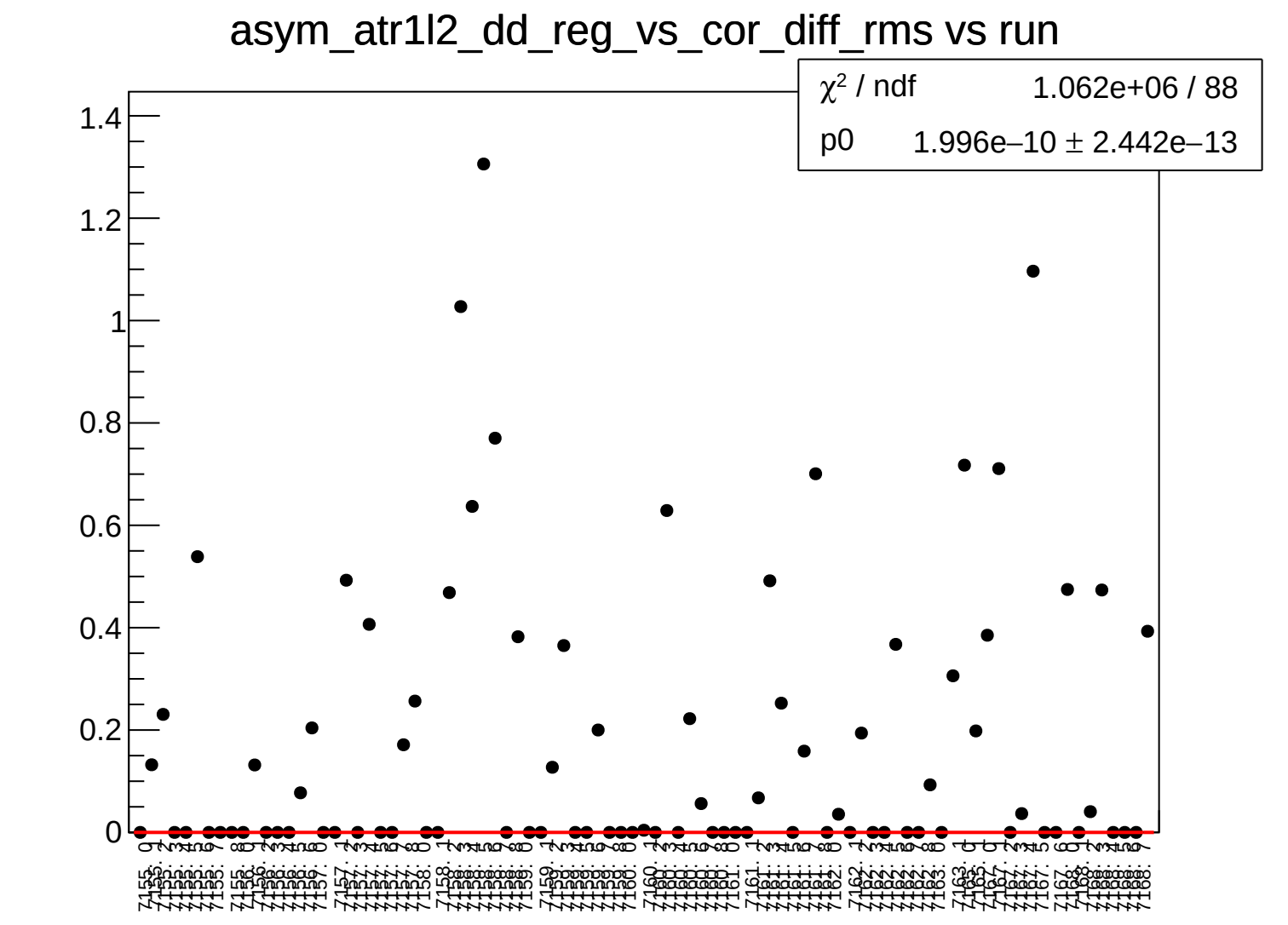

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 71.37 / 88
p0 −2376 ± 8620
pull
Entries 89
Mean −81.48
Std Dev 0

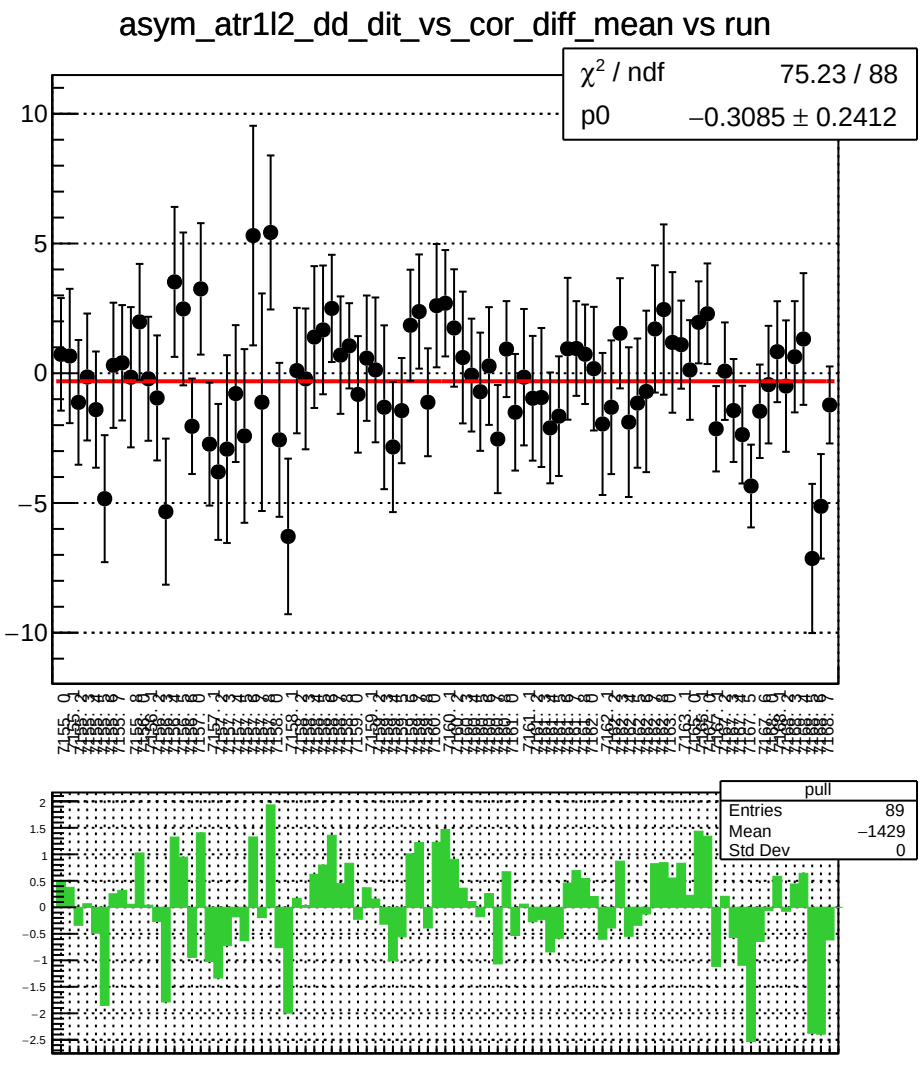

pull1D
Entries 89
Mean 0.01734
Std Dev 0.8953

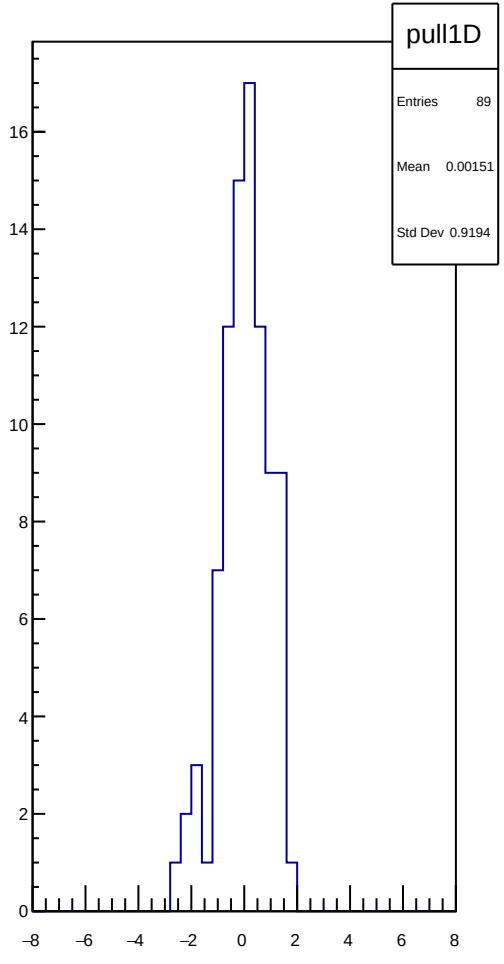

asym_atr1l2_dd_rms vs run
χ^2 / ndf 7676 / 88
p0 7999 ± 6.095
9500
9000
8500
8000
7500
7000

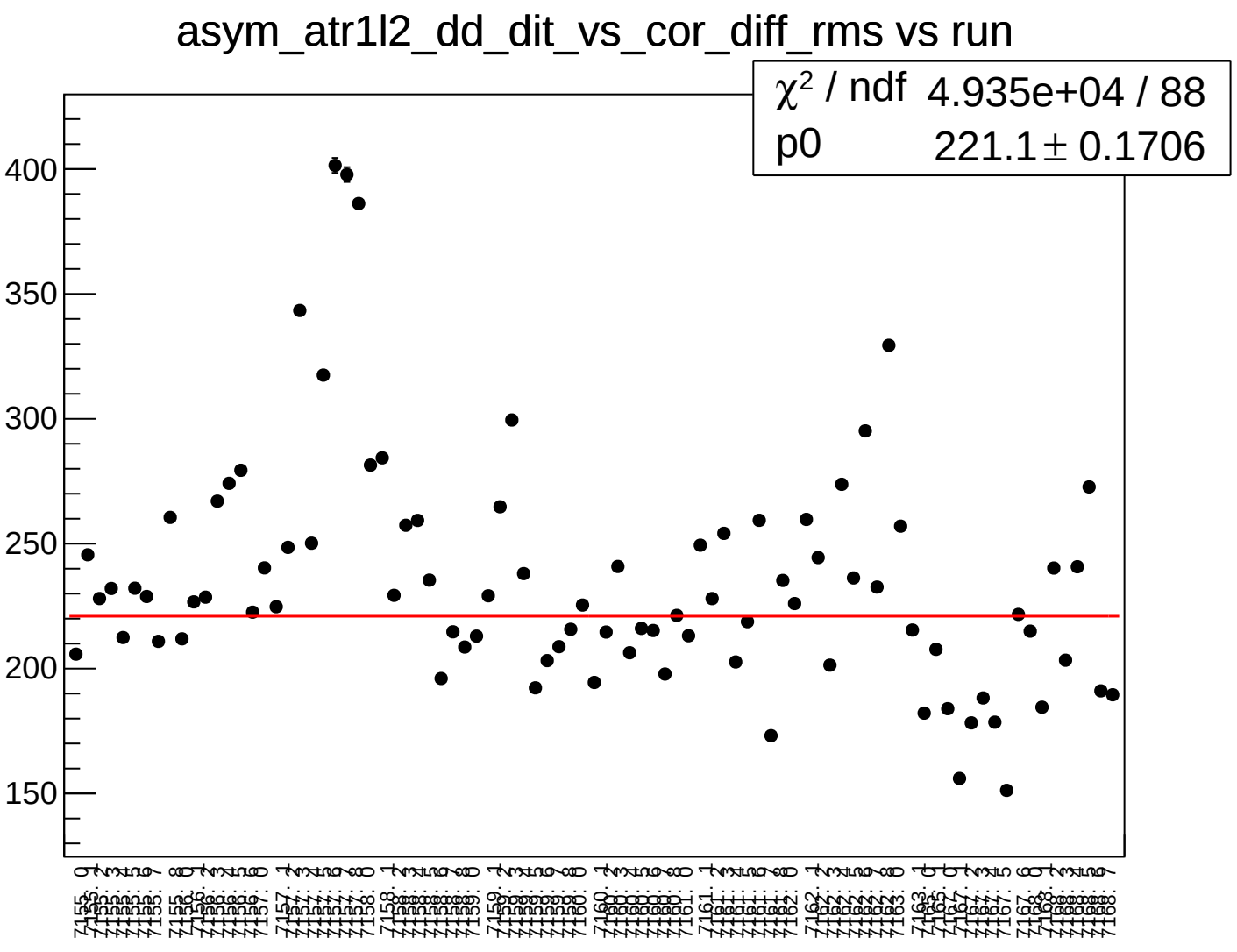

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.52 / 88
p0 −2.657e−14 ± 3.454e−13
pull
Entries 89
Mean 17.42
Std Dev 0

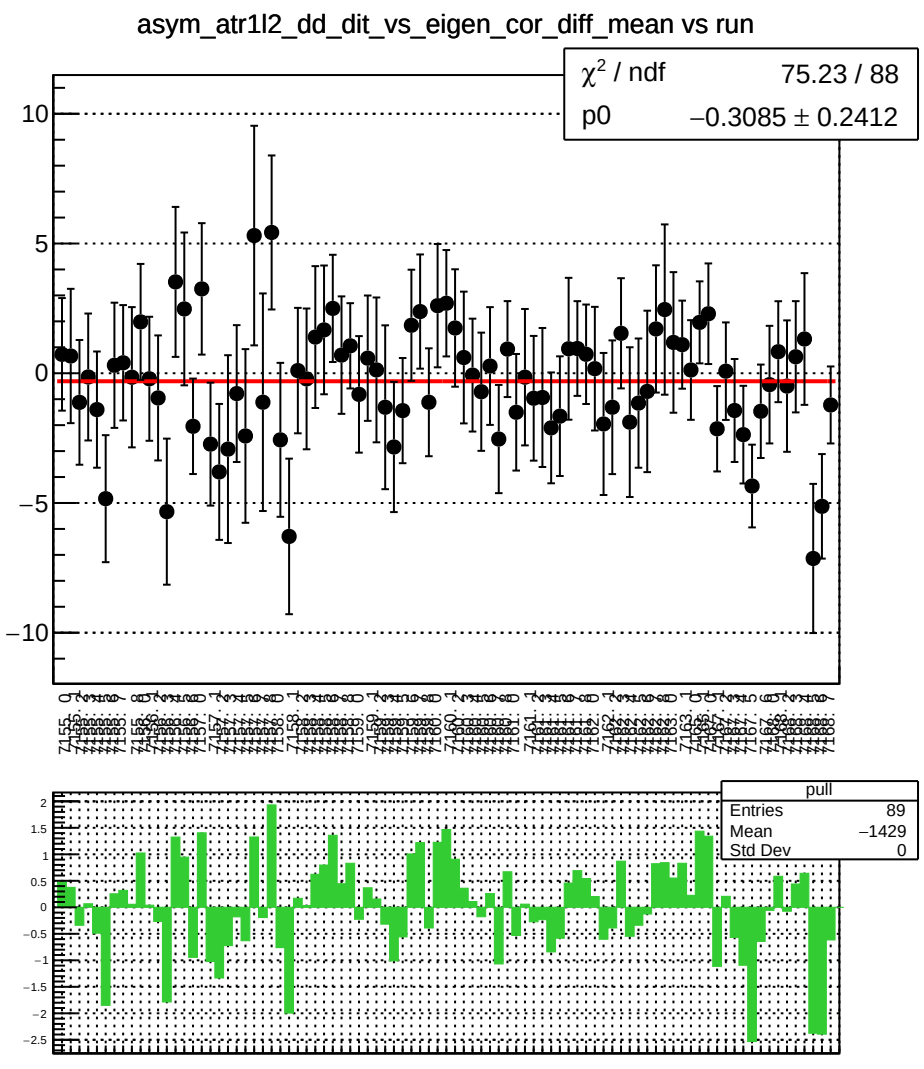

pull1D
Entries 89
Mean 0.08247
Std Dev 1.033

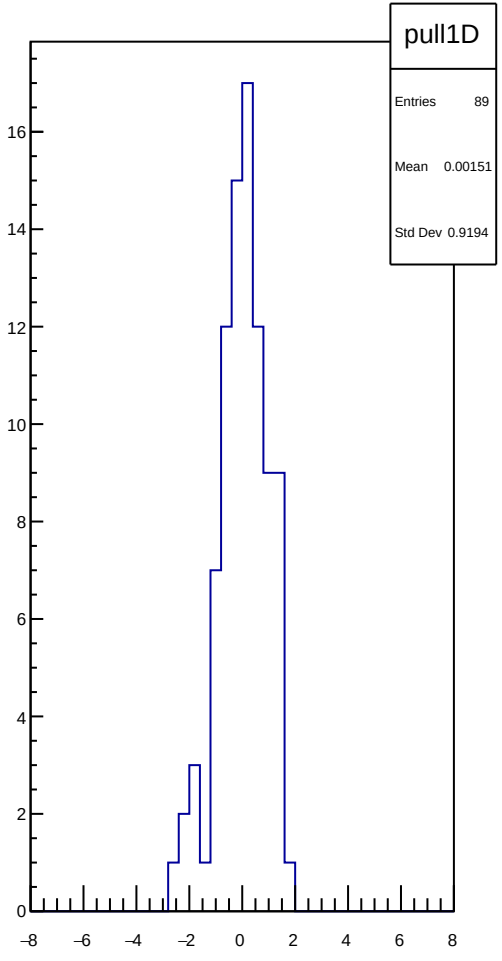

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 88
p0 1.996e−10 ± 2.442e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

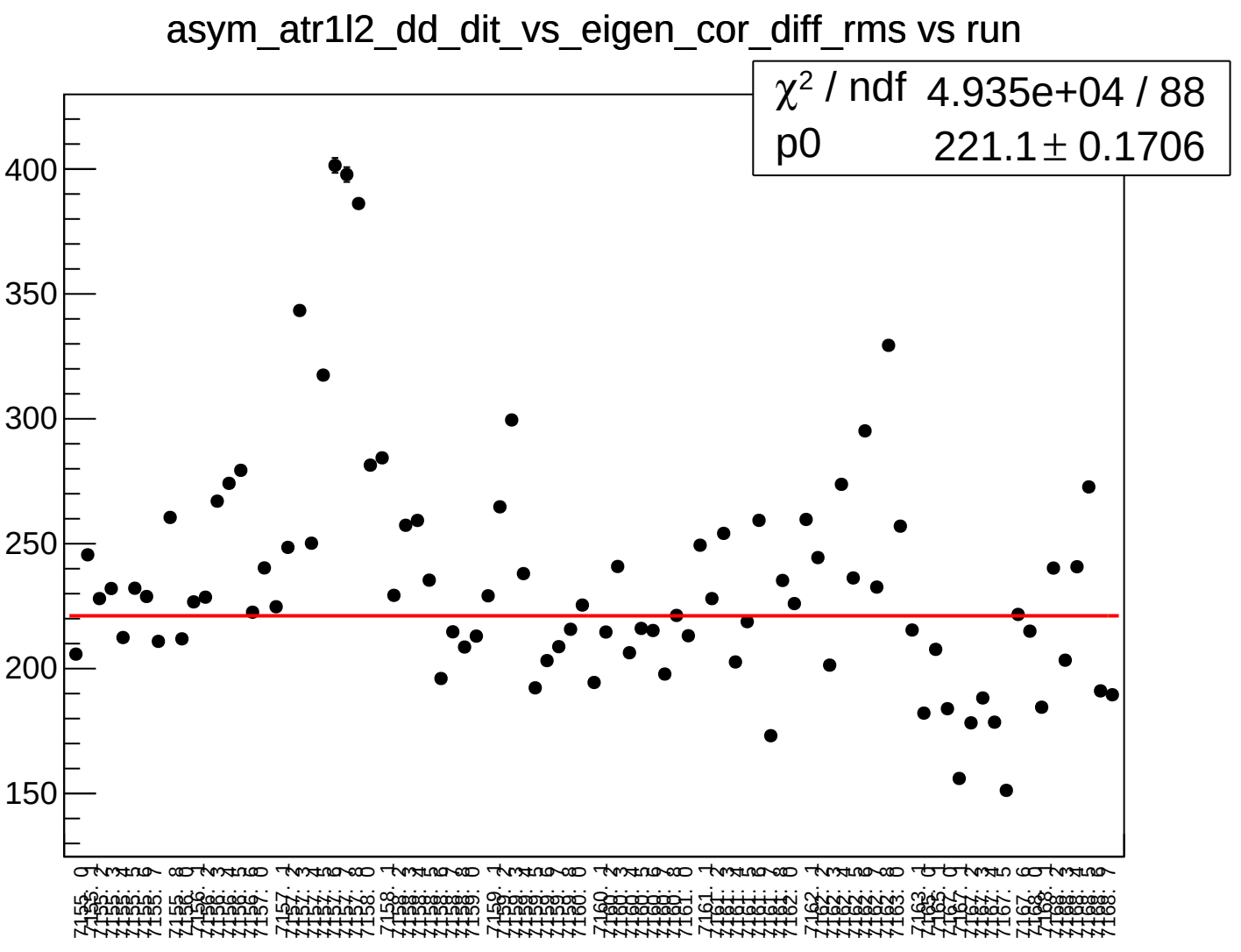

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.23 / 88
p0 −0.3085 ± 0.2412
pull
Entries 89
Mean −1429
Std Dev 0

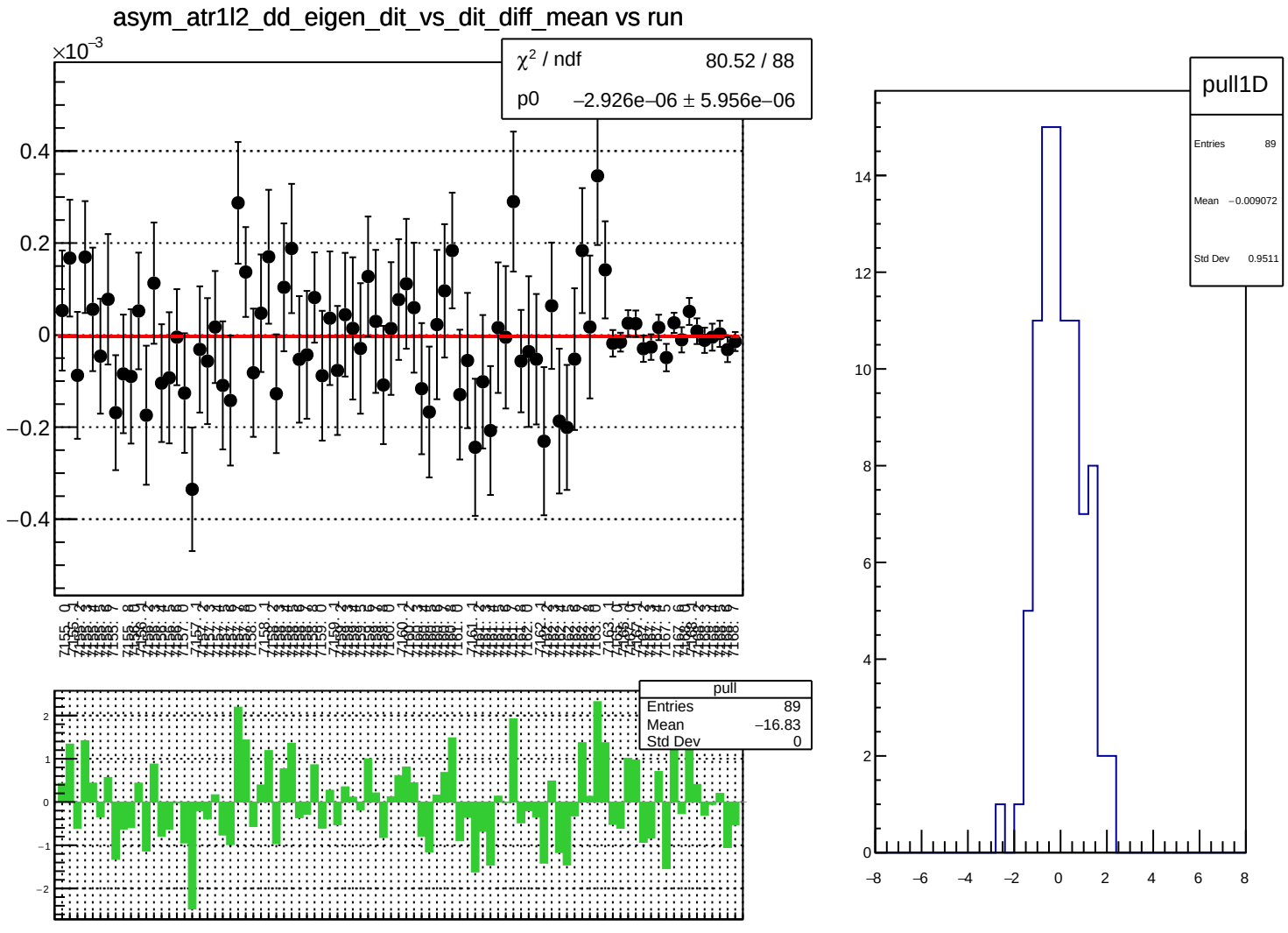

pull1D
Entries 89
Mean 0.00151
Std Dev 0.9194

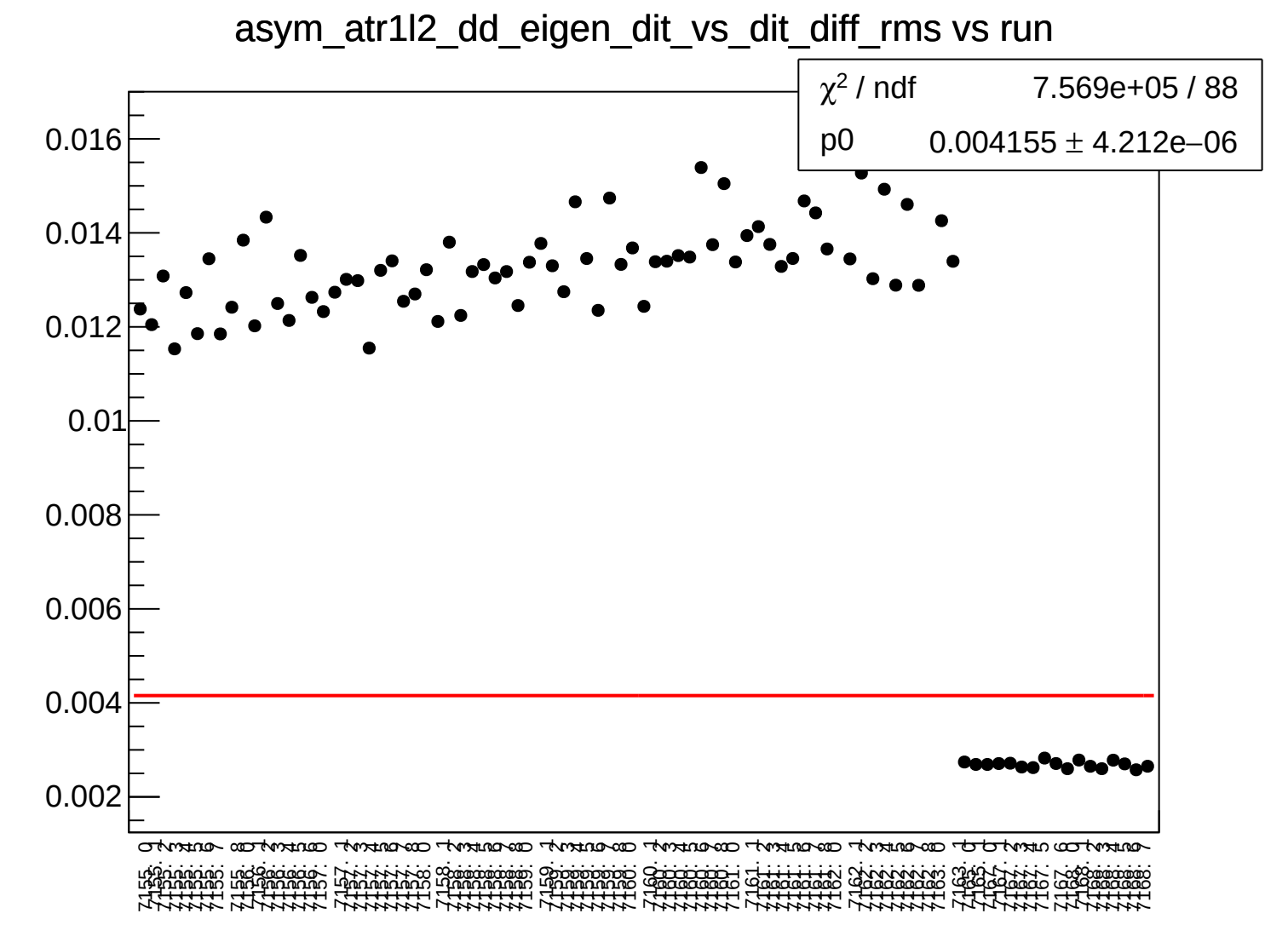

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.935e+04 / 88
p0 221.1 ± 0.1706
400
350
300
250
200
150

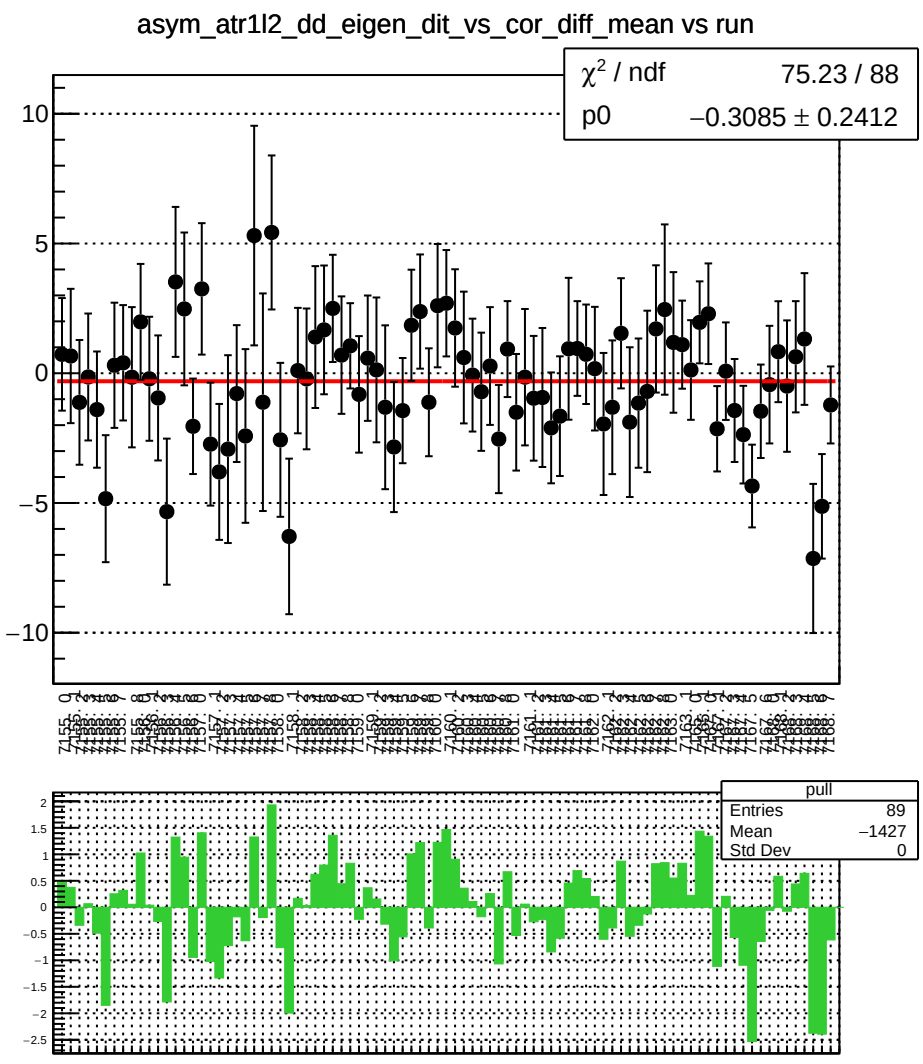

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.23 / 88
p0 −0.3085 ± 0.2412
pull
Entries 89
Mean −1429
Std Dev 0

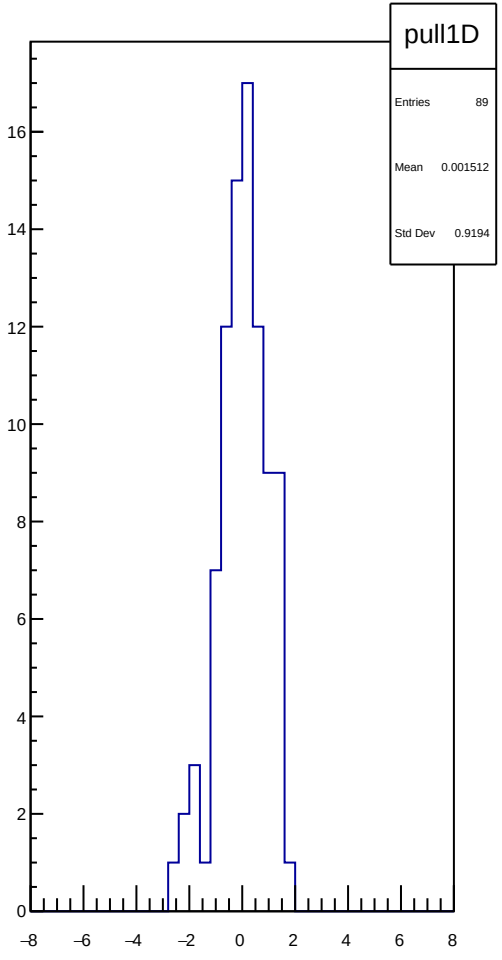

pull1D
Entries 89
Mean 0.00151
Std Dev 0.9194

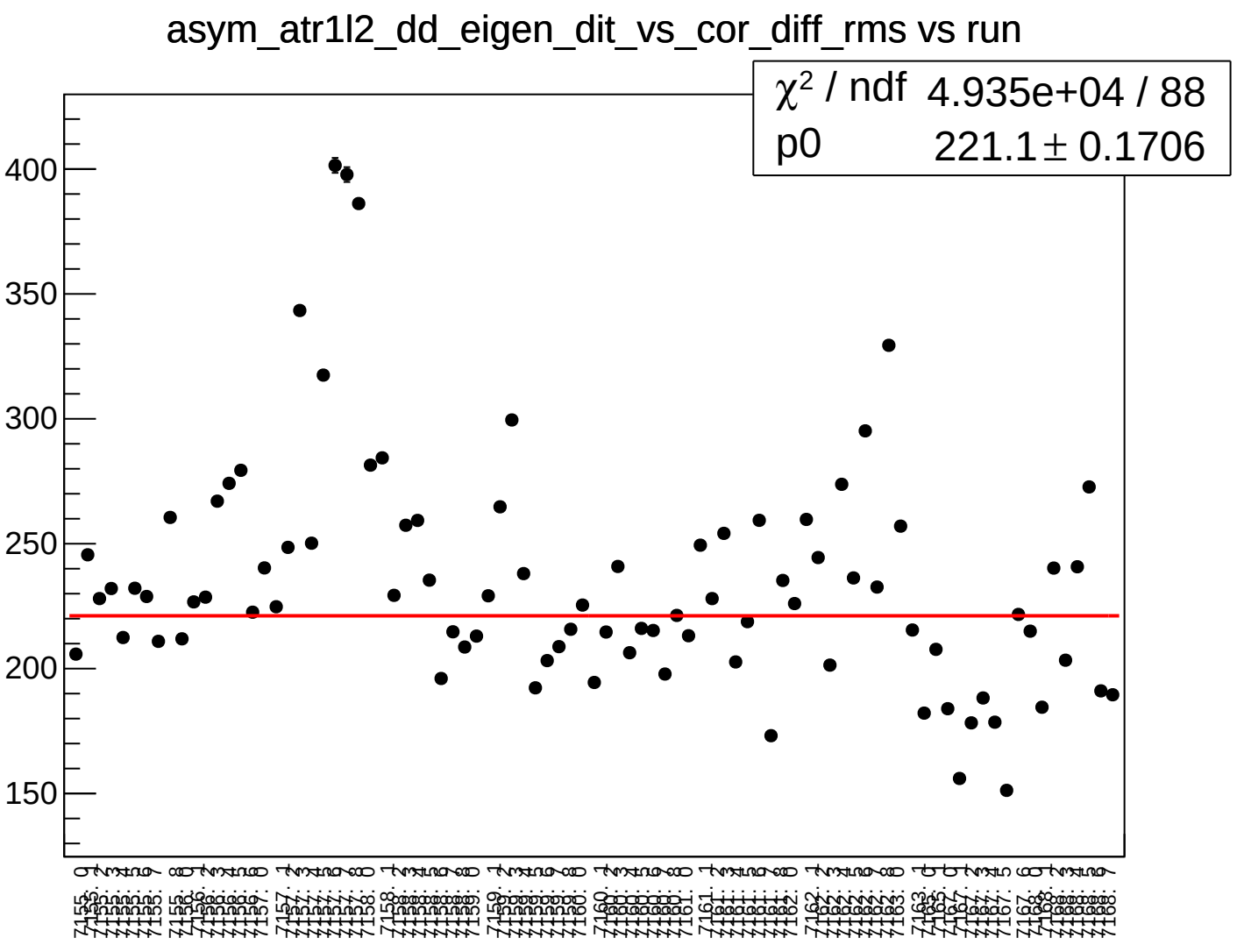

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.935e+04 / 88
p0 221.1 ± 0.1706
400
350
300
250
200
150

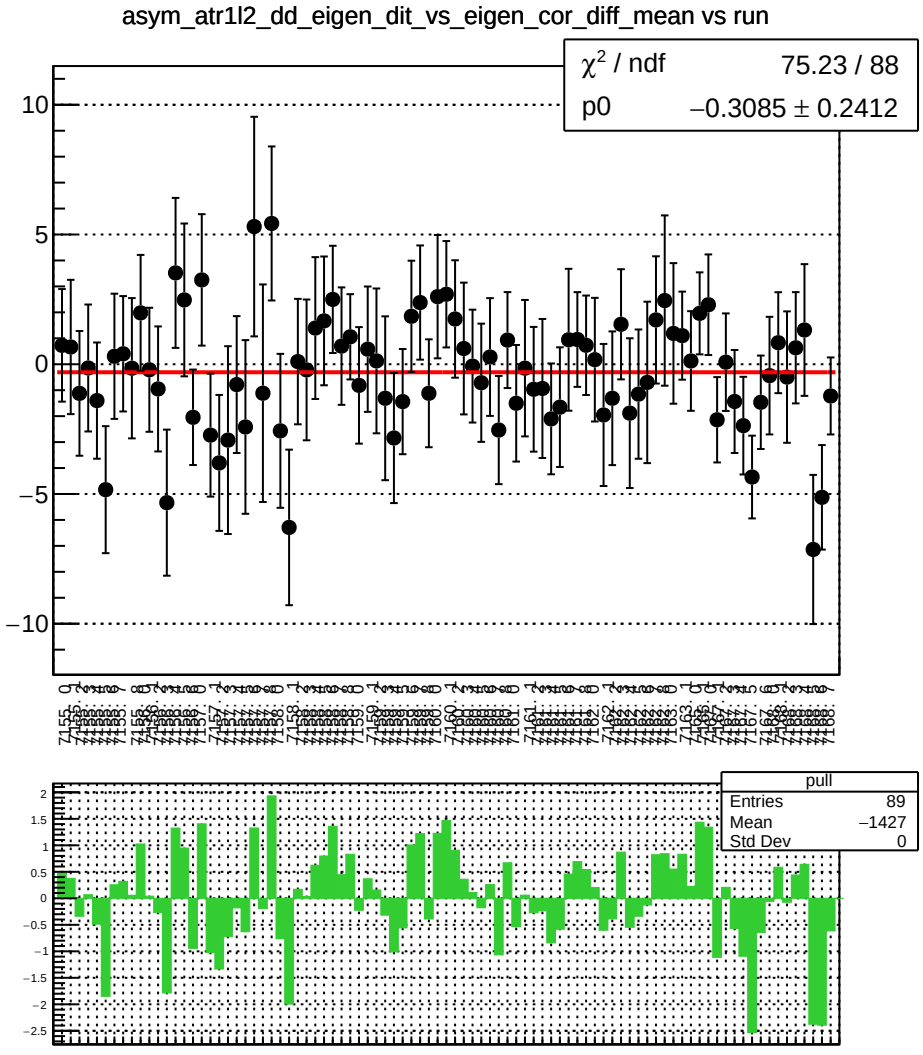

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.52 / 88
p0 −2.926e−06 ± 5.956e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean −16.83
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.009072
Std Dev 0.9511
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

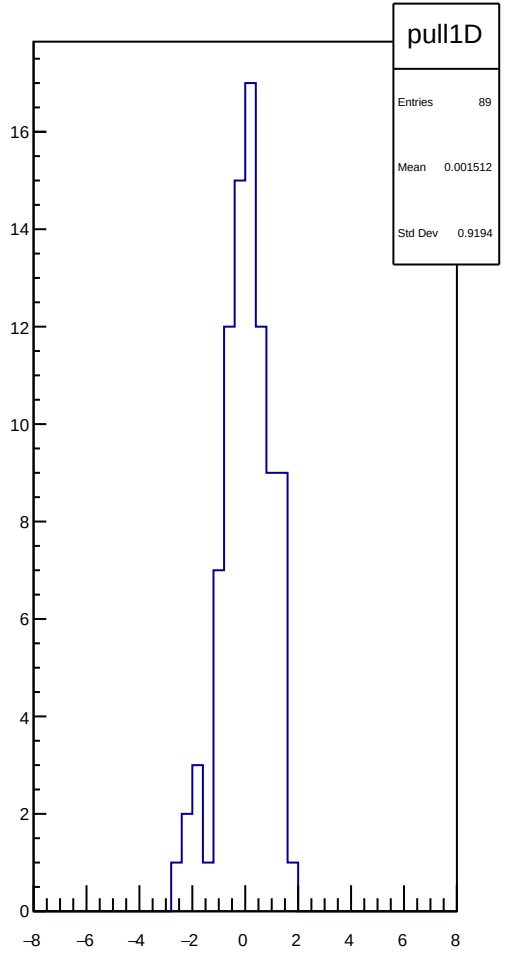

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 7.569e+05 / 88
p0 0.004155 ± 4.212e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

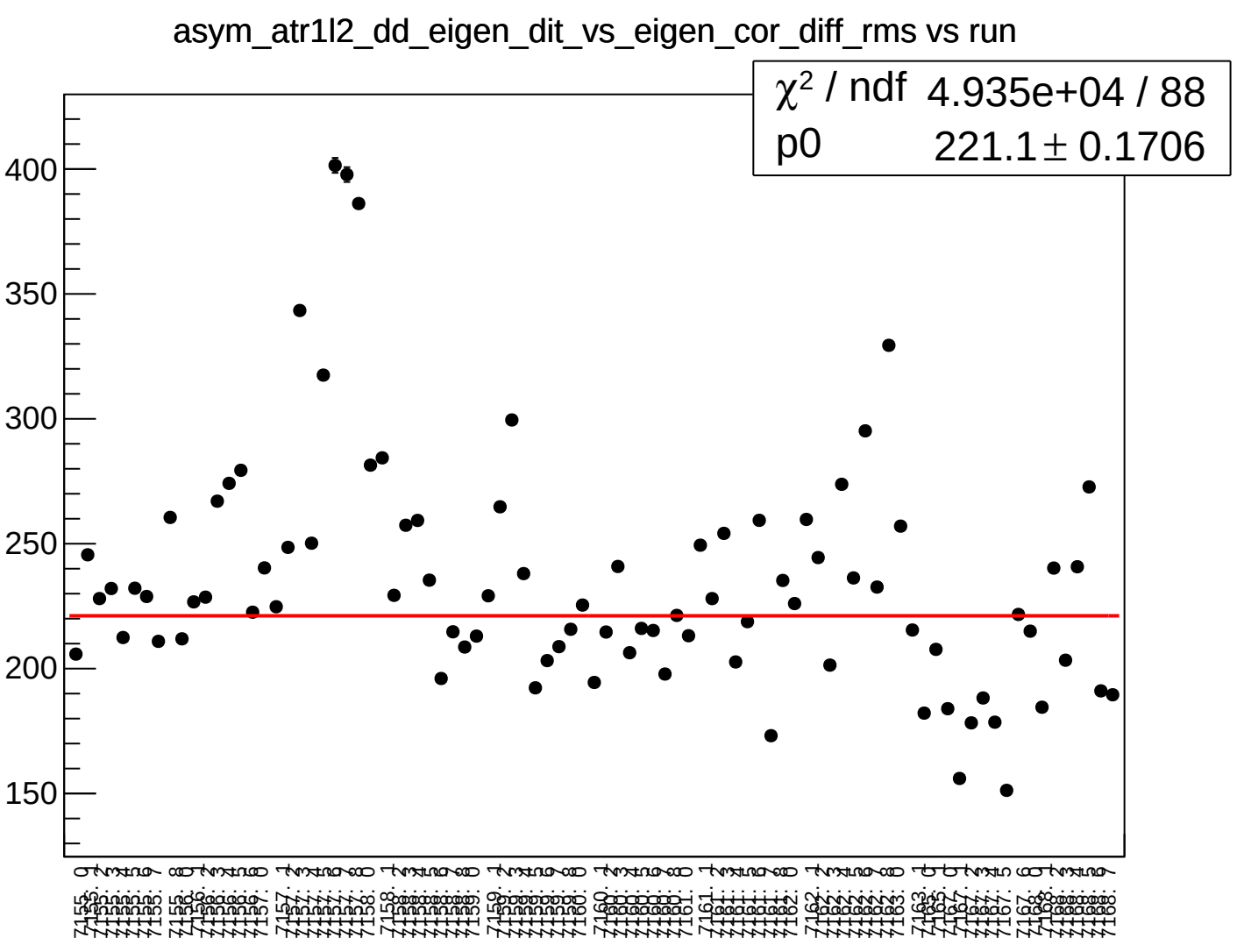

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.23 / 88
p0 −0.3085 ± 0.2412
pull
Entries 89
Mean −1427
Std Dev 0

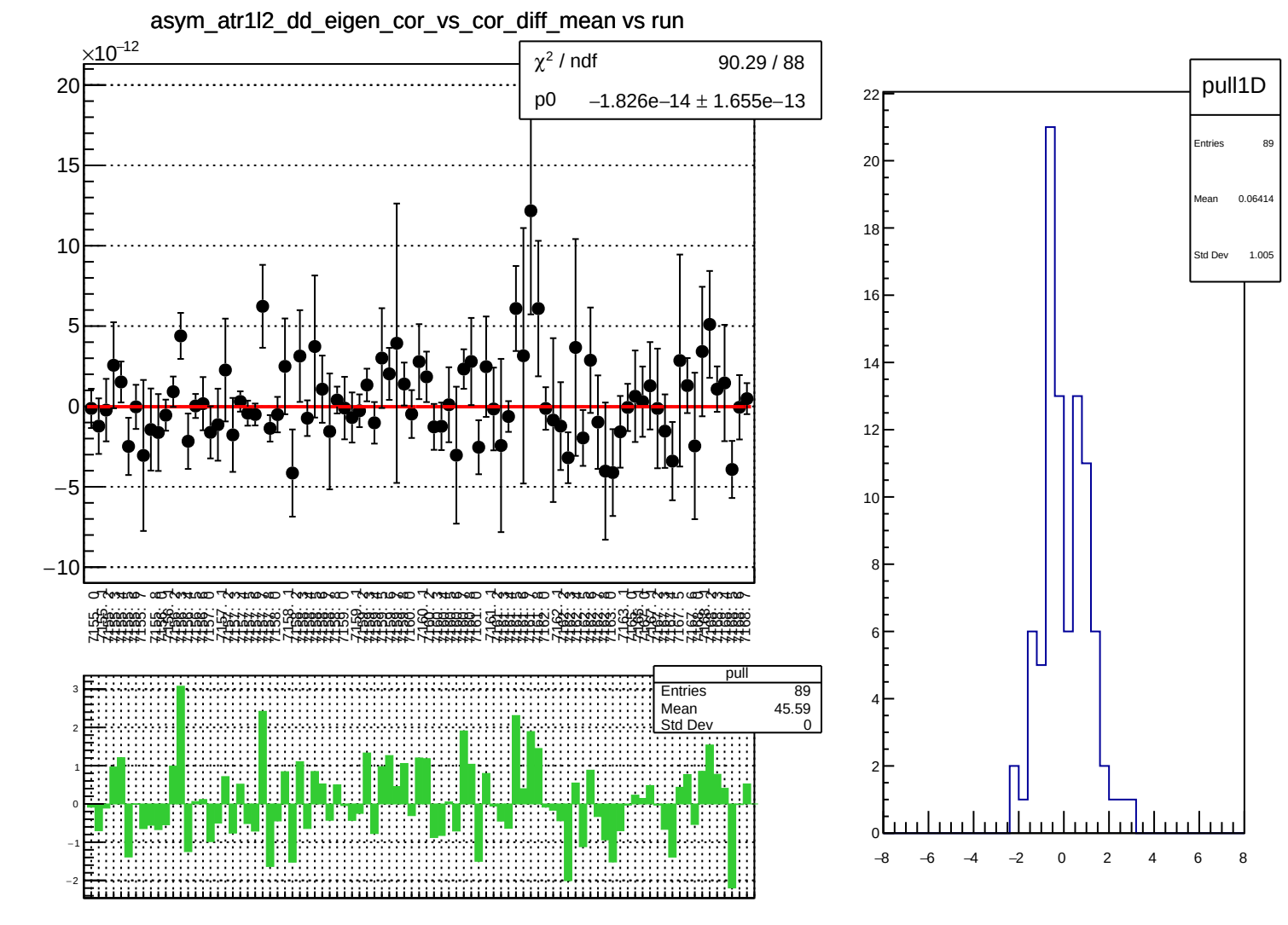

pull1D
Entries 89
Mean 0.001512
Std Dev 0.9194

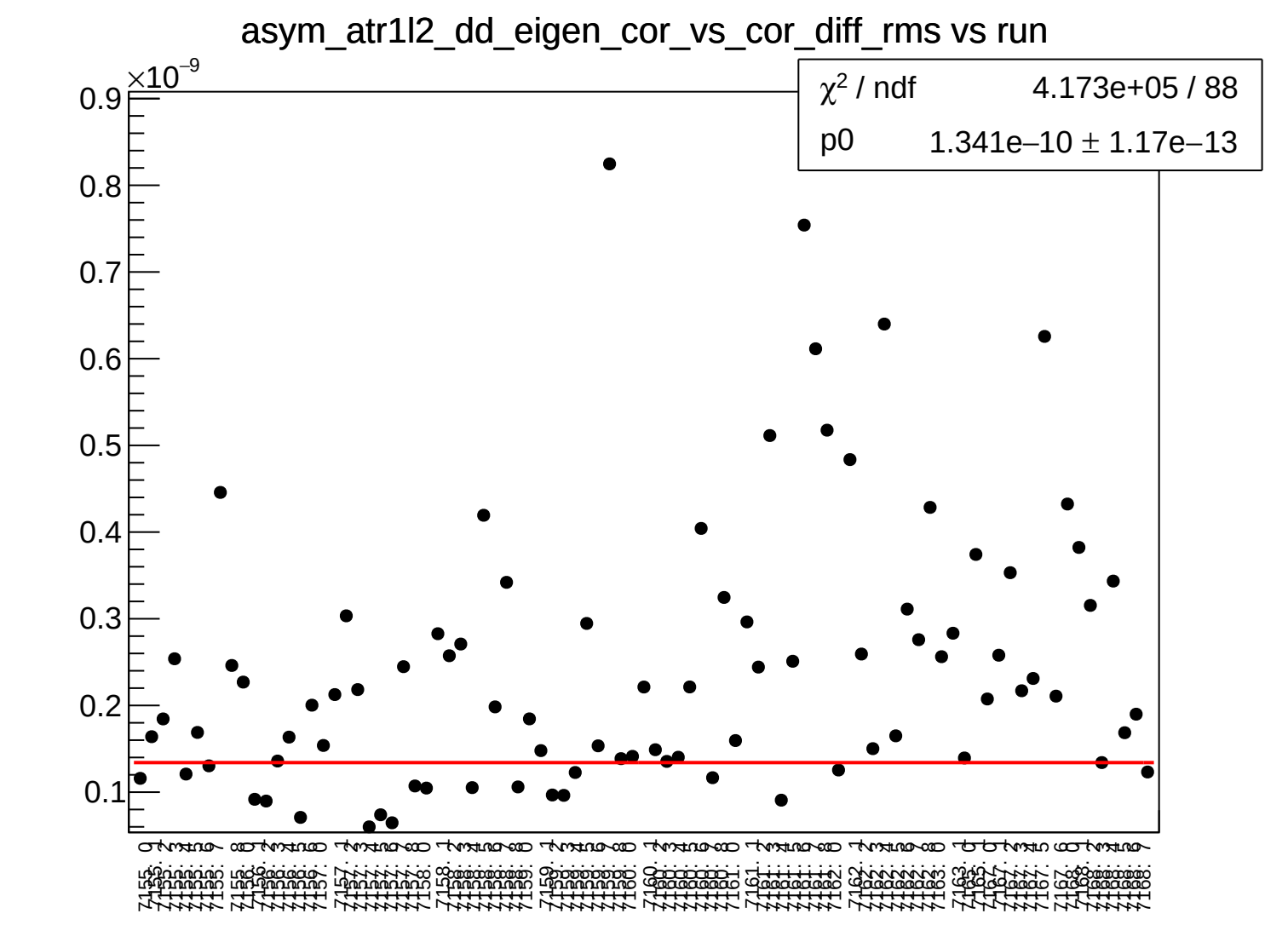

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.935e+04 / 88
p0 221.1 ± 0.1706
400
350
300
250
200
150

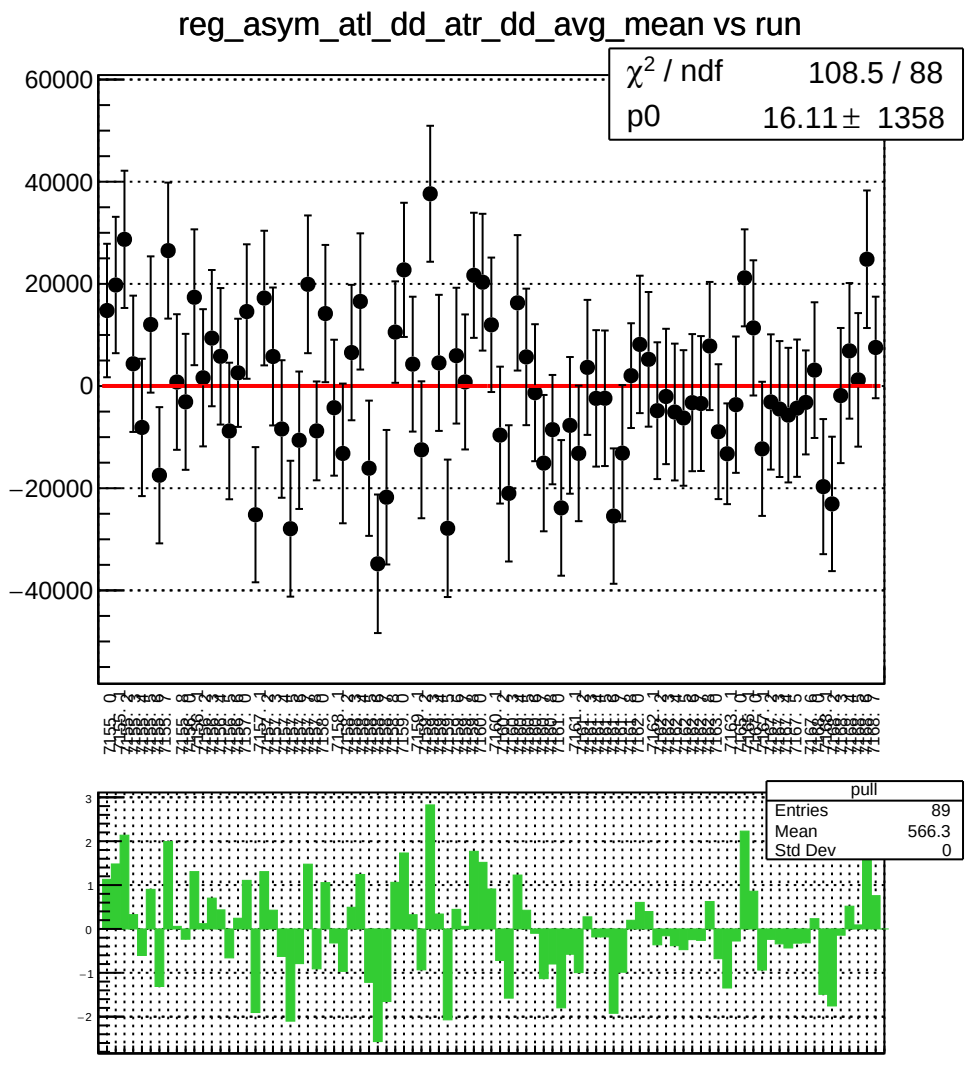

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.23 / 88
p0 −0.3085 ± 0.2412
pull
Entries 89
Mean −1427
Std Dev 0

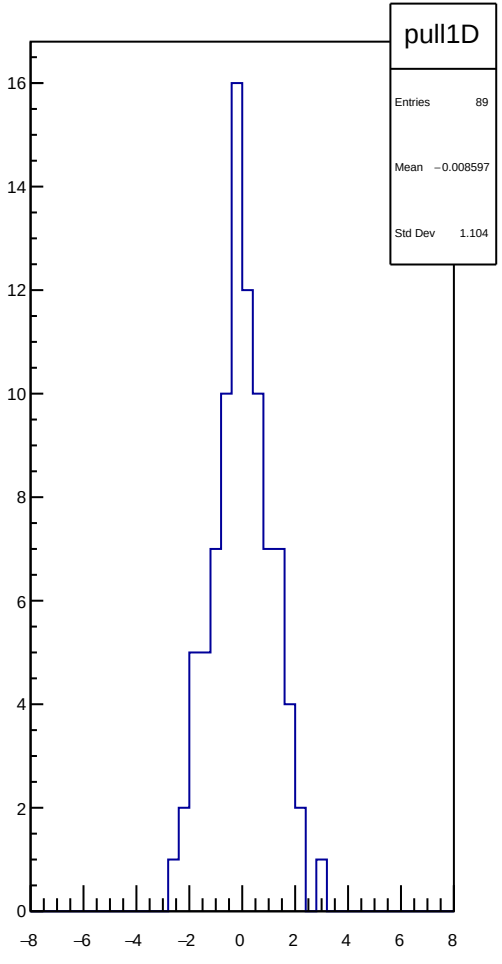

pull1D
Entries 89
Mean 0.001512
Std Dev 0.9194

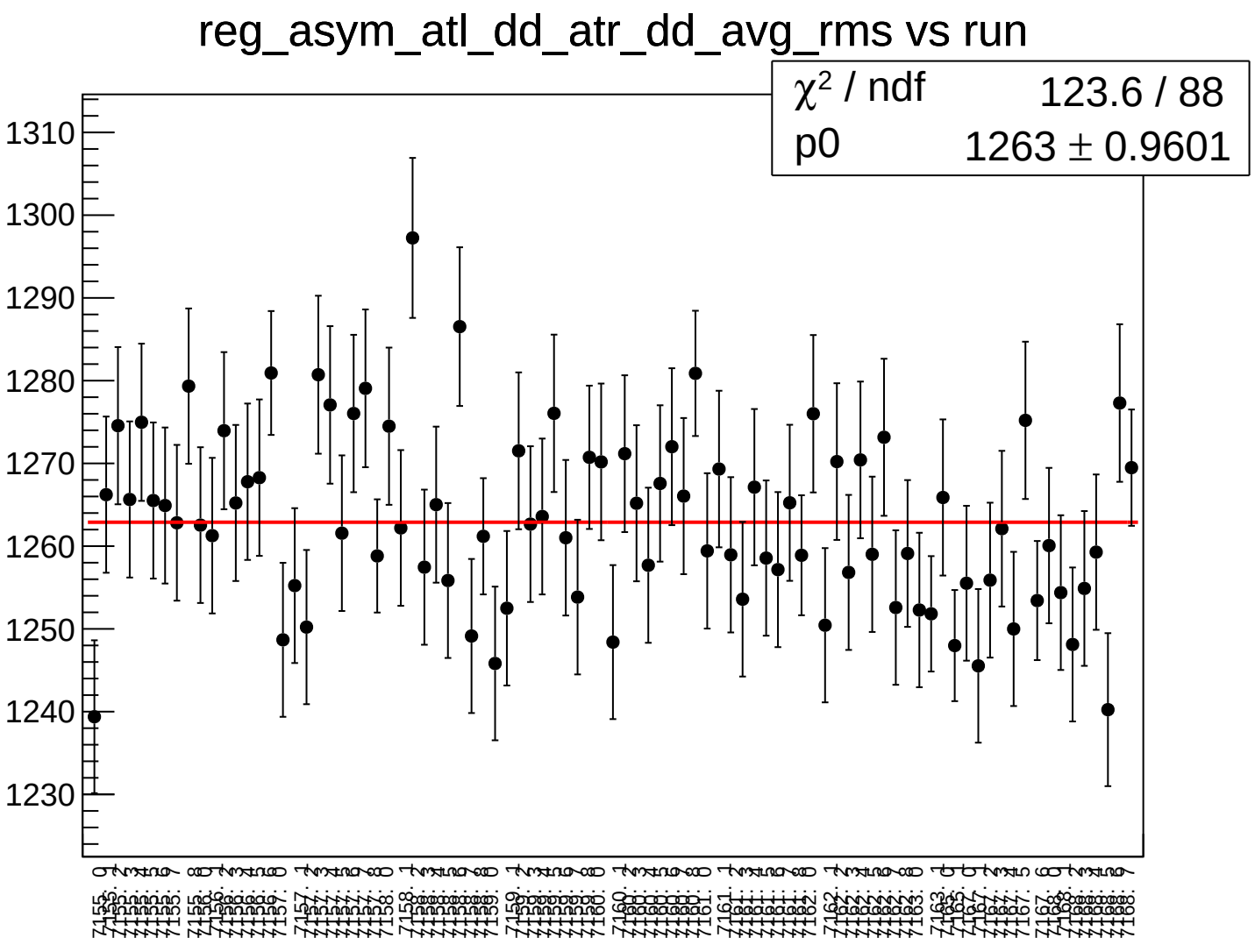

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.935e+04 / 88
p0 221.1 ± 0.1706
400
350
300
250
200
150

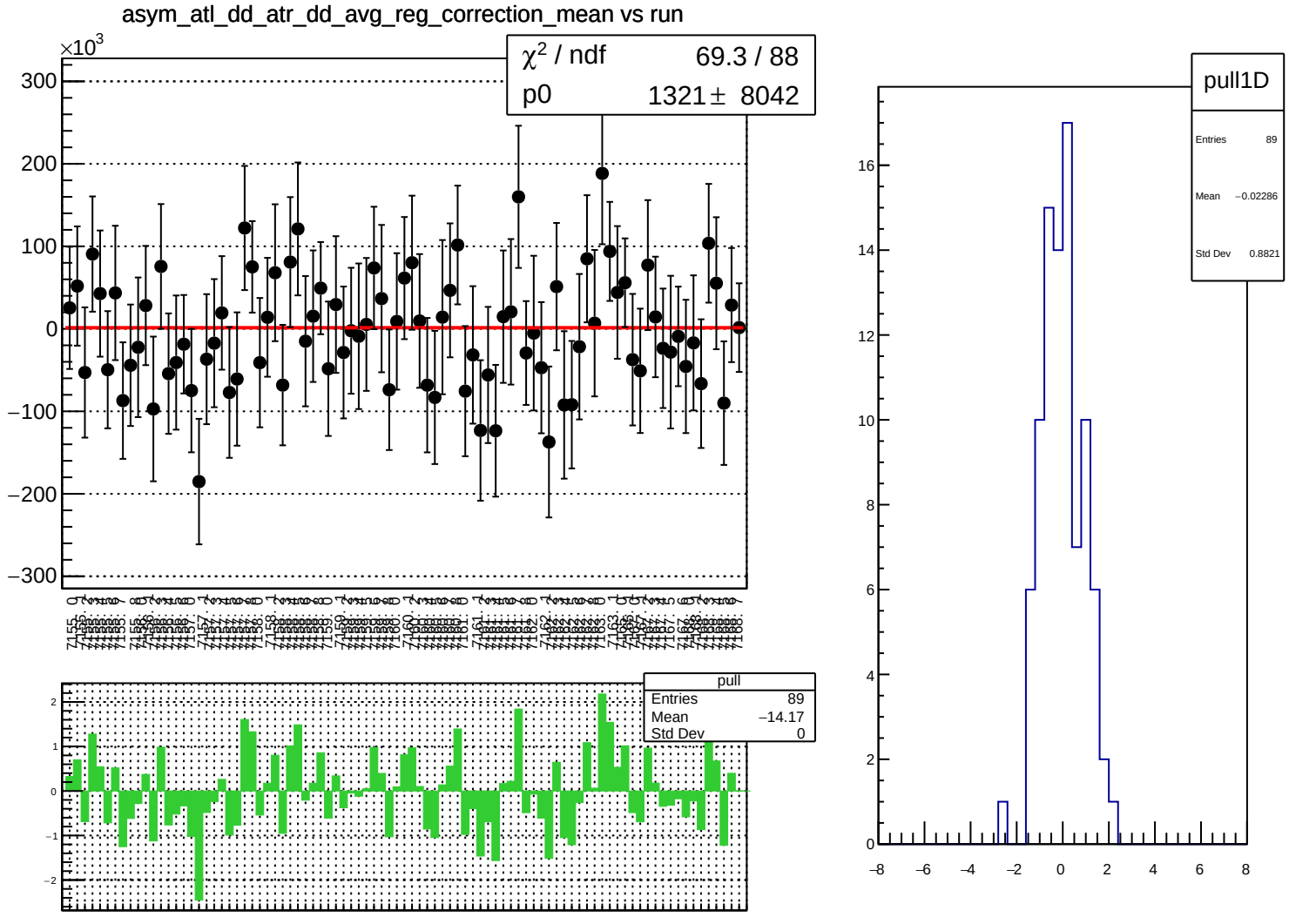

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.29 / 88
p0 −1.826e−14 ± 1.655e−13
pull
Entries 89
Mean 45.59
Std Dev 0
pull1D
Entries 89
Mean 0.06414
Std Dev 1.005

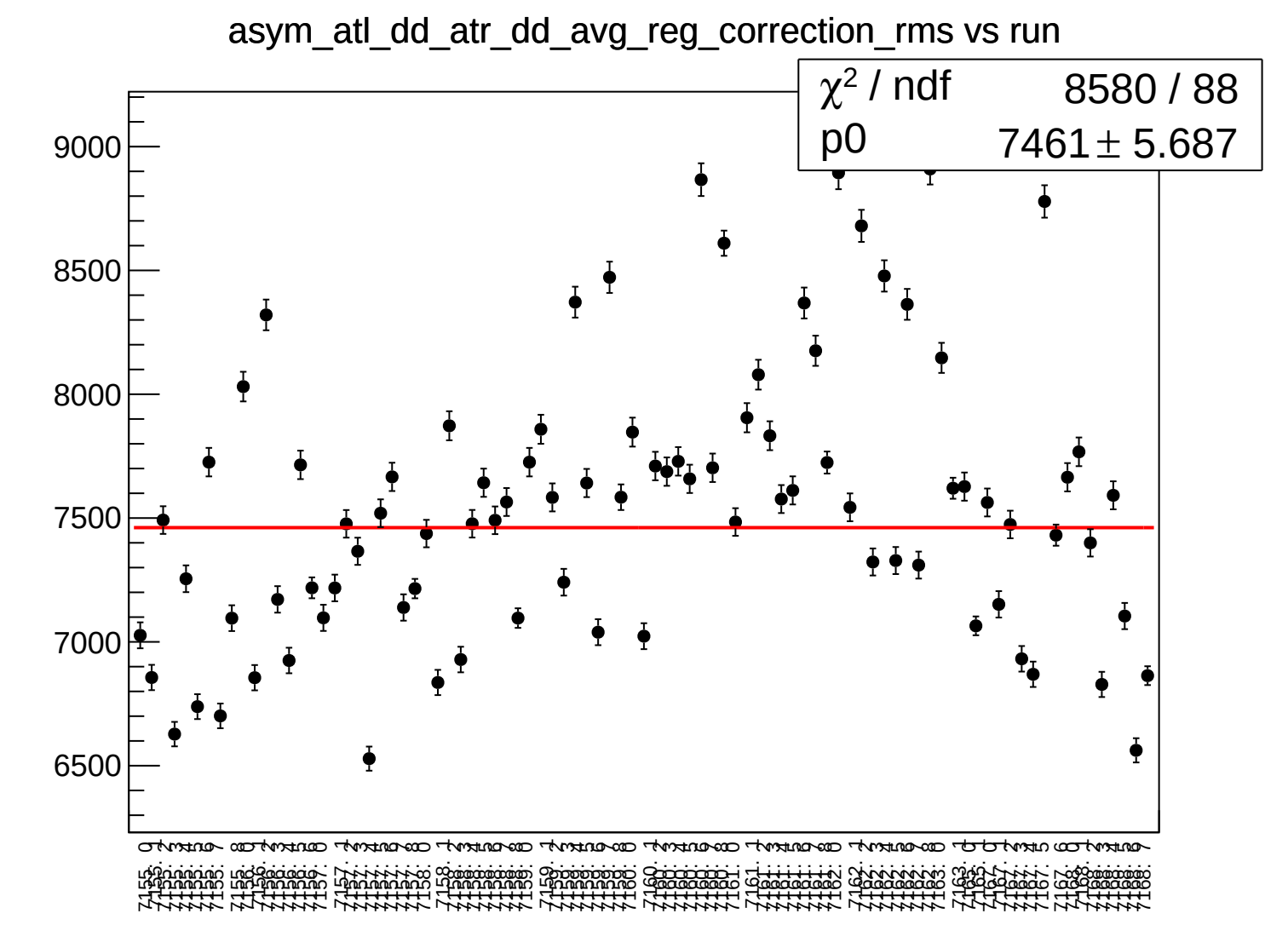

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.173e+05 / 88
p0 1.341e−10 ± 1.17e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

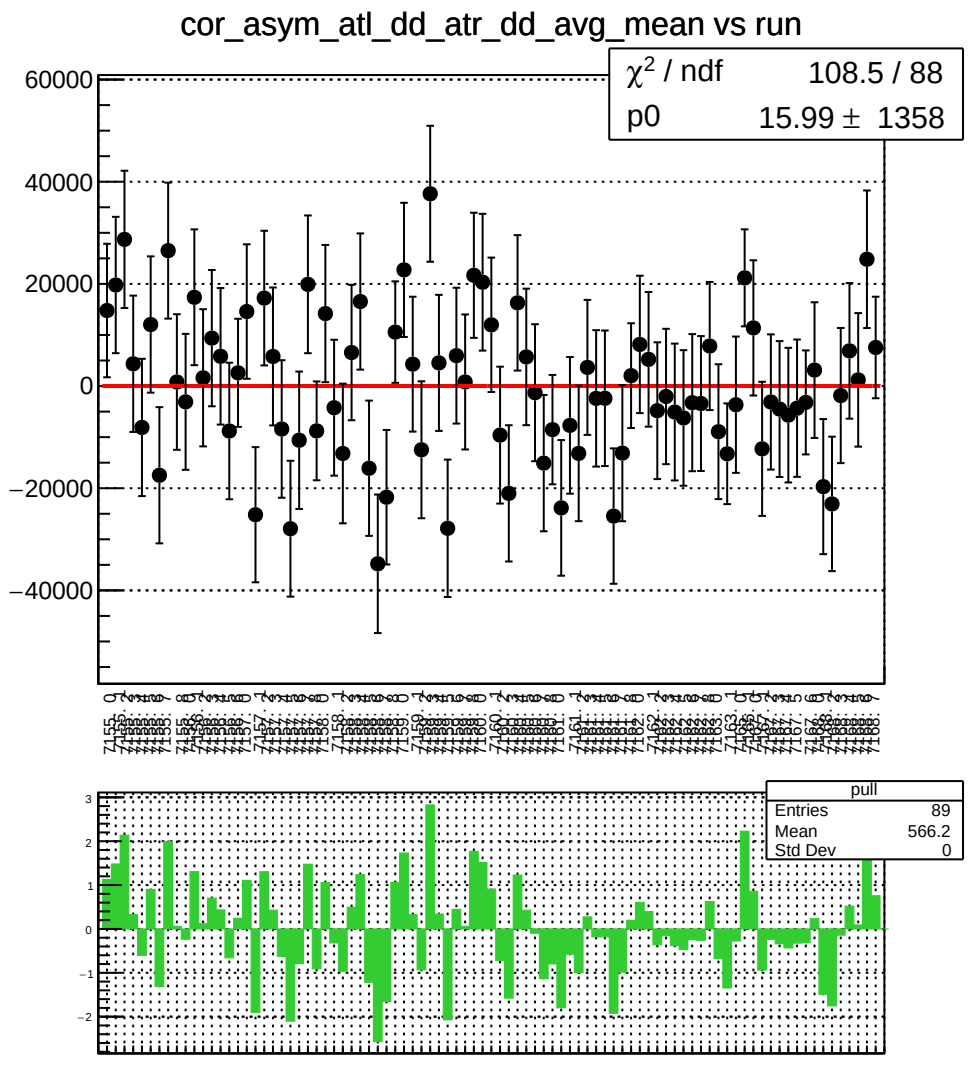

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 108.5 / 88
p0 16.11 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.3
Std Dev 0
3
2
1
0
−1
−2

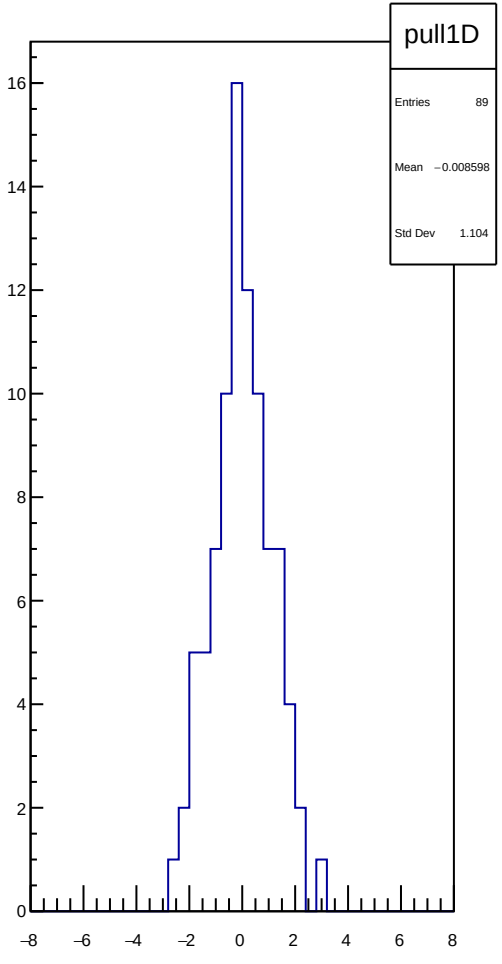

pull1D
Entries 89
Mean −0.008597
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

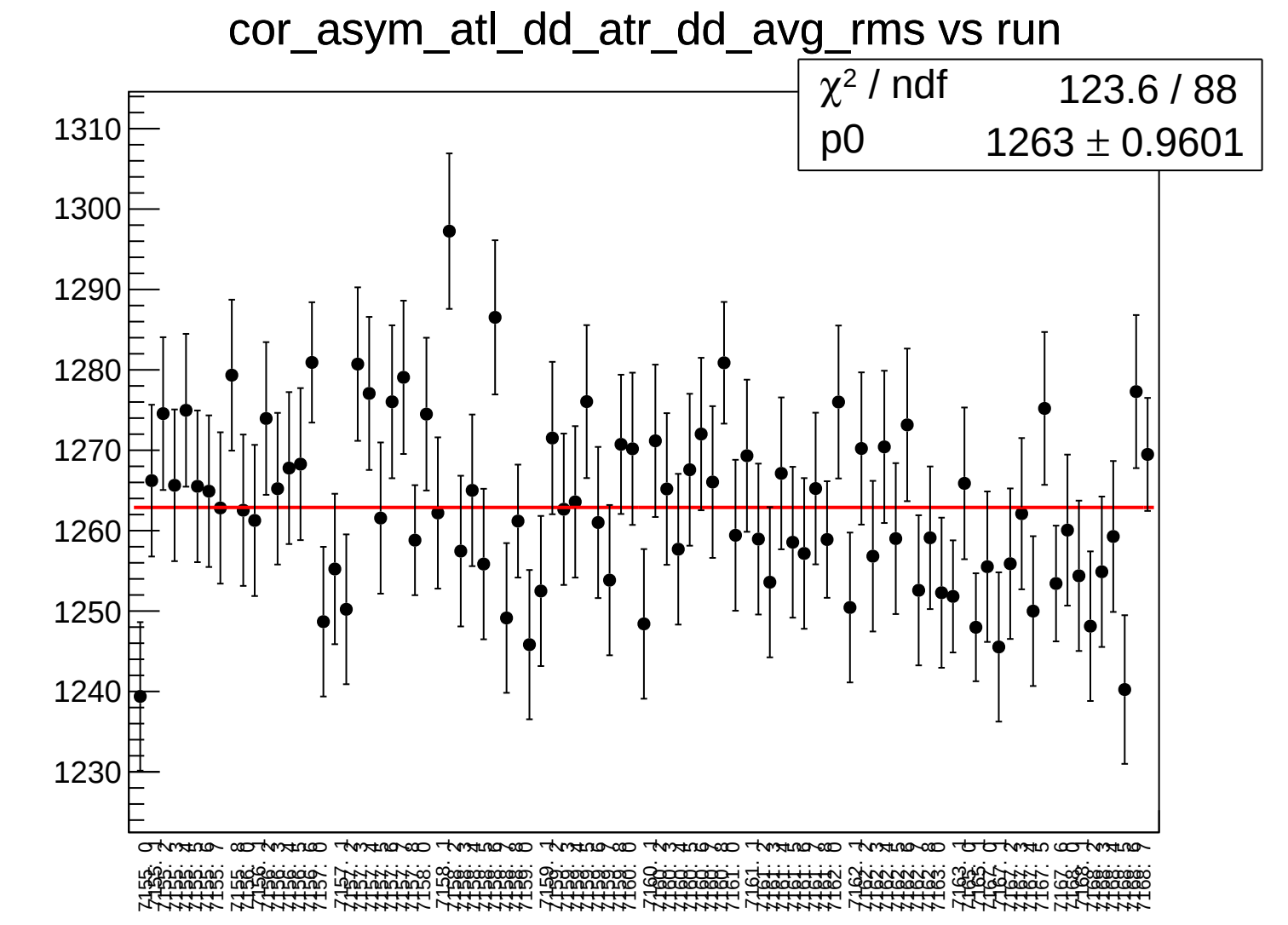

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

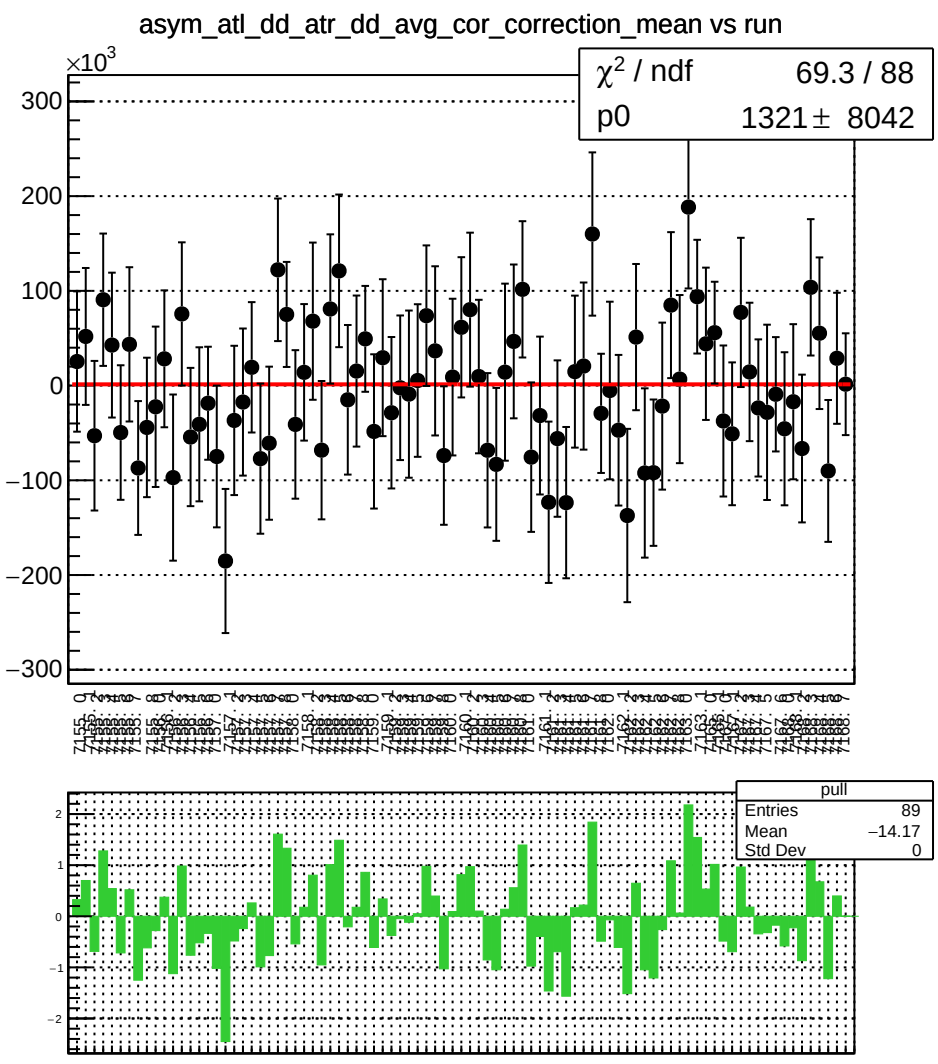

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
pull
Entries 89
Mean −14.17
Std Dev 0
pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821

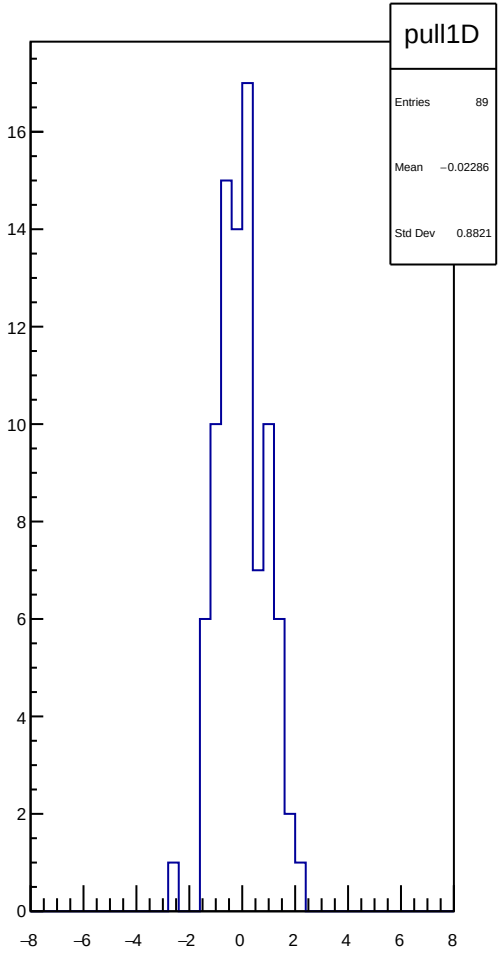

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

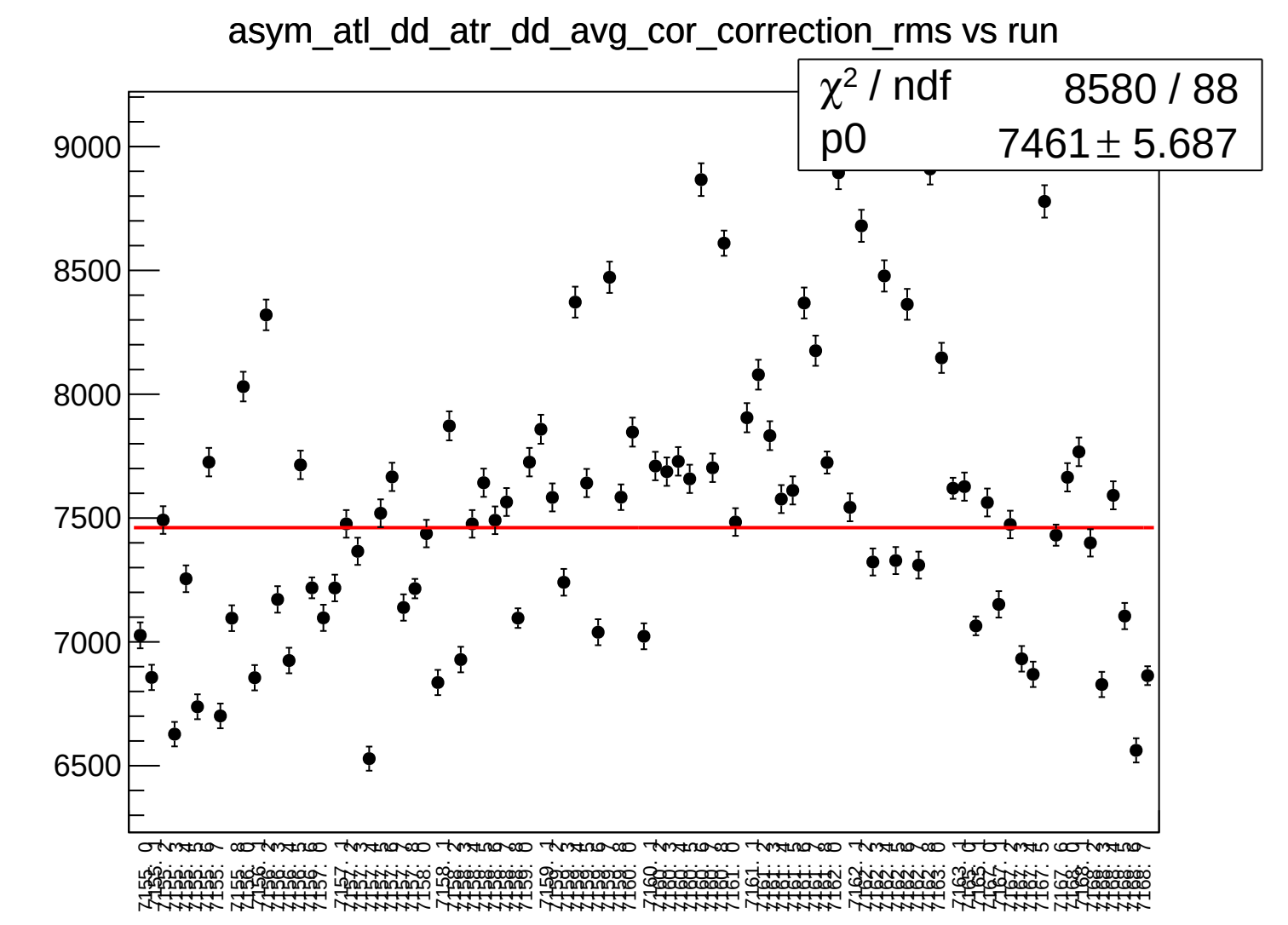

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
pull
Entries 89
Mean 566.2
Std Dev 0

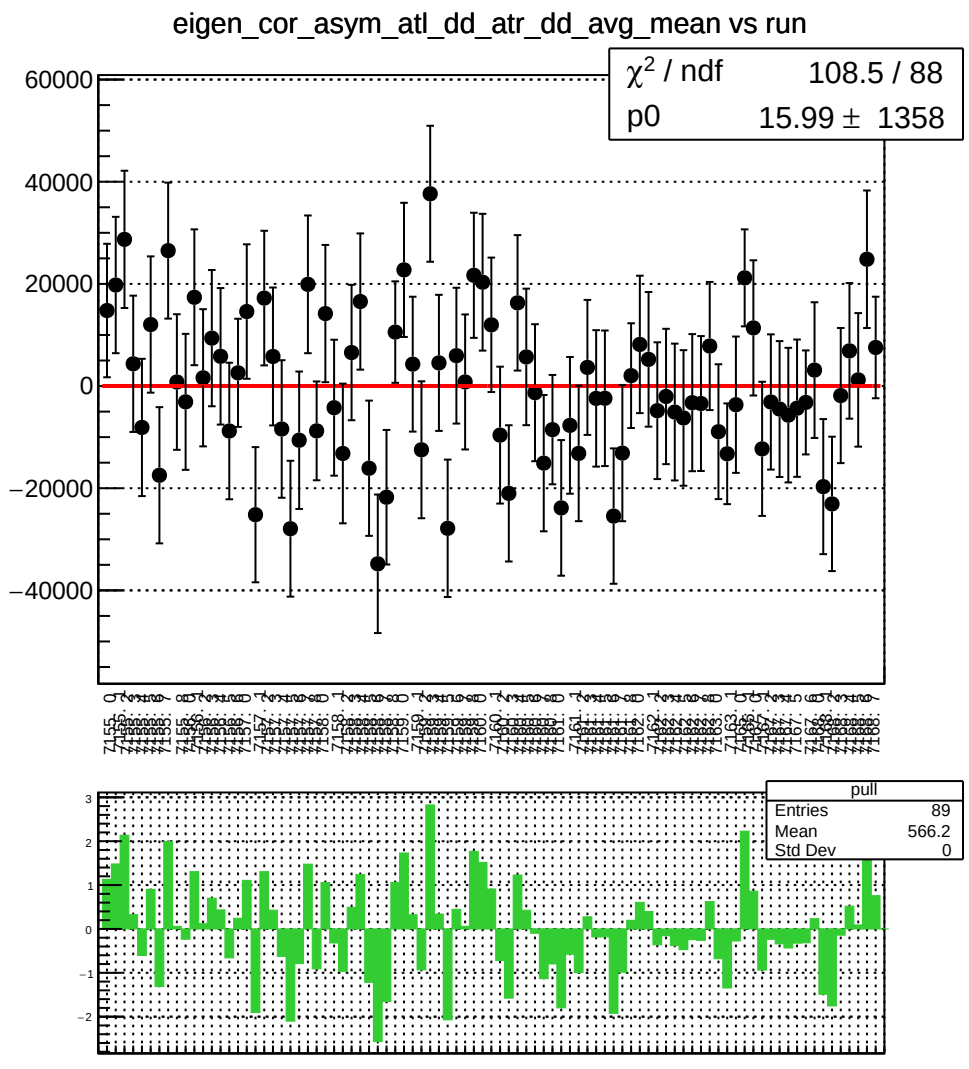

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104

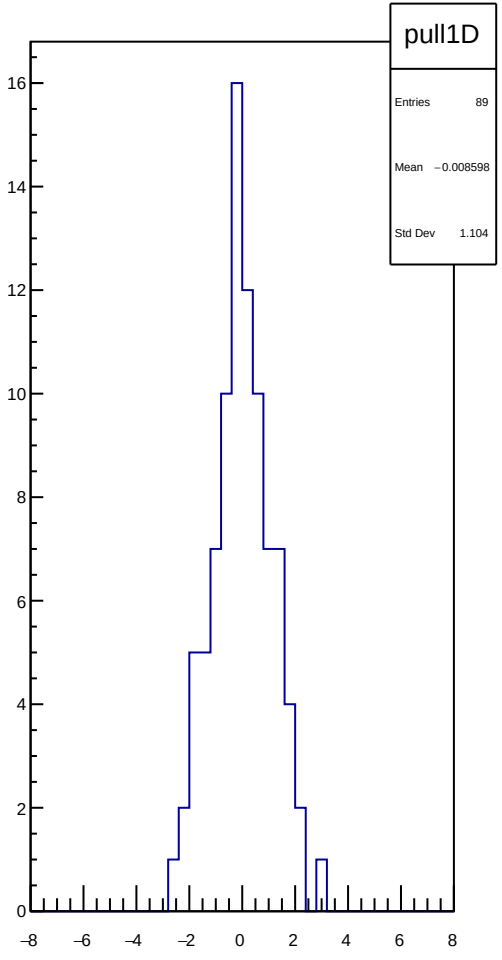

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

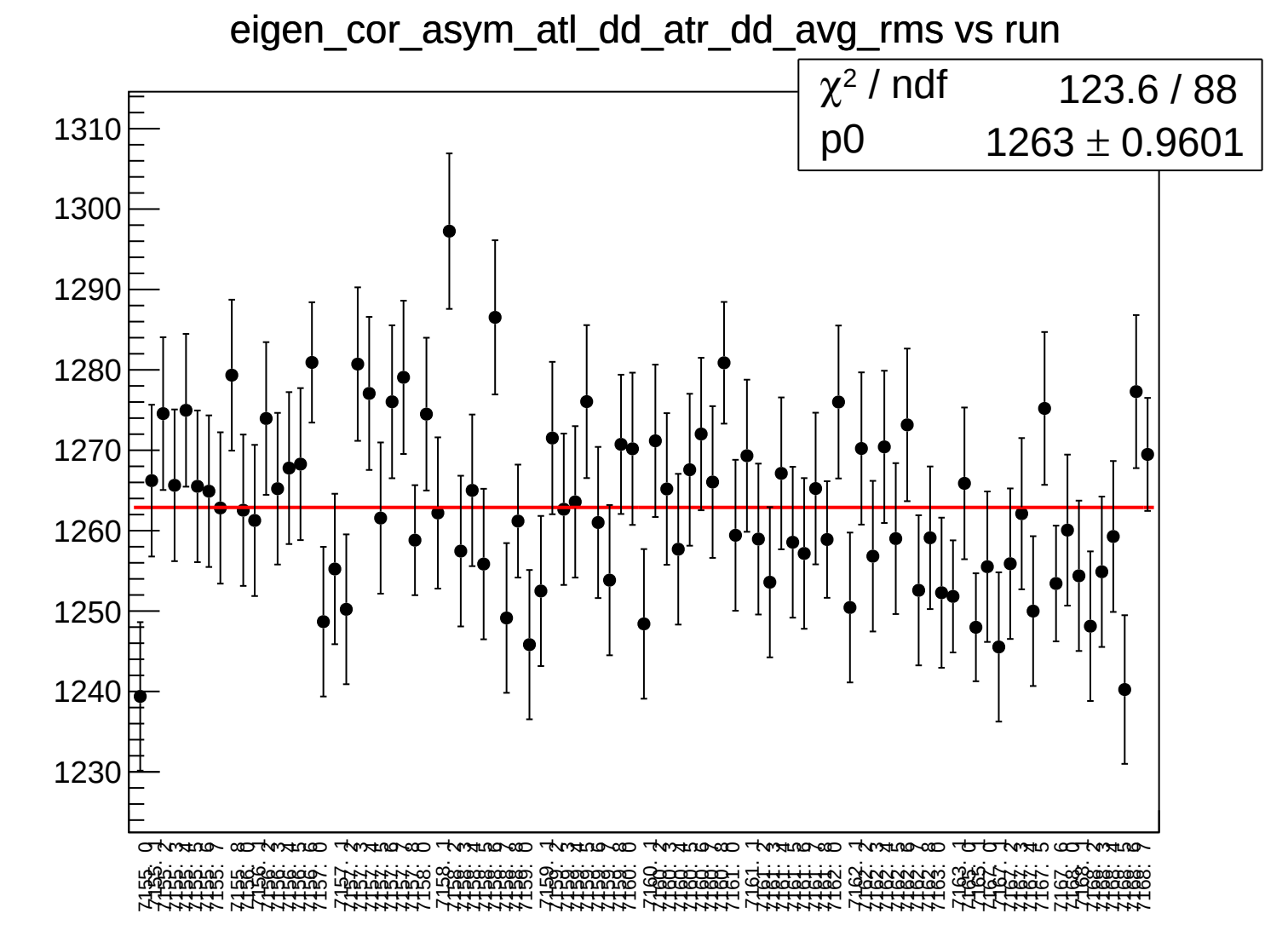

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.17
Std Dev 0
2
1
0
−1
−2

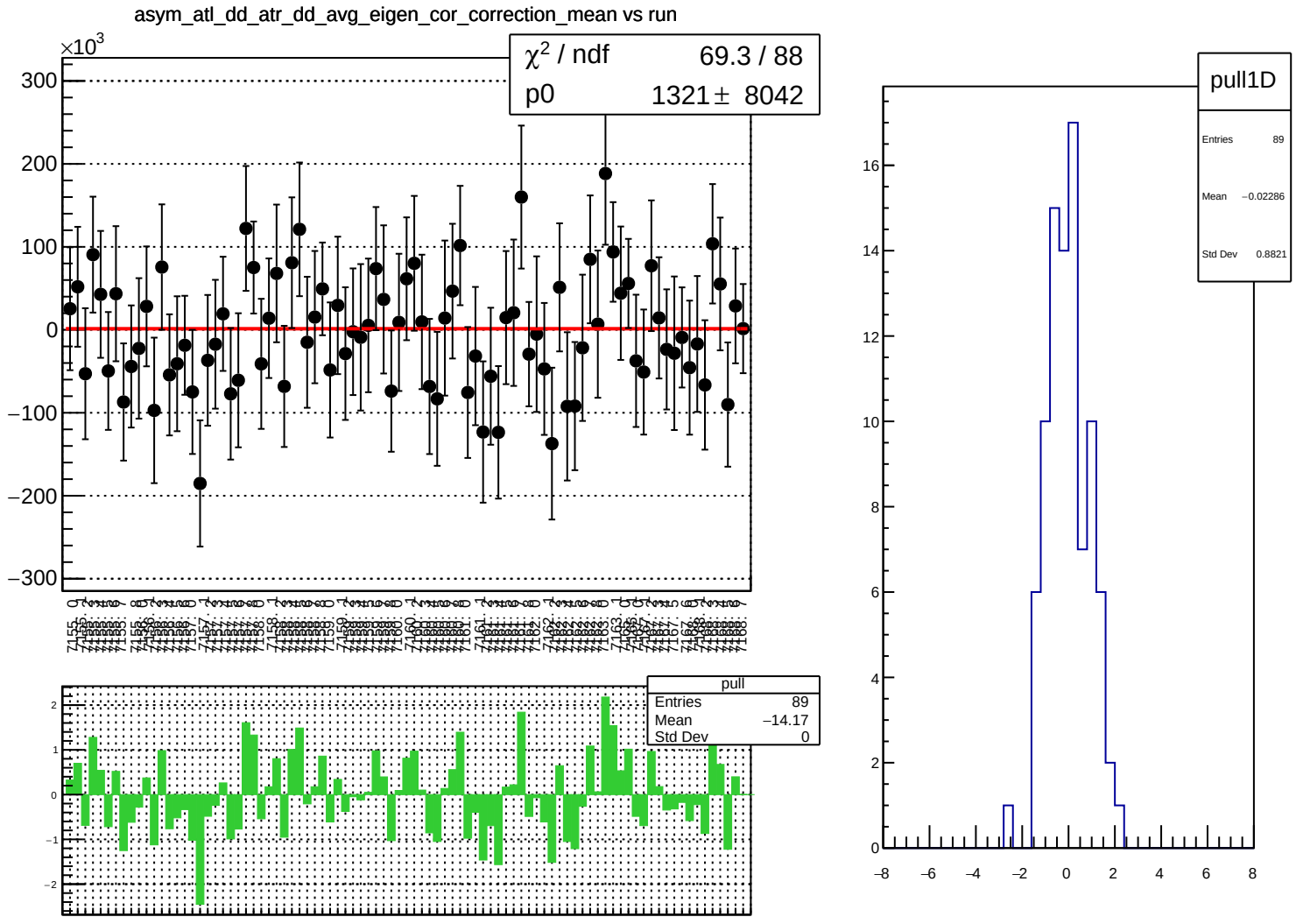

pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

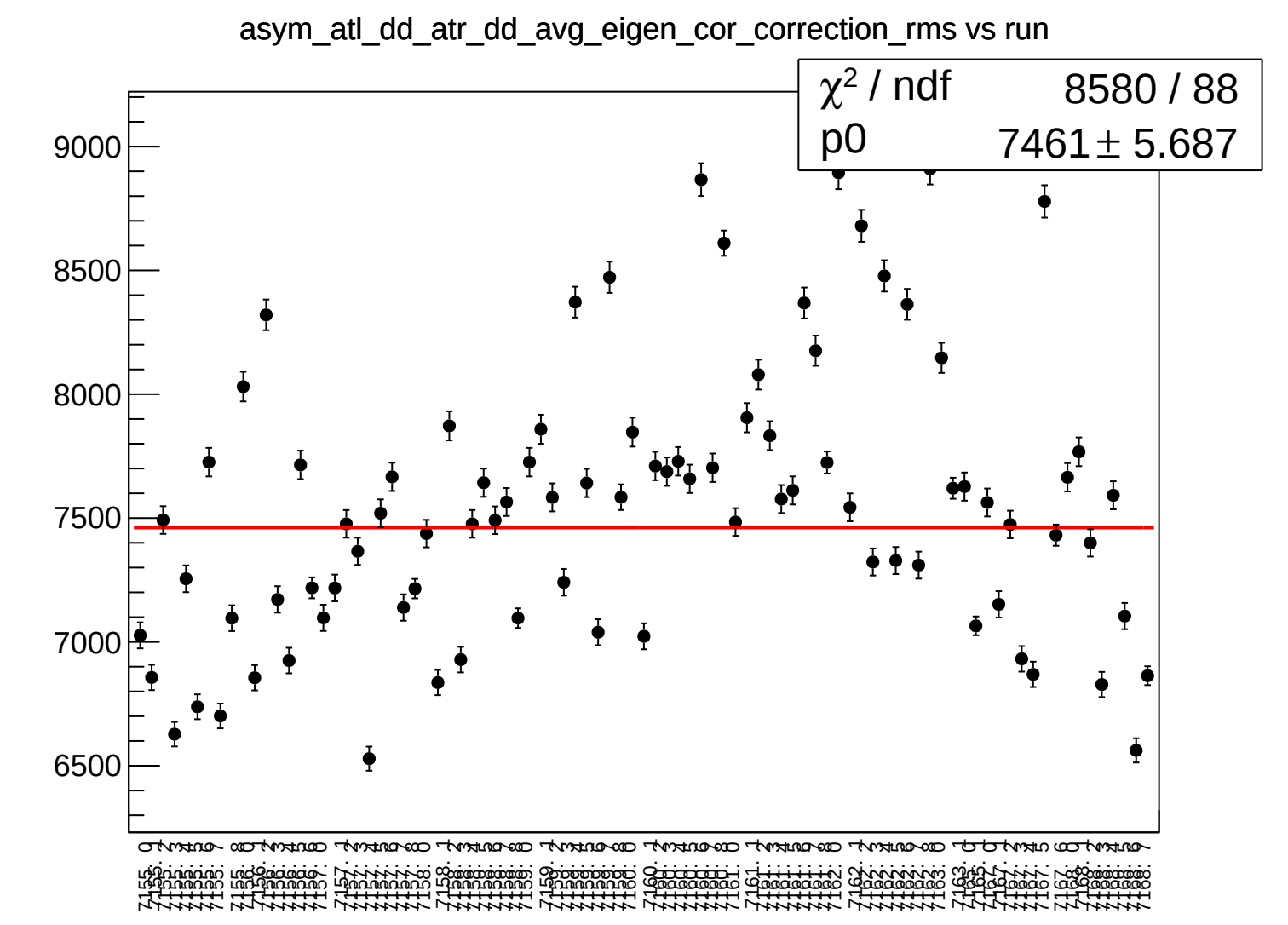

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

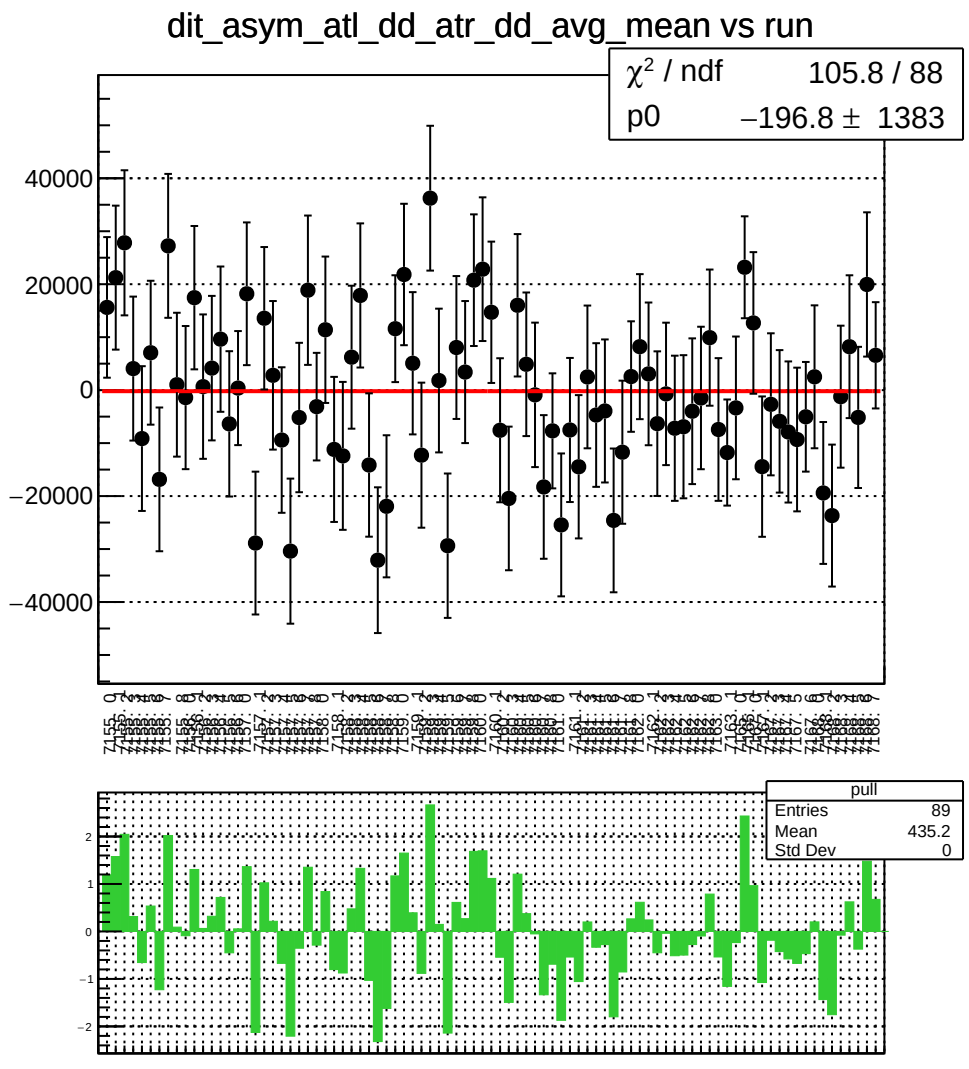

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.2
Std Dev 0
3
2
1
0
−1
−2

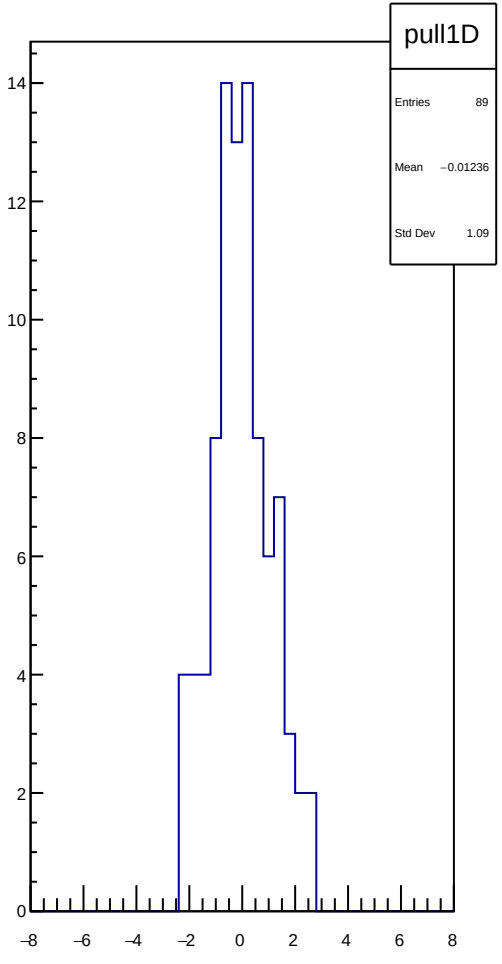

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

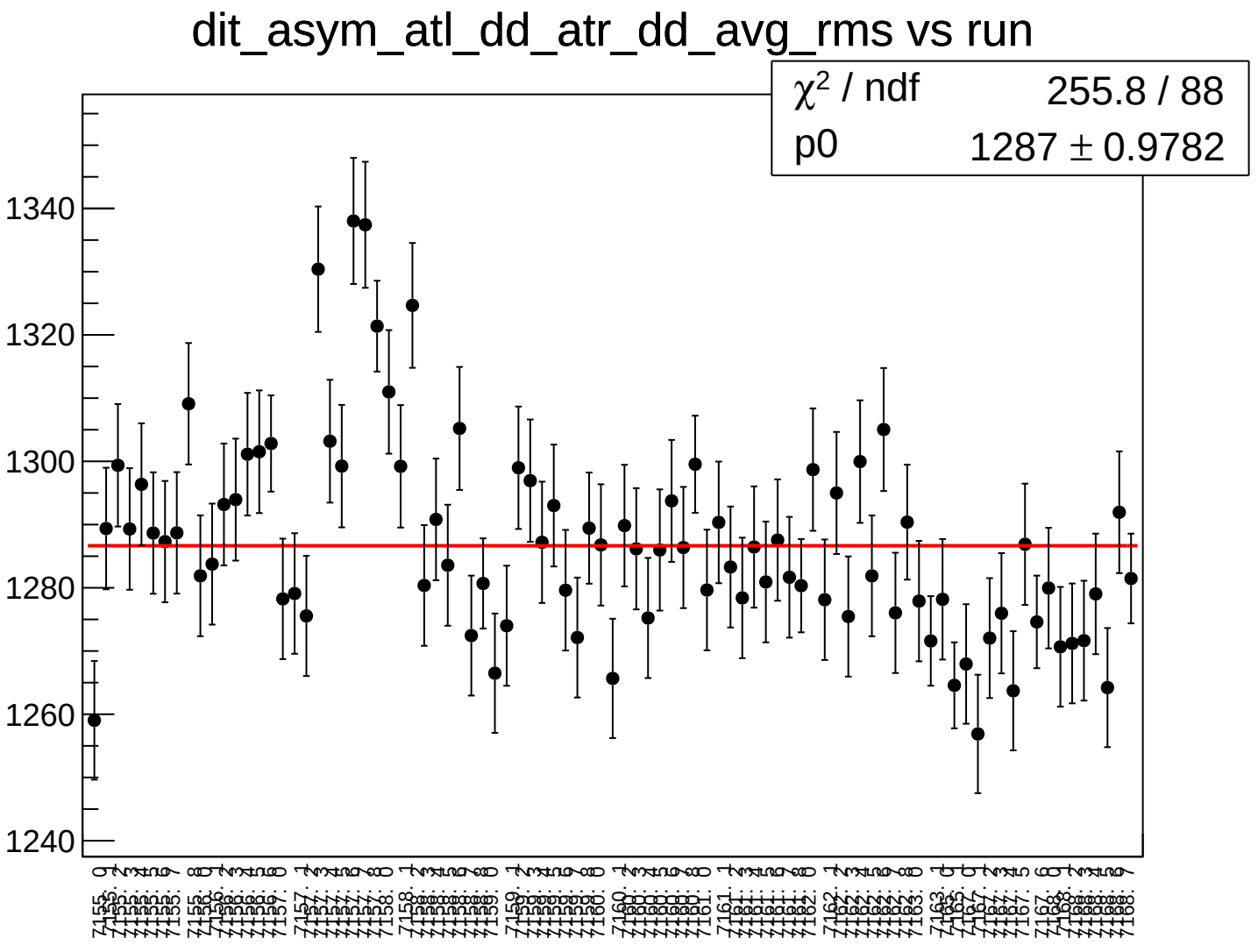

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

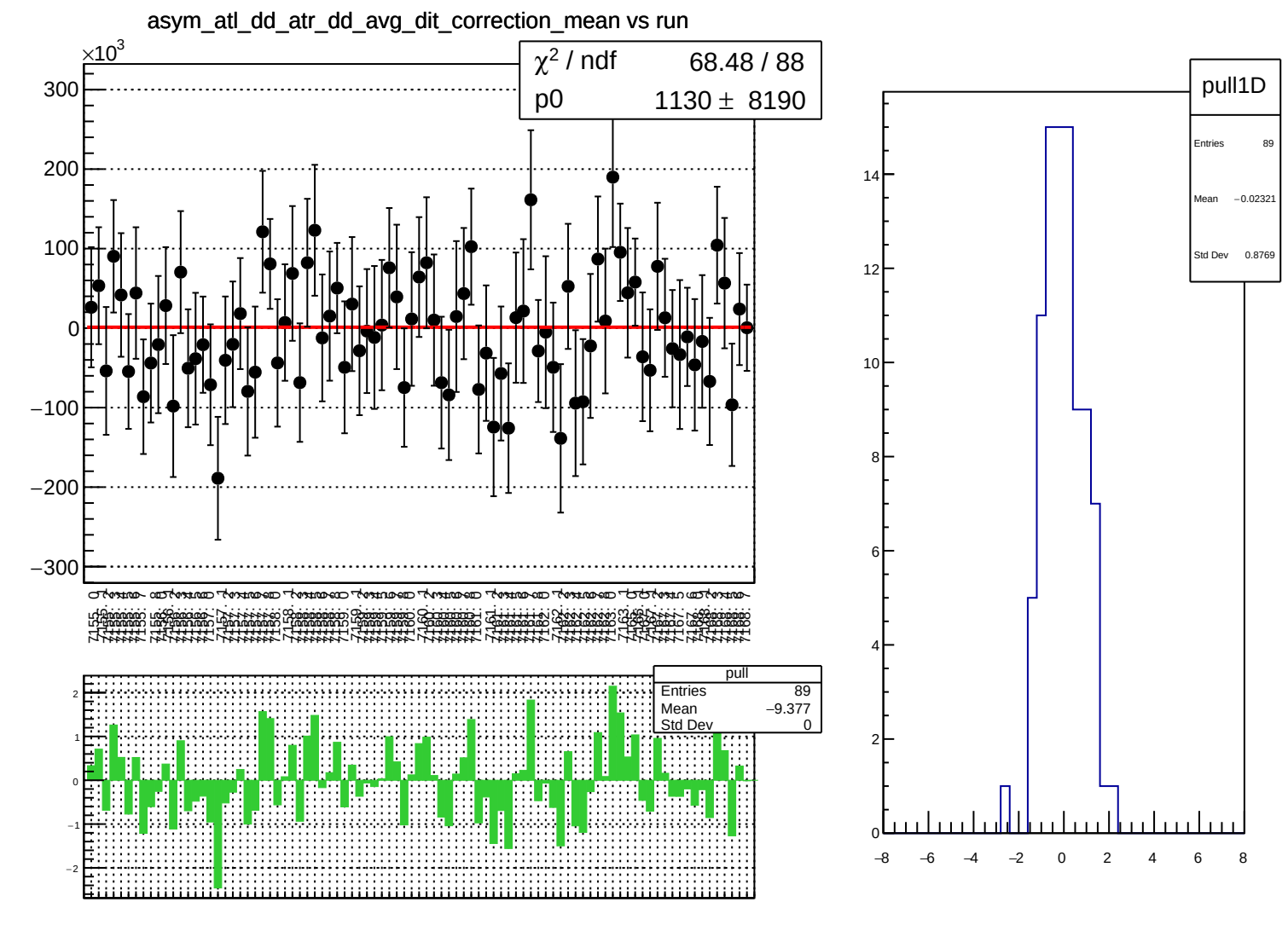

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

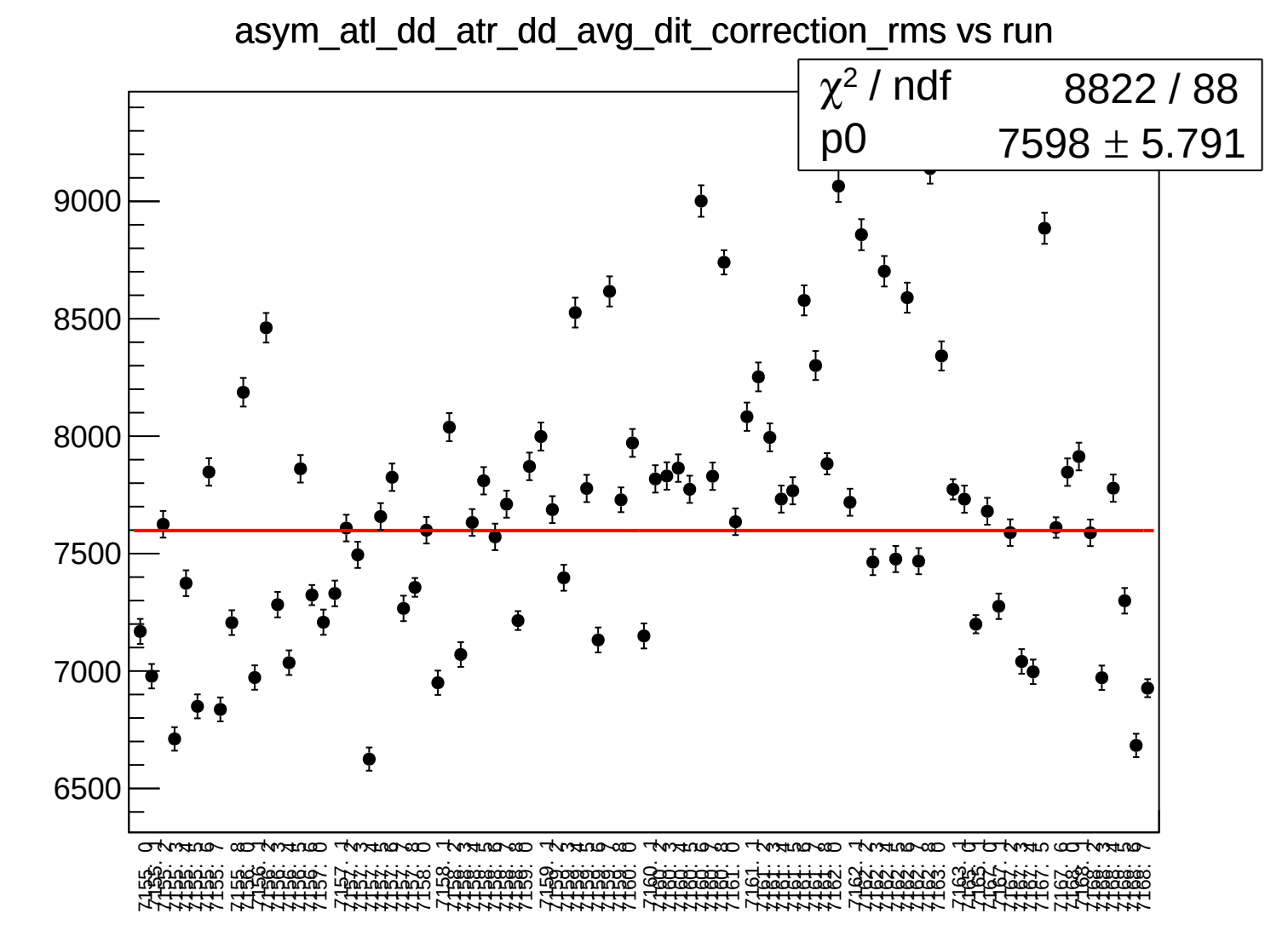

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

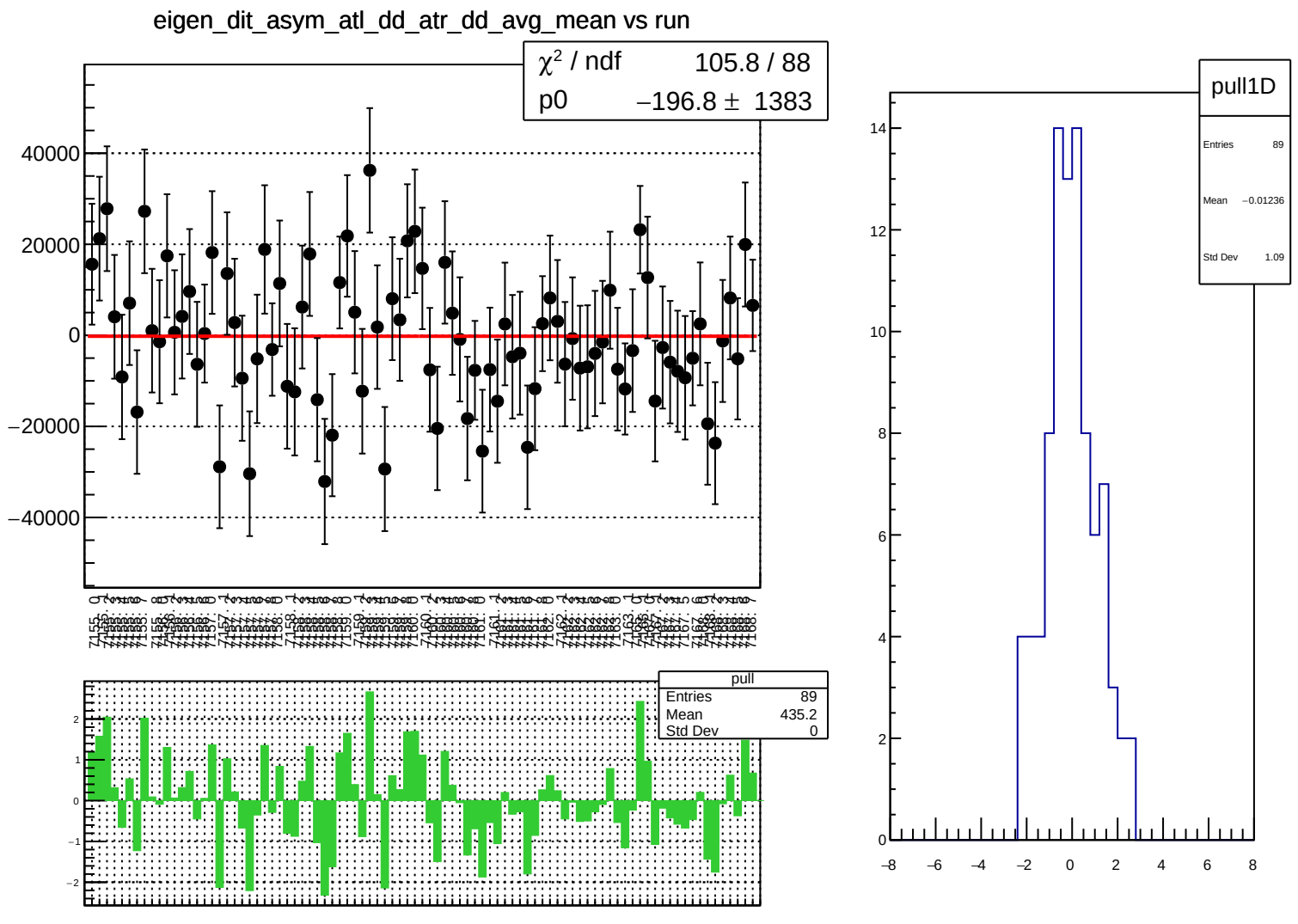

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
2
1
0
−1
−2

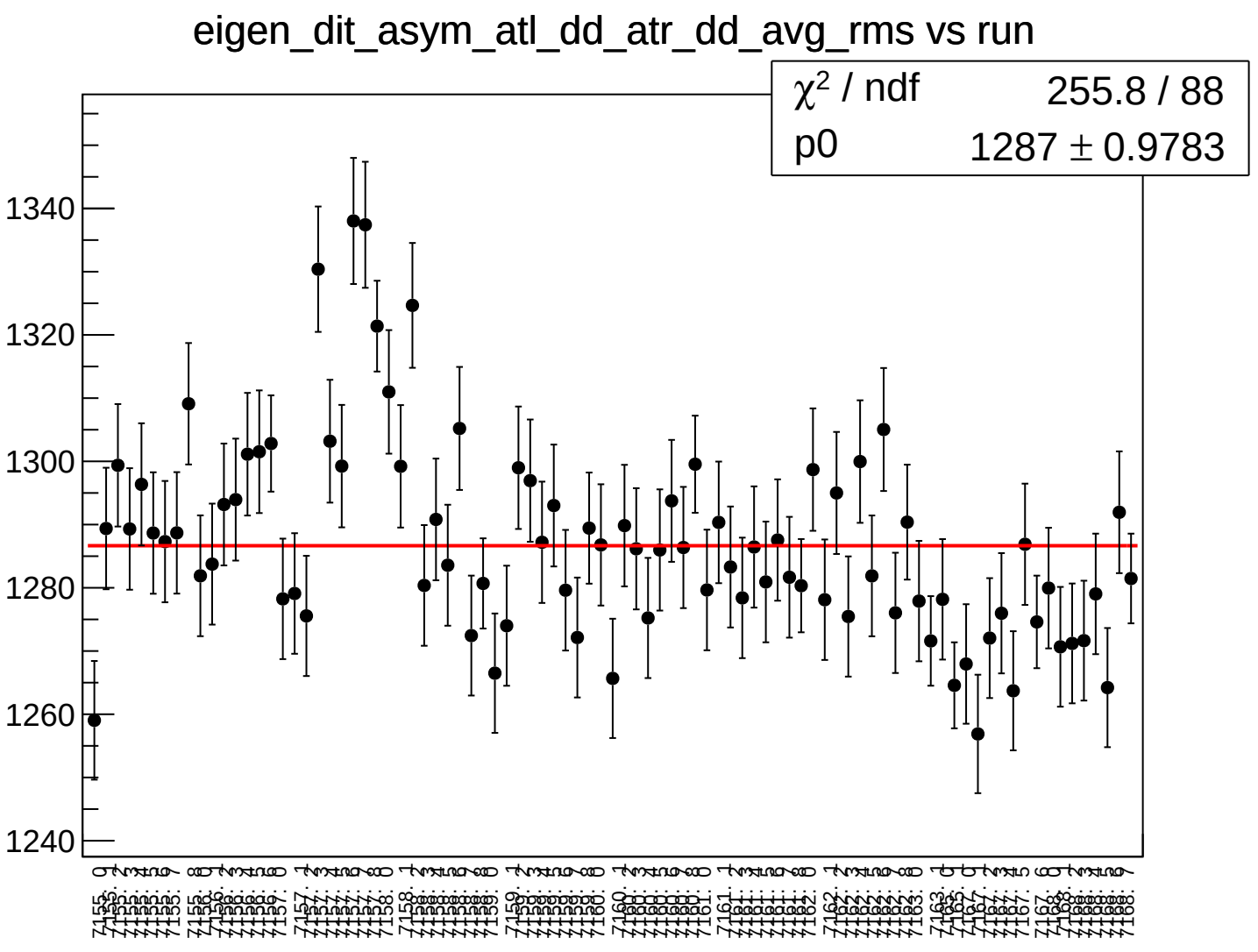

pull1D
Entries 89
Mean −0.01236
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

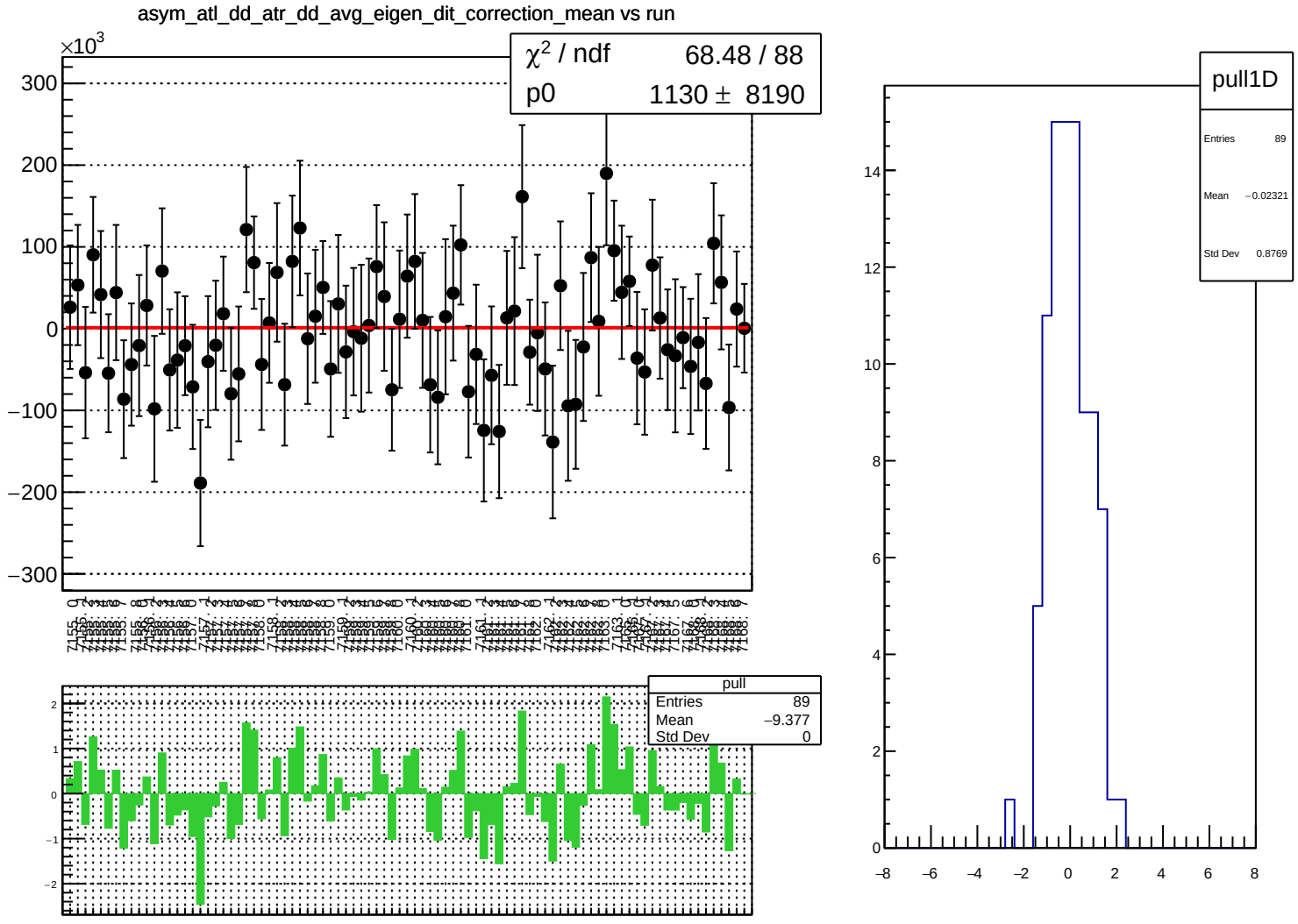

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9782
1340
1320
1300
1280
1260
1240

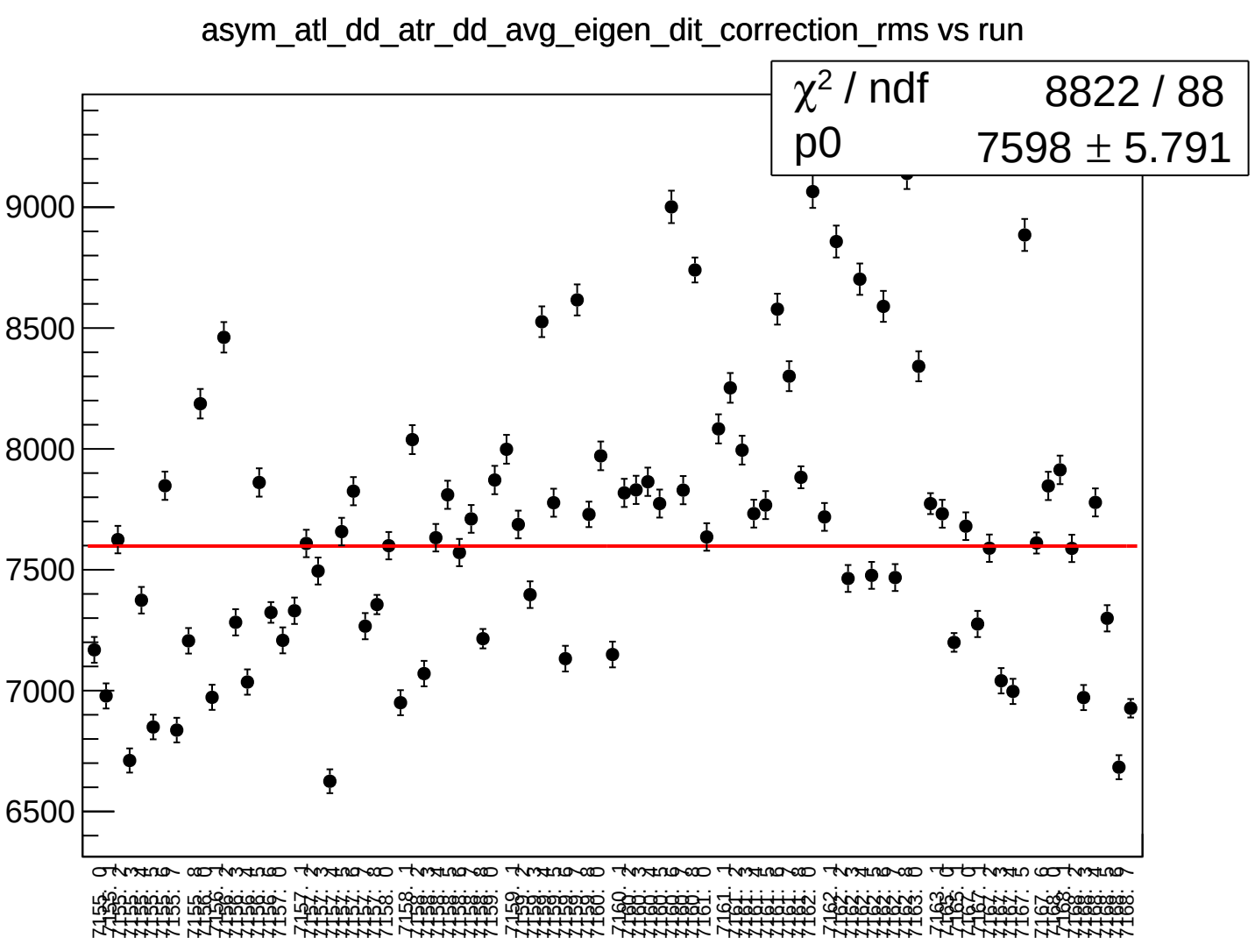

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.377
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

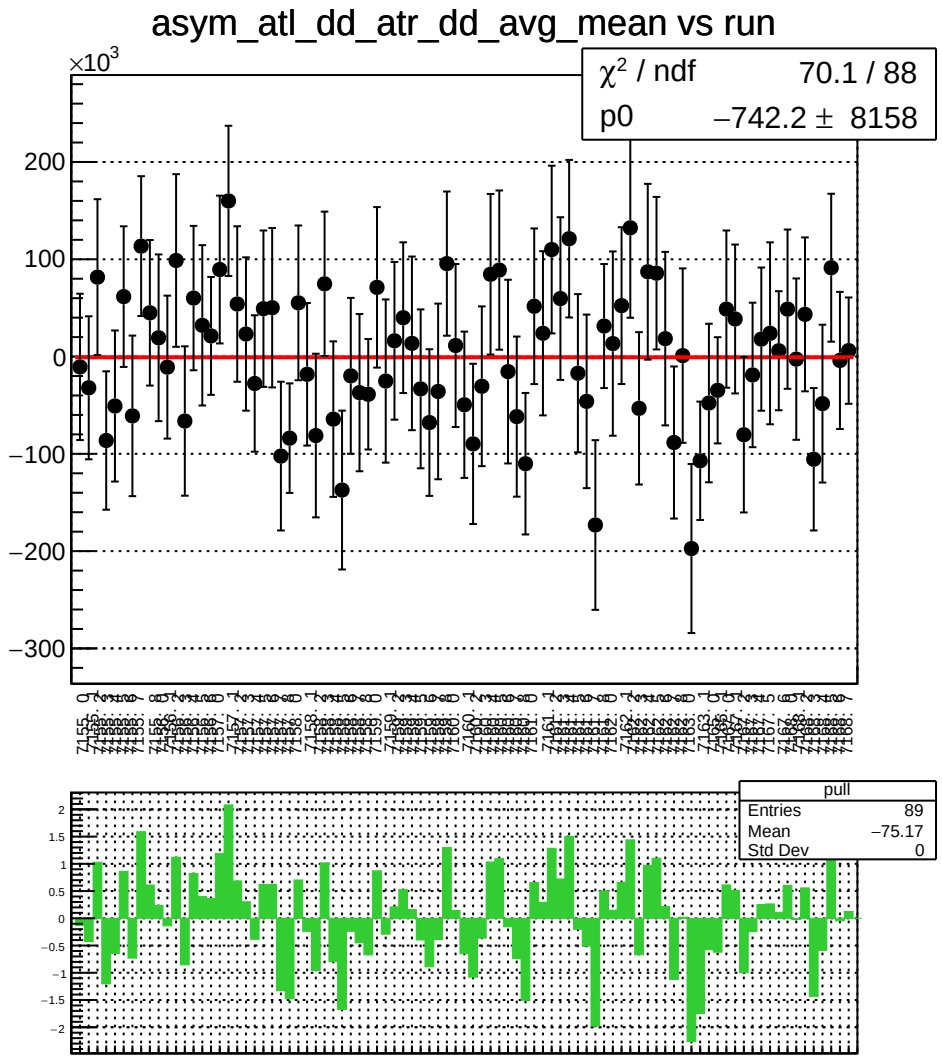

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

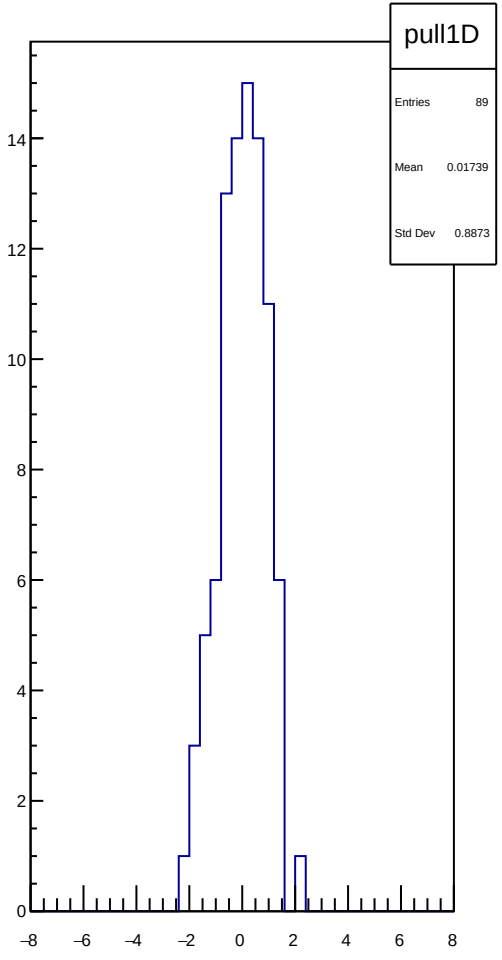

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
pull1D
Entries 89
Mean −0.01236
Std Dev 1.09

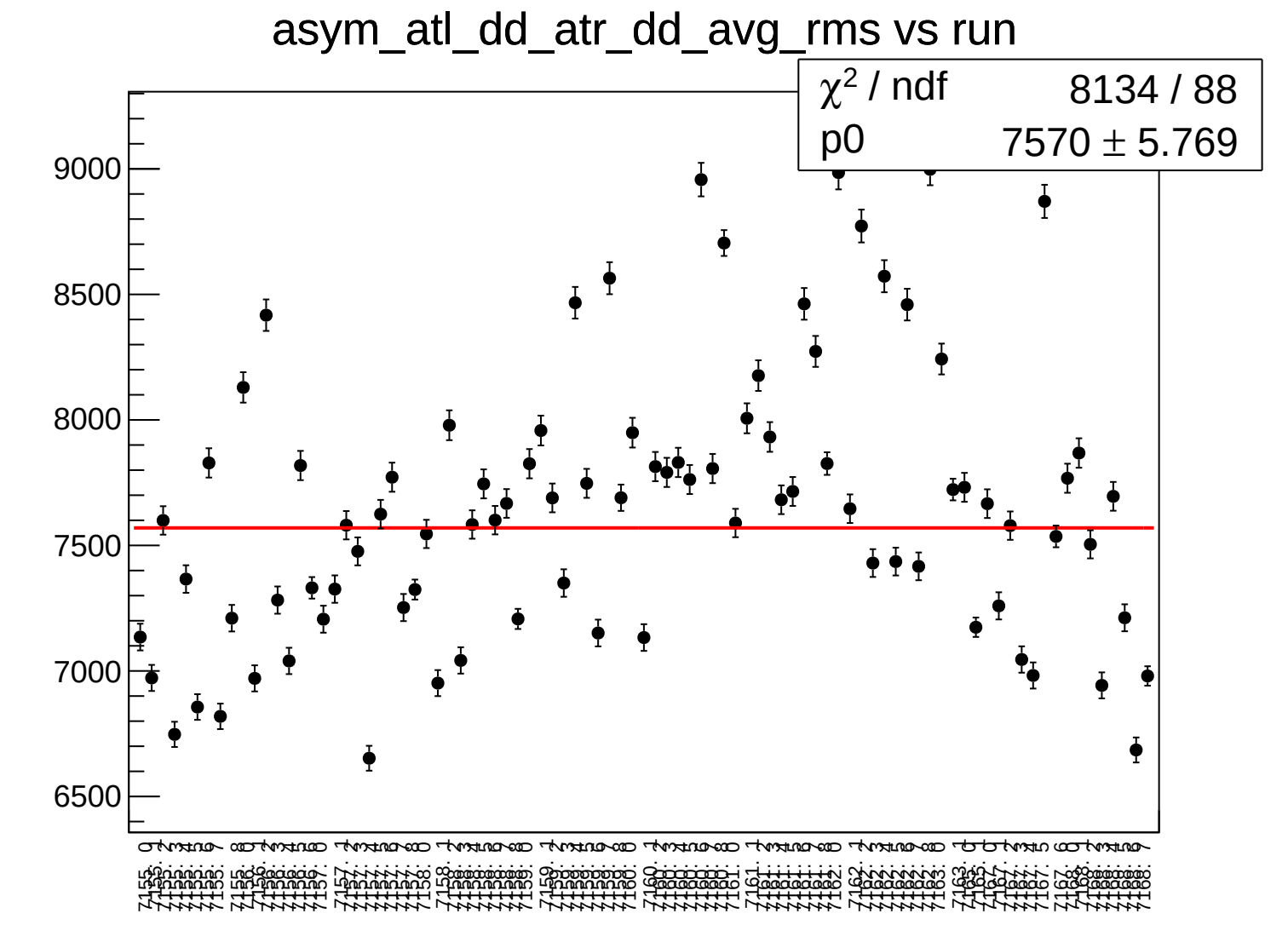

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9783
1340
1320
1300
1280
1260
1240

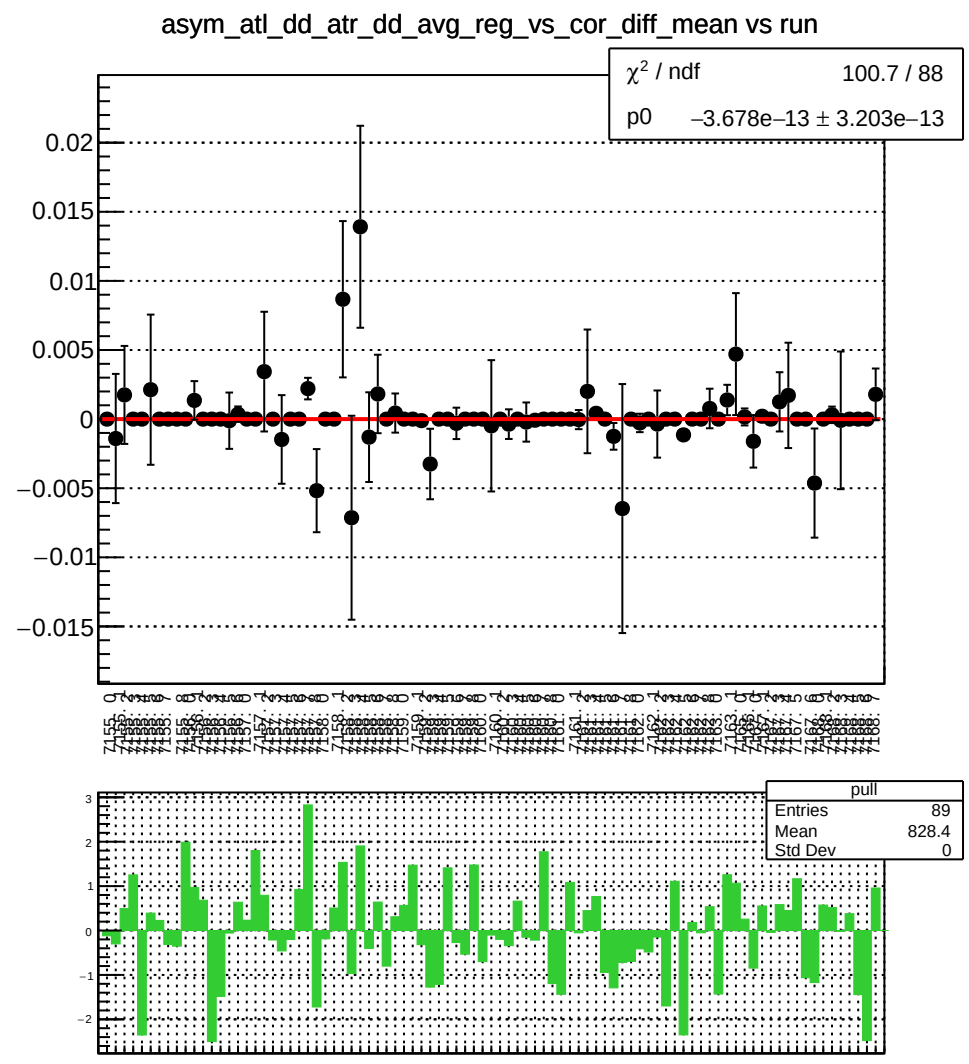

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
pull
Entries 89
Mean −9.377
Std Dev 0
pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769

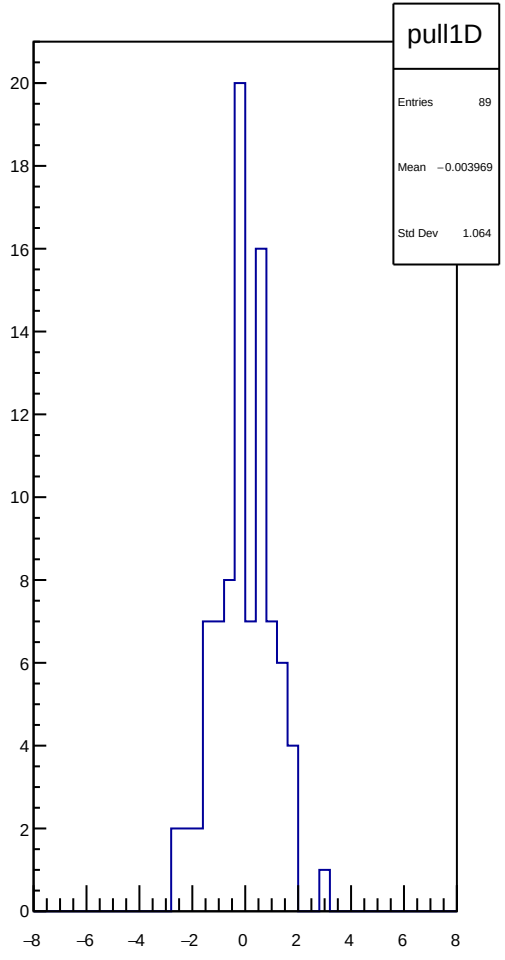

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

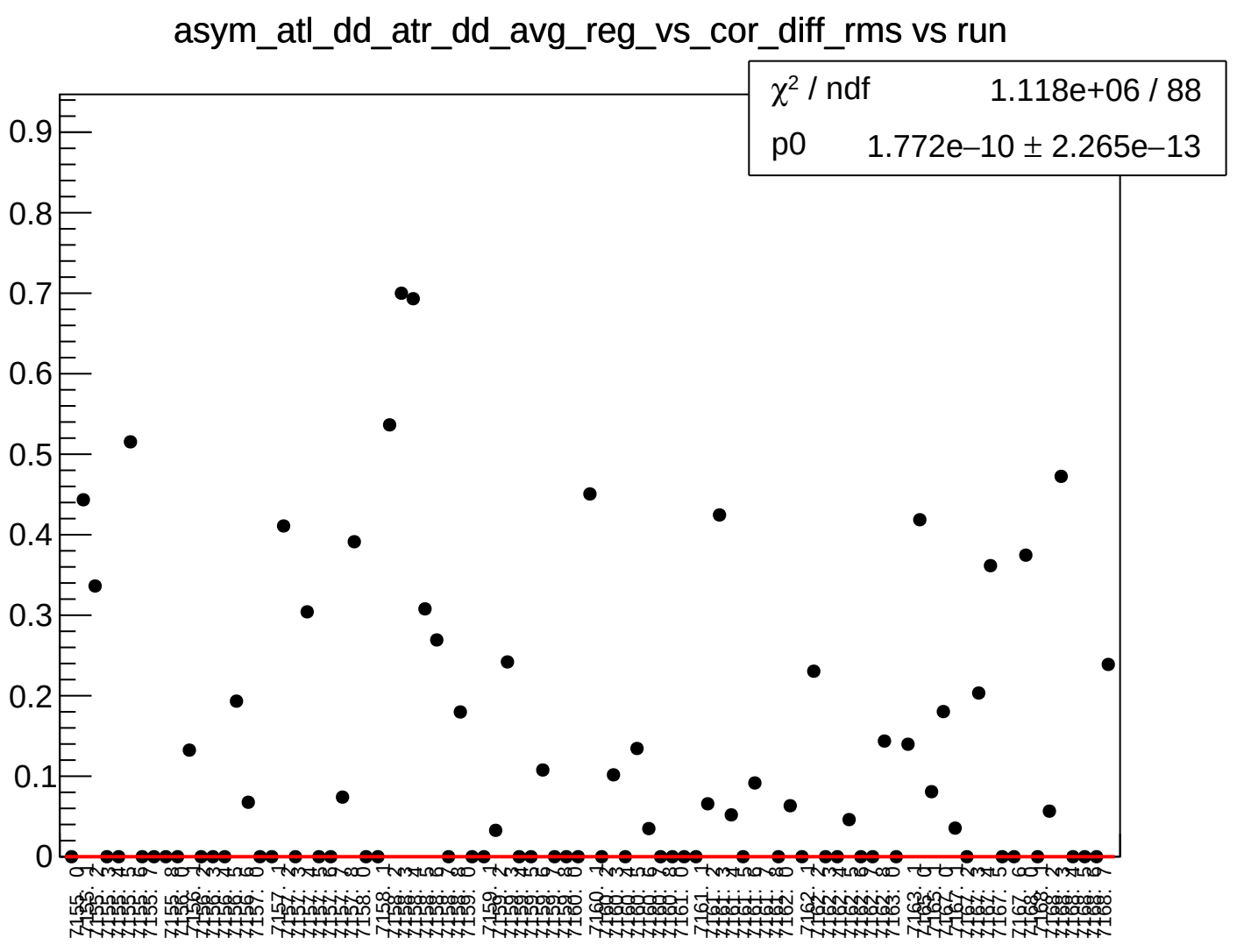

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 70.1 / 88
p0 −742.2 ± 8158
200
100
0
−100
−200
−300
pull
Entries 89
Mean −75.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

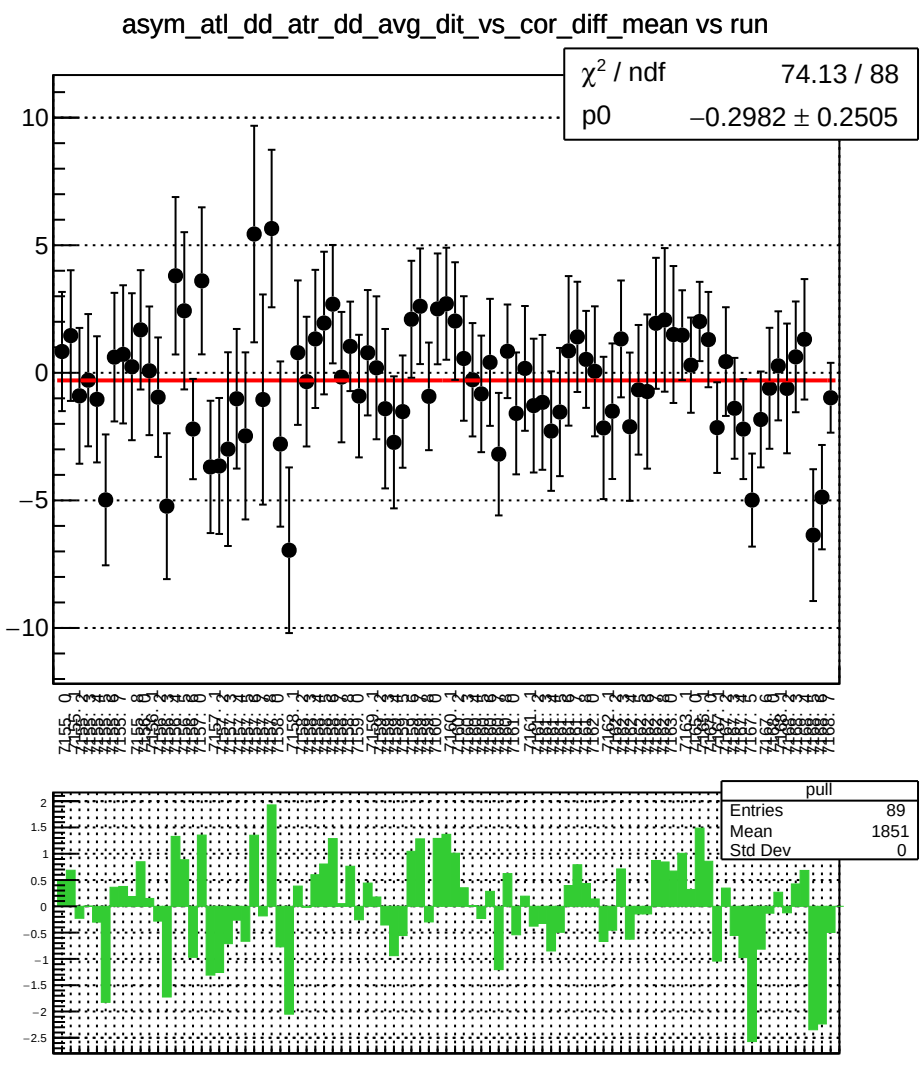

pull1D
Entries 89
Mean 0.01739
Std Dev 0.8873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

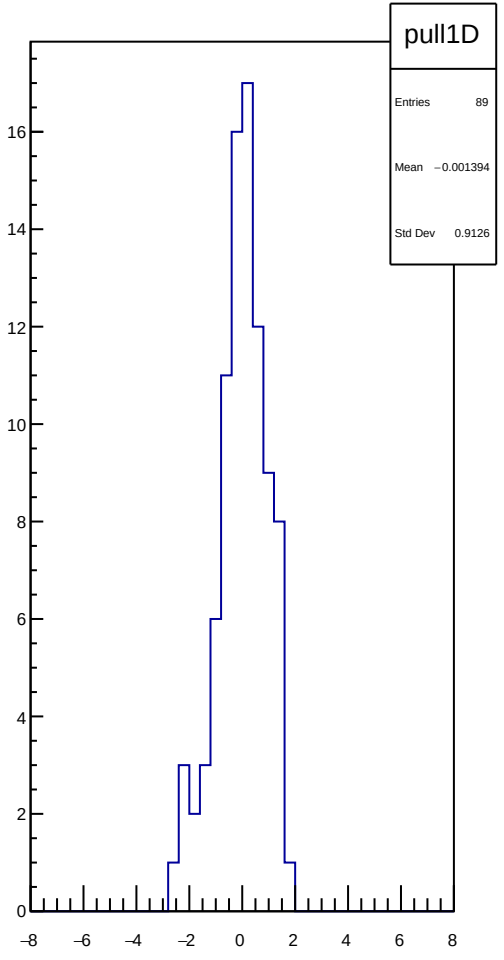

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 8134 / 88
p0 7570 ± 5.769
9000
8500
8000
7500
7000
6500

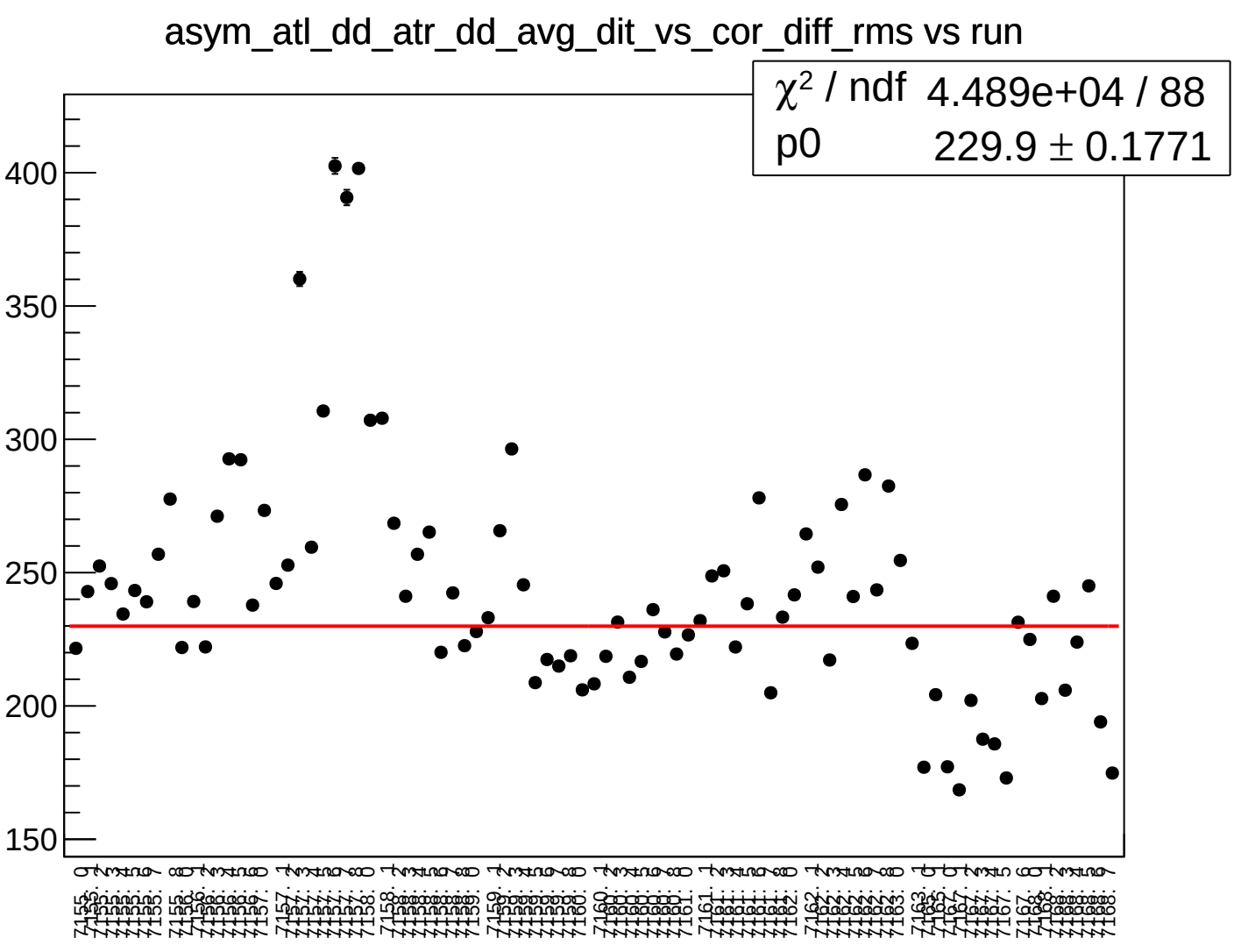

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 −3.678e−13 ± 3.203e−13
pull
Entries 89
Mean 828.4
Std Dev 0

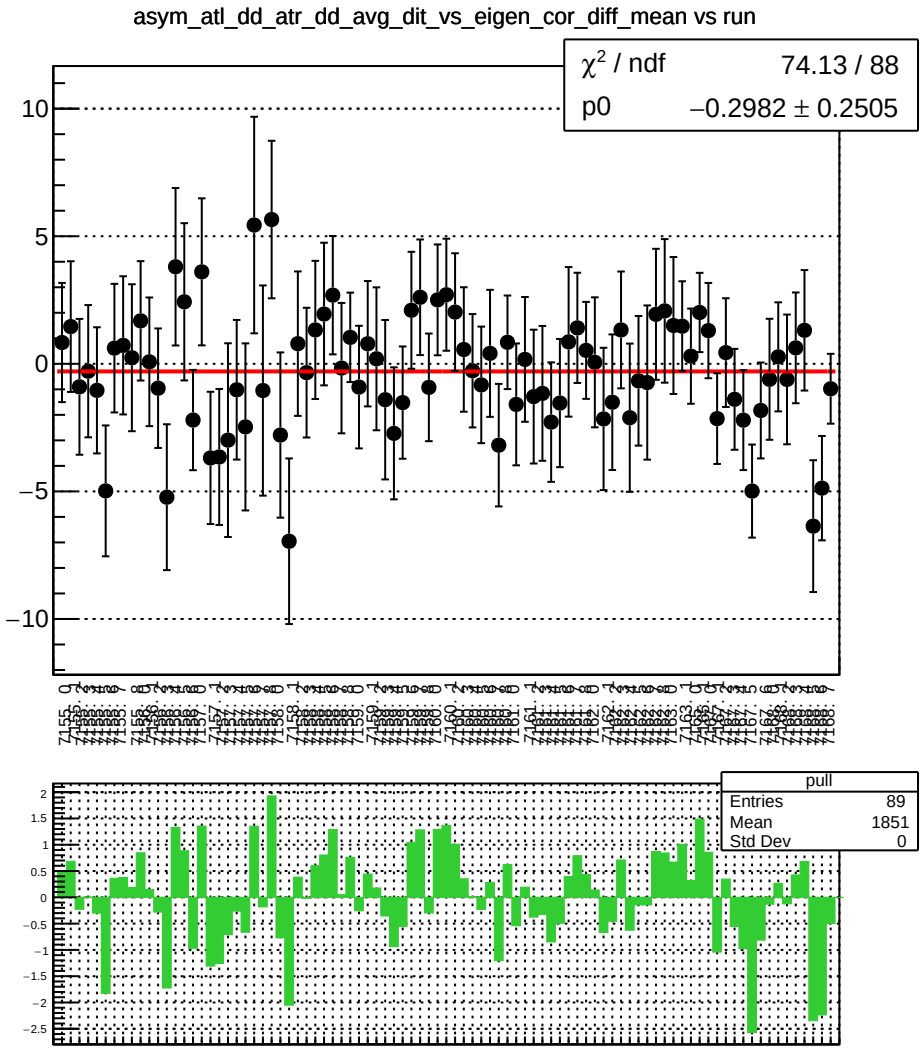

pull1D
Entries 89
Mean −0.003969
Std Dev 1.064

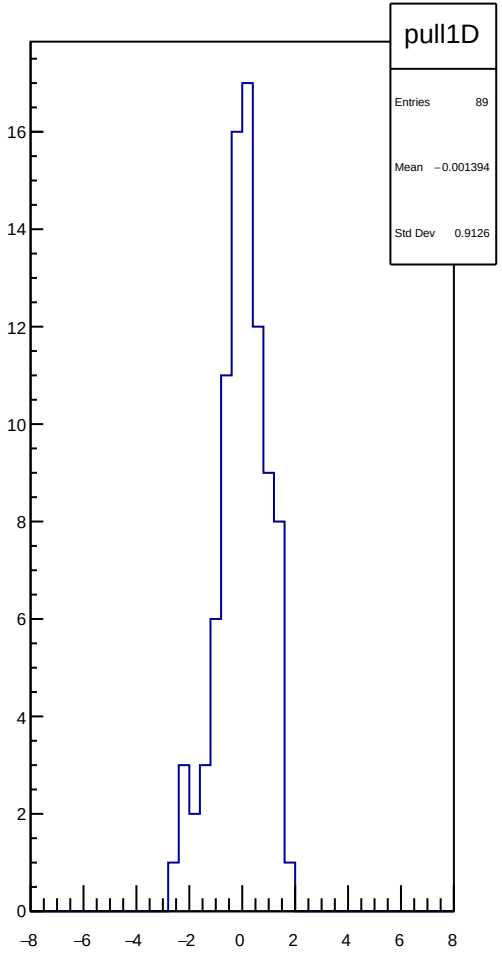

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 88
p0 1.772e−10 ± 2.265e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

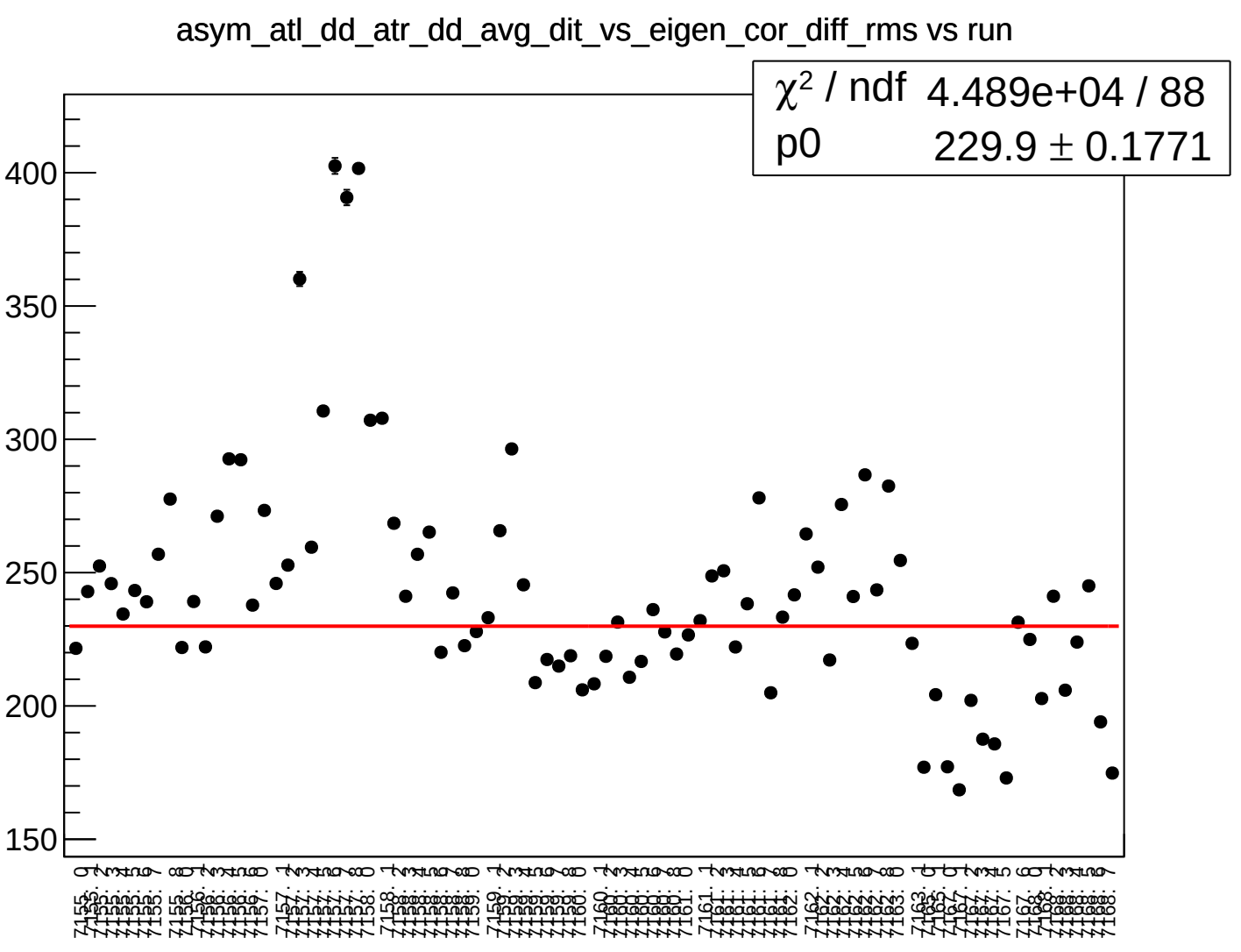

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0

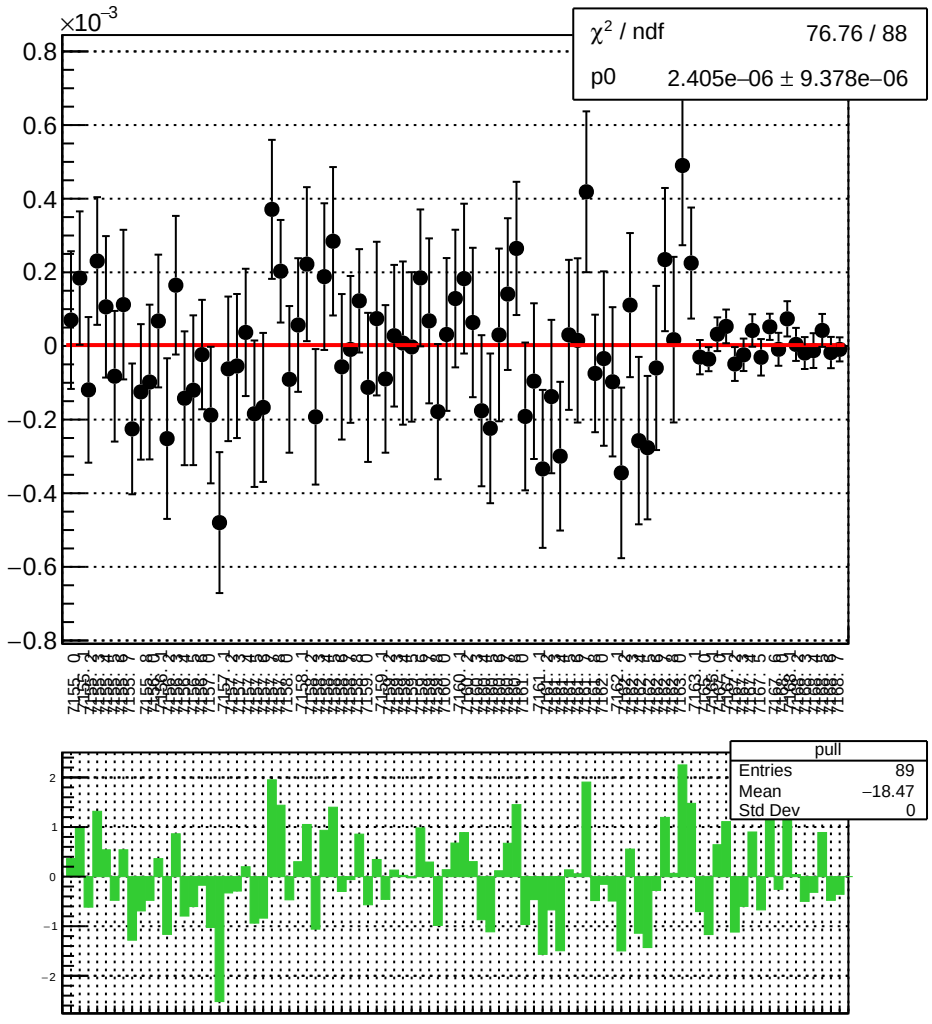

pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

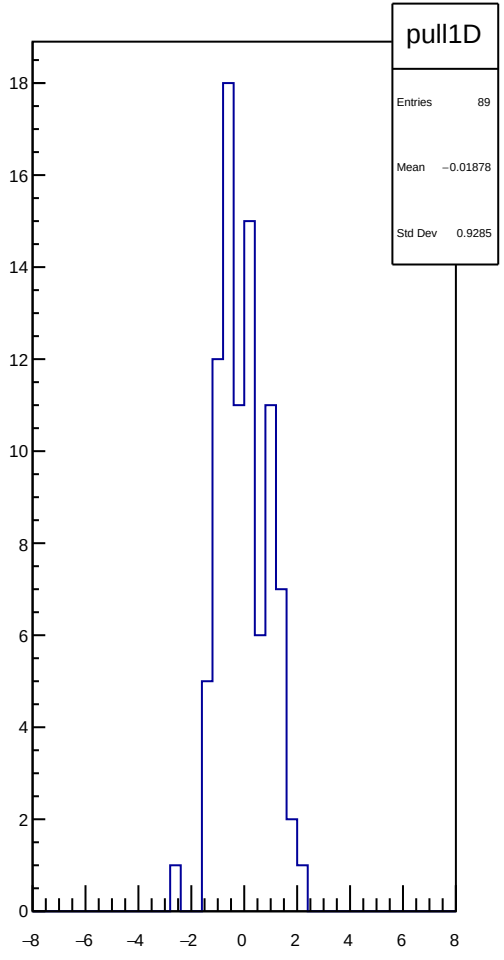

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

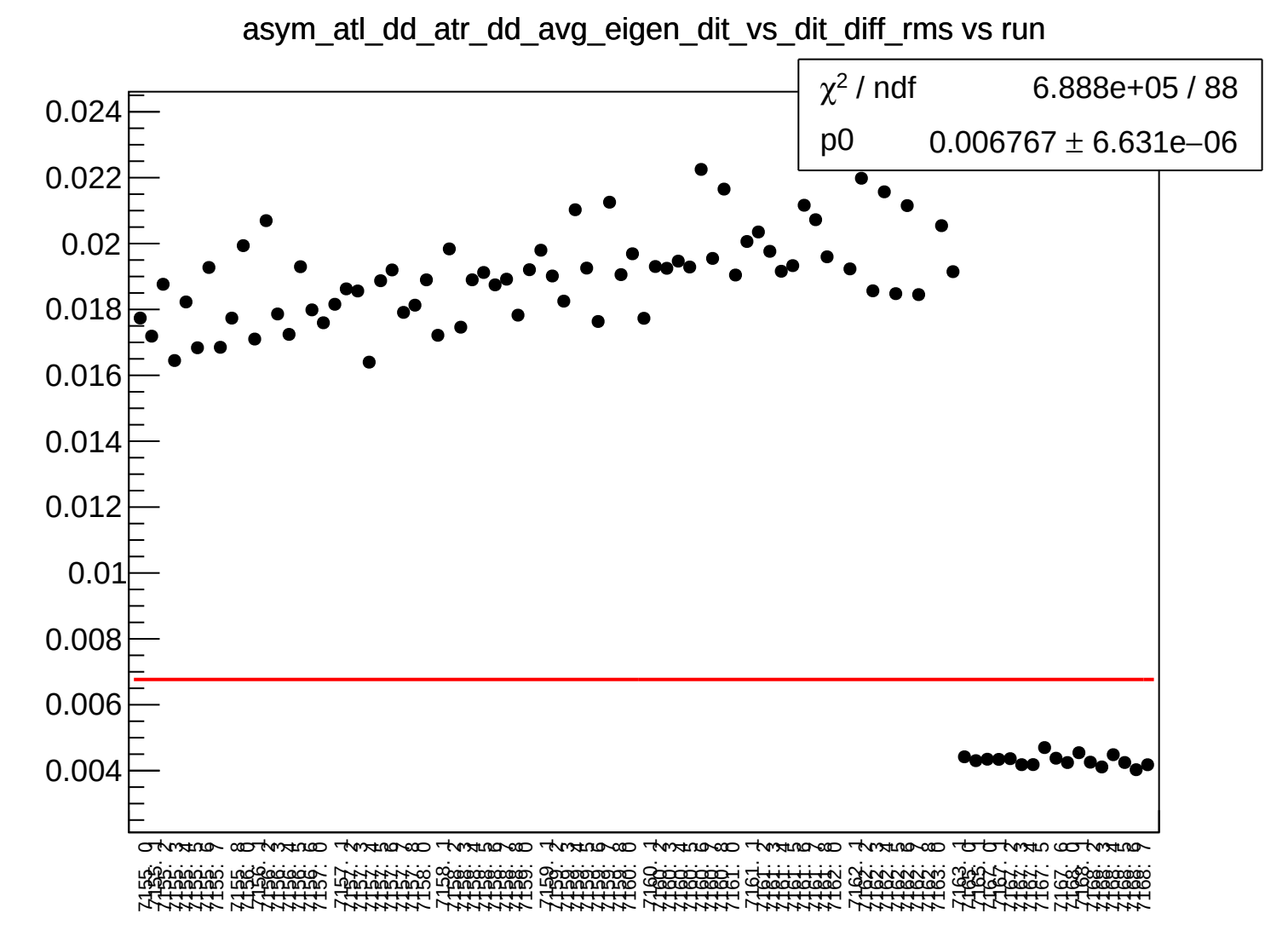

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0

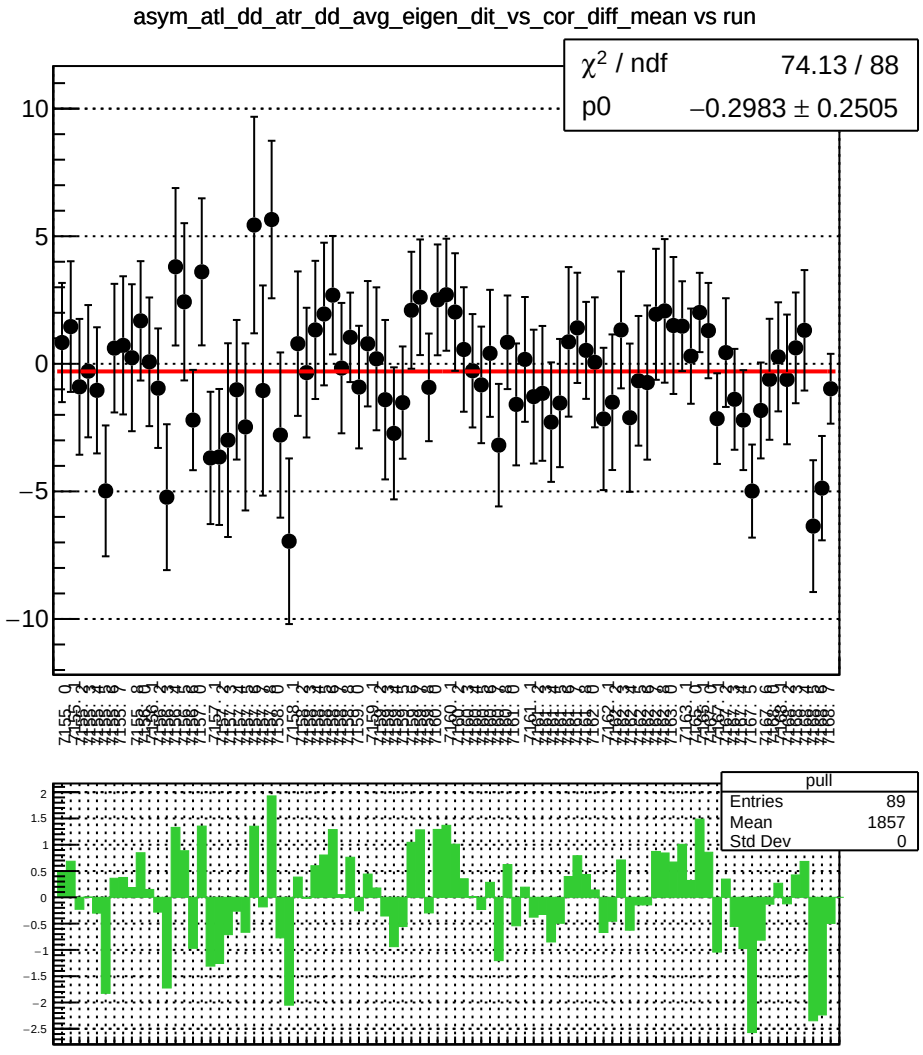

pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

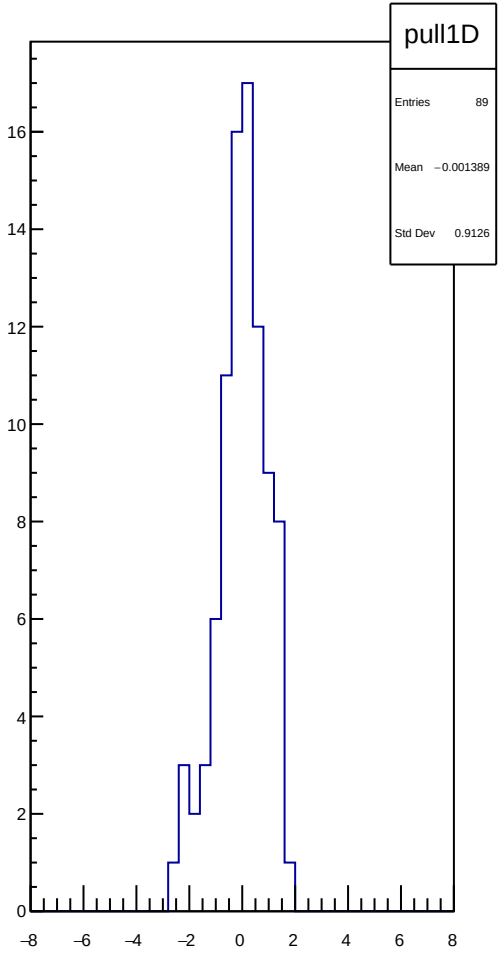

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

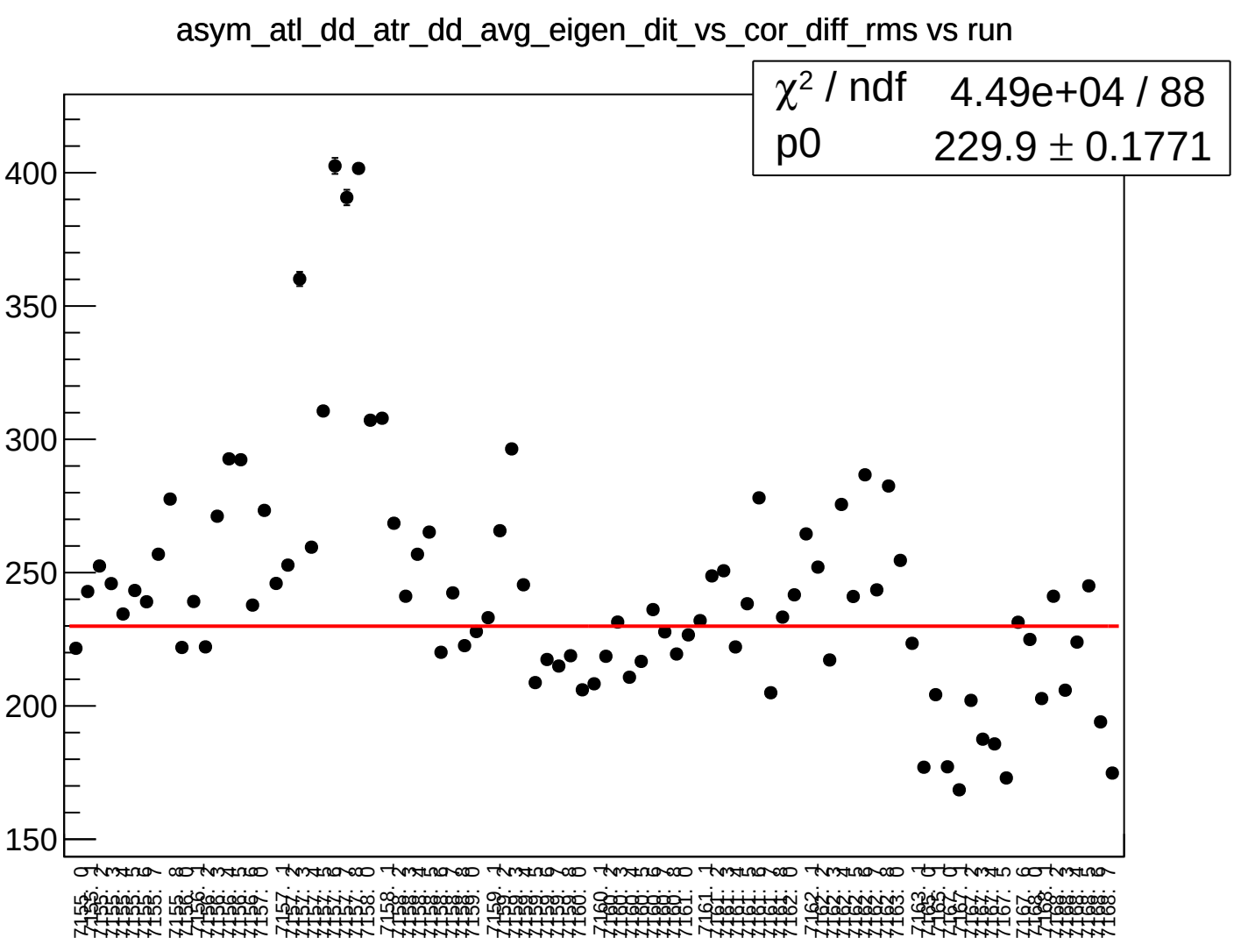

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.76 / 88
p0 2.405e−06 ± 9.378e−06
pull
Entries 89
Mean −18.47
Std Dev 0

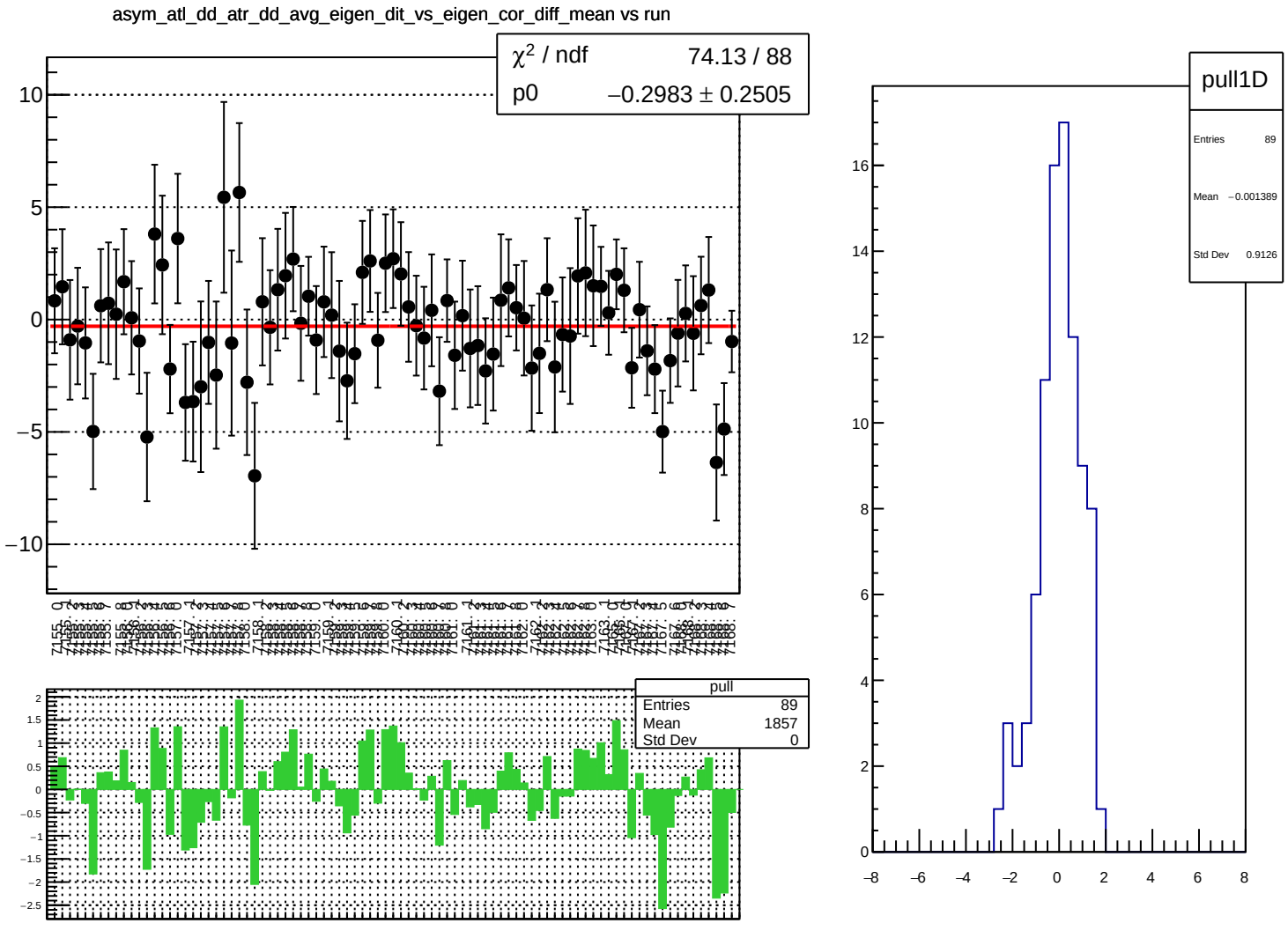

pull1D
Entries 89
Mean −0.01878
Std Dev 0.9285

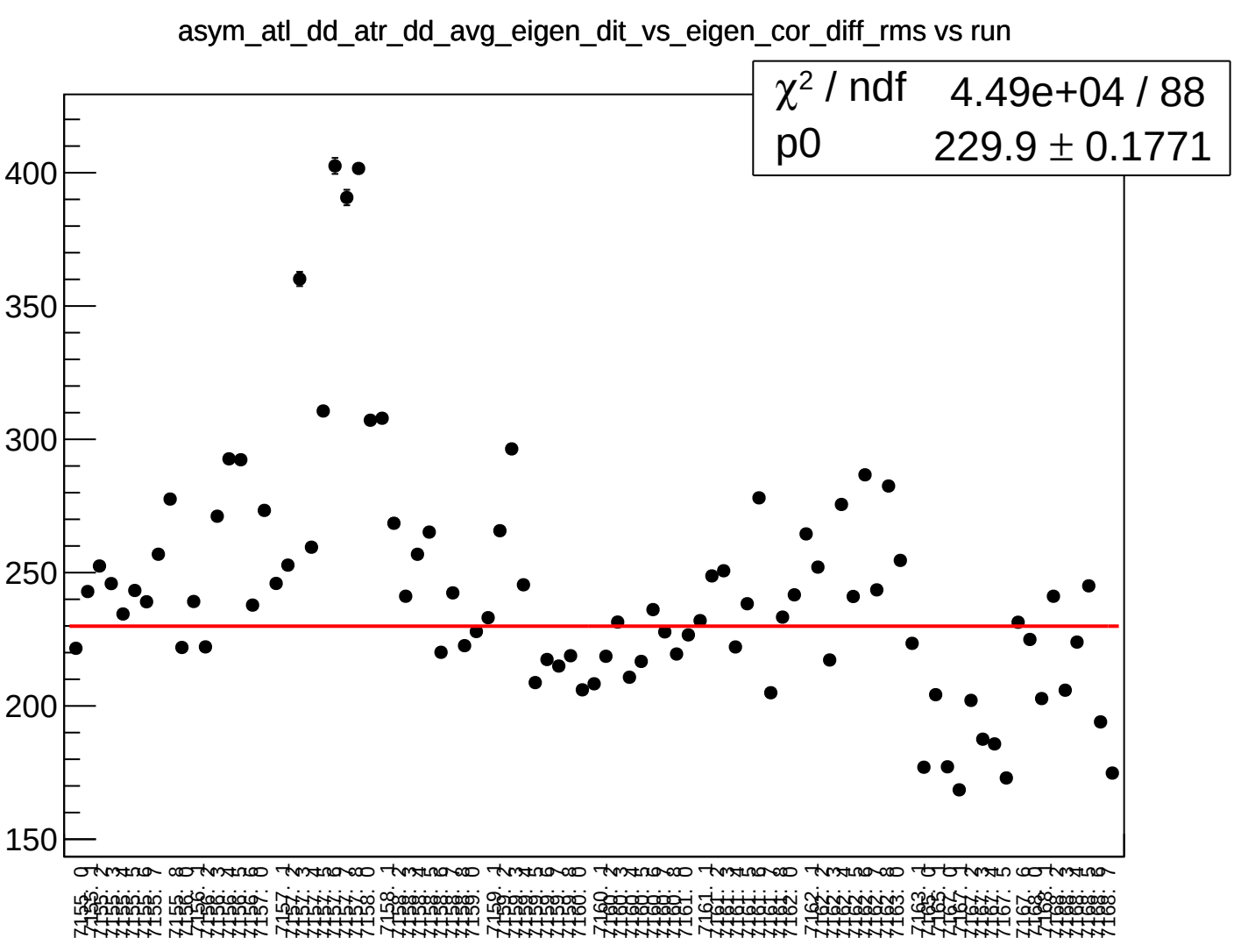

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.888e+05 / 88
p0 0.006767 ± 6.631e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

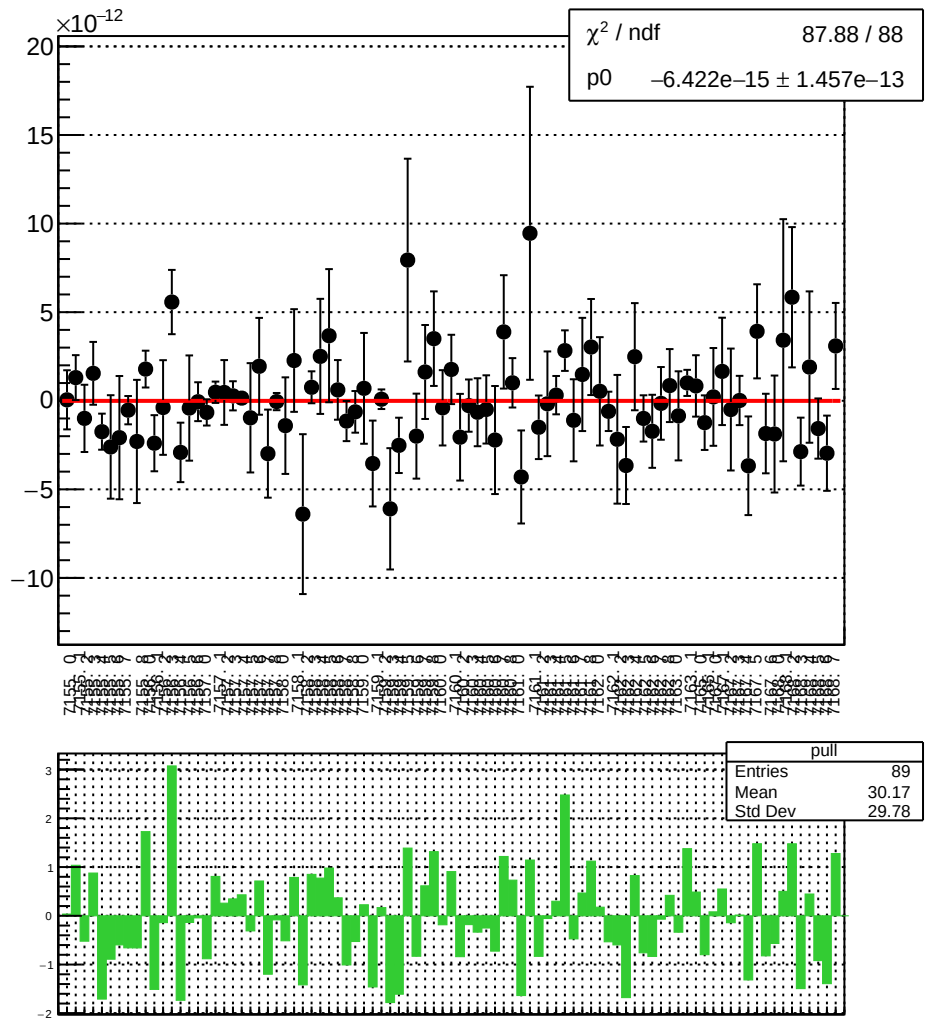

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0

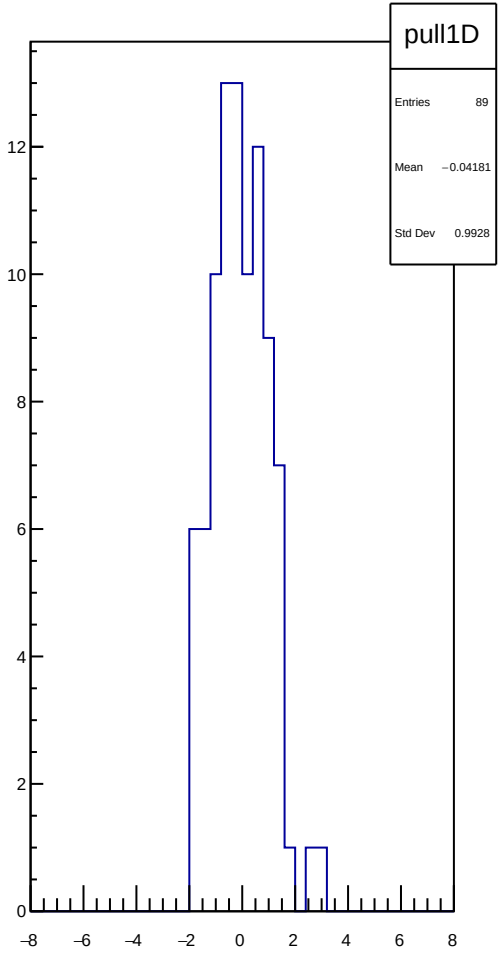

pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

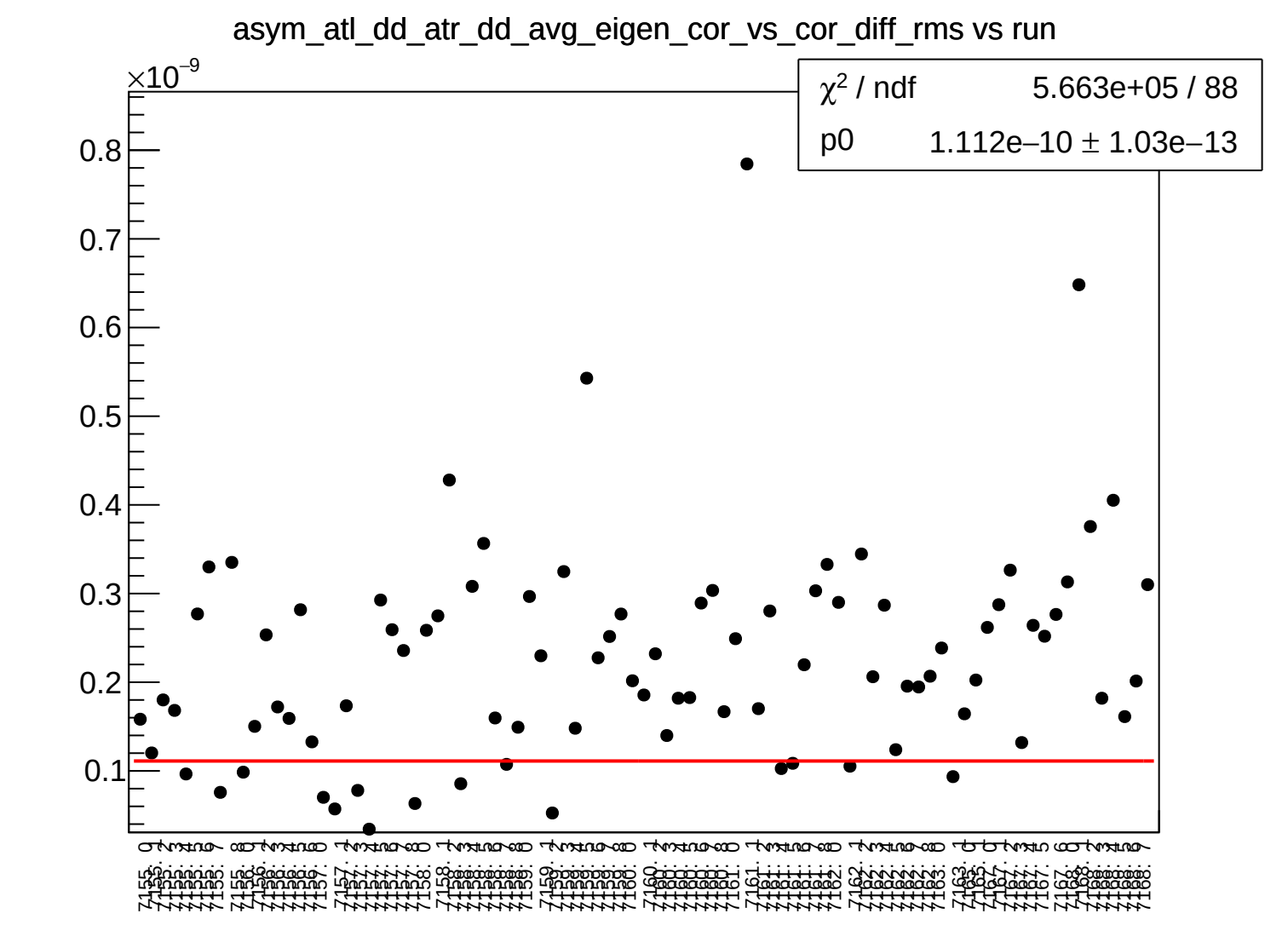

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

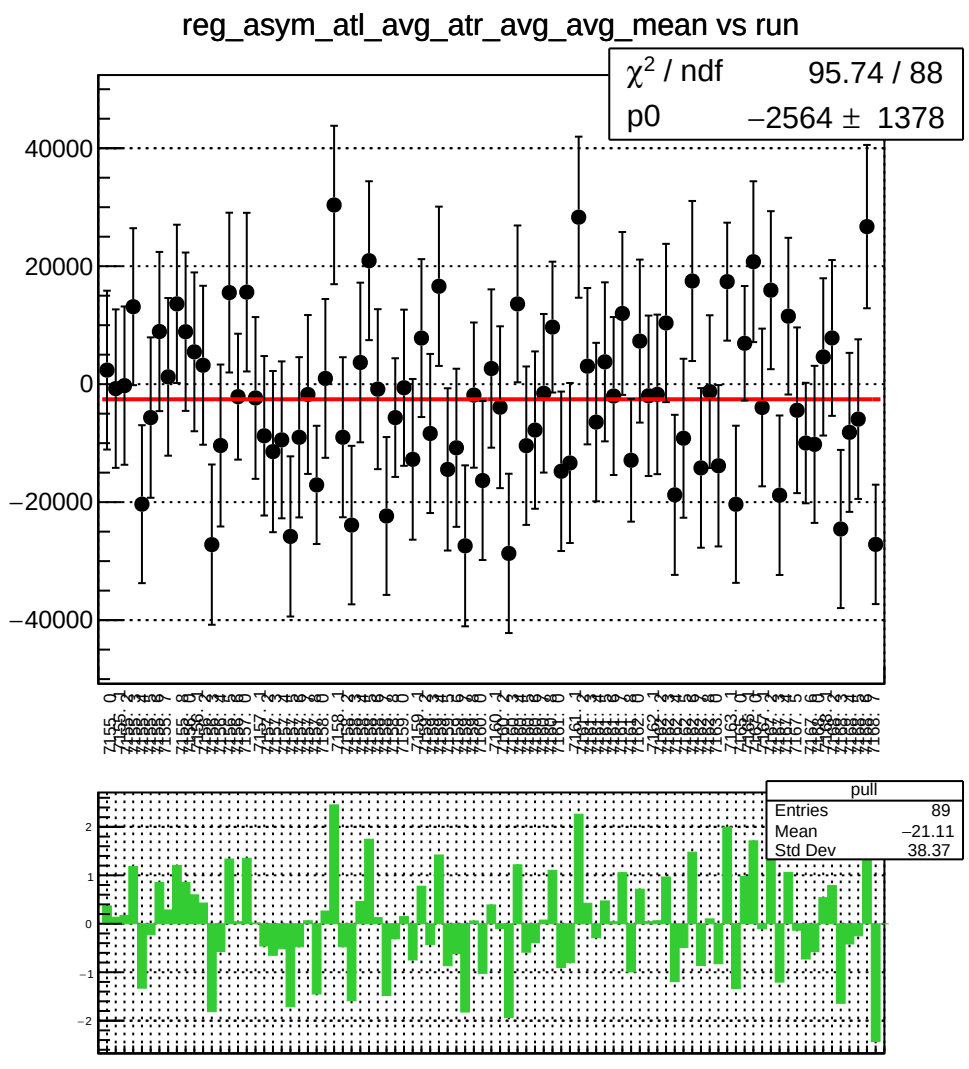

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0
pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

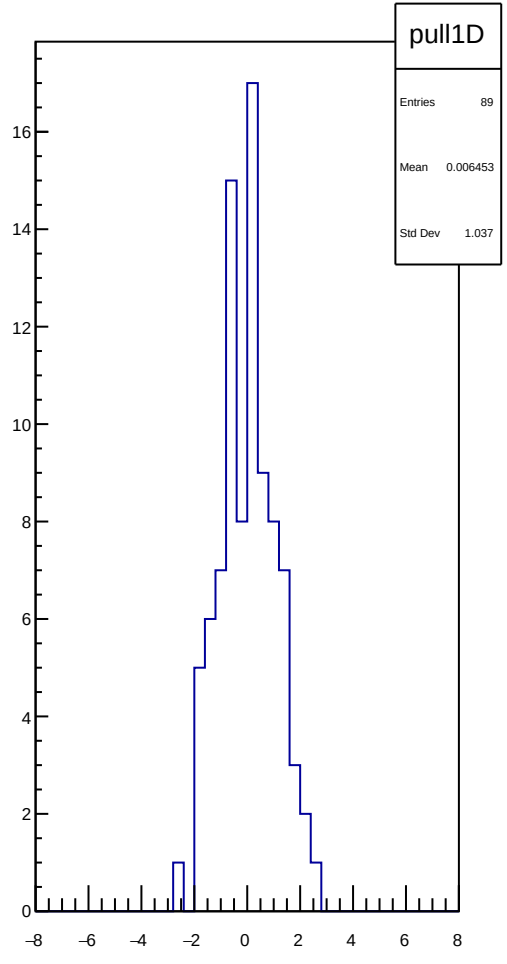

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

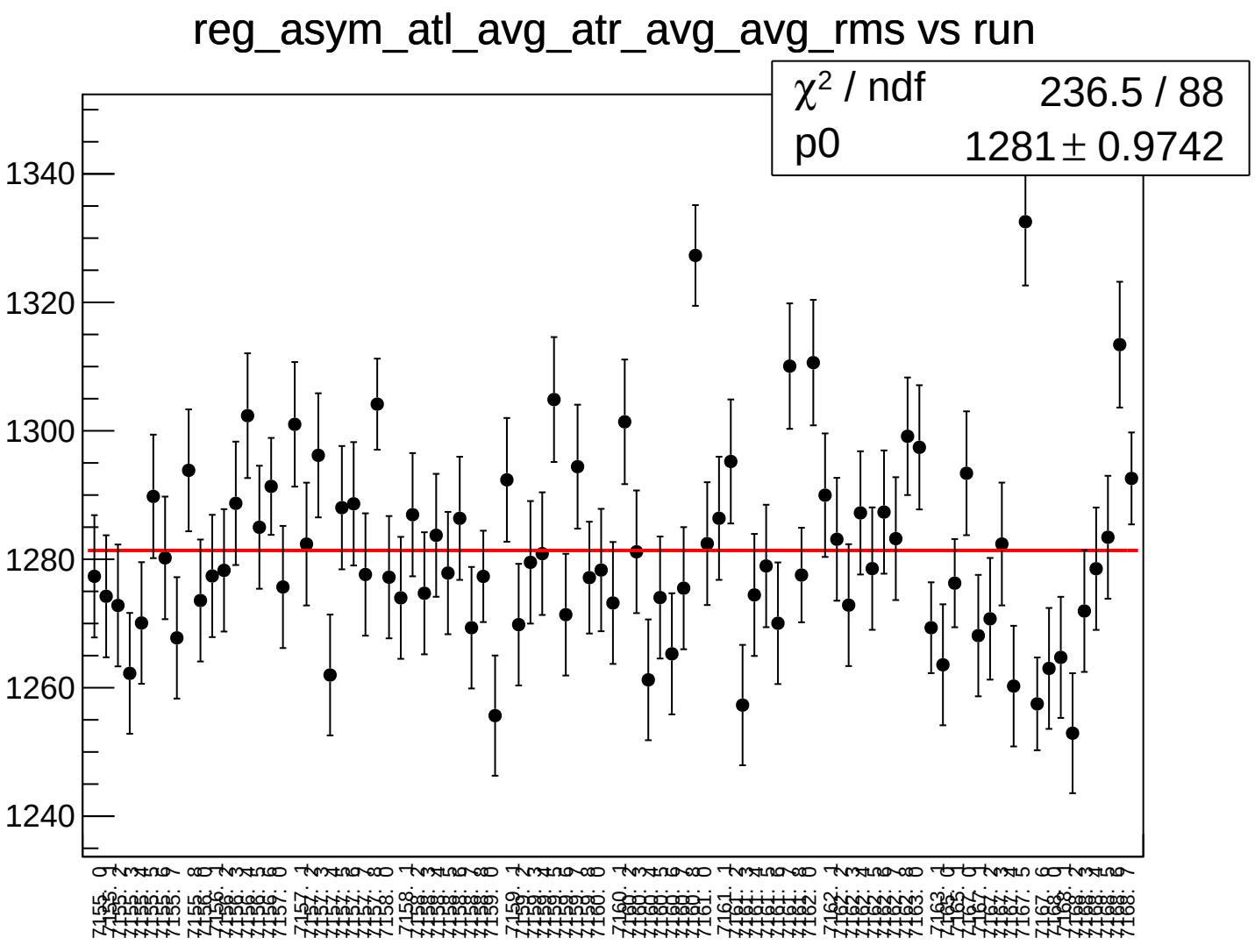

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.88 / 88
p0 −6.422e−15 ± 1.457e−13
pull
Entries 89
Mean 30.17
Std Dev 29.78

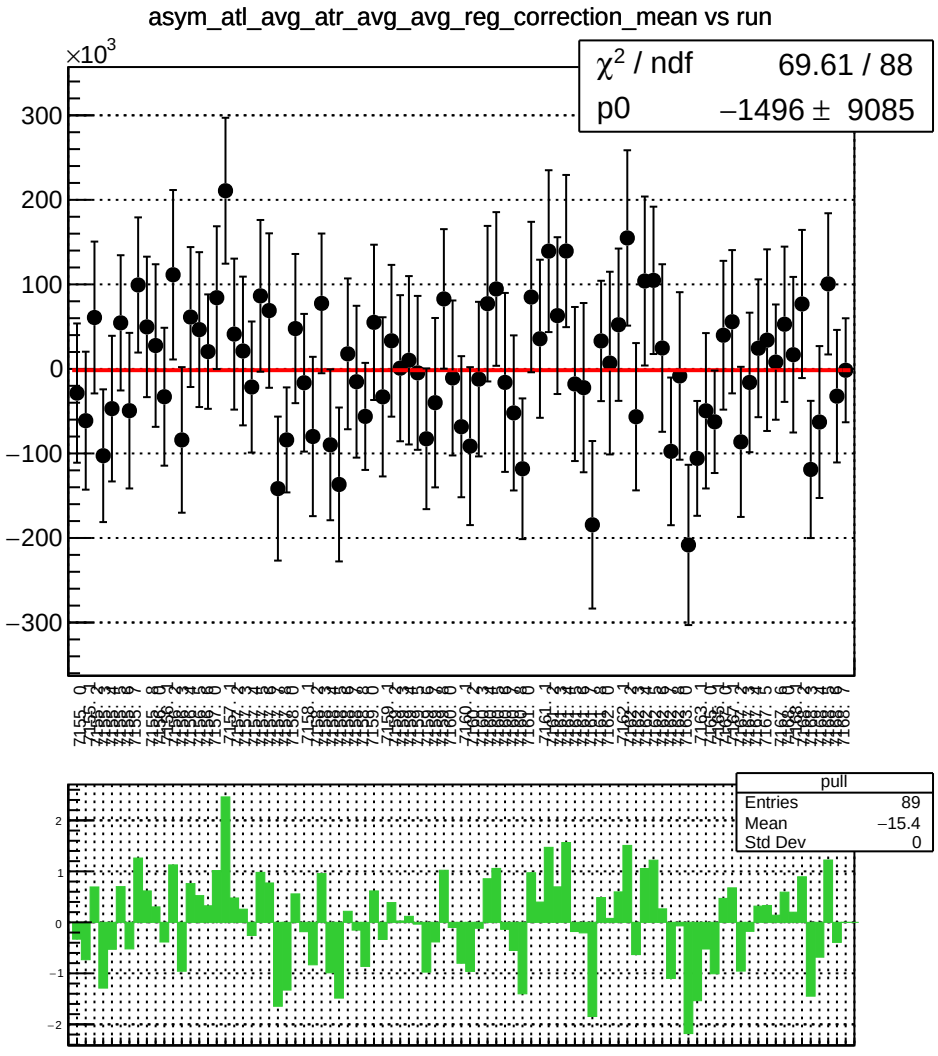

pull1D
Entries 89
Mean −0.04181
Std Dev 0.9928

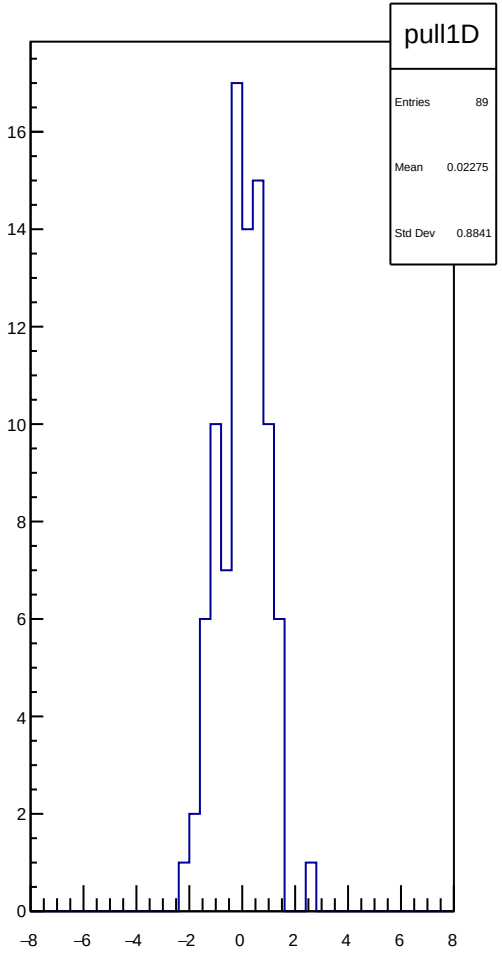

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.663e+05 / 88
p0 1.112e−10 ± 1.03e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

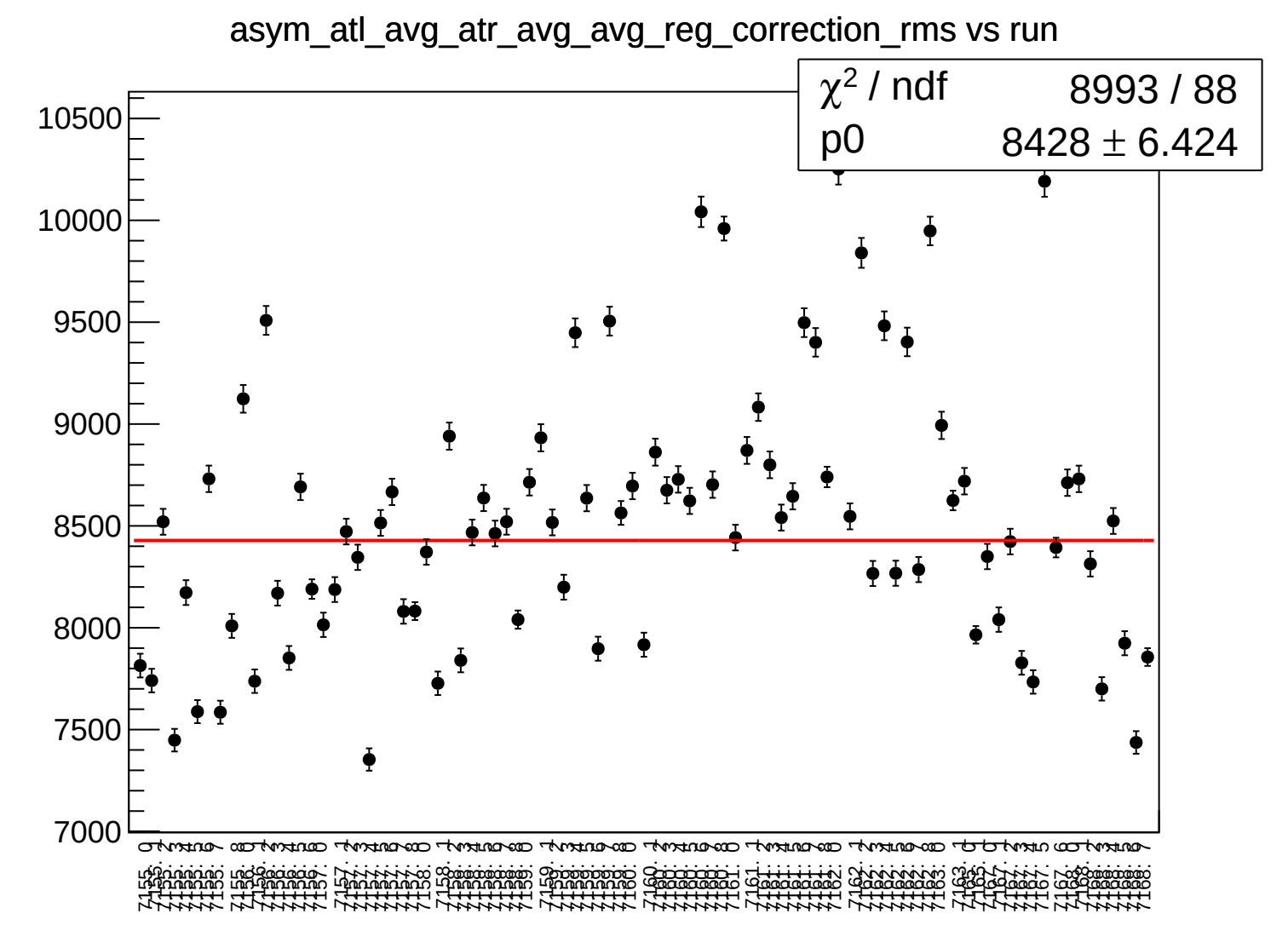

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.74 / 88
p0 −2564 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −21.11
Std Dev 38.37
2
1
0
−1
−2

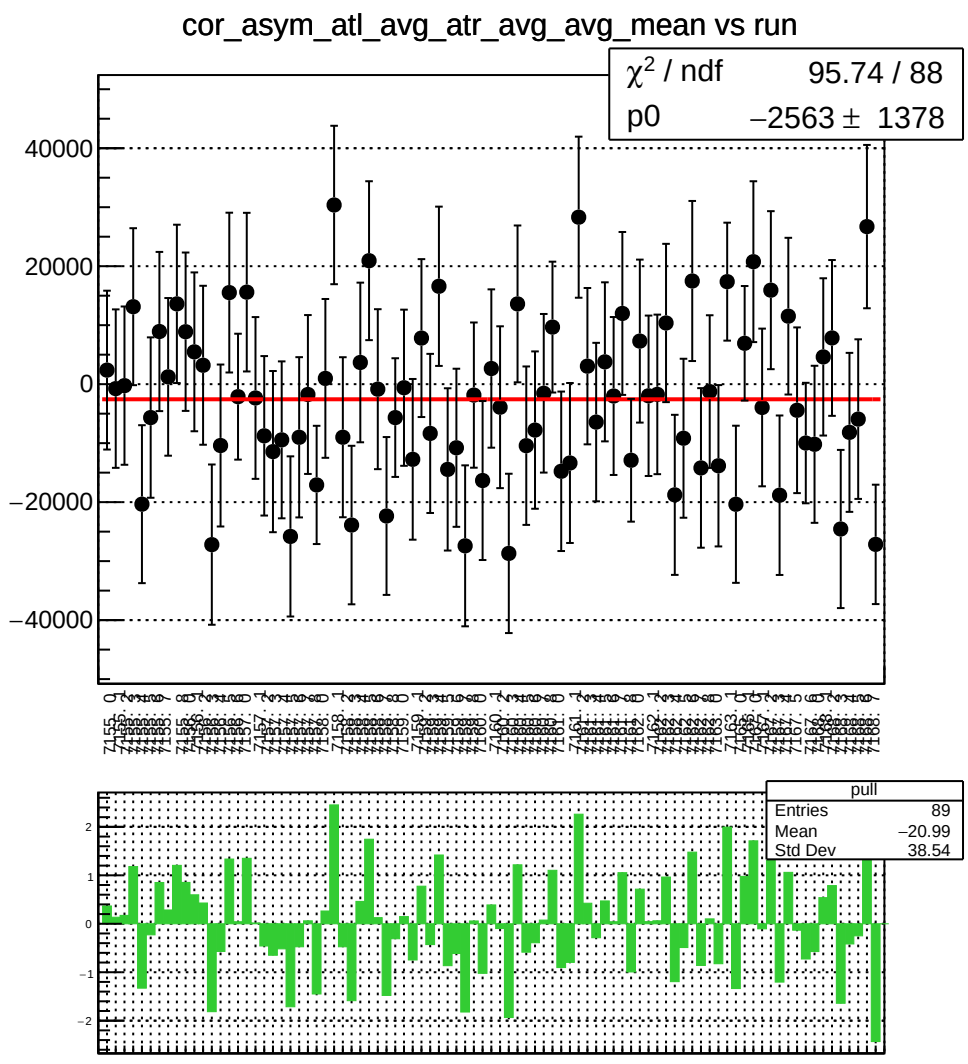

pull1D
Entries 89
Mean 0.006453
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

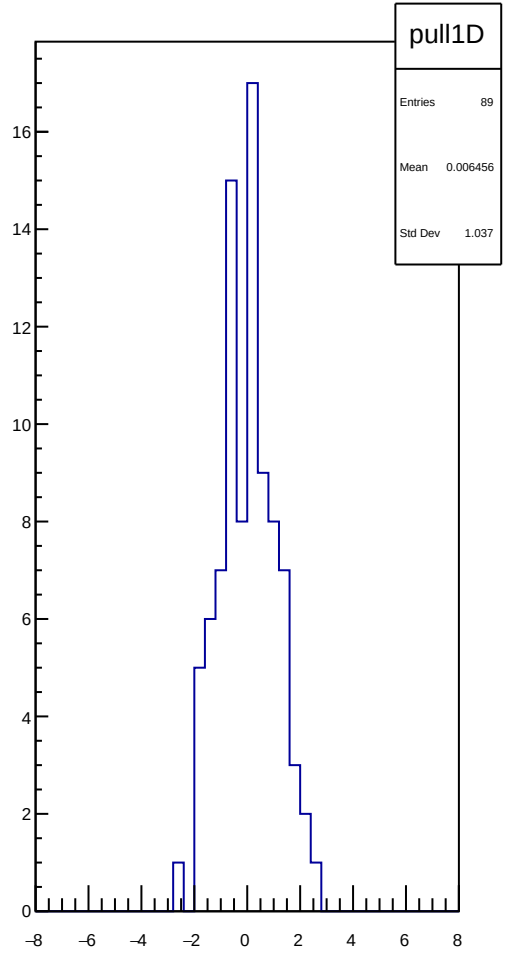

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 236.5 / 88
p0 1281 ± 0.9742
1340
1320
1300
1280
1260
1240

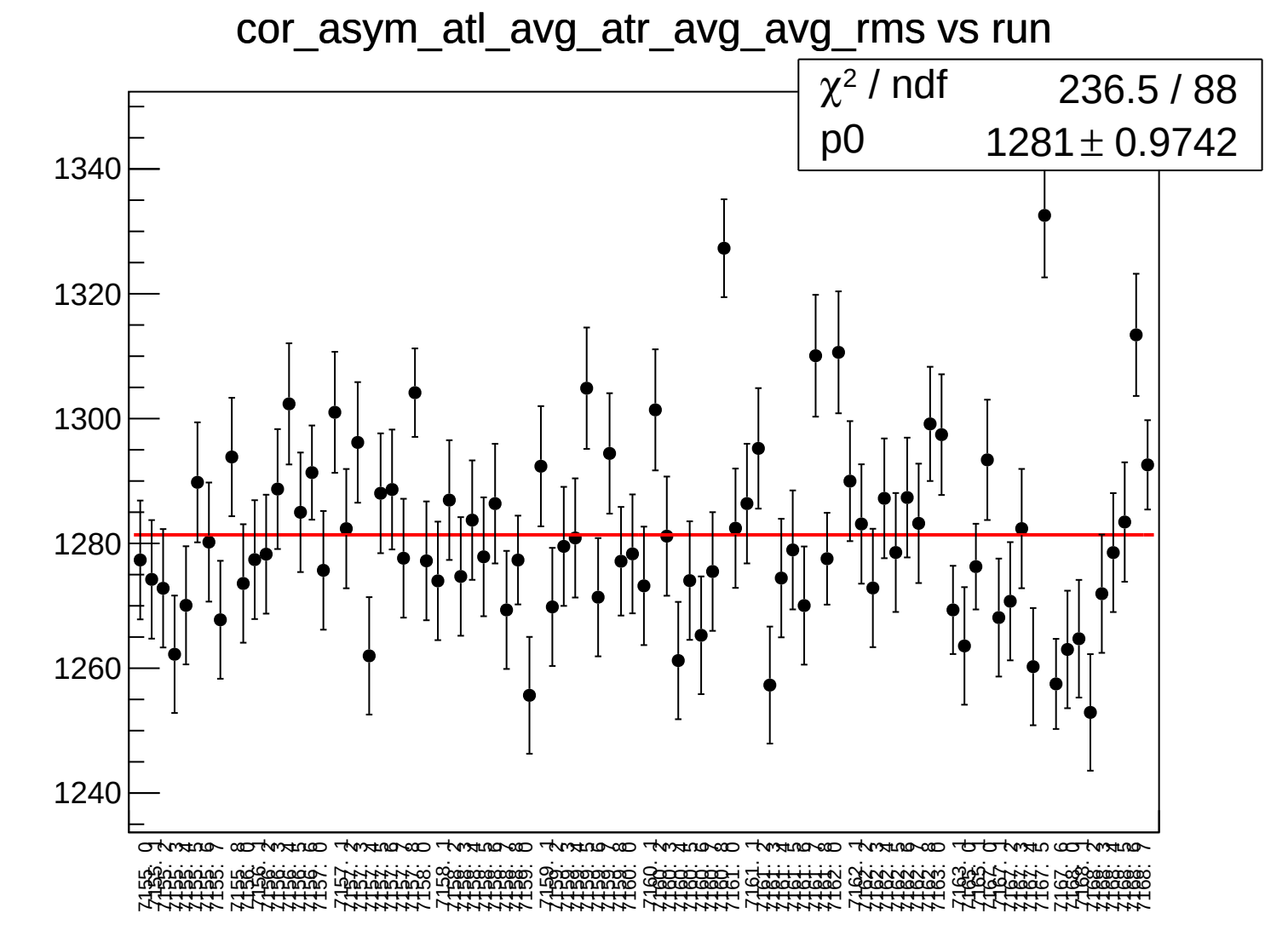

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1496 ± 9085
pull
Entries 89
Mean −15.4
Std Dev 0

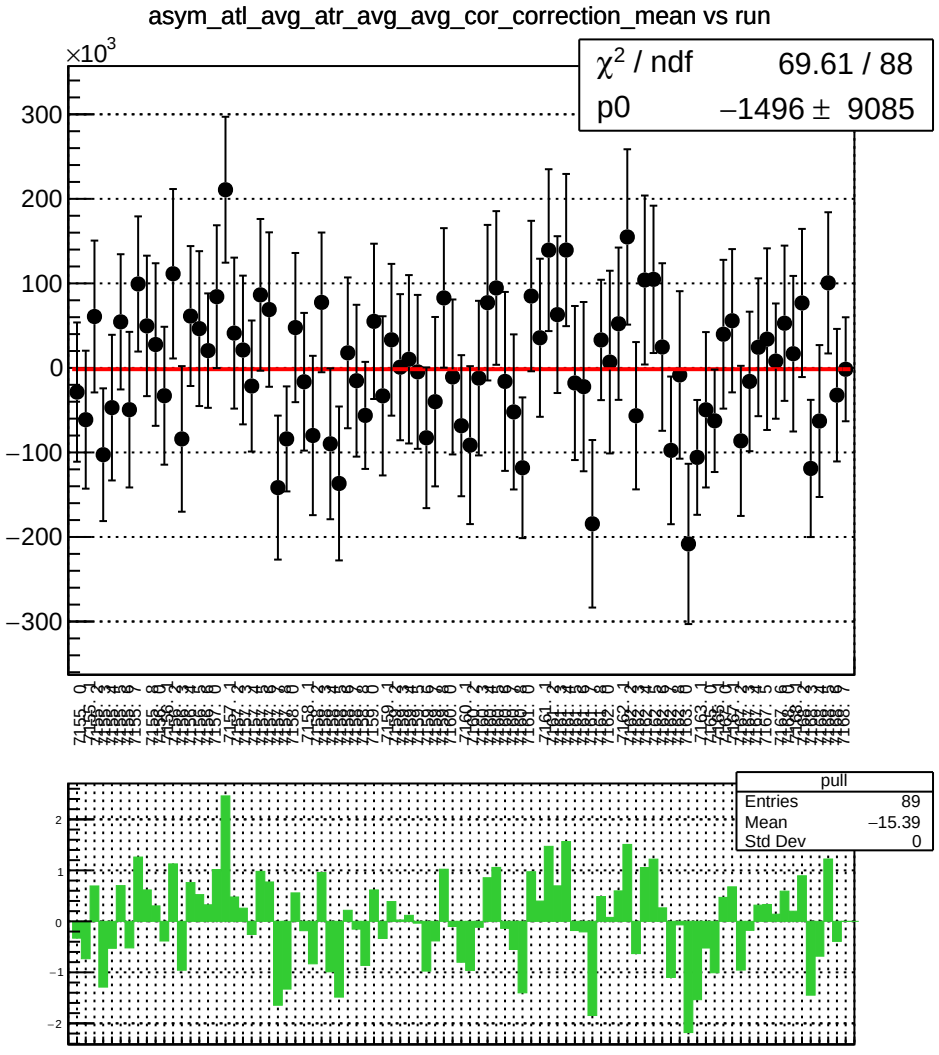

pull1D
Entries 89
Mean 0.02275
Std Dev 0.8841

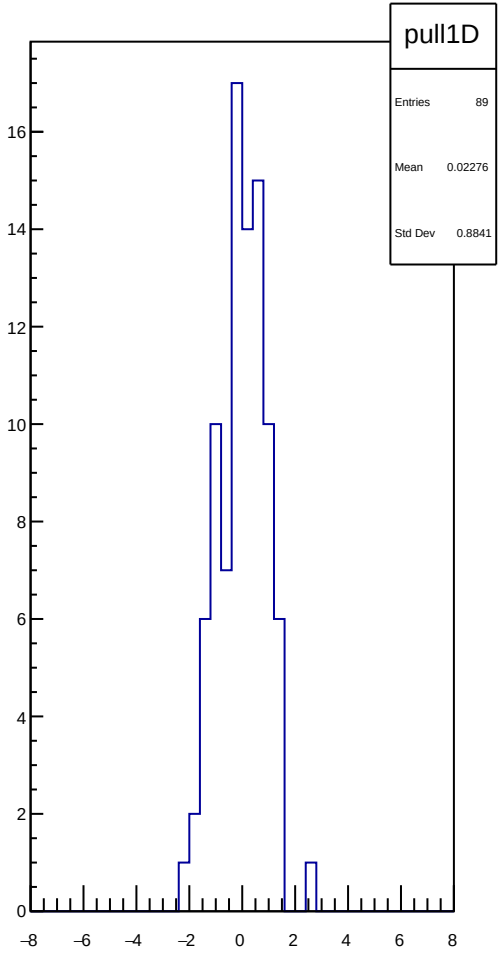

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 8993 / 88
p0 8428 ± 6.424
10500
10000
9500
9000
8500
8000
7500
7000

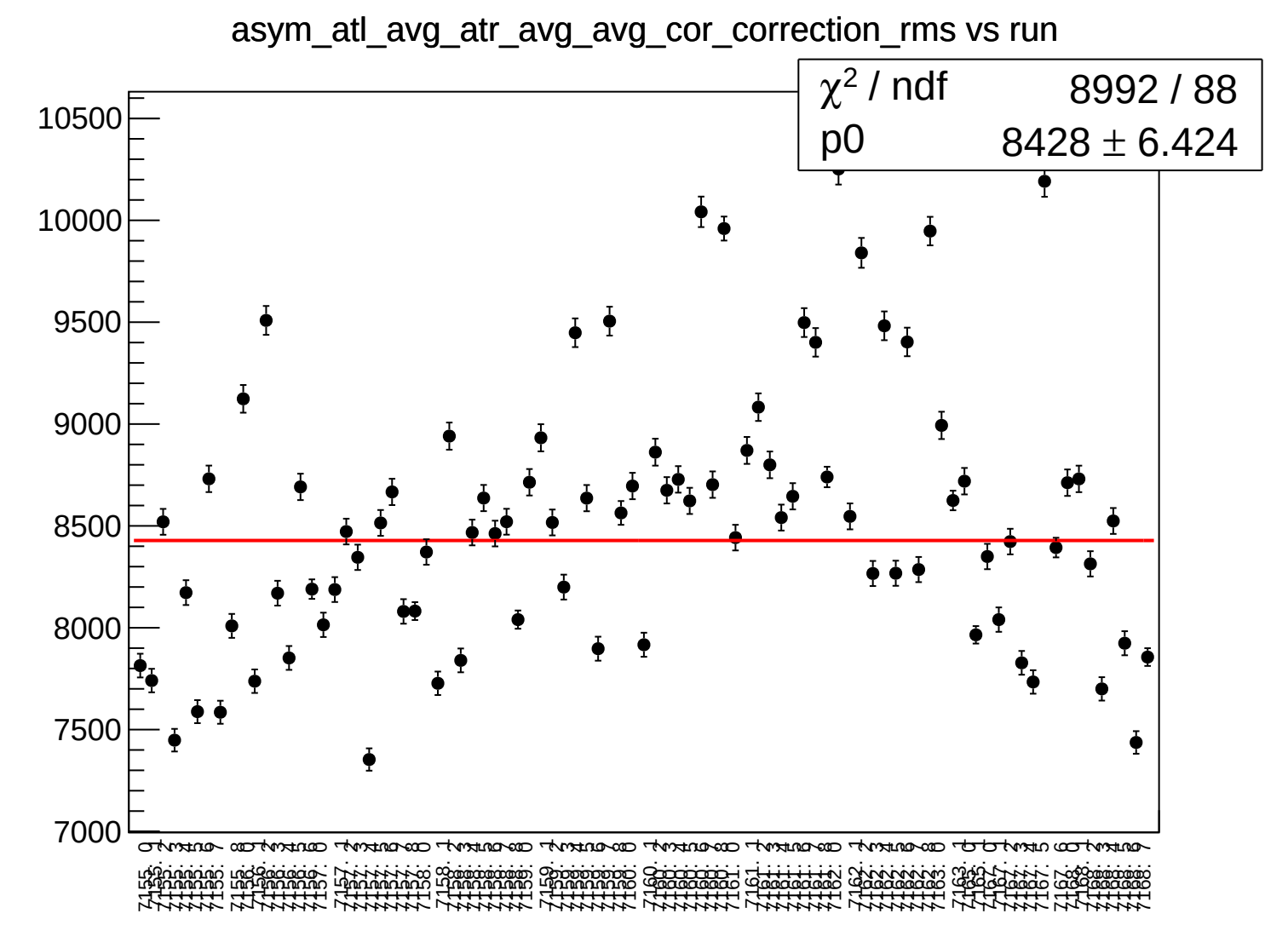

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.74 / 88
p0 −2563 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −20.99
Std Dev 38.54
2
1
0
−1
−2

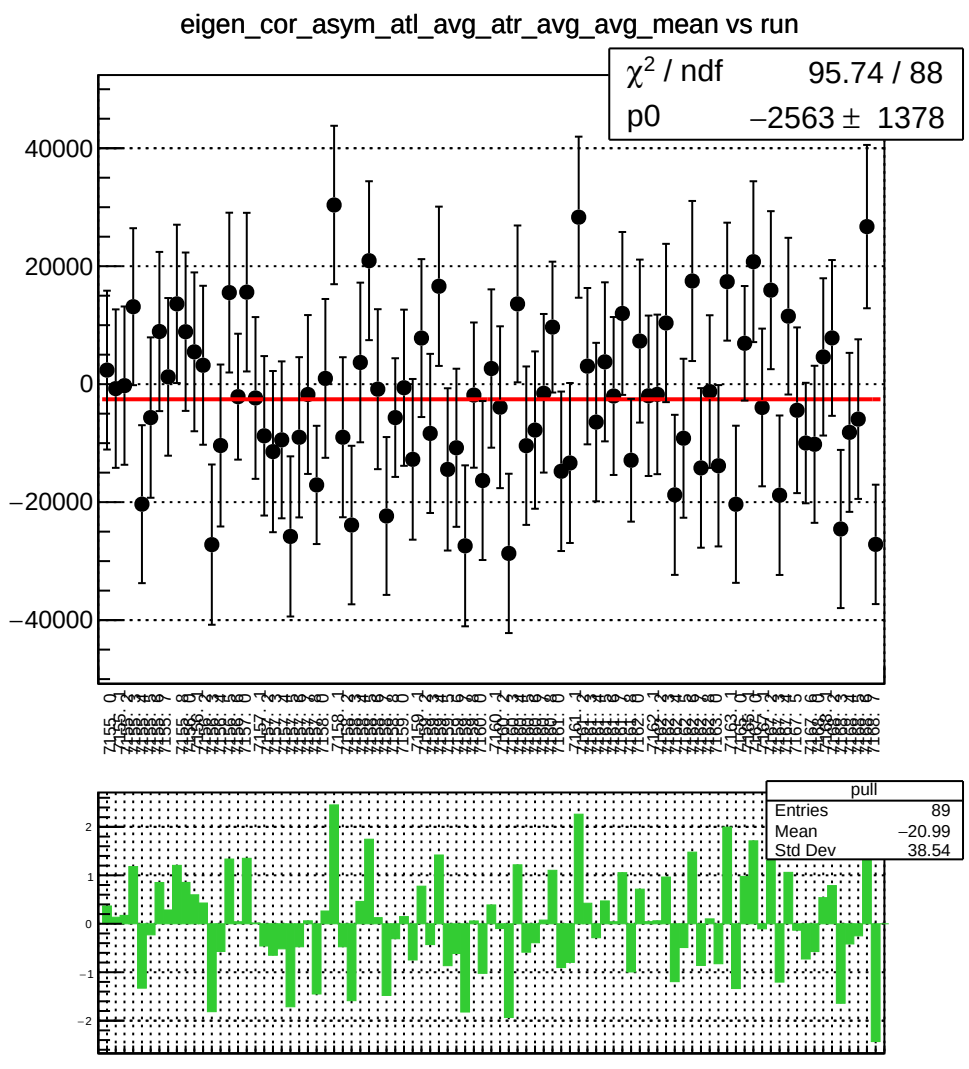

pull1D
Entries 89
Mean 0.006456
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

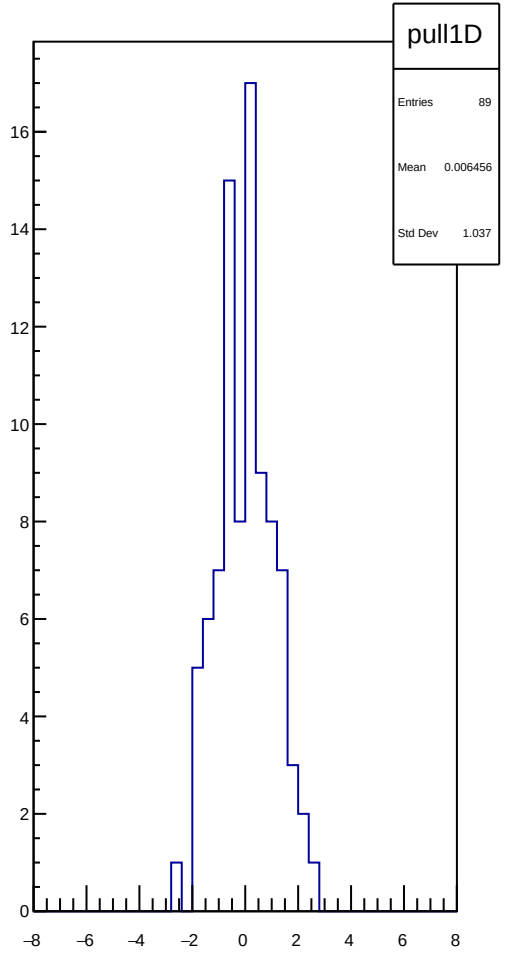

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 236.5 / 88
p0 1281 ± 0.9742
1340
1320
1300
1280
1260
1240

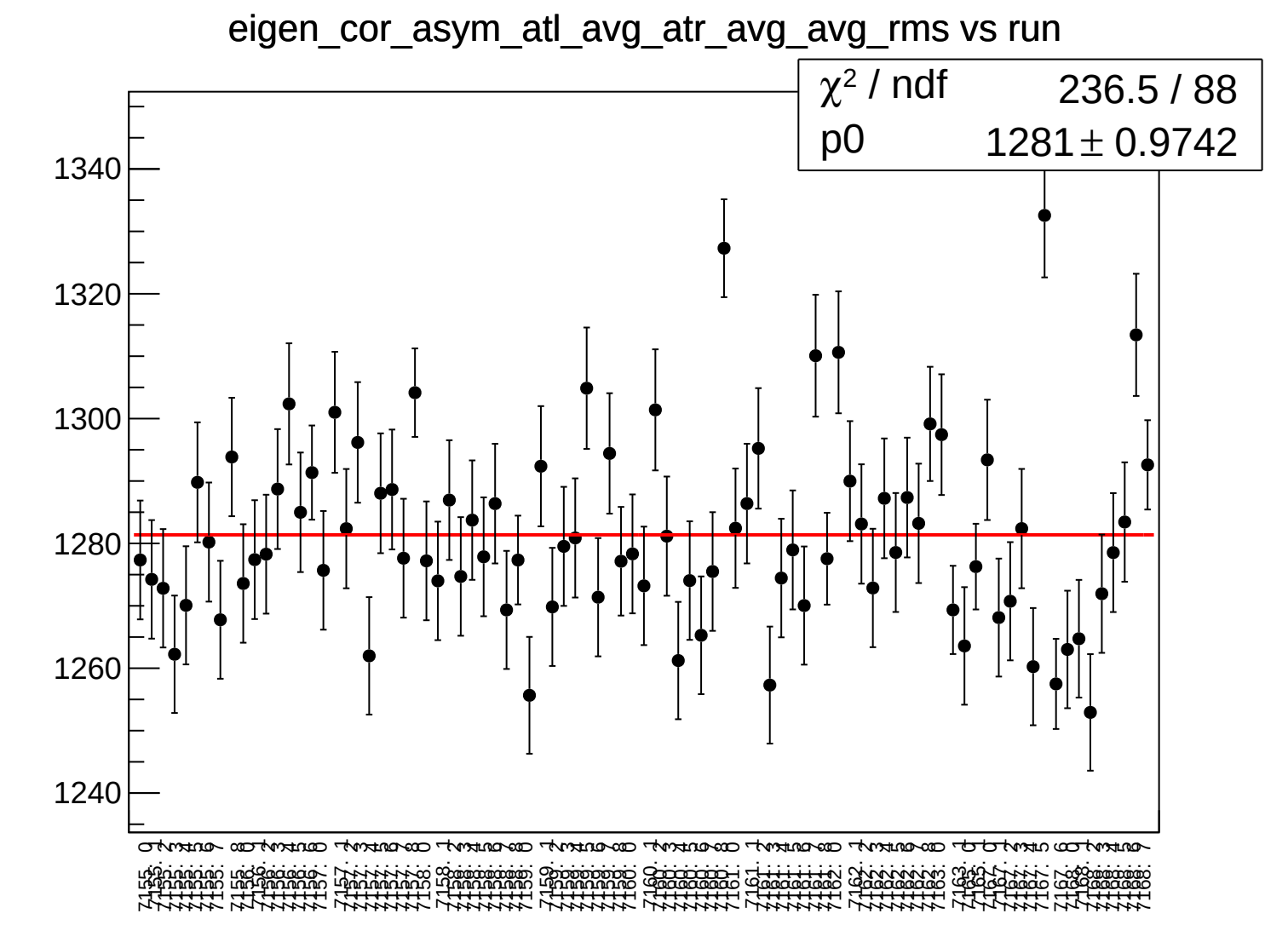

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1496 ± 9085
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −15.39
Std Dev 0
2
1
0
−1
−2

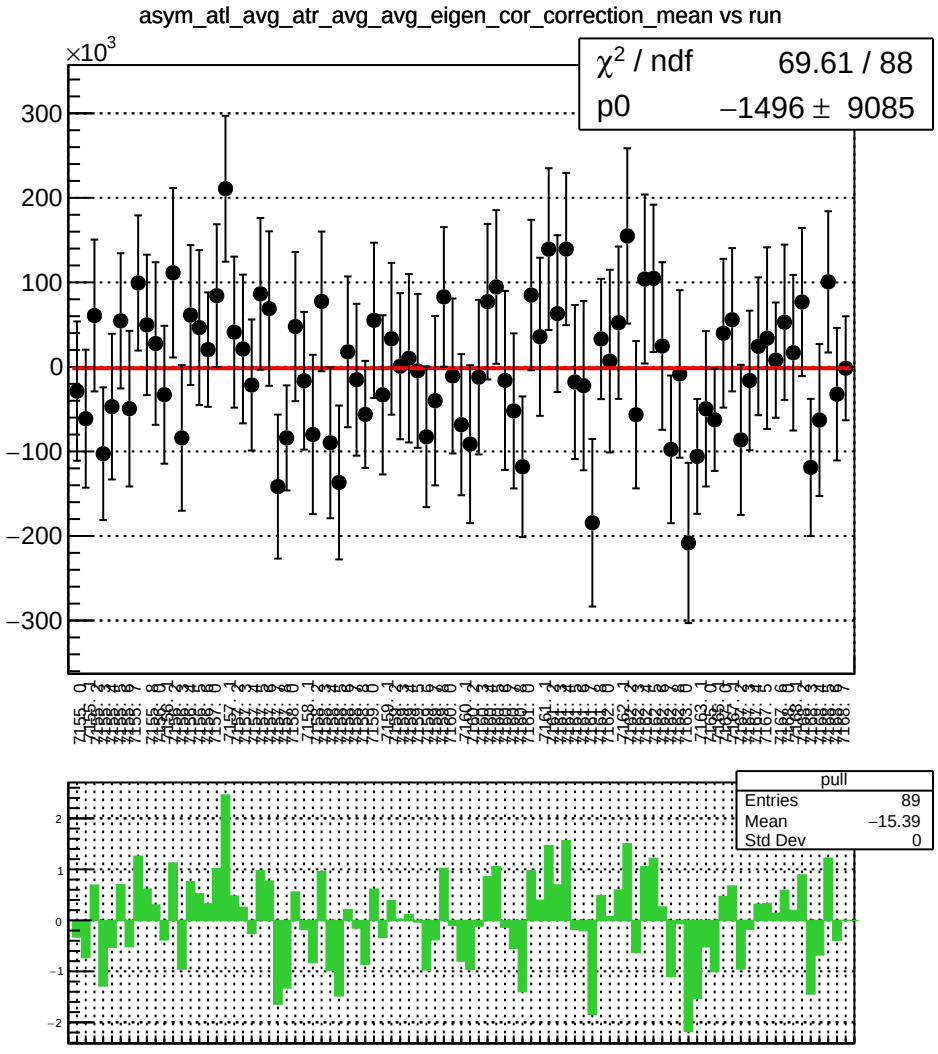

pull1D
Entries 89
Mean 0.02276
Std Dev 0.8841
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

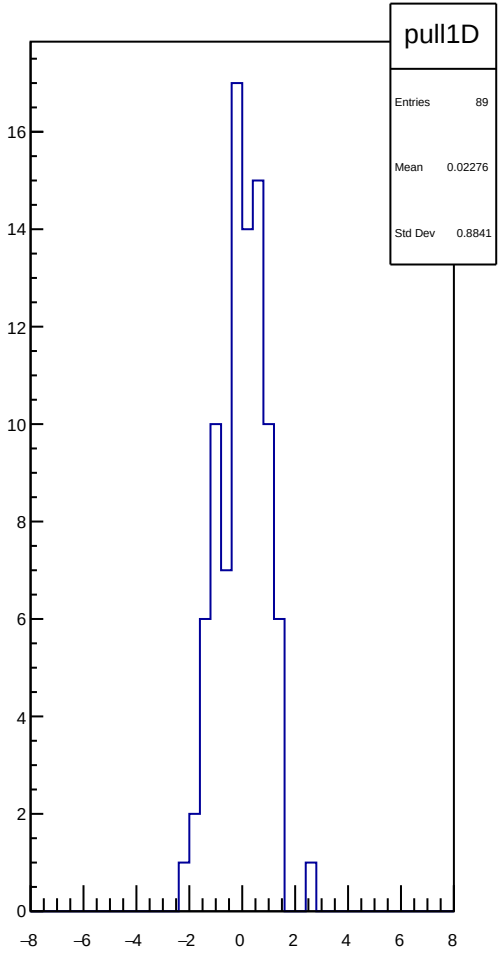

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 8992 / 88
p0 8428 ± 6.424
10500
10000
9500
9000
8500
8000
7500
7000

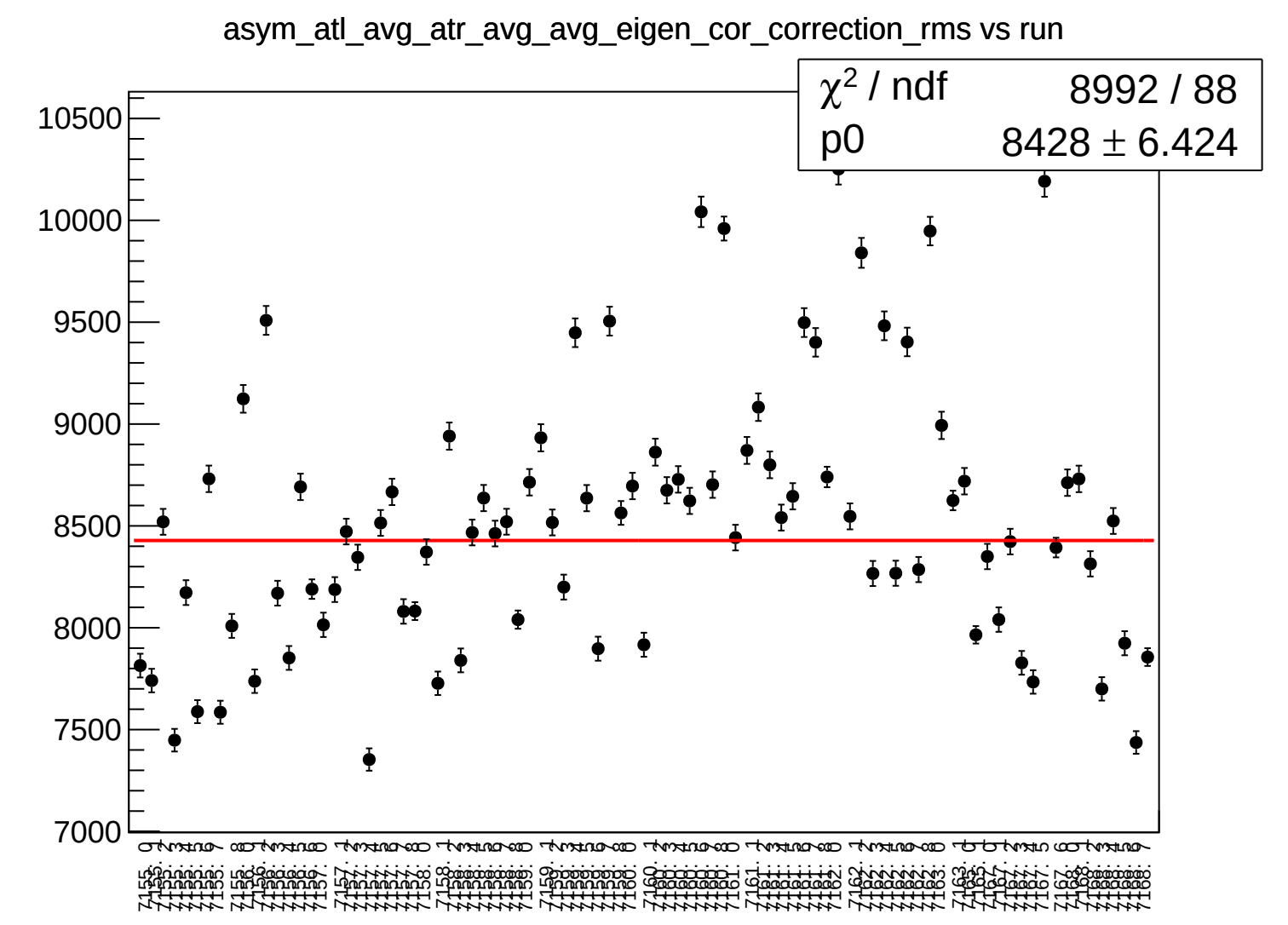

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 95.74 / 88
p0 −2563 ± 1378
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −20.99
Std Dev 38.54
2
1
0
−1
−2

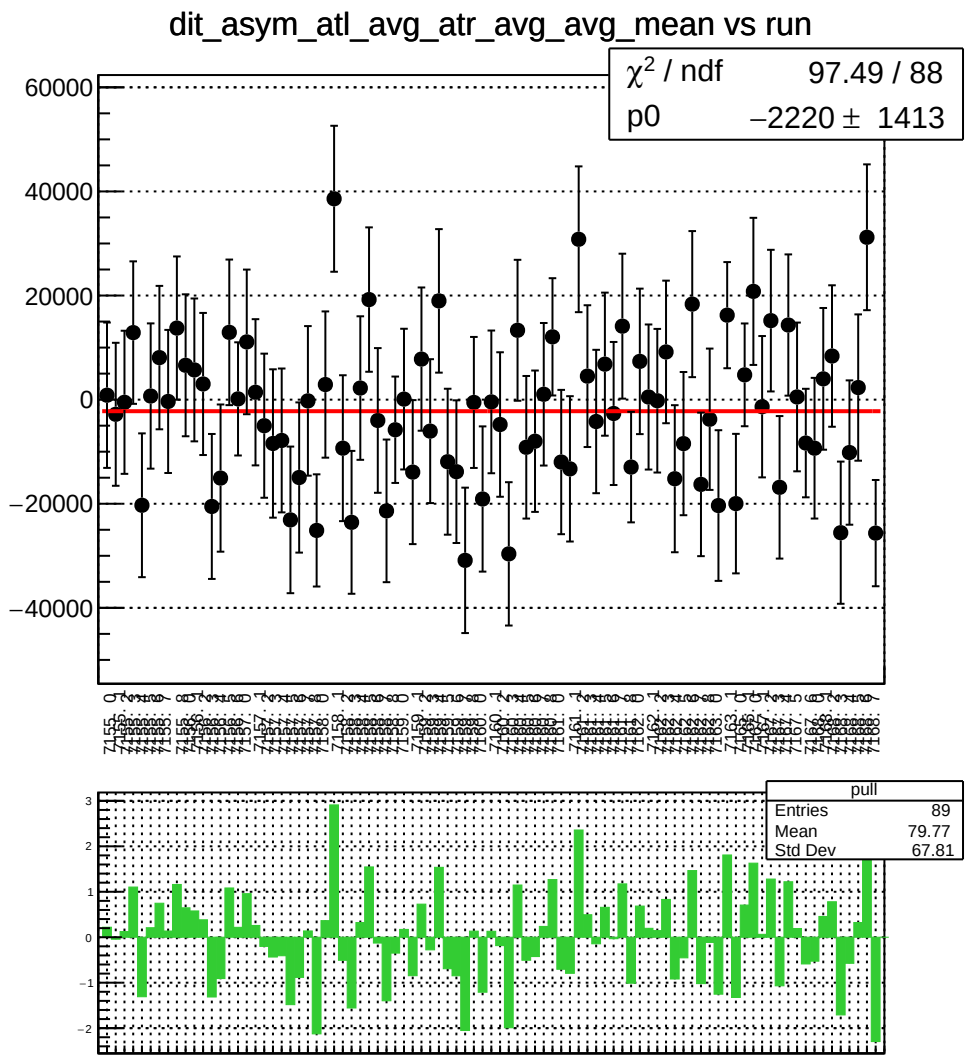

pull1D
Entries 89
Mean 0.006456
Std Dev 1.037
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

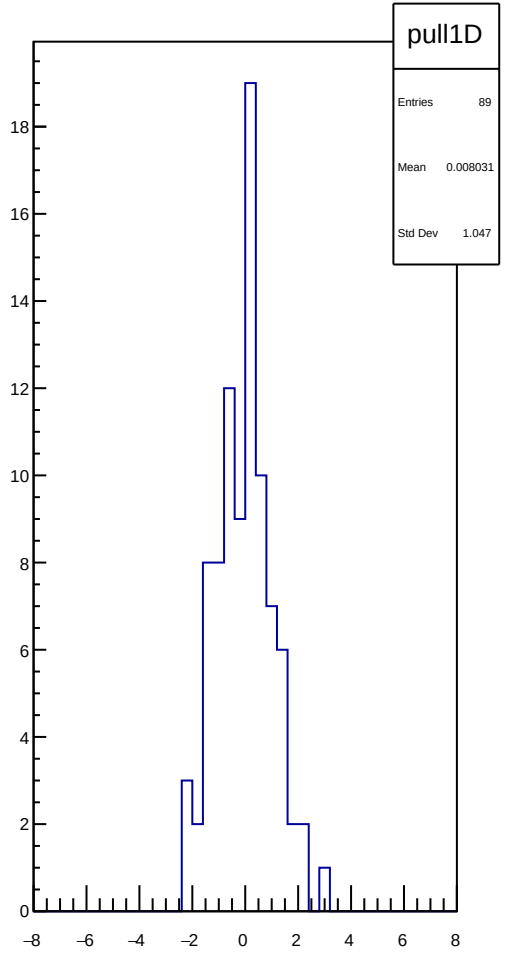

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 236.5 / 88
p0 1281 ± 0.9742
1340
1320
1300
1280
1260
1240

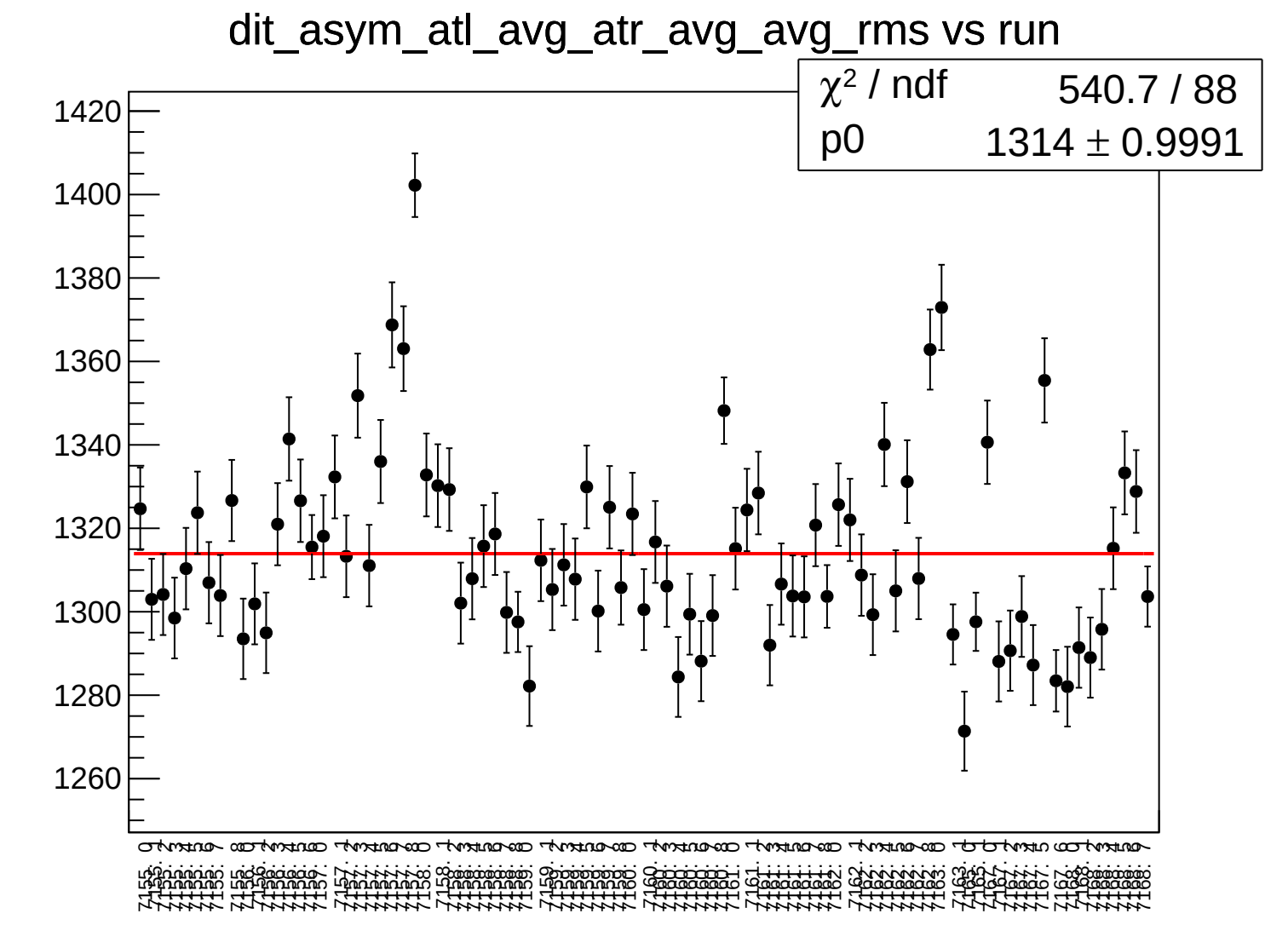

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1496 ± 9085
pull
Entries 89
Mean −15.39
Std Dev 0

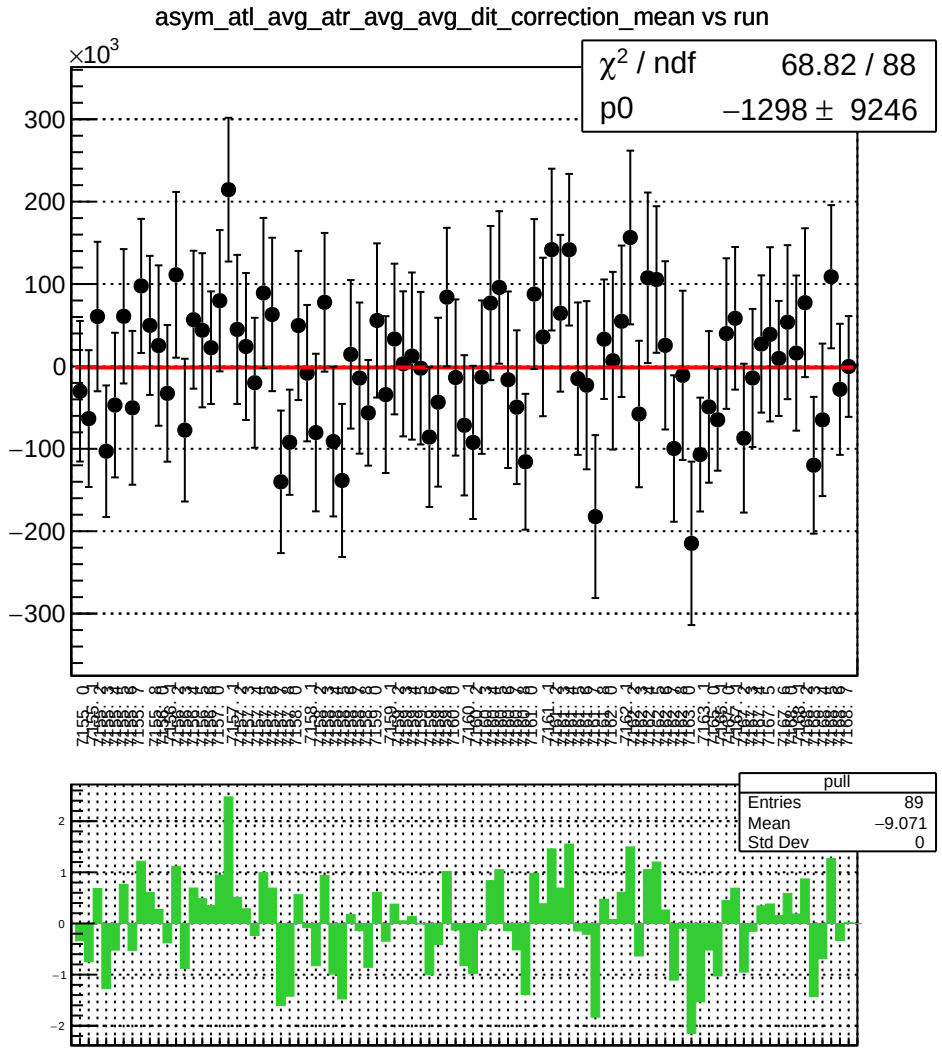

pull1D
Entries 89
Mean 0.02276
Std Dev 0.8841

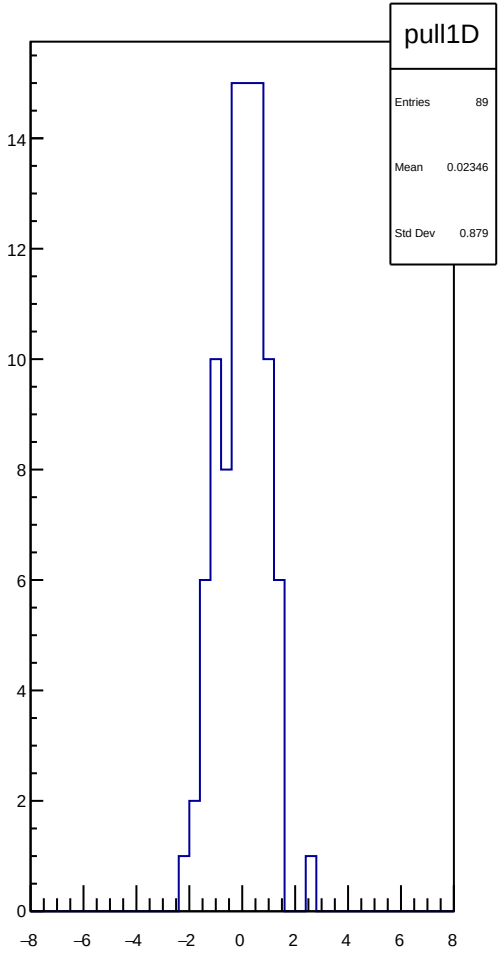

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8992 / 88
p0 8428 ± 6.424
10500
10000
9500
9000
8500
8000
7500
7000

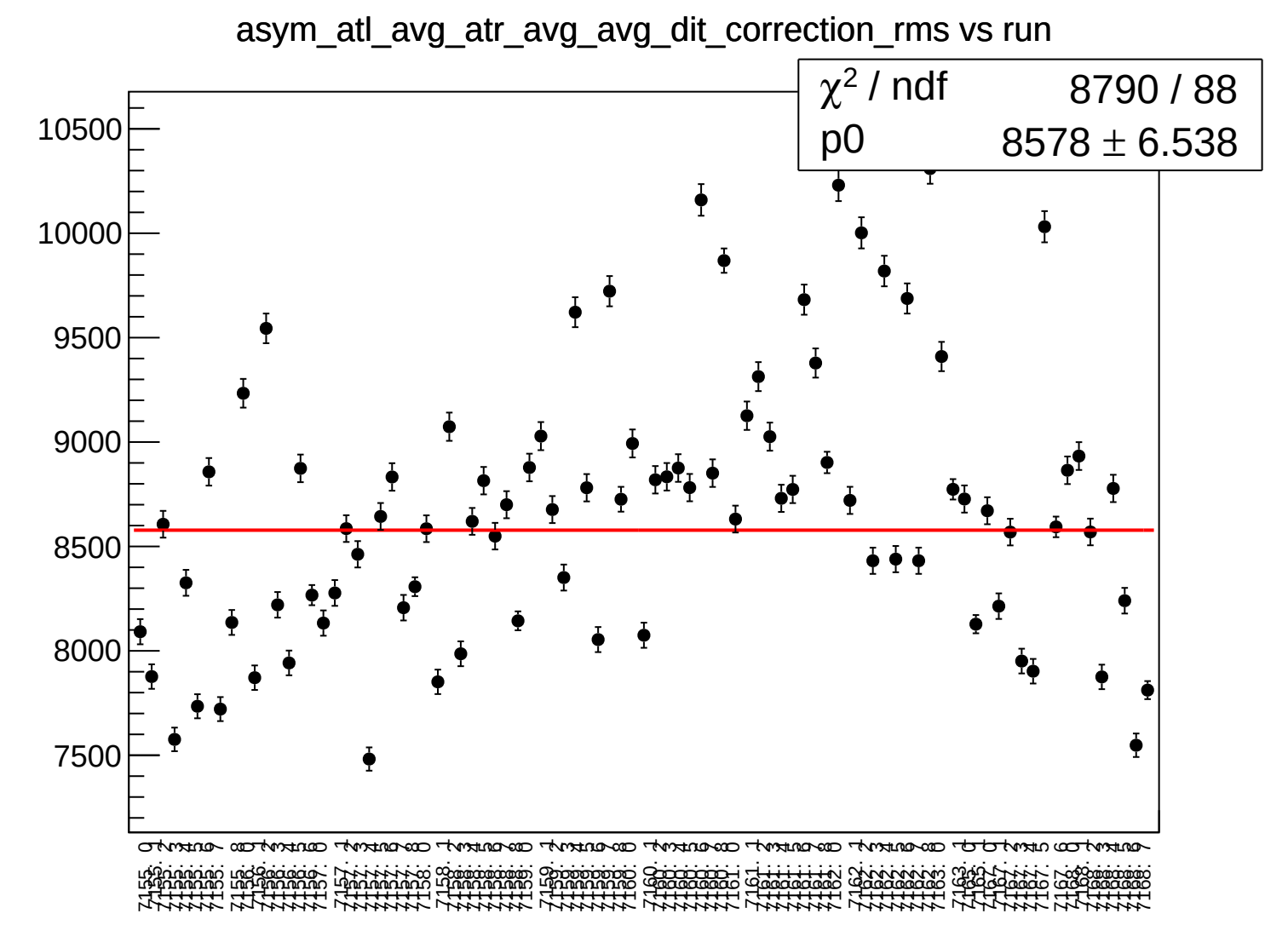

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.49 / 88
p0 −2220 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 79.77
Std Dev 67.81
3
2
1
0
−1
−2

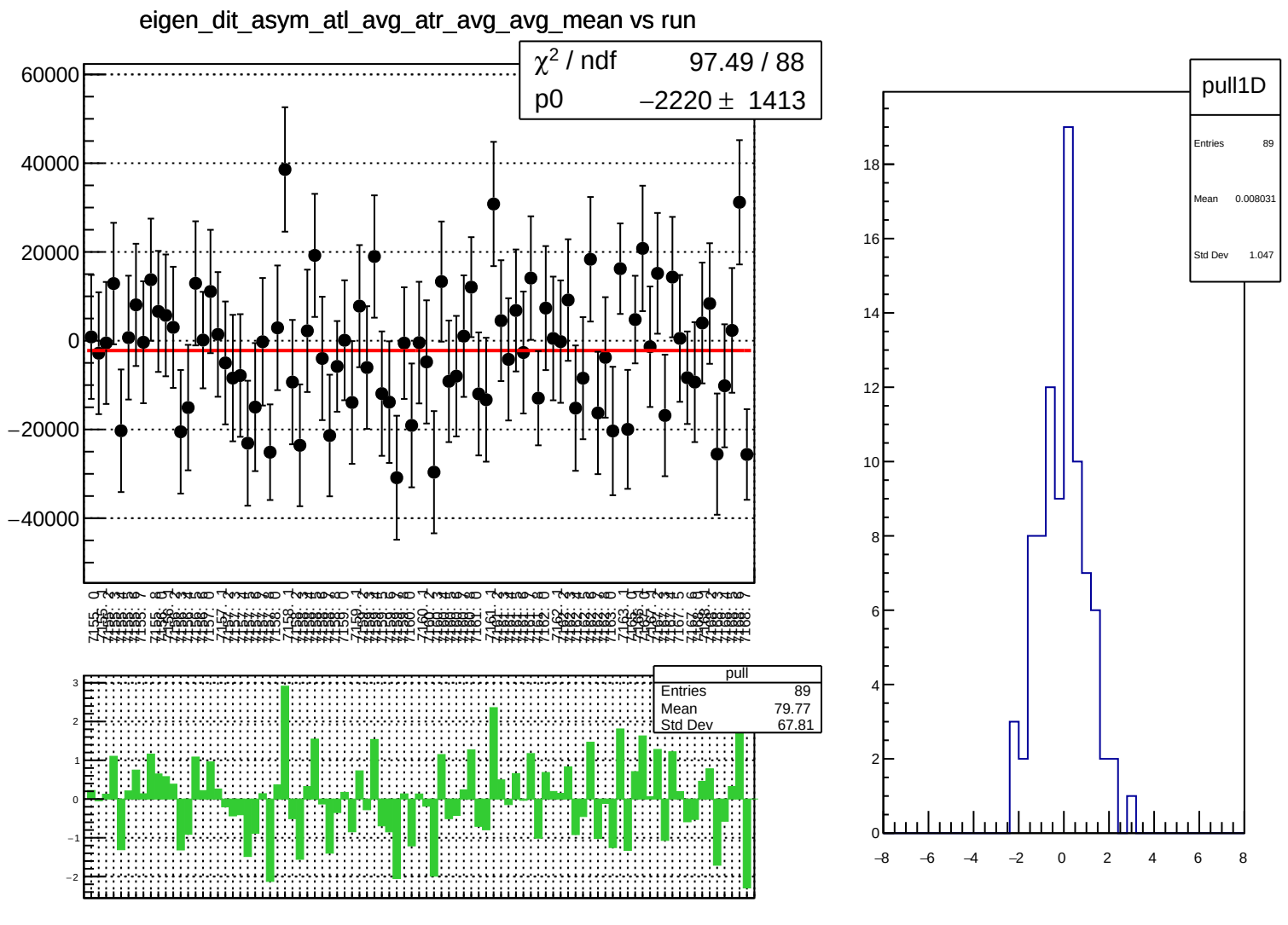

pull1D
Entries 89
Mean 0.008031
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

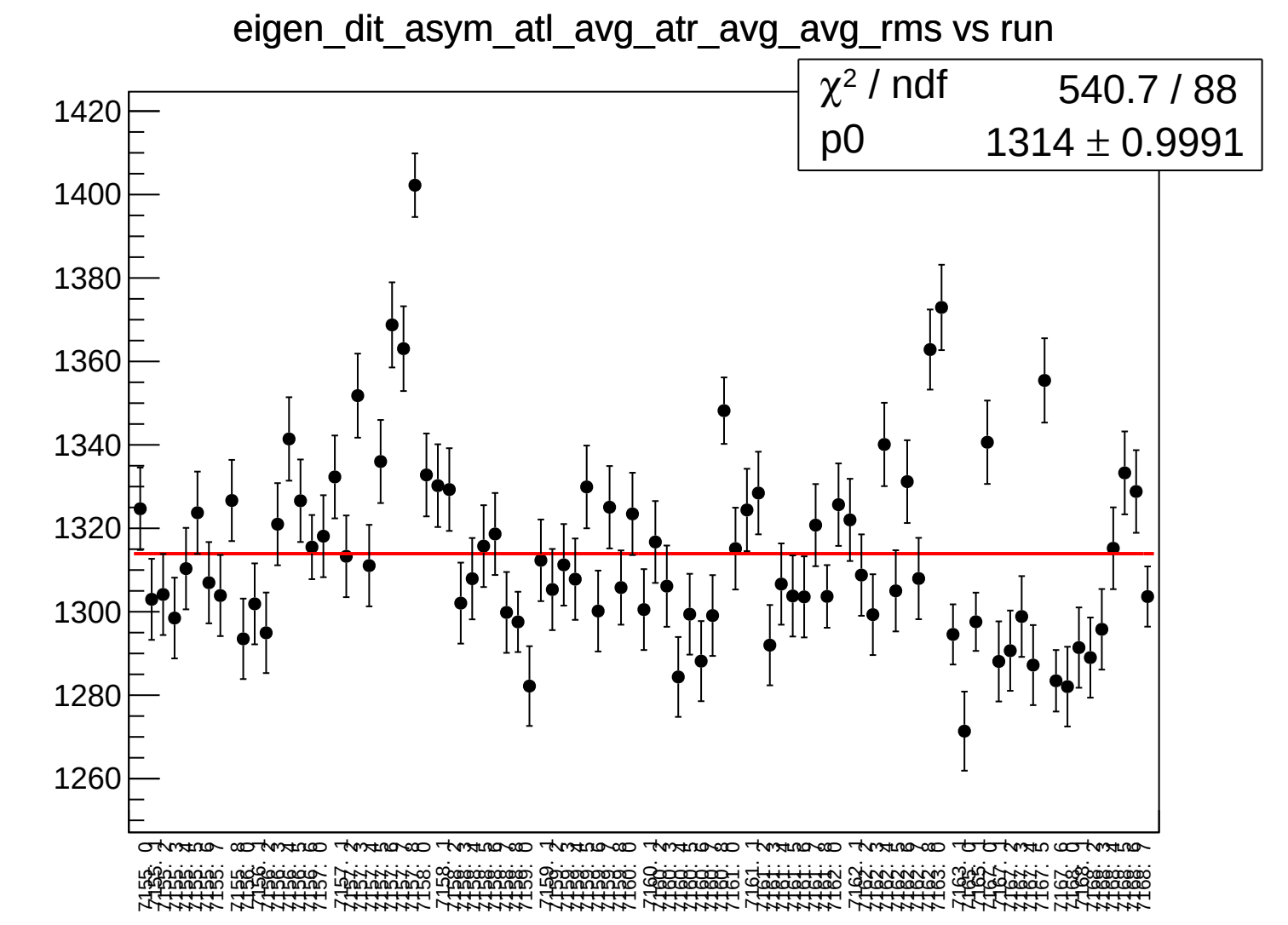

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 540.7 / 88
p0 1314 ± 0.9991
1420
1400
1380
1360
1340
1320
1300
1280
1260

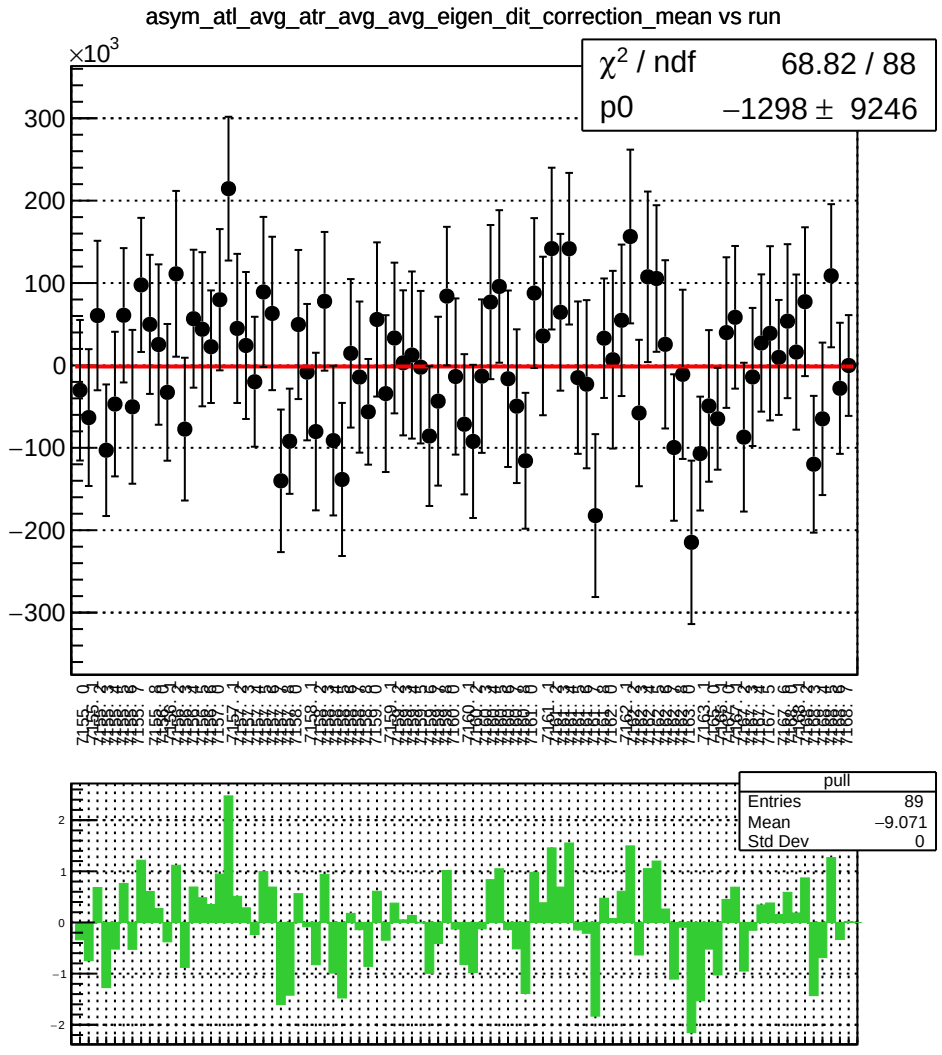

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 −1298 ± 9246
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.071
Std Dev 0
2
1
0
−1
−2

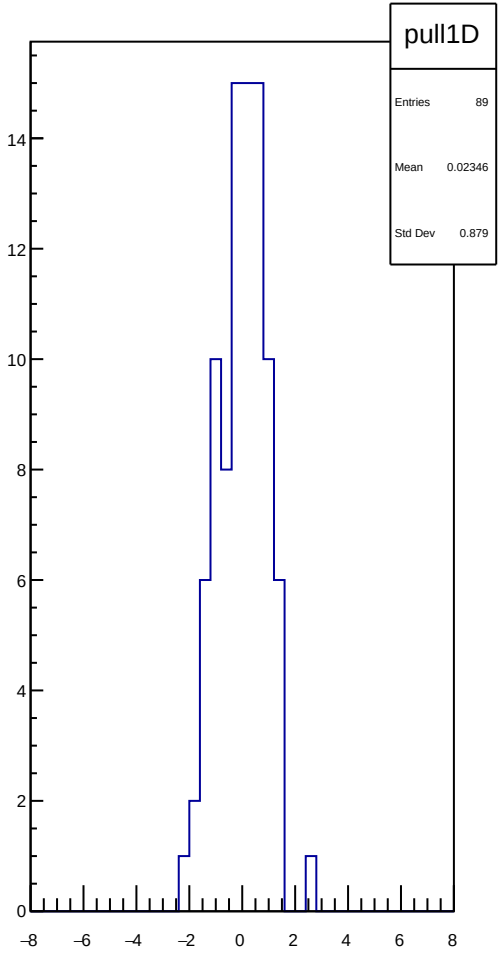

pull1D
Entries 89
Mean 0.02346
Std Dev 0.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

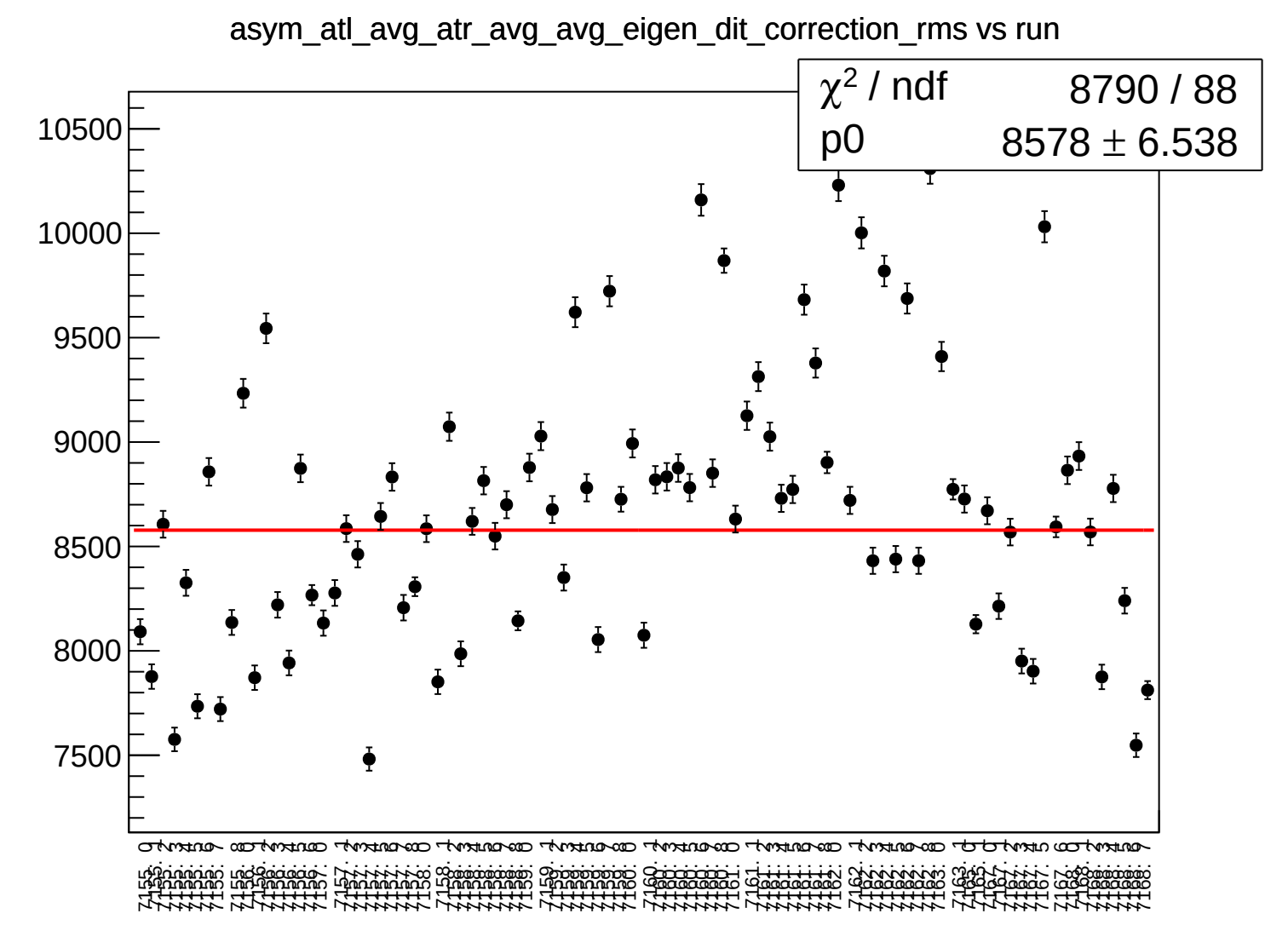

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 8790 / 88
p0 8578 ± 6.538
10500
10000
9500
9000
8500
8000
7500

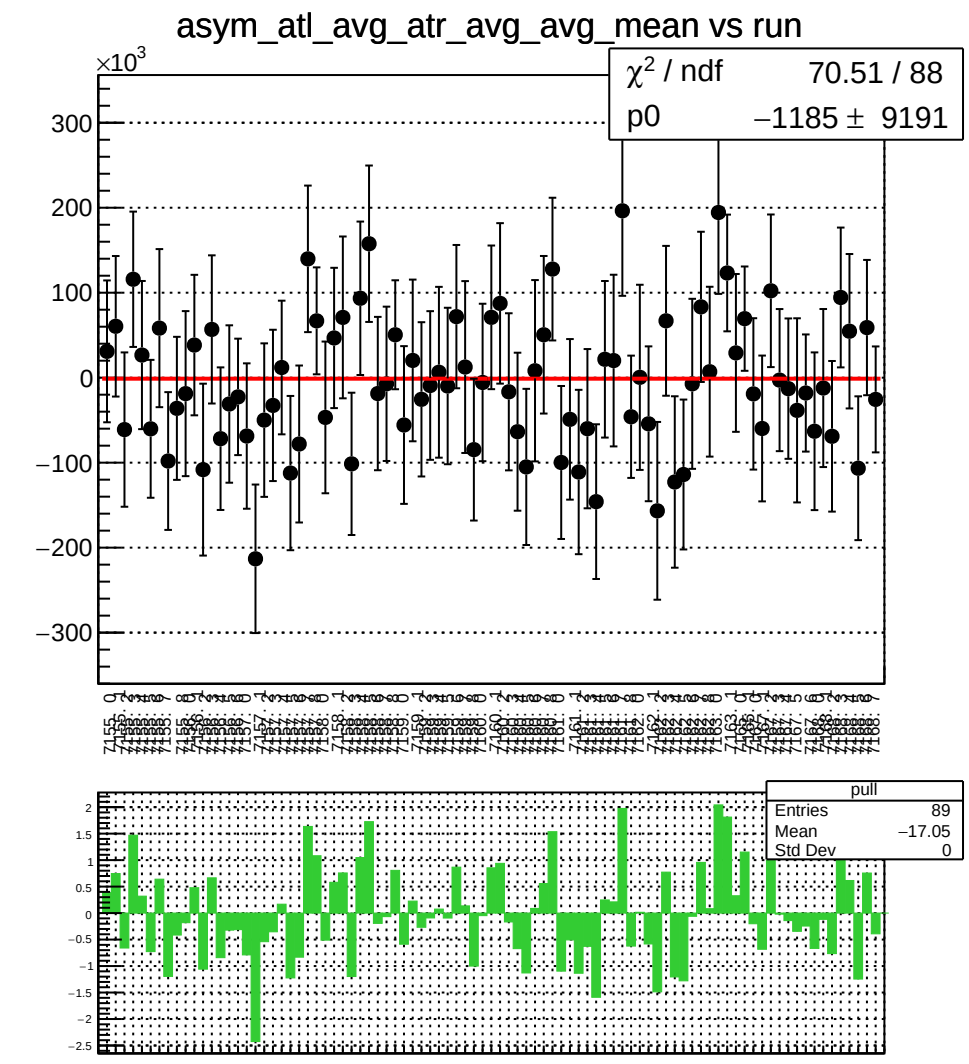

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 97.49 / 88
p0 −2220 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 79.77
Std Dev 67.81
pull1D
Entries 89
Mean 0.008031
Std Dev 1.047

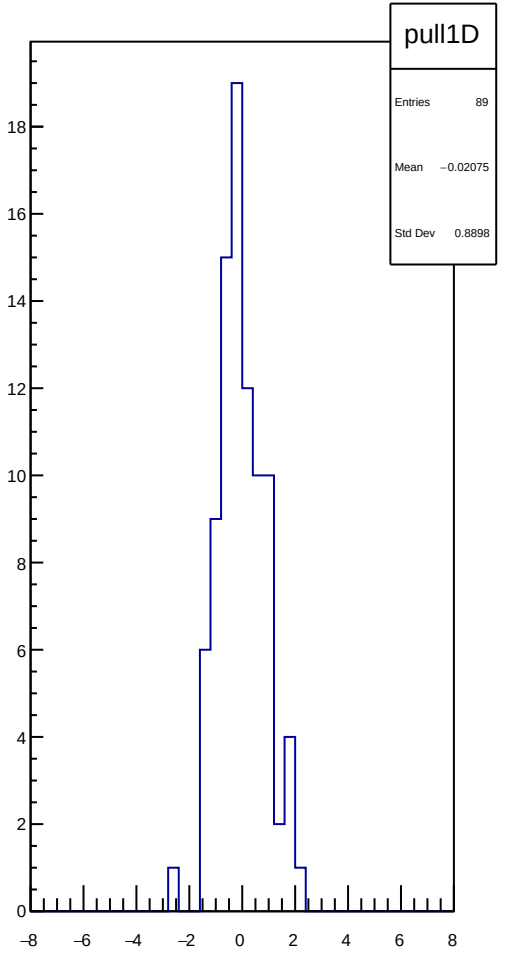

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 540.7 / 88
p0 1314 ± 0.9991
1420
1400
1380
1360
1340
1320
1300
1280
1260

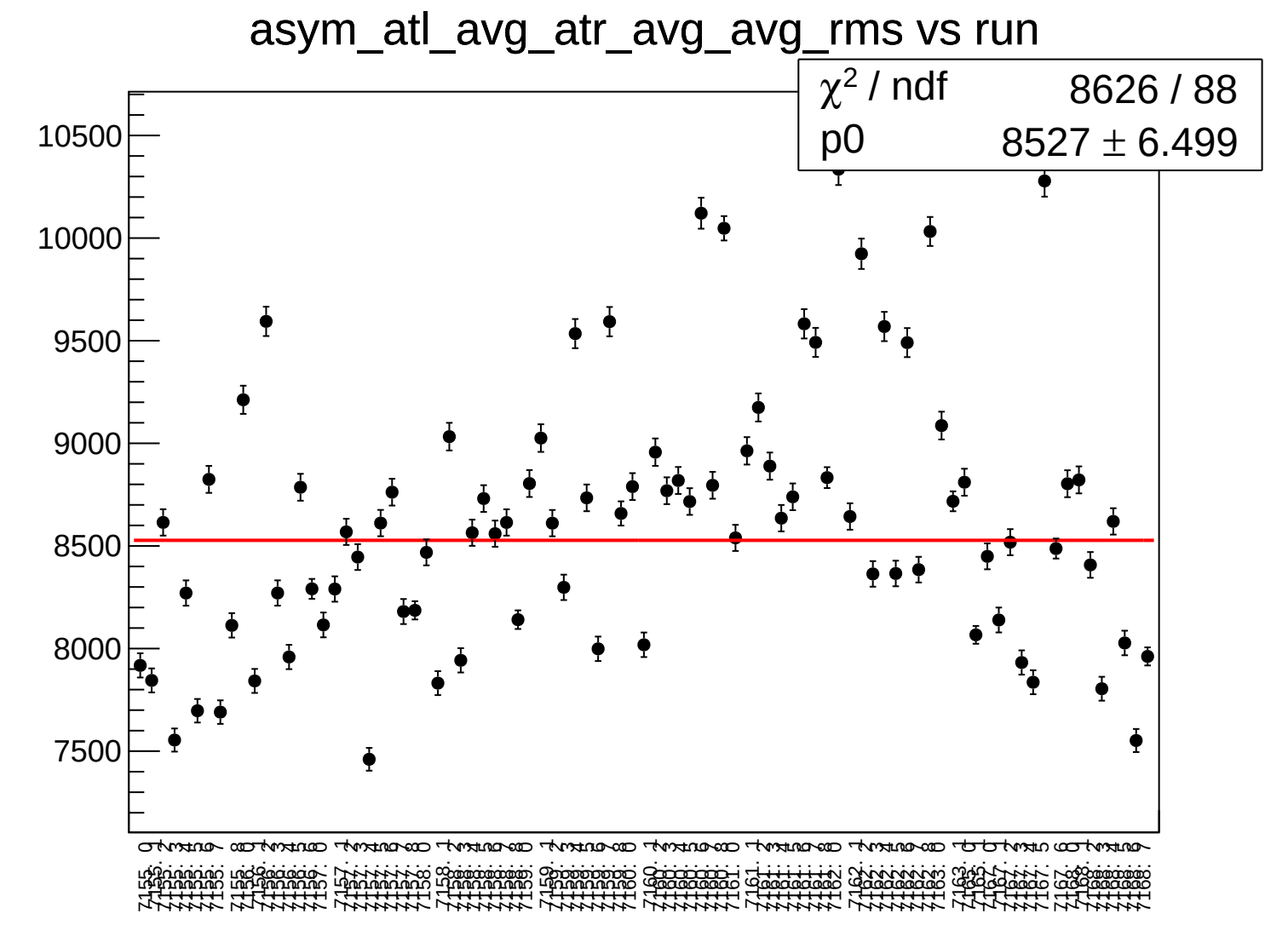

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 −1298 ± 9246
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.071
Std Dev 0
2
1
0
−1
−2

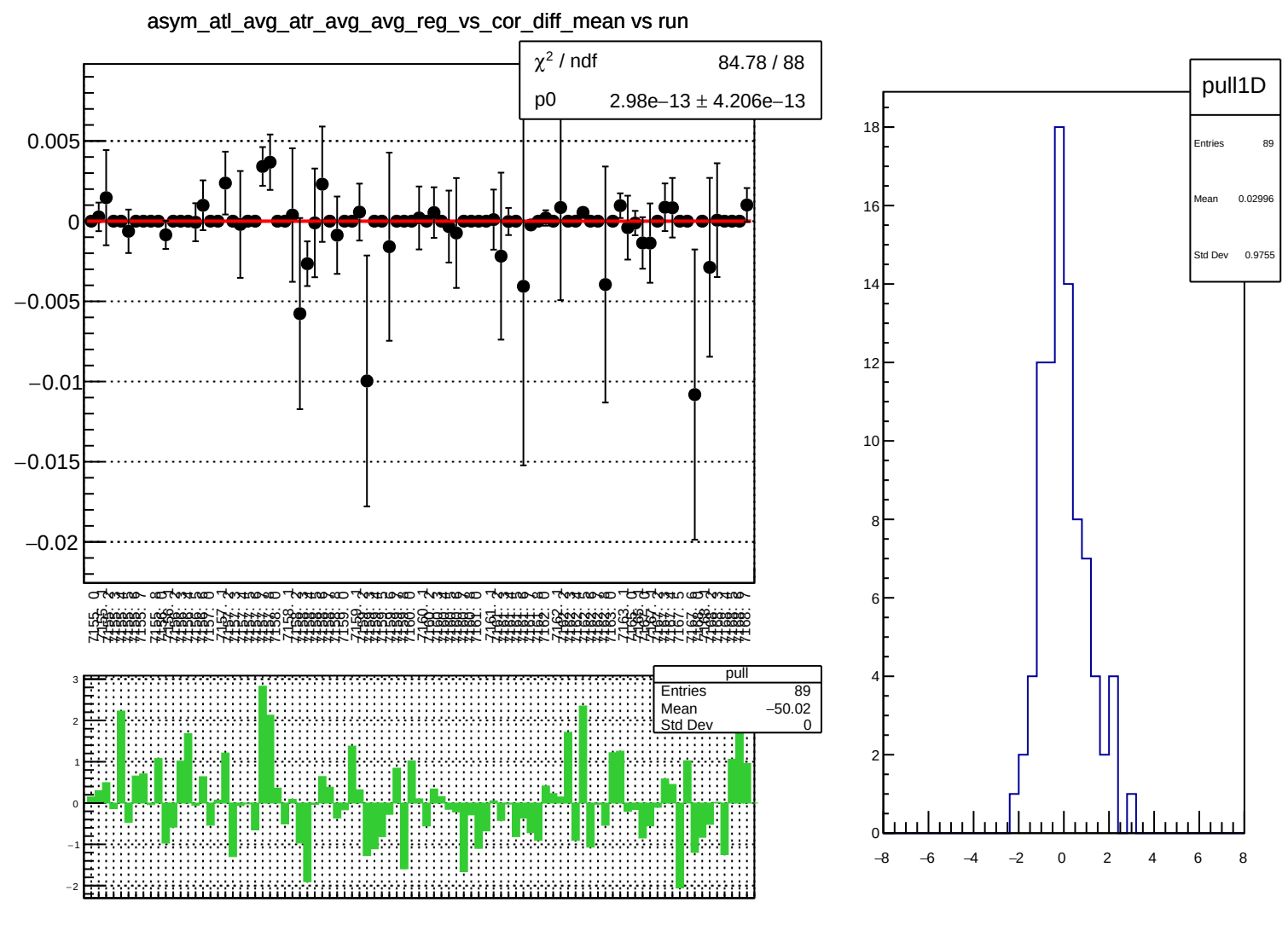

pull1D
Entries 89
Mean 0.02346
Std Dev 0.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

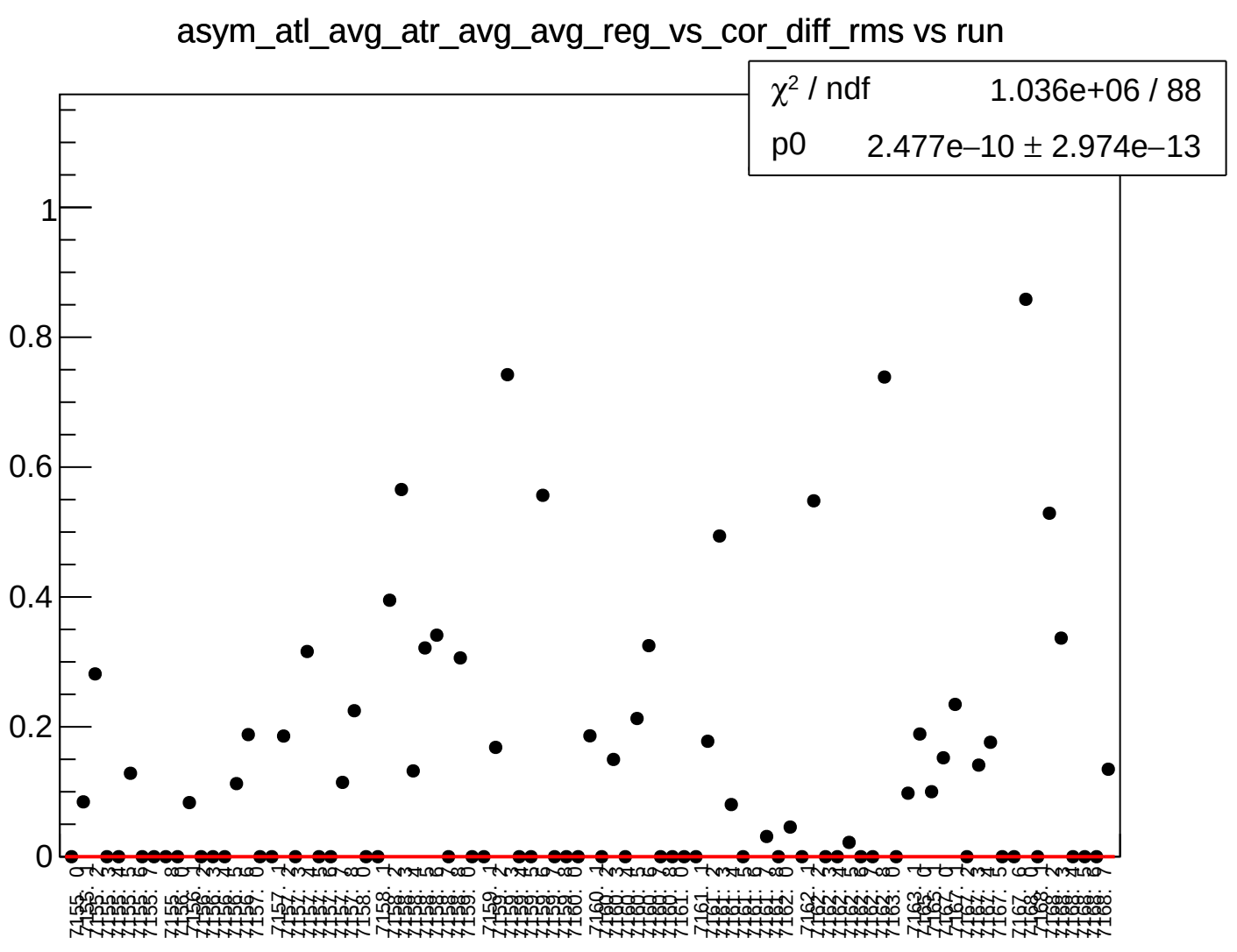

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8790 / 88
p0 8578 ± 6.538
10500
10000
9500
9000
8500
8000
7500

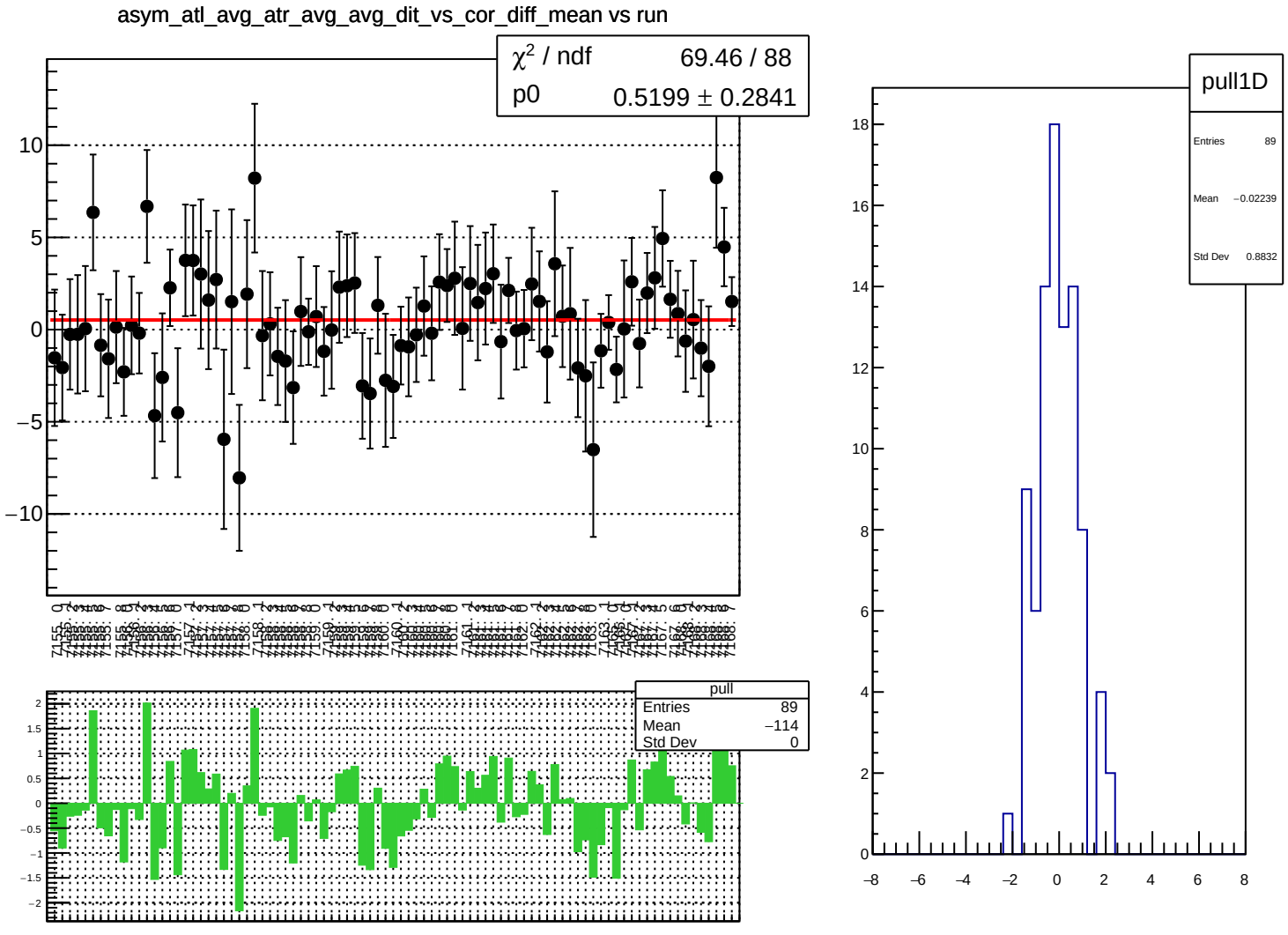

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 70.51 / 88
p0 −1185 ± 9191
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −17.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

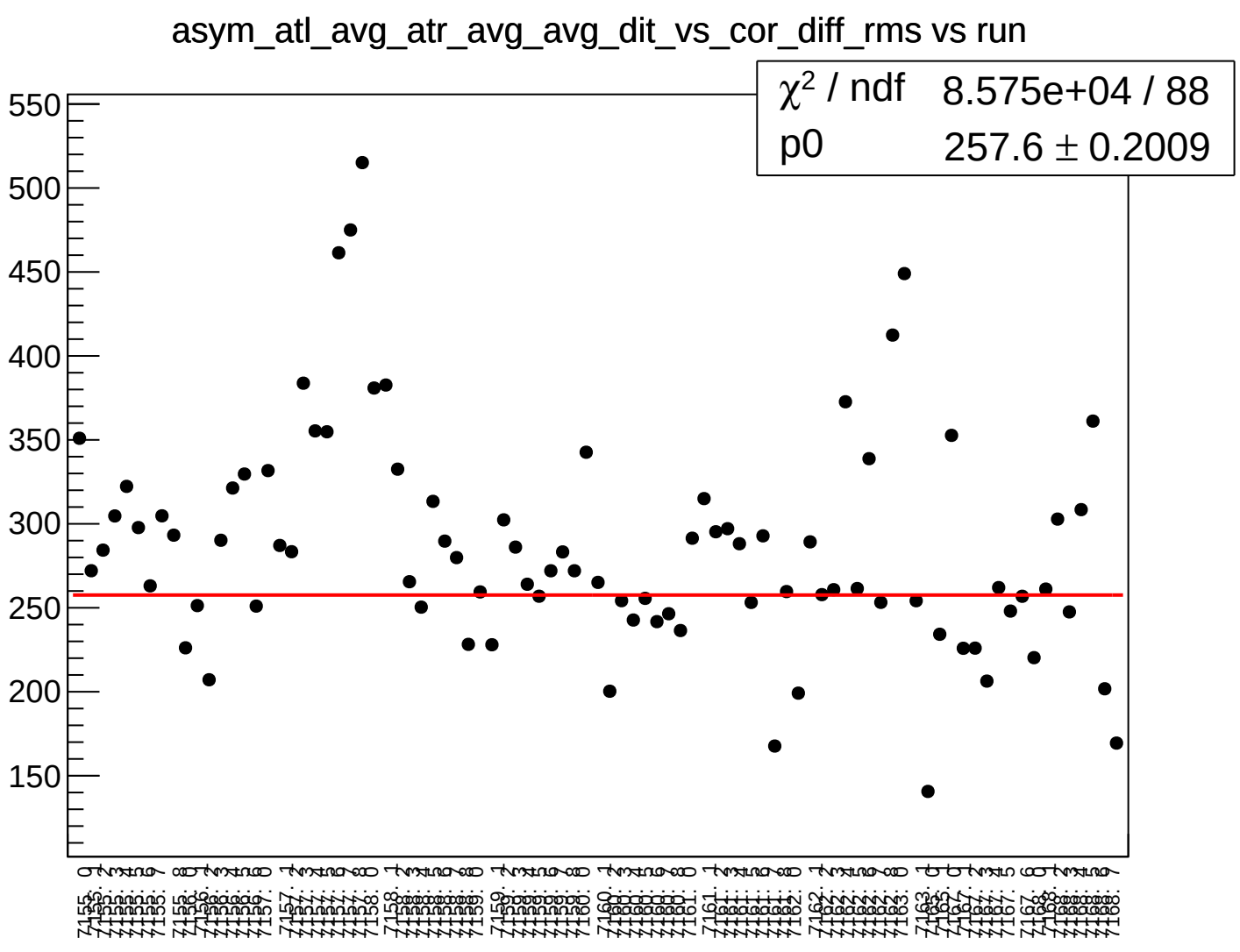

pull1D
Entries 89
Mean −0.02075
Std Dev 0.8898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

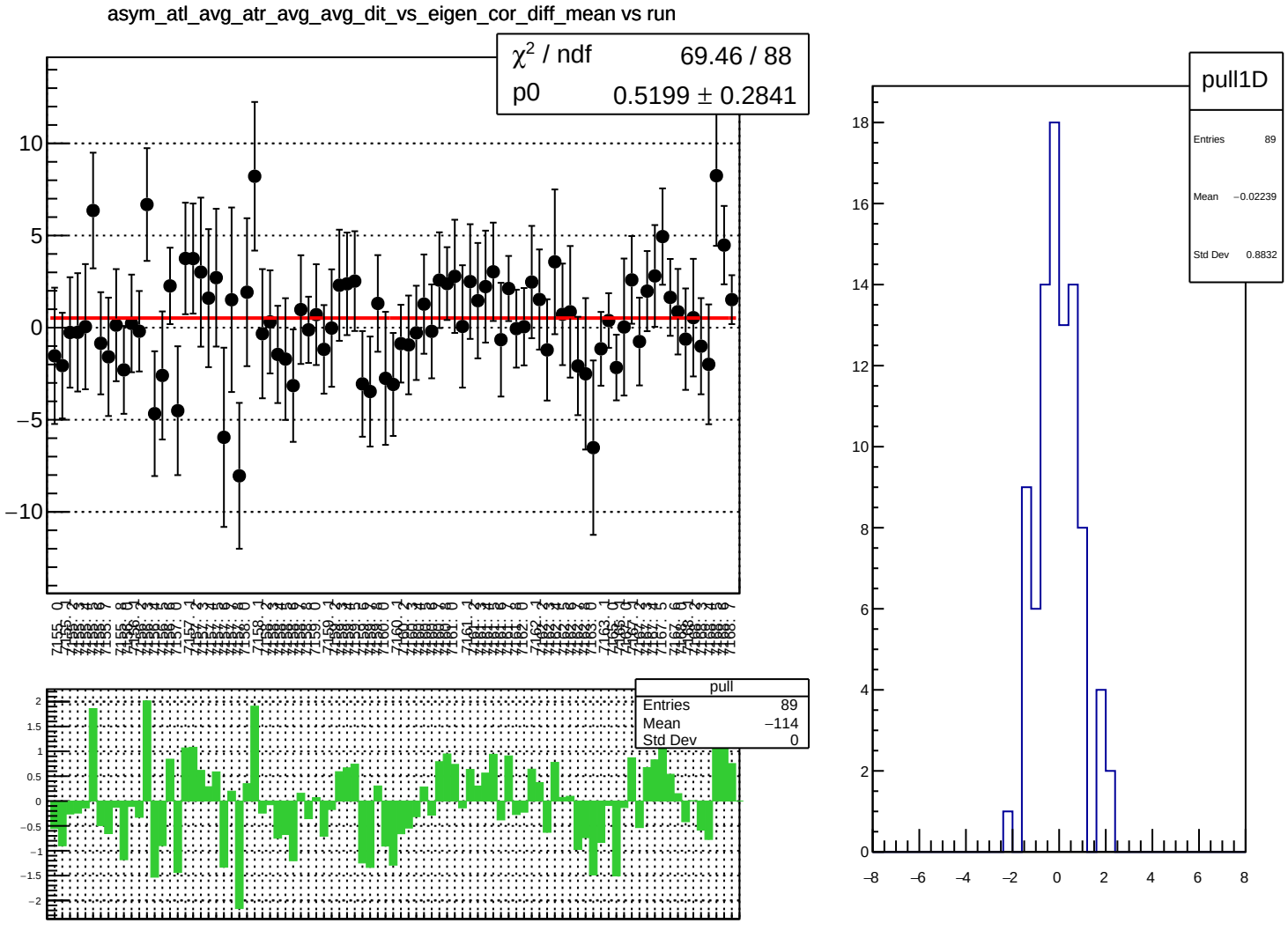

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 8626 / 88
p0 8527 ± 6.499
10500
10000
9500
9000
8500
8000
7500

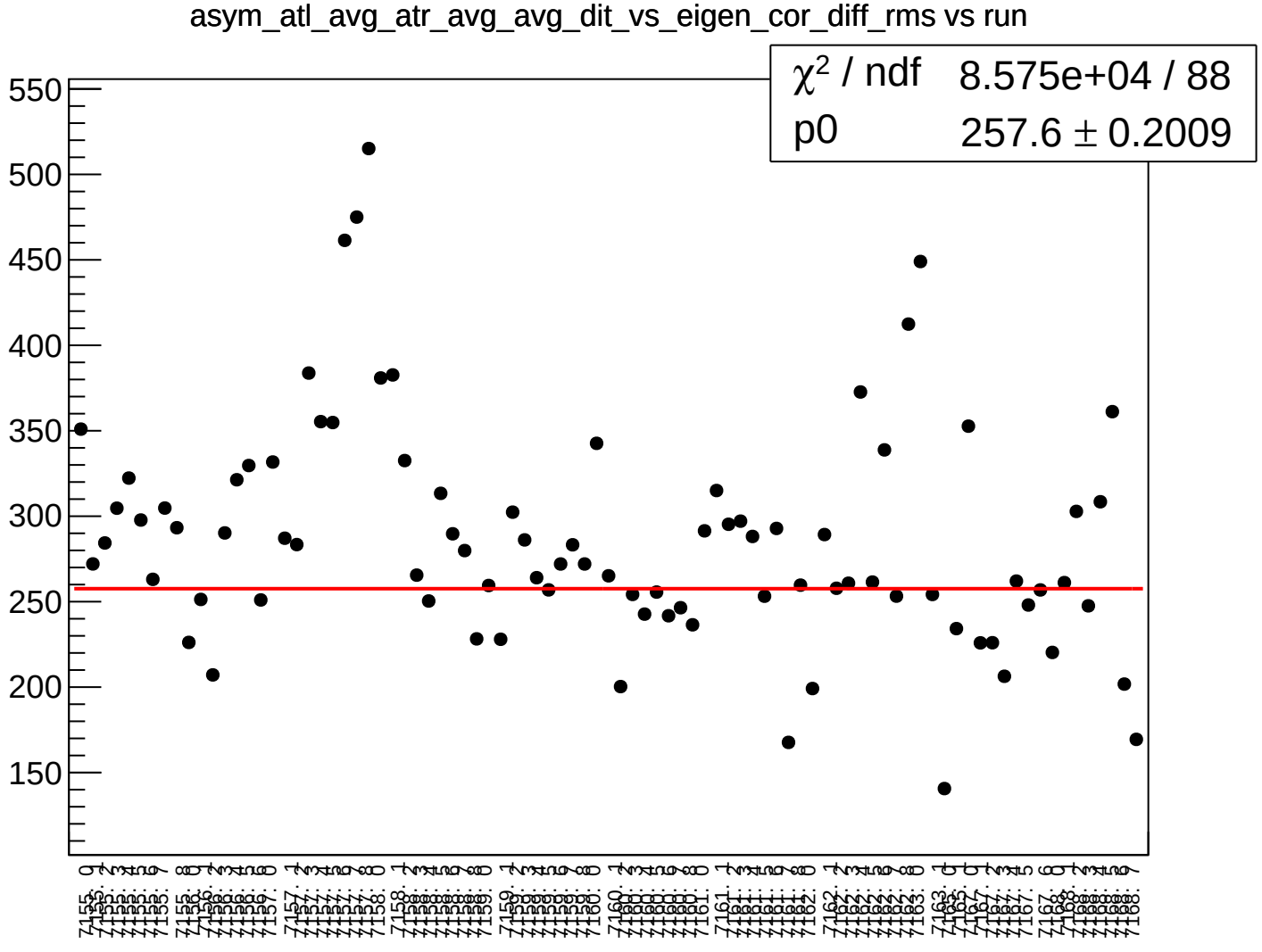

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.78 / 88
p0 2.98e−13 ± 4.206e−13
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean −50.02
Std Dev 0
pull1D
Entries 89
Mean 0.02996
Std Dev 0.9755

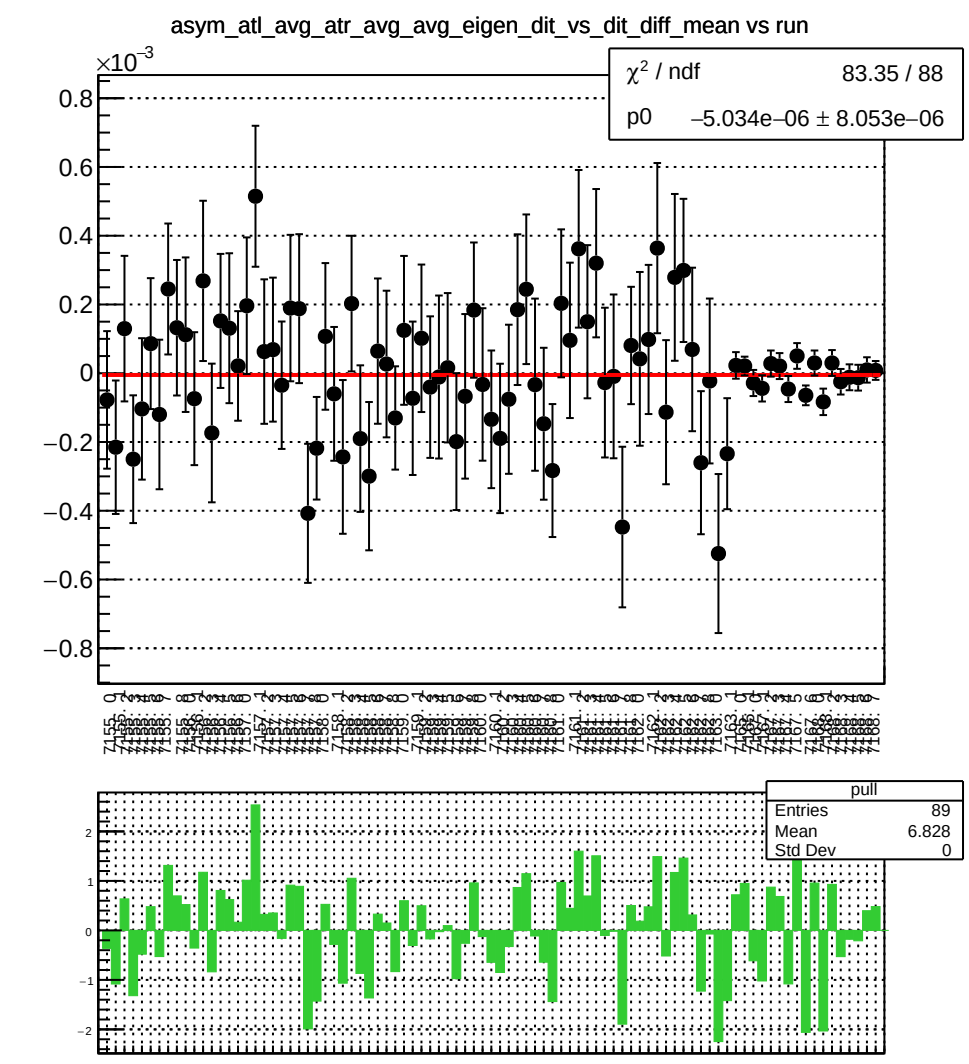

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.036e+06 / 88
p0 2.477e−10 ± 2.974e−13
1
0.8
0.6
0.4
0.2
0

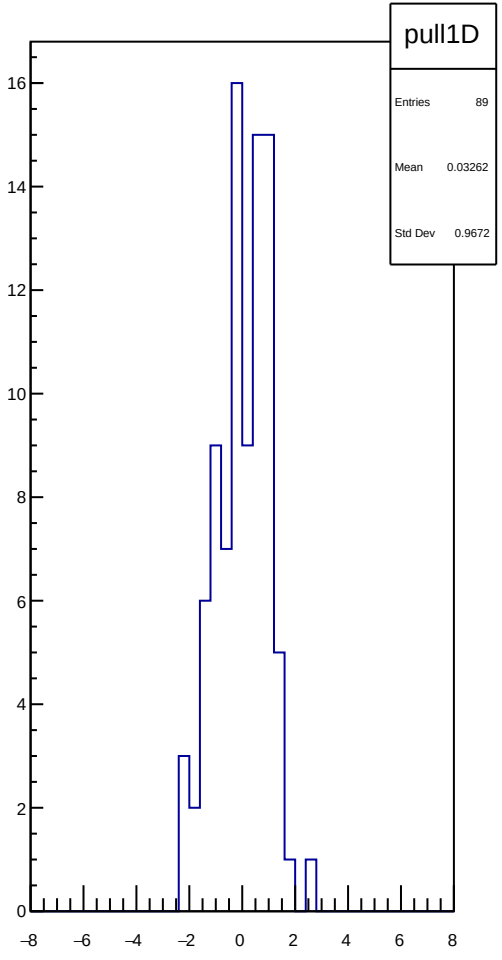

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.46 / 88
p0 0.5199 ± 0.2841
pull
Entries 89
Mean −114
Std Dev 0
pull1D
Entries 89
Mean −0.02239
Std Dev 0.8832

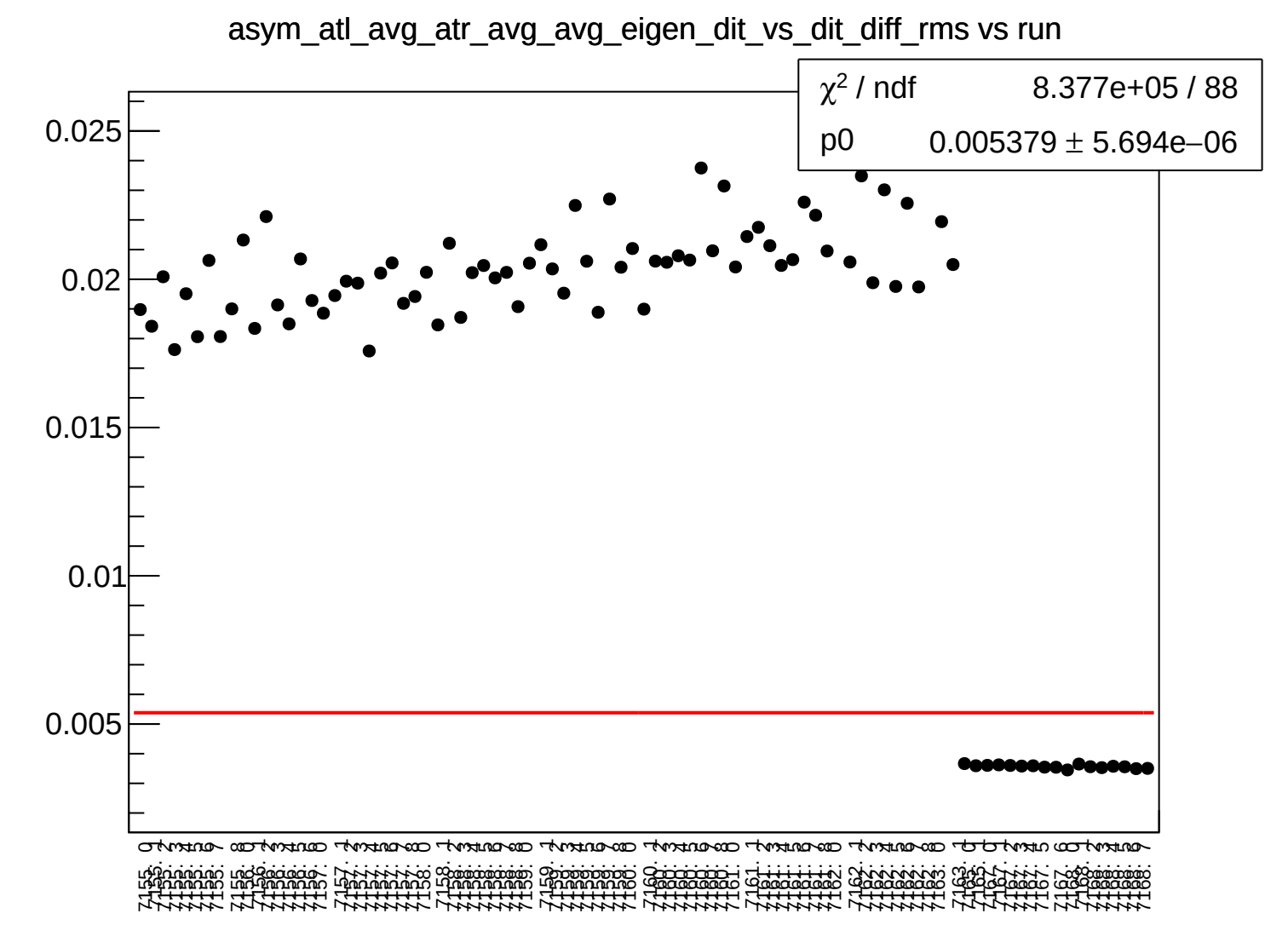

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.575e+04 / 88
p0 257.6 ± 0.2009
550
500
450
400
350
300
250
200
150

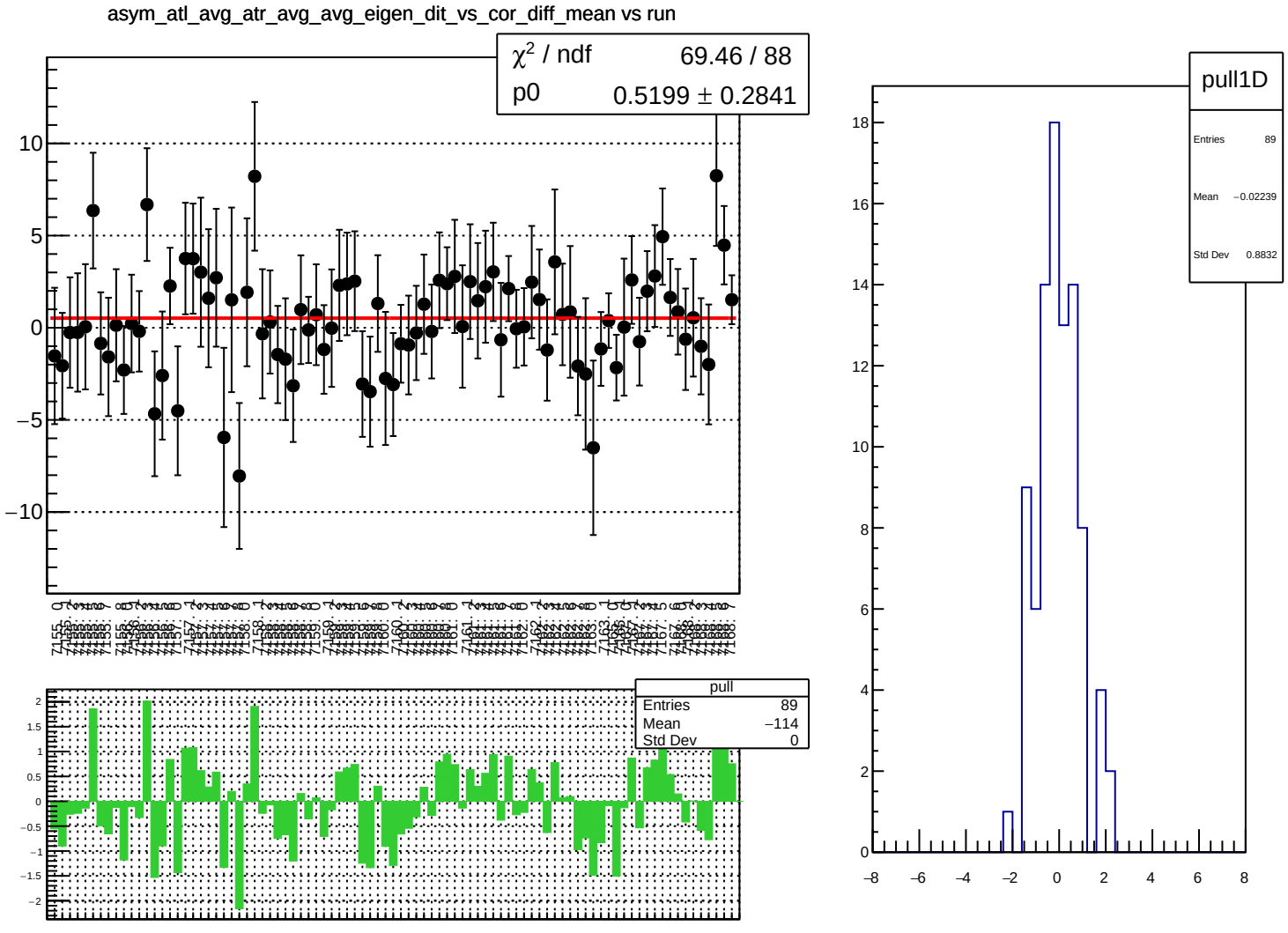

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.46 / 88
p0 0.5199 ± 0.2841
pull
Entries 89
Mean −114
Std Dev 0
pull1D
Entries 89
Mean −0.02239
Std Dev 0.8832

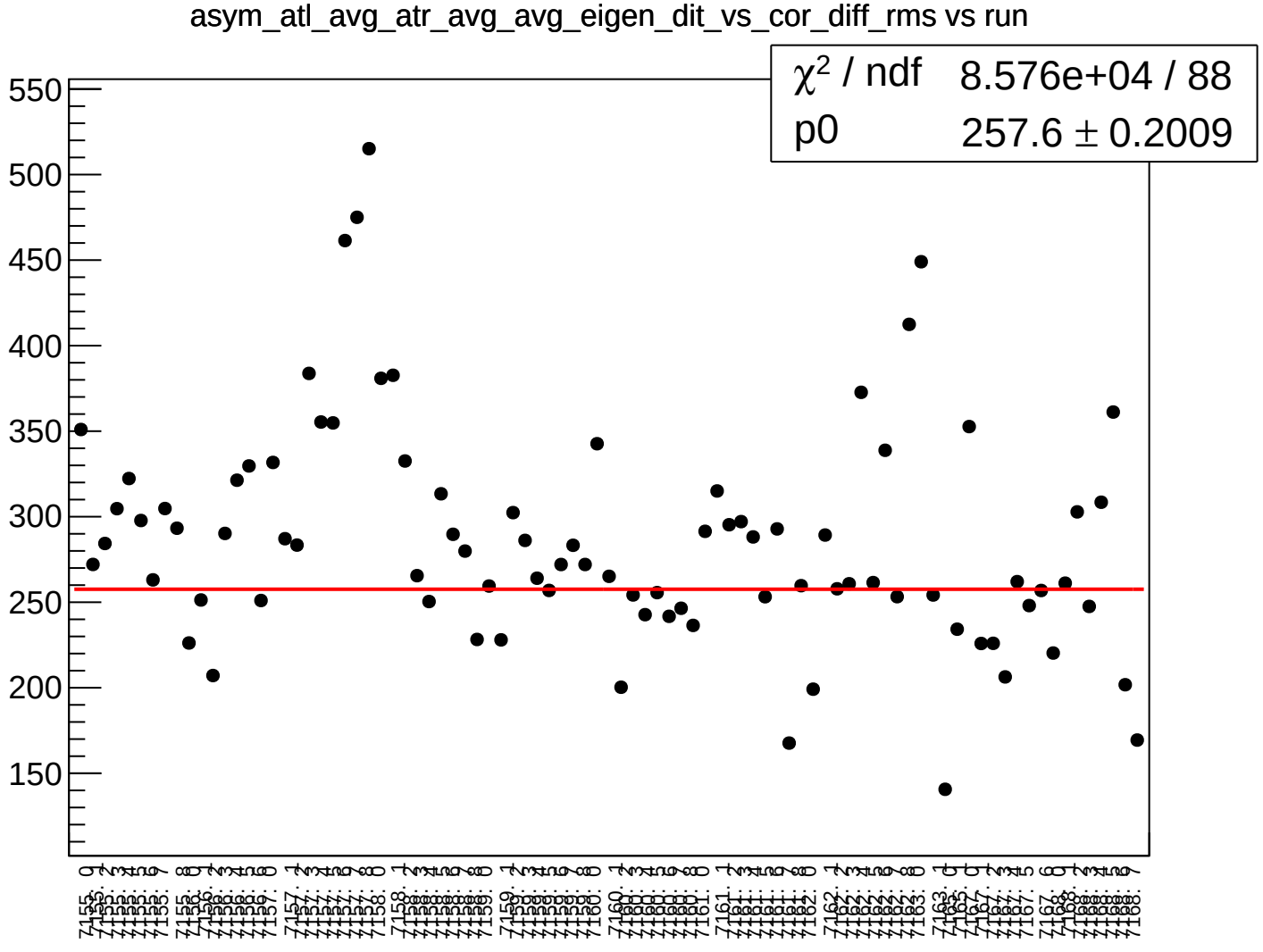

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.575e+04 / 88
p0 257.6 ± 0.2009
550
500
450
400
350
300
250
200
150

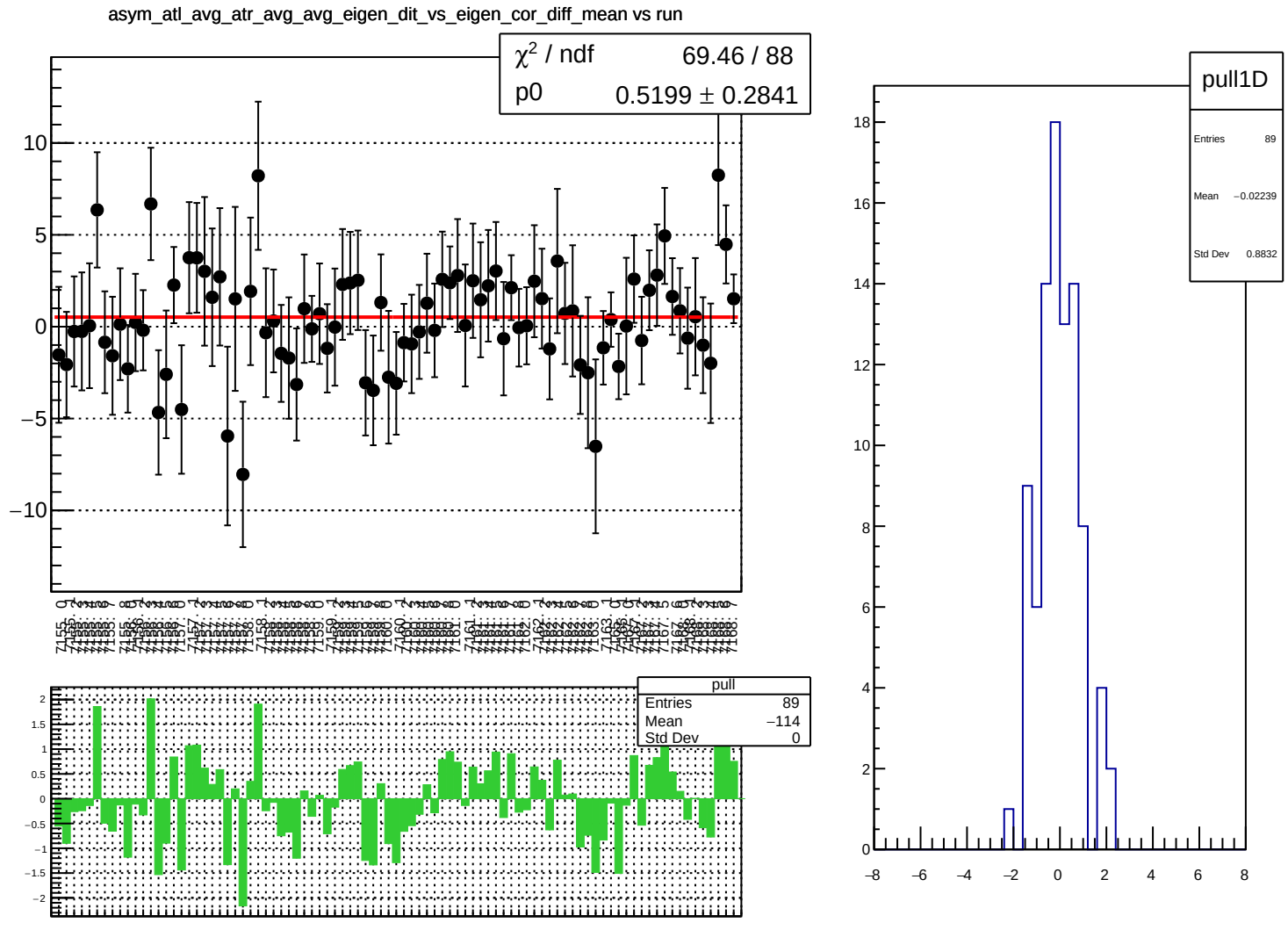

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.35 / 88
p0 −5.034e−06 ± 8.053e−06
pull
Entries 89
Mean 6.828
Std Dev 0

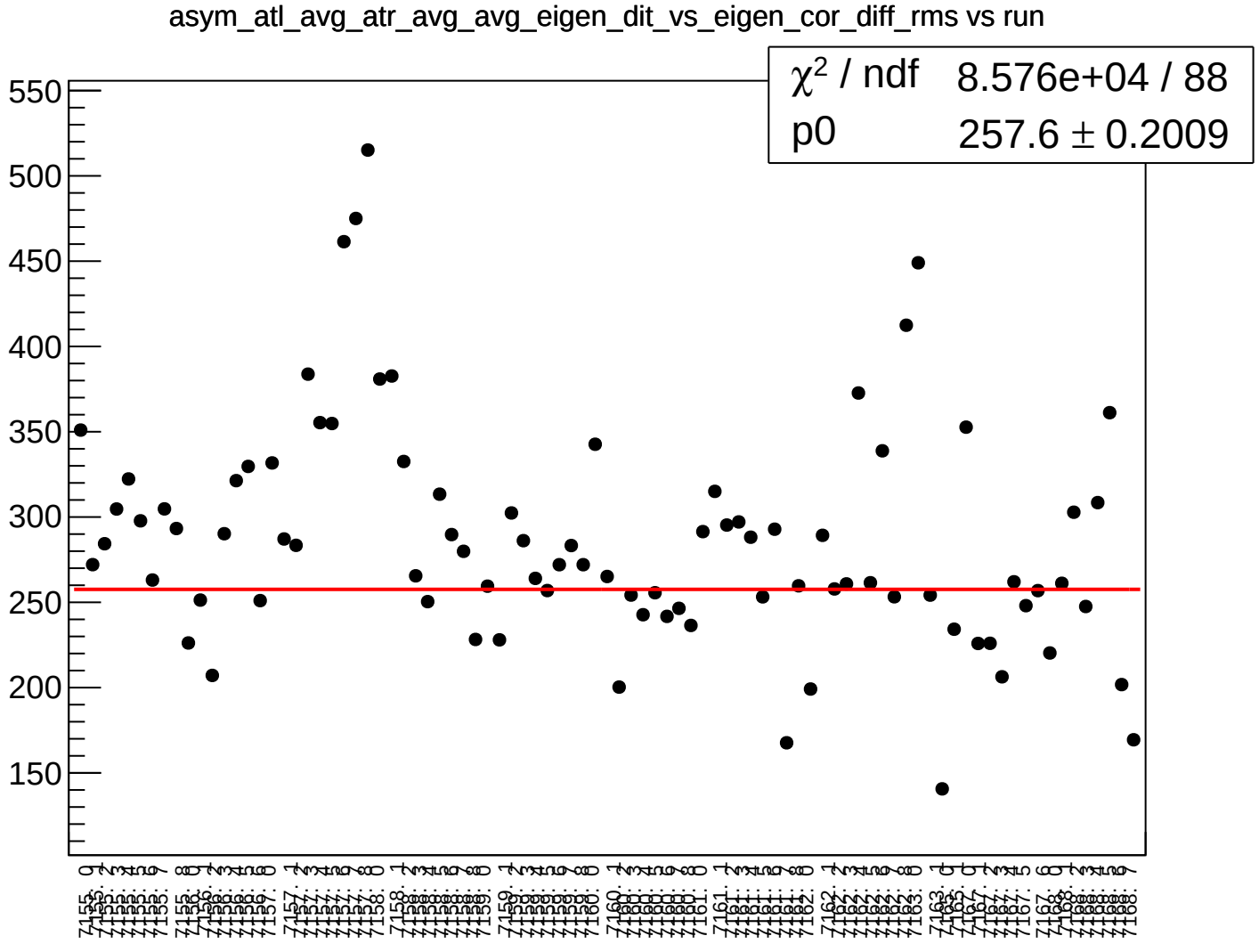

pull1D
Entries 89
Mean 0.03262
Std Dev 0.9672

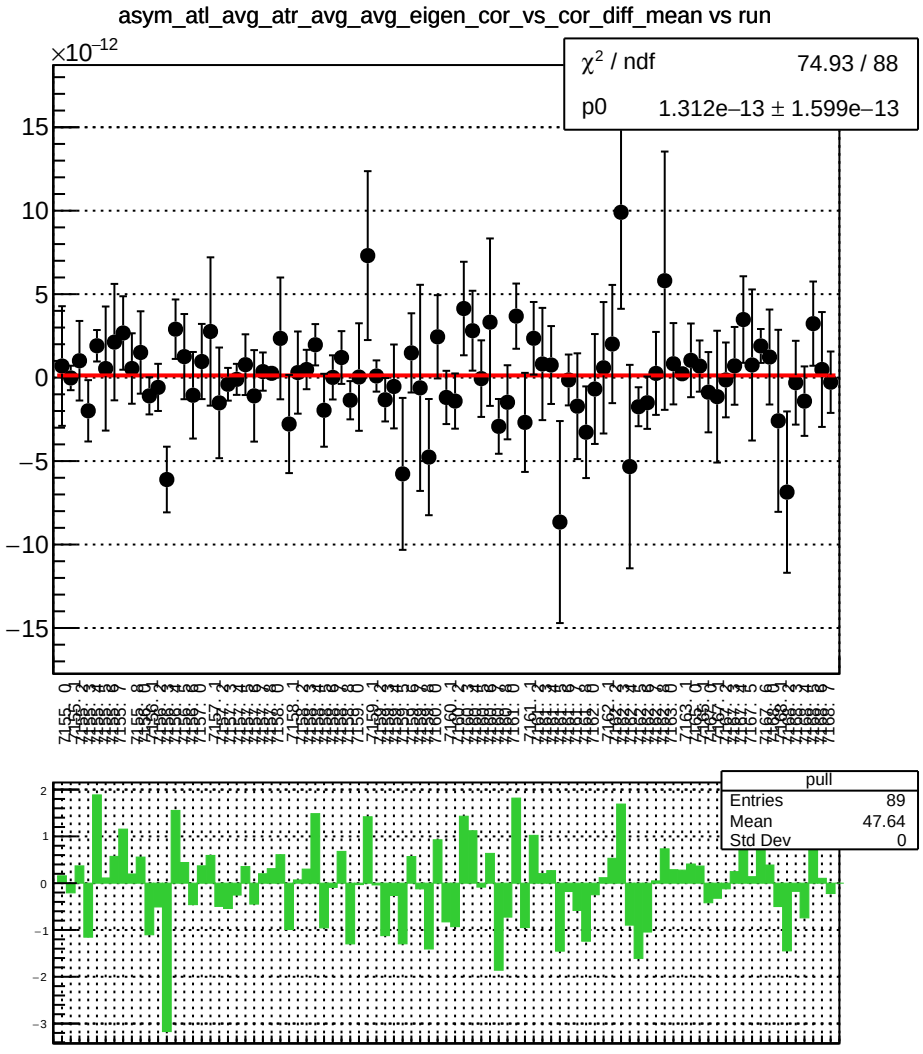

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.377e+05 / 88
p0 0.005379 ± 5.694e−06
0.025
0.02
0.015
0.01
0.005

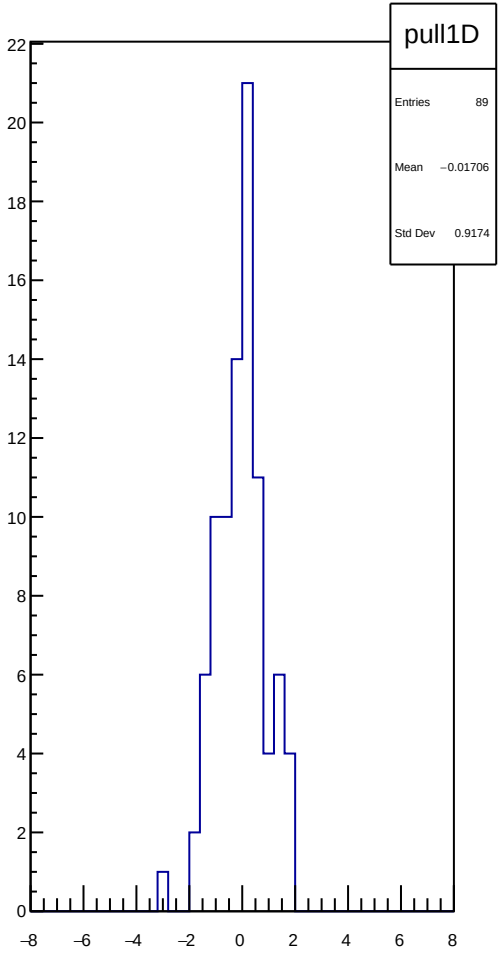

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.46 / 88
p0 0.5199 ± 0.2841
pull
Entries 89
Mean −114
Std Dev 0
pull1D
Entries 89
Mean −0.02239
Std Dev 0.8832

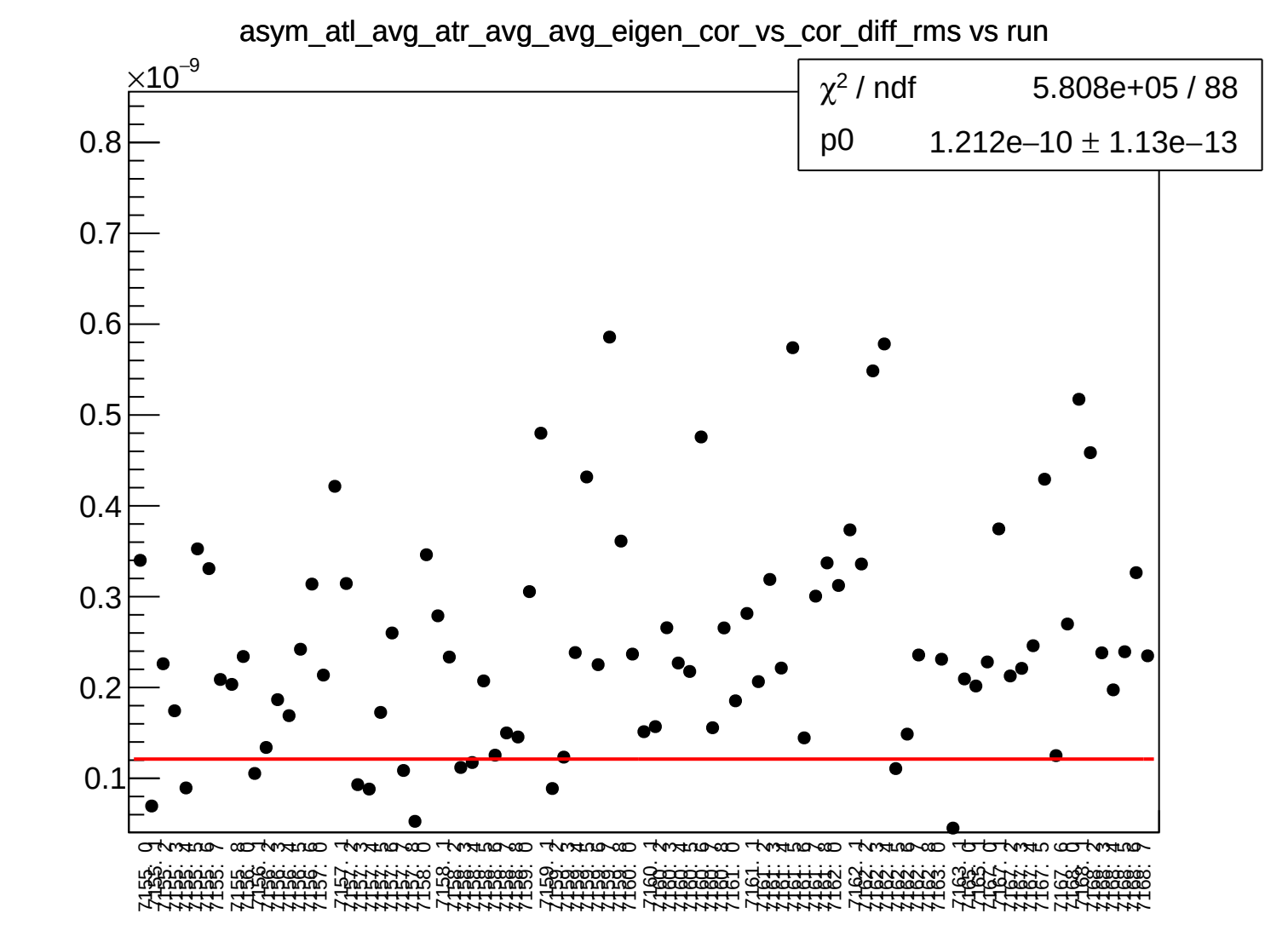

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 88
p0 257.6 ± 0.2009
550
500
450
400
350
300
250
200
150

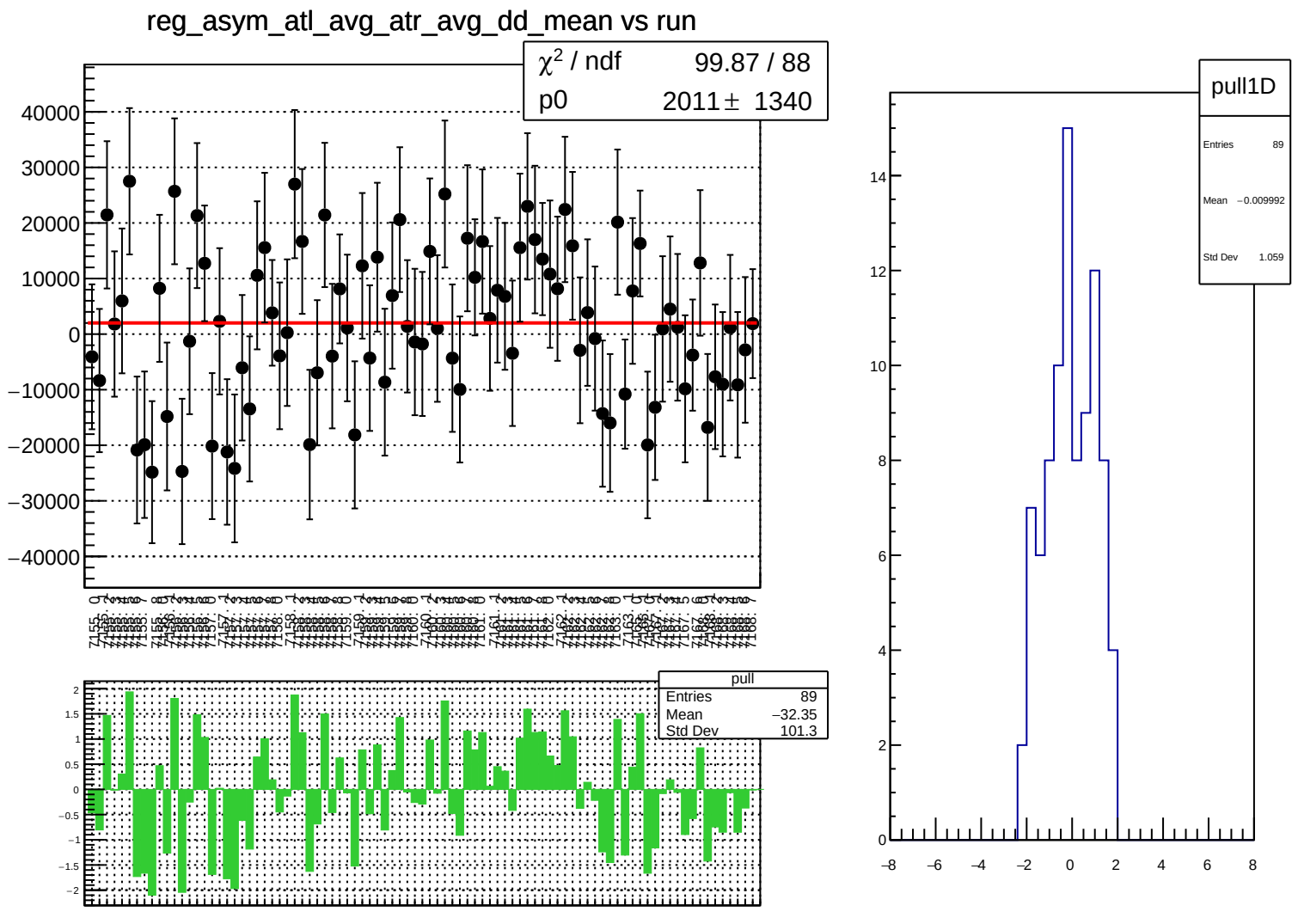

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.46 / 88
p0 0.5199 ± 0.2841
pull
Entries 89
Mean −114
Std Dev 0
pull1D
Entries 89
Mean −0.02239
Std Dev 0.8832

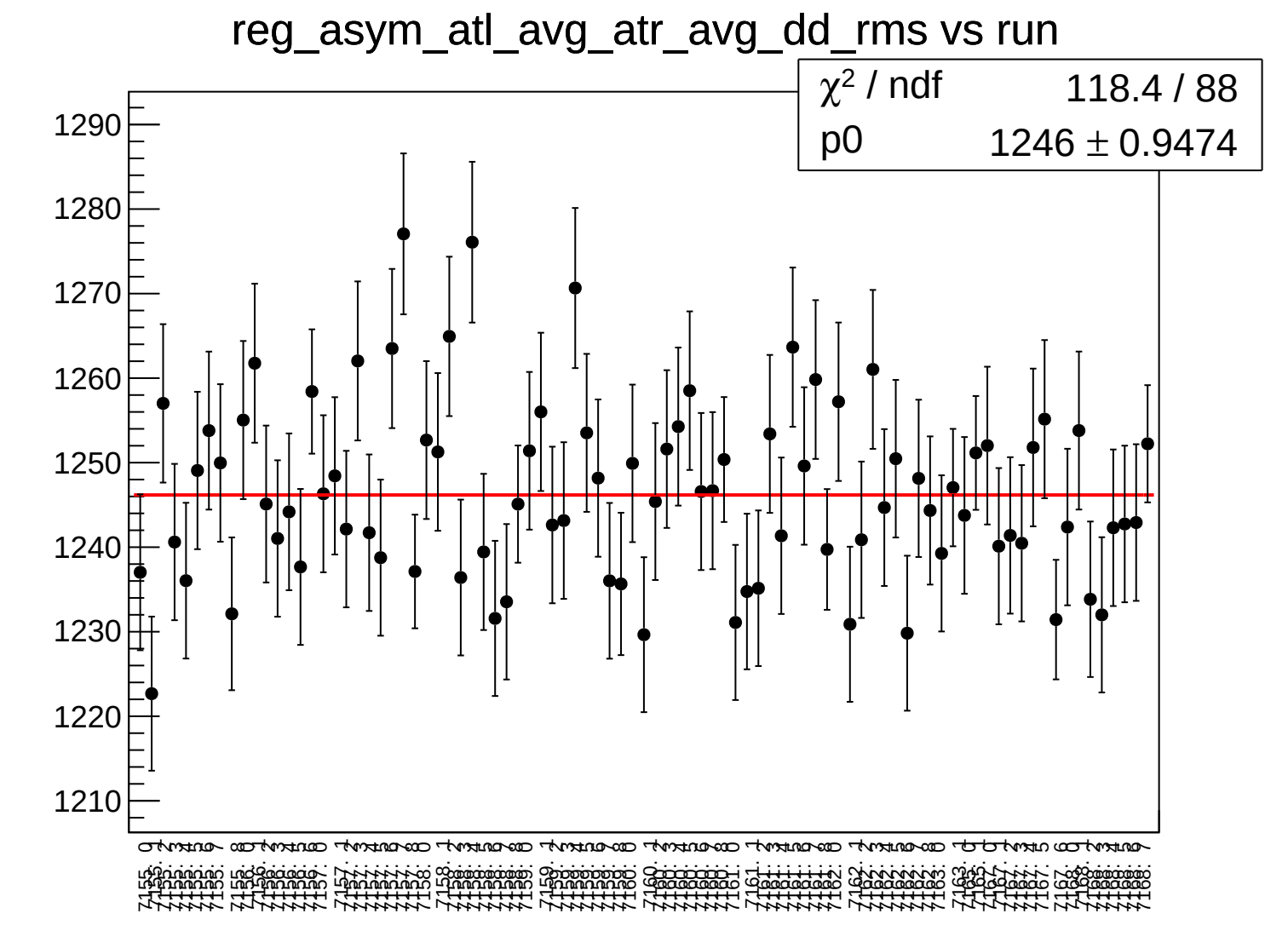

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.576e+04 / 88
p0 257.6 ± 0.2009
550
500
450
400
350
300
250
200
150

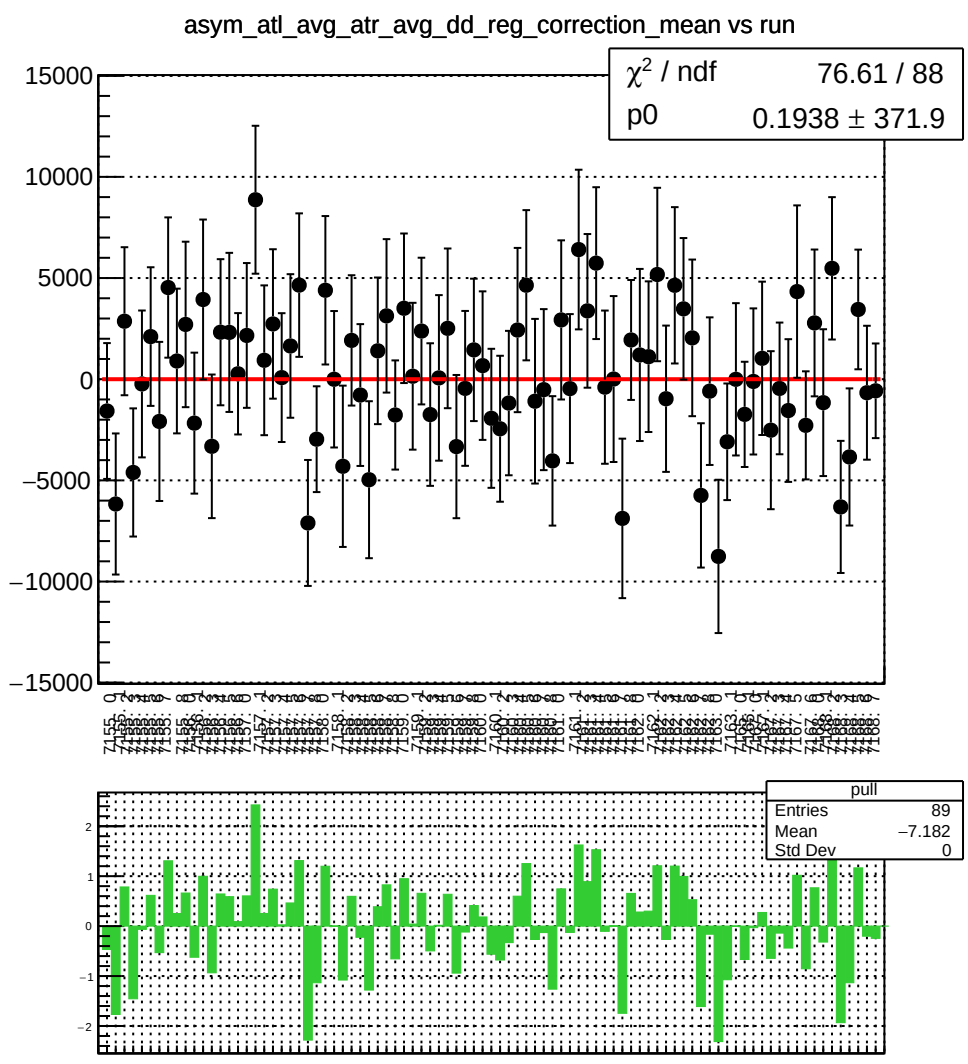

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.93 / 88
p0 1.312e−13 ± 1.599e−13
pull
Entries 89
Mean 47.64
Std Dev 0

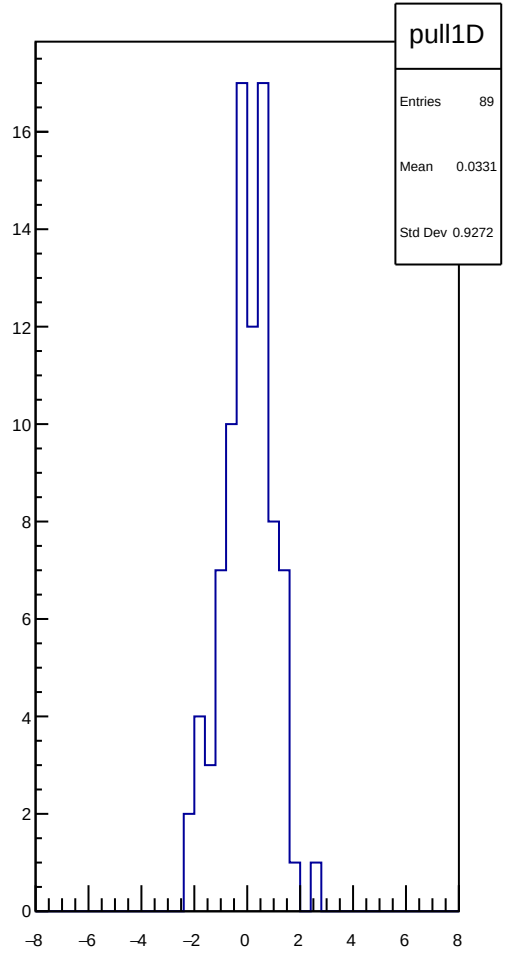

pull1D
Entries 89
Mean −0.01706
Std Dev 0.9174

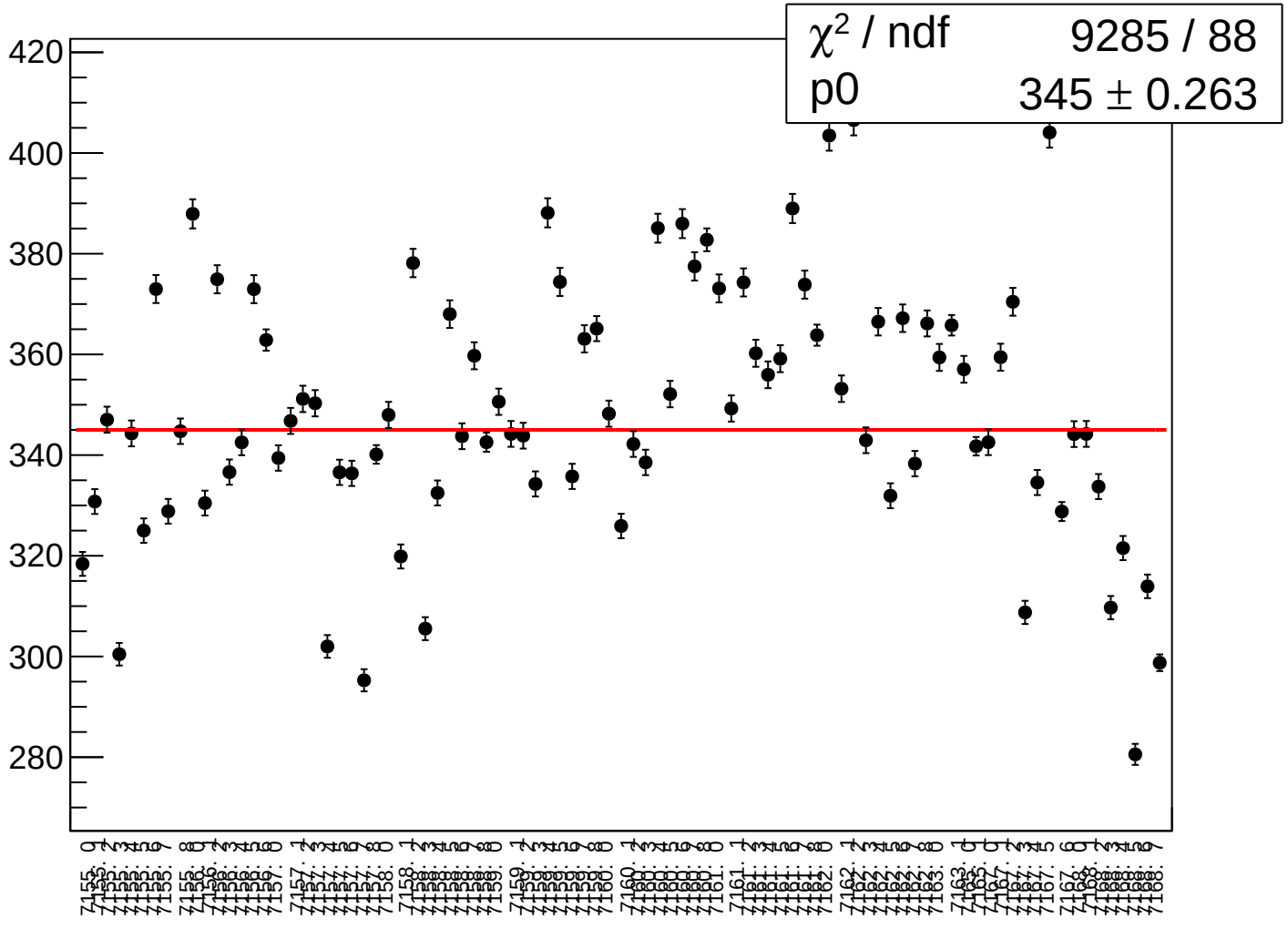

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.808e+05 / 88
p0 1.212e−10 ± 1.13e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

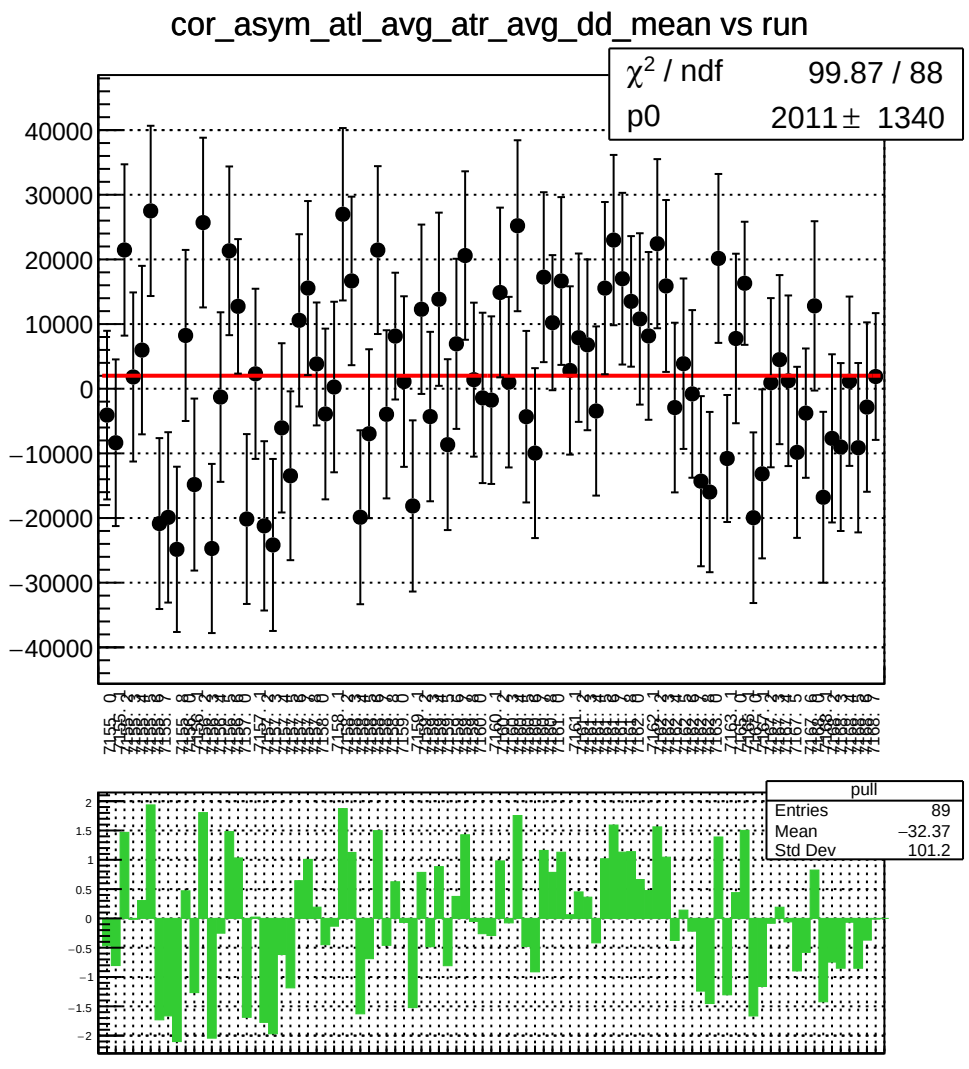

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.35
Std Dev 101.3
pull1D
Entries 89
Mean −0.009992
Std Dev 1.059

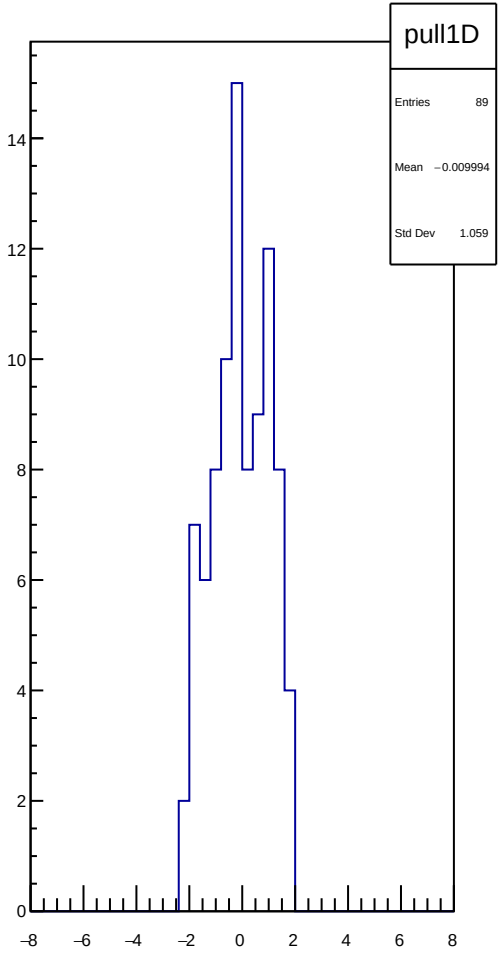

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

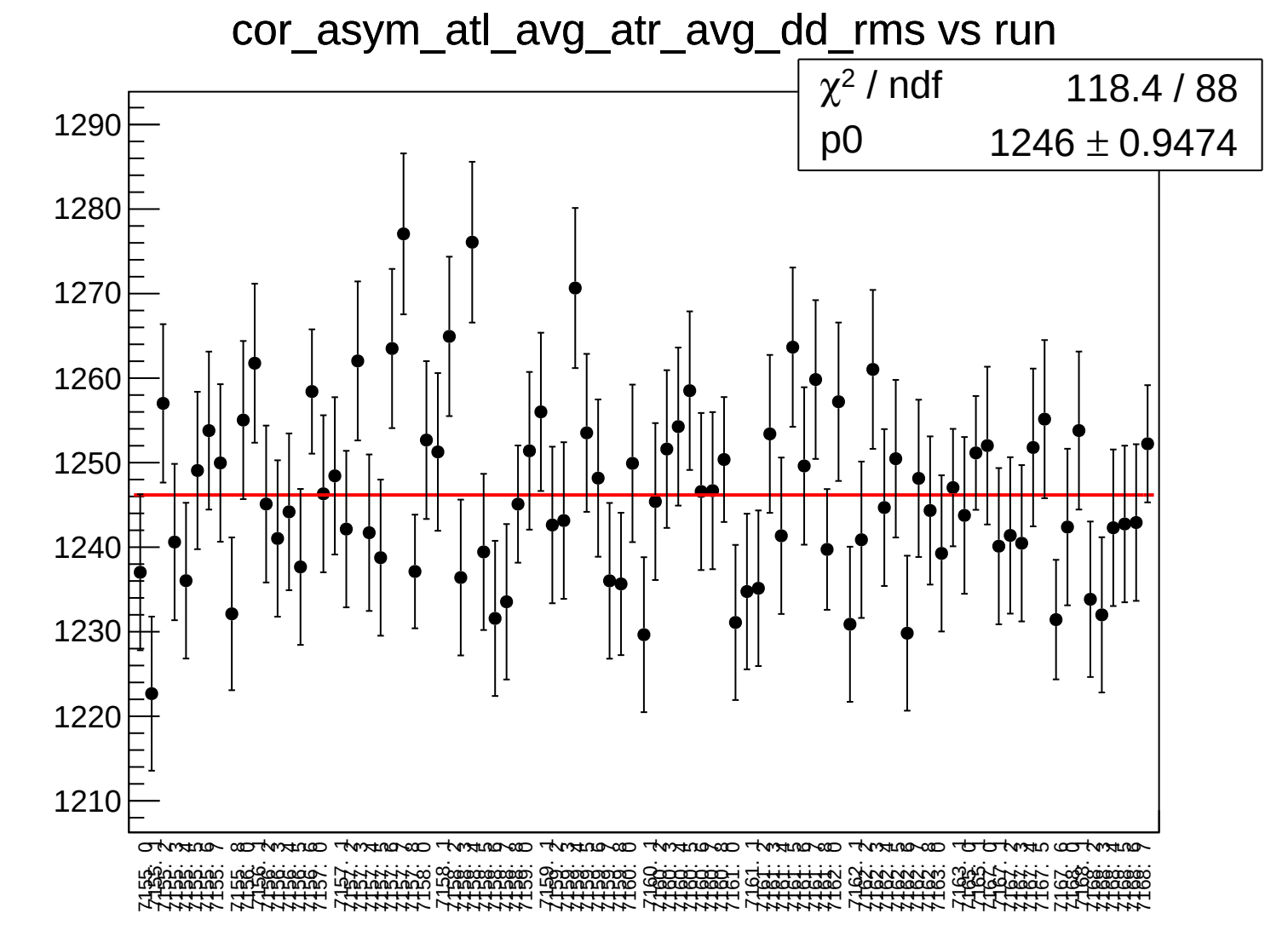

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.1938 ± 371.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −7.182
Std Dev 0
2
1
0
−1
−2

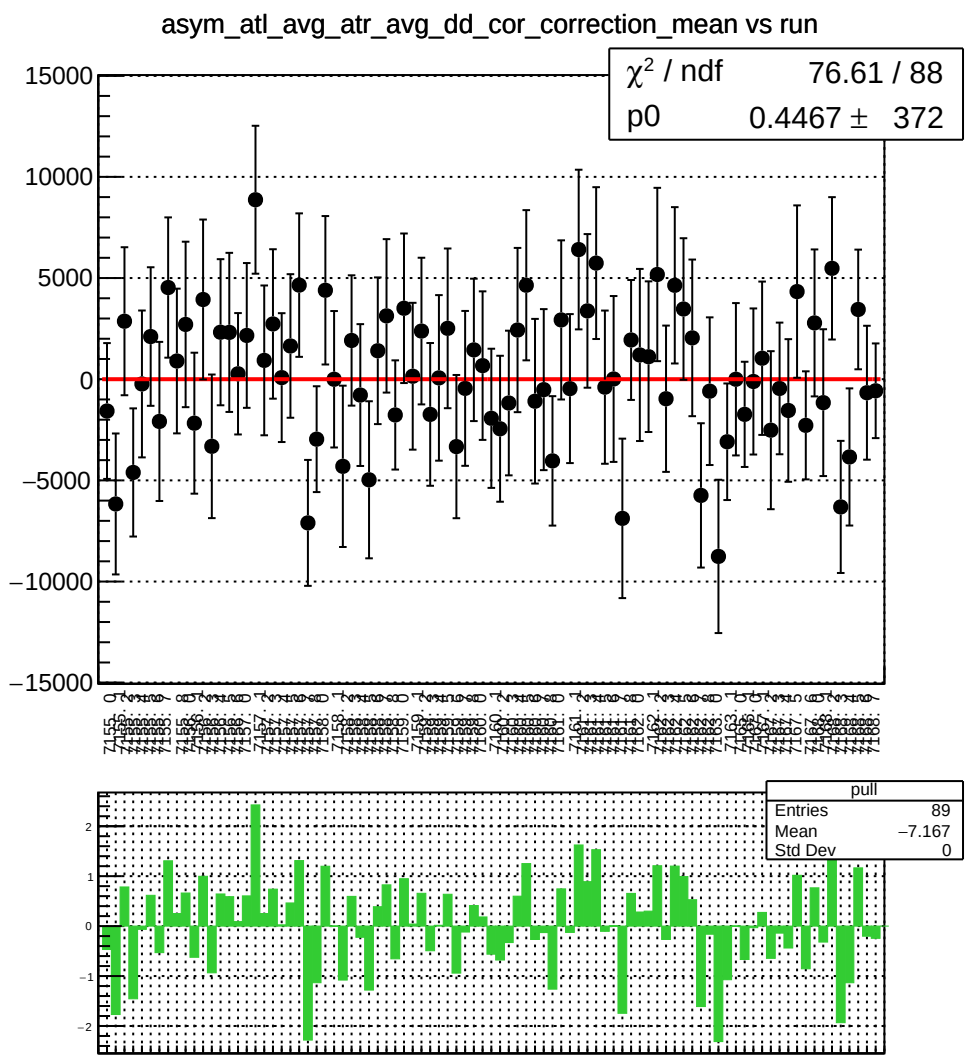

pull1D
Entries 89
Mean 0.0331
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

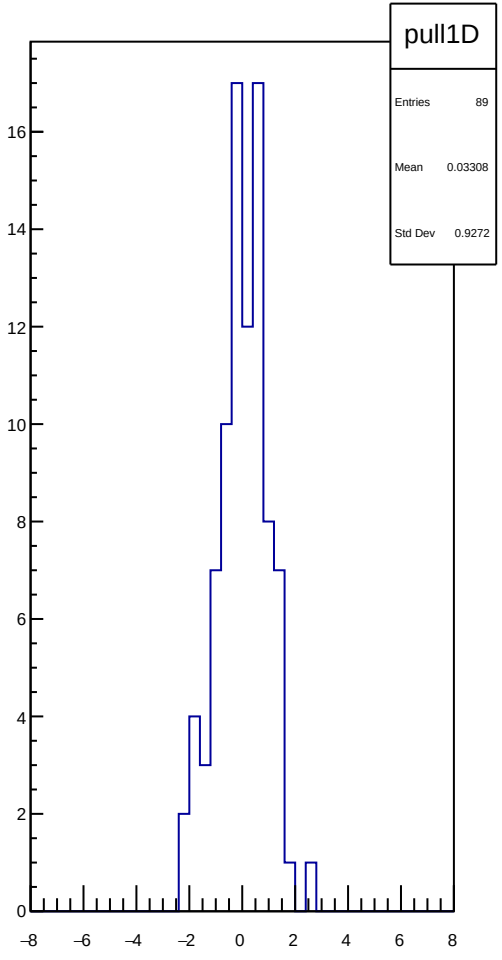

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 9285 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

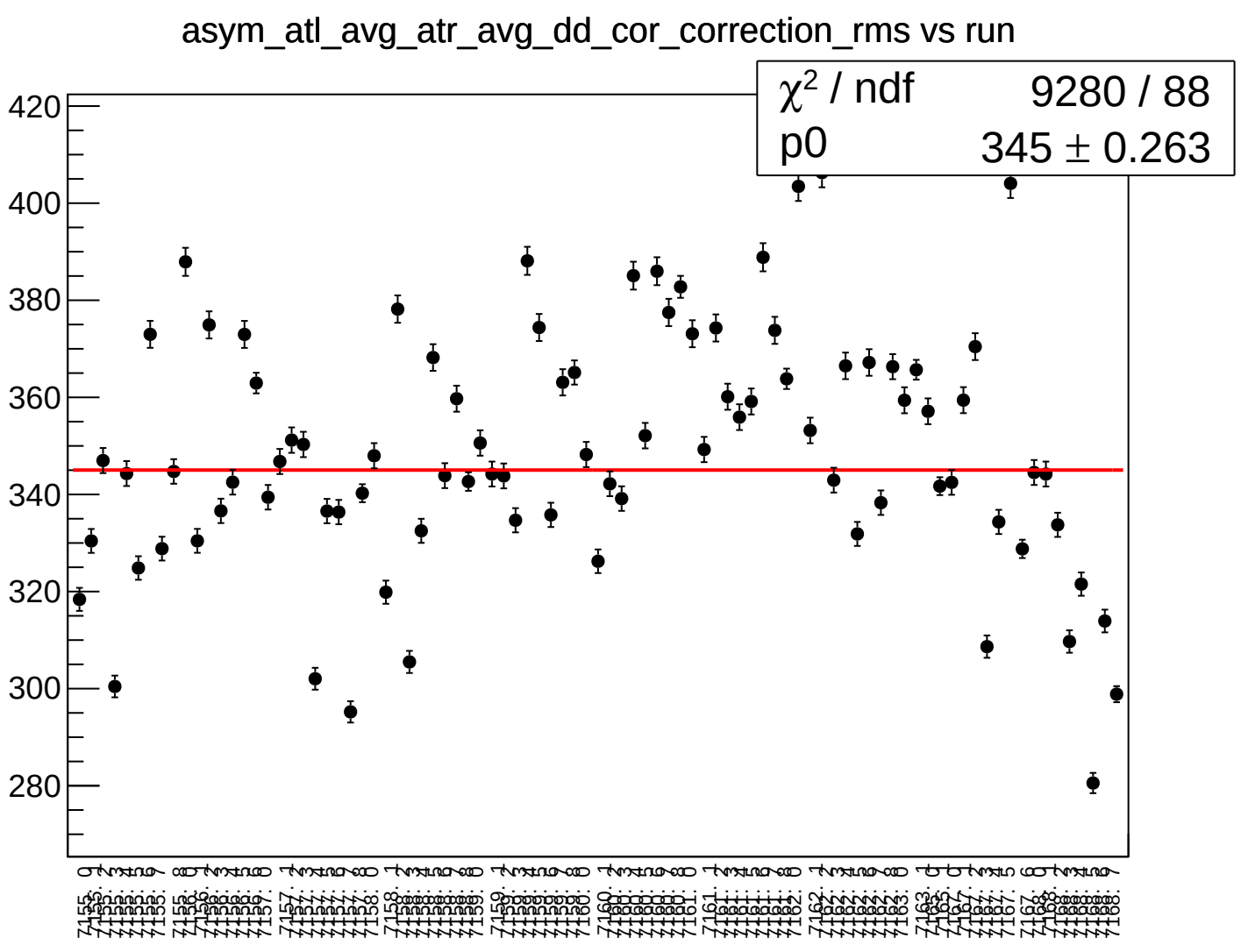

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.37
Std Dev 101.2

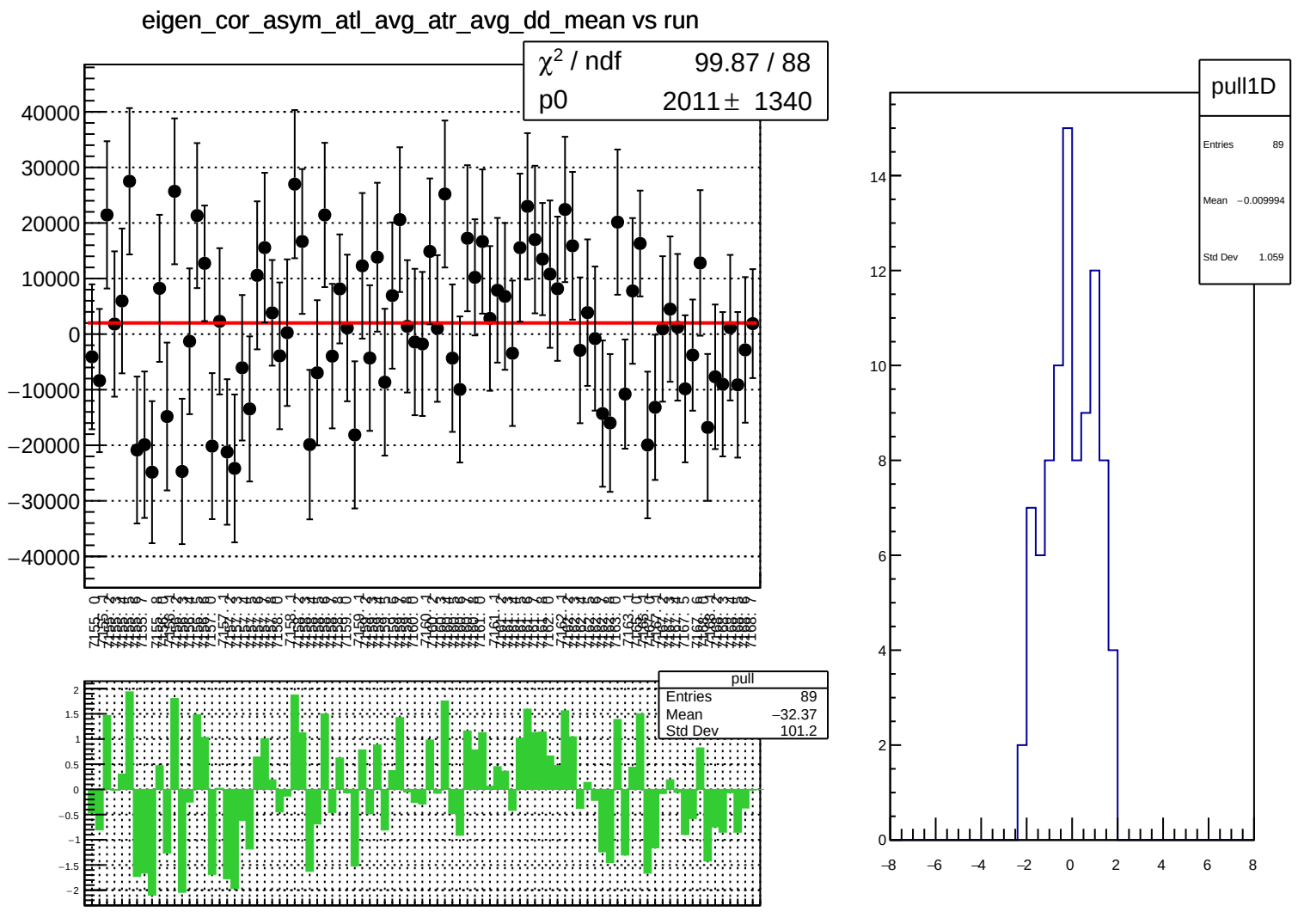

pull1D
Entries 89
Mean −0.009994
Std Dev 1.059

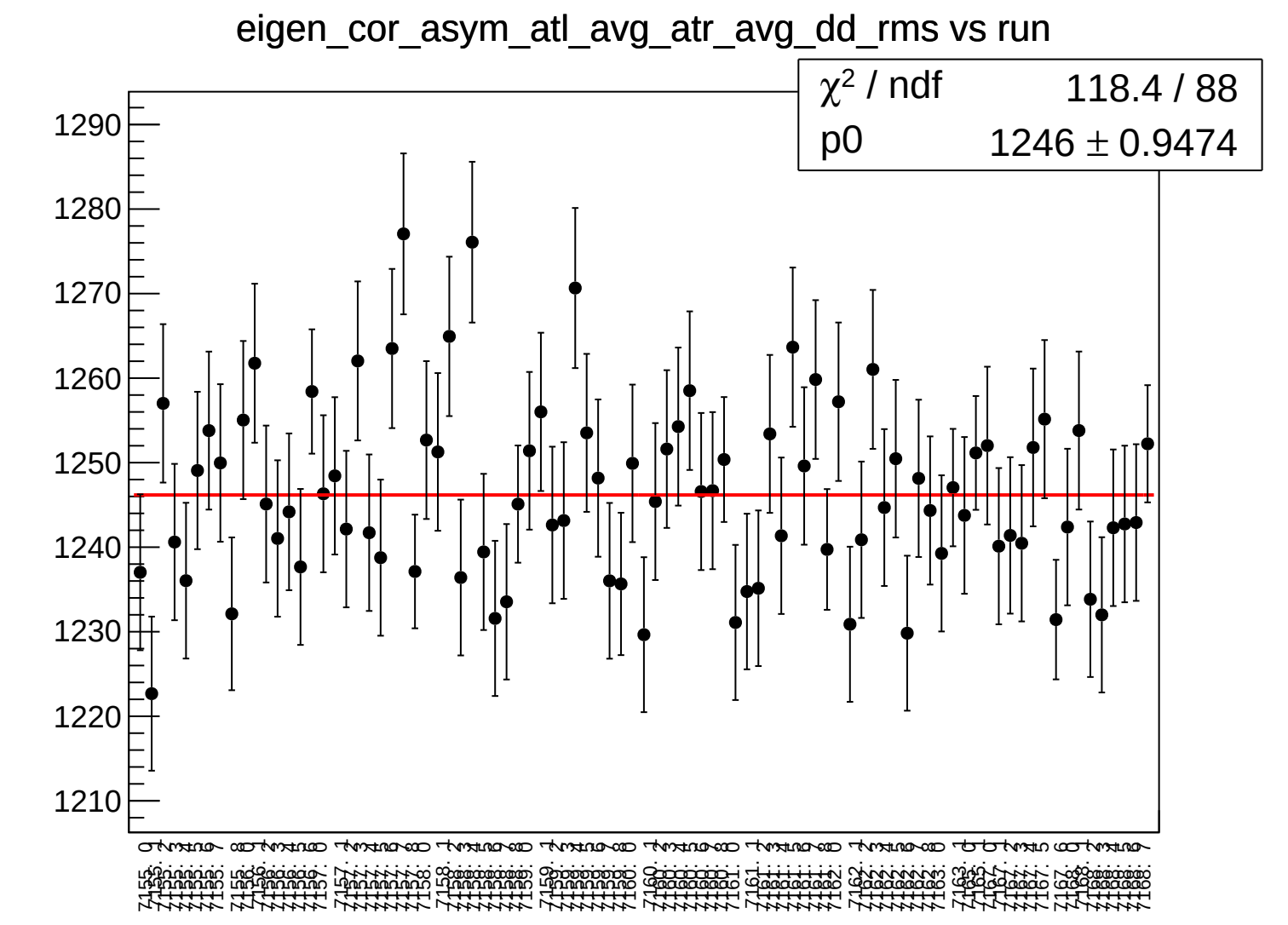

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

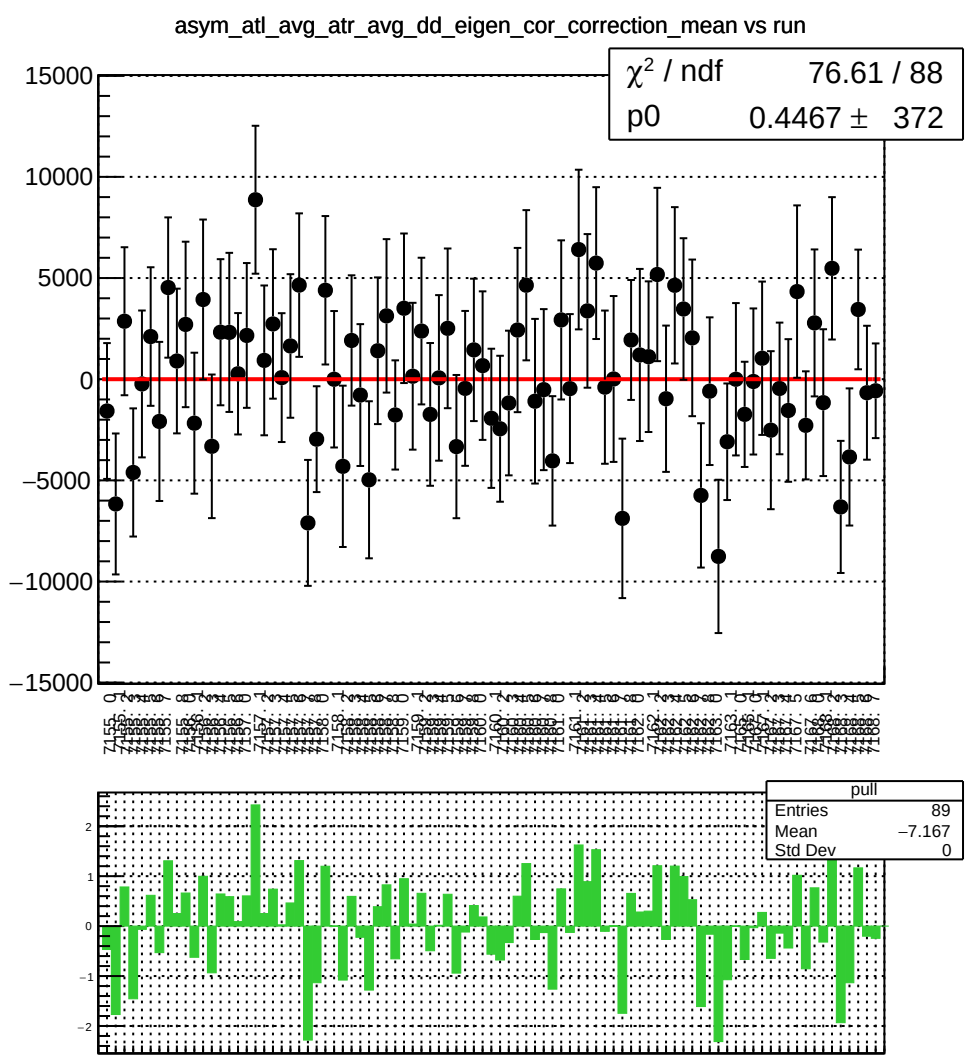

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.4467 ± 372
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −7.167
Std Dev 0
2
1
0
−1
−2

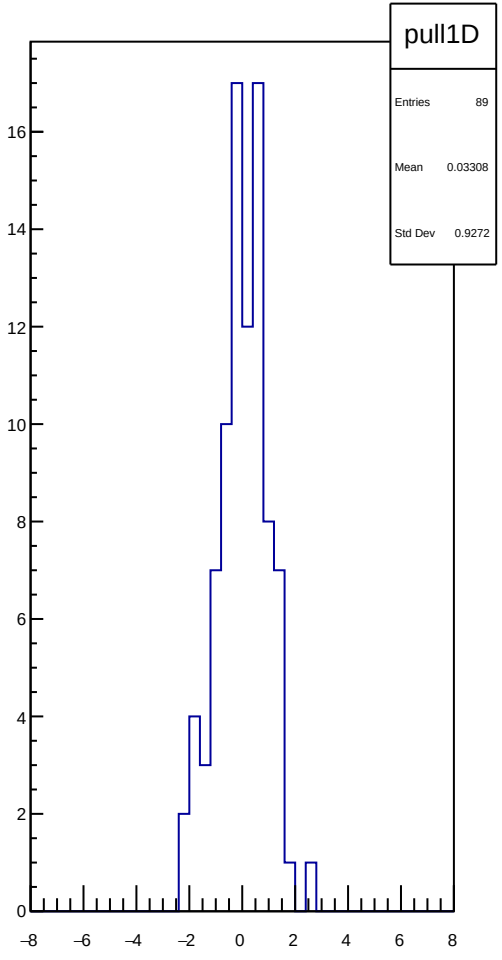

pull1D
Entries 89
Mean 0.03308
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

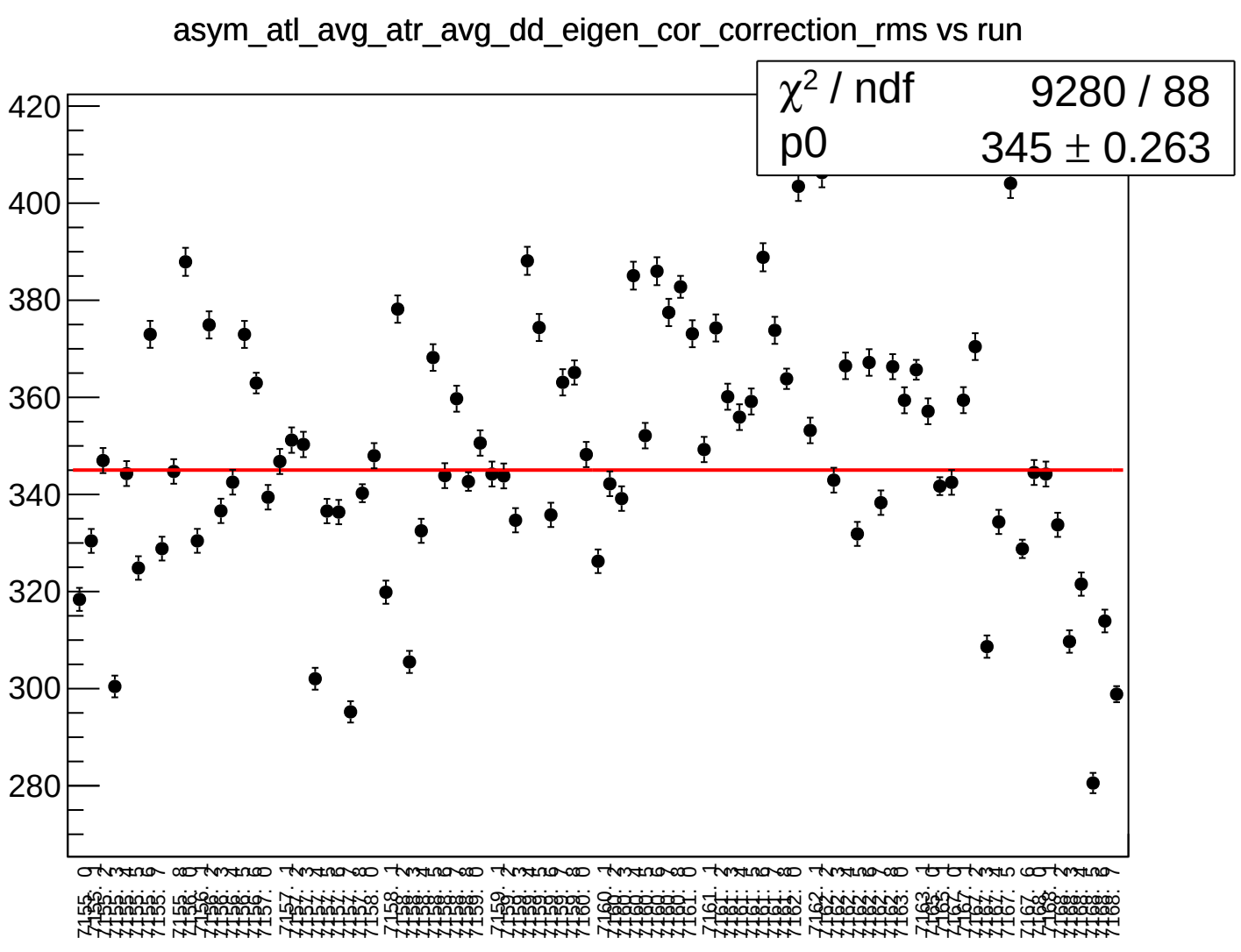

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 9280 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

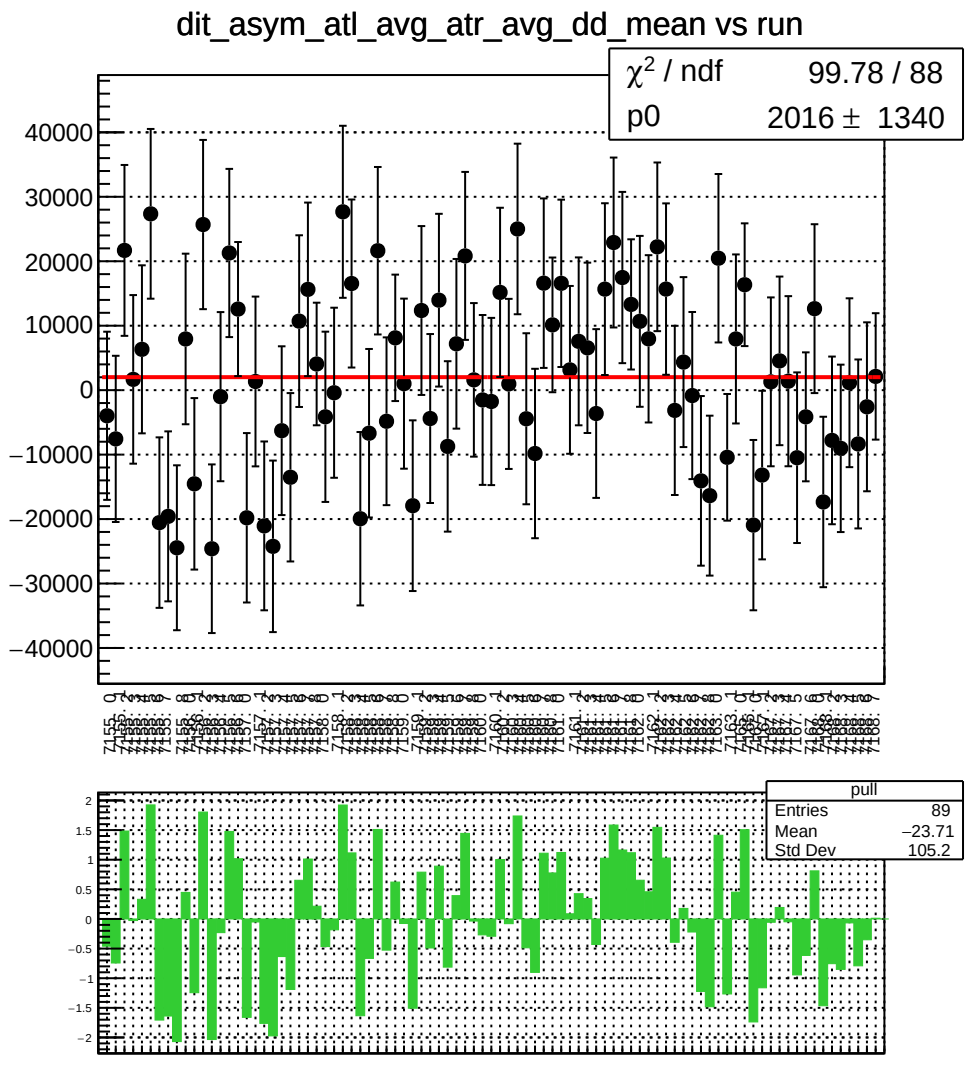

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.37
Std Dev 101.2
pull1D
Entries 89
Mean −0.009994
Std Dev 1.059

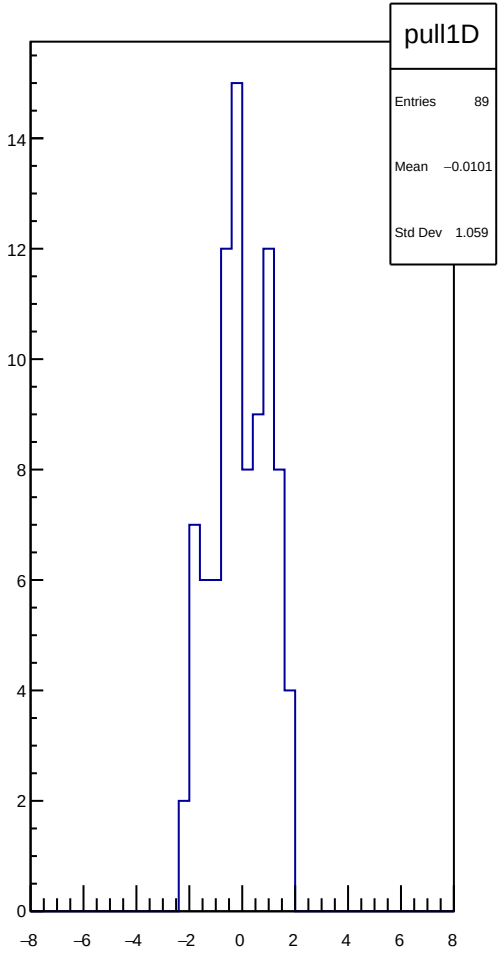

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

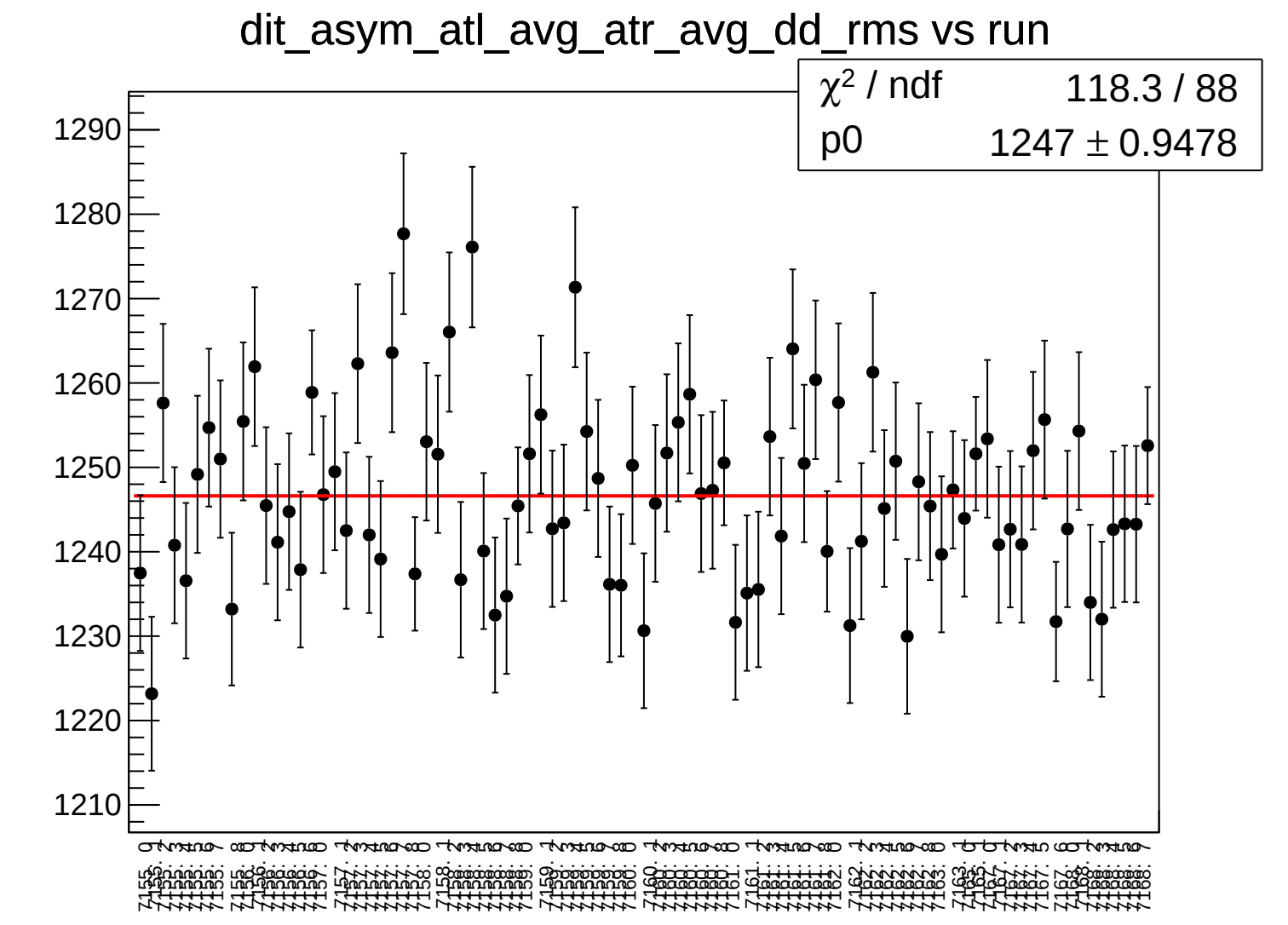

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.4467 ± 372
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −7.167
Std Dev 0
2
1
0
−1
−2

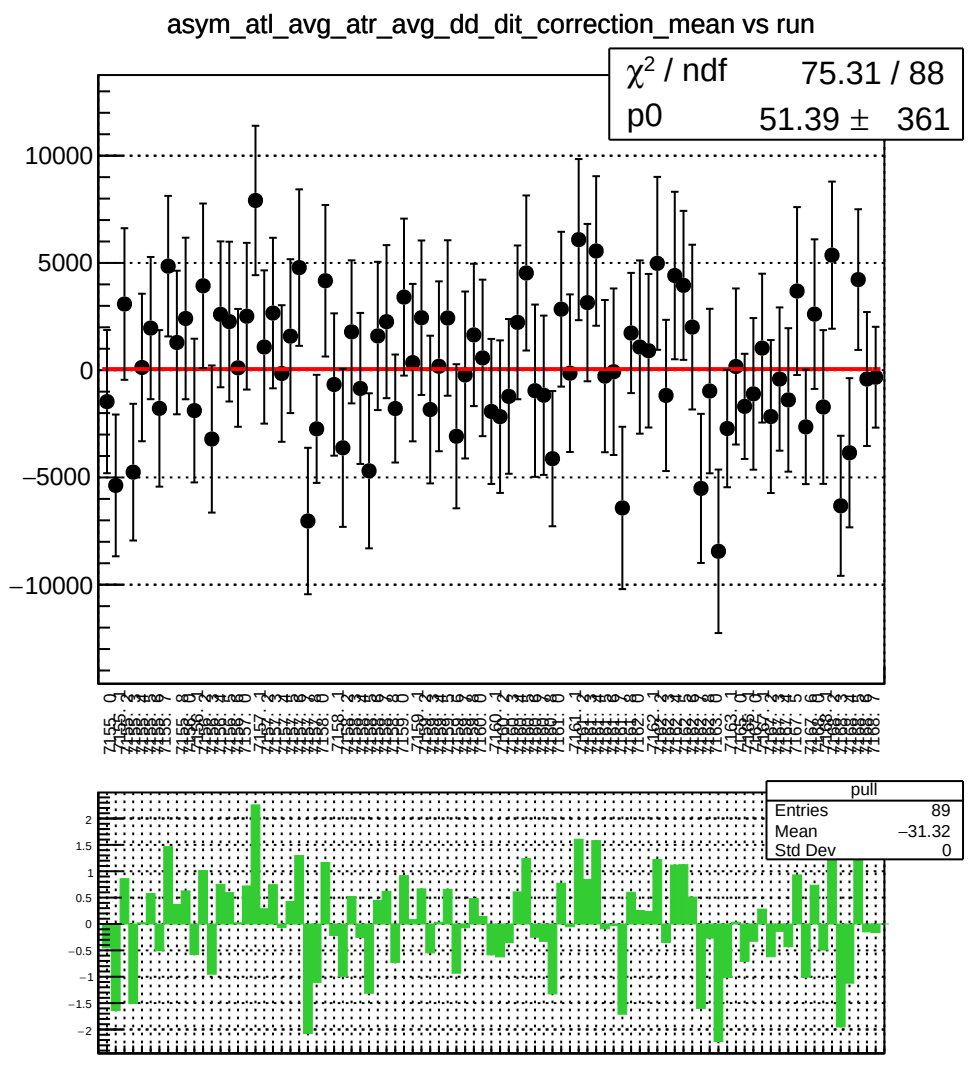

pull1D
Entries 89
Mean 0.03308
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

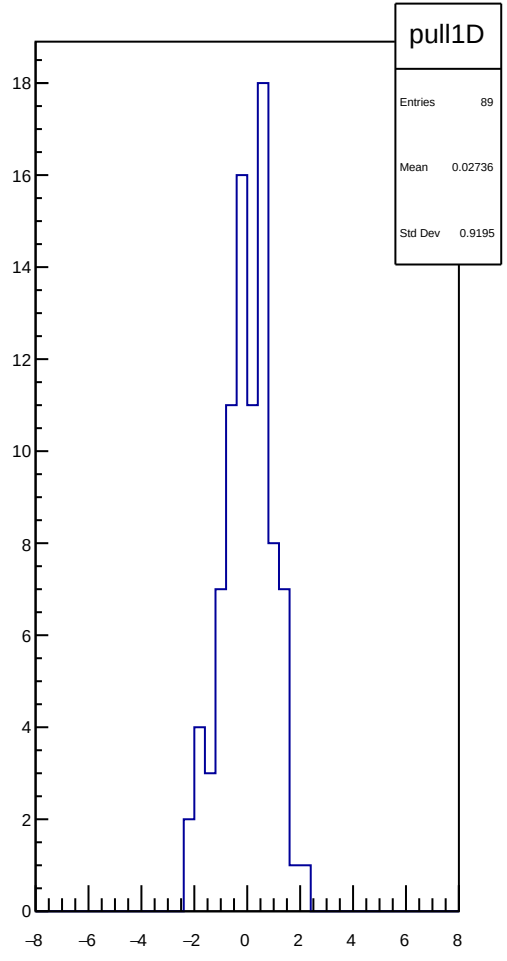

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9280 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

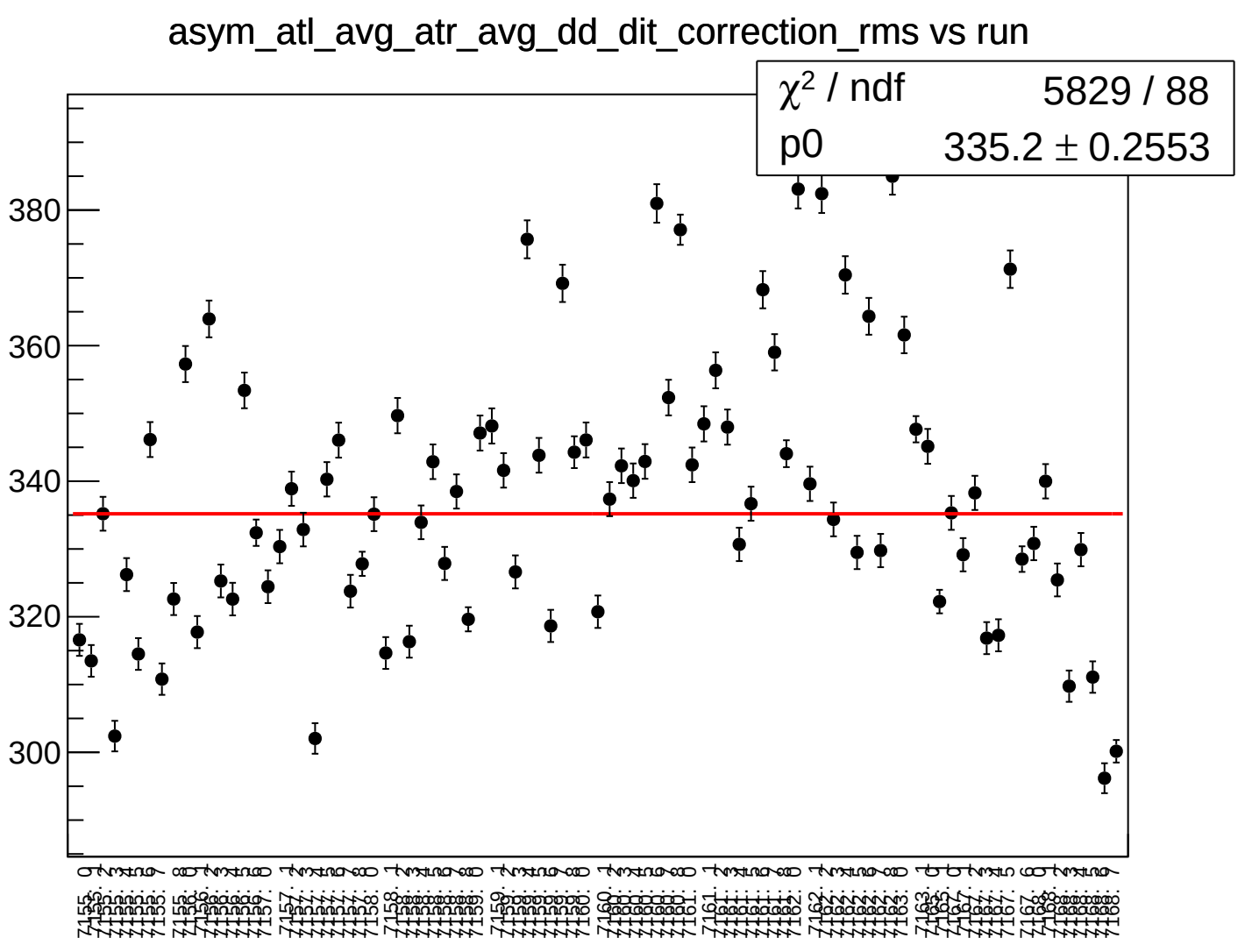

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.78 / 88
p0 2016 ± 1340
pull
Entries 89
Mean −23.71
Std Dev 105.2

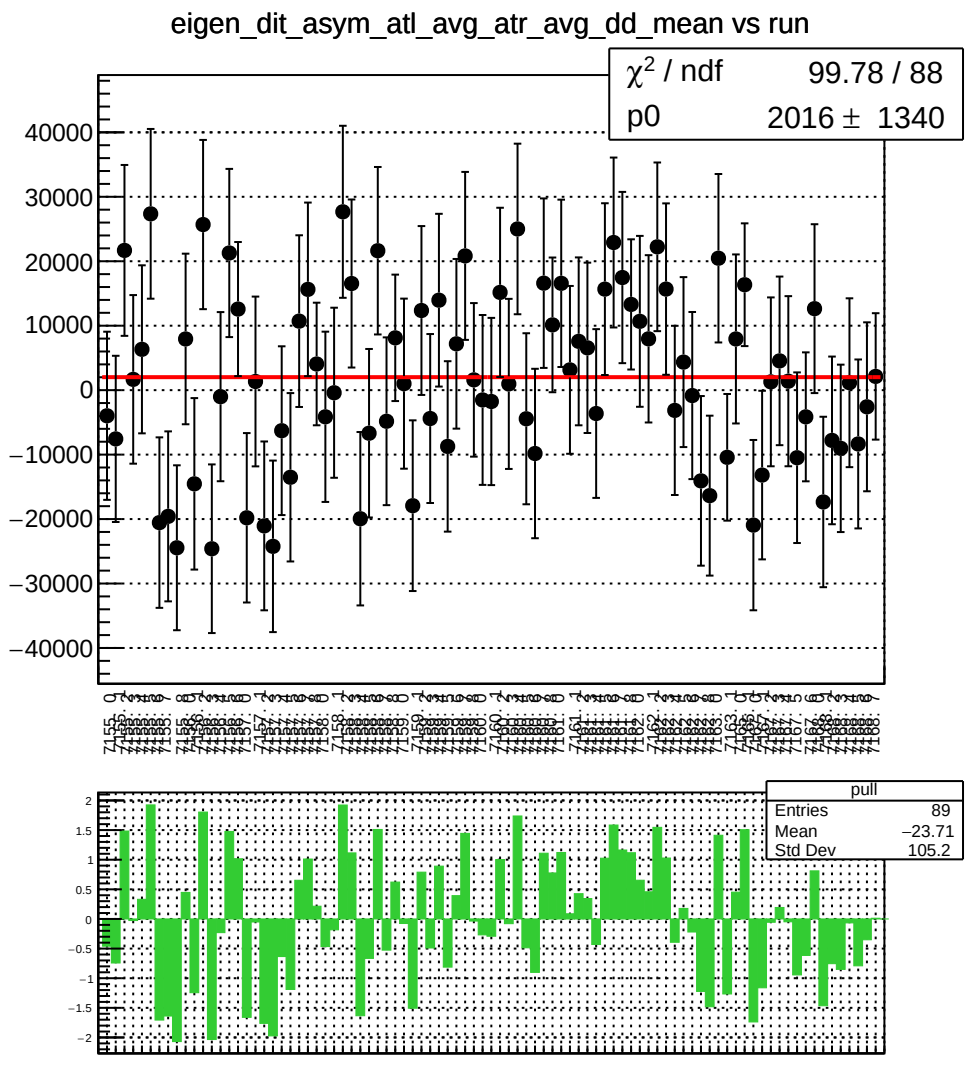

pull1D
Entries 89
Mean −0.0101
Std Dev 1.059

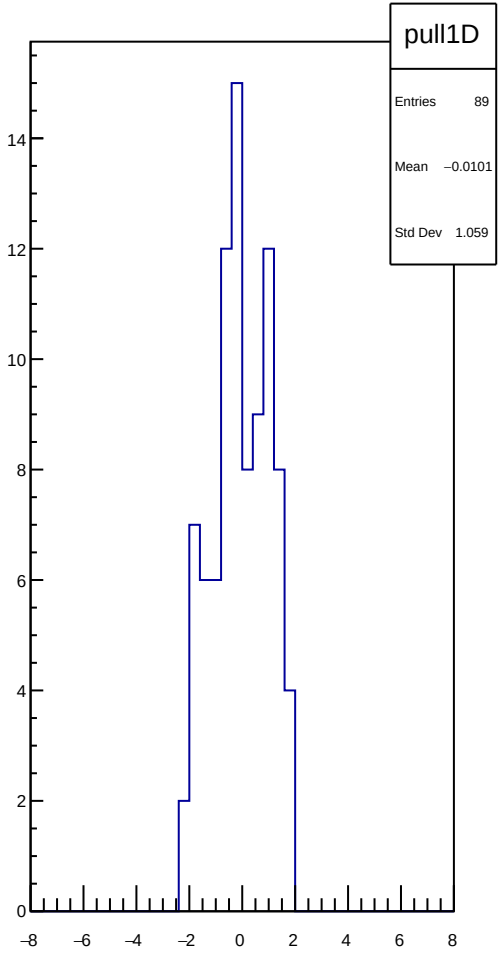

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.3 / 88
p0 1247 ± 0.9478
1290
1280
1270
1260
1250
1240
1230
1220
1210

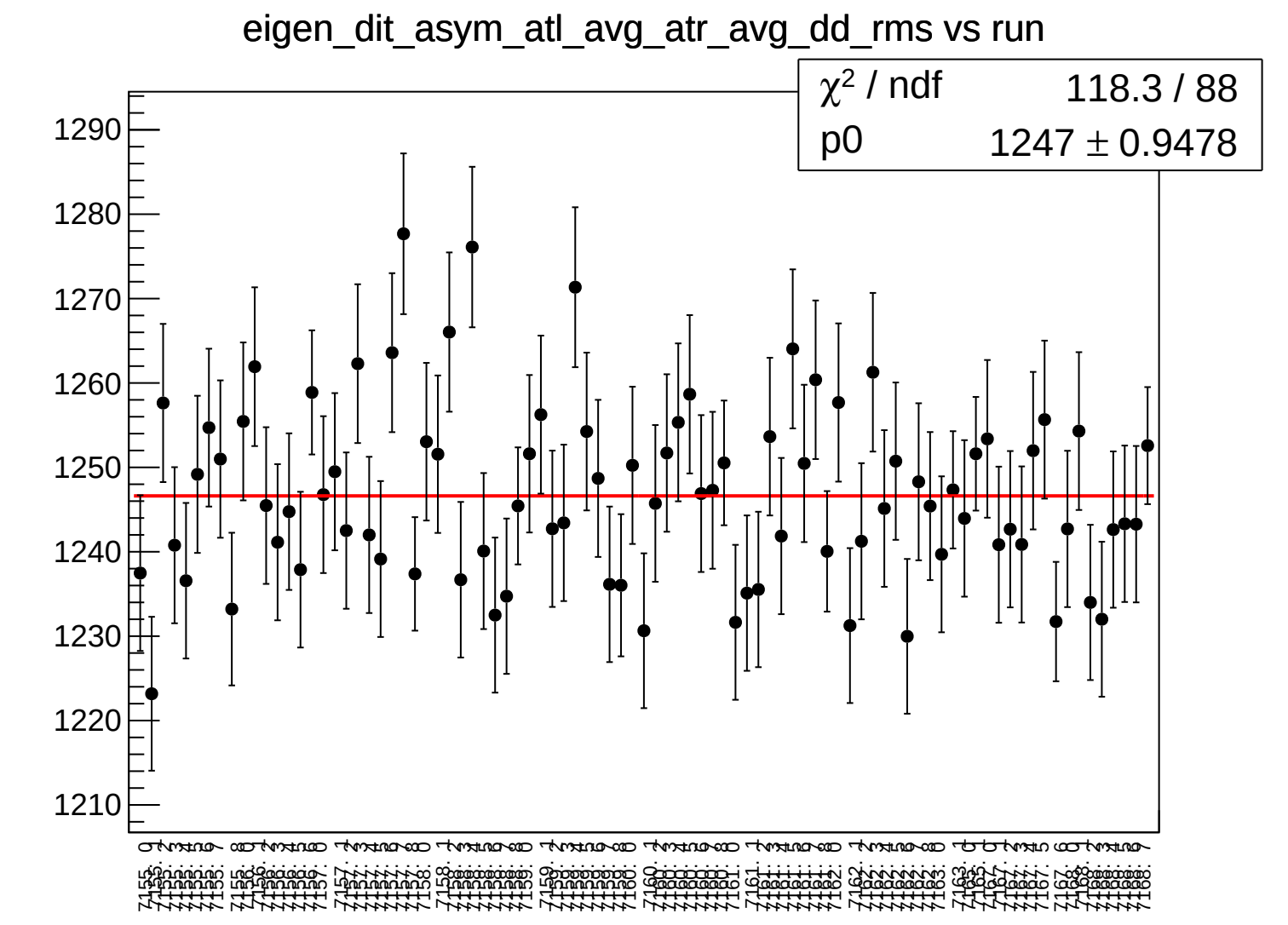

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 75.31 / 88
p0 51.39 ± 361
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −31.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

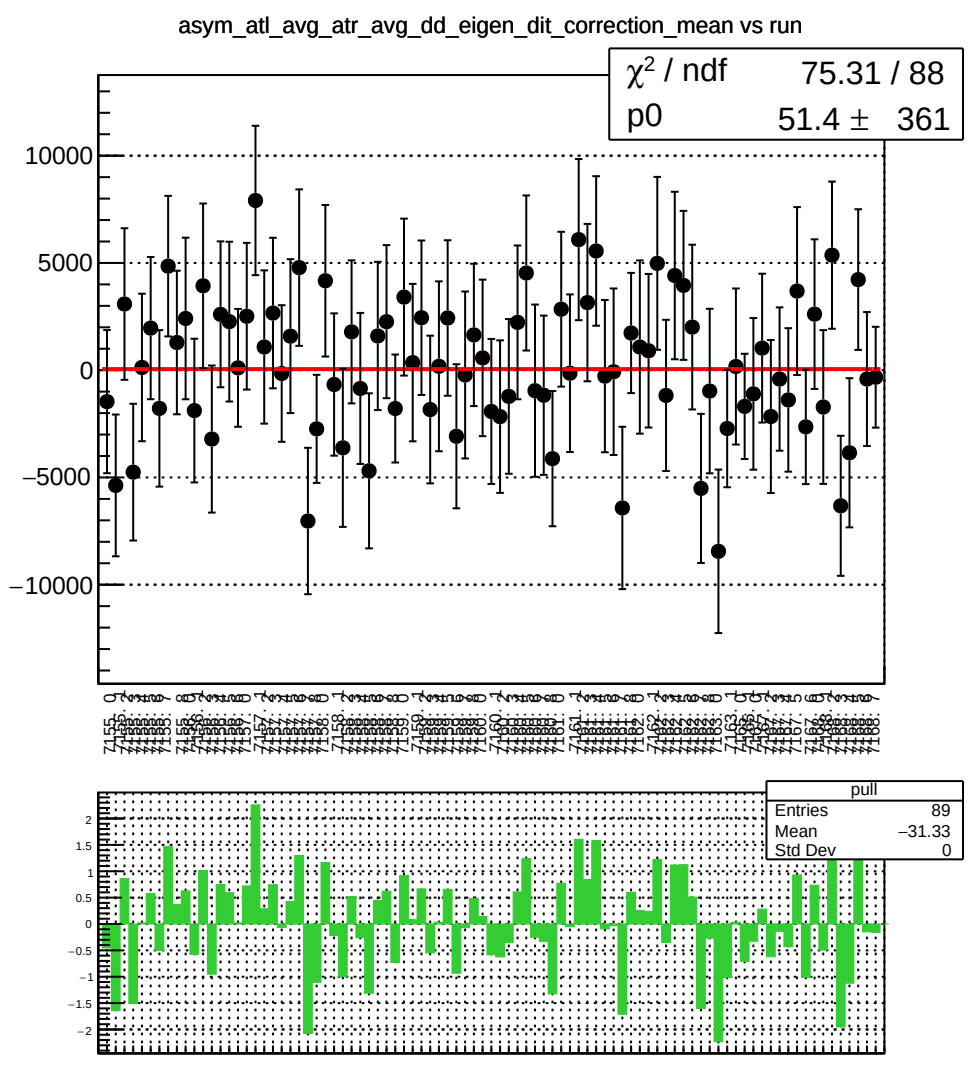

pull1D
Entries 89
Mean 0.02736
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

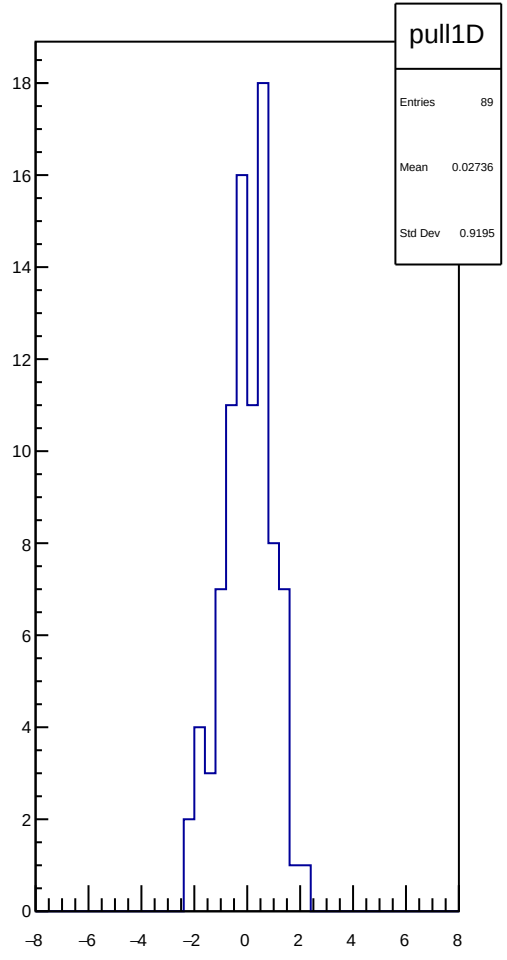

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 5829 / 88
p0 335.2 ± 0.2553
380
360
340
320
300

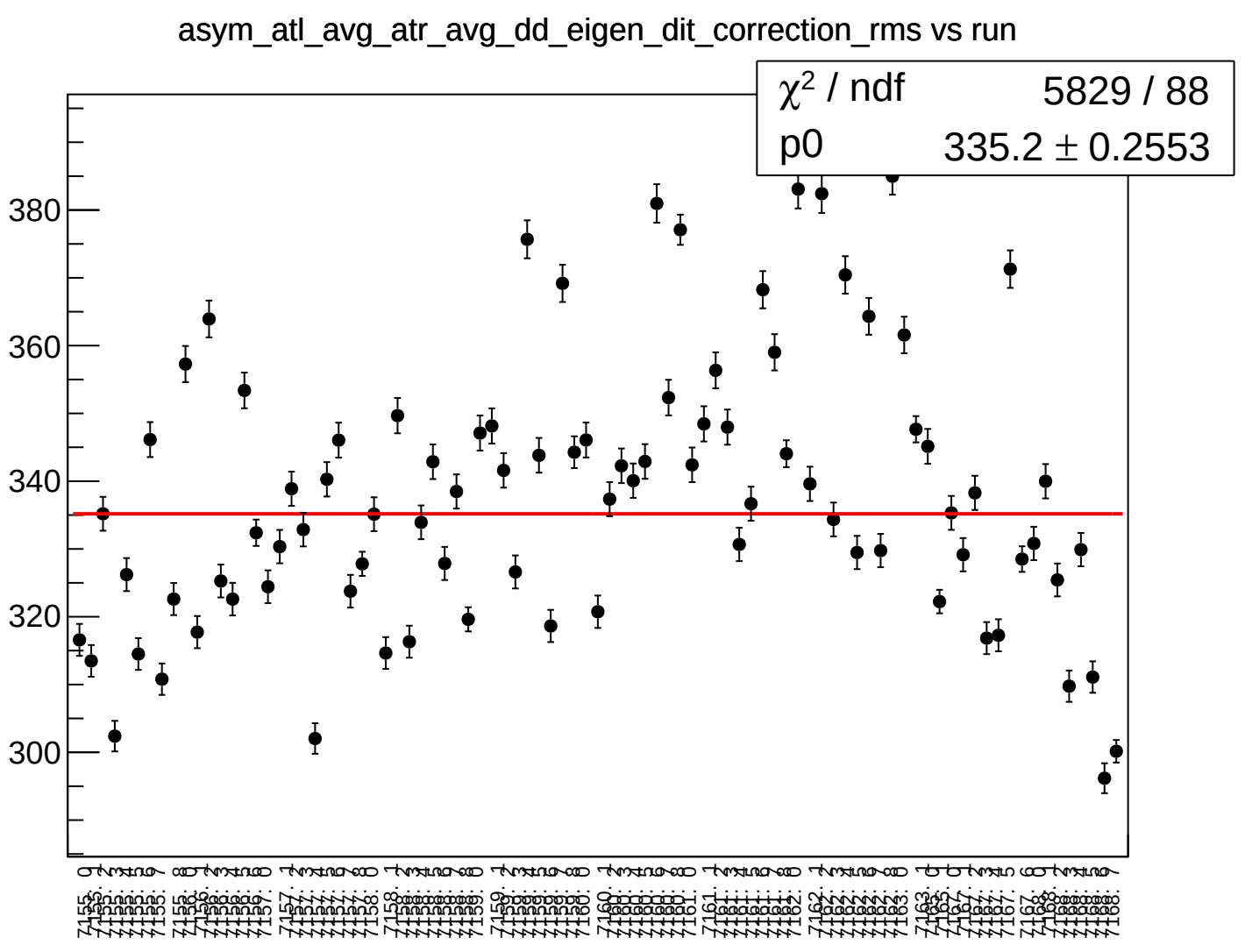

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 99.78 / 88
p0 2016 ± 1340
pull
Entries 89
Mean −23.71
Std Dev 105.2

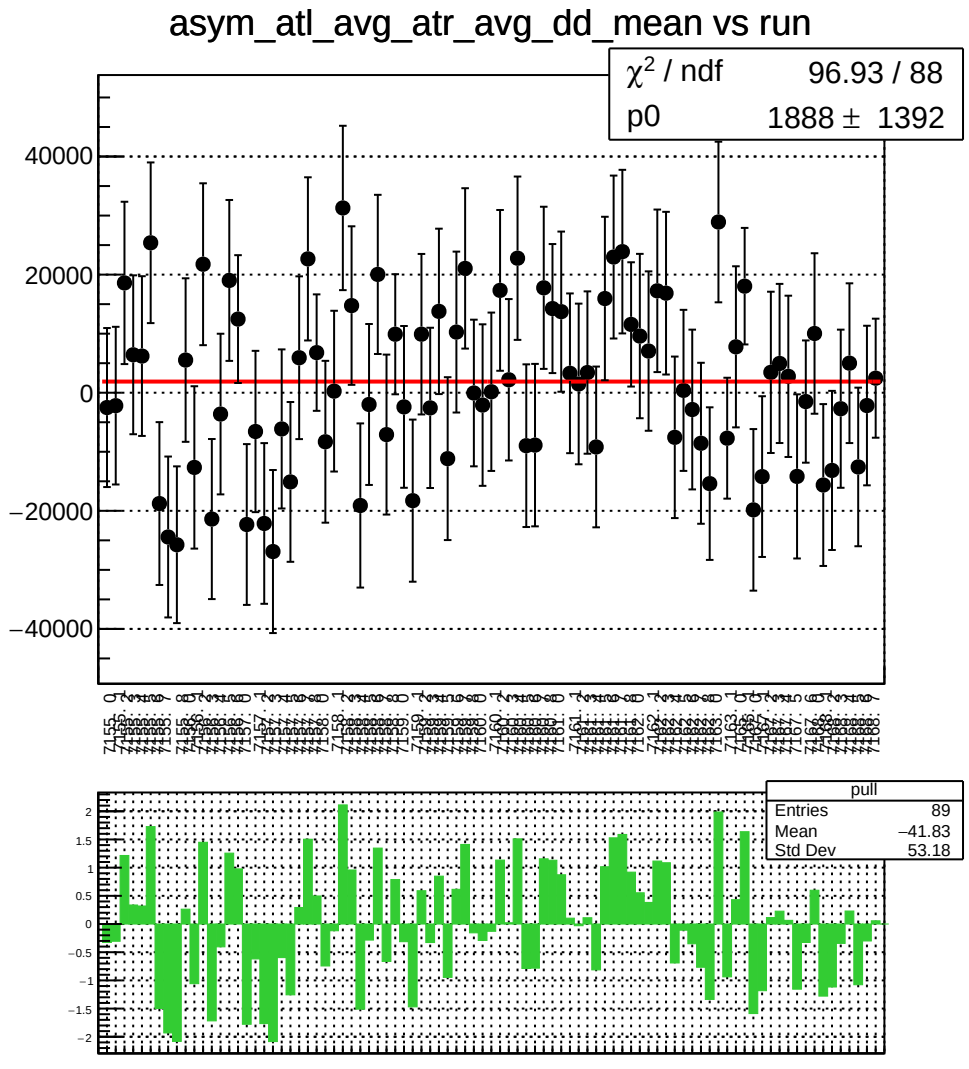

pull1D
Entries 89
Mean −0.0101
Std Dev 1.059

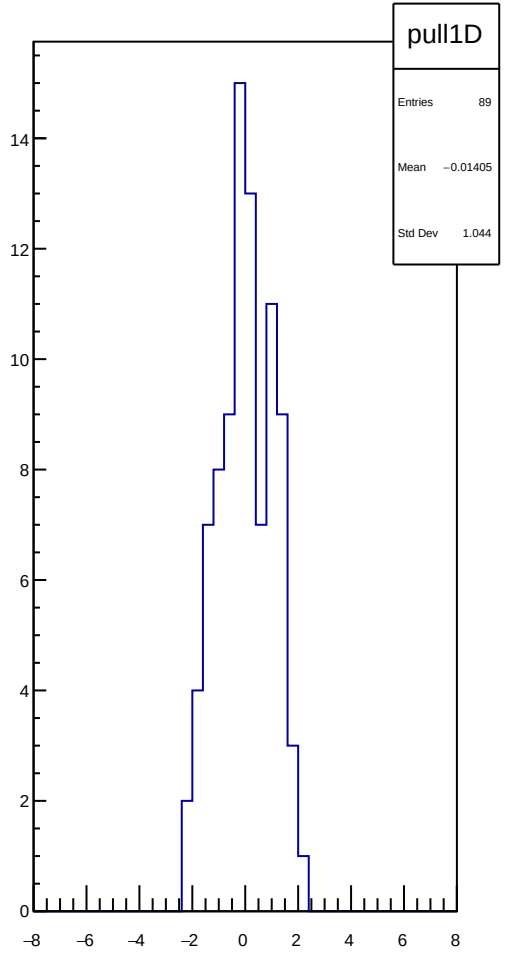

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 118.3 / 88
p0 1247 ± 0.9478
1290
1280
1270
1260
1250
1240
1230
1220
1210

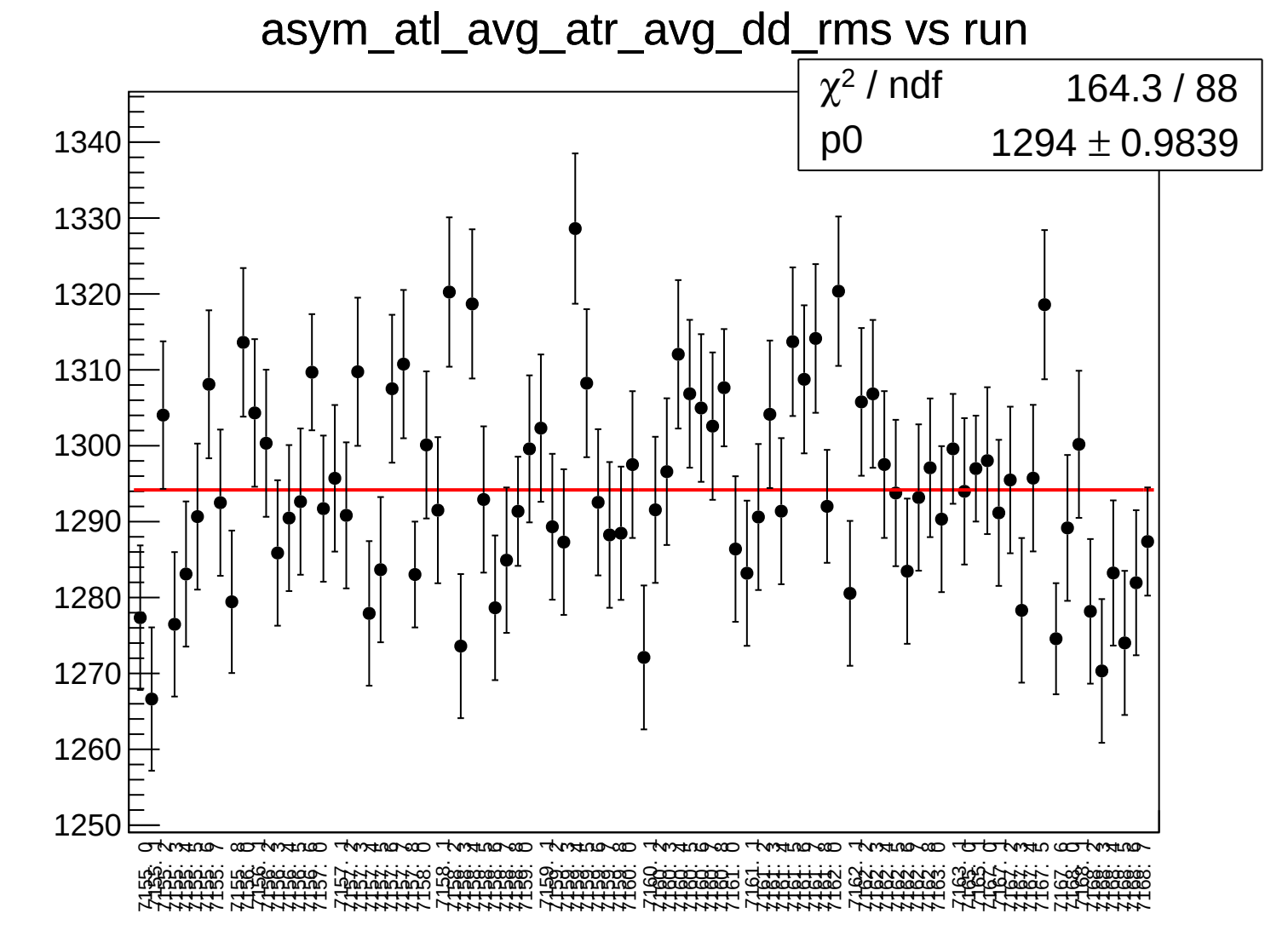

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.31 / 88
p0 51.4 ± 361
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −31.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

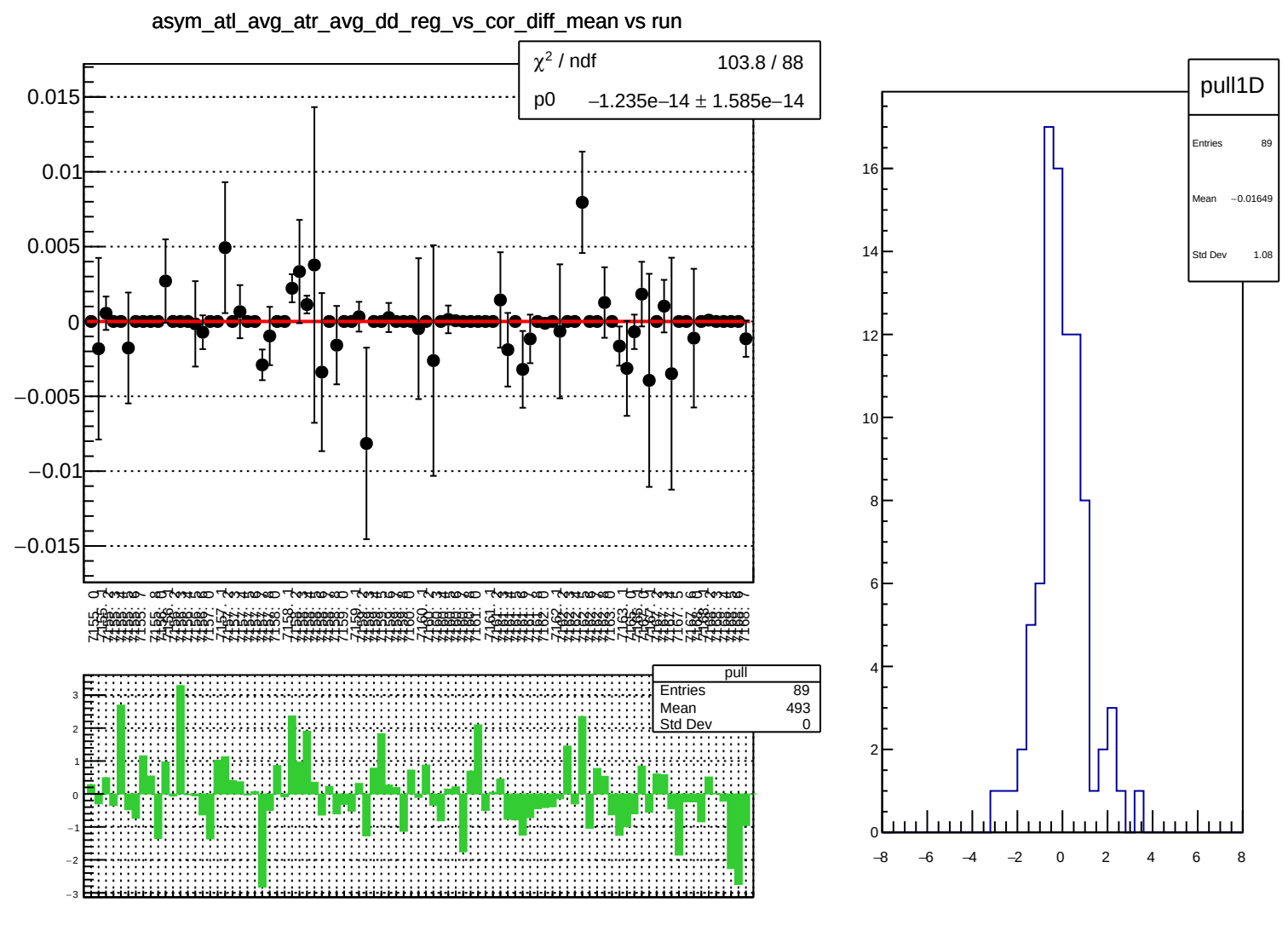

pull1D
Entries 89
Mean 0.02736
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

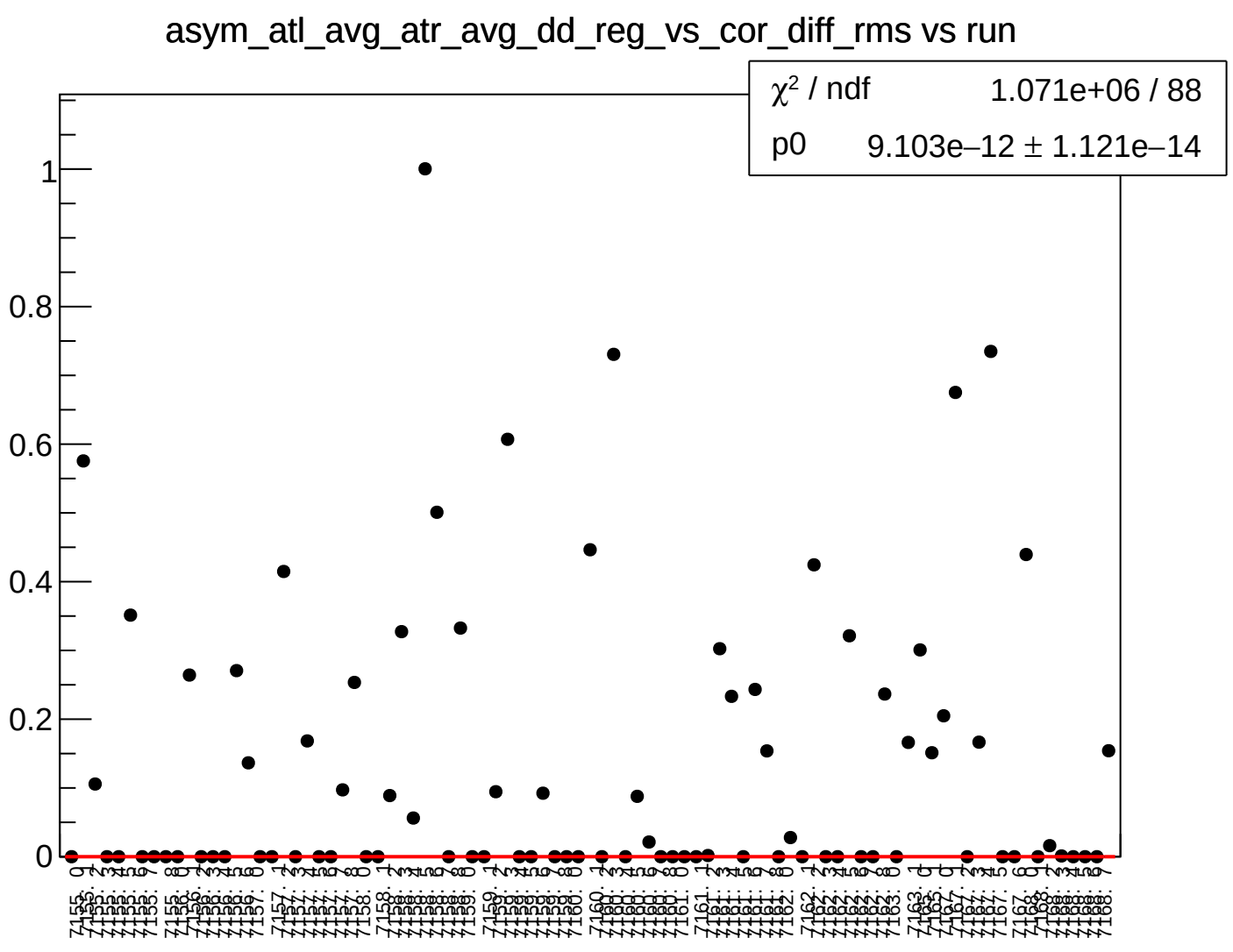

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5829 / 88
p0 335.2 ± 0.2553
380
360
340
320
300

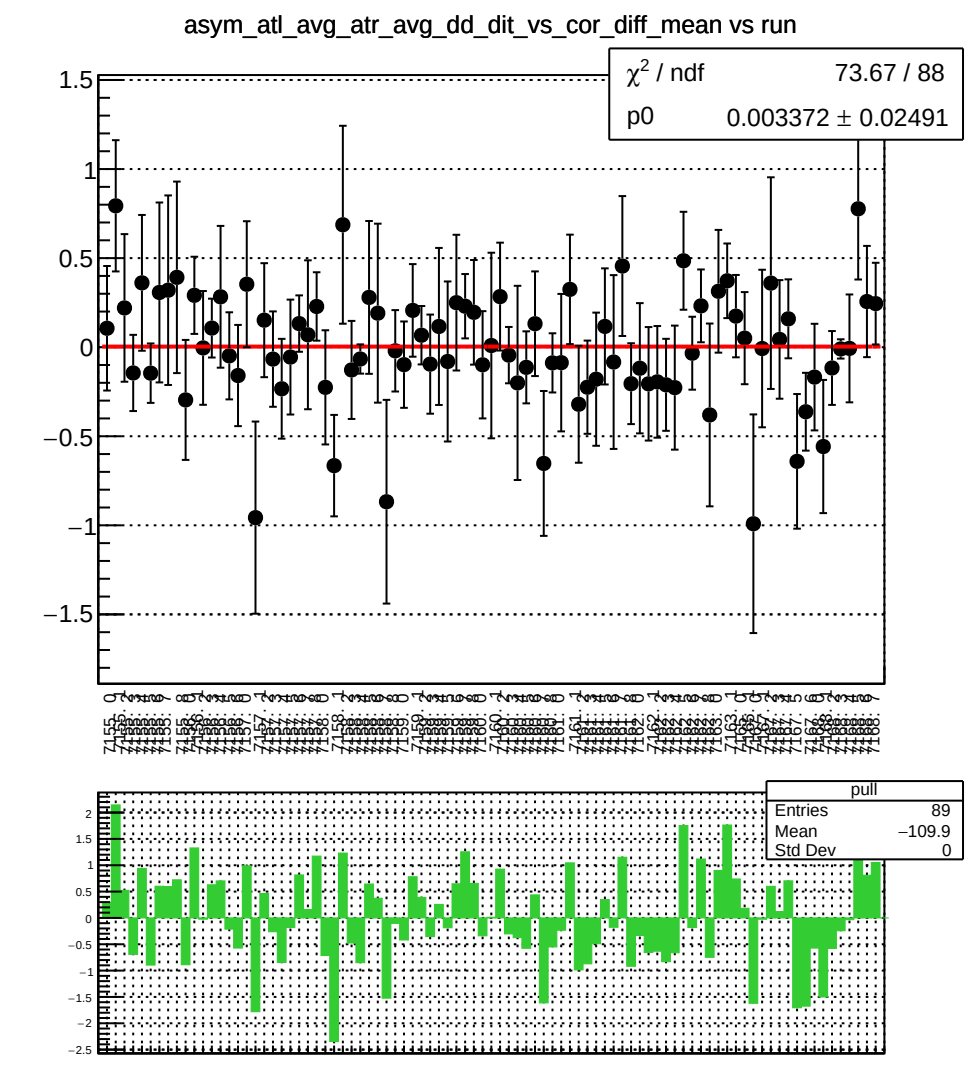

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 96.93 / 88
p0 1888 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −41.83
Std Dev 53.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

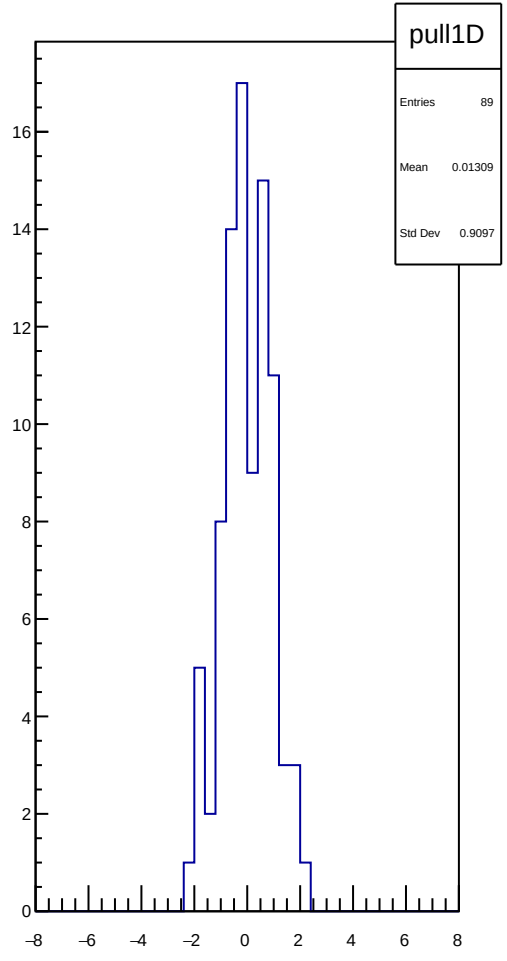

pull1D
Entries 89
Mean −0.01405
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

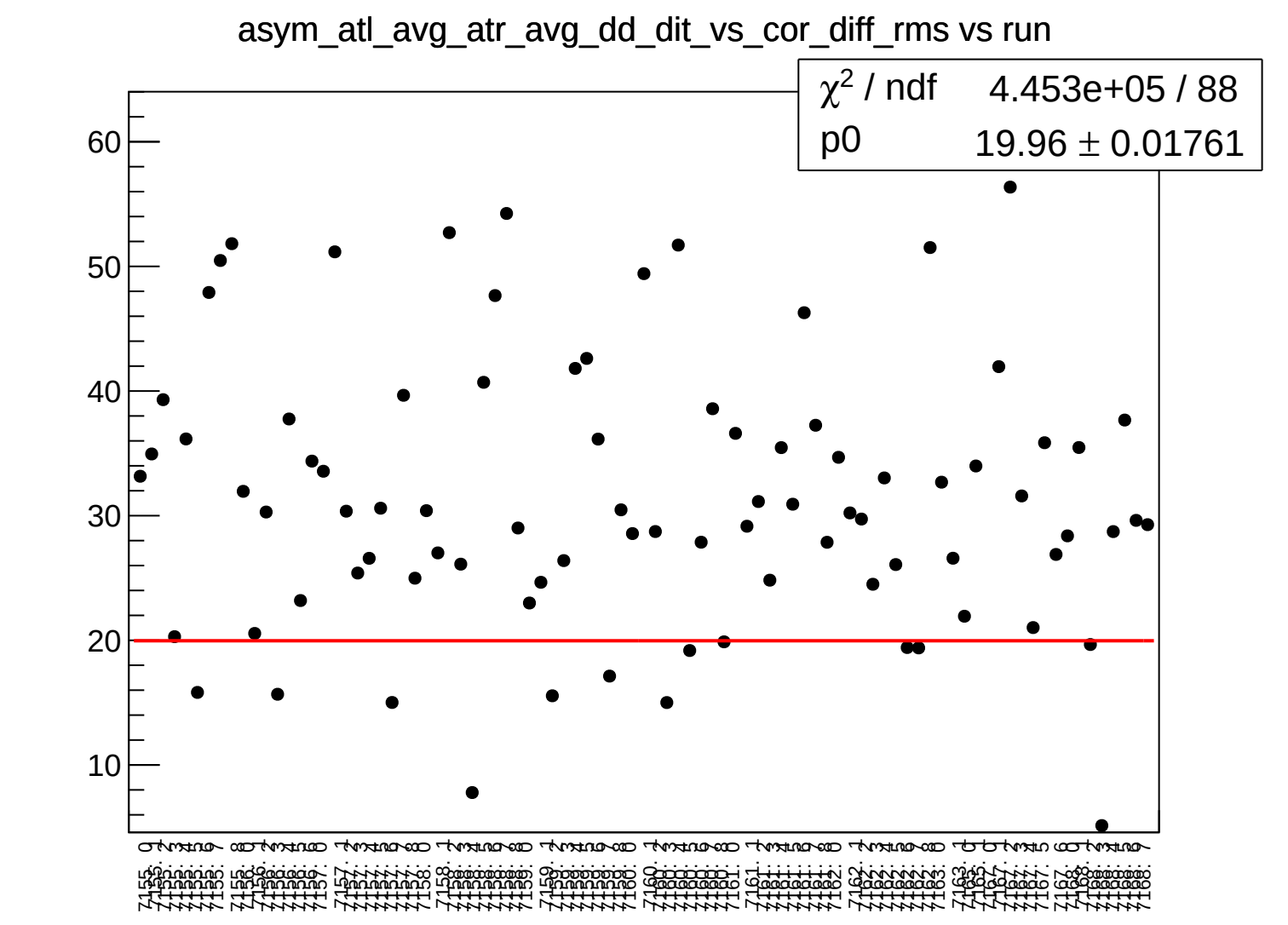

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 164.3 / 88
p0 1294 ± 0.9839
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

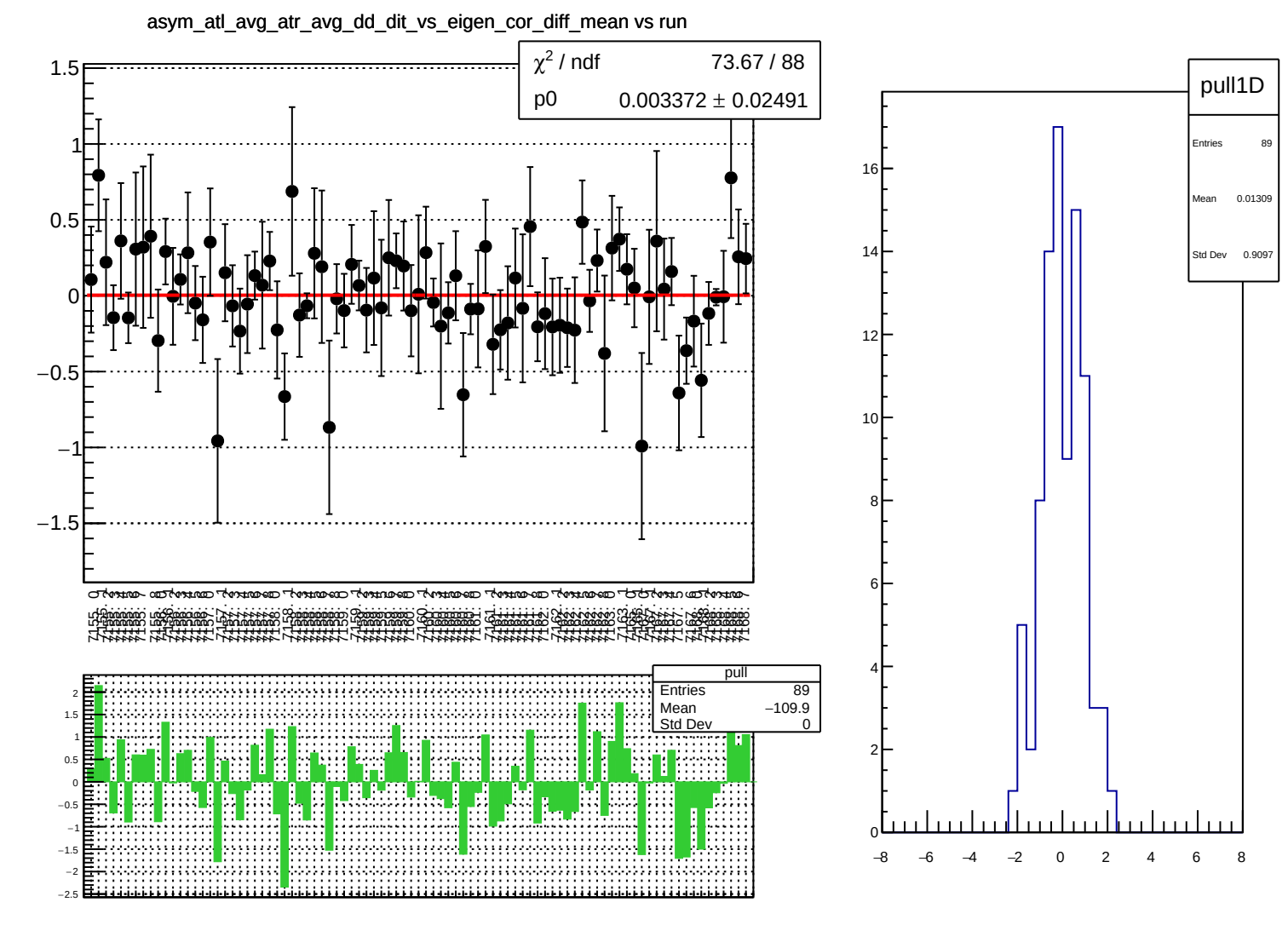

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 88
p0 −1.235e−14 ± 1.585e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 493
Std Dev 0
pull1D
Entries 89
Mean −0.01649
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

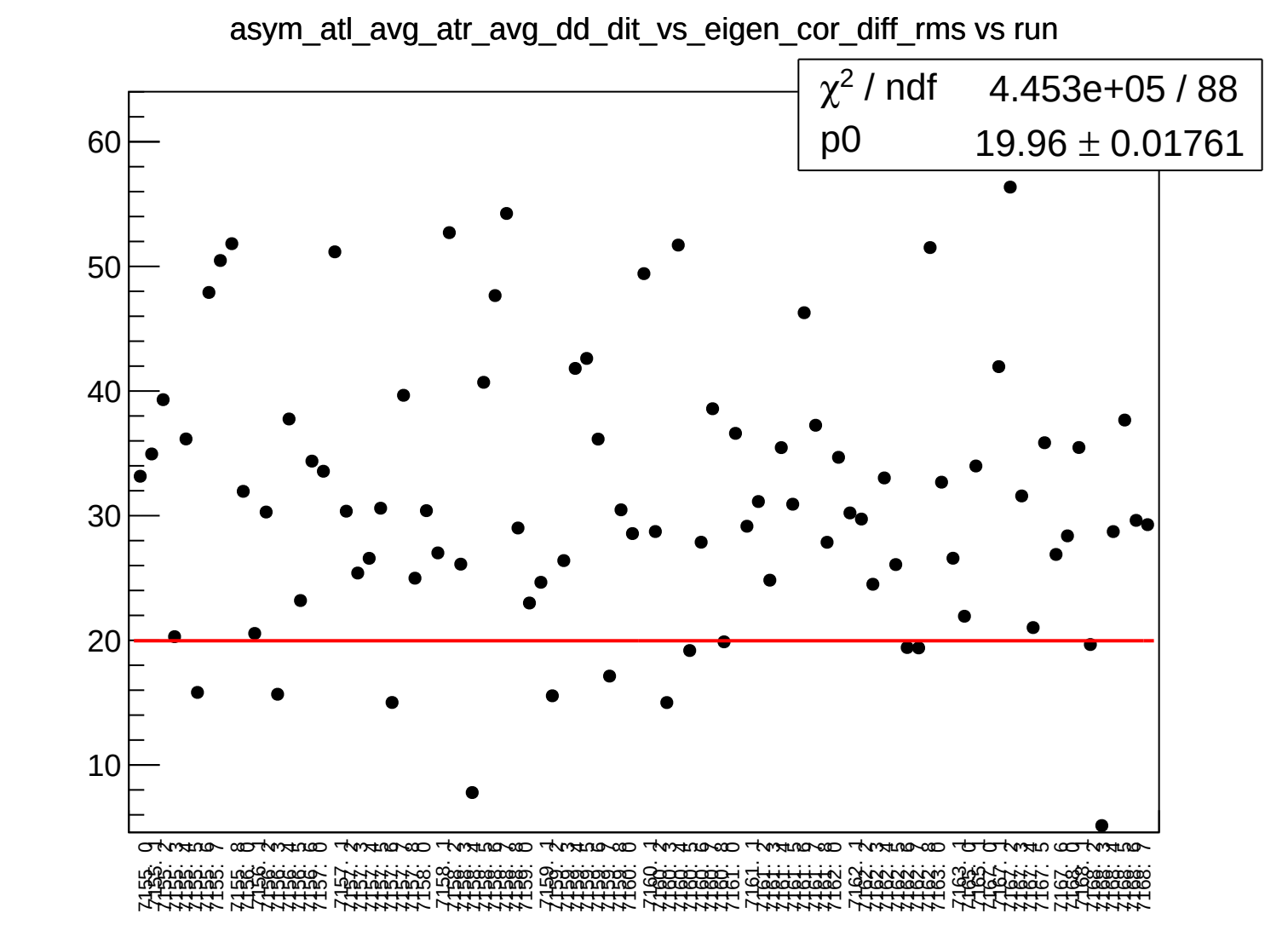

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 88
p0 9.103e−12 ± 1.121e−14
1
0.8
0.6
0.4
0.2
0

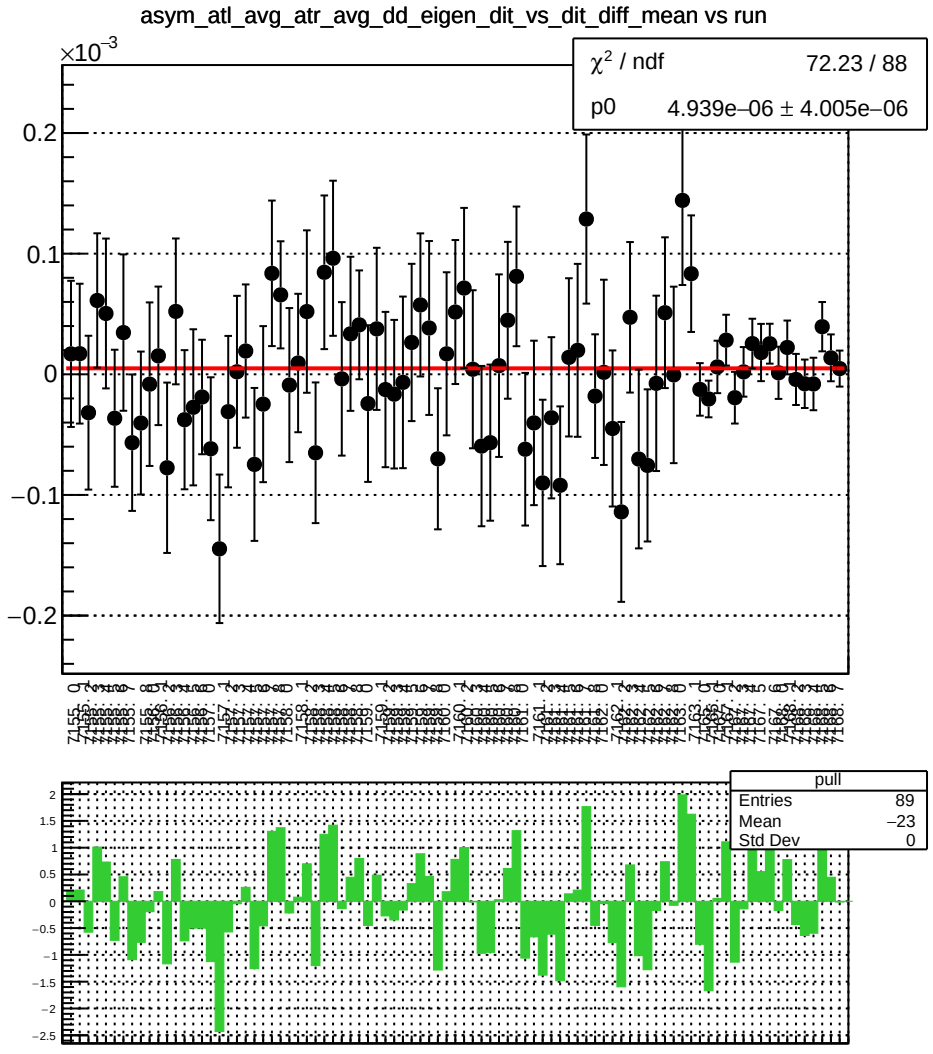

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003372 ± 0.02491
pull
Entries 89
Mean −109.9
Std Dev 0

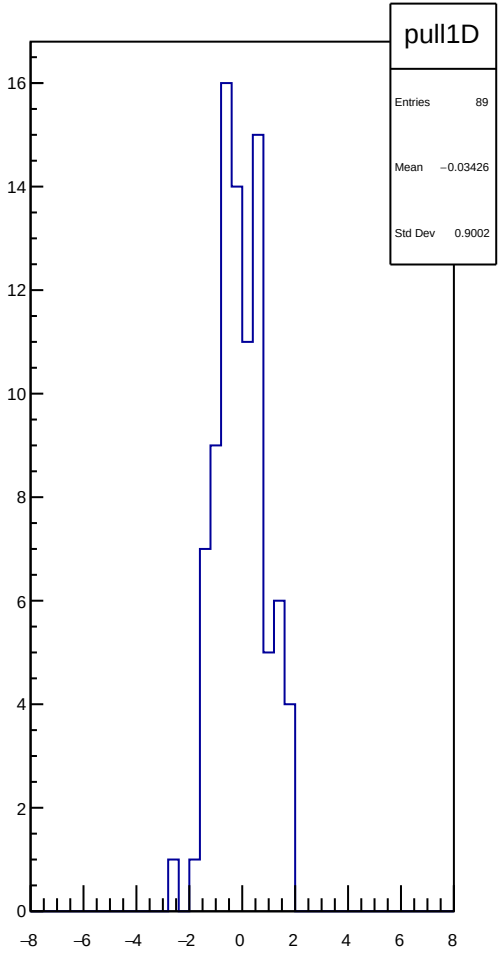

pull1D
Entries 89
Mean 0.01309
Std Dev 0.9097

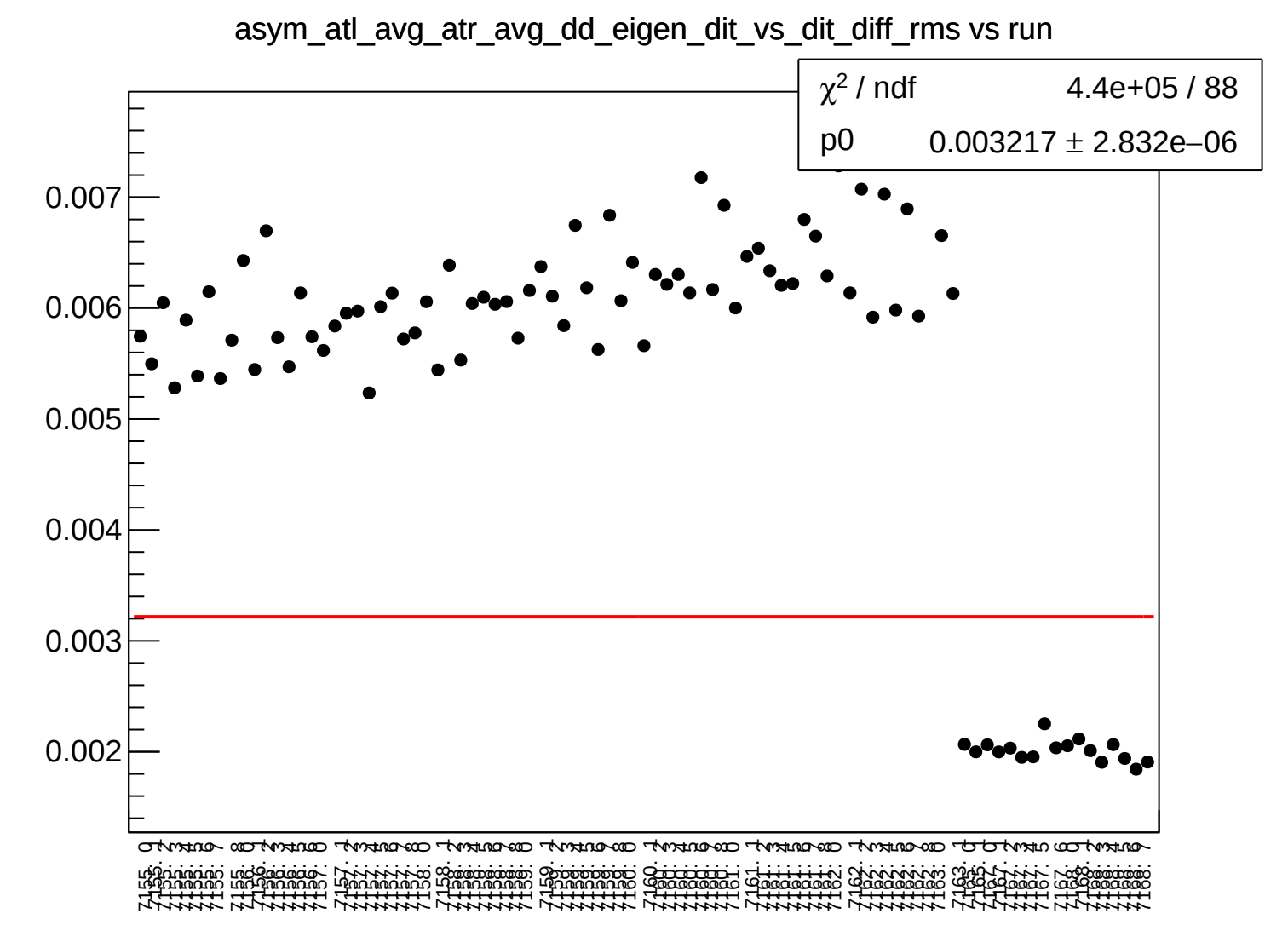

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

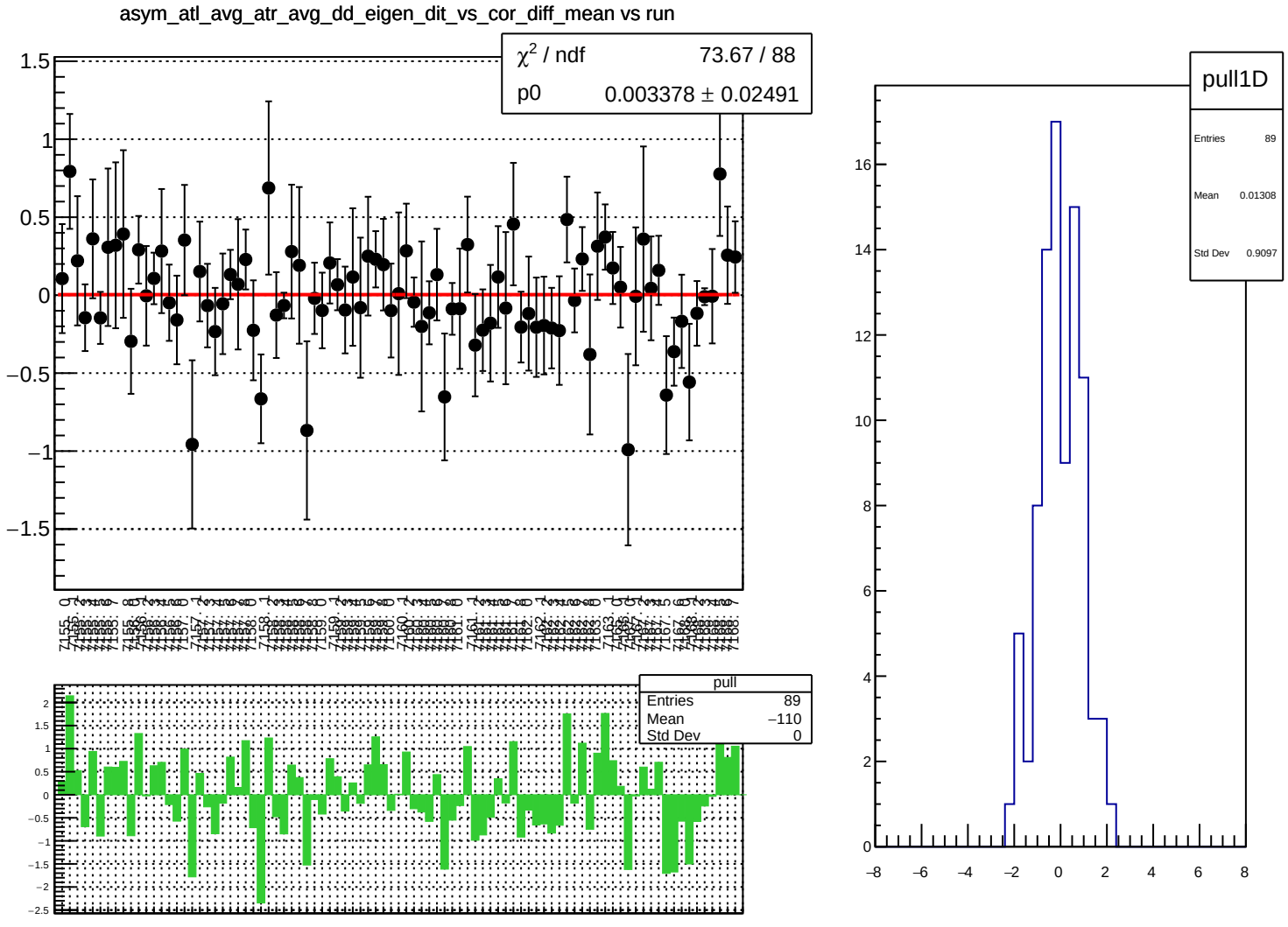

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003372 ± 0.02491
pull
Entries 89
Mean −109.9
Std Dev 0
pull1D
Entries 89
Mean 0.01309
Std Dev 0.9097

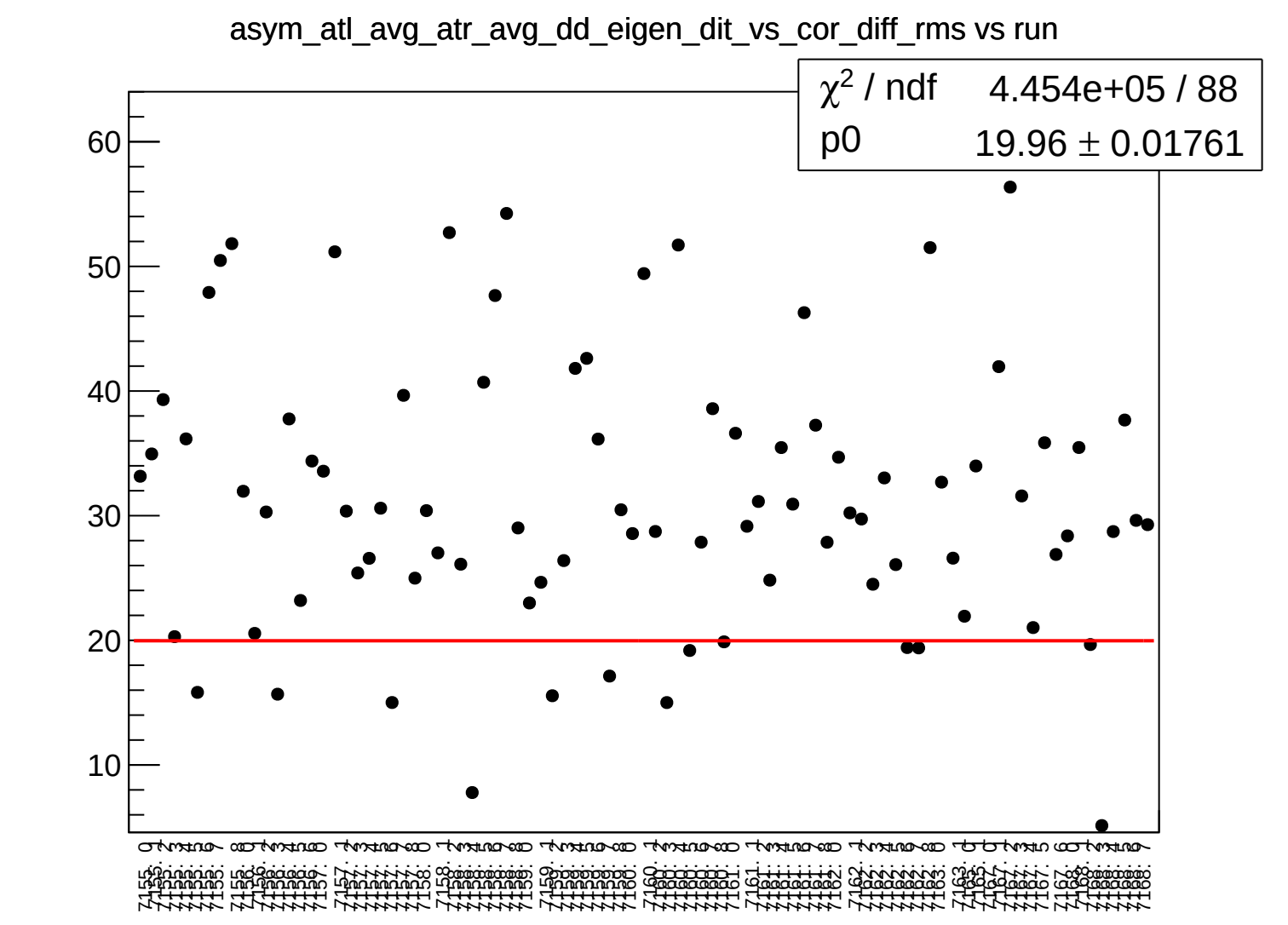

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

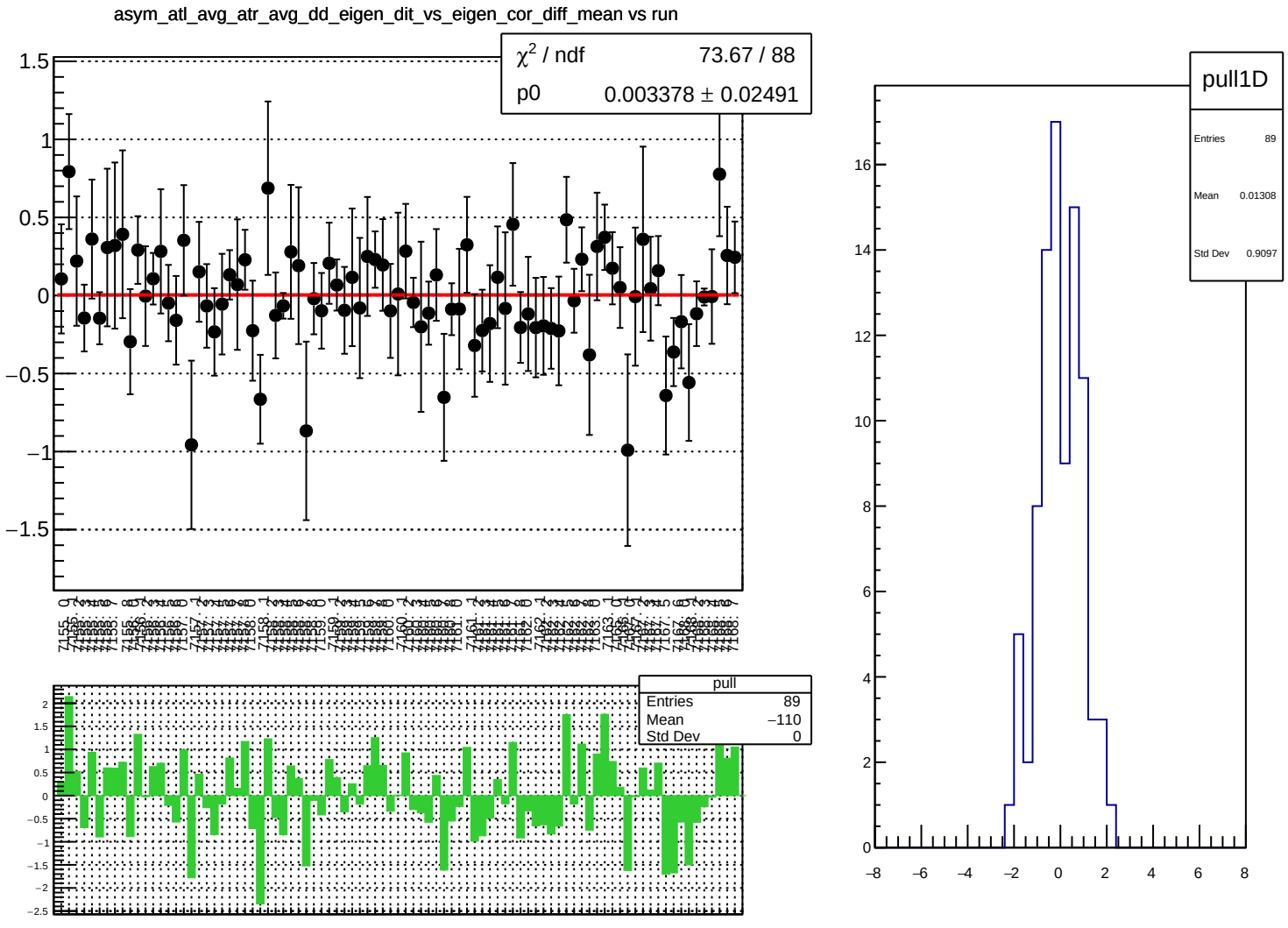

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.23 / 88
p0 4.939e−06 ± 4.005e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

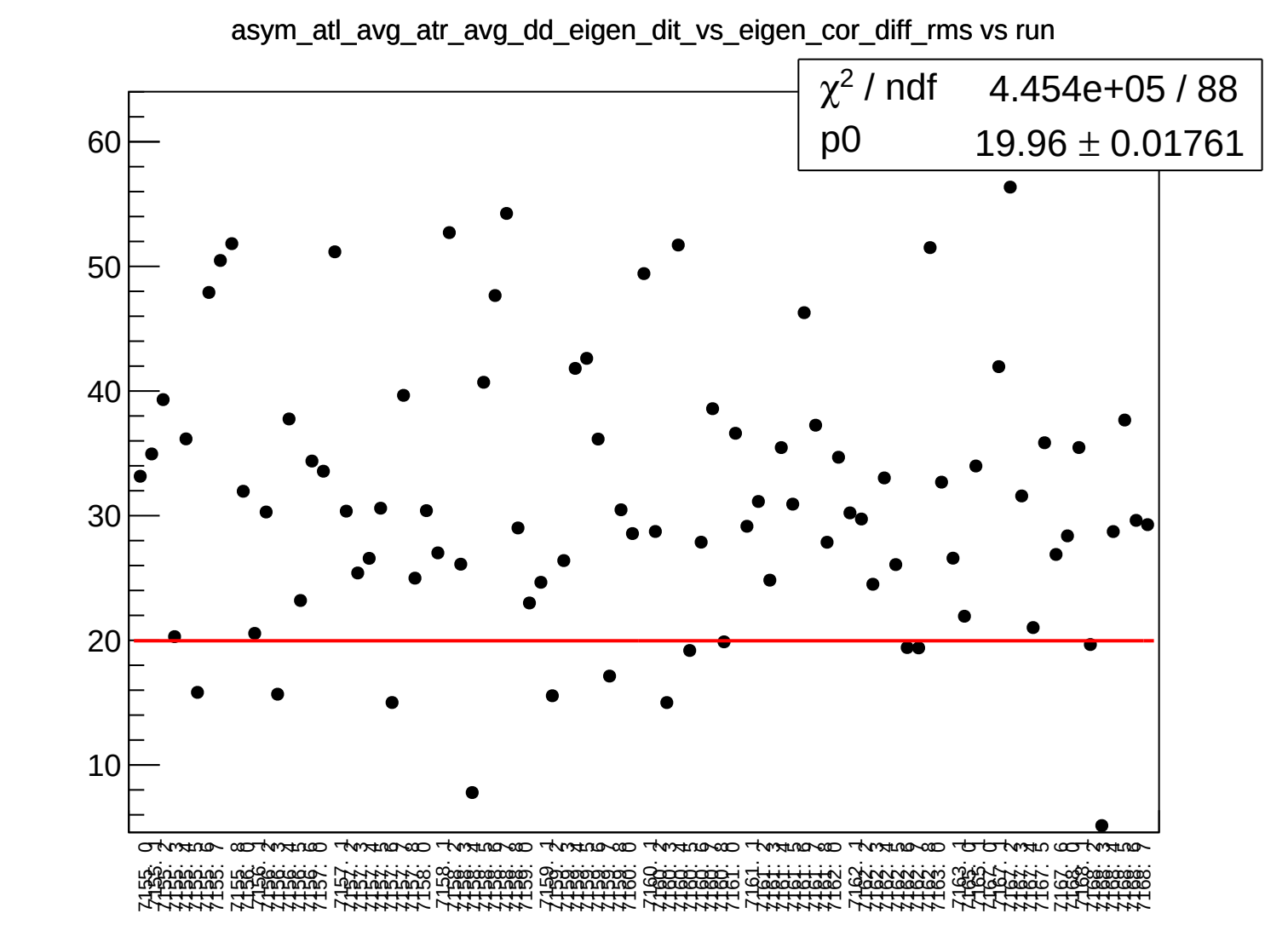

pull1D
Entries 89
Mean −0.03426
Std Dev 0.9002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

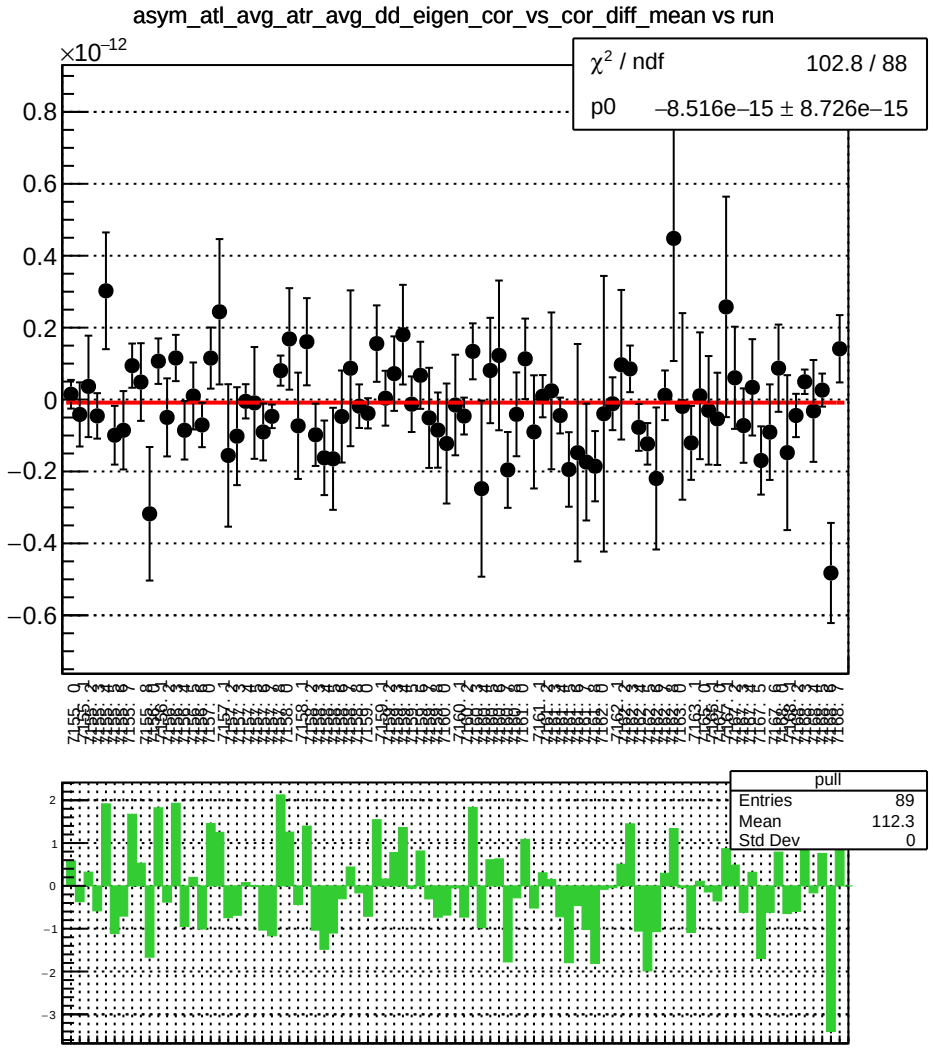

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.4e+05 / 88
p0 0.003217 ± 2.832e−06
0.007
0.006
0.005
0.004
0.003
0.002

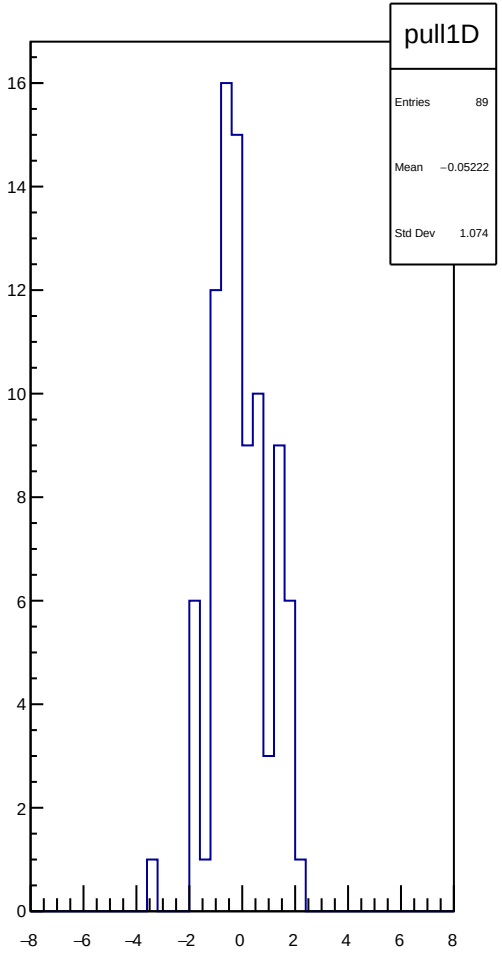

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003378 ± 0.02491
pull
Entries 89
Mean −110
Std Dev 0
pull1D
Entries 89
Mean 0.01308
Std Dev 0.9097

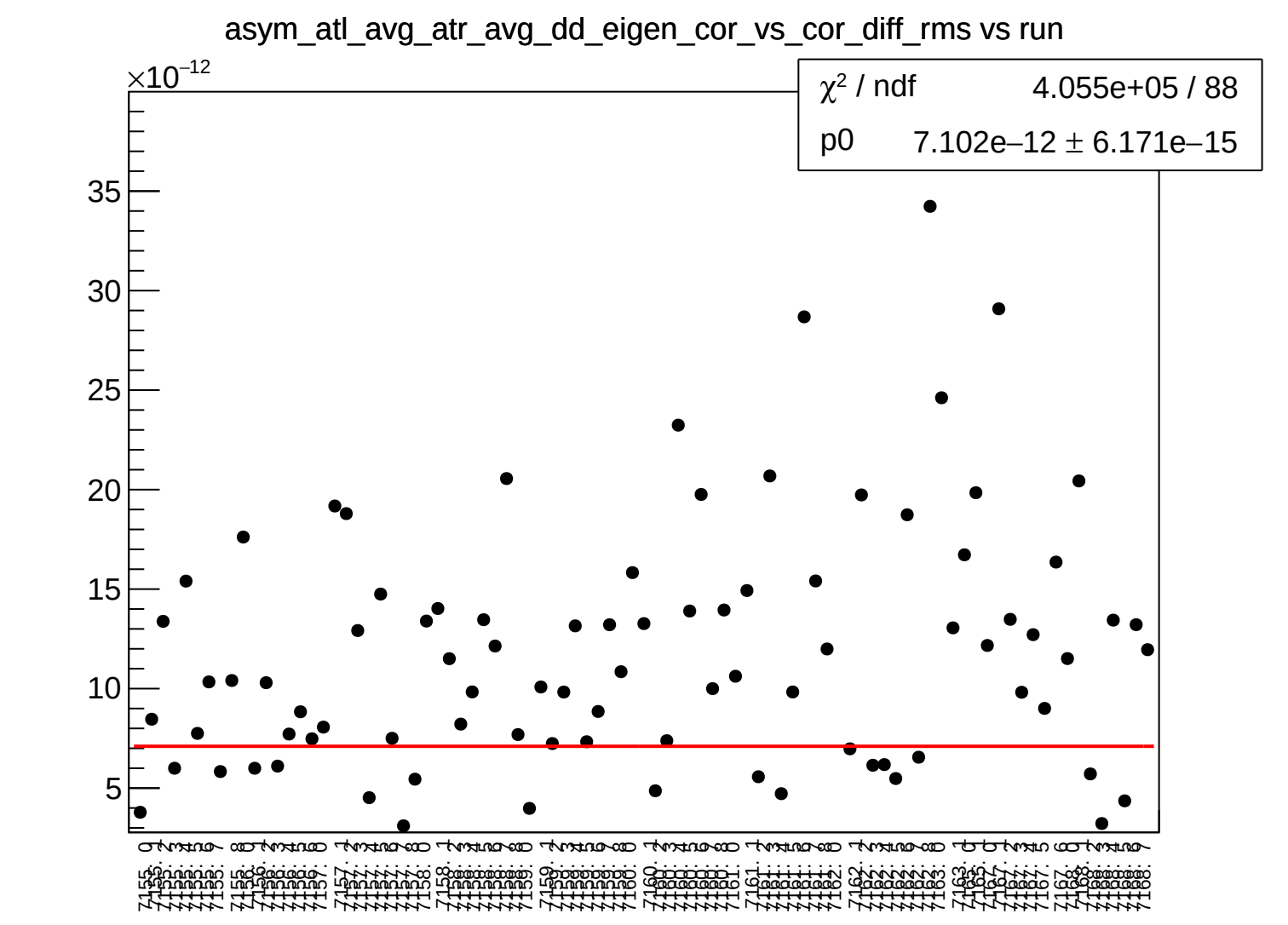

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

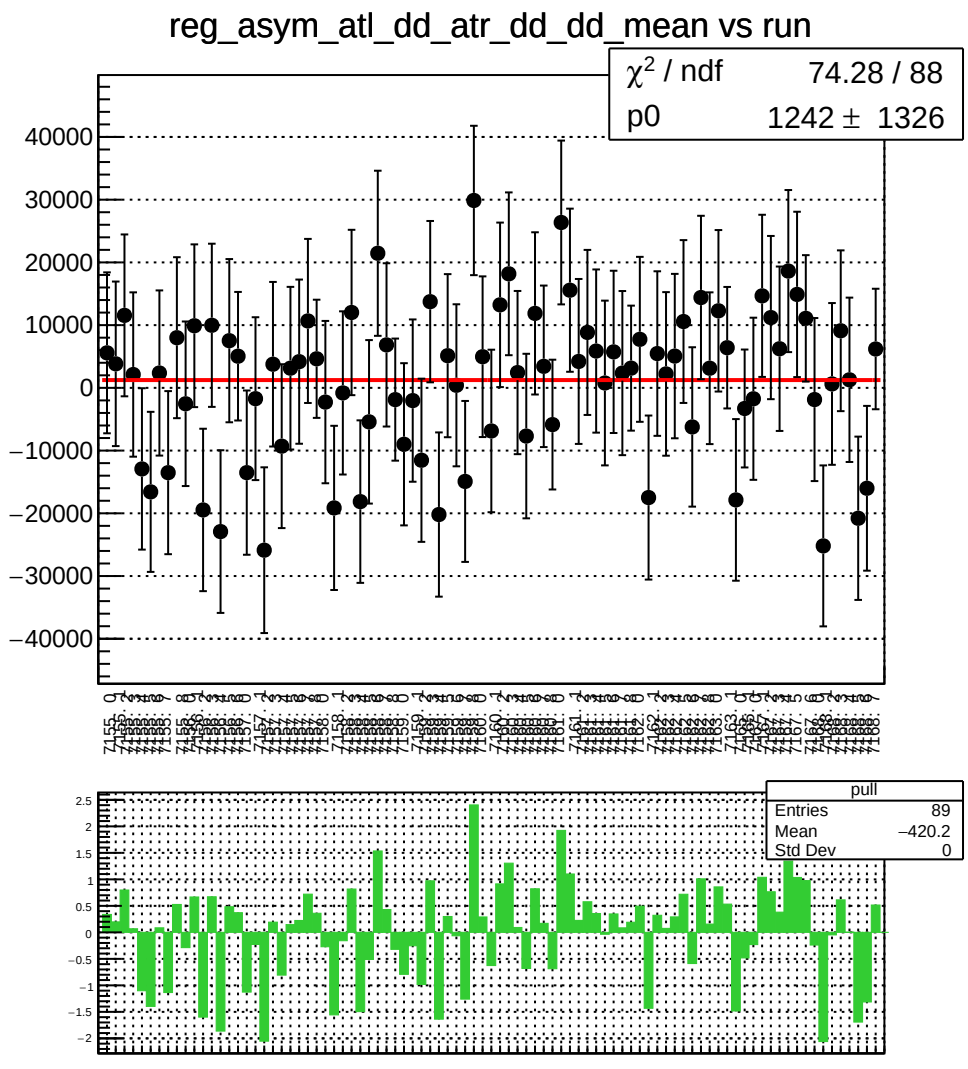

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003378 ± 0.02491
pull
Entries 89
Mean −110
Std Dev 0
pull1D
Entries 89
Mean 0.01308
Std Dev 0.9097

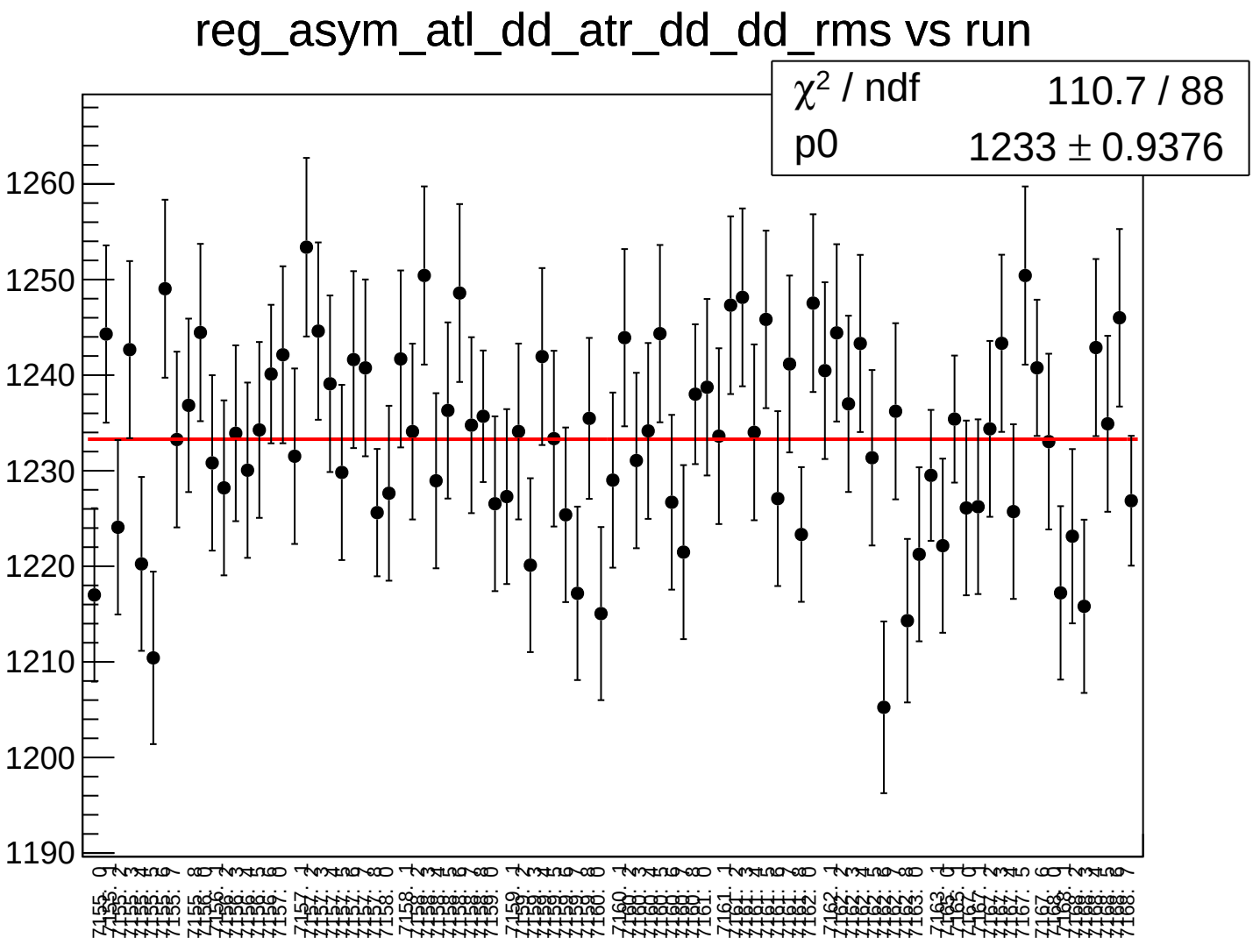

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

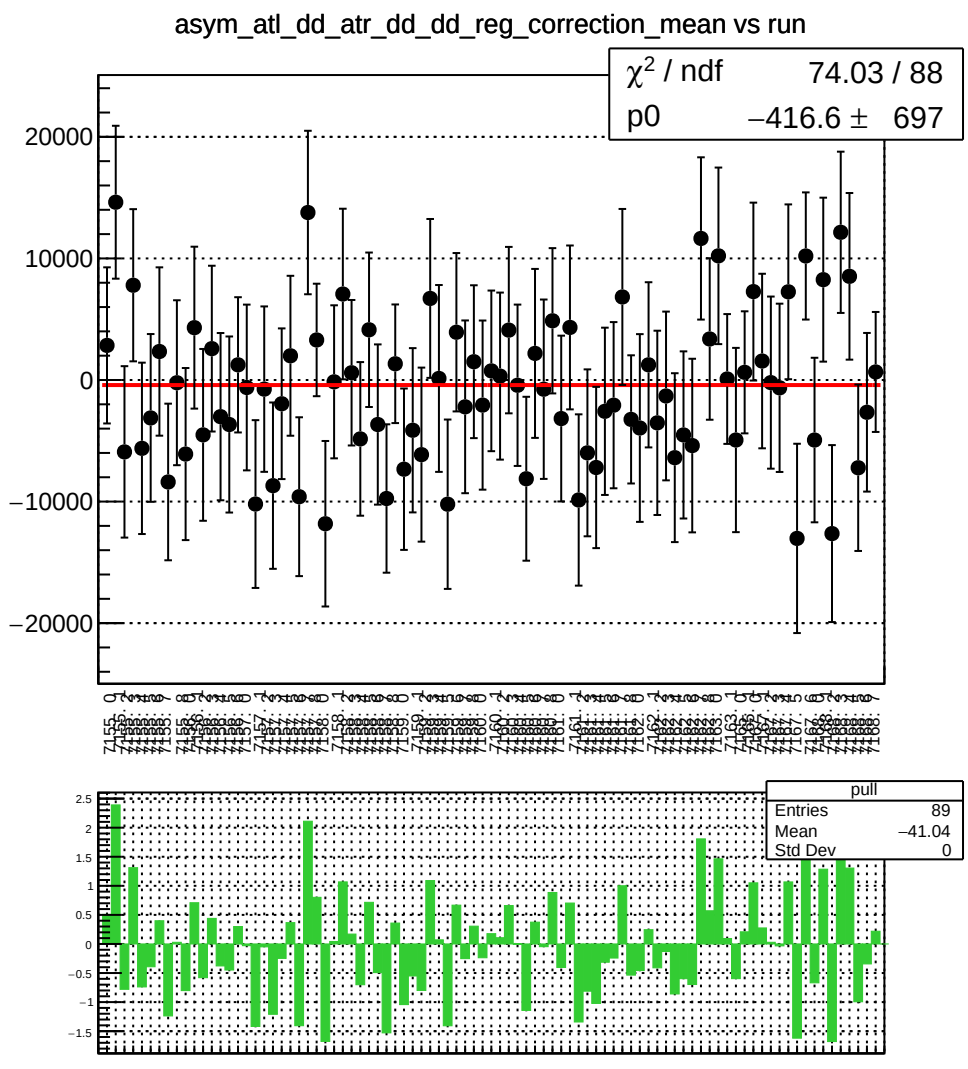

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.8 / 88
p0 −8.516e−15 ± 8.726e−15
pull
Entries 89
Mean 112.3
Std Dev 0

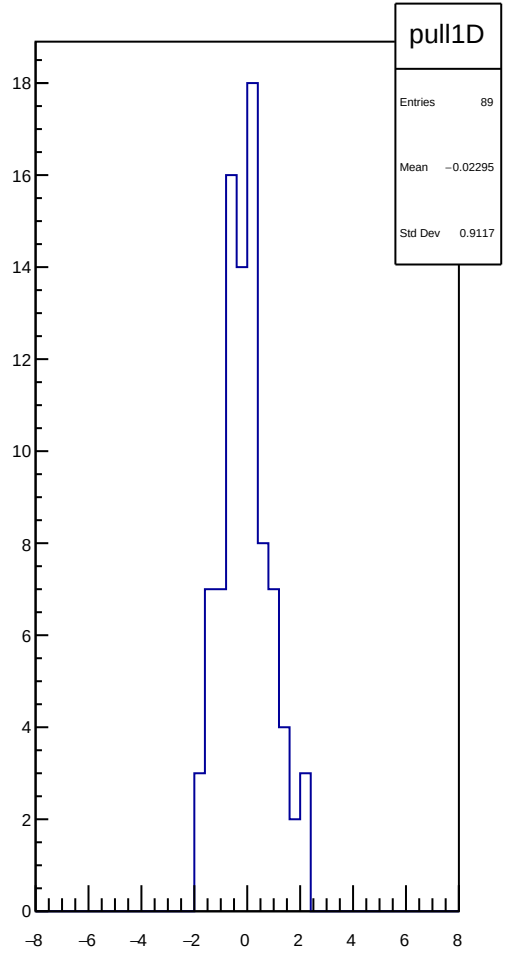

pull1D
Entries 89
Mean −0.05222
Std Dev 1.074

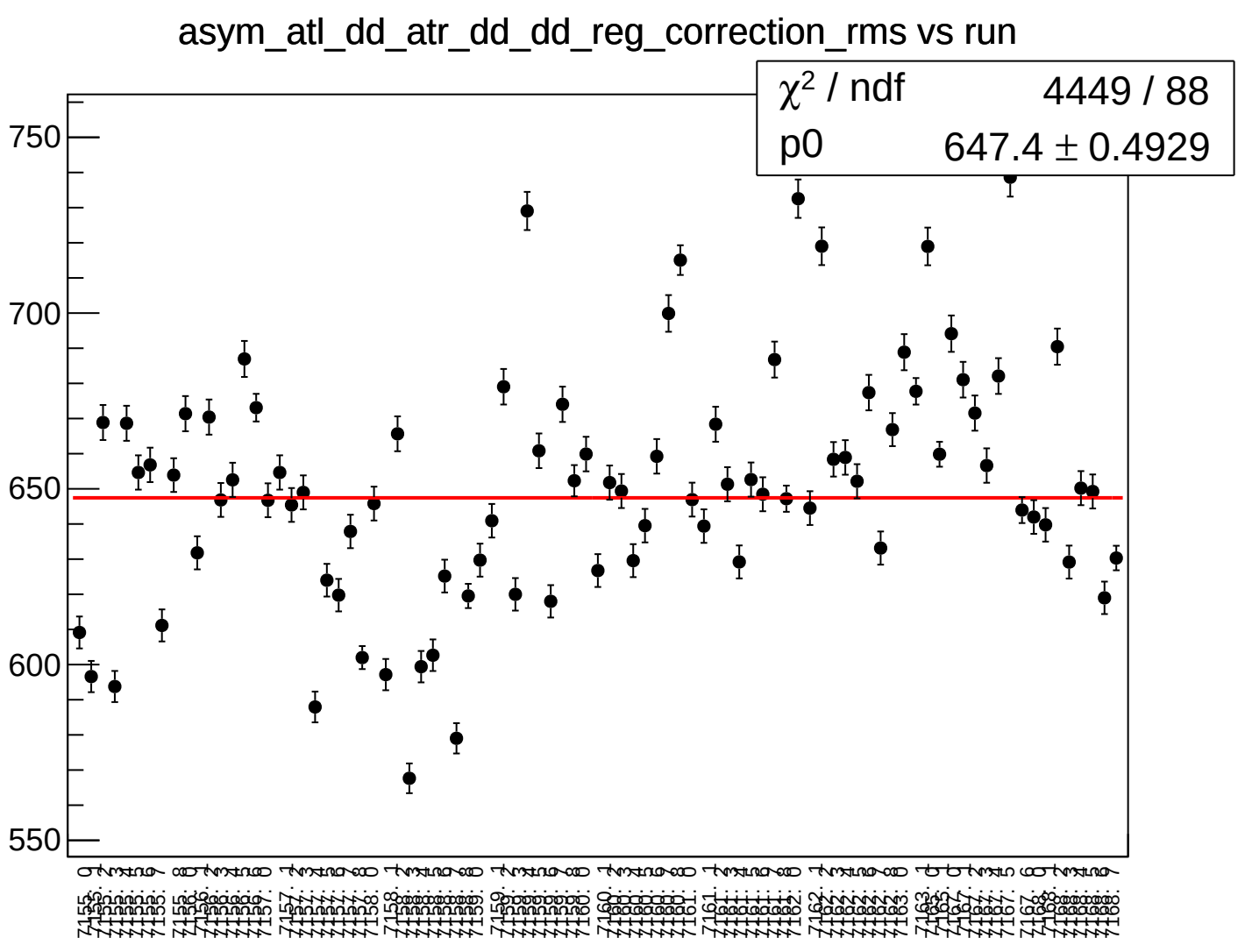

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.055e+05 / 88
p0 7.102e−12 ± 6.171e−15
35
30
25
20
15
10
5

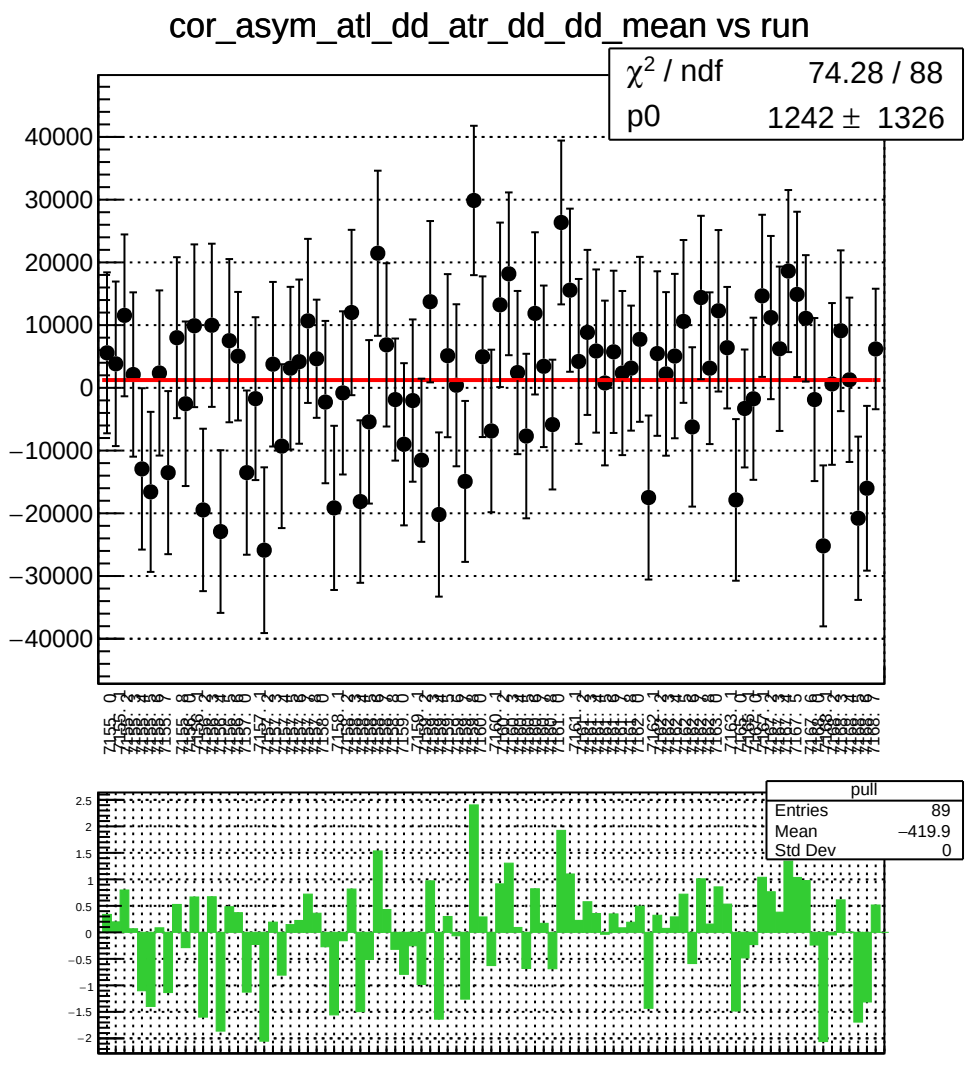

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
pull
Entries 89
Mean −420.2
Std Dev 0
pull1D
Entries 89
Mean −0.00727
Std Dev 0.9135

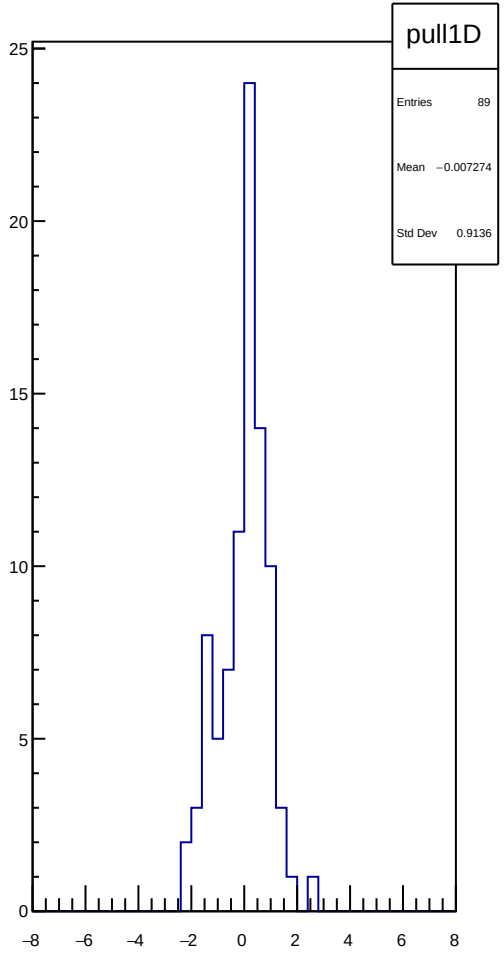

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

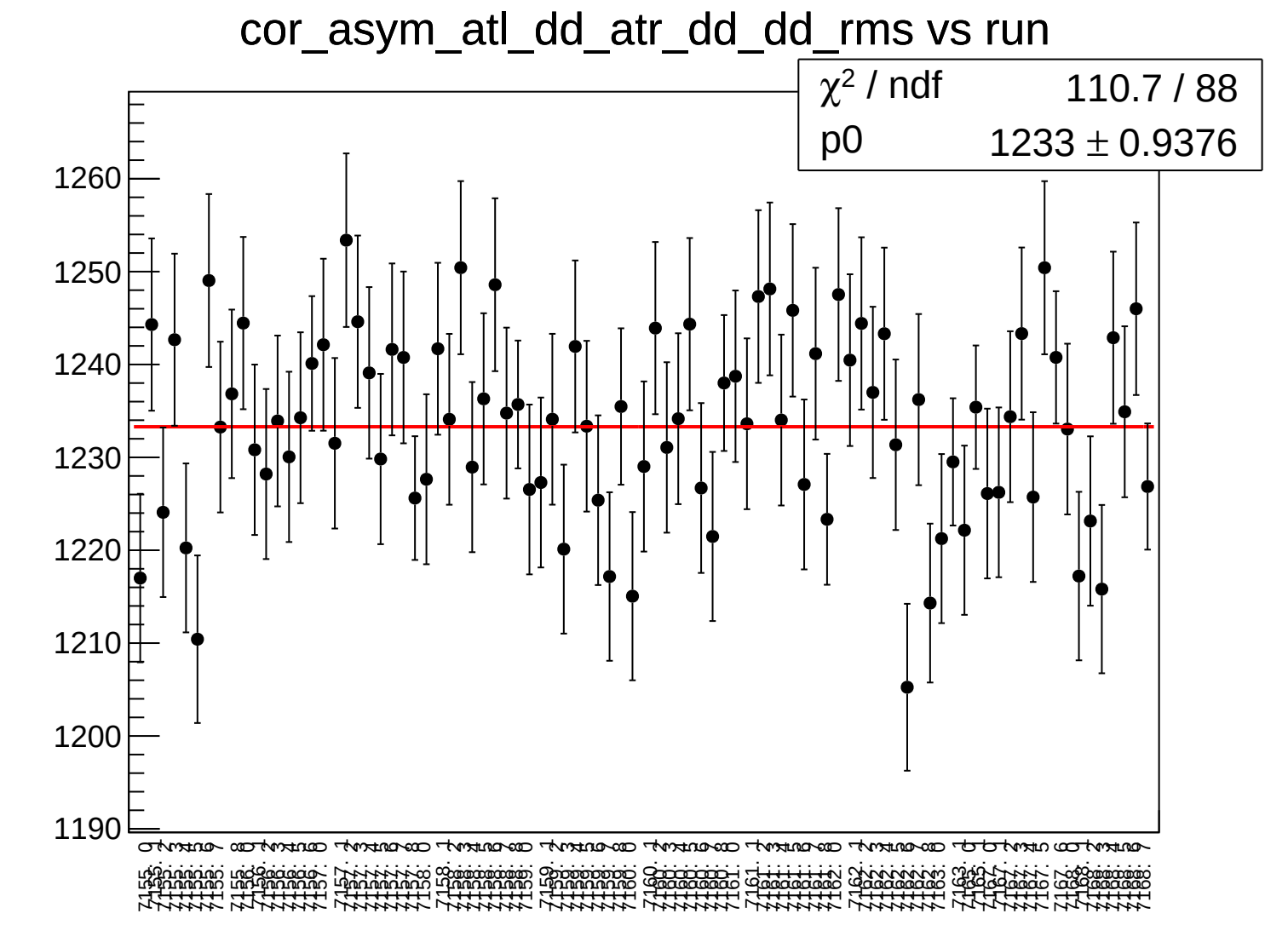

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.6 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

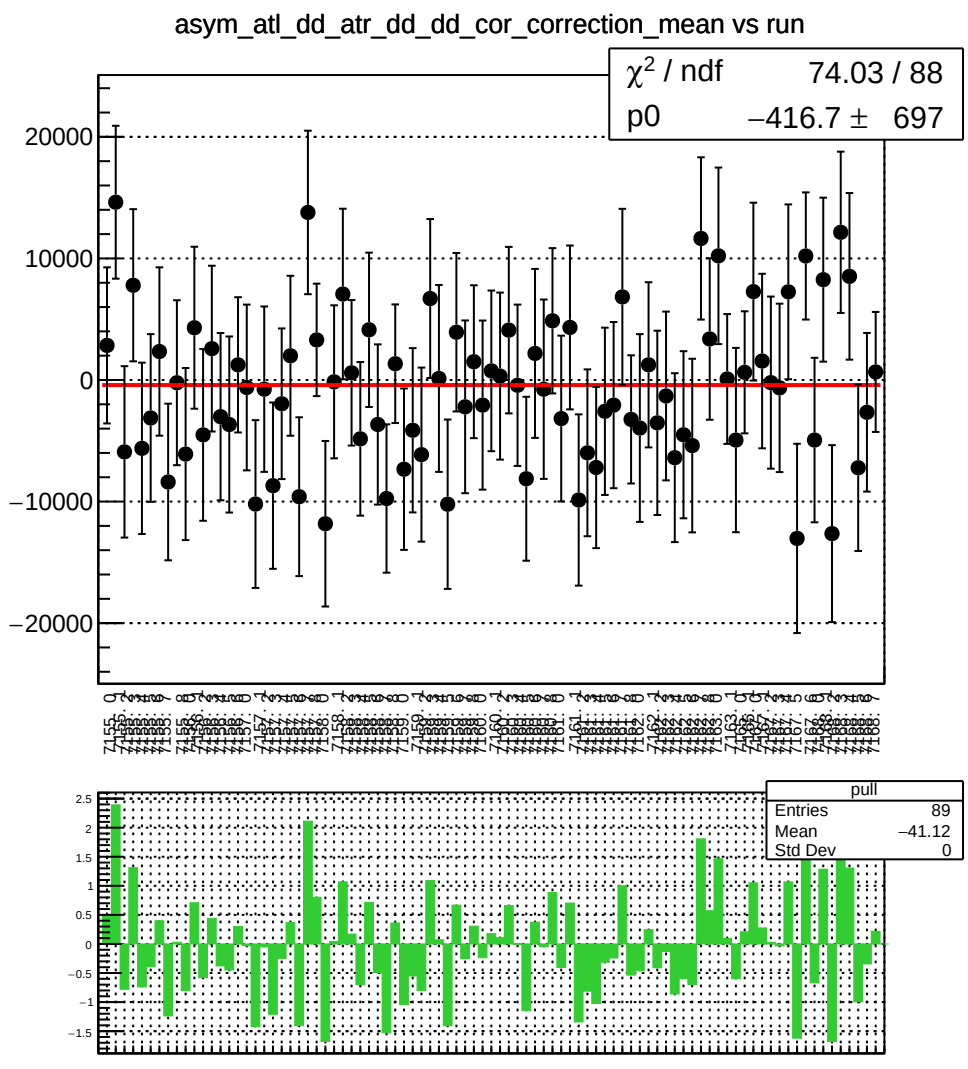

pull1D
Entries 89
Mean −0.02295
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

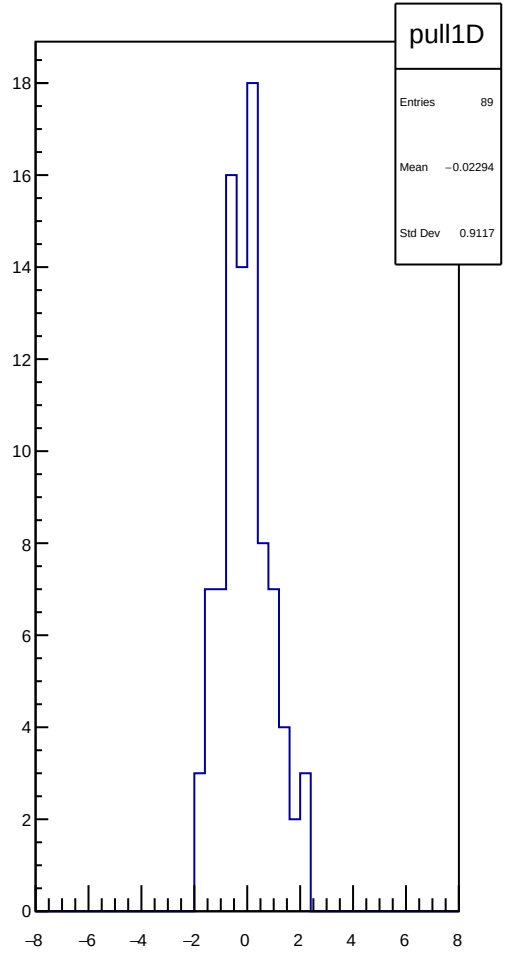

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 4449 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

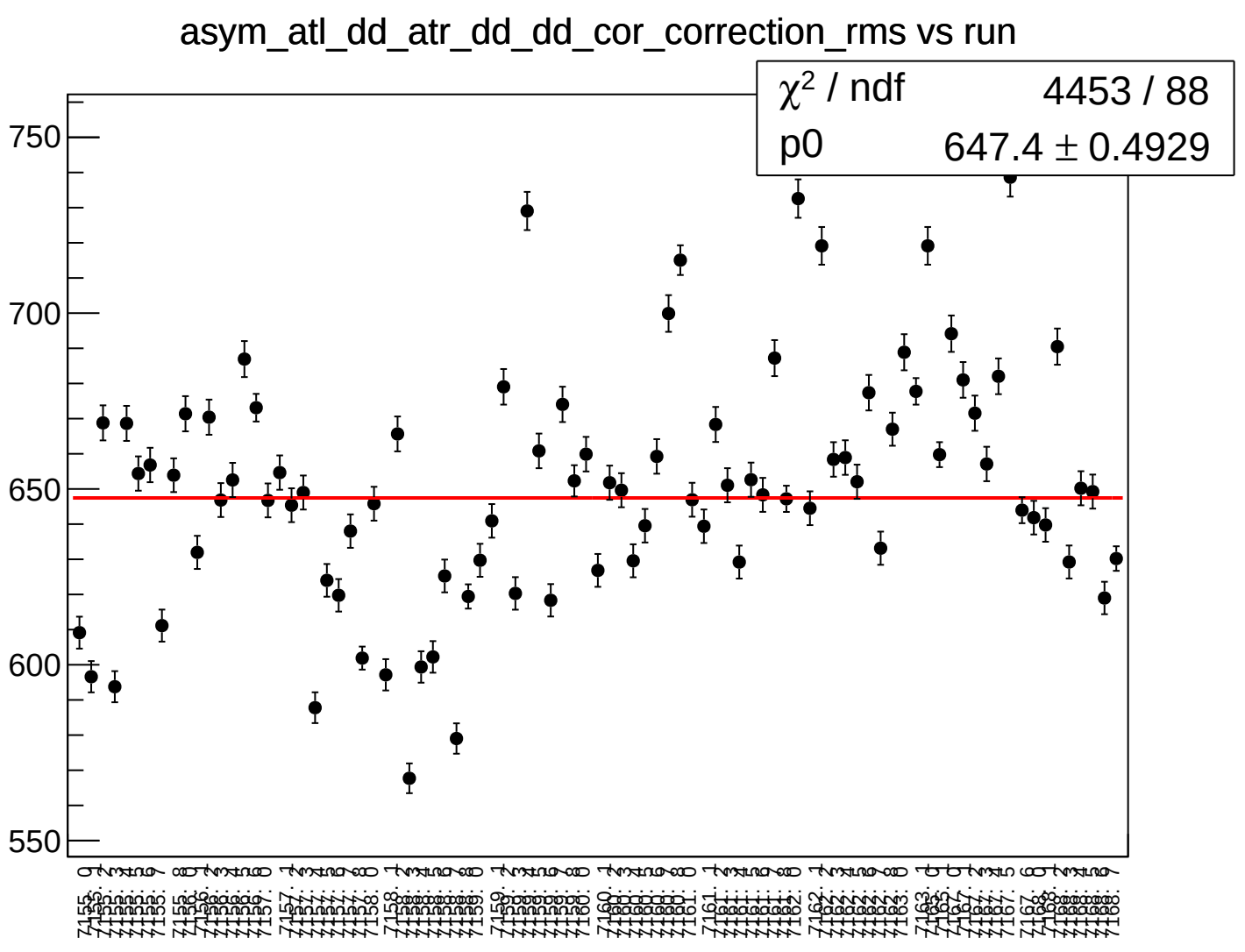

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
pull
Entries 89
Mean −419.9
Std Dev 0

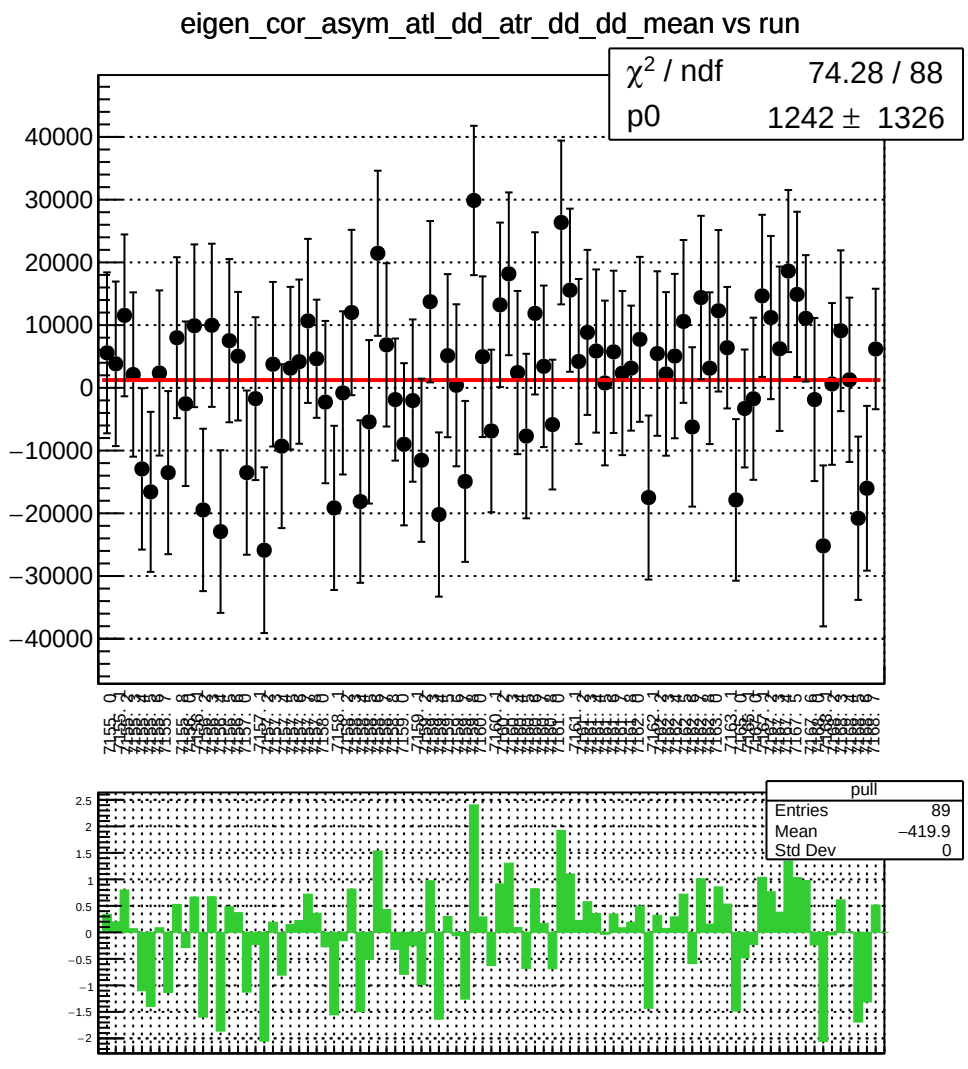

pull1D
Entries 89
Mean −0.007274
Std Dev 0.9136

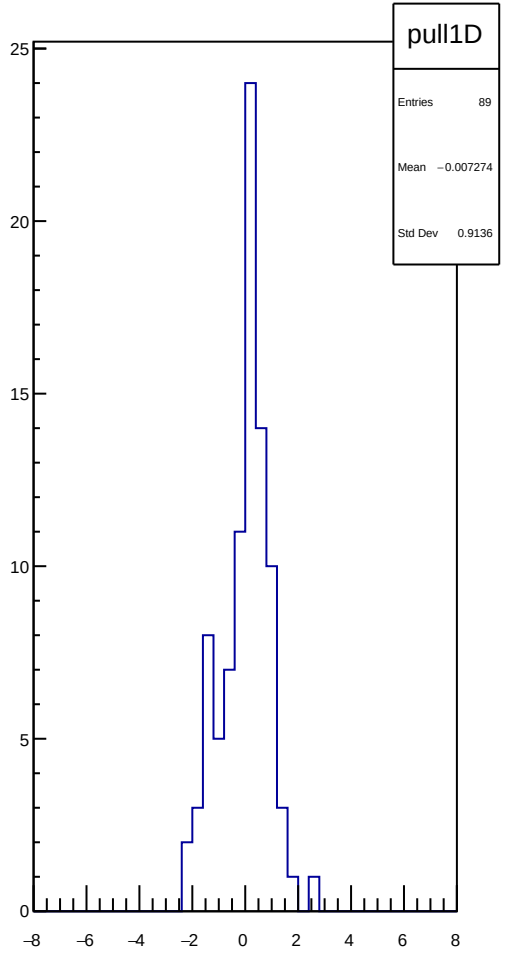

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

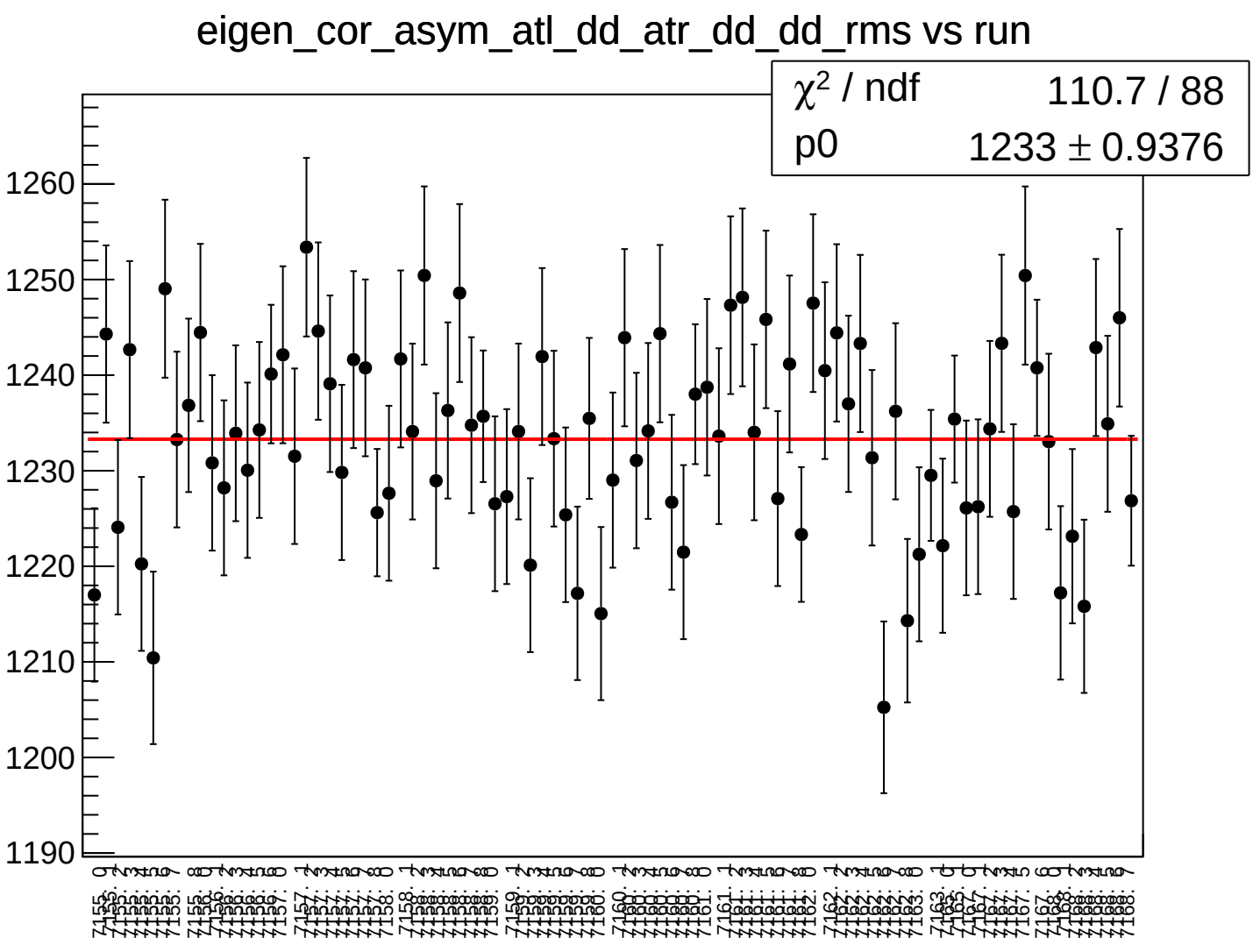

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.7 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

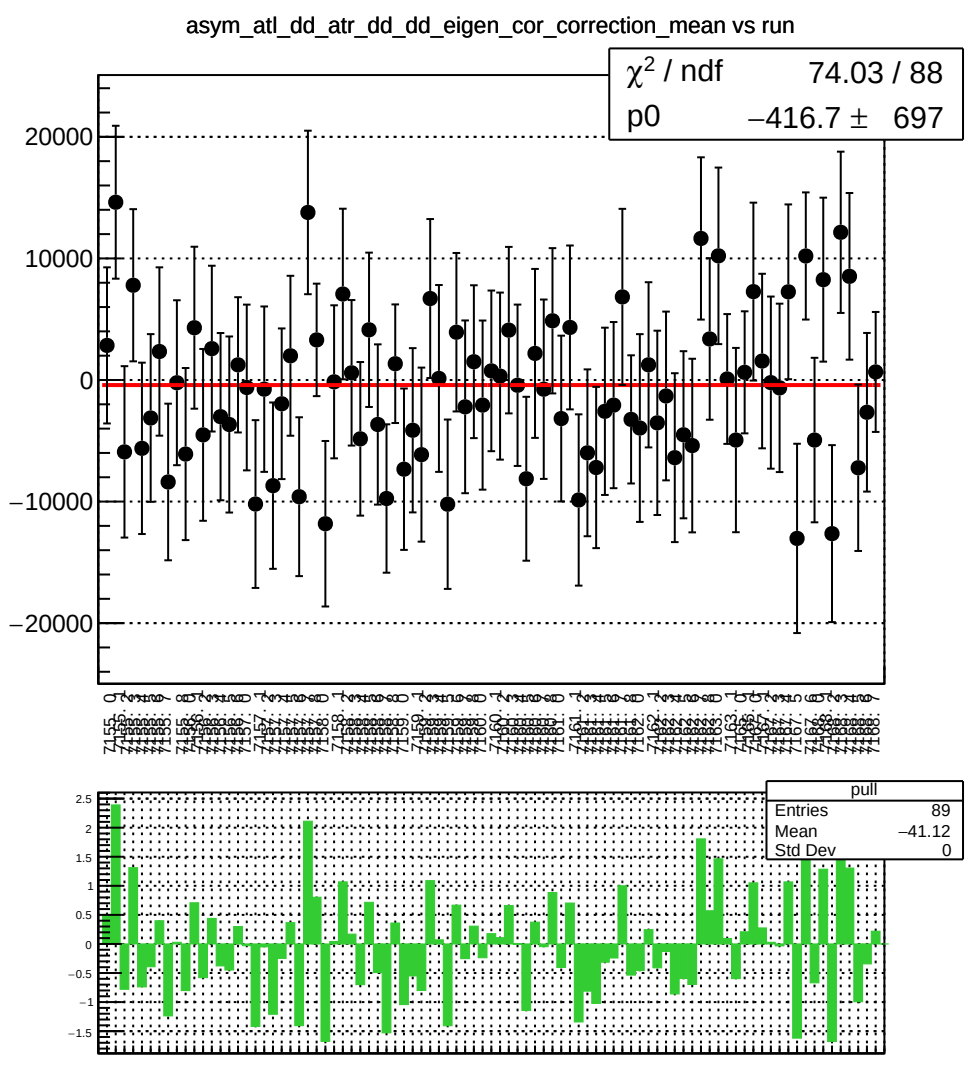

pull1D
Entries 89
Mean −0.02294
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

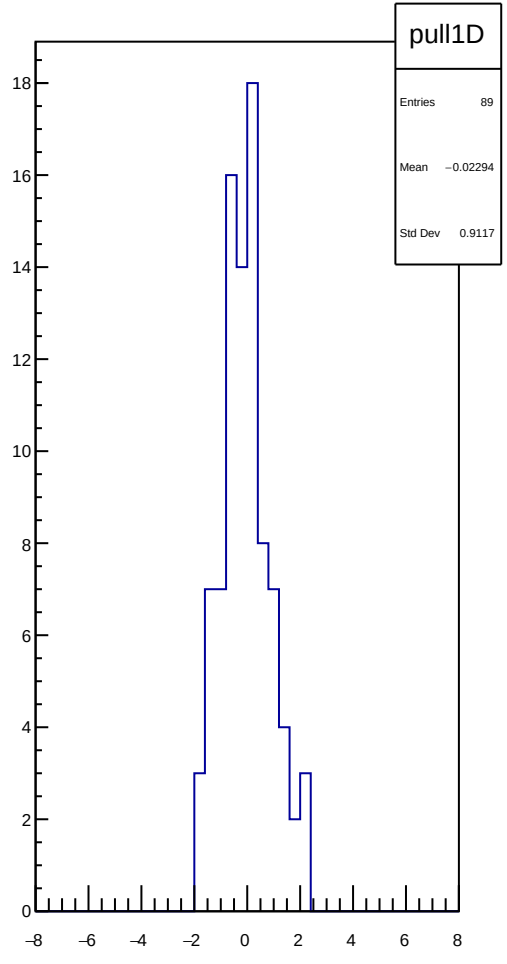

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 4453 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

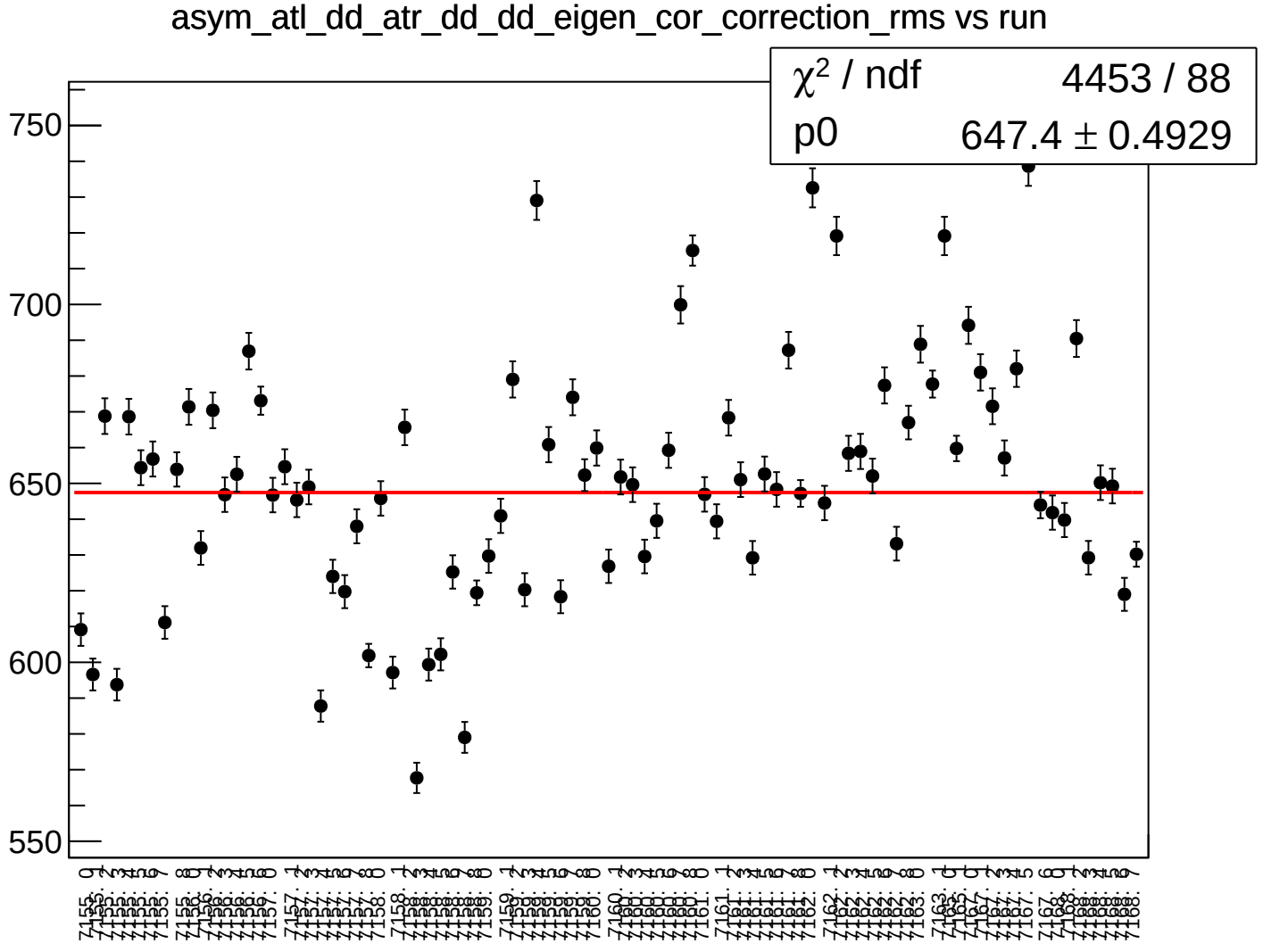

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −419.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

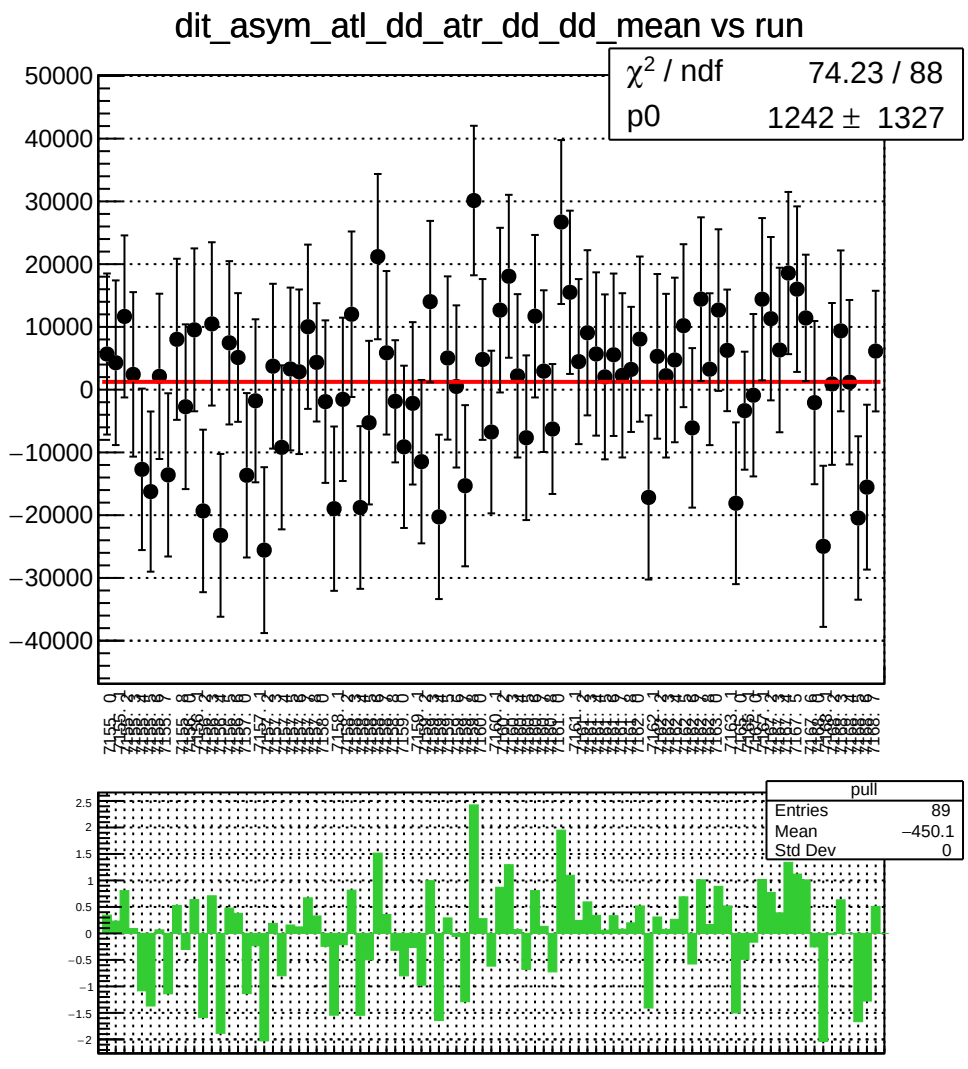

pull1D
Entries 89
Mean −0.007274
Std Dev 0.9136
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

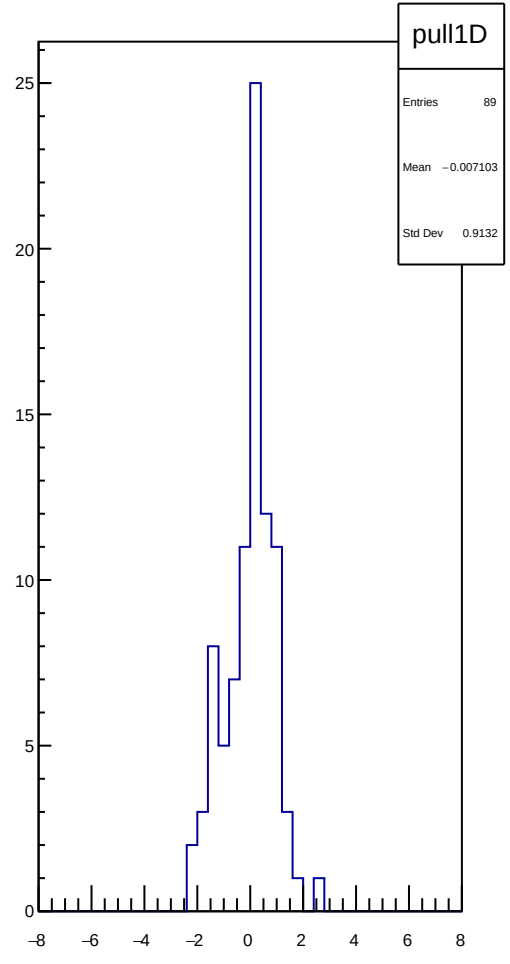

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

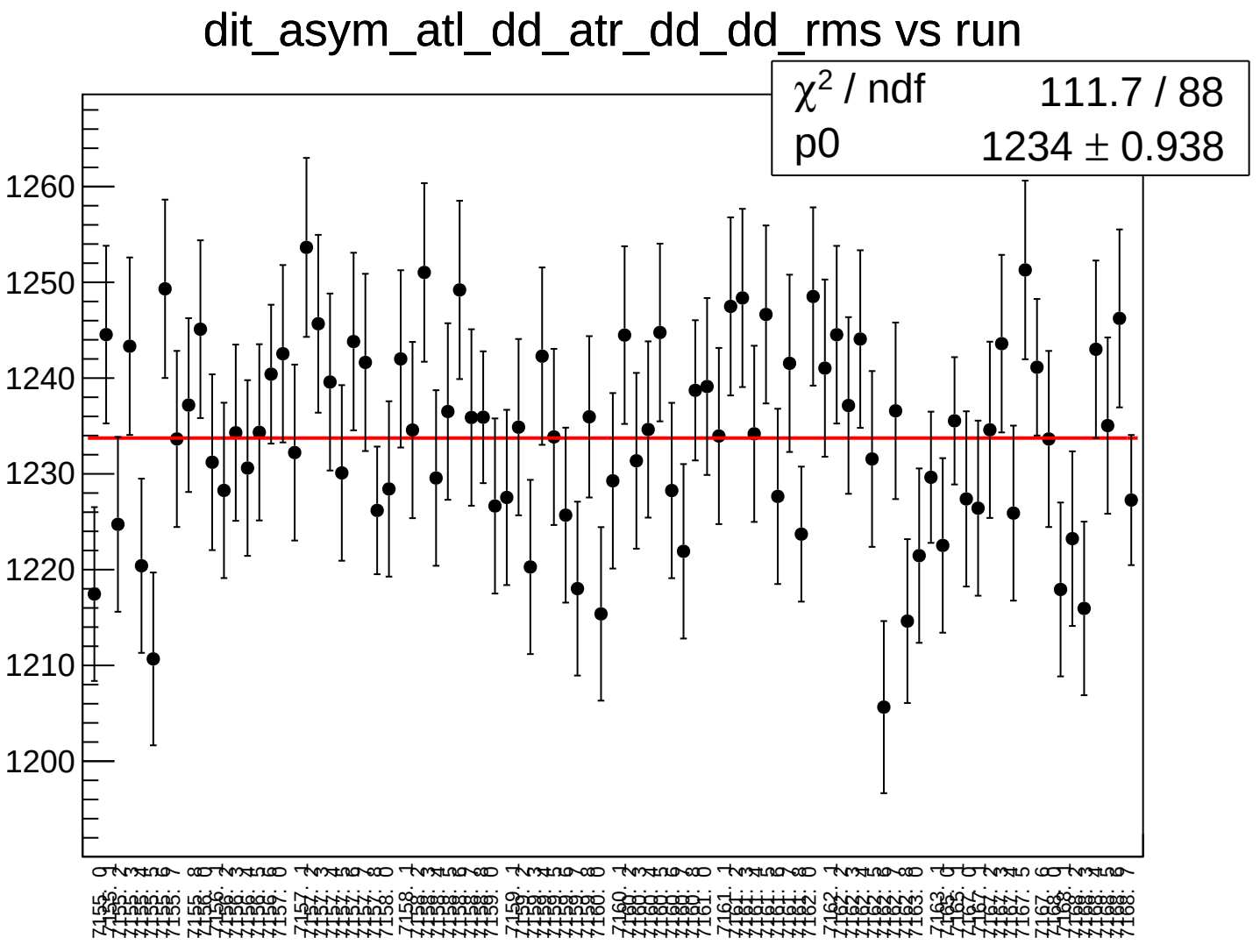

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.7 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

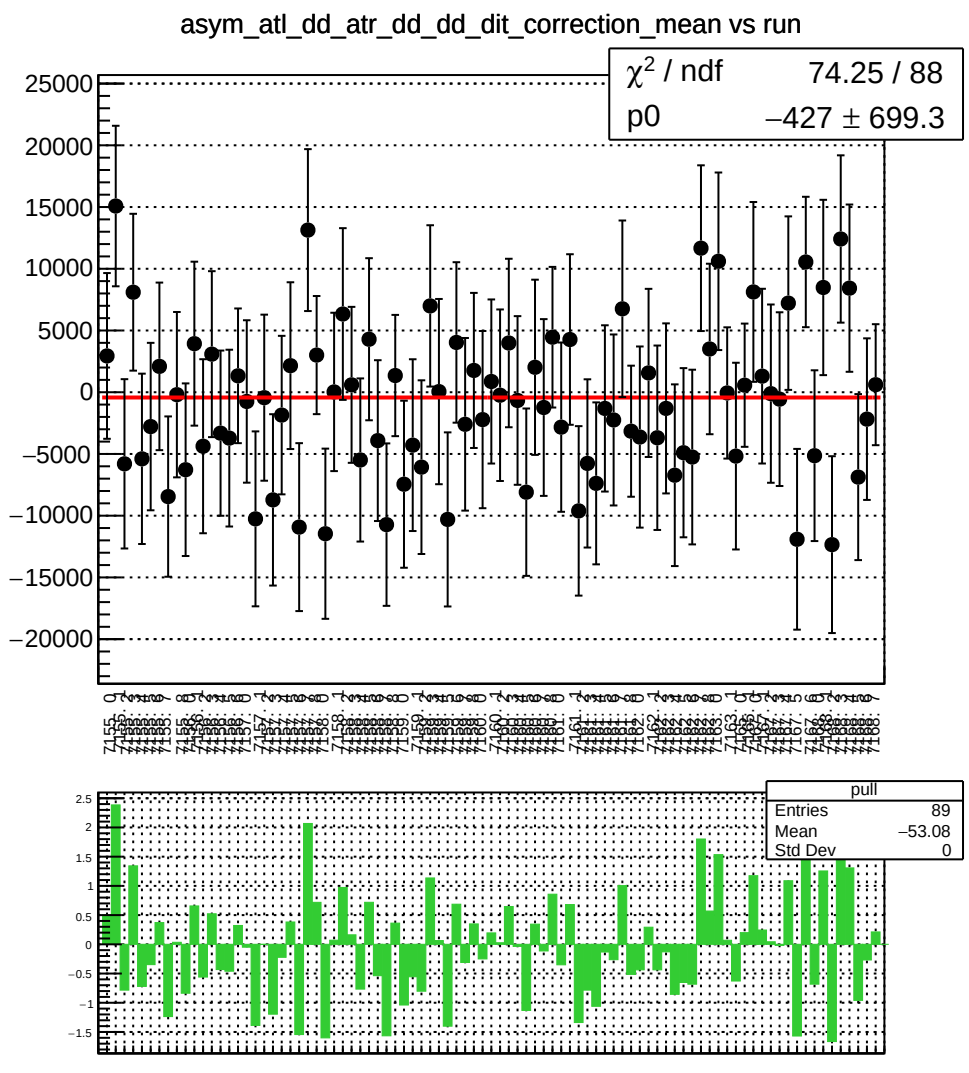

pull1D
Entries 89
Mean −0.02294
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

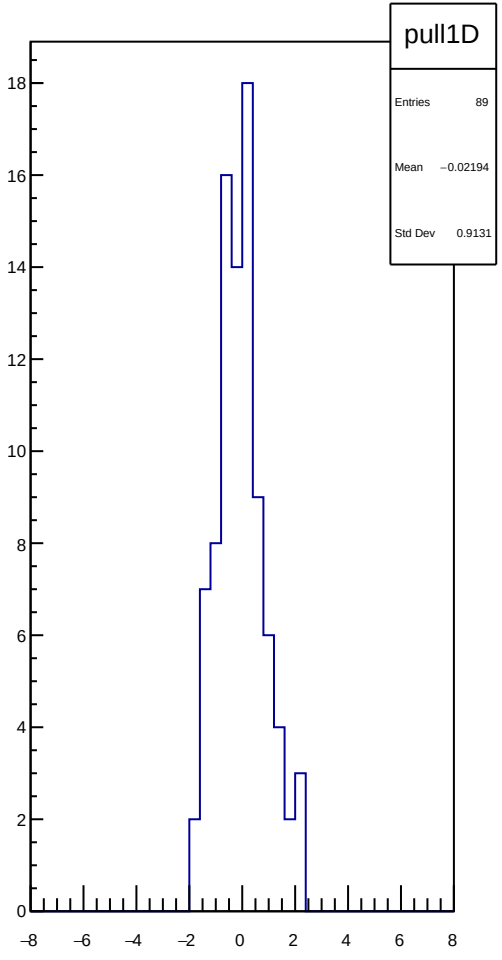

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 4453 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

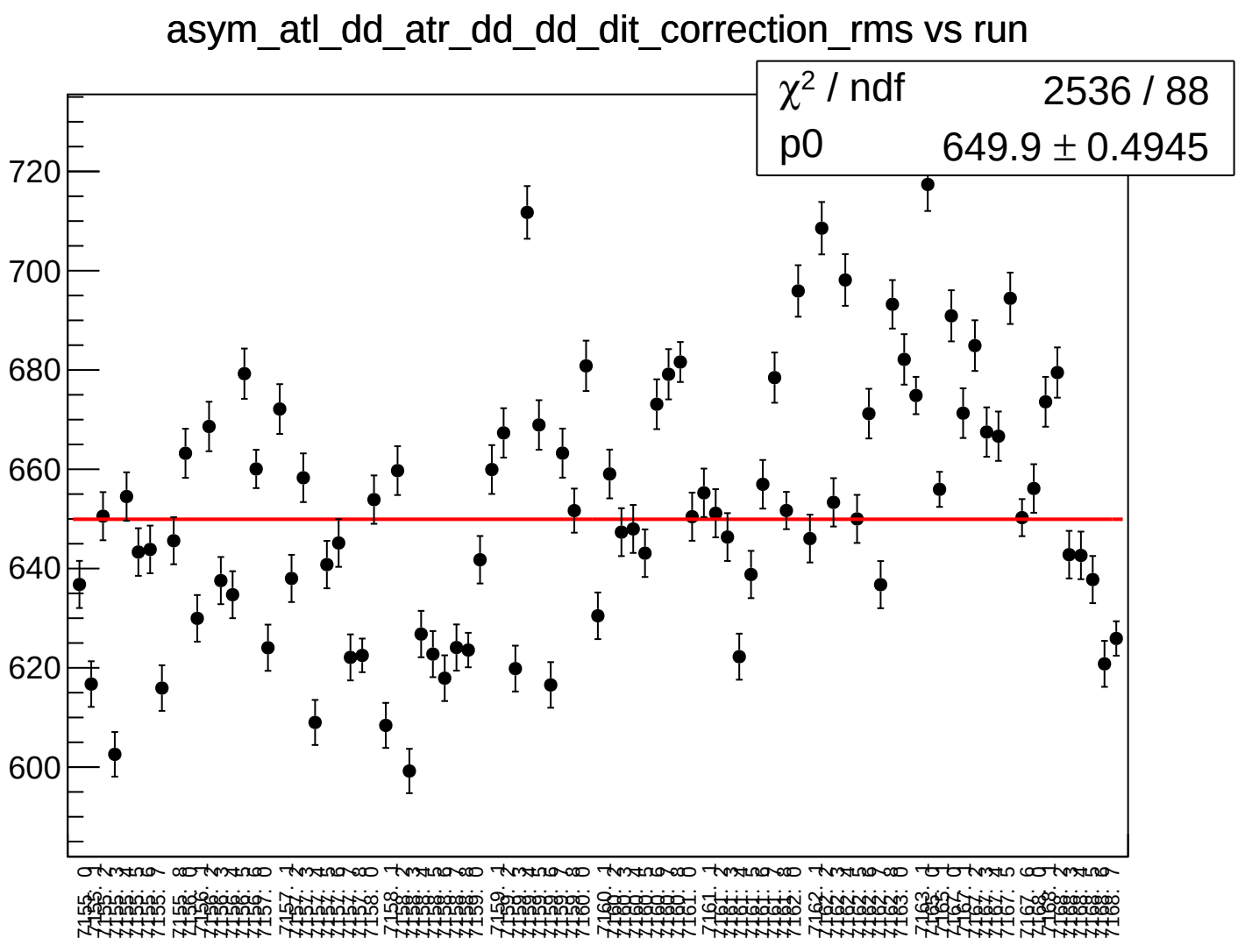

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.23 / 88
p0 1242 ± 1327
pull
Entries 89
Mean −450.1
Std Dev 0

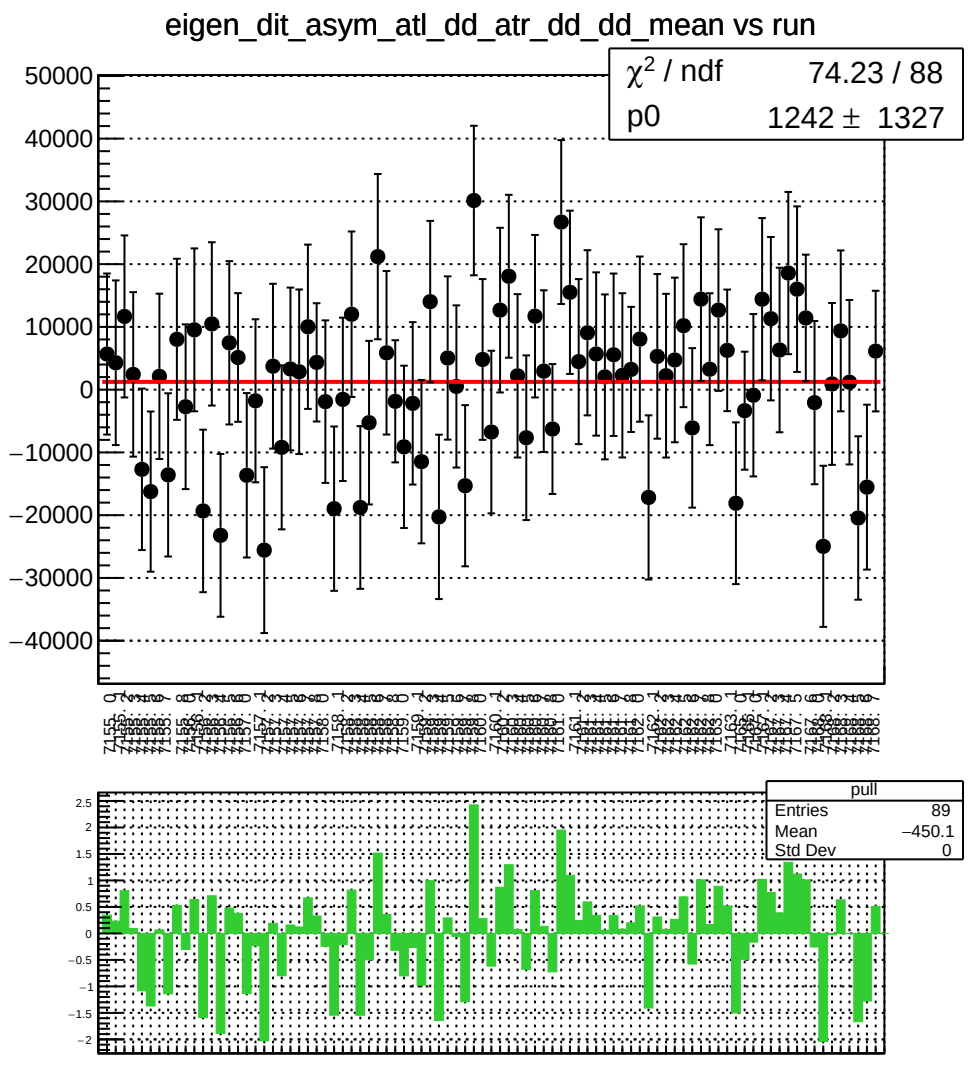

pull1D
Entries 89
Mean −0.007103
Std Dev 0.9132

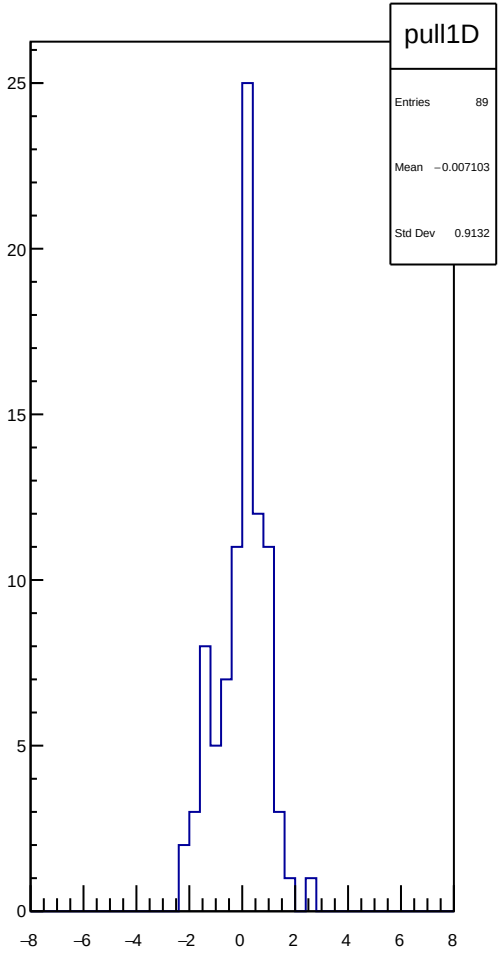

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.7 / 88
p0 1234 ± 0.938
1260
1250
1240
1230
1220
1210
1200

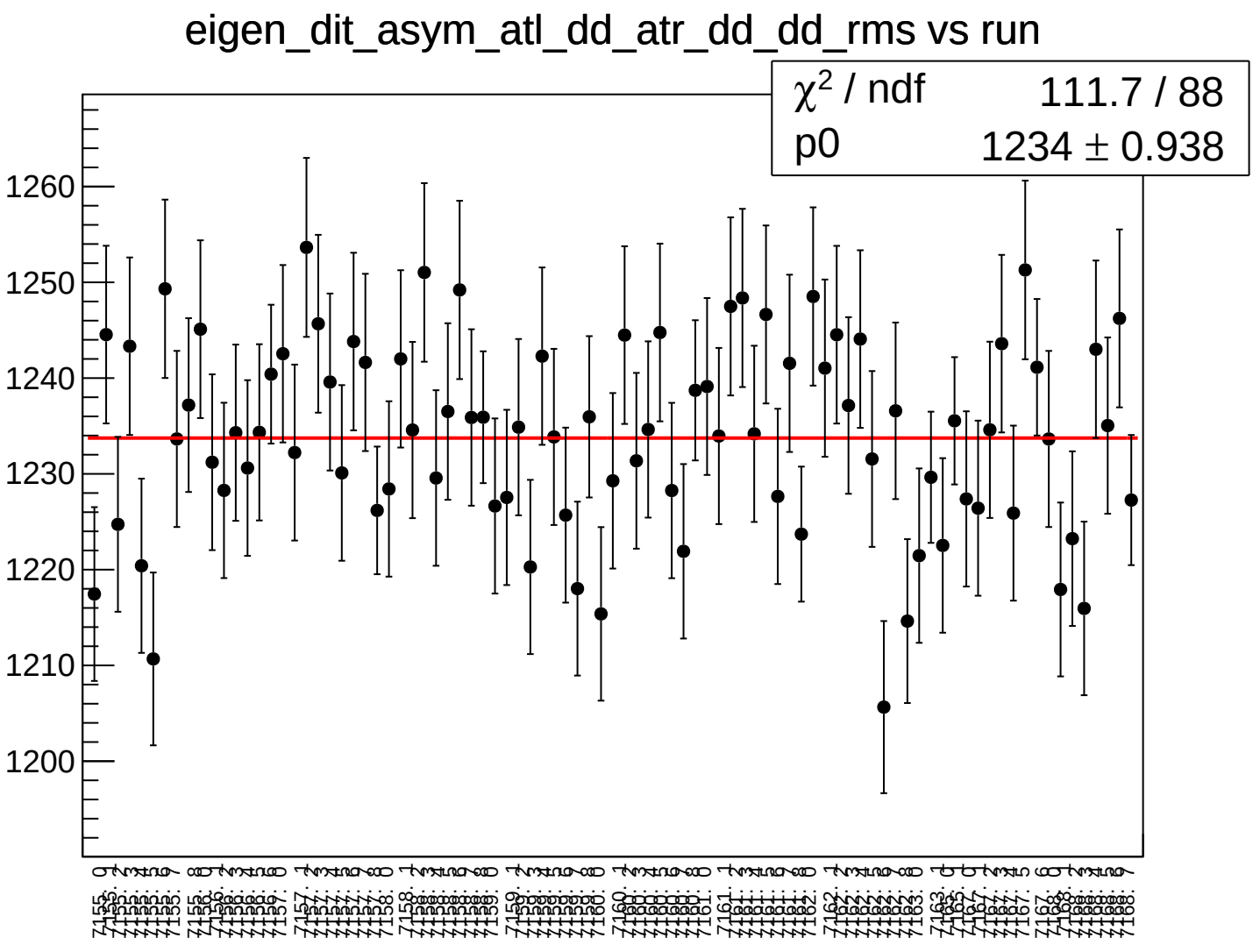

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 74.25 / 88
p0 −427 ± 699.3
pull
Entries 89
Mean −53.08
Std Dev 0

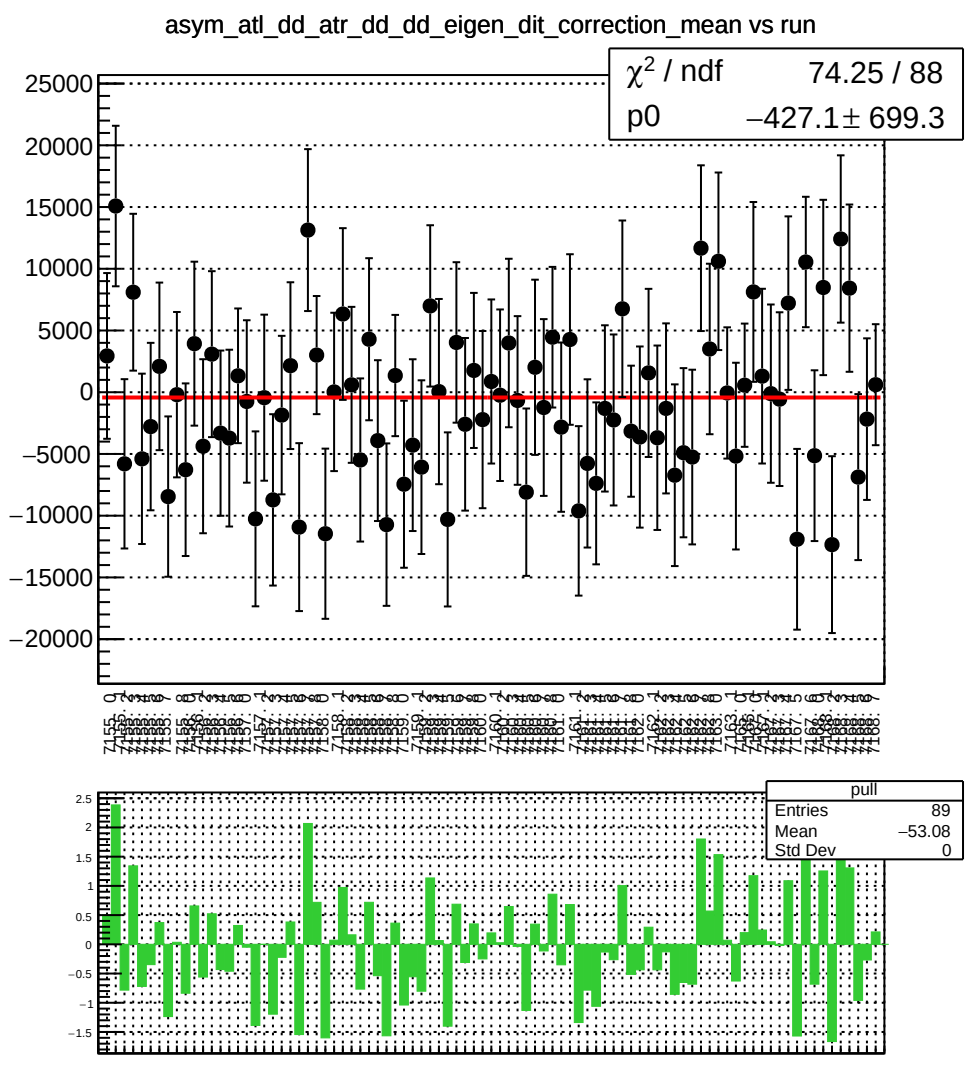

pull1D
Entries 89
Mean −0.02194
Std Dev 0.9131

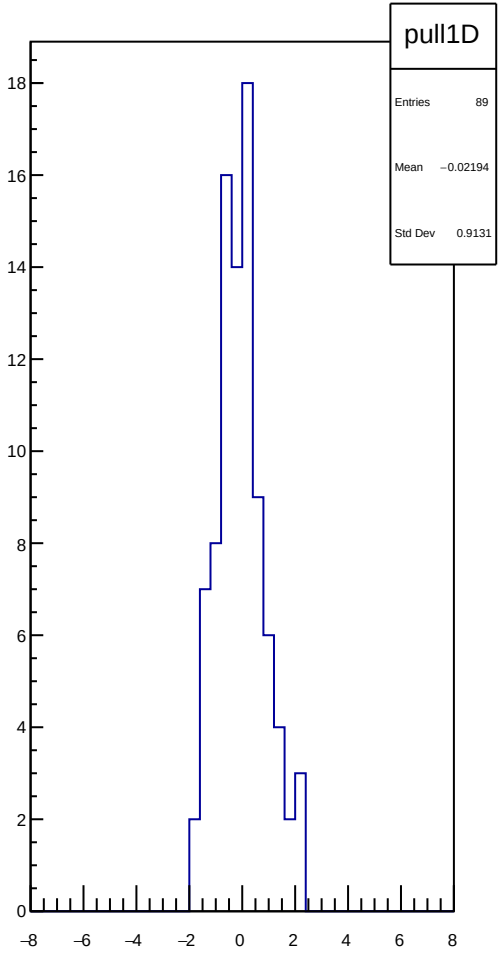

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2536 / 88
p0 649.9 ± 0.4945
720
700
680
660
640
620
600

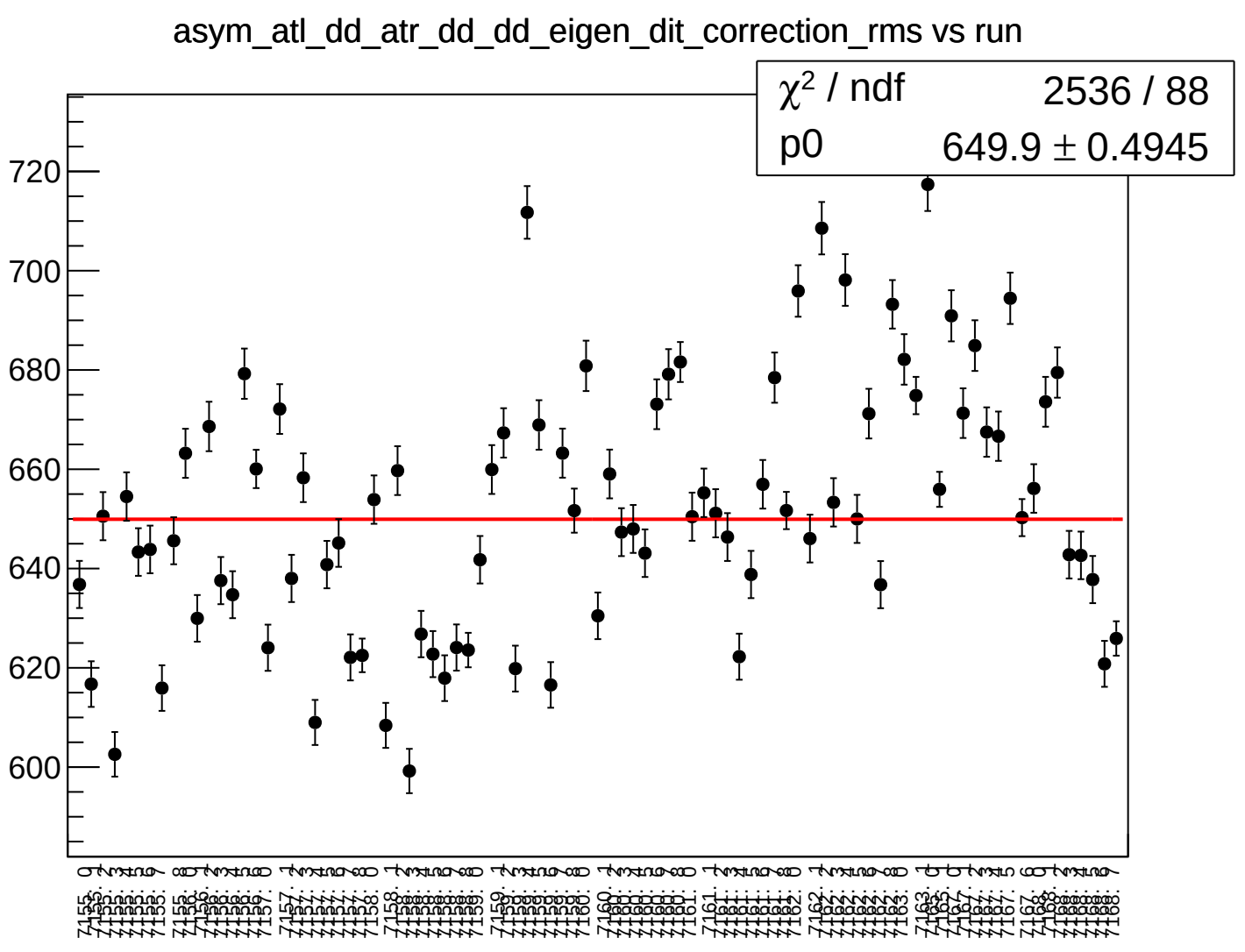

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 74.23 / 88
p0 1242 ± 1327
pull
Entries 89
Mean −450.1
Std Dev 0

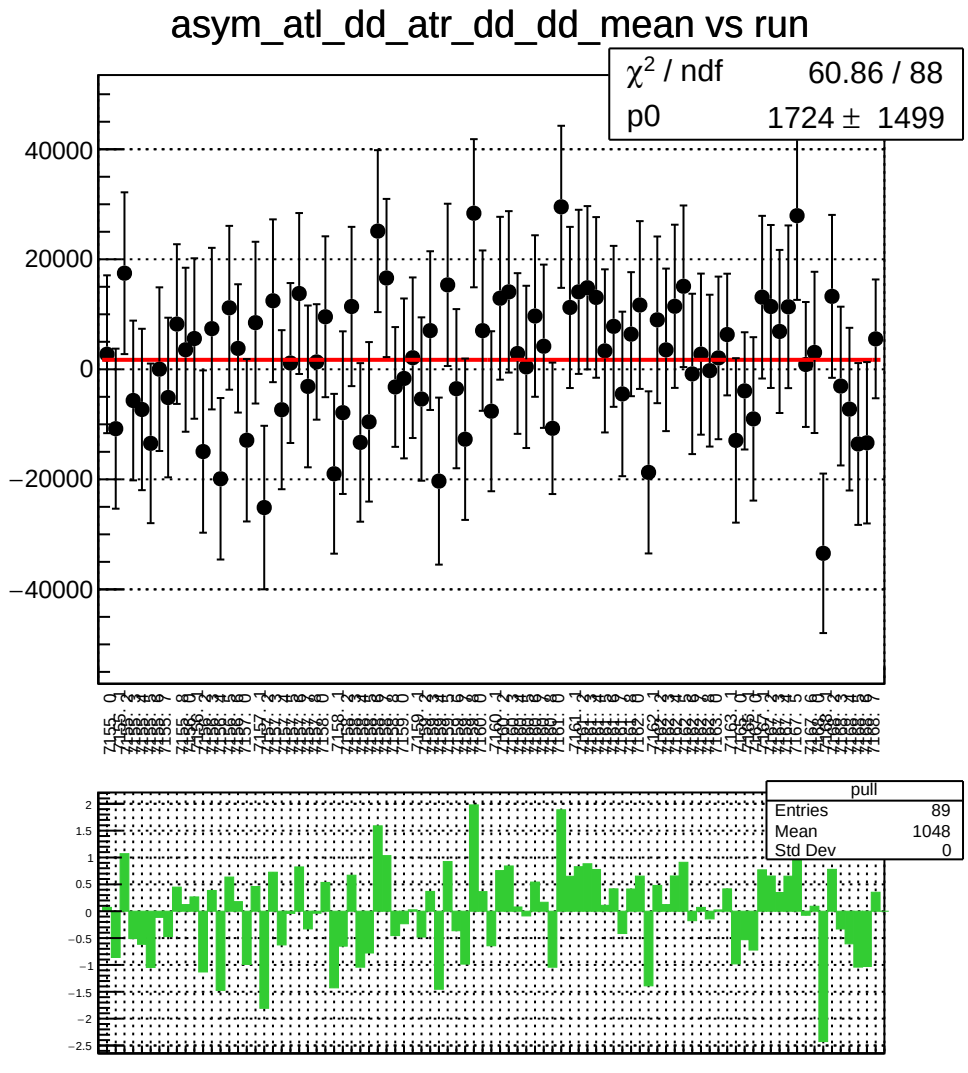

pull1D
Entries 89
Mean −0.007103
Std Dev 0.9132

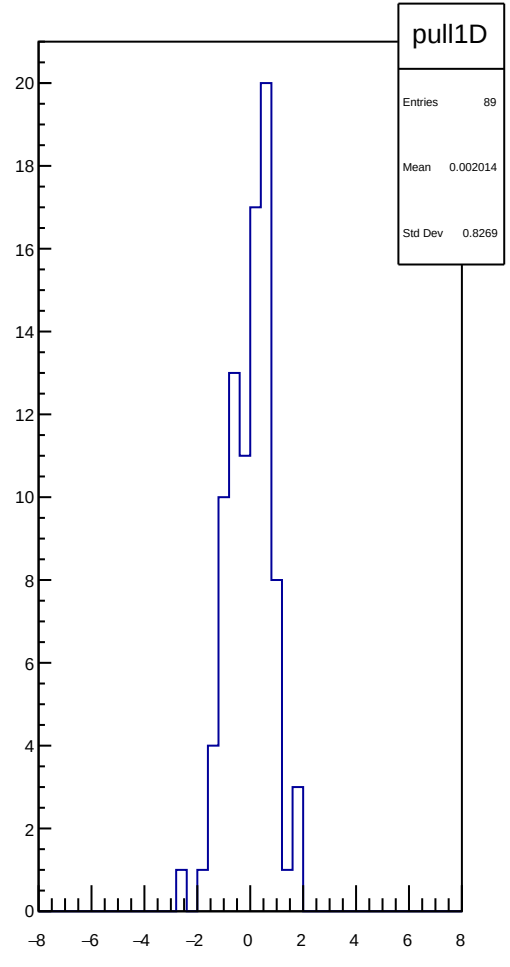

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 111.7 / 88
p0 1234 ± 0.938
1260
1250
1240
1230
1220
1210
1200

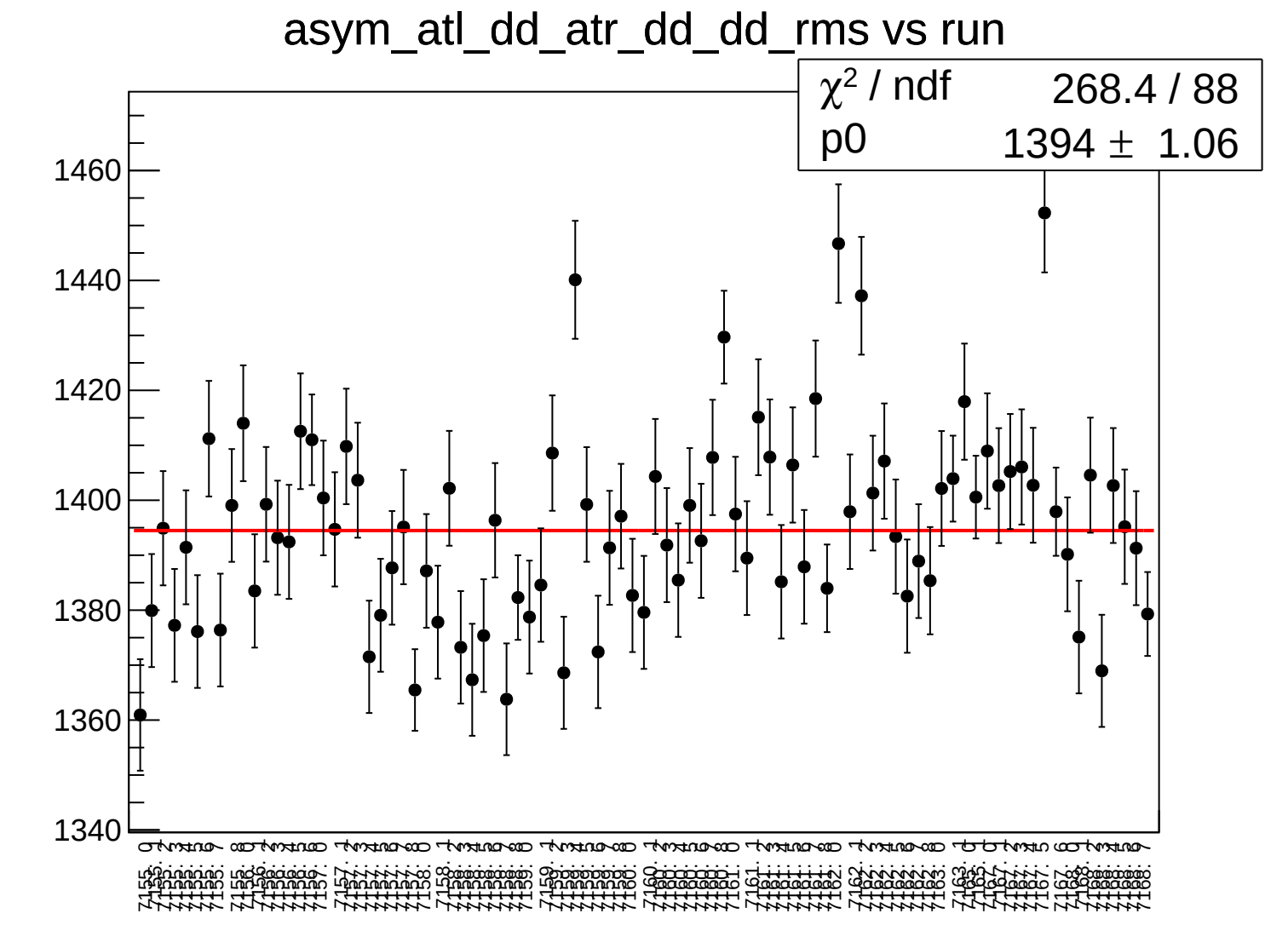

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.25 / 88
p0 −427.1± 699.3
pull
Entries 89
Mean −53.08
Std Dev 0

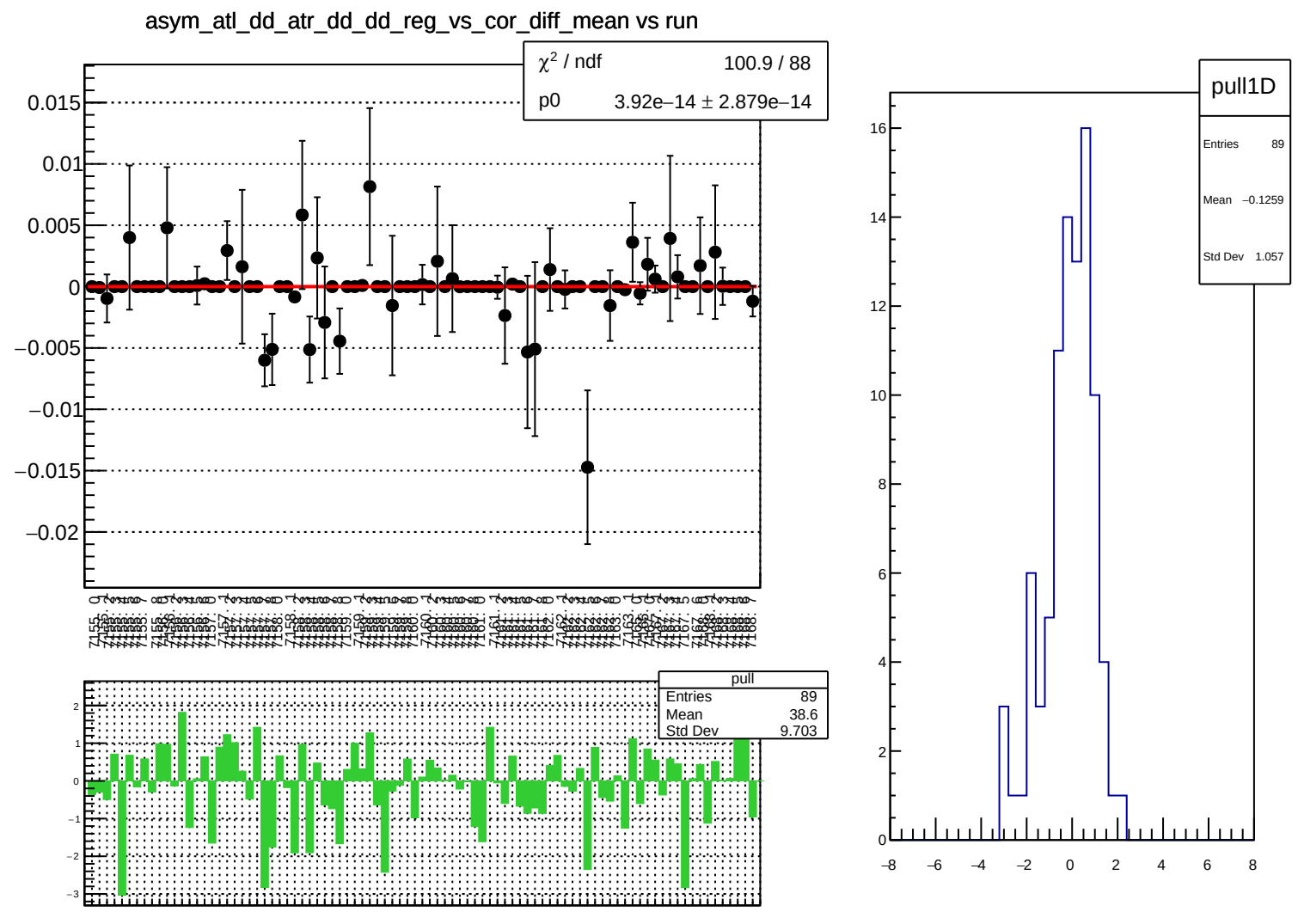

pull1D
Entries 89
Mean −0.02194
Std Dev 0.9131

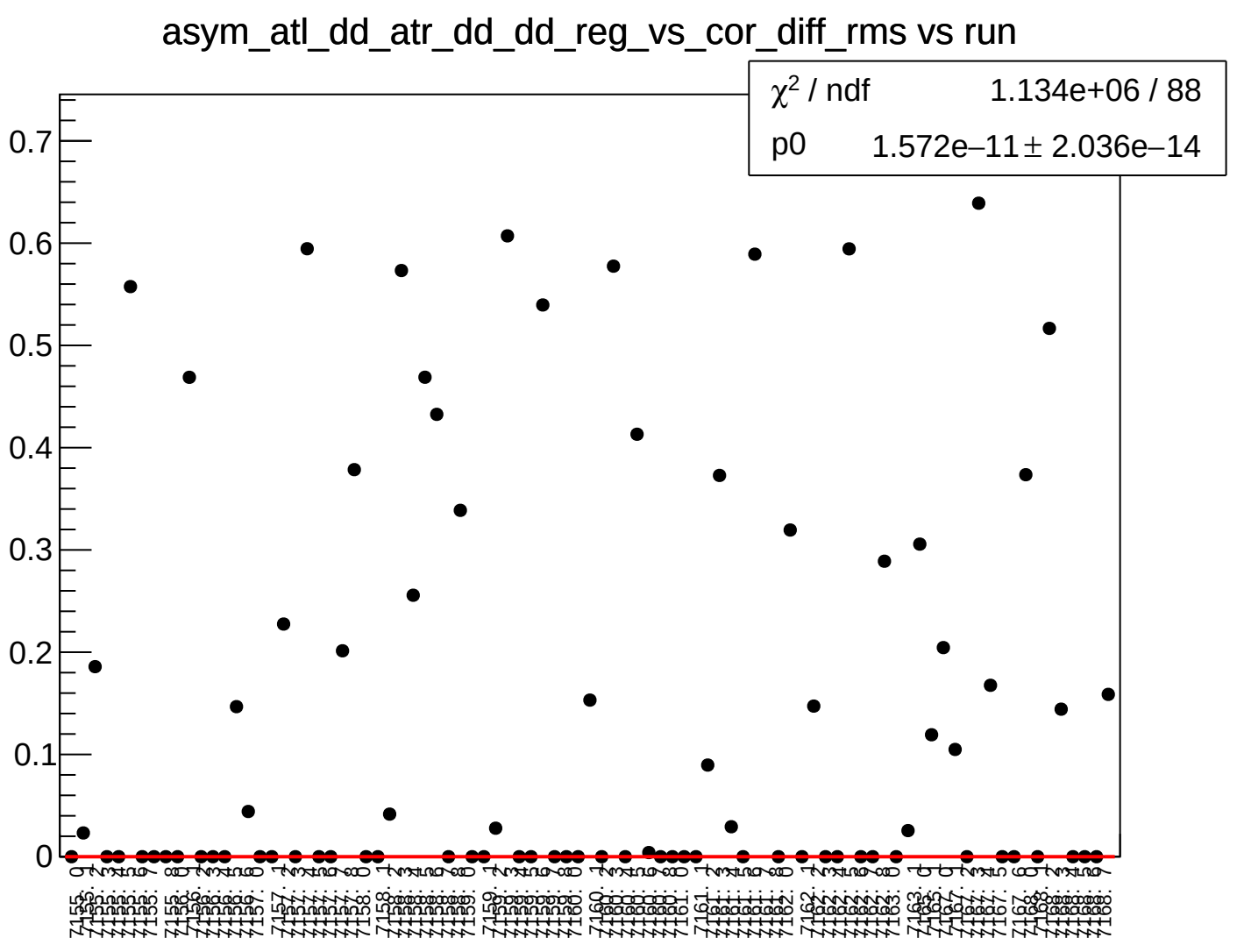

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2536 / 88
p0 649.9 ± 0.4945
720
700
680
660
640
620
600

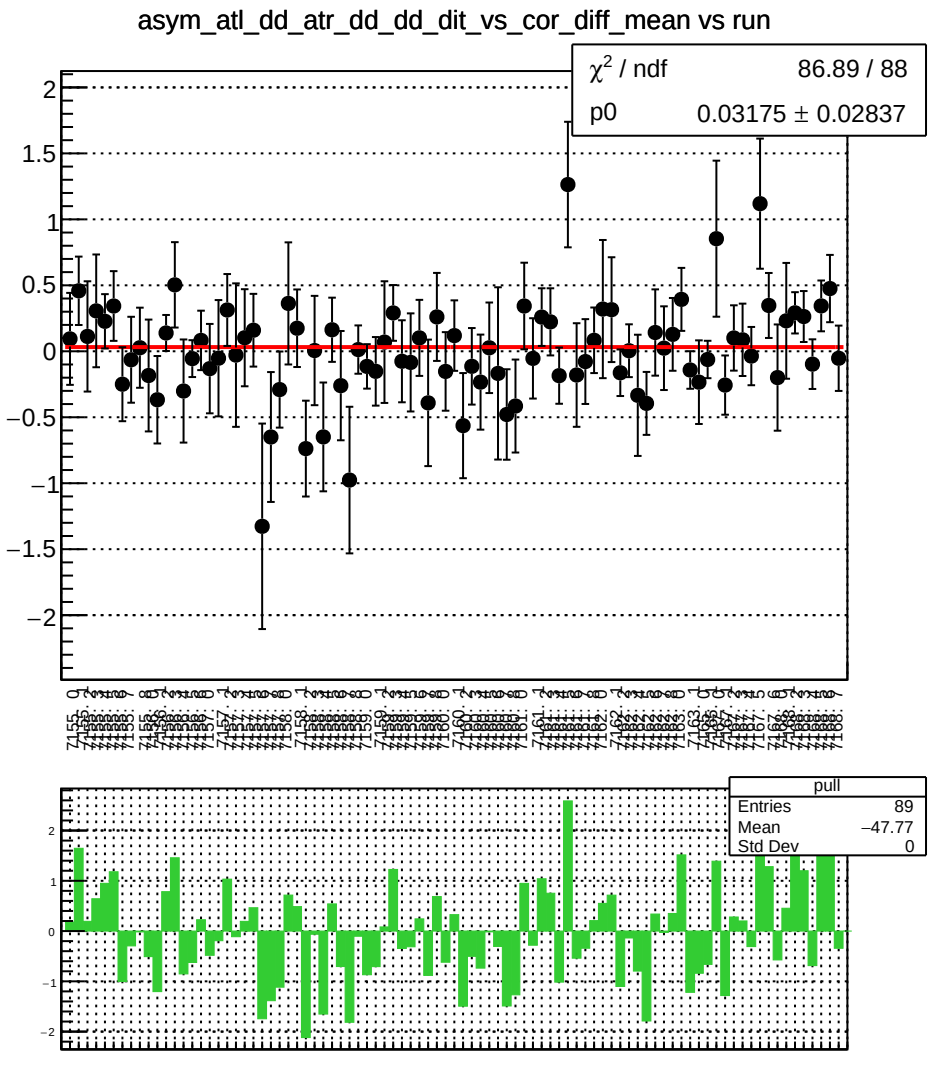

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 60.86 / 88
p0 1724 ± 1499
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

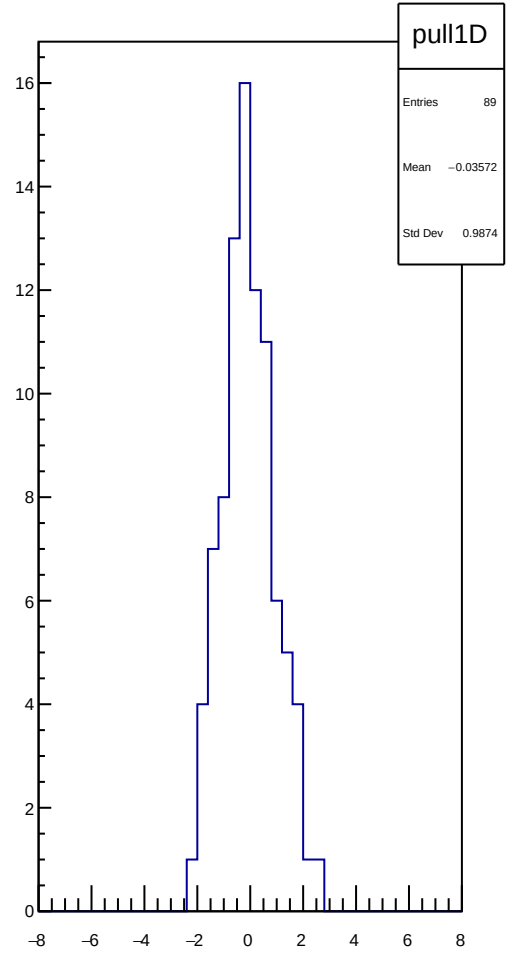

pull1D
Entries 89
Mean 0.002014
Std Dev 0.8269
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

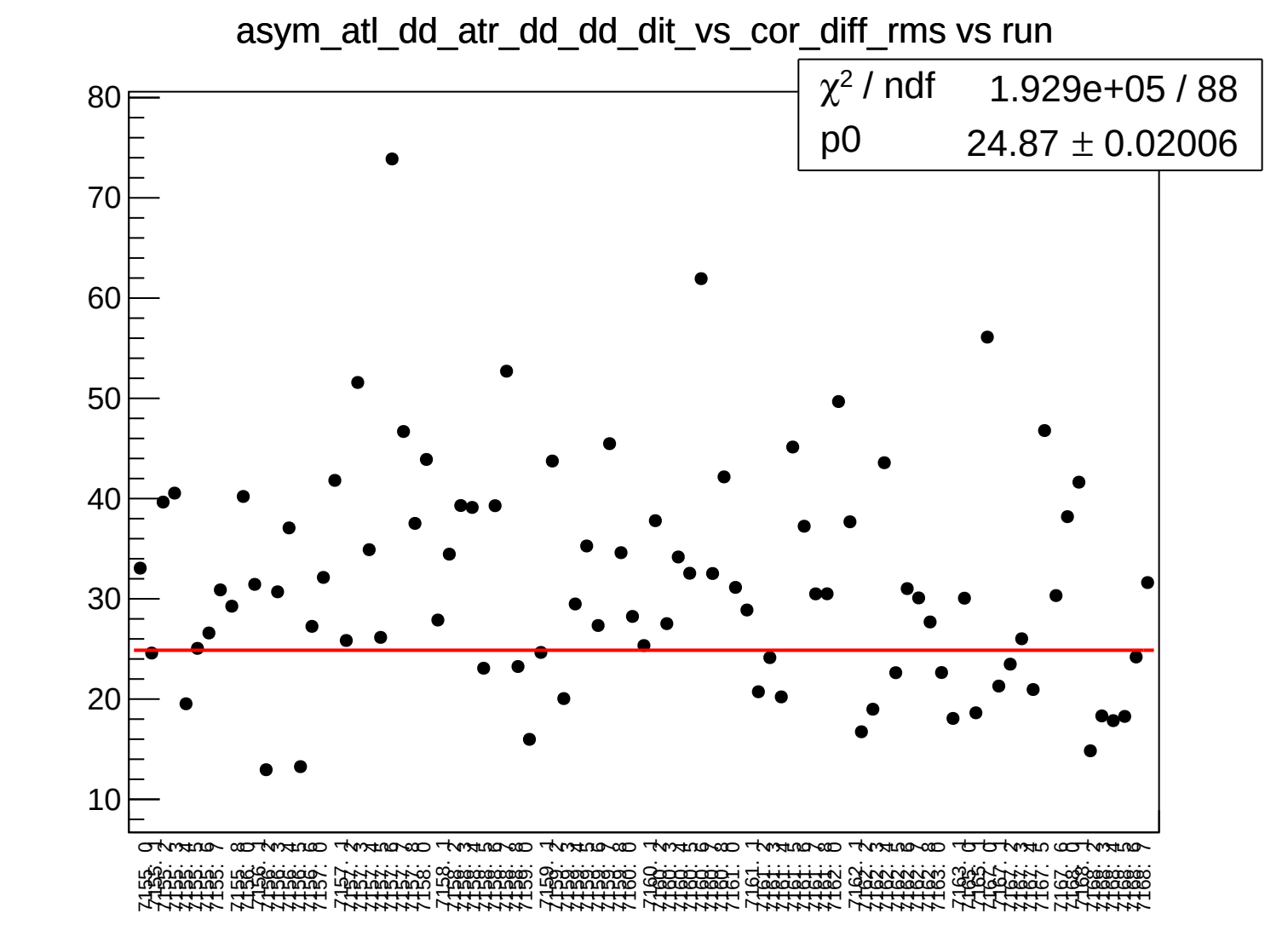

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 268.4 / 88
p0 1394 ± 1.06
1460
1440
1420
1400
1380
1360
1340

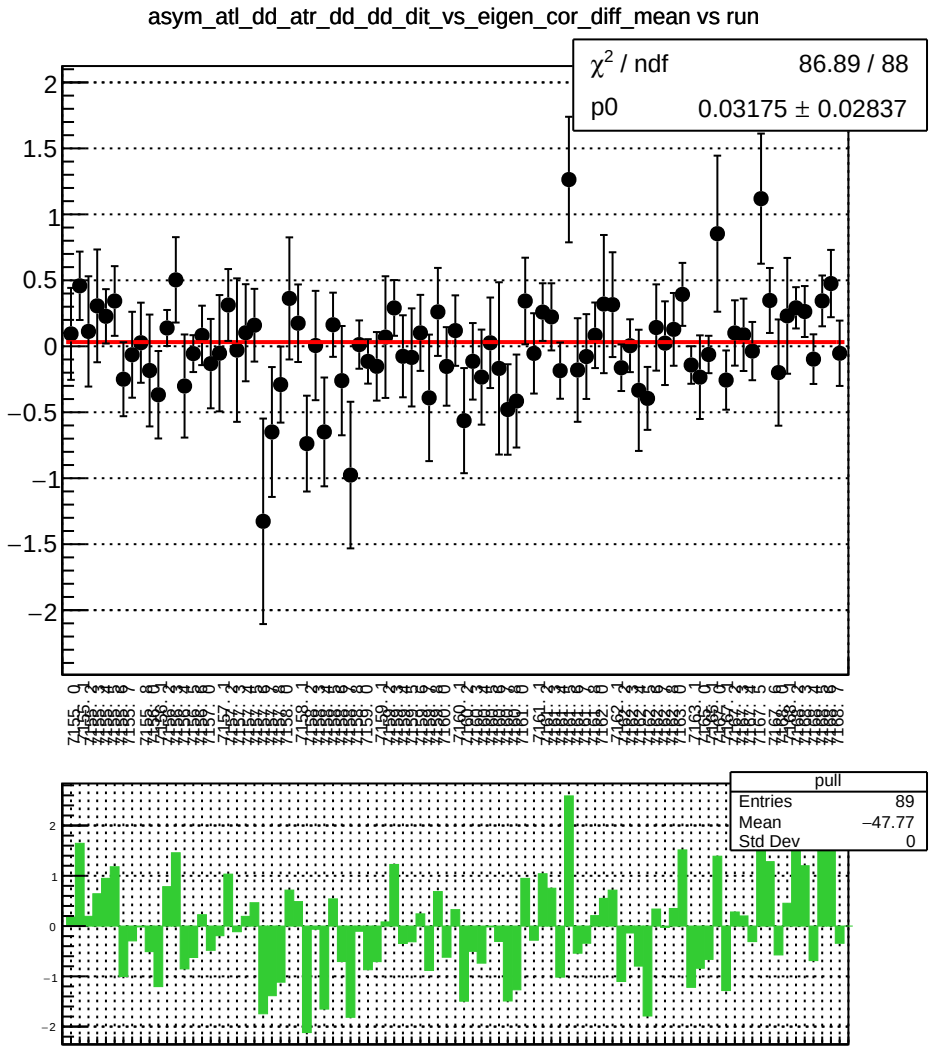

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 3.92e−14 ± 2.879e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 38.6
Std Dev 9.703
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.1259
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

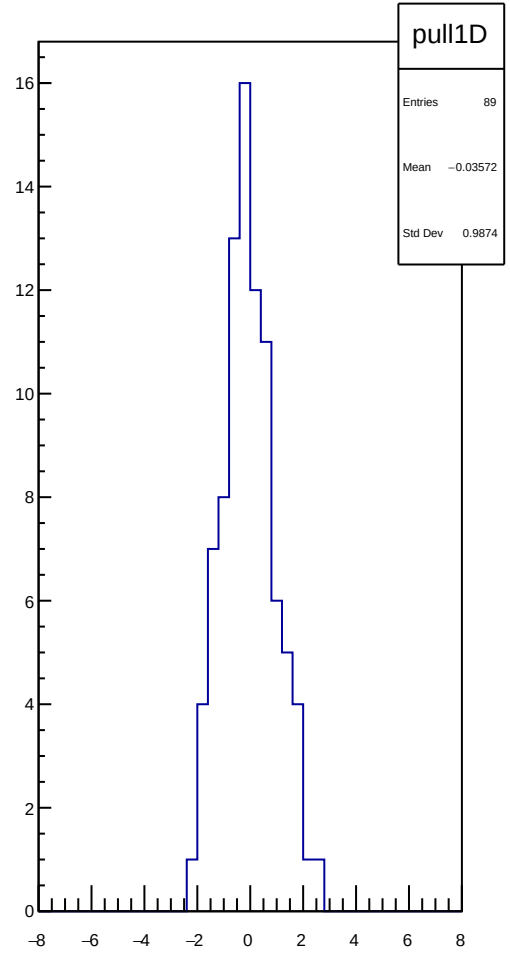

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 88
p0 1.572e−11 ± 2.036e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

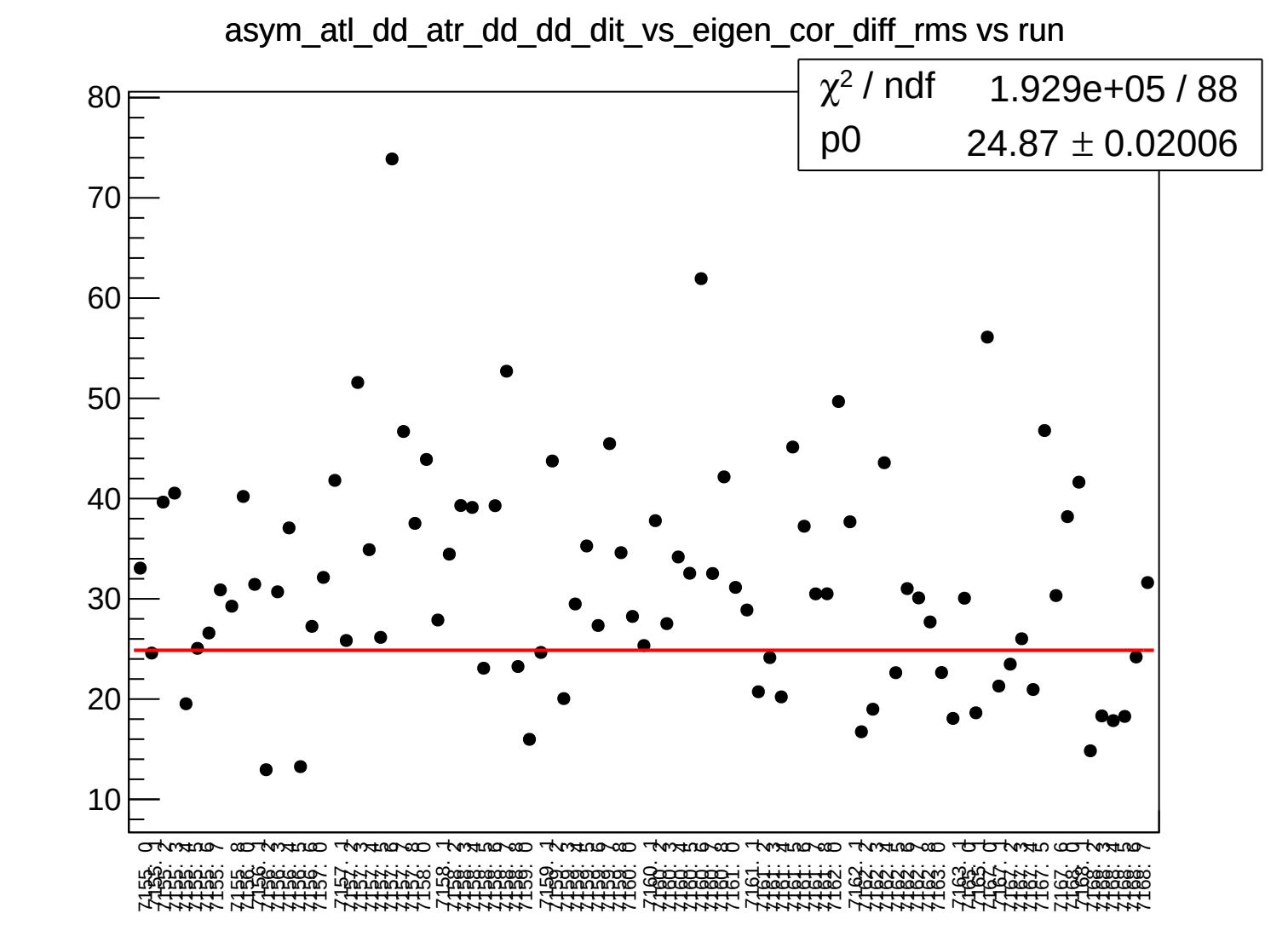

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.77
Std Dev 0

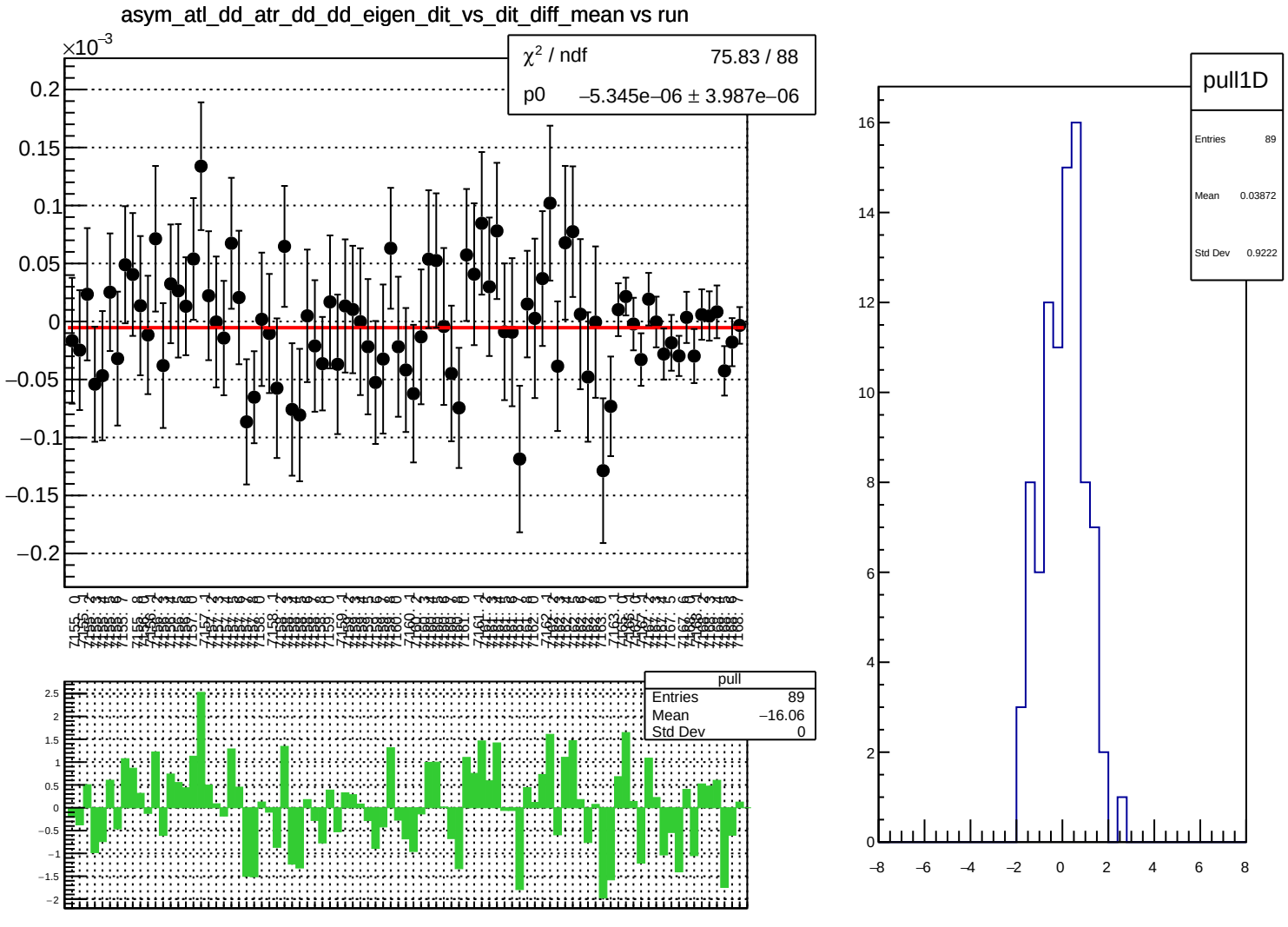

pull1D
Entries 89
Mean −0.03572
Std Dev 0.9874

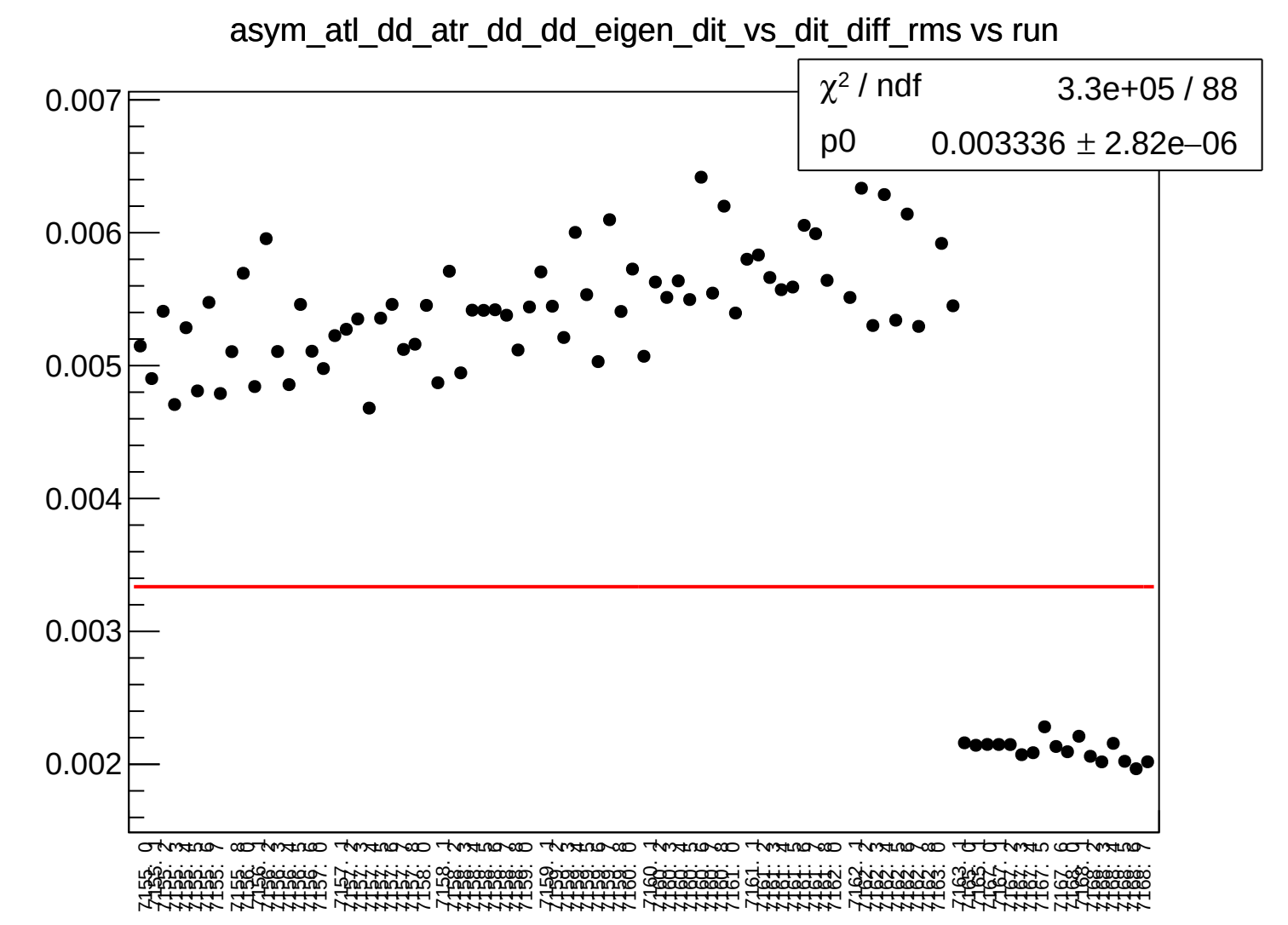

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

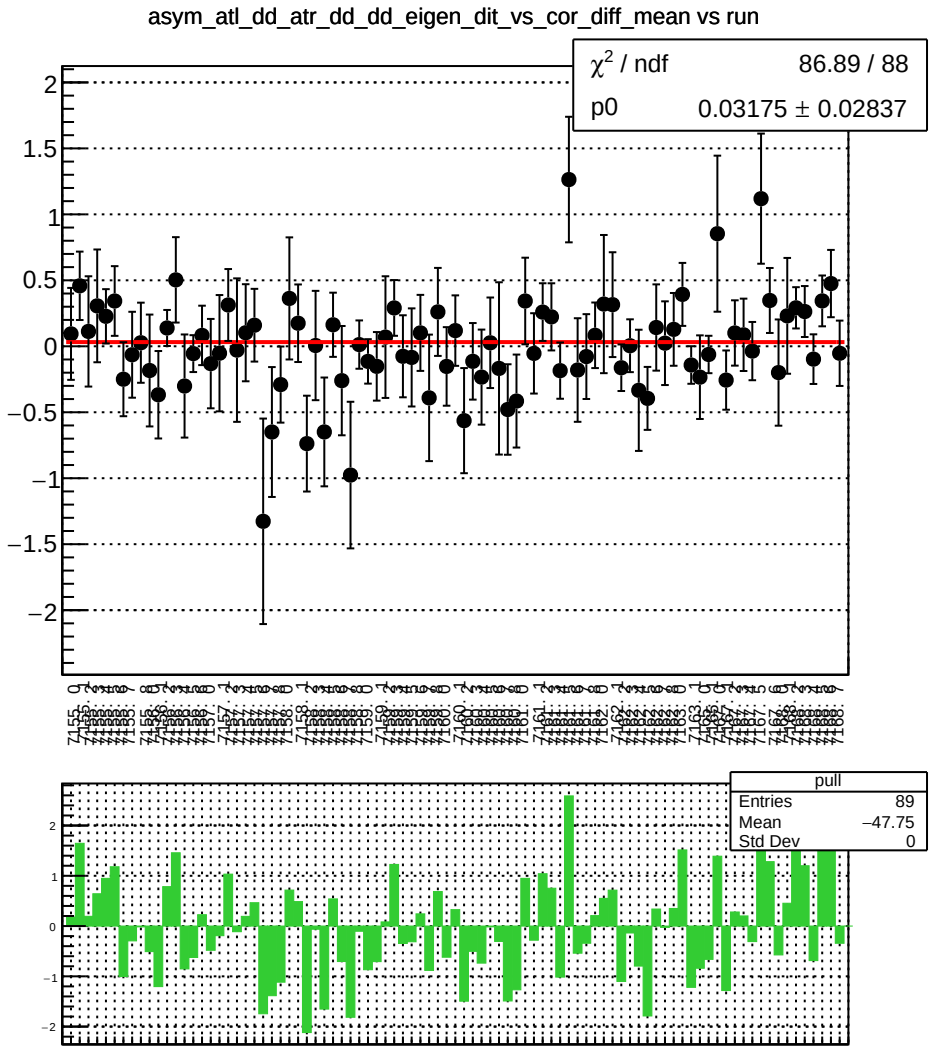

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.77
Std Dev 0

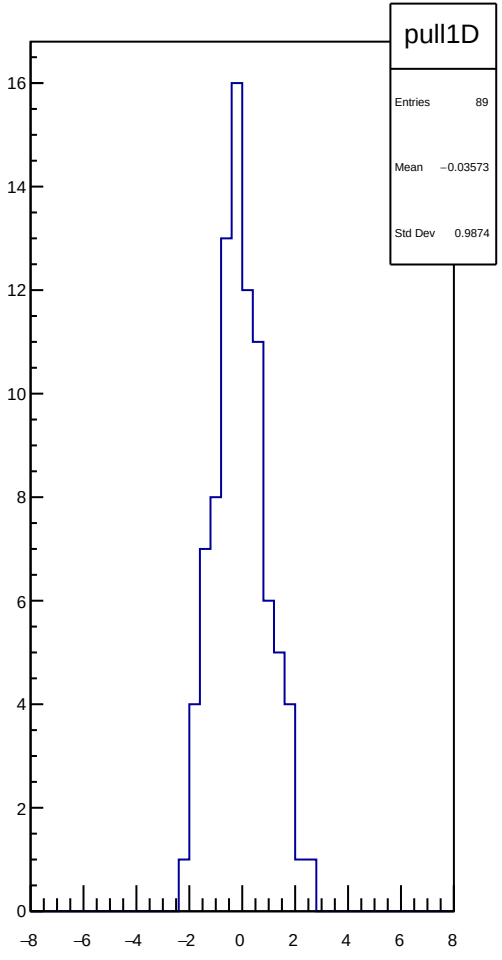

pull1D
Entries 89
Mean −0.03572
Std Dev 0.9874

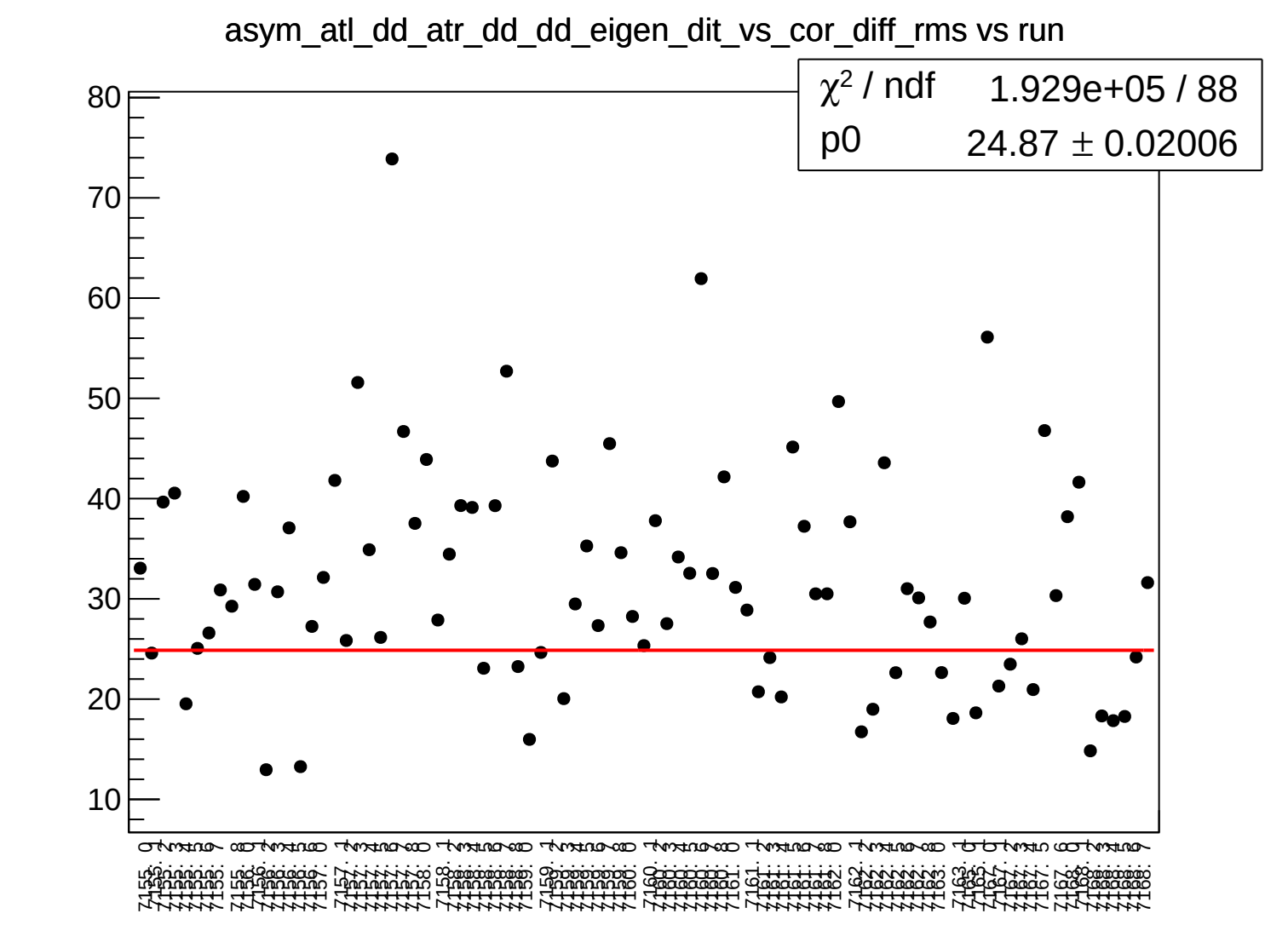

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

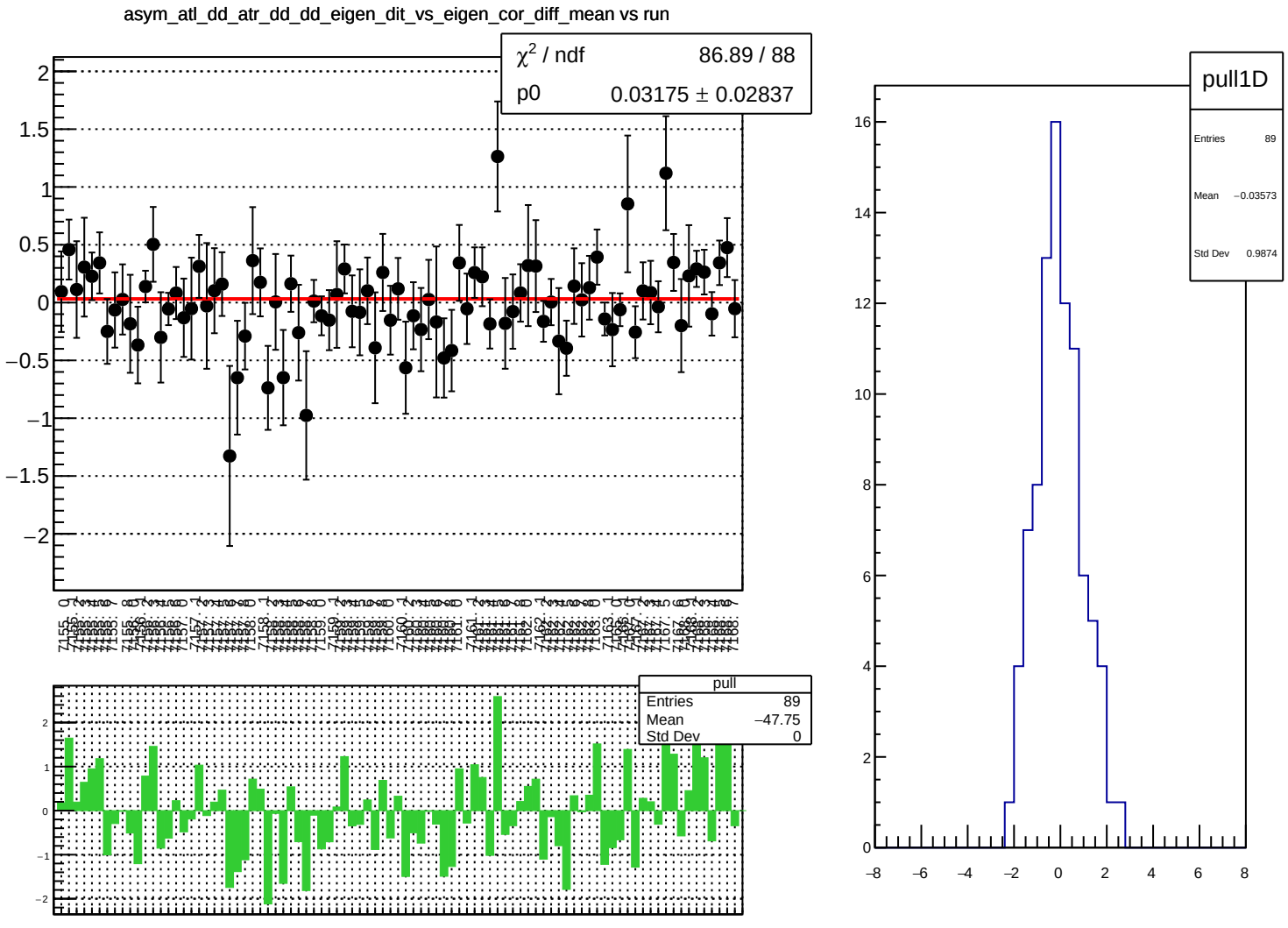

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.83 / 88
p0 −5.345e−06 ± 3.987e−06
pull
Entries 89
Mean −16.06
Std Dev 0
pull1D
Entries 89
Mean 0.03872
Std Dev 0.9222

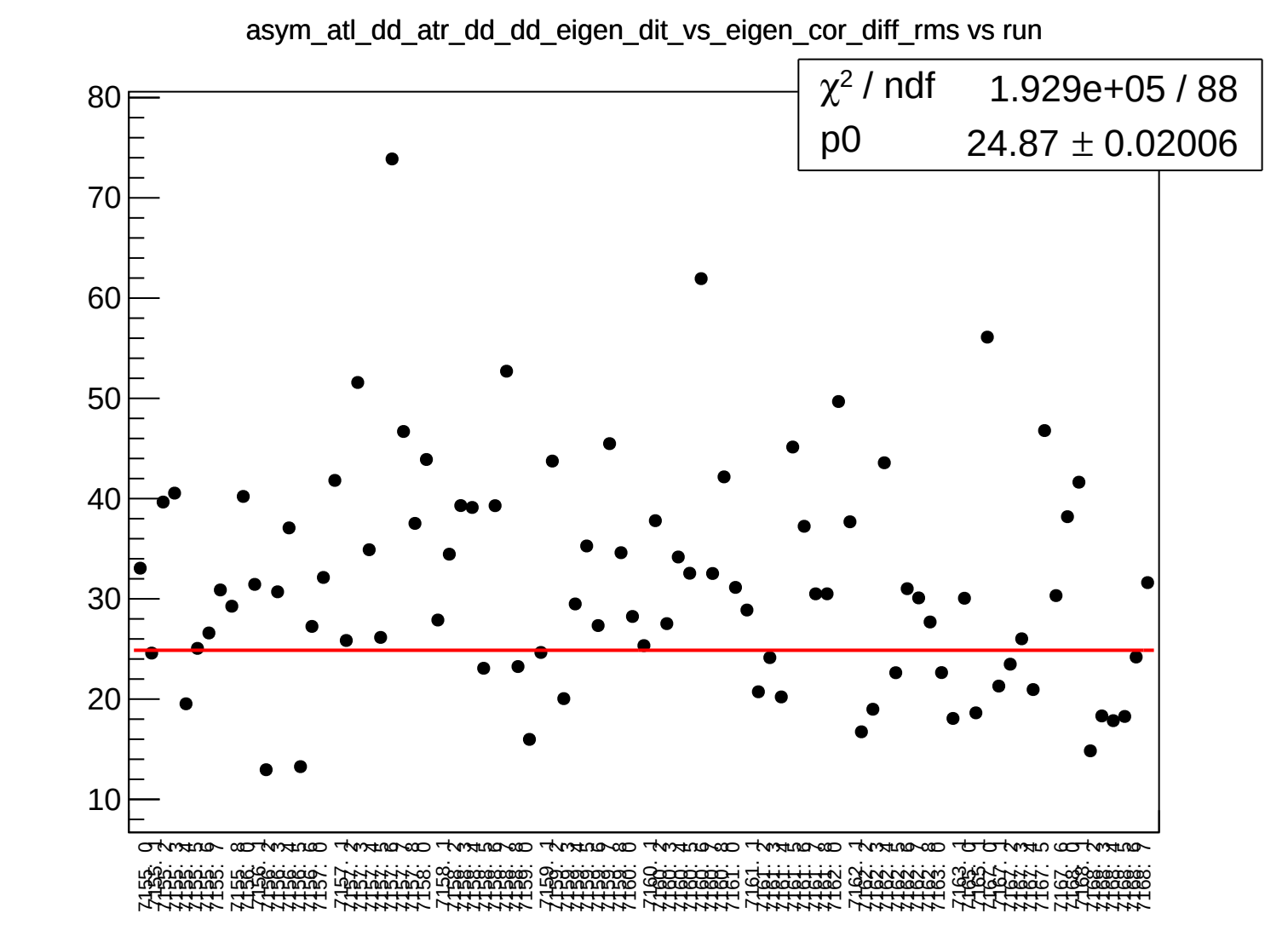

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.3e+05 / 88
p0 0.003336 ± 2.82e−06
0.007
0.006
0.005
0.004
0.003
0.002

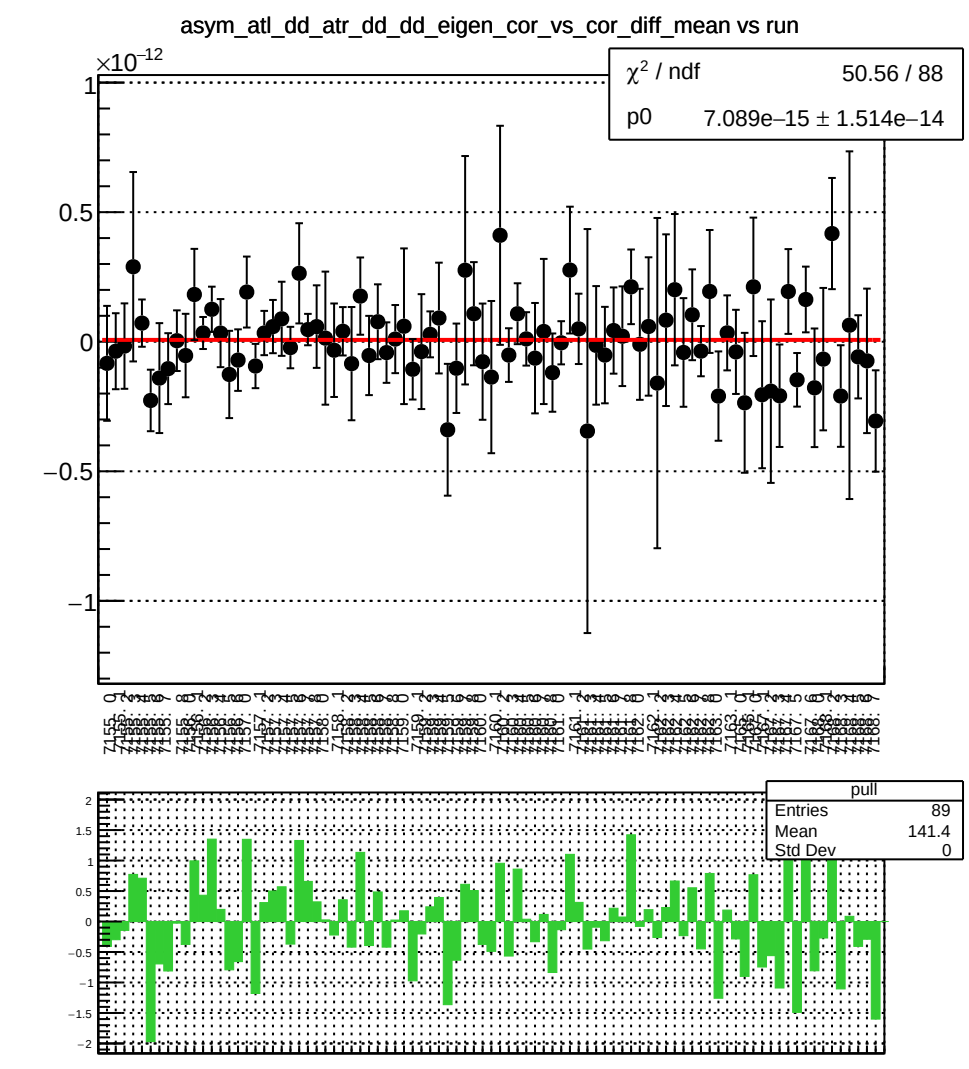

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.75
Std Dev 0

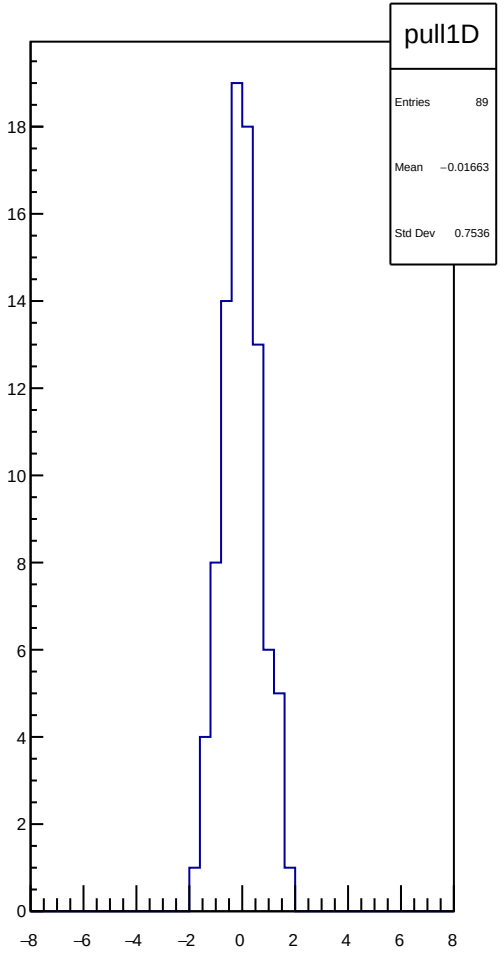

pull1D
Entries 89
Mean −0.03573
Std Dev 0.9874

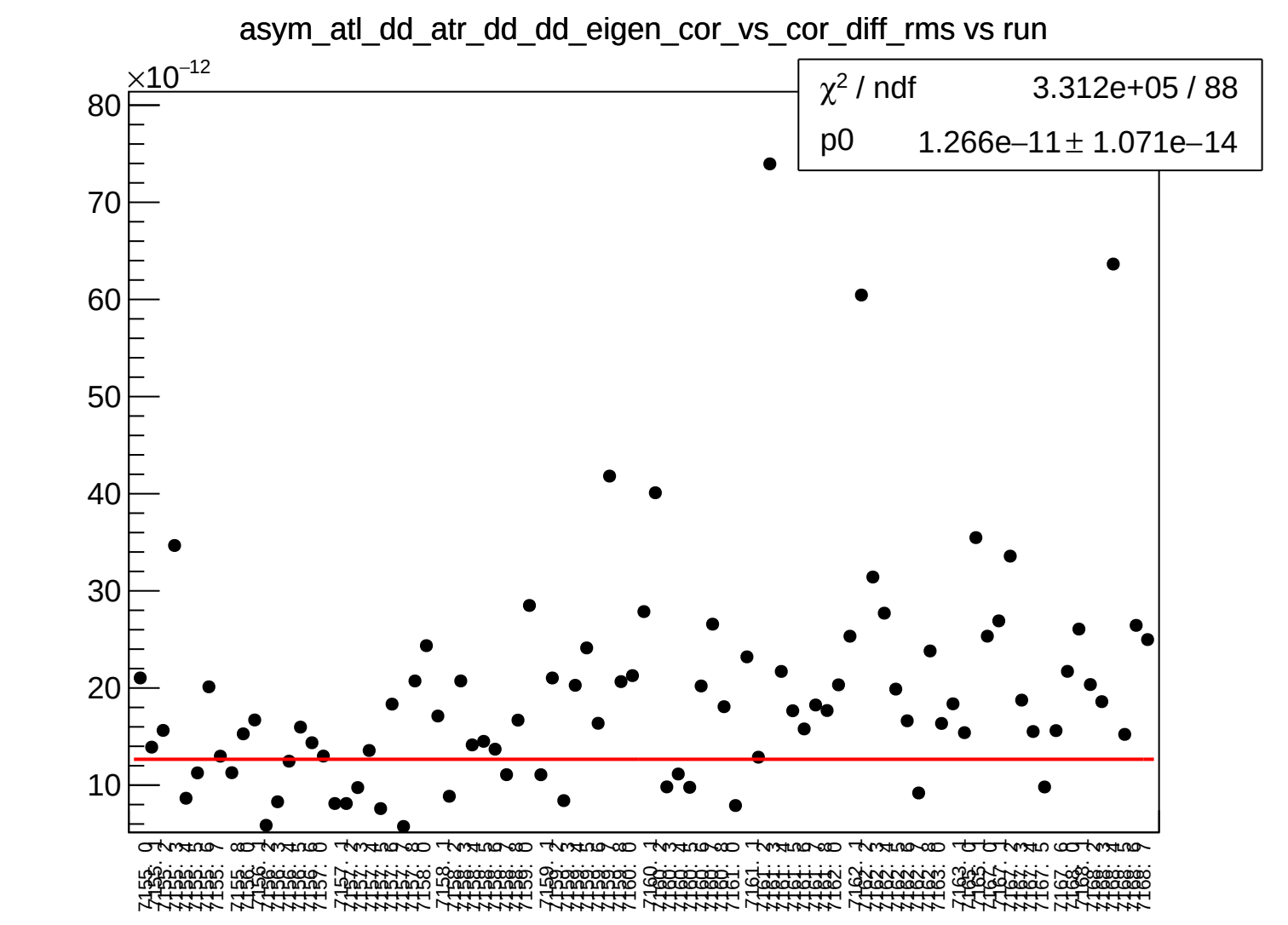

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

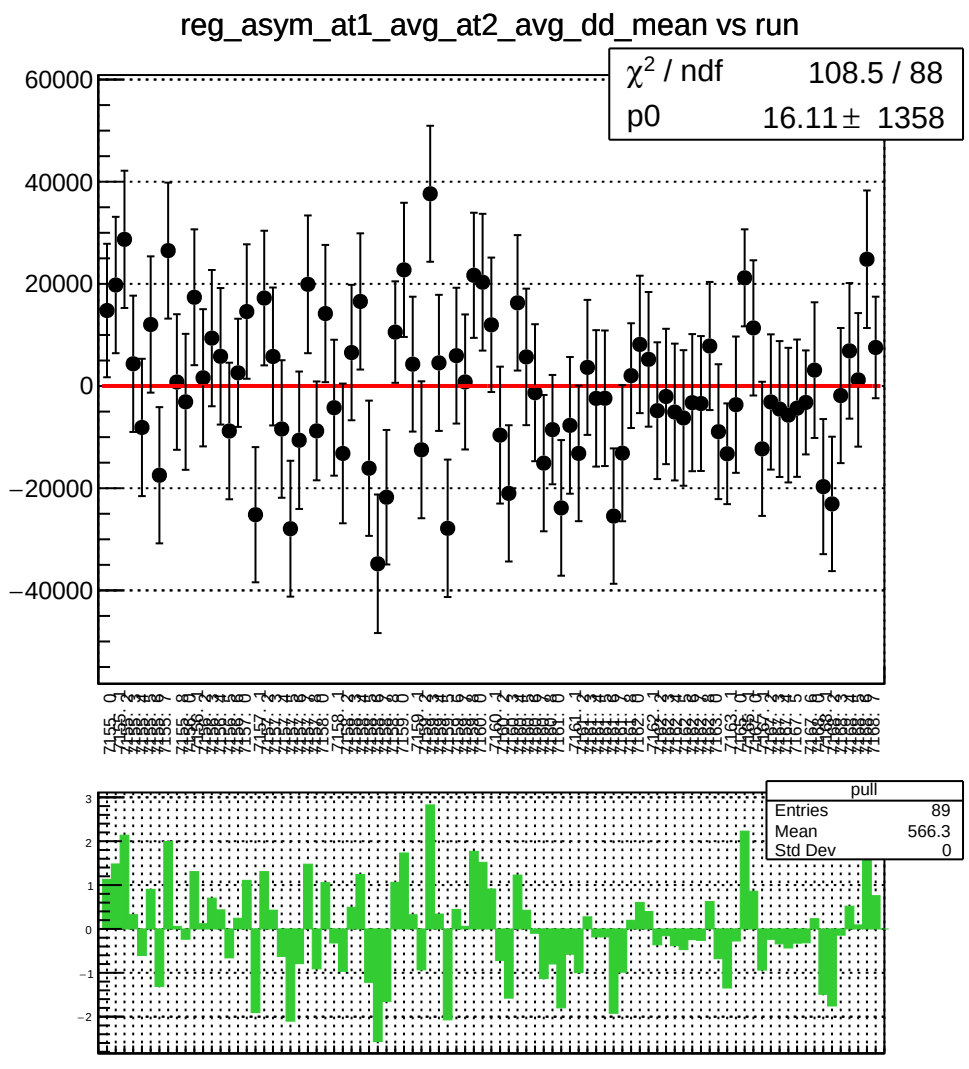

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.75
Std Dev 0
pull1D
Entries 89
Mean −0.03573
Std Dev 0.9874

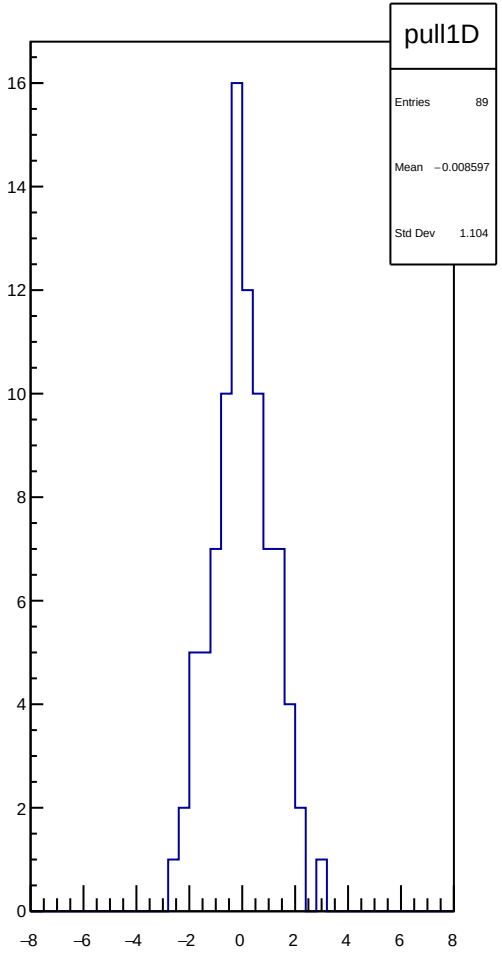

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

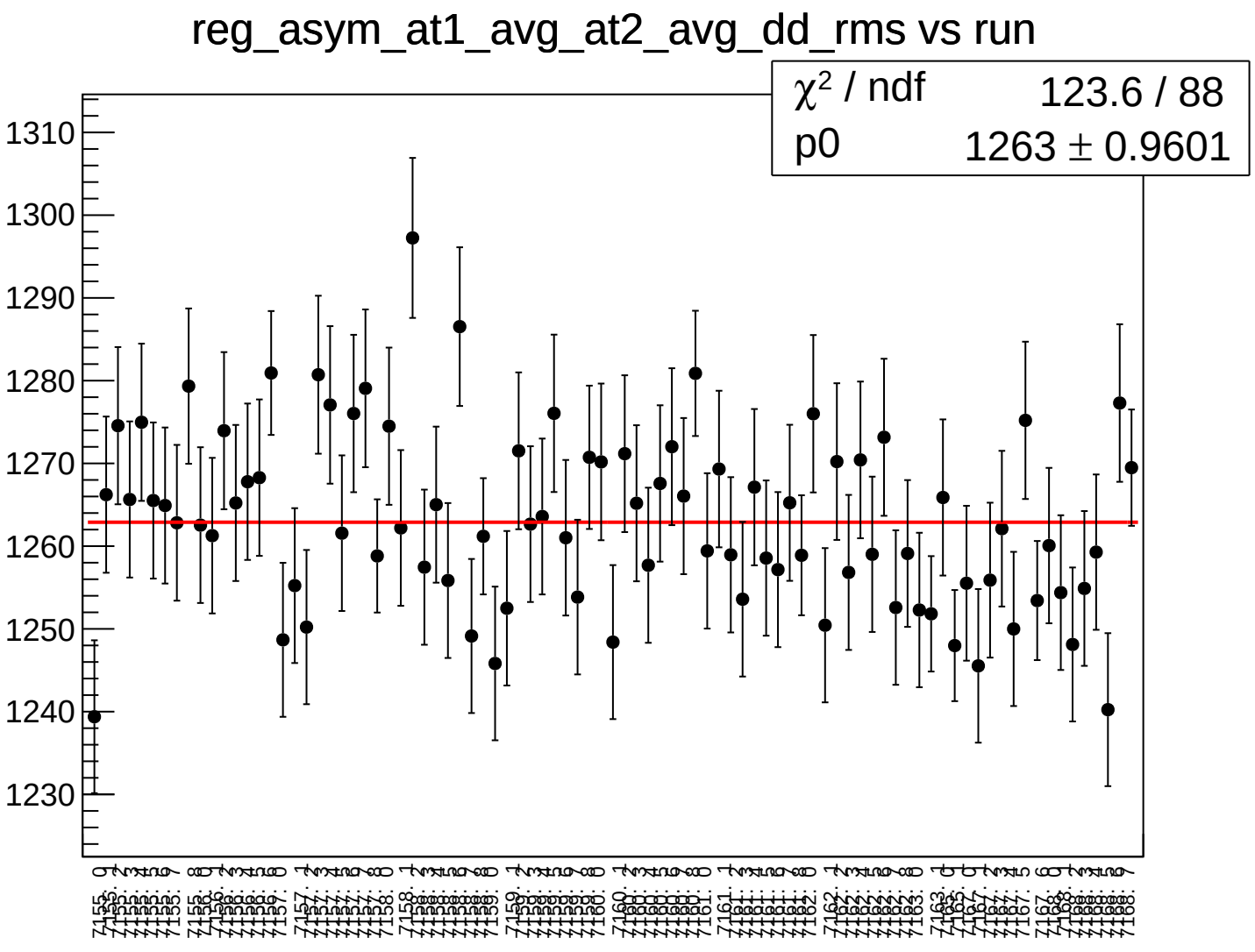

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 50.56 / 88
p0 7.089e−15 ± 1.514e−14
pull
Entries 89
Mean 141.4
Std Dev 0

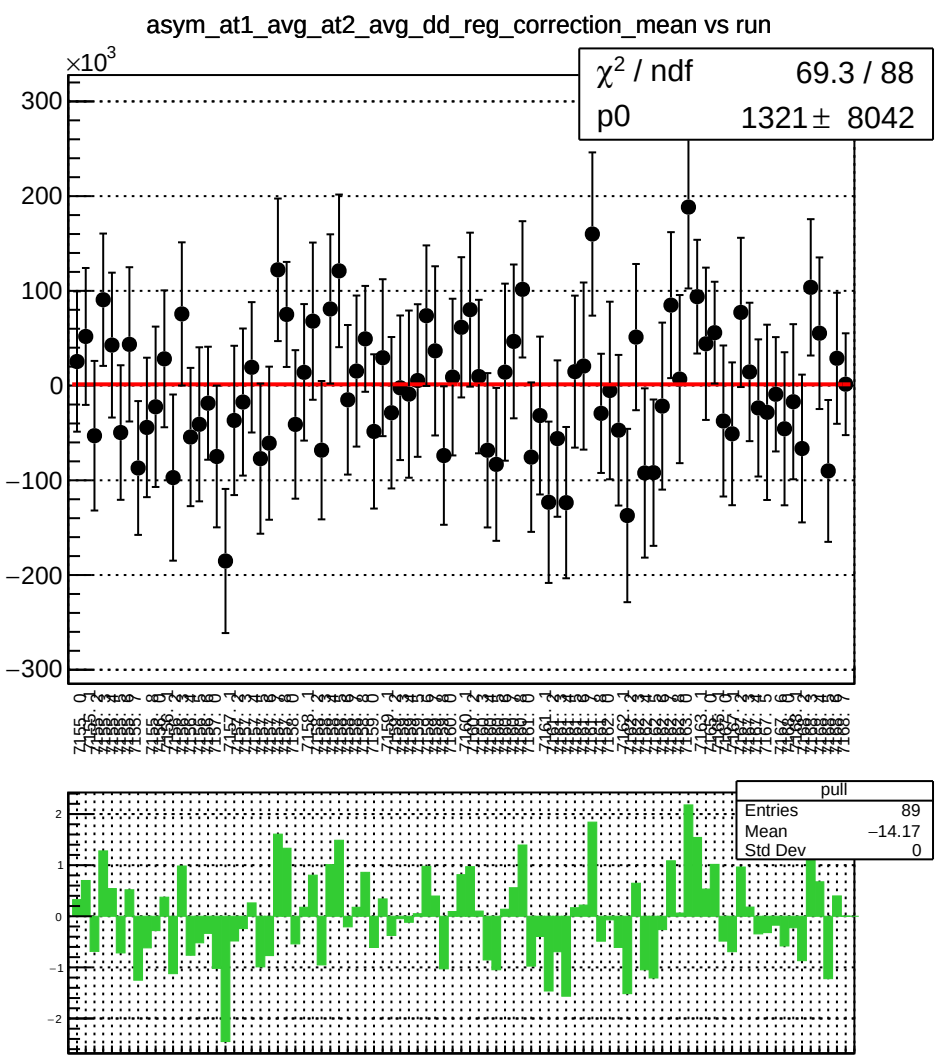

pull1D
Entries 89
Mean −0.01663
Std Dev 0.7536

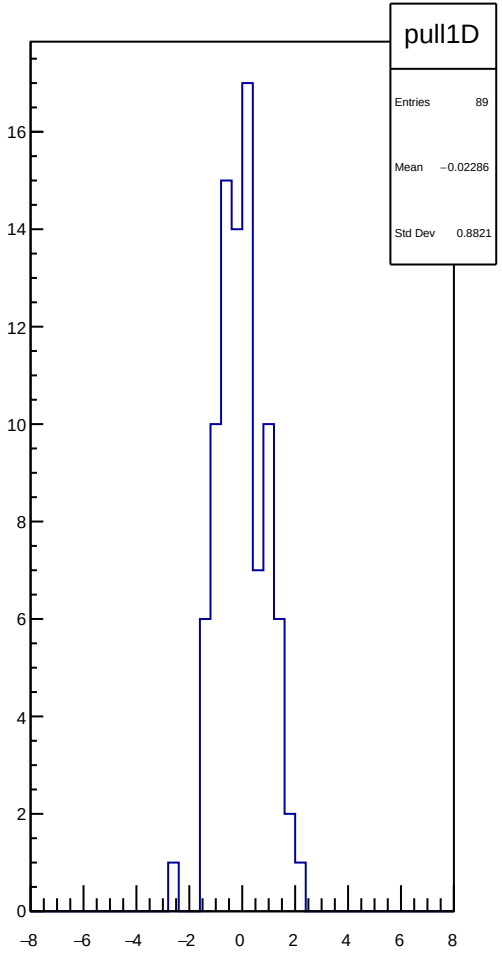

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10^−12
80
70
60
50
40
30
20
10
χ² / ndf 3.312e+05 / 88
p0 1.266e−11 ± 1.071e−14

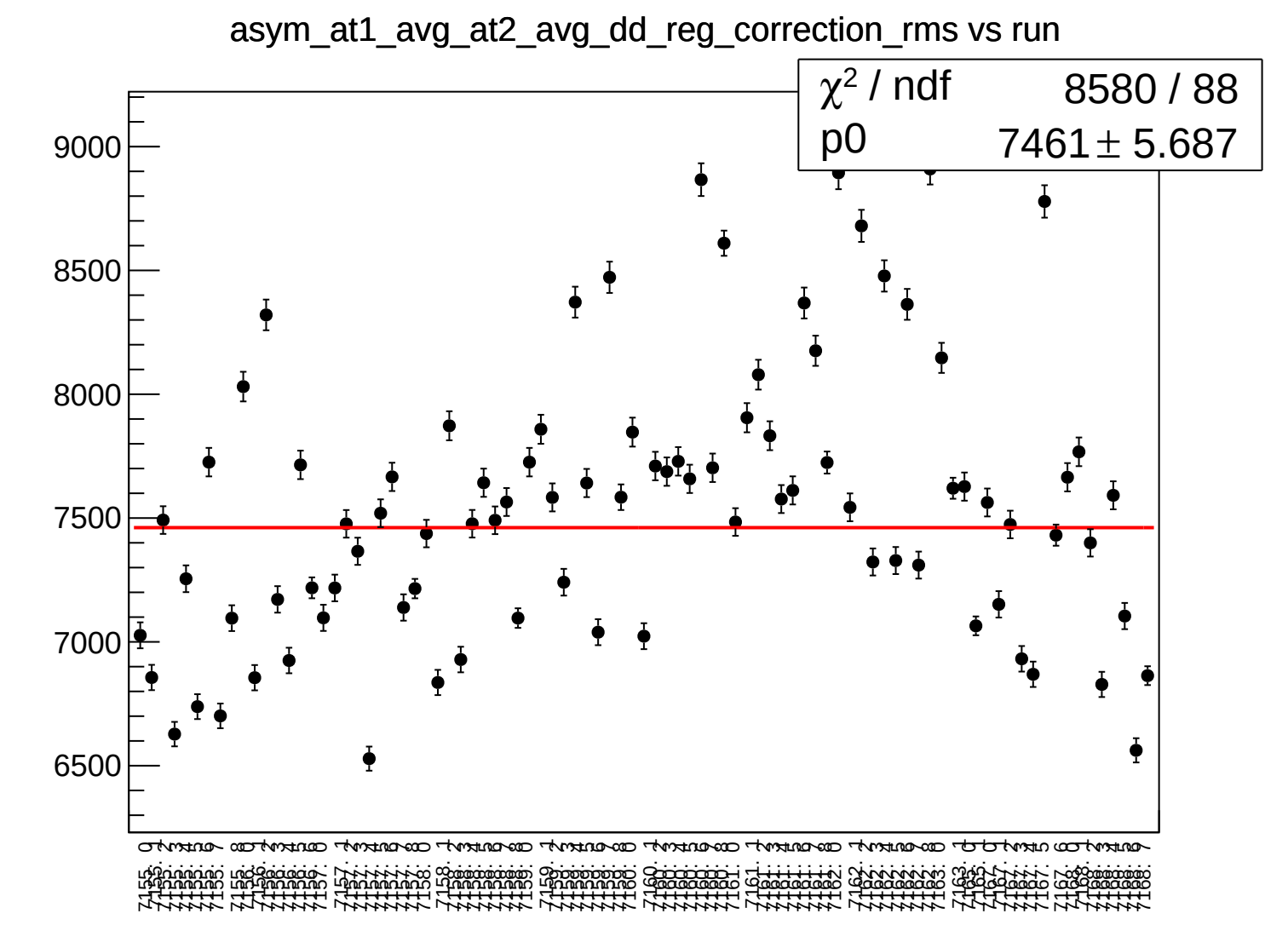

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 108.5 / 88
p0 16.11 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.3
Std Dev 0
3
2
1
0
−1
−2

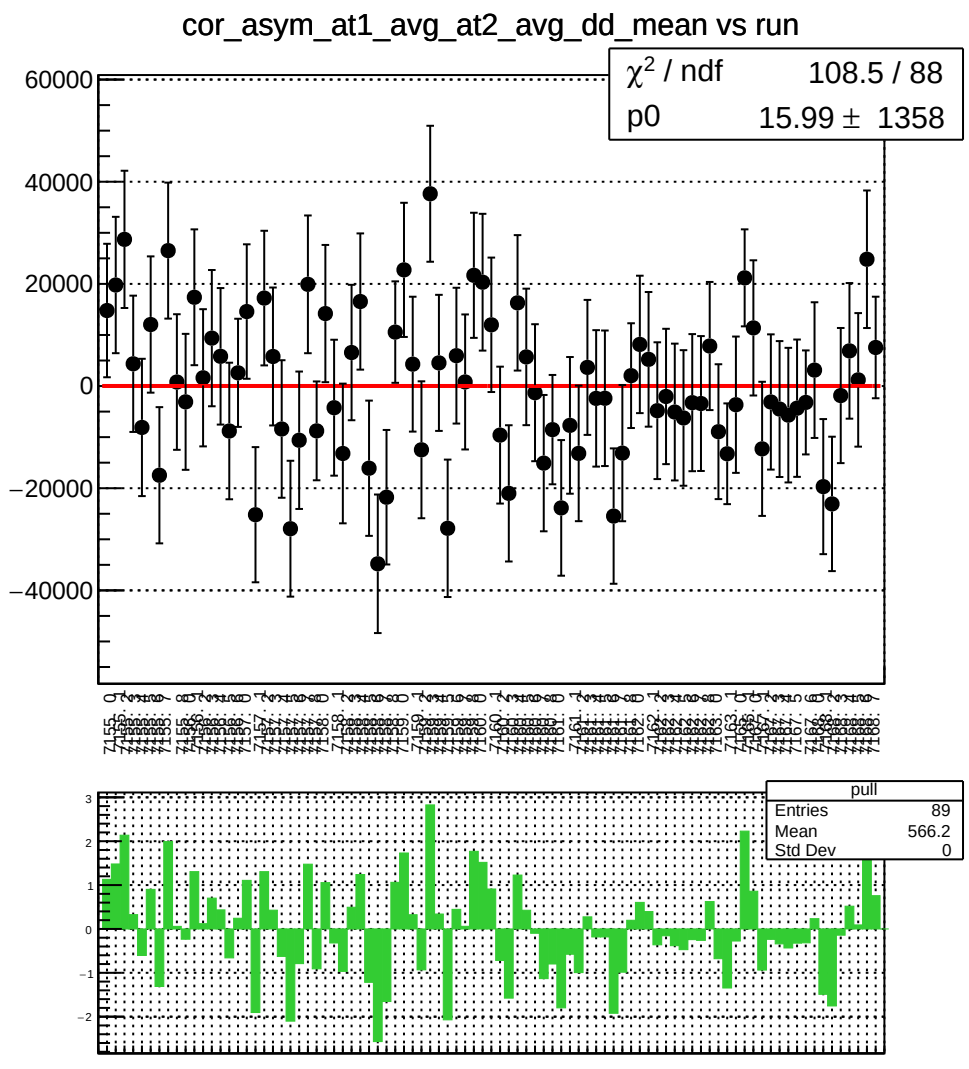

pull1D
Entries 89
Mean −0.008597
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

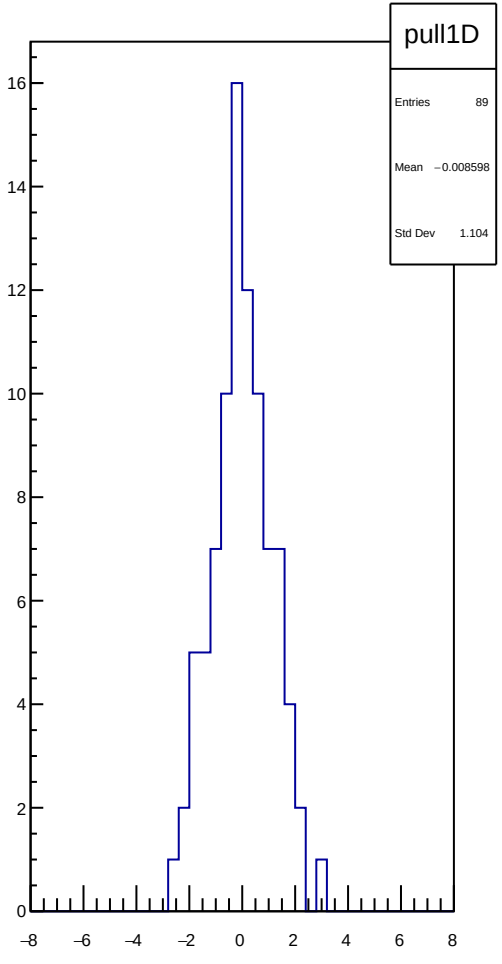

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

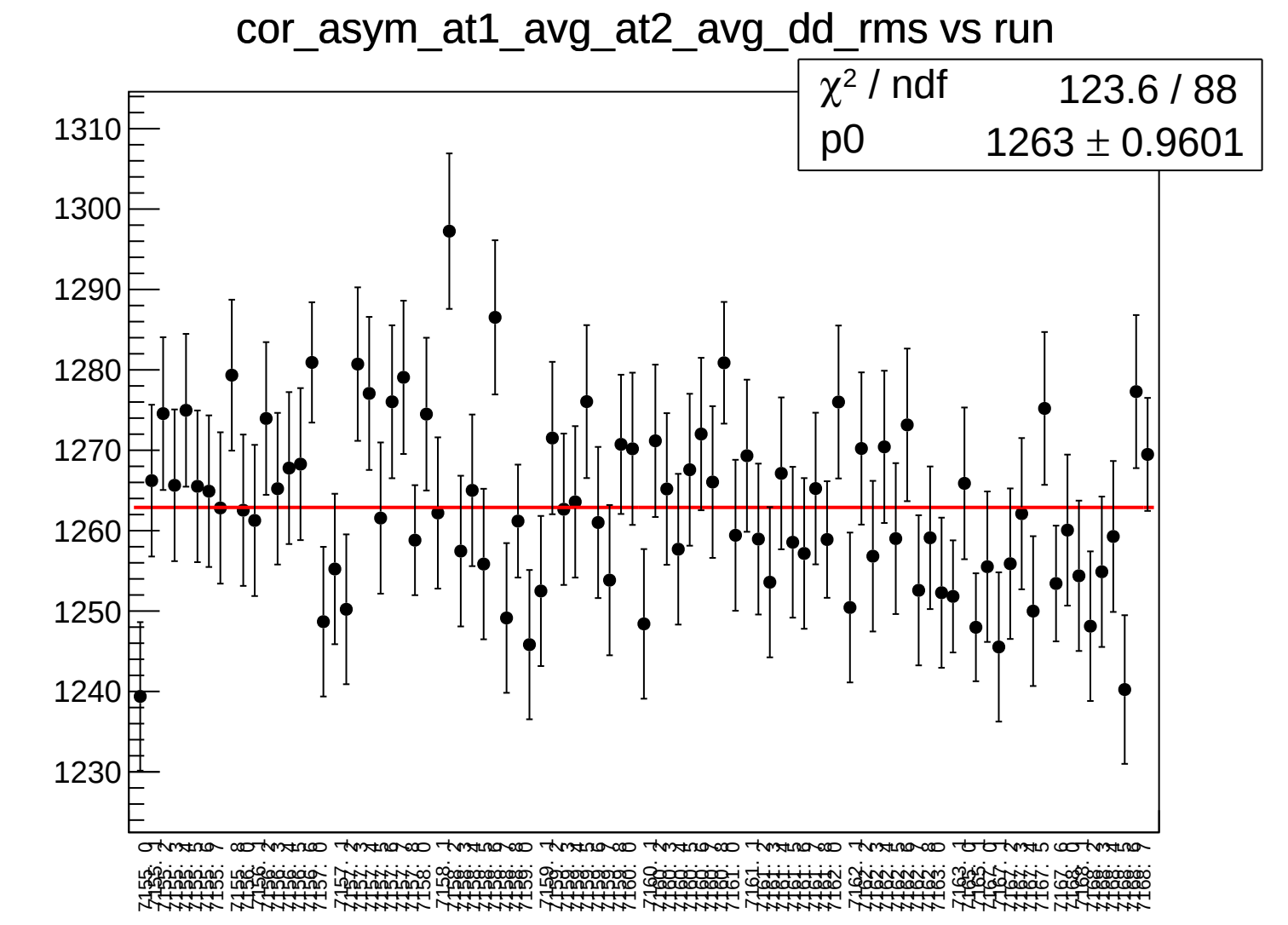

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.17
Std Dev 0
2
1
0
−1
−2

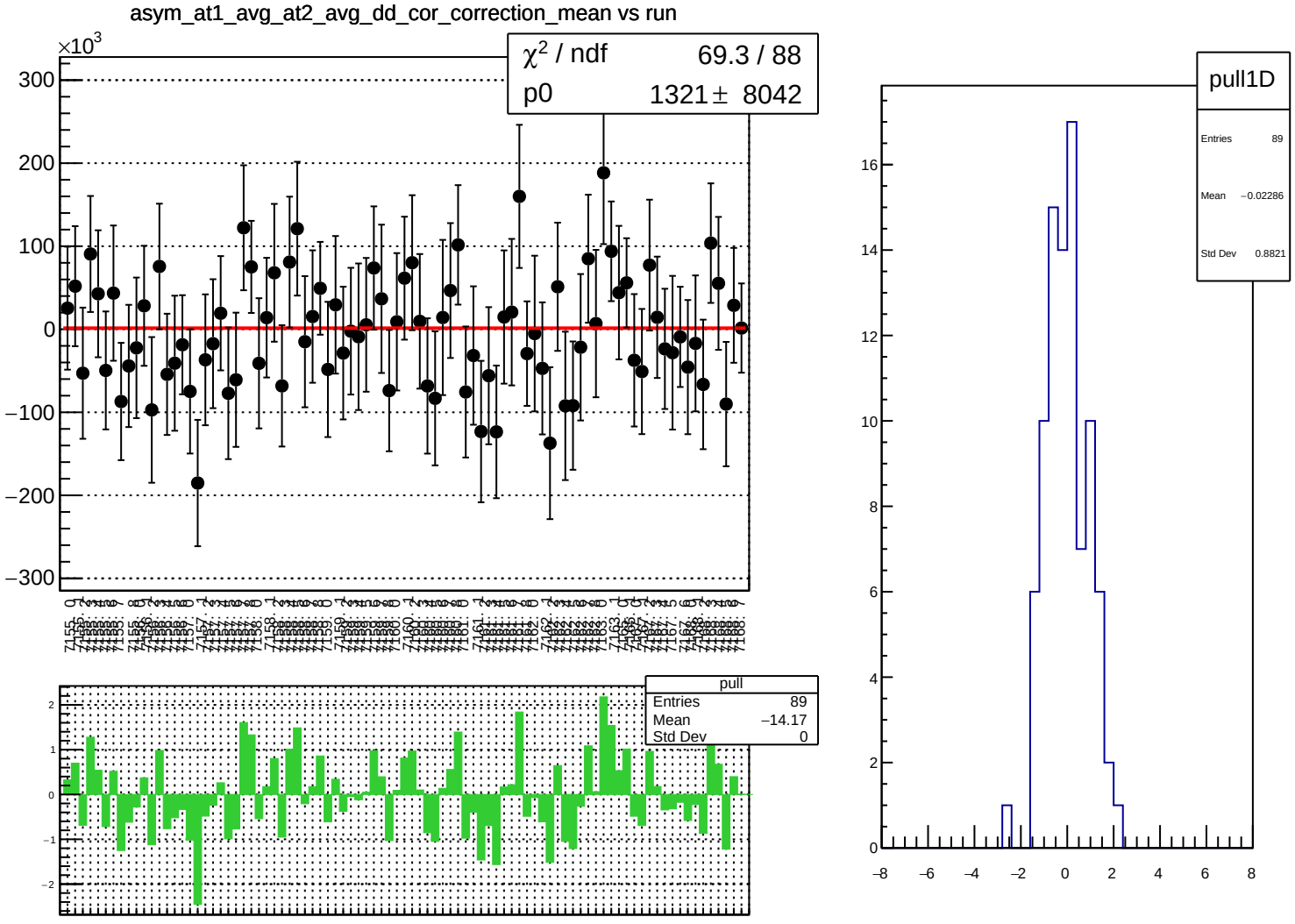

pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

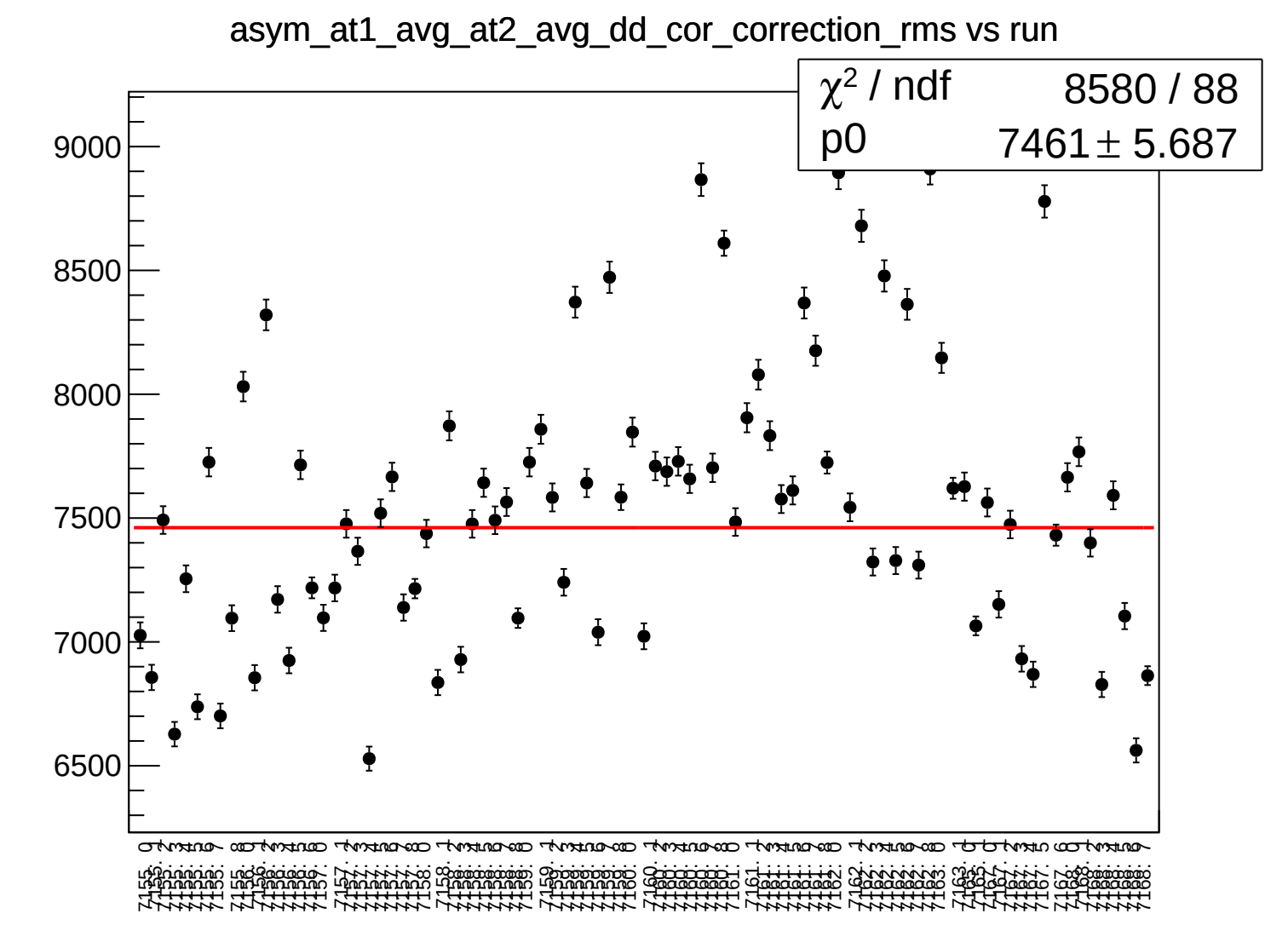

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

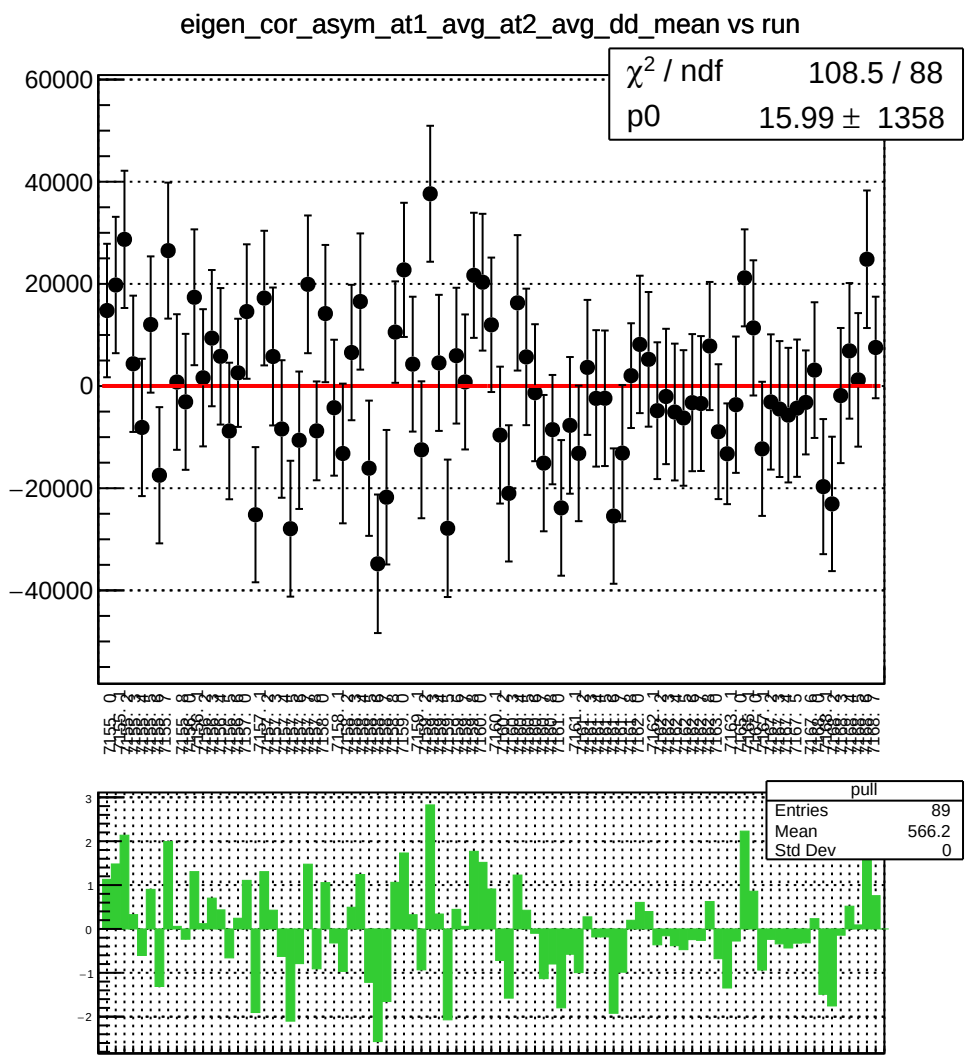

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.2
Std Dev 0
3
2
1
0
−1
−2

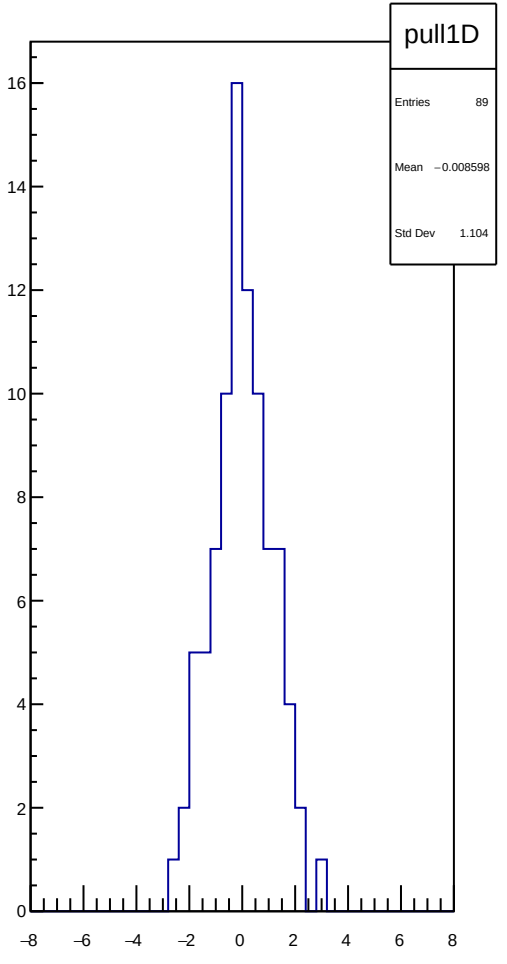

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

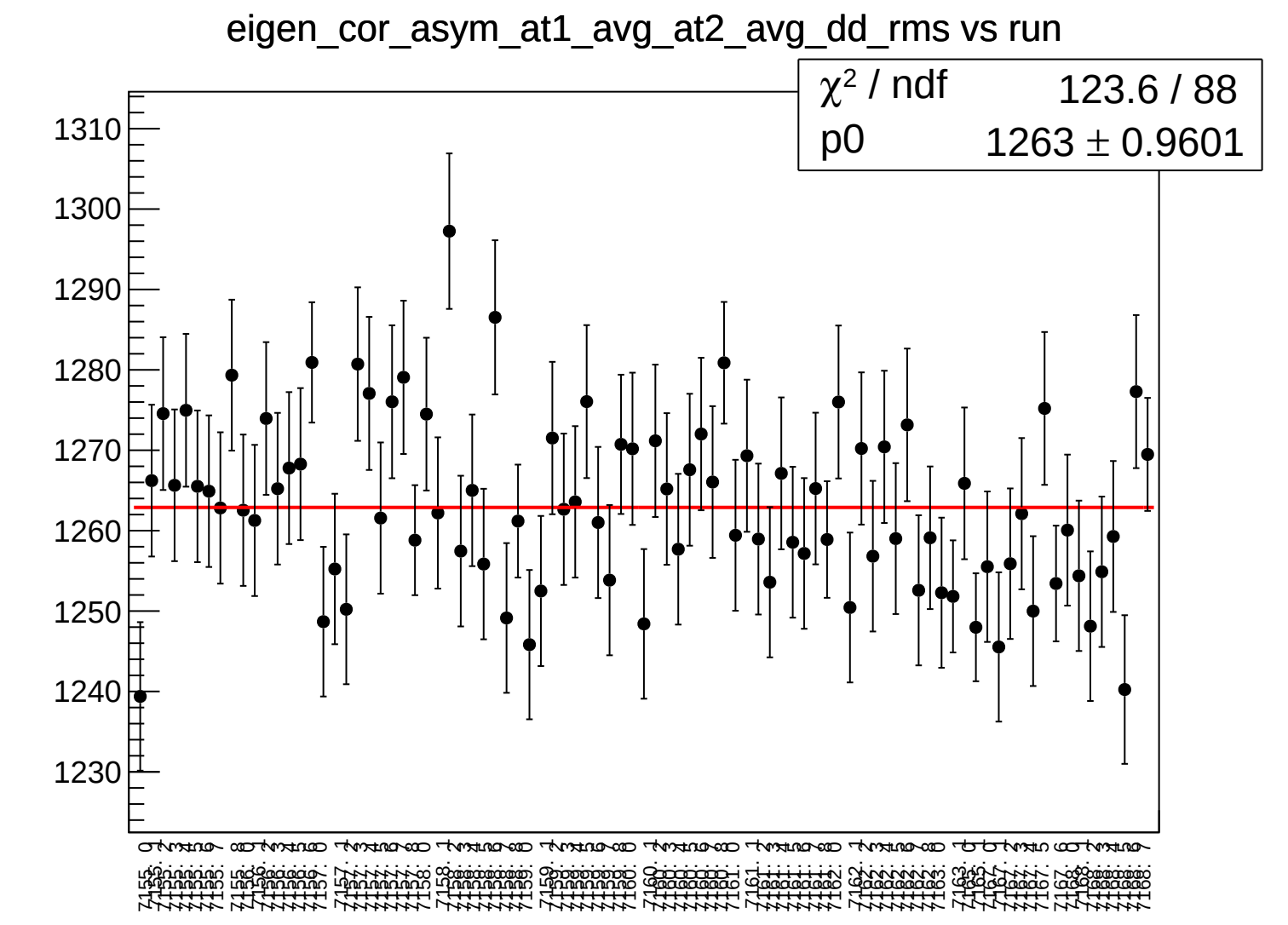

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

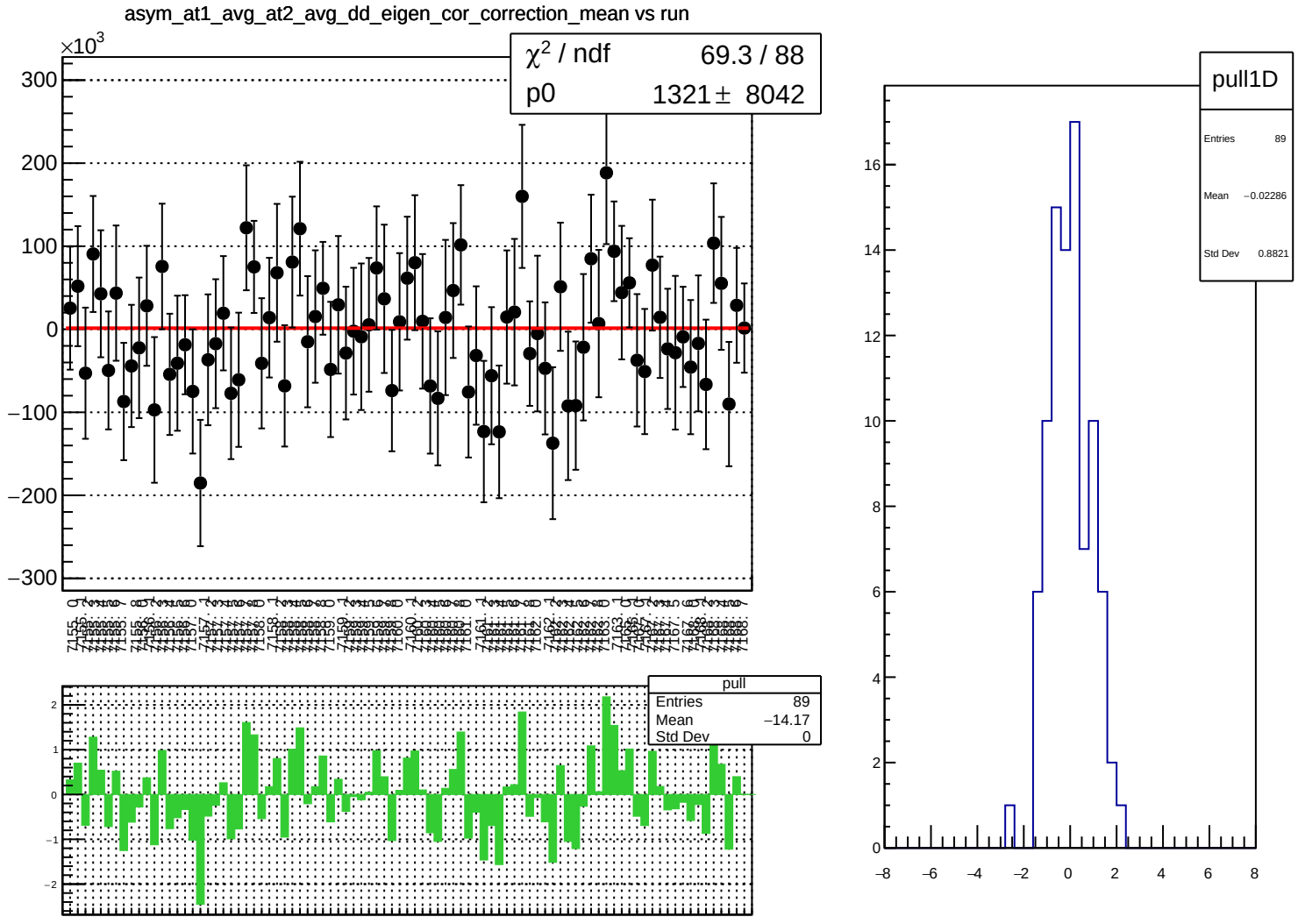

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.17
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

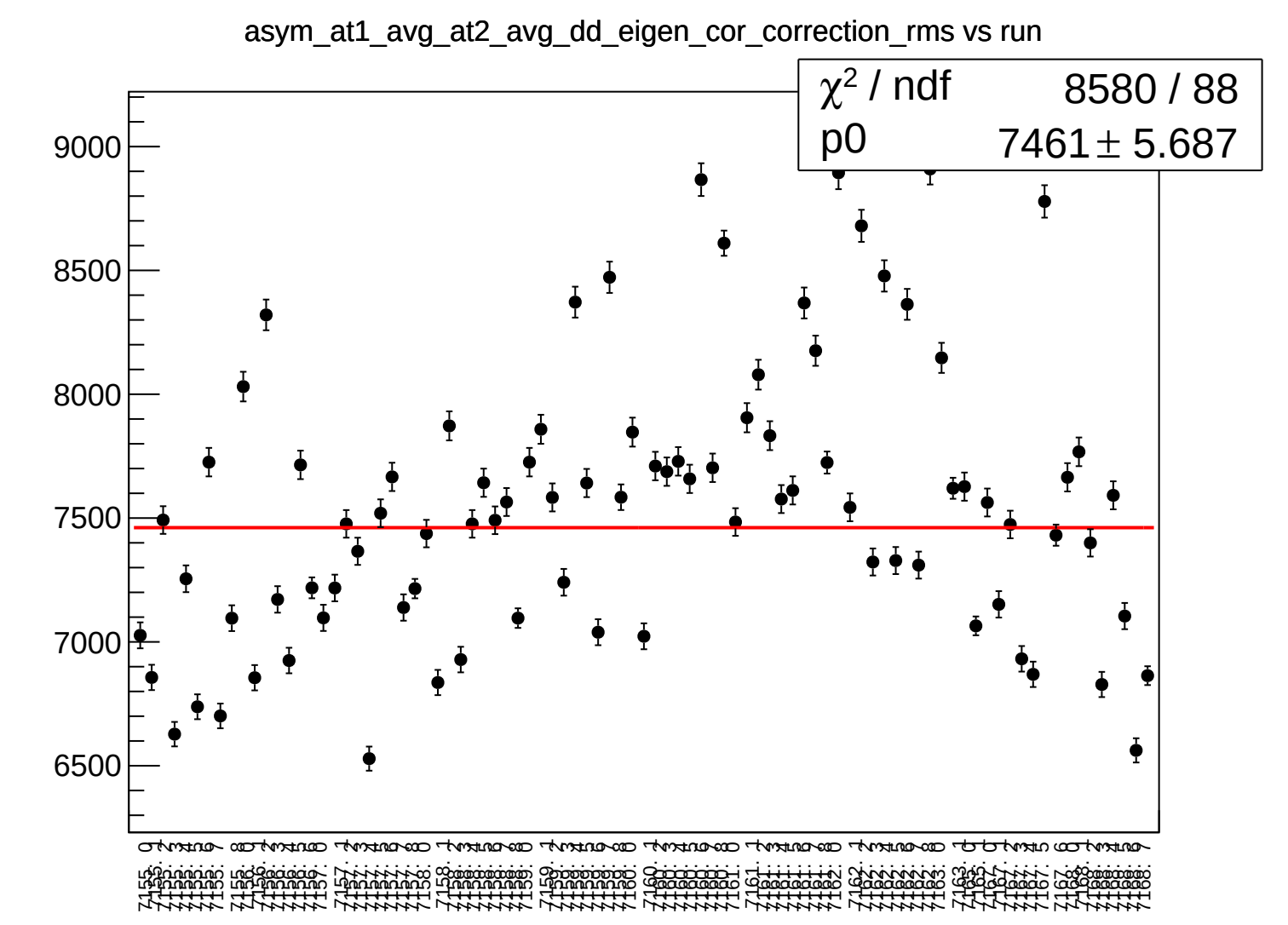

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

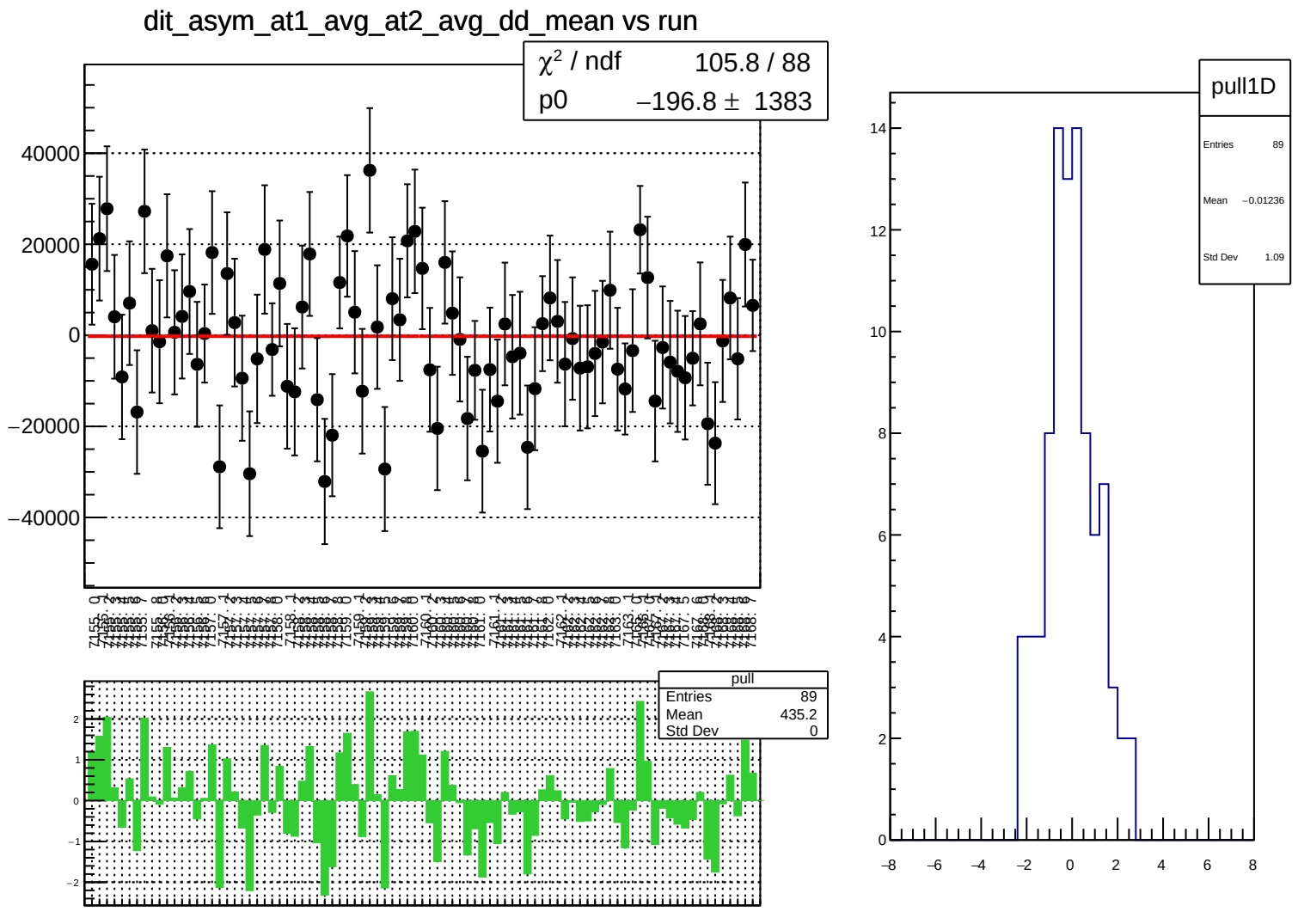

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.2
Std Dev 0
3
2
1
0
−1
−2

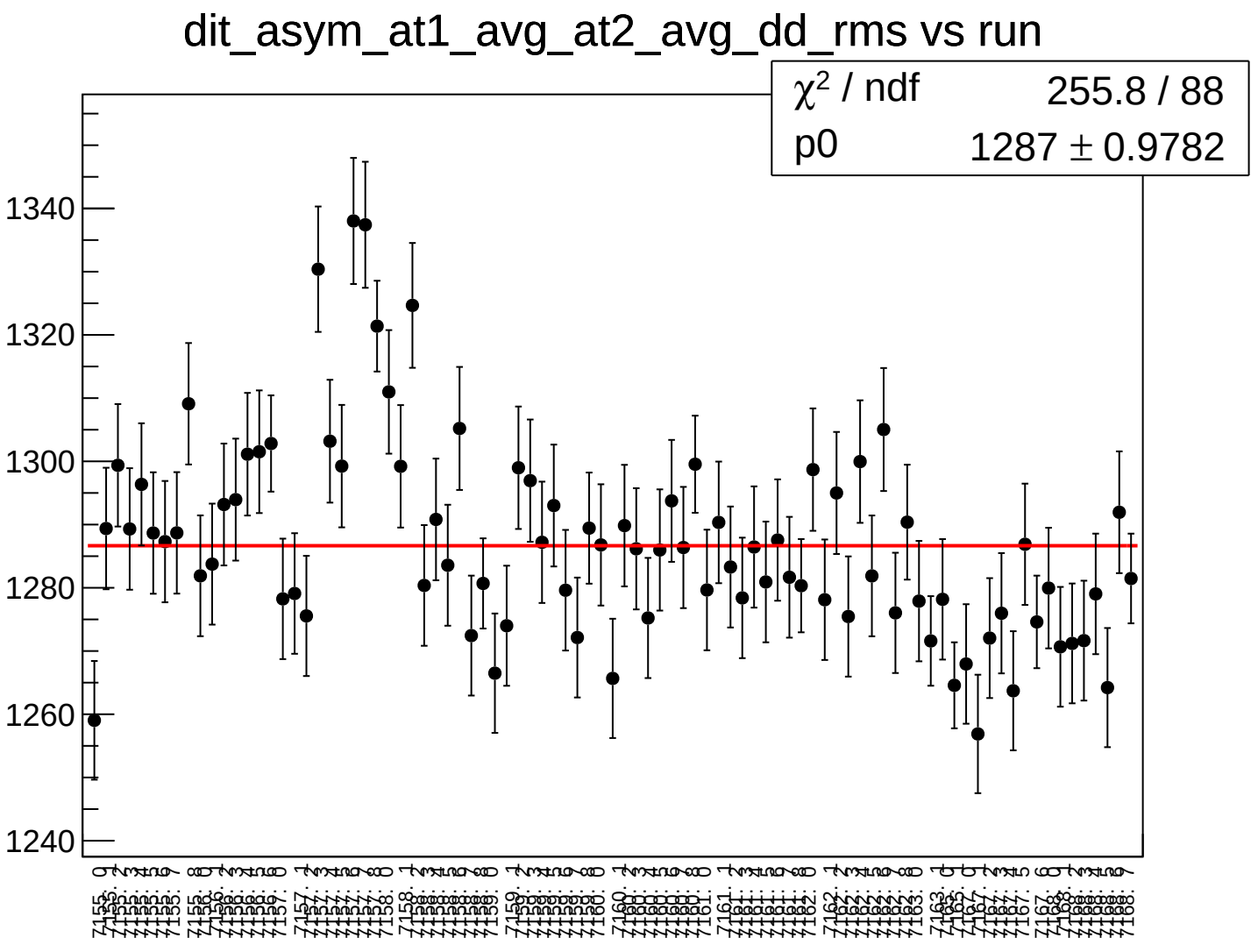

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

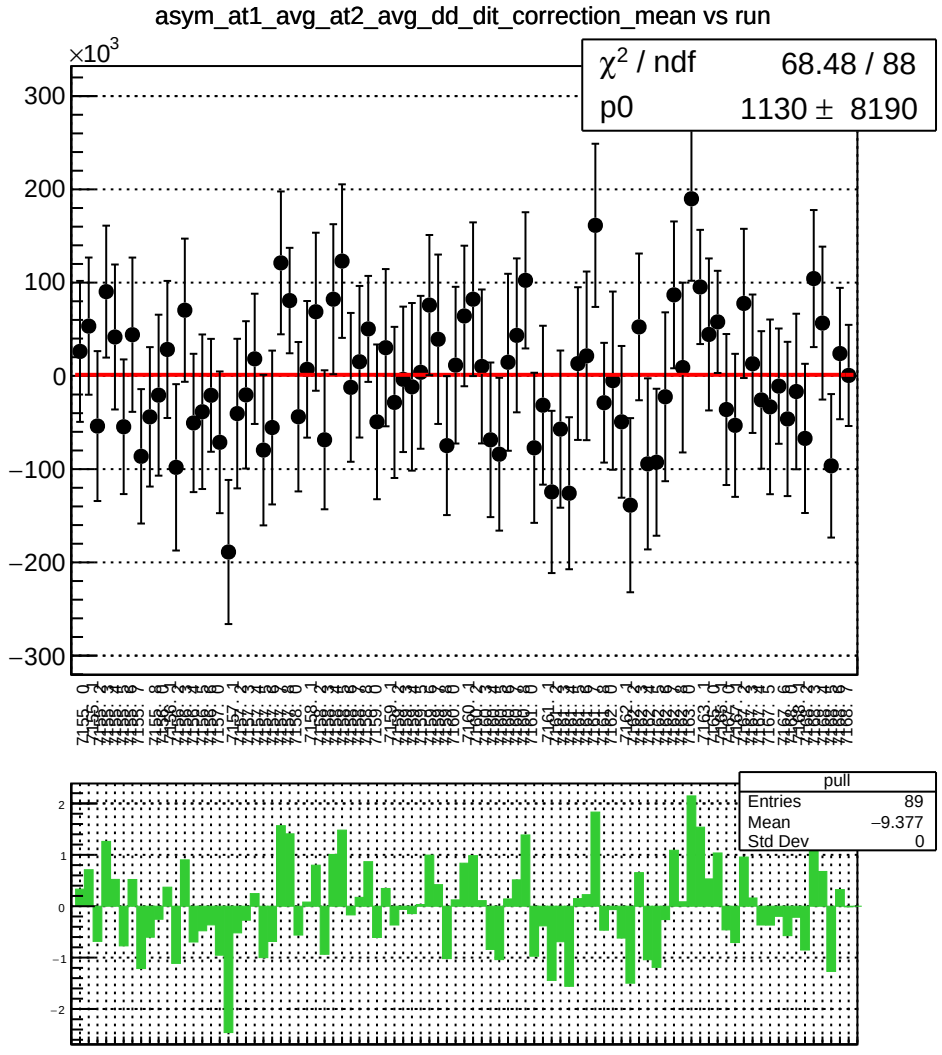

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

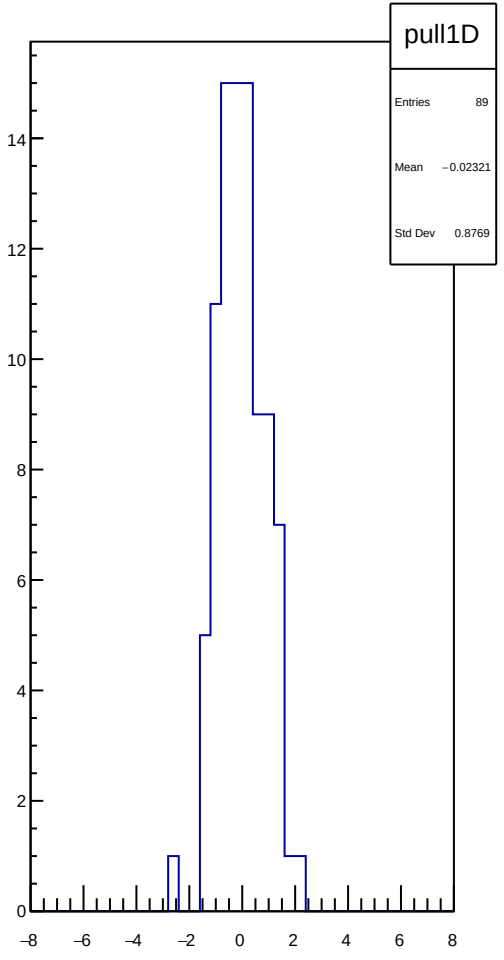

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
pull
Entries 89
Mean −14.17
Std Dev 0
pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821

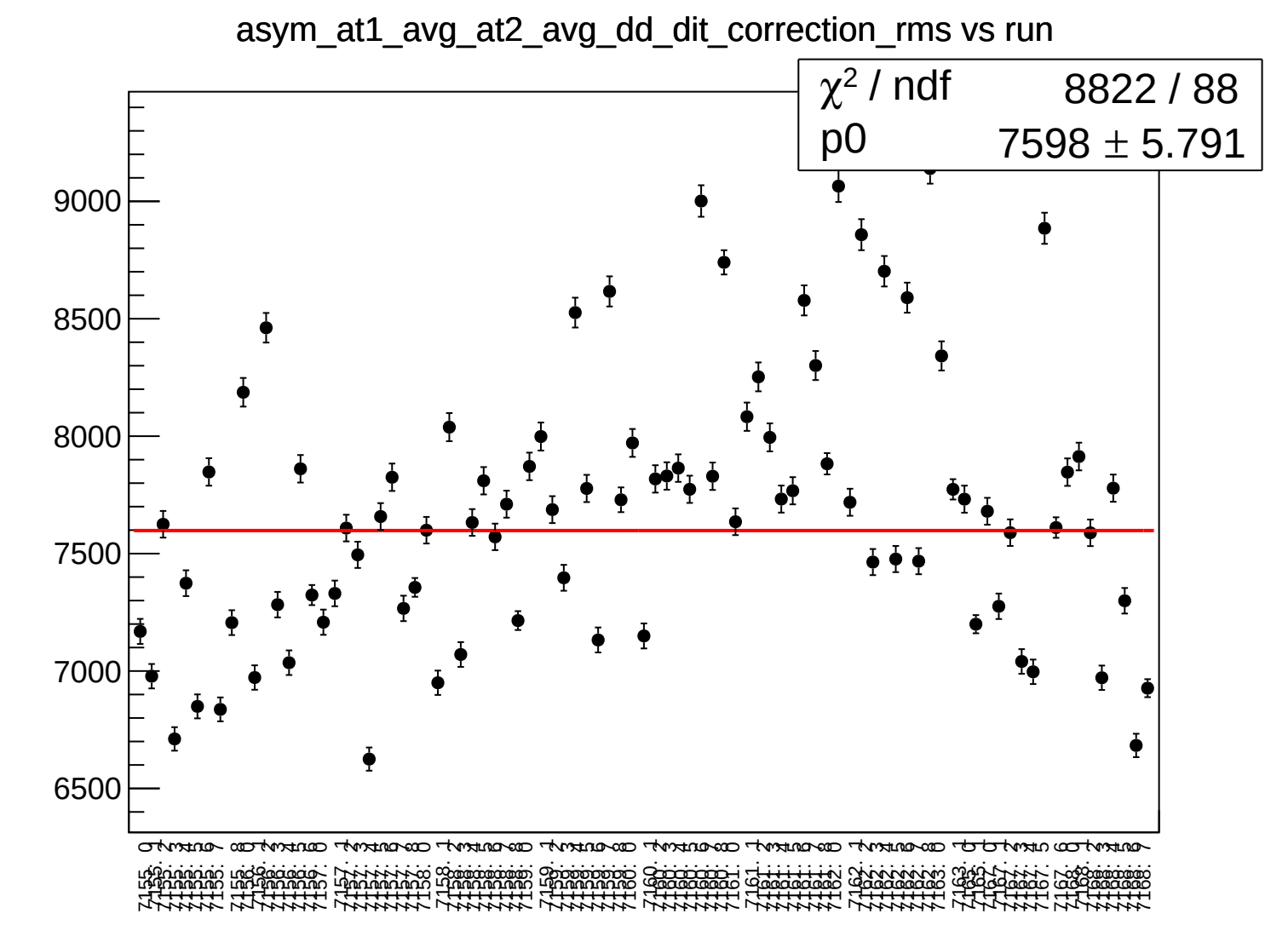

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

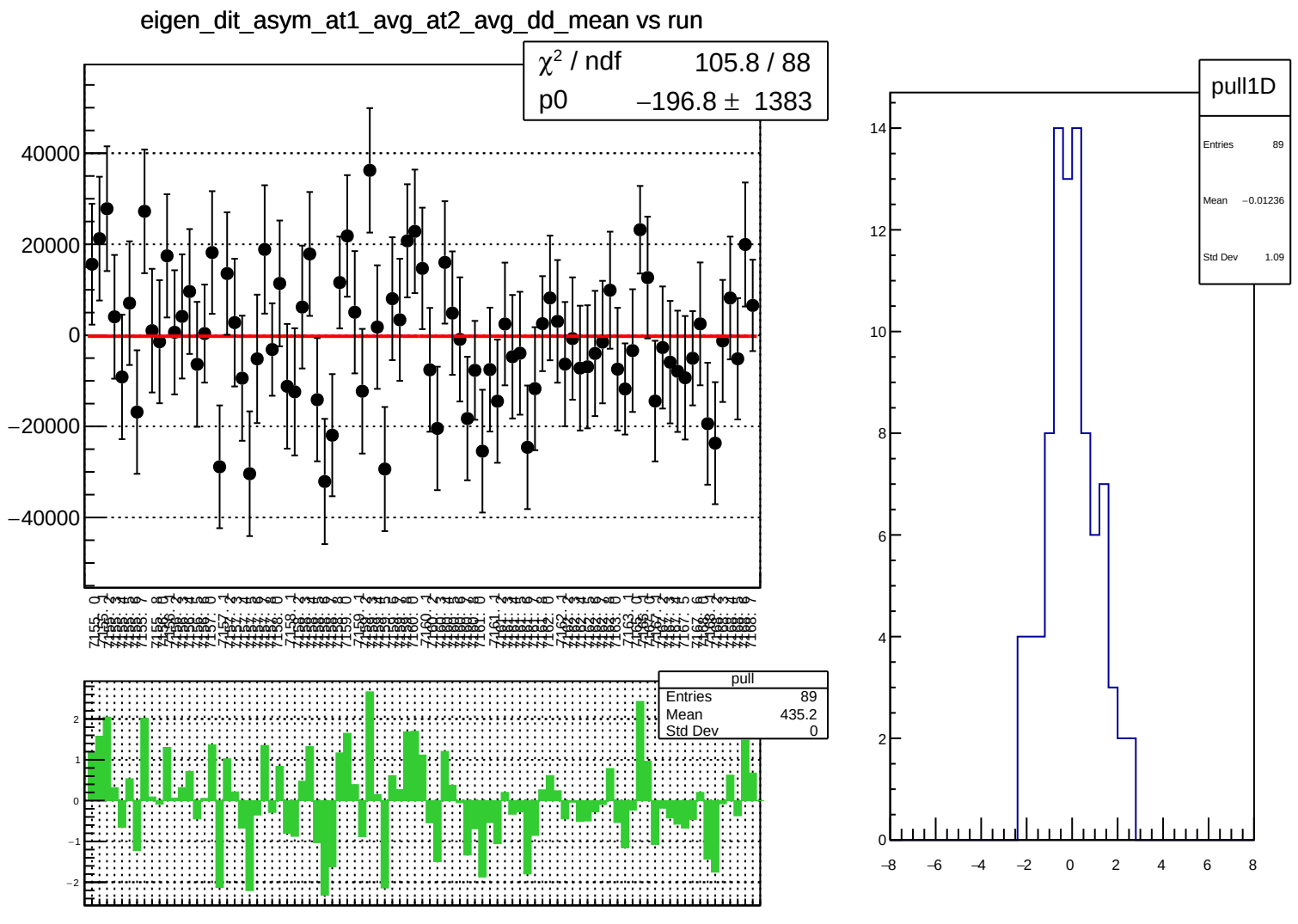

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01236
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

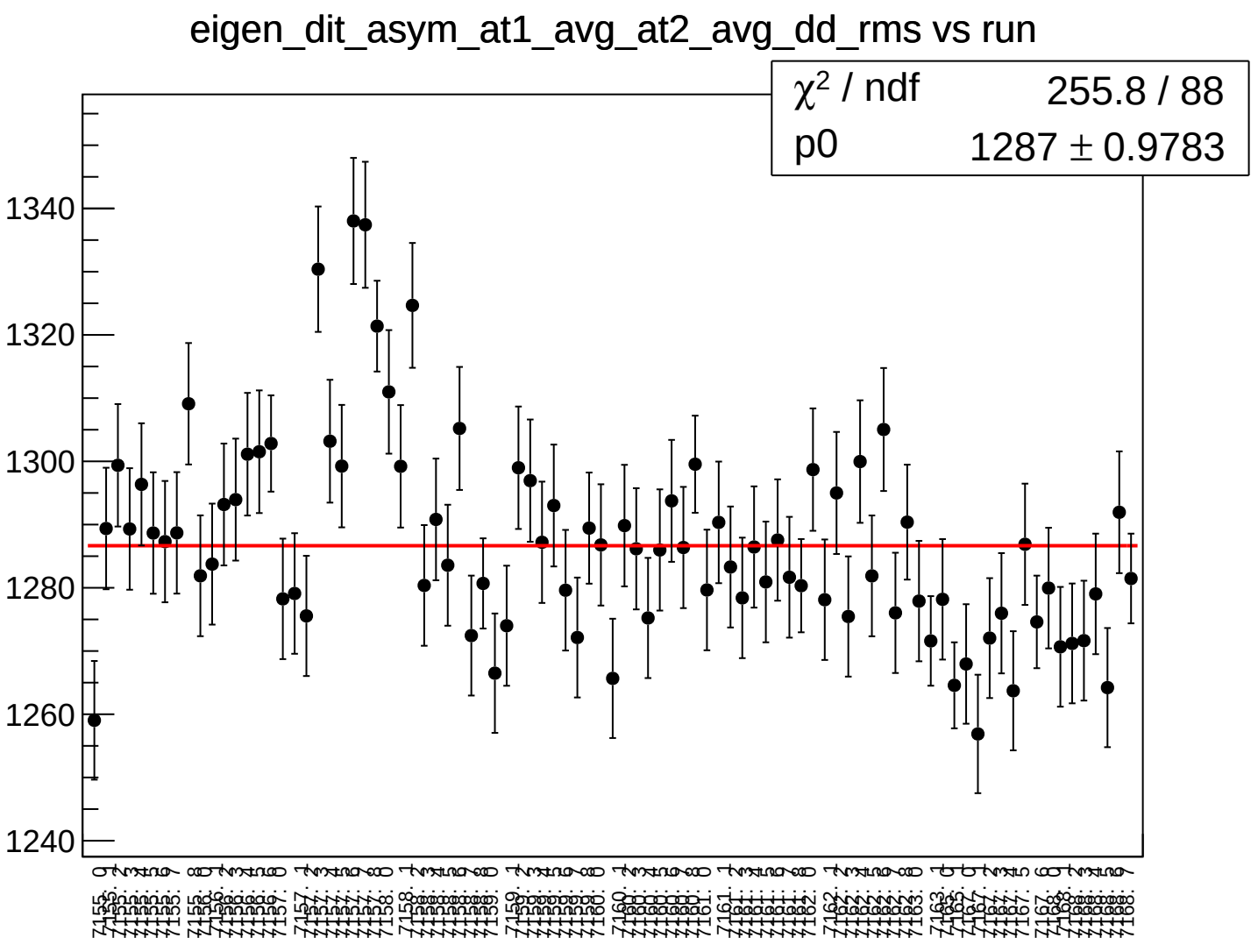

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9782
1340
1320
1300
1280
1260
1240

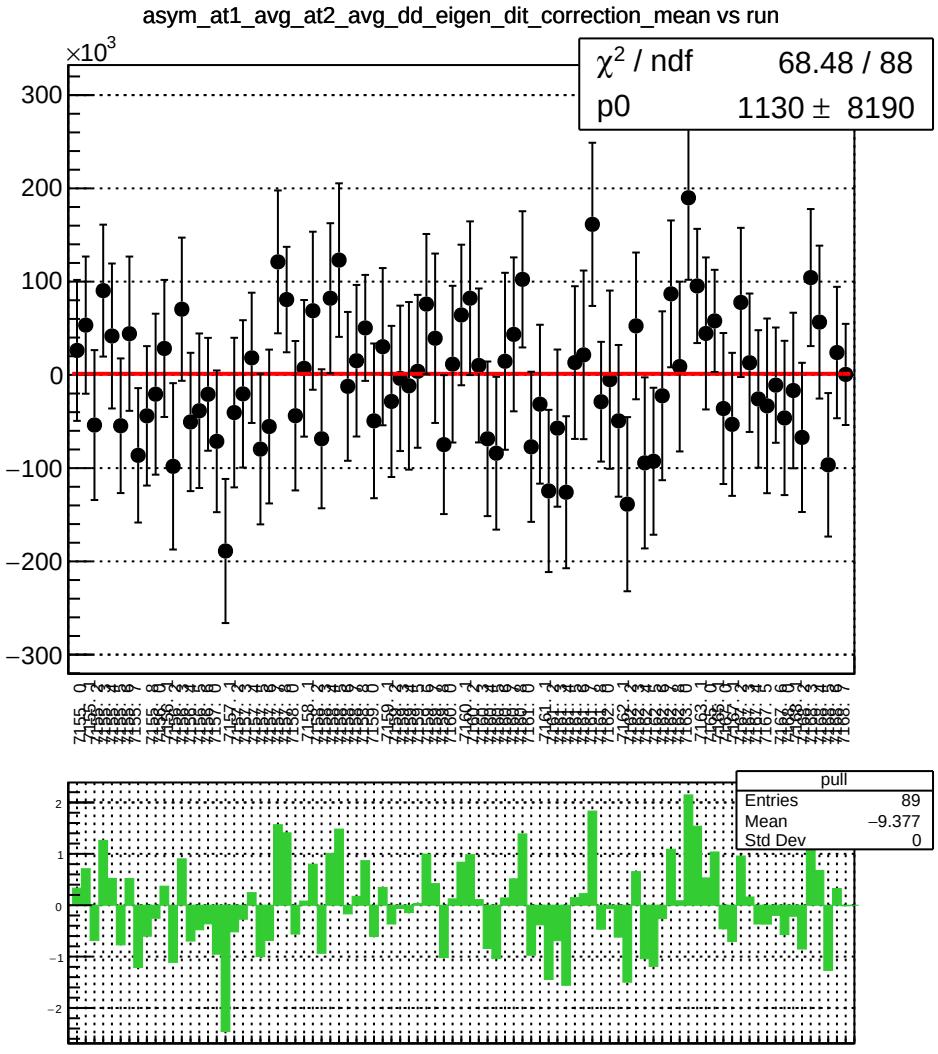

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
pull
Entries 89
Mean −9.377
Std Dev 0

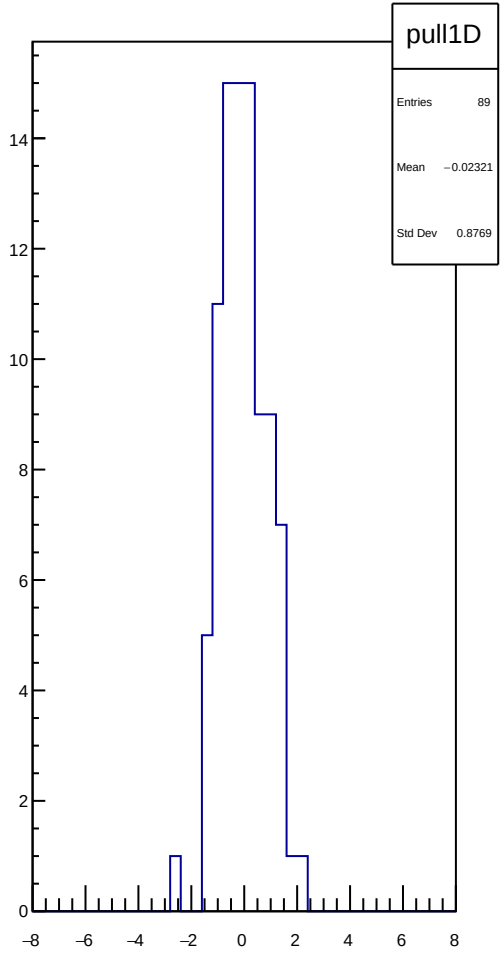

pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769

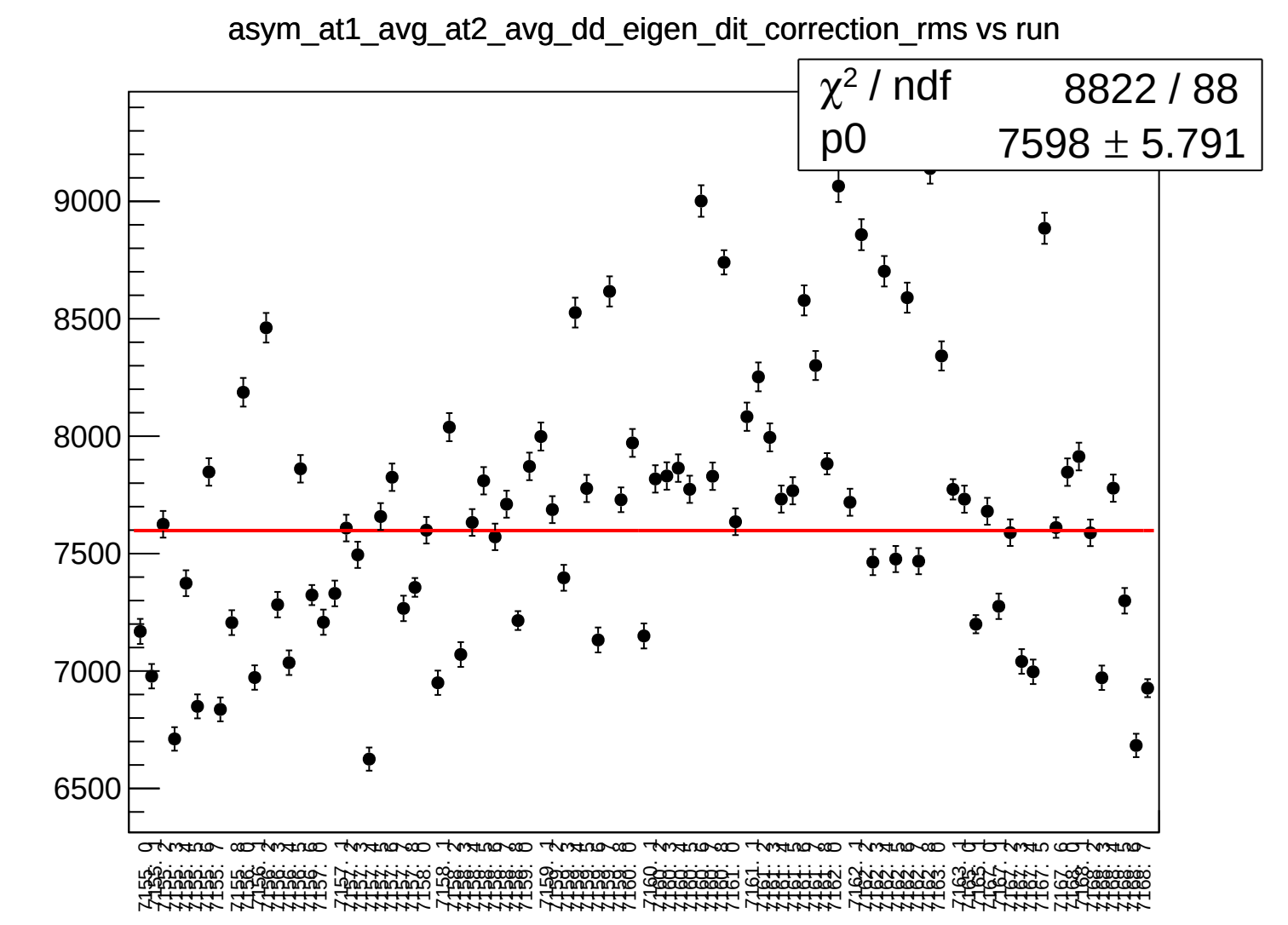

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

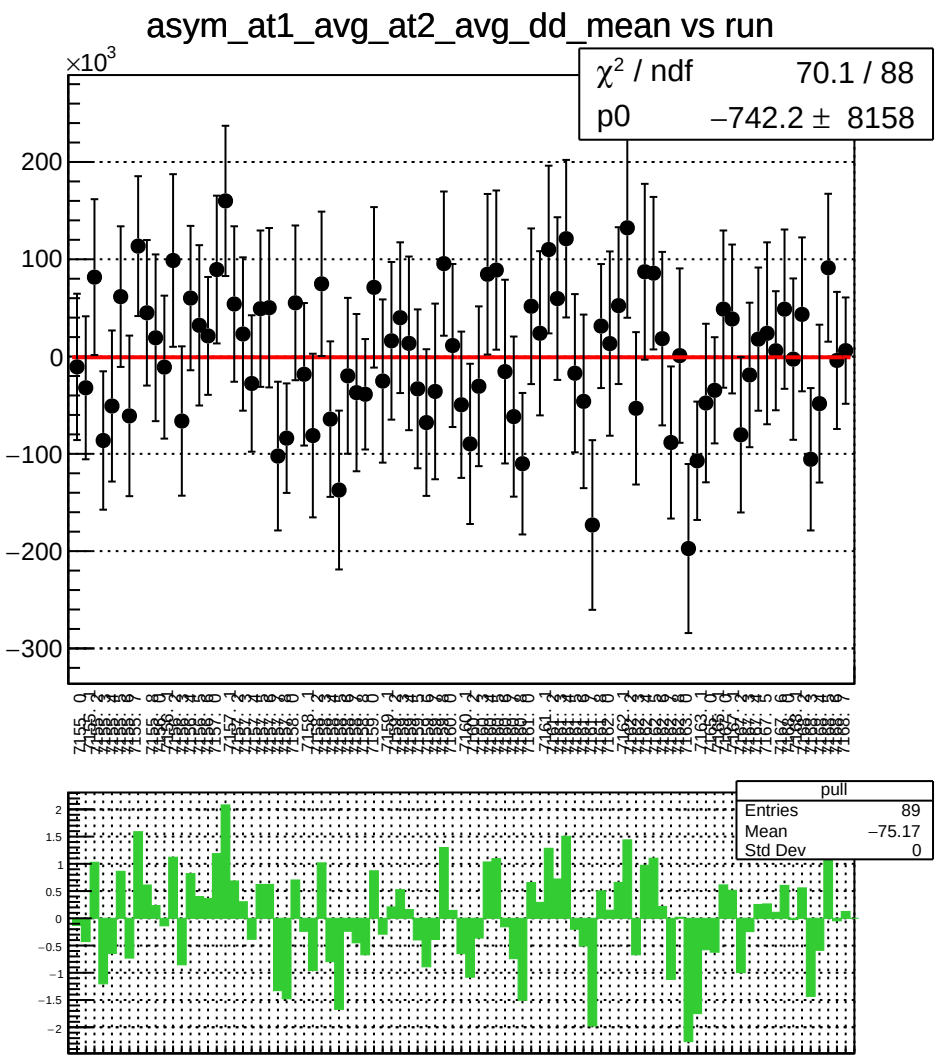

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
pull1D
Entries 89
Mean −0.01236
Std Dev 1.09

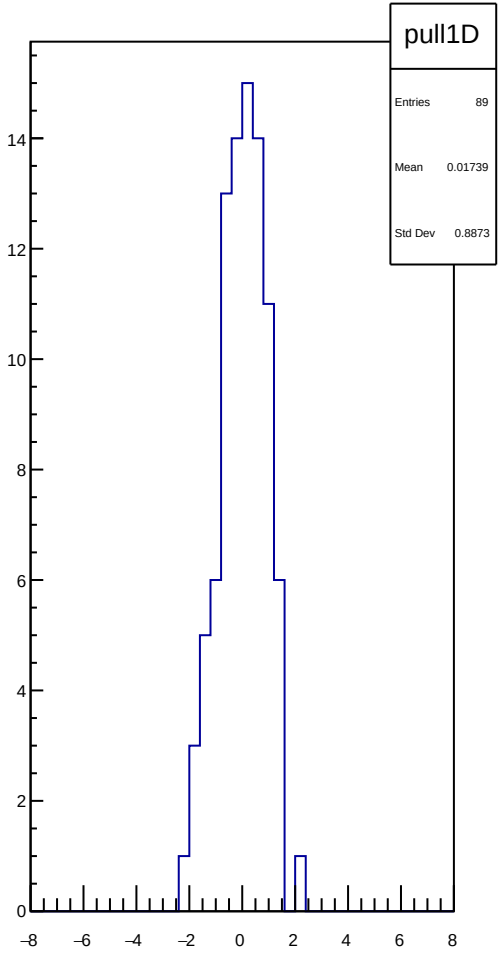

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9783
1340
1320
1300
1280
1260
1240

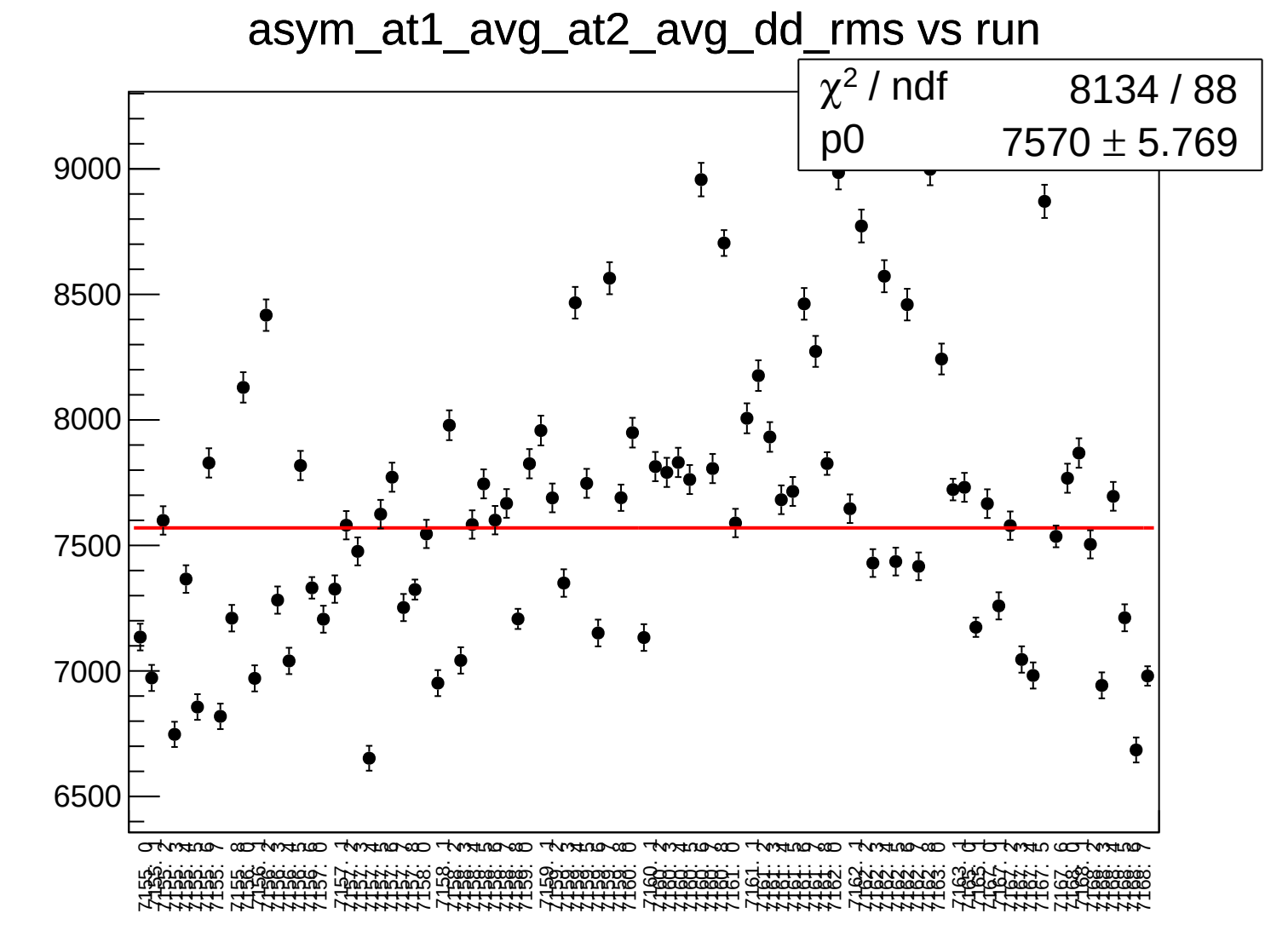

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.377
Std Dev 0
2
1
0
−1
−2

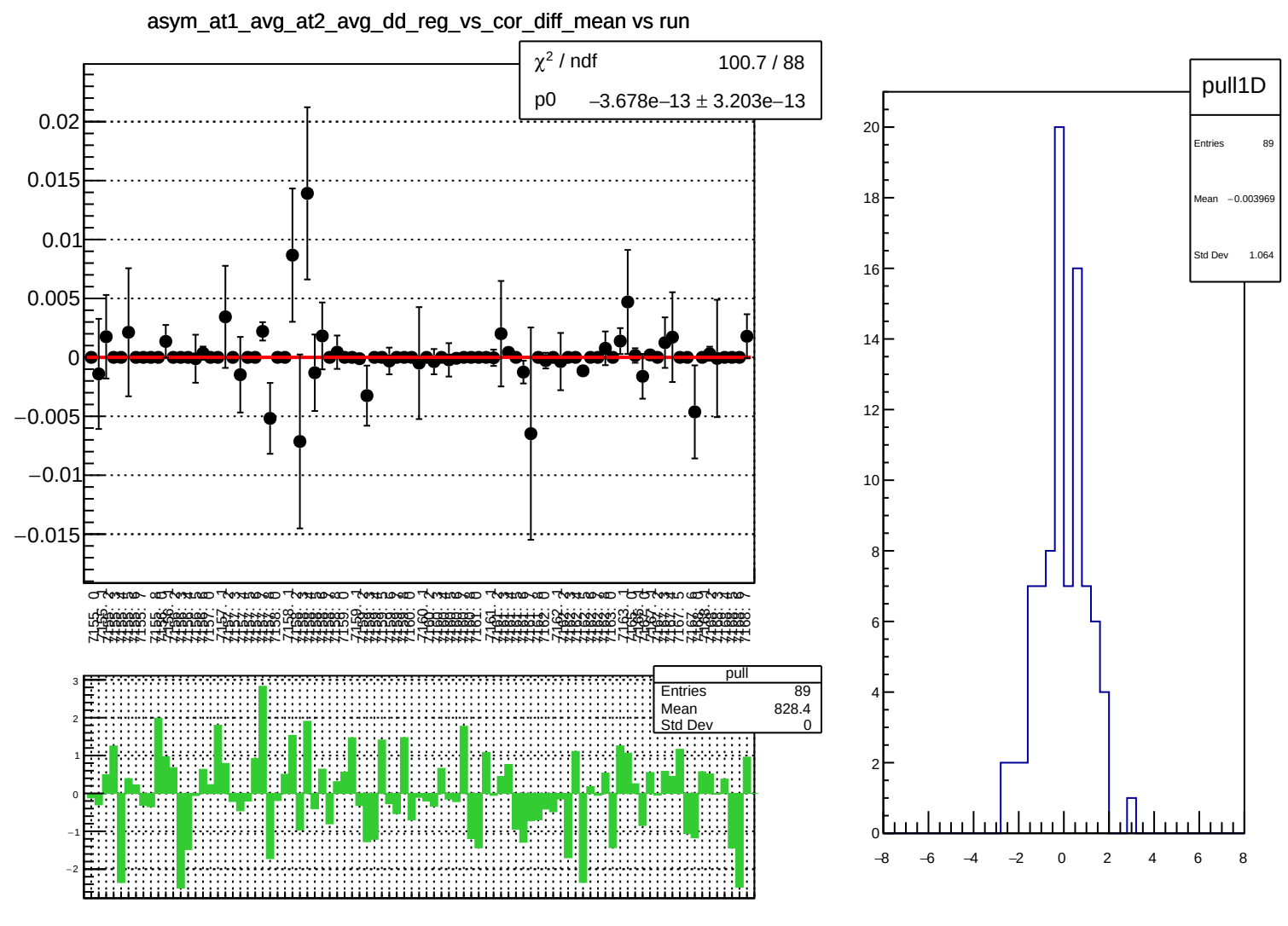

pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

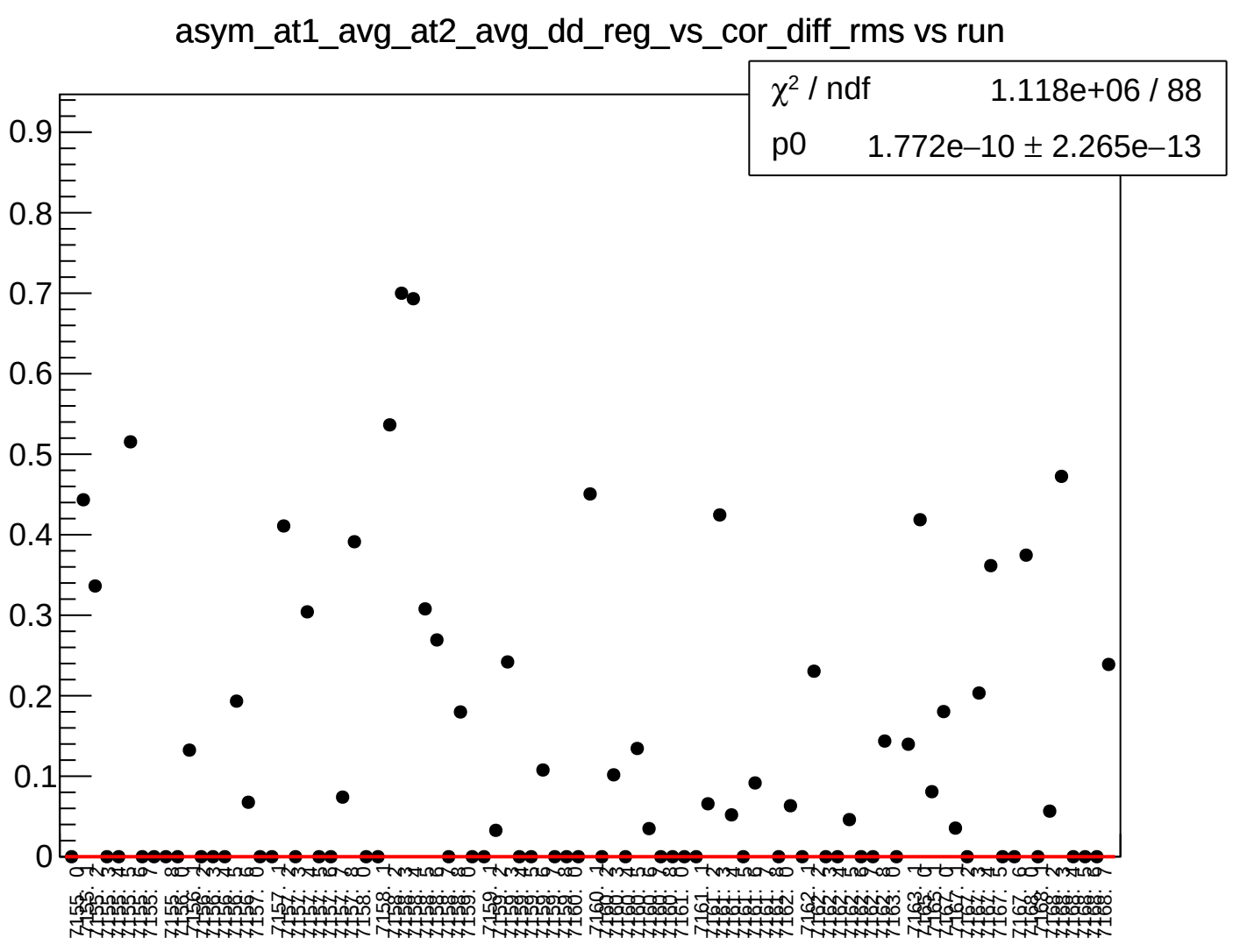

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

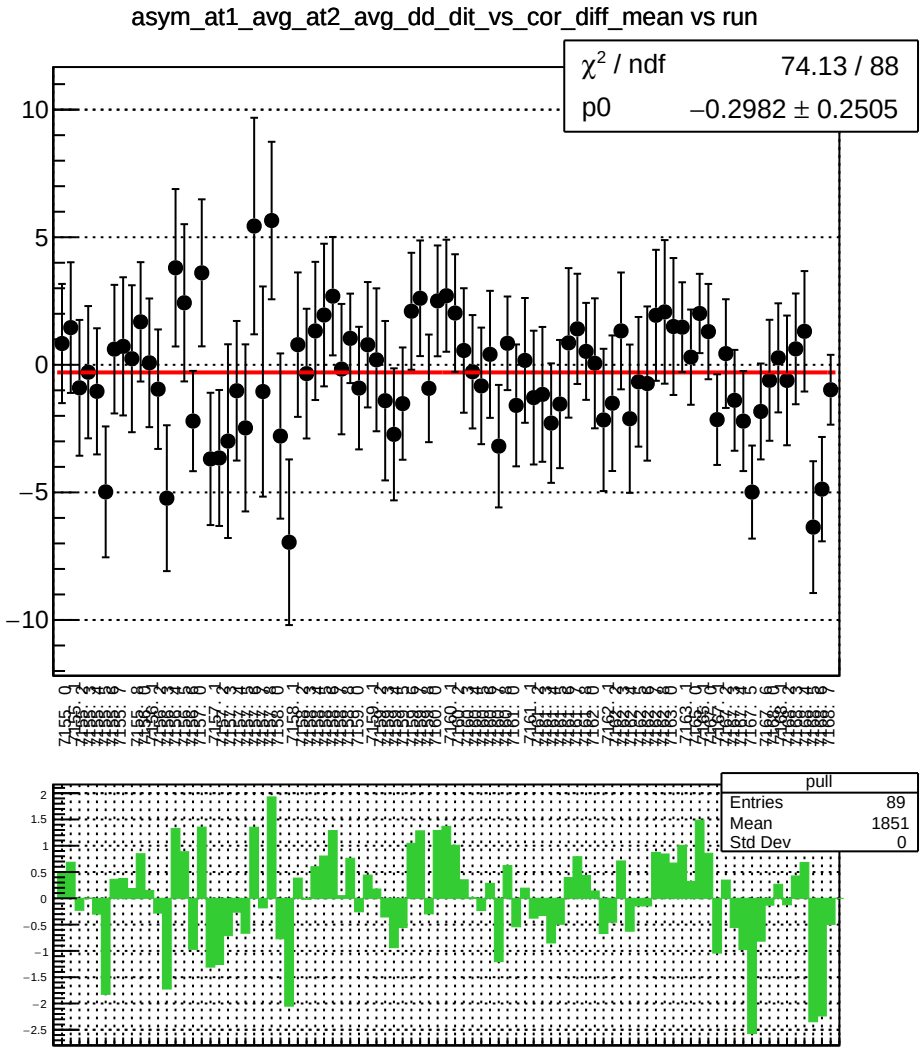

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 70.1 / 88
p0 −742.2 ± 8158
200
100
0
−100
−200
−300
pull
Entries 89
Mean −75.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

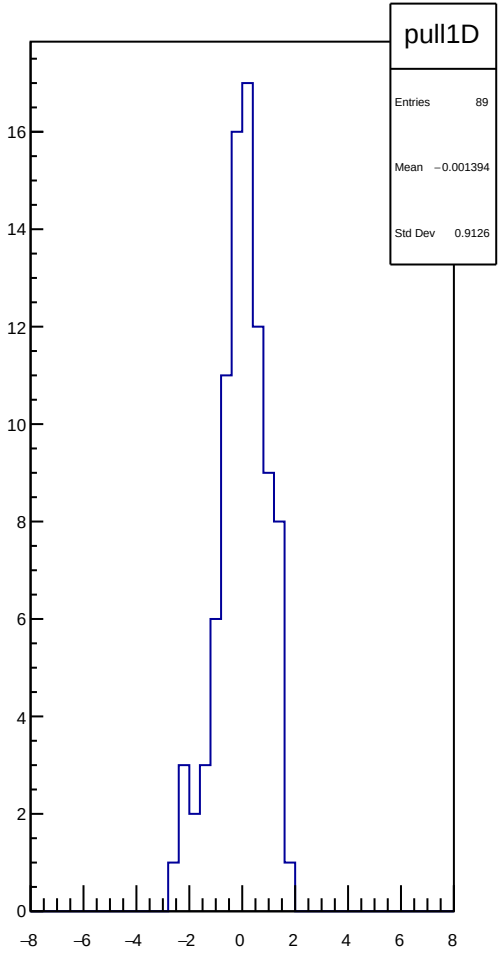

pull1D
Entries 89
Mean 0.01739
Std Dev 0.8873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

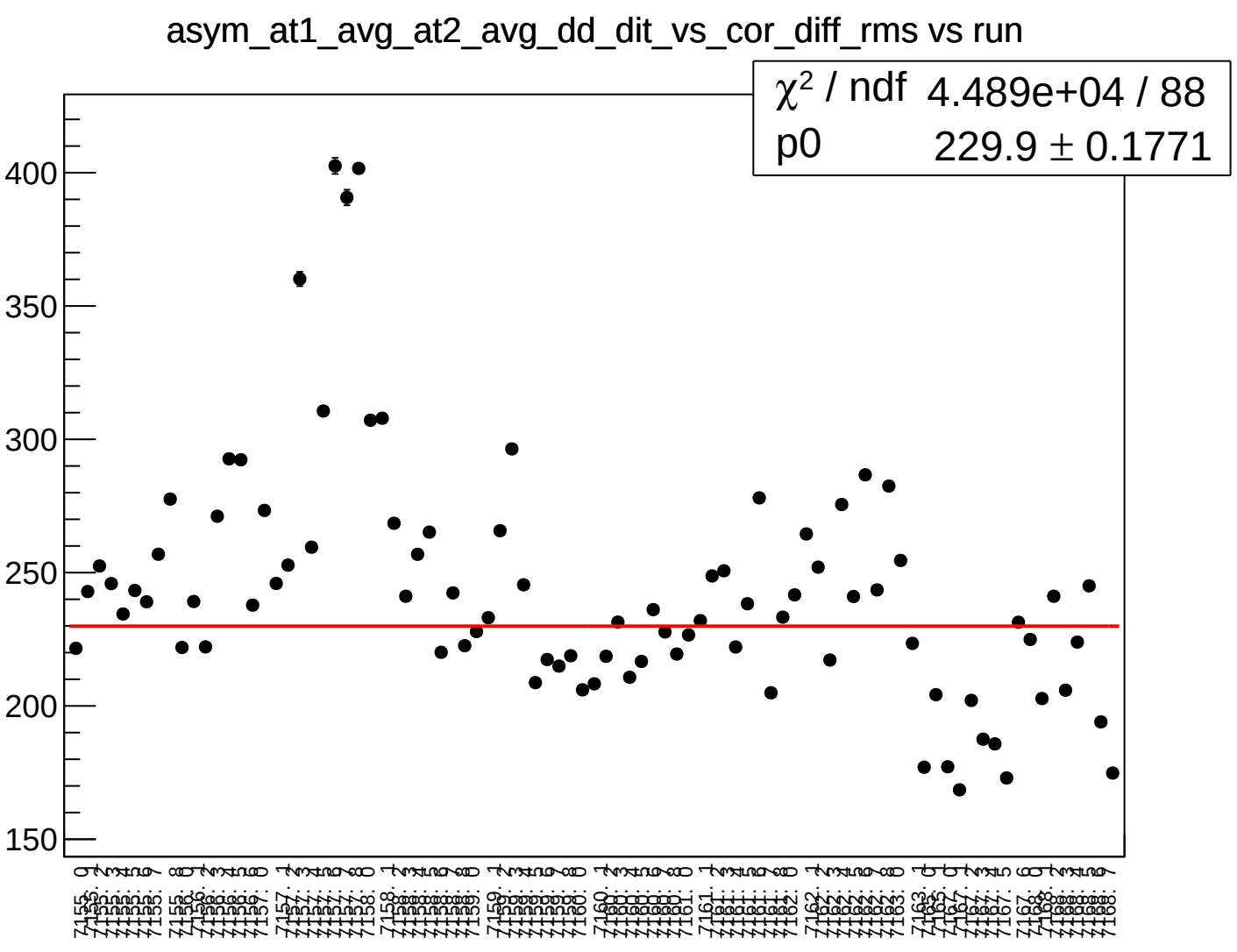

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 8134 / 88
p0 7570 ± 5.769
9000
8500
8000
7500
7000
6500

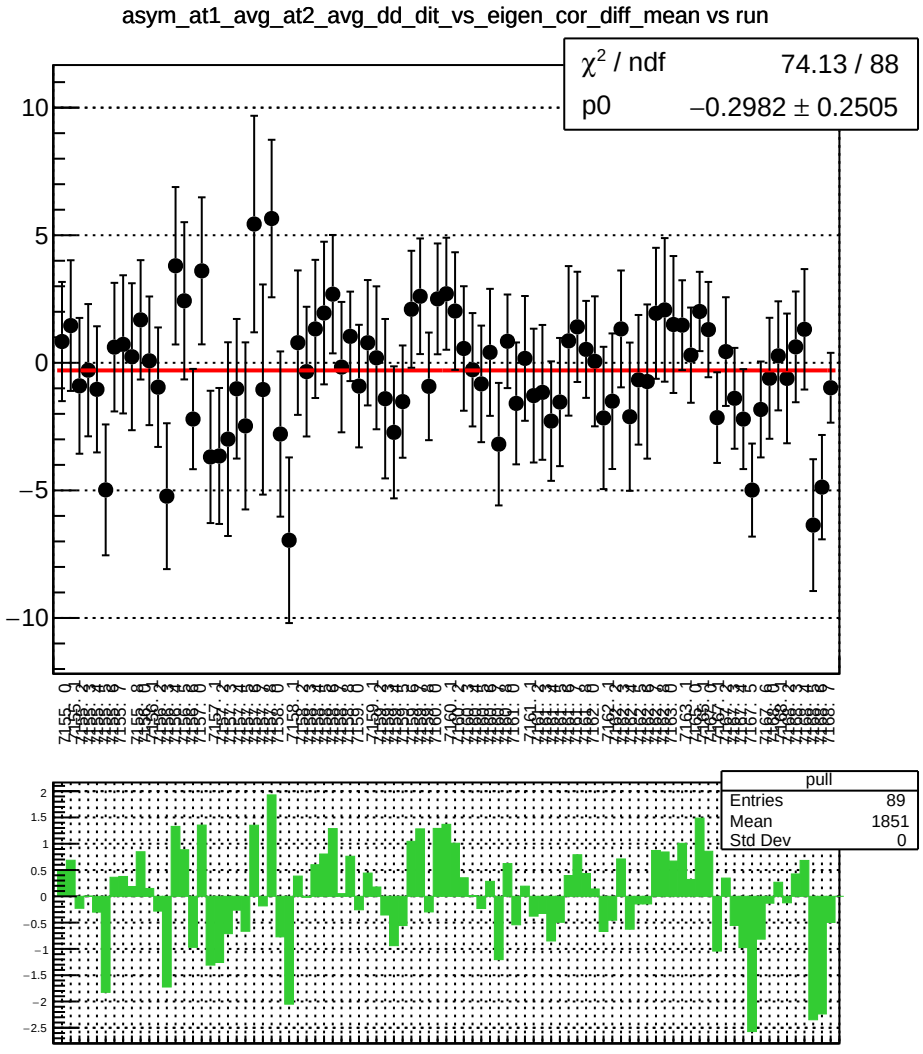

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 −3.678e−13 ± 3.203e−13
pull
Entries 89
Mean 828.4
Std Dev 0
pull1D
Entries 89
Mean −0.003969
Std Dev 1.064

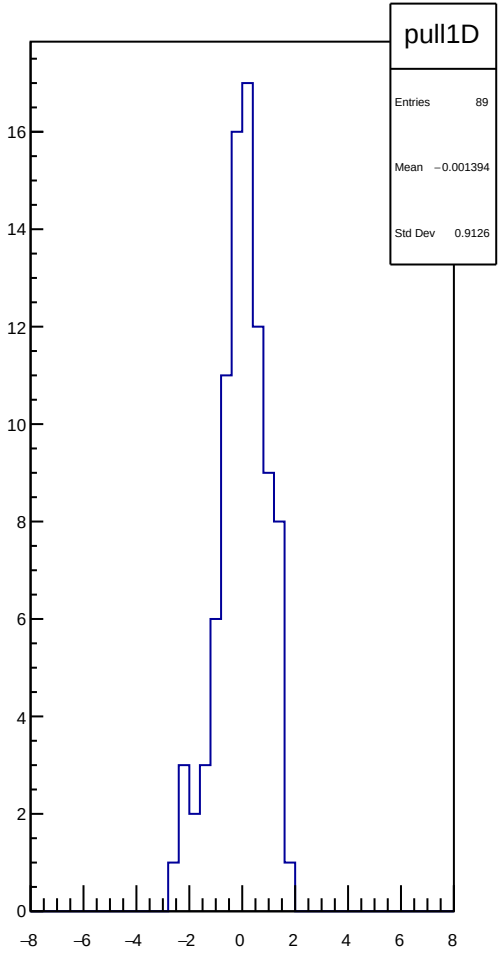

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 88
p0 1.772e−10 ± 2.265e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

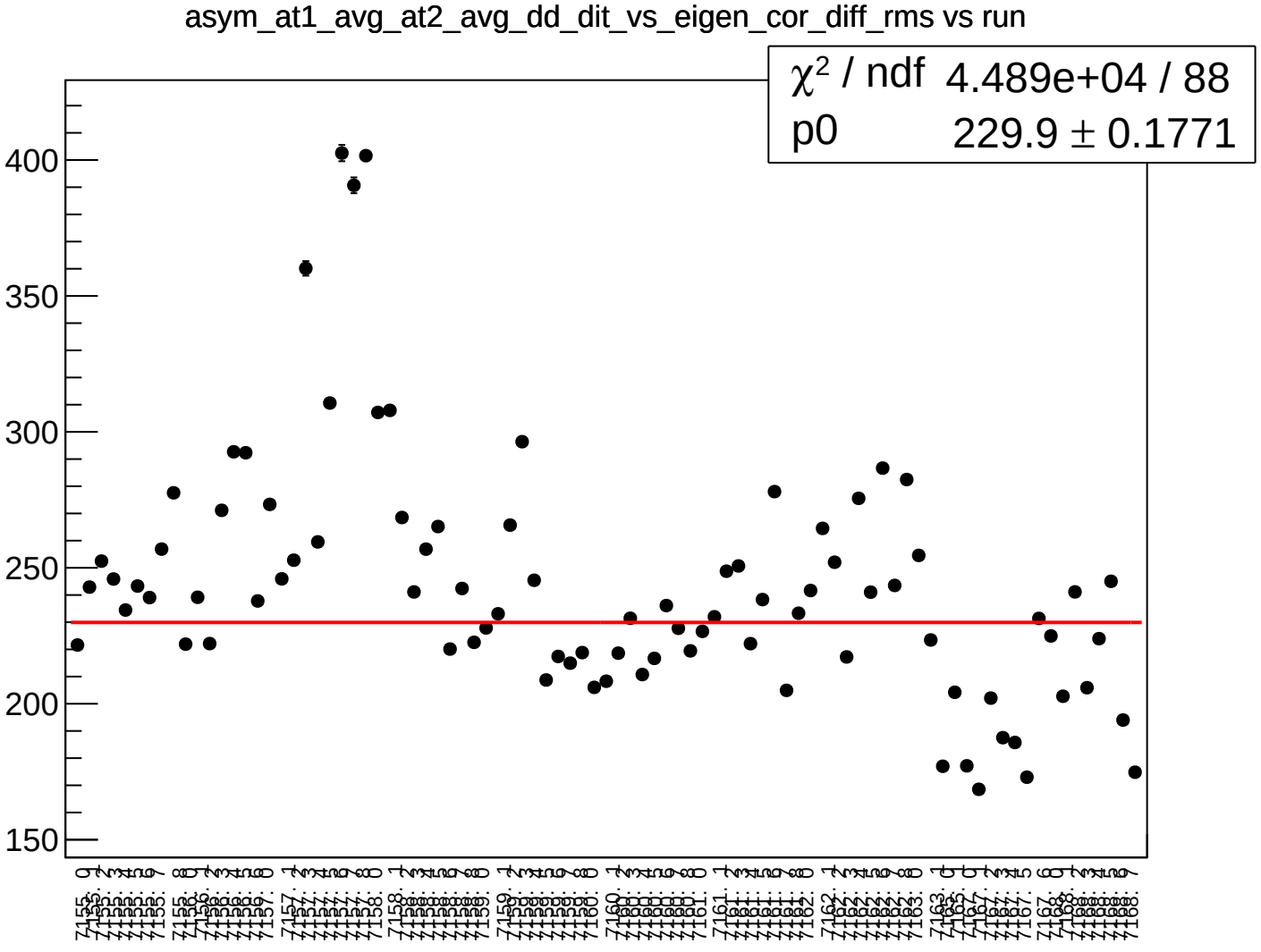

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0

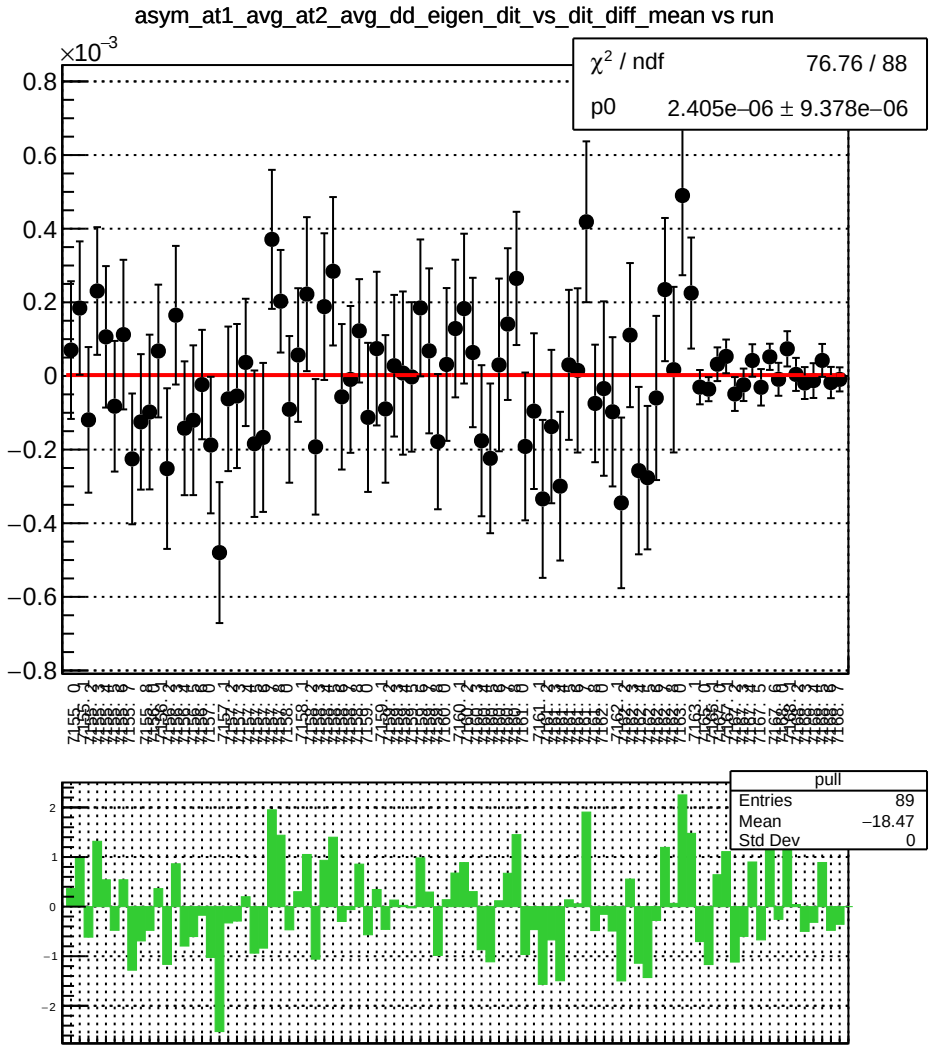

pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

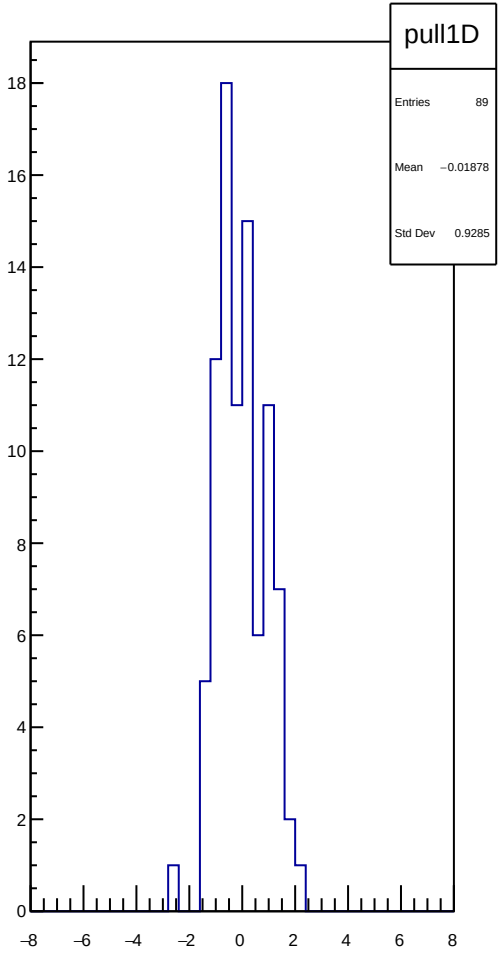

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

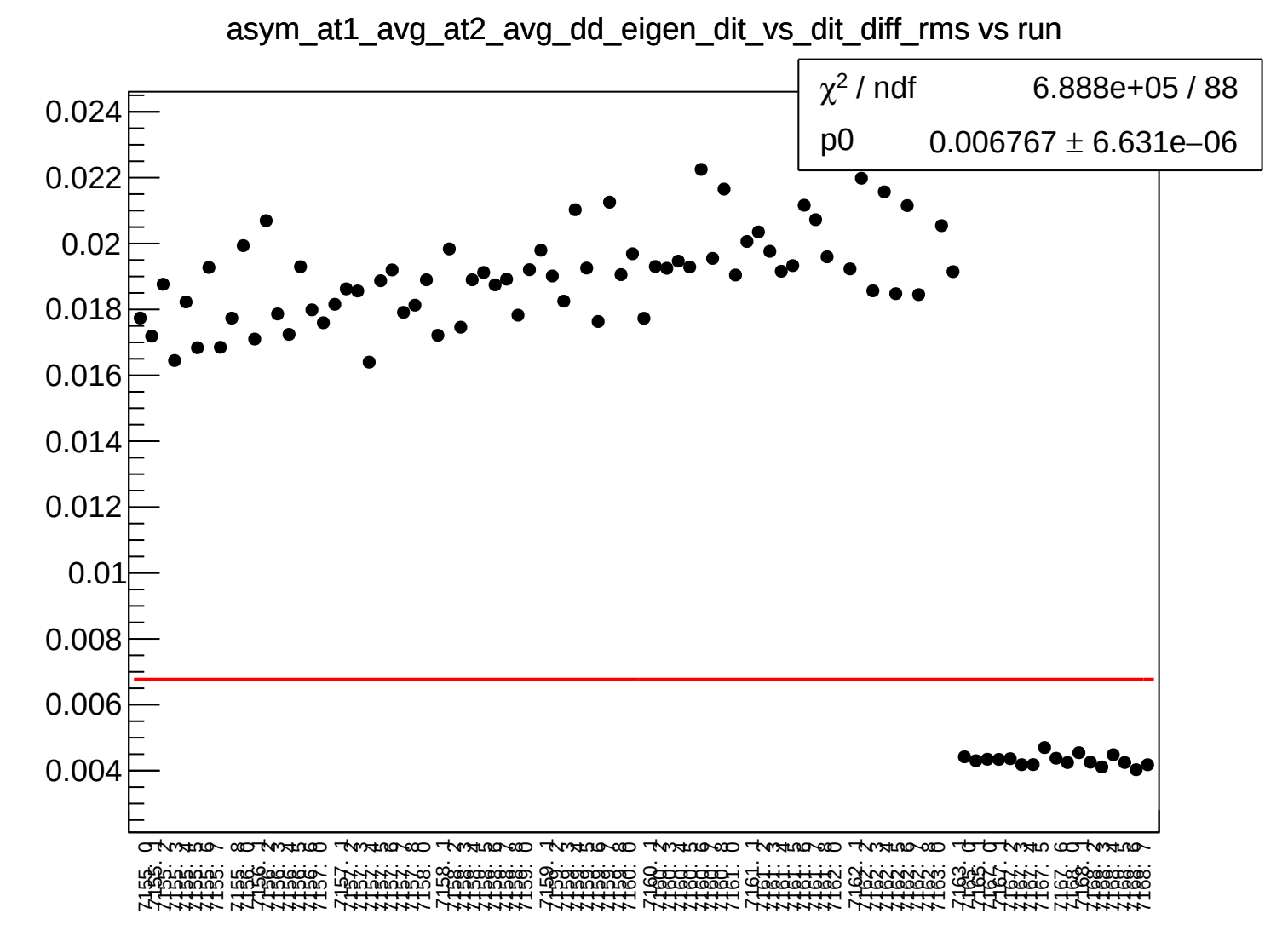

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0

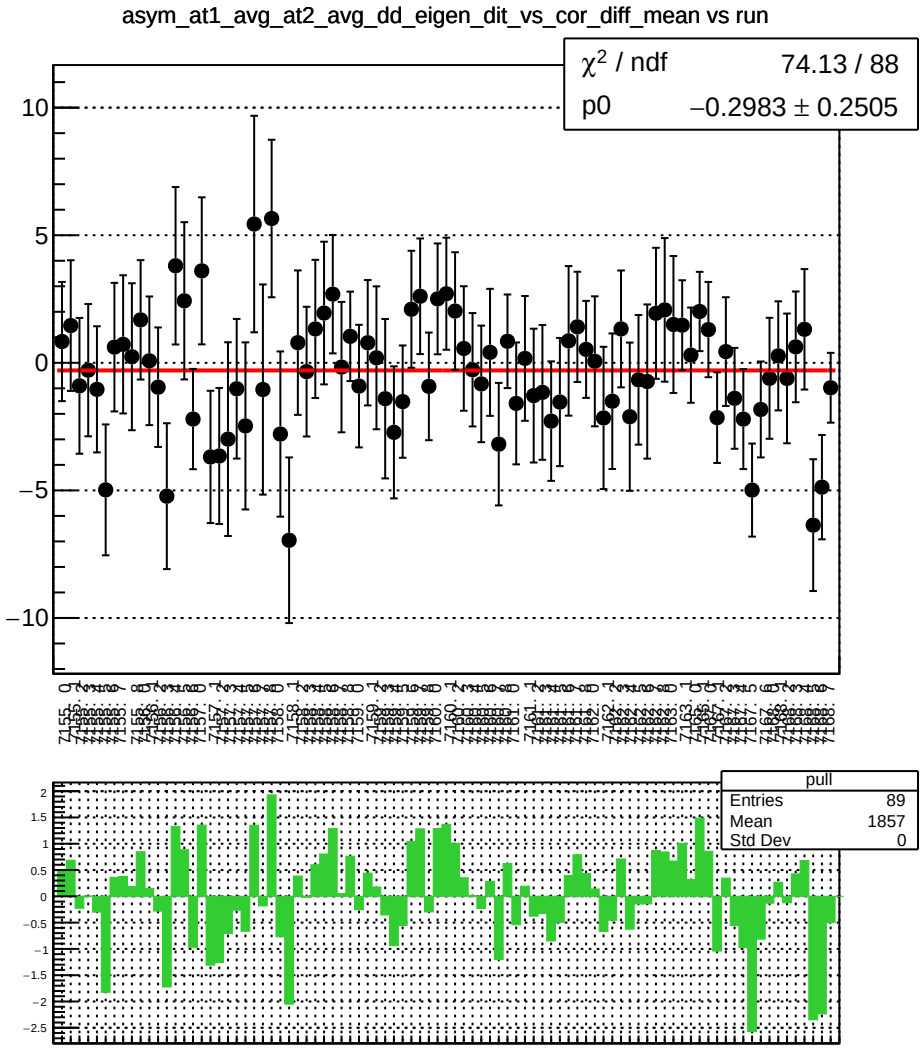

pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

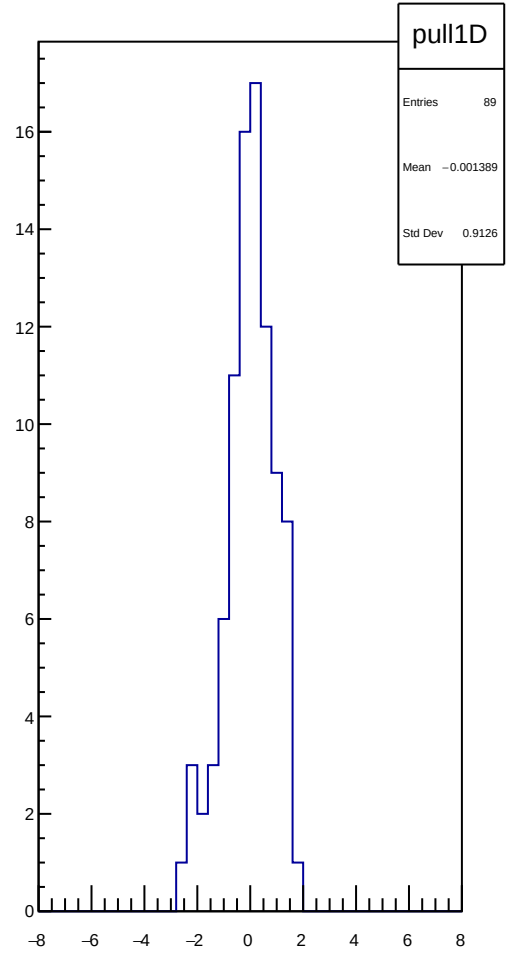

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

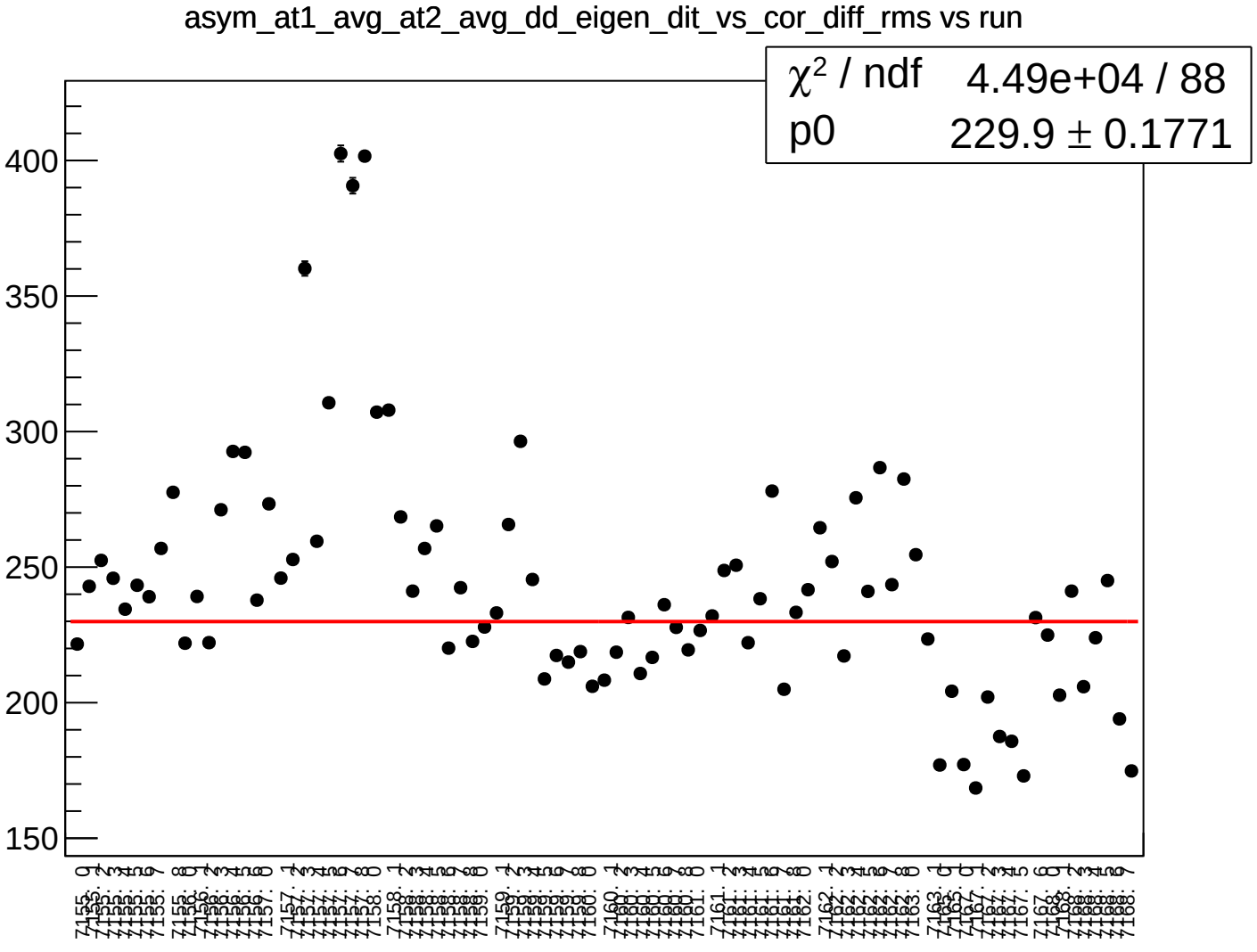

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.76 / 88
p0 2.405e−06 ± 9.378e−06
pull
Entries 89
Mean −18.47
Std Dev 0

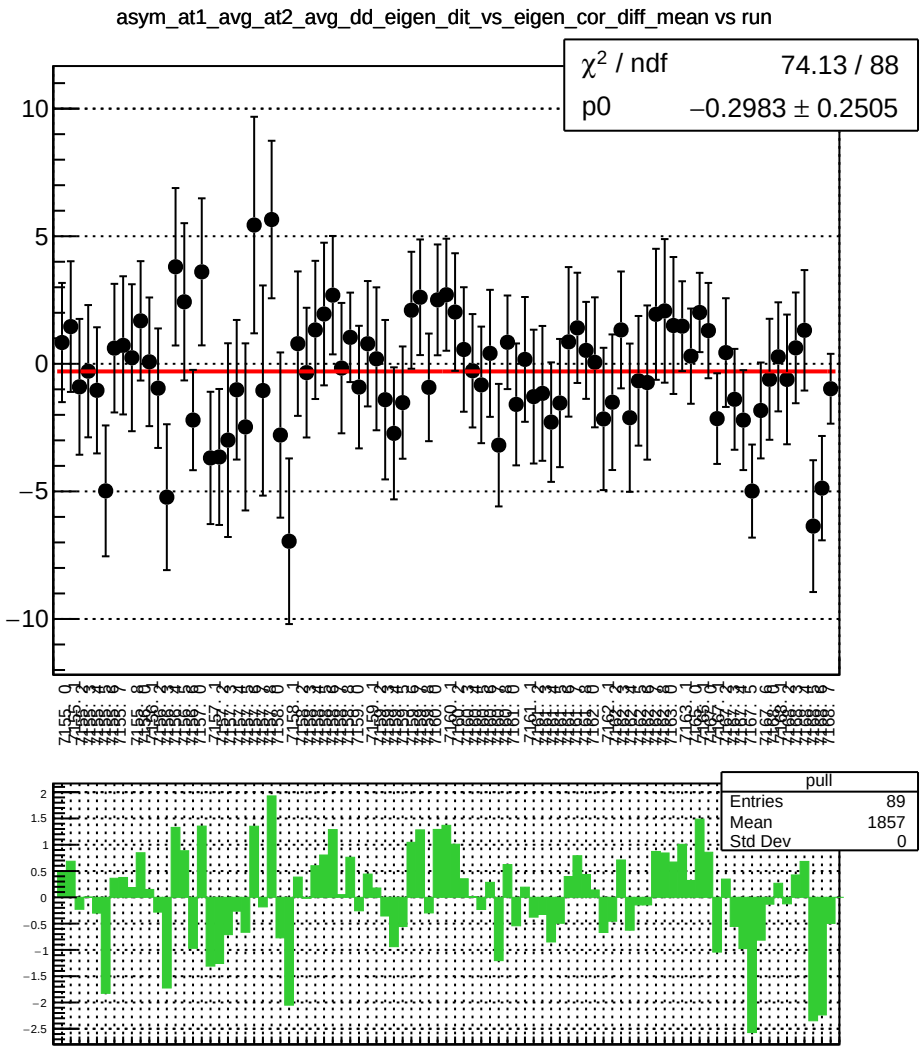

pull1D
Entries 89
Mean −0.01878
Std Dev 0.9285

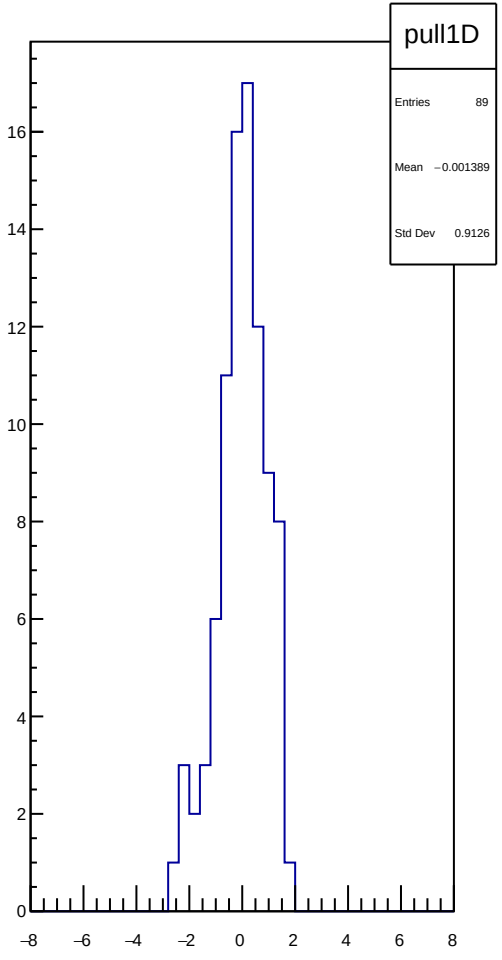

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.888e+05 / 88
p0 0.006767 ± 6.631e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

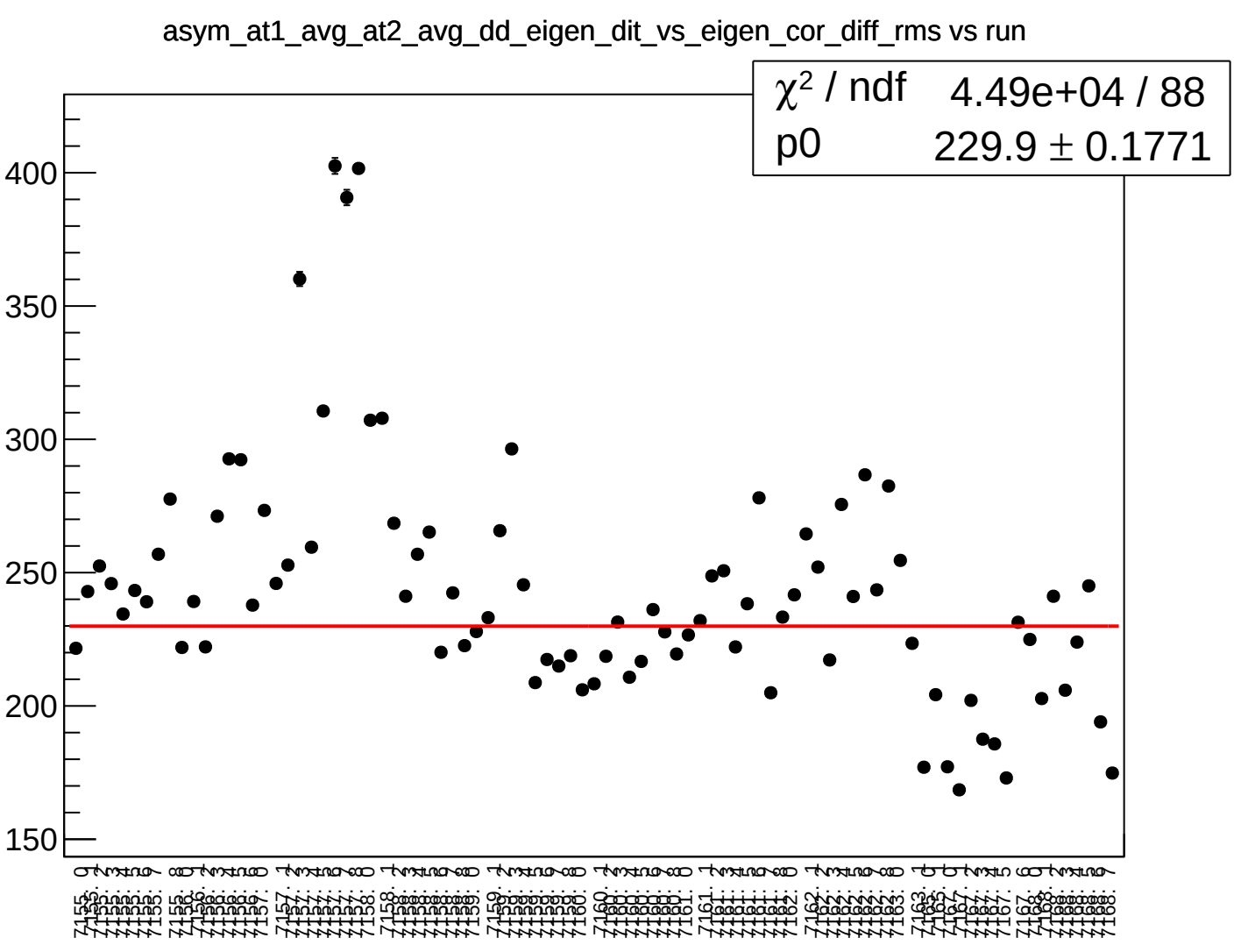

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0

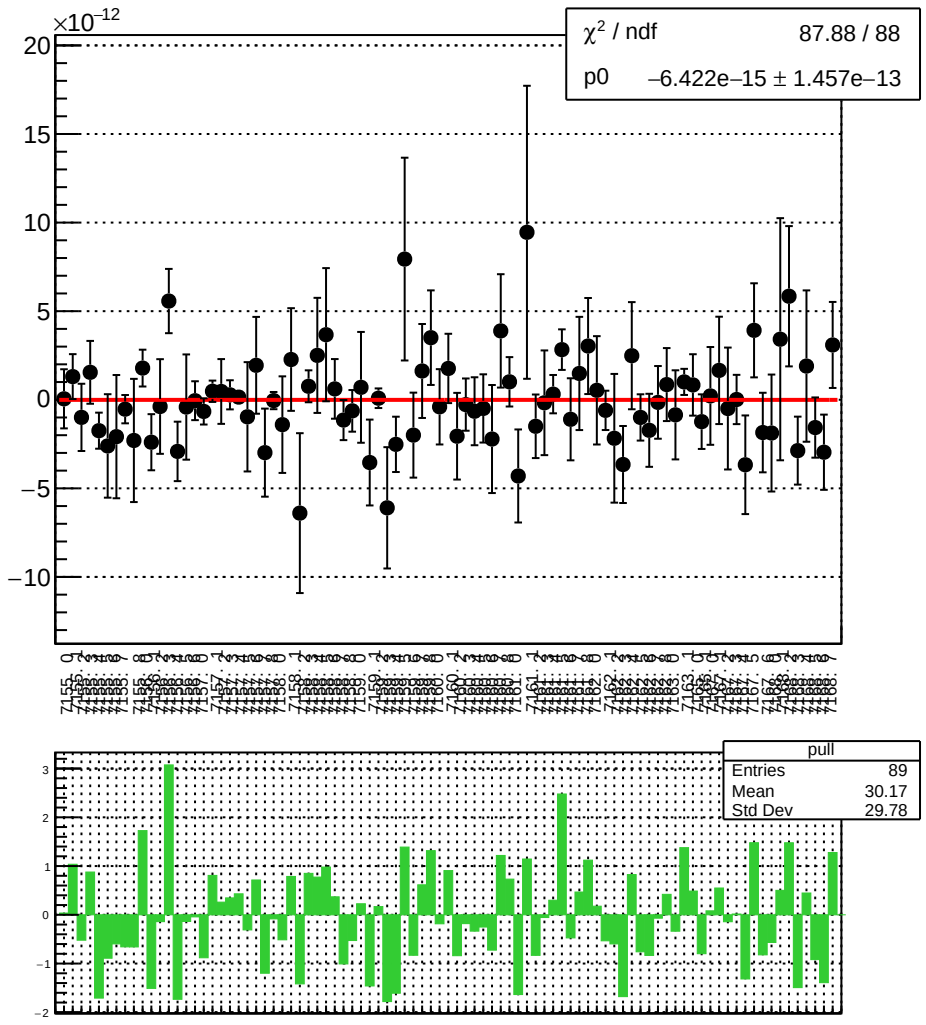

pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

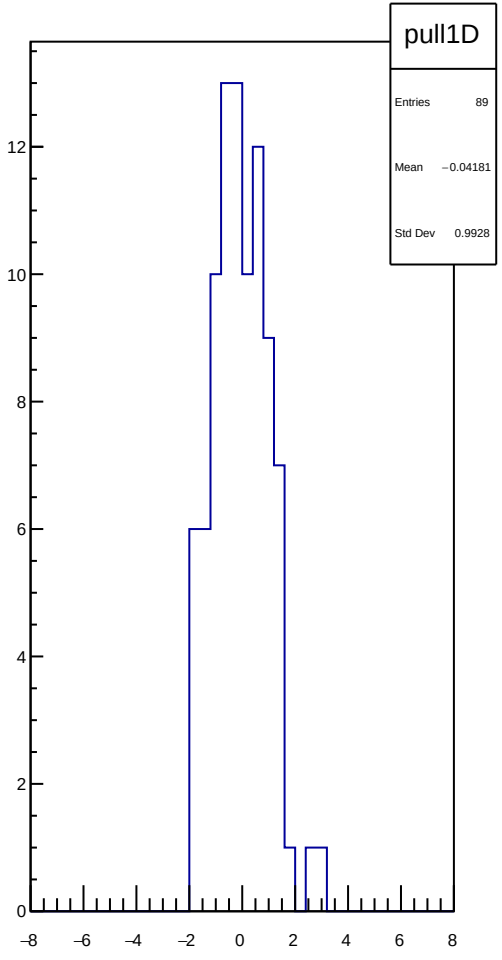

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

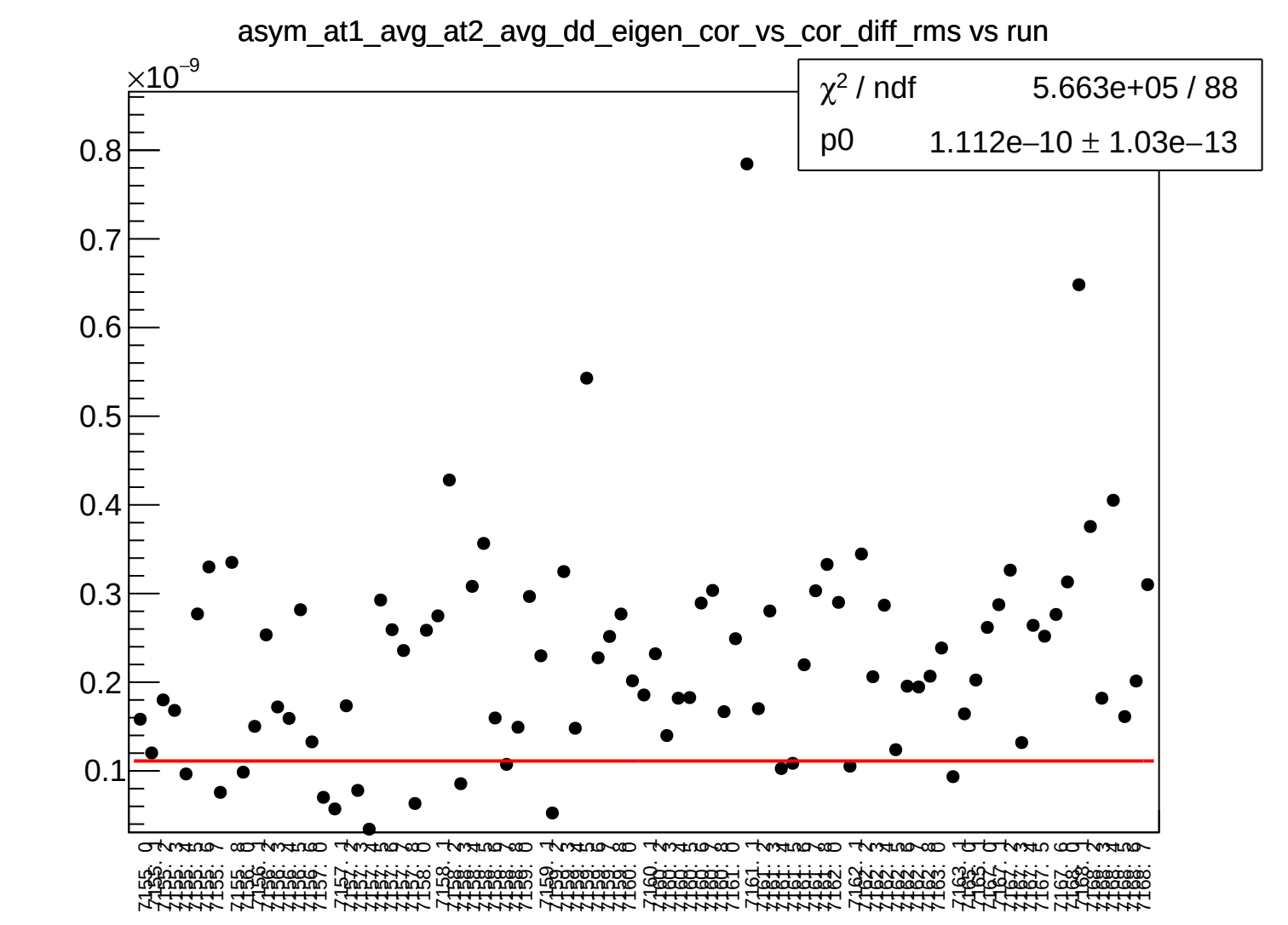

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0

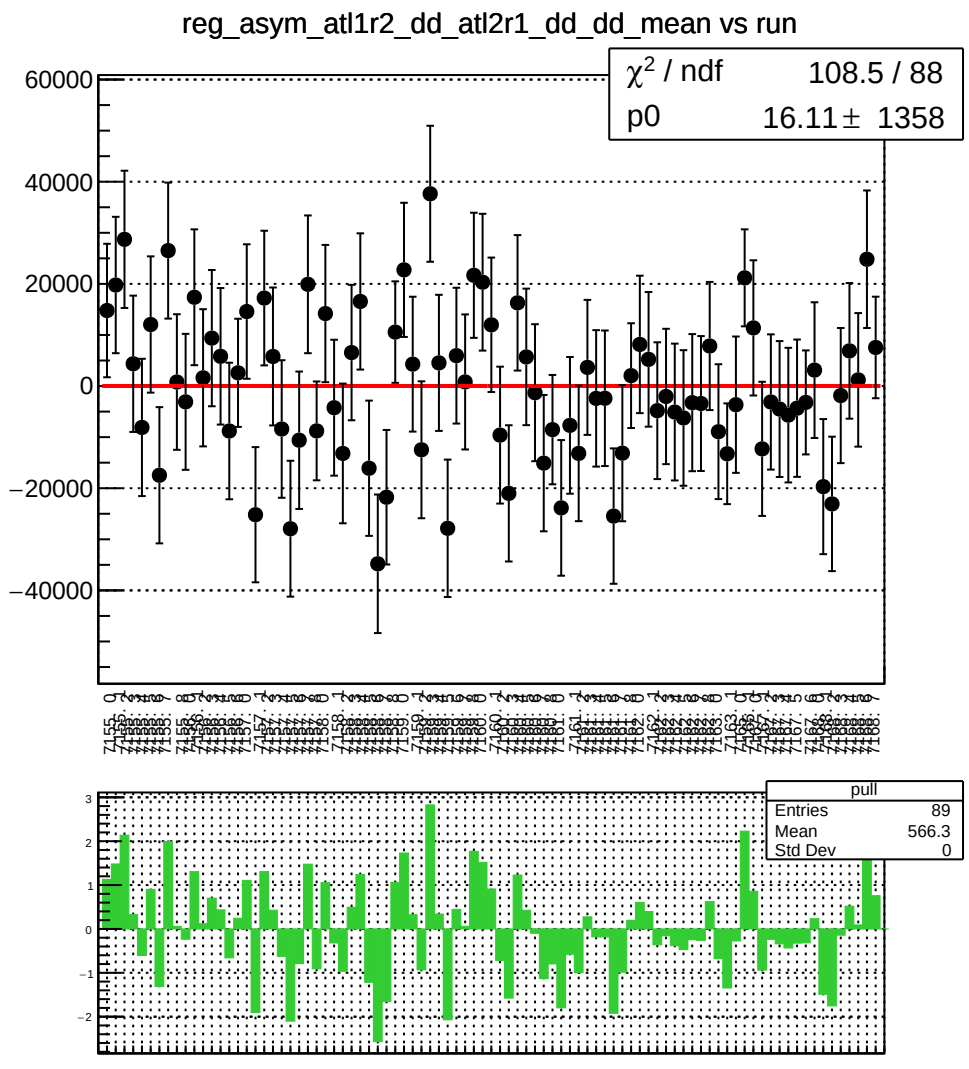

pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

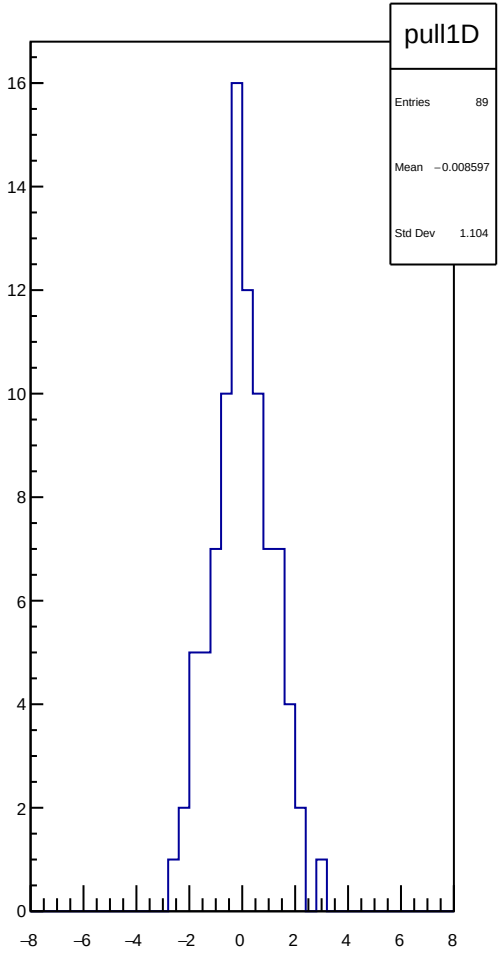

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

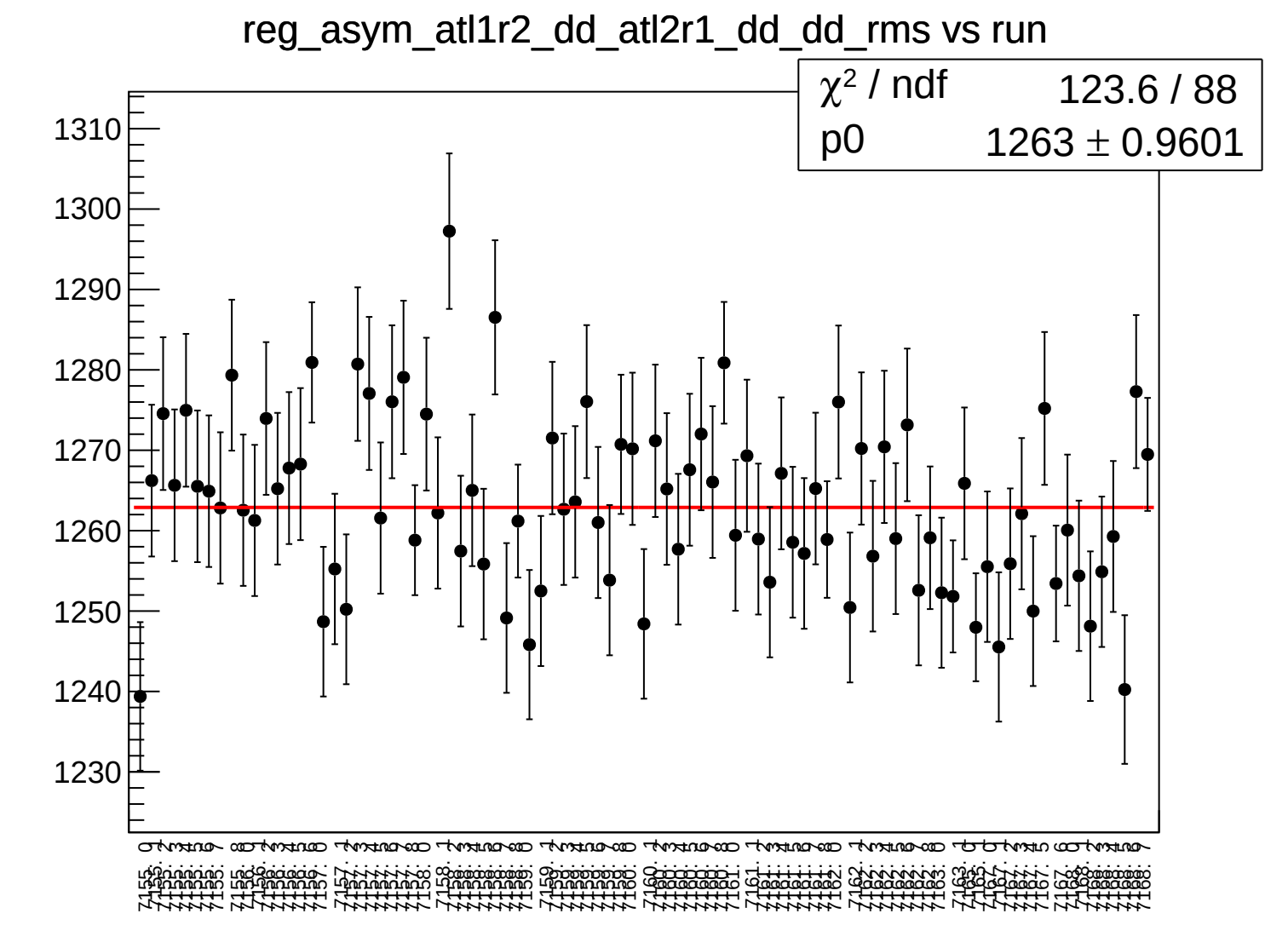

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.88 / 88
p0 −6.422e−15 ± 1.457e−13
pull
Entries 89
Mean 30.17
Std Dev 29.78

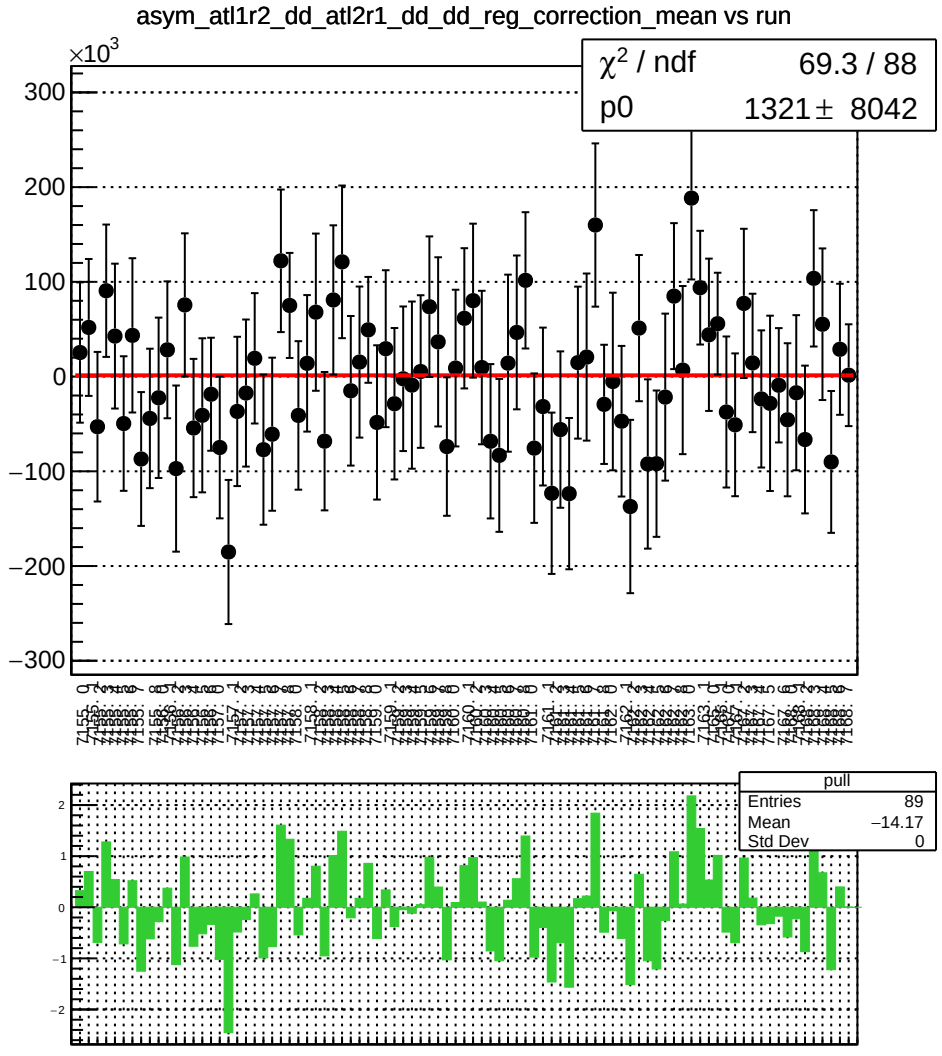

pull1D
Entries 89
Mean −0.04181
Std Dev 0.9928

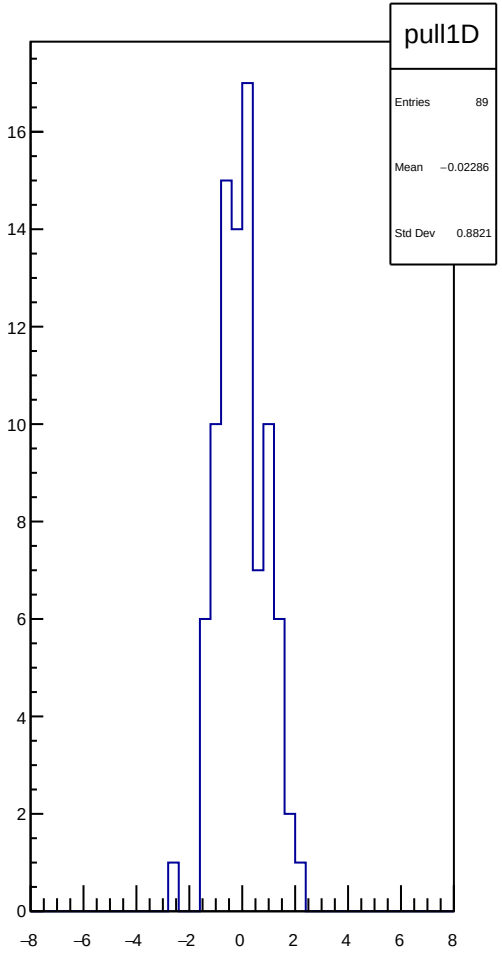

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.663e+05 / 88
p0 1.112e−10 ± 1.03e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

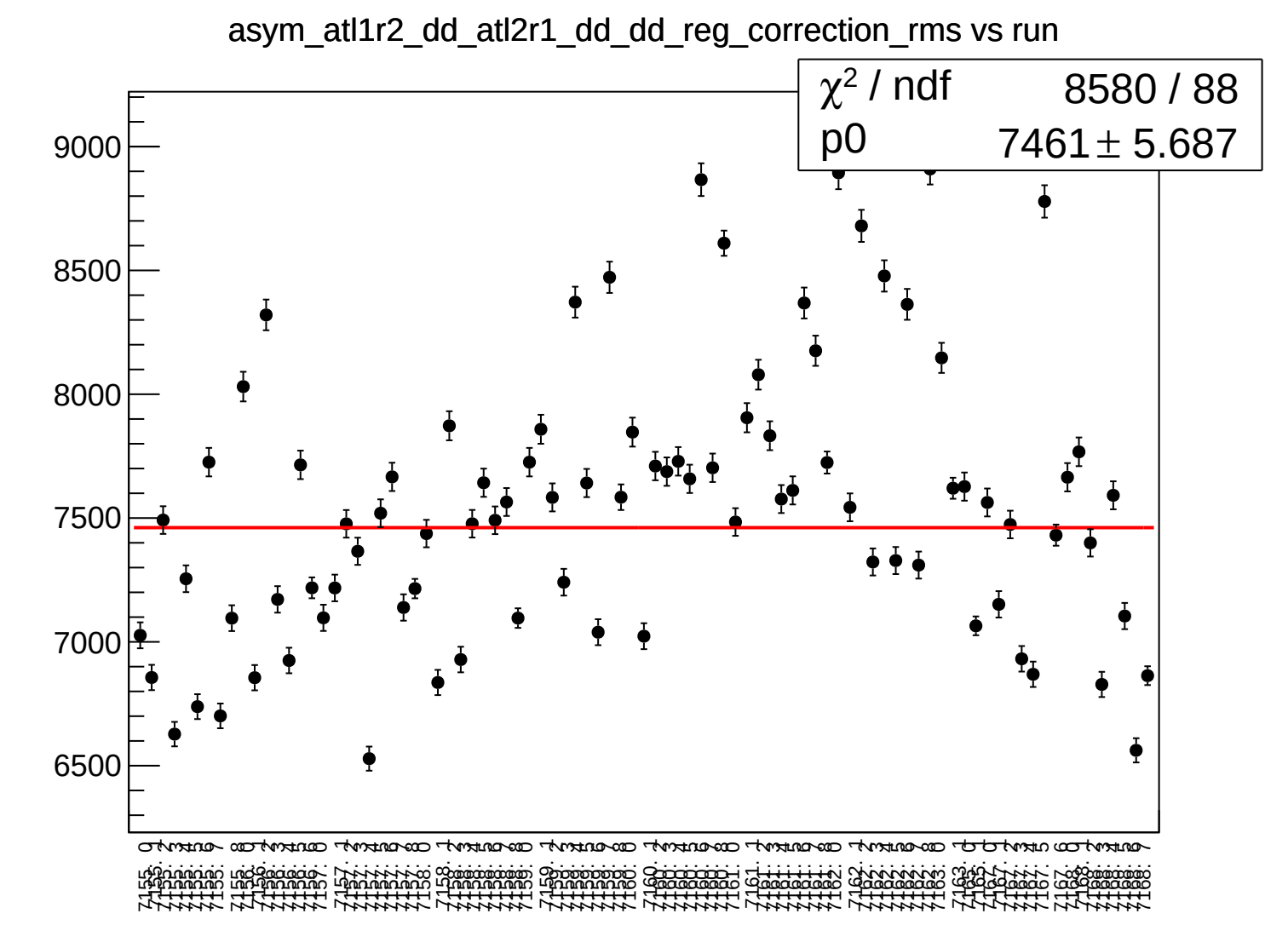

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 108.5 / 88
p0 16.11 ± 1358
pull
Entries 89
Mean 566.3
Std Dev 0

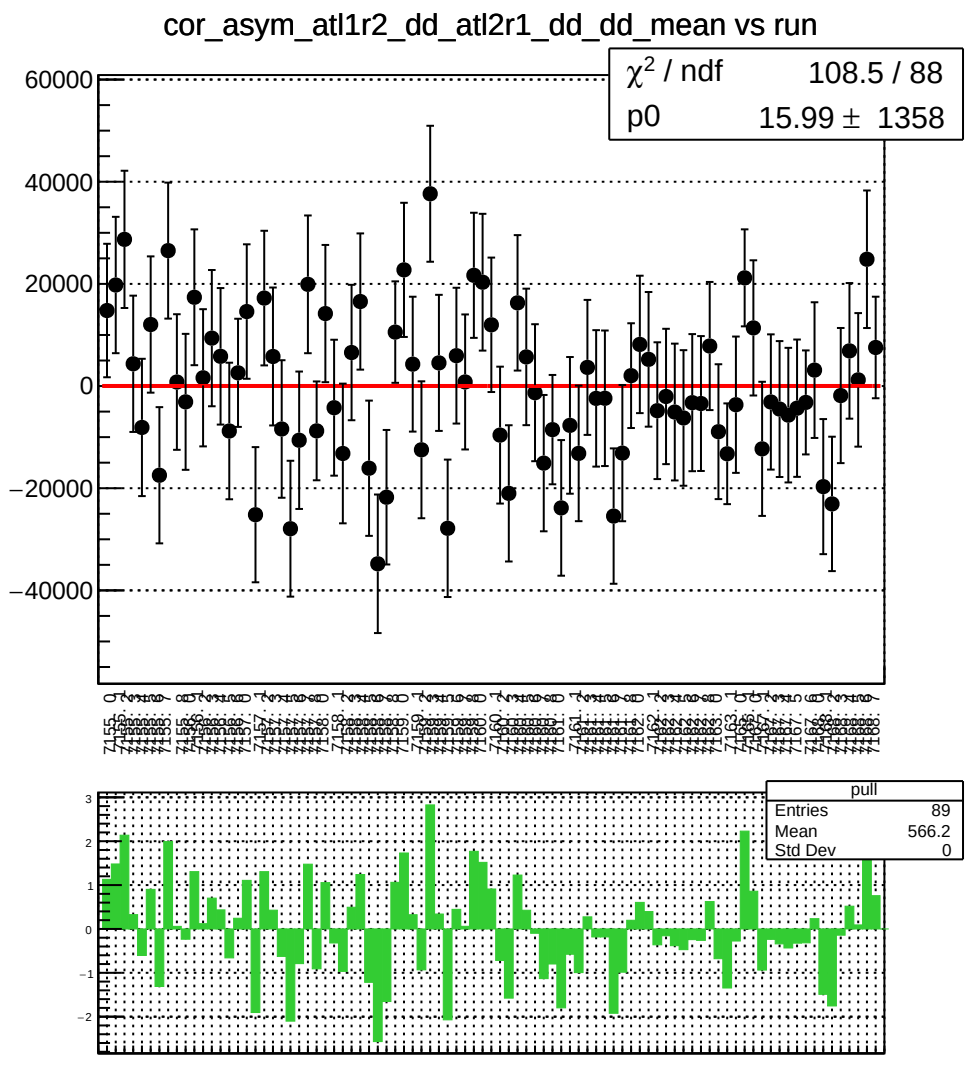

pull1D
Entries 89
Mean −0.008597
Std Dev 1.104

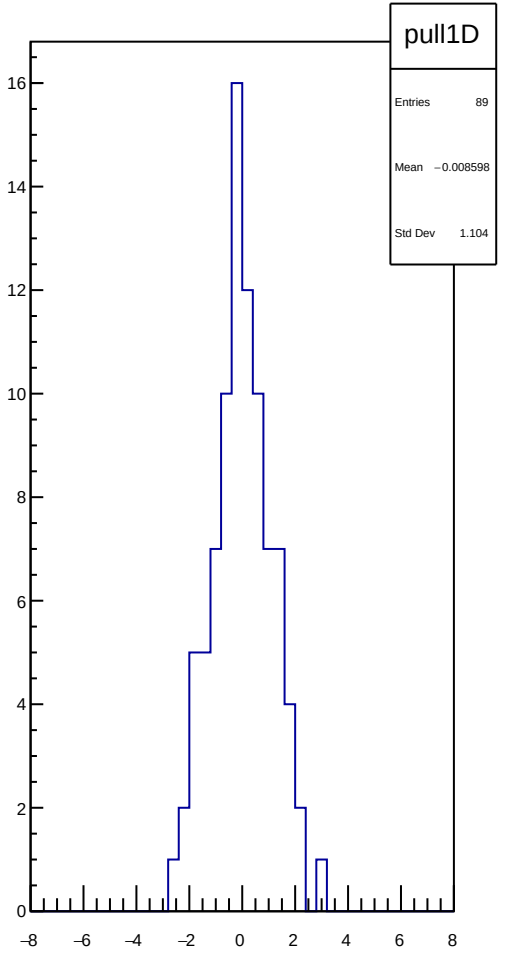

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

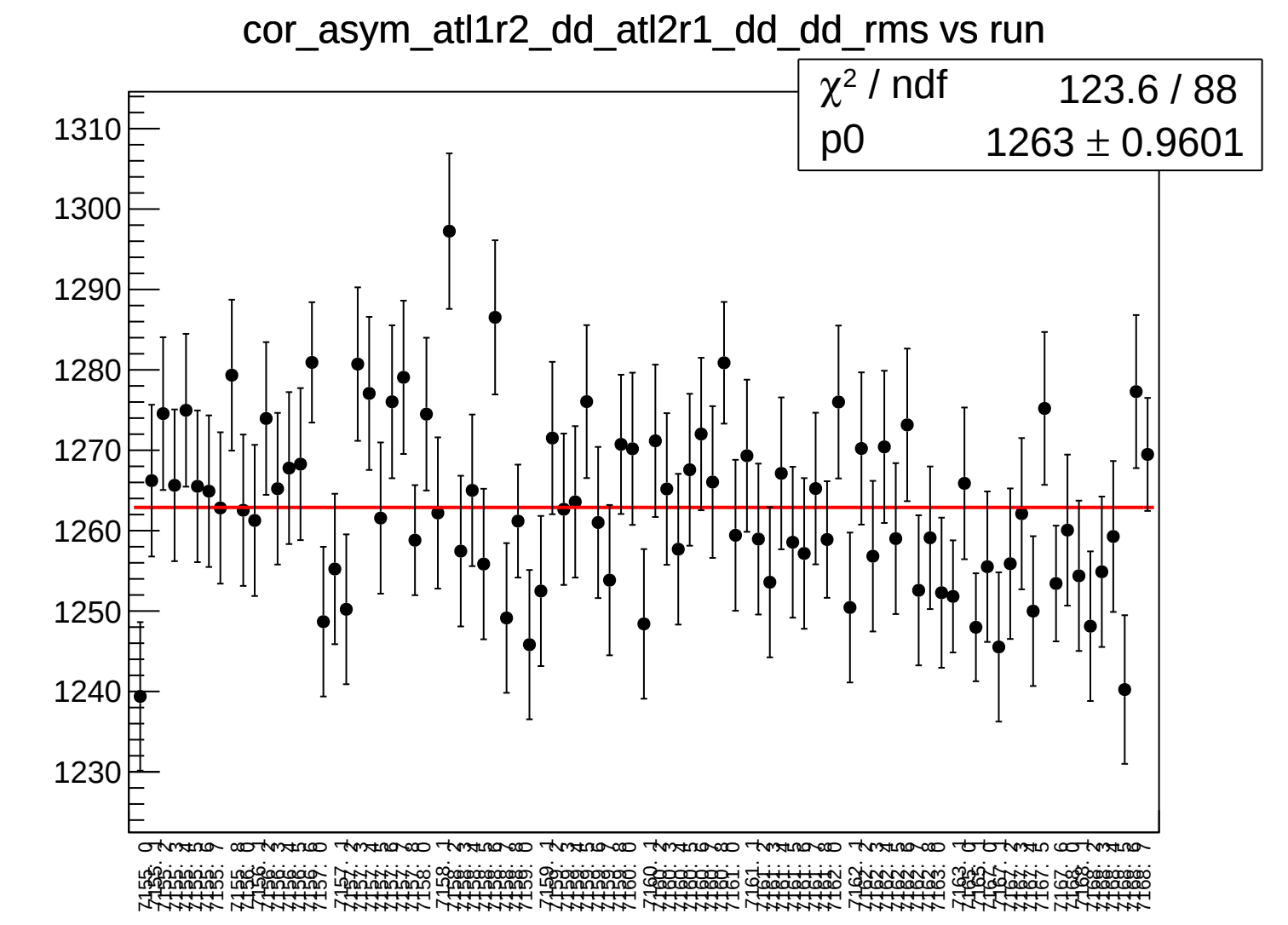

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.17
Std Dev 0
2
1
0
−1
−2

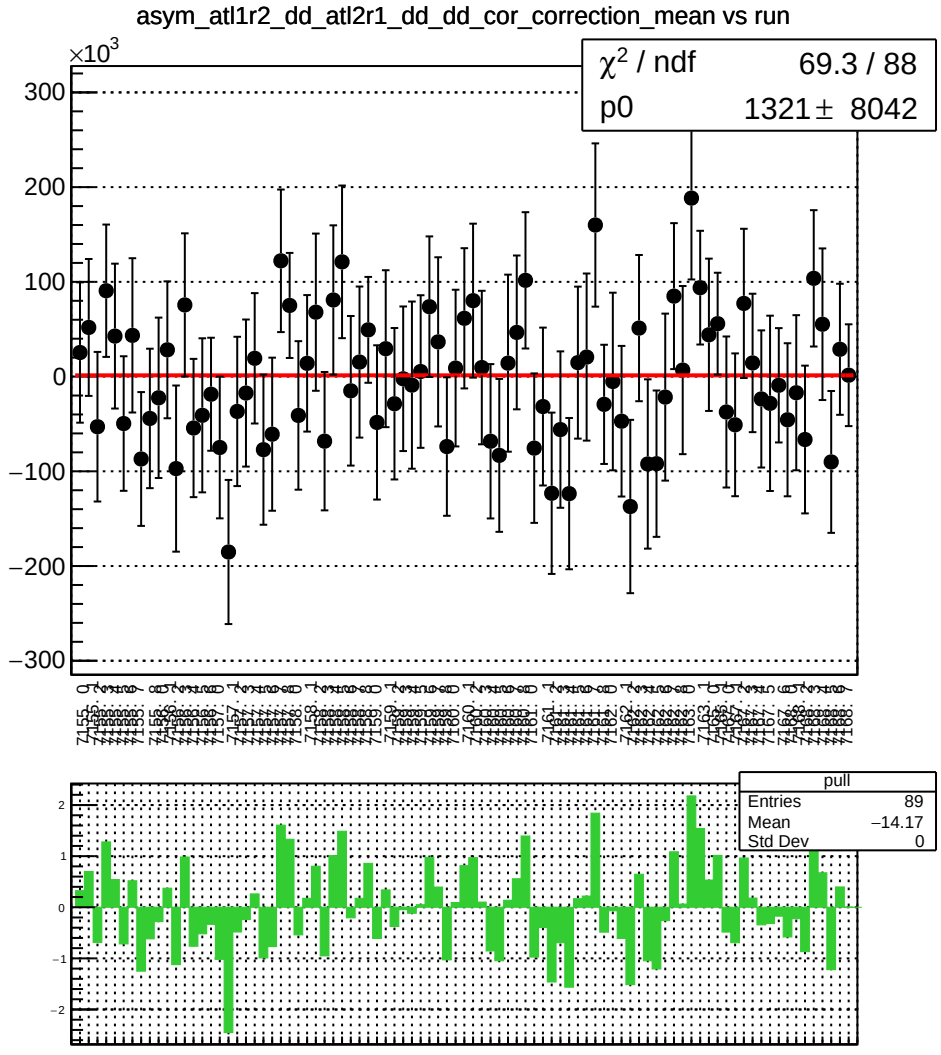

pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

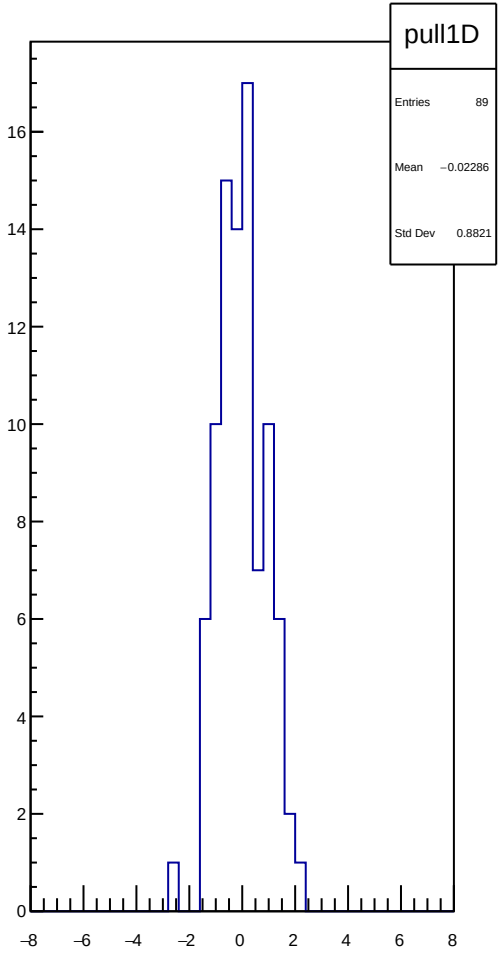

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

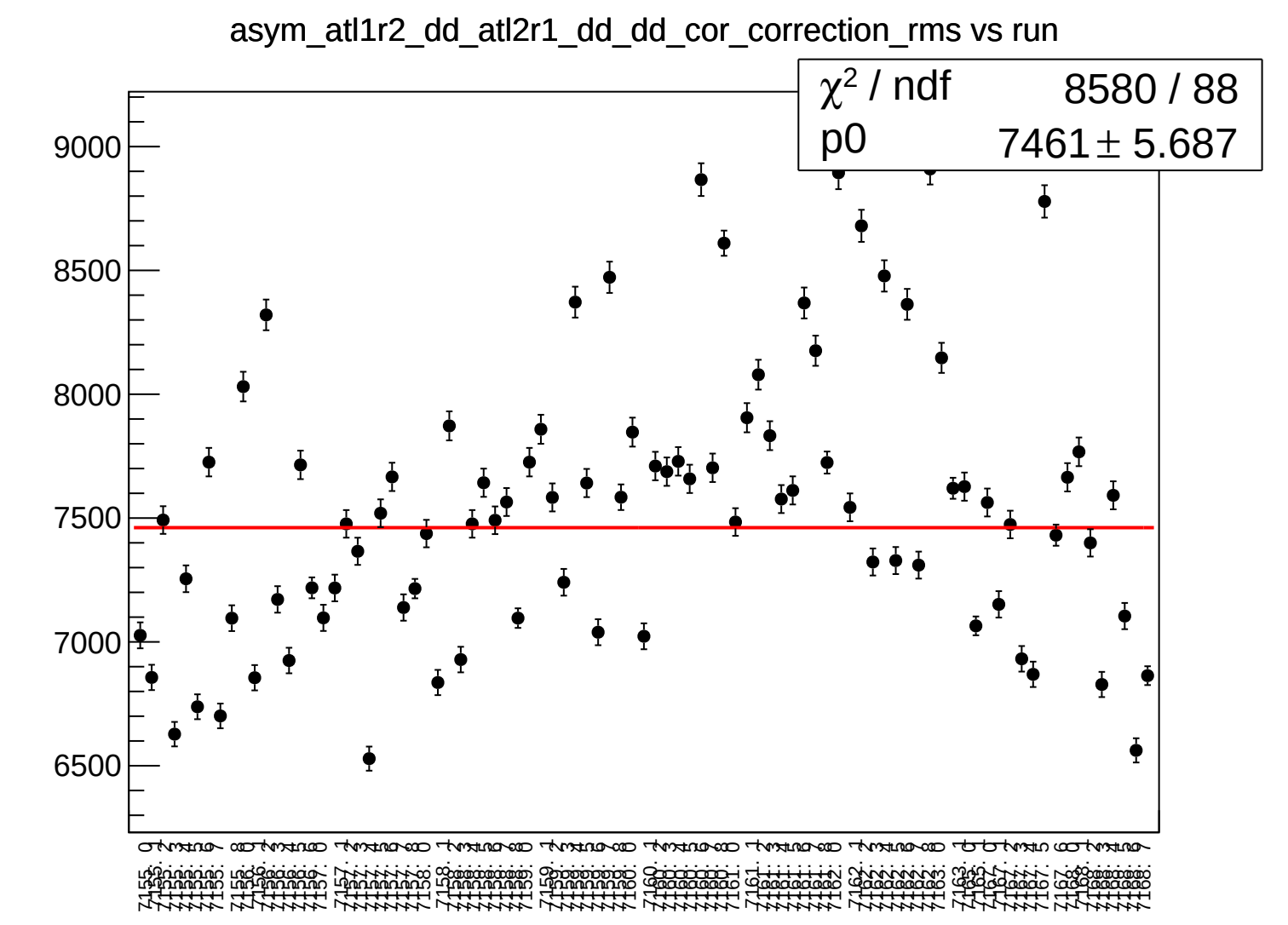

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.2
Std Dev 0
3
2
1
0
−1
−2

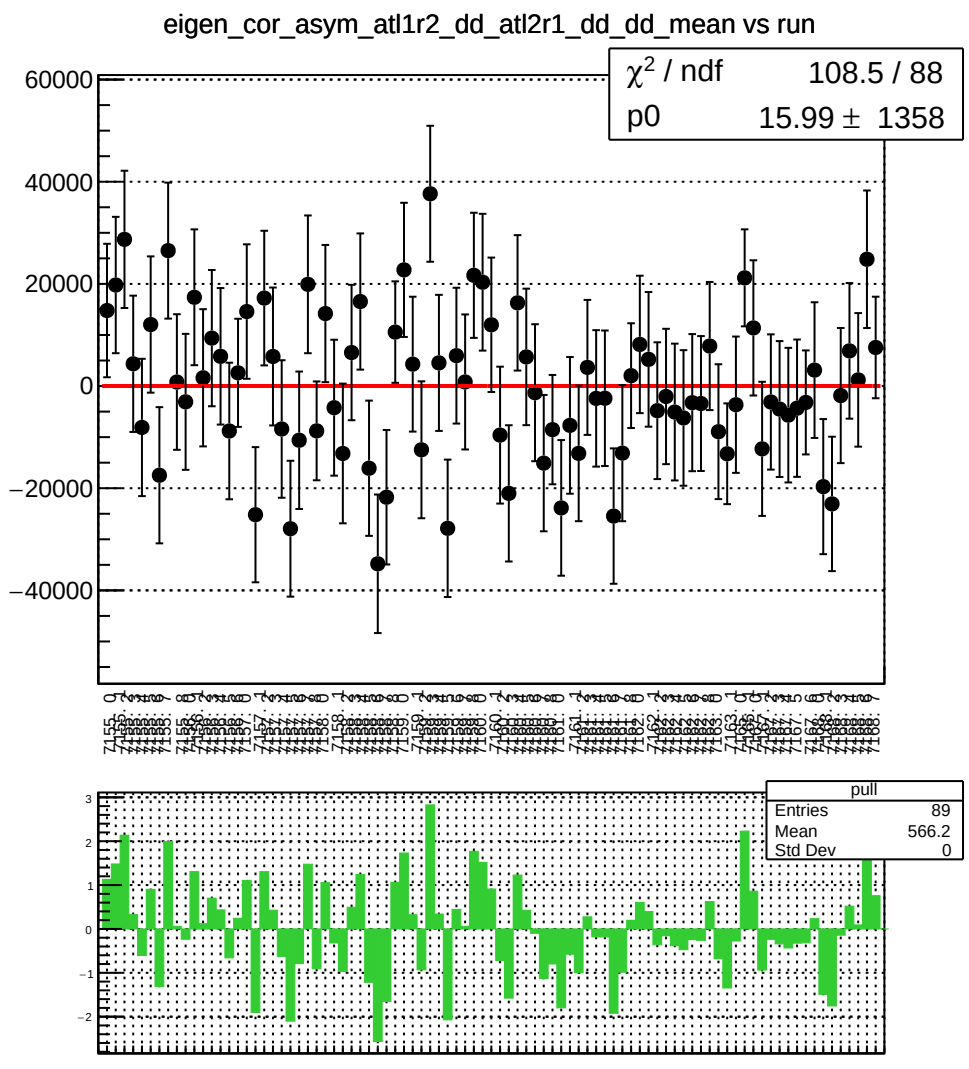

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

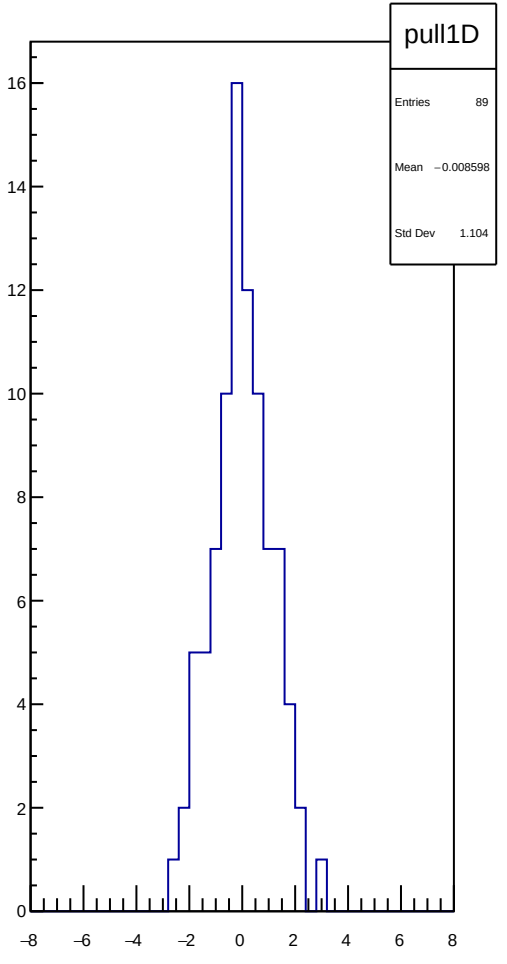

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

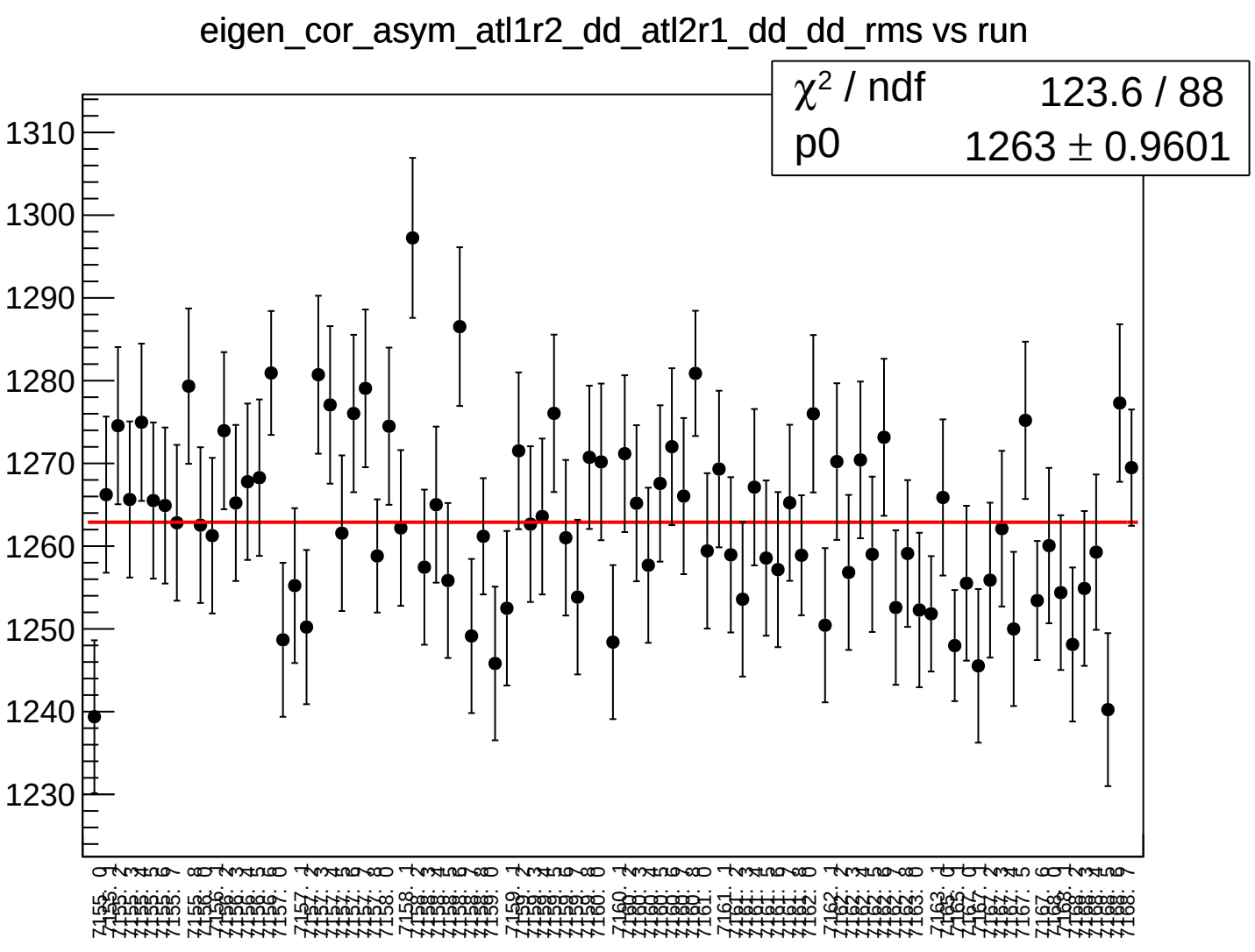

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
pull
Entries 89
Mean −14.17
Std Dev 0

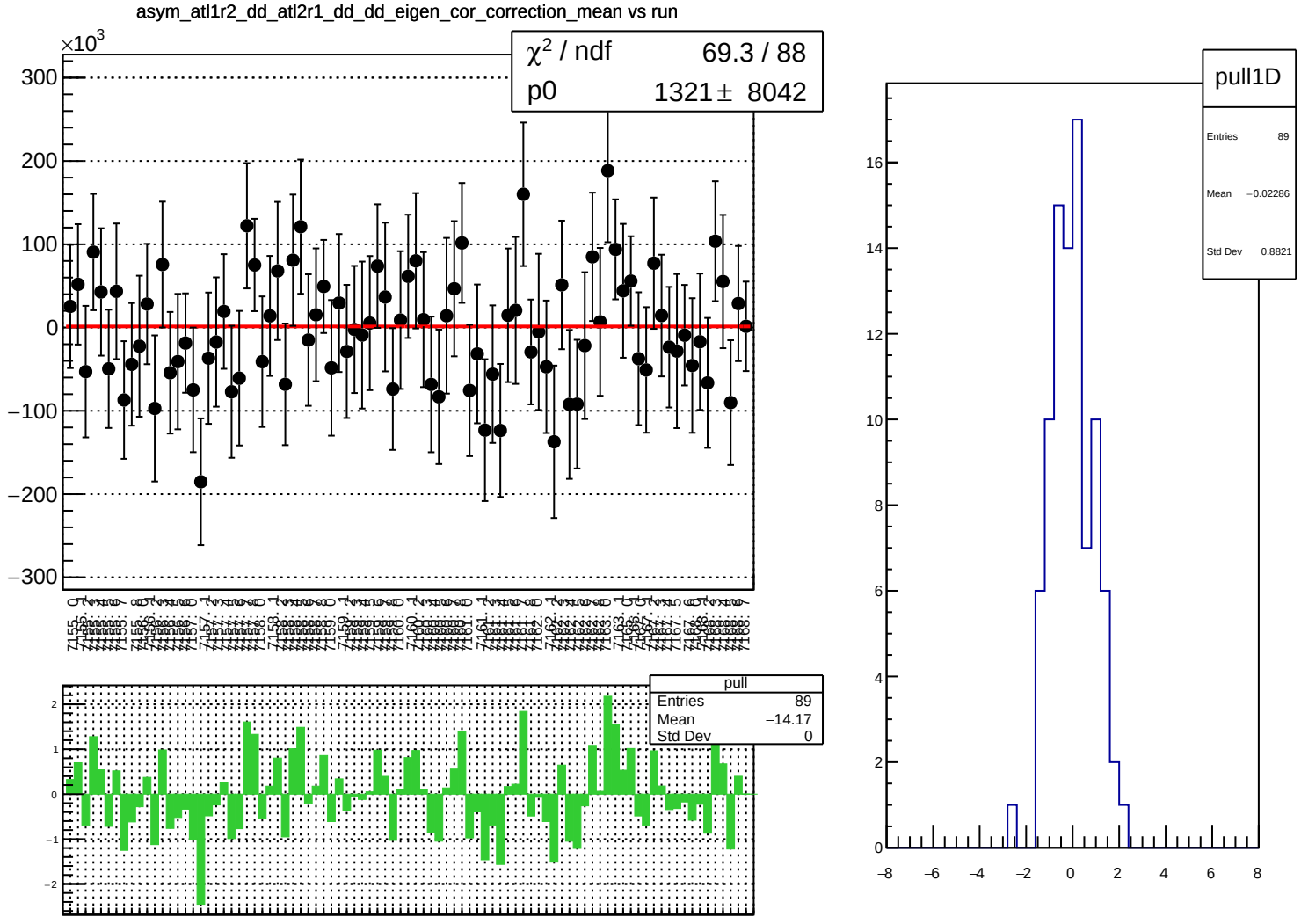

pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821

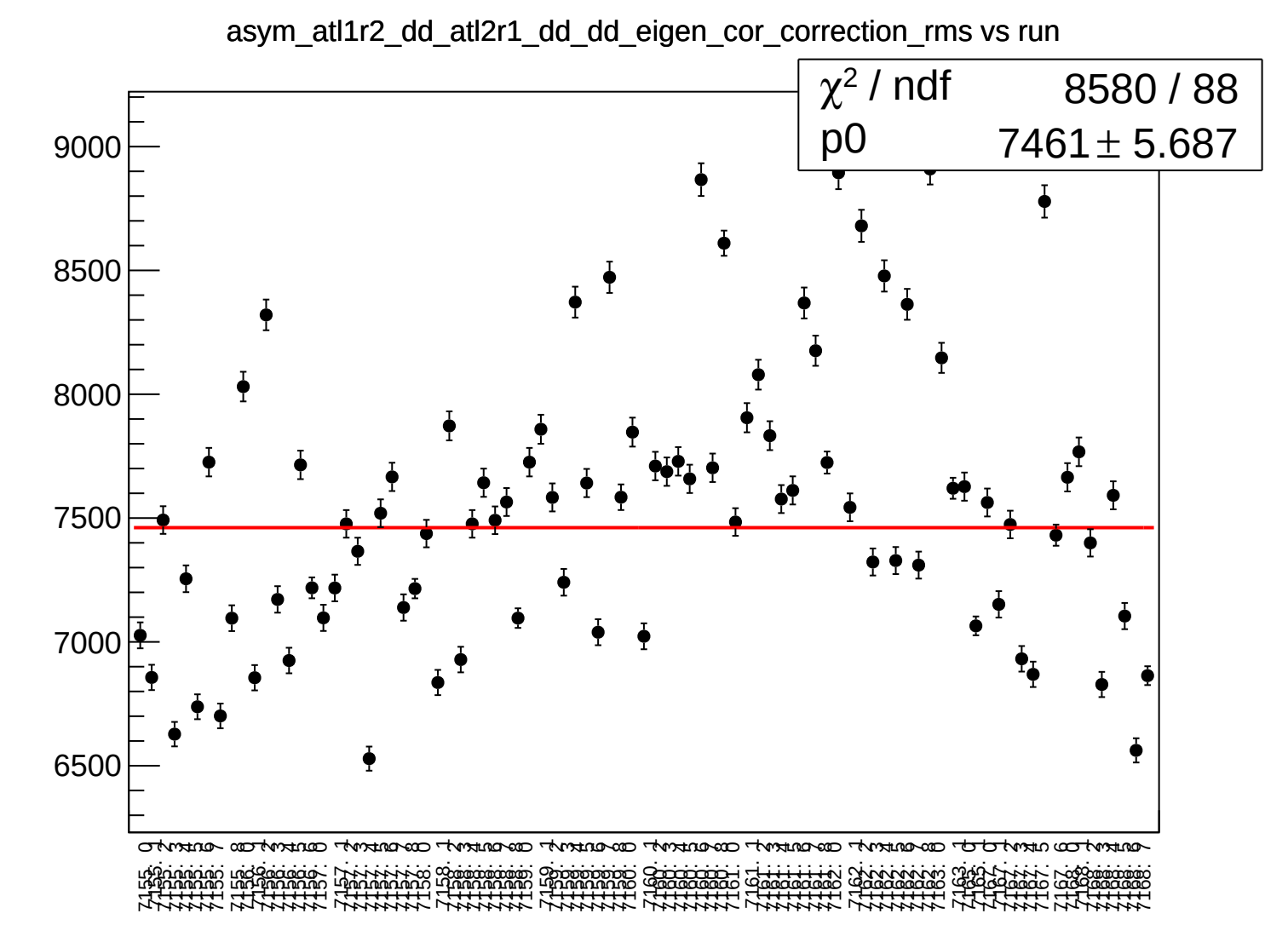

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

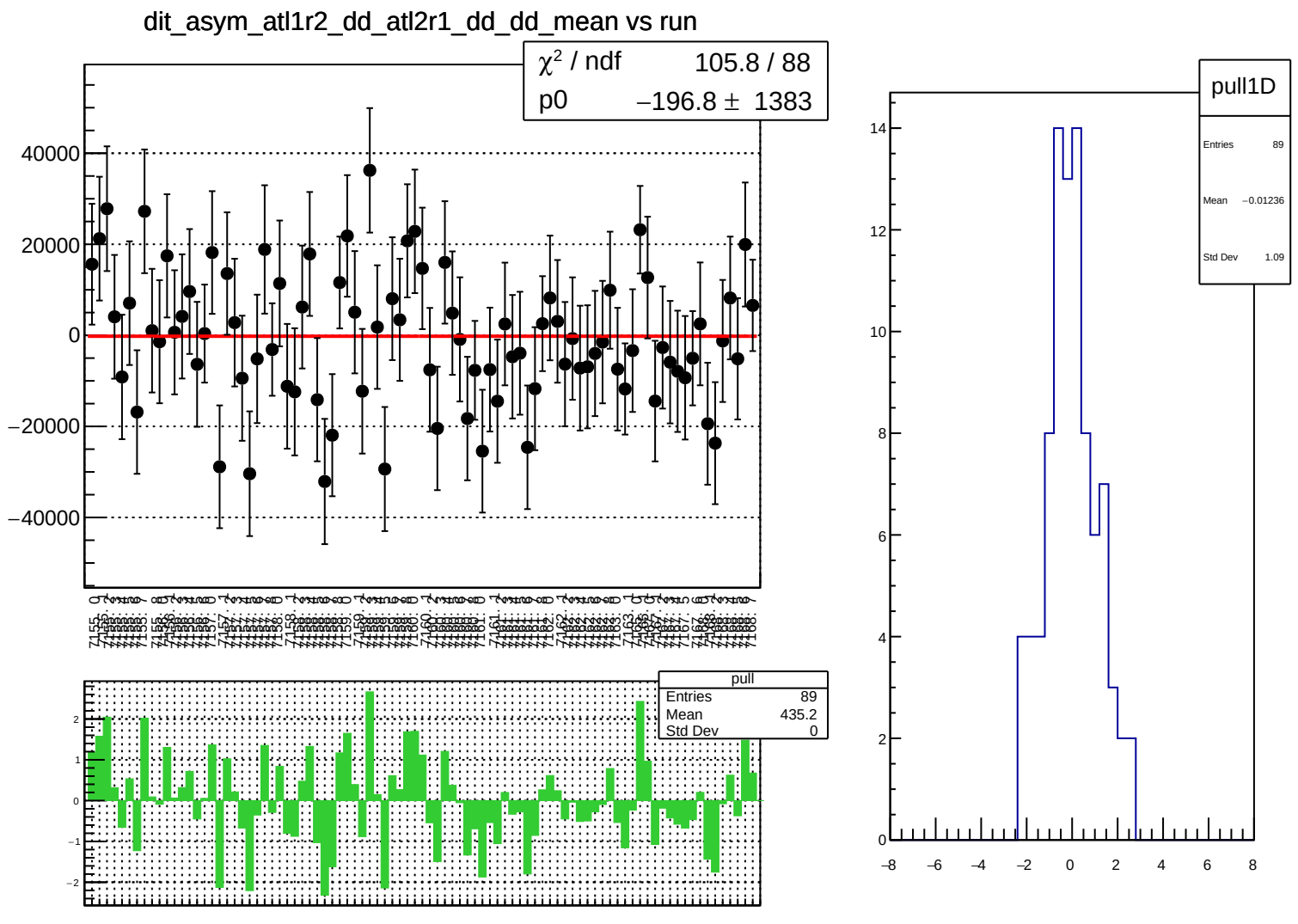

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 108.5 / 88
p0 15.99 ± 1358
60000
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 566.2
Std Dev 0
3
2
1
0
−1
−2

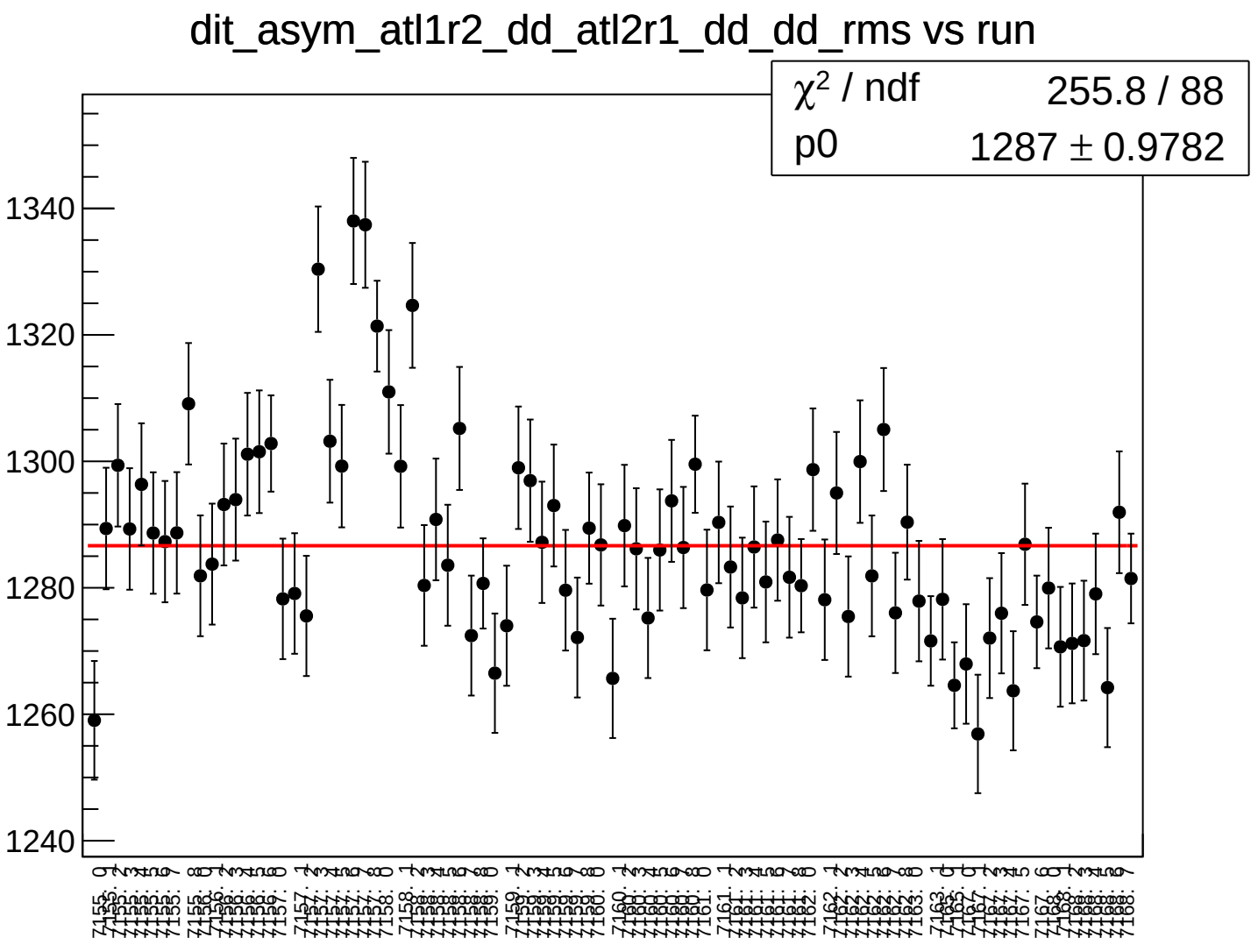

pull1D
Entries 89
Mean −0.008598
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

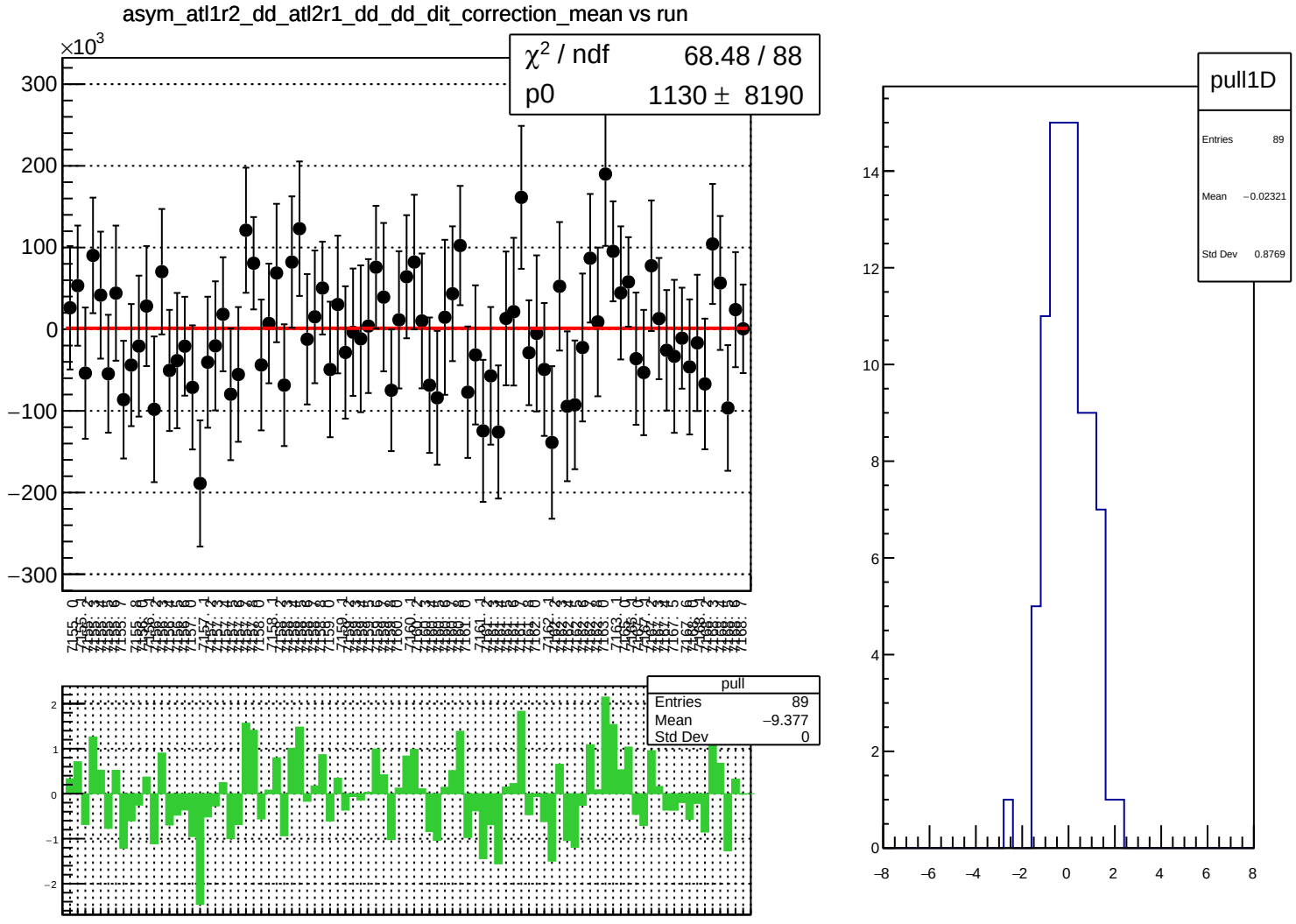

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 123.6 / 88
p0 1263 ± 0.9601
1310
1300
1290
1280
1270
1260
1250
1240
1230

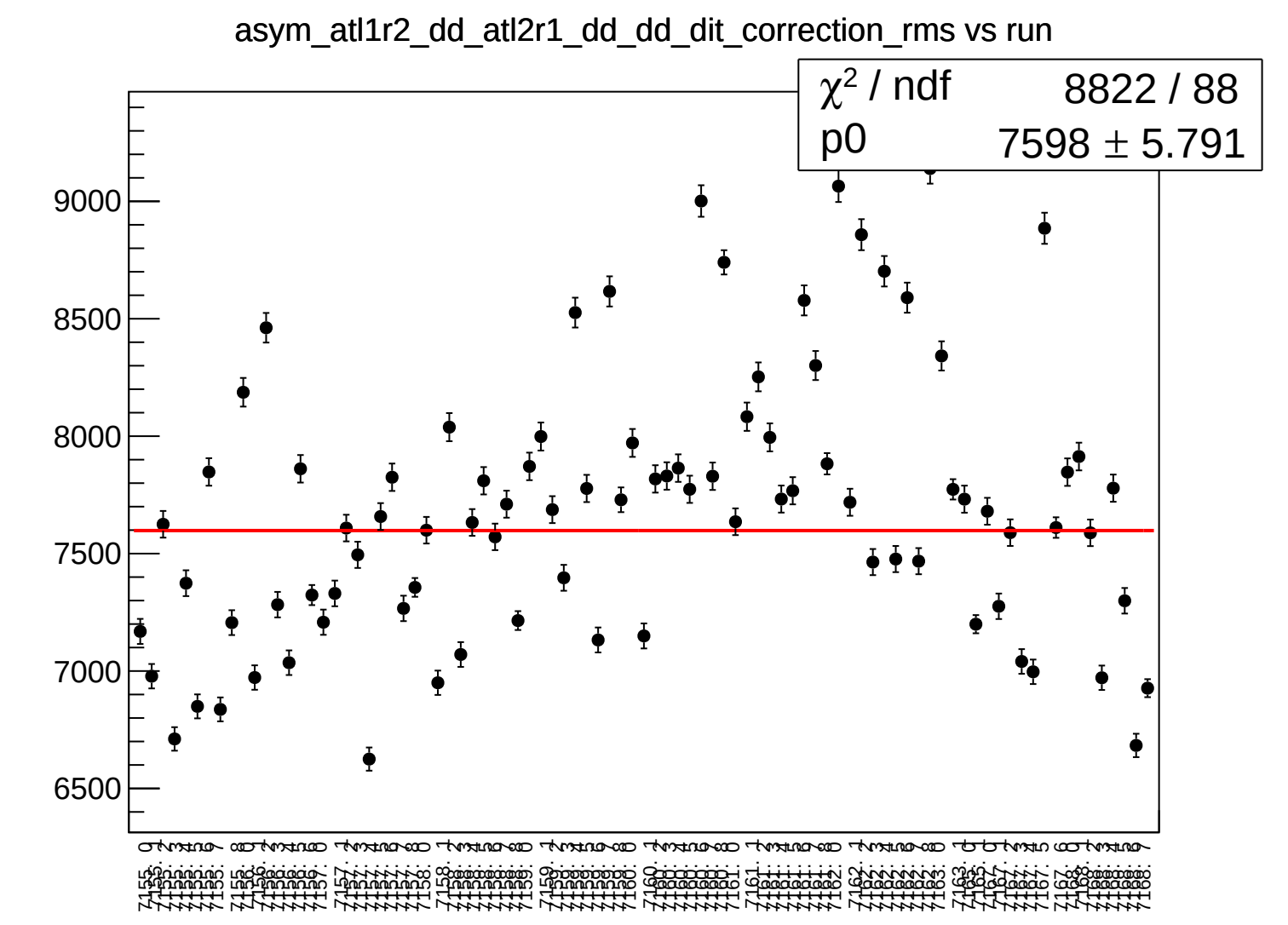

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.3 / 88
p0 1321 ± 8042
pull
Entries 89
Mean −14.17
Std Dev 0
pull1D
Entries 89
Mean −0.02286
Std Dev 0.8821

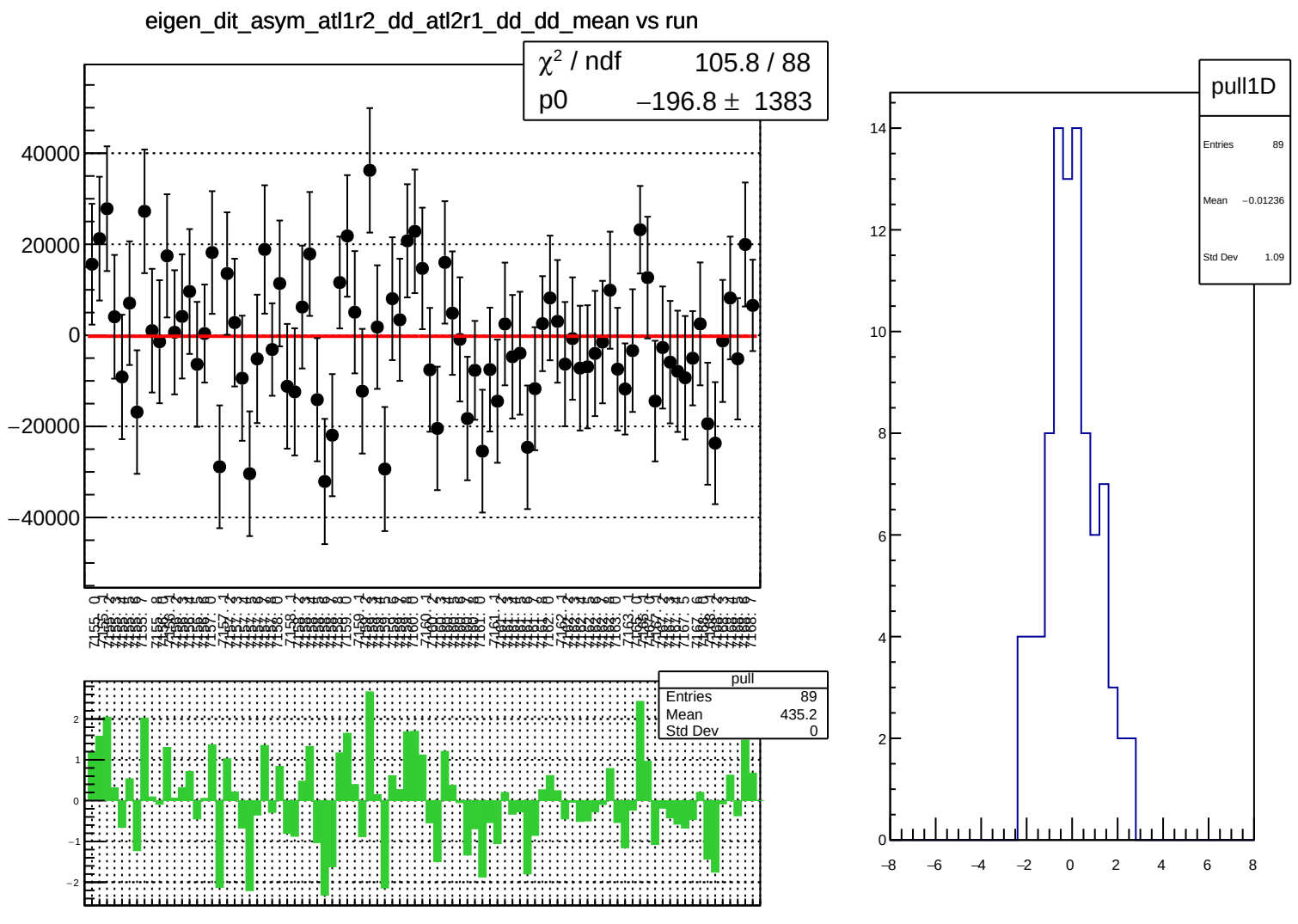

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8580 / 88
p0 7461 ± 5.687
9000
8500
8000
7500
7000
6500

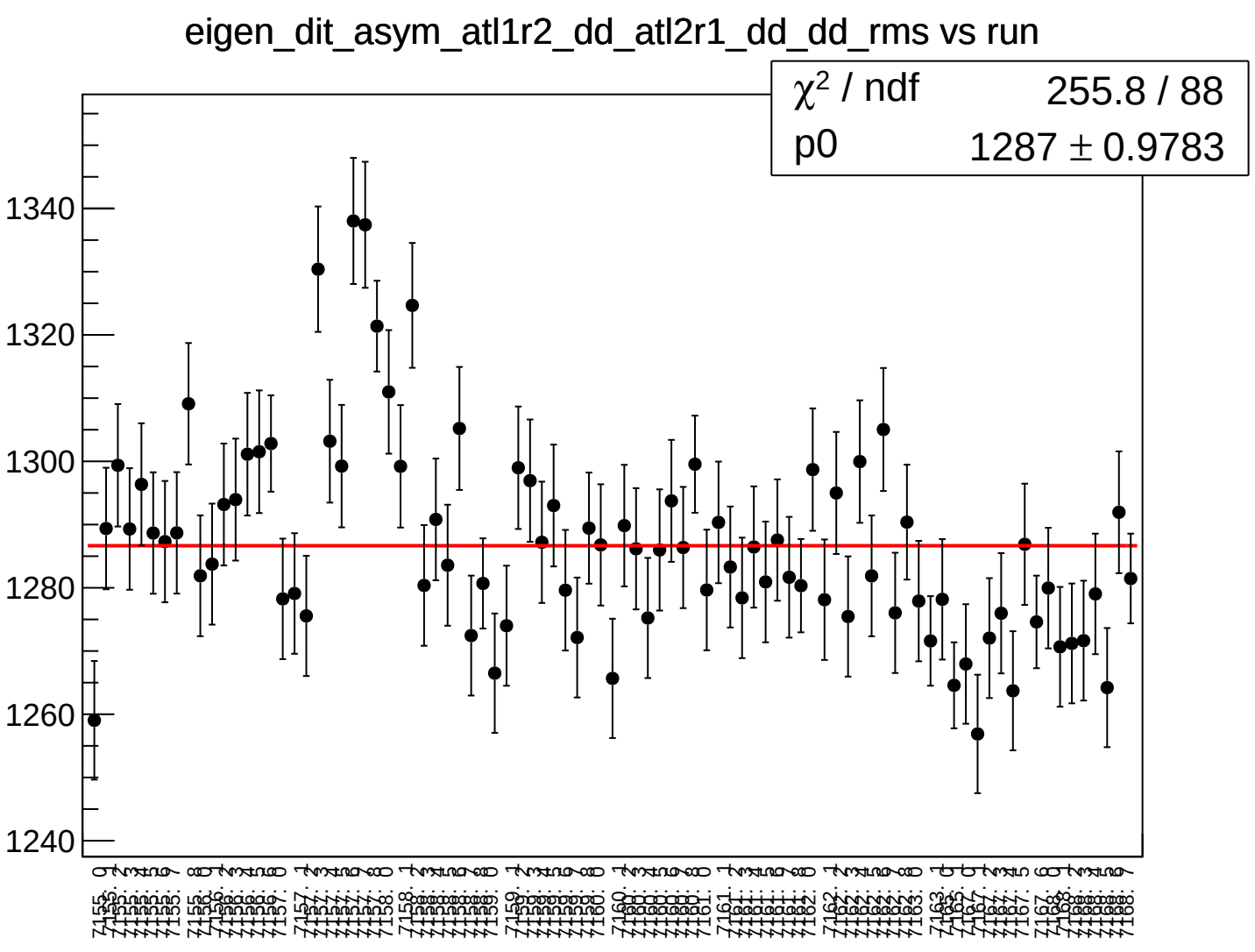

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
pull1D
Entries 89
Mean −0.01236
Std Dev 1.09

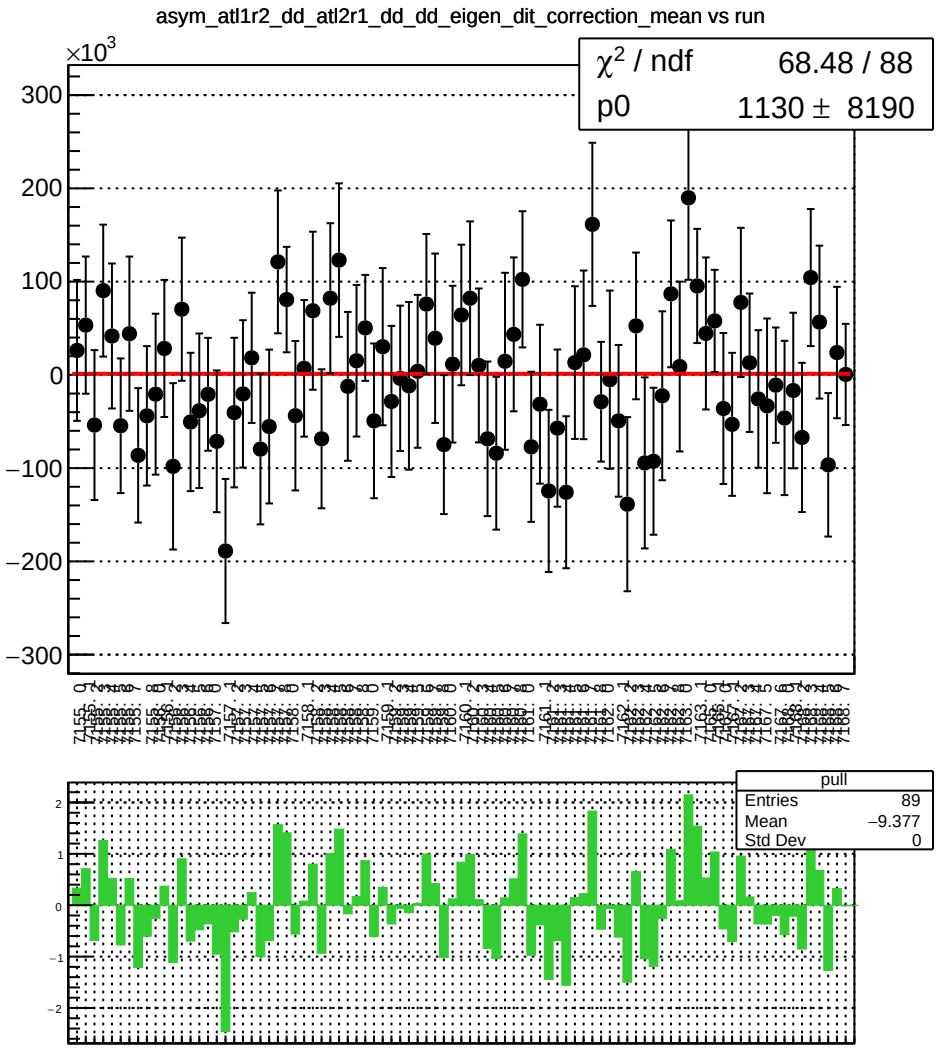

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9782
1340
1320
1300
1280
1260
1240

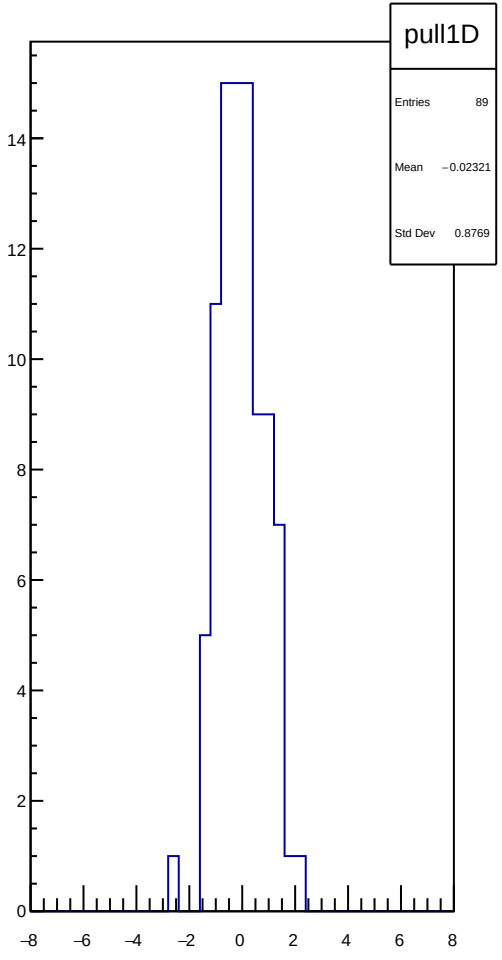

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
pull
Entries 89
Mean −9.377
Std Dev 0
pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769

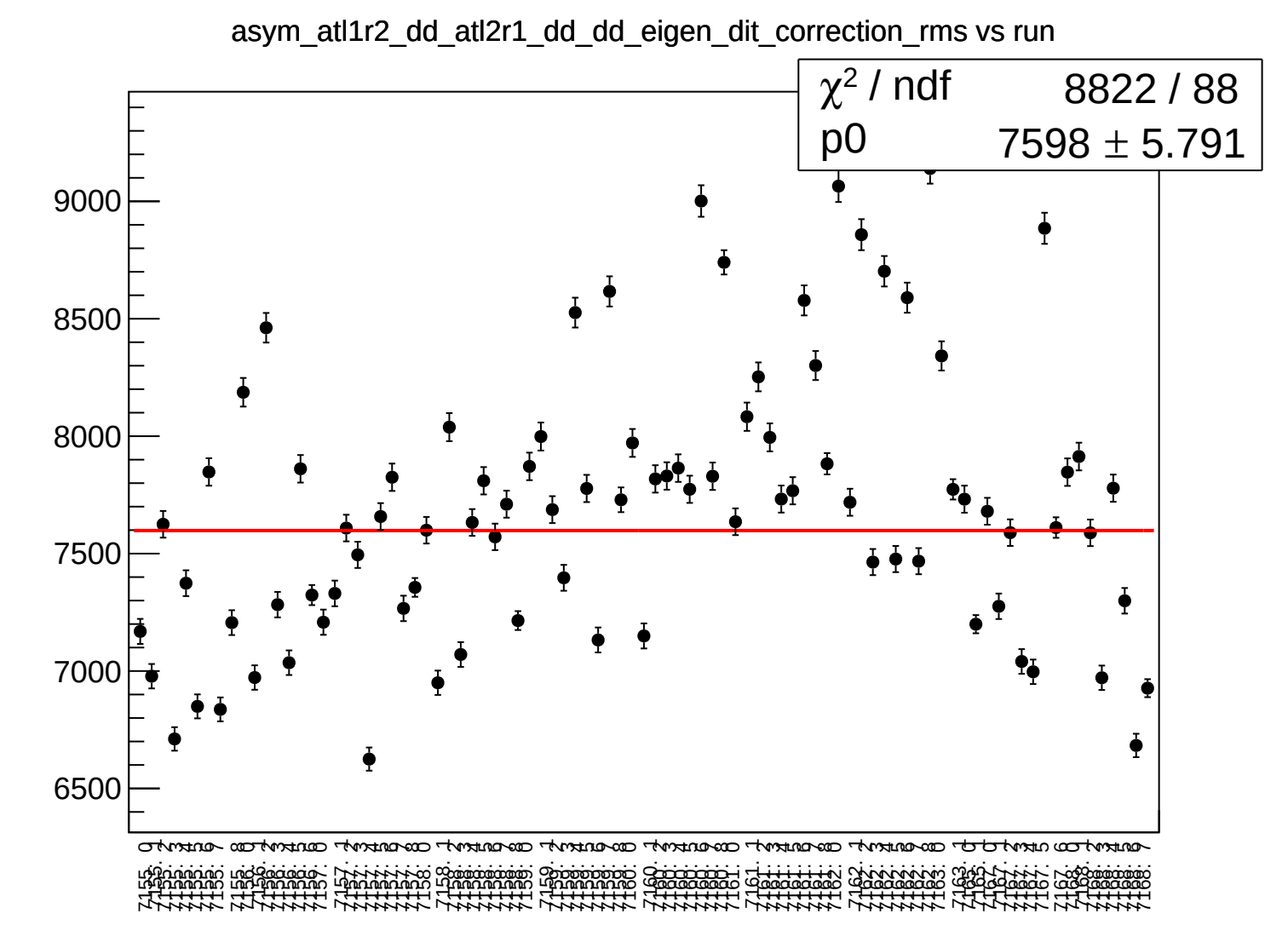

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

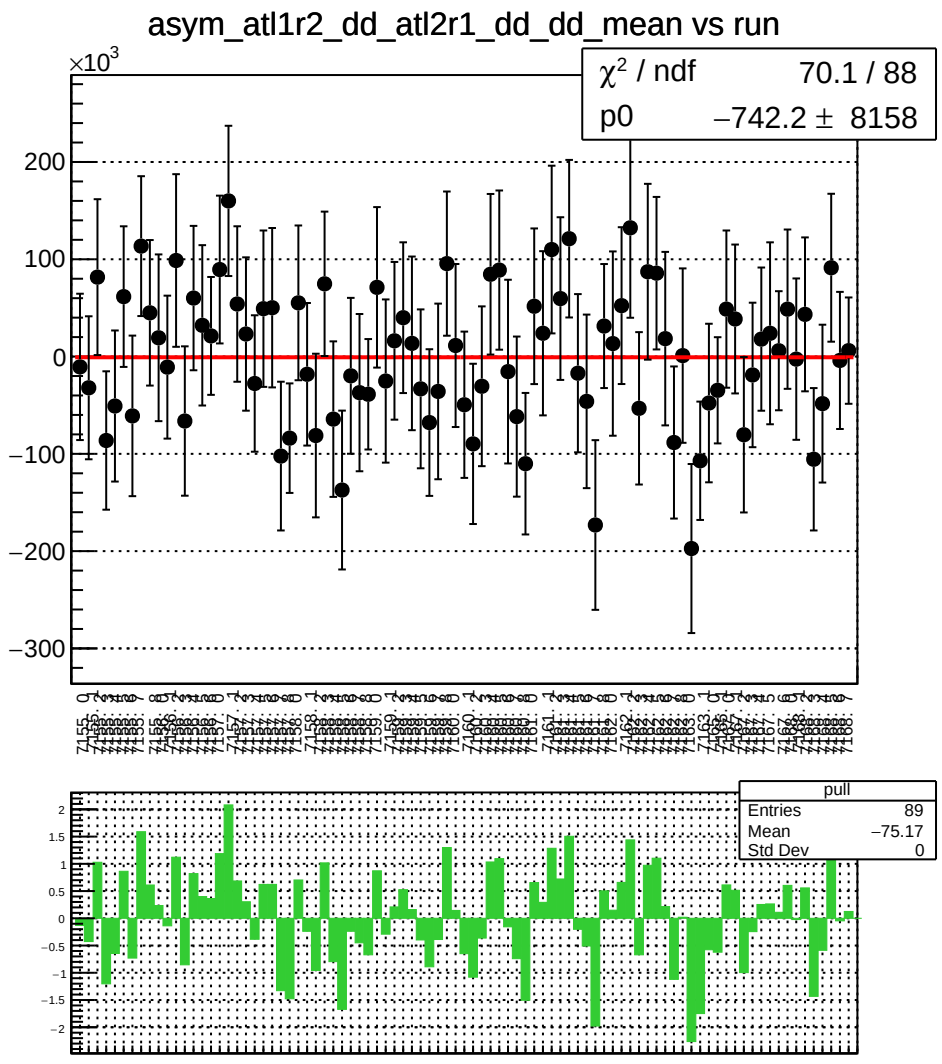

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 105.8 / 88
p0 −196.8 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 435.2
Std Dev 0
pull1D
Entries 89
Mean −0.01236
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

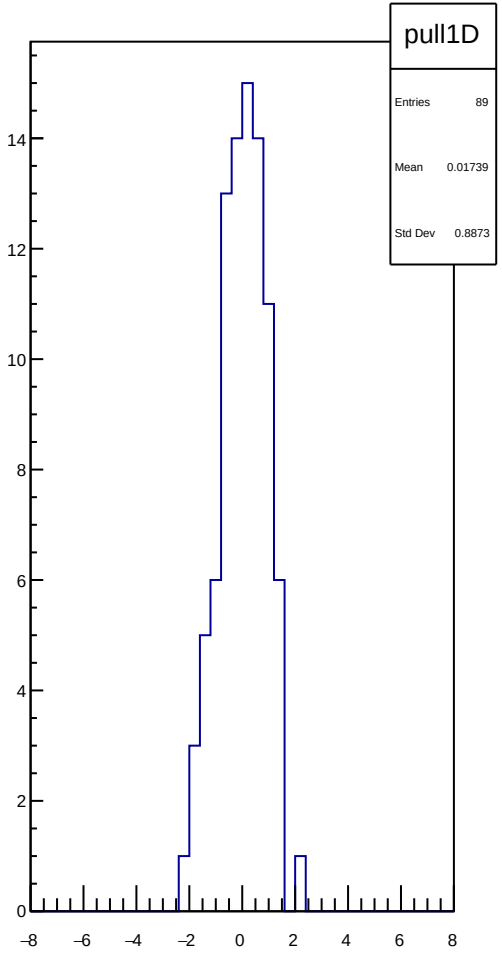

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 255.8 / 88
p0 1287 ± 0.9783
1340
1320
1300
1280
1260
1240

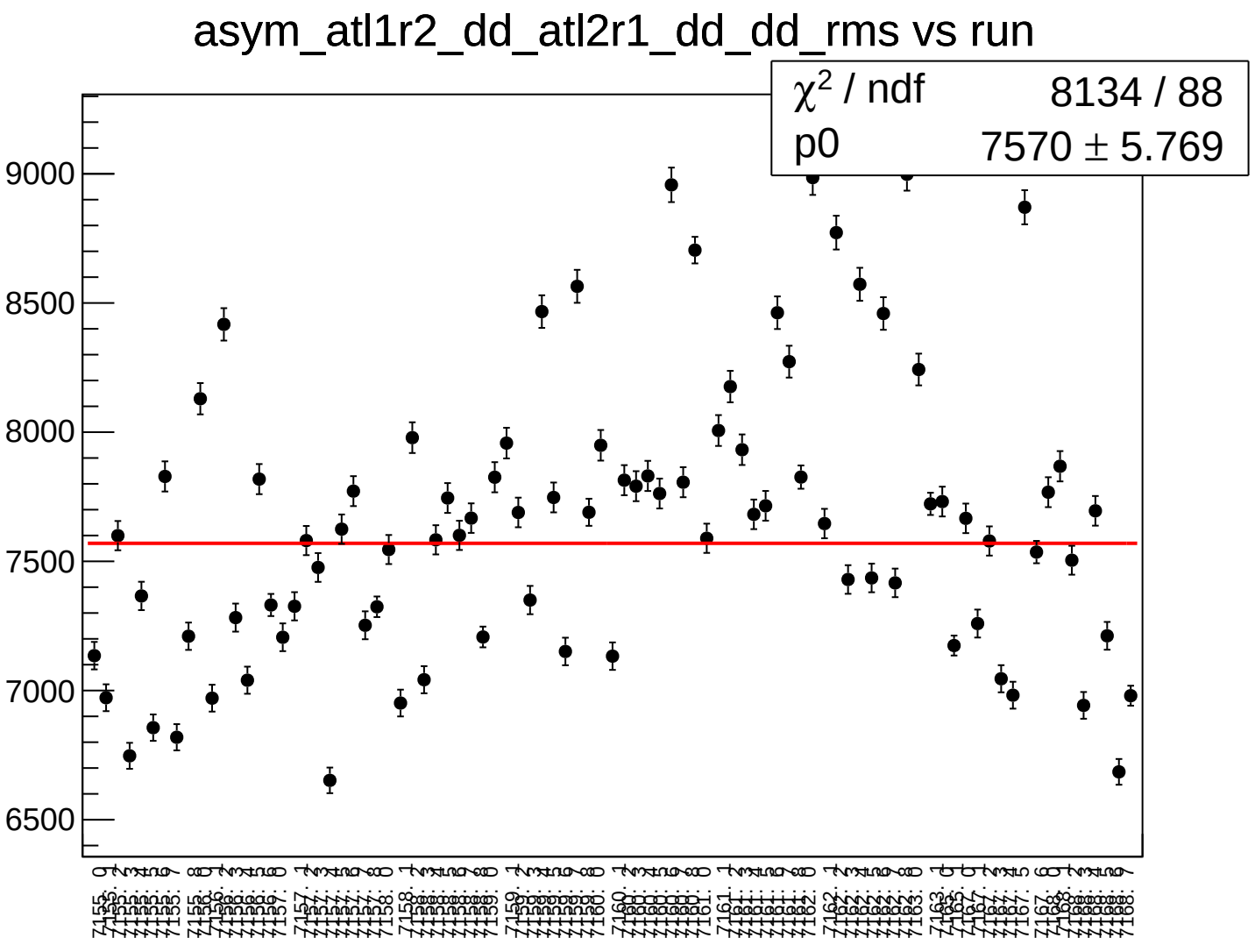

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.48 / 88
p0 1130 ± 8190
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.377
Std Dev 0
2
1
0
−1
−2

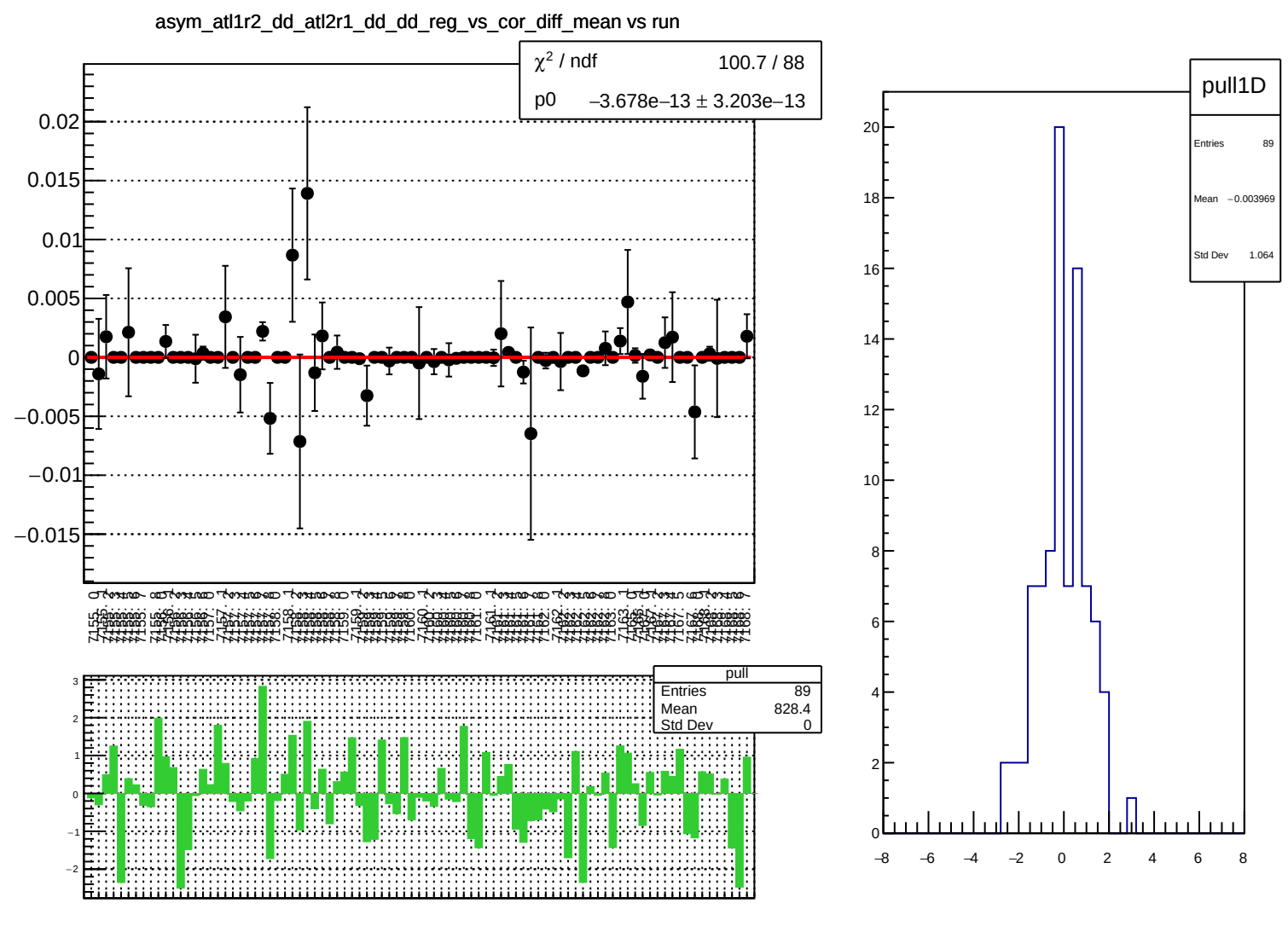

pull1D
Entries 89
Mean −0.02321
Std Dev 0.8769
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

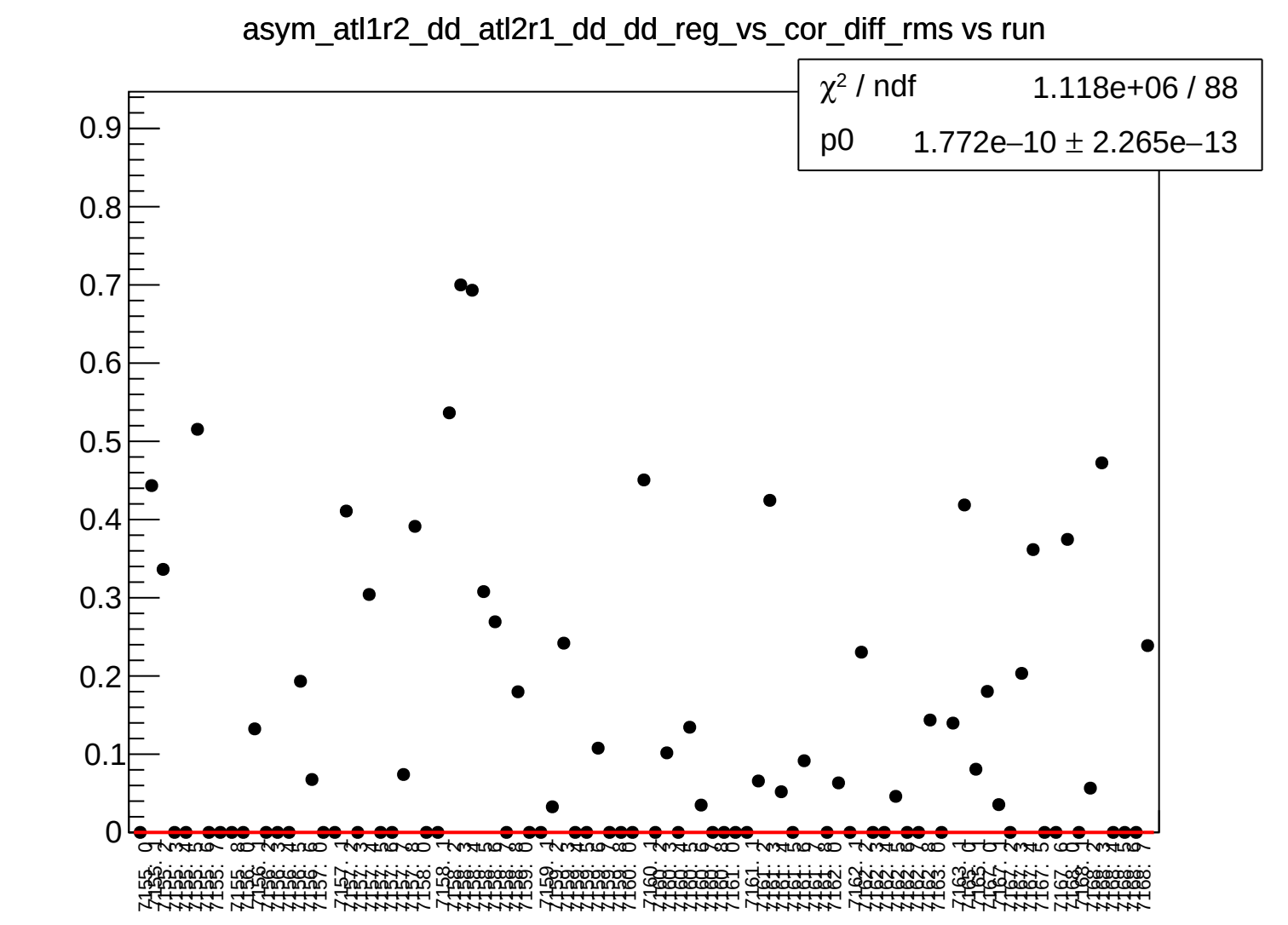

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 7598 ± 5.791
9000
8500
8000
7500
7000
6500

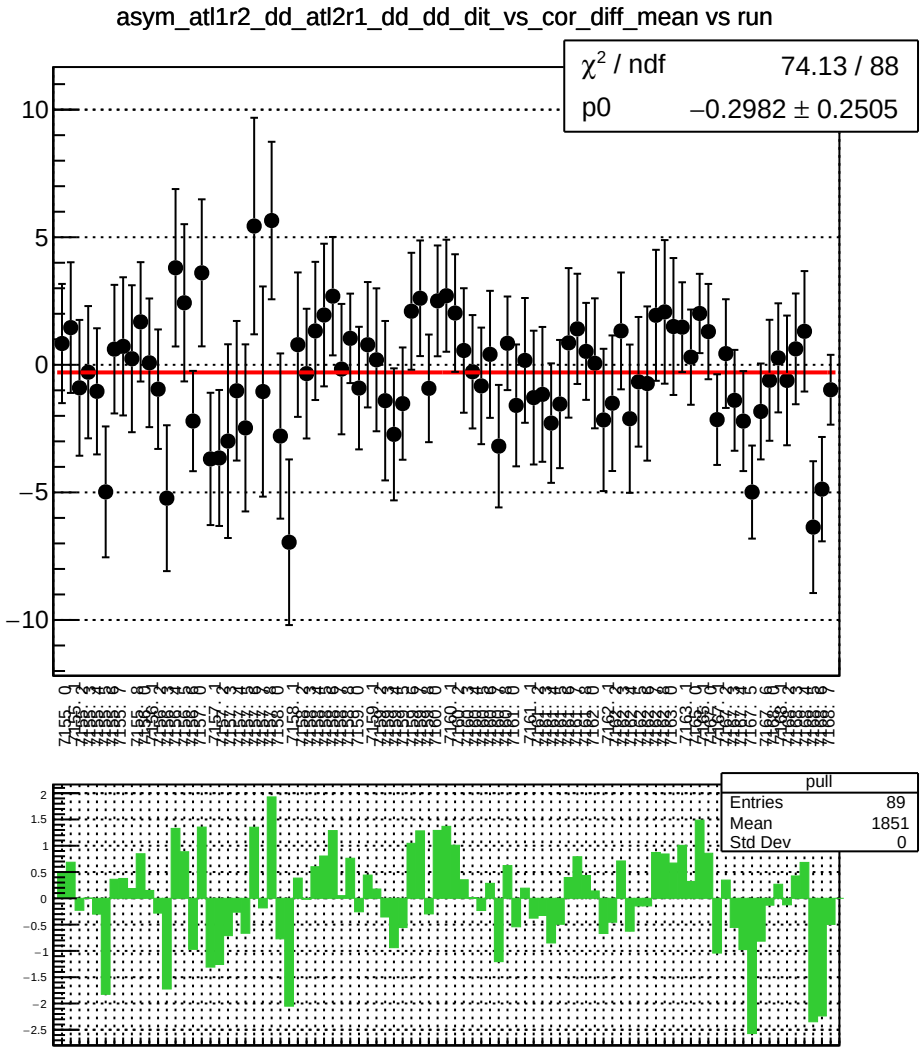

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 70.1 / 88
p0 −742.2 ± 8158
200
100
0
−100
−200
−300
pull
Entries 89
Mean −75.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

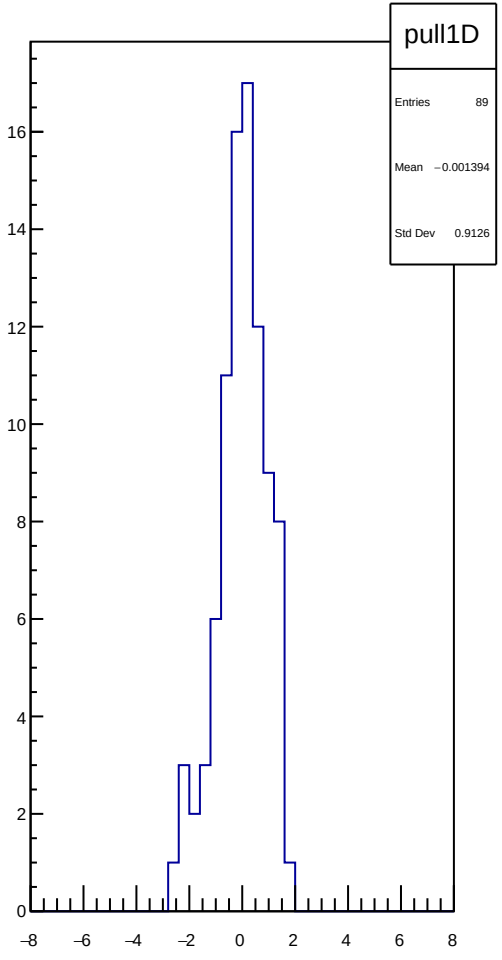

pull1D
Entries 89
Mean 0.01739
Std Dev 0.8873
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

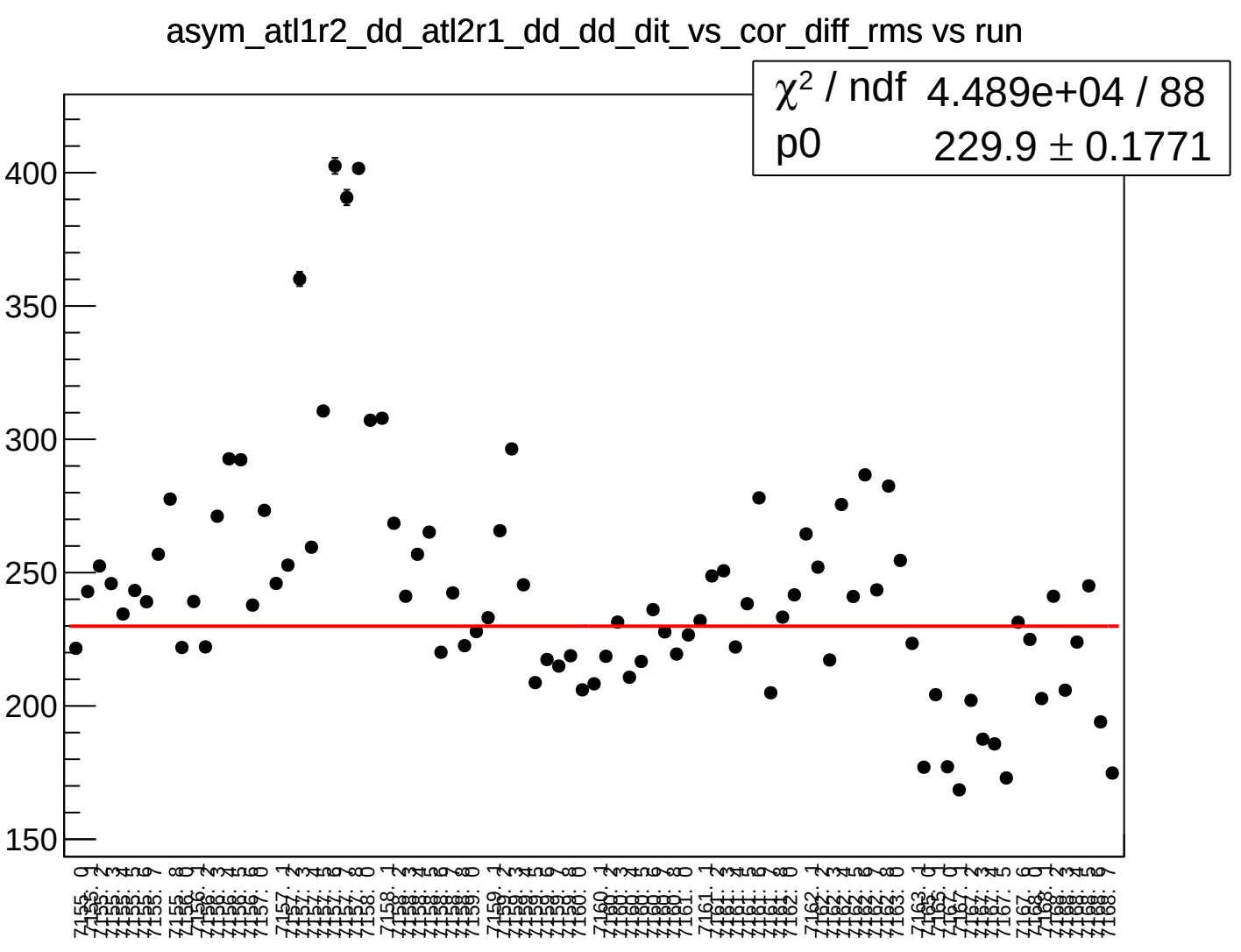

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 8134 / 88
p0 7570 ± 5.769
9000
8500
8000
7500
7000
6500

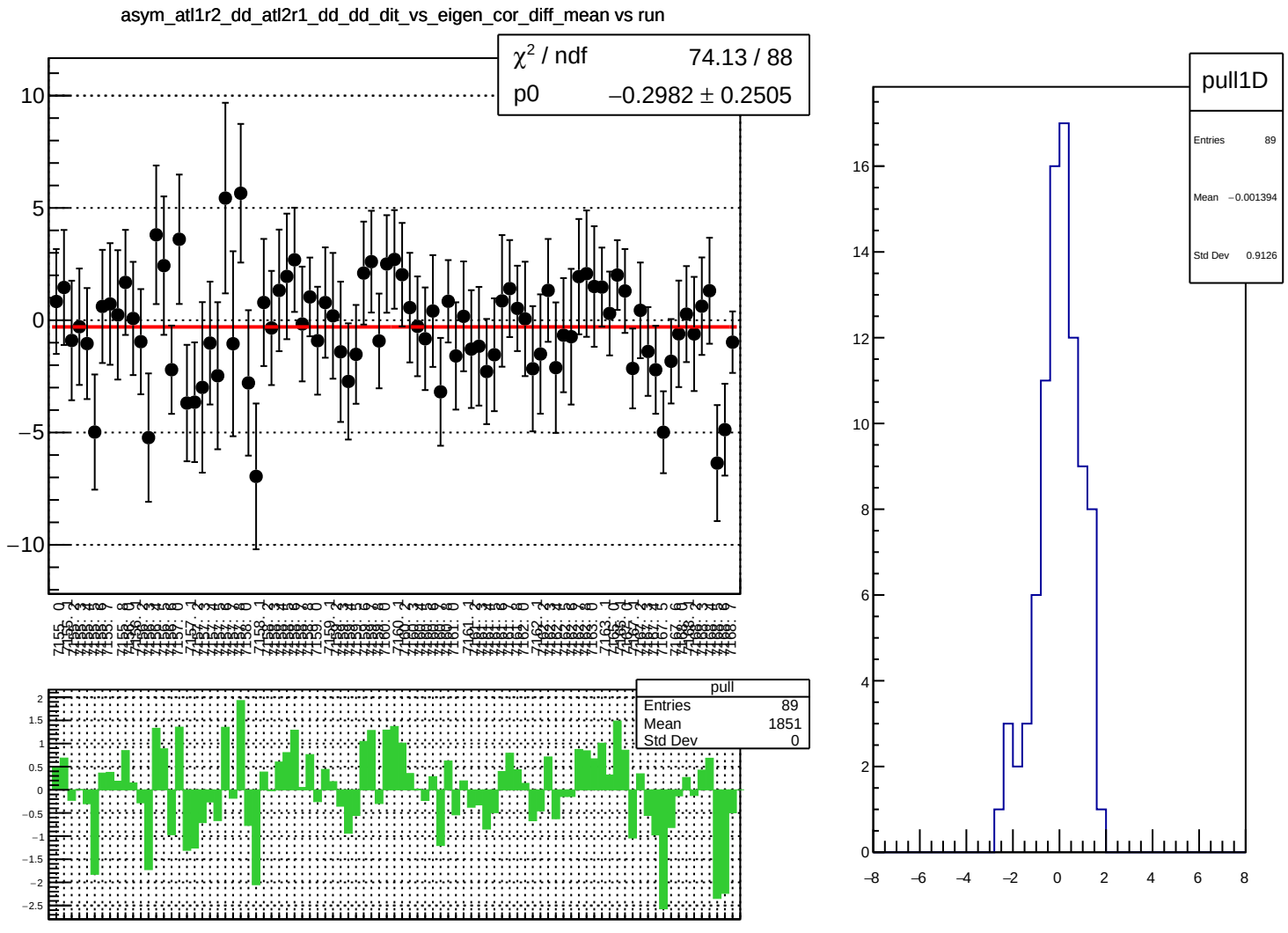

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 100.7 / 88
p0 −3.678e−13 ± 3.203e−13
pull
Entries 89
Mean 828.4
Std Dev 0
pull1D
Entries 89
Mean −0.003969
Std Dev 1.064

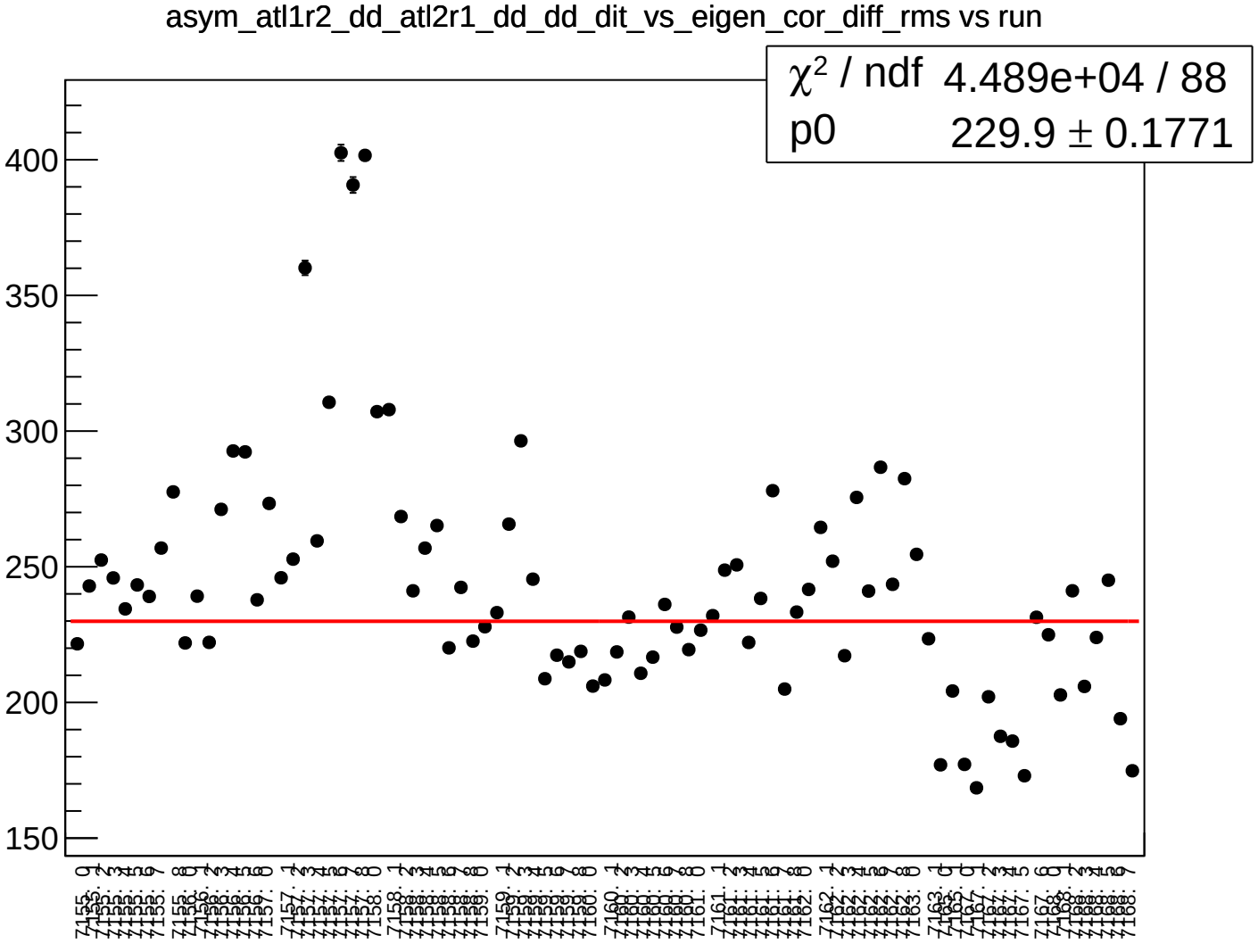

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.118e+06 / 88
p0 1.772e−10 ± 2.265e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

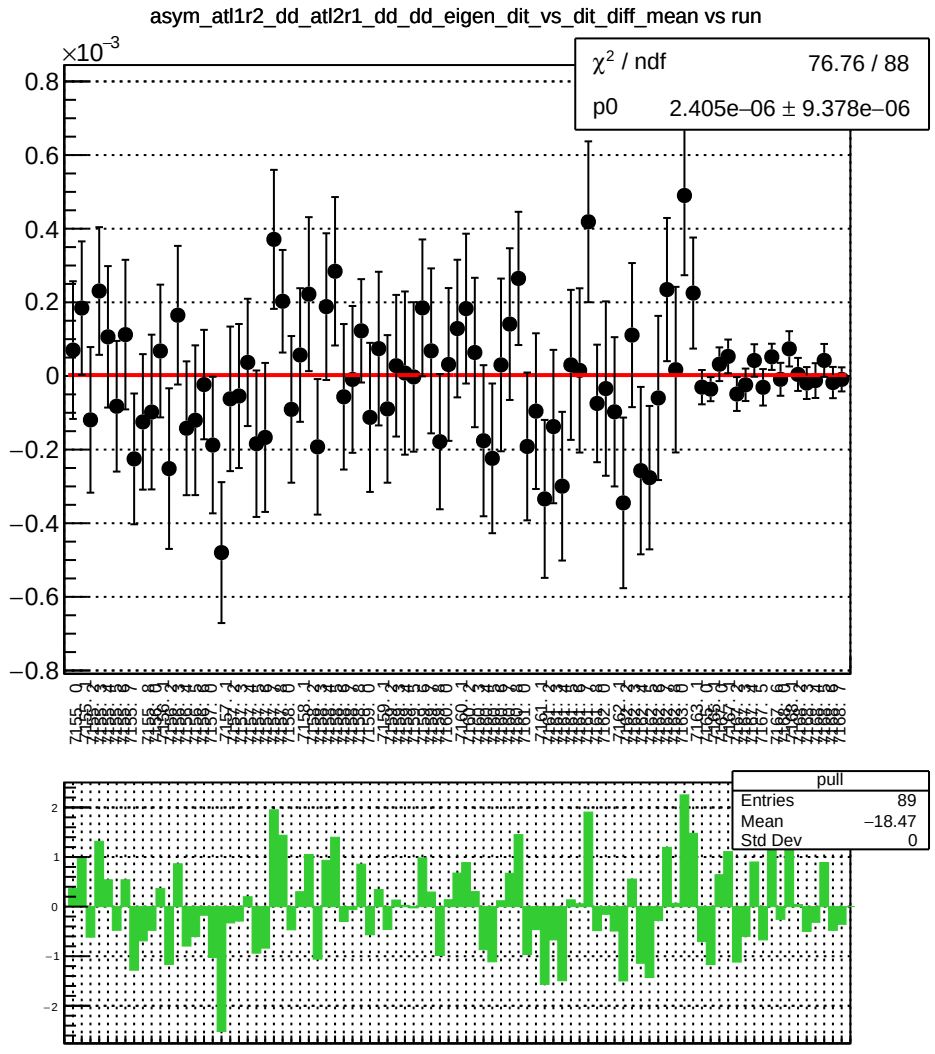

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0

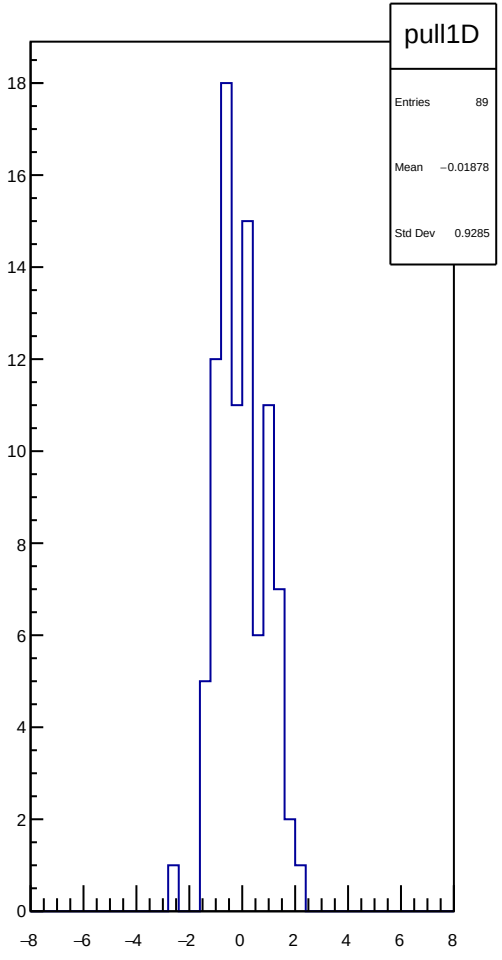

pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

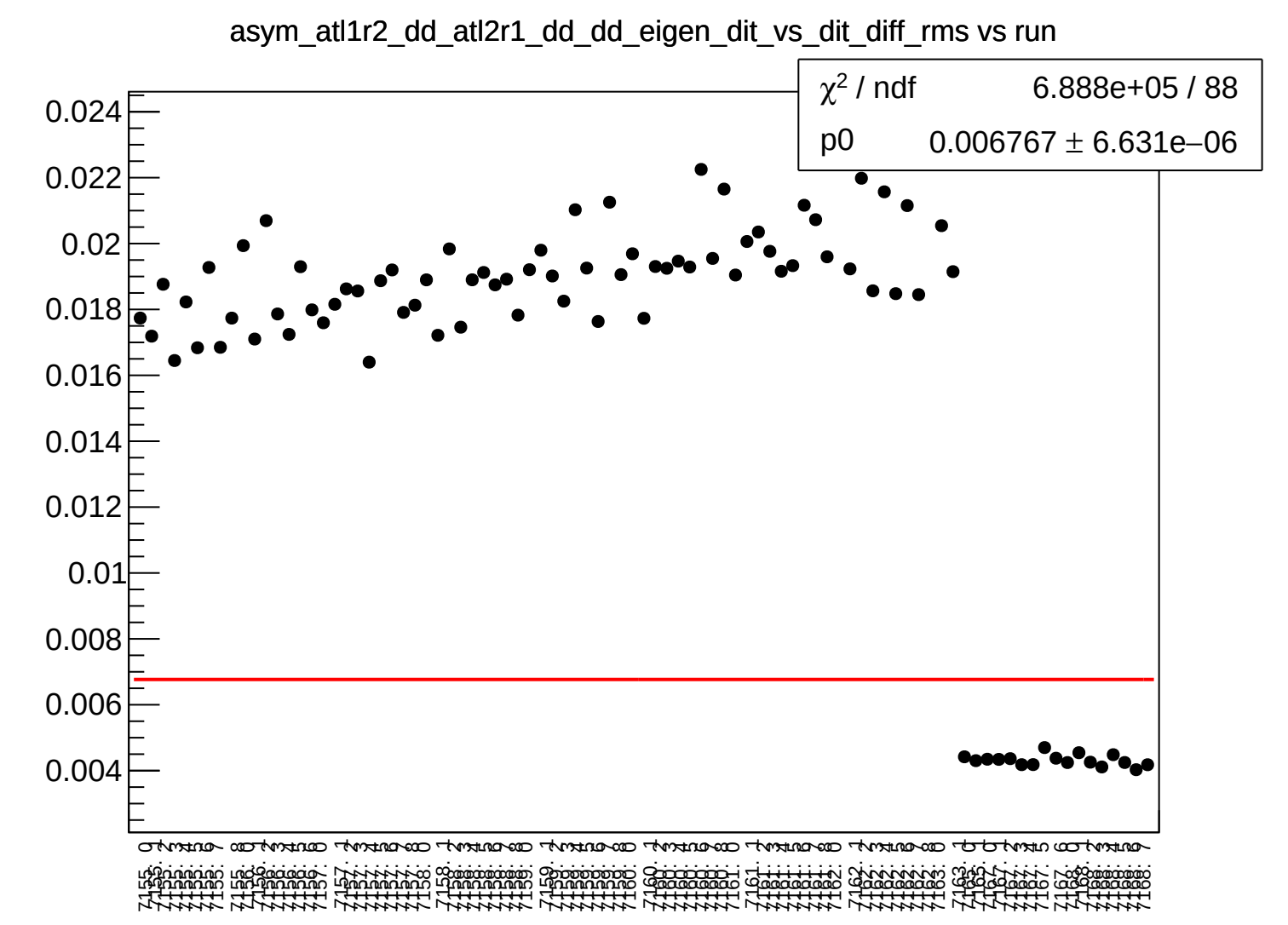

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

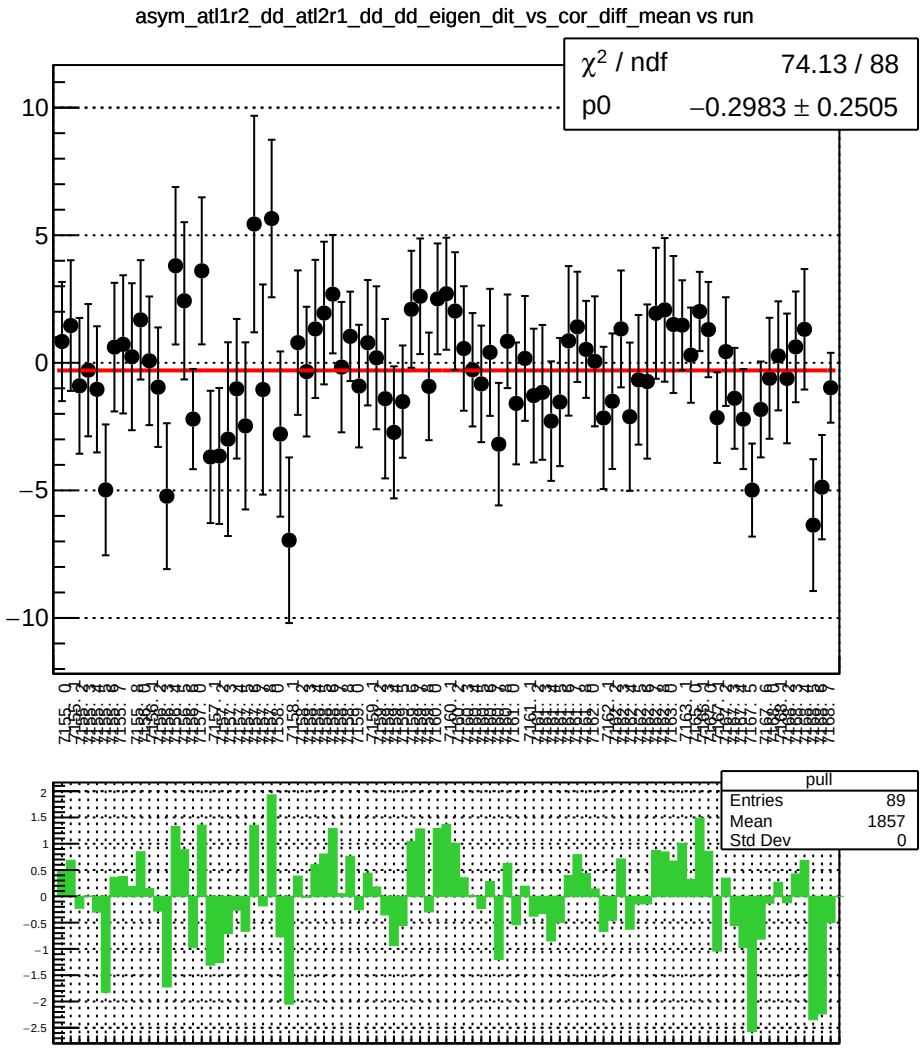

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2982 ± 0.2505
pull
Entries 89
Mean 1851
Std Dev 0
pull1D
Entries 89
Mean −0.001394
Std Dev 0.9126

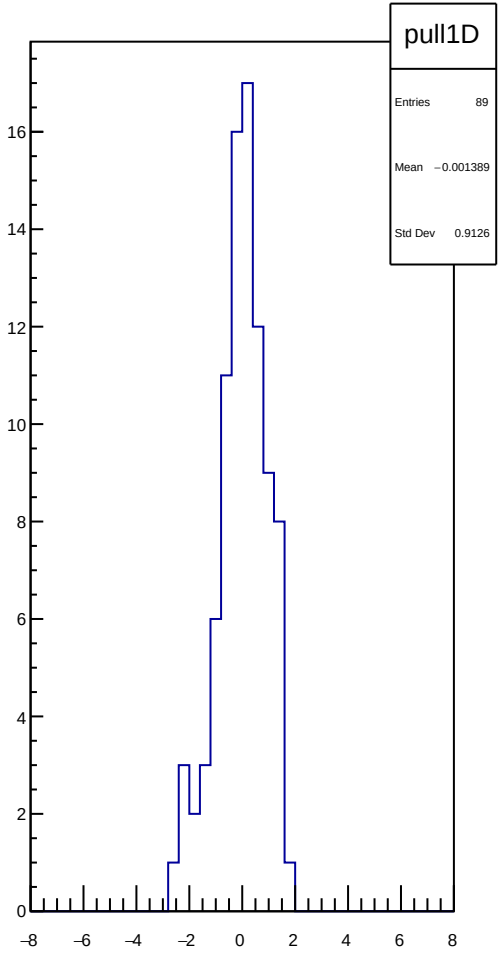

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.489e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

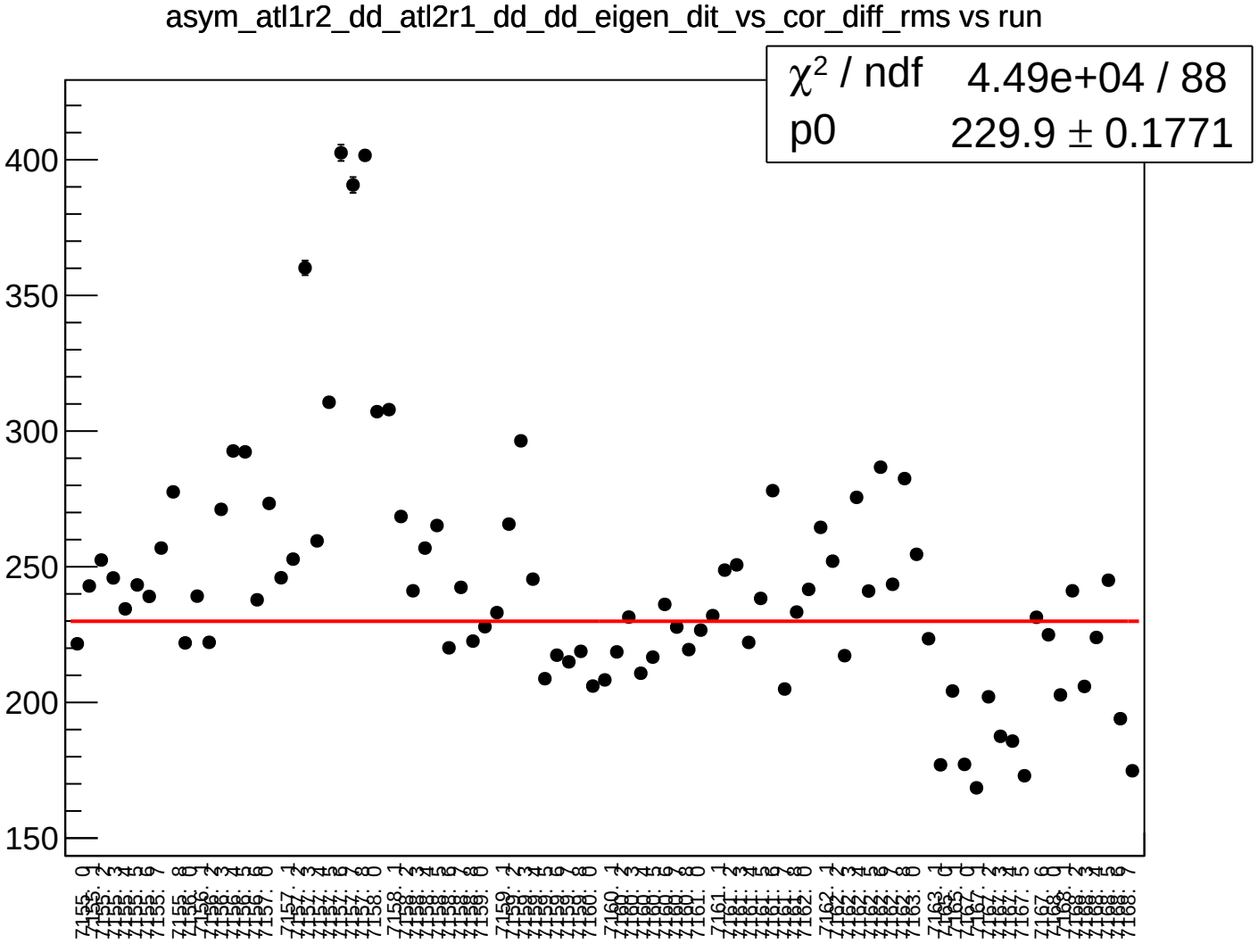

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.76 / 88
p0 2.405e−06 ± 9.378e−06
pull
Entries 89
Mean −18.47
Std Dev 0

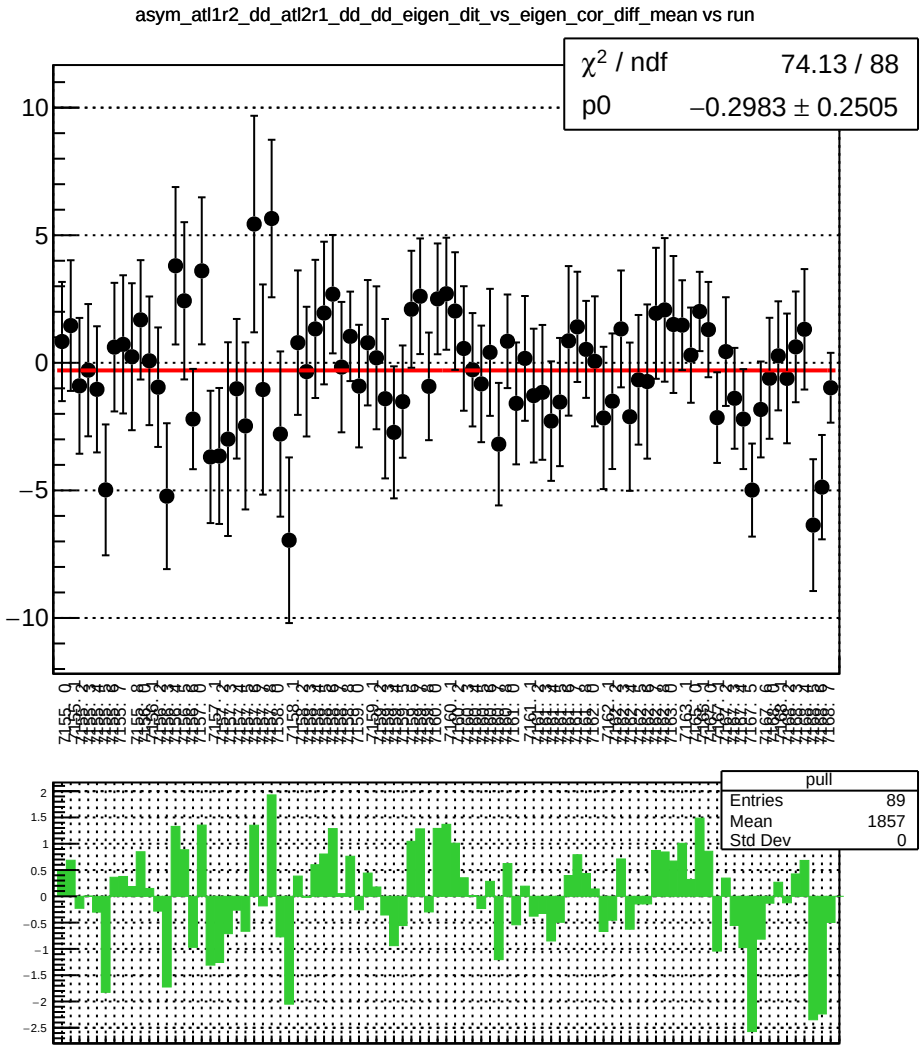

pull1D
Entries 89
Mean −0.01878
Std Dev 0.9285

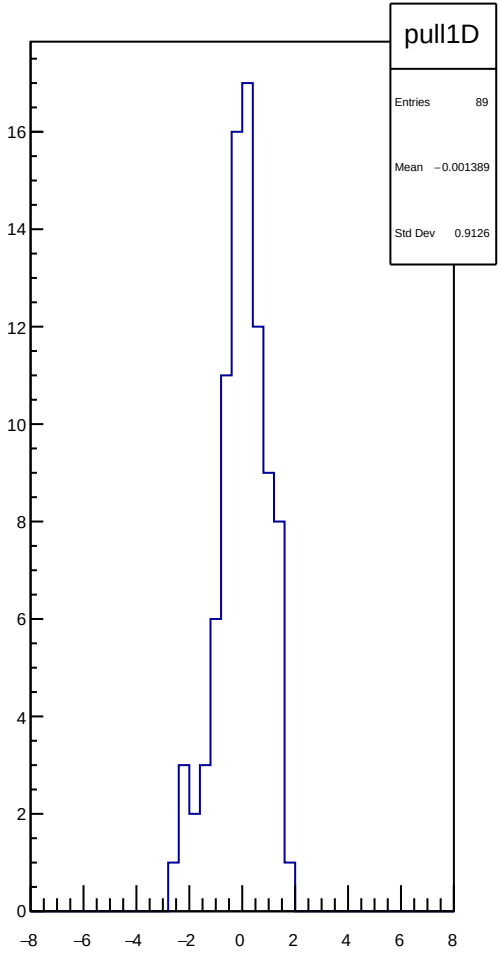

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.888e+05 / 88
p0 0.006767 ± 6.631e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

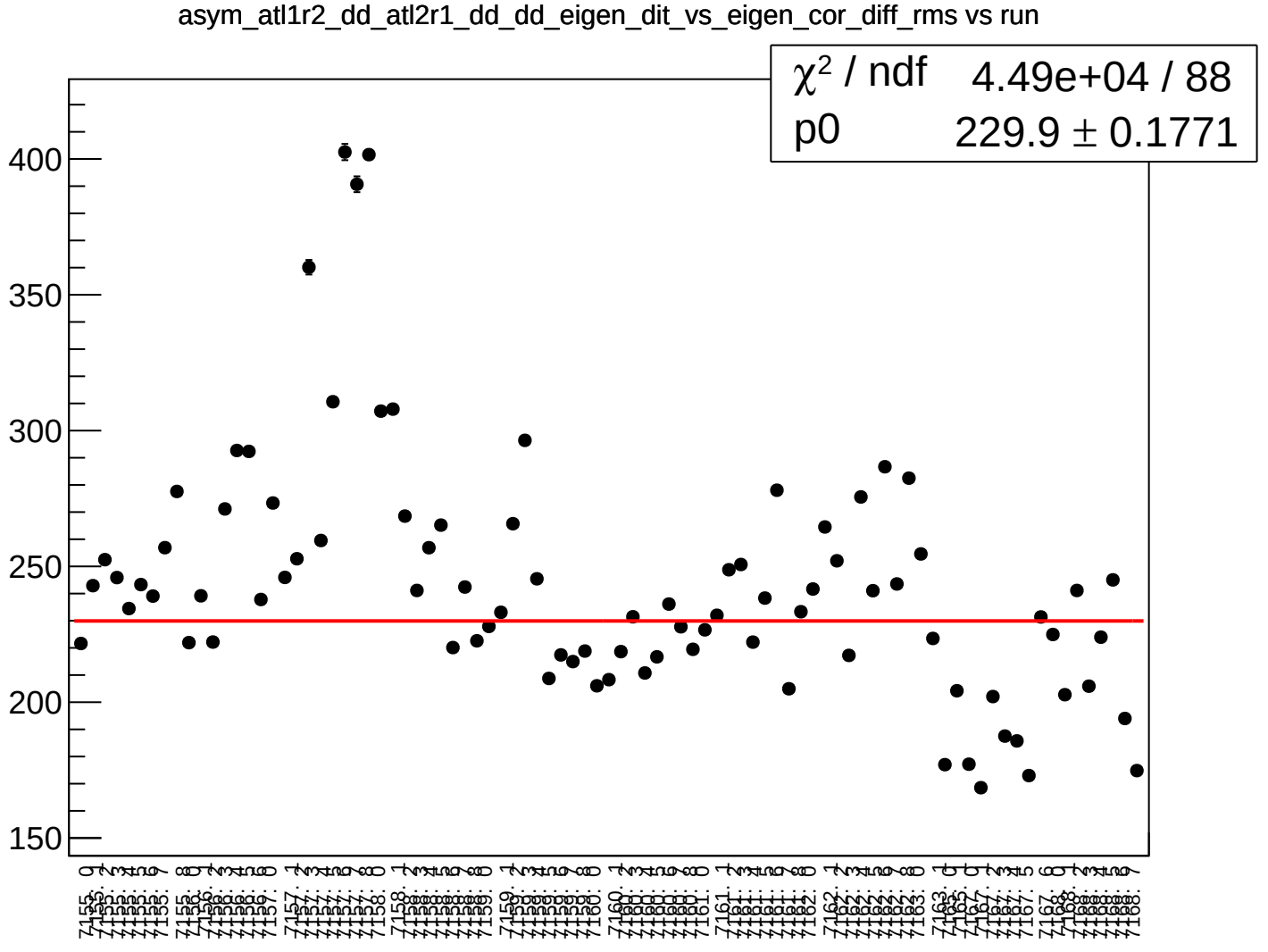

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0

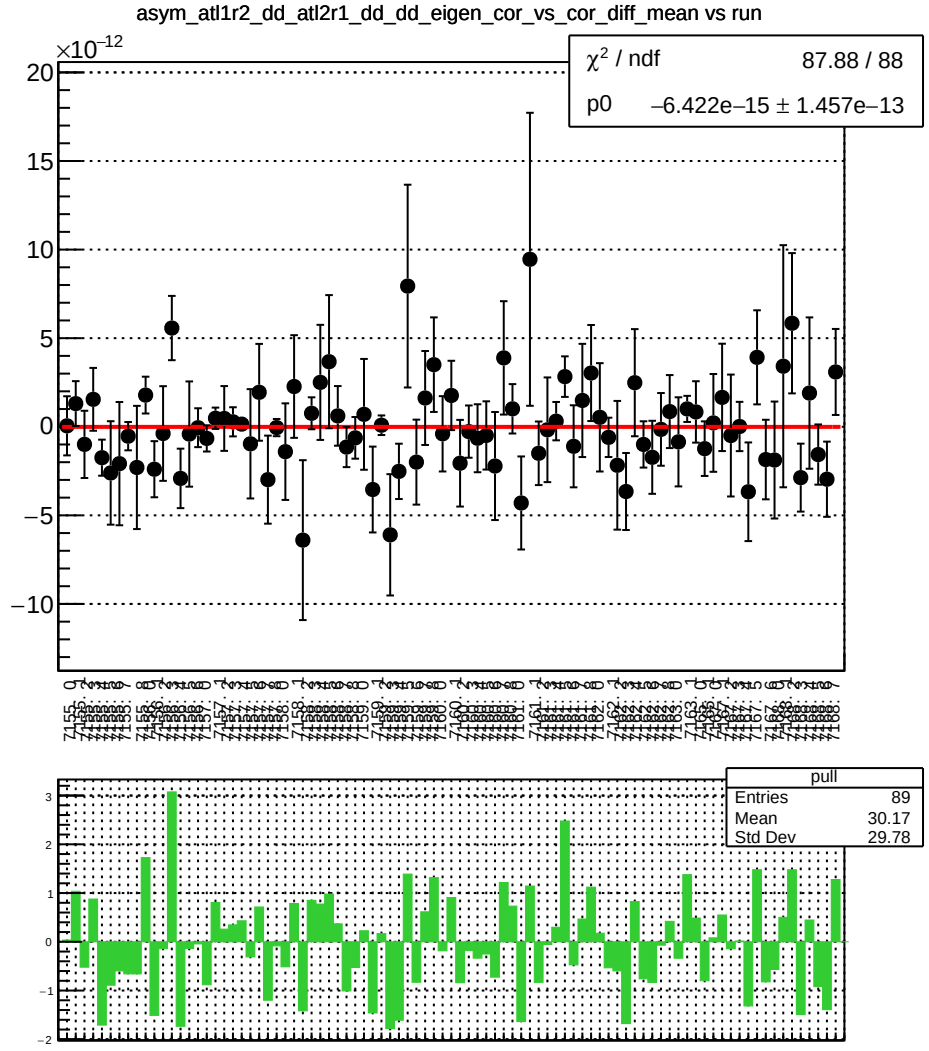

pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

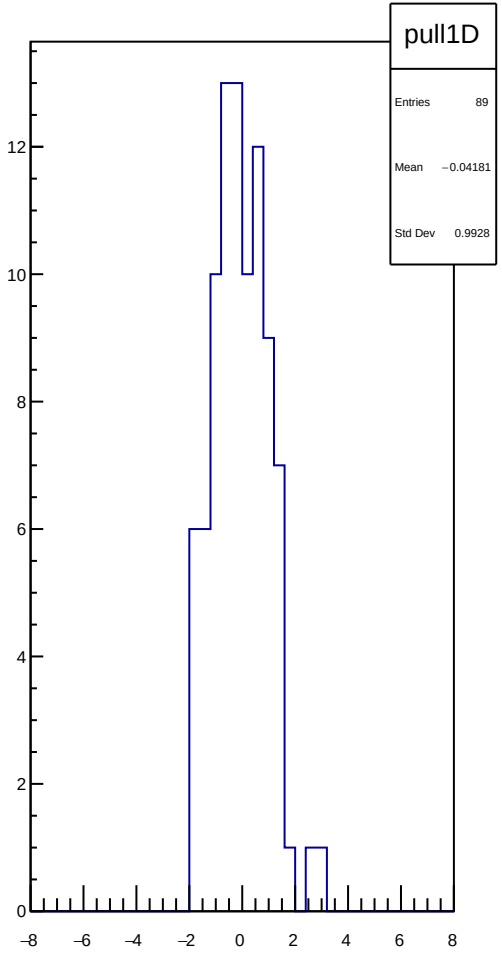

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

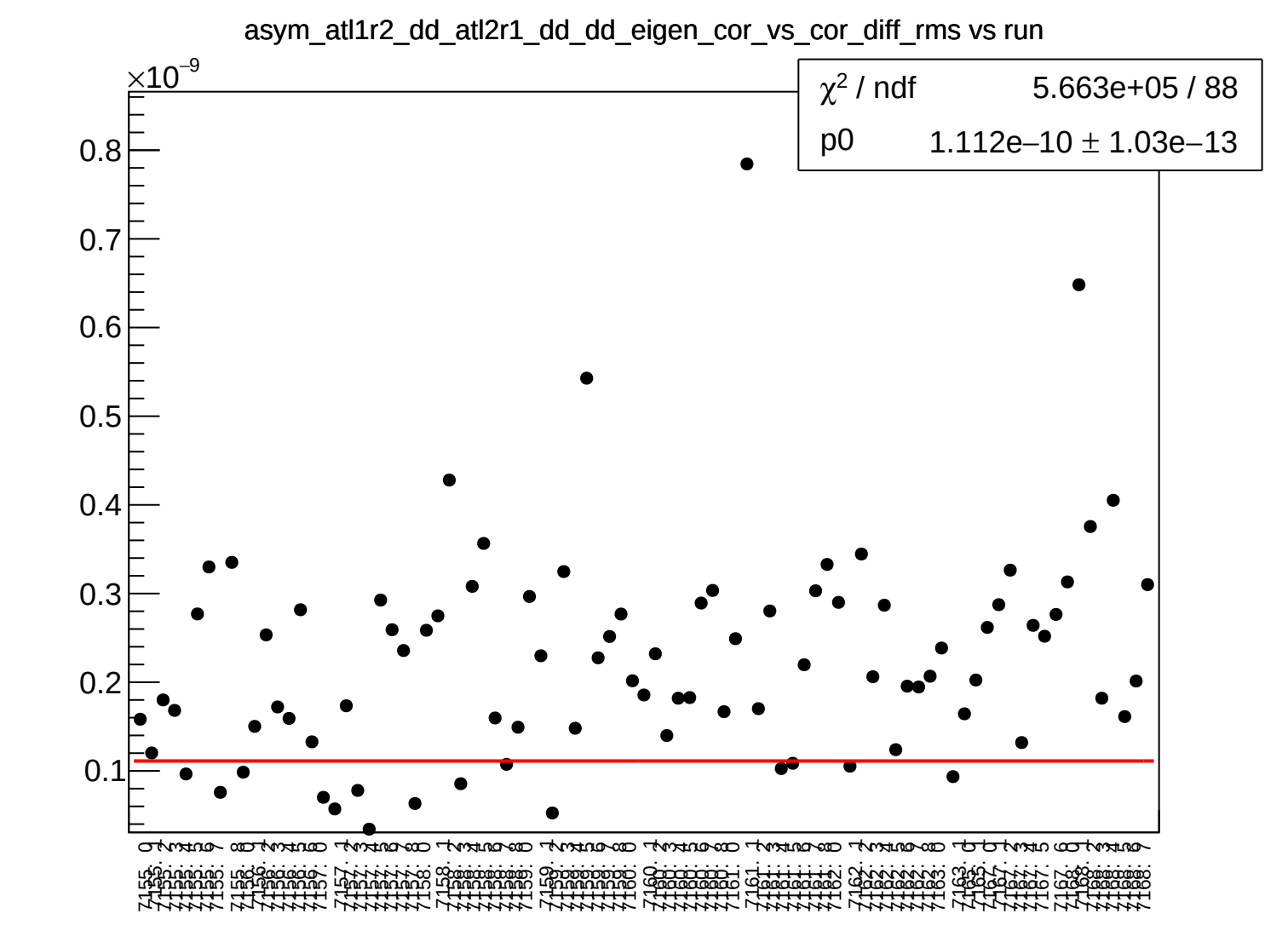

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.13 / 88
p0 −0.2983 ± 0.2505
pull
Entries 89
Mean 1857
Std Dev 0

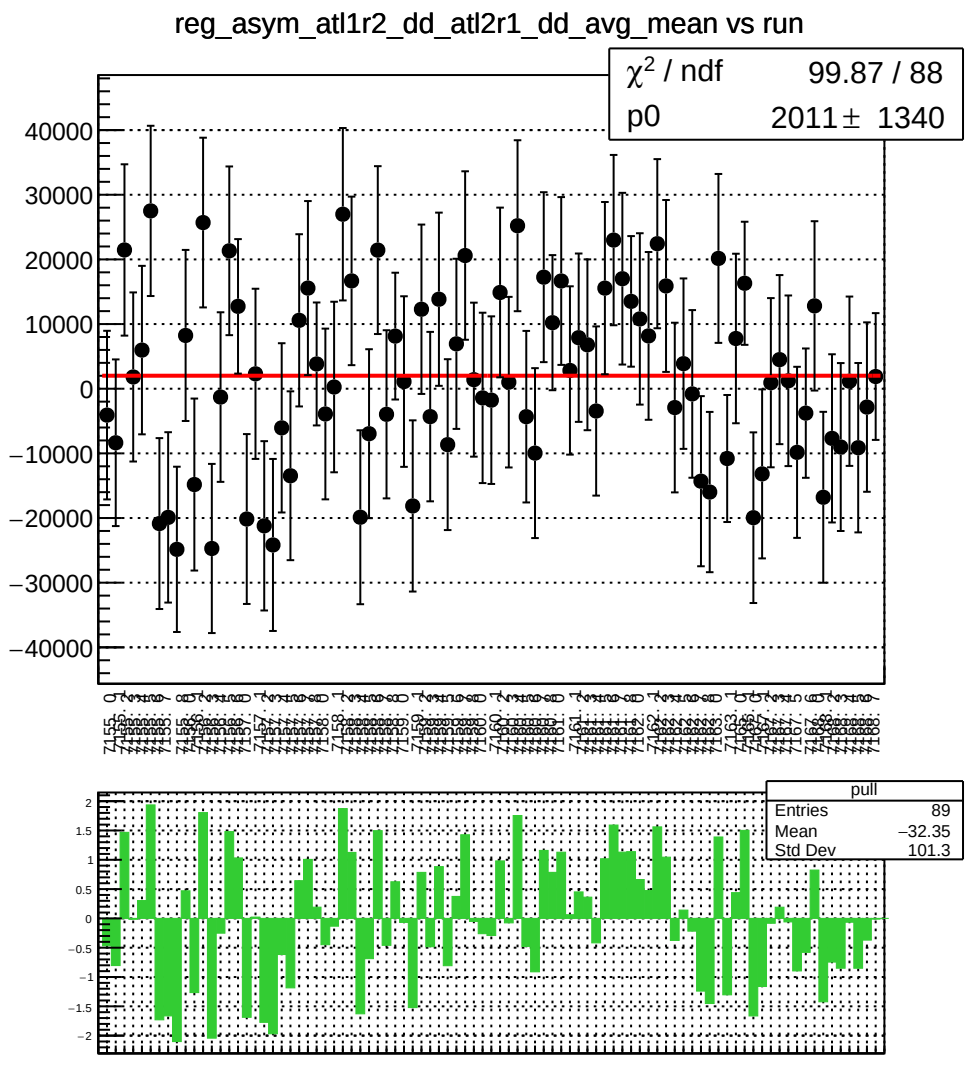

pull1D
Entries 89
Mean −0.001389
Std Dev 0.9126

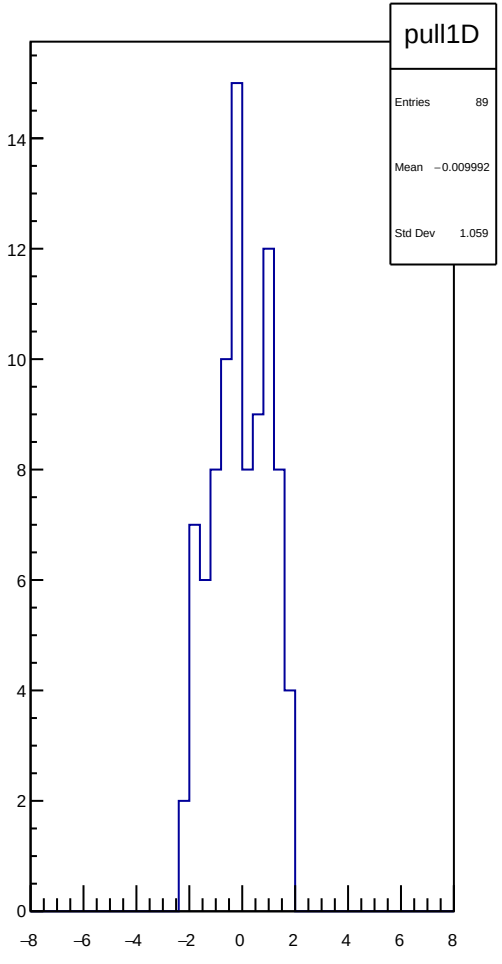

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.49e+04 / 88
p0 229.9 ± 0.1771
400
350
300
250
200
150

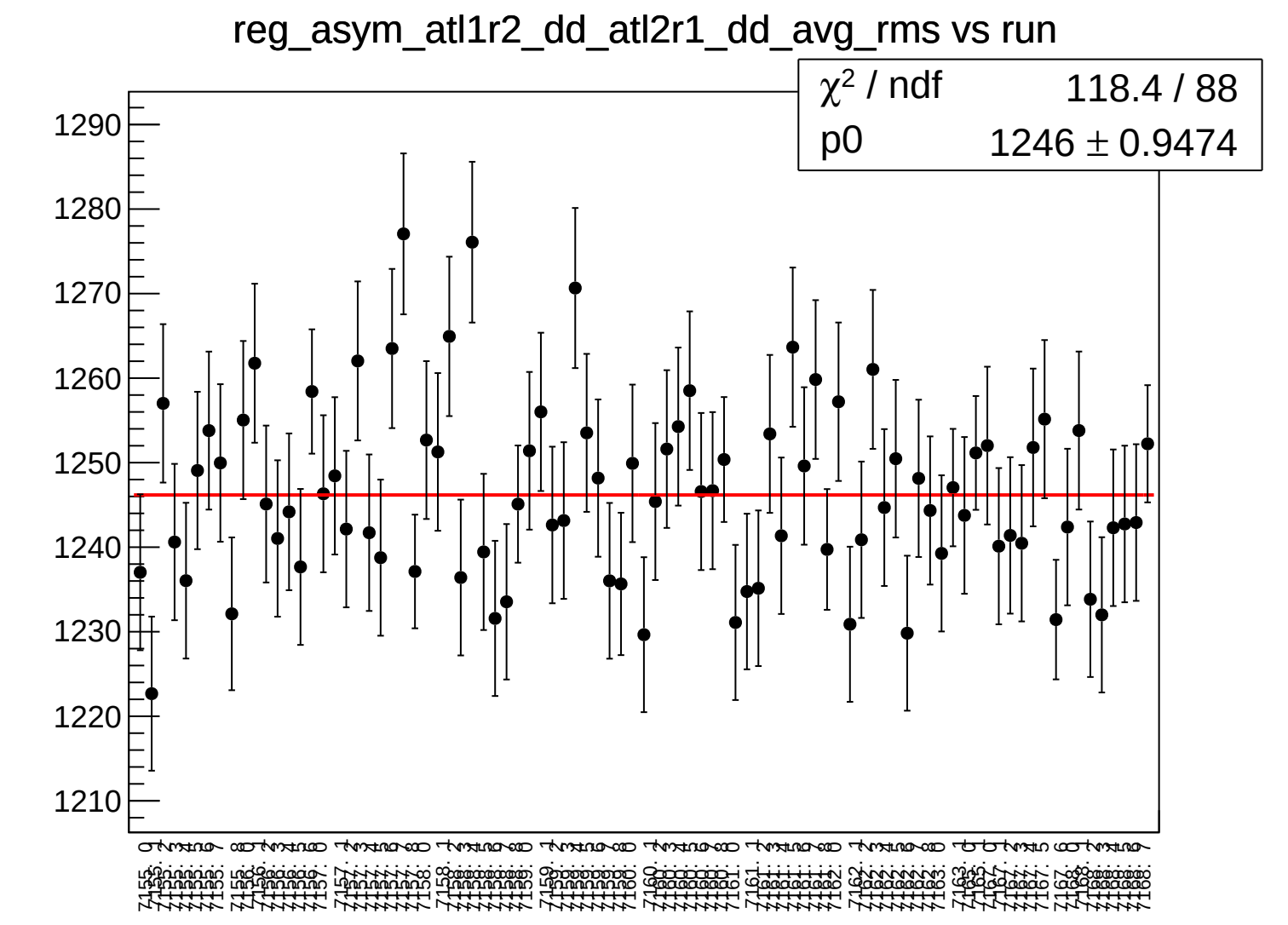

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.88 / 88
p0 −6.422e−15 ± 1.457e−13
pull
Entries 89
Mean 30.17
Std Dev 29.78

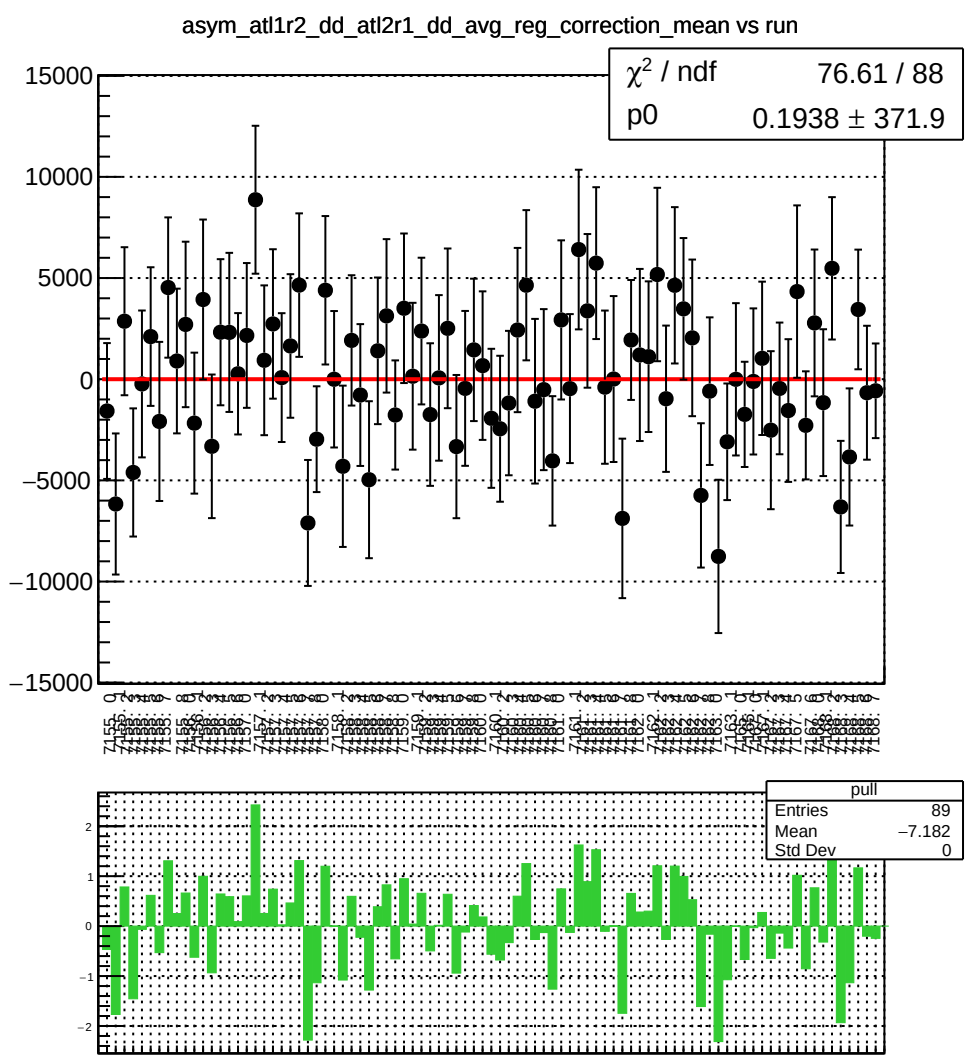

pull1D
Entries 89
Mean −0.04181
Std Dev 0.9928

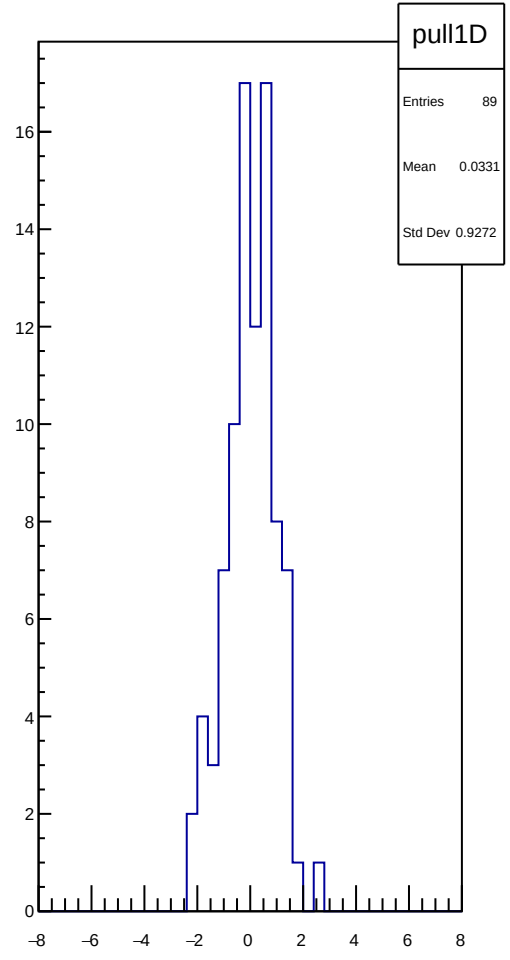

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.663e+05 / 88
p0 1.112e−10 ± 1.03e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

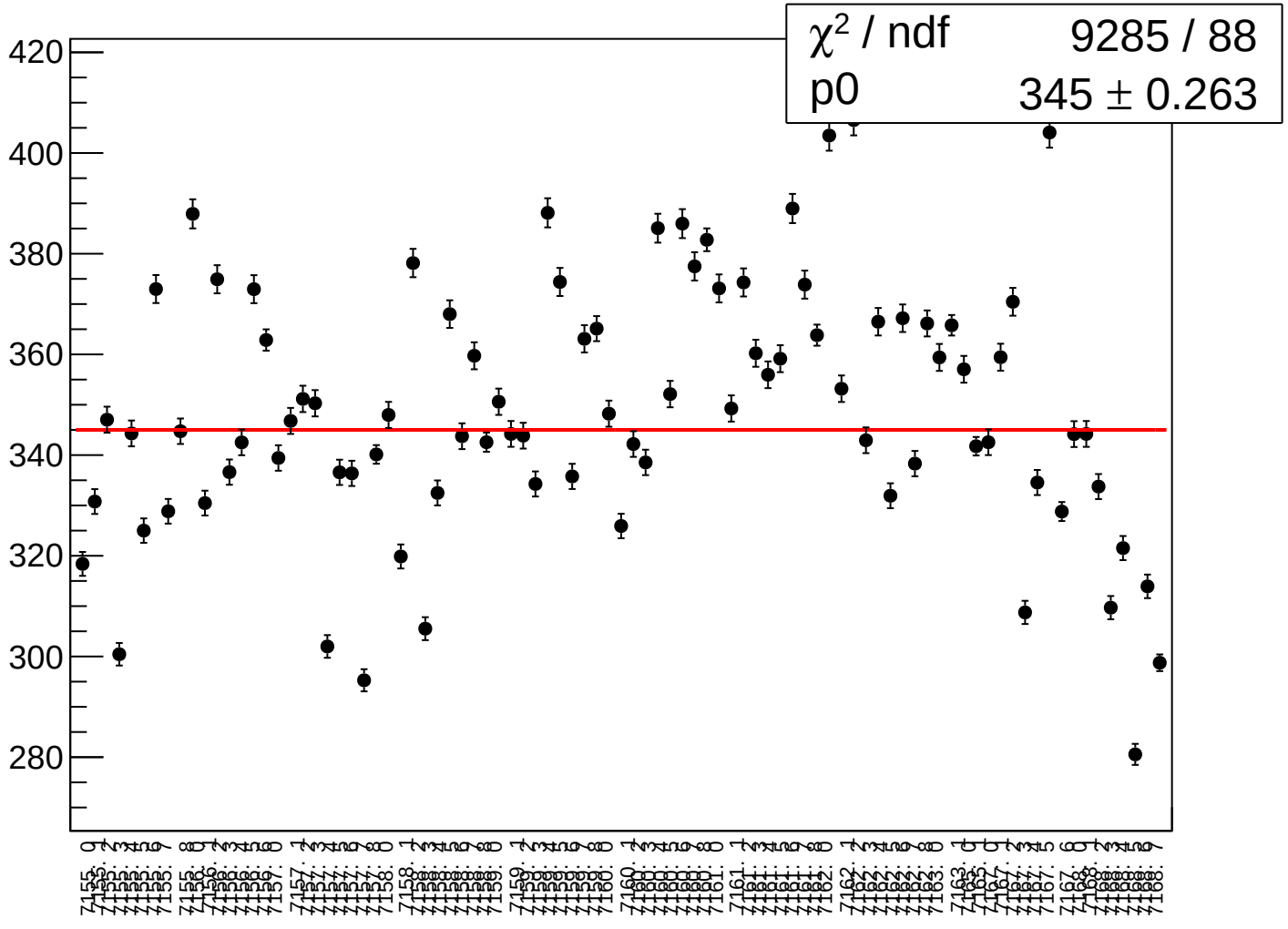

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.35
Std Dev 101.3

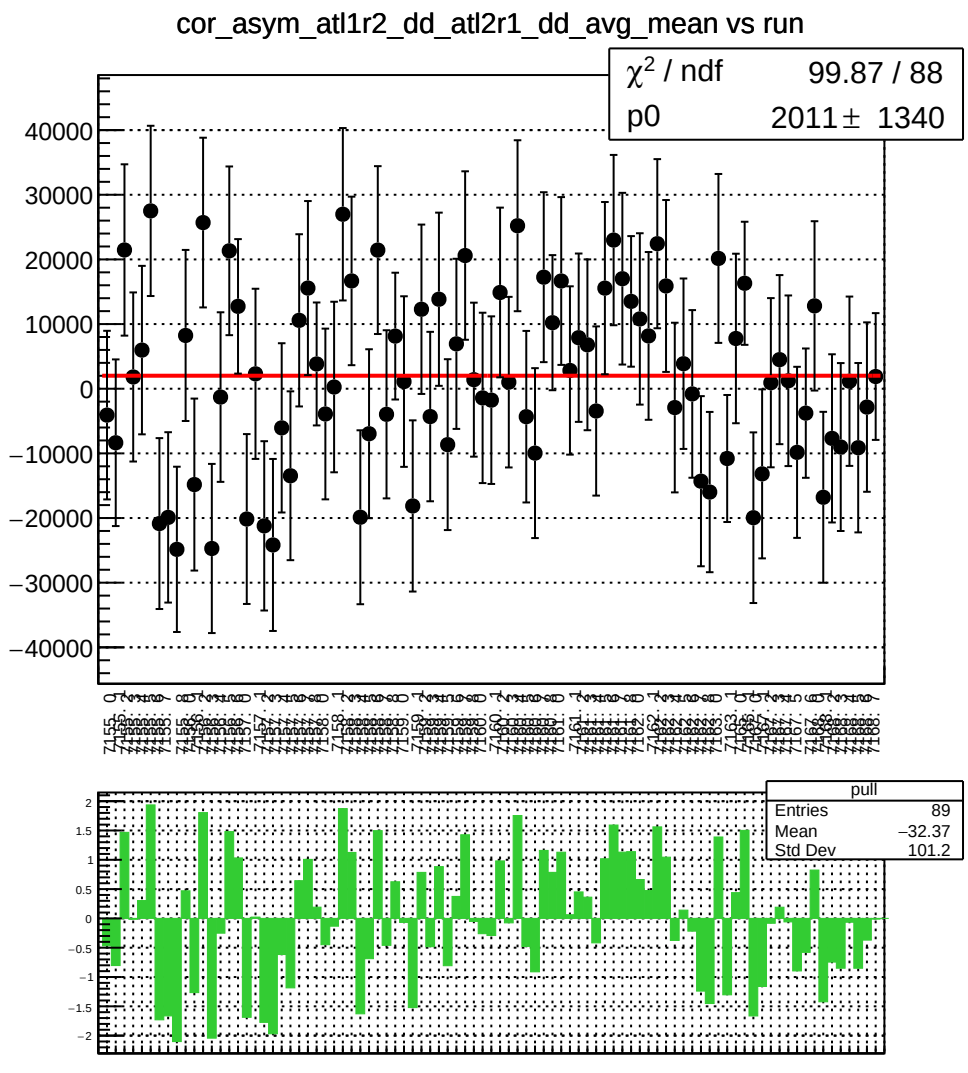

pull1D
Entries 89
Mean −0.009992
Std Dev 1.059

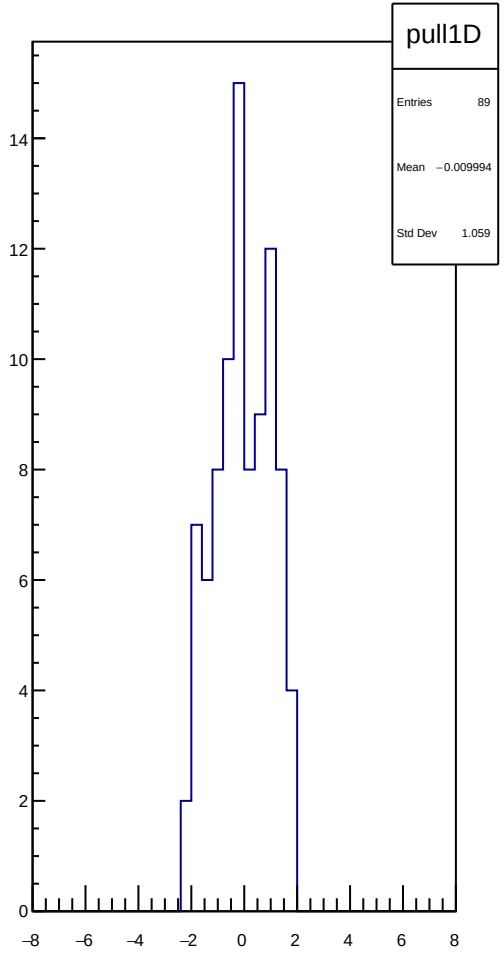

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

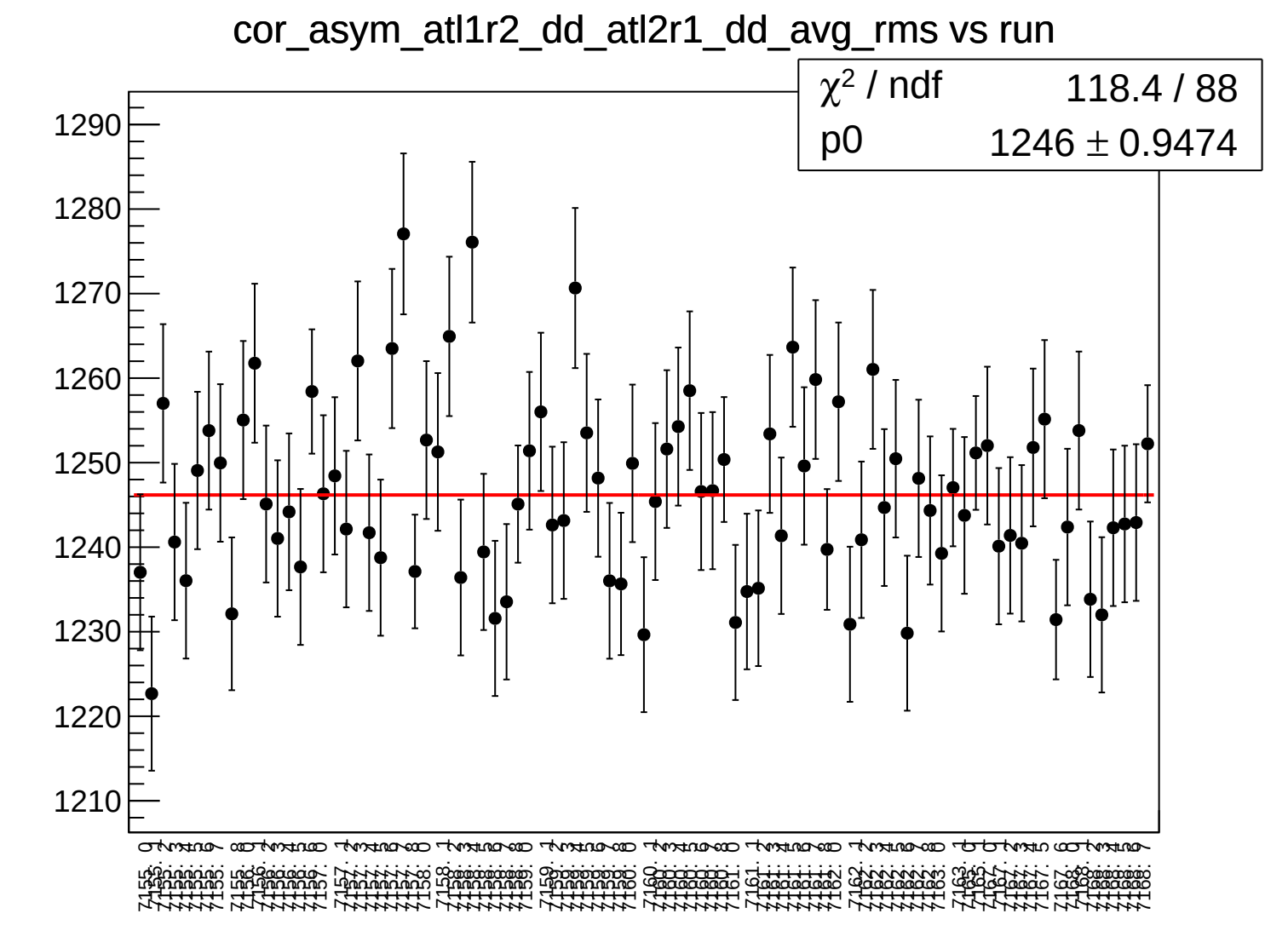

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.1938 ± 371.9
pull
Entries 89
Mean −7.182
Std Dev 0

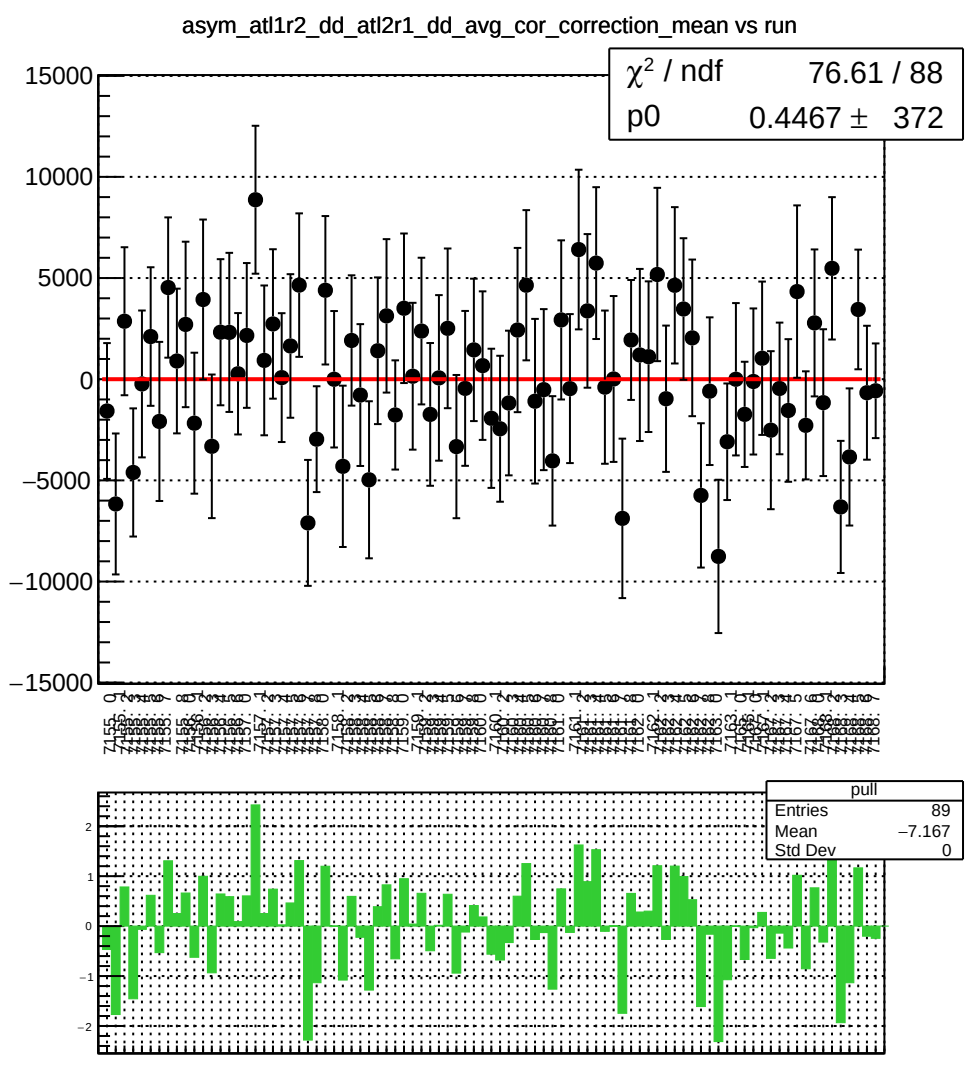

pull1D
Entries 89
Mean 0.0331
Std Dev 0.9272

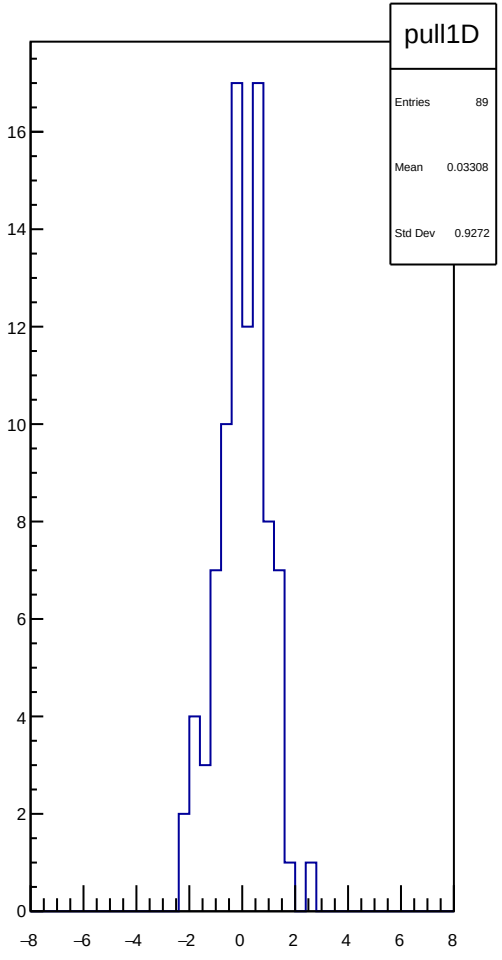

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 9285 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

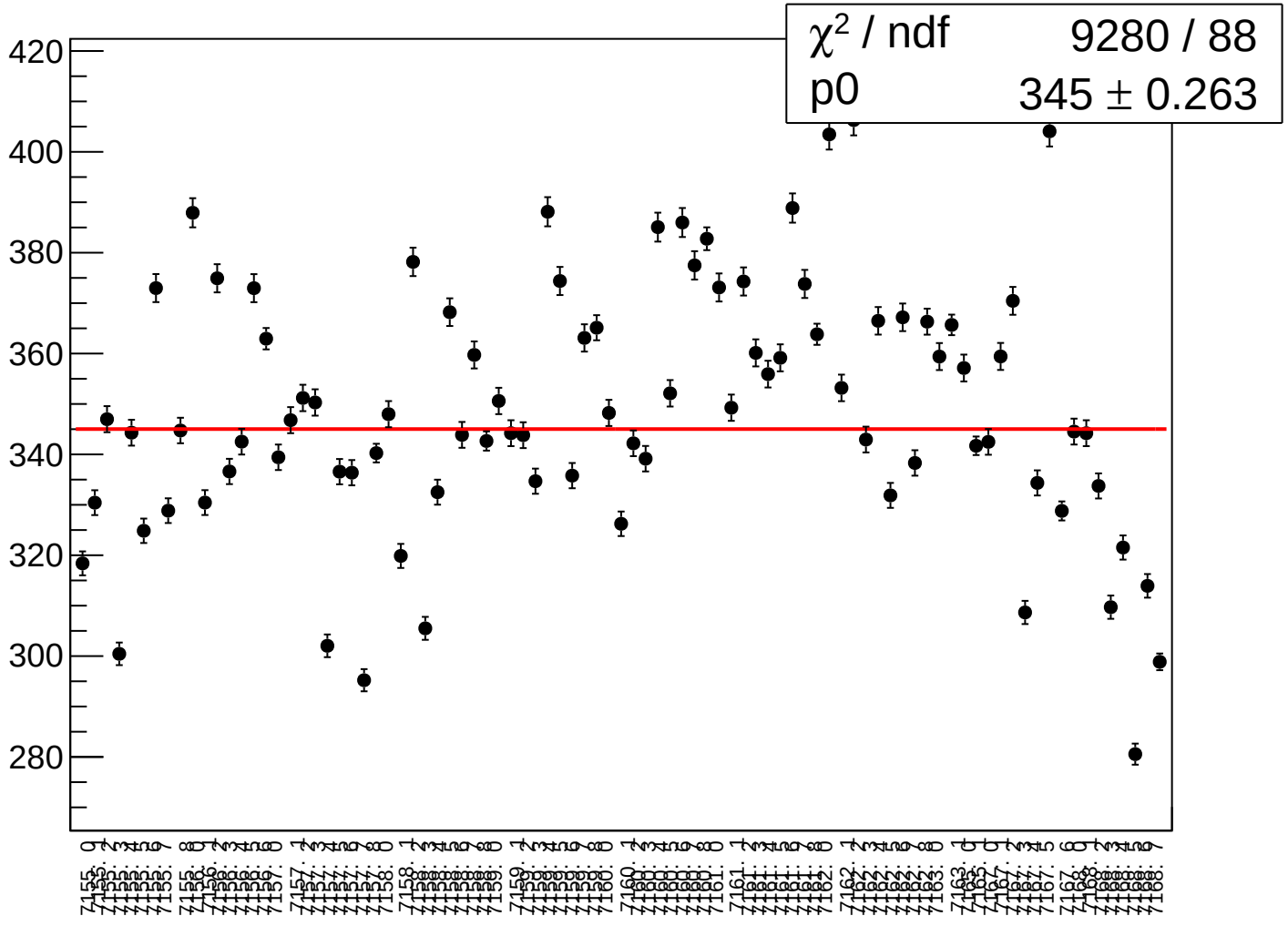

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.37
Std Dev 101.2

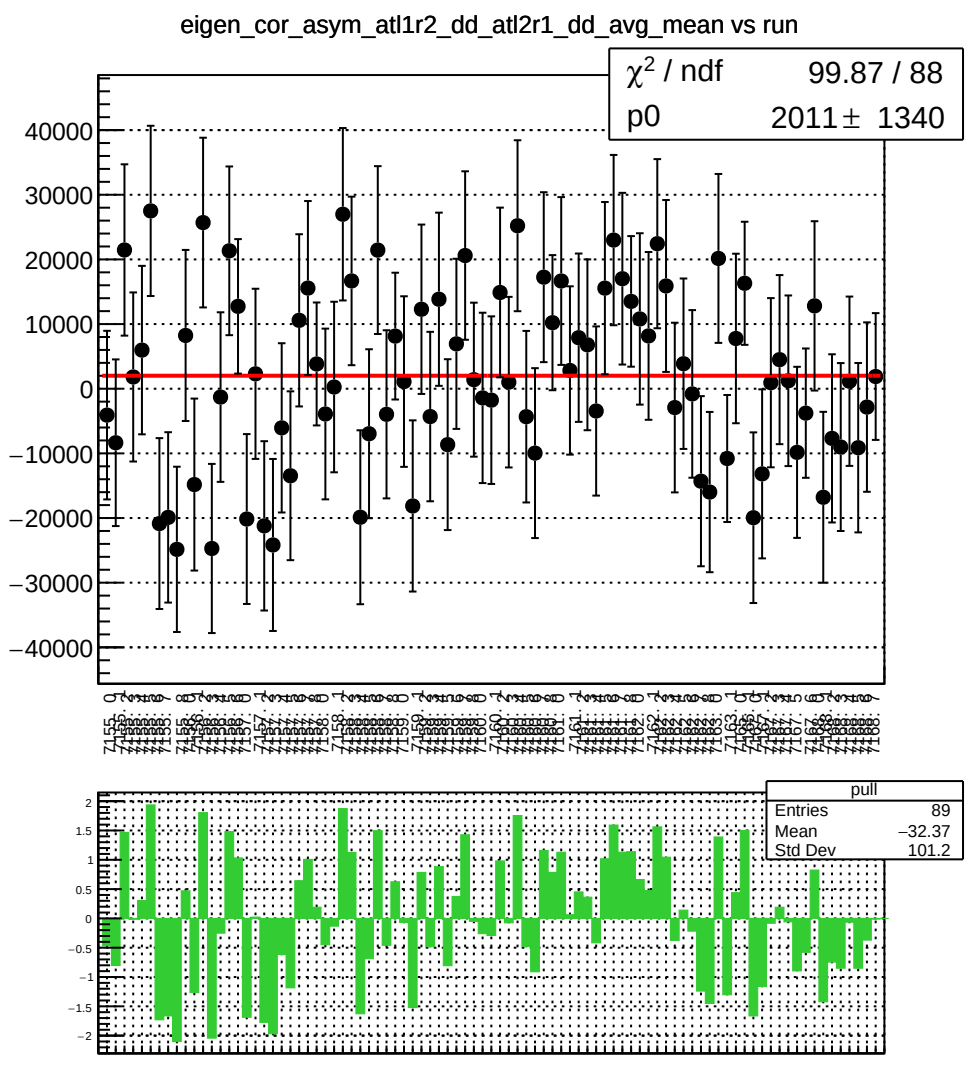

pull1D
Entries 89
Mean −0.009994
Std Dev 1.059

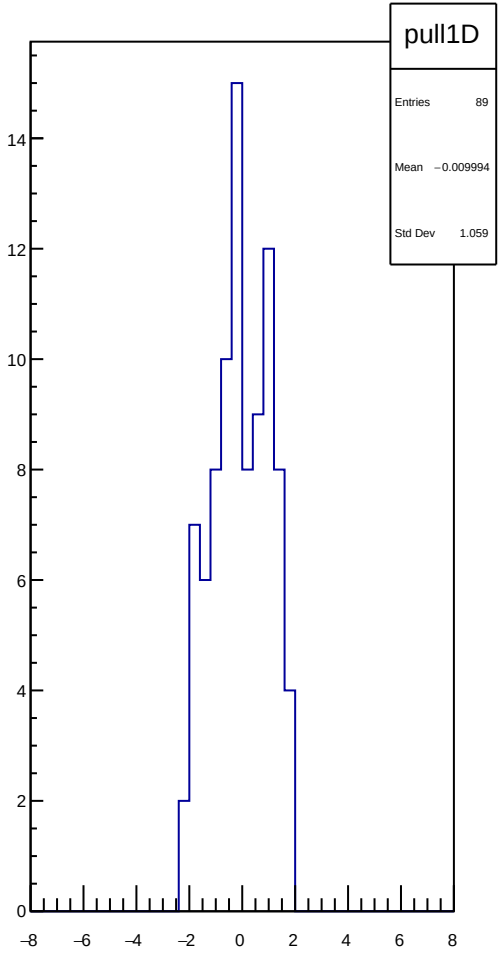

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

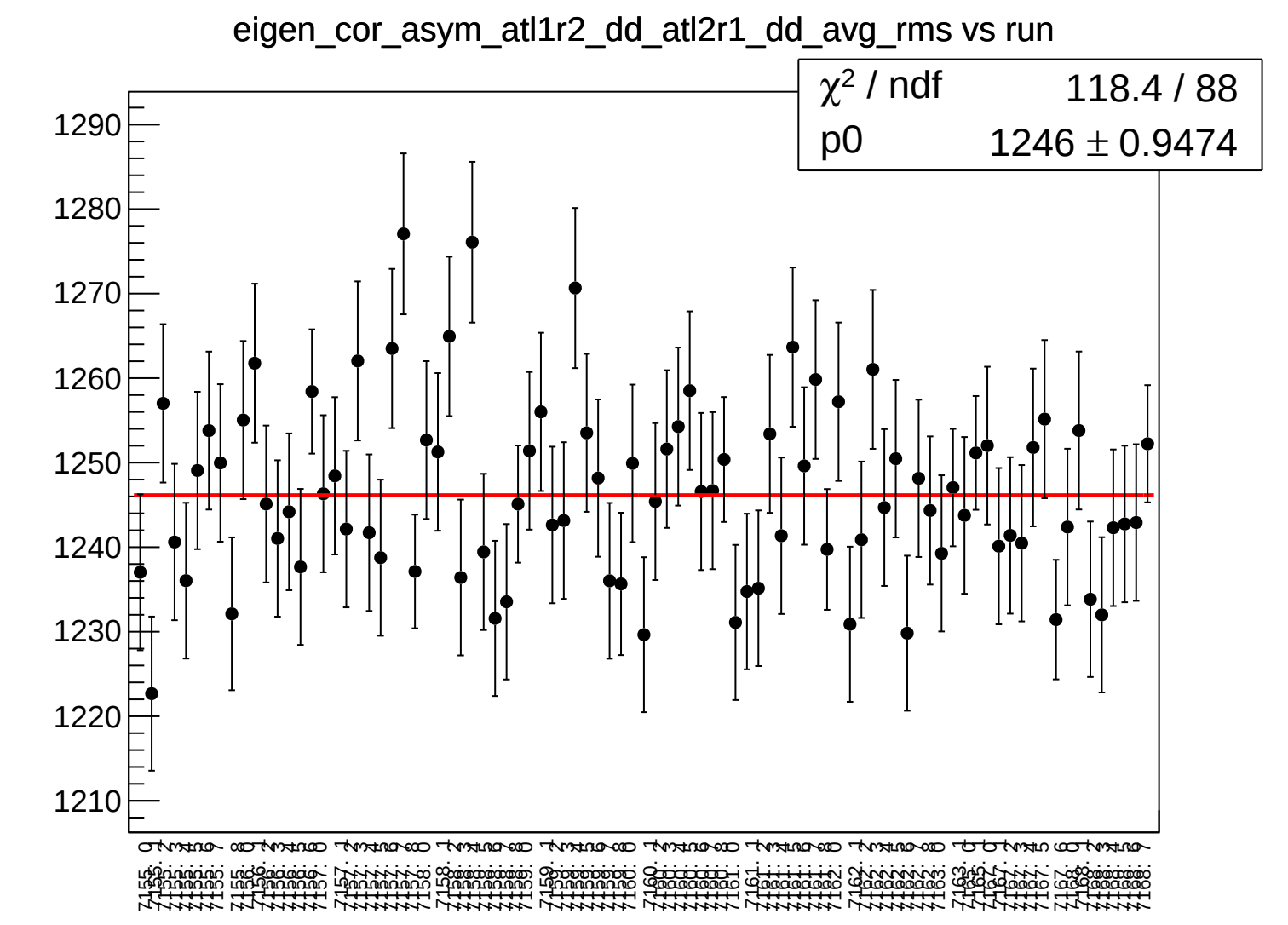

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.4467 ± 372
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −7.167
Std Dev 0
2
1
0
−1
−2

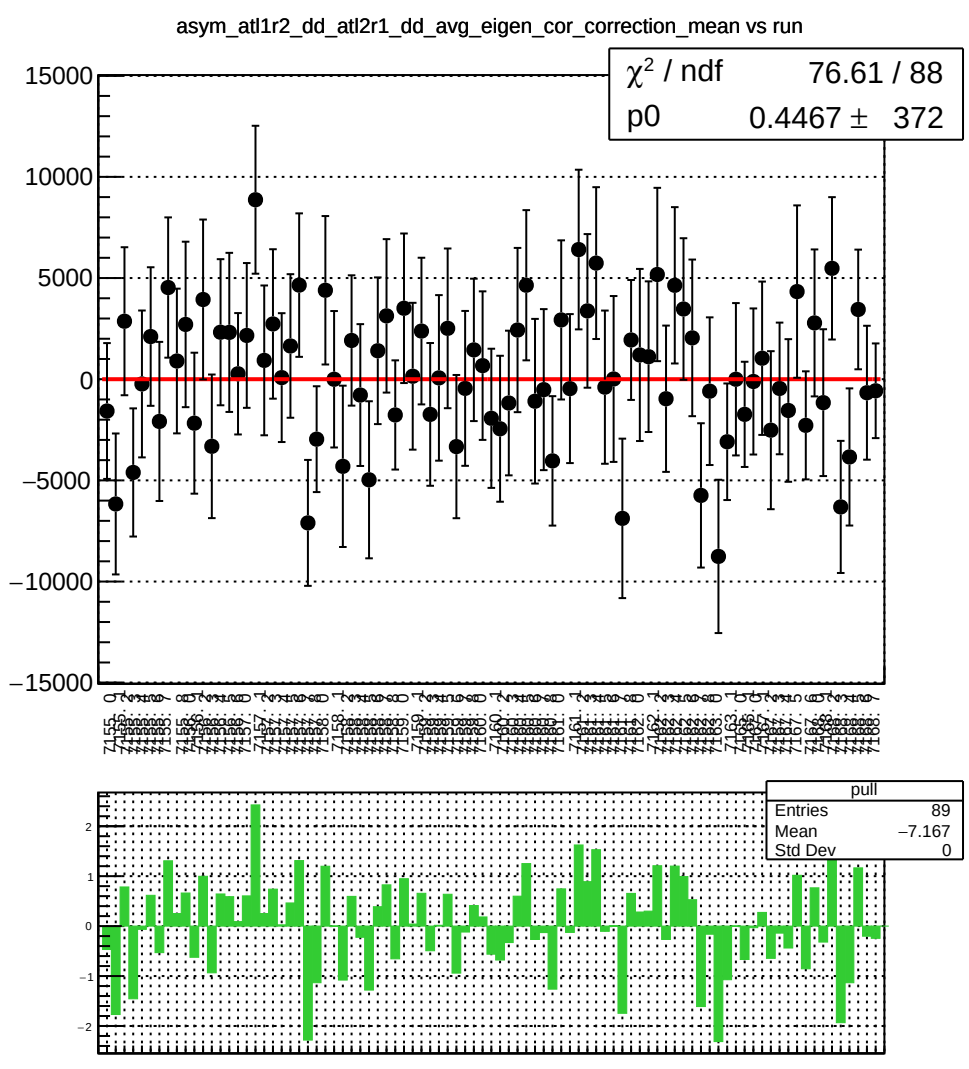

pull1D
Entries 89
Mean 0.03308
Std Dev 0.9272
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

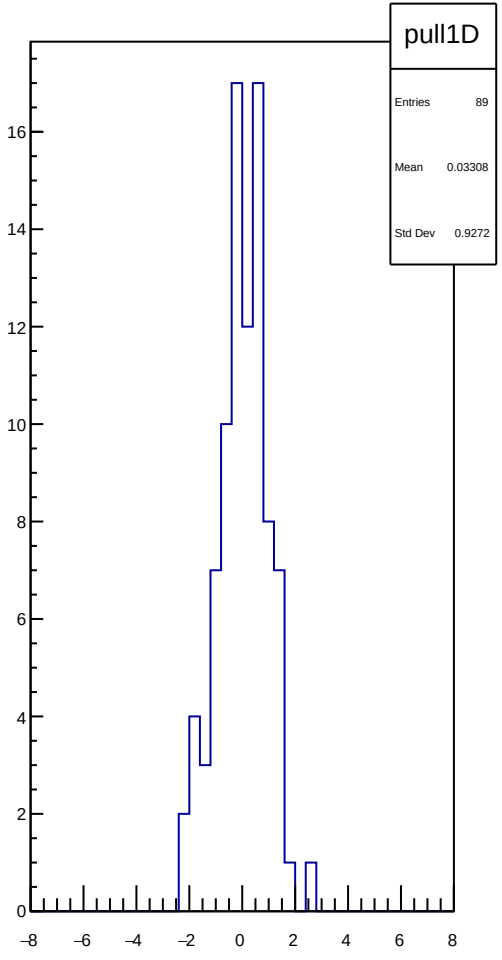

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 9280 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

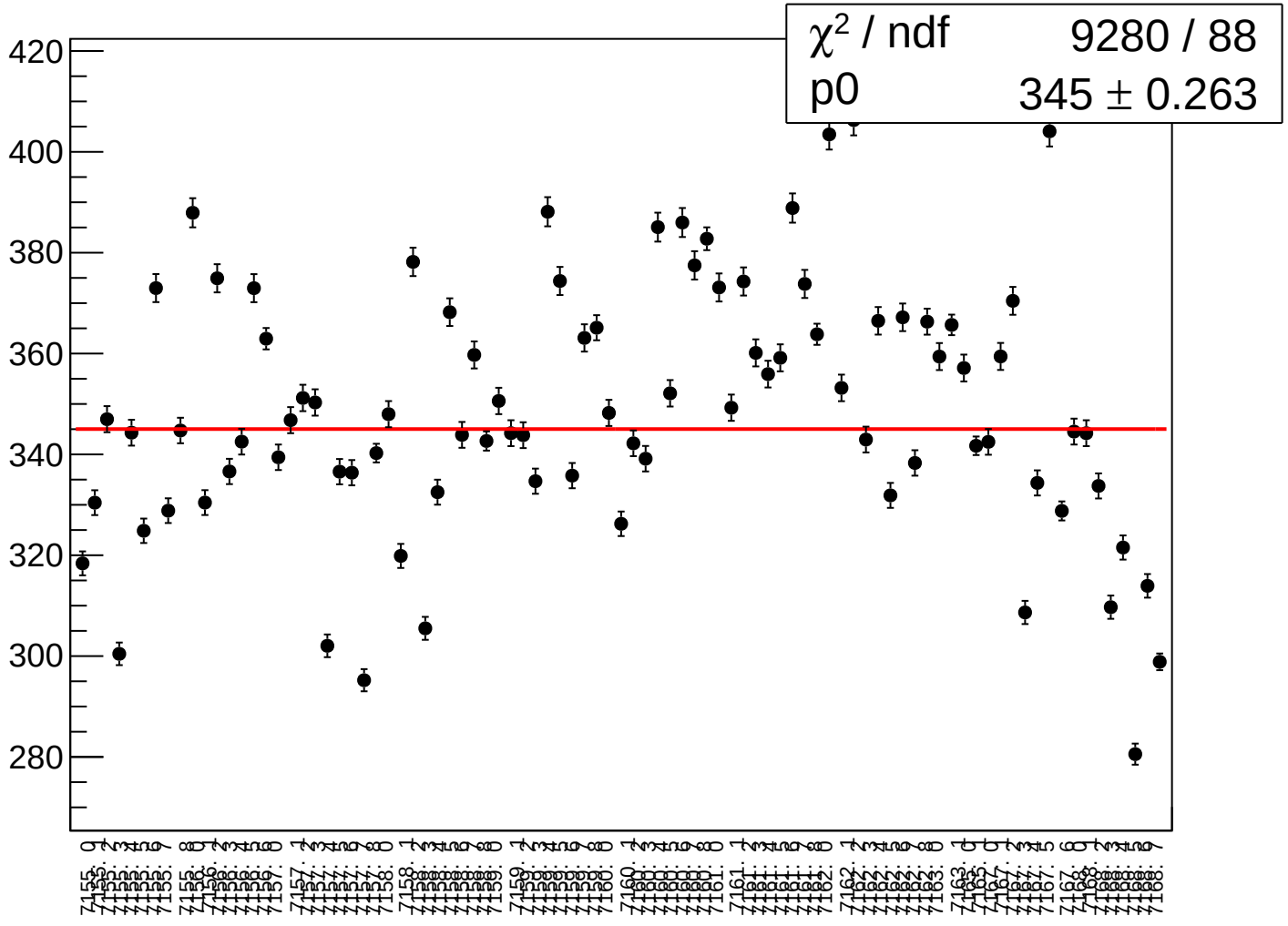

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.87 / 88
p0 2011 ± 1340
pull
Entries 89
Mean −32.37
Std Dev 101.2

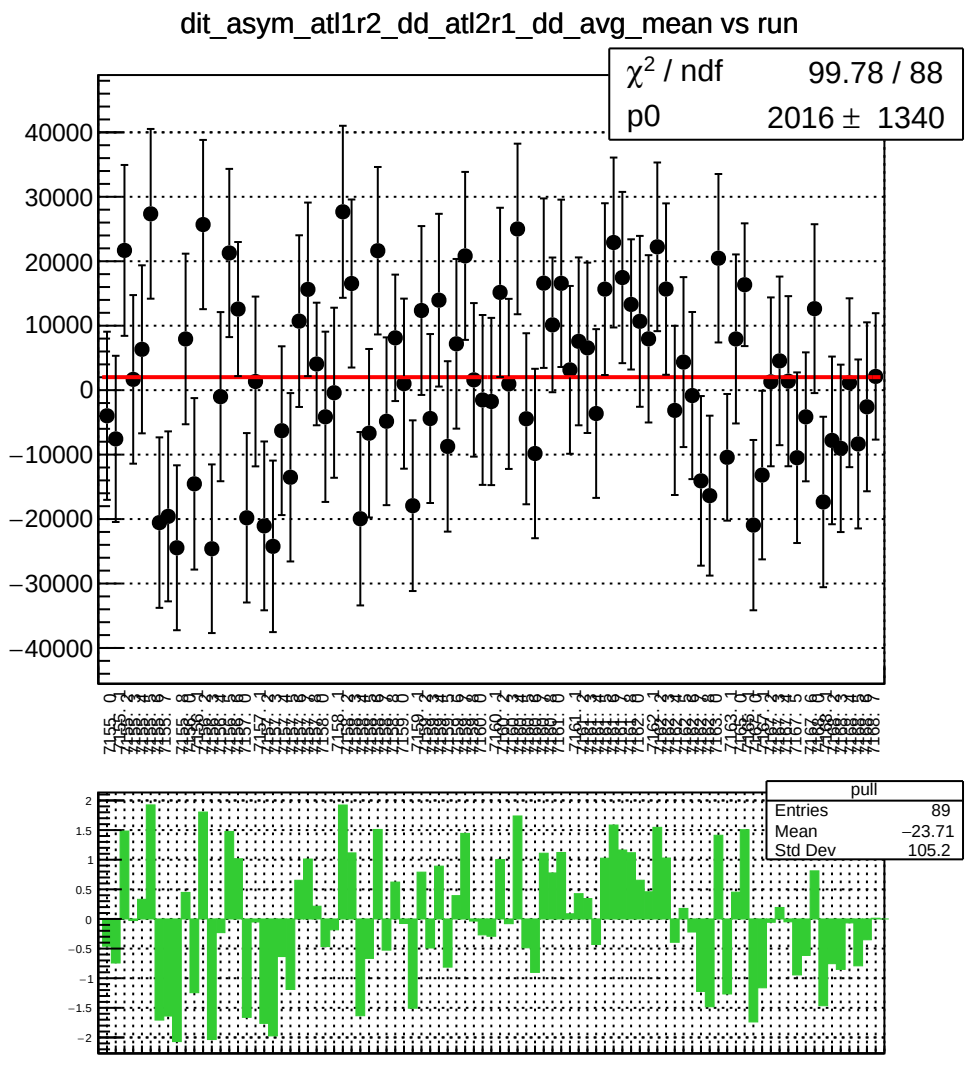

pull1D
Entries 89
Mean −0.009994
Std Dev 1.059

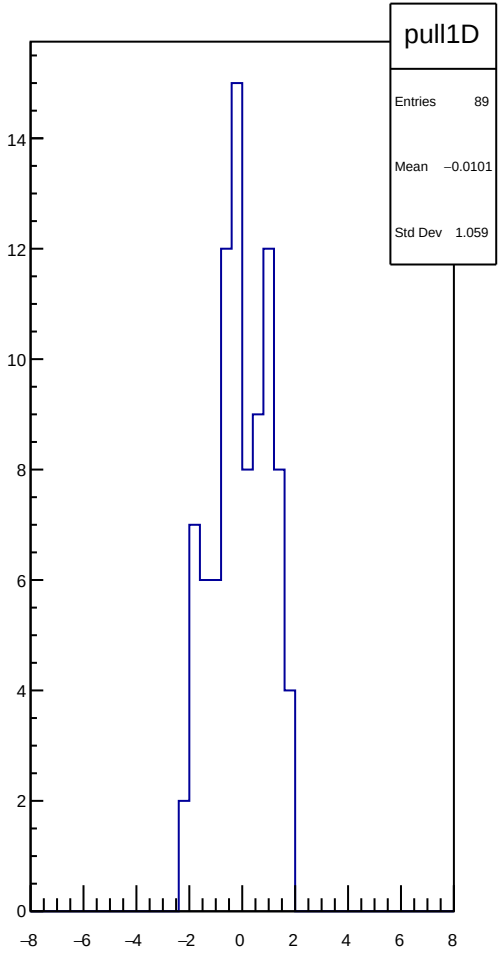

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.4 / 88
p0 1246 ± 0.9474
1290
1280
1270
1260
1250
1240
1230
1220
1210

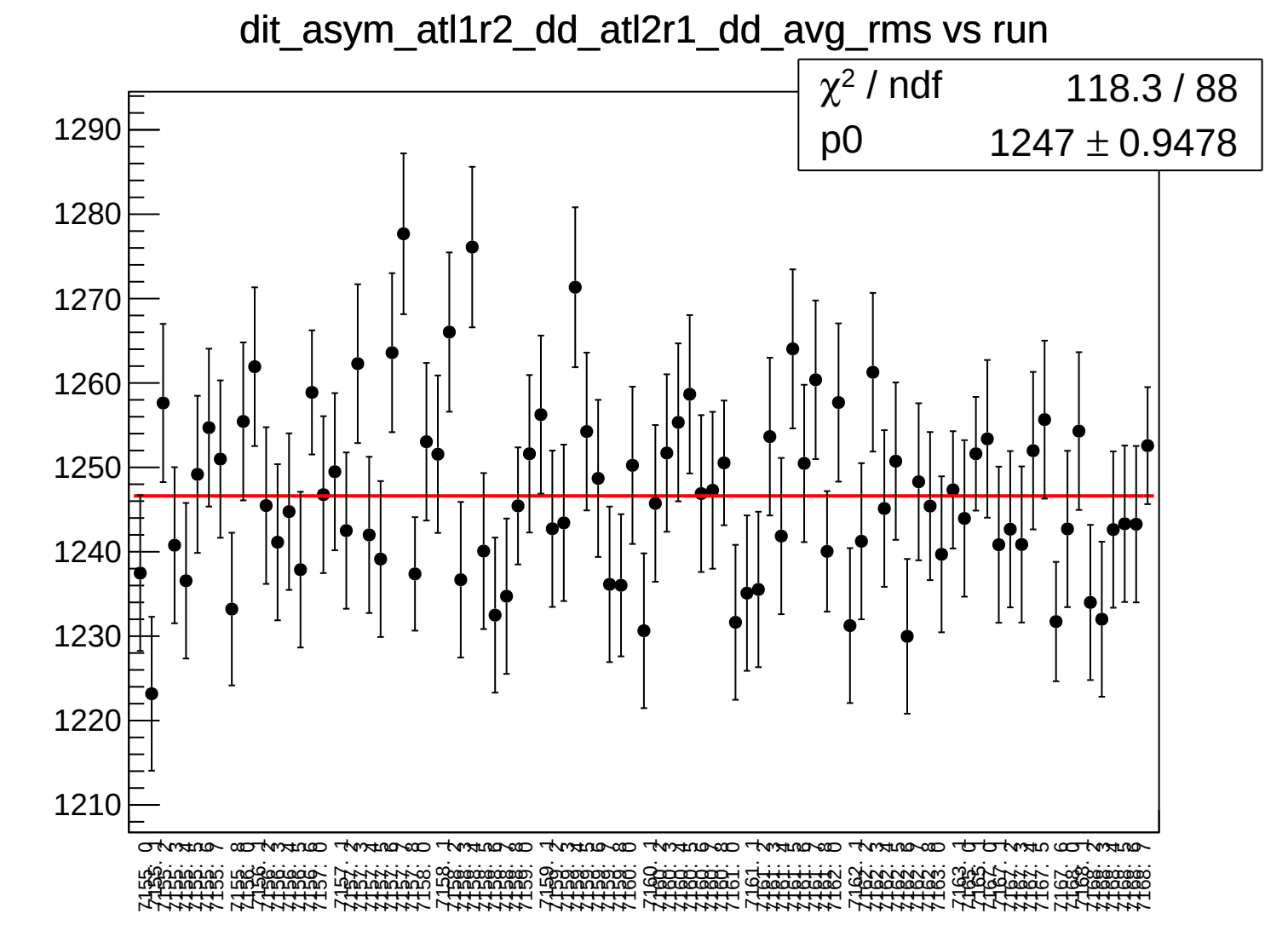

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 76.61 / 88
p0 0.4467 ± 372
pull
Entries 89
Mean −7.167
Std Dev 0

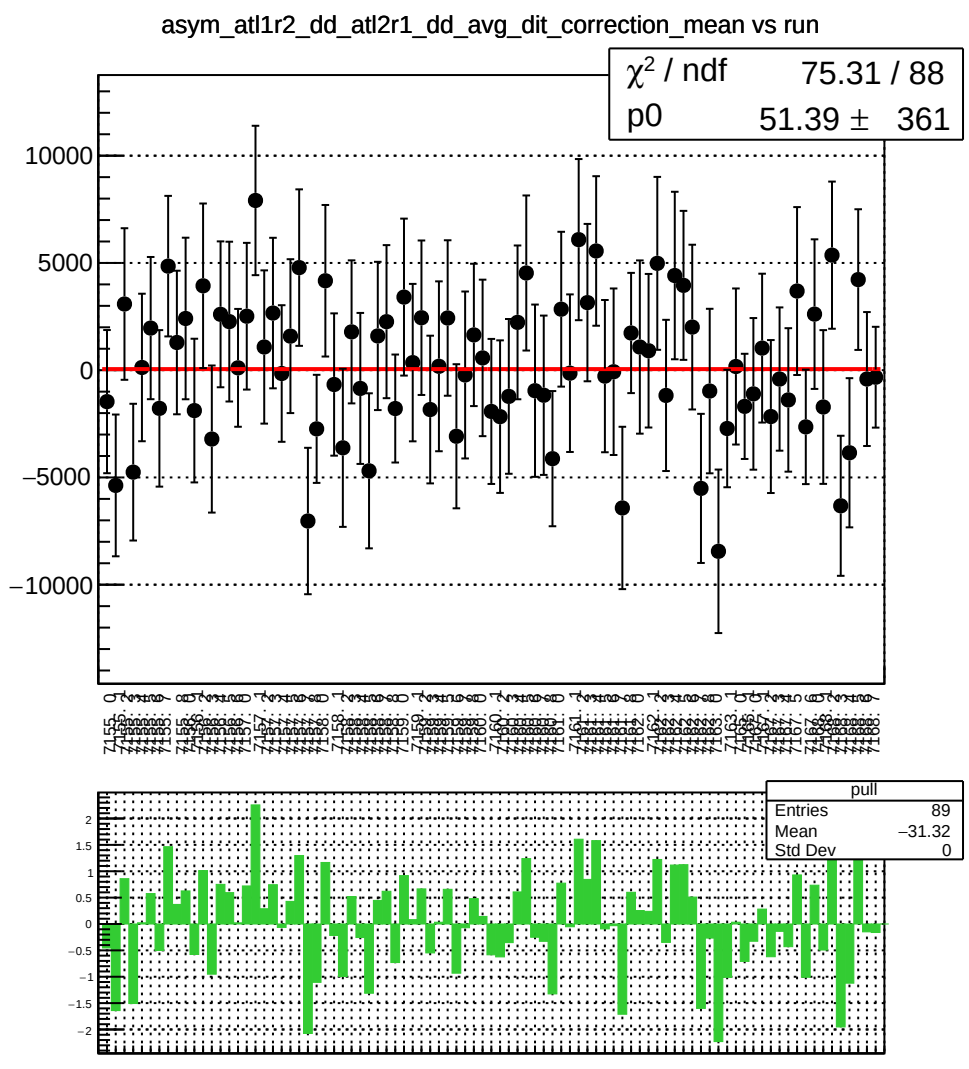

pull1D
Entries 89
Mean 0.03308
Std Dev 0.9272

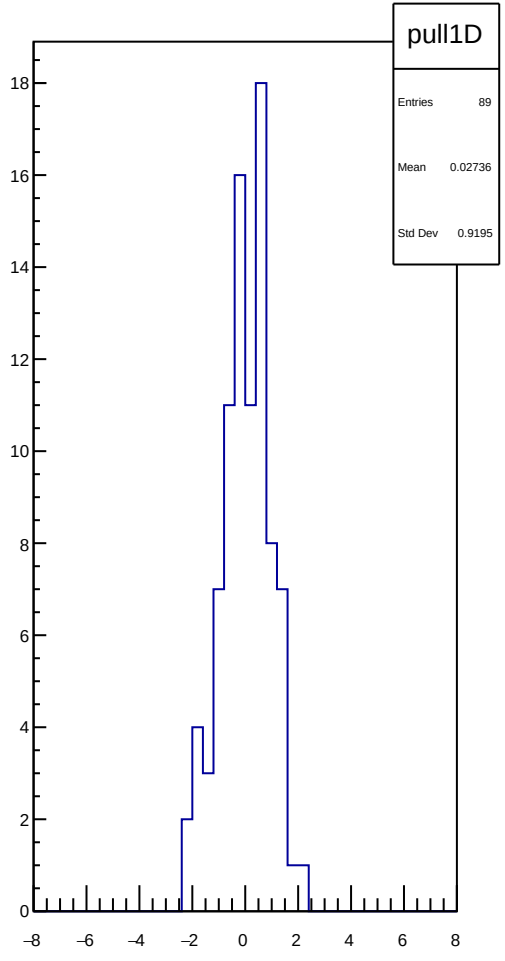

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 9280 / 88
p0 345 ± 0.263
420
400
380
360
340
320
300
280

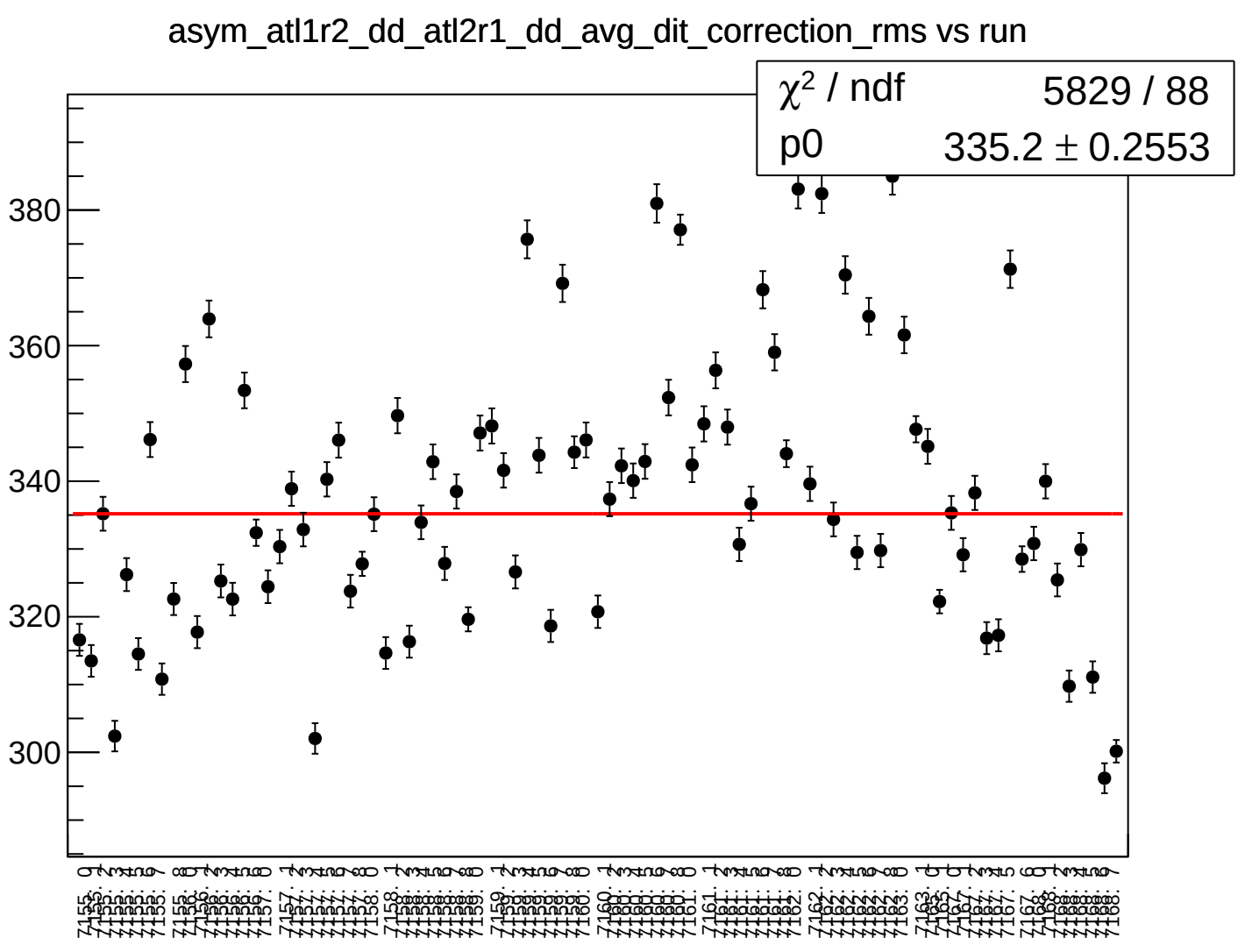

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.78 / 88
p0 2016 ± 1340
pull
Entries 89
Mean −23.71
Std Dev 105.2

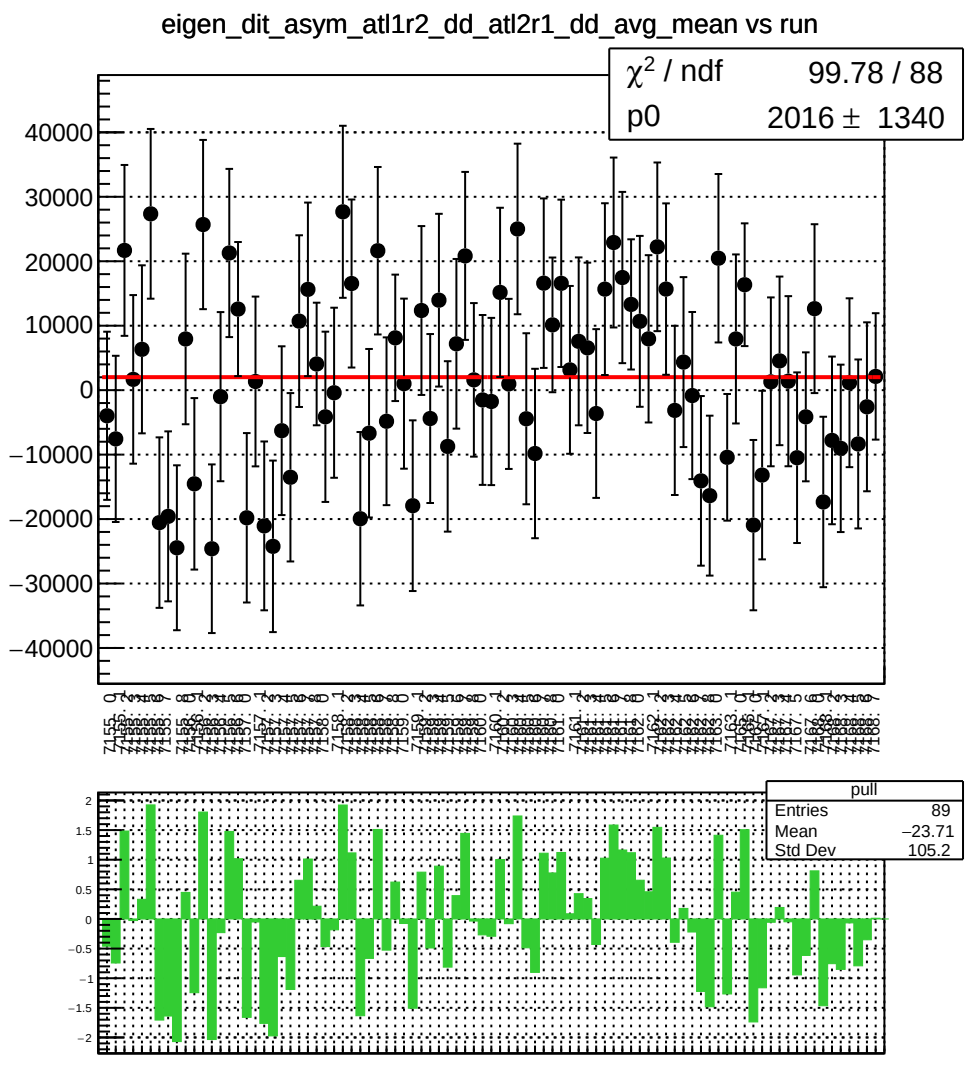

pull1D
Entries 89
Mean −0.0101
Std Dev 1.059

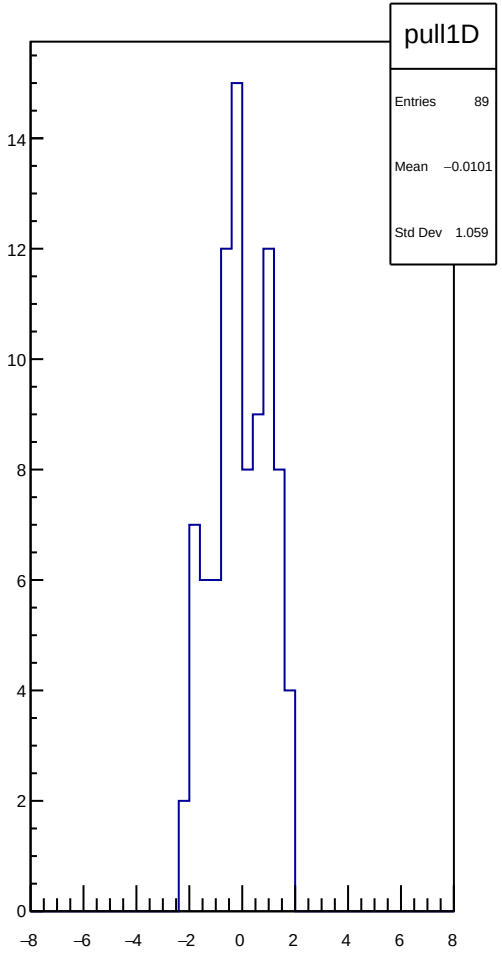

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.3 / 88
p0 1247 ± 0.9478
1290
1280
1270
1260
1250
1240
1230
1220
1210

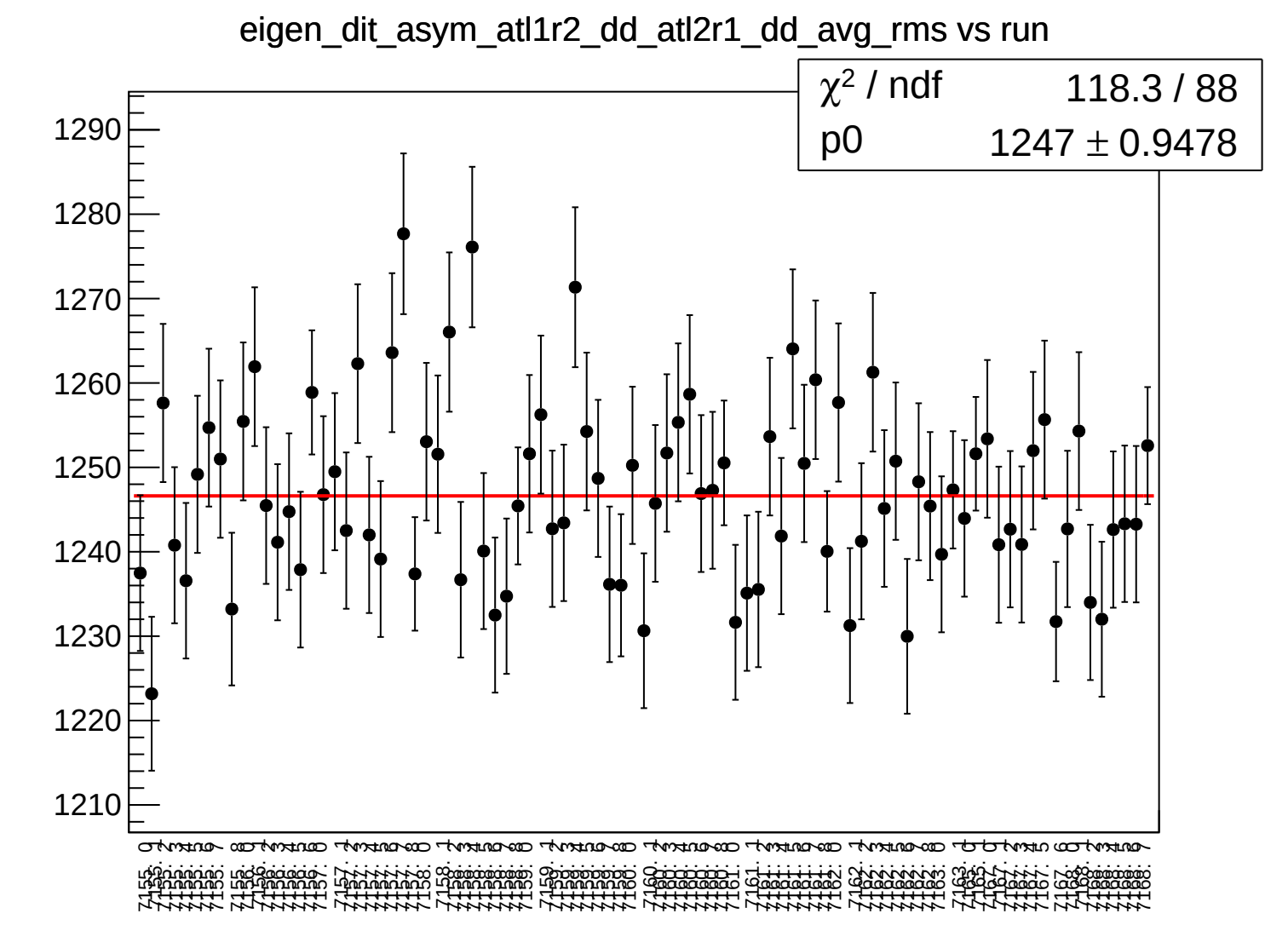

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 75.31 / 88
p0 51.39 ± 361
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −31.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

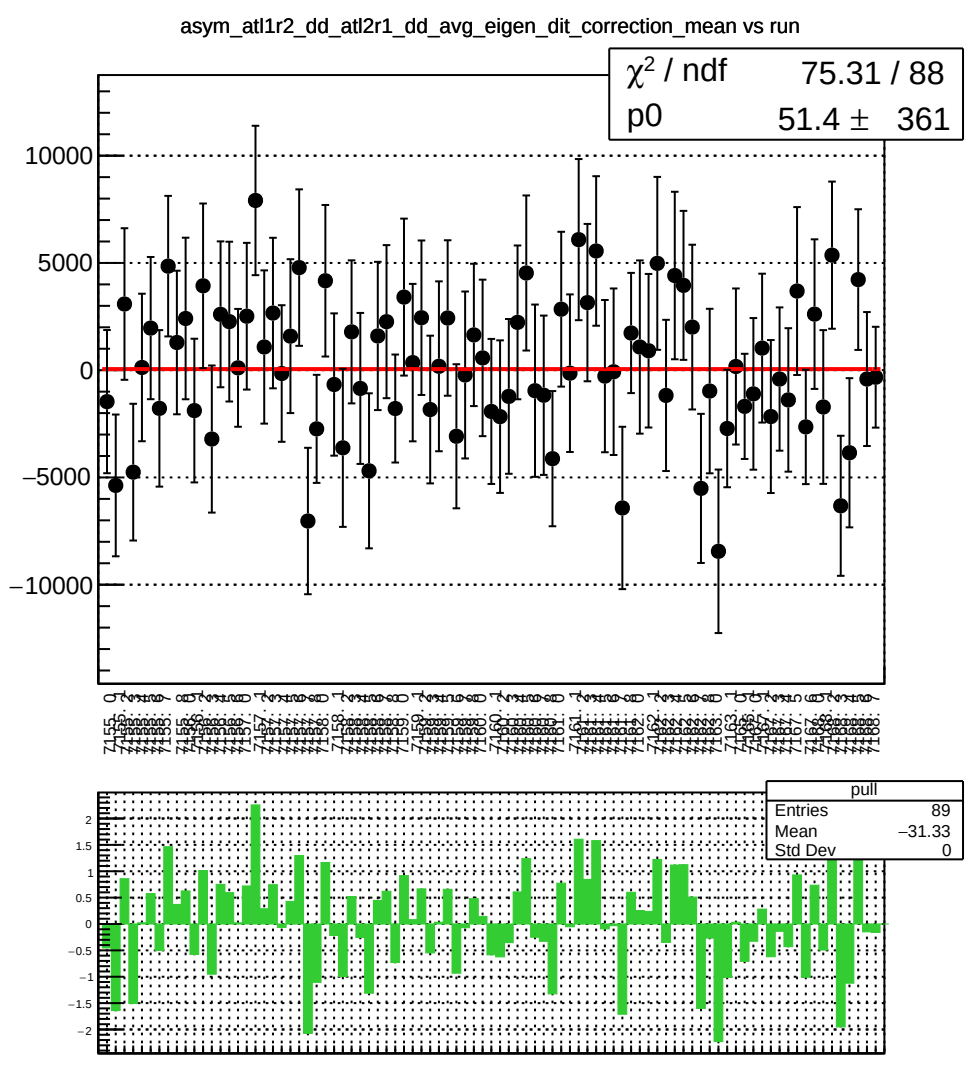

pull1D
Entries 89
Mean 0.02736
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

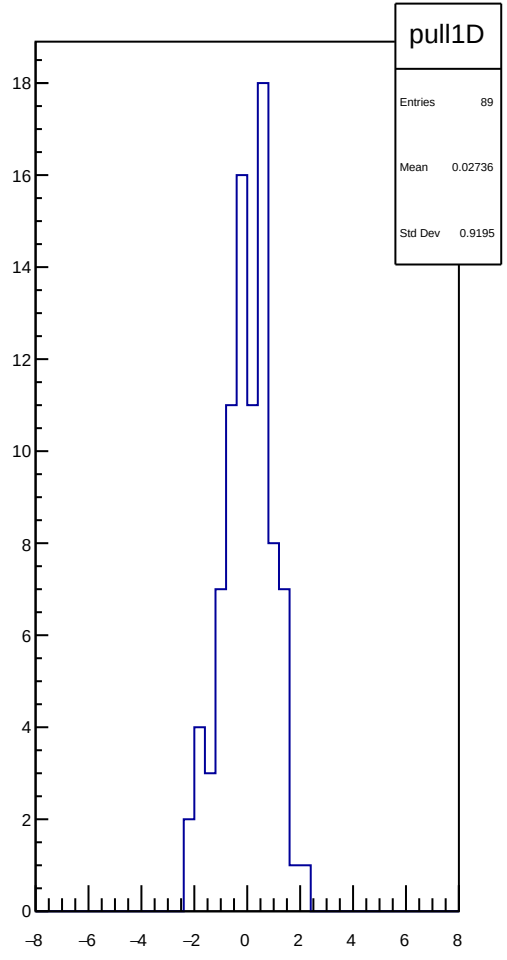

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 5829 / 88
p0 335.2 ± 0.2553
380
360
340
320
300

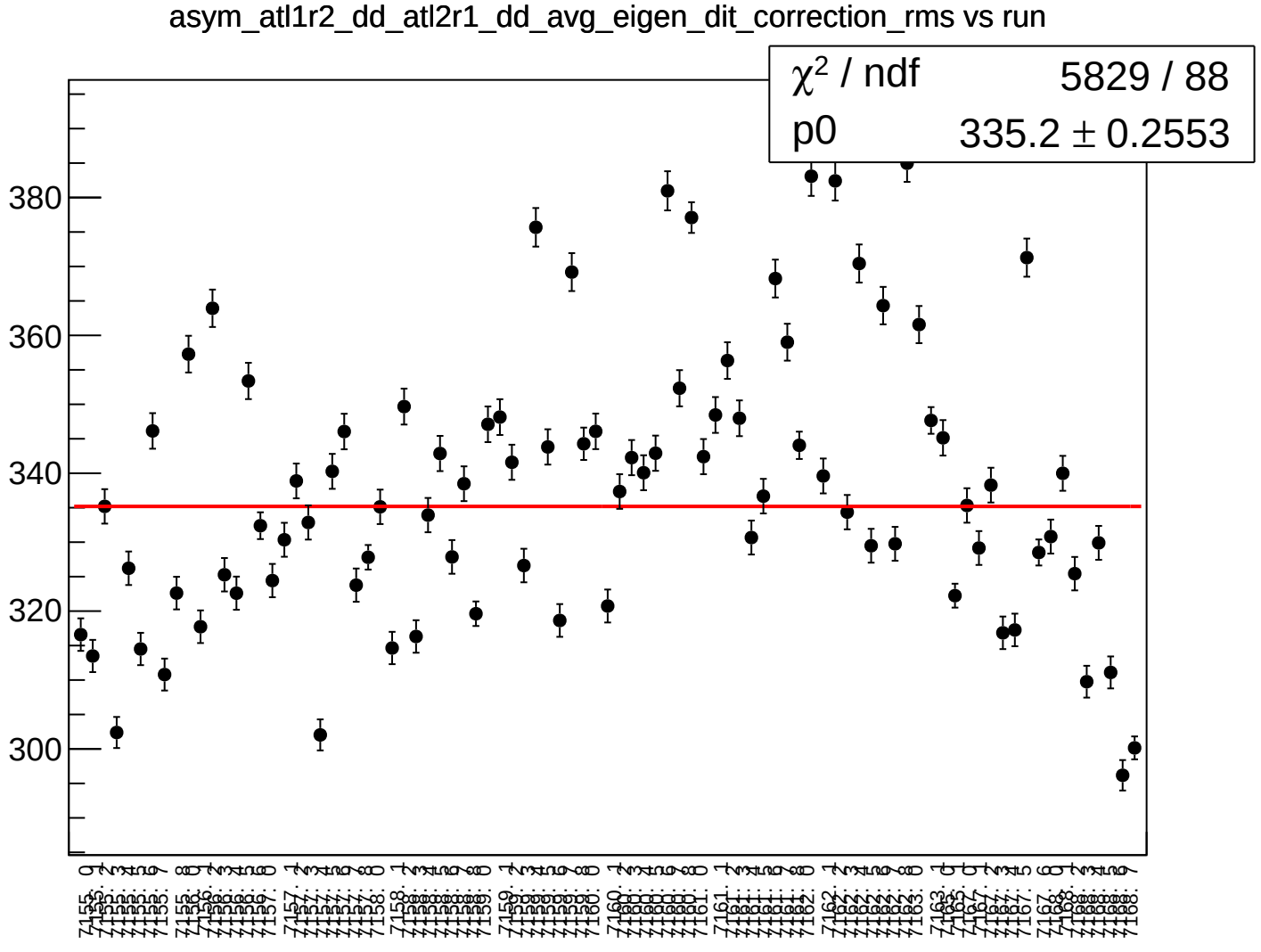

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 99.78 / 88
p0 2016 ± 1340
pull
Entries 89
Mean −23.71
Std Dev 105.2

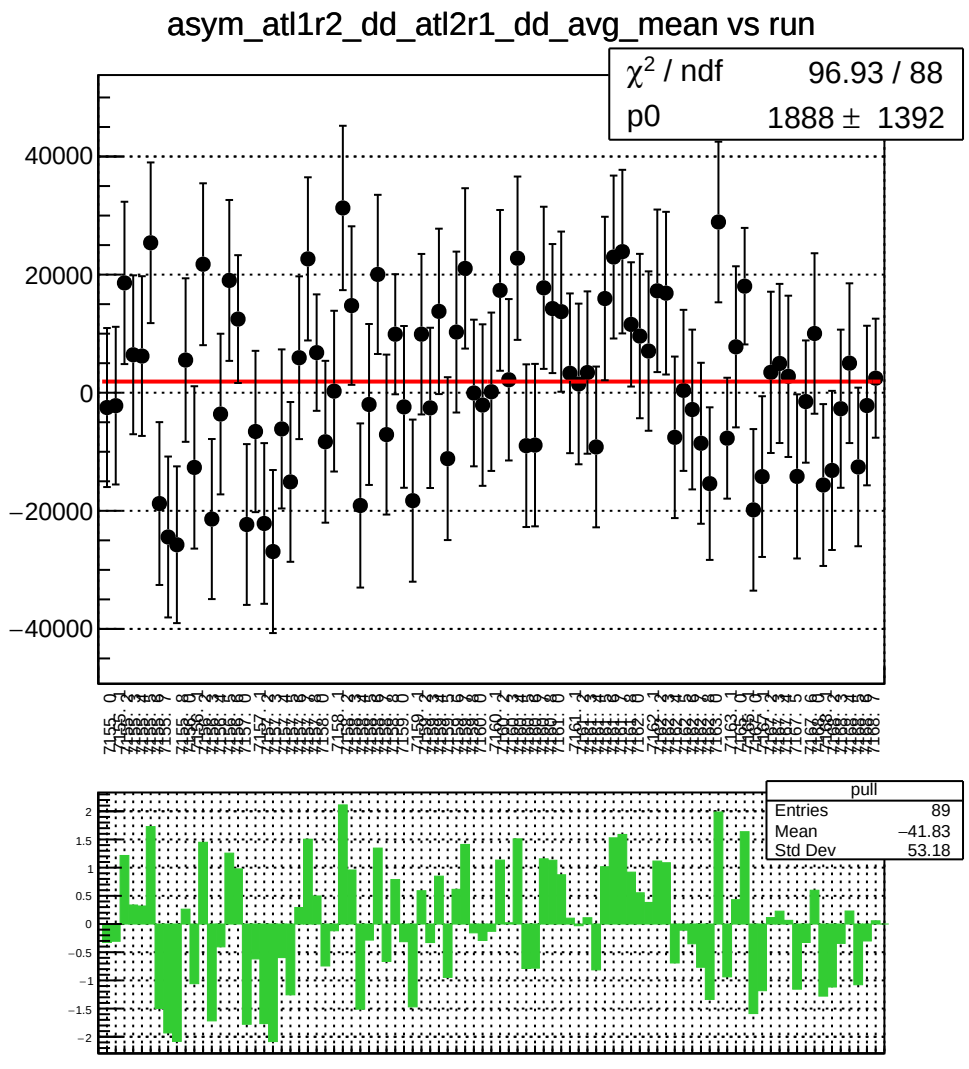

pull1D
Entries 89
Mean −0.0101
Std Dev 1.059

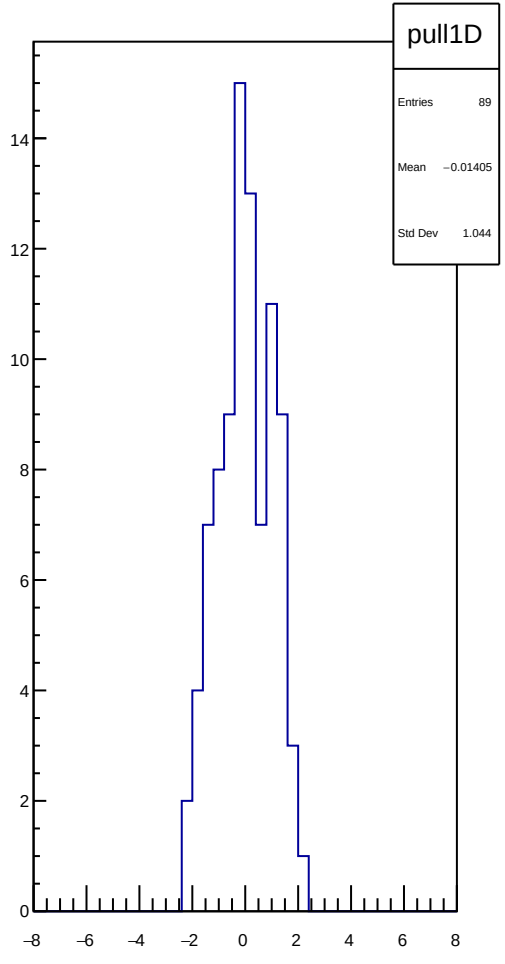

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 118.3 / 88
p0 1247 ± 0.9478
1290
1280
1270
1260
1250
1240
1230
1220
1210

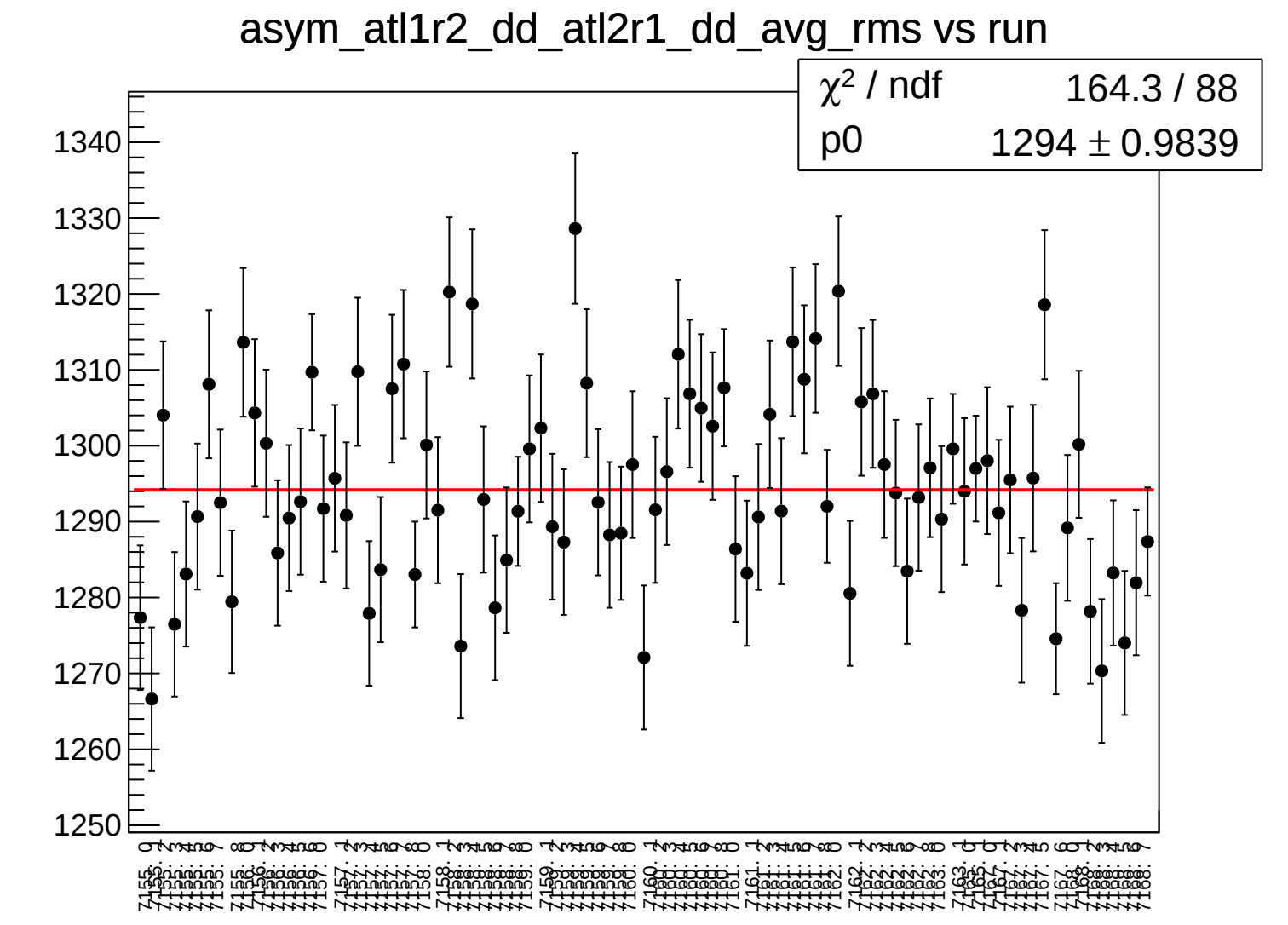

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 75.31 / 88
p0 51.4 ± 361
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −31.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

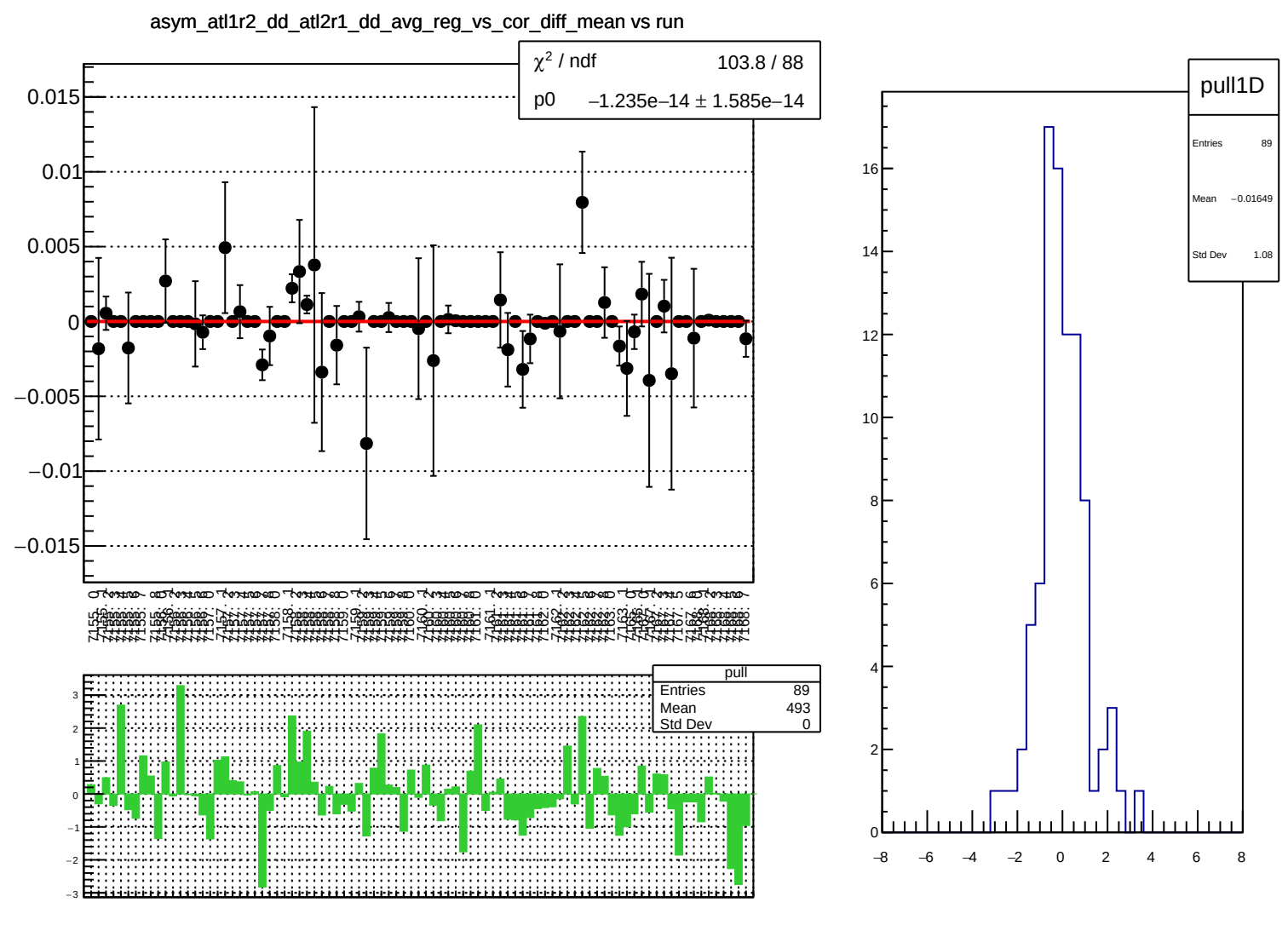

pull1D
Entries 89
Mean 0.02736
Std Dev 0.9195
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

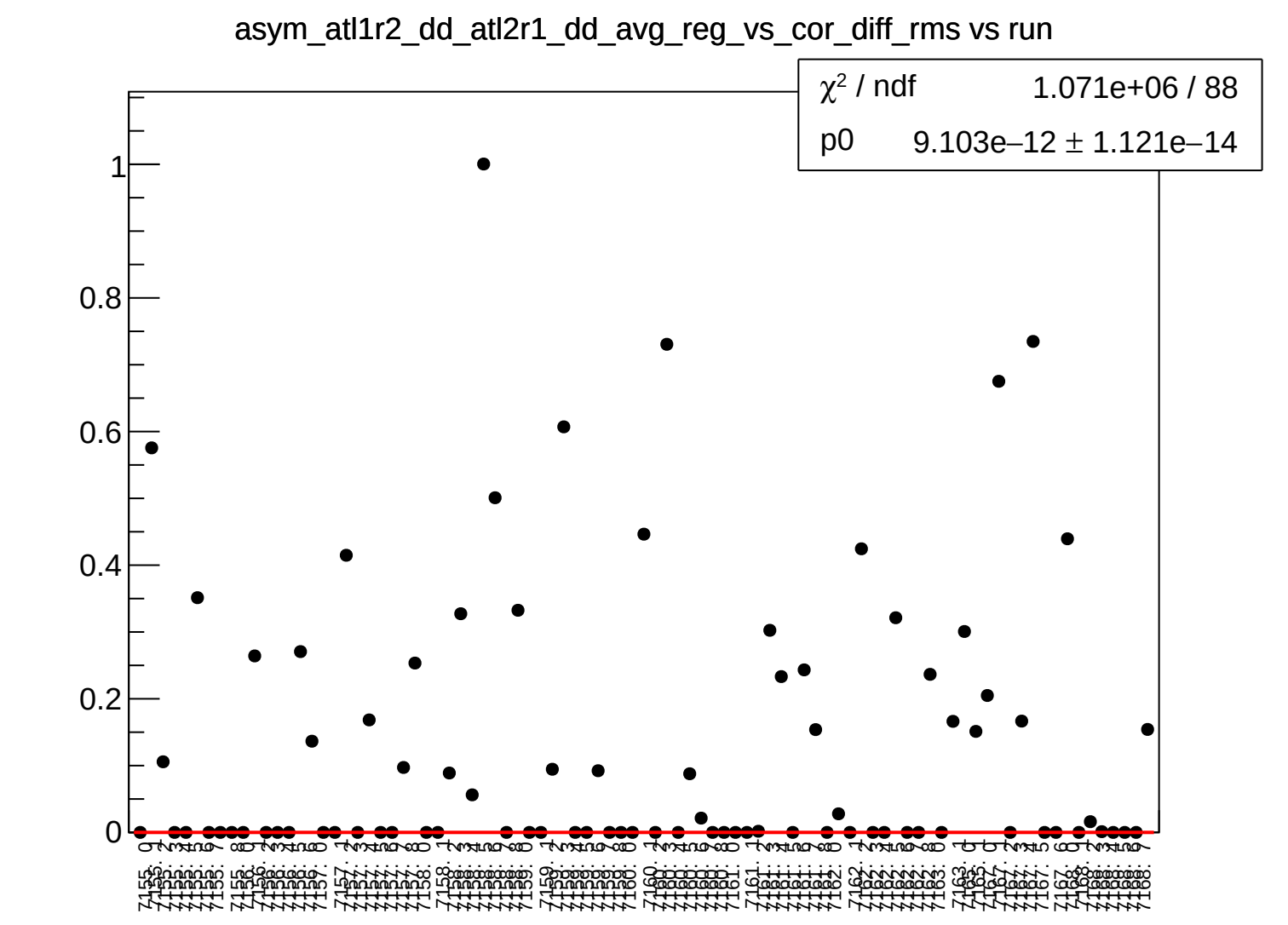

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5829 / 88
p0 335.2 ± 0.2553
380
360
340
320
300

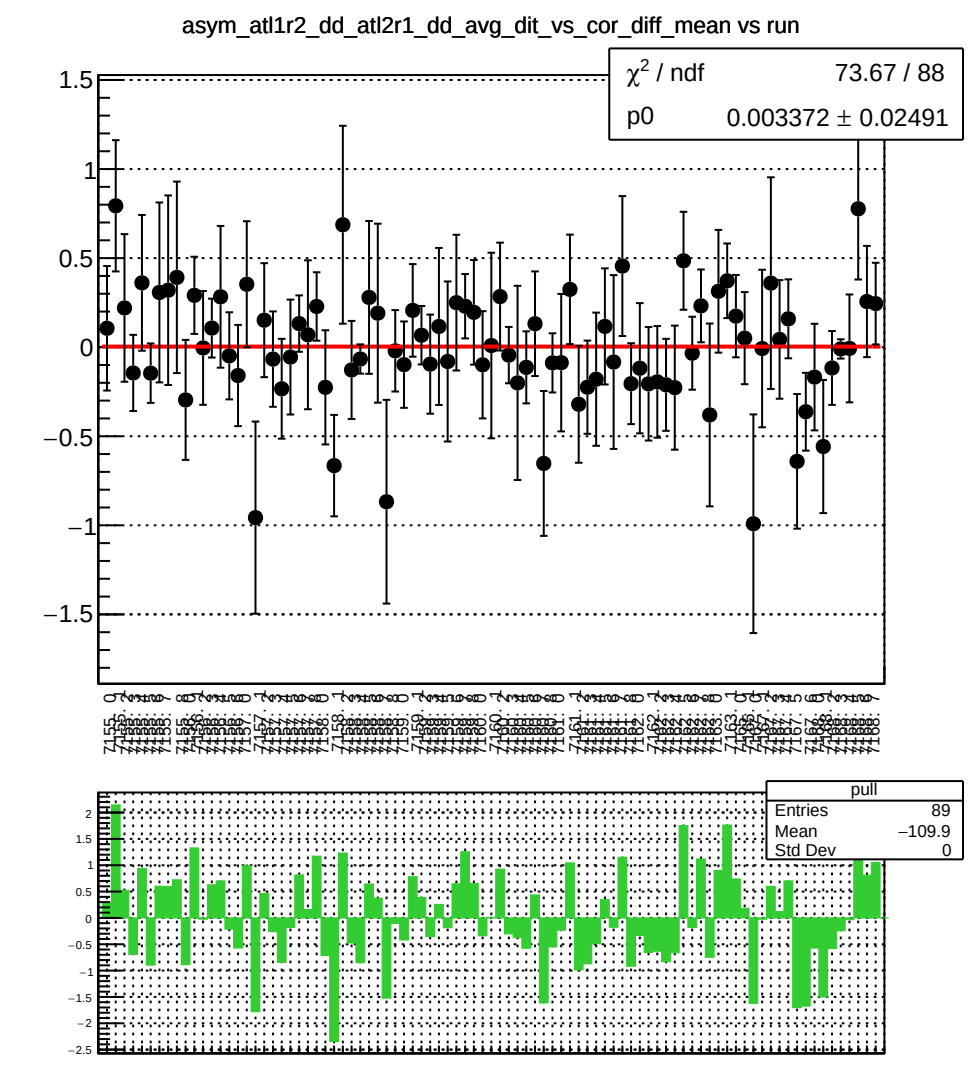

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 96.93 / 88
p0 1888 ± 1392
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −41.83
Std Dev 53.18
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

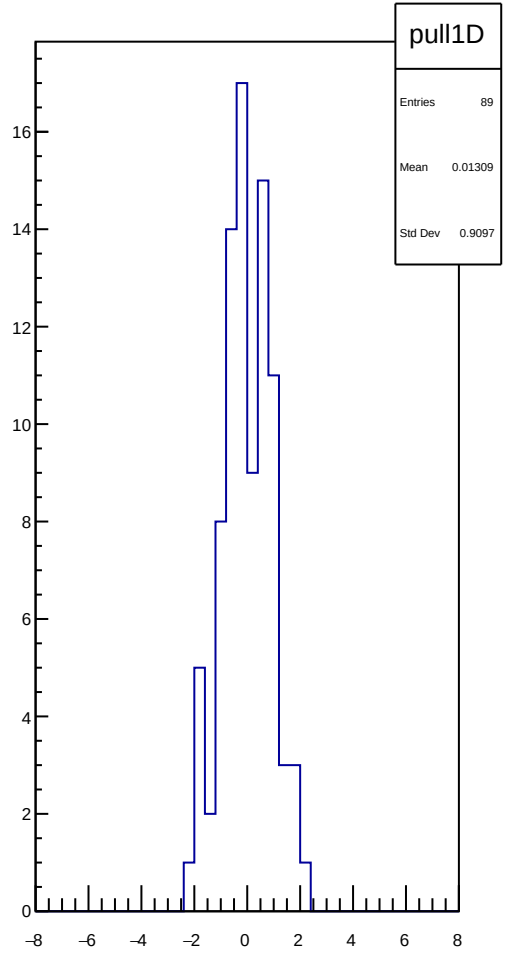

pull1D
Entries 89
Mean −0.01405
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

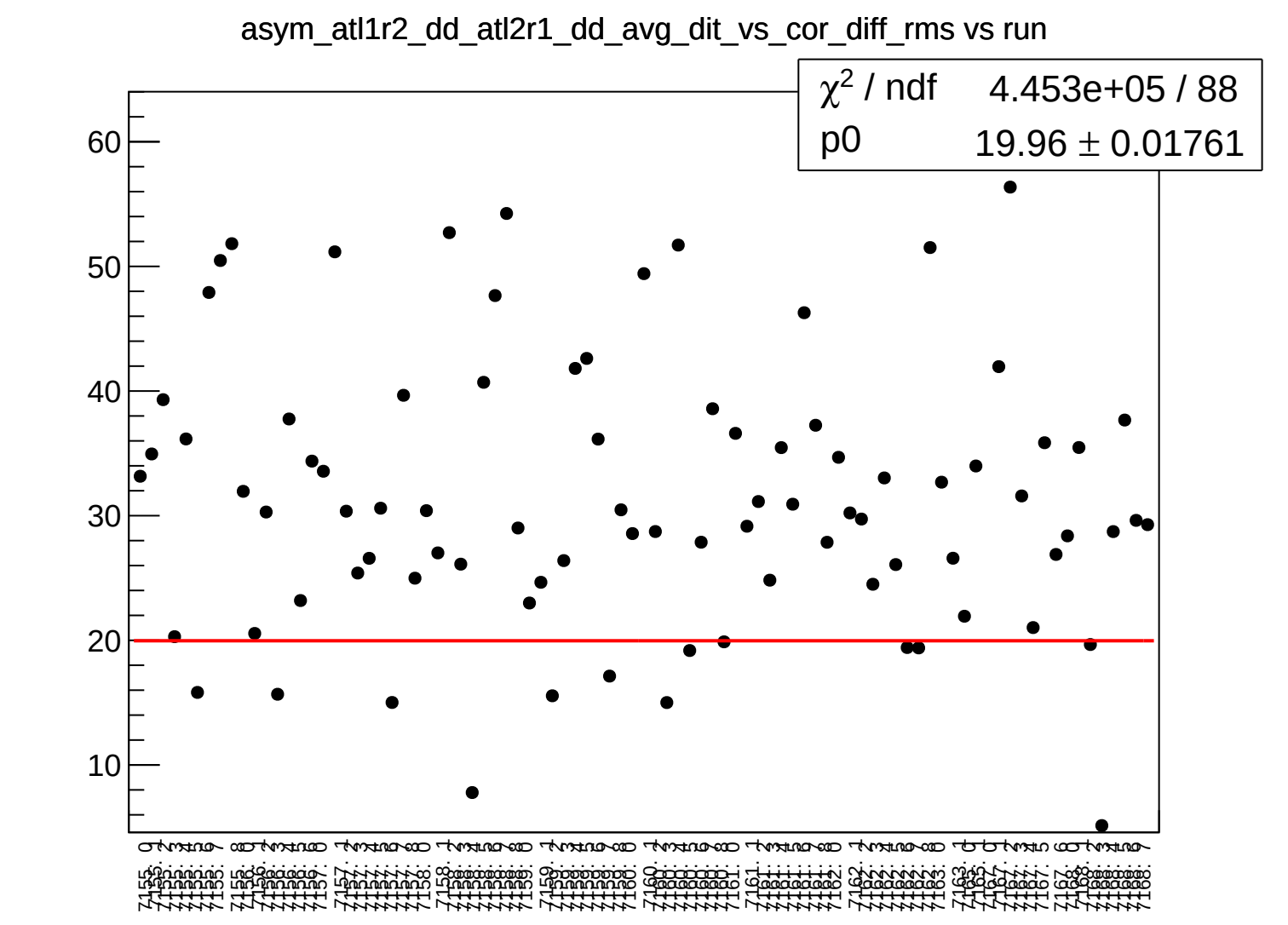

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 164.3 / 88
p0 1294 ± 0.9839
1340
1330
1320
1310
1300
1290
1280
1270
1260
1250

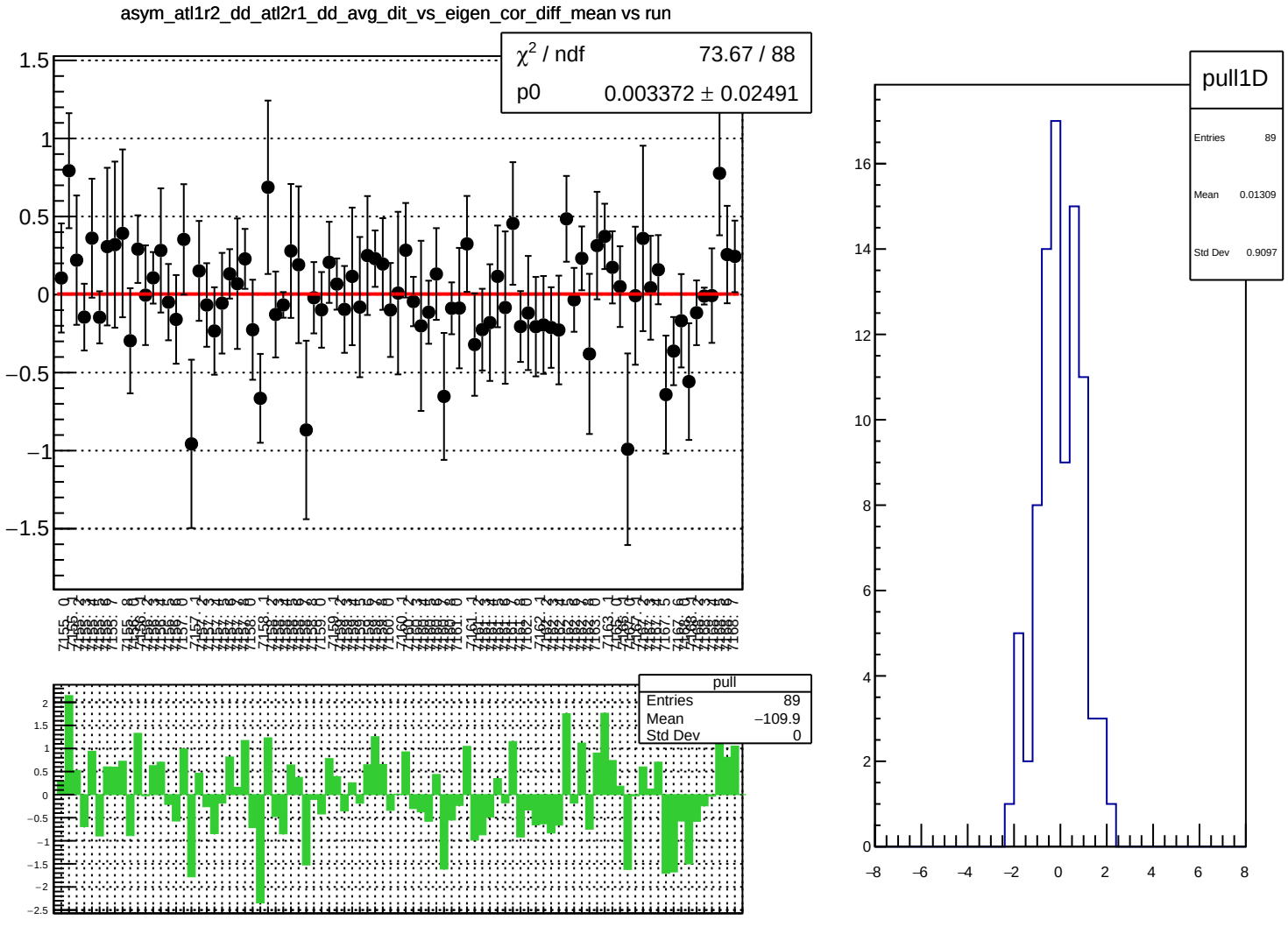

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.8 / 88
p0 −1.235e−14 ± 1.585e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 493
Std Dev 0
pull1D
Entries 89
Mean −0.01649
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

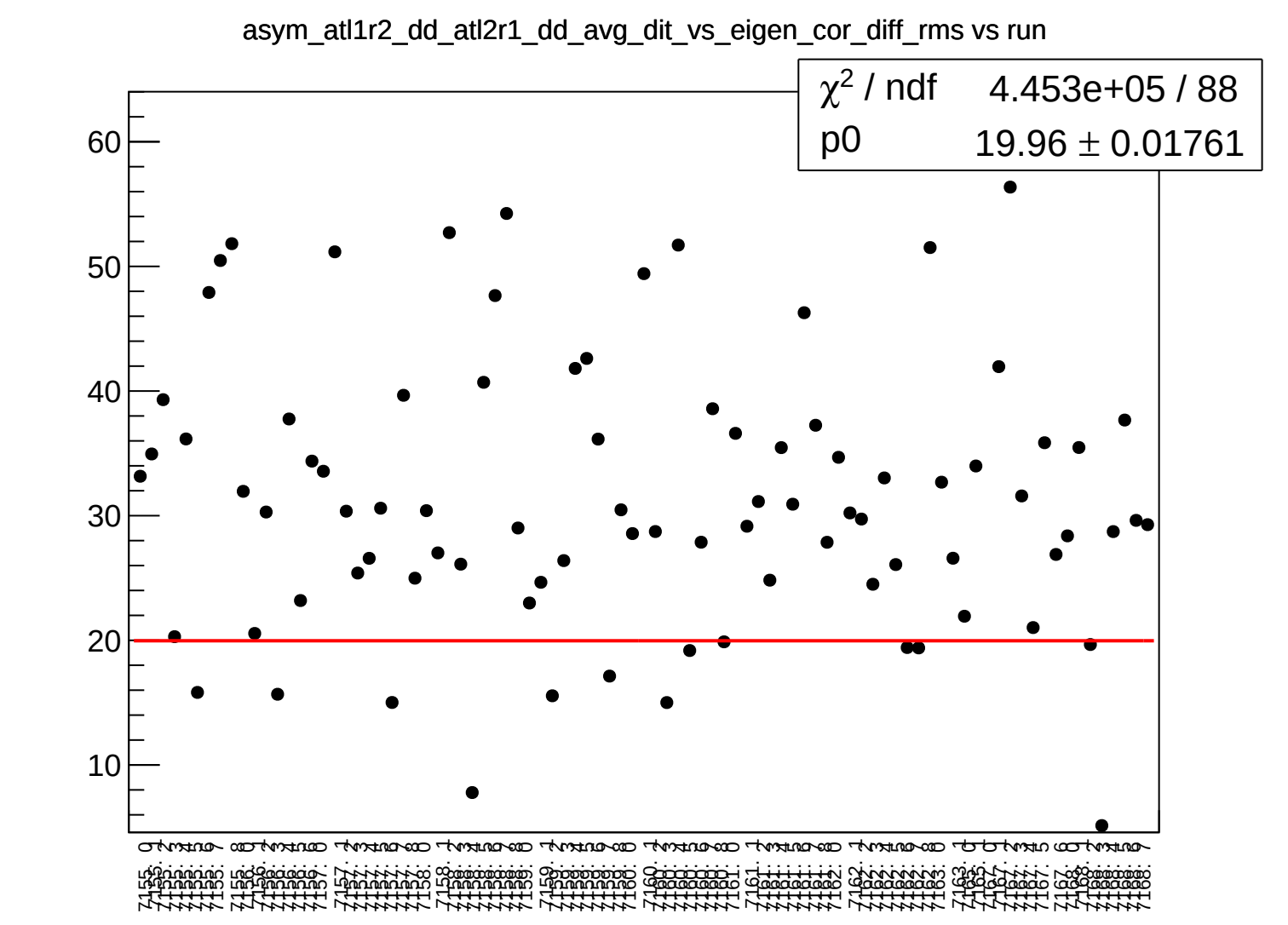

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 88
p0 9.103e−12 ± 1.121e−14
1
0.8
0.6
0.4
0.2
0

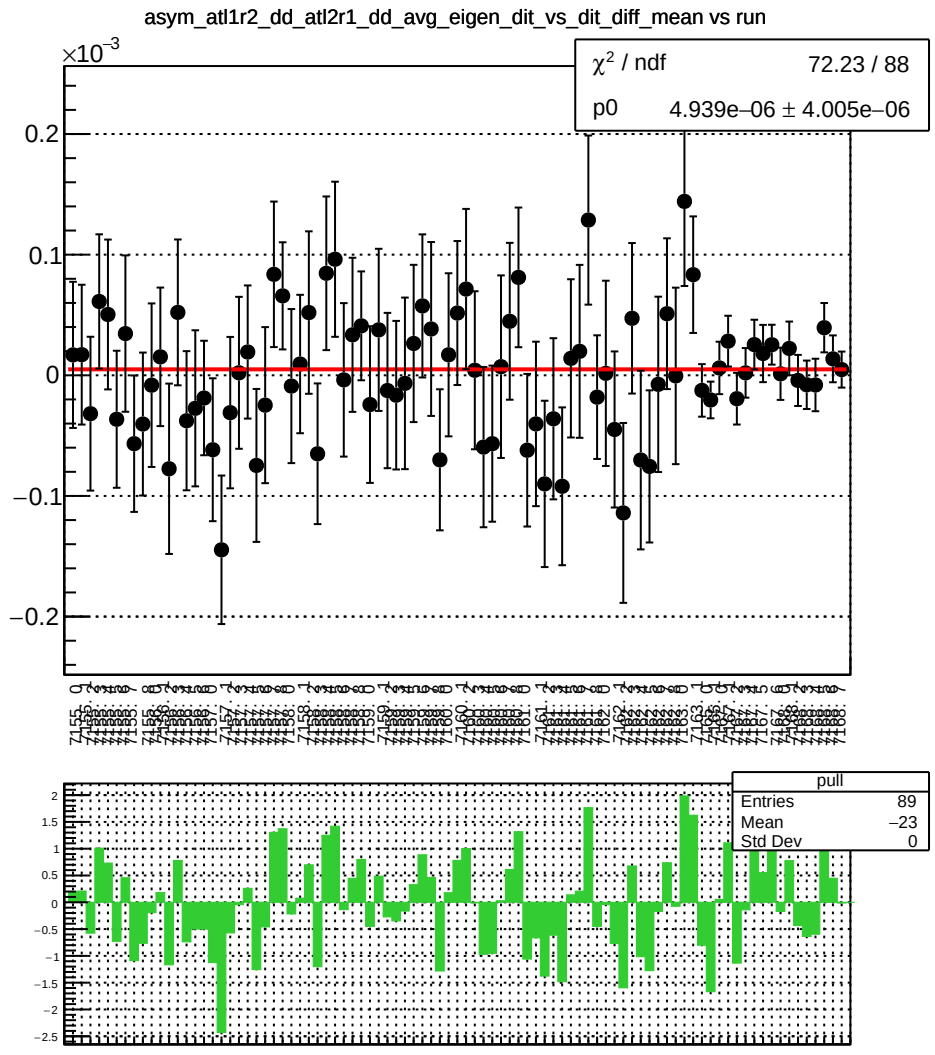

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003372 ± 0.02491
pull
Entries 89
Mean −109.9
Std Dev 0

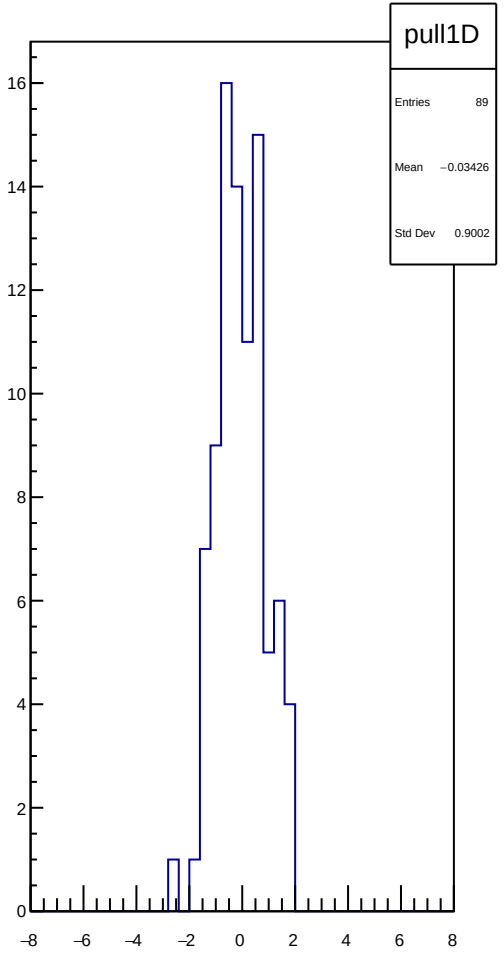

pull1D
Entries 89
Mean 0.01309
Std Dev 0.9097

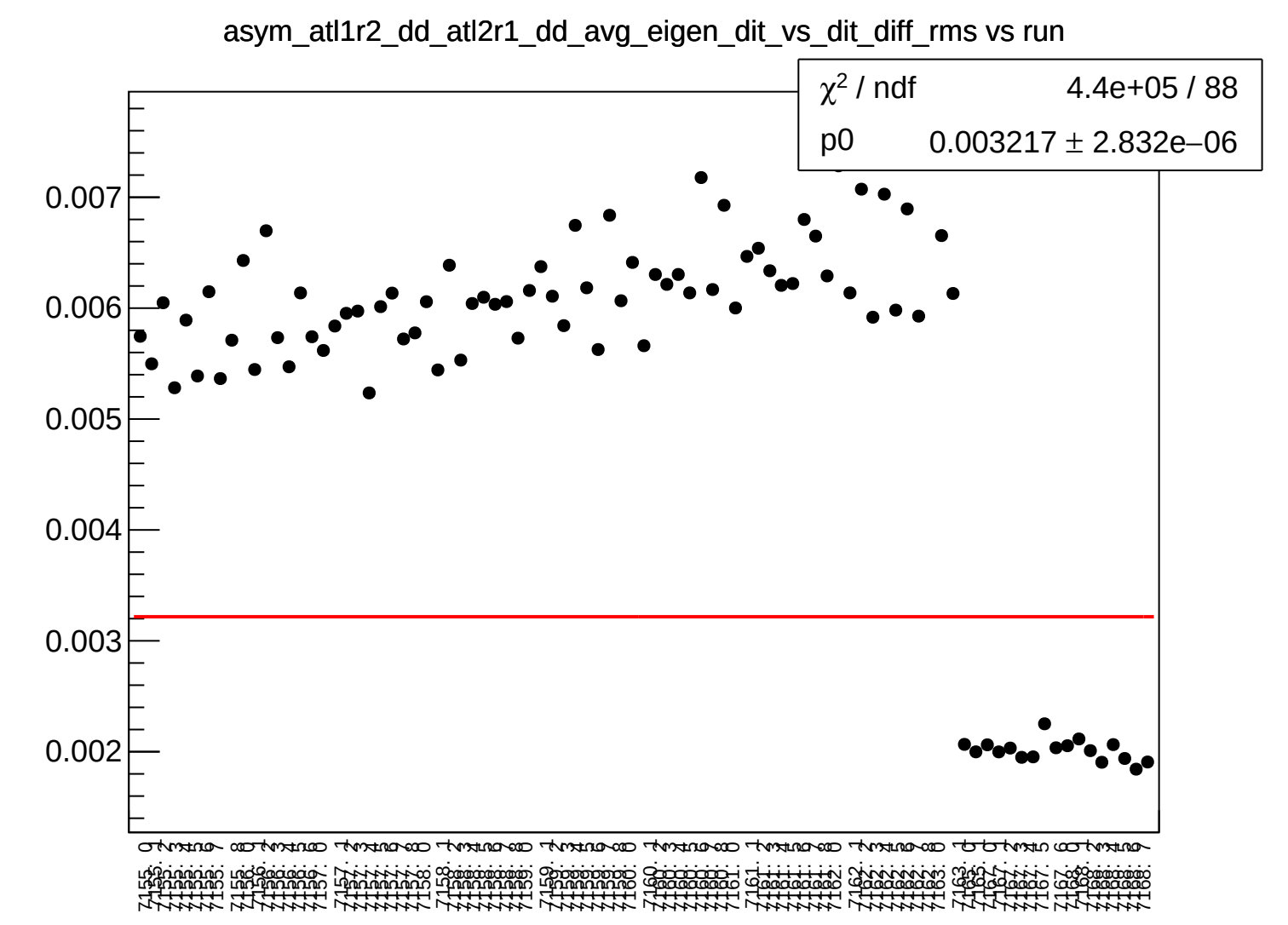

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

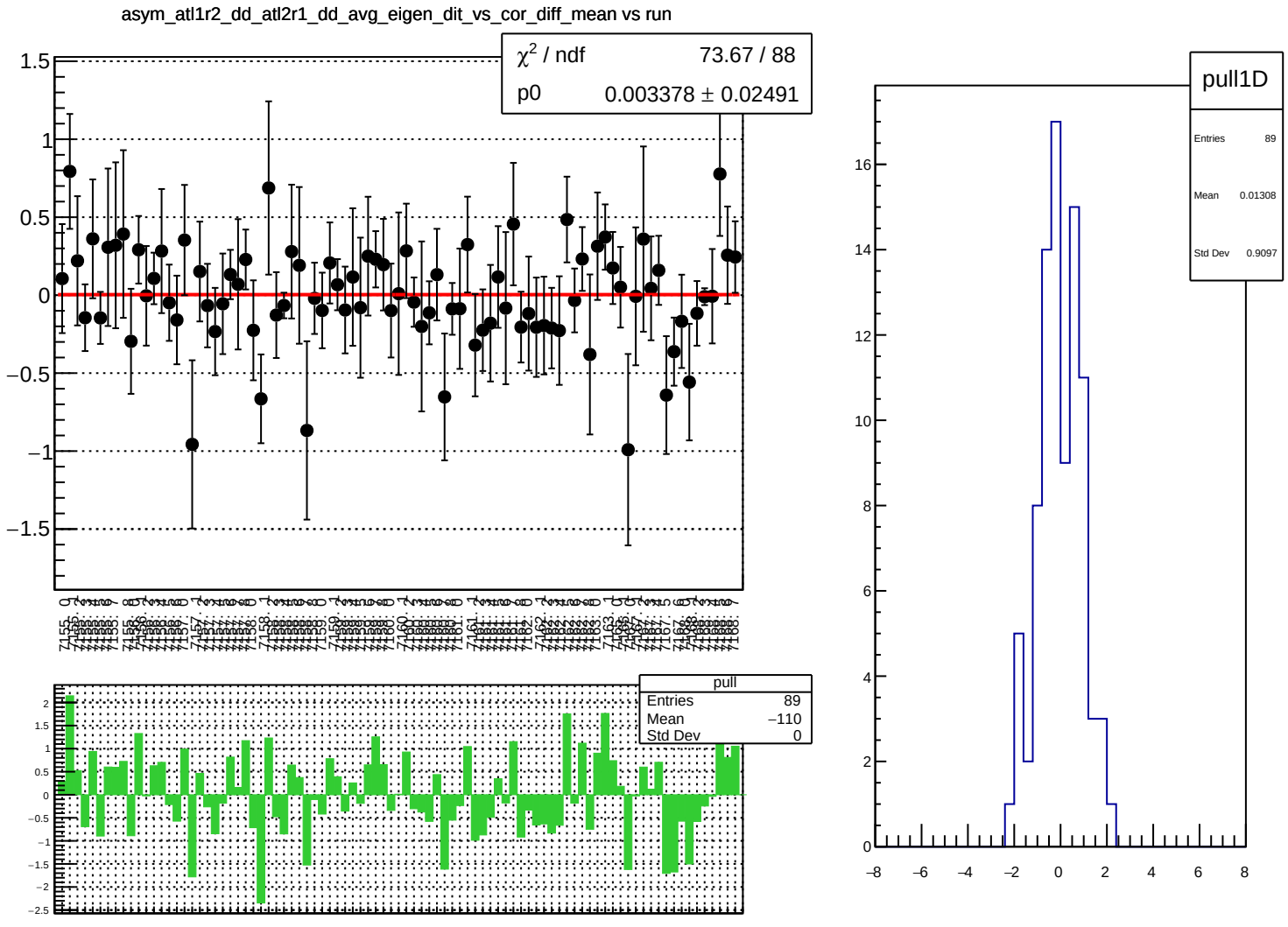

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003372 ± 0.02491
pull
Entries 89
Mean −109.9
Std Dev 0
pull1D
Entries 89
Mean 0.01309
Std Dev 0.9097

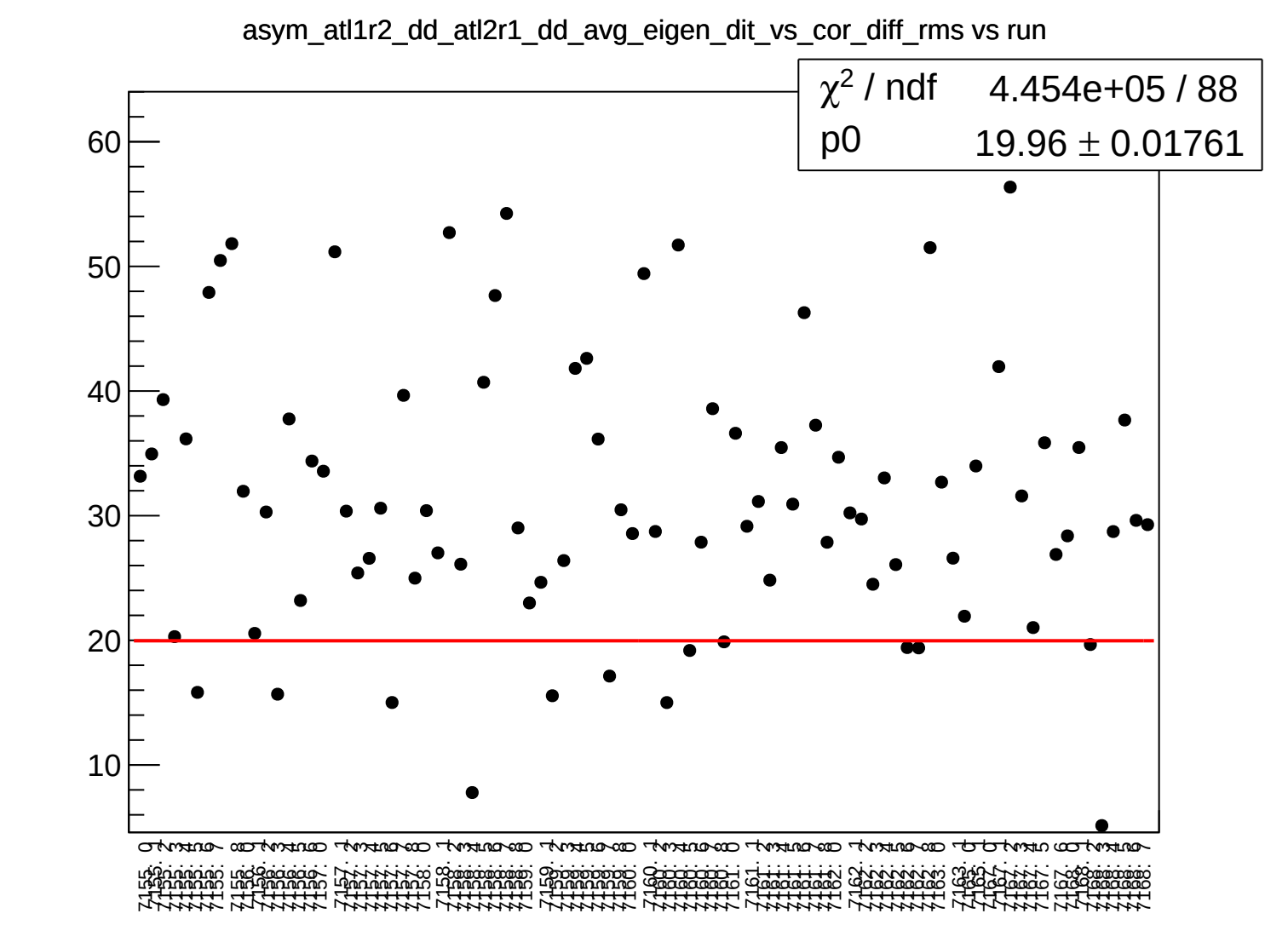

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

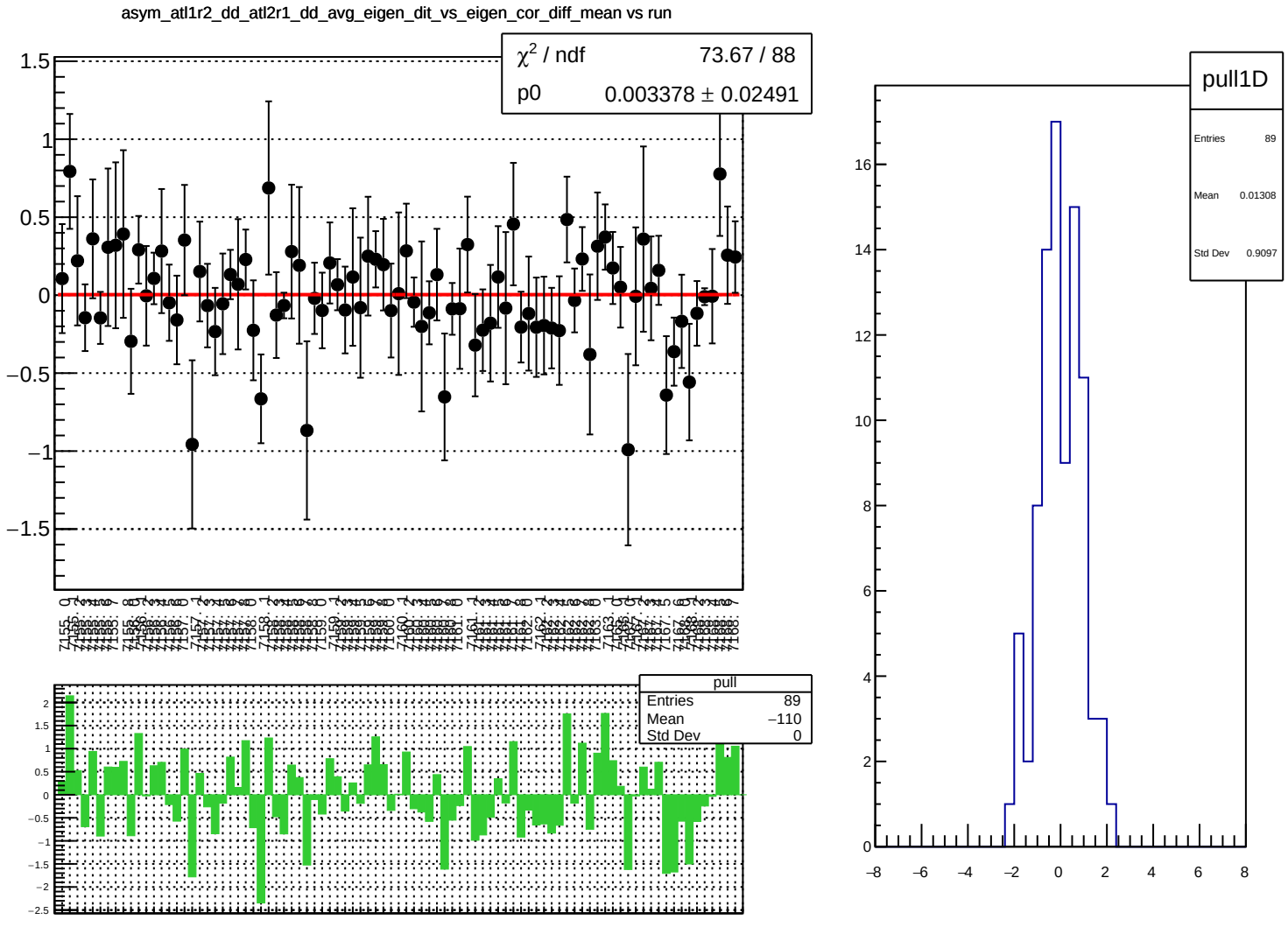

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.23 / 88
p0 4.939e−06 ± 4.005e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 89
Mean −23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

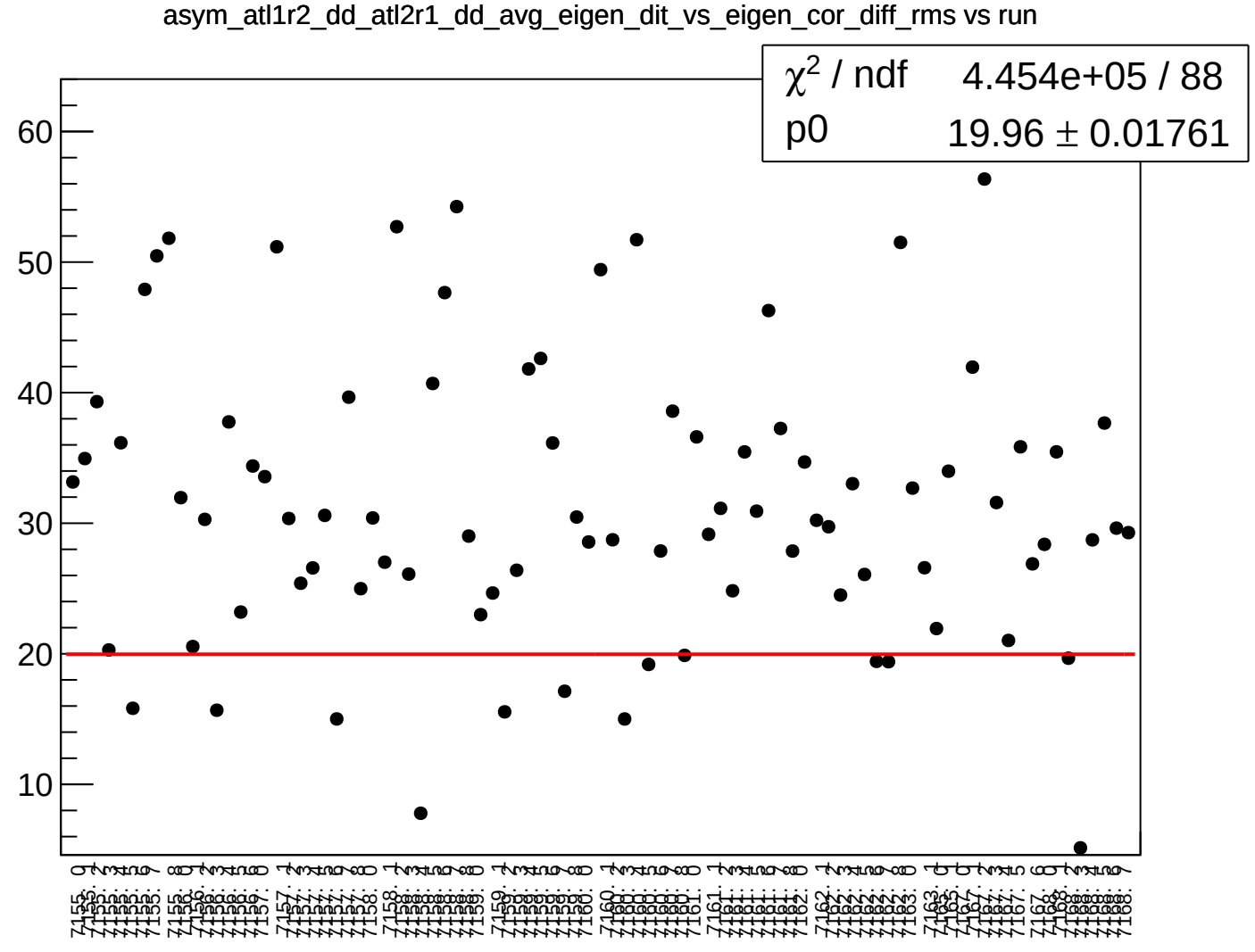

pull1D
Entries 89
Mean −0.03426
Std Dev 0.9002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

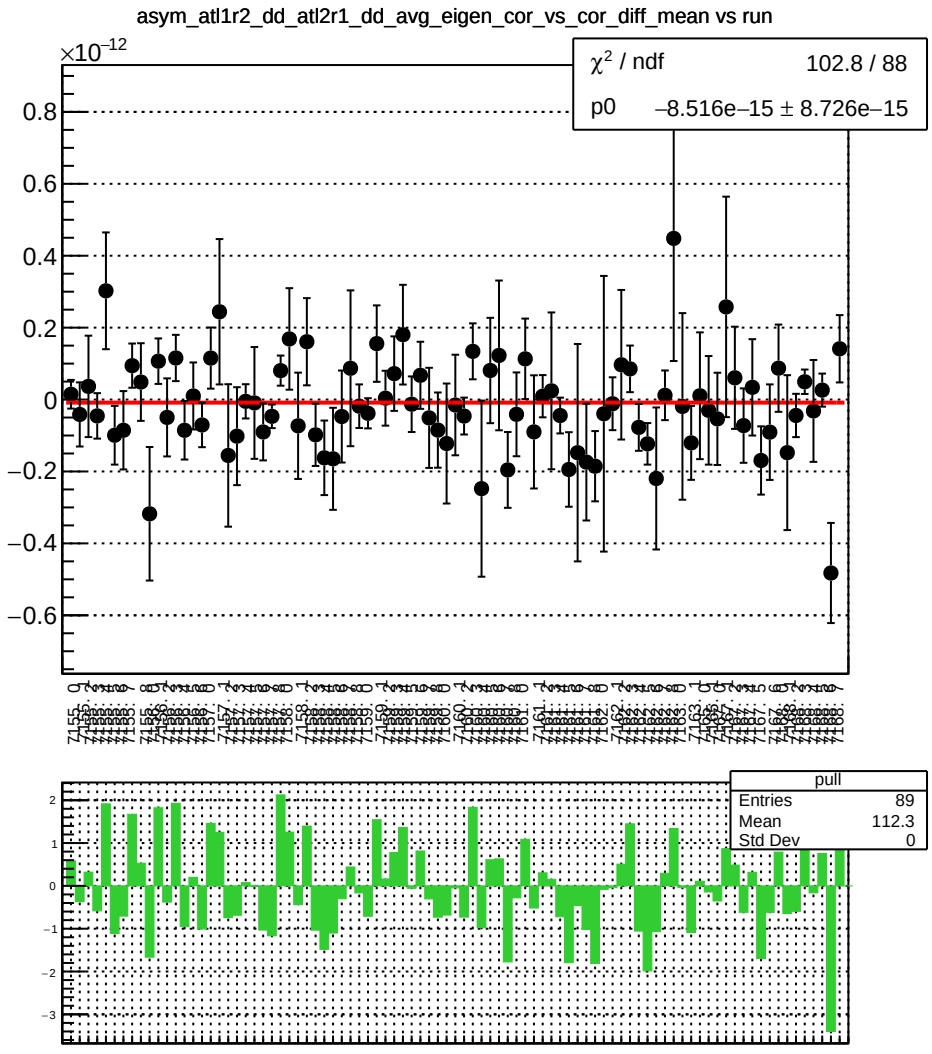

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.4e+05 / 88
p0 0.003217 ± 2.832e−06
0.007
0.006
0.005
0.004
0.003
0.002

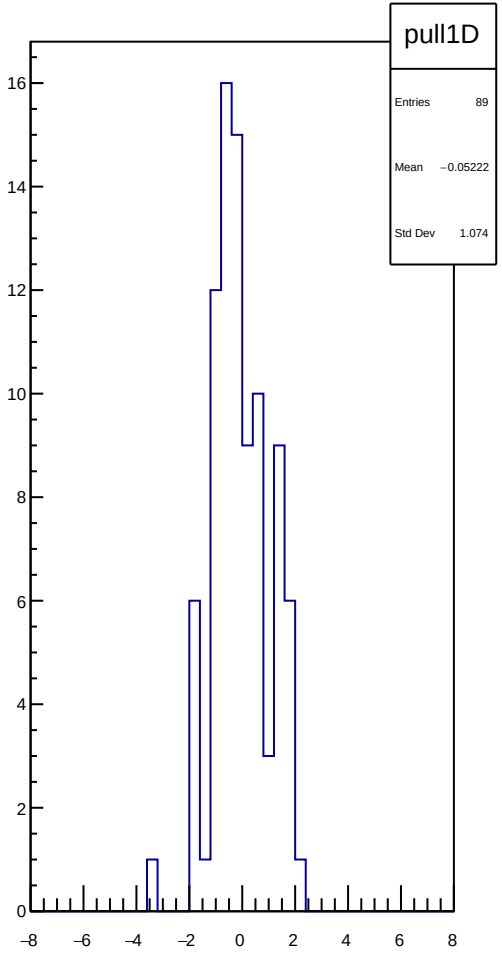

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003378 ± 0.02491
pull
Entries 89
Mean −110
Std Dev 0
pull1D
Entries 89
Mean 0.01308
Std Dev 0.9097

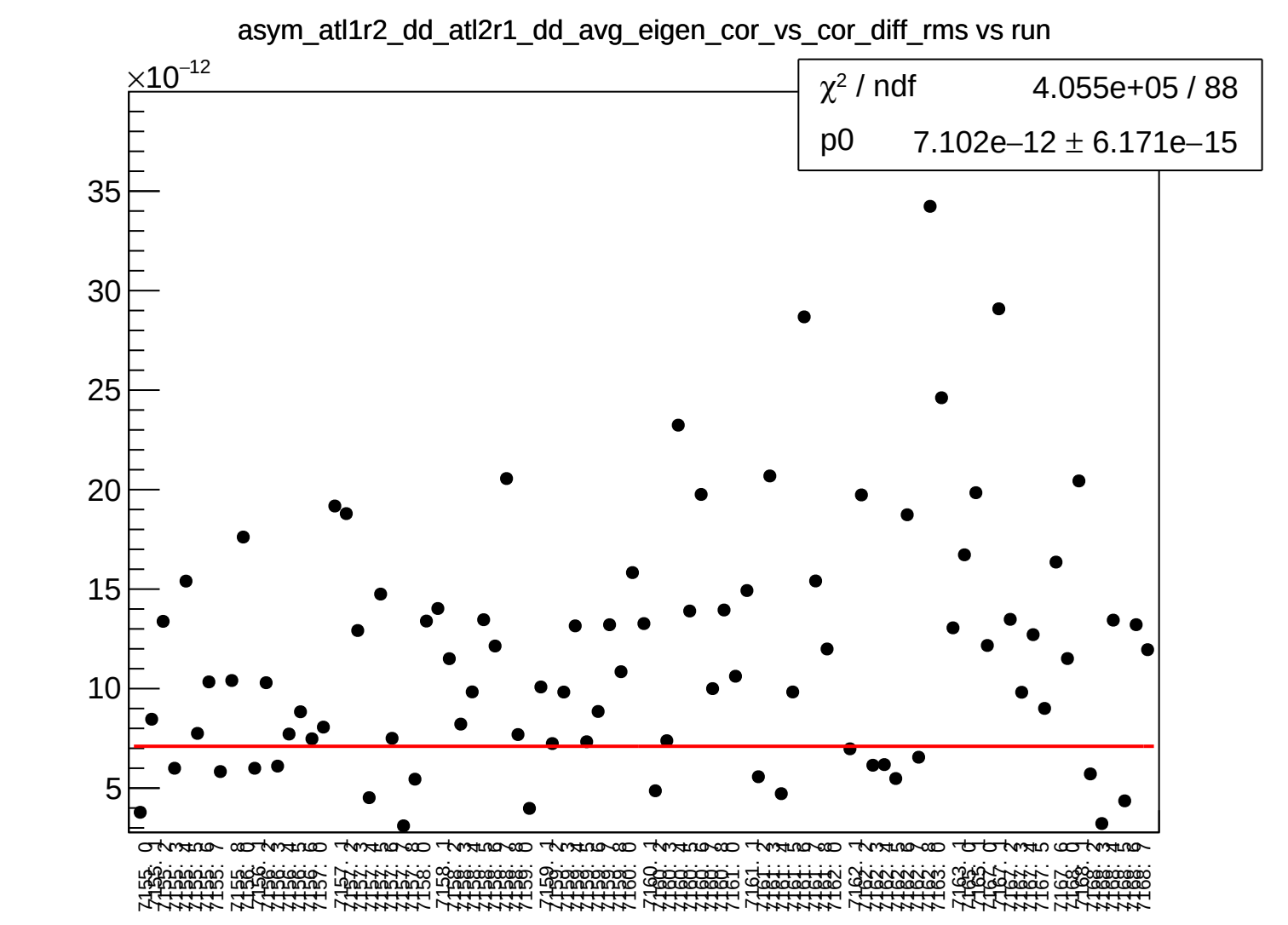

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

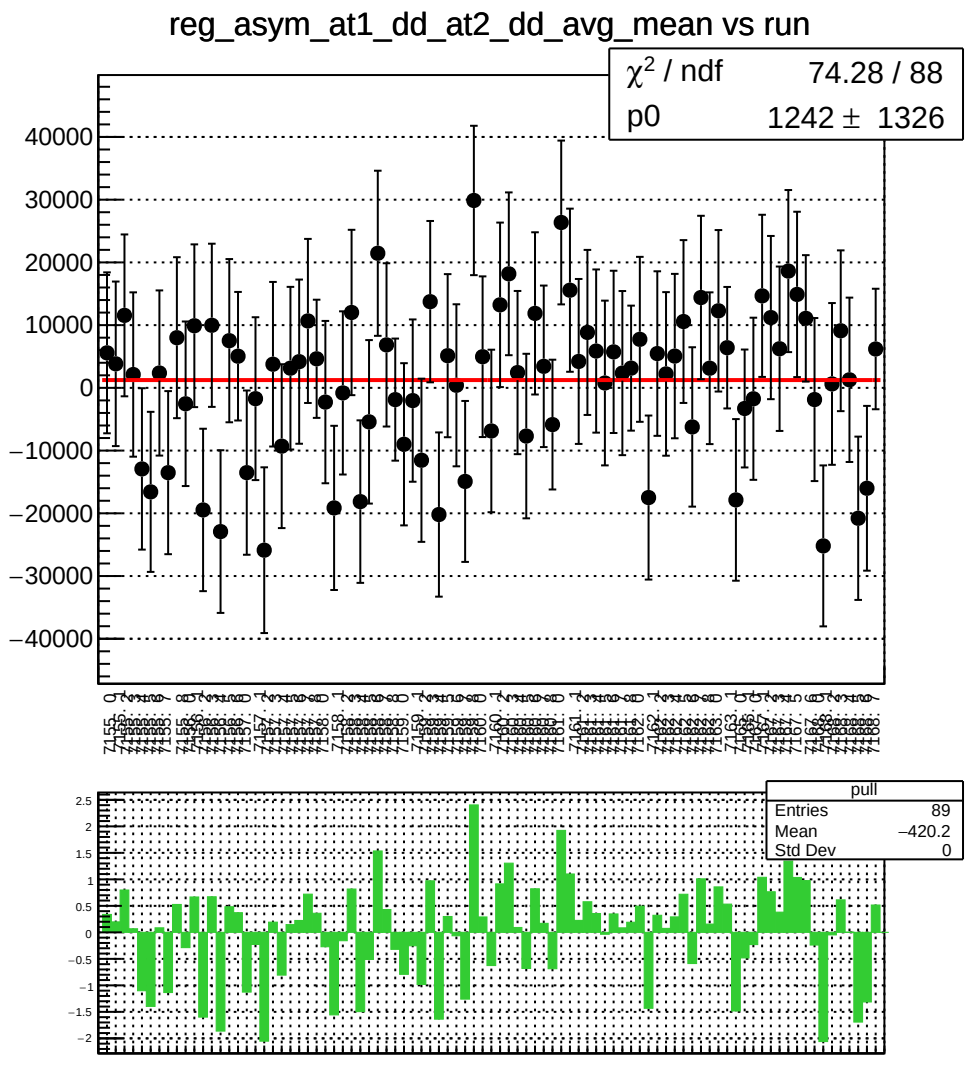

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.67 / 88
p0 0.003378 ± 0.02491
pull
Entries 89
Mean −110
Std Dev 0
pull1D
Entries 89
Mean 0.01308
Std Dev 0.9097

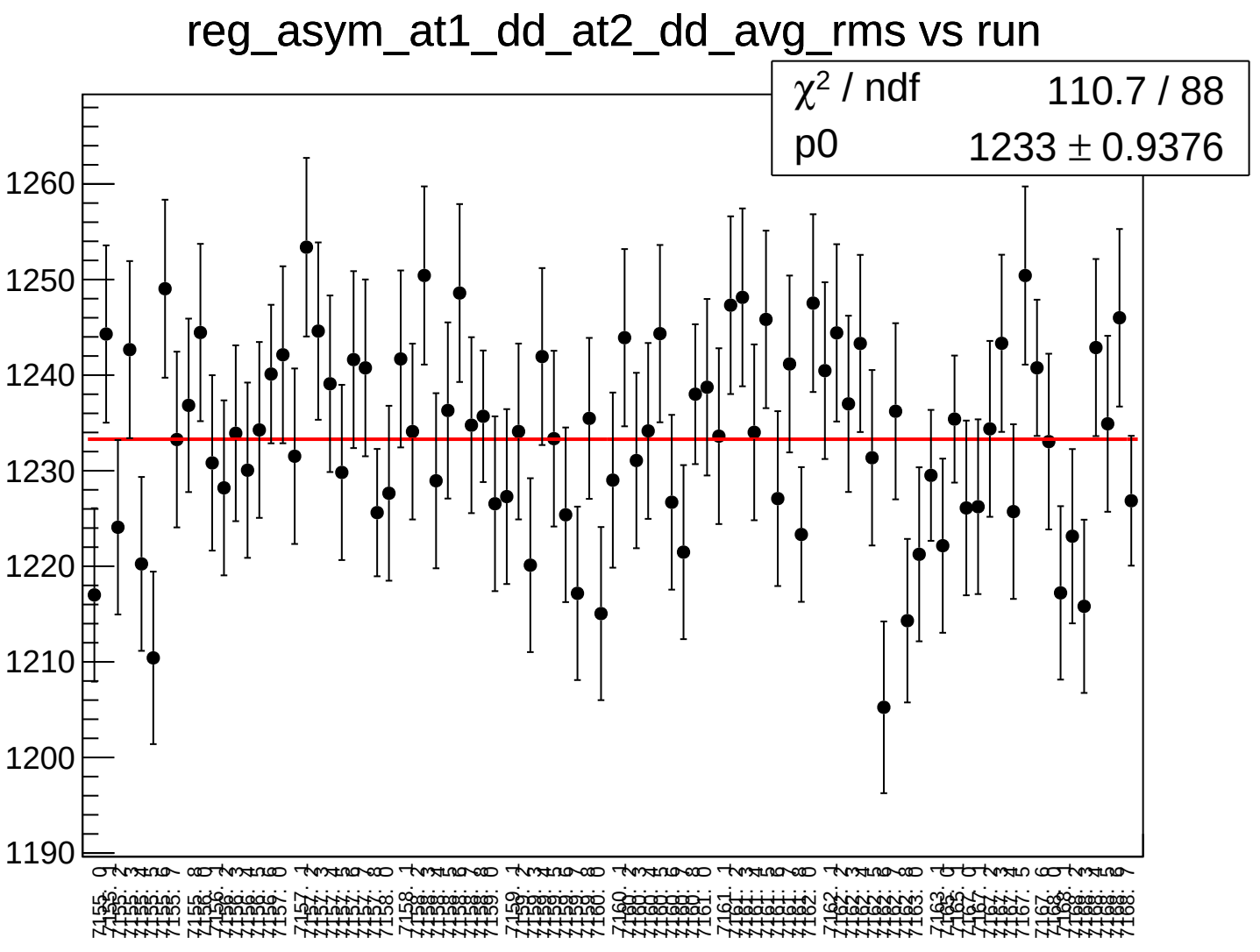

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 88
p0 19.96 ± 0.01761
60
50
40
30
20
10

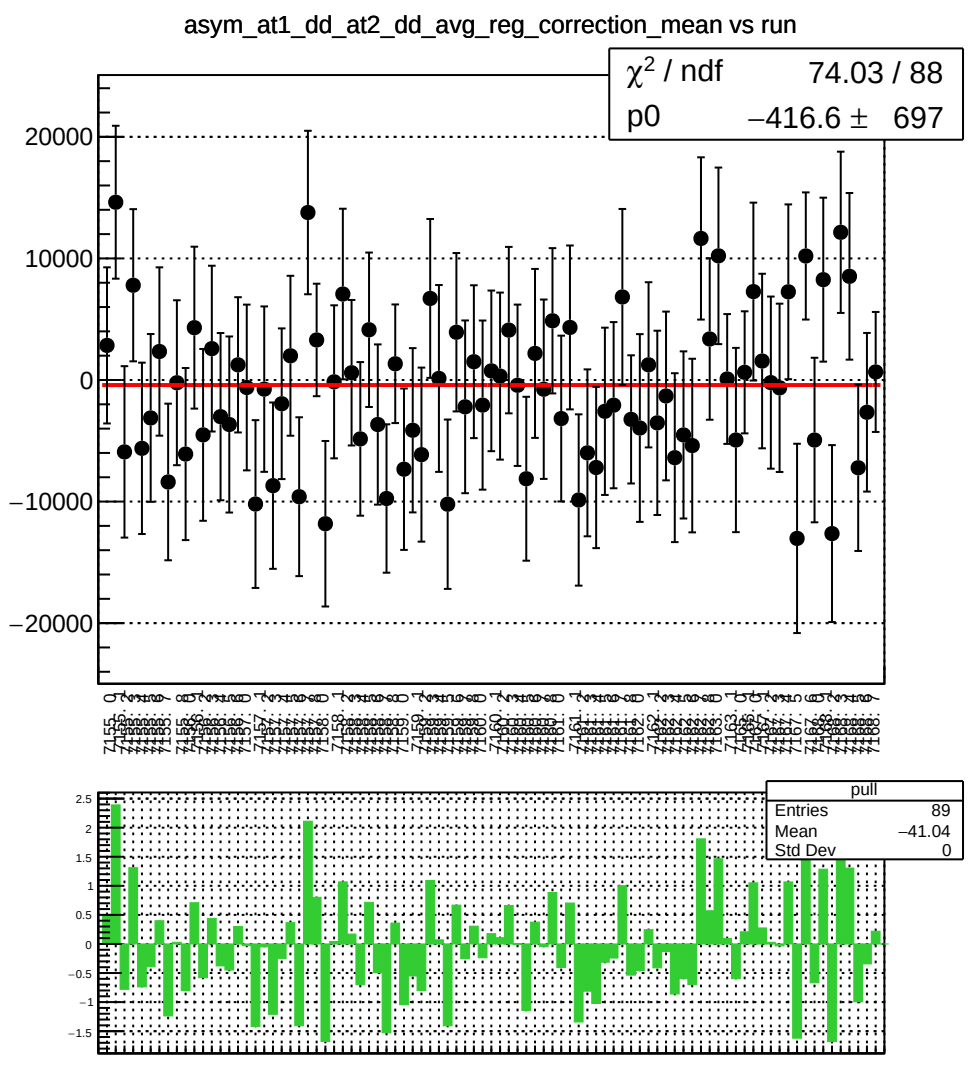

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 102.8 / 88
p0 −8.516e−15 ± 8.726e−15
pull
Entries 89
Mean 112.3
Std Dev 0

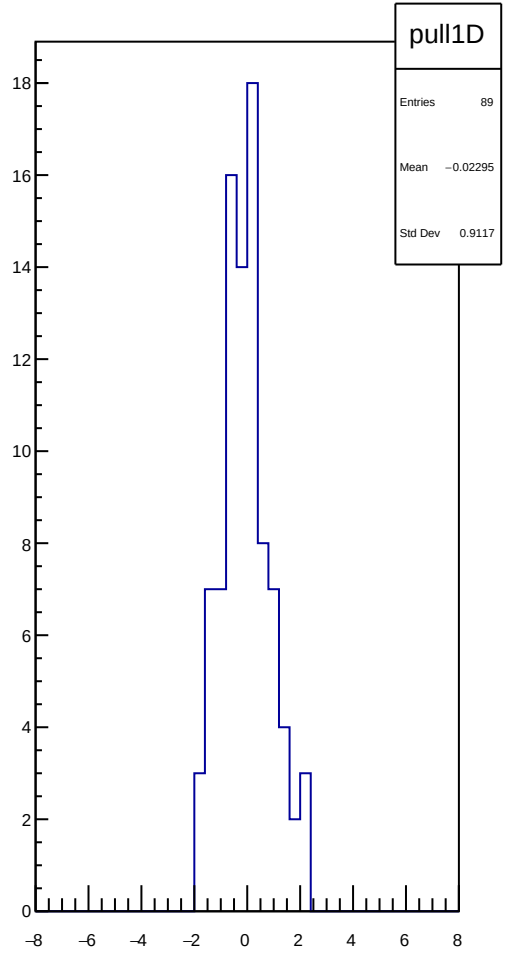

pull1D
Entries 89
Mean −0.05222
Std Dev 1.074

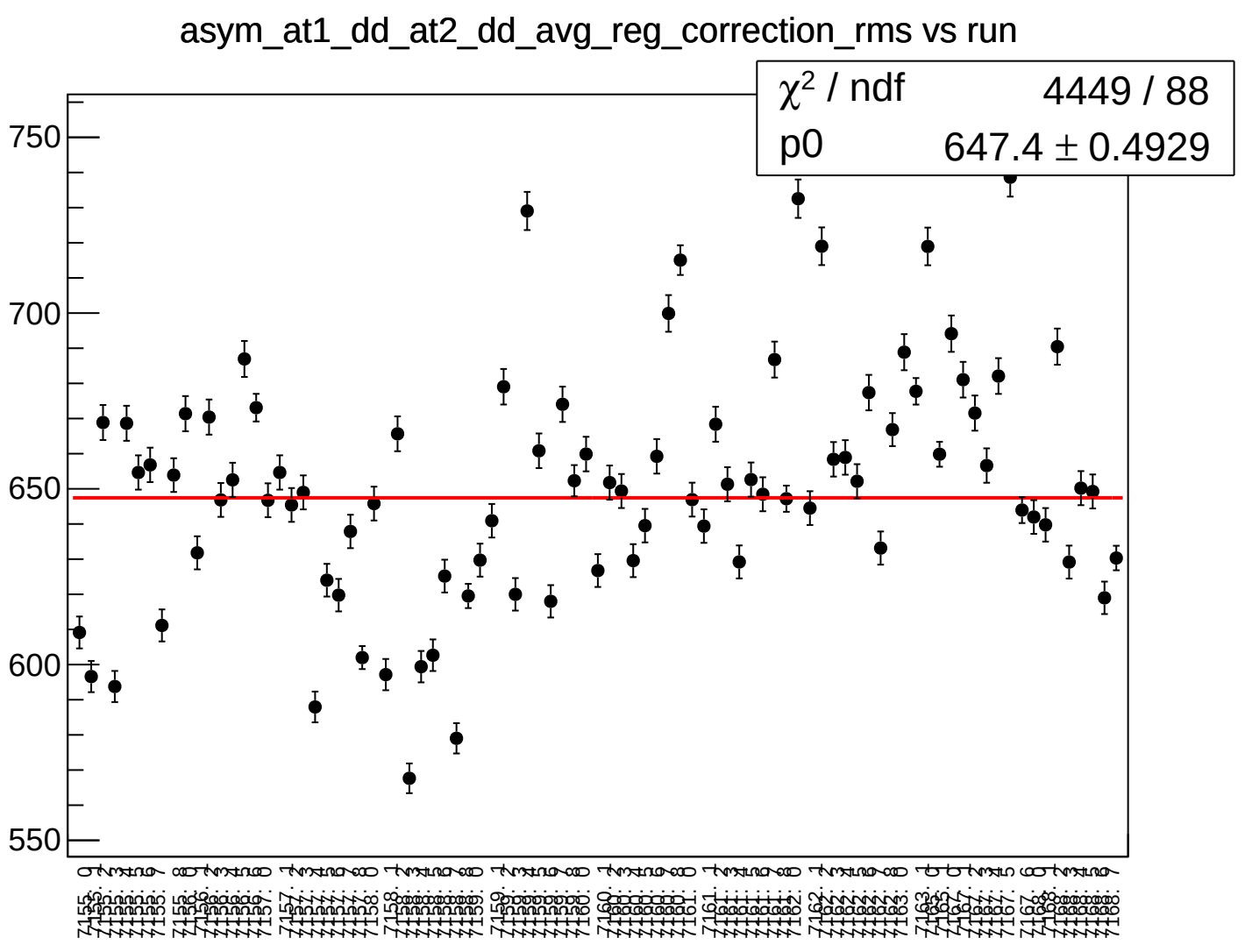

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.055e+05 / 88
p0 7.102e−12 ± 6.171e−15
35
30
25
20
15
10
5

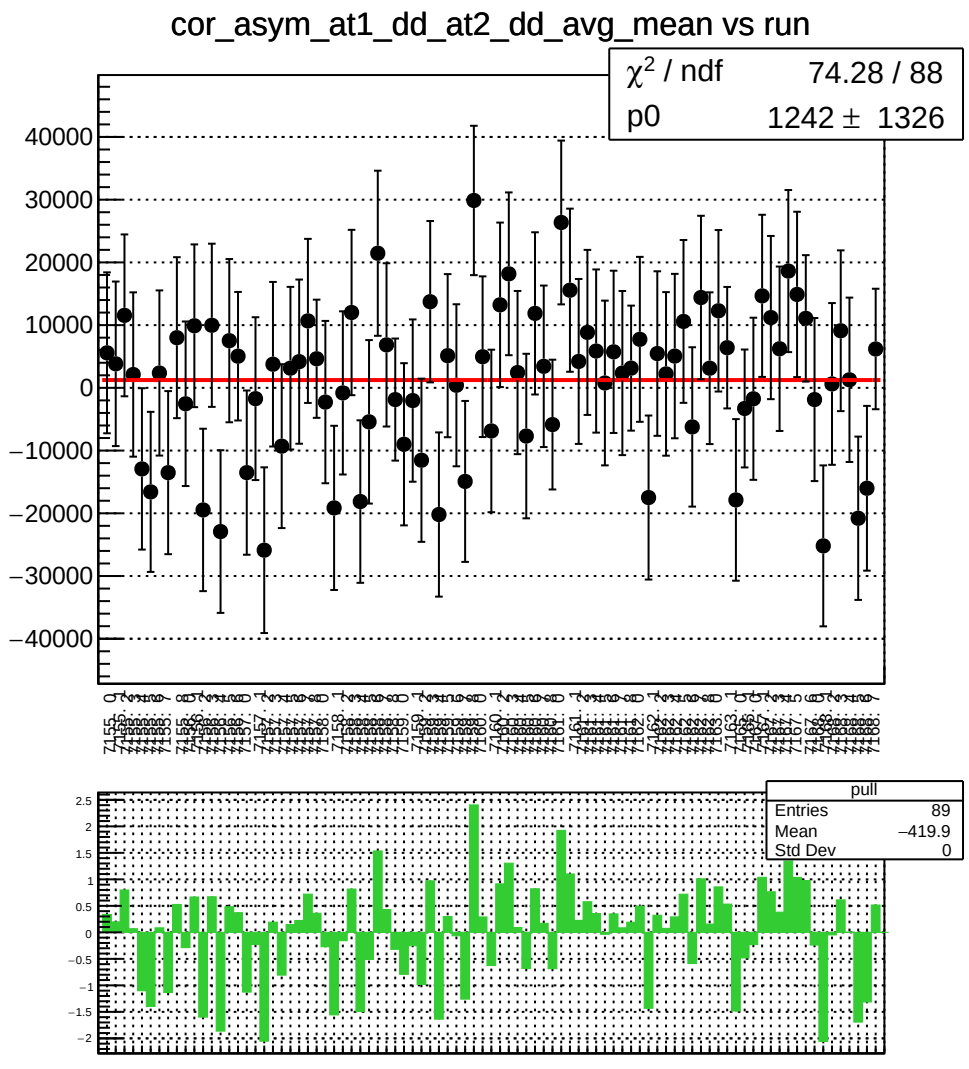

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
pull
Entries 89
Mean −420.2
Std Dev 0
pull1D
Entries 89
Mean −0.00727
Std Dev 0.9135

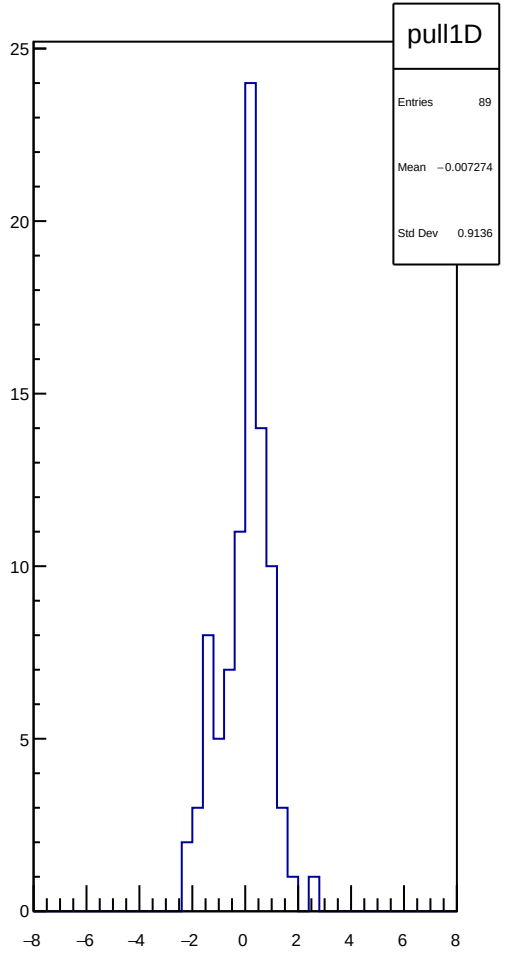

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

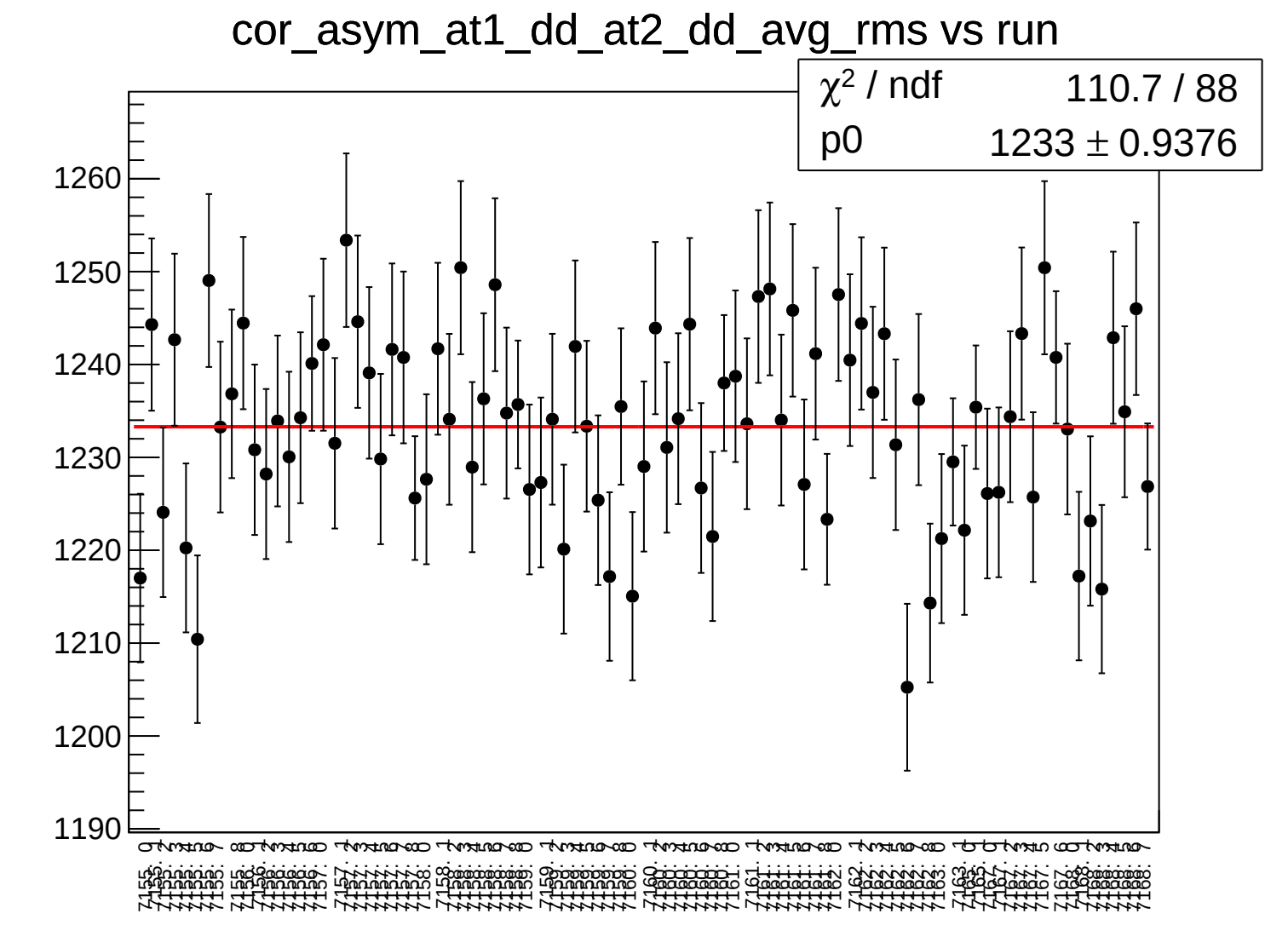

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.6 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

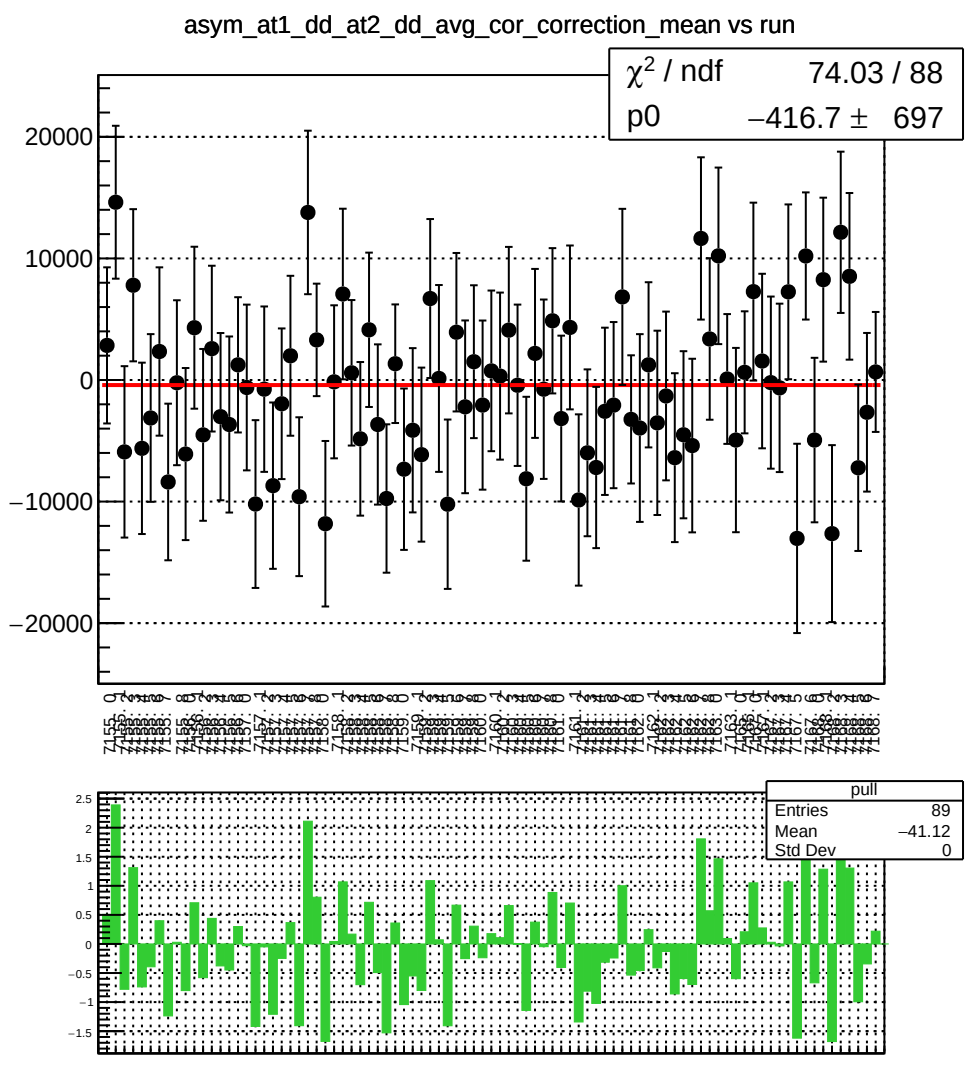

pull1D
Entries 89
Mean −0.02295
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

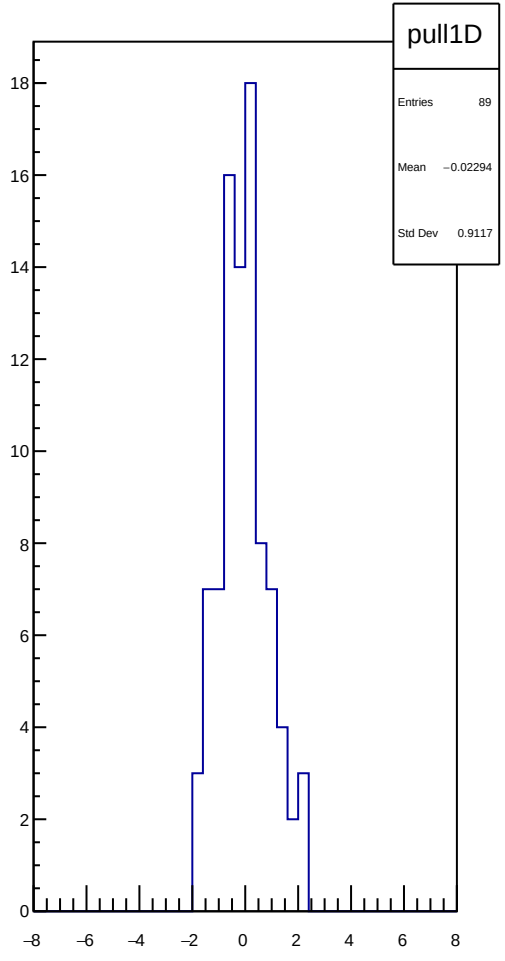

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 4449 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

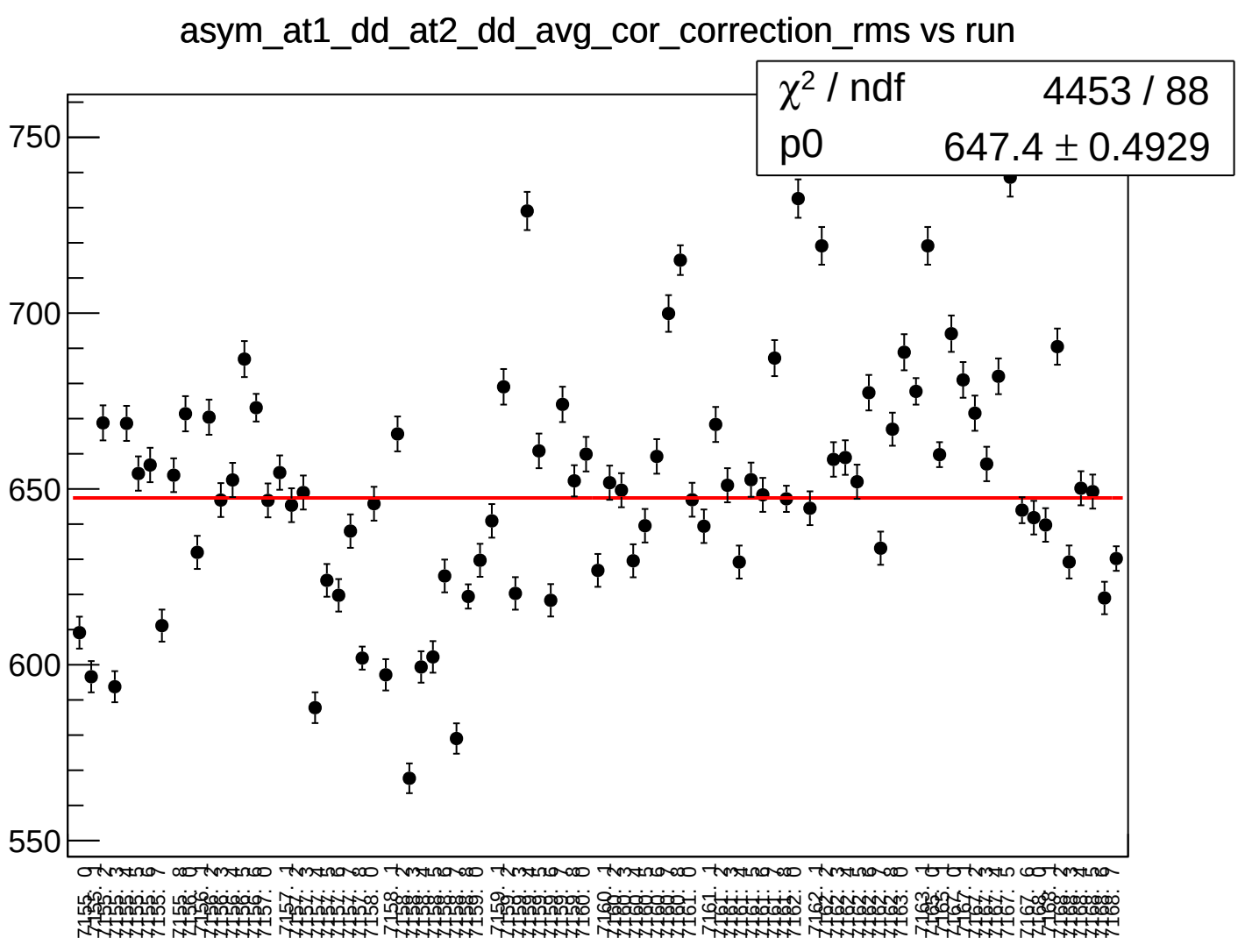

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
pull
Entries 89
Mean −419.9
Std Dev 0

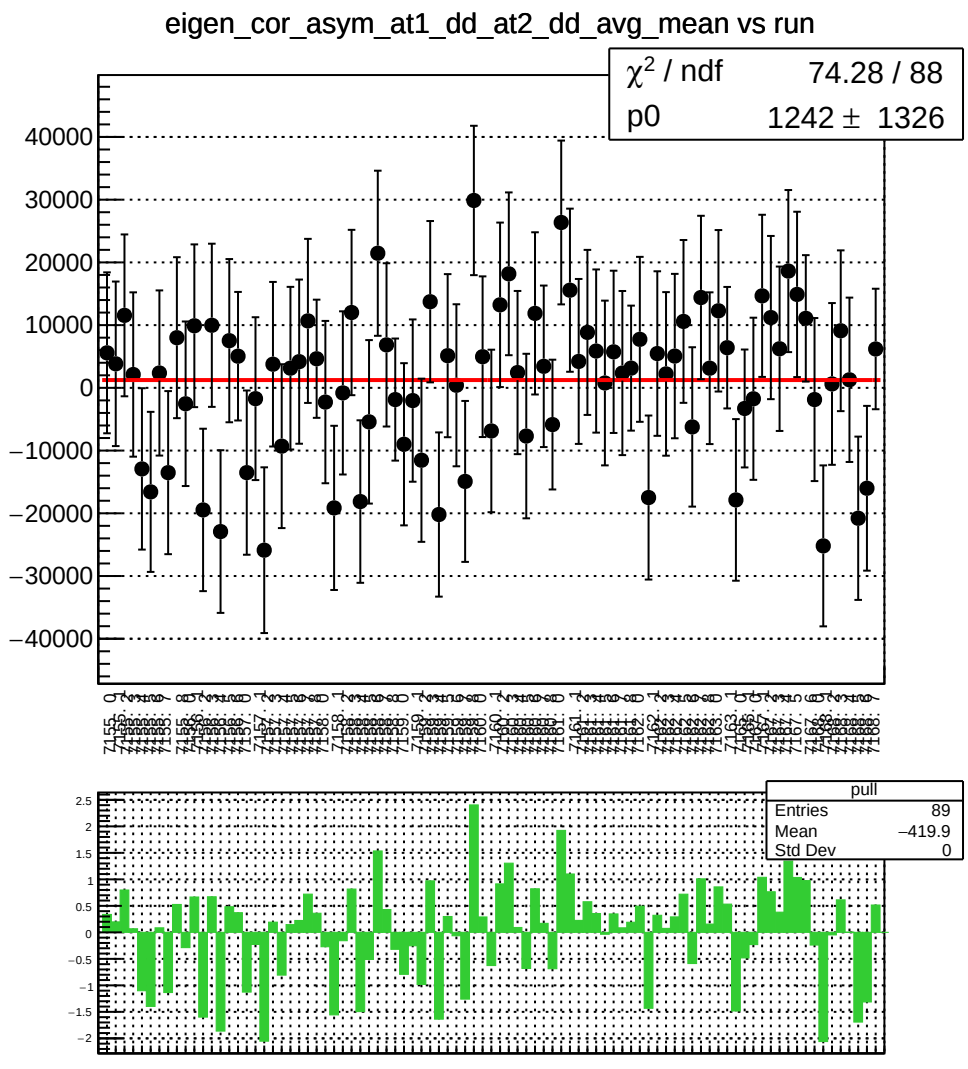

pull1D
Entries 89
Mean −0.007274
Std Dev 0.9136

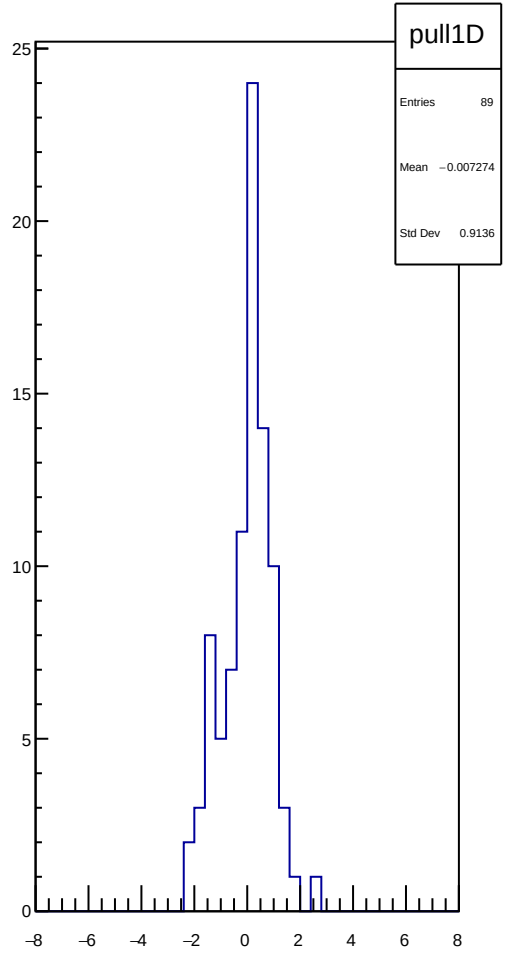

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

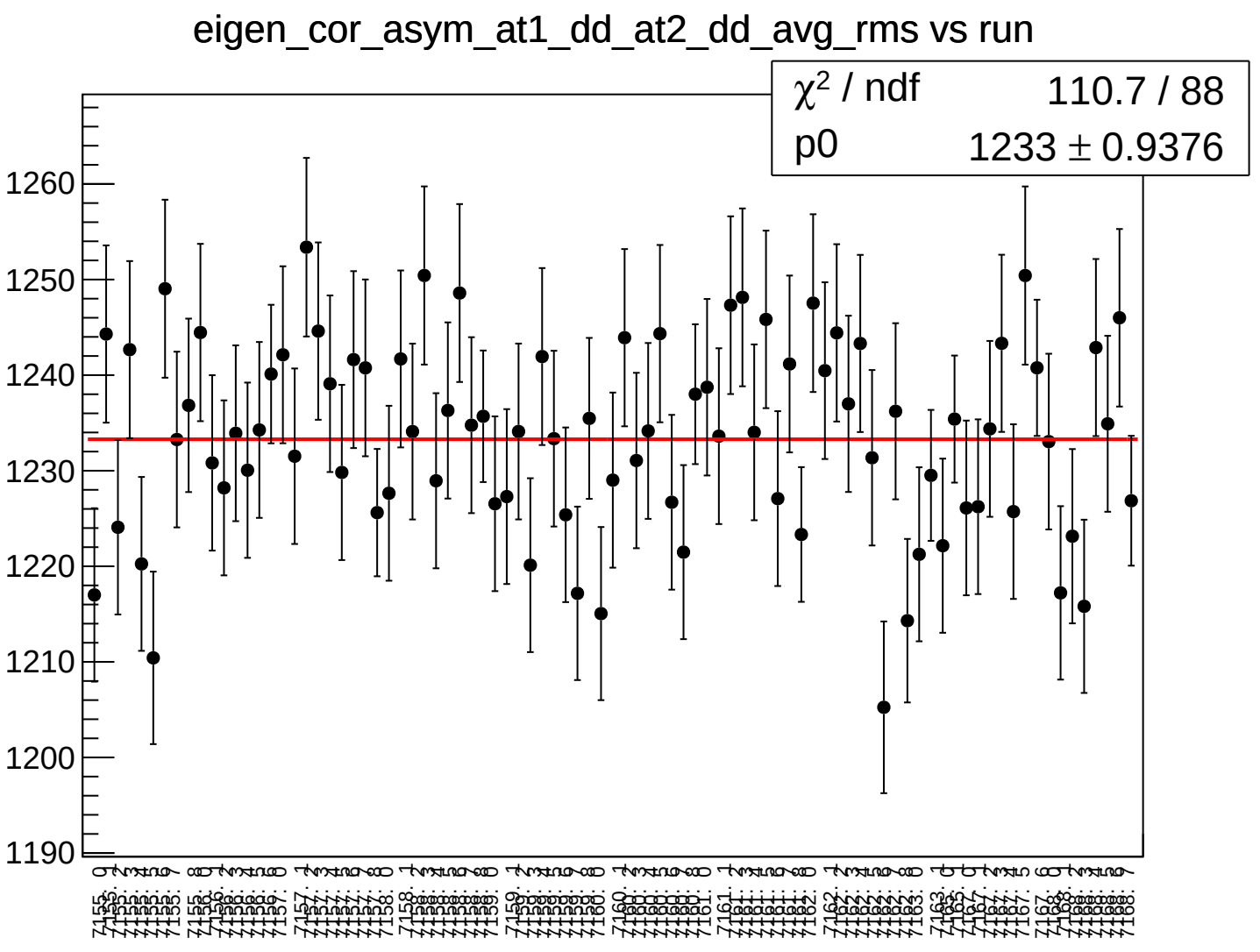

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.7 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

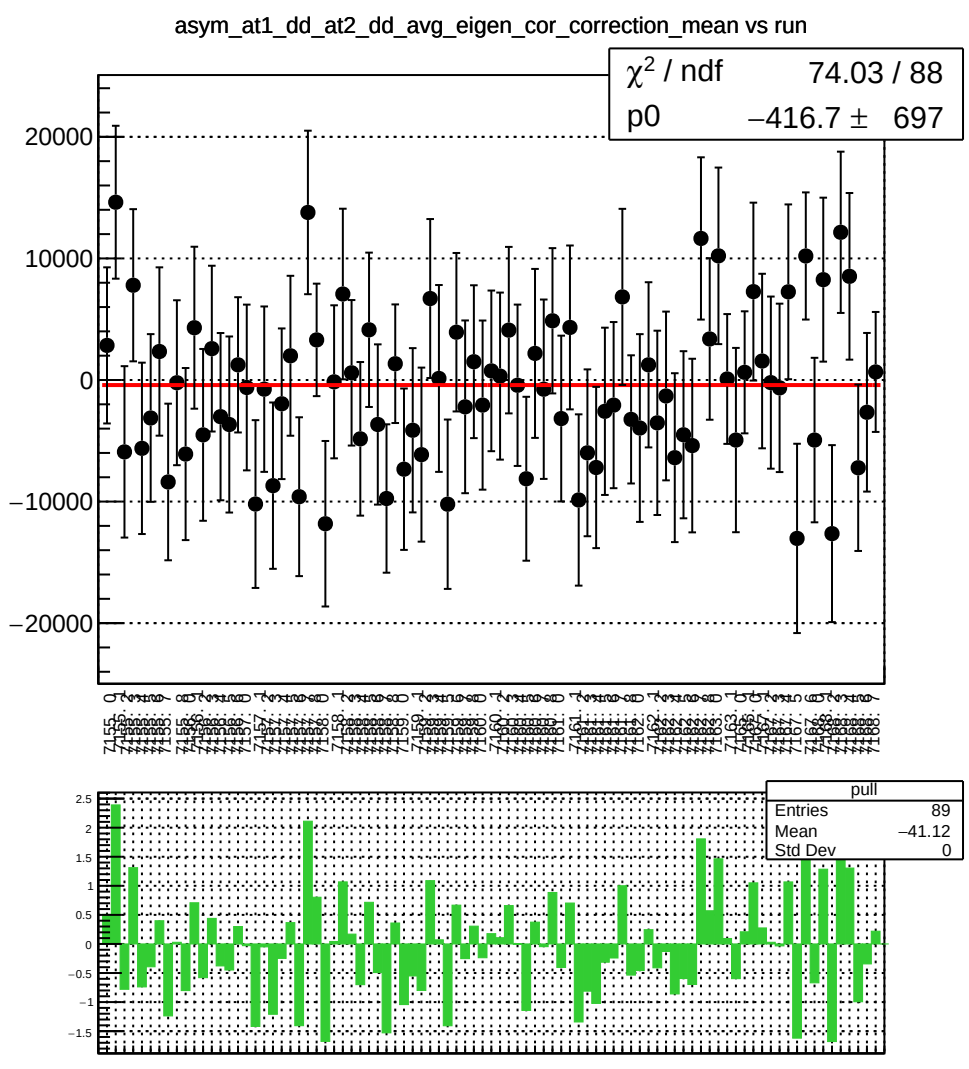

pull1D
Entries 89
Mean −0.02294
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

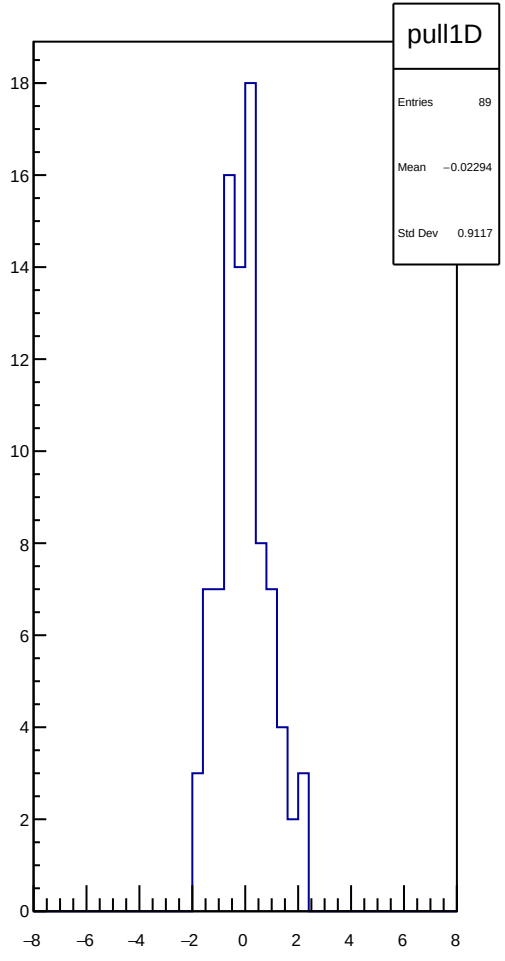

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 4453 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

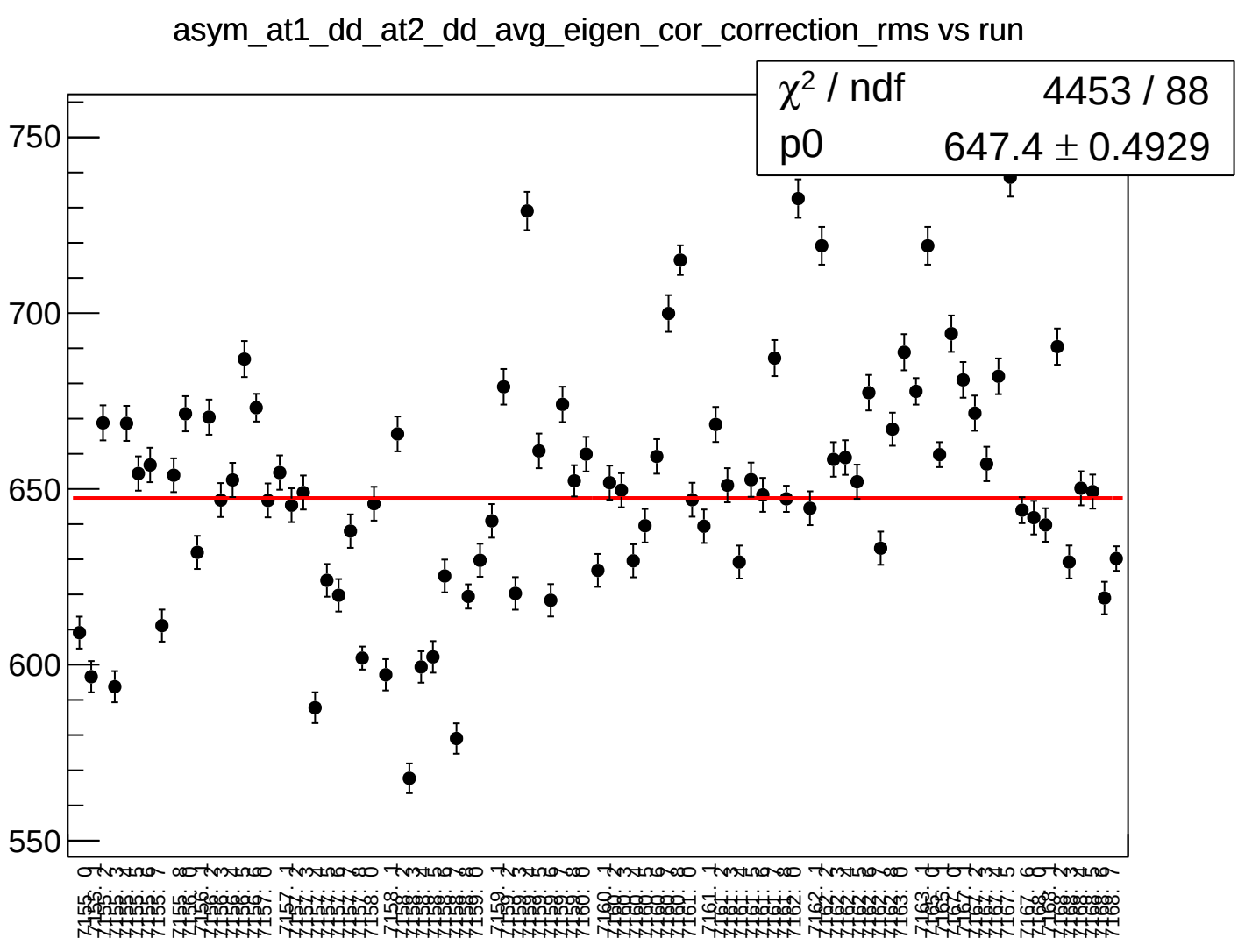

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.28 / 88
p0 1242 ± 1326
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −419.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

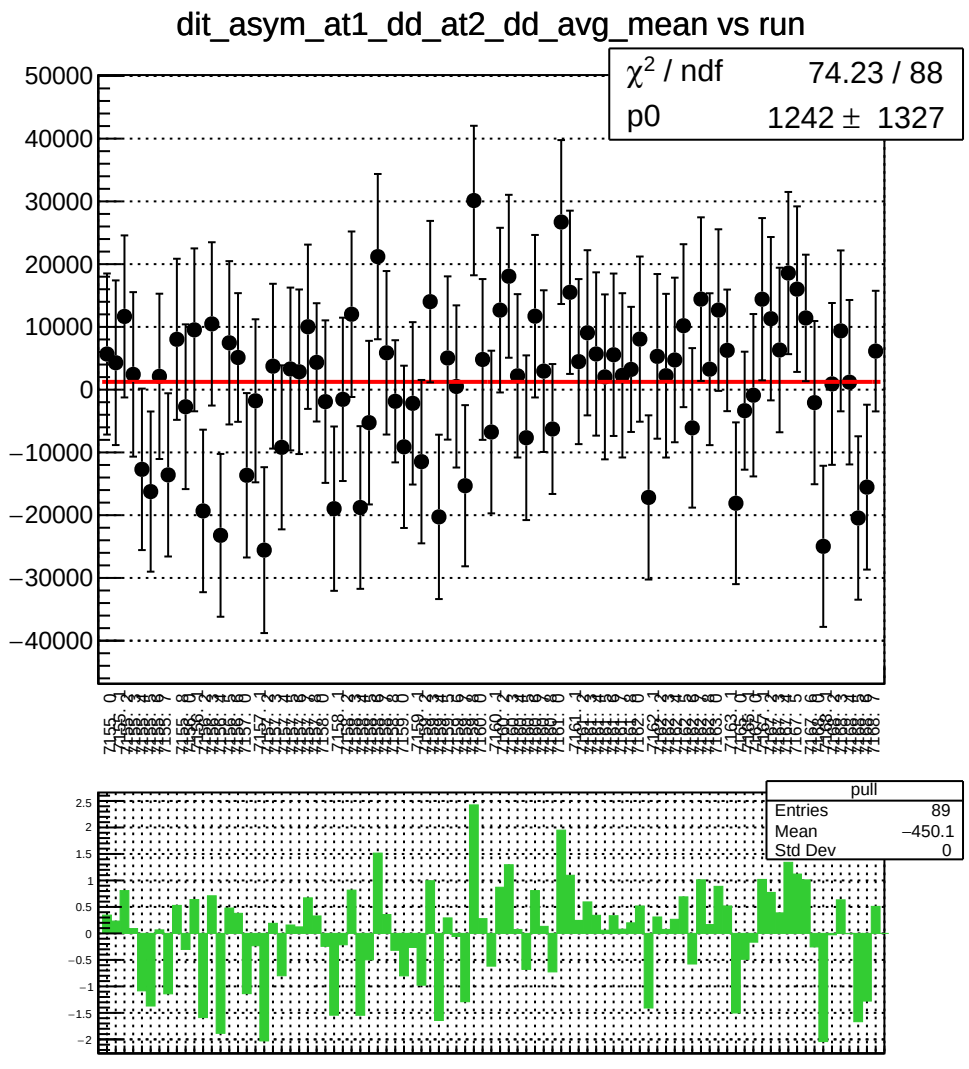

pull1D
Entries 89
Mean −0.007274
Std Dev 0.9136
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

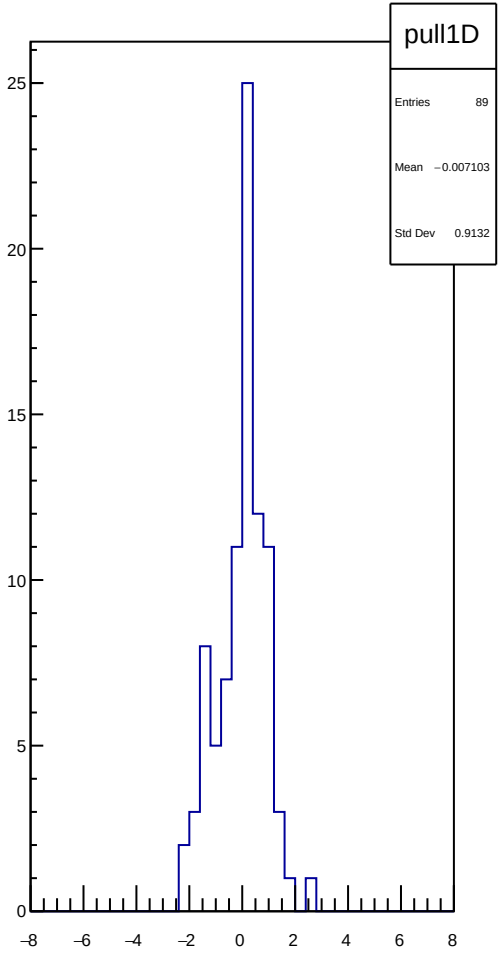

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 110.7 / 88
p0 1233 ± 0.9376
1260
1250
1240
1230
1220
1210
1200
1190

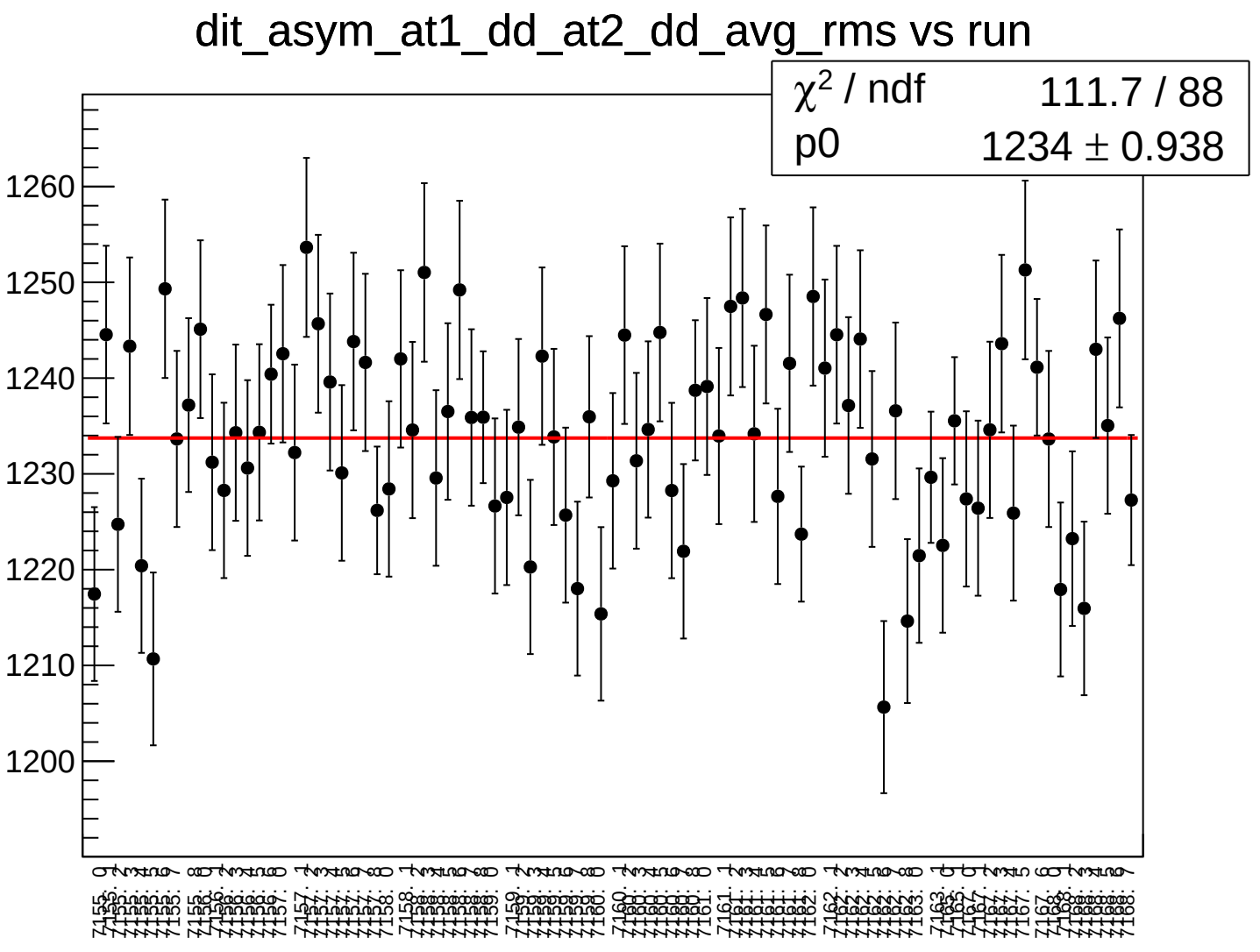

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.03 / 88
p0 −416.7 ± 697
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −41.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

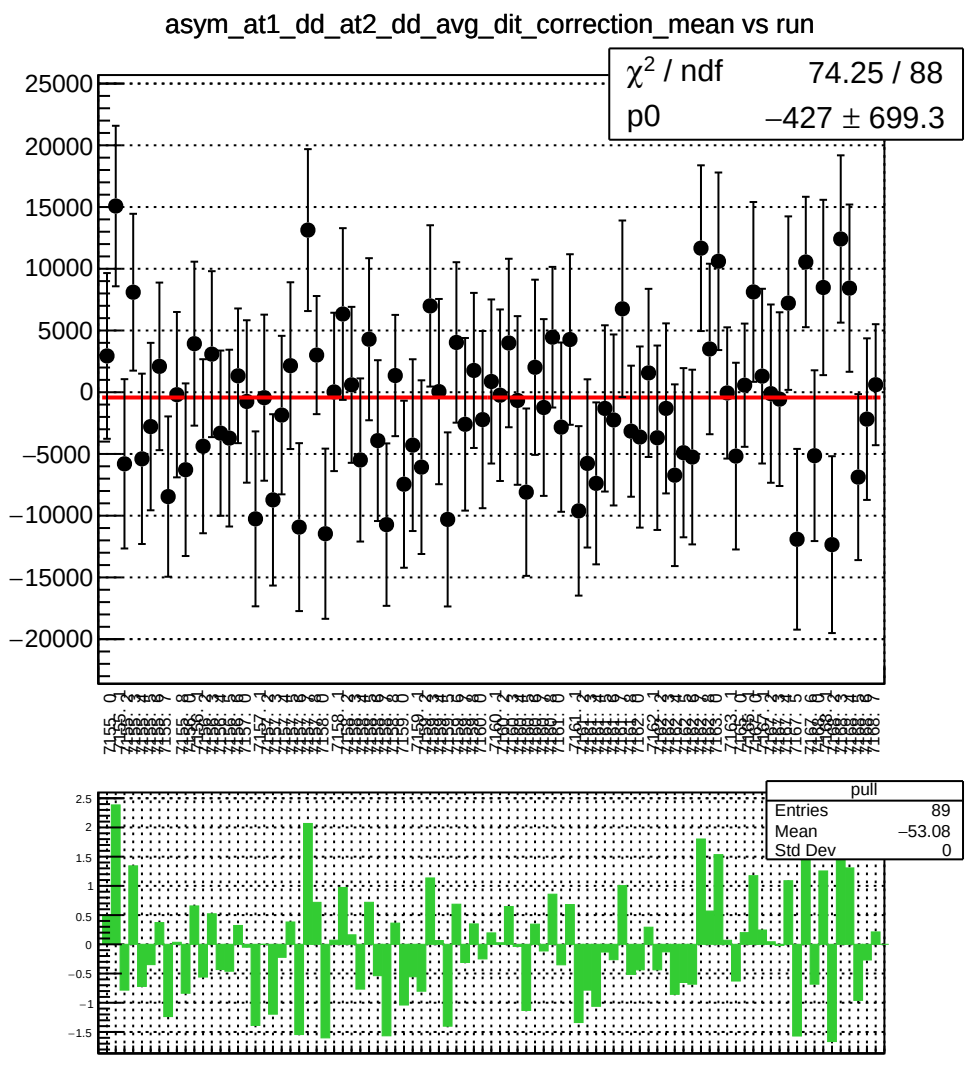

pull1D
Entries 89
Mean −0.02294
Std Dev 0.9117
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

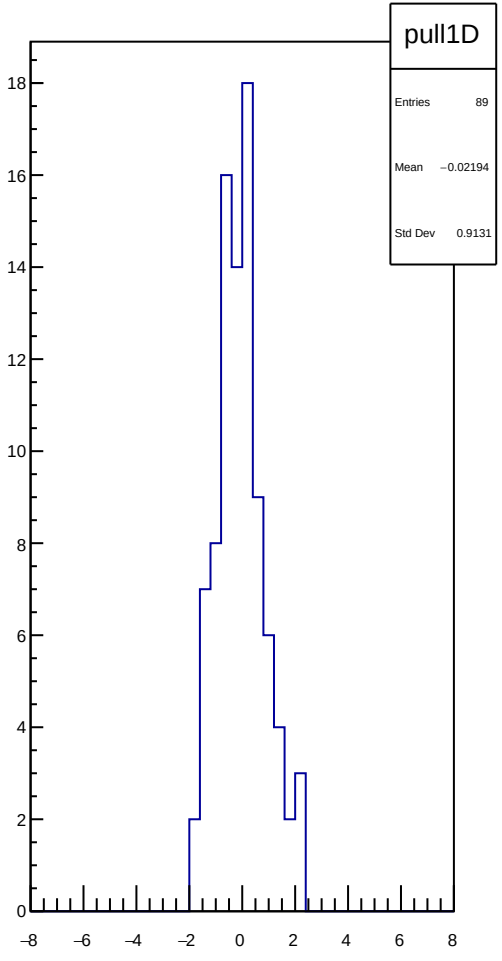

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4453 / 88
p0 647.4 ± 0.4929
750
700
650
600
550

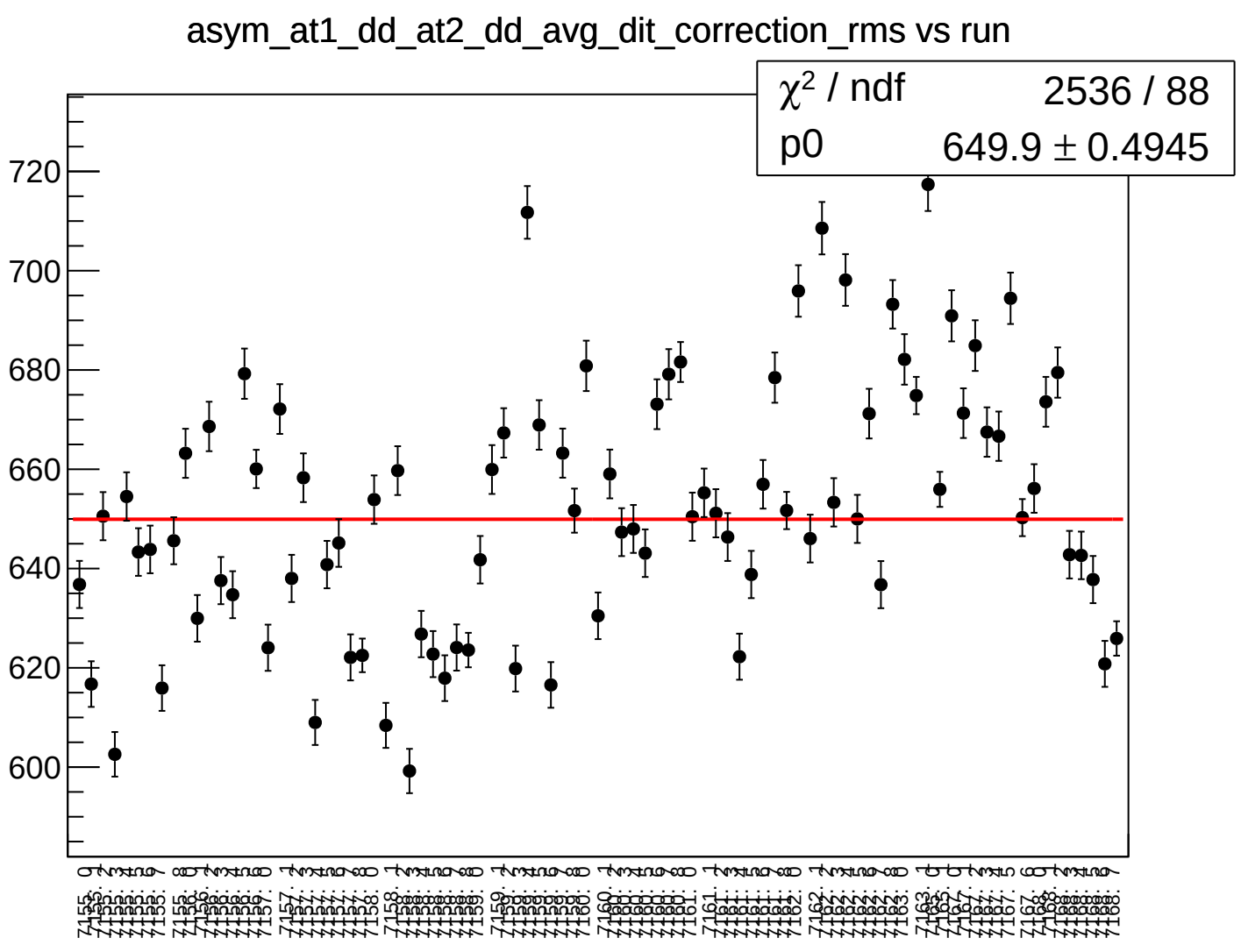

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.23 / 88
p0 1242 ± 1327
pull
Entries 89
Mean −450.1
Std Dev 0

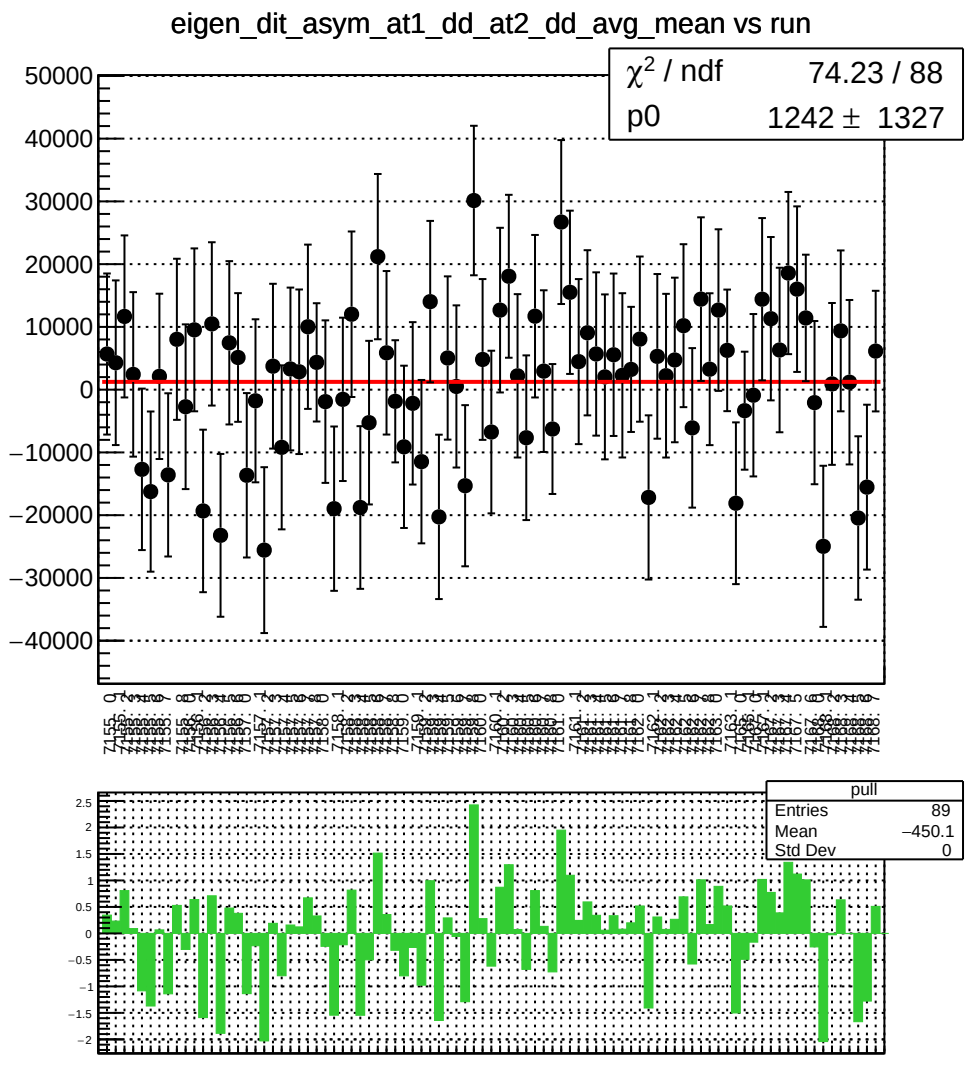

pull1D
Entries 89
Mean −0.007103
Std Dev 0.9132

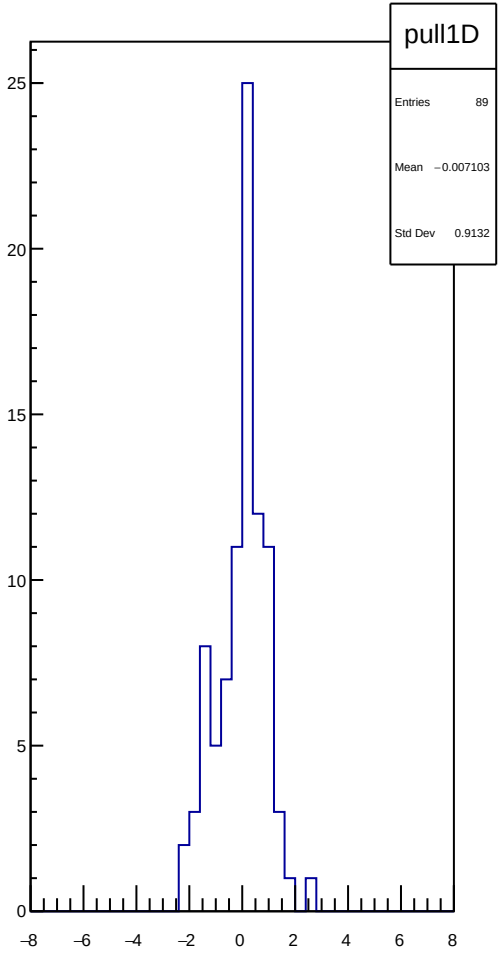

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.7 / 88
p0 1234 ± 0.938
1260
1250
1240
1230
1220
1210
1200

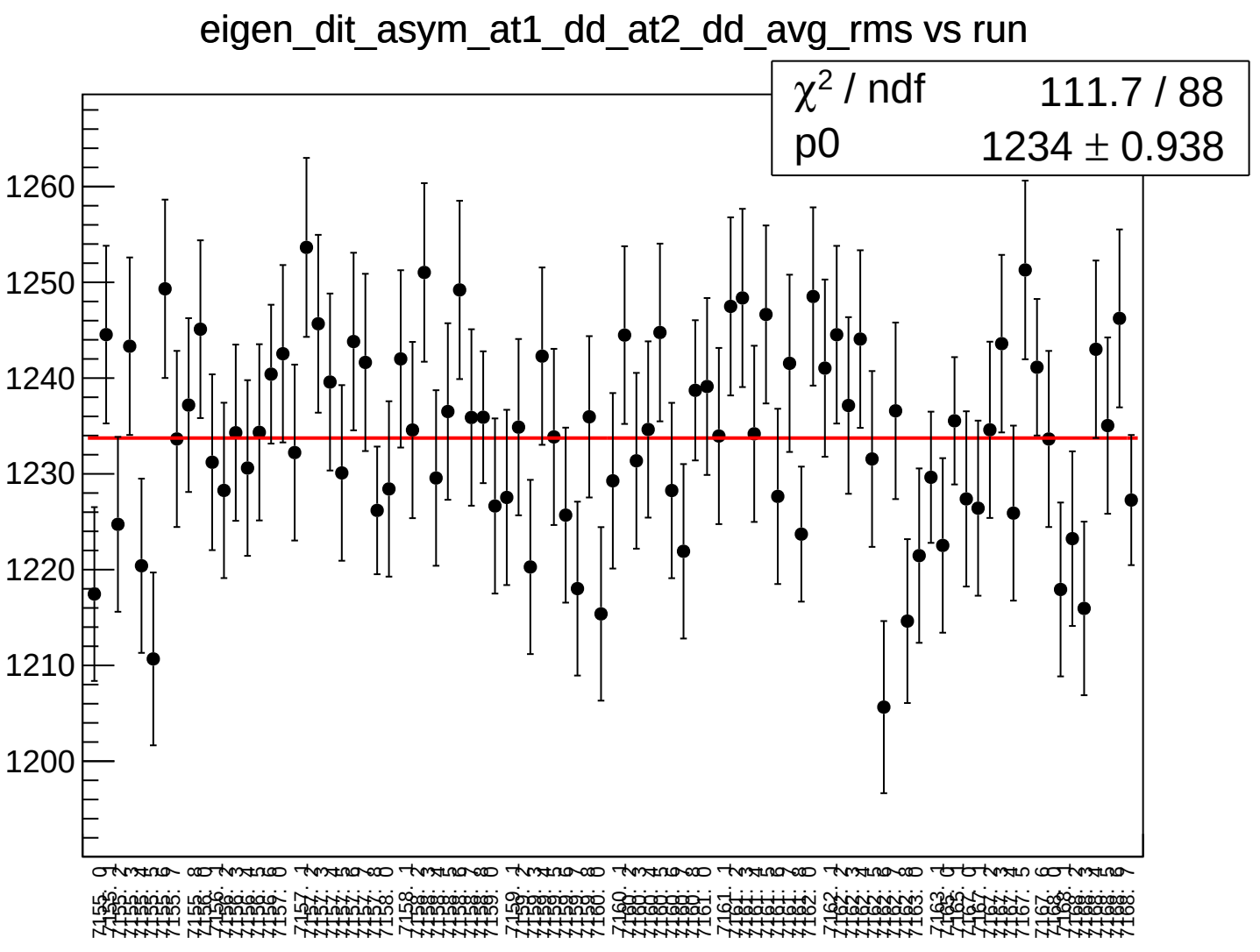

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 74.25 / 88
p0 −427 ± 699.3
pull
Entries 89
Mean −53.08
Std Dev 0

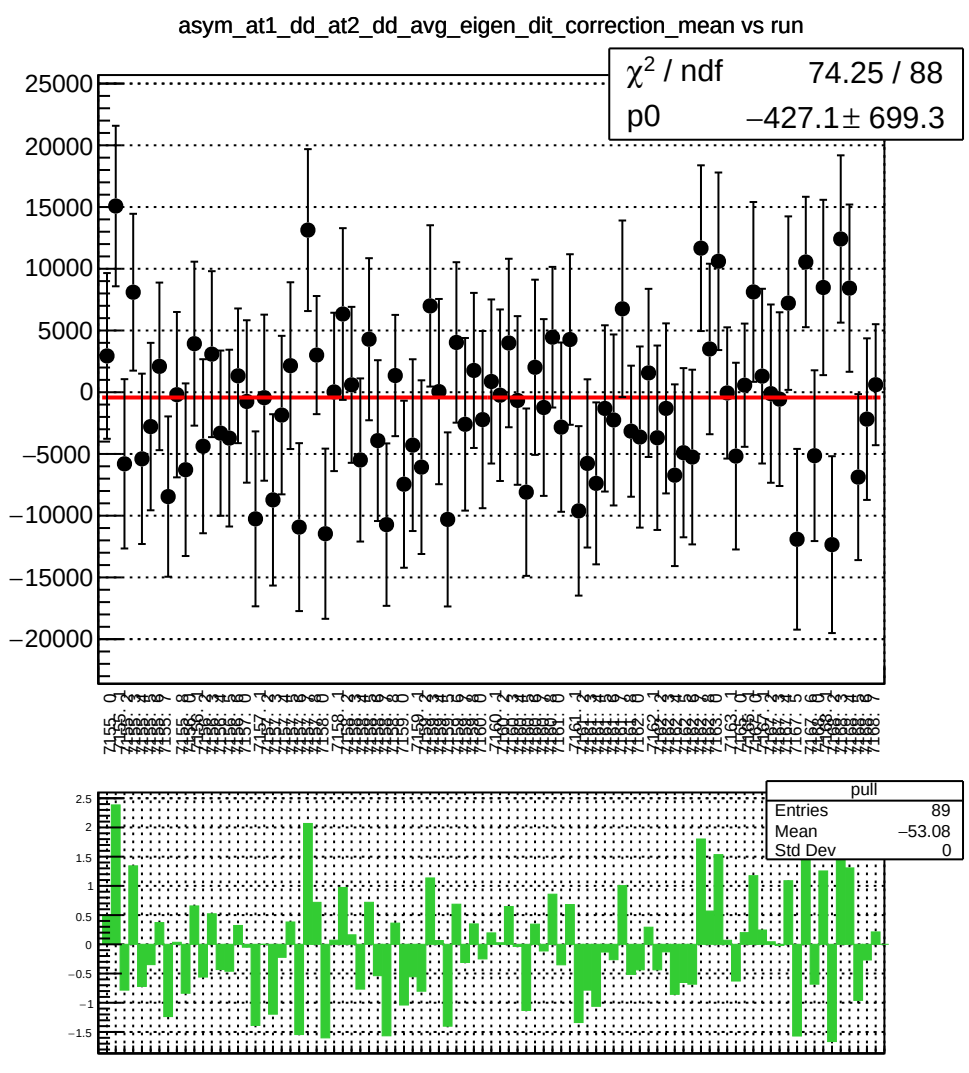

pull1D
Entries 89
Mean −0.02194
Std Dev 0.9131

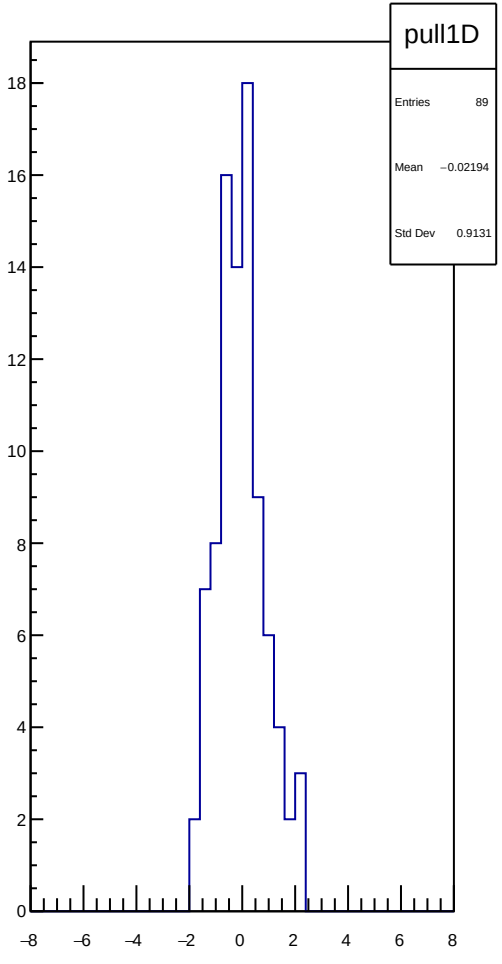

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2536 / 88
p0 649.9 ± 0.4945
720
700
680
660
640
620
600

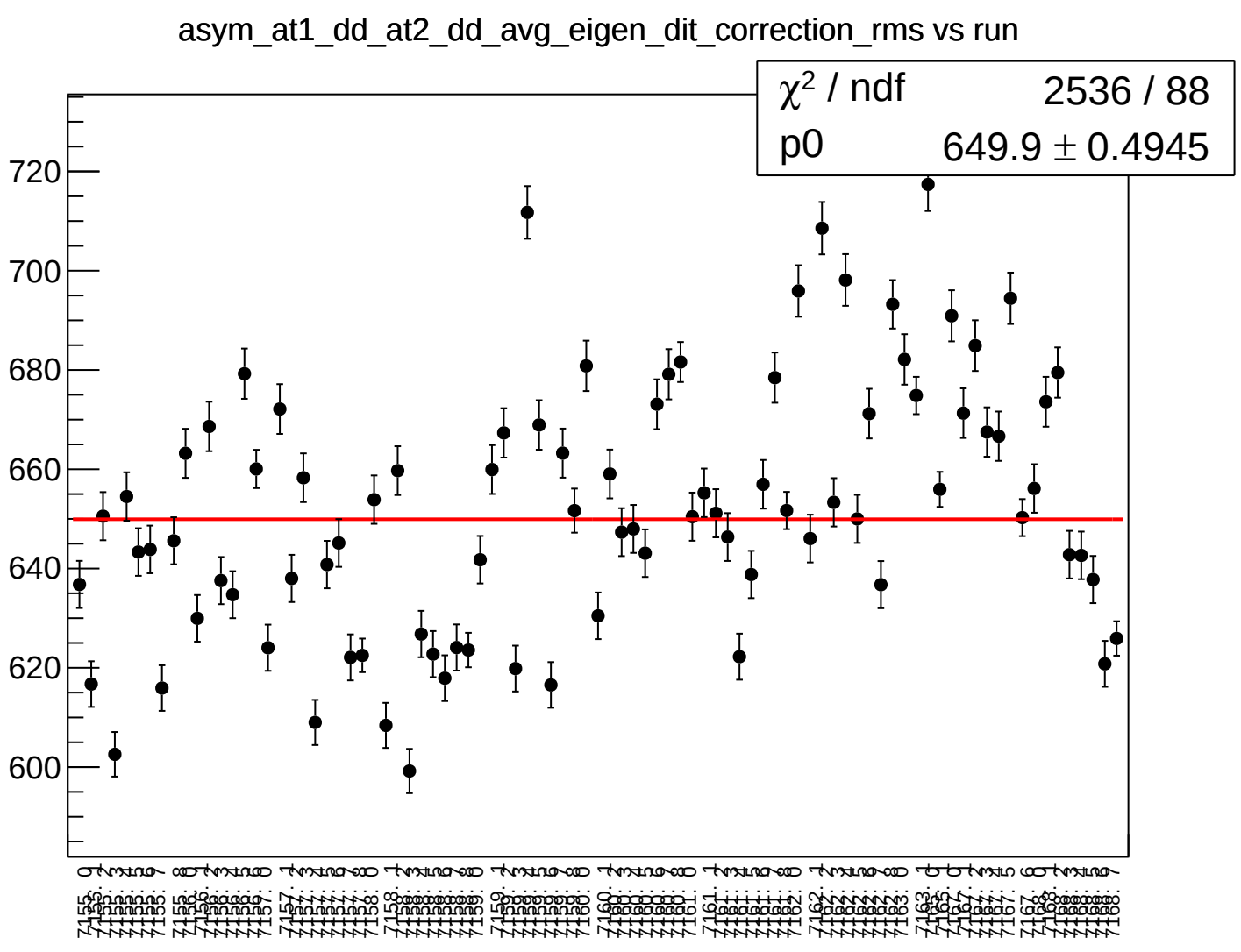

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 74.23 / 88
p0 1242 ± 1327
pull
Entries 89
Mean −450.1
Std Dev 0

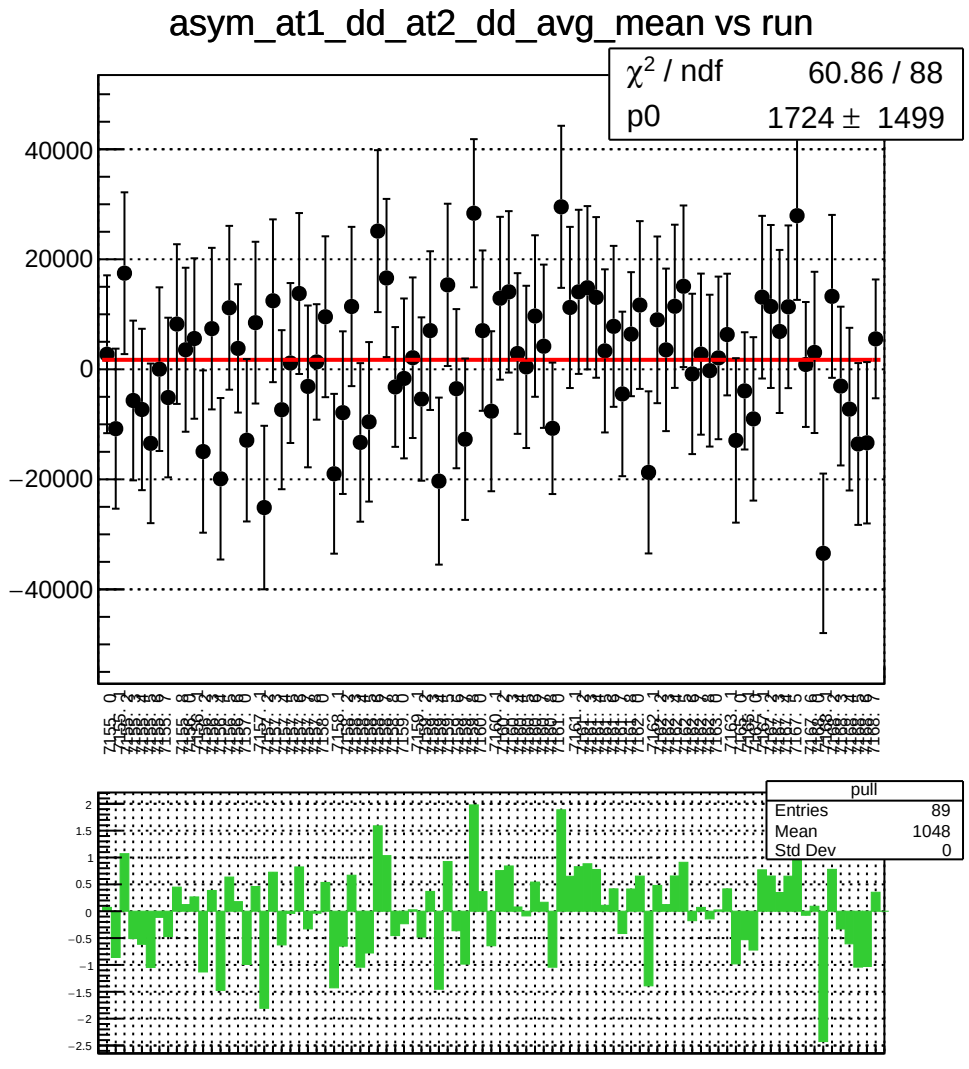

pull1D
Entries 89
Mean −0.007103
Std Dev 0.9132

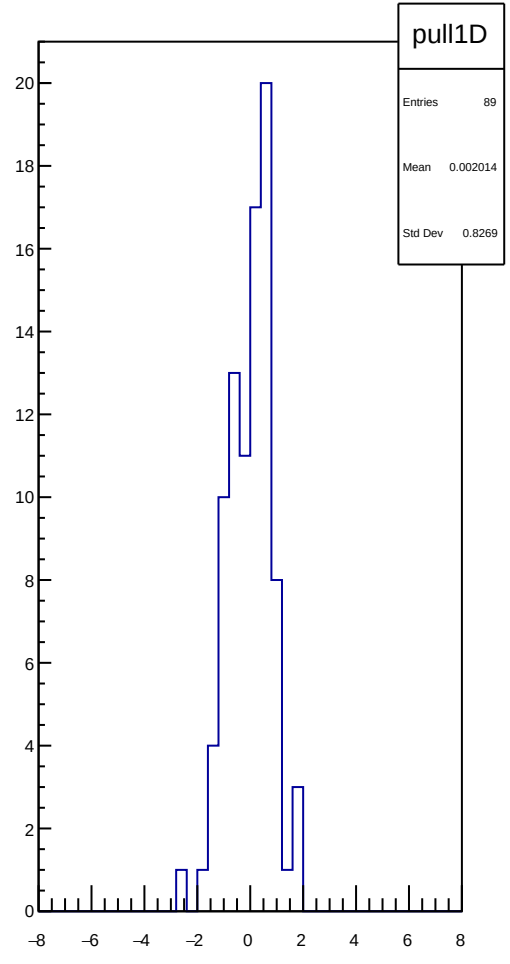

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 111.7 / 88
p0 1234 ± 0.938
1260
1250
1240
1230
1220
1210
1200

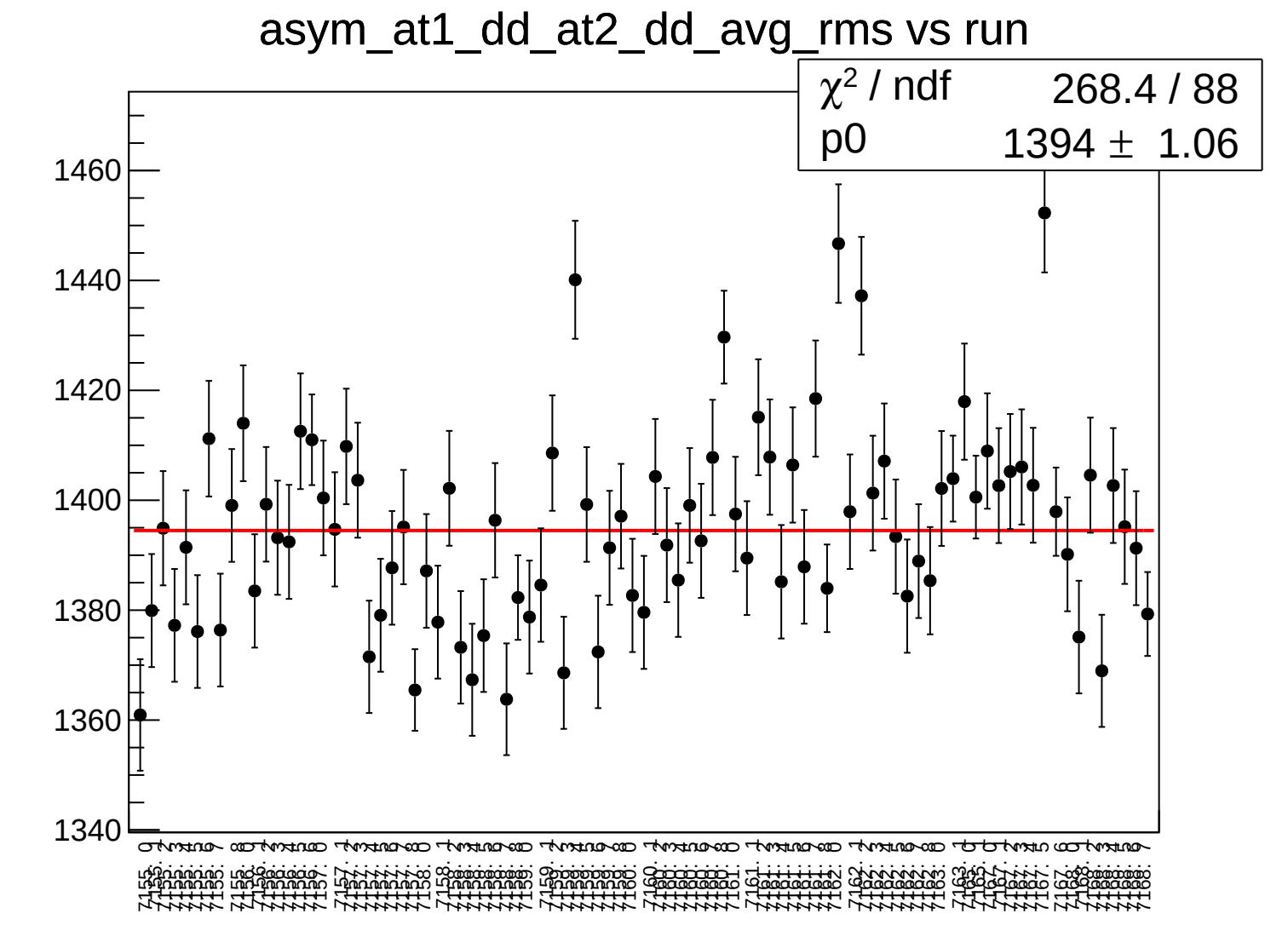

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 74.25 / 88
p0 −427.1± 699.3
pull
Entries 89
Mean −53.08
Std Dev 0

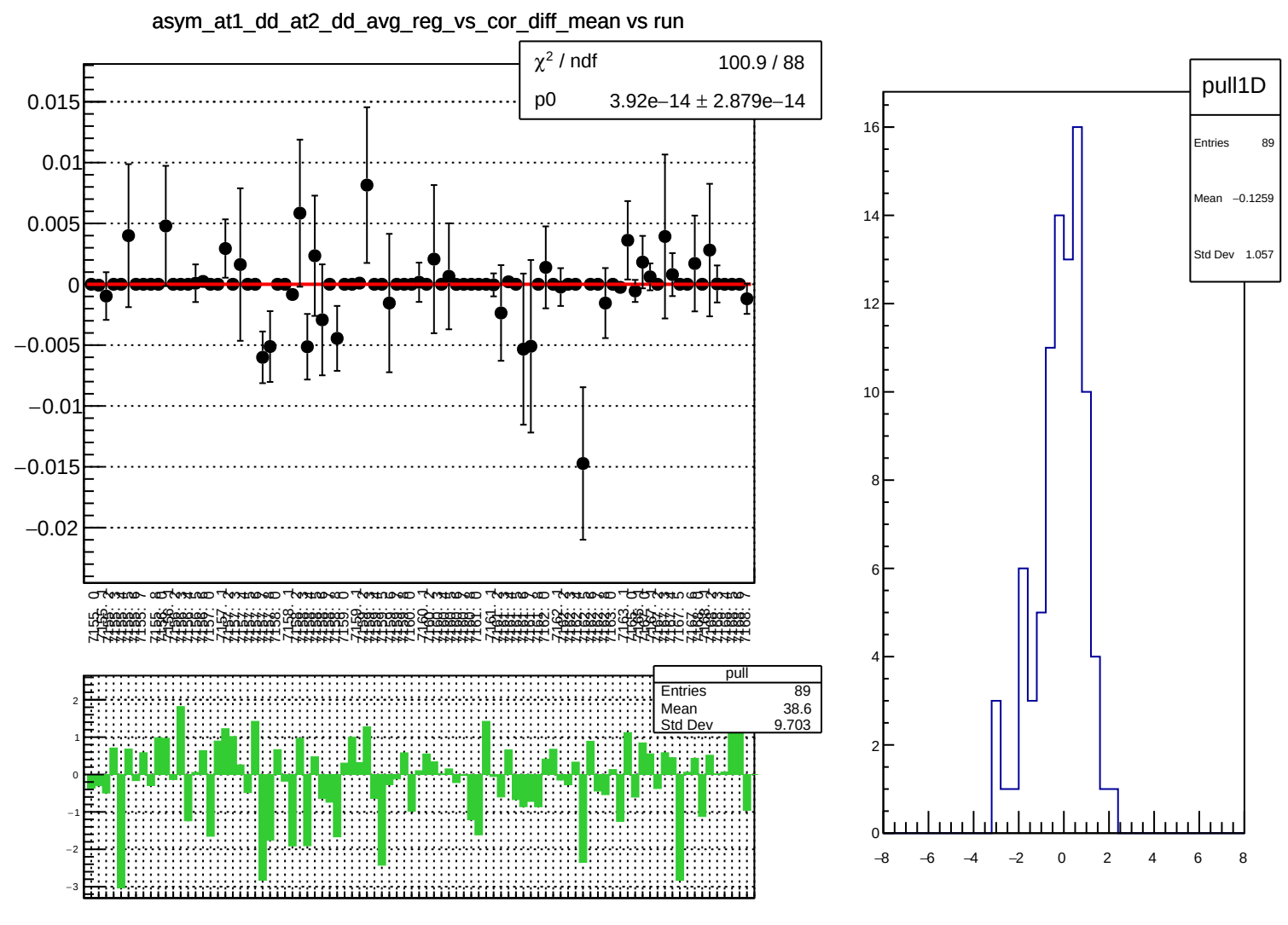

pull1D
Entries 89
Mean −0.02194
Std Dev 0.9131

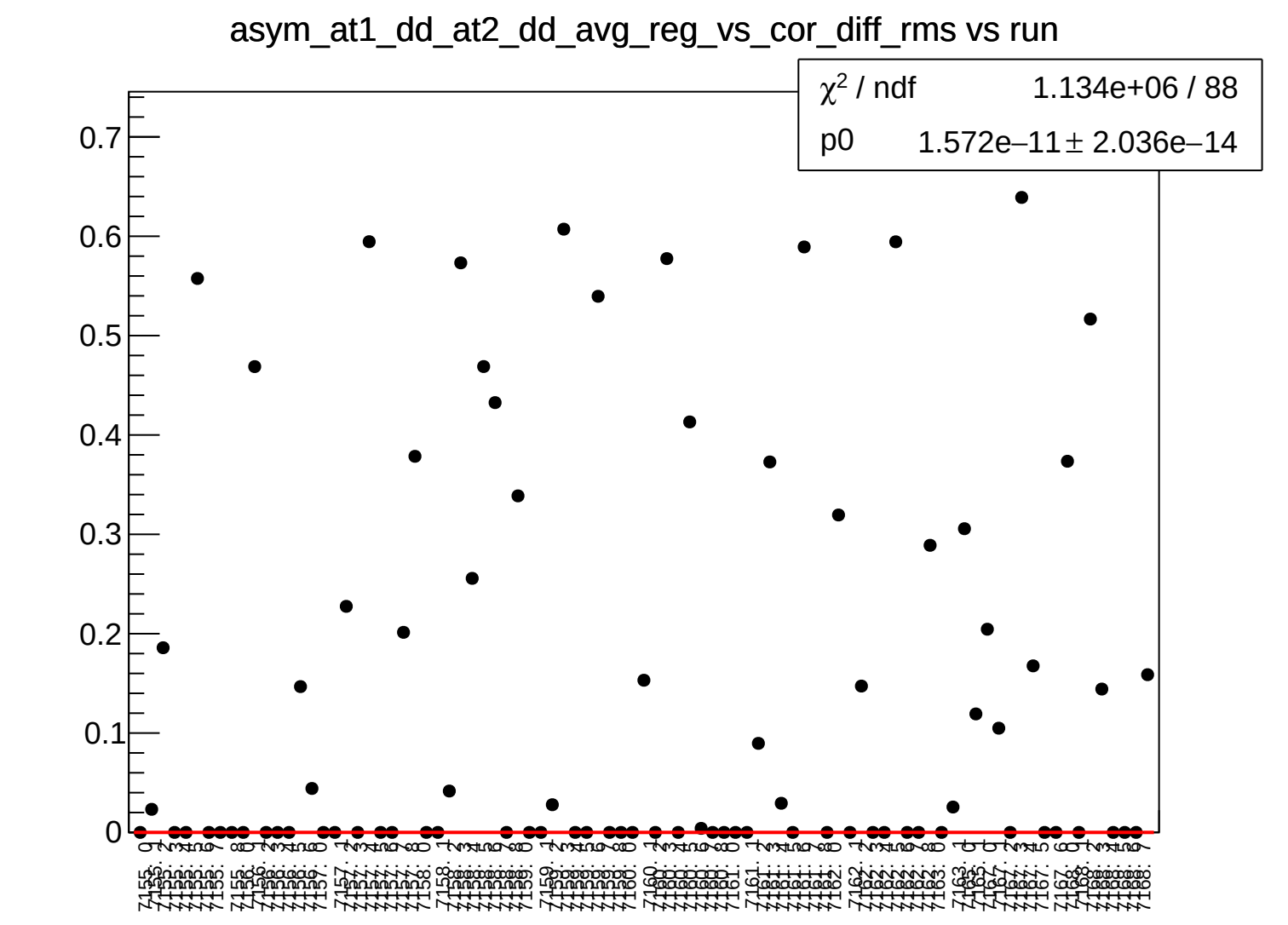

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2536 / 88
p0 649.9 ± 0.4945
720
700
680
660
640
620
600

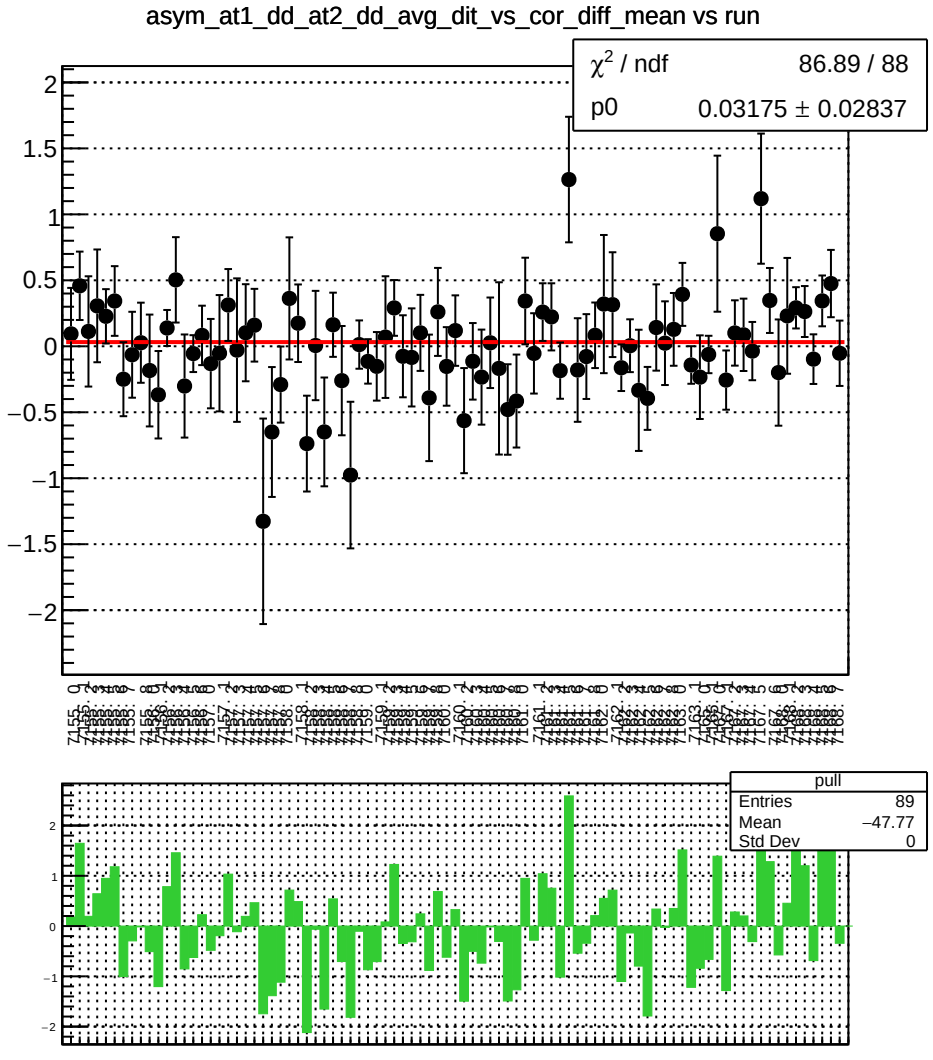

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 60.86 / 88
p0 1724 ± 1499
40000
20000
0
−20000
−40000
pull
Entries 89
Mean 1048
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

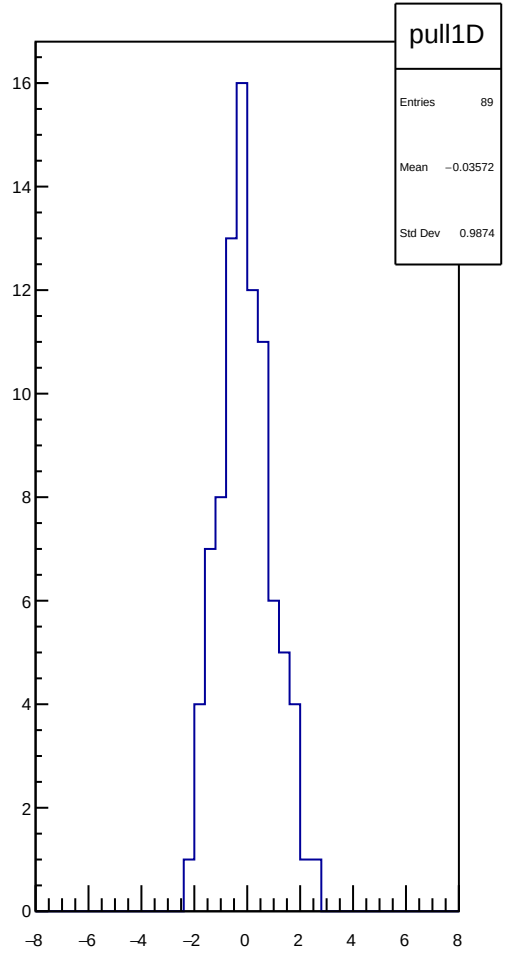

pull1D
Entries 89
Mean 0.002014
Std Dev 0.8269
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

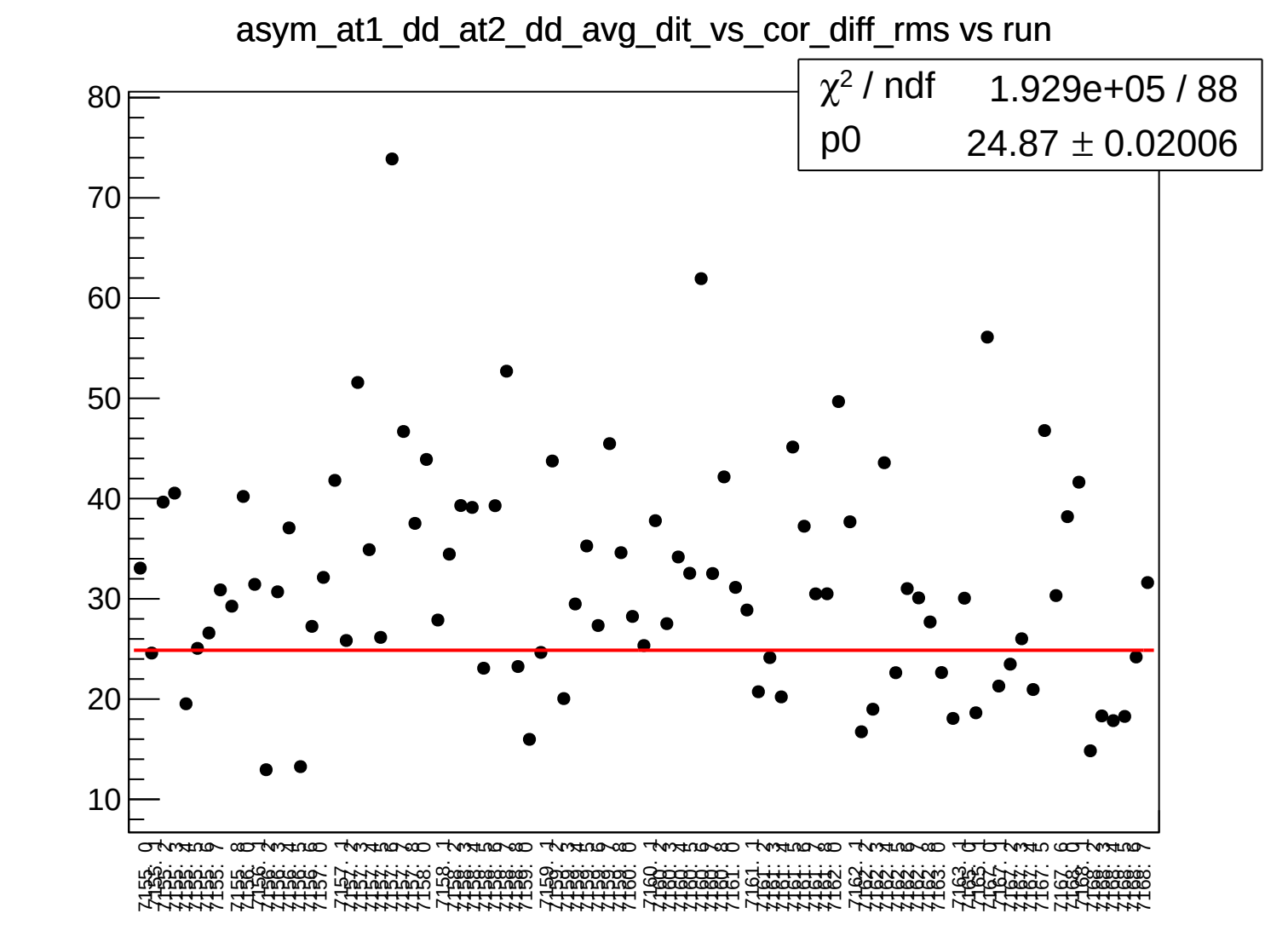

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 268.4 / 88
p0 1394 ± 1.06
1460
1440
1420
1400
1380
1360
1340

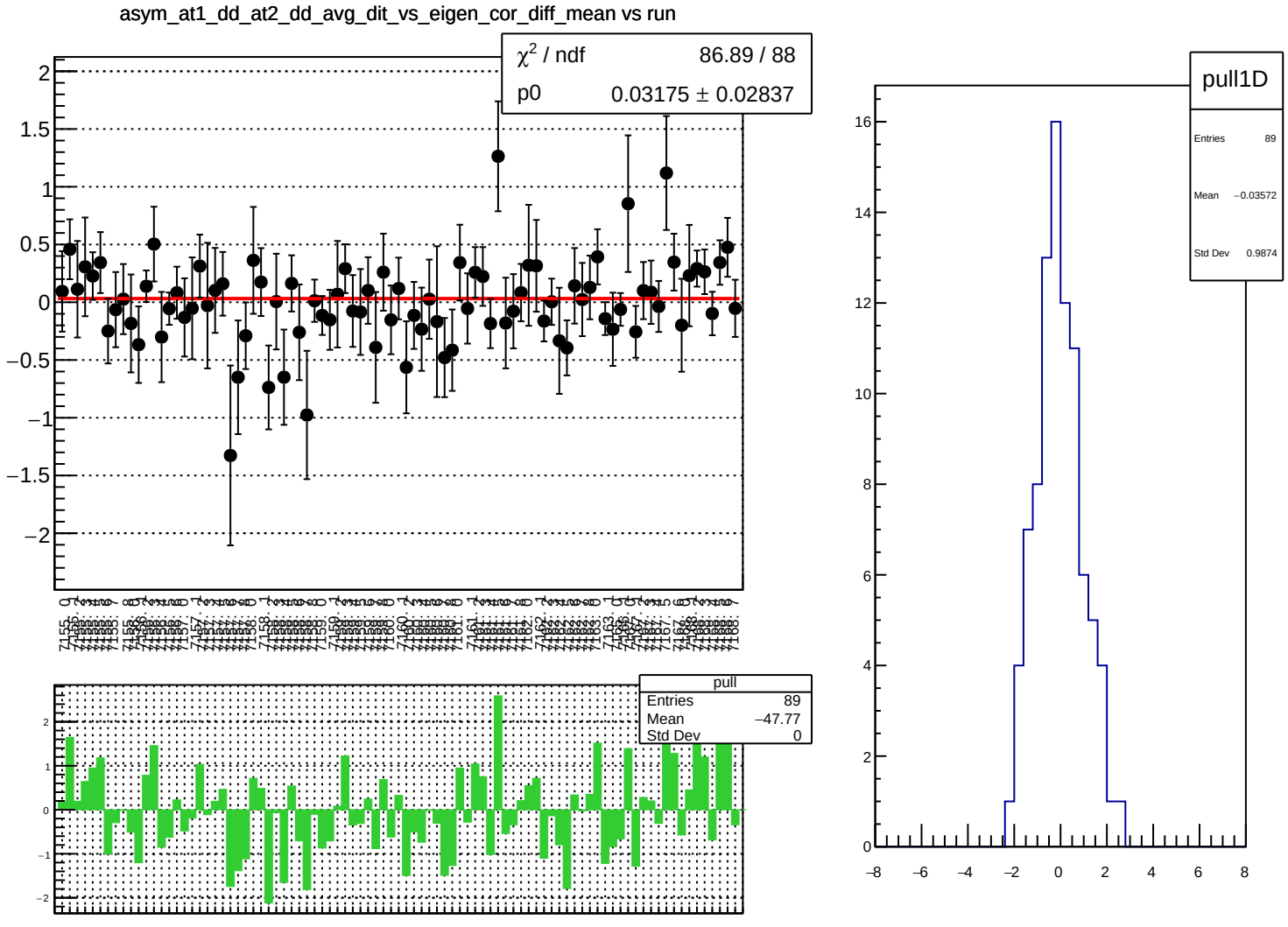

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.9 / 88
p0 3.92e−14 ± 2.879e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 38.6
Std Dev 9.703
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.1259
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

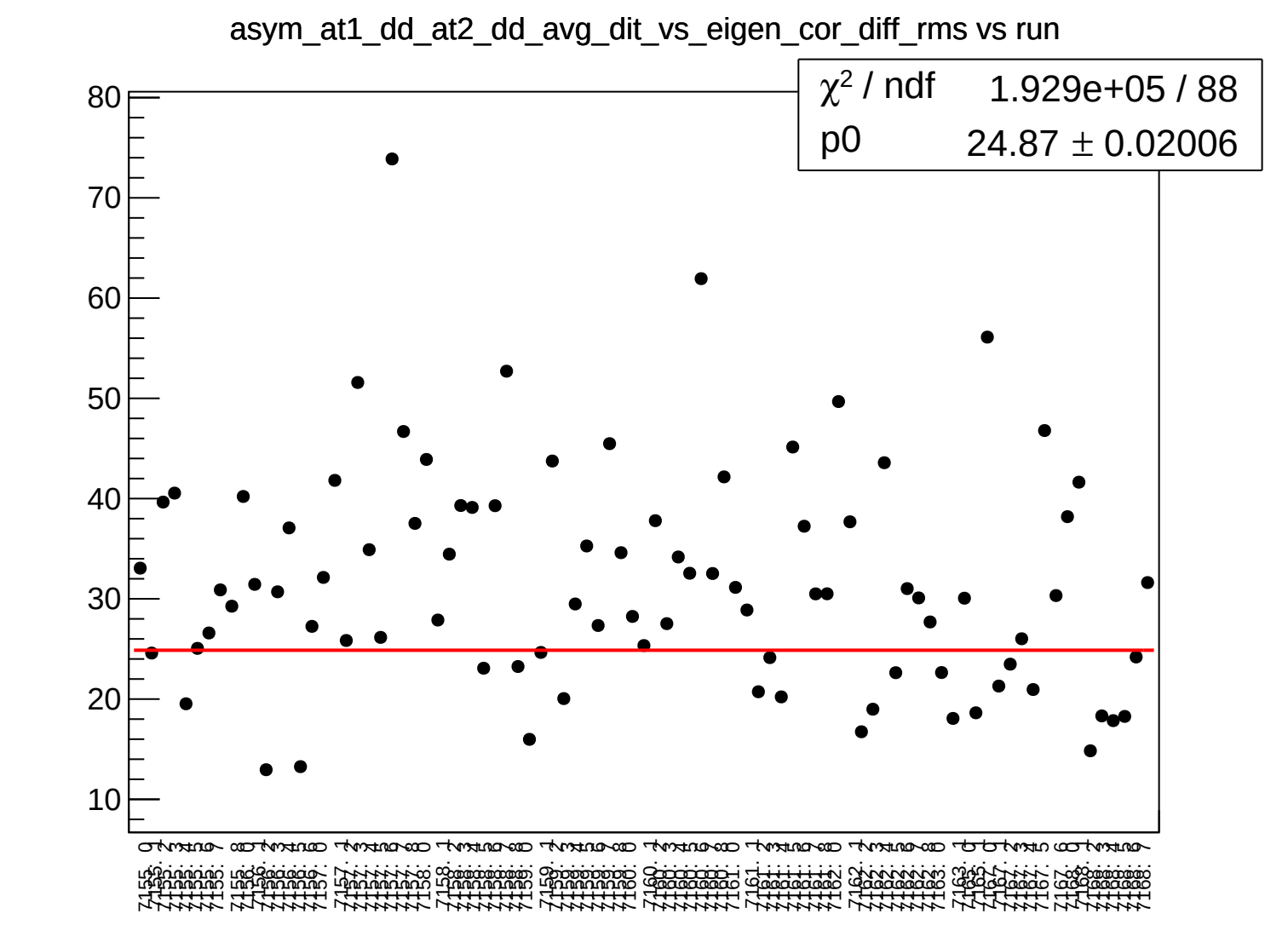

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.134e+06 / 88
p0 1.572e−11 ± 2.036e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

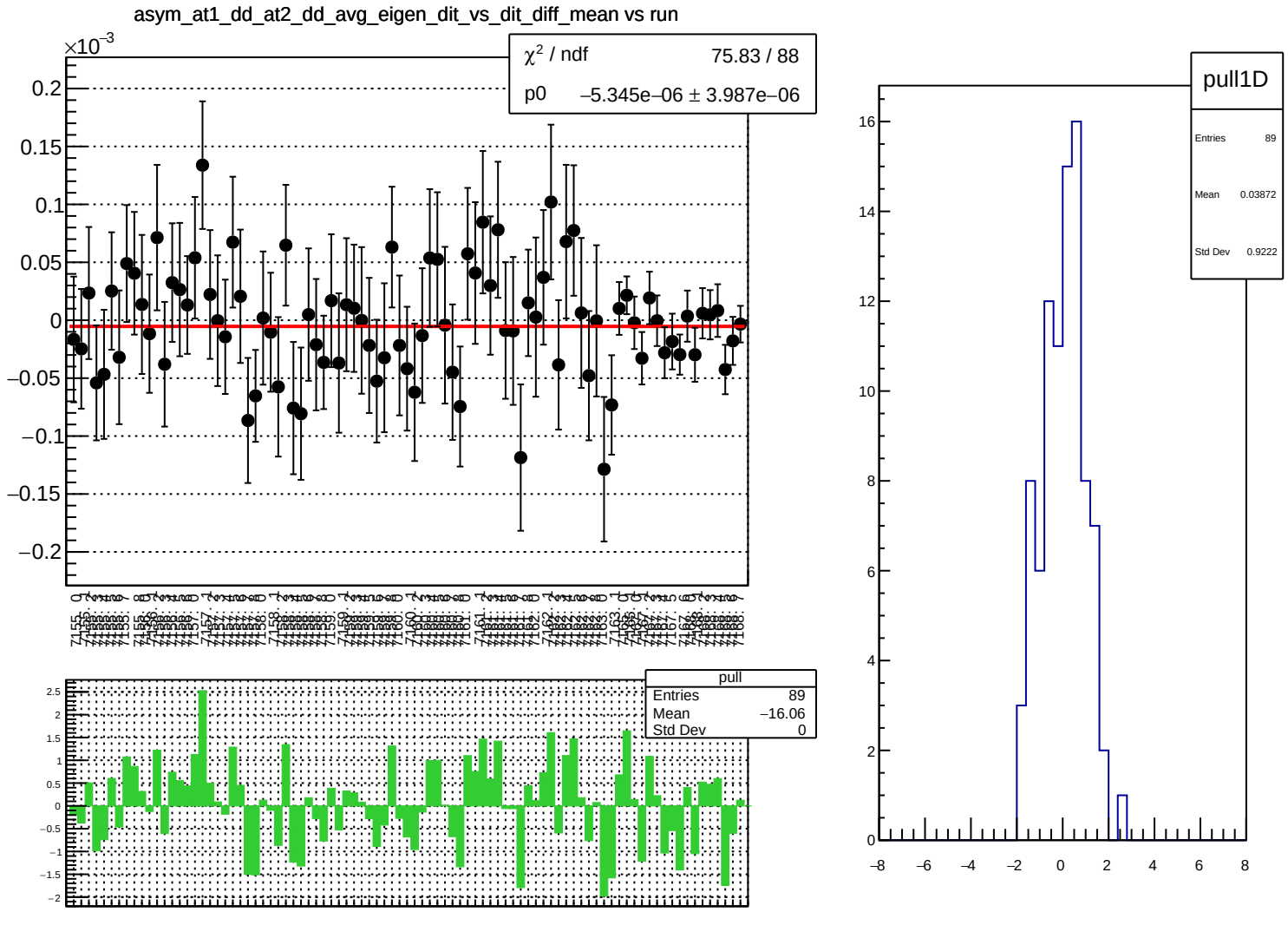

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.77
Std Dev 0

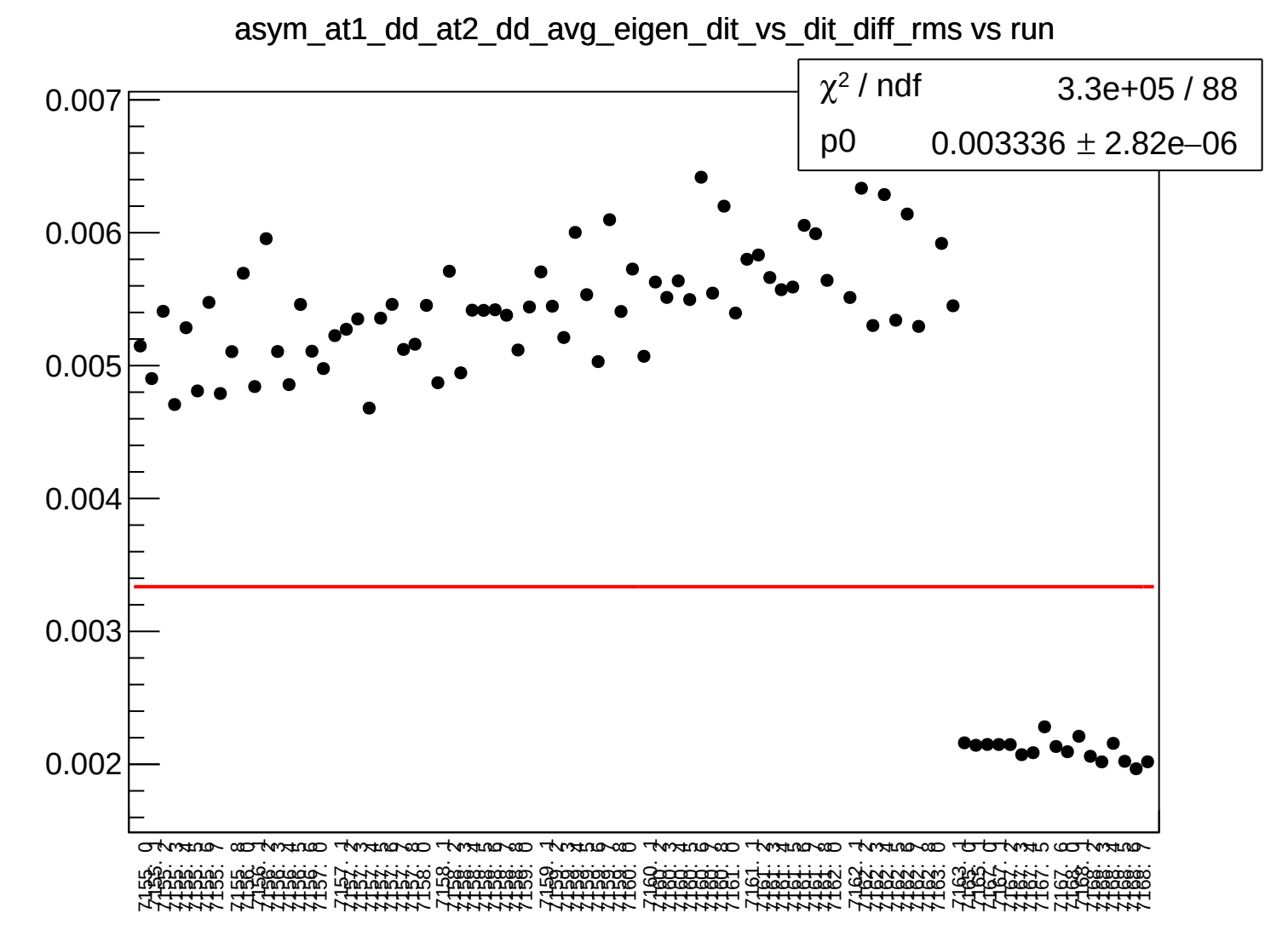

pull1D
Entries 89
Mean −0.03572
Std Dev 0.9874

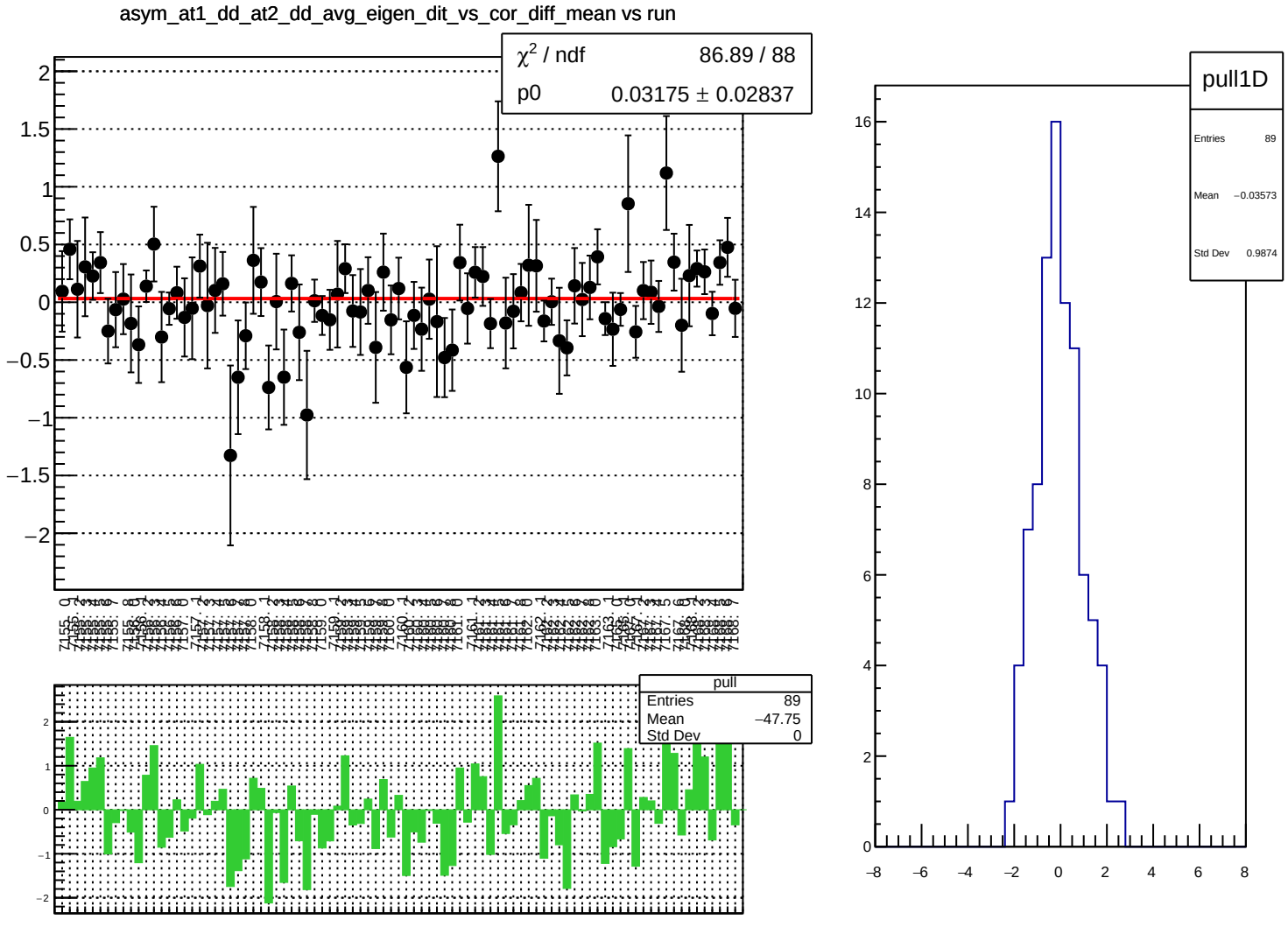

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

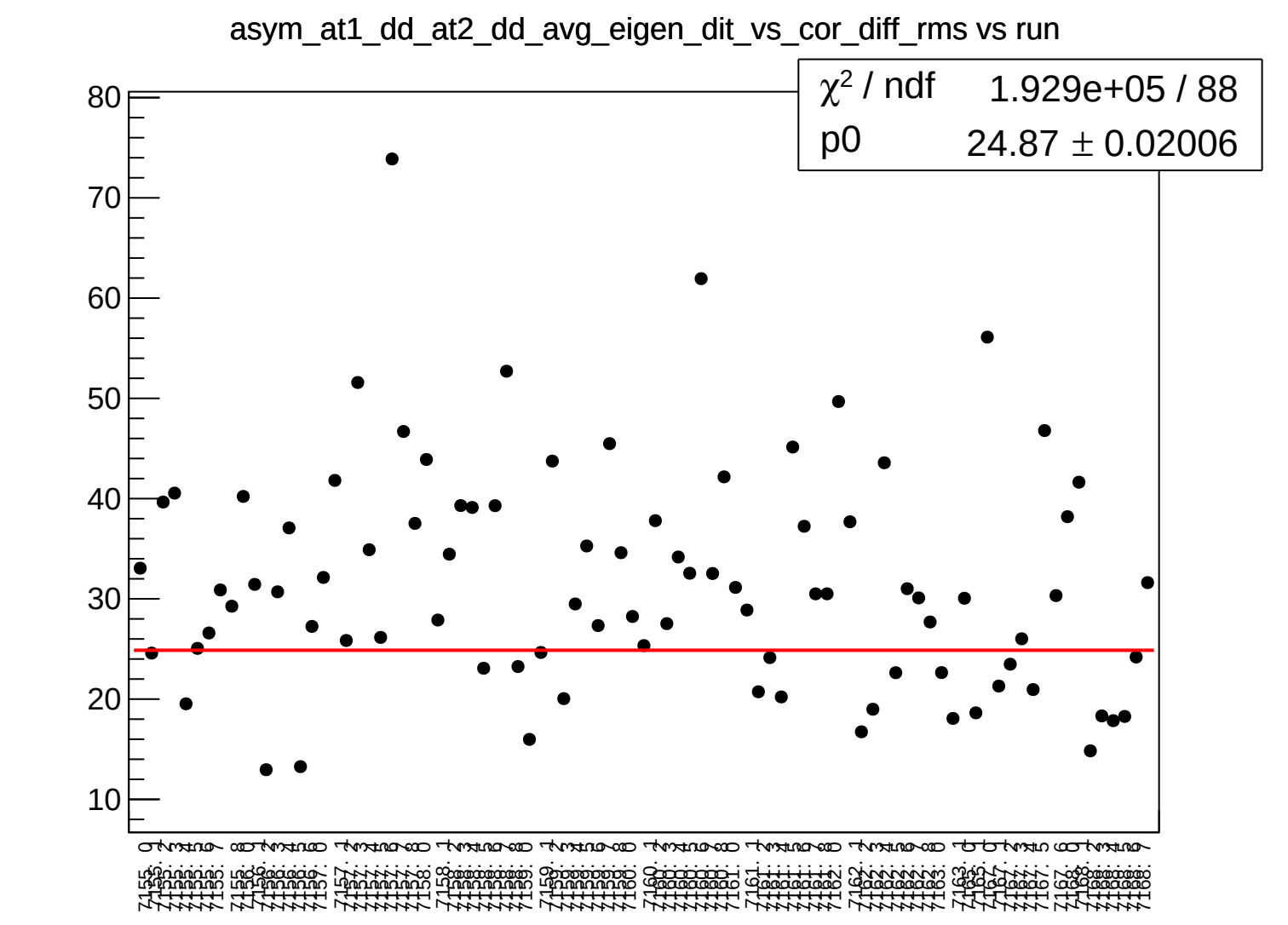

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.77
Std Dev 0
pull1D
Entries 89
Mean −0.03572
Std Dev 0.9874

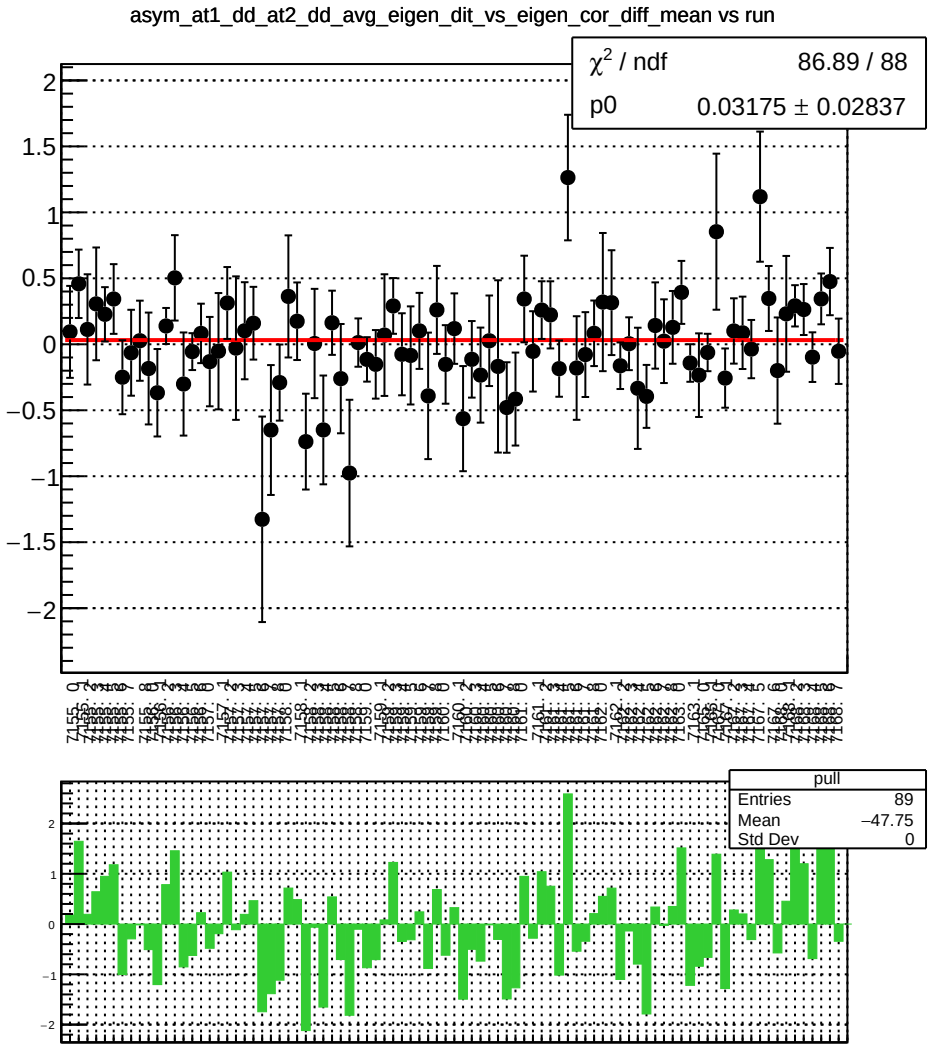

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

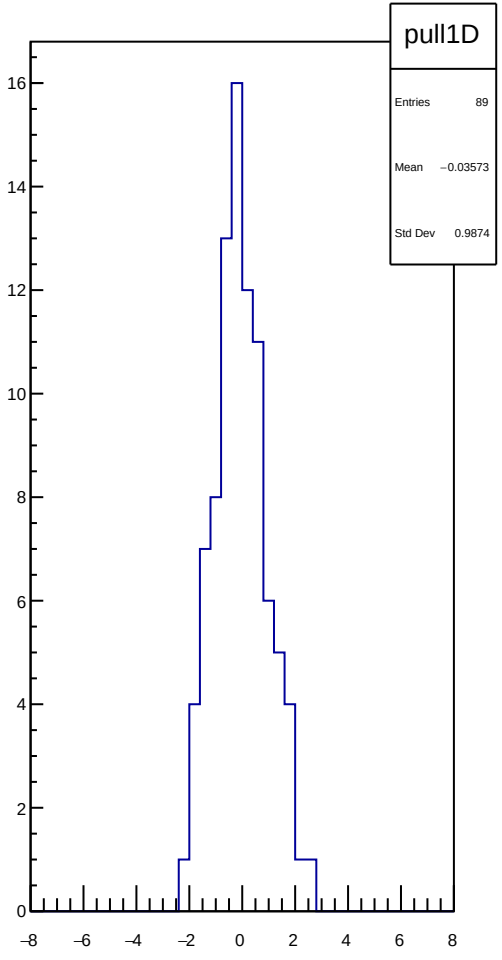

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.83 / 88
p0 −5.345e−06 ± 3.987e−06
pull
Entries 89
Mean −16.06
Std Dev 0
pull1D
Entries 89
Mean 0.03872
Std Dev 0.9222

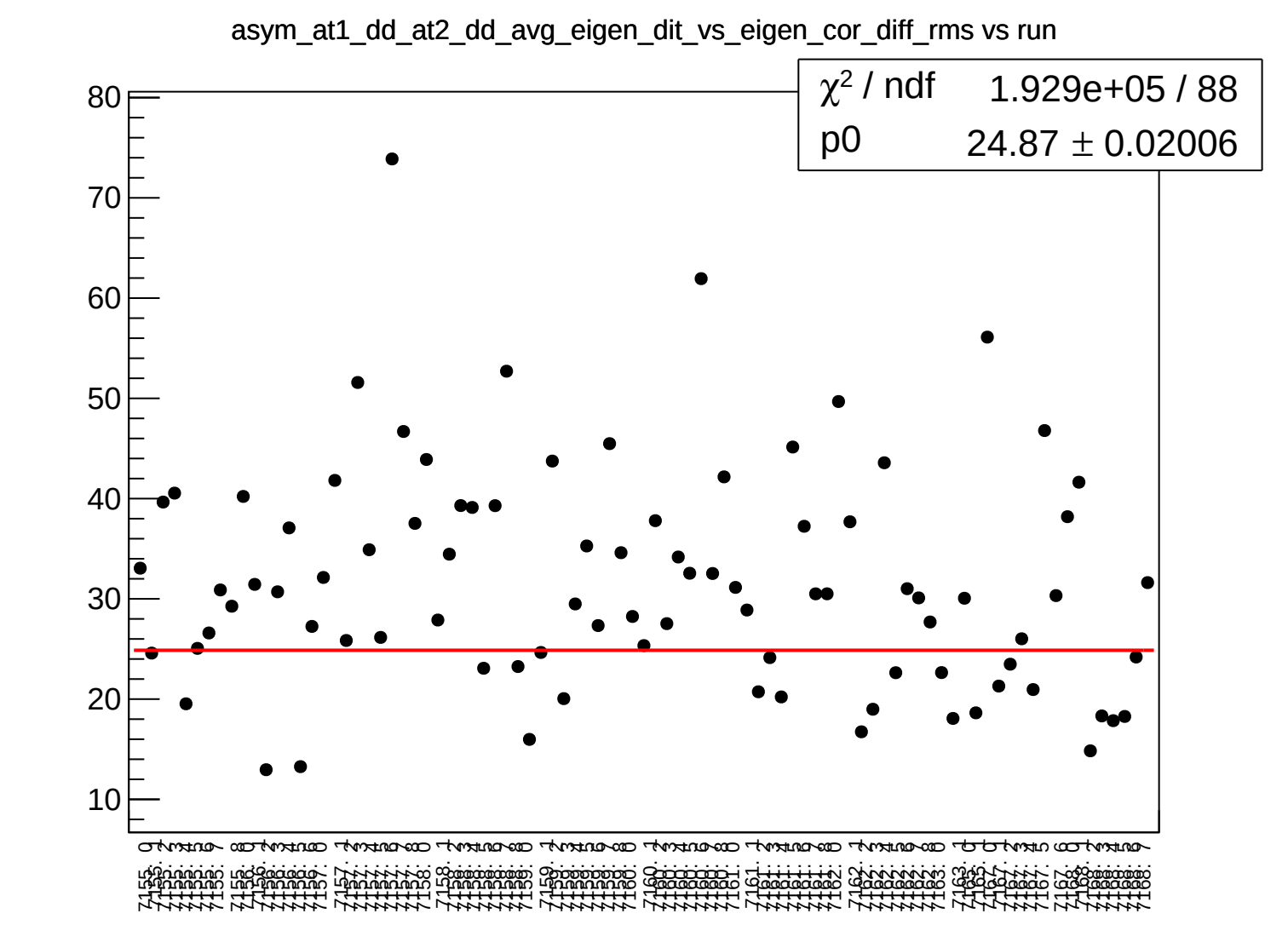

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.3e+05 / 88
p0 0.003336 ± 2.82e−06
0.007
0.006
0.005
0.004
0.003
0.002

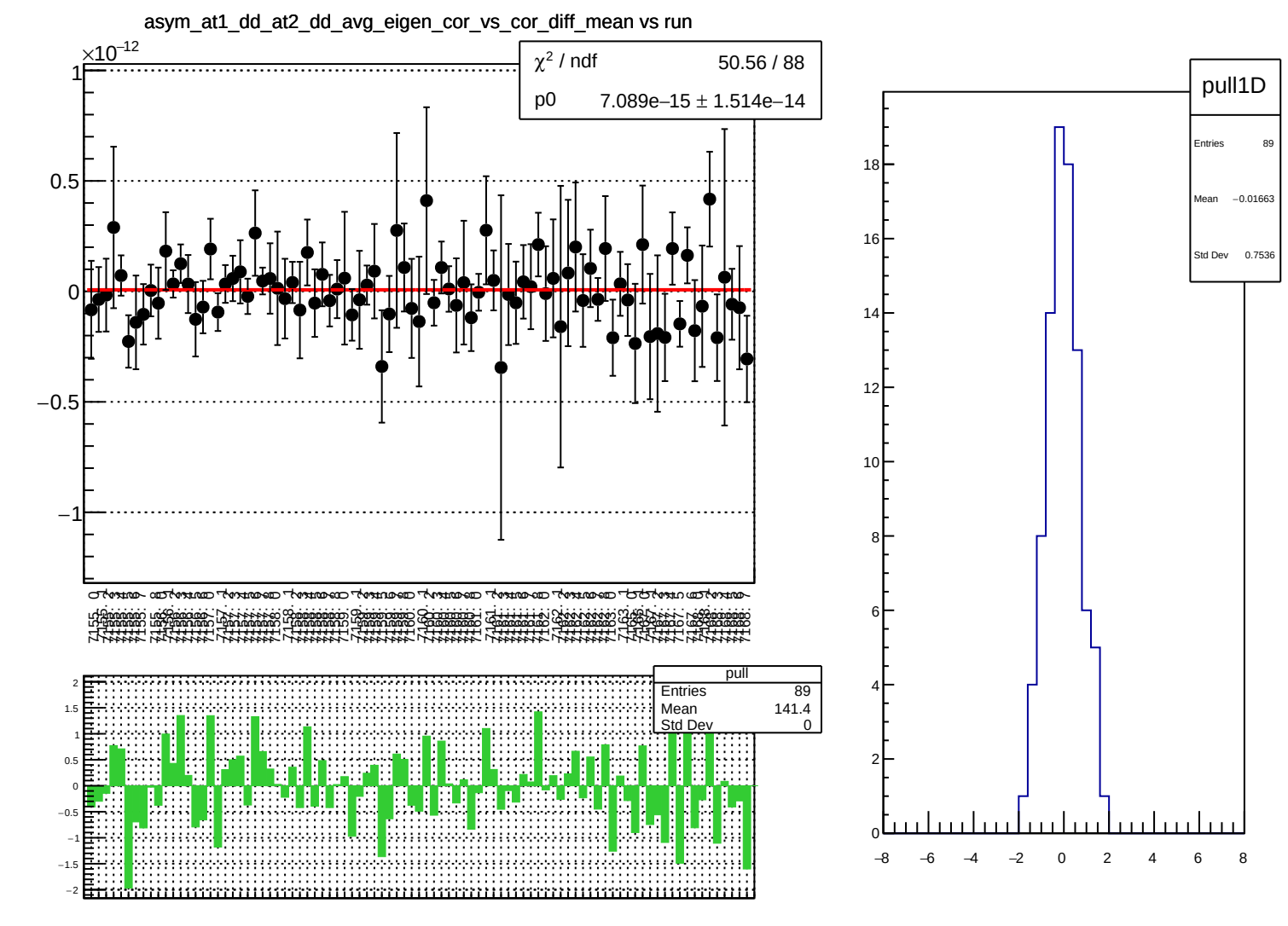

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.75
Std Dev 0
pull1D
Entries 89
Mean −0.03573
Std Dev 0.9874

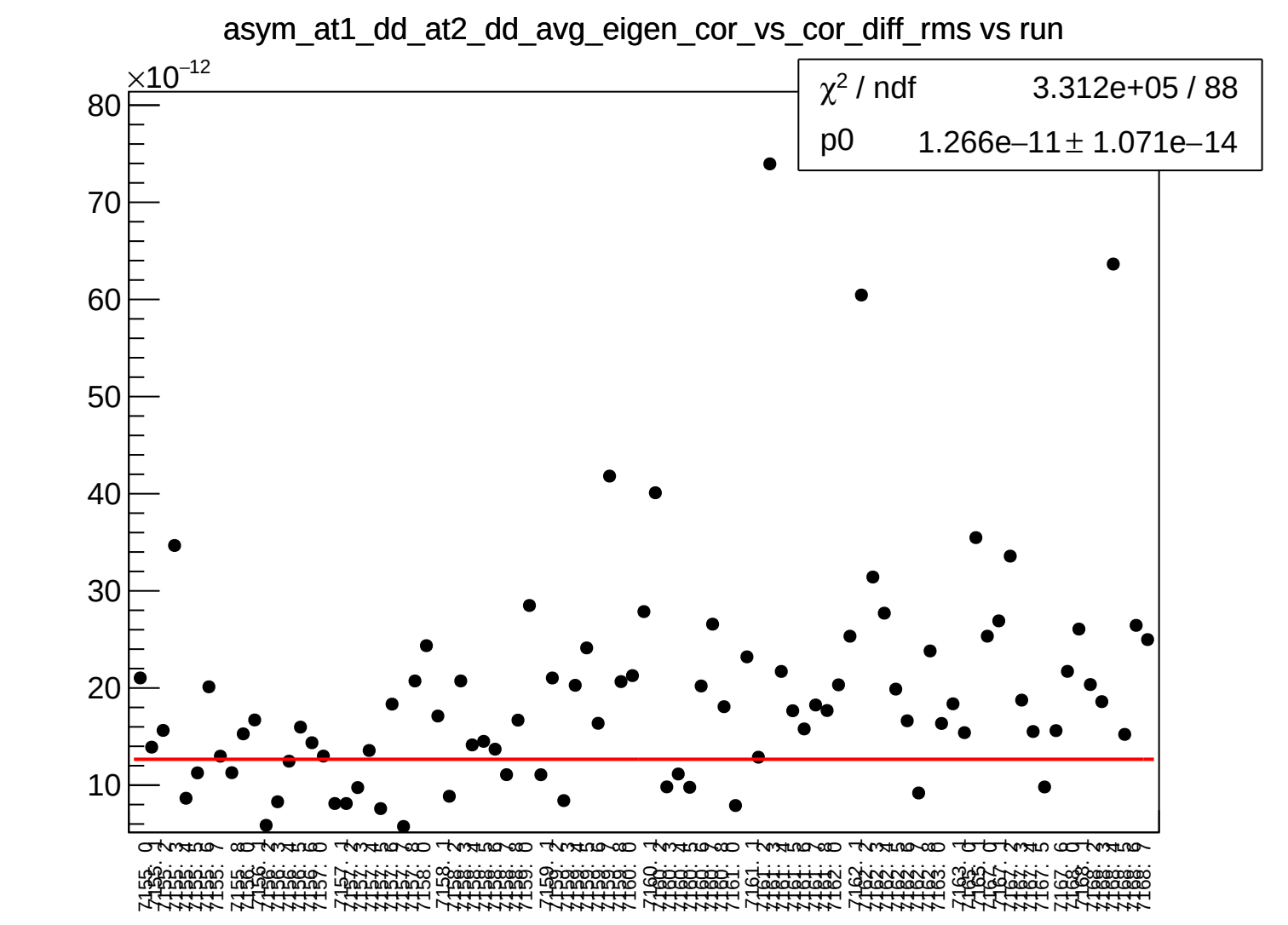

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

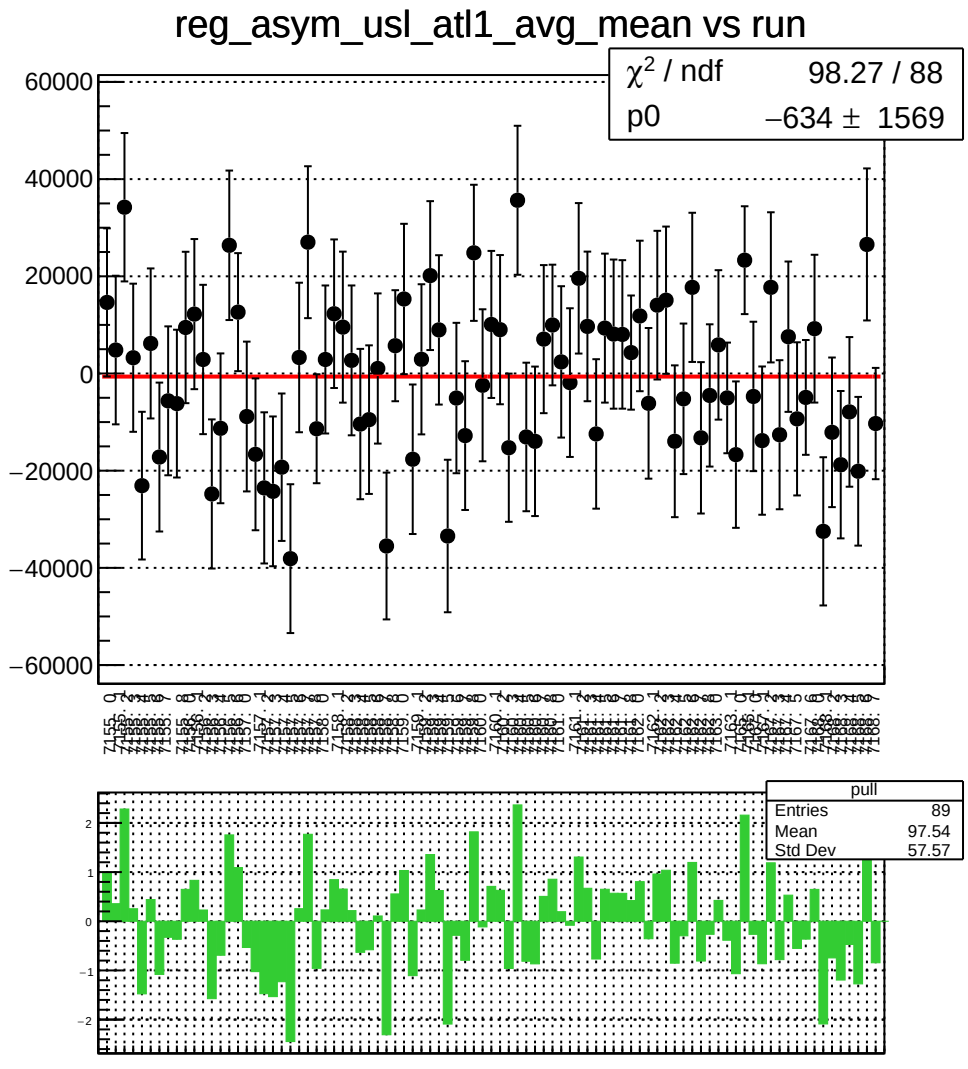

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.89 / 88
p0 0.03175 ± 0.02837
pull
Entries 89
Mean −47.75
Std Dev 0

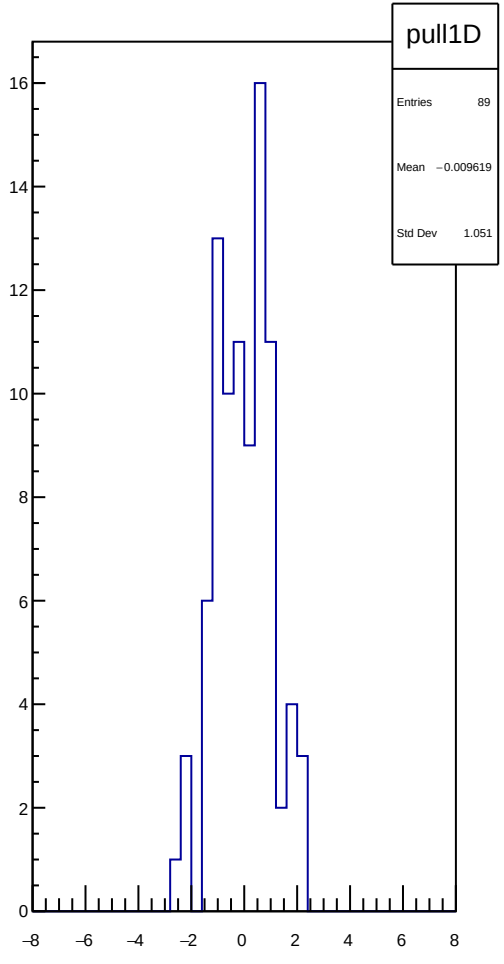

pull1D
Entries 89
Mean −0.03573
Std Dev 0.9874

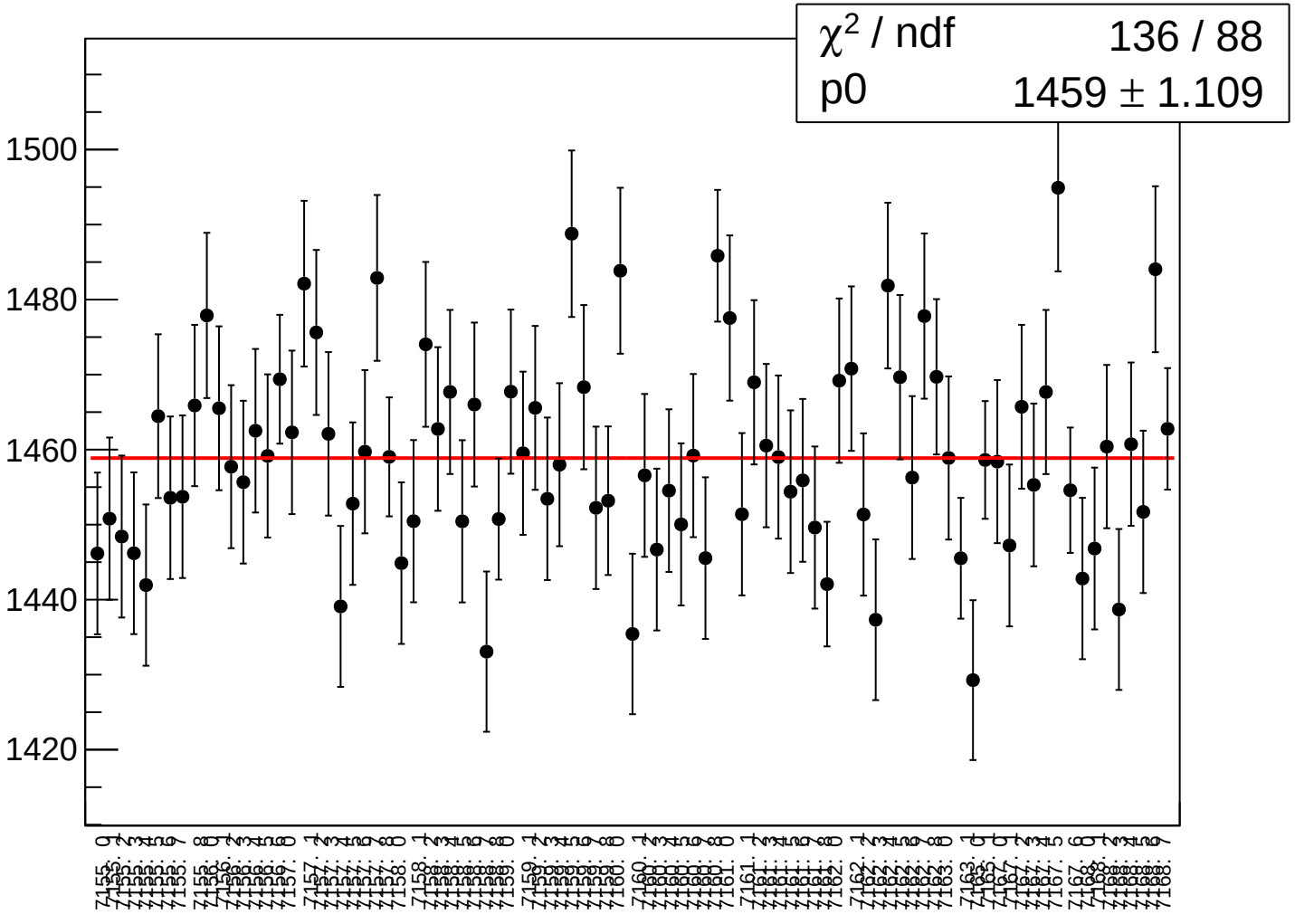

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.929e+05 / 88
p0 24.87 ± 0.02006
80
70
60
50
40
30
20
10

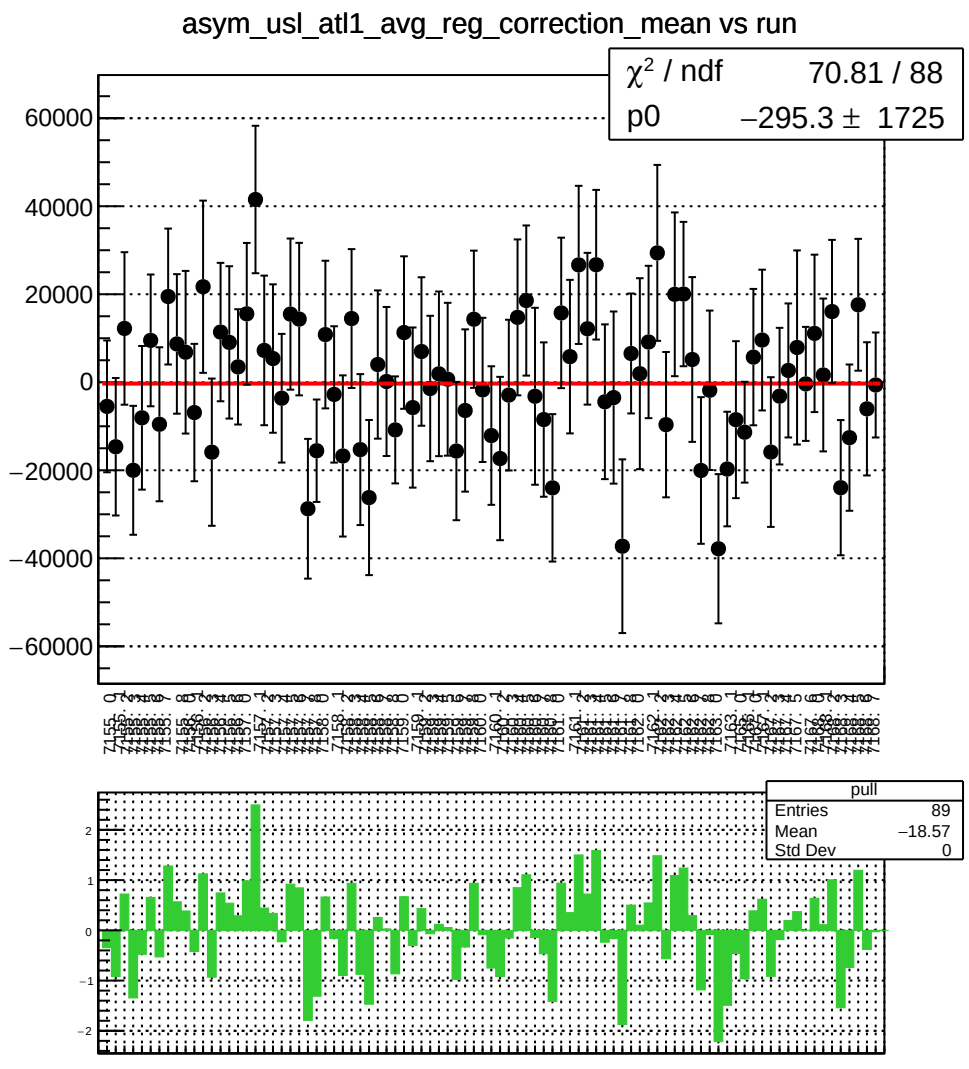

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 50.56 / 88
p0 7.089e−15 ± 1.514e−14
pull
Entries 89
Mean 141.4
Std Dev 0
pull1D
Entries 89
Mean −0.01663
Std Dev 0.7536

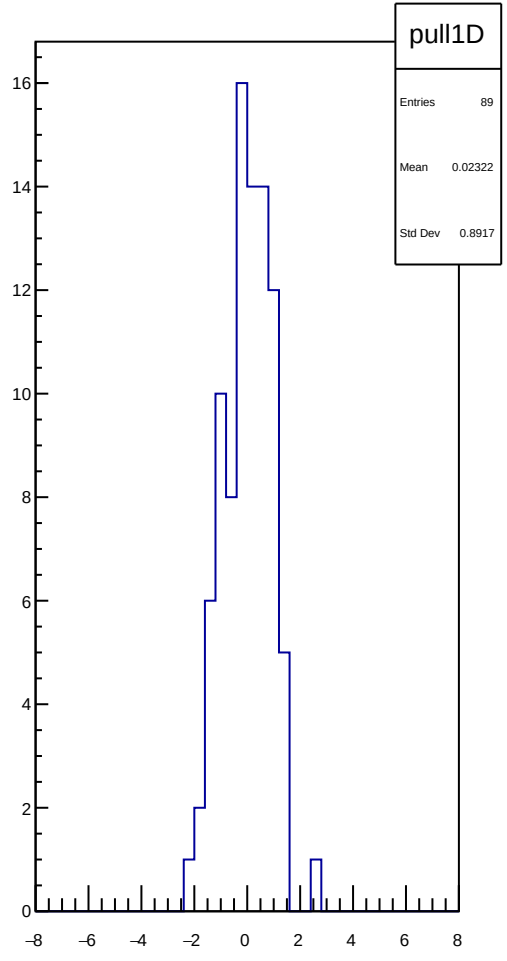

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 3.312e+05 / 88
p0 1.266e−11 ± 1.071e−14

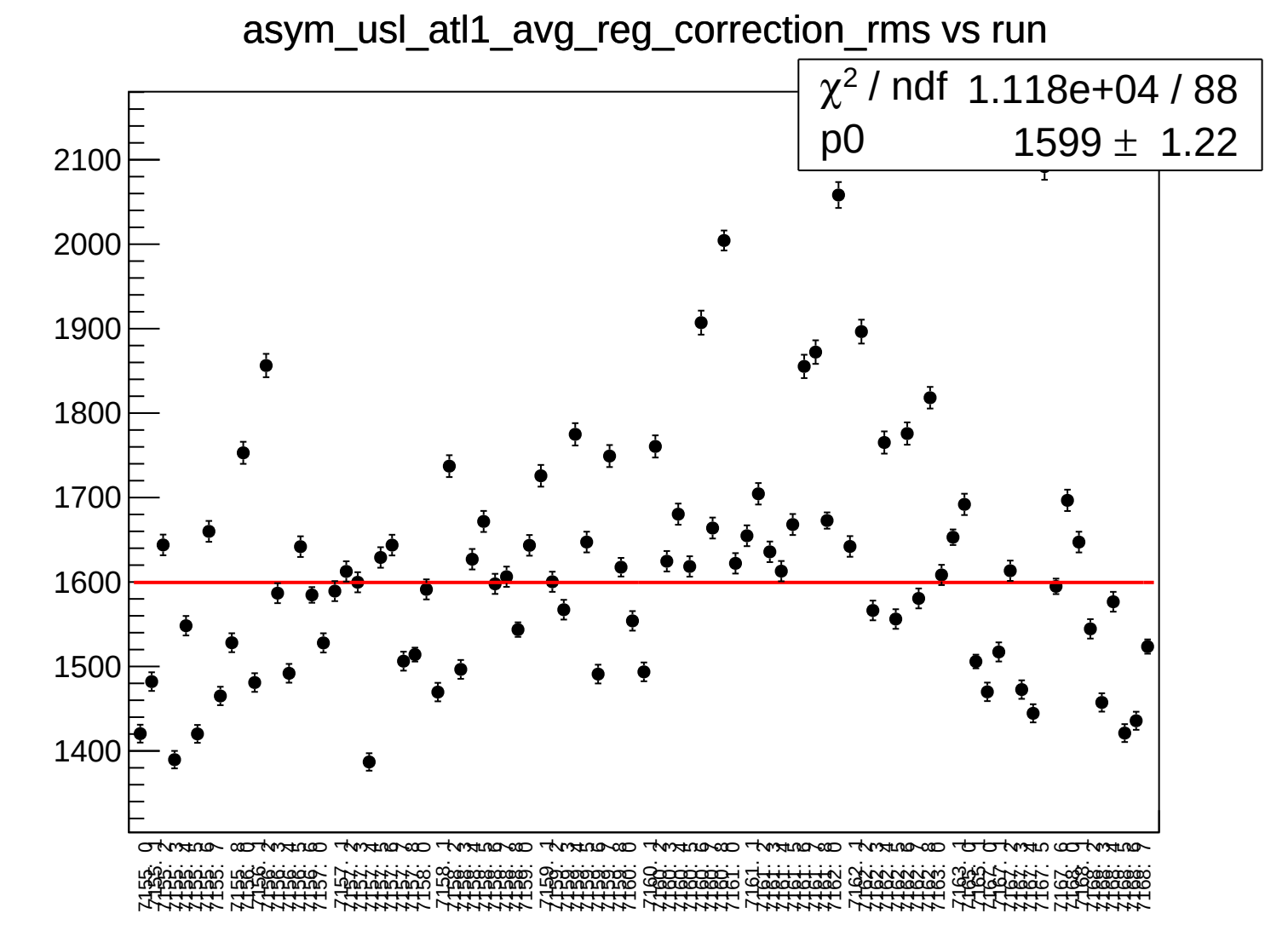

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.27 / 88
p0 −634 ± 1569
pull
Entries 89
Mean 97.54
Std Dev 57.57

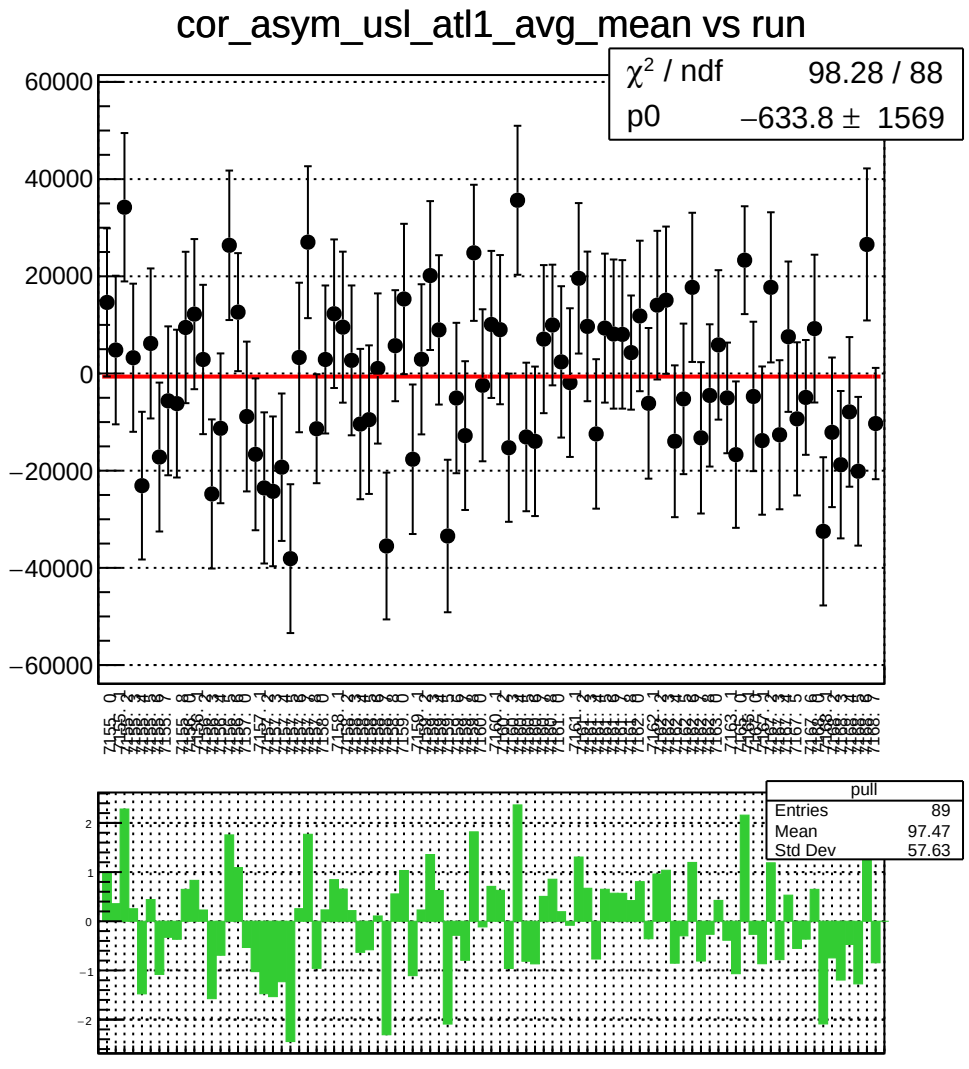

pull1D
Entries 89
Mean −0.009619
Std Dev 1.051

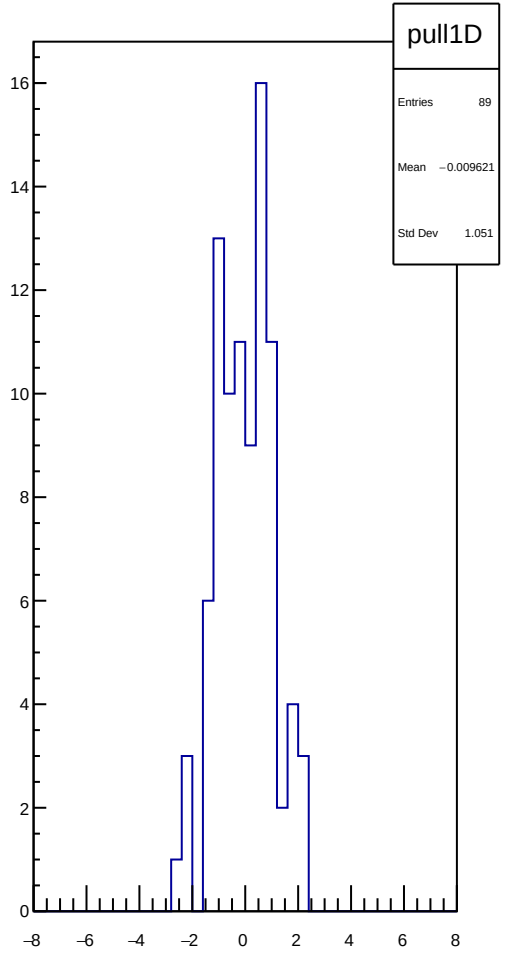

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 136 / 88
p0 1459 ± 1.109
1500
1480
1460
1440
1420

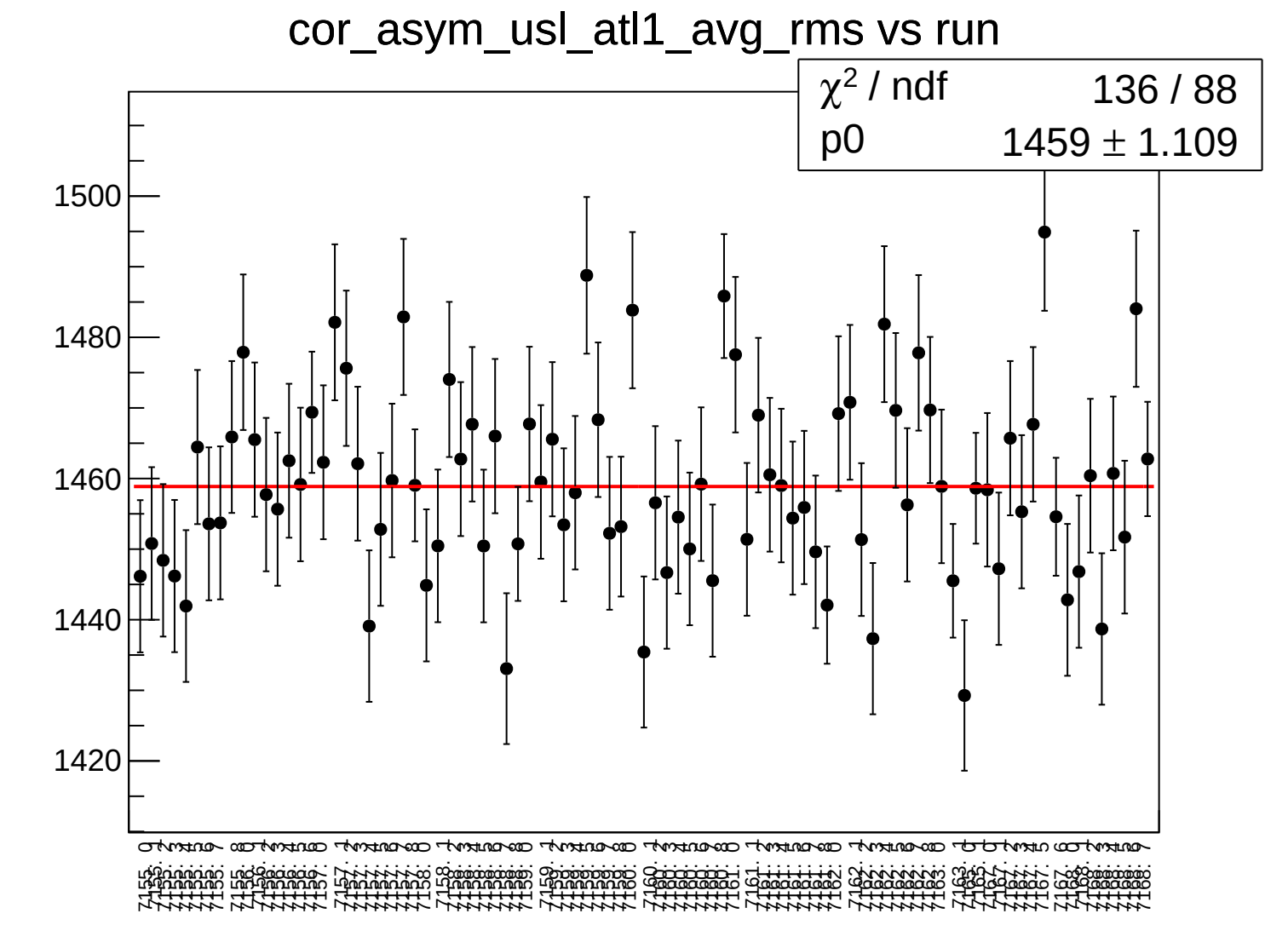

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 70.81 / 88
p0 −295.3 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −18.57
Std Dev 0
2
1
0
−1
−2

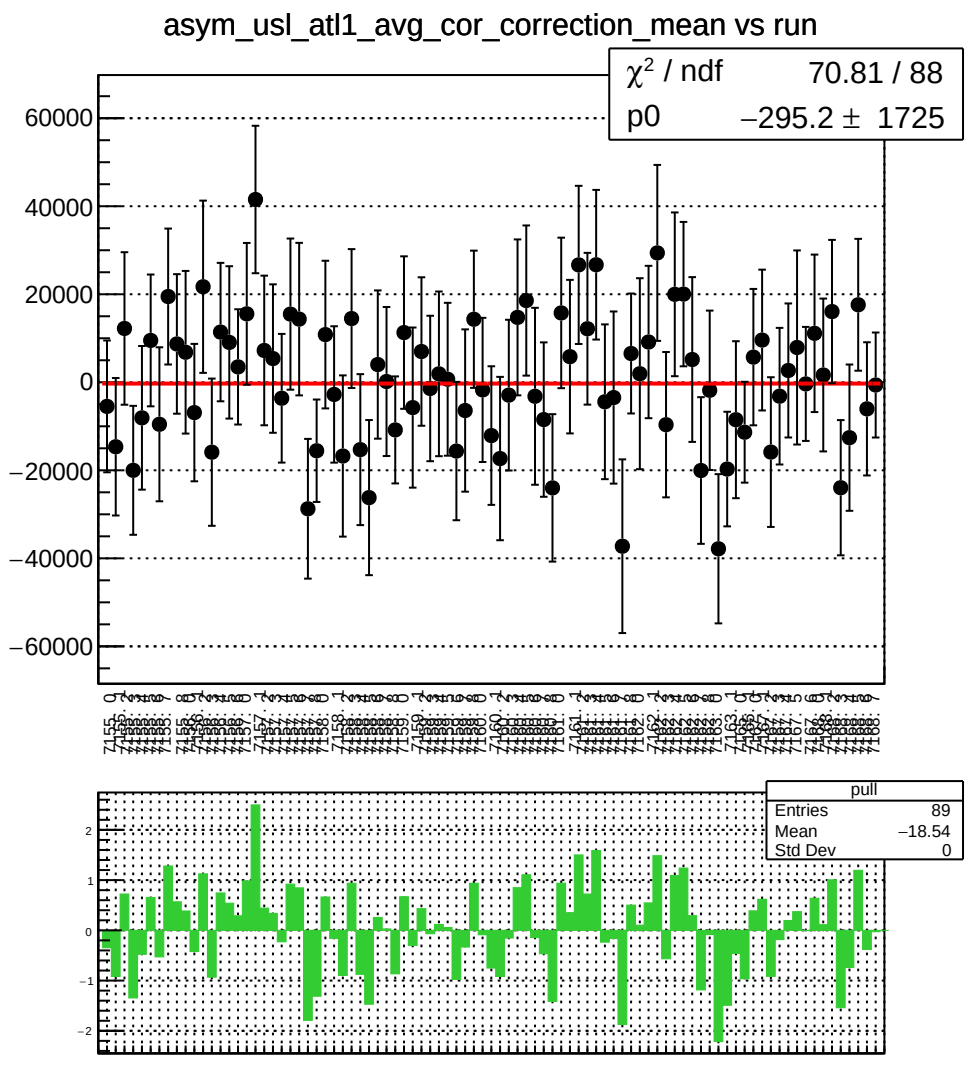

pull1D
Entries 89
Mean 0.02322
Std Dev 0.8917
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

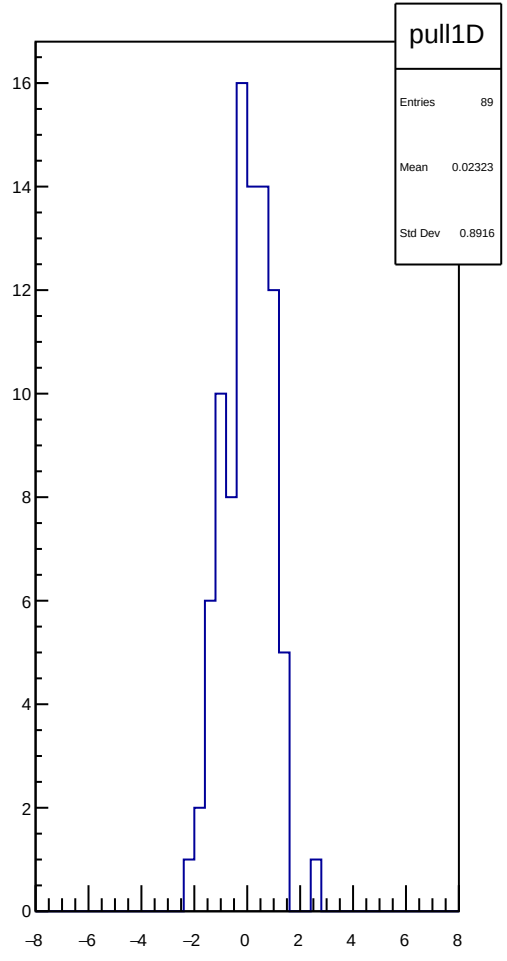

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 1.118e+04 / 88
p0 1599 ± 1.22
2100
2000
1900
1800
1700
1600
1500
1400

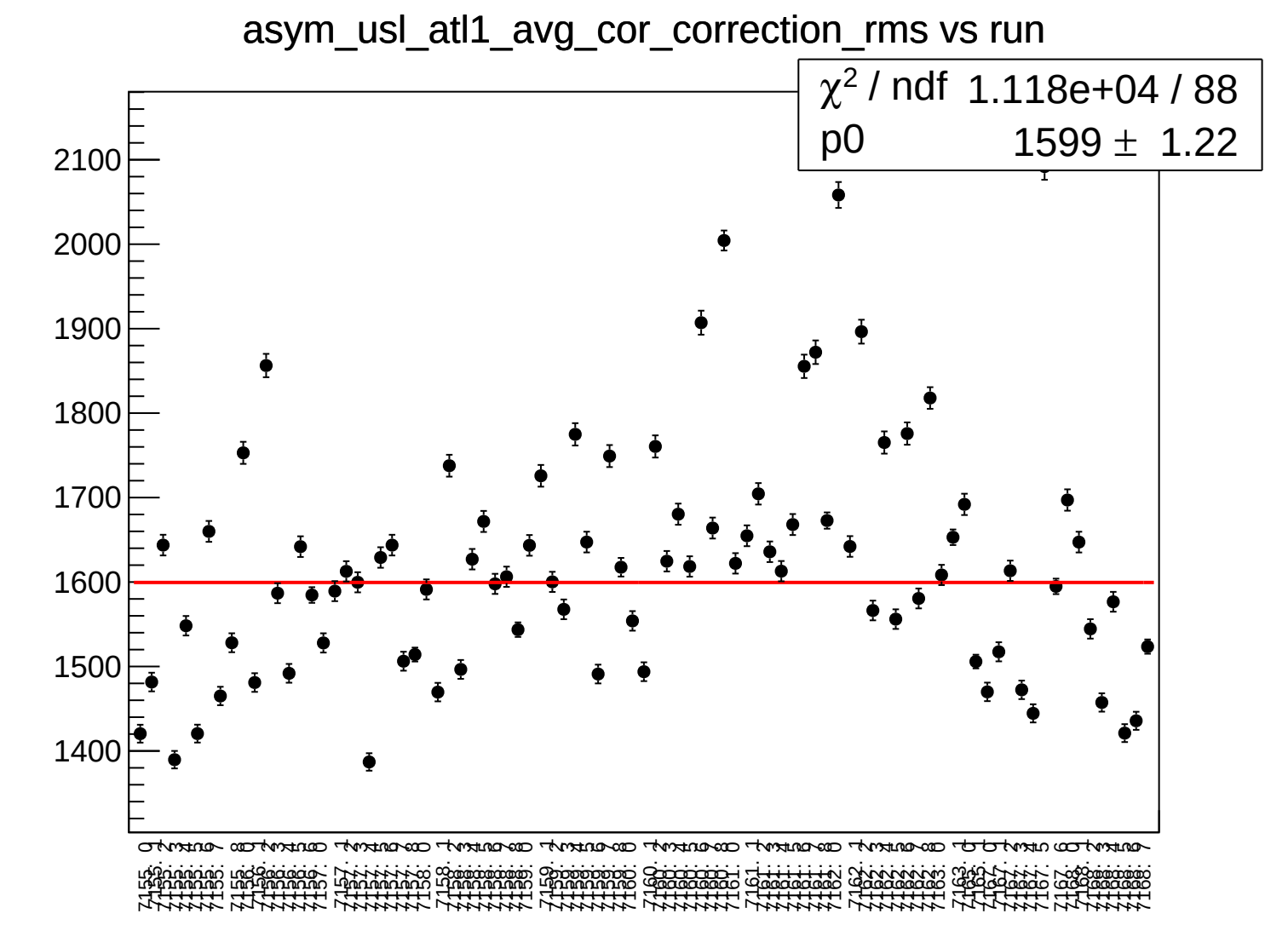

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.28 / 88
p0 −633.8 ± 1569
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 97.47
Std Dev 57.63
2
1
0
−1
−2

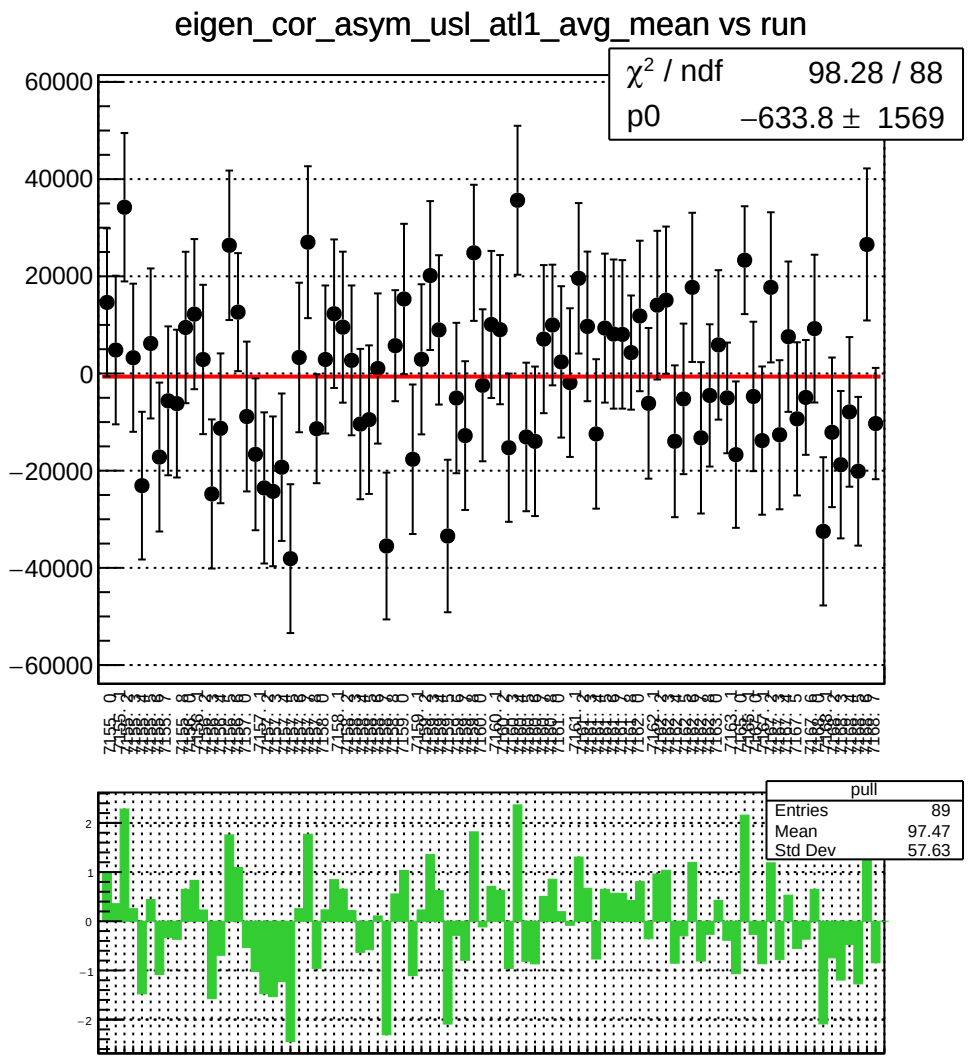

pull1D
Entries 89
Mean −0.009621
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

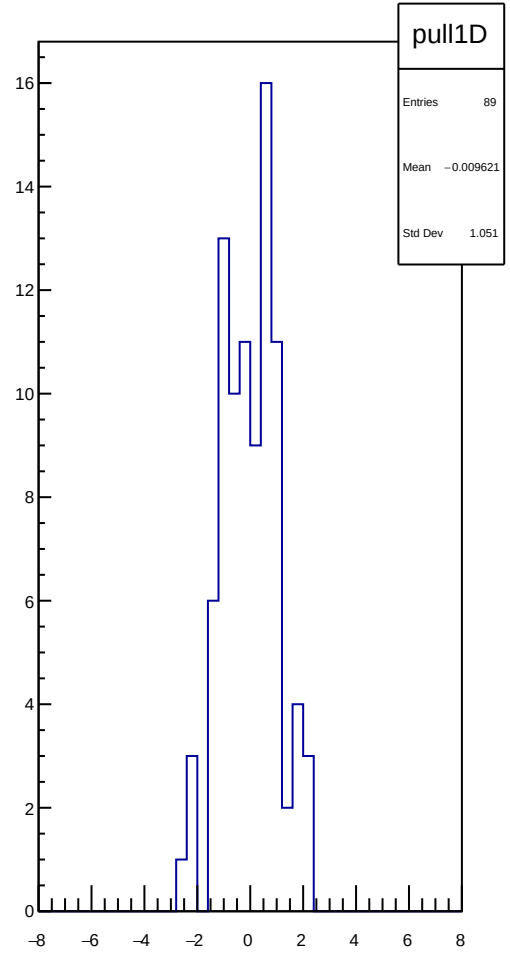

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 136 / 88
p0 1459 ± 1.109
1500
1480
1460
1440
1420

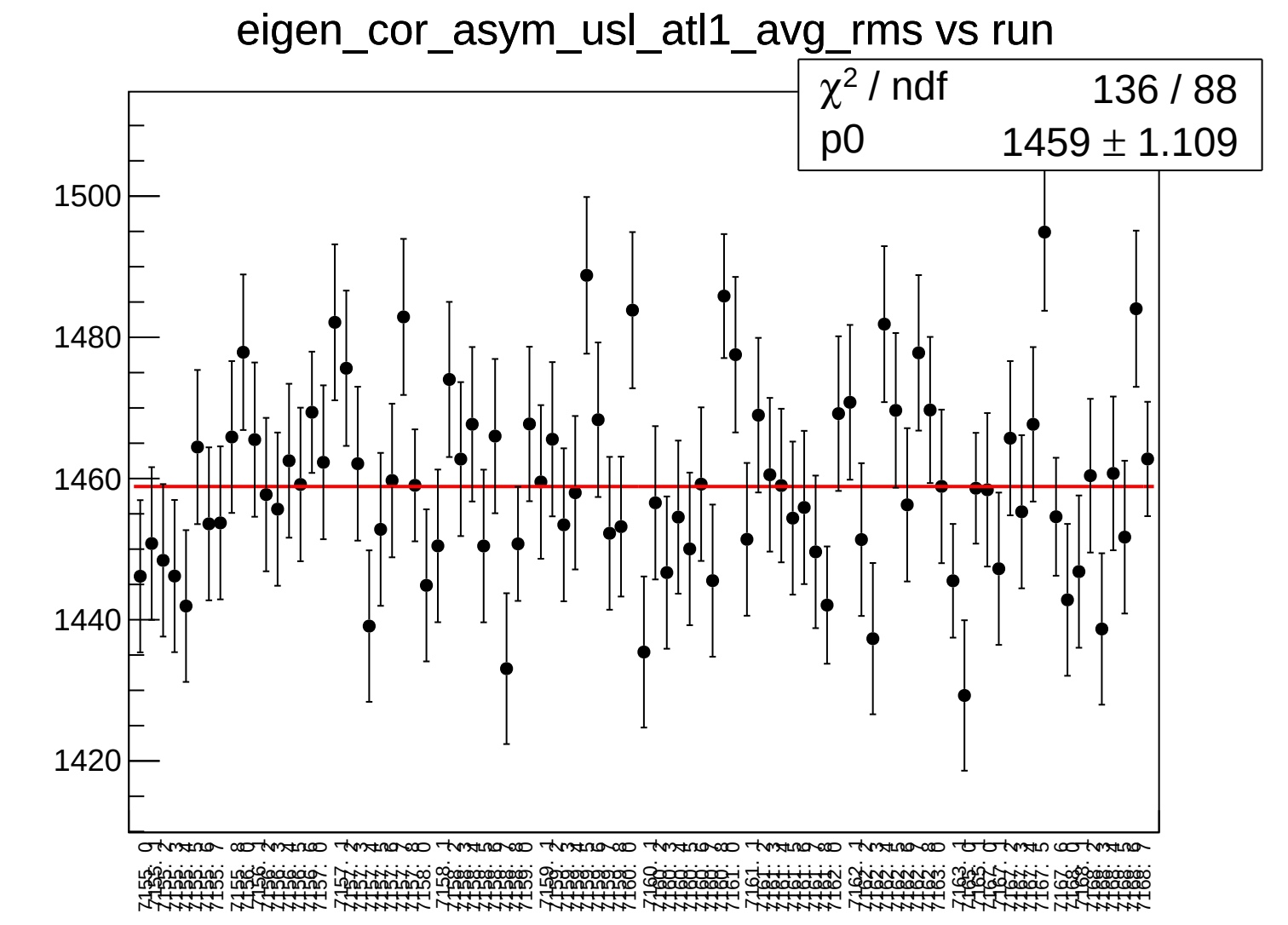

asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 70.81 / 88
p0 −295.2 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −18.54
Std Dev 0
2
1
0
−1
−2

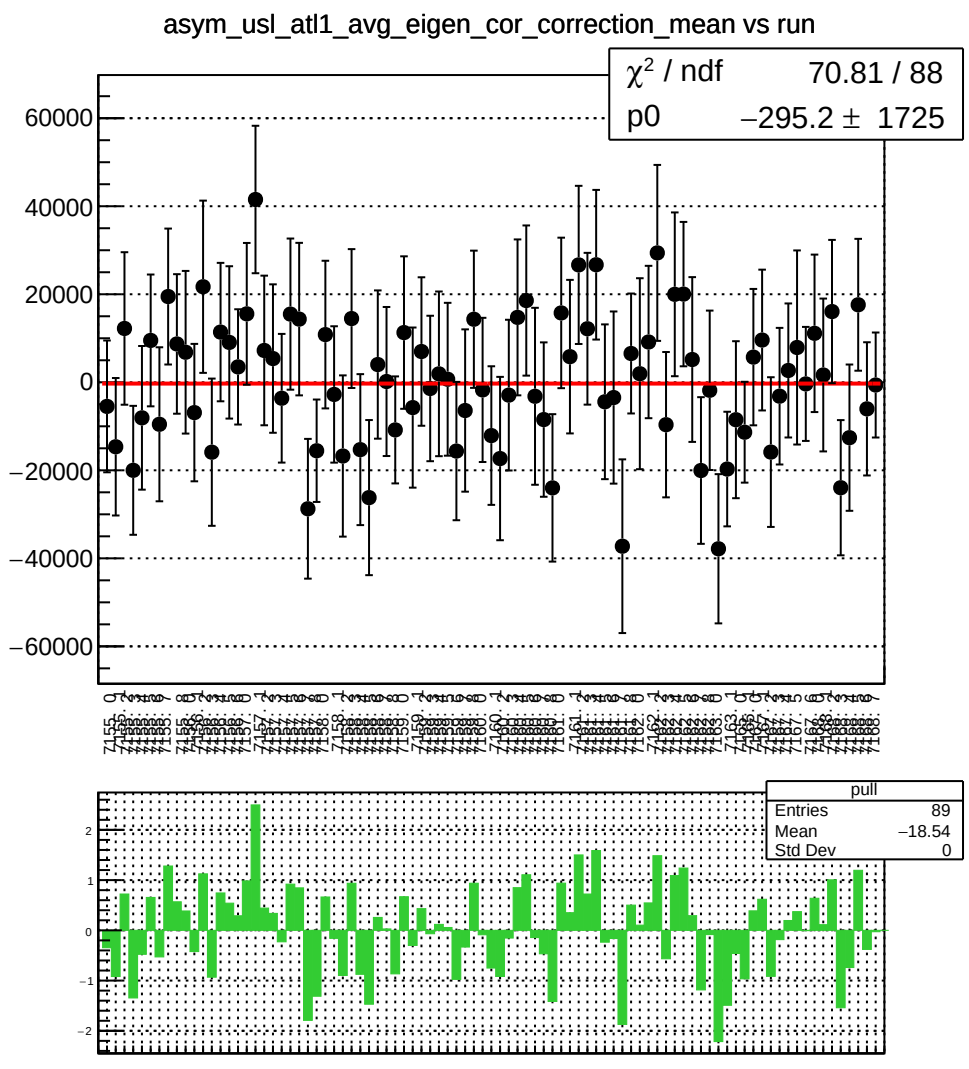

pull1D
Entries 89
Mean 0.02323
Std Dev 0.8916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

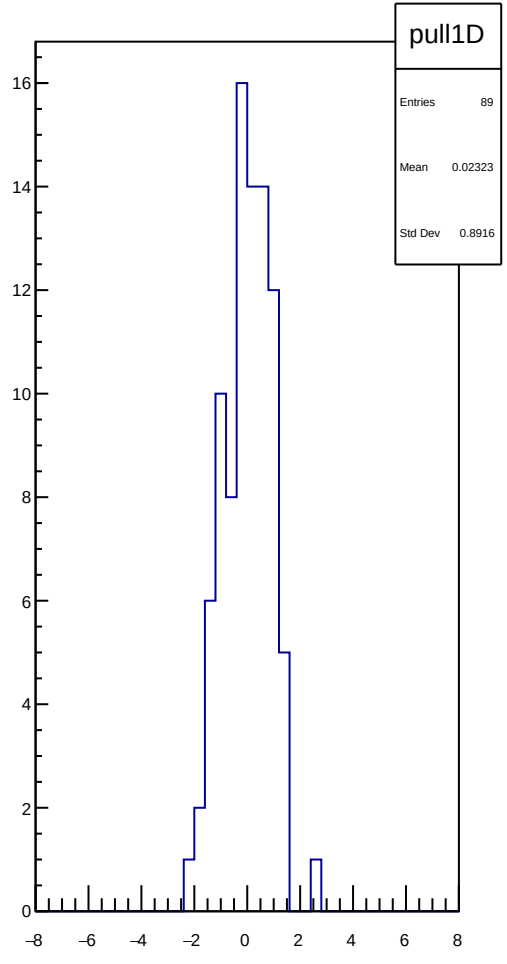

asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 88
p0 1599 ± 1.22
2100
2000
1900
1800
1700
1600
1500
1400

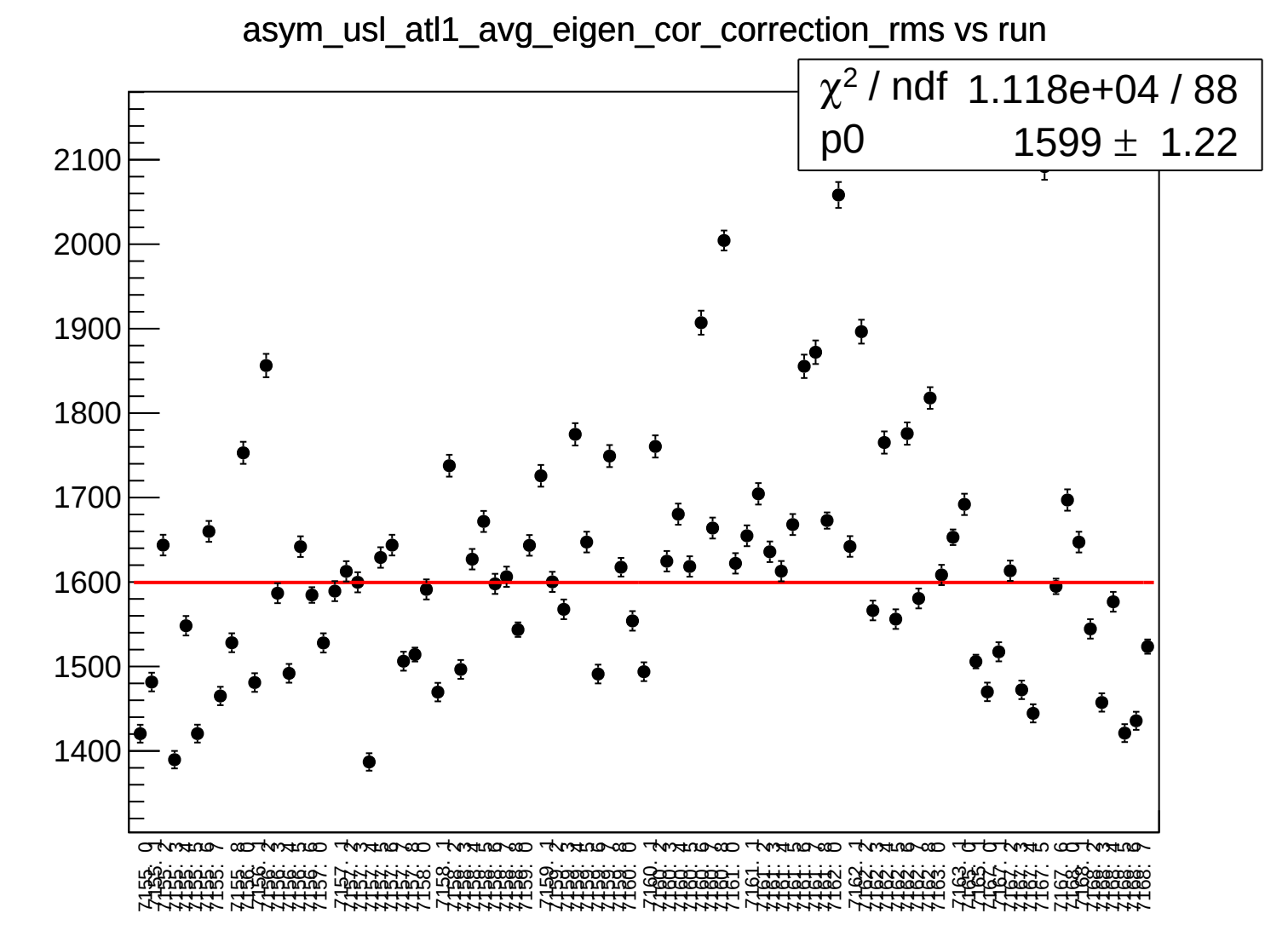

eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.28 / 88
p0 −633.8 ± 1569
pull
Entries 89
Mean 97.47
Std Dev 57.63

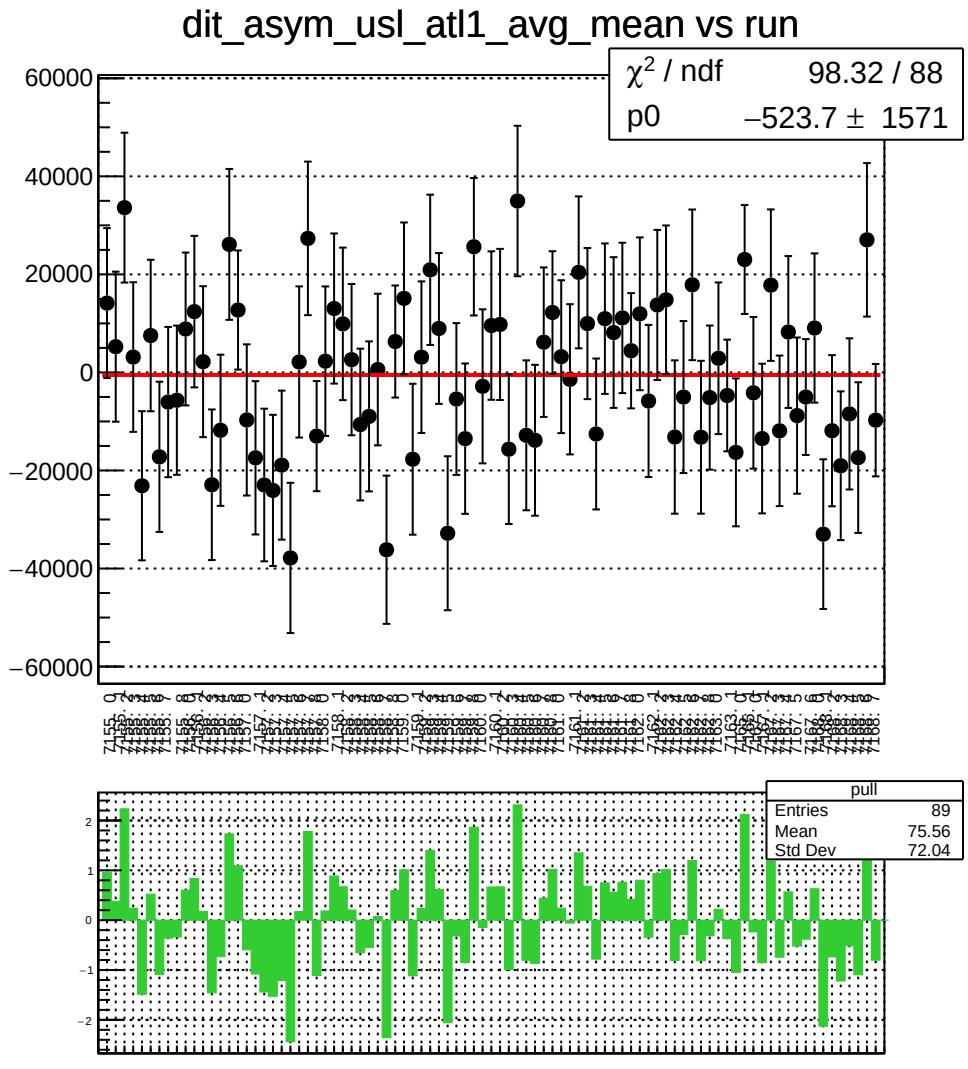

pull1D
Entries 89
Mean −0.009621
Std Dev 1.051

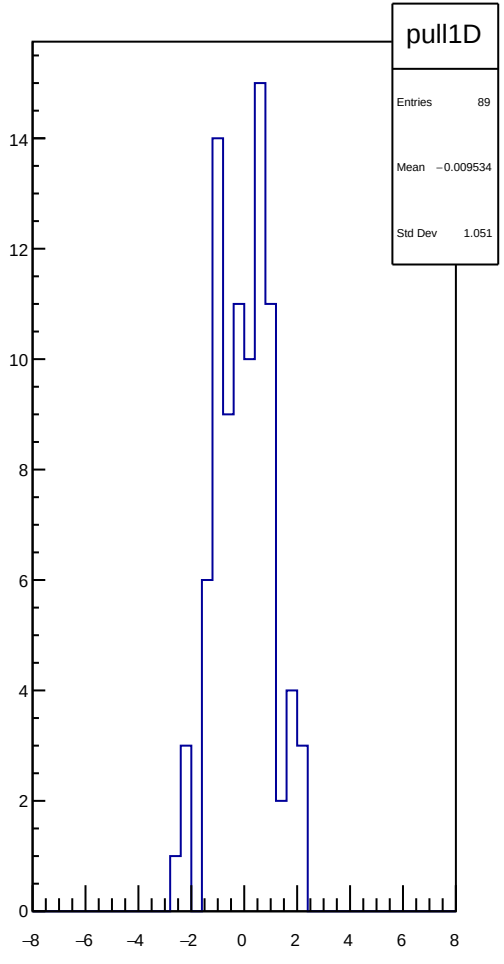

eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 136 / 88
p0 1459 ± 1.109
1500
1480
1460
1440
1420

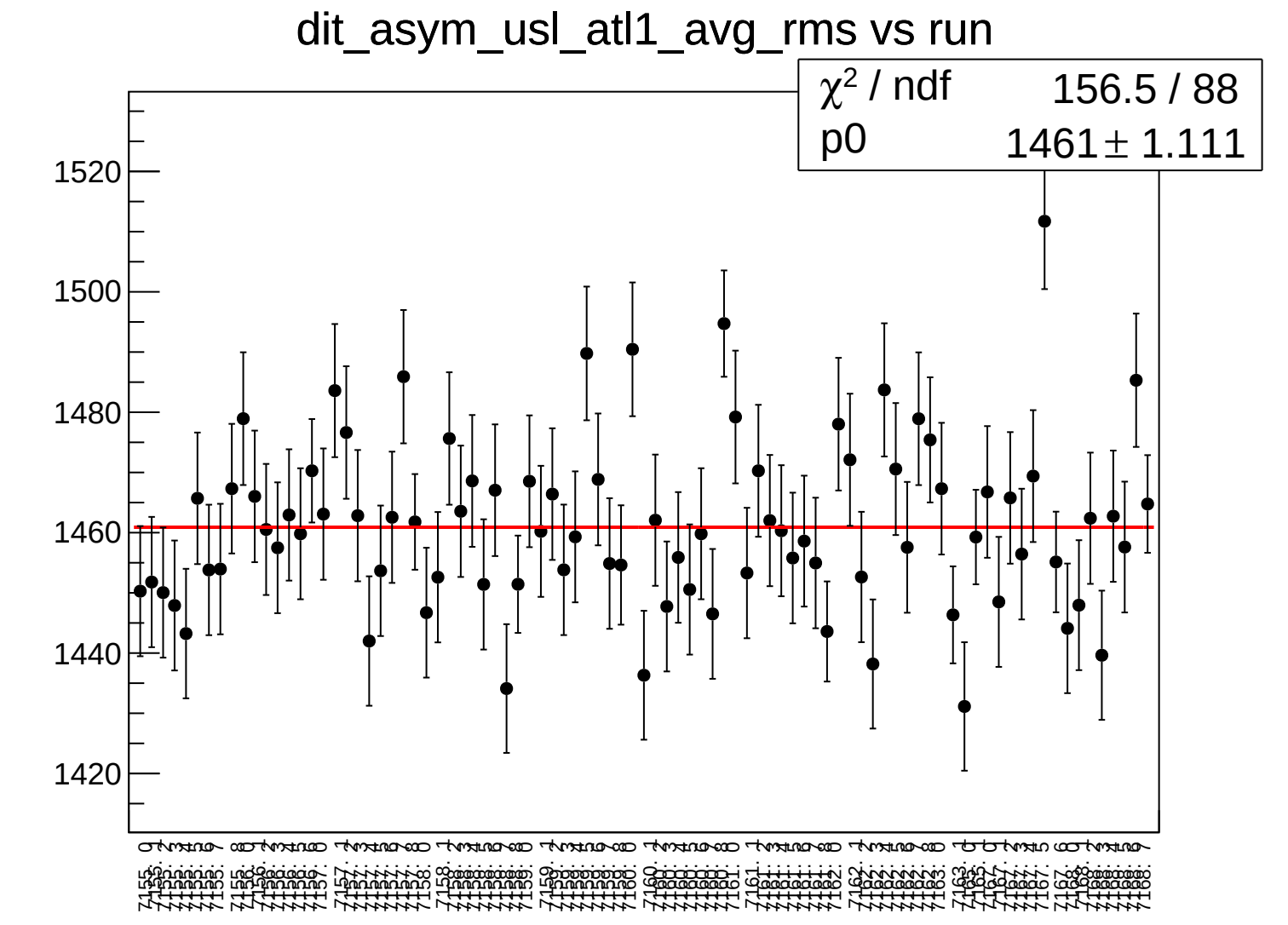

asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.81 / 88
p0 −295.2 ± 1725
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −18.54
Std Dev 0
2
1
0
−1
−2

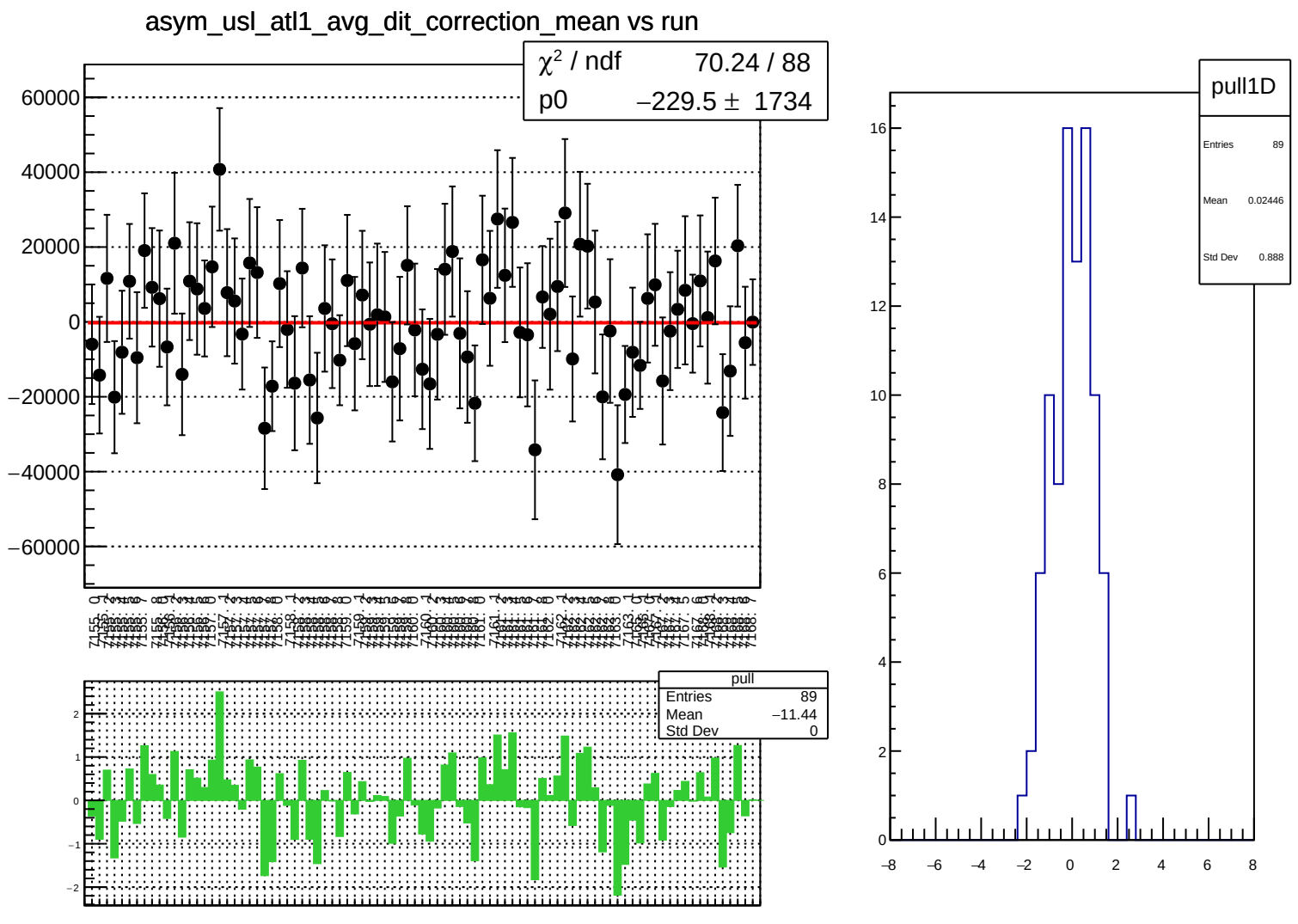

pull1D
Entries 89
Mean 0.02323
Std Dev 0.8916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

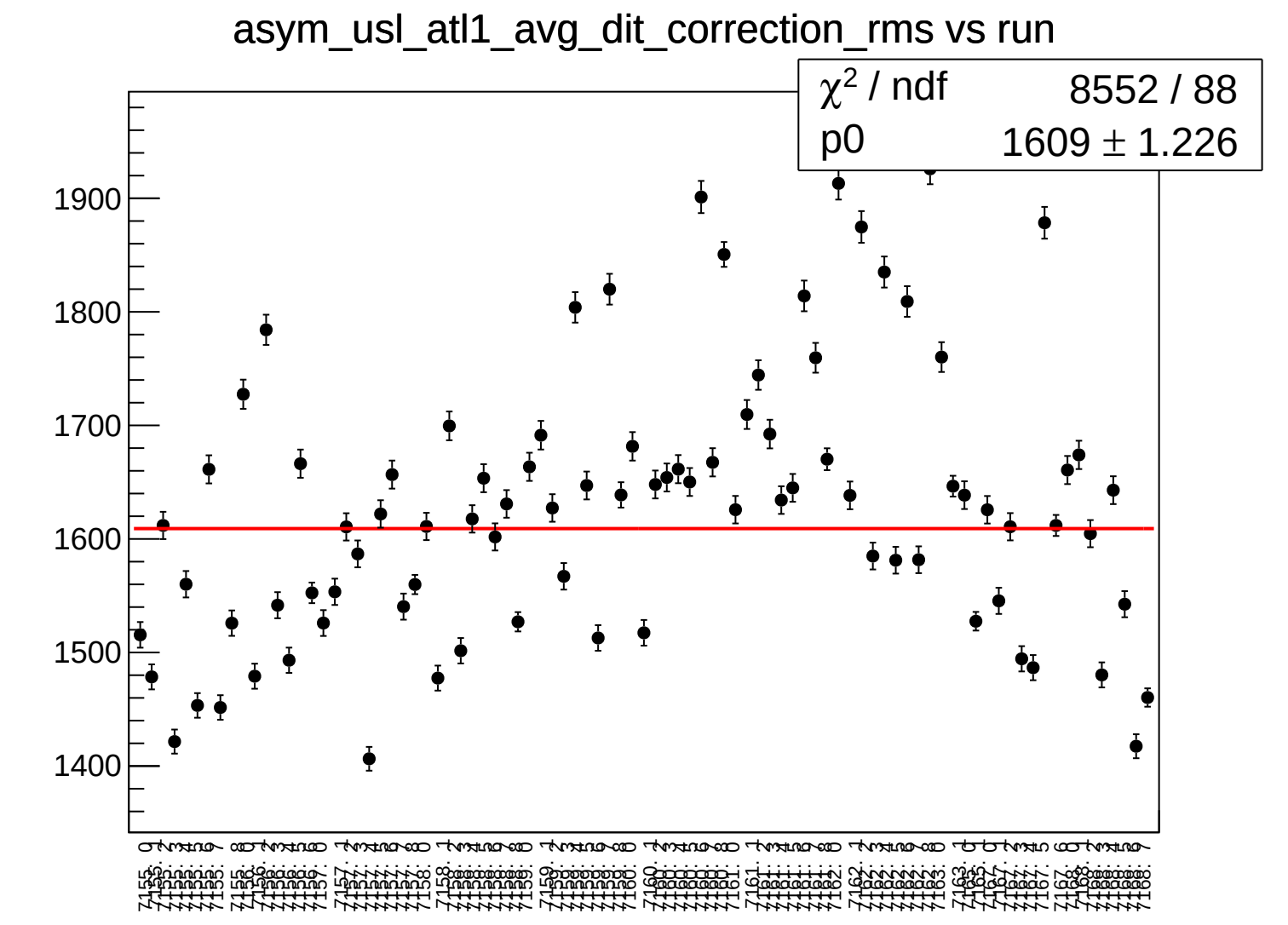

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.118e+04 / 88
p0 1599 ± 1.22
2100
2000
1900
1800
1700
1600
1500
1400

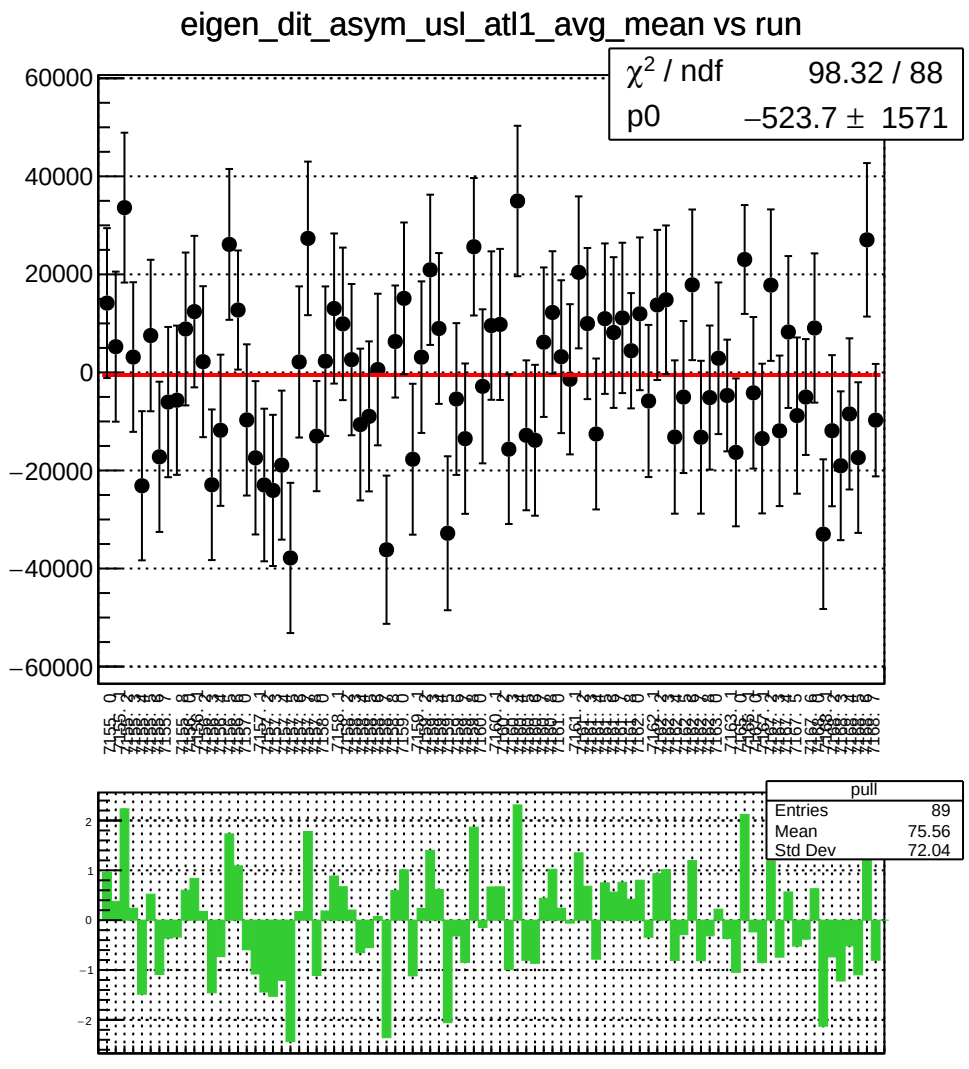

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.32 / 88
p0 −523.7 ± 1571
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 75.56
Std Dev 72.04
2
1
0
−1
−2

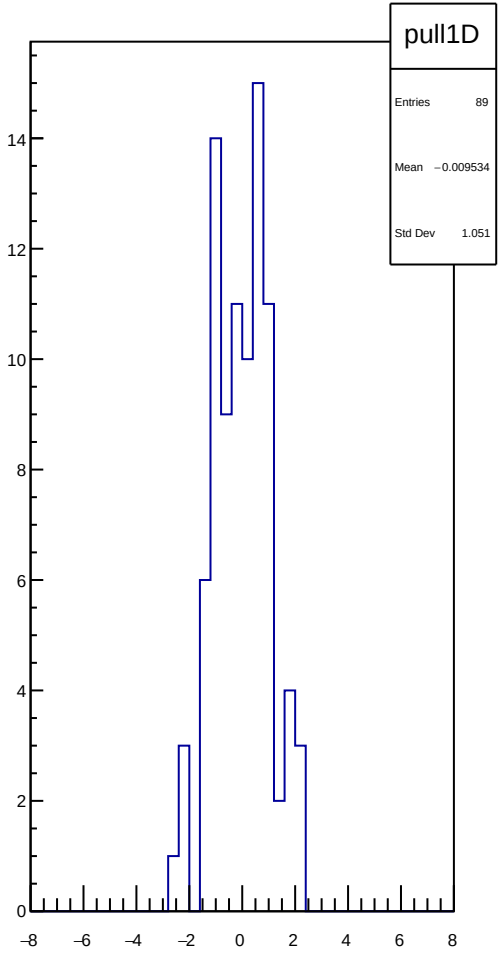

pull1D
Entries 89
Mean −0.009534
Std Dev 1.051
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

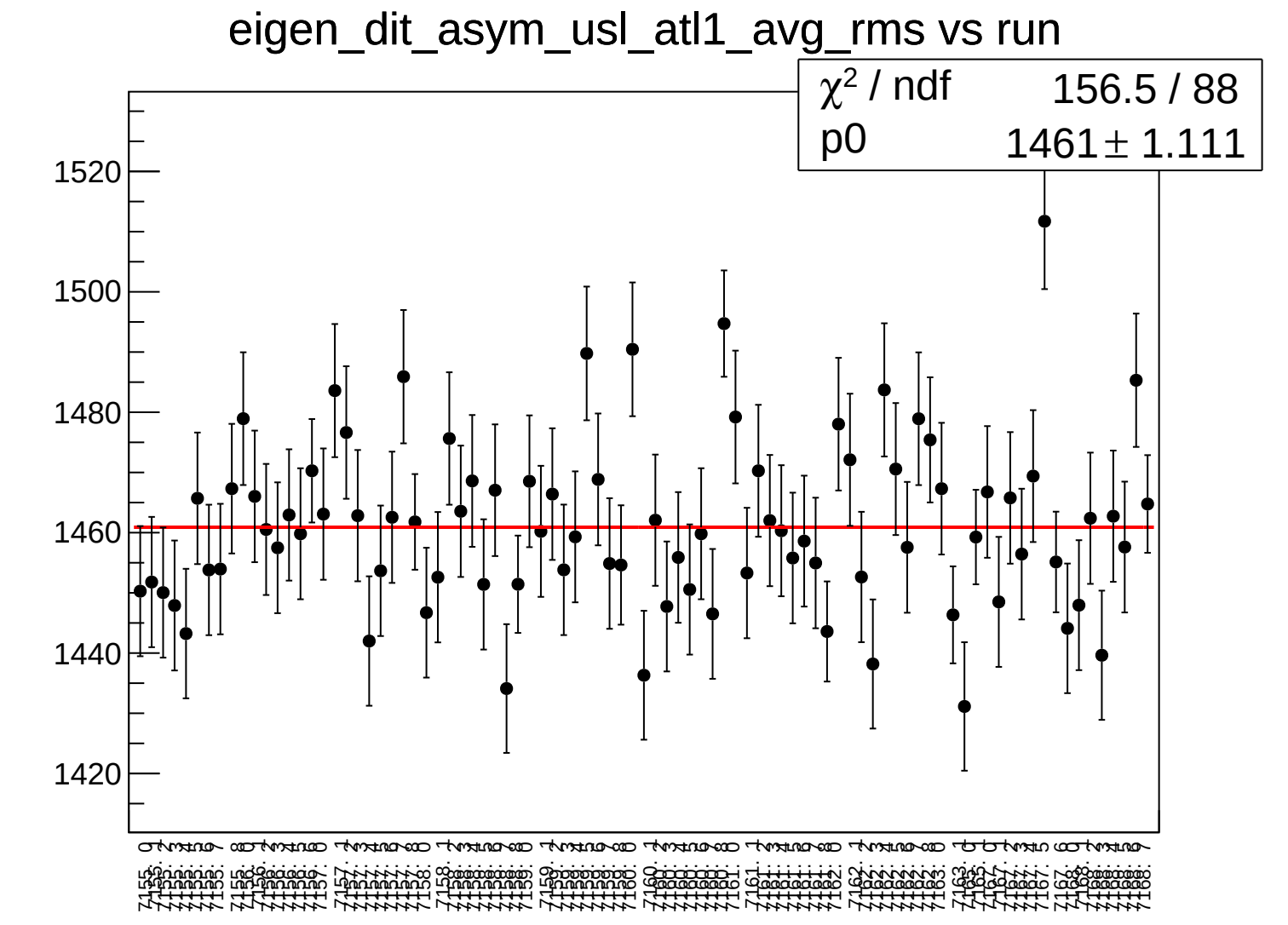

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 156.5 / 88
p0 1461 ± 1.111
1520
1500
1480
1460
1440
1420

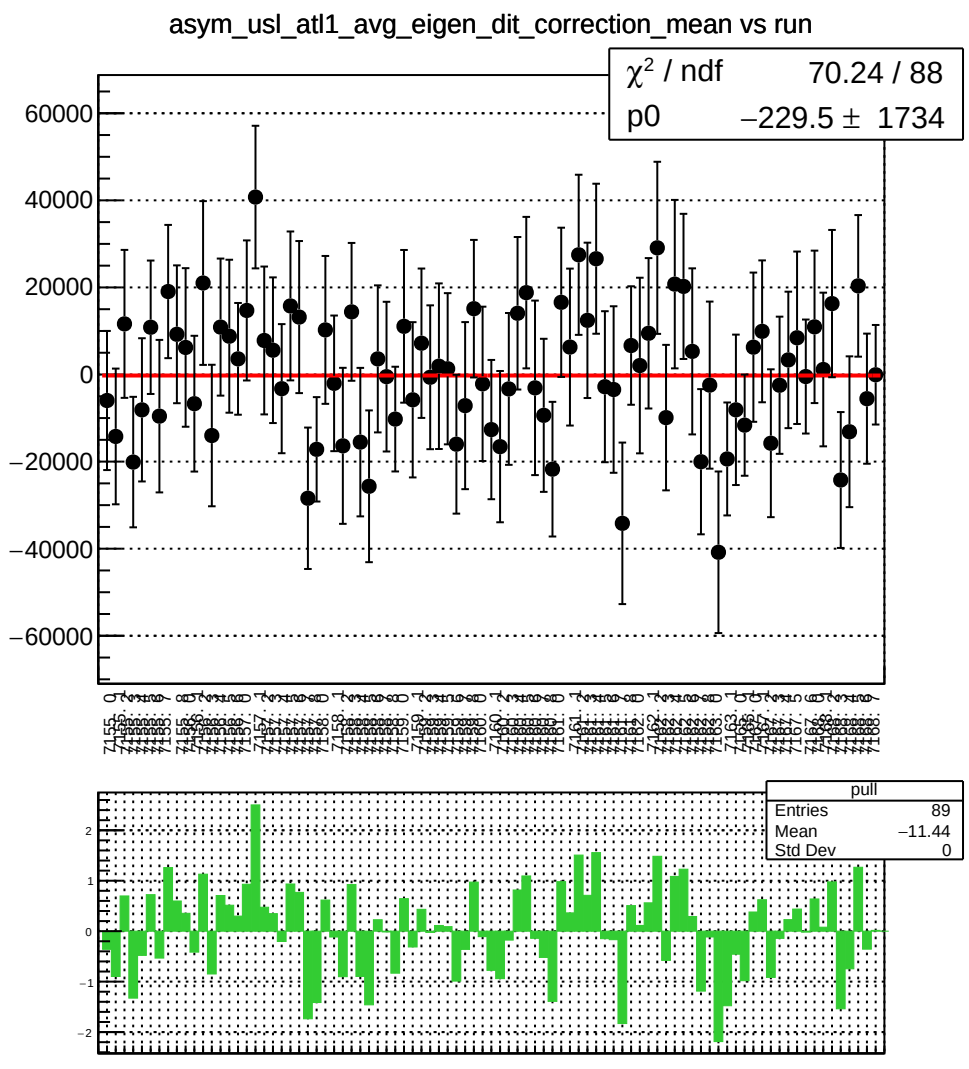

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 70.24 / 88
p0 −229.5 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −11.44
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02446
Std Dev 0.888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

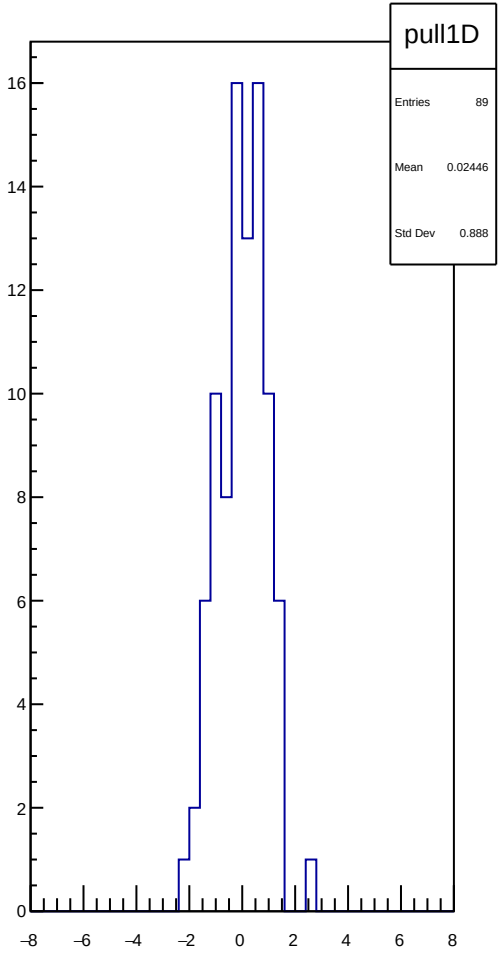

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 8552 / 88
p0 1609 ± 1.226
1900
1800
1700
1600
1500
1400

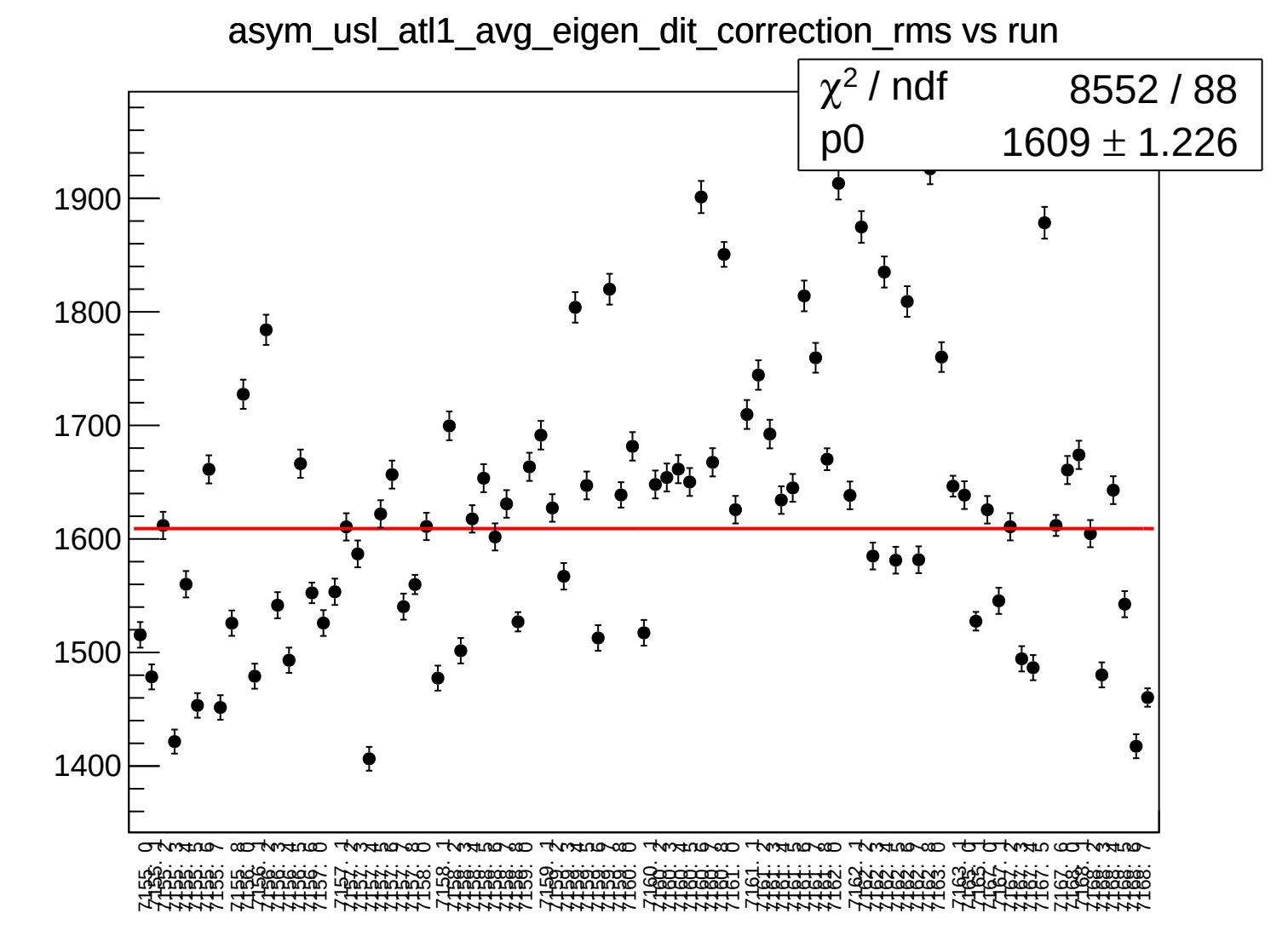

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 98.32 / 88
p0 −523.7 ± 1571
pull
Entries 89
Mean 75.56
Std Dev 72.04

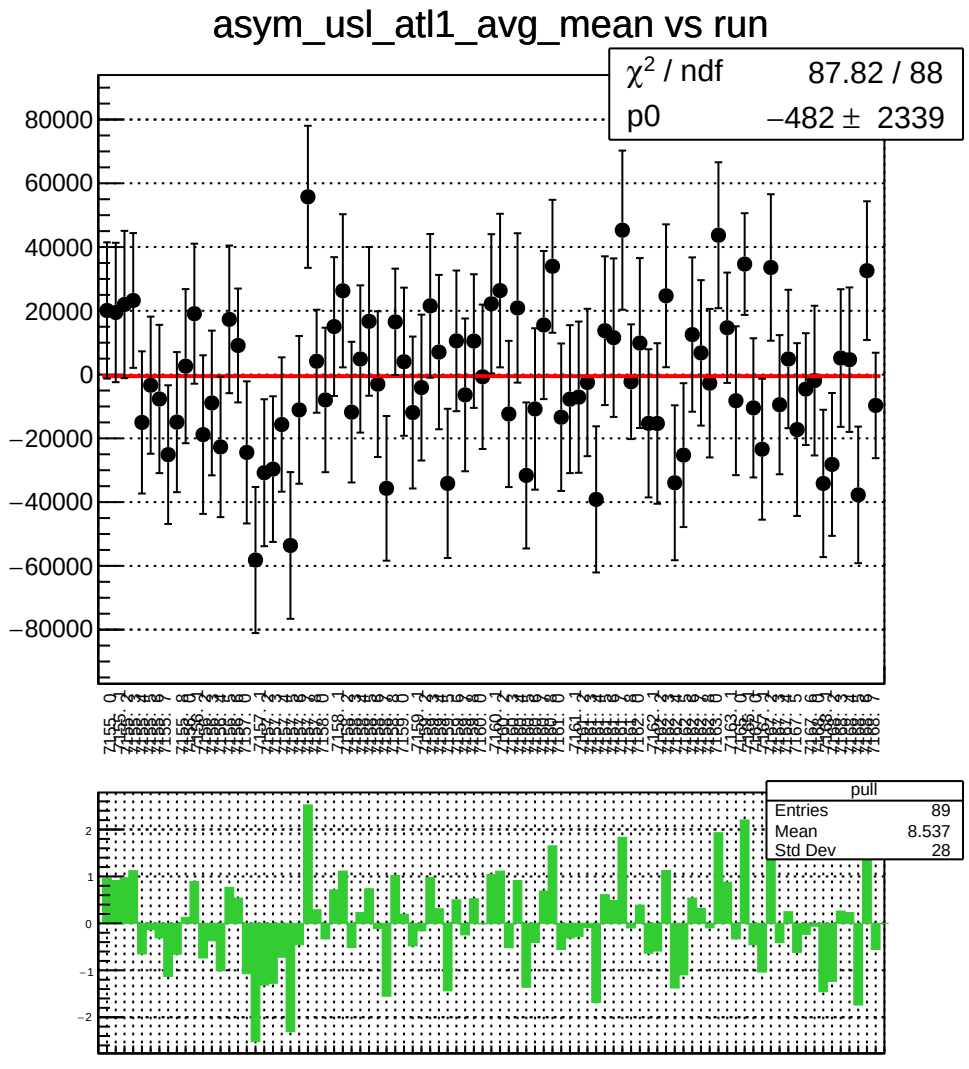

pull1D
Entries 89
Mean −0.009534
Std Dev 1.051

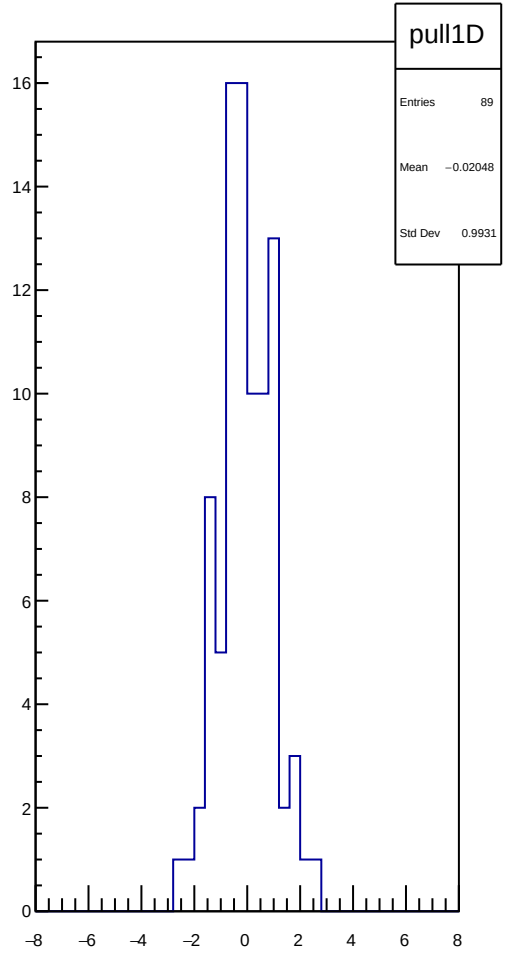

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 156.5 / 88
p0 1461 ± 1.111
1520
1500
1480
1460
1440
1420

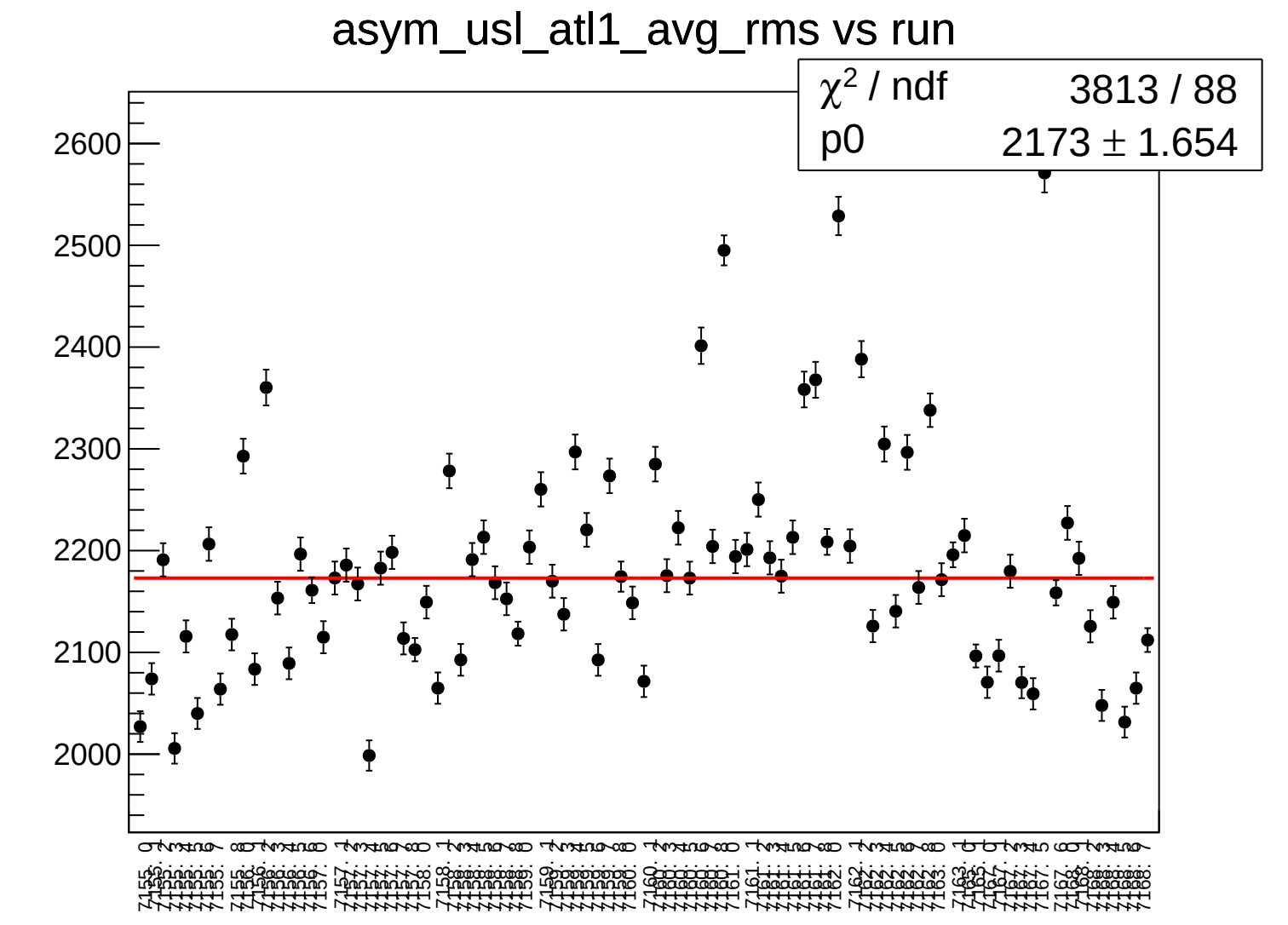

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.24 / 88
p0 −229.5 ± 1734
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −11.44
Std Dev 0
2
1
0
−1
−2

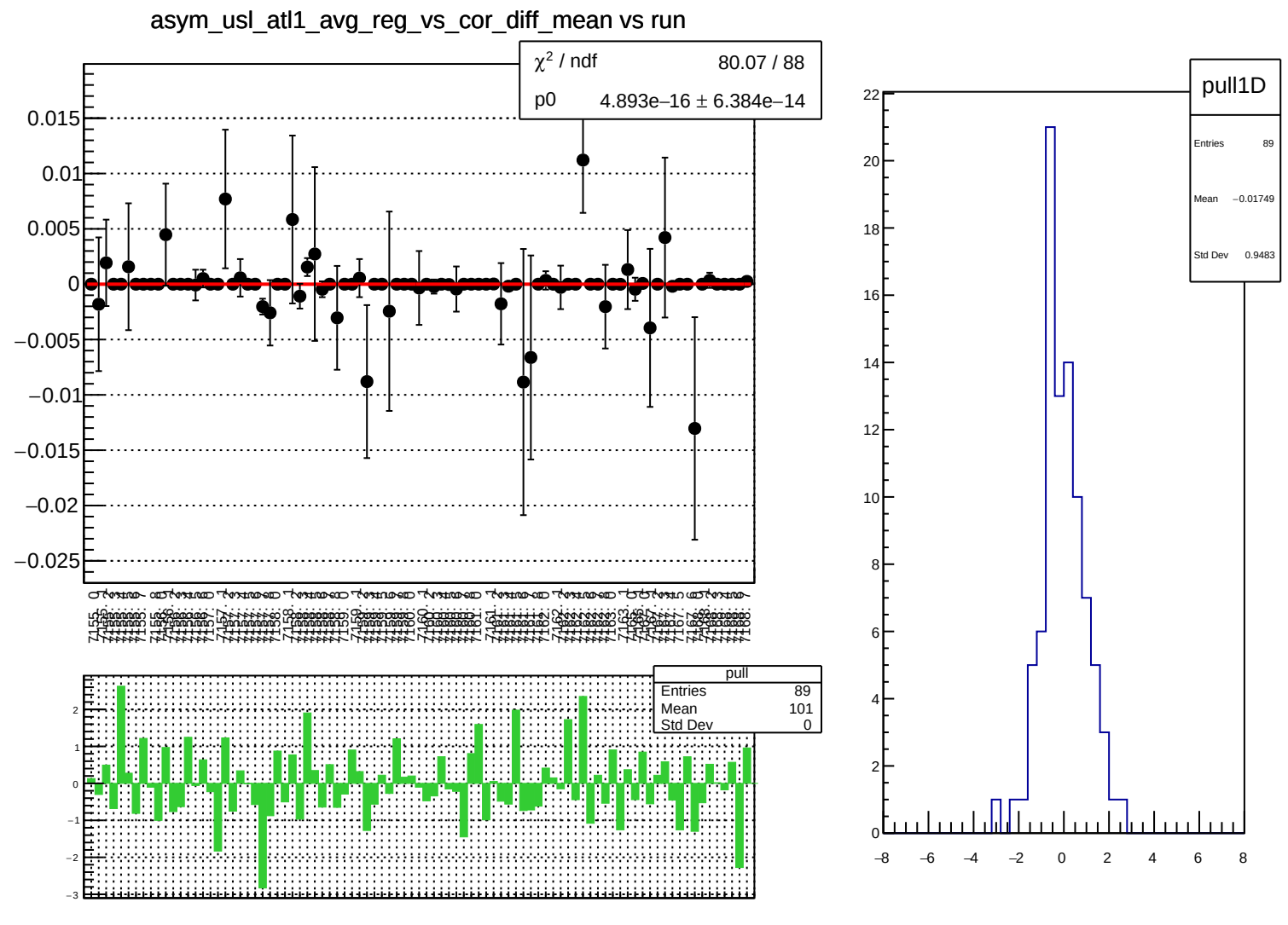

pull1D
Entries 89
Mean 0.02446
Std Dev 0.888
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

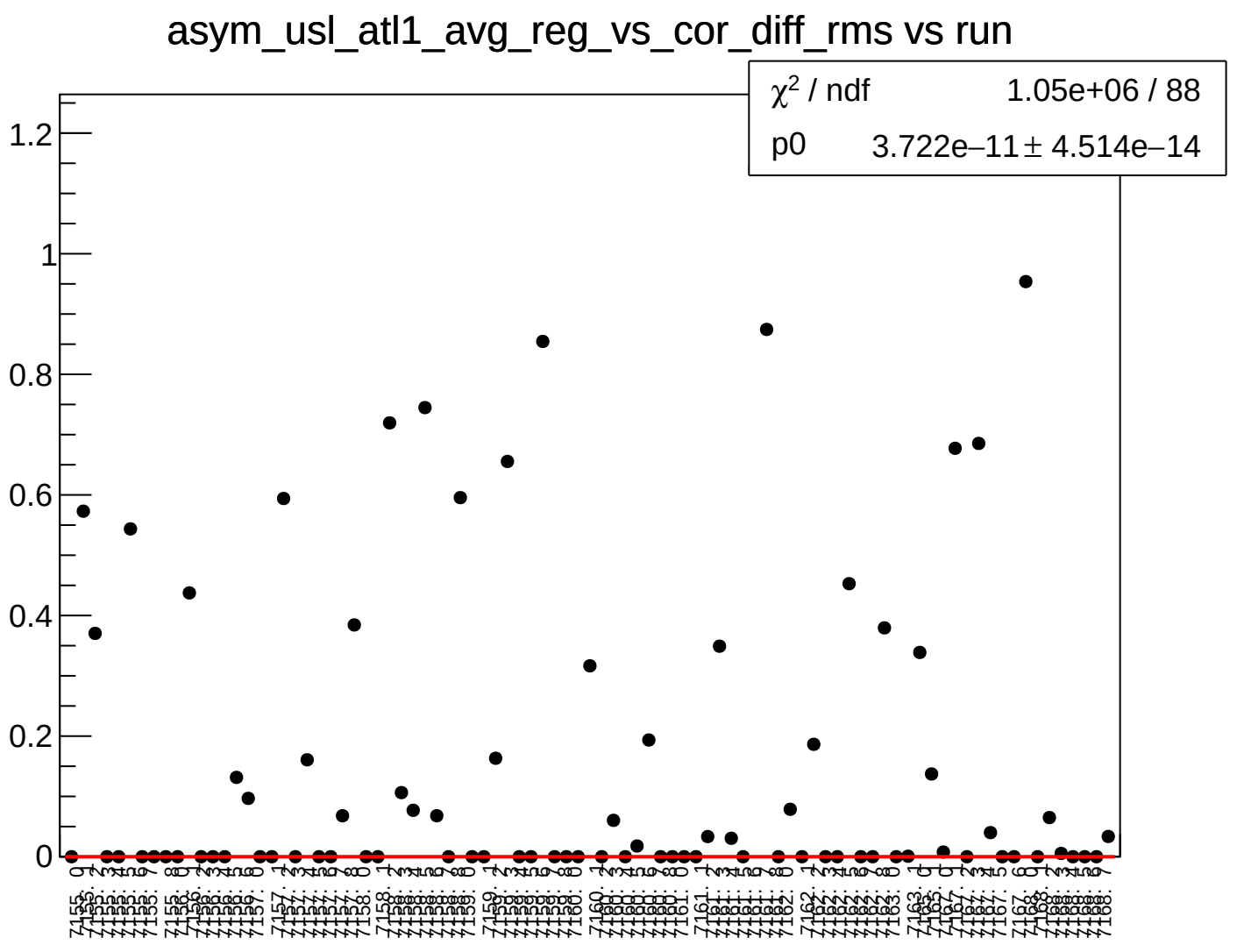

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8552 / 88
p0 1609 ± 1.226
1900
1800
1700
1600
1500
1400

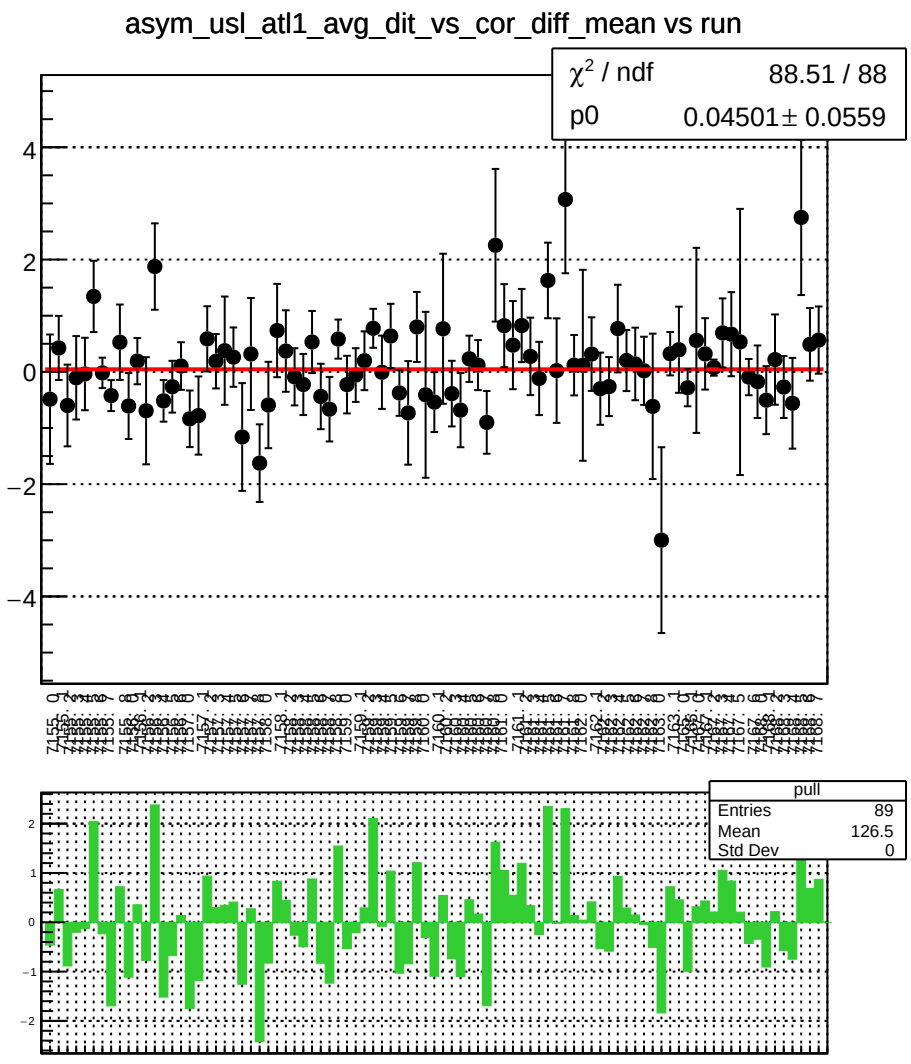

asym_usl_atl1_avg_mean vs run
χ² / ndf 87.82 / 88
p0 −482 ± 2339
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 89
Mean 8.537
Std Dev 28
2
1
0
−1
−2

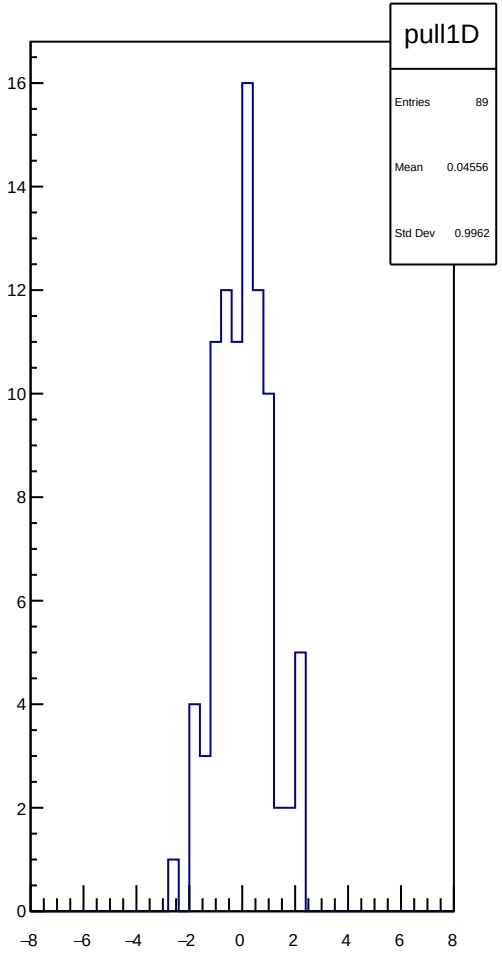

pull1D
Entries 89
Mean −0.02048
Std Dev 0.9931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

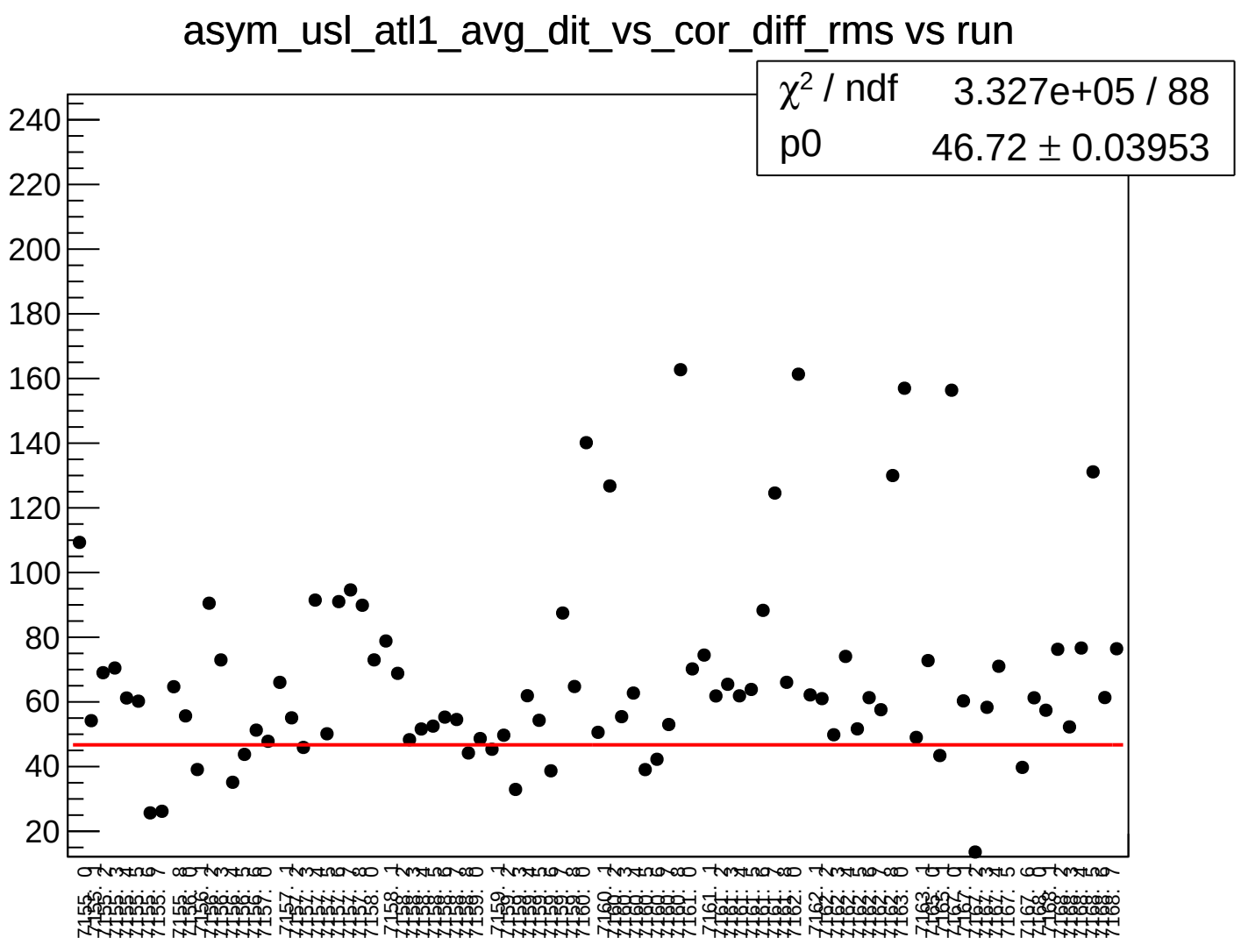

asym_usl_atl1_avg_rms vs run
χ² / ndf 3813 / 88
p0 2173 ± 1.654
2600
2500
2400
2300
2200
2100
2000

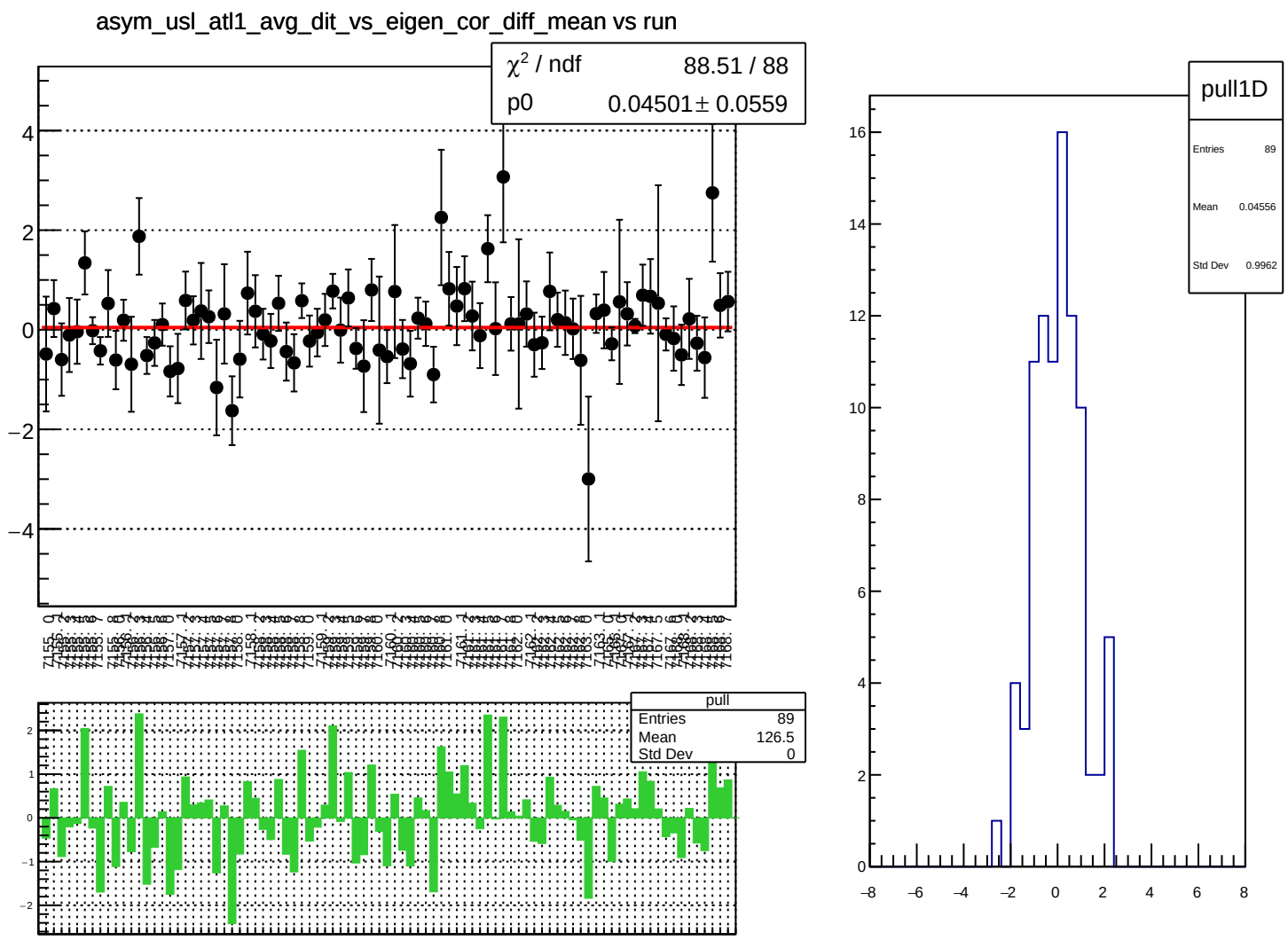

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.07 / 88
p0 4.893e−16 ± 6.384e−14
pull
Entries 89
Mean 101
Std Dev 0
pull1D
Entries 89
Mean −0.01749
Std Dev 0.9483

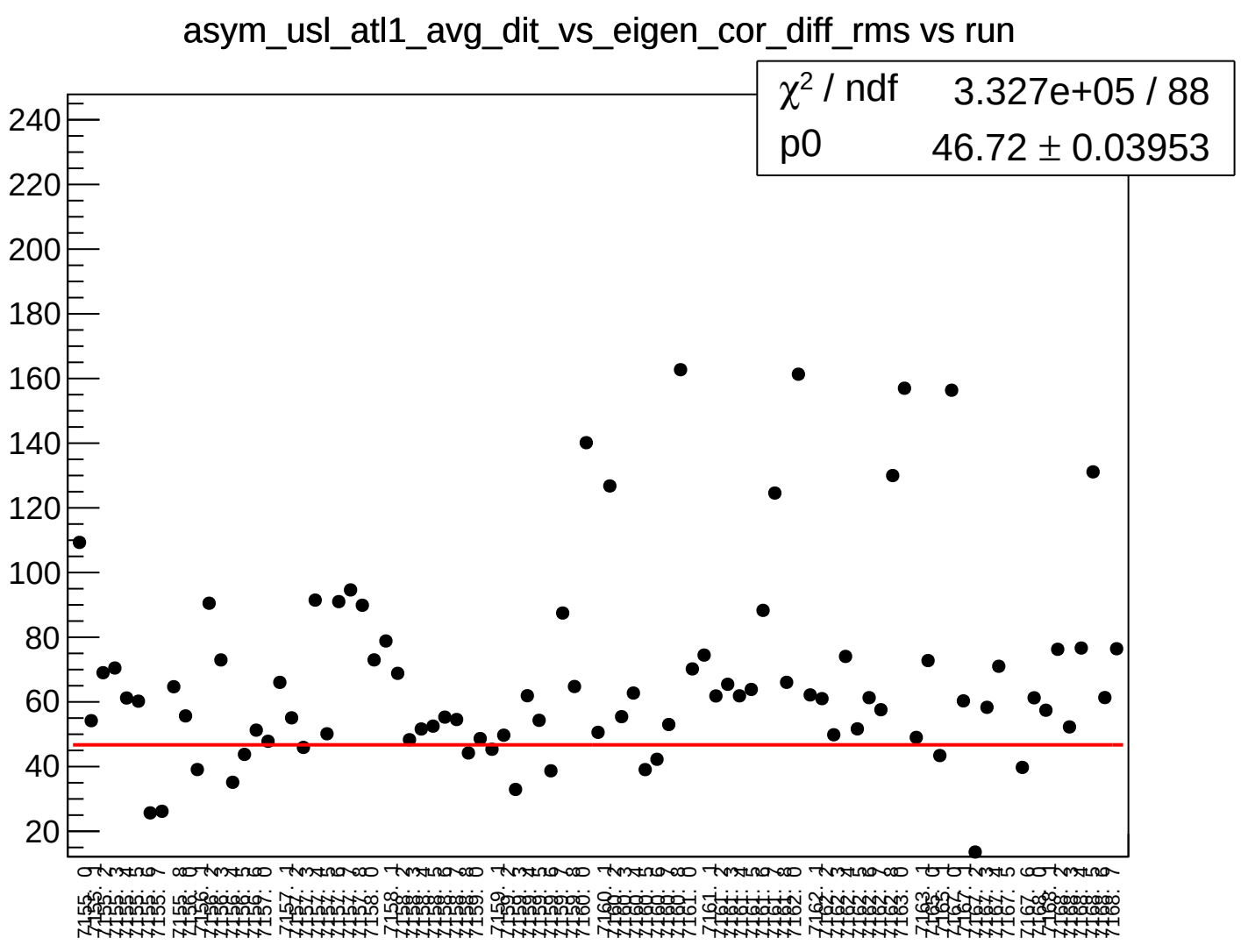

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 88
p0 3.722e−11 ± 4.514e−14
1.2
1
0.8
0.6
0.4
0.2
0

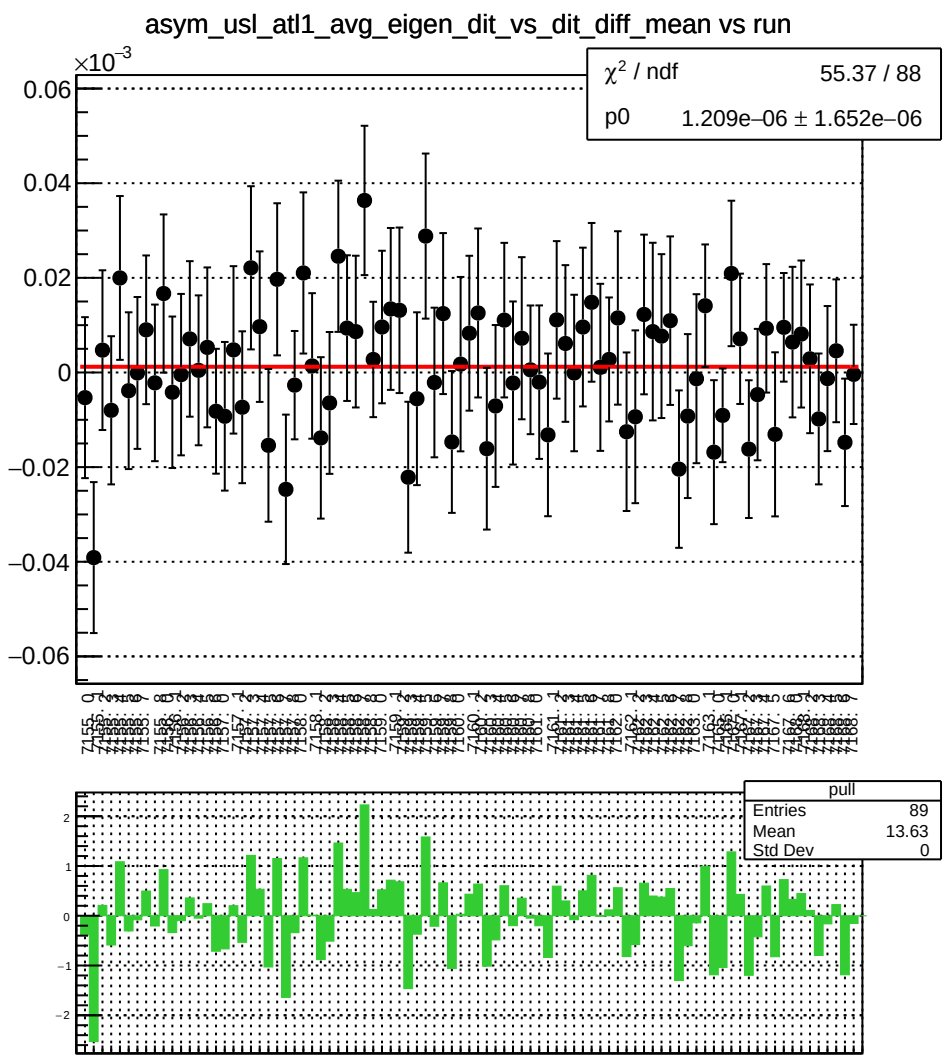

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.51 / 88
p0 0.04501 ± 0.0559
pull
Entries 89
Mean 126.5
Std Dev 0

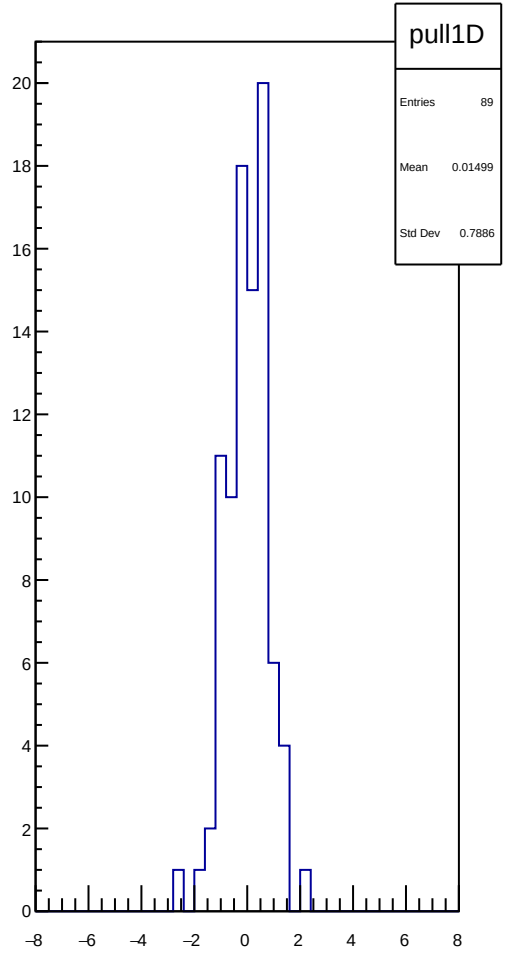

pull1D
Entries 89
Mean 0.04556
Std Dev 0.9962

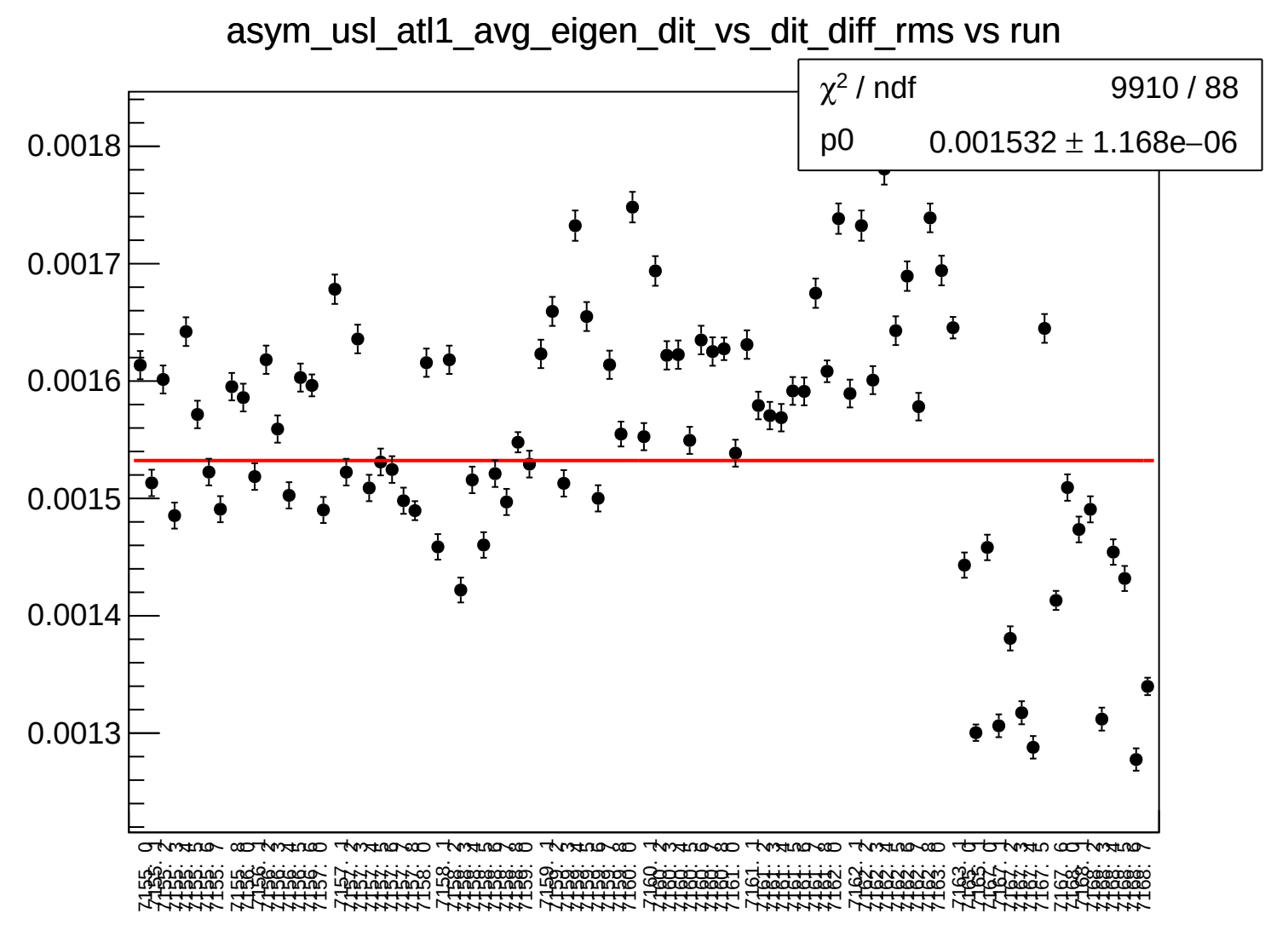

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.327e+05 / 88
p0 46.72 ± 0.03953
240
220
200
180
160
140
120
100
80
60
40
20

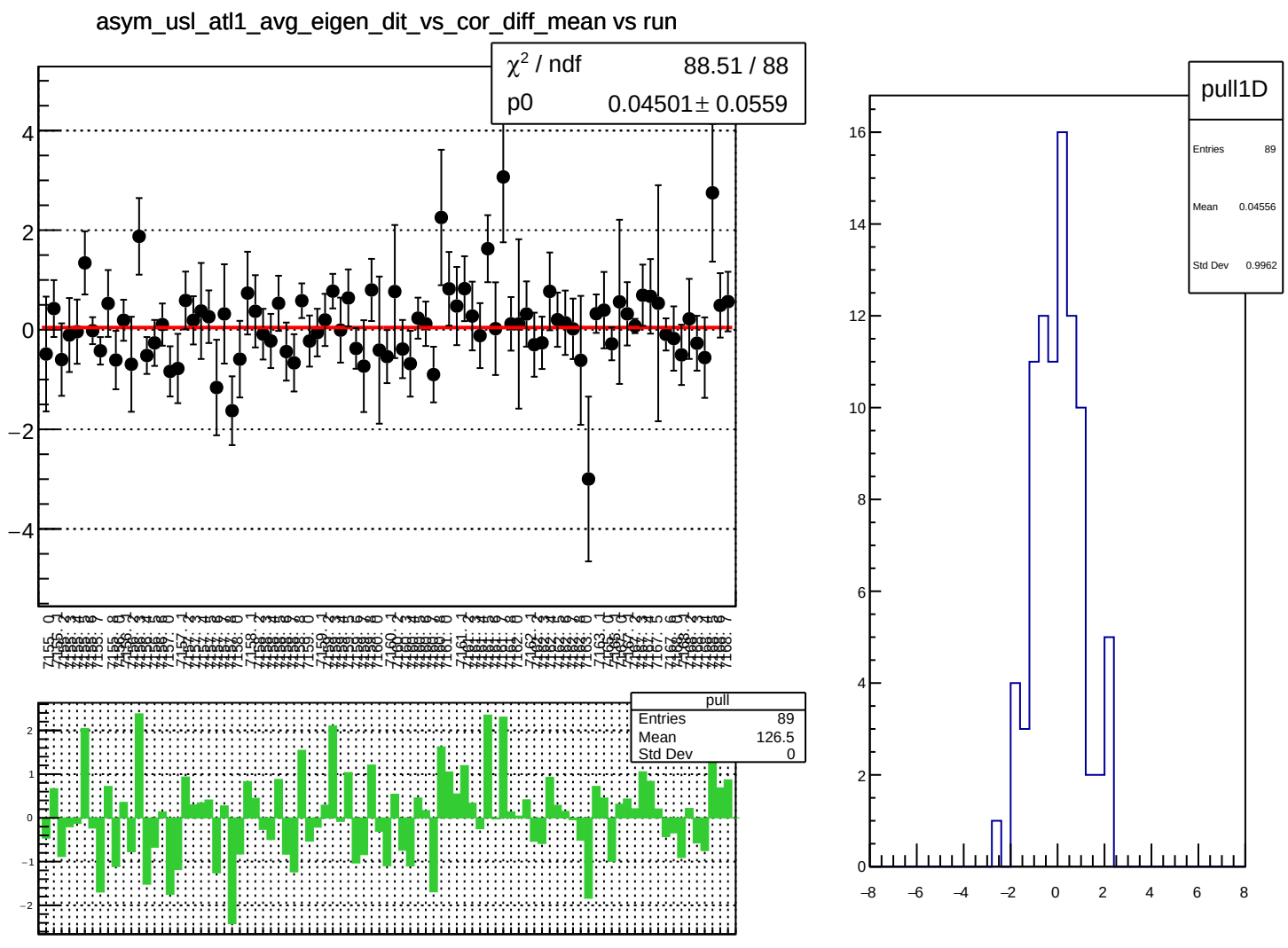

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.51 / 88
p0 0.04501 ± 0.0559
pull
Entries 89
Mean 126.5
Std Dev 0
pull1D
Entries 89
Mean 0.04556
Std Dev 0.9962

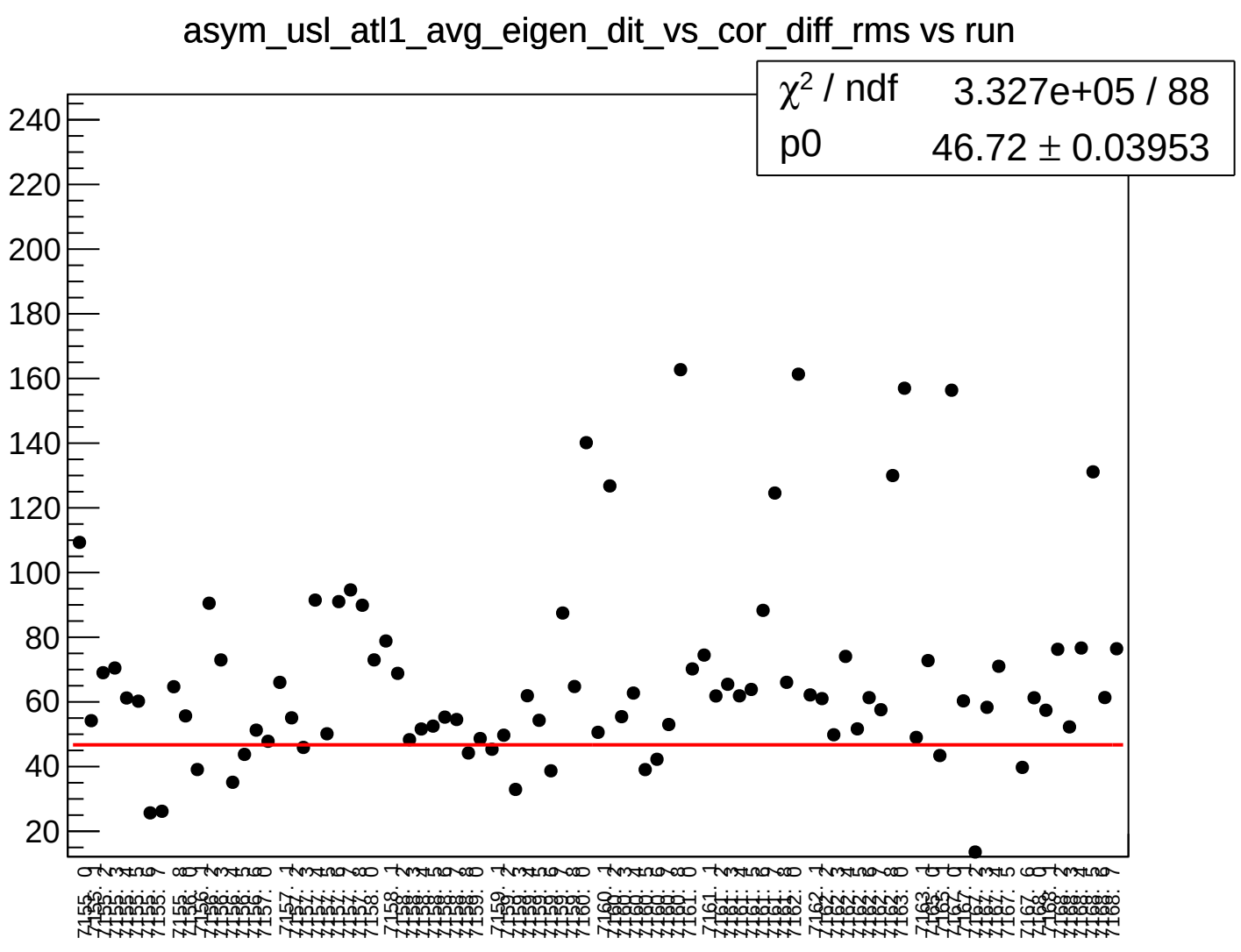

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.327e+05 / 88
p0 46.72 ± 0.03953
240
220
200
180
160
140
120
100
80
60
40
20

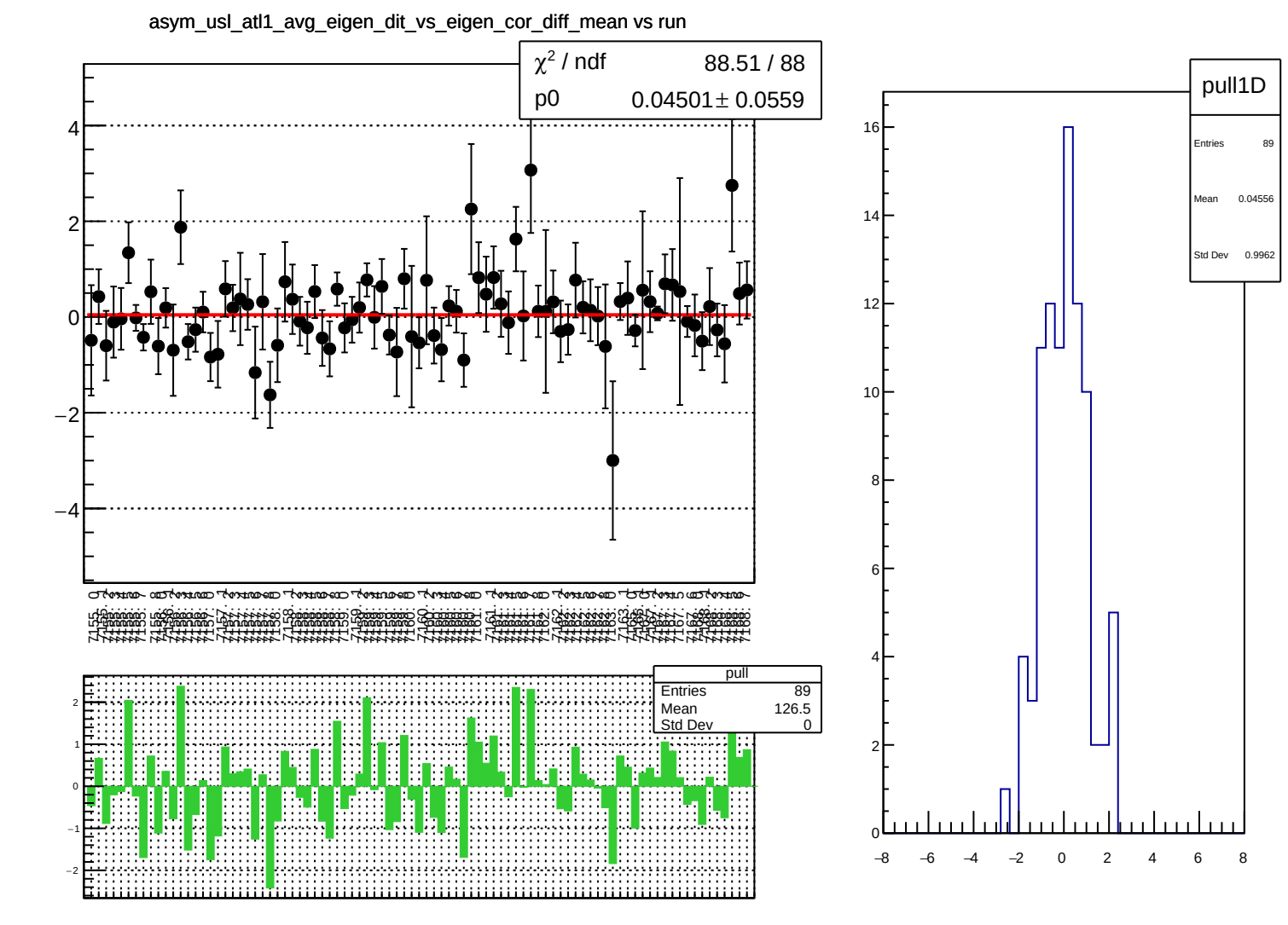

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.37 / 88
p0 1.209e−06 ± 1.652e−06
pull
Entries 89
Mean 13.63
Std Dev 0

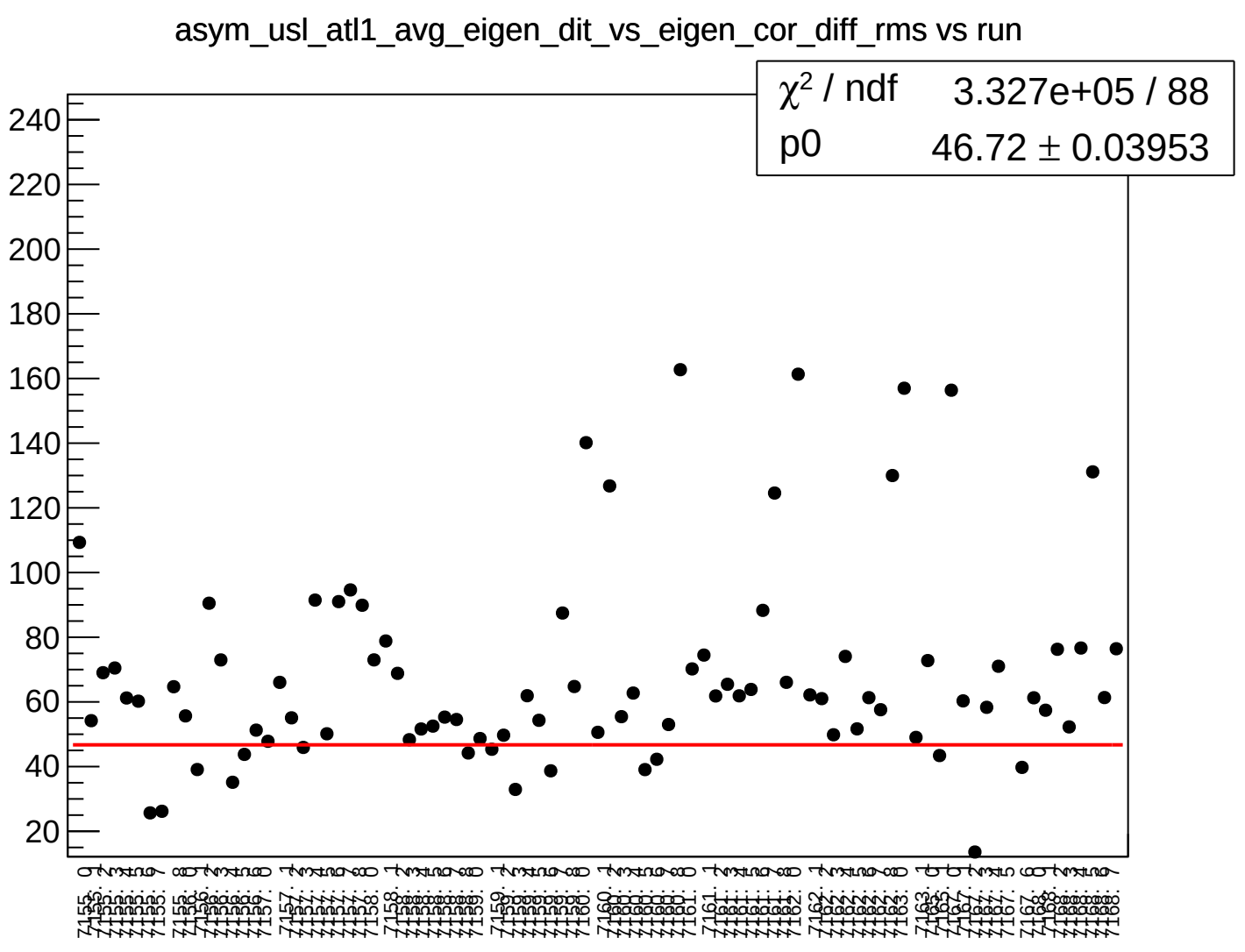

pull1D
Entries 89
Mean 0.01499
Std Dev 0.7886

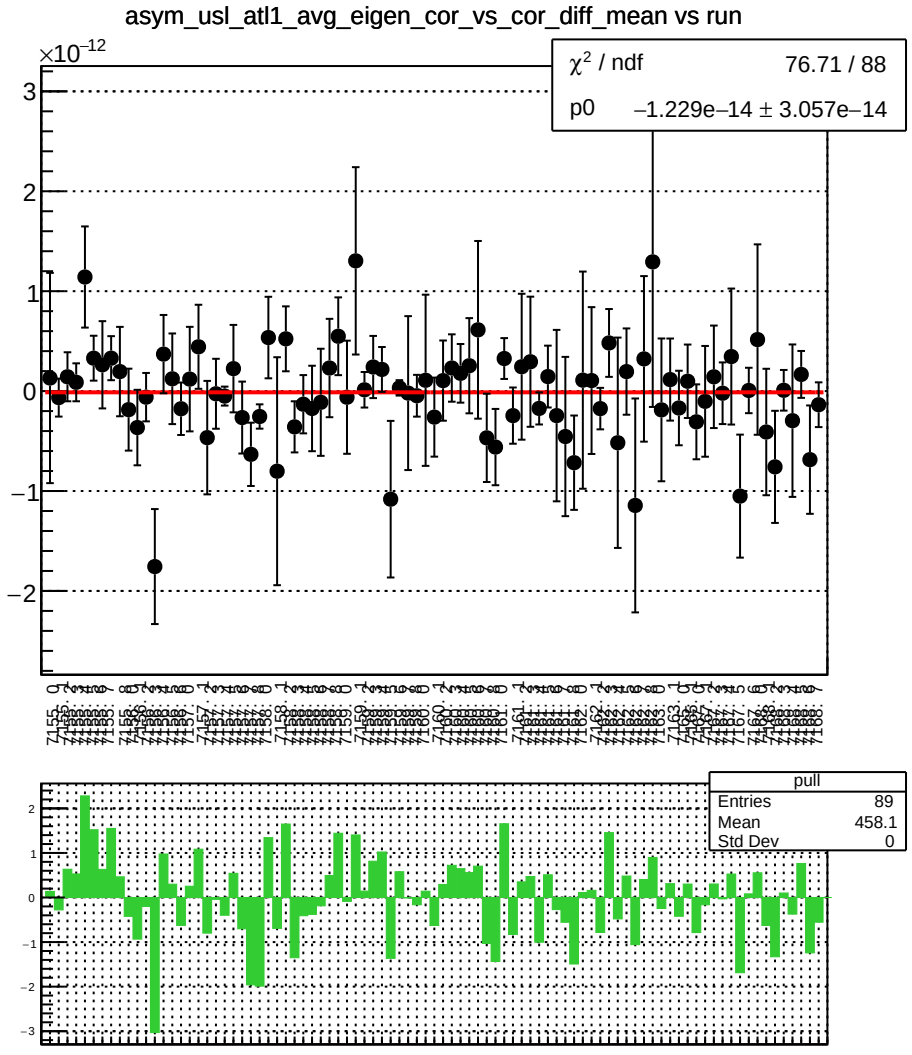

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9910 / 88
p0 0.001532 ± 1.168e−06
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013

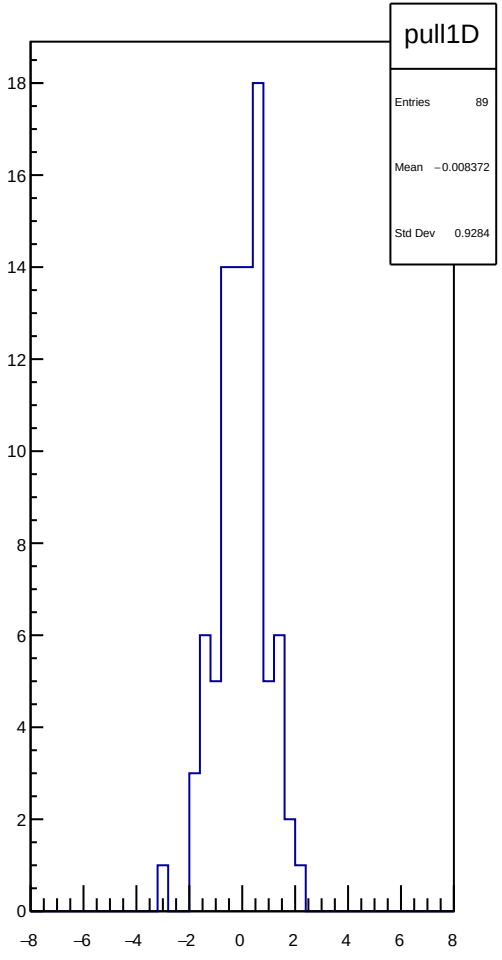

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.51 / 88
p0 0.04501 ± 0.0559
pull
Entries 89
Mean 126.5
Std Dev 0
pull1D
Entries 89
Mean 0.04556
Std Dev 0.9962

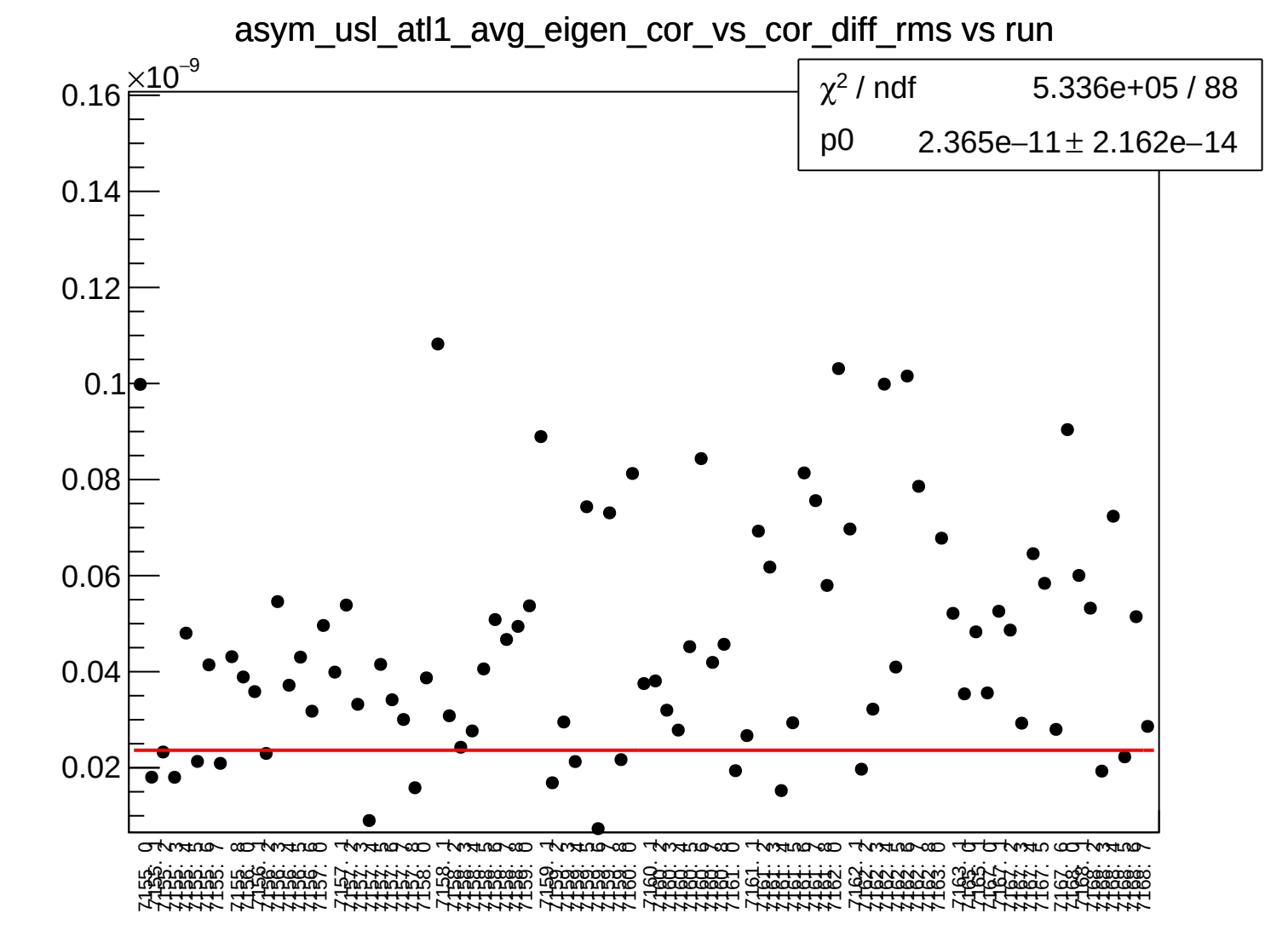

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.327e+05 / 88
p0 46.72 ± 0.03953
240
220
200
180
160
140
120
100
80
60
40
20

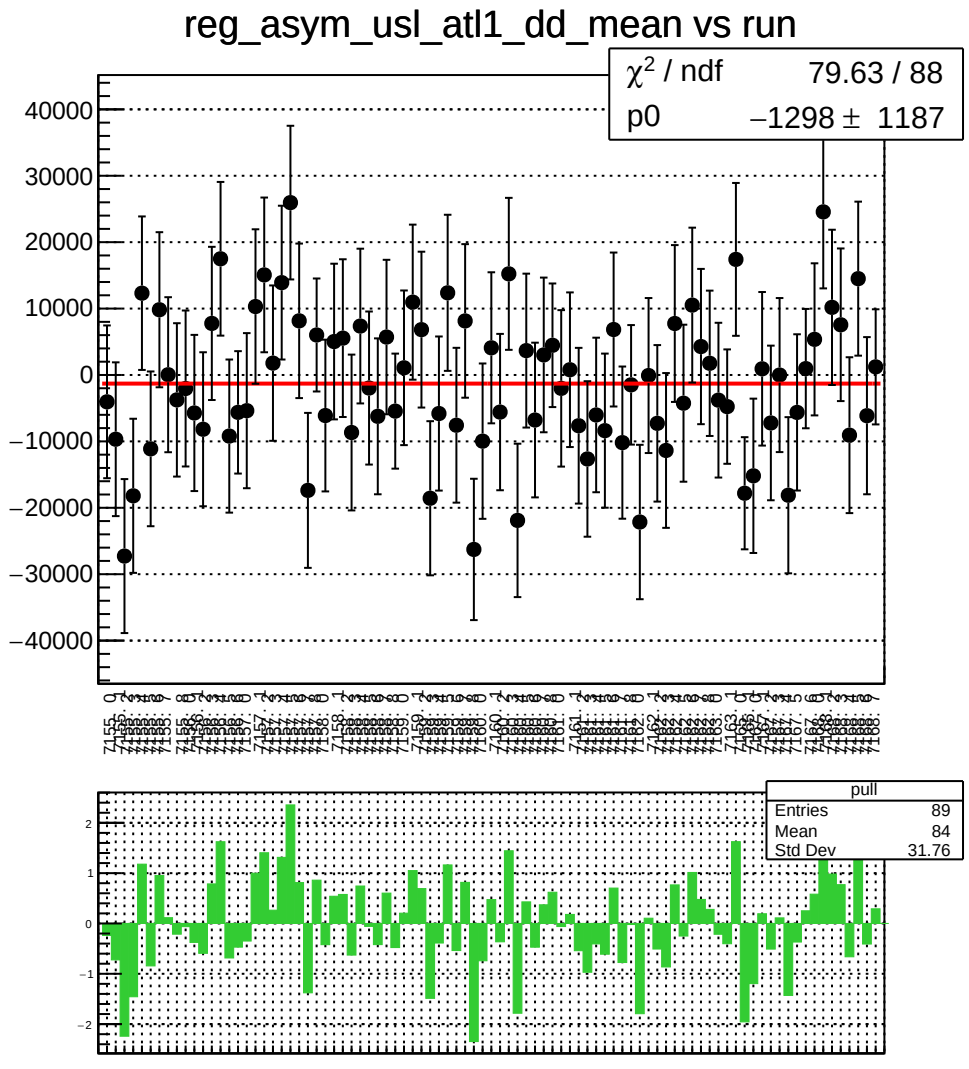

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.51 / 88
p0 0.04501 ± 0.0559
pull
Entries 89
Mean 126.5
Std Dev 0
pull1D
Entries 89
Mean 0.04556
Std Dev 0.9962

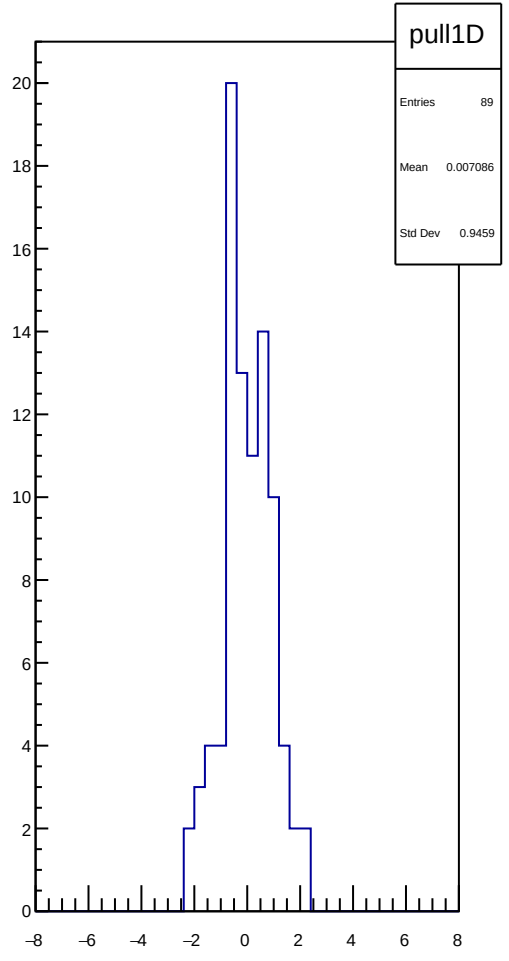

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.327e+05 / 88
p0 46.72 ± 0.03953
240
220
200
180
160
140
120
100
80
60
40
20

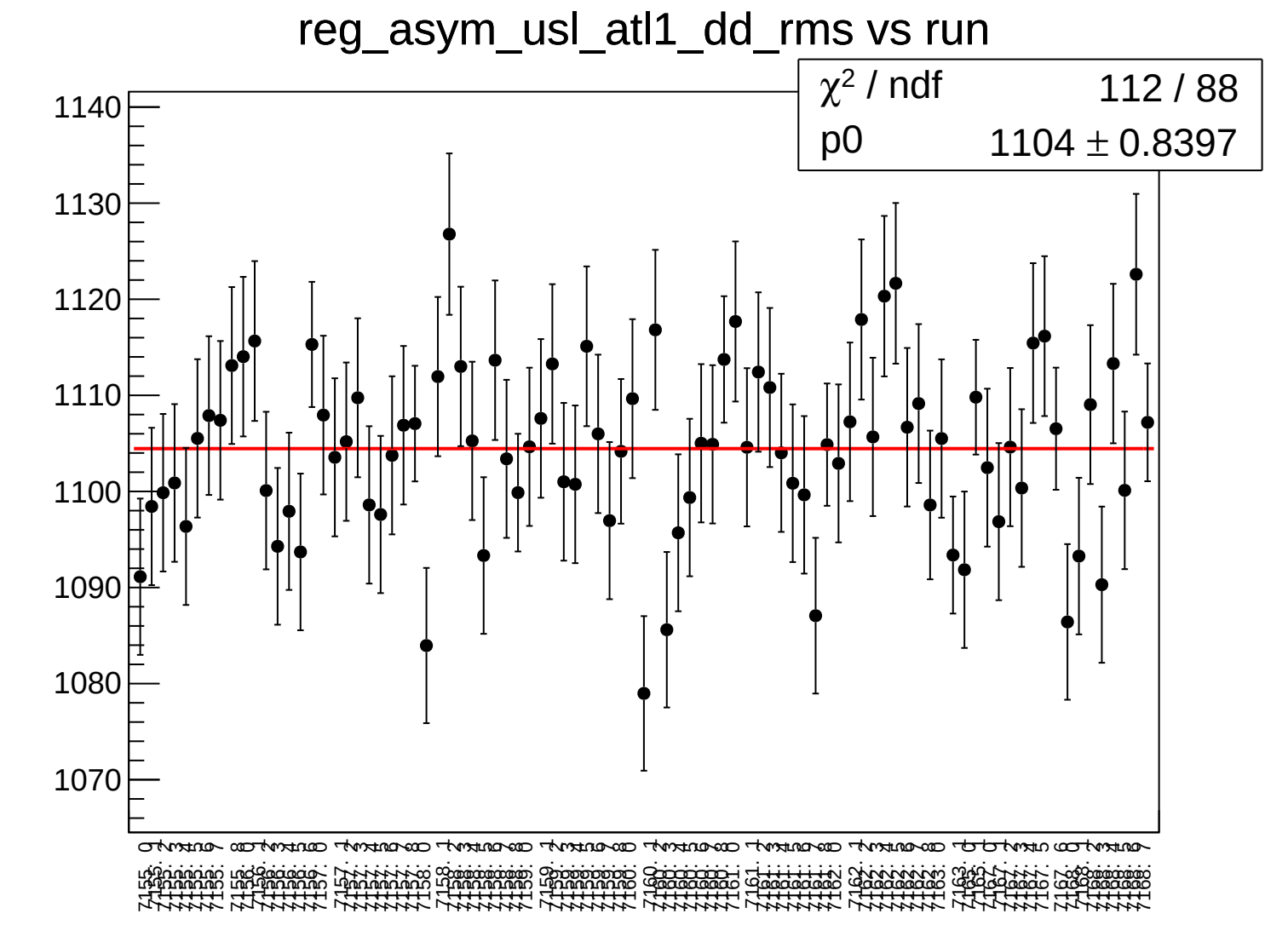

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.71 / 88
p0 −1.229e−14 ± 3.057e−14
pull
Entries 89
Mean 458.1
Std Dev 0

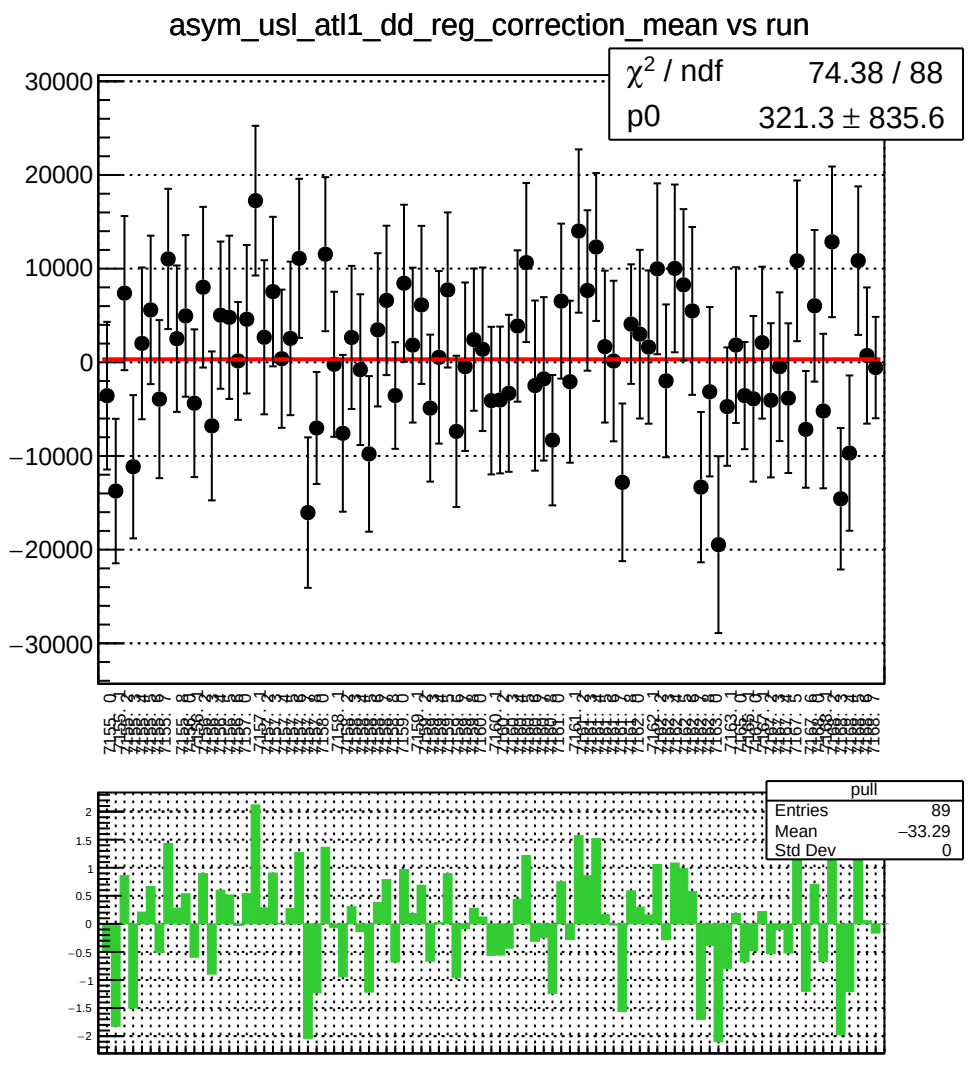

pull1D
Entries 89
Mean −0.008372
Std Dev 0.9284

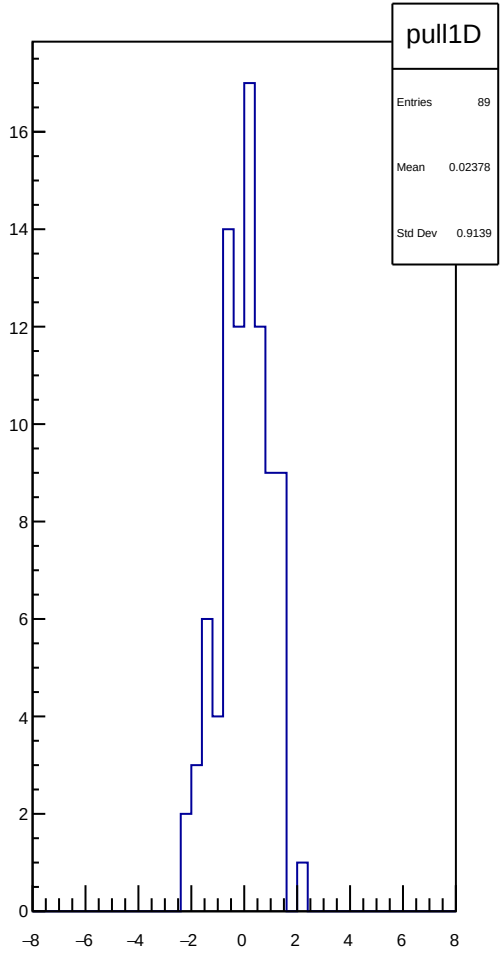

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
χ^2 / ndf 5.336e+05 / 88
p0 2.365e−11 ± 2.162e−14
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

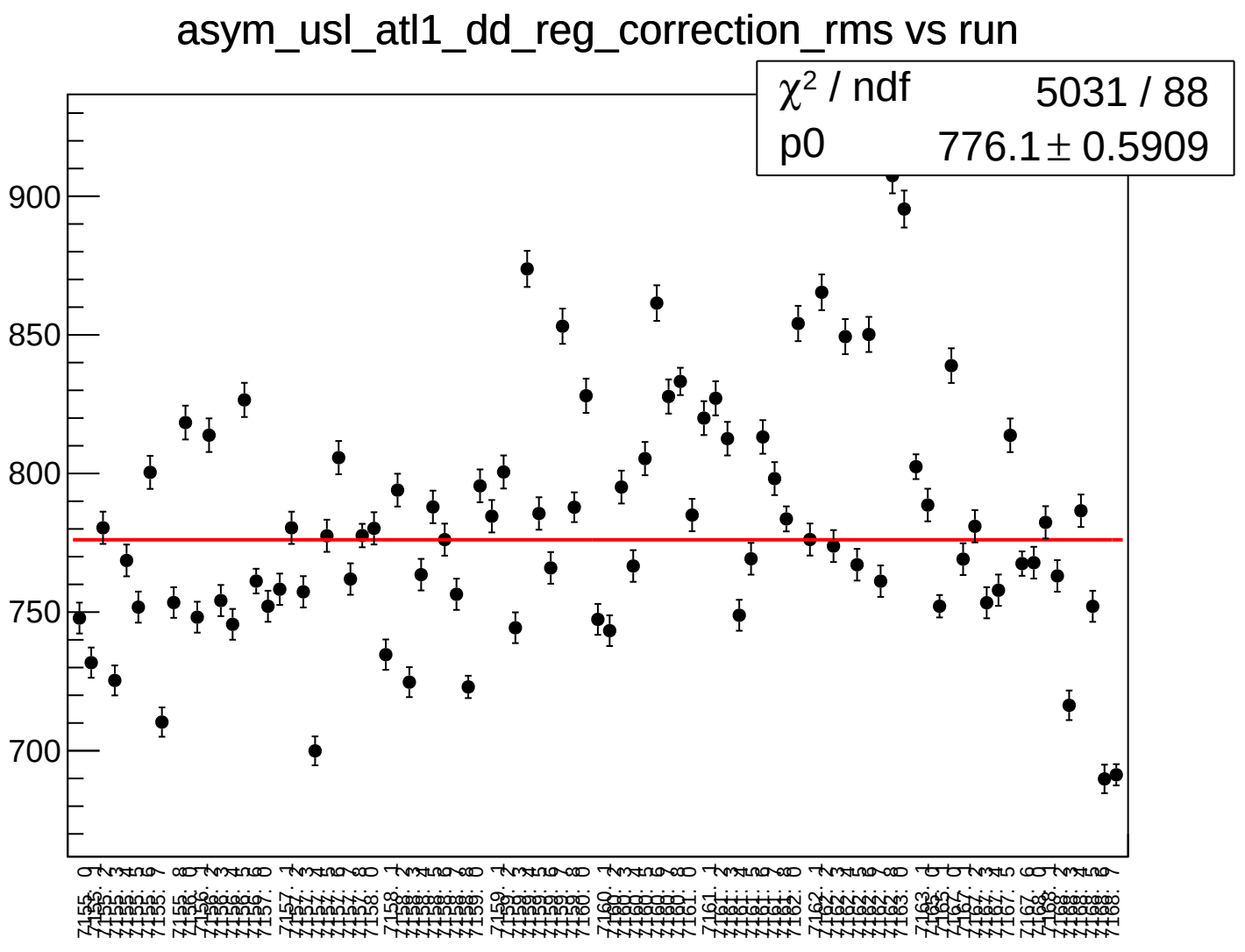

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.63 / 88
p0 −1298 ± 1187
pull
Entries 89
Mean 84
Std Dev 31.76

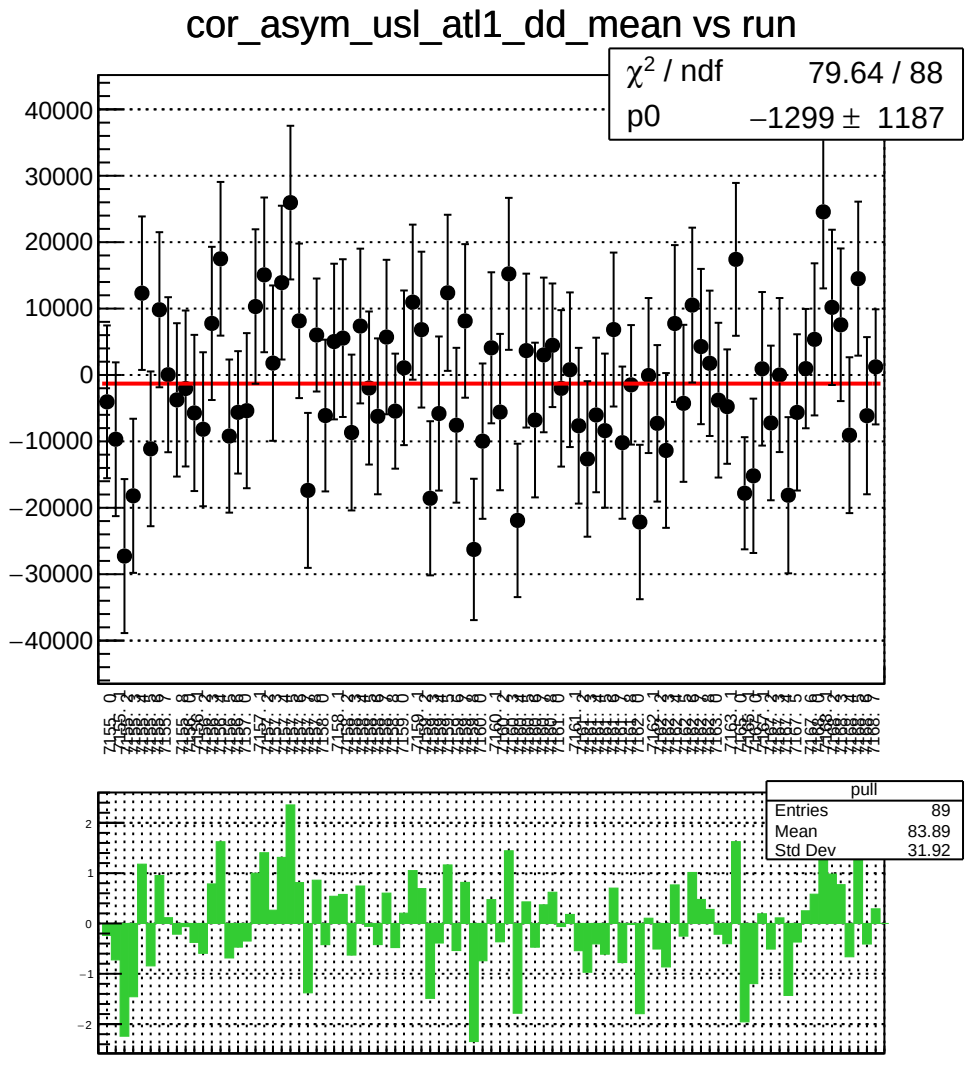

pull1D
Entries 89
Mean 0.007086
Std Dev 0.9459

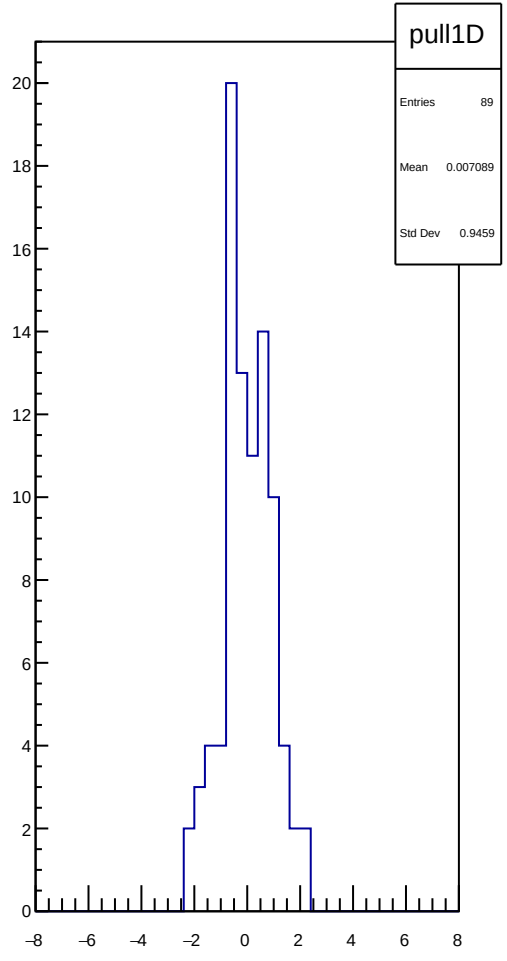

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 88
p0 1104 ± 0.8397
1140
1130
1120
1110
1100
1090
1080
1070

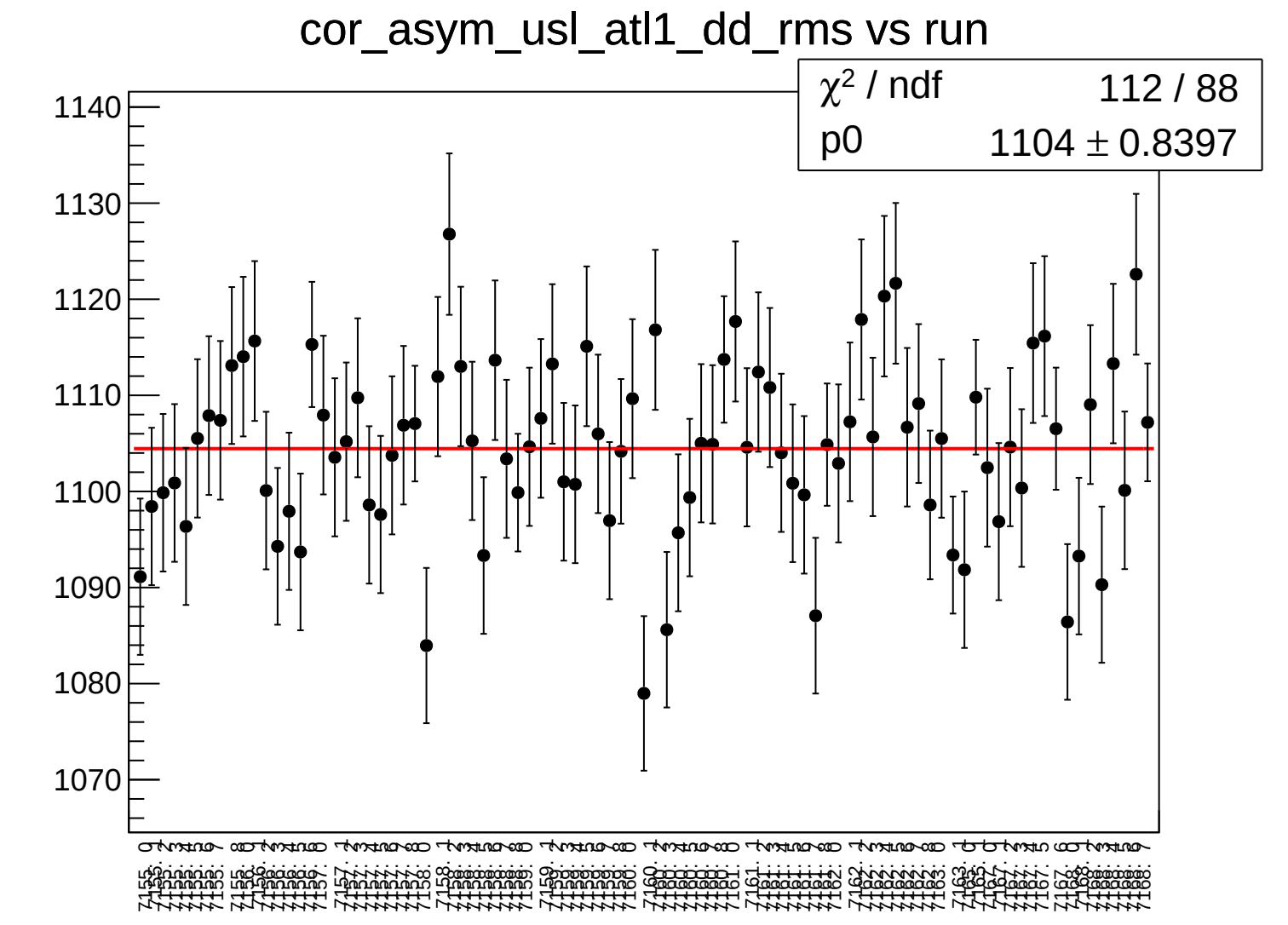

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 74.38 / 88
p0 321.3 ± 835.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −33.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

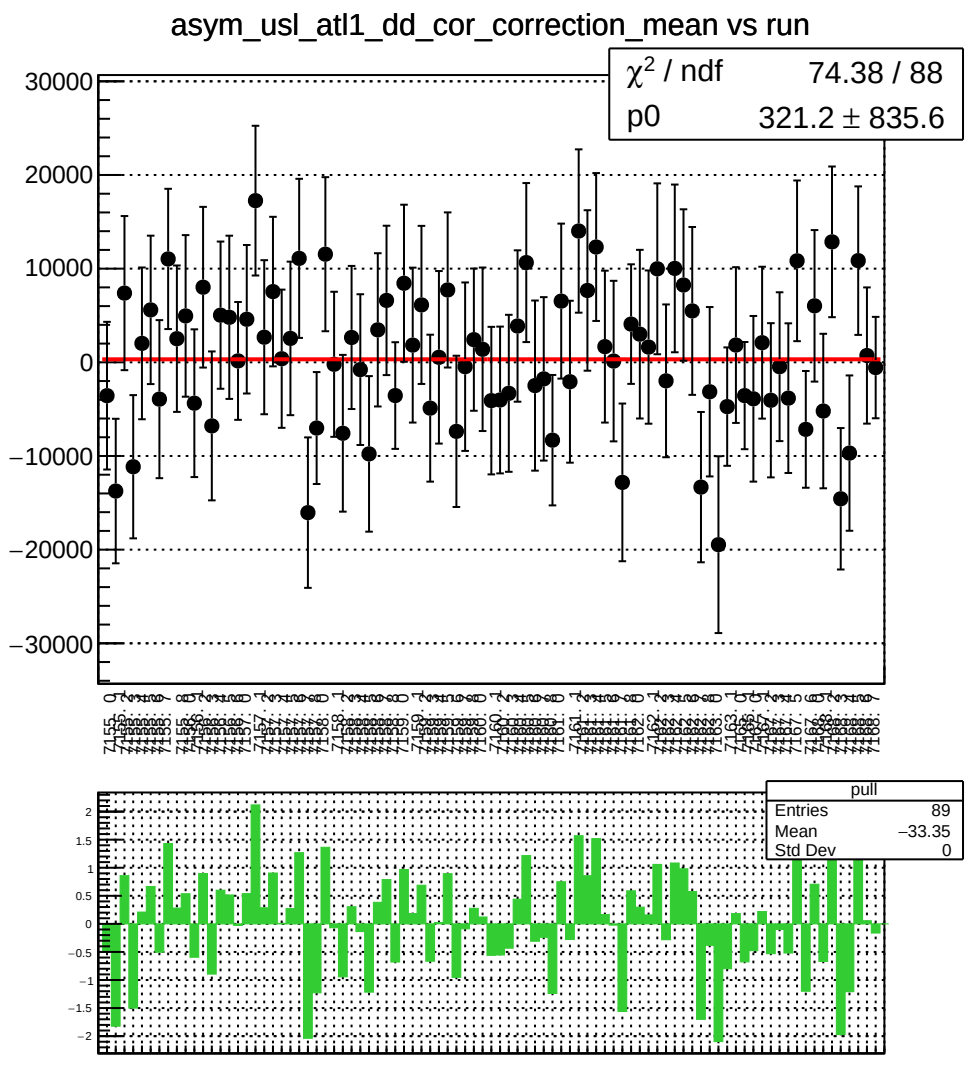

pull1D
Entries 89
Mean 0.02378
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

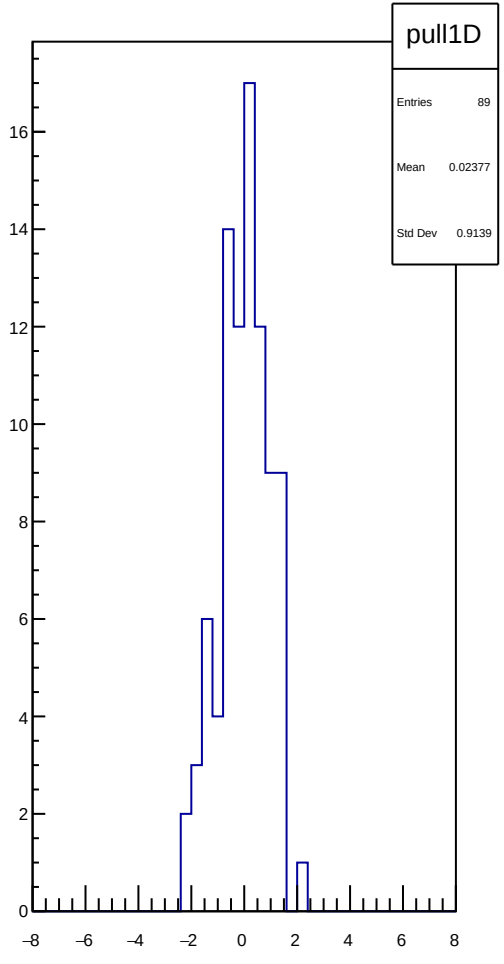

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 5031 / 88
p0 776.1 ± 0.5909
900
850
800
750
700

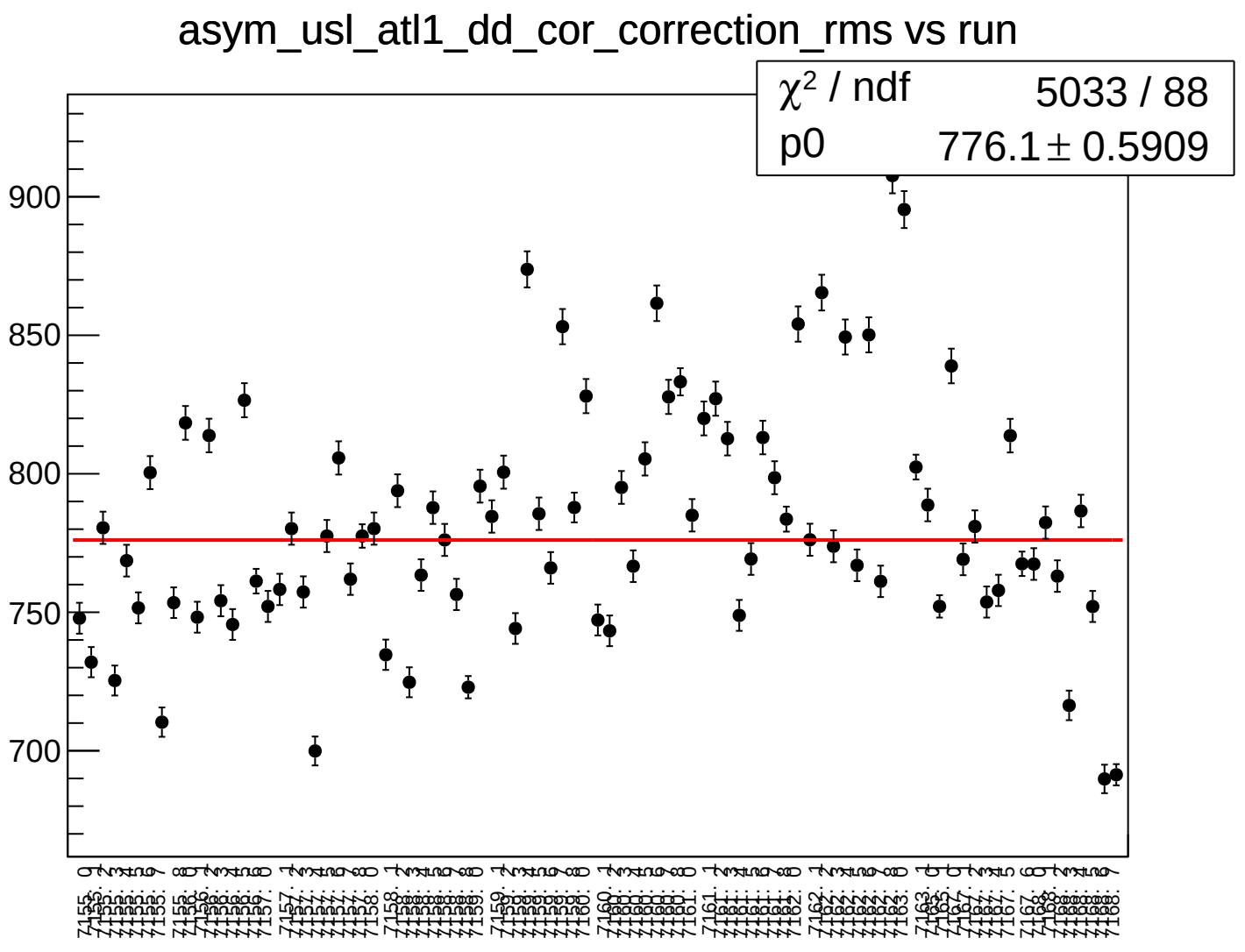

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.64 / 88
p0 −1299 ± 1187
pull
Entries 89
Mean 83.89
Std Dev 31.92

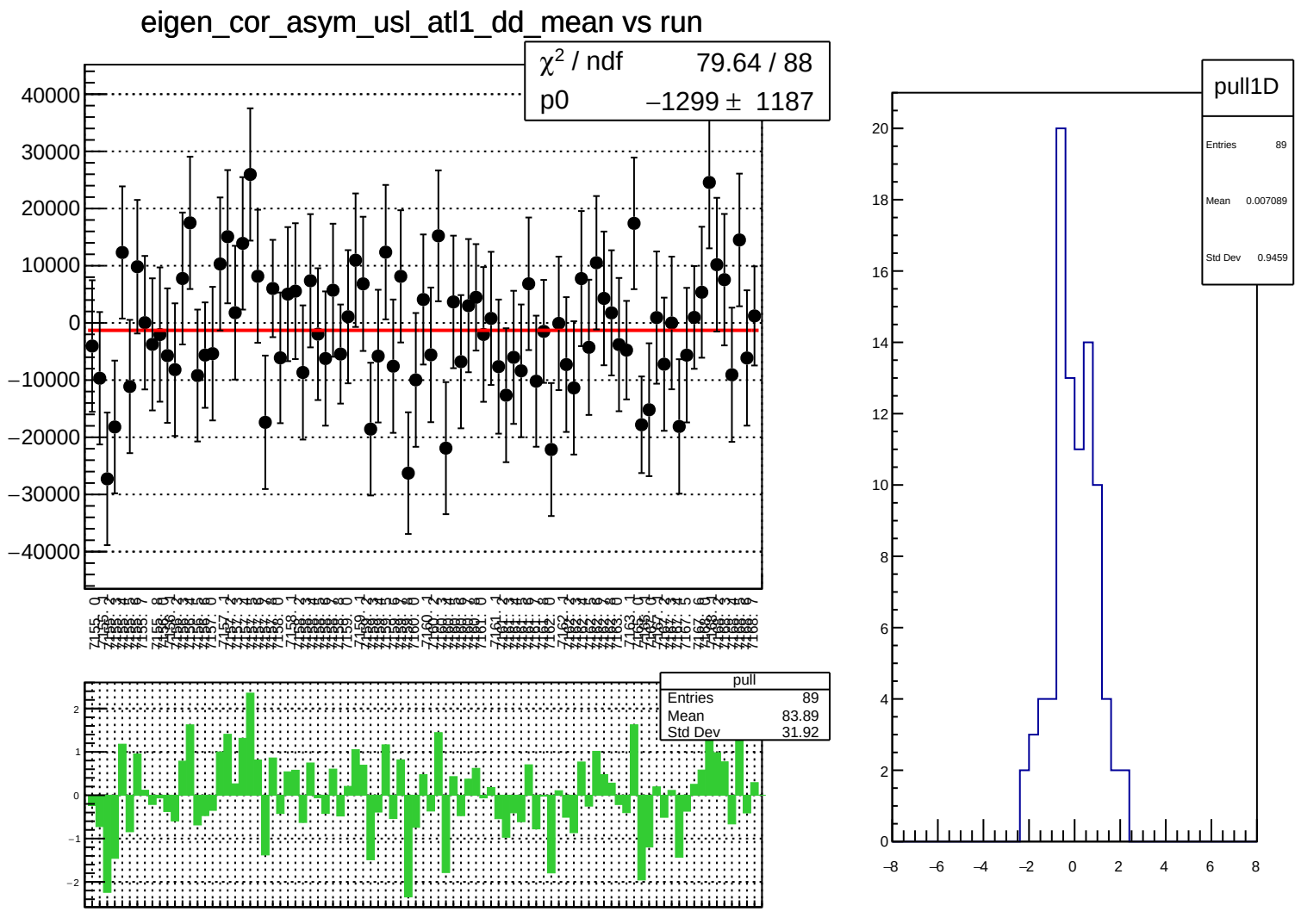

pull1D
Entries 89
Mean 0.007089
Std Dev 0.9459

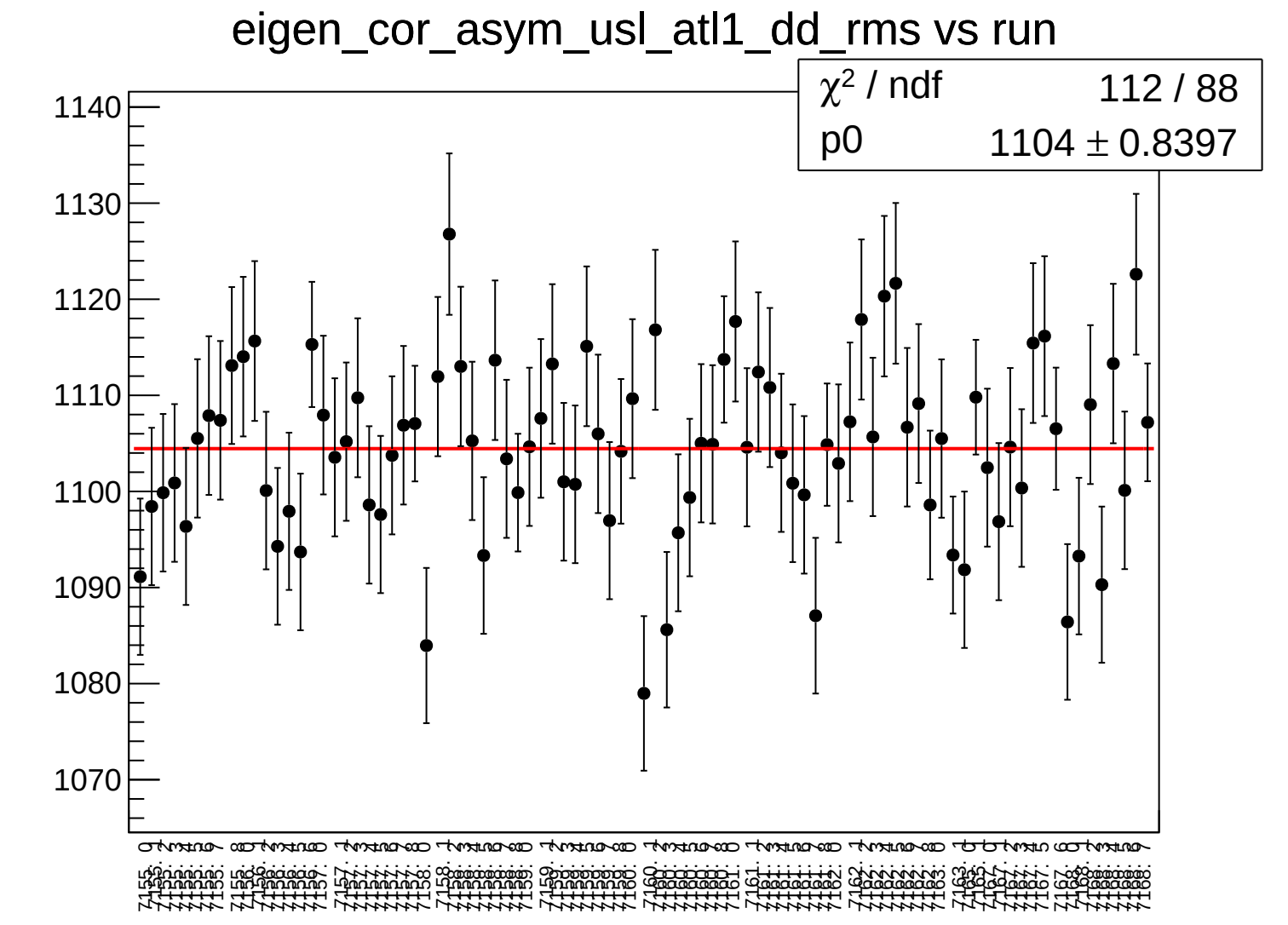

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 88
p0 1104 ± 0.8397
1140
1130
1120
1110
1100
1090
1080
1070

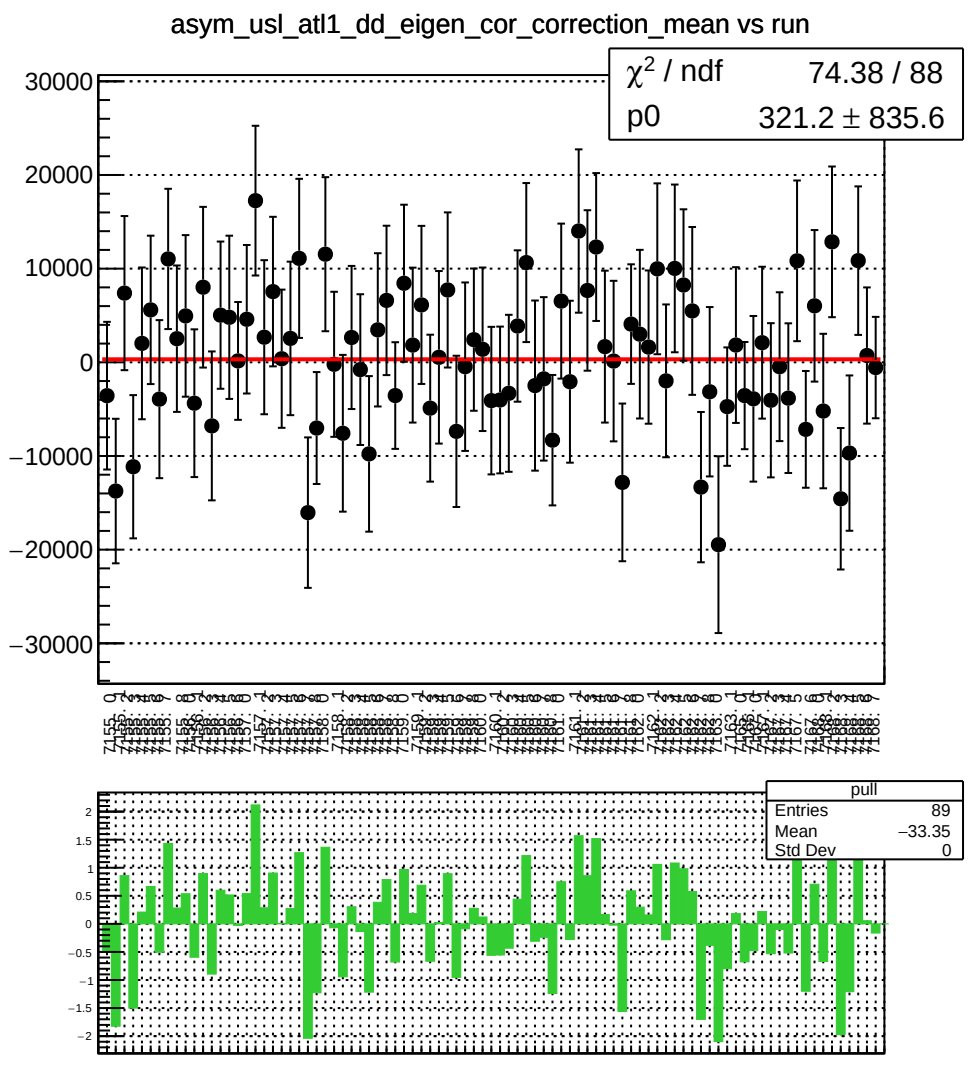

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 74.38 / 88
p0 321.2 ± 835.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −33.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

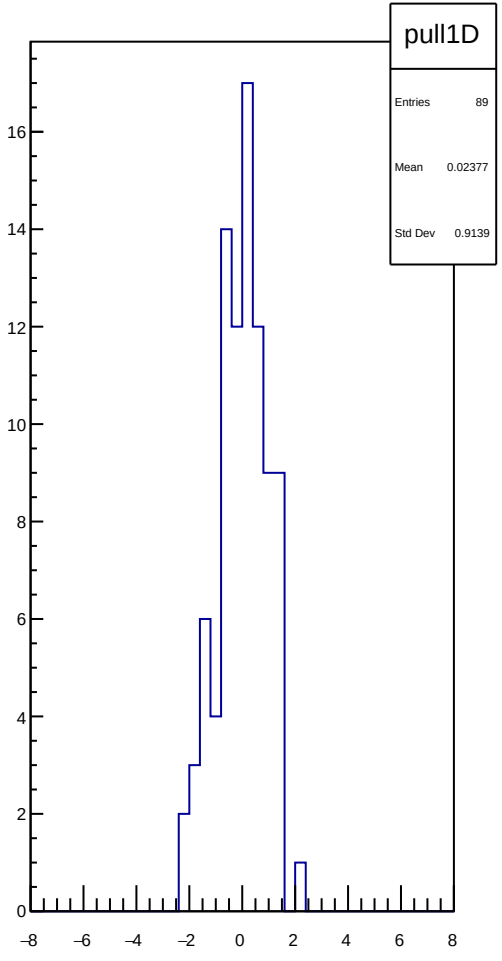

pull1D
Entries 89
Mean 0.02377
Std Dev 0.9139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

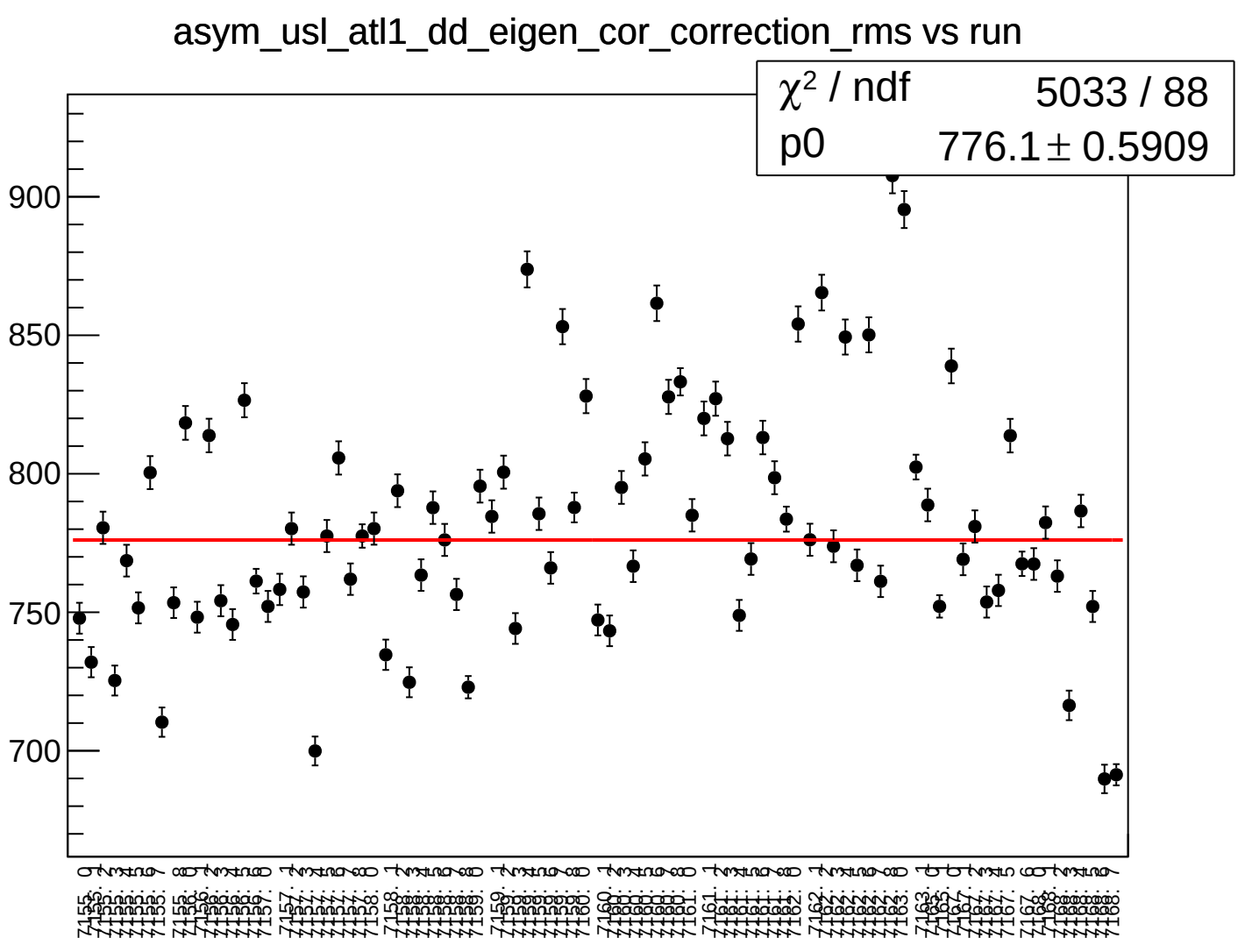

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 5033 / 88
p0 776.1 ± 0.5909
900
850
800
750
700

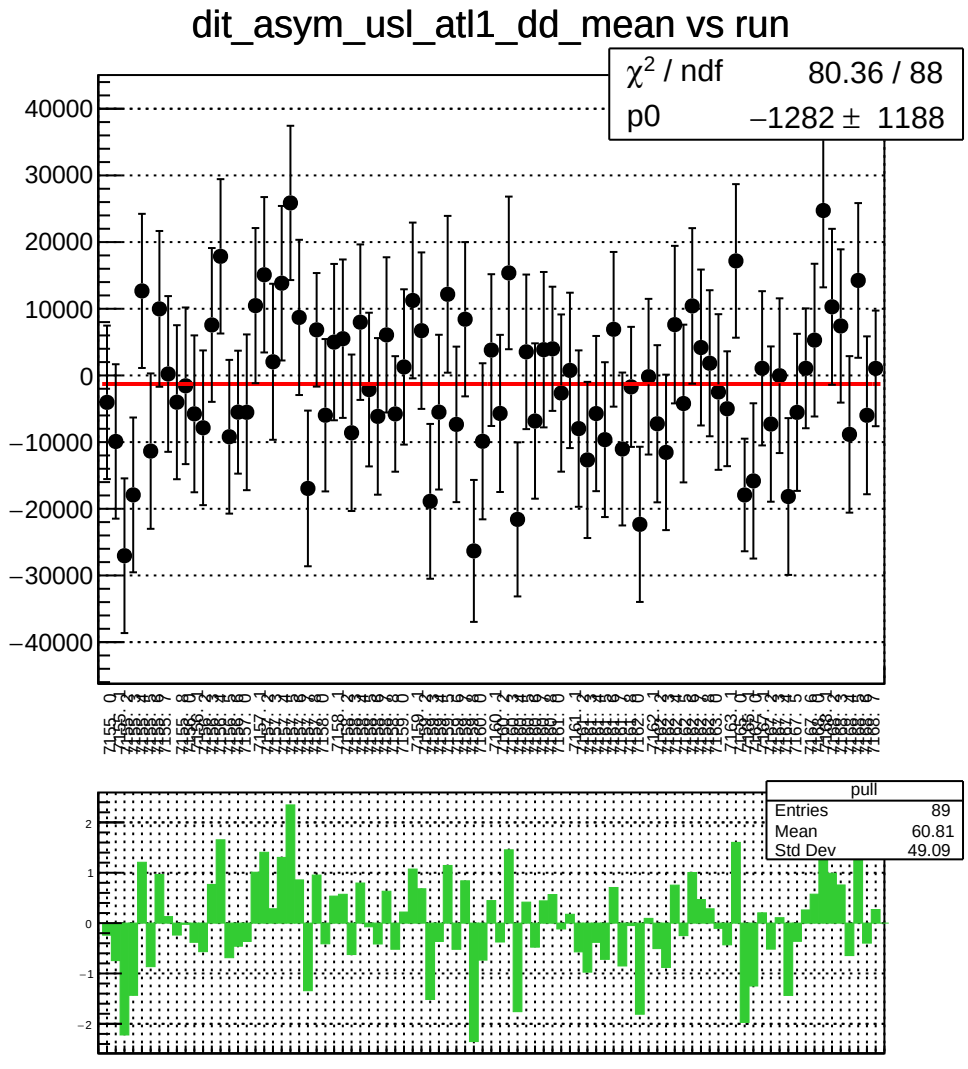

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 79.64 / 88
p0 −1299 ± 1187
pull
Entries 89
Mean 83.89
Std Dev 31.92
pull1D
Entries 89
Mean 0.007089
Std Dev 0.9459

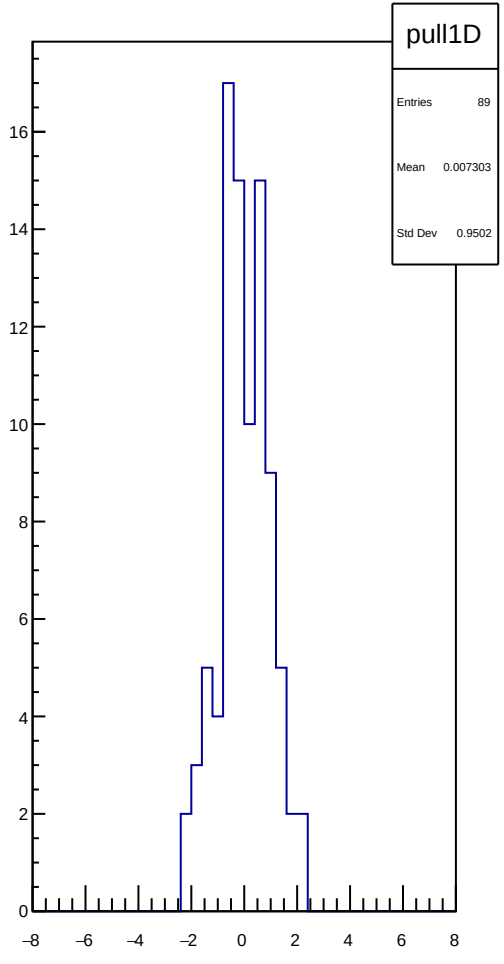

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 112 / 88
p0 1104 ± 0.8397
1140
1130
1120
1110
1100
1090
1080
1070

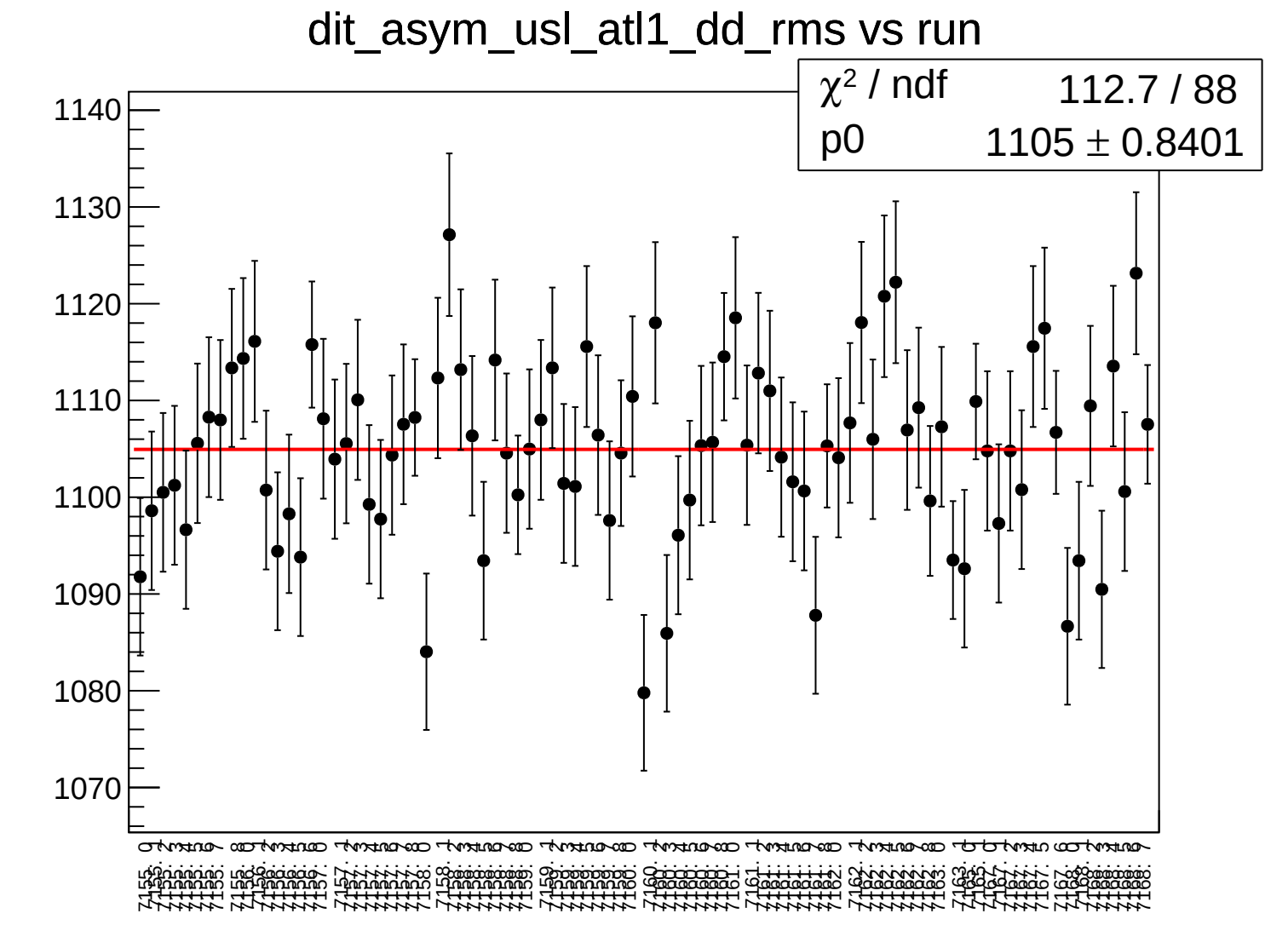

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.38 / 88
p0 321.2 ± 835.6
pull
Entries 89
Mean −33.35
Std Dev 0

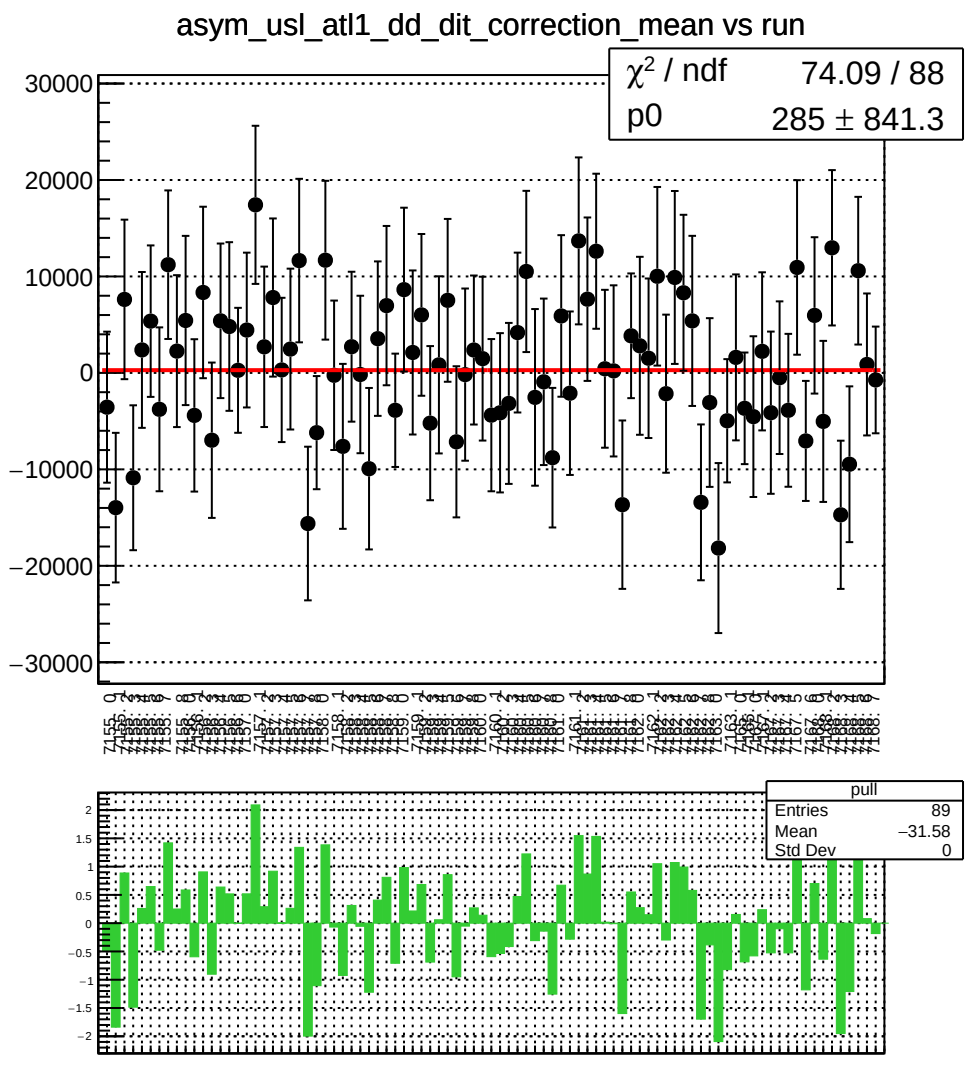

pull1D
Entries 89
Mean 0.02377
Std Dev 0.9139

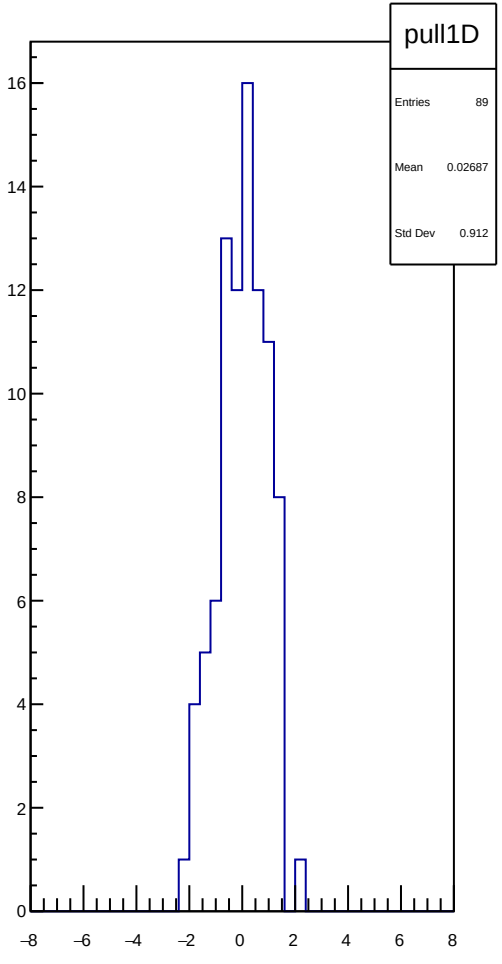

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 5033 / 88
p0 776.1 ± 0.5909
900
850
800
750
700

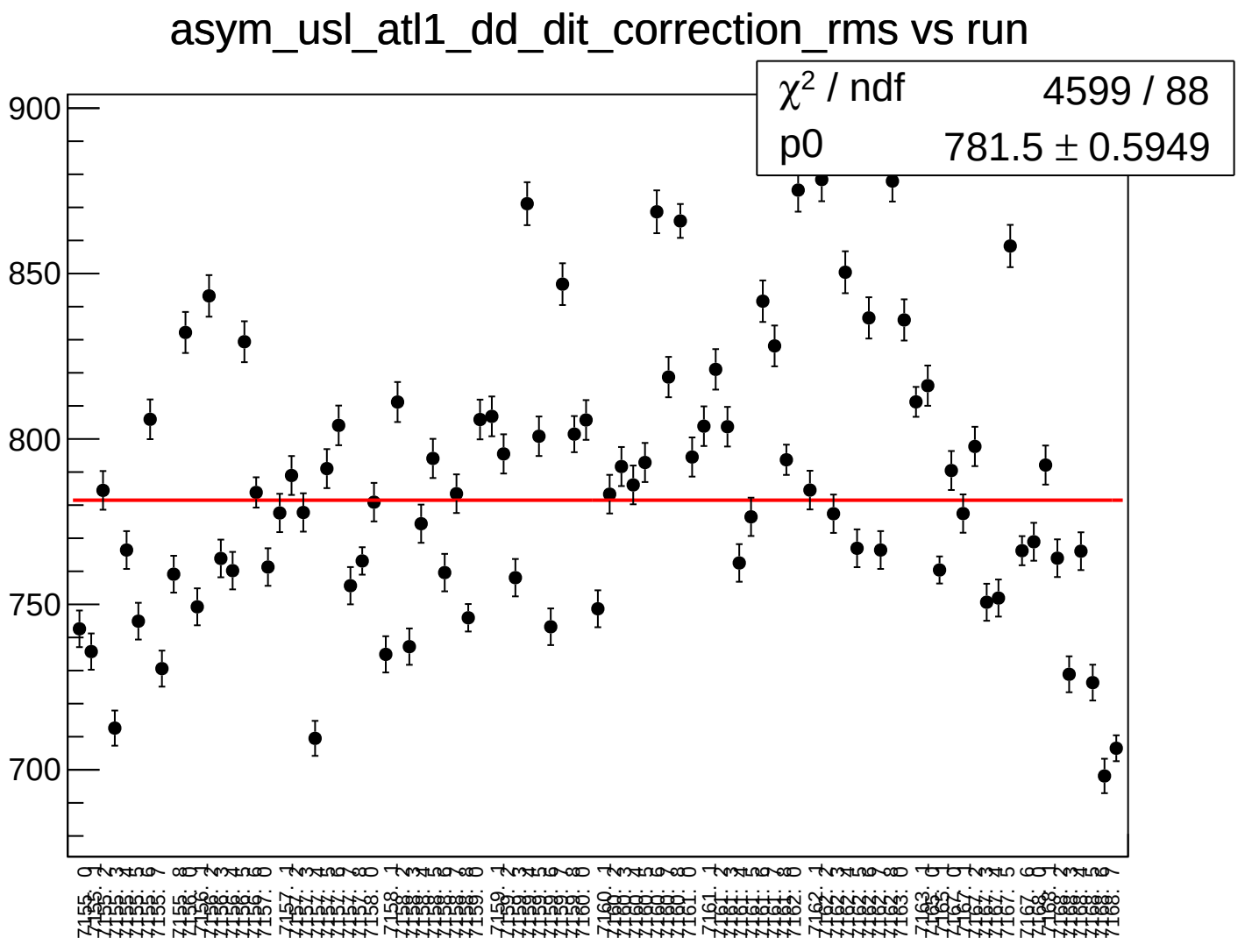

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.36 / 88
p0 −1282 ± 1188
pull
Entries 89
Mean 60.81
Std Dev 49.09

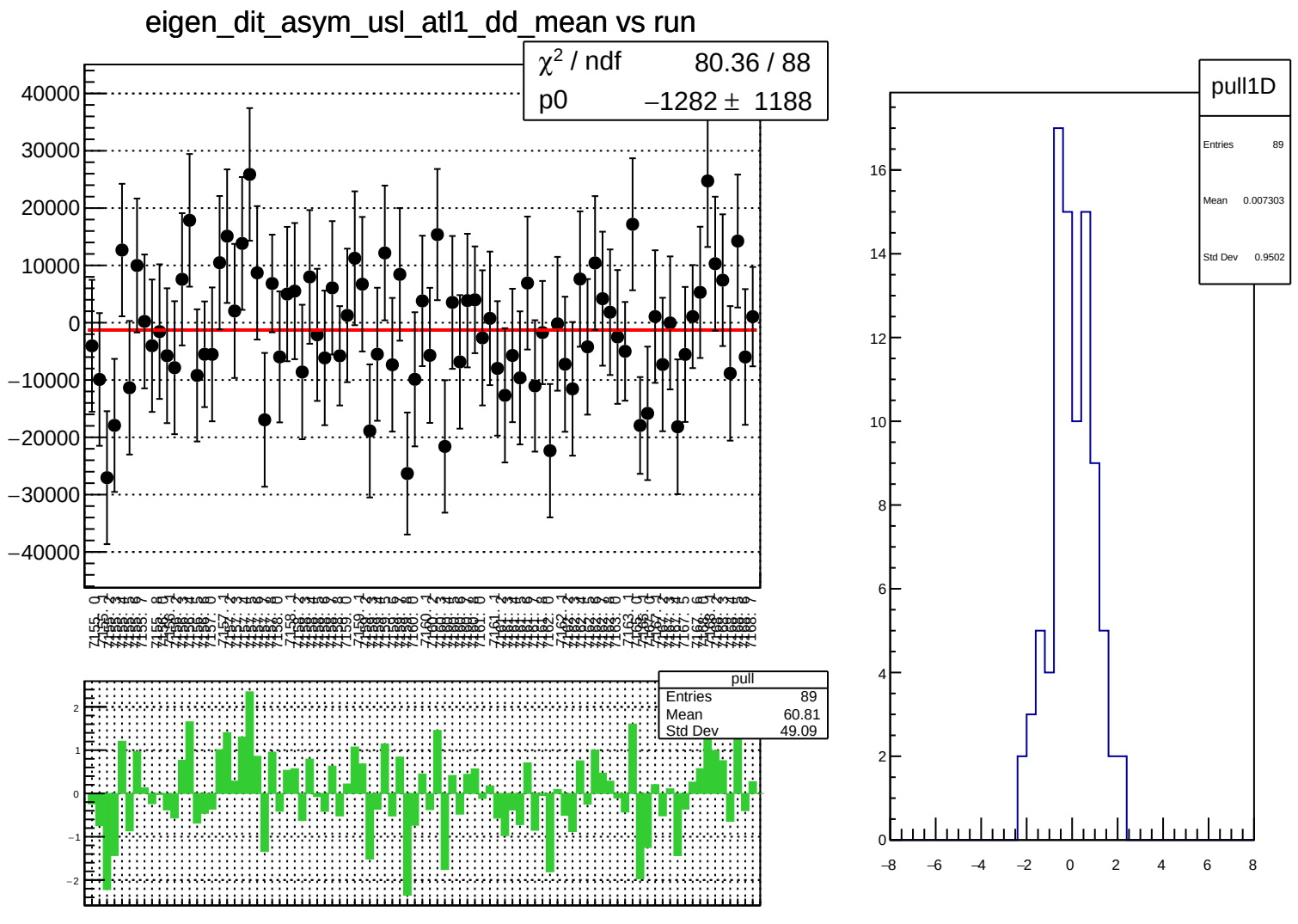

pull1D
Entries 89
Mean 0.007303
Std Dev 0.9502

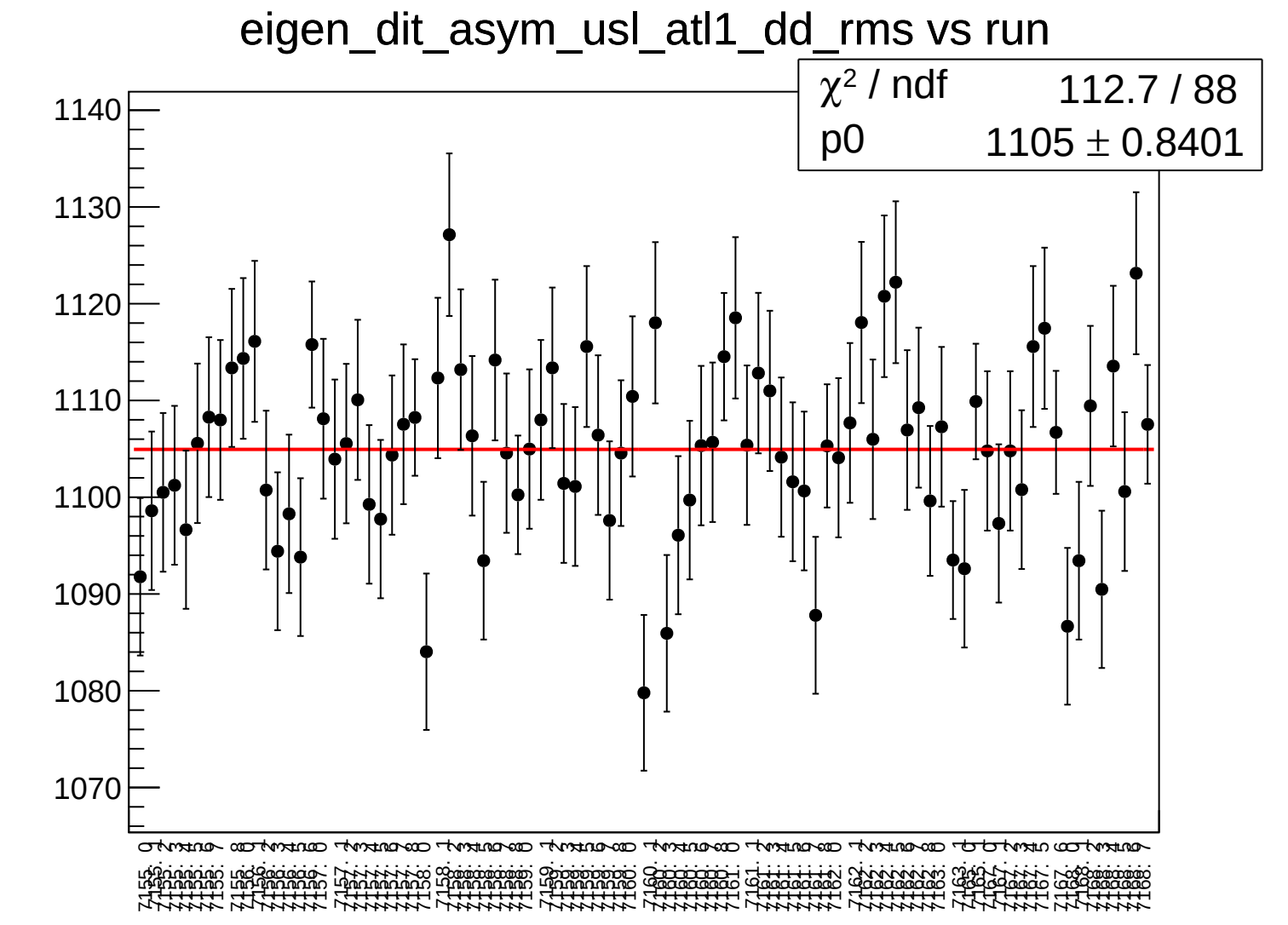

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 112.7 / 88
p0 1105 ± 0.8401
1140
1130
1120
1110
1100
1090
1080
1070

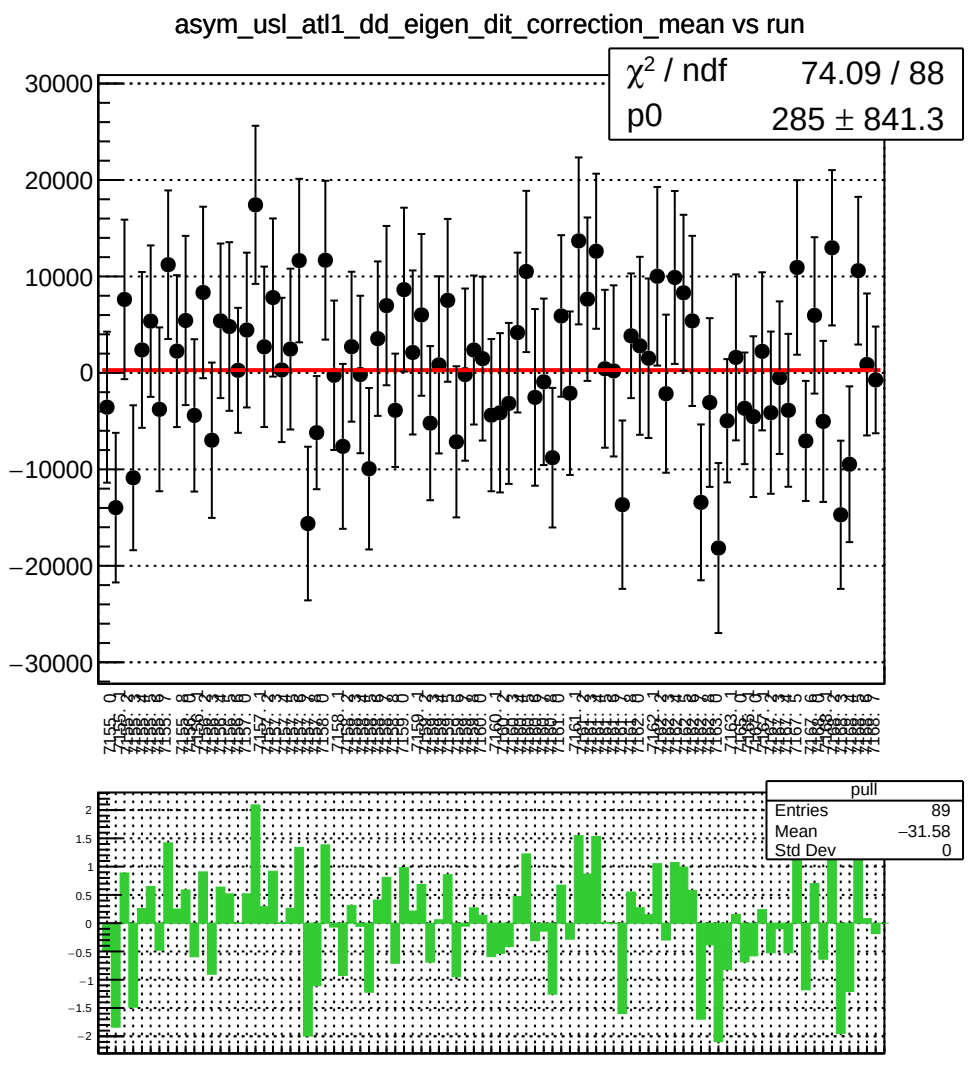

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 74.09 / 88
p0 285 ± 841.3
pull
Entries 89
Mean −31.58
Std Dev 0

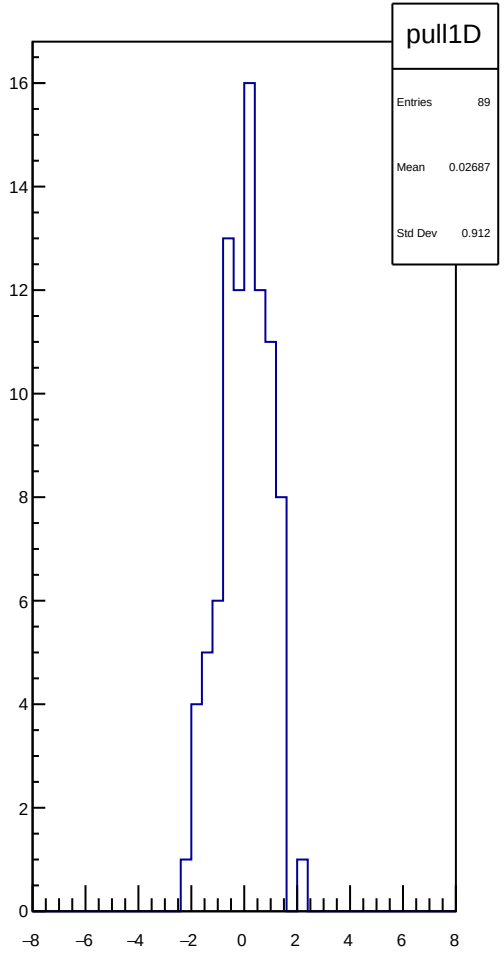

pull1D
Entries 89
Mean 0.02687
Std Dev 0.912

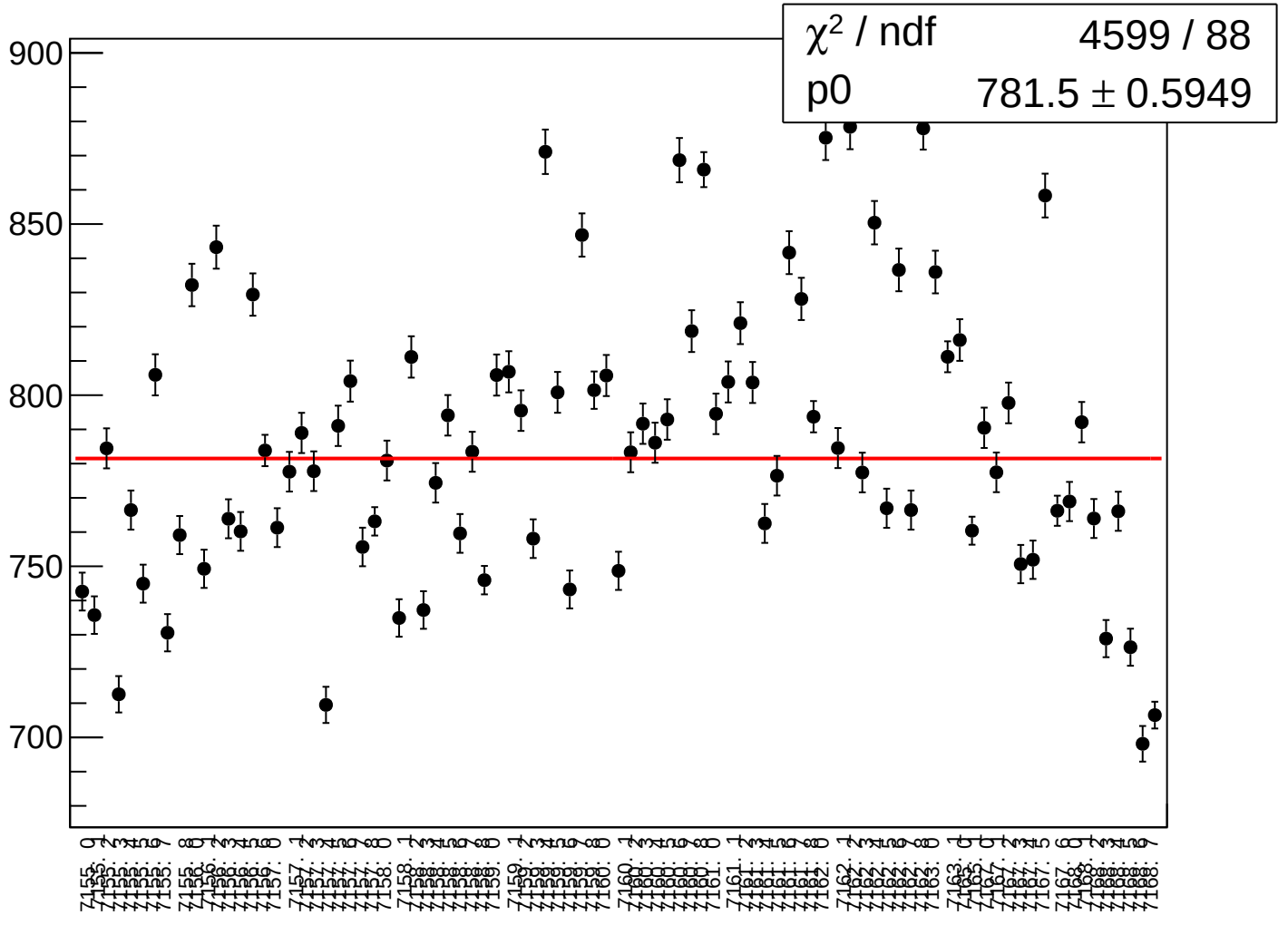

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 4599 / 88
p0 781.5 ± 0.5949
900
850
800
750
700

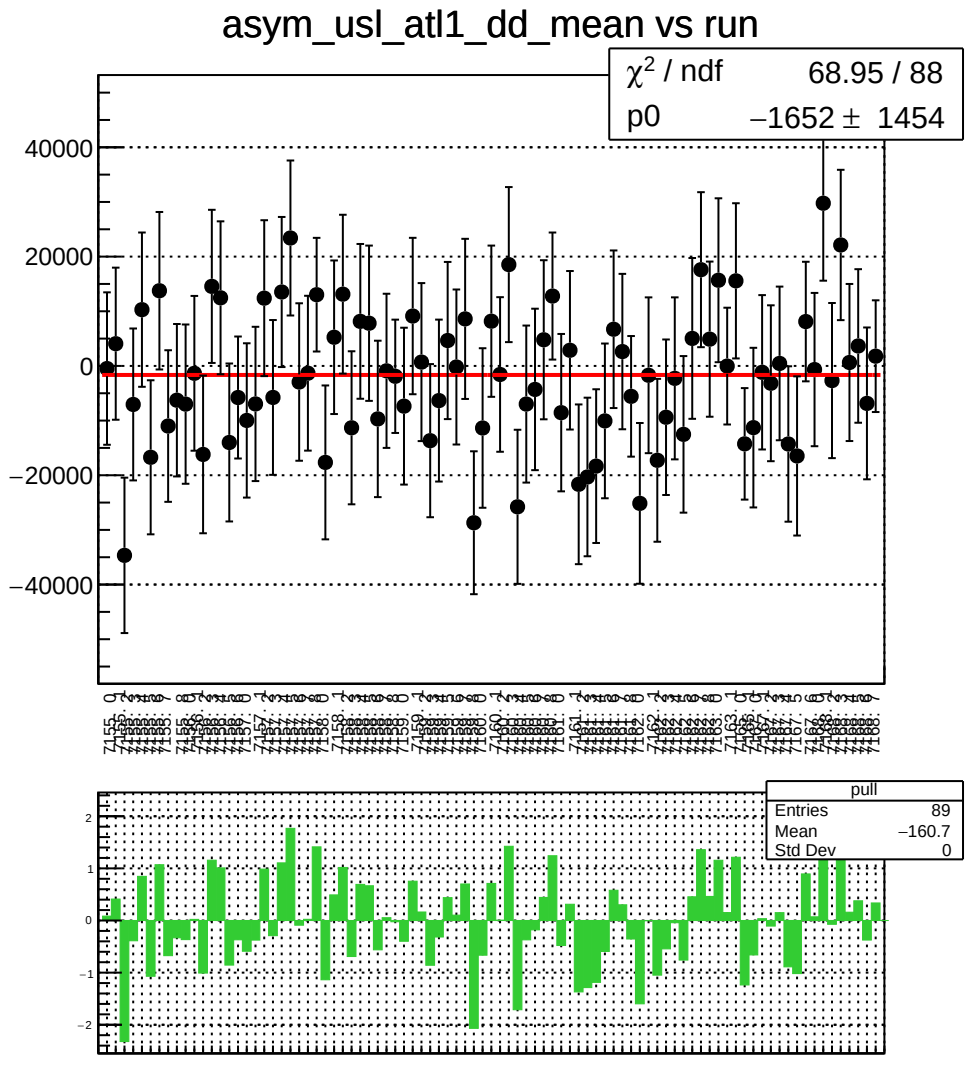

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 80.36 / 88
p0 −1282 ± 1188
pull
Entries 89
Mean 60.81
Std Dev 49.09
pull1D
Entries 89
Mean 0.007303
Std Dev 0.9502

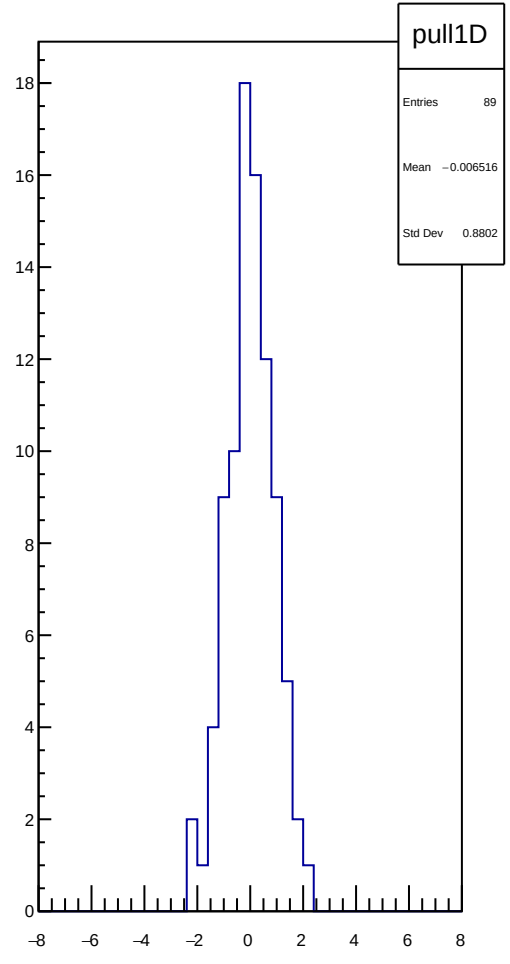

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 112.7 / 88
p0 1105 ± 0.8401
1140
1130
1120
1110
1100
1090
1080
1070

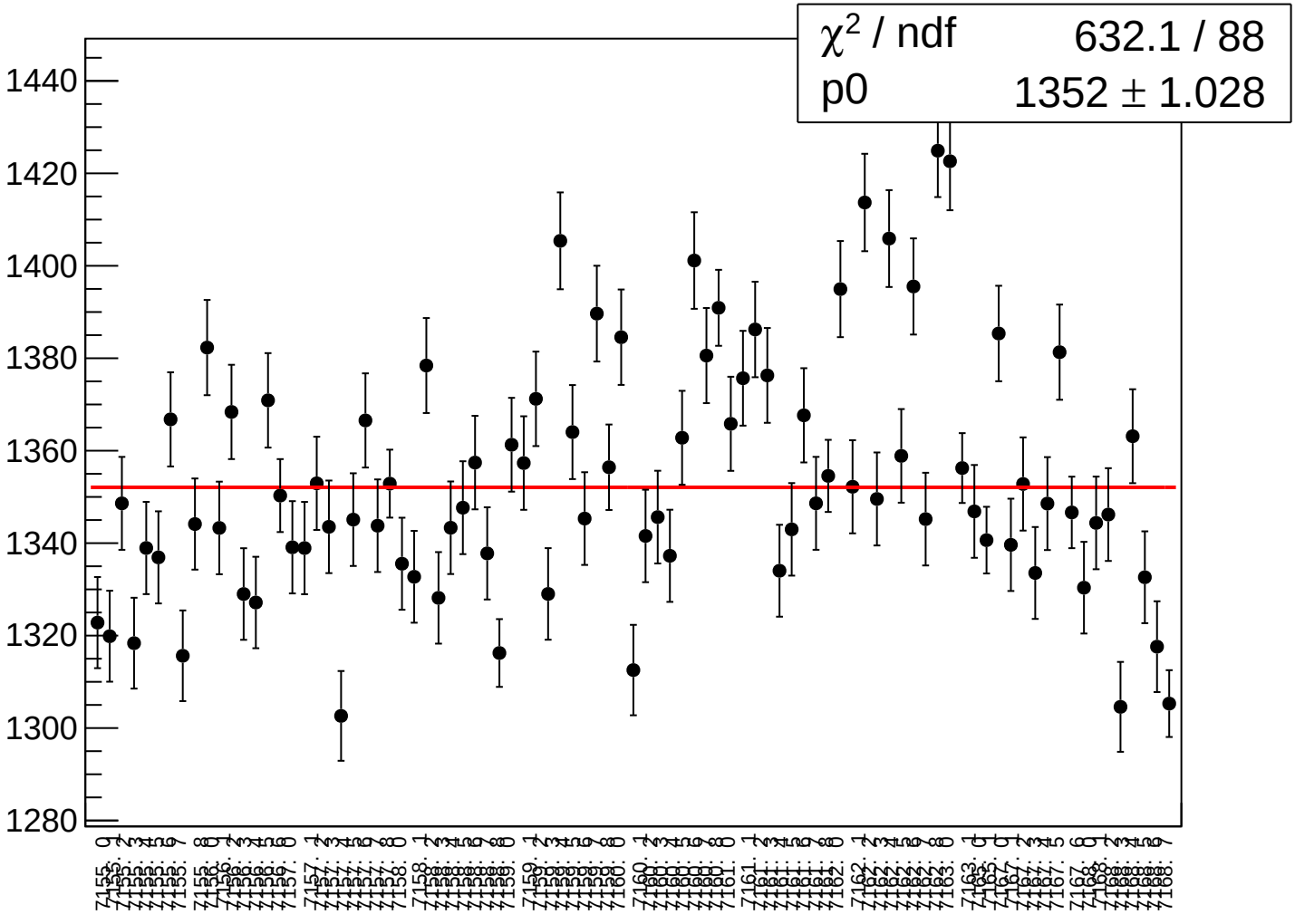

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 74.09 / 88
p0 285 ± 841.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −31.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

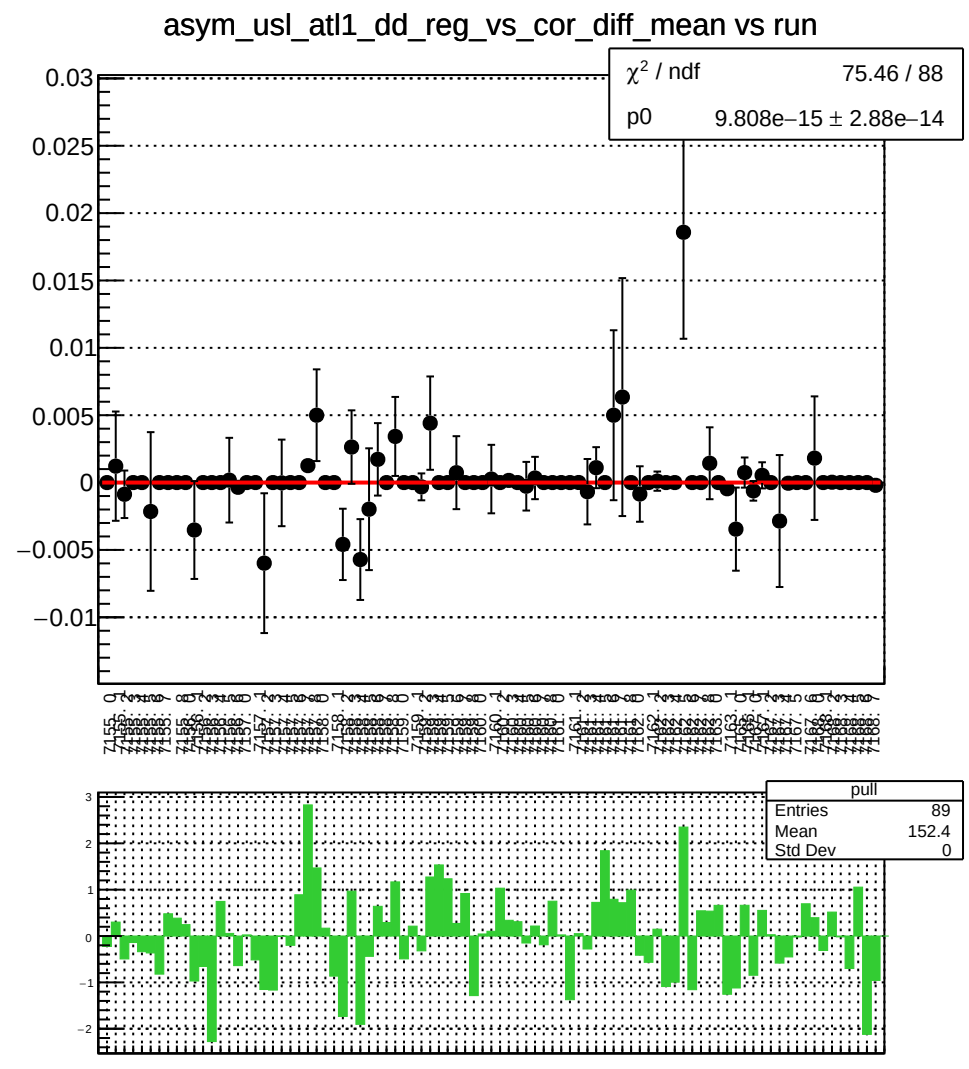

pull1D
Entries 89
Mean 0.02687
Std Dev 0.912
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

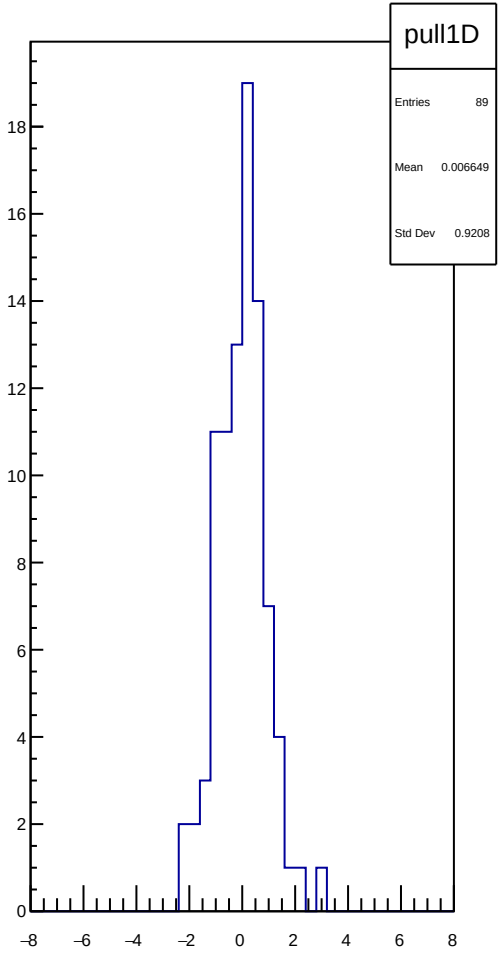

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4599 / 88
p0 781.5 ± 0.5949
900
850
800
750
700

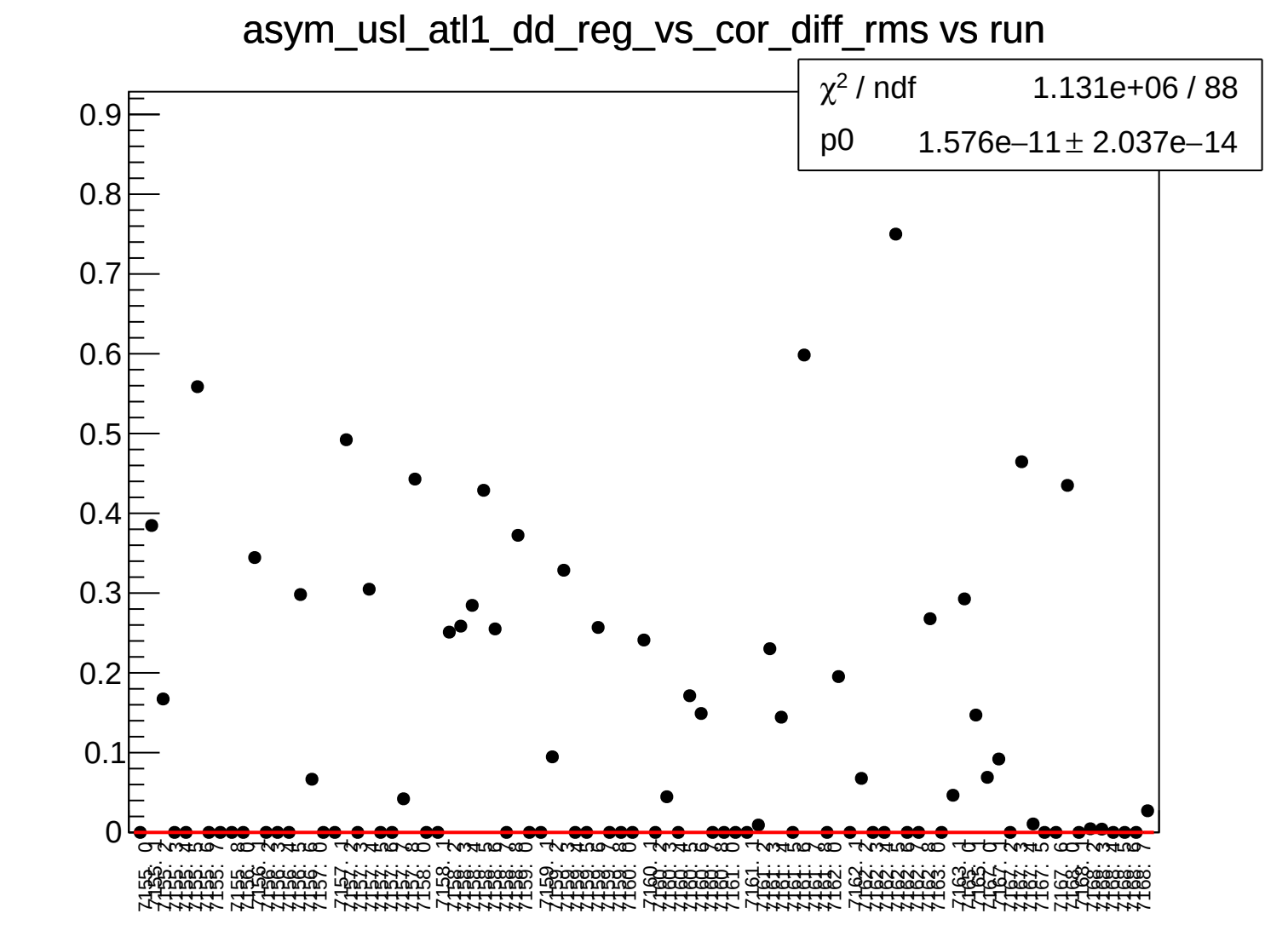

asym_usl_atl1_dd_mean vs run
χ² / ndf 68.95 / 88
p0 −1652 ± 1454
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −160.7
Std Dev 0
2
1
0
−1
−2

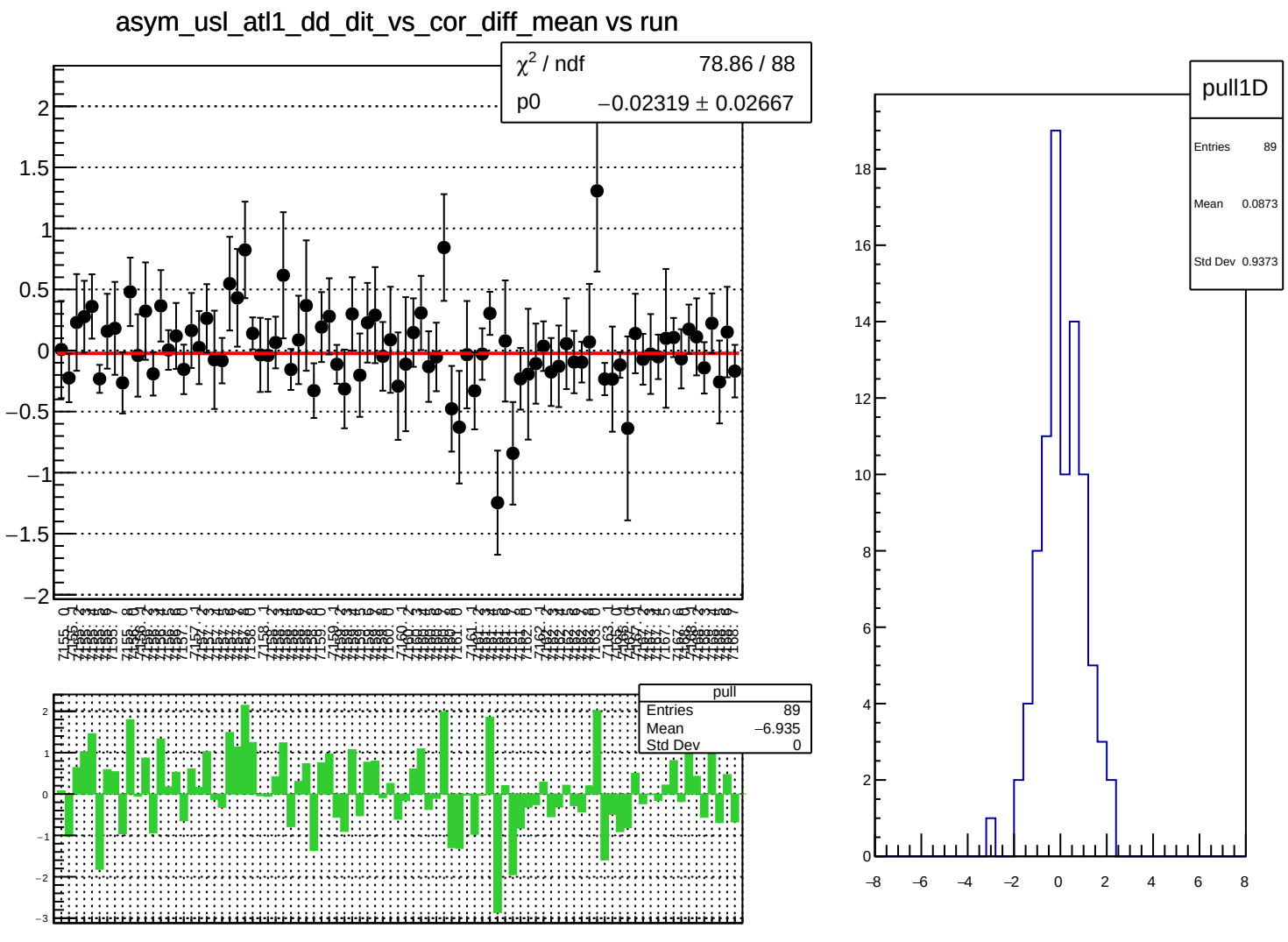

pull1D
Entries 89
Mean −0.006516
Std Dev 0.8802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

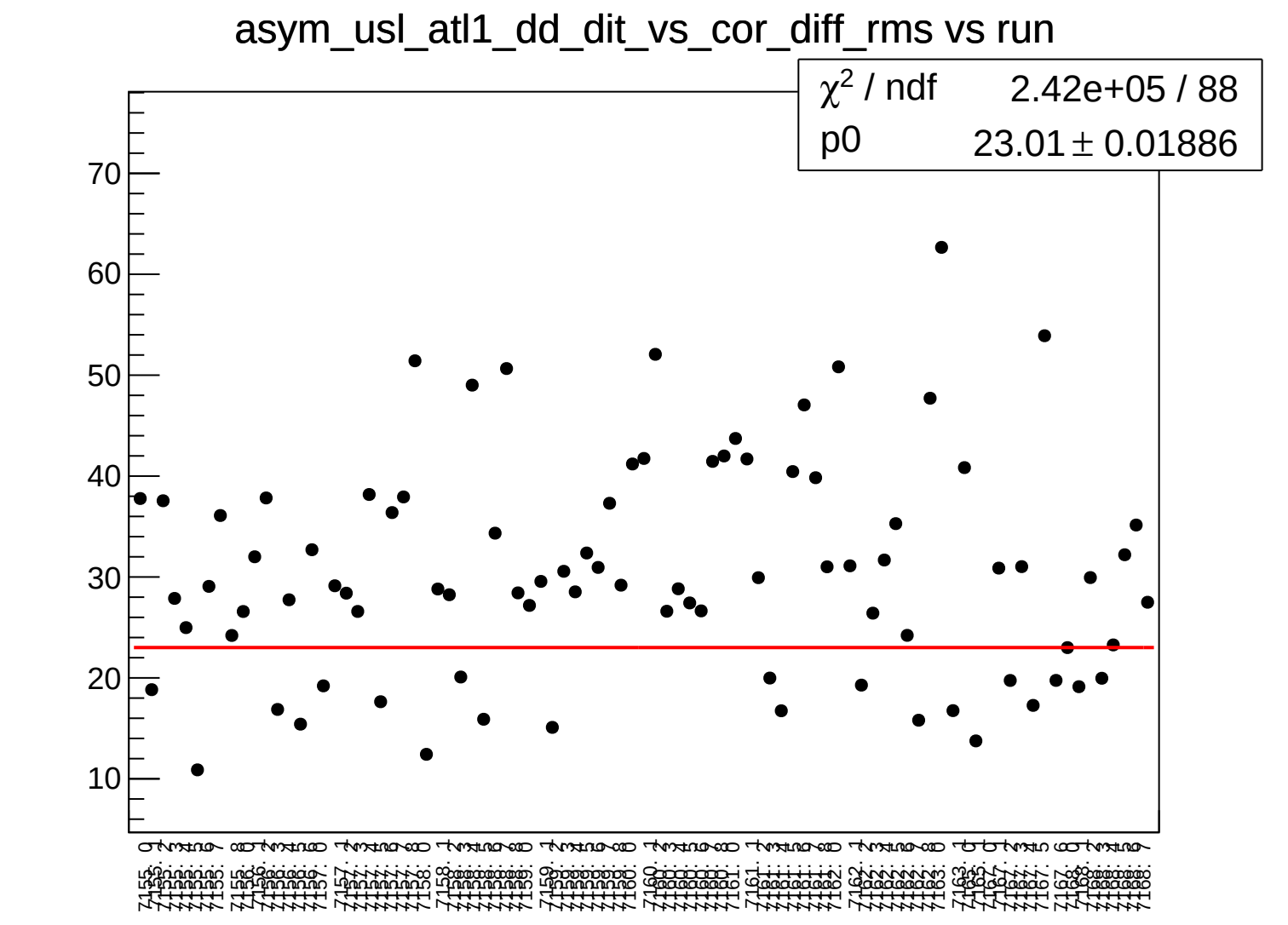

asym_usl_atl1_dd_rms vs run
χ² / ndf 632.1 / 88
p0 1352 ± 1.028
1440
1420
1400
1380
1360
1340
1320
1300
1280

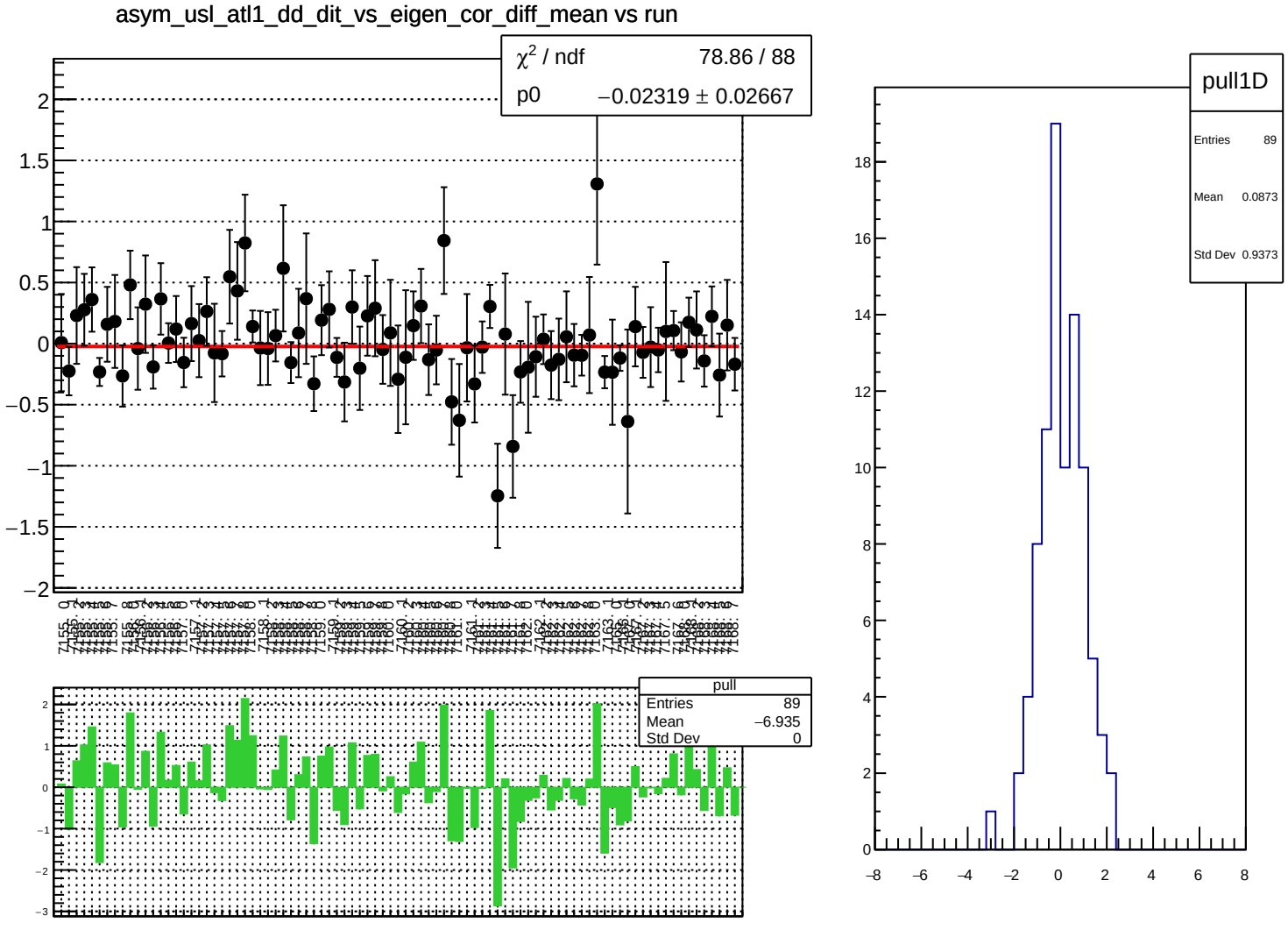

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.46 / 88
p0 9.808e−15 ± 2.88e−14
pull
Entries 89
Mean 152.4
Std Dev 0

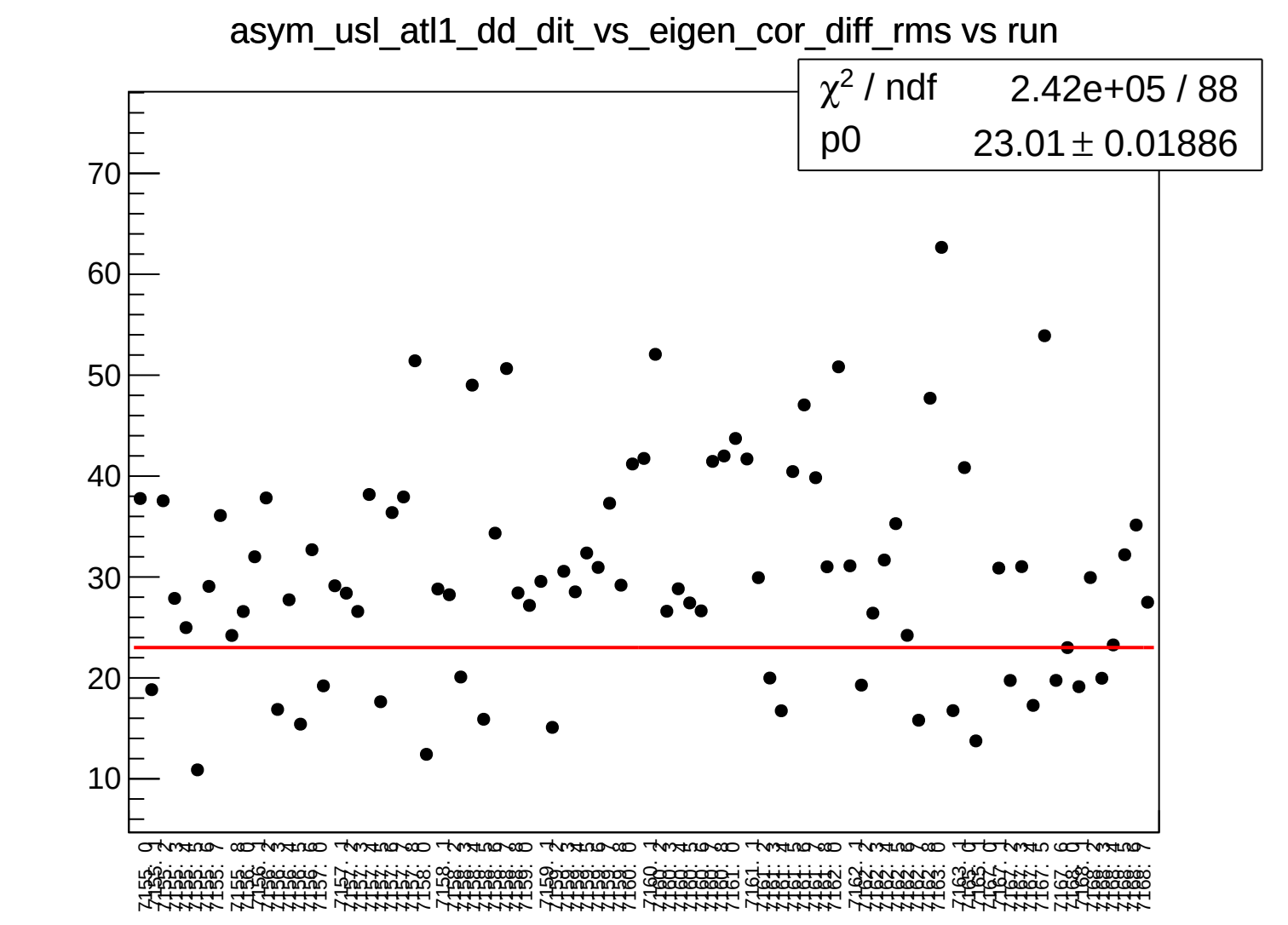

pull1D
Entries 89
Mean 0.006649
Std Dev 0.9208

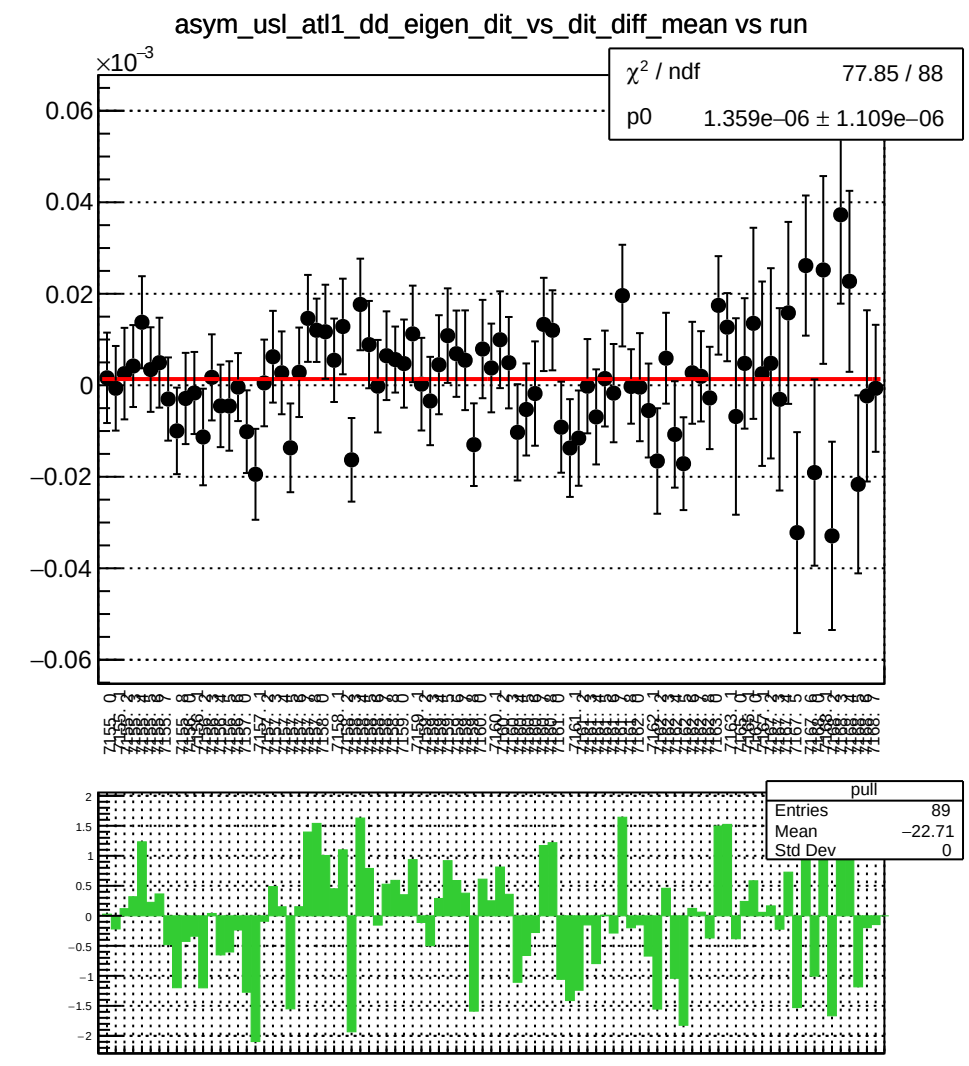

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.131e+06 / 88
p0 1.576e−11 ± 2.037e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

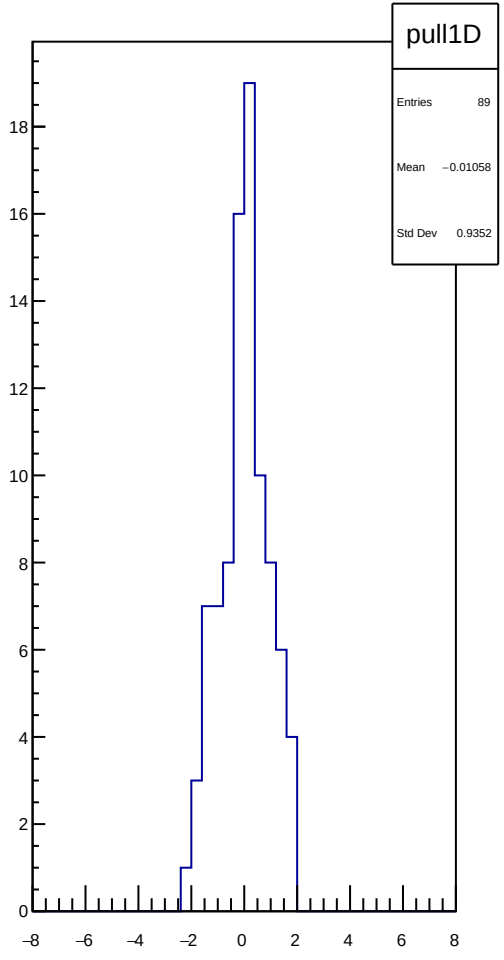

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 78.86 / 88
p0 −0.02319 ± 0.02667
pull
Entries 89
Mean −6.935
Std Dev 0
pull1D
Entries 89
Mean 0.0873
Std Dev 0.9373

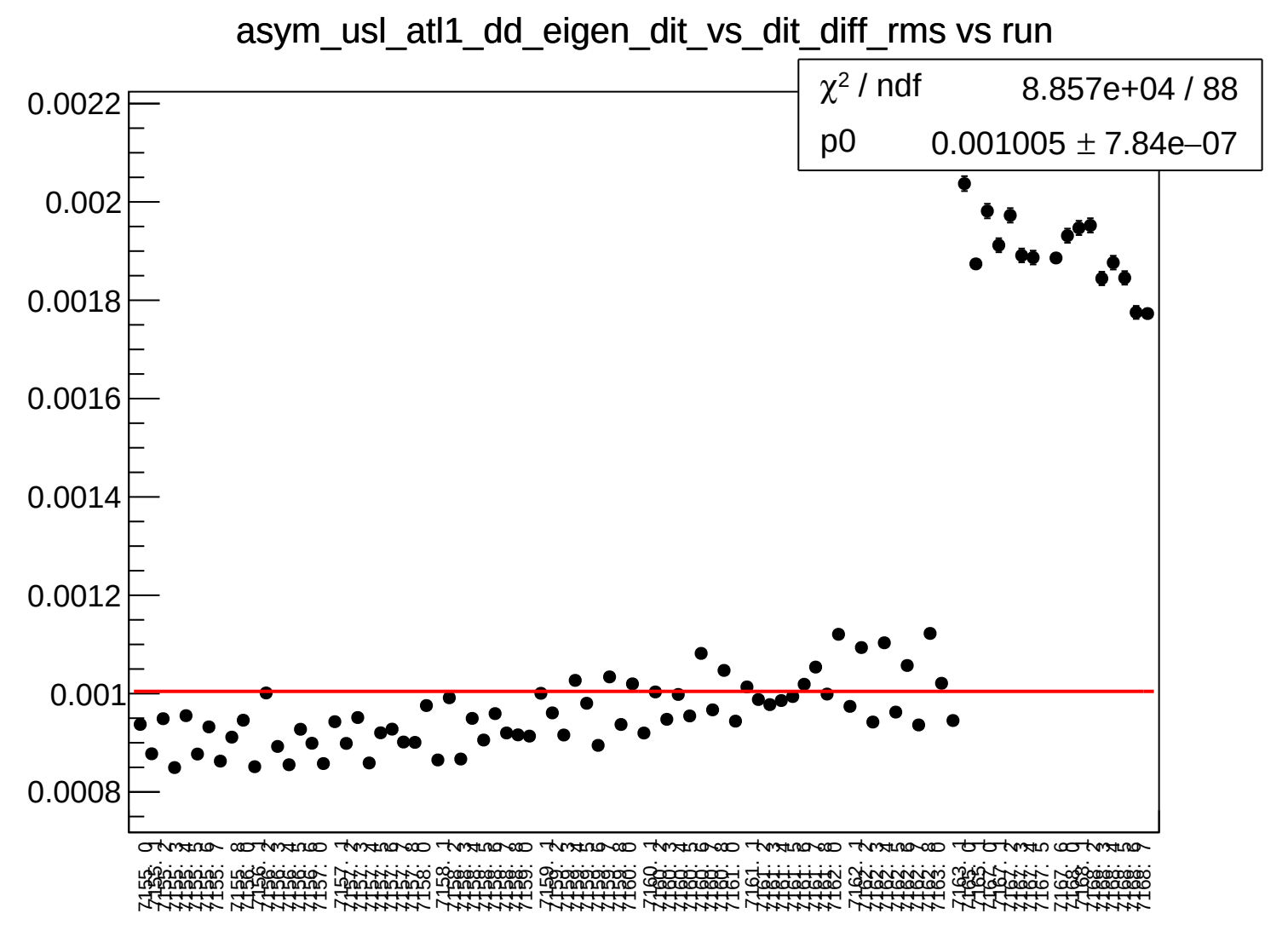

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 88
p0 23.01 ± 0.01886
70
60
50
40
30
20
10

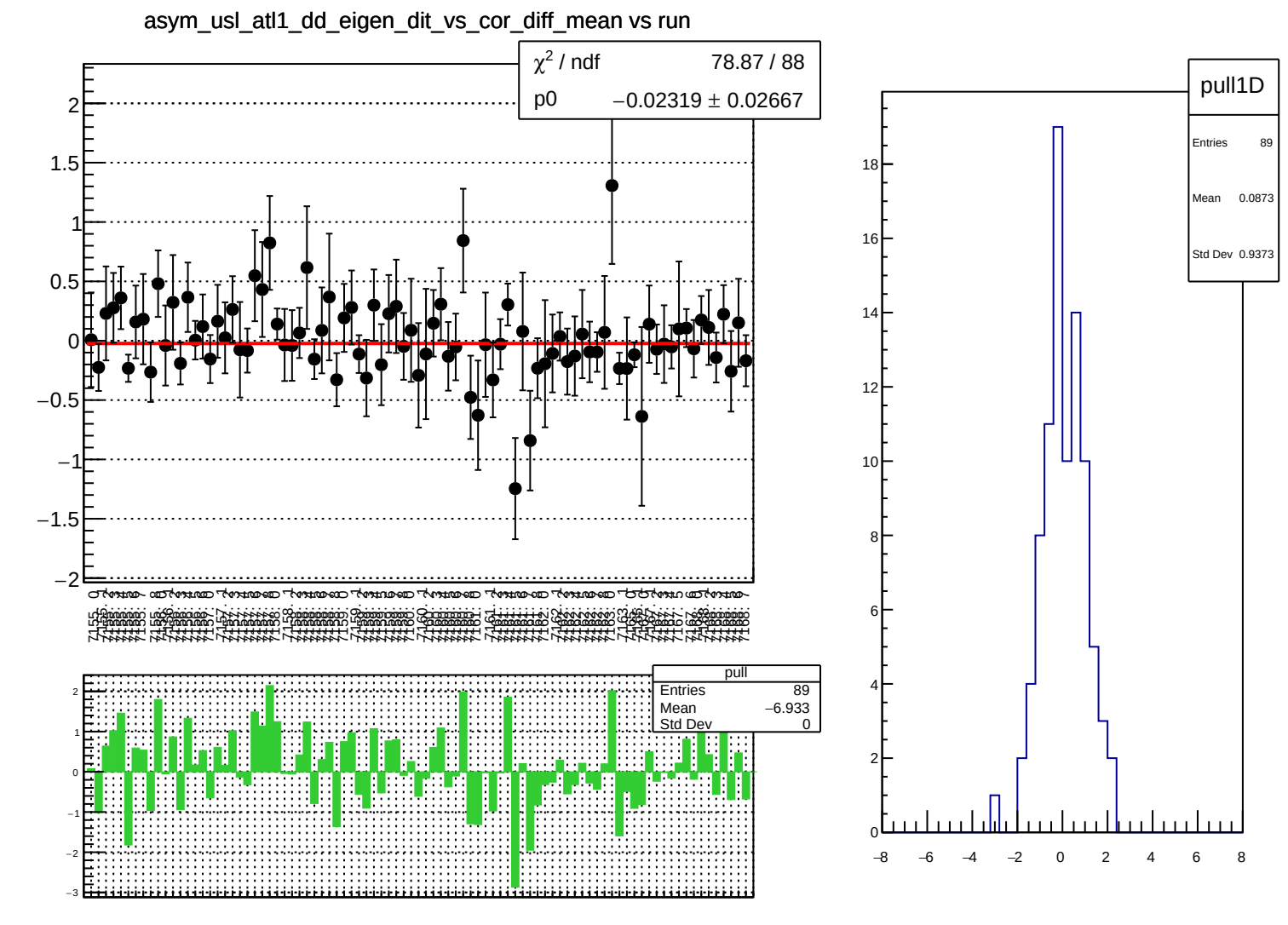

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.86 / 88
p0 −0.02319 ± 0.02667
pull
Entries 89
Mean −6.935
Std Dev 0
pull1D
Entries 89
Mean 0.0873
Std Dev 0.9373

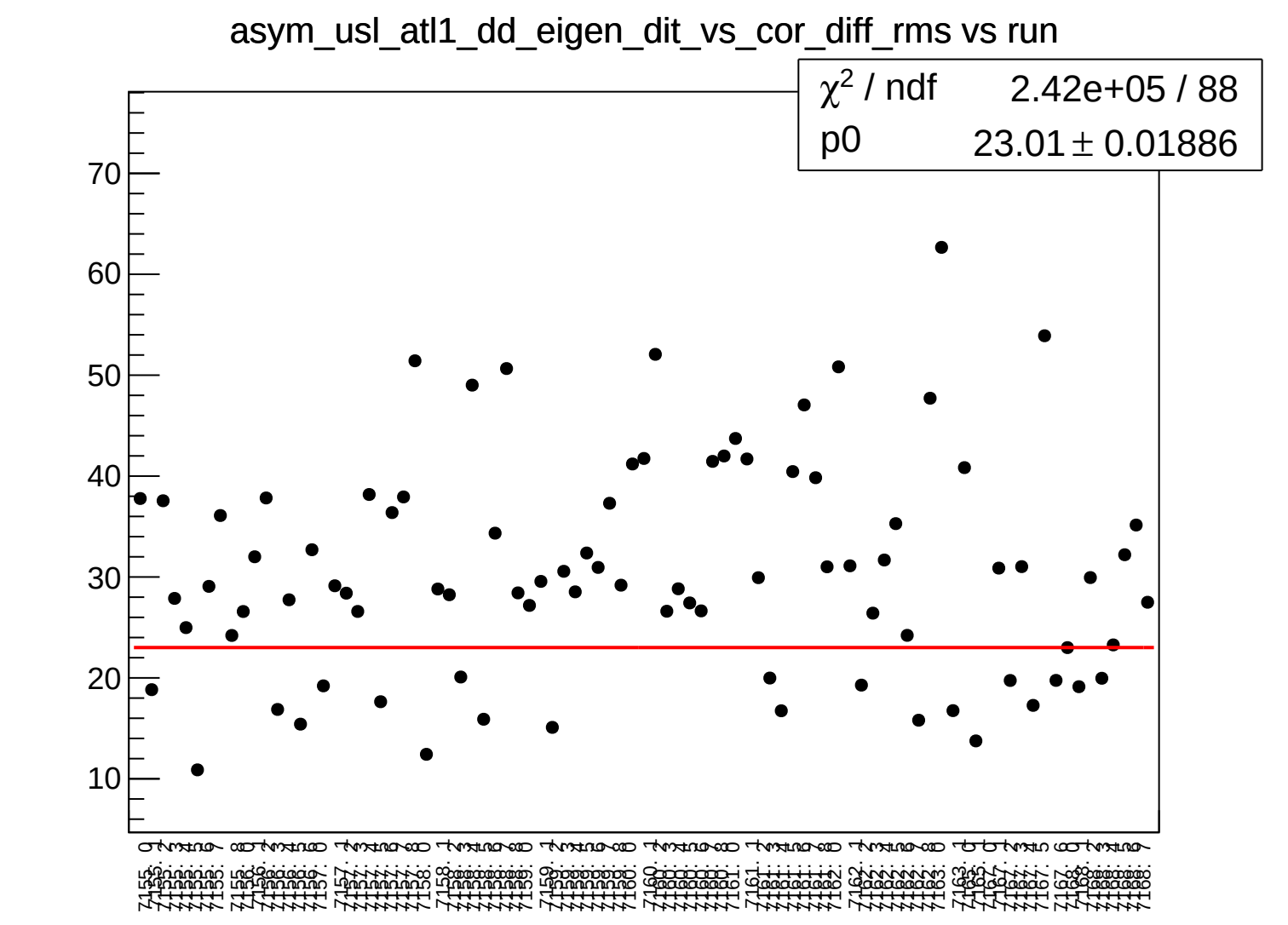

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 88
p0 23.01 ± 0.01886
70
60
50
40
30
20
10

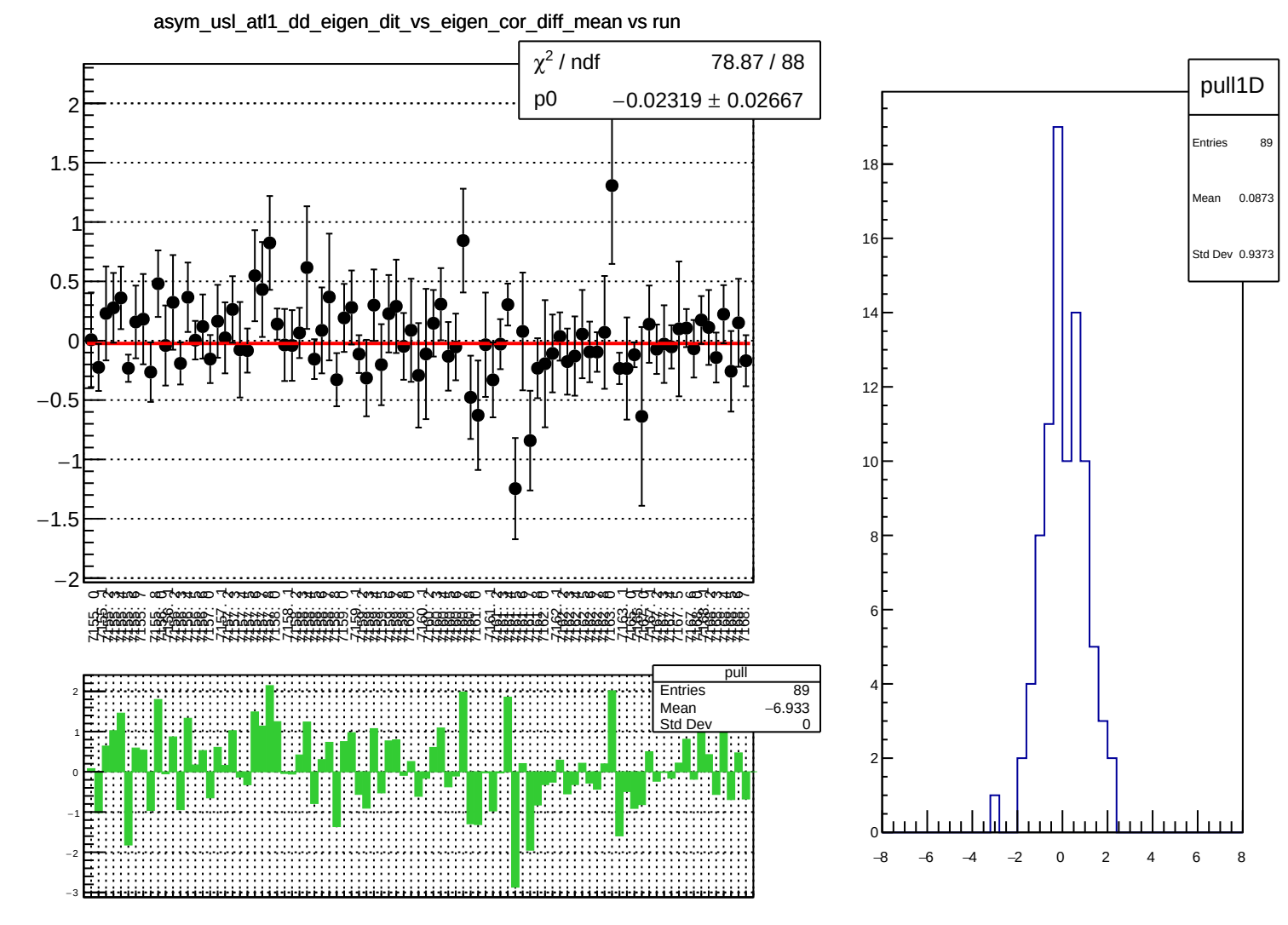

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.85 / 88
p0 1.359e−06 ± 1.109e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −22.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

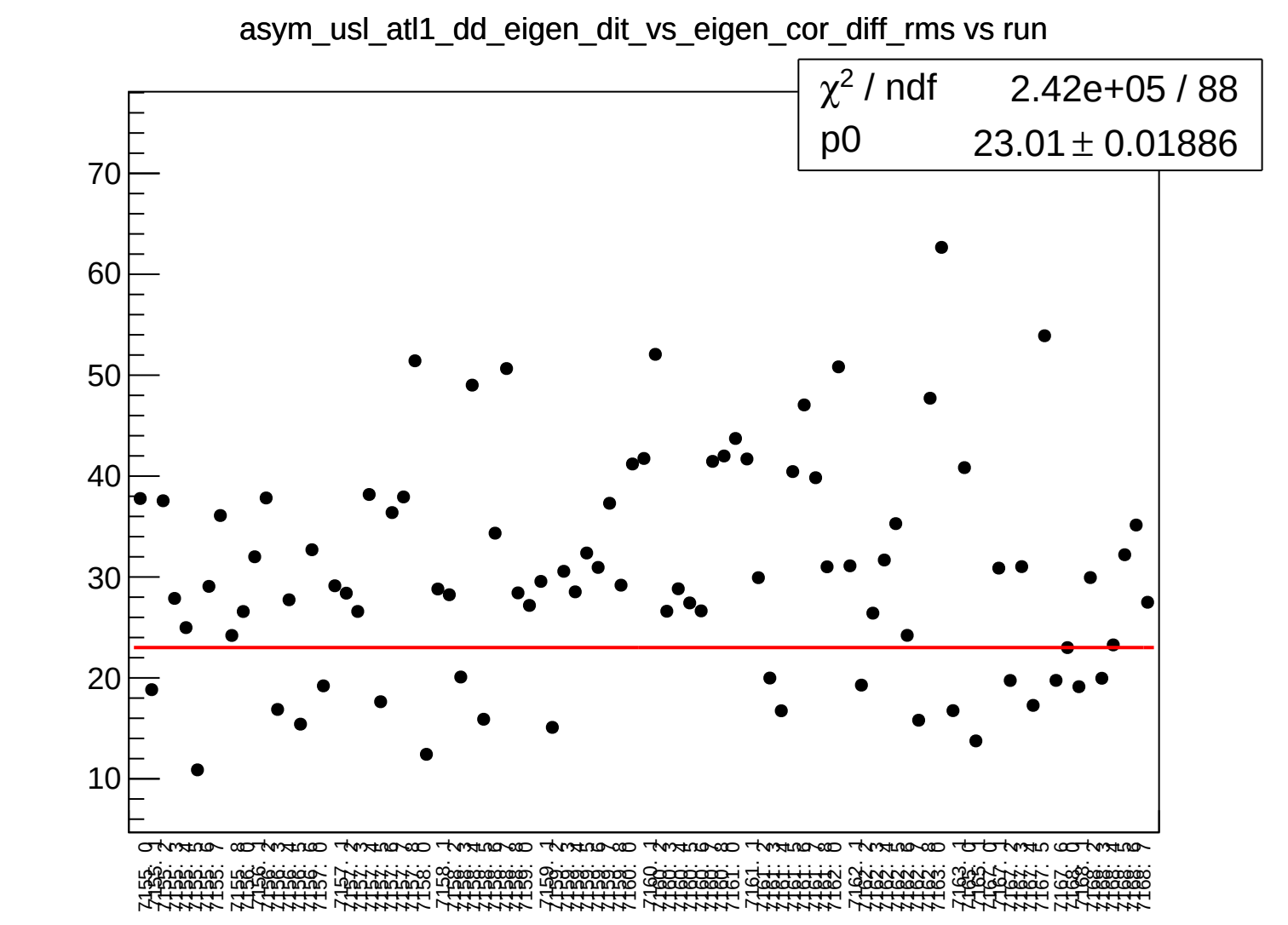

pull1D
Entries 89
Mean −0.01058
Std Dev 0.9352
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

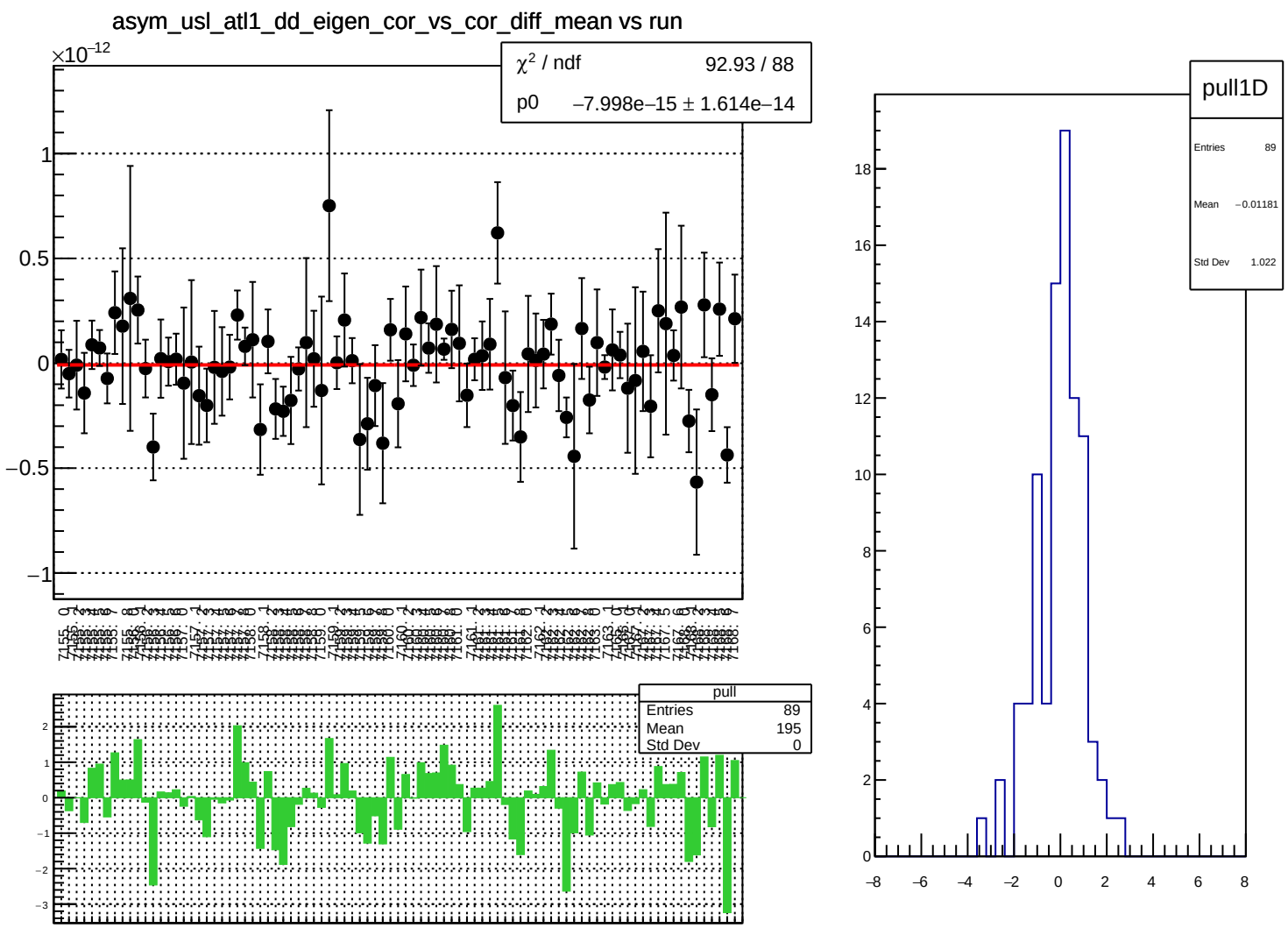

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.857e+04 / 88
p0 0.001005 ± 7.84e–07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

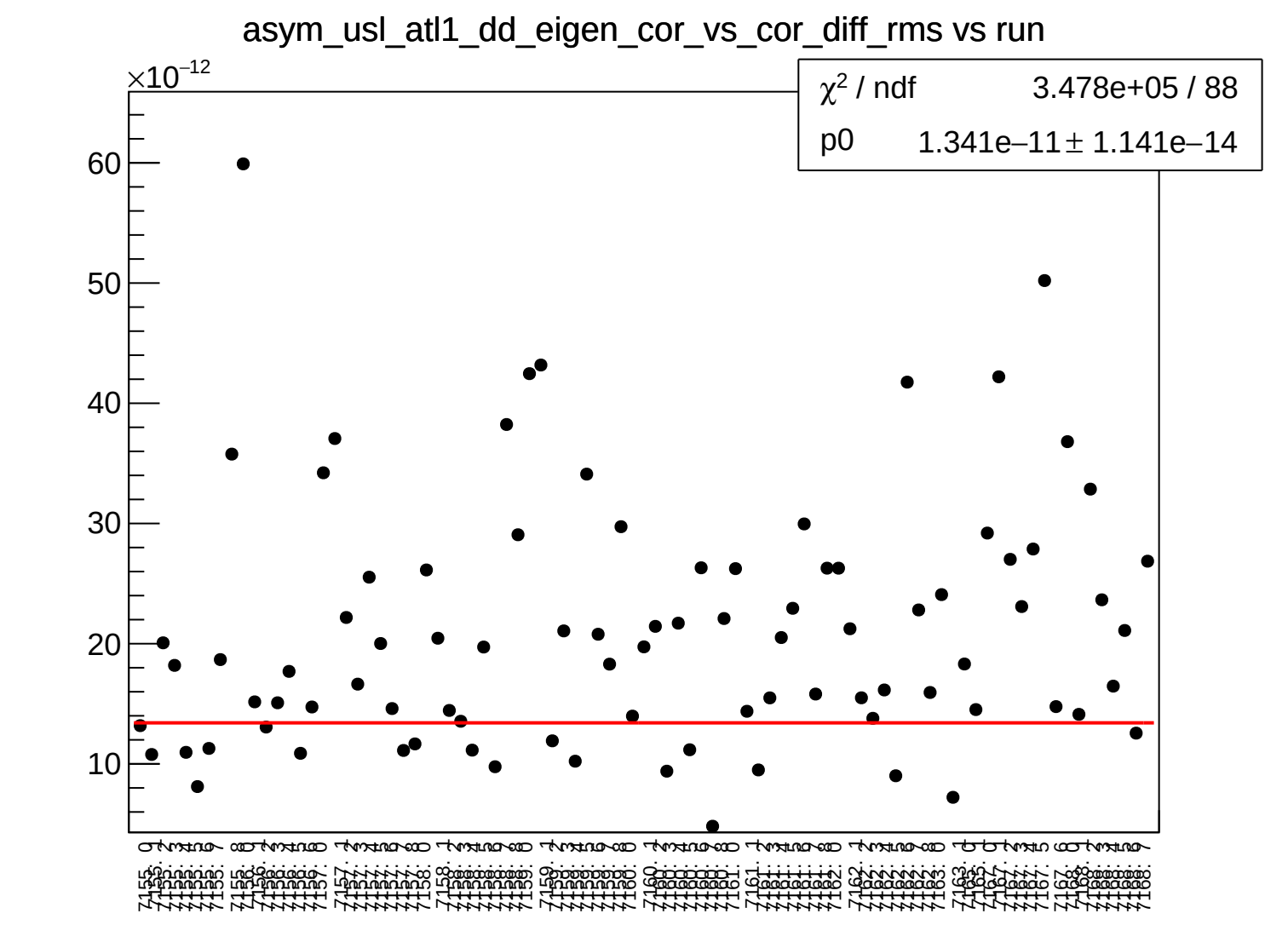

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.87 / 88
p0 −0.02319 ± 0.02667
pull
Entries 89
Mean −6.933
Std Dev 0
pull1D
Entries 89
Mean 0.0873
Std Dev 0.9373

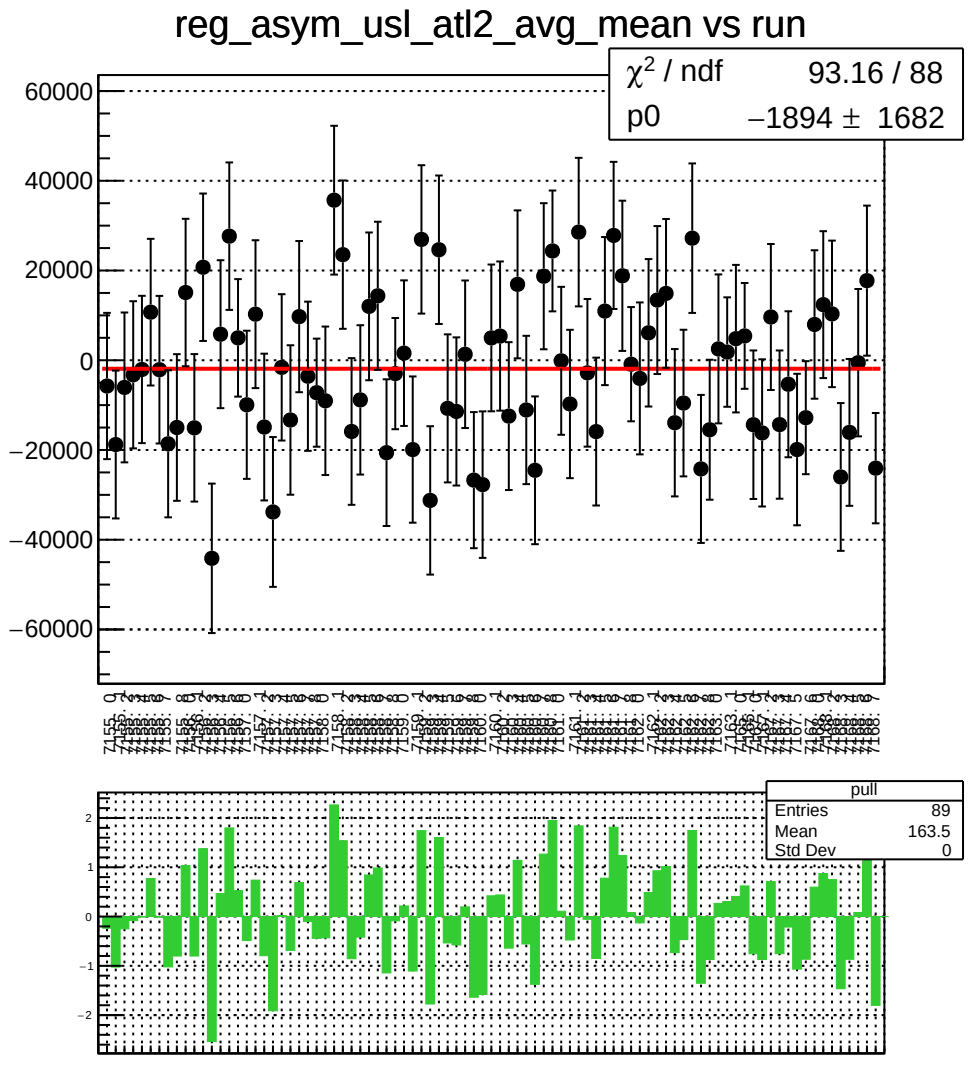

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 88
p0 23.01 ± 0.01886
70
60
50
40
30
20
10

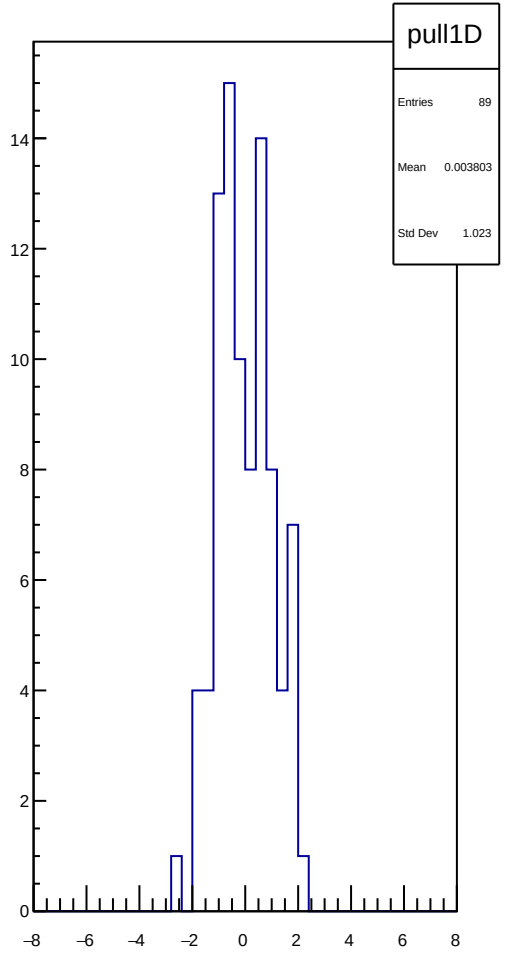

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.87 / 88
p0 −0.02319 ± 0.02667
pull
Entries 89
Mean −6.933
Std Dev 0
pull1D
Entries 89
Mean 0.0873
Std Dev 0.9373

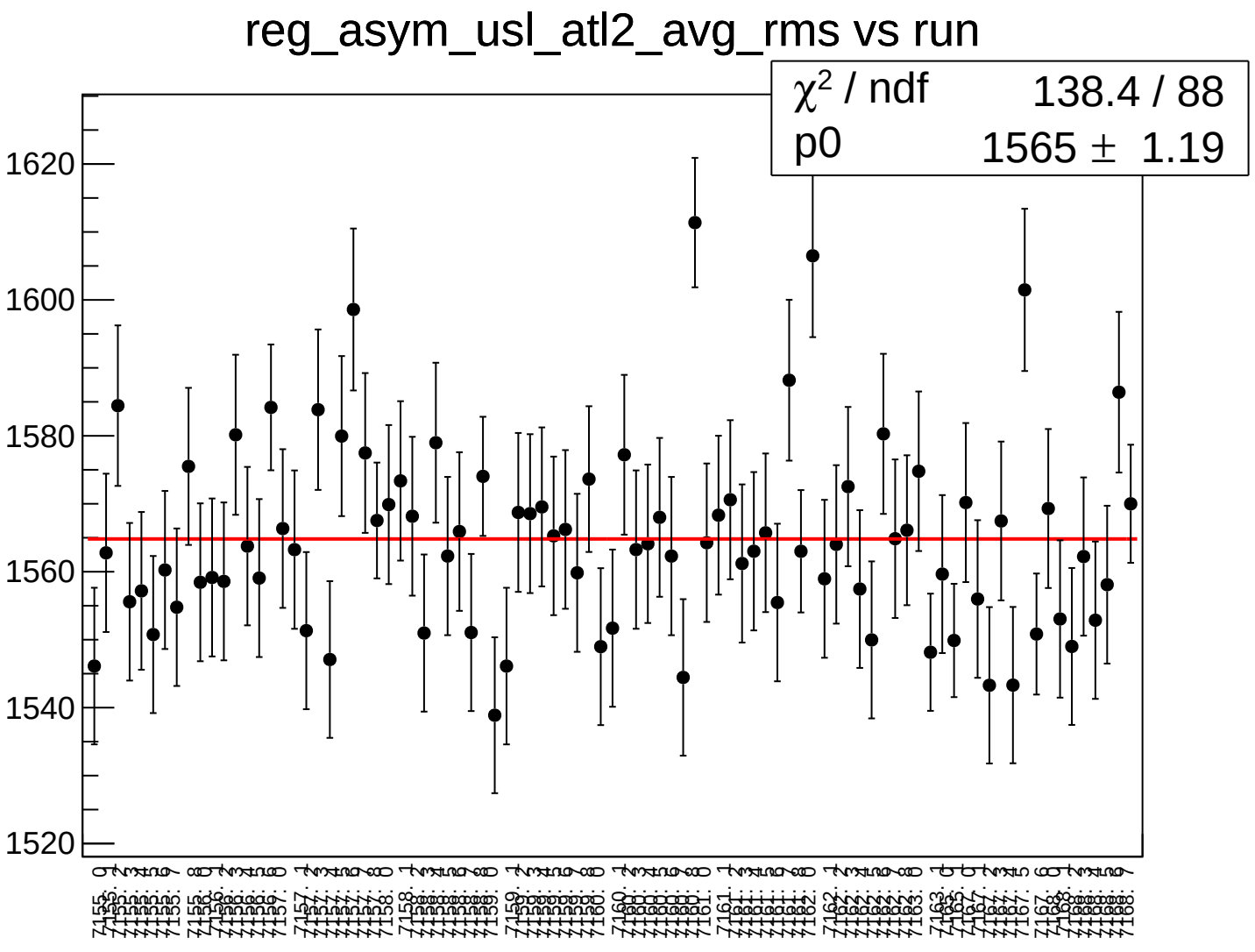

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.42e+05 / 88
p0 23.01 ± 0.01886
70
60
50
40
30
20
10

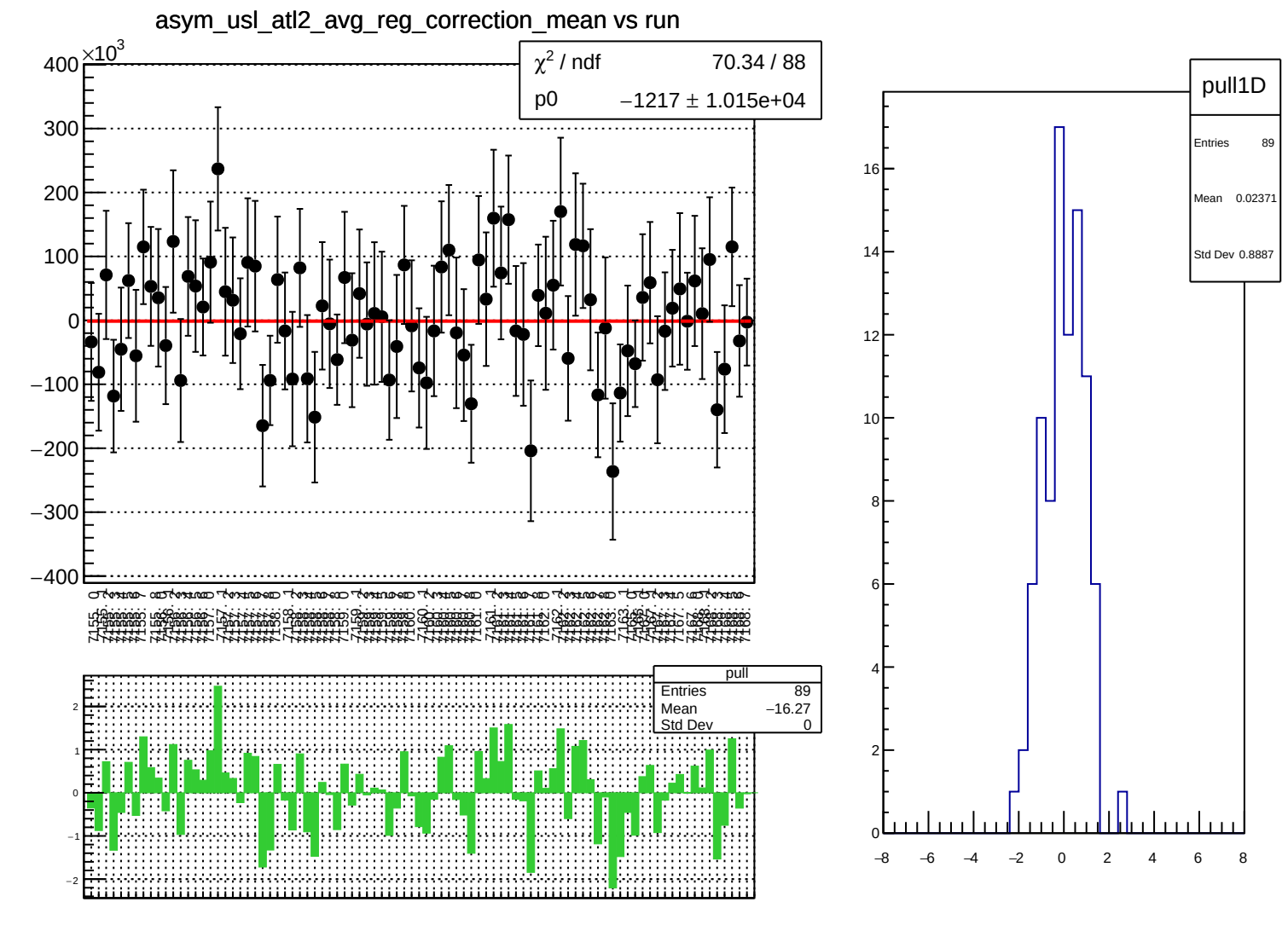

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 92.93 / 88
p0 −7.998e−15 ± 1.614e−14
pull
Entries 89
Mean 195
Std Dev 0
pull1D
Entries 89
Mean −0.01181
Std Dev 1.022

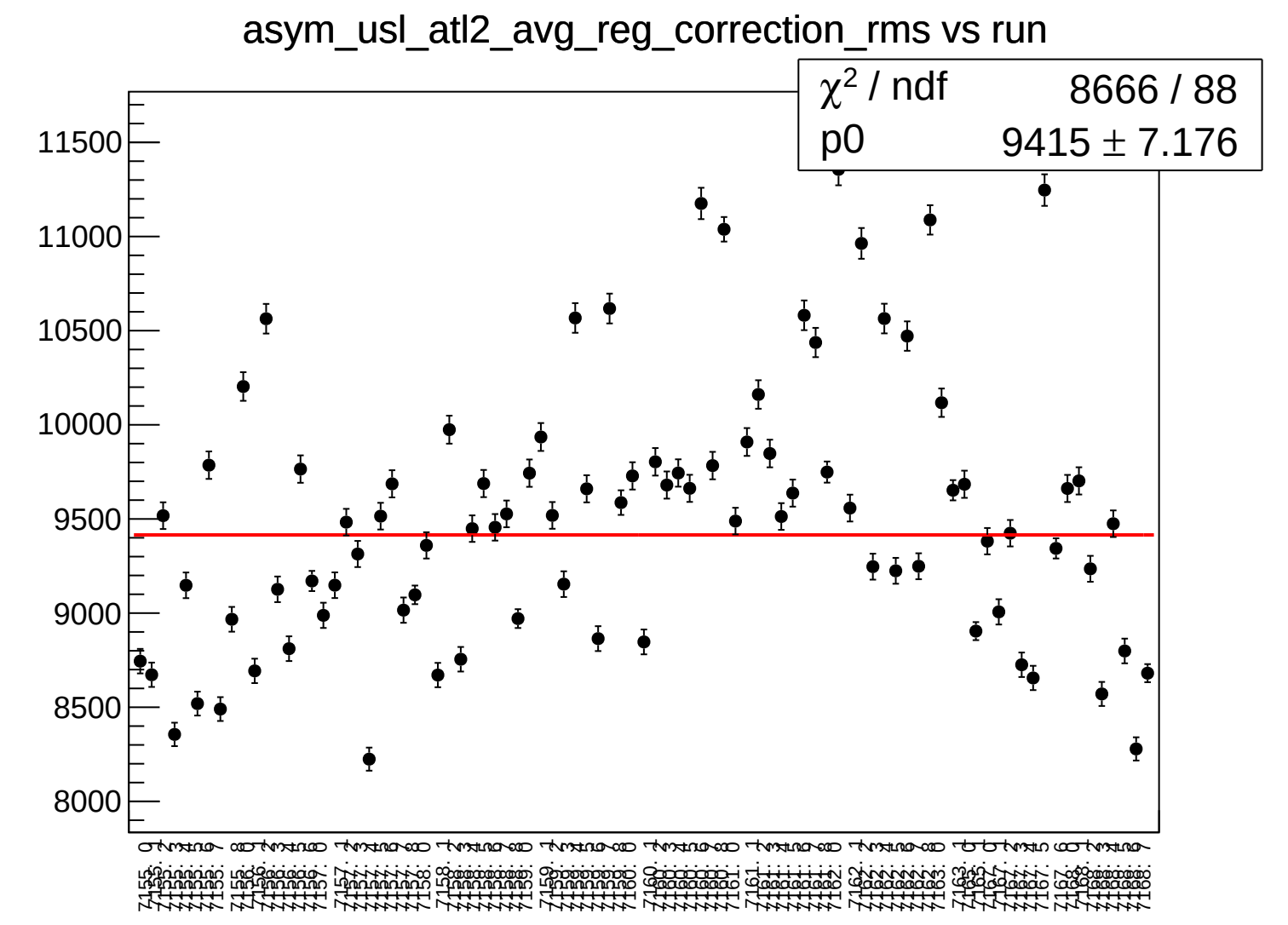

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.478e+05 / 88
p0 1.341e−11 ± 1.141e−14
60
50
40
30
20
10

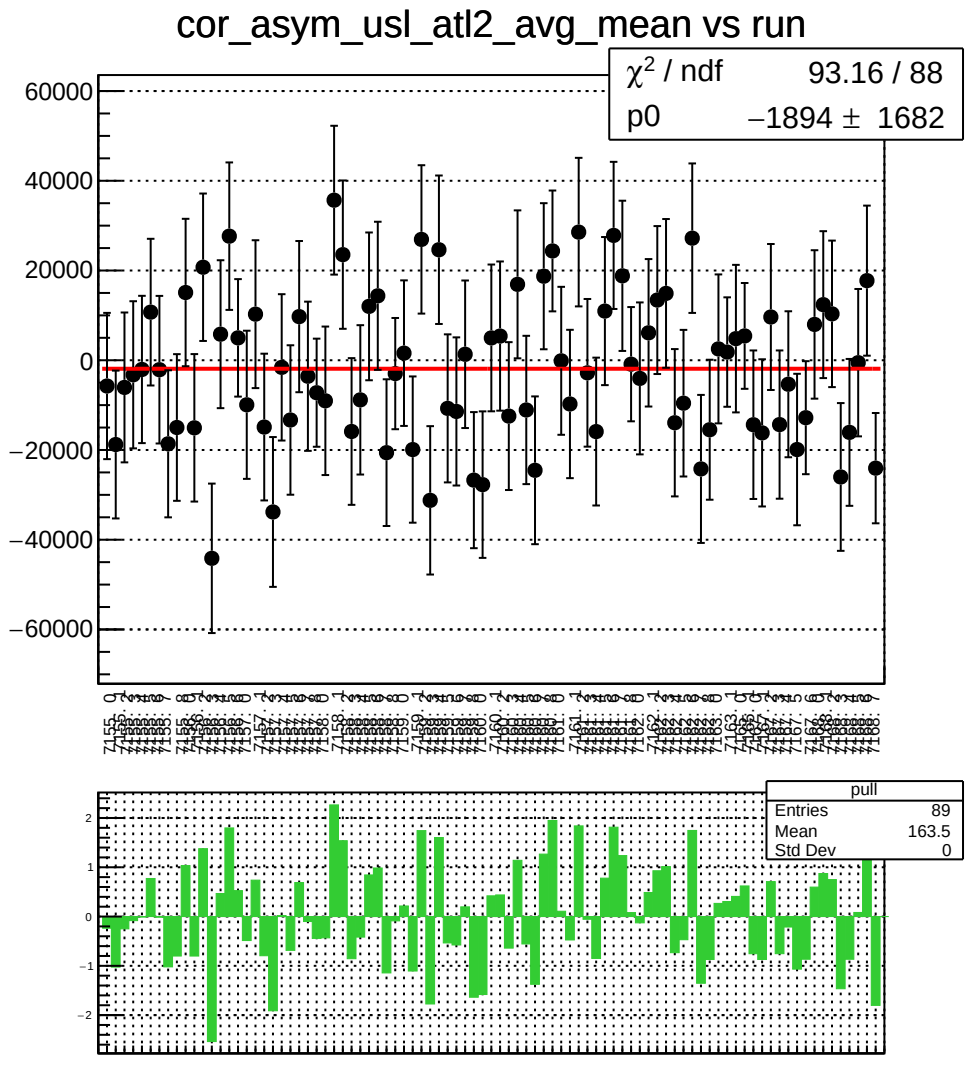

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.16 / 88
p0 −1894 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 163.5
Std Dev 0
2
1
0
−1
−2

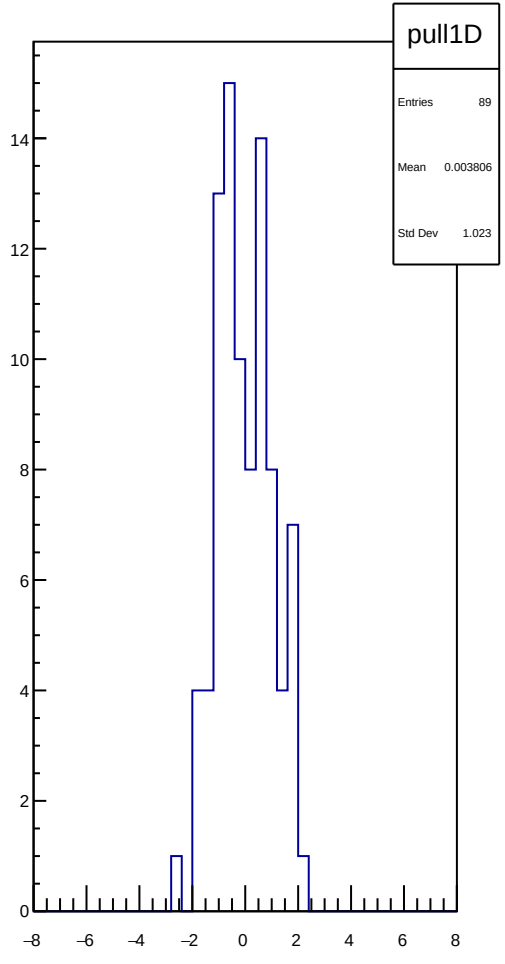

pull1D
Entries 89
Mean 0.003803
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

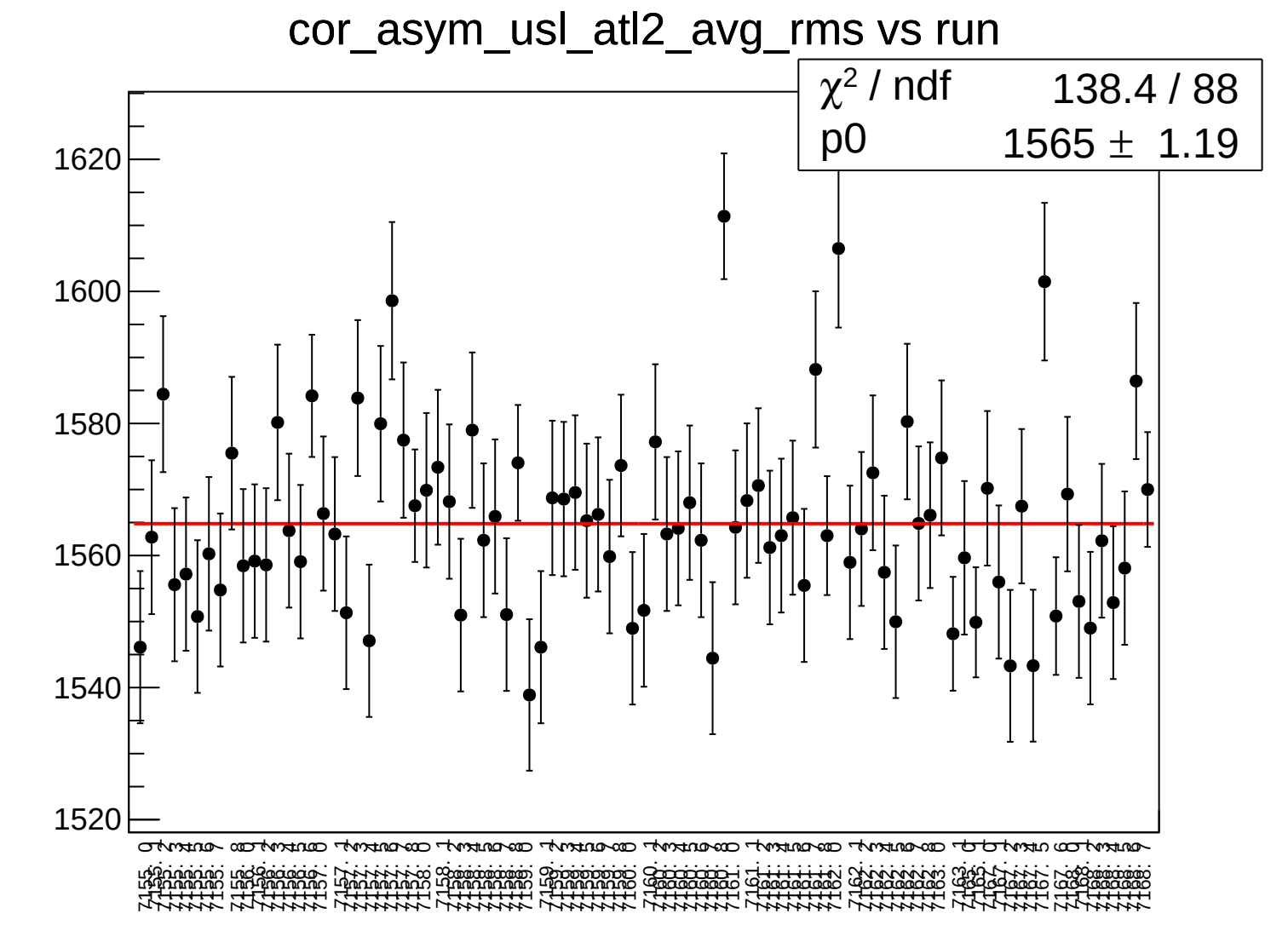

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 138.4 / 88
p0 1565 ± 1.19
1620
1600
1580
1560
1540
1520

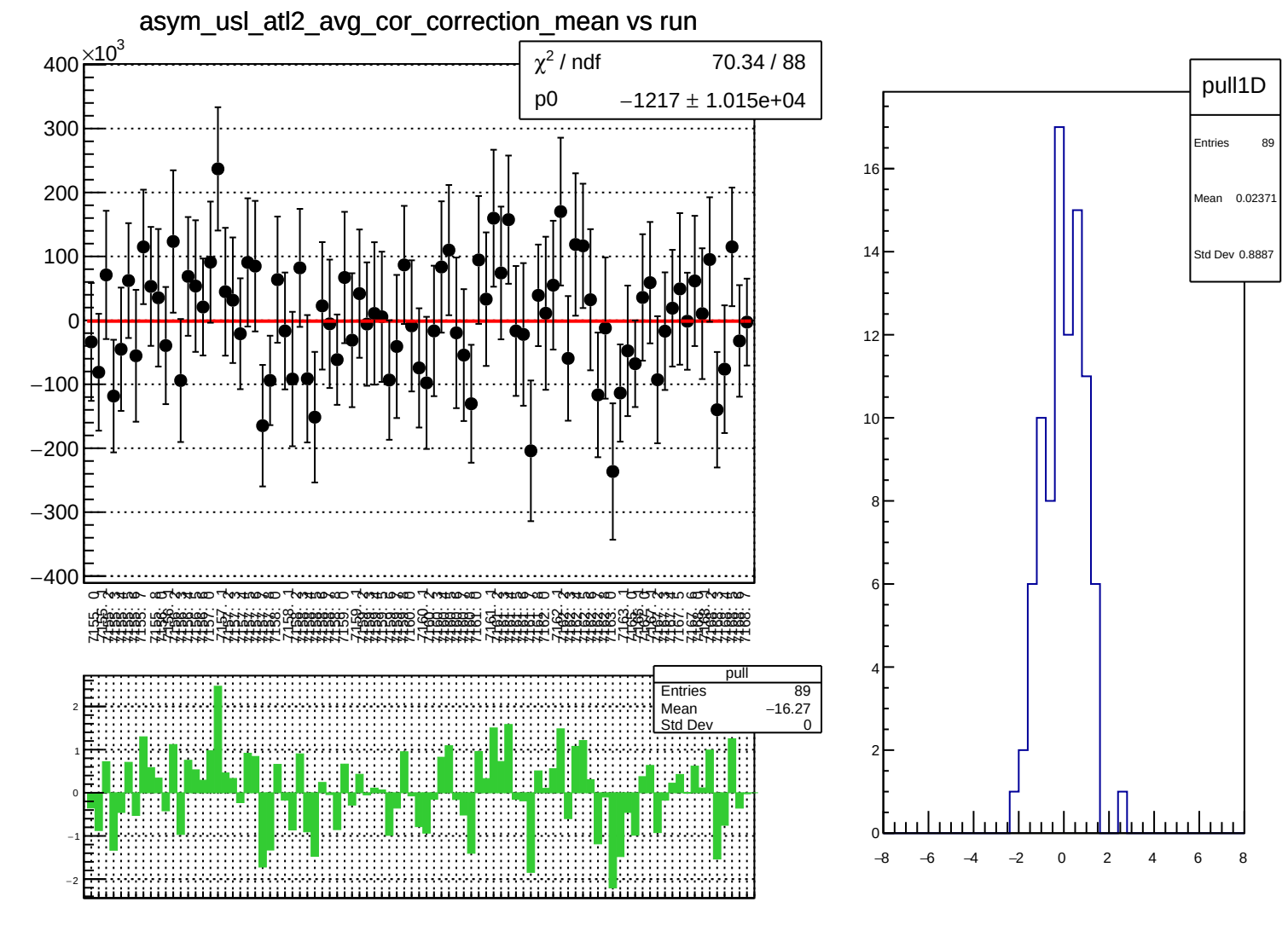

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.34 / 88
p0 −1217 ± 1.015e+04
pull
Entries 89
Mean −16.27
Std Dev 0
pull1D
Entries 89
Mean 0.02371
Std Dev 0.8887

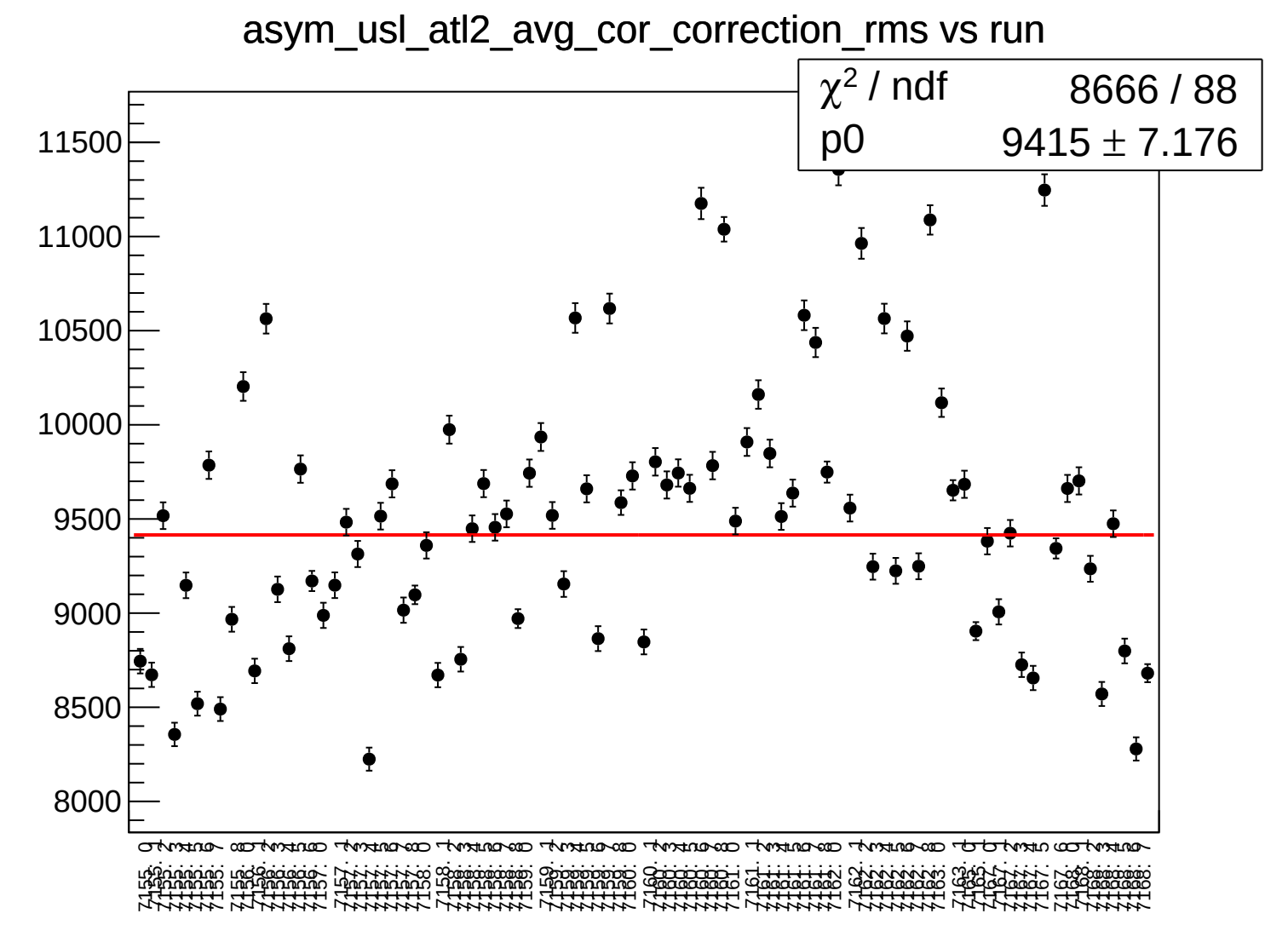

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 8666 / 88
p0 9415 ± 7.176
11500
11000
10500
10000
9500
9000
8500
8000

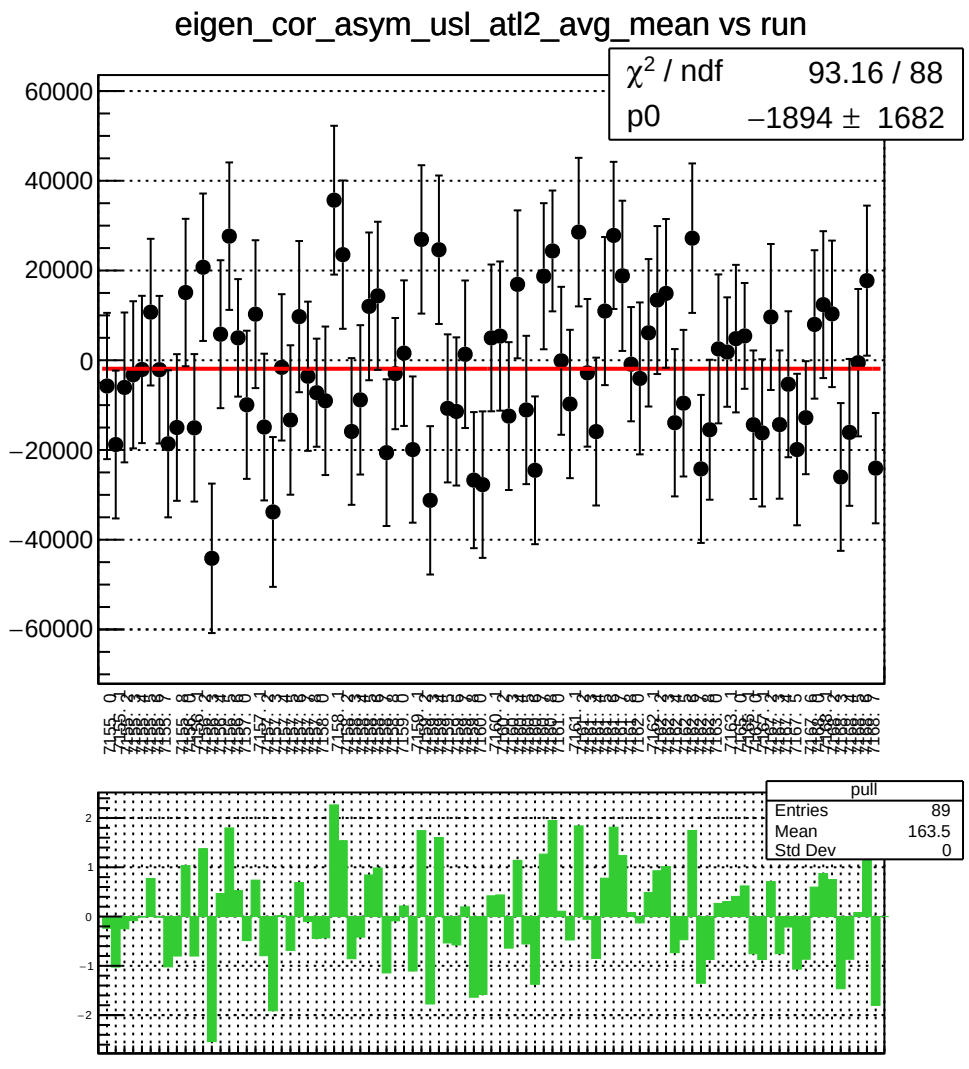

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.16 / 88
p0 −1894 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 163.5
Std Dev 0
2
1
0
−1
−2

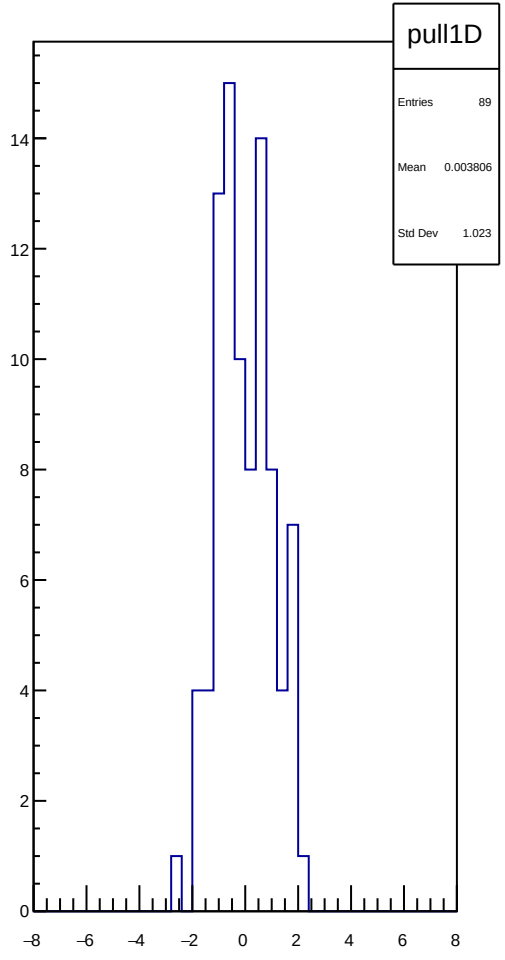

pull1D
Entries 89
Mean 0.003806
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

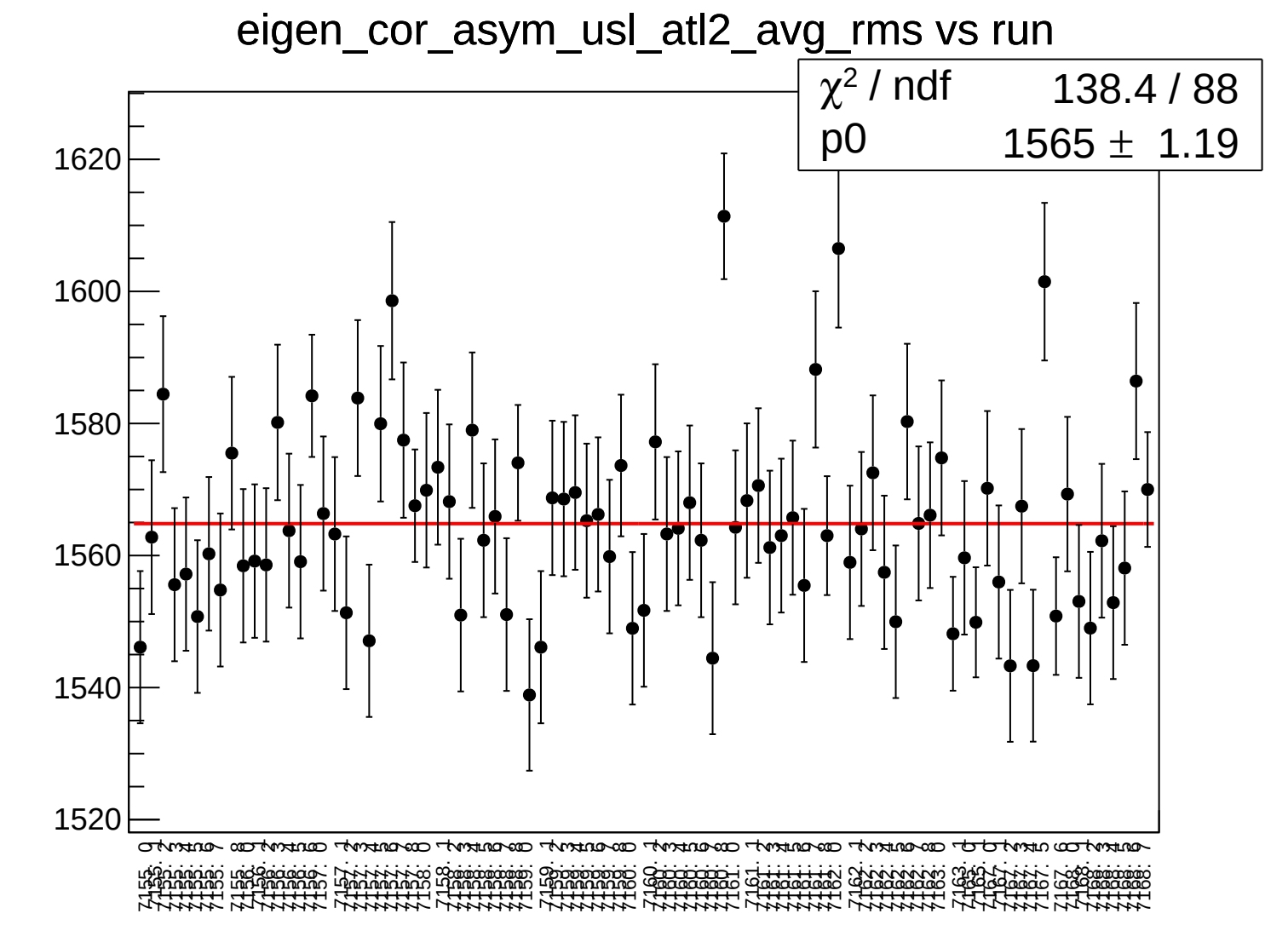

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 138.4 / 88
p0 1565 ± 1.19
1620
1600
1580
1560
1540
1520

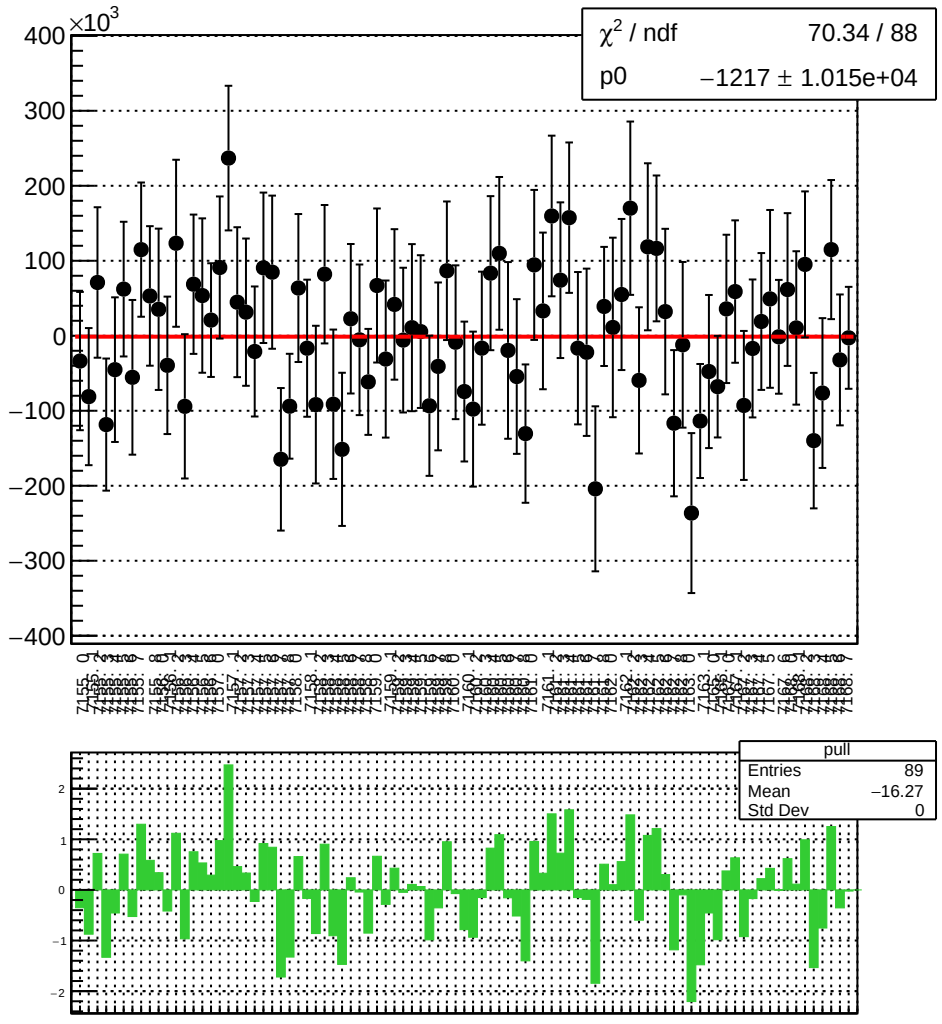

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.34 / 88
p0 −1217 ± 1.015e+04
pull
Entries 89
Mean −16.27
Std Dev 0
pull1D
Entries 89
Mean 0.02371
Std Dev 0.8887

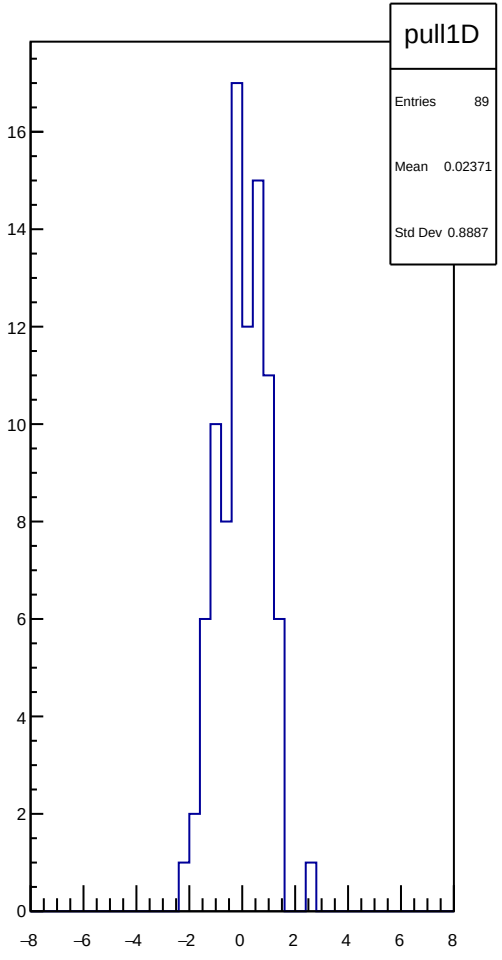

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 8666 / 88
p0 9415 ± 7.176
11500
11000
10500
10000
9500
9000
8500
8000

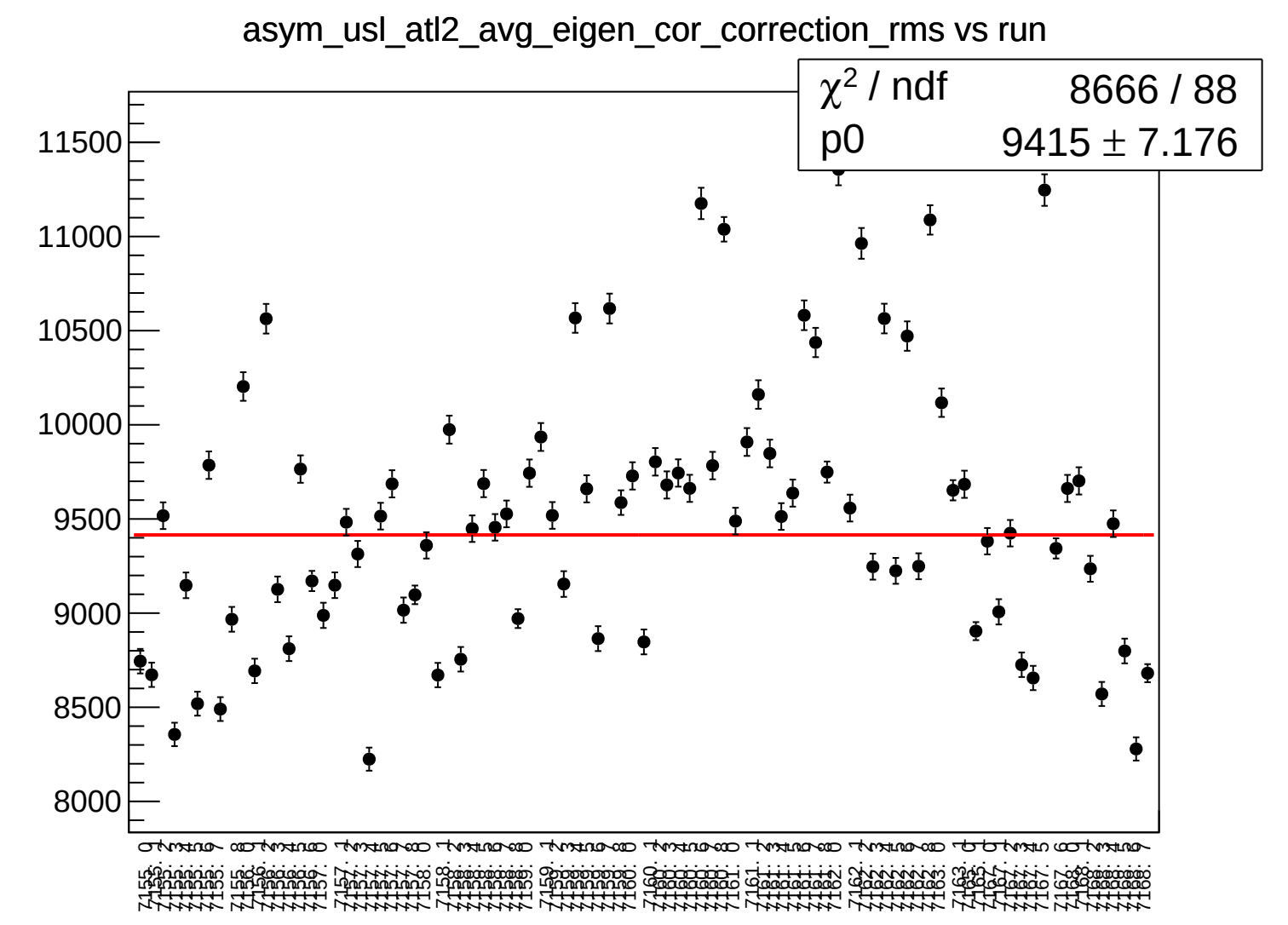

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 93.16 / 88
p0 −1894 ± 1682
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 163.5
Std Dev 0
2
1
0
−1
−2

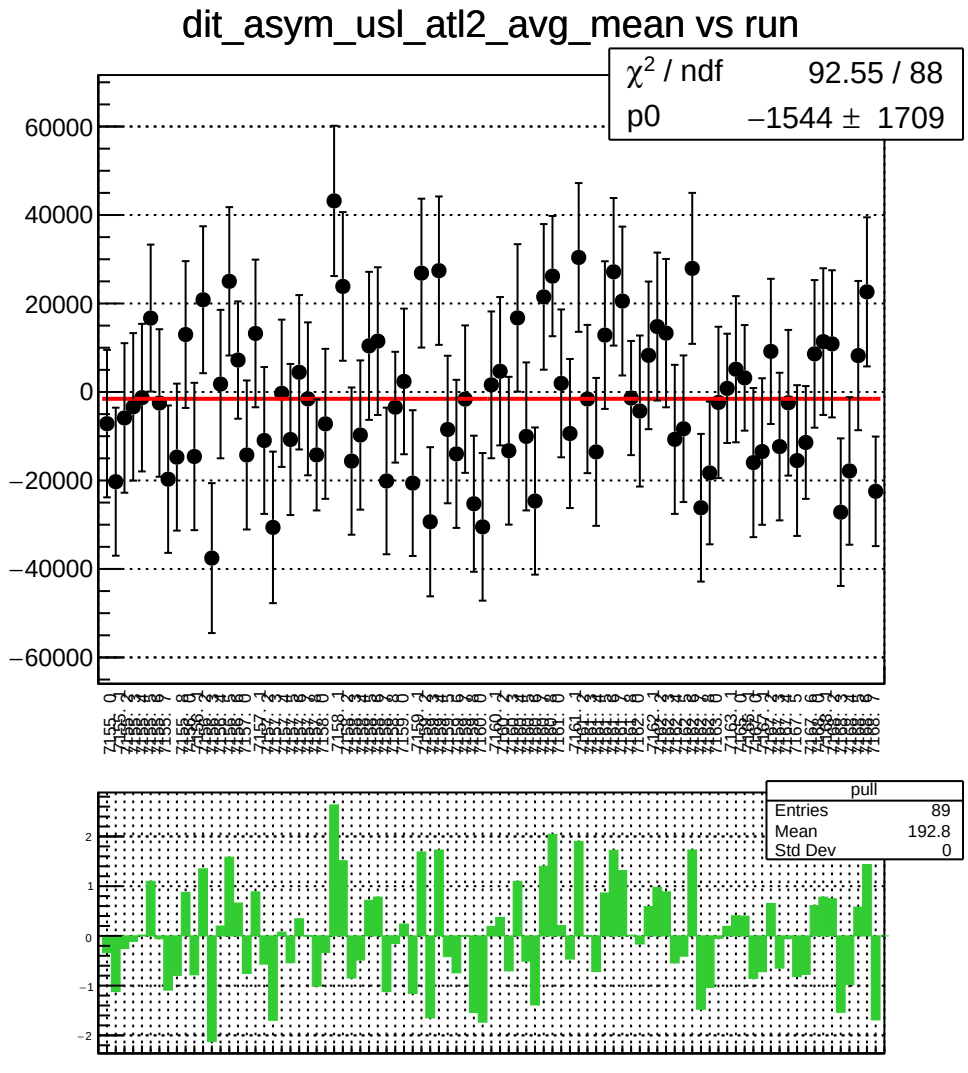

pull1D
Entries 89
Mean 0.003806
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

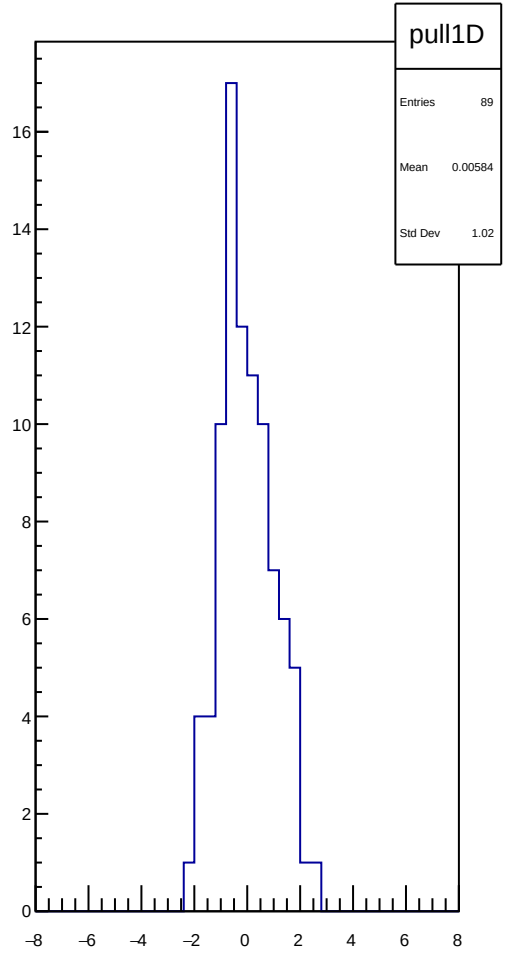

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 138.4 / 88
p0 1565 ± 1.19
1620
1600
1580
1560
1540
1520

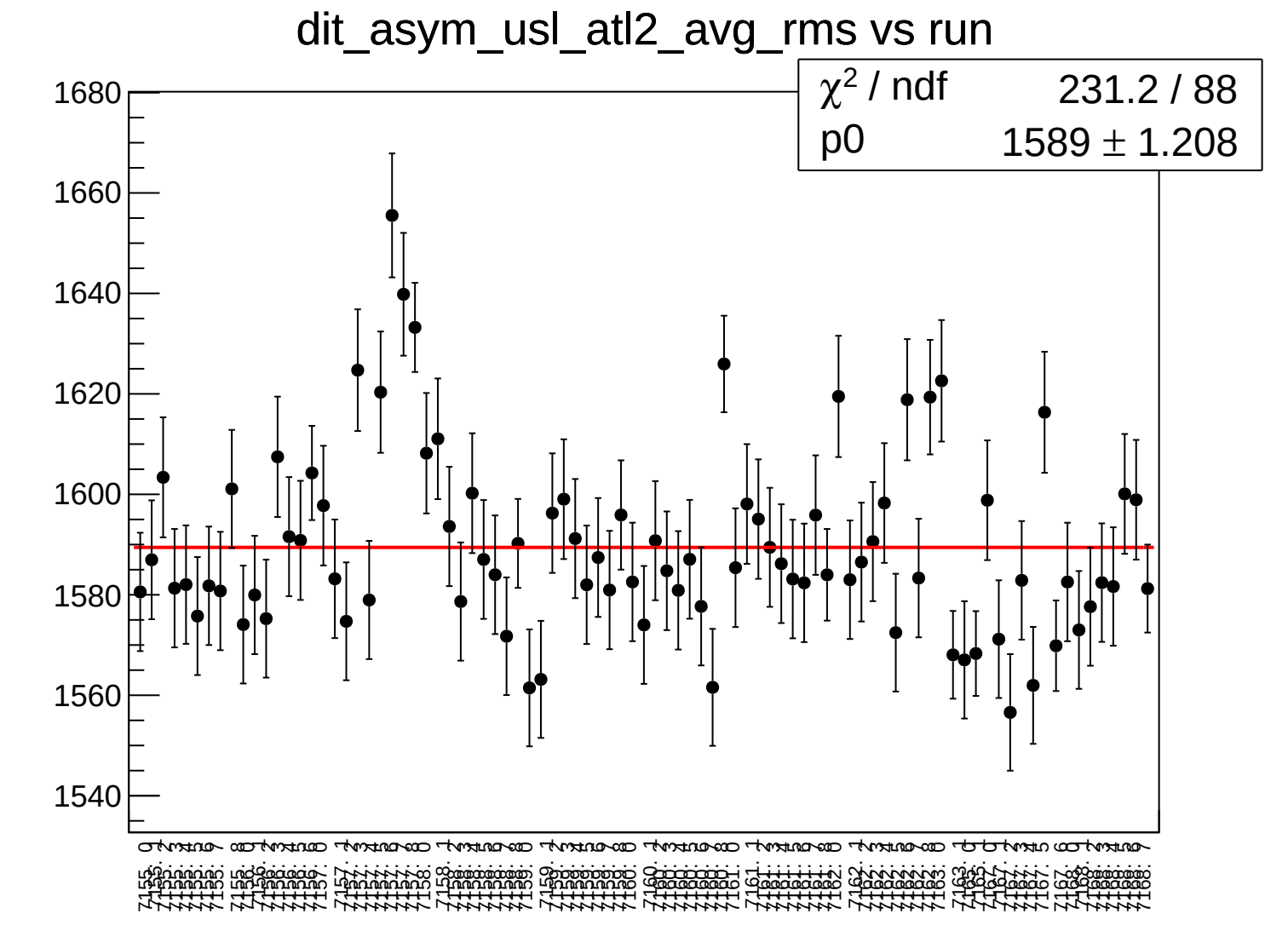

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.34 / 88
p0 −1217 ± 1.015e+04
pull
Entries 89
Mean −16.27
Std Dev 0

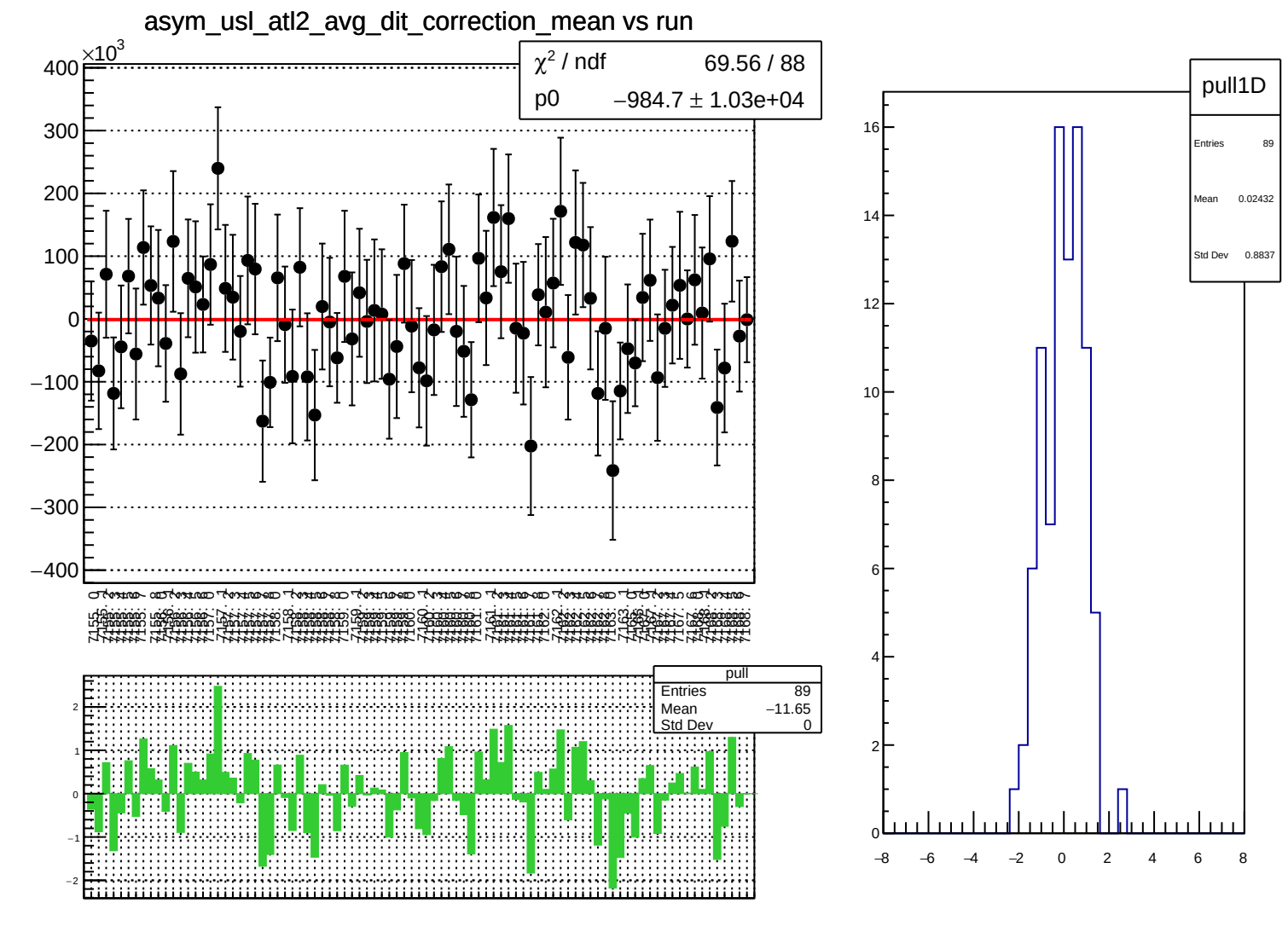

pull1D
Entries 89
Mean 0.02371
Std Dev 0.8887

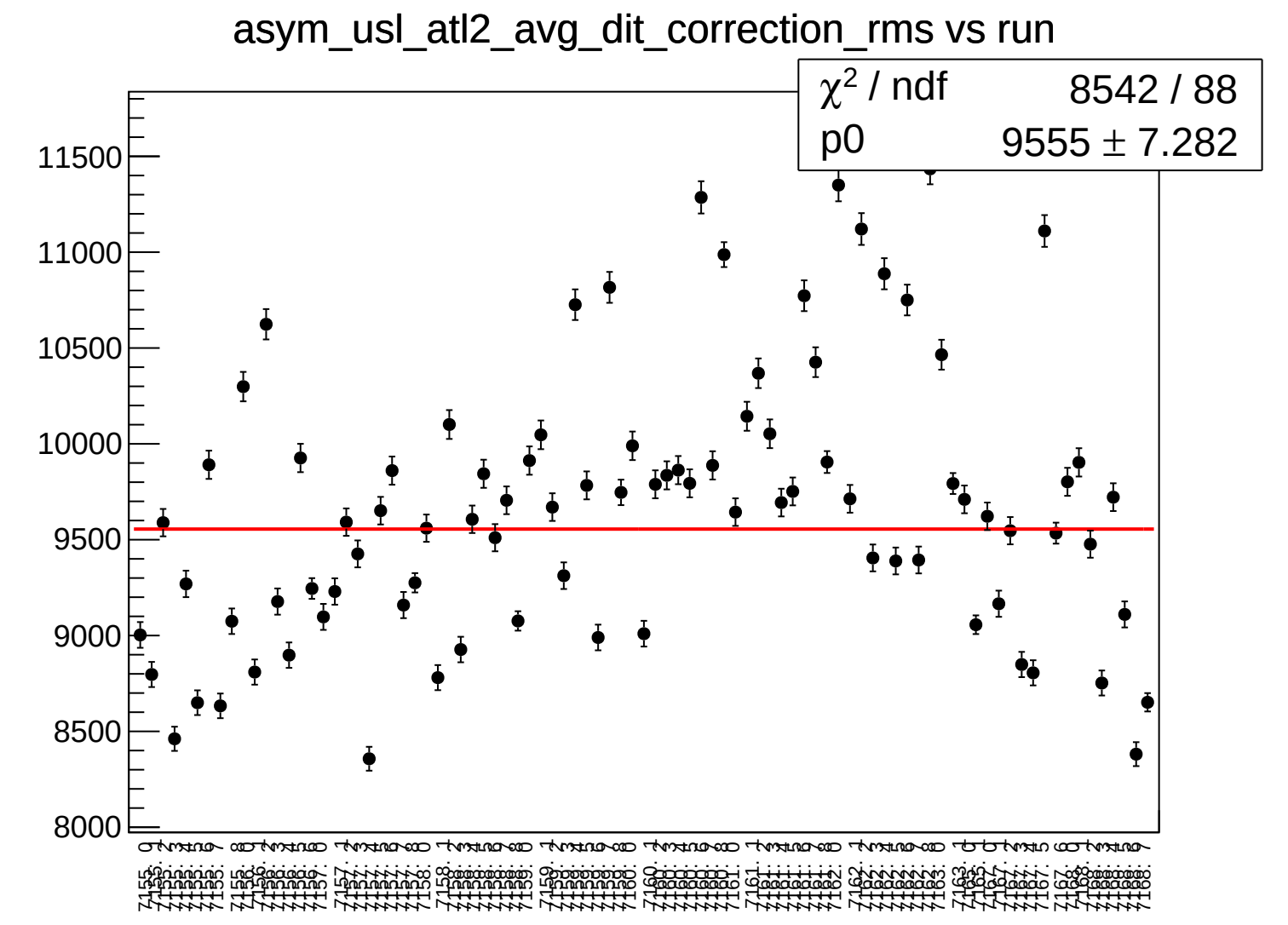

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 8666 / 88
p0 9415 ± 7.176
11500
11000
10500
10000
9500
9000
8500
8000

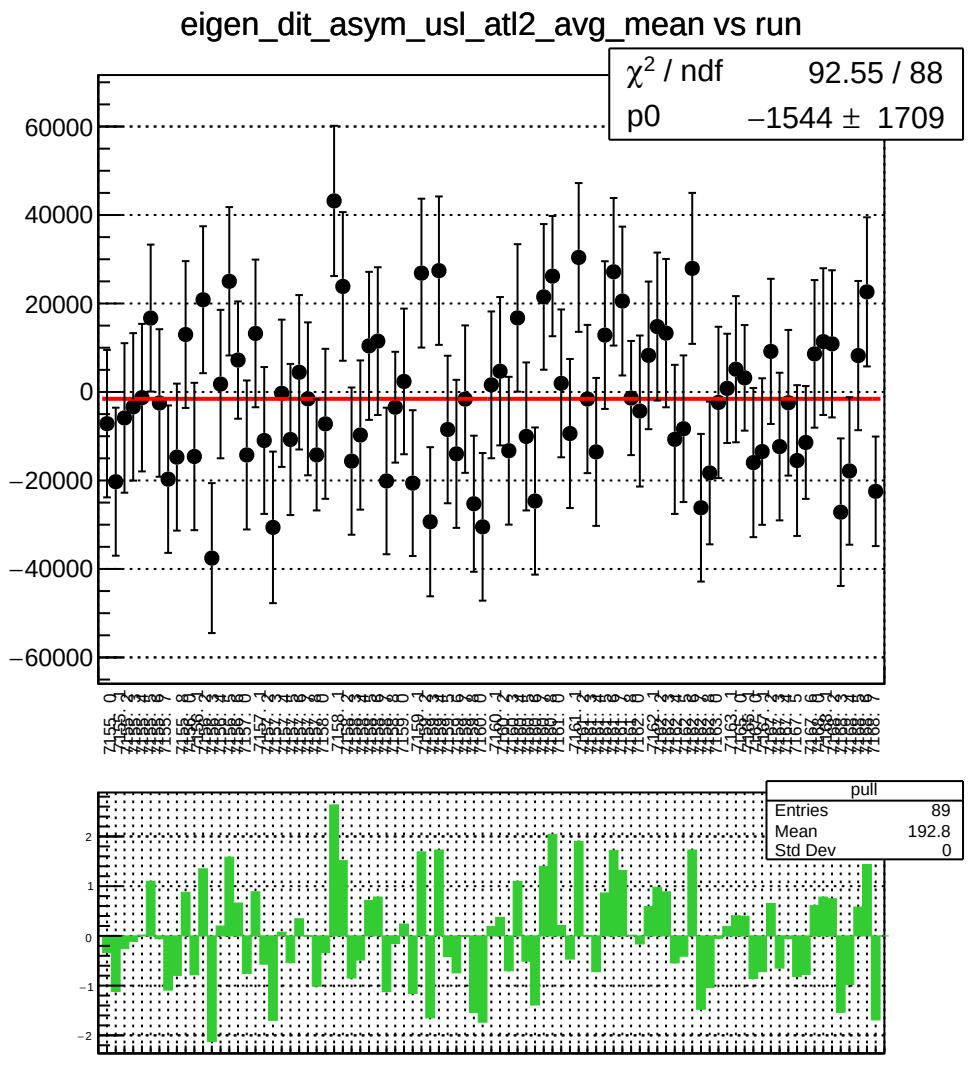

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 92.55 / 88
p0 −1544 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 192.8
Std Dev 0
2
1
0
−1
−2

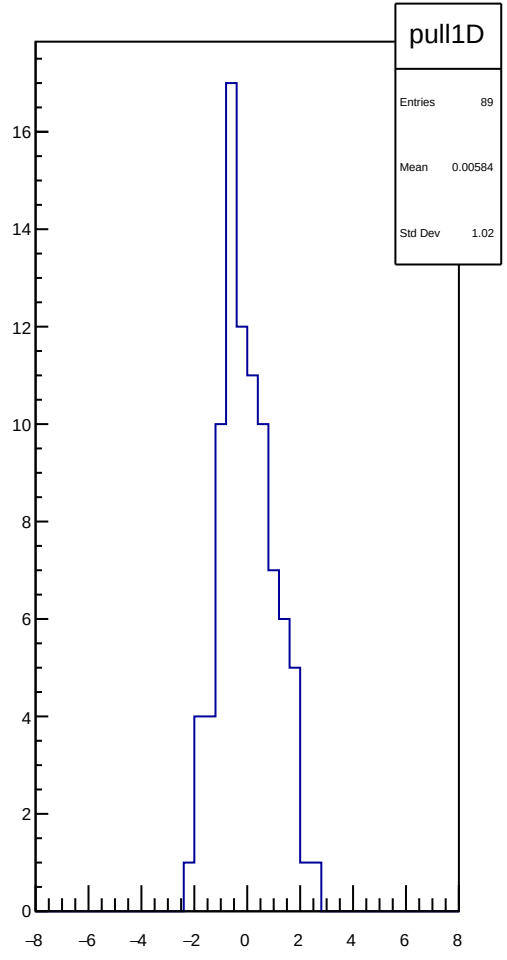

pull1D
Entries 89
Mean 0.00584
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

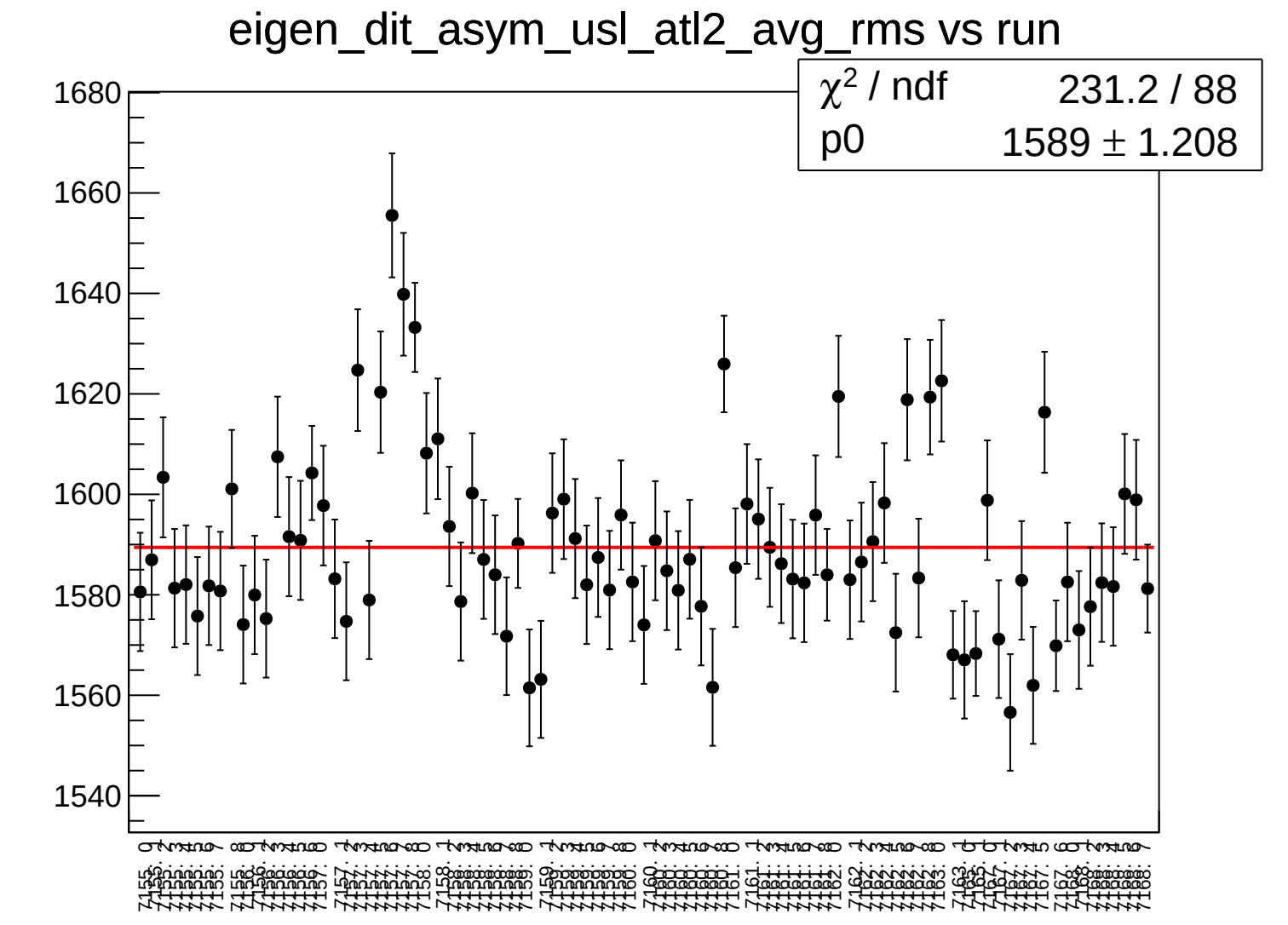

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 231.2 / 88
p0 1589 ± 1.208
1680
1660
1640
1620
1600
1580
1560
1540

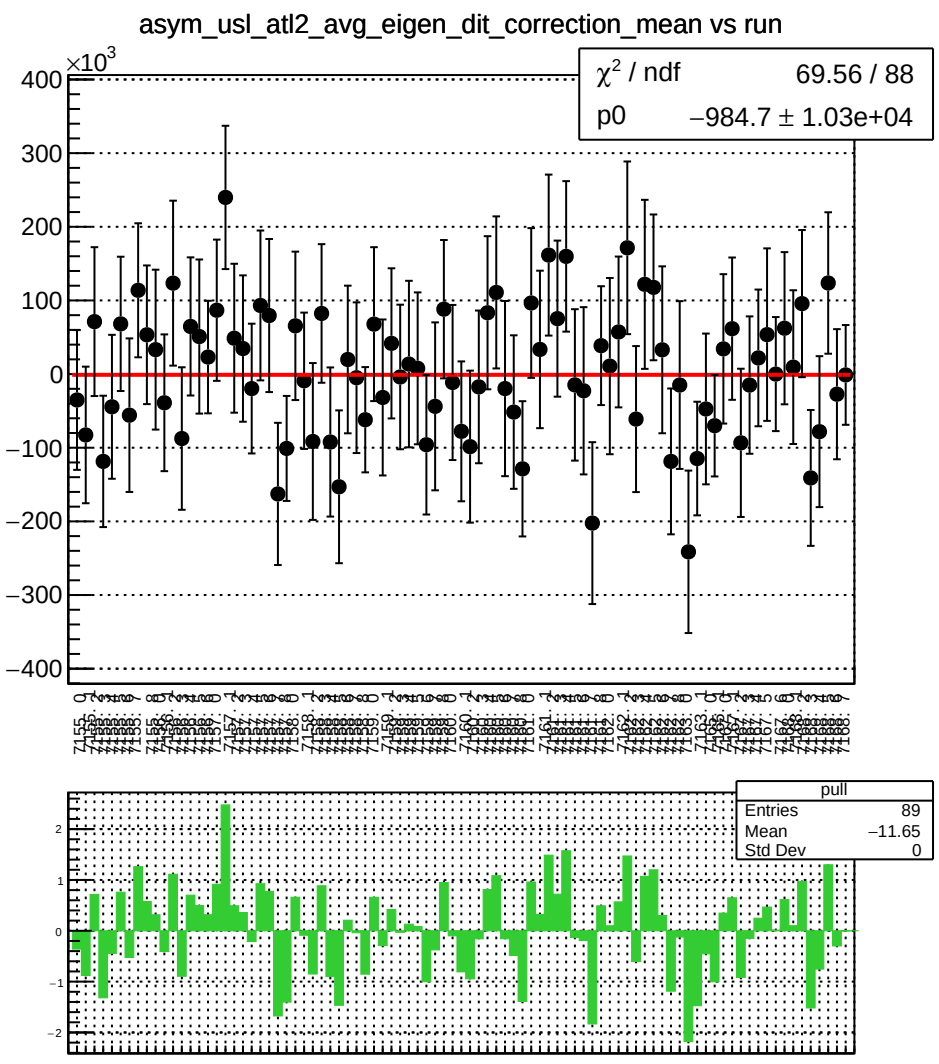

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.56 / 88
p0 −984.7 ± 1.03e+04
pull
Entries 89
Mean −11.65
Std Dev 0
pull1D
Entries 89
Mean 0.02432
Std Dev 0.8837

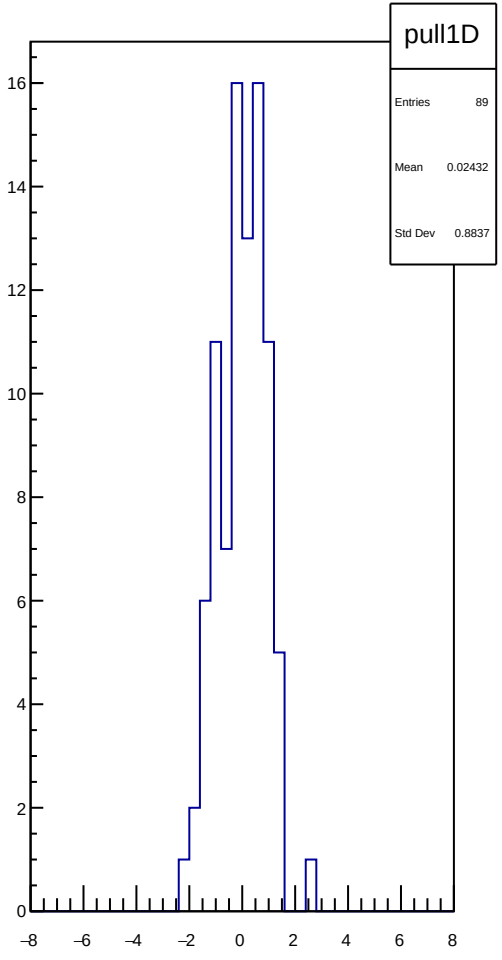

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 8542 / 88
p0 9555 ± 7.282
11500
11000
10500
10000
9500
9000
8500
8000

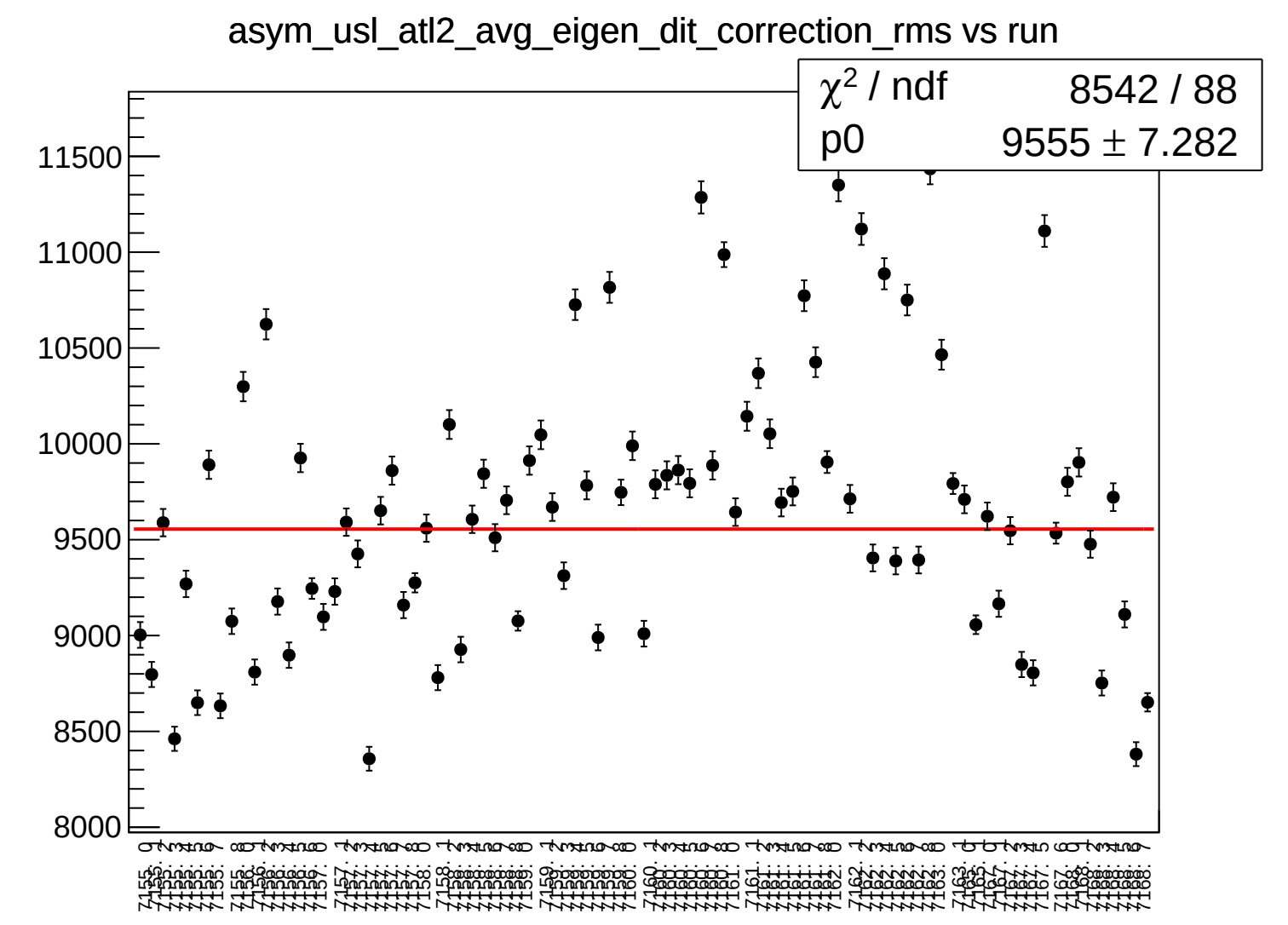

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 92.55 / 88
p0 −1544 ± 1709
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 192.8
Std Dev 0
2
1
0
−1
−2

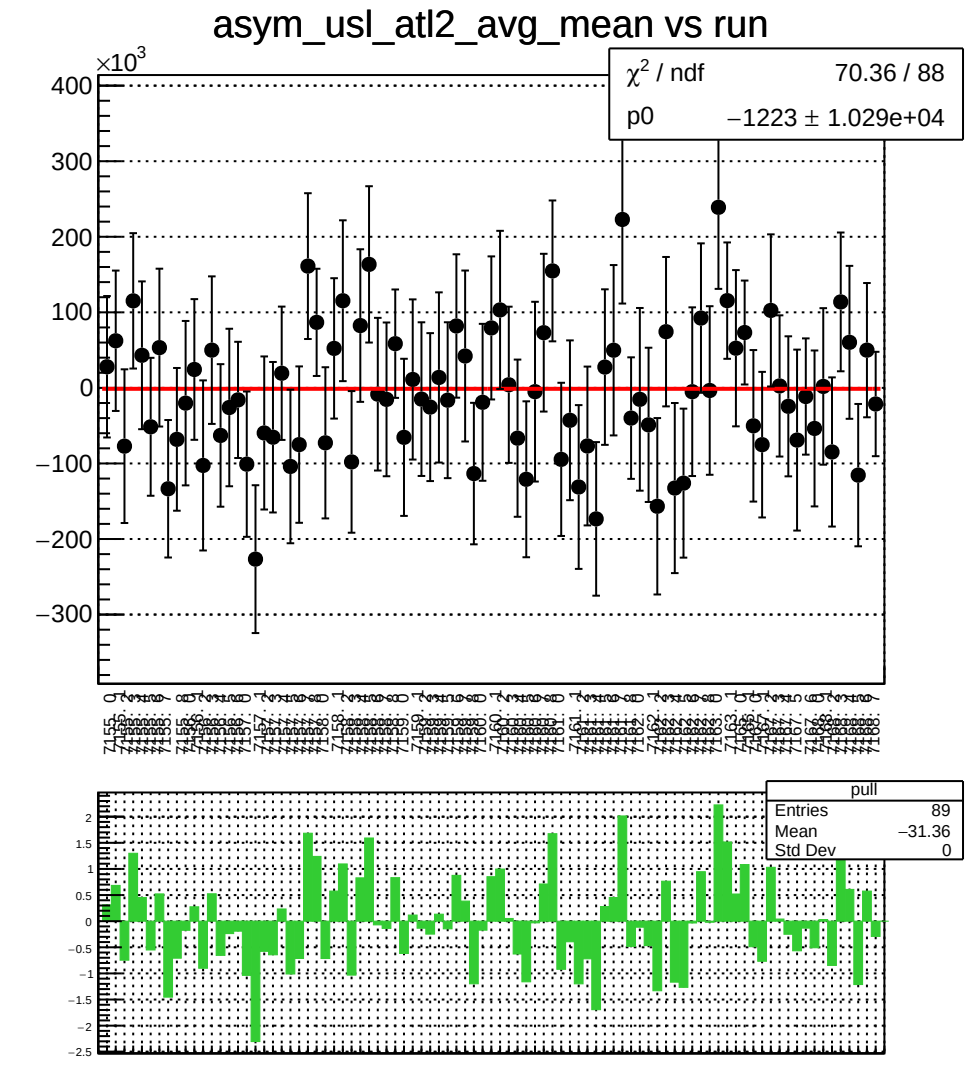

pull1D
Entries 89
Mean 0.00584
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

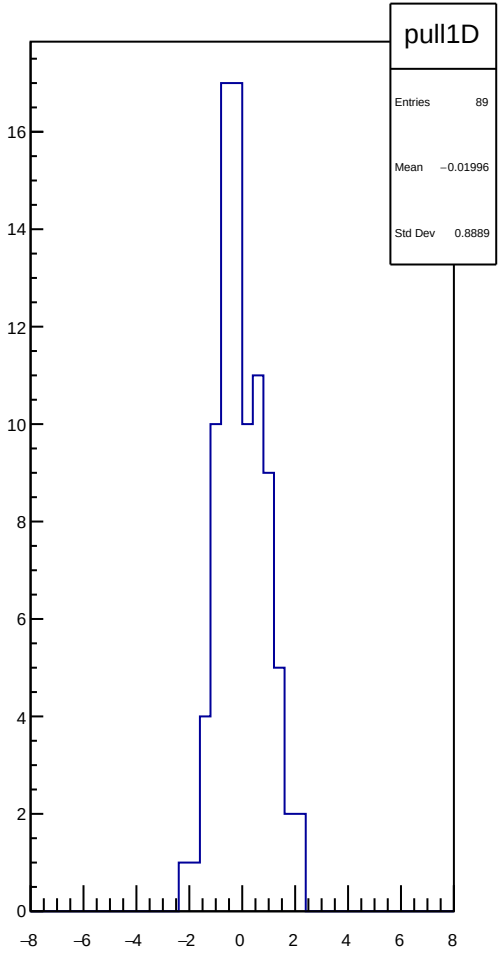

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 231.2 / 88
p0 1589 ± 1.208
1680
1660
1640
1620
1600
1580
1560
1540

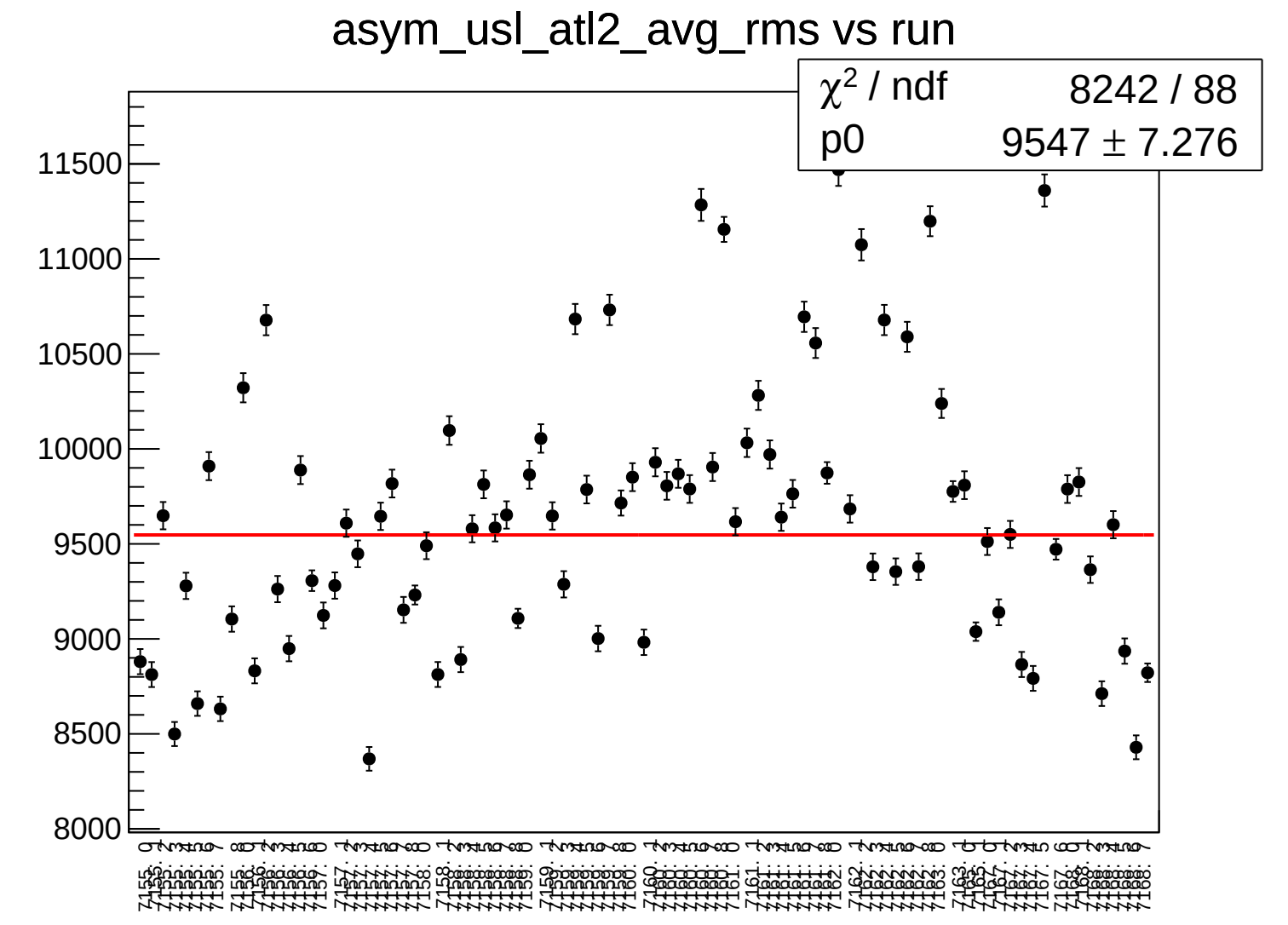

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.56 / 88
p0 −984.7 ± 1.03e+04
pull
Entries 89
Mean −11.65
Std Dev 0

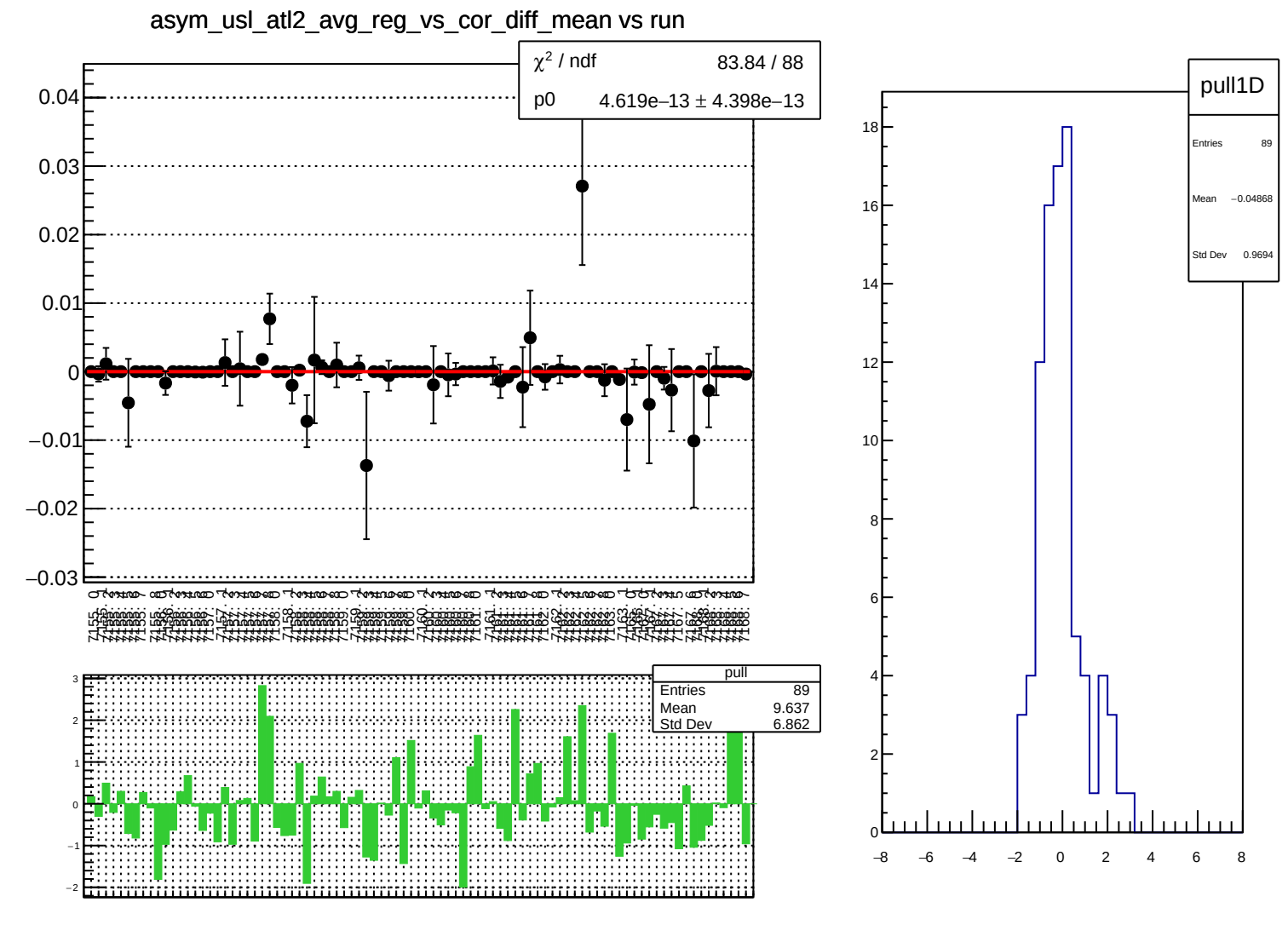

pull1D
Entries 89
Mean 0.02432
Std Dev 0.8837

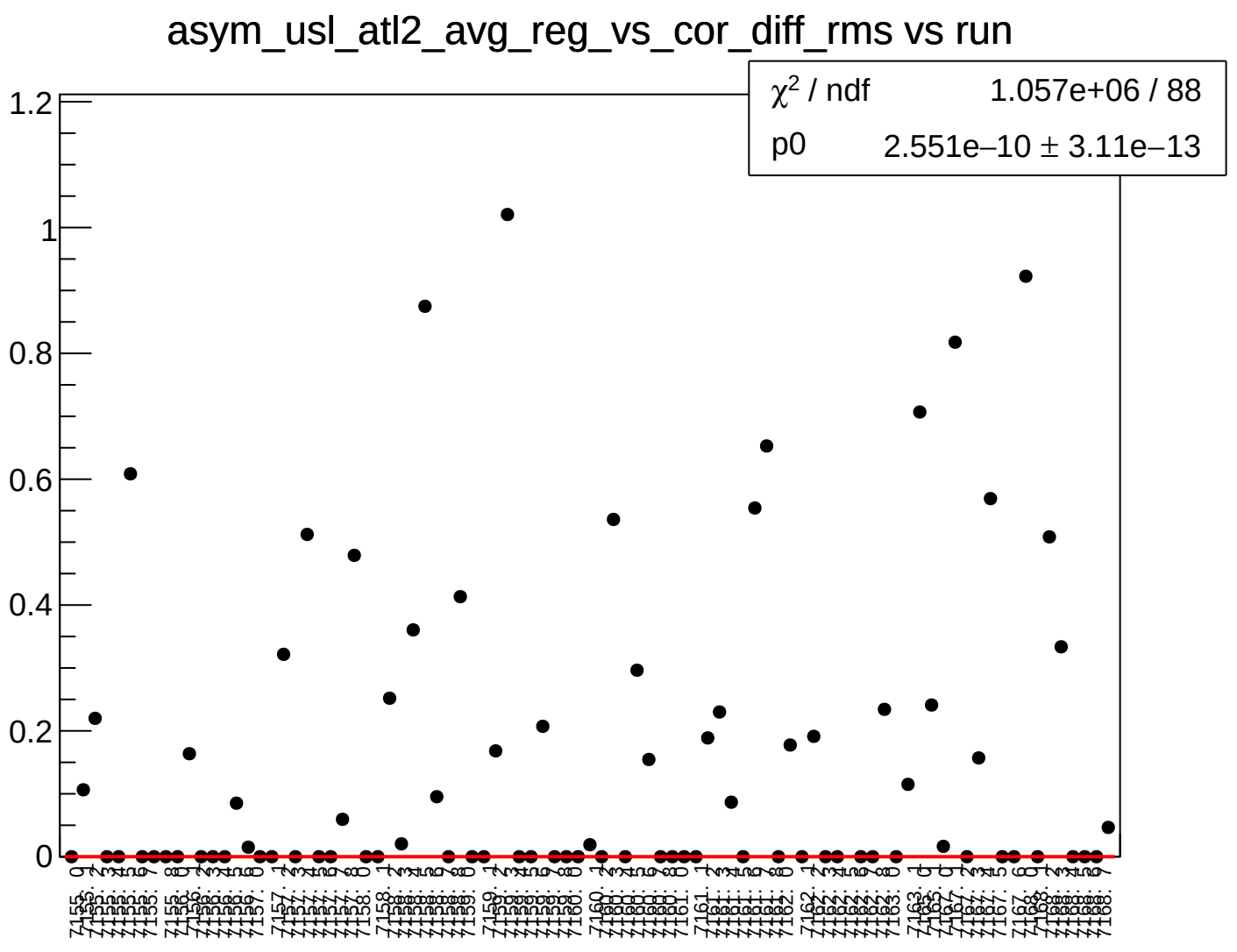

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 8542 / 88
p0 9555 ± 7.282
11500
11000
10500
10000
9500
9000
8500
8000

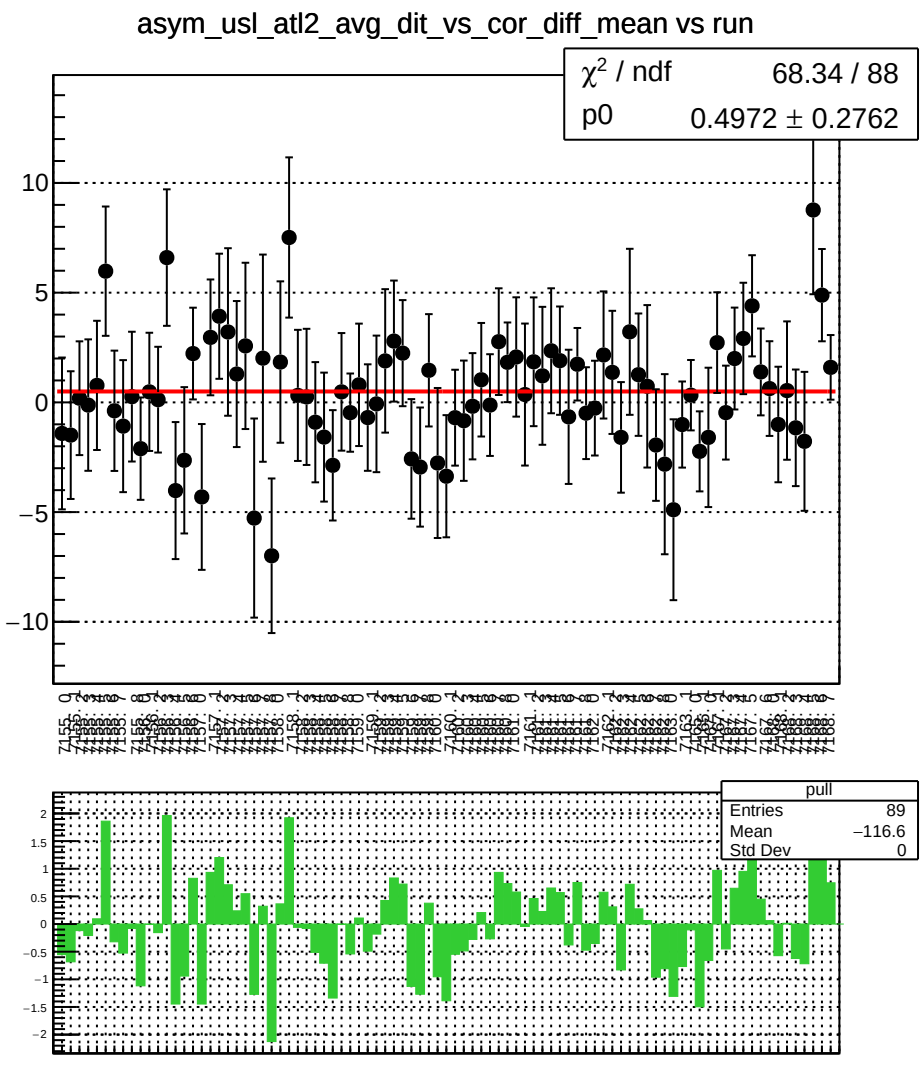

asym_usl_atl2_avg_mean vs run
×10^3
χ² / ndf 70.36 / 88
p0 −1223 ± 1.029e+04
pull
Entries 89
Mean −31.36
Std Dev 0

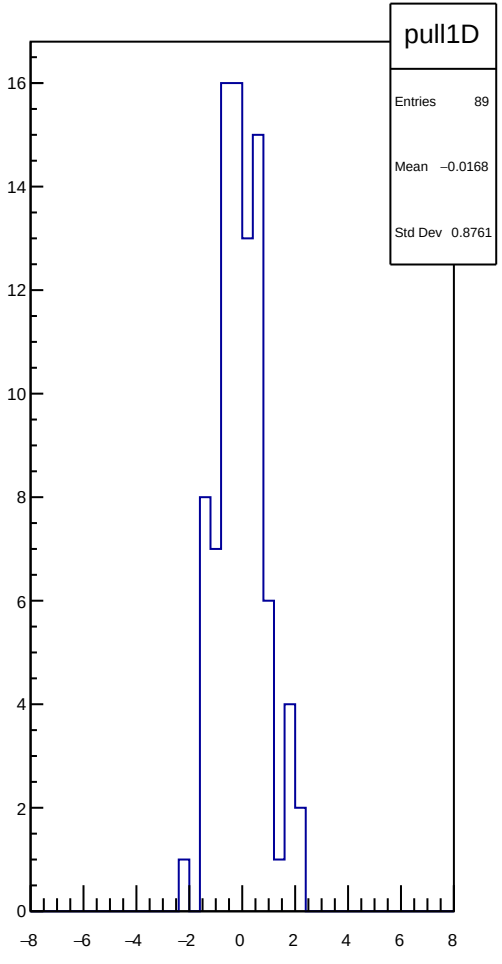

pull1D
Entries 89
Mean −0.01996
Std Dev 0.8889

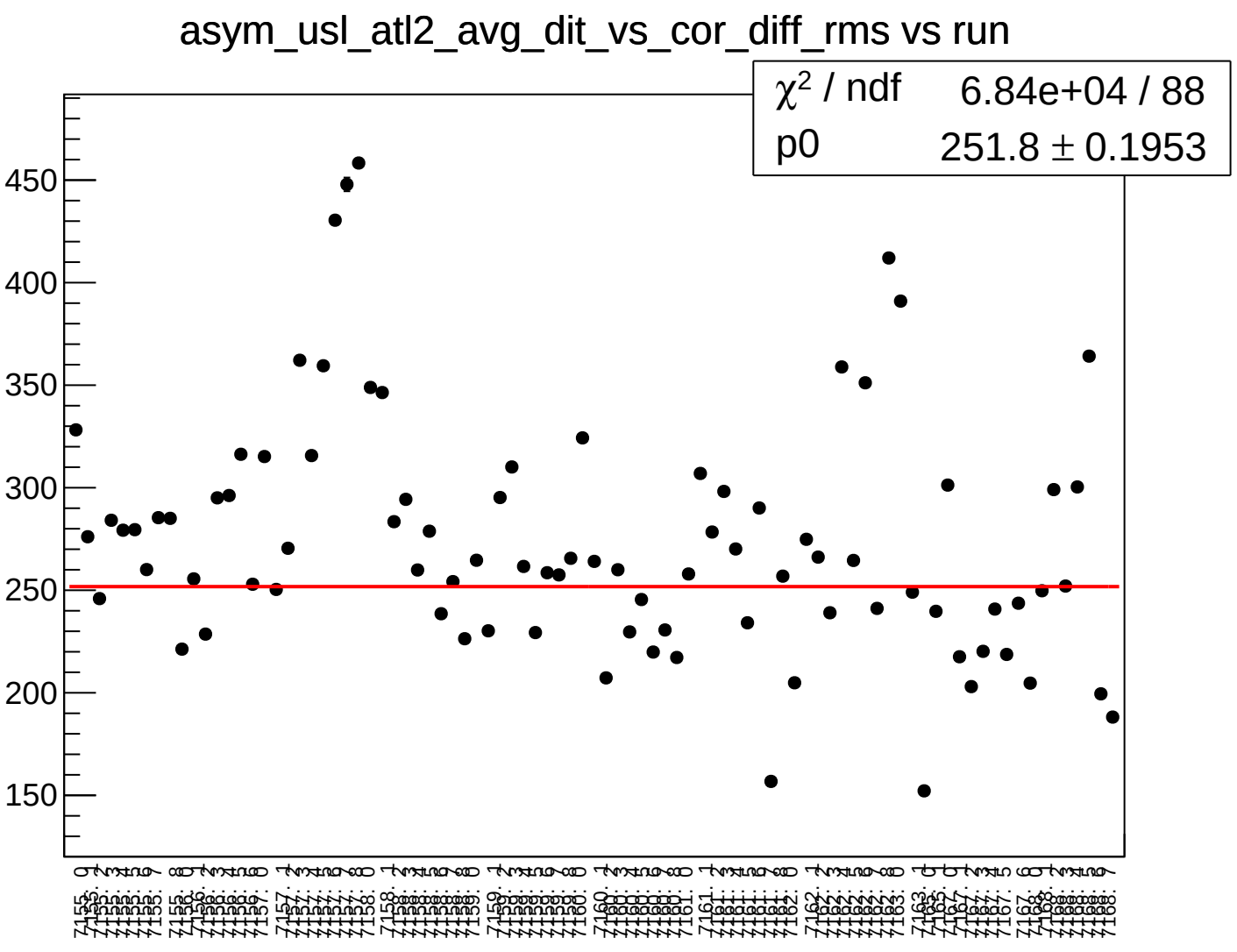

asym_usl_atl2_avg_rms vs run
χ² / ndf 8242 / 88
p0 9547 ± 7.276
11500
11000
10500
10000
9500
9000
8500
8000

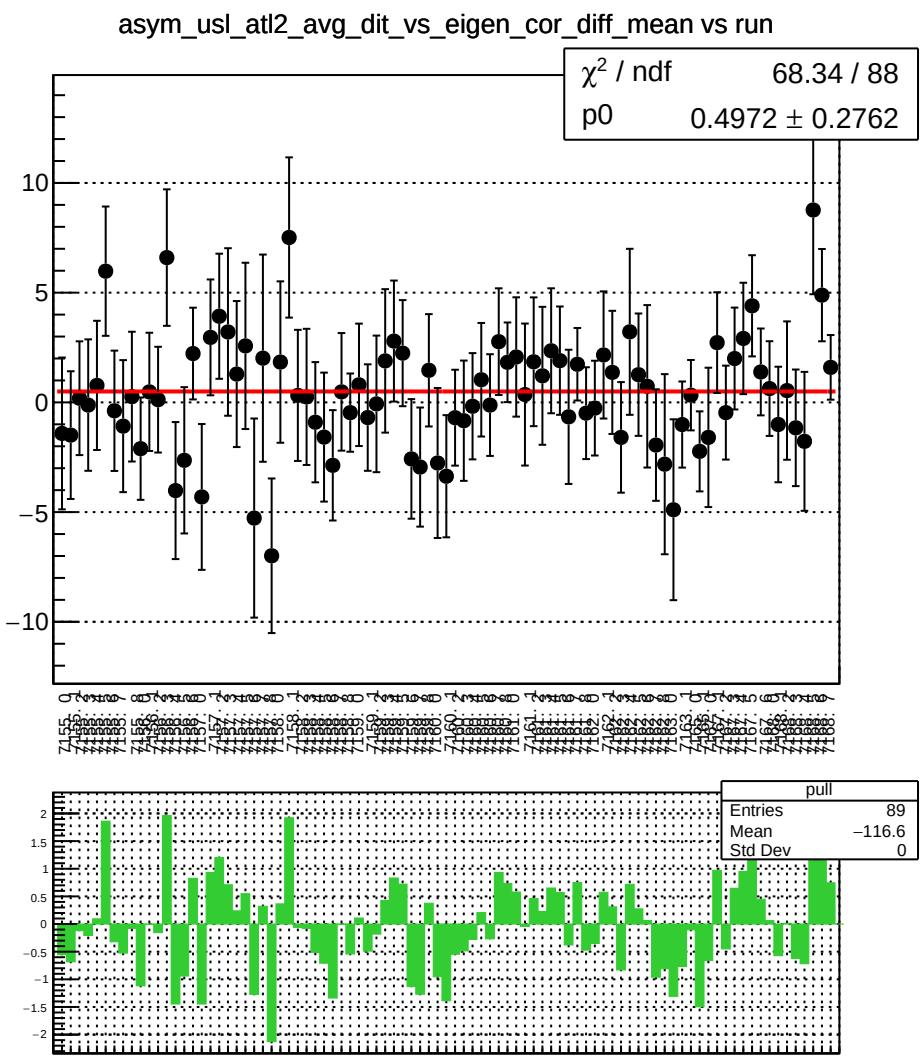

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.84 / 88
p0 4.619e−13 ± 4.398e−13
pull
Entries 89
Mean 9.637
Std Dev 6.862
pull1D
Entries 89
Mean −0.04868
Std Dev 0.9694

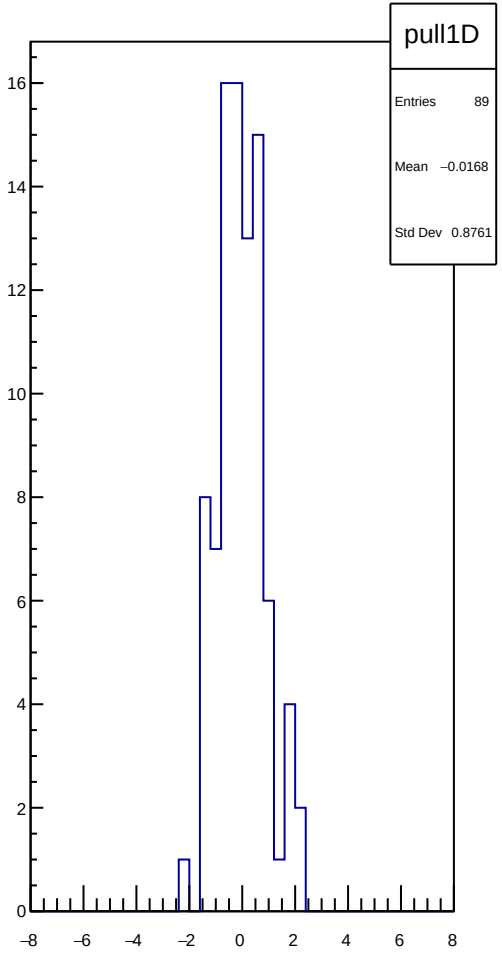

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.057e+06 / 88
p0 2.551e−10 ± 3.11e−13
1.2
1
0.8
0.6
0.4
0.2
0

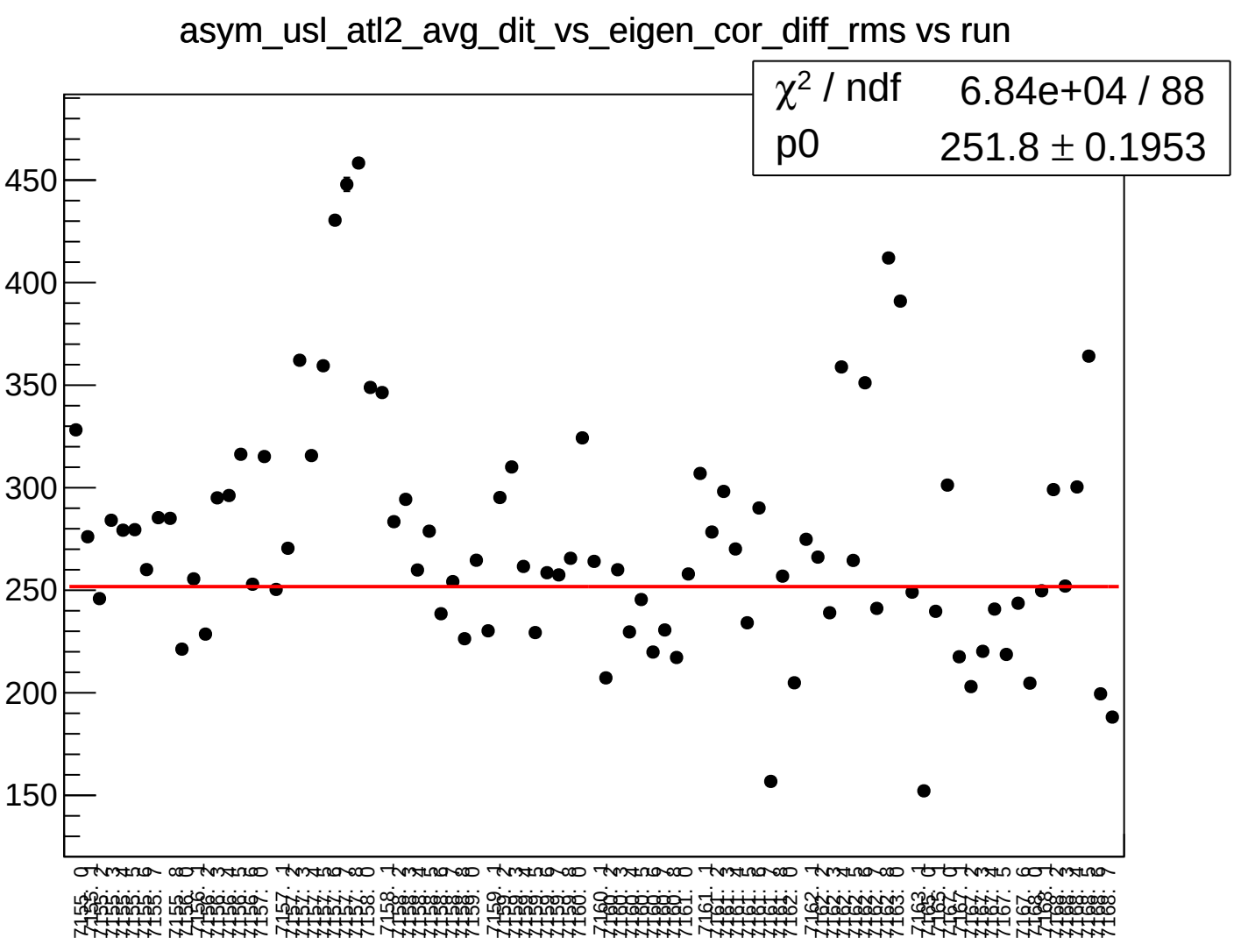

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 68.34 / 88
p0 0.4972 ± 0.2762
pull
Entries 89
Mean −116.6
Std Dev 0

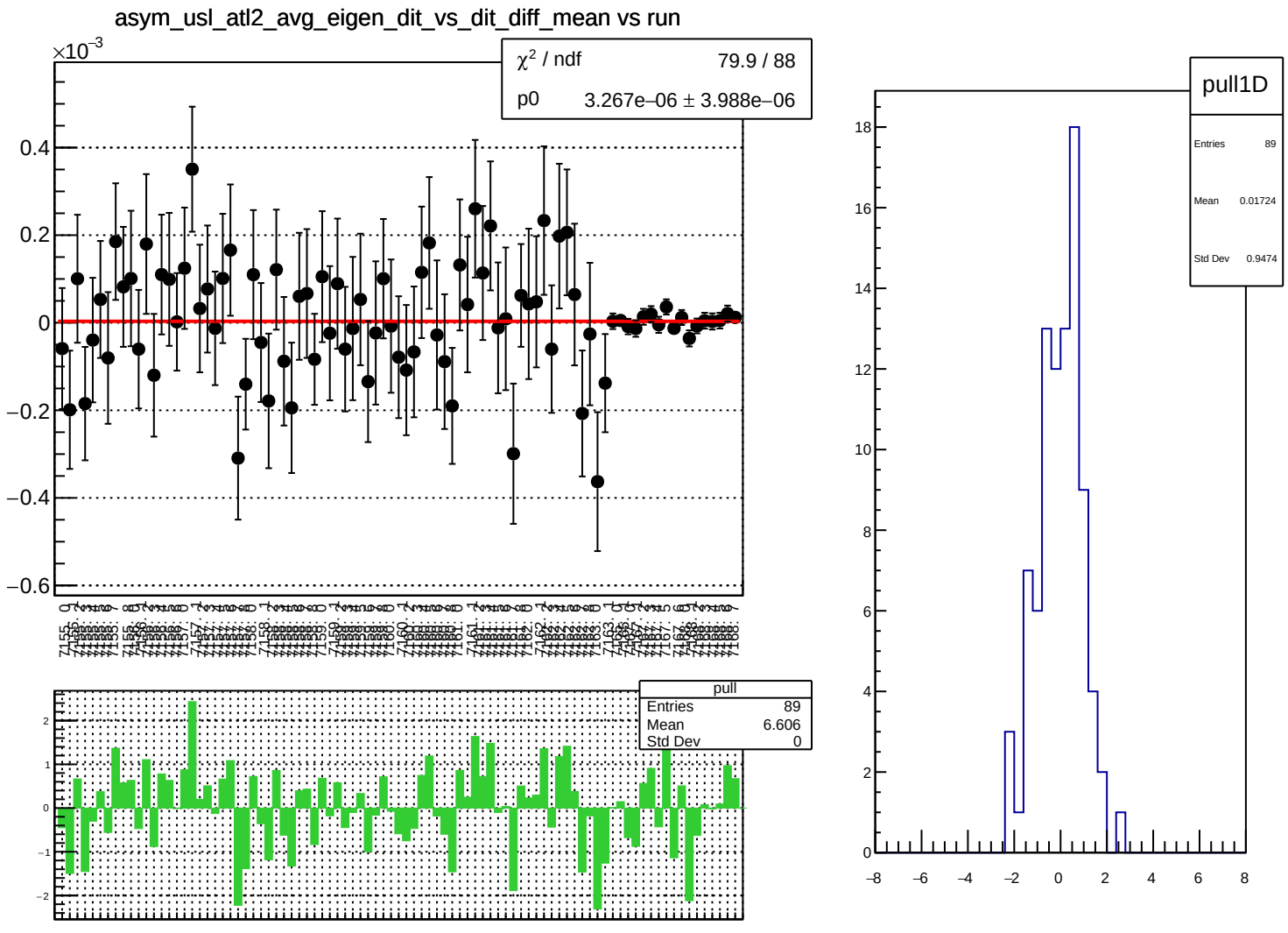

pull1D
Entries 89
Mean −0.0168
Std Dev 0.8761

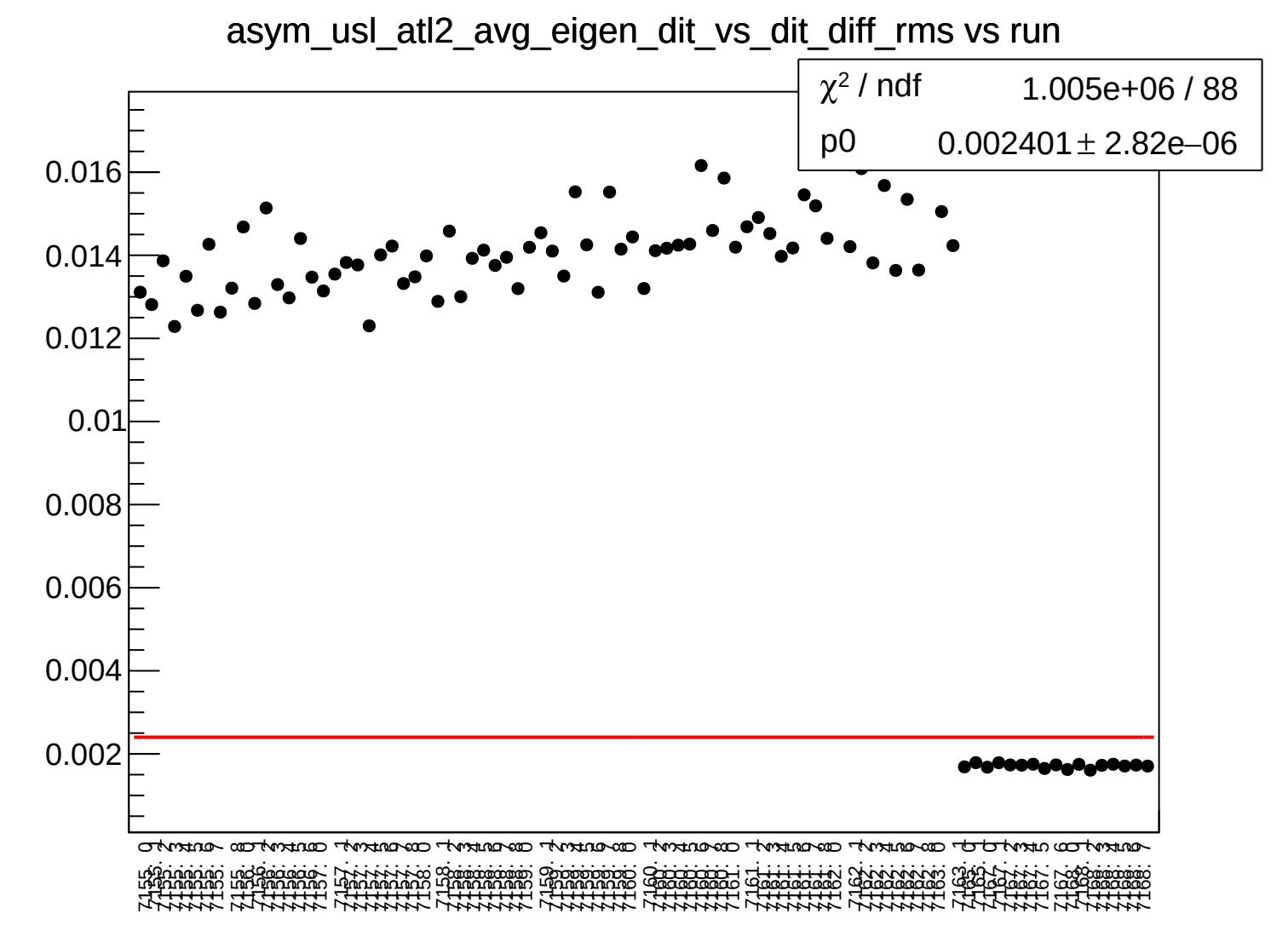

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.84e+04 / 88
p0 251.8 ± 0.1953
450
400
350
300
250
200
150

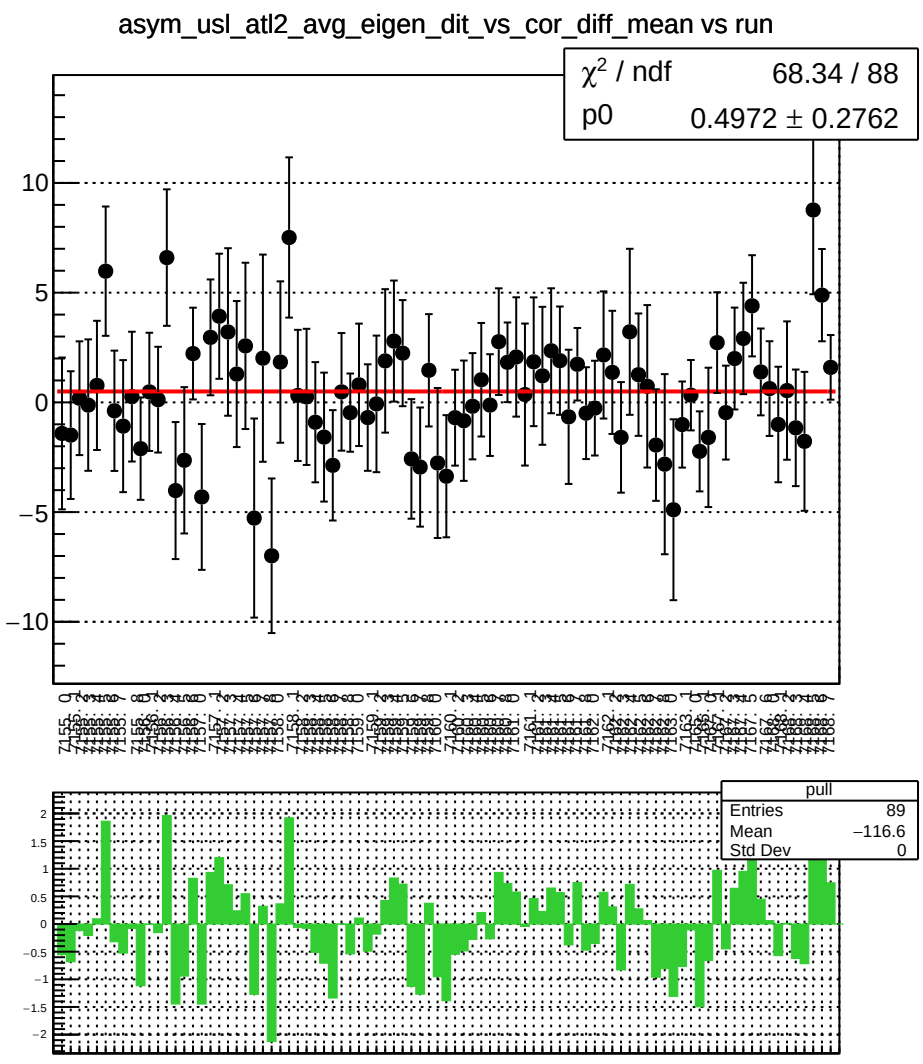

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.34 / 88
p0 0.4972 ± 0.2762
pull
Entries 89
Mean −116.6
Std Dev 0

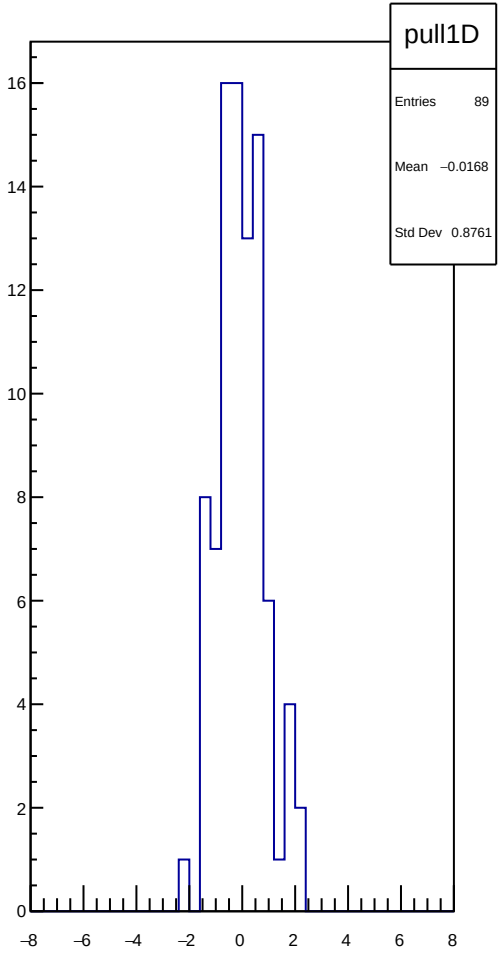

pull1D
Entries 89
Mean −0.0168
Std Dev 0.8761

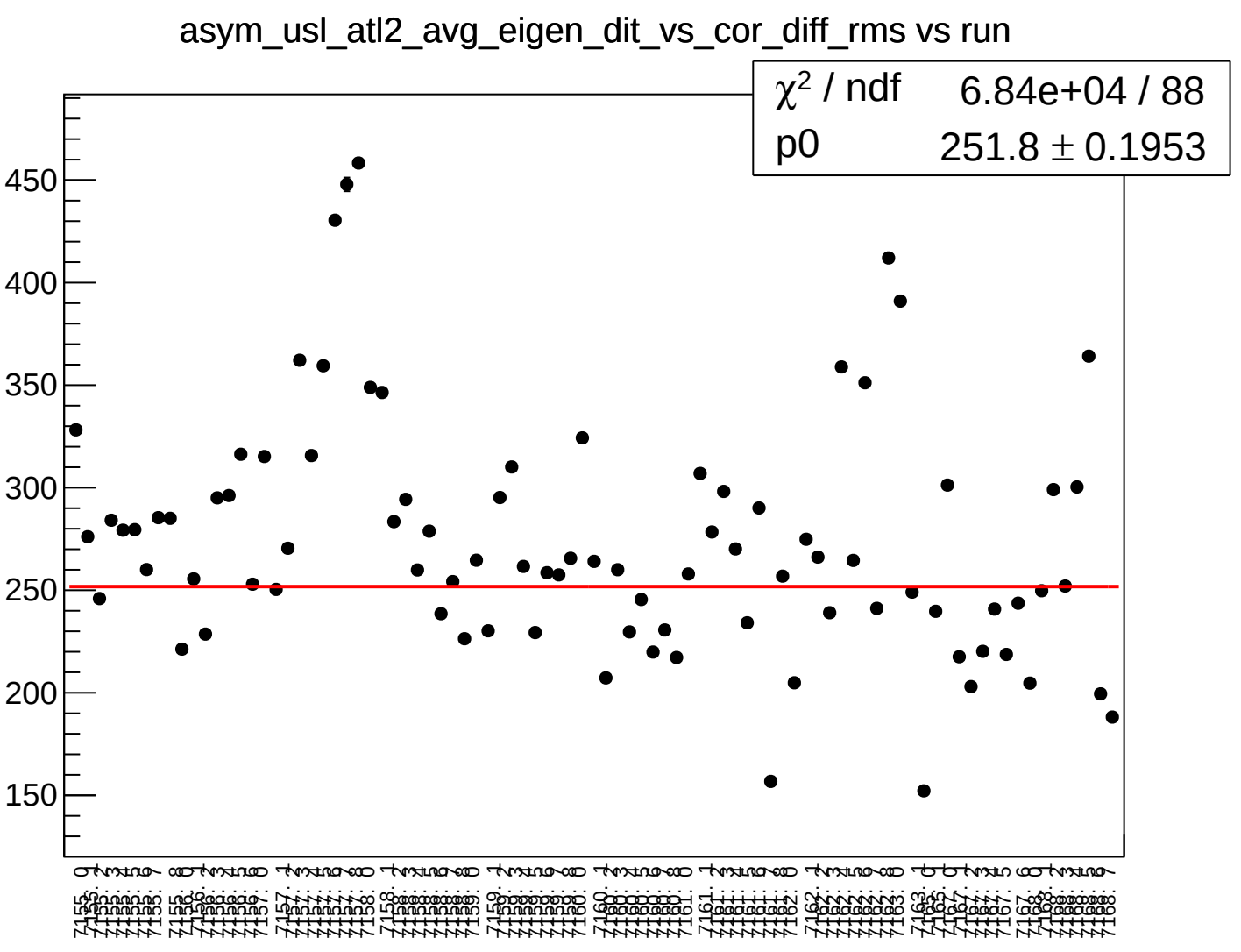

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.84e+04 / 88
p0 251.8 ± 0.1953
450
400
350
300
250
200
150

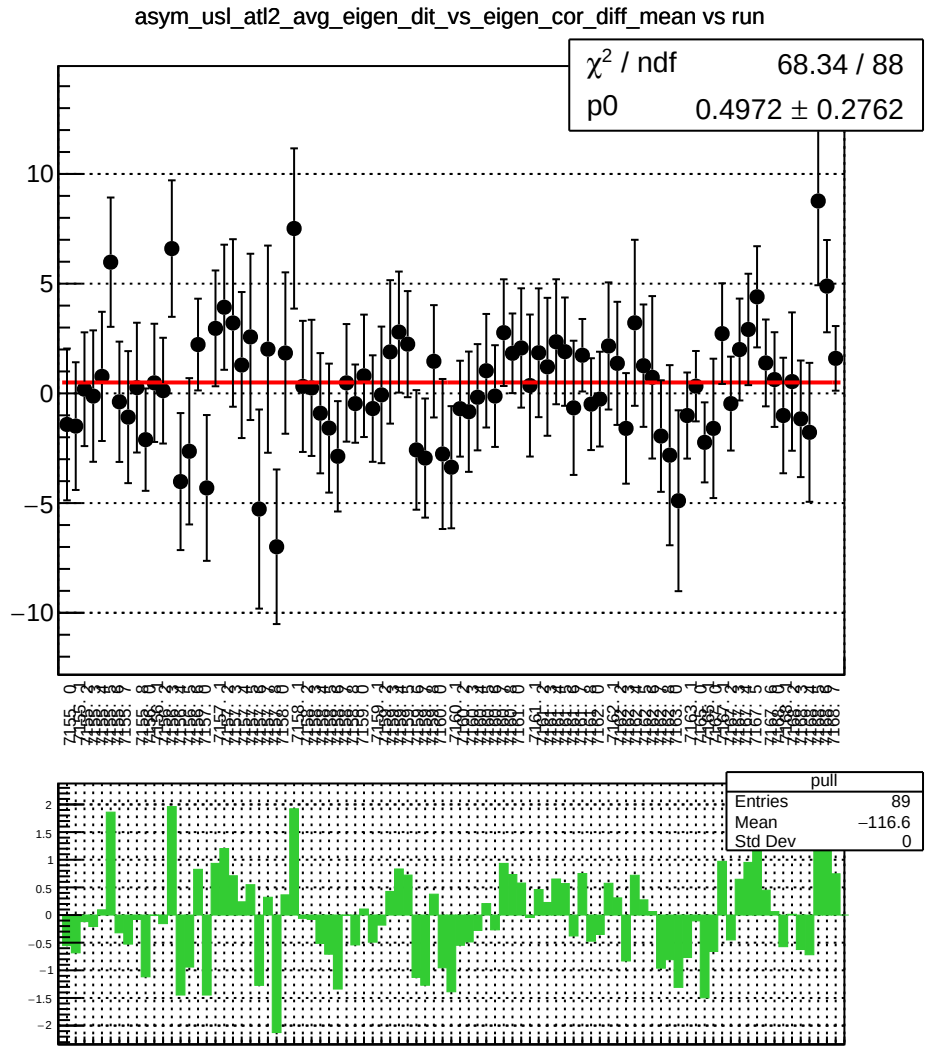

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.9 / 88
p0 3.267e−06 ± 3.988e−06
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 89
Mean 6.606
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.01724
Std Dev 0.9474
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

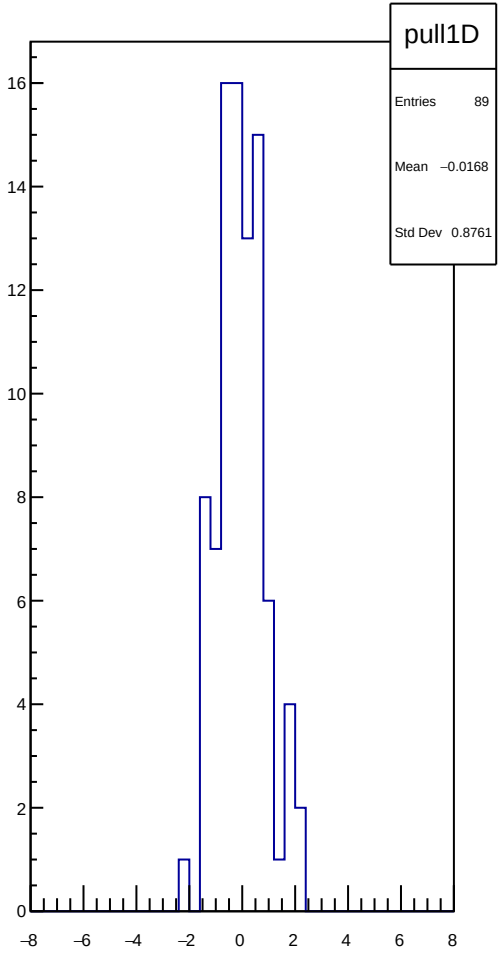

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.005e+06 / 88
p0 0.002401 ± 2.82e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

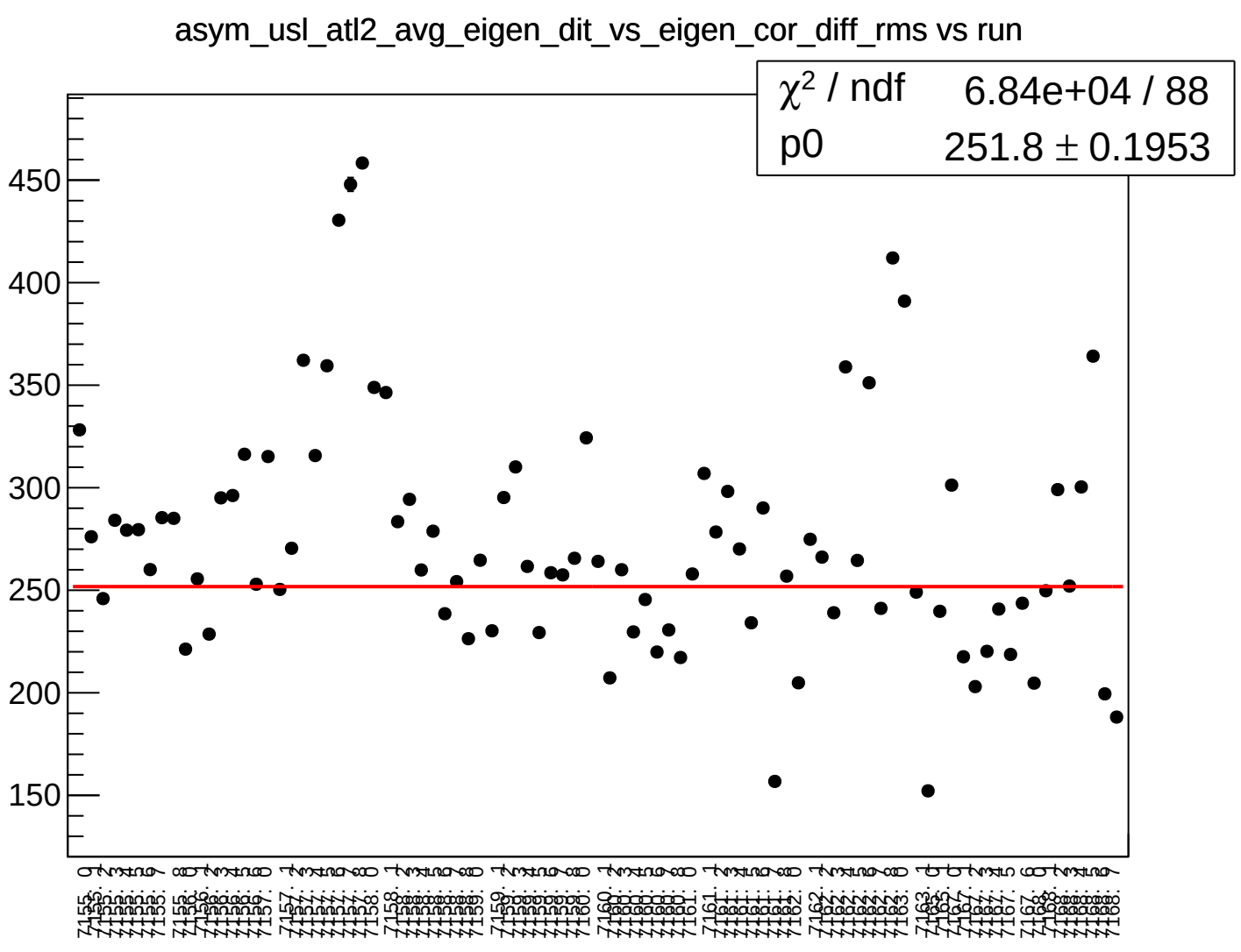

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.34 / 88
p0 0.4972 ± 0.2762
pull
Entries 89
Mean −116.6
Std Dev 0

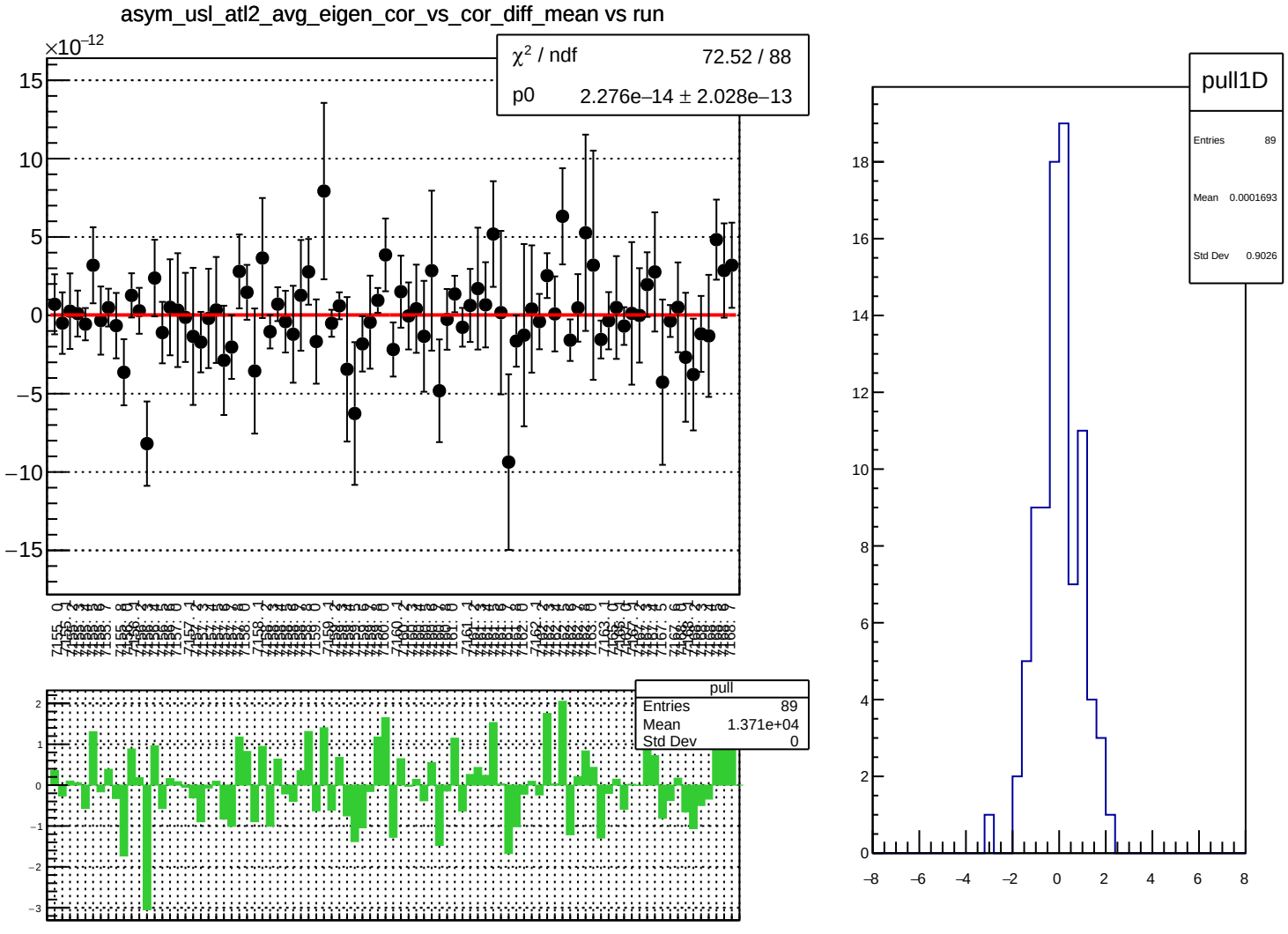

pull1D
Entries 89
Mean −0.0168
Std Dev 0.8761

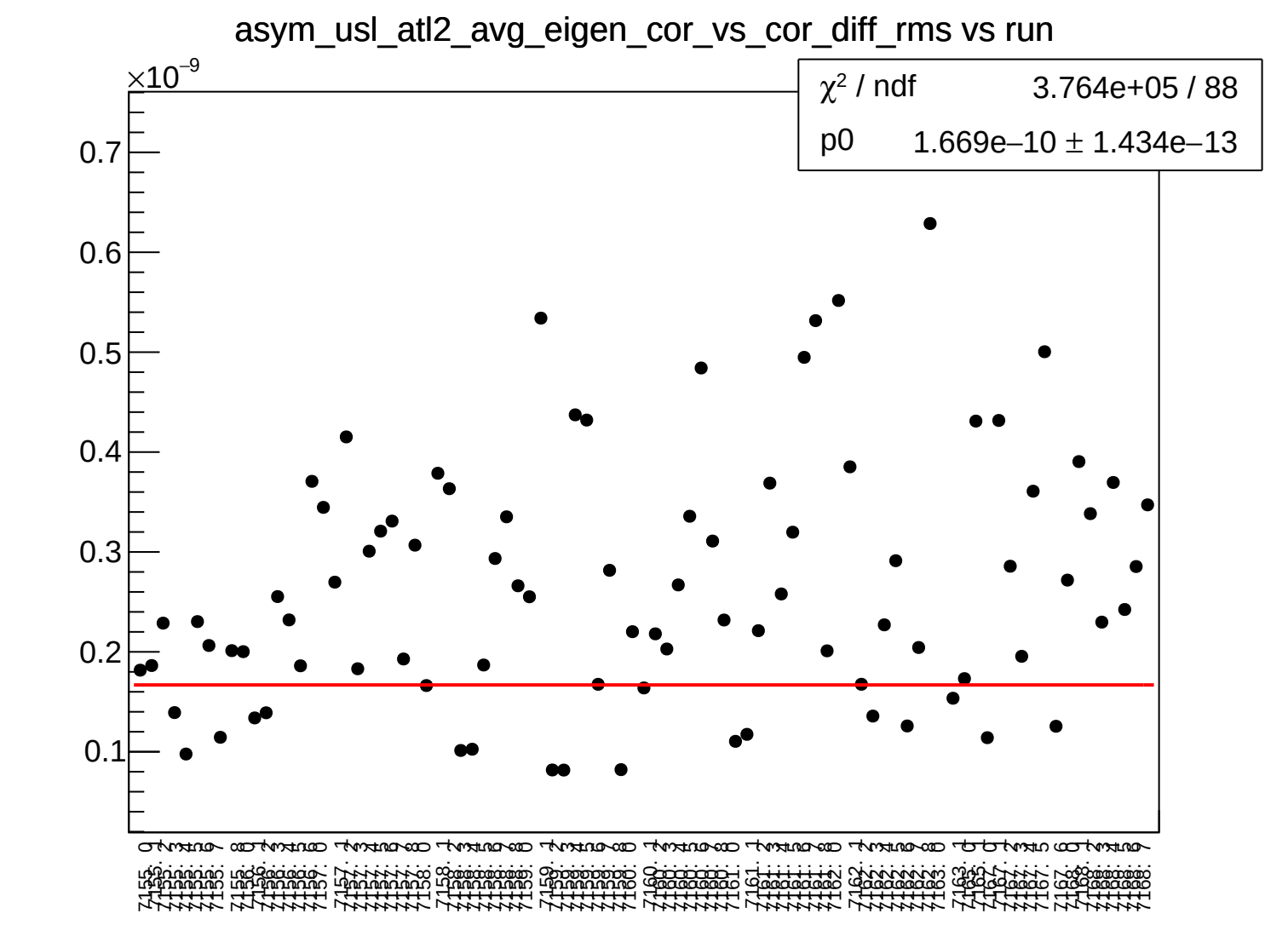

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.84e+04 / 88
p0 251.8 ± 0.1953
450
400
350
300
250
200
150

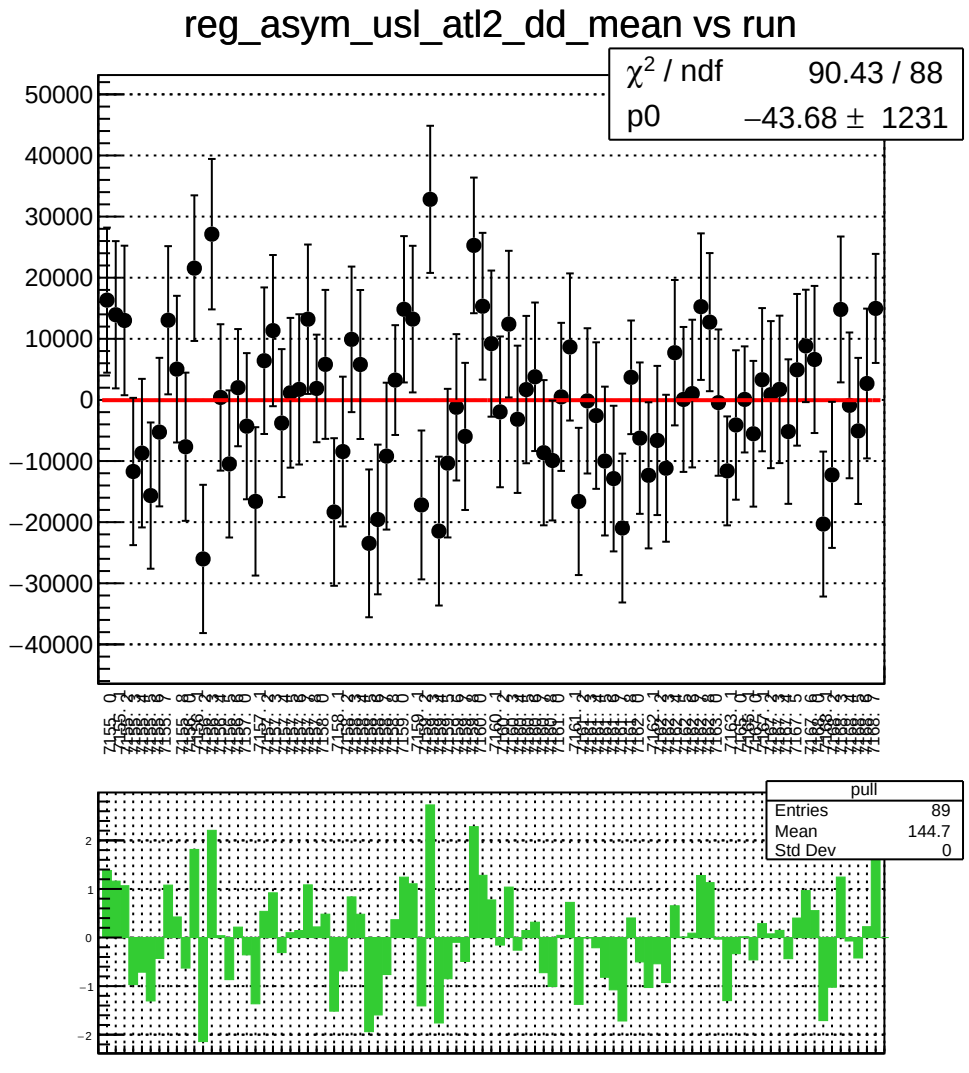

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.34 / 88
p0 0.4972 ± 0.2762
pull
Entries 89
Mean −116.6
Std Dev 0

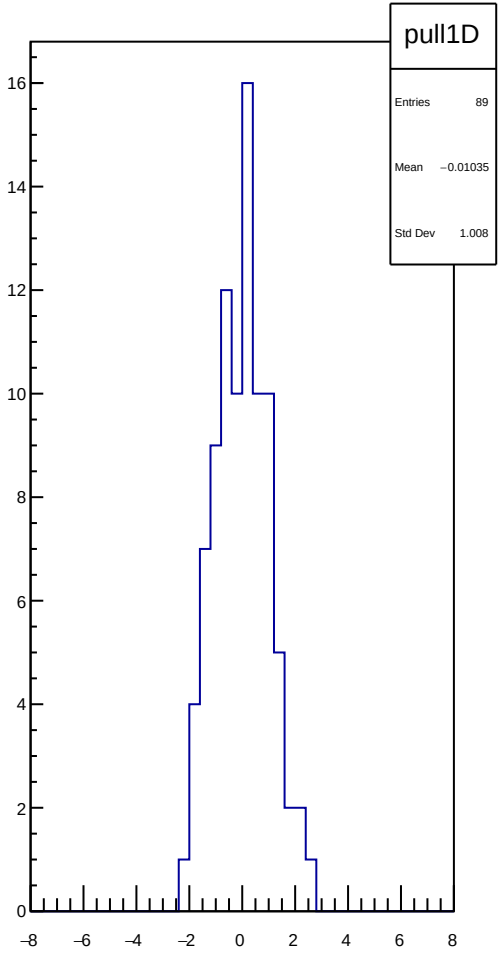

pull1D
Entries 89
Mean −0.0168
Std Dev 0.8761

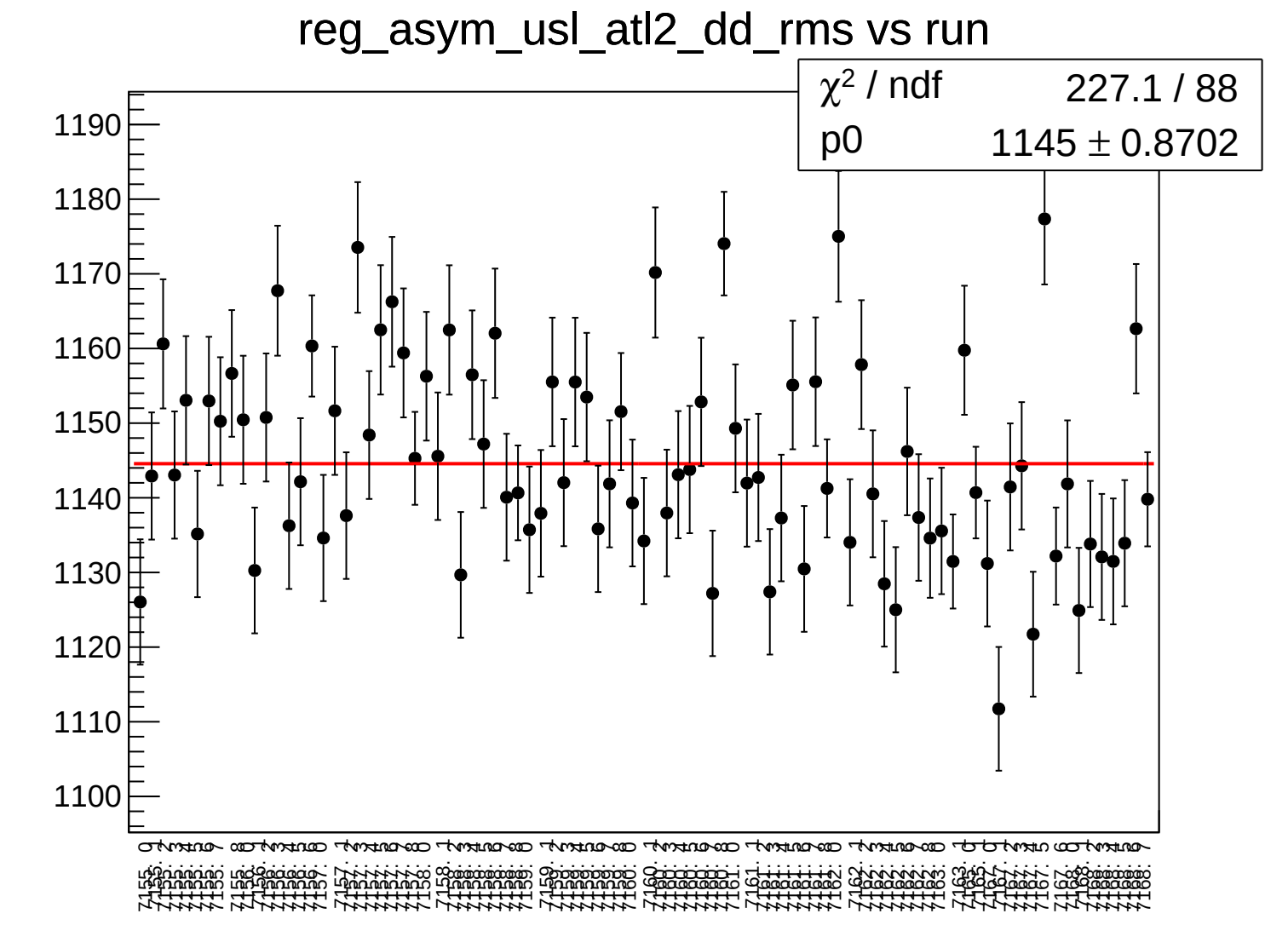

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.84e+04 / 88
p0 251.8 ± 0.1953
450
400
350
300
250
200
150

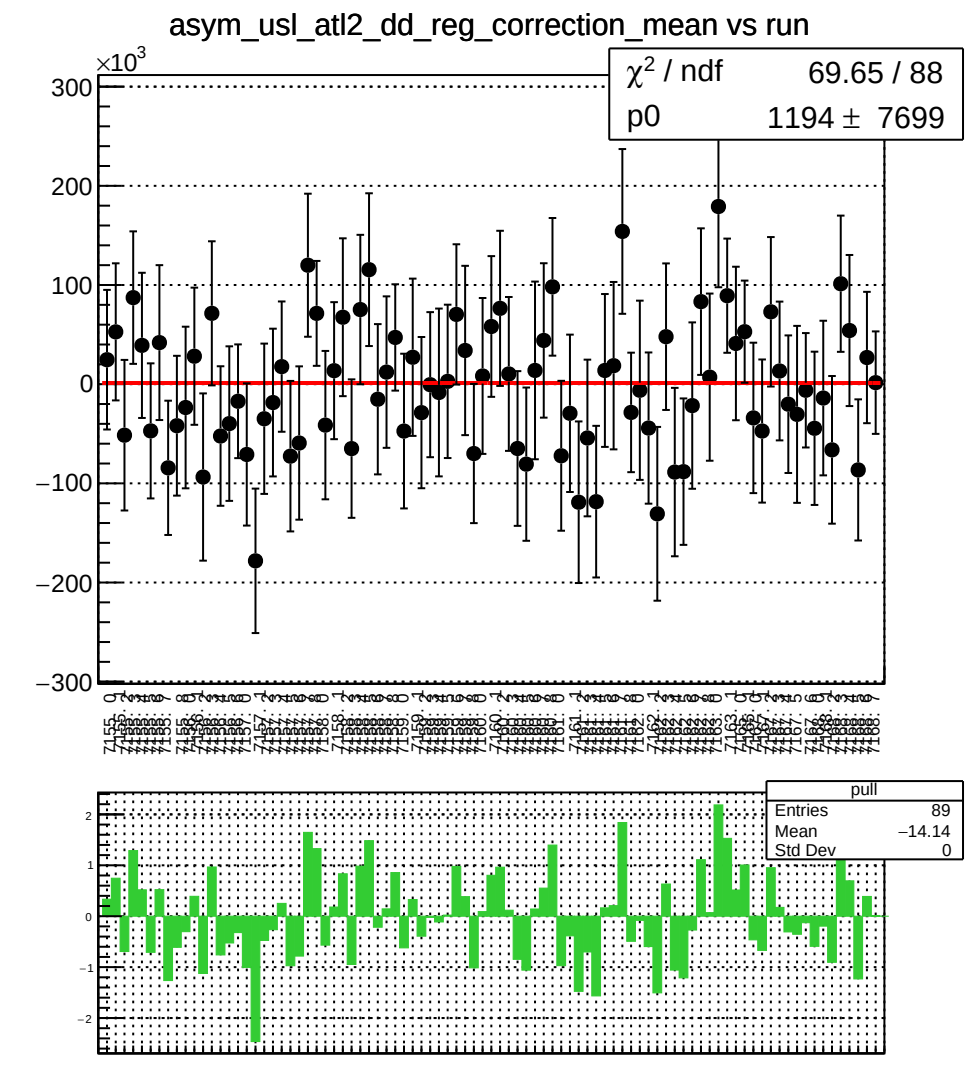

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 72.52 / 88
p0 2.276e−14 ± 2.028e−13
pull
Entries 89
Mean 1.371e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0001693
Std Dev 0.9026

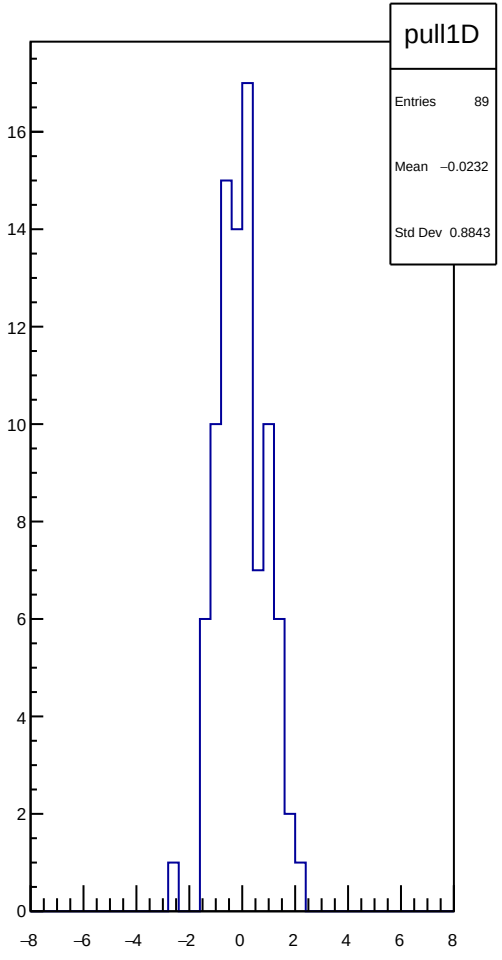

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.764e+05 / 88
p0 1.669e−10 ± 1.434e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1

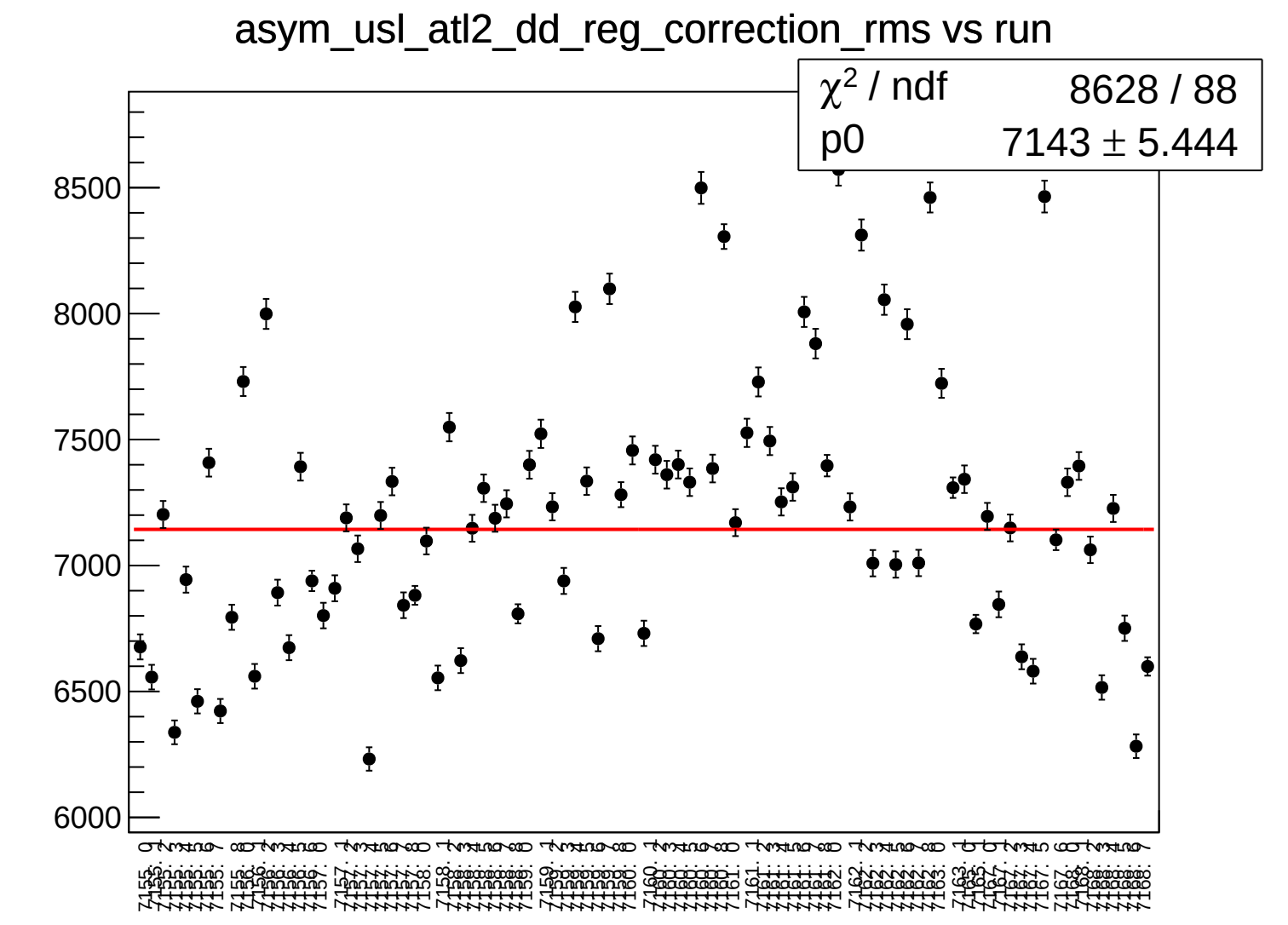

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.43 / 88
p0 −43.68 ± 1231
pull
Entries 89
Mean 144.7
Std Dev 0

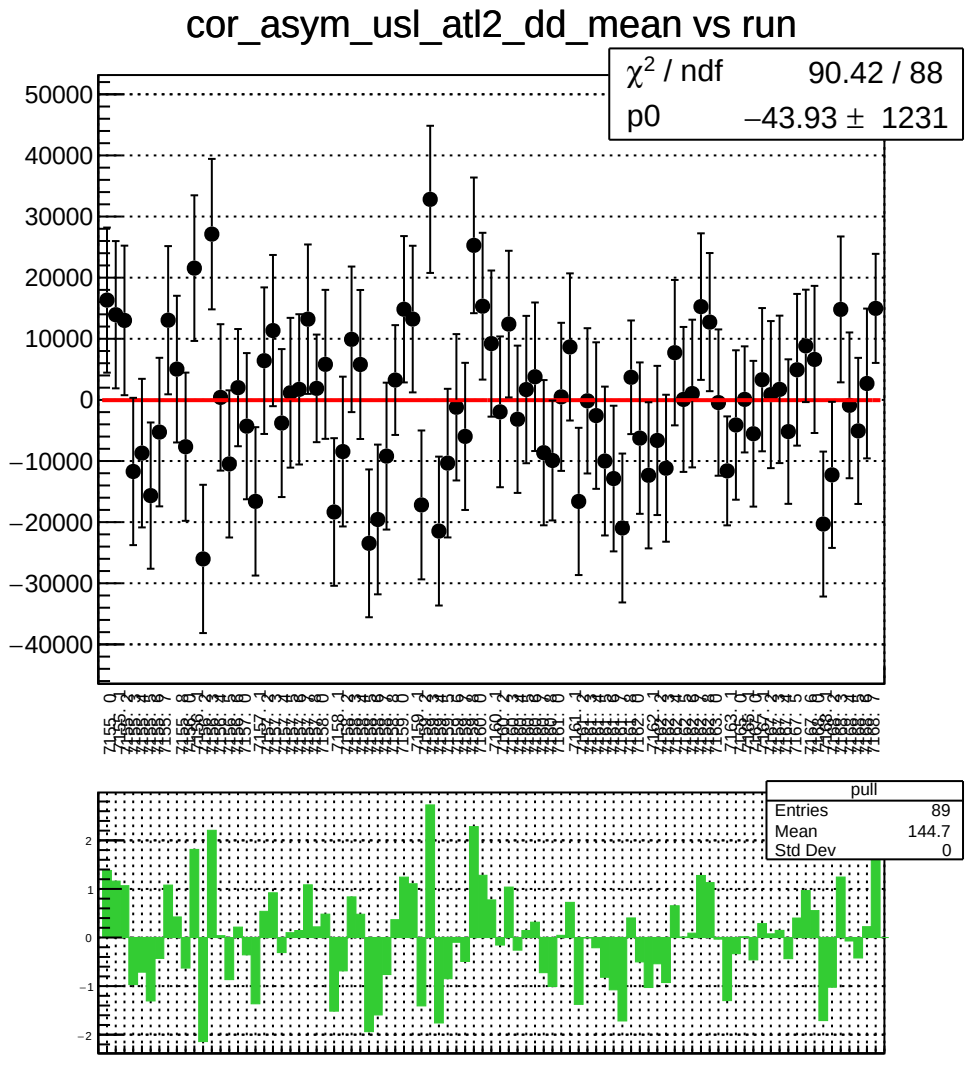

pull1D
Entries 89
Mean −0.01035
Std Dev 1.008

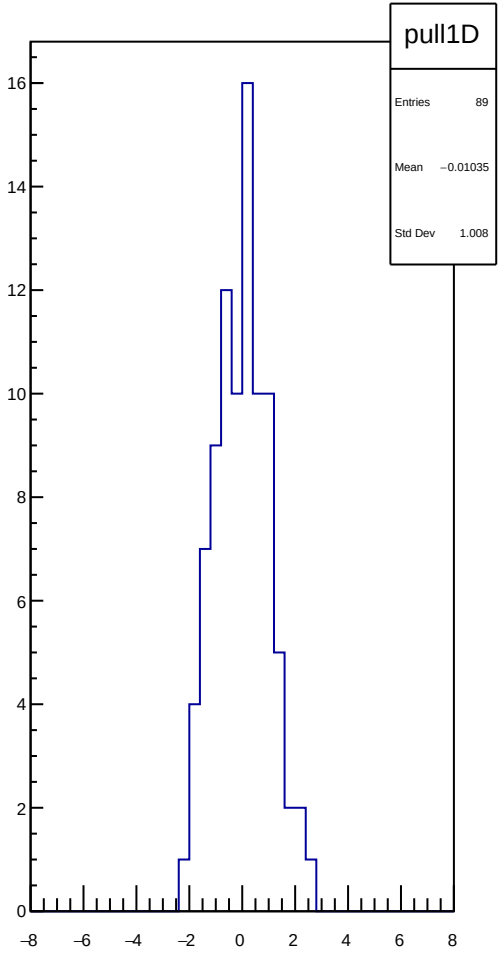

reg_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 227.1 / 88
p0 1145 ± 0.8702
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

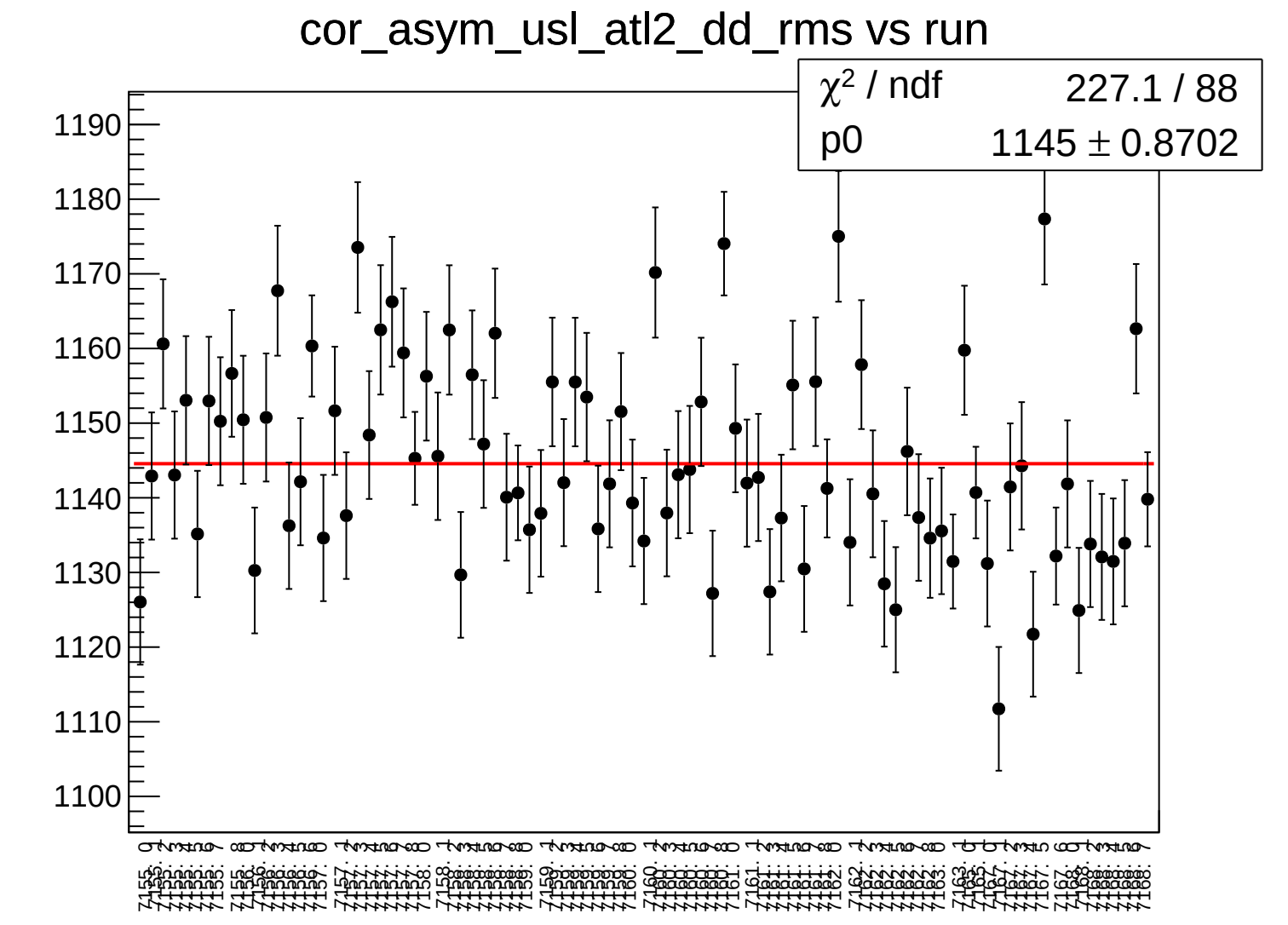

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.65 / 88
p0 1194 ± 7699
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −14.14
Std Dev 0
2
1
0
−1
−2

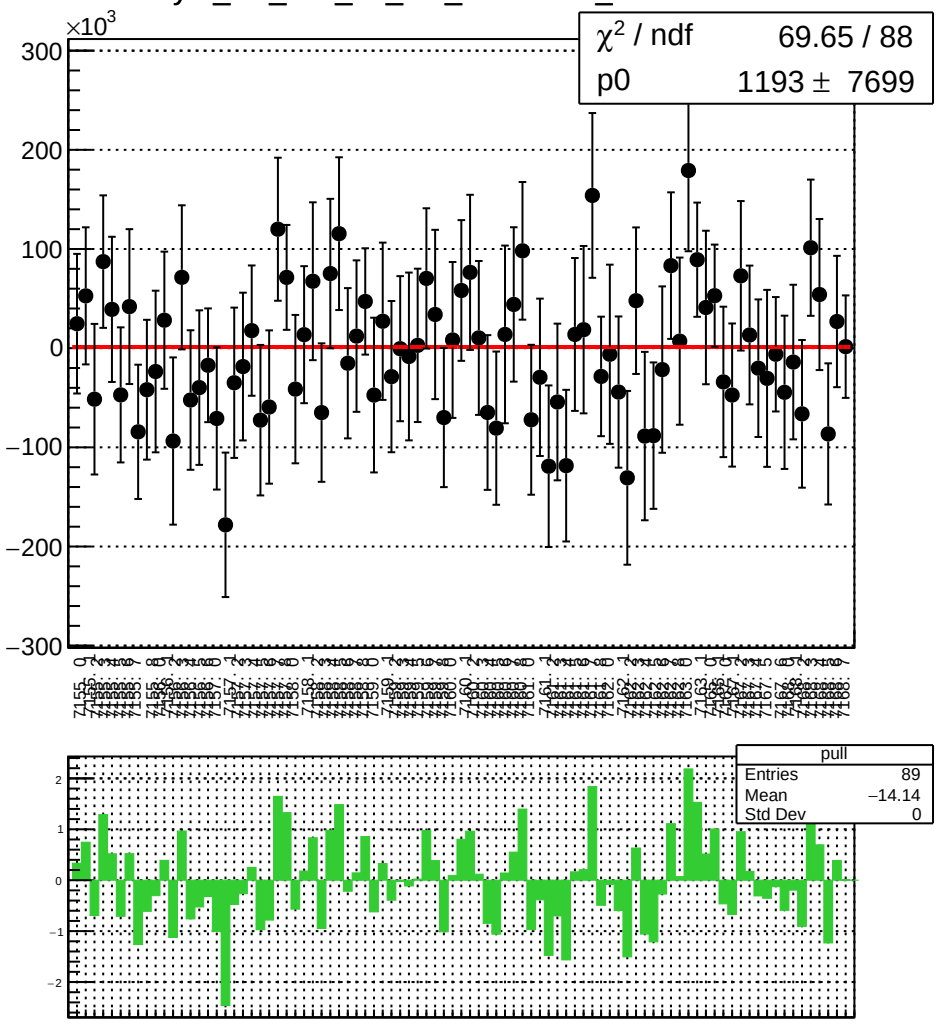

pull1D
Entries 89
Mean −0.0232
Std Dev 0.8843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

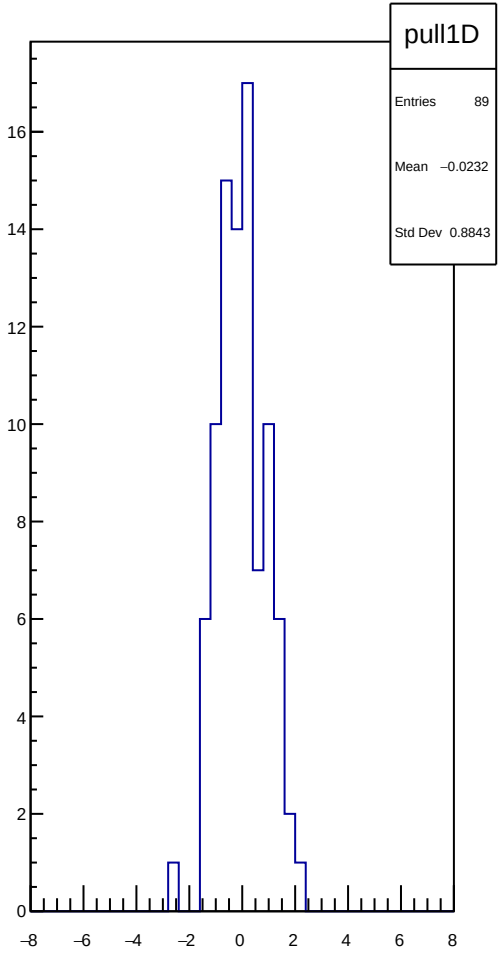

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 8628 / 88
p0 7143 ± 5.444
8500
8000
7500
7000
6500
6000

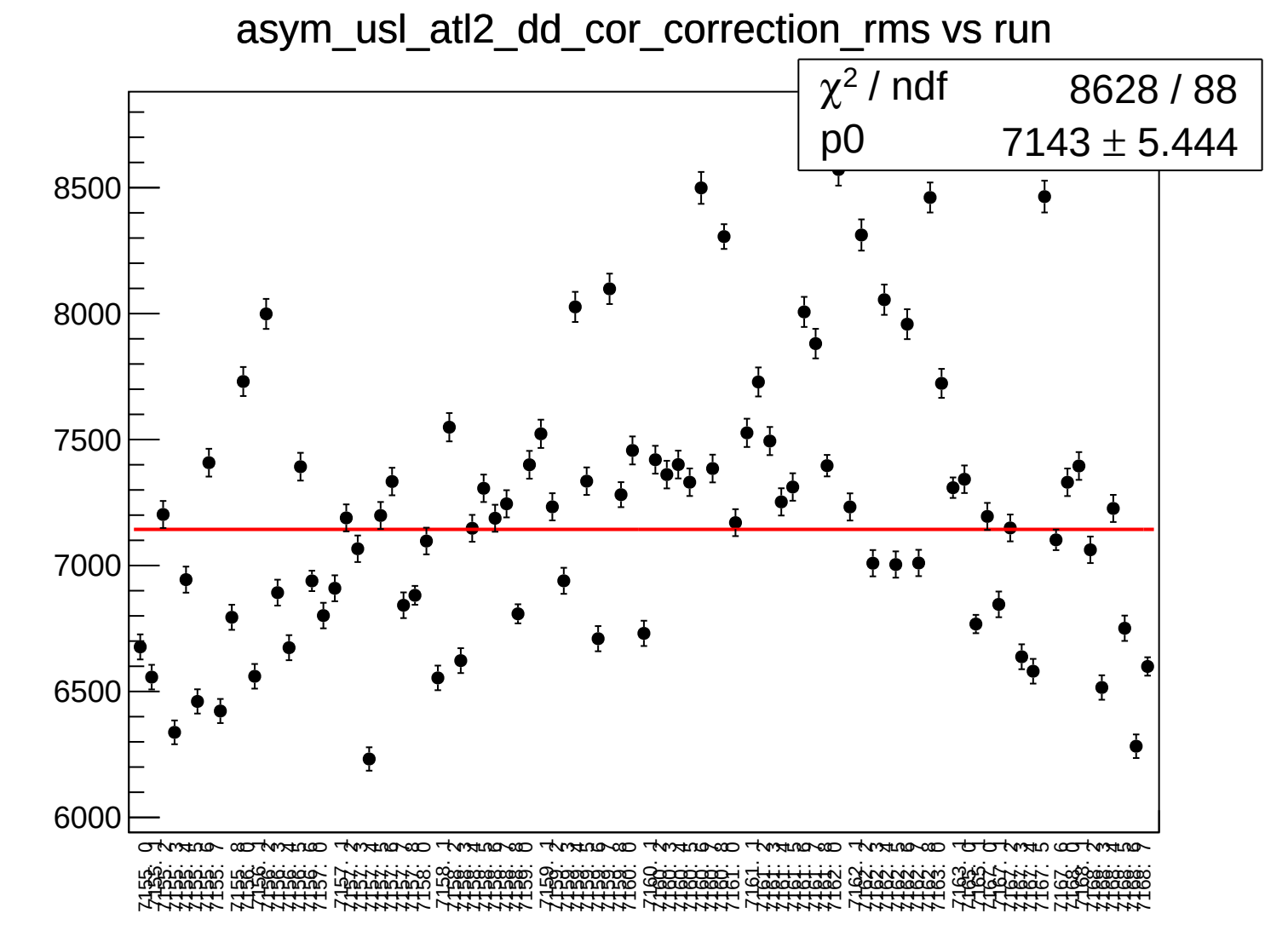

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.42 / 88
p0 −43.93 ± 1231
pull
Entries 89
Mean 144.7
Std Dev 0

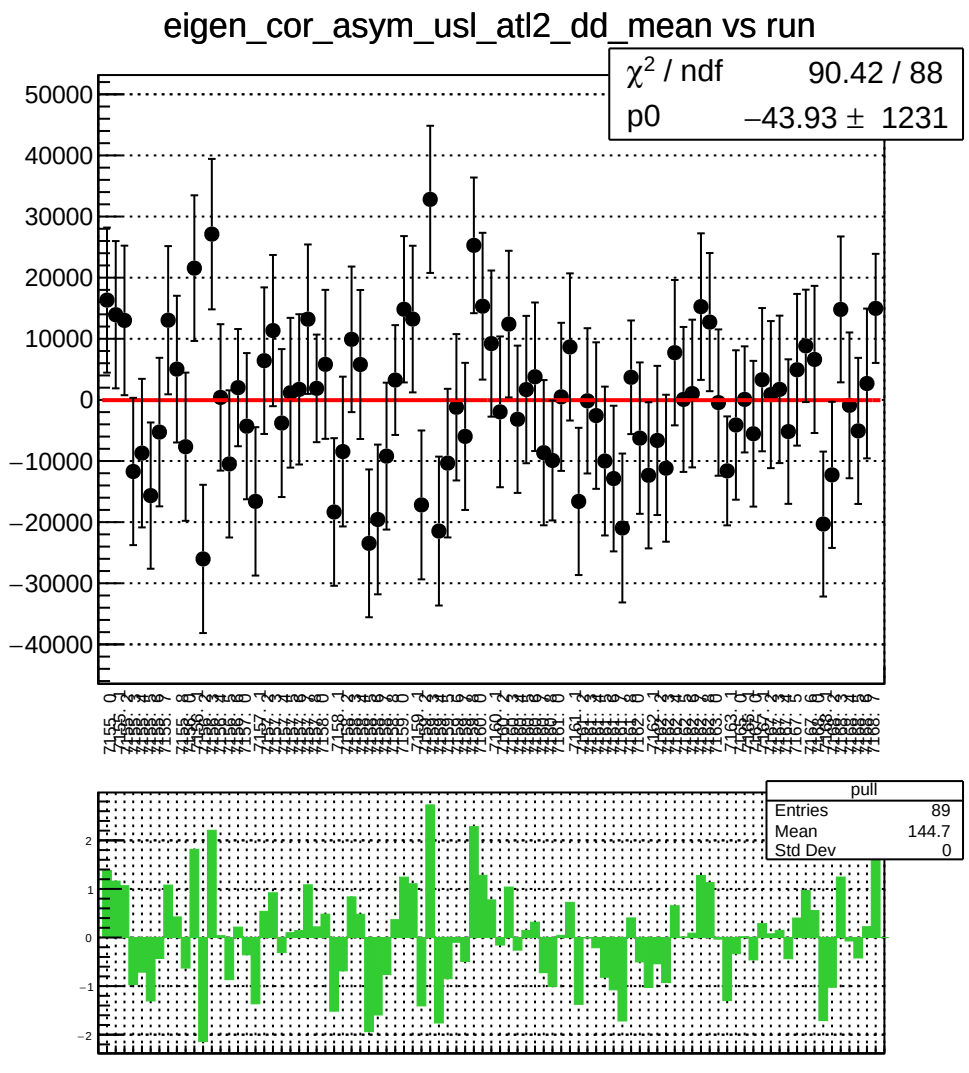

pull1D
Entries 89
Mean −0.01035
Std Dev 1.008

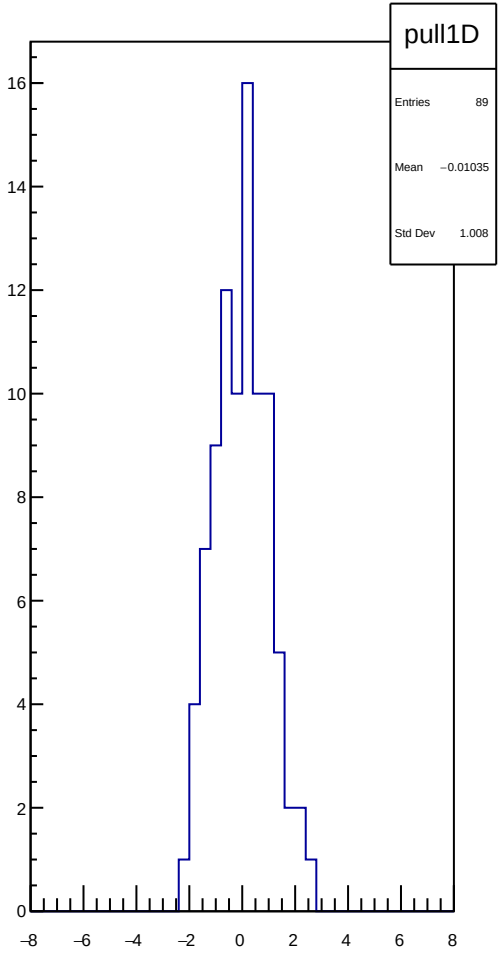

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 227.1 / 88
p0 1145 ± 0.8702
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

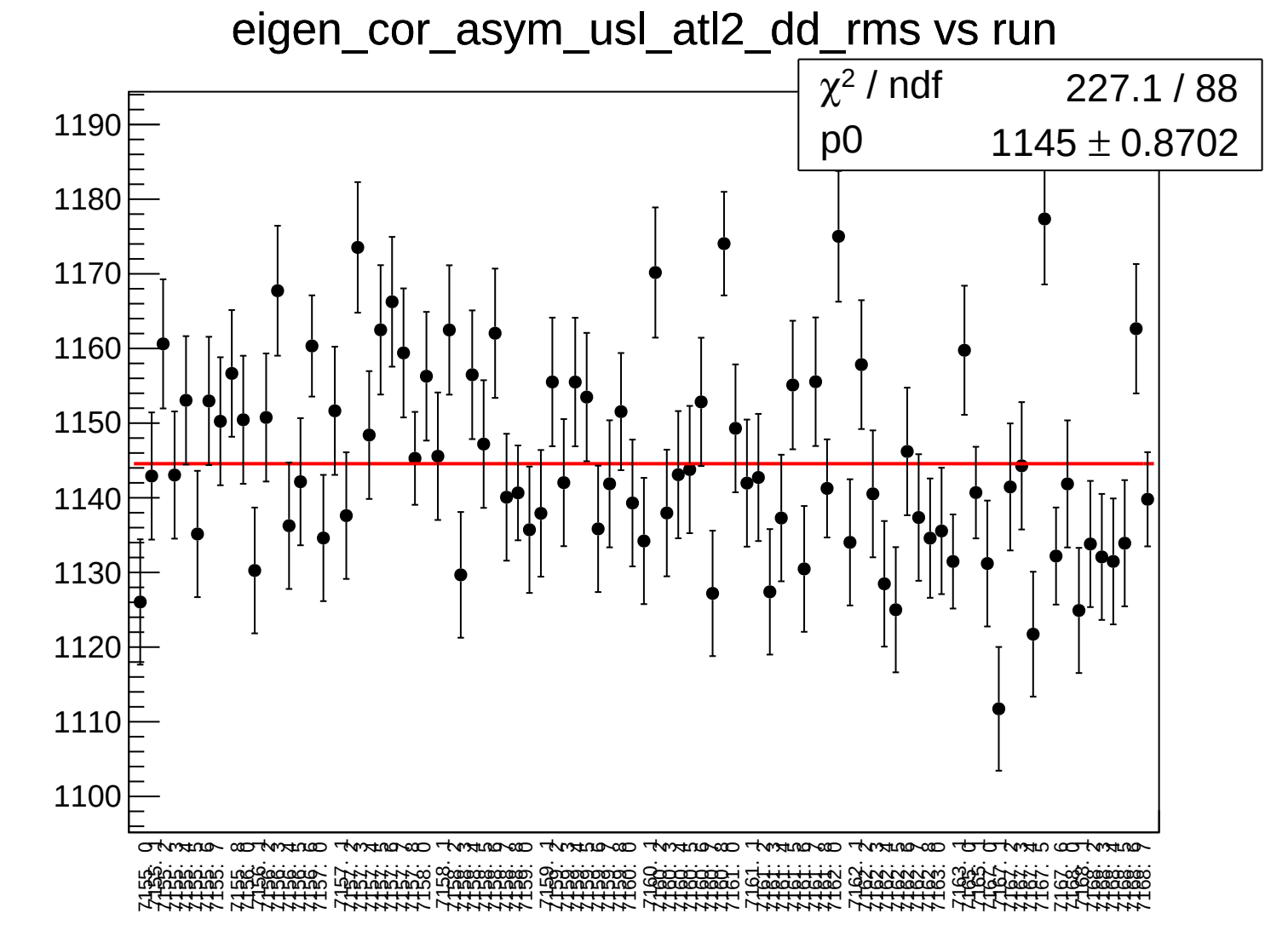

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.65 / 88
p0 1193 ± 7699
pull
Entries 89
Mean −14.14
Std Dev 0

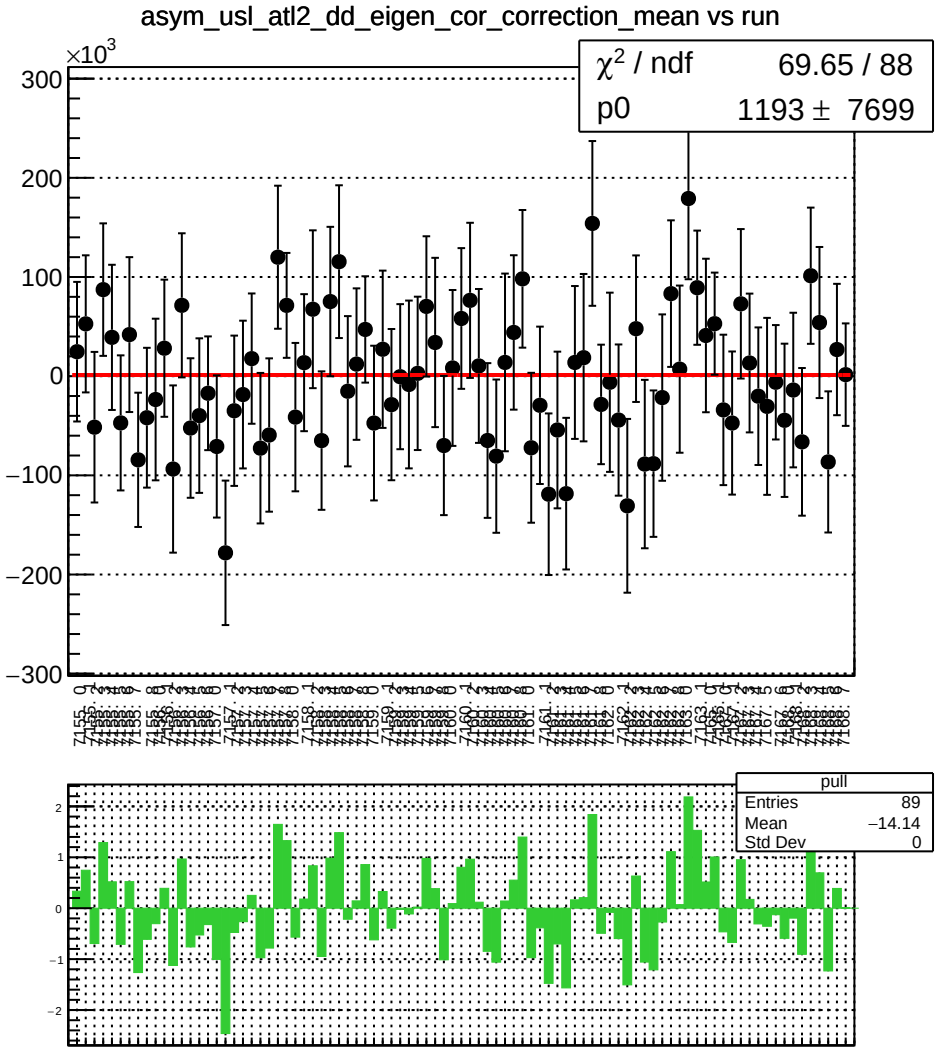

pull1D
Entries 89
Mean −0.0232
Std Dev 0.8843

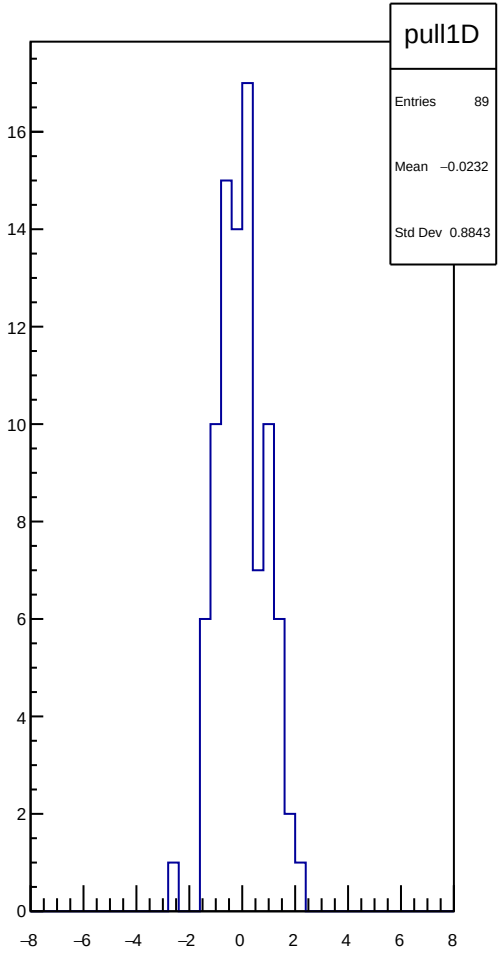

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 8628 / 88
p0 7143 ± 5.444
8500
8000
7500
7000
6500
6000

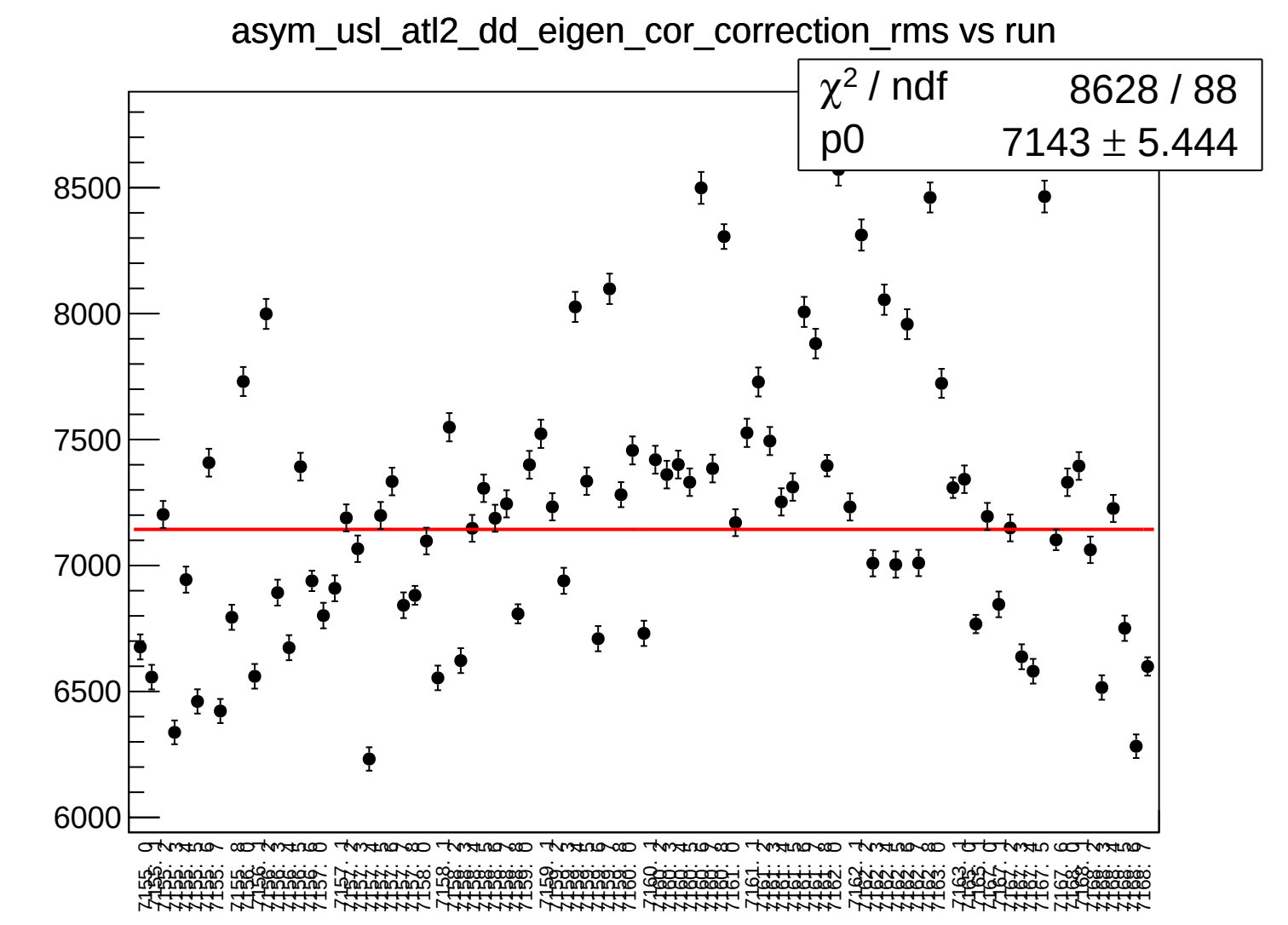

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.42 / 88
p0 −43.93 ± 1231
pull
Entries 89
Mean 144.7
Std Dev 0

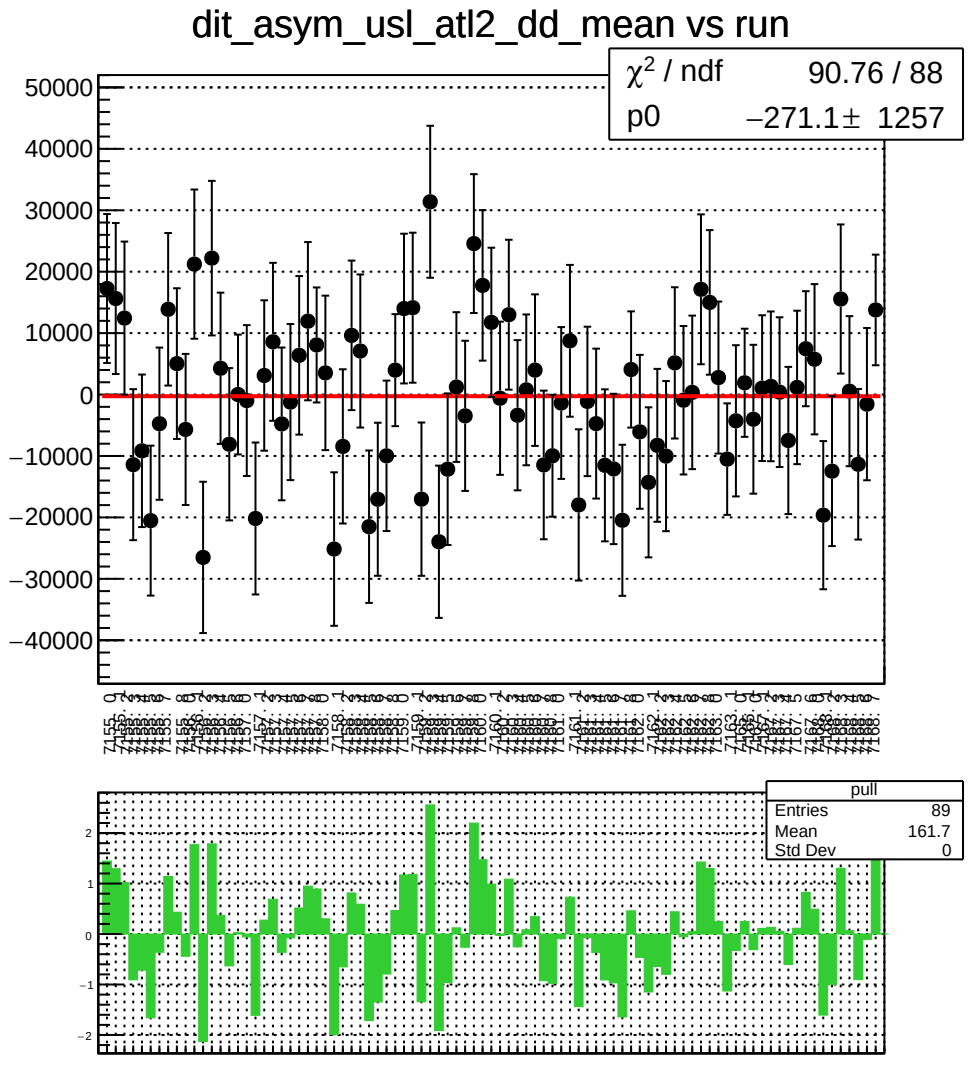

pull1D
Entries 89
Mean −0.01035
Std Dev 1.008

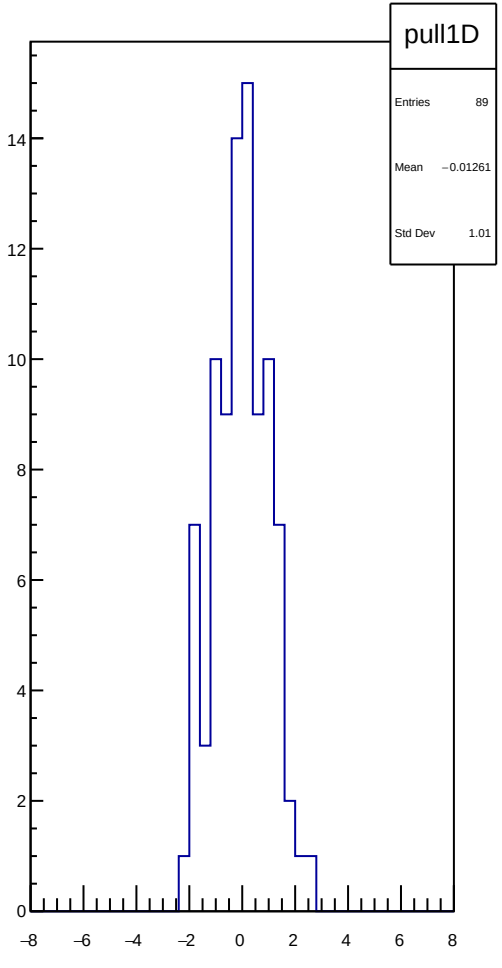

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 227.1 / 88
p0 1145 ± 0.8702
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100

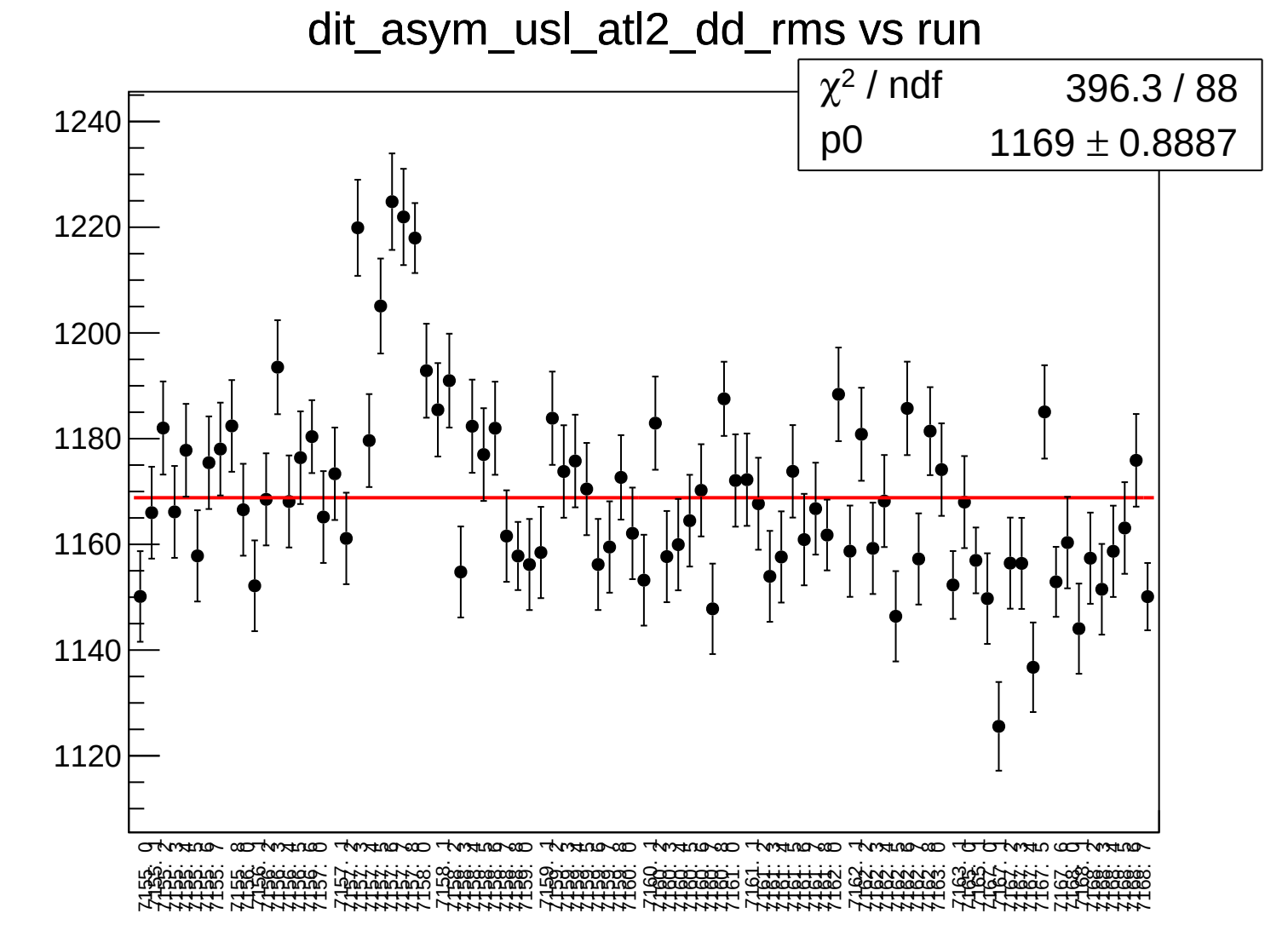

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.65 / 88
p0 1193 ± 7699
pull
Entries 89
Mean −14.14
Std Dev 0

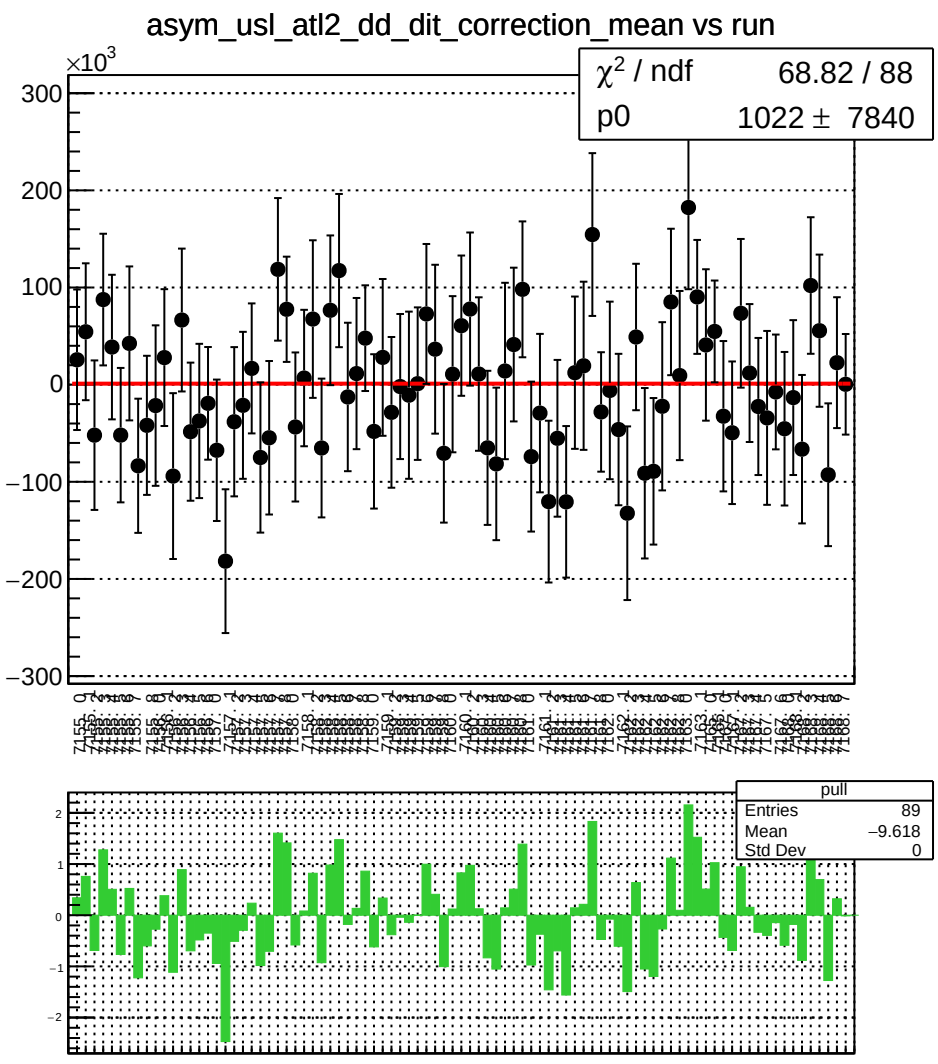

pull1D
Entries 89
Mean −0.0232
Std Dev 0.8843

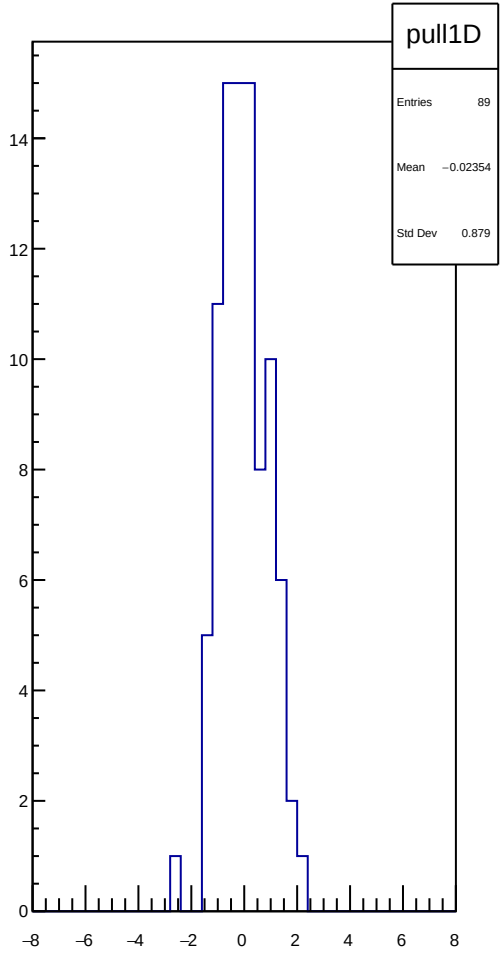

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8628 / 88
p0 7143 ± 5.444
8500
8000
7500
7000
6500
6000

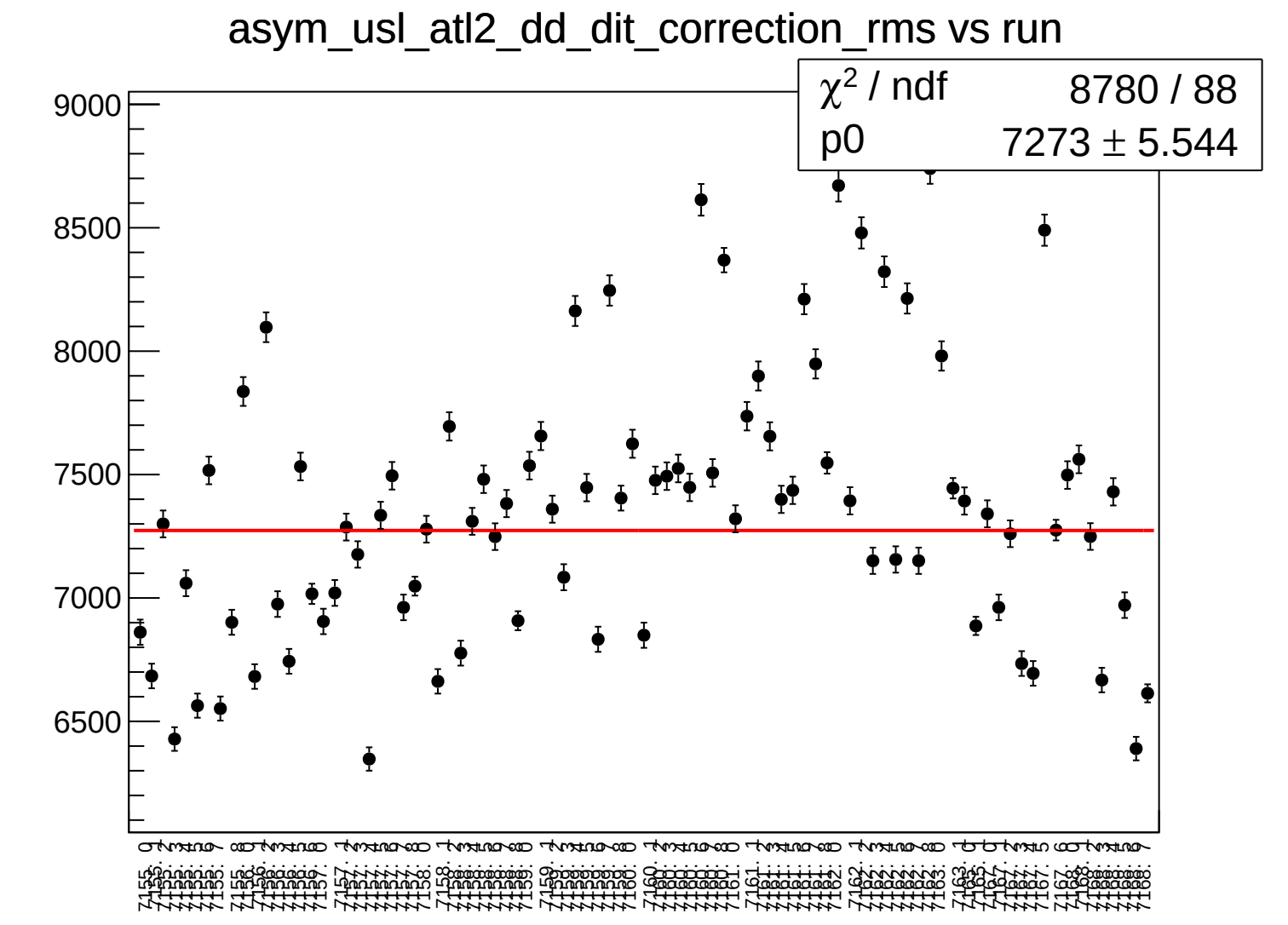

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.76 / 88
p0 −271.1± 1257
pull
Entries 89
Mean 161.7
Std Dev 0

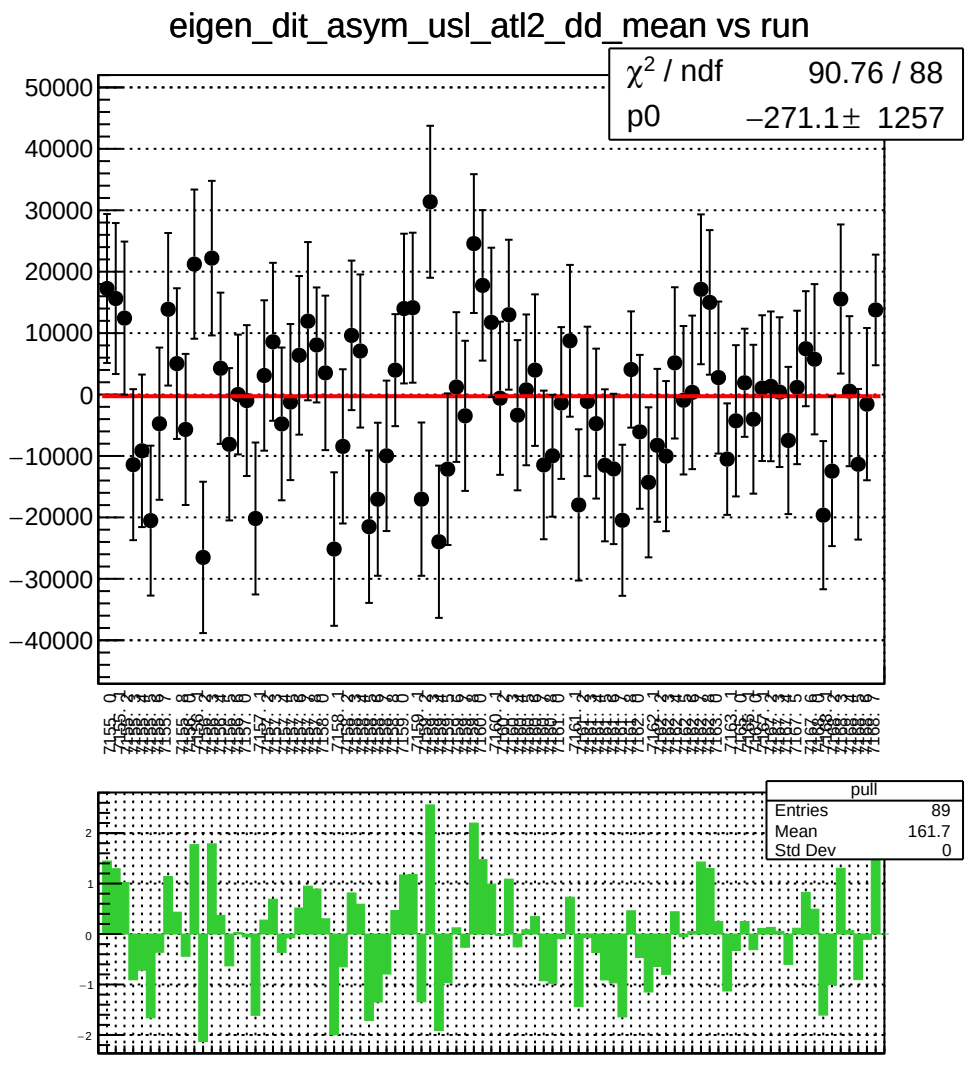

pull1D
Entries 89
Mean −0.01261
Std Dev 1.01

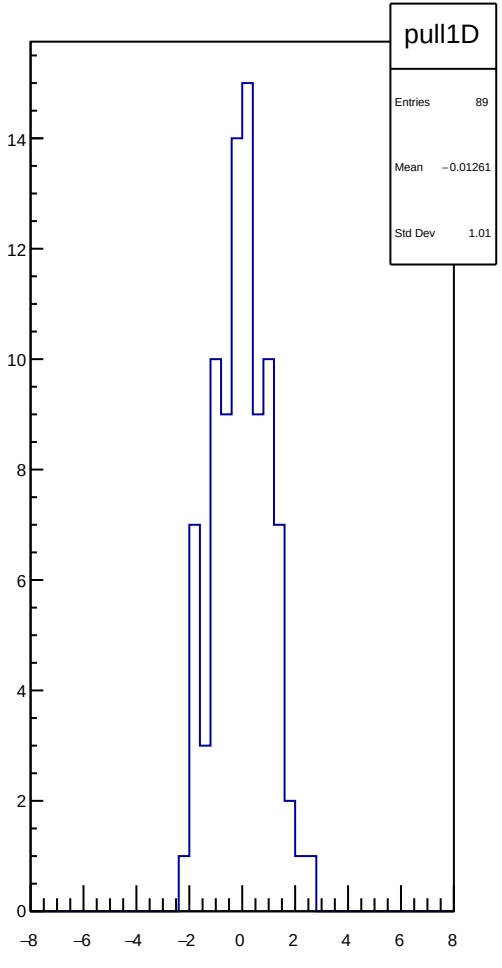

dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 396.3 / 88
p0 1169 ± 0.8887
1240
1220
1200
1180
1160
1140
1120

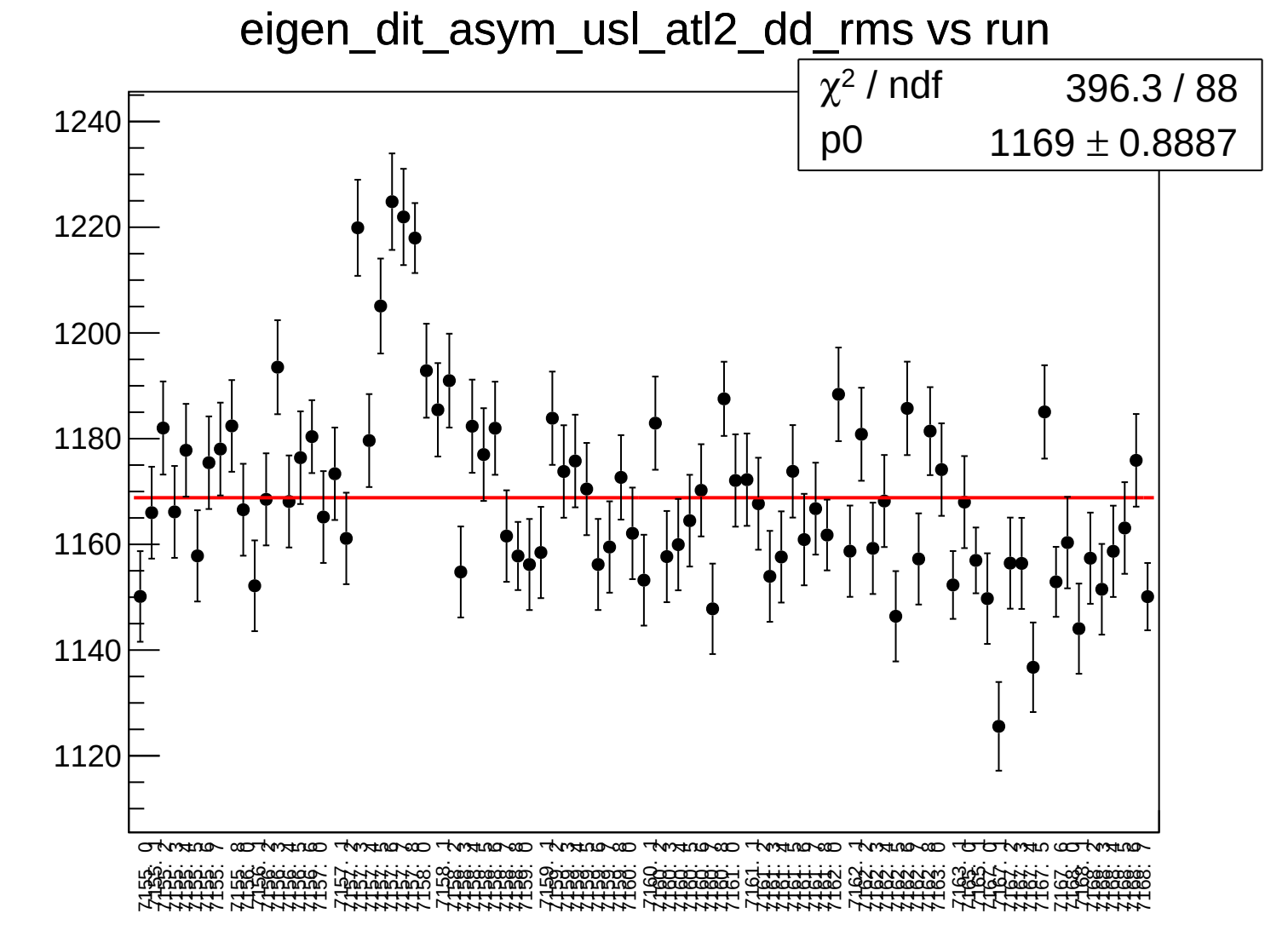

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 1022 ± 7840
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −9.618
Std Dev 0
2
1
0
−1
−2

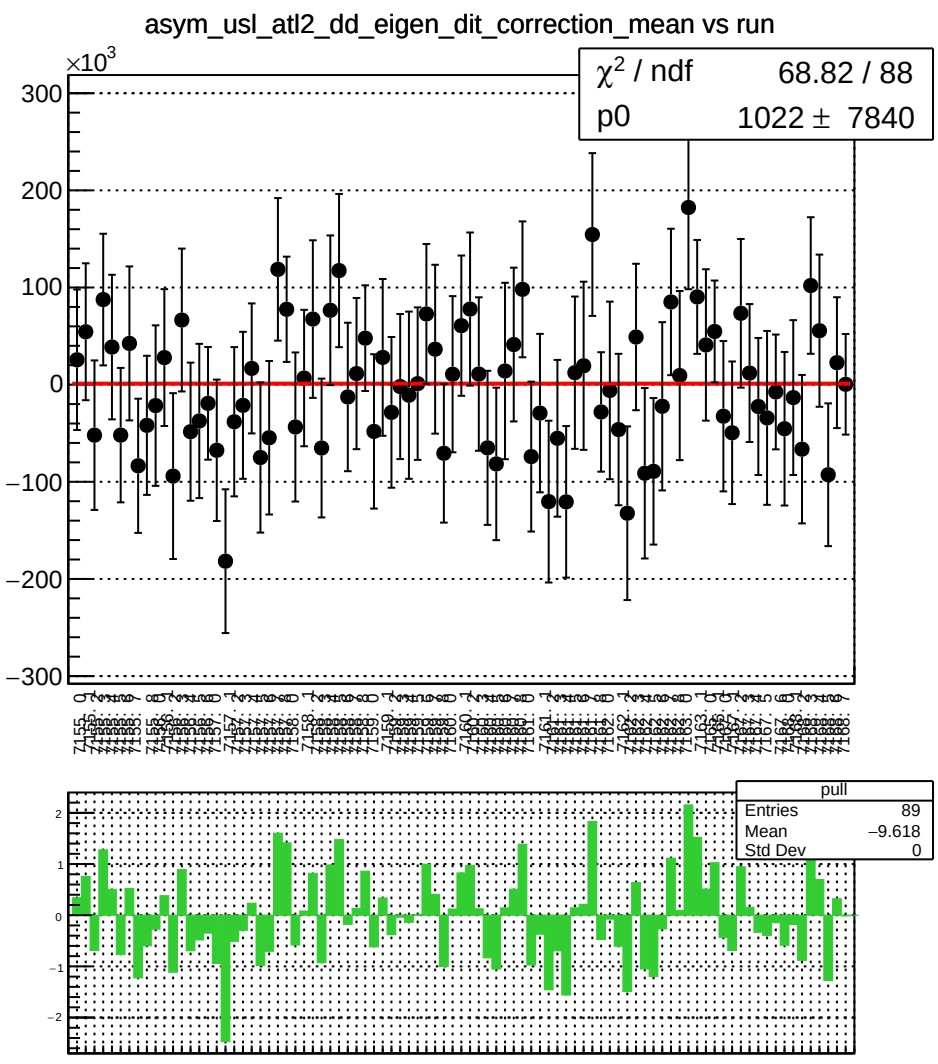

pull1D
Entries 89
Mean −0.02354
Std Dev 0.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

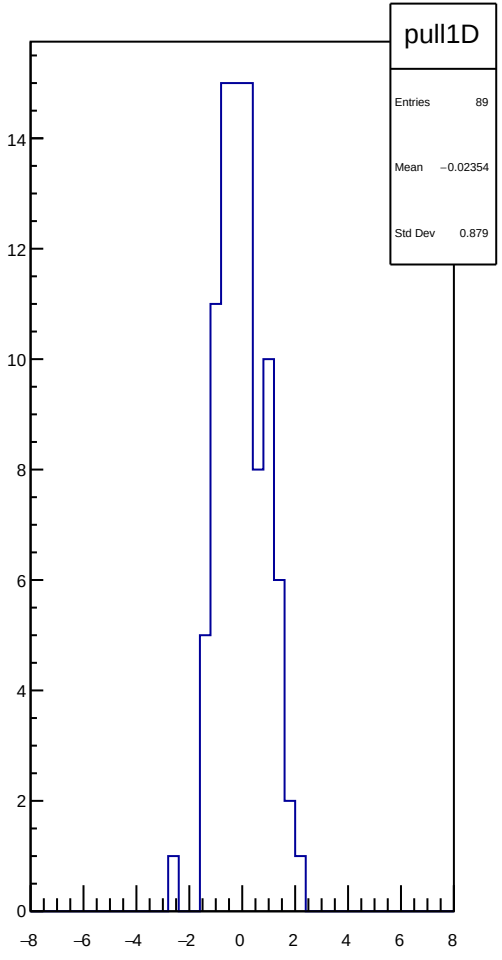

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 8780 / 88
p0 7273 ± 5.544
9000
8500
8000
7500
7000
6500

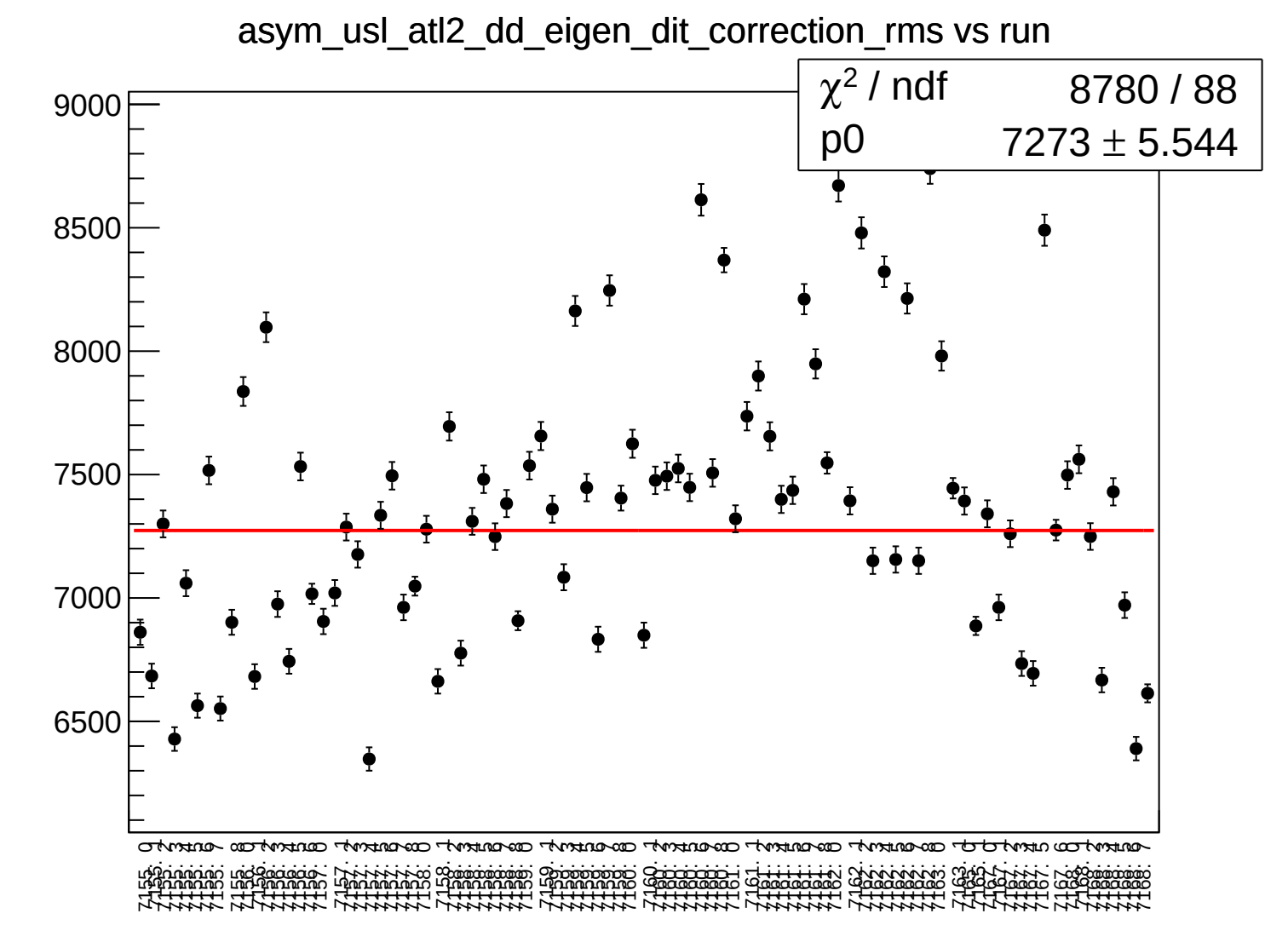

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 90.76 / 88
p0 −271.1± 1257
pull
Entries 89
Mean 161.7
Std Dev 0

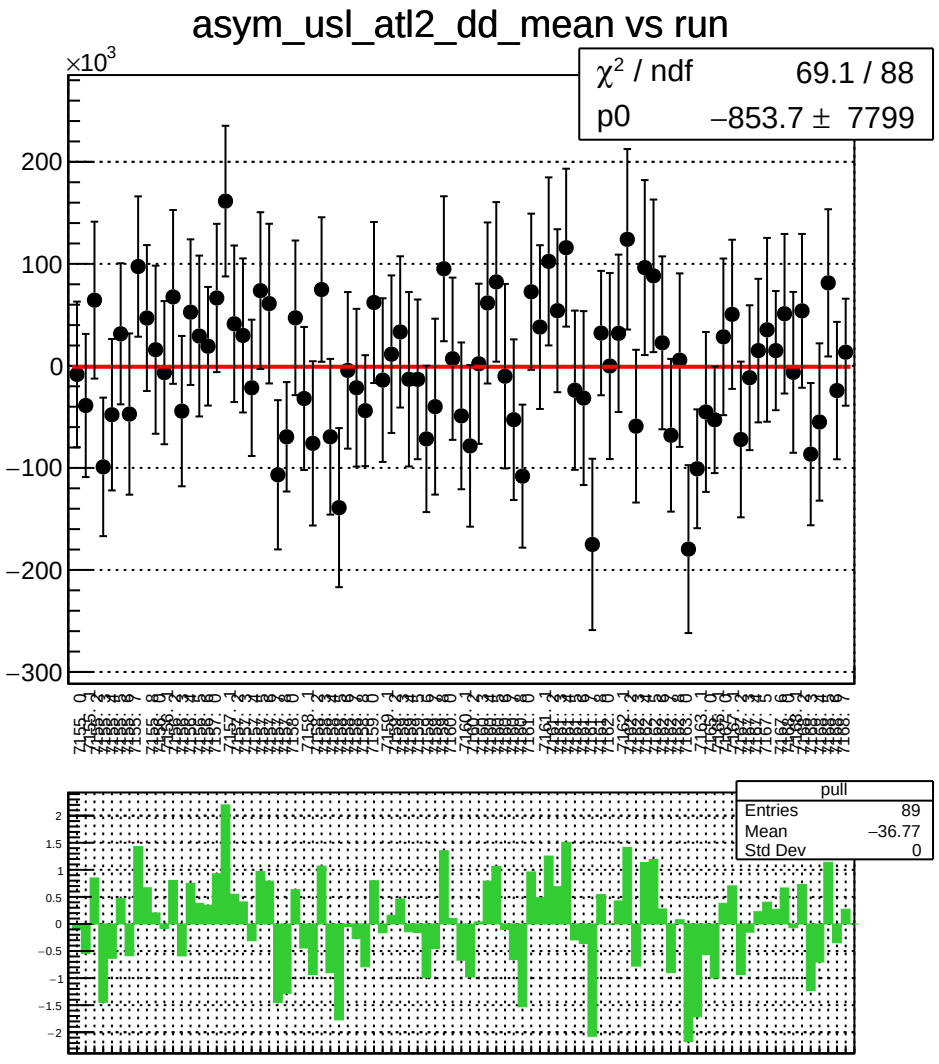

pull1D
Entries 89
Mean −0.01261
Std Dev 1.01

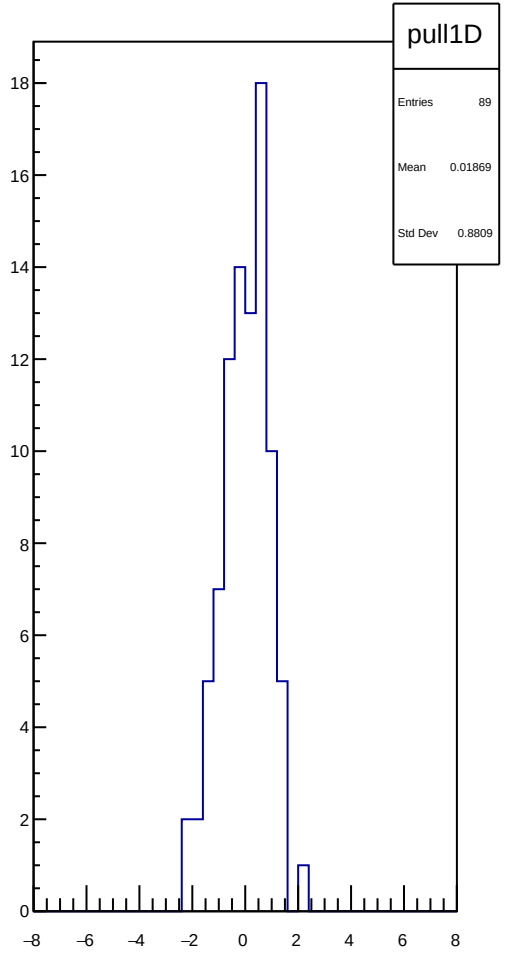

eigen_dit_asym_usl_atl2_dd_rms vs run
χ^2 / ndf 396.3 / 88
p0 1169 ± 0.8887
1240
1220
1200
1180
1160
1140
1120

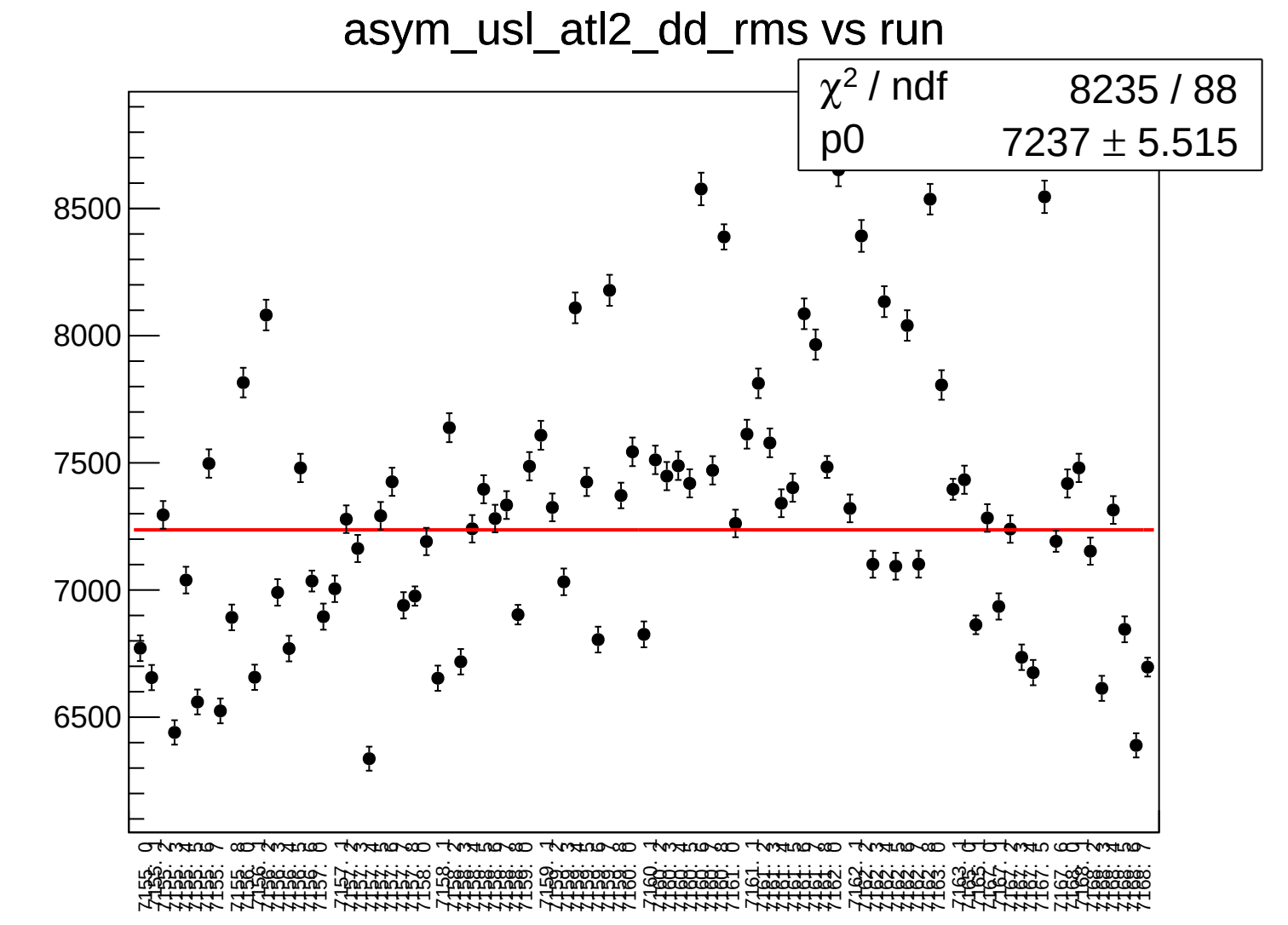

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 68.82 / 88
p0 1022 ± 7840
pull
Entries 89
Mean −9.618
Std Dev 0

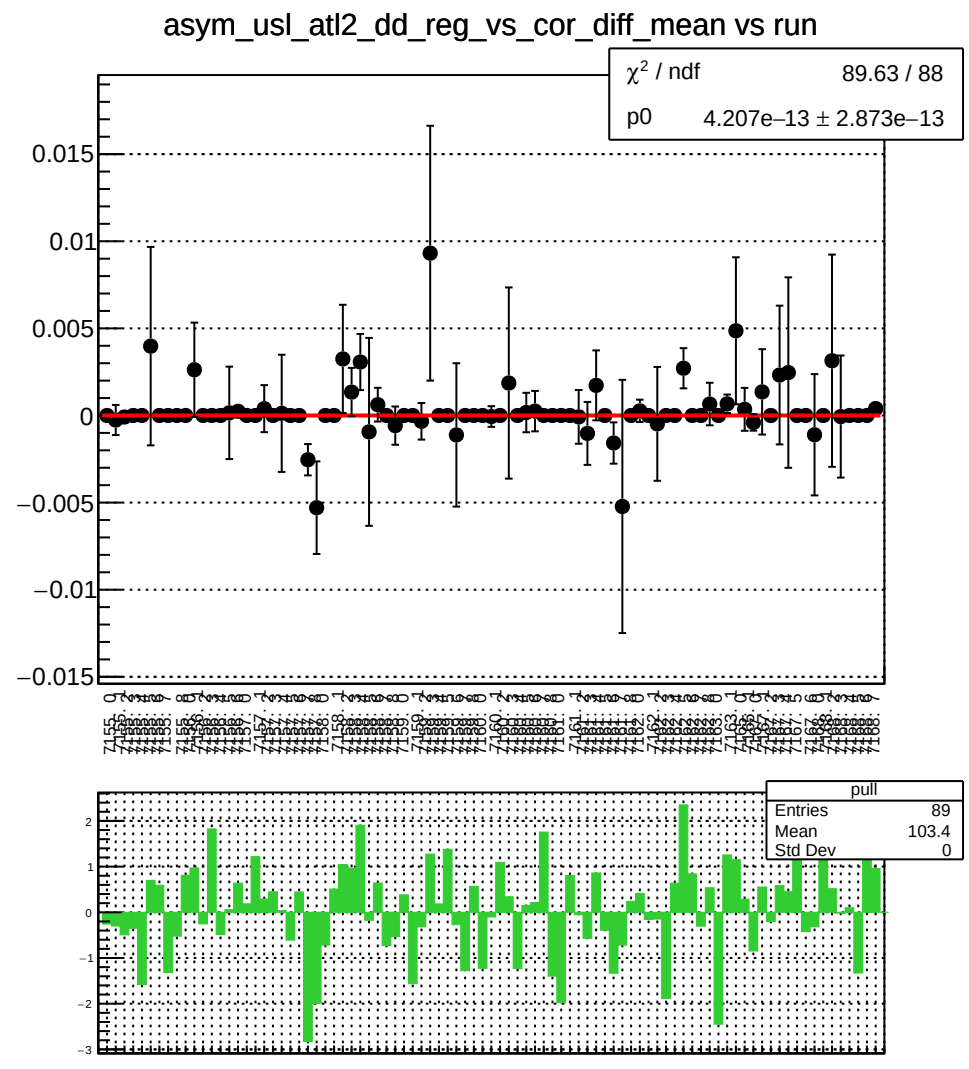

pull1D
Entries 89
Mean −0.02354
Std Dev 0.879

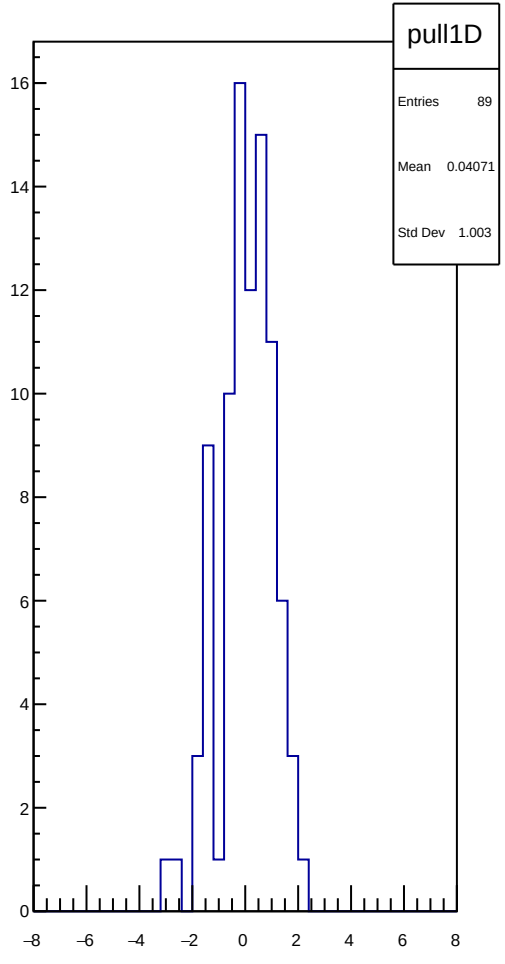

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8780 / 88
p0 7273 ± 5.544
9000
8500
8000
7500
7000
6500

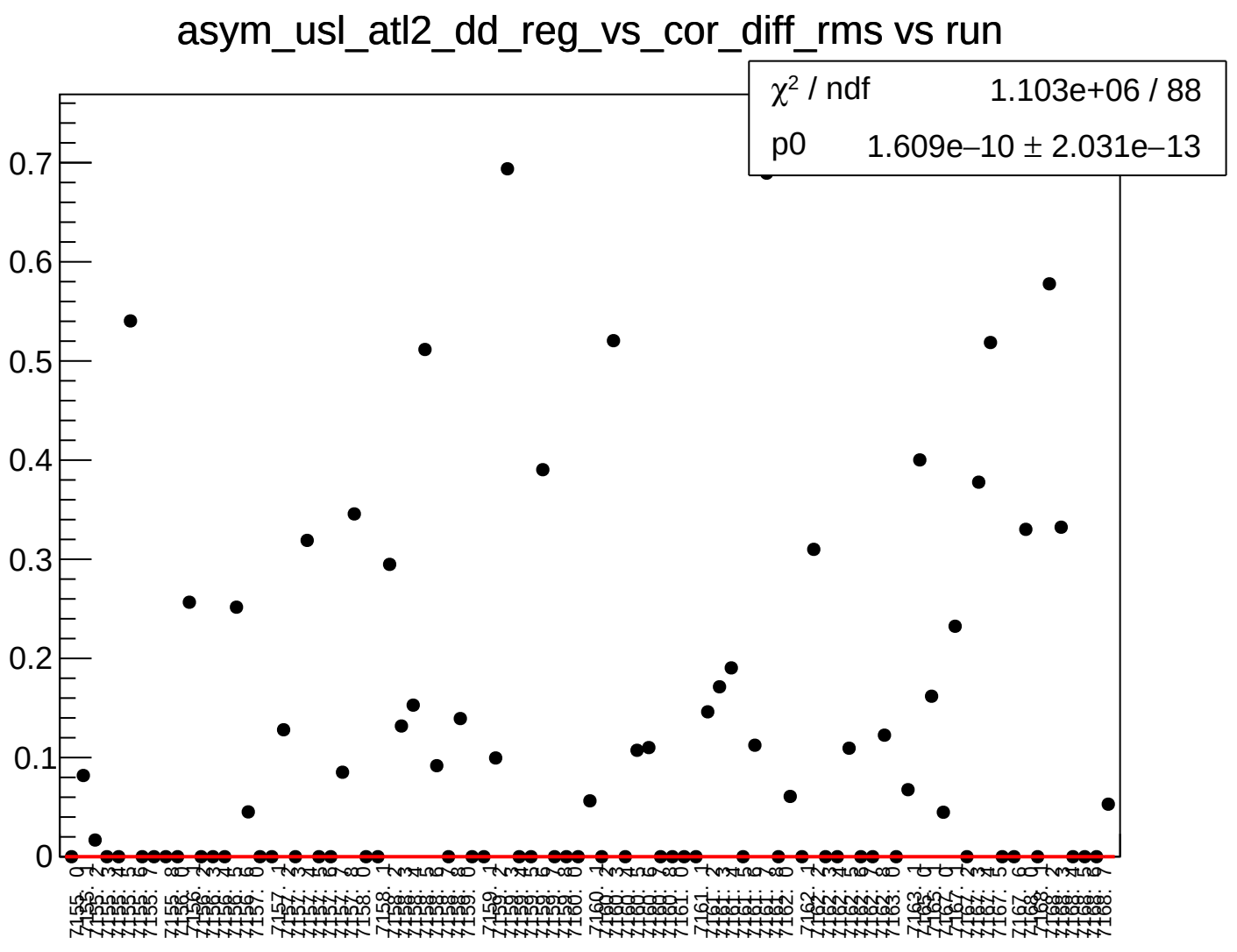

asym_usl_atl2_dd_mean vs run
×10^3
χ² / ndf 69.1 / 88
p0 −853.7 ± 7799
200
100
0
−100
−200
−300
pull
Entries 89
Mean −36.77
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

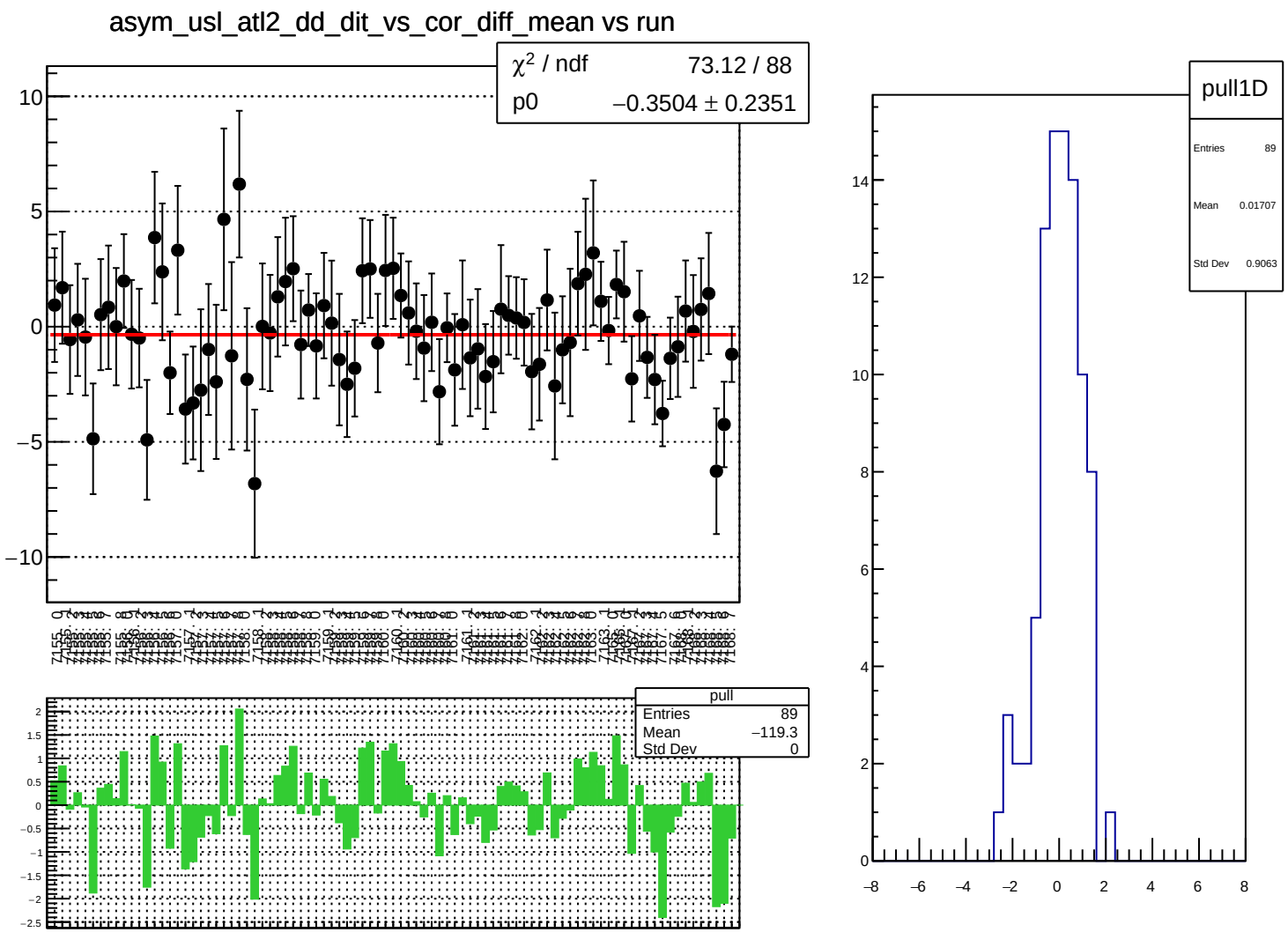

pull1D
Entries 89
Mean 0.01869
Std Dev 0.8809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

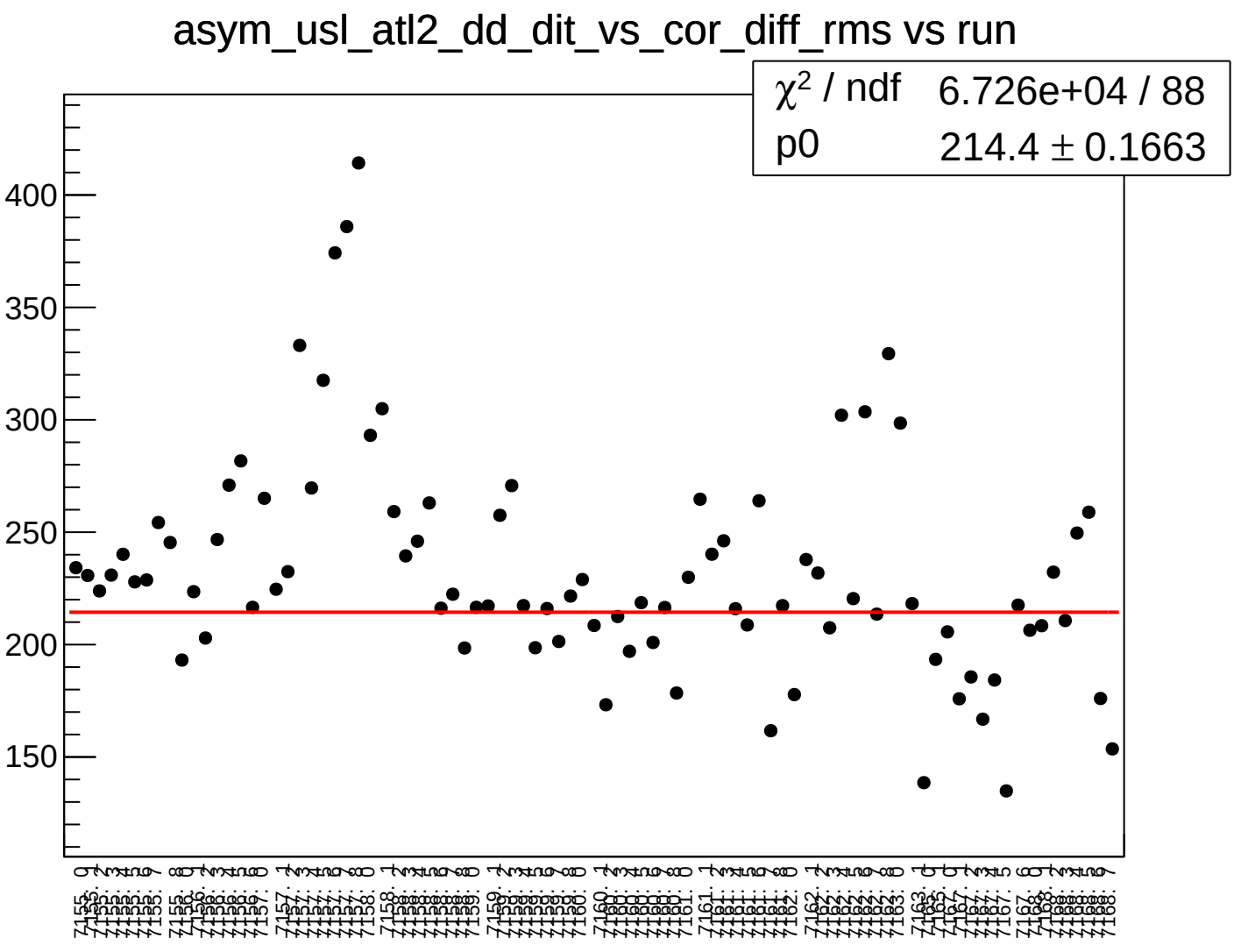

asym_usl_atl2_dd_rms vs run
χ² / ndf 8235 / 88
p0 7237 ± 5.515
8500
8000
7500
7000
6500

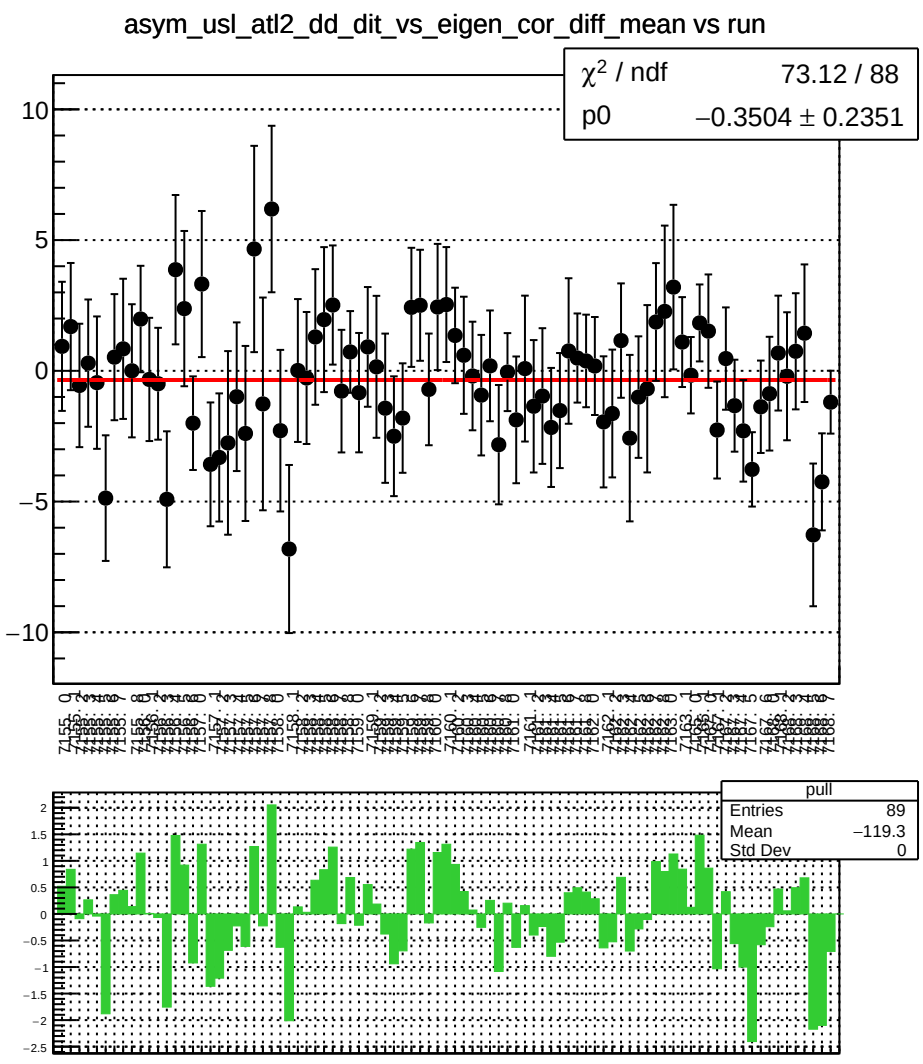

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.63 / 88
p0 4.207e−13 ± 2.873e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 89
Mean 103.4
Std Dev 0
2
1
0
−1
−2
−3

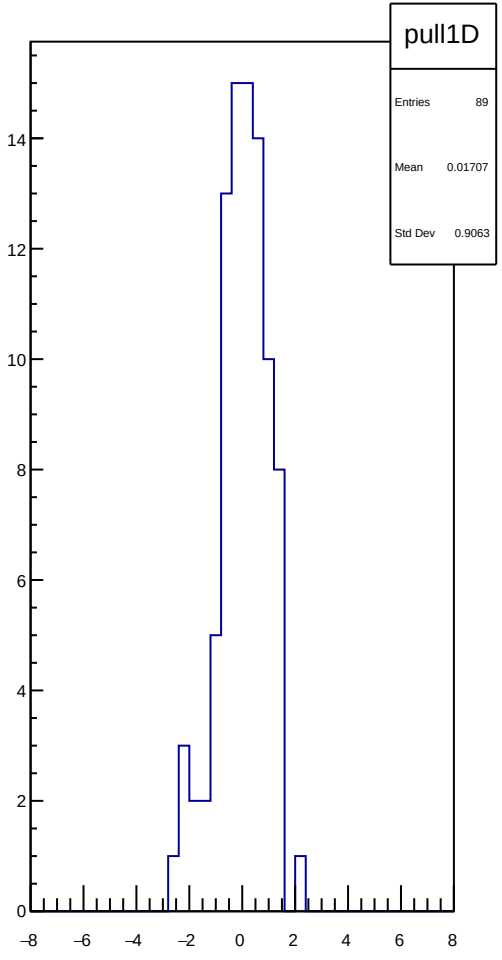

pull1D
Entries 89
Mean 0.04071
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

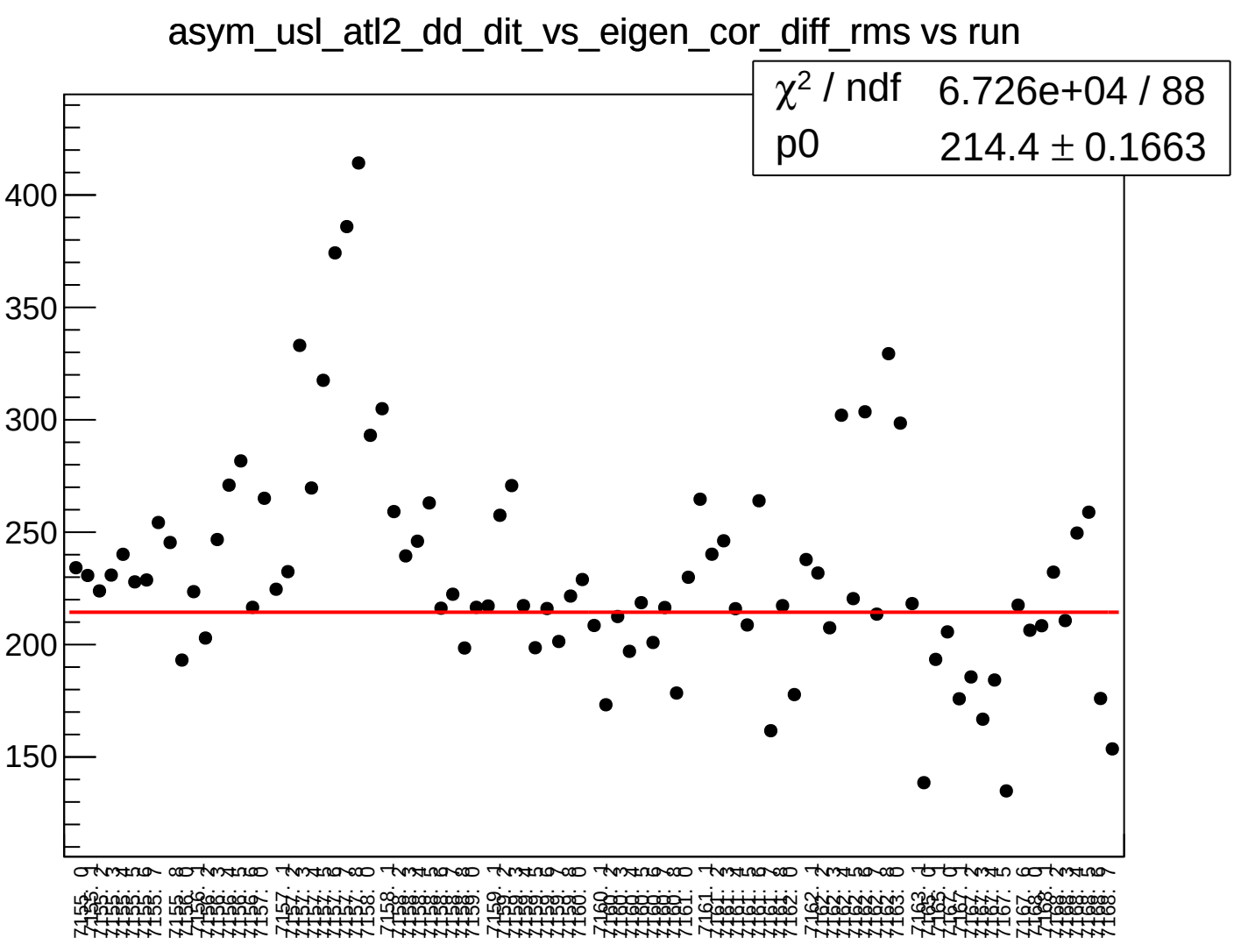

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.103e+06 / 88
p0 1.609e−10 ± 2.031e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

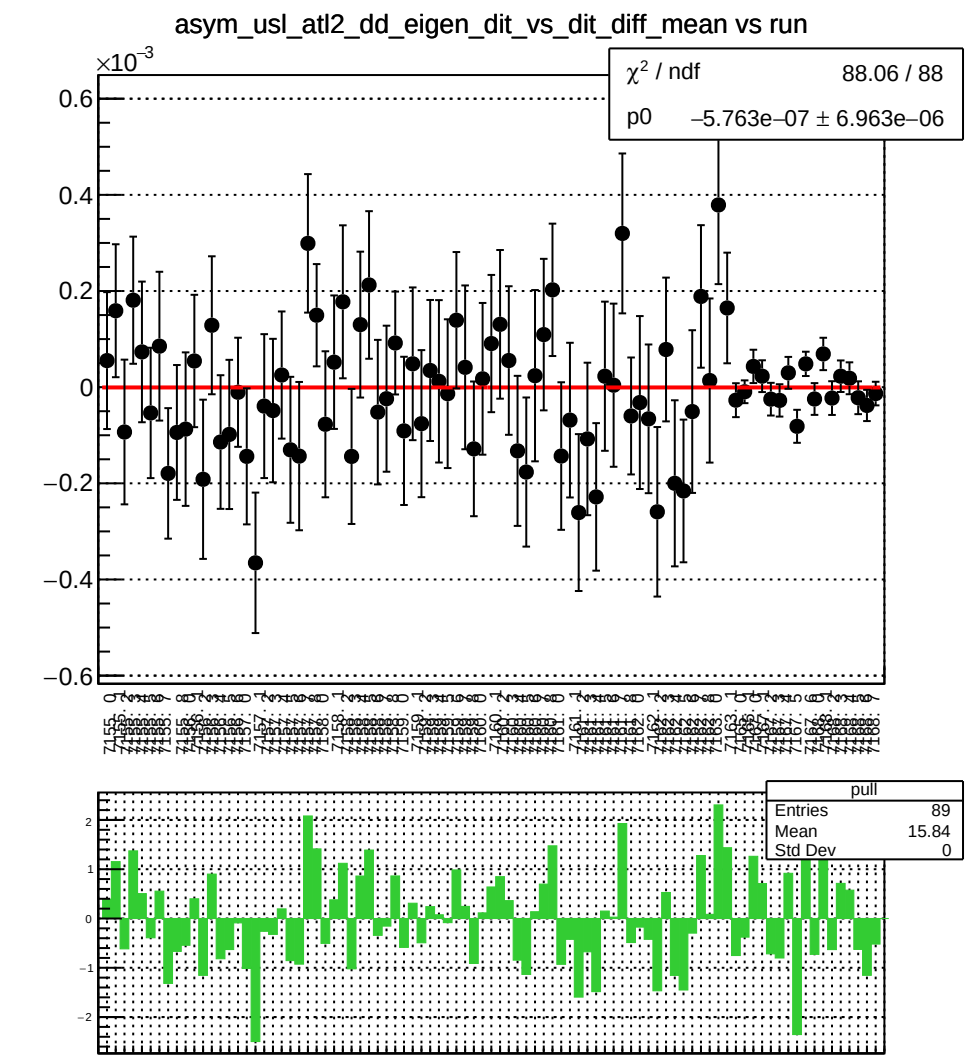

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.12 / 88
p0 −0.3504 ± 0.2351
pull
Entries 89
Mean −119.3
Std Dev 0
pull1D
Entries 89
Mean 0.01707
Std Dev 0.9063

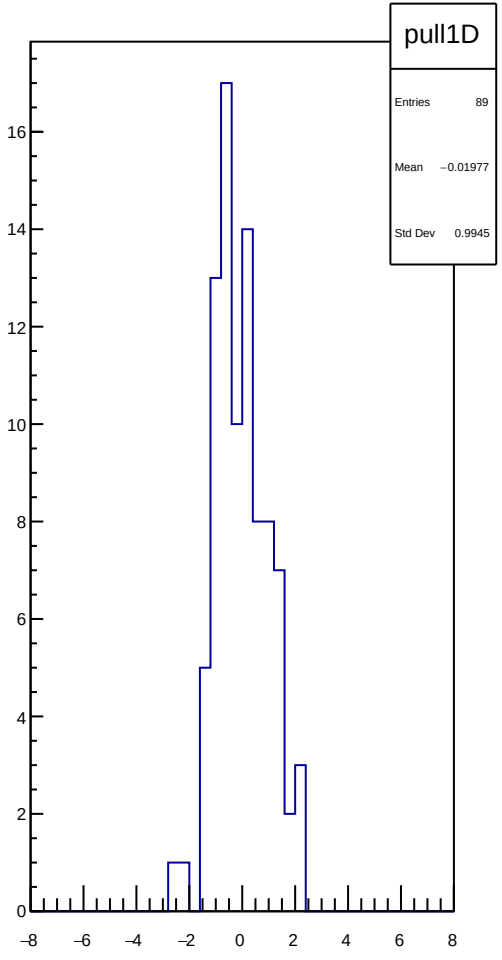

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.726e+04 / 88
p0 214.4 ± 0.1663
400
350
300
250
200
150

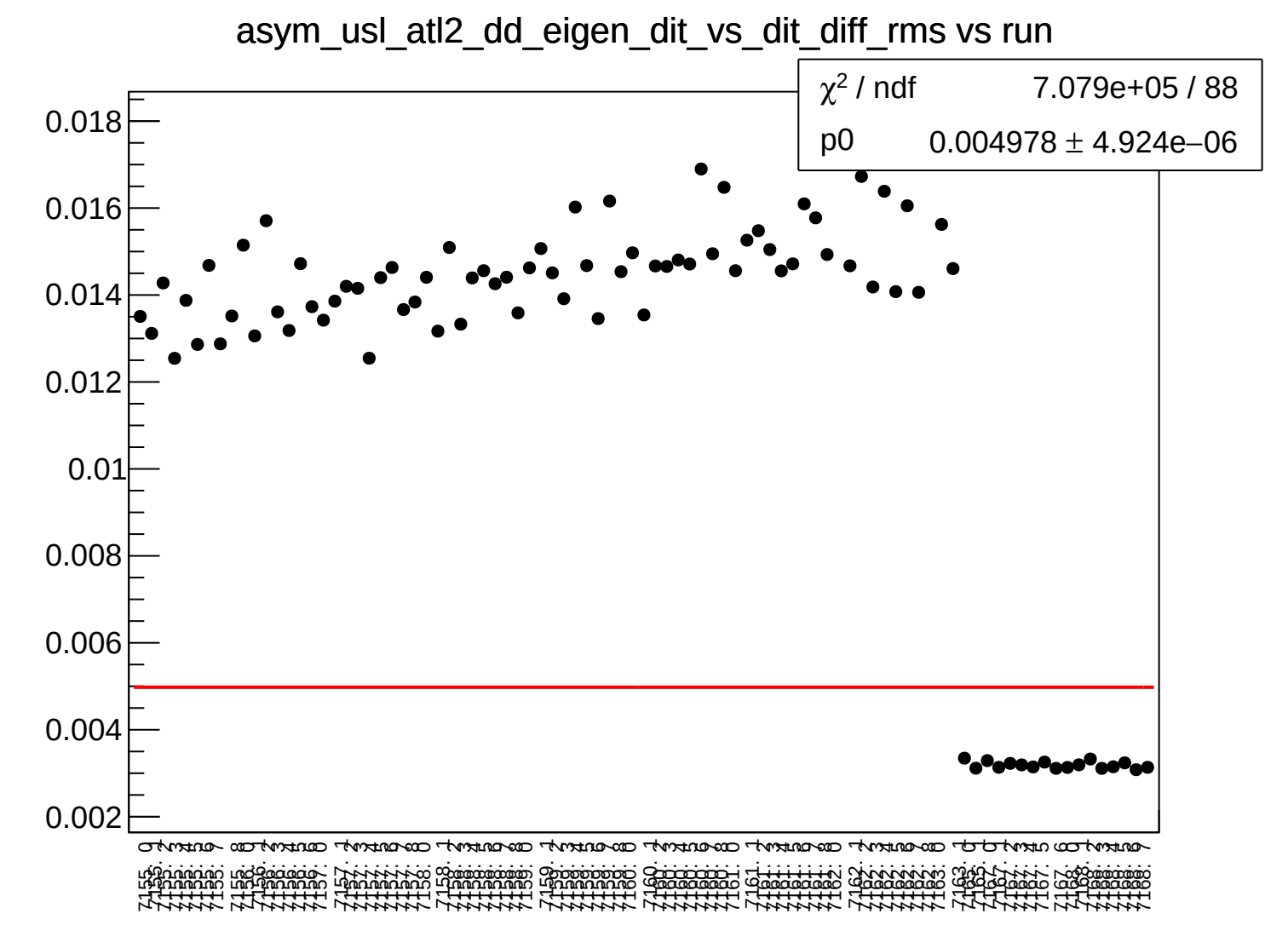

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.12 / 88
p0 −0.3504 ± 0.2351
pull
Entries 89
Mean −119.3
Std Dev 0

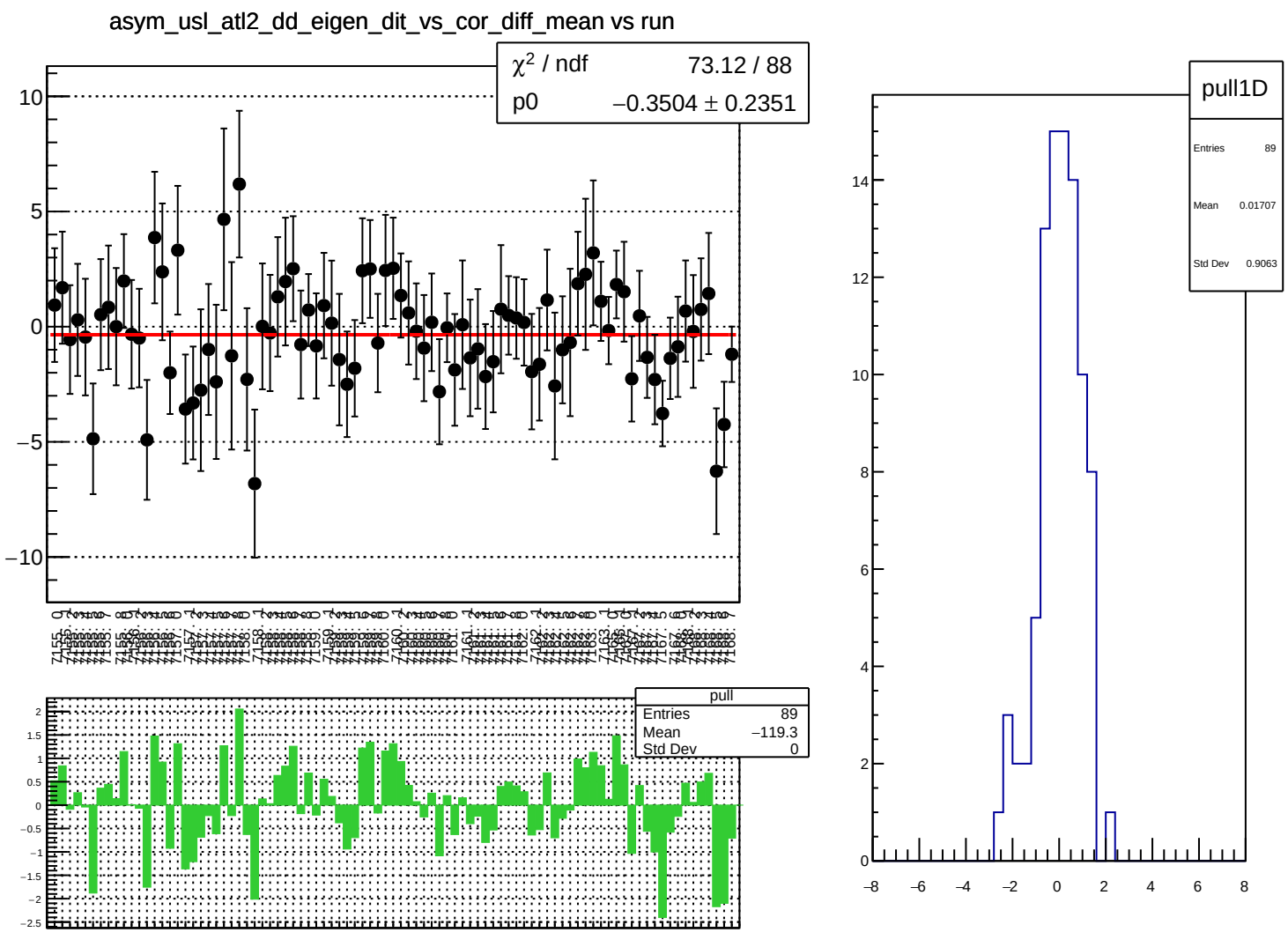

pull1D
Entries 89
Mean 0.01707
Std Dev 0.9063

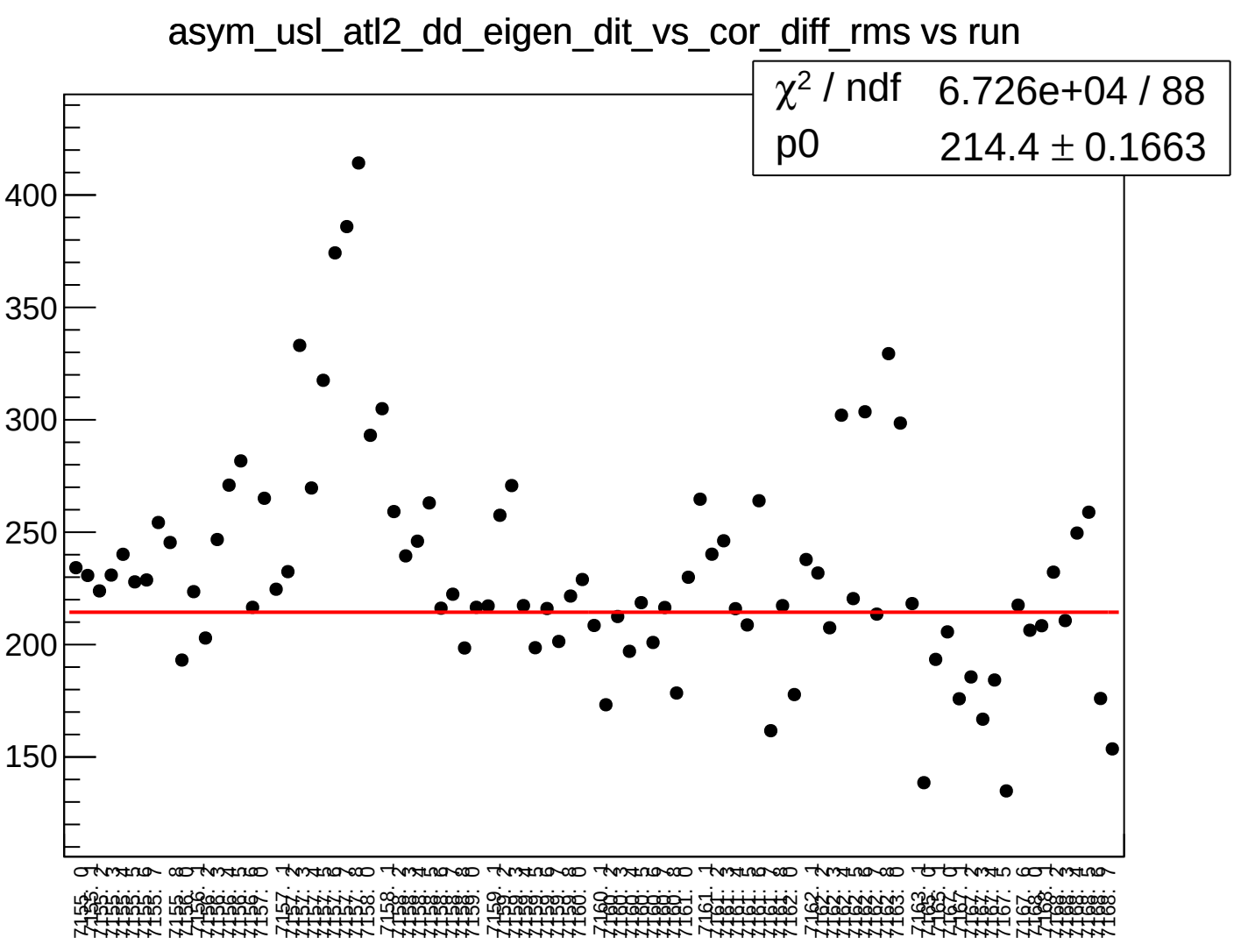

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.726e+04 / 88
p0 214.4 ± 0.1663
400
350
300
250
200
150

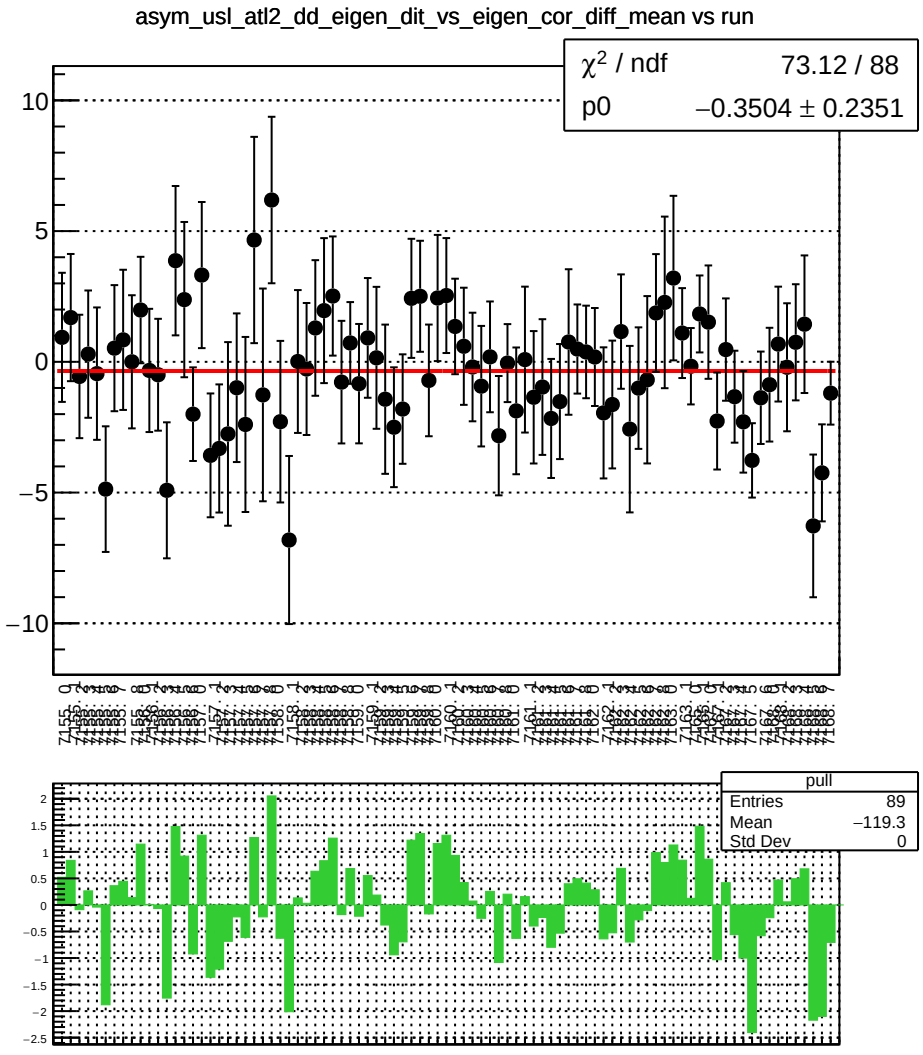

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.06 / 88
p0 −5.763e−07 ± 6.963e−06
pull
Entries 89
Mean 15.84
Std Dev 0

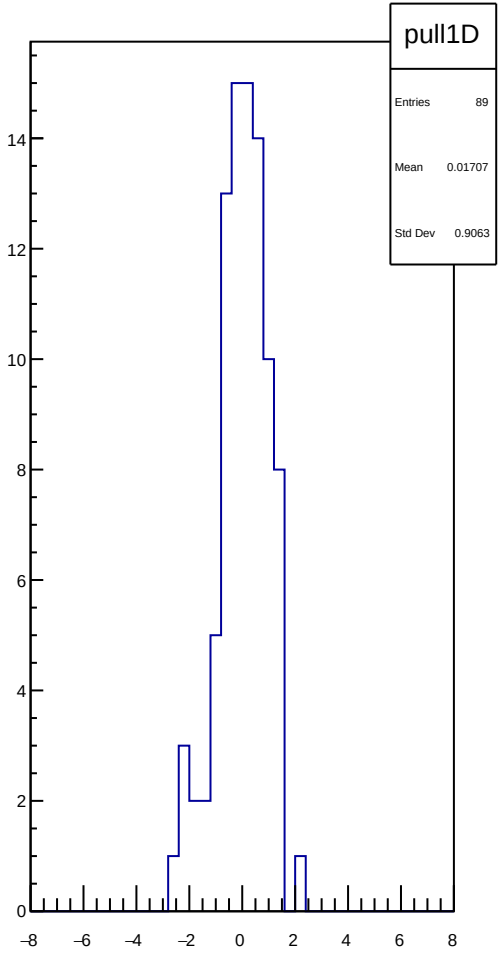

pull1D
Entries 89
Mean −0.01977
Std Dev 0.9945

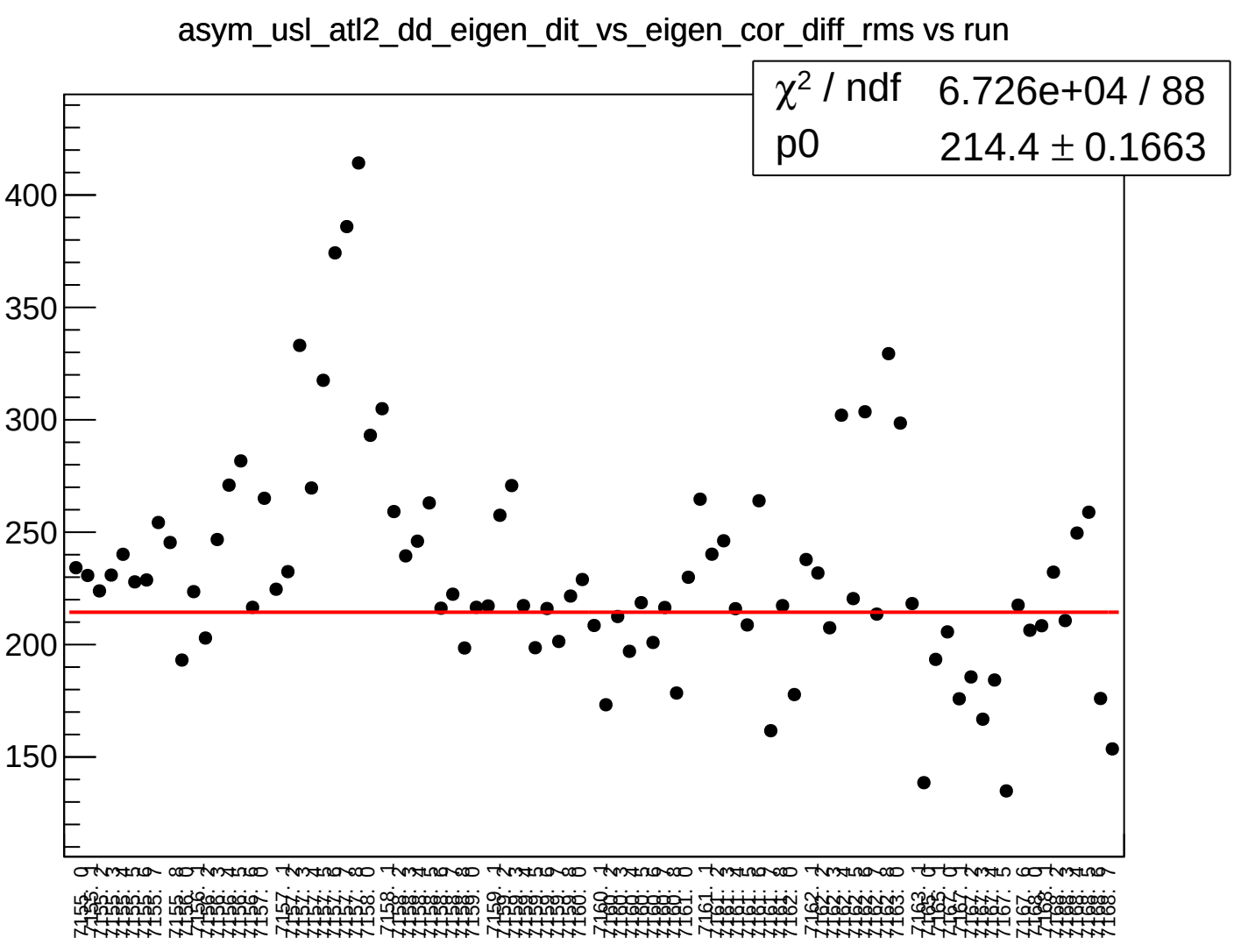

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.079e+05 / 88
p0 0.004978 ± 4.924e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

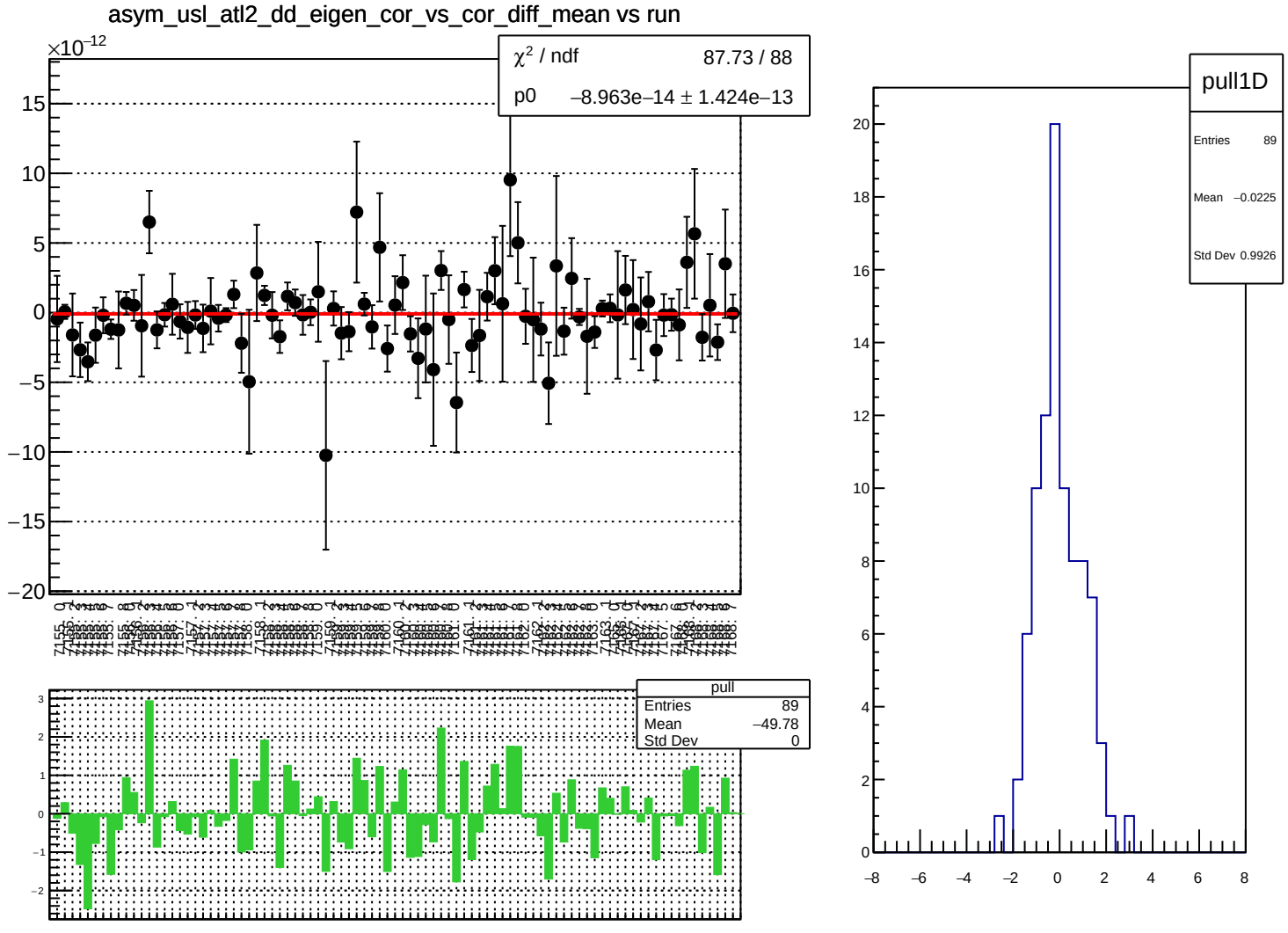

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.12 / 88
p0 −0.3504 ± 0.2351
pull
Entries 89
Mean −119.3
Std Dev 0
pull1D
Entries 89
Mean 0.01707
Std Dev 0.9063

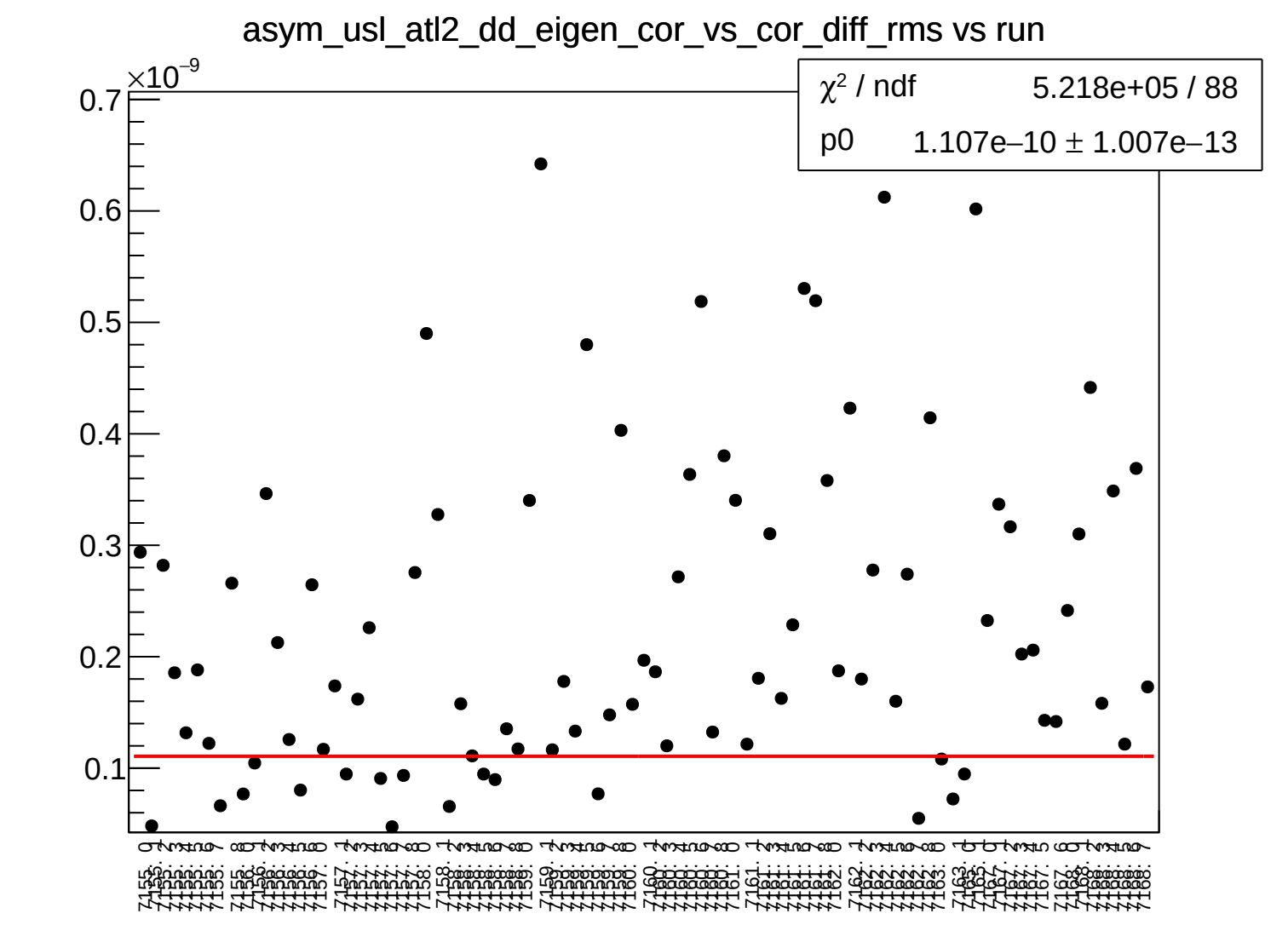

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.726e+04 / 88
p0 214.4 ± 0.1663
400
350
300
250
200
150

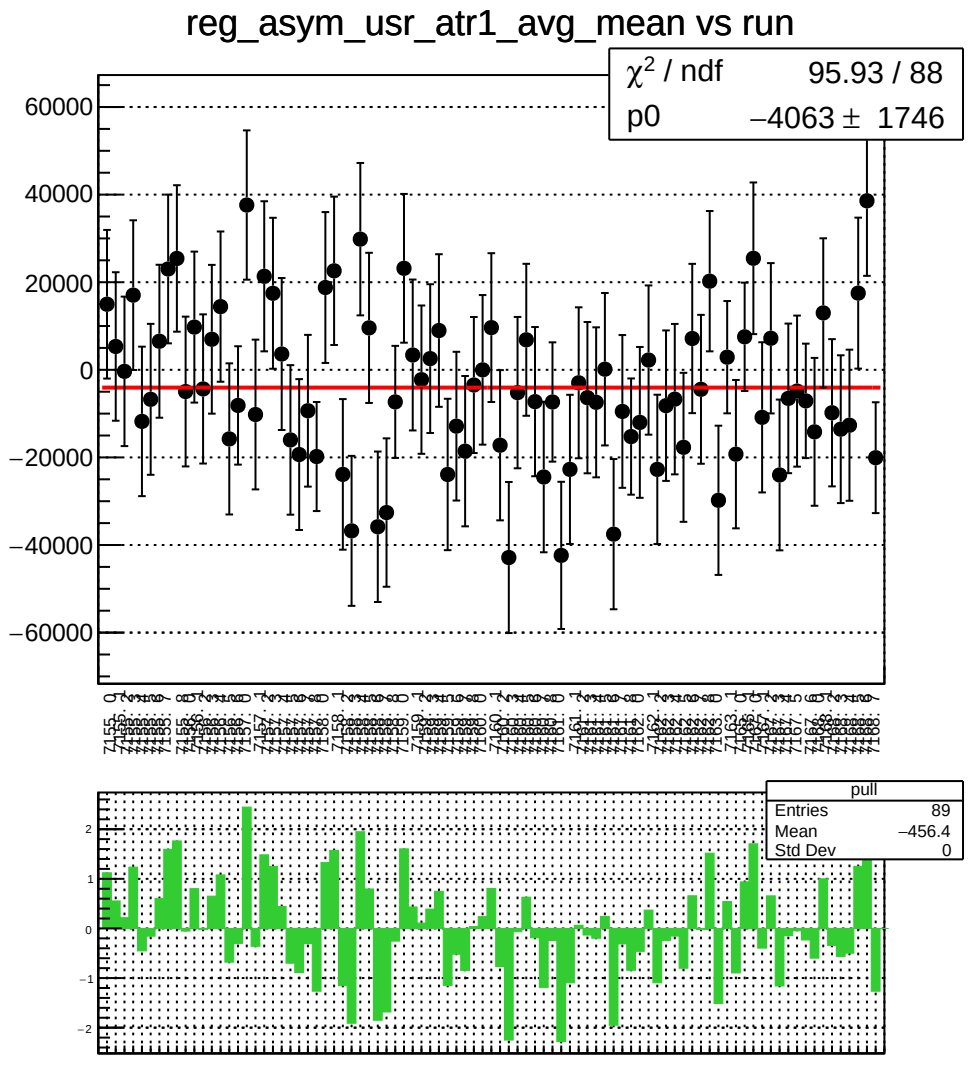

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.12 / 88
p0 −0.3504 ± 0.2351
pull
Entries 89
Mean −119.3
Std Dev 0

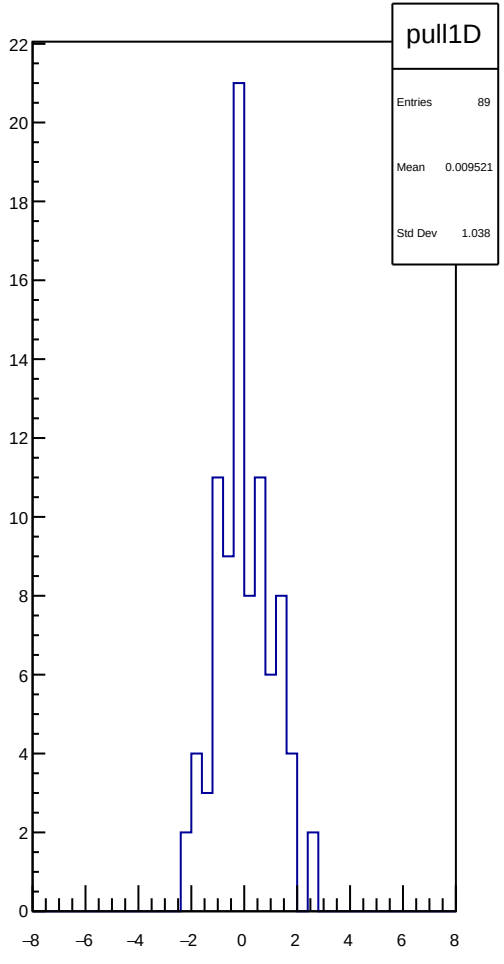

pull1D
Entries 89
Mean 0.01707
Std Dev 0.9063

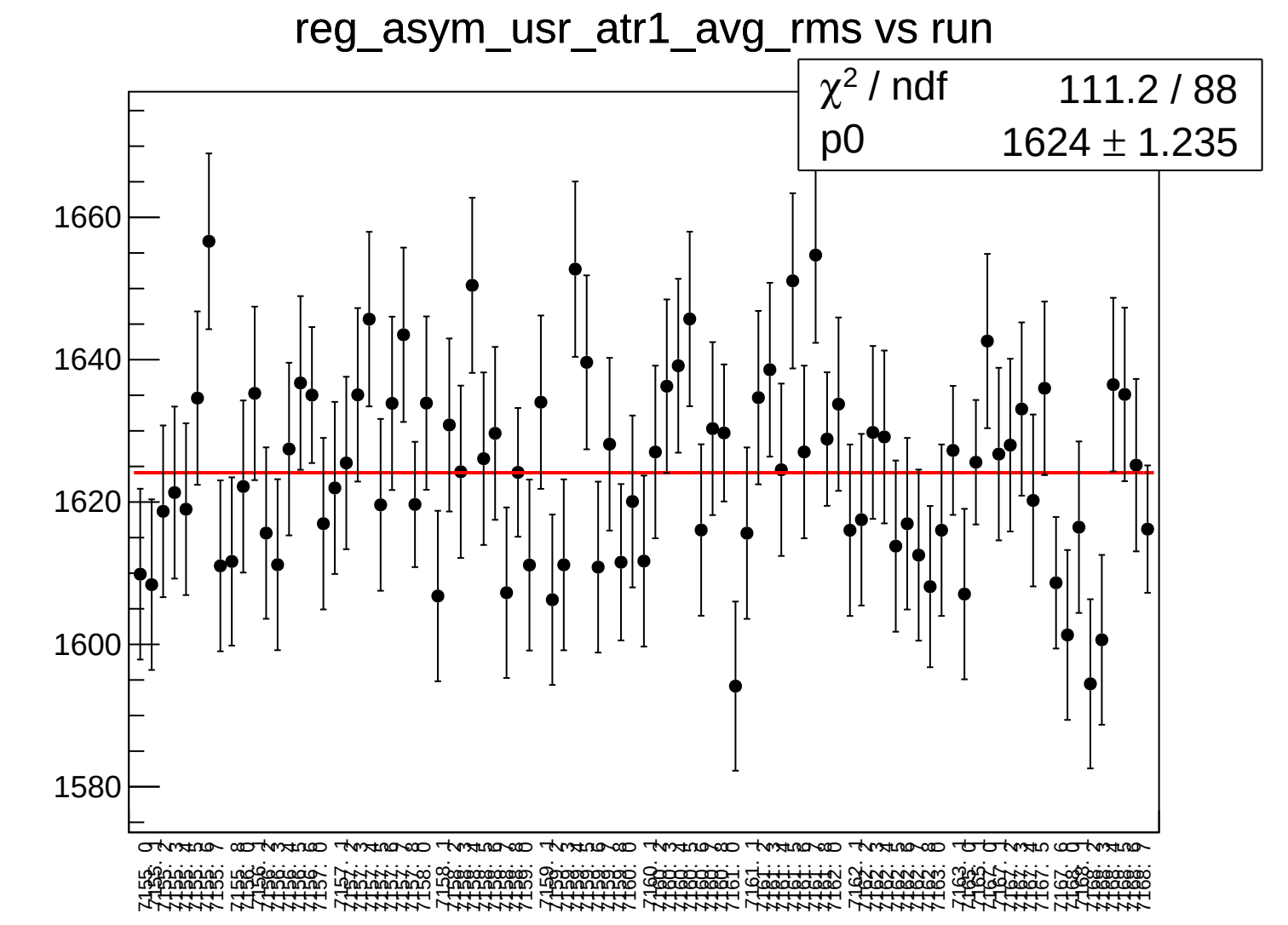

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.726e+04 / 88
p0 214.4 ± 0.1663
400
350
300
250
200
150

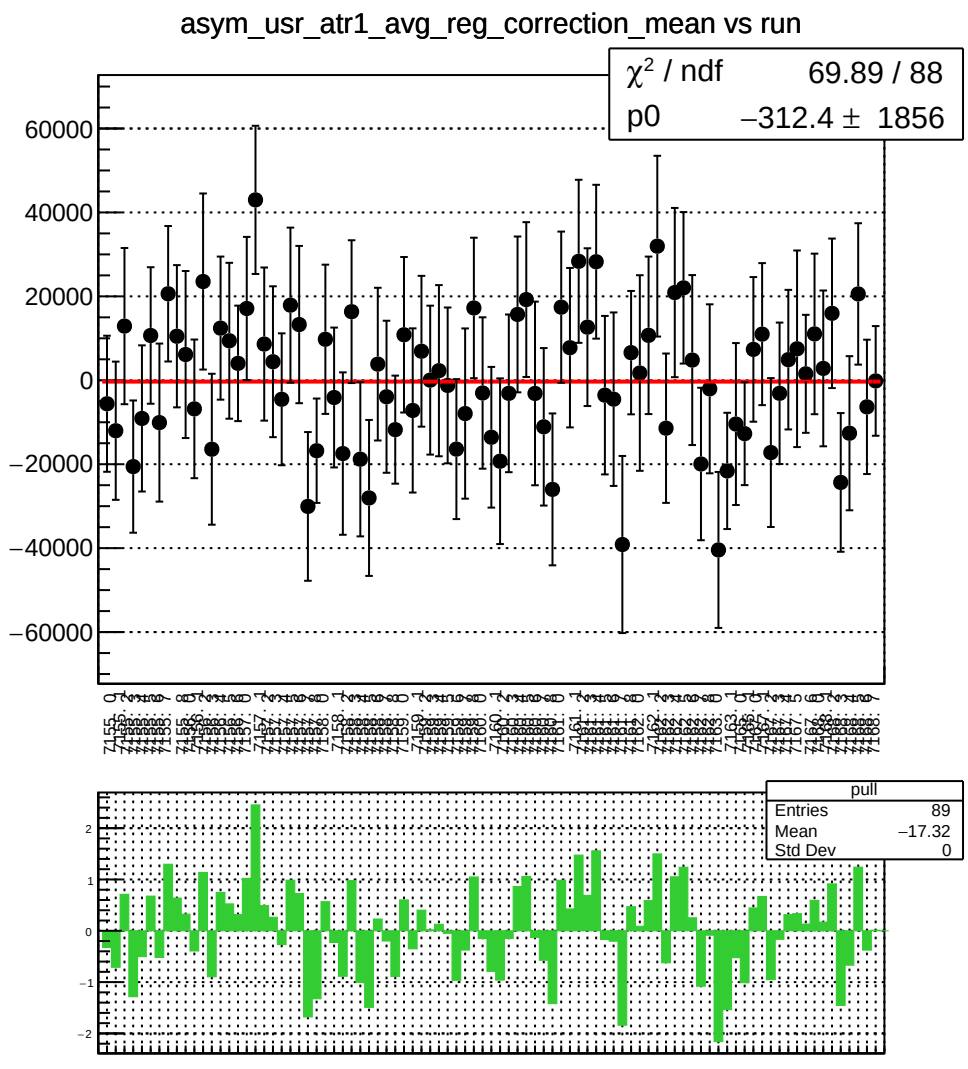

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.73 / 88
p0 −8.963e−14 ± 1.424e−13
pull
Entries 89
Mean −49.78
Std Dev 0
pull1D
Entries 89
Mean −0.0225
Std Dev 0.9926

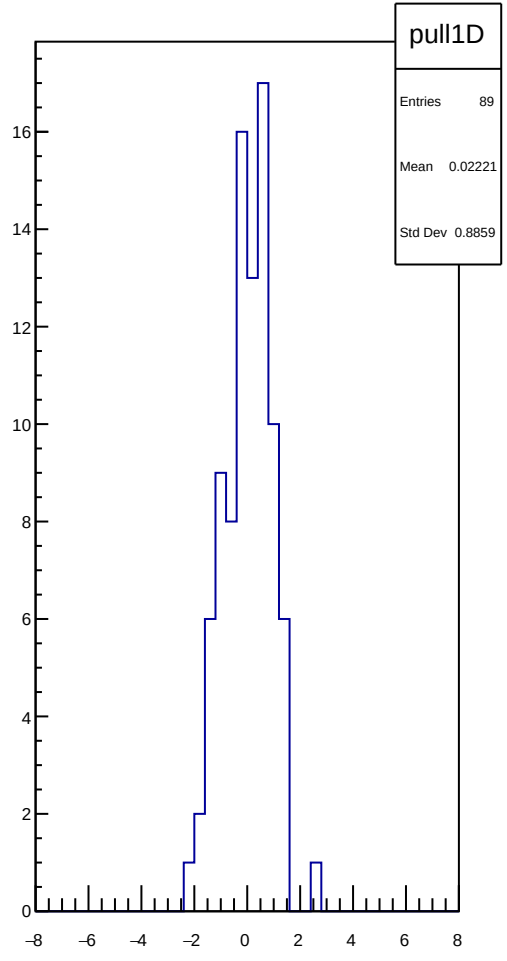

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 5.218e+05 / 88
p0 1.107e−10 ± 1.007e−13

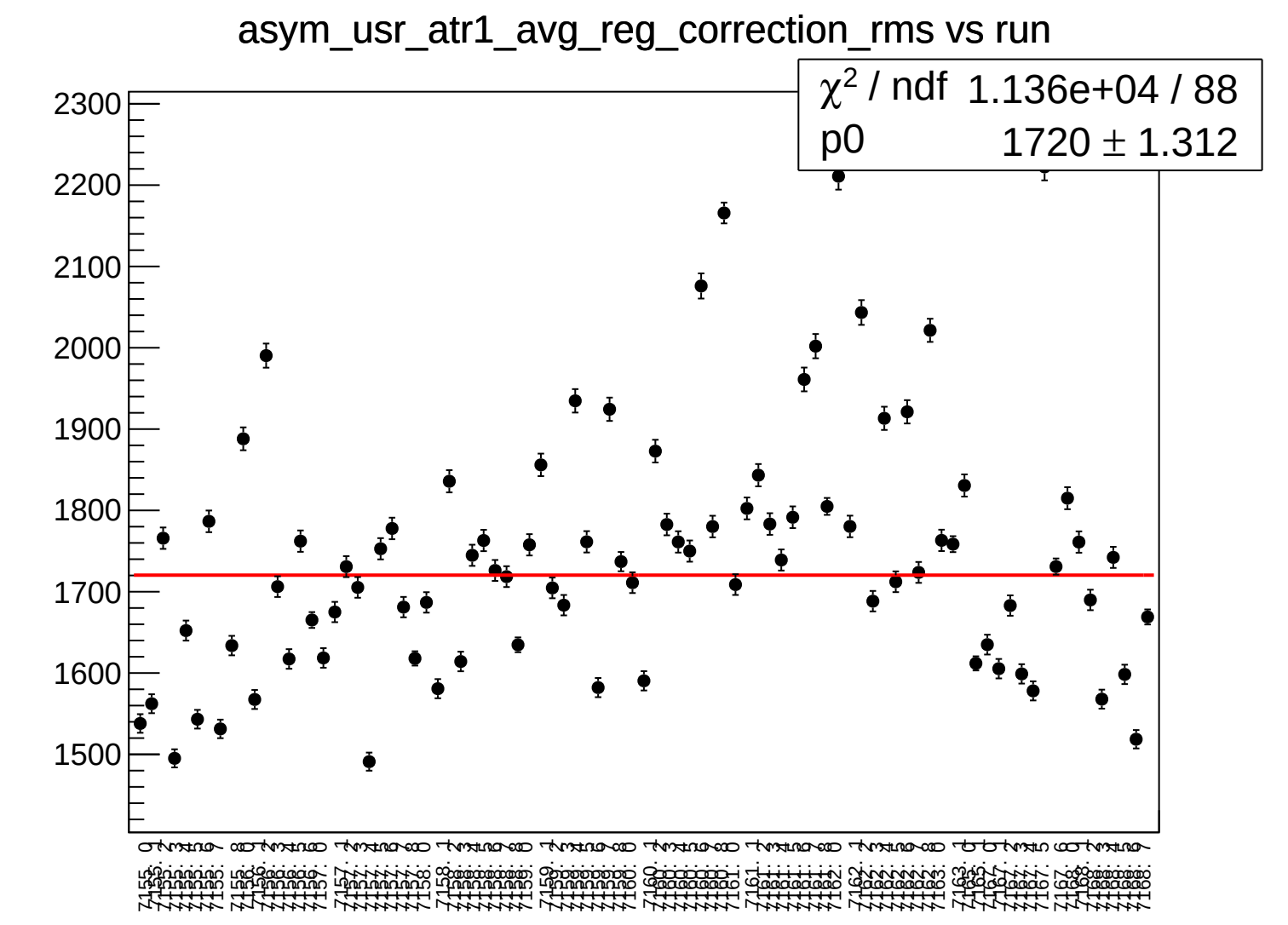

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.93 / 88
p0 −4063 ± 1746
pull
Entries 89
Mean −456.4
Std Dev 0

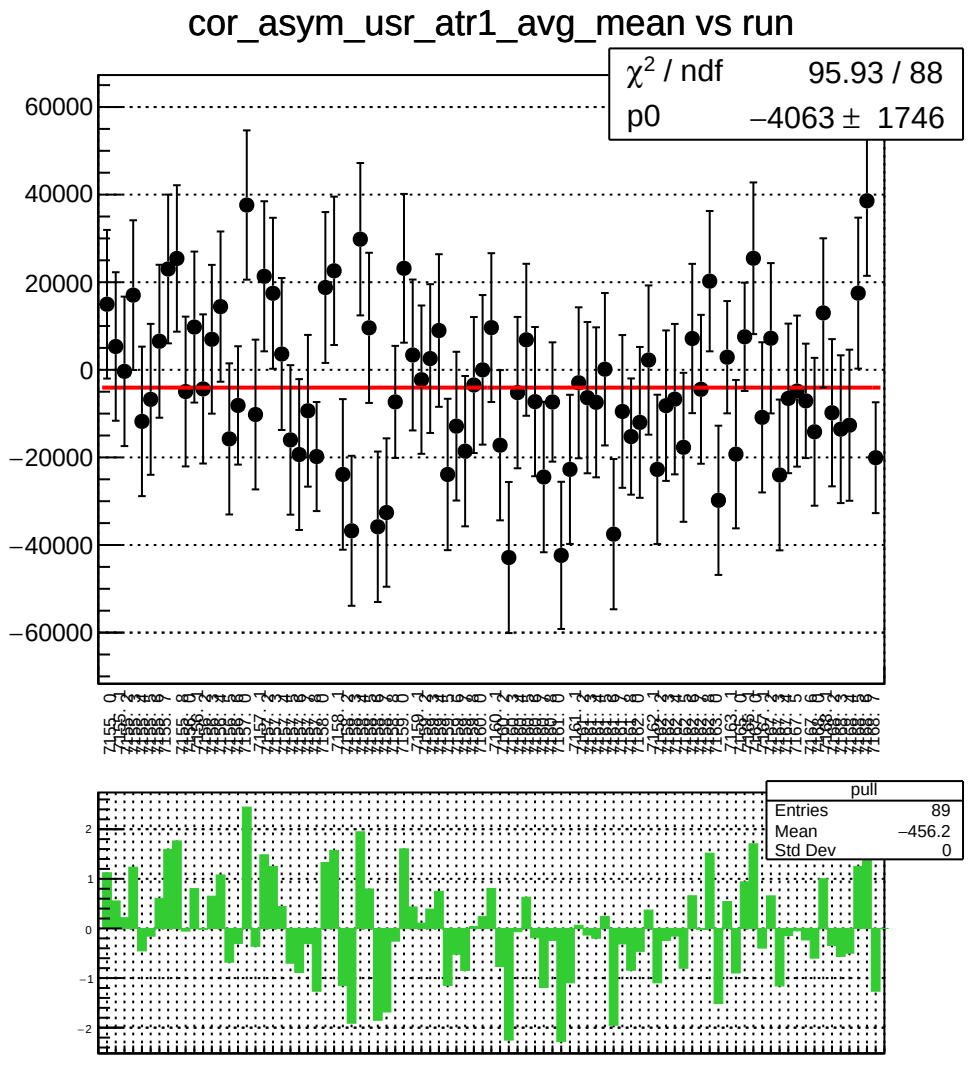

pull1D
Entries 89
Mean 0.009521
Std Dev 1.038

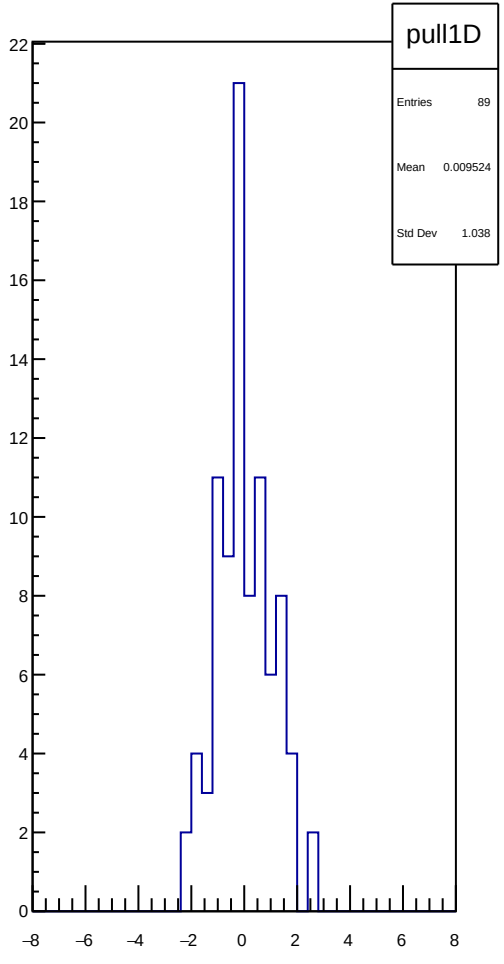

reg_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 111.2 / 88
p0 1624 ± 1.235
1660
1640
1620
1600
1580

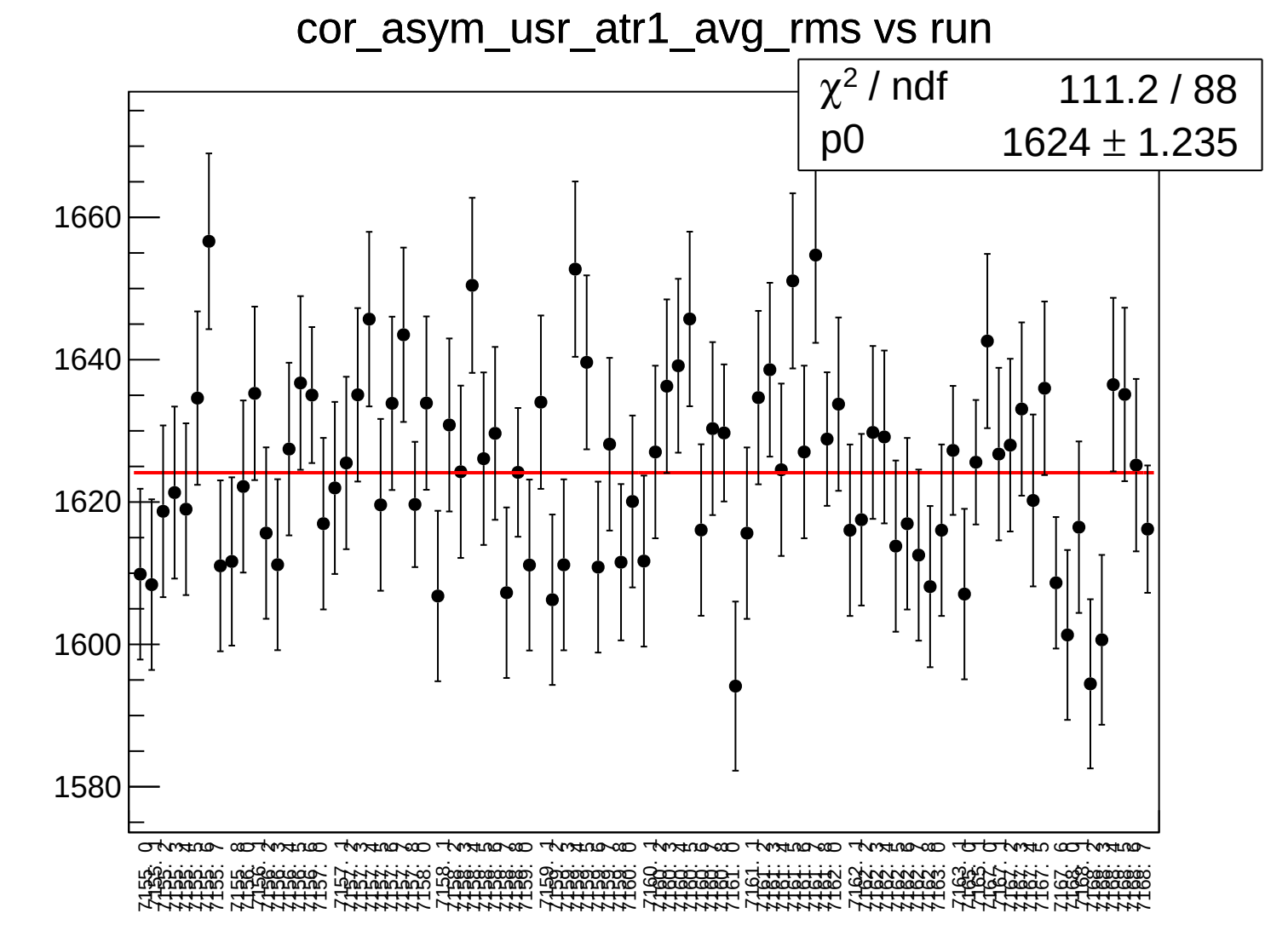

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 69.89 / 88
p0 −312.4 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −17.32
Std Dev 0
2
1
0
−1
−2

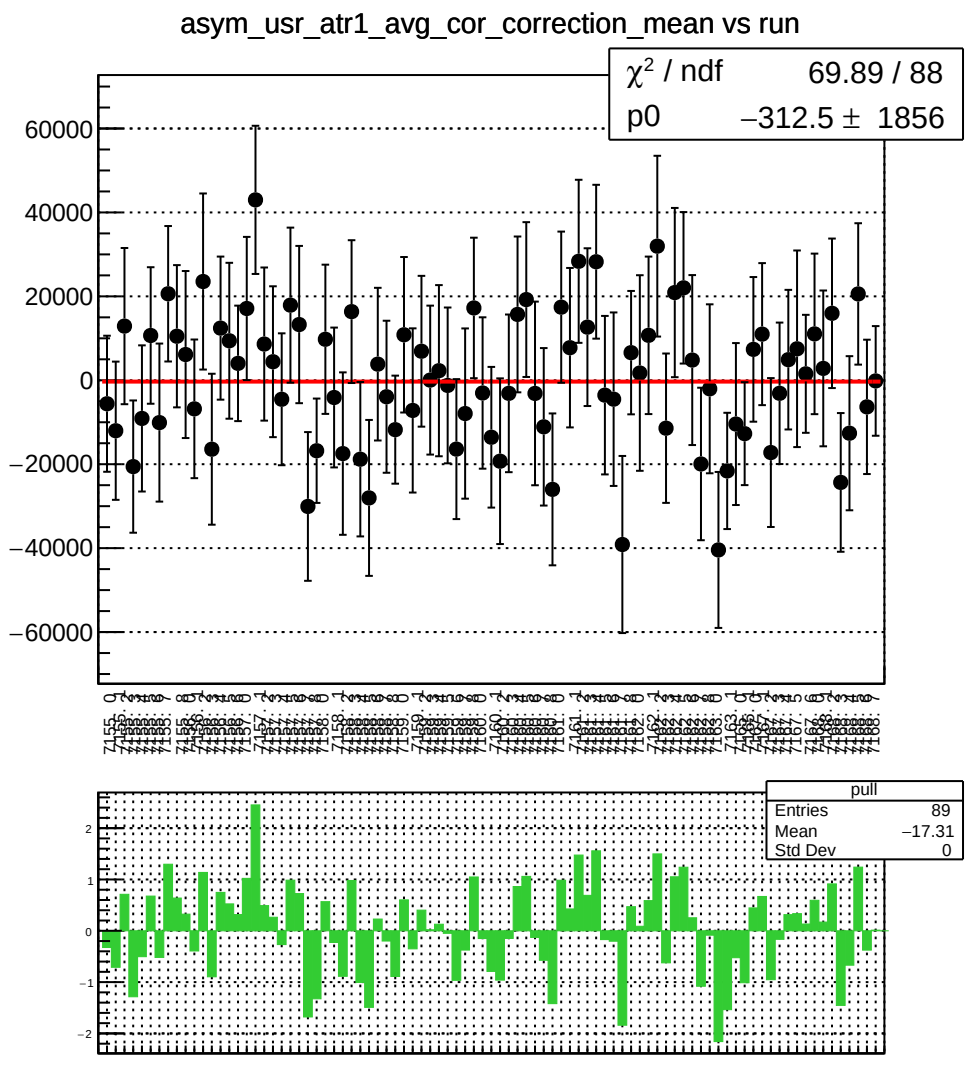

pull1D
Entries 89
Mean 0.02221
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

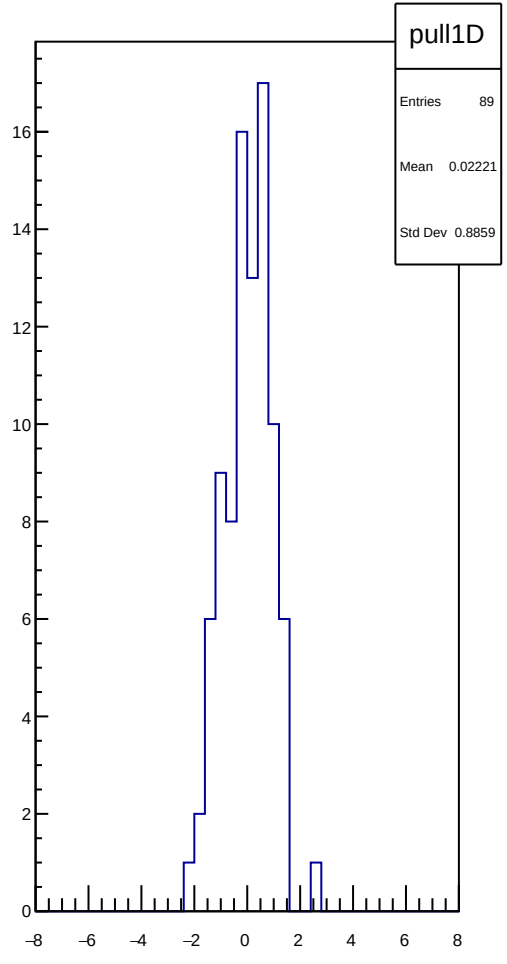

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 1.136e+04 / 88
p0 1720 ± 1.312
2300
2200
2100
2000
1900
1800
1700
1600
1500

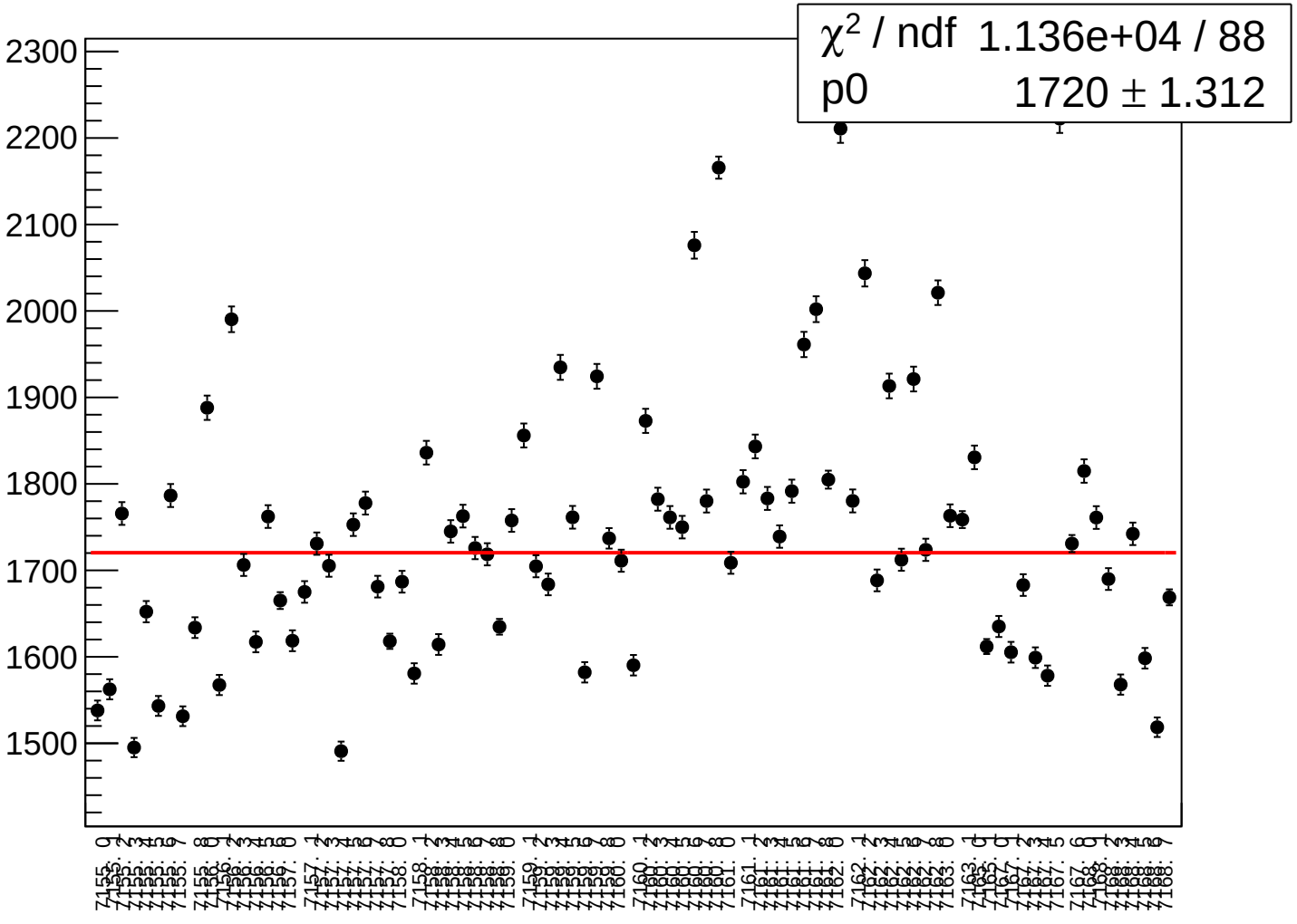

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.93 / 88
p0 −4063 ± 1746
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −456.2
Std Dev 0
2
1
0
−1
−2

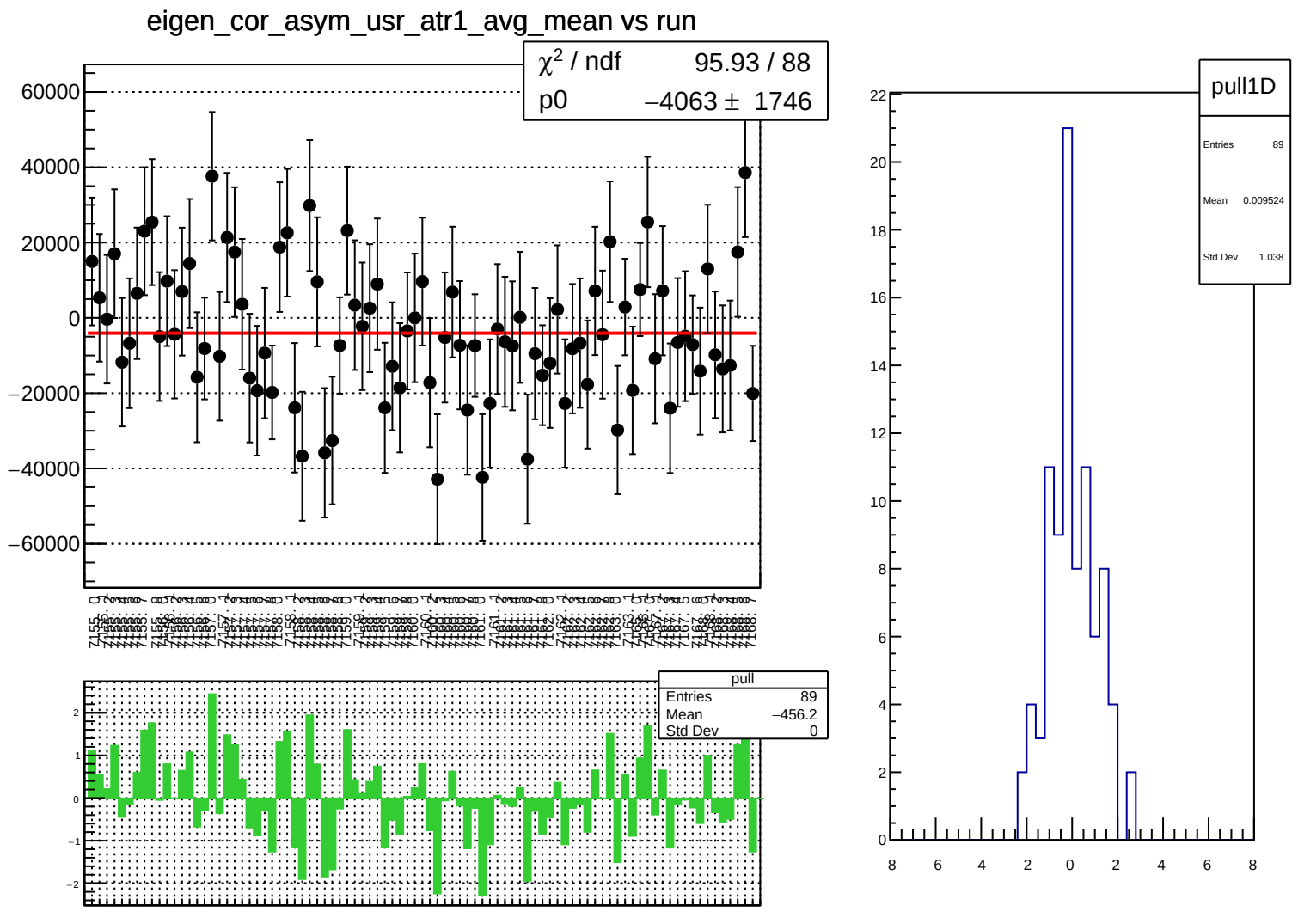

pull1D
Entries 89
Mean 0.009524
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

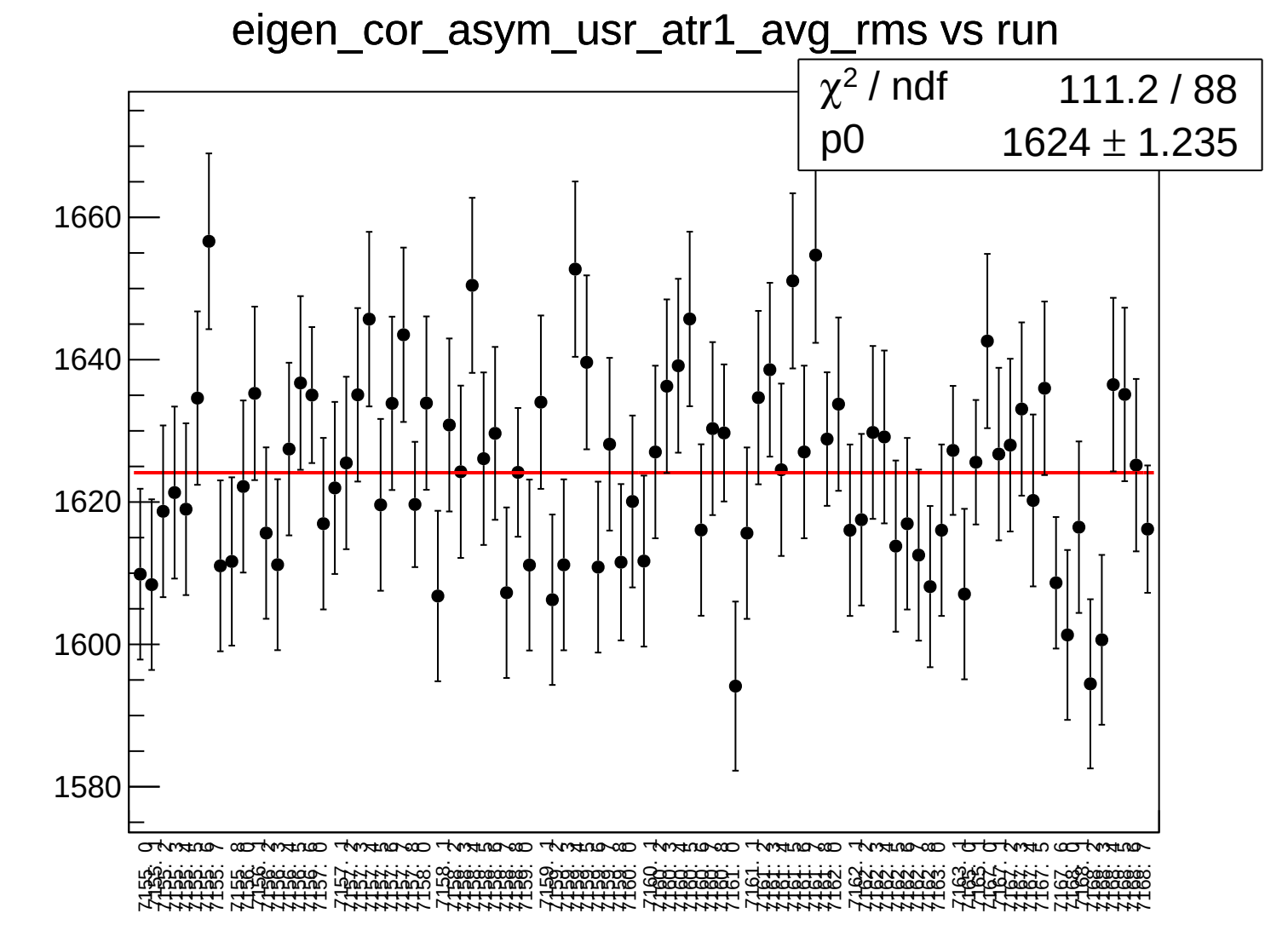

cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 111.2 / 88
p0 1624 ± 1.235
1660
1640
1620
1600
1580

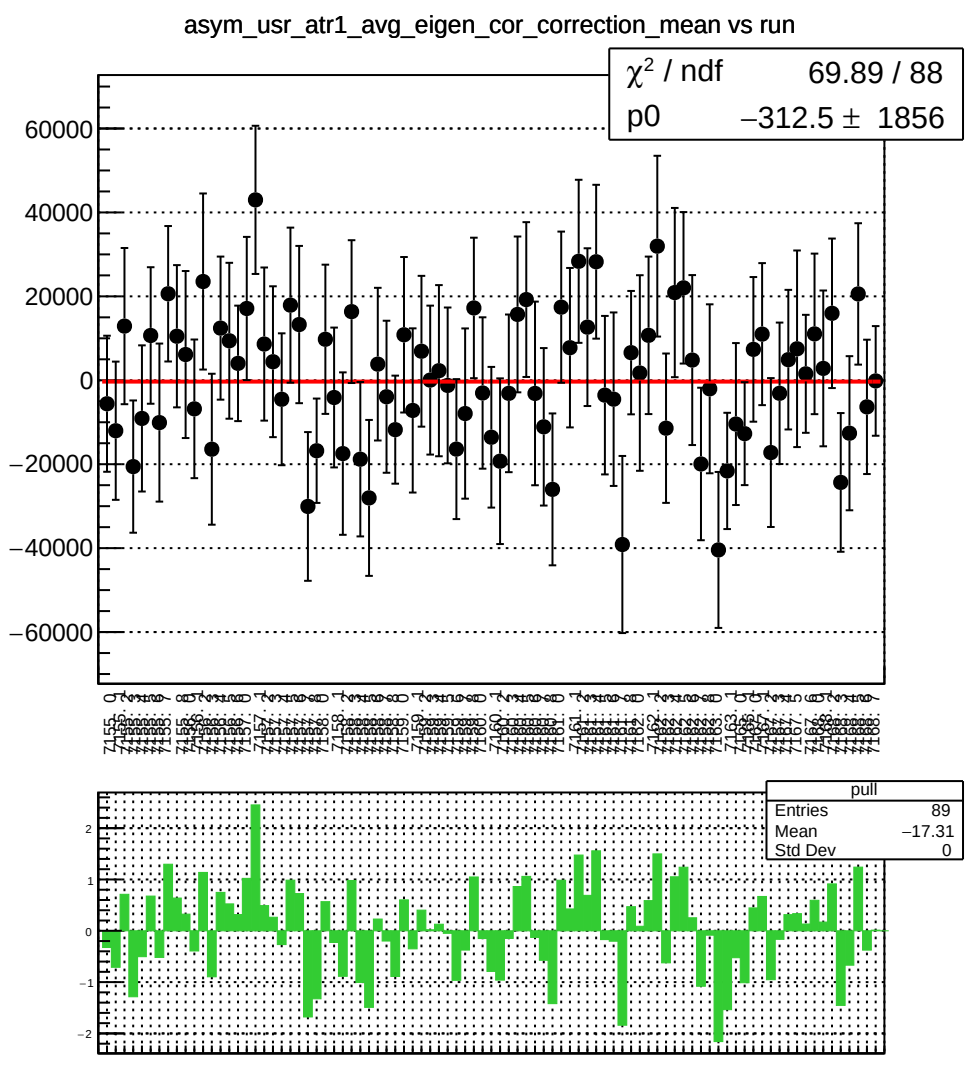

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 69.89 / 88
p0 −312.5 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −17.31
Std Dev 0
2
1
0
−1
−2

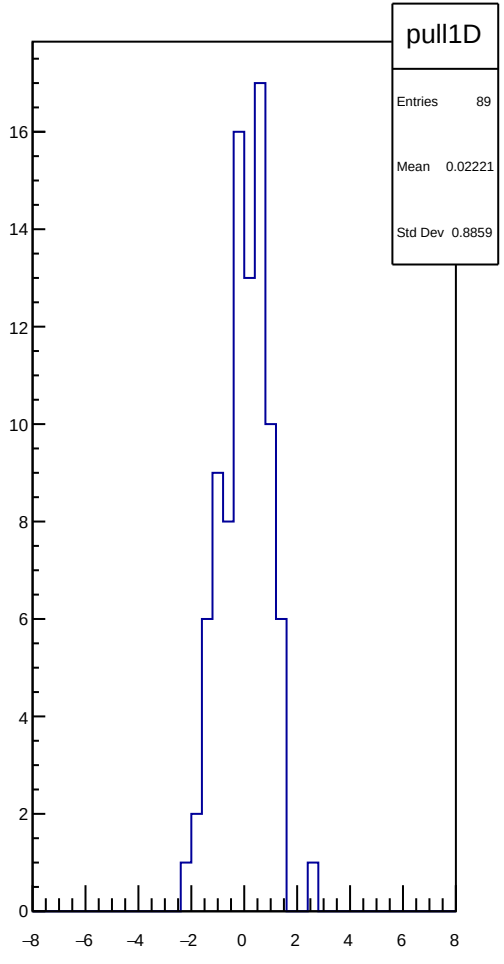

pull1D
Entries 89
Mean 0.02221
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

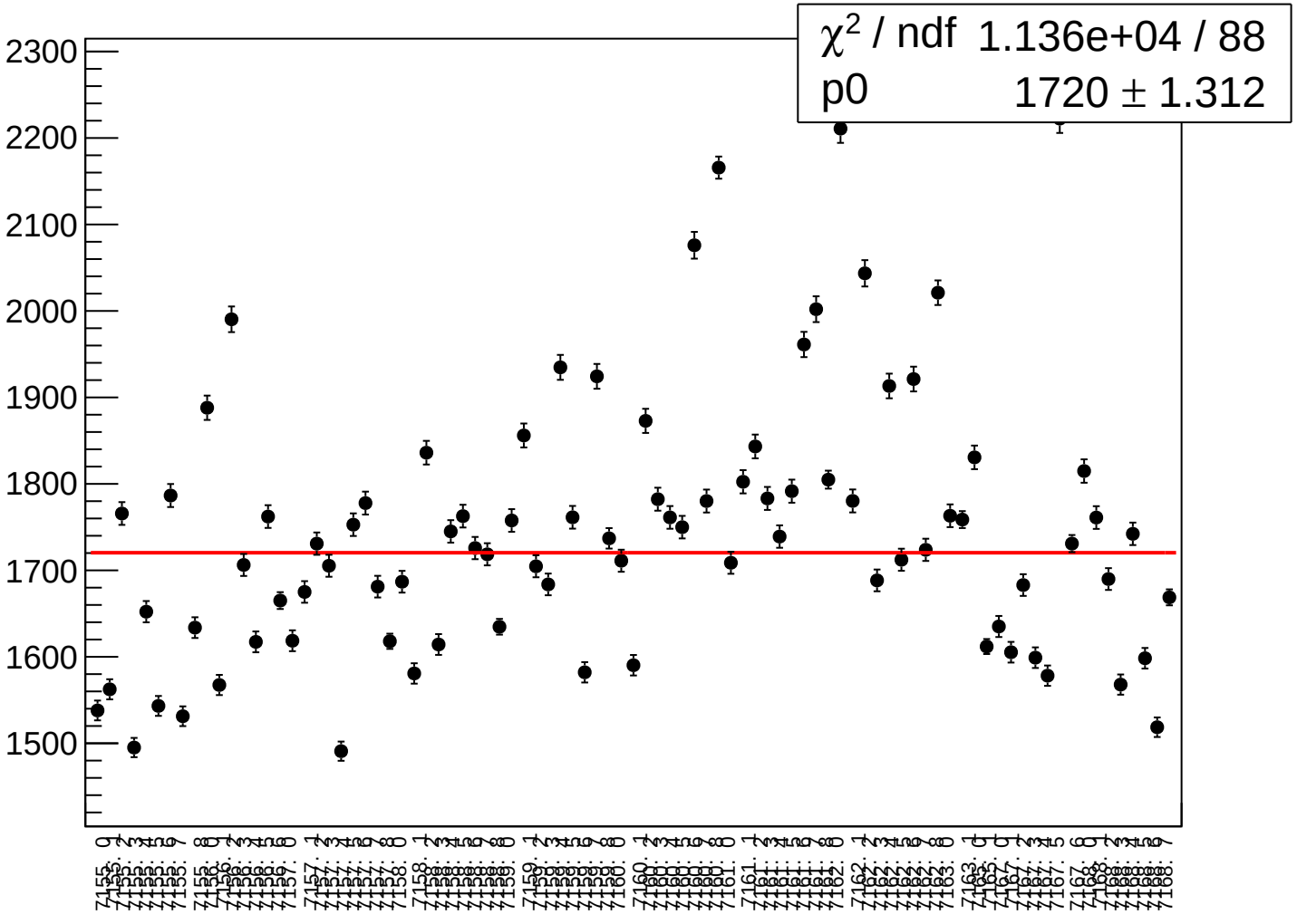

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 1.136e+04 / 88
p0 1720 ± 1.312
2300
2200
2100
2000
1900
1800
1700
1600
1500

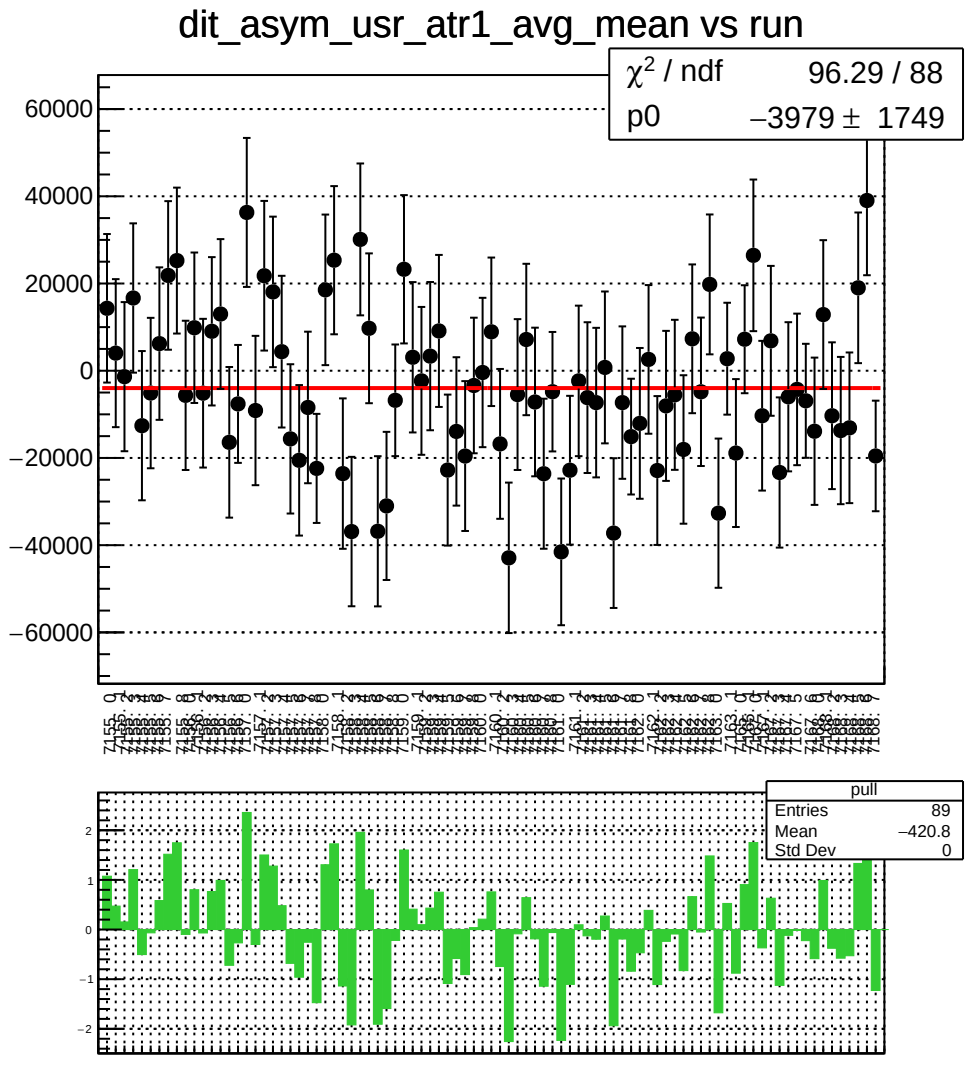

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 95.93 / 88
p0 −4063 ± 1746
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −456.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.009524
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

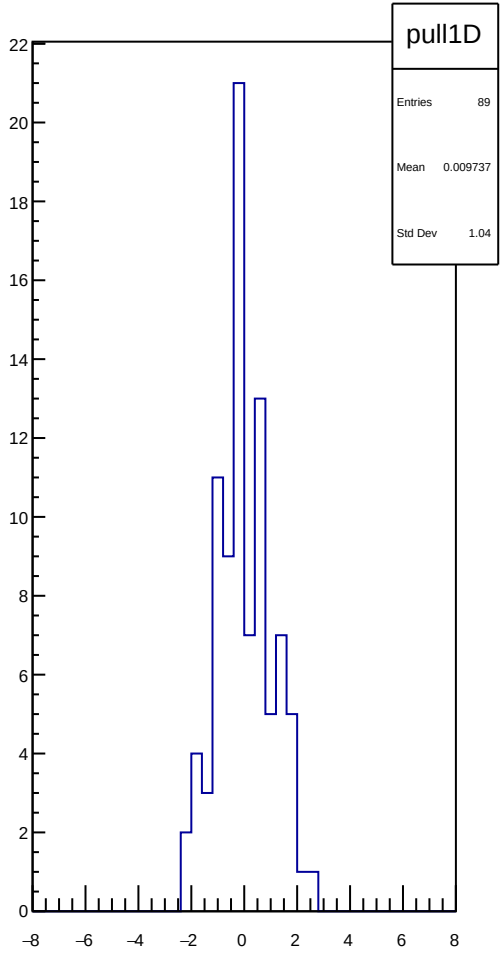

eigen_cor_asym_usr_atr1_avg_rms vs run
χ^2 / ndf 111.2 / 88
p0 1624 ± 1.235
1660
1640
1620
1600
1580

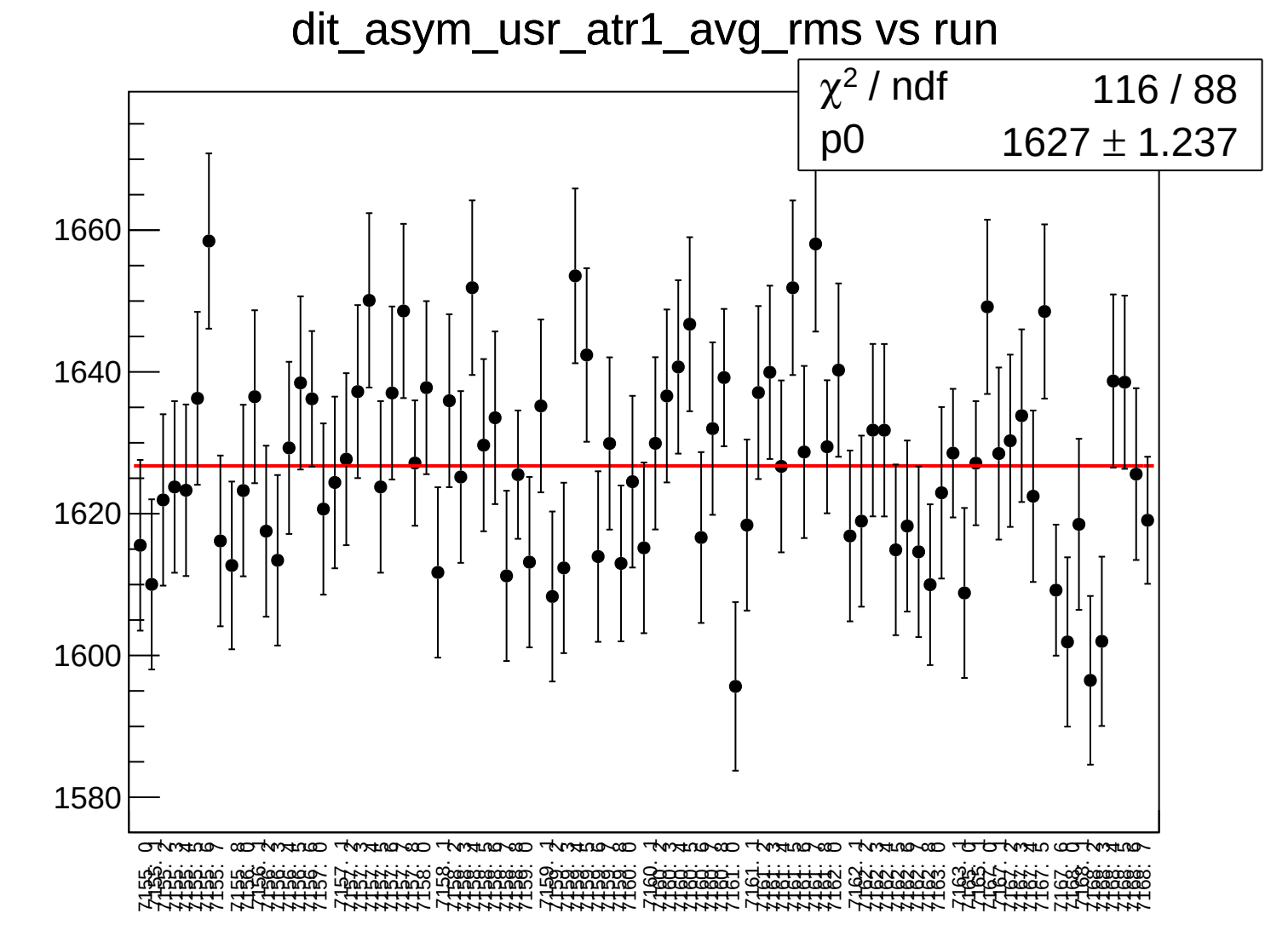

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.89 / 88
p0 −312.5 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −17.31
Std Dev 0
2
1
0
−1
−2

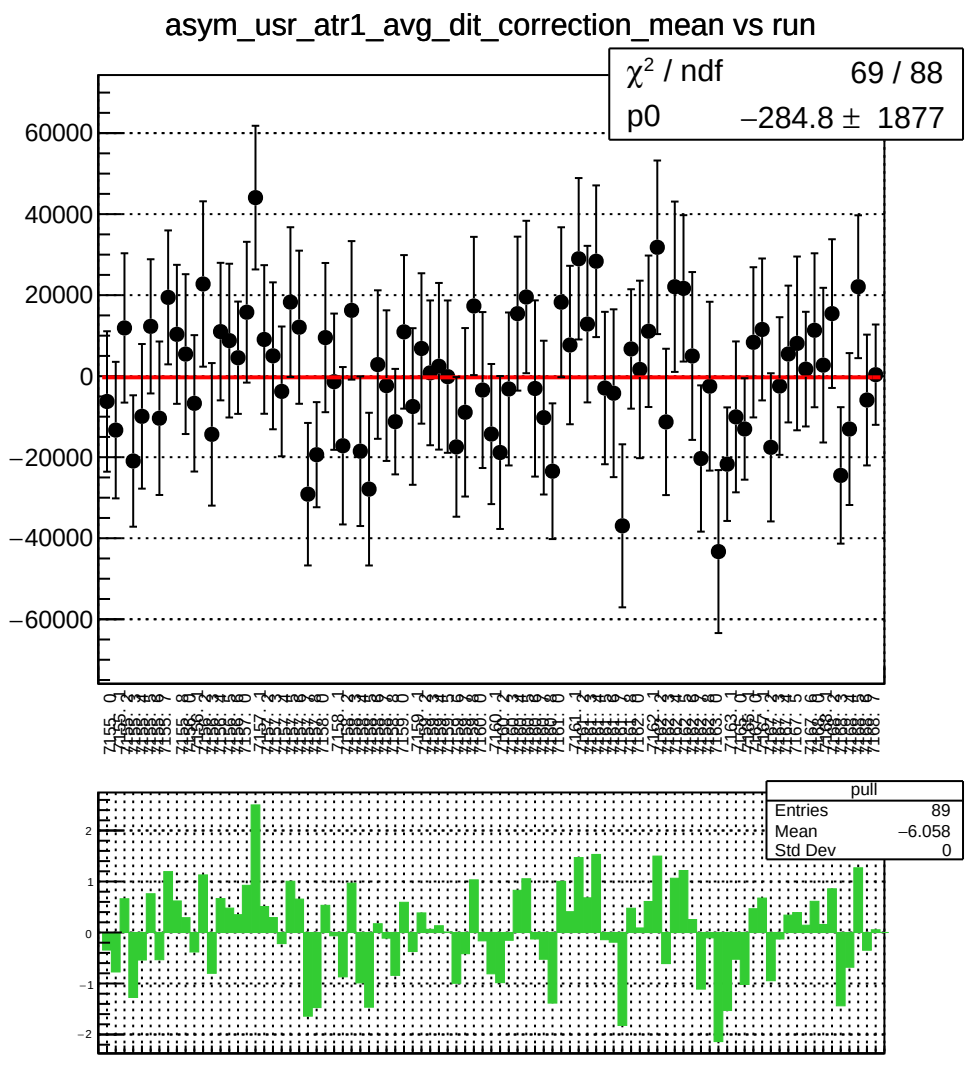

pull1D
Entries 89
Mean 0.02221
Std Dev 0.8859
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

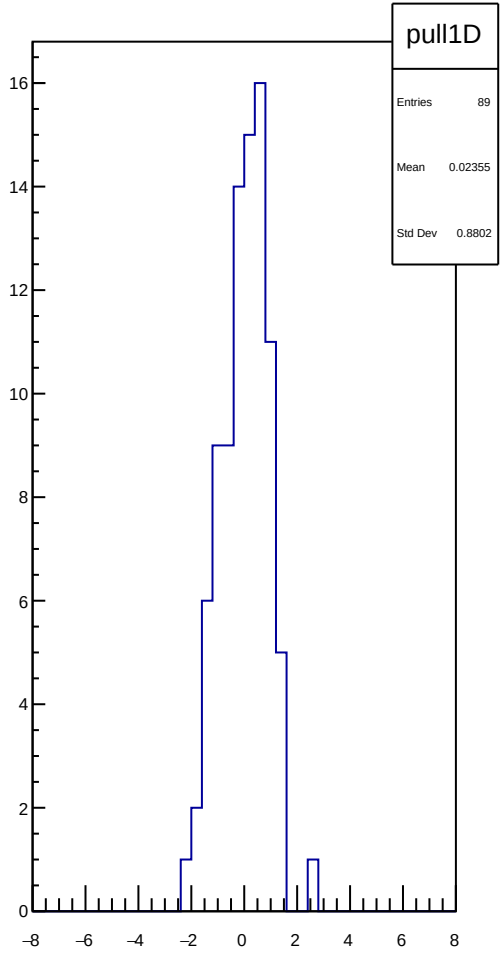

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.136e+04 / 88
p0 1720 ± 1.312
2300
2200
2100
2000
1900
1800
1700
1600
1500

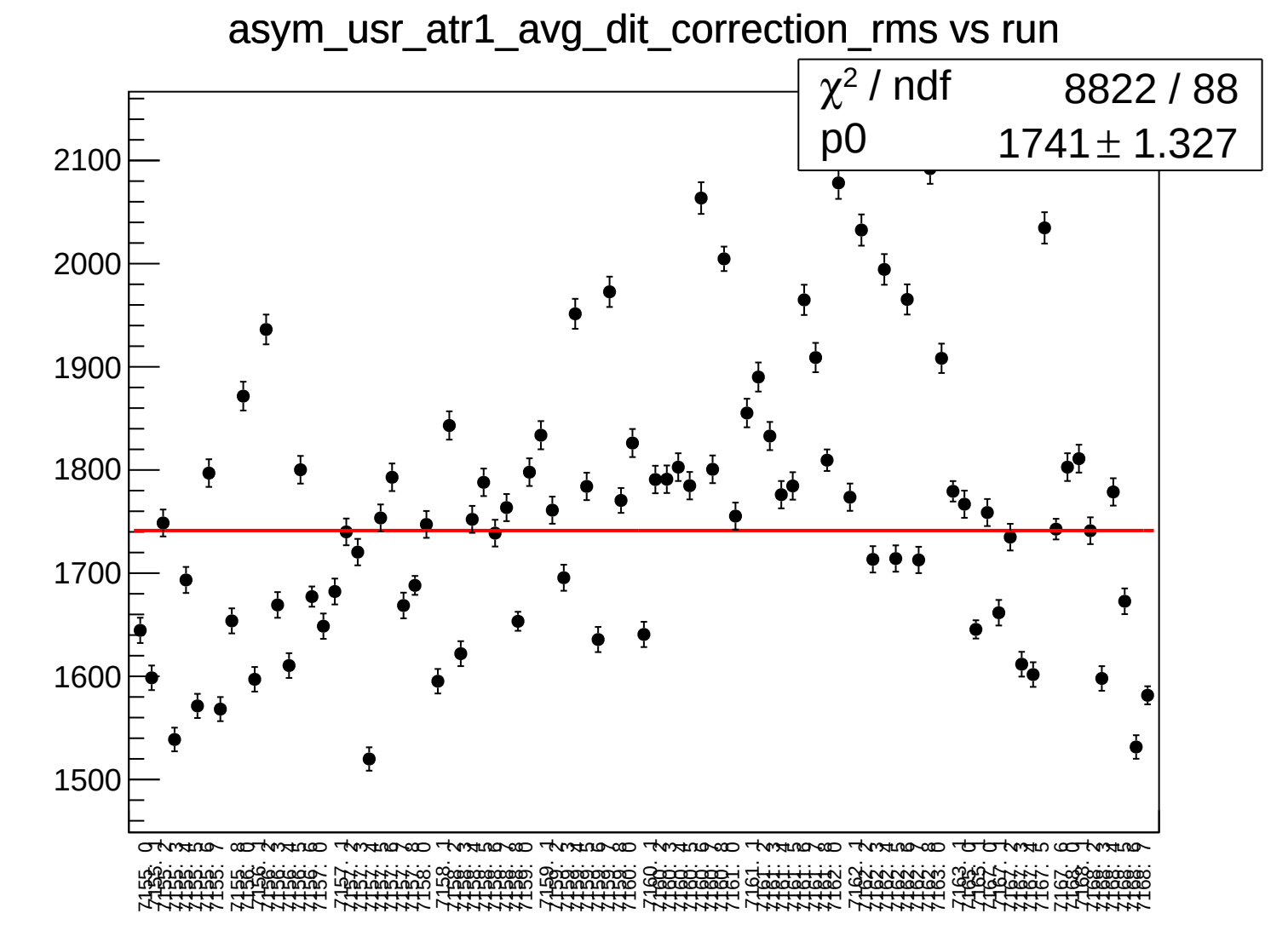

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 96.29 / 88
p0 −3979 ± 1749
pull
Entries 89
Mean −420.8
Std Dev 0

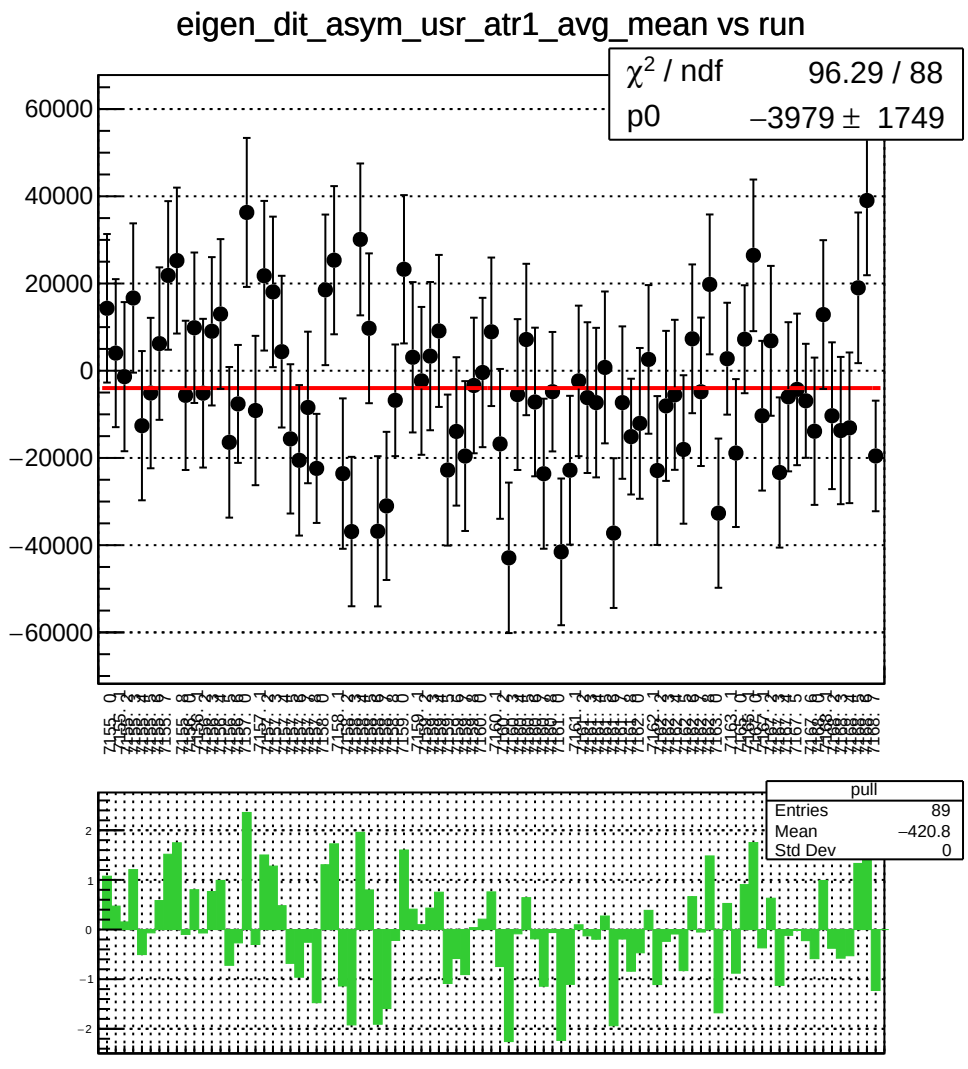

pull1D
Entries 89
Mean 0.009737
Std Dev 1.04

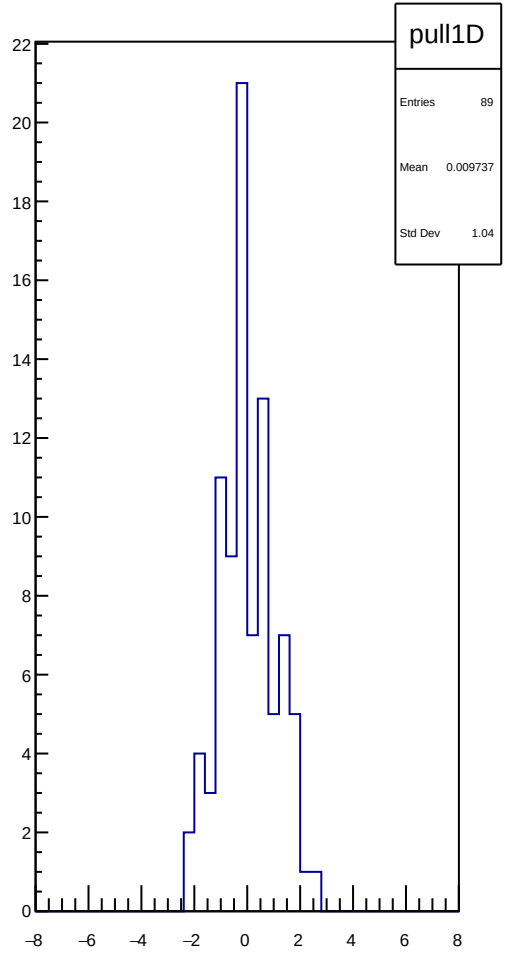

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 116 / 88
p0 1627 ± 1.237
1660
1640
1620
1600
1580

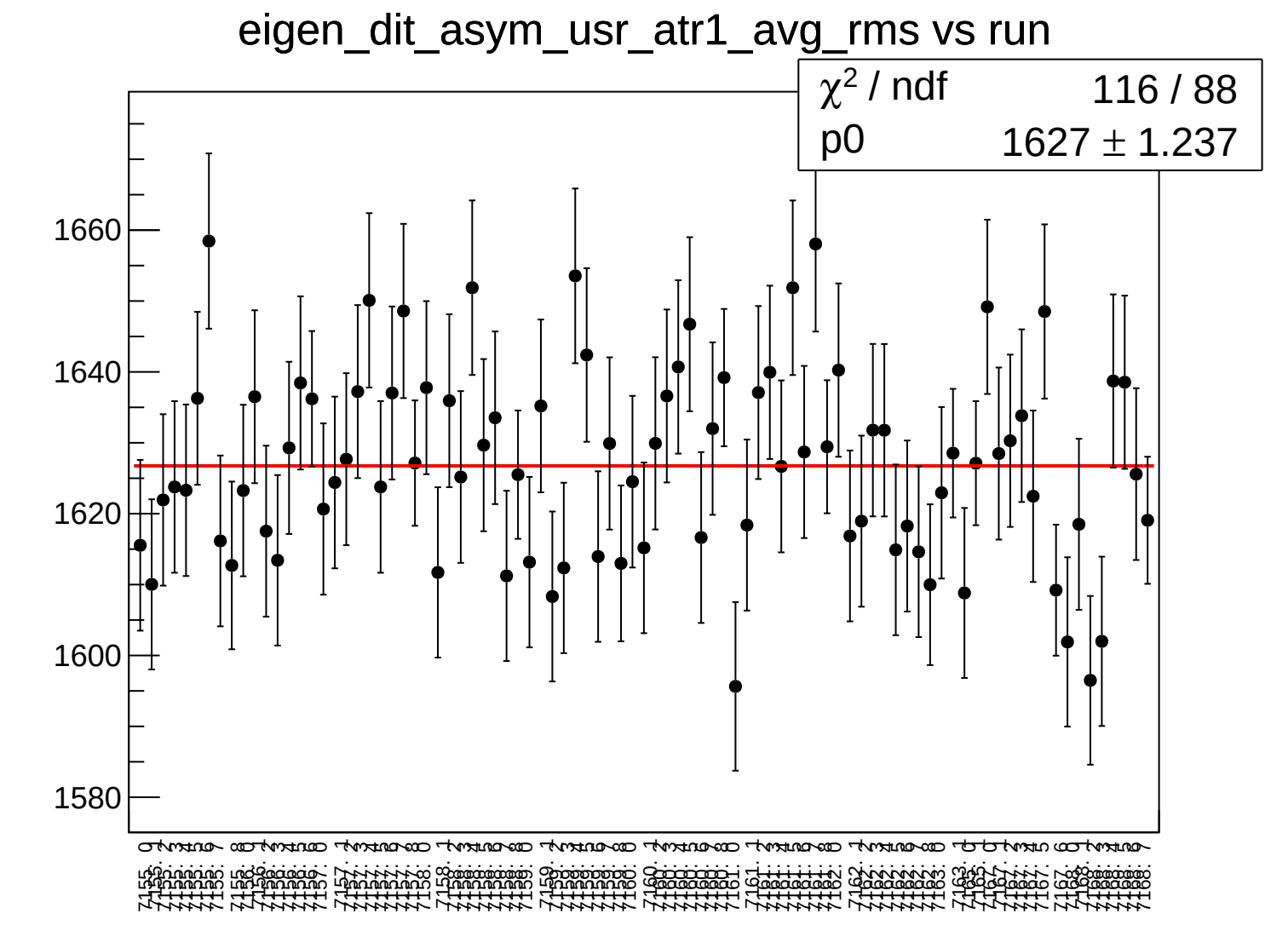

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 69 / 88
p0 −284.8 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −6.058
Std Dev 0
2
1
0
−1
−2

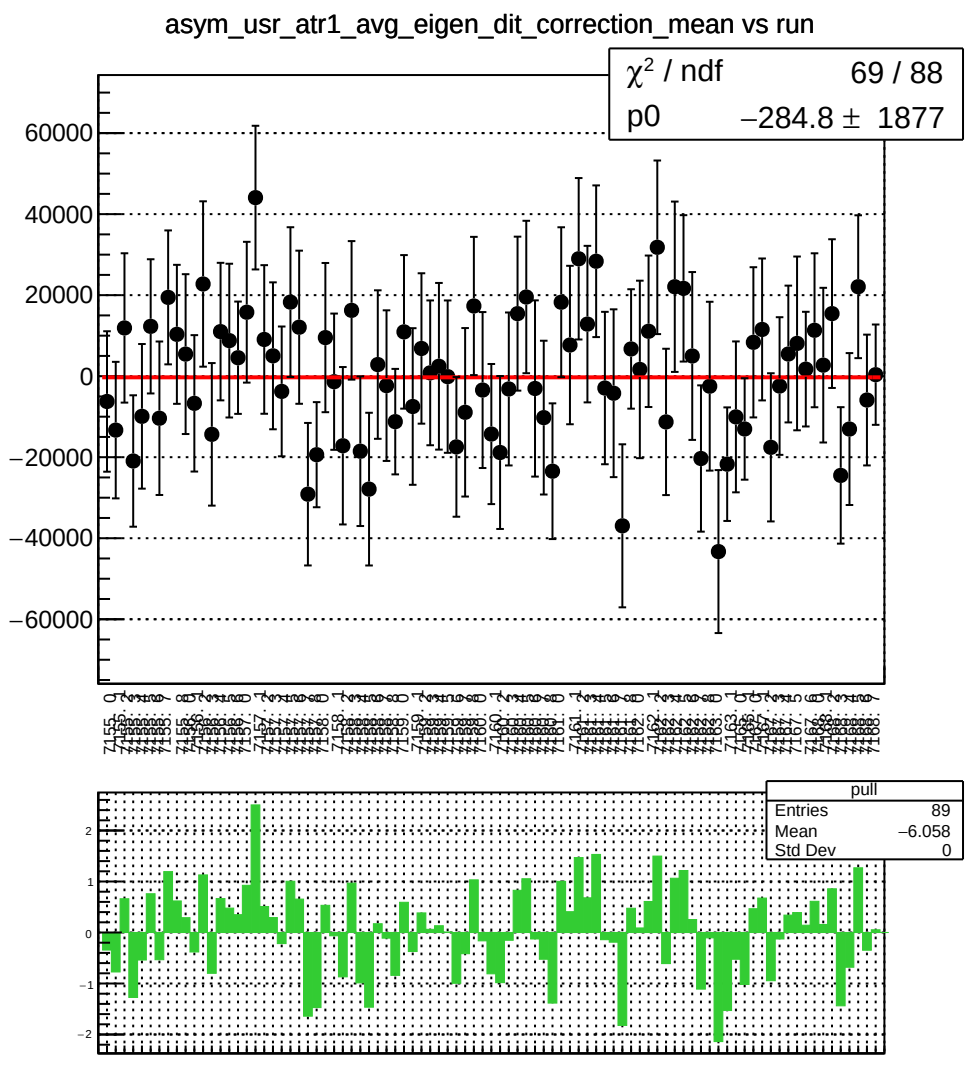

pull1D
Entries 89
Mean 0.02355
Std Dev 0.8802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

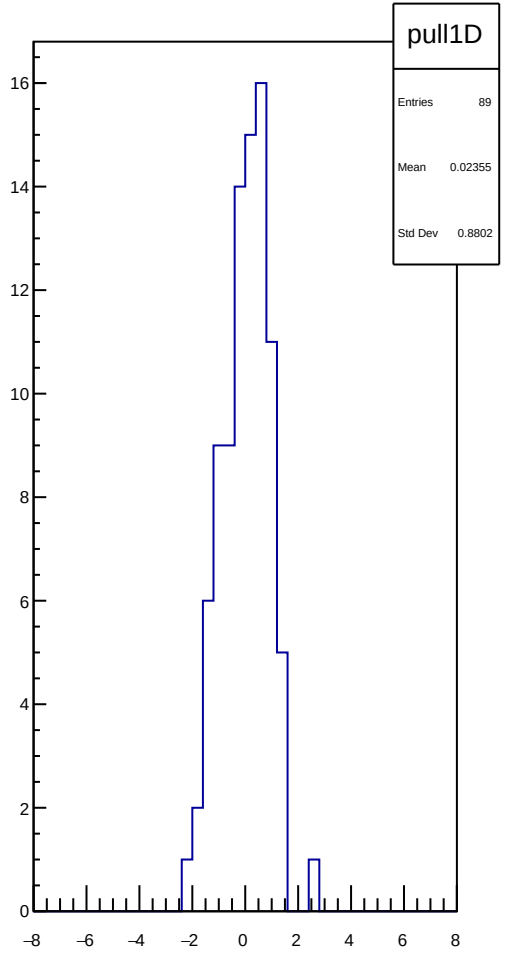

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 1741 ± 1.327
2100
2000
1900
1800
1700
1600
1500

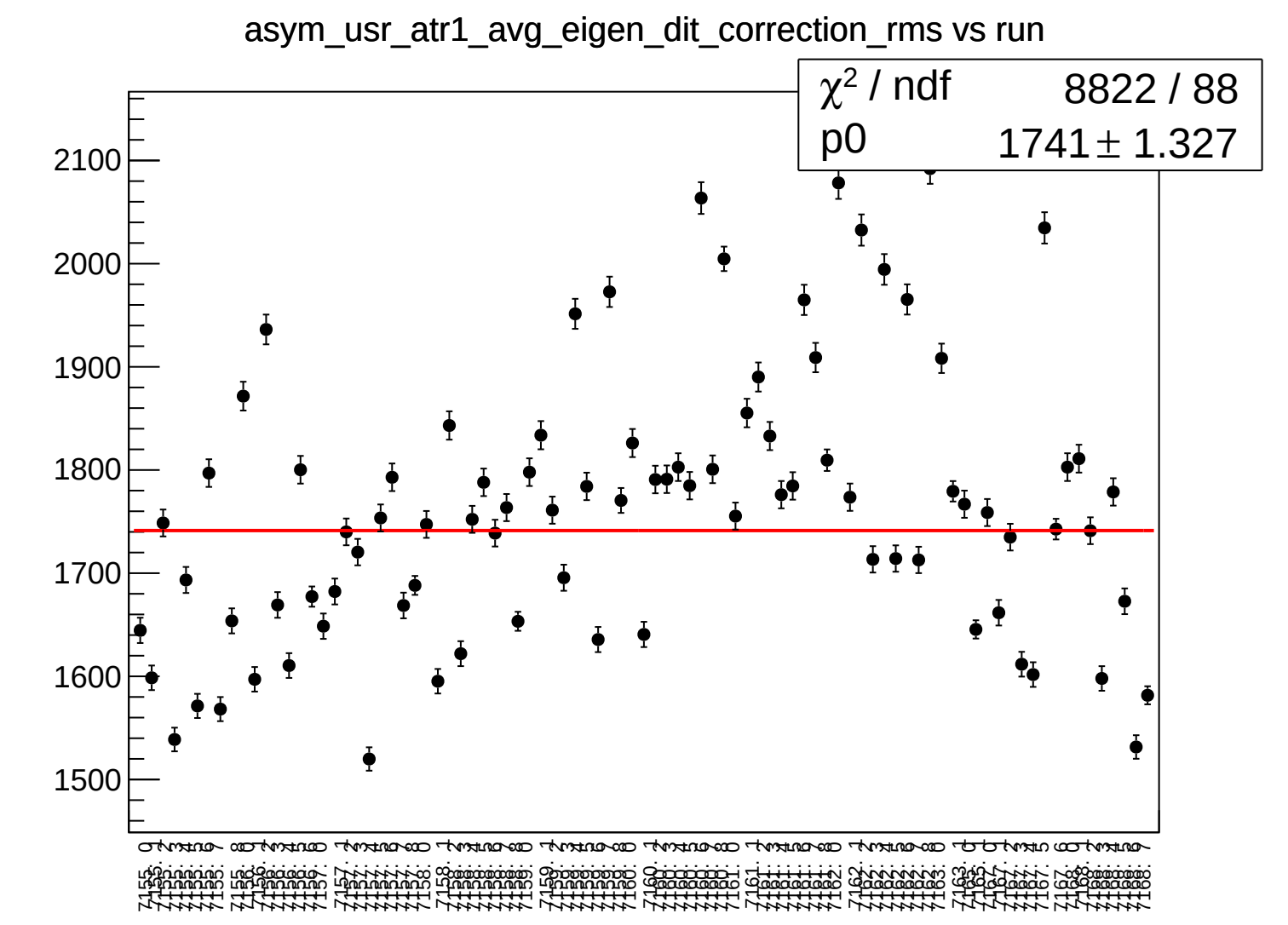

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 96.29 / 88
p0 −3979 ± 1749
pull
Entries 89
Mean −420.8
Std Dev 0

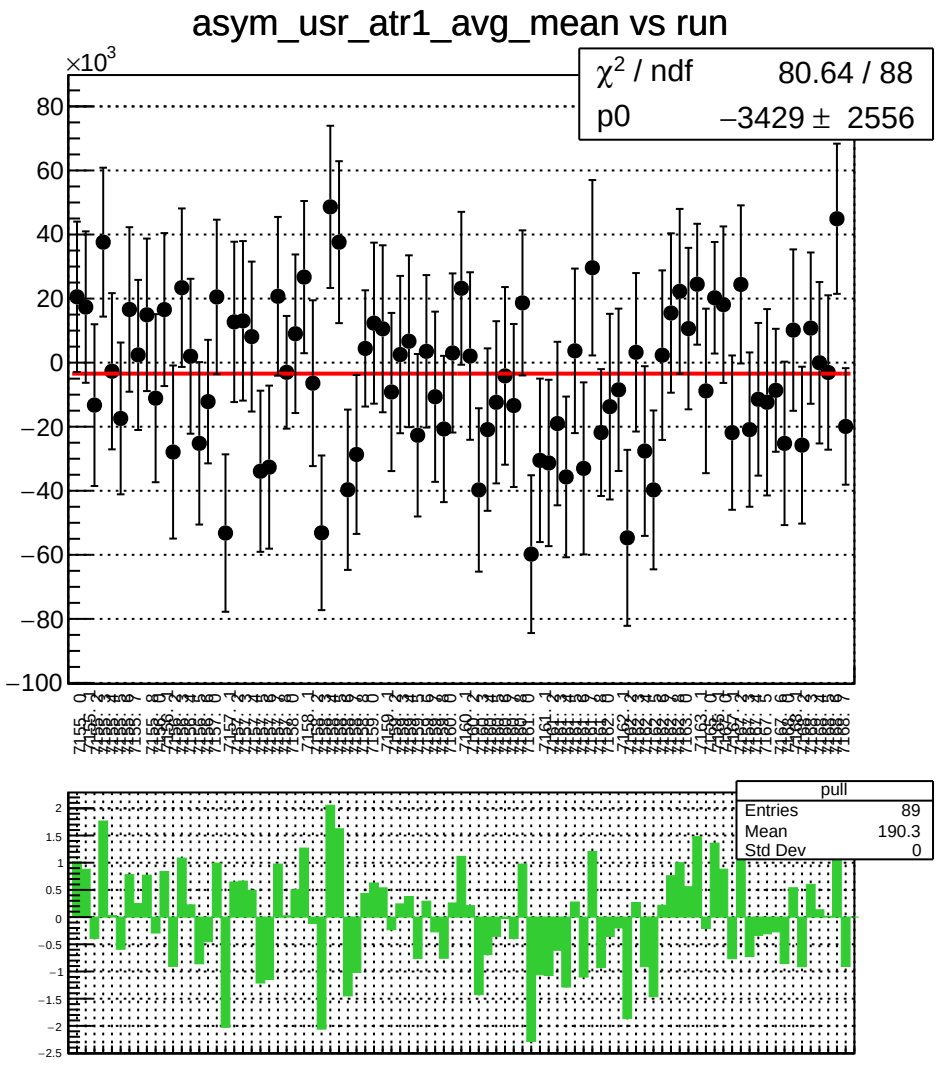

pull1D
Entries 89
Mean 0.009737
Std Dev 1.04

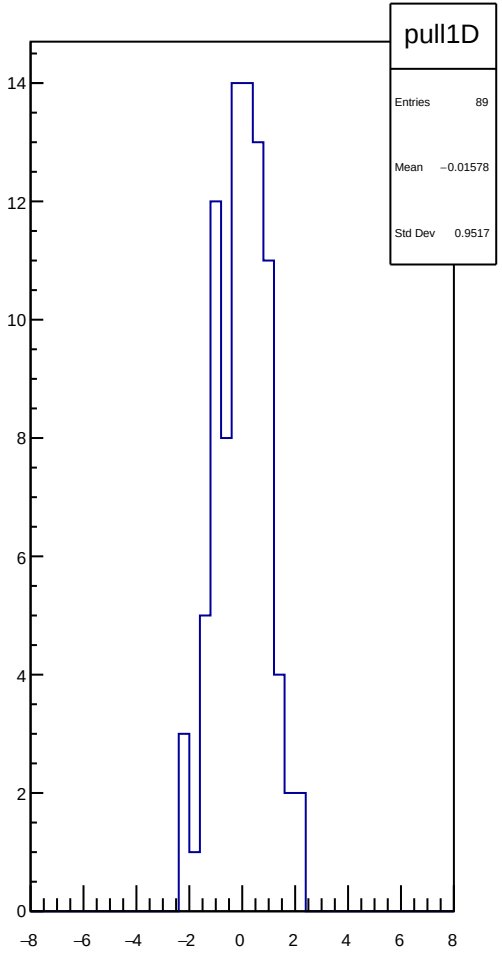

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 116 / 88
p0 1627 ± 1.237
1660
1640
1620
1600
1580

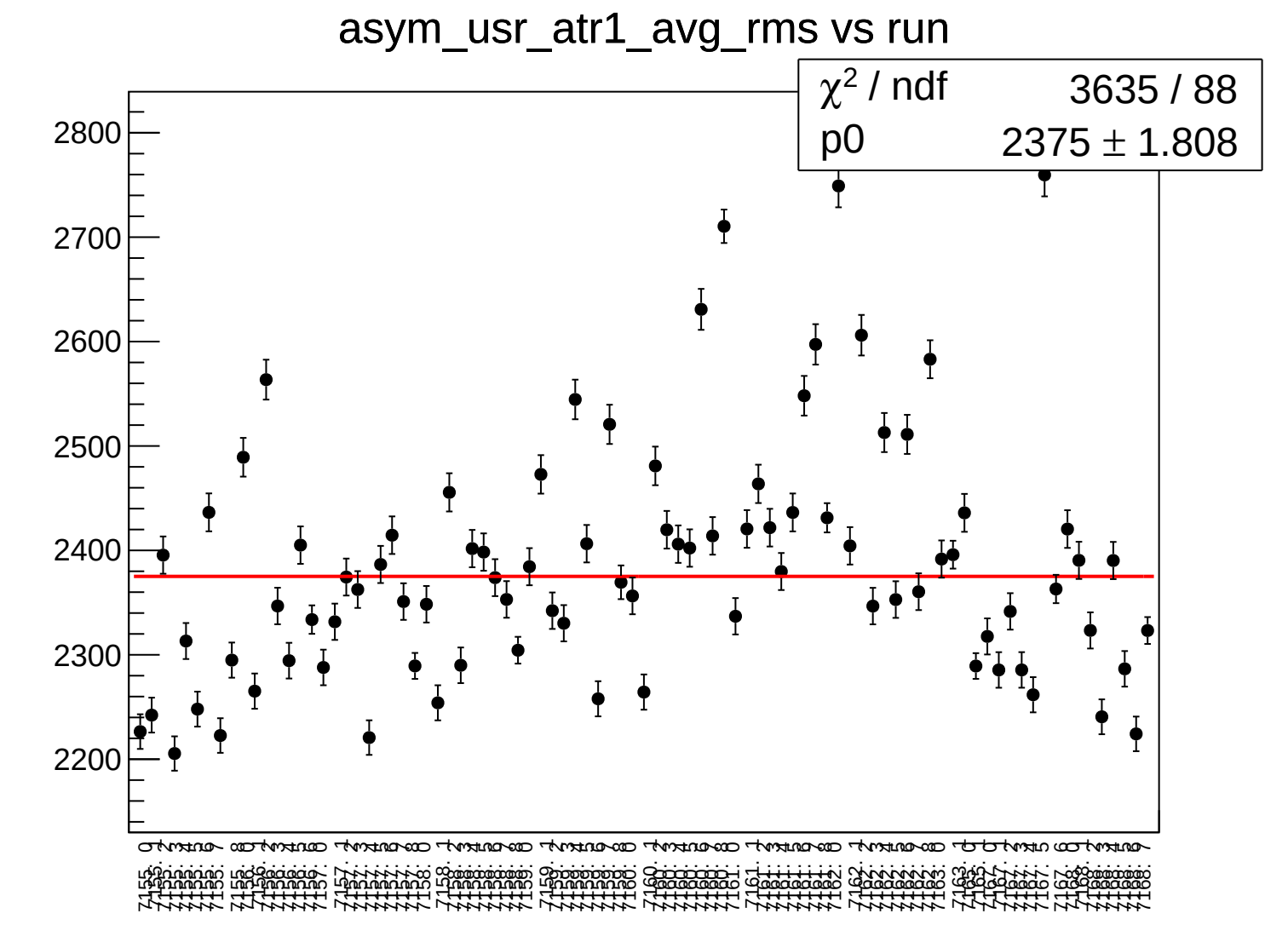

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 69 / 88
p0 −284.8 ± 1877
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −6.058
Std Dev 0
2
1
0
−1
−2

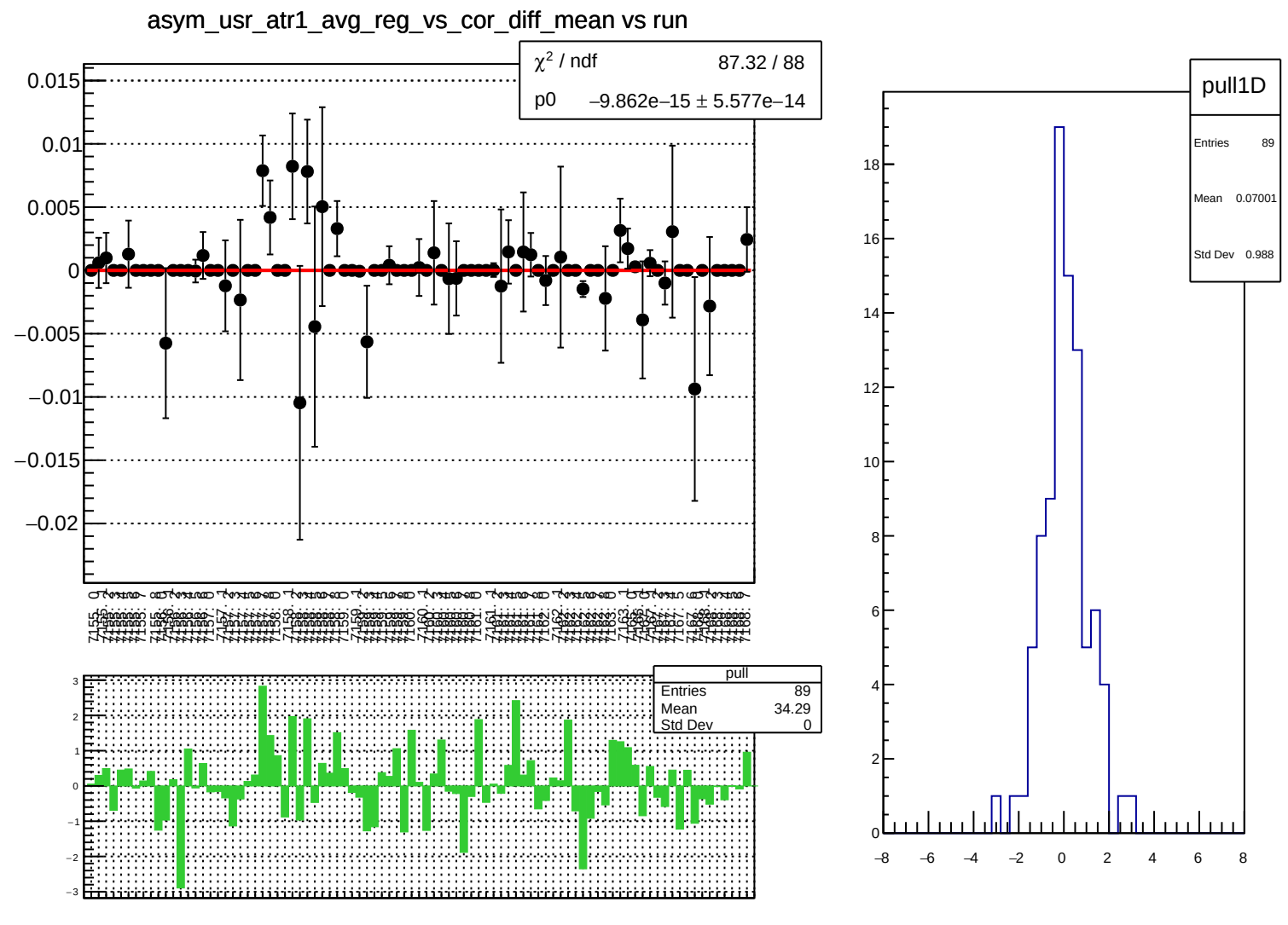

pull1D
Entries 89
Mean 0.02355
Std Dev 0.8802
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

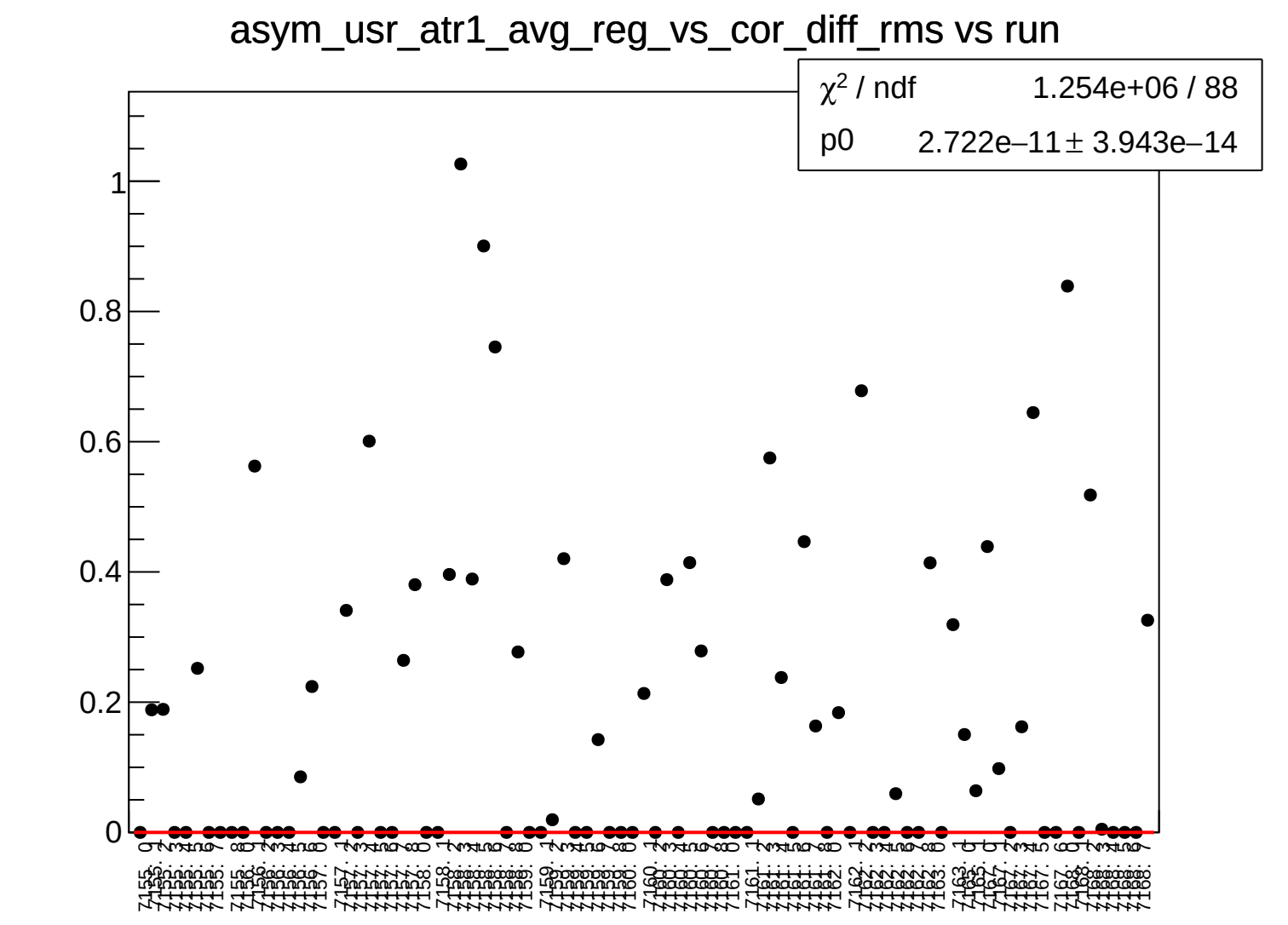

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 8822 / 88
p0 1741 ± 1.327
2100
2000
1900
1800
1700
1600
1500

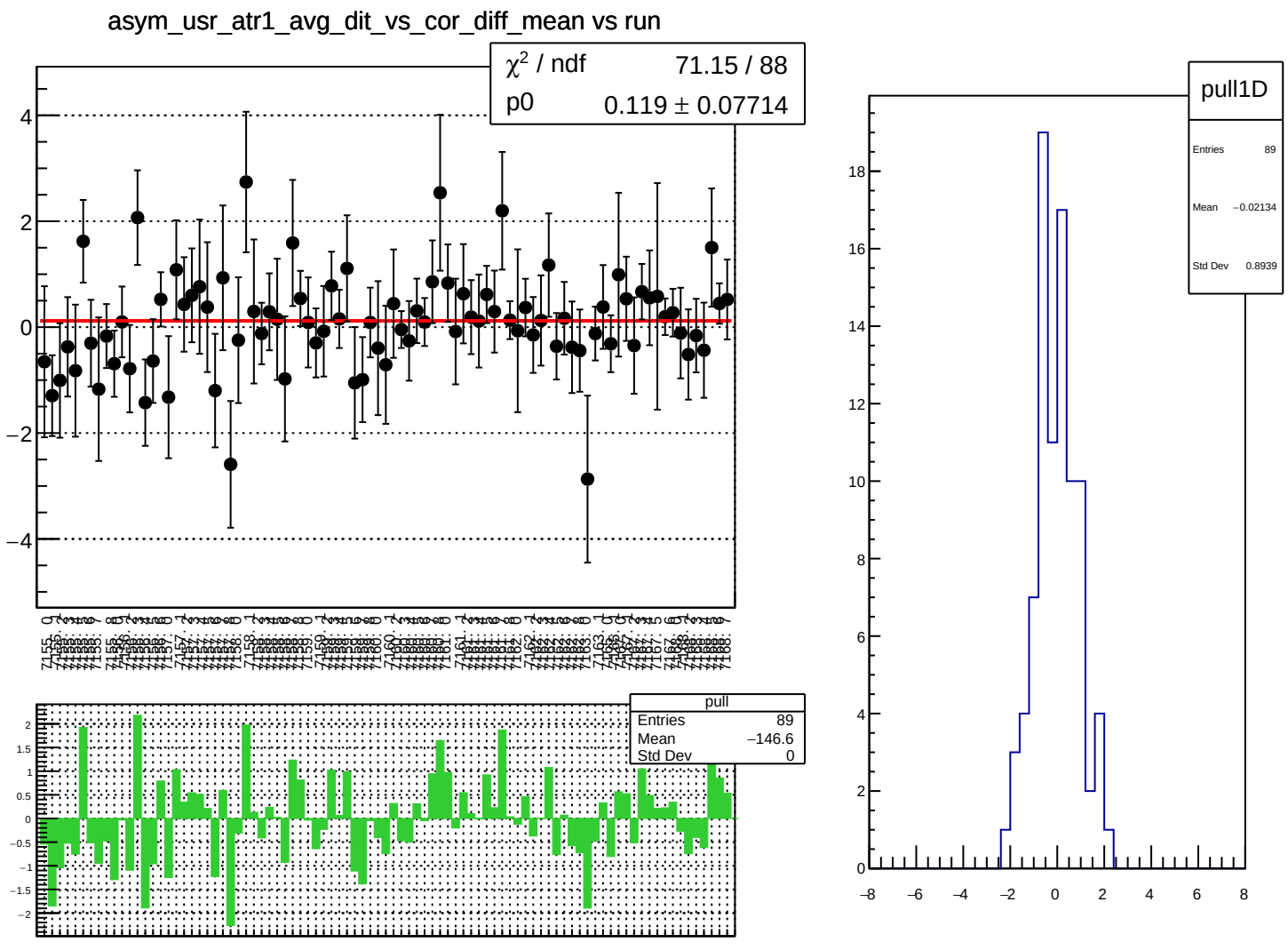

asym_usr_atr1_avg_mean vs run
χ² / ndf 80.64 / 88
p0 −3429 ± 2556
pull
Entries 89
Mean 190.3
Std Dev 0

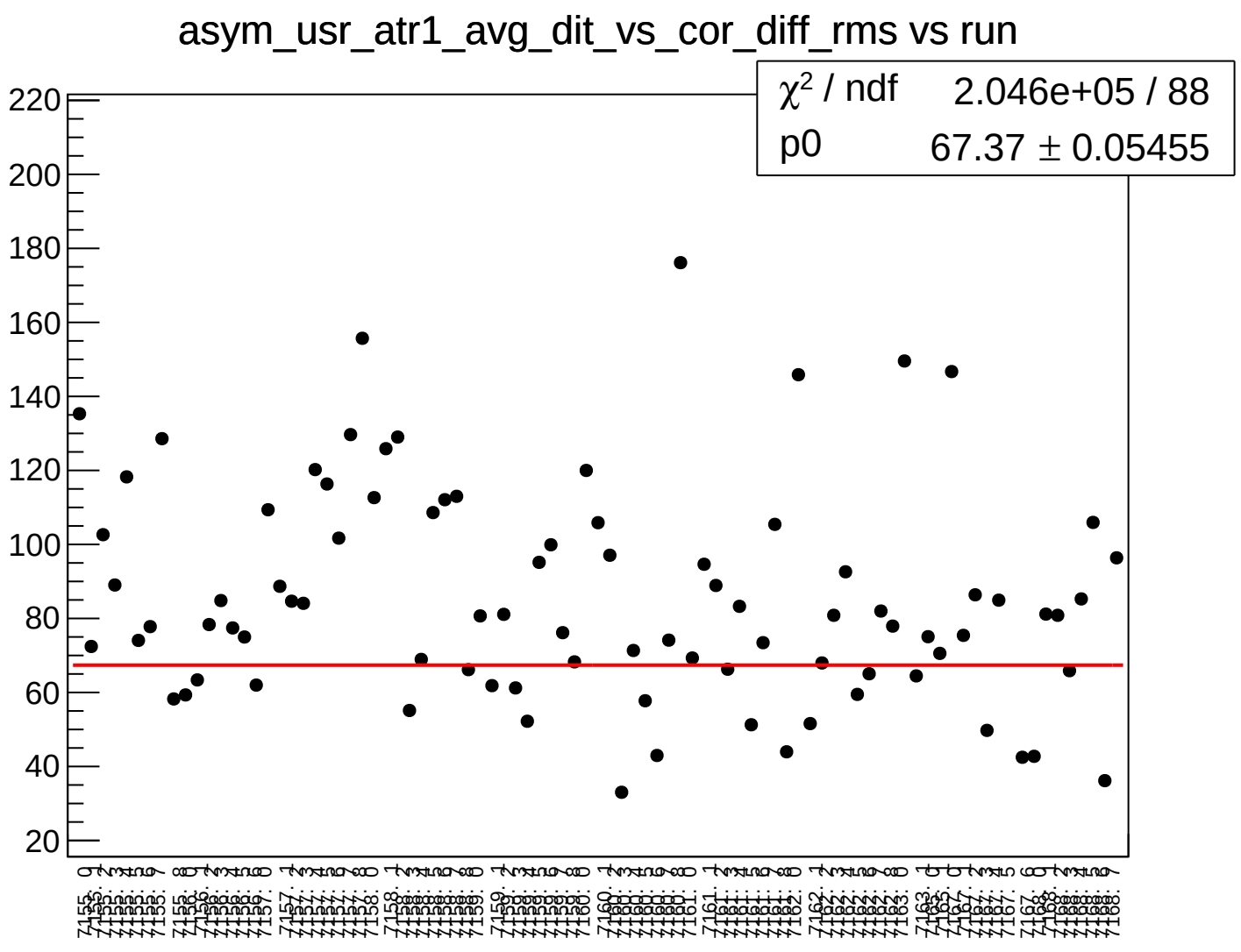

pull1D
Entries 89
Mean −0.01578
Std Dev 0.9517

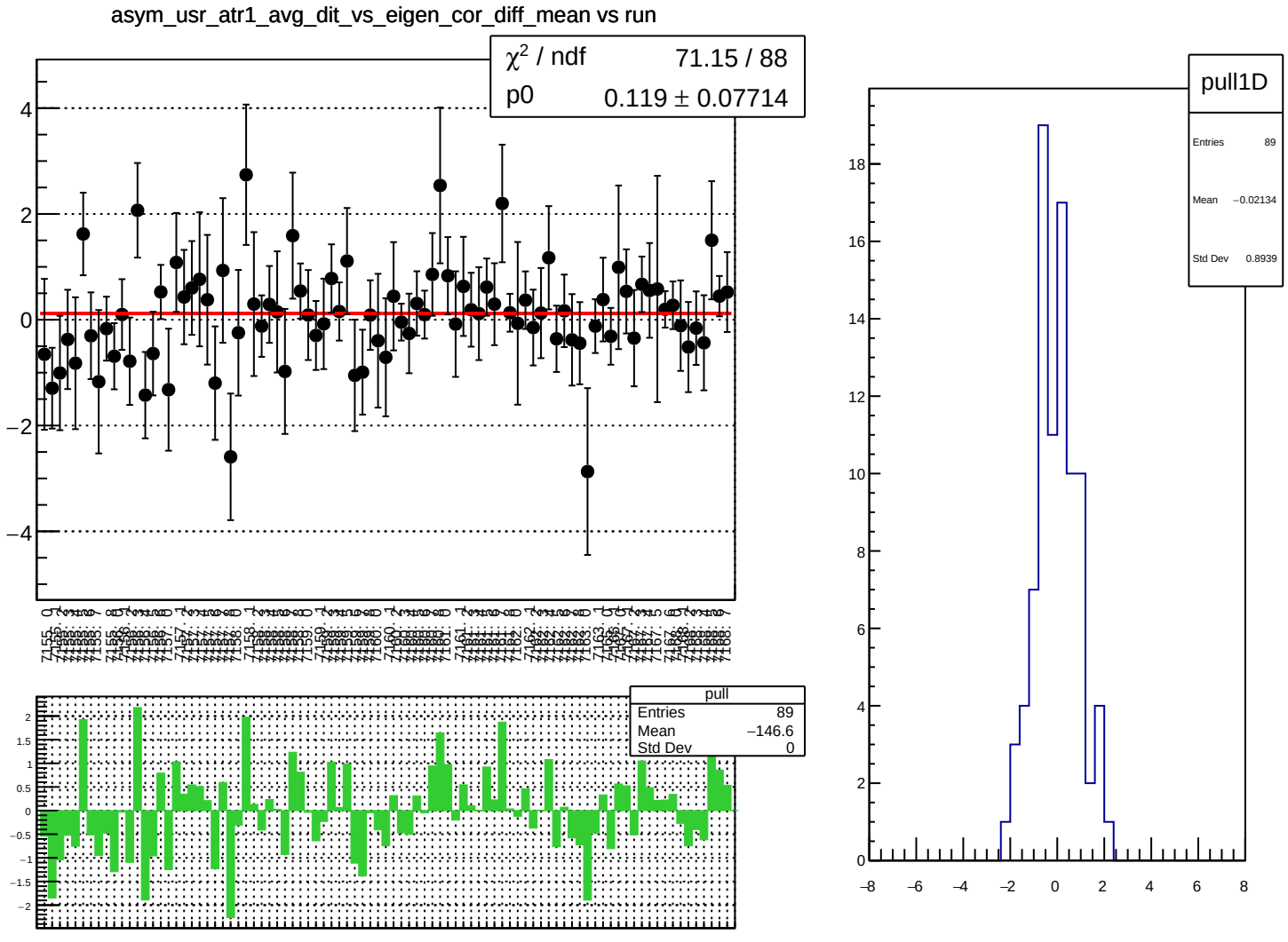

asym_usr_atr1_avg_rms vs run
χ^2 / ndf 3635 / 88
p0 2375 ± 1.808
2800
2700
2600
2500
2400
2300
2200

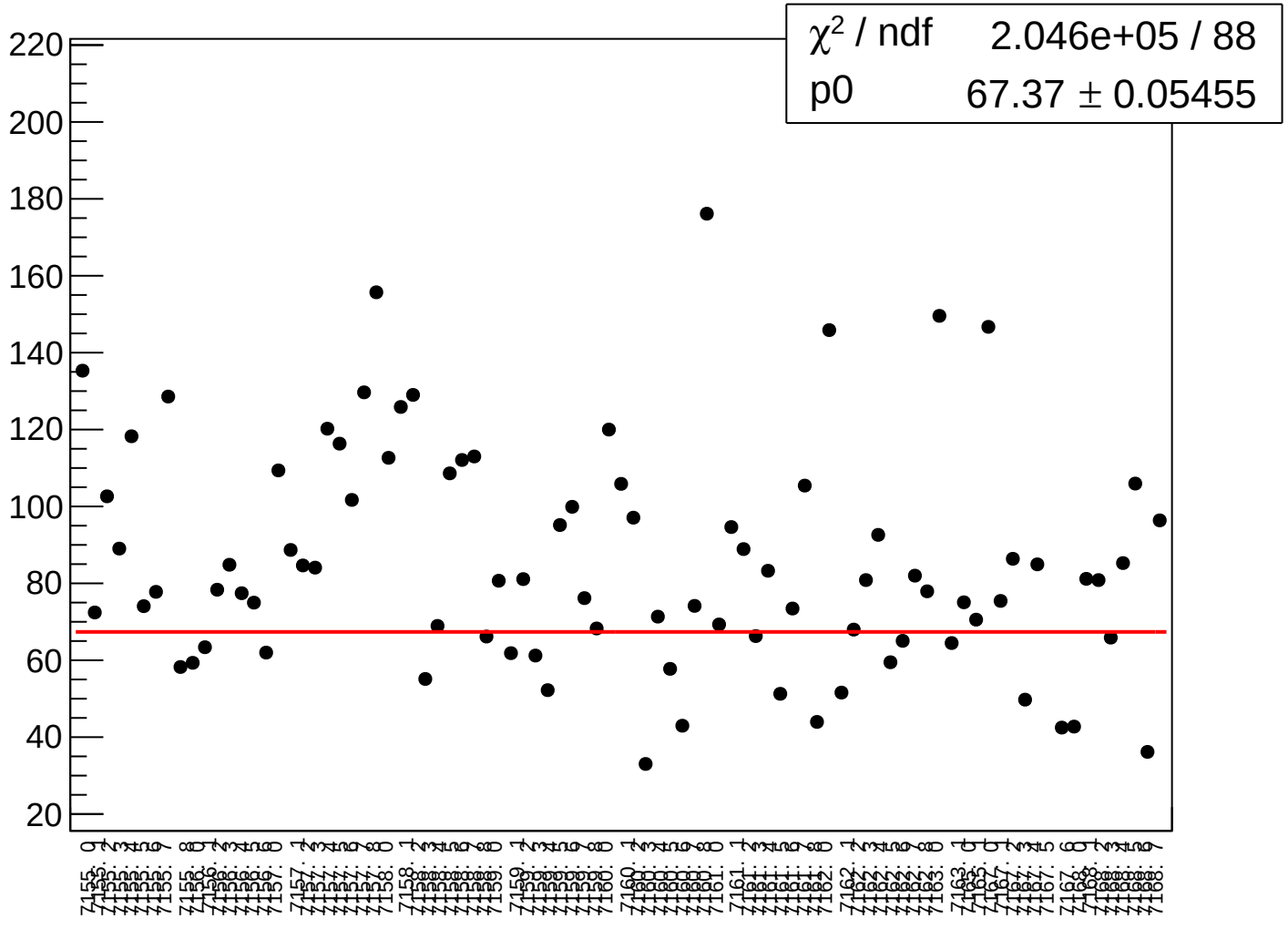

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.32 / 88
p0 −9.862e−15 ± 5.577e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 89
Mean 34.29
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.07001
Std Dev 0.988
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

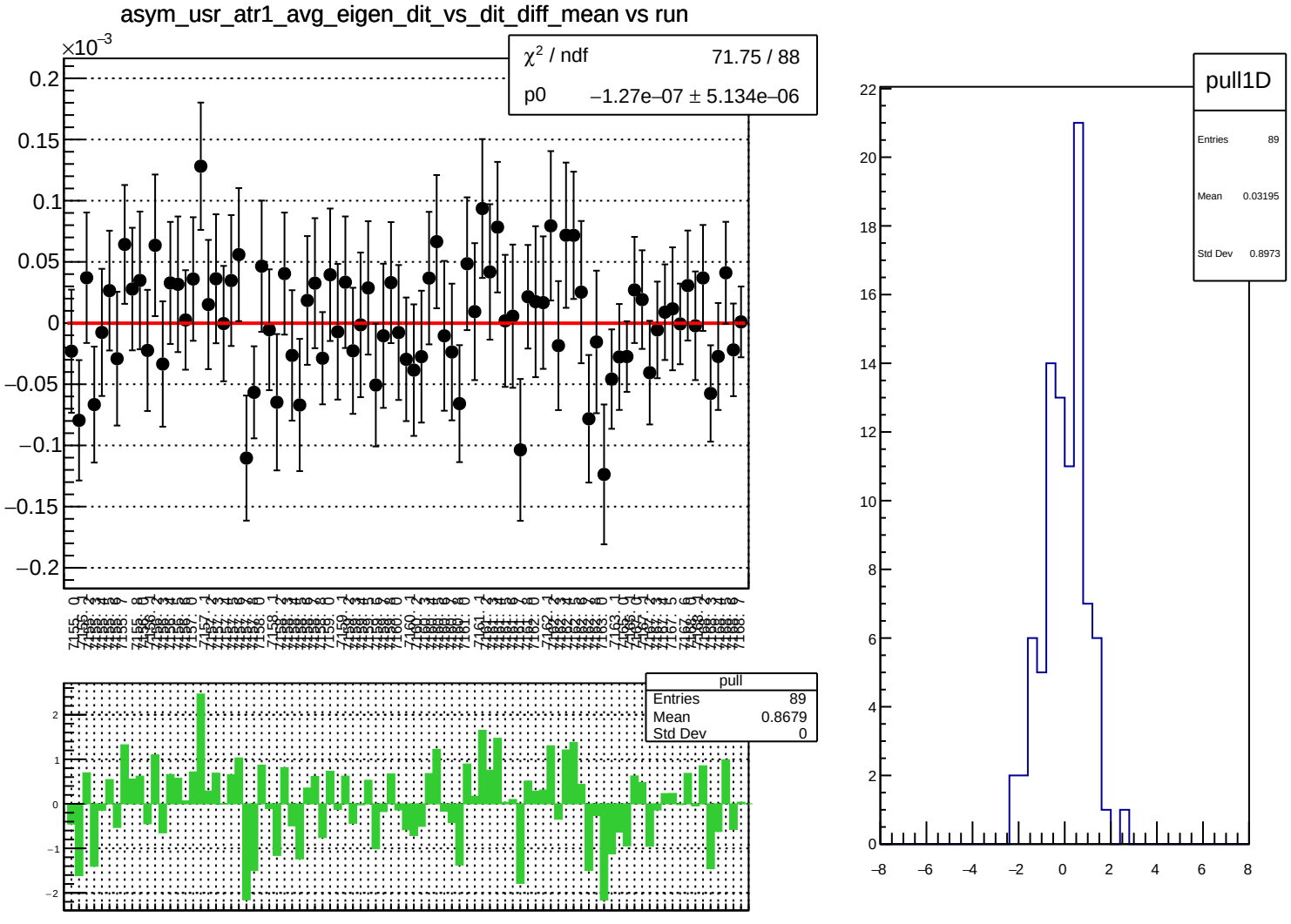

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.254e+06 / 88
p0 2.722e−11 ± 3.943e−14
1
0.8
0.6
0.4
0.2
0

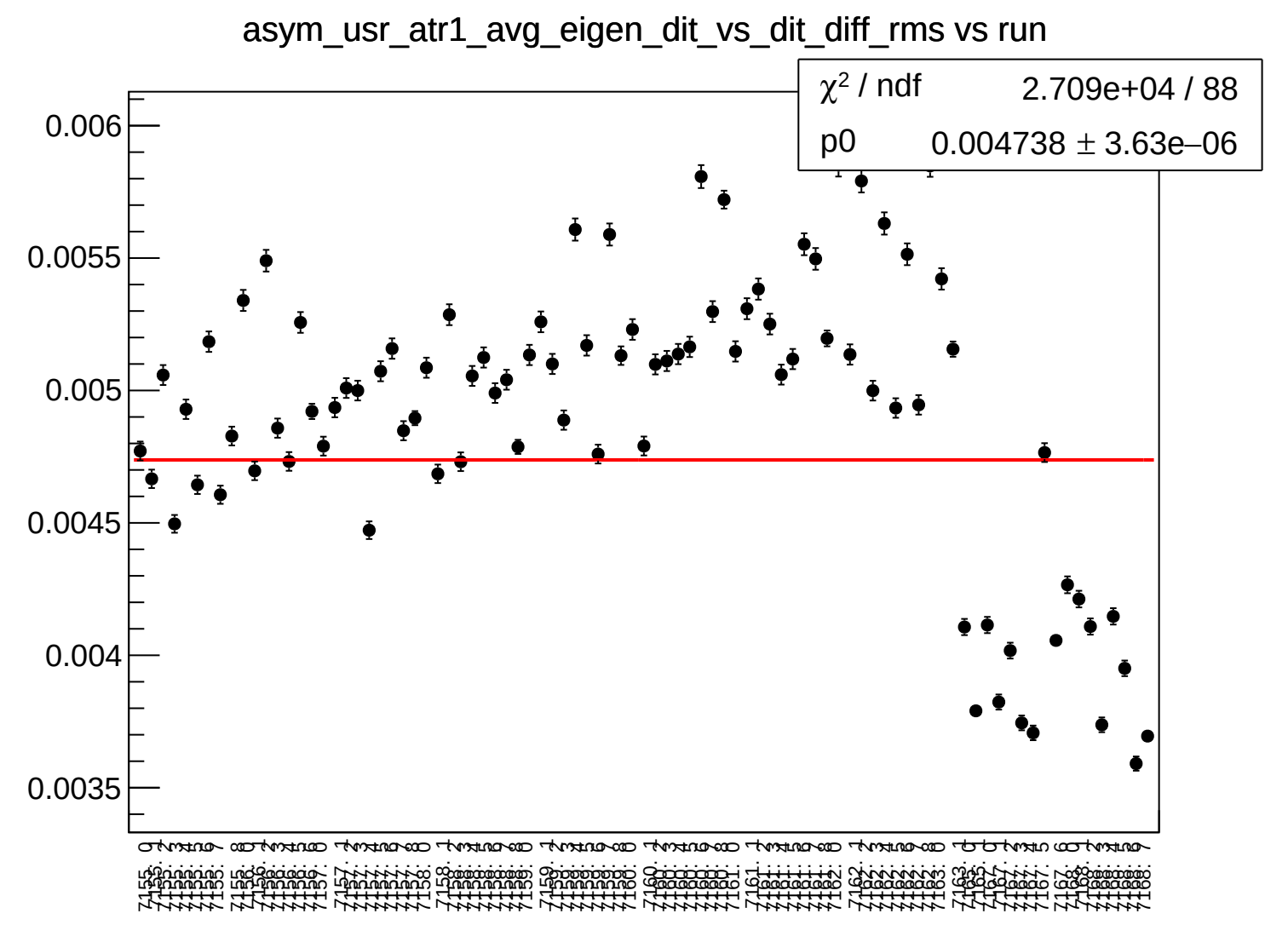

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.15 / 88
p0 0.119 ± 0.07714
pull
Entries 89
Mean −146.6
Std Dev 0
pull1D
Entries 89
Mean −0.02134
Std Dev 0.8939

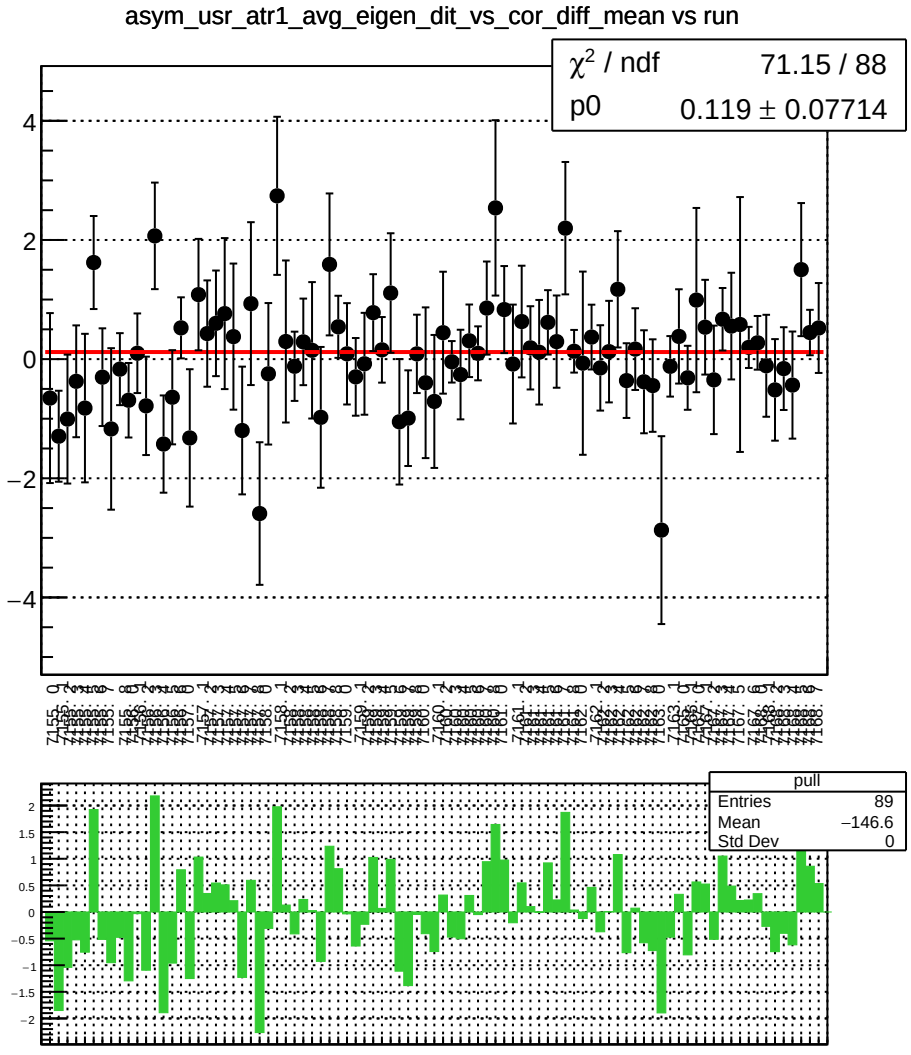

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 67.37 ± 0.05455
220
200
180
160
140
120
100
80
60
40
20

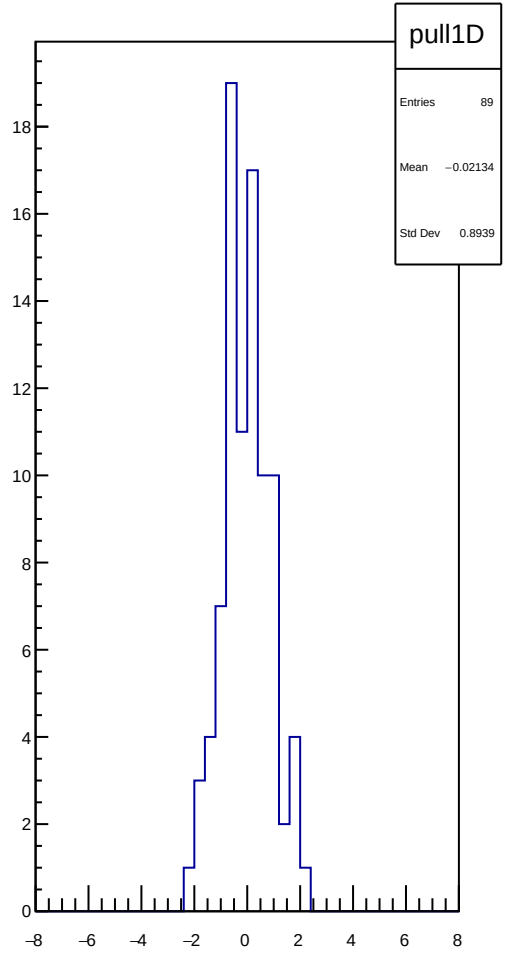

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.15 / 88
p0 0.119 ± 0.07714
pull
Entries 89
Mean −146.6
Std Dev 0
pull1D
Entries 89
Mean −0.02134
Std Dev 0.8939

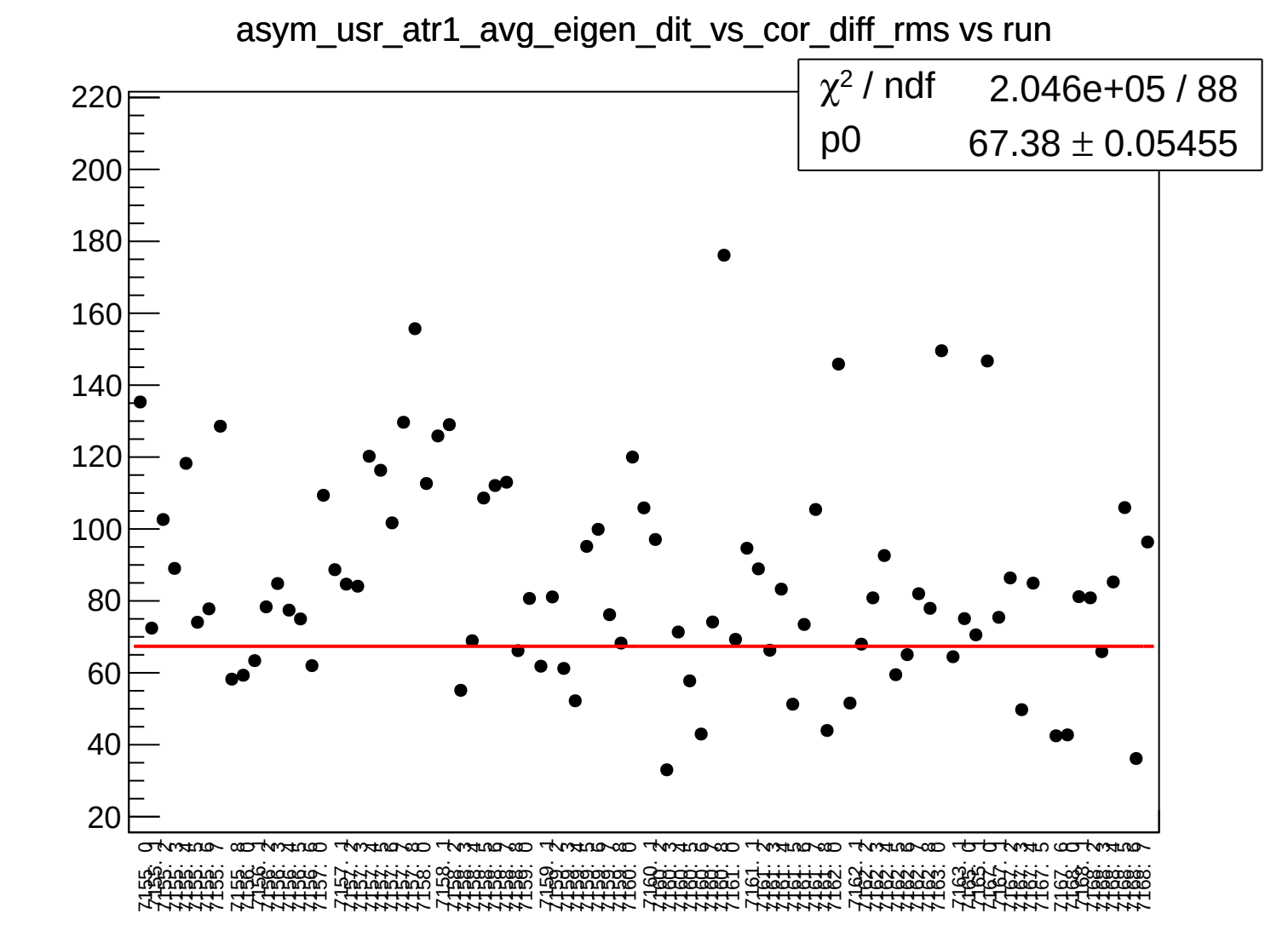

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 67.37 ± 0.05455
220
200
180
160
140
120
100
80
60
40
20

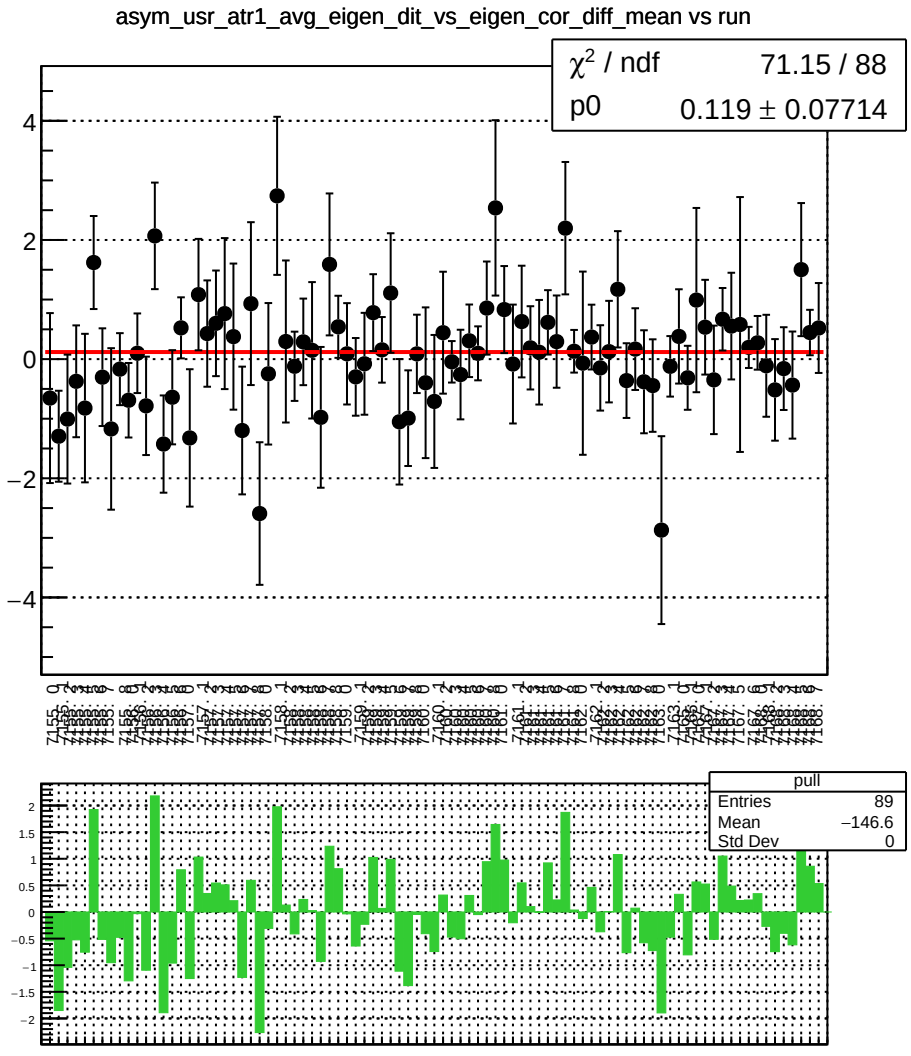

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.75 / 88
p0 −1.27e−07 ± 5.134e−06
pull
Entries 89
Mean 0.8679
Std Dev 0
pull1D
Entries 89
Mean 0.03195
Std Dev 0.8973

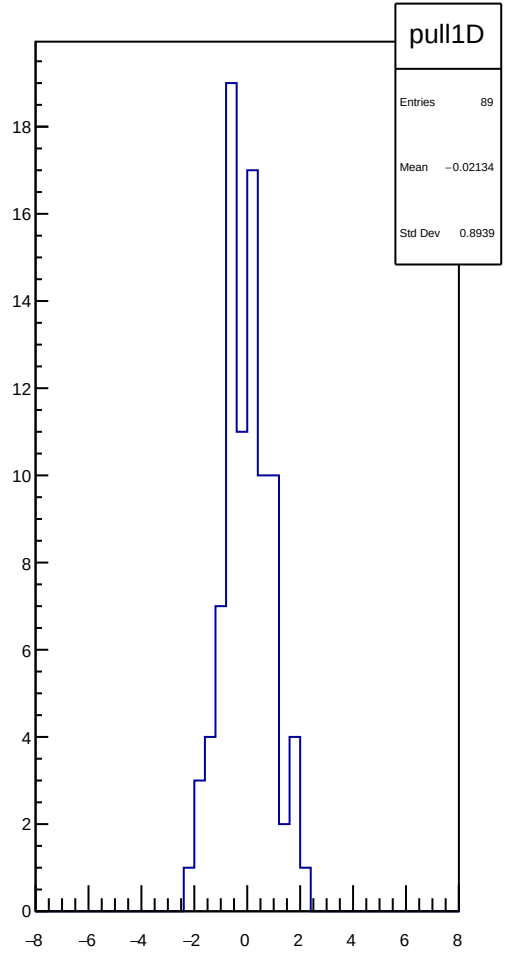

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.709e+04 / 88
p0 0.004738 ± 3.63e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035

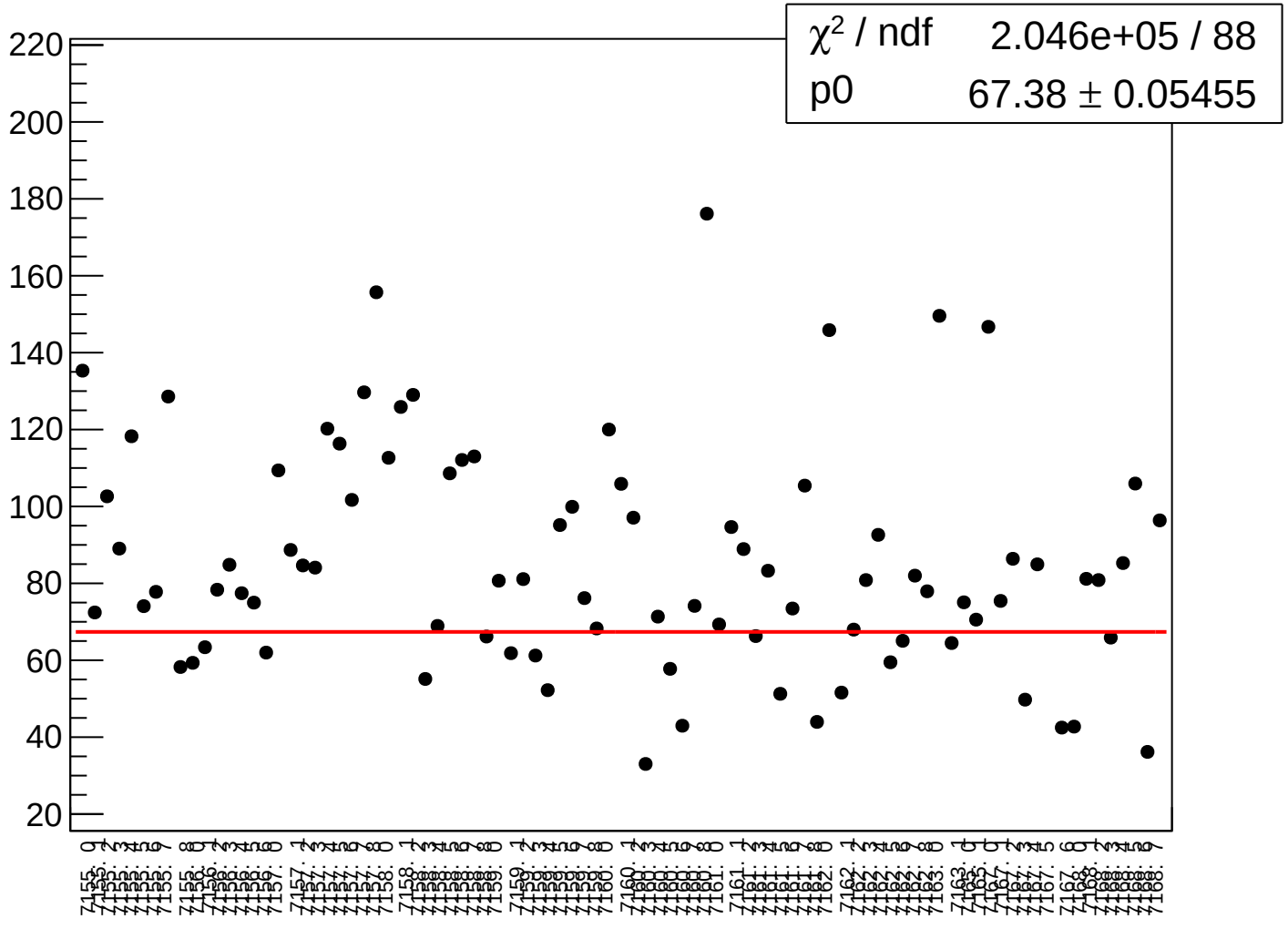

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.15 / 88
p0 0.119 ± 0.07714
pull
Entries 89
Mean −146.6
Std Dev 0

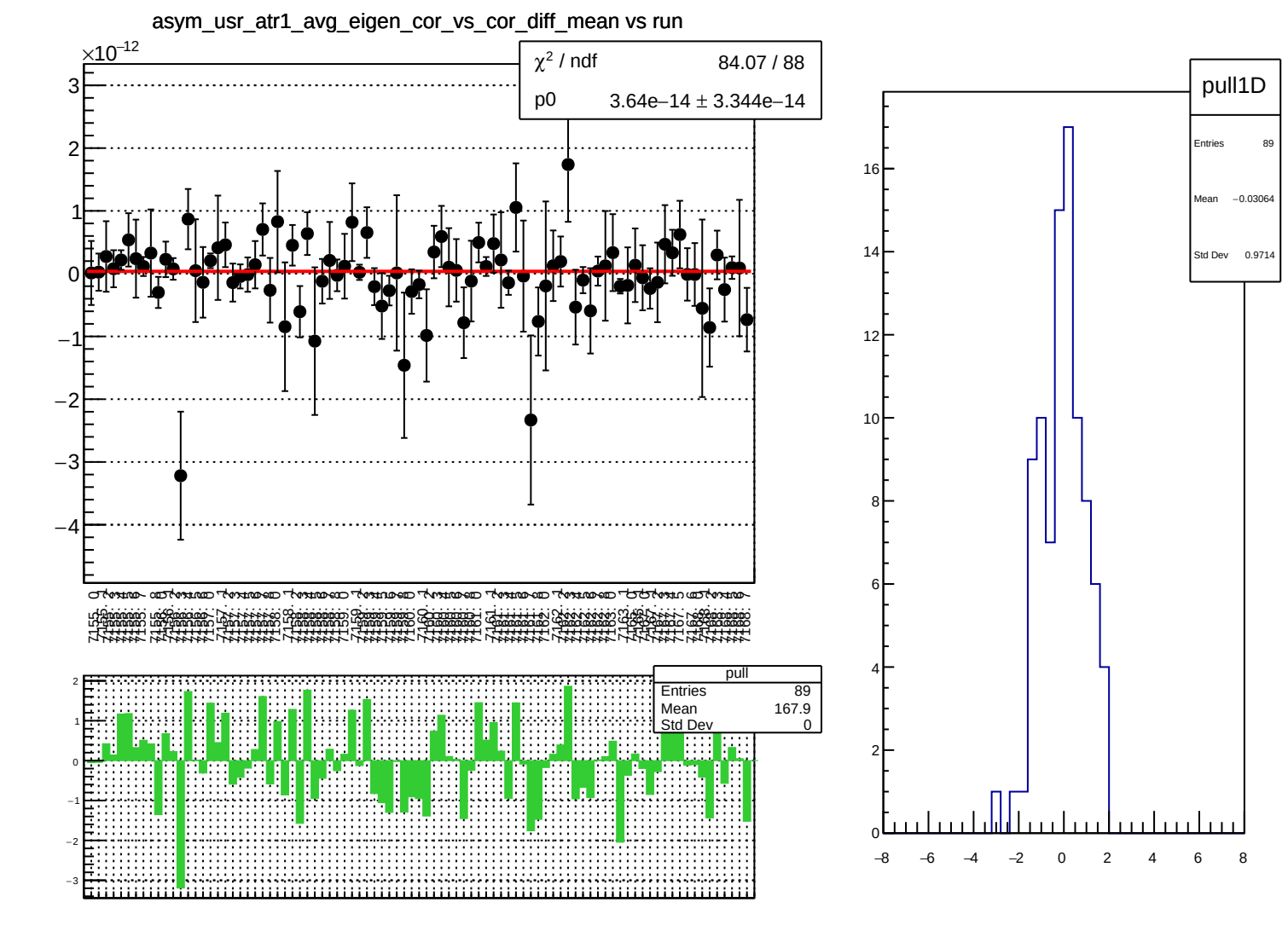

pull1D
Entries 89
Mean −0.02134
Std Dev 0.8939

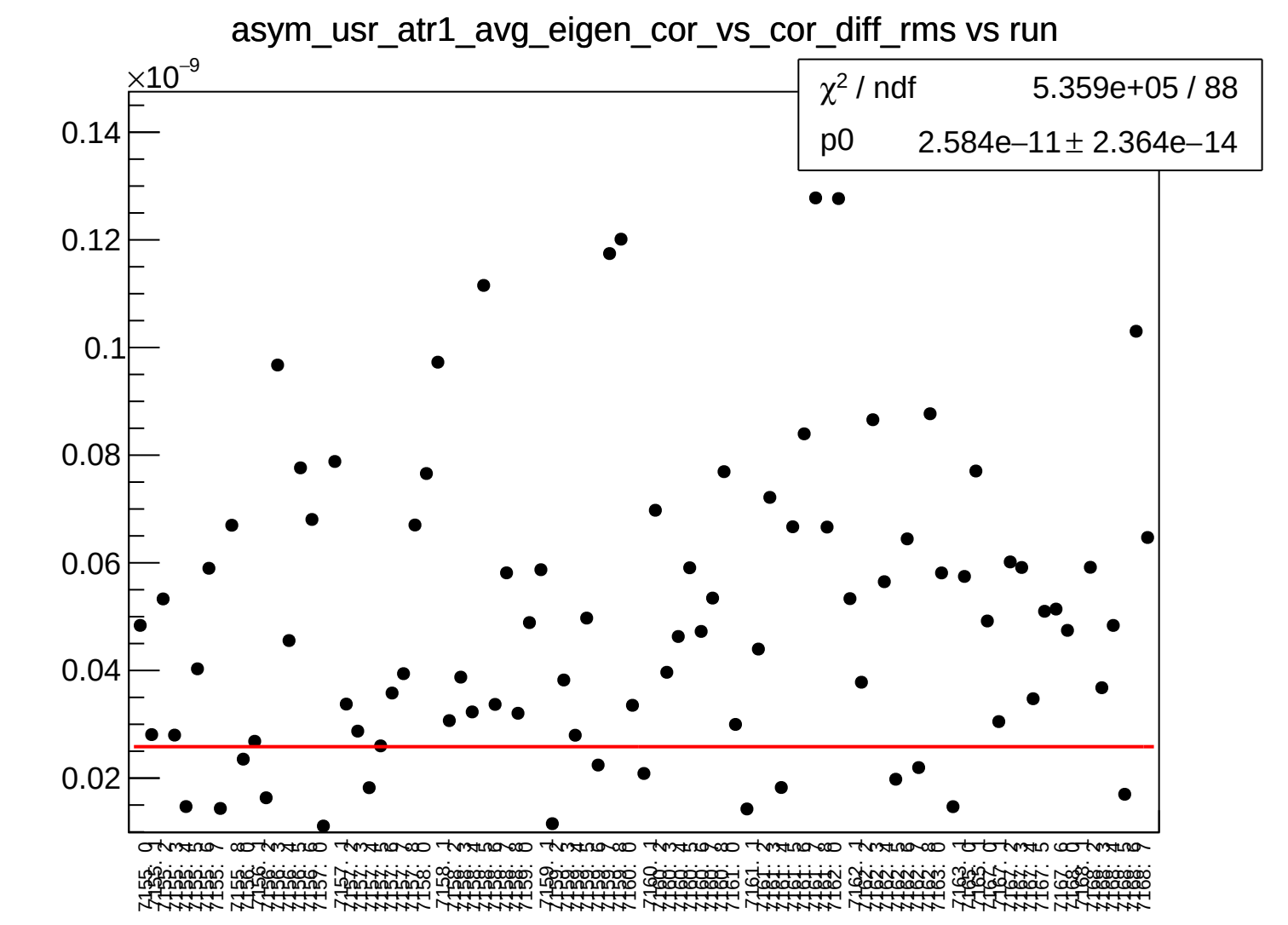

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.046e+05 / 88
p0 67.38 ± 0.05455
220
200
180
160
140
120
100
80
60
40
20

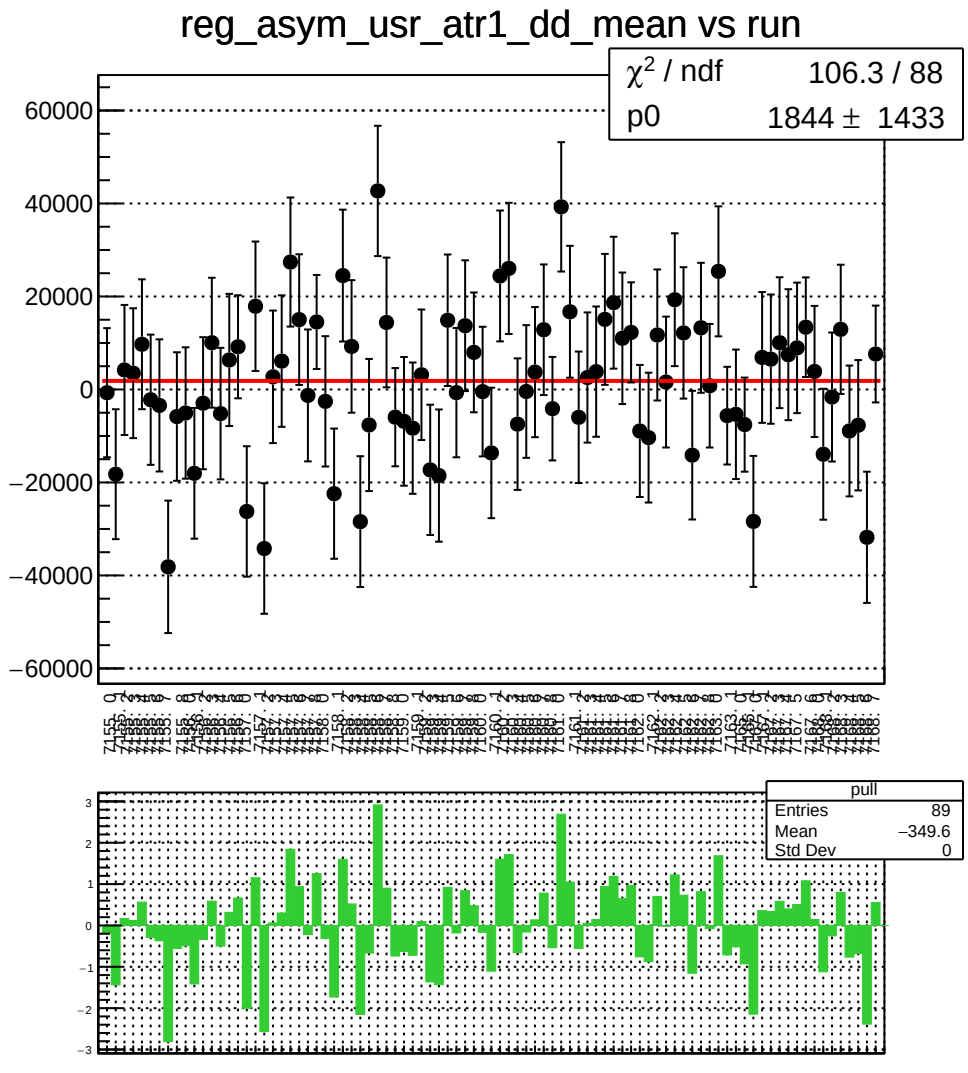

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.15 / 88
p0 0.119 ± 0.07714
pull
Entries 89
Mean −146.6
Std Dev 0

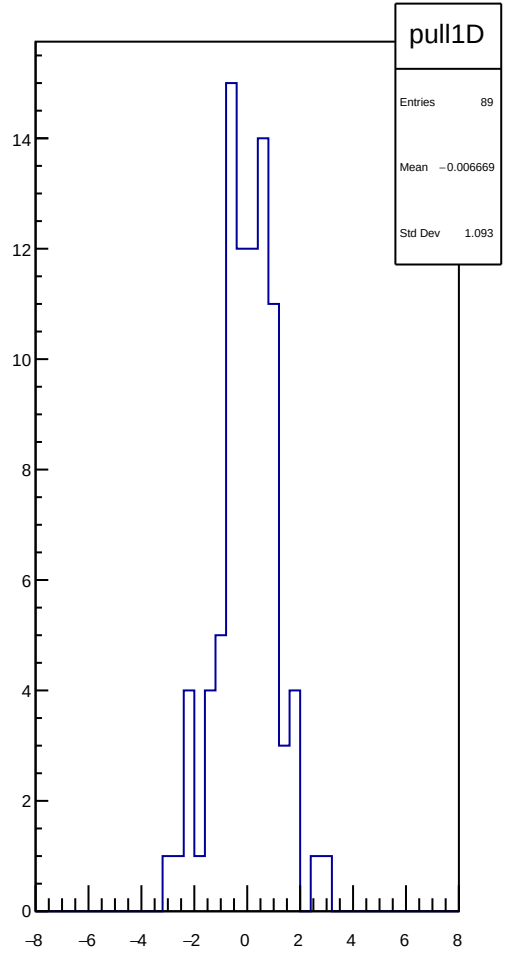

pull1D
Entries 89
Mean −0.02134
Std Dev 0.8939

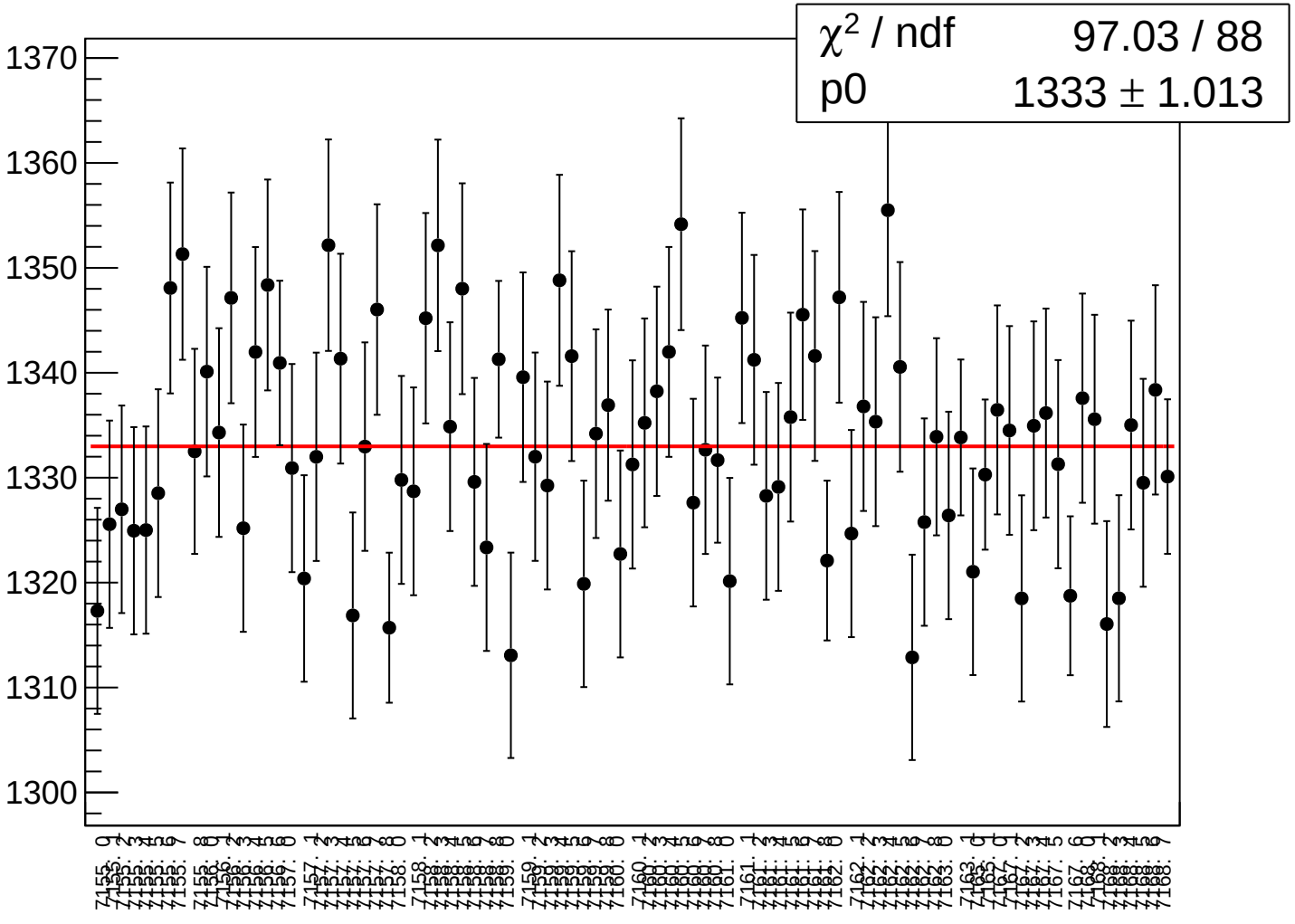

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.046e+05 / 88
p0 67.38 ± 0.05455
220
200
180
160
140
120
100
80
60
40
20

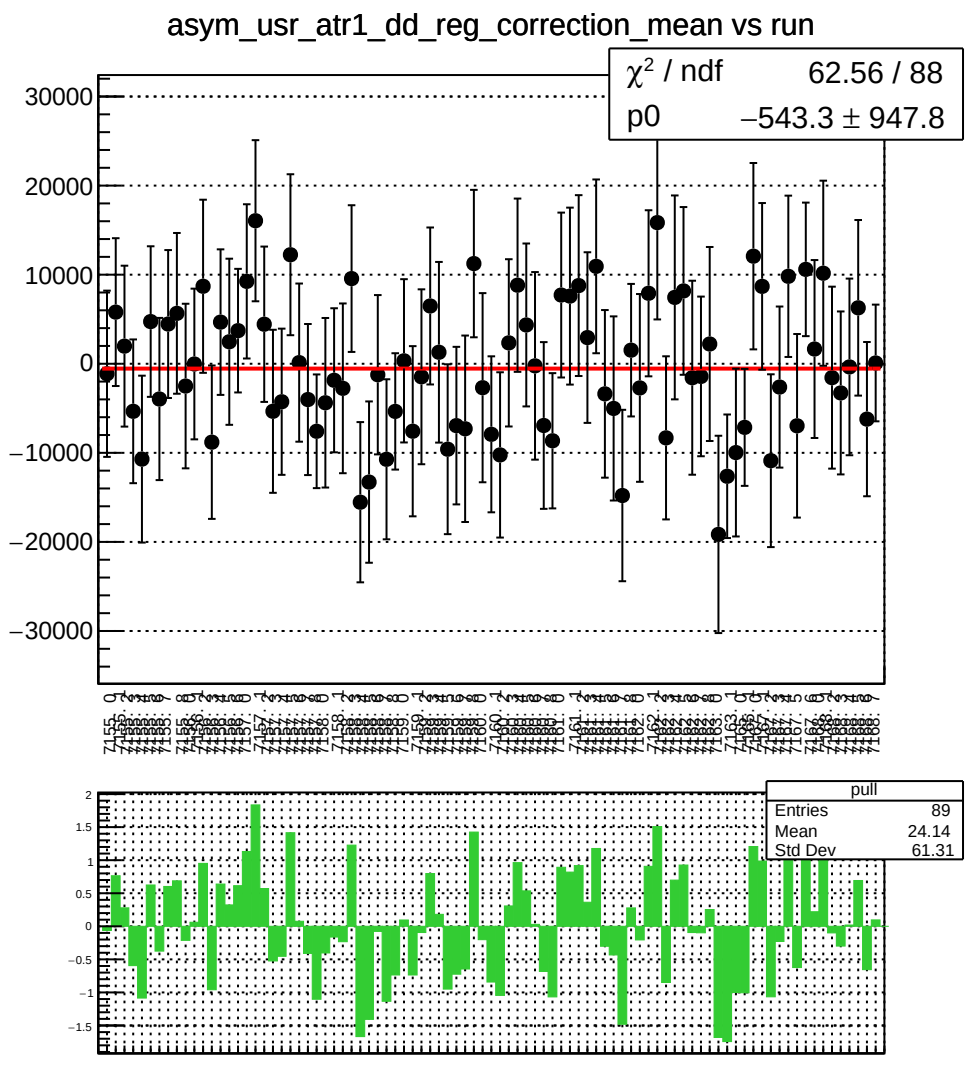

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.07 / 88
p0 3.64e−14 ± 3.344e−14
pull
Entries 89
Mean 167.9
Std Dev 0
pull1D
Entries 89
Mean −0.03064
Std Dev 0.9714

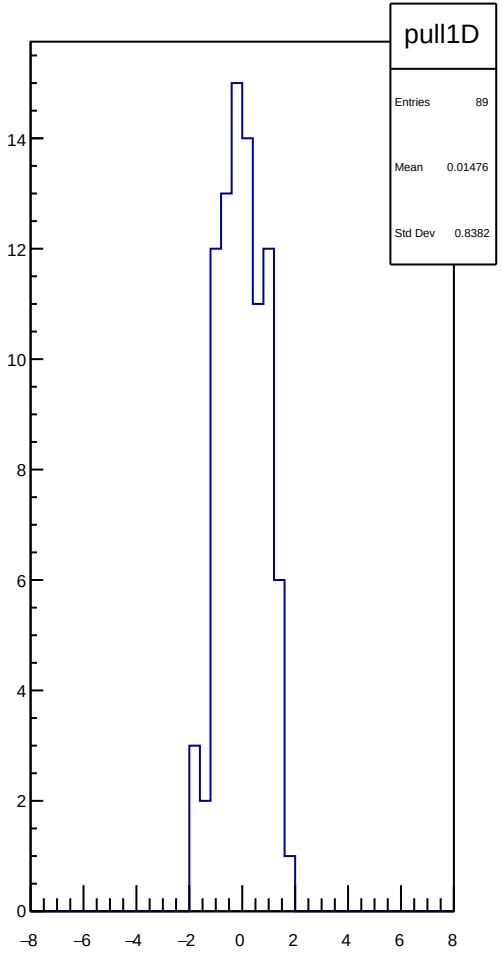

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.359e+05 / 88
p0 2.584e−11 ± 2.364e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

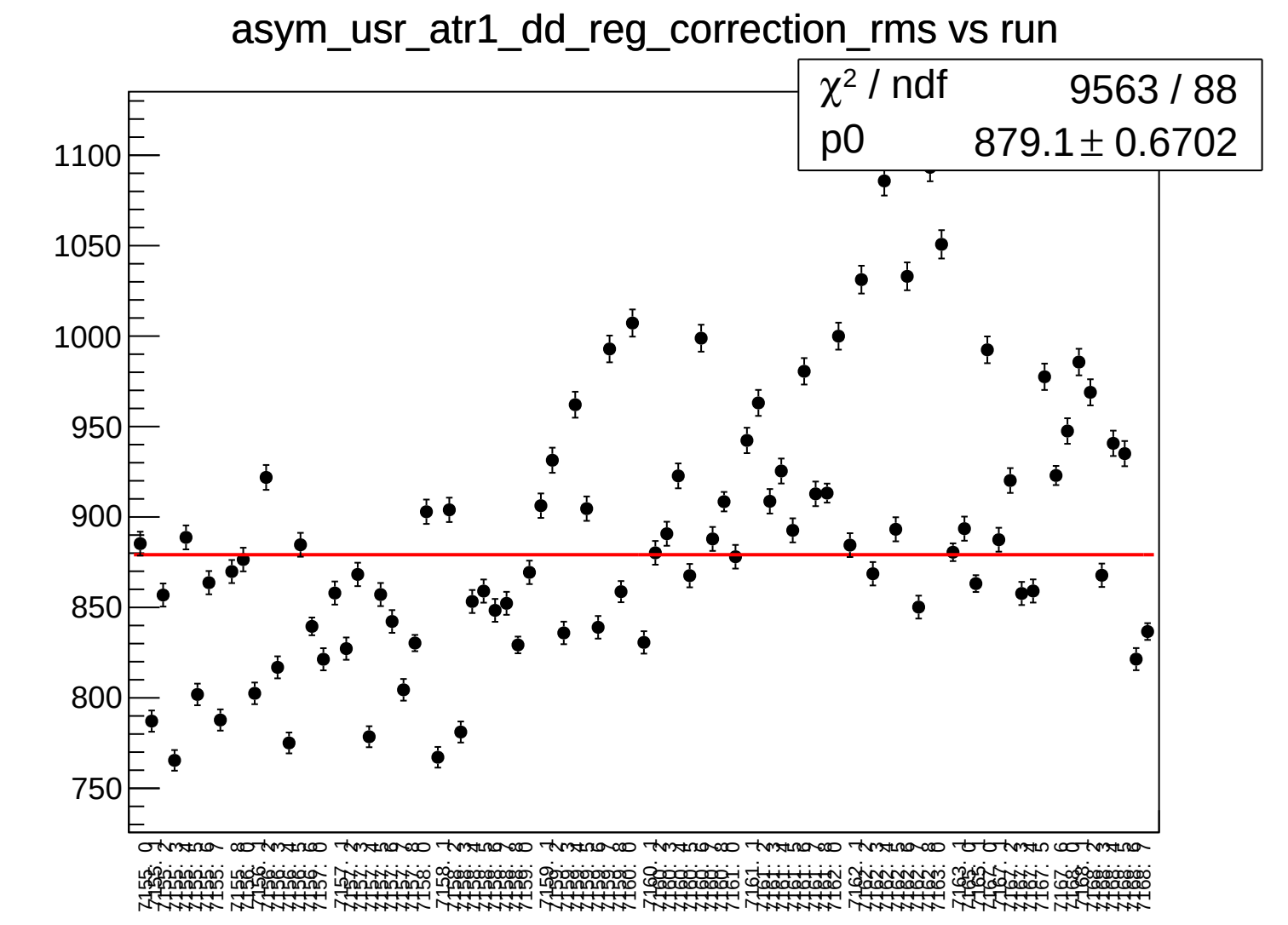

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.3 / 88
p0 1844 ± 1433
pull
Entries 89
Mean −349.6
Std Dev 0

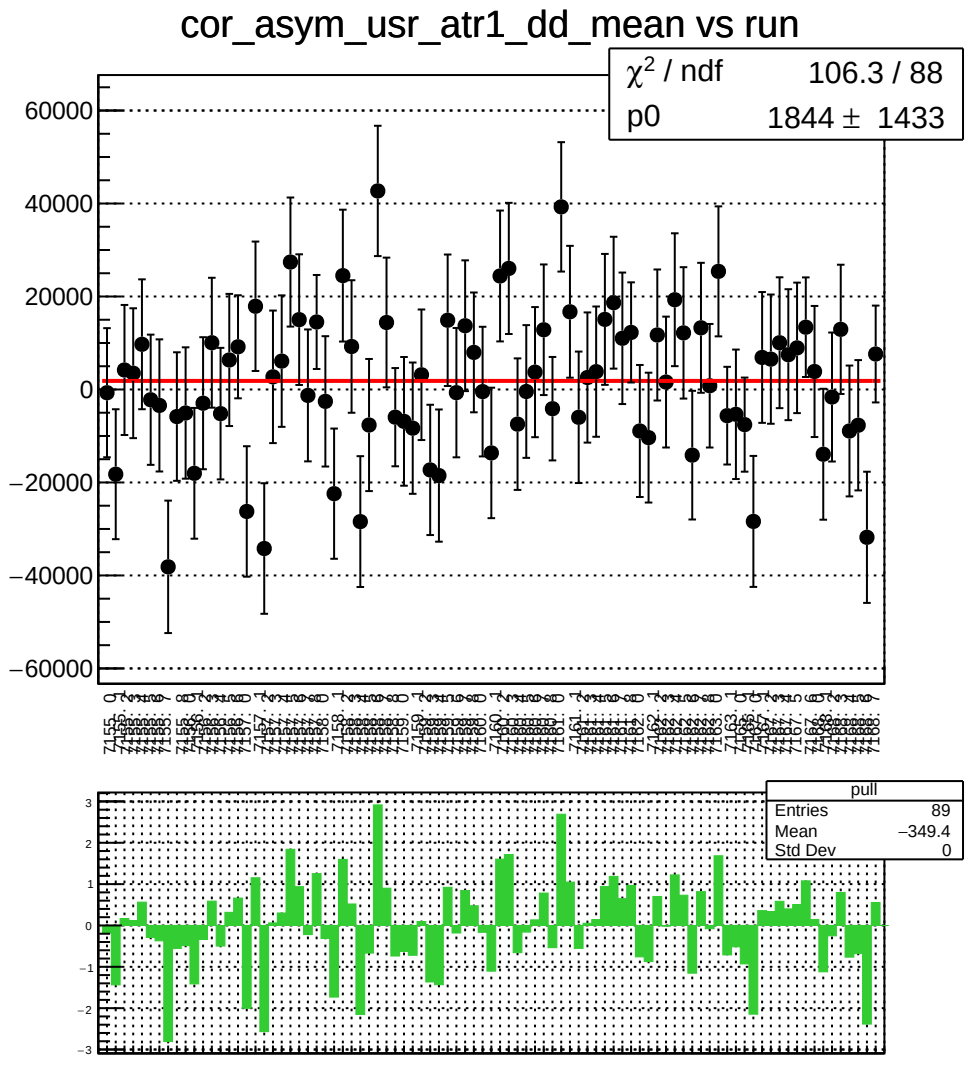

pull1D
Entries 89
Mean −0.006669
Std Dev 1.093

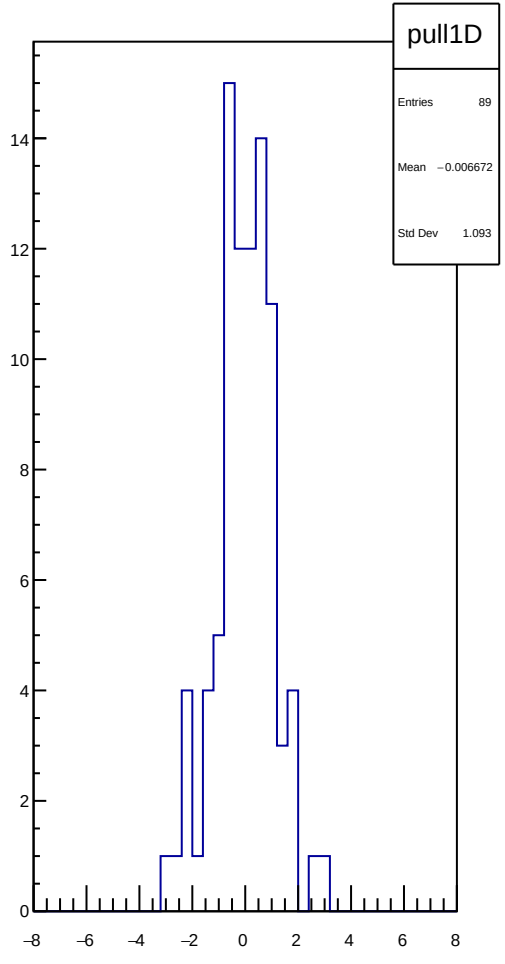

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 97.03 / 88
p0 1333 ± 1.013
1370
1360
1350
1340
1330
1320
1310
1300

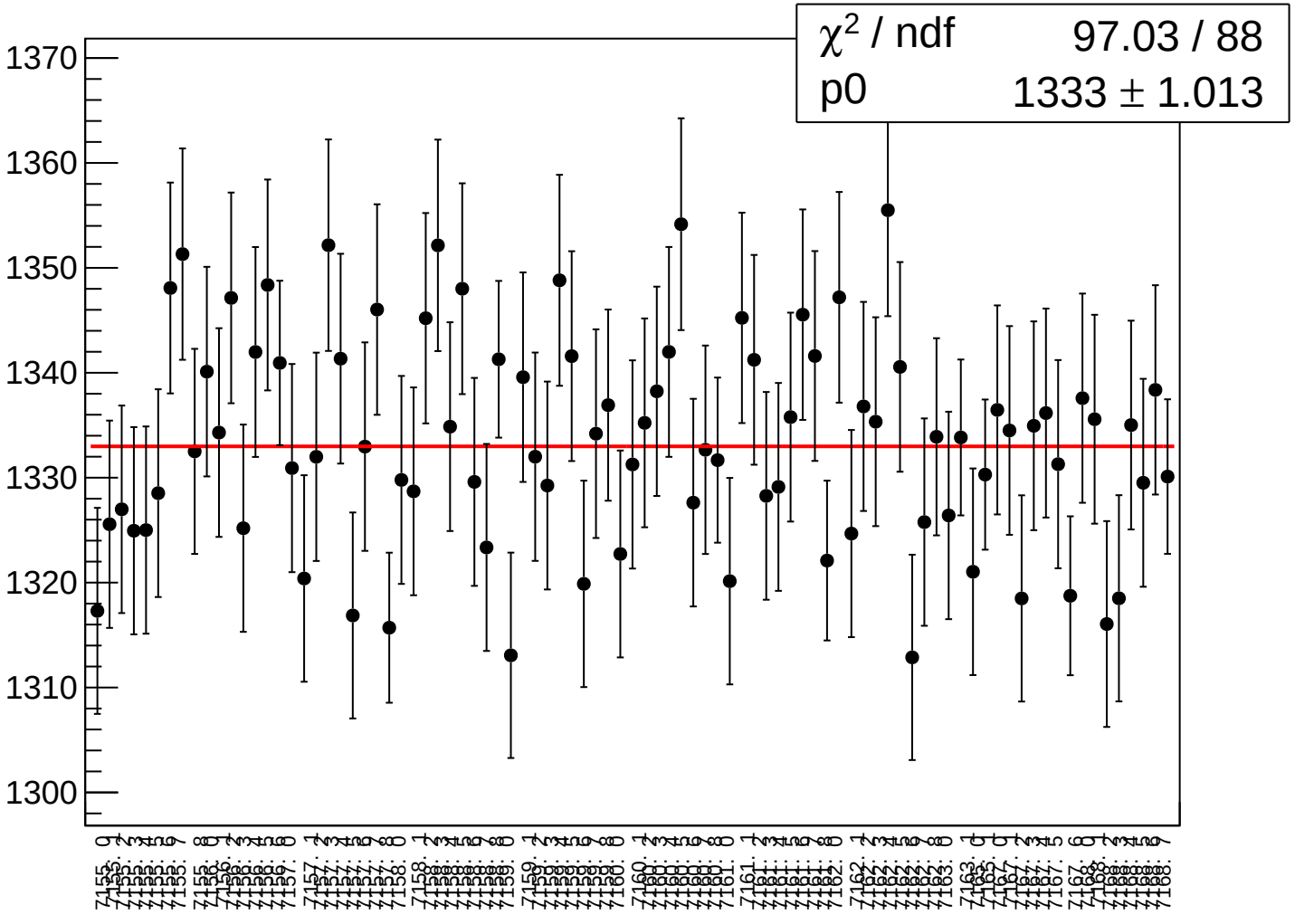

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 62.56 / 88
p0 −543.3 ± 947.8
pull
Entries 89
Mean 24.14
Std Dev 61.31

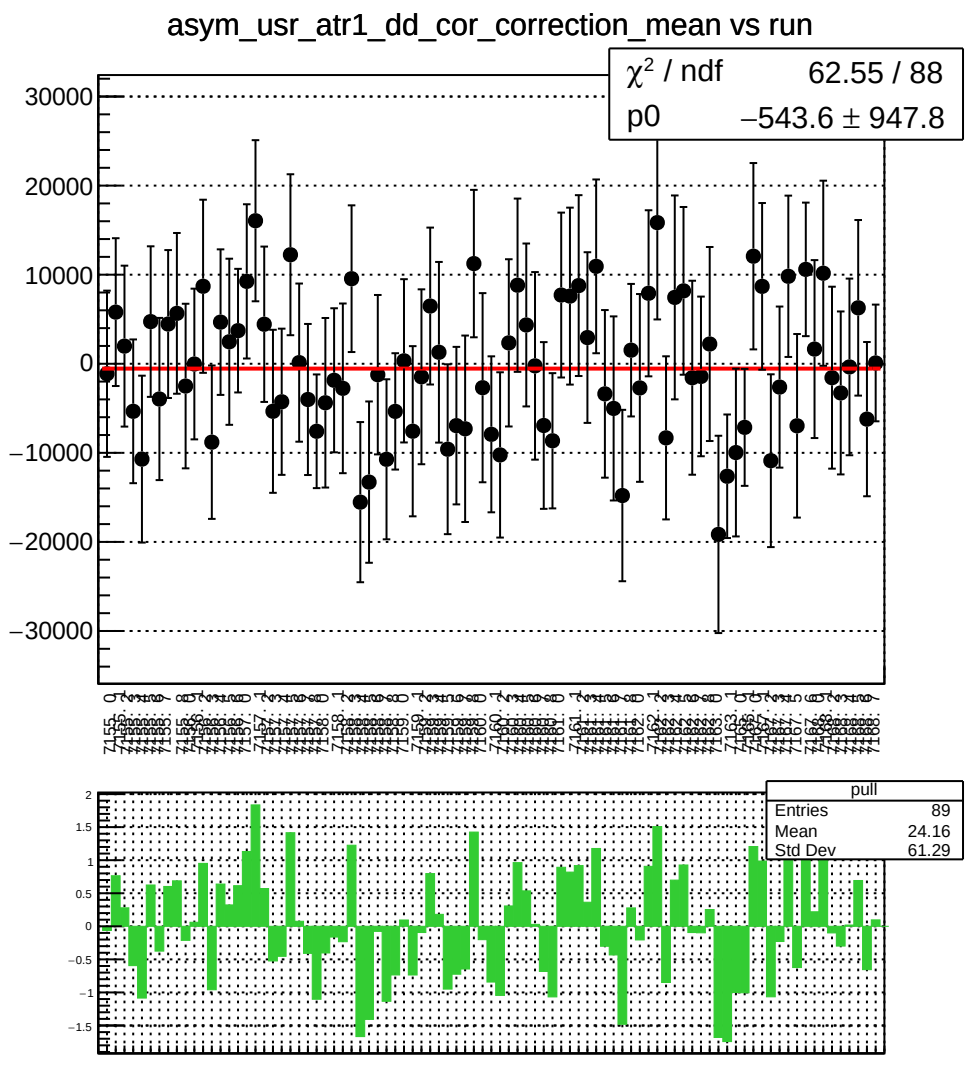

pull1D
Entries 89
Mean 0.01476
Std Dev 0.8382

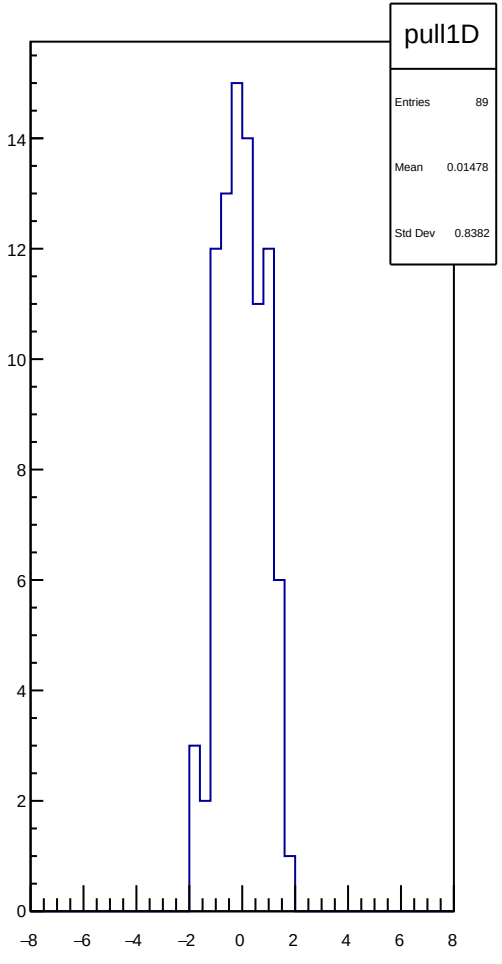

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 9563 / 88
p0 879.1 ± 0.6702
1100
1050
1000
950
900
850
800
750

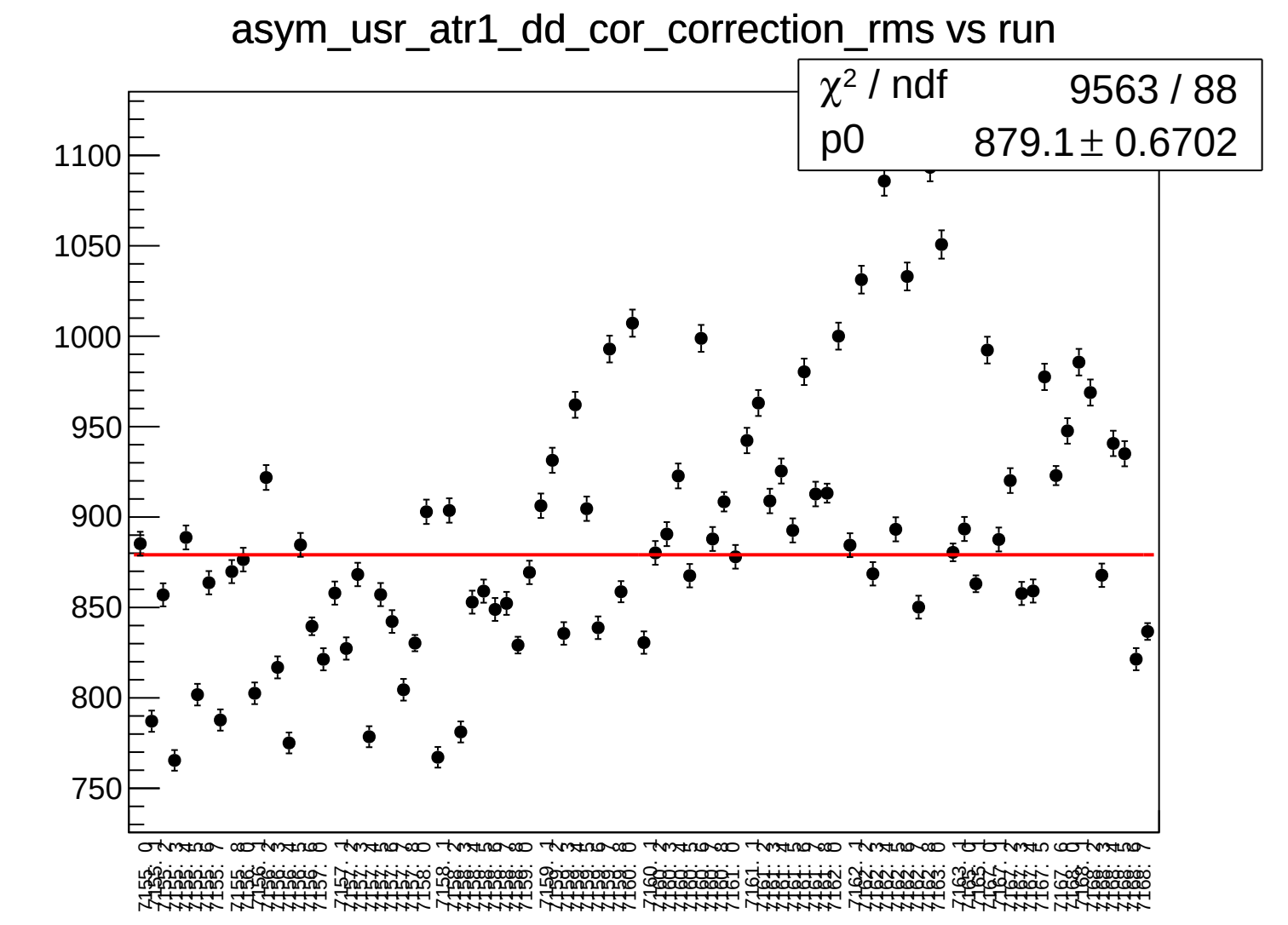

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.3 / 88
p0 1844 ± 1433
pull
Entries 89
Mean −349.4
Std Dev 0

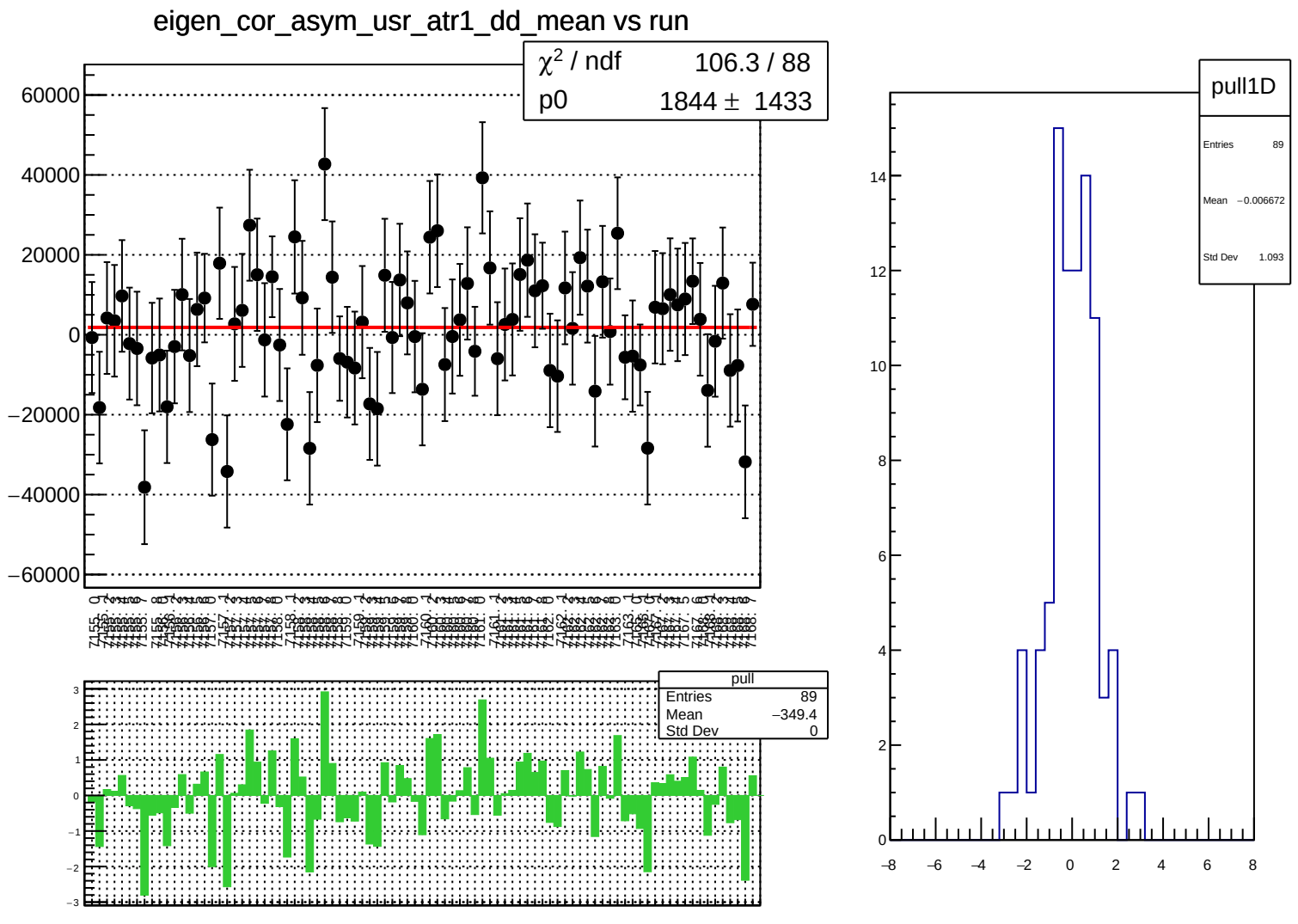

pull1D
Entries 89
Mean −0.006672
Std Dev 1.093

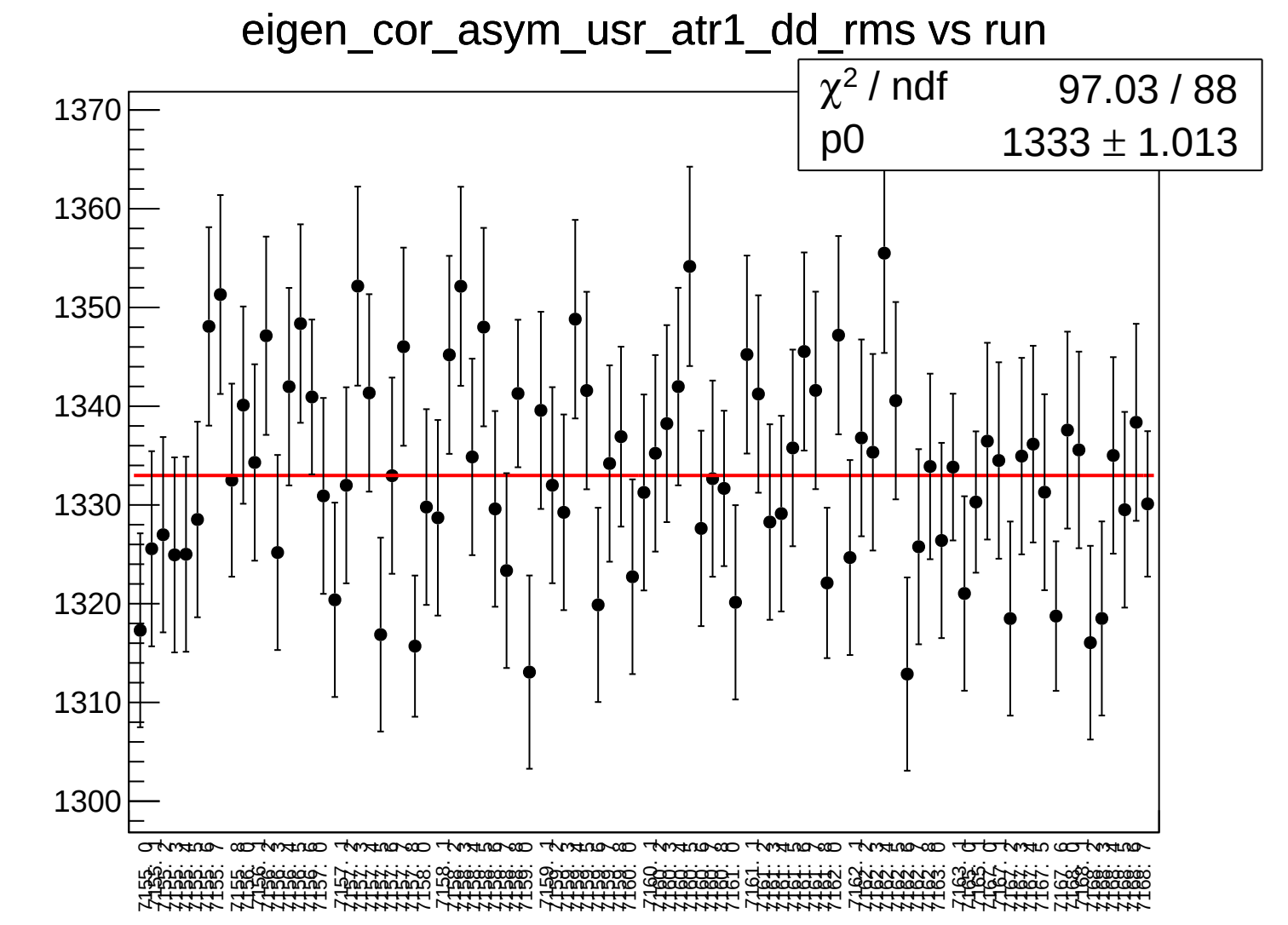

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 97.03 / 88
p0 1333 ± 1.013
1370
1360
1350
1340
1330
1320
1310
1300

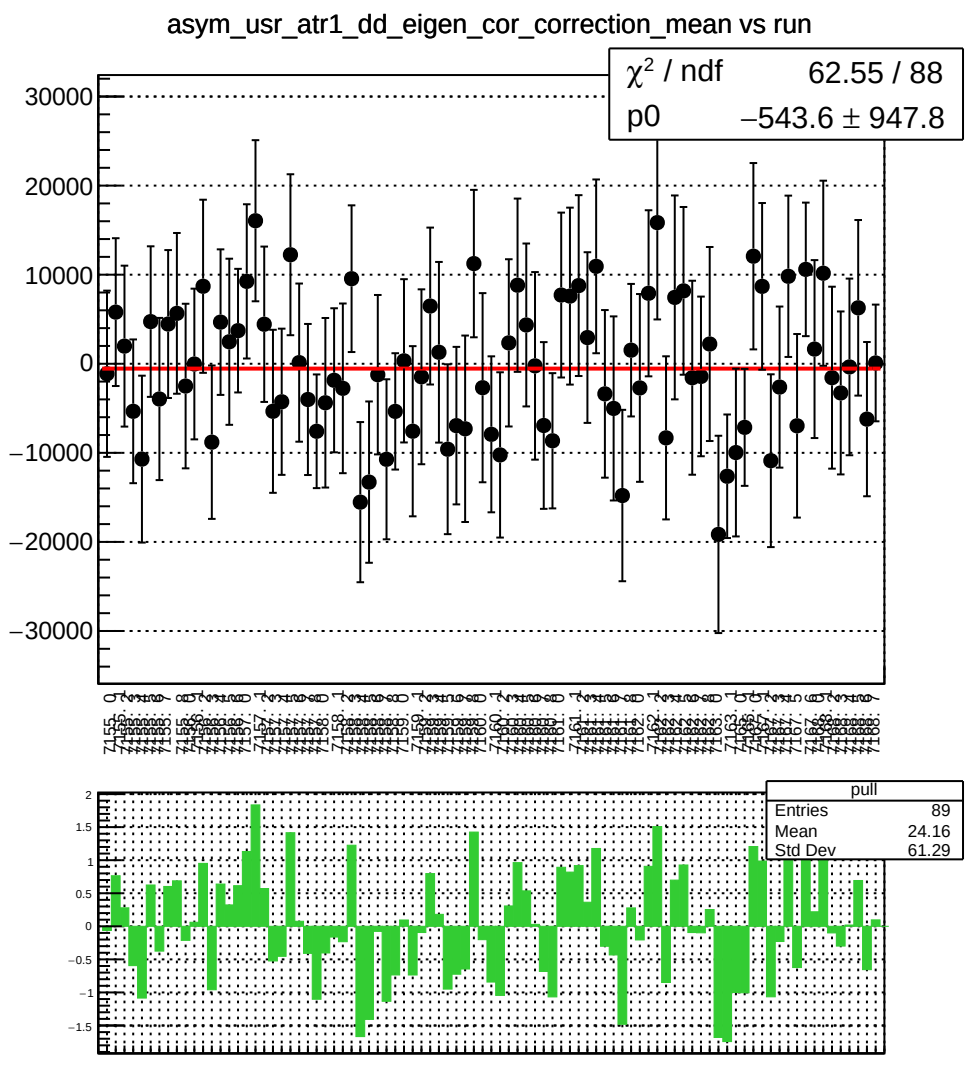

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 62.55 / 88
p0 −543.6 ± 947.8
pull
Entries 89
Mean 24.16
Std Dev 61.29

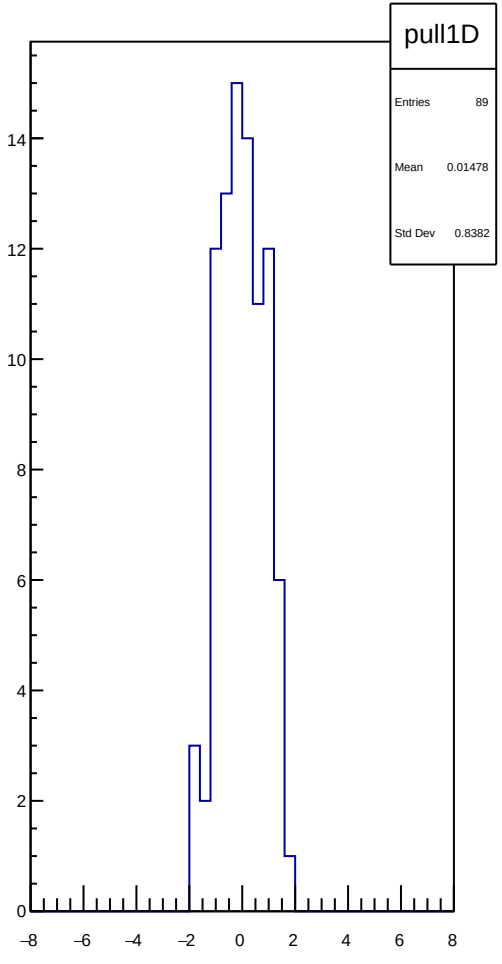

pull1D
Entries 89
Mean 0.01478
Std Dev 0.8382

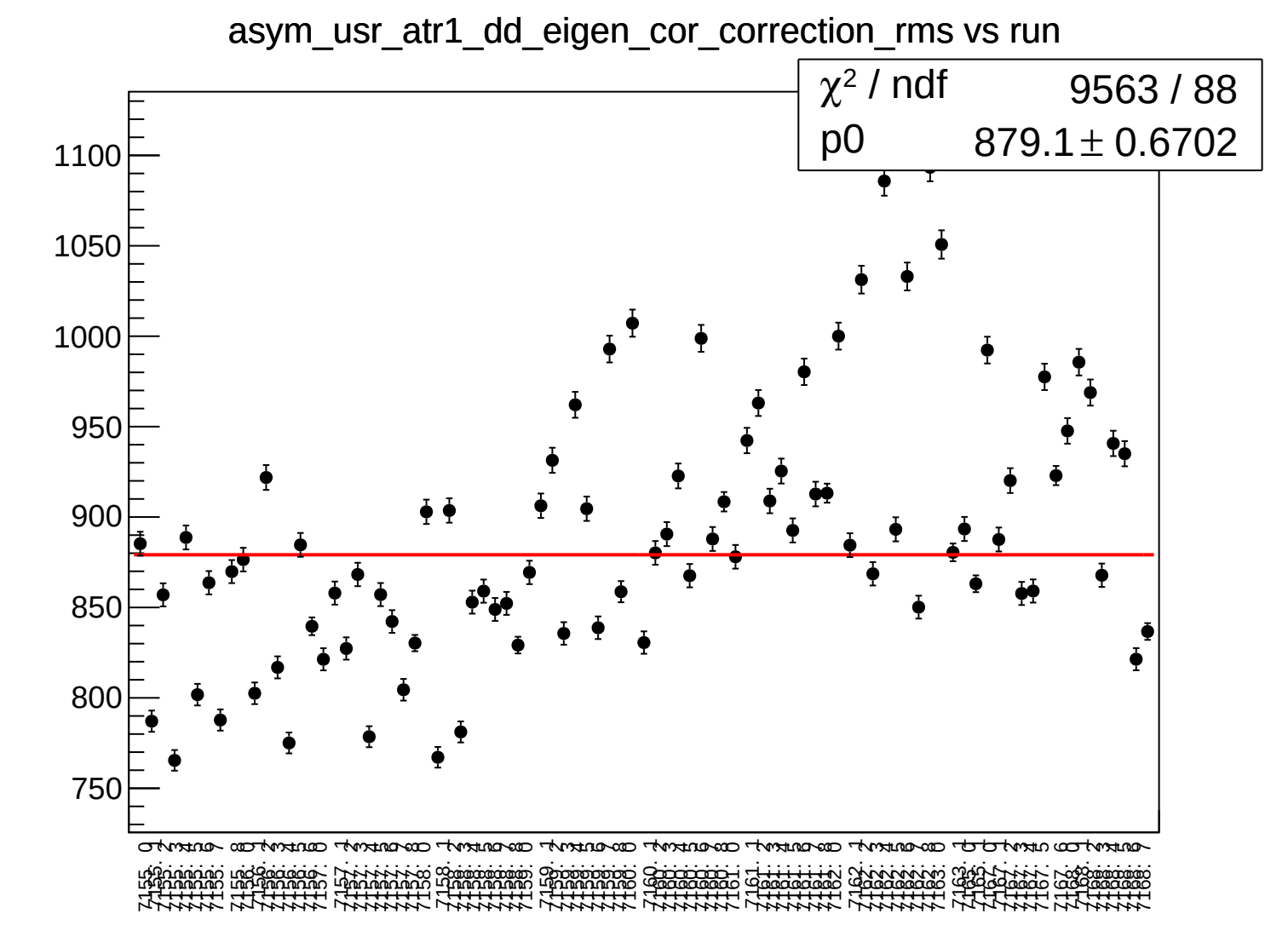

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 9563 / 88
p0 879.1 ± 0.6702
1100
1050
1000
950
900
850
800
750

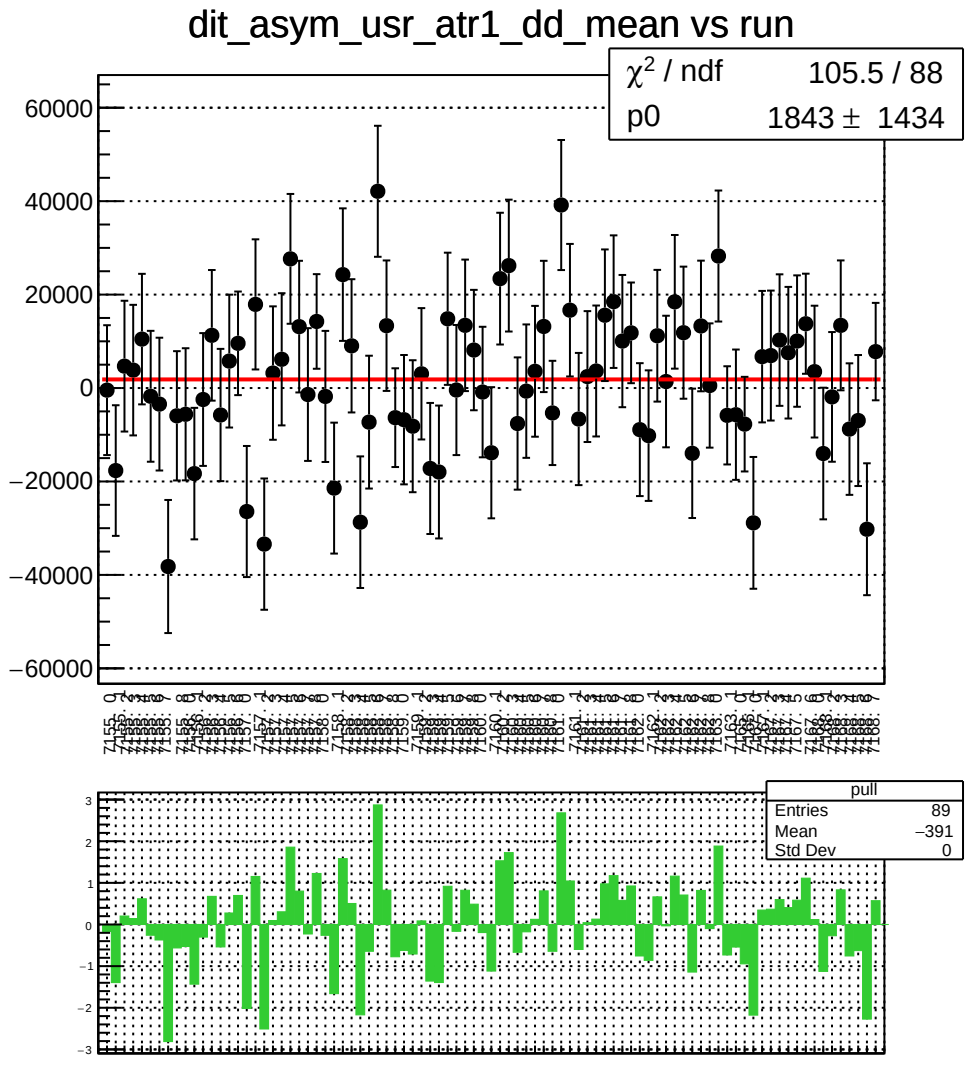

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.3 / 88
p0 1844 ± 1433
pull
Entries 89
Mean −349.4
Std Dev 0
pull1D
Entries 89
Mean −0.006672
Std Dev 1.093

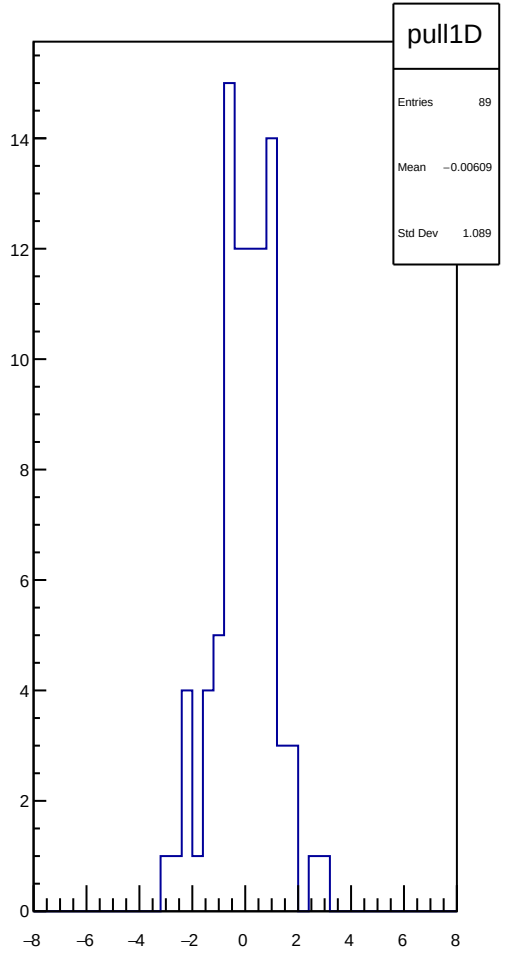

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 97.03 / 88
p0 1333 ± 1.013
1370
1360
1350
1340
1330
1320
1310
1300

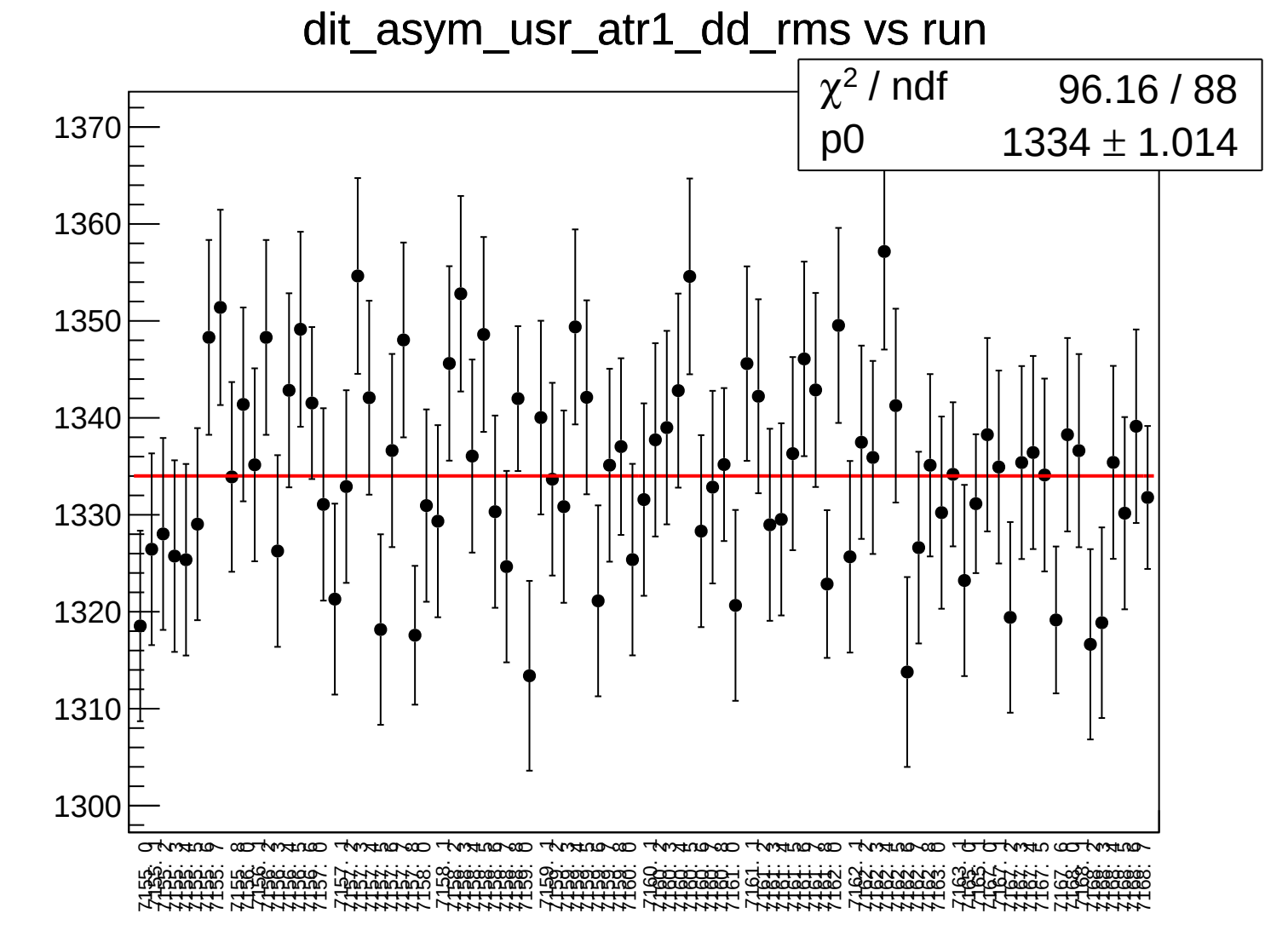

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.55 / 88
p0 −543.6 ± 947.8
pull
Entries 89
Mean 24.16
Std Dev 61.29

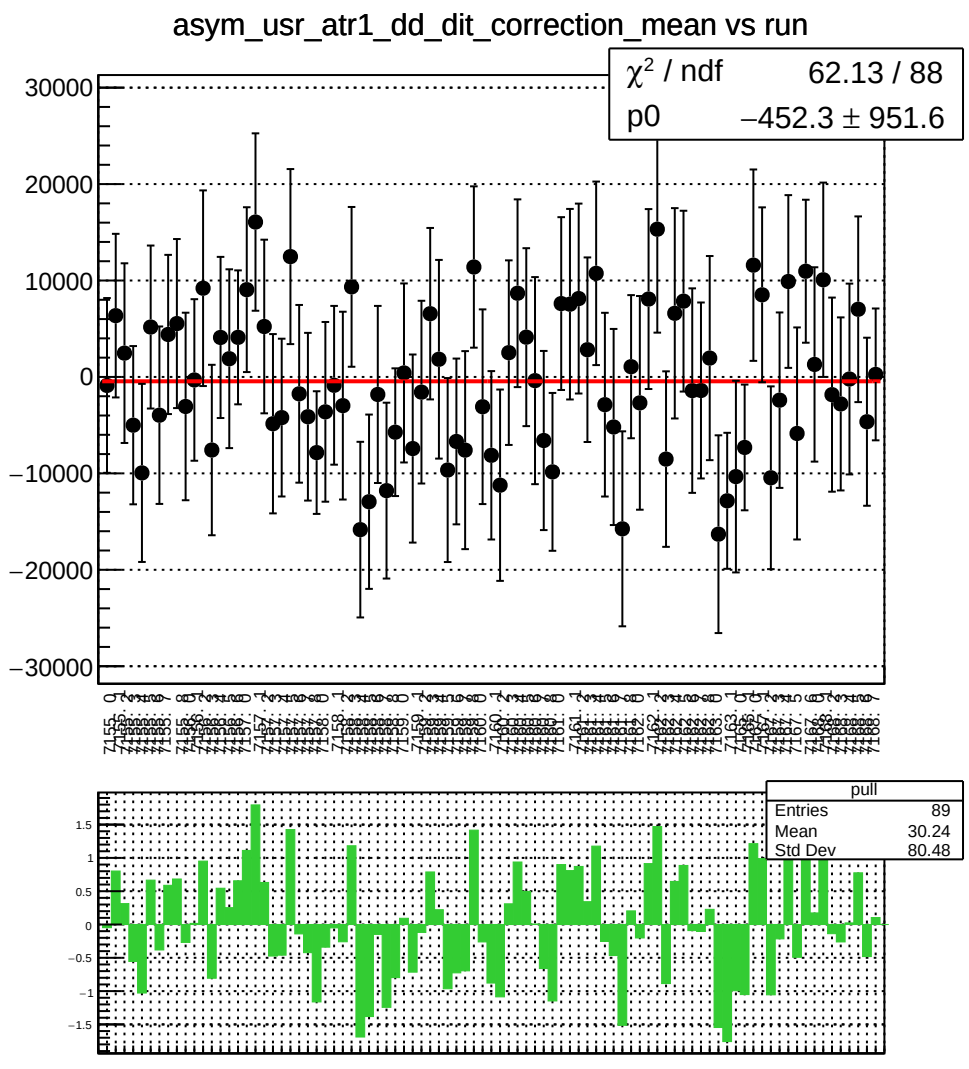

pull1D
Entries 89
Mean 0.01478
Std Dev 0.8382

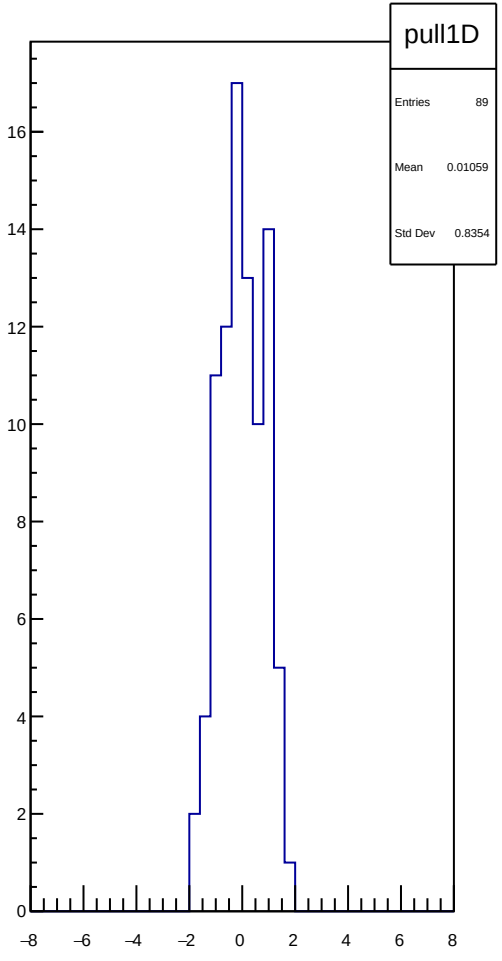

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 9563 / 88
p0 879.1 ± 0.6702
1100
1050
1000
950
900
850
800
750

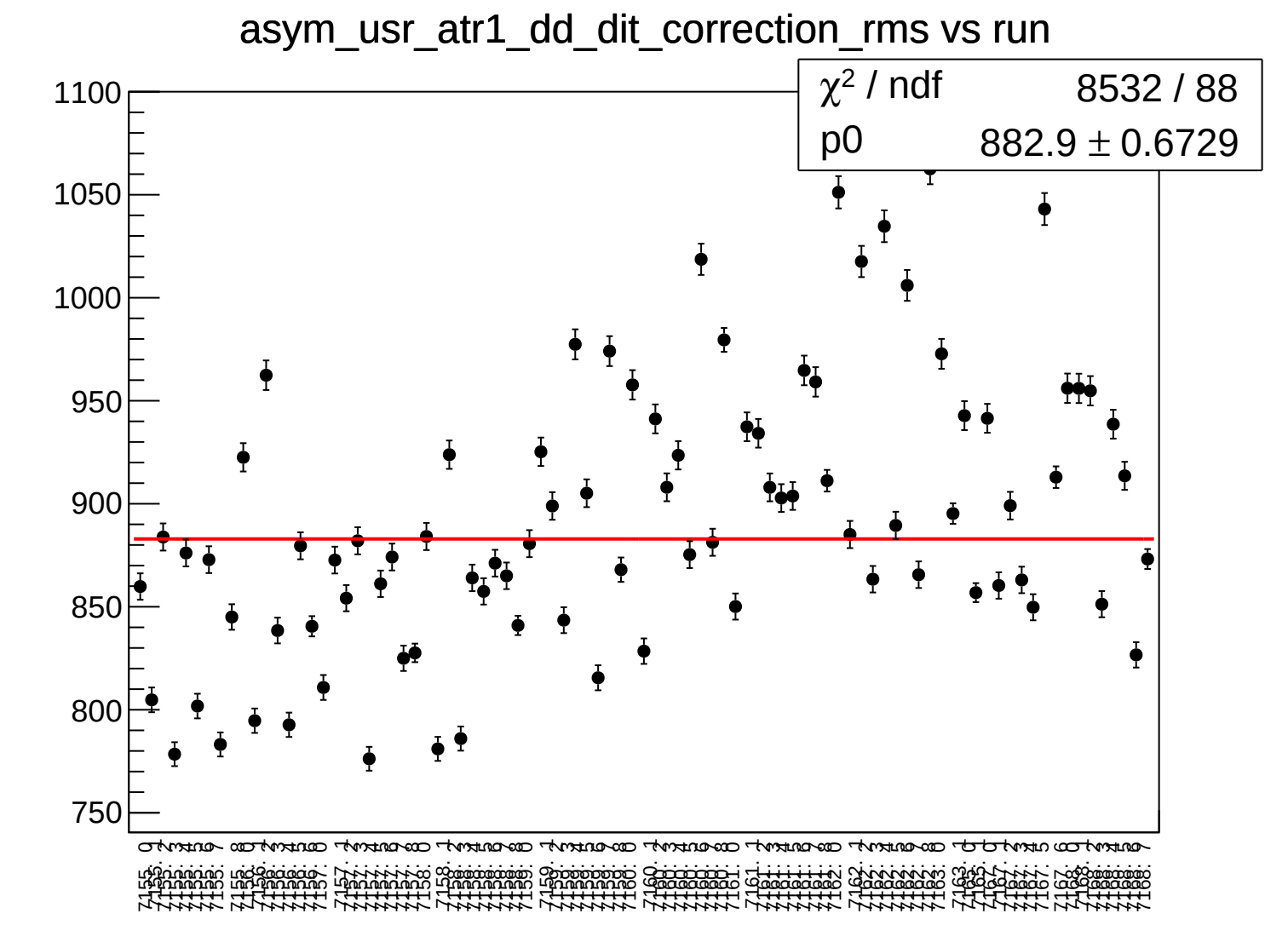

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 105.5 / 88
p0 1843 ± 1434
pull
Entries 89
Mean −391
Std Dev 0

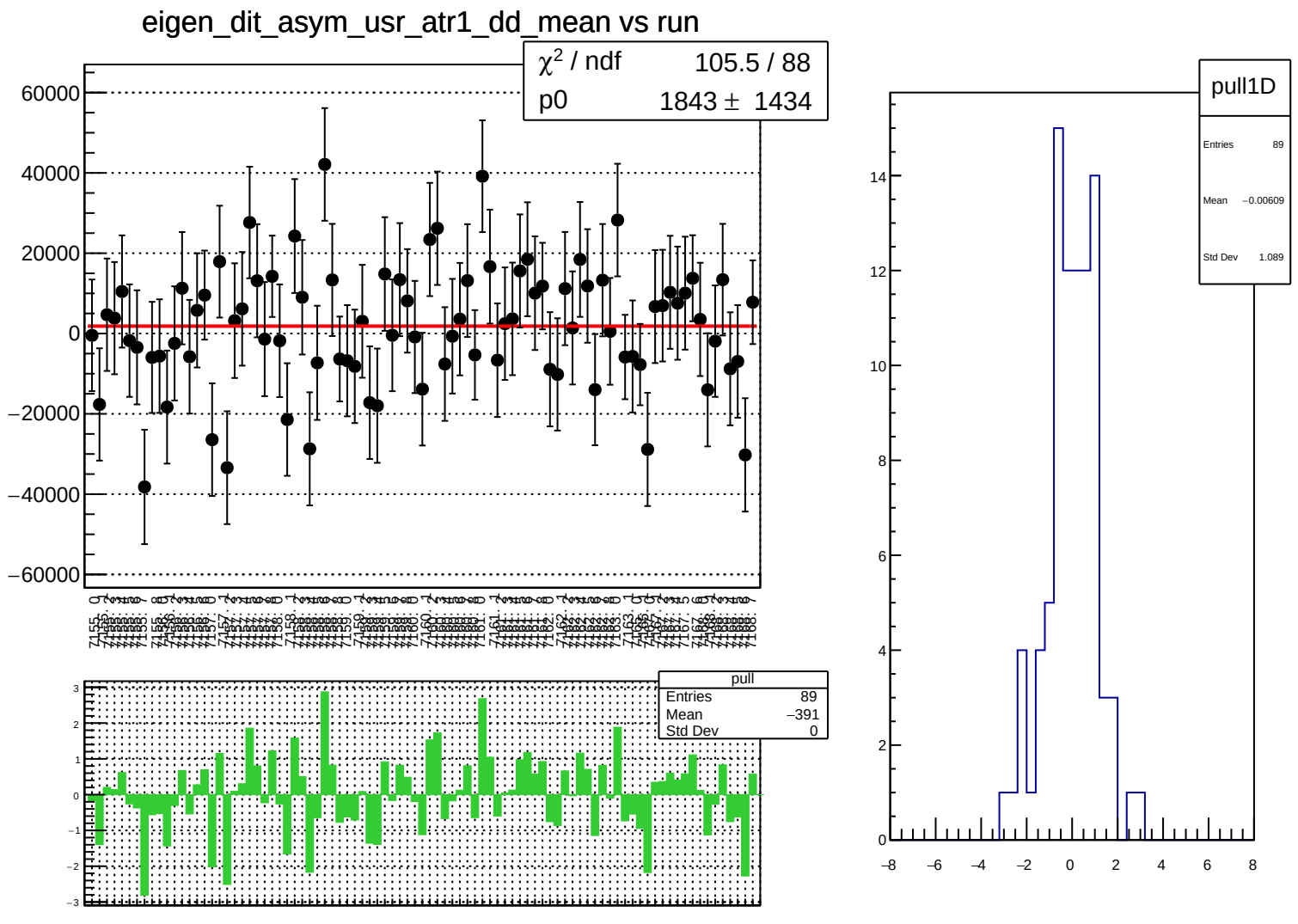

pull1D
Entries 89
Mean −0.00609
Std Dev 1.089

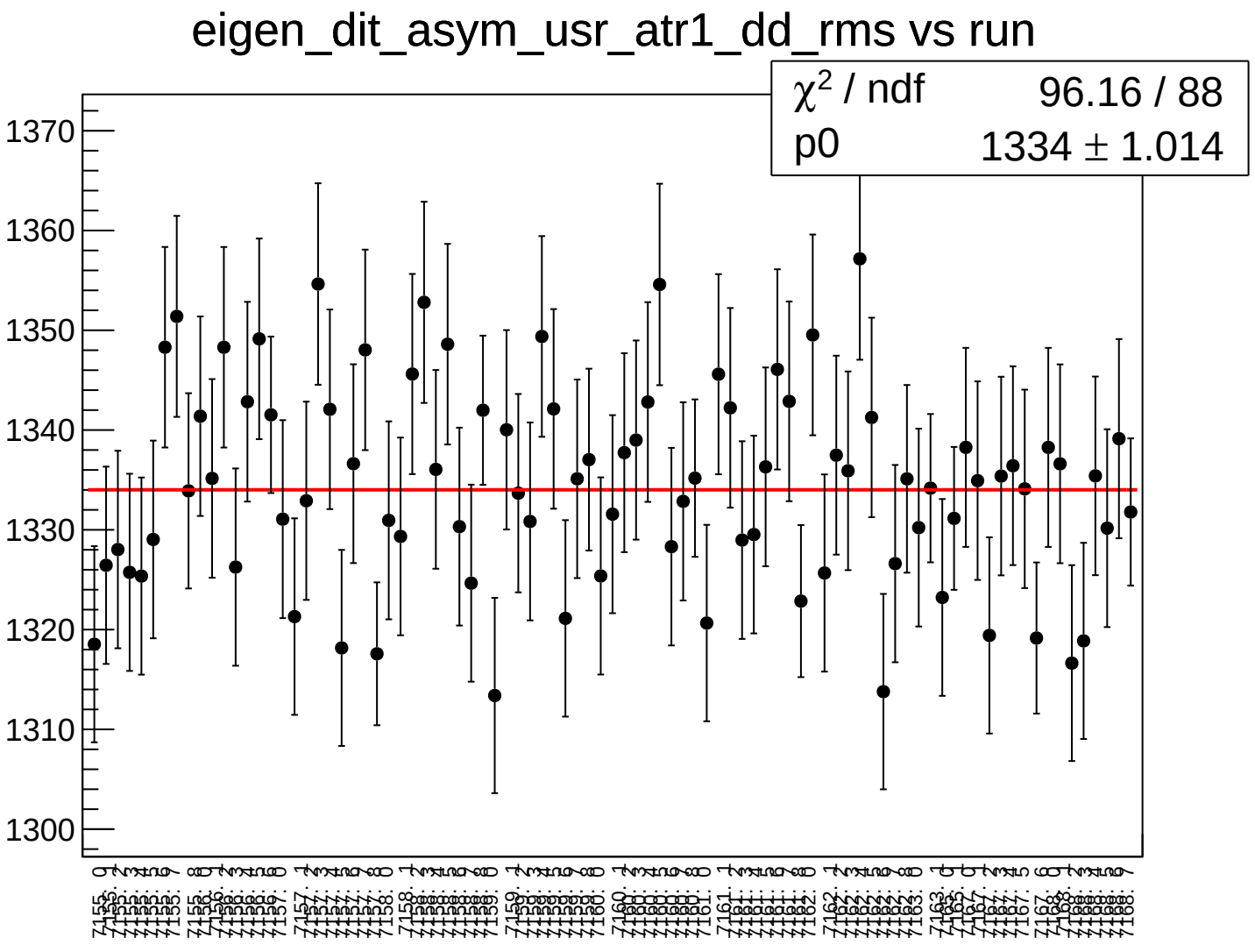

dit_asym_usr_atr1_dd_rms vs run
χ^2 / ndf 96.16 / 88
p0 1334 ± 1.014
1370
1360
1350
1340
1330
1320
1310
1300

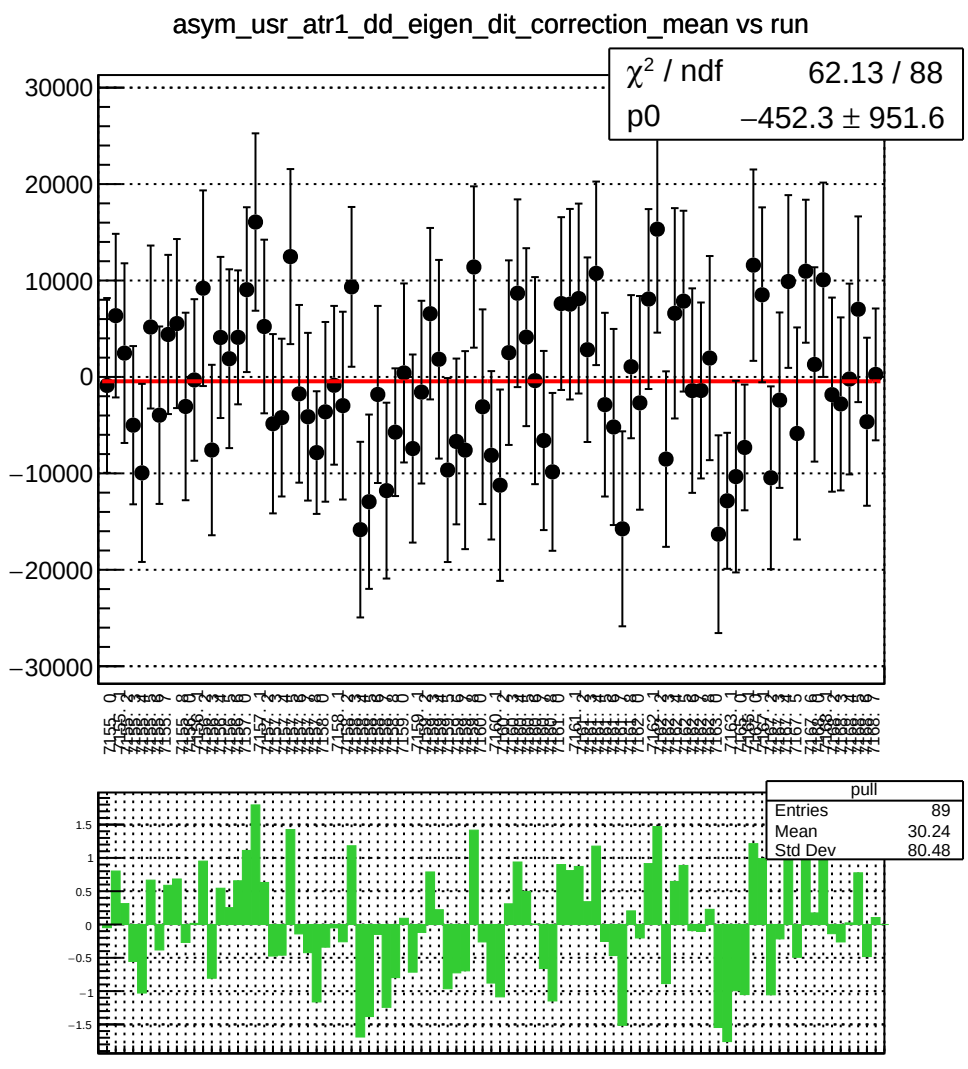

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 62.13 / 88
p0 −452.3 ± 951.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 30.24
Std Dev 80.48
1.5
1
0.5
0
−0.5
−1
−1.5

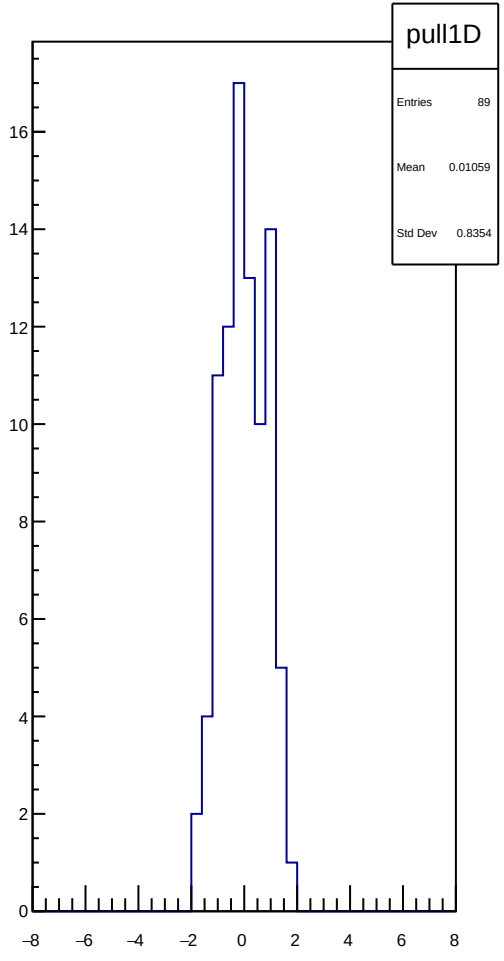

pull1D
Entries 89
Mean 0.01059
Std Dev 0.8354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

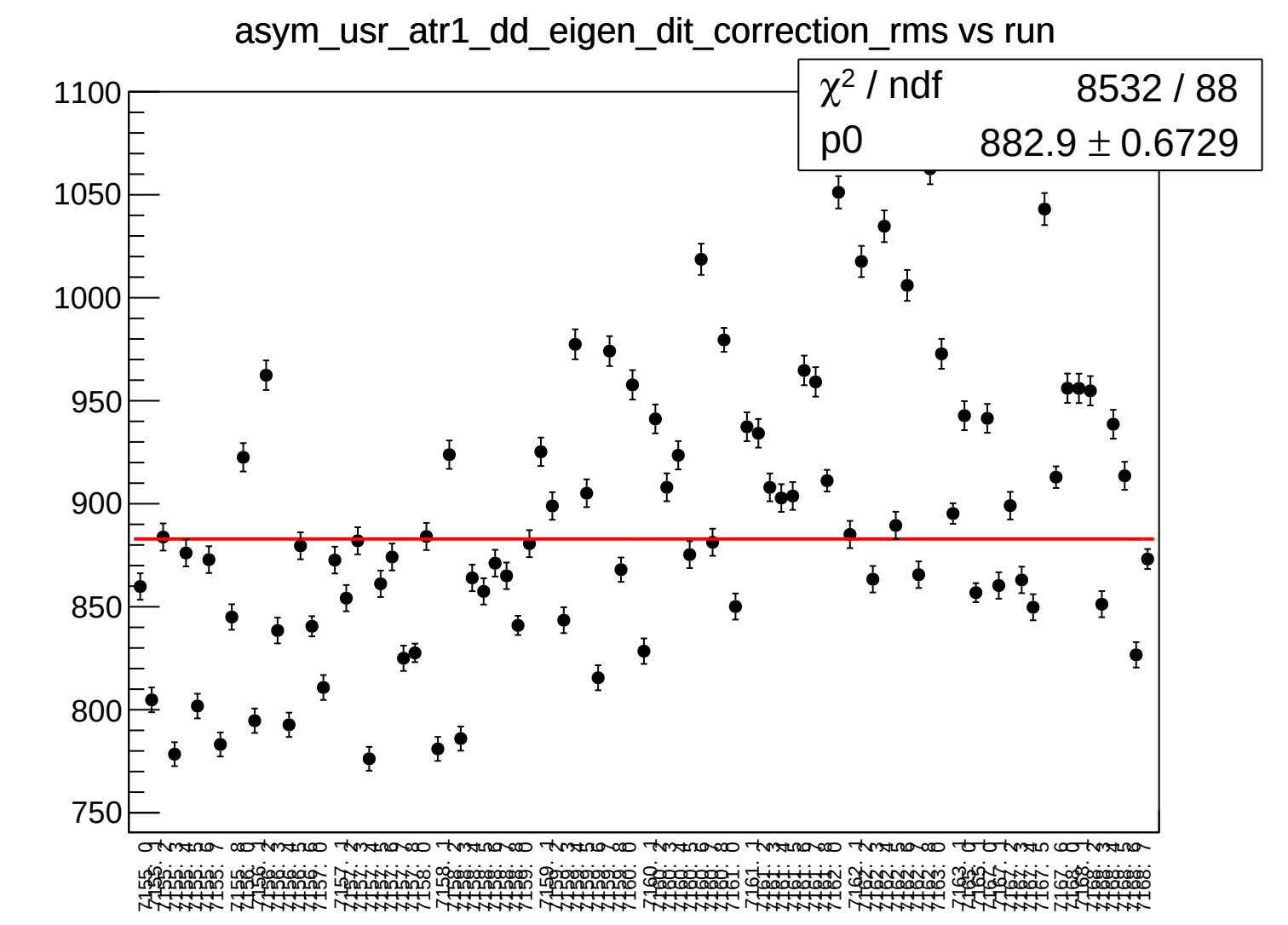

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 8532 / 88
p0 882.9 ± 0.6729
1100
1050
1000
950
900
850
800
750

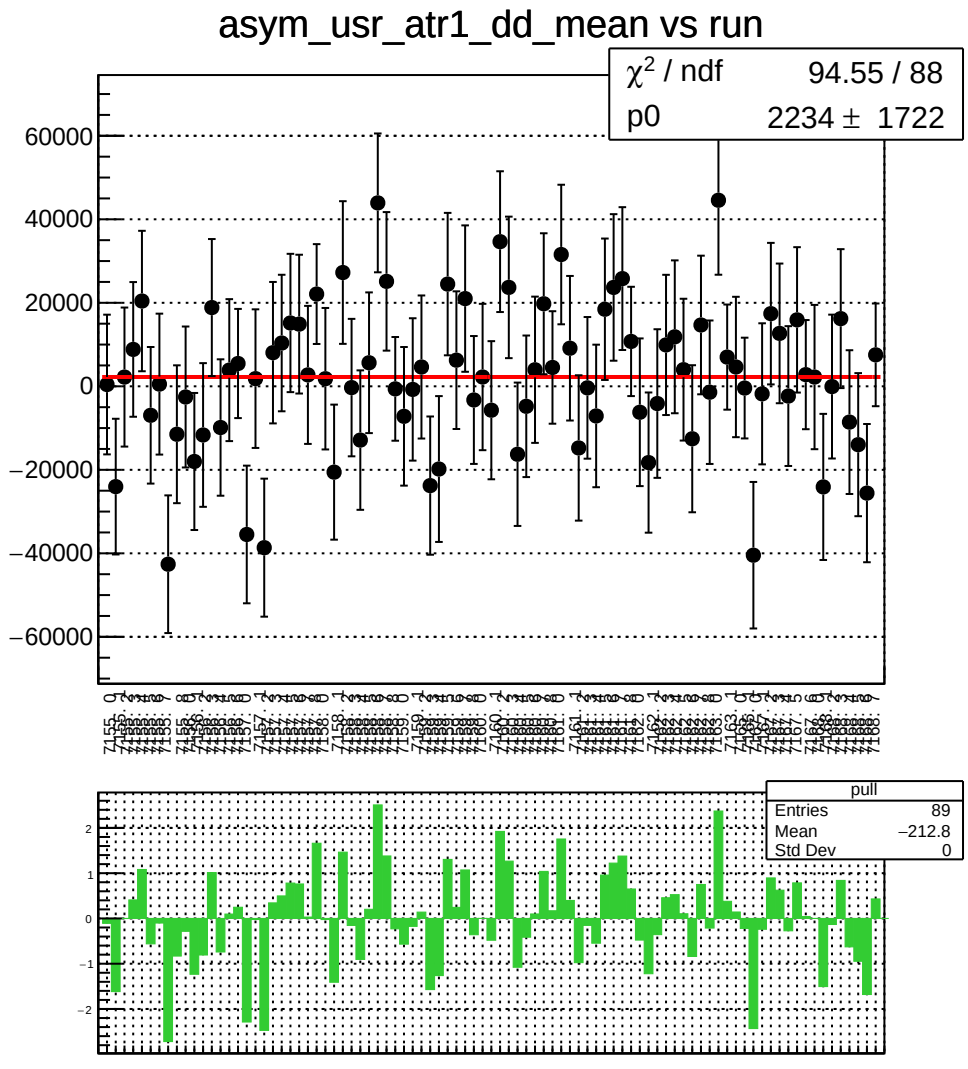

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 105.5 / 88
p0 1843 ± 1434
pull
Entries 89
Mean −391
Std Dev 0
pull1D
Entries 89
Mean −0.00609
Std Dev 1.089

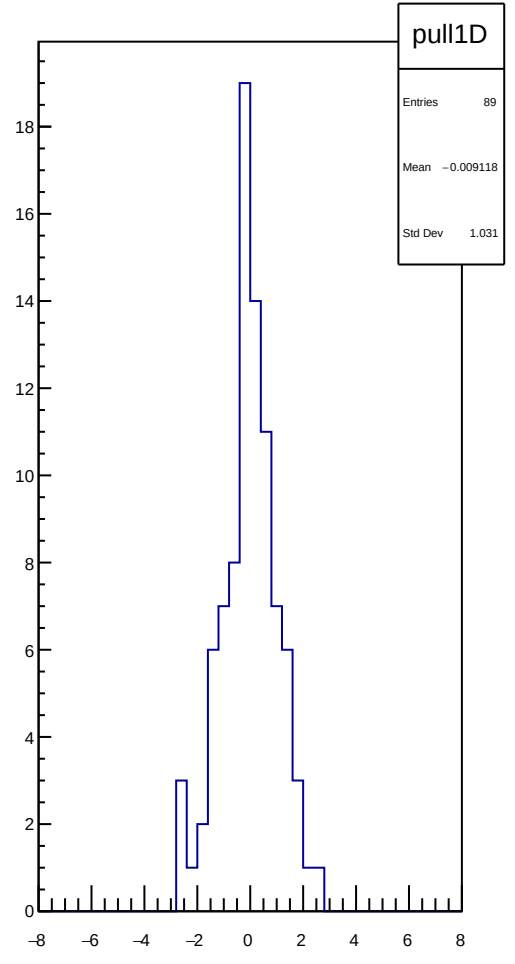

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 96.16 / 88
p0 1334 ± 1.014
1370
1360
1350
1340
1330
1320
1310
1300

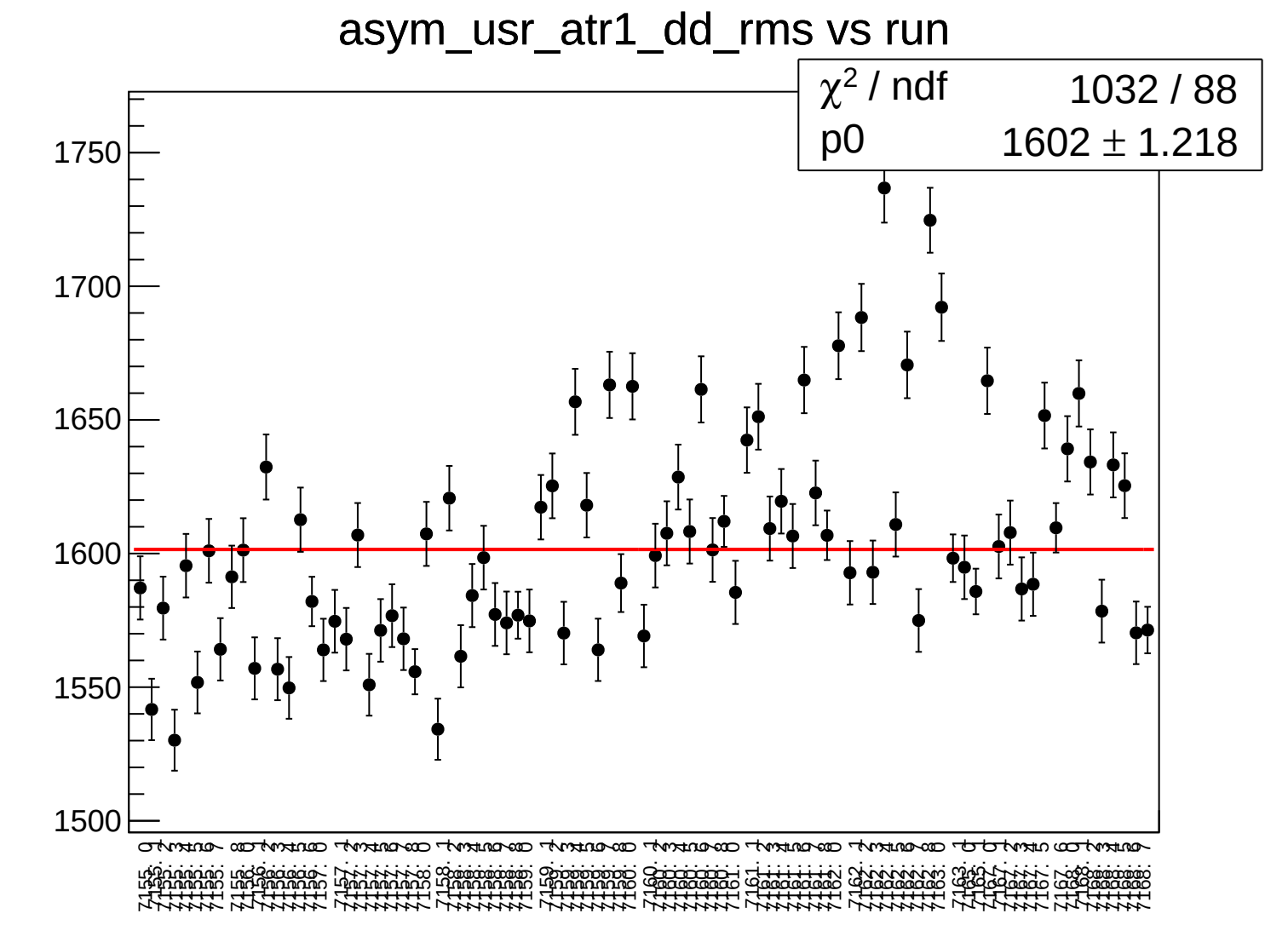

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.13 / 88
p0 −452.3 ± 951.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean 30.24
Std Dev 80.48
1.5
1
0.5
0
−0.5
−1
−1.5

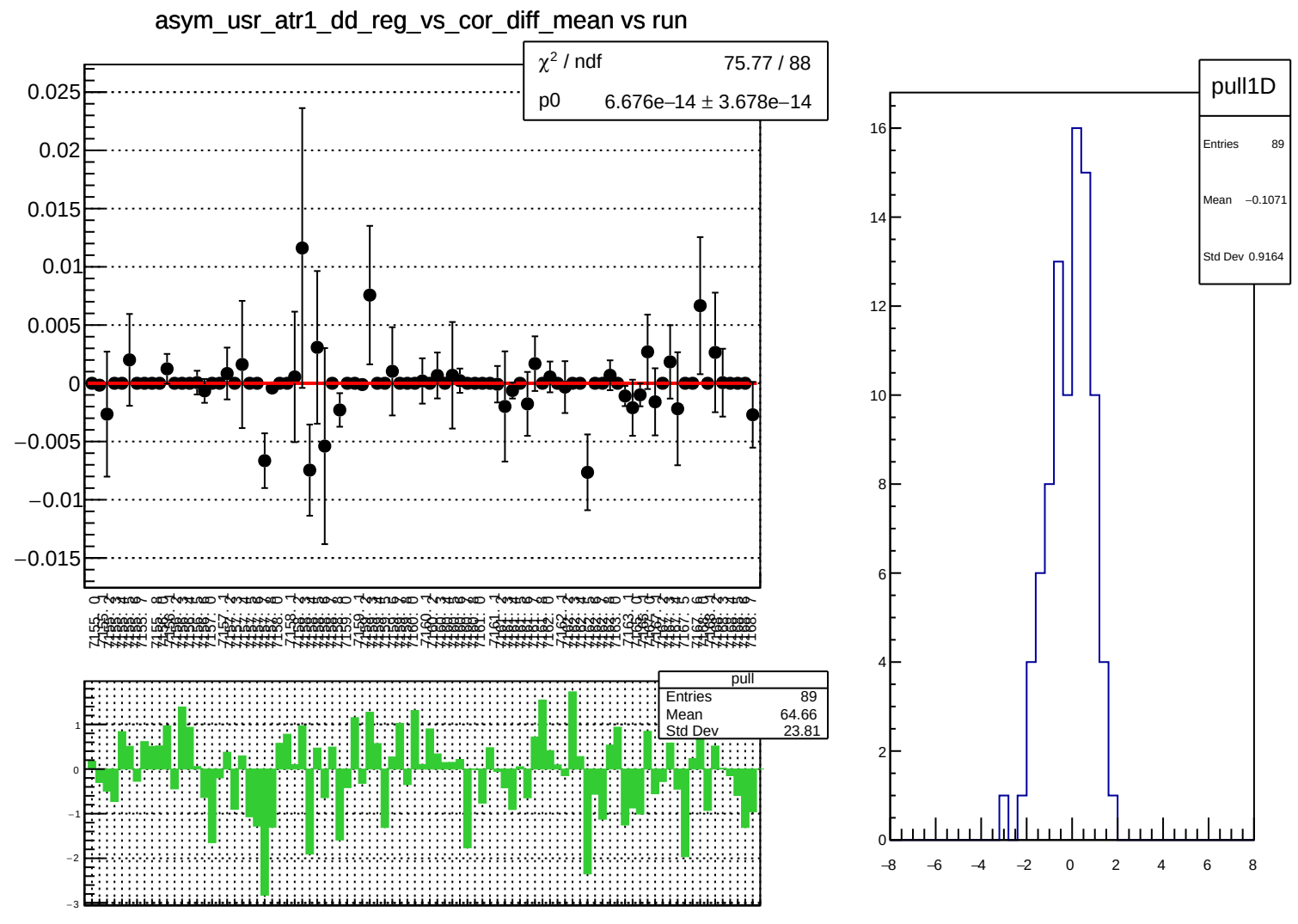

pull1D
Entries 89
Mean 0.01059
Std Dev 0.8354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

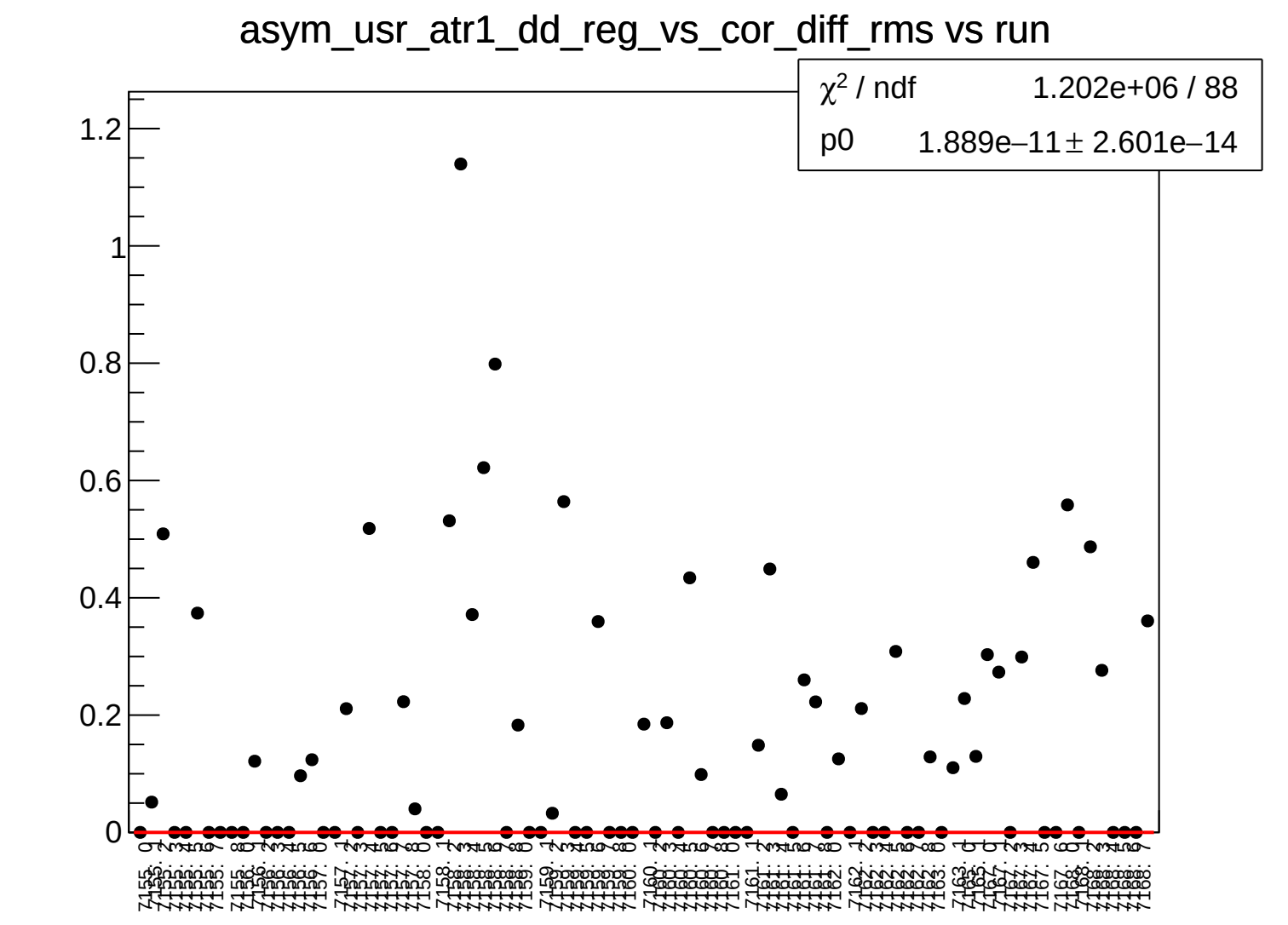

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8532 / 88
p0 882.9 ± 0.6729
1100
1050
1000
950
900
850
800
750

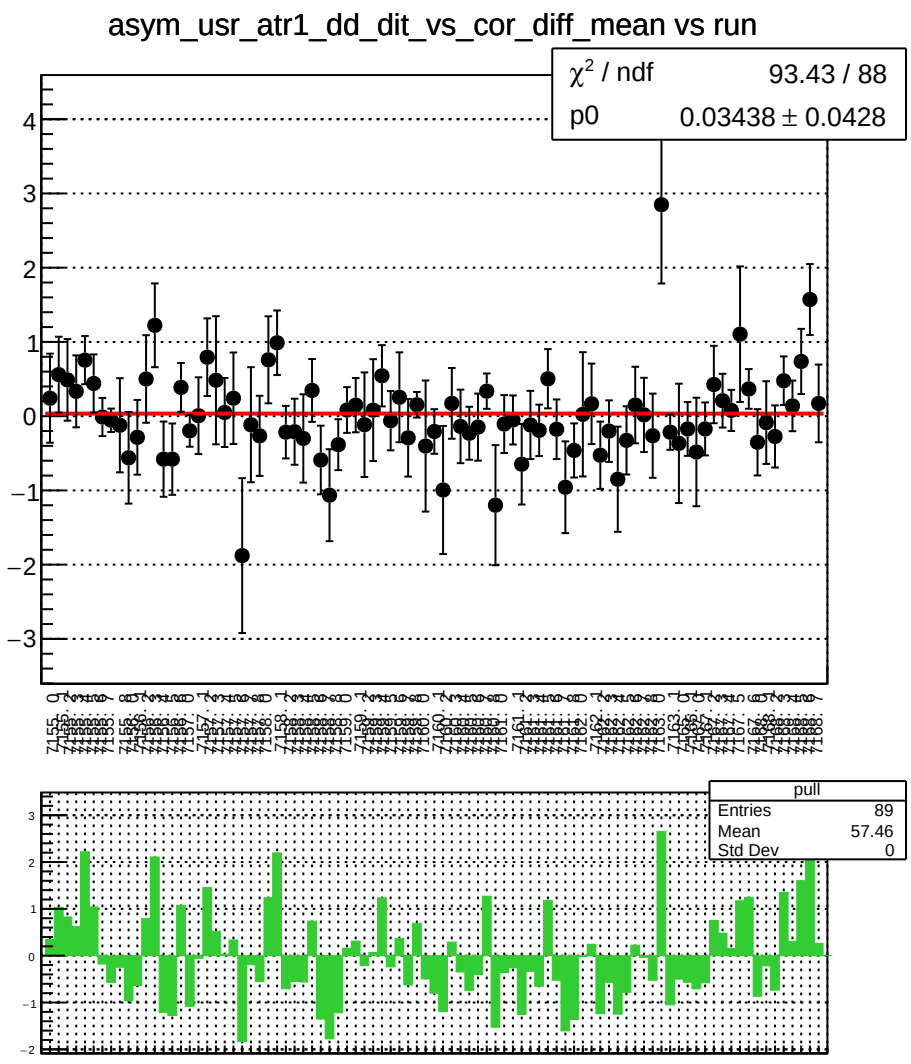

asym_usr_atr1_dd_mean vs run
χ² / ndf 94.55 / 88
p0 2234 ± 1722
pull
Entries 89
Mean −212.8
Std Dev 0

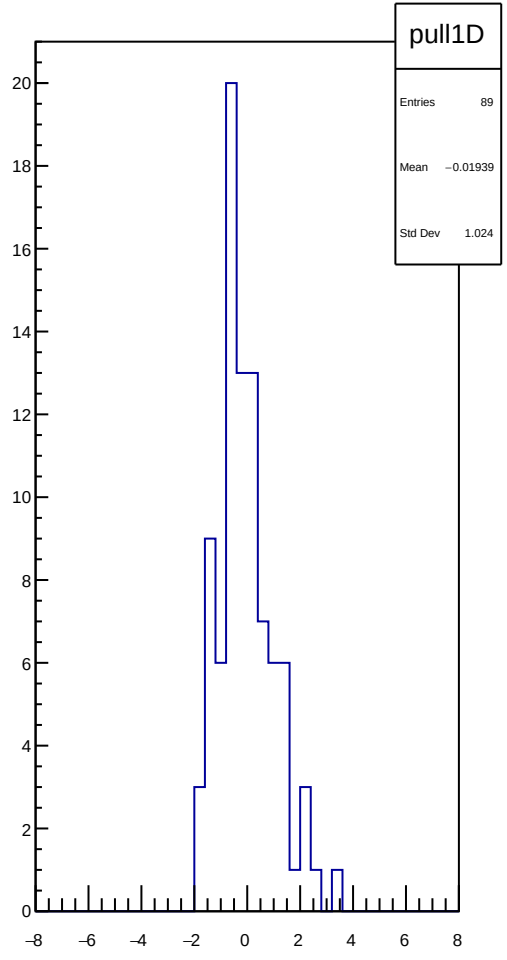

pull1D
Entries 89
Mean −0.009118
Std Dev 1.031

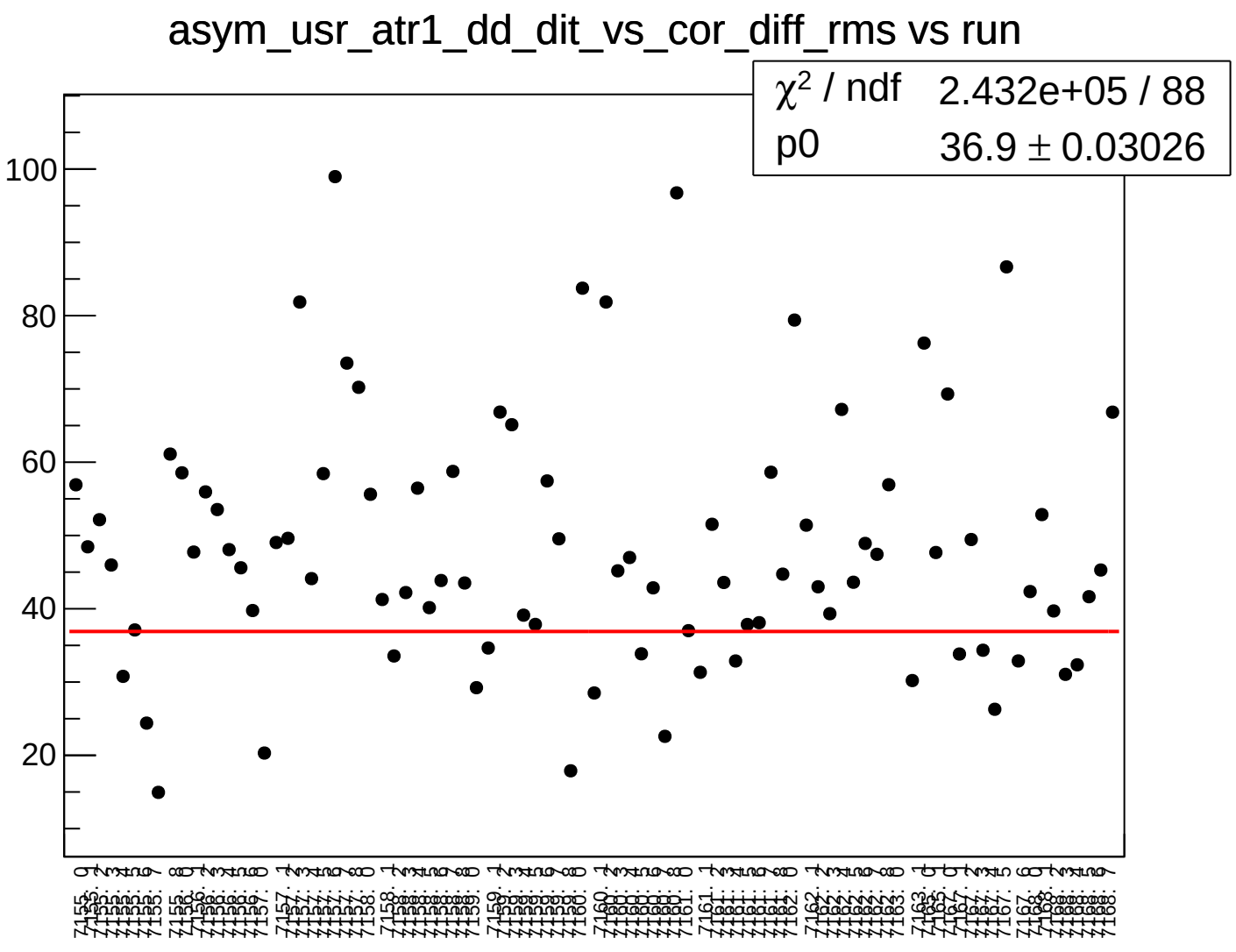

asym_usr_atr1_dd_rms vs run
χ² / ndf 1032 / 88
p0 1602 ± 1.218
1750
1700
1650
1600
1550
1500

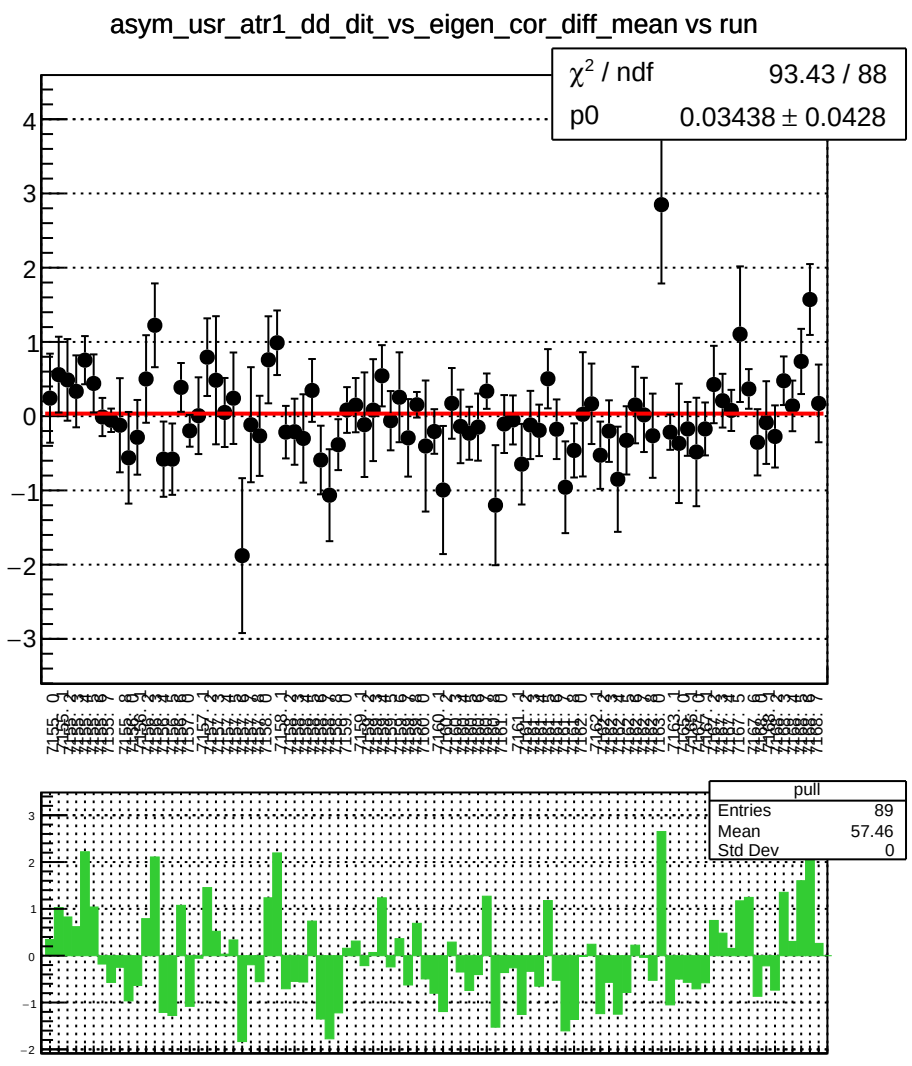

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.77 / 88
p0 6.676e−14 ± 3.678e−14
pull
Entries 89
Mean 64.66
Std Dev 23.81
pull1D
Entries 89
Mean −0.1071
Std Dev 0.9164

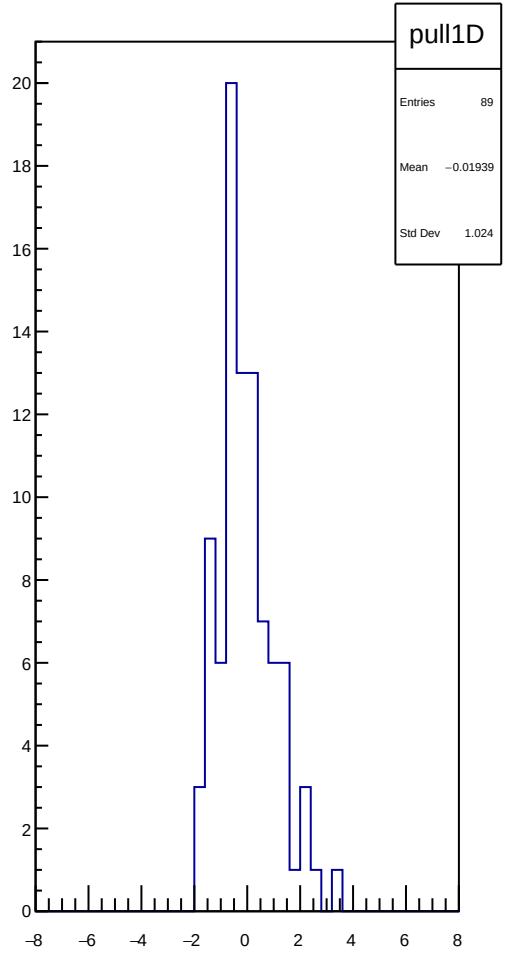

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 88
p0 1.889e−11 ± 2.601e−14
1.2
1
0.8
0.6
0.4
0.2
0

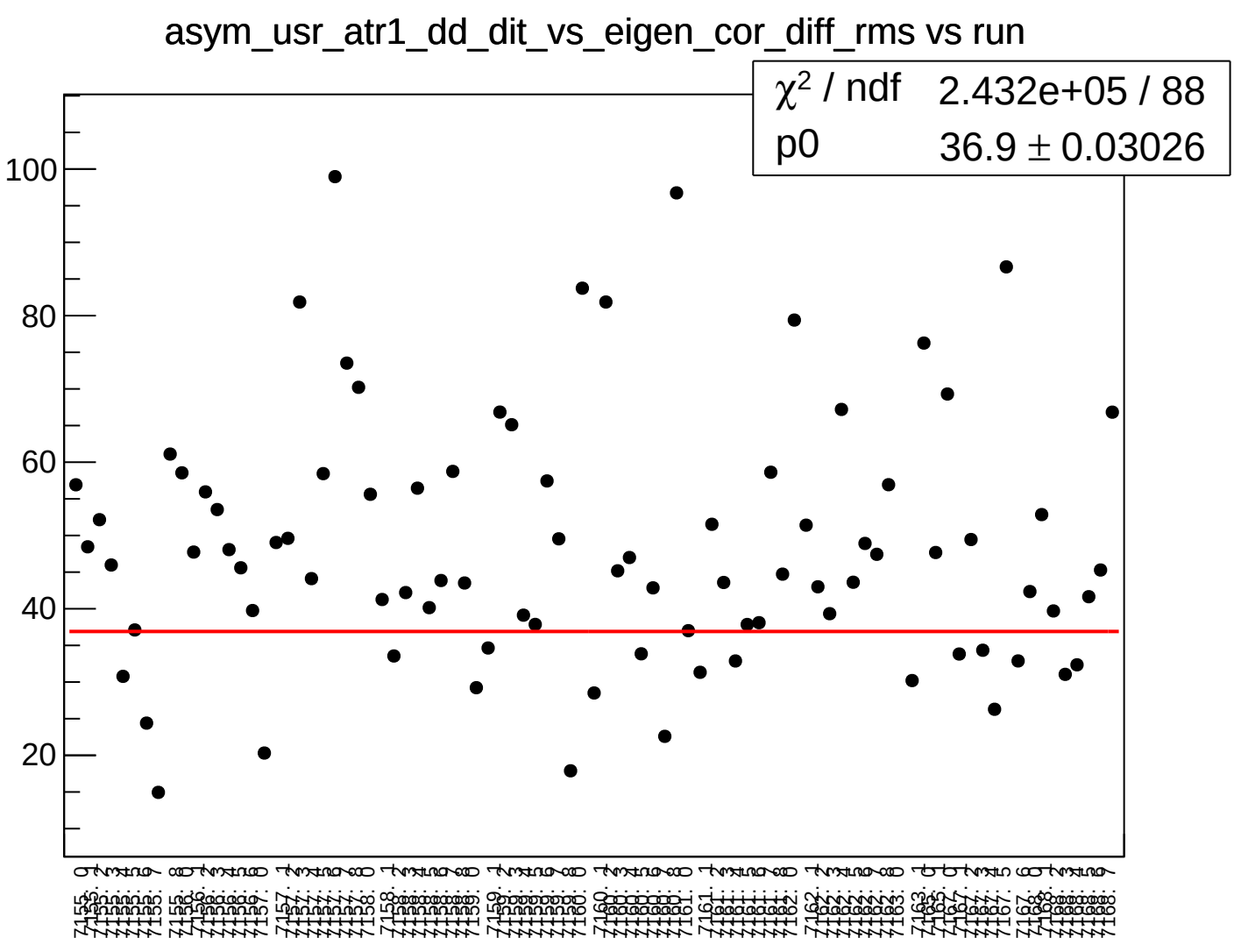

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.43 / 88
p0 0.03438 ± 0.0428
pull
Entries 89
Mean 57.46
Std Dev 0

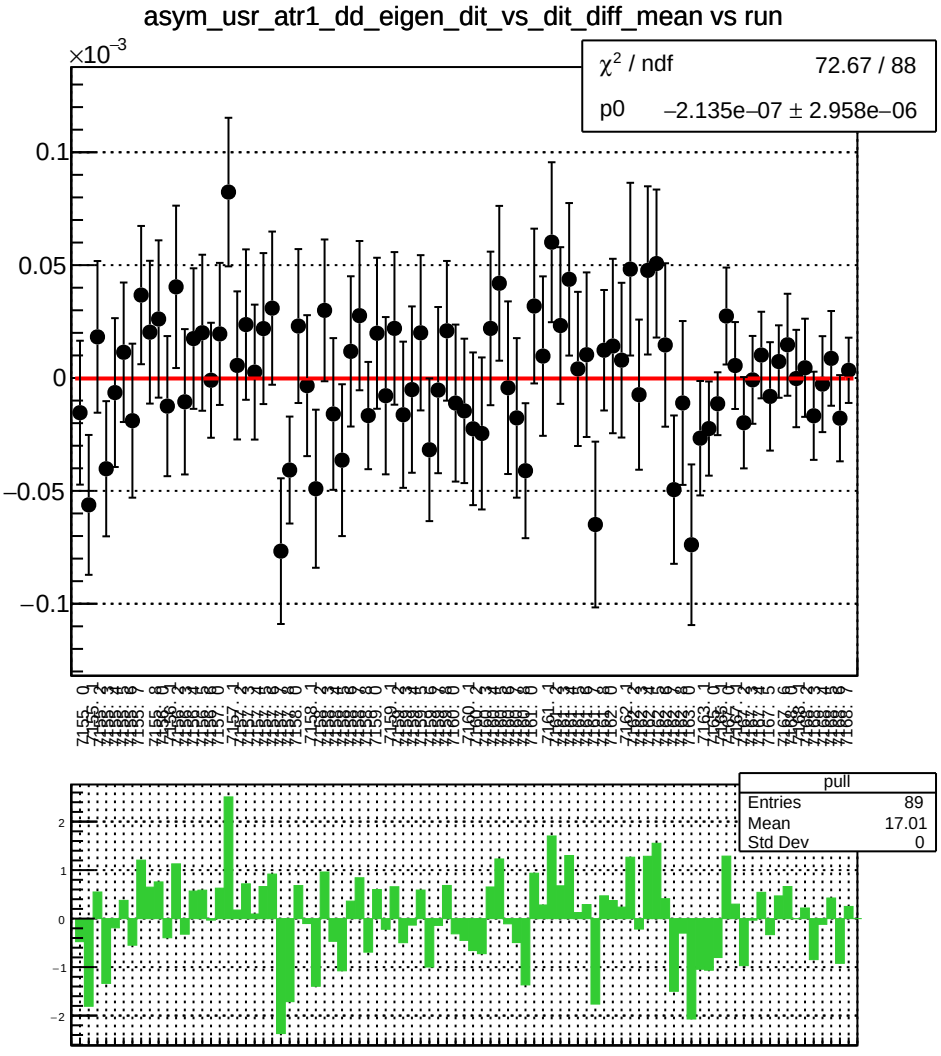

pull1D
Entries 89
Mean −0.01939
Std Dev 1.024

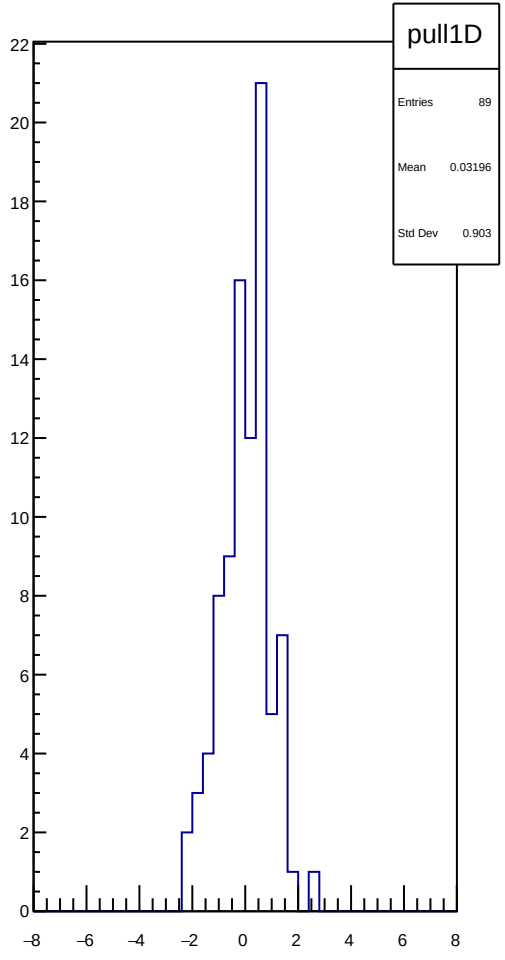

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.432e+05 / 88
p0 36.9 ± 0.03026
100
80
60
40
20

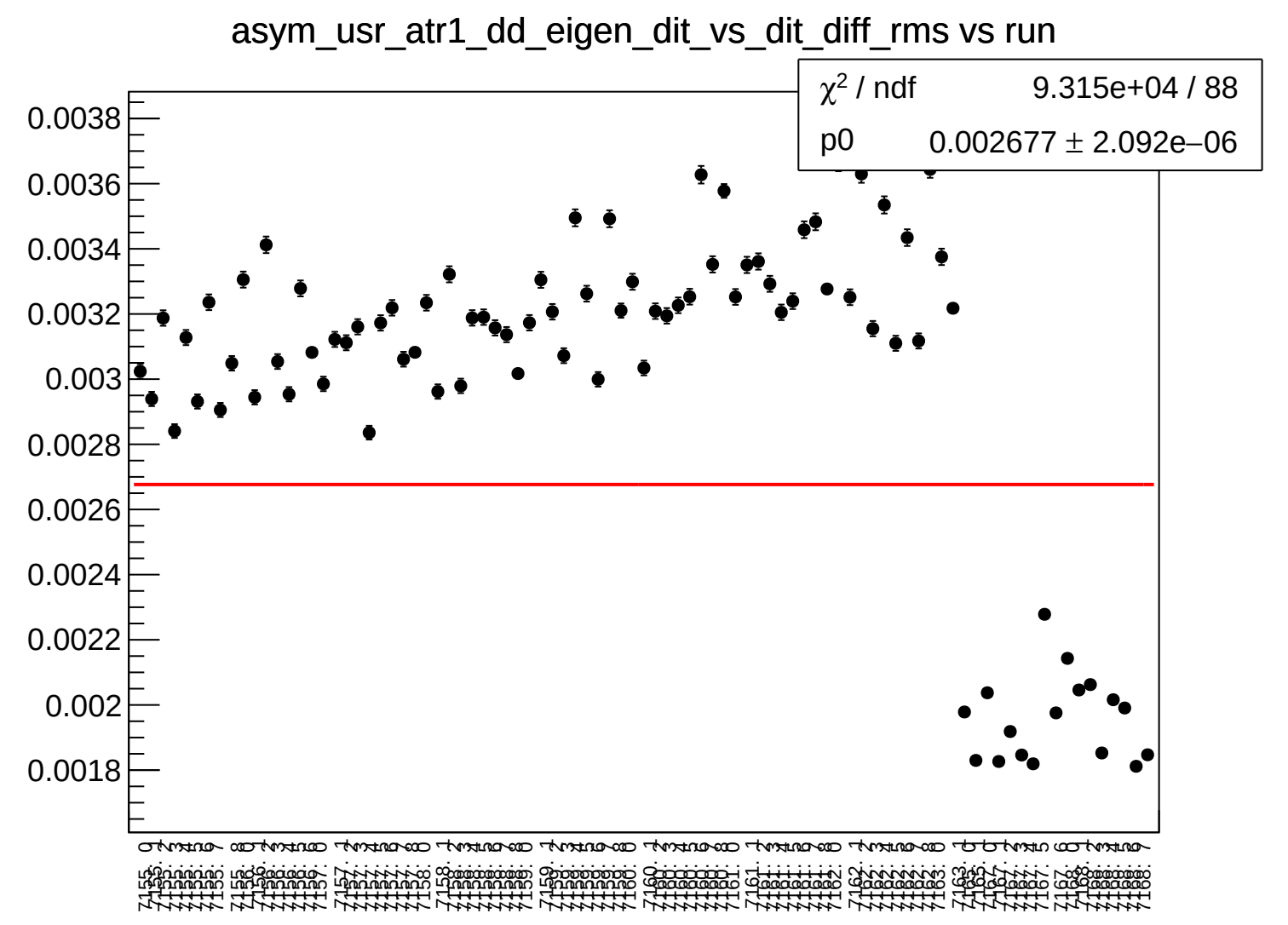

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.43 / 88
p0 0.03438 ± 0.0428
pull
Entries 89
Mean 57.46
Std Dev 0

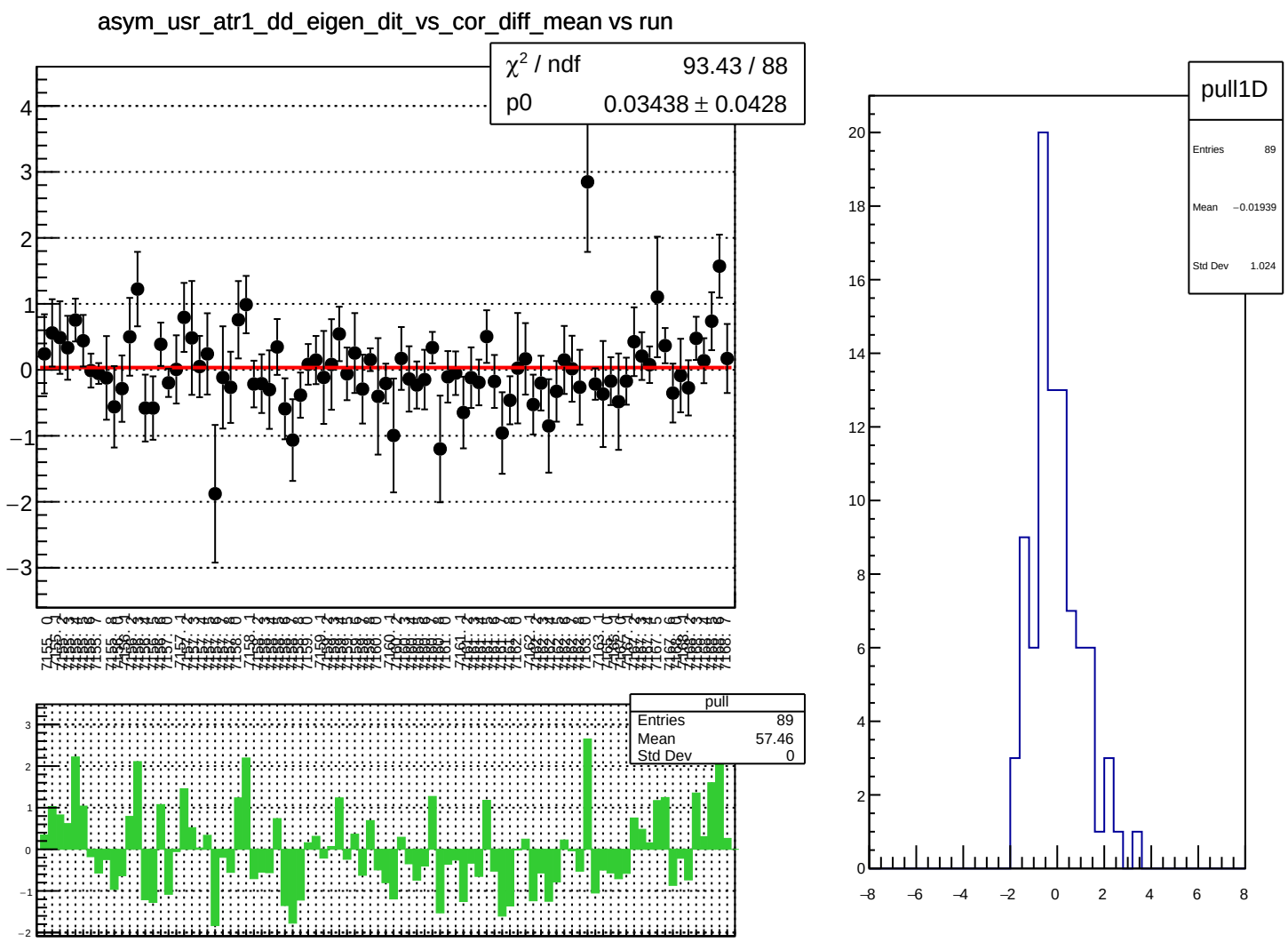

pull1D
Entries 89
Mean −0.01939
Std Dev 1.024

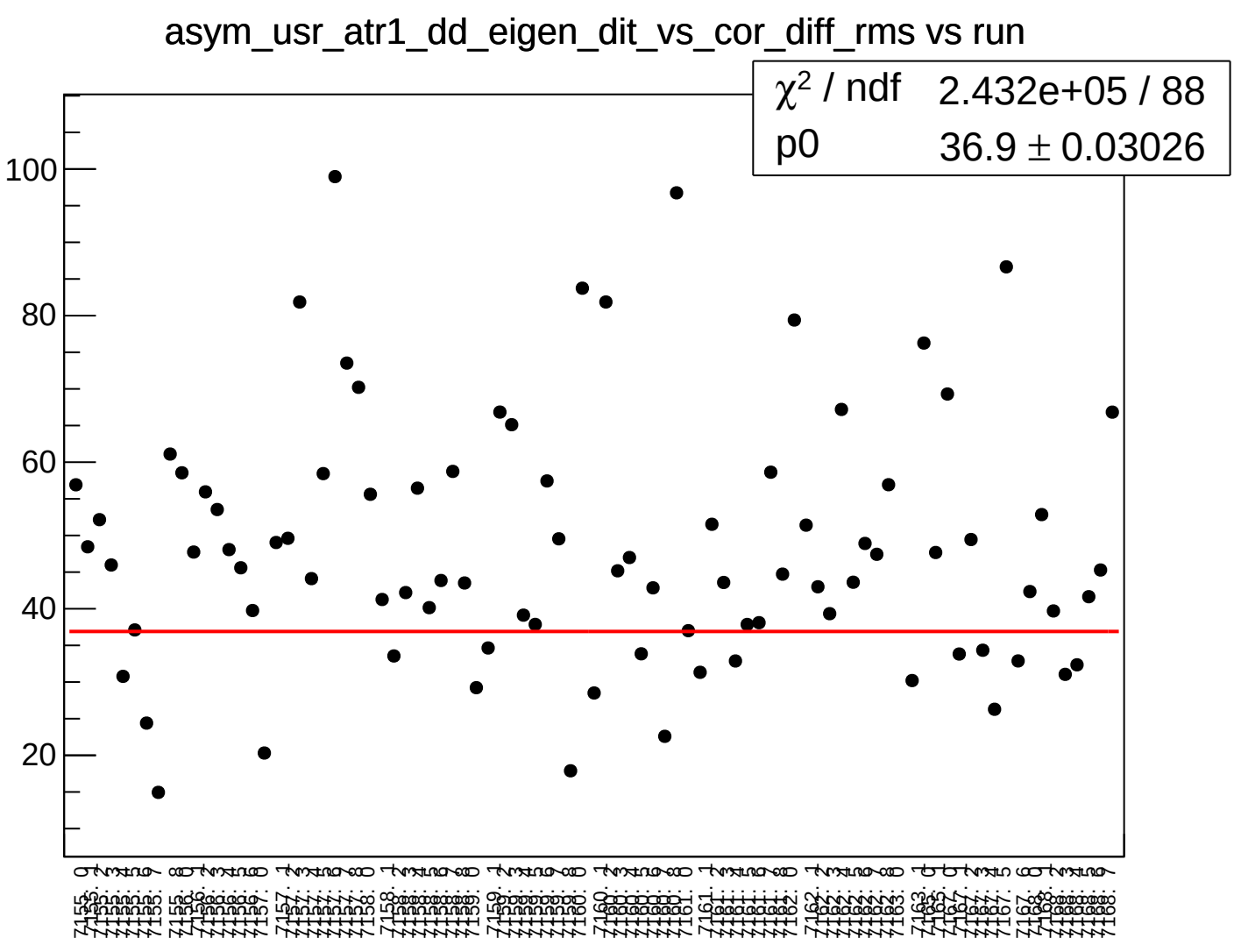

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.432e+05 / 88
p0 36.9 ± 0.03026
100
80
60
40
20

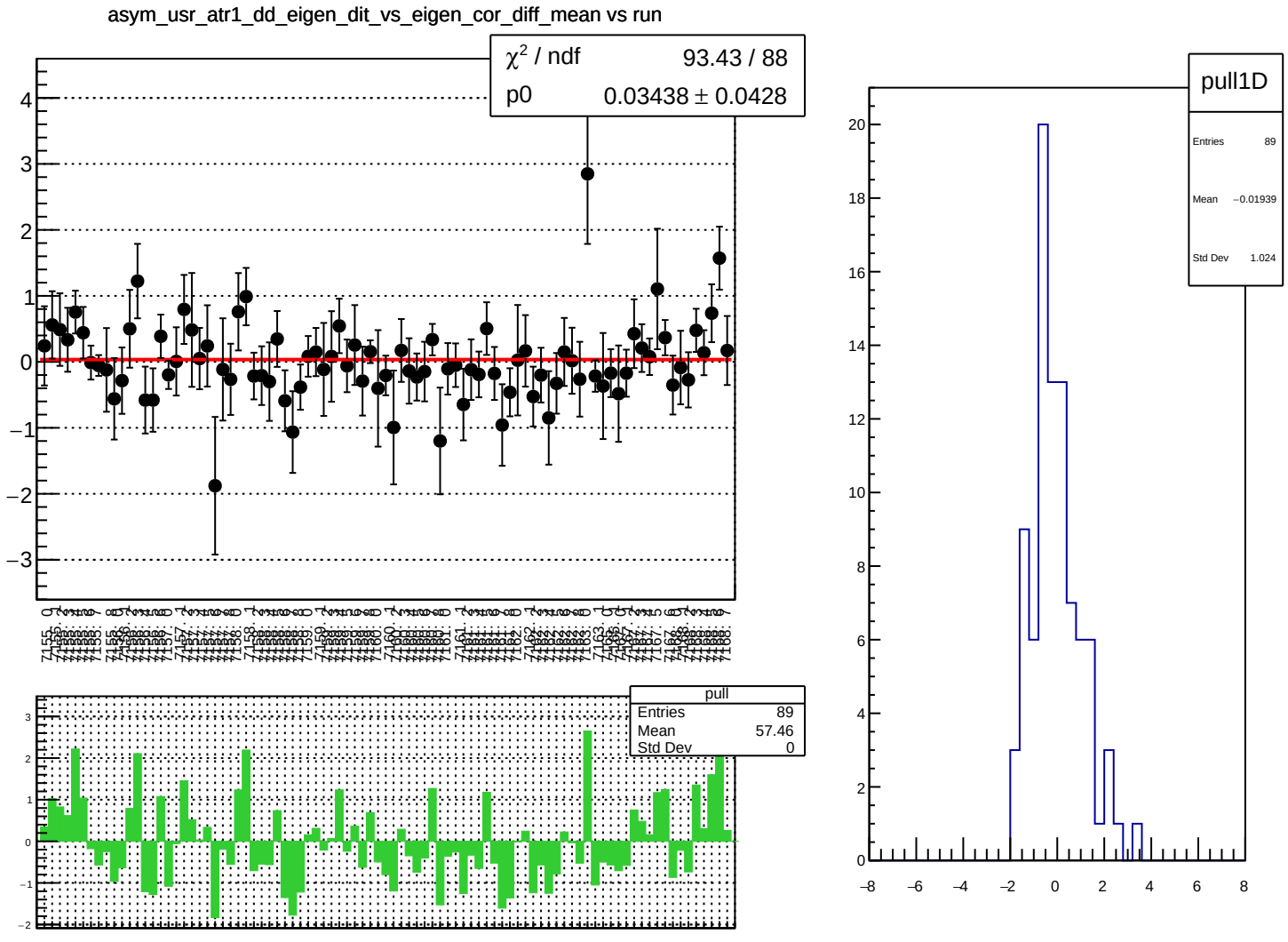

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.67 / 88
p0 −2.135e−07 ± 2.958e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 17.01
Std Dev 0
2
1
0
−1
−2

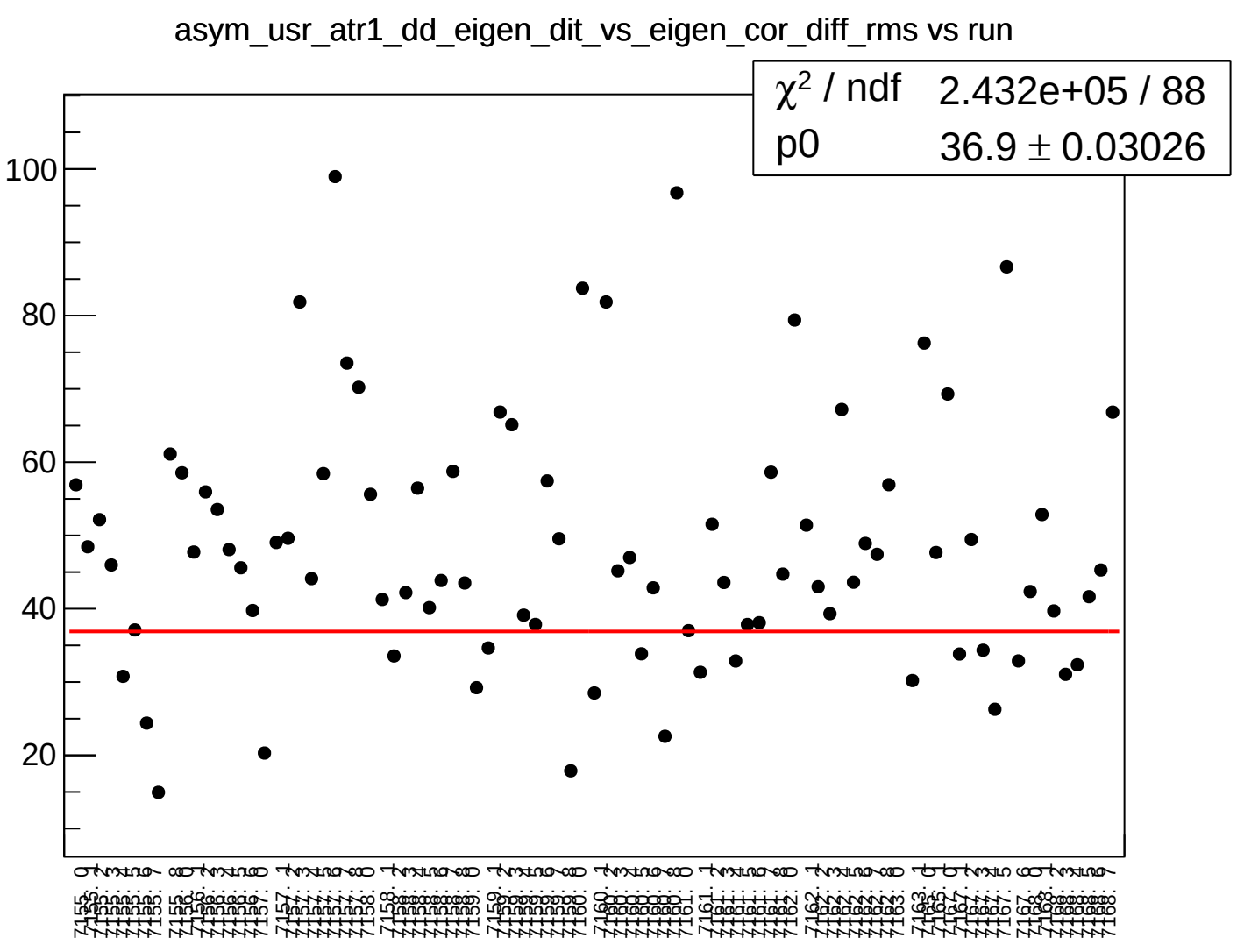

pull1D
Entries 89
Mean 0.03196
Std Dev 0.903
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

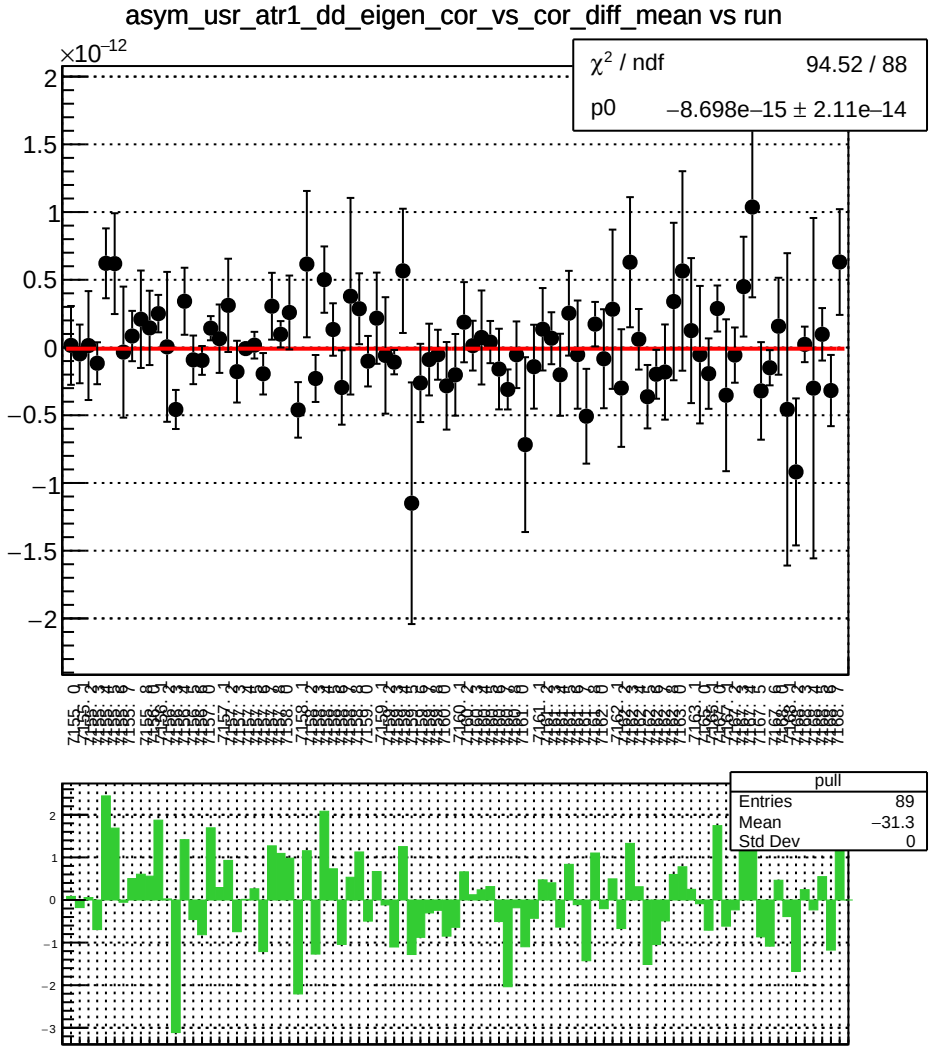

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.315e+04 / 88
p0 0.002677 ± 2.092e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

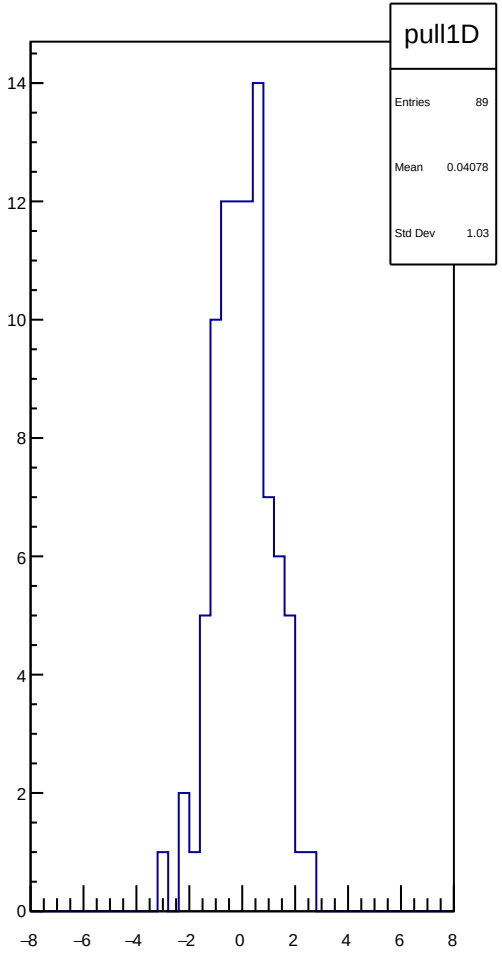

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.43 / 88
p0 0.03438 ± 0.0428
pull
Entries 89
Mean 57.46
Std Dev 0
pull1D
Entries 89
Mean −0.01939
Std Dev 1.024

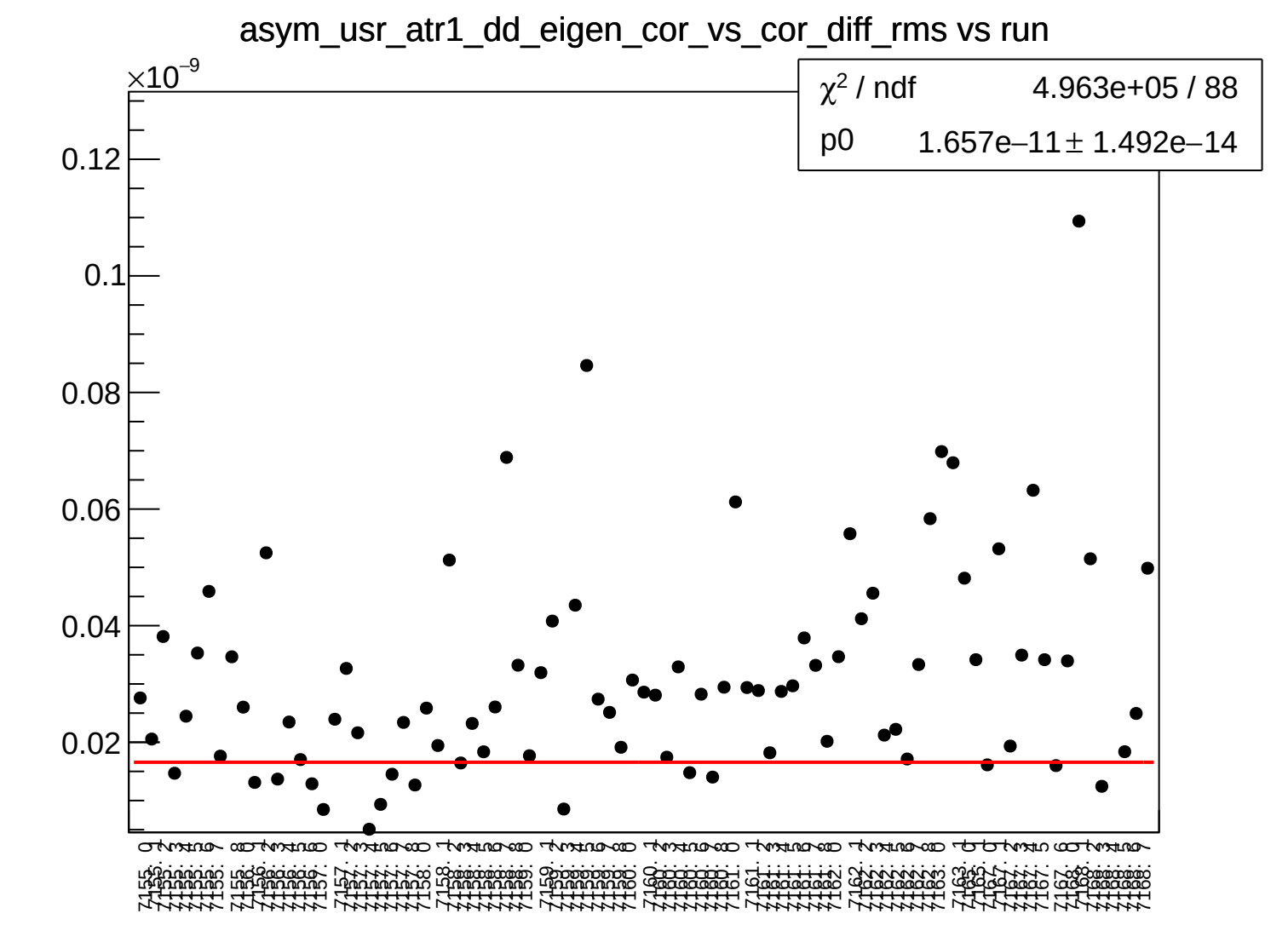

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.432e+05 / 88
p0 36.9 ± 0.03026
100
80
60
40
20

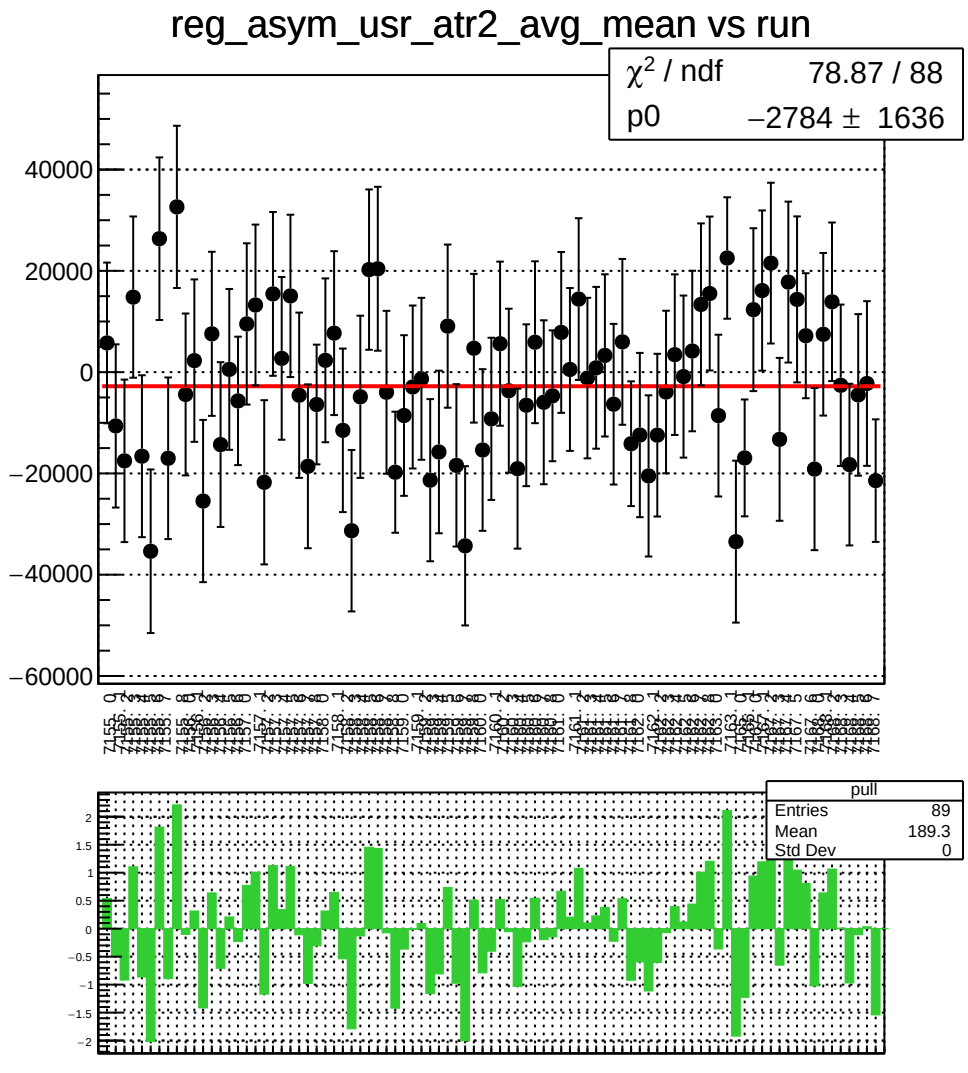

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.43 / 88
p0 0.03438 ± 0.0428
pull
Entries 89
Mean 57.46
Std Dev 0
pull1D
Entries 89
Mean −0.01939
Std Dev 1.024

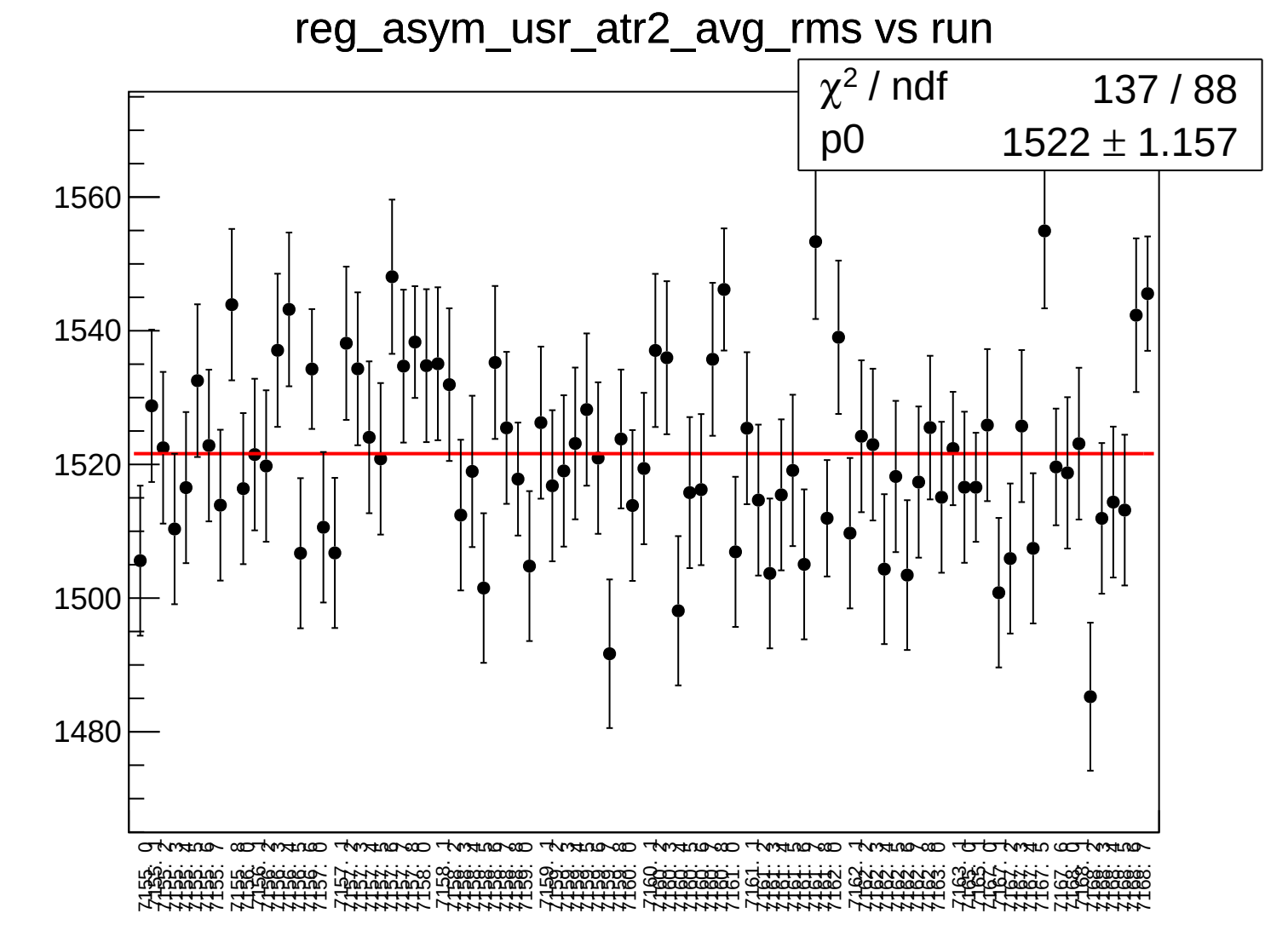

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.432e+05 / 88
p0 36.9 ± 0.03026
100
80
60
40
20

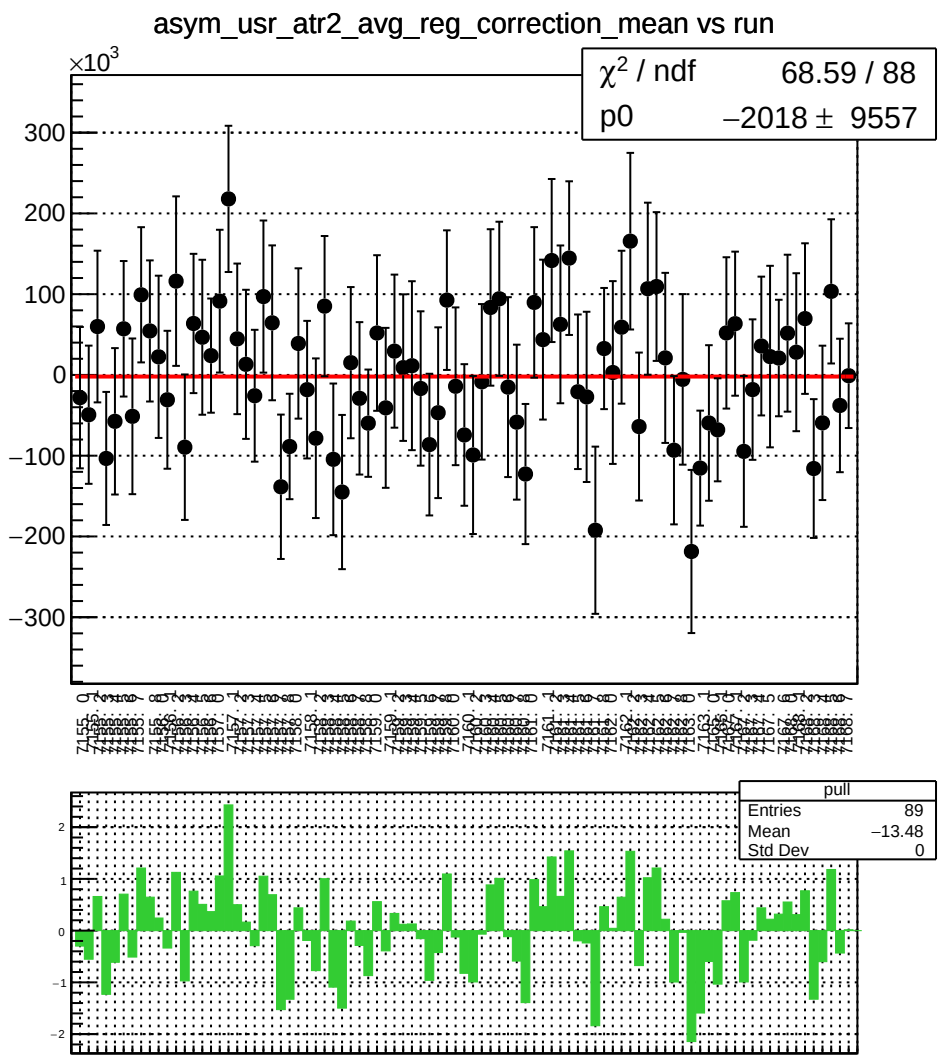

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.52 / 88
p0 −8.698e−15 ± 2.11e−14
pull
Entries 89
Mean −31.3
Std Dev 0

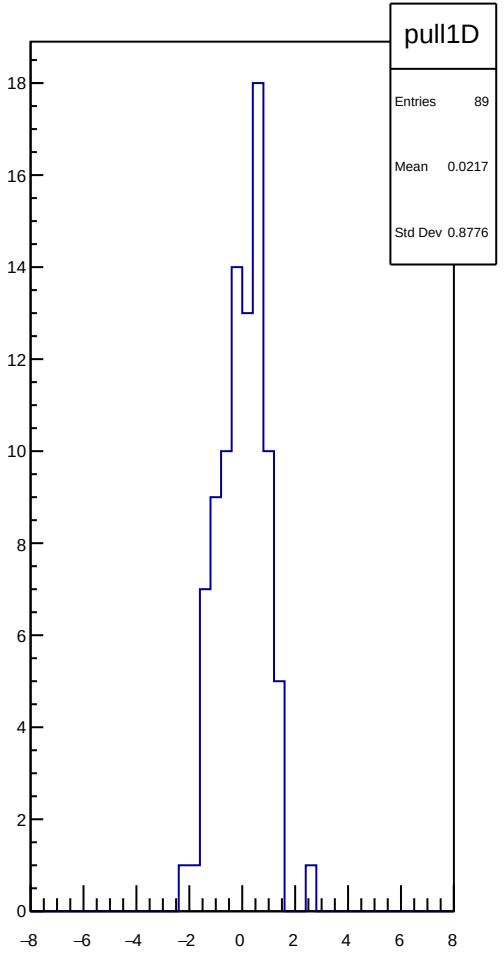

pull1D
Entries 89
Mean 0.04078
Std Dev 1.03

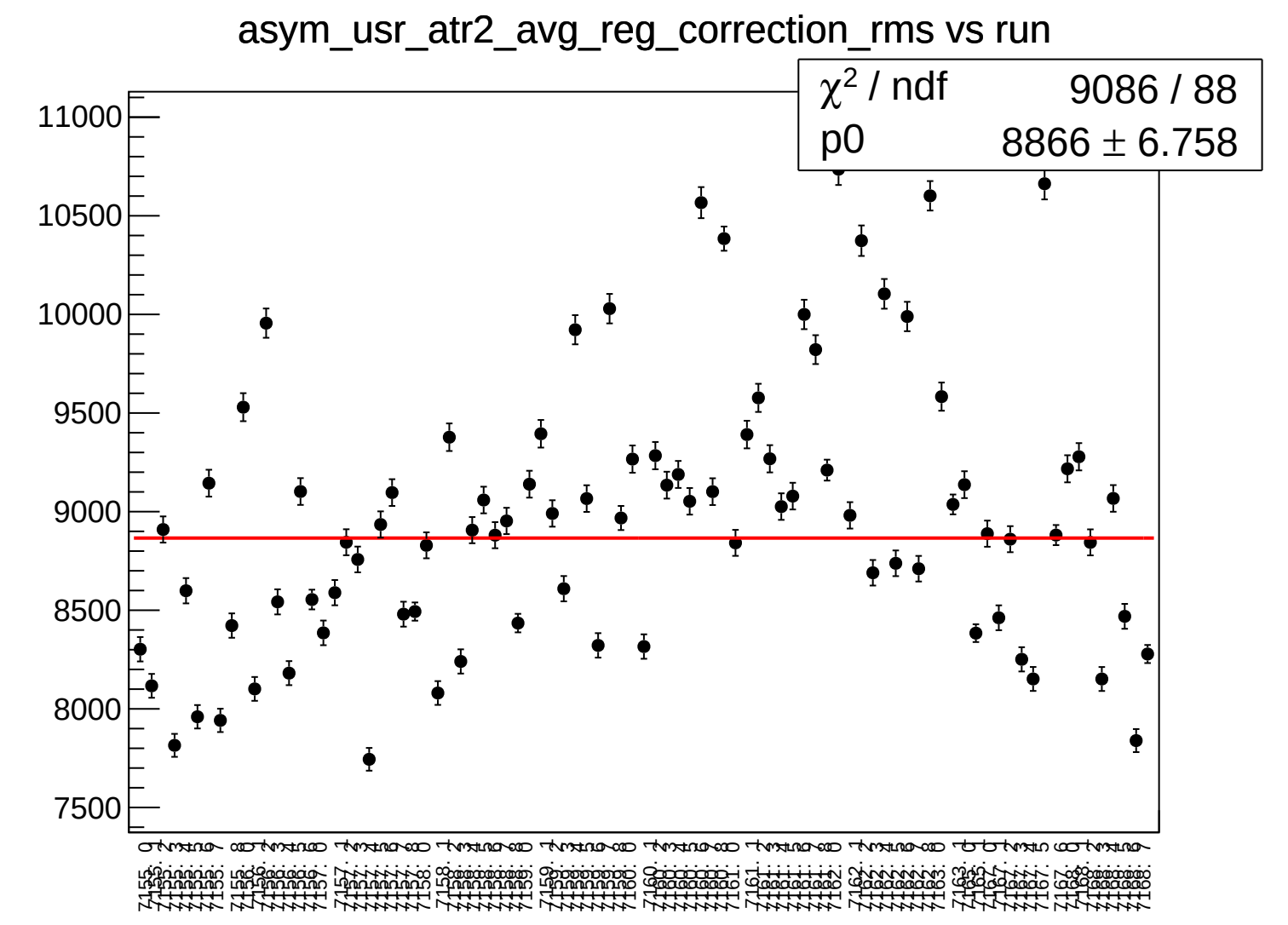

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.963e+05 / 88
p0 1.657e−11 ± 1.492e−14
0.12
0.1
0.08
0.06
0.04
0.02

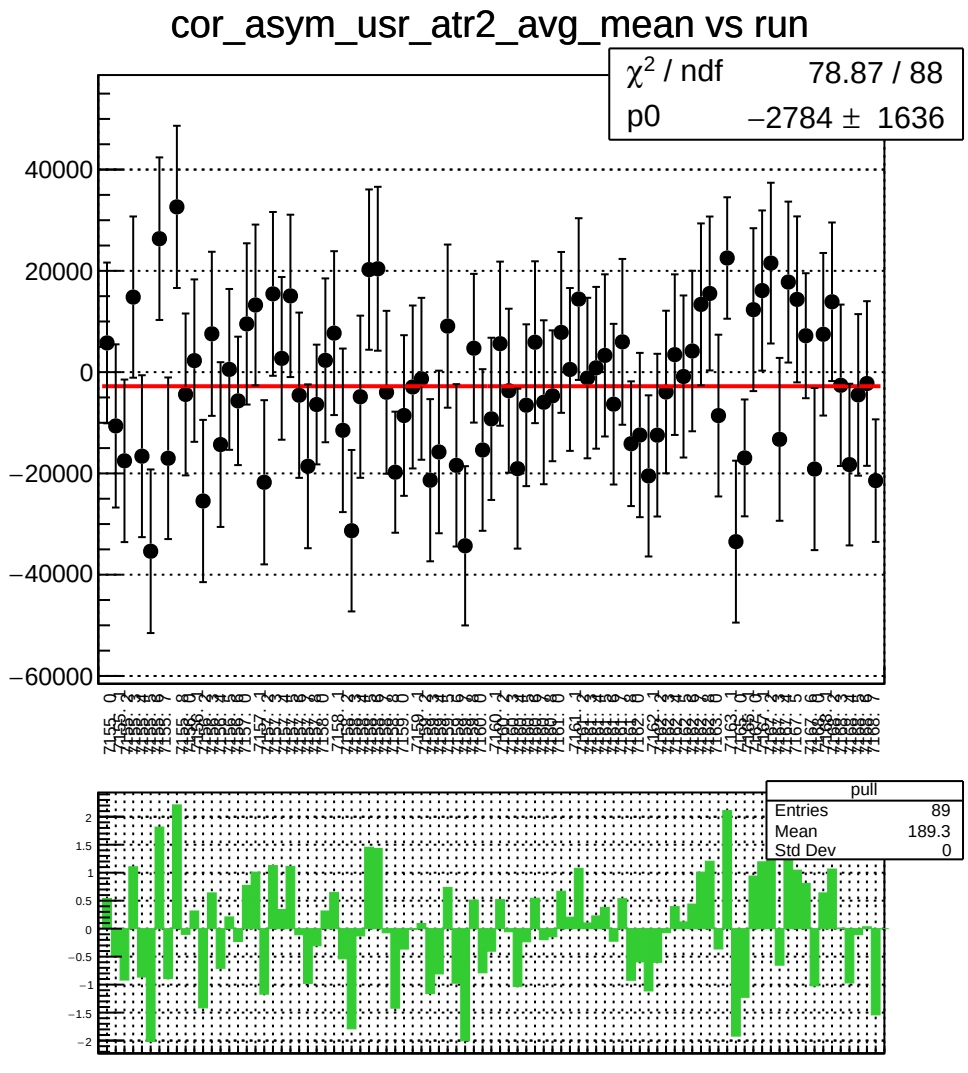

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.87 / 88
p0 −2784 ± 1636
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 189.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.009644
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

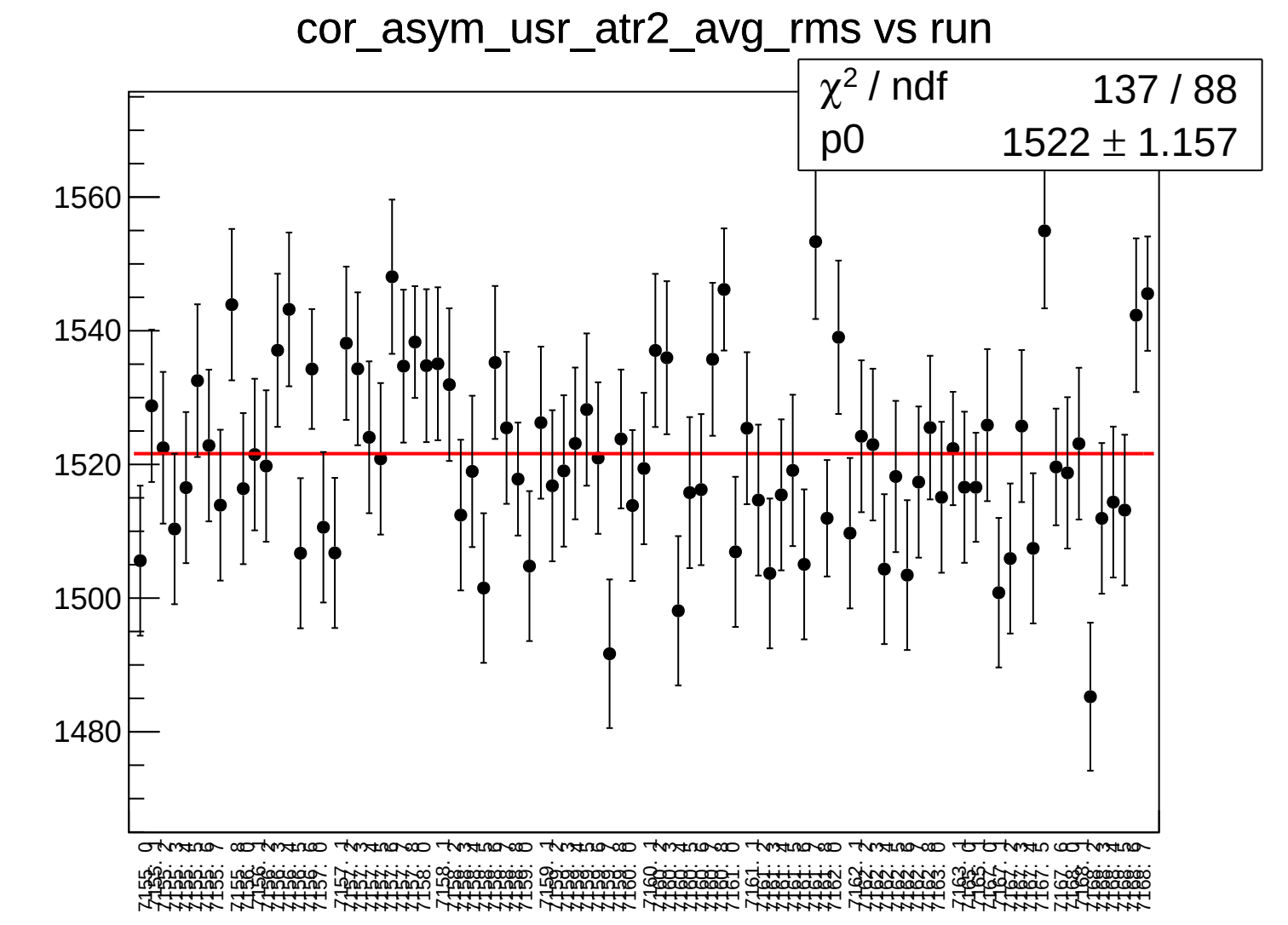

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 88
p0 1522 ± 1.157
1560
1540
1520
1500
1480

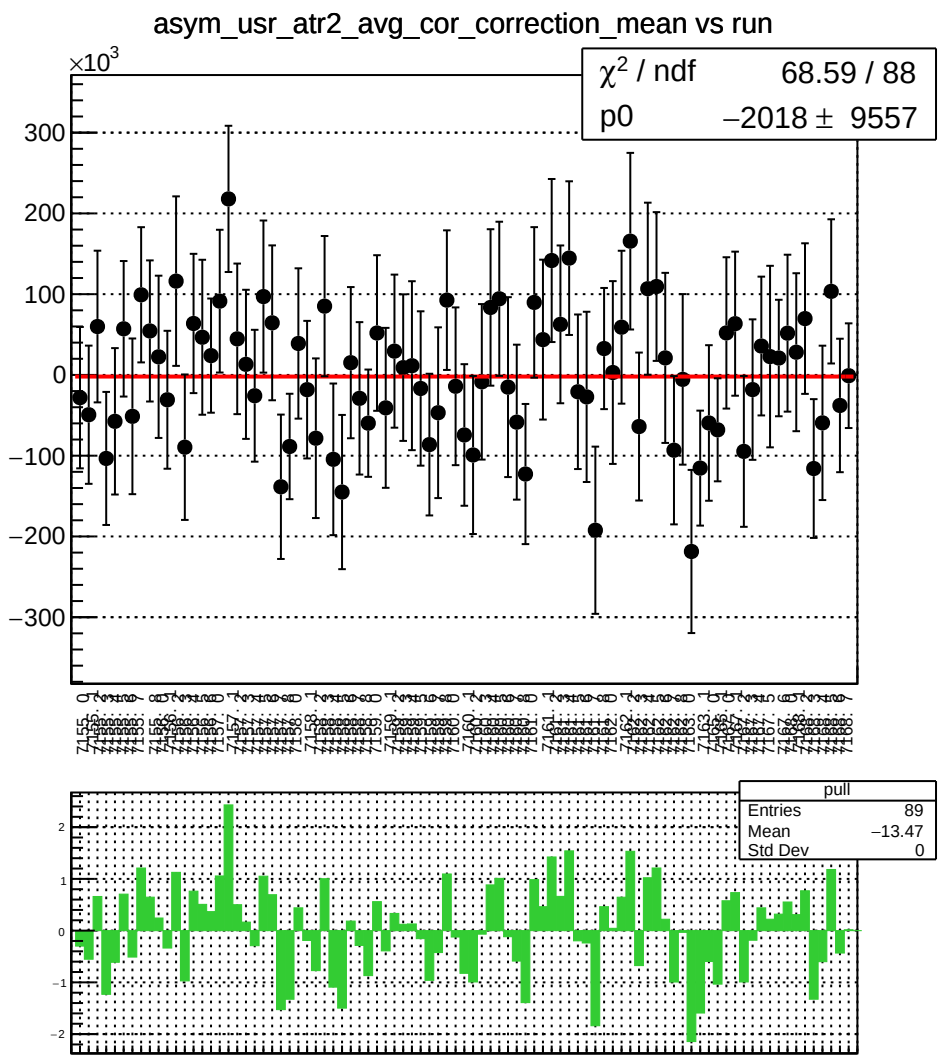

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 68.59 / 88
p0 −2018 ± 9557
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.48
Std Dev 0
2
1
0
−1
−2

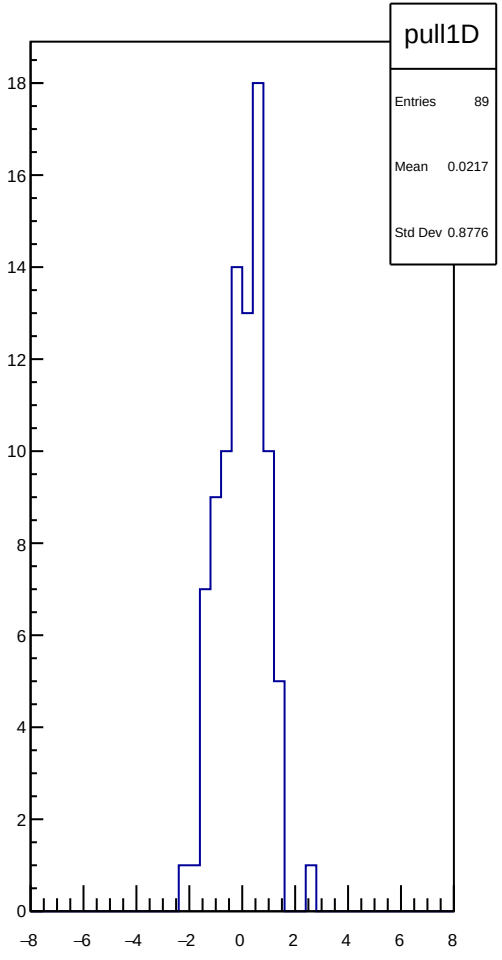

pull1D
Entries 89
Mean 0.0217
Std Dev 0.8776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

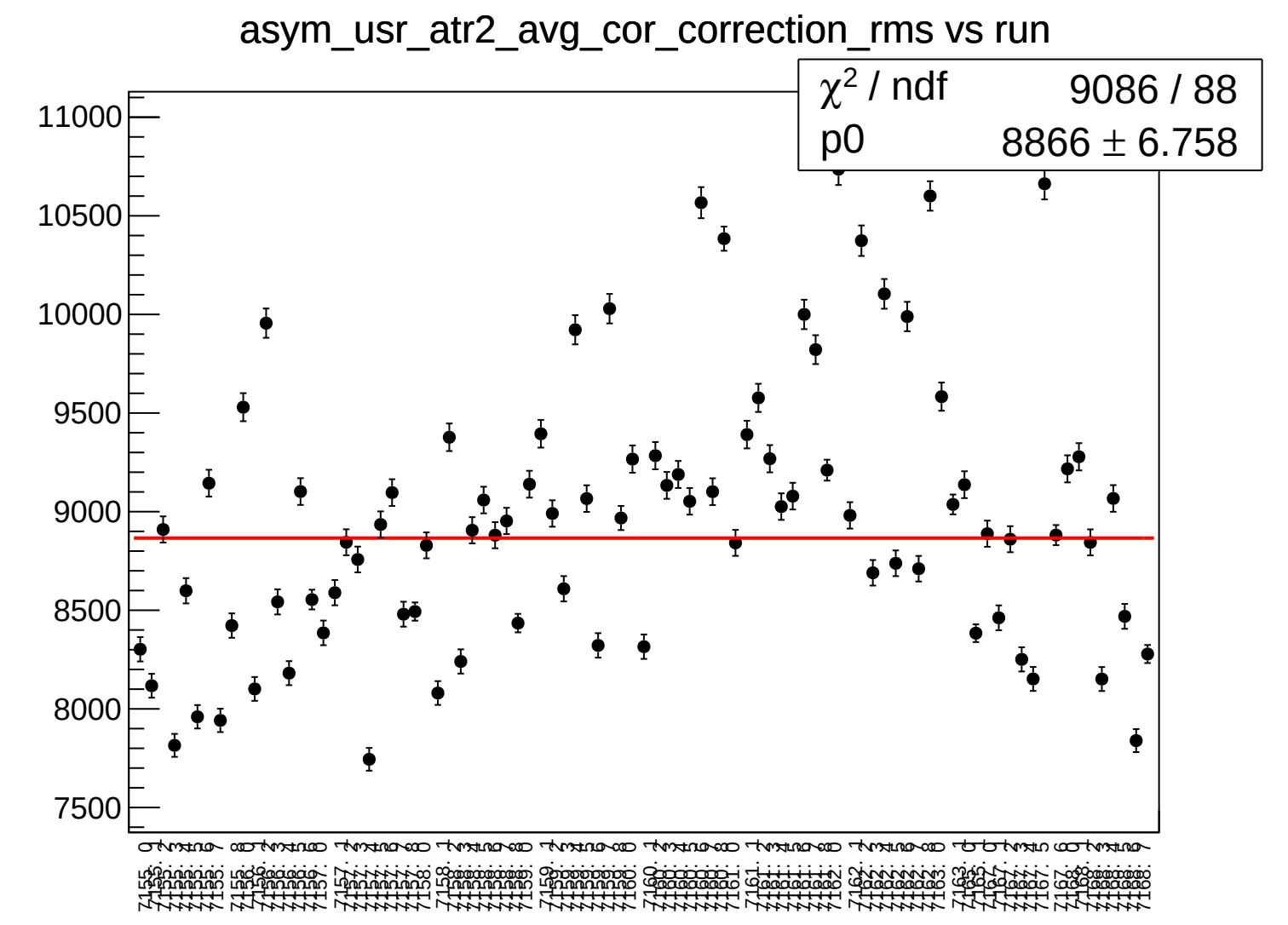

asym_usr_atr2_avg_reg_correction_rms vs run
χ^2 / ndf 9086 / 88
p0 8866 ± 6.758
11000
10500
10000
9500
9000
8500
8000
7500

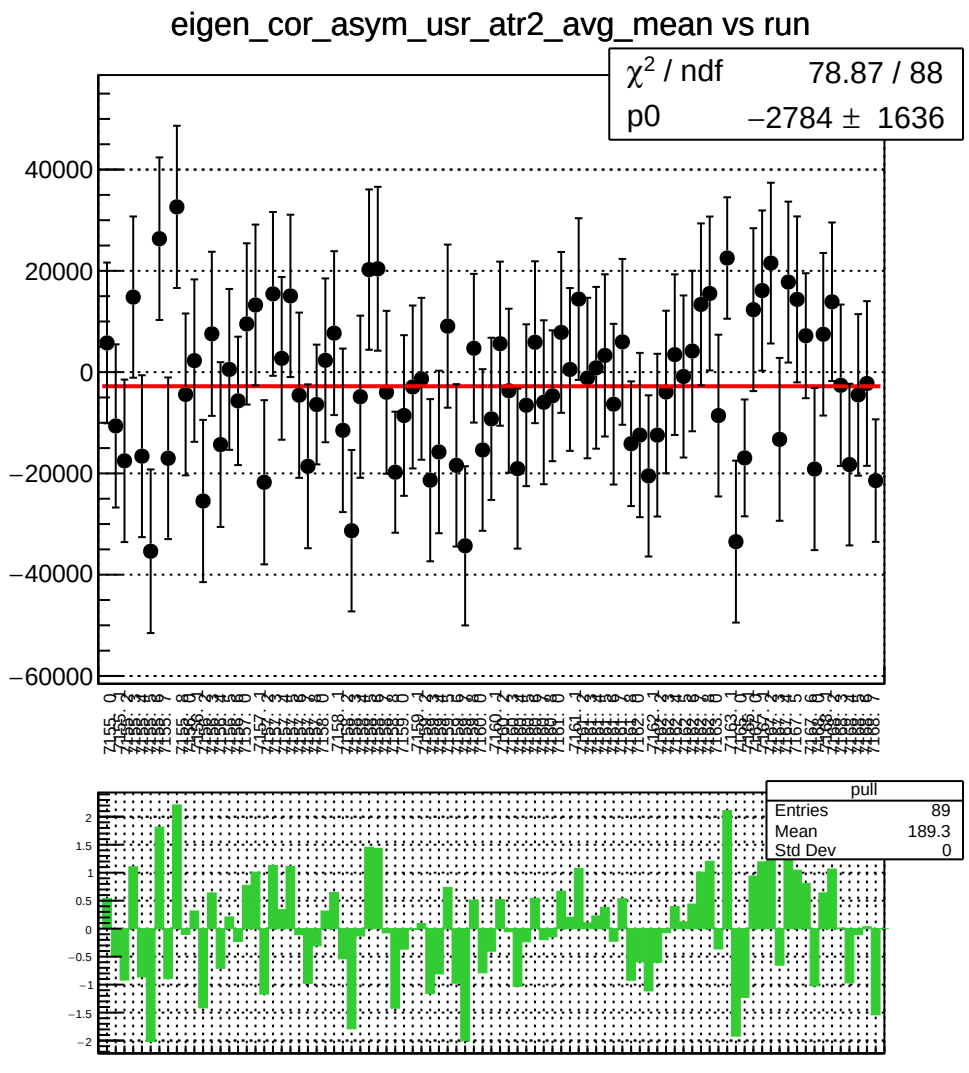

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.87 / 88
p0 −2784 ± 1636
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 189.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.009646
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

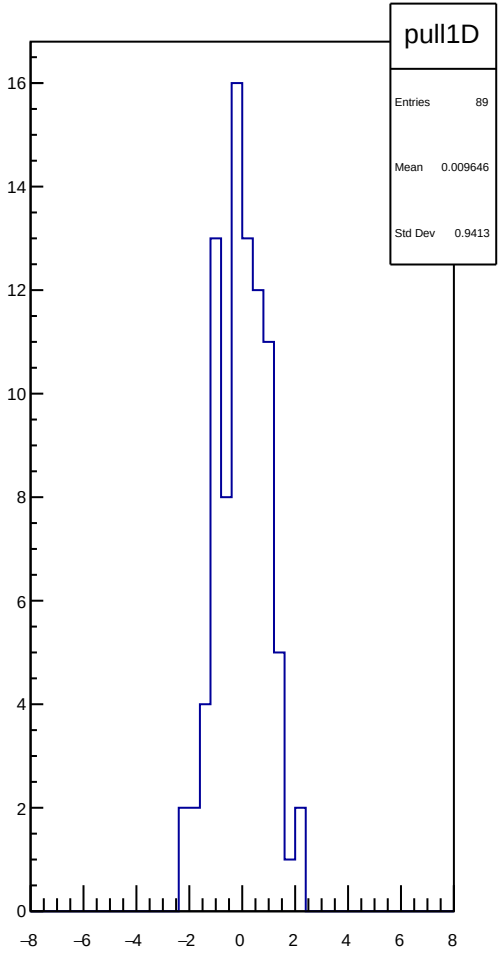

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 88
p0 1522 ± 1.157
1560
1540
1520
1500
1480

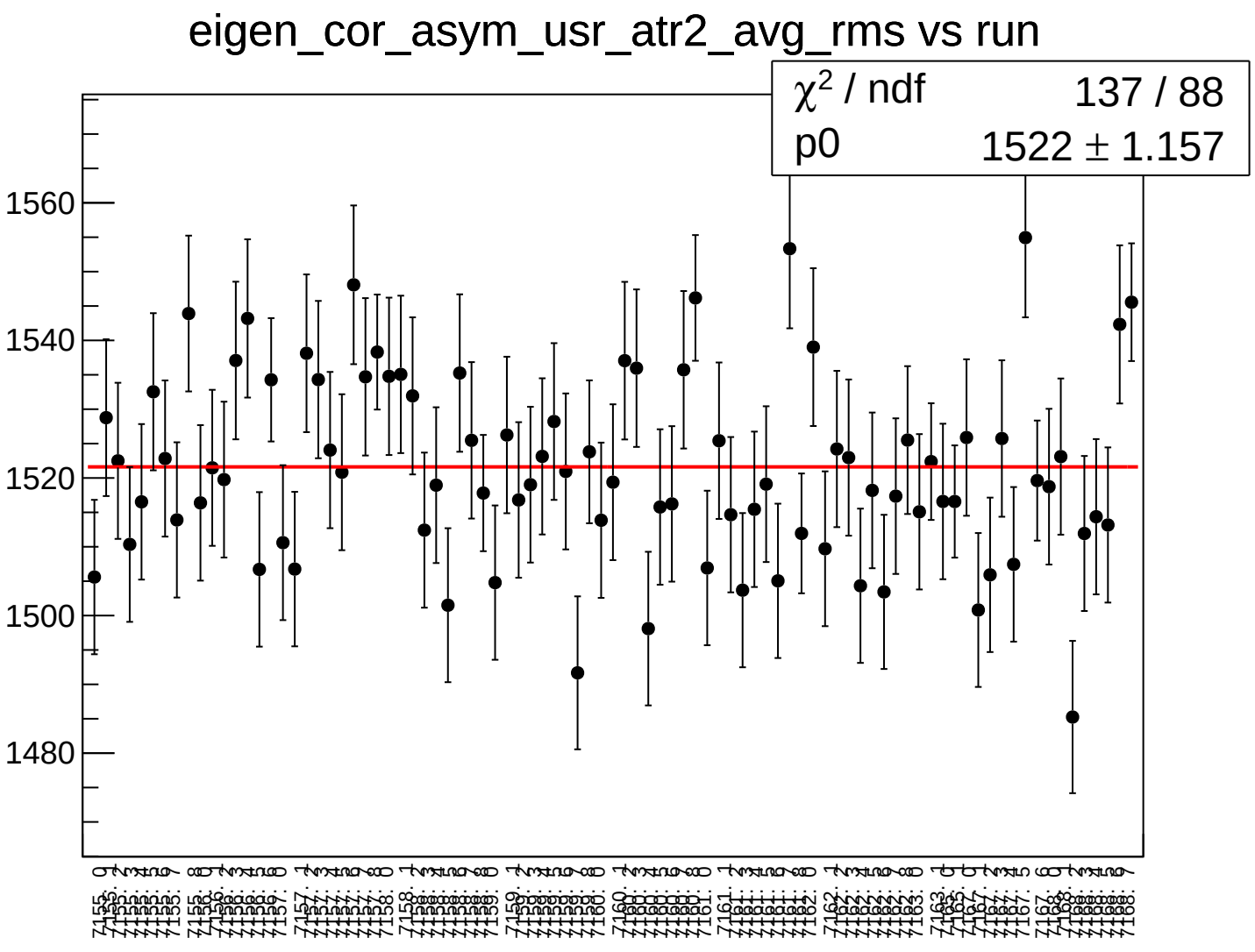

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 68.59 / 88
p0 −2018 ± 9557
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.47
Std Dev 0
2
1
0
−1
−2

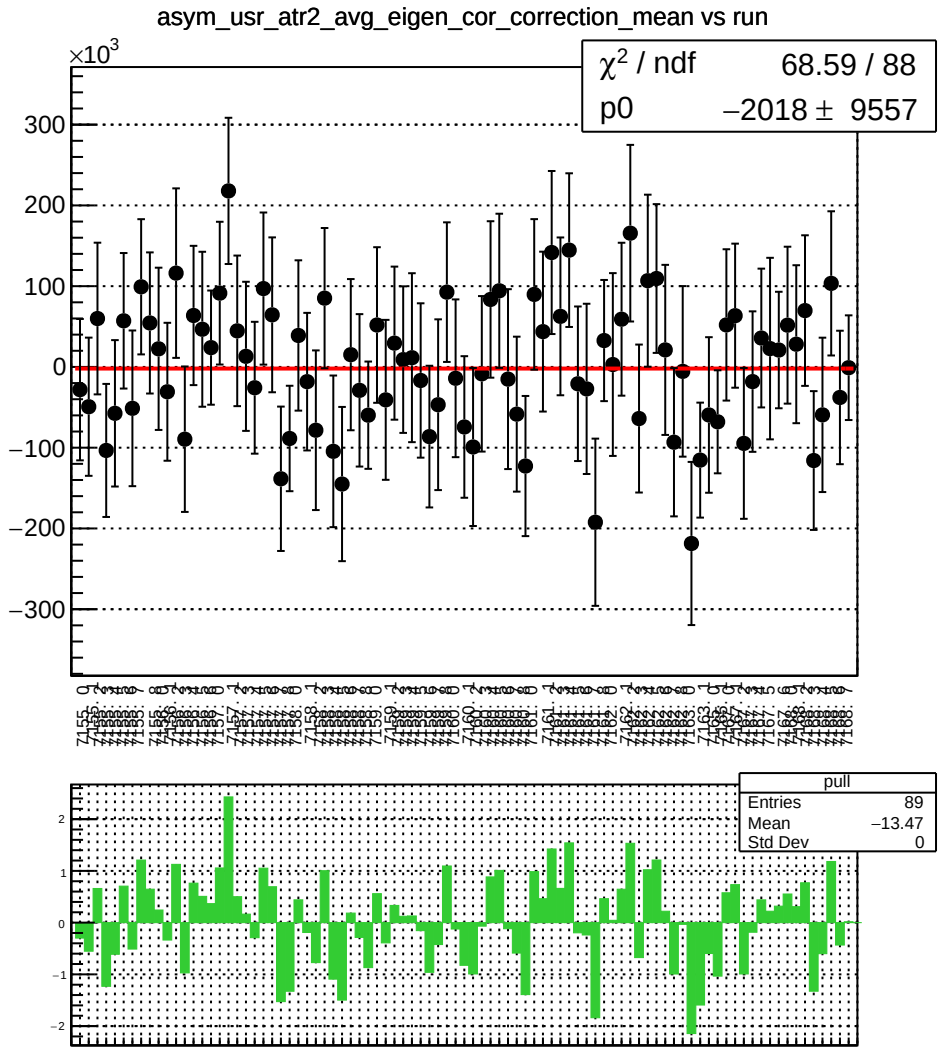

pull1D
Entries 89
Mean 0.0217
Std Dev 0.8776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

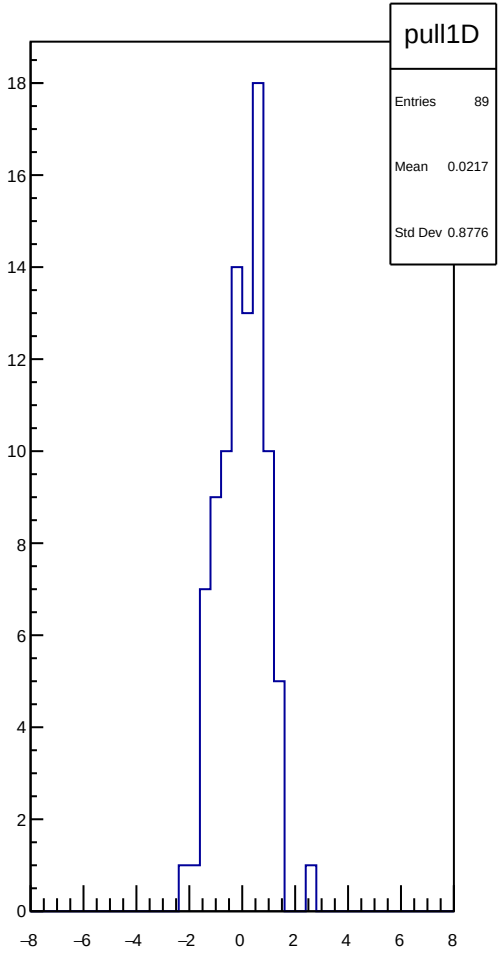

asym_usr_atr2_avg_cor_correction_rms vs run
χ^2 / ndf 9086 / 88
p0 8866 ± 6.758
11000
10500
10000
9500
9000
8500
8000
7500

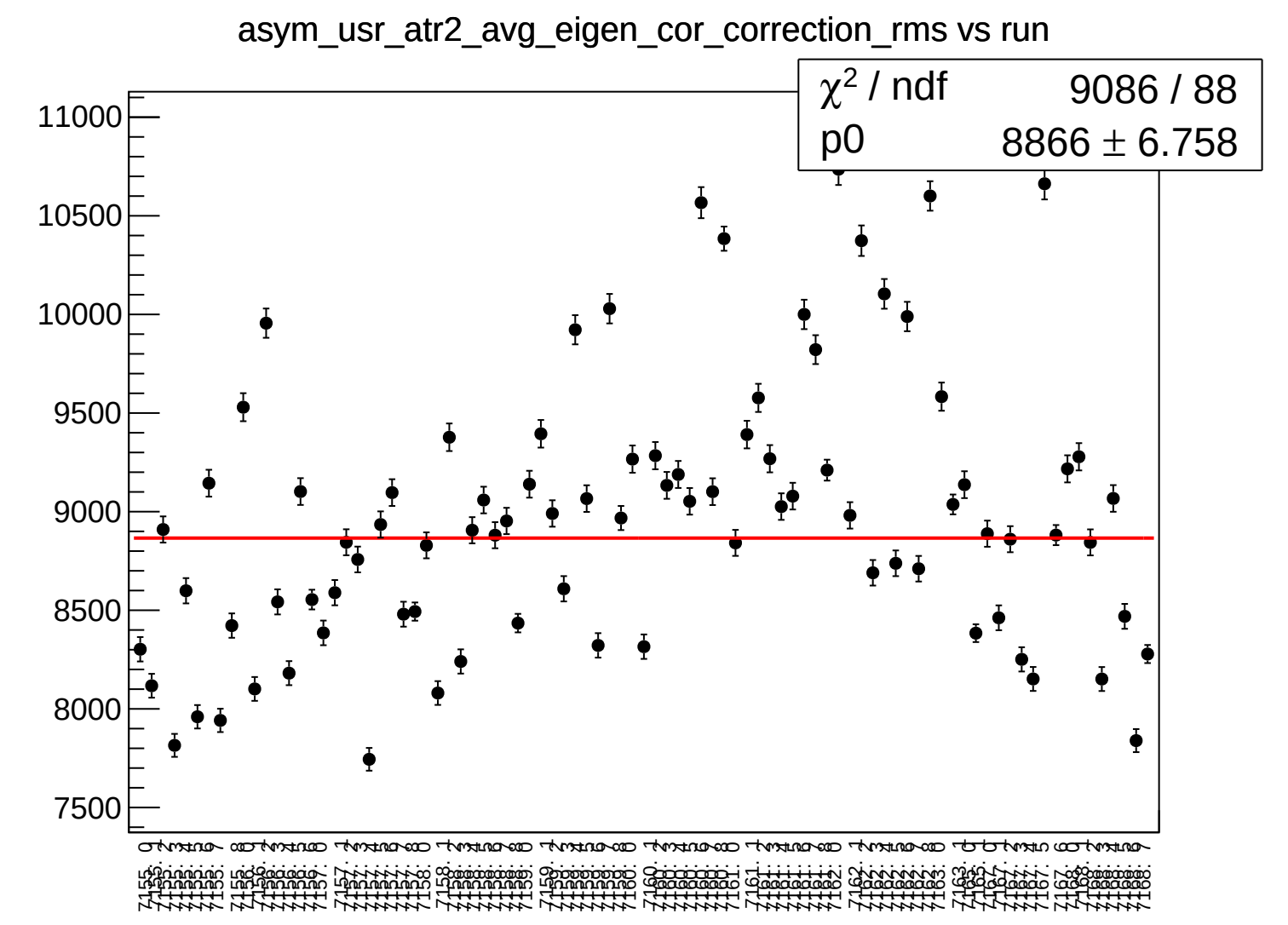

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 78.87 / 88
p0 −2784 ± 1636
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 189.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

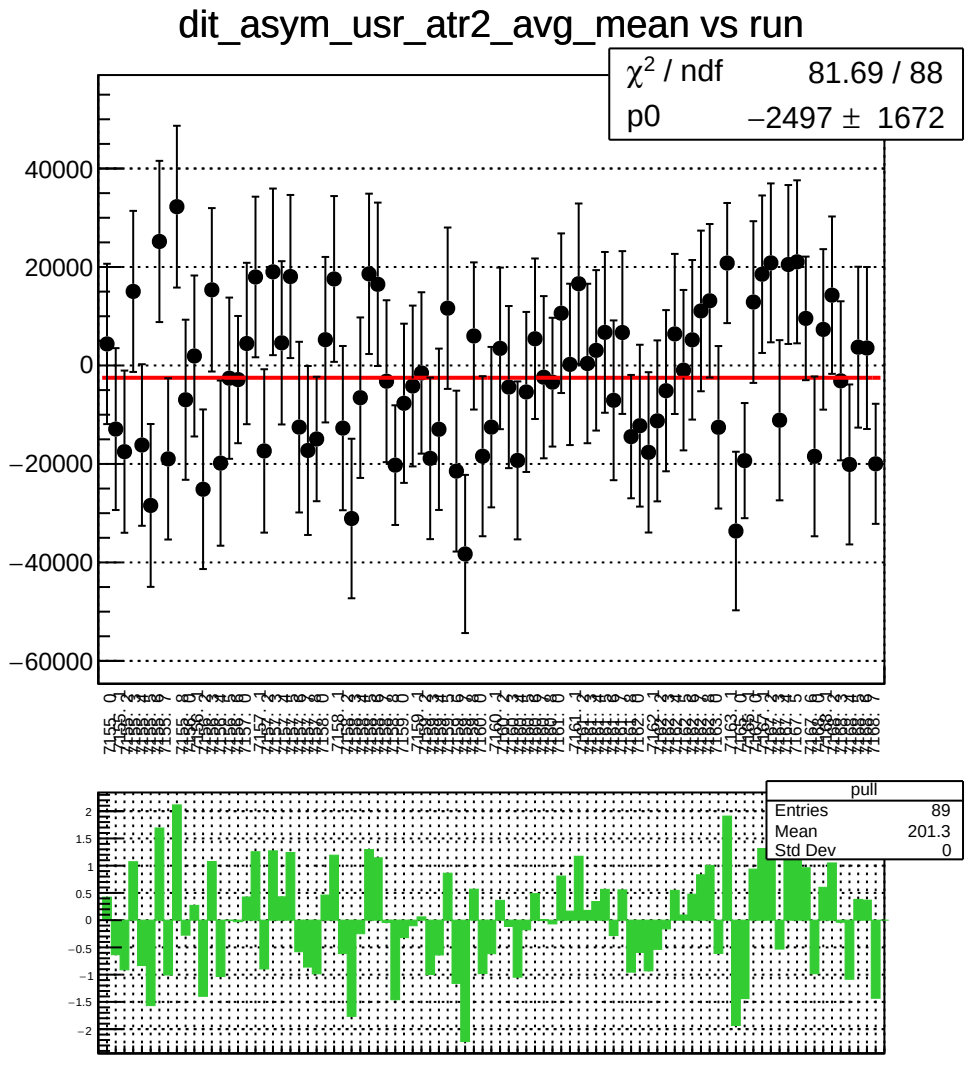

pull1D
Entries 89
Mean 0.009646
Std Dev 0.9413
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

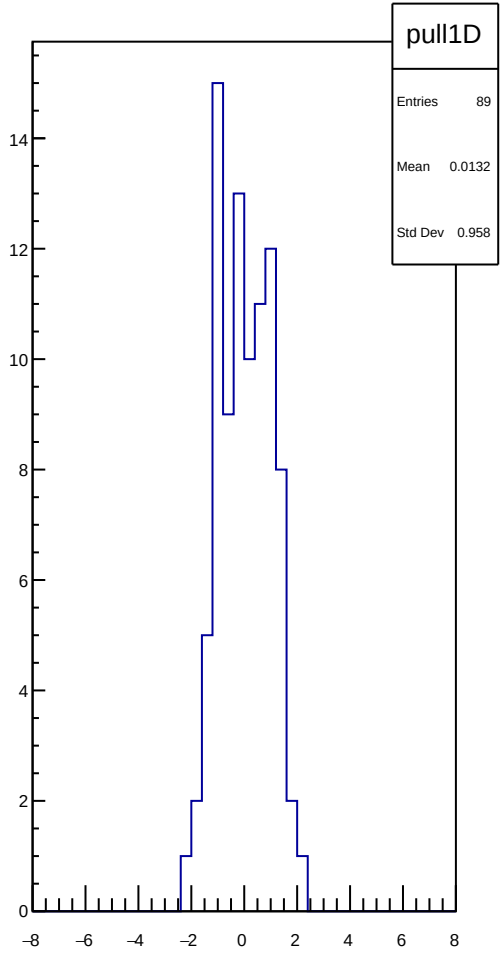

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 137 / 88
p0 1522 ± 1.157
1560
1540
1520
1500
1480

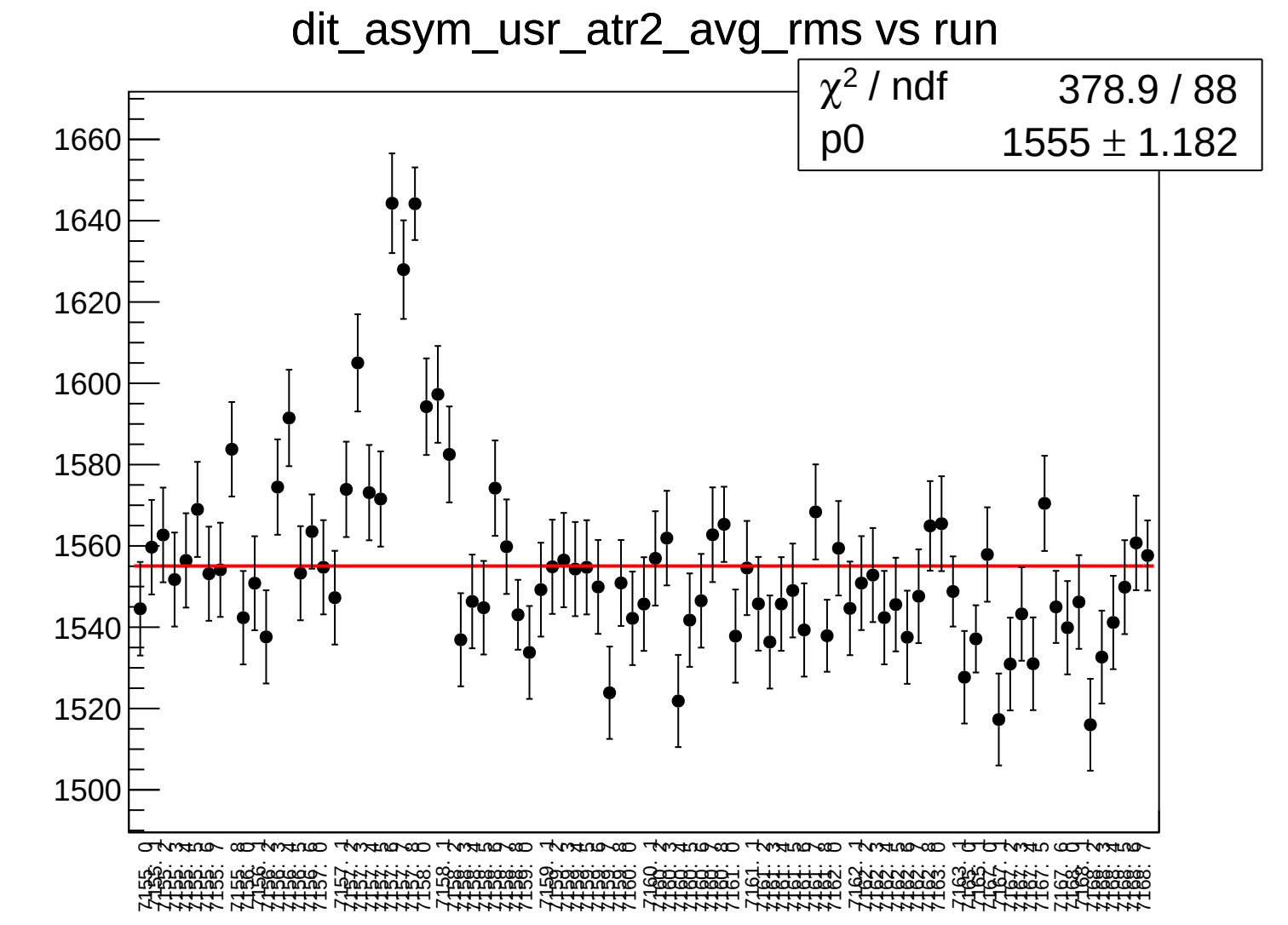

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 68.59 / 88
p0 −2018 ± 9557
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −13.47
Std Dev 0
2
1
0
−1
−2

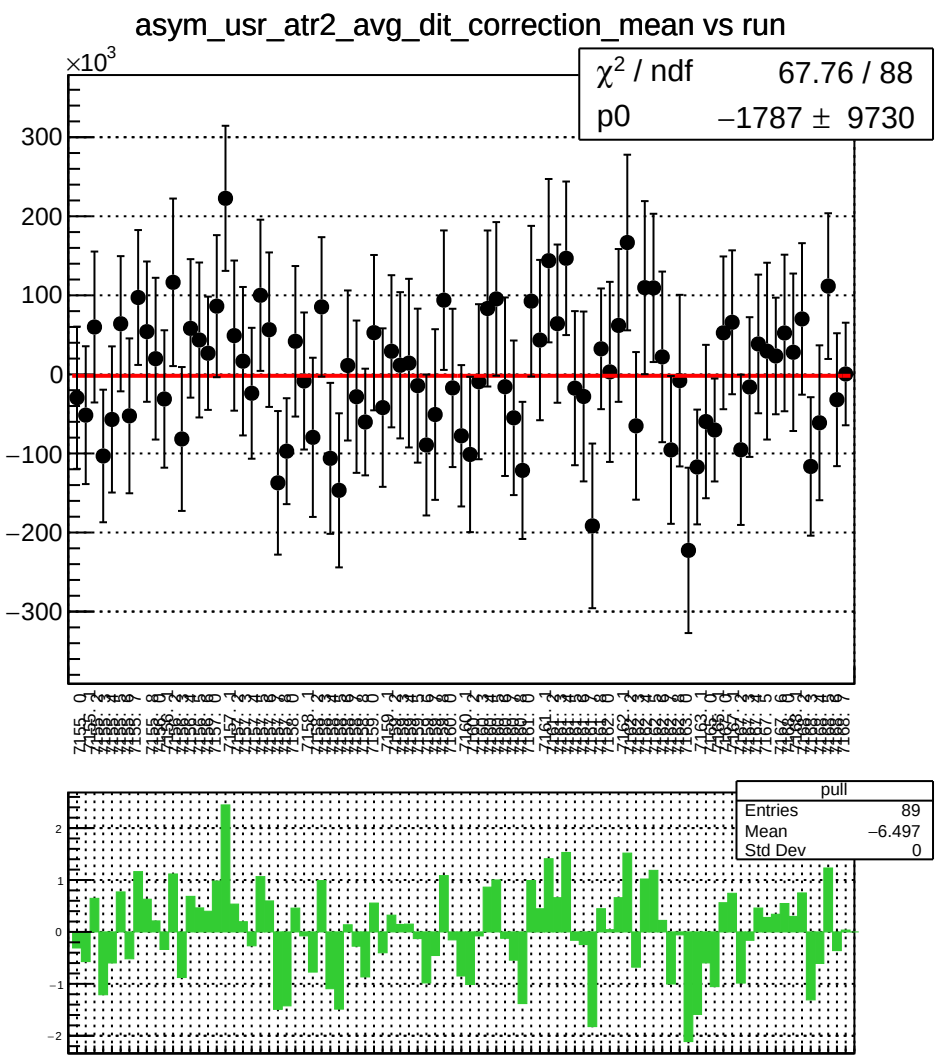

pull1D
Entries 89
Mean 0.0217
Std Dev 0.8776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

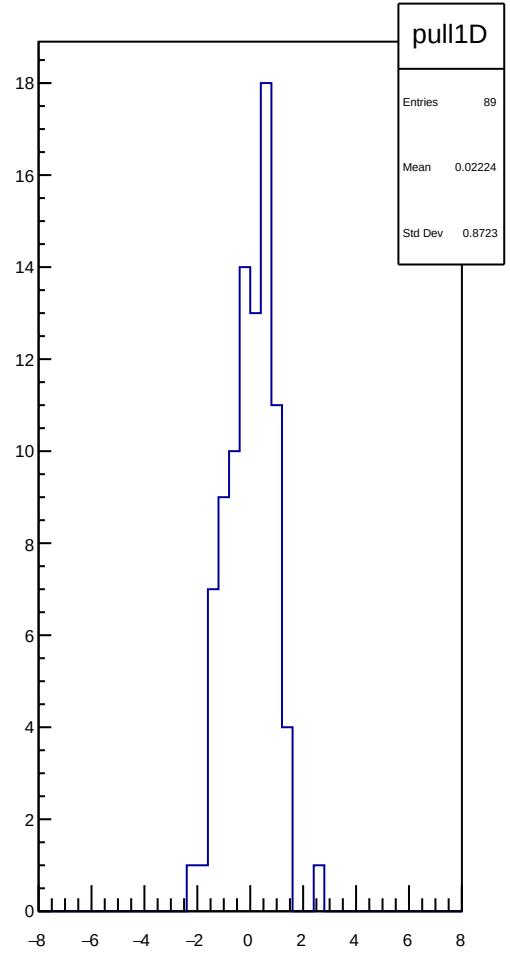

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 9086 / 88
p0 8866 ± 6.758
11000
10500
10000
9500
9000
8500
8000
7500

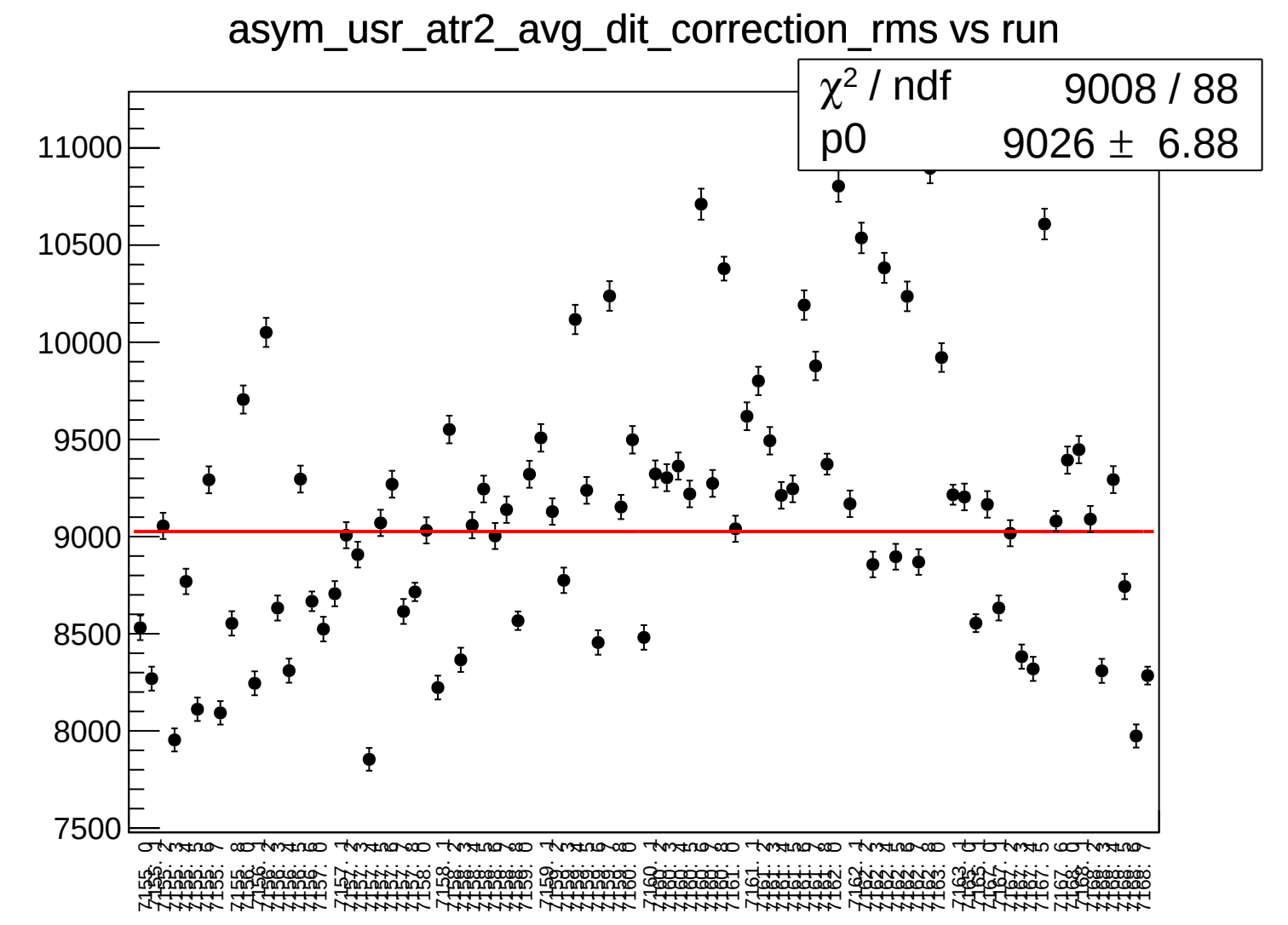

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.69 / 88
p0 −2497 ± 1672
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 201.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

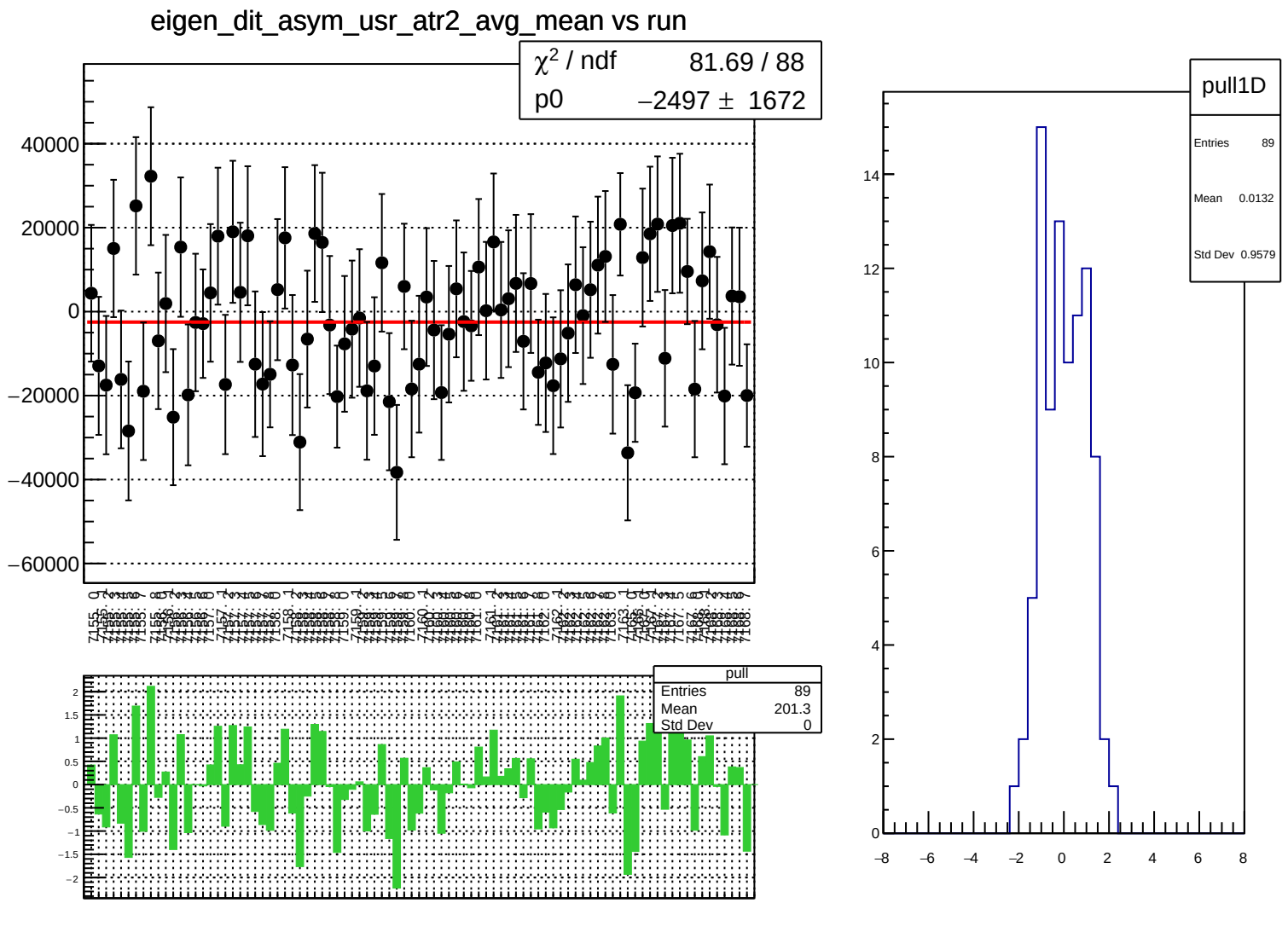

pull1D
Entries 89
Mean 0.0132
Std Dev 0.958
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

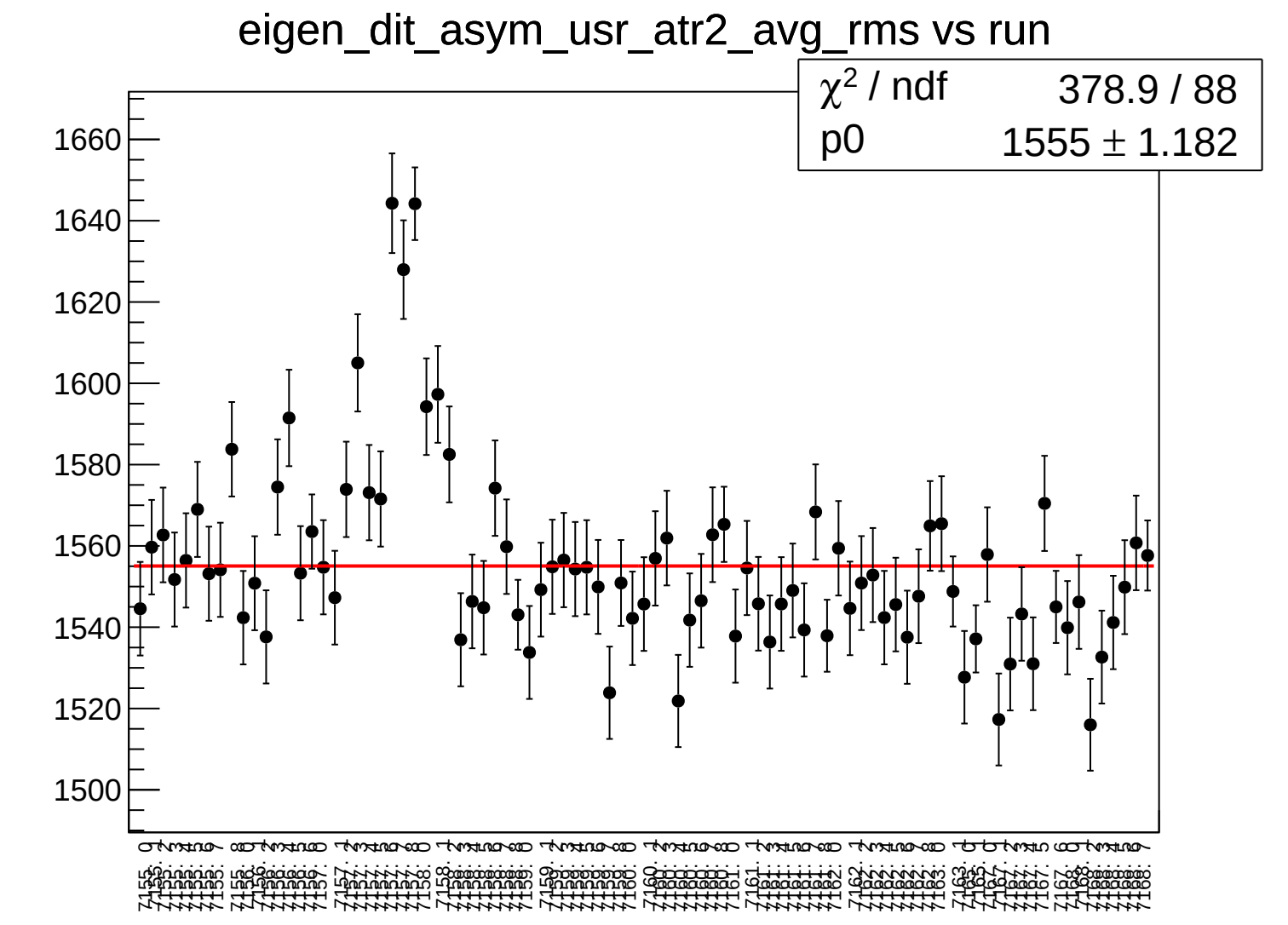

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 378.9 / 88
p0 1555 ± 1.182
1660
1640
1620
1600
1580
1560
1540
1520
1500

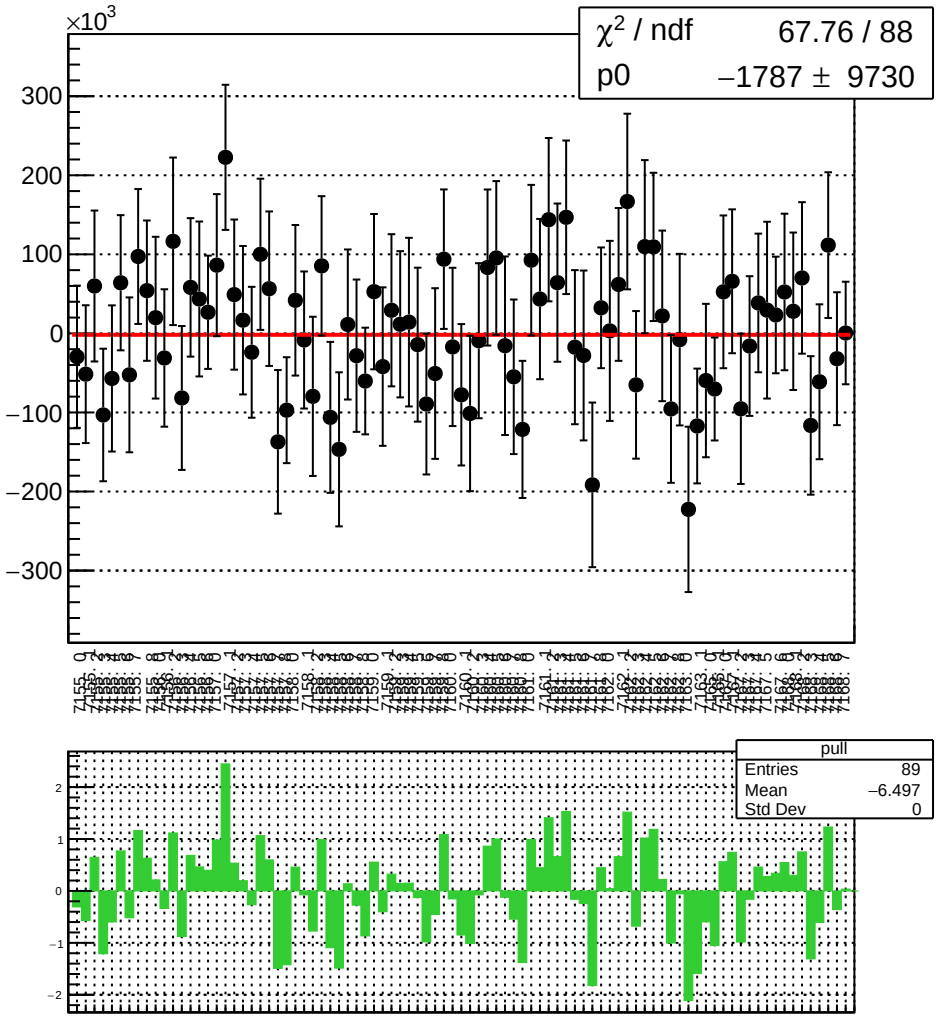

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 67.76 / 88
p0 −1787 ± 9730
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −6.497
Std Dev 0
2
1
0
−1
−2

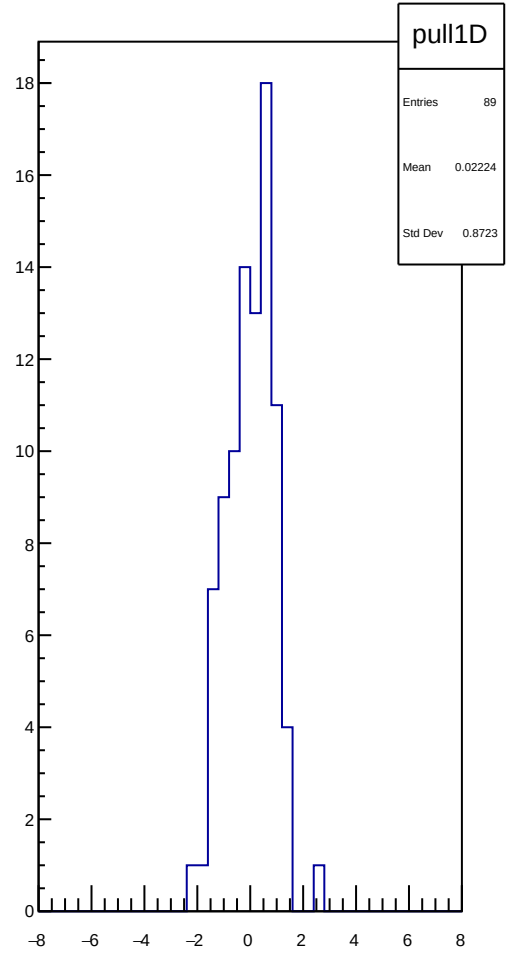

pull1D
Entries 89
Mean 0.02224
Std Dev 0.8723
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

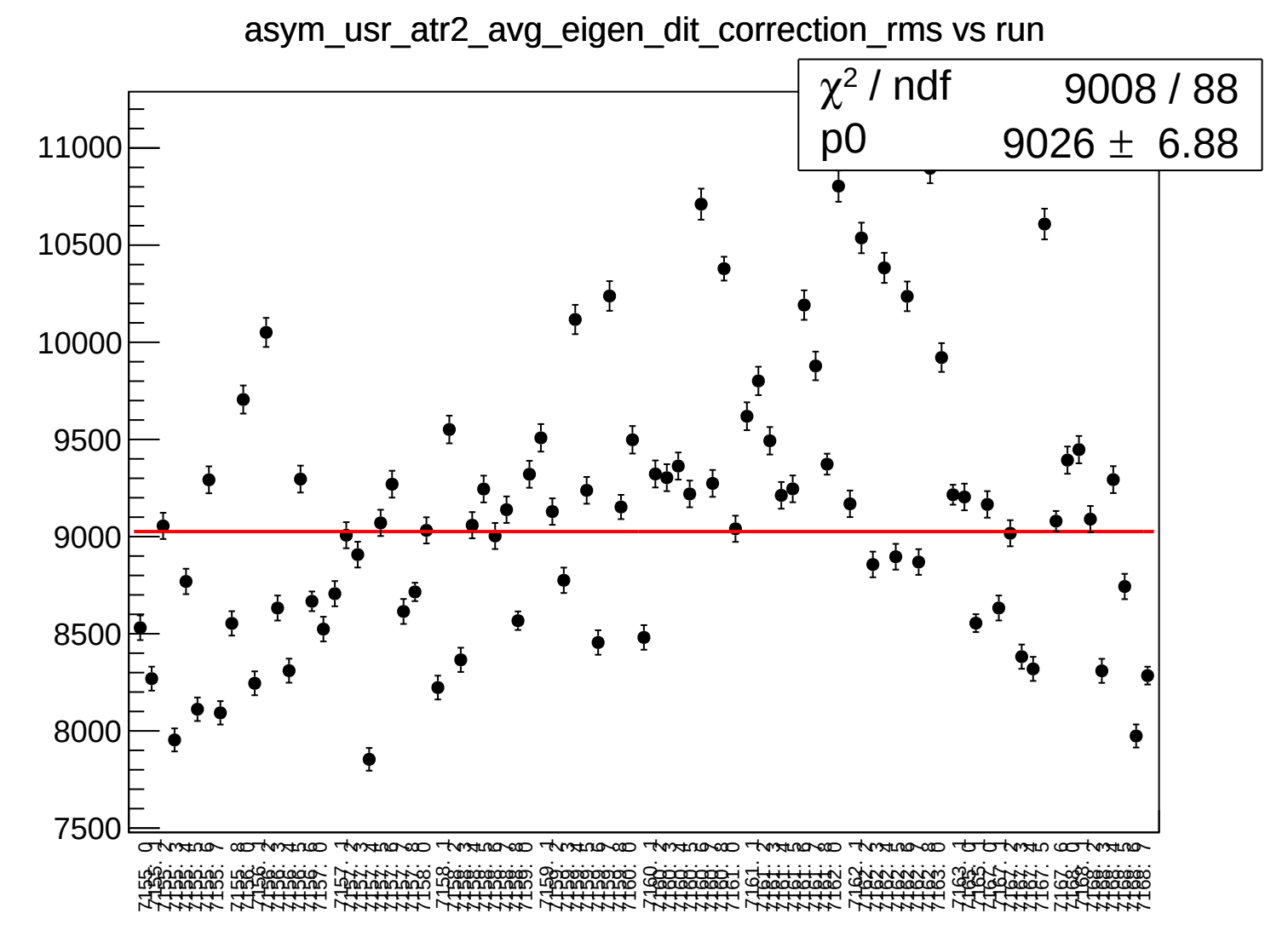

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 9008 / 88
p0 9026 ± 6.88
11000
10500
10000
9500
9000
8500
8000
7500

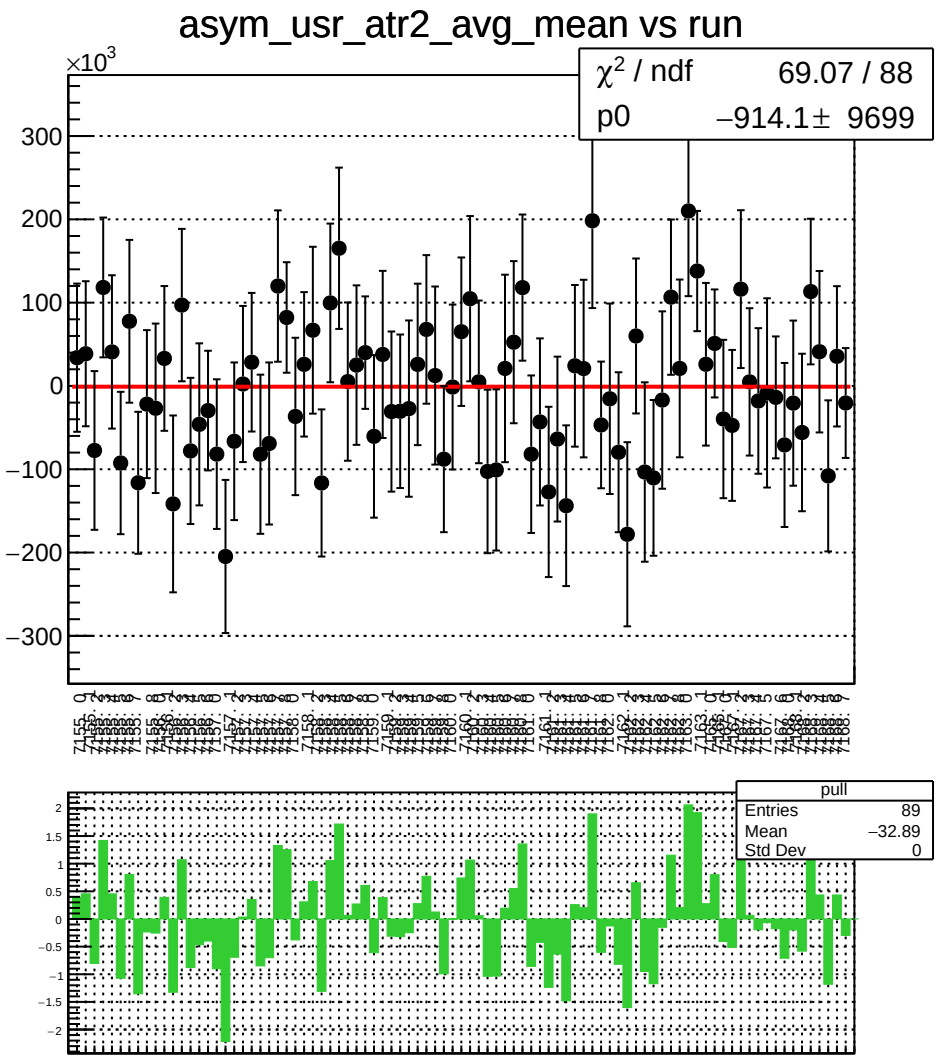

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.69 / 88
p0 −2497 ± 1672
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 201.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.0132
Std Dev 0.9579
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

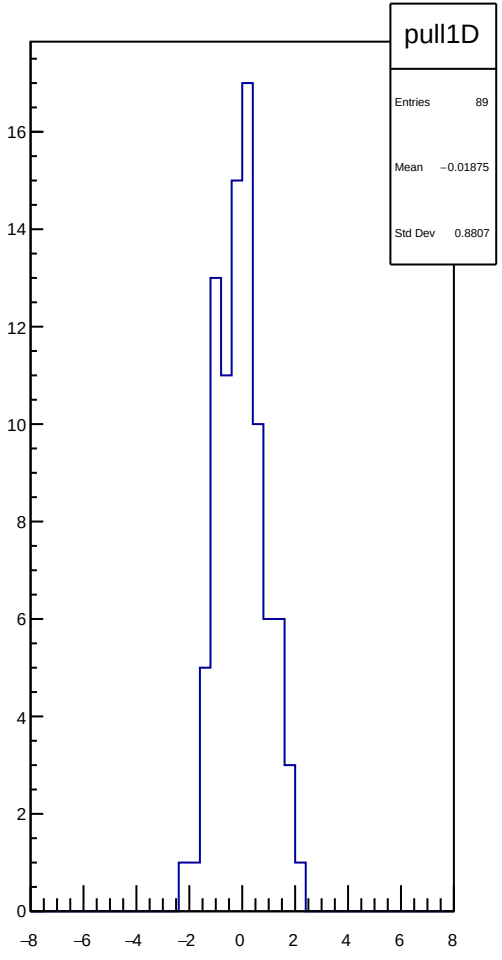

eigen_dit_asym_usr_atr2_avg_rms vs run
χ^2 / ndf 378.9 / 88
p0 1555 ± 1.182
1660
1640
1620
1600
1580
1560
1540
1520
1500

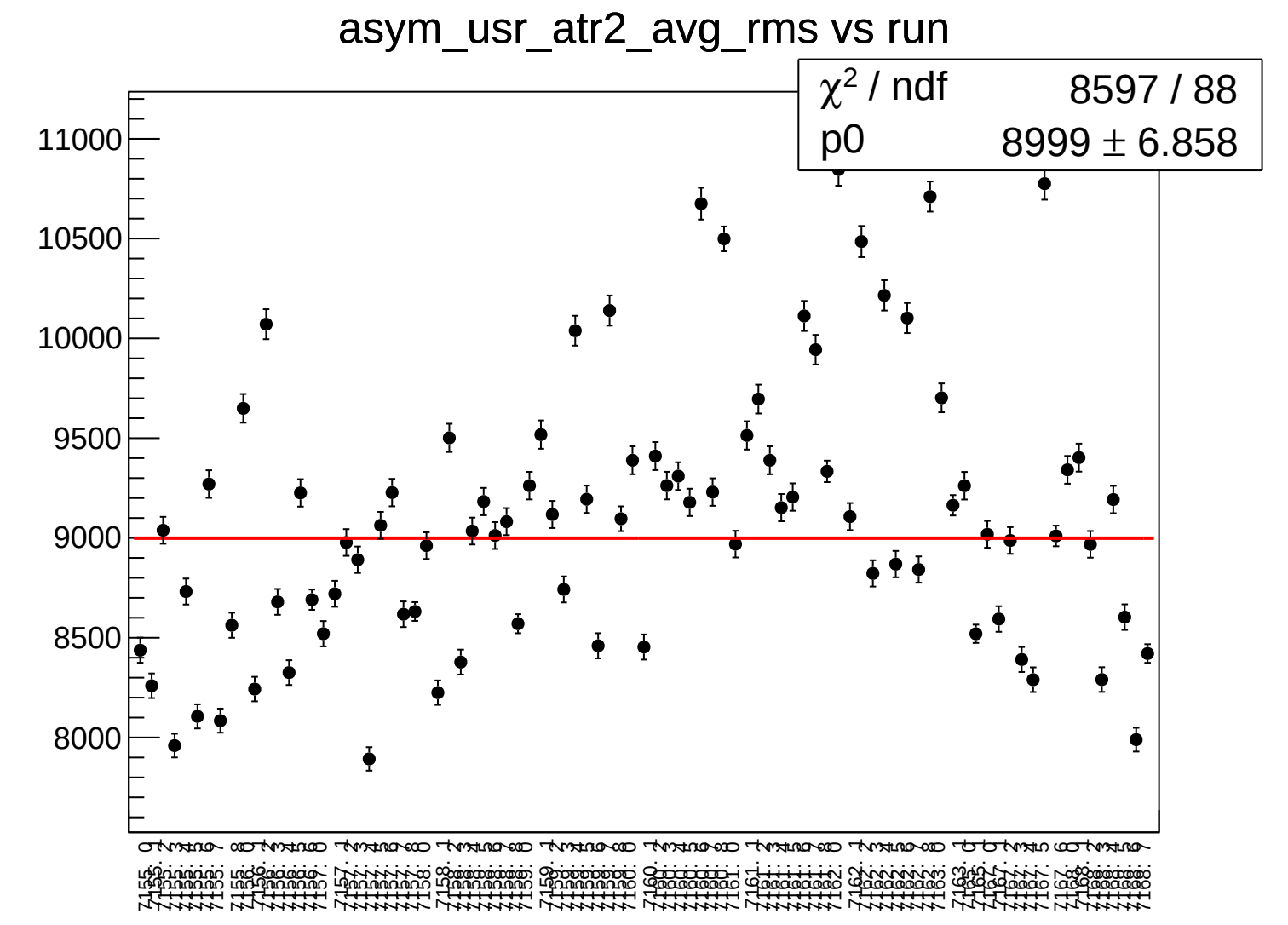

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 67.76 / 88
p0 −1787 ± 9730
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −6.497
Std Dev 0
2
1
0
−1
−2

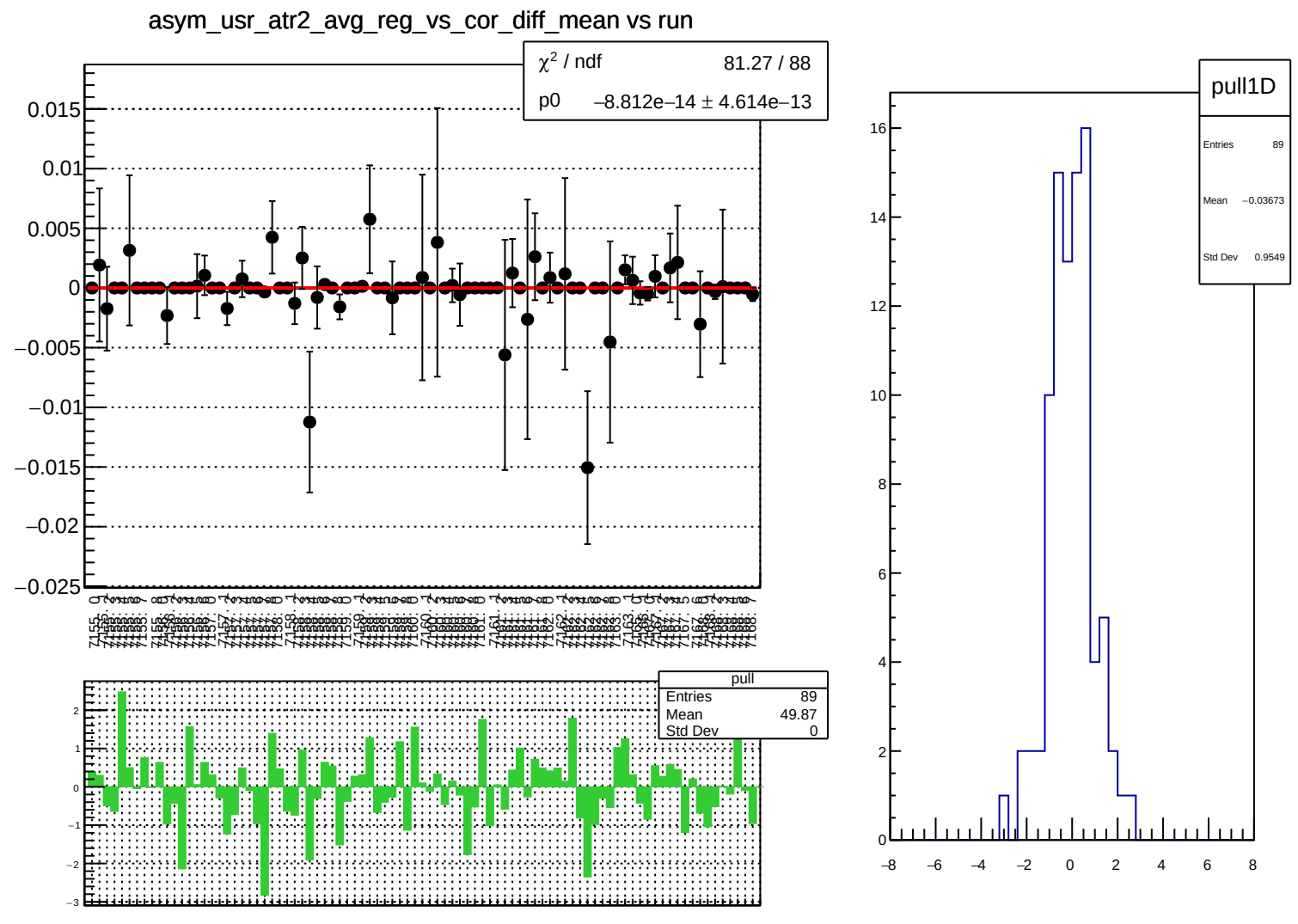

pull1D
Entries 89
Mean 0.02224
Std Dev 0.8723
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

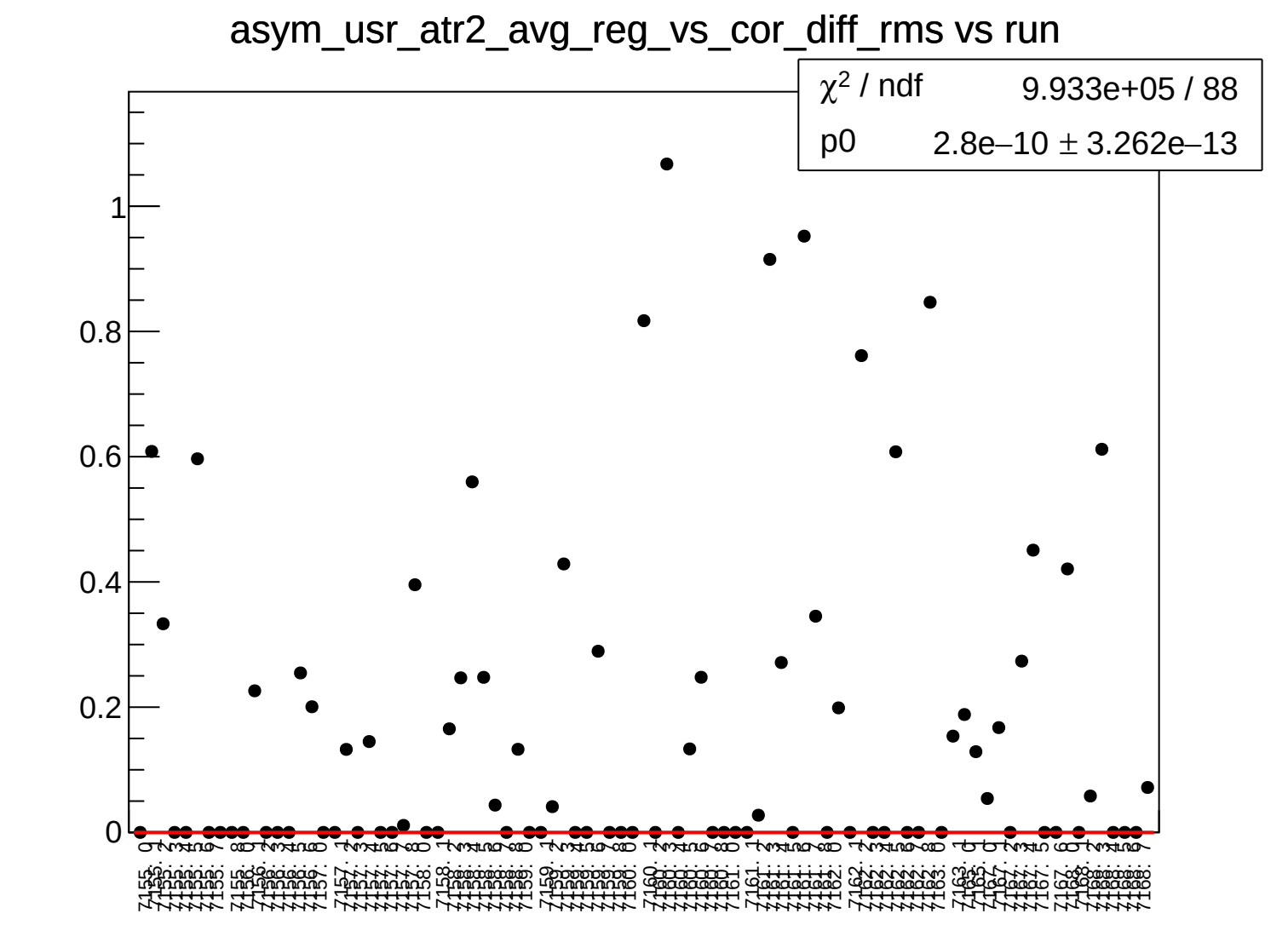

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 9008 / 88
p0 9026 ± 6.88
11000
10500
10000
9500
9000
8500
8000
7500

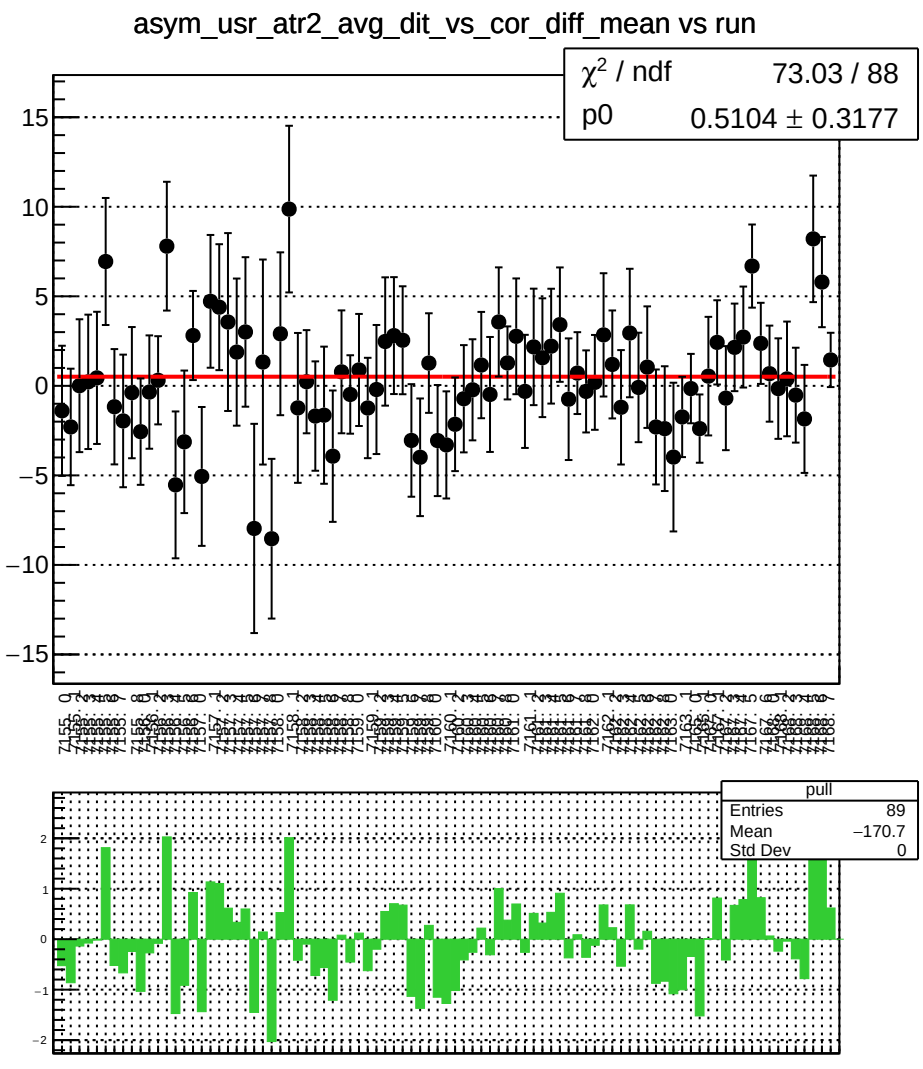

asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 69.07 / 88
p0 −914.1± 9699
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −32.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

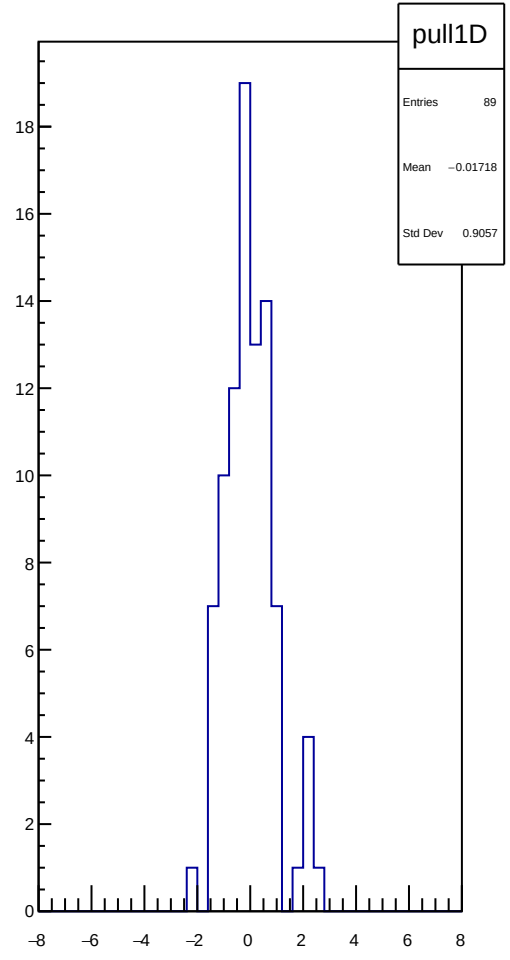

pull1D
Entries 89
Mean −0.01875
Std Dev 0.8807
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

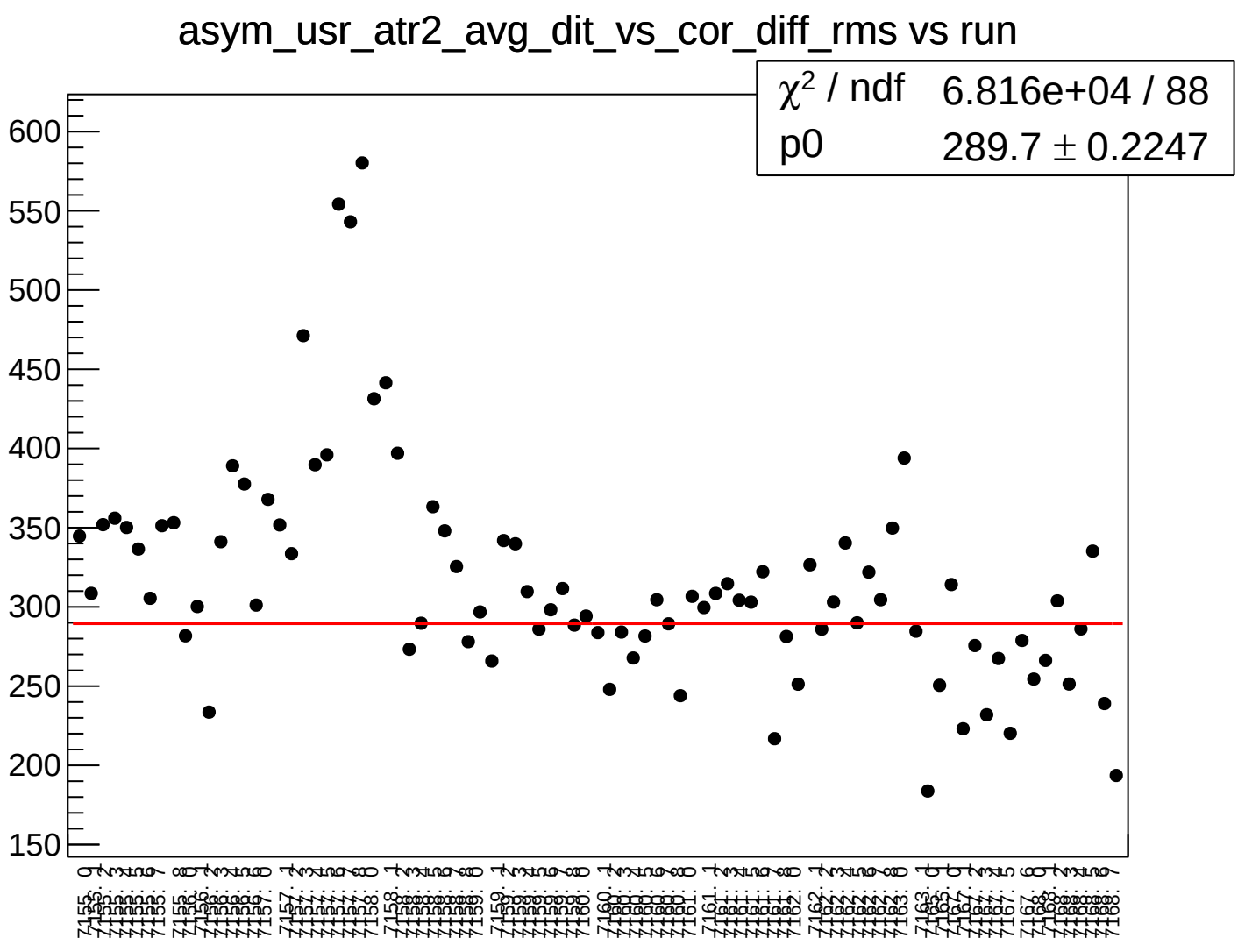

asym_usr_atr2_avg_rms vs run
χ² / ndf 8597 / 88
p0 8999 ± 6.858
11000
10500
10000
9500
9000
8500
8000

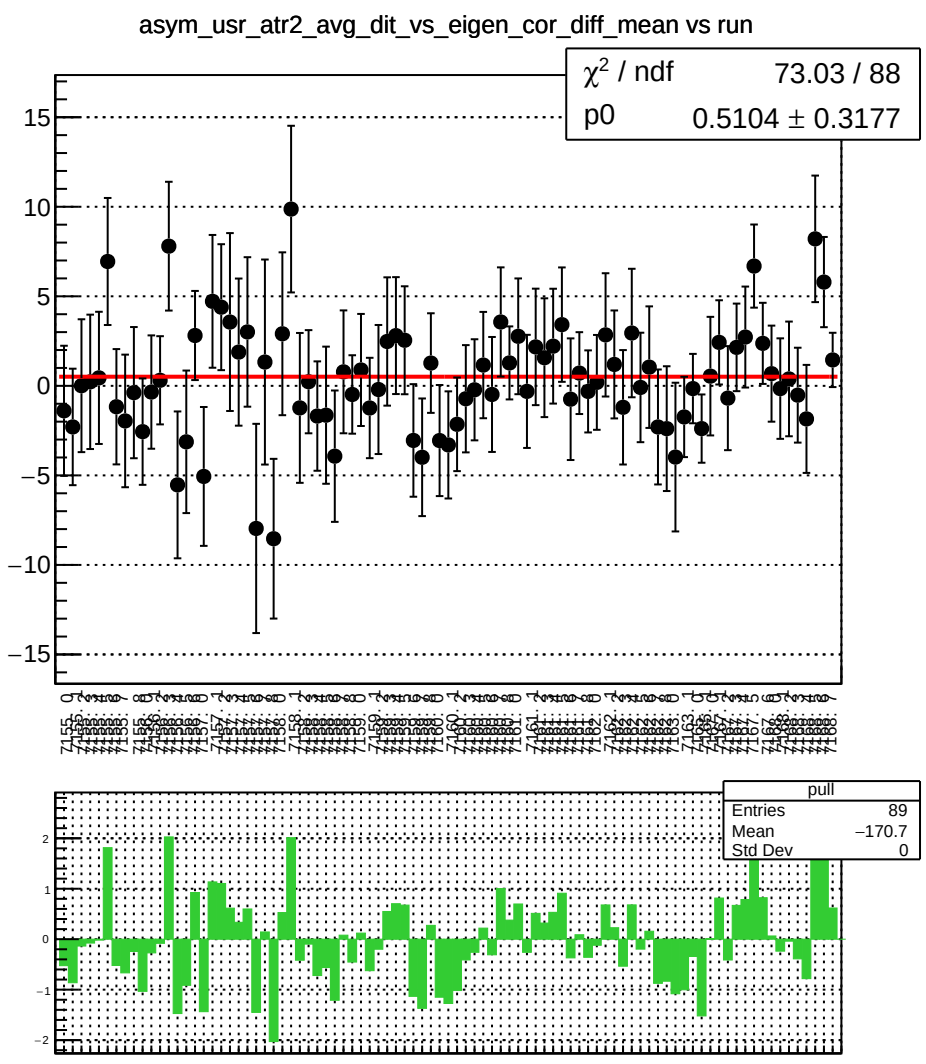

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.27 / 88
p0 −8.812e−14 ± 4.614e−13
pull
Entries 89
Mean 49.87
Std Dev 0
pull1D
Entries 89
Mean −0.03673
Std Dev 0.9549

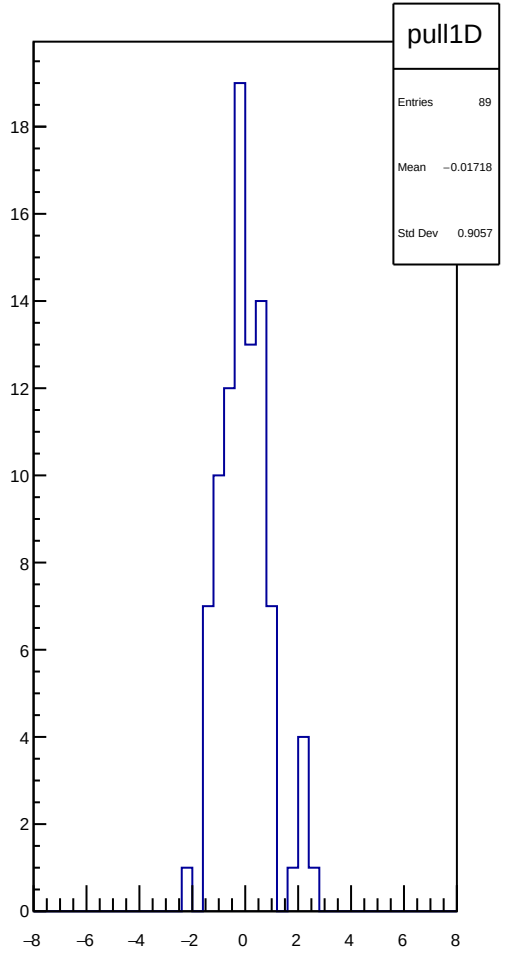

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.933e+05 / 88
p0 2.8e−10 ± 3.262e−13
1
0.8
0.6
0.4
0.2
0

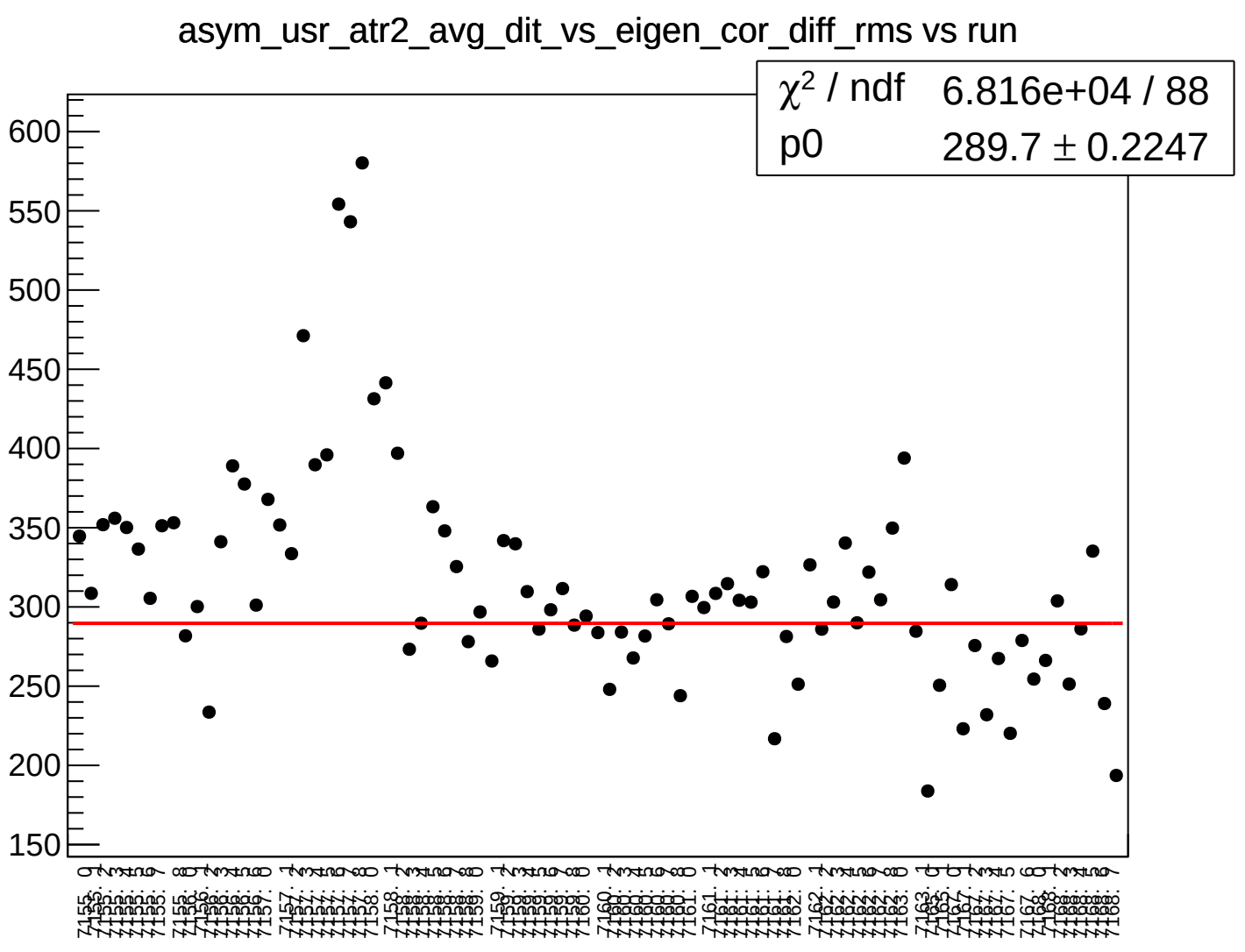

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.03 / 88
p0 0.5104 ± 0.3177
pull
Entries 89
Mean −170.7
Std Dev 0

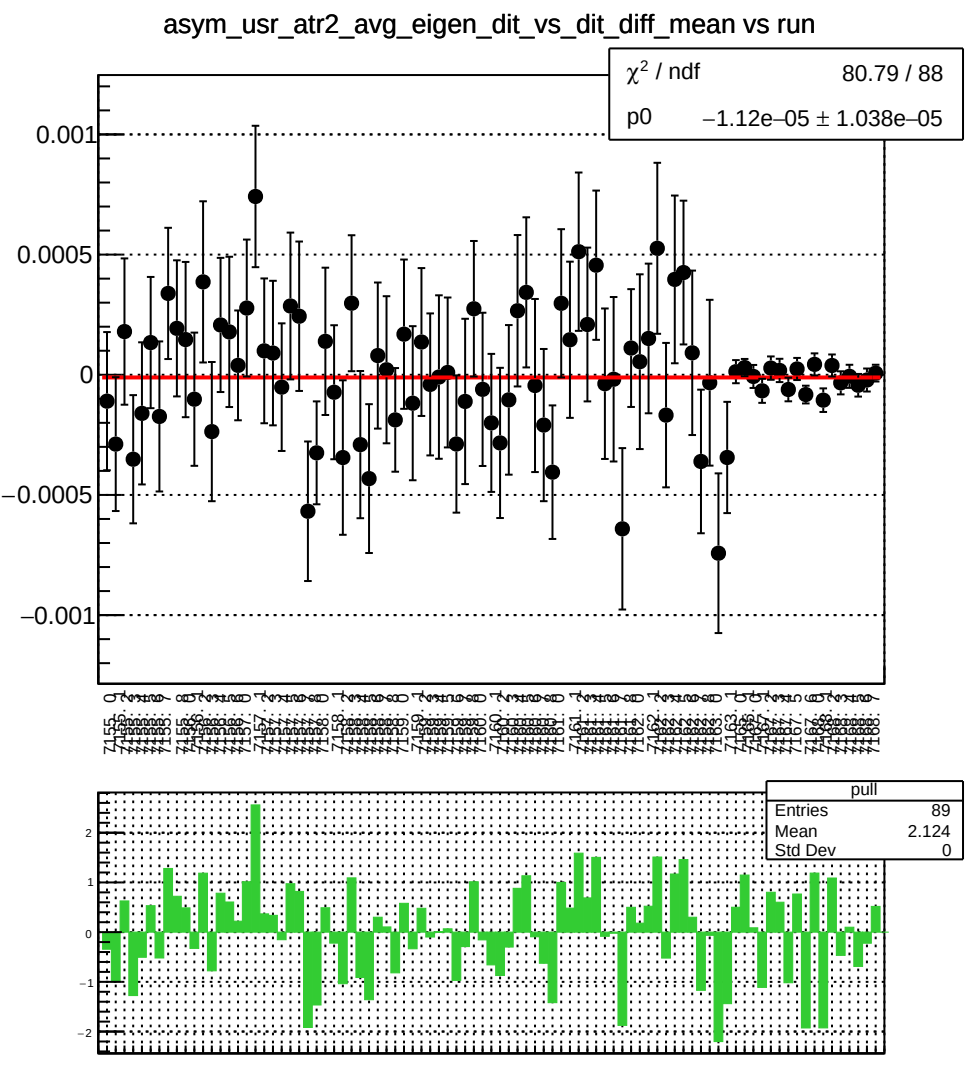

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9057

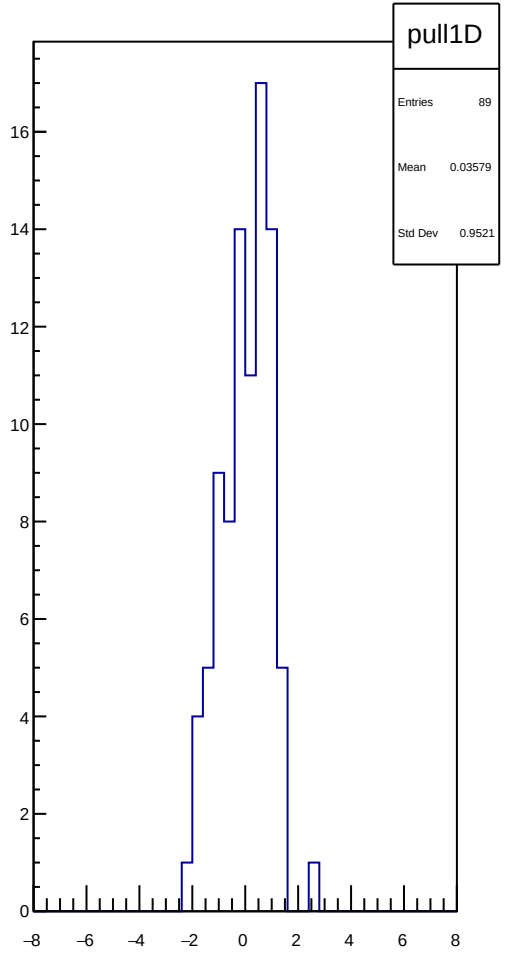

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.816e+04 / 88
p0 289.7 ± 0.2247
600
550
500
450
400
350
300
250
200
150

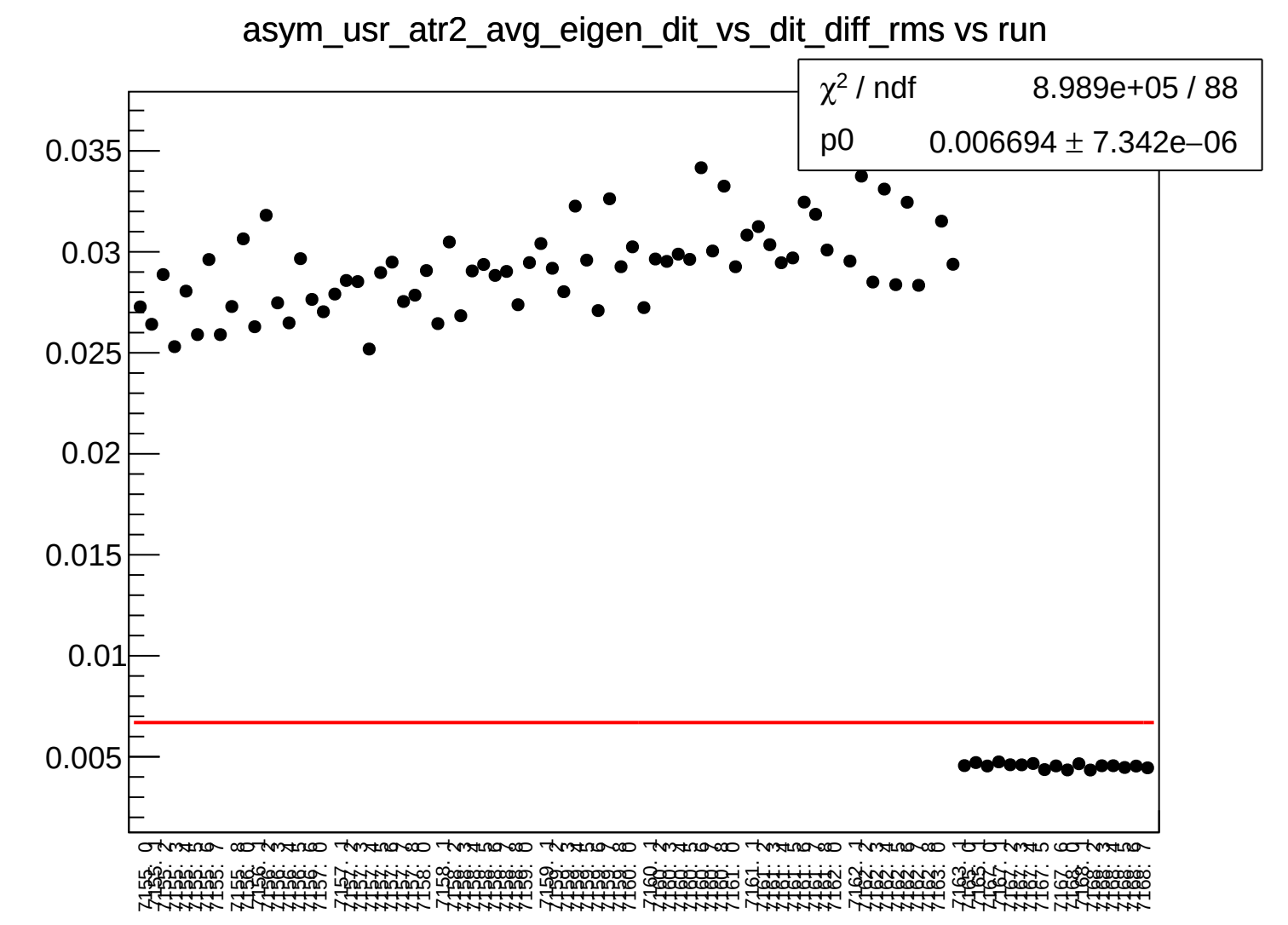

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.03 / 88
p0 0.5104 ± 0.3177
pull
Entries 89
Mean −170.7
Std Dev 0

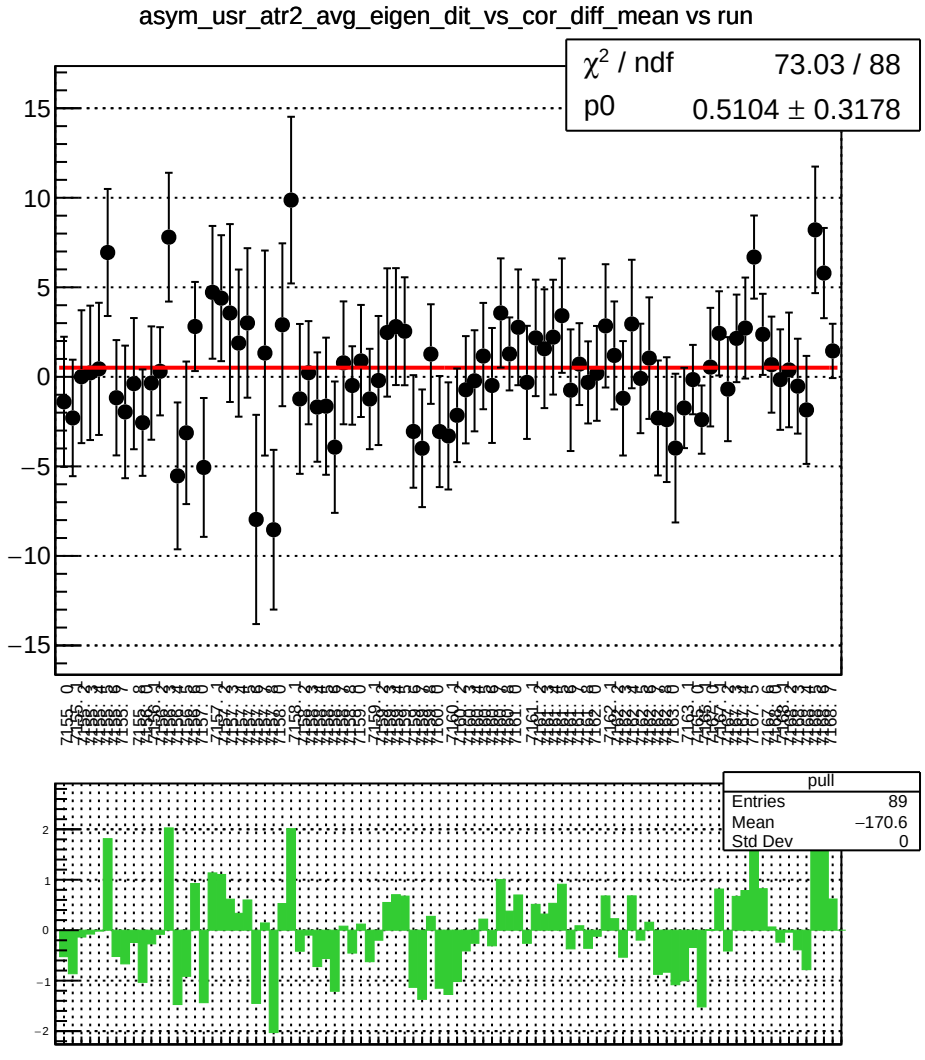

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9057

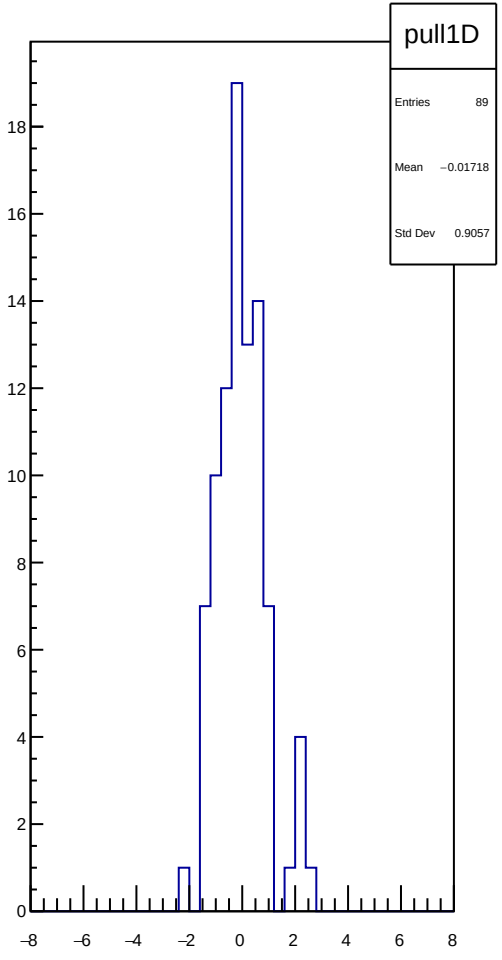

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.816e+04 / 88
p0 289.7 ± 0.2247
600
550
500
450
400
350
300
250
200
150

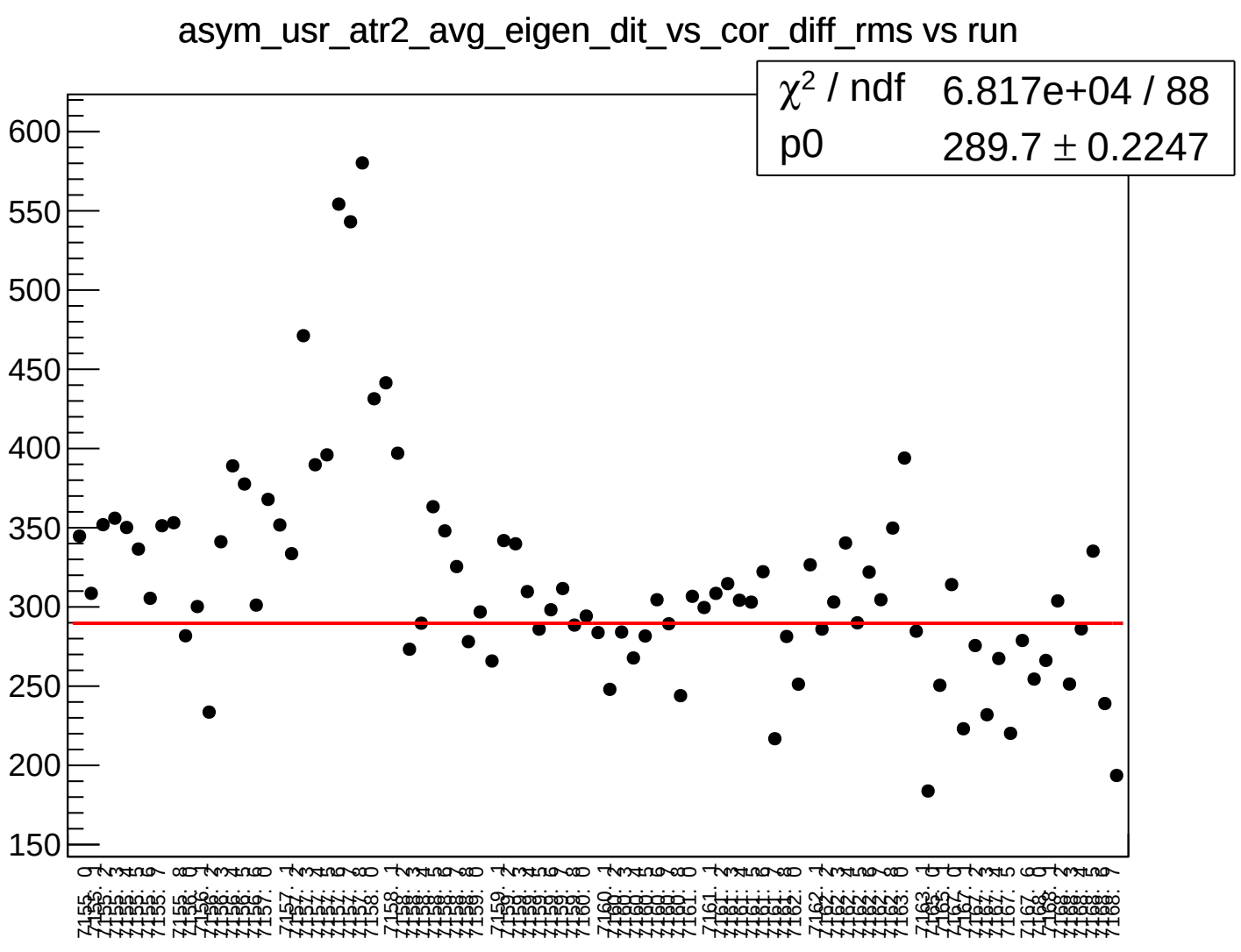

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.79 / 88
p0 −1.12e−05 ± 1.038e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 2.124
Std Dev 0
2
1
0
−1
−2

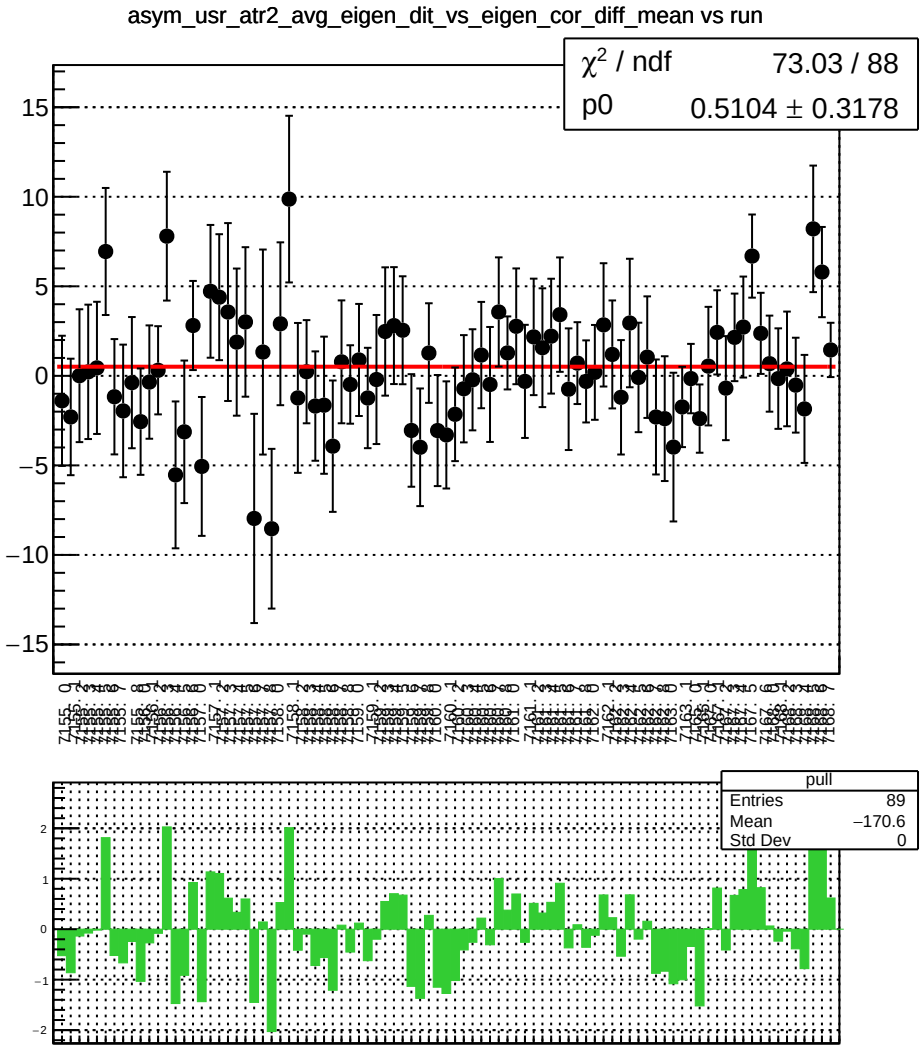

pull1D
Entries 89
Mean 0.03579
Std Dev 0.9521
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

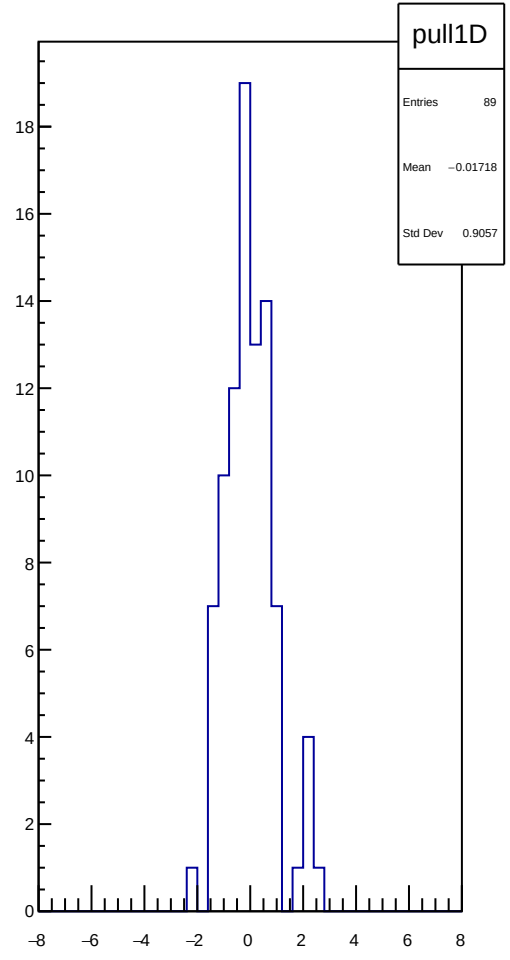

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.989e+05 / 88
p0 0.006694 ± 7.342e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

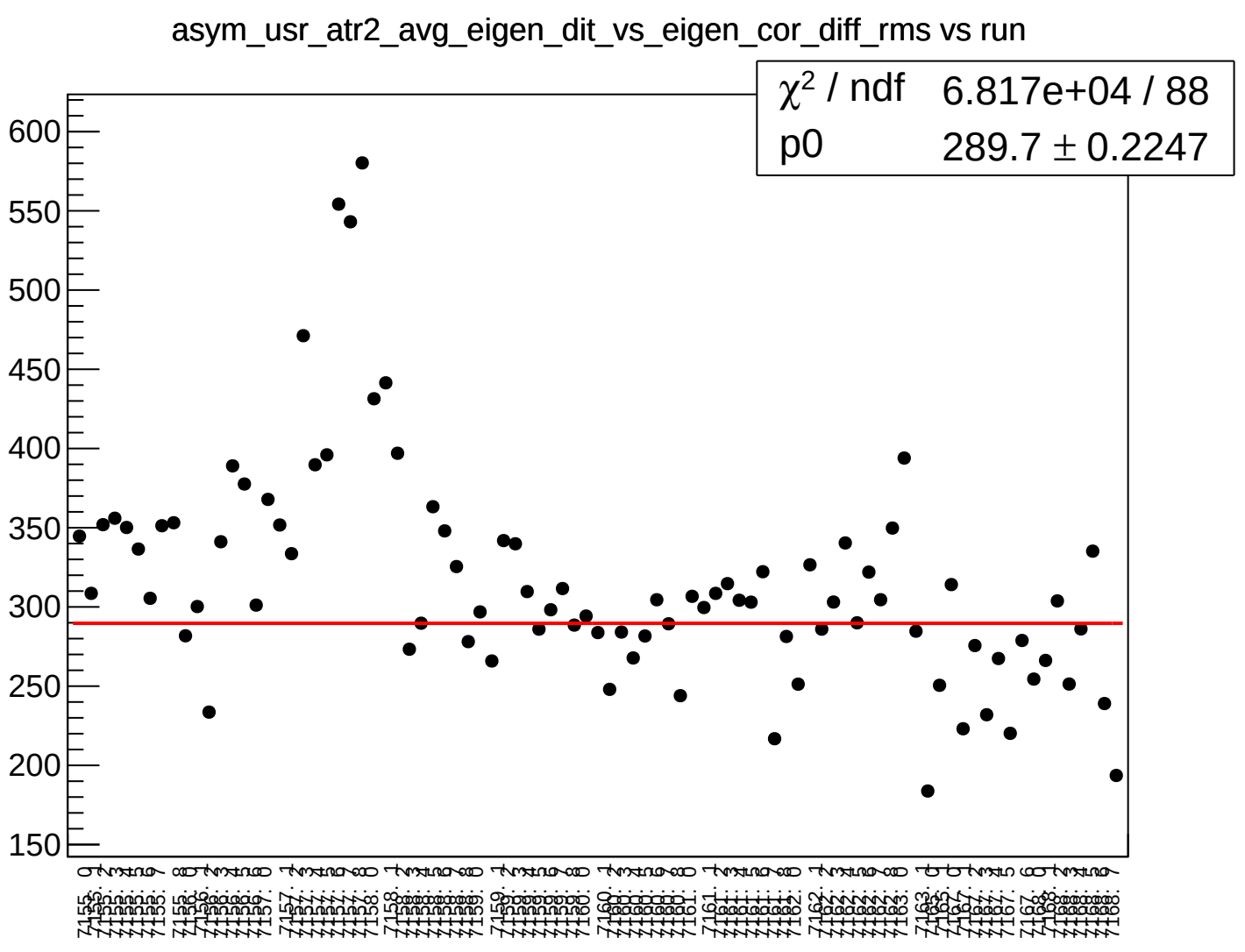

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.03 / 88
p0 0.5104 ± 0.3178
pull
Entries 89
Mean −170.6
Std Dev 0

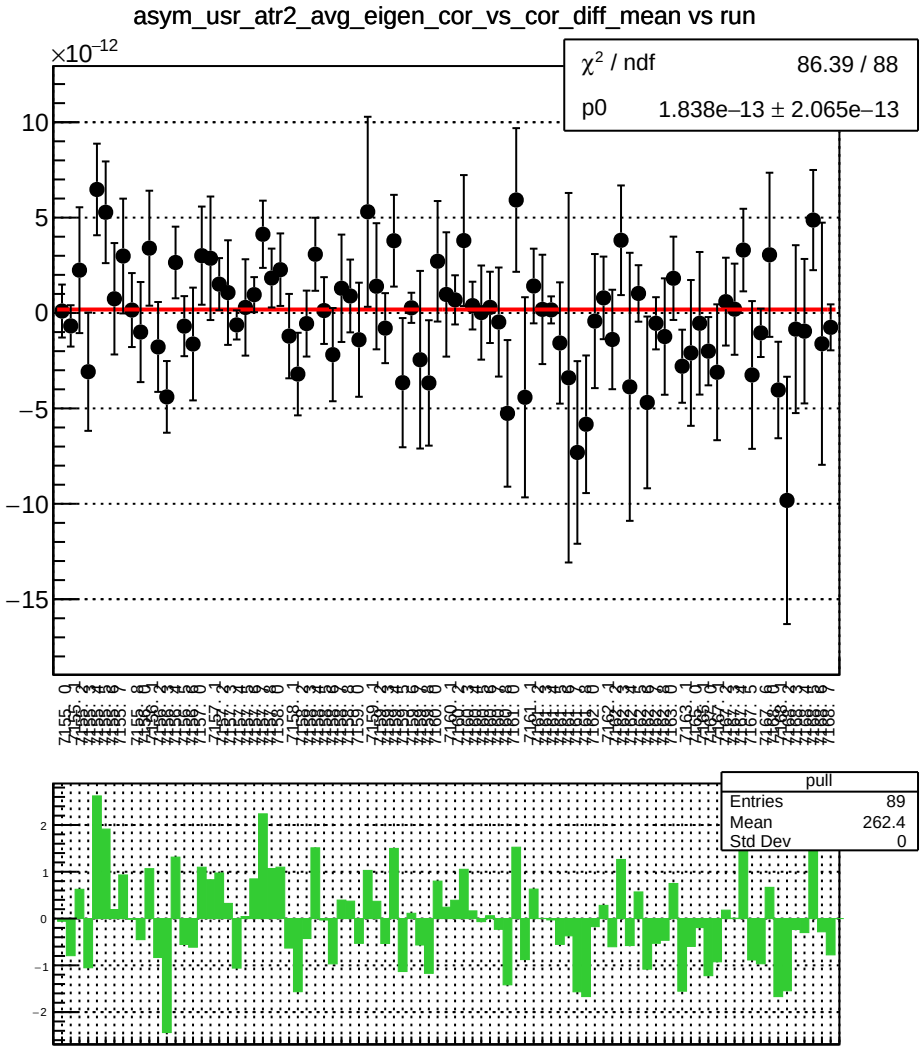

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9057

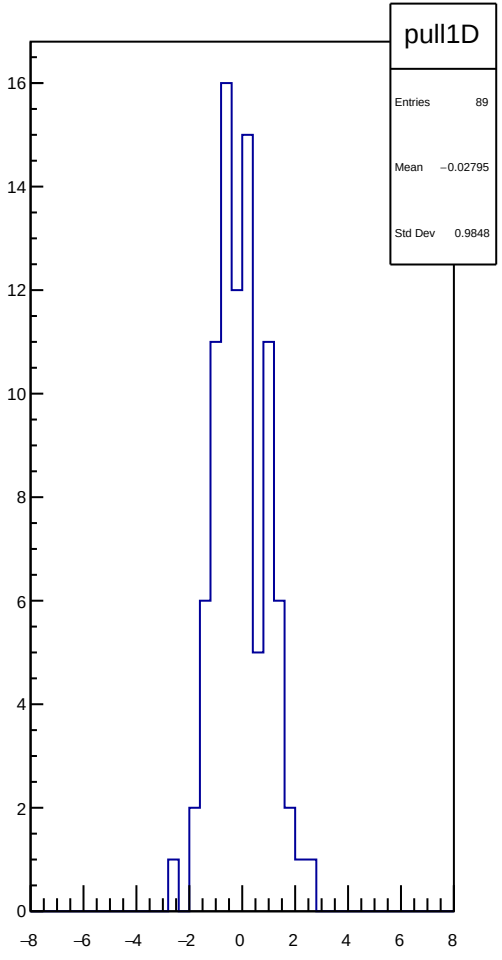

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.817e+04 / 88
p0 289.7 ± 0.2247
600
550
500
450
400
350
300
250
200
150

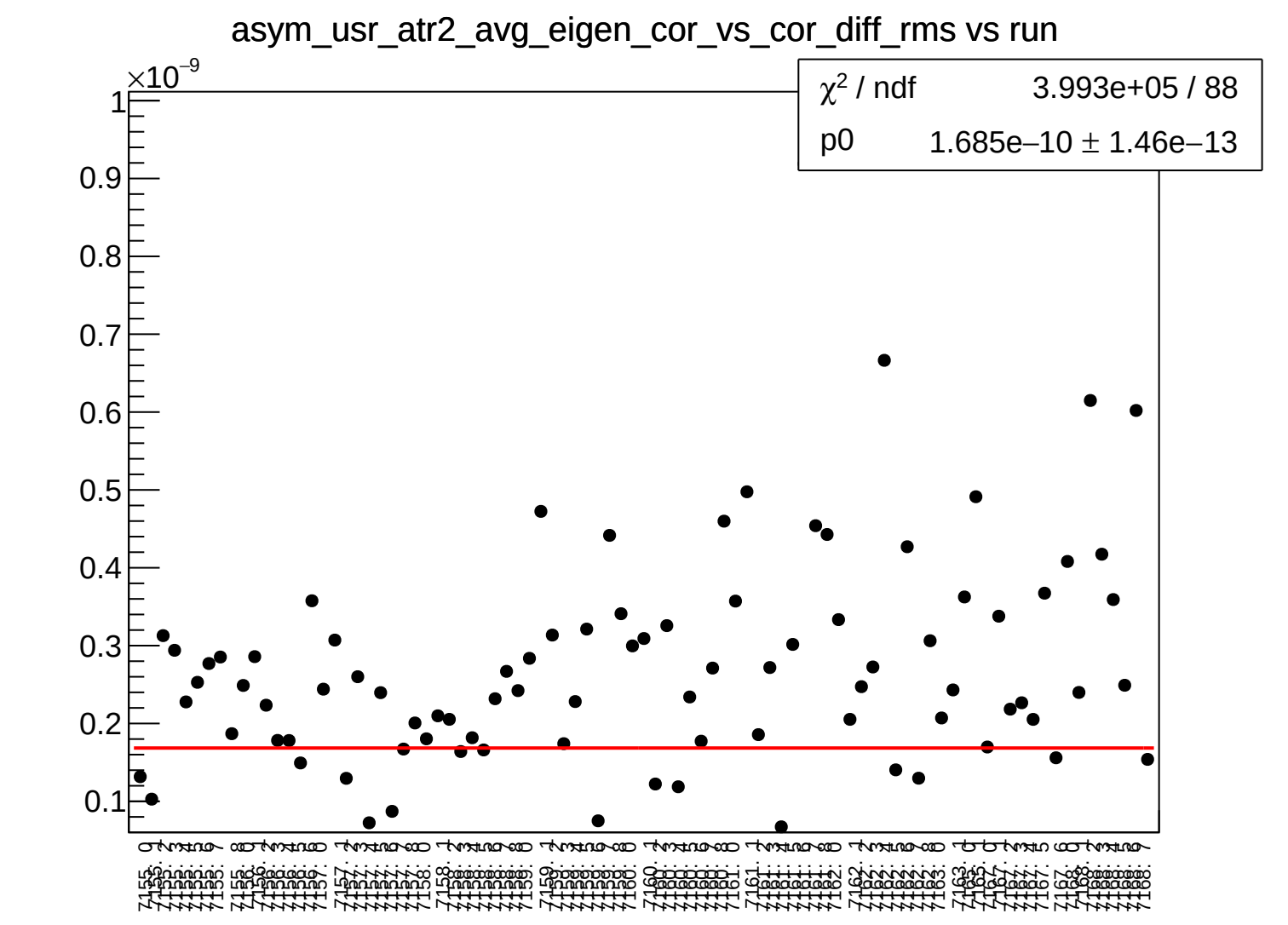

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.03 / 88
p0 0.5104 ± 0.3178
pull
Entries 89
Mean −170.6
Std Dev 0

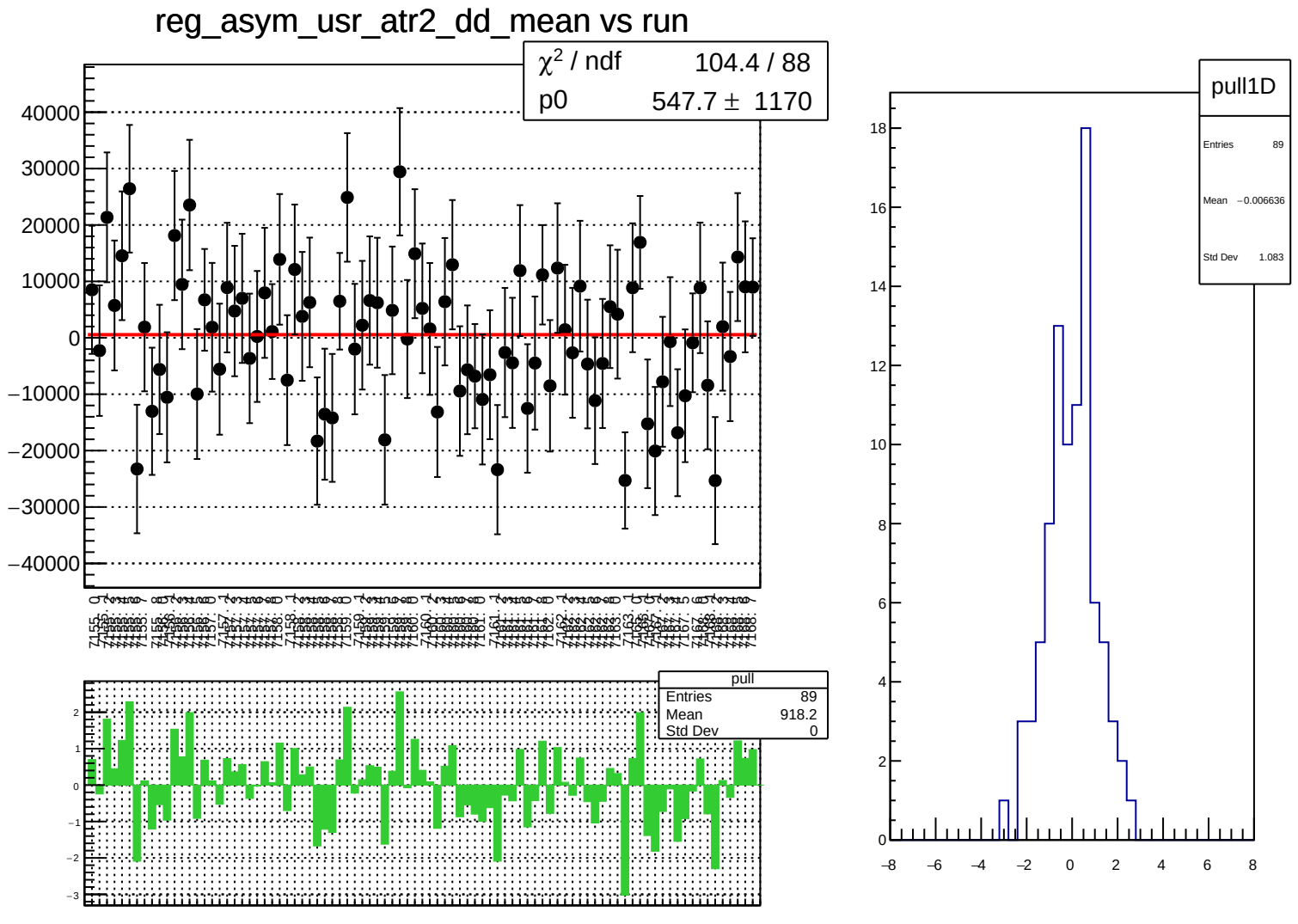

pull1D
Entries 89
Mean −0.01718
Std Dev 0.9057

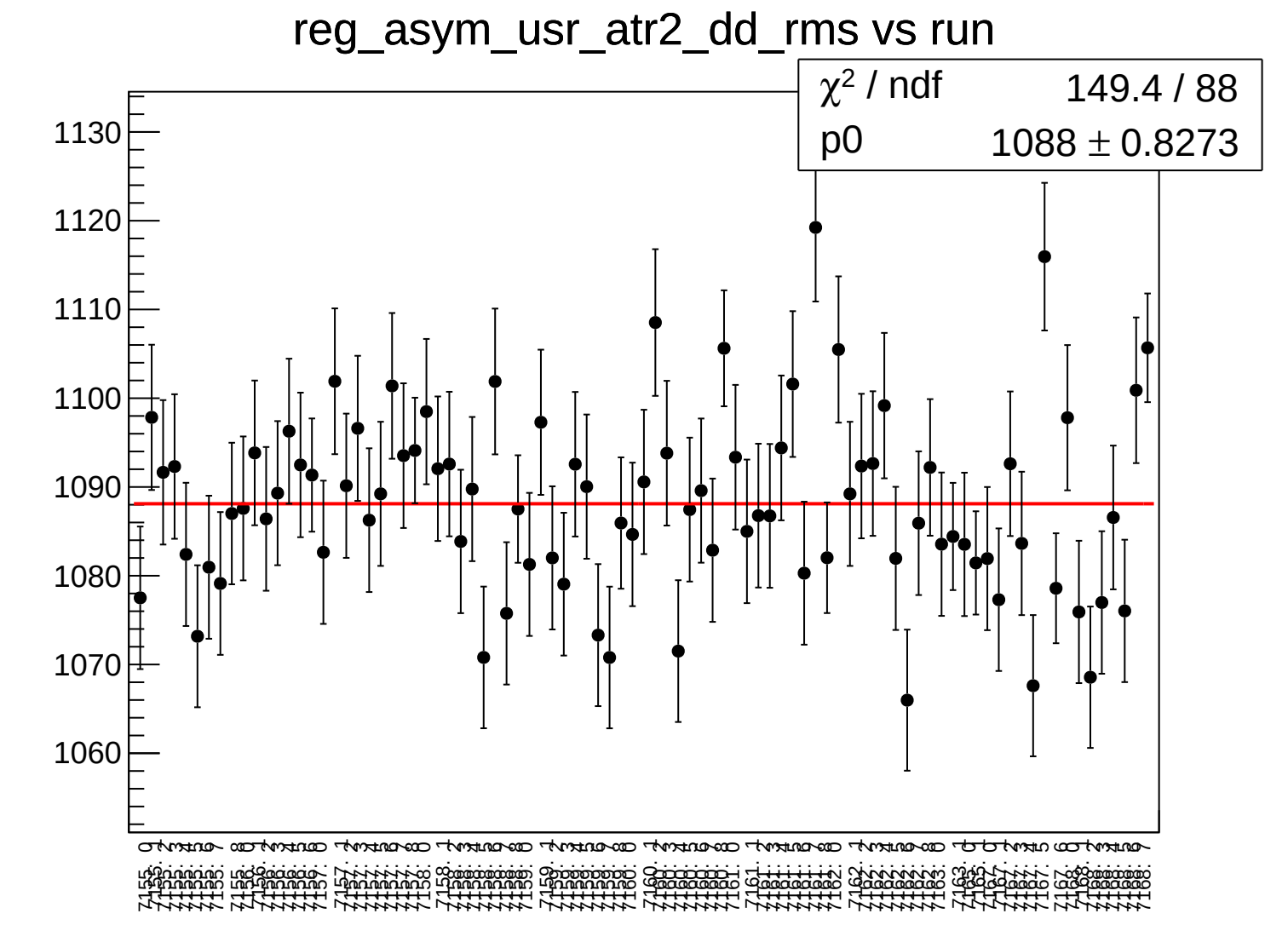

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.817e+04 / 88
p0 289.7 ± 0.2247
600
550
500
450
400
350
300
250
200
150

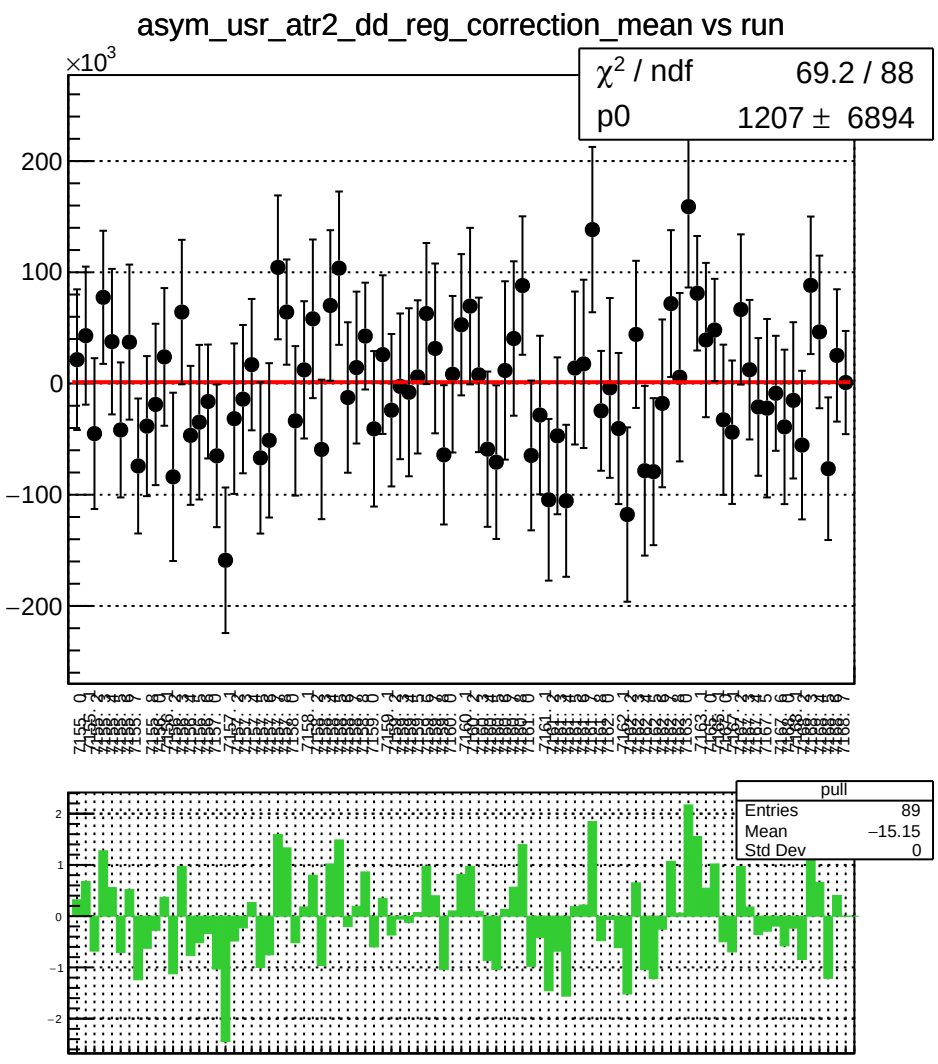

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.39 / 88
p0 1.838e−13 ± 2.065e−13
pull
Entries 89
Mean 262.4
Std Dev 0

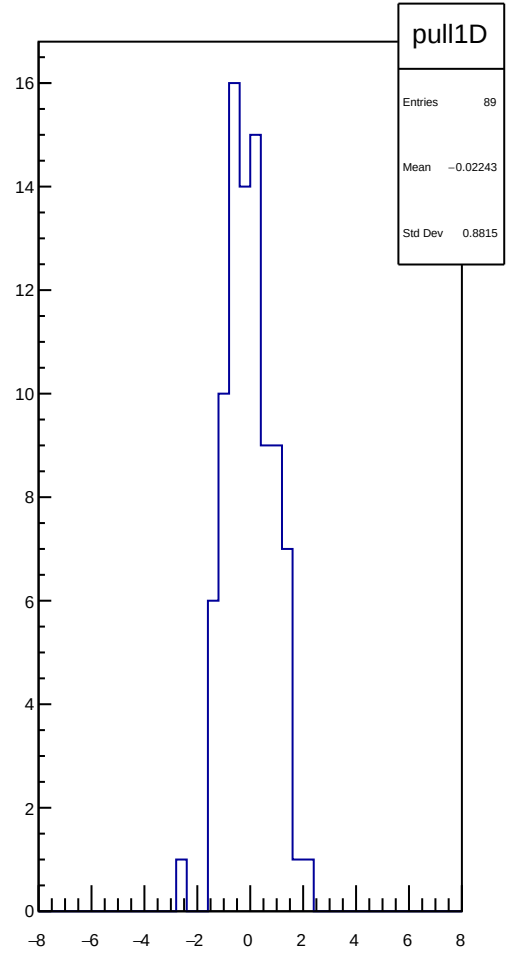

pull1D
Entries 89
Mean −0.02795
Std Dev 0.9848

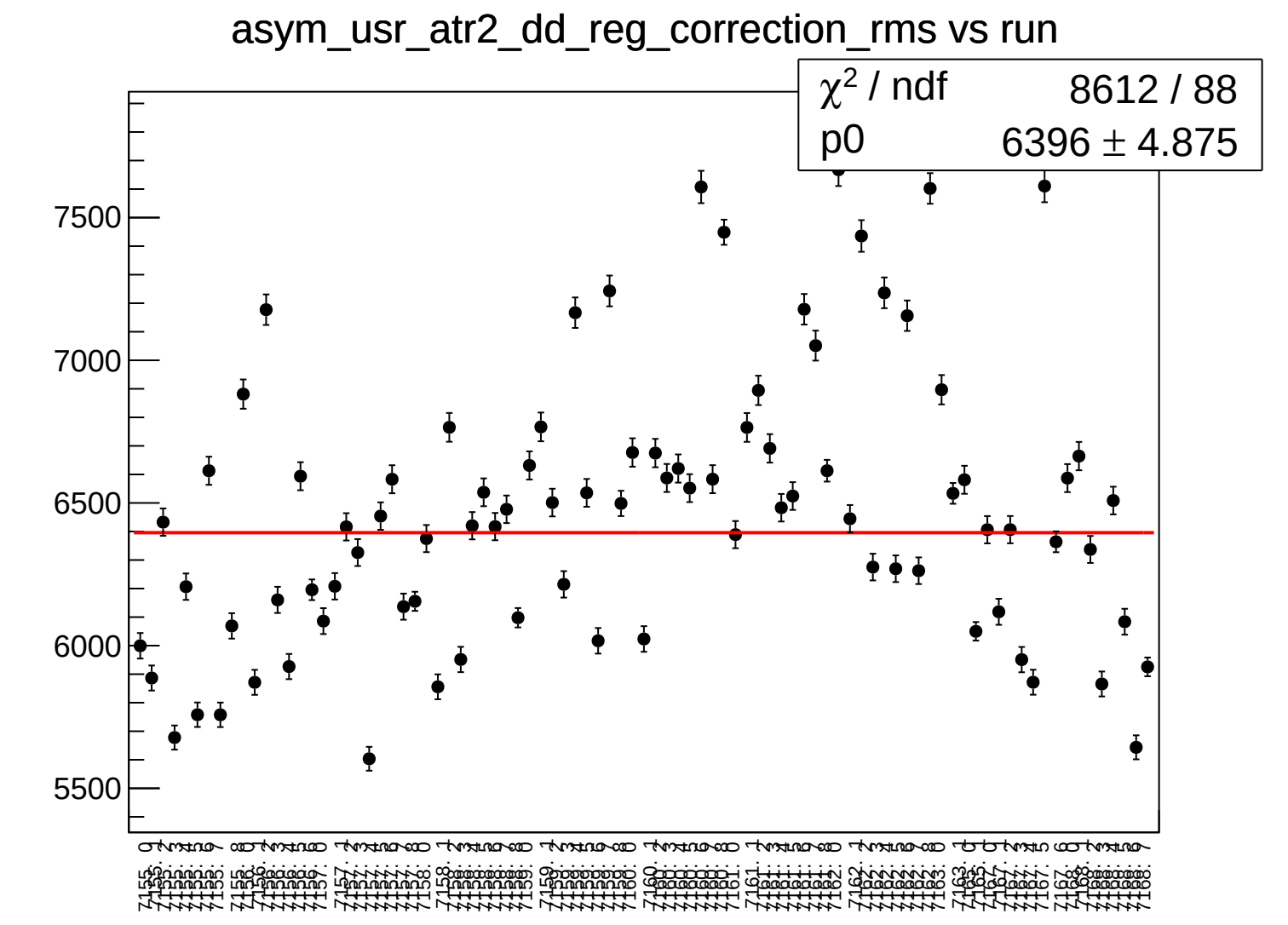

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.993e+05 / 88
p0 1.685e−10 ± 1.46e−13
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

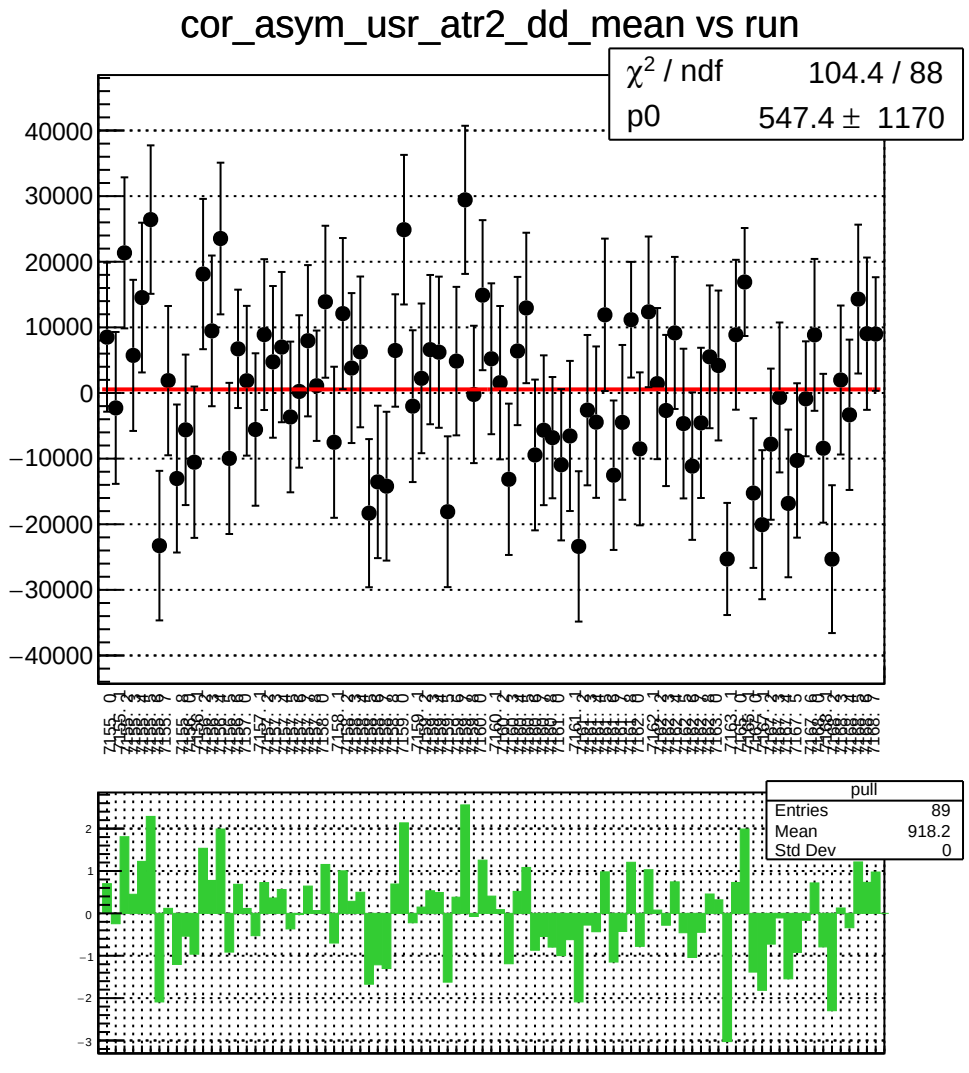

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 104.4 / 88
p0 547.7 ± 1170
pull
Entries 89
Mean 918.2
Std Dev 0
pull1D
Entries 89
Mean −0.006636
Std Dev 1.083

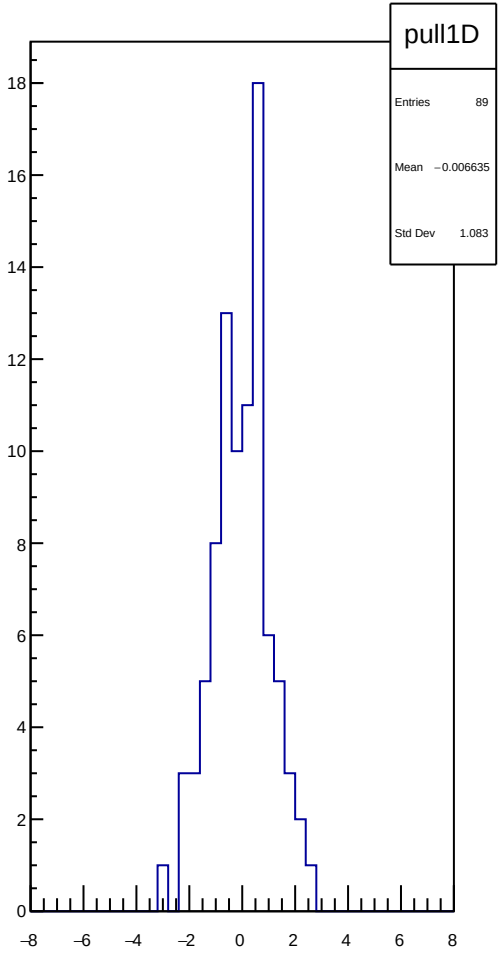

reg_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 149.4 / 88
p0 1088 ± 0.8273
1130
1120
1110
1100
1090
1080
1070
1060

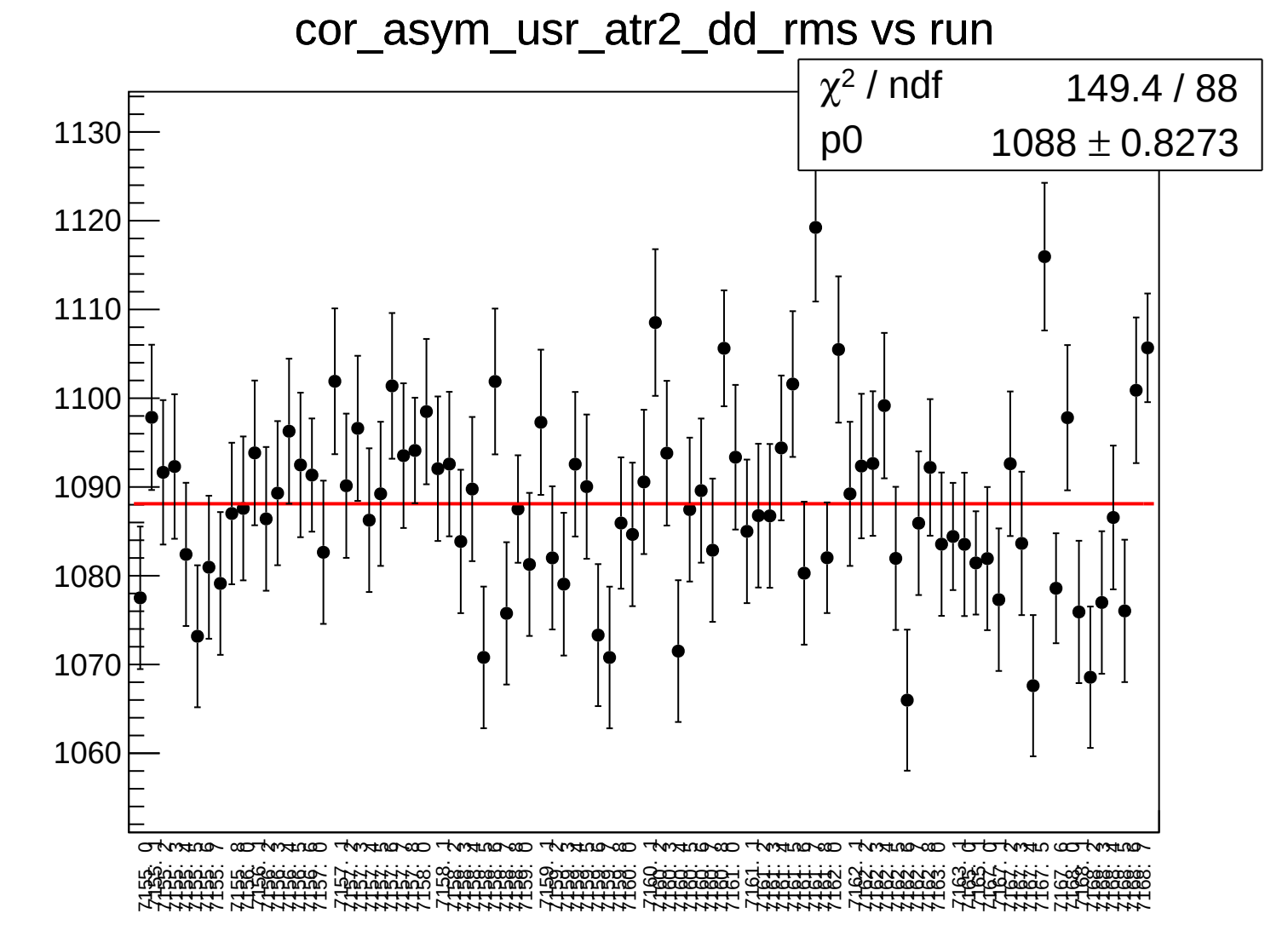

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.2 / 88
p0 1207 ± 6894
200
100
0
−100
−200
pull
Entries 89
Mean −15.15
Std Dev 0
2
1
0
−1
−2

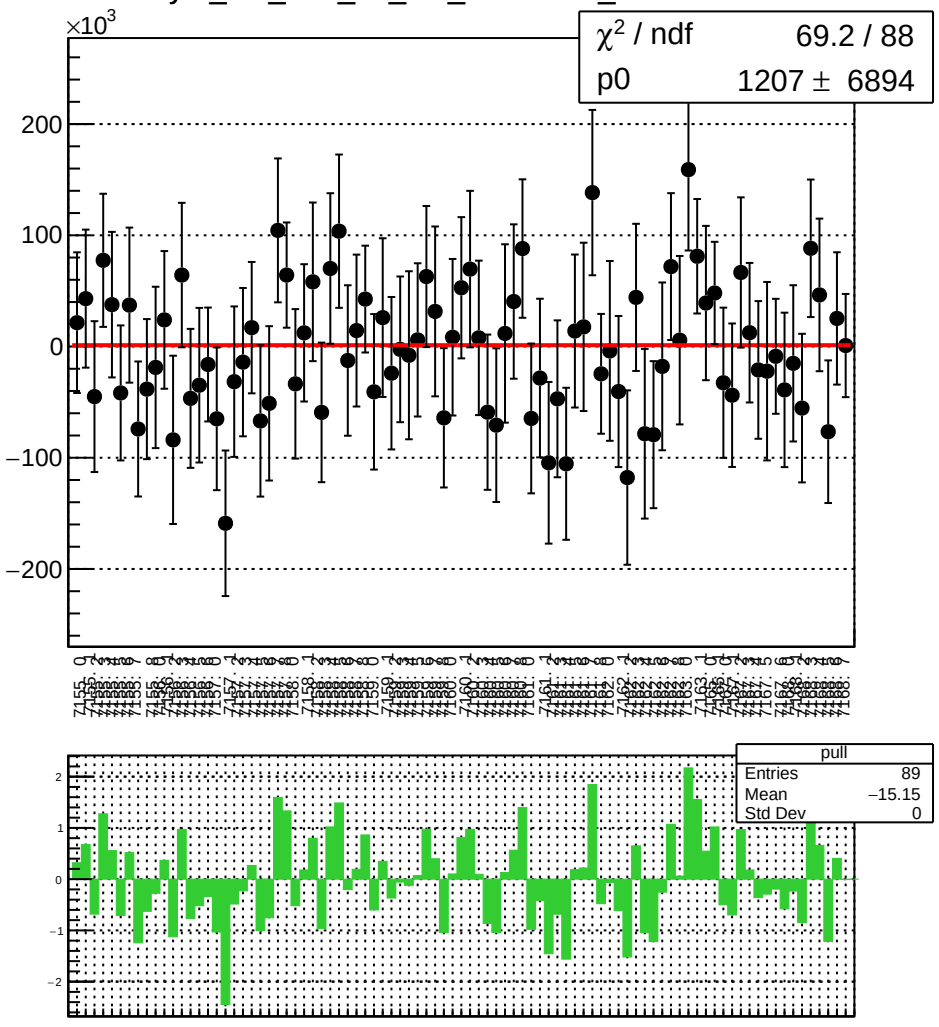

pull1D
Entries 89
Mean −0.02243
Std Dev 0.8815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

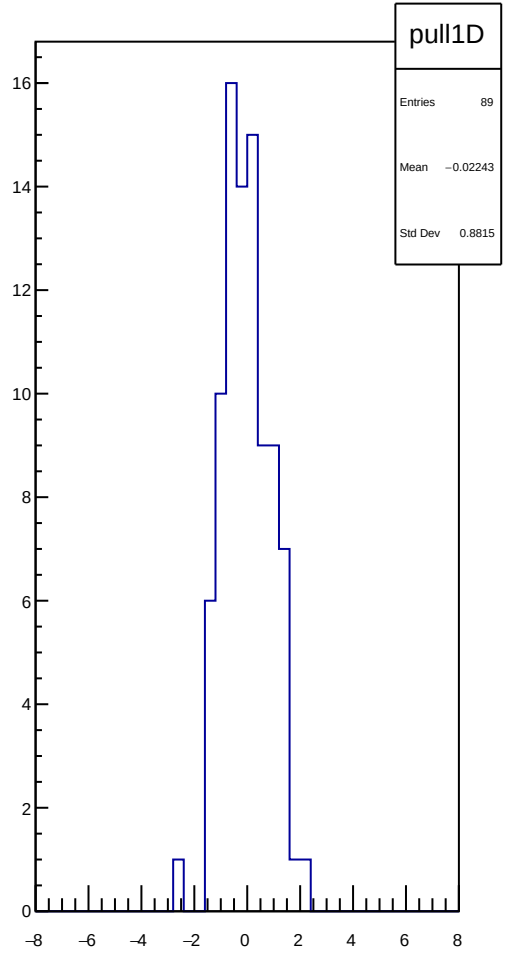

asym_usr_atr2_dd_reg_correction_rms vs run
χ^2 / ndf 8612 / 88
p0 6396 ± 4.875
7500
7000
6500
6000
5500

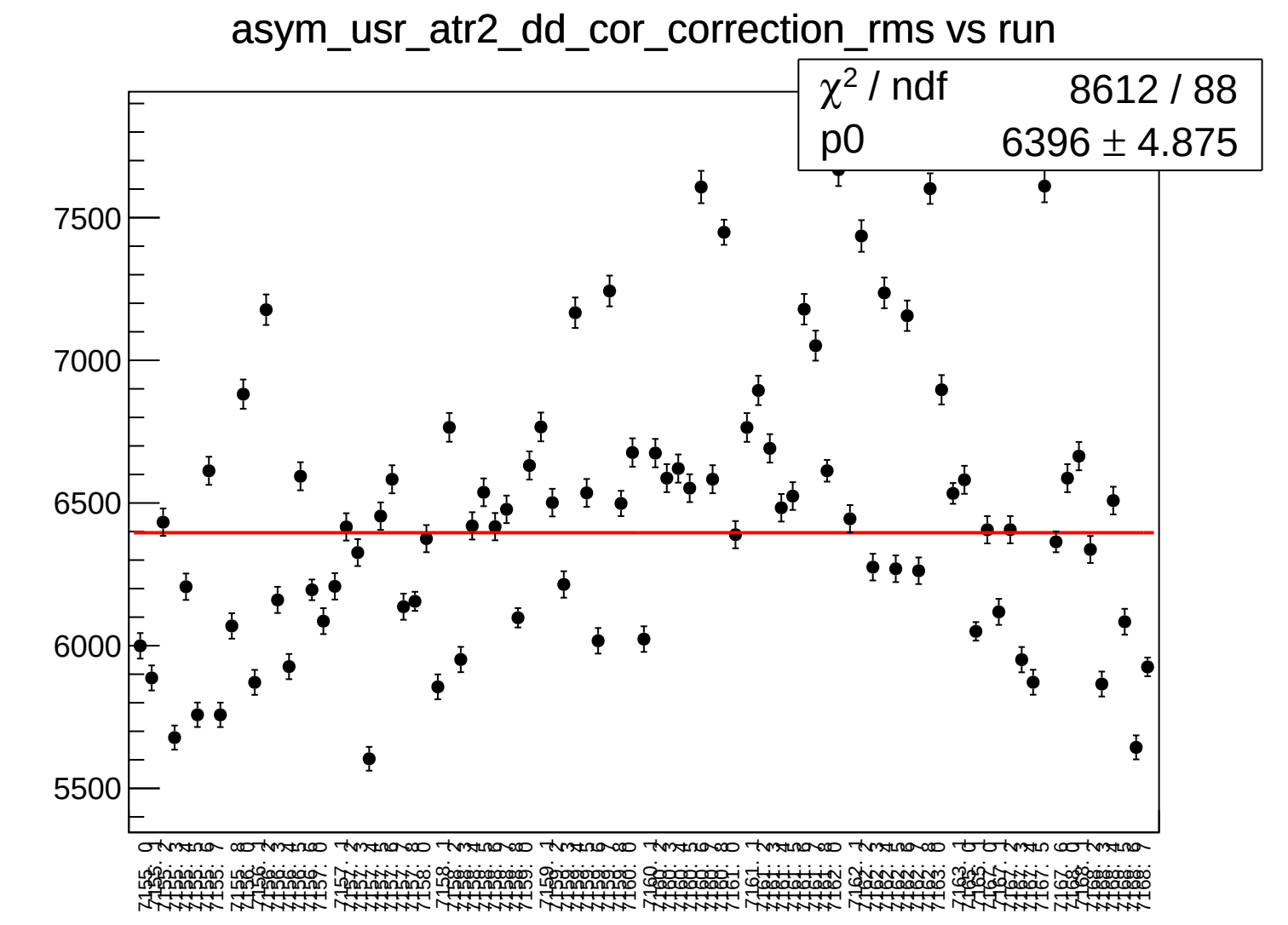

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 104.4 / 88
p0 547.4 ± 1170
pull
Entries 89
Mean 918.2
Std Dev 0

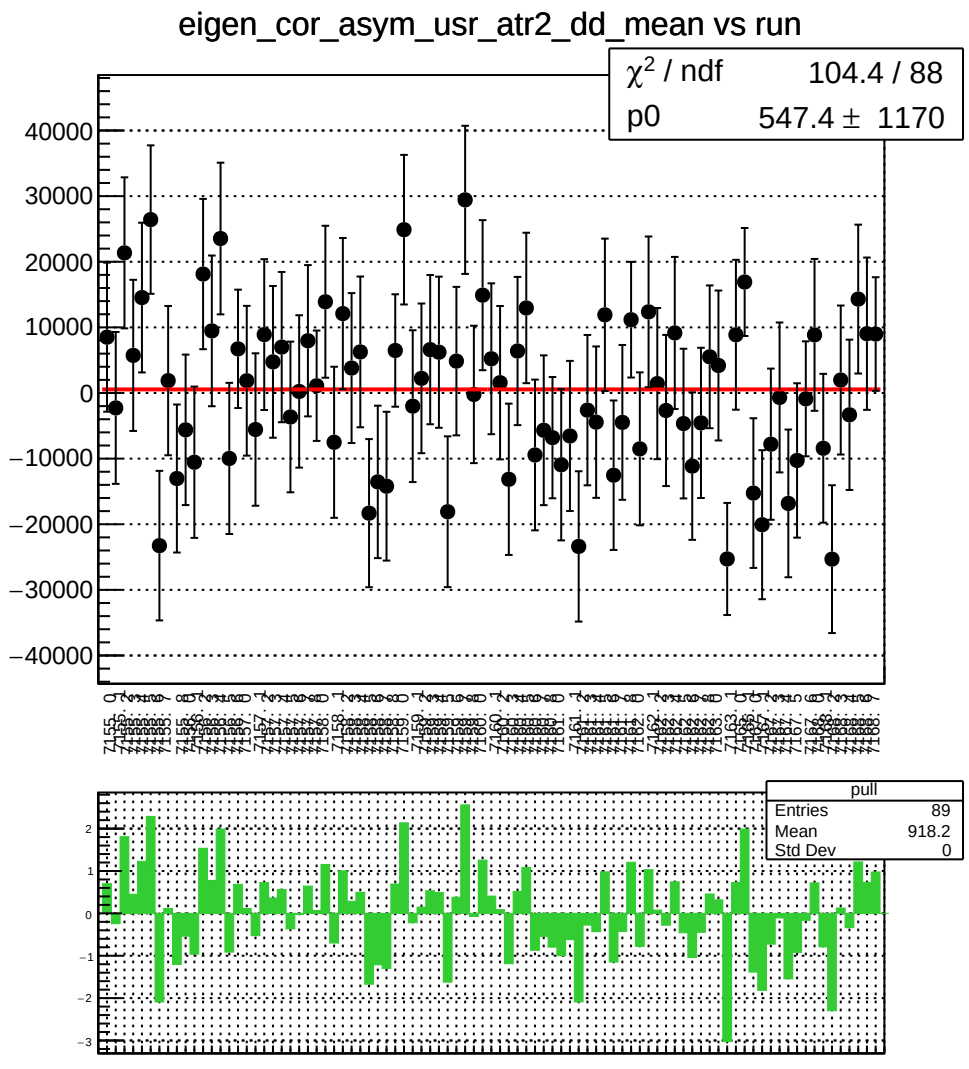

pull1D
Entries 89
Mean −0.006635
Std Dev 1.083

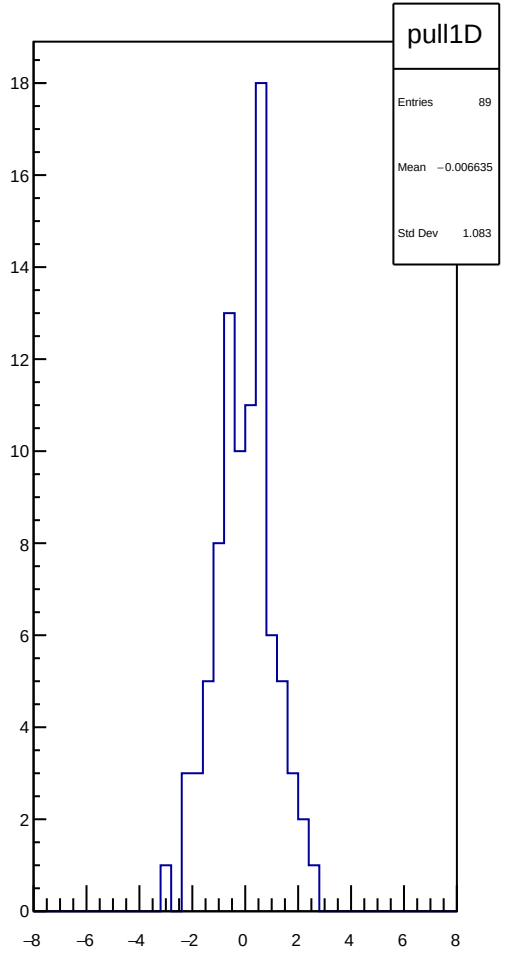

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 149.4 / 88
p0 1088 ± 0.8273
1130
1120
1110
1100
1090
1080
1070
1060

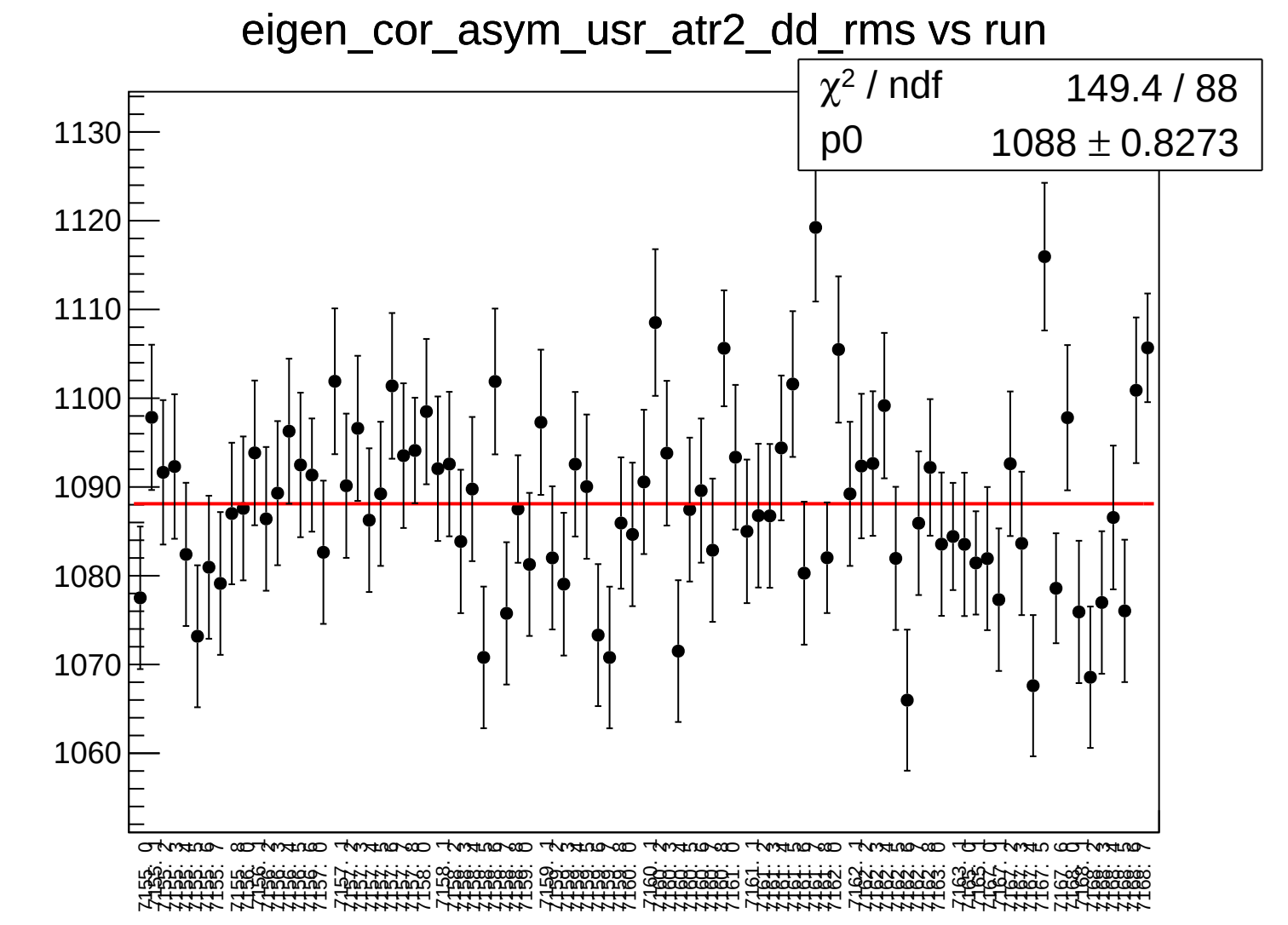

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.2 / 88
p0 1207 ± 6894
200
100
0
−100
−200
pull
Entries 89
Mean −15.15
Std Dev 0
2
1
0
−1
−2

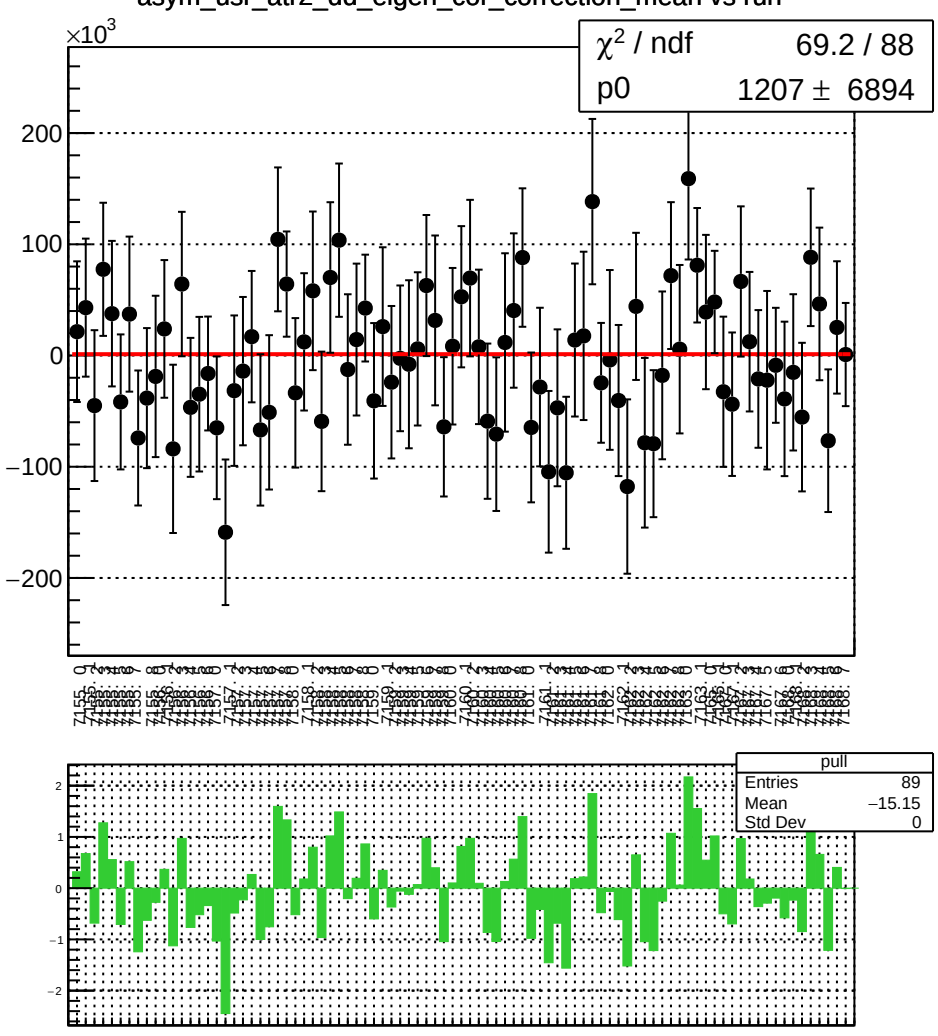

pull1D
Entries 89
Mean −0.02243
Std Dev 0.8815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

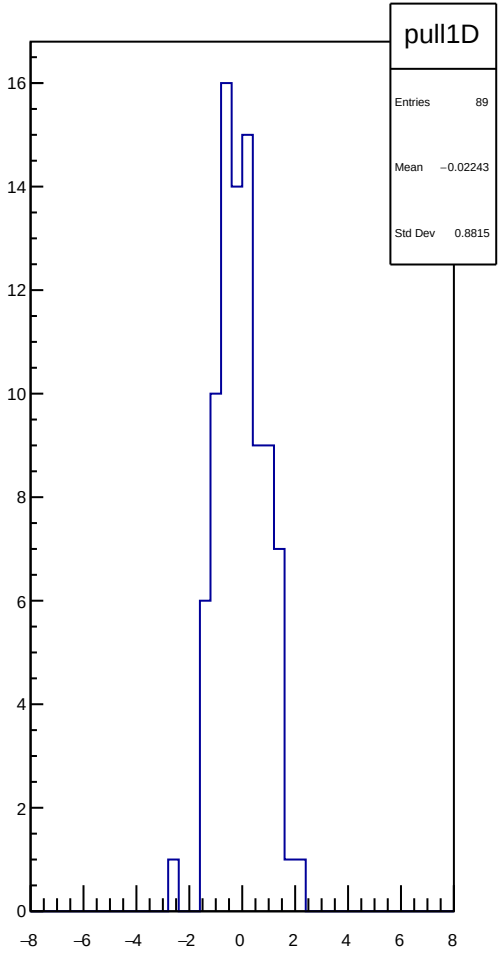

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 8612 / 88
p0 6396 ± 4.875
7500
7000
6500
6000
5500

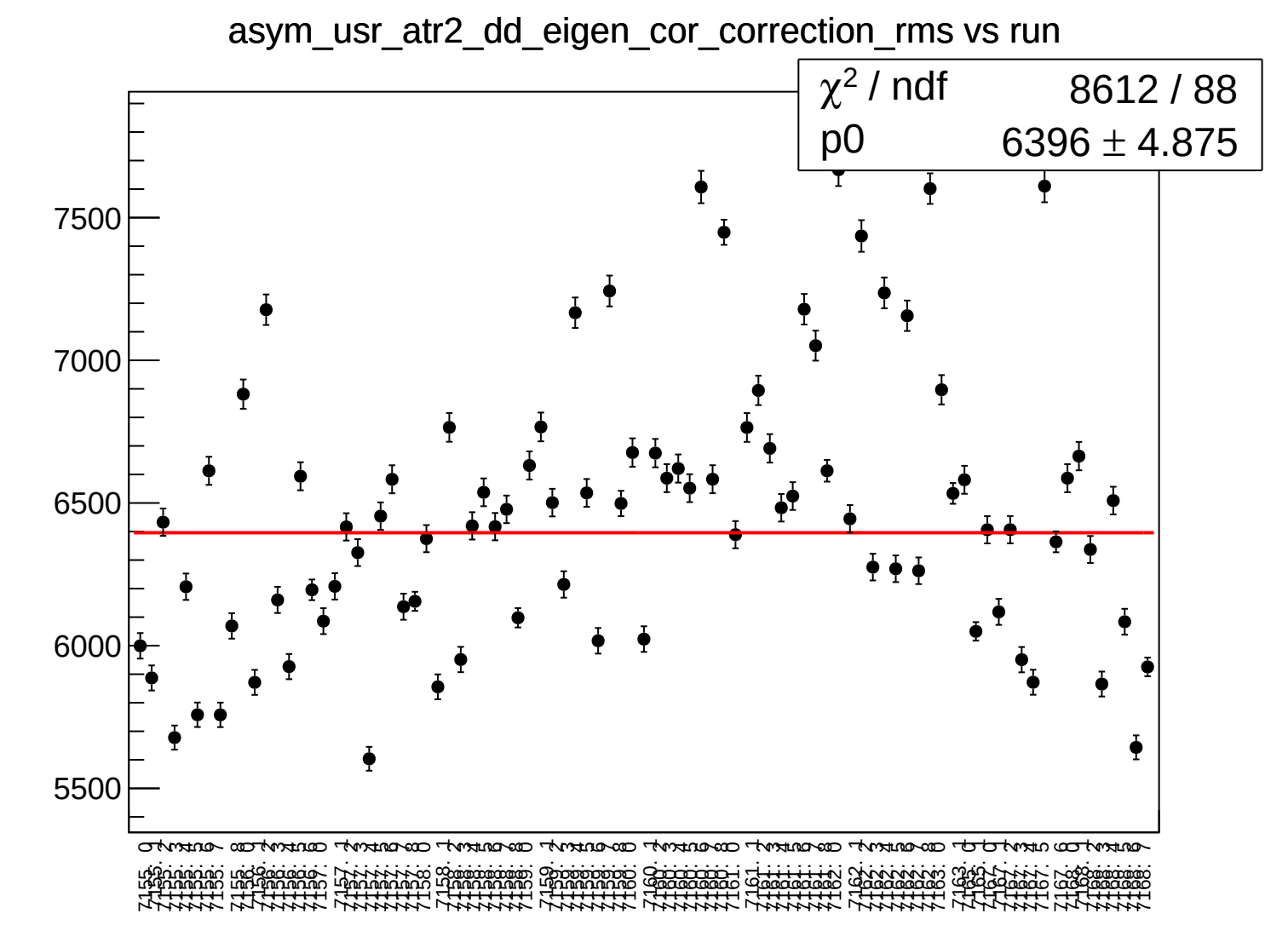

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 104.4 / 88
p0 547.4 ± 1170
pull
Entries 89
Mean 918.2
Std Dev 0

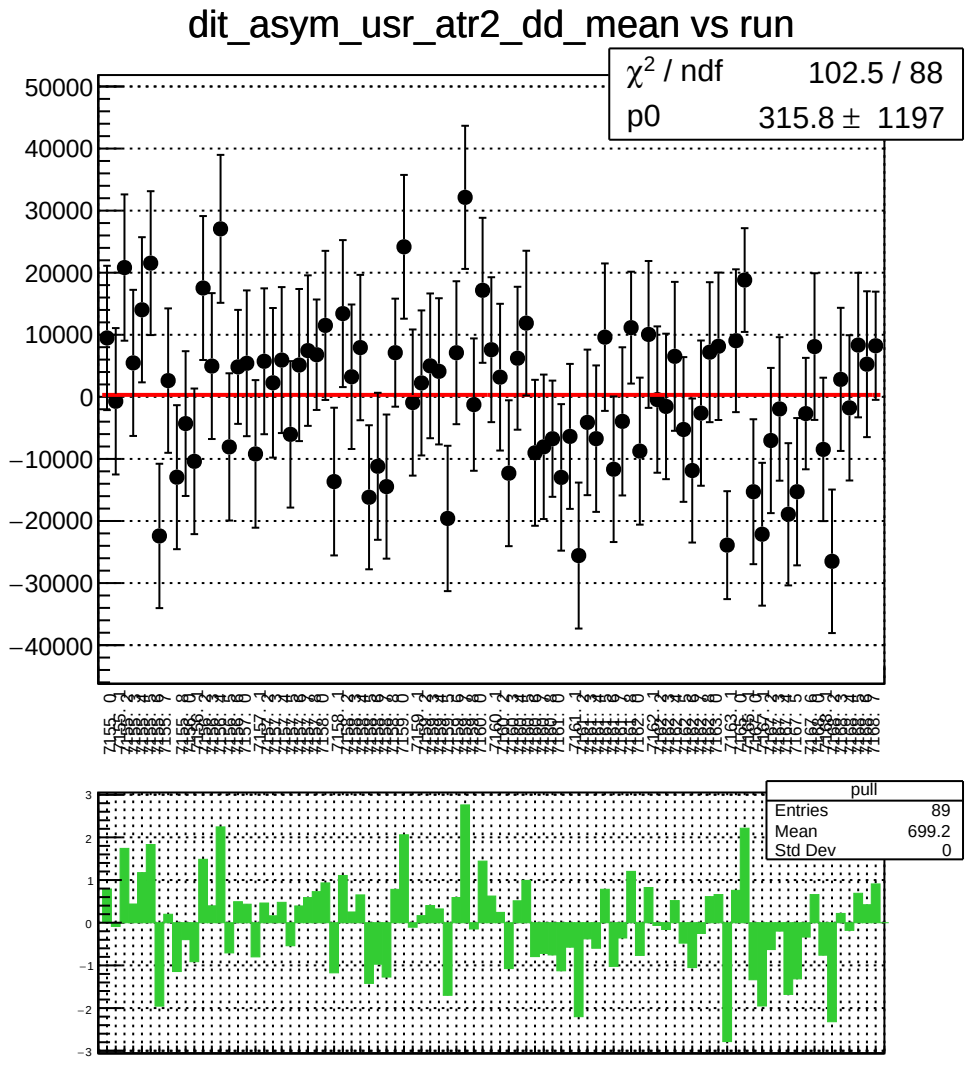

pull1D
Entries 89
Mean −0.006635
Std Dev 1.083

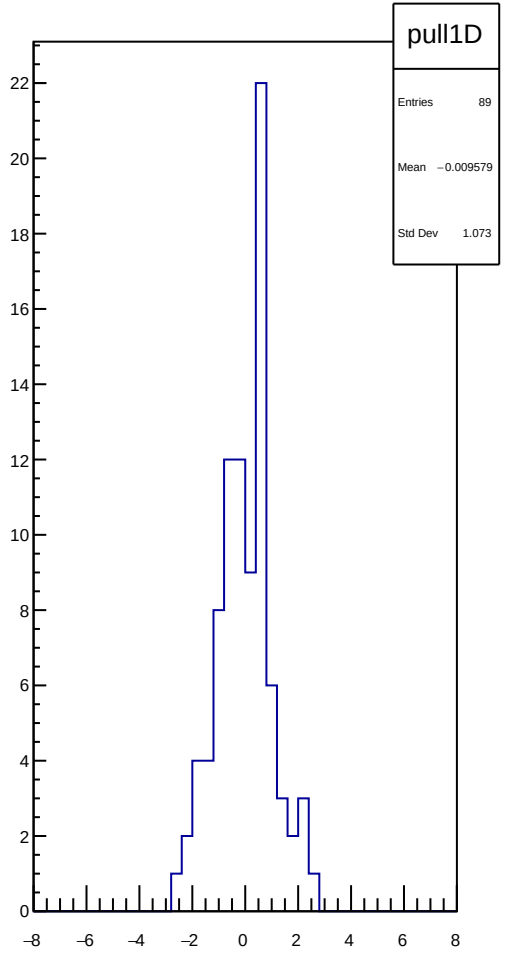

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 149.4 / 88
p0 1088 ± 0.8273
1130
1120
1110
1100
1090
1080
1070
1060

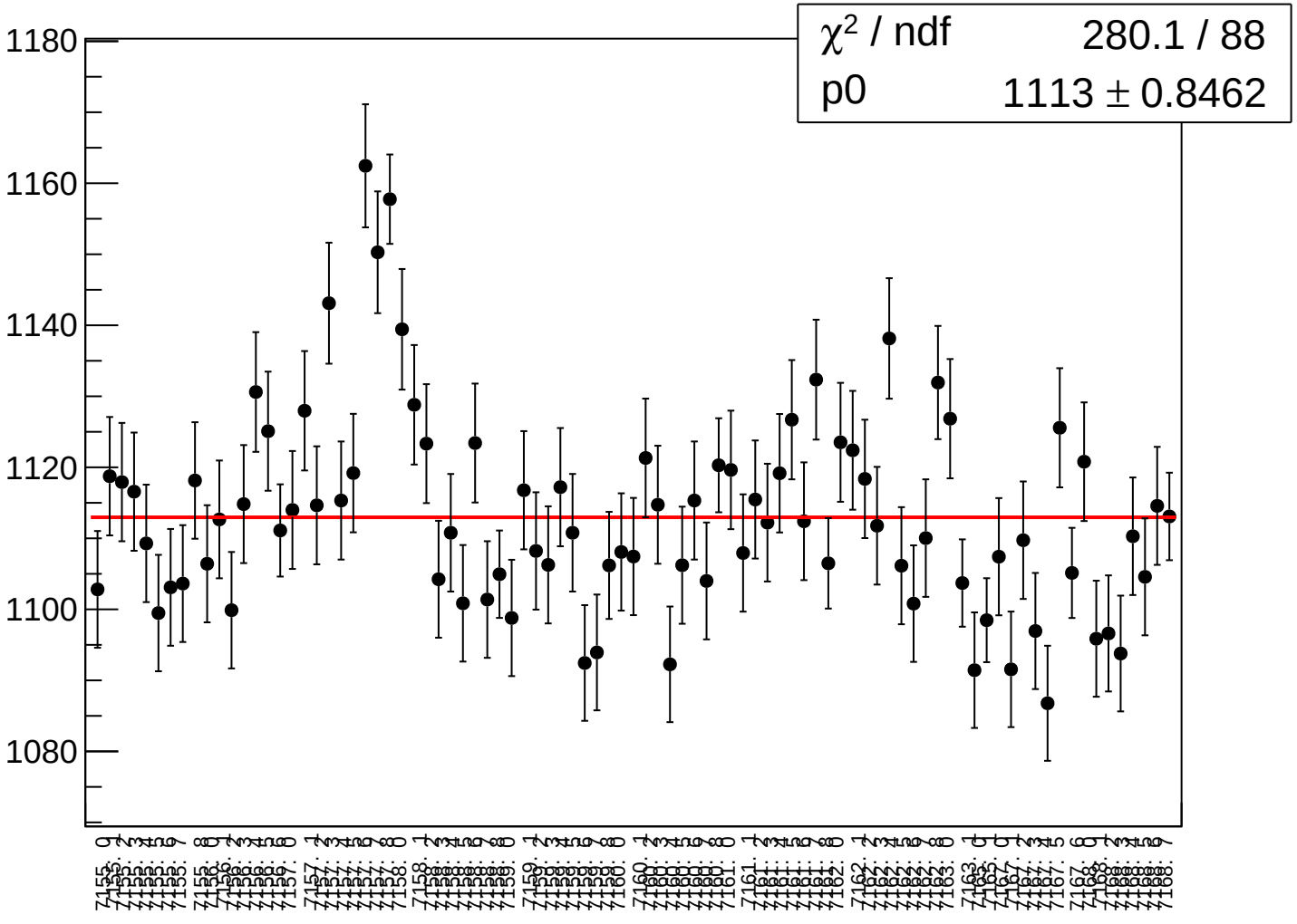

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.2 / 88
p0 1207 ± 6894
200
100
0
−100
−200
pull
Entries 89
Mean −15.15
Std Dev 0
2
1
0
−1
−2

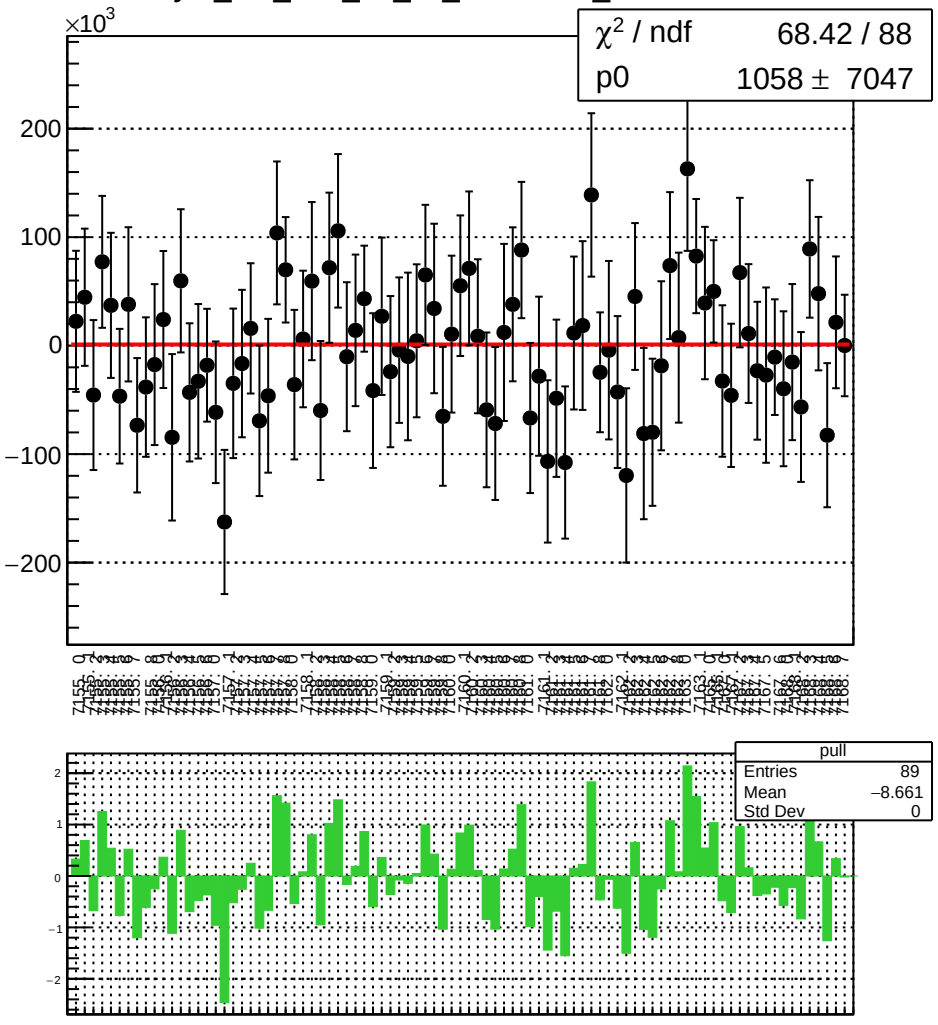

pull1D
Entries 89
Mean −0.02243
Std Dev 0.8815
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

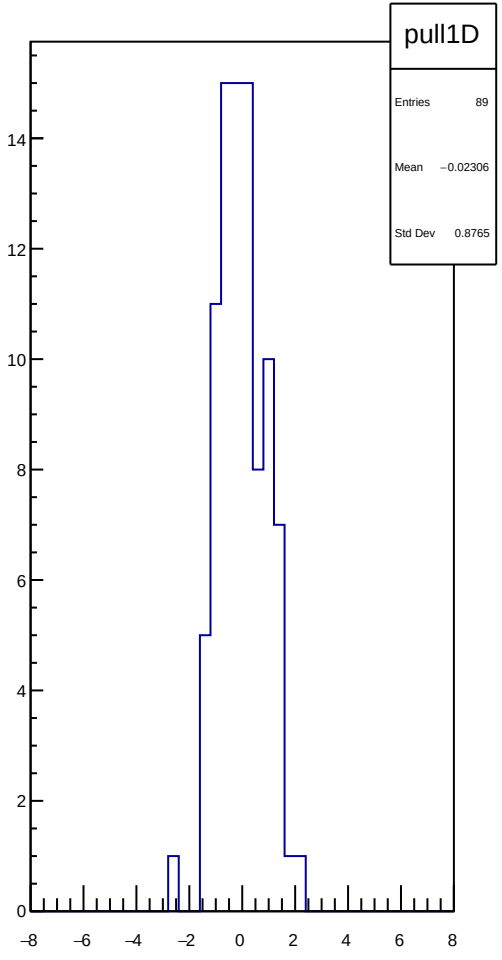

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 8612 / 88
p0 6396 ± 4.875
7500
7000
6500
6000
5500

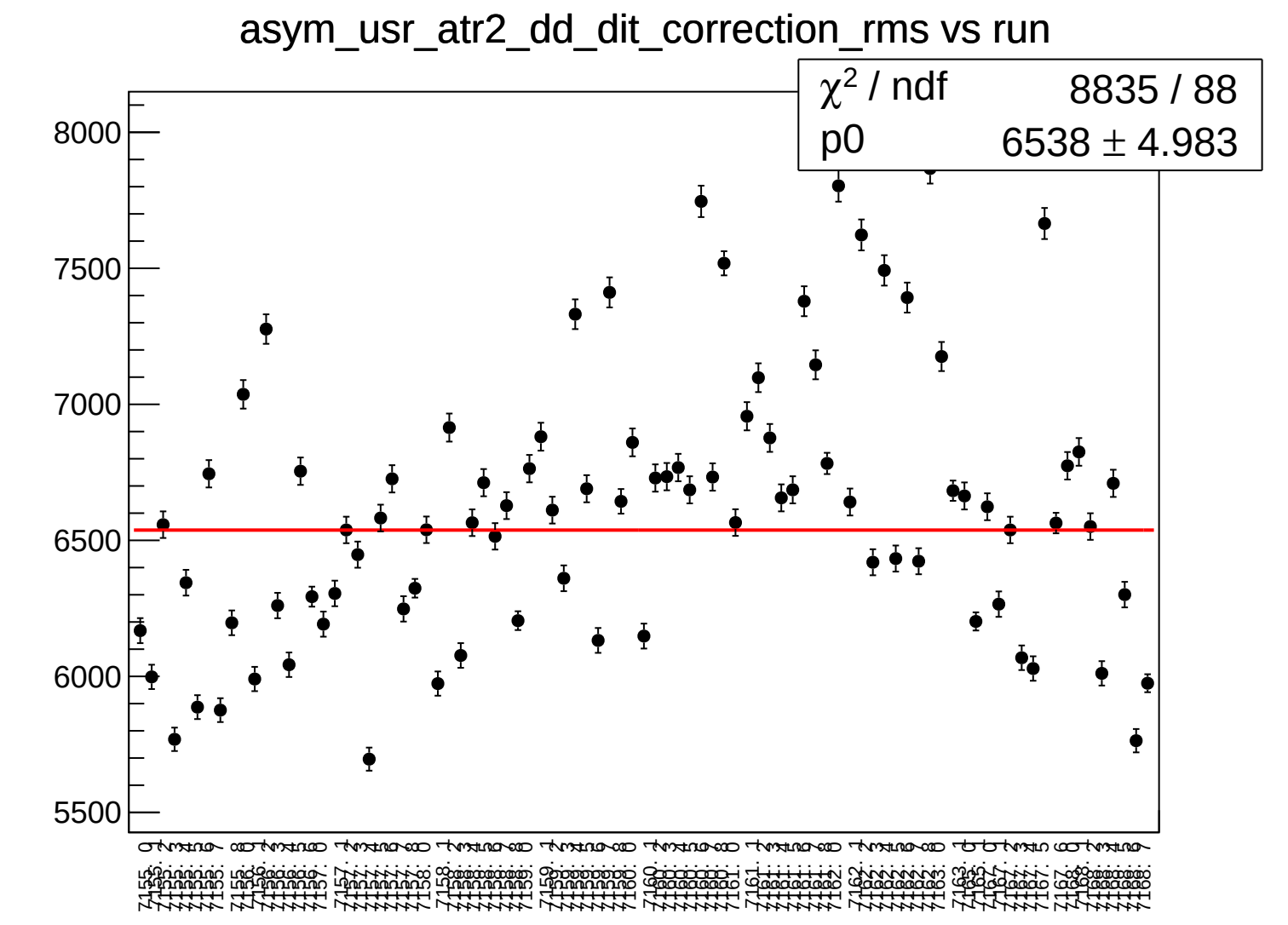

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 102.5 / 88
p0 315.8 ± 1197
pull
Entries 89
Mean 699.2
Std Dev 0

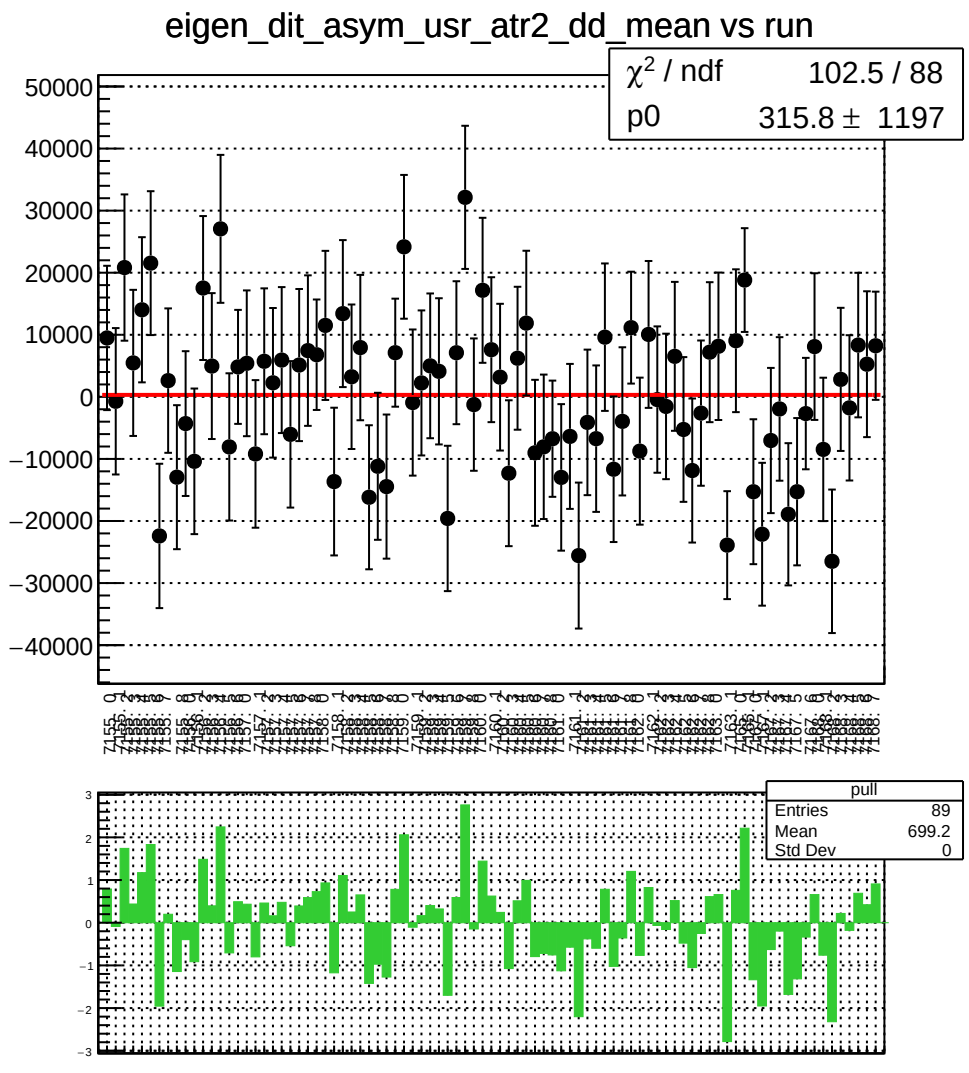

pull1D
Entries 89
Mean −0.009579
Std Dev 1.073

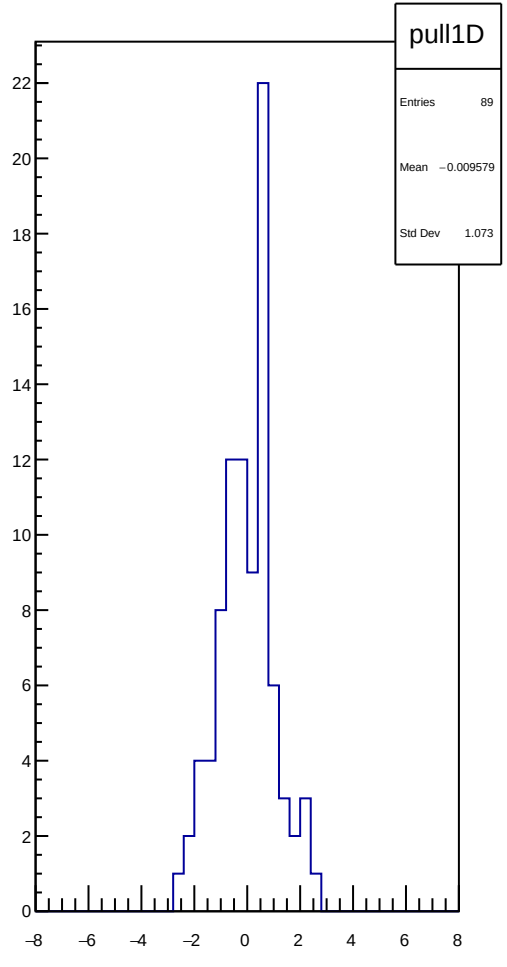

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 280.1 / 88
p0 1113 ± 0.8462
1180
1160
1140
1120
1100
1080


asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.42 / 88
p0 1058 ± 7047
200
100
0
−100
−200
pull
Entries 89
Mean −8.661
Std Dev 0
2
1
0
−1
−2

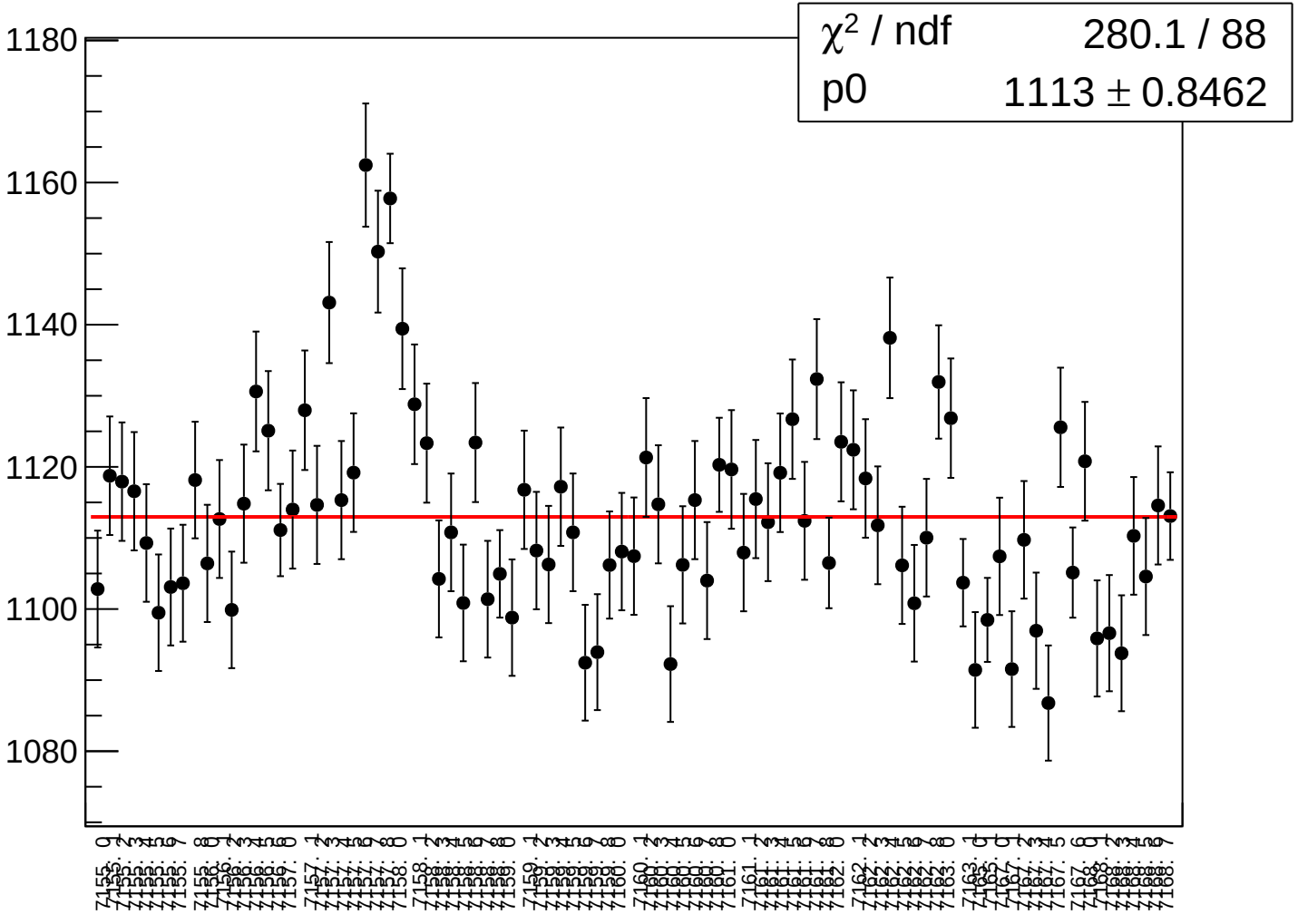

pull1D
Entries 89
Mean −0.02306
Std Dev 0.8765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

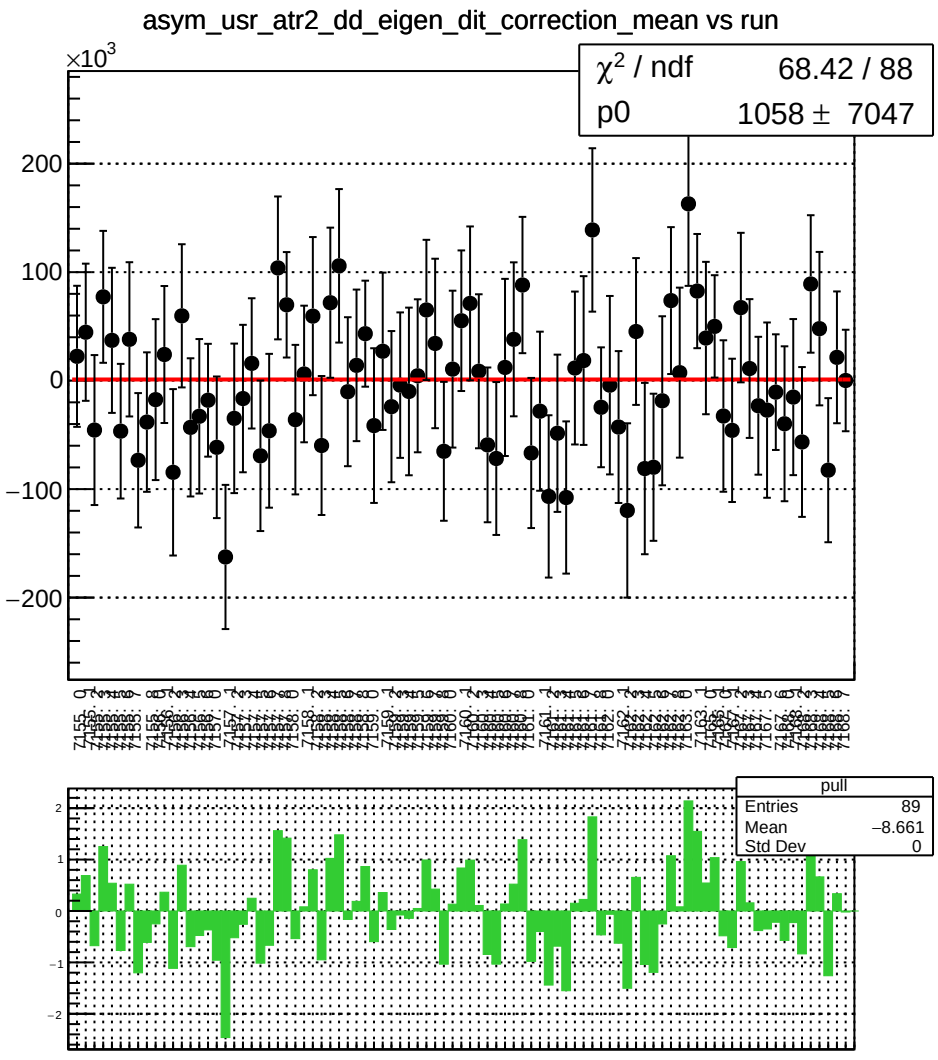

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 8835 / 88
p0 6538 ± 4.983
8000
7500
7000
6500
6000
5500

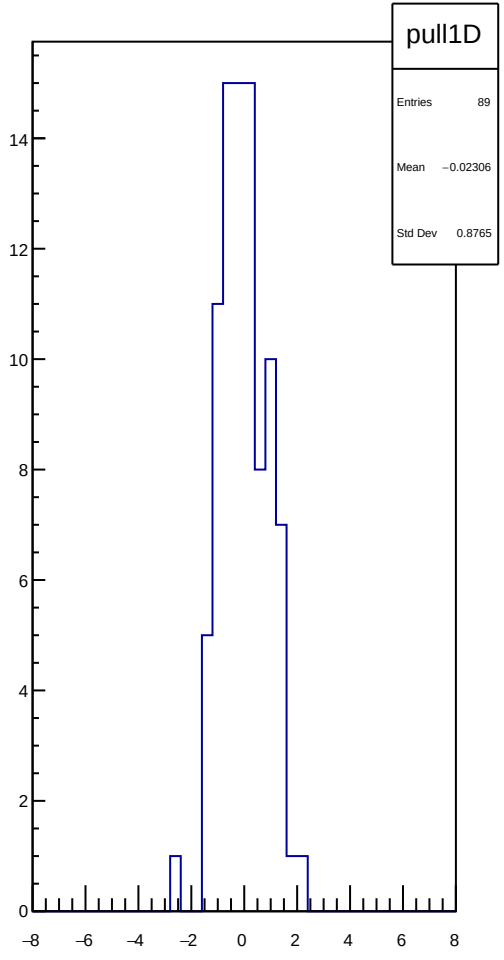

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 102.5 / 88
p0 315.8 ± 1197
pull
Entries 89
Mean 699.2
Std Dev 0

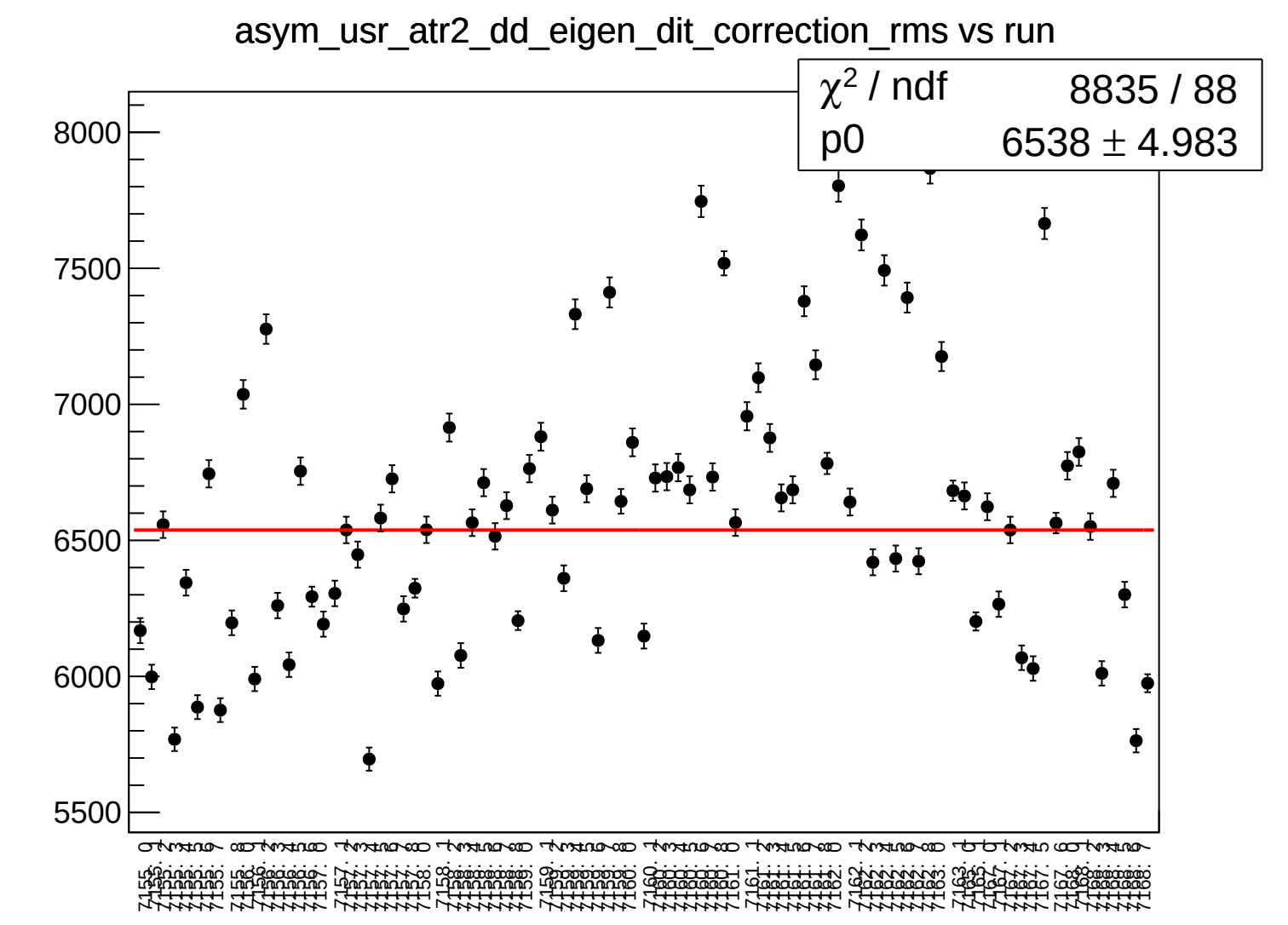

pull1D
Entries 89
Mean −0.009579
Std Dev 1.073

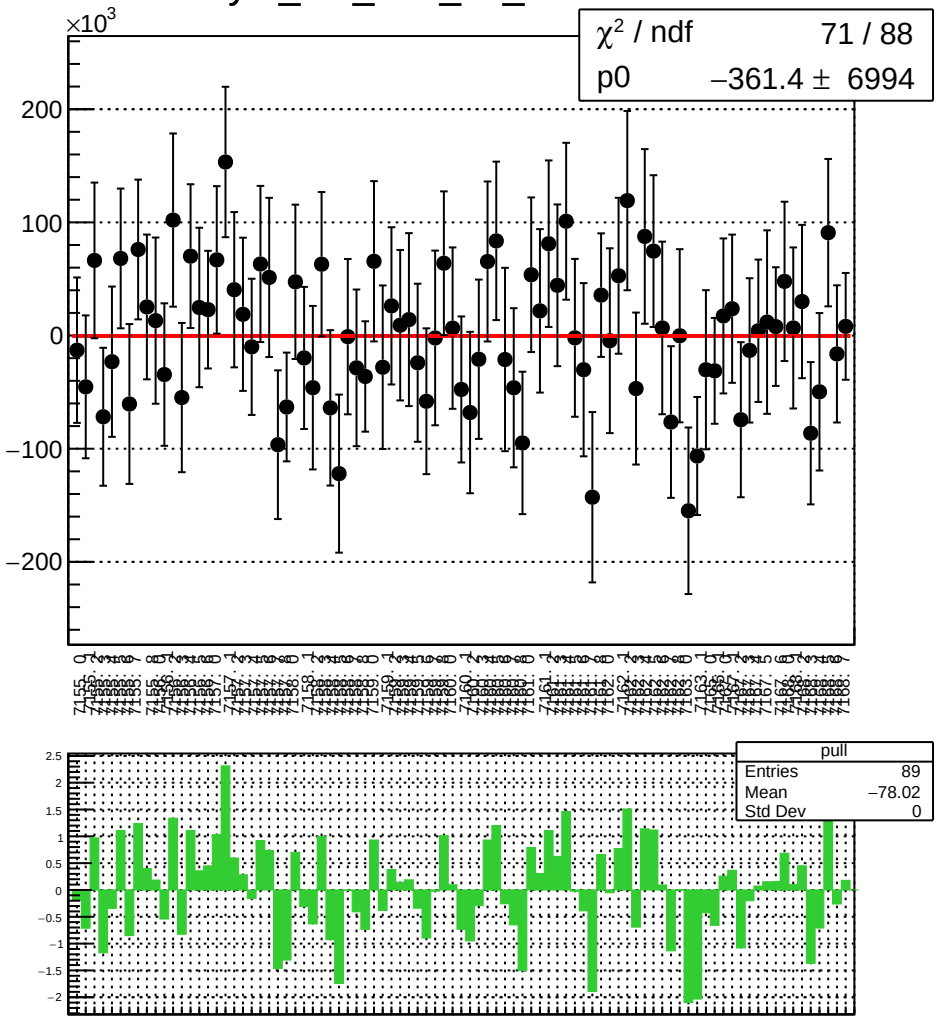
eigen_dit_asym_usr_atr2_dd_rms vs run

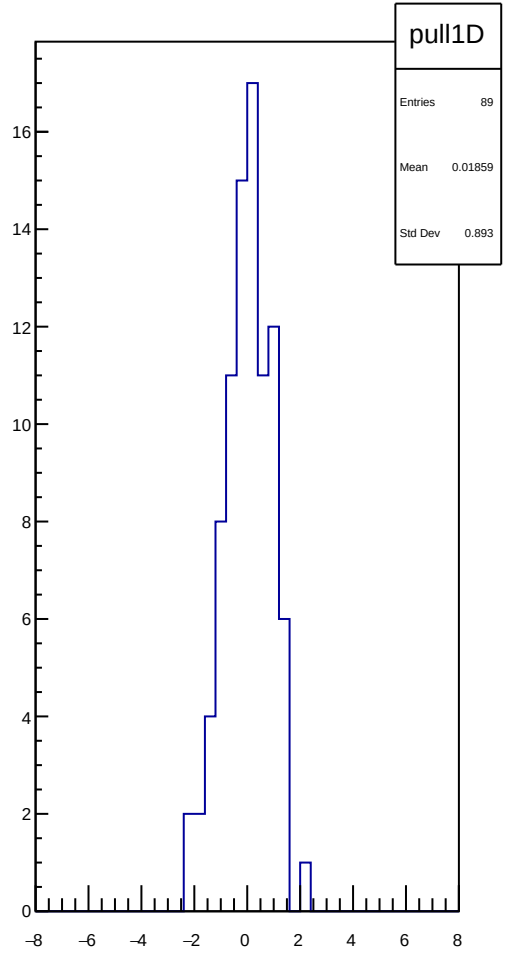


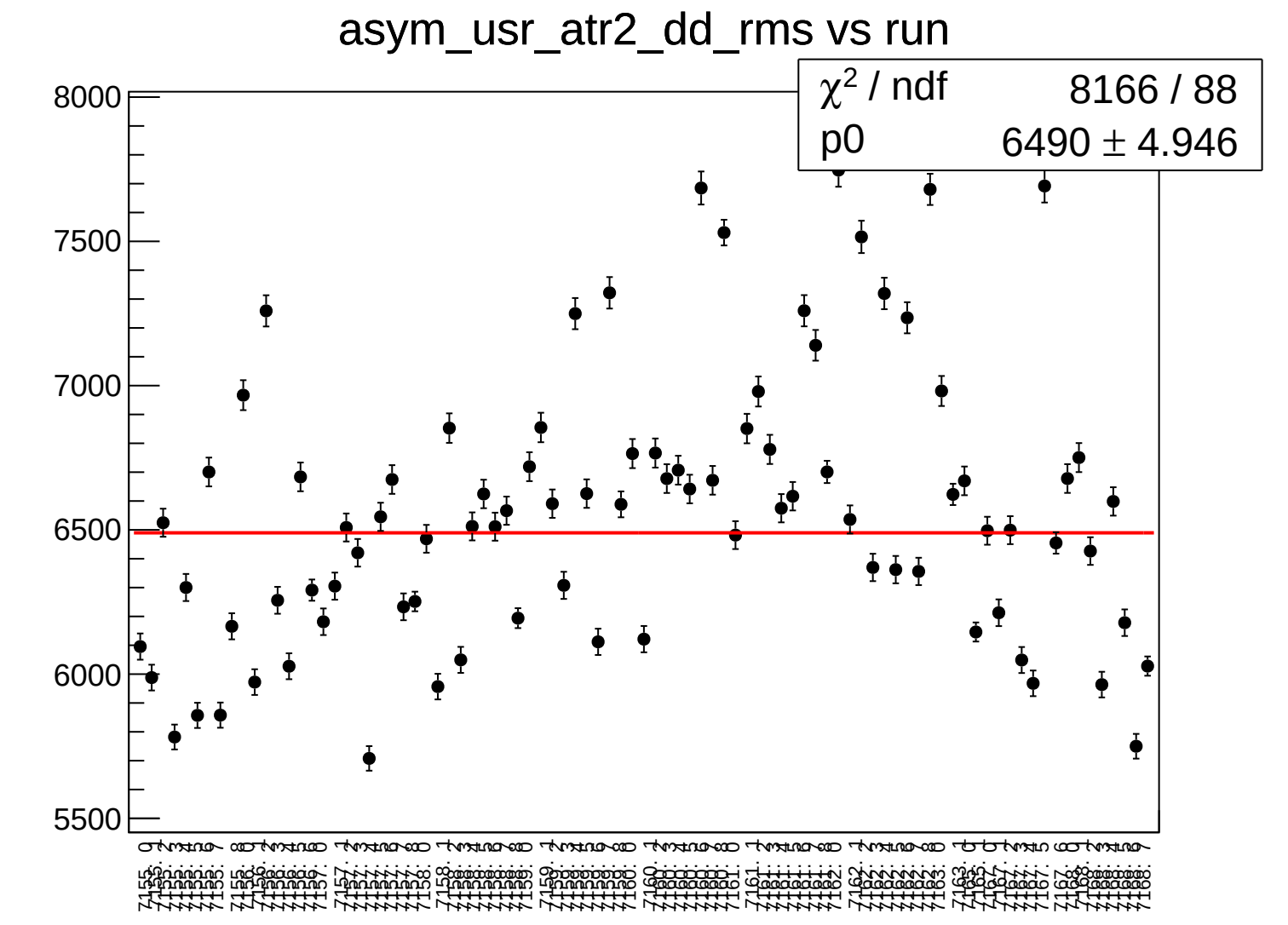

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.42 / 88
p0 1058 ± 7047
200
100
0
−100
−200
pull
Entries 89
Mean −8.661
Std Dev 0
2
1
0
−1
−2

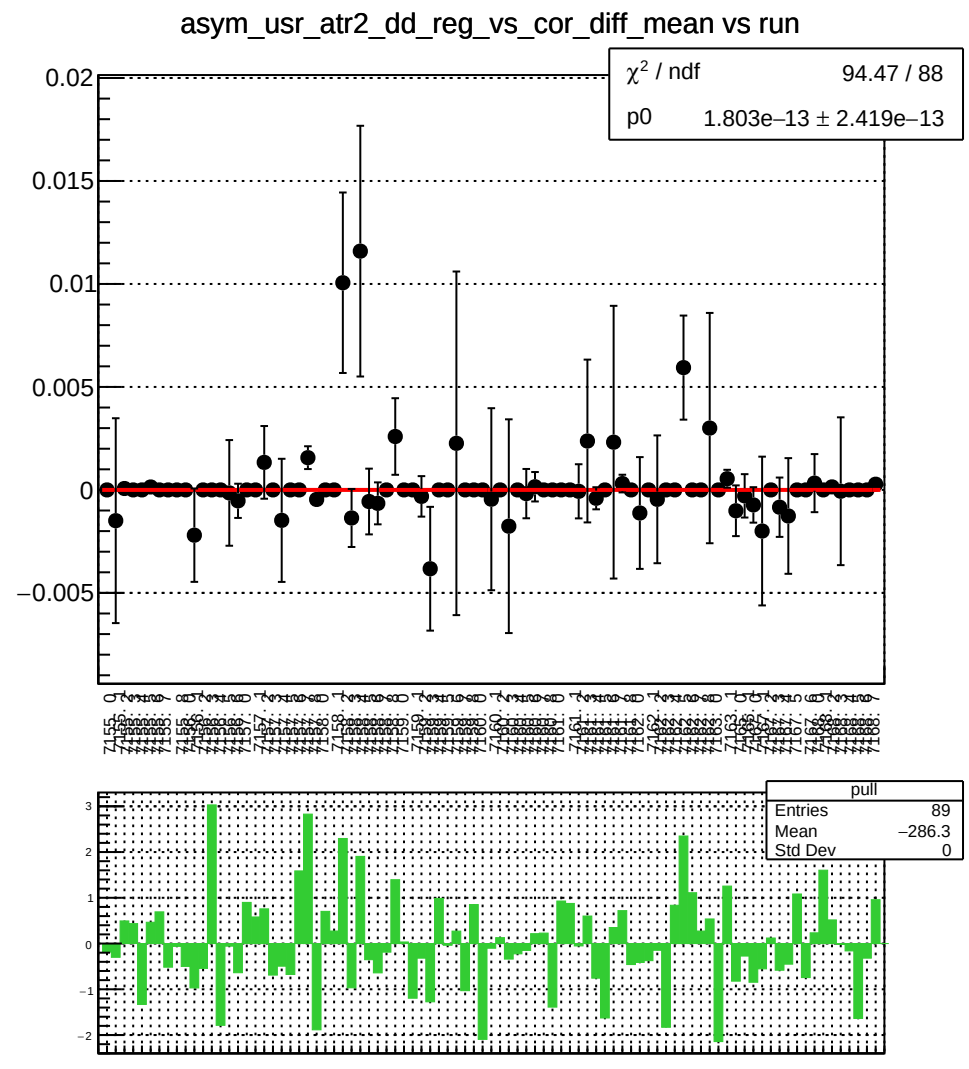

pull1D
Entries 89
Mean −0.02306
Std Dev 0.8765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

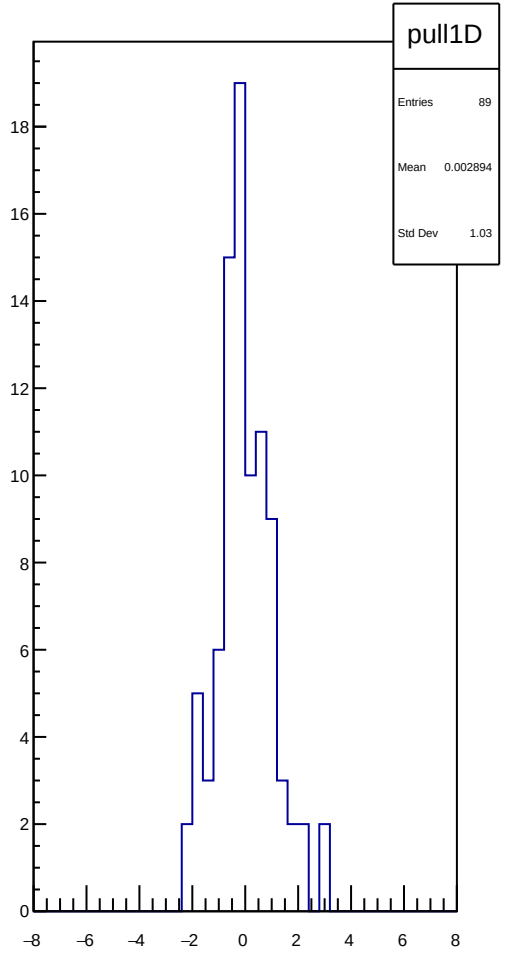

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8835 / 88
p0 6538 ± 4.983
8000
7500
7000
6500
6000
5500

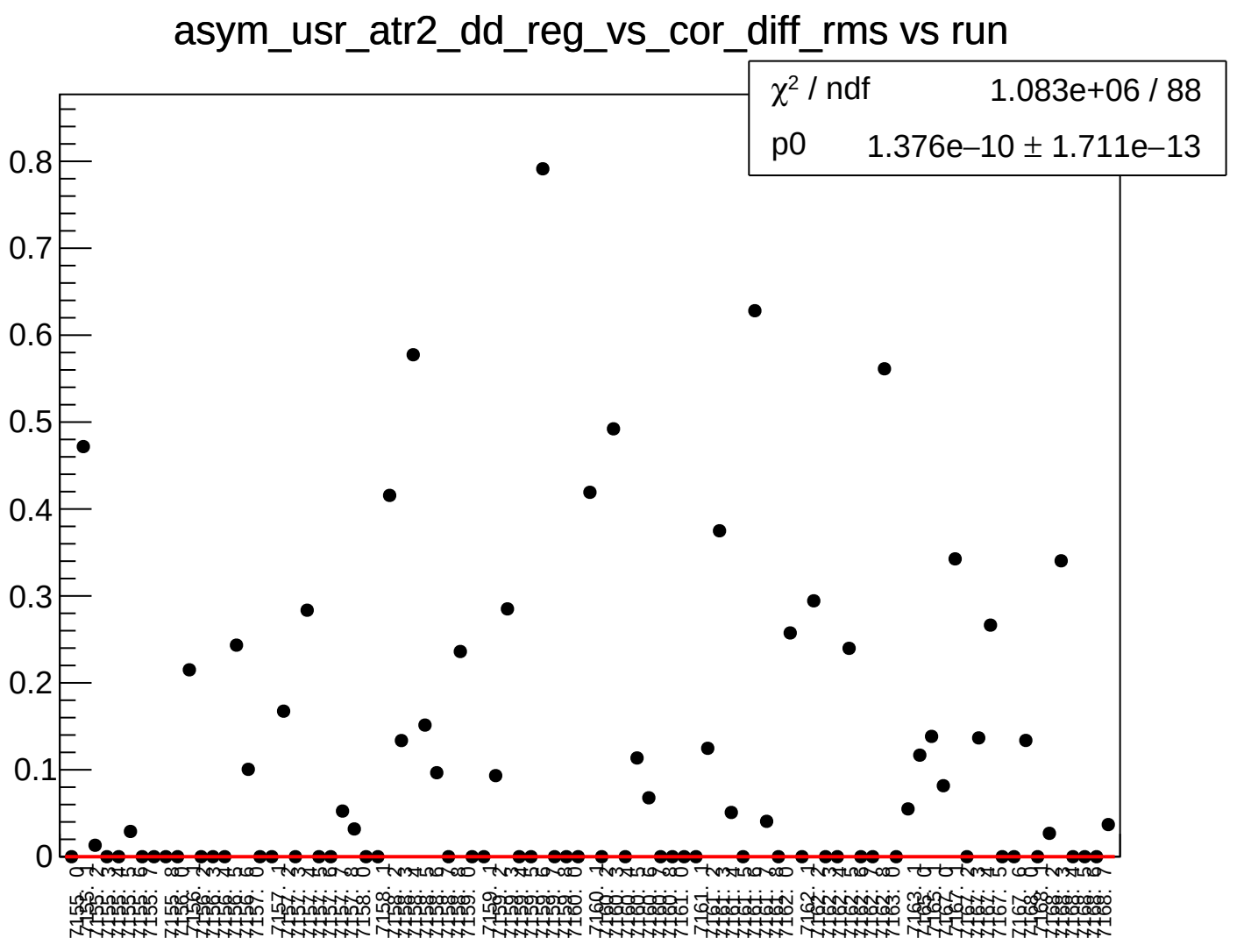

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 71 / 88
p0 −361.4 ± 6994
200
100
0
−100
−200
pull
Entries 89
Mean −78.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

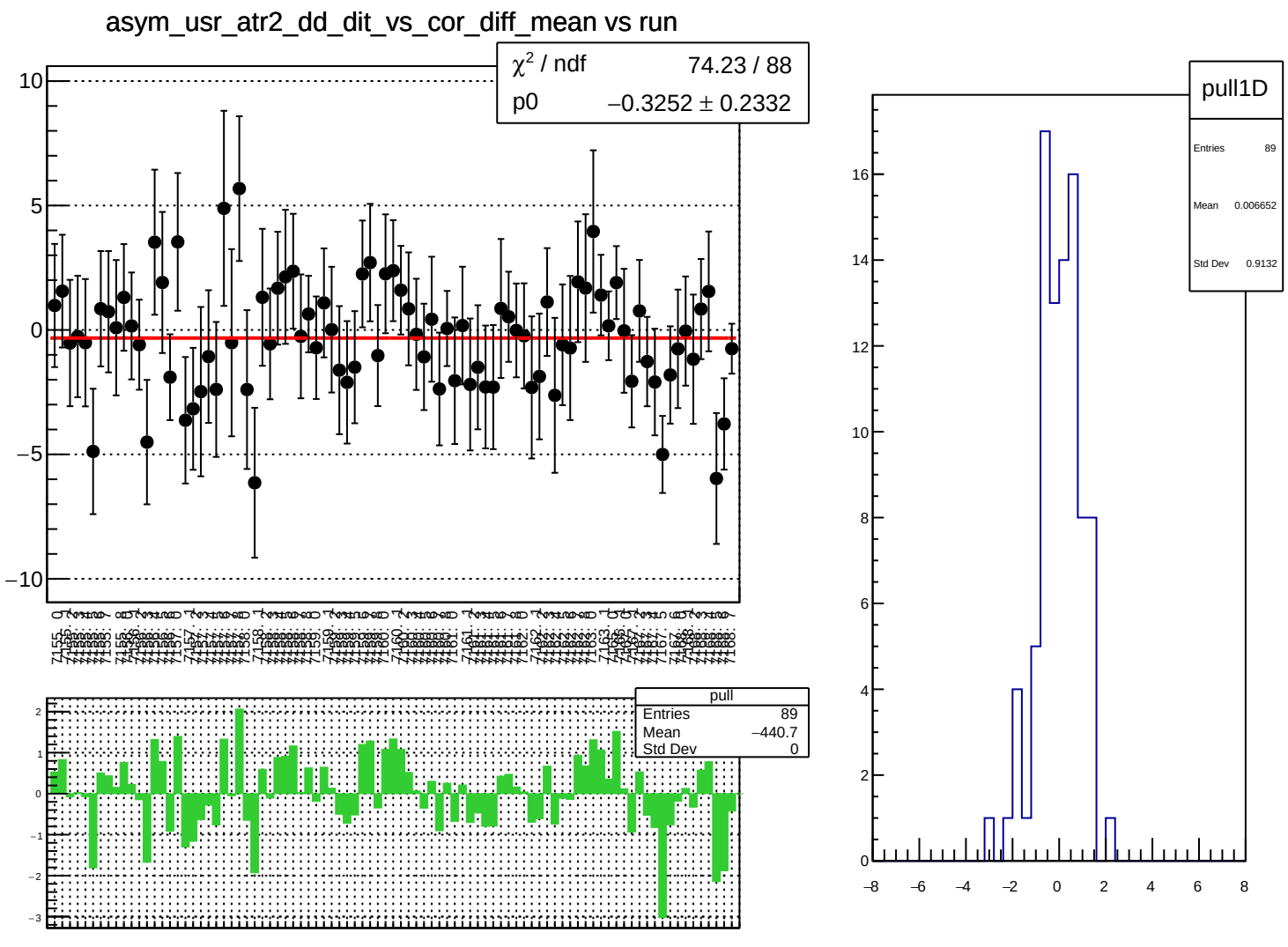

pull1D
Entries 89
Mean 0.01859
Std Dev 0.893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

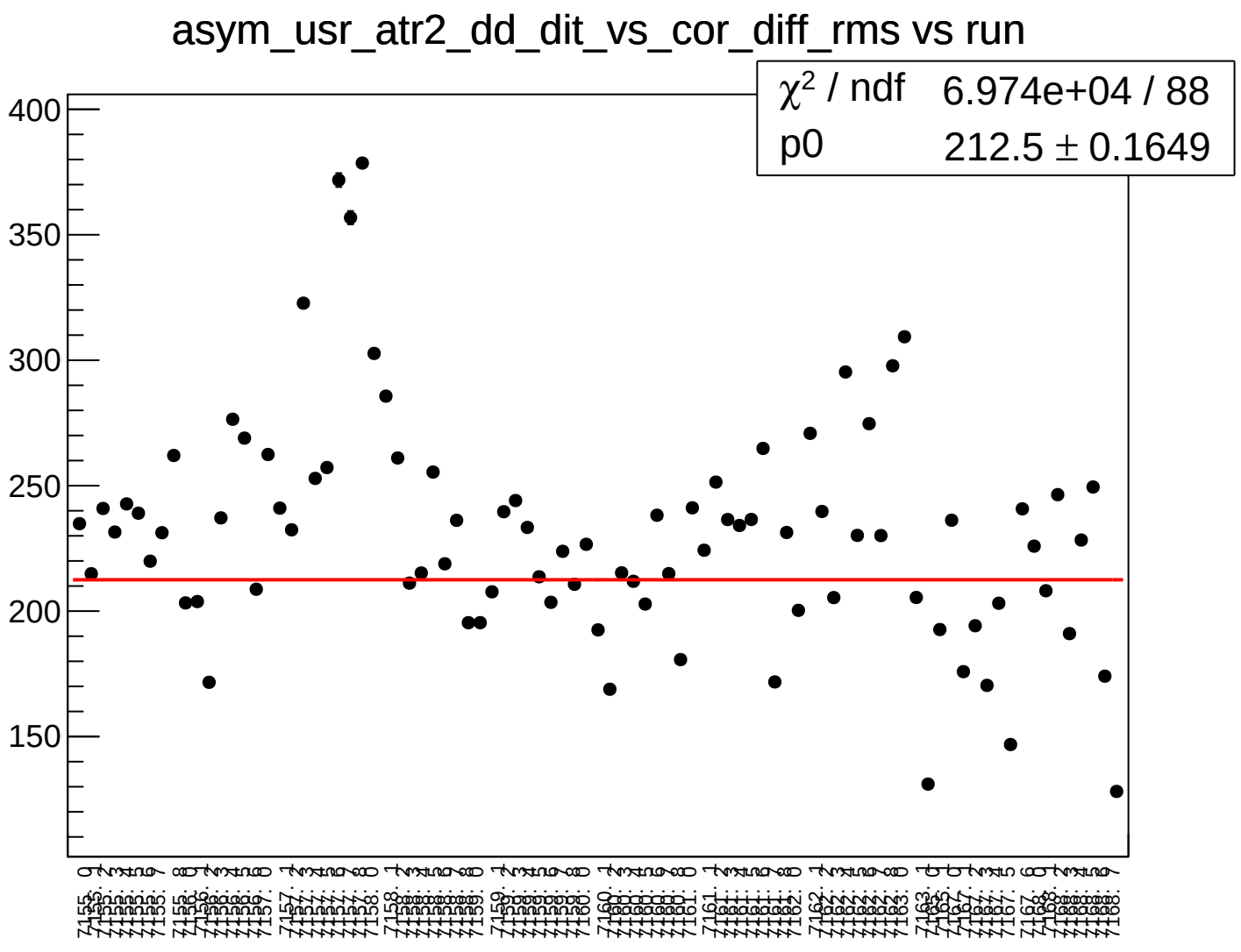

asym_usr_atr2_dd_rms vs run
χ² / ndf 8166 / 88
p0 6490 ± 4.946
8000
7500
7000
6500
6000
5500

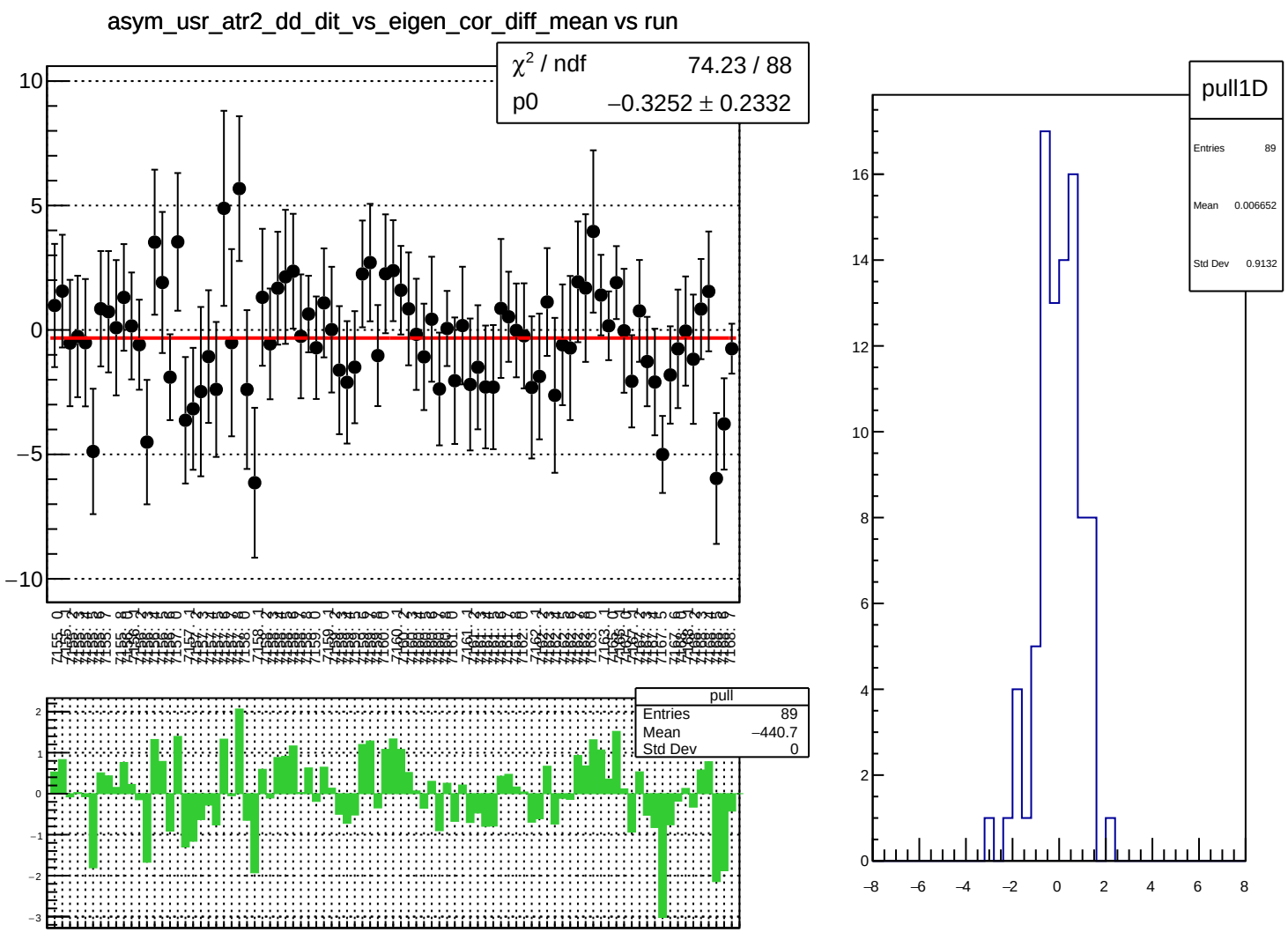

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.47 / 88
p0 1.803e−13 ± 2.419e−13
0.02
0.015
0.01
0.005
0
−0.005
pull
Entries 89
Mean −286.3
Std Dev 0
3
2
1
0
−1
−2

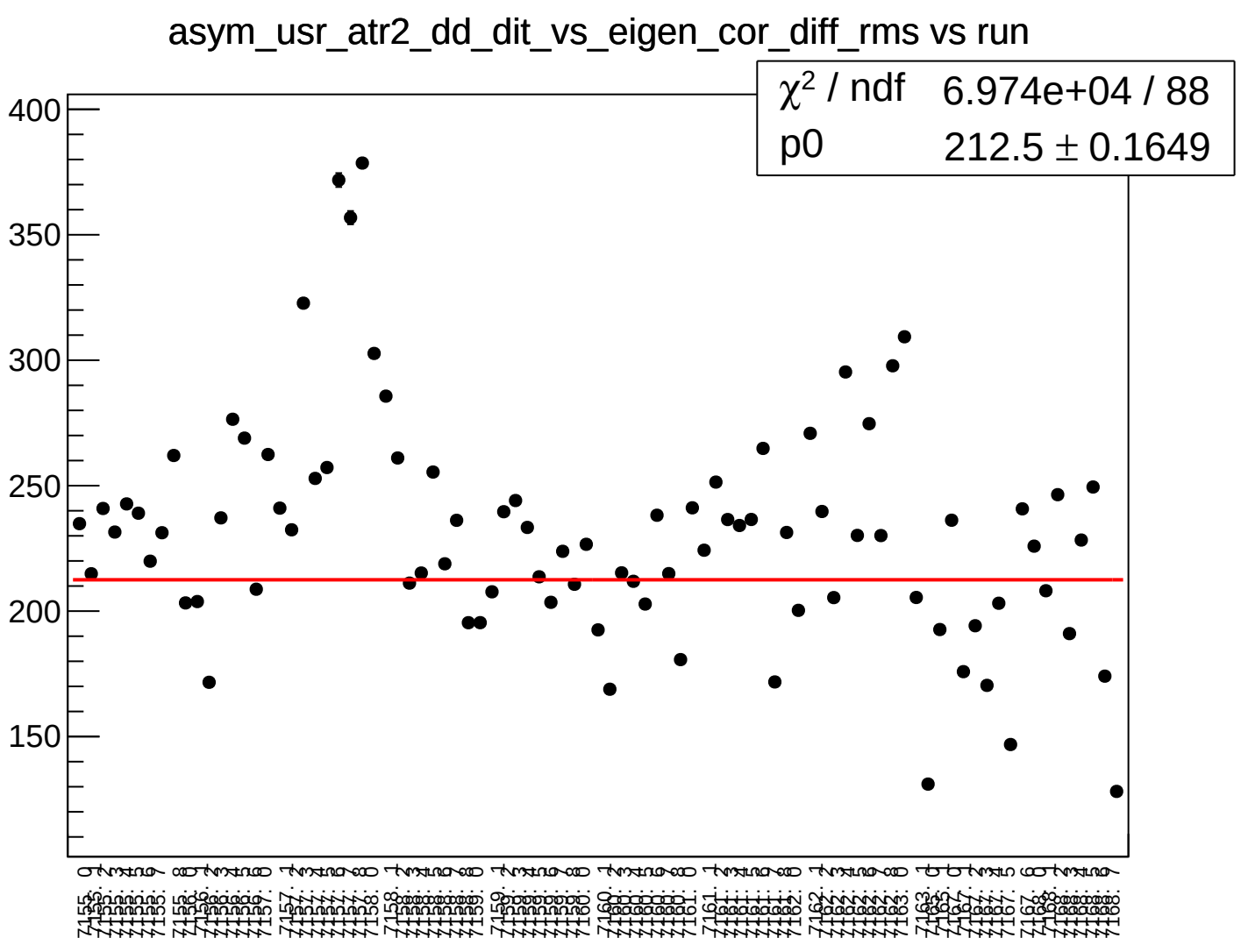

pull1D
Entries 89
Mean 0.002894
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

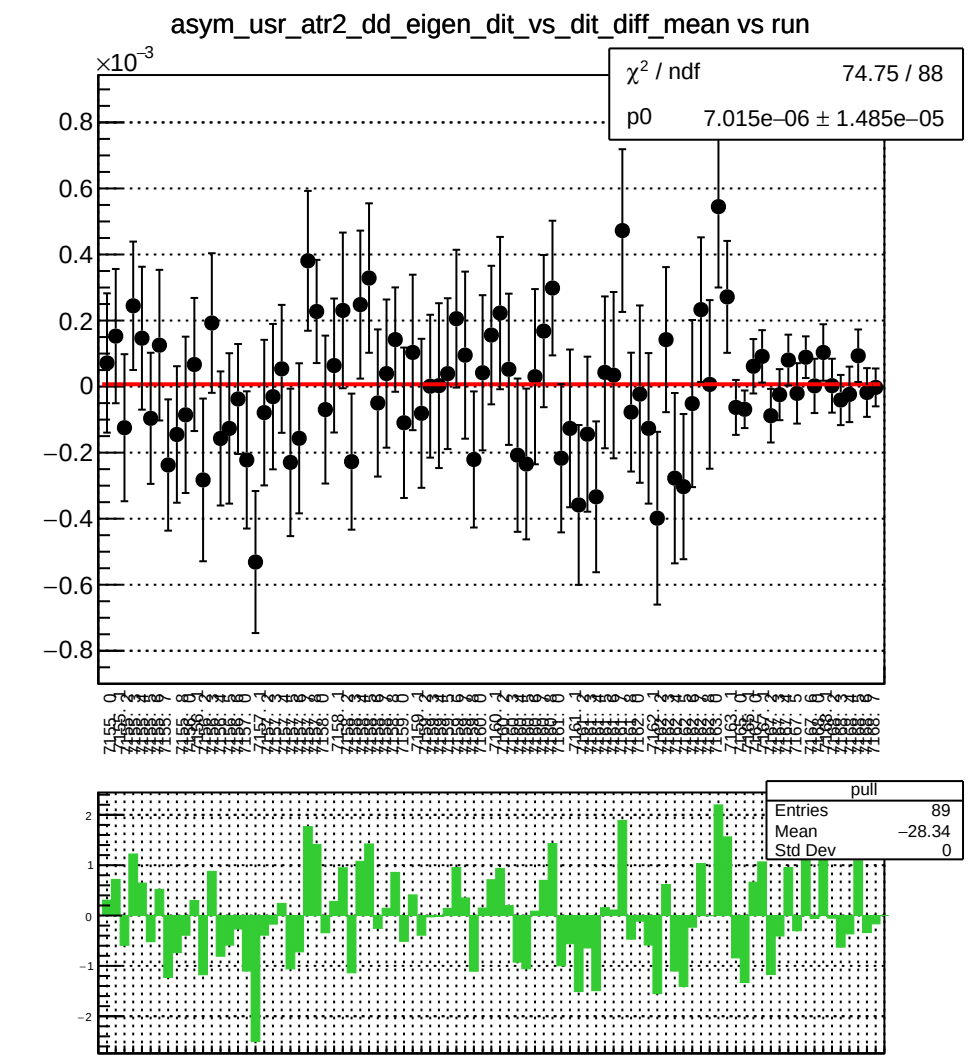

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.083e+06 / 88
p0 1.376e−10 ± 1.711e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

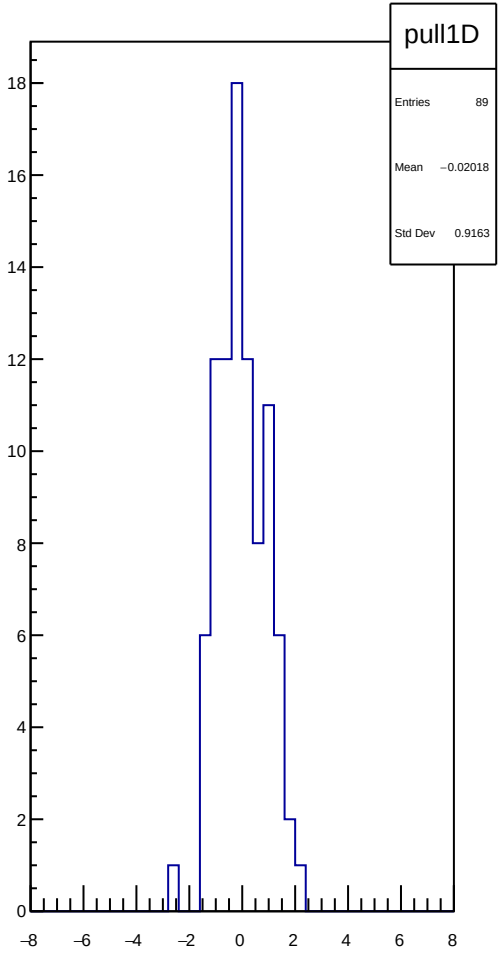

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 74.23 / 88
p0 −0.3252 ± 0.2332
pull
Entries 89
Mean −440.7
Std Dev 0
pull1D
Entries 89
Mean 0.006652
Std Dev 0.9132

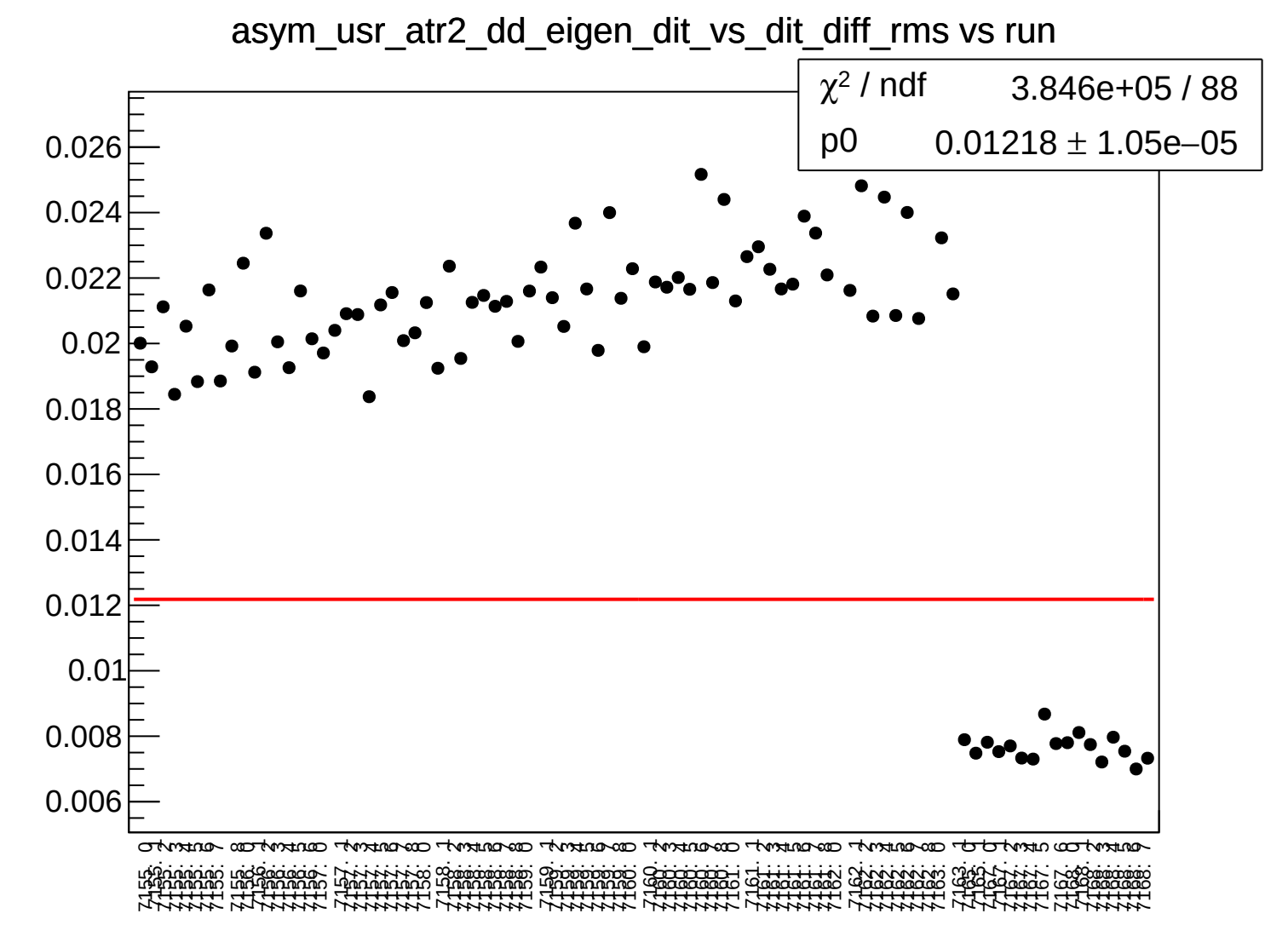

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.974e+04 / 88
p0 212.5 ± 0.1649
400
350
300
250
200
150

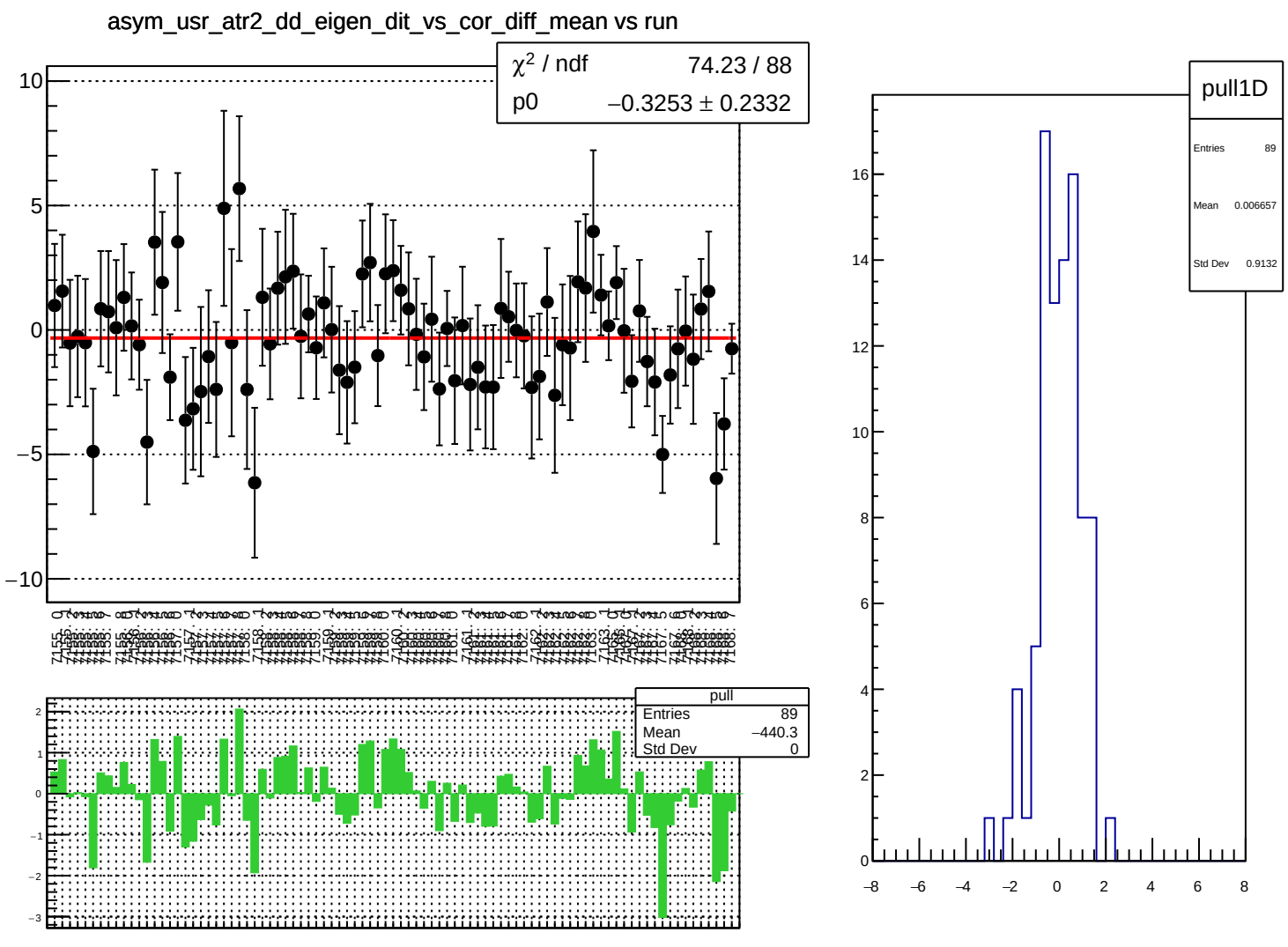

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.23 / 88
p0 −0.3252 ± 0.2332
pull
Entries 89
Mean −440.7
Std Dev 0
pull1D
Entries 89
Mean 0.006652
Std Dev 0.9132

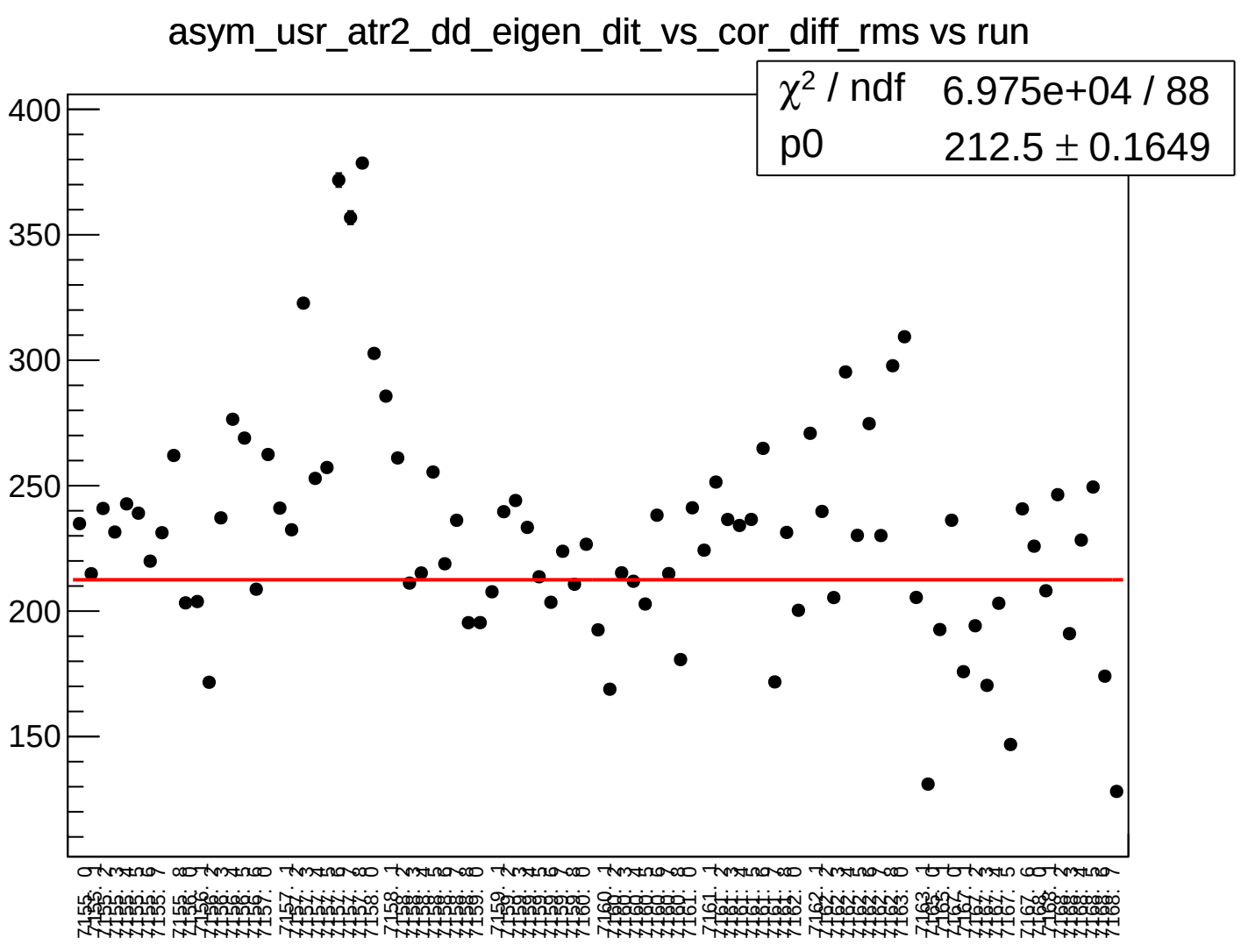

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.974e+04 / 88
p0 212.5 ± 0.1649
400
350
300
250
200
150

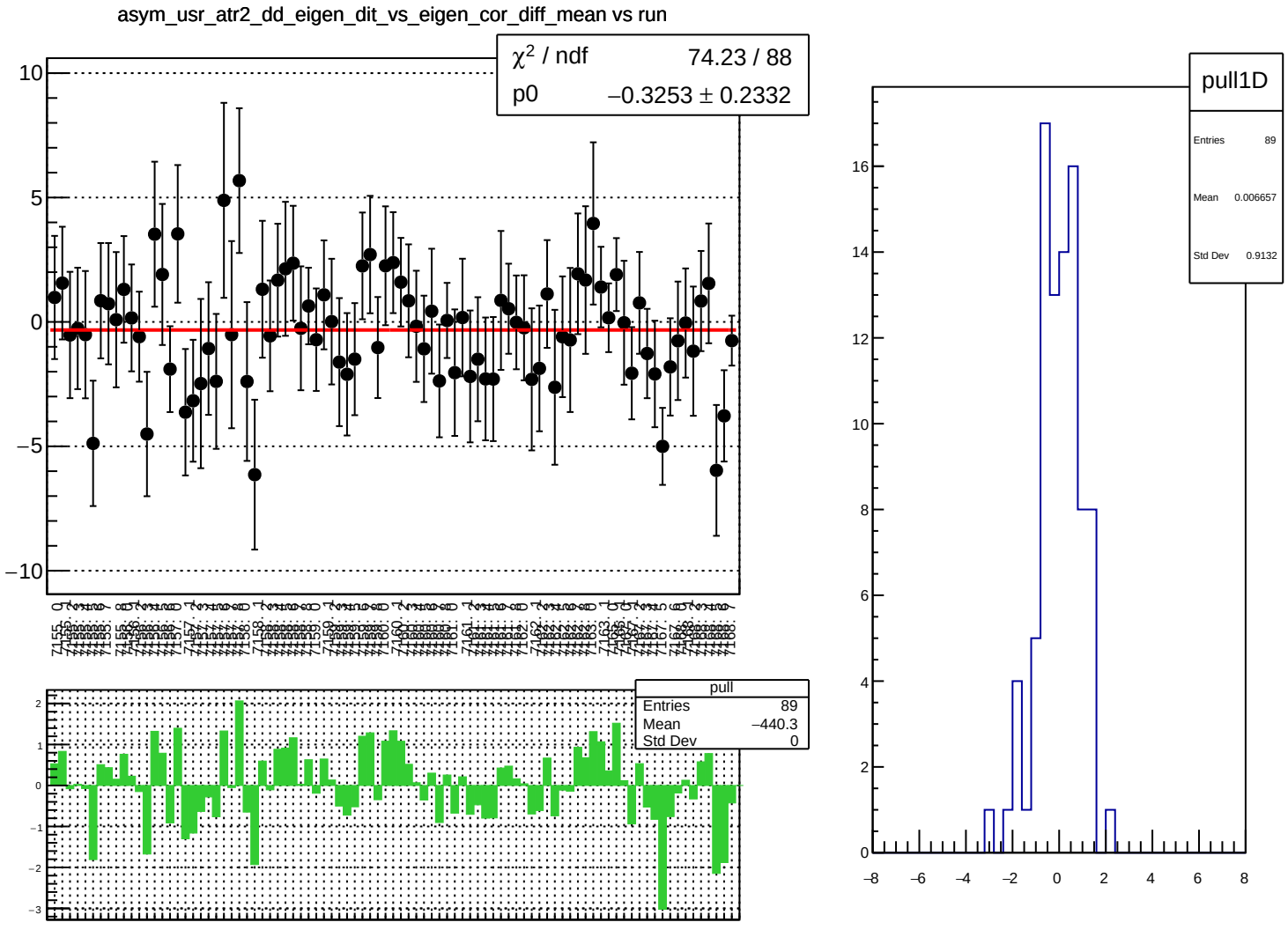

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.75 / 88
p0 7.015e−06 ± 1.485e−05
pull
Entries 89
Mean −28.34
Std Dev 0

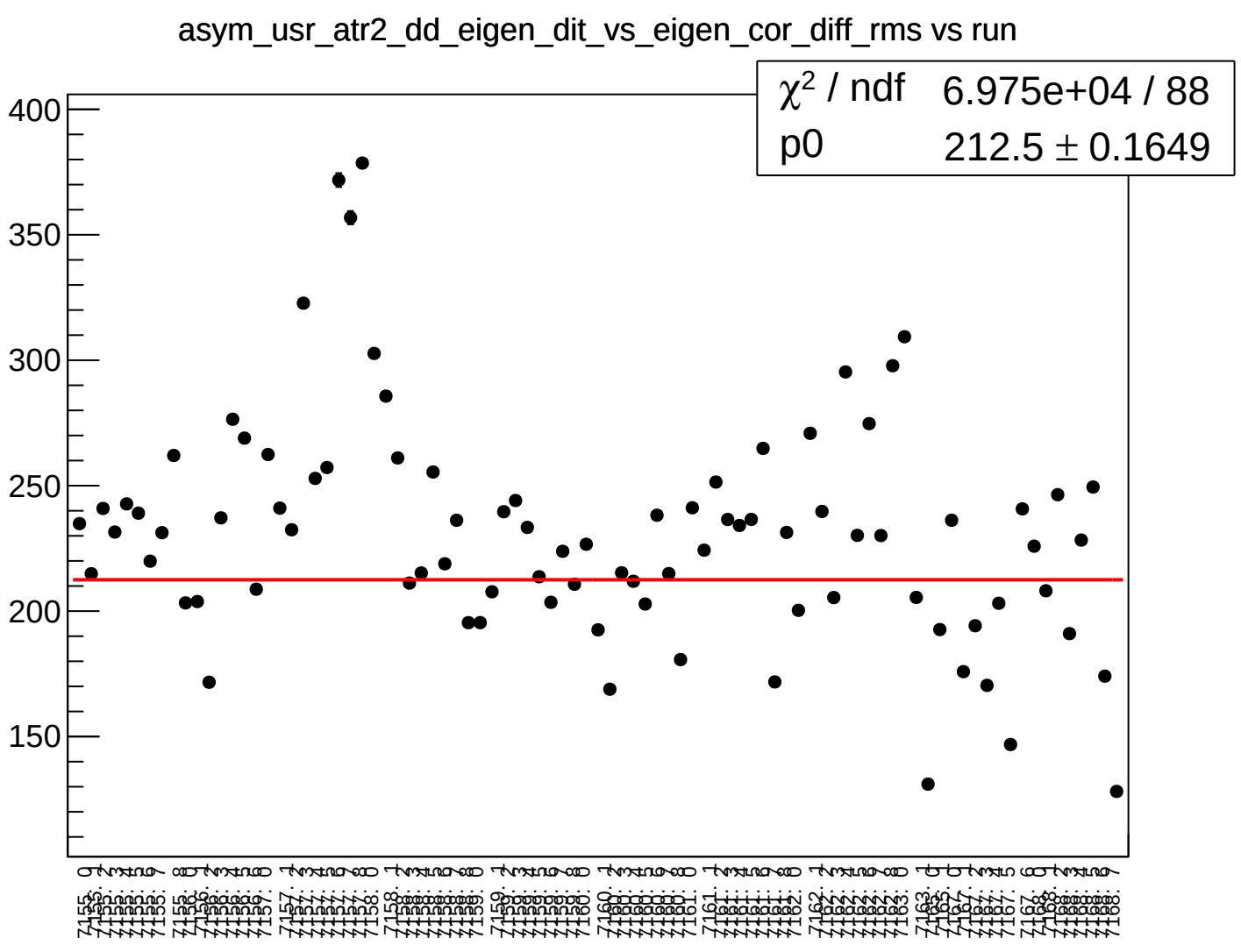

pull1D
Entries 89
Mean −0.02018
Std Dev 0.9163

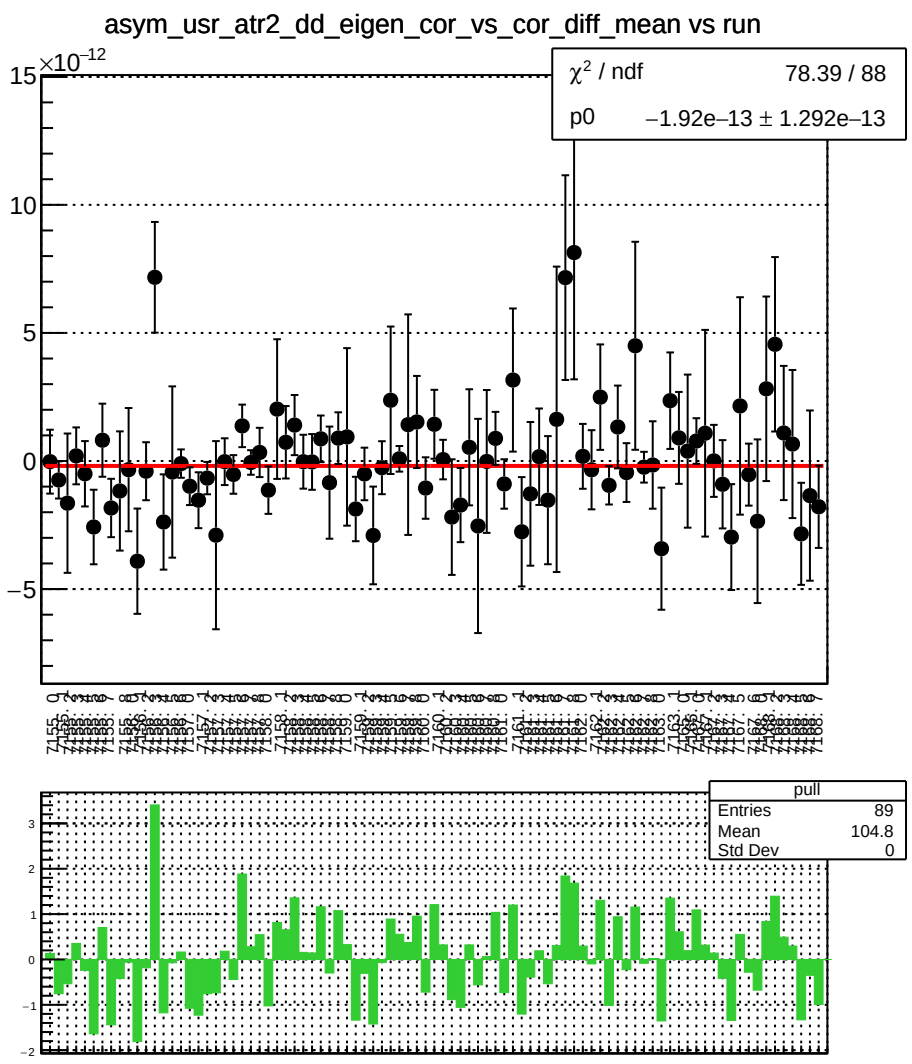

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.846e+05 / 88
p0 0.01218 ± 1.05e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

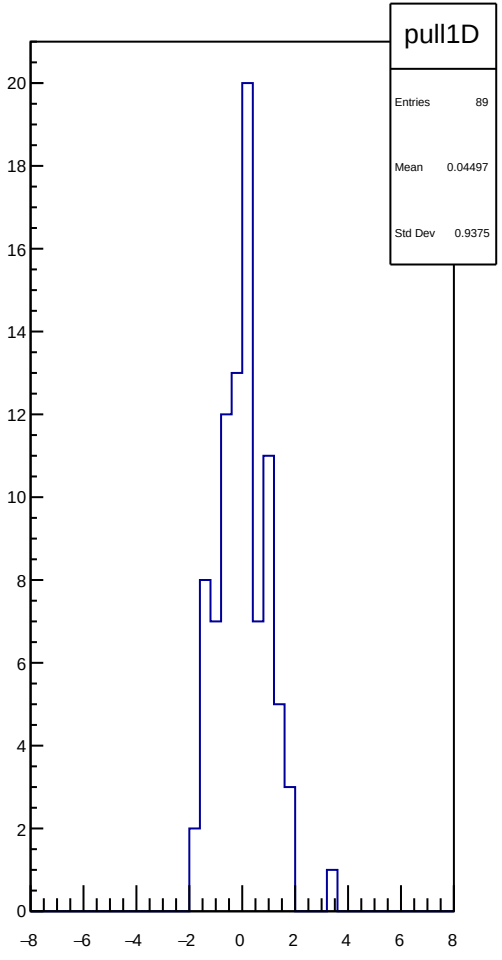

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.23 / 88
p0 −0.3253 ± 0.2332
pull
Entries 89
Mean −440.3
Std Dev 0
pull1D
Entries 89
Mean 0.006657
Std Dev 0.9132

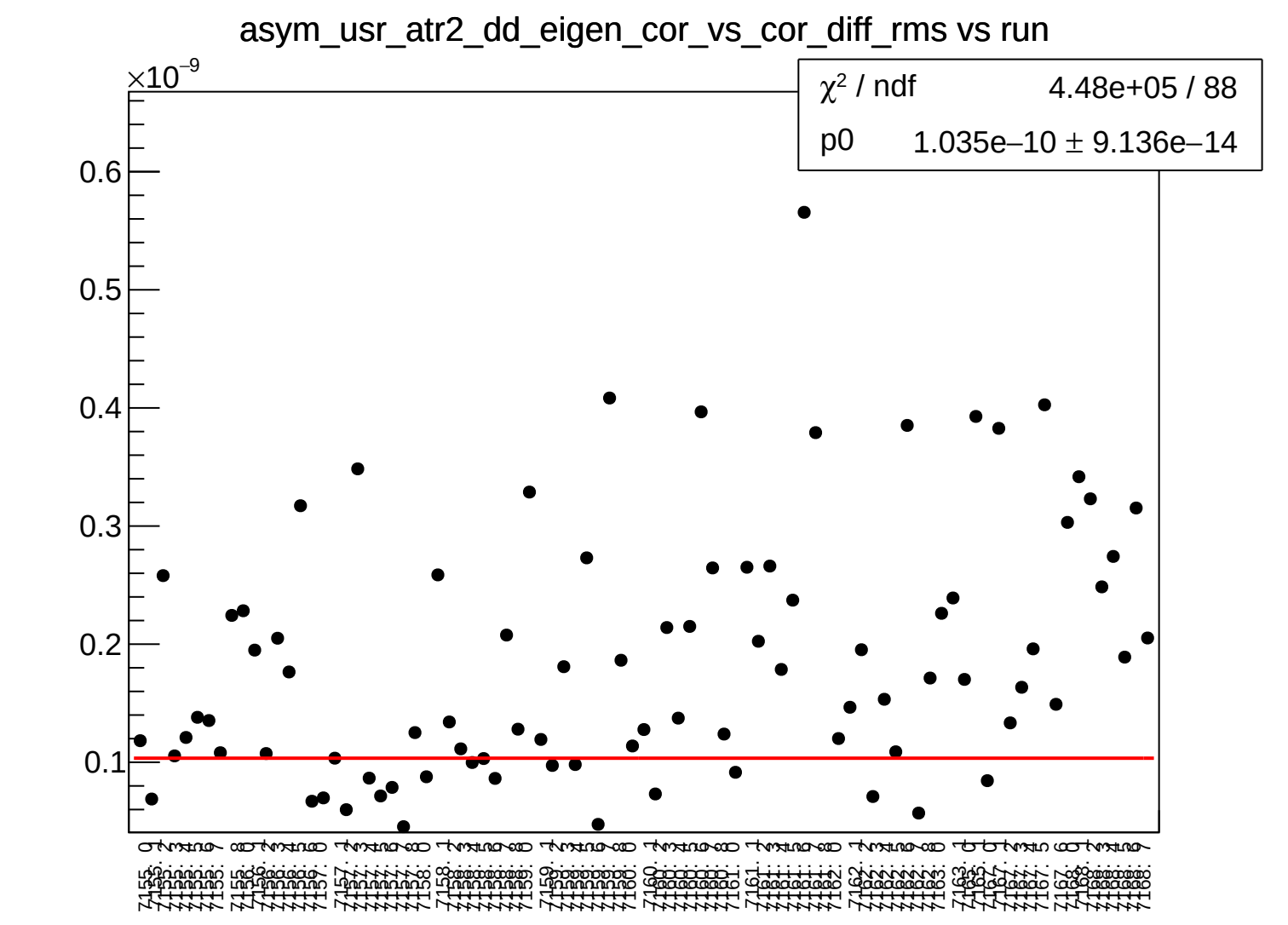

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.975e+04 / 88
p0 212.5 ± 0.1649
400
350
300
250
200
150

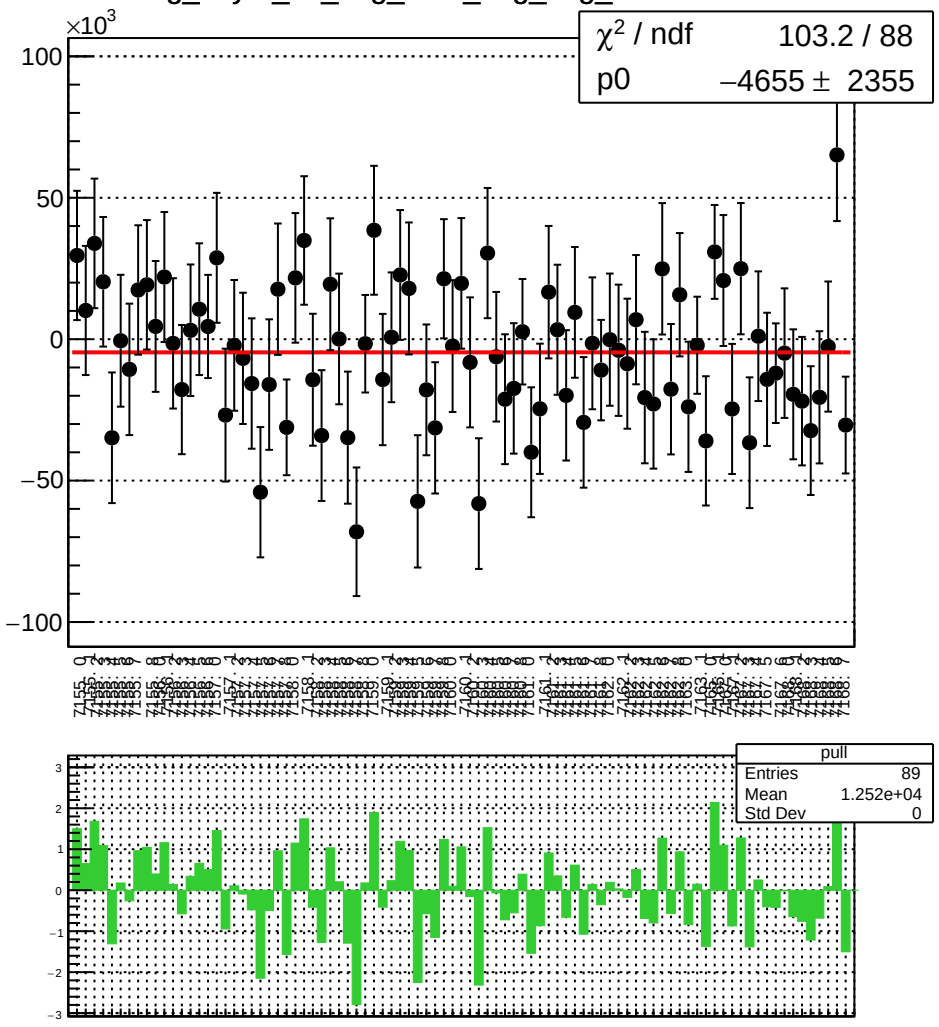

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.23 / 88
p0 −0.3253 ± 0.2332
pull
Entries 89
Mean −440.3
Std Dev 0
pull1D
Entries 89
Mean 0.006657
Std Dev 0.9132

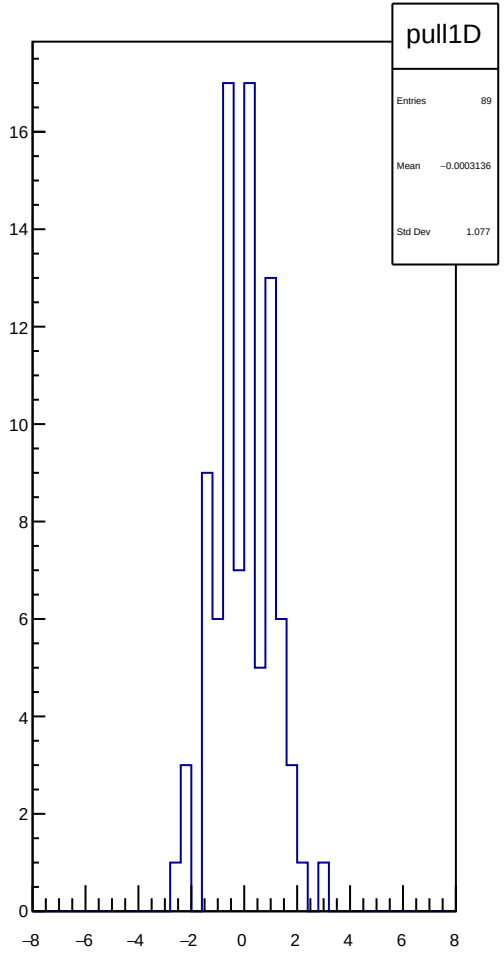

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.975e+04 / 88
p0 212.5 ± 0.1649
400
350
300
250
200
150

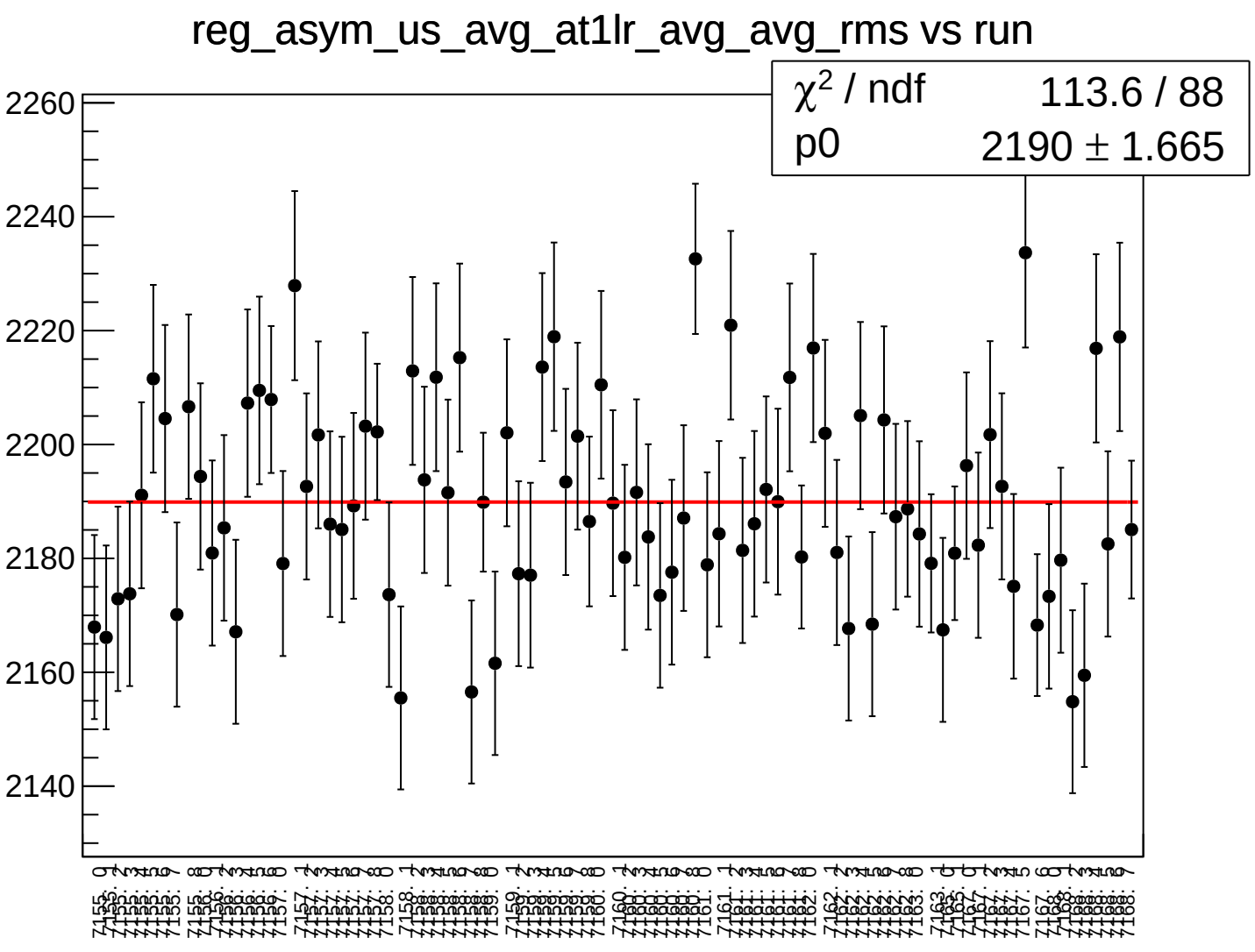

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.39 / 88
p0 −1.92e−13 ± 1.292e−13
pull
Entries 89
Mean 104.8
Std Dev 0

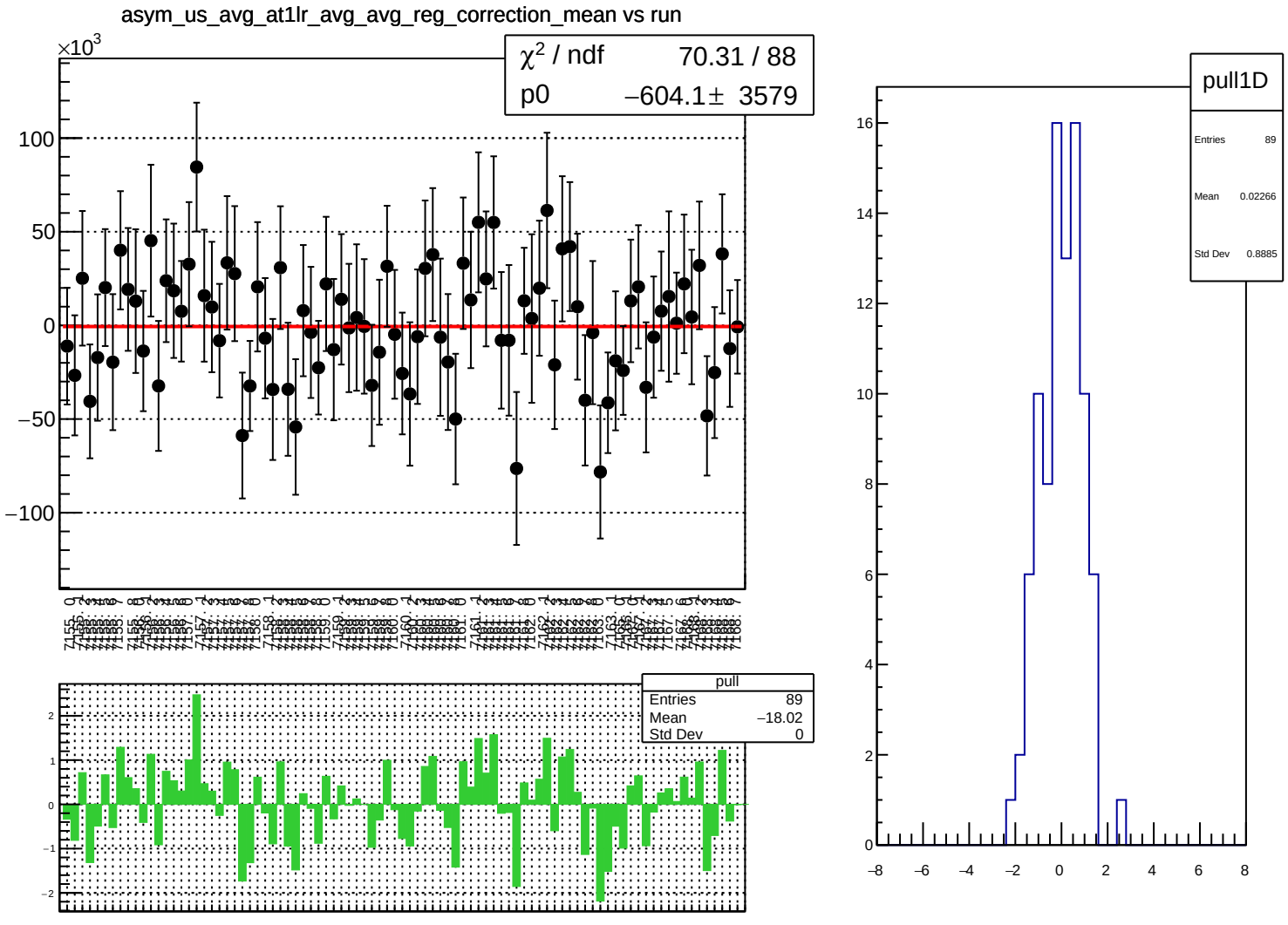

pull1D
Entries 89
Mean 0.04497
Std Dev 0.9375

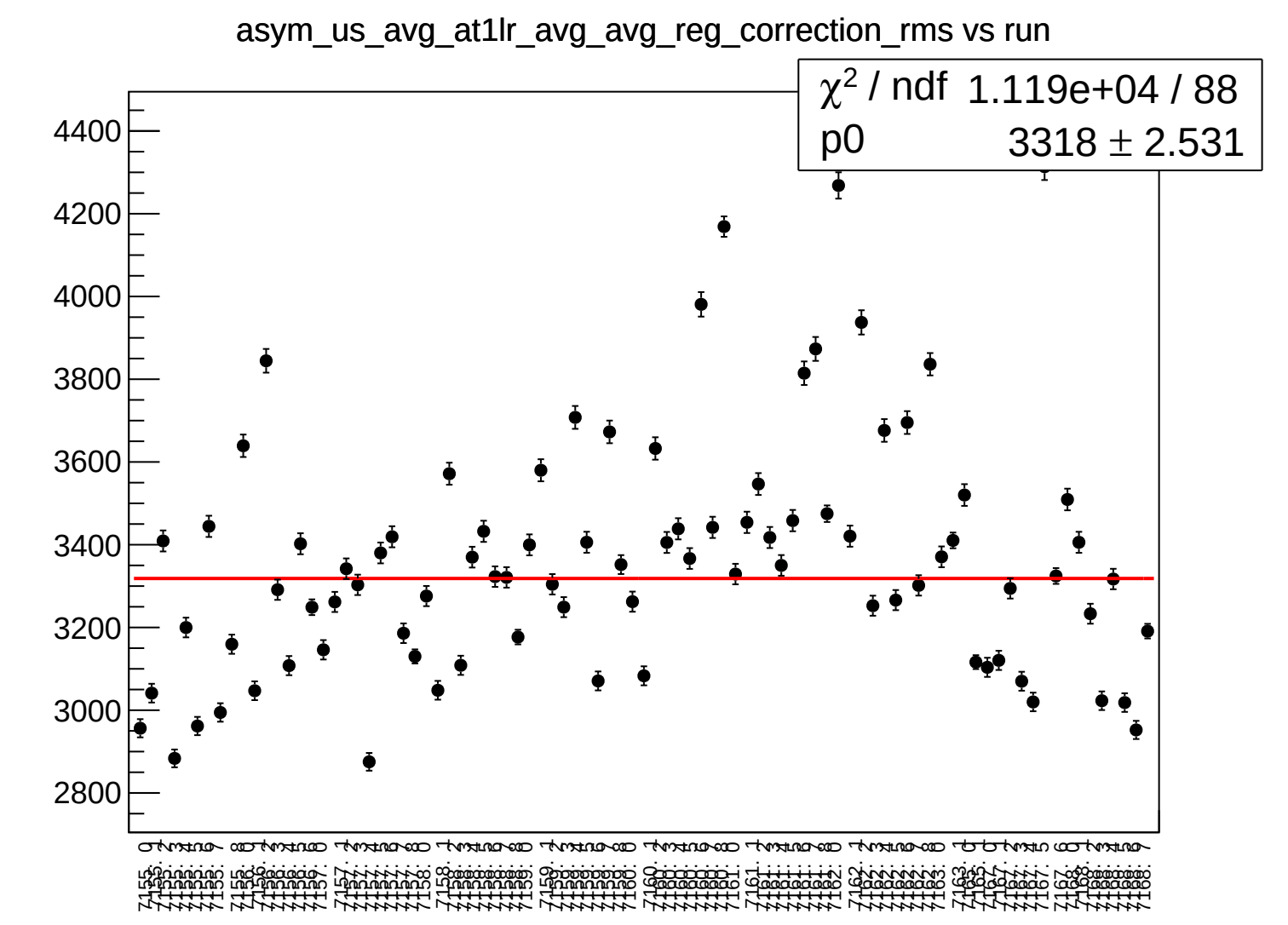

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.48e+05 / 88
p0 1.035e−10 ± 9.136e−14
0.6
0.5
0.4
0.3
0.2
0.1

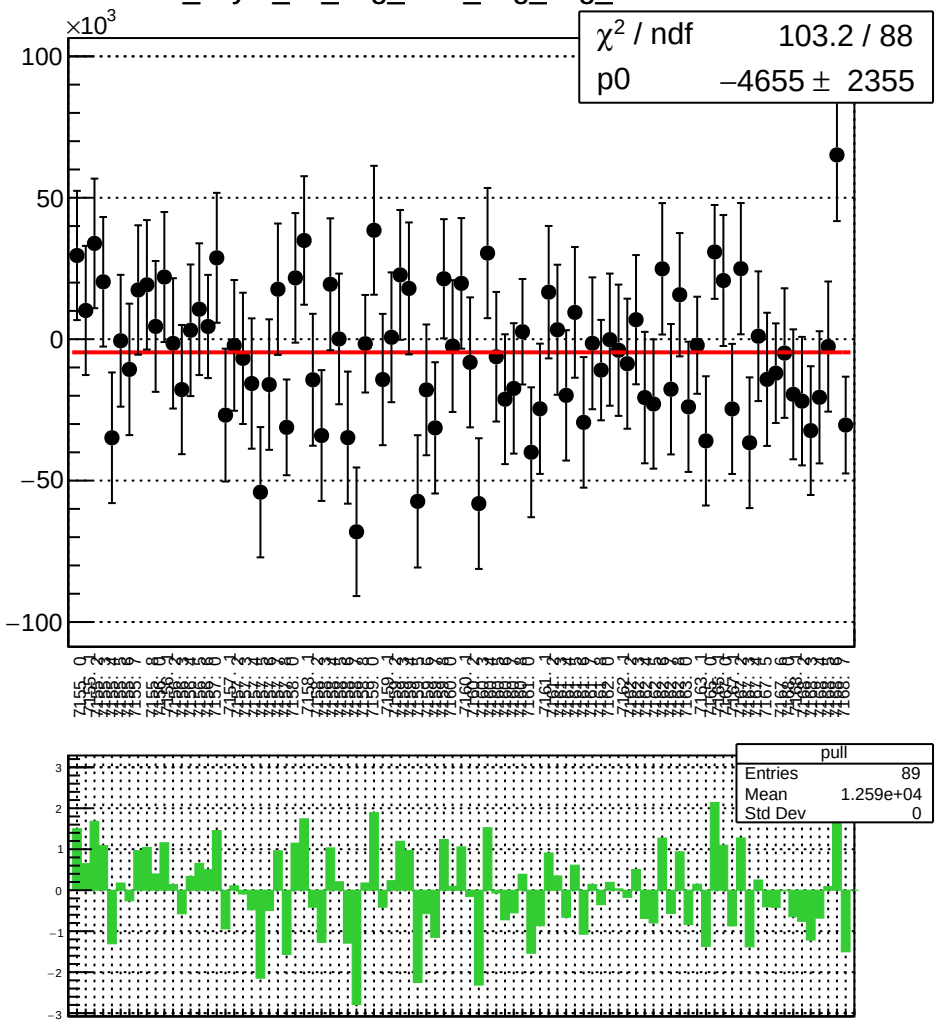

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.2 / 88
p0 −4655 ± 2355
100
50
0
−50
−100
pull
Entries 89
Mean 1.252e+04
Std Dev 0
3
2
1
0
−1
−2
−3

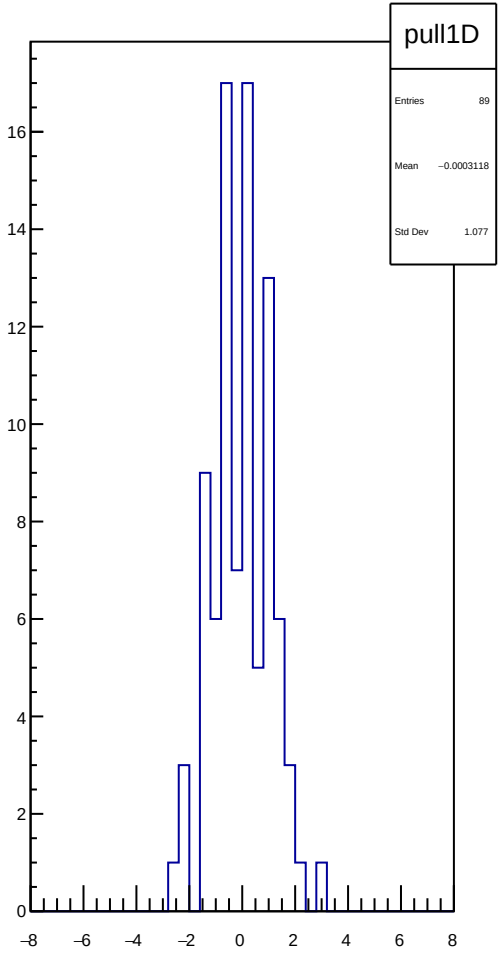

pull1D
Entries 89
Mean −0.0003136
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

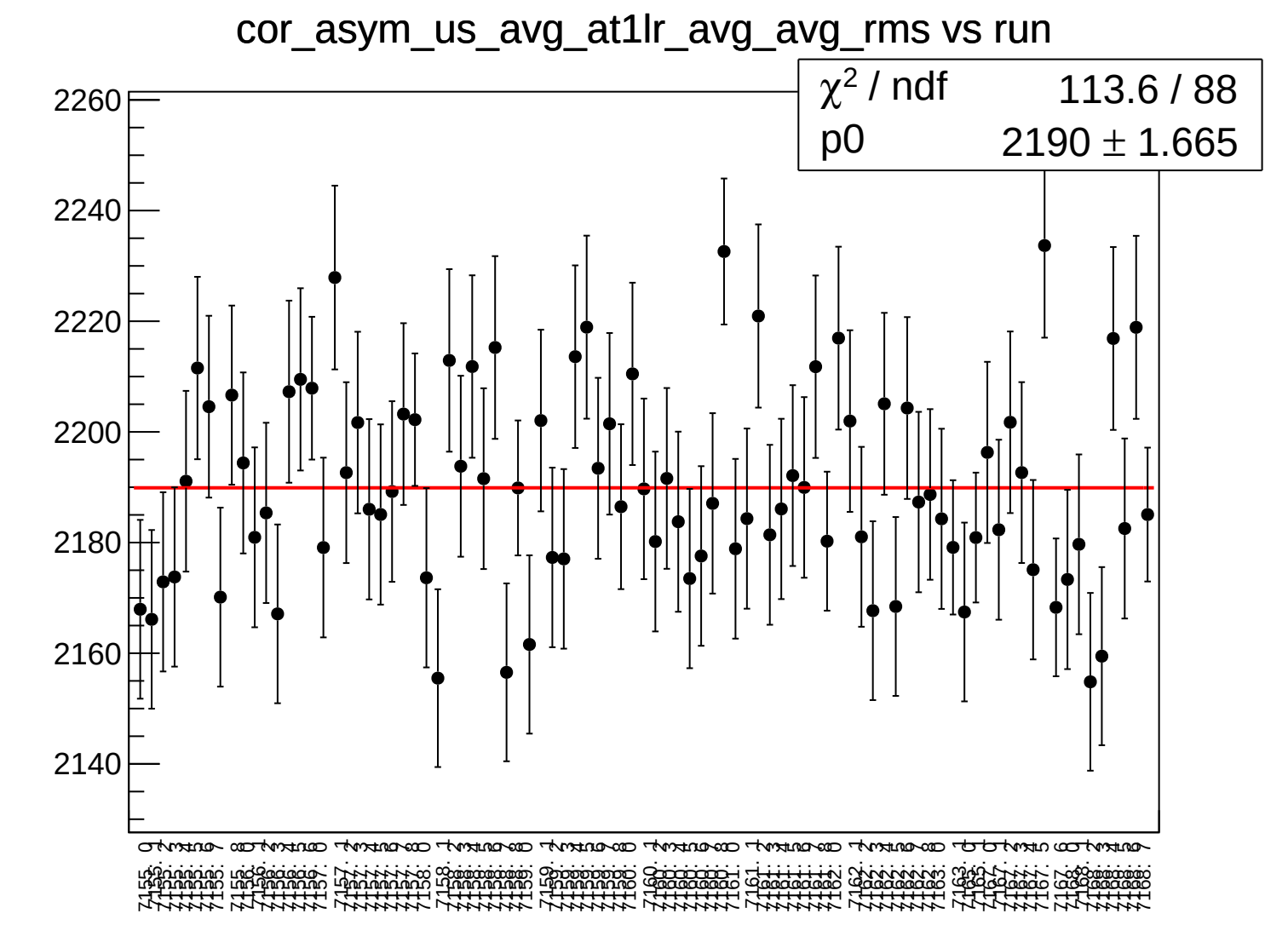

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 113.6 / 88
p0 2190 ± 1.665
2260
2240
2220
2200
2180
2160
2140

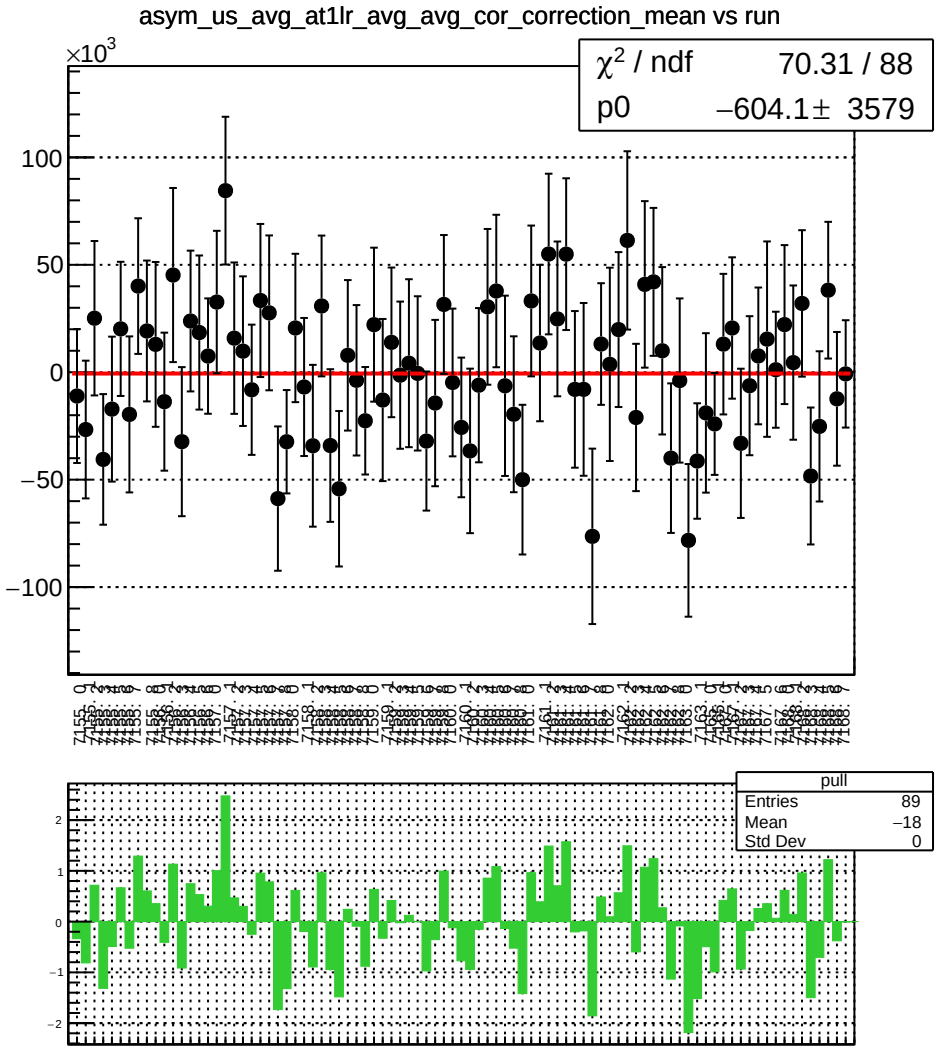

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 70.31 / 88
p0 −604.1± 3579
100
50
0
−50
−100
pull
Entries 89
Mean −18.02
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02266
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

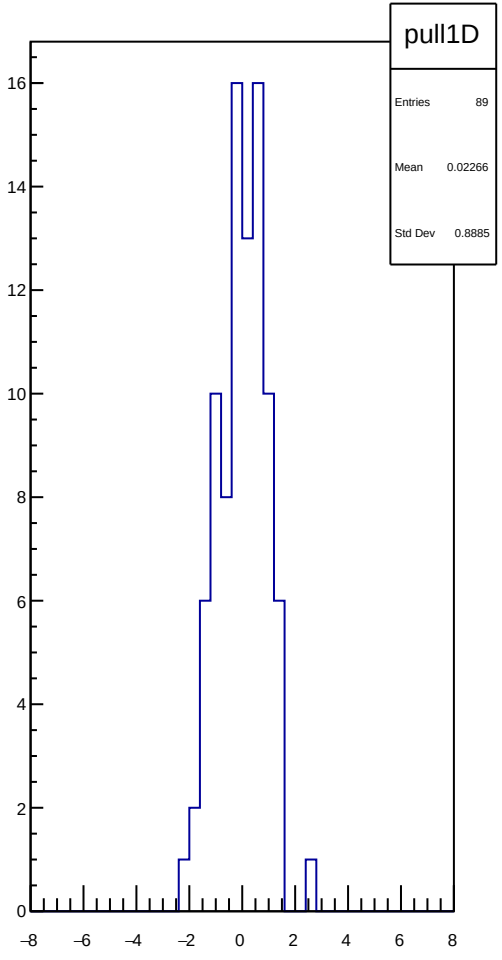

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.119e+04 / 88
p0 3318 ± 2.531
4400
4200
4000
3800
3600
3400
3200
3000
2800

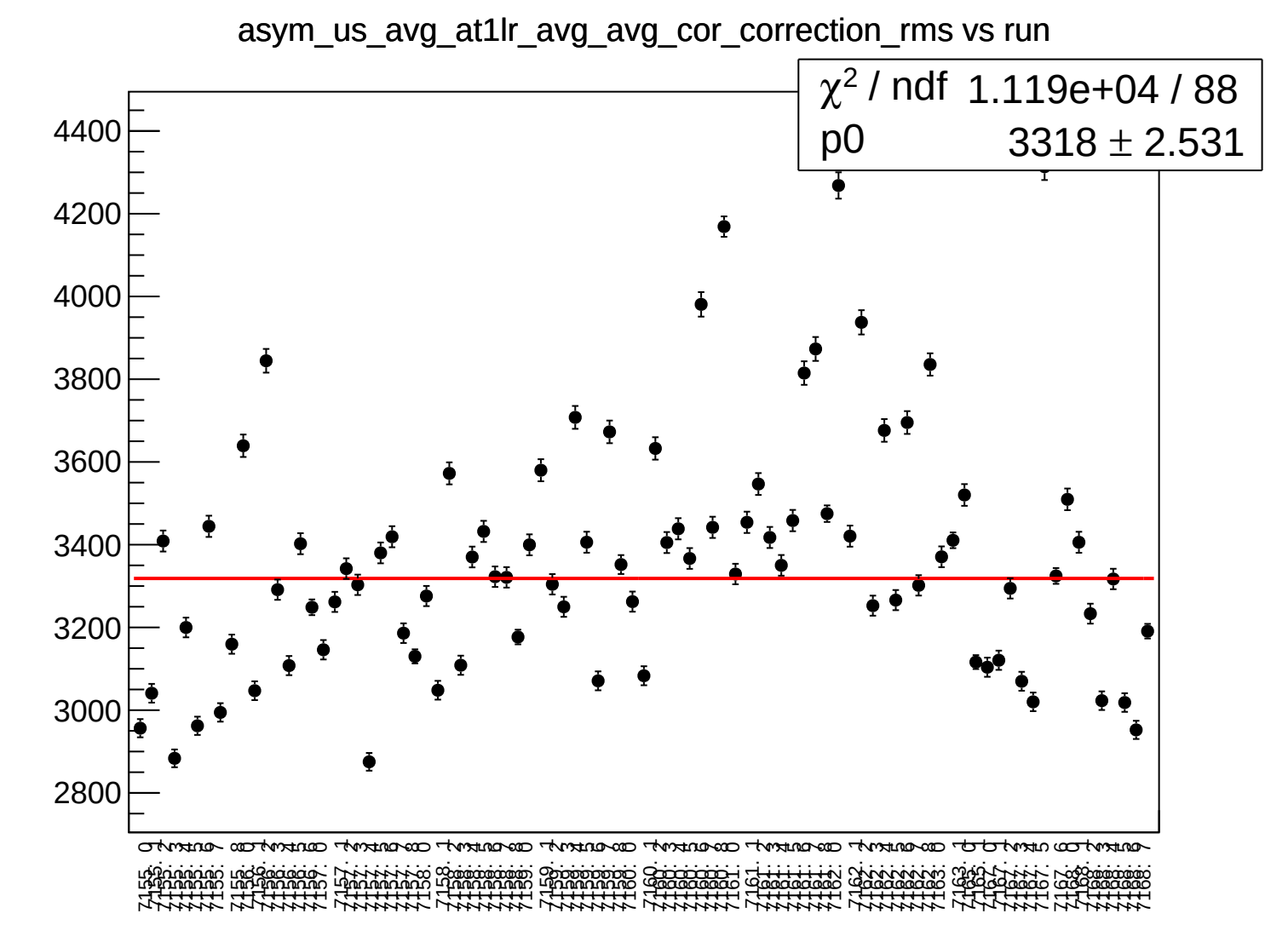

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 103.2 / 88
p0 −4655 ± 2355
pull
Entries 89
Mean 1.259e+04
Std Dev 0
3
2
1
0
−1
−2
−3

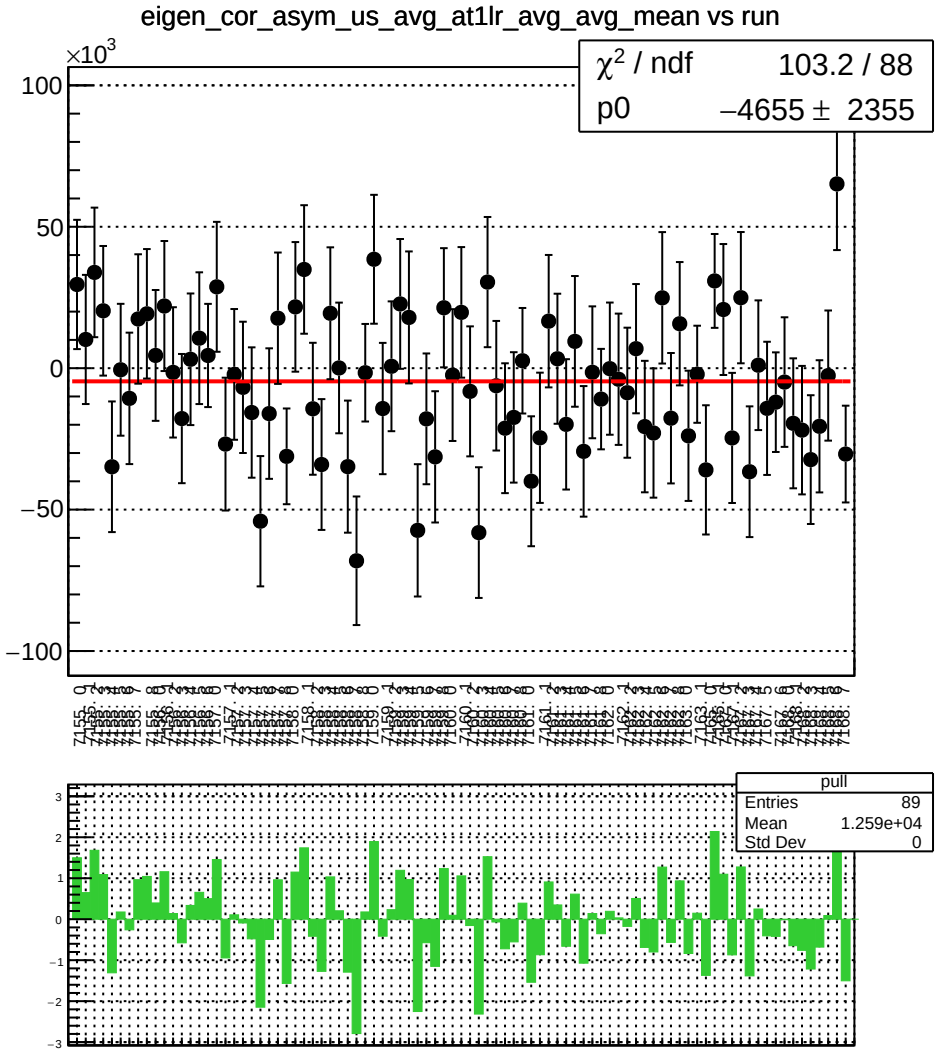

pull1D
Entries 89
Mean −0.0003118
Std Dev 1.077
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

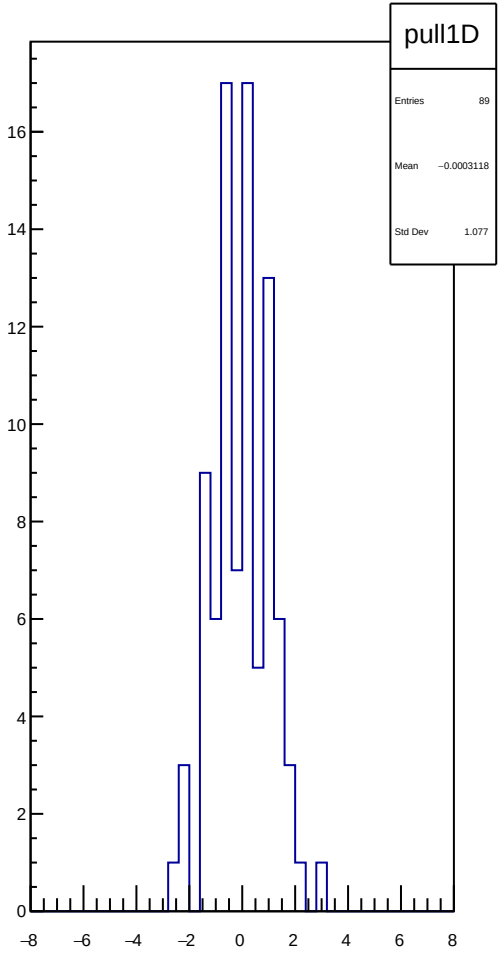

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 113.6 / 88
p0 2190 ± 1.665
2260
2240
2220
2200
2180
2160
2140

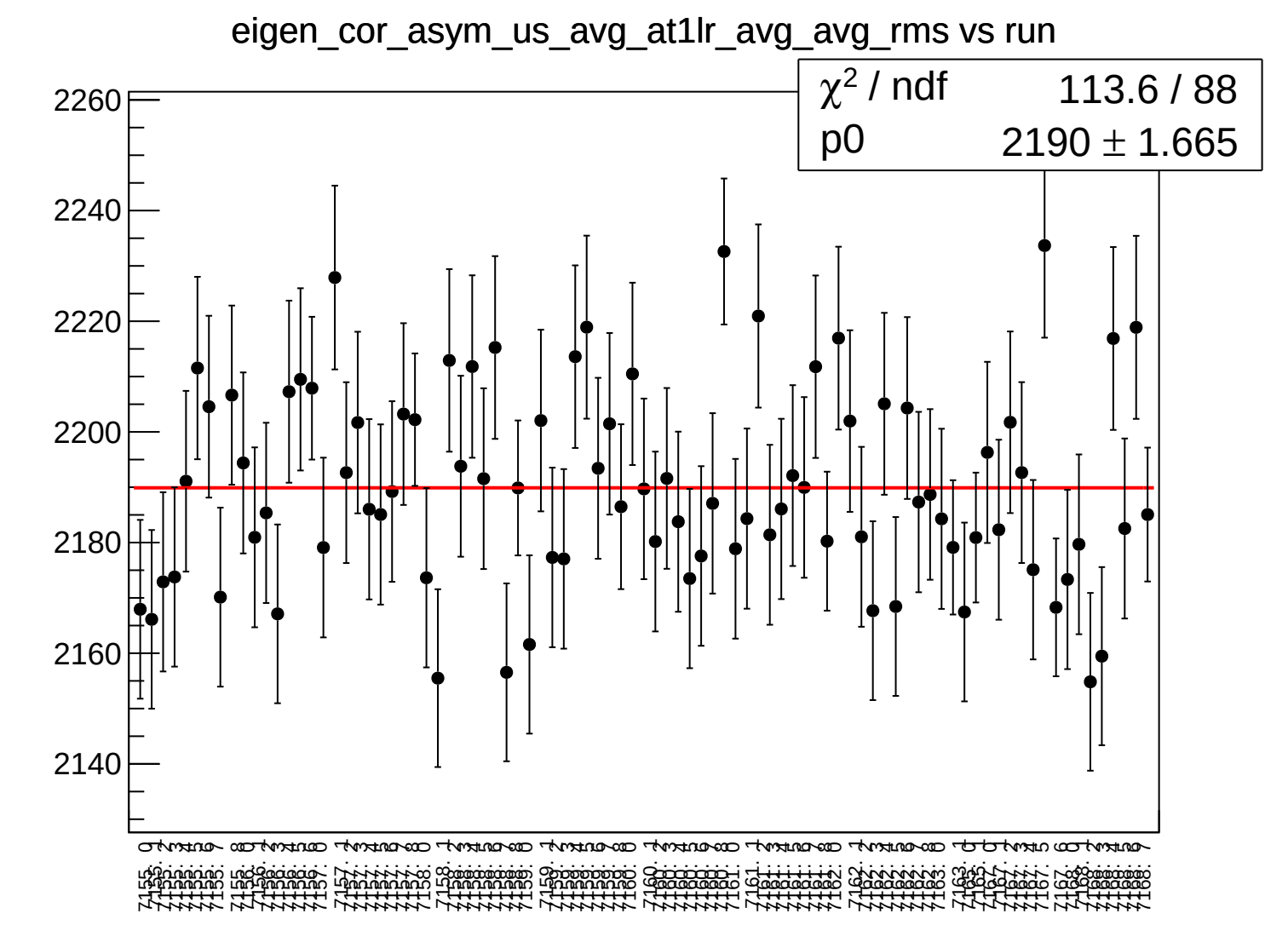

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 70.31 / 88
p0 −604.1± 3579
100
50
0
−50
−100
pull
Entries 89
Mean −18
Std Dev 0
2
1
0
−1
−2

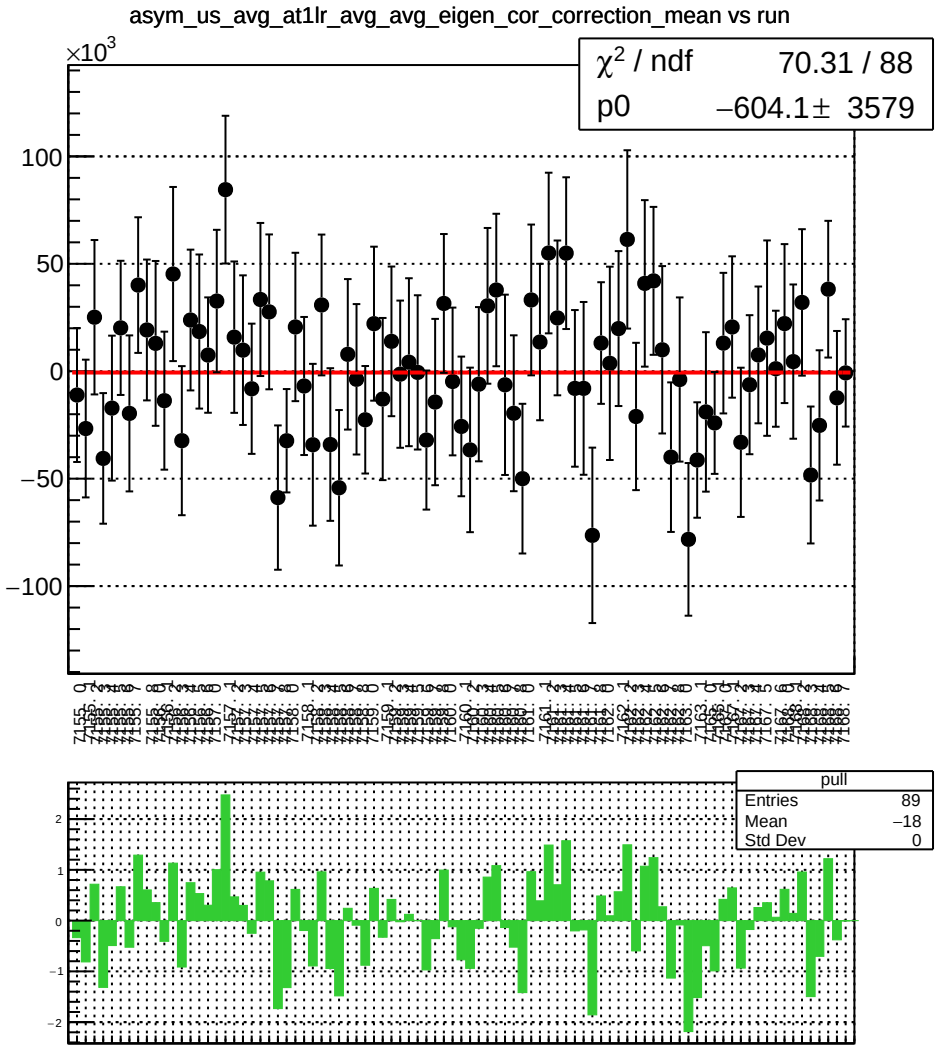

pull1D
Entries 89
Mean 0.02266
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

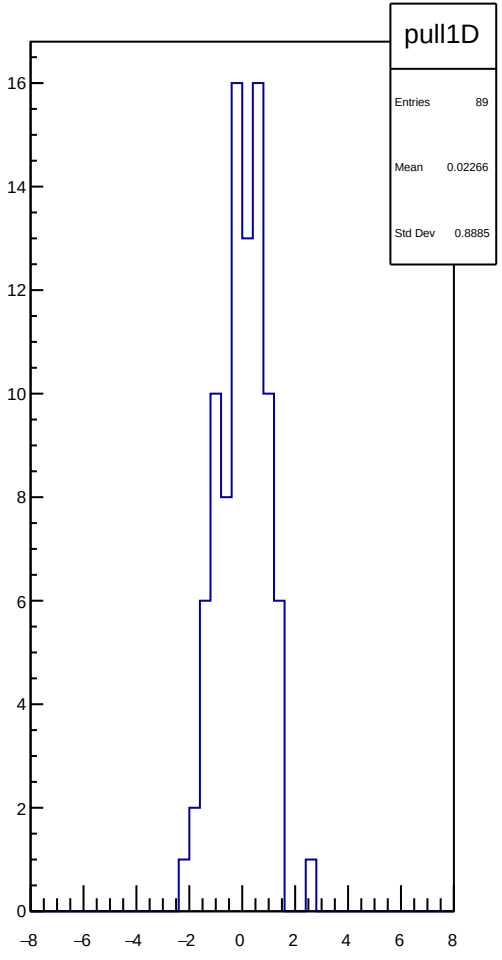

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 88
p0 3318 ± 2.531
4400
4200
4000
3800
3600
3400
3200
3000
2800

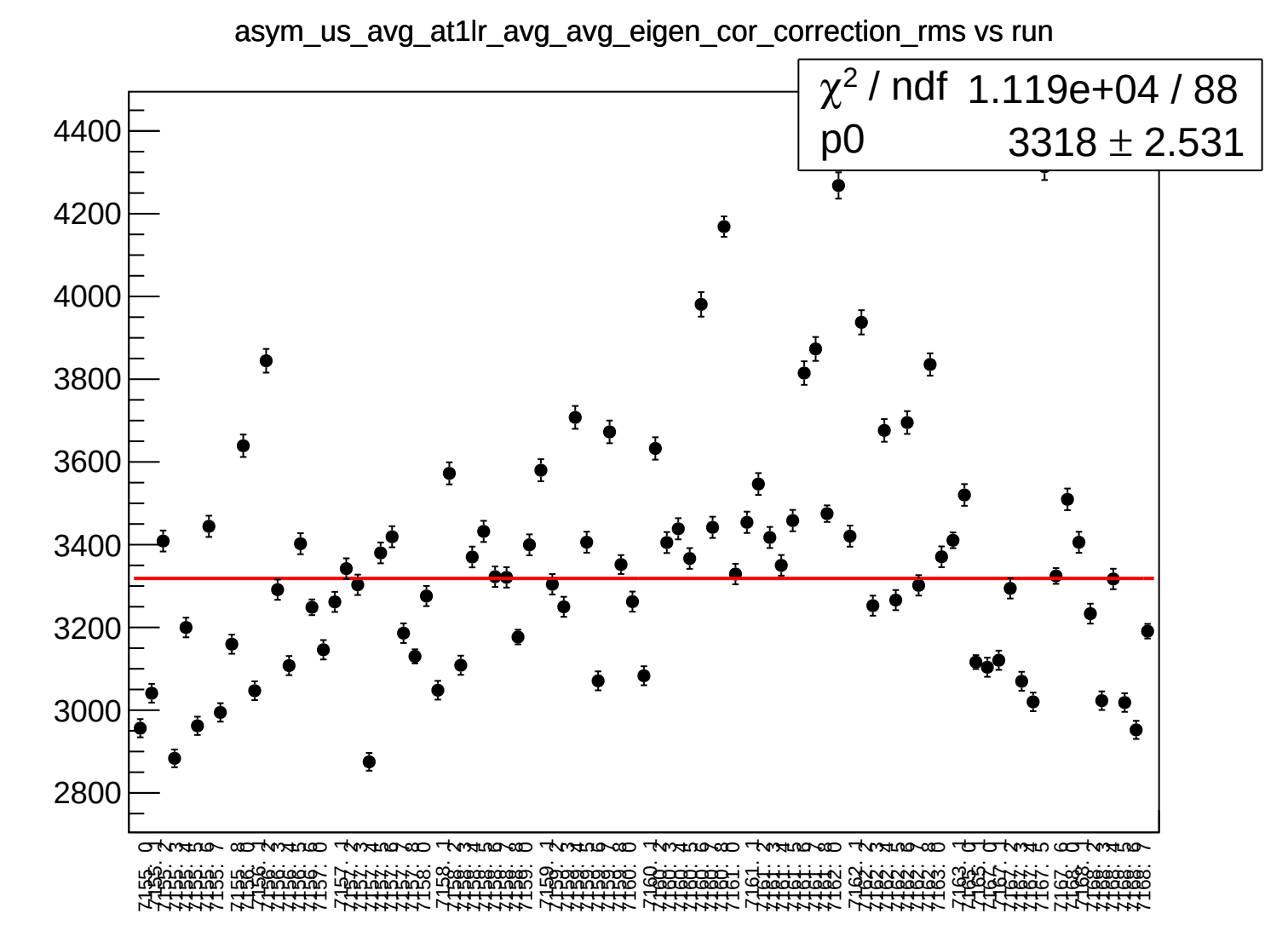

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.2 / 88
p0 −4655 ± 2355
pull
Entries 89
Mean 1.259e+04
Std Dev 0

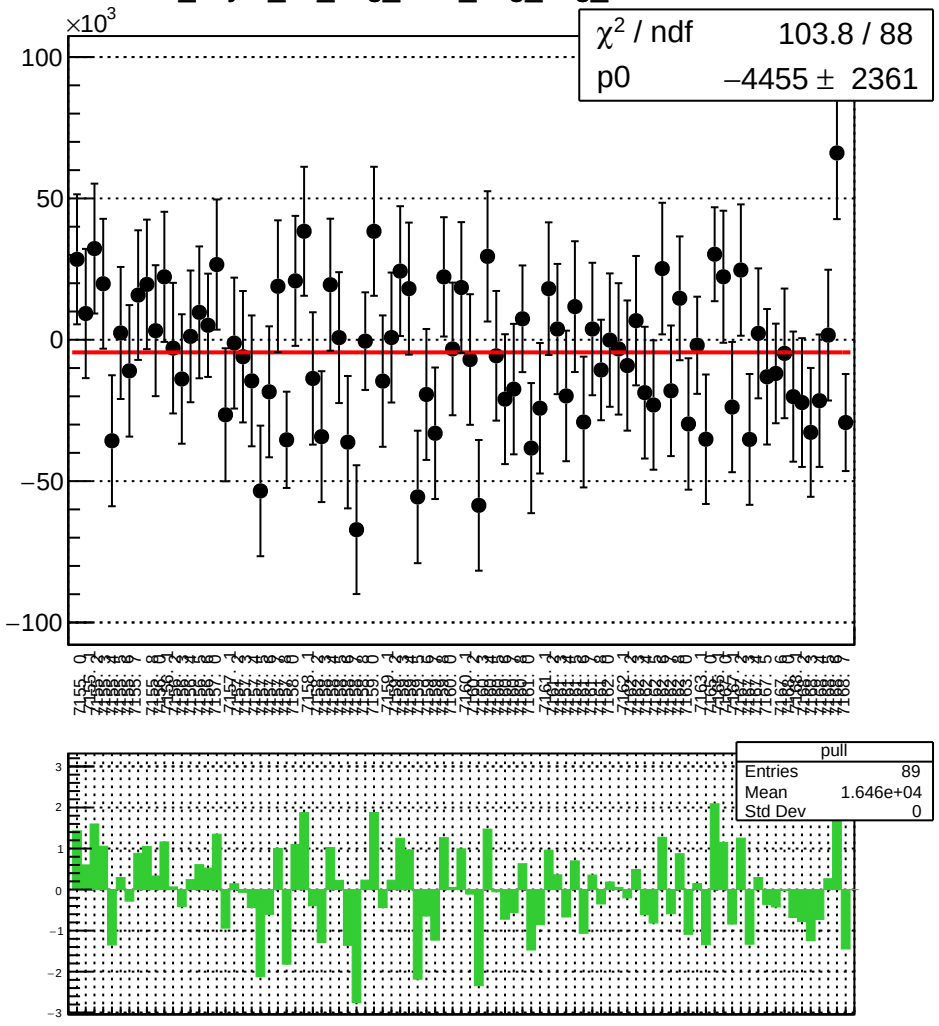

pull1D
Entries 89
Mean −0.0003118
Std Dev 1.077

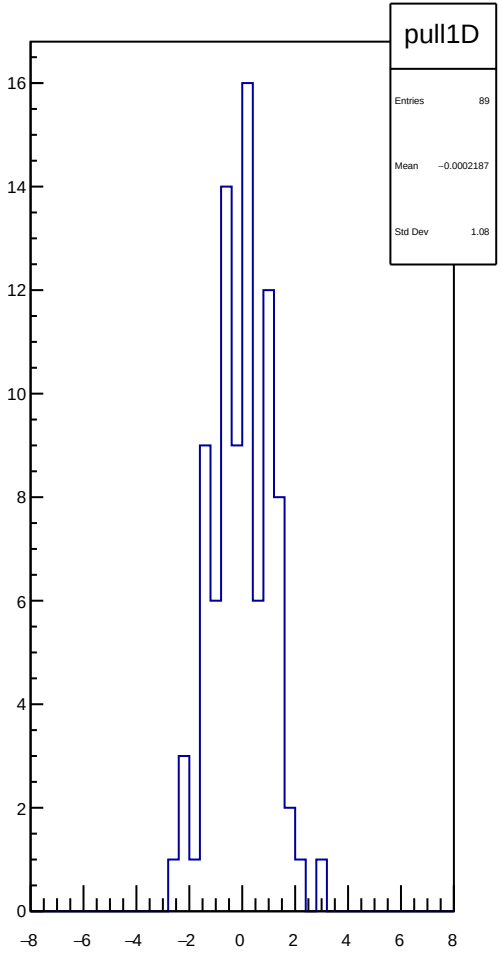

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 113.6 / 88
p0 2190 ± 1.665
2260
2240
2220
2200
2180
2160
2140

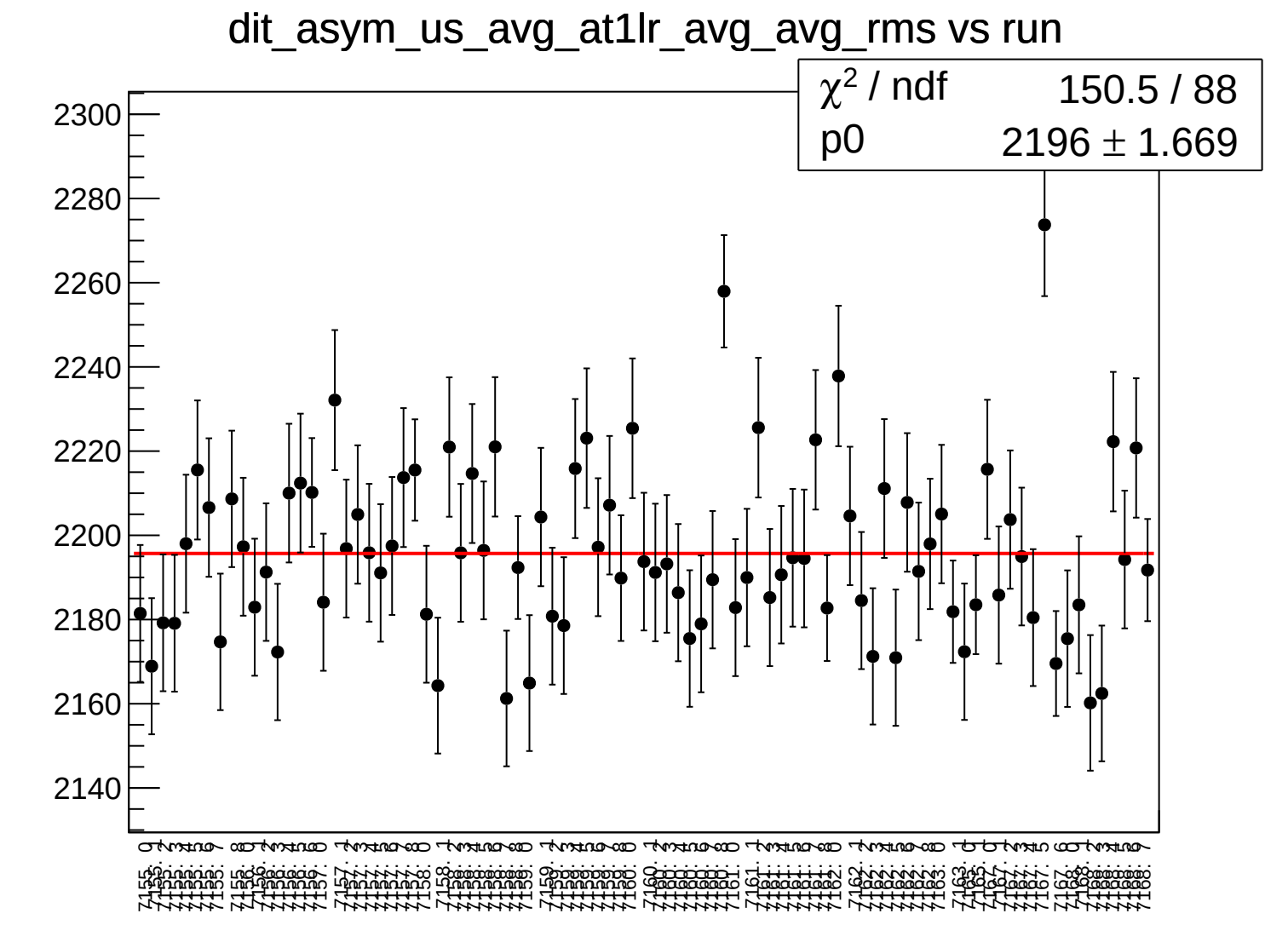

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.31 / 88
p0 −604.1± 3579
100
50
0
−50
−100
pull
Entries 89
Mean −18
Std Dev 0
2
1
0
−1
−2

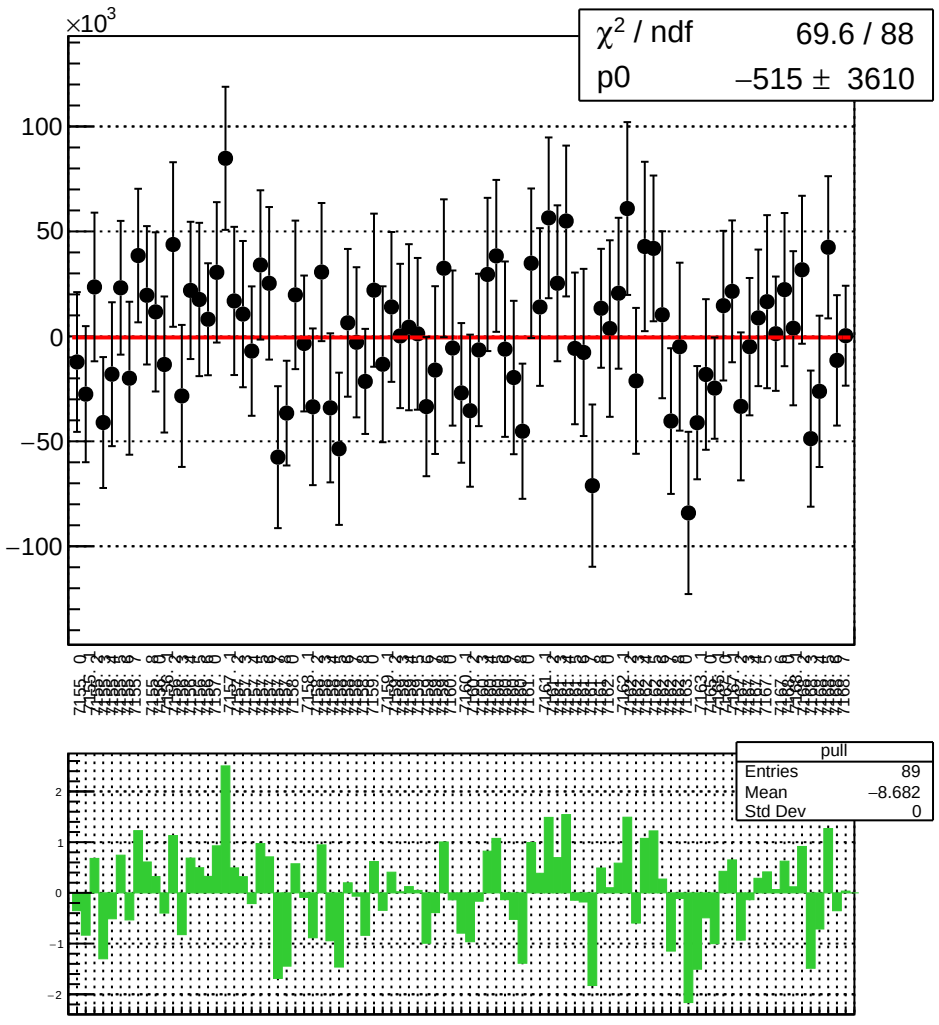

pull1D
Entries 89
Mean 0.02266
Std Dev 0.8885
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

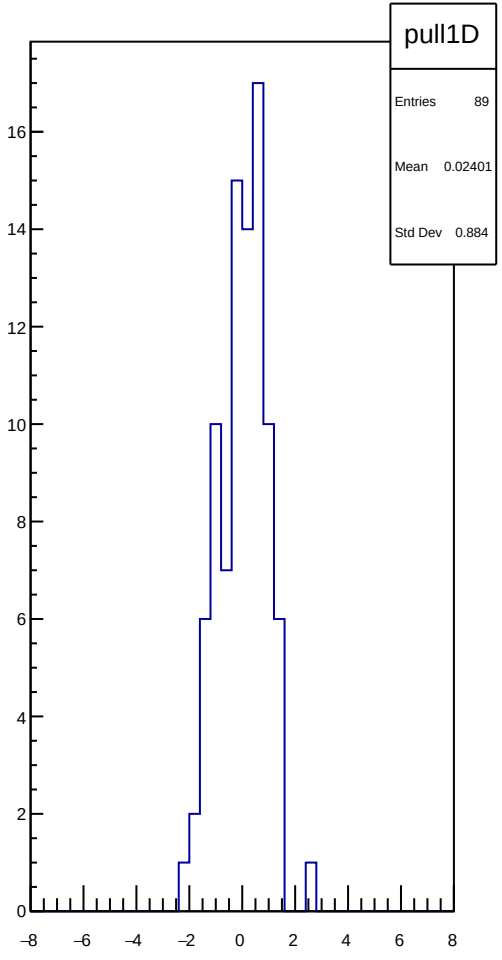

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.119e+04 / 88
p0 3318 ± 2.531
4400
4200
4000
3800
3600
3400
3200
3000
2800

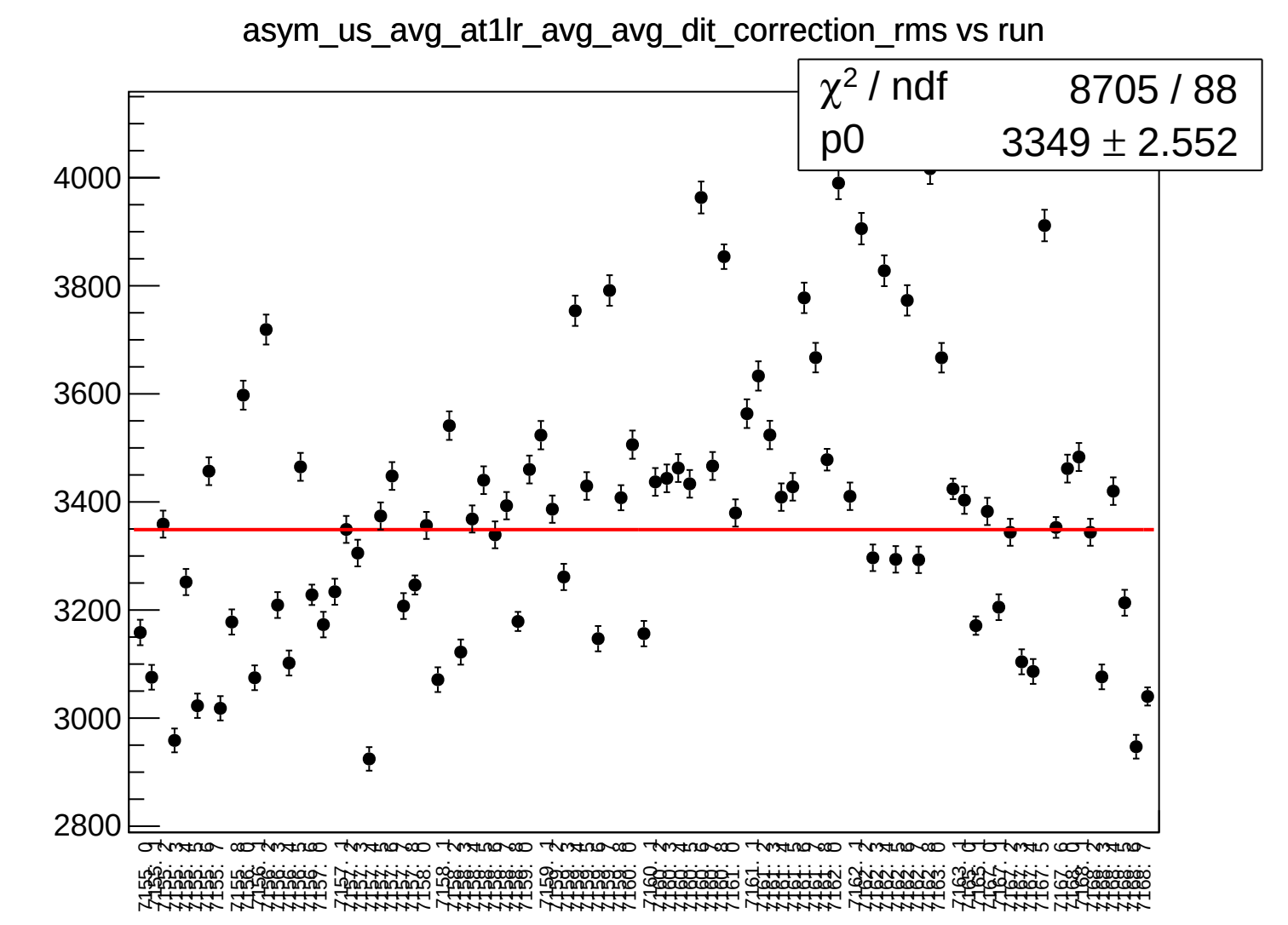

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 103.8 / 88
p0 −4455 ± 2361
pull
Entries 89
Mean 1.646e+04
Std Dev 0
3
2
1
0
−1
−2
−3

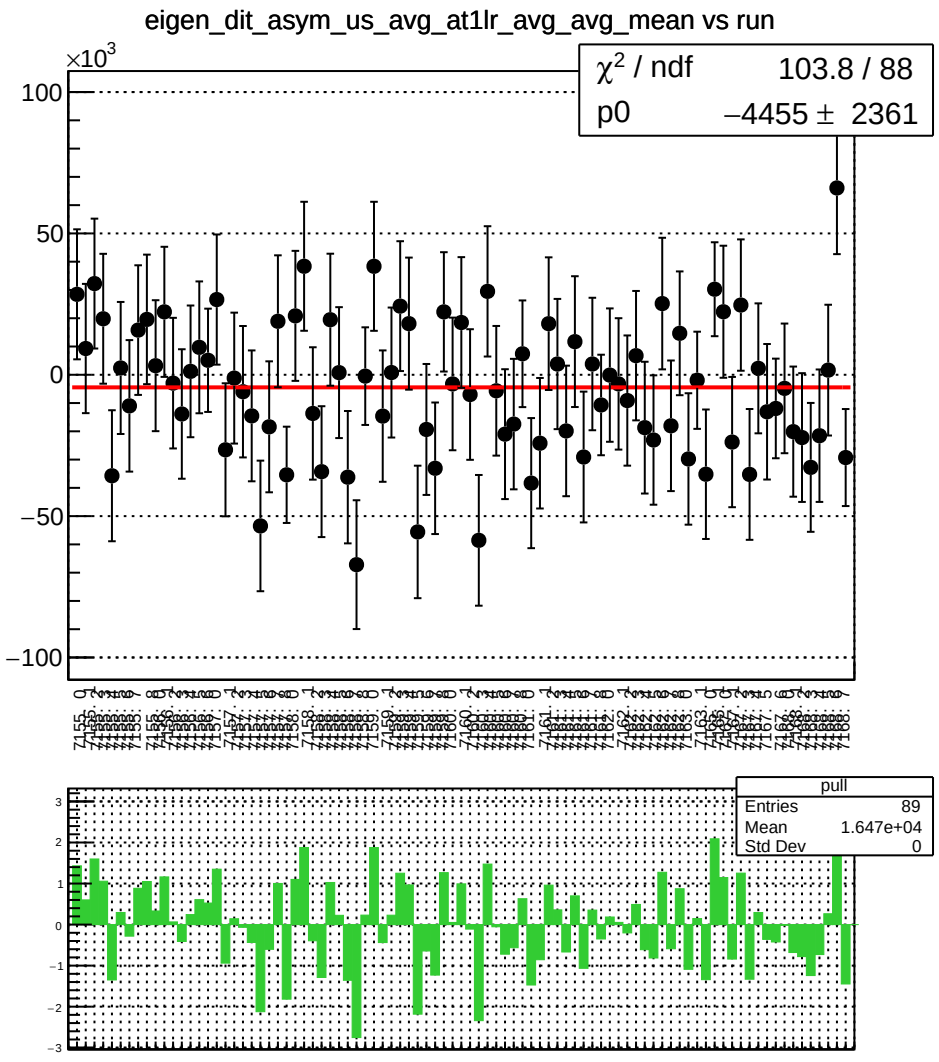

pull1D
Entries 89
Mean −0.0002187
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

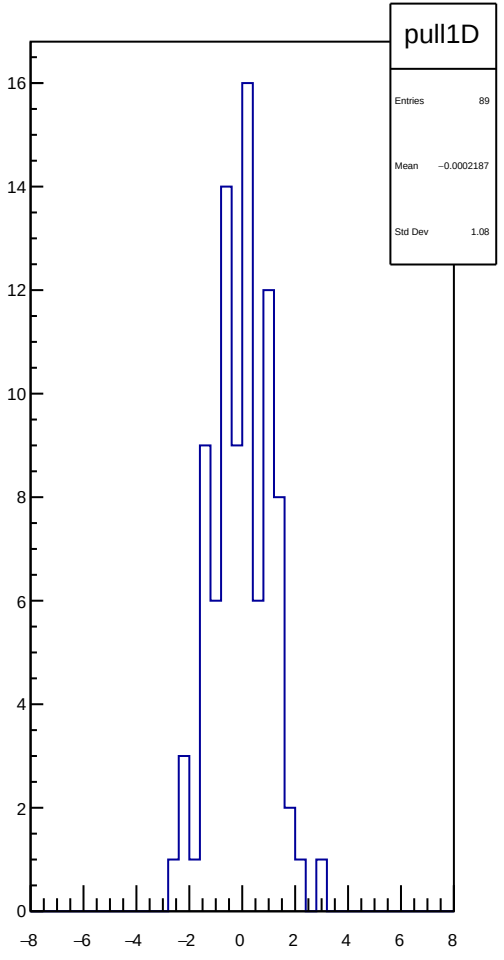

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 150.5 / 88
p0 2196 ± 1.669
2300
2280
2260
2240
2220
2200
2180
2160
2140

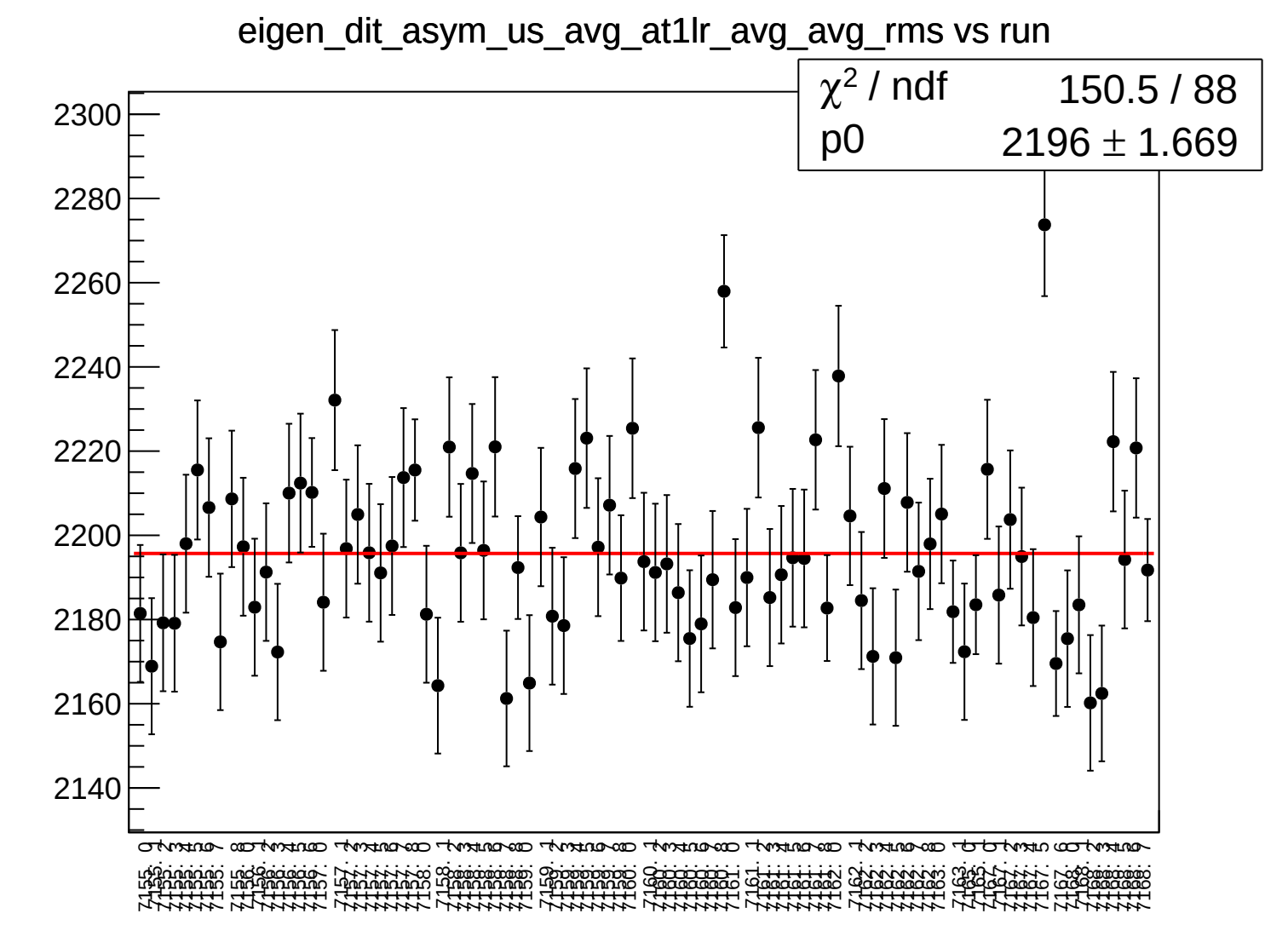

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 69.6 / 88
p0 −515 ± 3610
100
50
0
−50
−100
pull
Entries 89
Mean −8.682
Std Dev 0
2
1
0
−1
−2

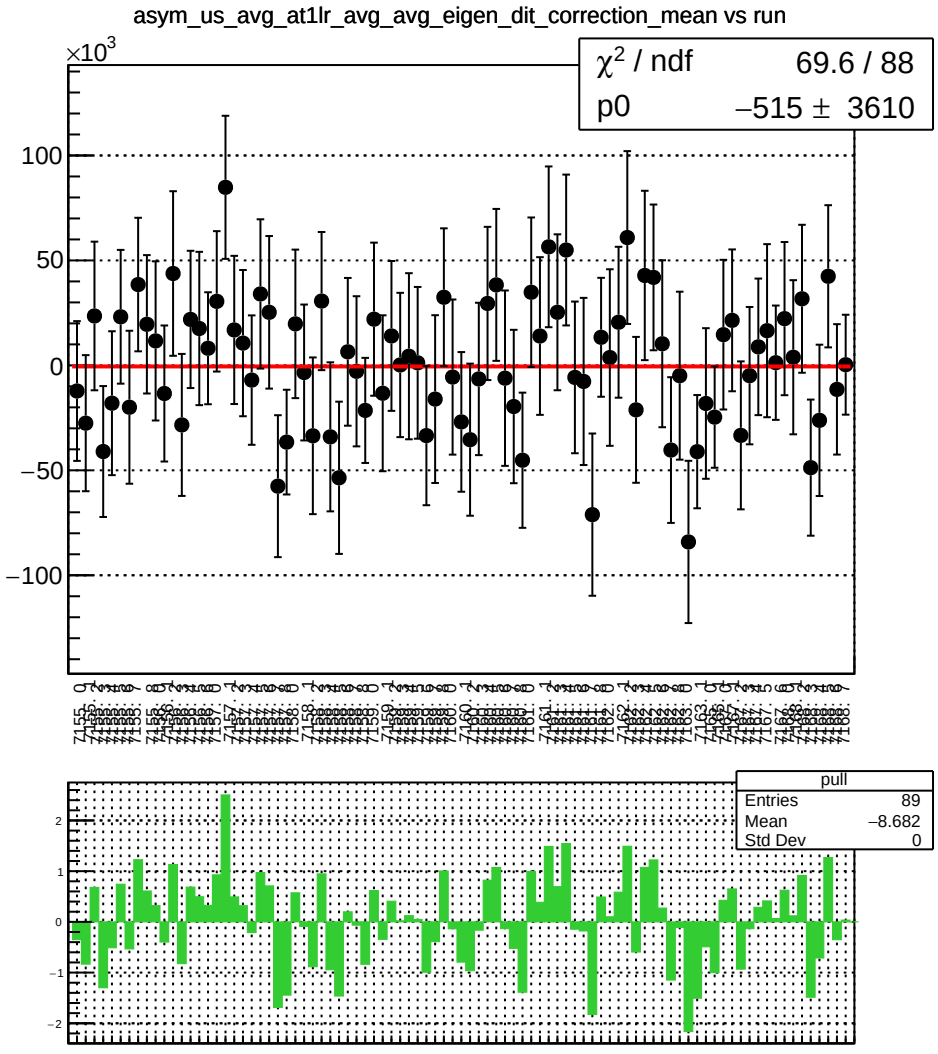

pull1D
Entries 89
Mean 0.02401
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

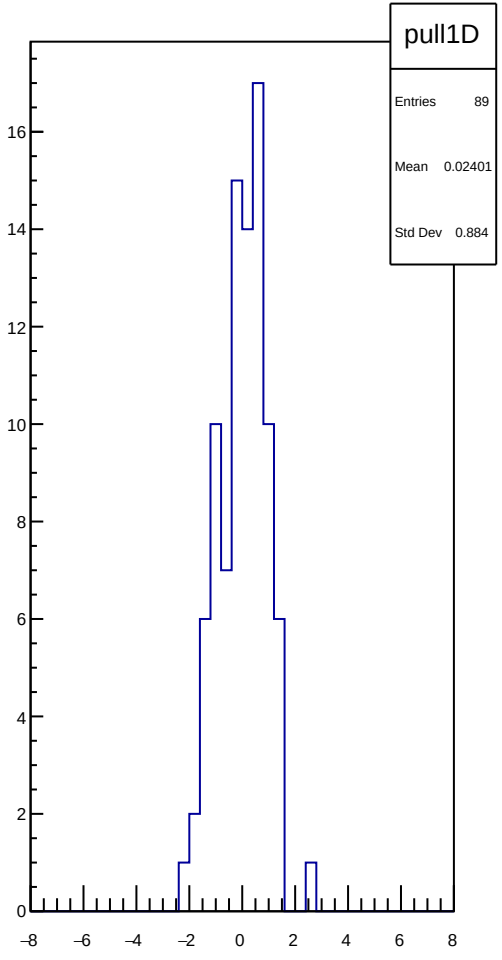

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8705 / 88
p0 3349 ± 2.552
4000
3800
3600
3400
3200
3000
2800

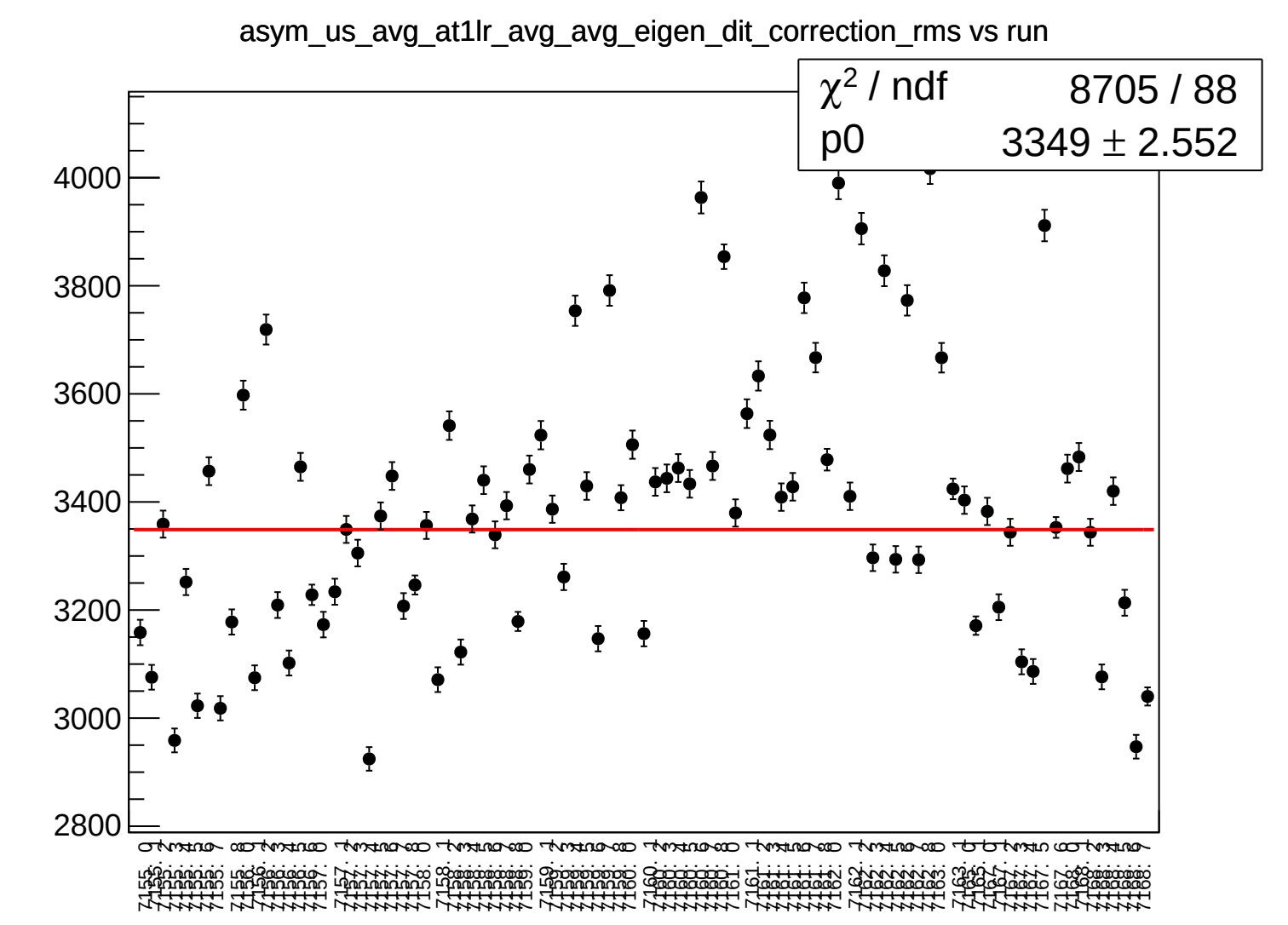

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 103.8 / 88
p0 −4455 ± 2361
100
50
0
−50
−100
pull
Entries 89
Mean 1.647e+04
Std Dev 0
3
2
1
0
−1
−2
−3

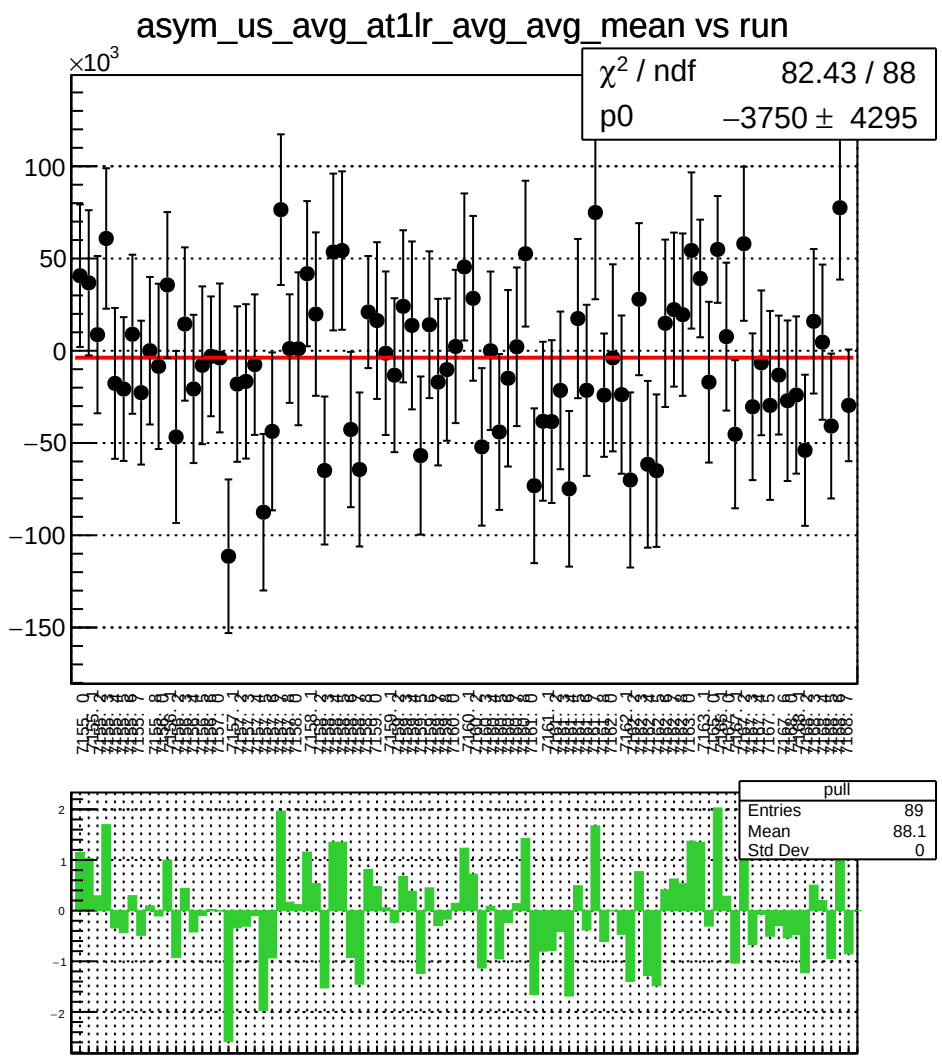

pull1D
Entries 89
Mean −0.0002187
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

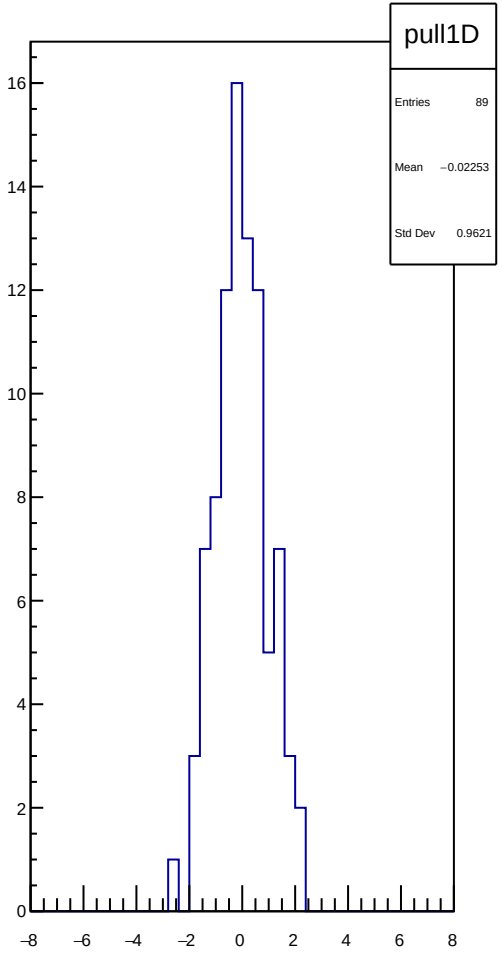

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ^2 / ndf 150.5 / 88
p0 2196 ± 1.669
2300
2280
2260
2240
2220
2200
2180
2160
2140

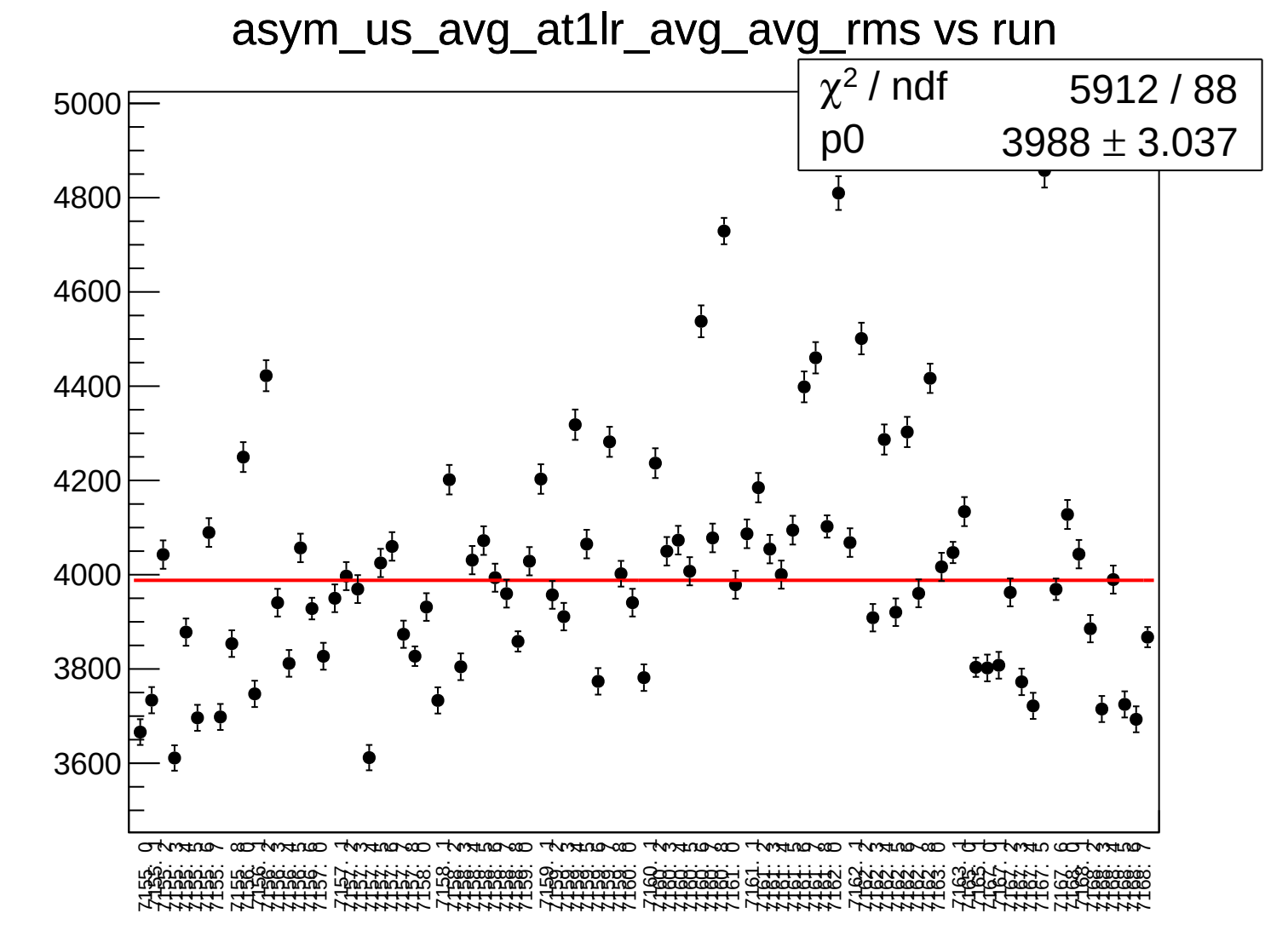

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.6 / 88
p0 −515 ± 3610
100
50
0
−50
−100
pull
Entries 89
Mean −8.682
Std Dev 0
2
1
0
−1
−2

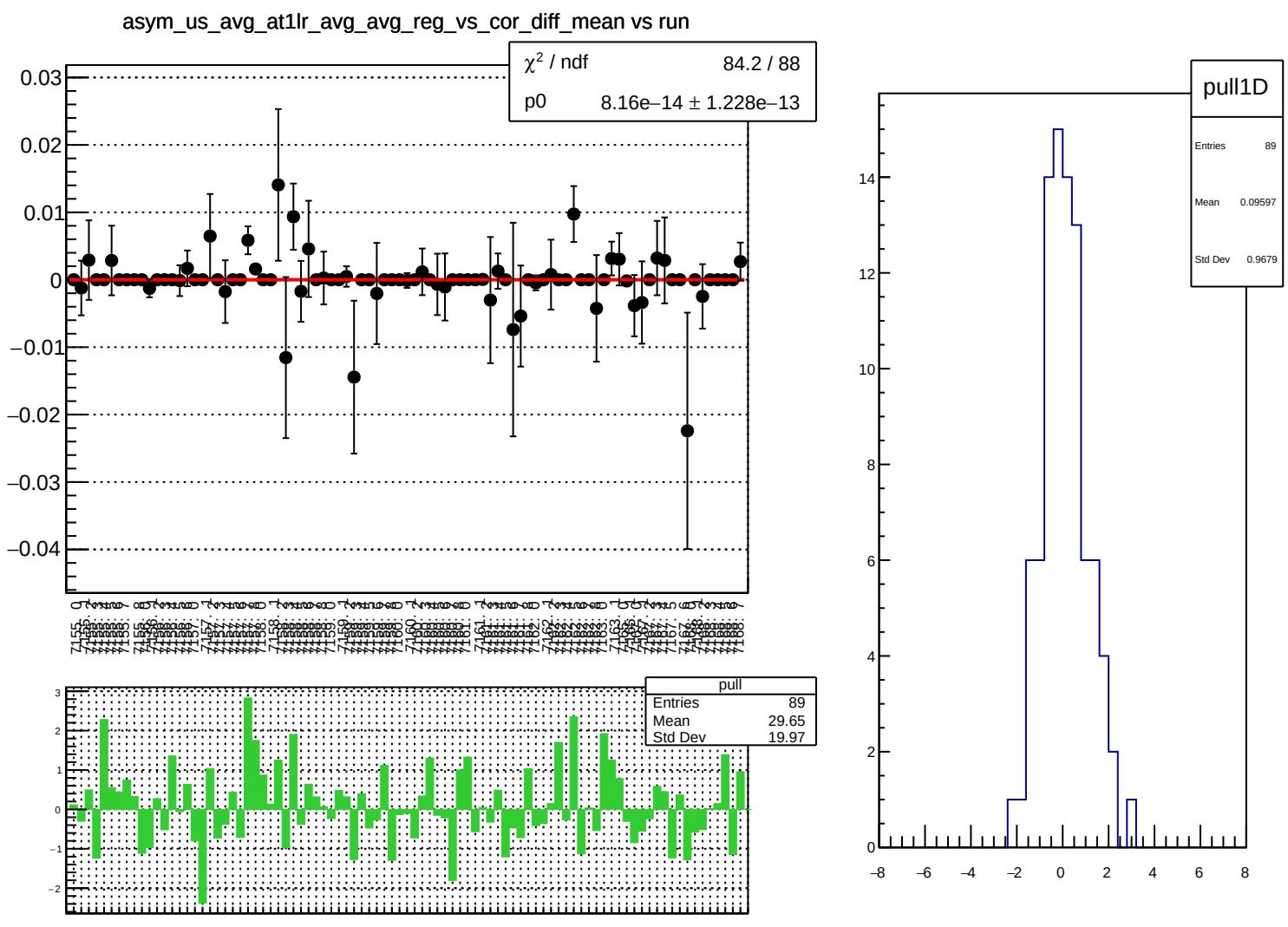

pull1D
Entries 89
Mean 0.02401
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

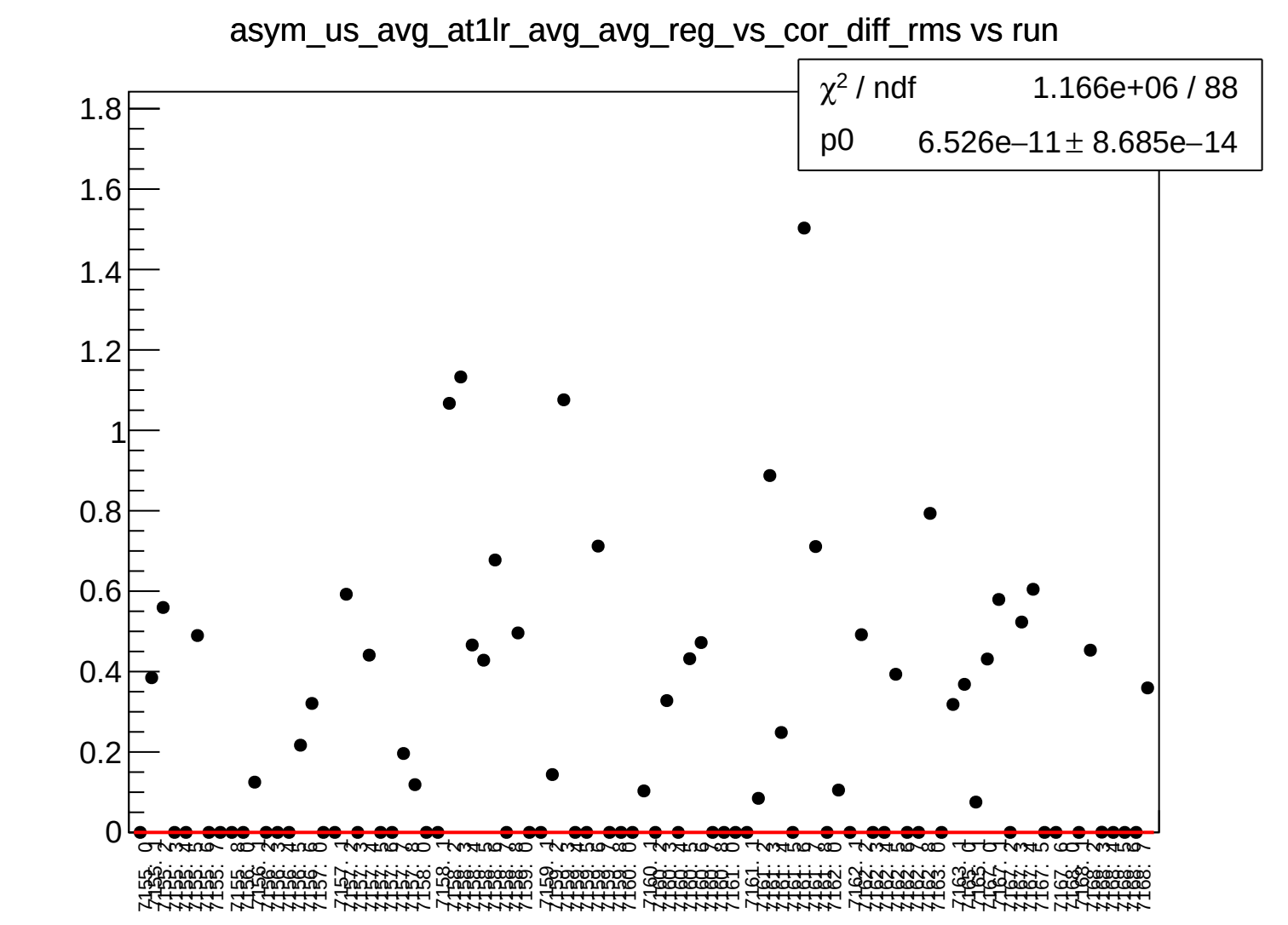

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8705 / 88
p0 3349 ± 2.552
4000
3800
3600
3400
3200
3000
2800

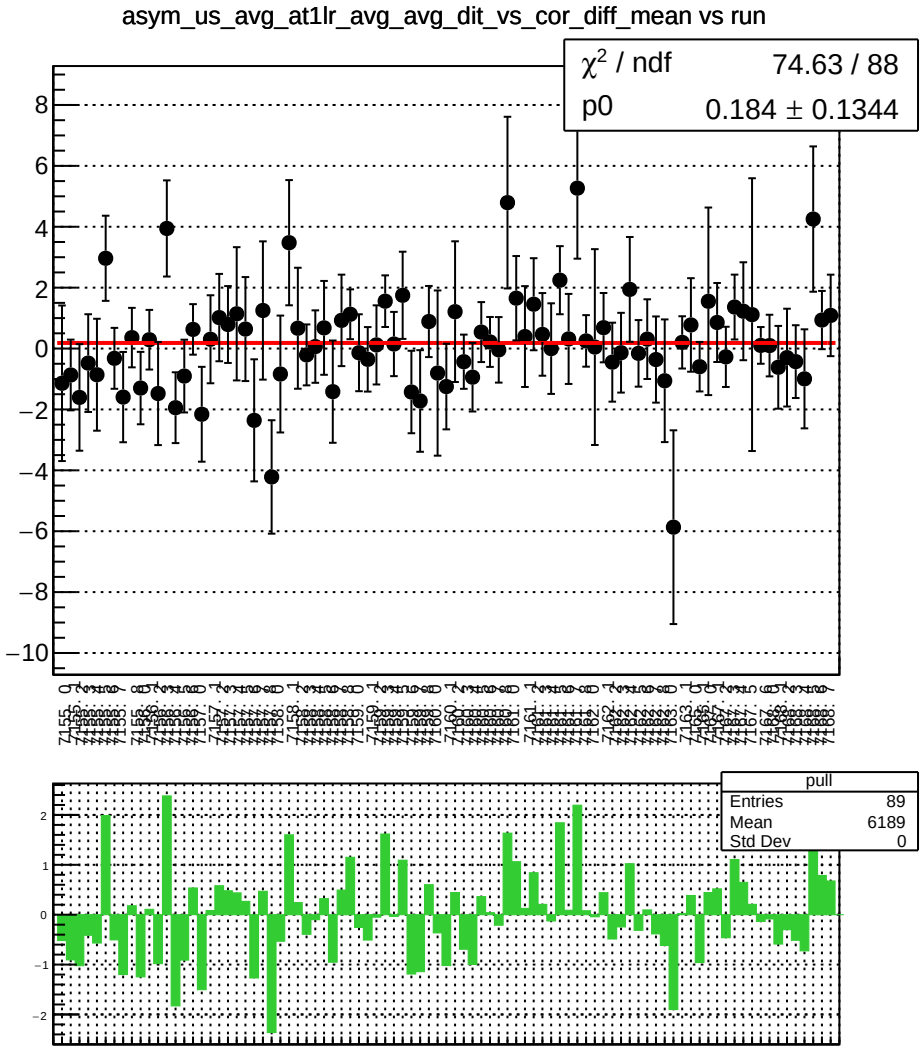

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ² / ndf 82.43 / 88
p0 −3750 ± 4295
100
50
0
−50
−100
−150
pull
Entries 89
Mean 88.1
Std Dev 0
2
1
0
−1
−2

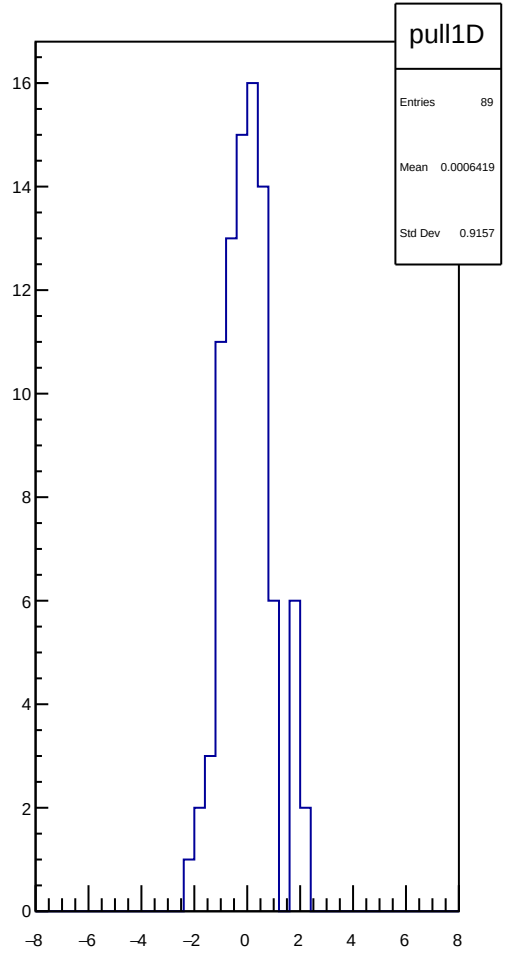

pull1D
Entries 89
Mean −0.02253
Std Dev 0.9621
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

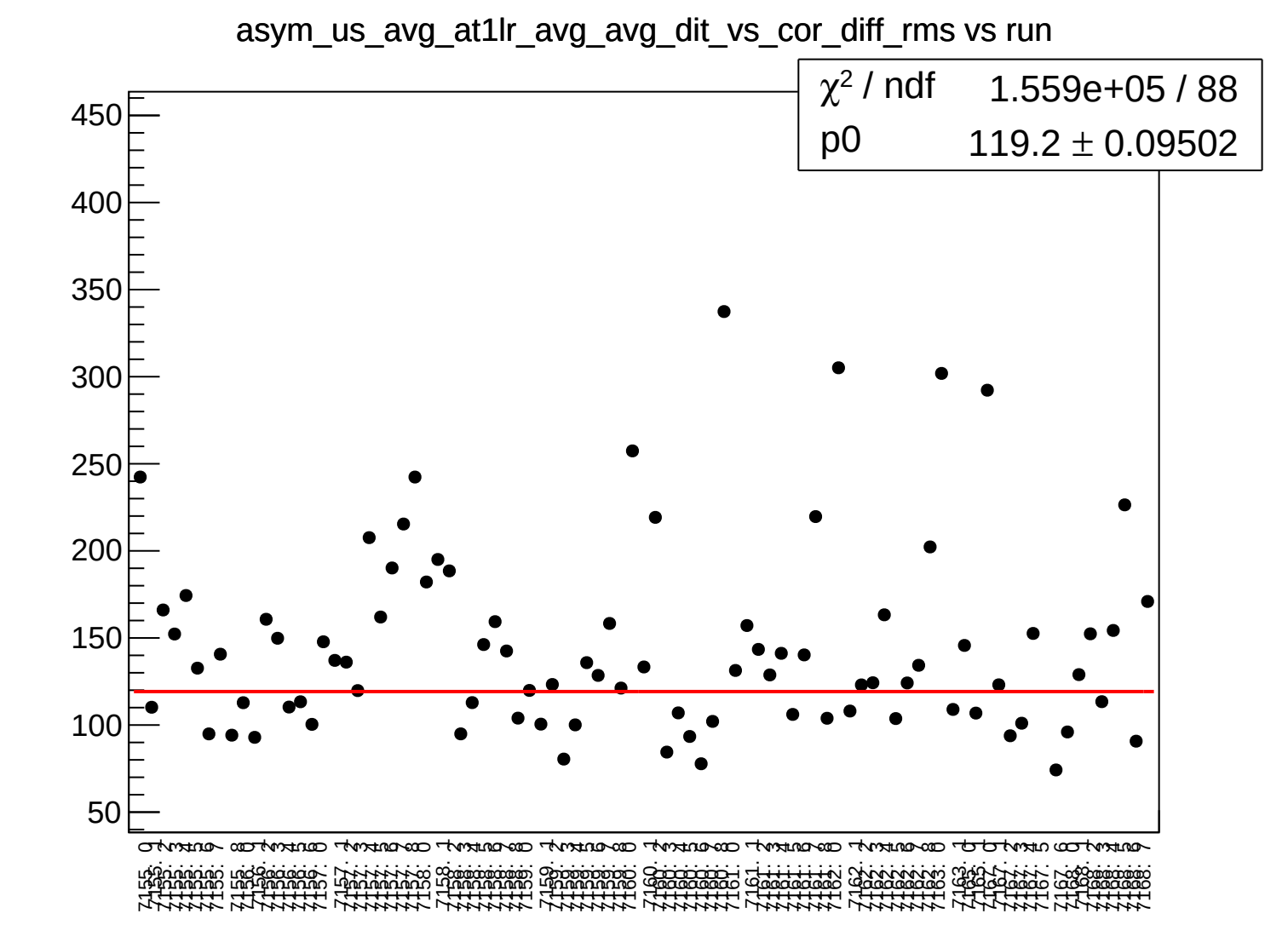

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 5912 / 88
p0 3988 ± 3.037
5000
4800
4600
4400
4200
4000
3800
3600

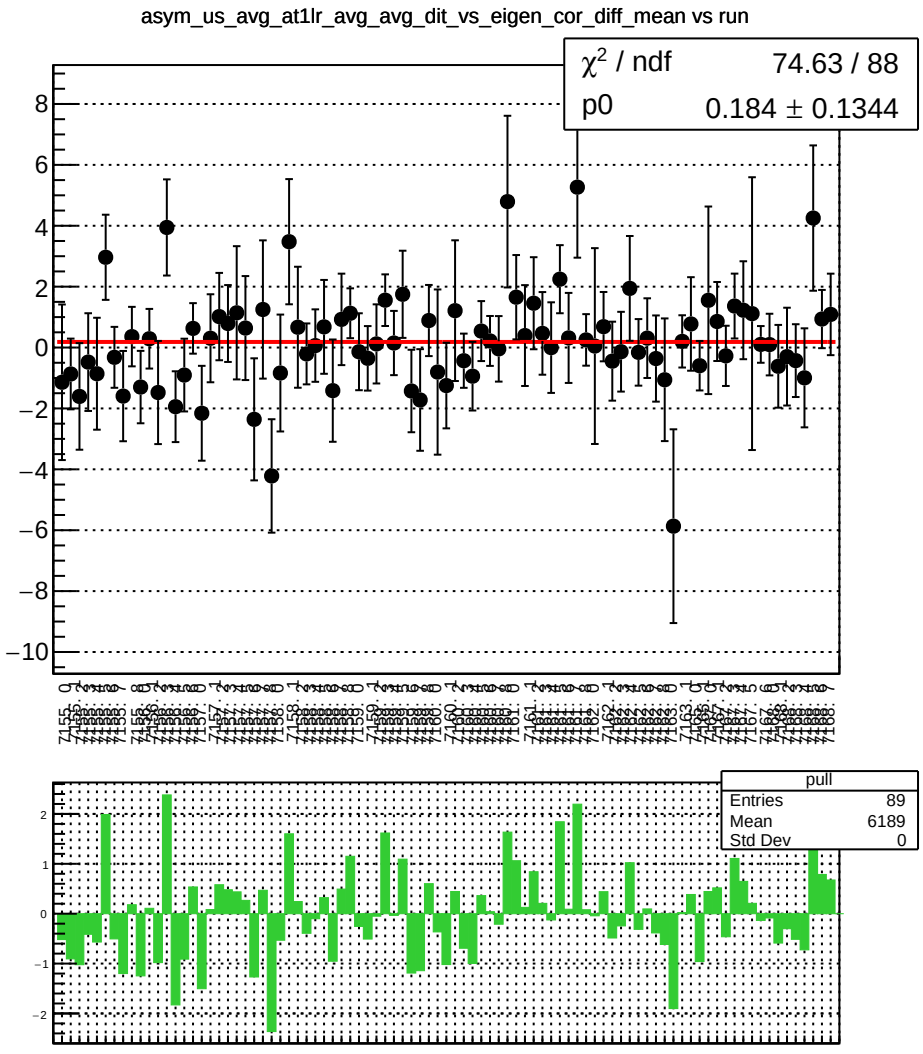

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 84.2 / 88
p0 8.16e−14 ± 1.228e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 89
Mean 29.65
Std Dev 19.97
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.09597
Std Dev 0.9679
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

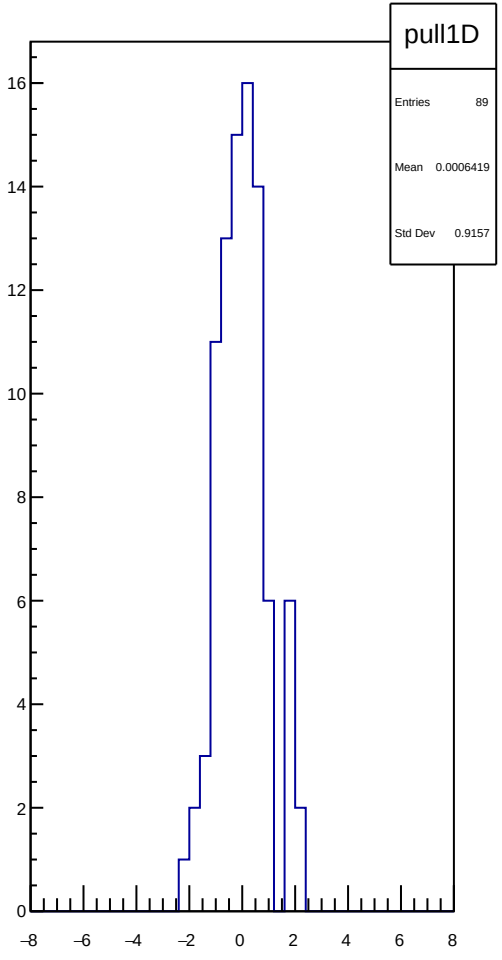

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.166e+06 / 88
p0 6.526e−11 ± 8.685e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

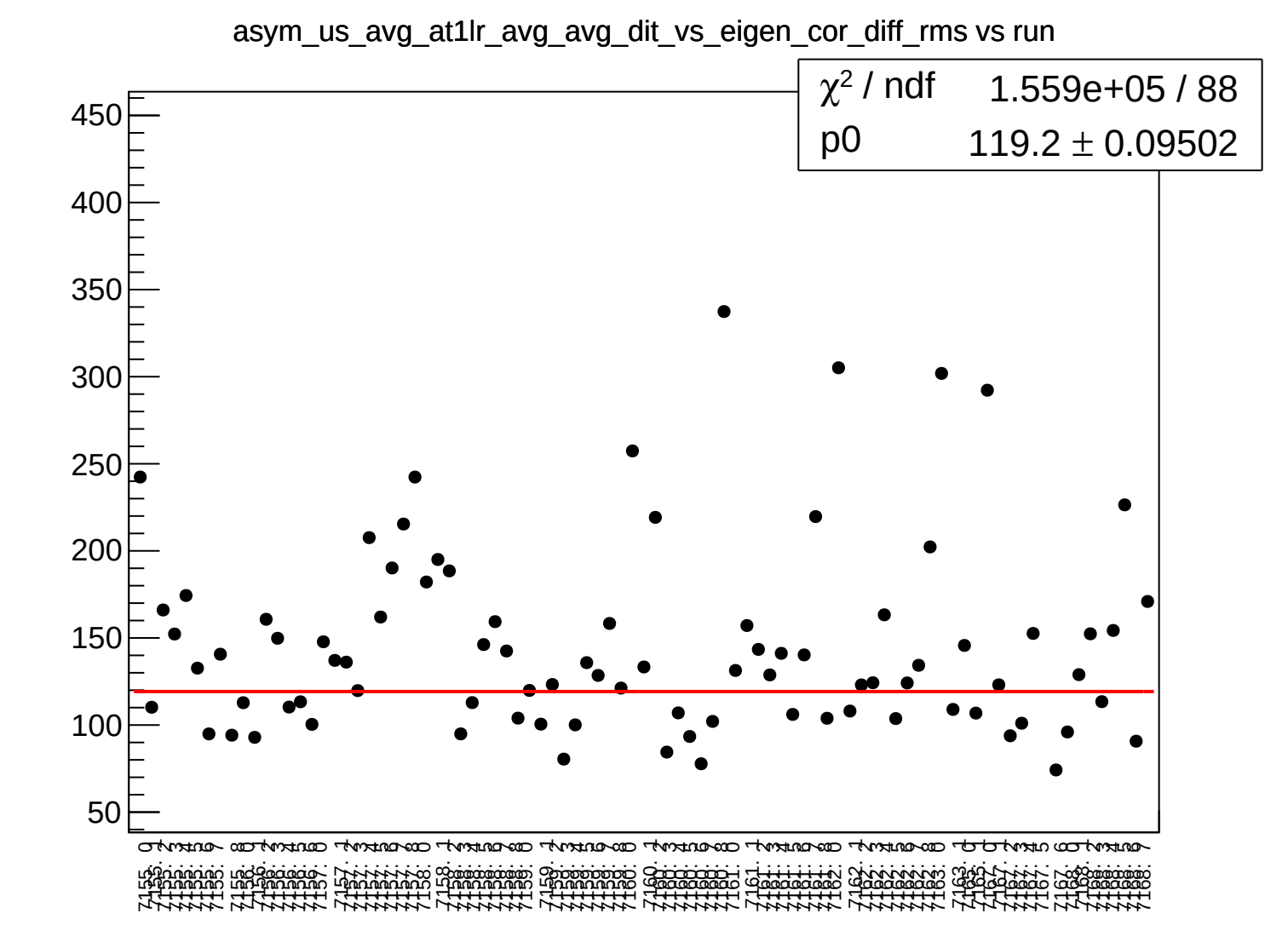

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 74.63 / 88
p0 0.184 ± 0.1344
pull
Entries 89
Mean 6189
Std Dev 0

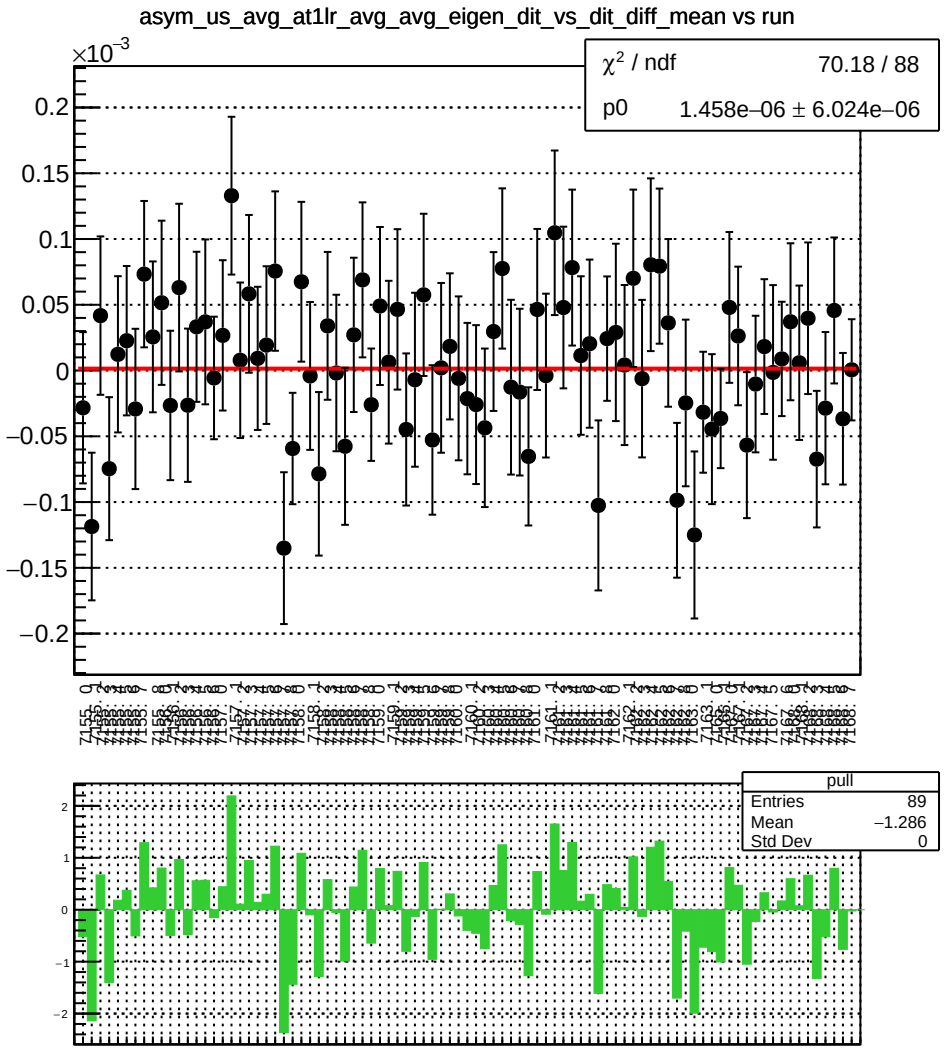

pull1D
Entries 89
Mean 0.0006419
Std Dev 0.9157

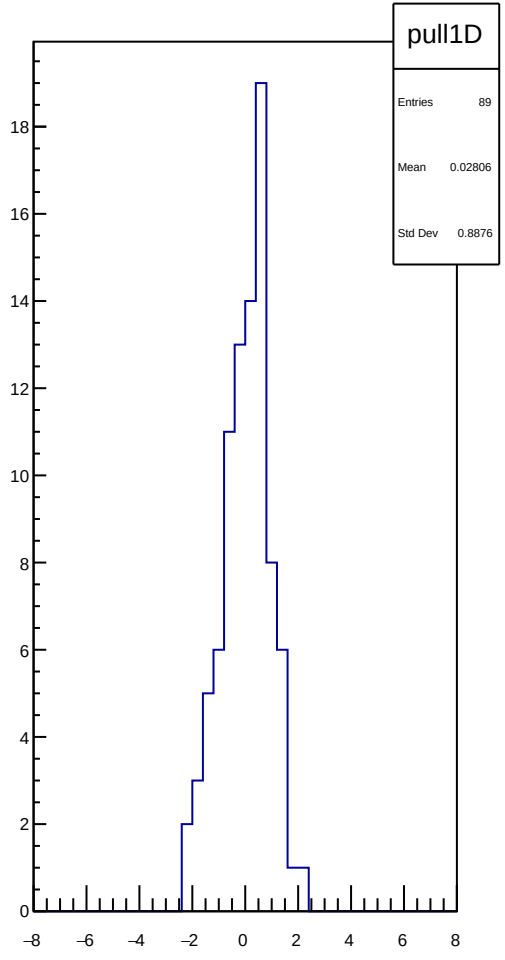

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 88
p0 119.2 ± 0.09502
450
400
350
300
250
200
150
100
50

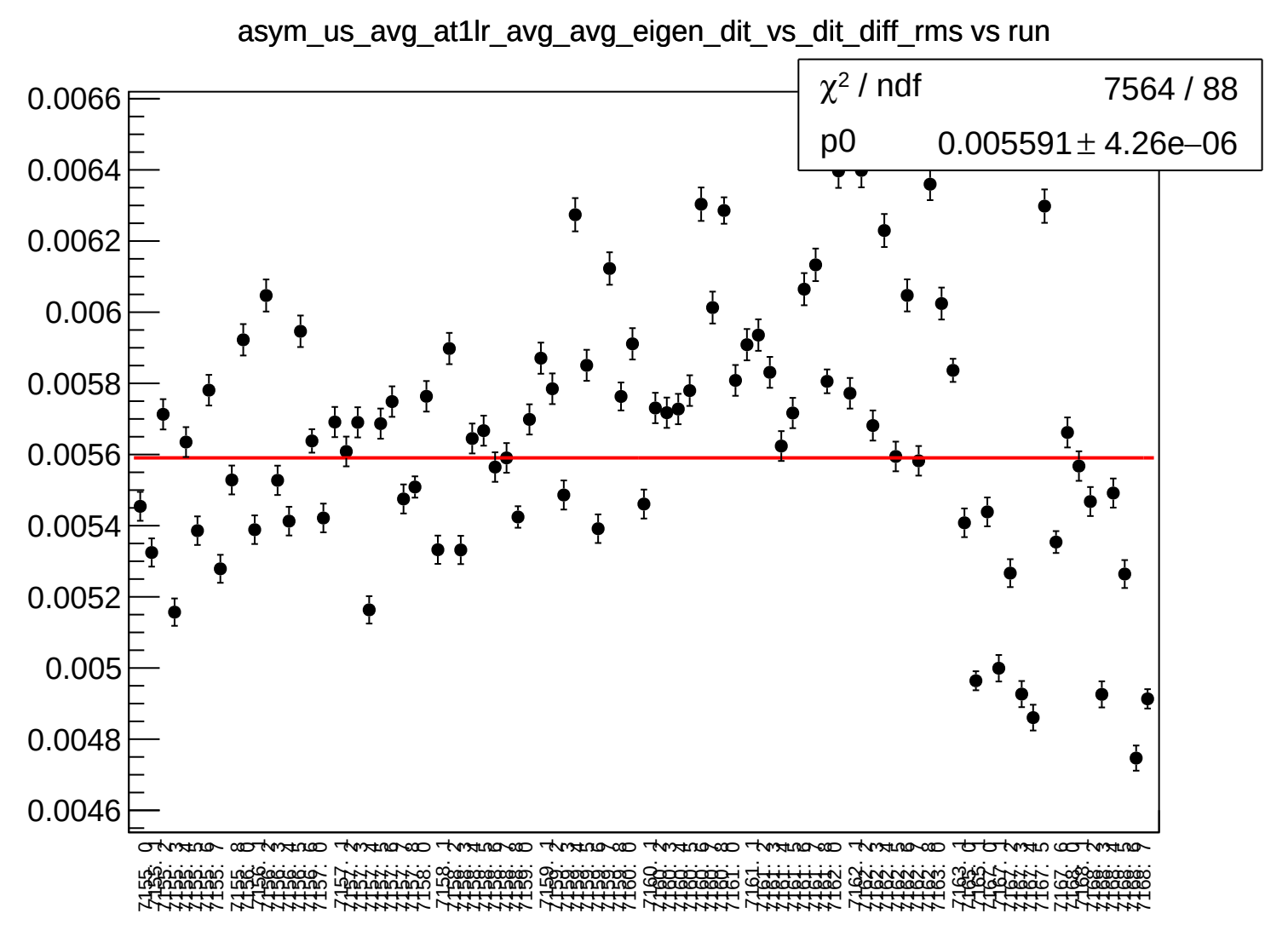

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.63 / 88
p0 0.184 ± 0.1344
pull
Entries 89
Mean 6189
Std Dev 0

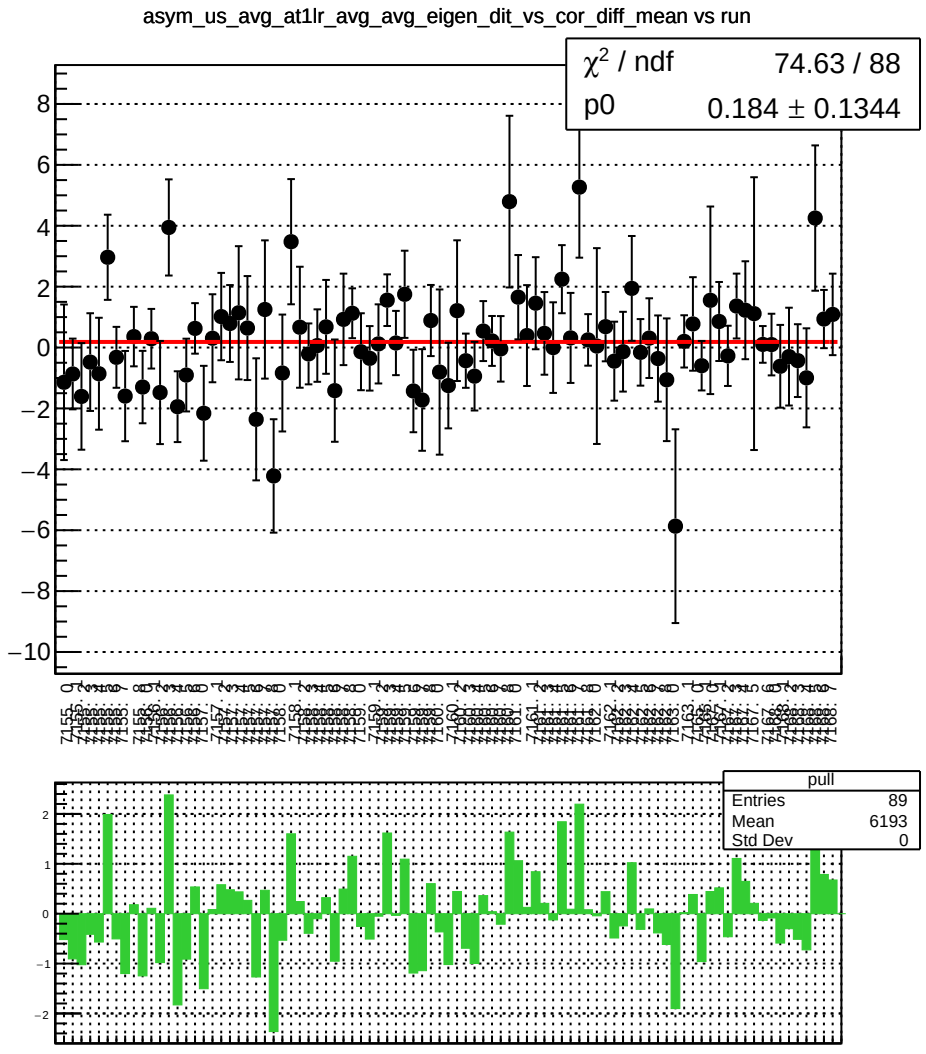

pull1D
Entries 89
Mean 0.0006419
Std Dev 0.9157

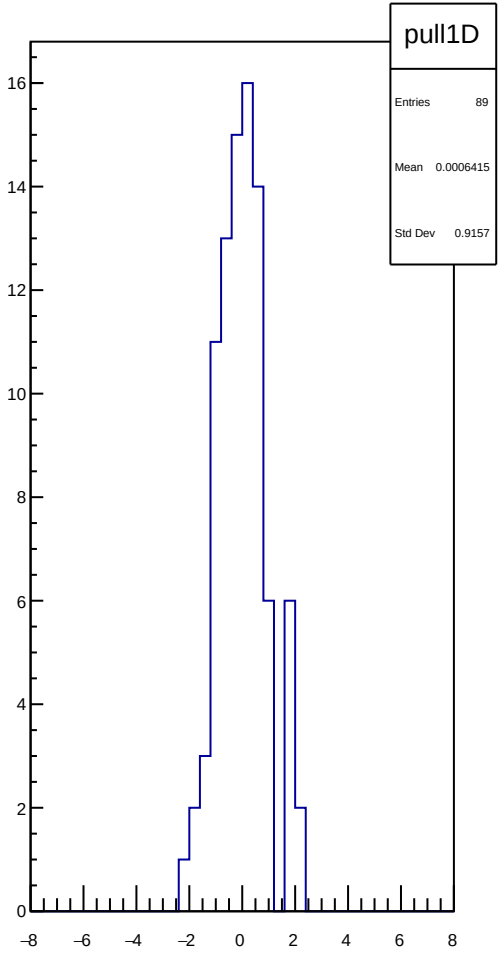

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 88
p0 119.2 ± 0.09502
450
400
350
300
250
200
150
100
50

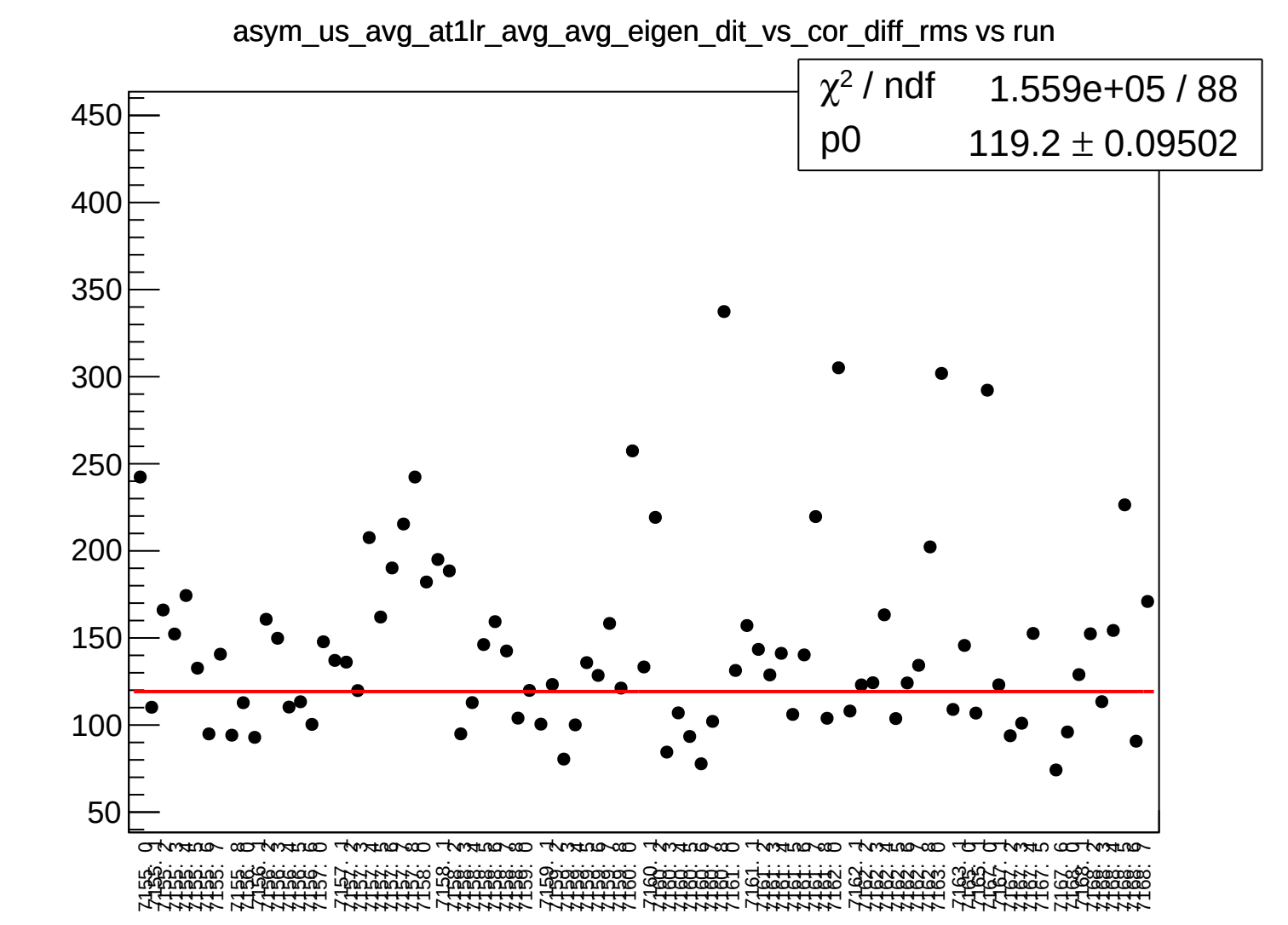

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 70.18 / 88
p0 1.458e−06 ± 6.024e−06
pull
Entries 89
Mean −1.286
Std Dev 0

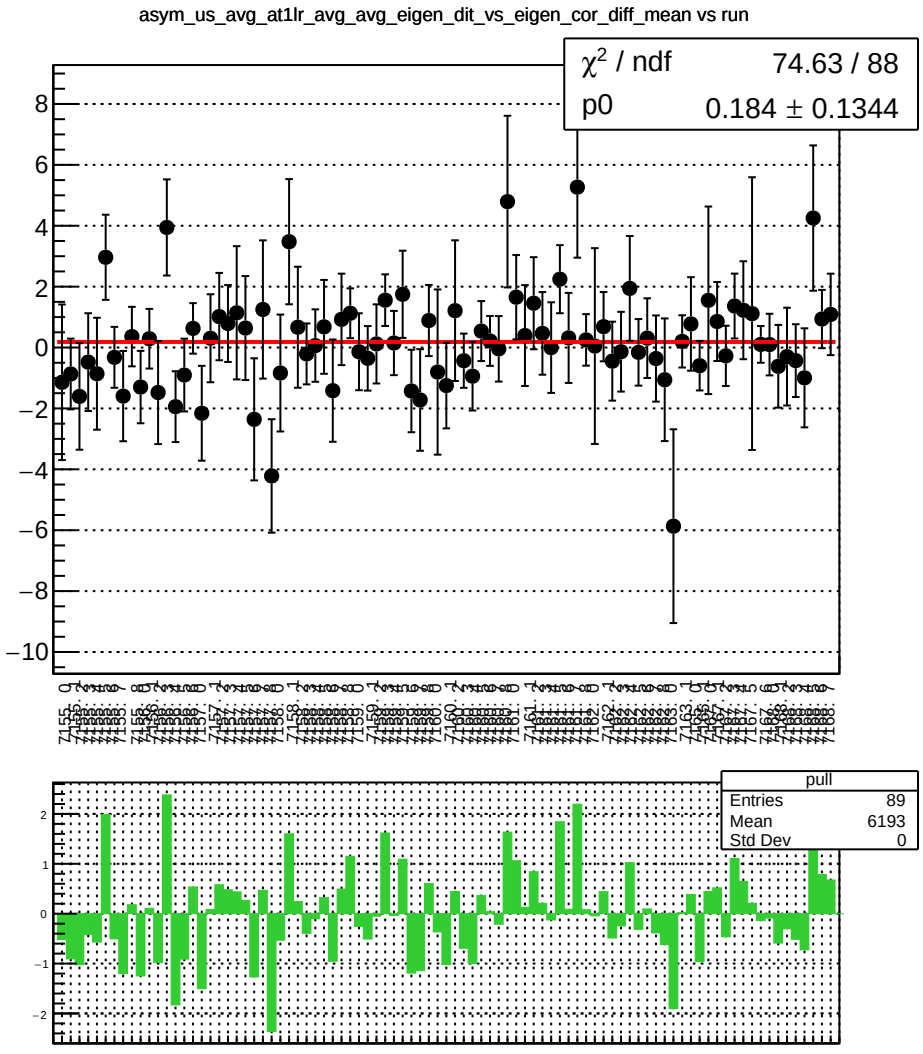

pull1D
Entries 89
Mean 0.02806
Std Dev 0.8876

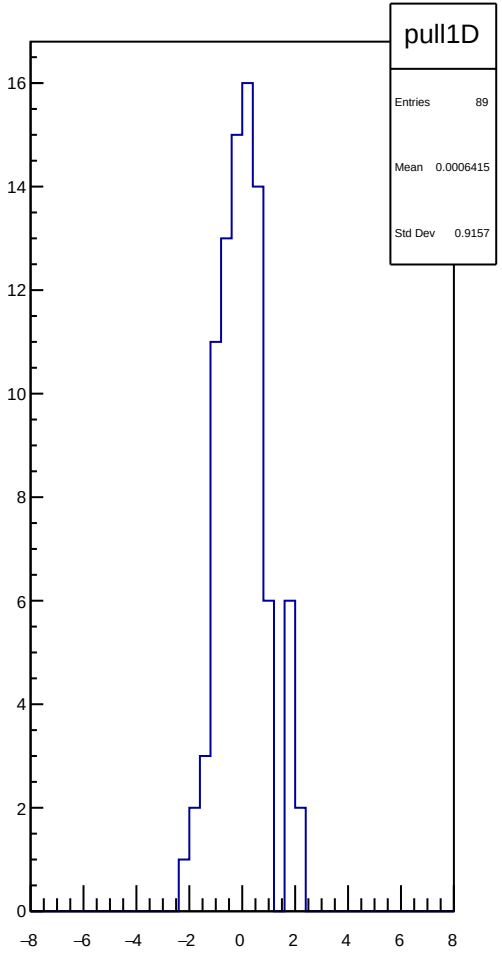

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7564 / 88
p0 0.005591 ± 4.26e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

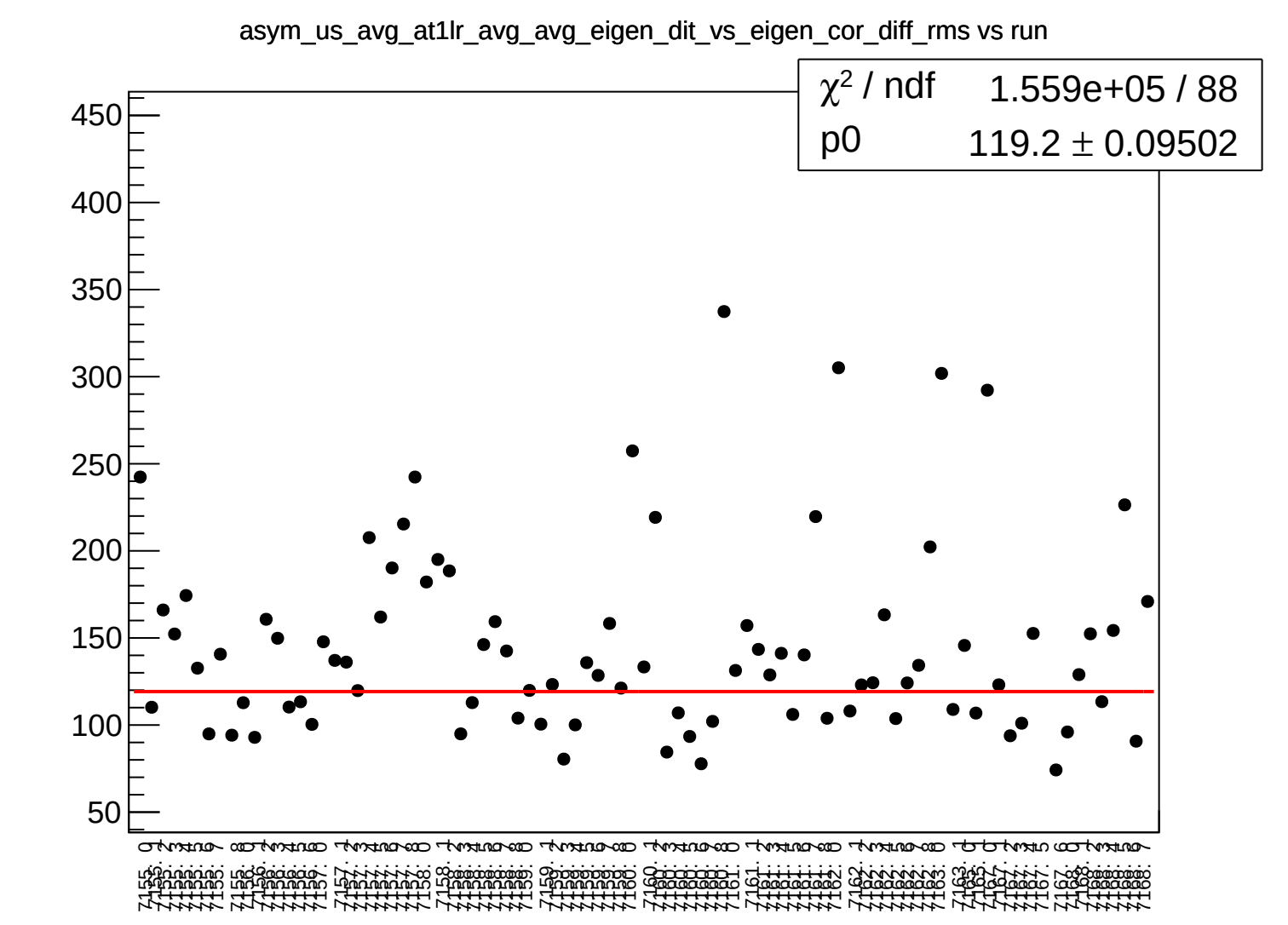

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 74.63 / 88
p0 0.184 ± 0.1344
pull
Entries 89
Mean 6193
Std Dev 0

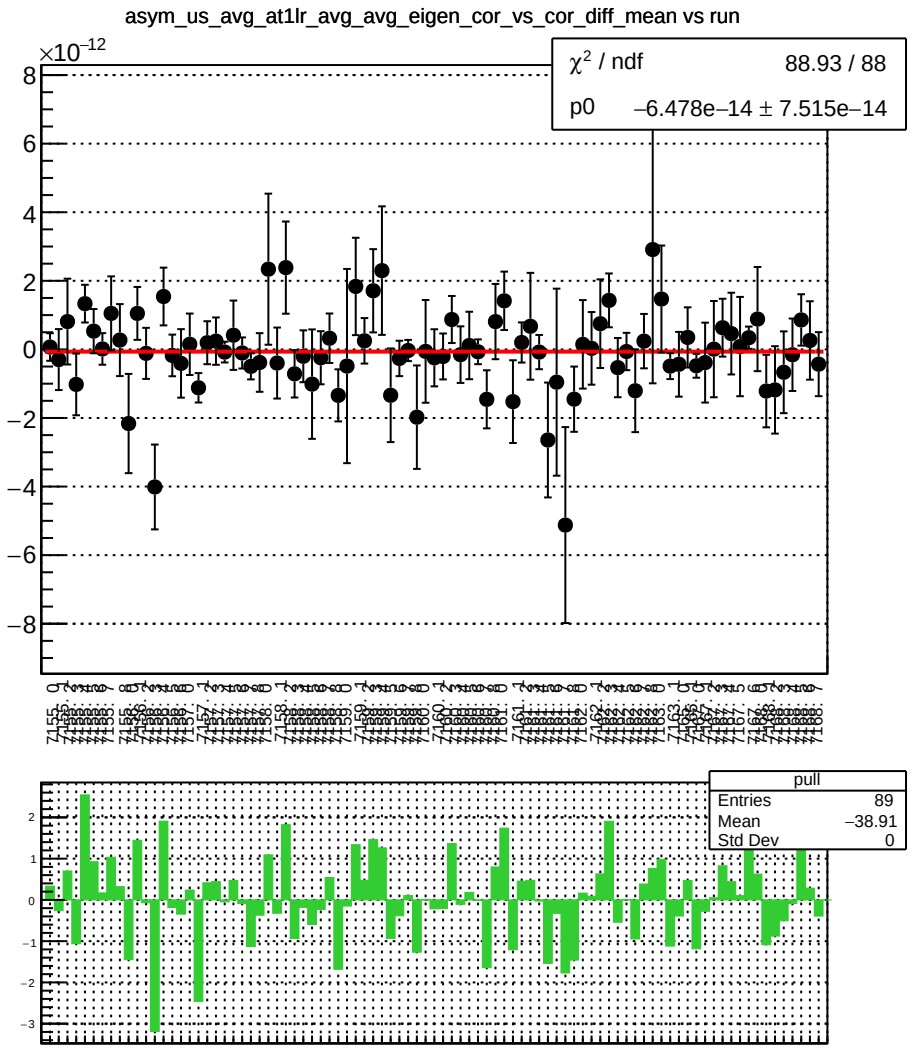

pull1D
Entries 89
Mean 0.0006415
Std Dev 0.9157

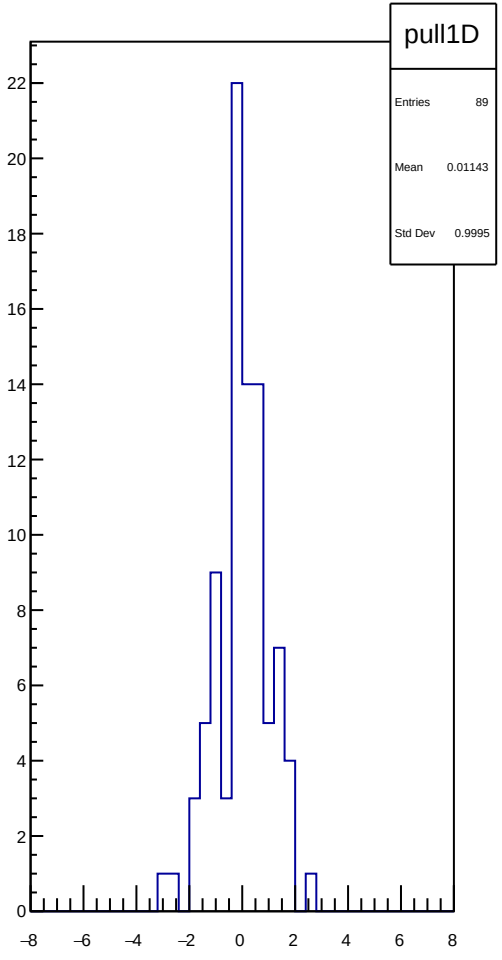

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.559e+05 / 88
p0 119.2 ± 0.09502
450
400
350
300
250
200
150
100
50

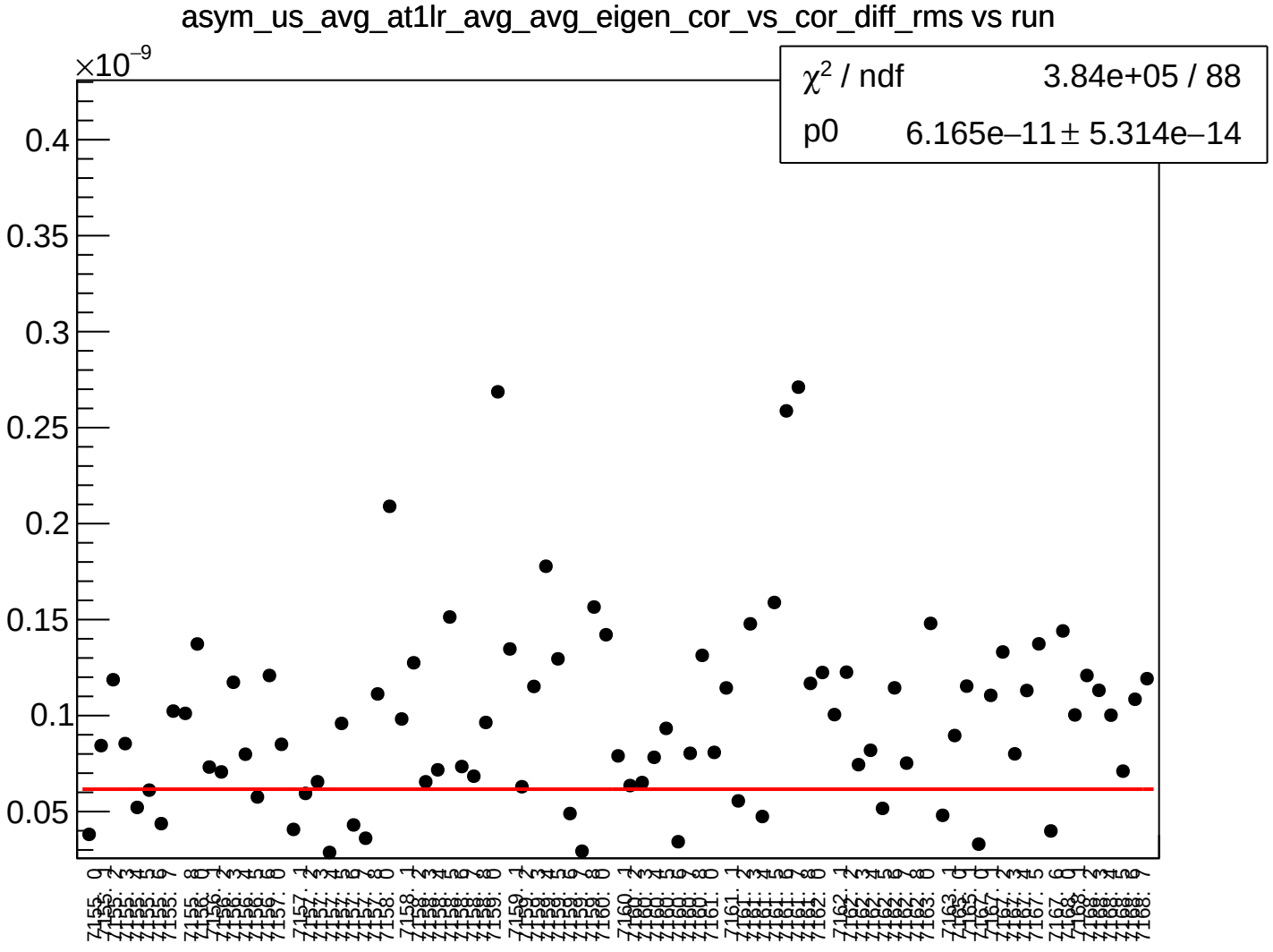

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 74.63 / 88
p0 0.184 ± 0.1344
pull
Entries 89
Mean 6193
Std Dev 0

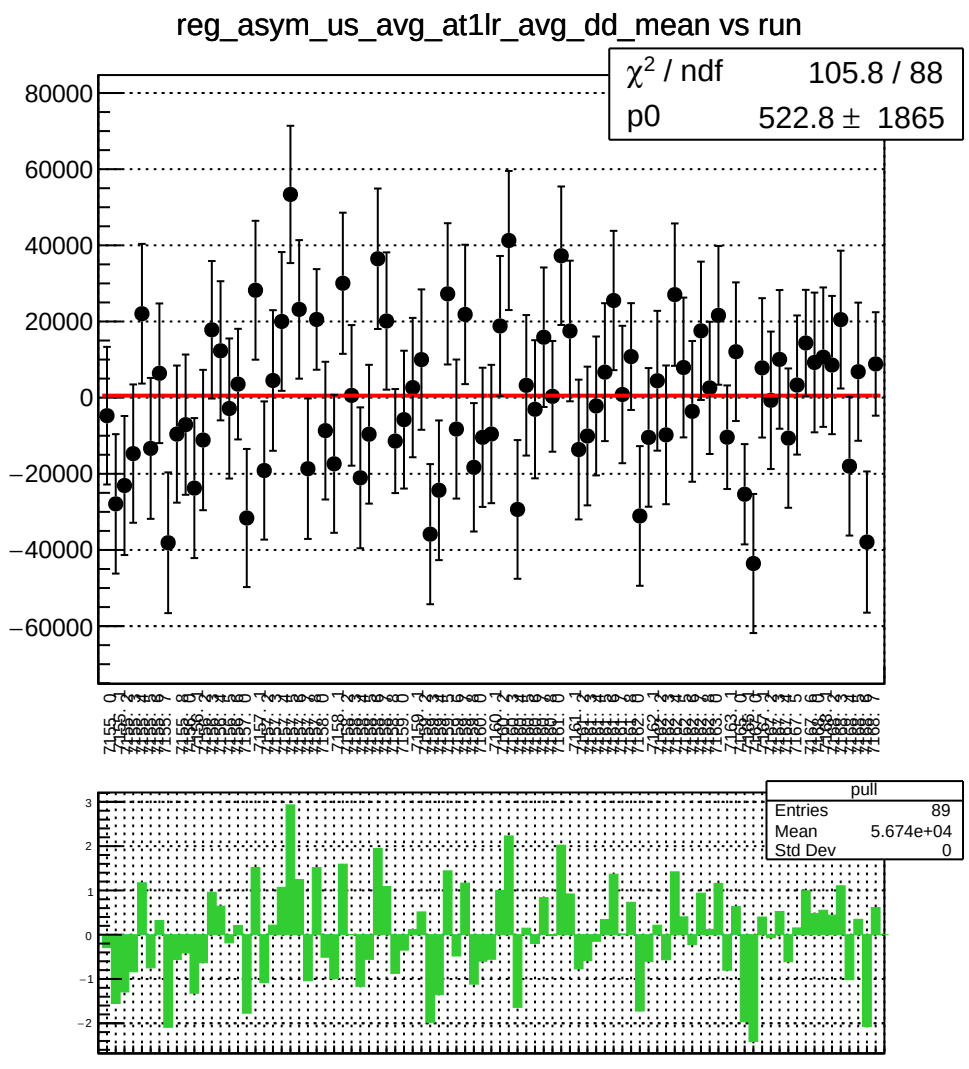

pull1D
Entries 89
Mean 0.0006415
Std Dev 0.9157

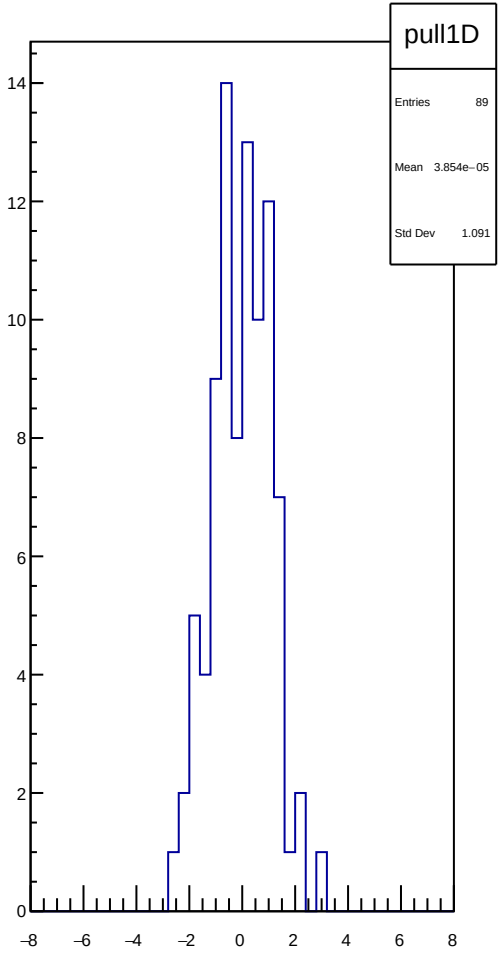

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.559e+05 / 88
p0 119.2 ± 0.09502
450
400
350
300
250
200
150
100
50

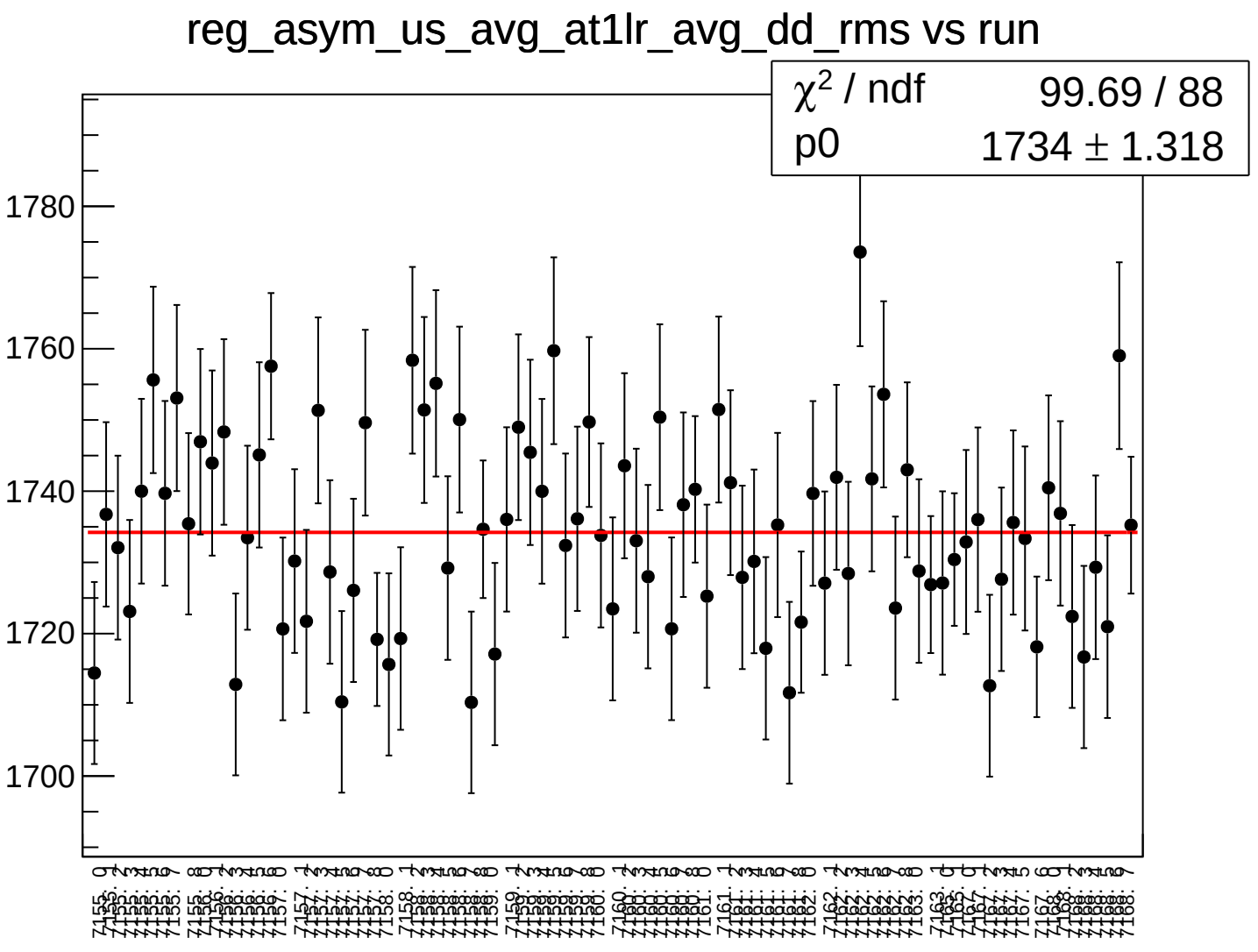

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.93 / 88
p0 −6.478e−14 ± 7.515e−14
pull
Entries 89
Mean −38.91
Std Dev 0

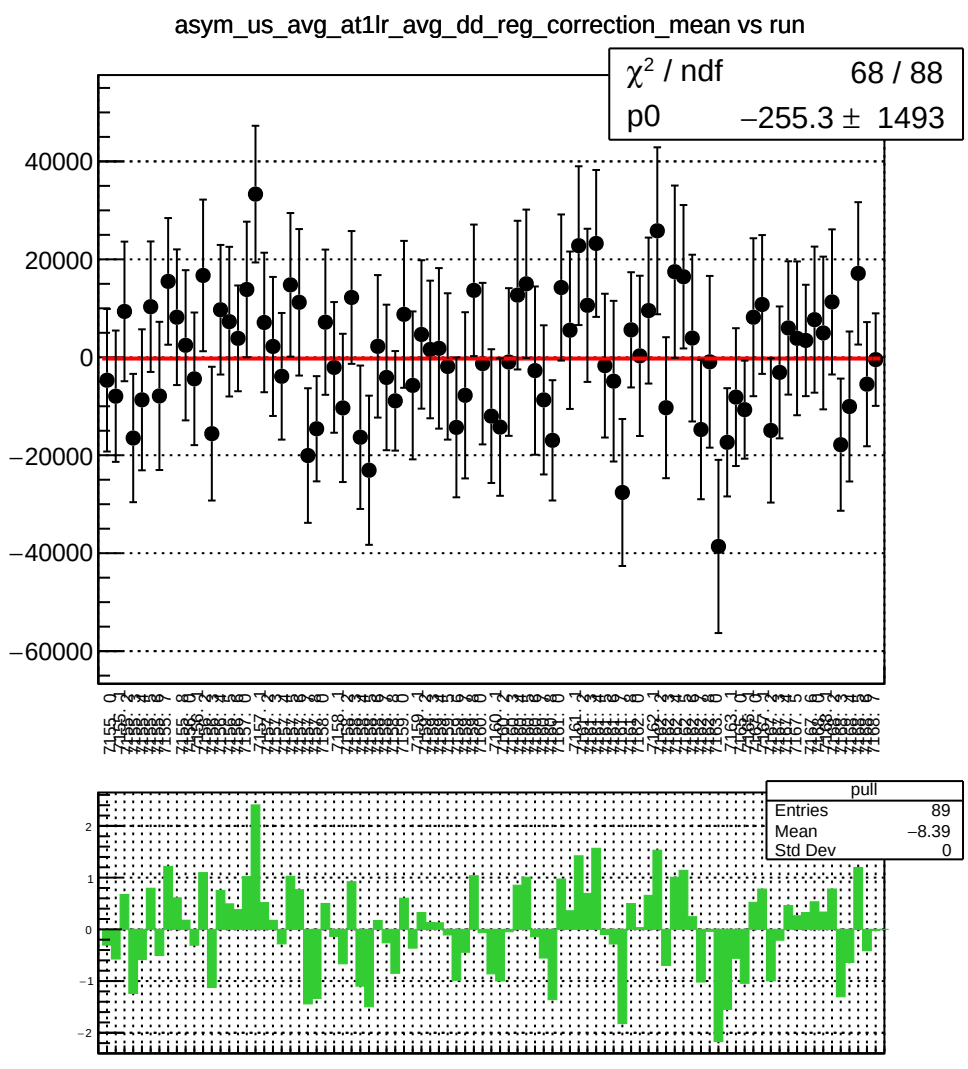

pull1D
Entries 89
Mean 0.01143
Std Dev 0.9995

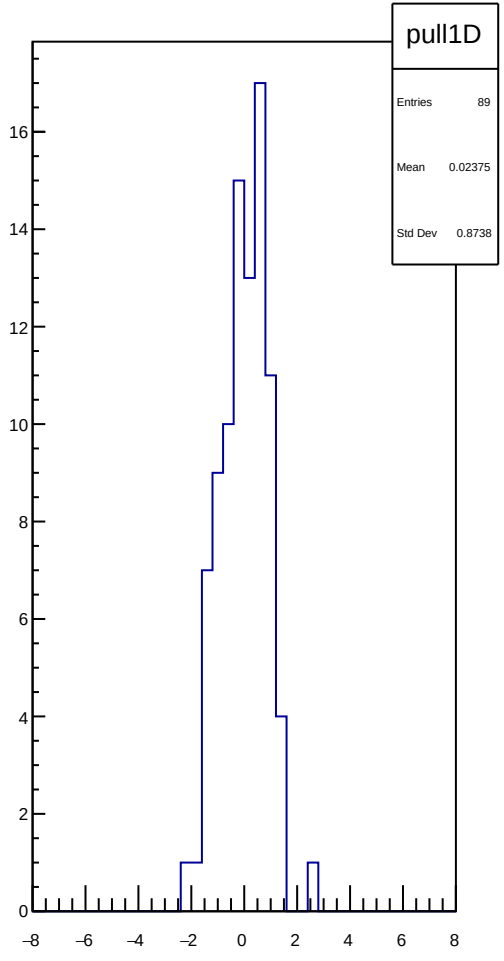

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.84e+05 / 88
p0 6.165e−11 ± 5.314e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

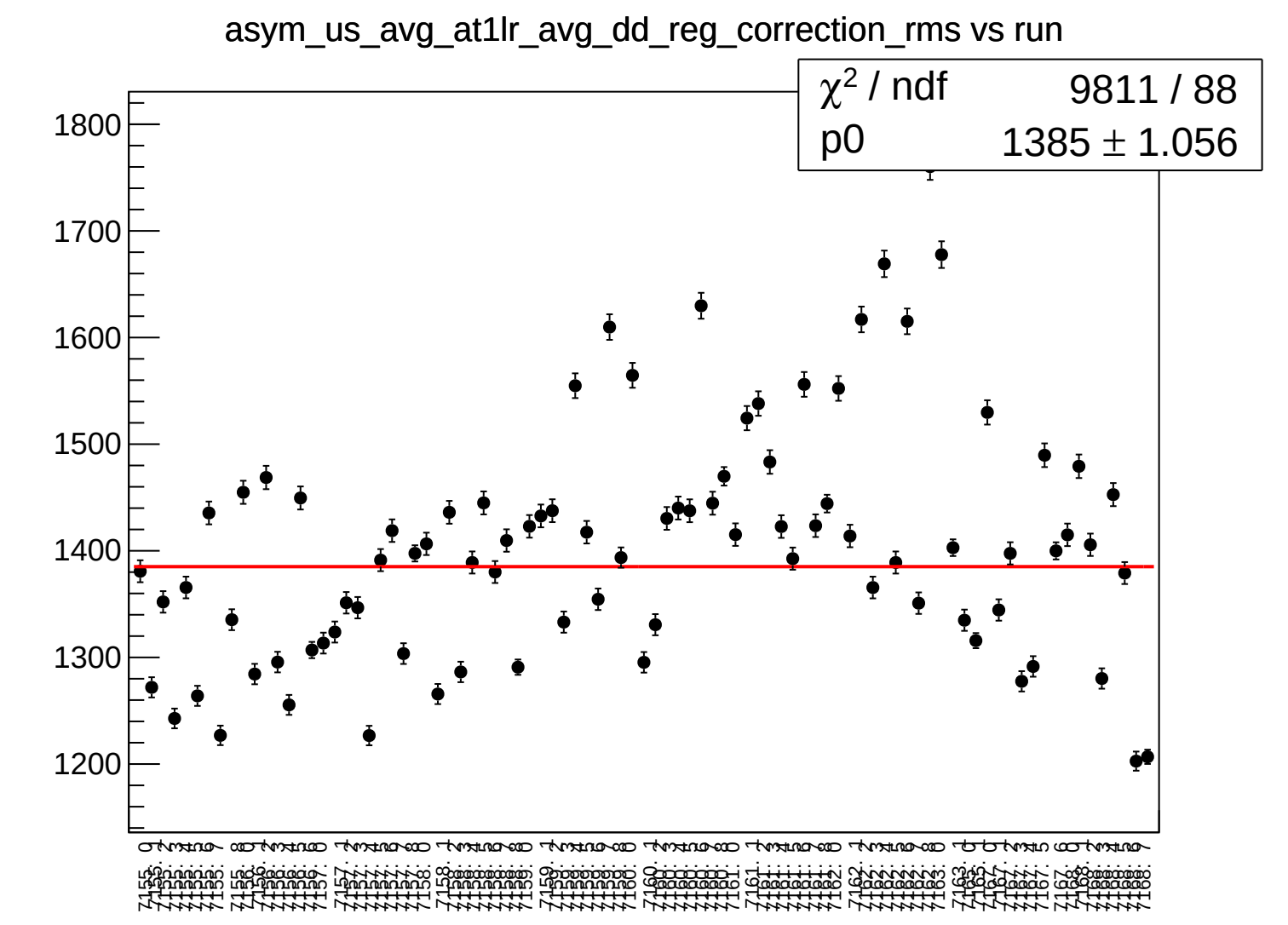

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 105.8 / 88
p0 522.8 ± 1865
pull
Entries 89
Mean 5.674e+04
Std Dev 0

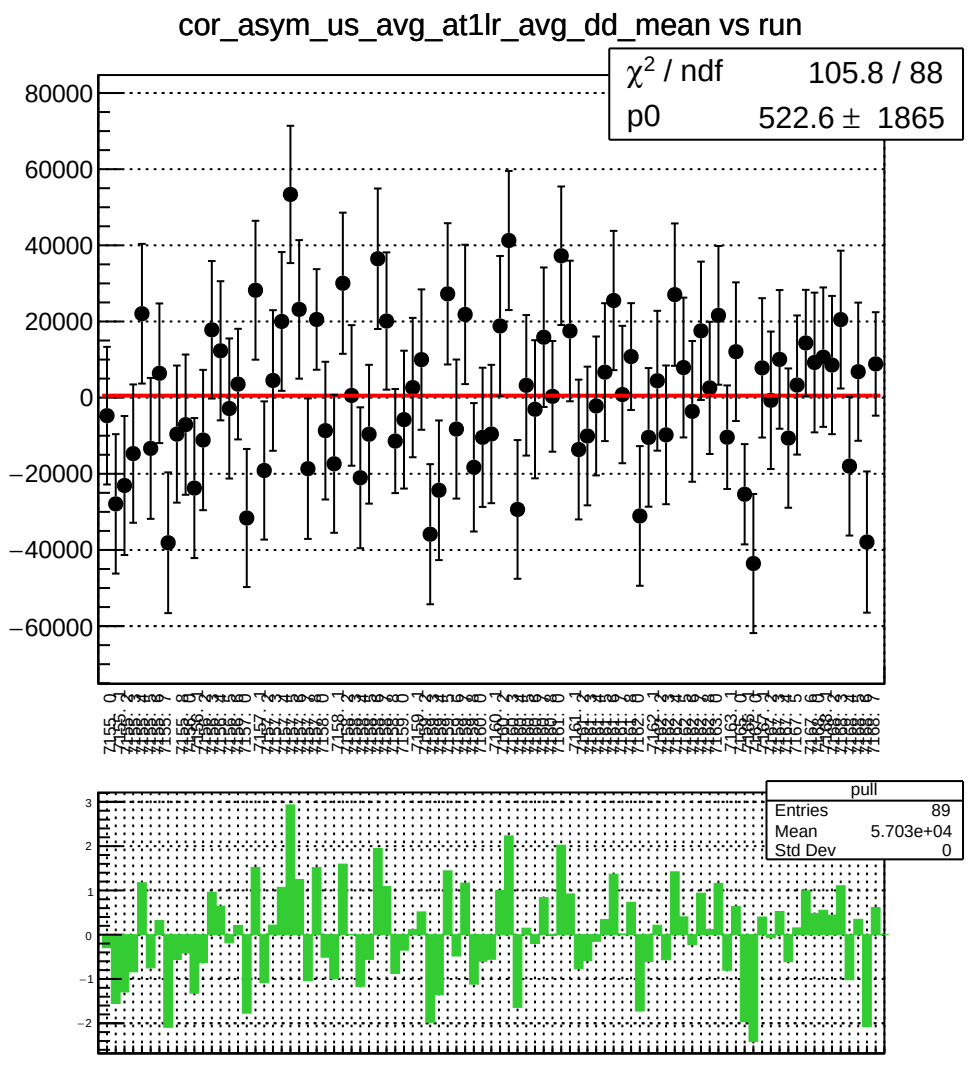

pull1D
Entries 89
Mean 3.854e−05
Std Dev 1.091

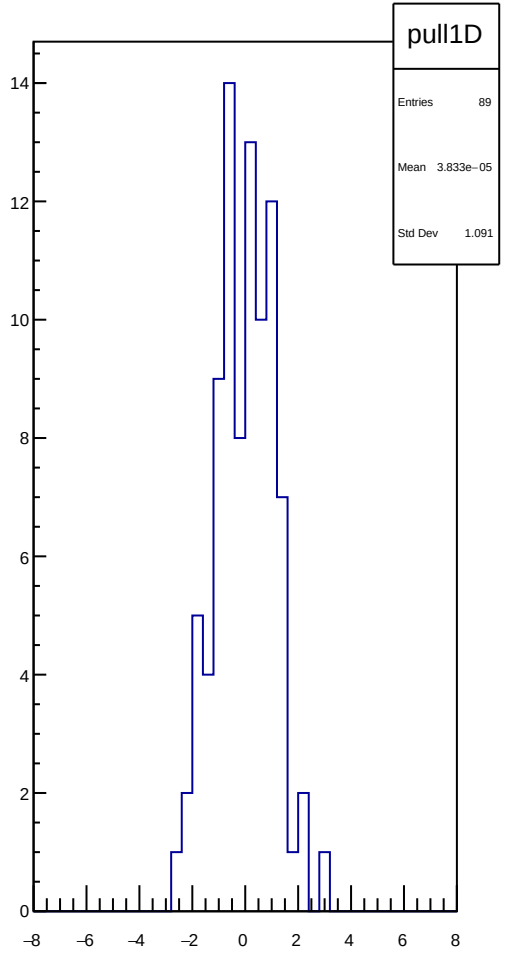

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 99.69 / 88
p0 1734 ± 1.318
1780
1760
1740
1720
1700

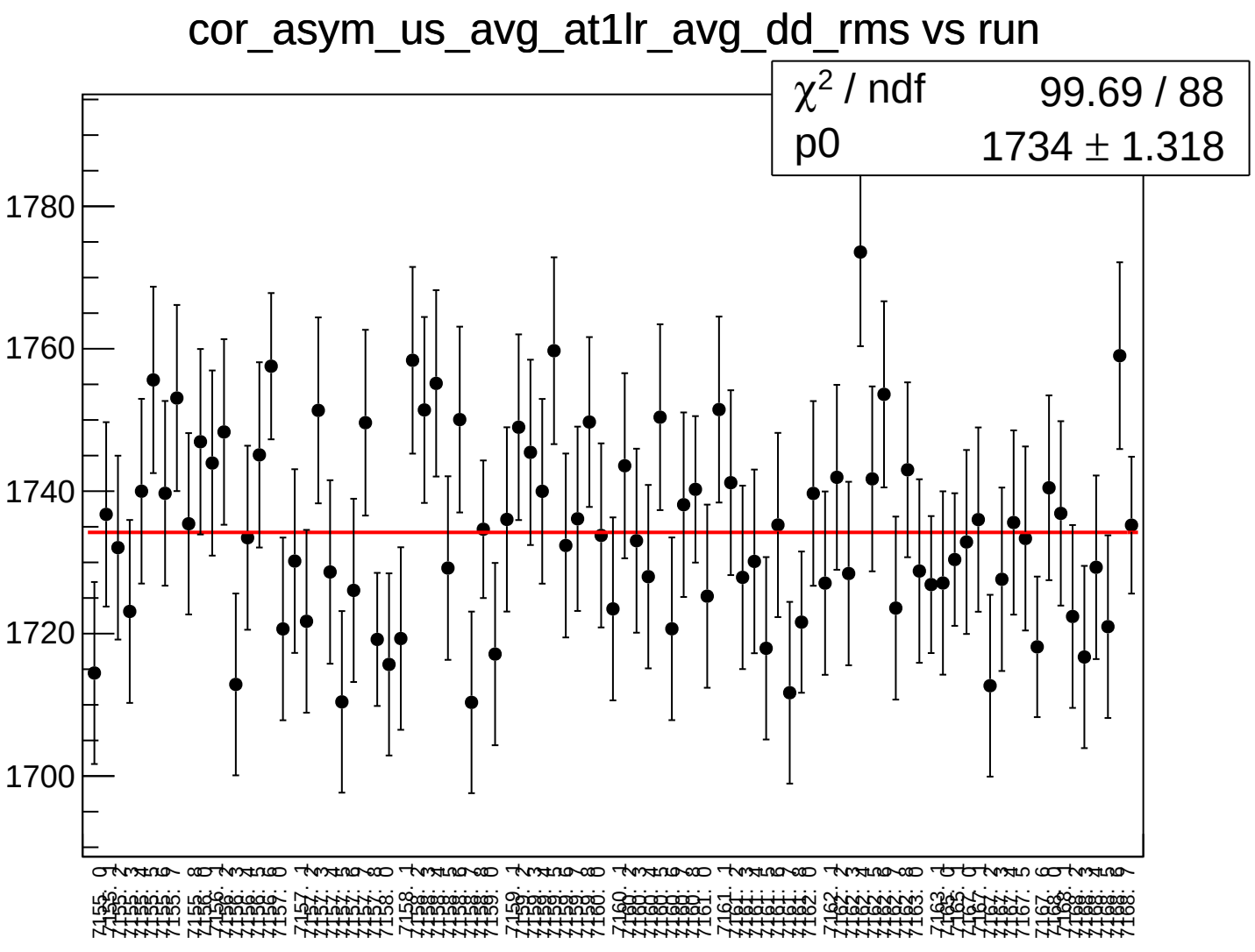

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 68 / 88
p0 −255.3 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −8.39
Std Dev 0
2
1
0
−1
−2

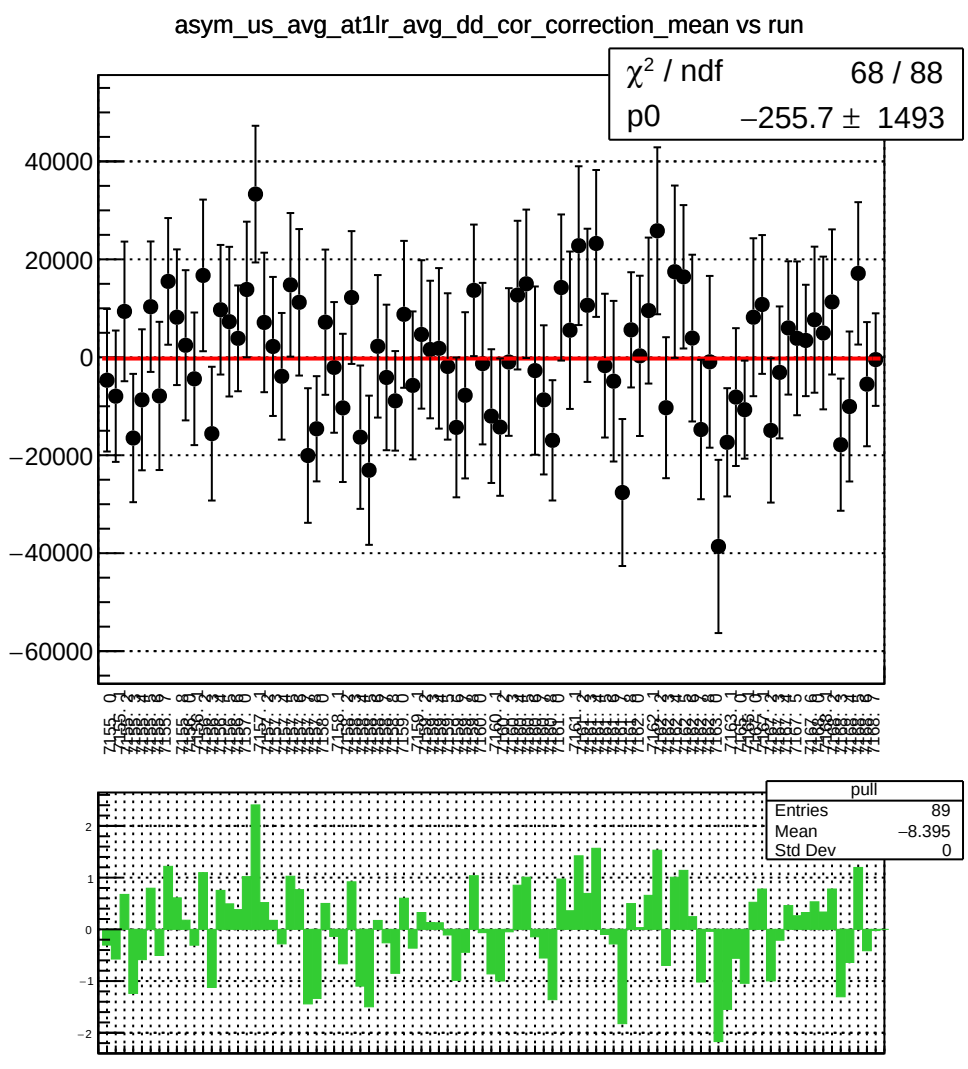

pull1D
Entries 89
Mean 0.02375
Std Dev 0.8738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

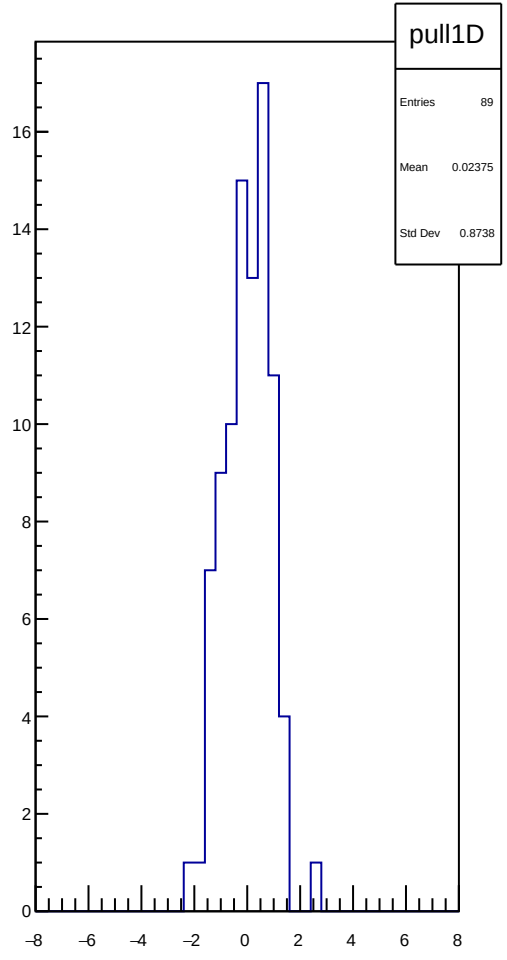

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 9811 / 88
p0 1385 ± 1.056
1800
1700
1600
1500
1400
1300
1200

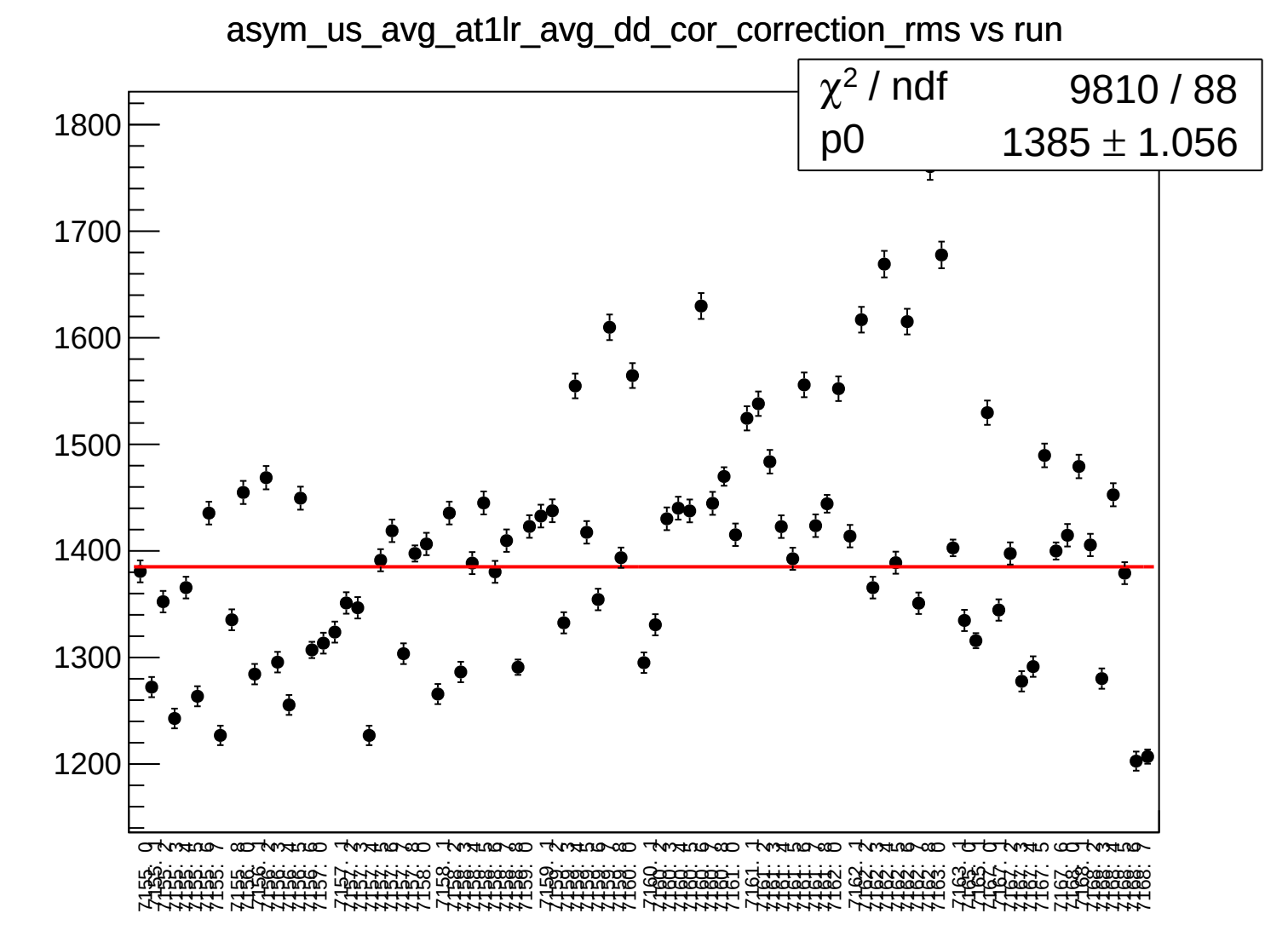

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 105.8 / 88
p0 522.6 ± 1865
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 5.703e+04
Std Dev 0
3
2
1
0
−1
−2

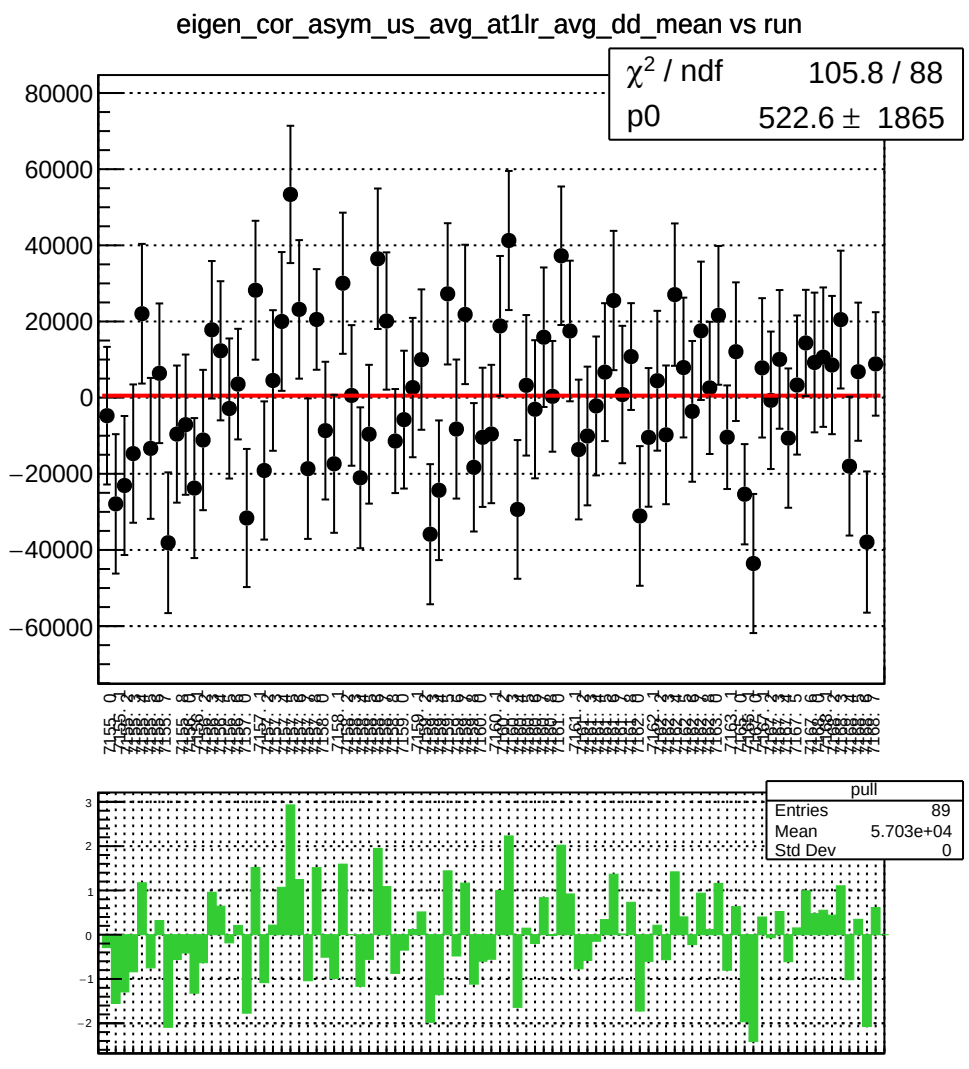

pull1D
Entries 89
Mean 3.833e−05
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

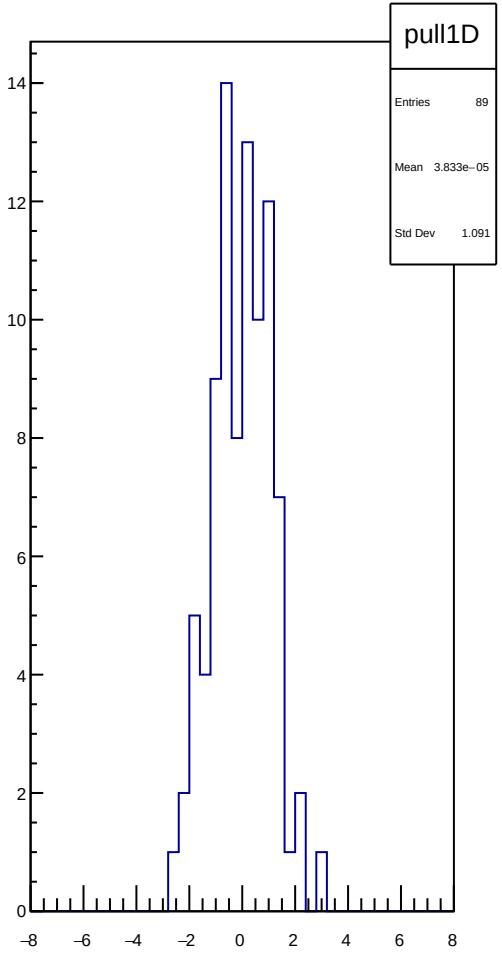

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 99.69 / 88
p0 1734 ± 1.318
1780
1760
1740
1720
1700

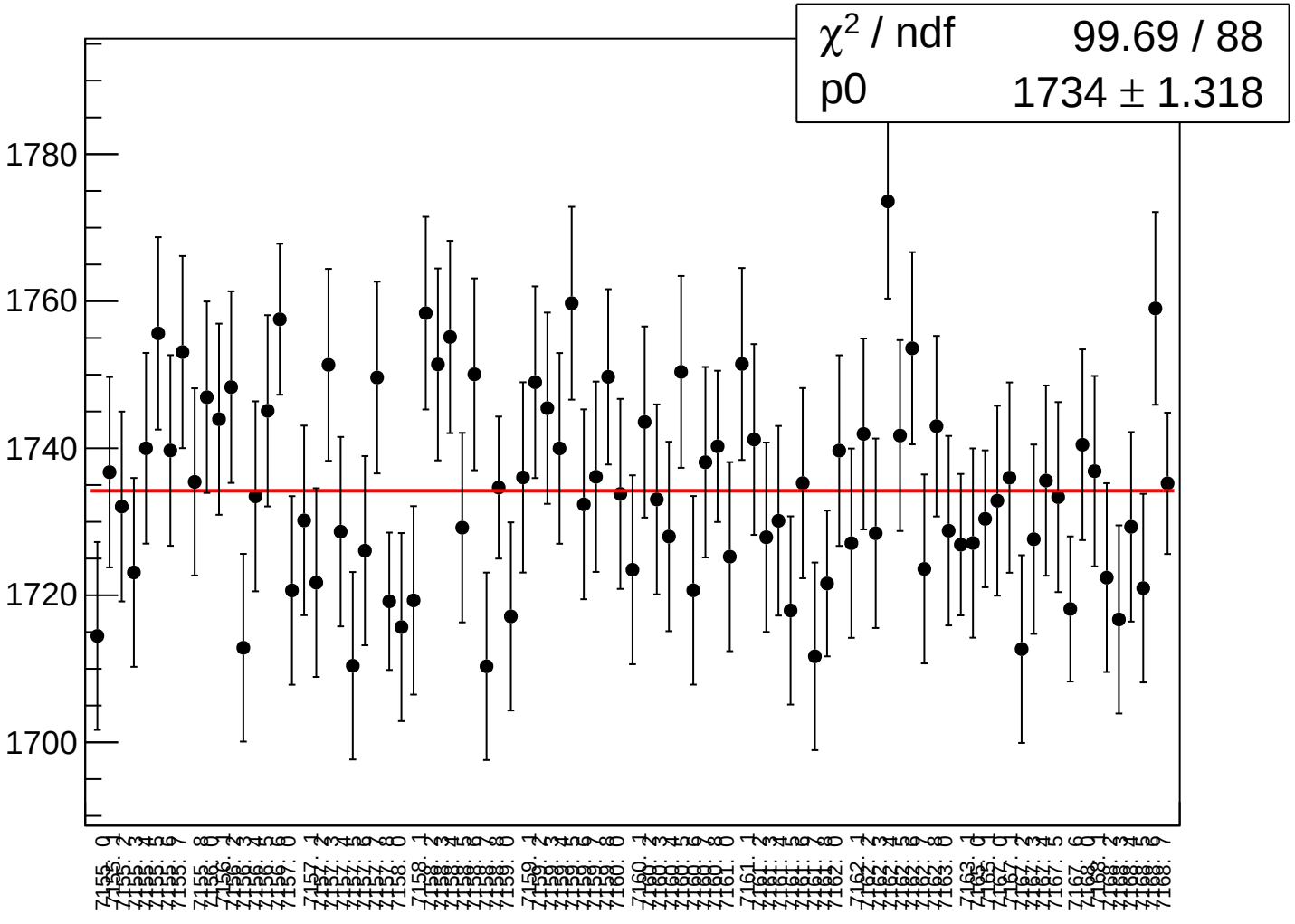

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 68 / 88
p0 −255.7 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −8.395
Std Dev 0
2
1
0
−1
−2

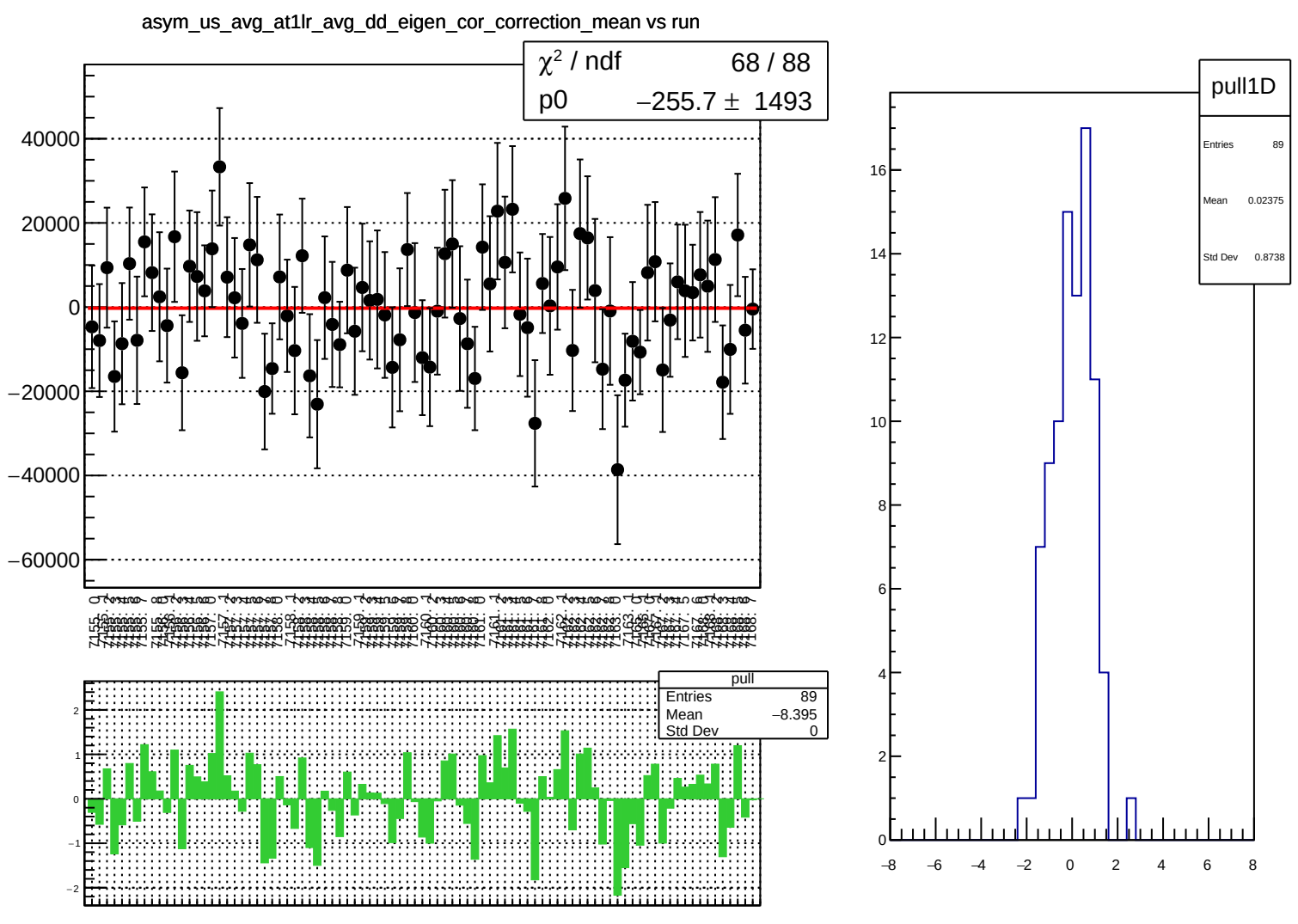

pull1D
Entries 89
Mean 0.02375
Std Dev 0.8738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

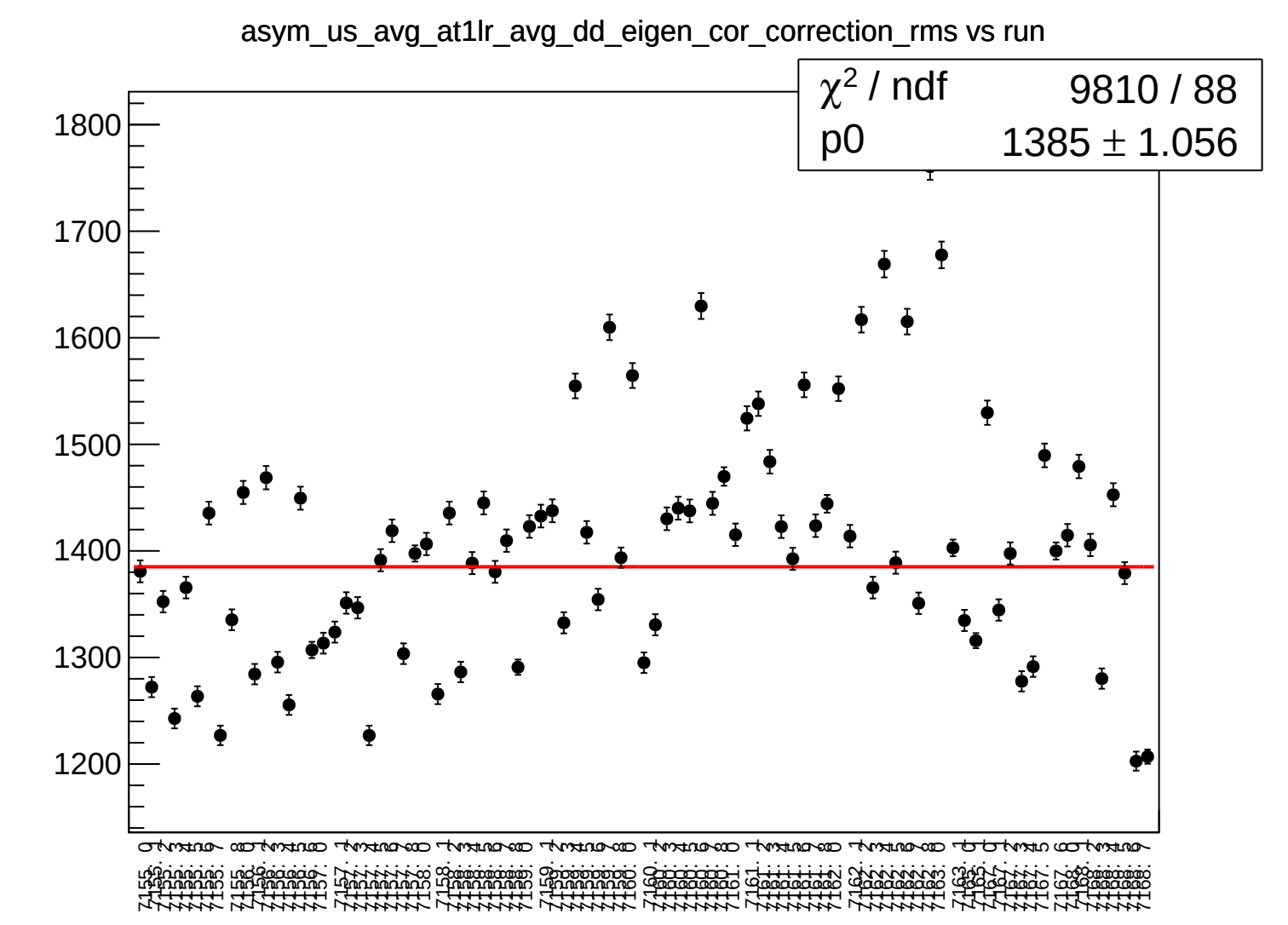

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 9810 / 88
p0 1385 ± 1.056
1800
1700
1600
1500
1400
1300
1200

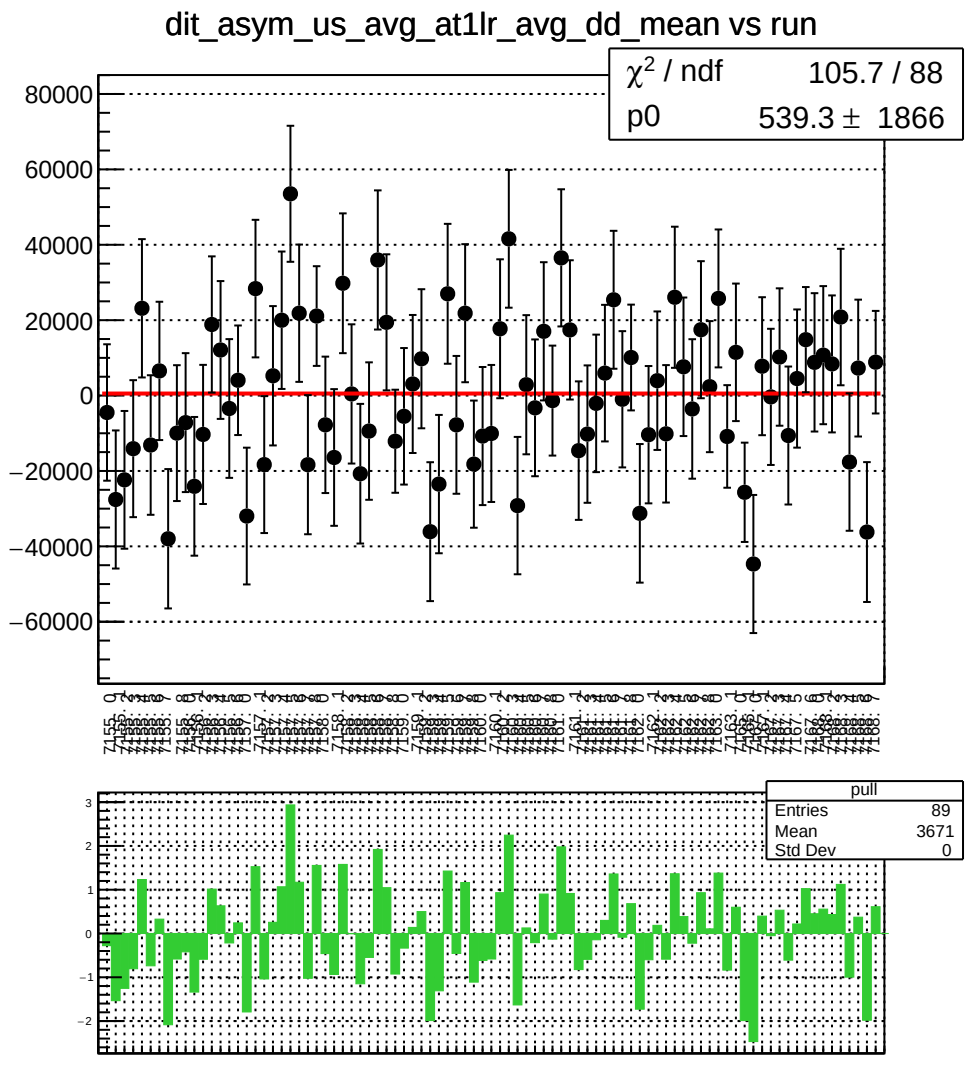

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 105.8 / 88
p0 522.6 ± 1865
pull
Entries 89
Mean 5.703e+04
Std Dev 0

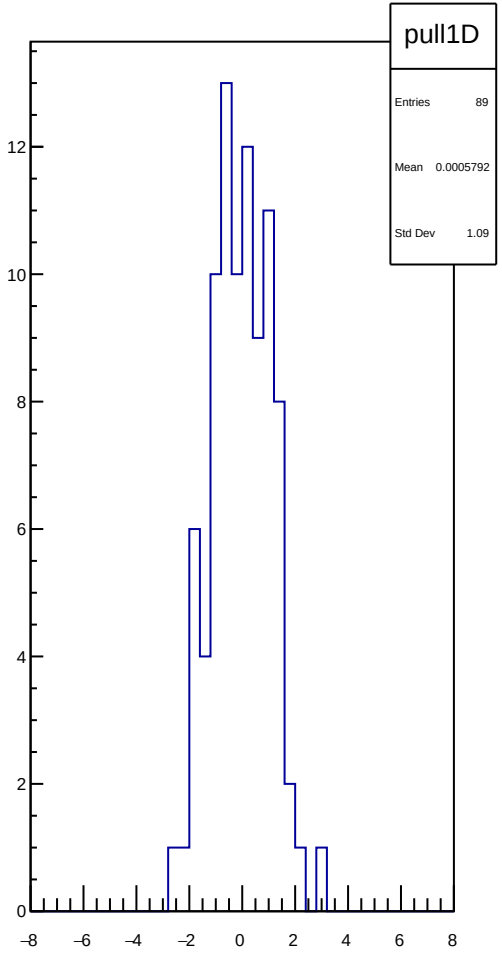

pull1D
Entries 89
Mean 3.833e−05
Std Dev 1.091

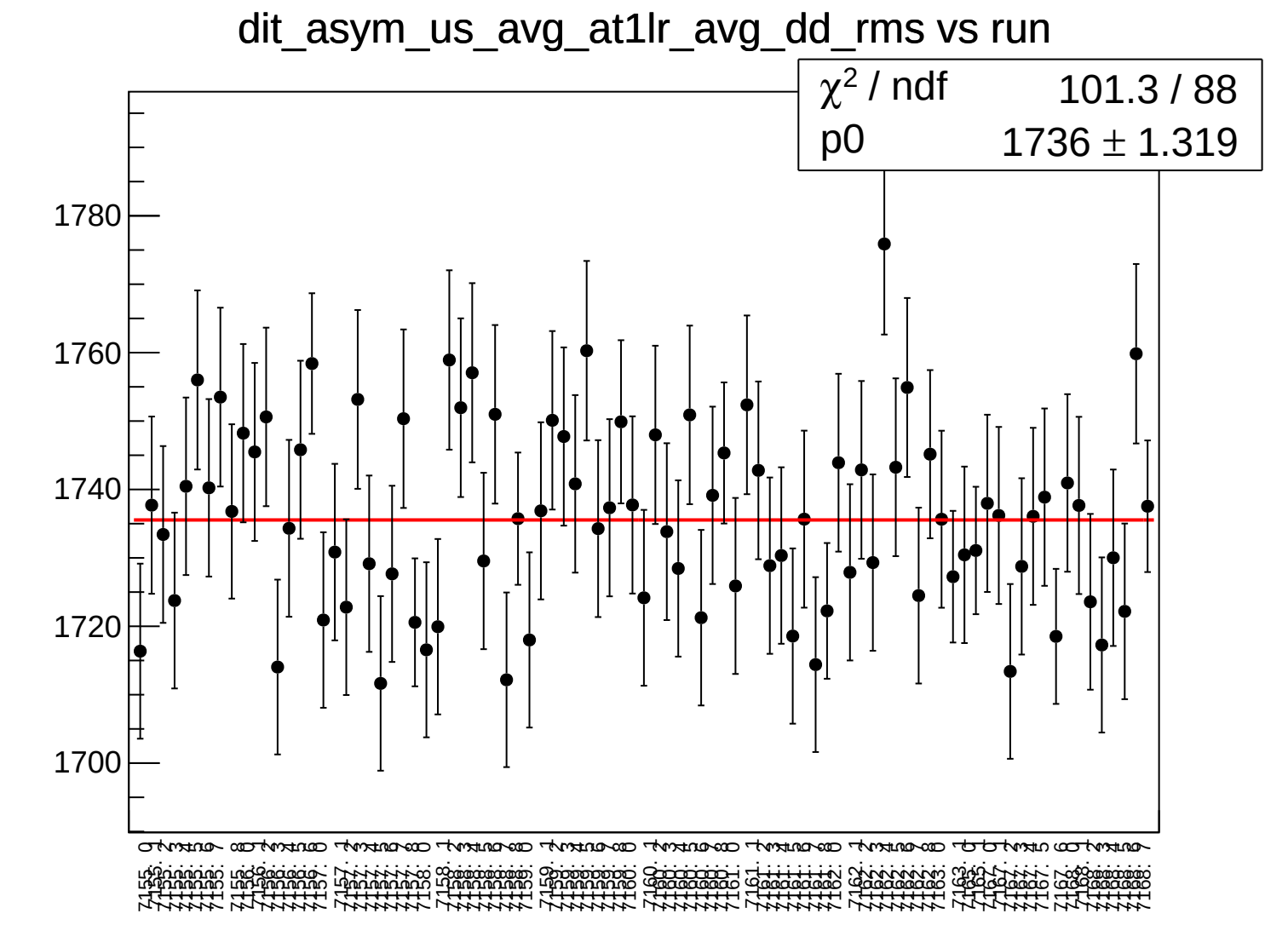

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 99.69 / 88
p0 1734 ± 1.318
1780
1760
1740
1720
1700

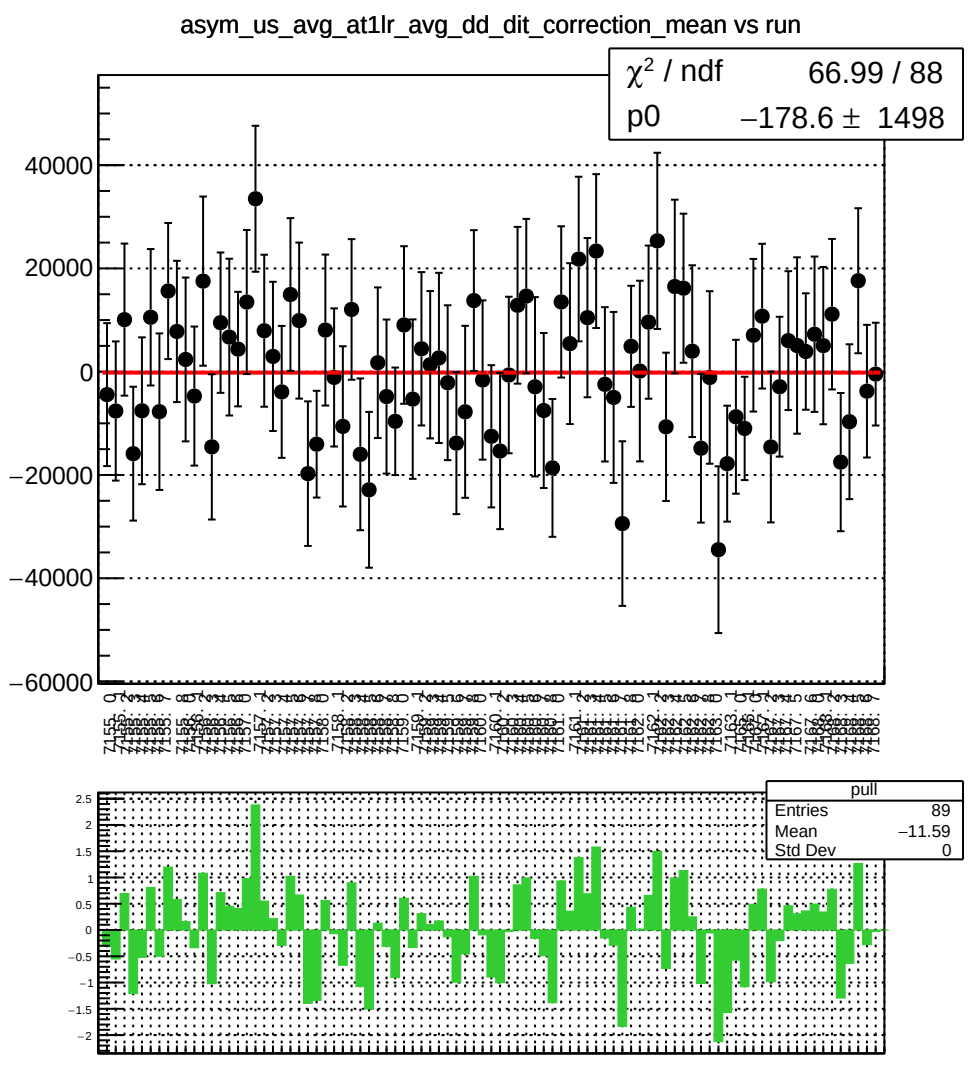

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 68 / 88
p0 −255.7 ± 1493
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −8.395
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02375
Std Dev 0.8738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

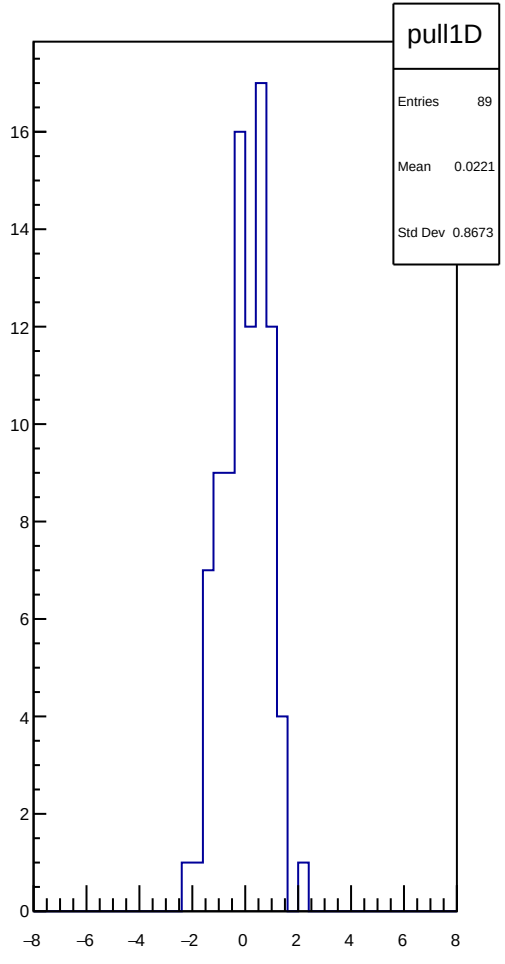

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 9810 / 88
p0 1385 ± 1.056
1800
1700
1600
1500
1400
1300
1200

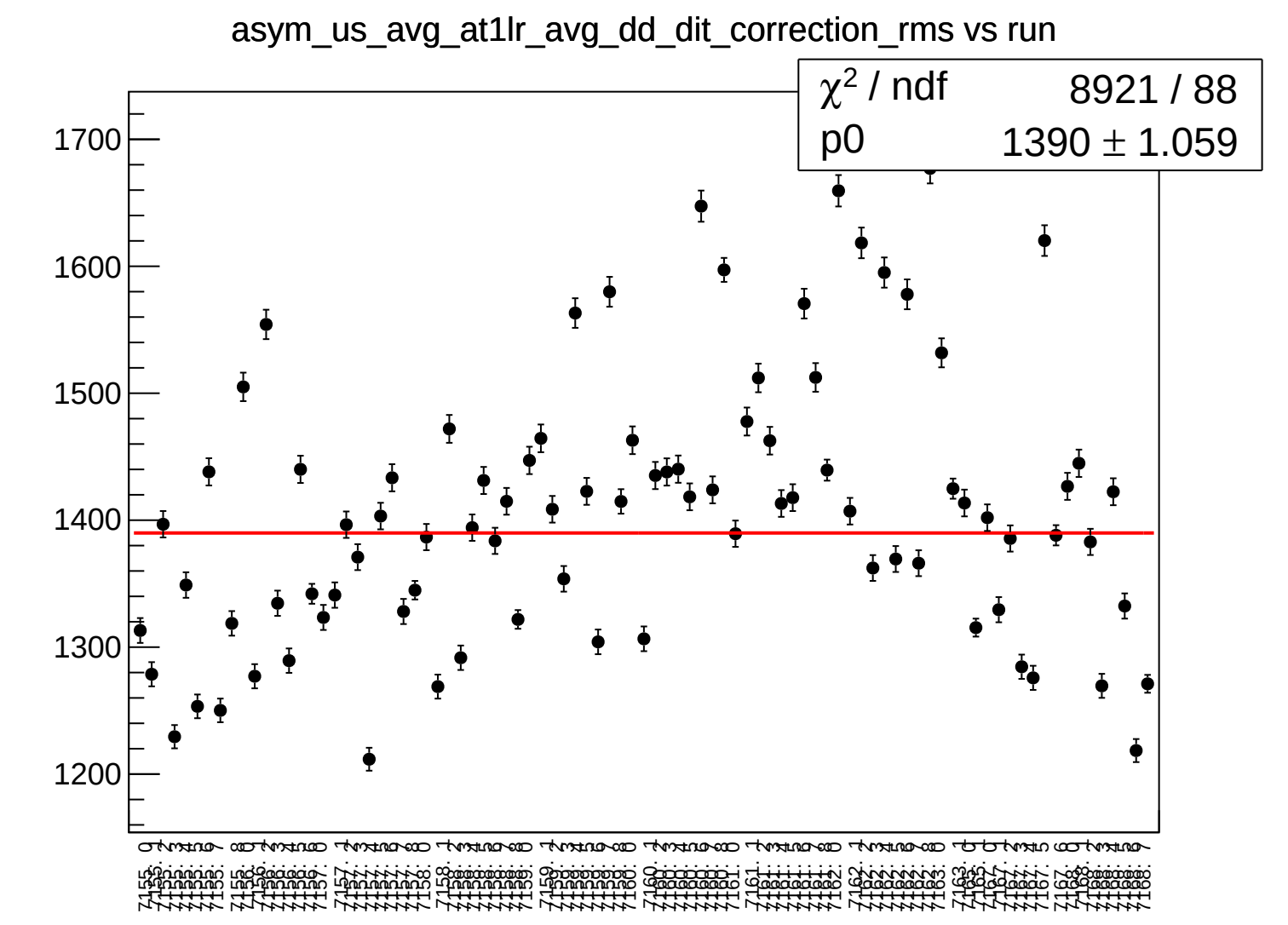

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 105.7 / 88
p0 539.3 ± 1866
pull
Entries 89
Mean 3671
Std Dev 0

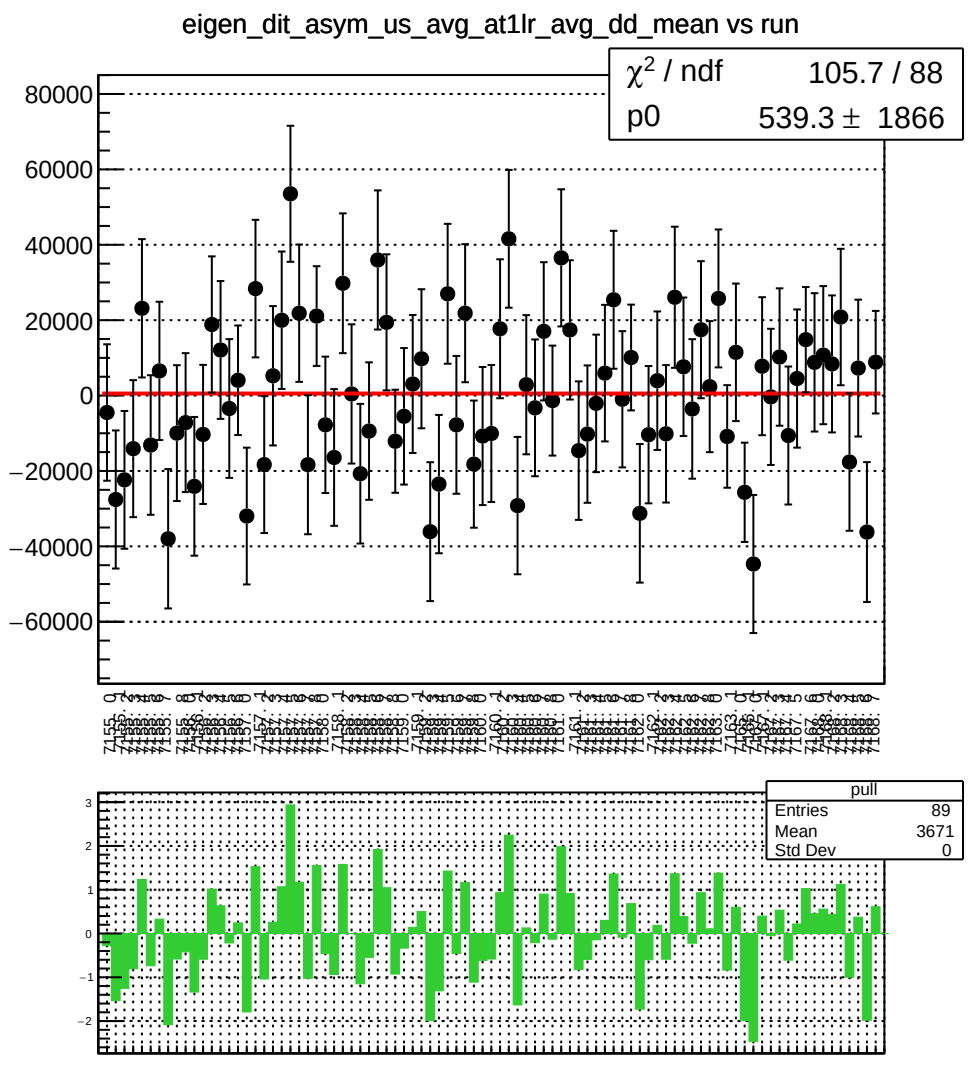

pull1D
Entries 89
Mean 0.0005792
Std Dev 1.09

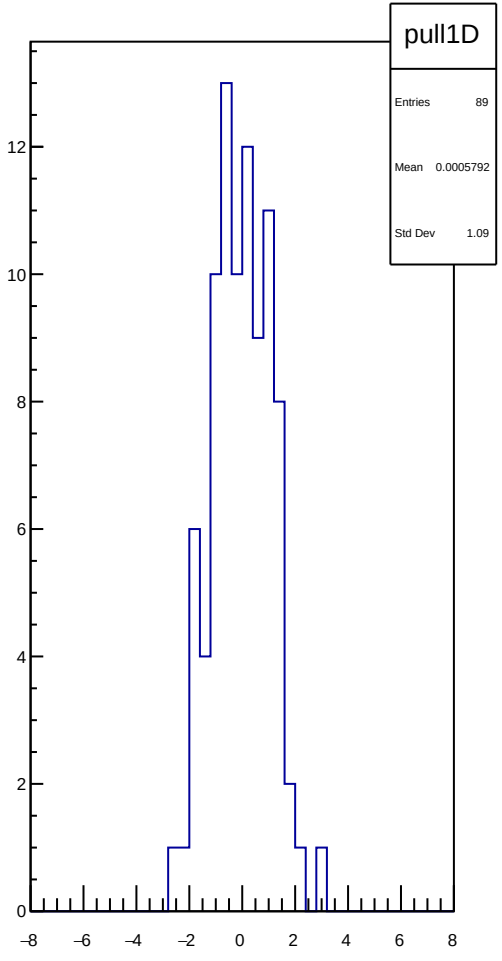

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 101.3 / 88
p0 1736 ± 1.319
1780
1760
1740
1720
1700

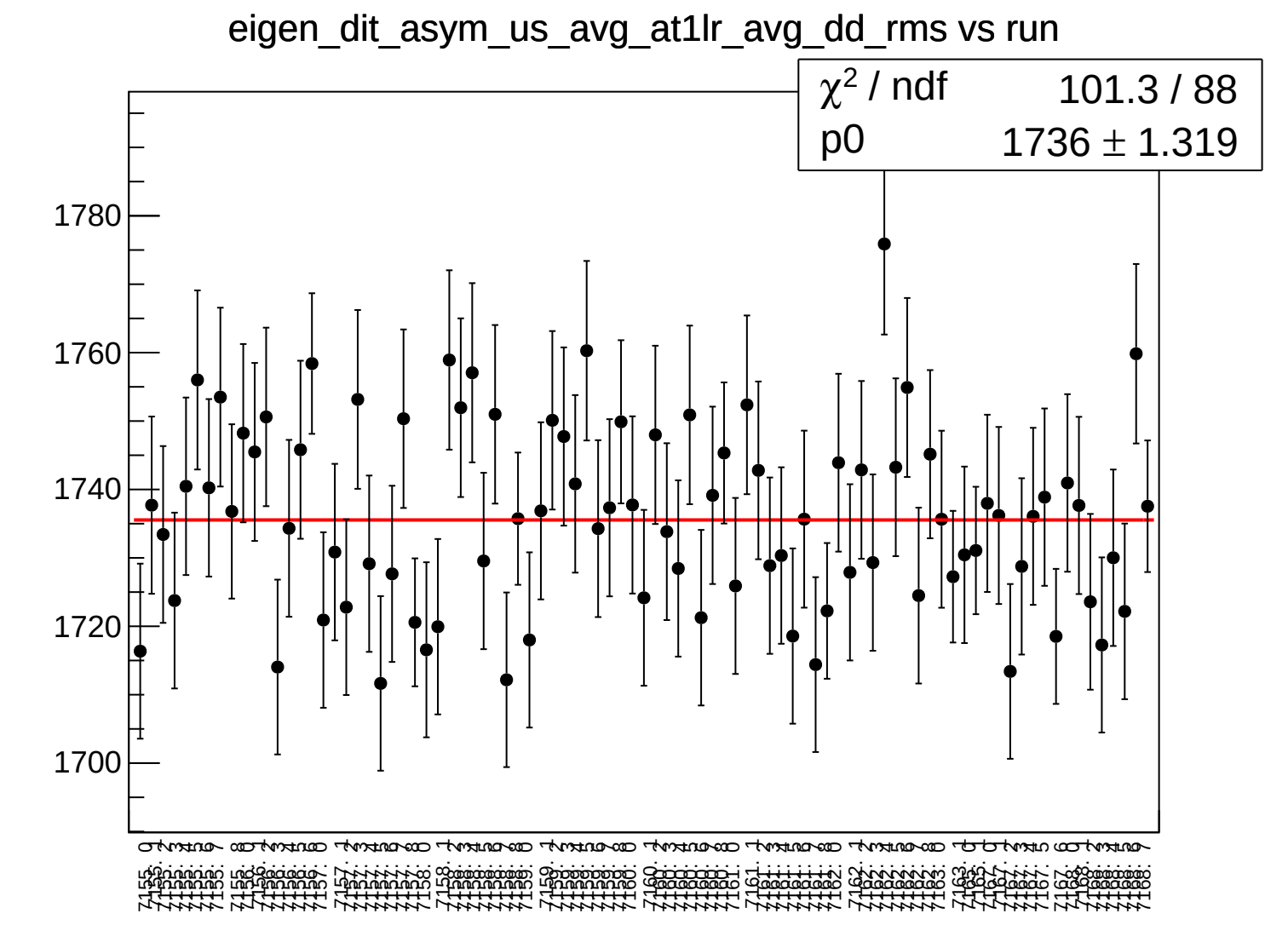

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 66.99 / 88
p0 −178.6 ± 1498
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −11.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

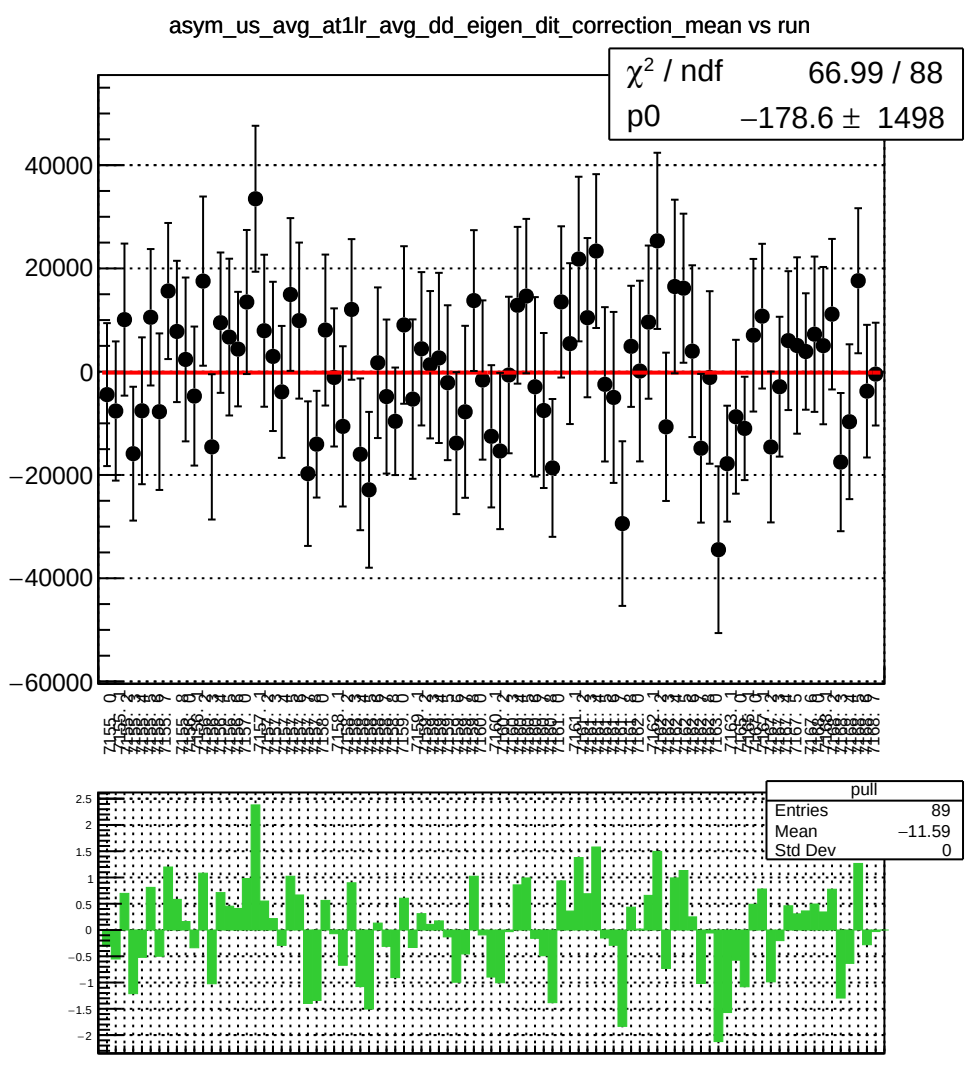

pull1D
Entries 89
Mean 0.0221
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

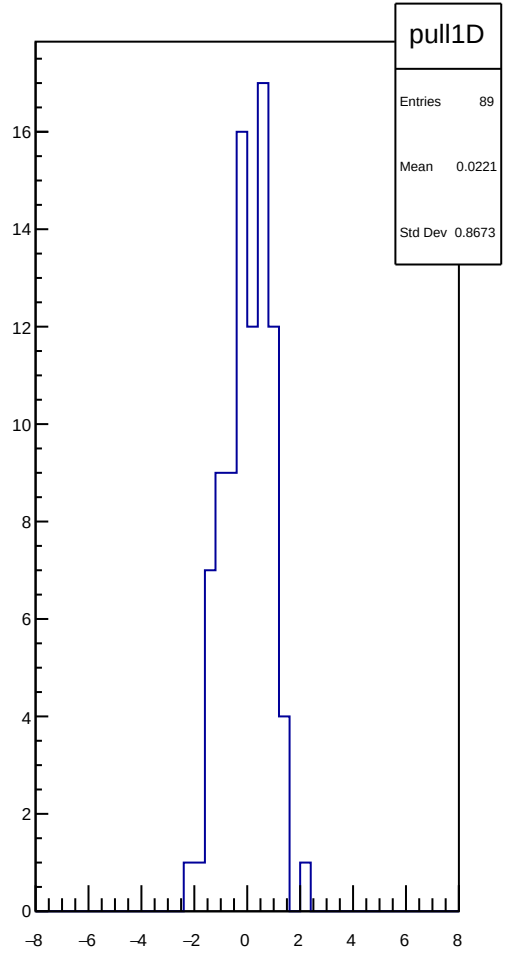

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 8921 / 88
p0 1390 ± 1.059
1700
1600
1500
1400
1300
1200

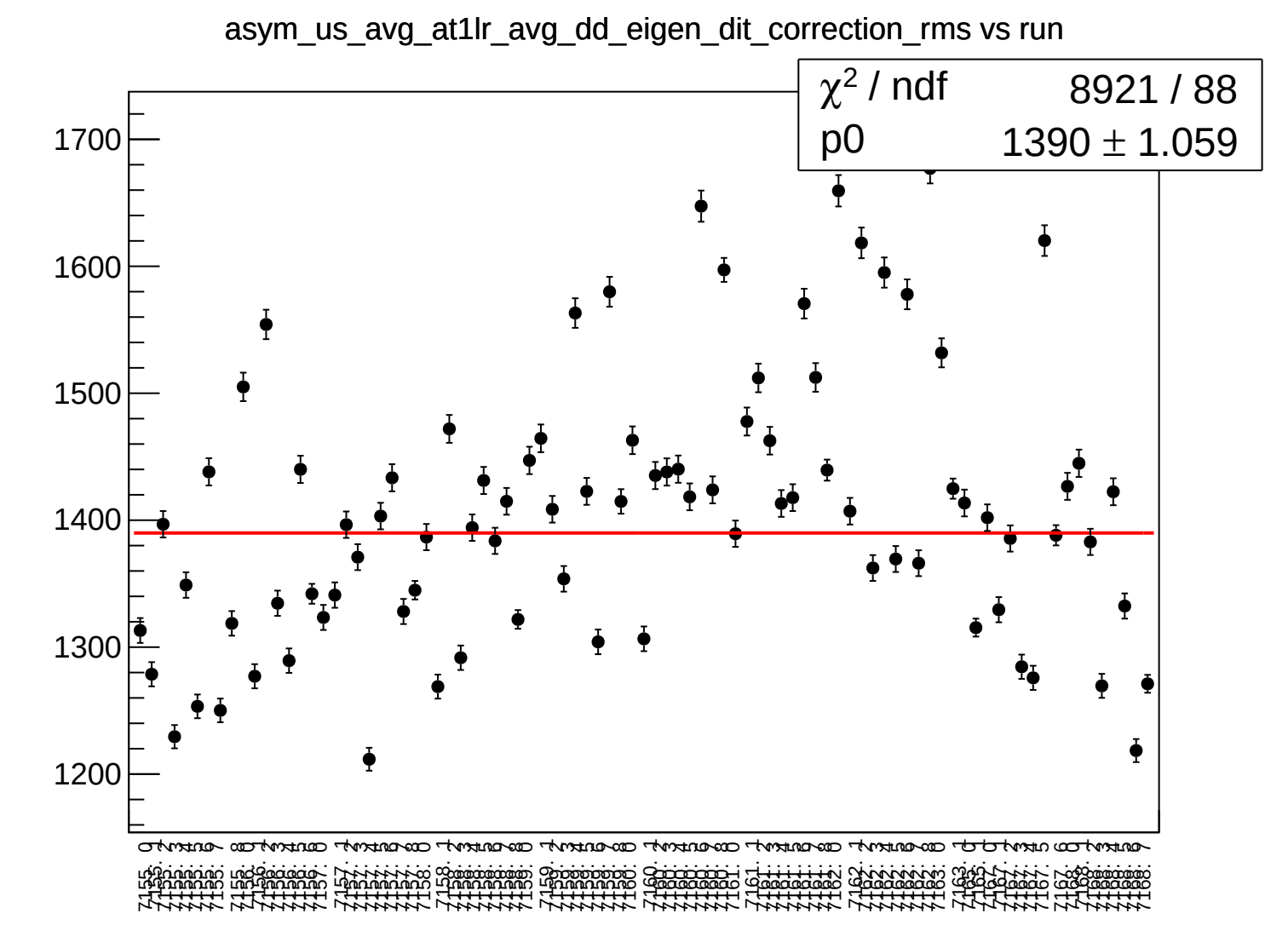

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 105.7 / 88
p0 539.3 ± 1866
pull
Entries 89
Mean 3671
Std Dev 0

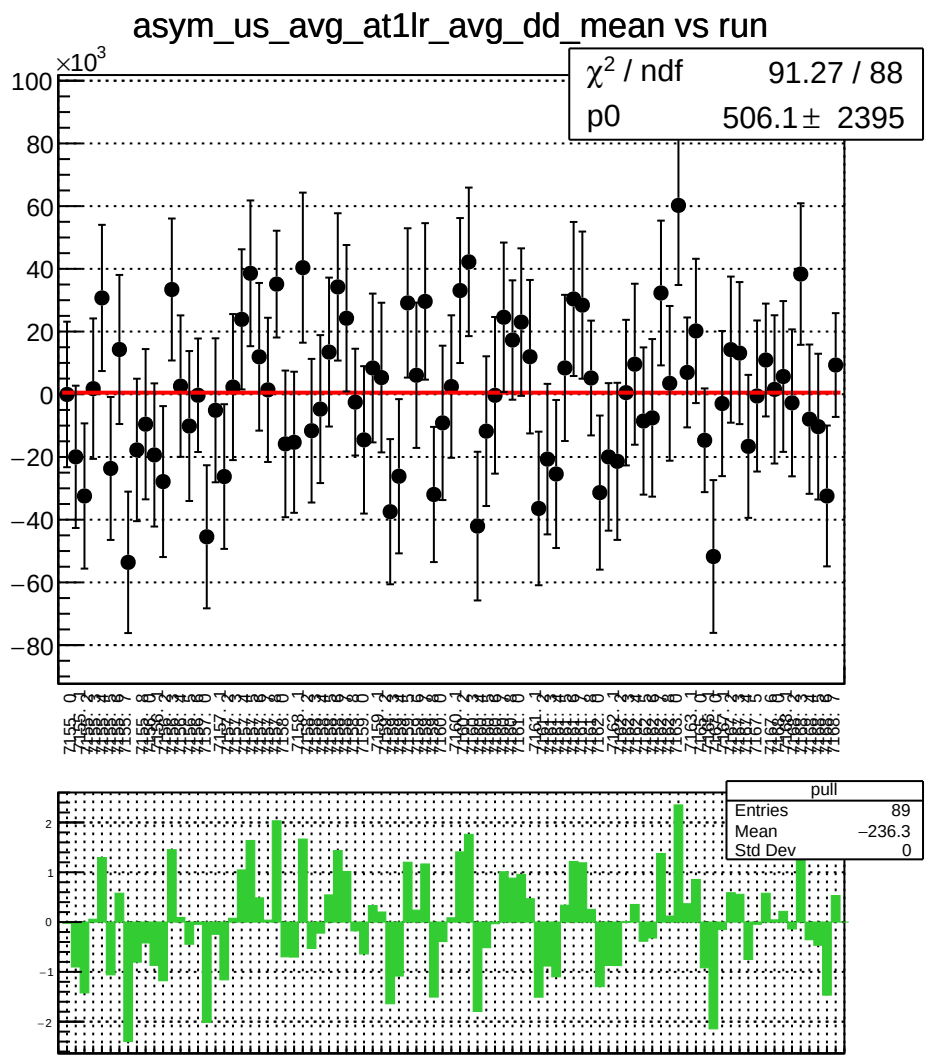

pull1D
Entries 89
Mean 0.0005792
Std Dev 1.09

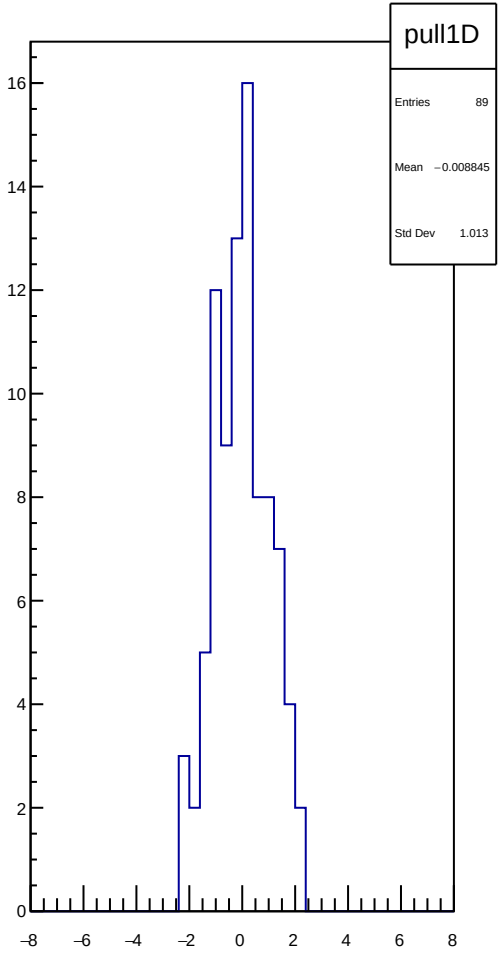

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 101.3 / 88
p0 1736 ± 1.319
1780
1760
1740
1720
1700

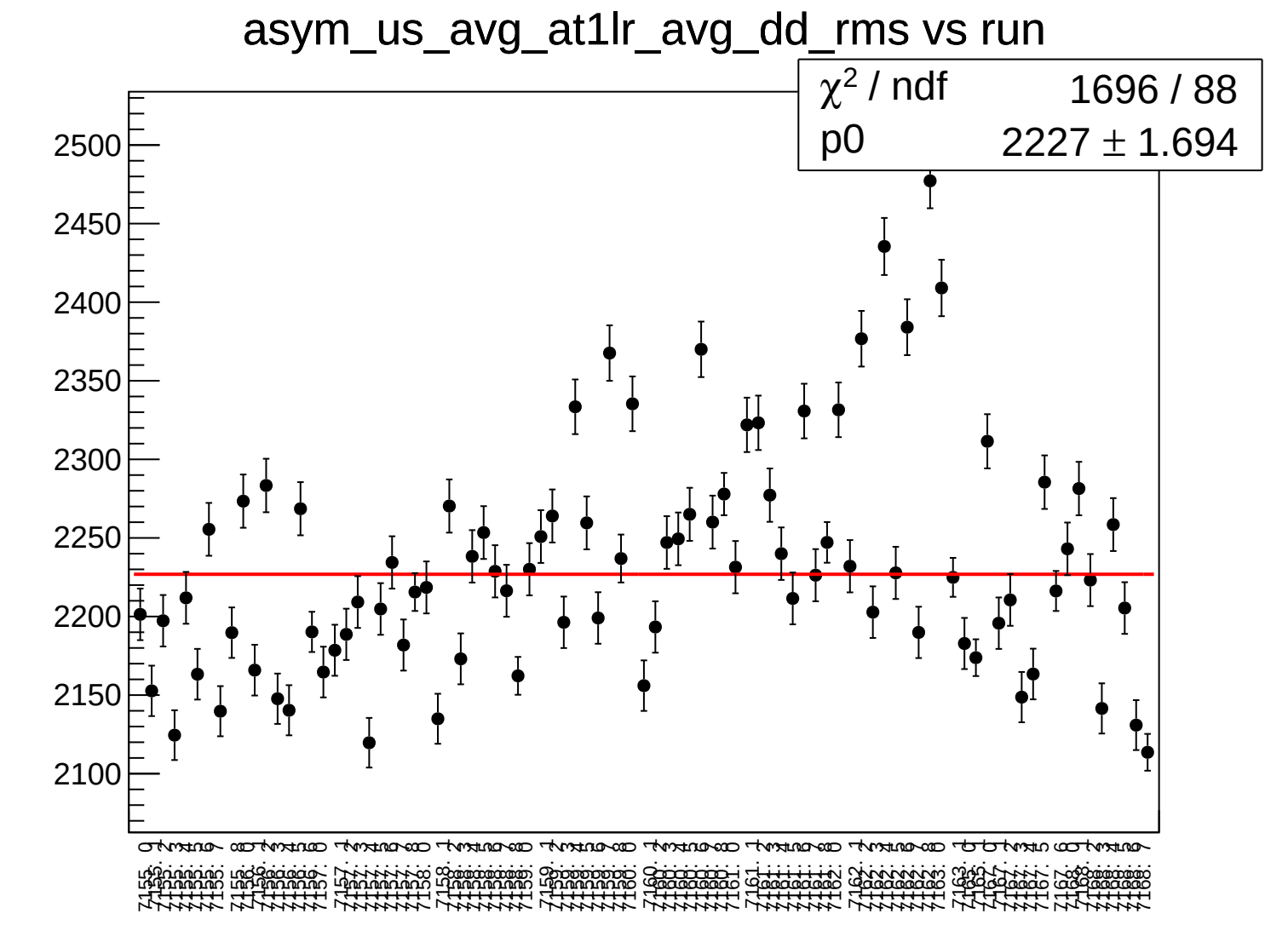

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.99 / 88
p0 −178.6 ± 1498
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −11.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

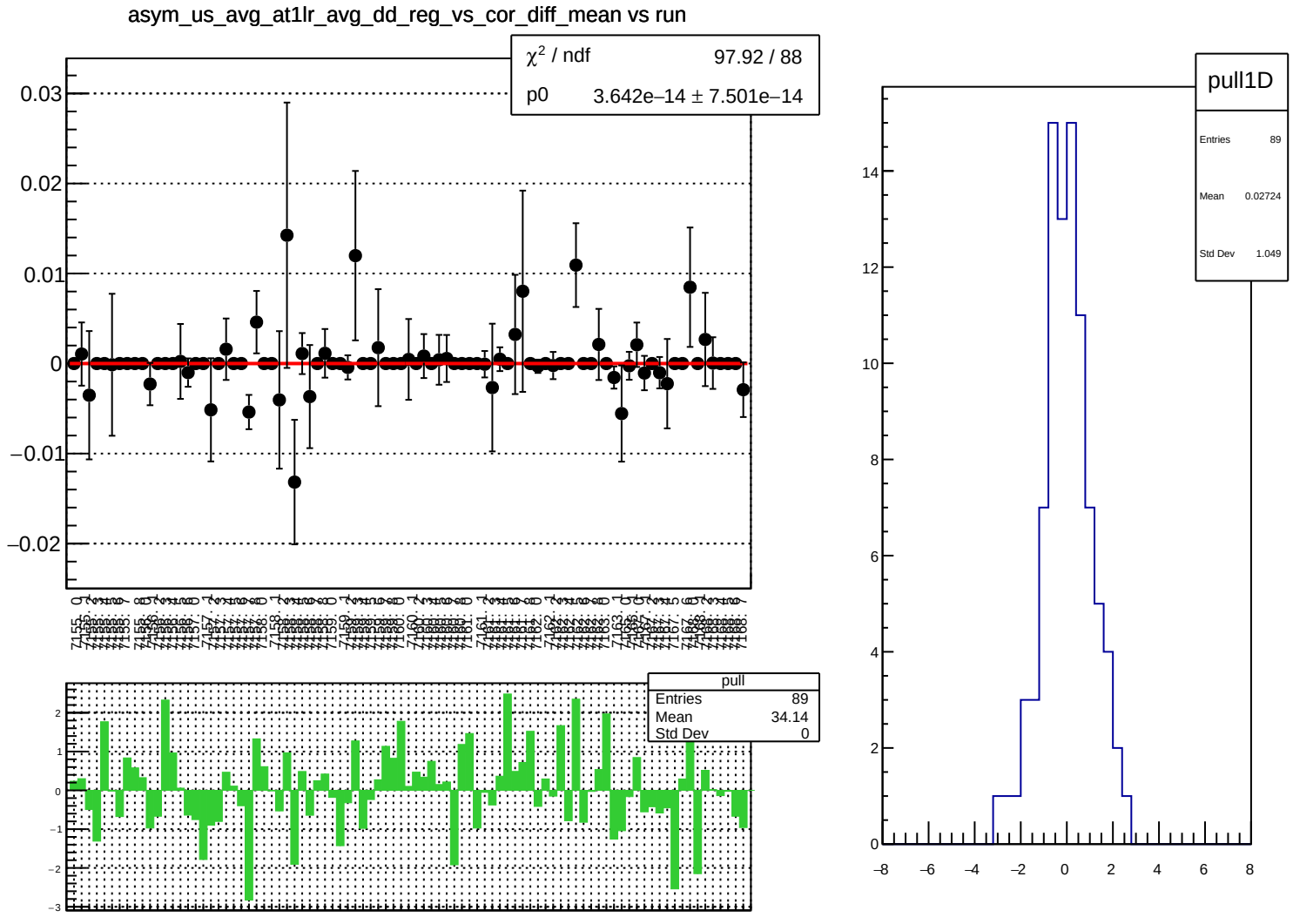

pull1D
Entries 89
Mean 0.0221
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

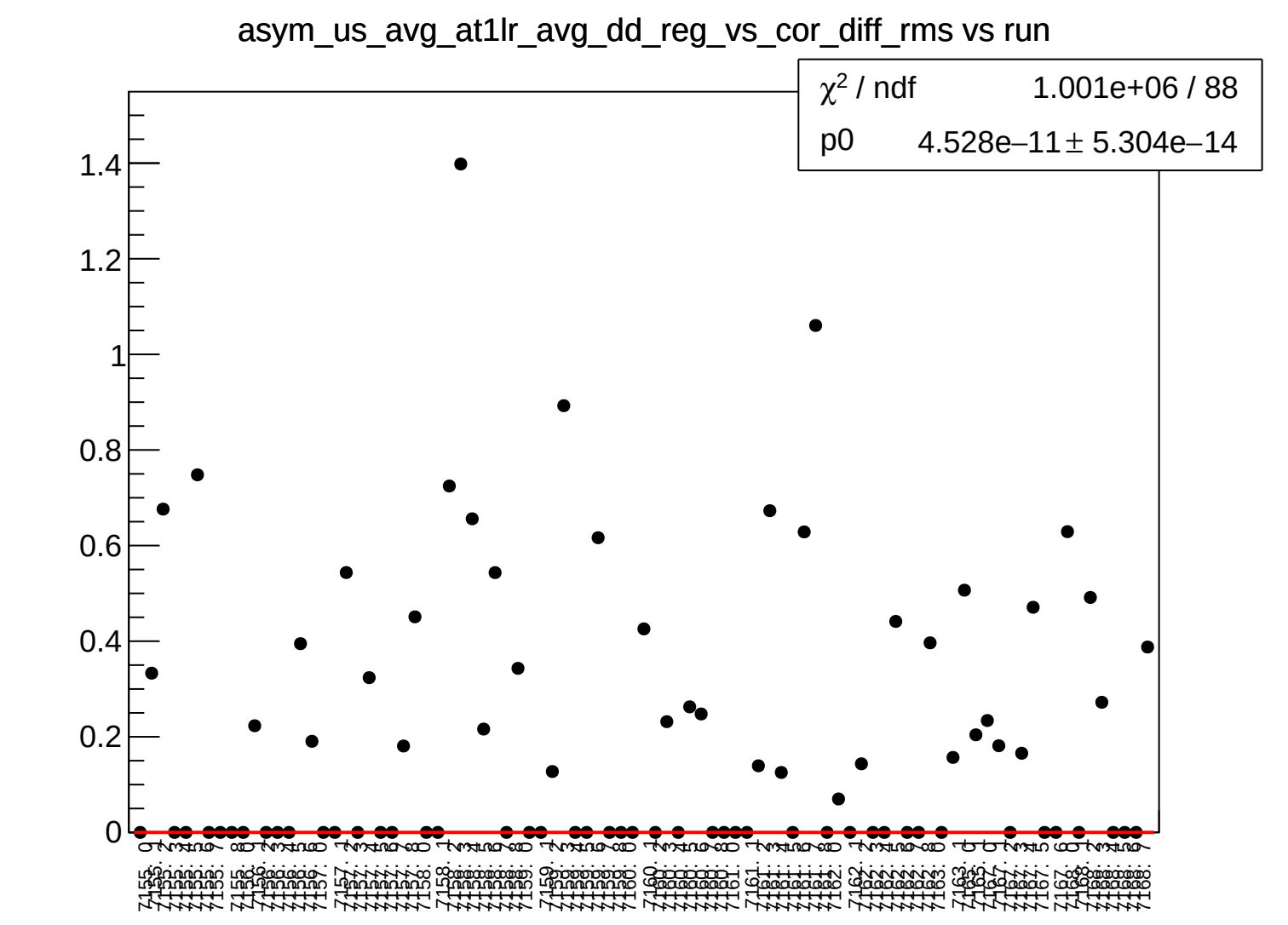

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8921 / 88
p0 1390 ± 1.059
1700
1600
1500
1400
1300
1200

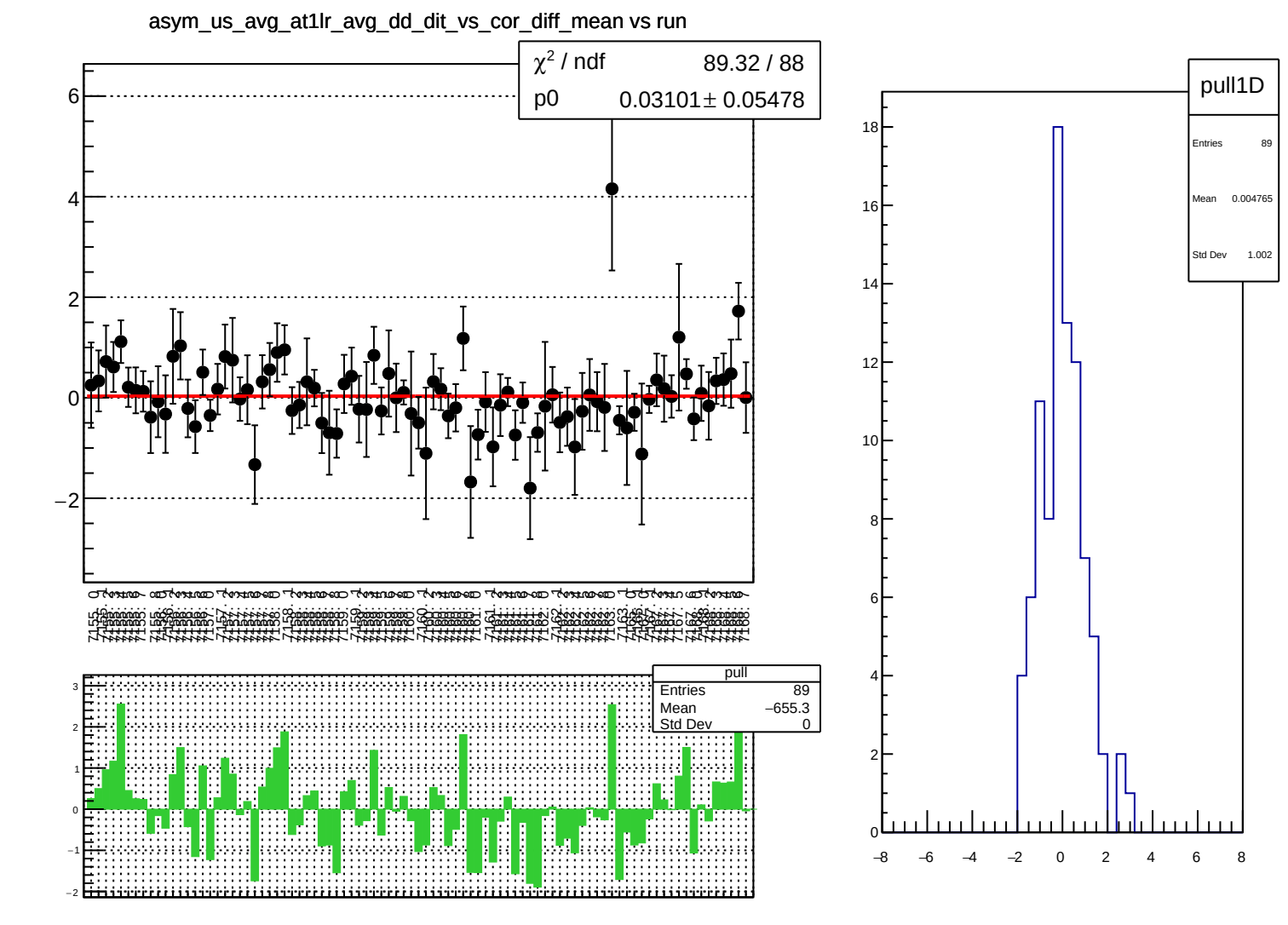

asym_us_avg_at1lr_avg_dd_mean vs run
χ^2 / ndf 91.27 / 88
p0 506.1 ± 2395
×10^3
pull
Entries 89
Mean −236.3
Std Dev 0

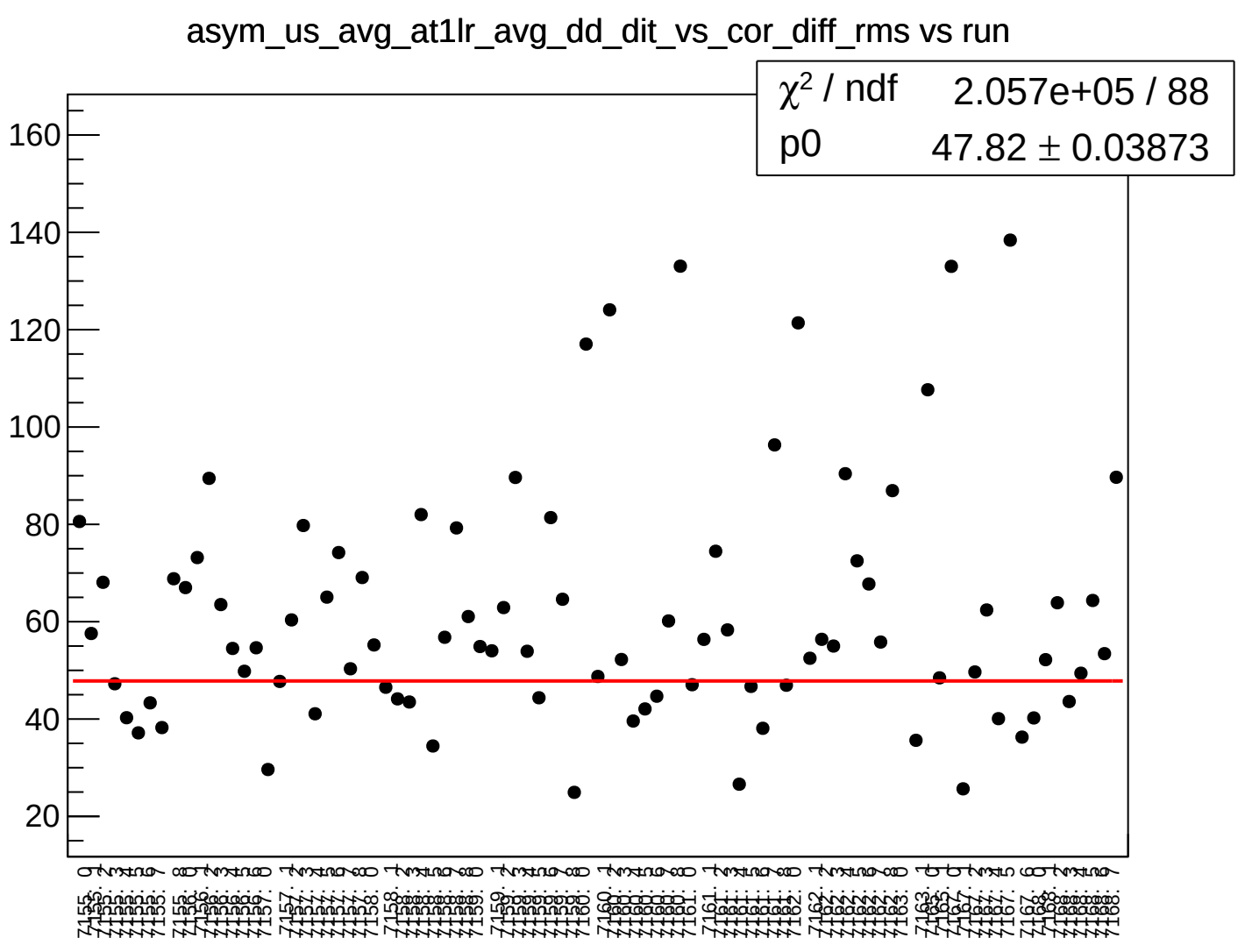

pull1D
Entries 89
Mean −0.008845
Std Dev 1.013

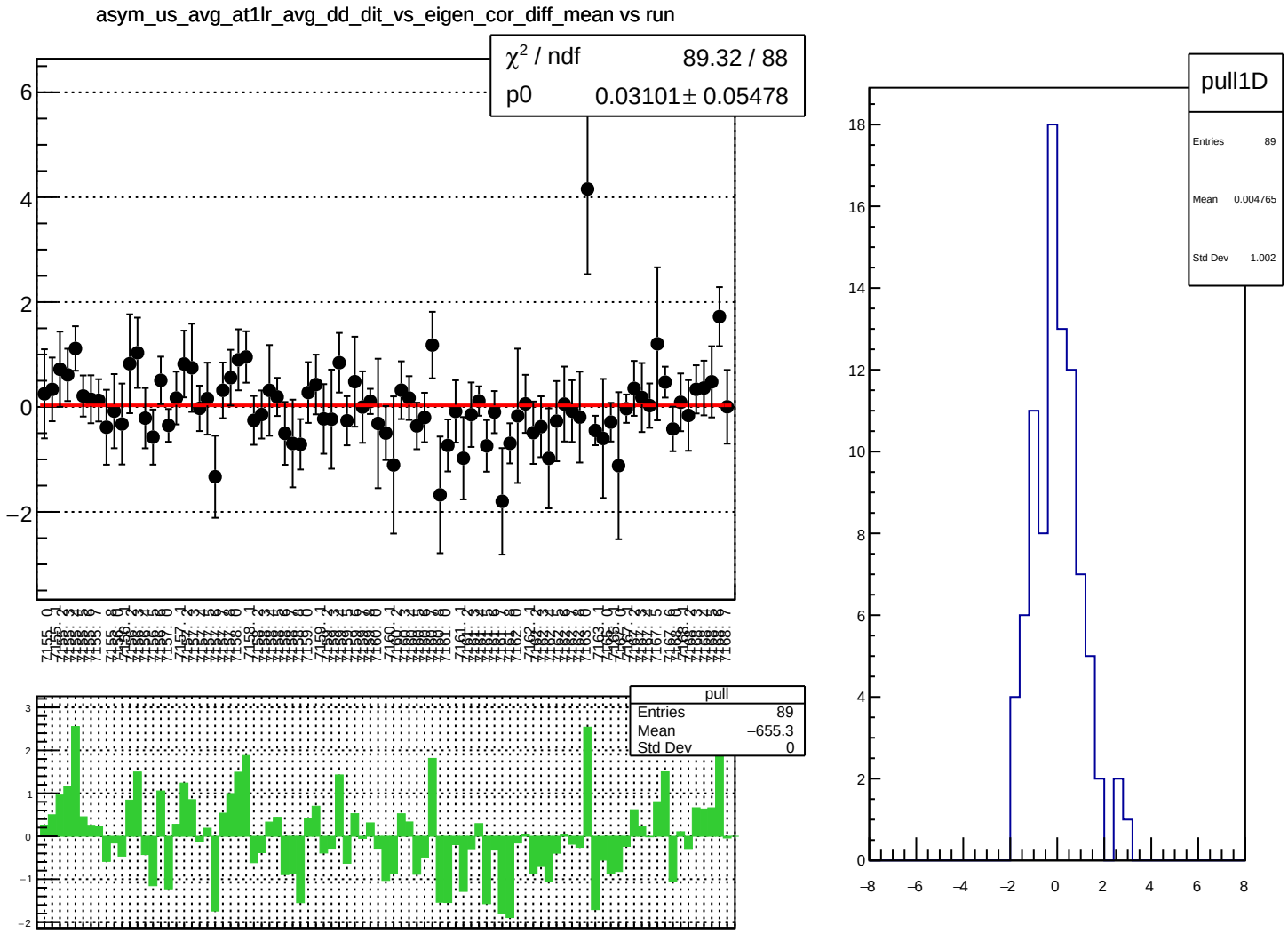

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1696 / 88
p0 2227 ± 1.694
2500
2450
2400
2350
2300
2250
2200
2150
2100

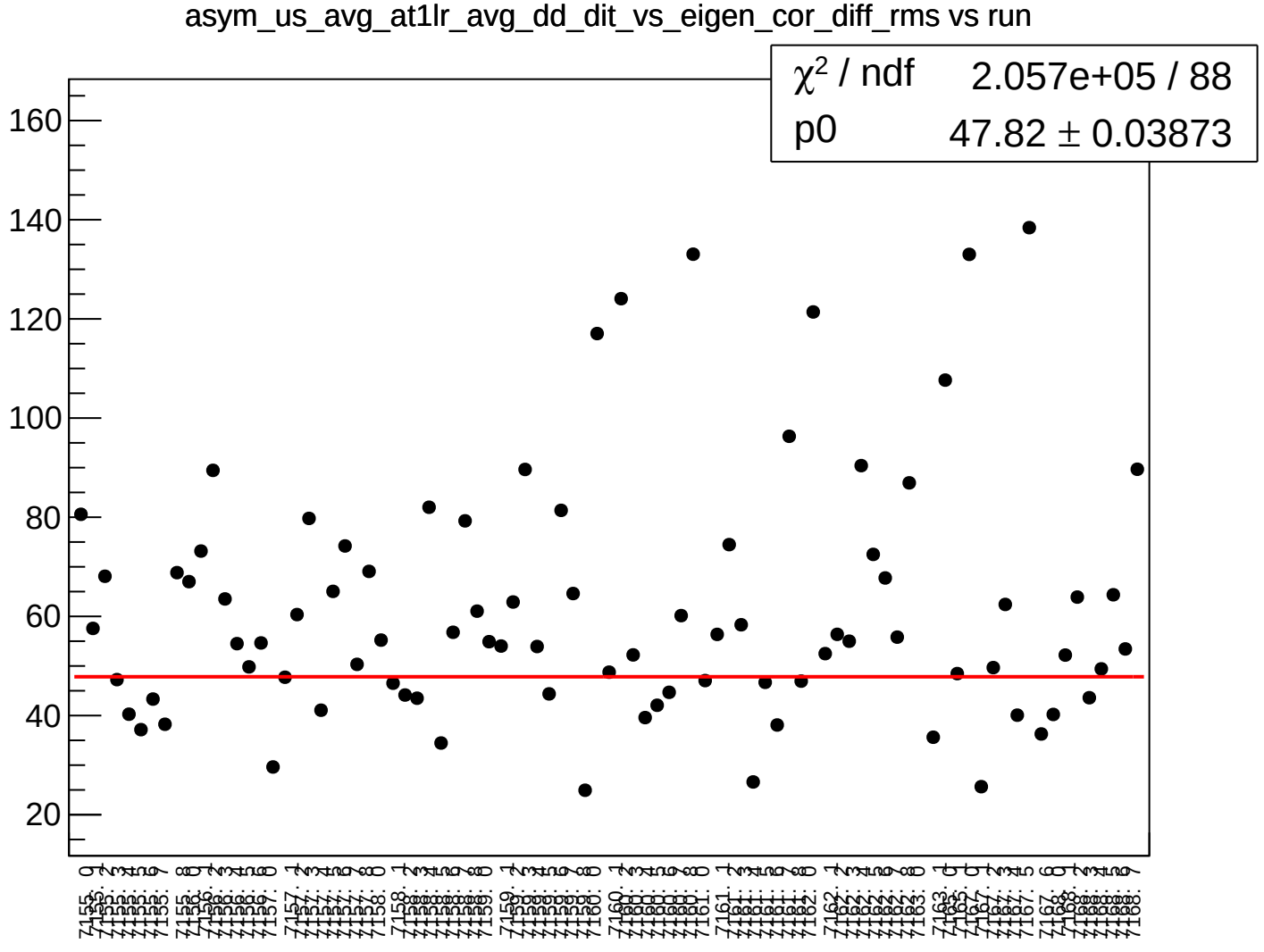

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 97.92 / 88
p0 3.642e−14 ± 7.501e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 34.14
Std Dev 0
pull1D
Entries 89
Mean 0.02724
Std Dev 1.049

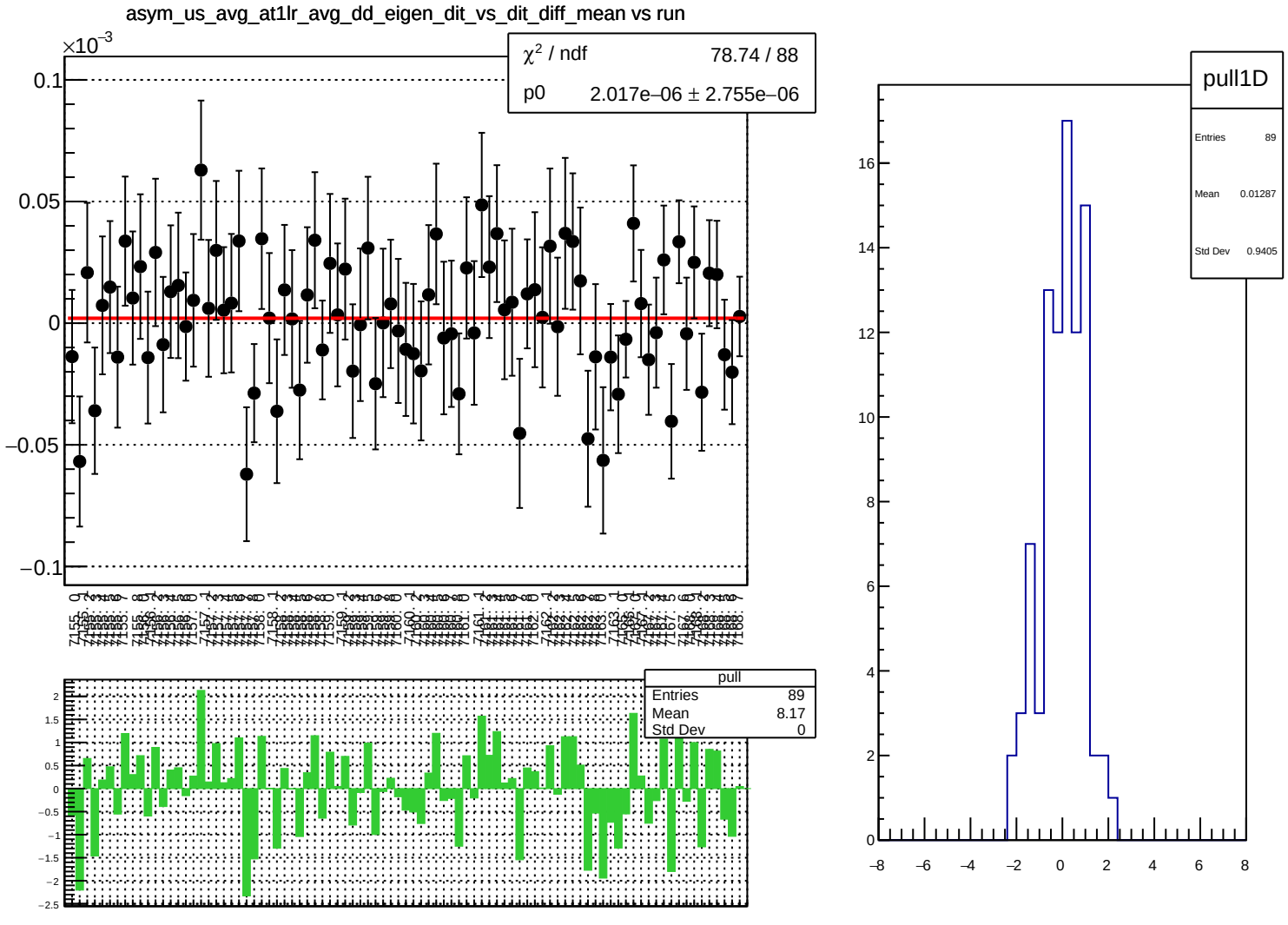

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.001e+06 / 88
p0 4.528e−11 ± 5.304e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

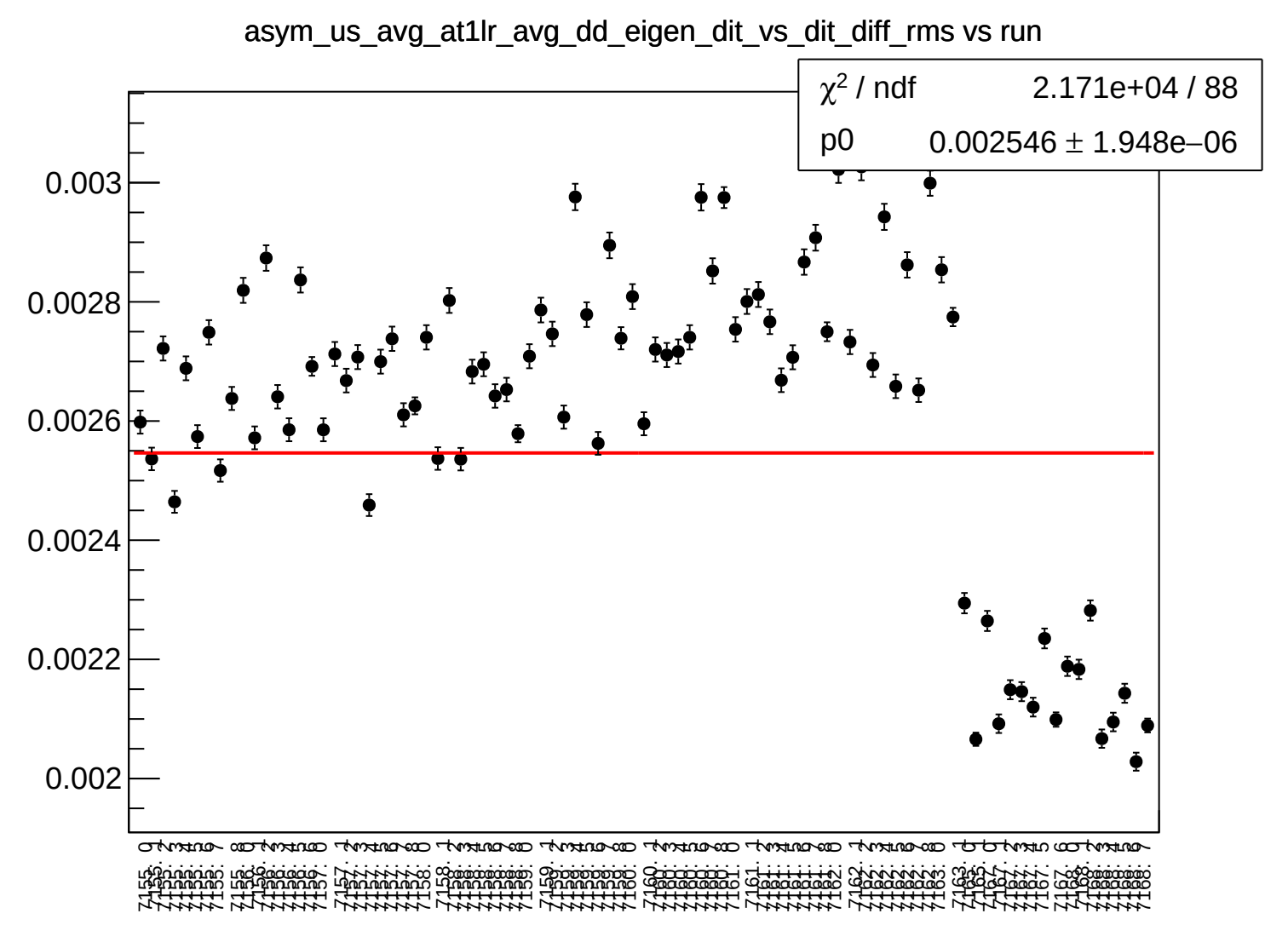

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.32 / 88
p0 0.03101 ± 0.05478
pull
Entries 89
Mean −655.3
Std Dev 0
pull1D
Entries 89
Mean 0.004765
Std Dev 1.002

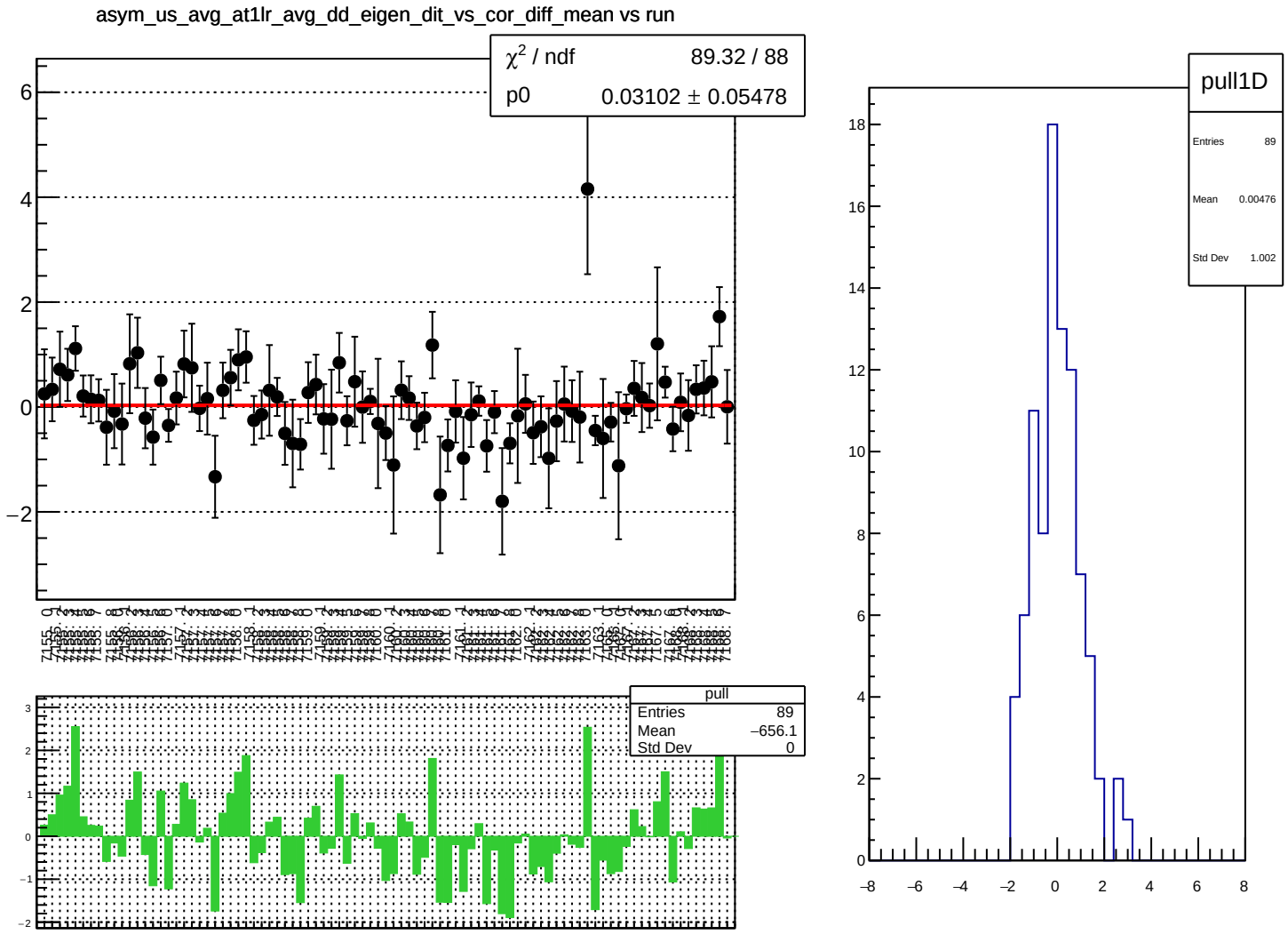

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 47.82 ± 0.03873
160
140
120
100
80
60
40
20

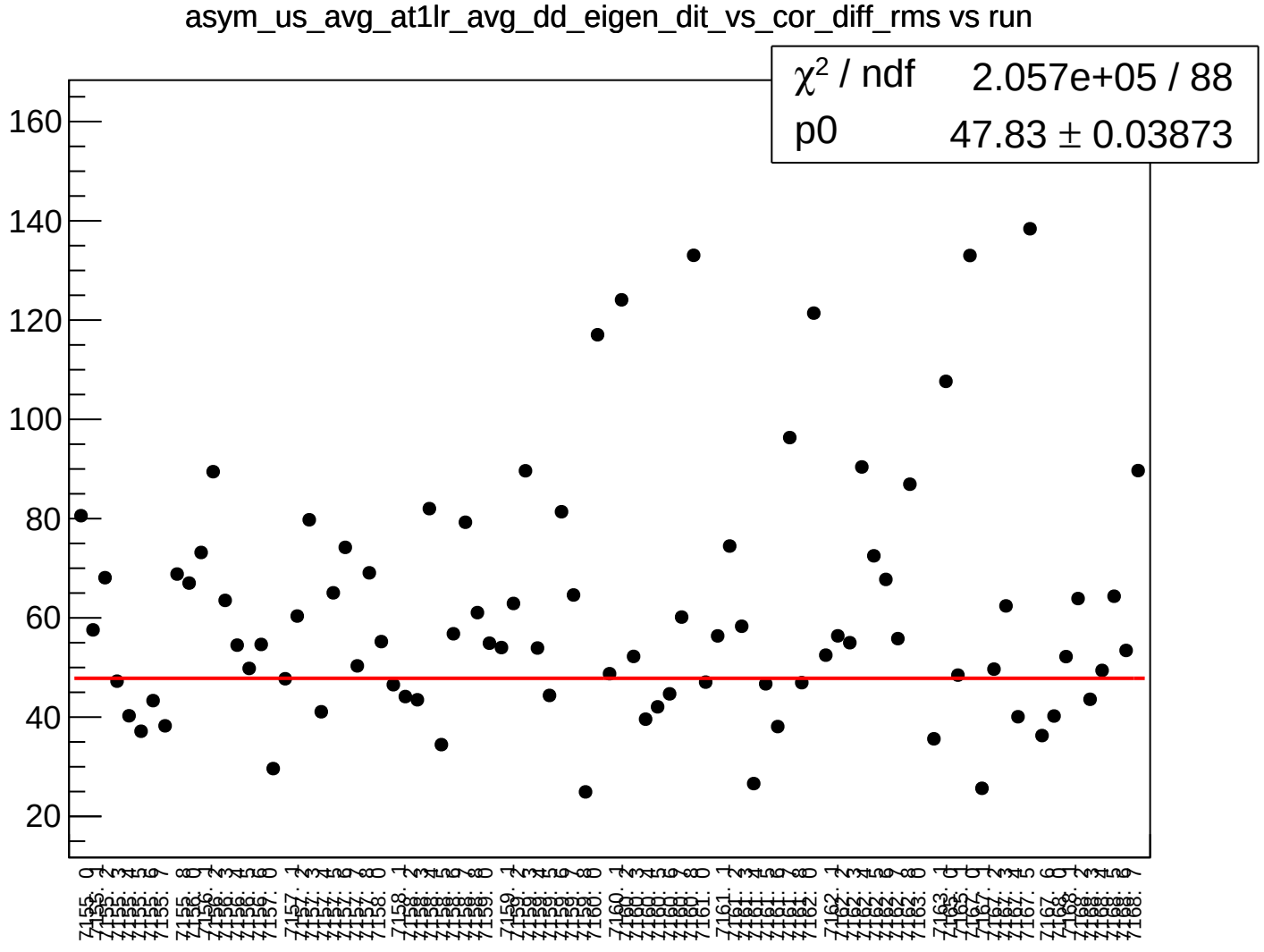

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.32 / 88
p0 0.03101 ± 0.05478
pull
Entries 89
Mean −655.3
Std Dev 0
pull1D
Entries 89
Mean 0.004765
Std Dev 1.002

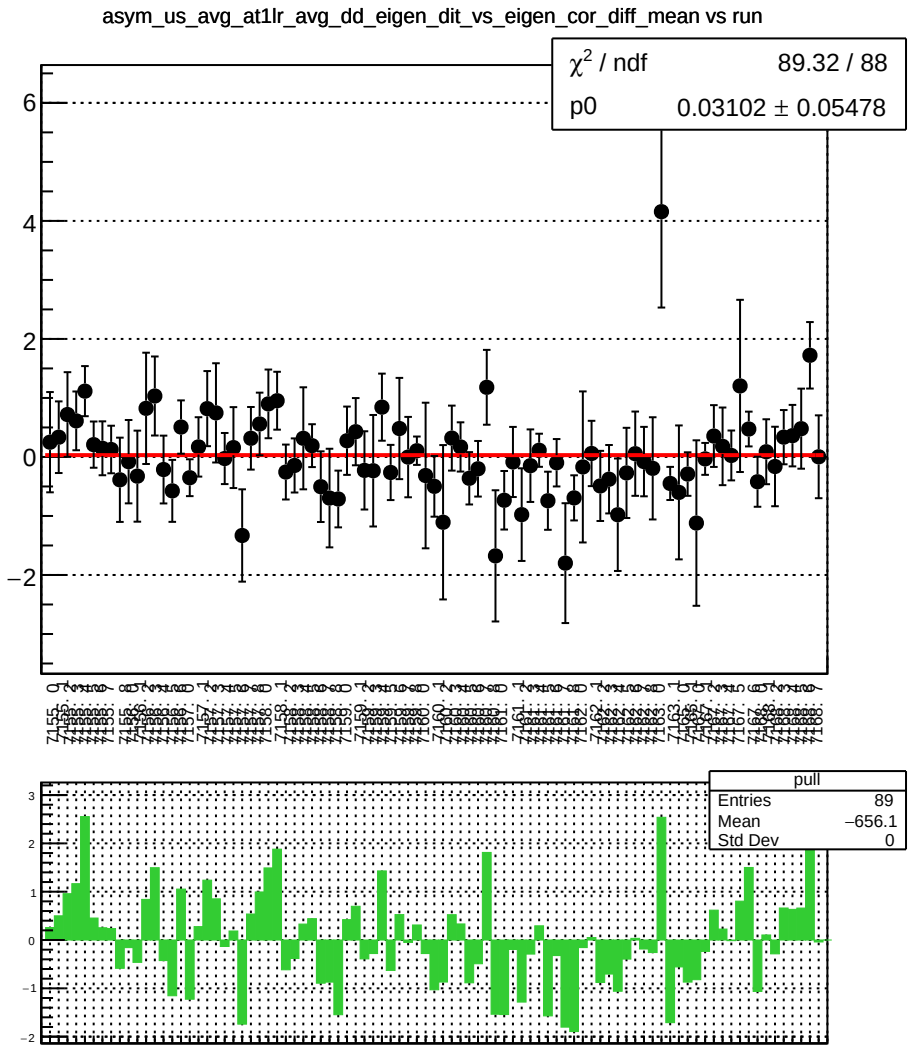

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 47.82 ± 0.03873
160
140
120
100
80
60
40
20

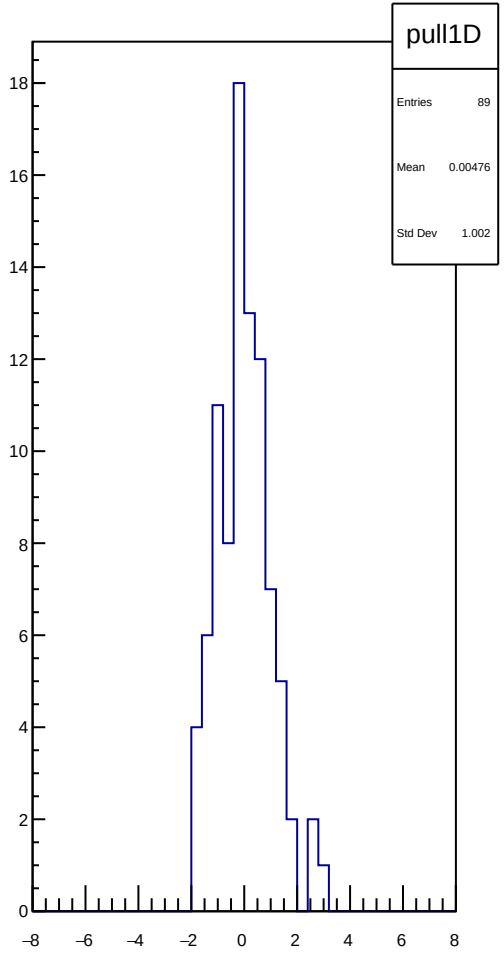

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 78.74 / 88
p0 2.017e−06 ± 2.755e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 8.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.01287
Std Dev 0.9405
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

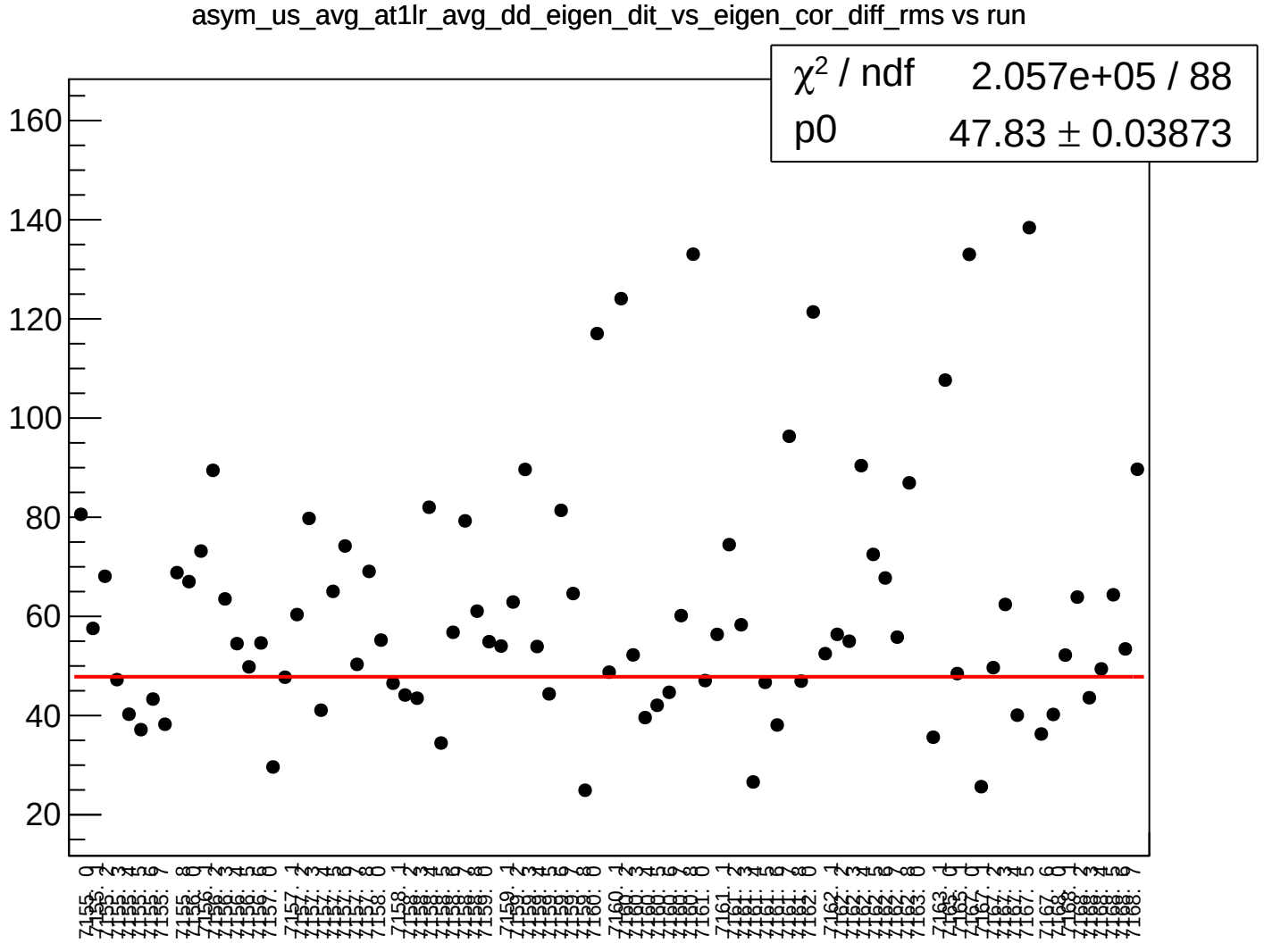

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.171e+04 / 88
p0 0.002546 ± 1.948e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

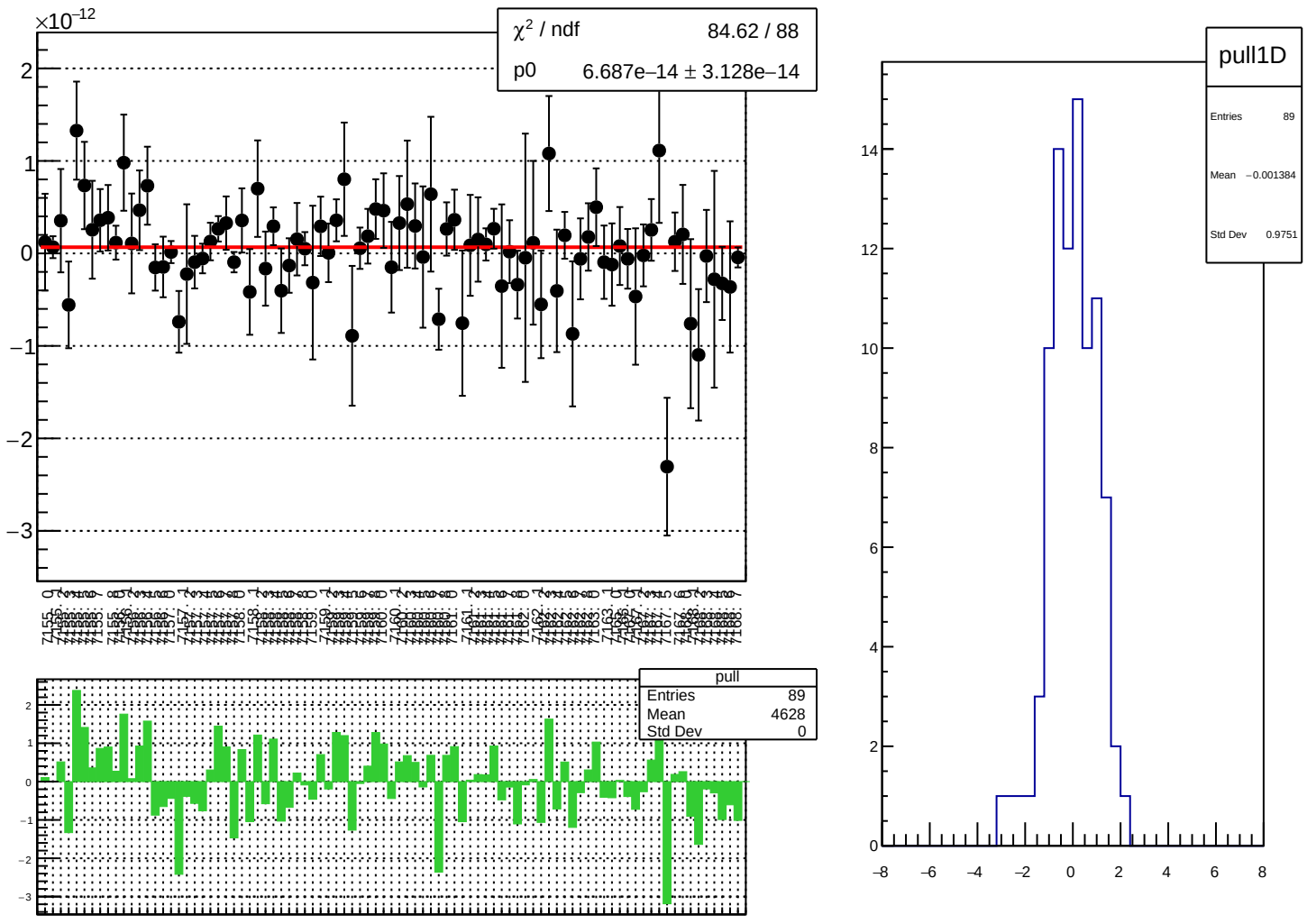

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.32 / 88
p0 0.03102 ± 0.05478
pull
Entries 89
Mean −656.1
Std Dev 0
pull1D
Entries 89
Mean 0.00476
Std Dev 1.002

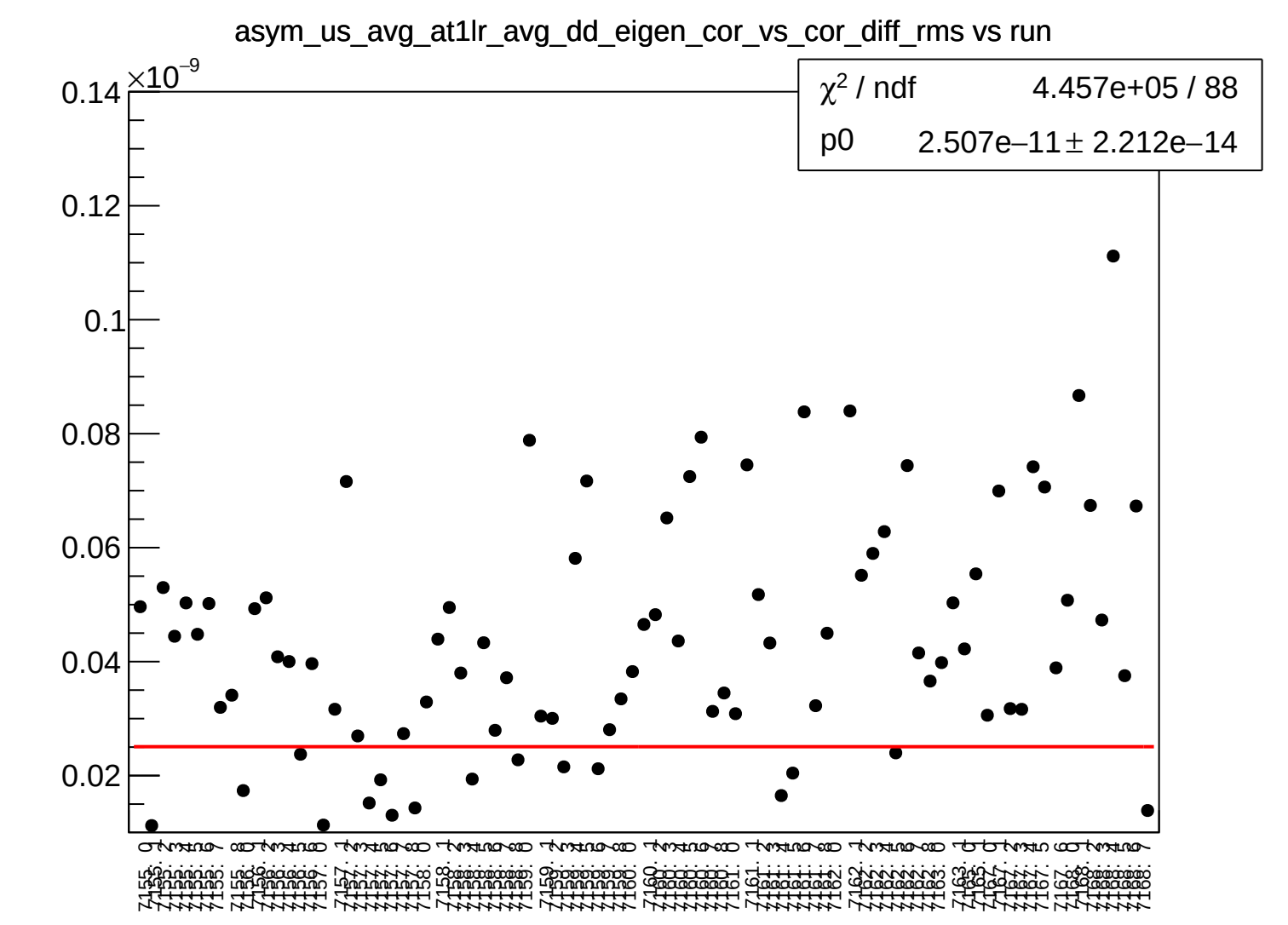

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 47.83 ± 0.03873
160
140
120
100
80
60
40
20

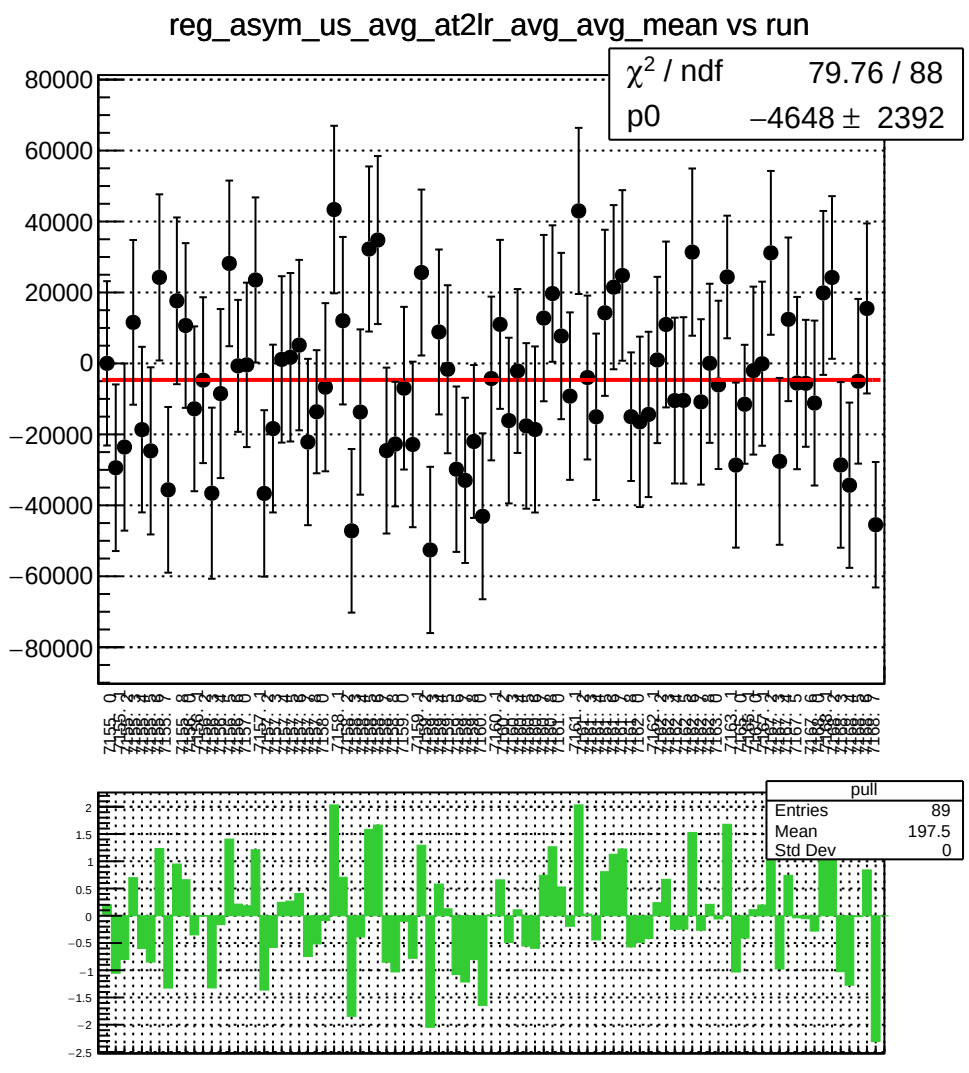

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.32 / 88
p0 0.03102 ± 0.05478
pull
Entries 89
Mean −656.1
Std Dev 0

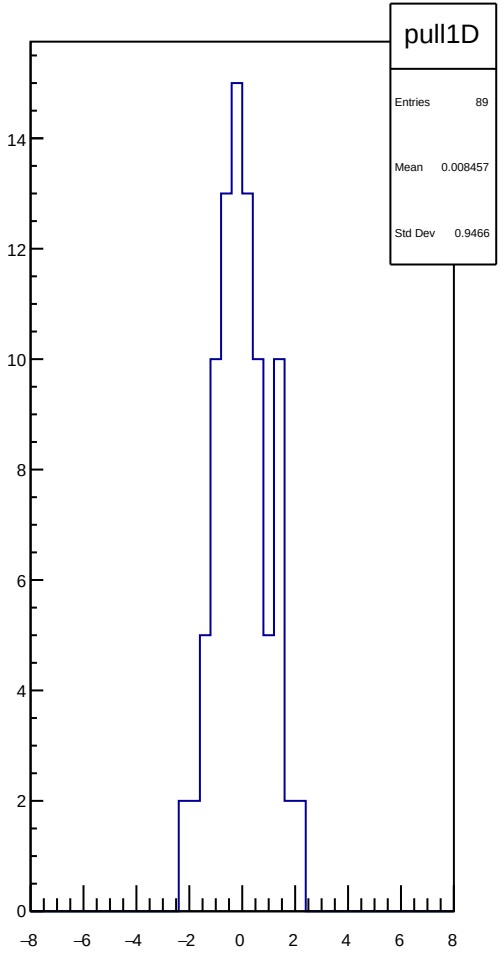

pull1D
Entries 89
Mean 0.00476
Std Dev 1.002

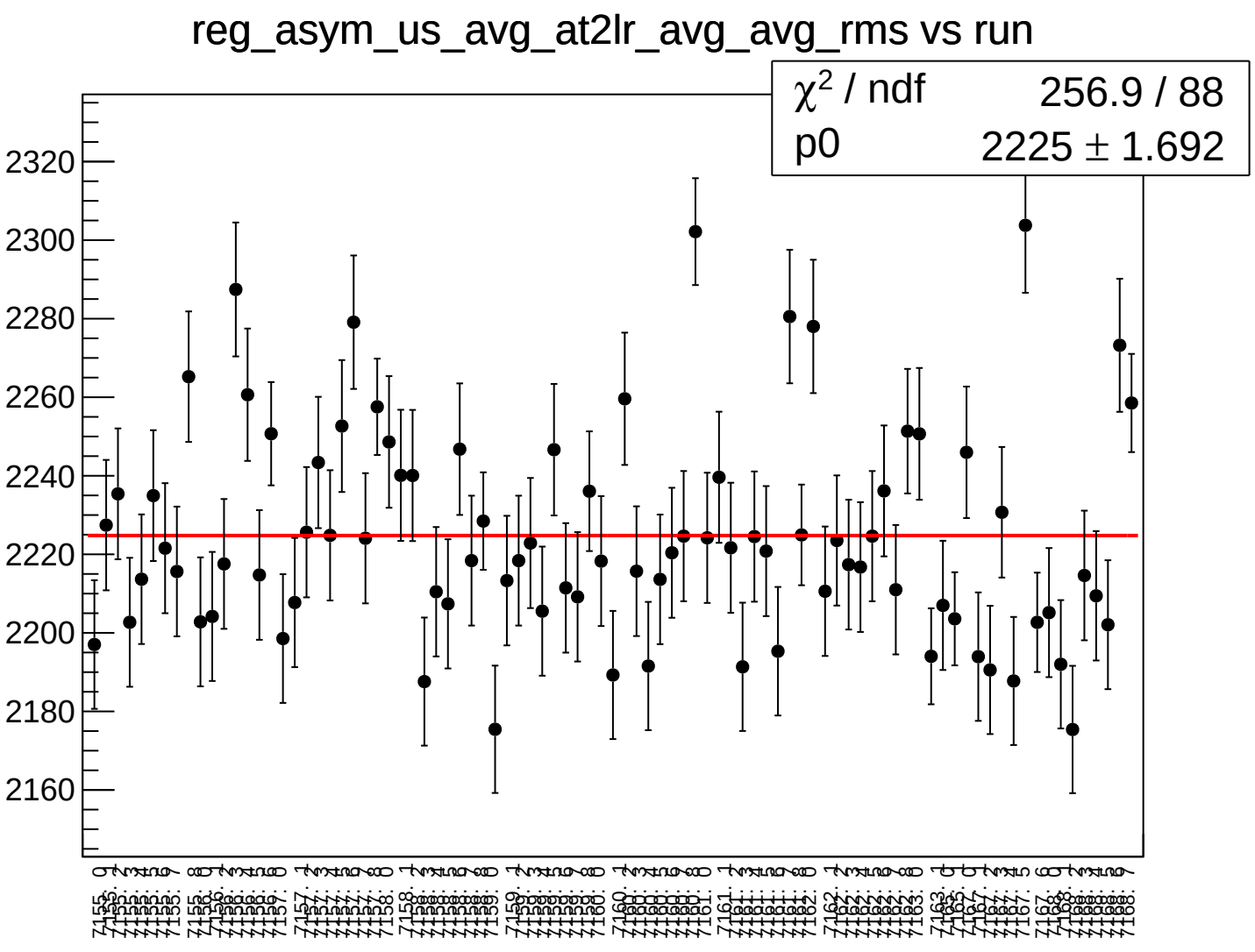

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.057e+05 / 88
p0 47.83 ± 0.03873
160
140
120
100
80
60
40
20

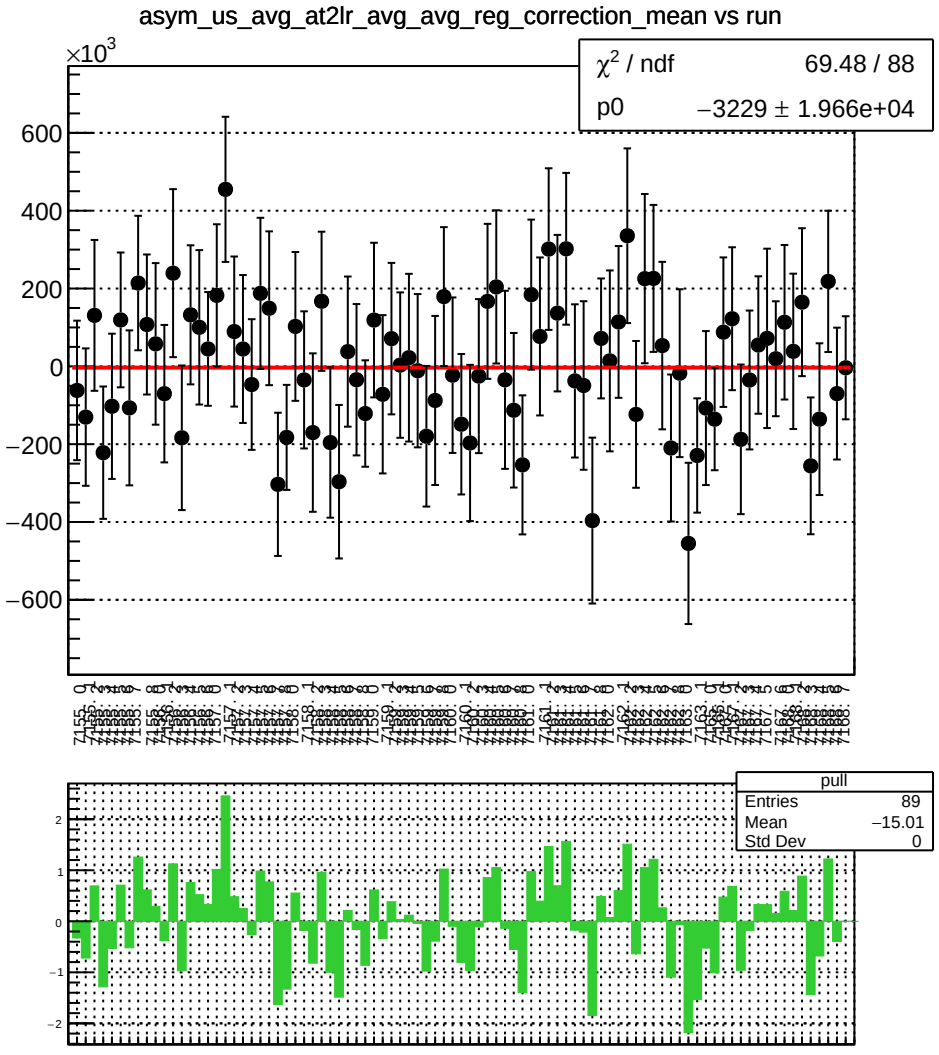

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.62 / 88
p0 6.687e−14 ± 3.128e−14
pull
Entries 89
Mean 4628
Std Dev 0
pull1D
Entries 89
Mean −0.001384
Std Dev 0.9751

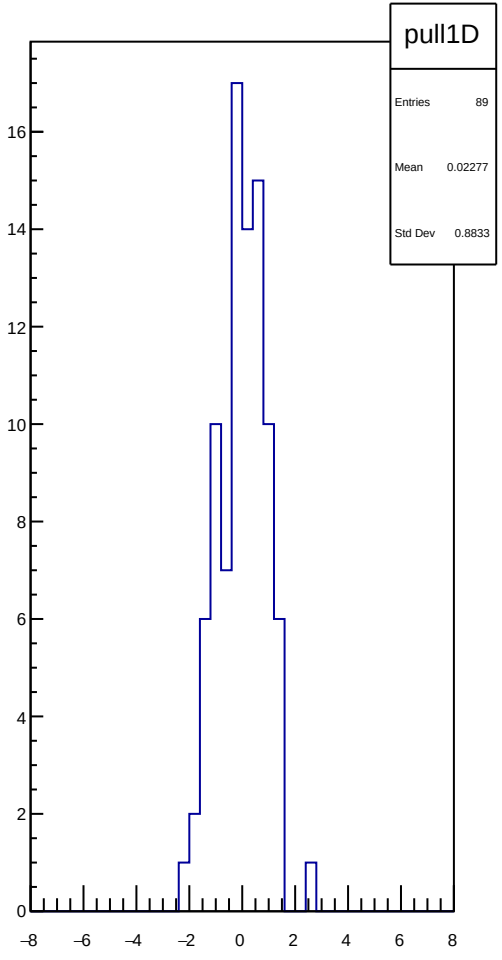

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-9}$
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ^2 / ndf 4.457e+05 / 88
p0 2.507e−11 ± 2.212e−14

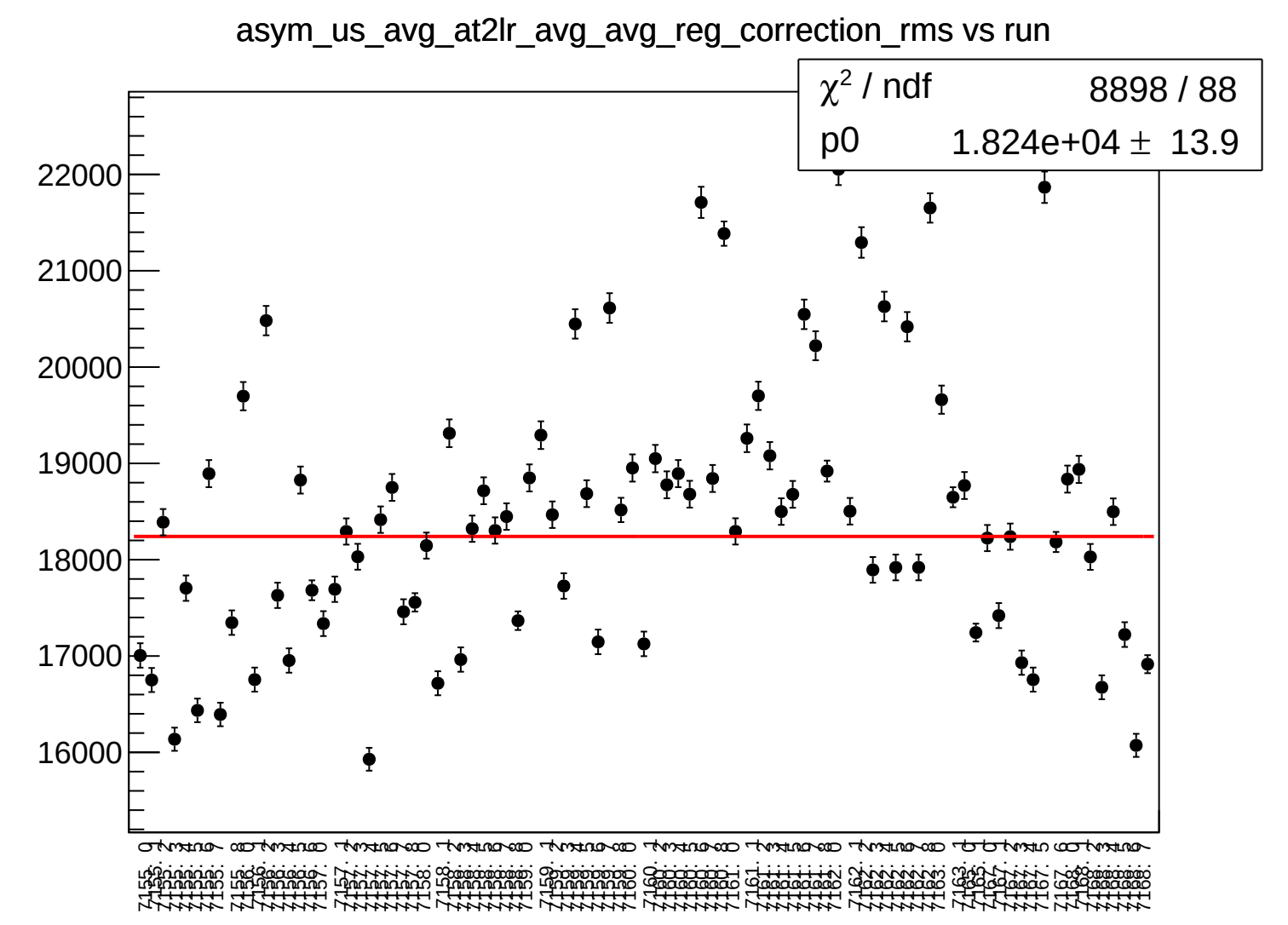

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.76 / 88
p0 −4648 ± 2392
pull
Entries 89
Mean 197.5
Std Dev 0

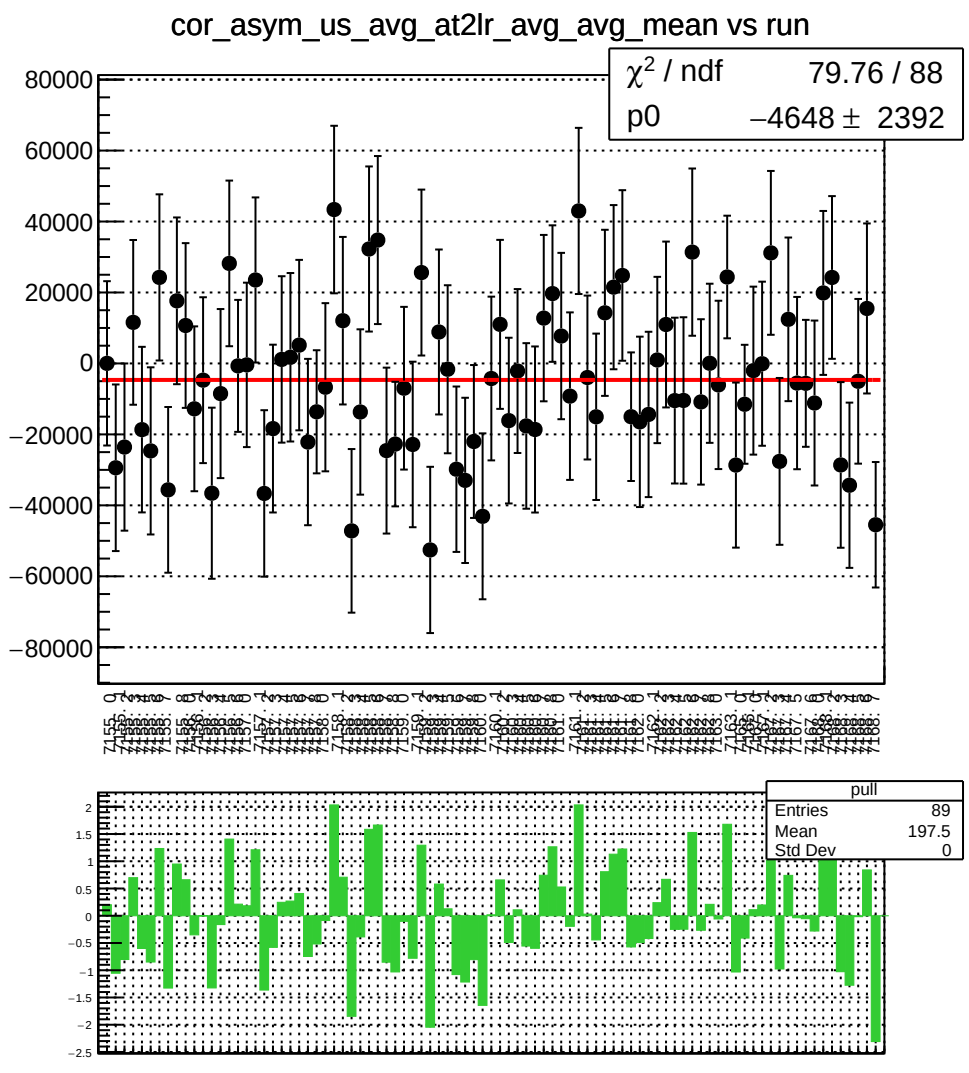

pull1D
Entries 89
Mean 0.008457
Std Dev 0.9466

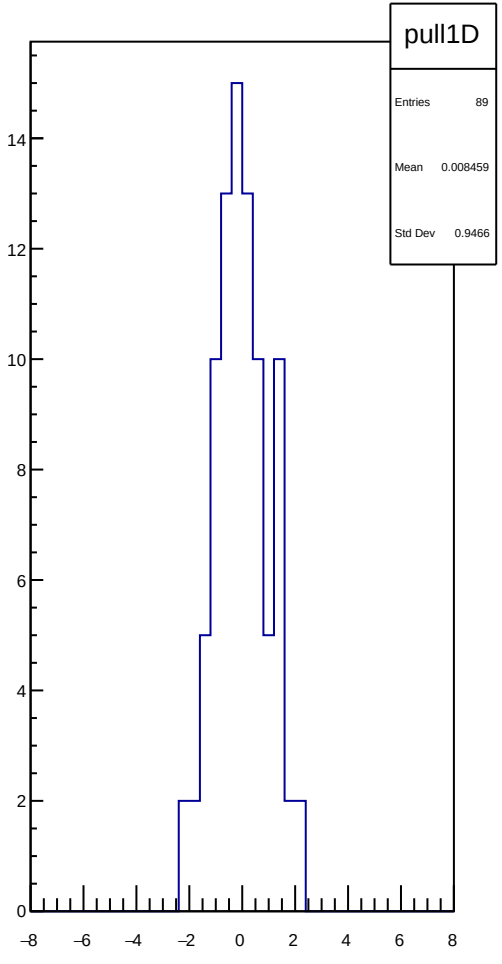

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 256.9 / 88
p0 2225 ± 1.692
2320
2300
2280
2260
2240
2220
2200
2180
2160

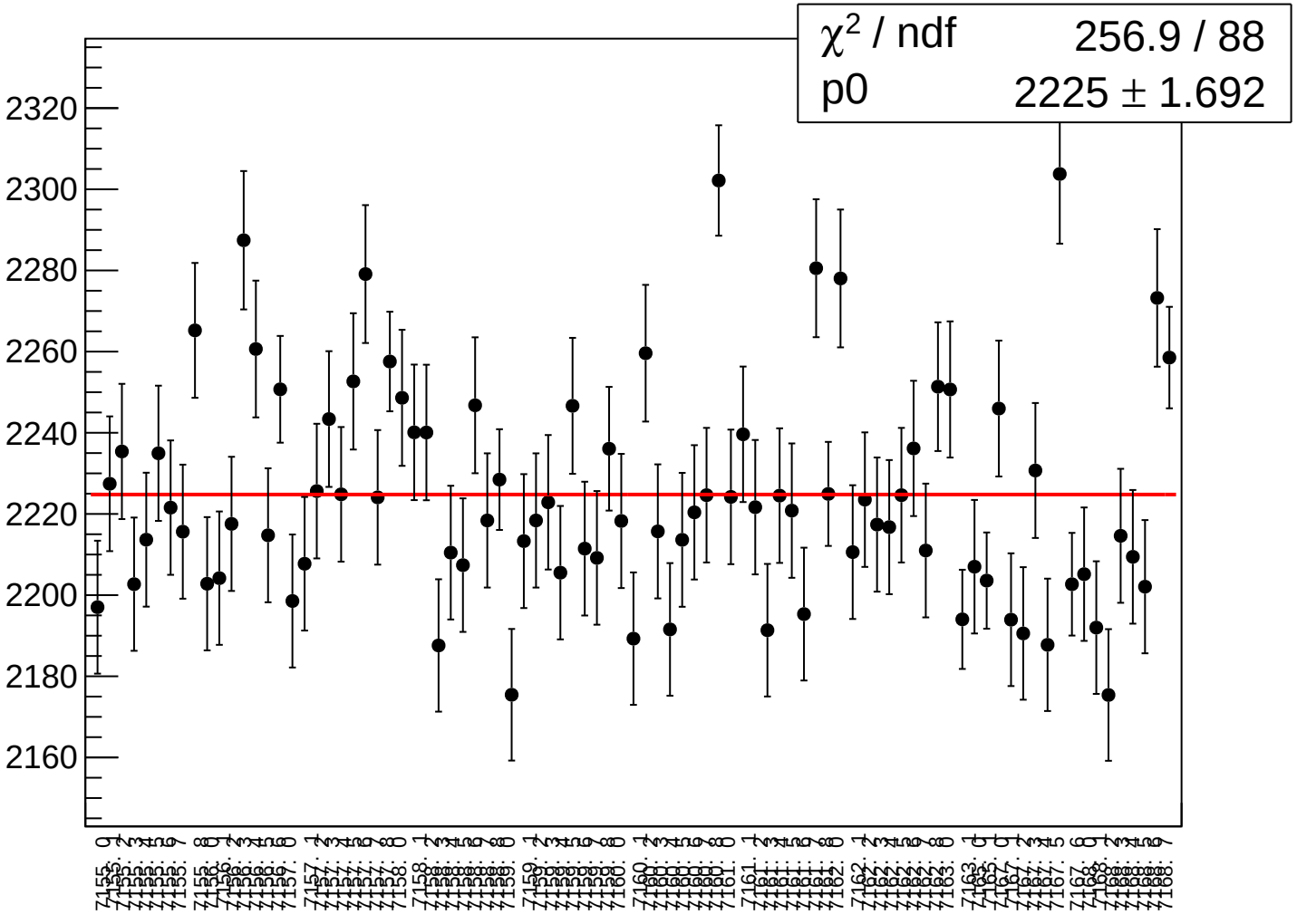

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
χ² / ndf 69.48 / 88
p0 −3229 ± 1.966e+04
×10³
pull
Entries 89
Mean −15.01
Std Dev 0

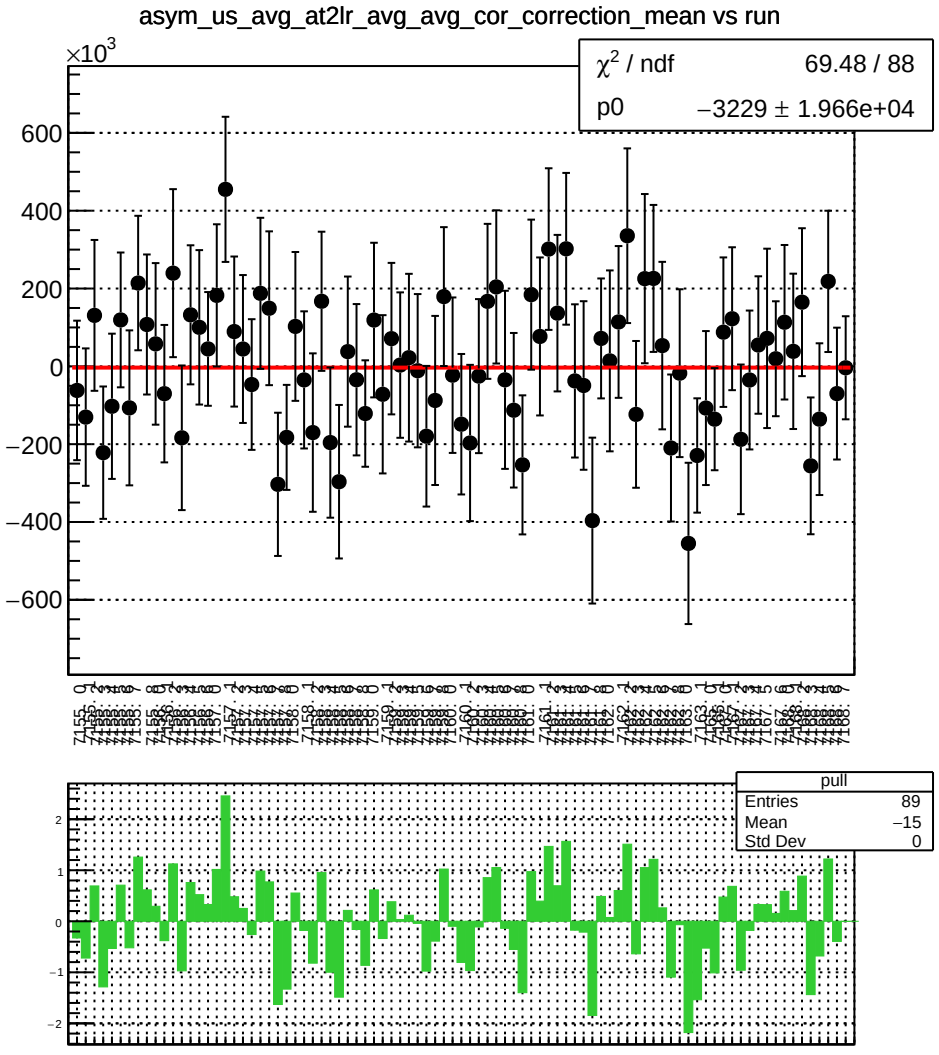

pull1D
Entries 89
Mean 0.02277
Std Dev 0.8833

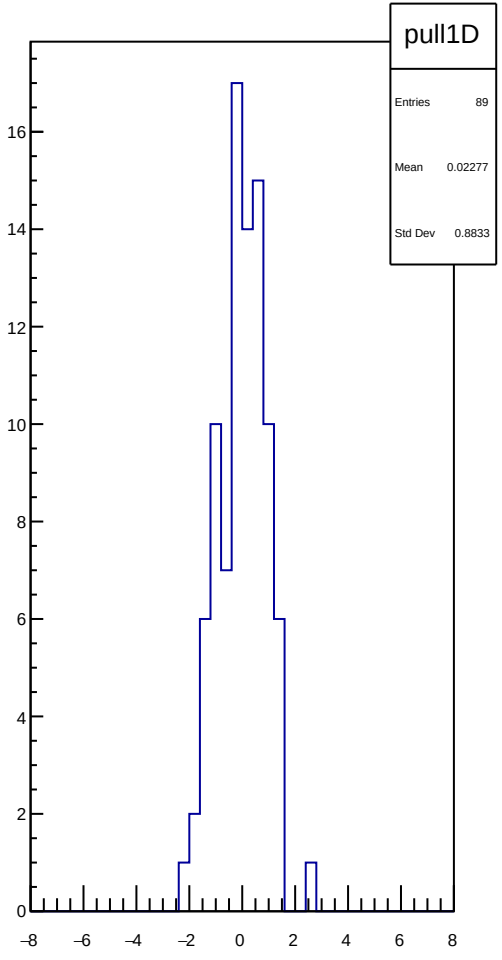

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 8898 / 88
p0 1.824e+04 ± 13.9
22000
21000
20000
19000
18000
17000
16000

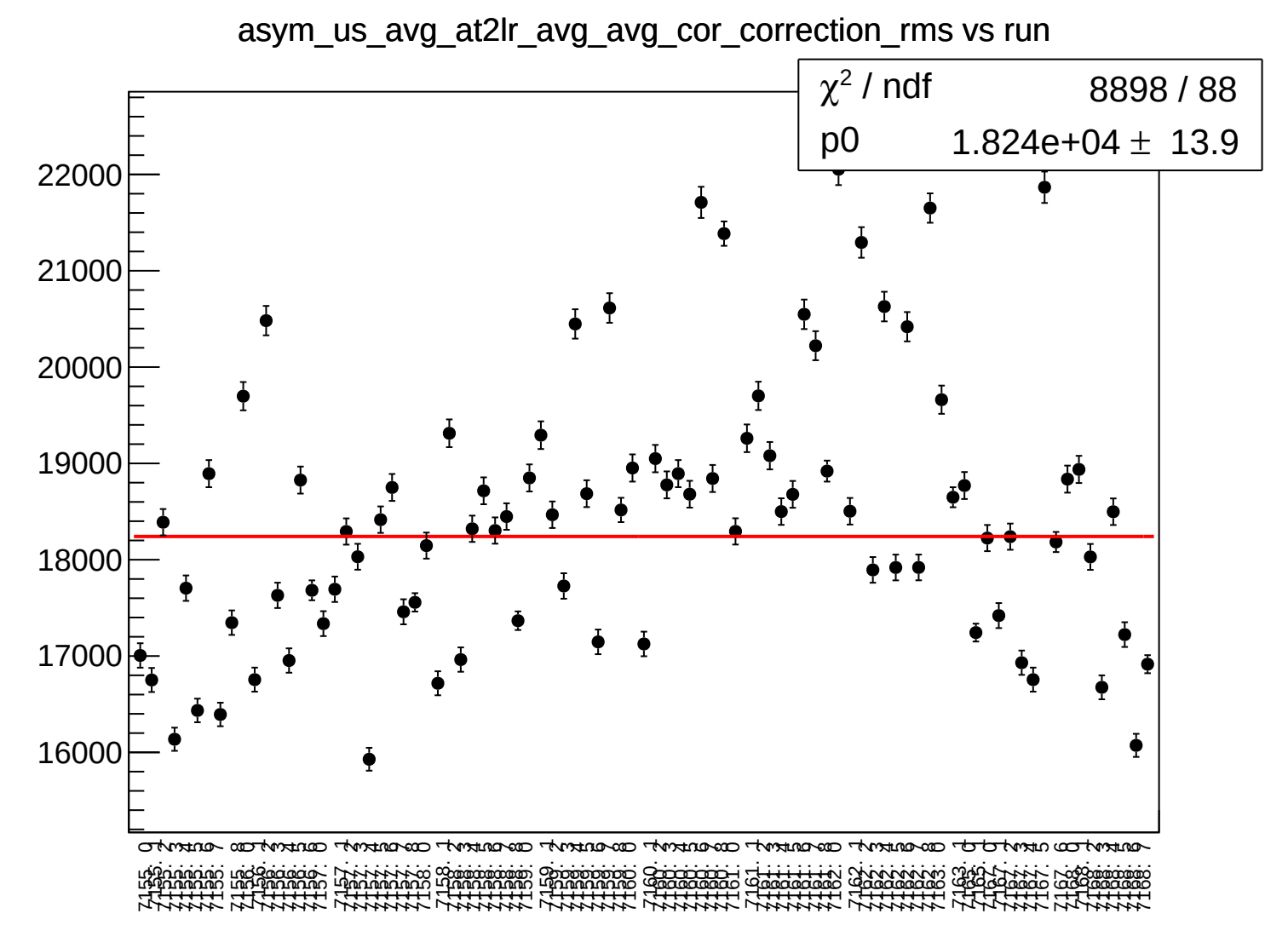

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.76 / 88
p0 −4648 ± 2392
pull
Entries 89
Mean 197.5
Std Dev 0

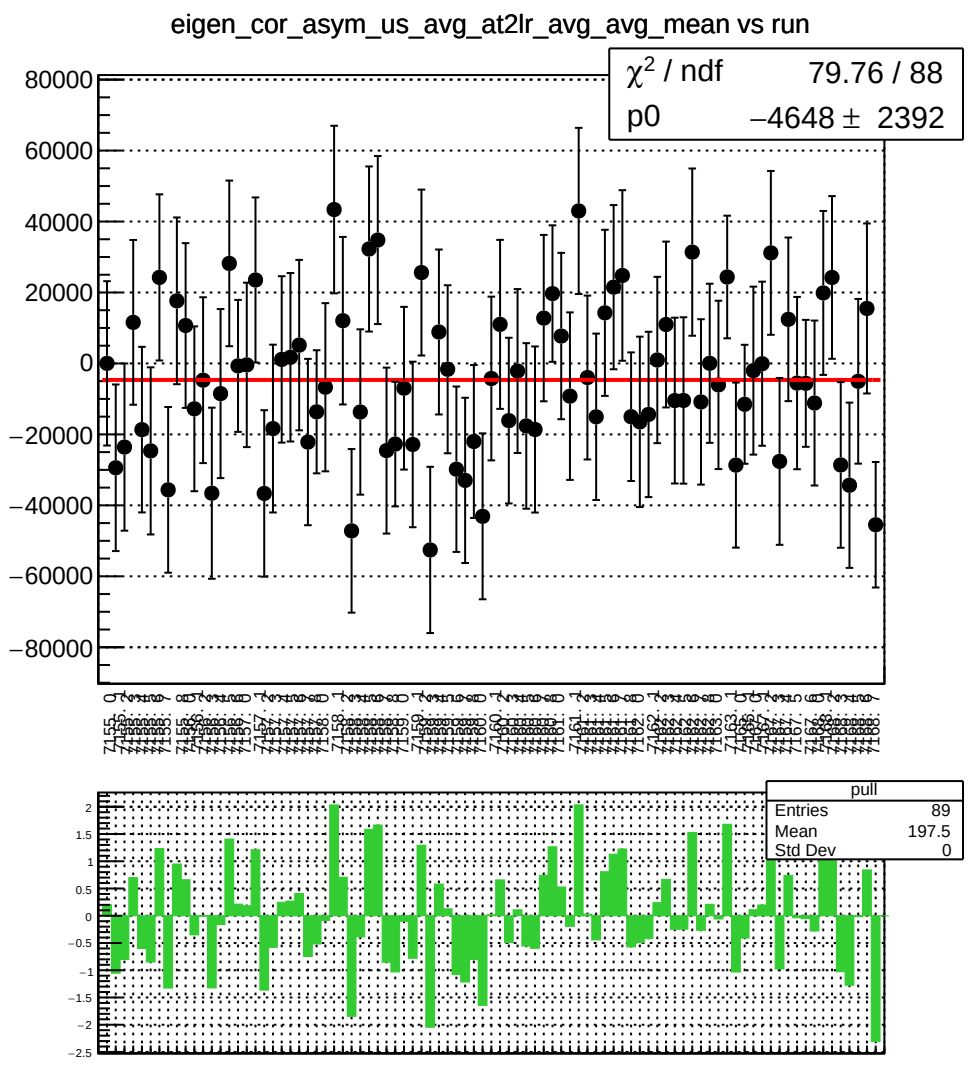

pull1D
Entries 89
Mean 0.008459
Std Dev 0.9466

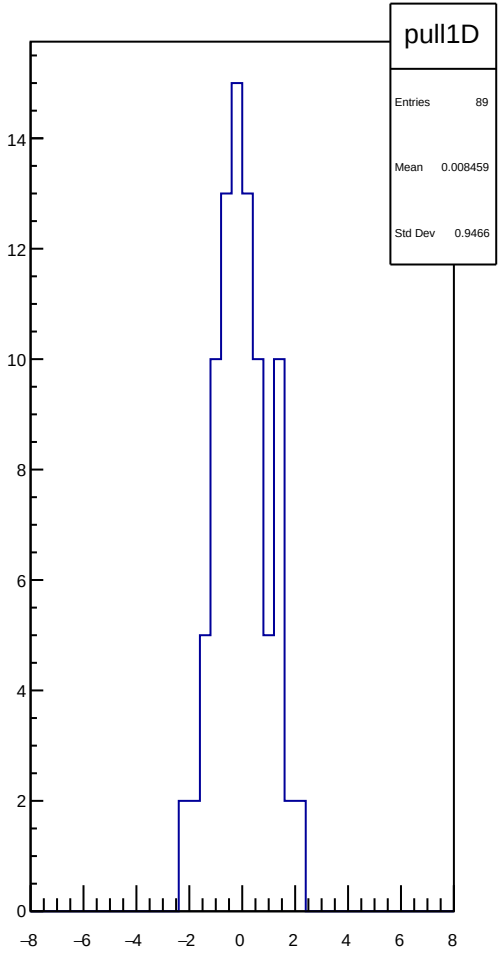

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 256.9 / 88
p0 2225 ± 1.692
2320
2300
2280
2260
2240
2220
2200
2180
2160

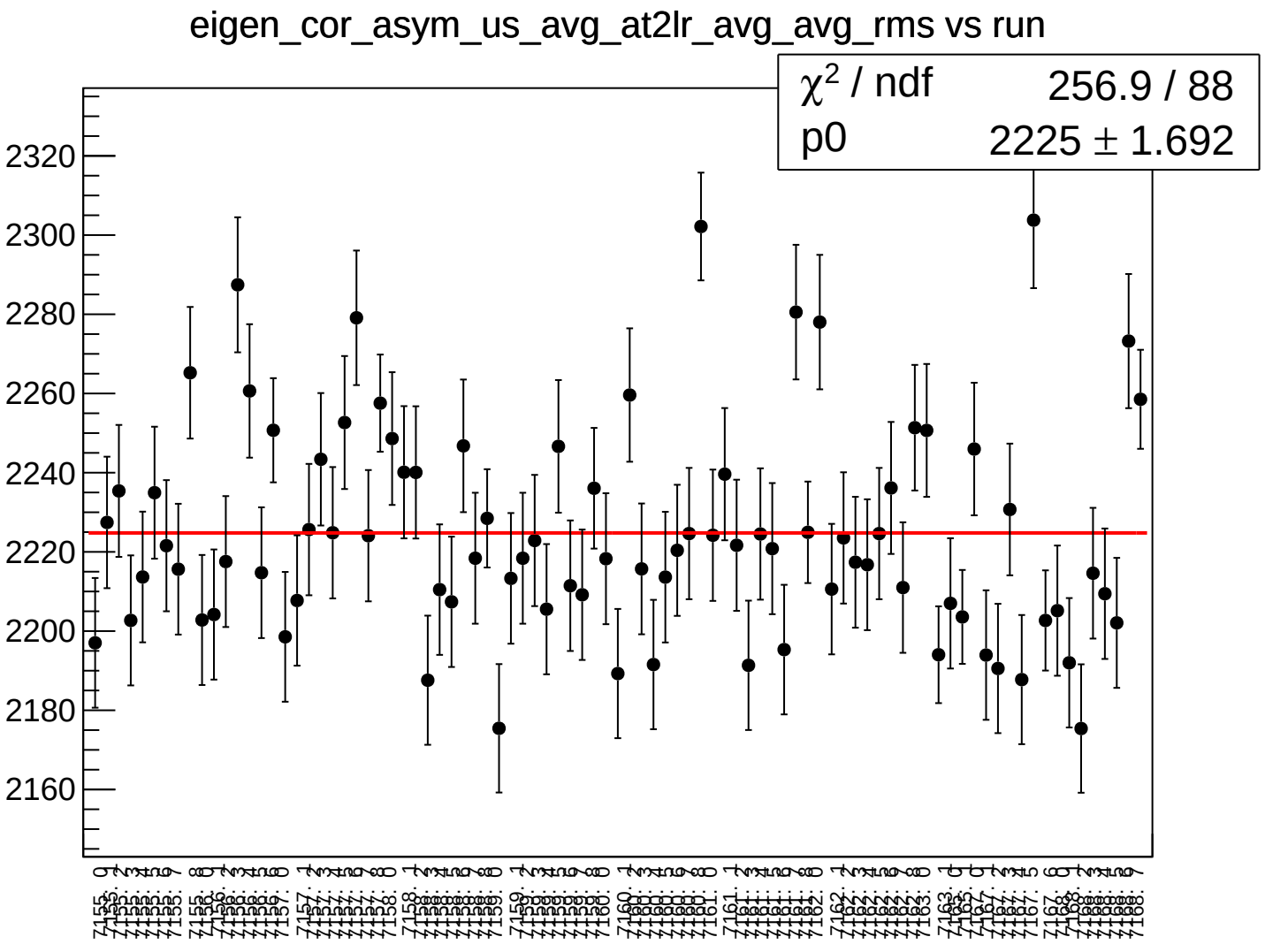

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.48 / 88
p0 −3229 ± 1.966e+04
pull
Entries 89
Mean −15
Std Dev 0

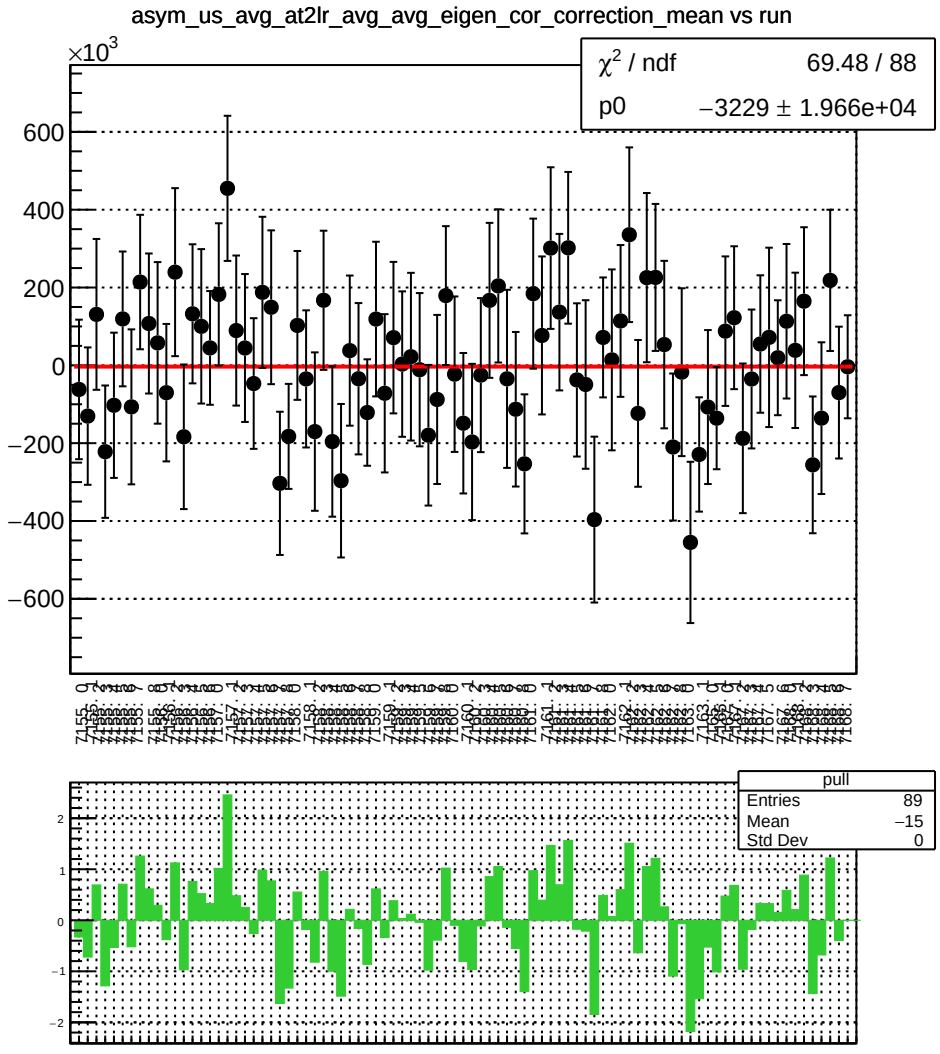

pull1D
Entries 89
Mean 0.02277
Std Dev 0.8833

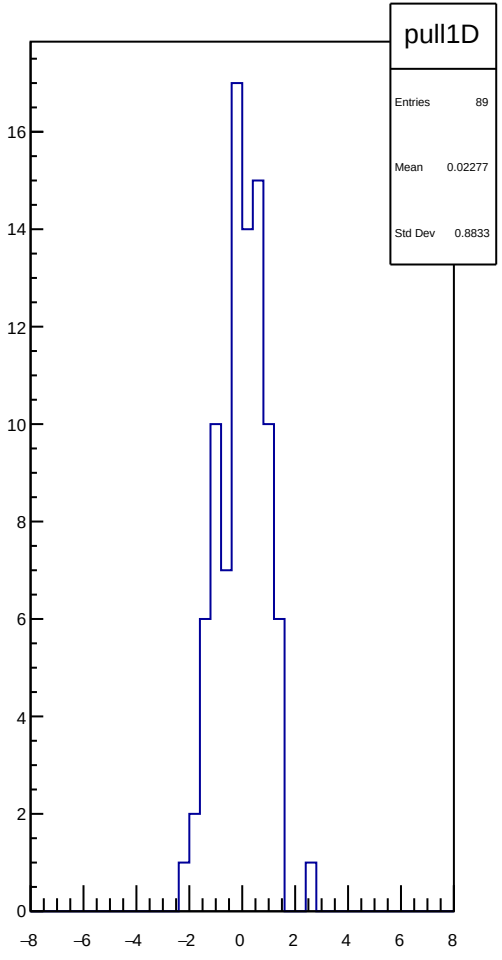

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 8898 / 88
p0 1.824e+04 ± 13.9
22000
21000
20000
19000
18000
17000
16000

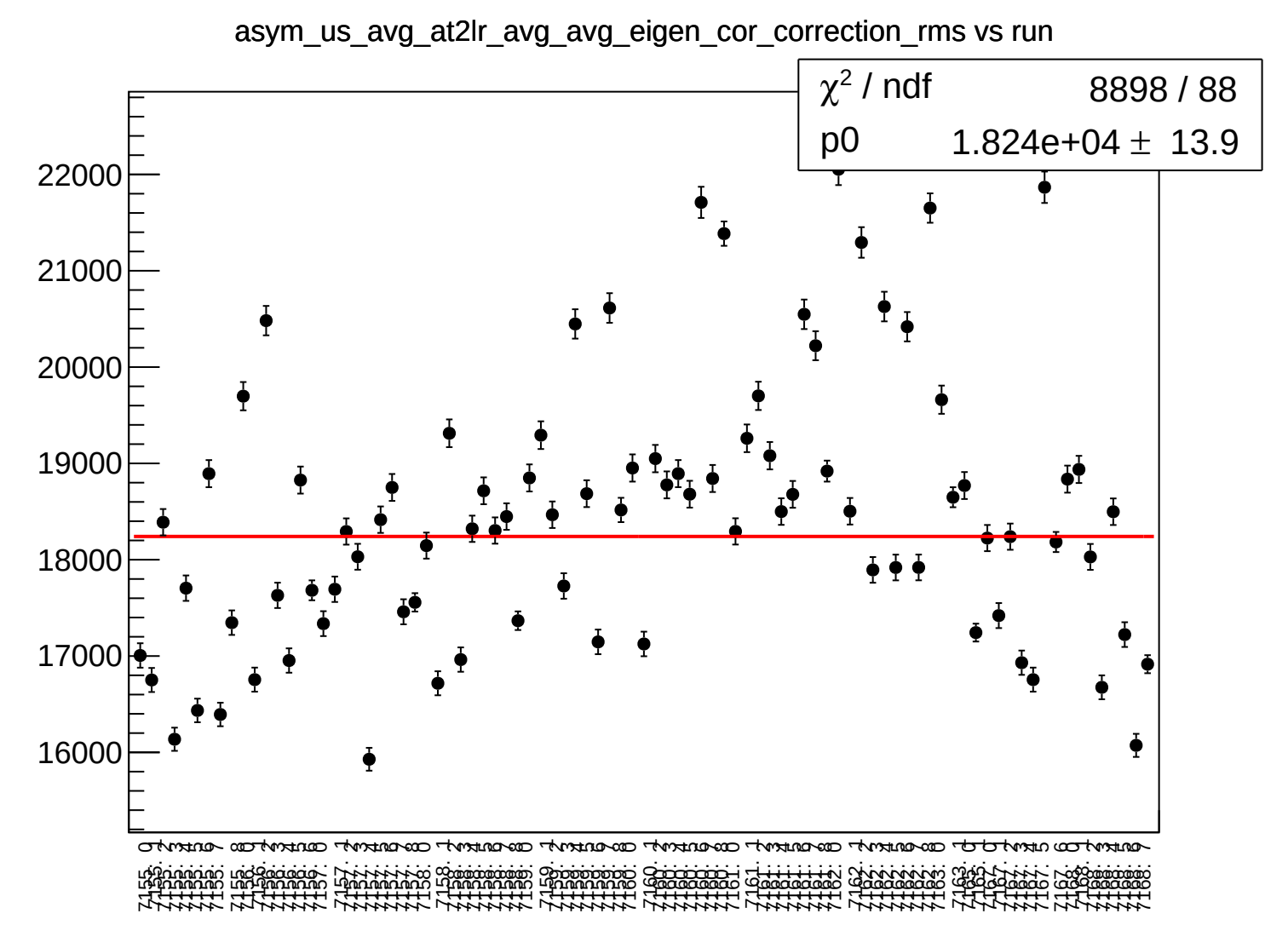

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 79.76 / 88
p0 −4648 ± 2392
pull
Entries 89
Mean 197.5
Std Dev 0

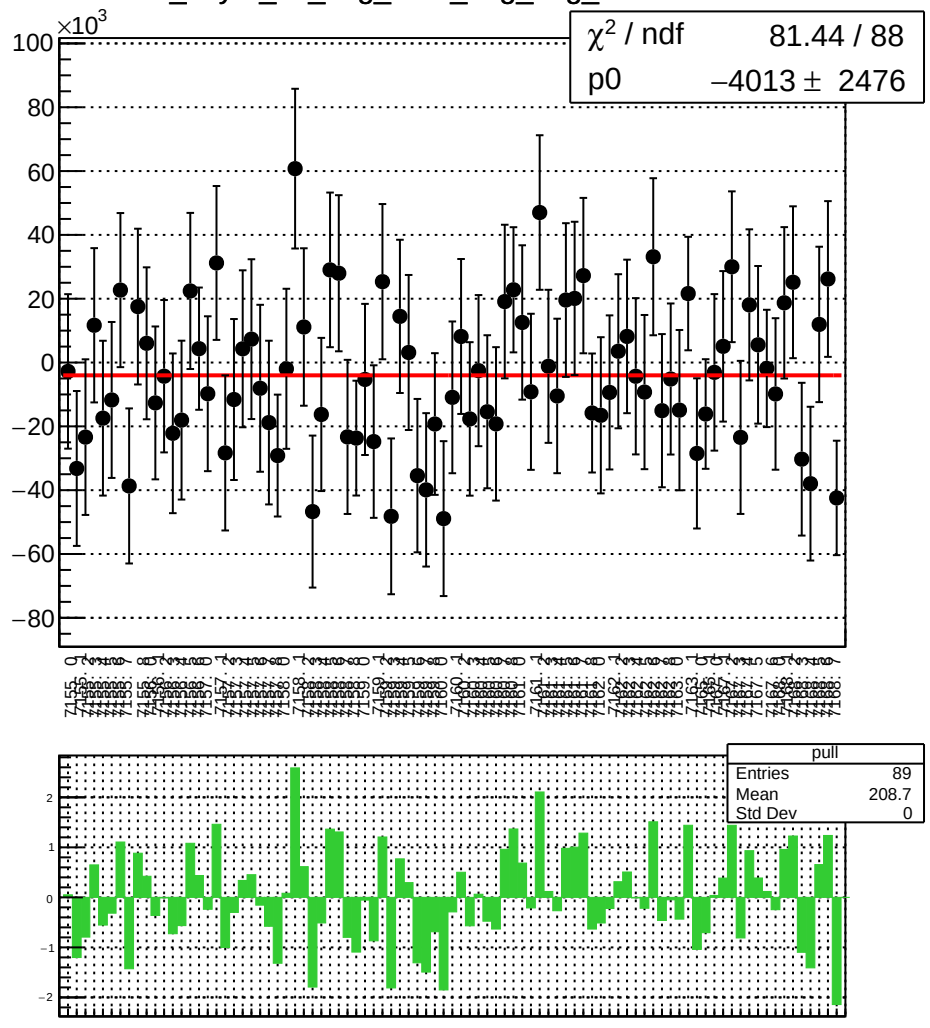

pull1D
Entries 89
Mean 0.008459
Std Dev 0.9466

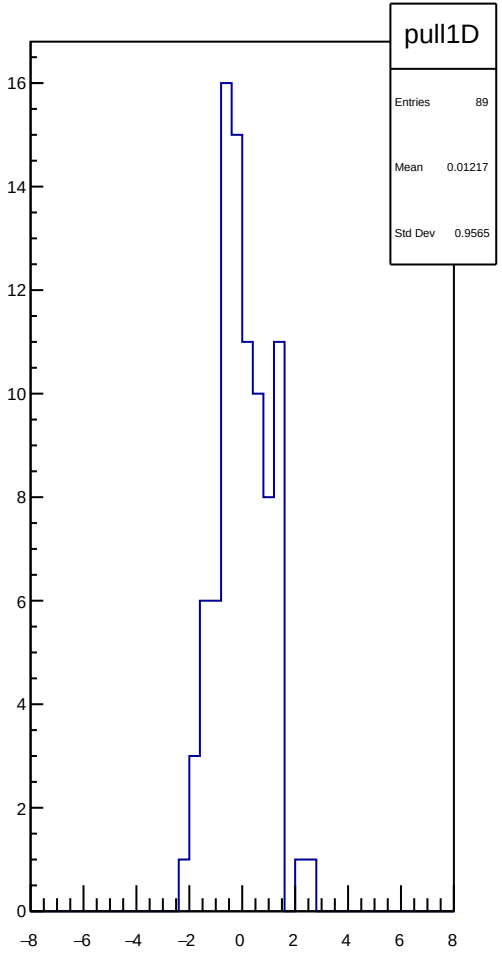

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 256.9 / 88
p0 2225 ± 1.692
2320
2300
2280
2260
2240
2220
2200
2180
2160

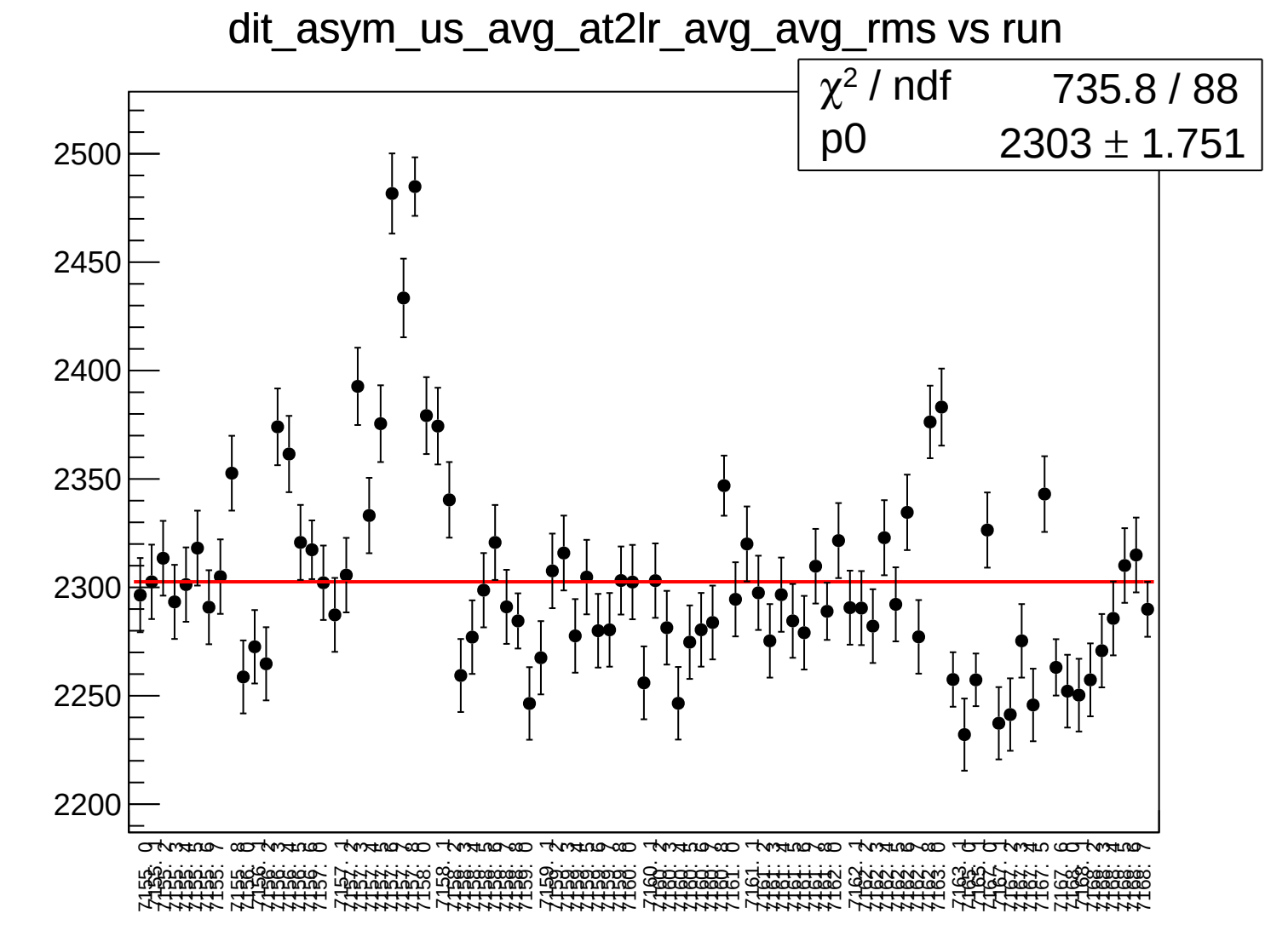

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.48 / 88
p0 −3229 ± 1.966e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −15
Std Dev 0
2
1
0
−1
−2

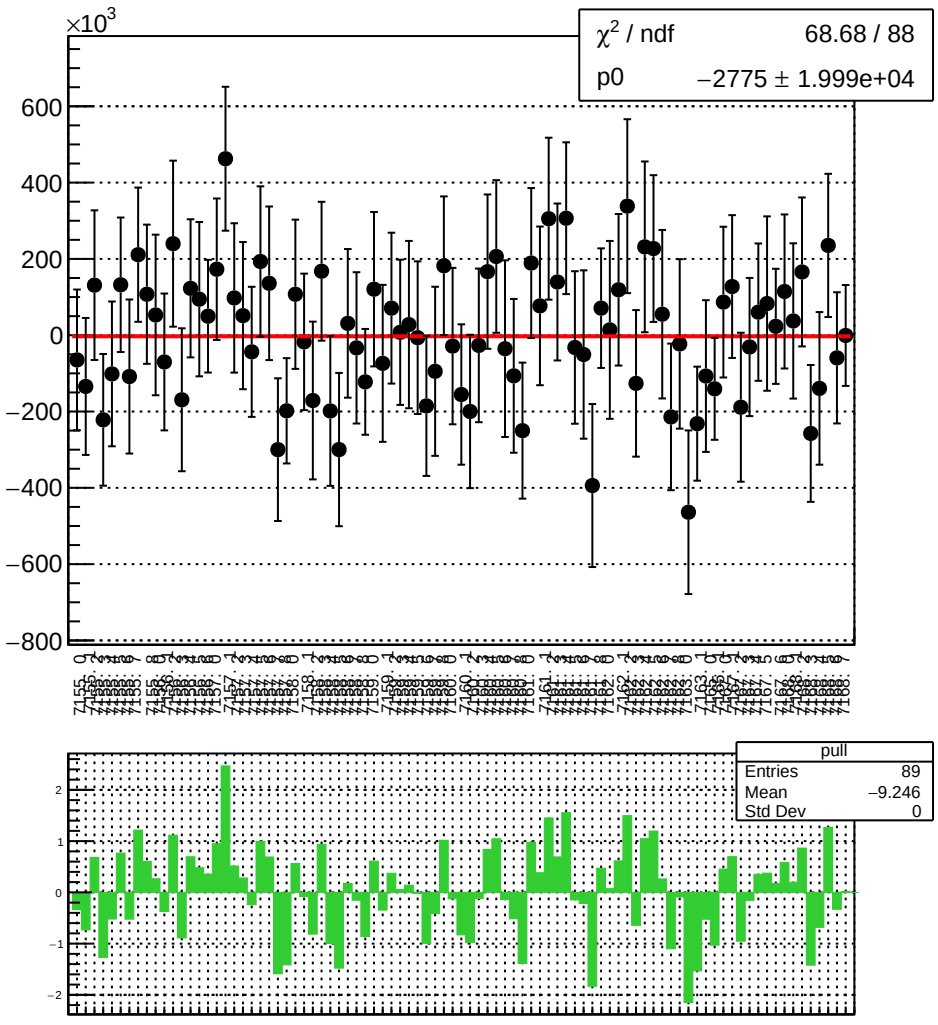

pull1D
Entries 89
Mean 0.02277
Std Dev 0.8833
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

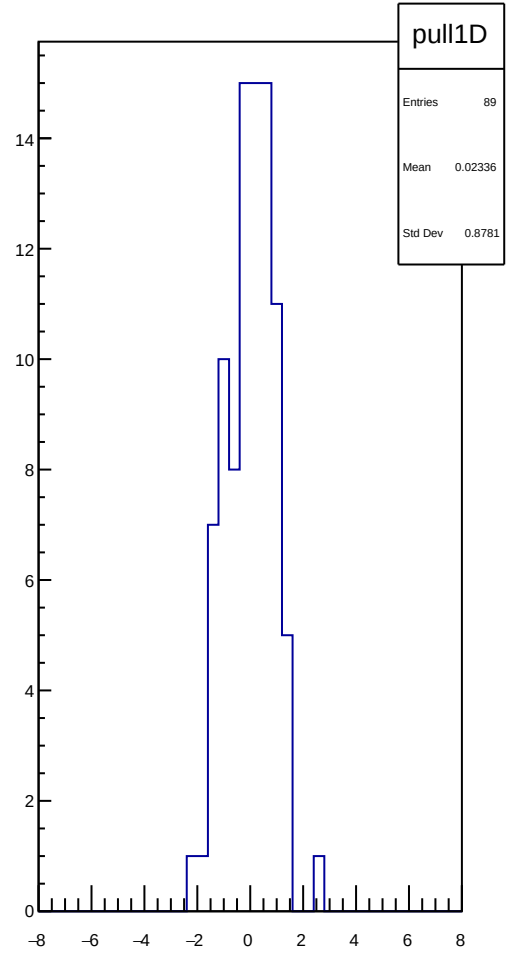

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 8898 / 88
p0 1.824e+04 ± 13.9
22000
21000
20000
19000
18000
17000
16000

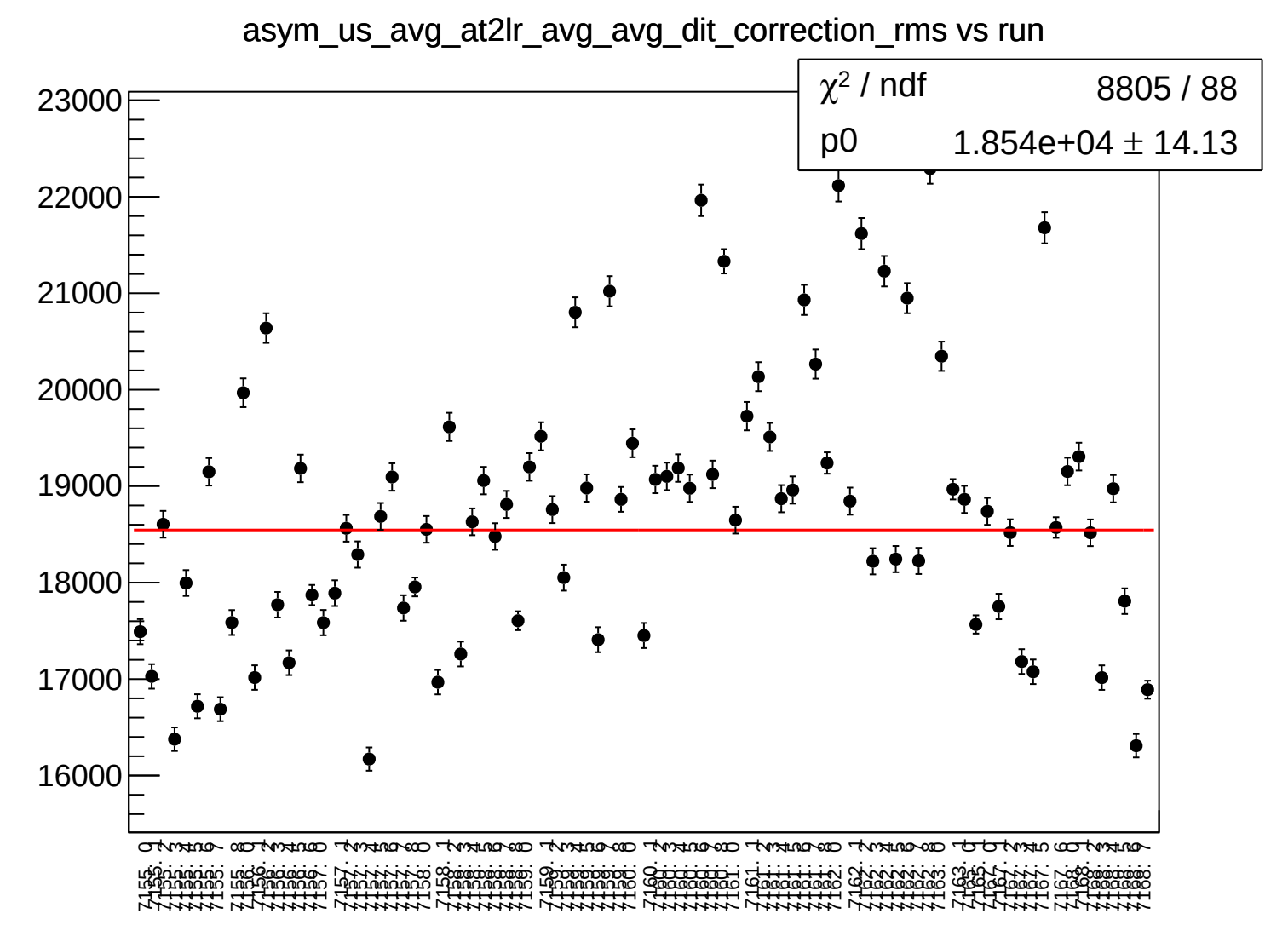

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ^2 / ndf 81.44 / 88
p0 −4013 ± 2476
×10^3
pull
Entries 89
Mean 208.7
Std Dev 0

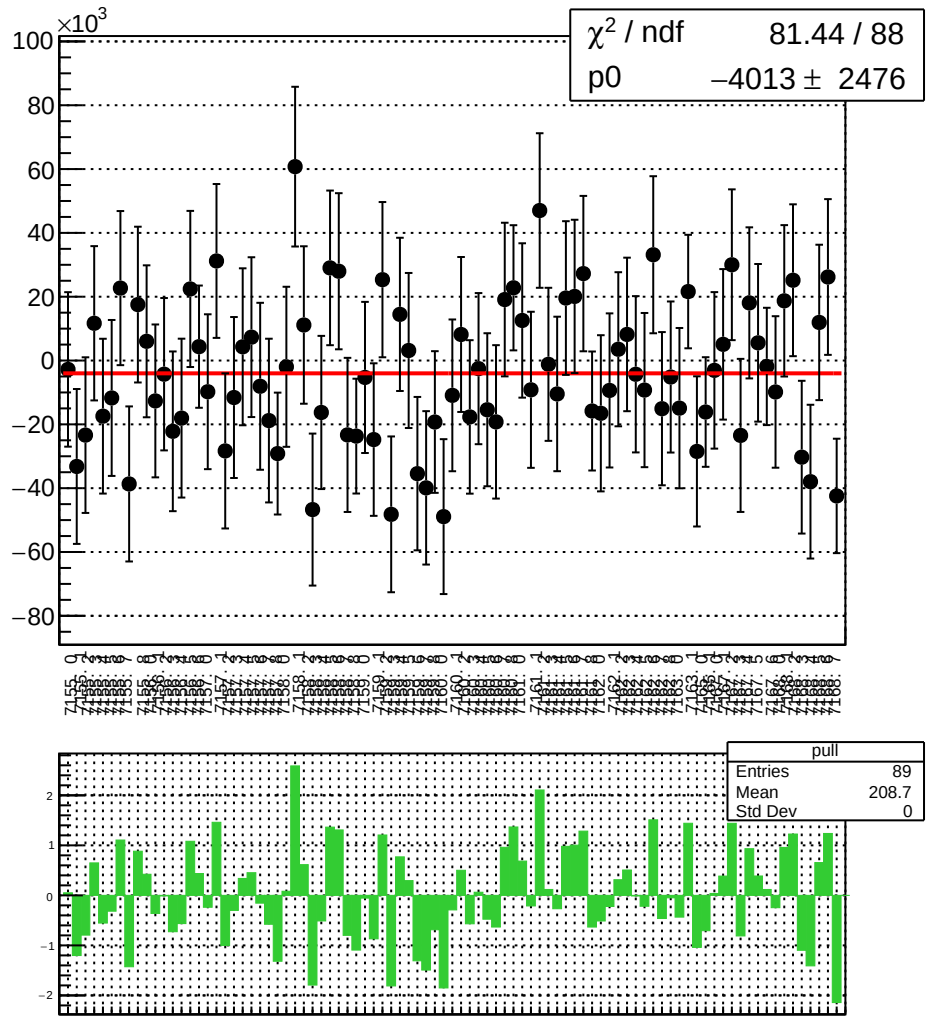

pull1D
Entries 89
Mean 0.01217
Std Dev 0.9565

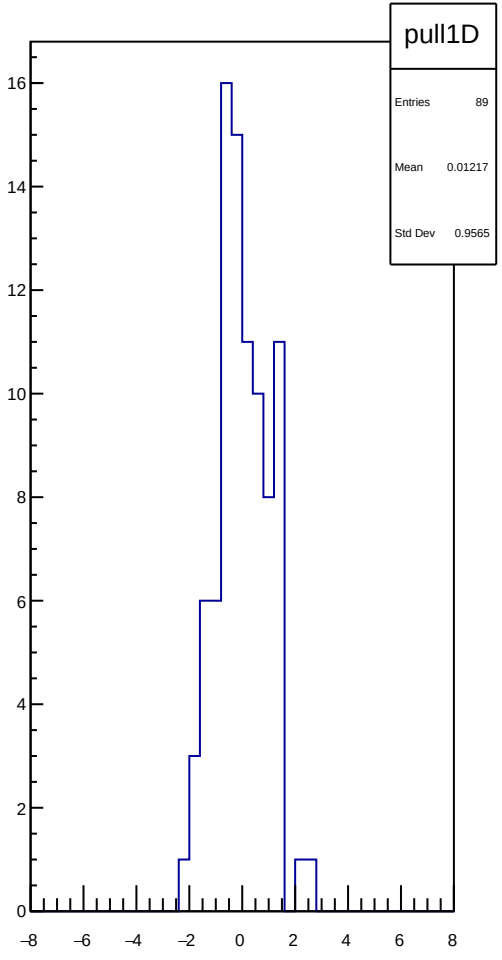

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 735.8 / 88
p0 2303 ± 1.751
2500
2450
2400
2350
2300
2250
2200

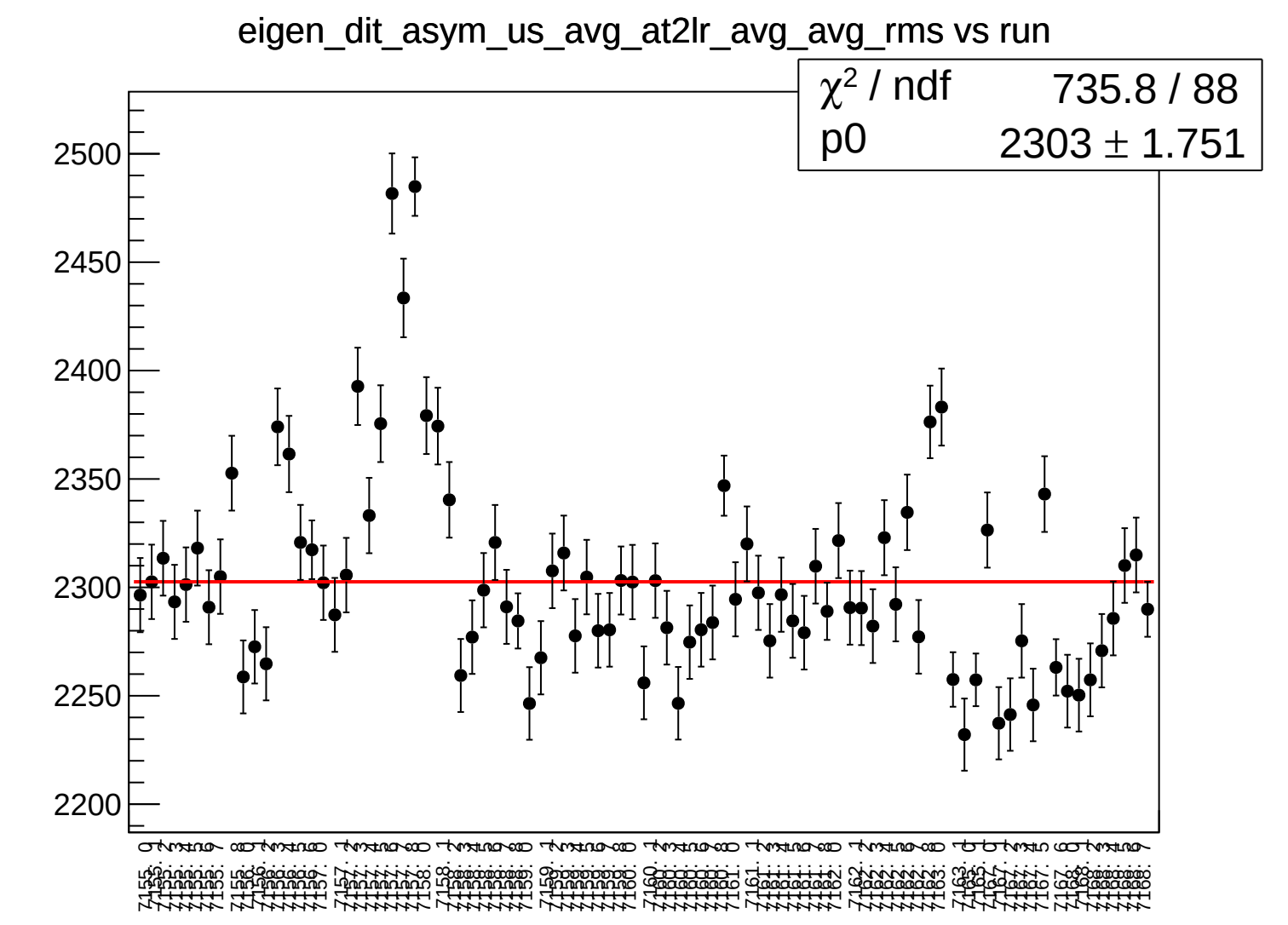

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.68 / 88
p0 −2775 ± 1.999e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 89
Mean −9.246
Std Dev 0
2
1
0
−1
−2

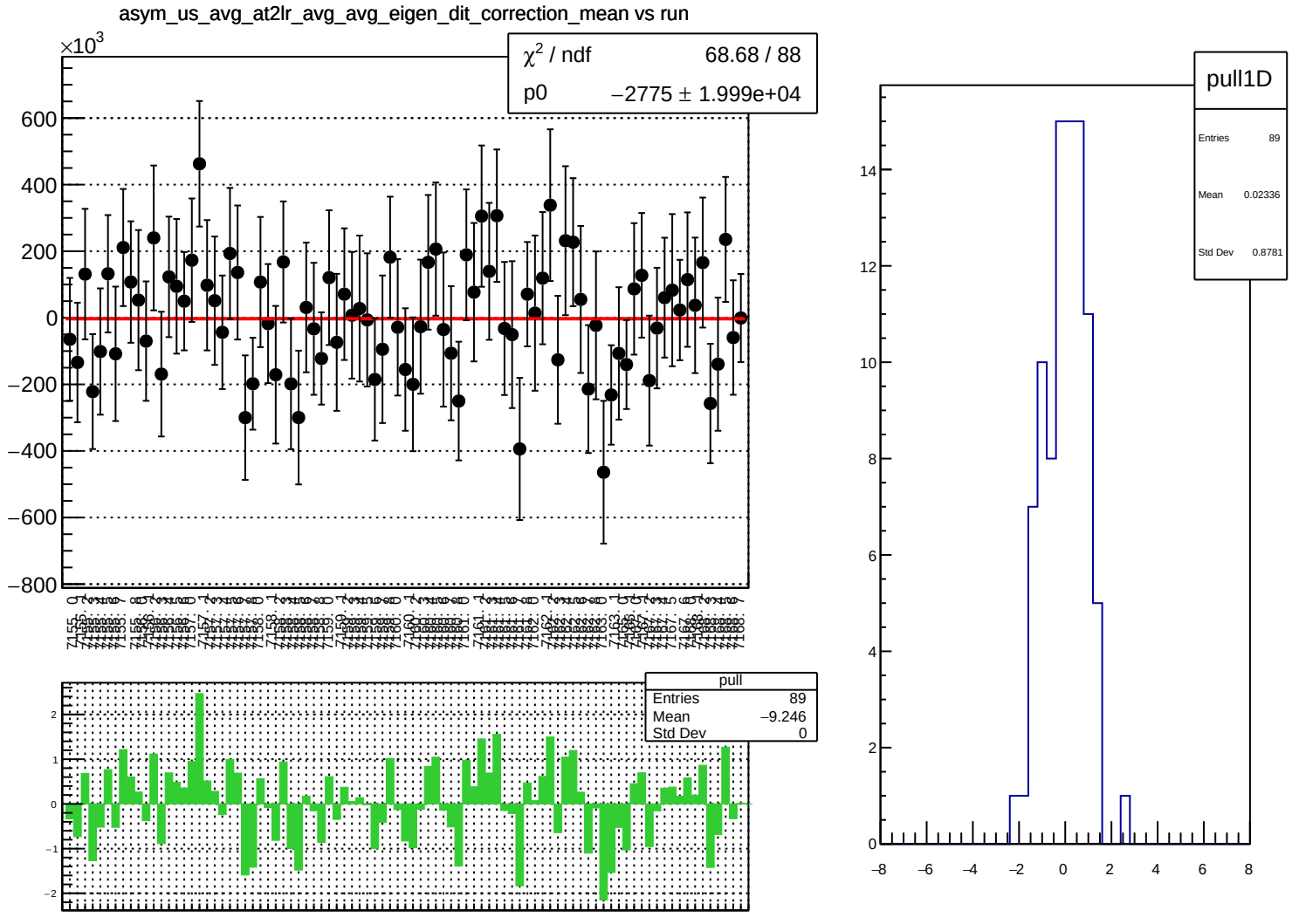

pull1D
Entries 89
Mean 0.02336
Std Dev 0.8781
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

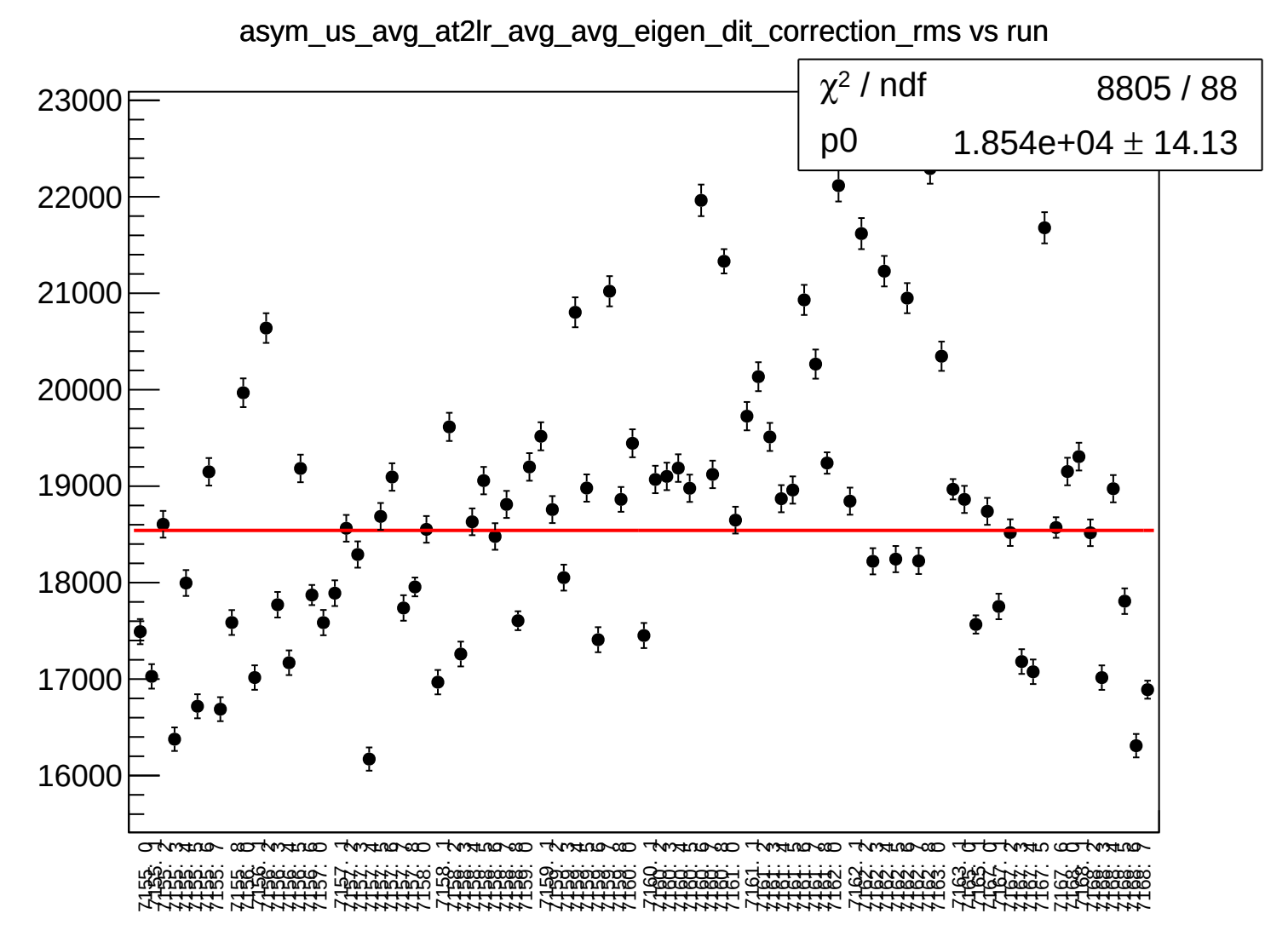

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 8805 / 88
p0 1.854e+04 ± 14.13
23000
22000
21000
20000
19000
18000
17000
16000

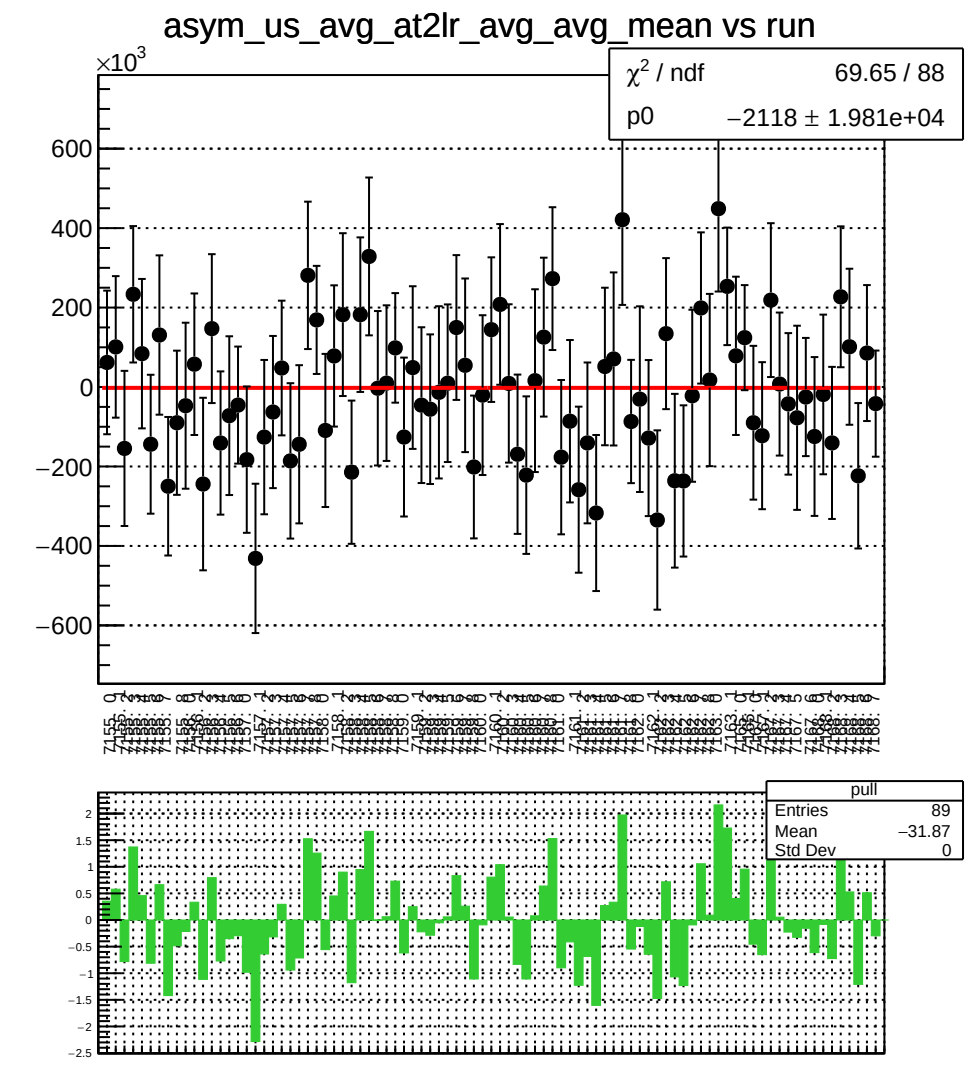

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 81.44 / 88
p0 −4013 ± 2476
×10³
pull
Entries 89
Mean 208.7
Std Dev 0

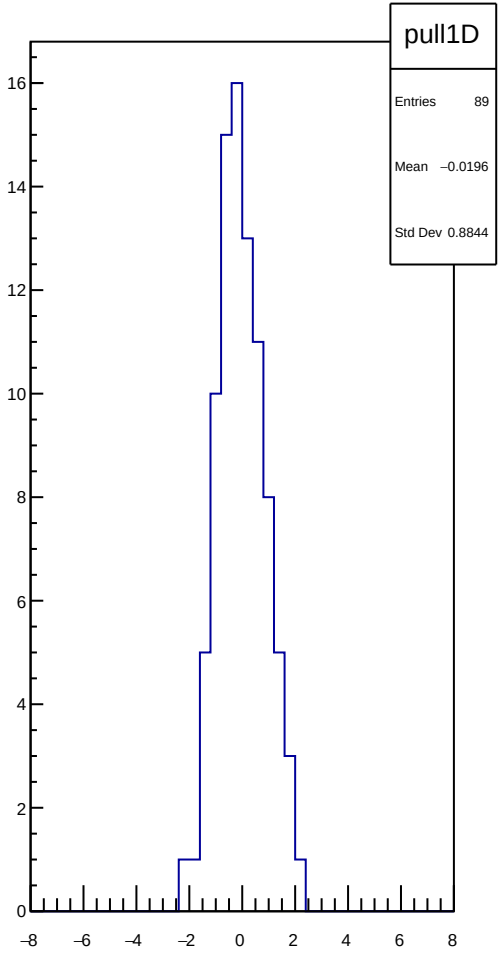

pull1D
Entries 89
Mean 0.01217
Std Dev 0.9565

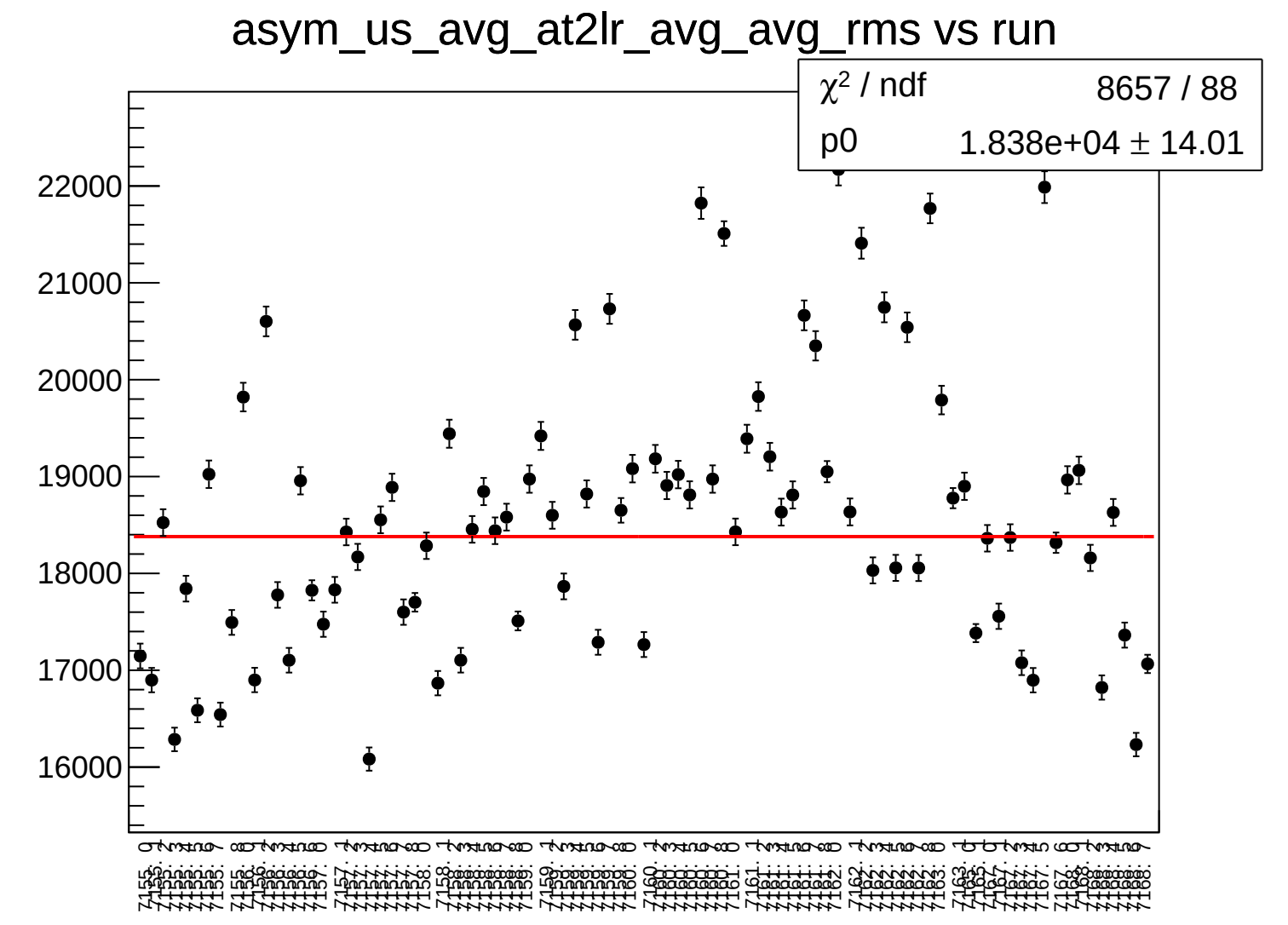

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 735.8 / 88
p0 2303 ± 1.751
2500
2450
2400
2350
2300
2250
2200

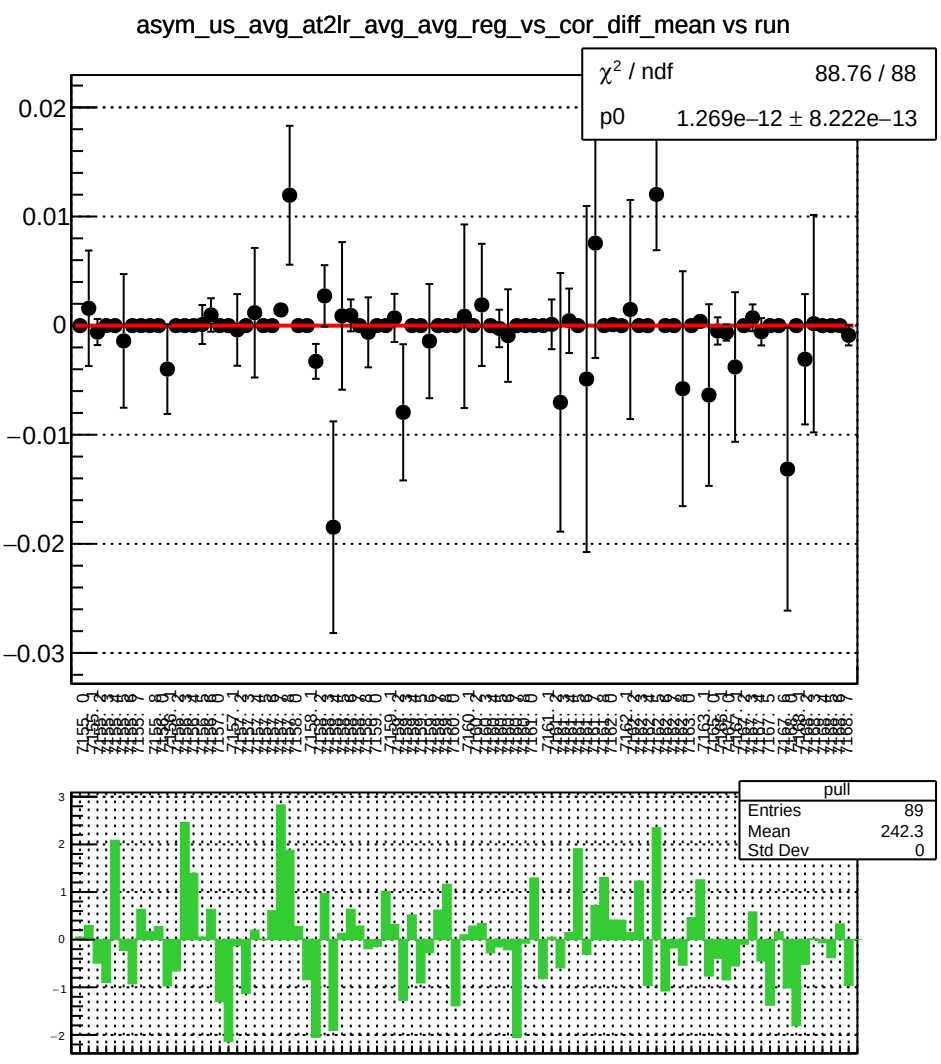

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.68 / 88
p0 −2775 ± 1.999e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 89
Mean −9.246
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.02336
Std Dev 0.8781
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

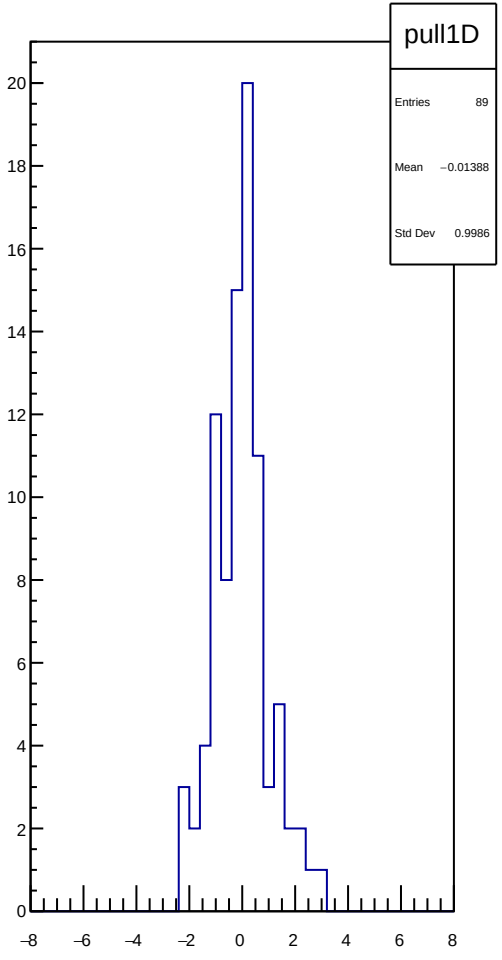

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8805 / 88
p0 1.854e+04 ± 14.13
23000
22000
21000
20000
19000
18000
17000
16000

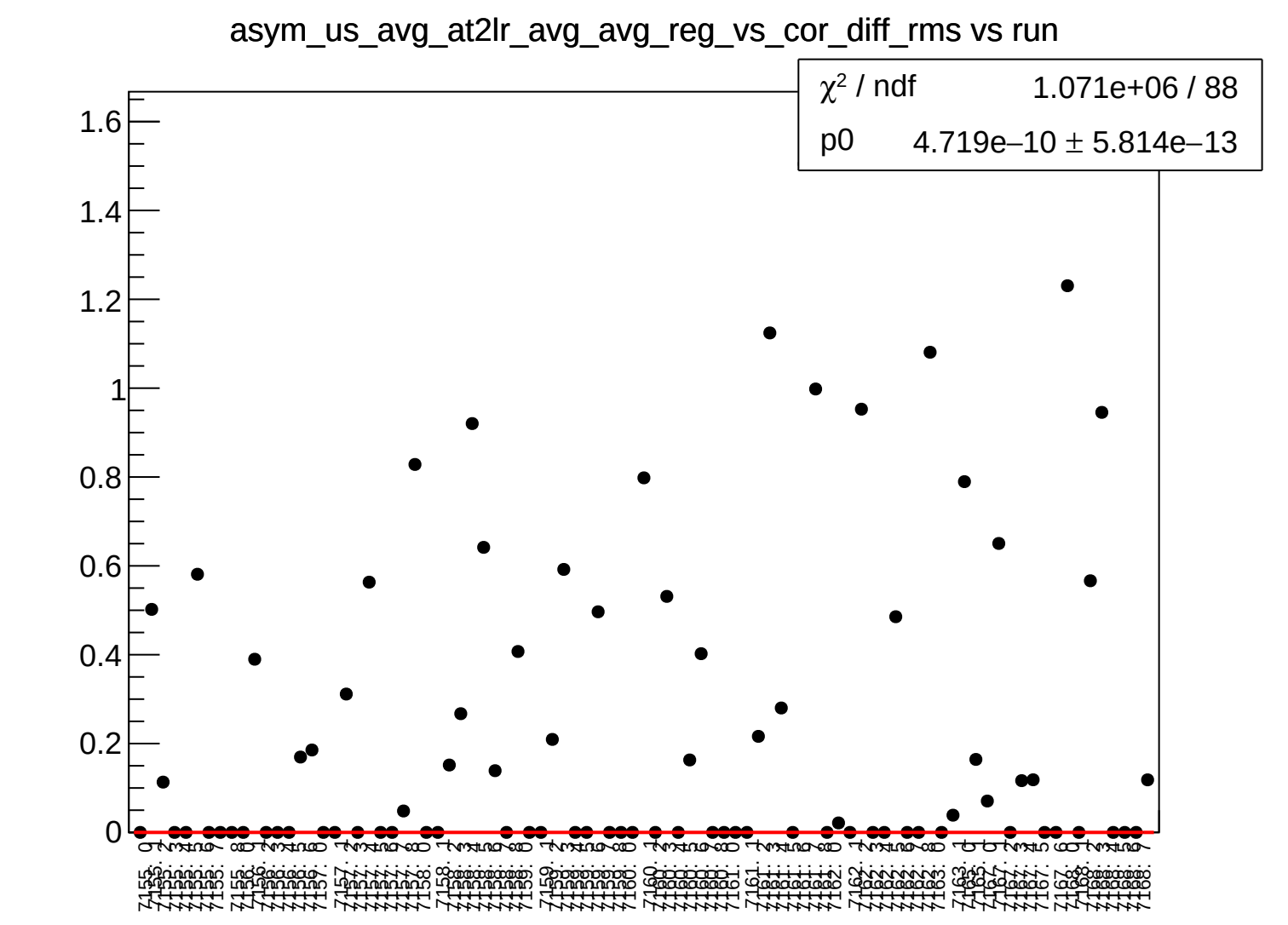

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 69.65 / 88
p0 −2118 ± 1.981e+04
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean −31.87
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

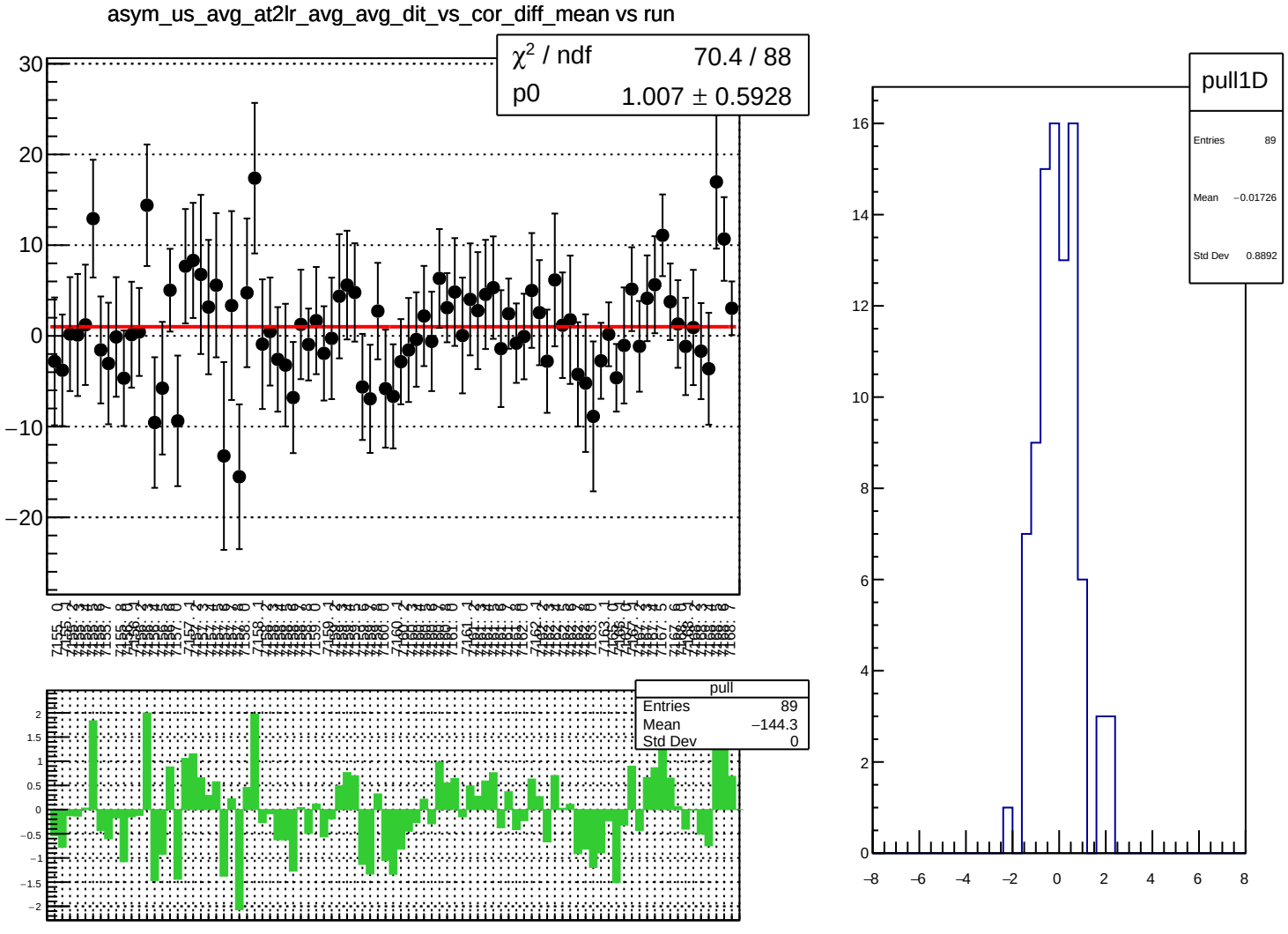

pull1D
Entries 89
Mean −0.0196
Std Dev 0.8844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

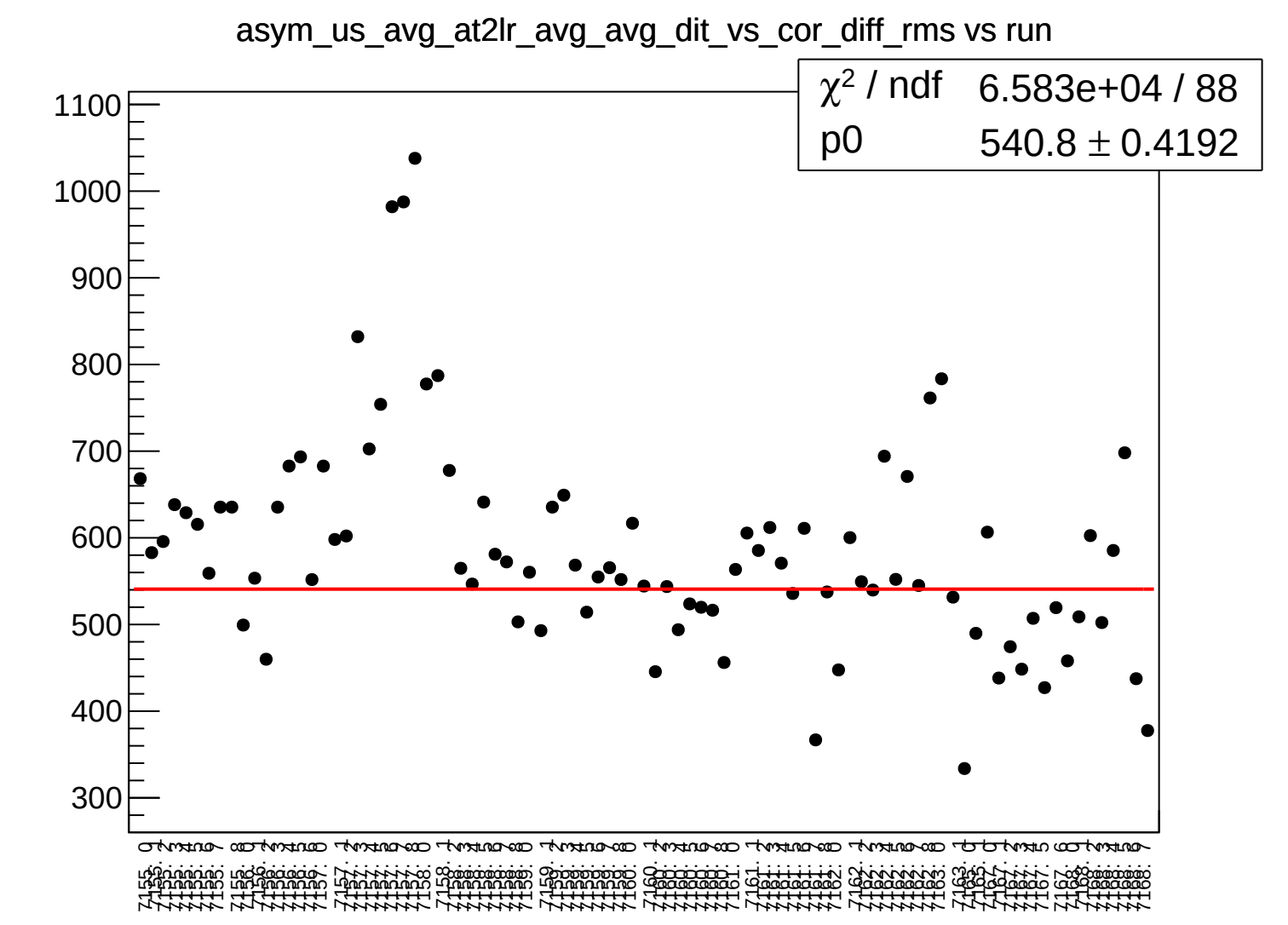

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 8657 / 88
p0 1.838e+04 ± 14.01
22000
21000
20000
19000
18000
17000
16000

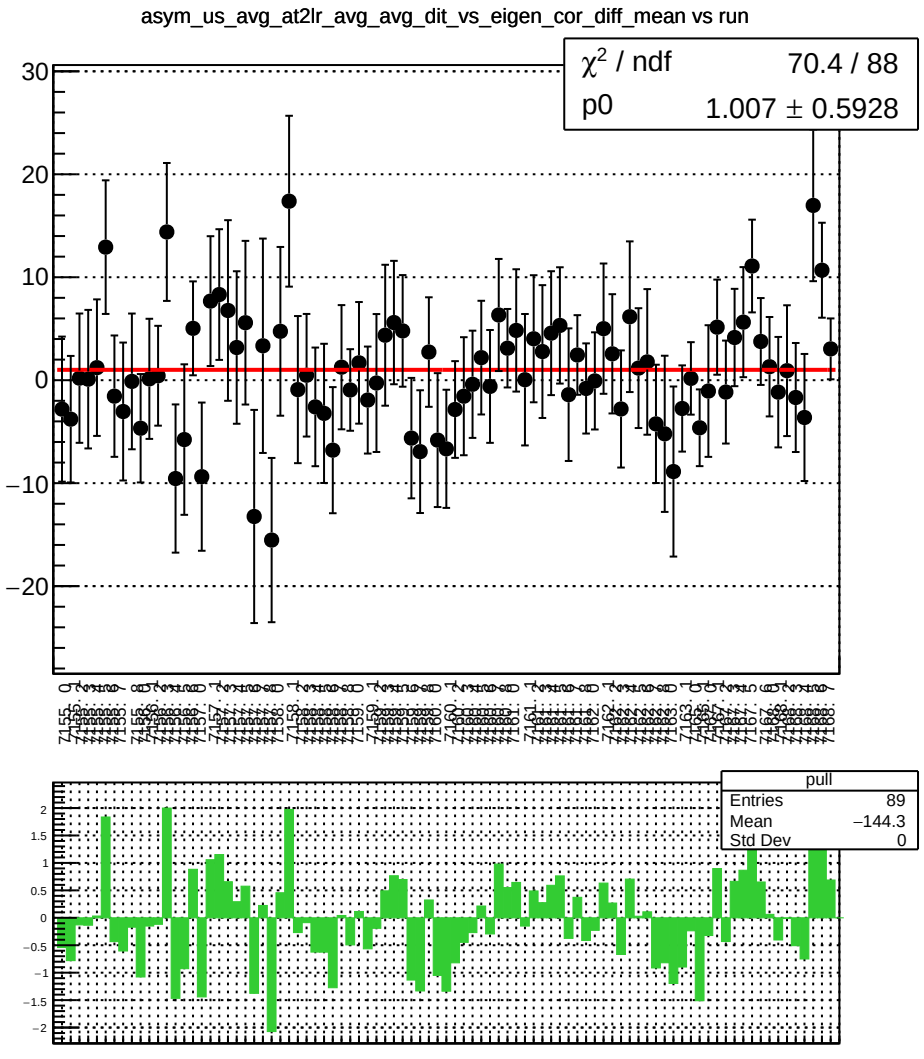

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.76 / 88
p0 1.269e−12 ± 8.222e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 242.3
Std Dev 0
3
2
1
0
−1
−2

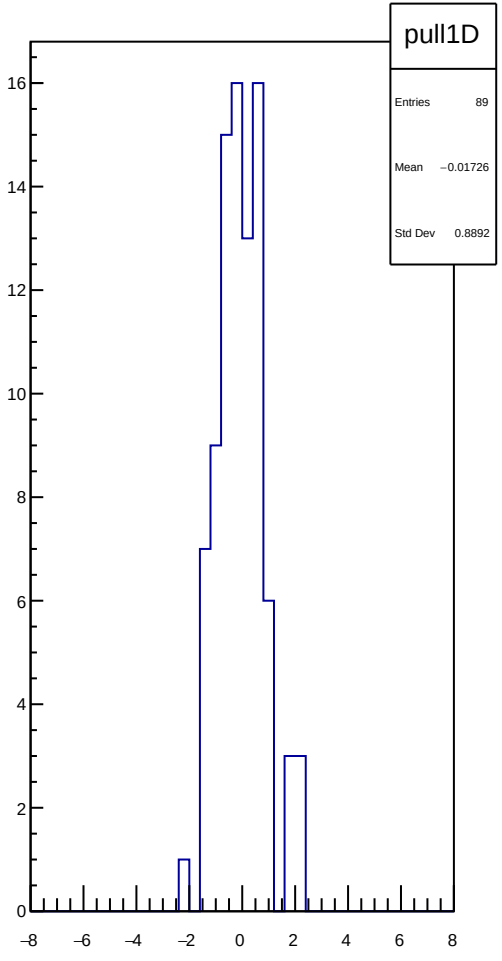

pull1D
Entries 89
Mean −0.01388
Std Dev 0.9986
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

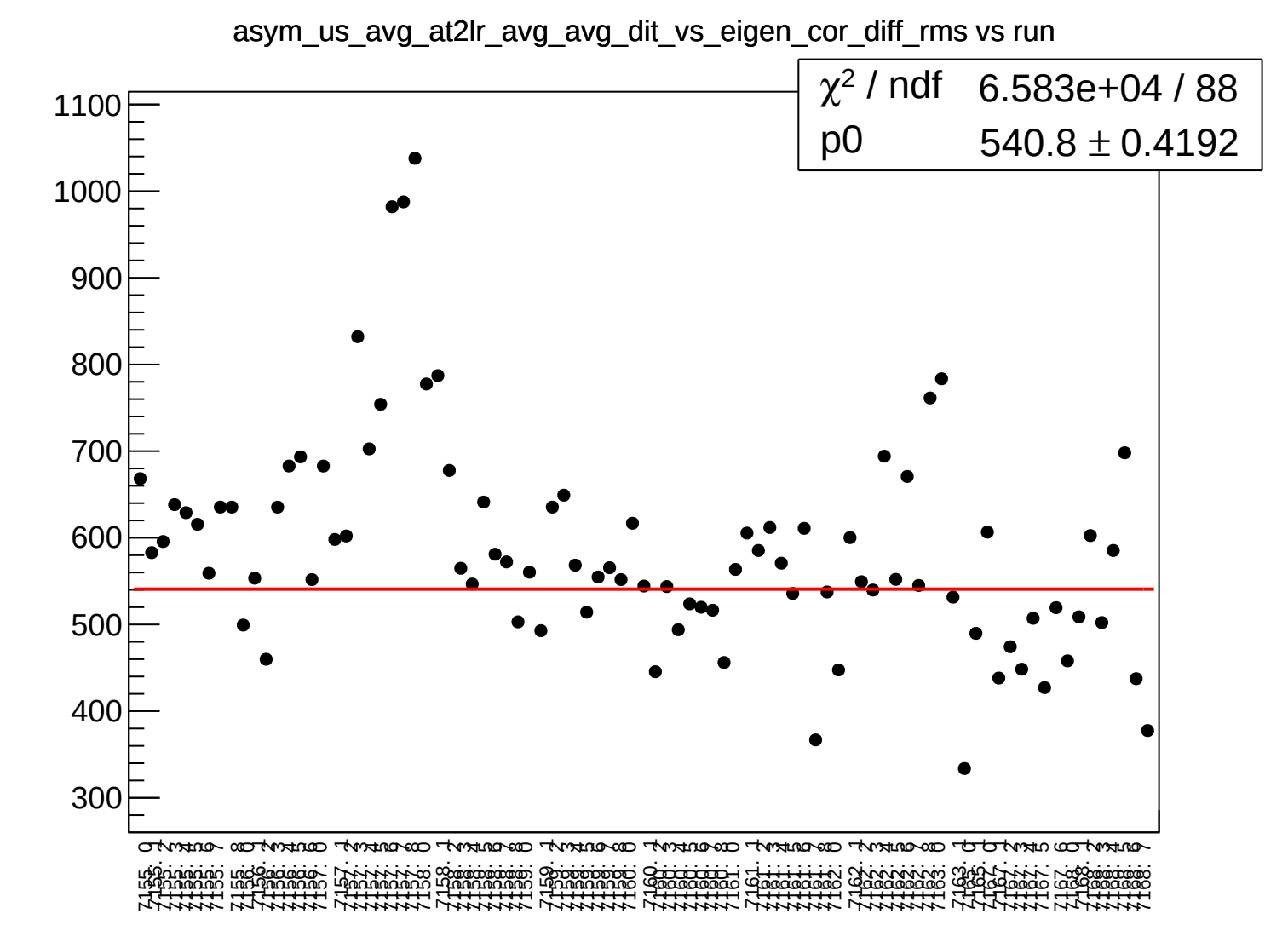

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 88
p0 4.719e−10 ± 5.814e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

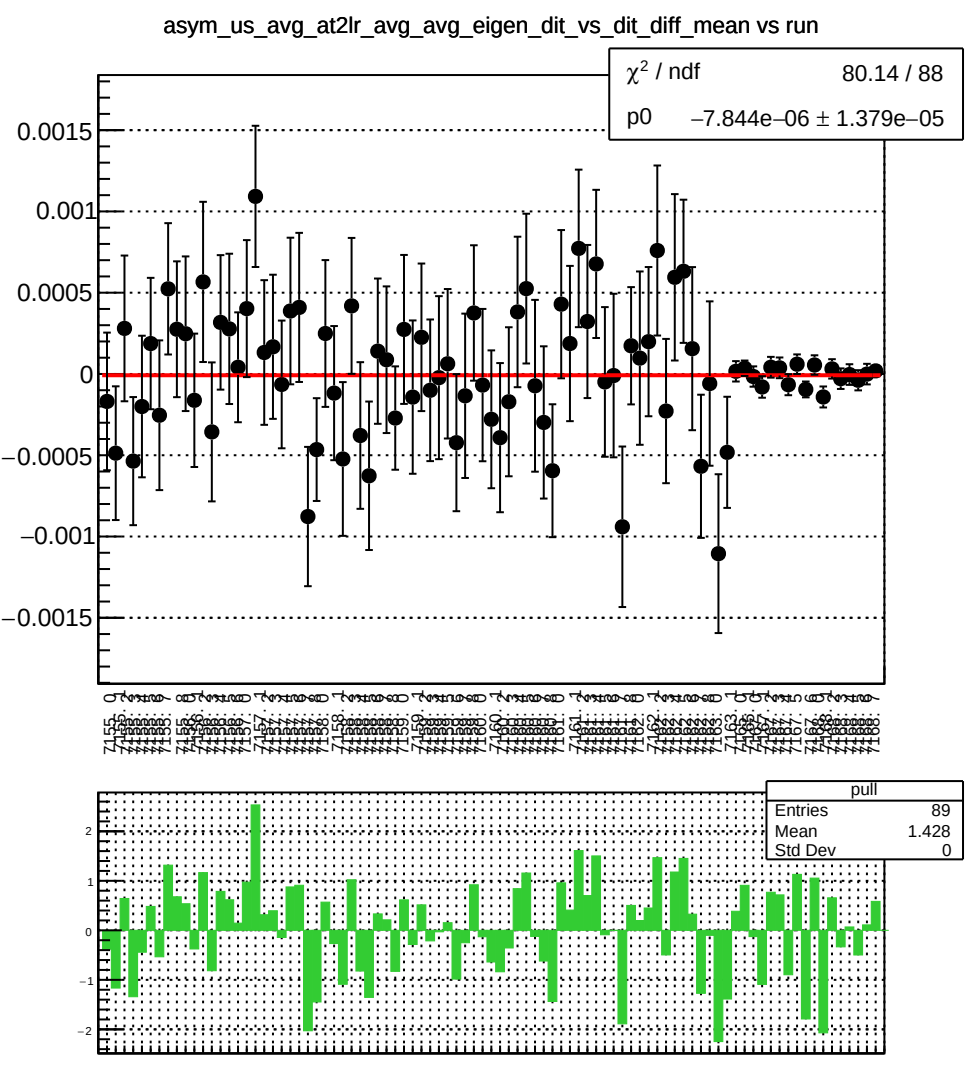

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.4 / 88
p0 1.007 ± 0.5928
pull
Entries 89
Mean −144.3
Std Dev 0
pull1D
Entries 89
Mean −0.01726
Std Dev 0.8892

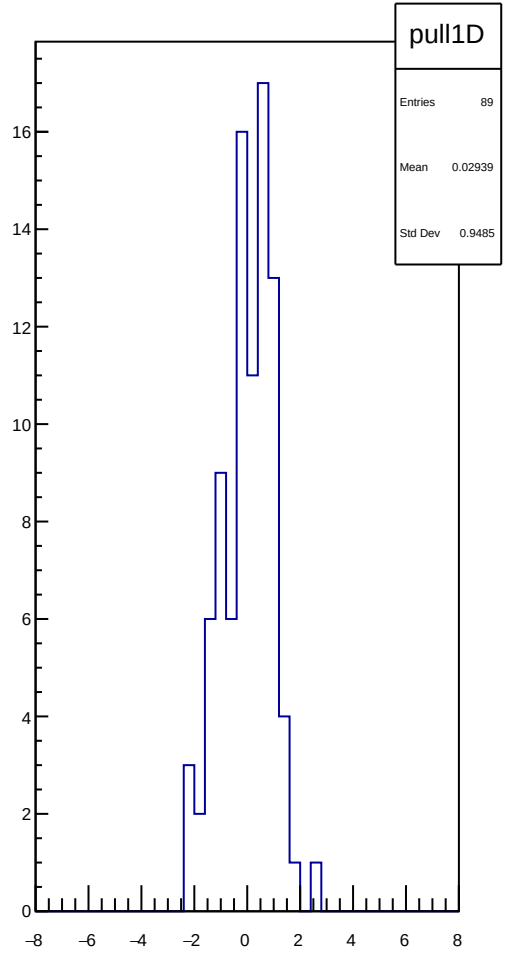

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.583e+04 / 88
p0 540.8 ± 0.4192
1100
1000
900
800
700
600
500
400
300

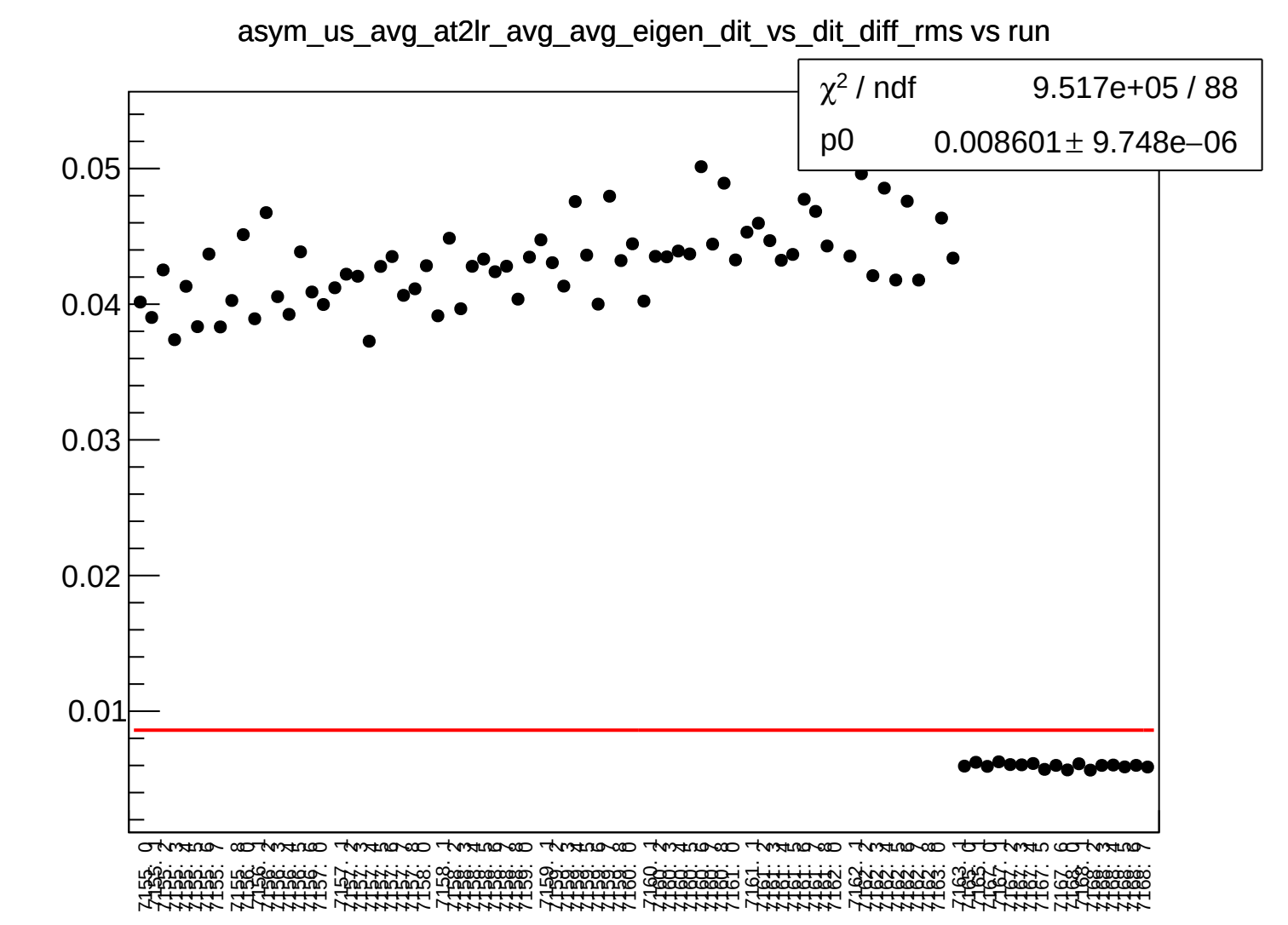

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.4 / 88
p0 1.007 ± 0.5928
pull
Entries 89
Mean −144.3
Std Dev 0

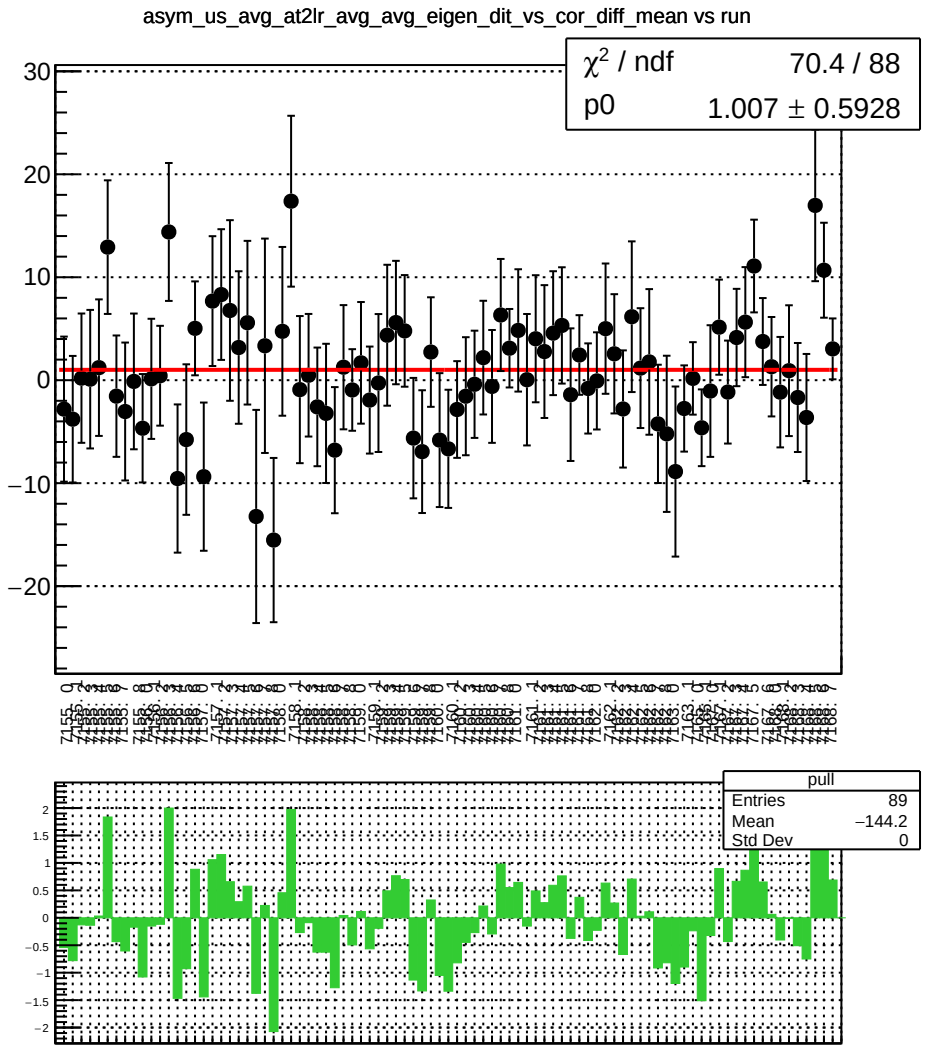

pull1D
Entries 89
Mean −0.01726
Std Dev 0.8892

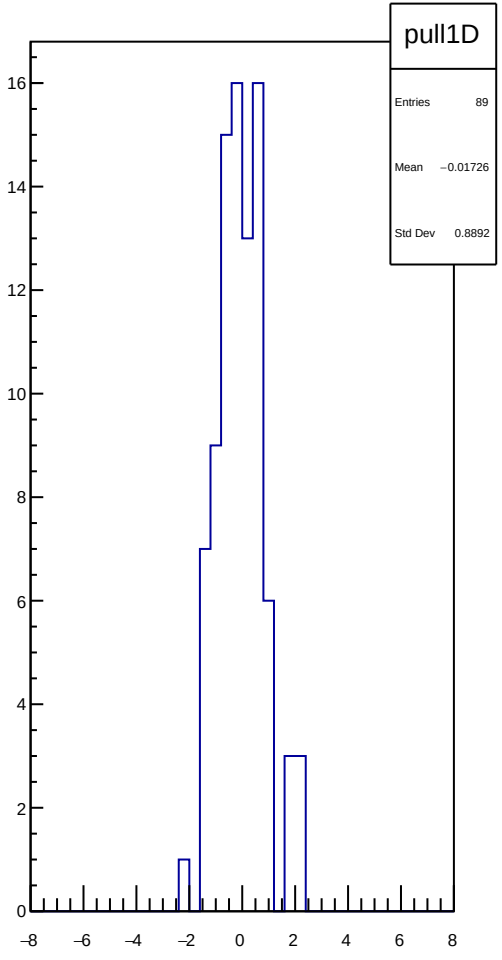

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.583e+04 / 88
p0 540.8 ± 0.4192
1100
1000
900
800
700
600
500
400
300

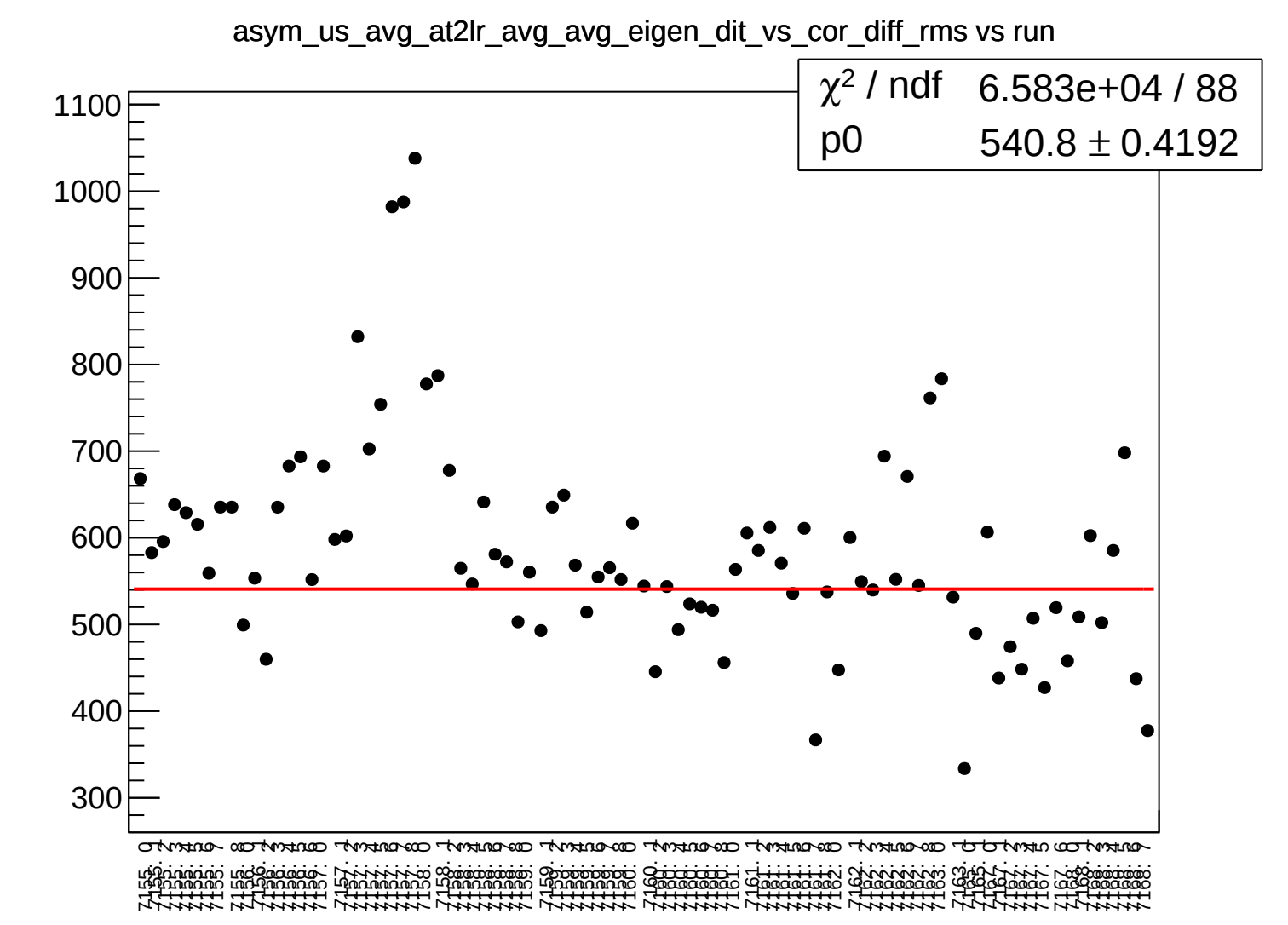

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 80.14 / 88
p0 −7.844e−06 ± 1.379e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 1.428
Std Dev 0

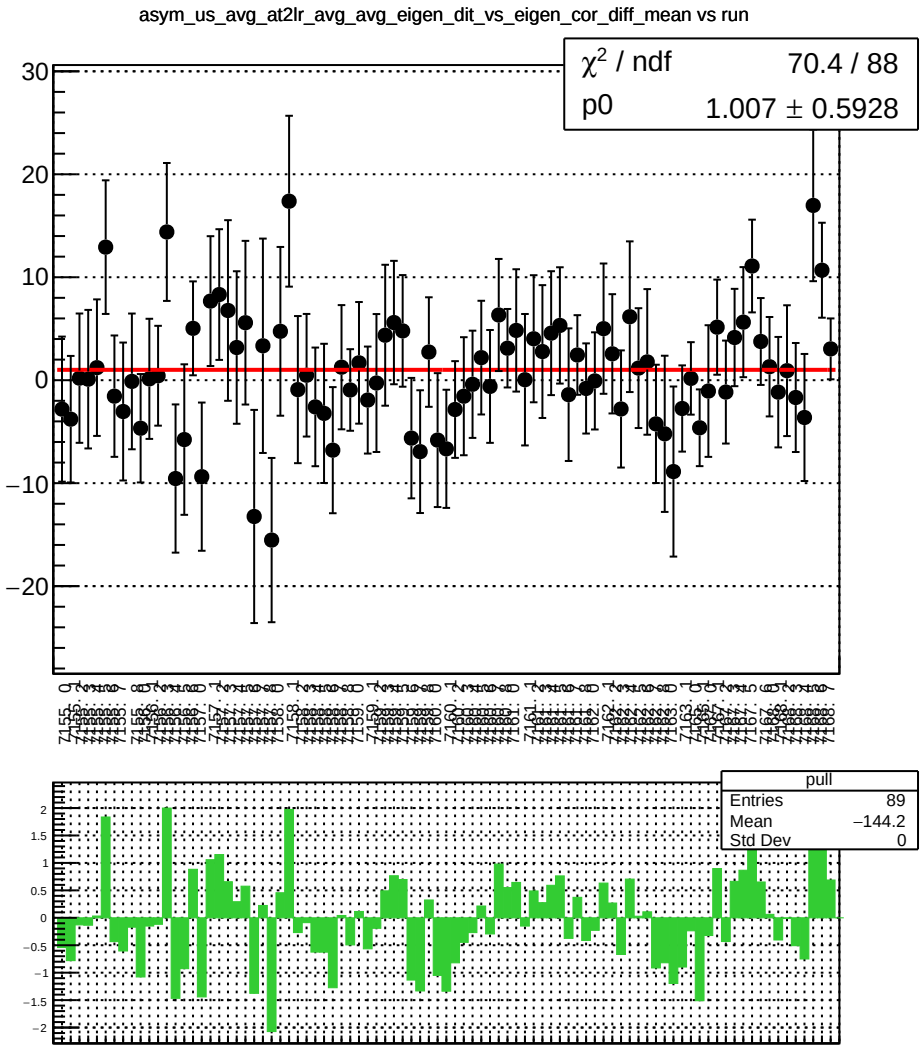

pull1D
Entries 89
Mean 0.02939
Std Dev 0.9485
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

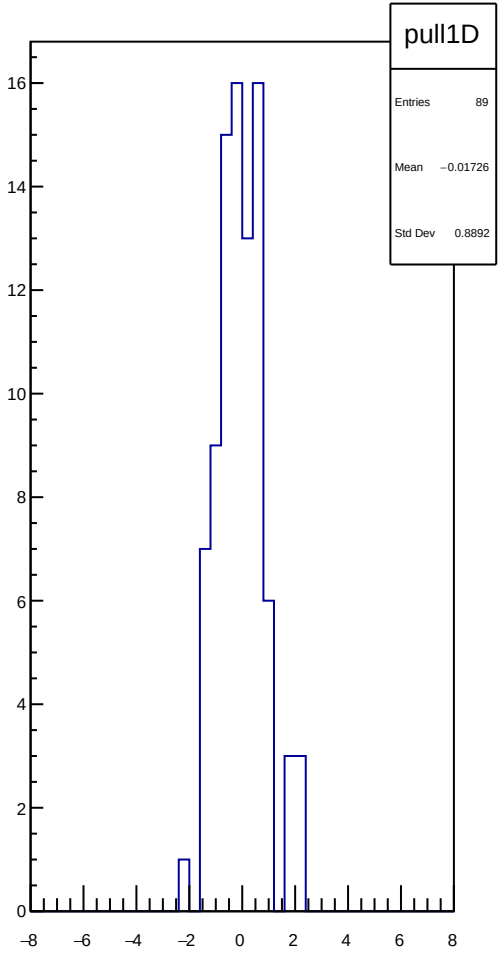

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.517e+05 / 88
p0 0.008601 ± 9.748e−06
0.05
0.04
0.03
0.02
0.01

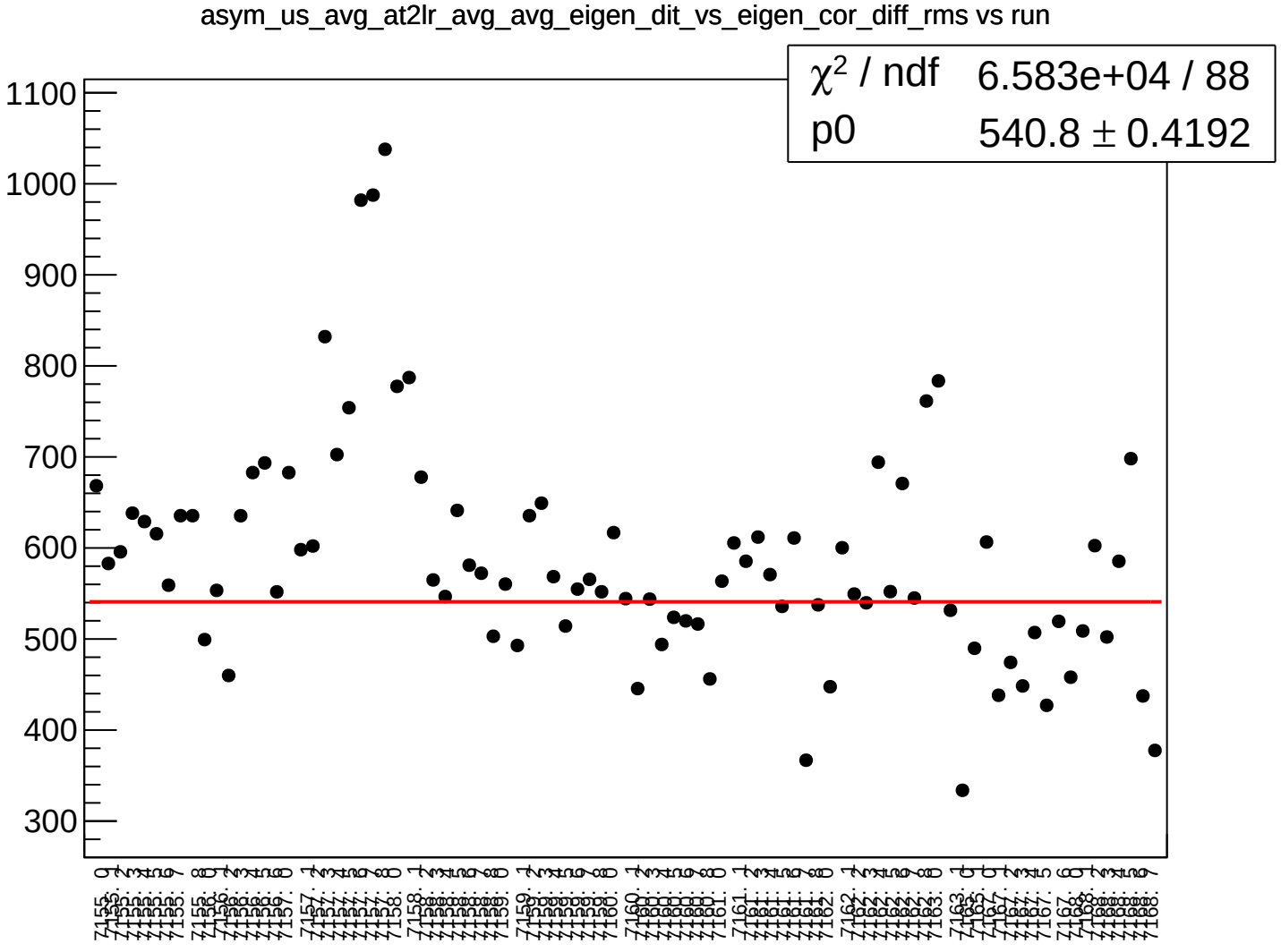

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.4 / 88
p0 1.007 ± 0.5928
pull
Entries 89
Mean −144.2
Std Dev 0

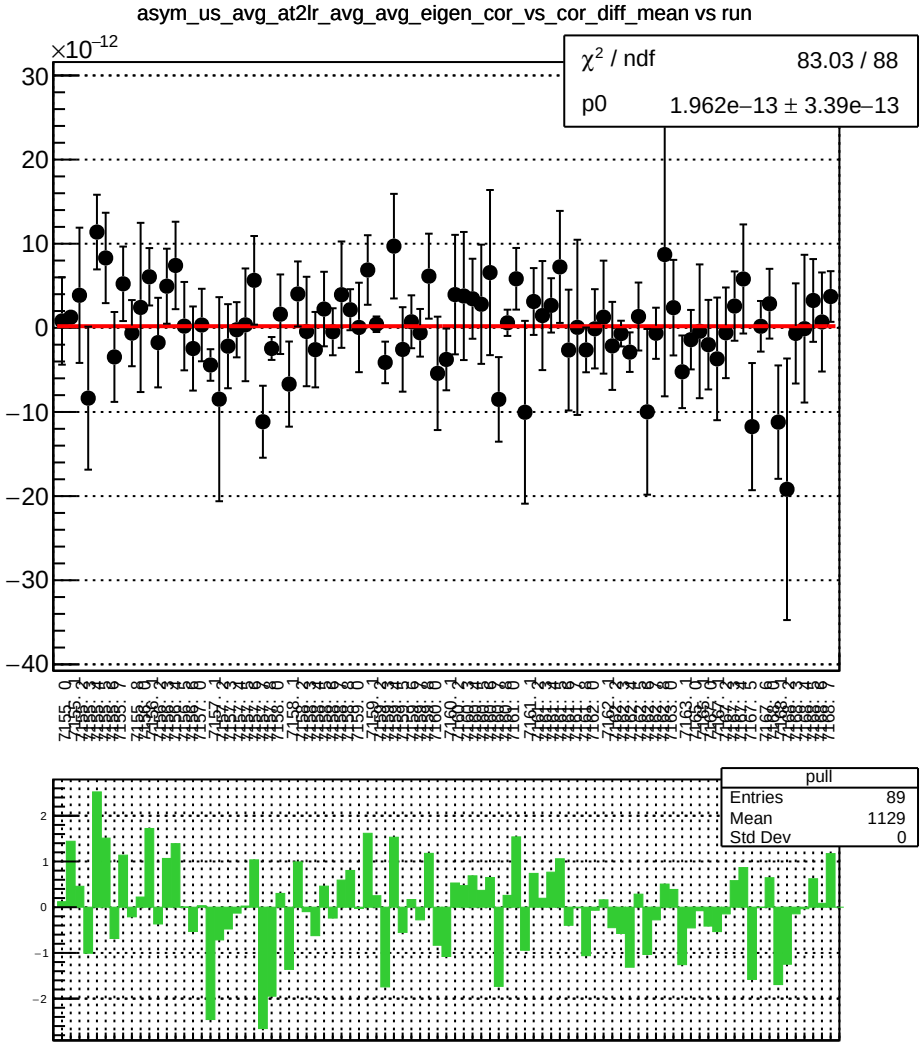

pull1D
Entries 89
Mean −0.01726
Std Dev 0.8892

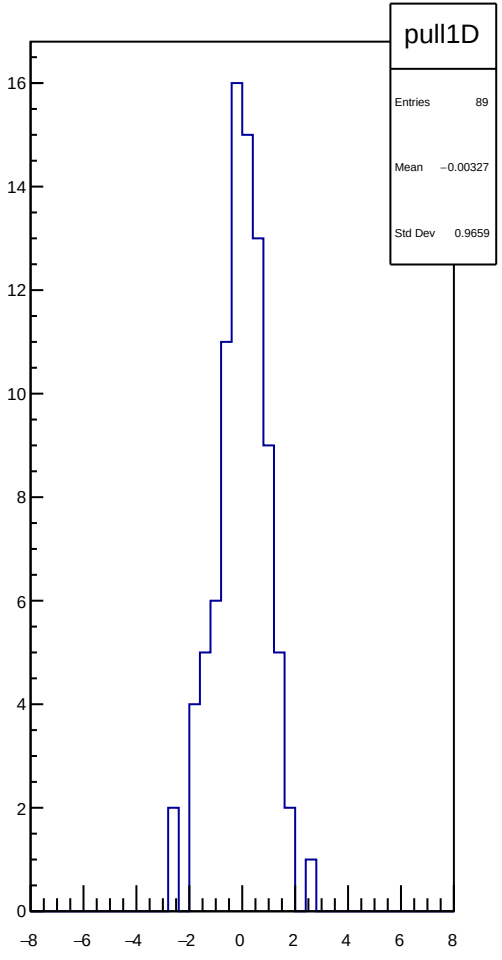

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.583e+04 / 88
p0 540.8 ± 0.4192
1100
1000
900
800
700
600
500
400
300

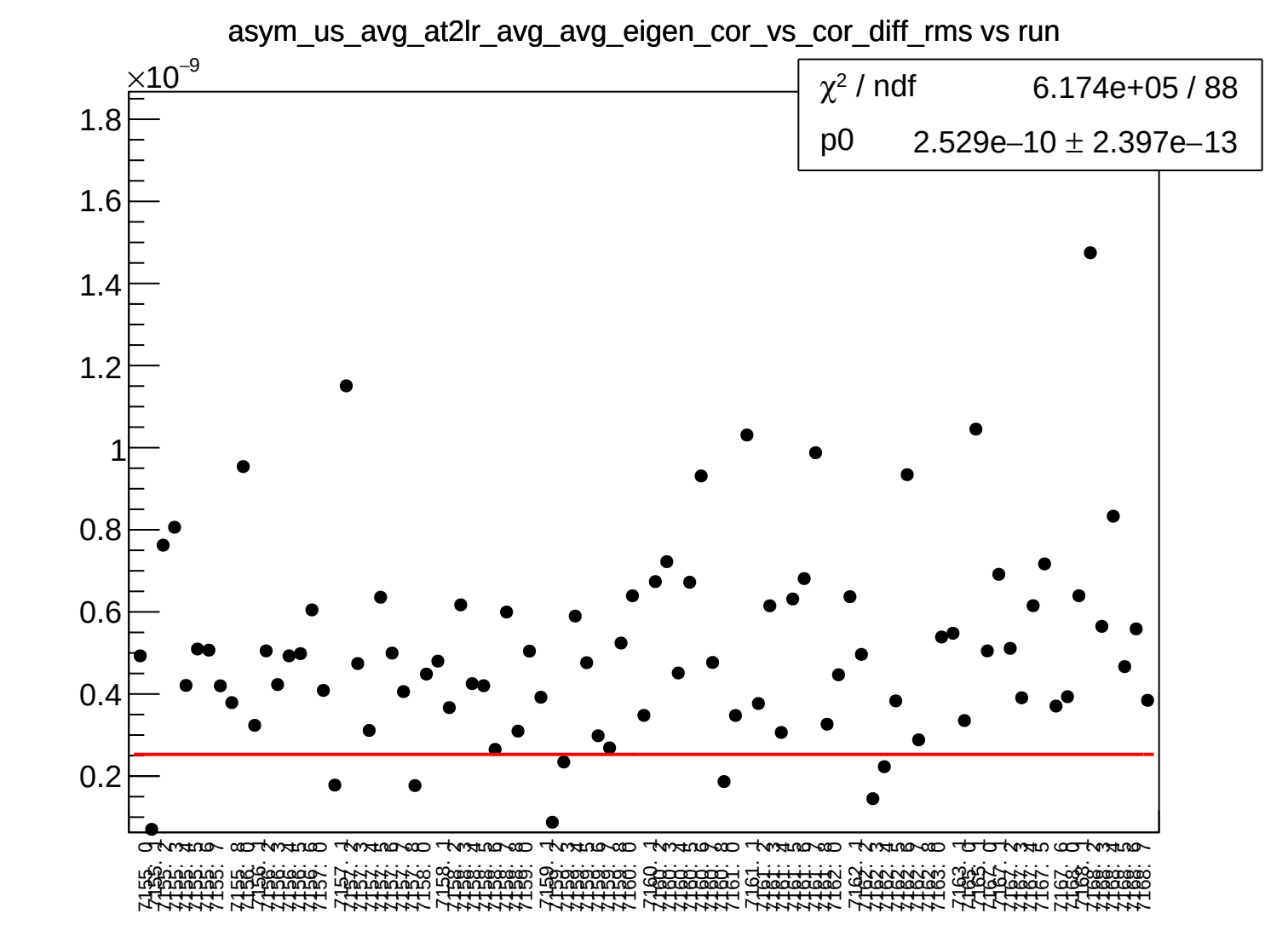

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.4 / 88
p0 1.007 ± 0.5928
pull
Entries 89
Mean −144.2
Std Dev 0

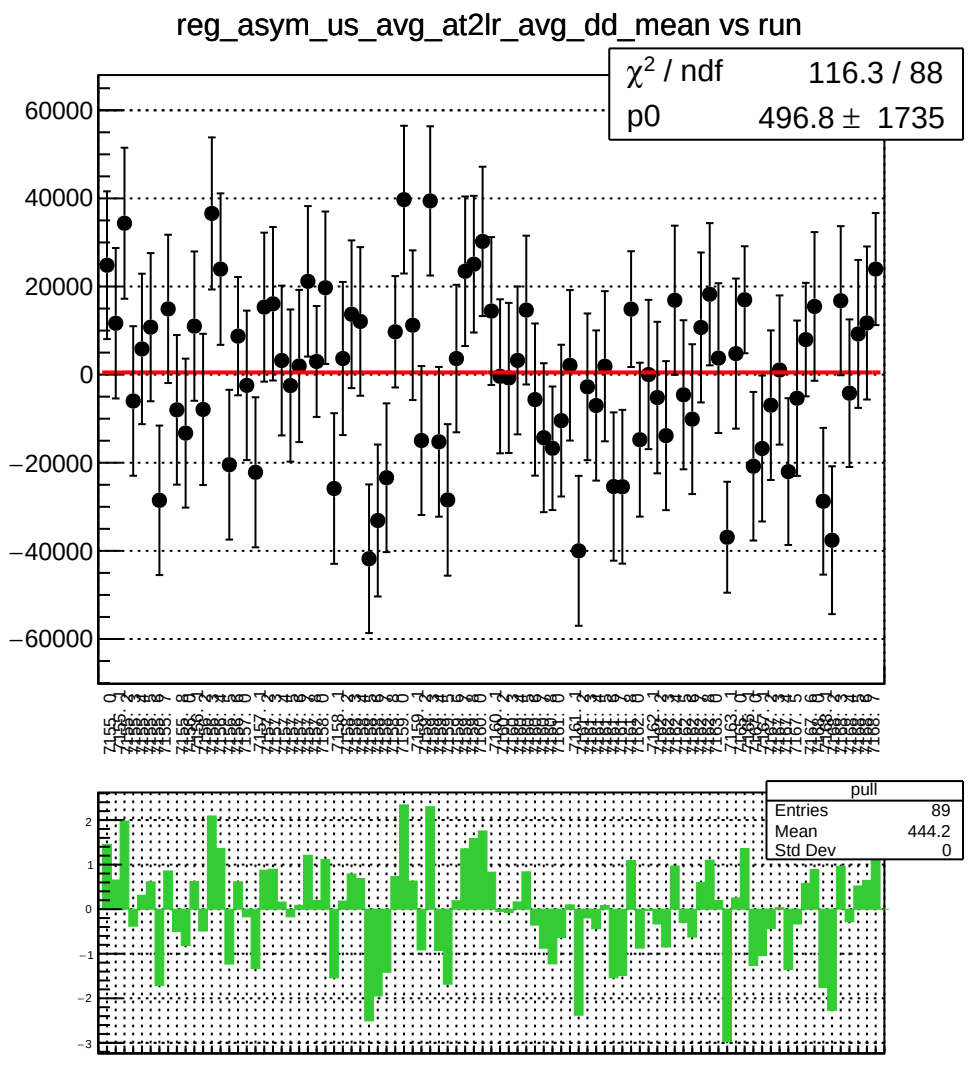

pull1D
Entries 89
Mean −0.01726
Std Dev 0.8892

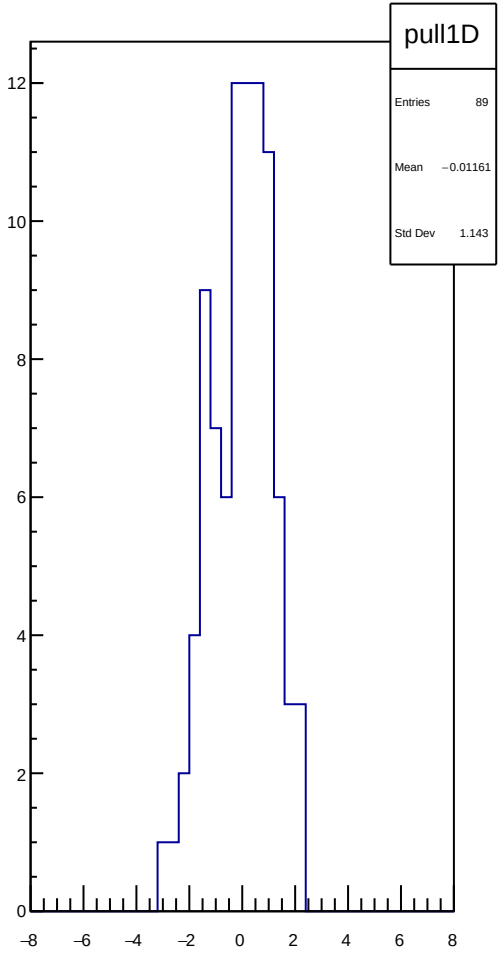

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.583e+04 / 88
p0 540.8 ± 0.4192
1100
1000
900
800
700
600
500
400
300

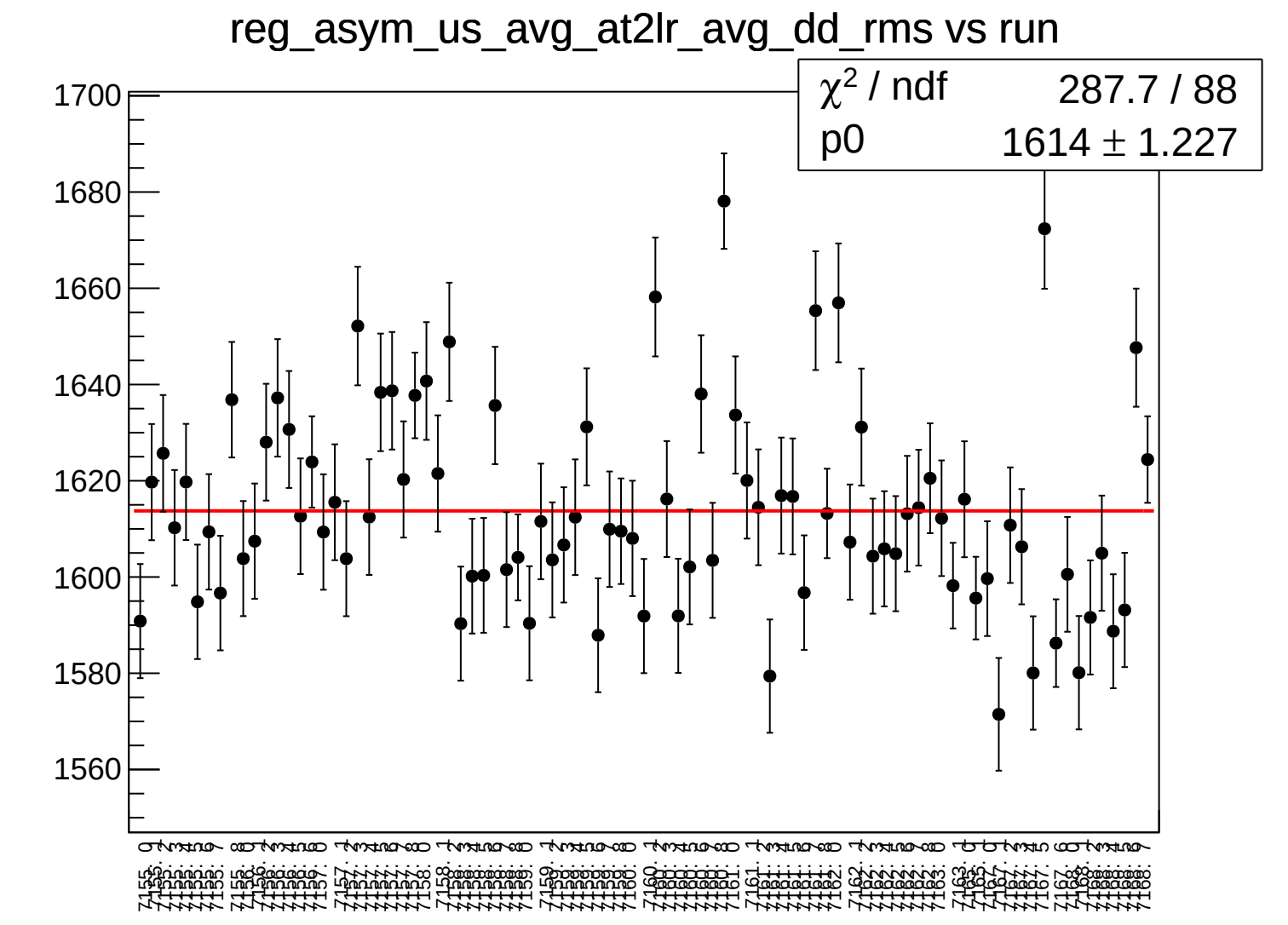

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.03 / 88
p0 1.962e−13 ± 3.39e−13
pull
Entries 89
Mean 1129
Std Dev 0

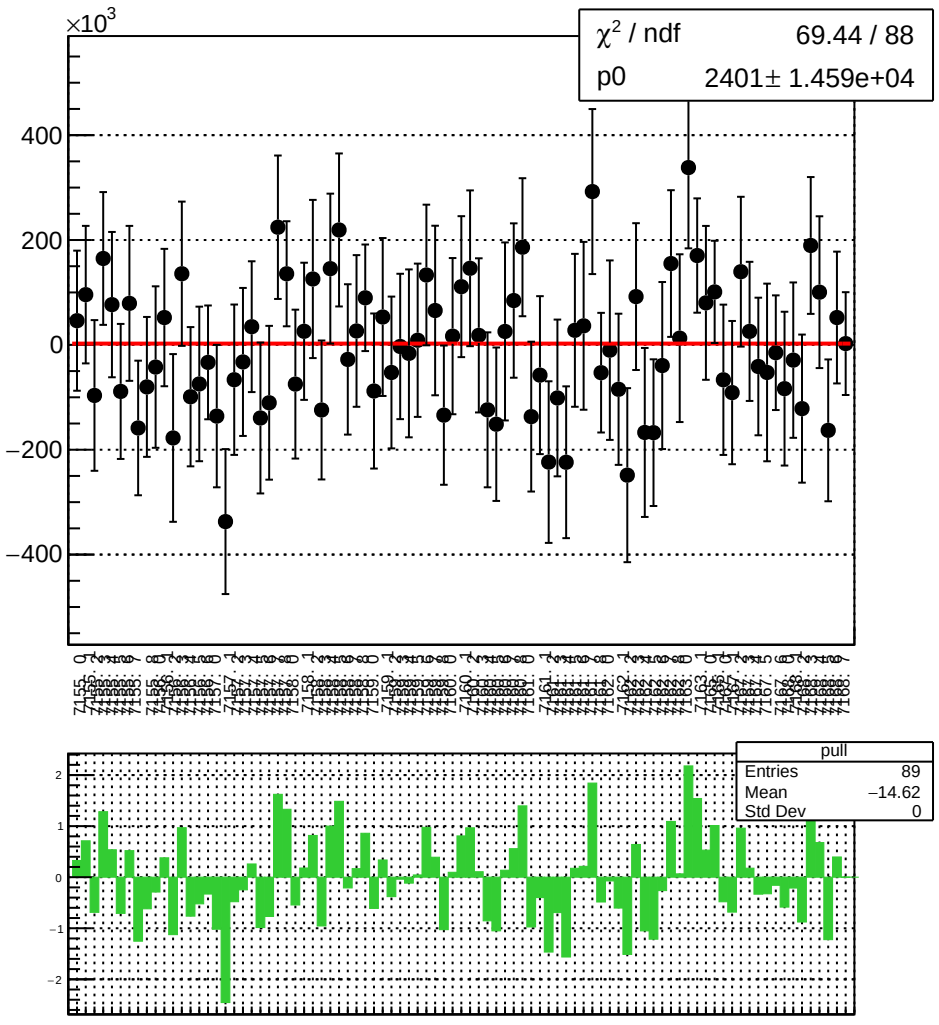

pull1D
Entries 89
Mean −0.00327
Std Dev 0.9659

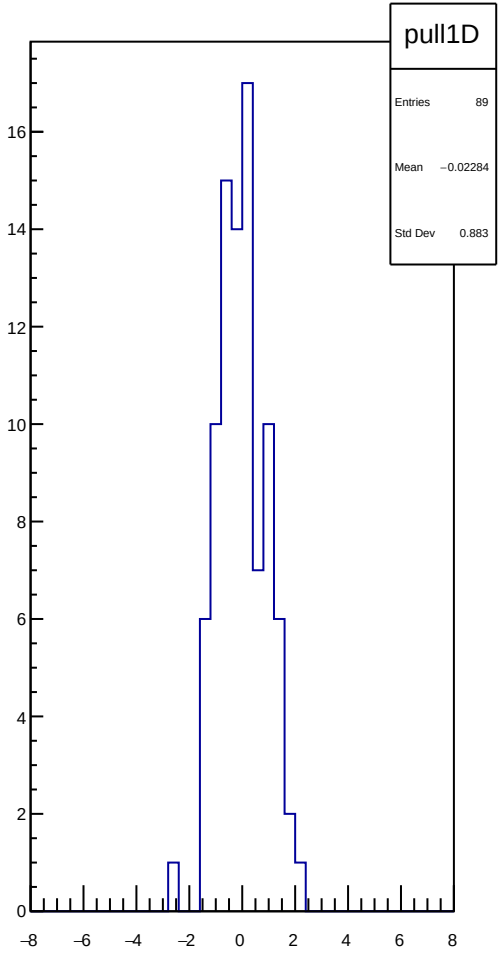

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.174e+05 / 88
p0 2.529e−10 ± 2.397e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

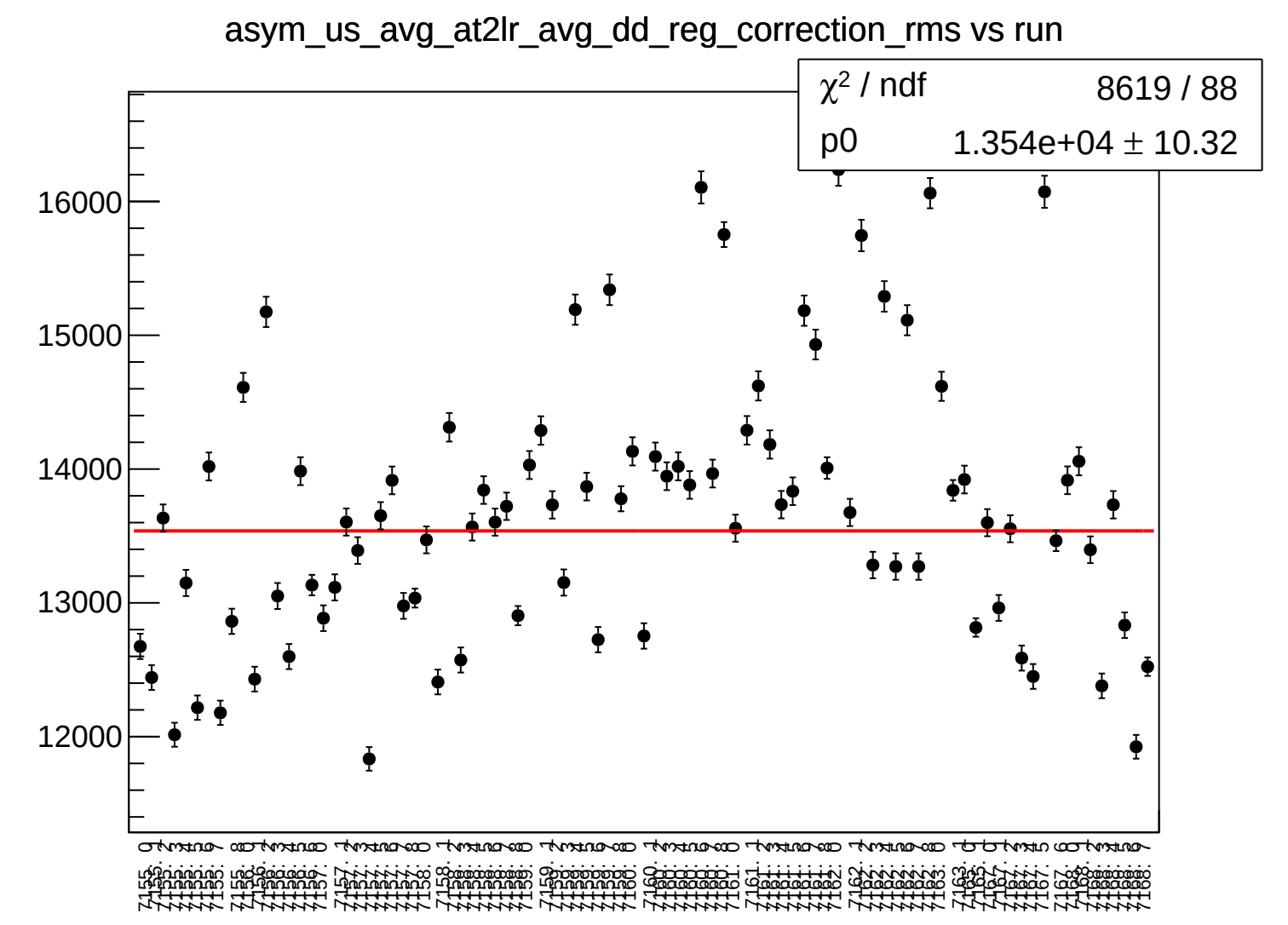

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.3 / 88
p0 496.8 ± 1735
pull
Entries 89
Mean 444.2
Std Dev 0

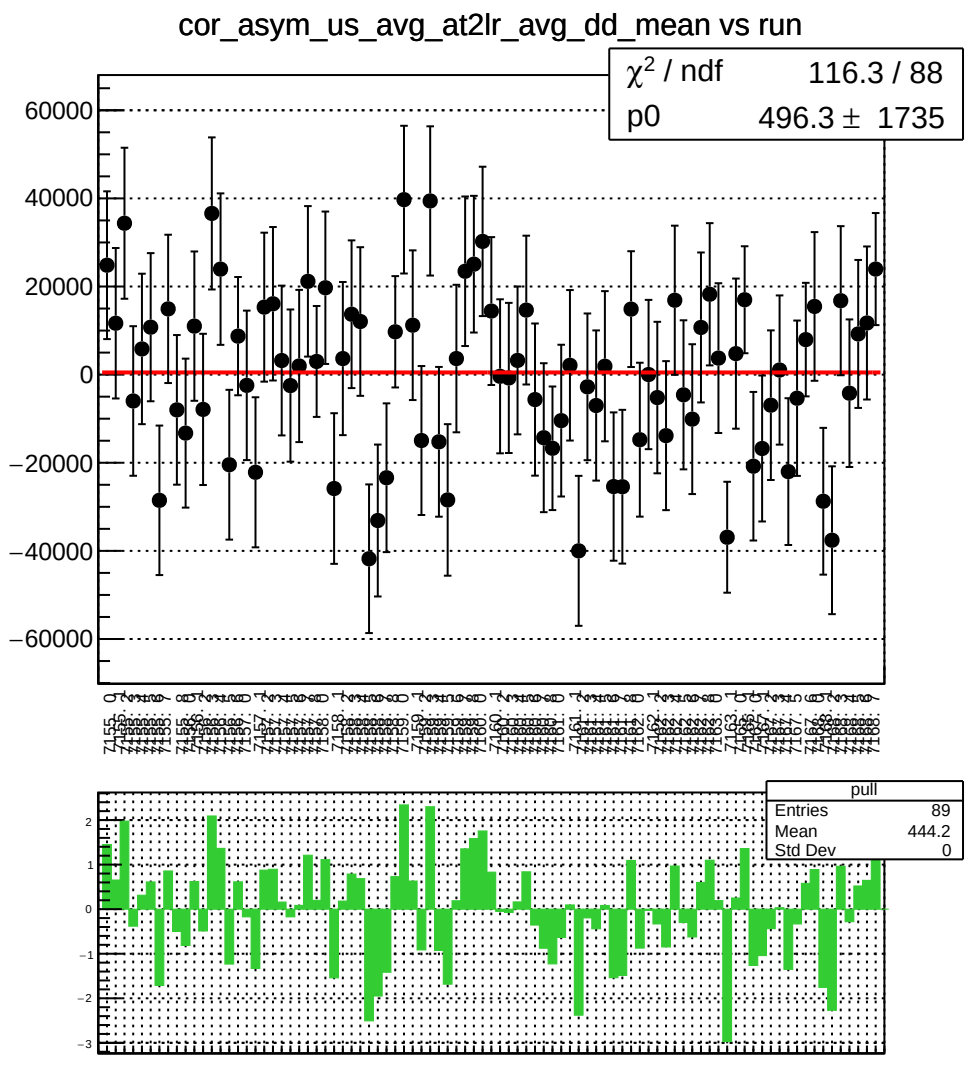

pull1D
Entries 89
Mean −0.01161
Std Dev 1.143

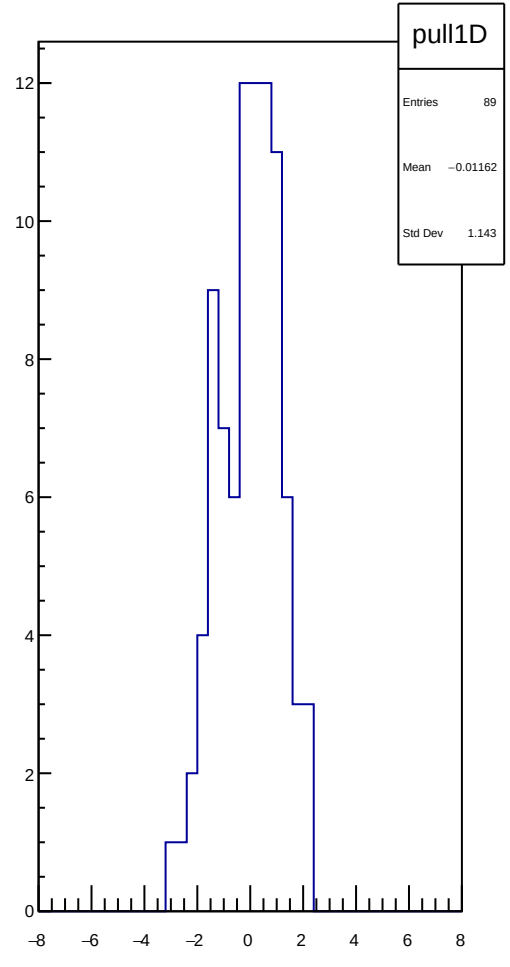

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 287.7 / 88
p0 1614 ± 1.227
1700
1680
1660
1640
1620
1600
1580
1560

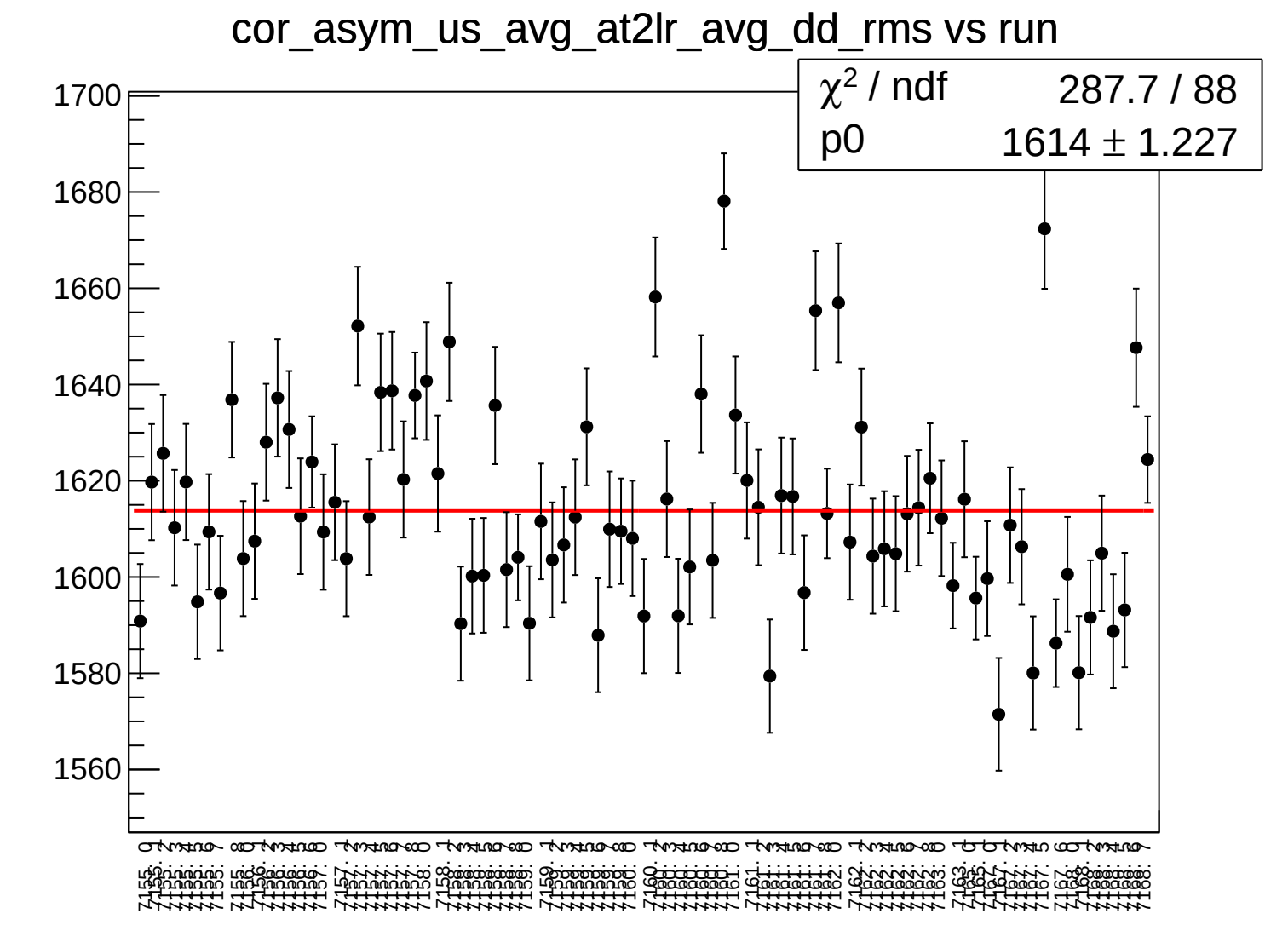

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 69.44 / 88
p0 2401± 1.459e+04
400
200
0
−200
−400
pull
Entries 89
Mean −14.62
Std Dev 0
2
1
0
−1
−2

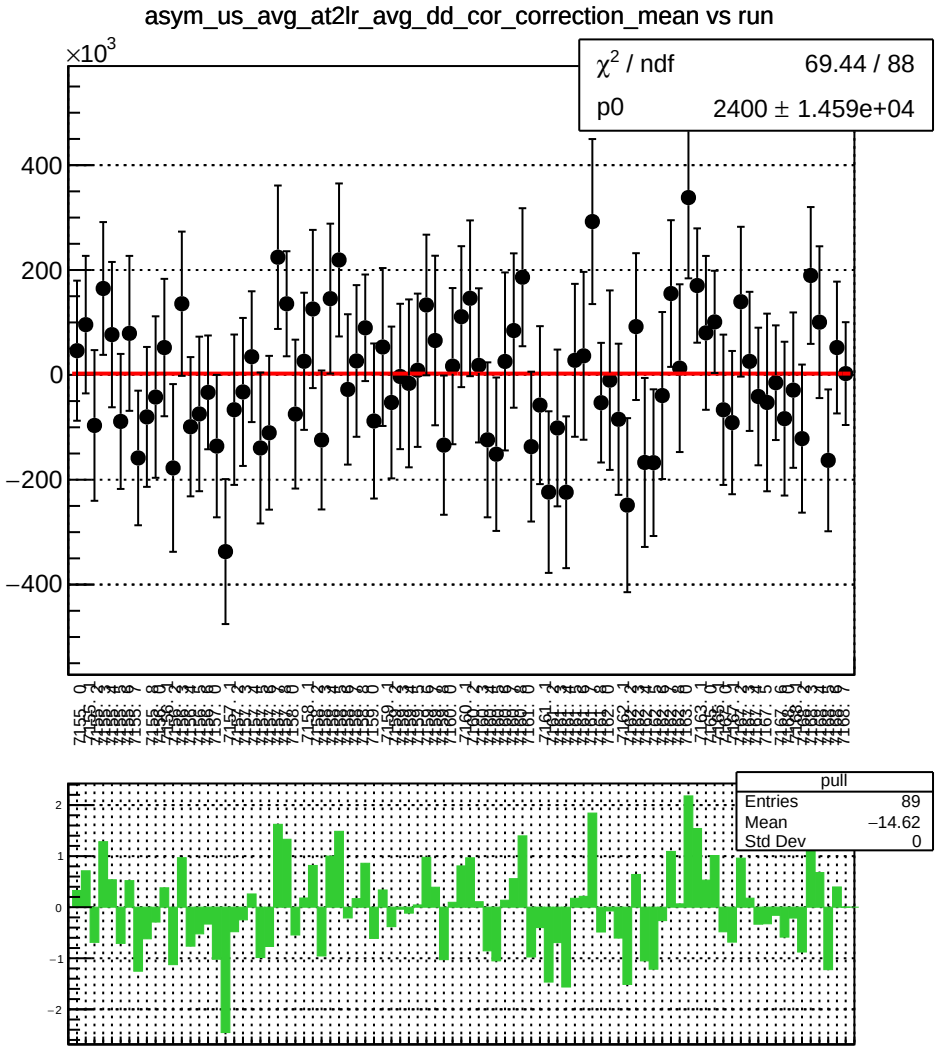

pull1D
Entries 89
Mean −0.02284
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

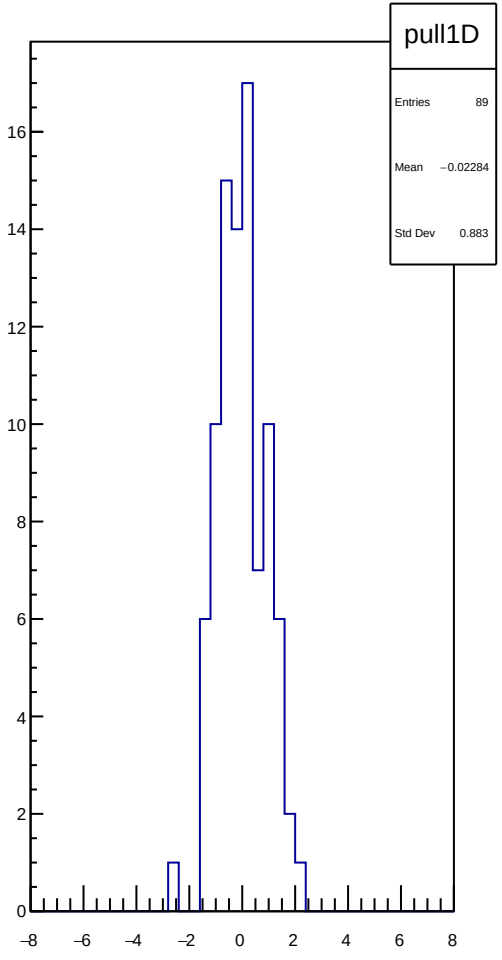

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 8619 / 88
p0 1.354e+04 ± 10.32
16000
15000
14000
13000
12000

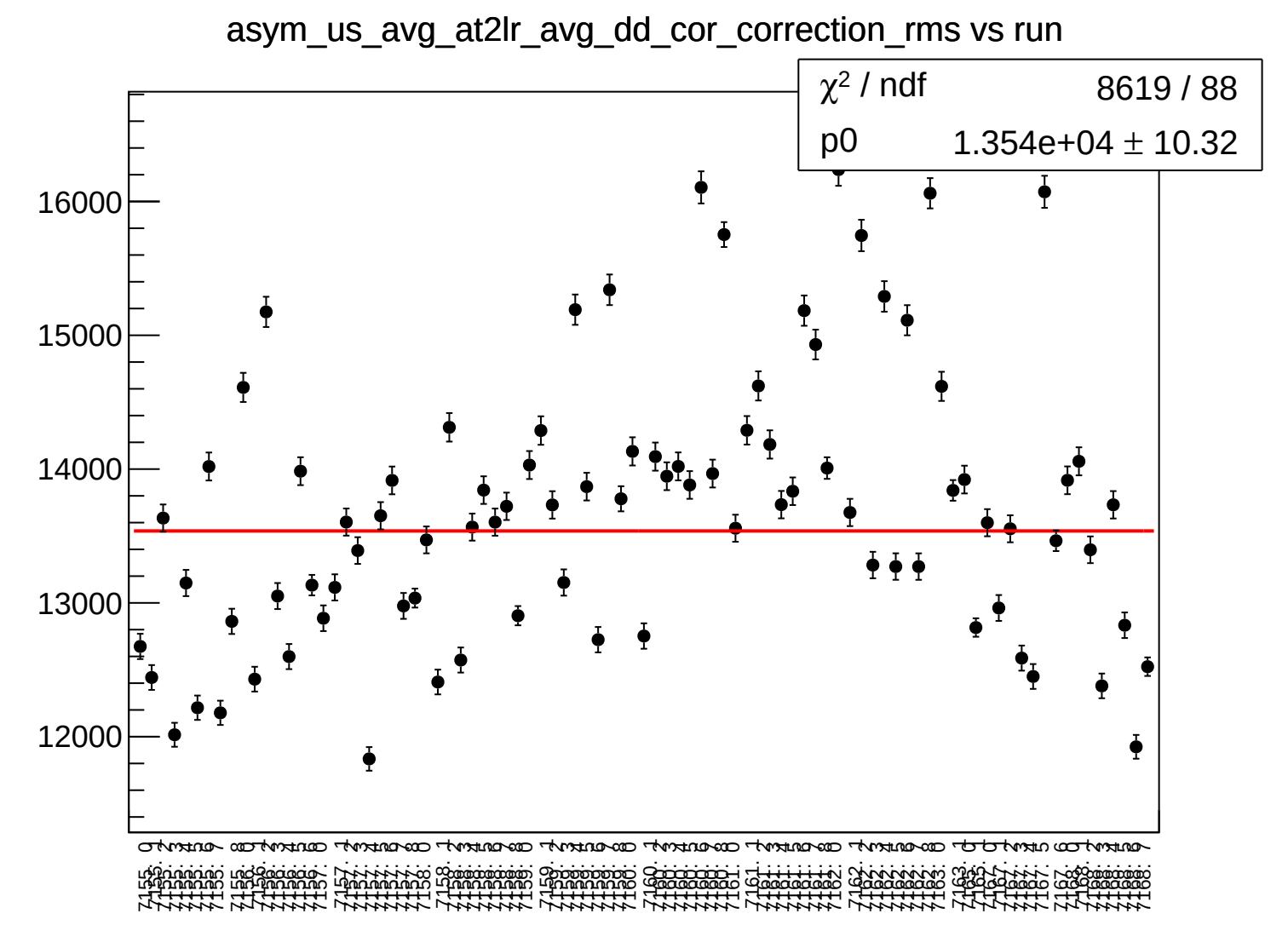

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.3 / 88
p0 496.3 ± 1735
pull
Entries 89
Mean 444.2
Std Dev 0

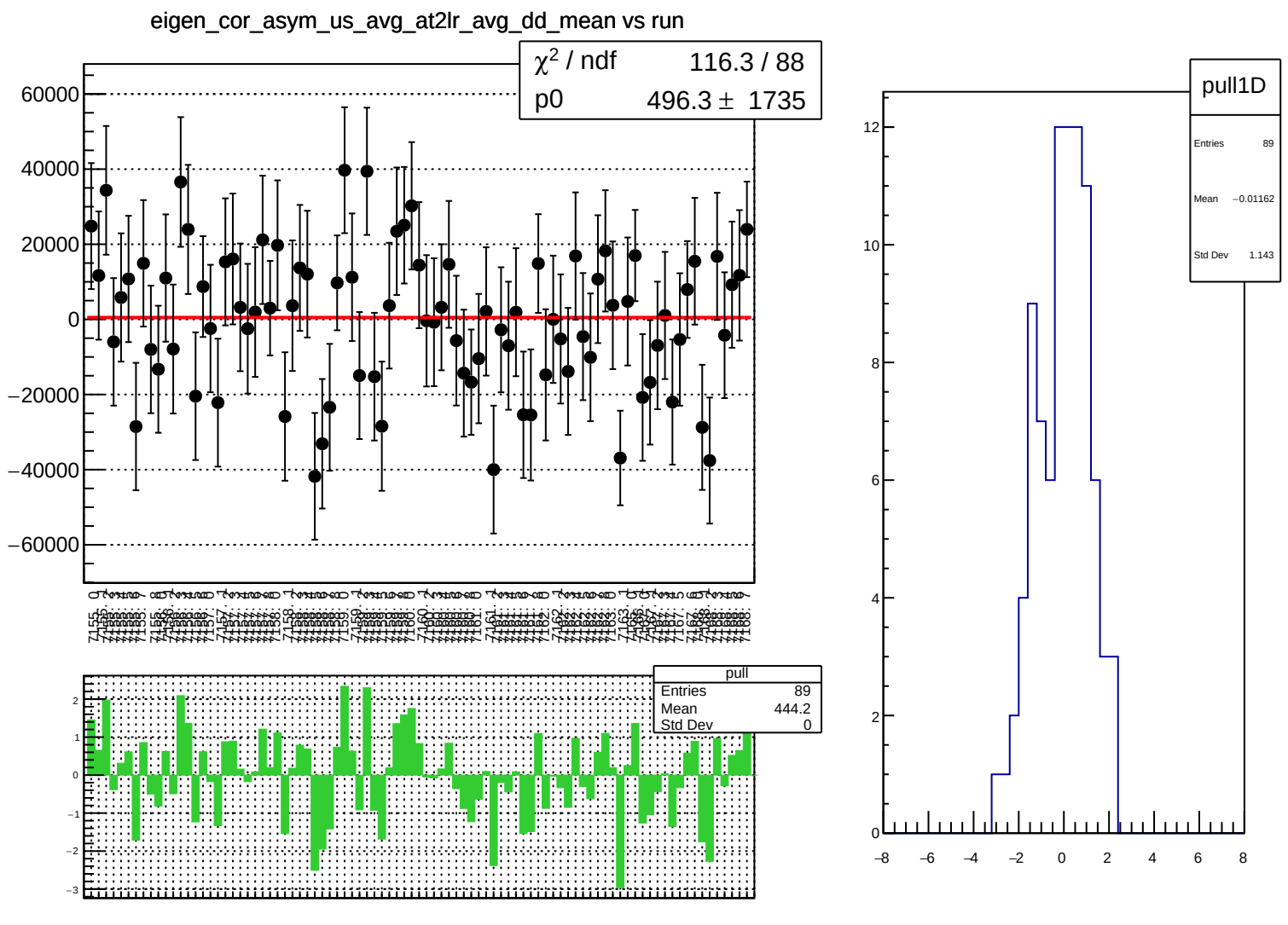

pull1D
Entries 89
Mean −0.01162
Std Dev 1.143

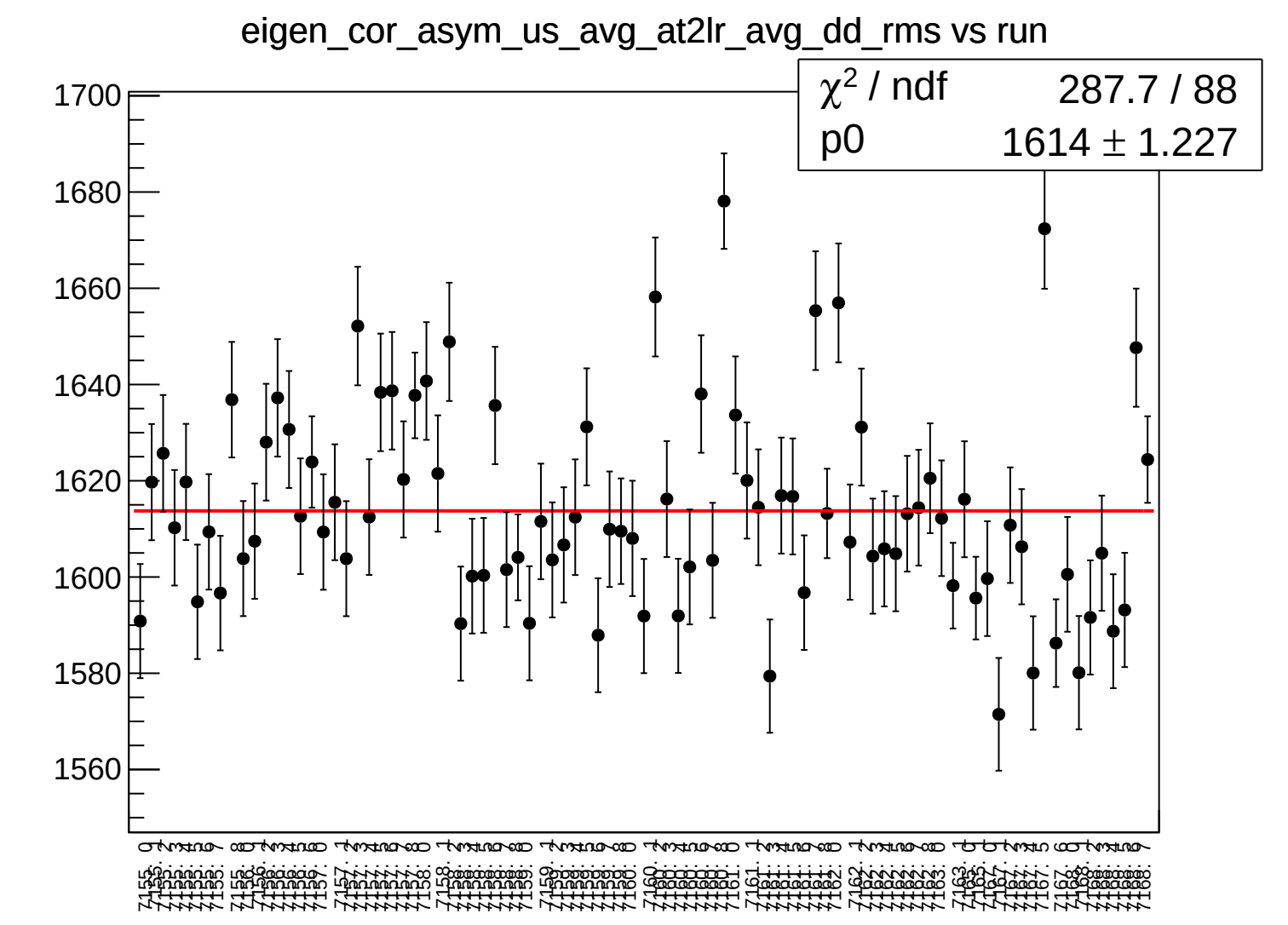

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 287.7 / 88
p0 1614 ± 1.227
1700
1680
1660
1640
1620
1600
1580
1560

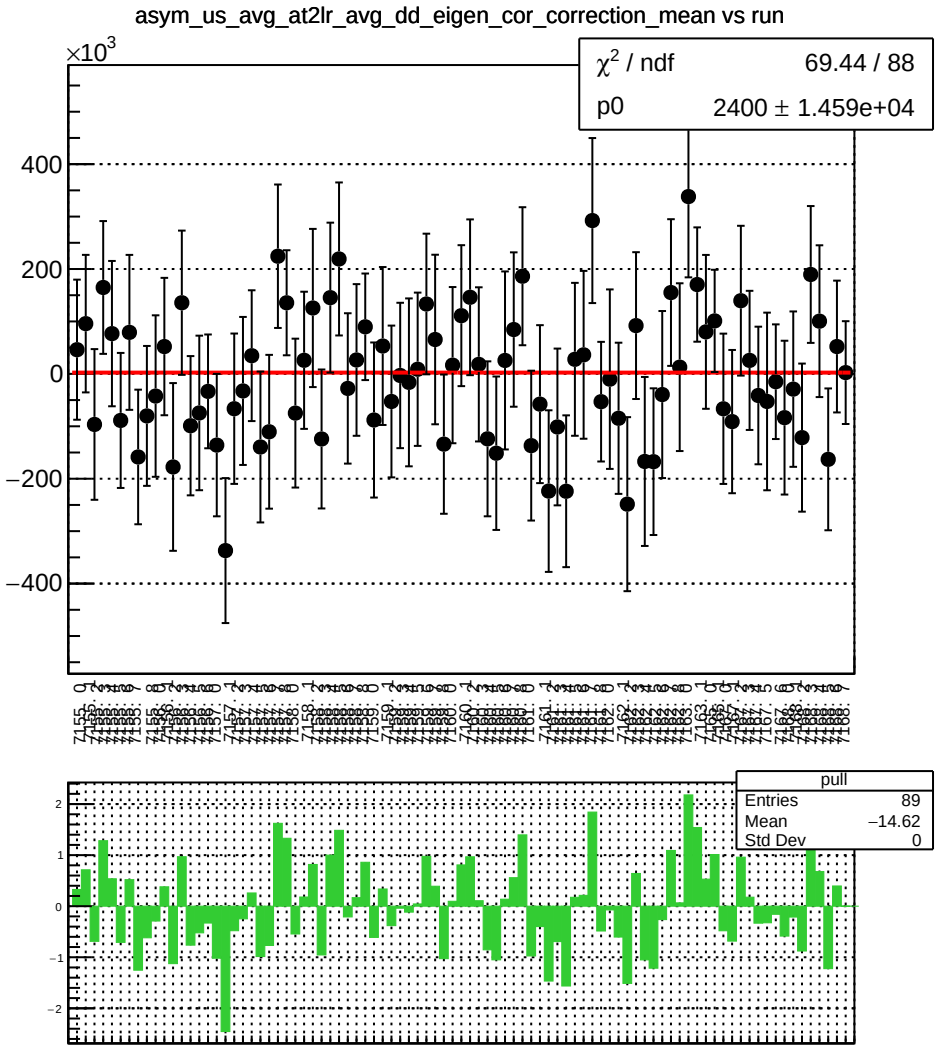

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.44 / 88
p0 2400 ± 1.459e+04
400
200
0
−200
−400
pull
Entries 89
Mean −14.62
Std Dev 0
2
1
0
−1
−2

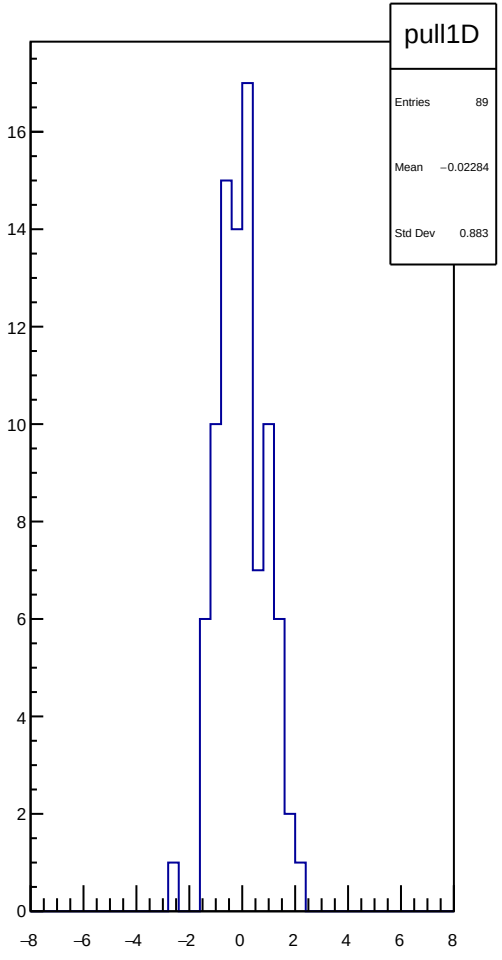

pull1D
Entries 89
Mean −0.02284
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

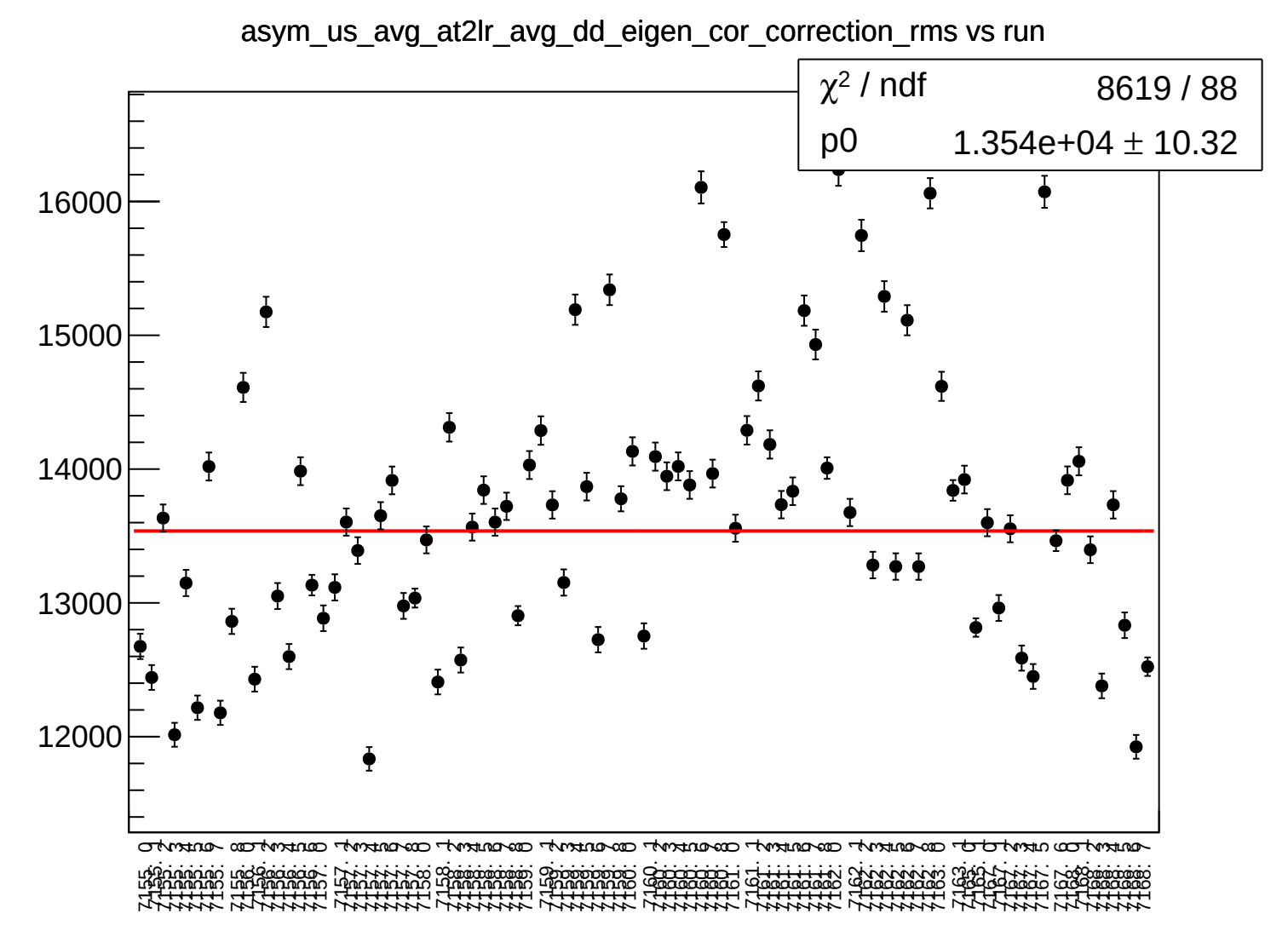

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 8619 / 88
p0 1.354e+04 ± 10.32
16000
15000
14000
13000
12000

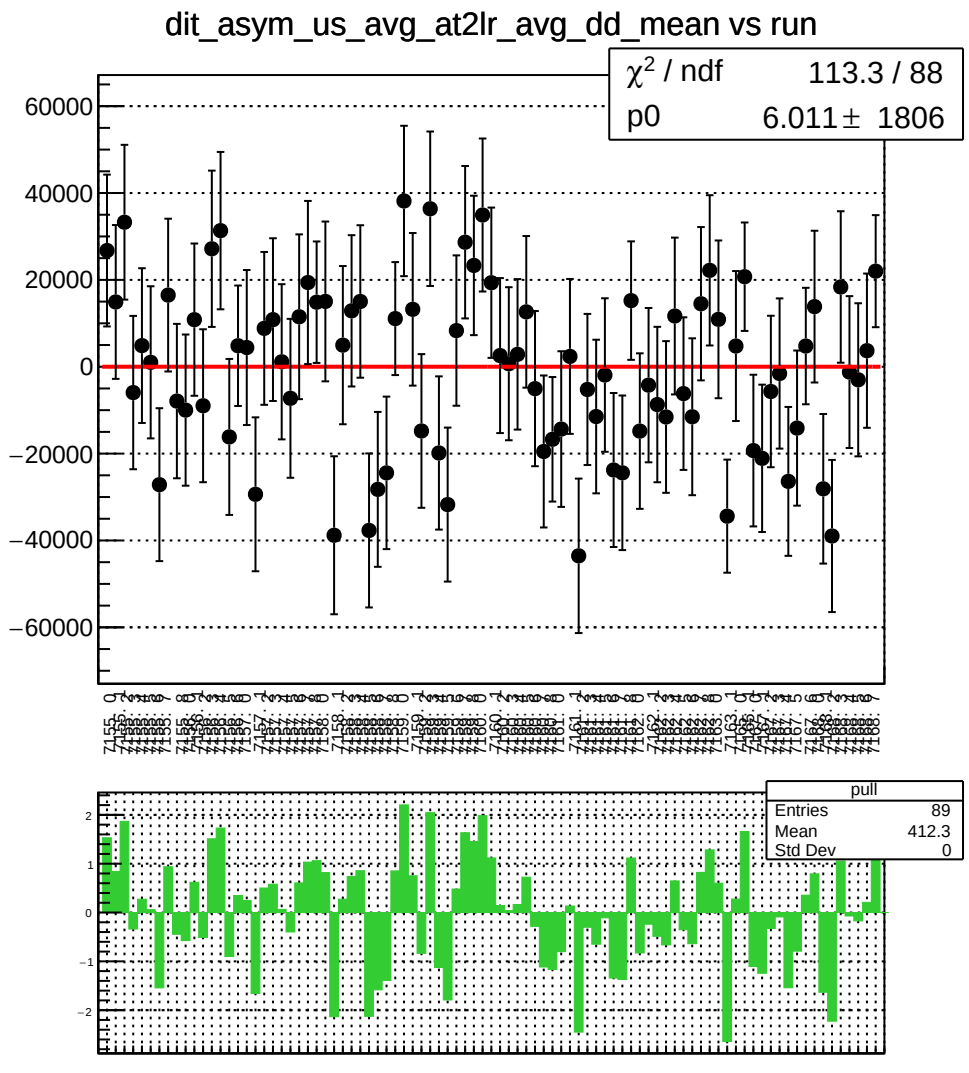

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 116.3 / 88
p0 496.3 ± 1735
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 444.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01162
Std Dev 1.143
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

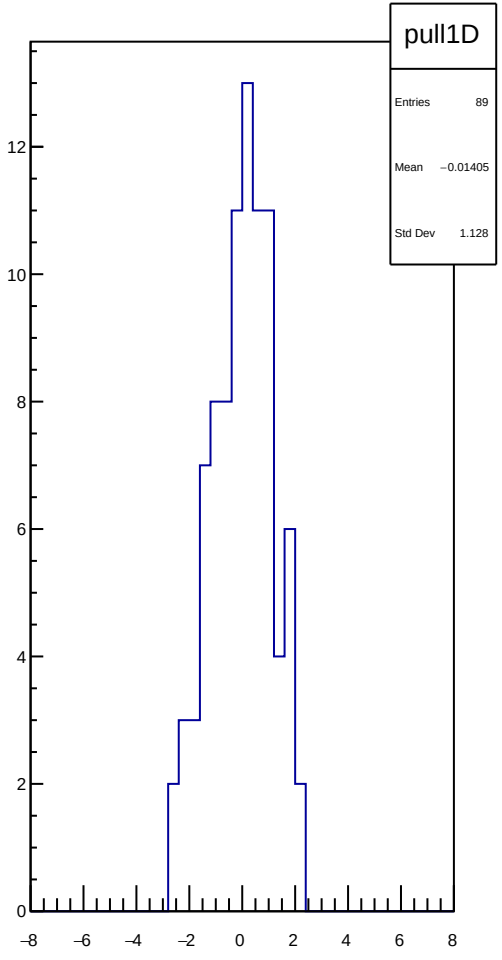

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 287.7 / 88
p0 1614 ± 1.227
1700
1680
1660
1640
1620
1600
1580
1560

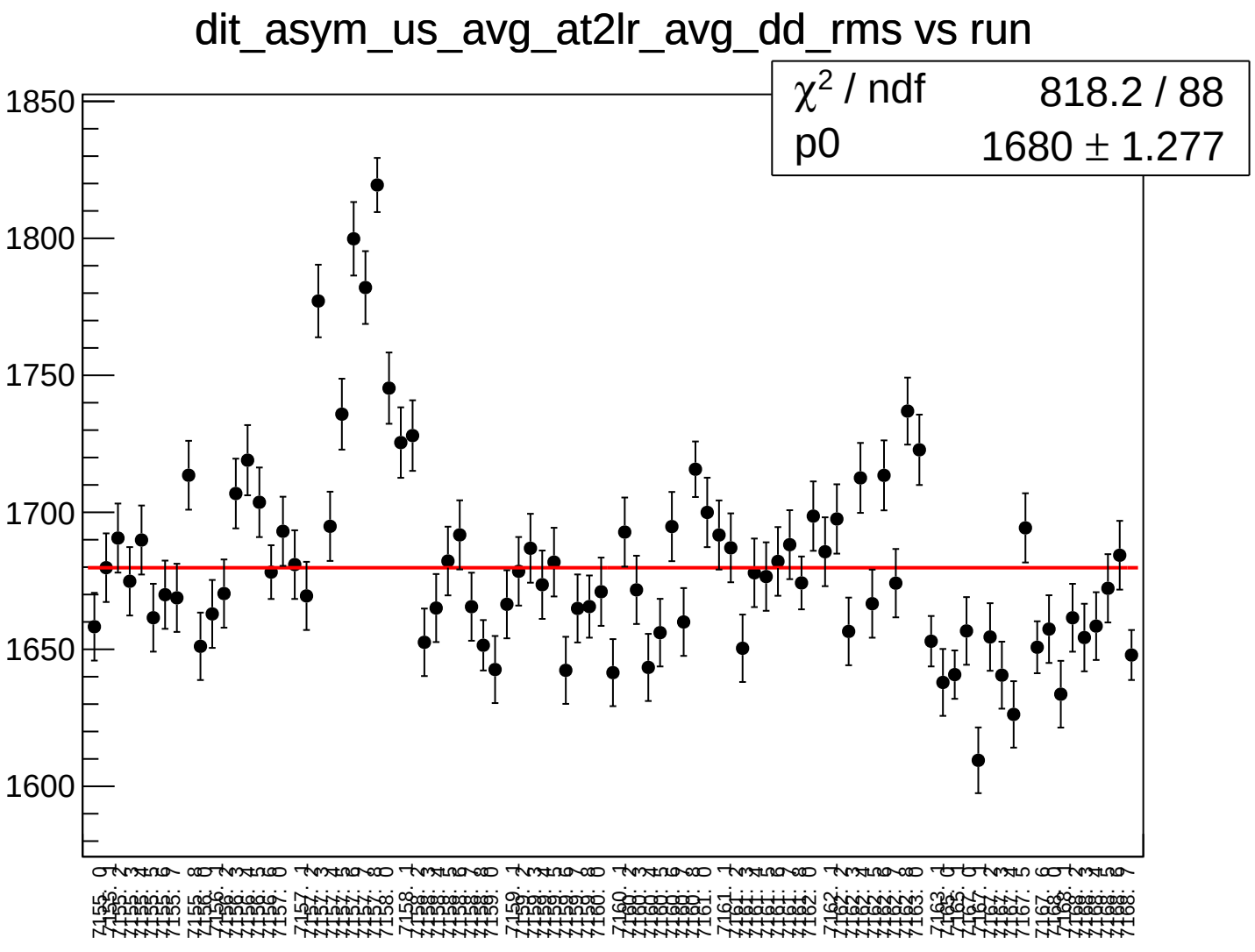

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.44 / 88
p0 2400 ± 1.459e+04
400
200
0
−200
−400
pull
Entries 89
Mean −14.62
Std Dev 0
2
1
0
−1
−2

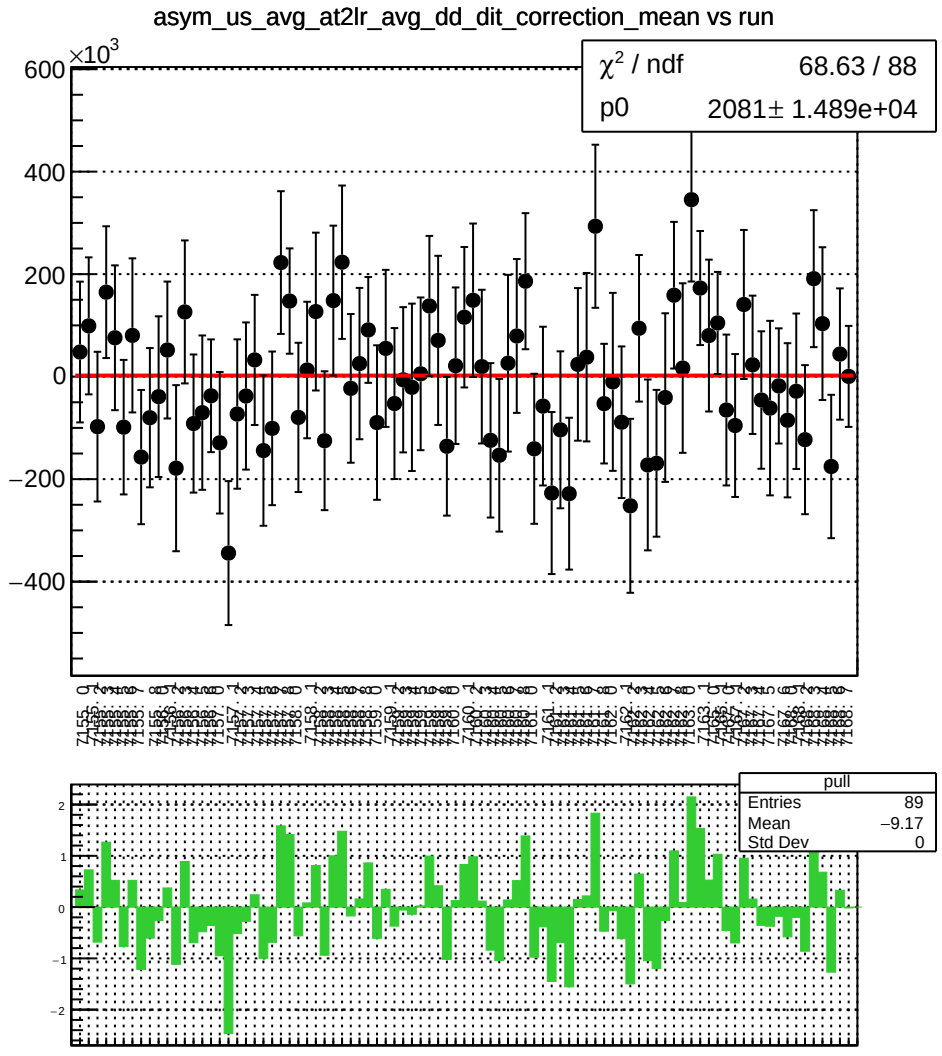

pull1D
Entries 89
Mean −0.02284
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

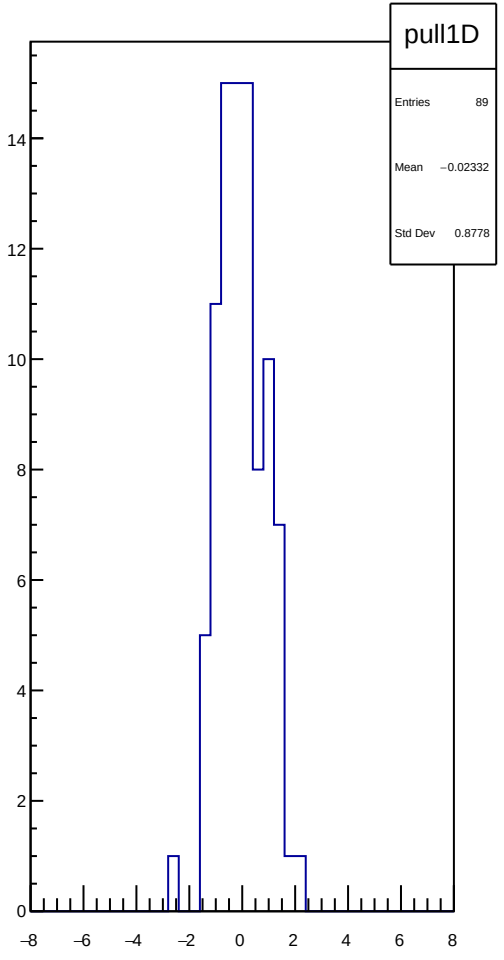

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8619 / 88
p0 1.354e+04 ± 10.32
16000
15000
14000
13000
12000

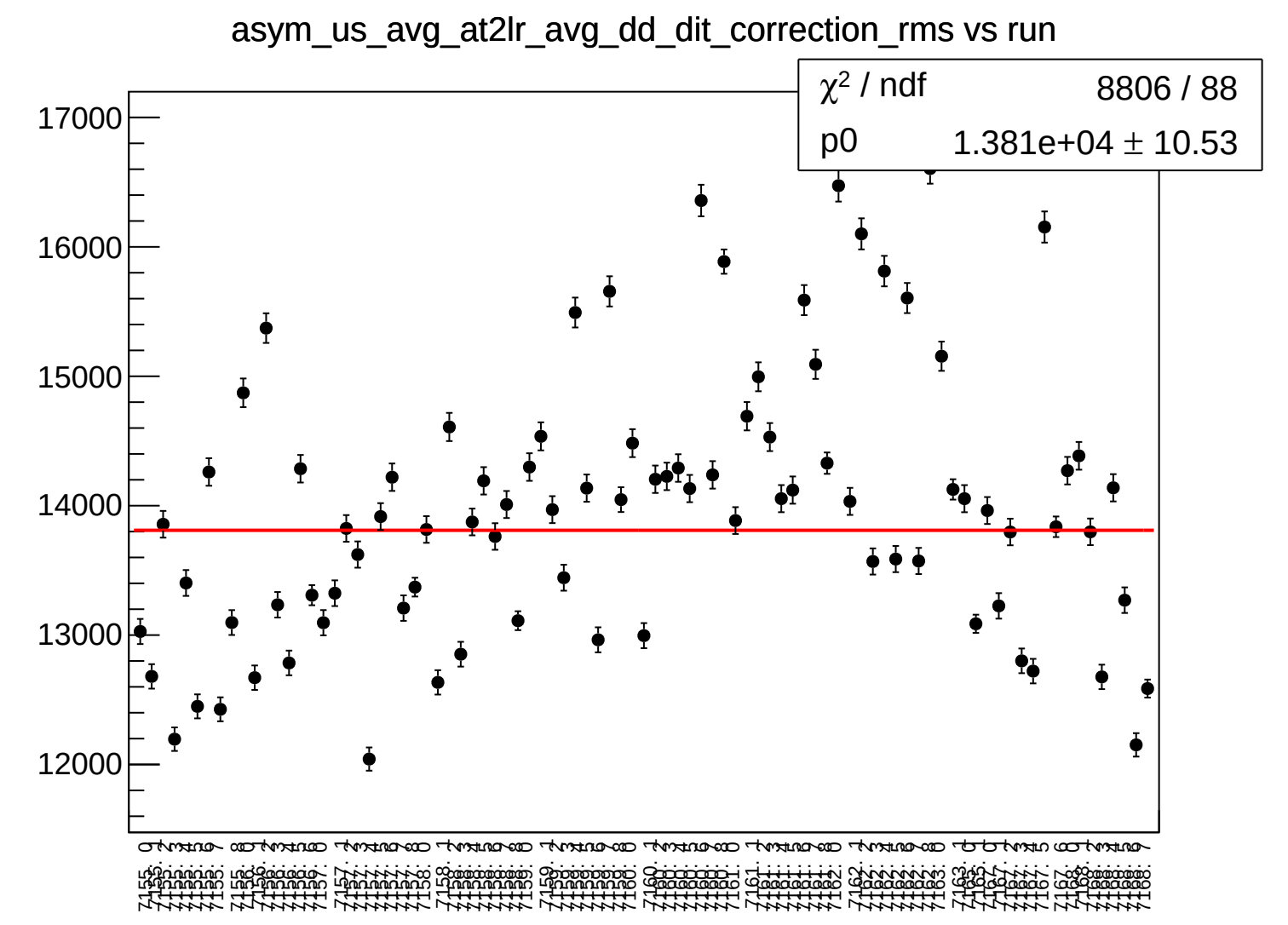

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.3 / 88
p0 6.011 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 412.3
Std Dev 0
2
1
0
−1
−2

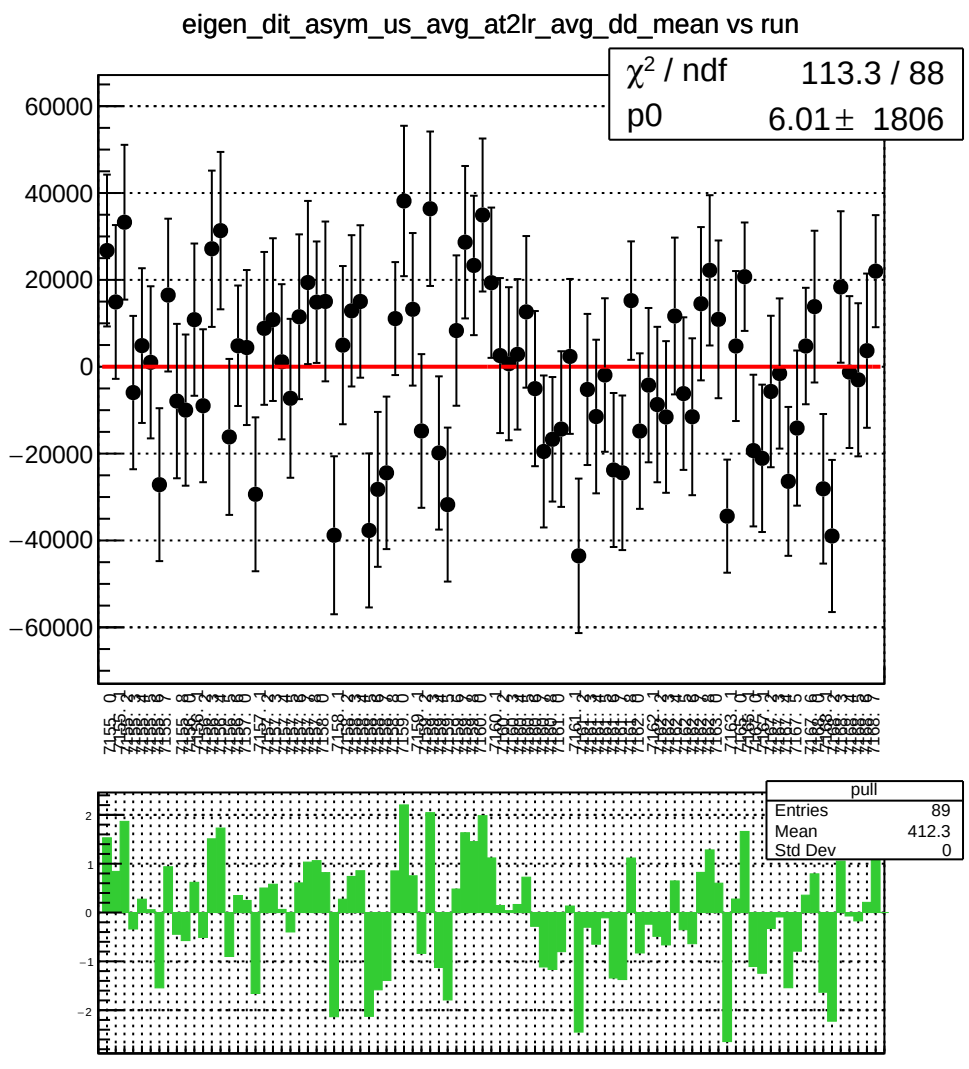

pull1D
Entries 89
Mean −0.01405
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

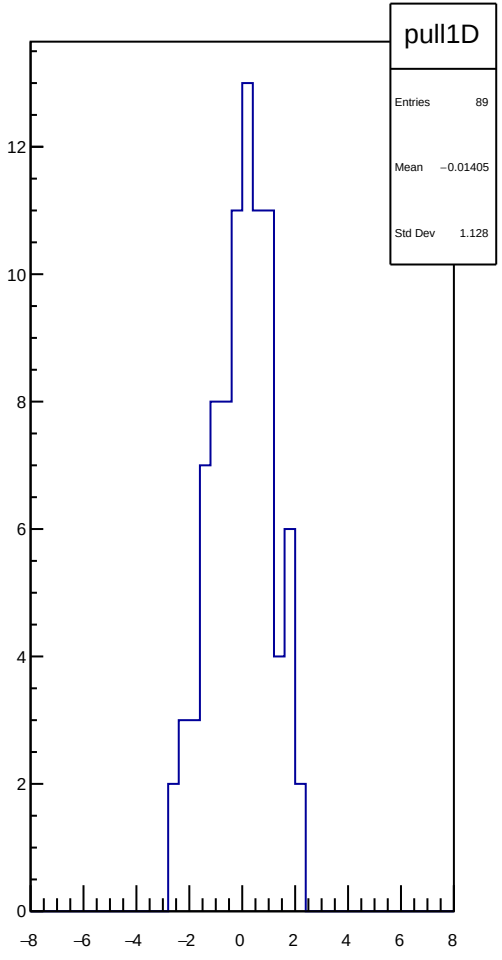

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 818.2 / 88
p0 1680 ± 1.277
1850
1800
1750
1700
1650
1600

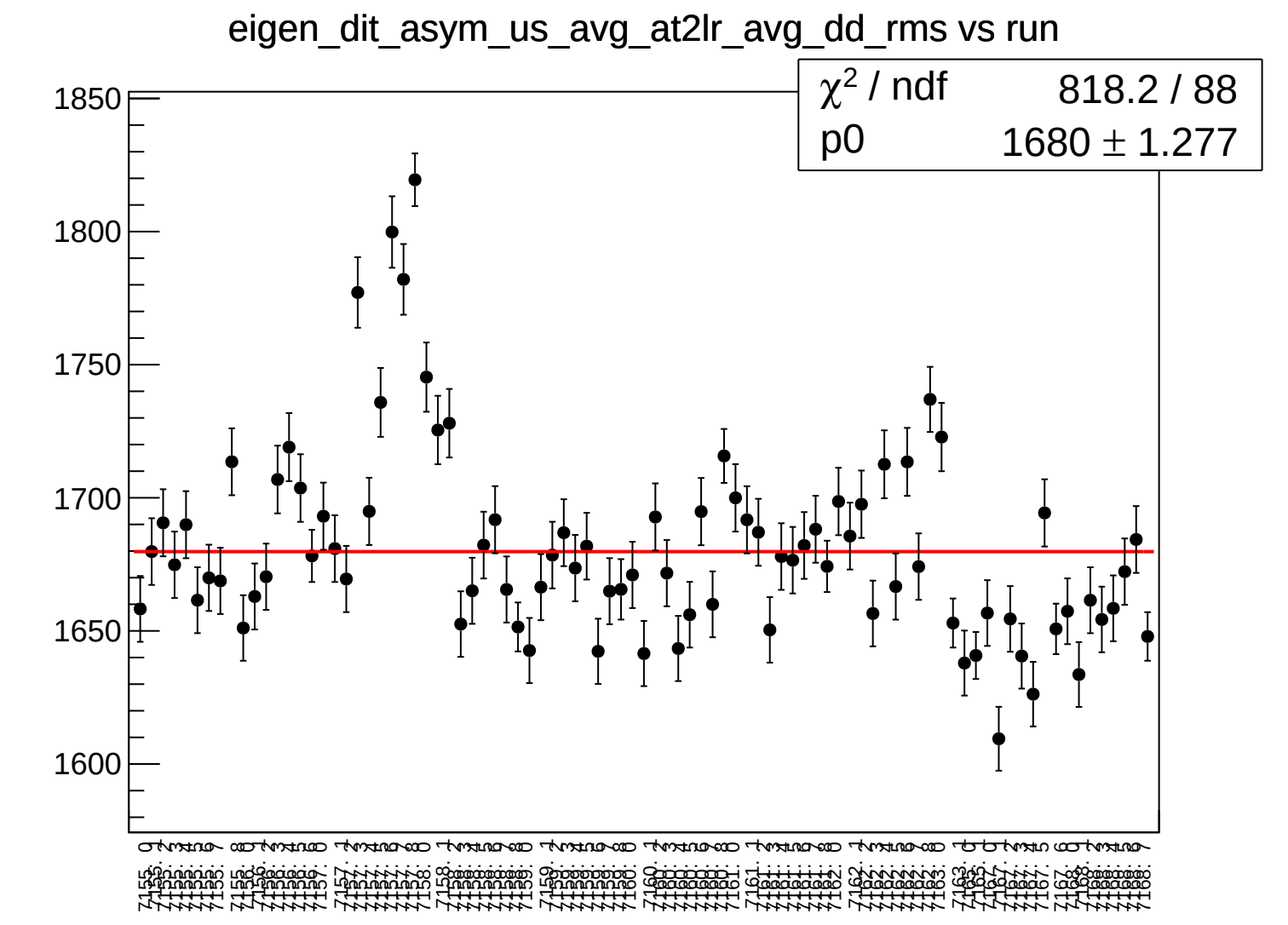

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 68.63 / 88
p0 2081± 1.489e+04
pull
Entries 89
Mean −9.17
Std Dev 0
2
1
0
−1
−2

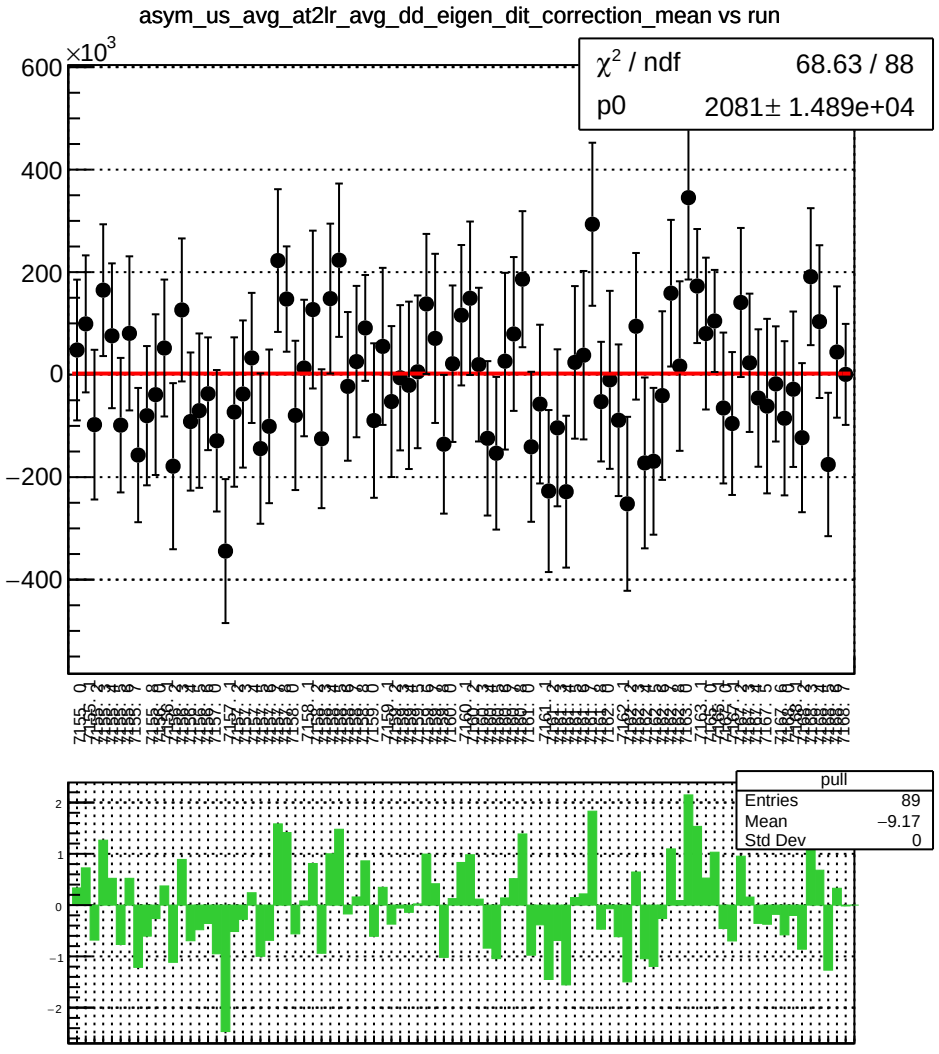

pull1D
Entries 89
Mean −0.02332
Std Dev 0.8778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

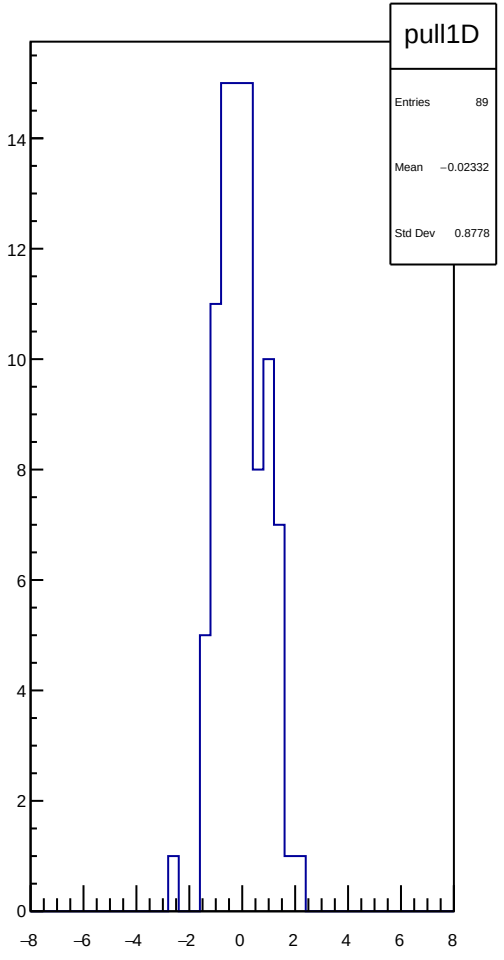

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 8806 / 88
p0 1.381e+04 ± 10.53
17000
16000
15000
14000
13000
12000

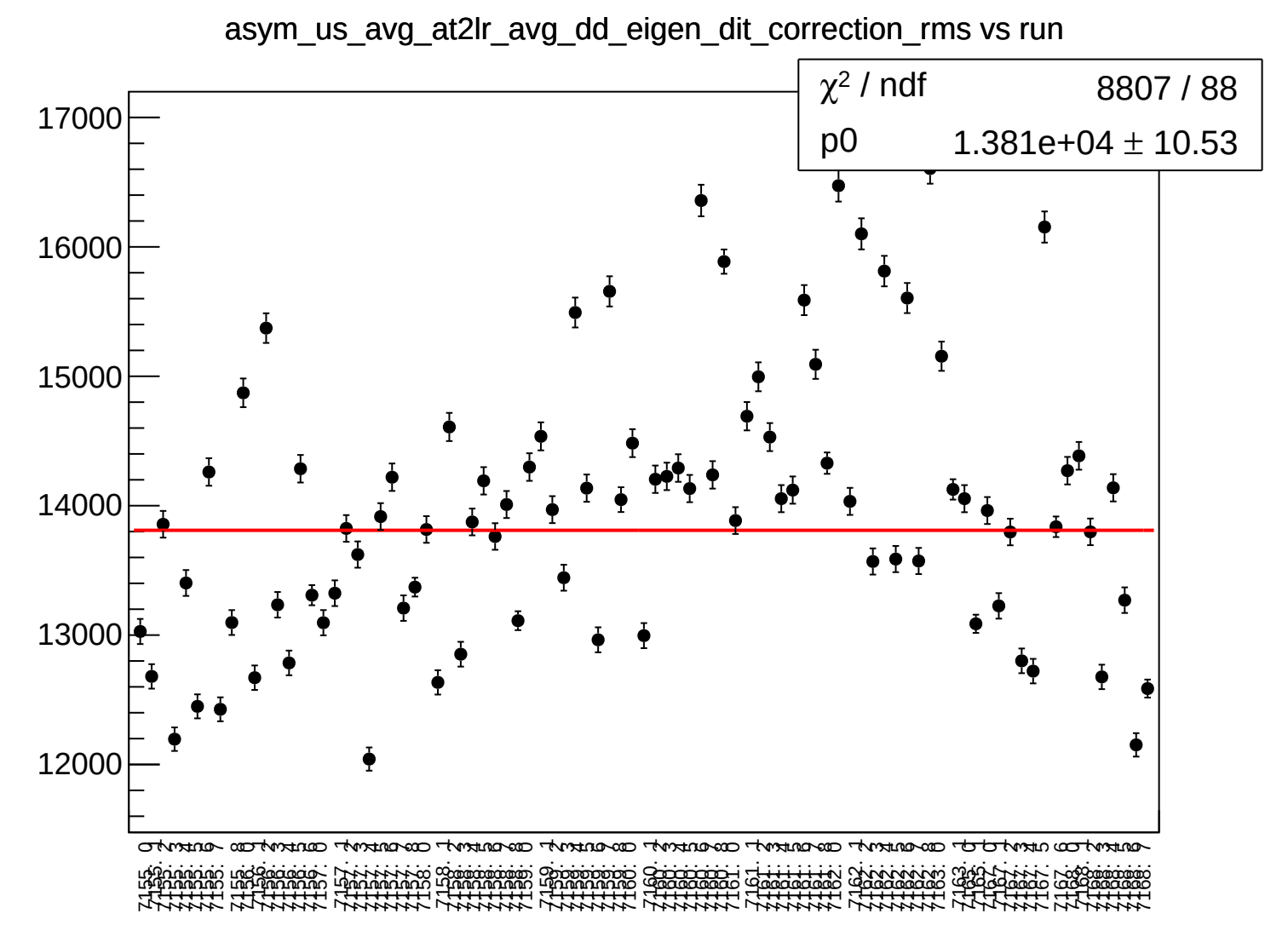

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 113.3 / 88
p0 6.01 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 412.3
Std Dev 0
2
1
0
−1
−2

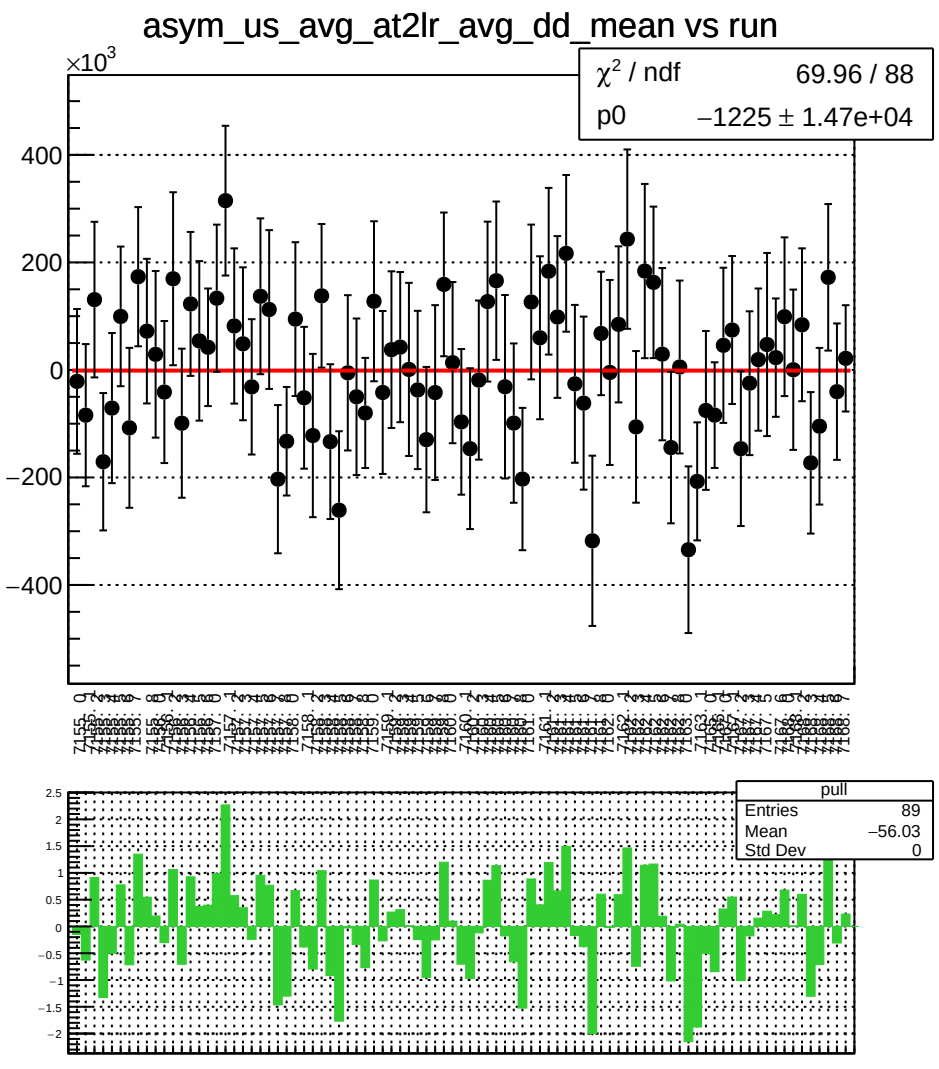

pull1D
Entries 89
Mean −0.01405
Std Dev 1.128
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

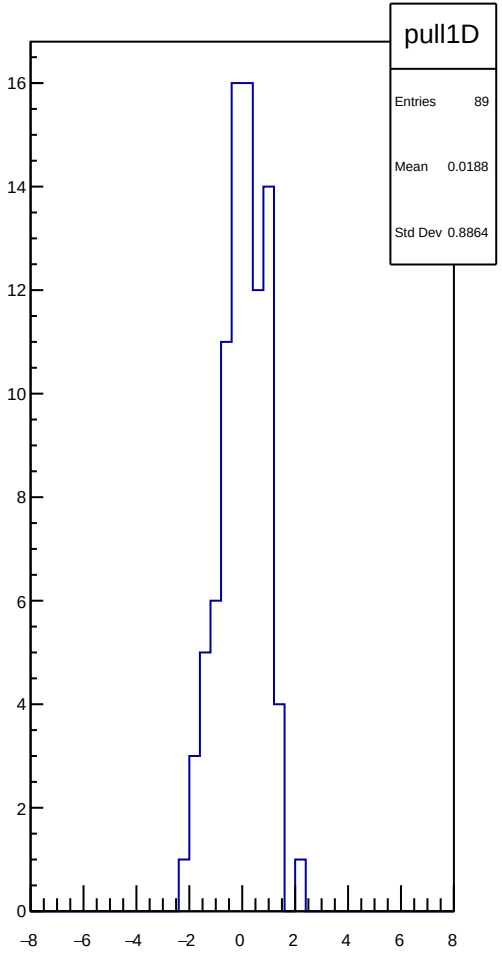

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 818.2 / 88
p0 1680 ± 1.277
1850
1800
1750
1700
1650
1600

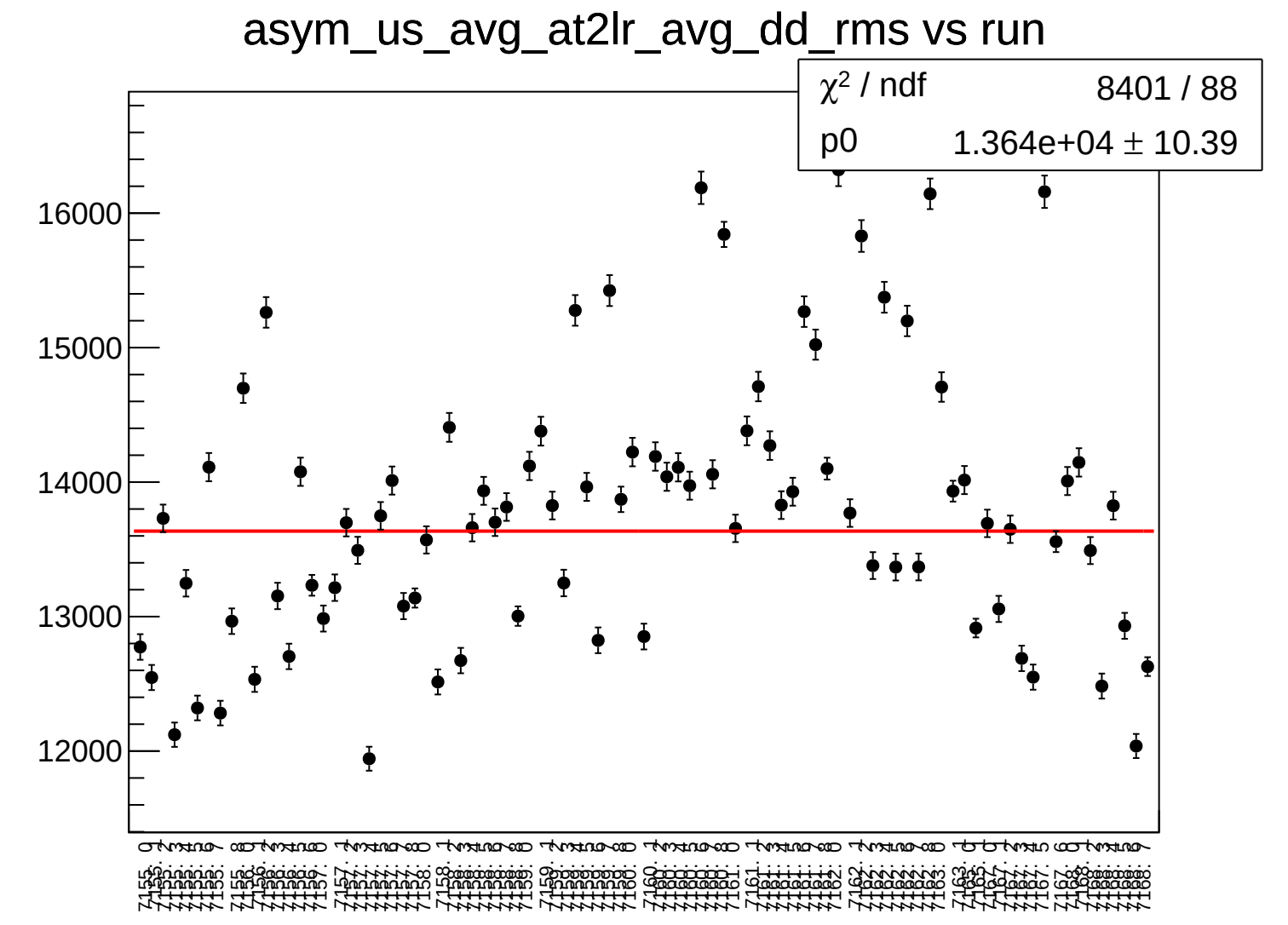

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 68.63 / 88
p0 2081± 1.489e+04
pull
Entries 89
Mean −9.17
Std Dev 0
2
1
0
−1
−2

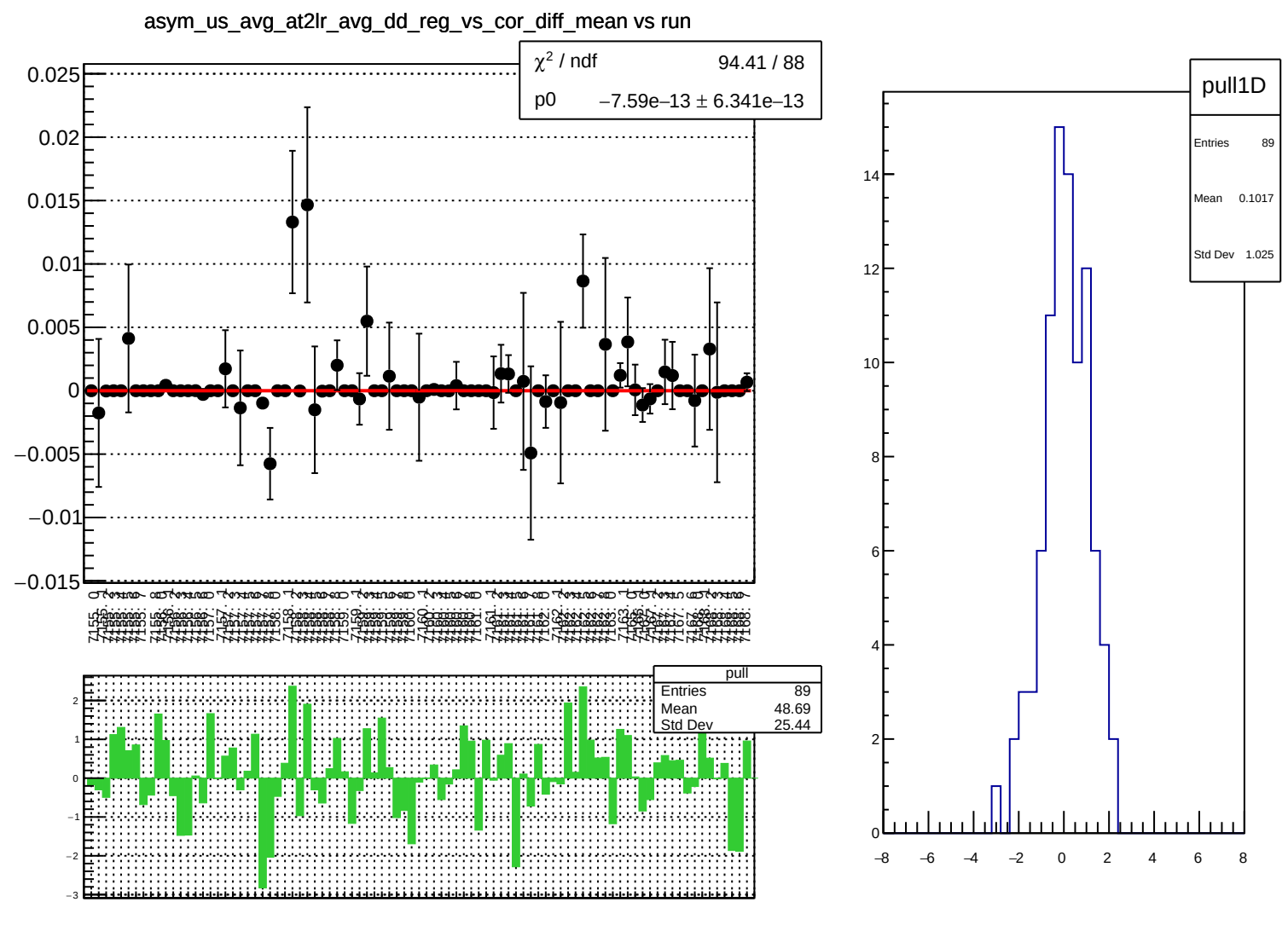

pull1D
Entries 89
Mean −0.02332
Std Dev 0.8778
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

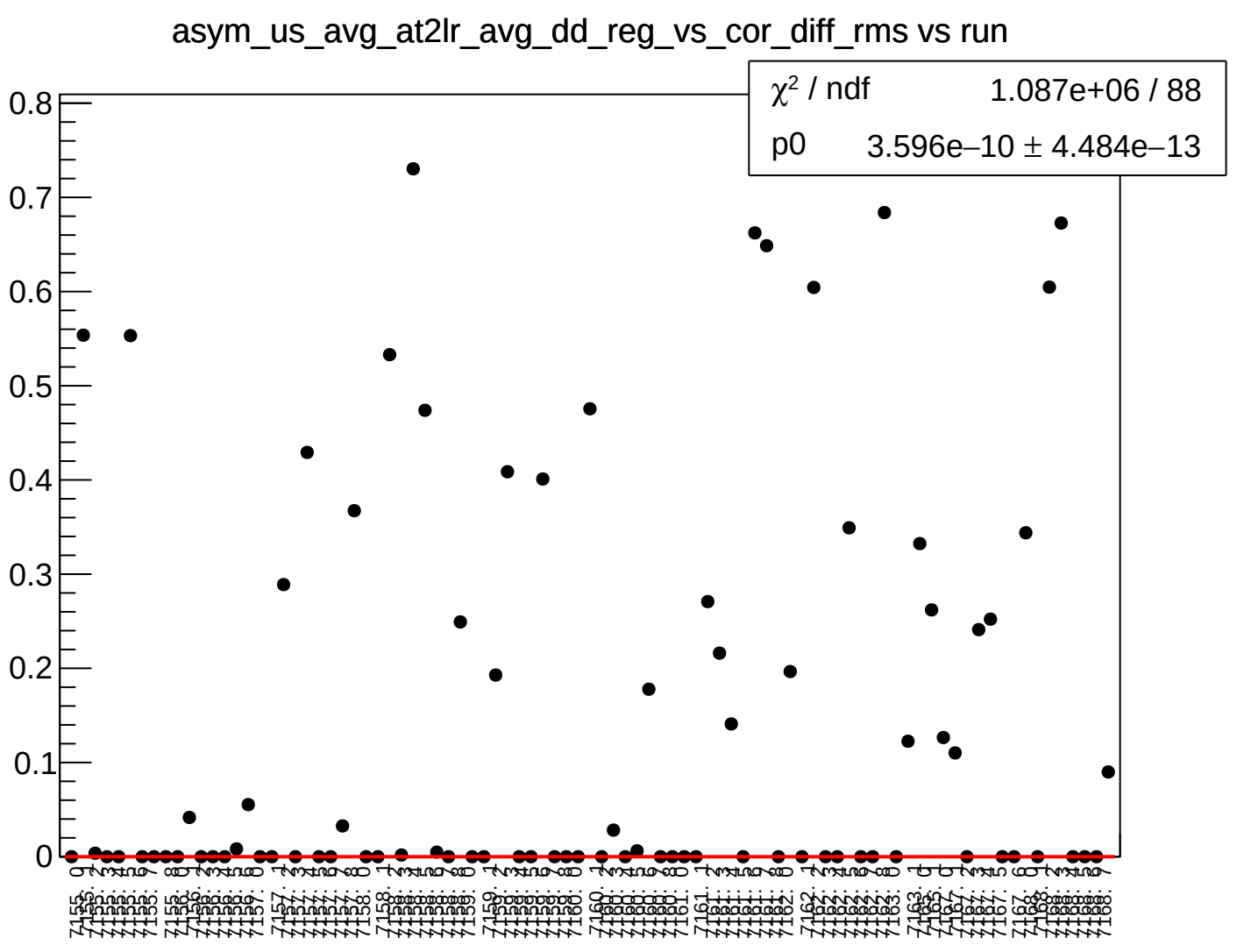

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8807 / 88
p0 1.381e+04 ± 10.53
17000
16000
15000
14000
13000
12000

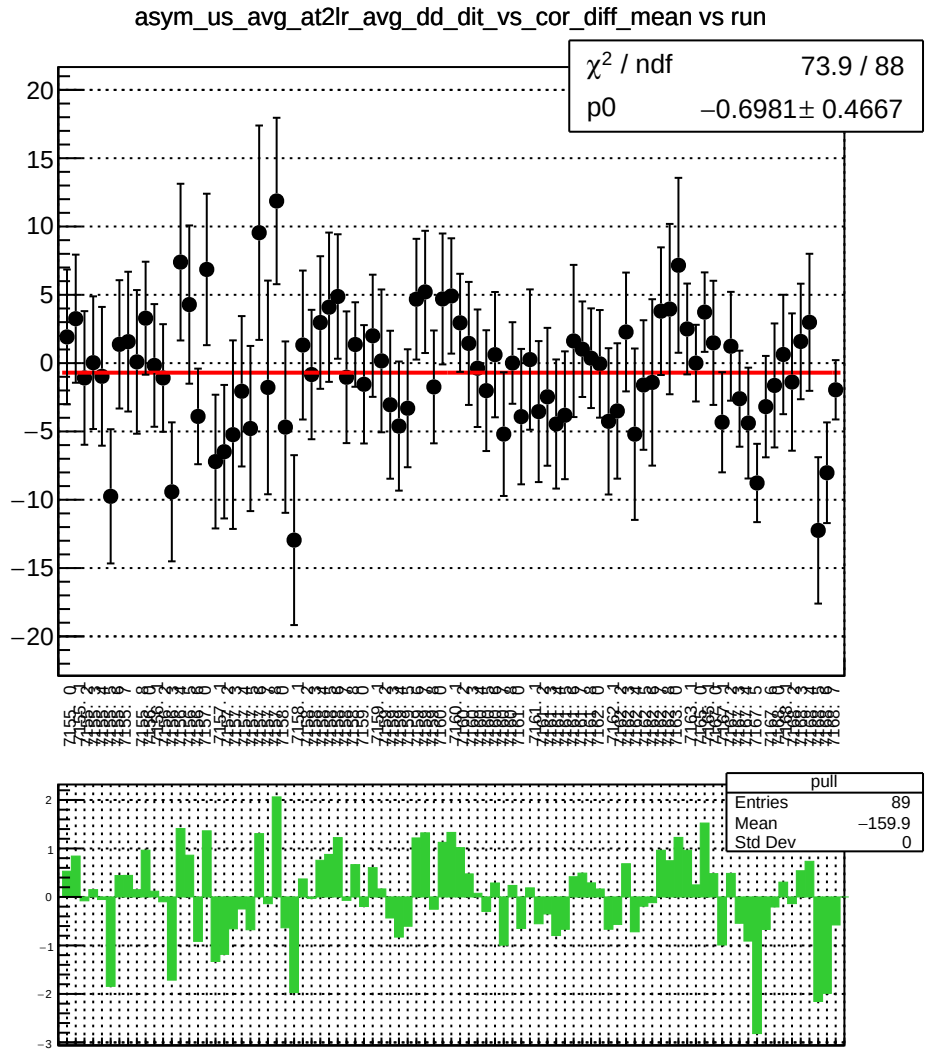

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 69.96 / 88
p0 −1225 ± 1.47e+04
400
200
0
−200
−400
pull
Entries 89
Mean −56.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

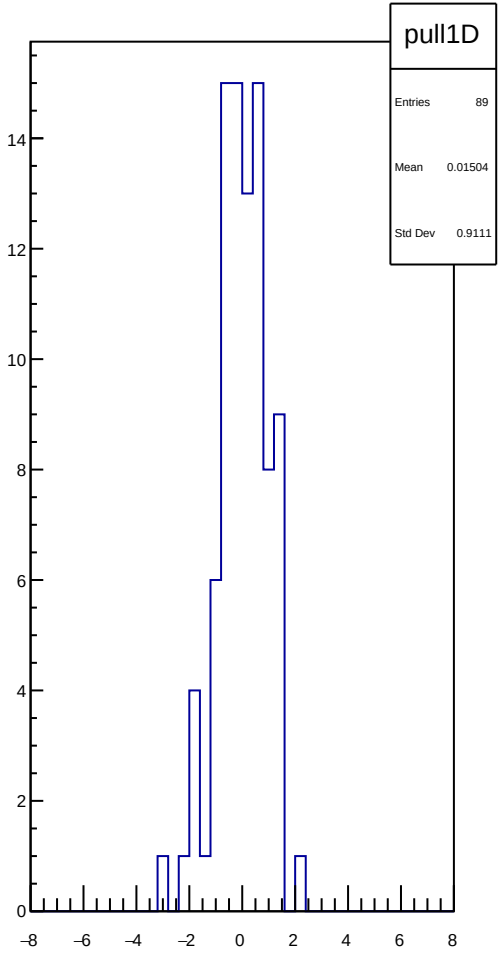

pull1D
Entries 89
Mean 0.0188
Std Dev 0.8864
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

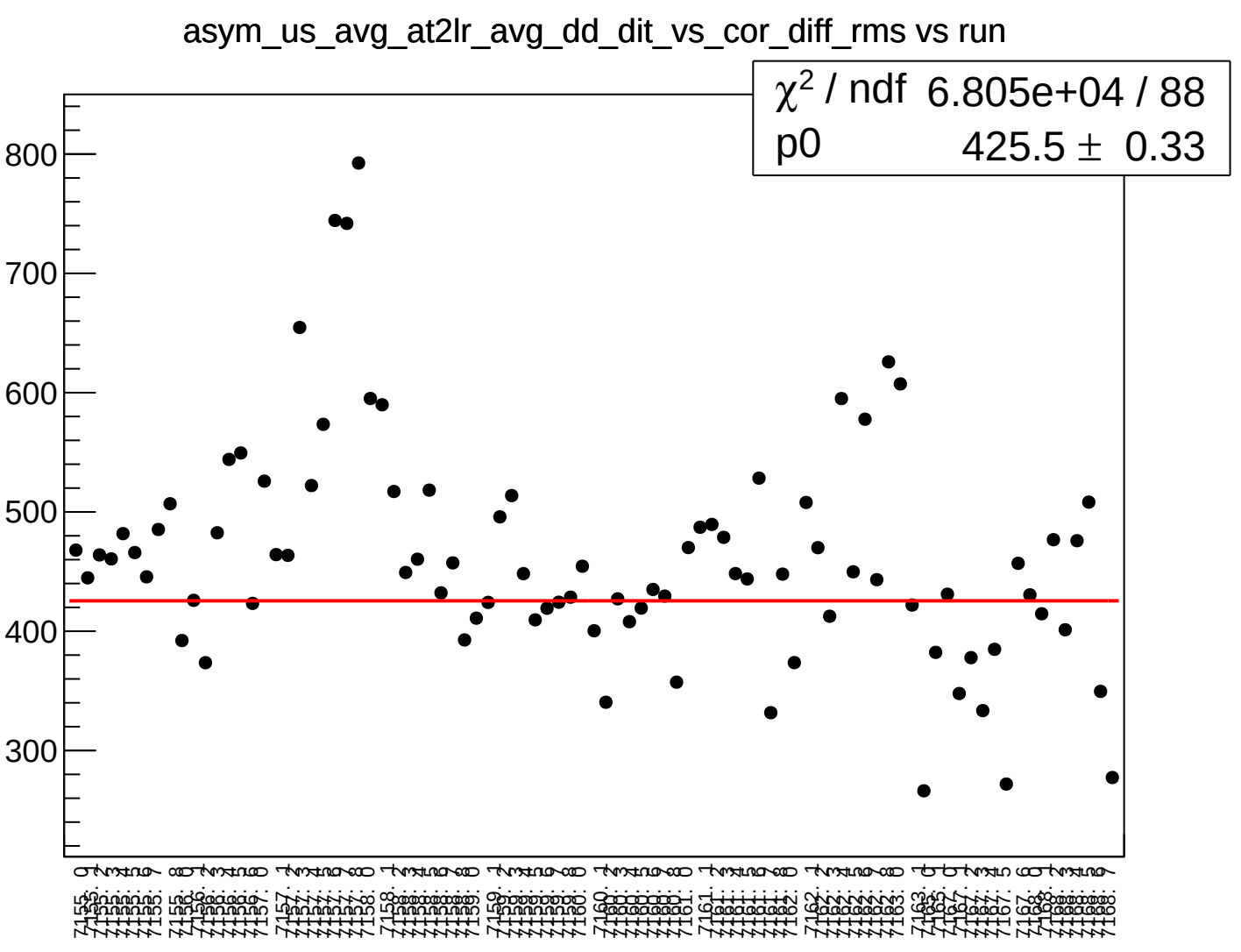

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 8401 / 88
p0 1.364e+04 ± 10.39
16000
15000
14000
13000
12000

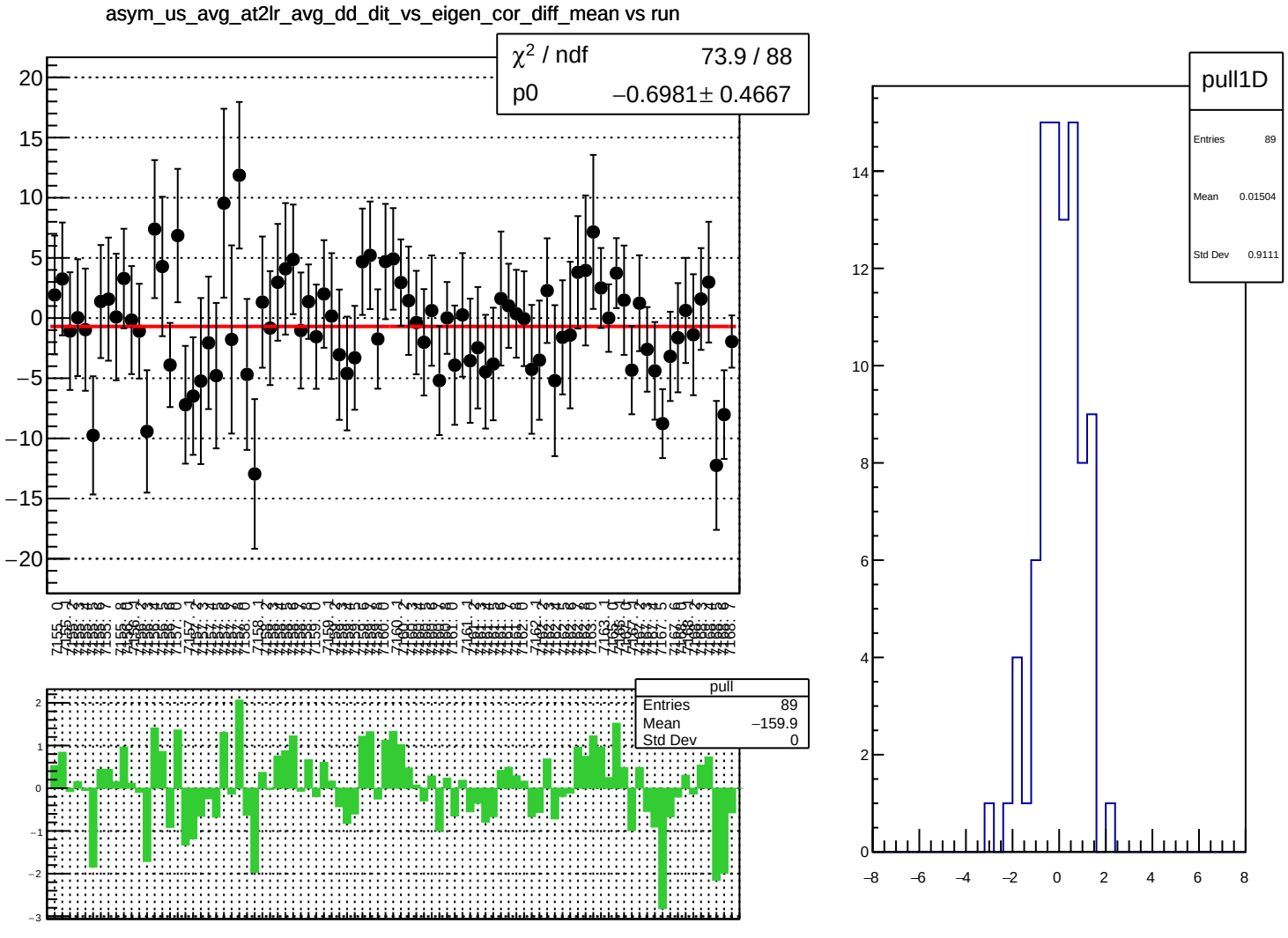

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 94.41 / 88
p0 −7.59e−13 ± 6.341e−13
pull
Entries 89
Mean 48.69
Std Dev 25.44
pull1D
Entries 89
Mean 0.1017
Std Dev 1.025

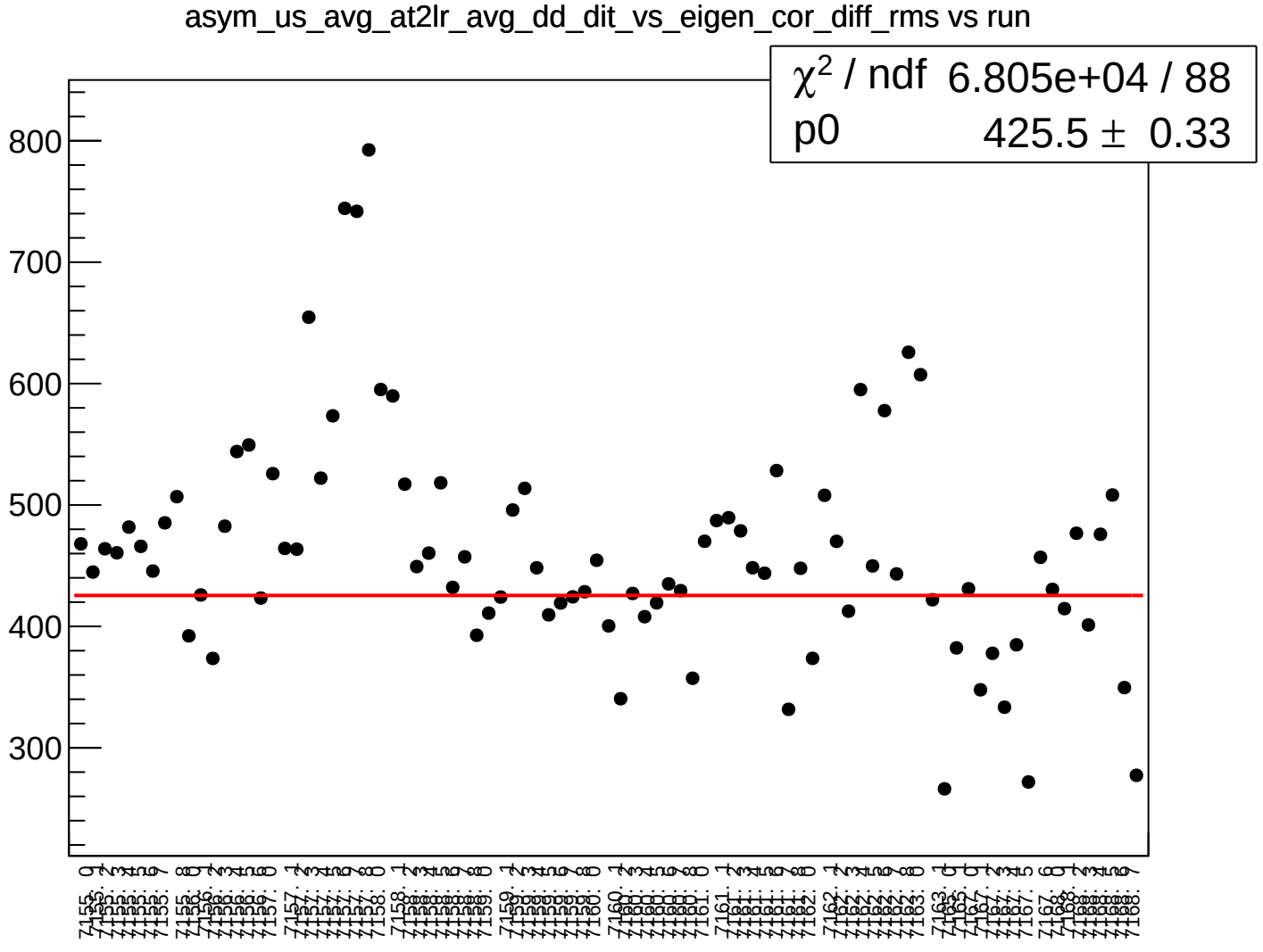

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.087e+06 / 88
p0 3.596e−10 ± 4.484e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

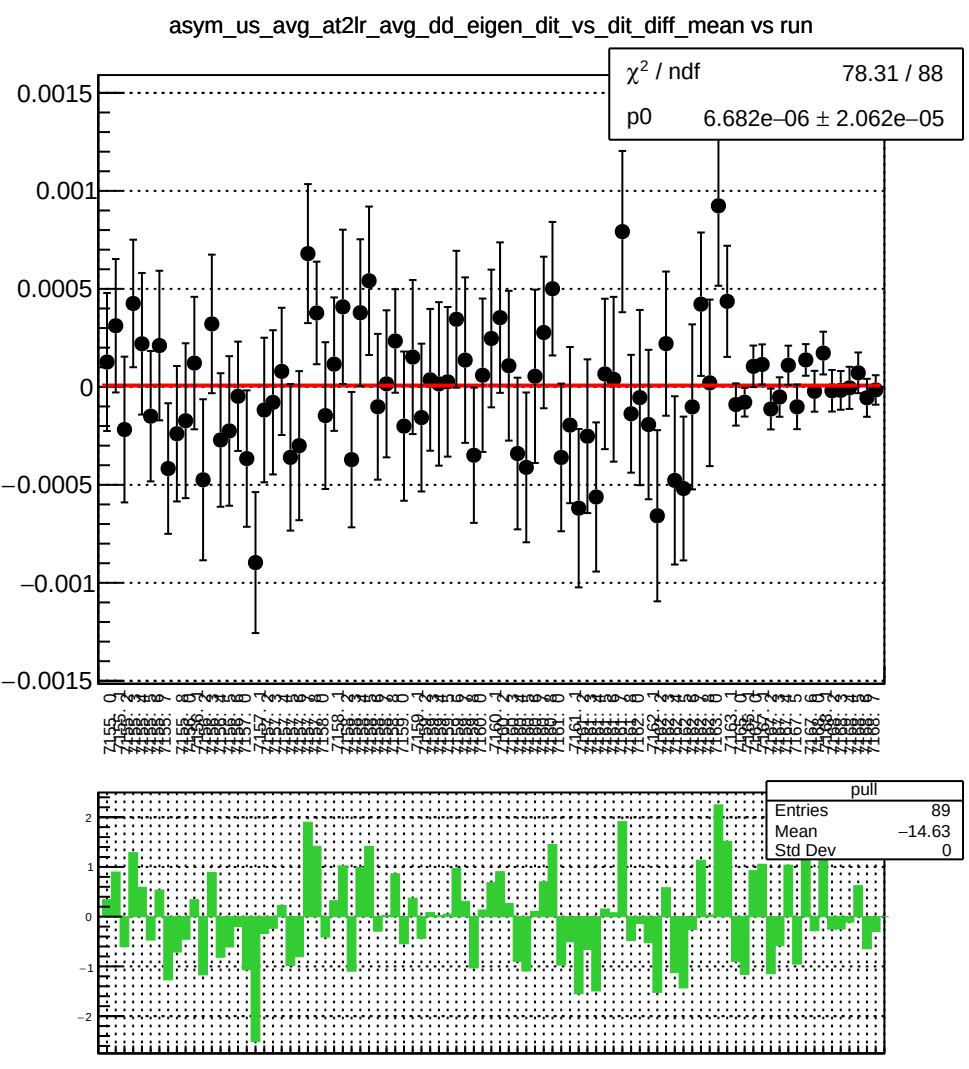

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.9 / 88
p0 −0.6981± 0.4667
pull
Entries 89
Mean −159.9
Std Dev 0

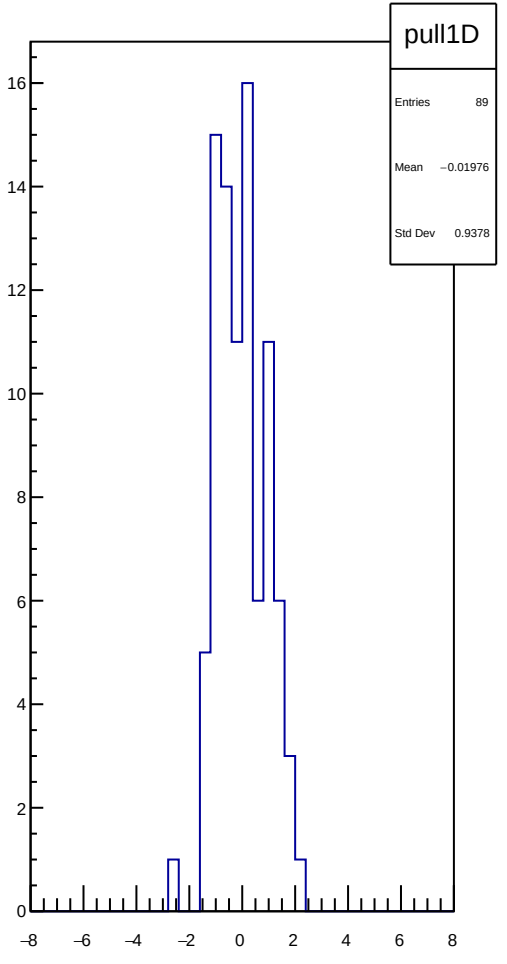

pull1D
Entries 89
Mean 0.01504
Std Dev 0.9111

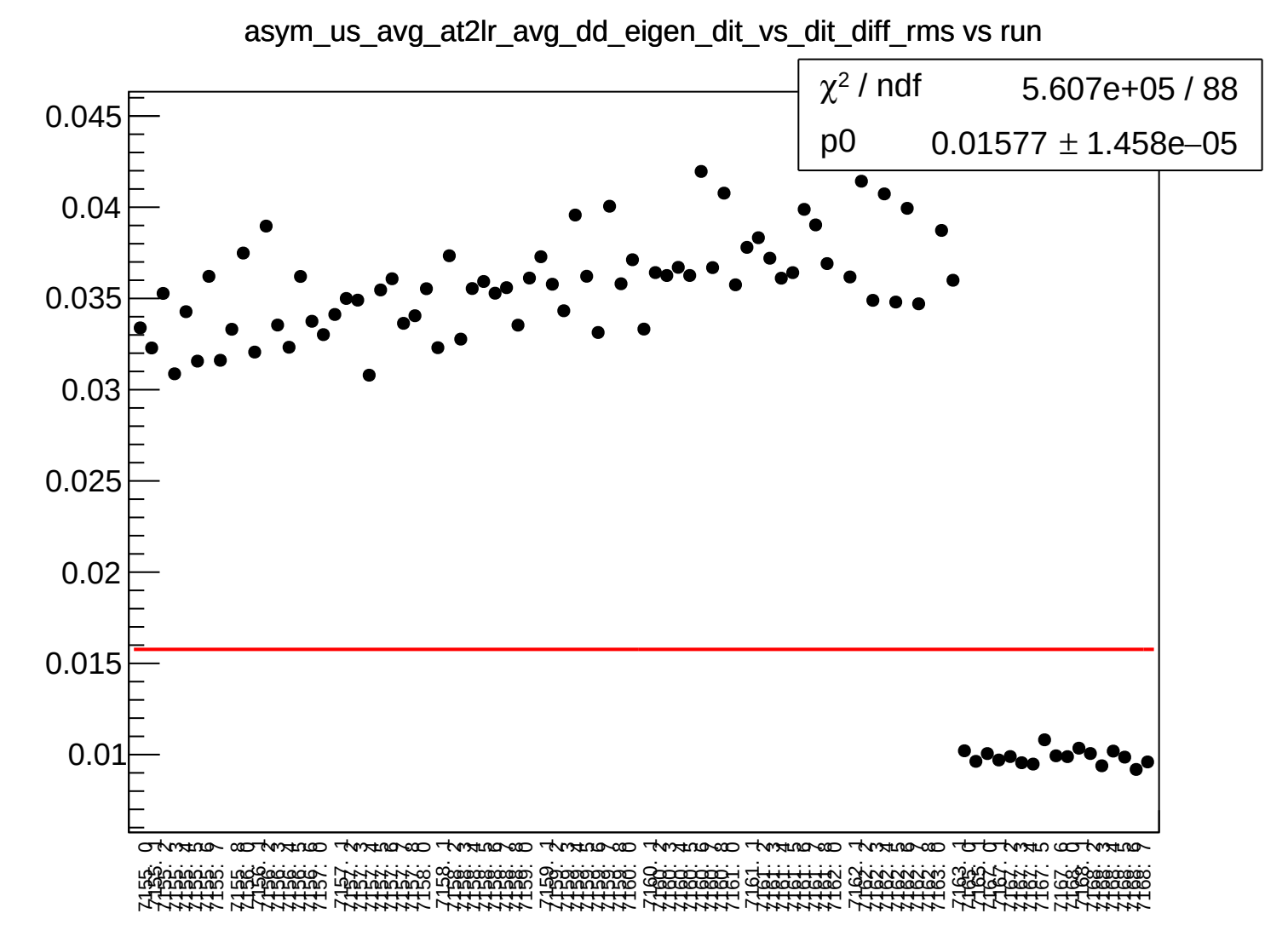

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 88
p0 425.5 ± 0.33
800
700
600
500
400
300

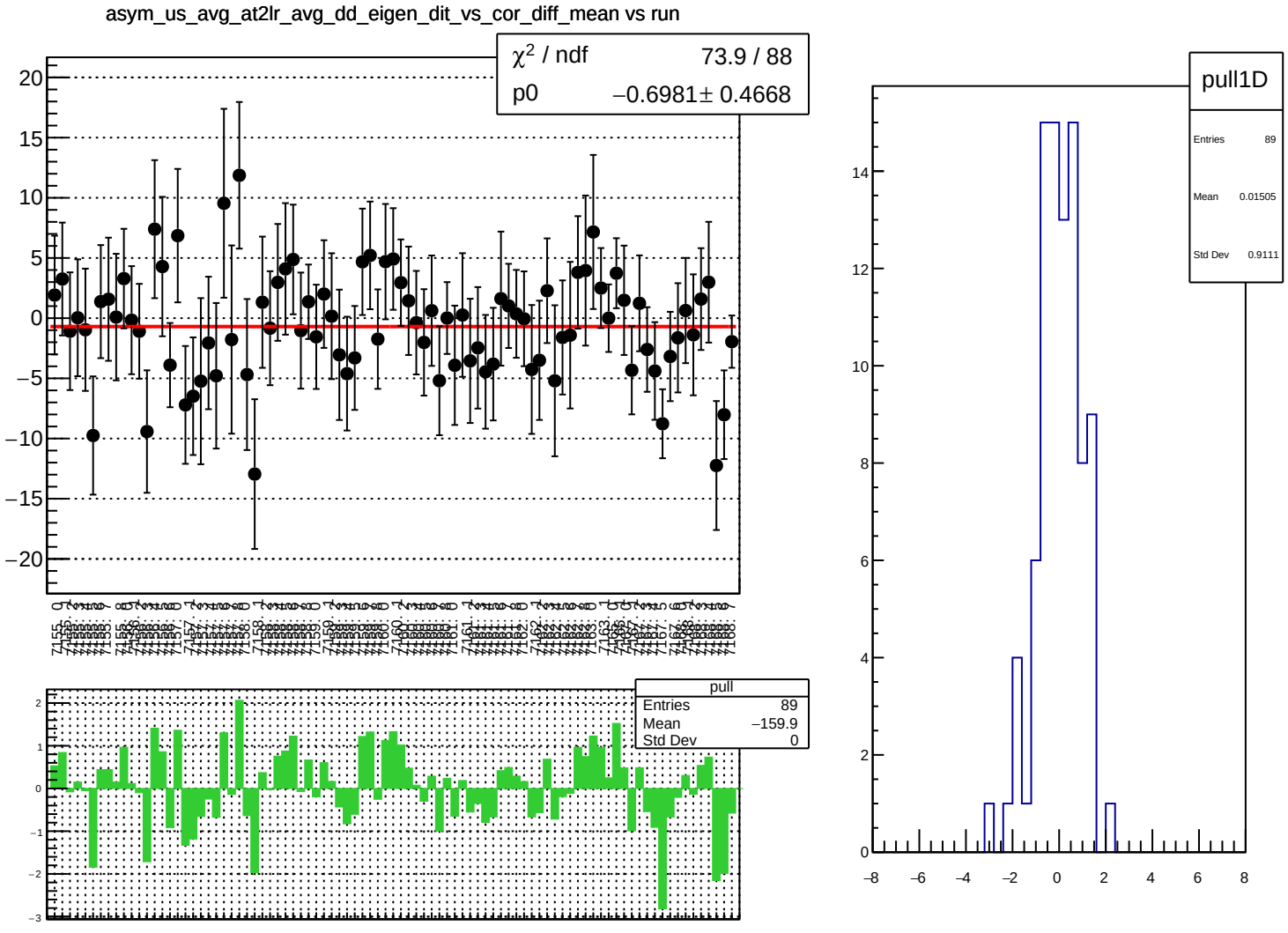

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.9 / 88
p0 −0.6981± 0.4667
pull
Entries 89
Mean −159.9
Std Dev 0
pull1D
Entries 89
Mean 0.01504
Std Dev 0.9111

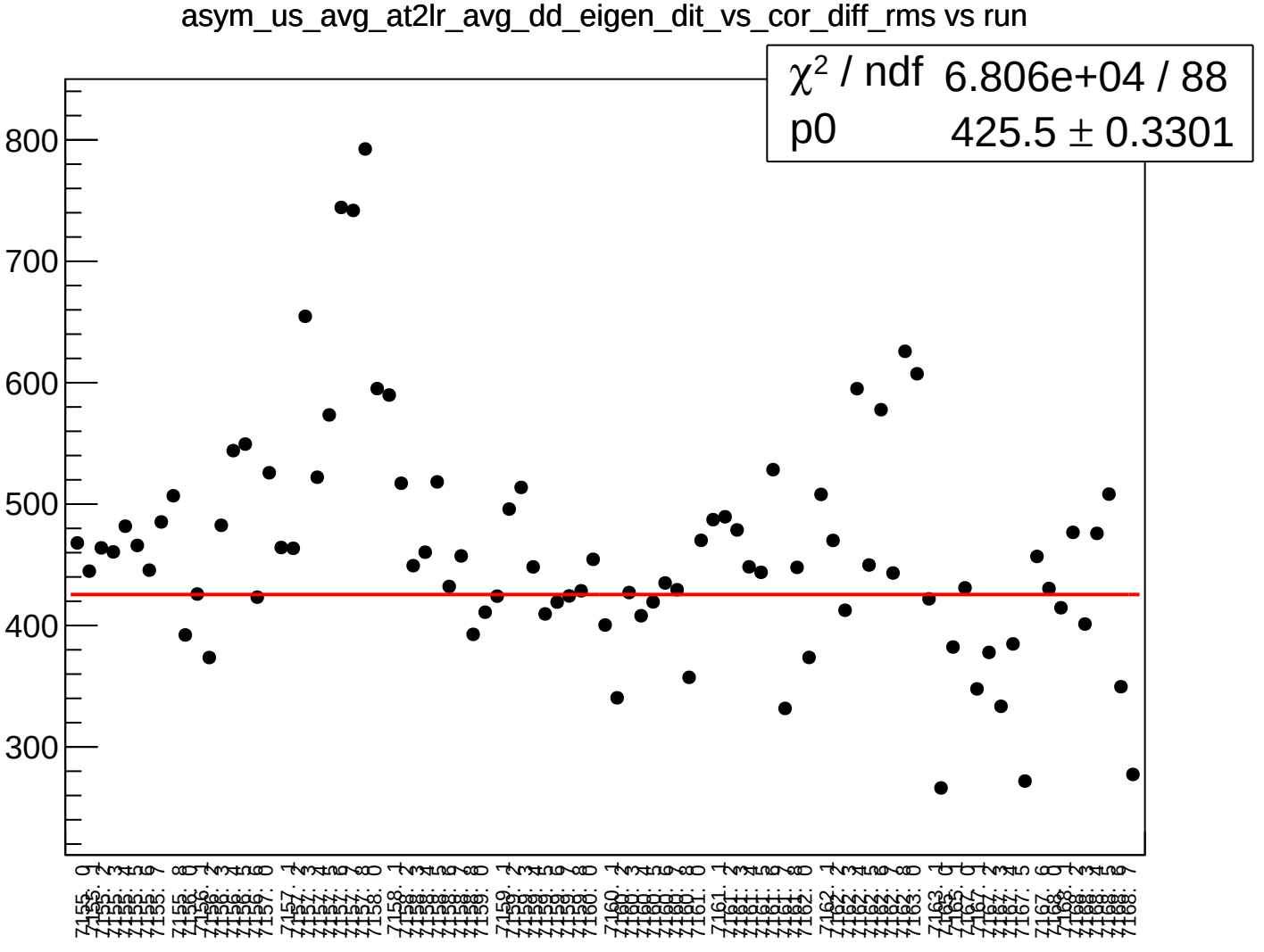

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.805e+04 / 88
p0 425.5 ± 0.33
800
700
600
500
400
300

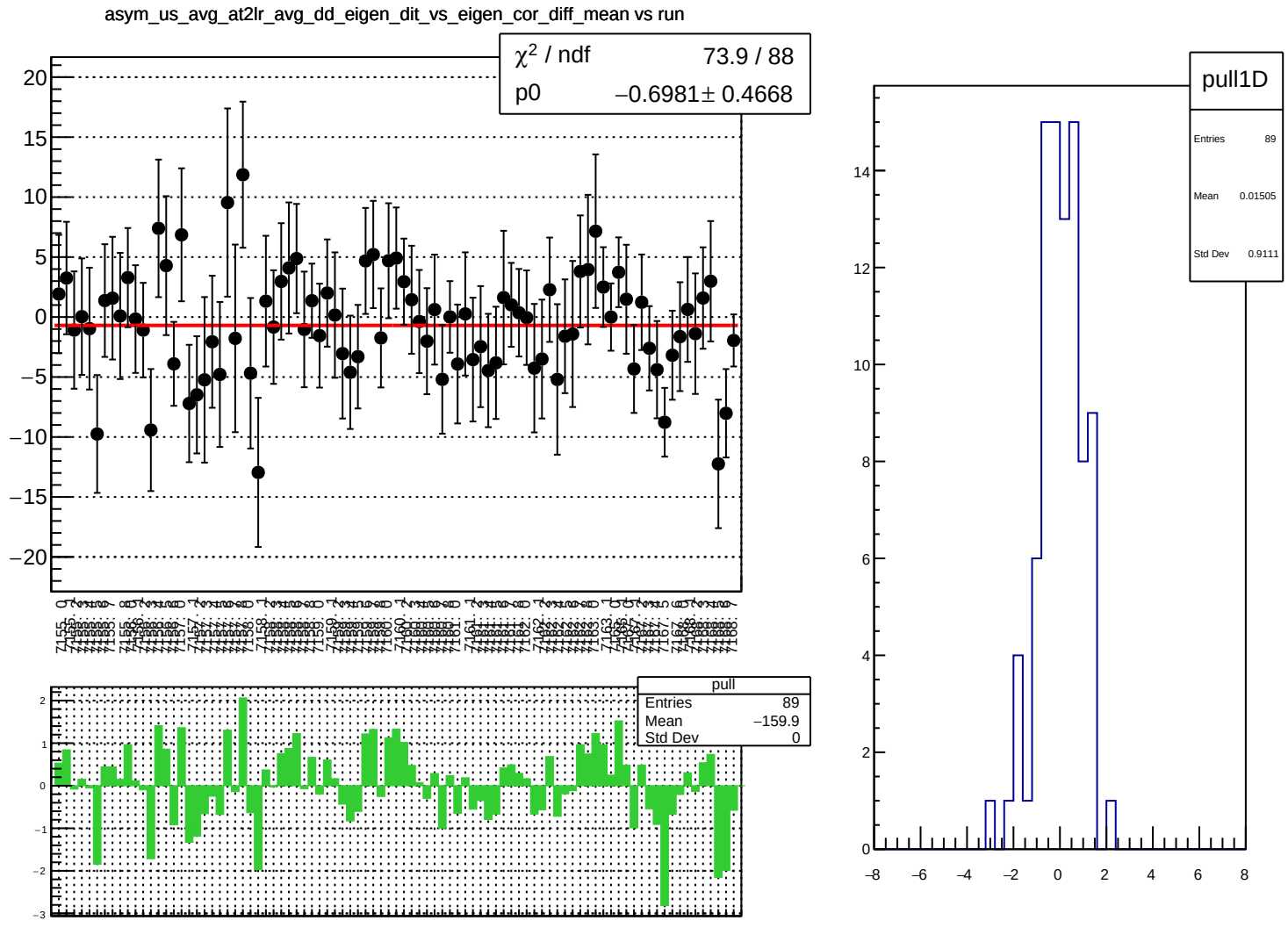

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 78.31 / 88
p0 6.682e−06 ± 2.062e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −14.63
Std Dev 0
2
1
0
−1
−2

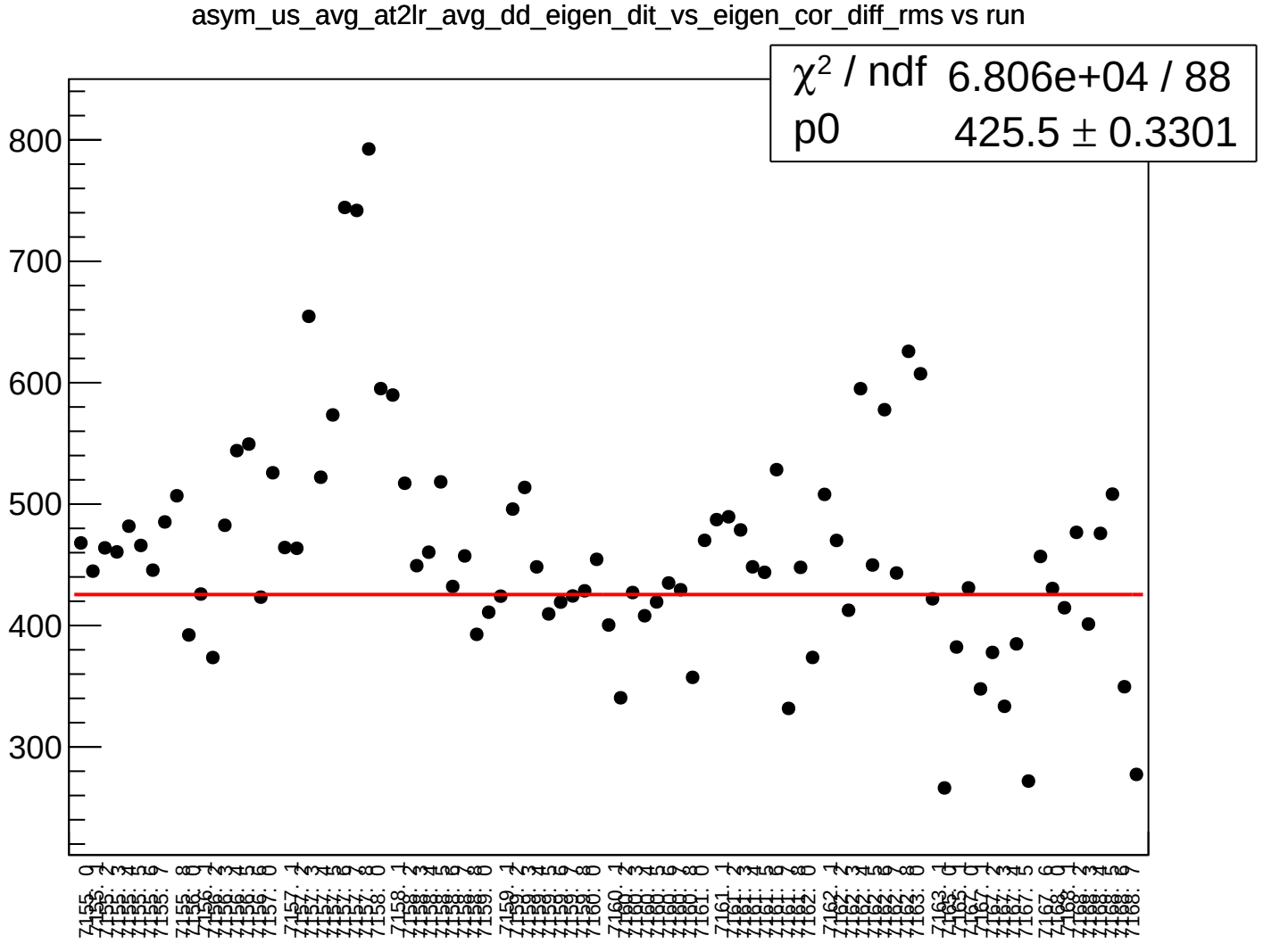

pull1D
Entries 89
Mean −0.01976
Std Dev 0.9378
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

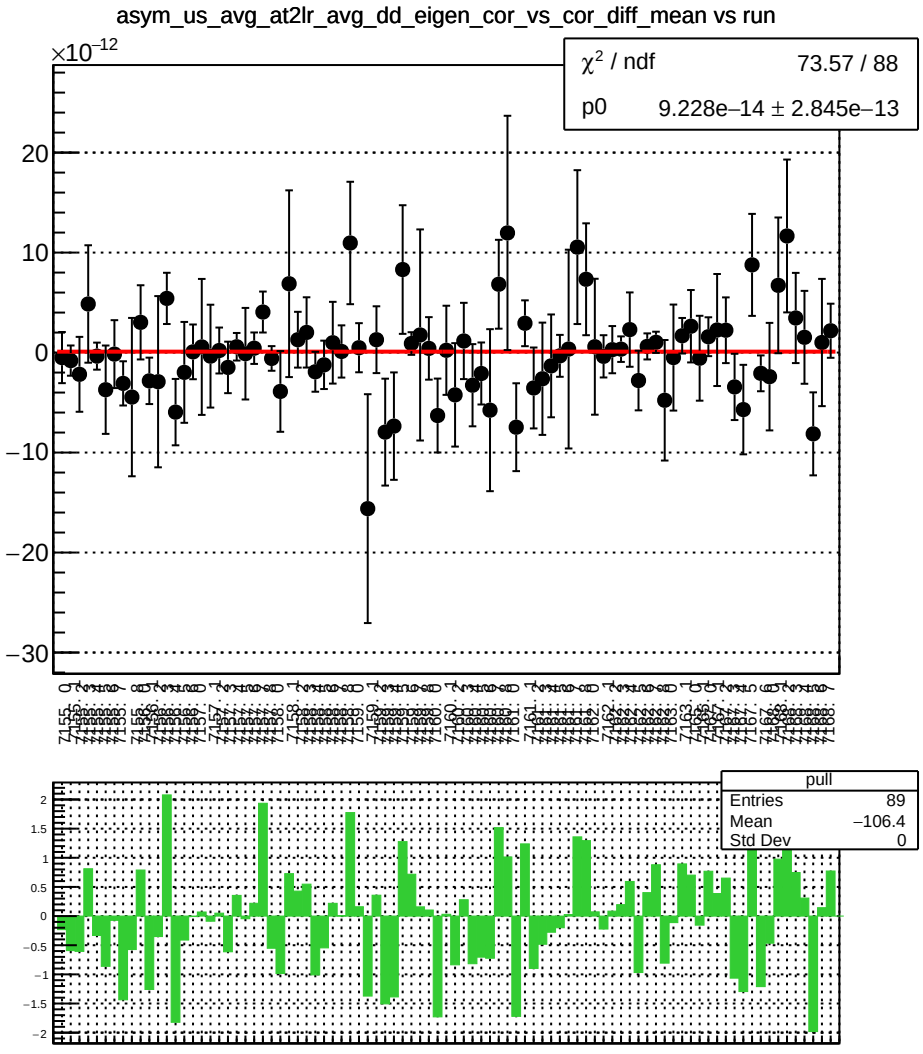

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.607e+05 / 88
p0 0.01577 ± 1.458e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

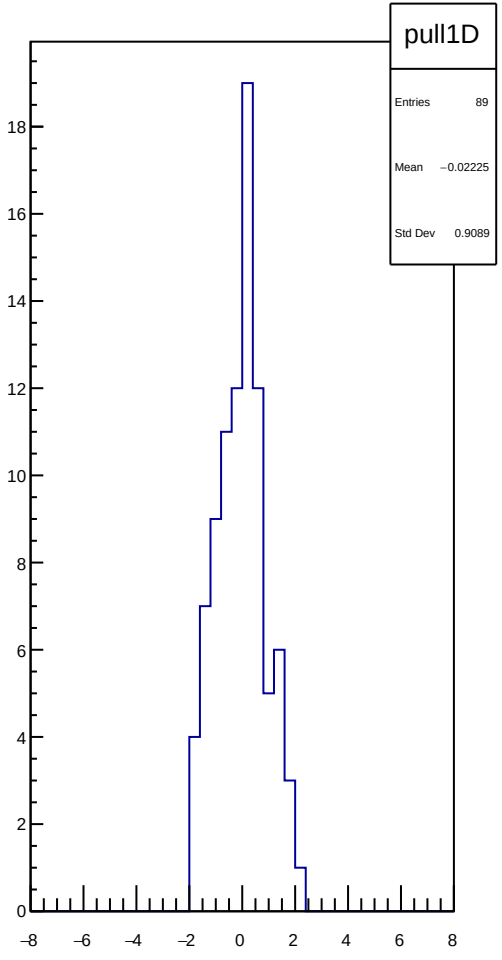

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.9 / 88
p0 −0.6981± 0.4668
pull
Entries 89
Mean −159.9
Std Dev 0
pull1D
Entries 89
Mean 0.01505
Std Dev 0.9111

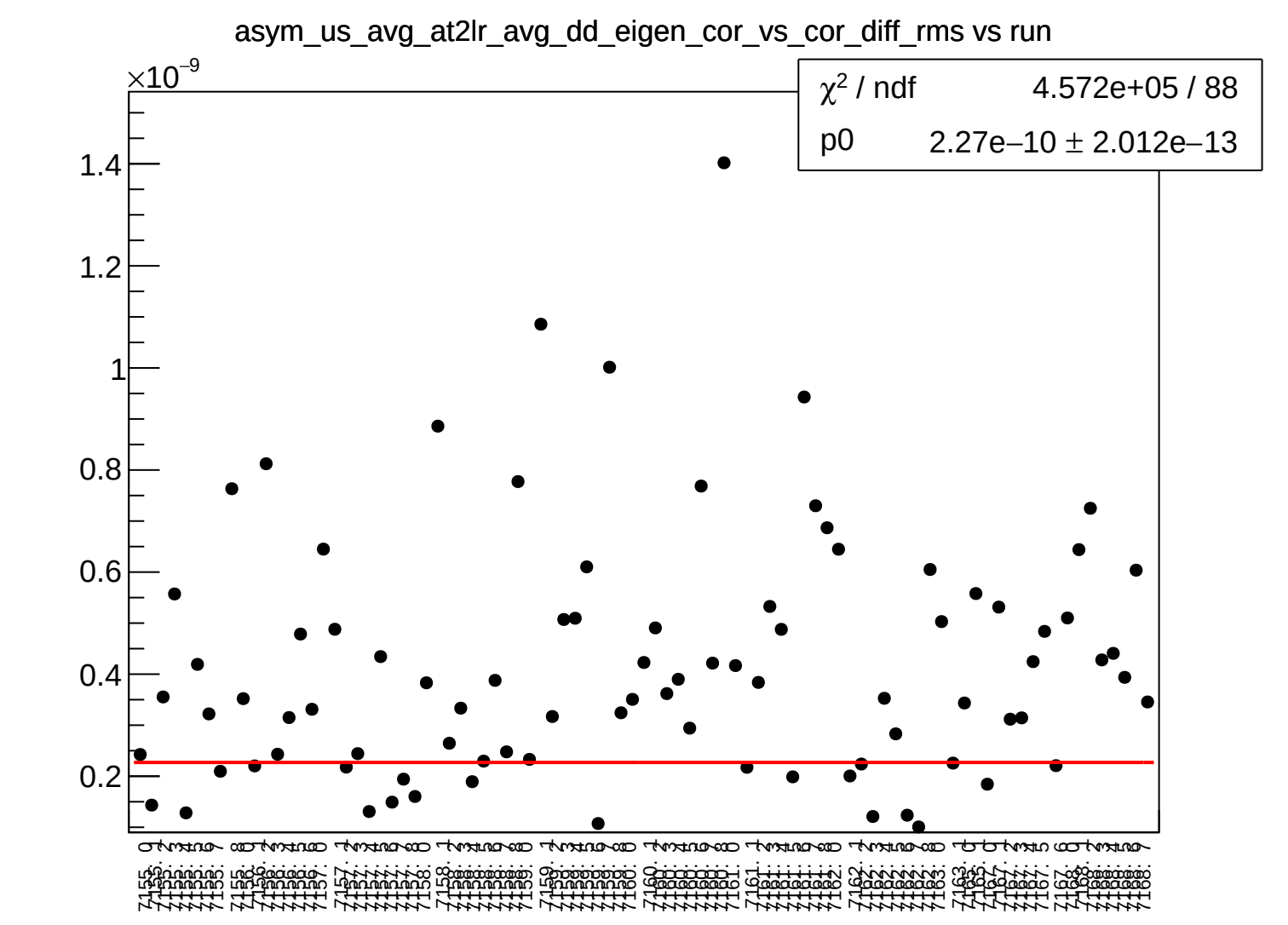

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.806e+04 / 88
p0 425.5 ± 0.3301
800
700
600
500
400
300

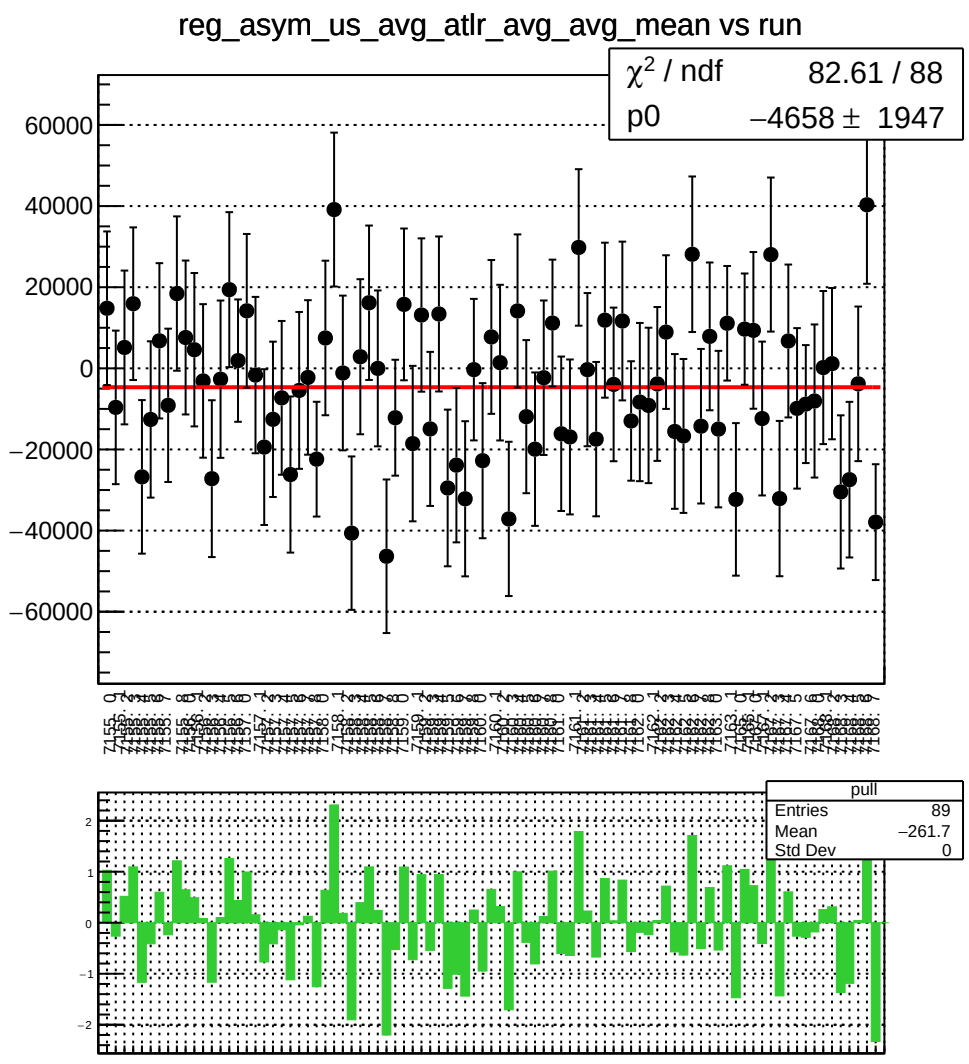

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.9 / 88
p0 −0.6981± 0.4668
pull
Entries 89
Mean −159.9
Std Dev 0
pull1D
Entries 89
Mean 0.01505
Std Dev 0.9111

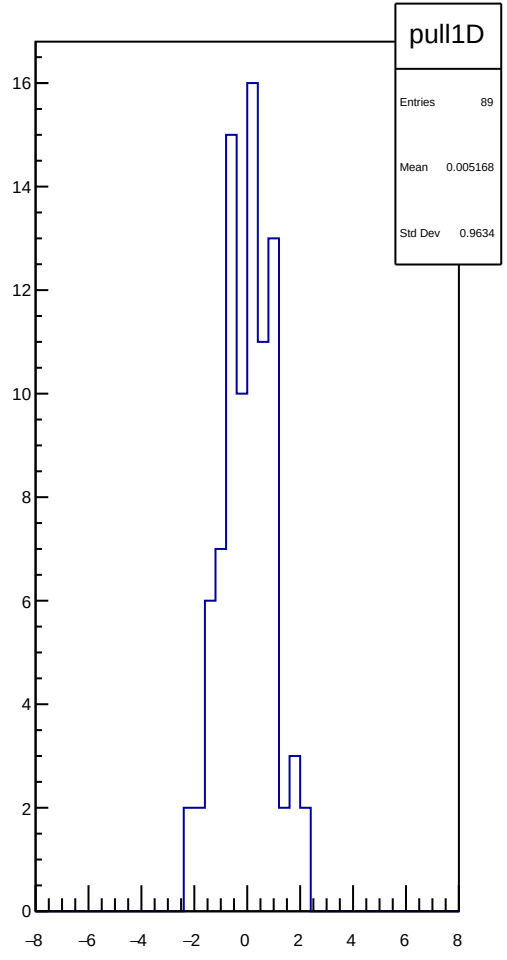

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.806e+04 / 88
p0 425.5 ± 0.3301
800
700
600
500
400
300

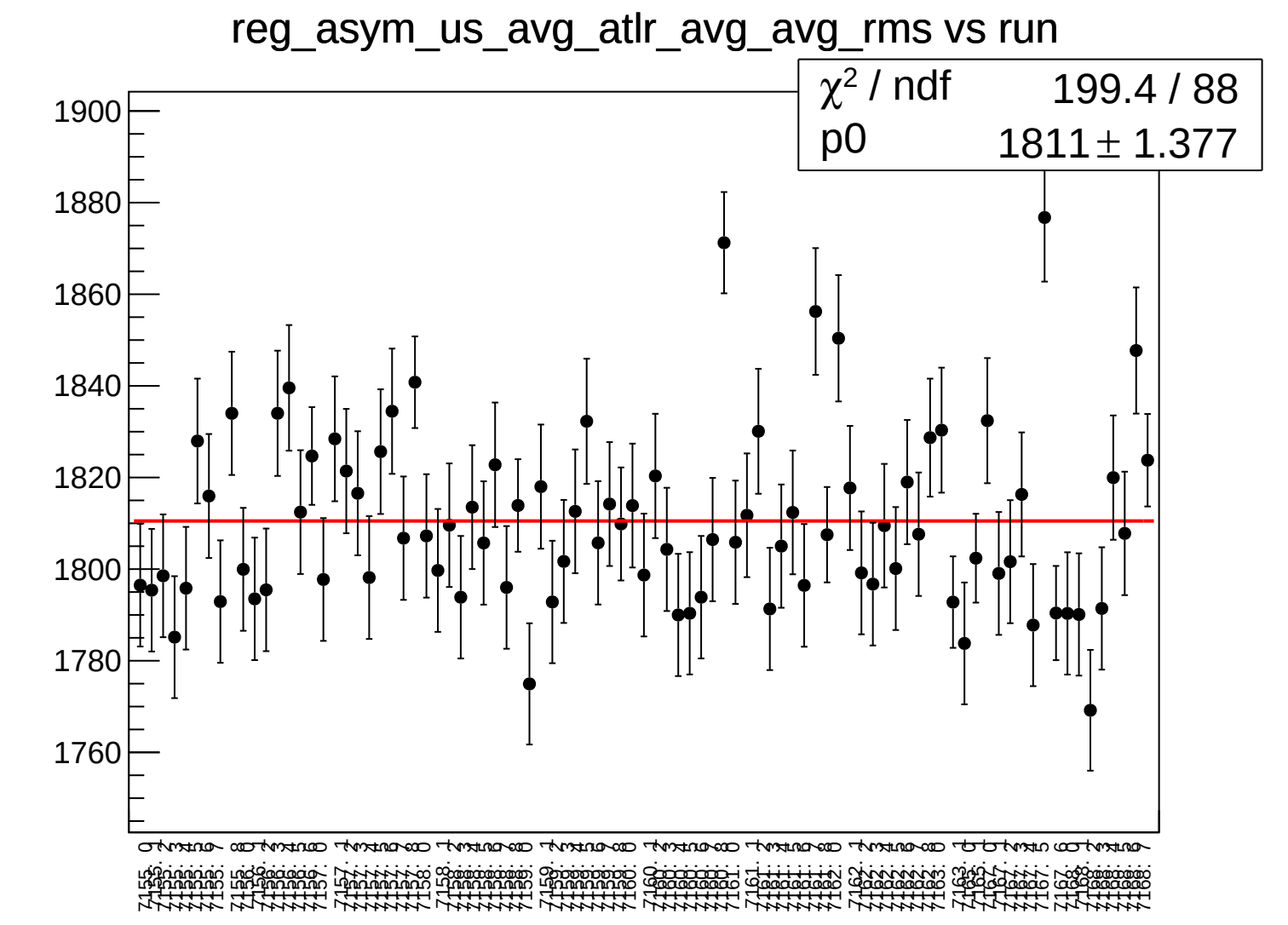

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.57 / 88
p0 9.228e−14 ± 2.845e−13
pull
Entries 89
Mean −106.4
Std Dev 0

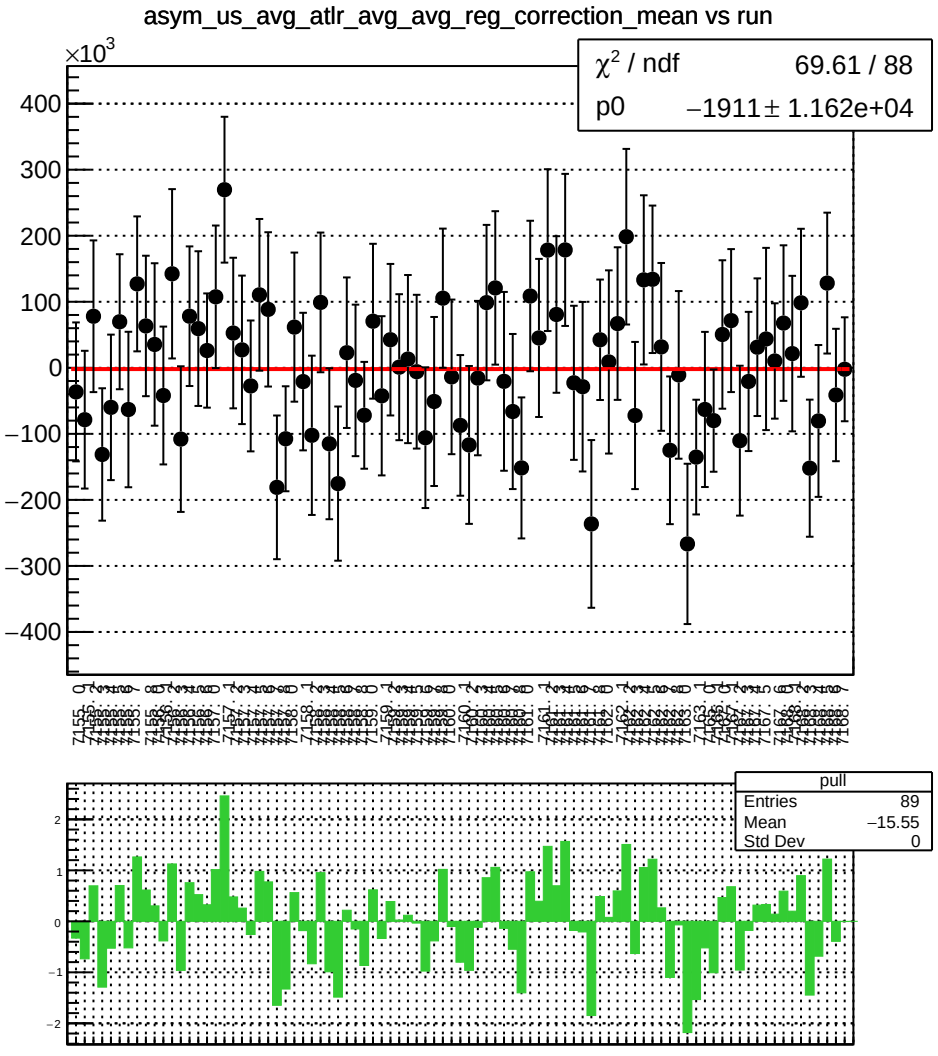

pull1D
Entries 89
Mean −0.02225
Std Dev 0.9089

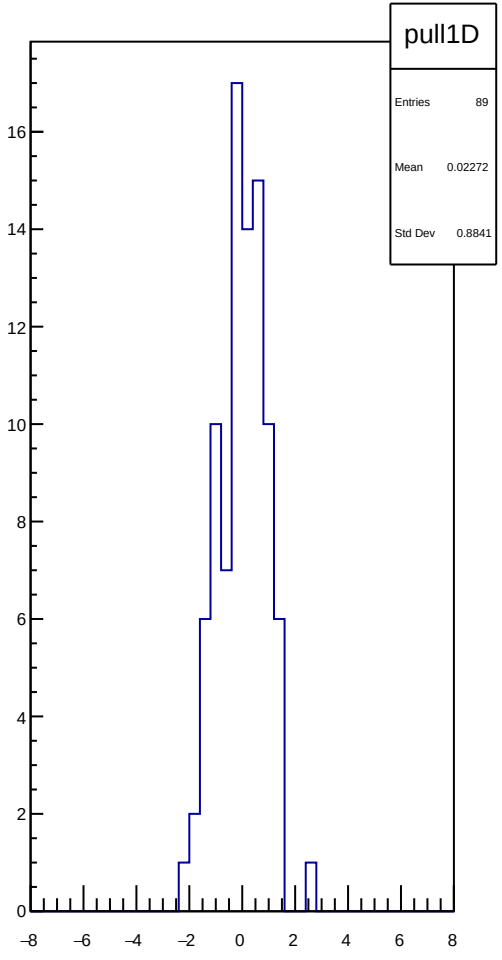

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.572e+05 / 88
p0 2.27e−10 ± 2.012e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

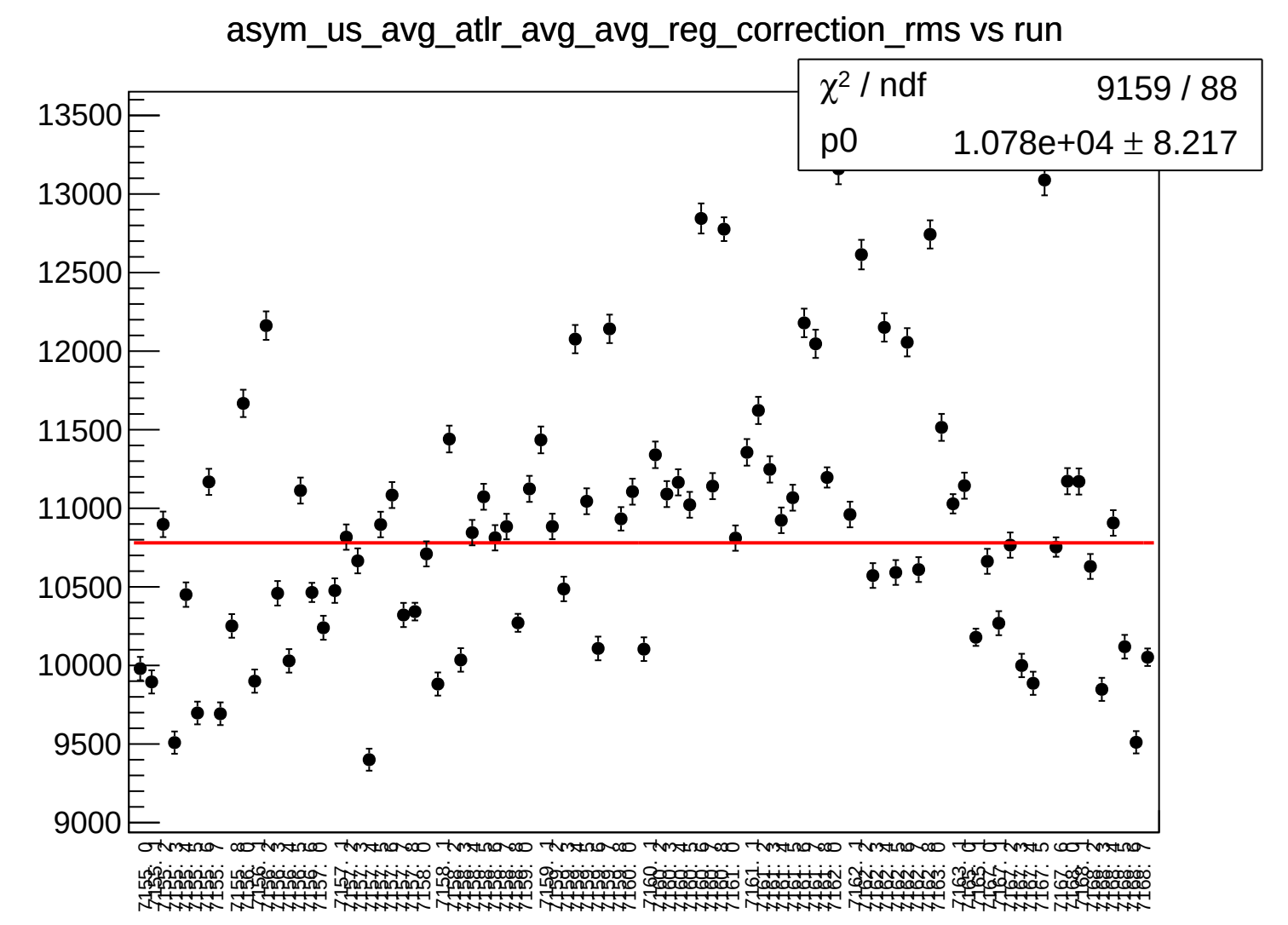

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.61 / 88
p0 −4658 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −261.7
Std Dev 0
2
1
0
−1
−2

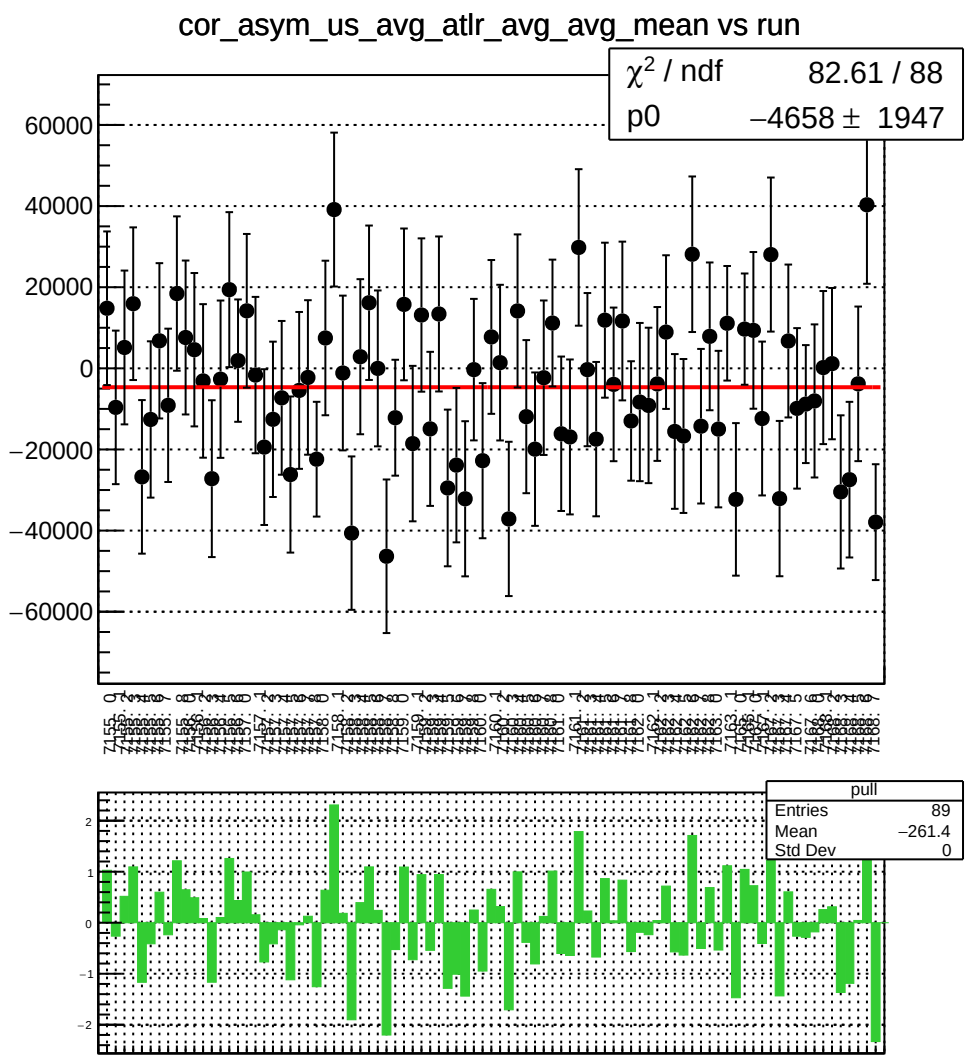

pull1D
Entries 89
Mean 0.005168
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

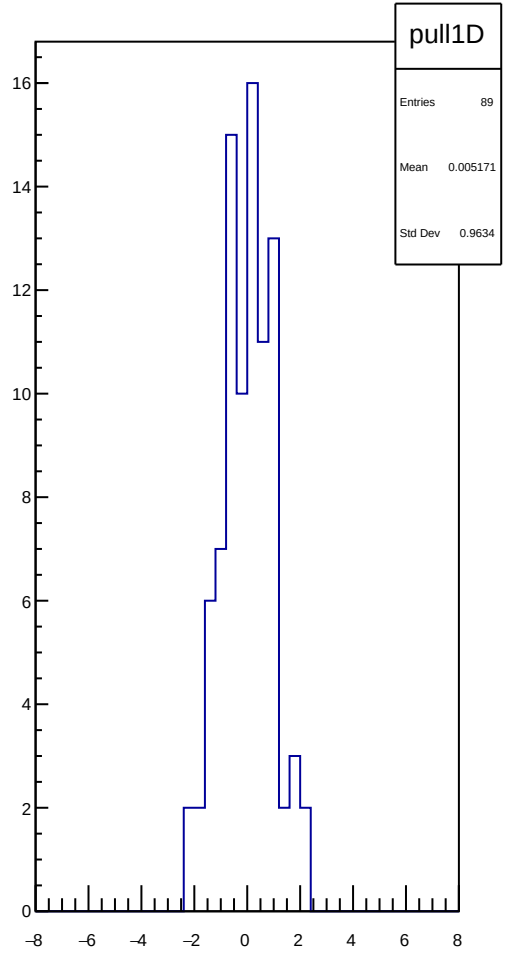

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 199.4 / 88
p0 1811 ± 1.377
1900
1880
1860
1840
1820
1800
1780
1760

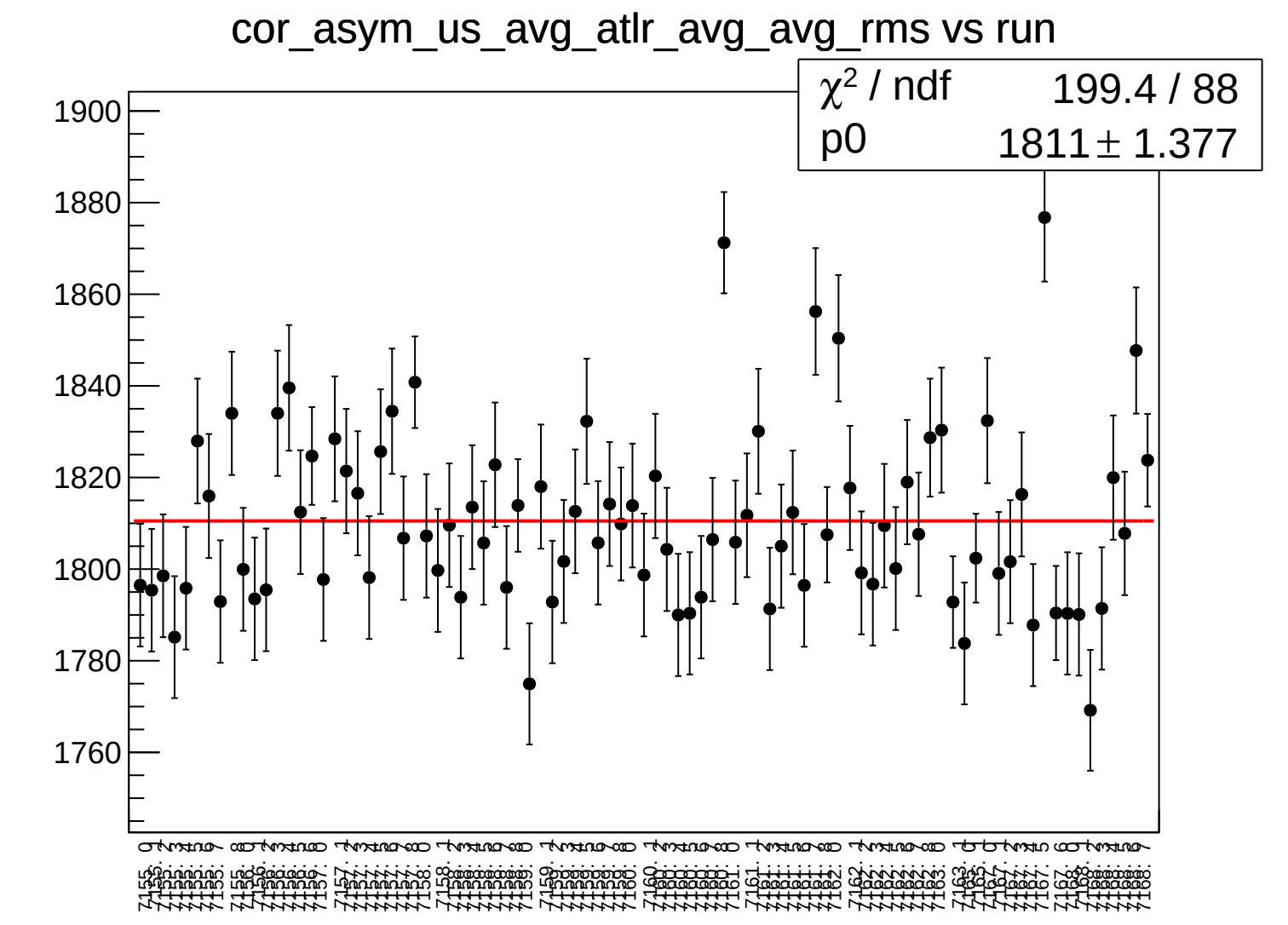

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1911 ± 1.162e+04
pull
Entries 89
Mean −15.55
Std Dev 0

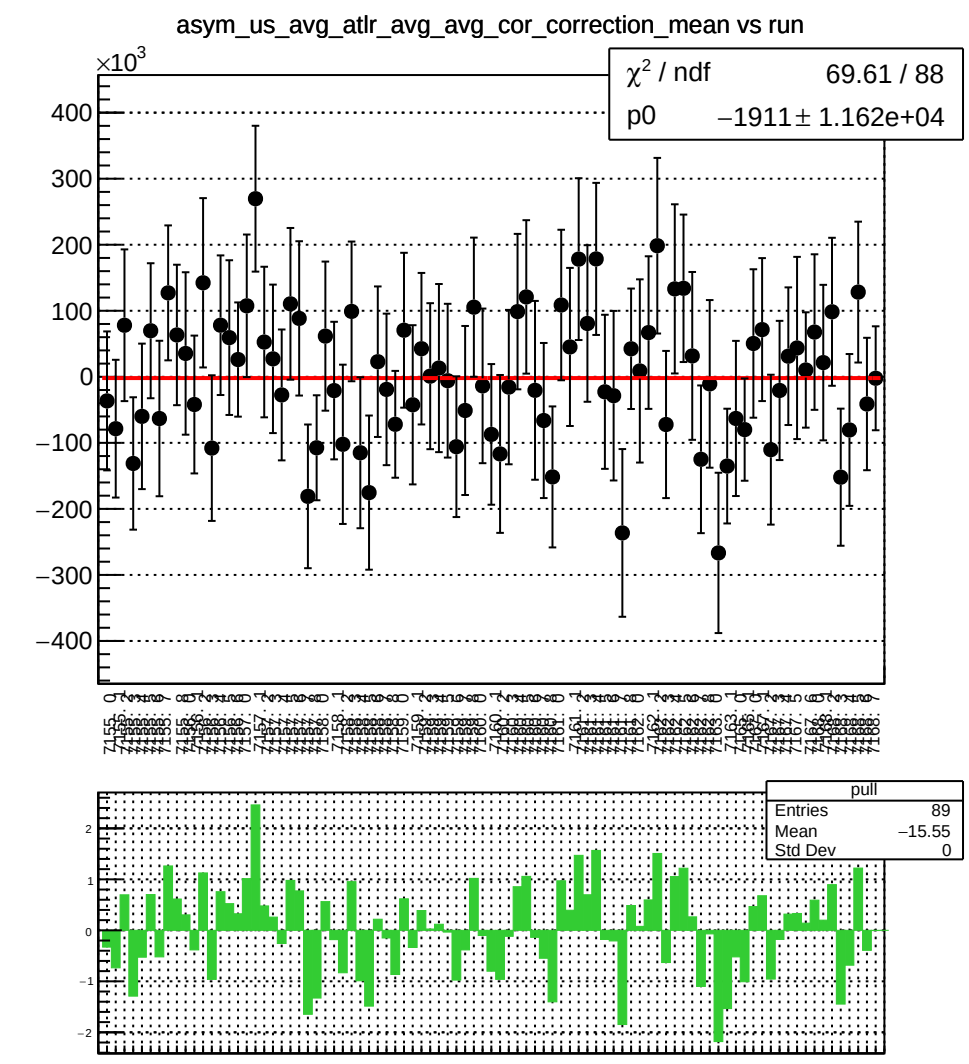

pull1D
Entries 89
Mean 0.02272
Std Dev 0.8841

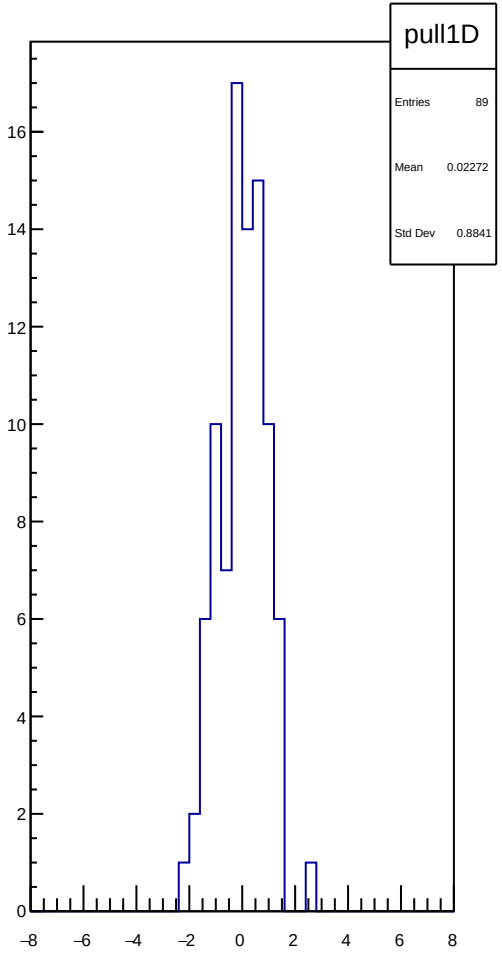

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 9159 / 88
p0 1.078e+04 ± 8.217
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

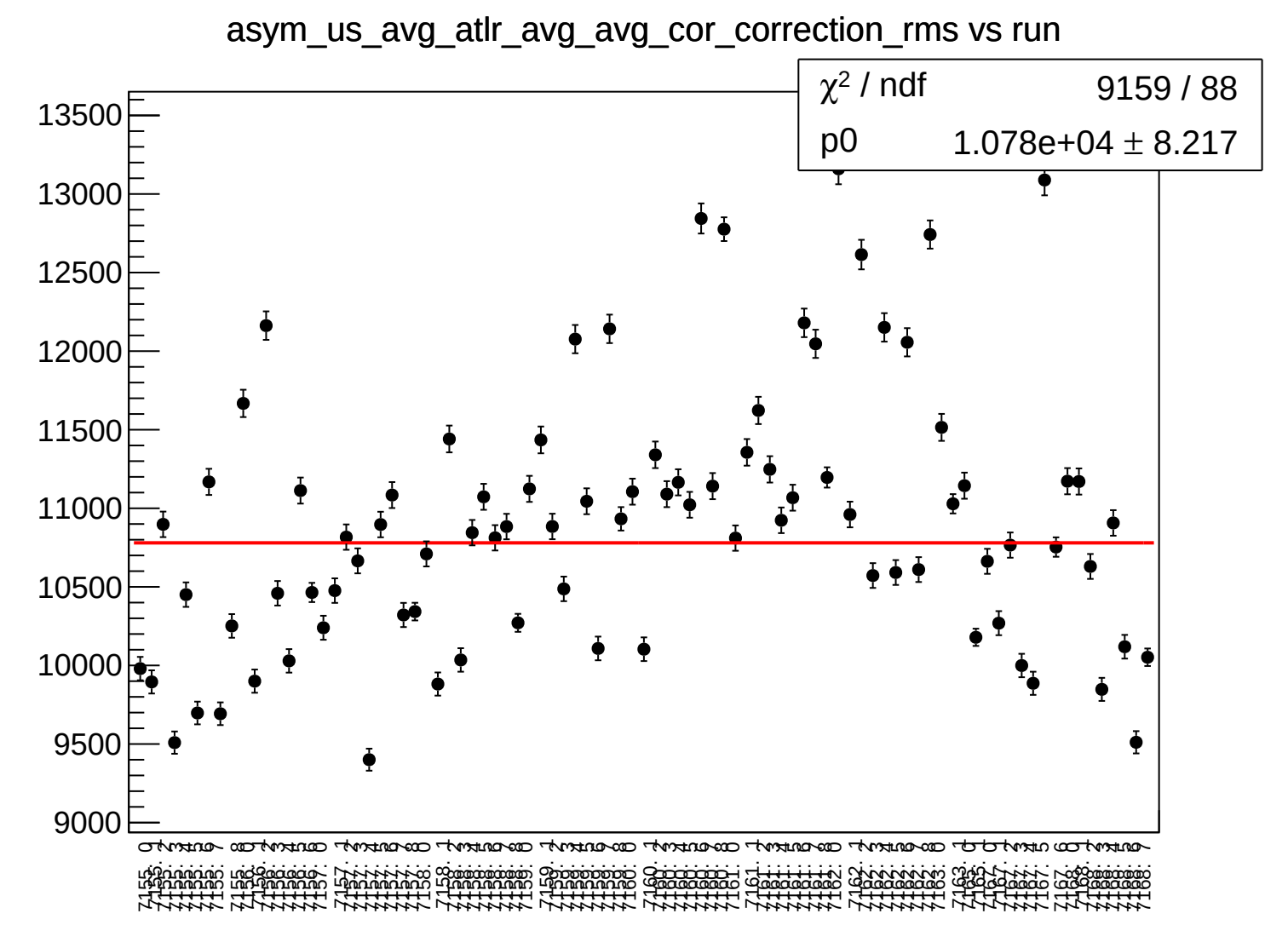

cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.61 / 88
p0 −4658 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −261.4
Std Dev 0
2
1
0
−1
−2

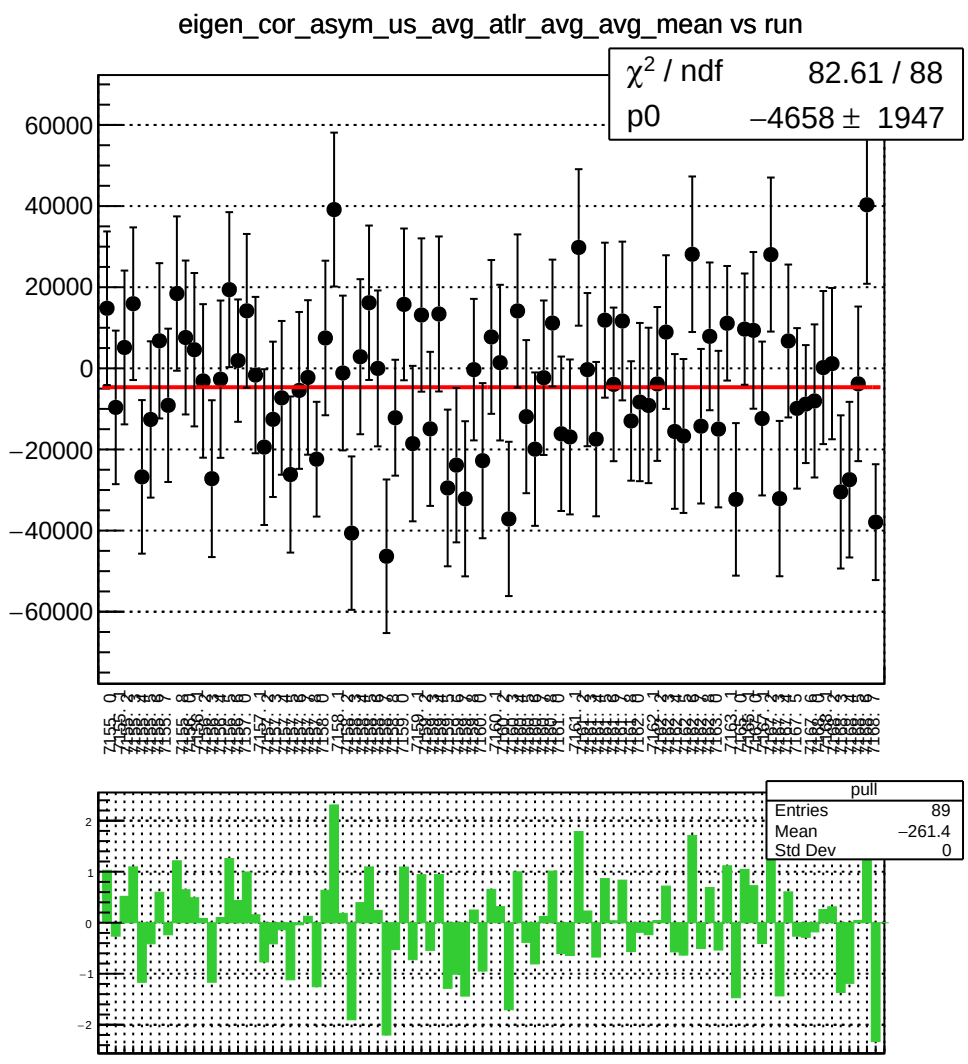

pull1D
Entries 89
Mean 0.005171
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

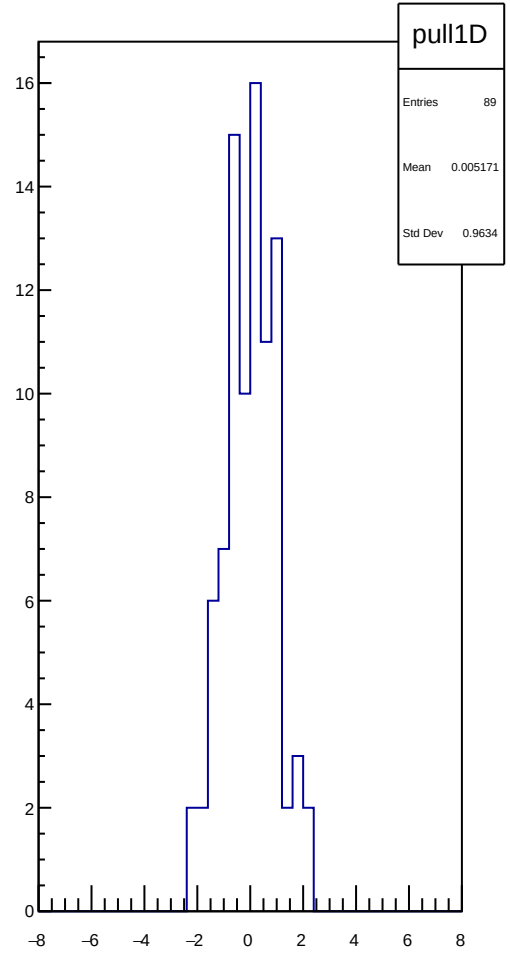

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 199.4 / 88
p0 1811 ± 1.377
1900
1880
1860
1840
1820
1800
1780
1760

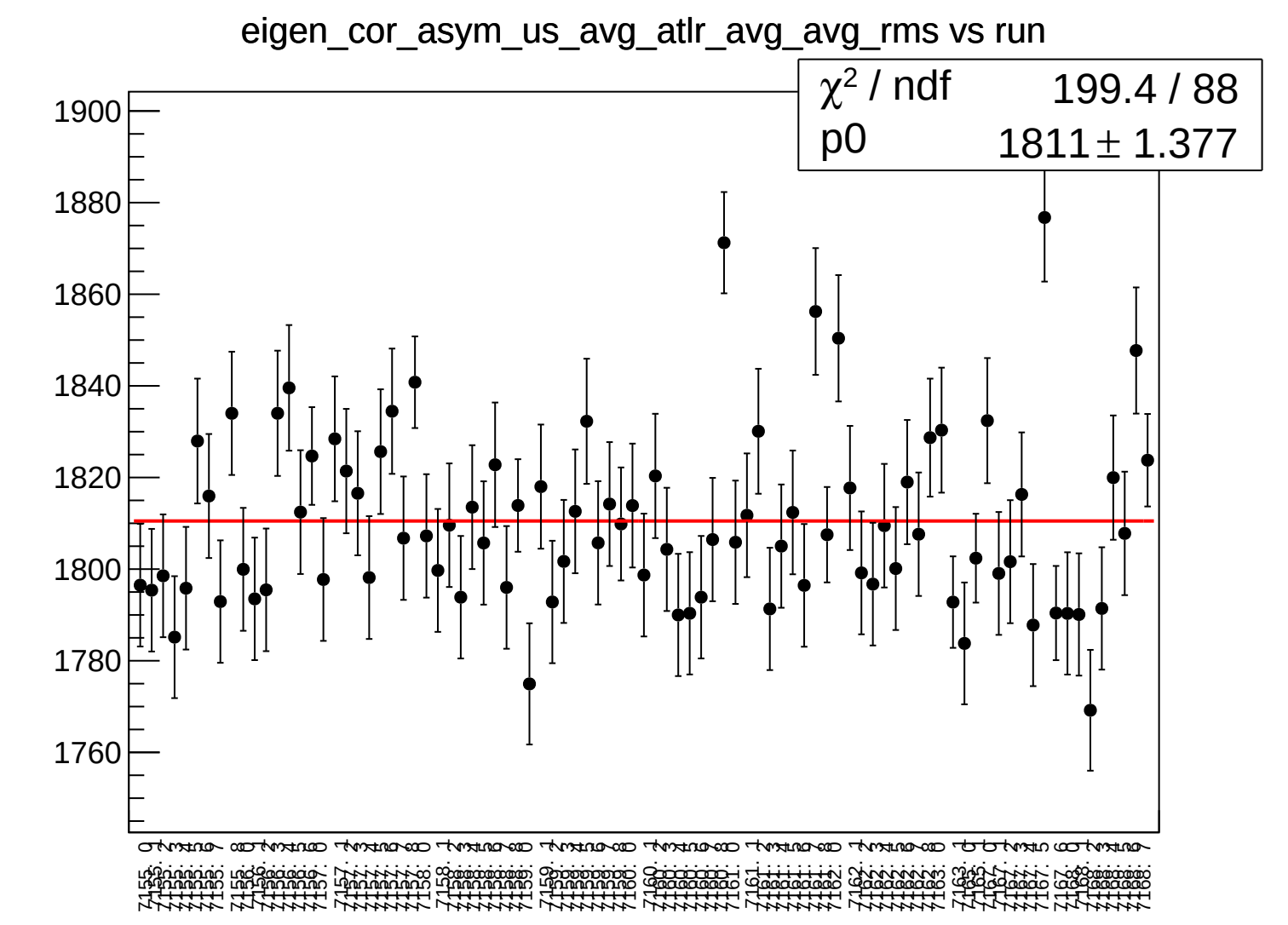

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1911 ± 1.162e+04
pull
Entries 89
Mean −15.55
Std Dev 0

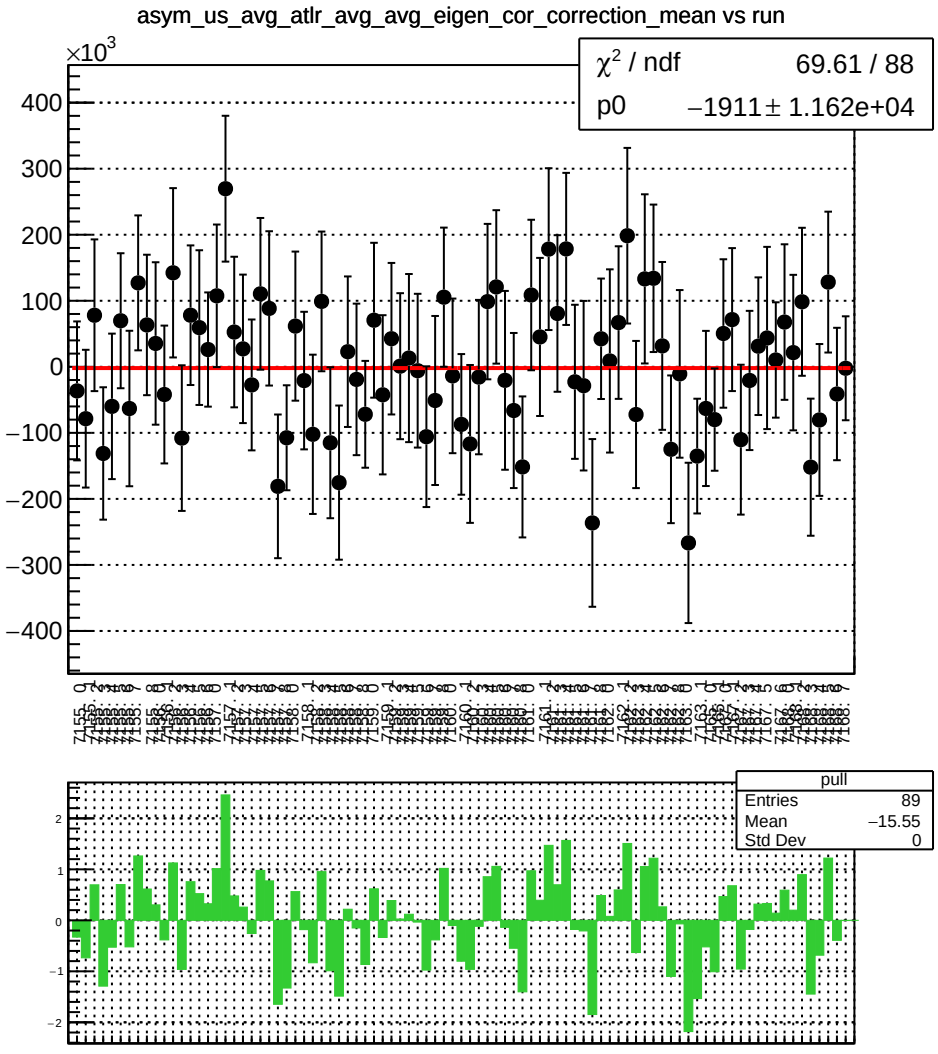

pull1D
Entries 89
Mean 0.02272
Std Dev 0.8841

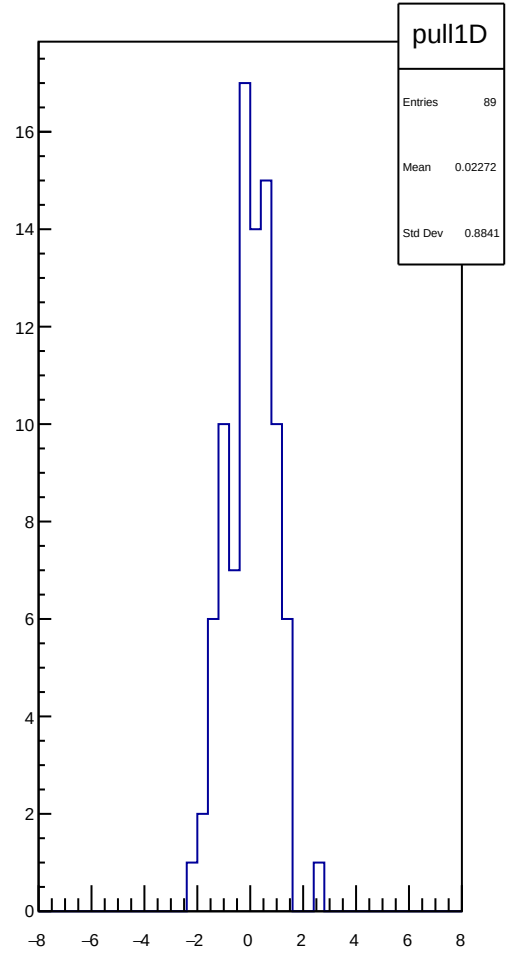

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 9159 / 88
p0 1.078e+04 ± 8.217
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

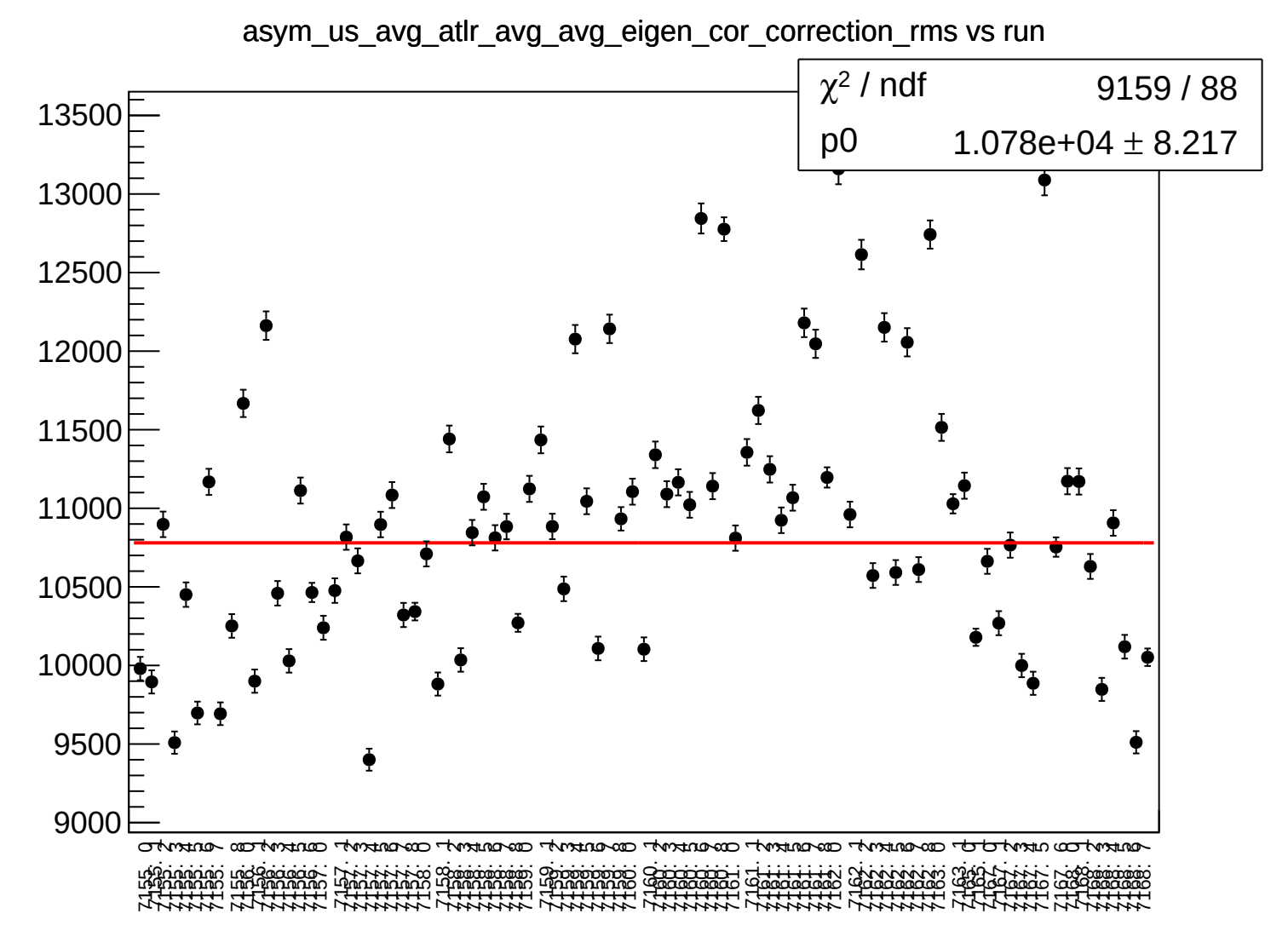

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 82.61 / 88
p0 −4658 ± 1947
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −261.4
Std Dev 0
2
1
0
−1
−2

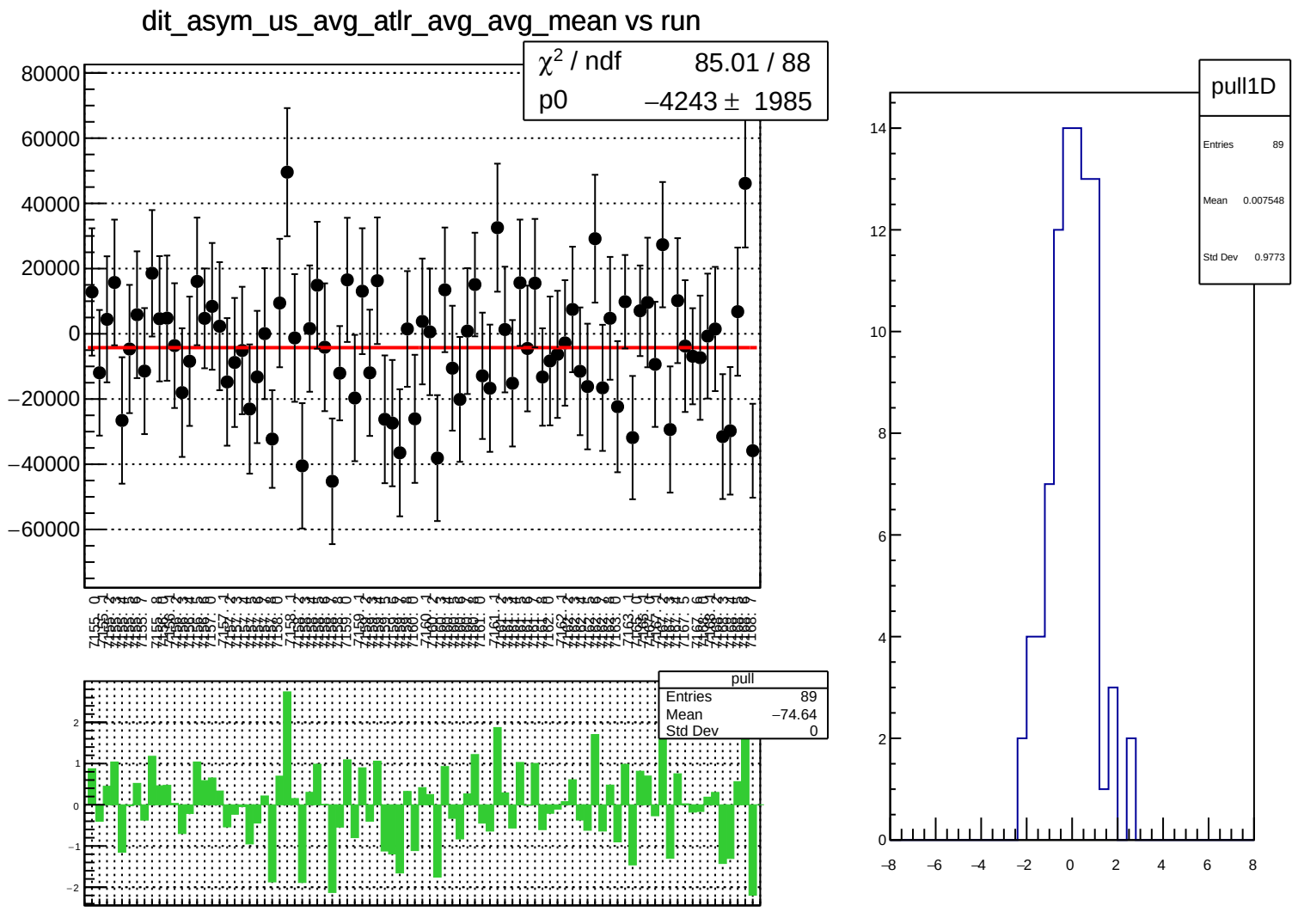

pull1D
Entries 89
Mean 0.005171
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

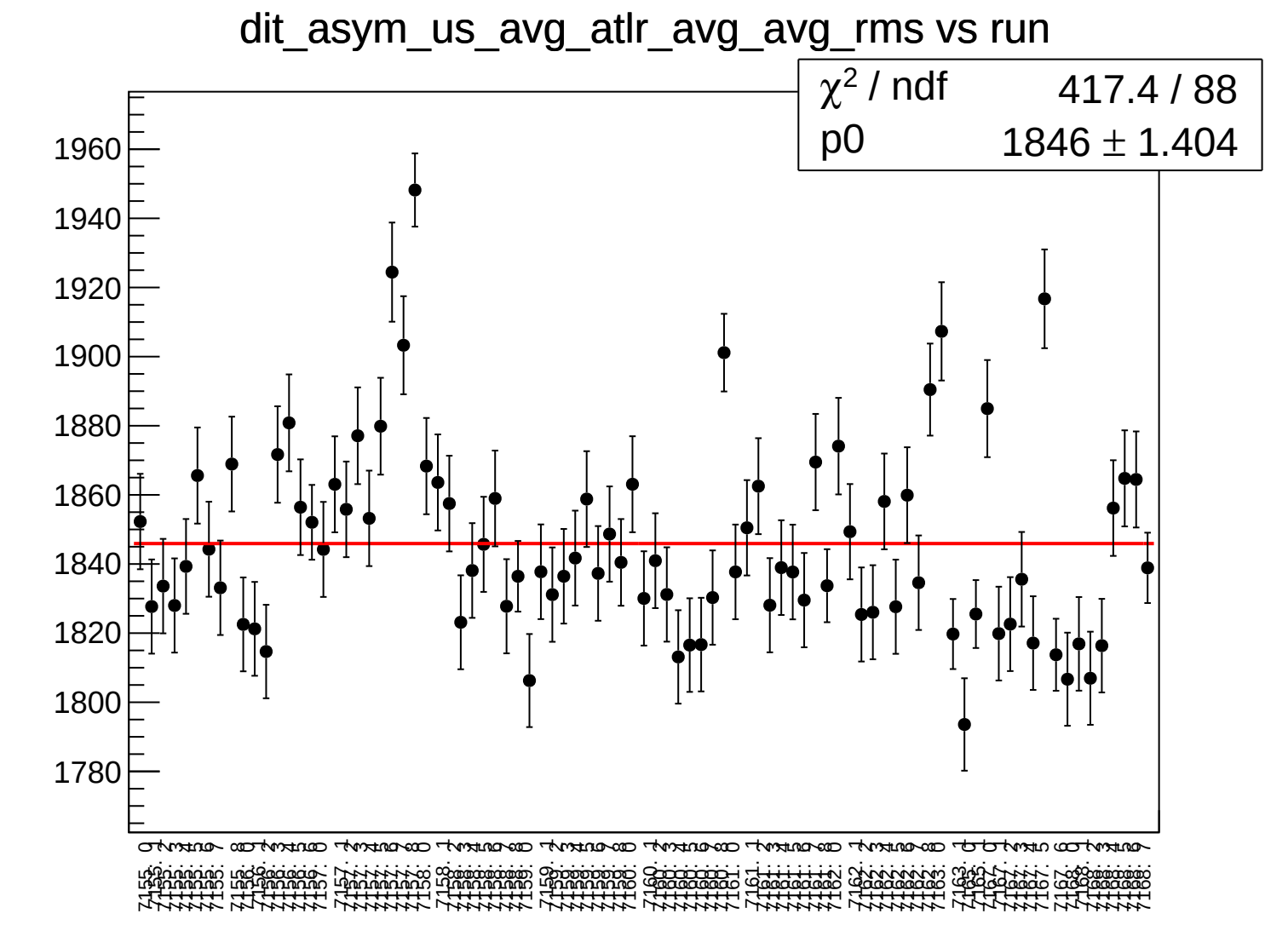

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 199.4 / 88
p0 1811 ± 1.377
1900
1880
1860
1840
1820
1800
1780
1760

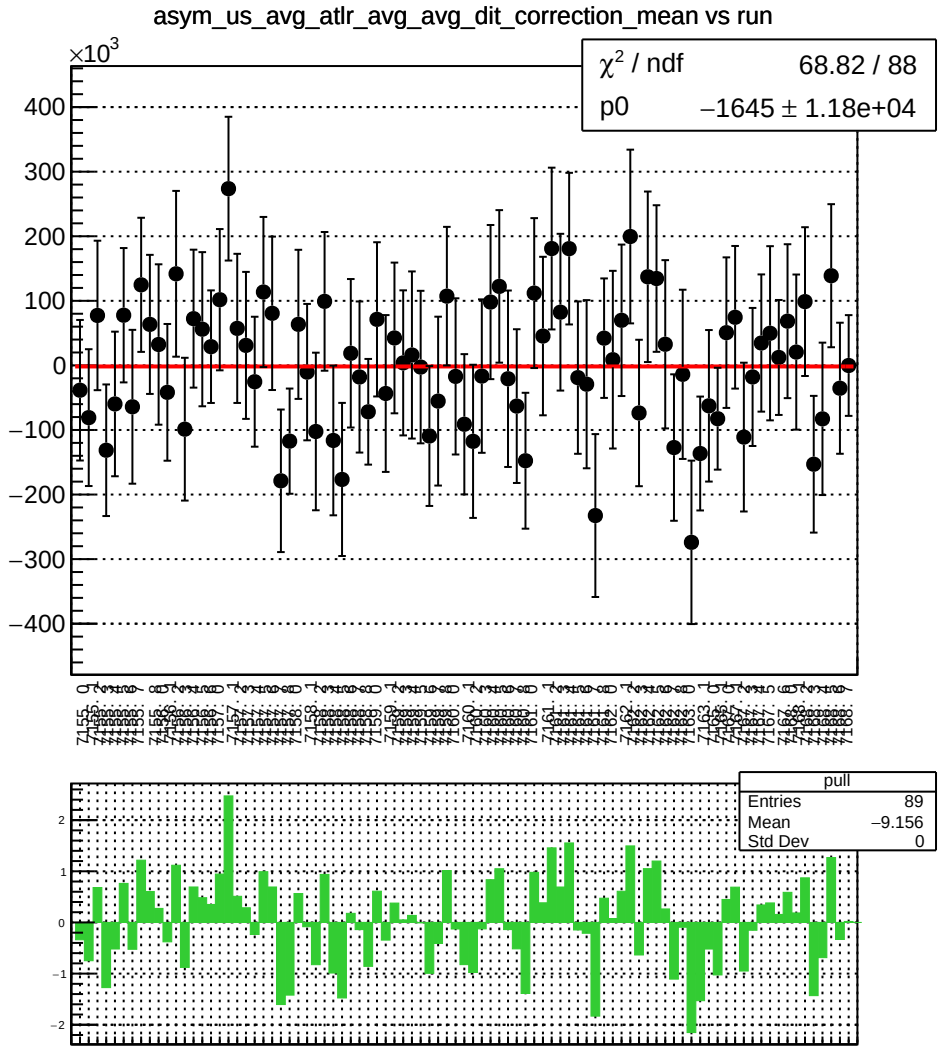

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.61 / 88
p0 −1911 ± 1.162e+04
pull
Entries 89
Mean −15.55
Std Dev 0

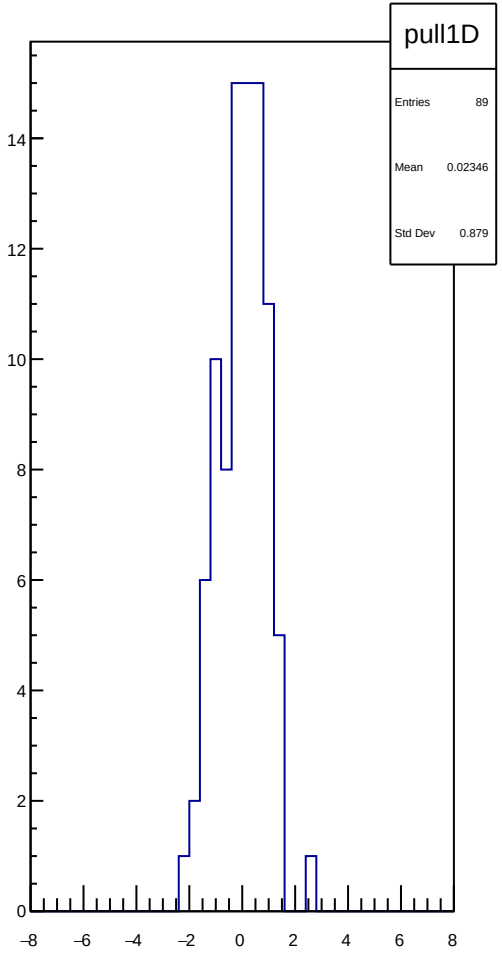

pull1D
Entries 89
Mean 0.02272
Std Dev 0.8841

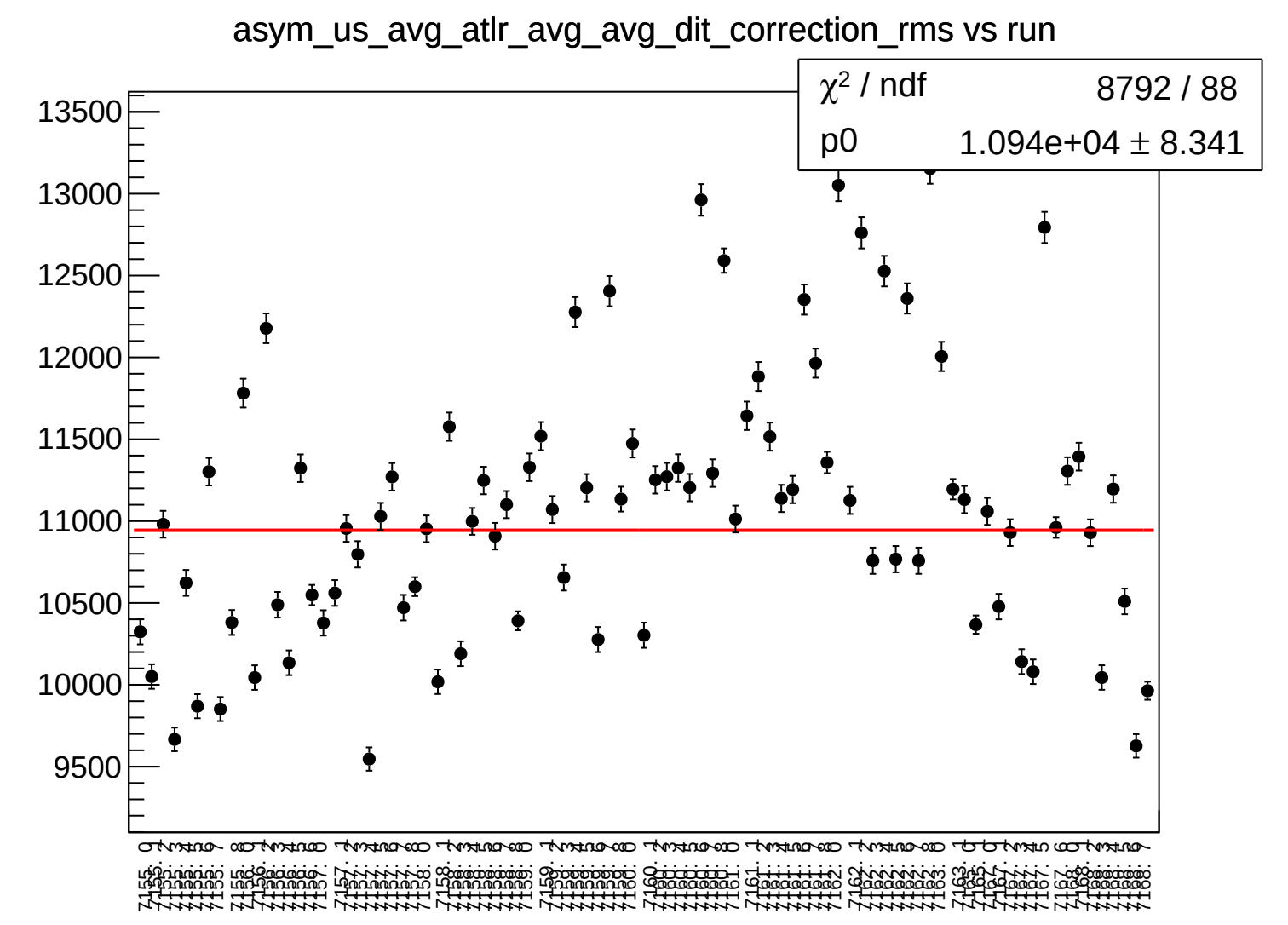

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 9159 / 88
p0 1.078e+04 ± 8.217
13500
13000
12500
12000
11500
11000
10500
10000
9500
9000

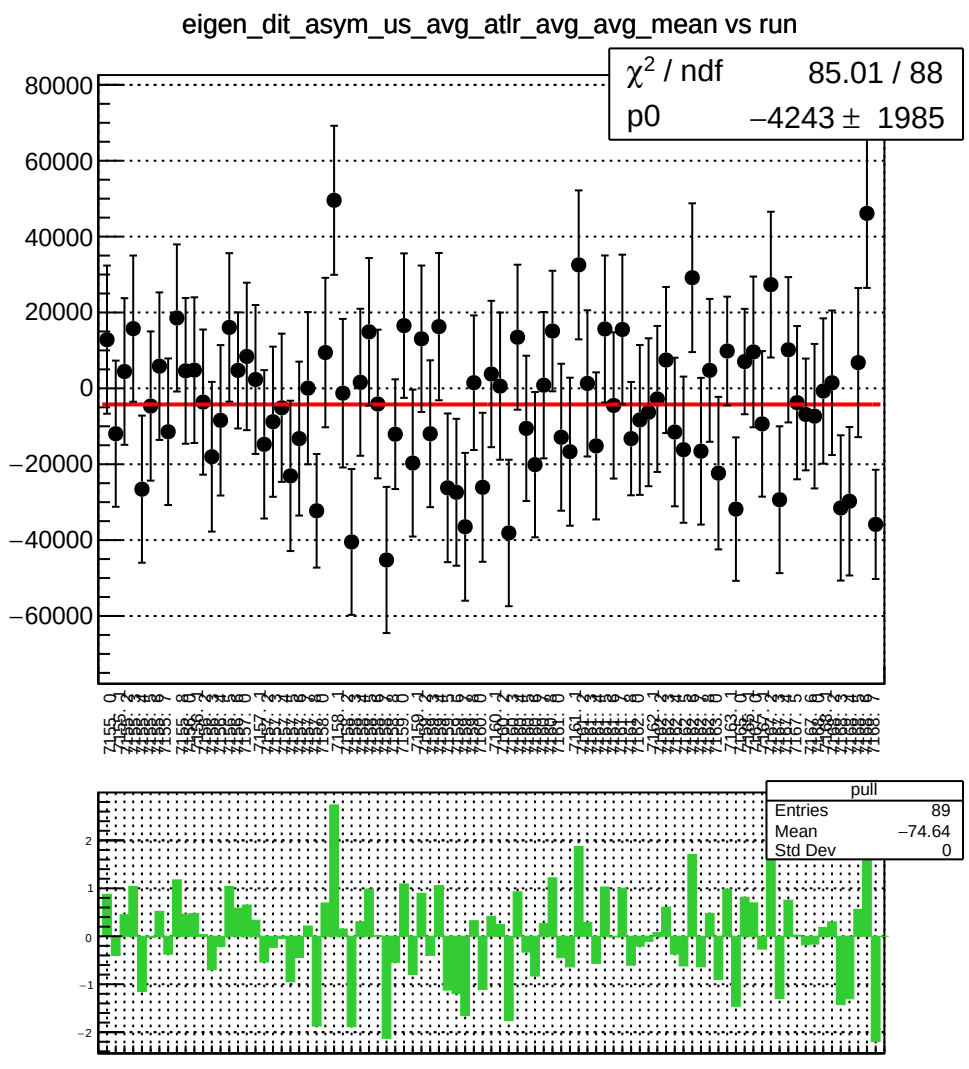

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 85.01 / 88
p0 −4243 ± 1985
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −74.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.007548
Std Dev 0.9773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

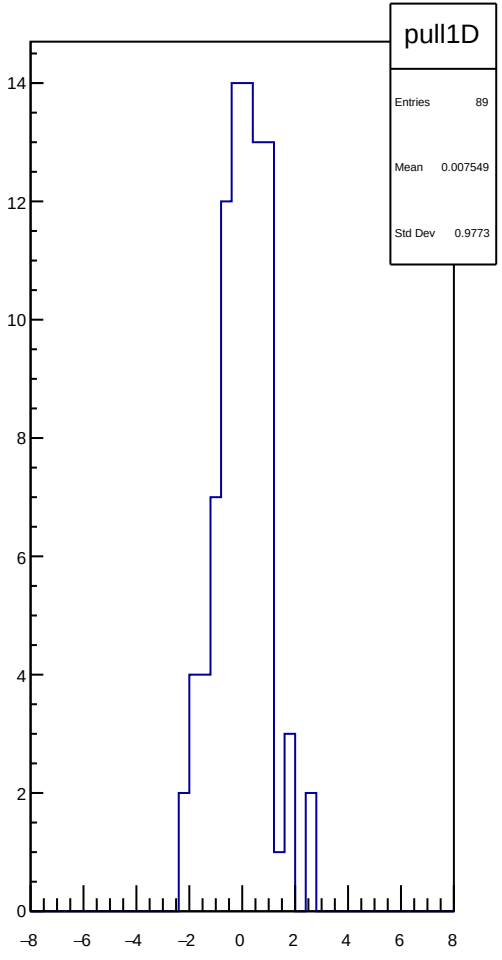

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 417.4 / 88
p0 1846 ± 1.404
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

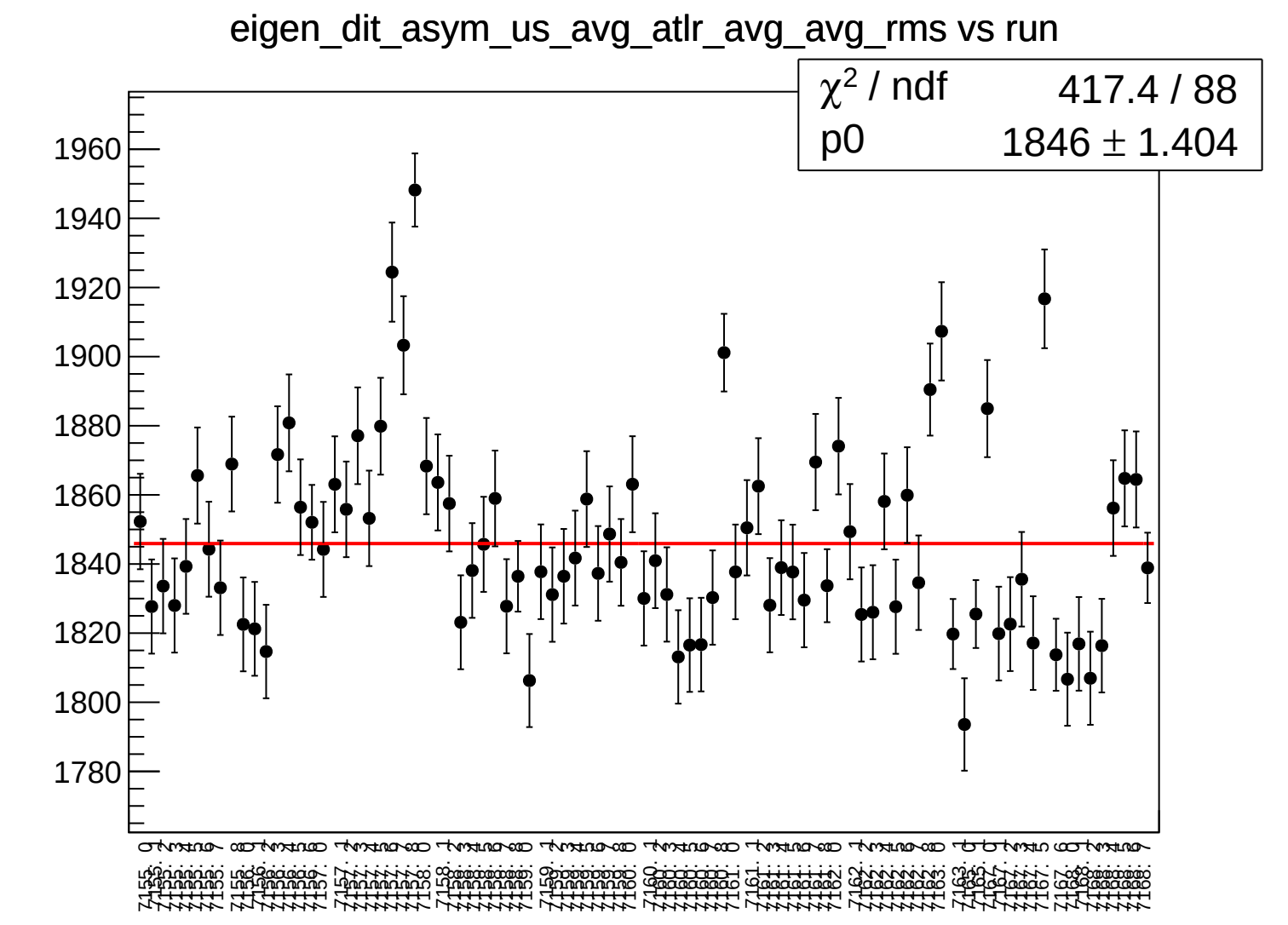

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 −1645 ± 1.18e+04
pull
Entries 89
Mean −9.156
Std Dev 0

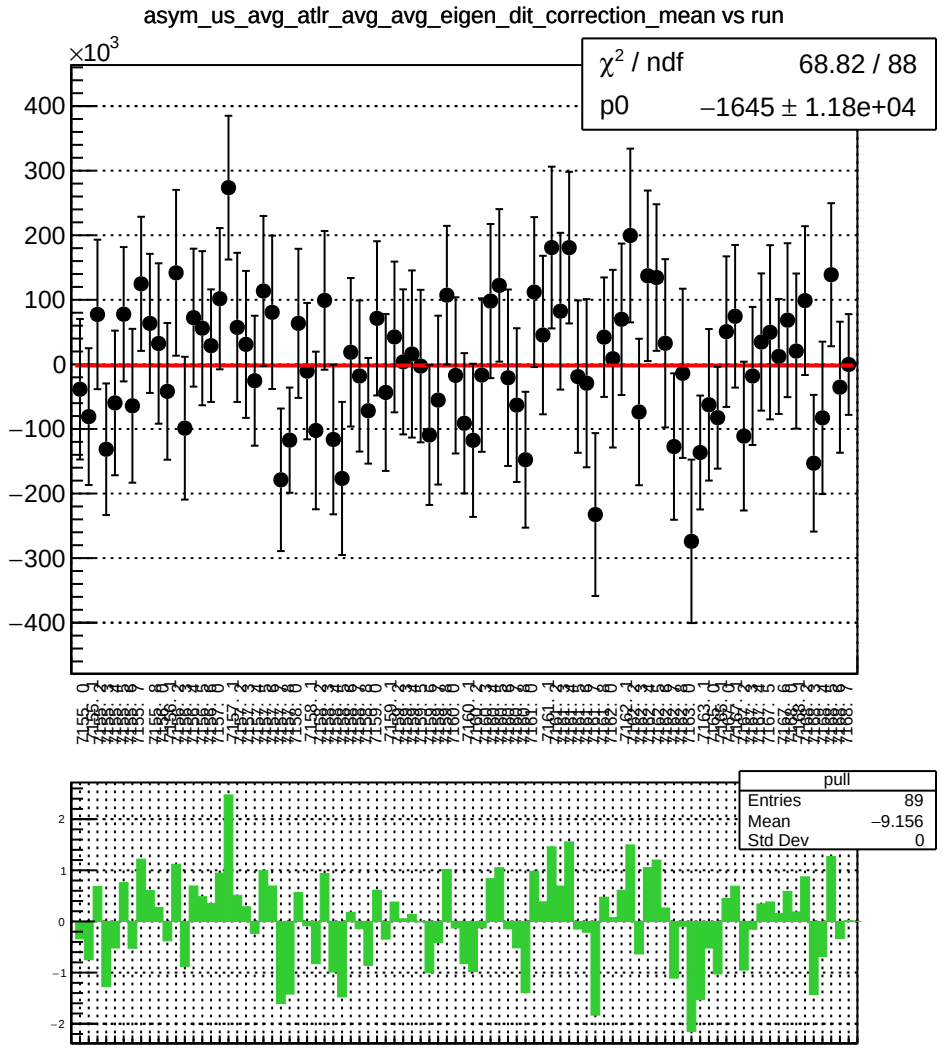

pull1D
Entries 89
Mean 0.02346
Std Dev 0.879

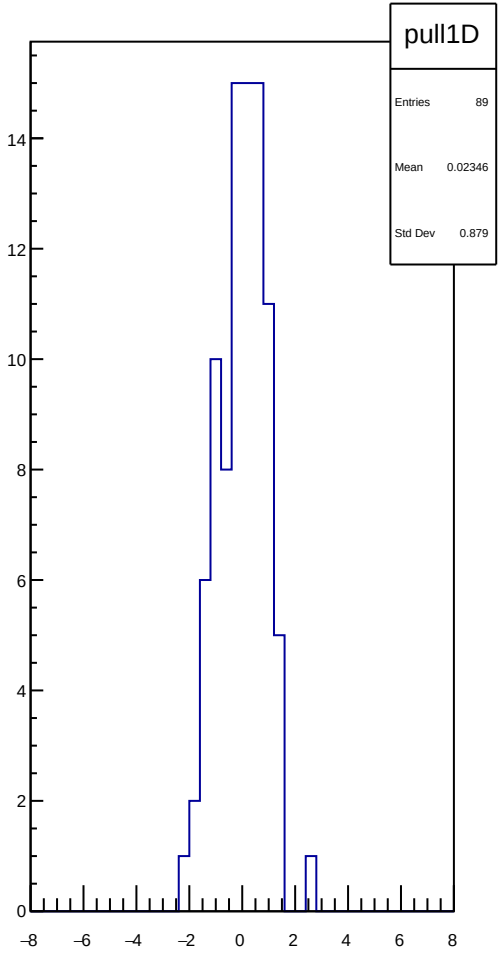

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 8792 / 88
p0 1.094e+04 ± 8.341
13500
13000
12500
12000
11500
11000
10500
10000
9500

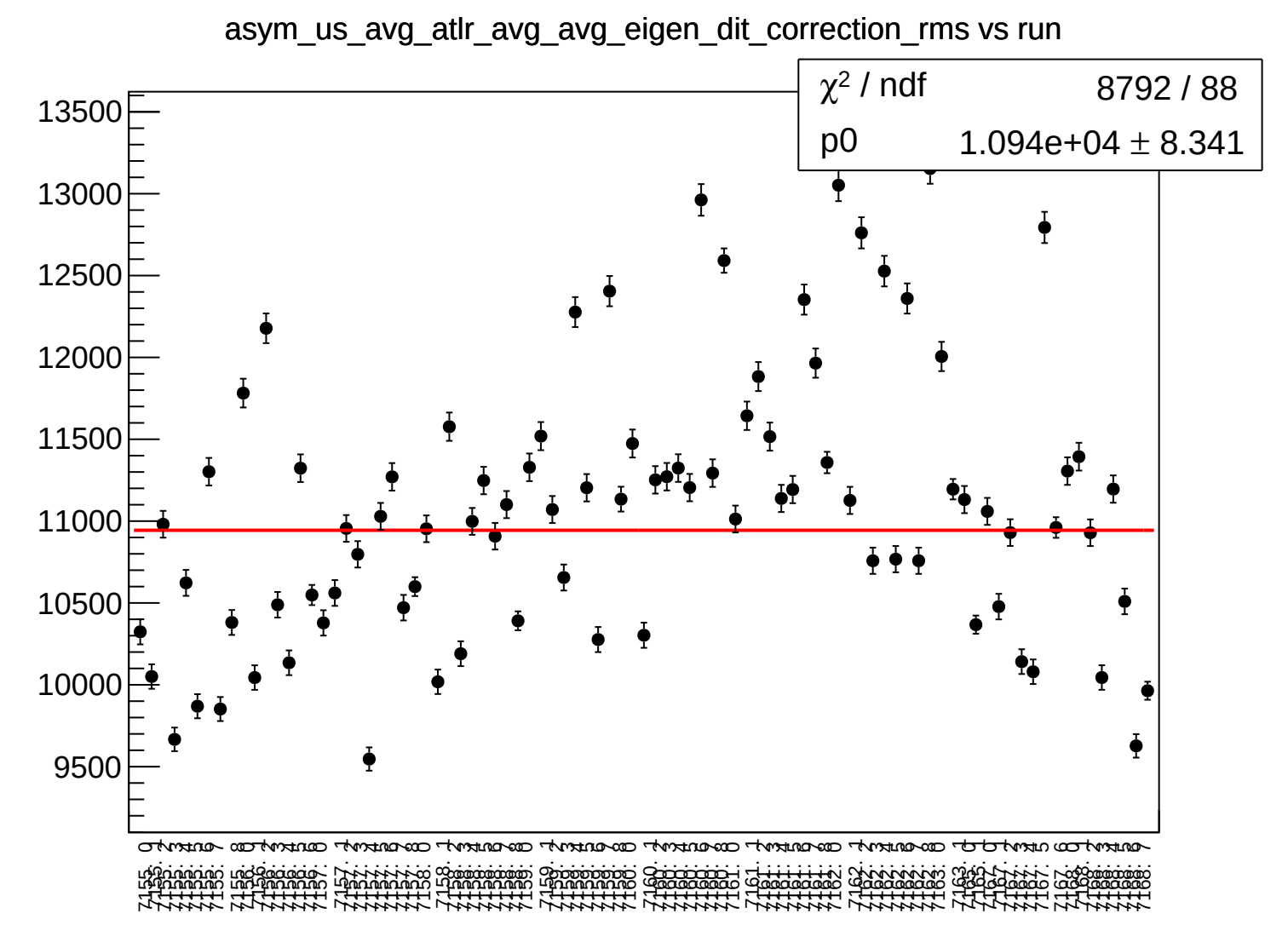

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 85.01 / 88
p0 −4243 ± 1985
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −74.64
Std Dev 0
2
1
0
−1
−2

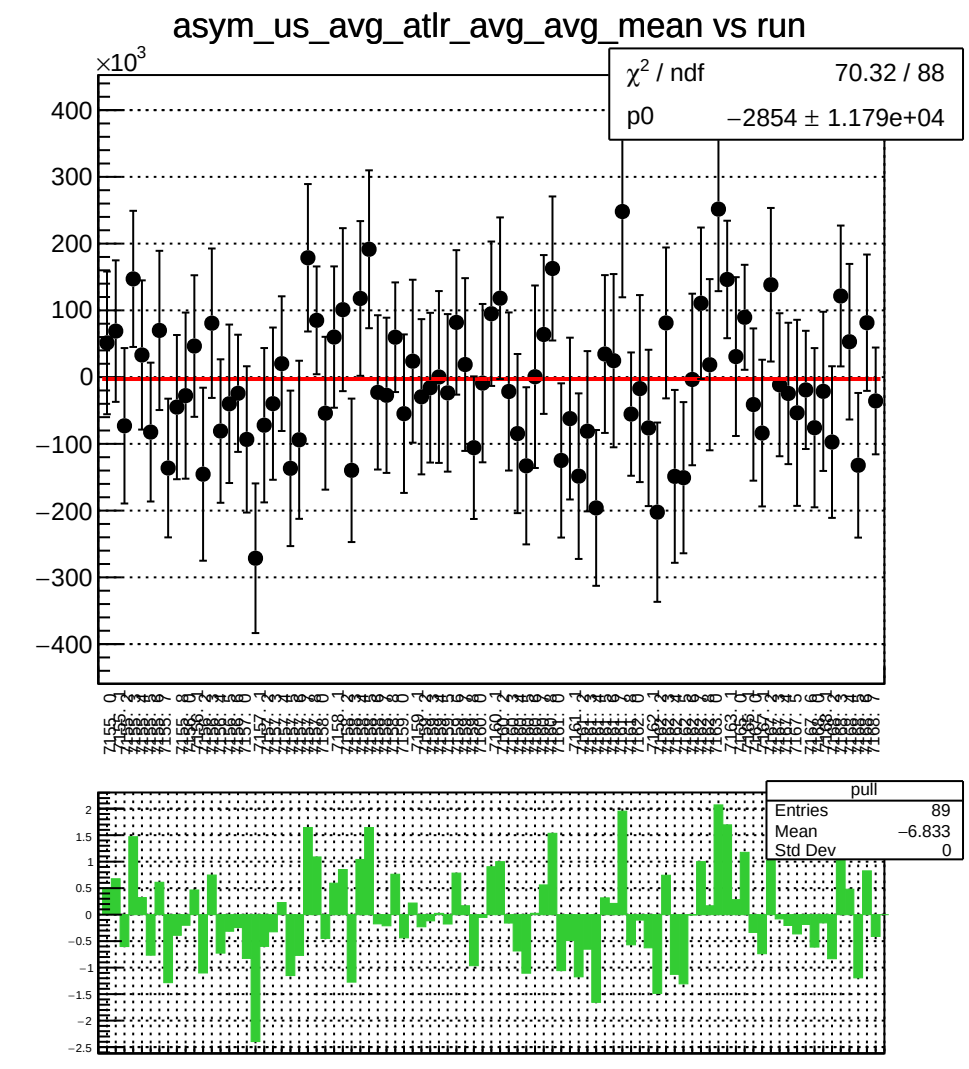

pull1D
Entries 89
Mean 0.007549
Std Dev 0.9773
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

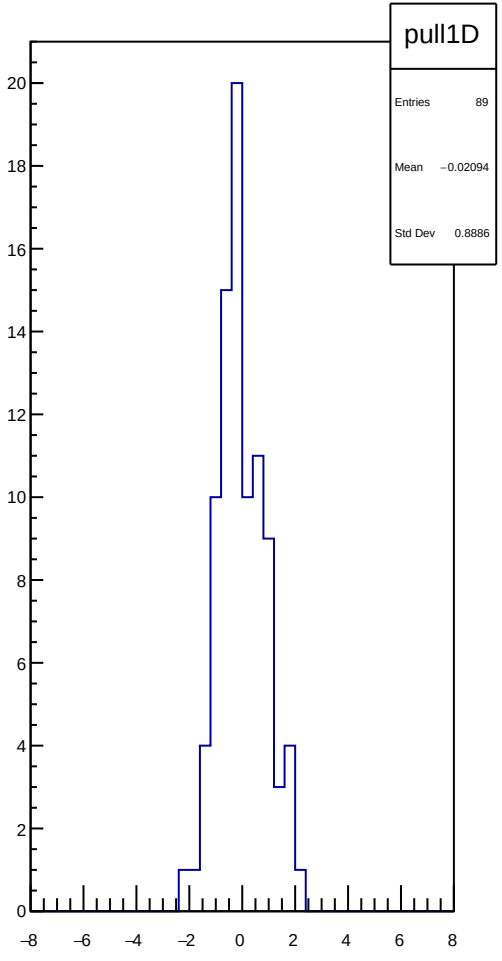

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 417.4 / 88
p0 1846 ± 1.404
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

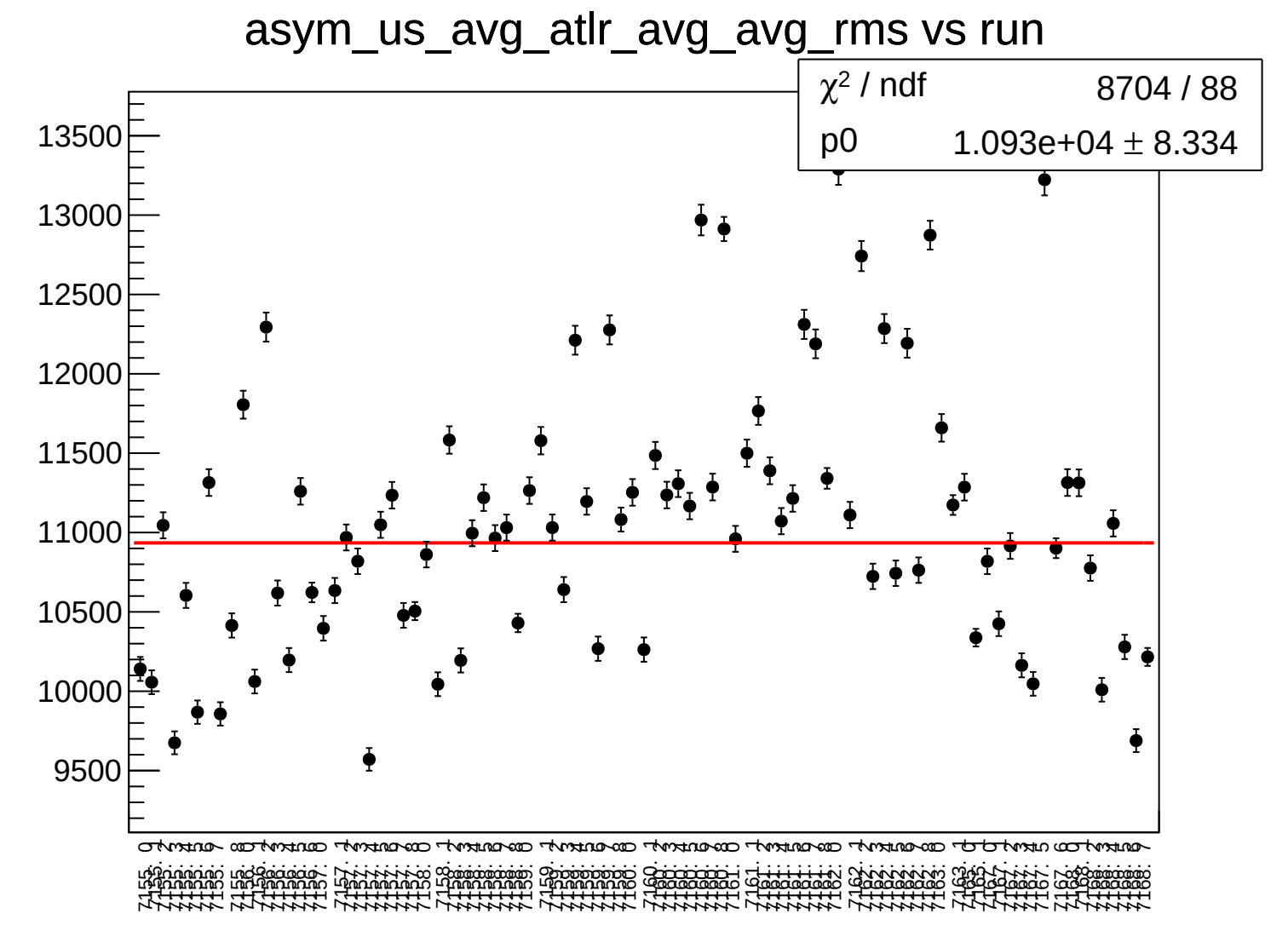

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 68.82 / 88
p0 −1645 ± 1.18e+04
pull
Entries 89
Mean −9.156
Std Dev 0

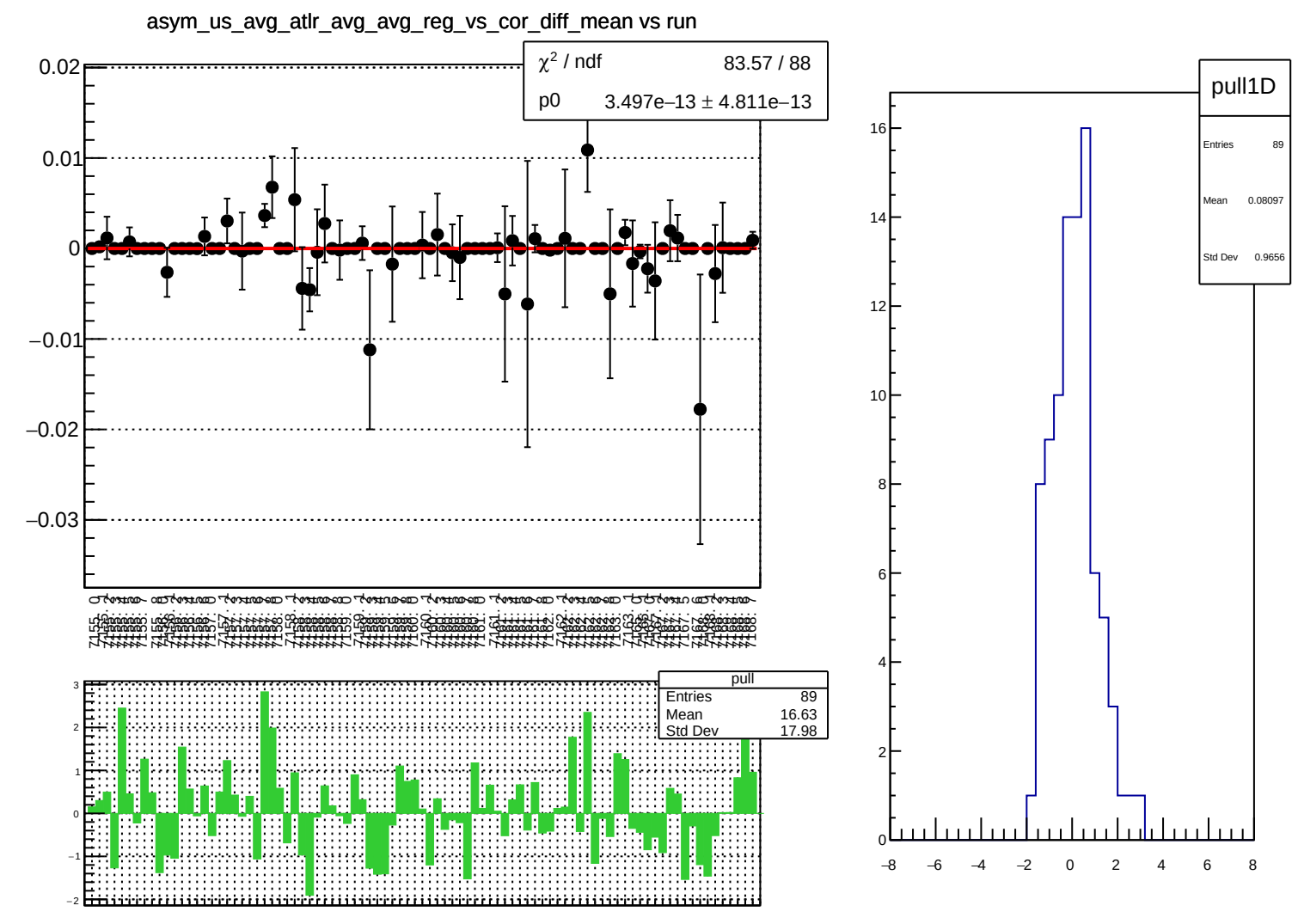

pull1D
Entries 89
Mean 0.02346
Std Dev 0.879

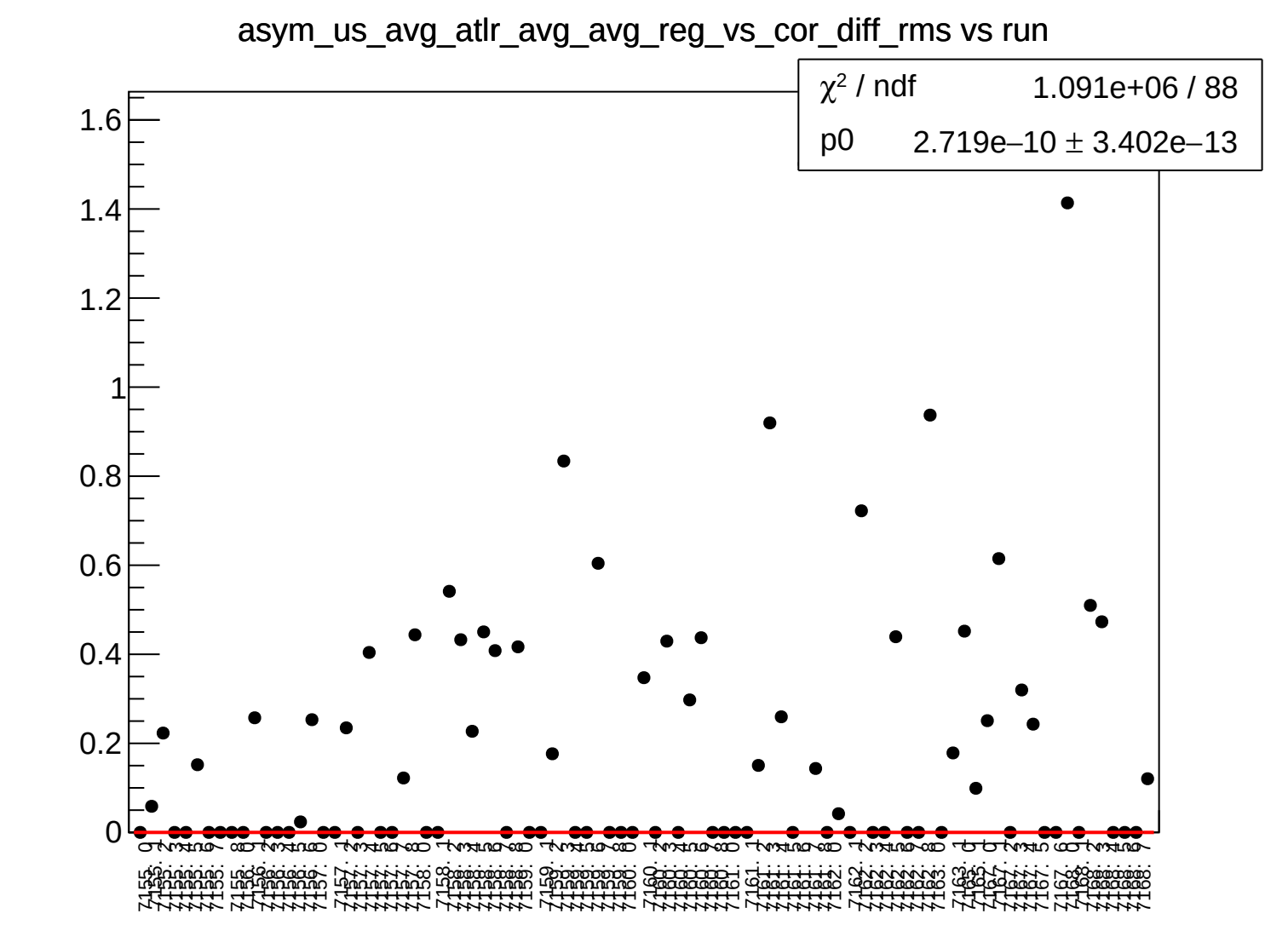

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 8792 / 88
p0 1.094e+04 ± 8.341
13500
13000
12500
12000
11500
11000
10500
10000
9500

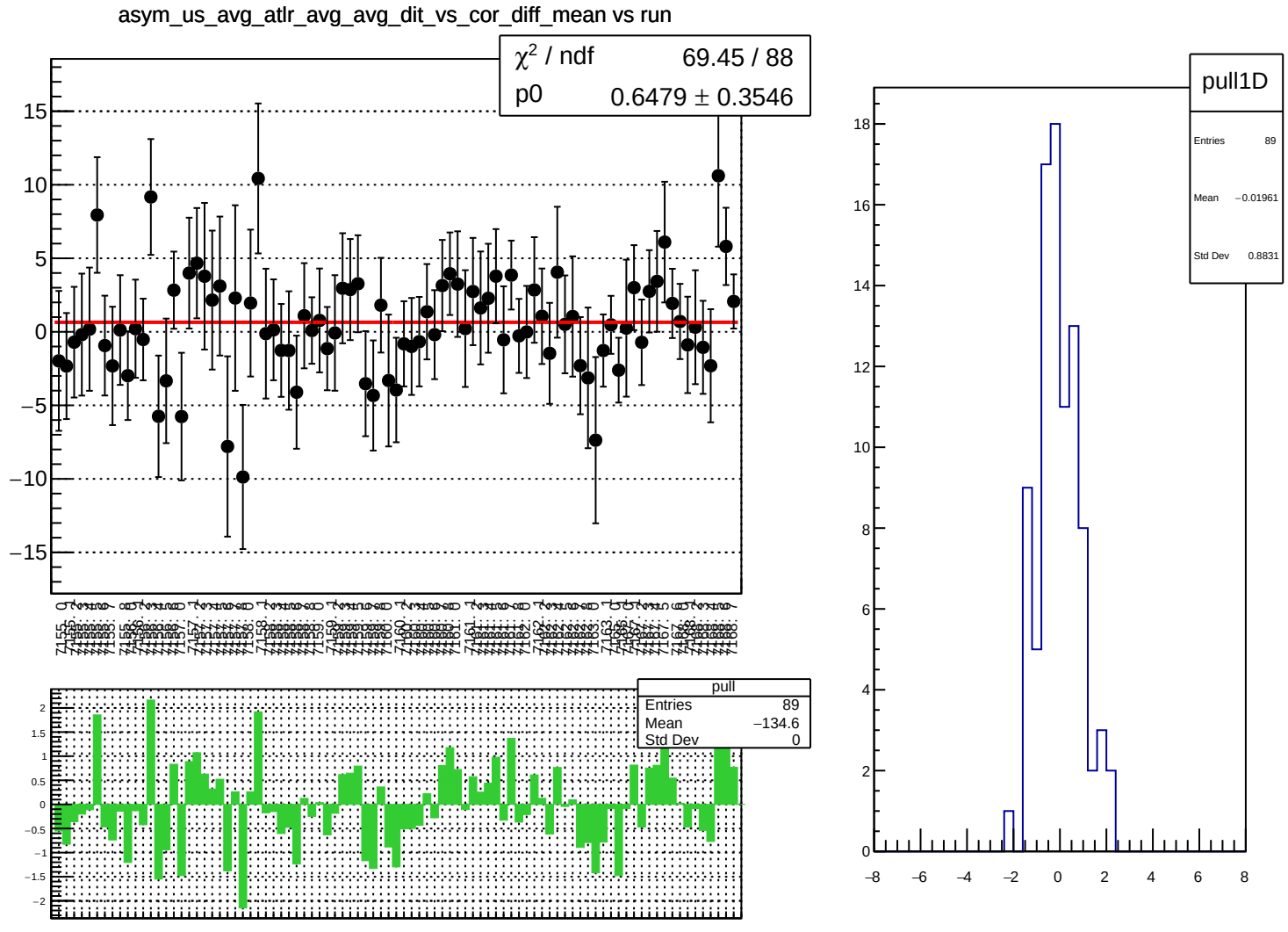

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 70.32 / 88
p0 −2854 ± 1.179e+04
pull
Entries 89
Mean −6.833
Std Dev 0

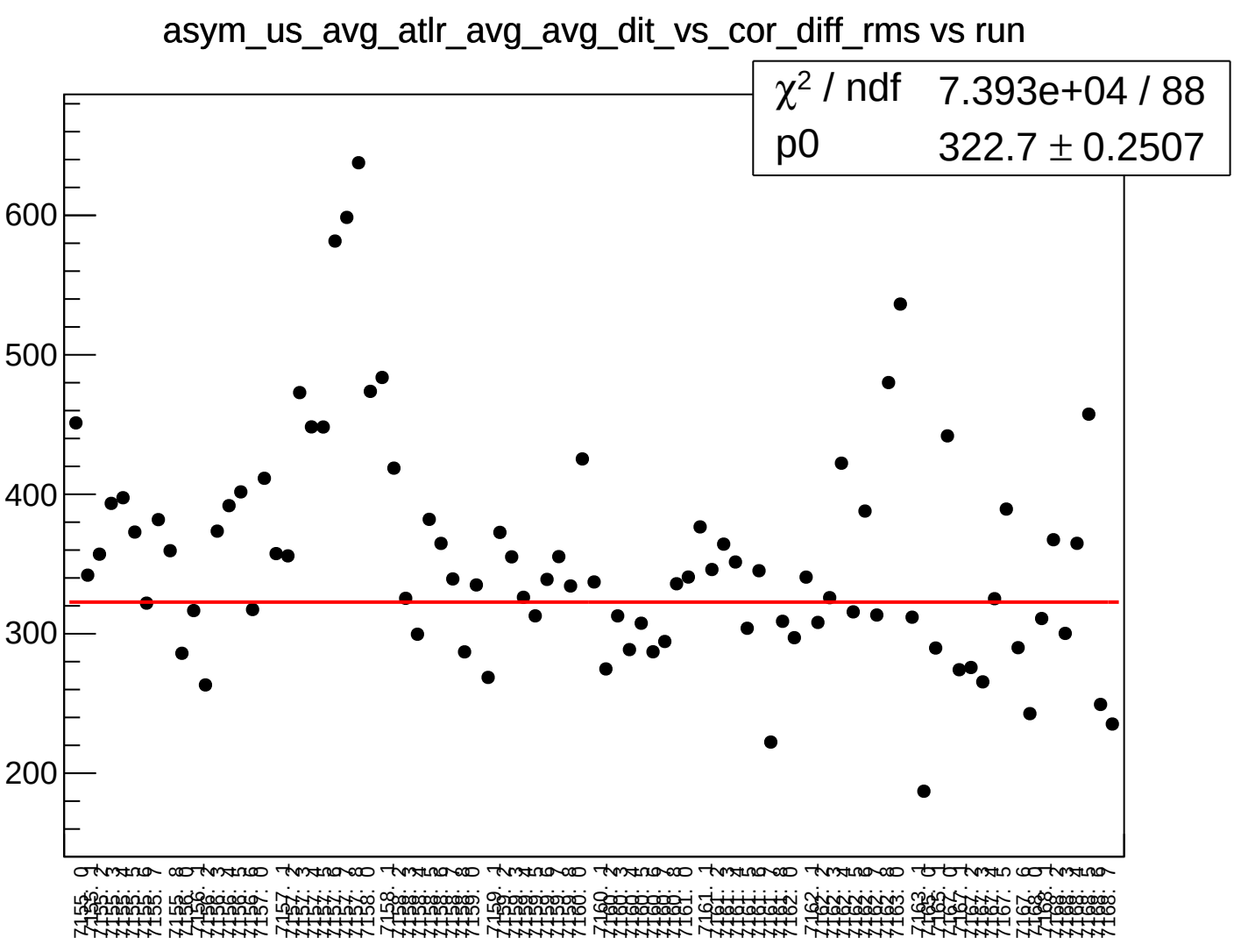

pull1D
Entries 89
Mean −0.02094
Std Dev 0.8886

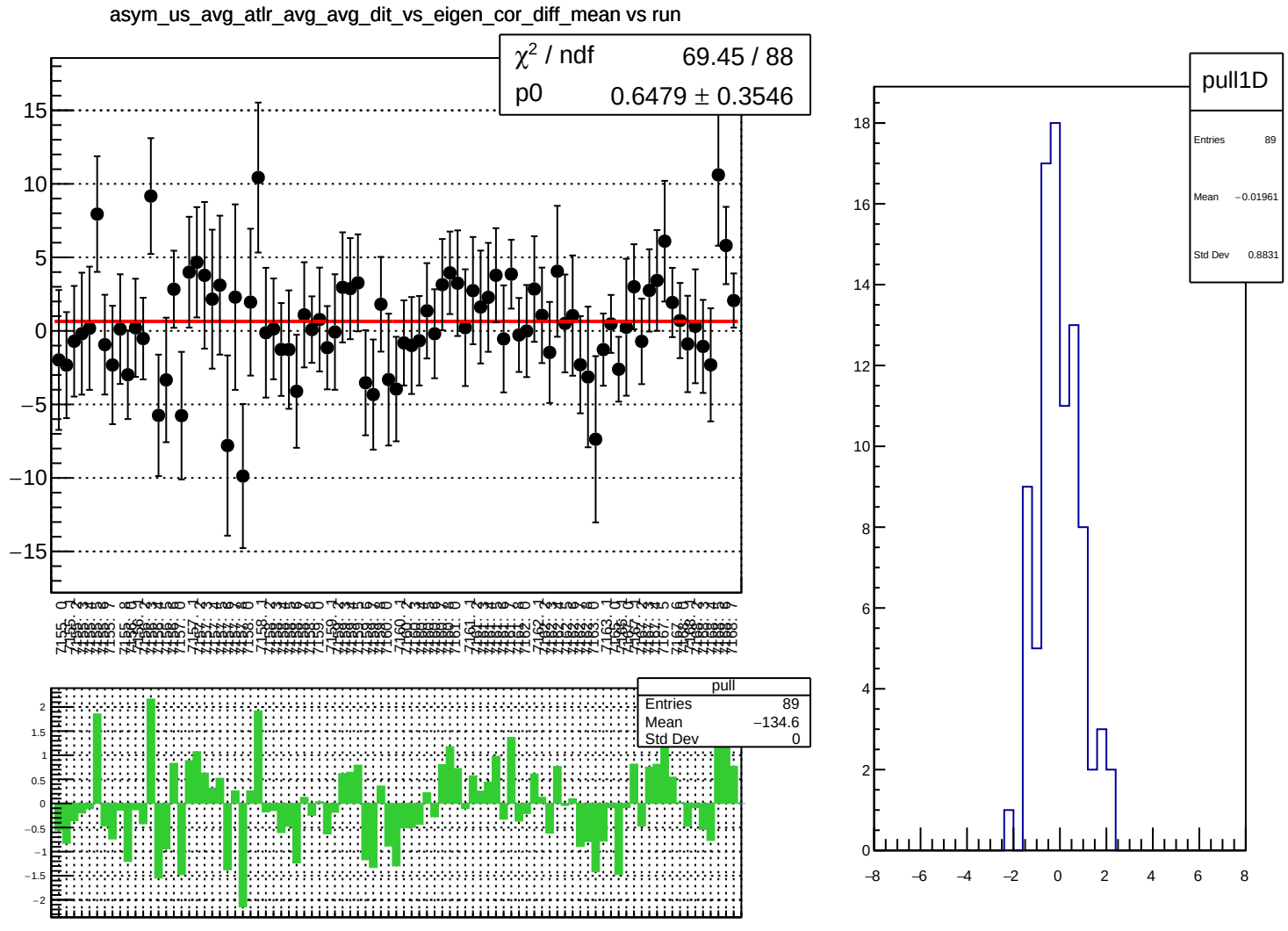

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 8704 / 88
p0 1.093e+04 ± 8.334
13500
13000
12500
12000
11500
11000
10500
10000
9500

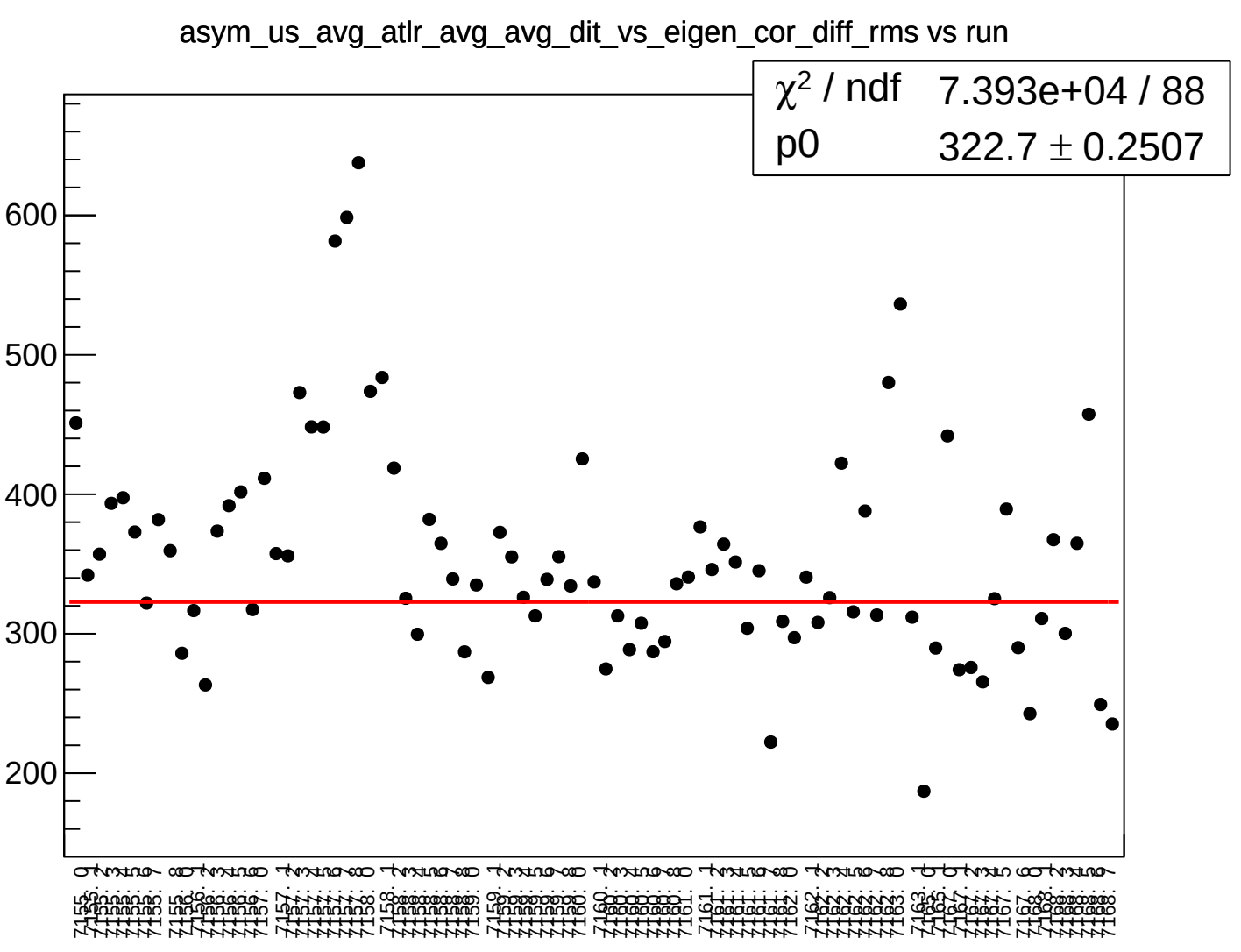

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.57 / 88
p0 3.497e−13 ± 4.811e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 89
Mean 16.63
Std Dev 17.98
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.08097
Std Dev 0.9656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

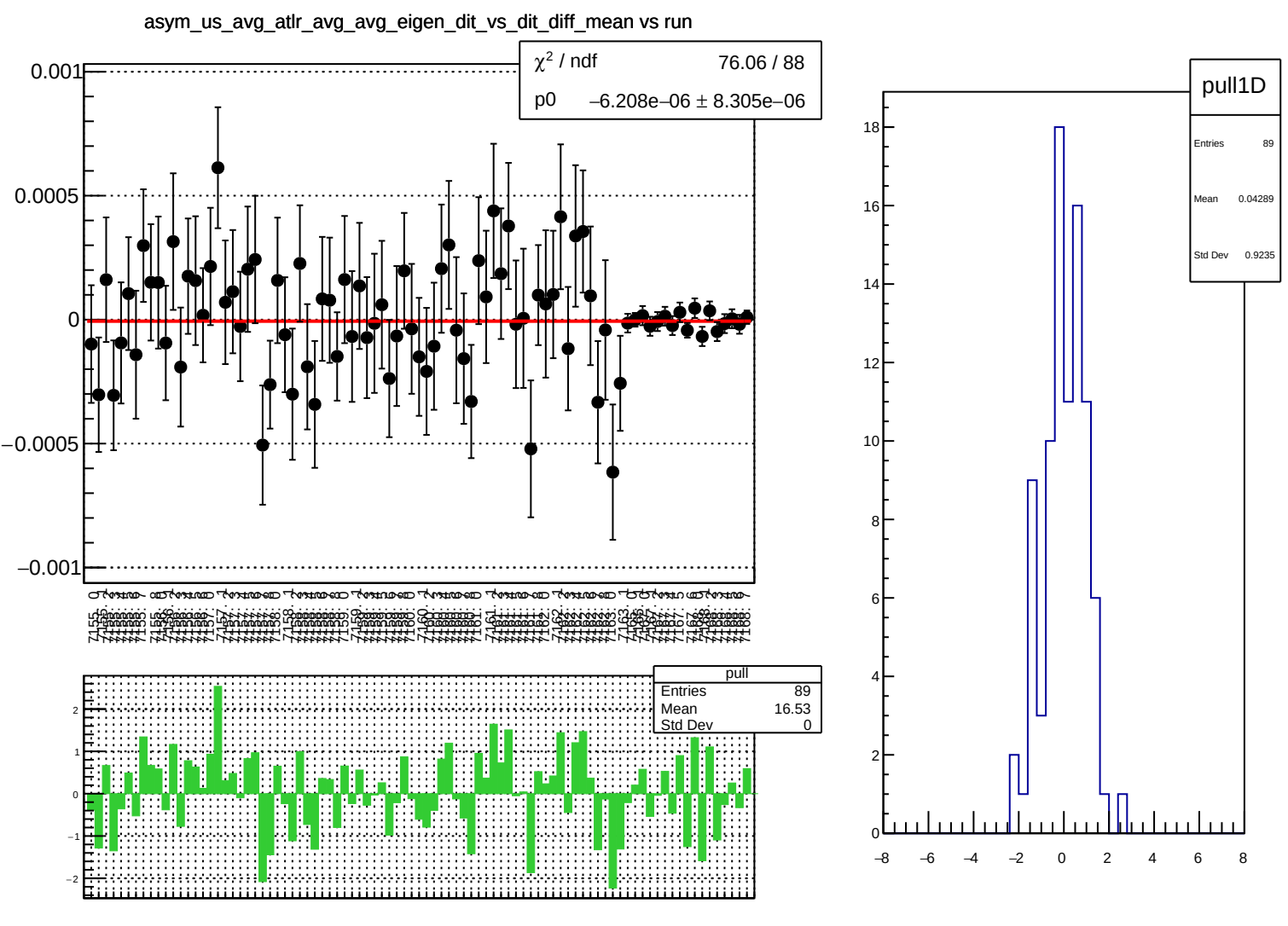

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.091e+06 / 88
p0 2.719e−10 ± 3.402e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

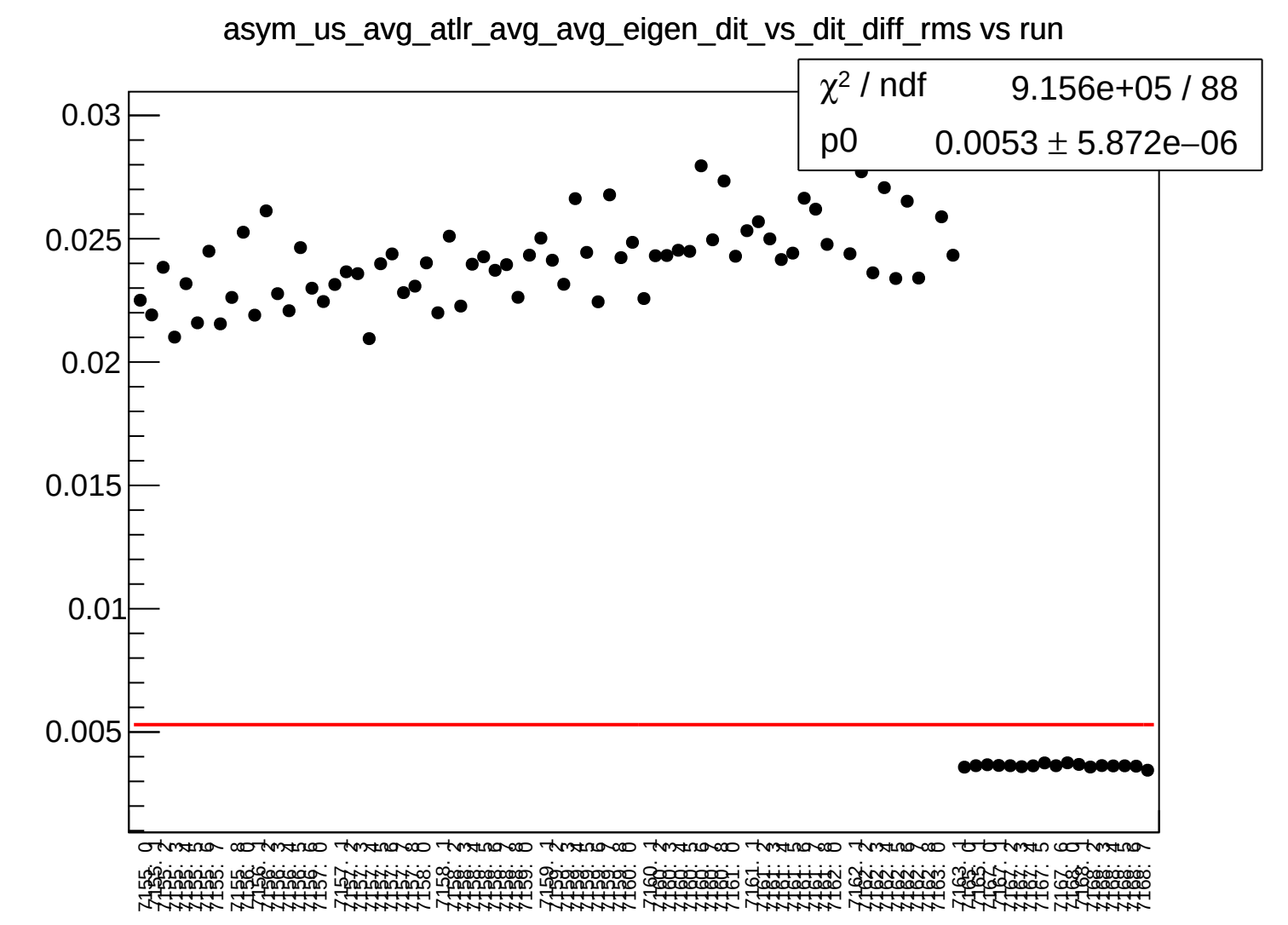

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.45 / 88
p0 0.6479 ± 0.3546
pull
Entries 89
Mean −134.6
Std Dev 0
pull1D
Entries 89
Mean −0.01961
Std Dev 0.8831

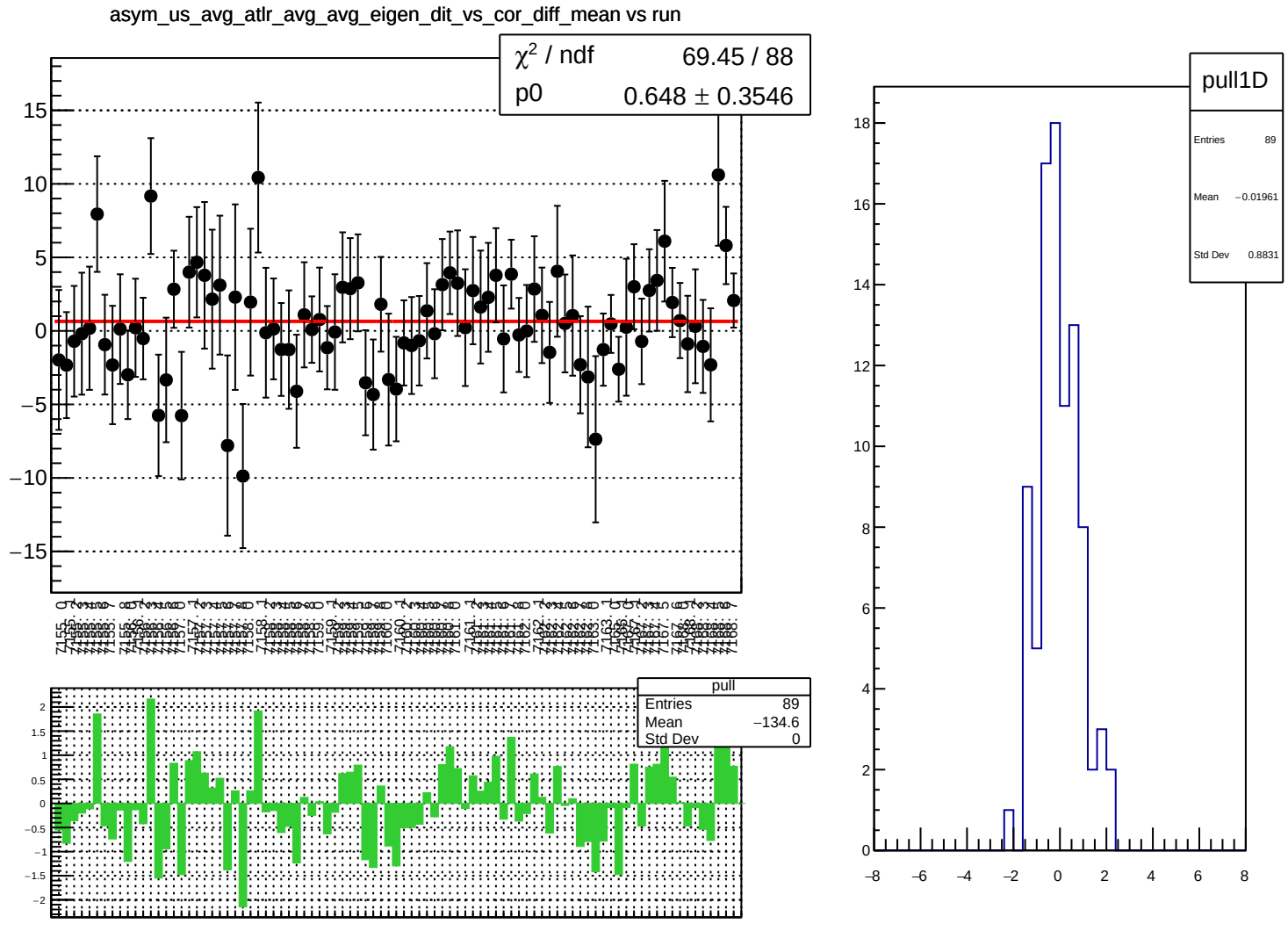

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 88
p0 322.7 ± 0.2507
600
500
400
300
200

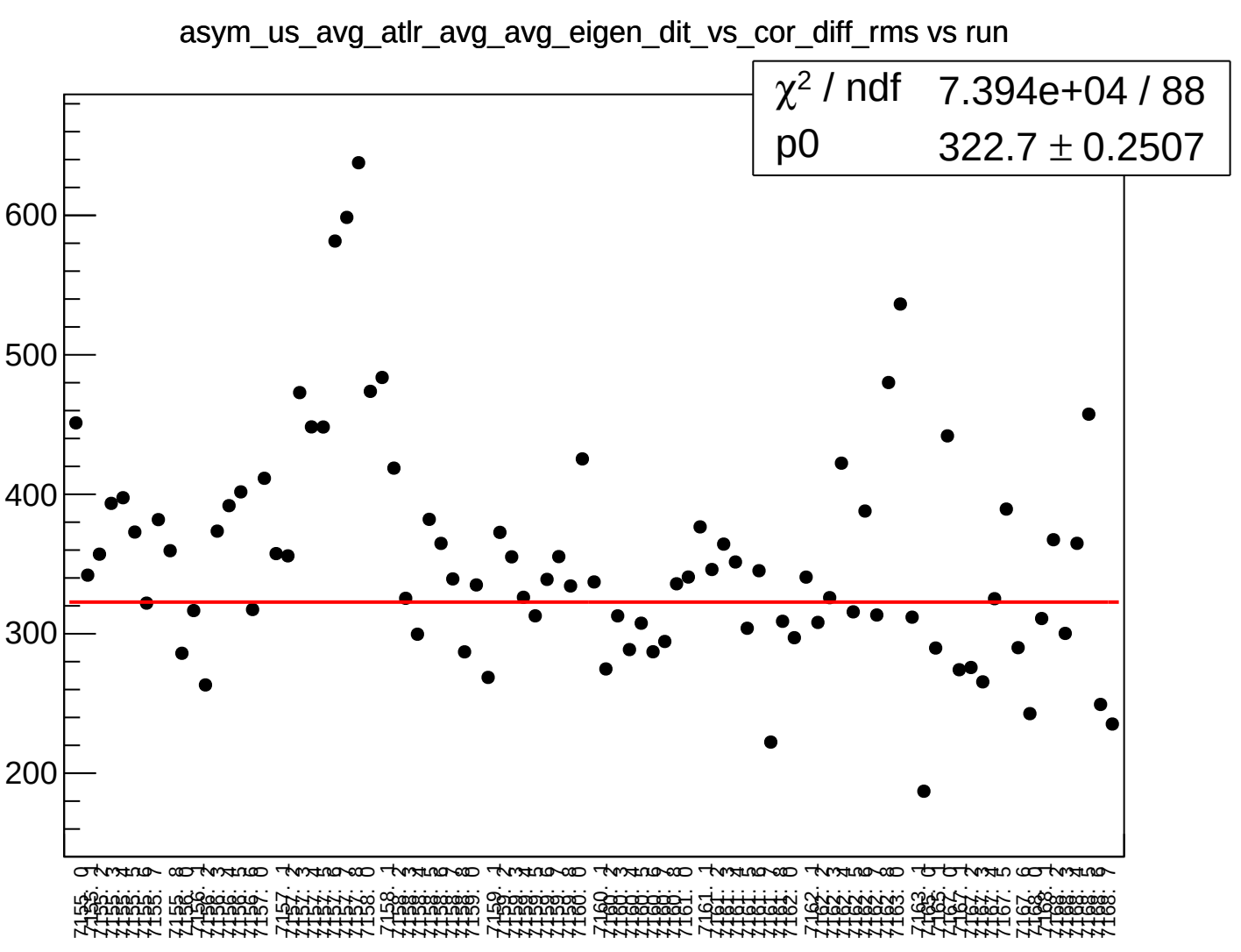

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.45 / 88
p0 0.6479 ± 0.3546
pull
Entries 89
Mean −134.6
Std Dev 0
pull1D
Entries 89
Mean −0.01961
Std Dev 0.8831

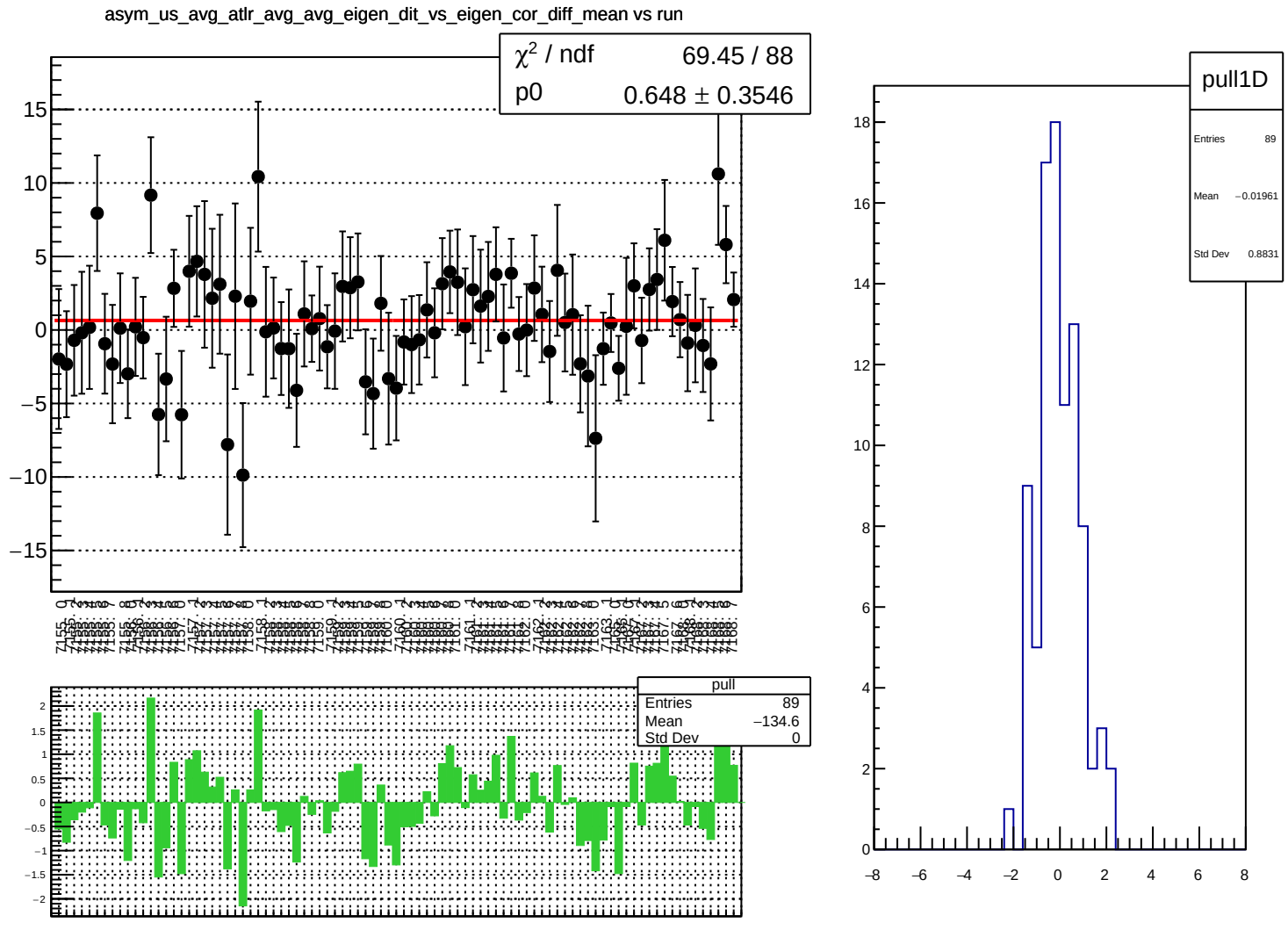

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.393e+04 / 88
p0 322.7 ± 0.2507
600
500
400
300
200

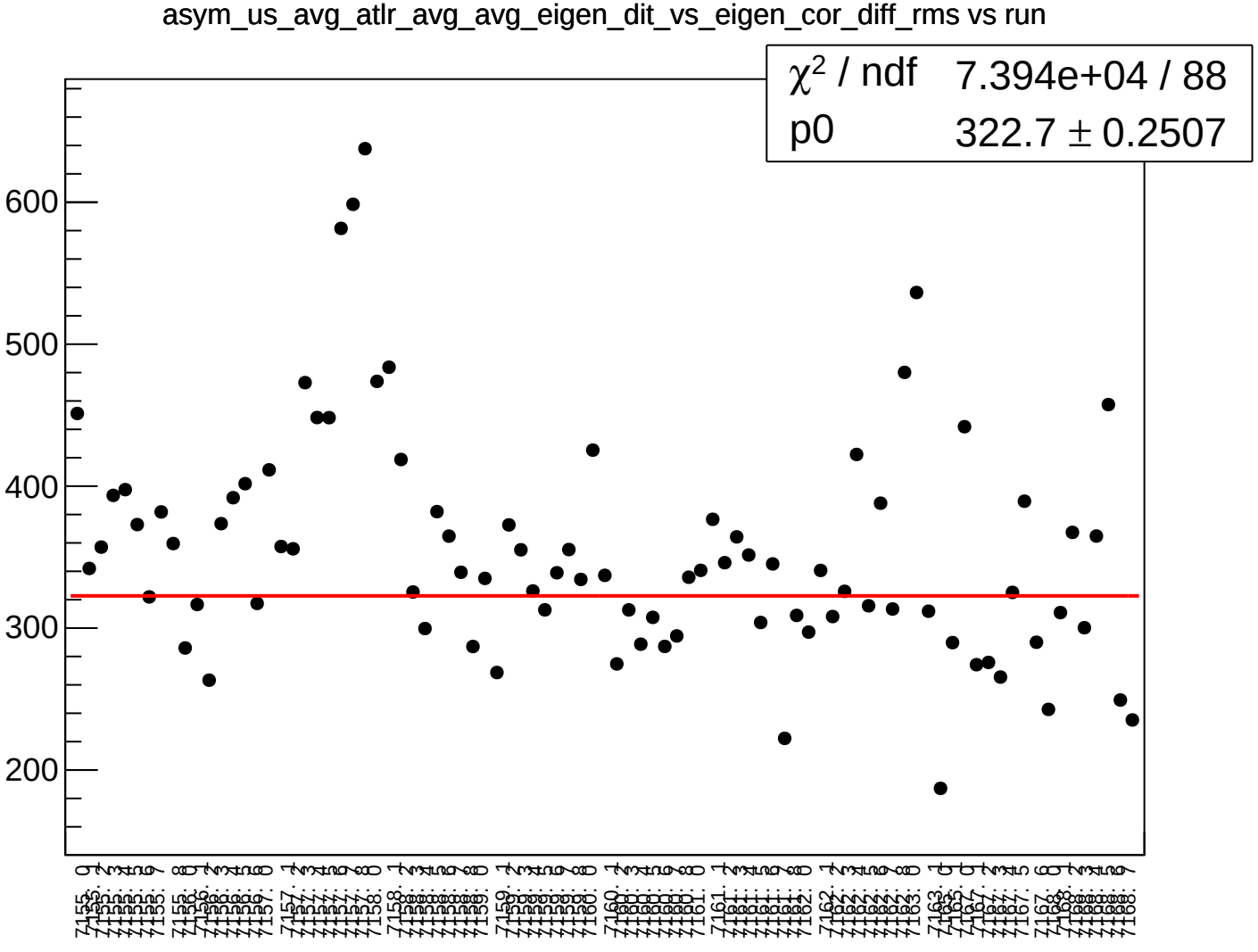

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 76.06 / 88
p0 −6.208e−06 ± 8.305e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 16.53
Std Dev 0
pull1D
Entries 89
Mean 0.04289
Std Dev 0.9235

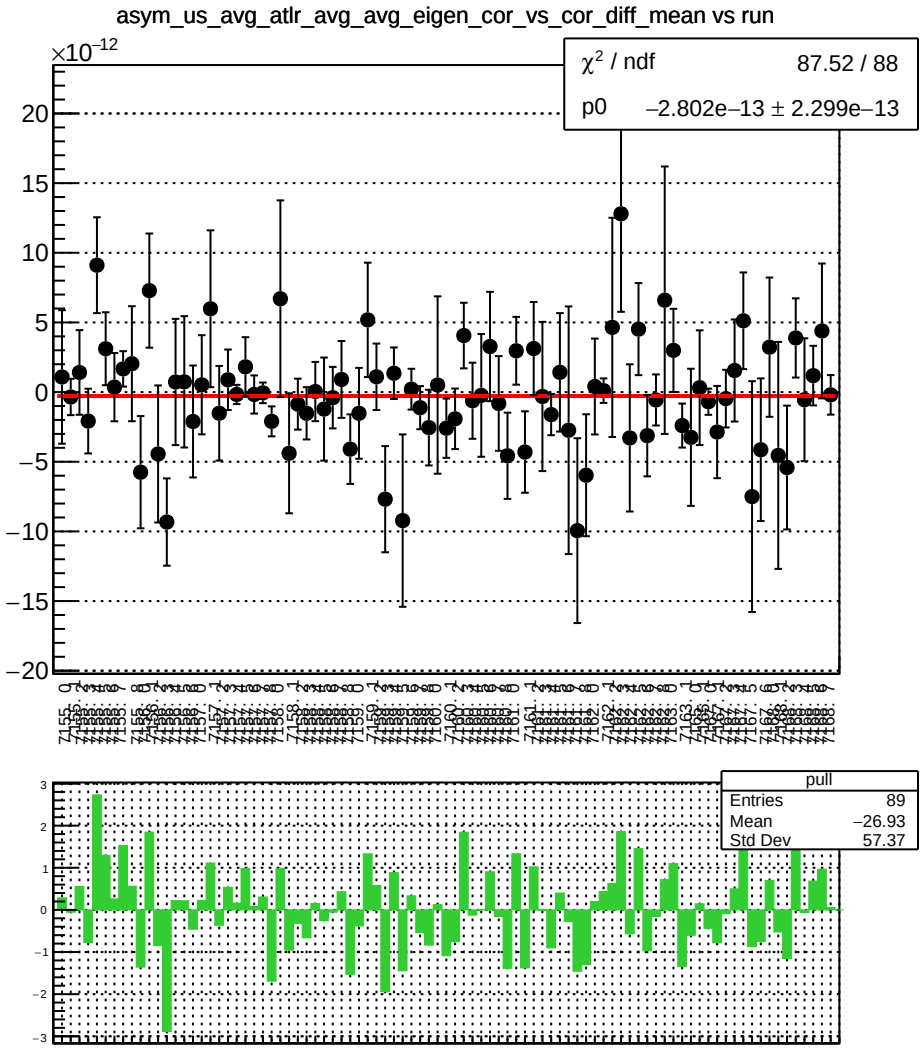

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.156e+05 / 88
p0 0.0053 ± 5.872e−06
0.03
0.025
0.02
0.015
0.01
0.005

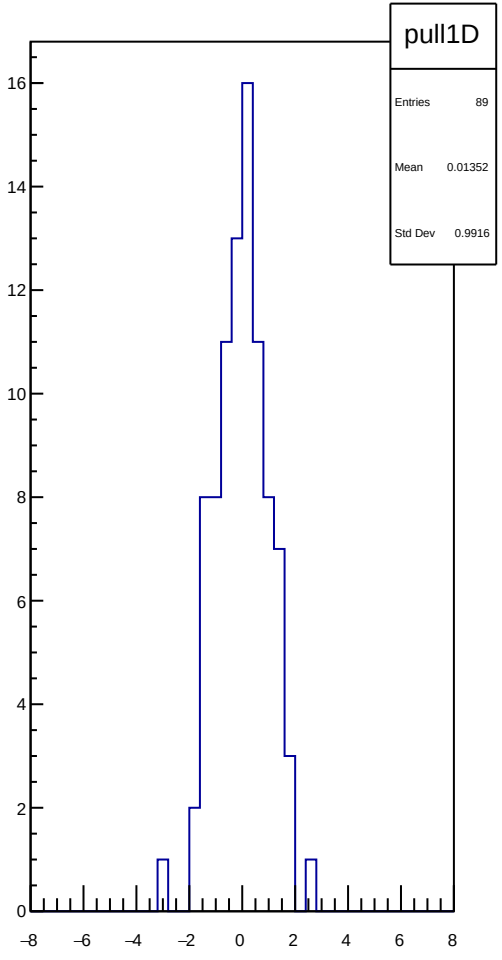

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.45 / 88
p0 0.648 ± 0.3546
pull
Entries 89
Mean −134.6
Std Dev 0
pull1D
Entries 89
Mean −0.01961
Std Dev 0.8831

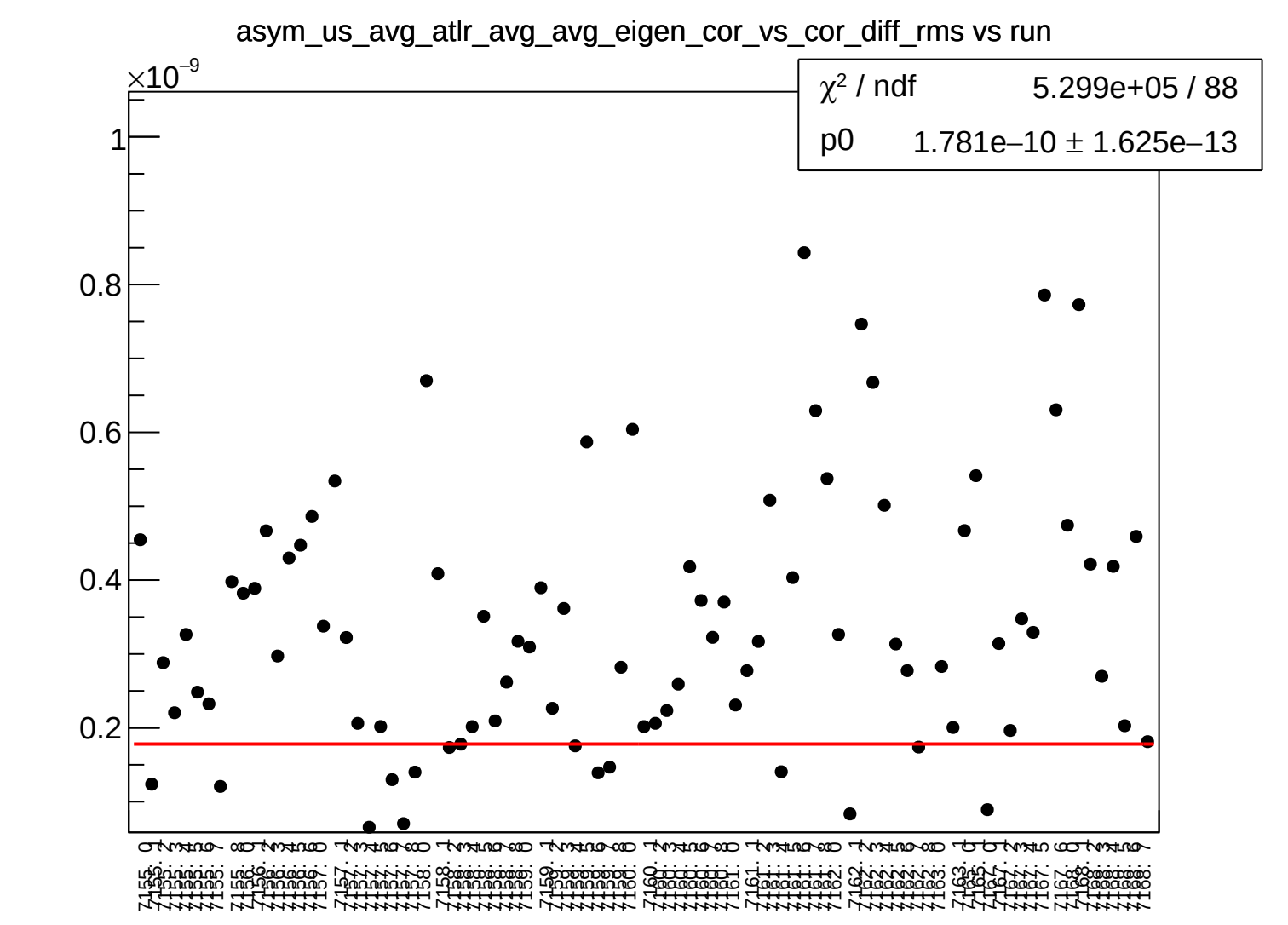

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 88
p0 322.7 ± 0.2507
600
500
400
300
200

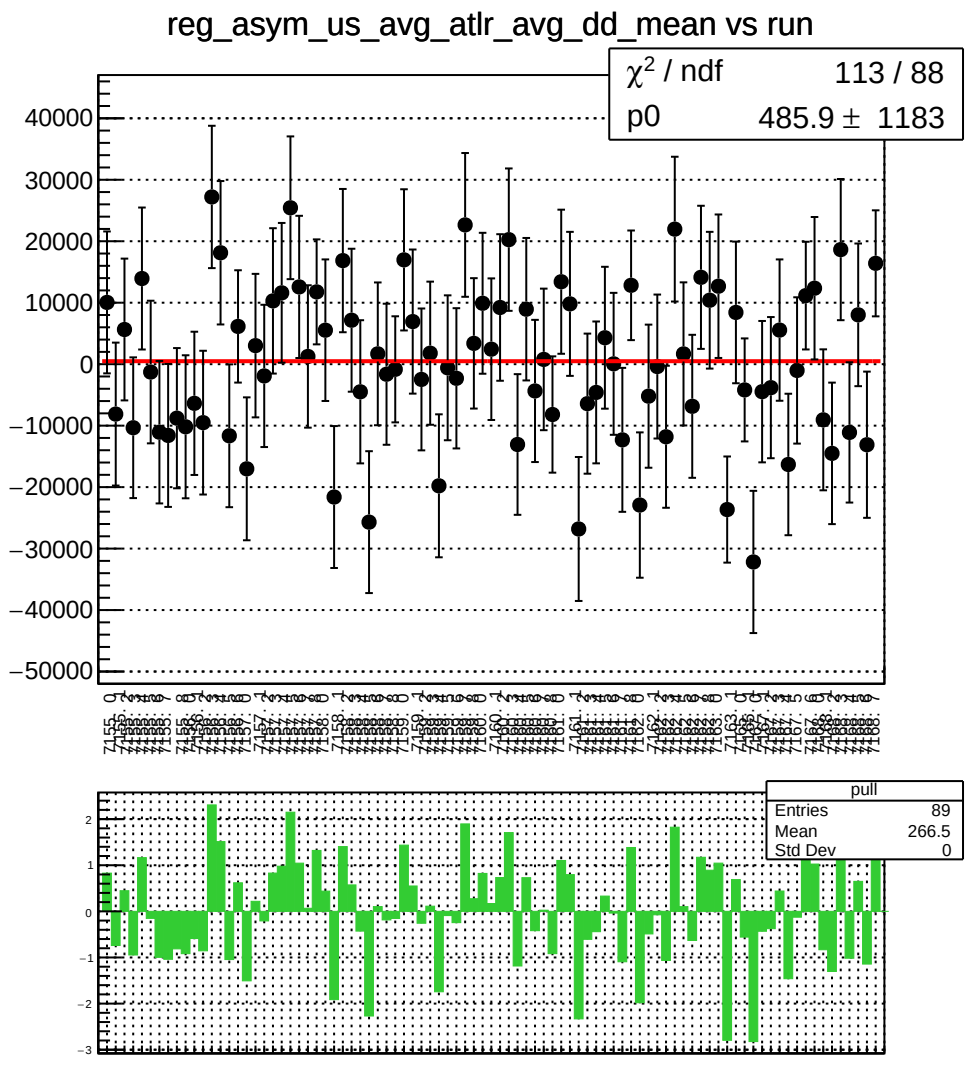

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.45 / 88
p0 0.648 ± 0.3546
pull
Entries 89
Mean −134.6
Std Dev 0
pull1D
Entries 89
Mean −0.01961
Std Dev 0.8831

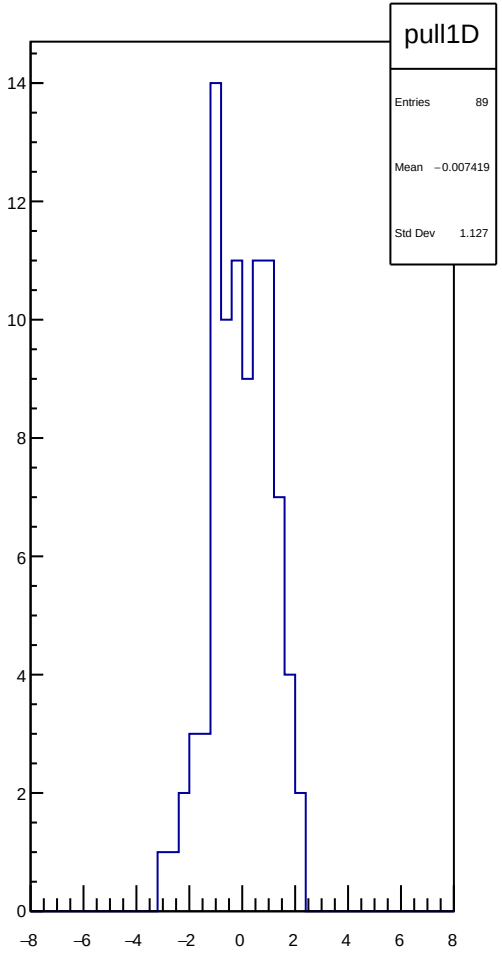

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.394e+04 / 88
p0 322.7 ± 0.2507
600
500
400
300
200

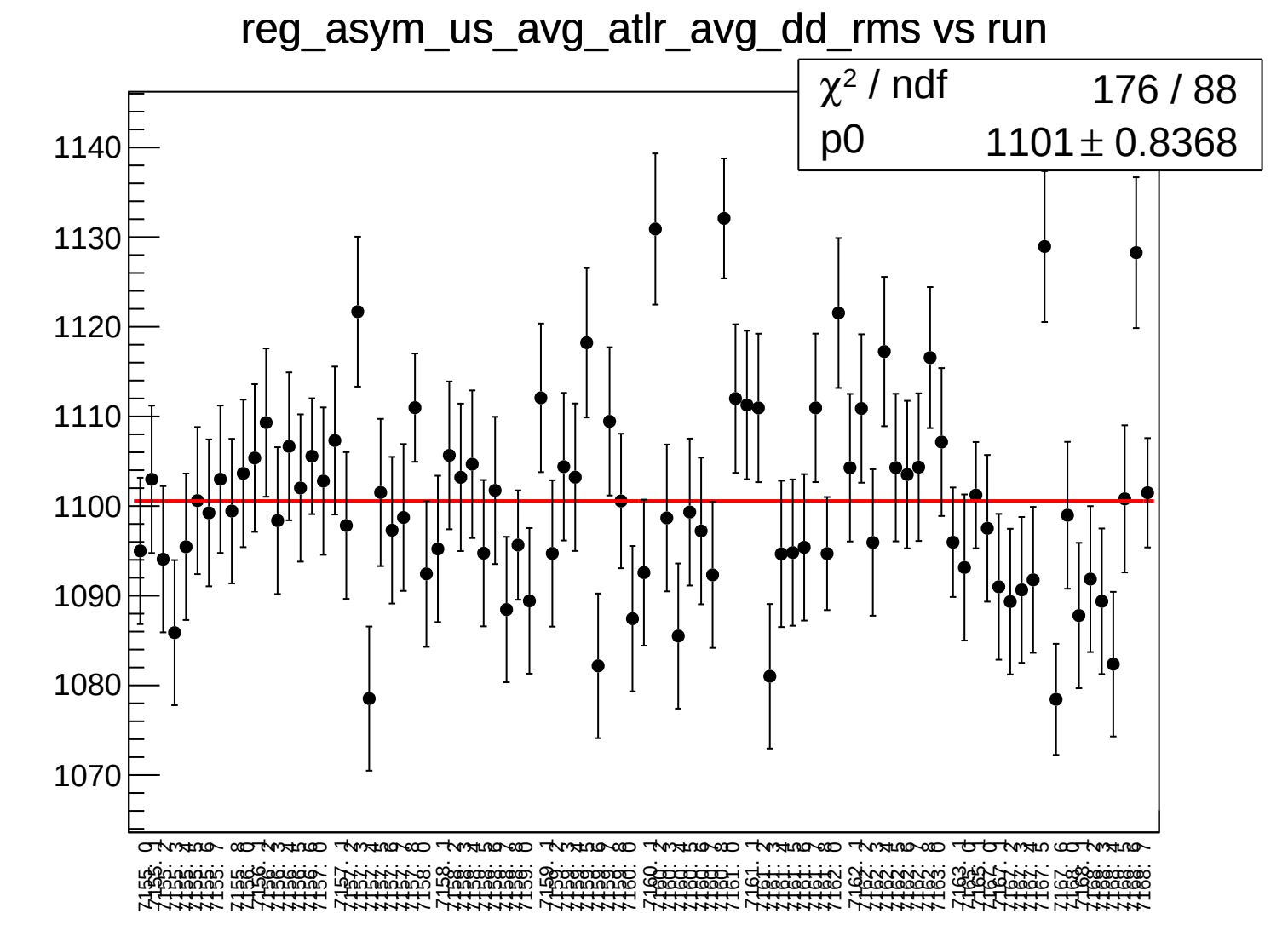

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.52 / 88
p0 −2.802e−13 ± 2.299e−13
pull
Entries 89
Mean −26.93
Std Dev 57.37

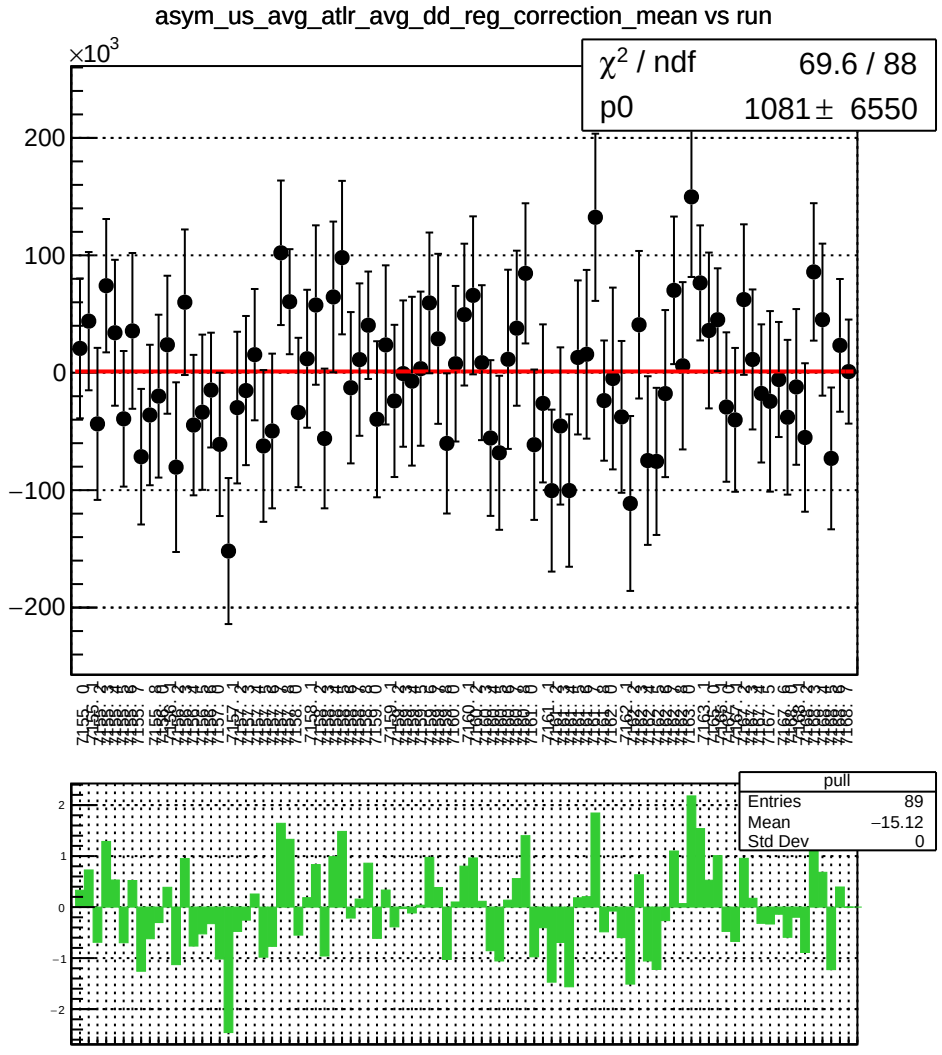

pull1D
Entries 89
Mean 0.01352
Std Dev 0.9916

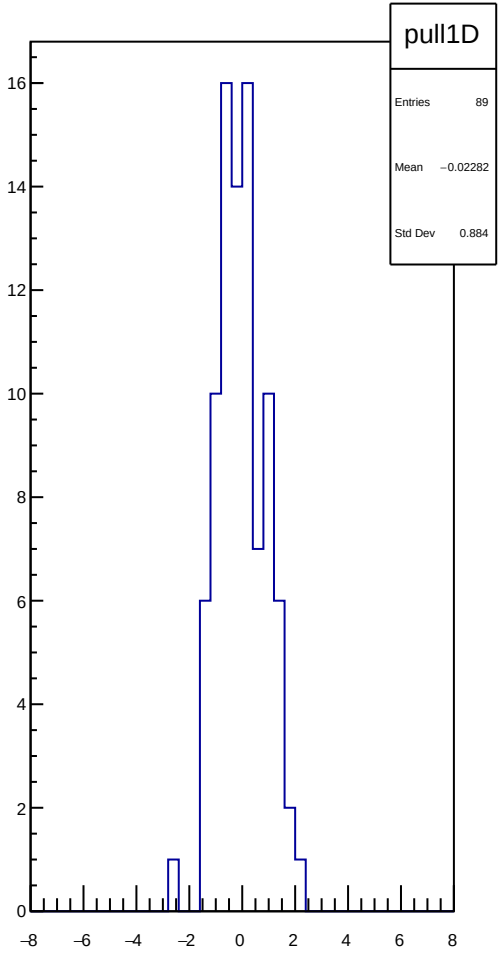

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.299e+05 / 88
p0 1.781e−10 ± 1.625e−13
1
0.8
0.6
0.4
0.2

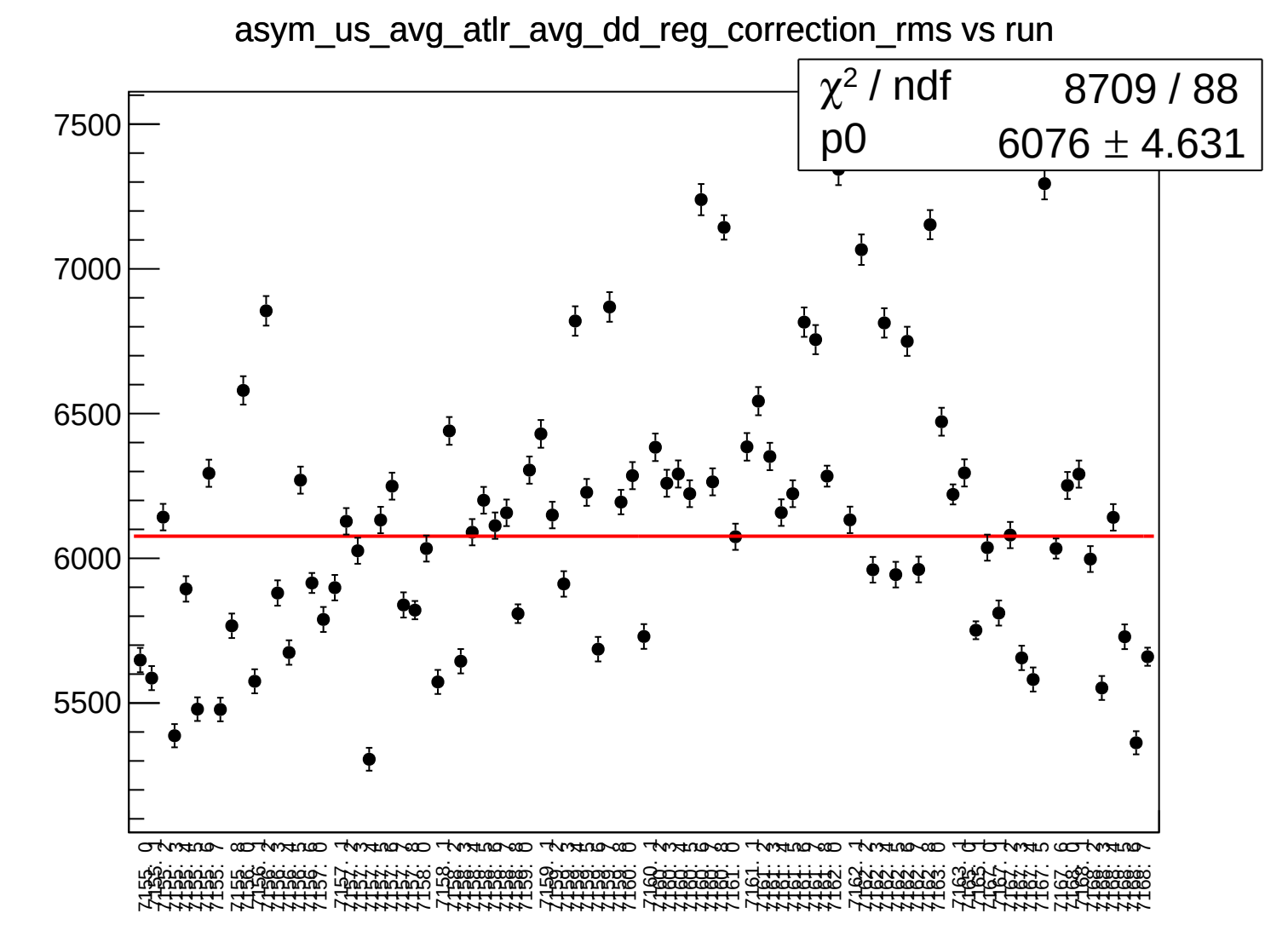

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 113 / 88
p0 485.9 ± 1183
pull
Entries 89
Mean 266.5
Std Dev 0

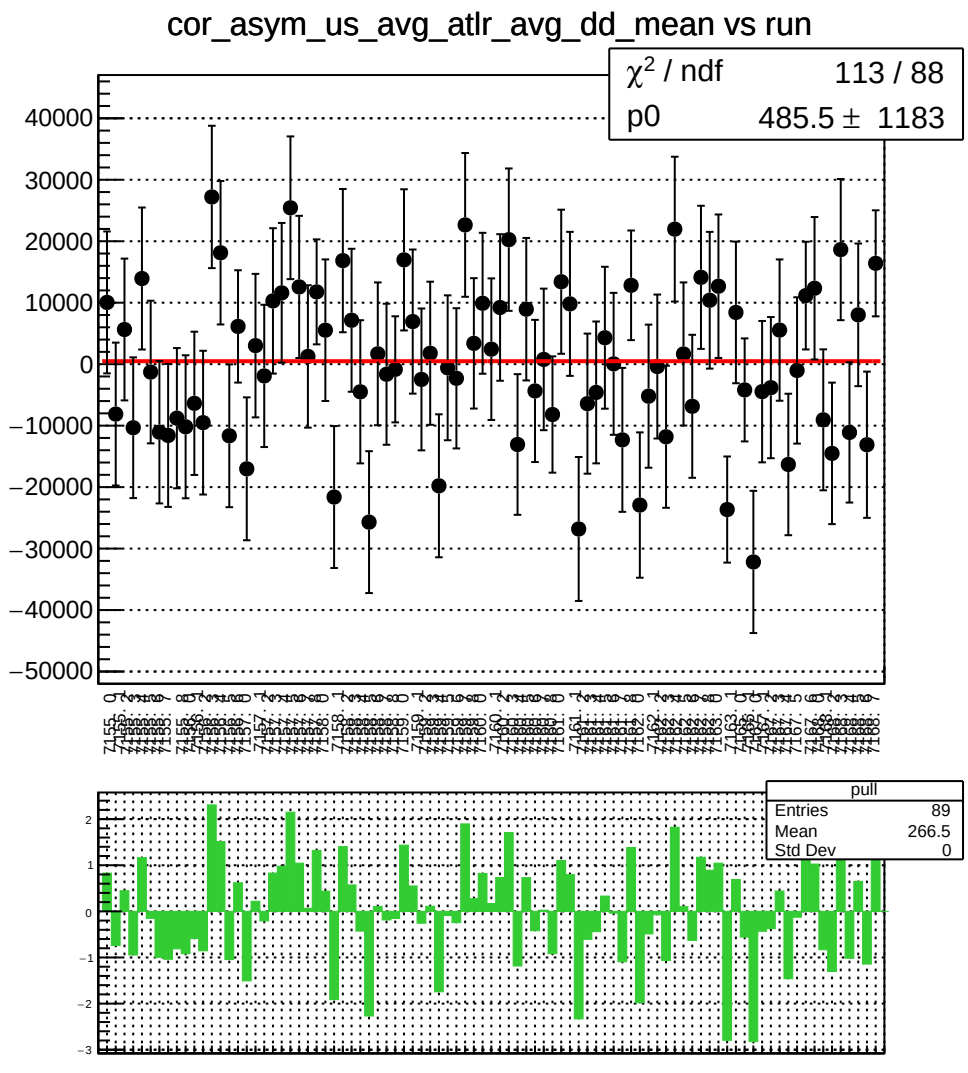

pull1D
Entries 89
Mean −0.007419
Std Dev 1.127

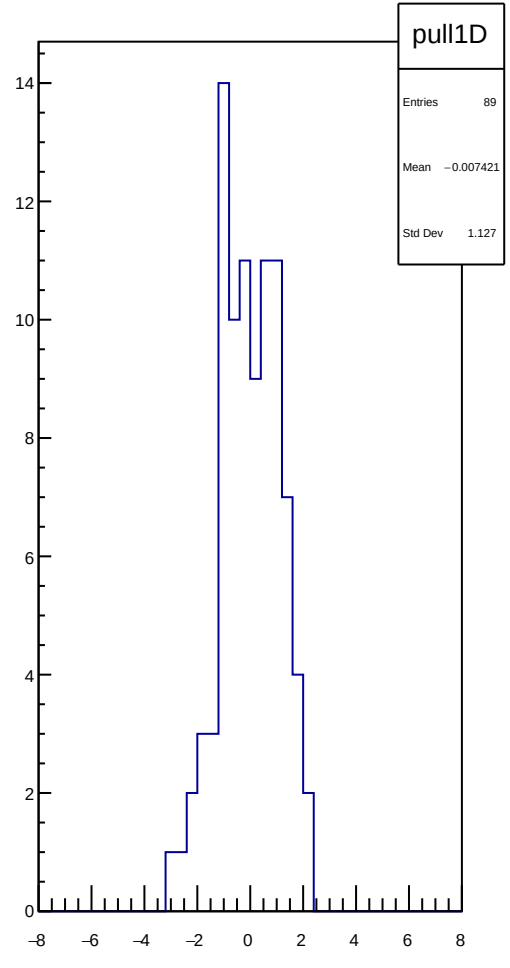

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 176 / 88
p0 1101 ± 0.8368
1140
1130
1120
1110
1100
1090
1080
1070

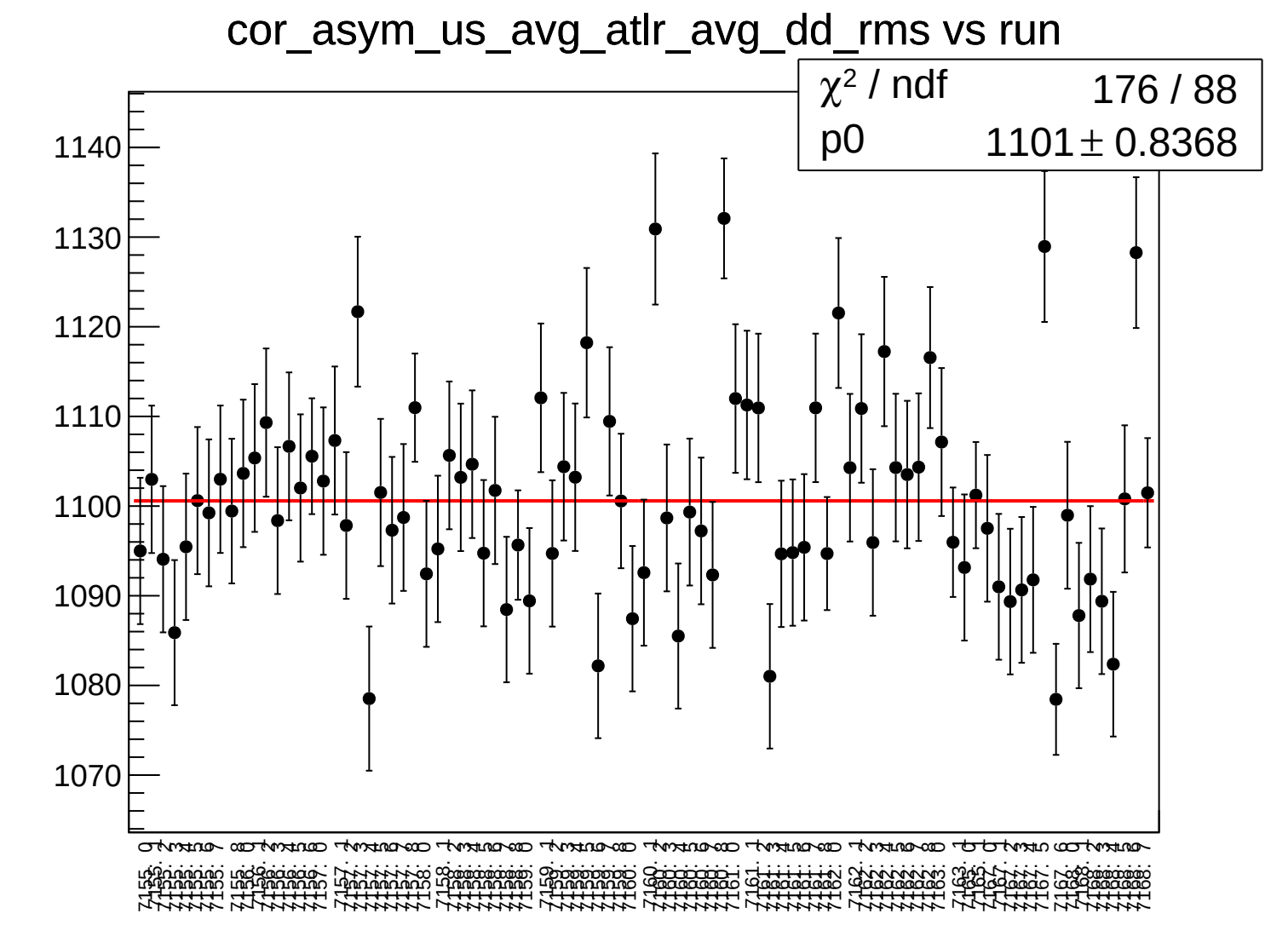

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 69.6 / 88
p0 1081 ± 6550
200
100
0
−100
−200
pull
Entries 89
Mean −15.12
Std Dev 0
2
1
0
−1
−2

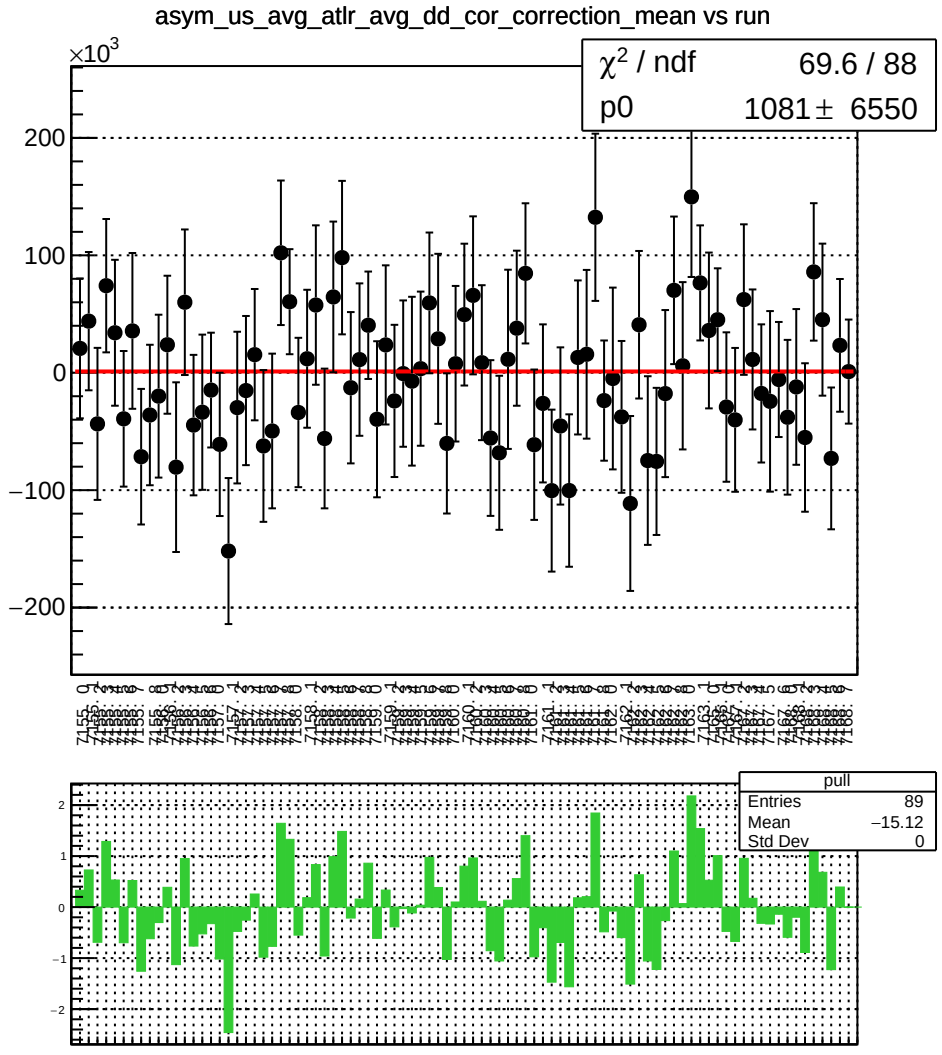

pull1D
Entries 89
Mean −0.02282
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

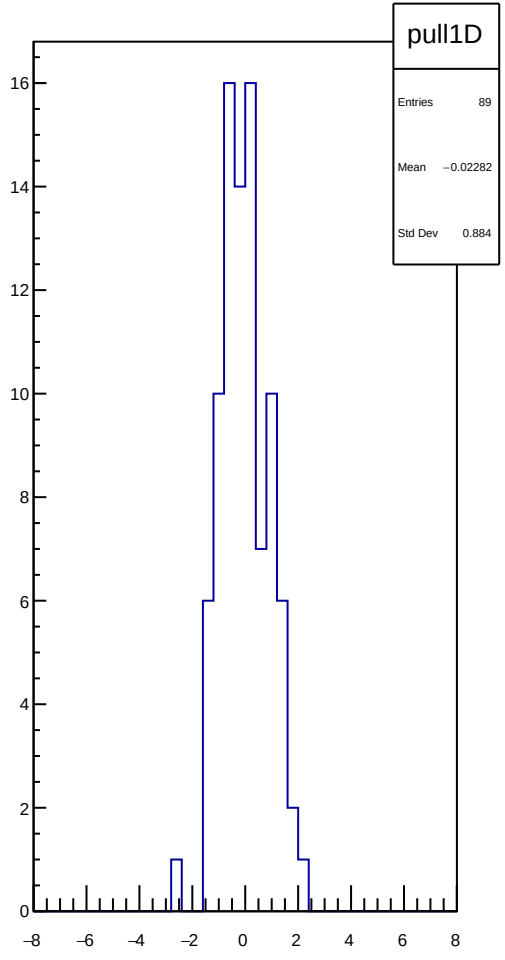

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 8709 / 88
p0 6076 ± 4.631
7500
7000
6500
6000
5500

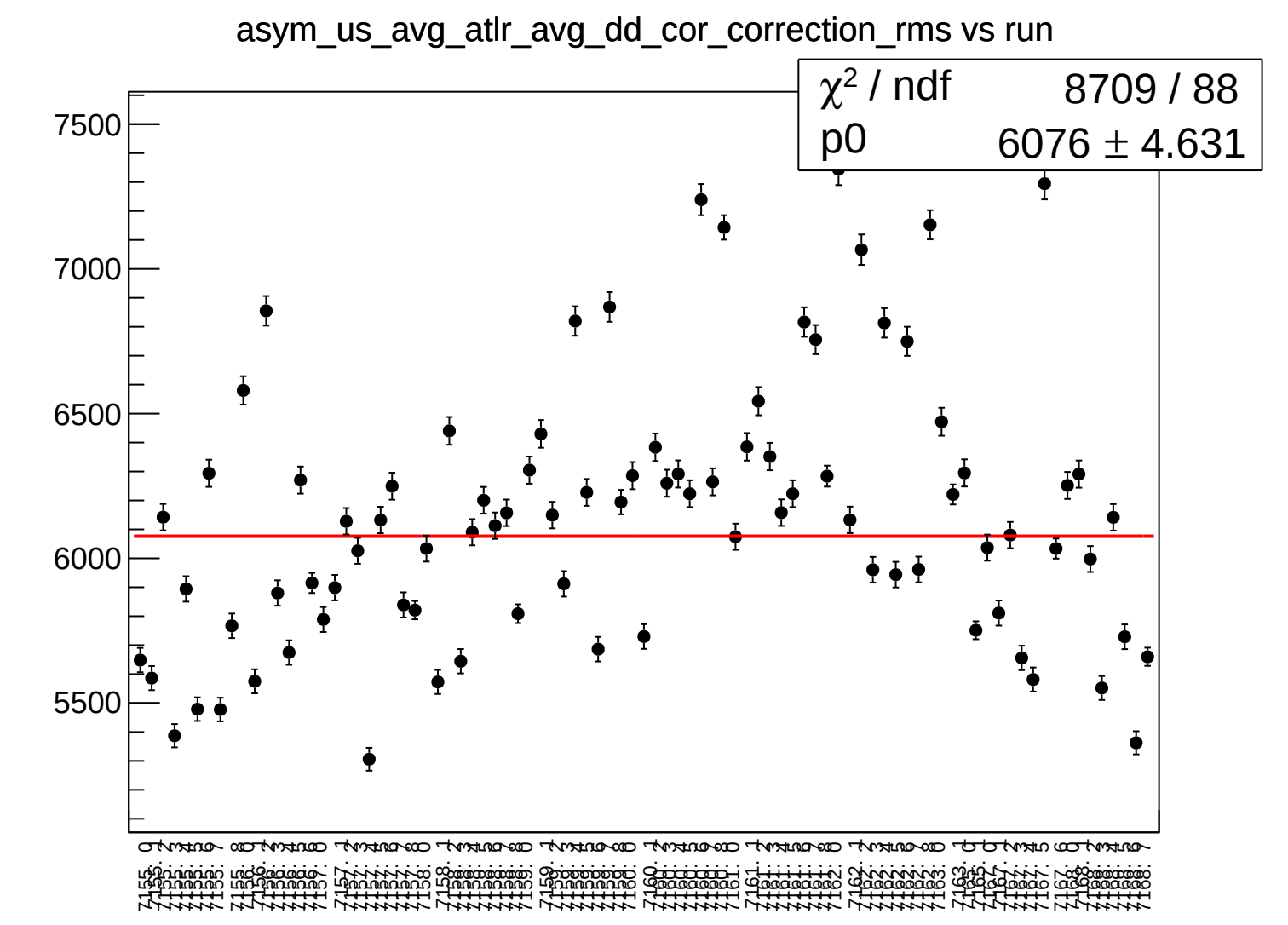

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 113 / 88
p0 485.5 ± 1183
pull
Entries 89
Mean 266.5
Std Dev 0

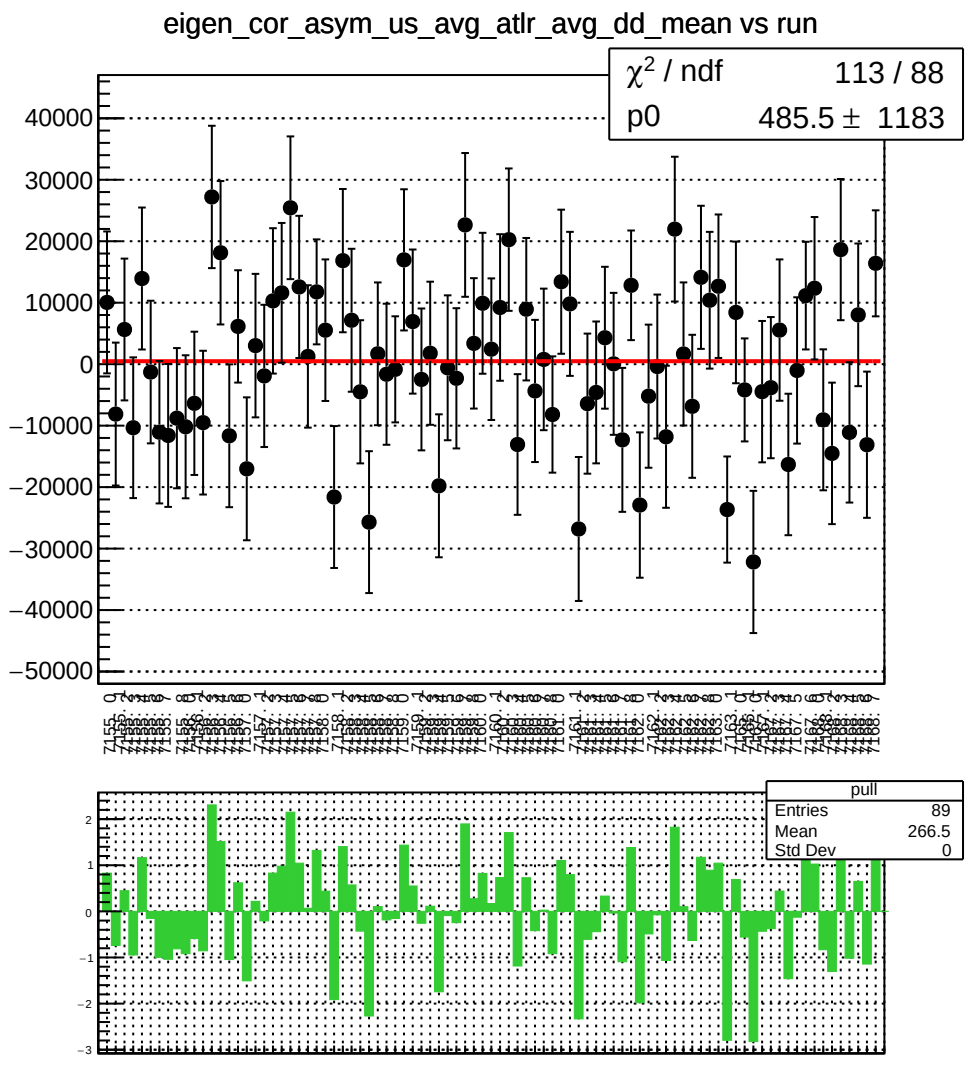

pull1D
Entries 89
Mean −0.007421
Std Dev 1.127

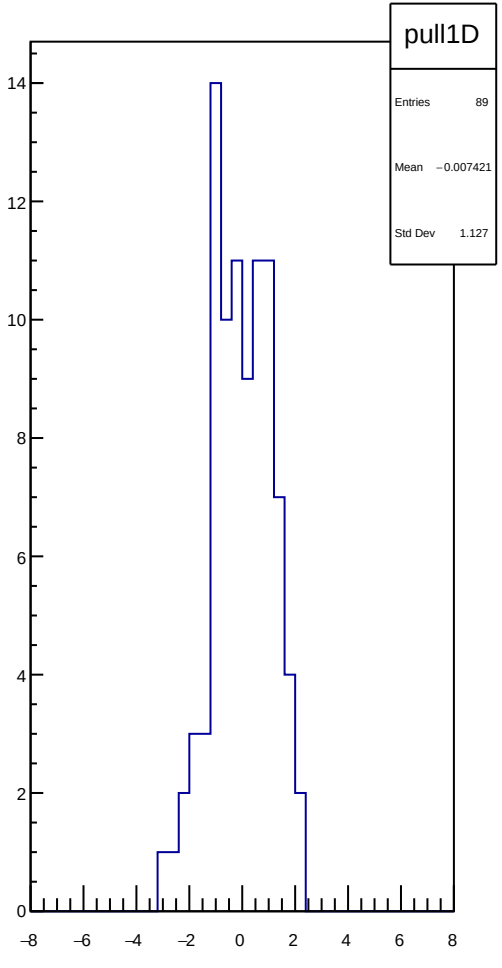

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 176 / 88
p0 1101 ± 0.8368
1140
1130
1120
1110
1100
1090
1080
1070

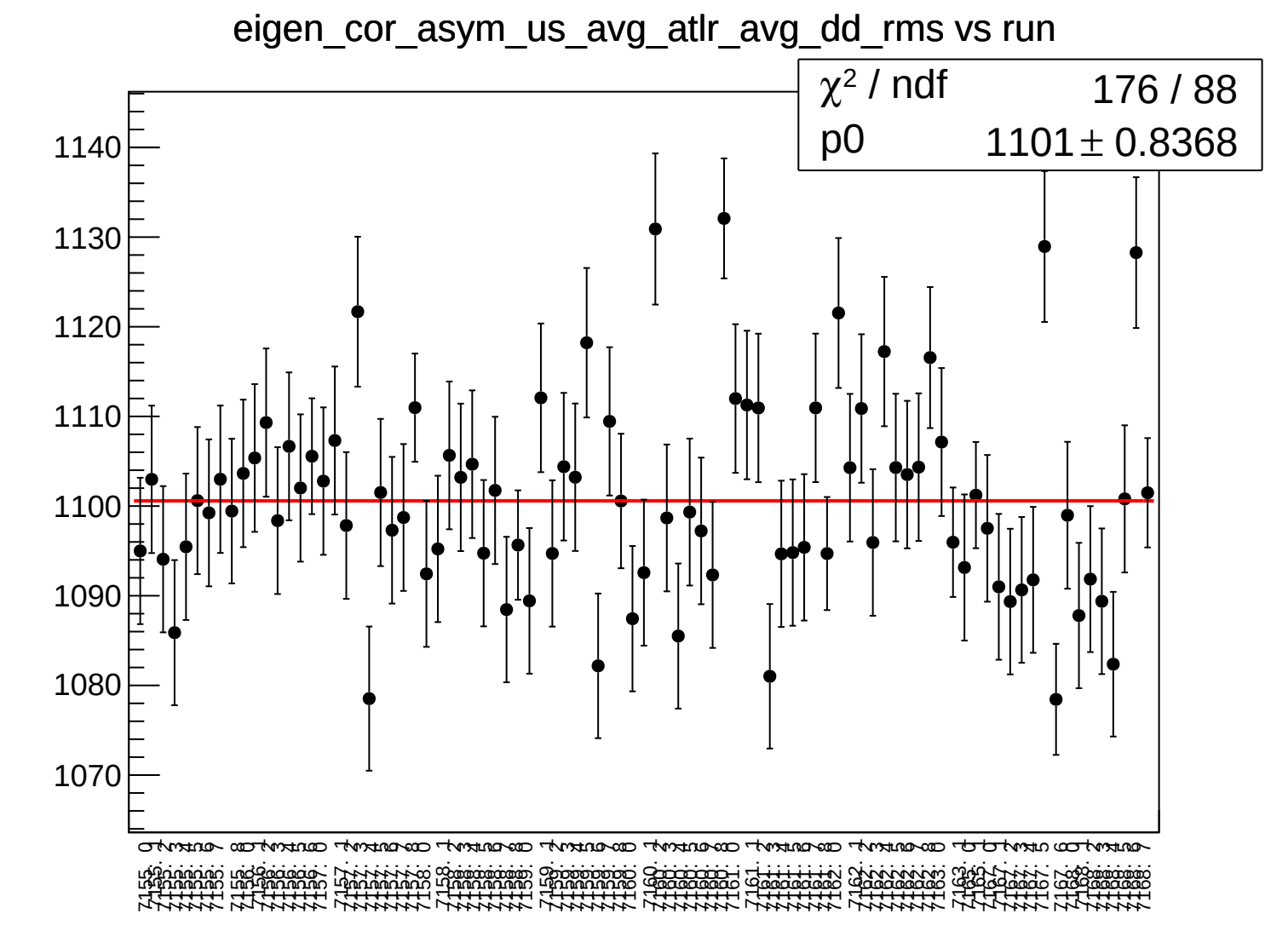

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 69.6 / 88
p0 1081 ± 6550
200
100
0
−100
−200
pull
Entries 89
Mean −15.12
Std Dev 0
2
1
0
−1
−2

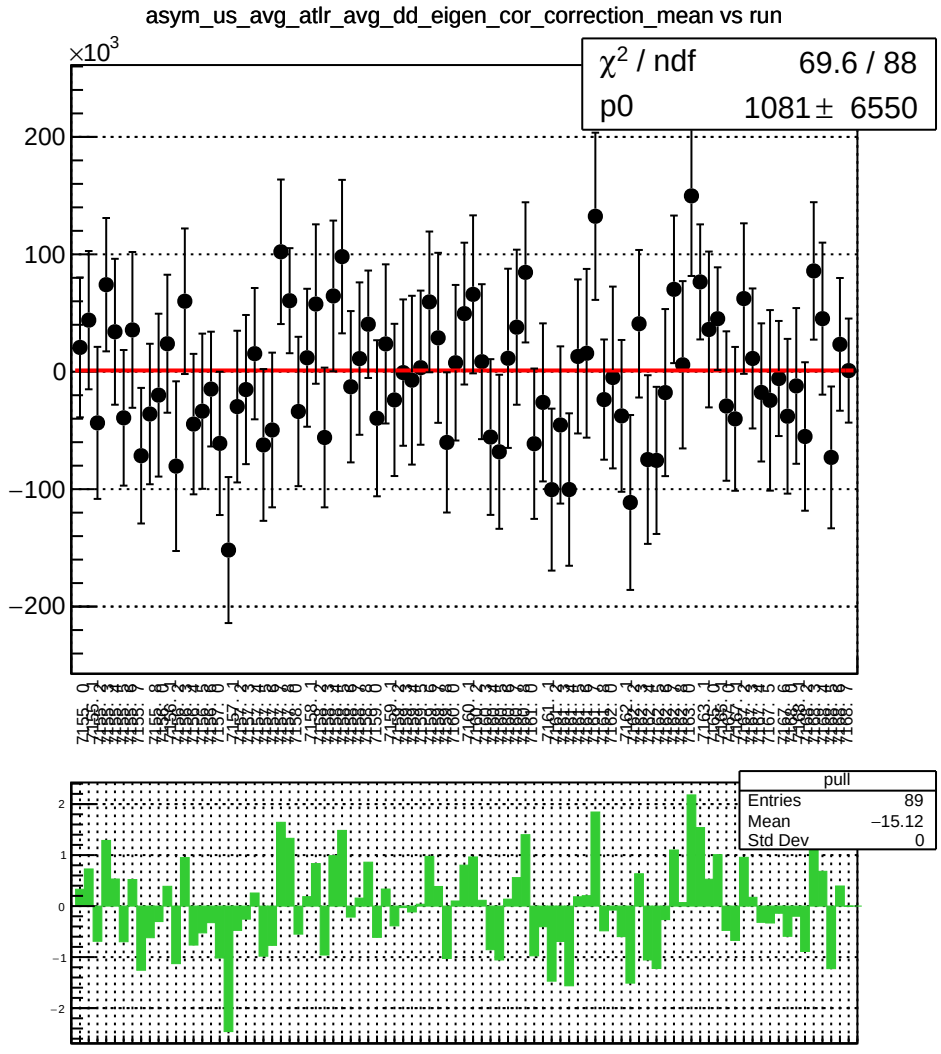

pull1D
Entries 89
Mean −0.02282
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

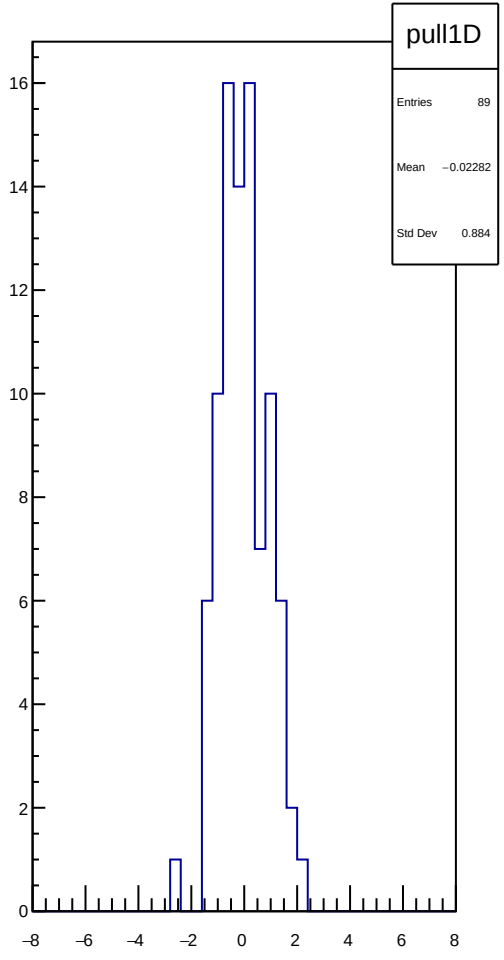

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 8709 / 88
p0 6076 ± 4.631
7500
7000
6500
6000
5500

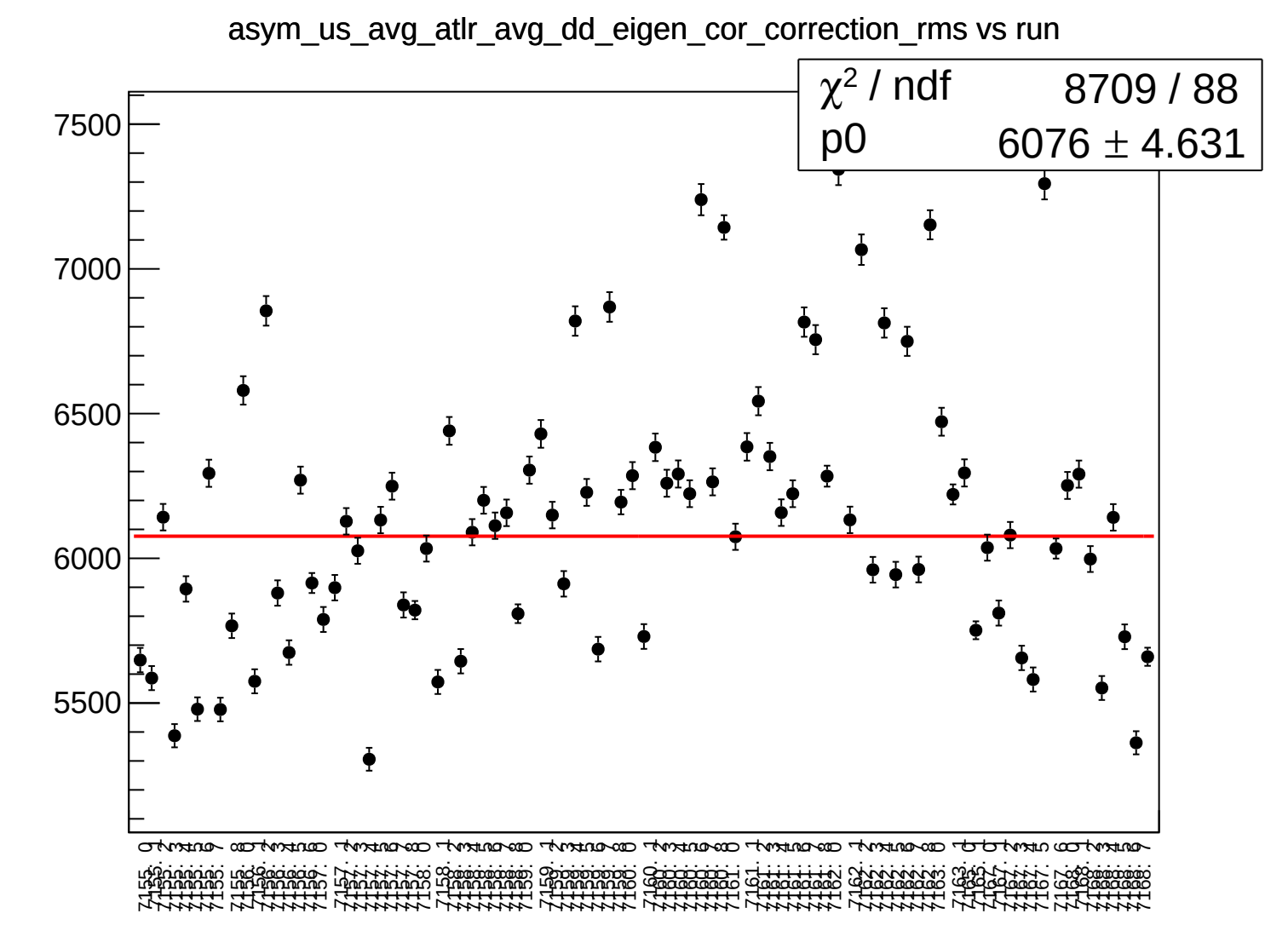

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 113 / 88
p0 485.5 ± 1183
pull
Entries 89
Mean 266.5
Std Dev 0

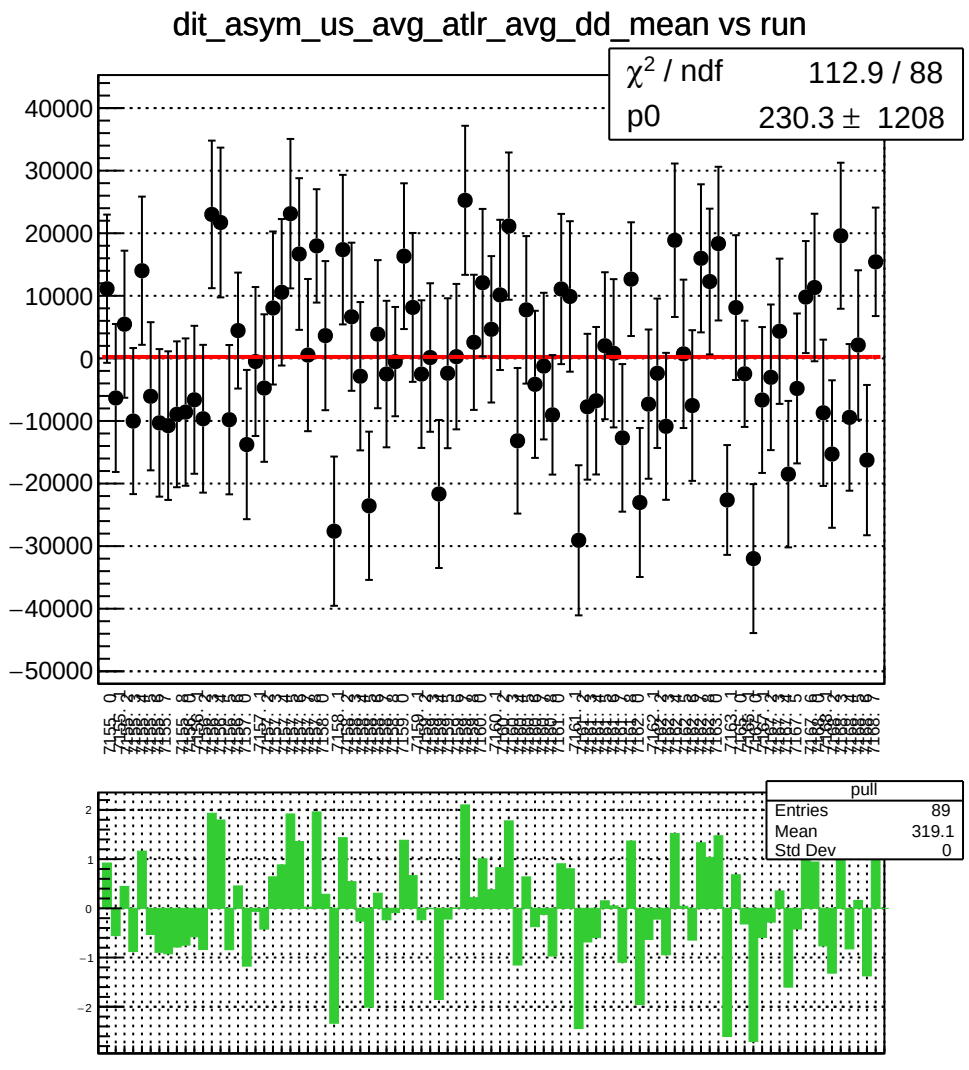

pull1D
Entries 89
Mean −0.007421
Std Dev 1.127

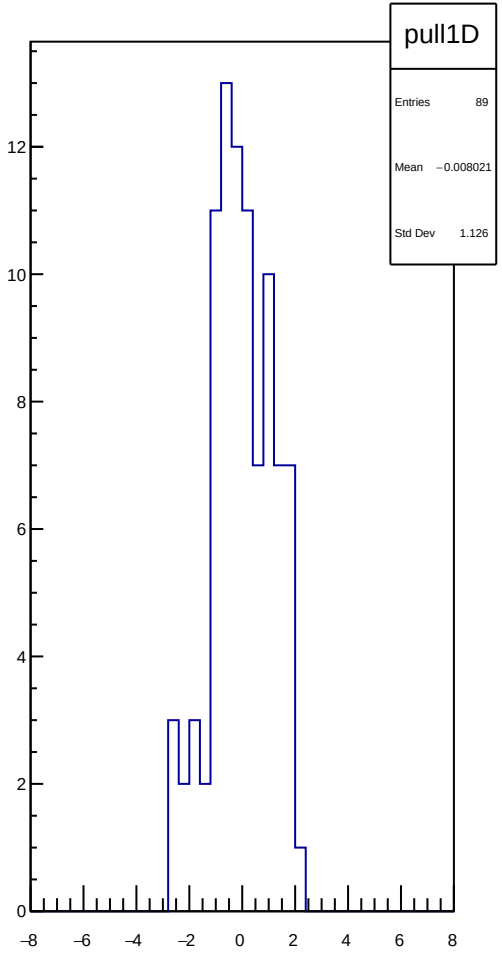

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 176 / 88
p0 1101 ± 0.8368
1140
1130
1120
1110
1100
1090
1080
1070

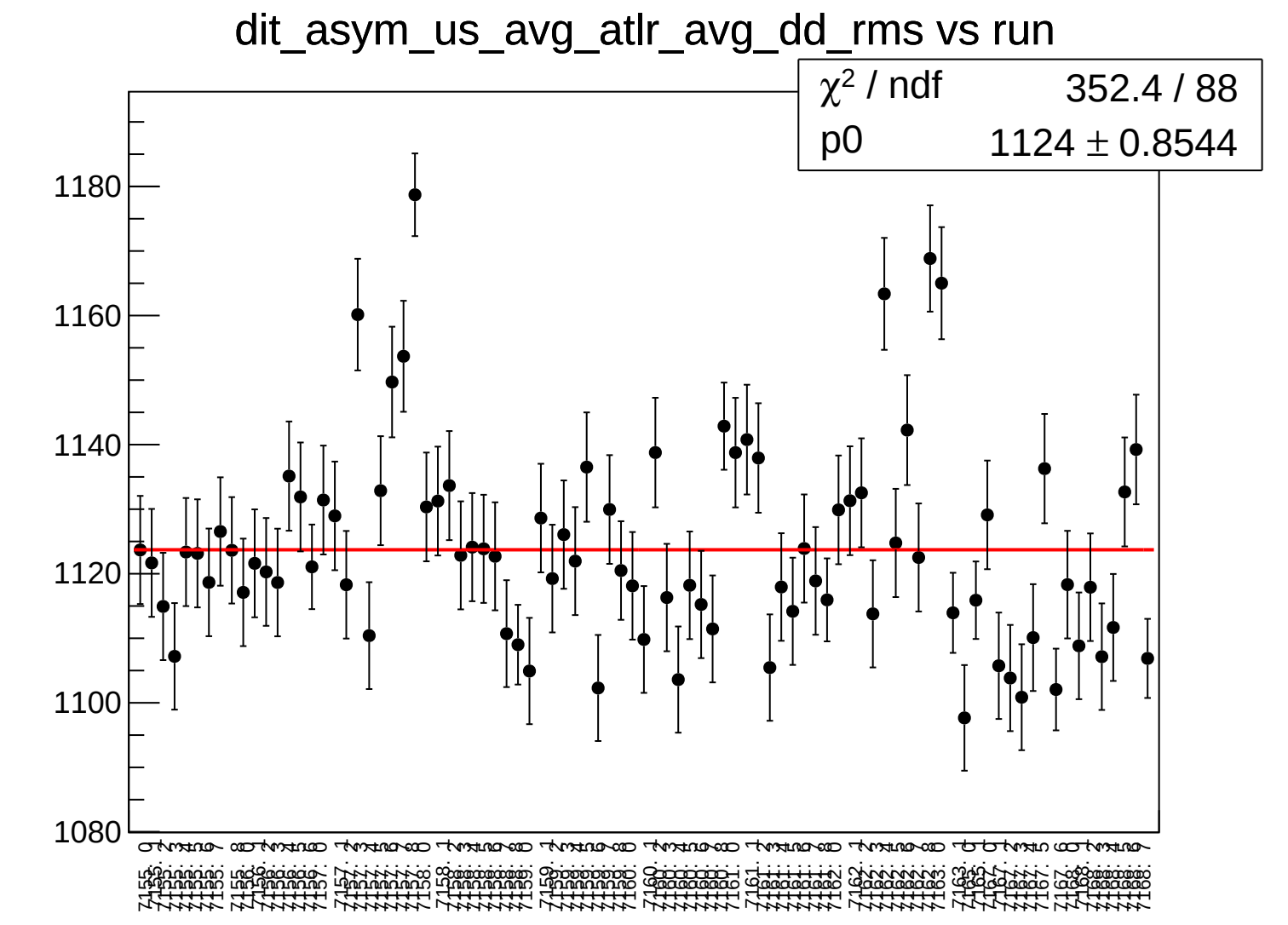

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.6 / 88
p0 1081 ± 6550
200
100
0
−100
−200
pull
Entries 89
Mean −15.12
Std Dev 0
2
1
0
−1
−2

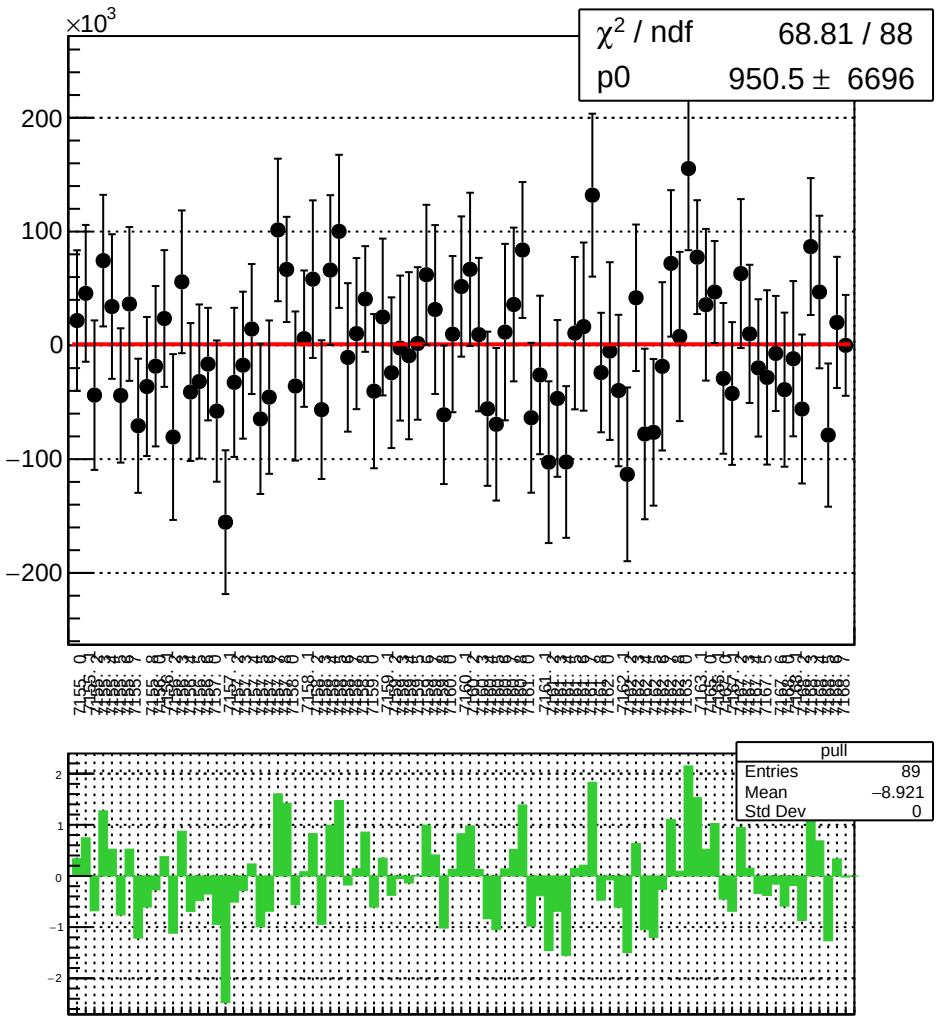

pull1D
Entries 89
Mean −0.02282
Std Dev 0.884
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

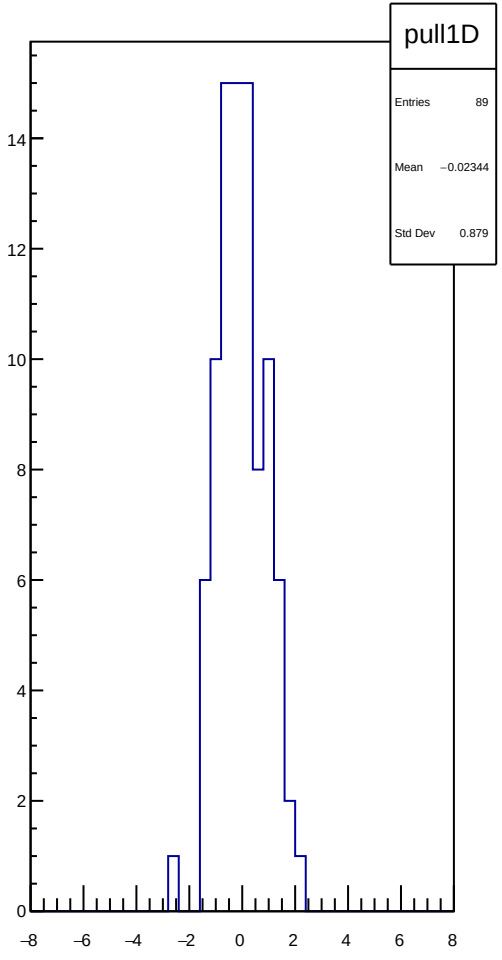

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 8709 / 88
p0 6076 ± 4.631
7500
7000
6500
6000
5500

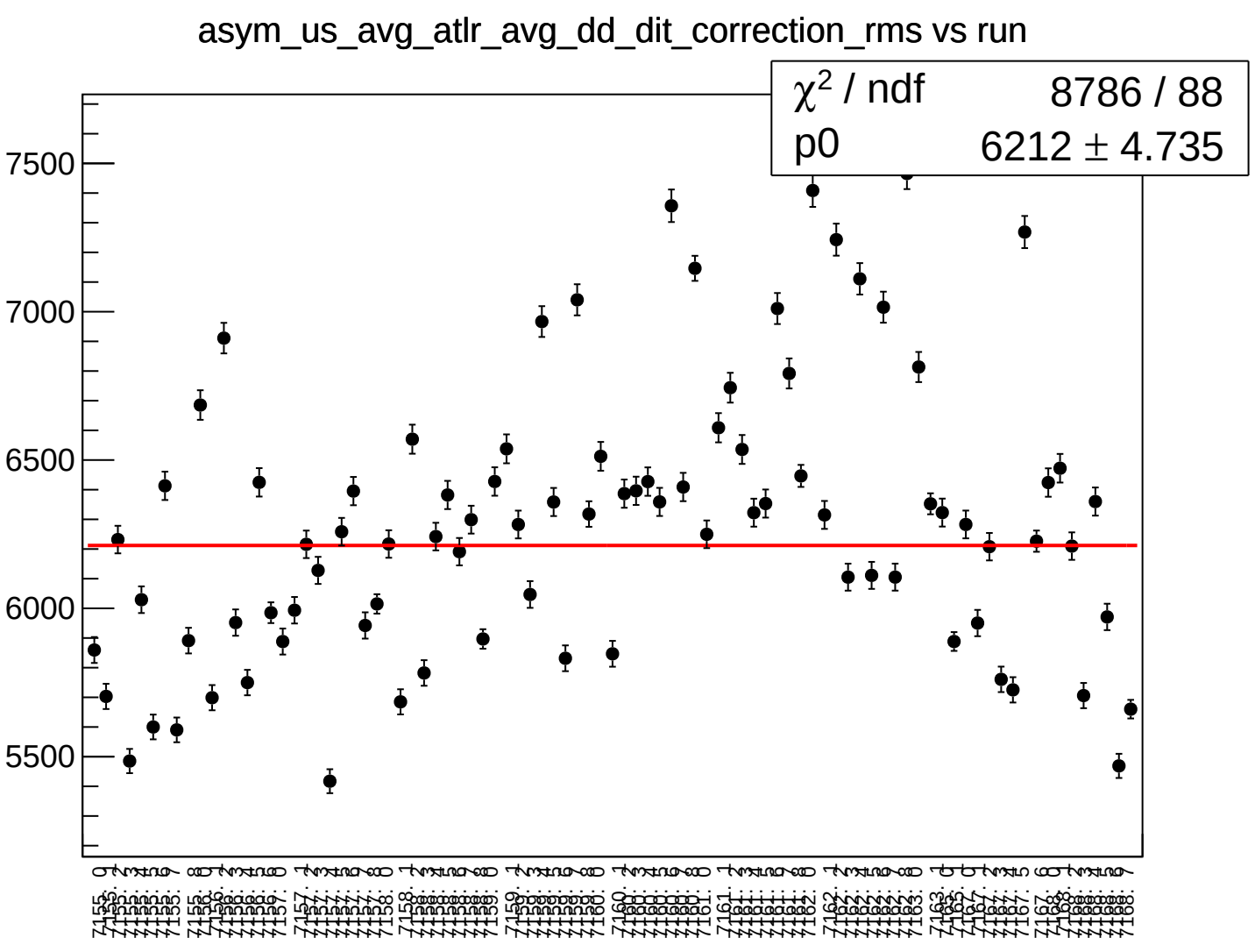

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 112.9 / 88
p0 230.3 ± 1208
pull
Entries 89
Mean 319.1
Std Dev 0

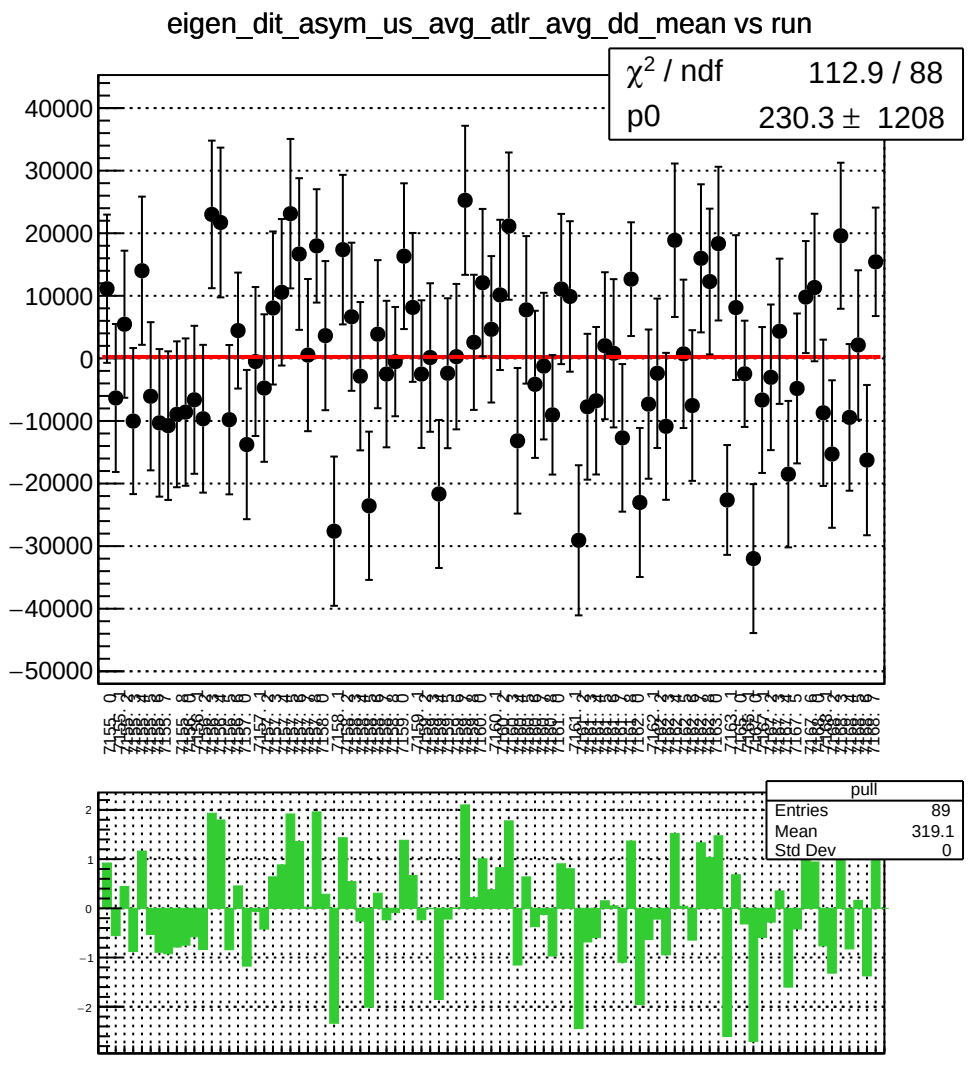

pull1D
Entries 89
Mean −0.008021
Std Dev 1.126

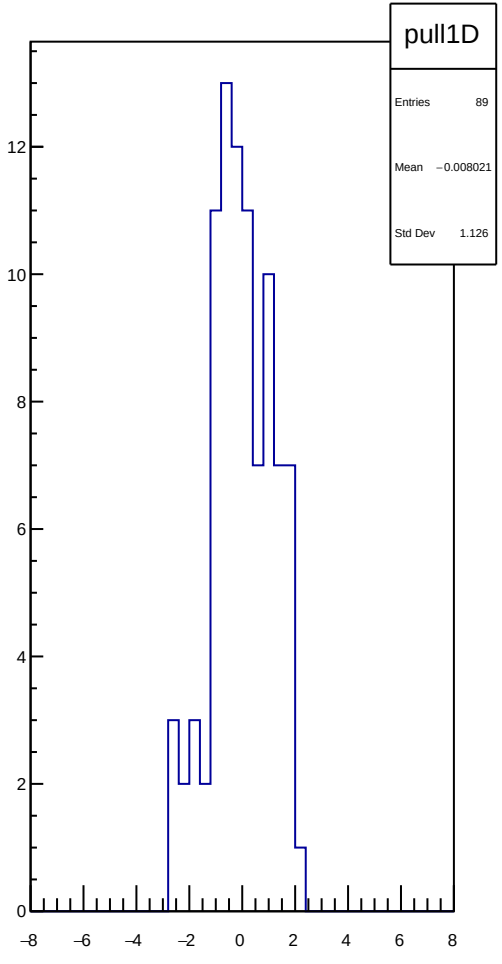

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 352.4 / 88
p0 1124 ± 0.8544
1180
1160
1140
1120
1100
1080

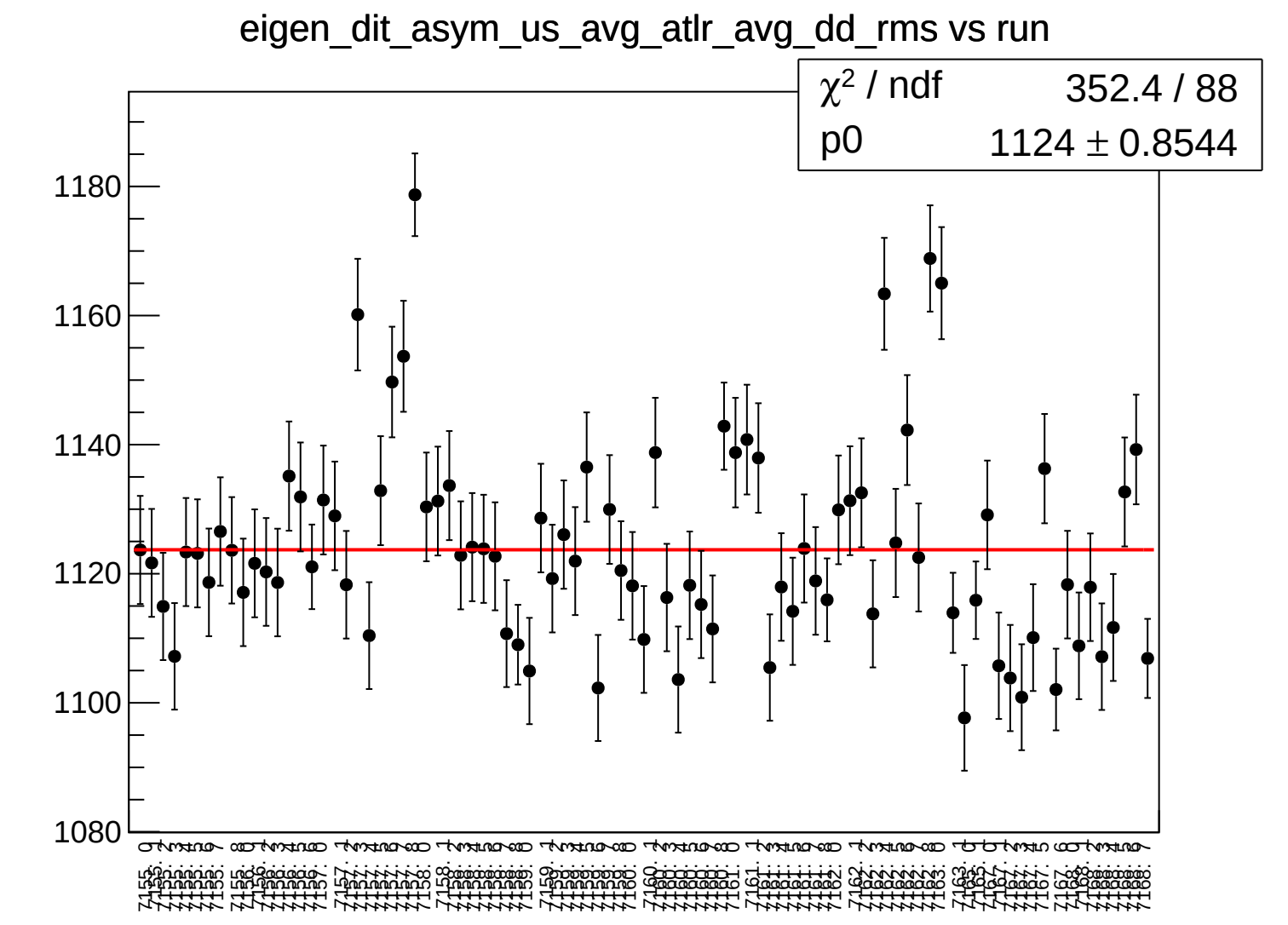

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 68.81 / 88
p0 950.5 ± 6696
200
100
0
−100
−200
pull
Entries 89
Mean −8.921
Std Dev 0
2
1
0
−1
−2

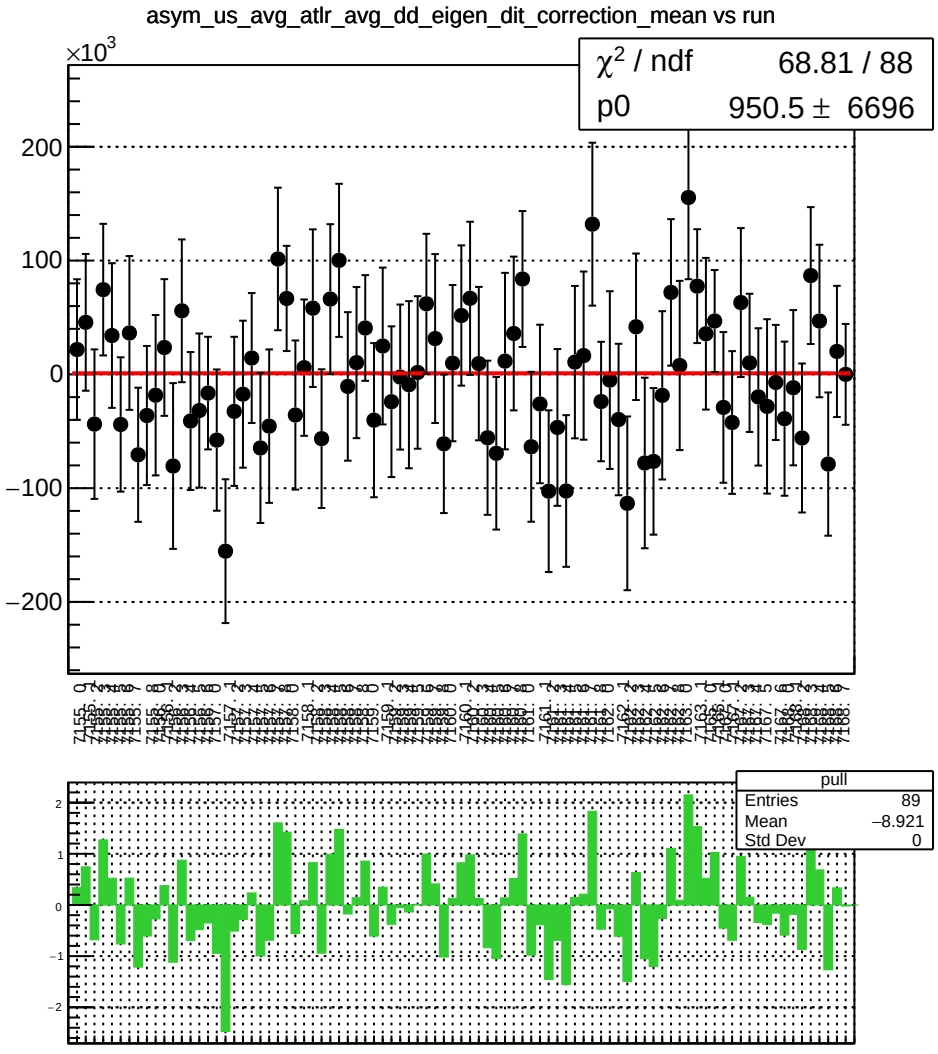

pull1D
Entries 89
Mean −0.02344
Std Dev 0.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

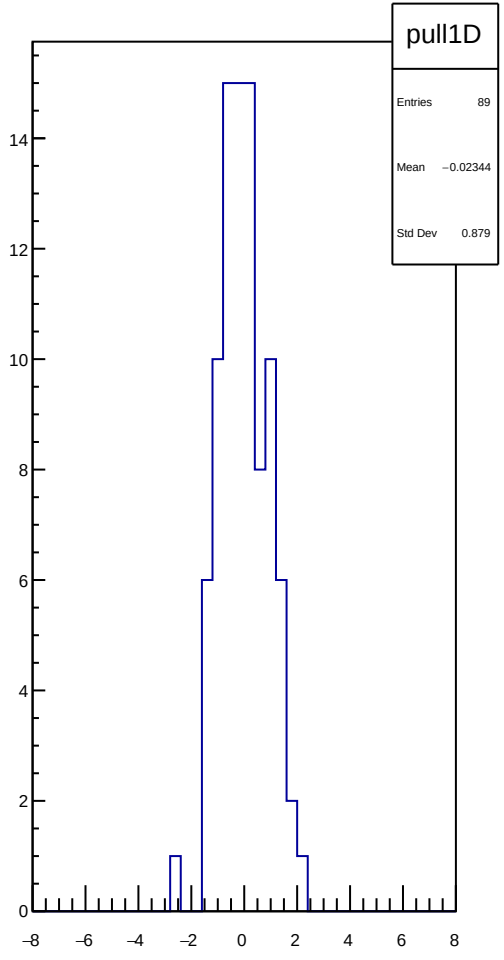

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 8786 / 88
p0 6212 ± 4.735
7500
7000
6500
6000
5500

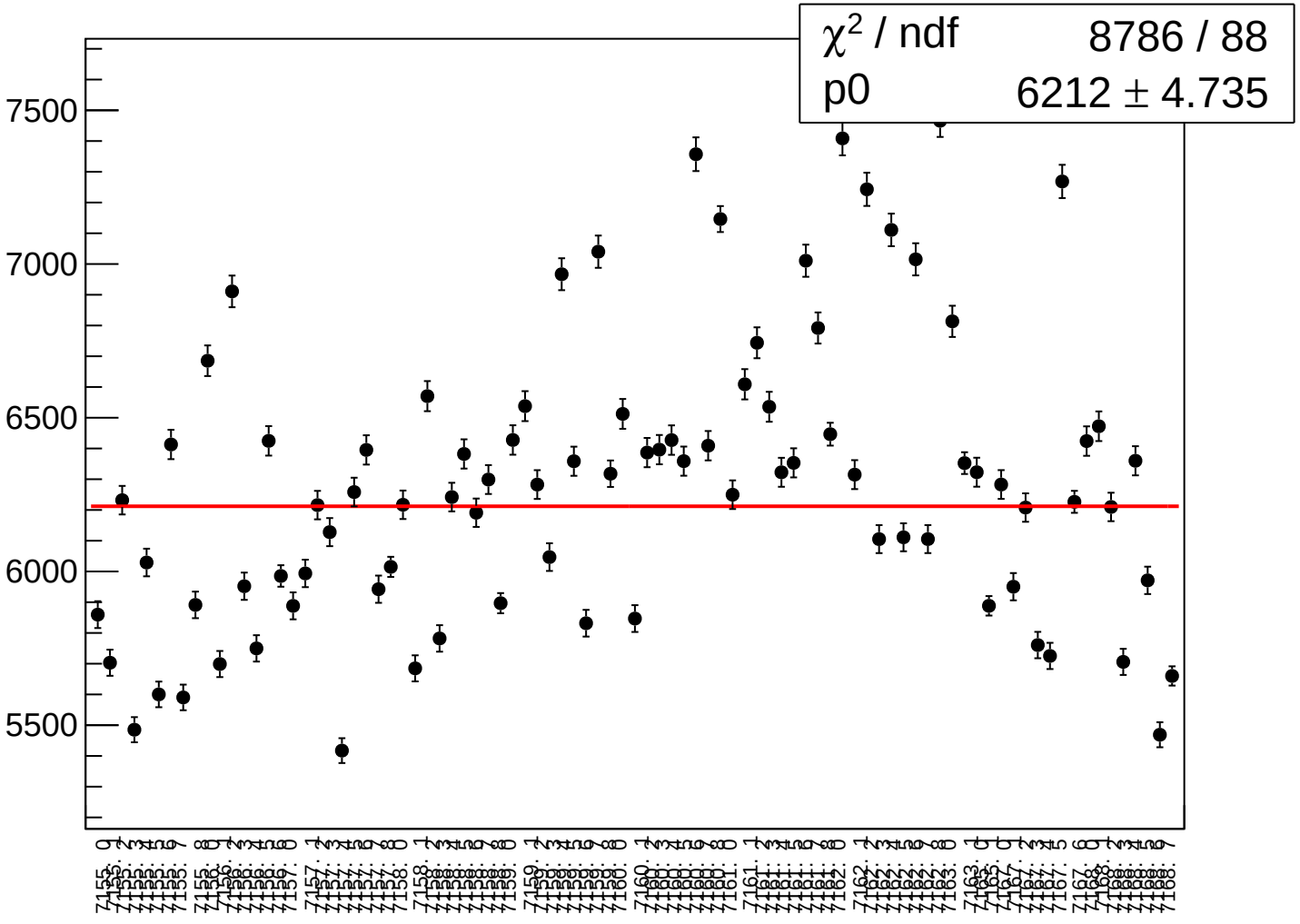

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 112.9 / 88
p0 230.3 ± 1208
pull
Entries 89
Mean 319.1
Std Dev 0

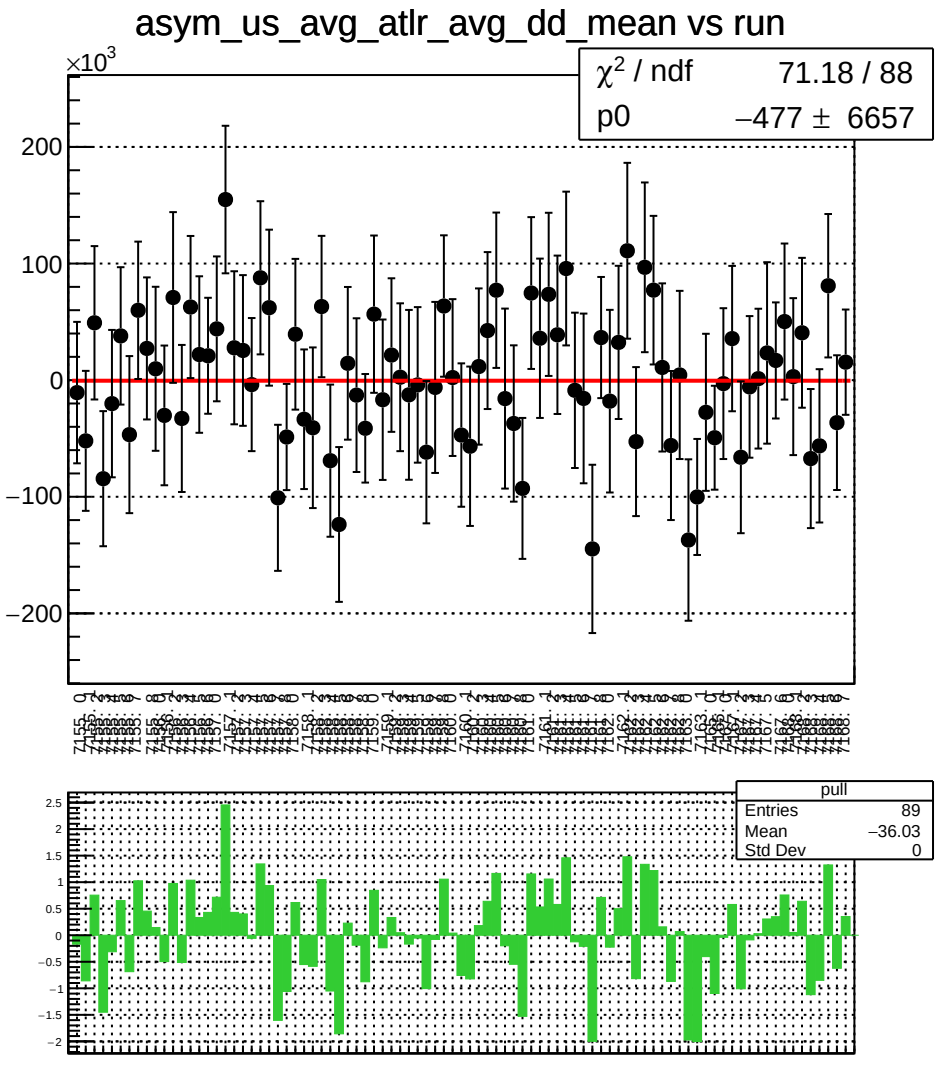

pull1D
Entries 89
Mean −0.008021
Std Dev 1.126

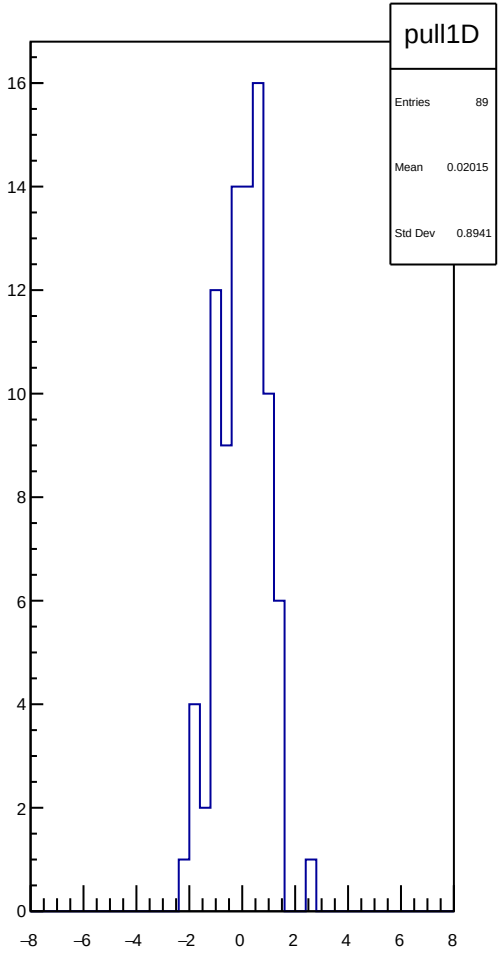

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 352.4 / 88
p0 1124 ± 0.8544
1180
1160
1140
1120
1100
1080

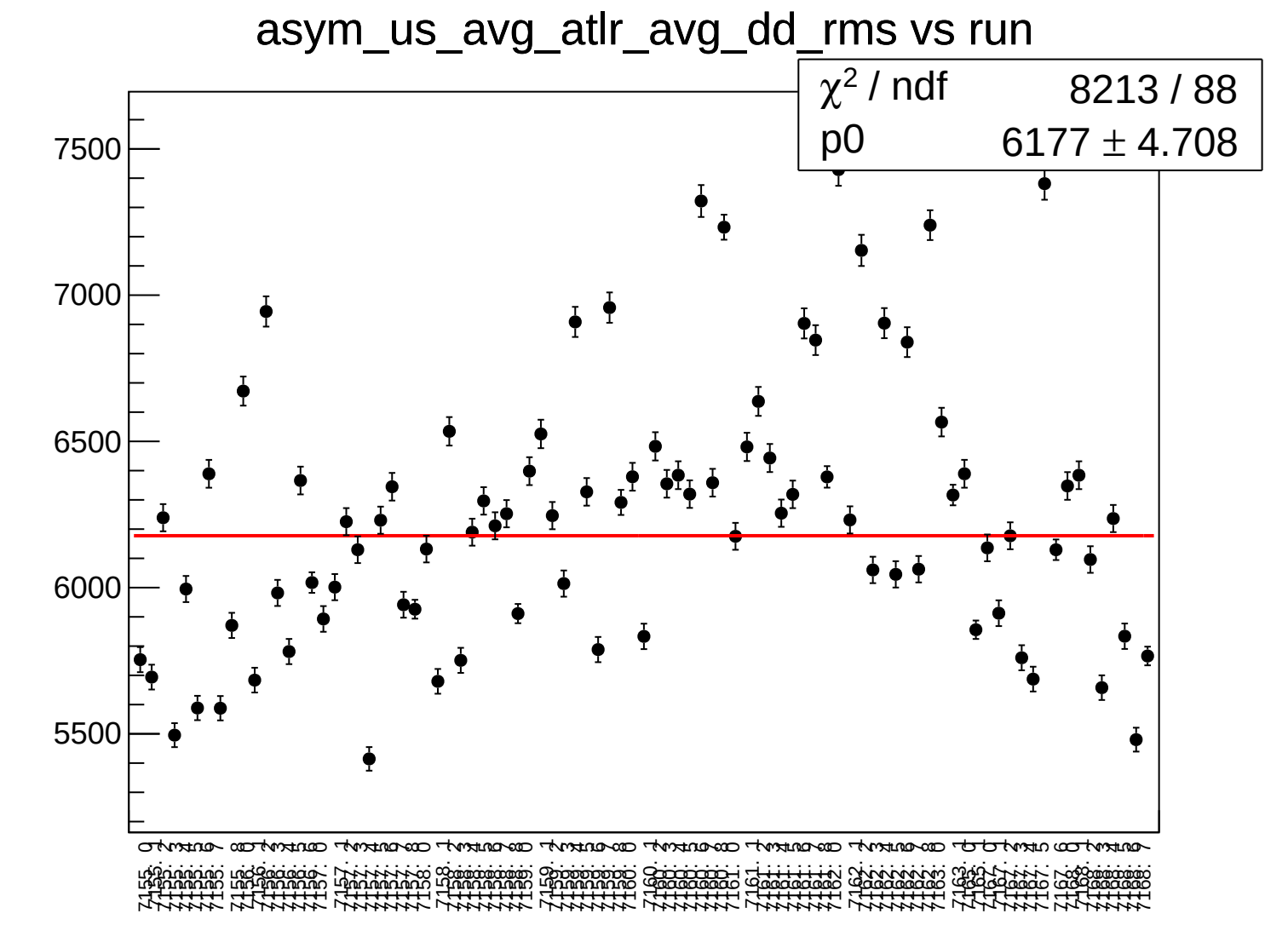

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 68.81 / 88
p0 950.5 ± 6696
200
100
0
−100
−200
pull
Entries 89
Mean −8.921
Std Dev 0
2
1
0
−1
−2

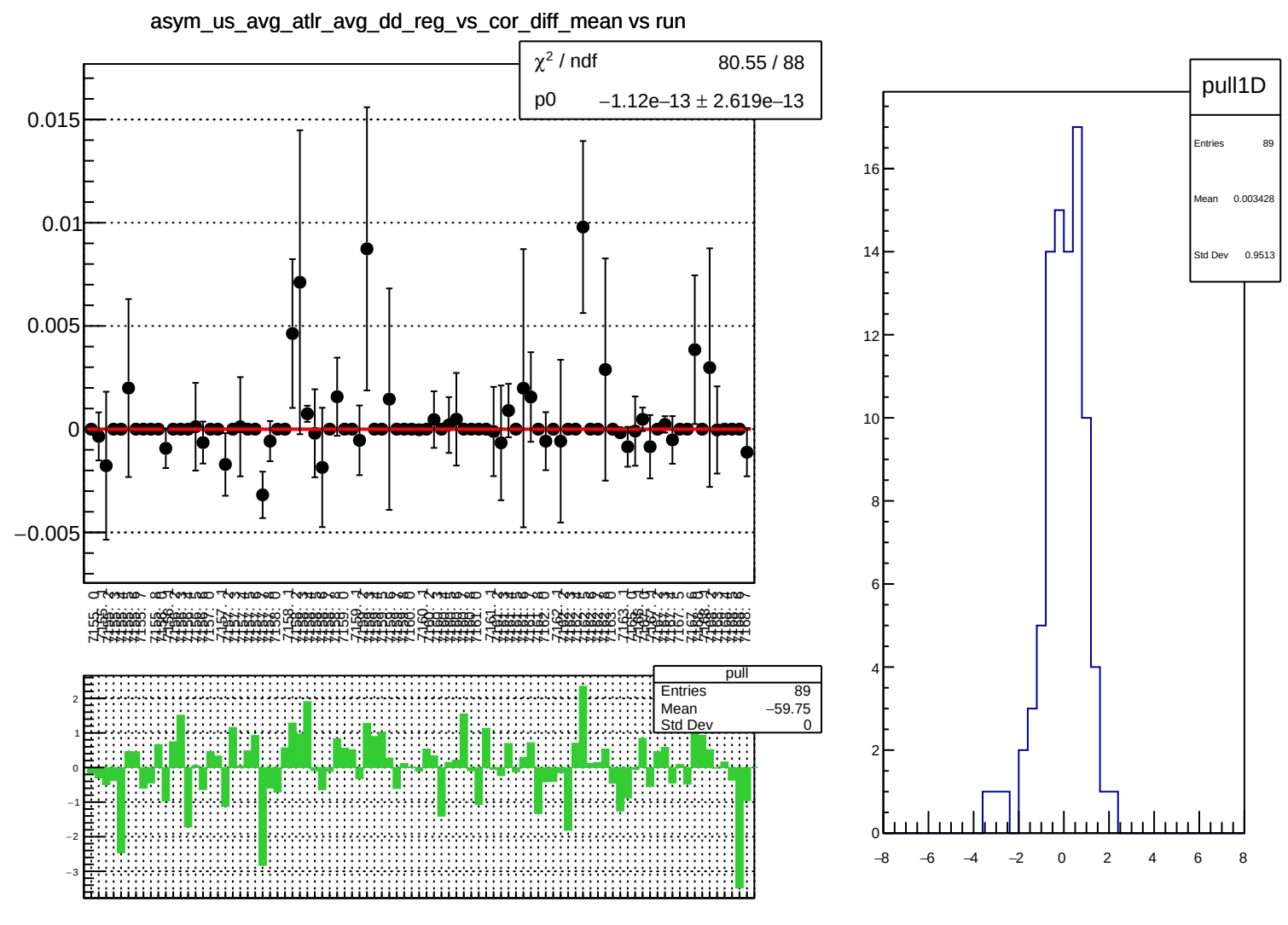

pull1D
Entries 89
Mean −0.02344
Std Dev 0.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

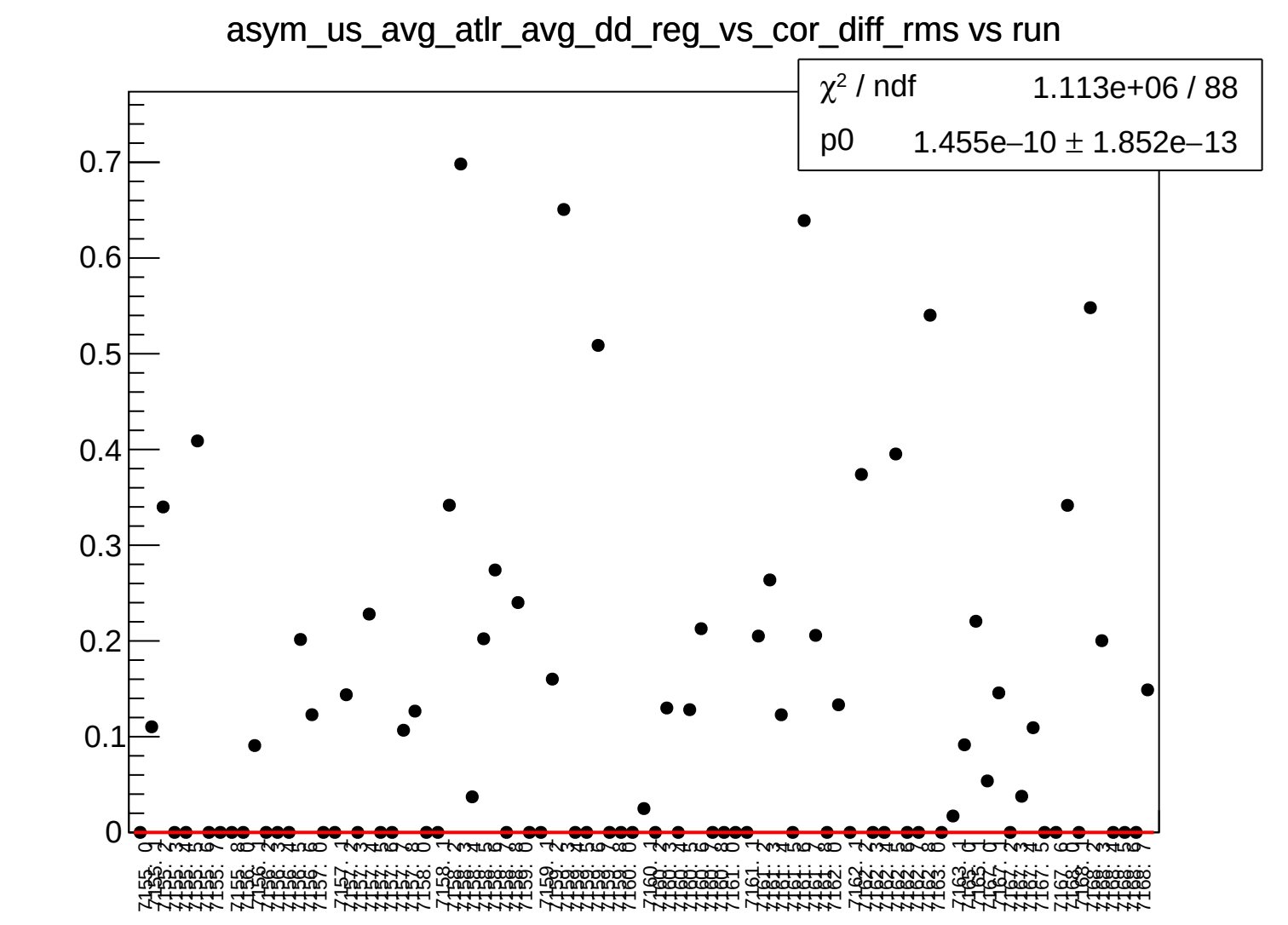

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 8786 / 88
p0 6212 ± 4.735
7500
7000
6500
6000
5500

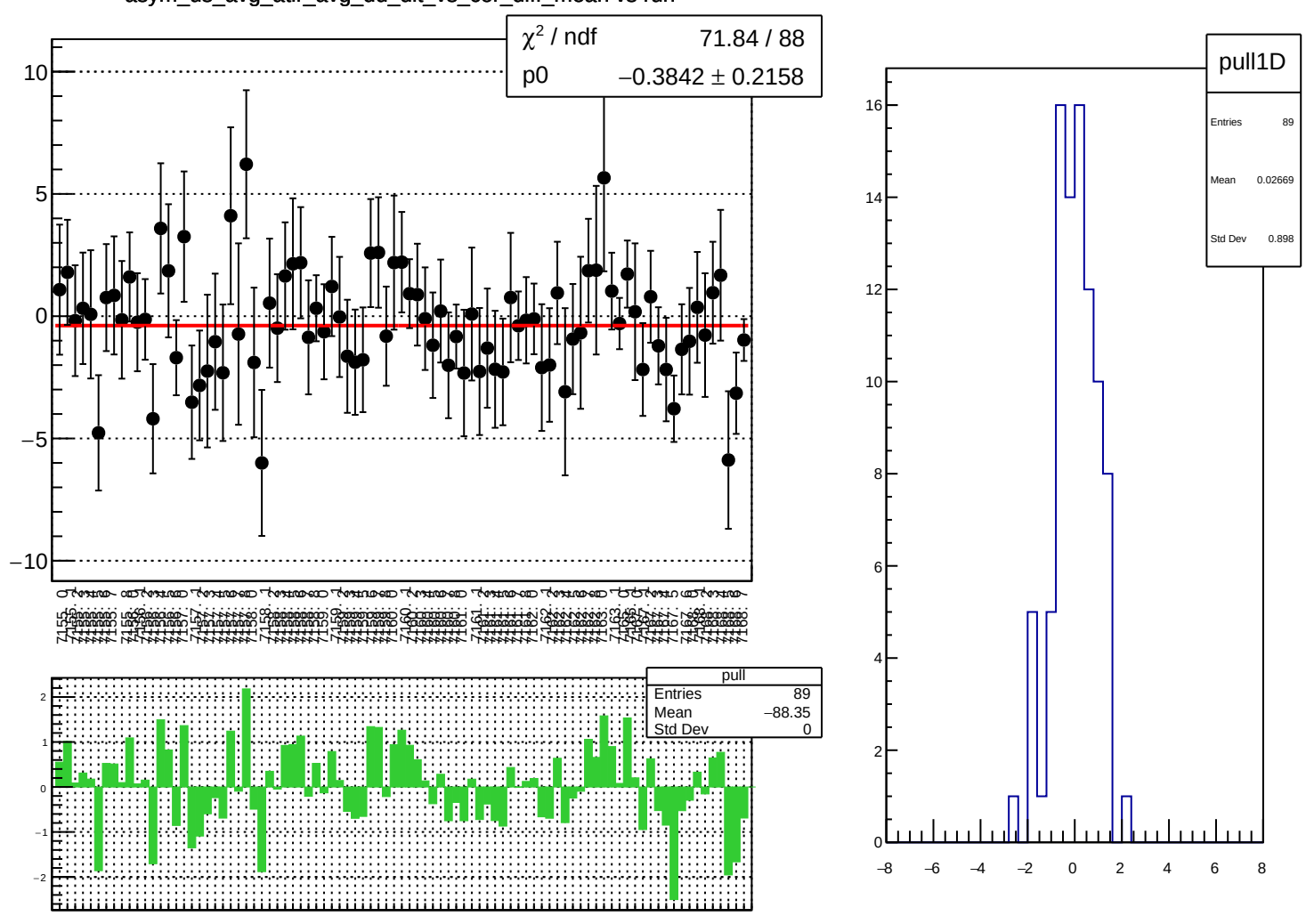

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 71.18 / 88
p0 −477 ± 6657
200
100
0
−100
−200
pull
Entries 89
Mean −36.03
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

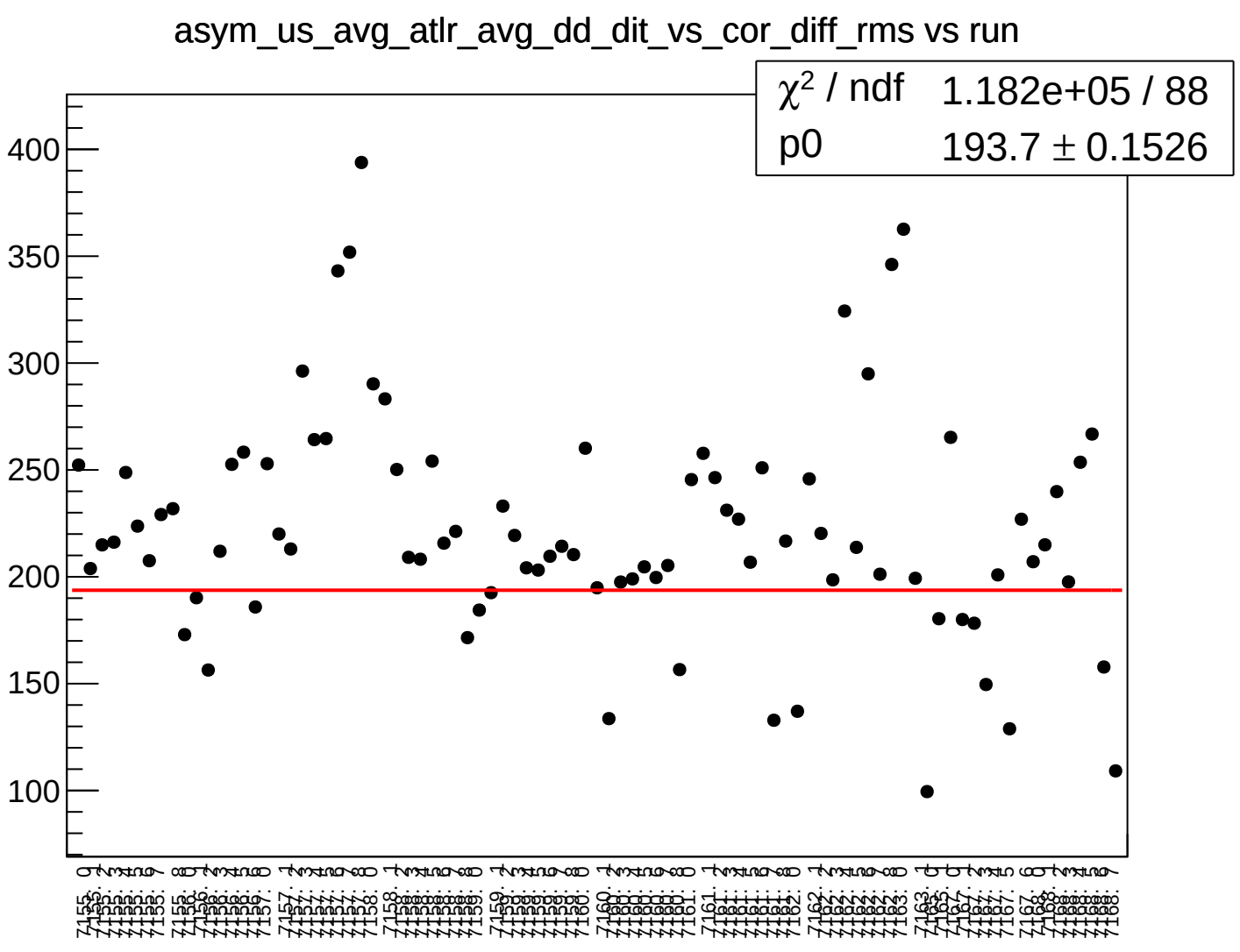

pull1D
Entries 89
Mean 0.02015
Std Dev 0.8941
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

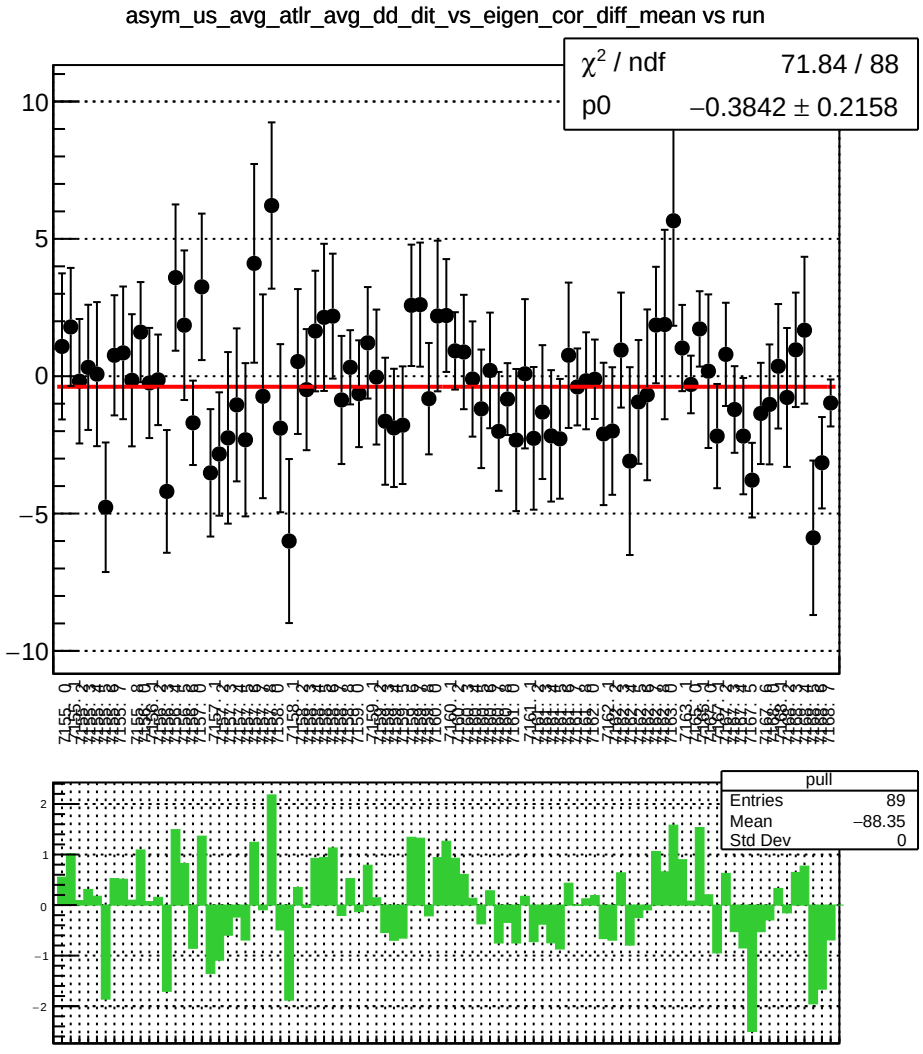

asym_us_avg_atlr_avg_dd_rms vs run
χ^2 / ndf 8213 / 88
p0 6177 ± 4.708
7500
7000
6500
6000
5500

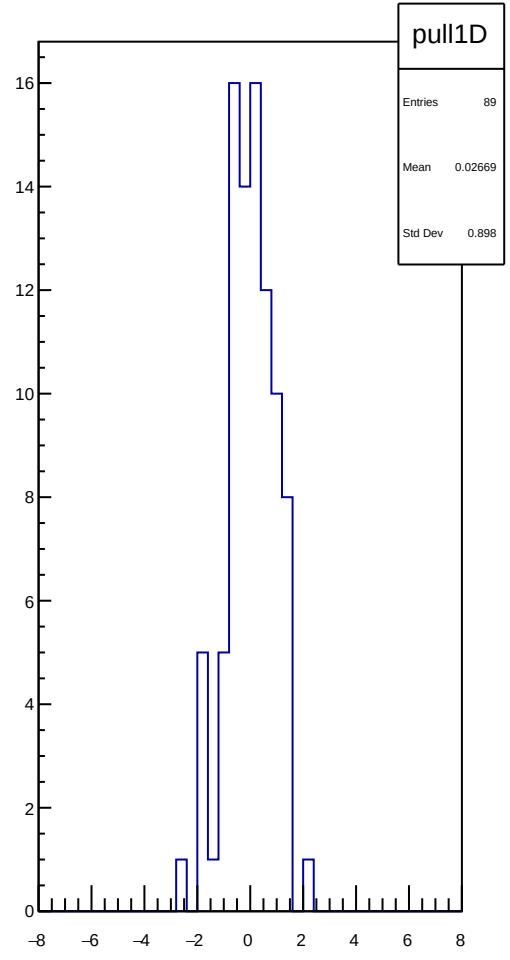

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.55 / 88
p0 −1.12e−13 ± 2.619e−13
0.015
0.01
0.005
0
−0.005
pull
Entries 89
Mean −59.75
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.003428
Std Dev 0.9513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

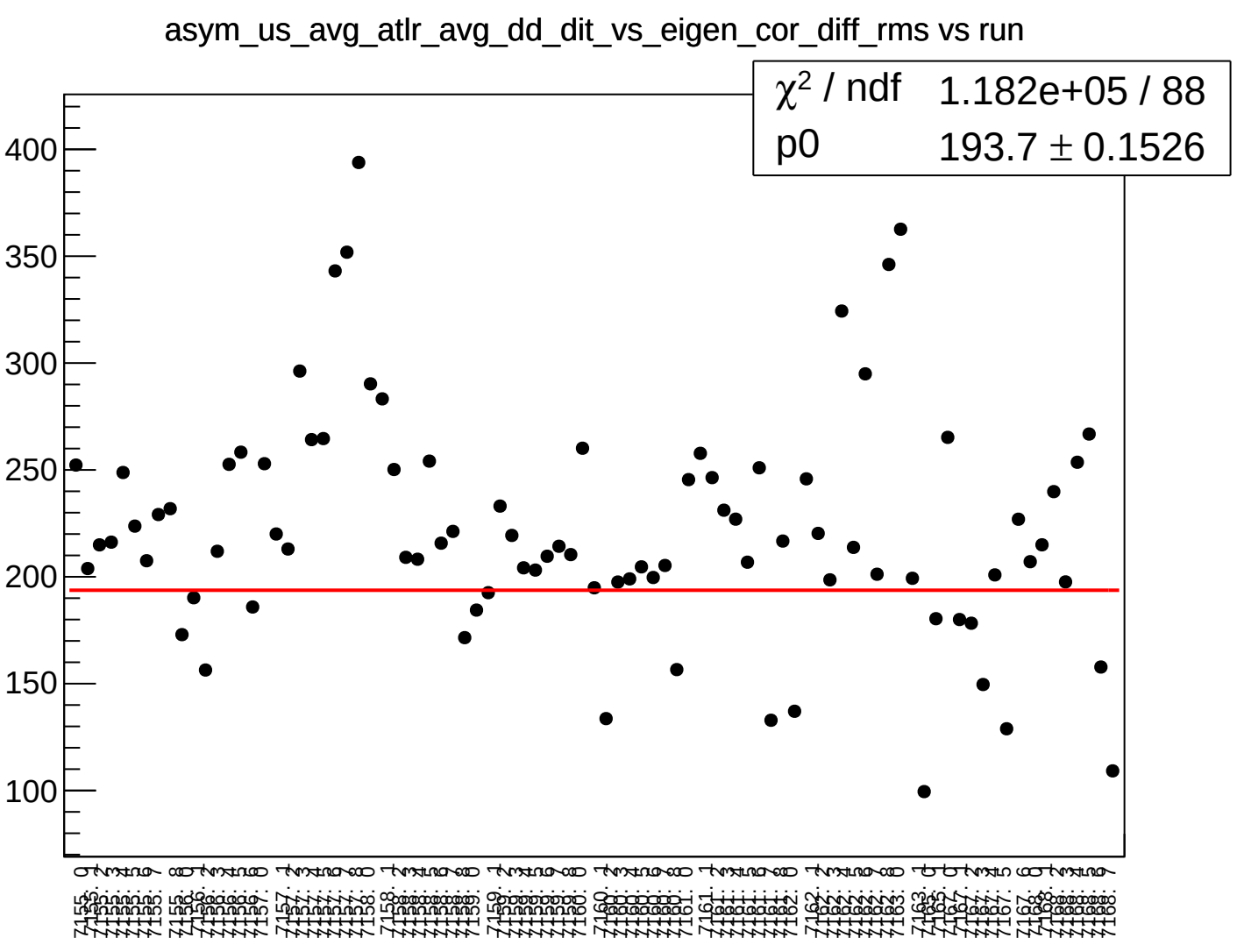

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.113e+06 / 88
p0 1.455e−10 ± 1.852e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

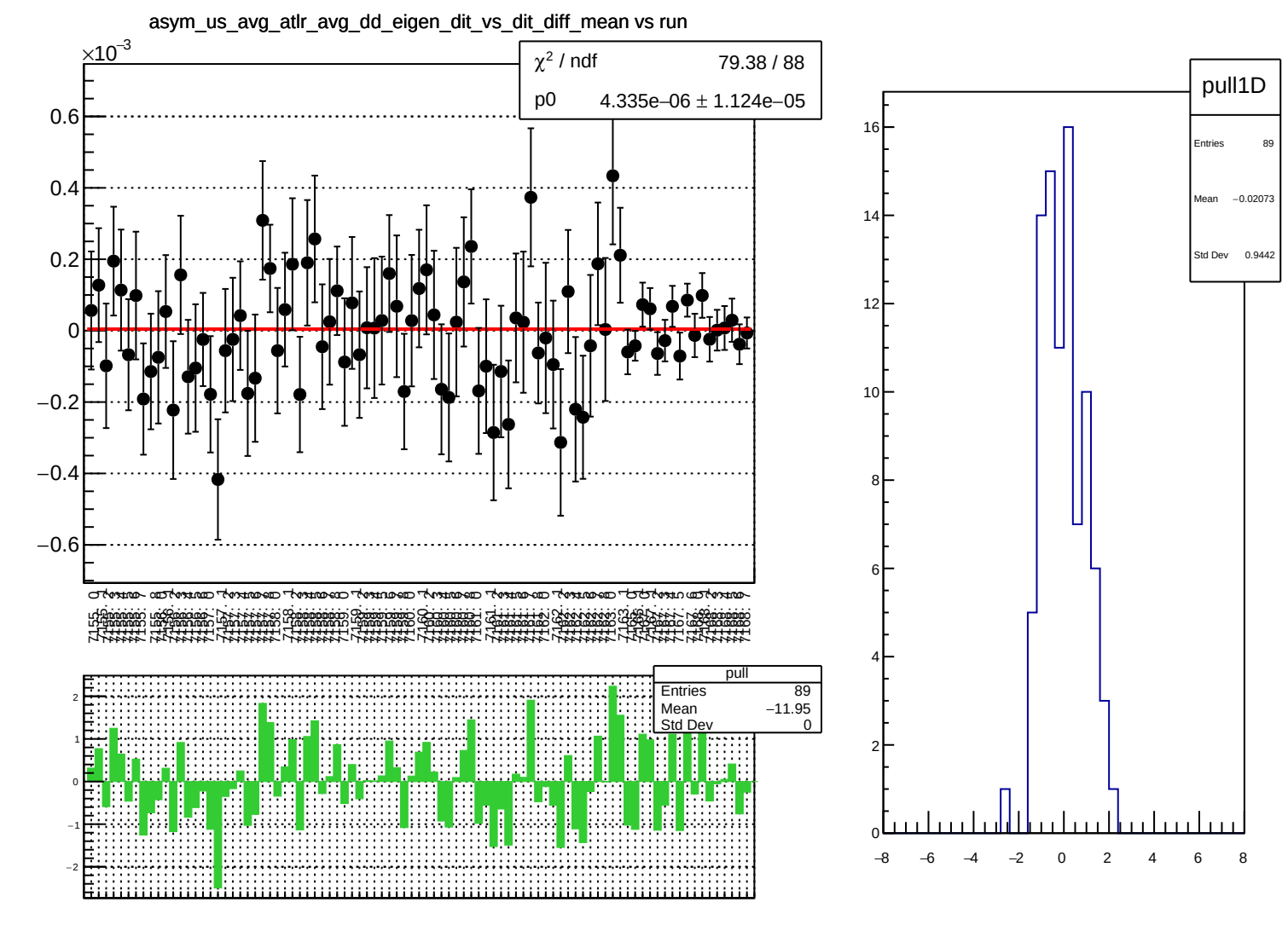

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.84 / 88
p0 −0.3842 ± 0.2158
pull
Entries 89
Mean −88.35
Std Dev 0
pull1D
Entries 89
Mean 0.02669
Std Dev 0.898

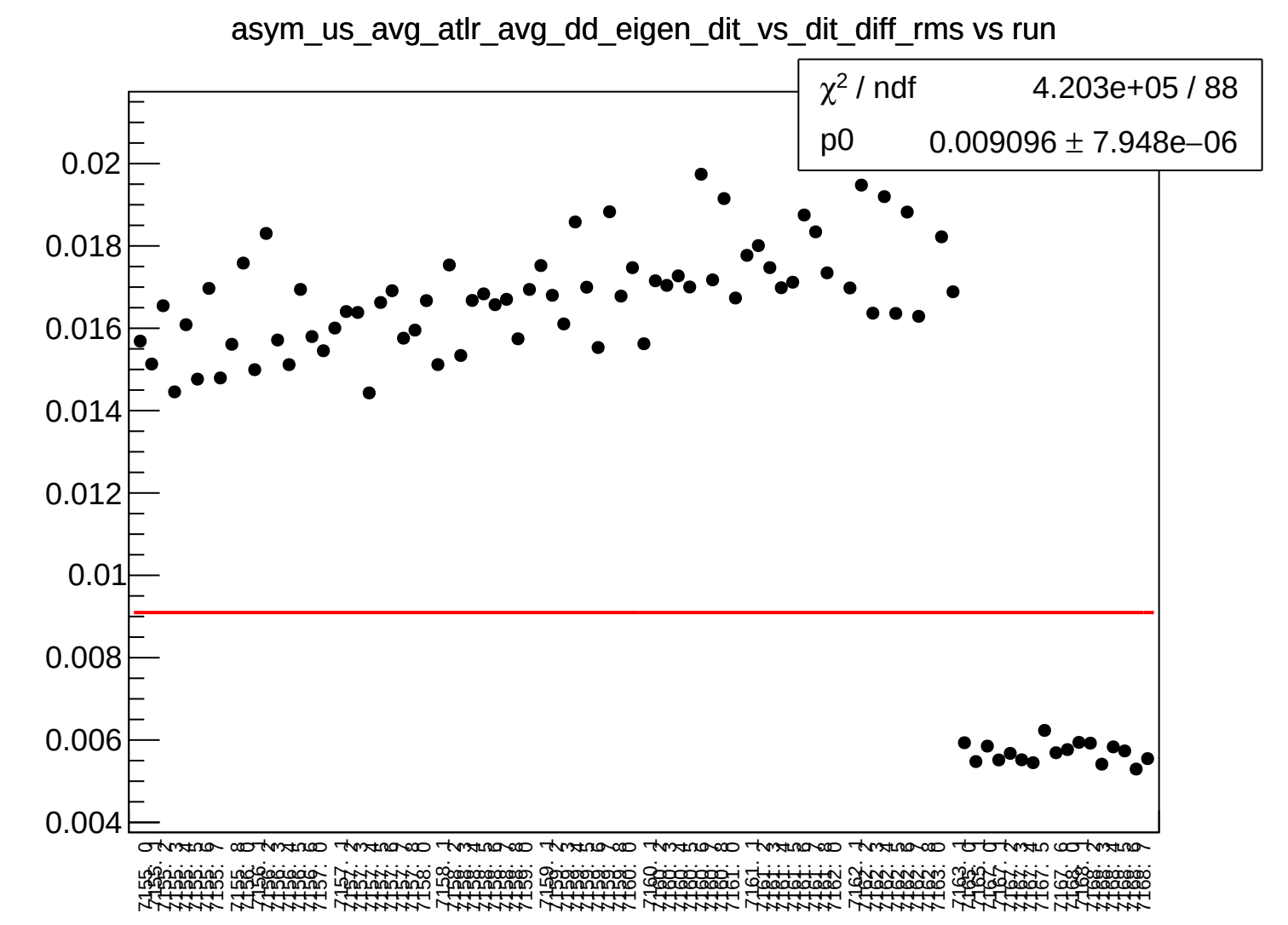

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 88
p0 193.7 ± 0.1526
400
350
300
250
200
150
100

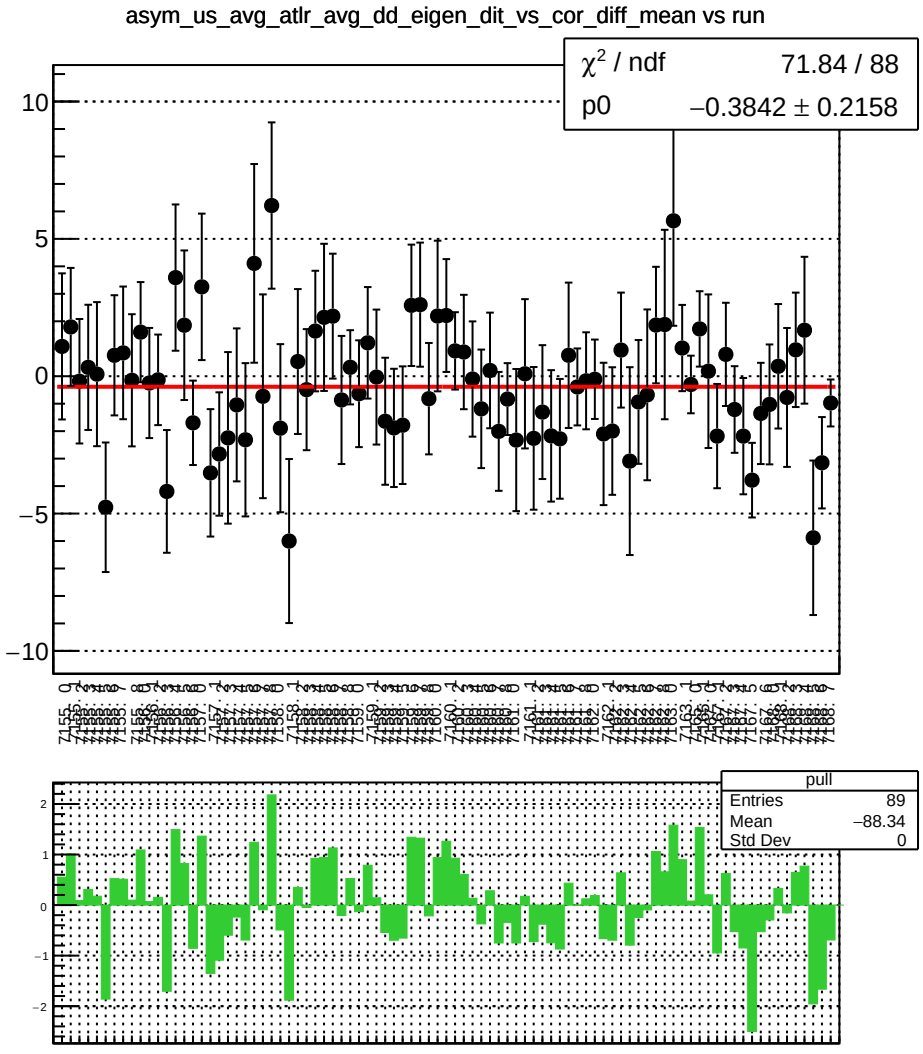

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.84 / 88
p0 −0.3842 ± 0.2158
pull
Entries 89
Mean −88.35
Std Dev 0

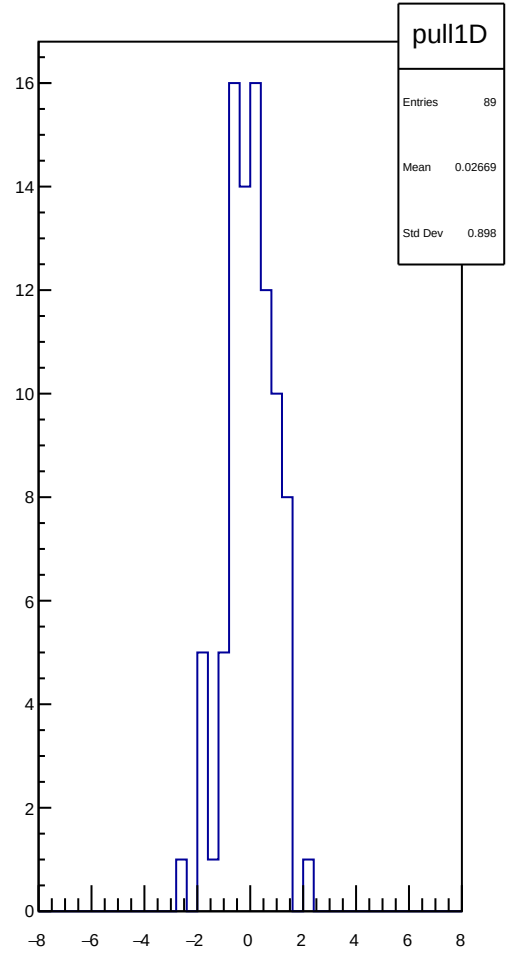

pull1D
Entries 89
Mean 0.02669
Std Dev 0.898

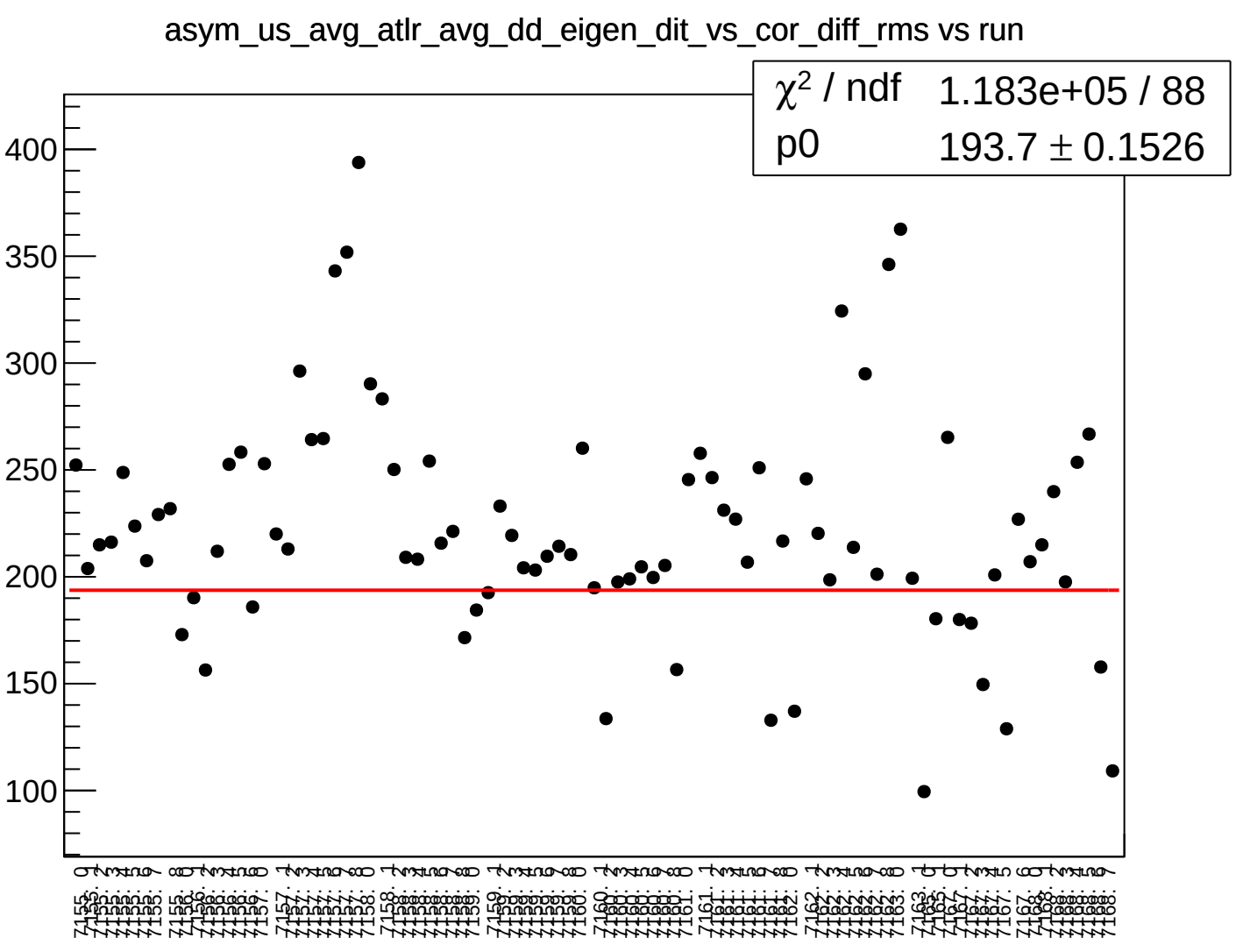

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.182e+05 / 88
p0 193.7 ± 0.1526
400
350
300
250
200
150
100

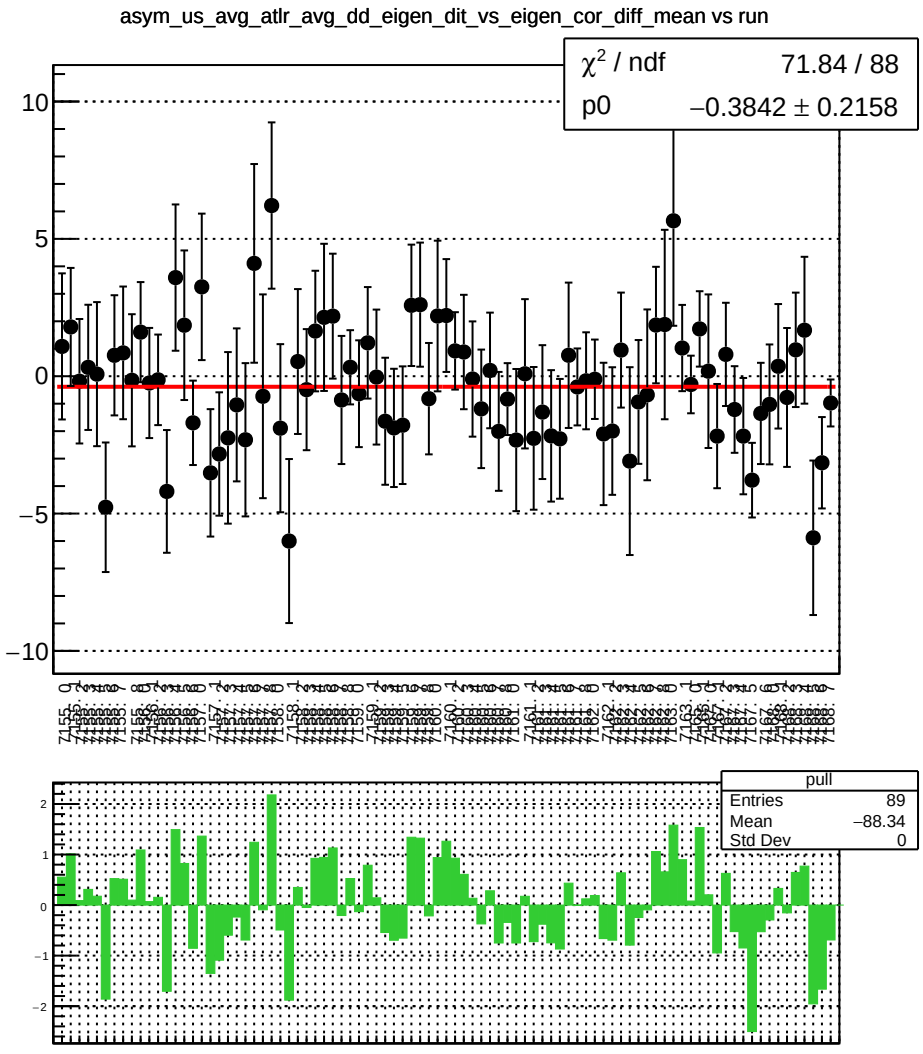

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.38 / 88
p0 4.335e−06 ± 1.124e−05
pull
Entries 89
Mean −11.95
Std Dev 0
pull1D
Entries 89
Mean −0.02073
Std Dev 0.9442

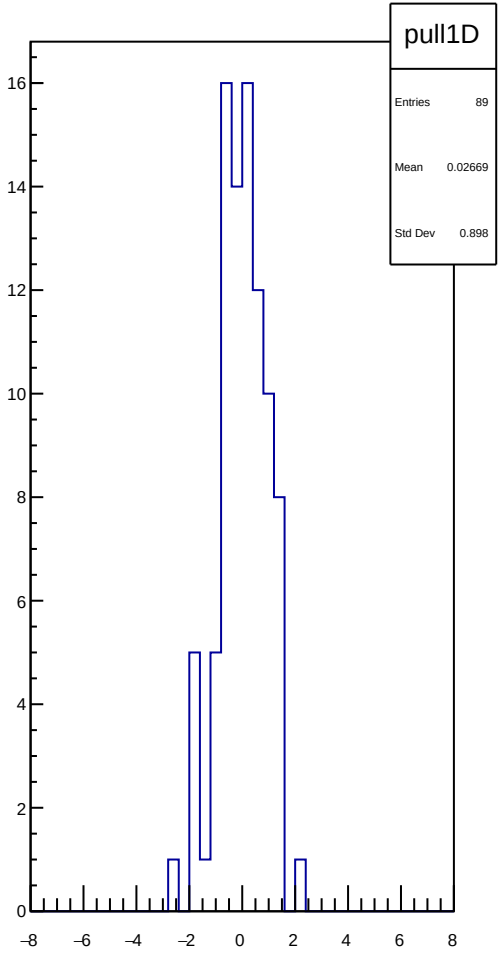

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 4.203e+05 / 88
p0 0.009096 ± 7.948e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

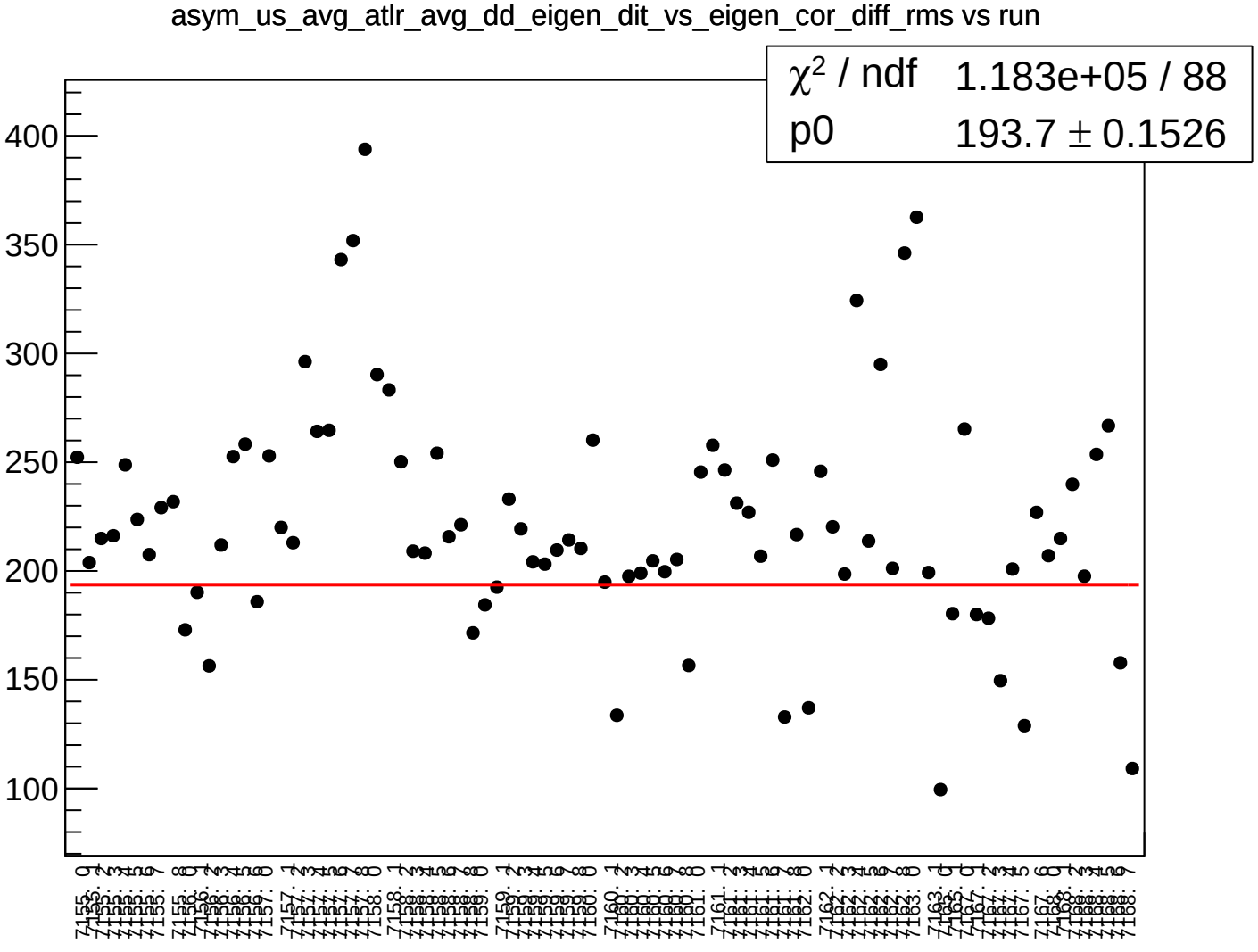

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.84 / 88
p0 −0.3842 ± 0.2158
pull
Entries 89
Mean −88.34
Std Dev 0

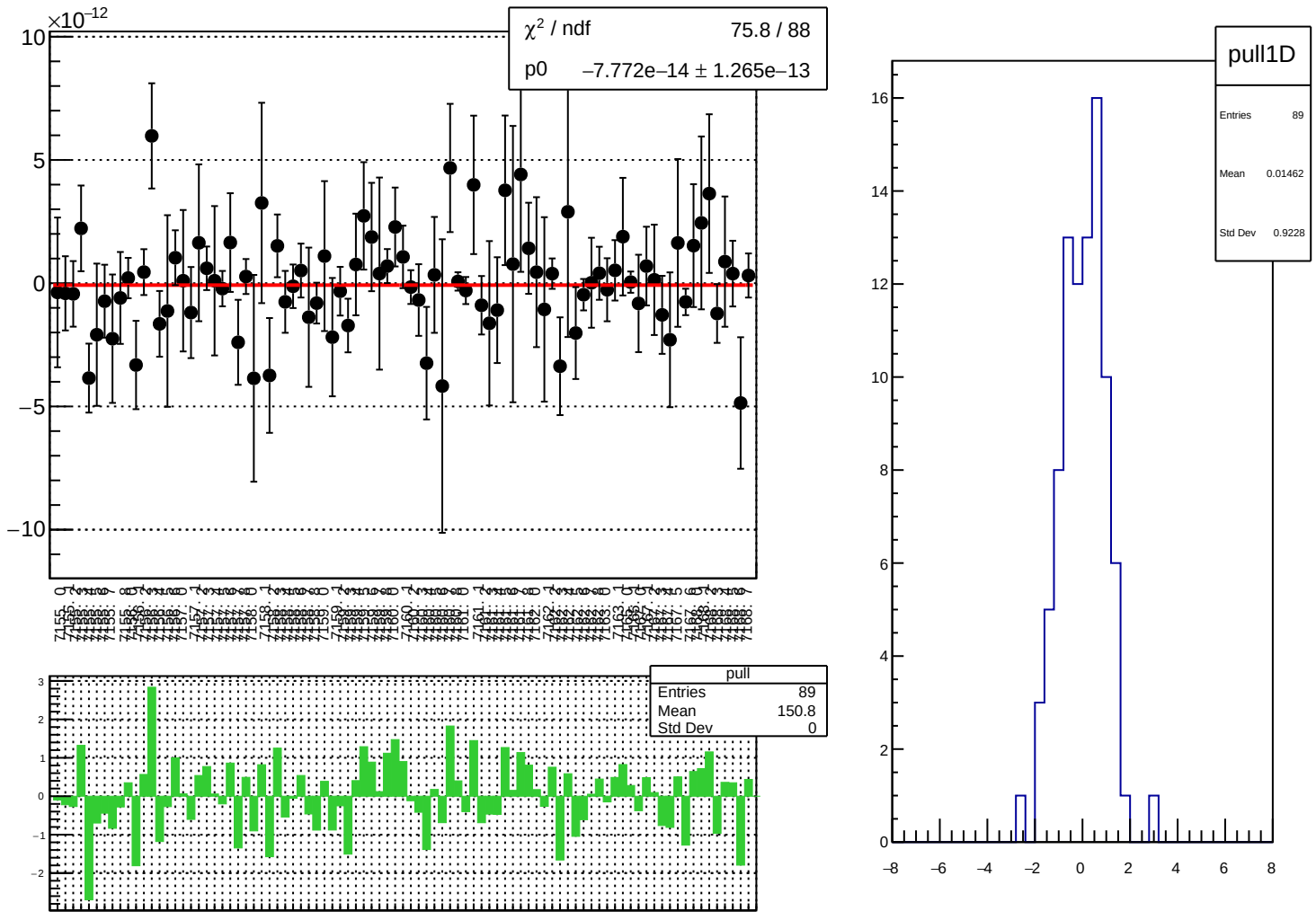

pull1D
Entries 89
Mean 0.02669
Std Dev 0.898

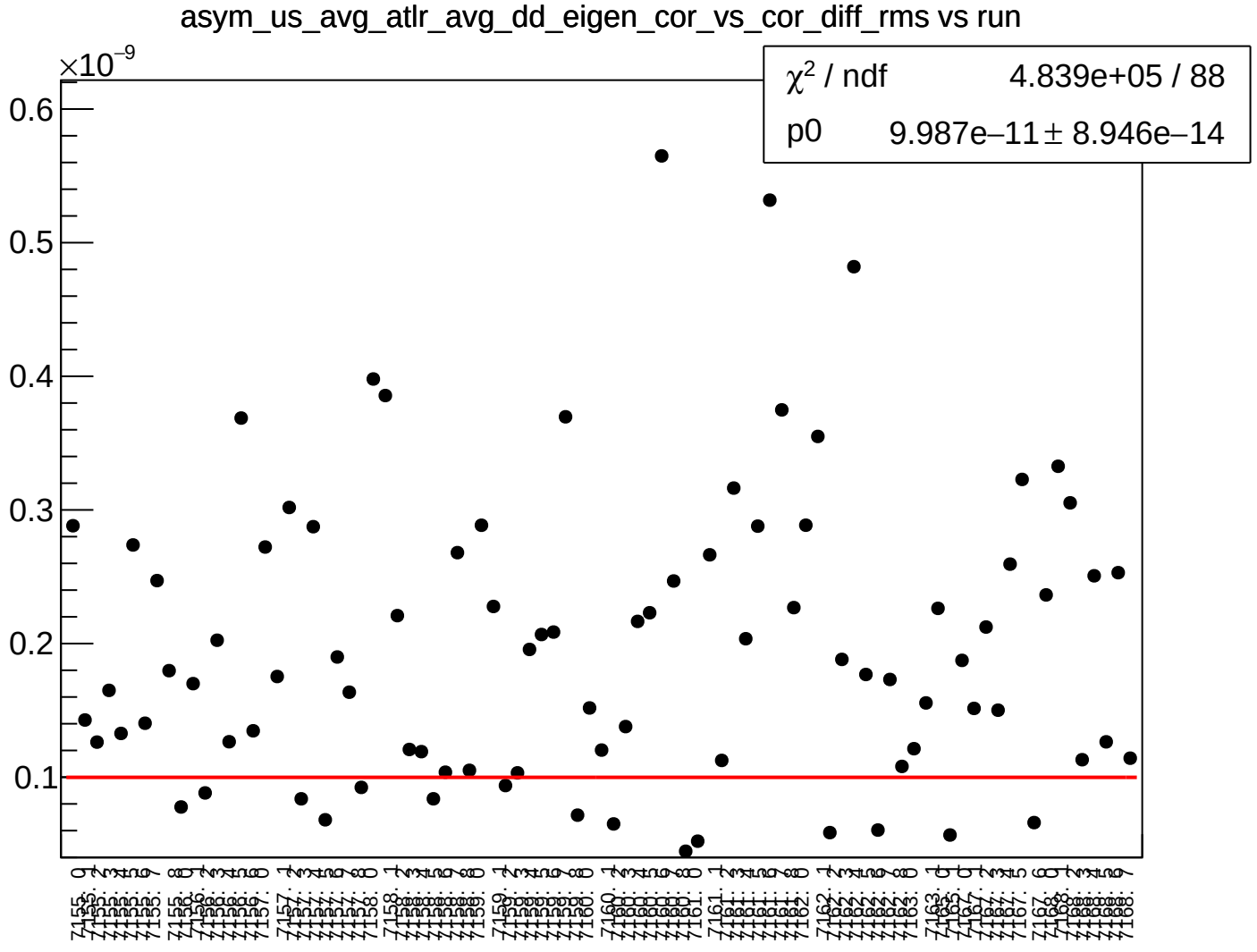

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 88
p0 193.7 ± 0.1526
400
350
300
250
200
150
100

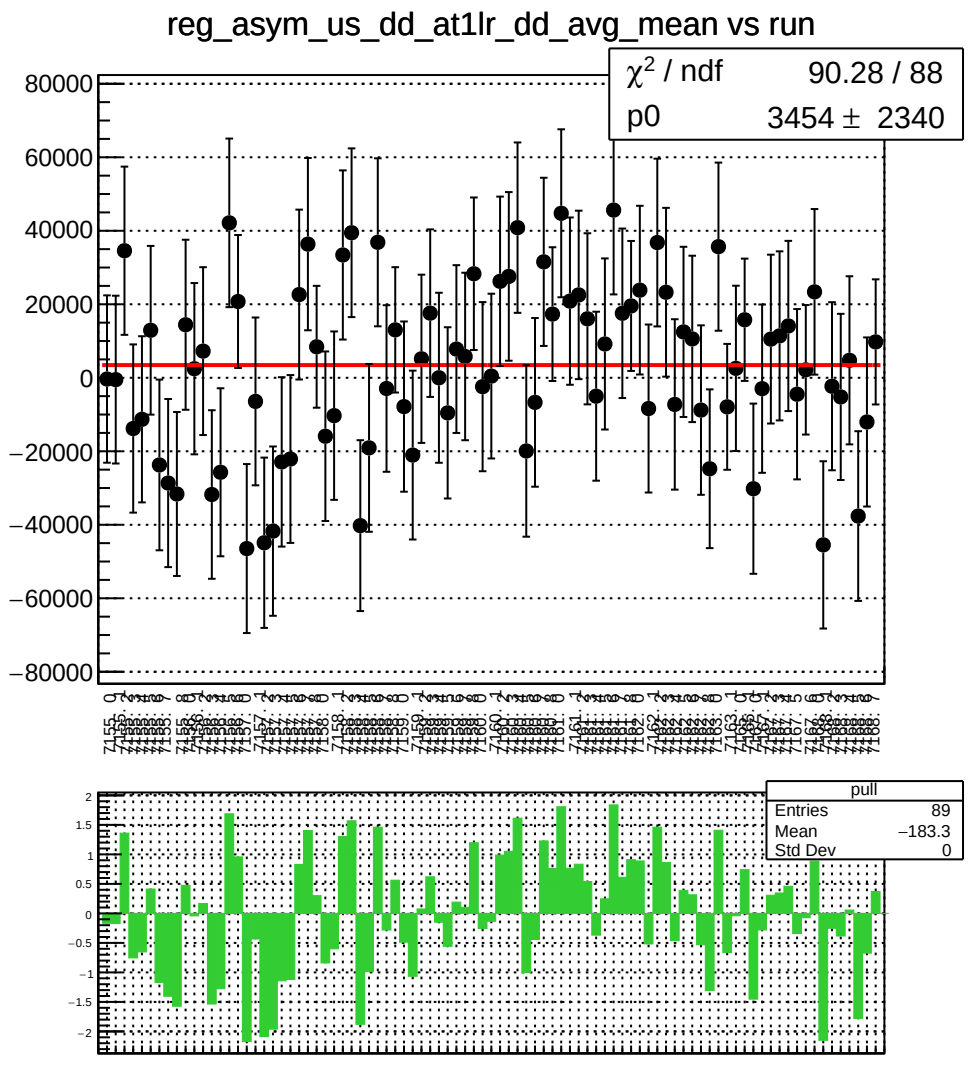

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.84 / 88
p0 −0.3842 ± 0.2158
pull
Entries 89
Mean −88.34
Std Dev 0

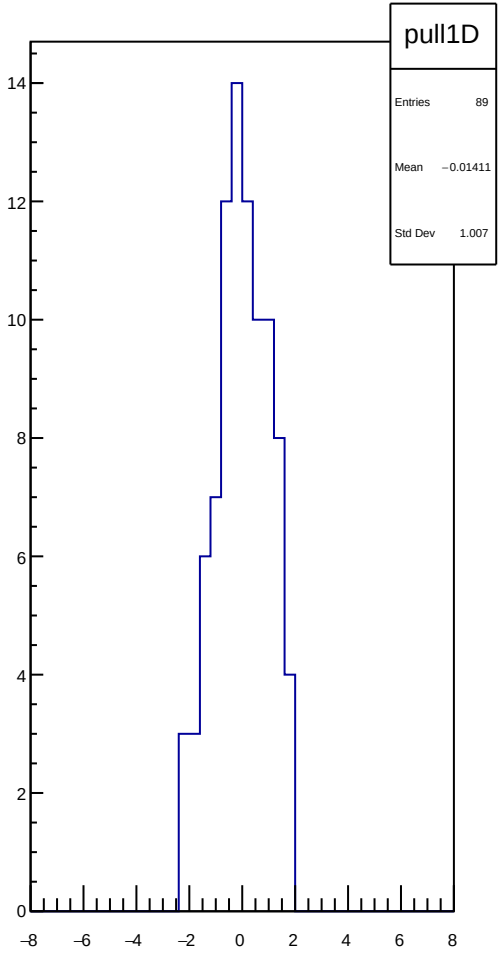

pull1D
Entries 89
Mean 0.02669
Std Dev 0.898

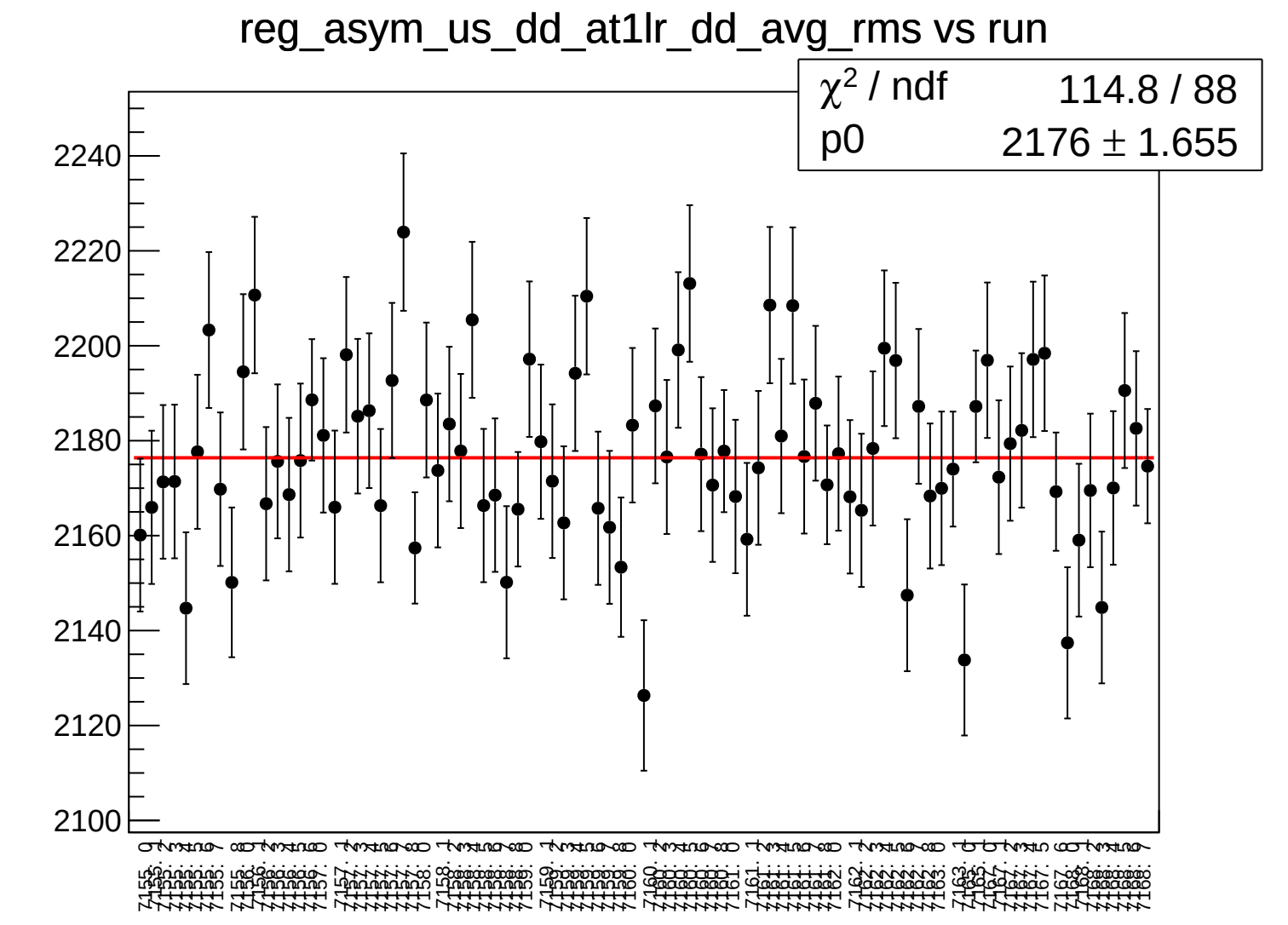

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.183e+05 / 88
p0 193.7 ± 0.1526
400
350
300
250
200
150
100

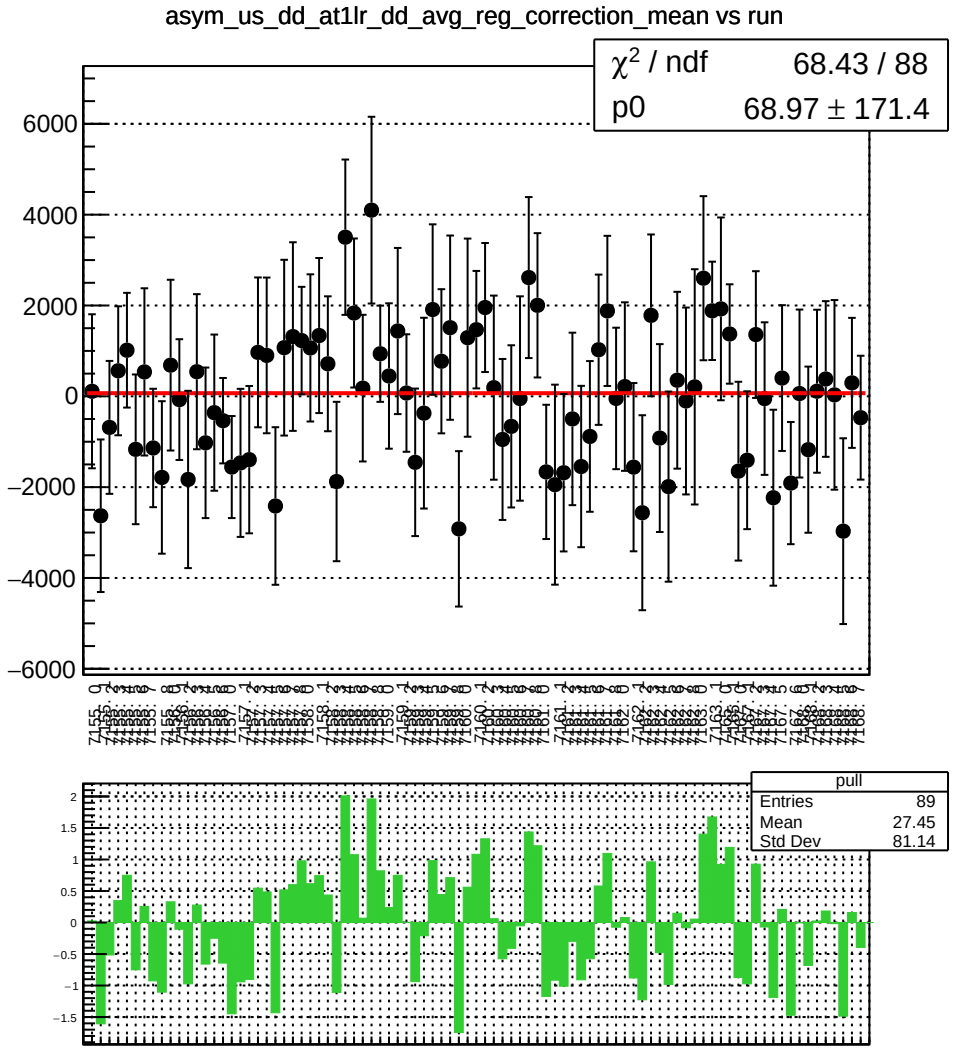

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.8 / 88
p0 −7.772e−14 ± 1.265e−13
pull
Entries 89
Mean 150.8
Std Dev 0
pull1D
Entries 89
Mean 0.01462
Std Dev 0.9228

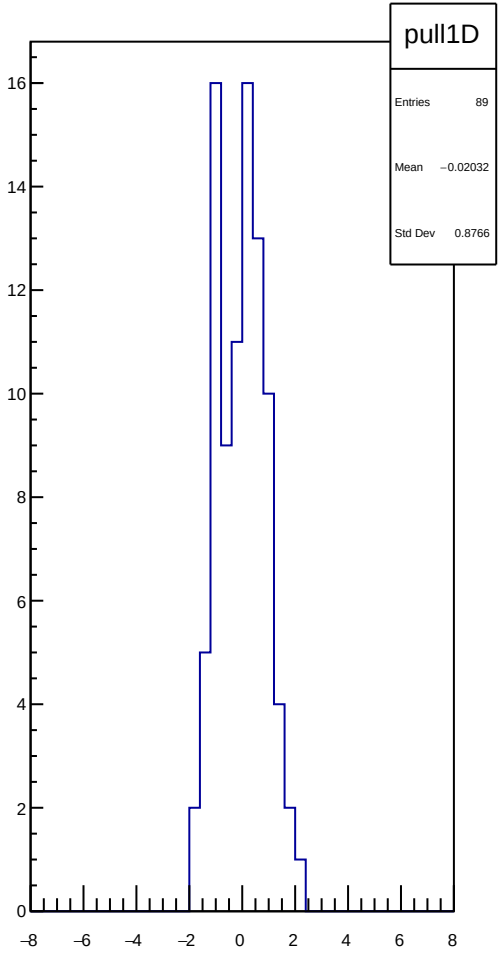

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.839e+05 / 88
p0 9.987e−11 ± 8.946e−14
0.6
0.5
0.4
0.3
0.2
0.1

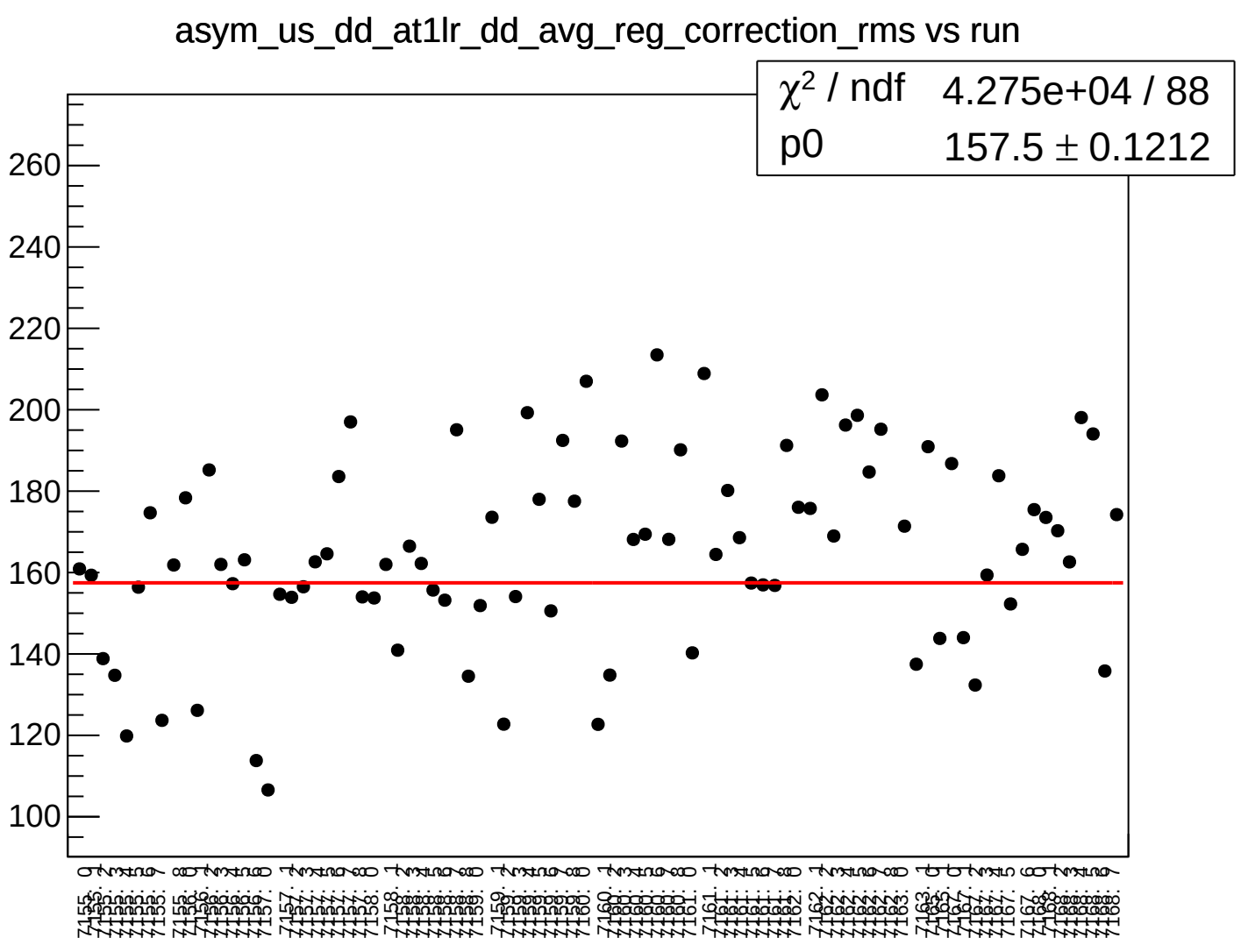

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.28 / 88
p0 3454 ± 2340
pull
Entries 89
Mean −183.3
Std Dev 0

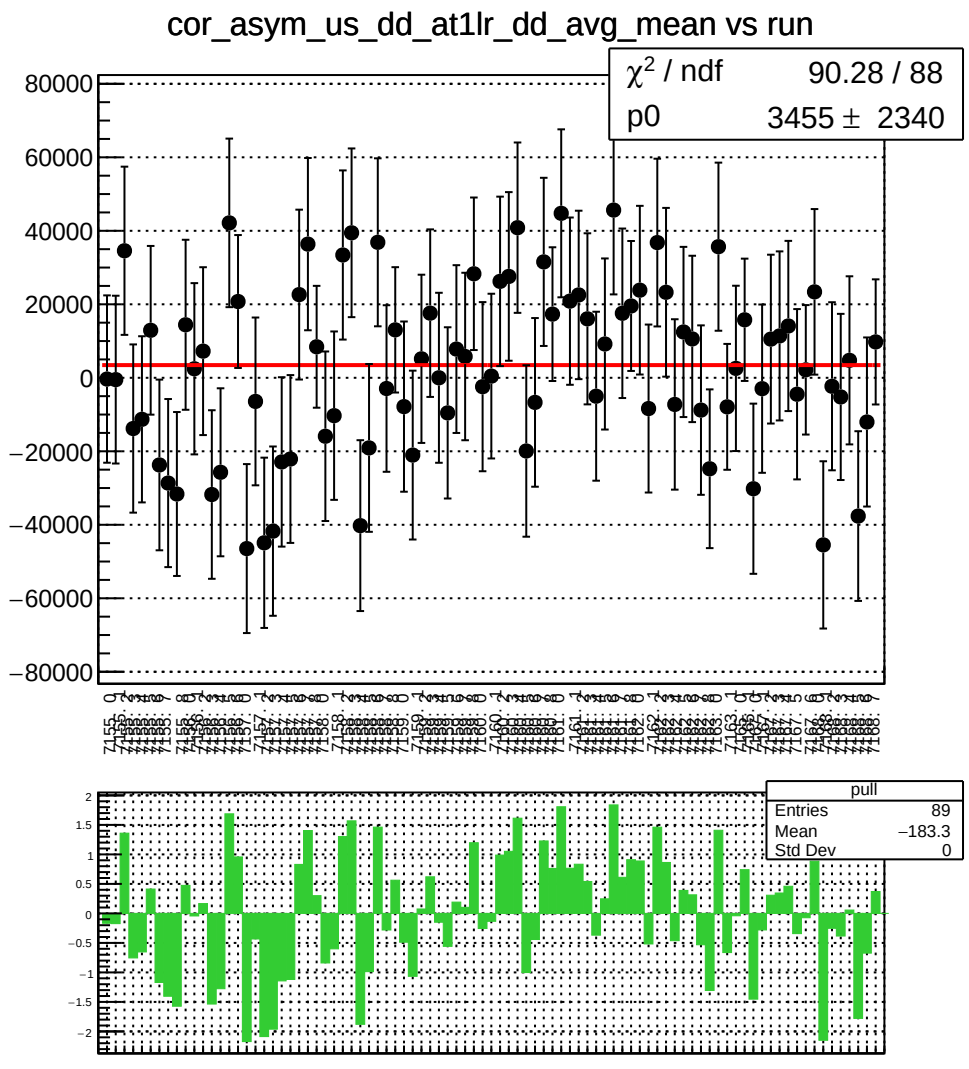

pull1D
Entries 89
Mean −0.01411
Std Dev 1.007

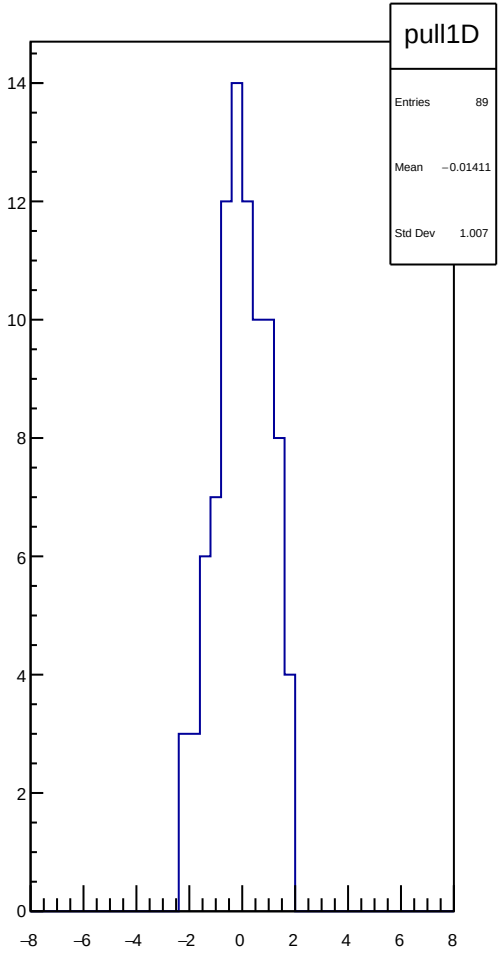

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 114.8 / 88
p0 2176 ± 1.655
2240
2220
2200
2180
2160
2140
2120
2100

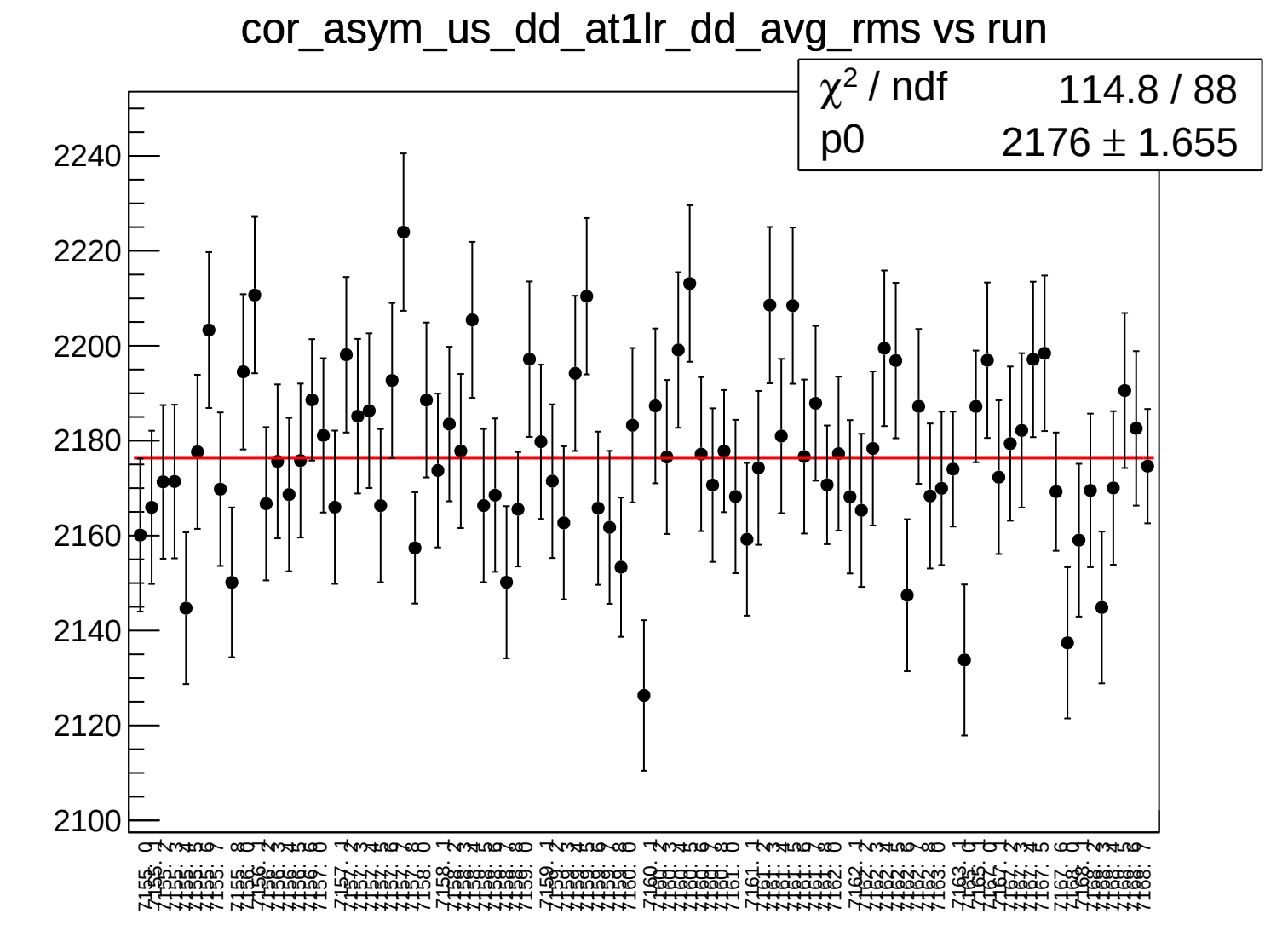

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 68.43 / 88
p0 68.97 ± 171.4
pull
Entries 89
Mean 27.45
Std Dev 81.14

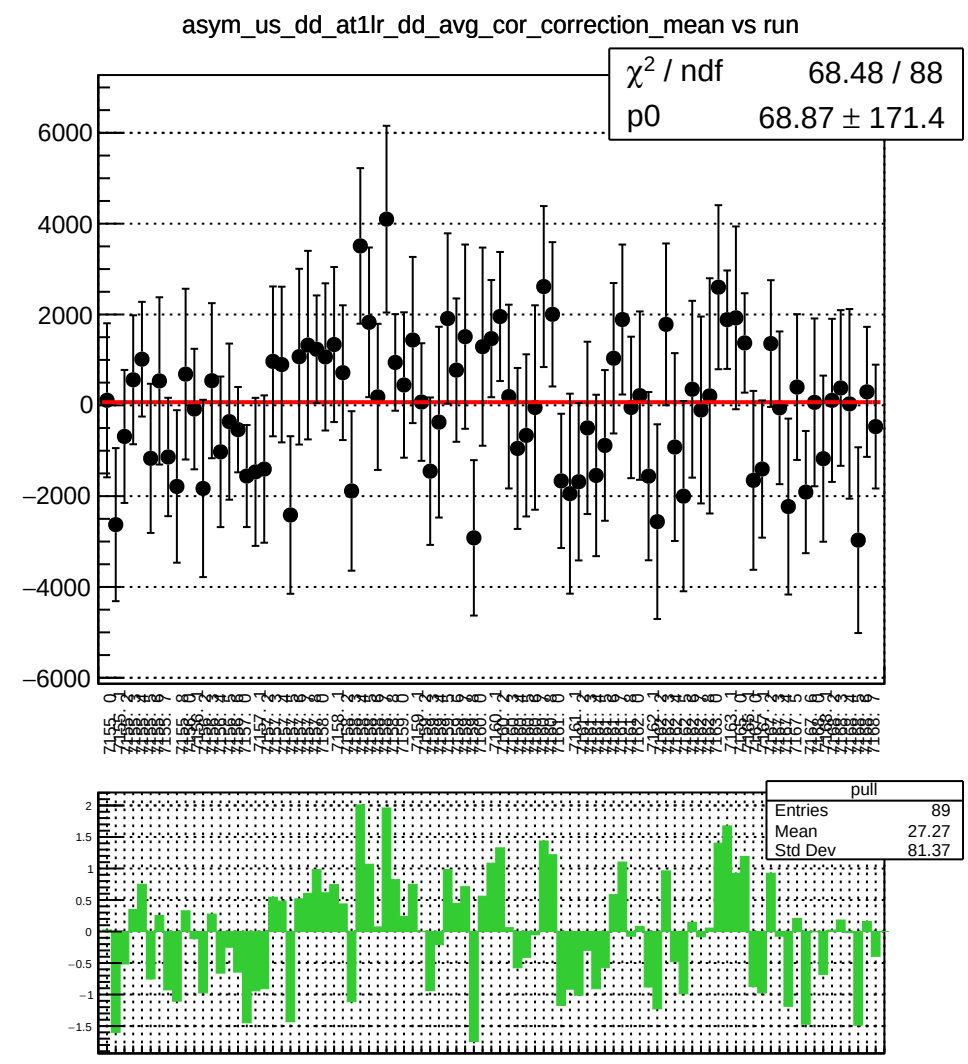

pull1D
Entries 89
Mean −0.02032
Std Dev 0.8766

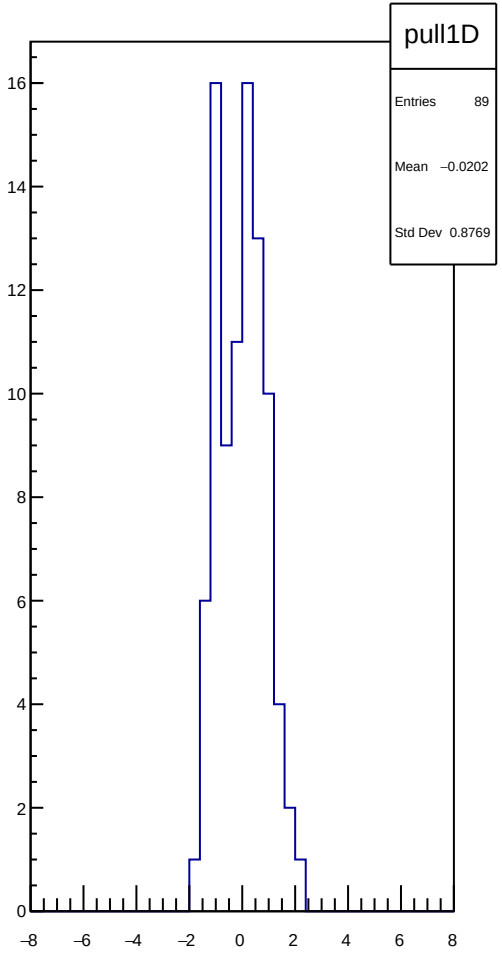

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 4.275e+04 / 88
p0 157.5 ± 0.1212
260
240
220
200
180
160
140
120
100

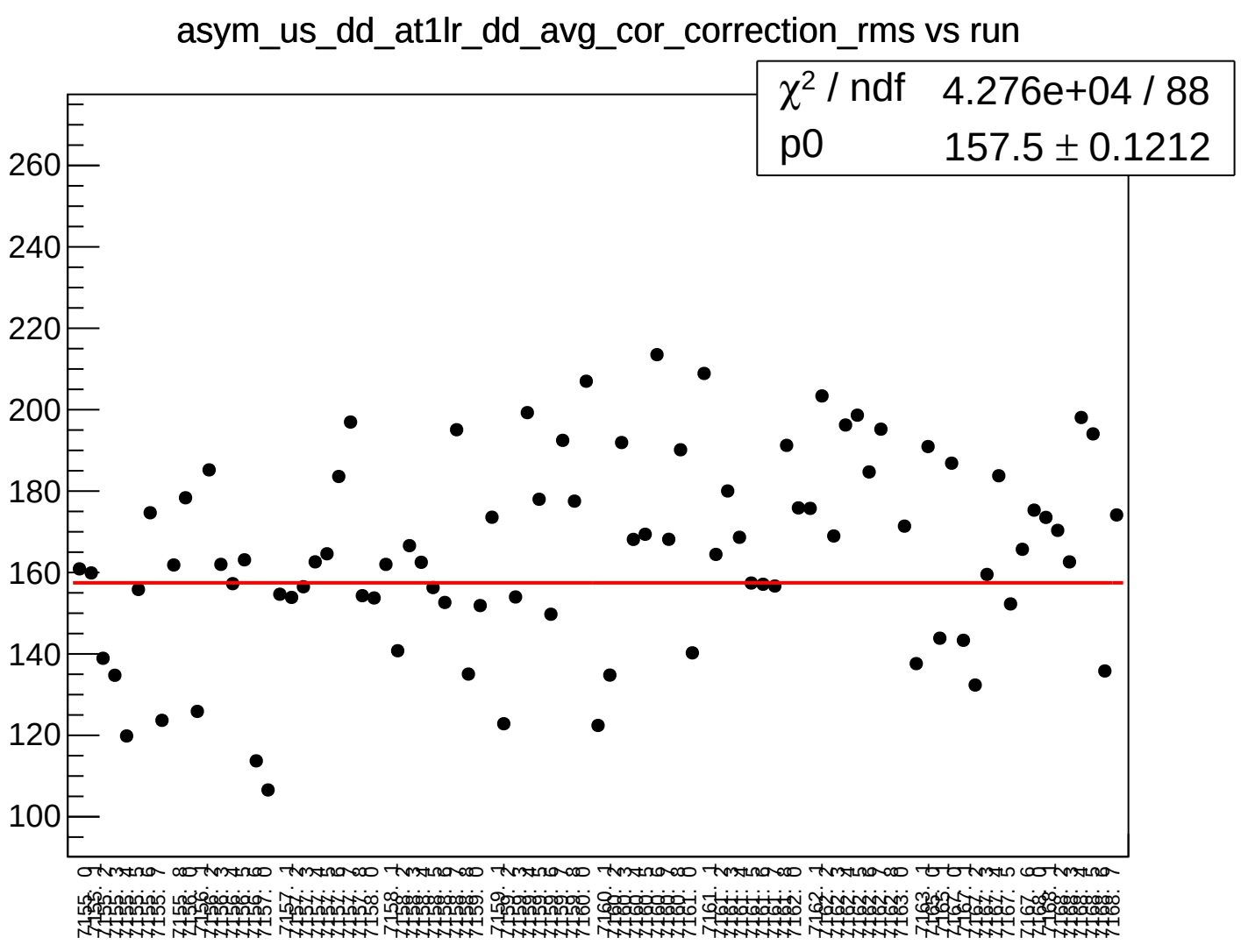

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.28 / 88
p0 3455 ± 2340
pull
Entries 89
Mean −183.3
Std Dev 0

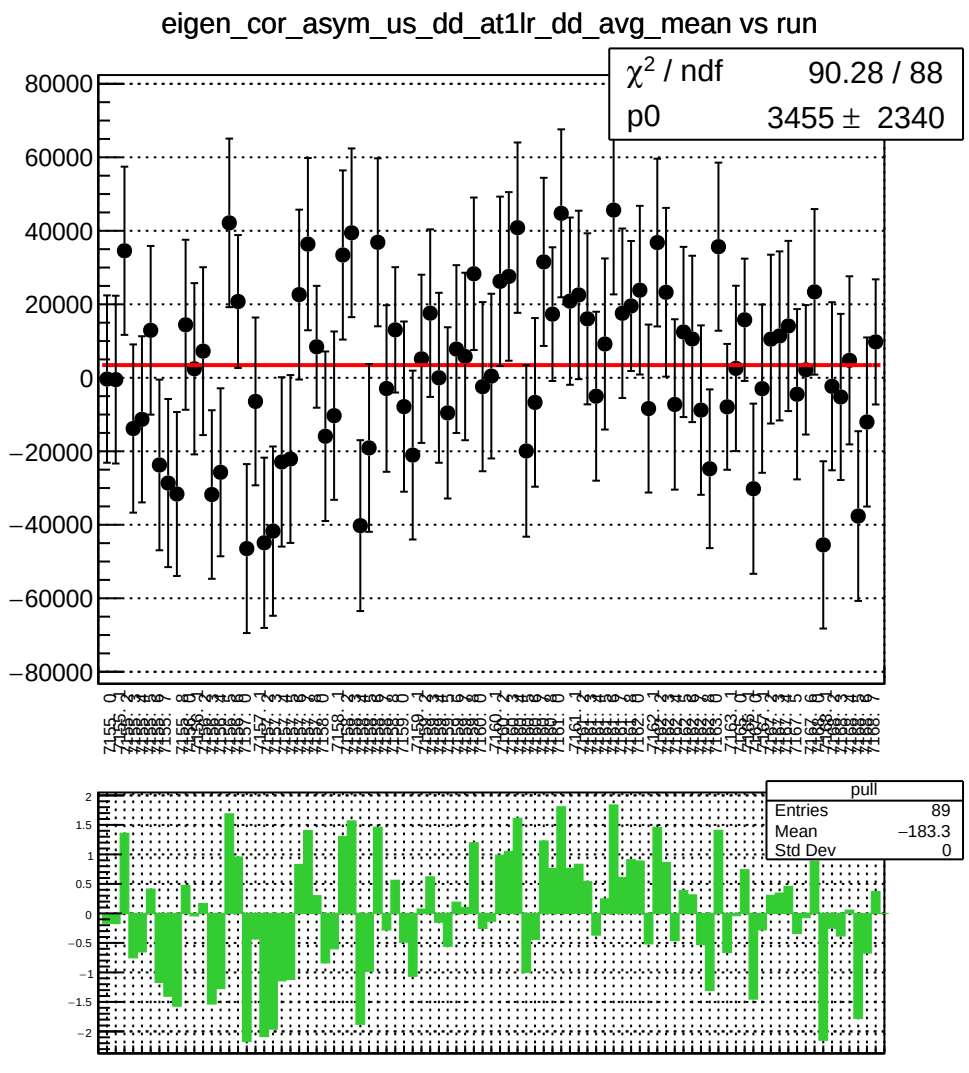

pull1D
Entries 89
Mean −0.01411
Std Dev 1.007

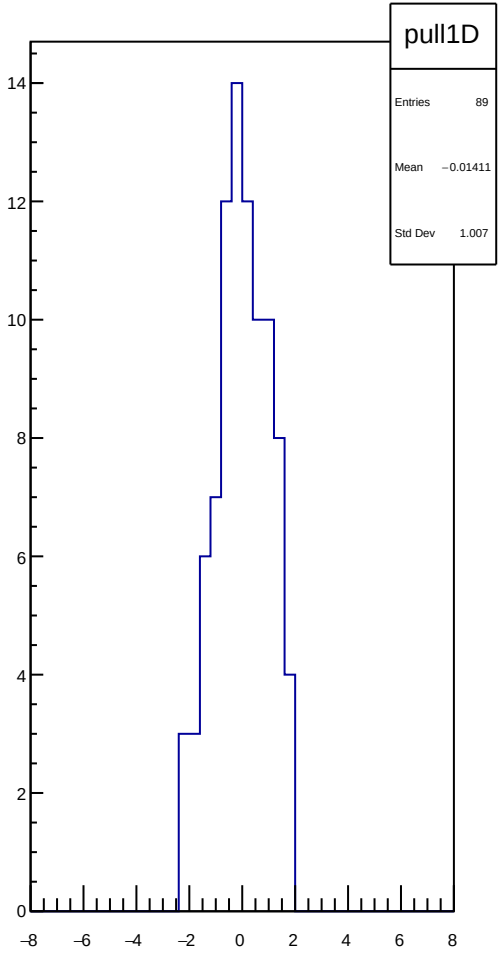

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 114.8 / 88
p0 2176 ± 1.655
2240
2220
2200
2180
2160
2140
2120
2100

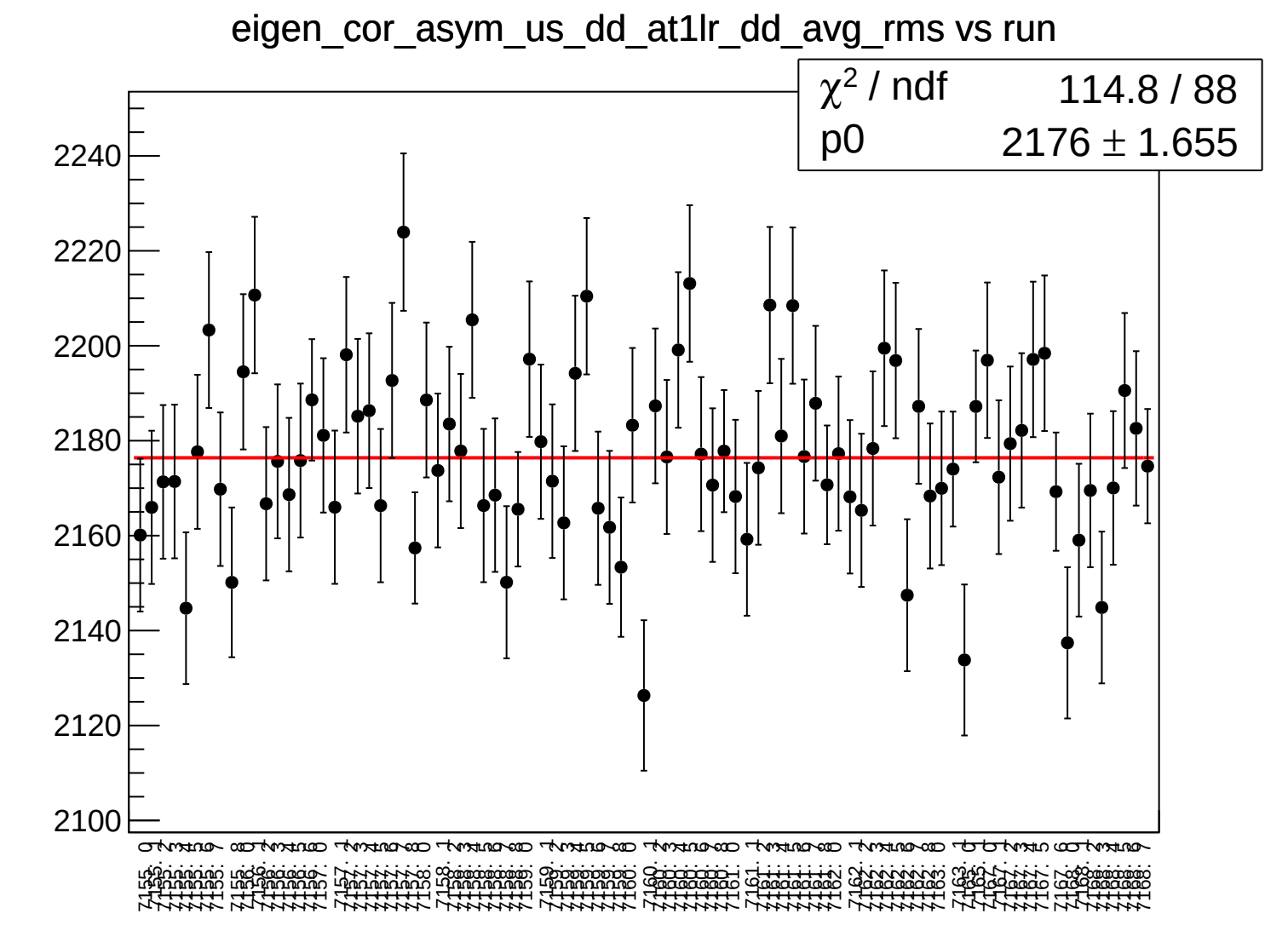

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 68.48 / 88
p0 68.87 ± 171.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 27.27
Std Dev 81.37
2
1.5
1
0.5
0
−0.5
−1
−1.5

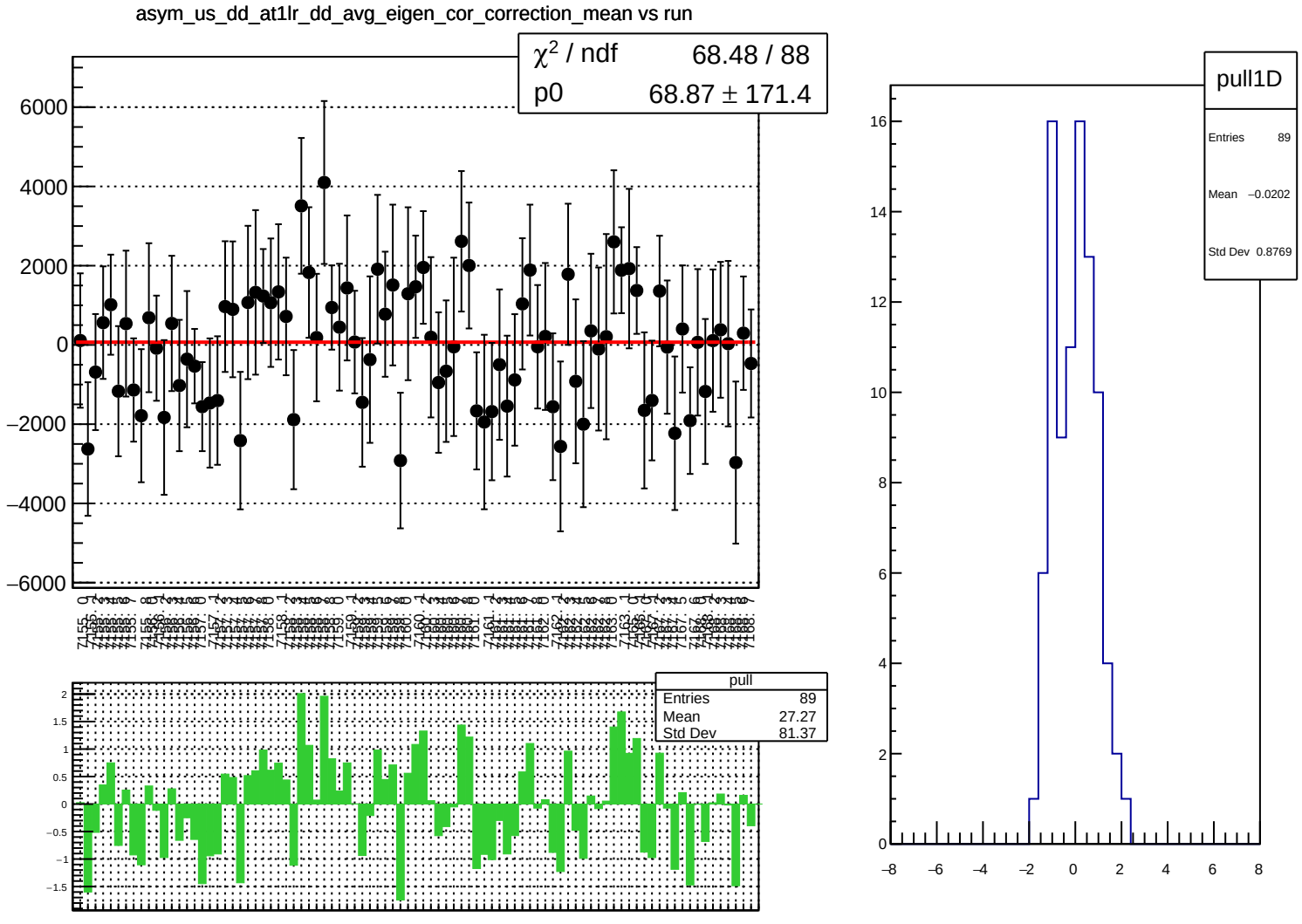

pull1D
Entries 89
Mean −0.0202
Std Dev 0.8769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

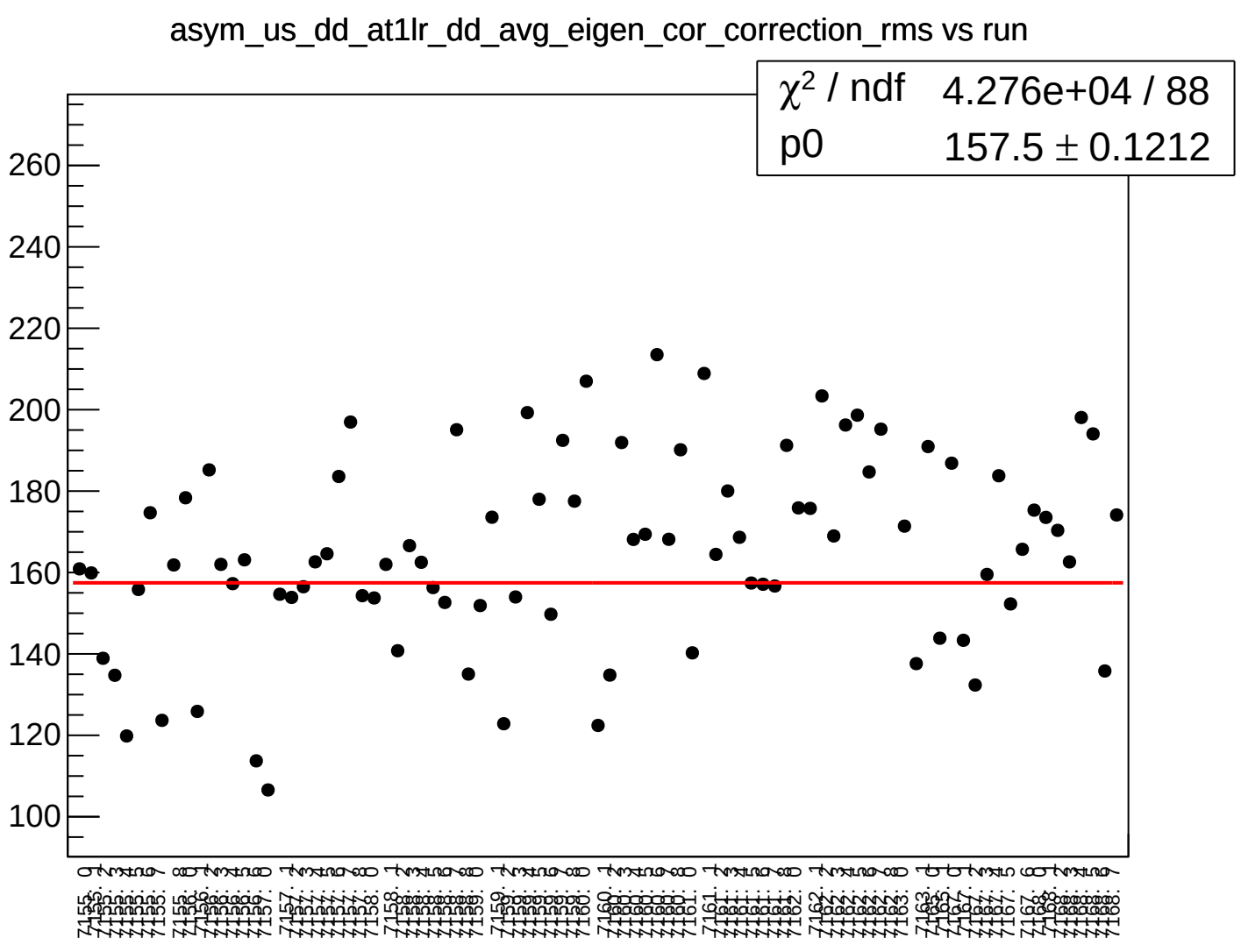

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 4.276e+04 / 88
p0 157.5 ± 0.1212
260
240
220
200
180
160
140
120
100

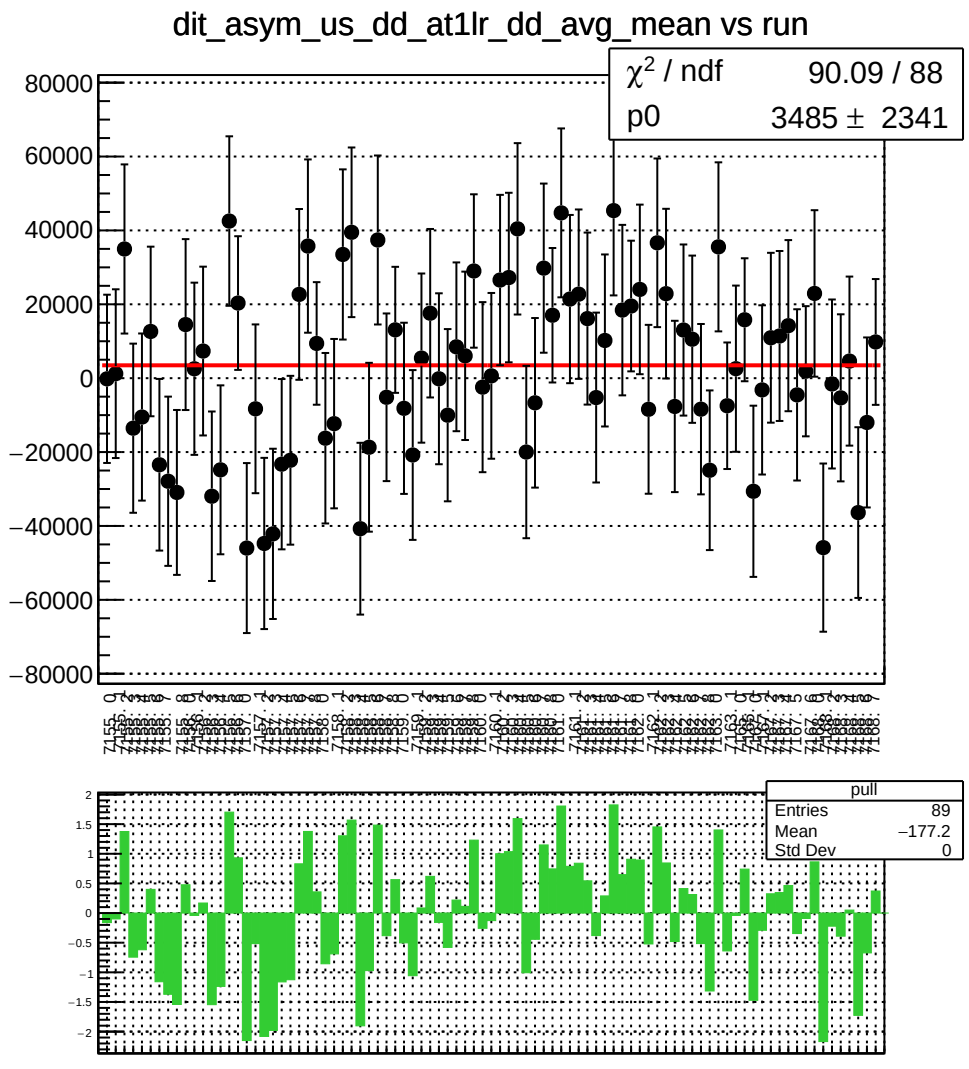

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.28 / 88
p0 3455 ± 2340
pull
Entries 89
Mean −183.3
Std Dev 0

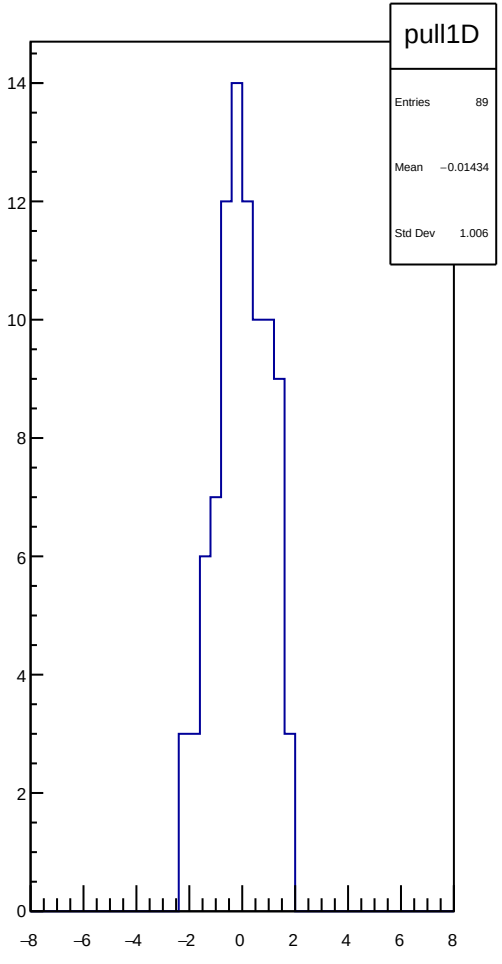

pull1D
Entries 89
Mean −0.01411
Std Dev 1.007

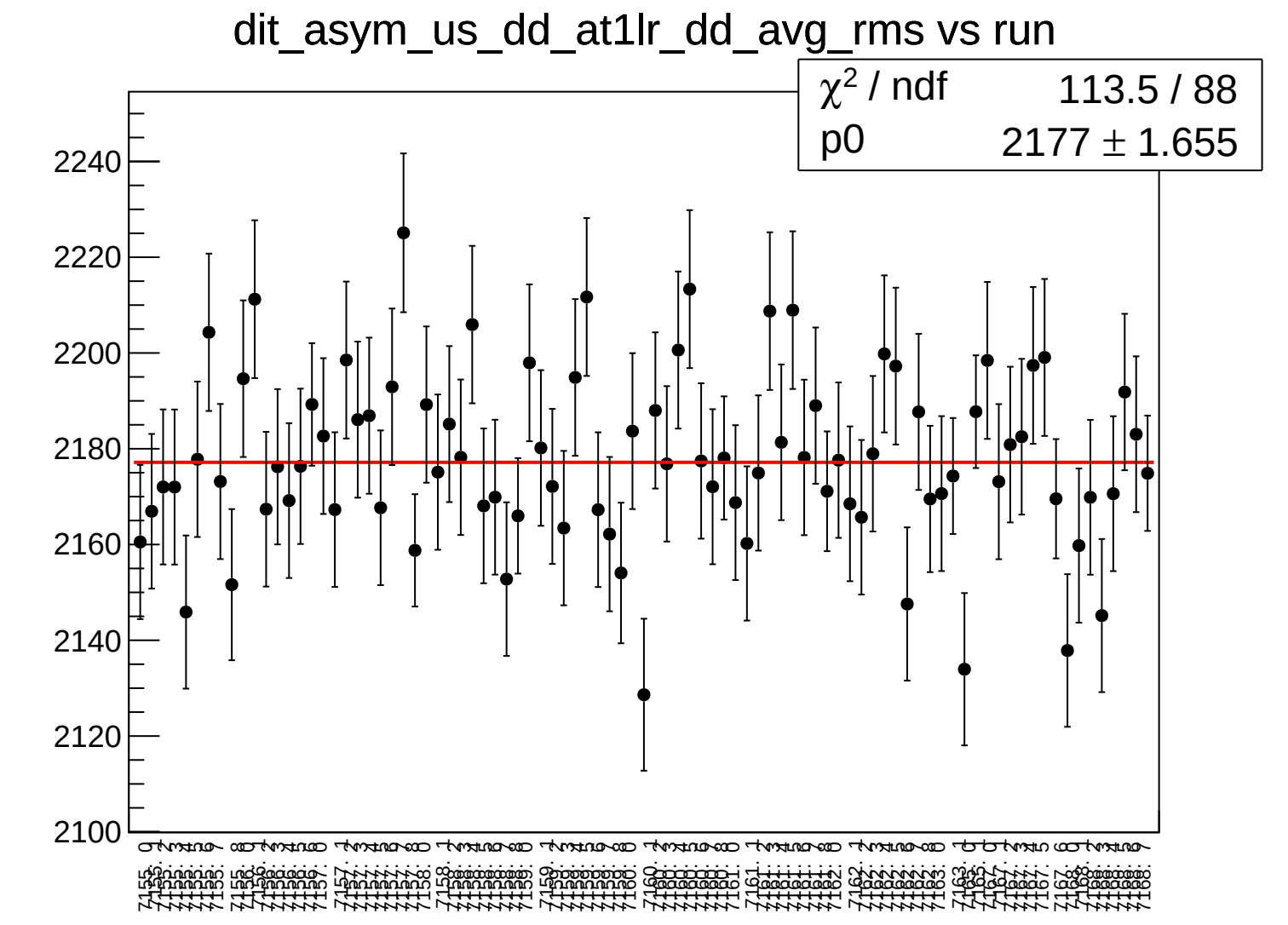

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 114.8 / 88
p0 2176 ± 1.655
2240
2220
2200
2180
2160
2140
2120
2100

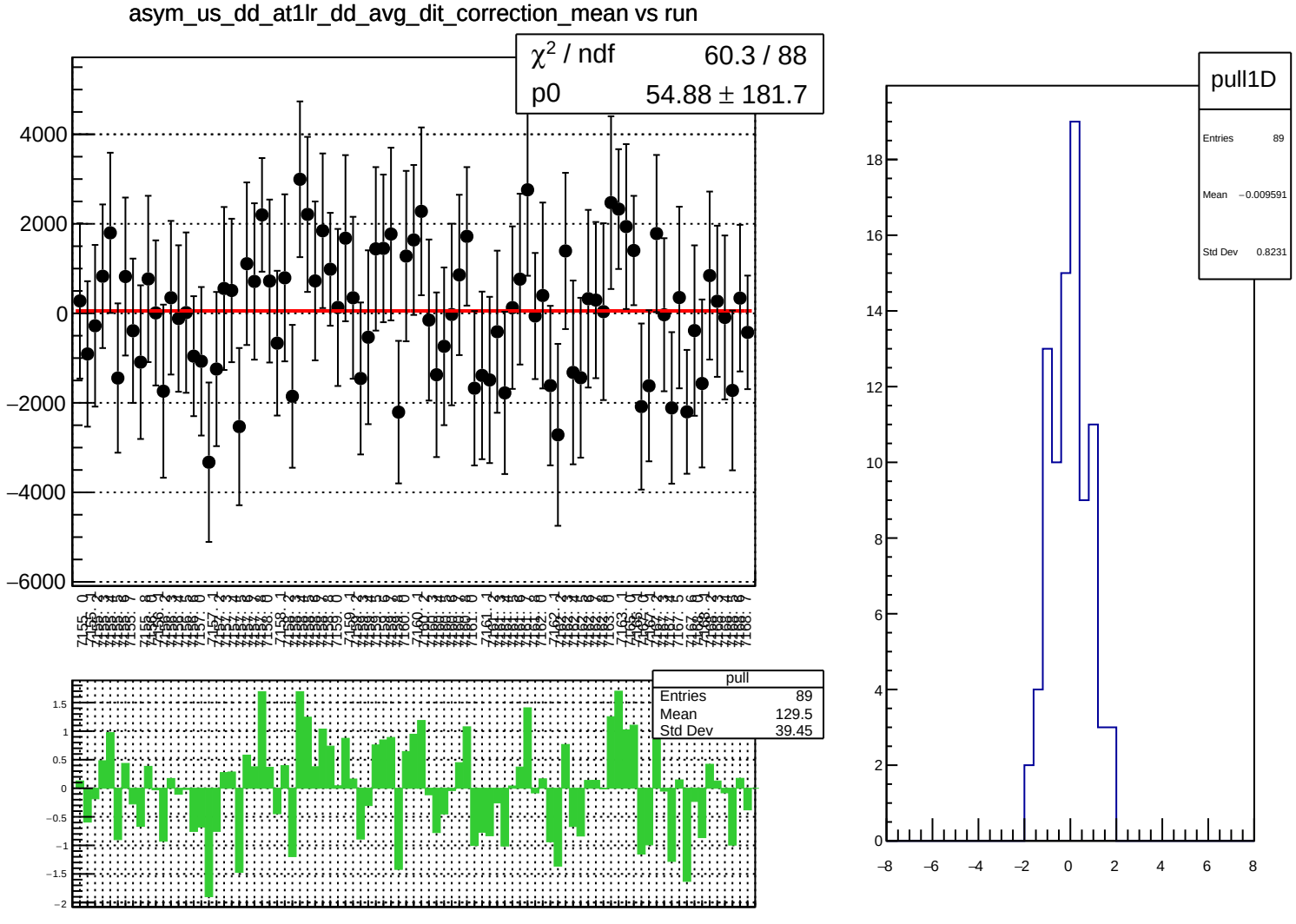

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 68.48 / 88
p0 68.87 ± 171.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 27.27
Std Dev 81.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.0202
Std Dev 0.8769
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

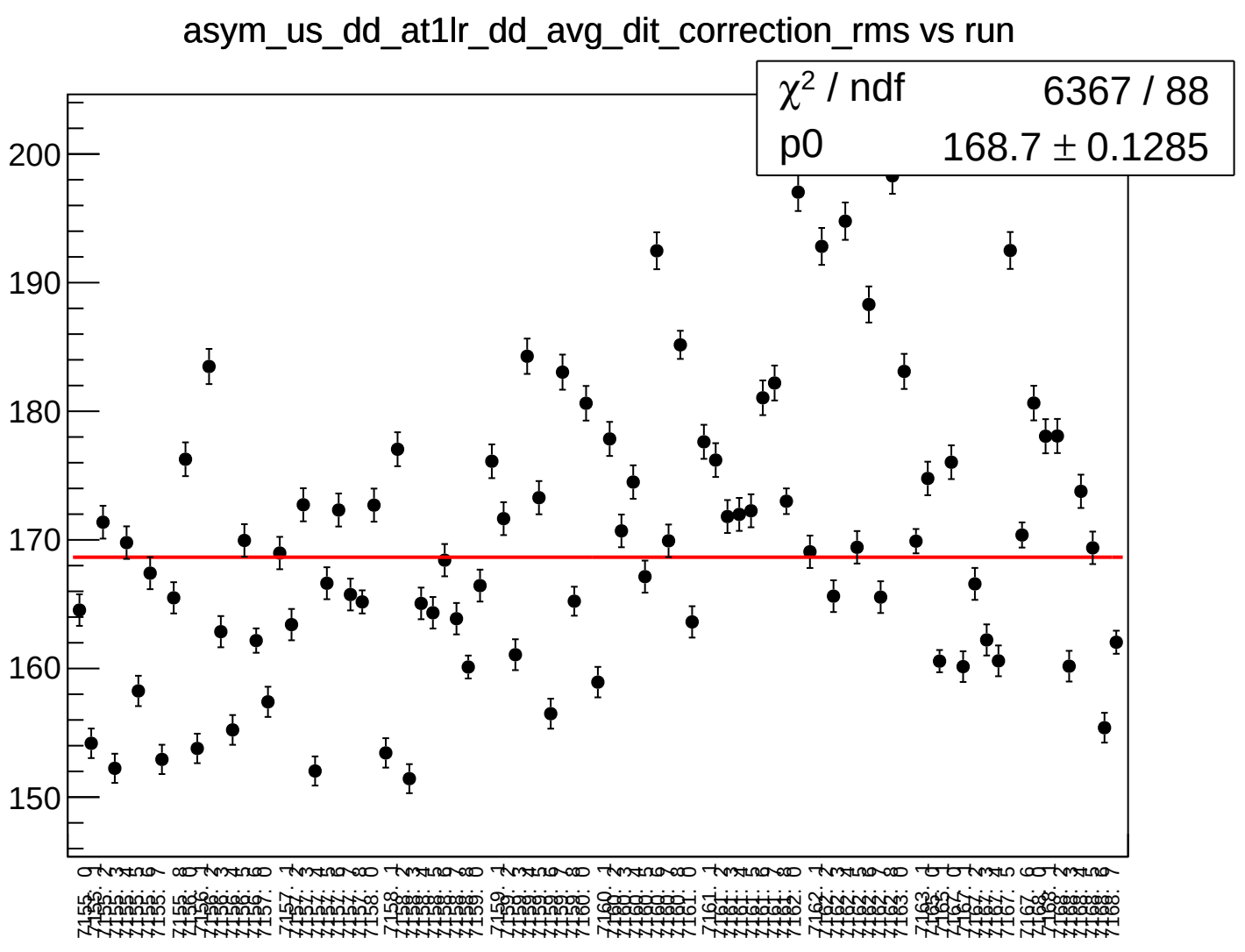

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.276e+04 / 88
p0 157.5 ± 0.1212
260
240
220
200
180
160
140
120
100

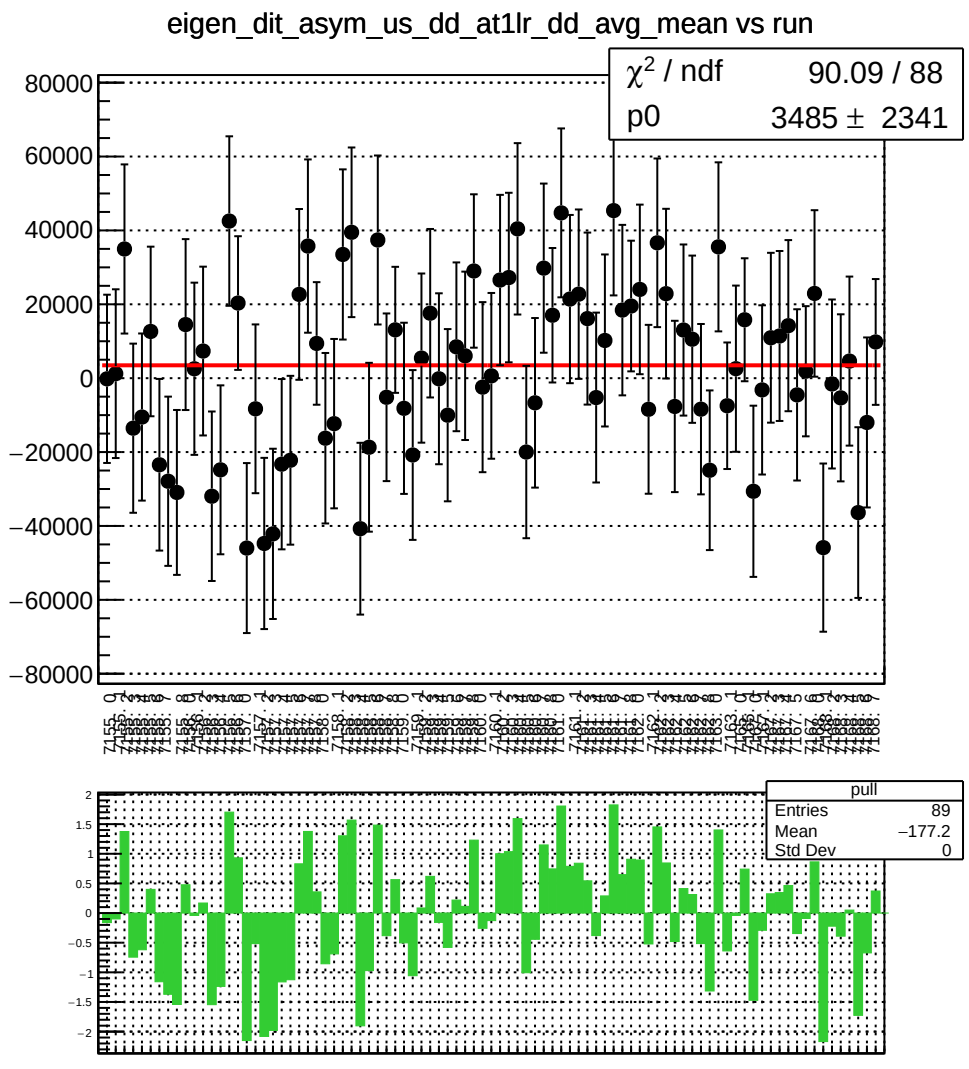

dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.09 / 88
p0 3485 ± 2341
pull
Entries 89
Mean −177.2
Std Dev 0

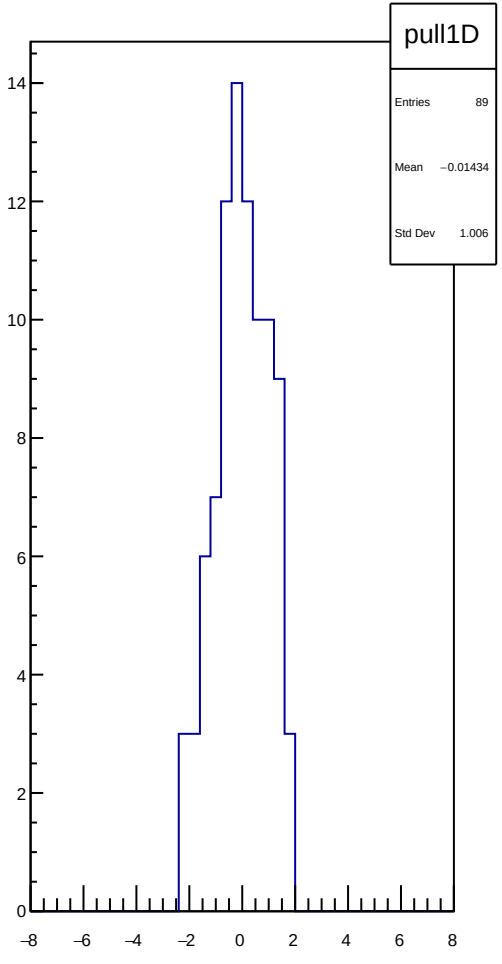

pull1D
Entries 89
Mean −0.01434
Std Dev 1.006

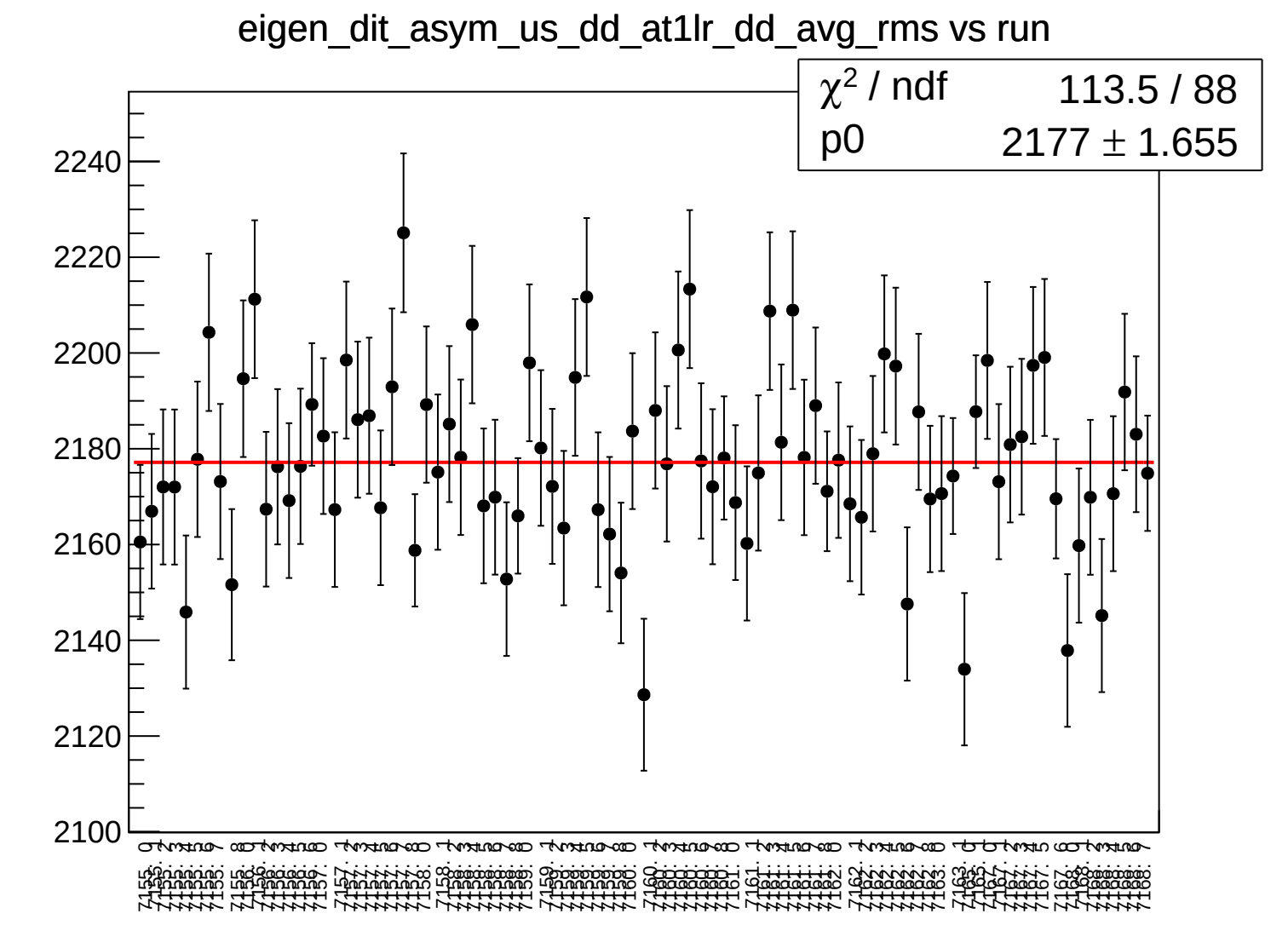

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 113.5 / 88
p0 2177 ± 1.655
2240
2220
2200
2180
2160
2140
2120
2100

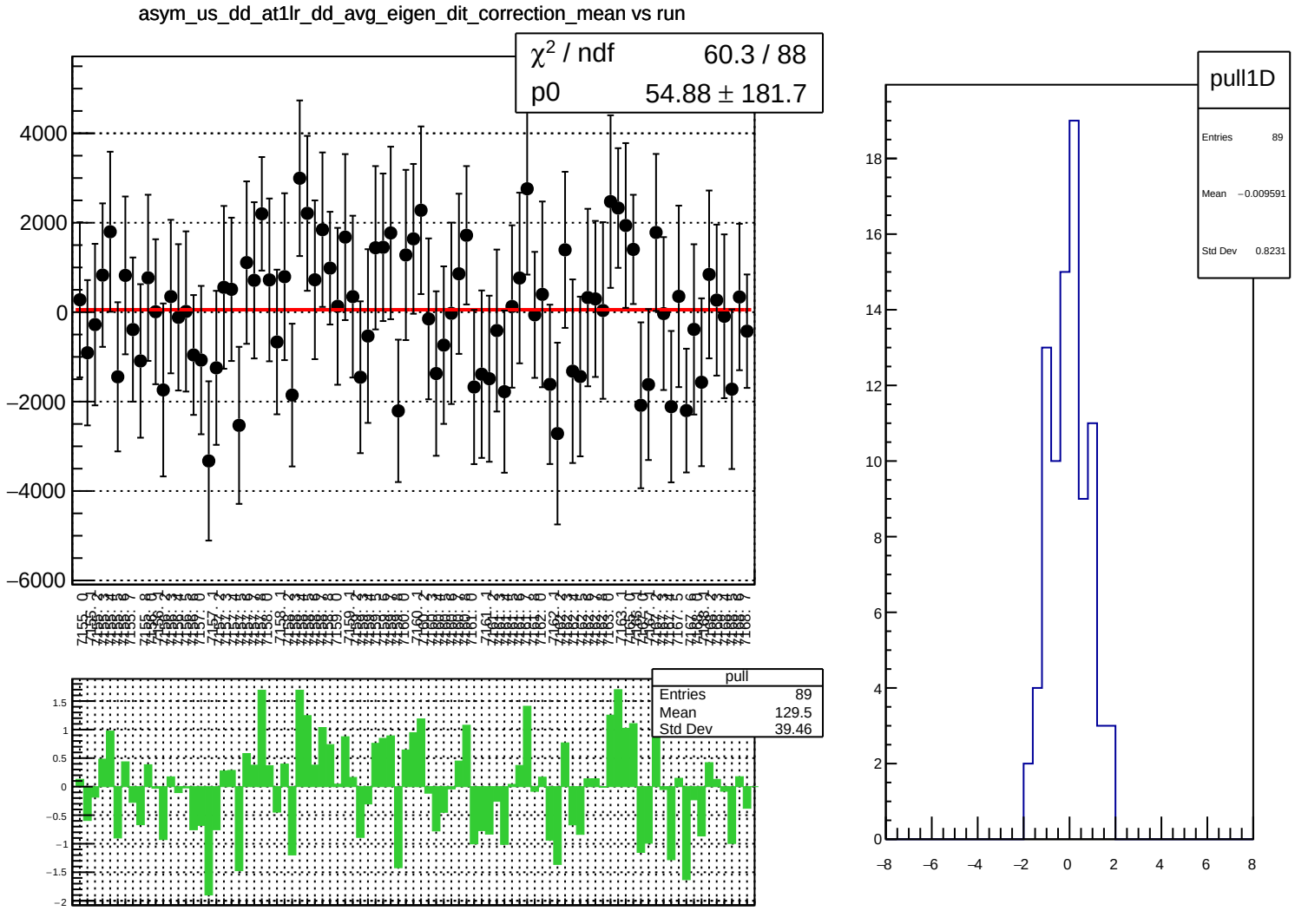

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 60.3 / 88
p0 54.88 ± 181.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 129.5
Std Dev 39.45
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.009591
Std Dev 0.8231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

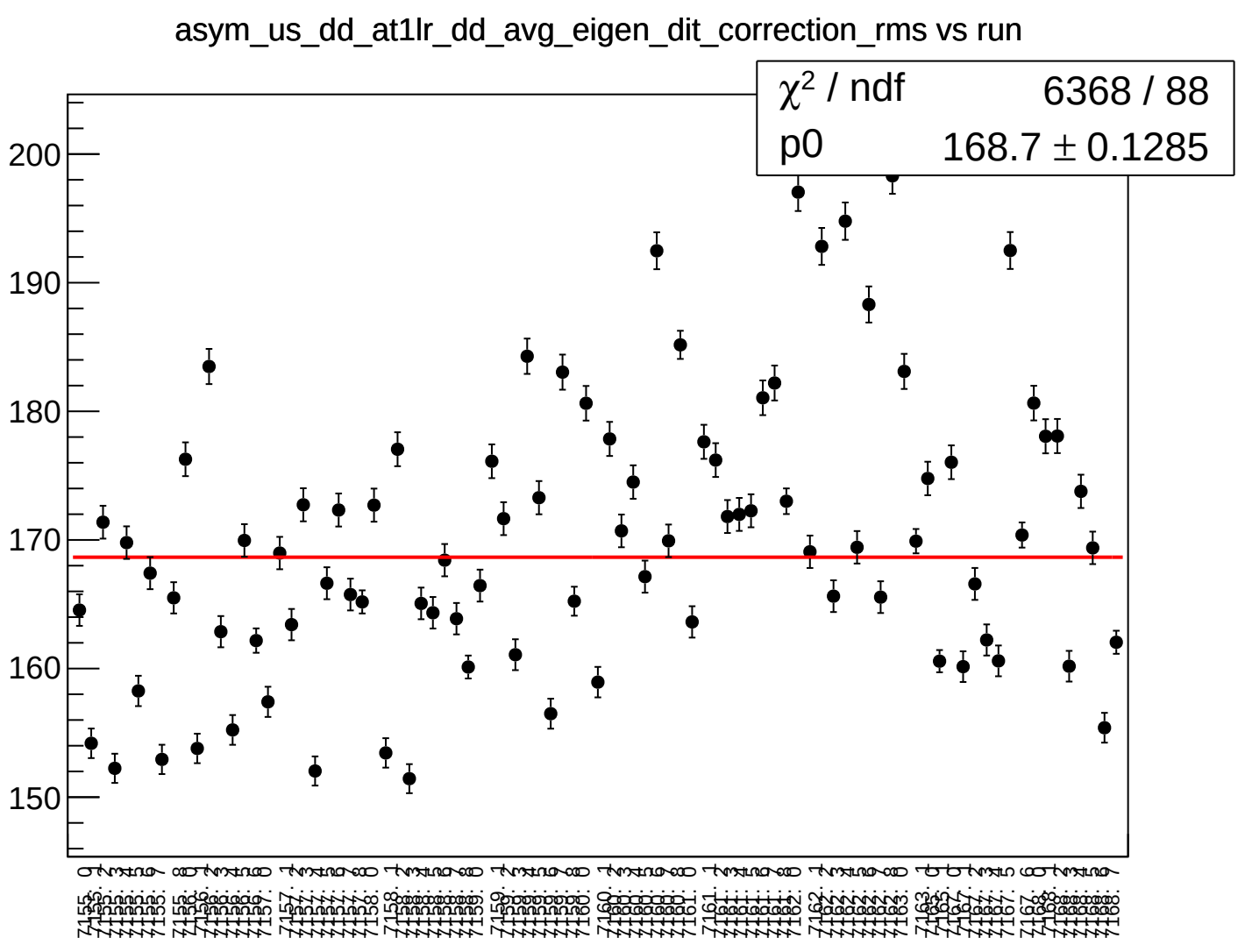

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6367 / 88
p0 168.7 ± 0.1285
200
190
180
170
160
150

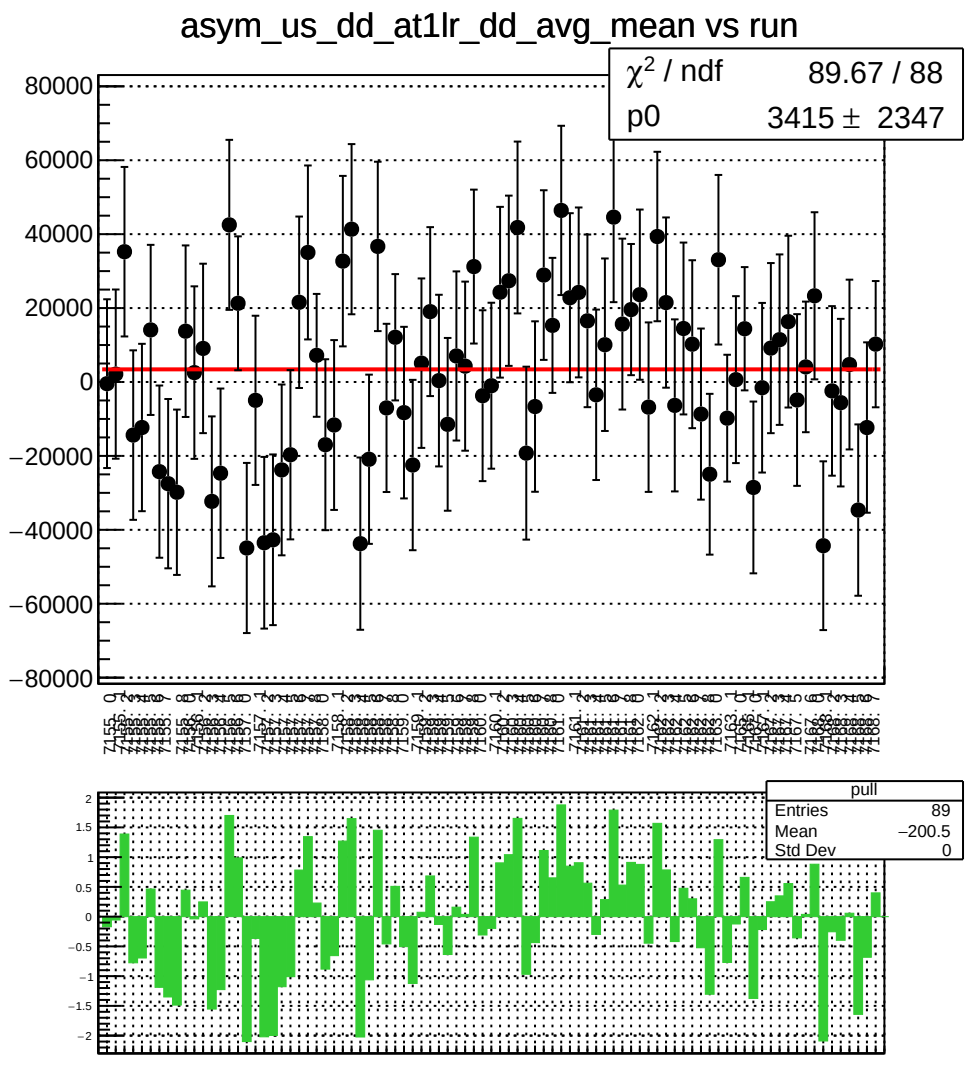

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 90.09 / 88
p0 3485 ± 2341
pull
Entries 89
Mean −177.2
Std Dev 0

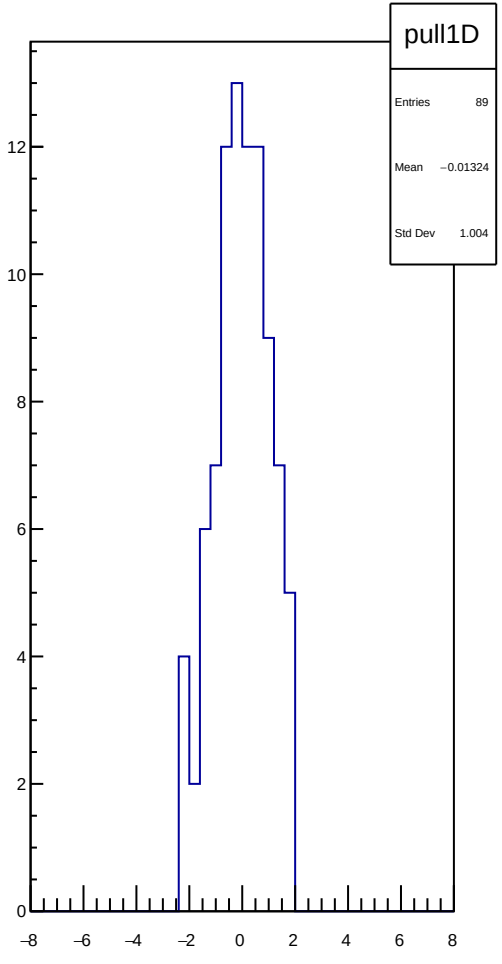

pull1D
Entries 89
Mean −0.01434
Std Dev 1.006

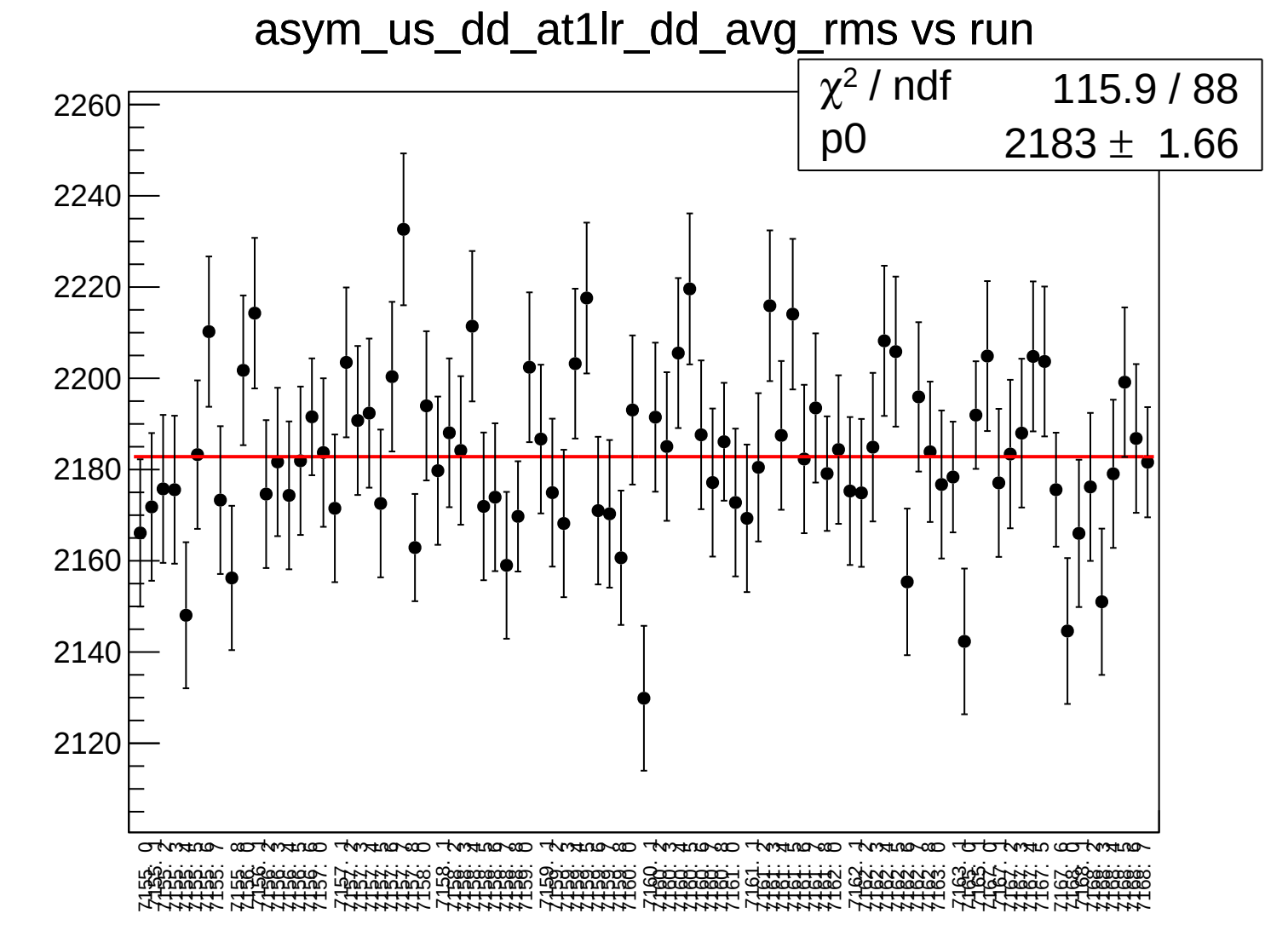

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 113.5 / 88
p0 2177 ± 1.655
2240
2220
2200
2180
2160
2140
2120
2100

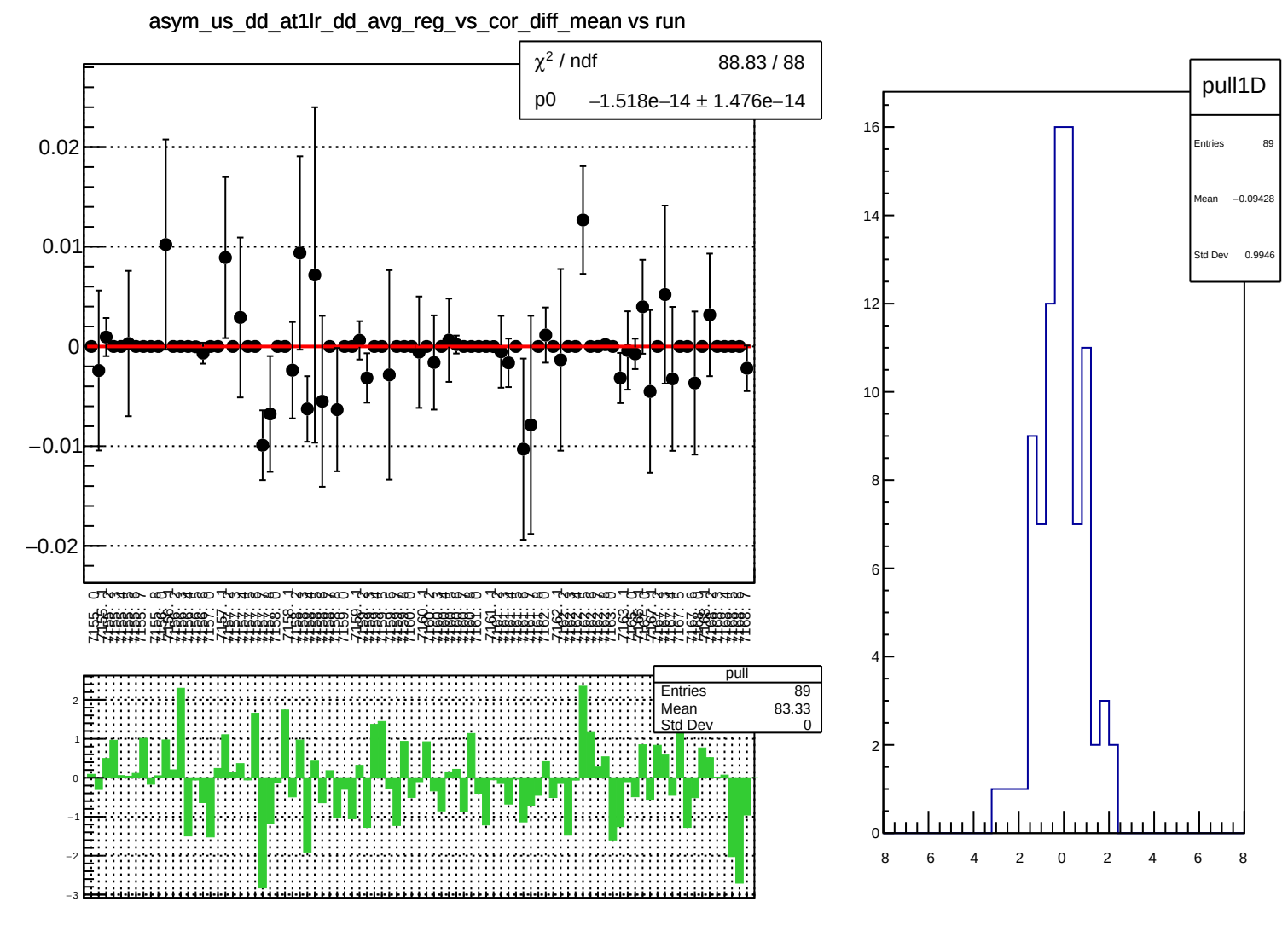

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 60.3 / 88
p0 54.88 ± 181.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 129.5
Std Dev 39.46
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.009591
Std Dev 0.8231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

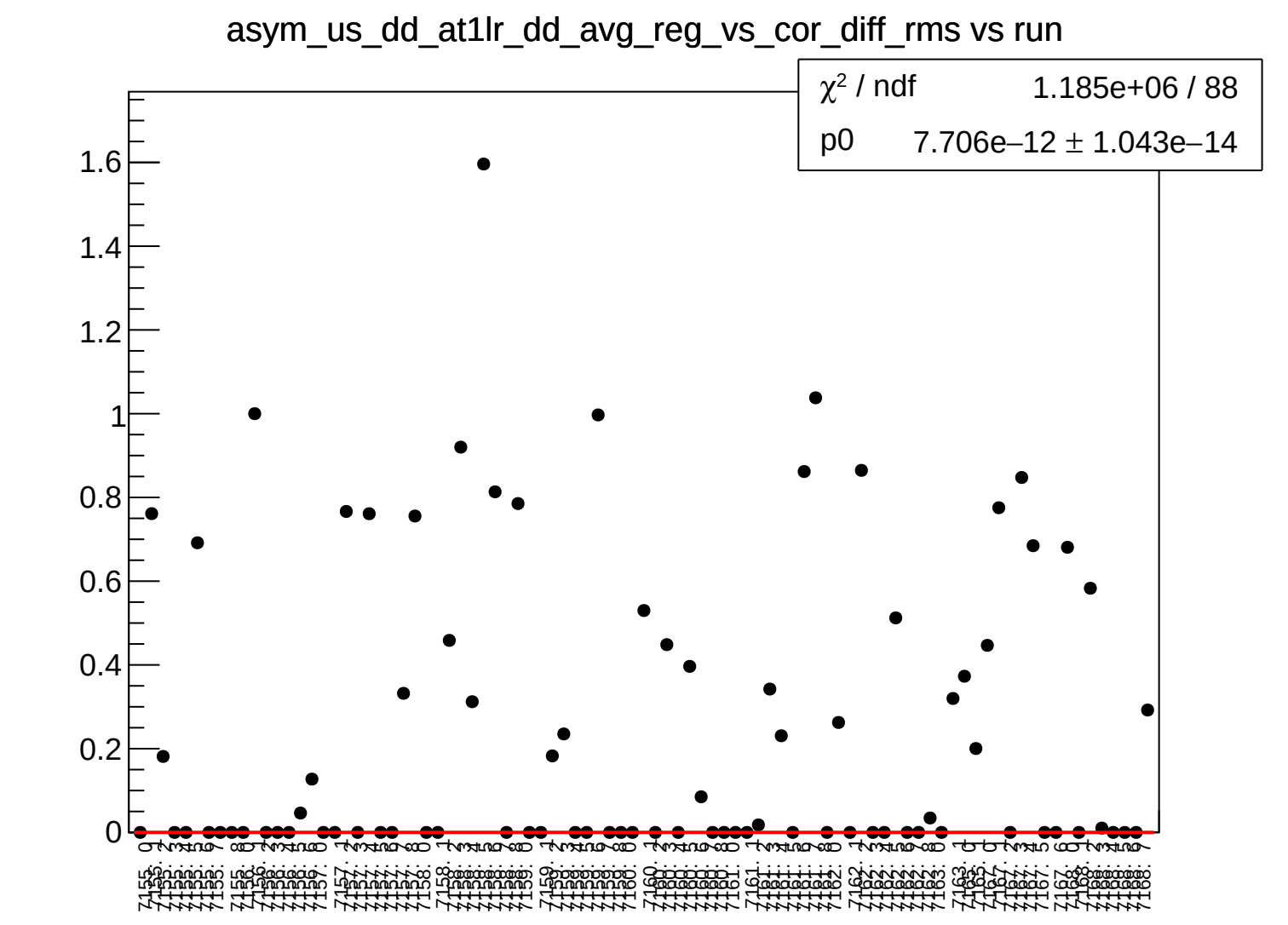

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6368 / 88
p0 168.7 ± 0.1285
200
190
180
170
160
150

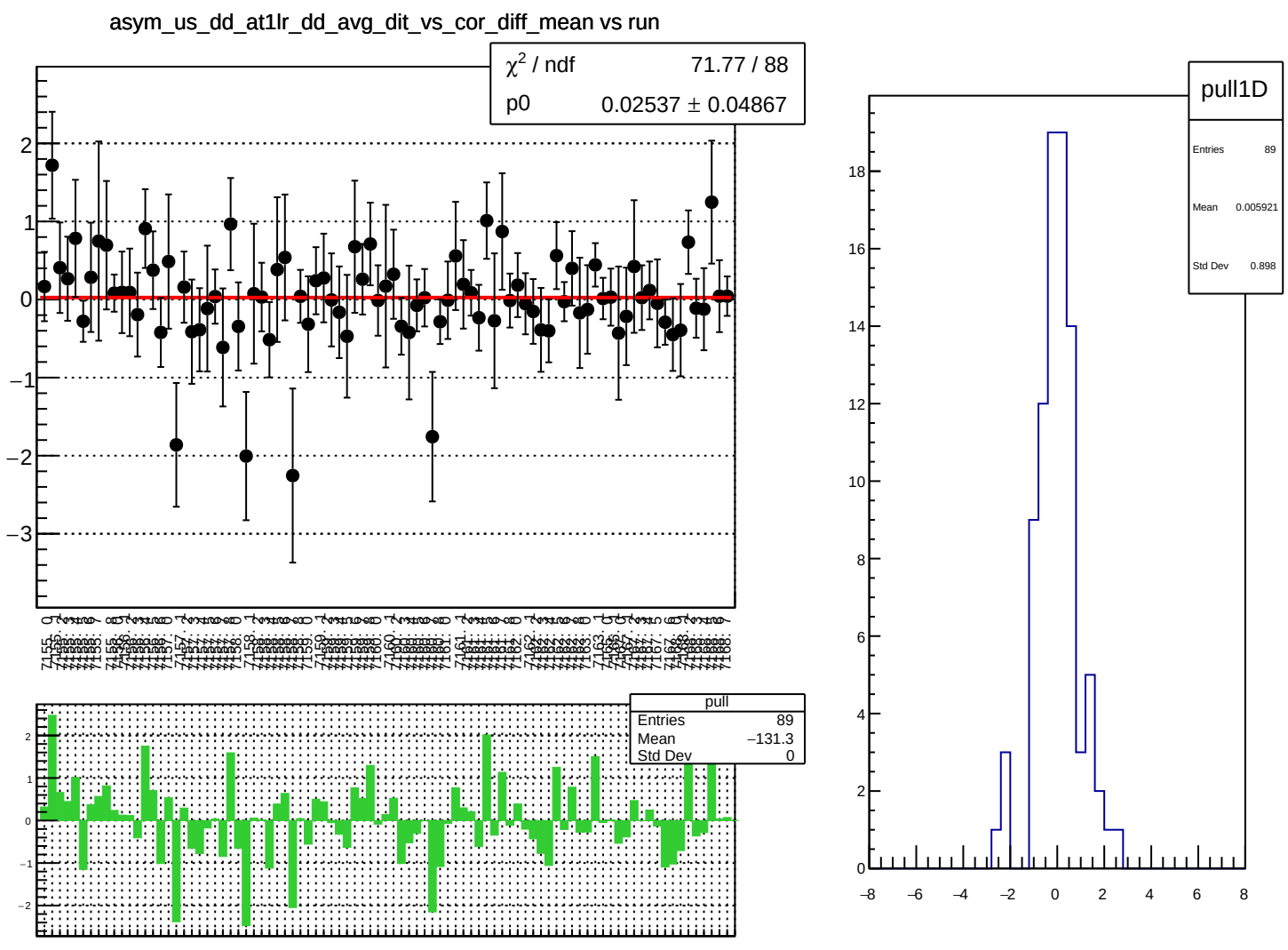

asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 89.67 / 88
p0 3415 ± 2347
pull
Entries 89
Mean −200.5
Std Dev 0

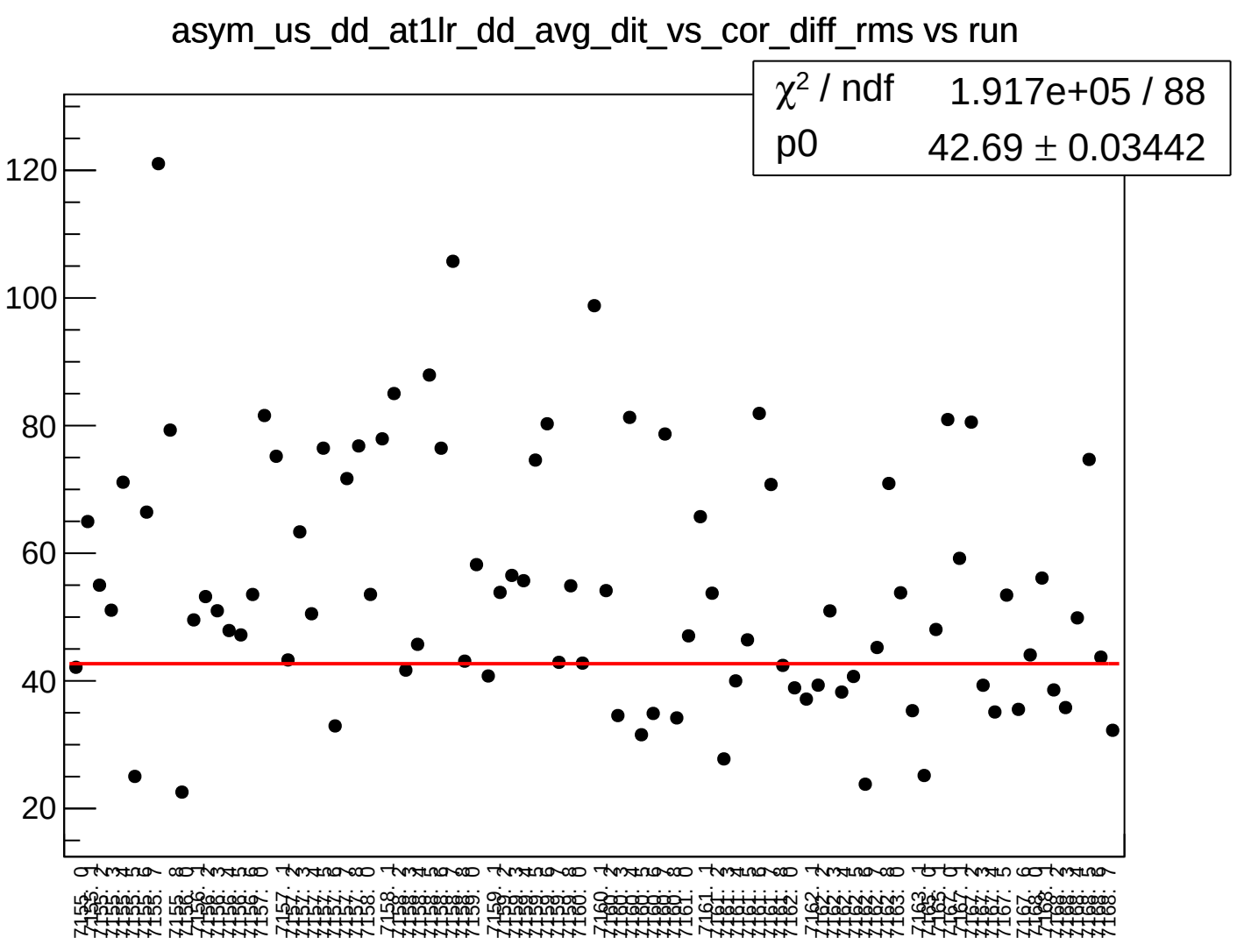

pull1D
Entries 89
Mean −0.01324
Std Dev 1.004

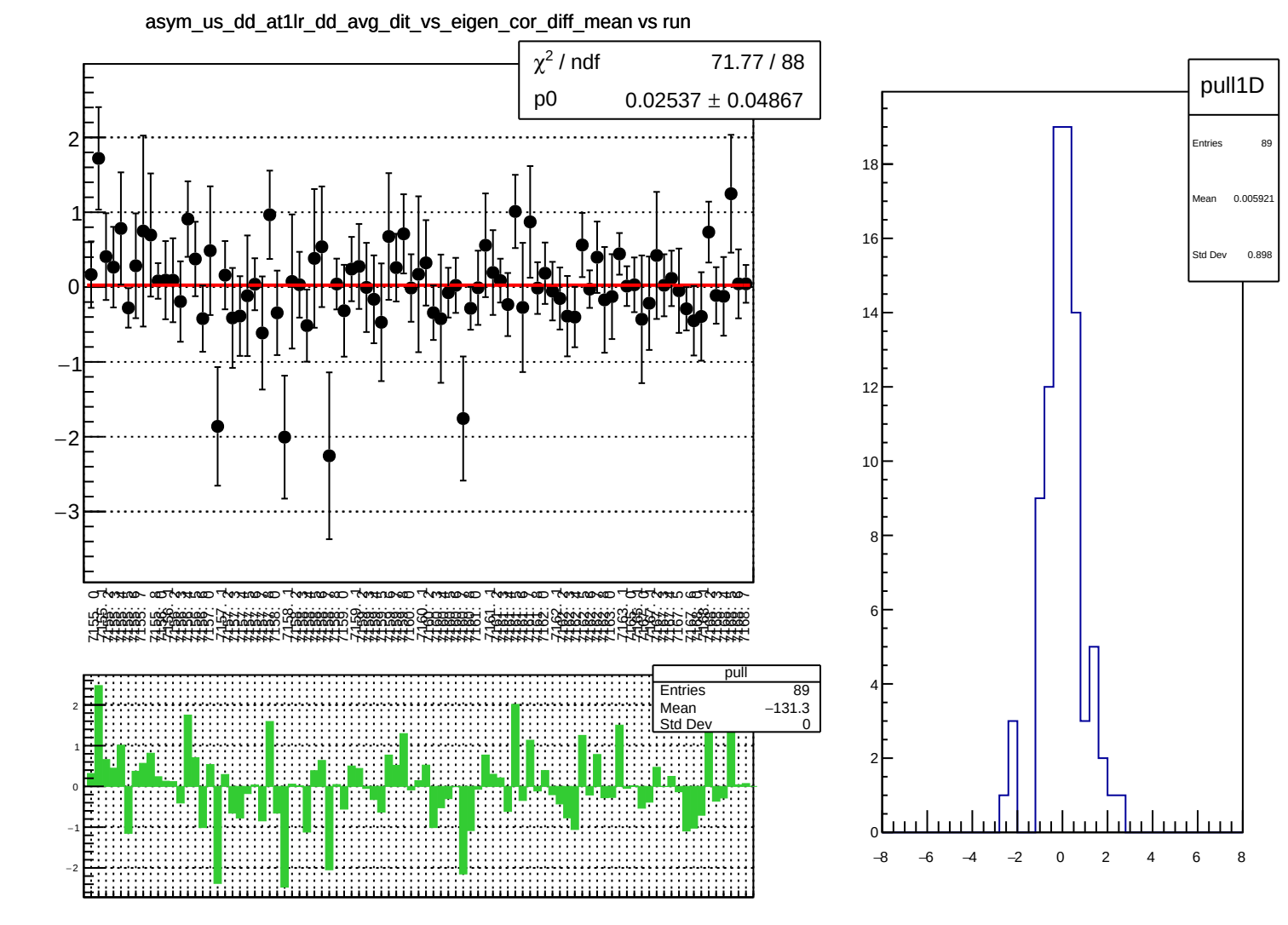

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 115.9 / 88
p0 2183 ± 1.66
2260
2240
2220
2200
2180
2160
2140
2120

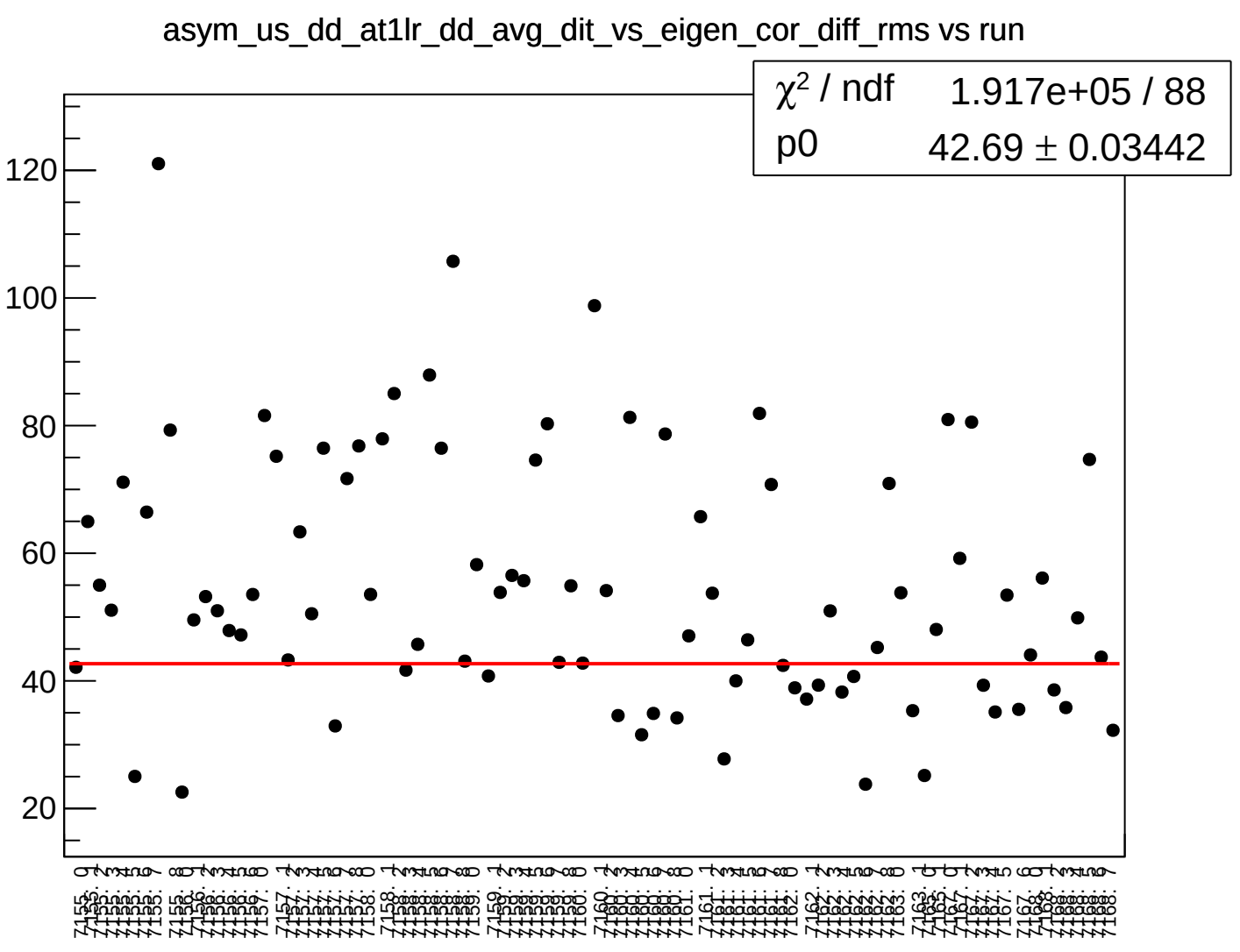

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.83 / 88
p0 −1.518e−14 ± 1.476e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 83.33
Std Dev 0
pull1D
Entries 89
Mean −0.09428
Std Dev 0.9946

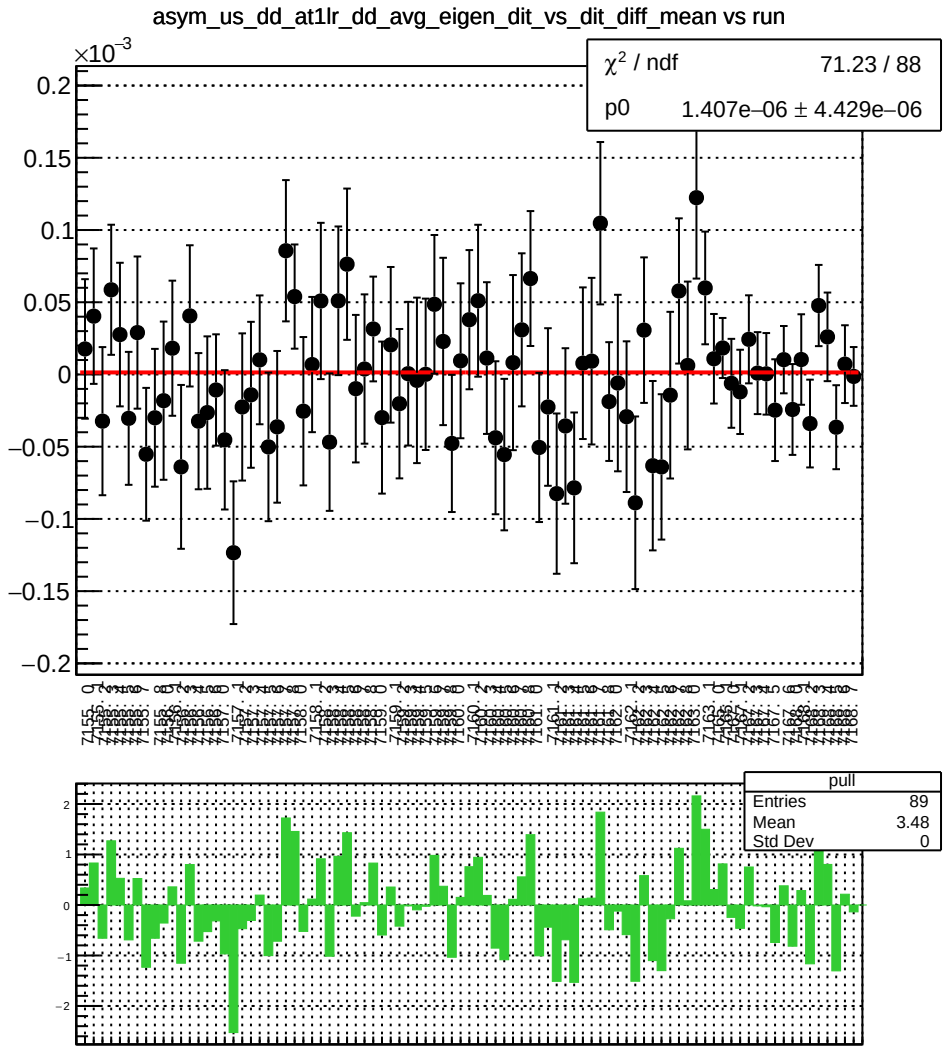

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 88
p0 7.706e−12 ± 1.043e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

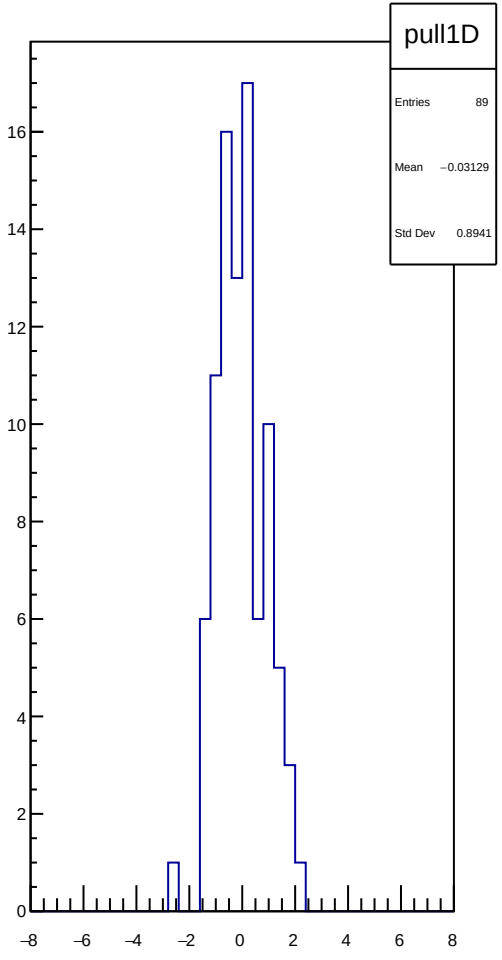

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.77 / 88
p0 0.02537 ± 0.04867
pull
Entries 89
Mean −131.3
Std Dev 0
pull1D
Entries 89
Mean 0.005921
Std Dev 0.898

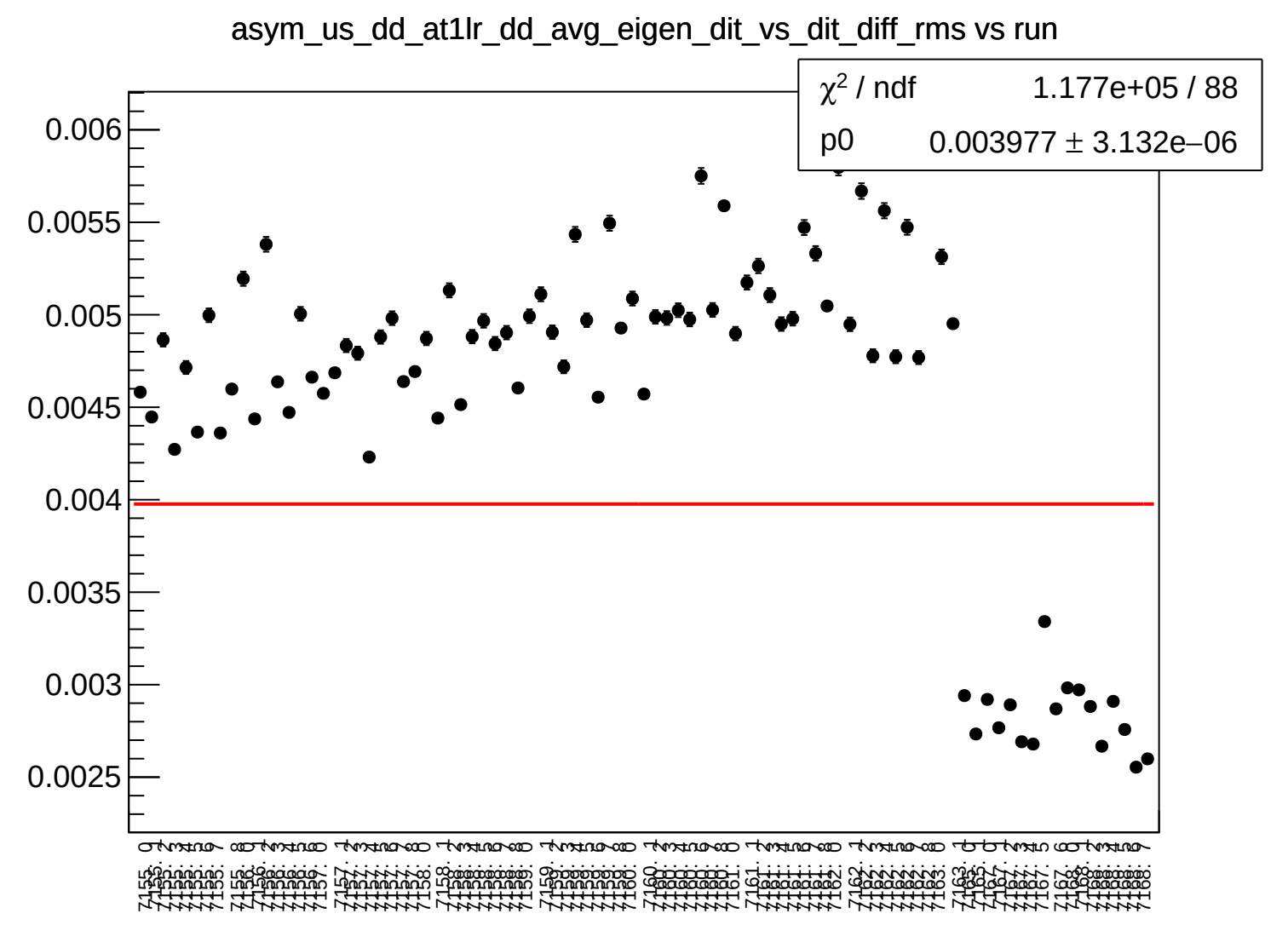

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 88
p0 42.69 ± 0.03442
120
100
80
60
40
20

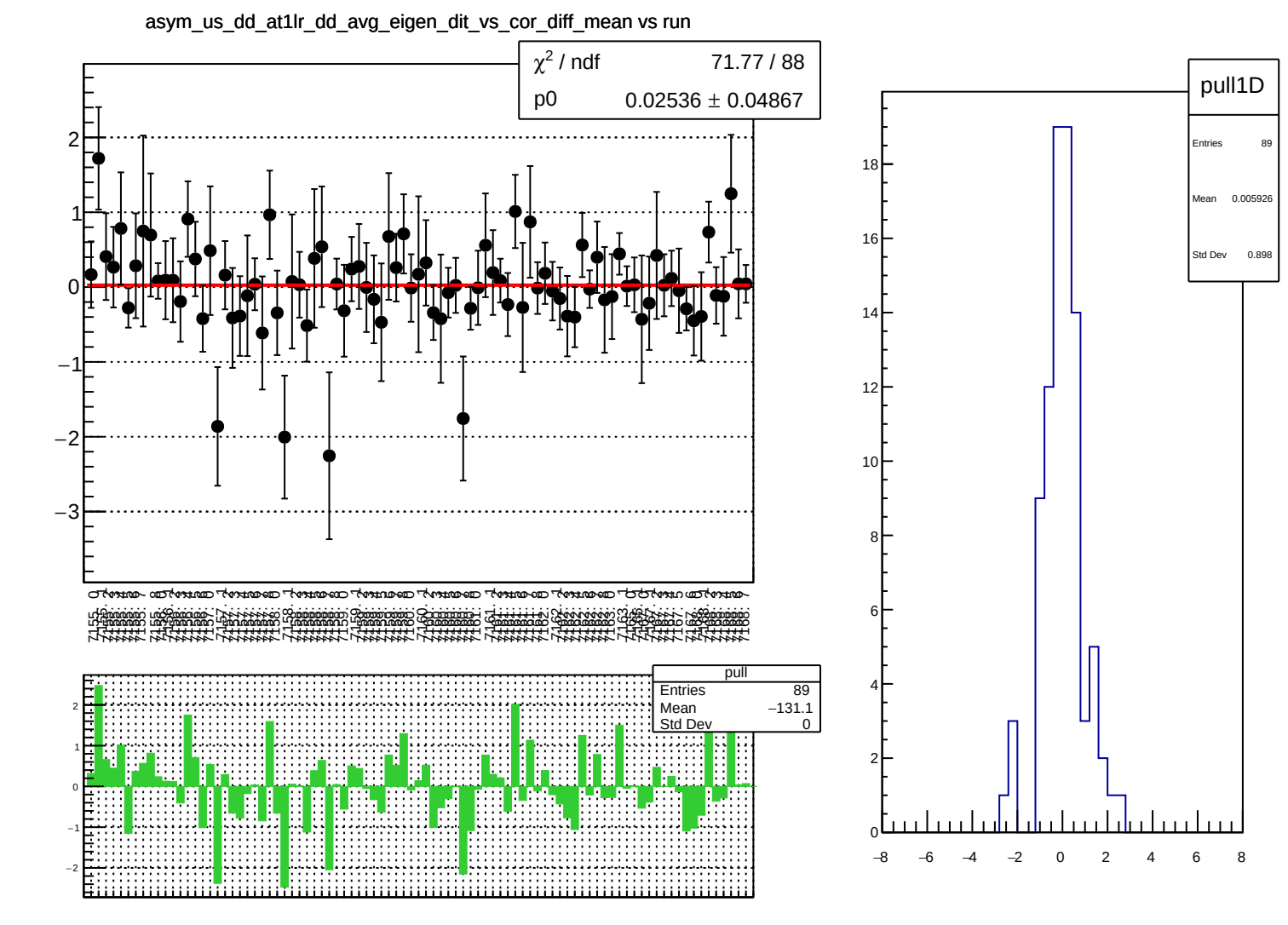

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.77 / 88
p0 0.02537 ± 0.04867
pull
Entries 89
Mean −131.3
Std Dev 0
pull1D
Entries 89
Mean 0.005921
Std Dev 0.898

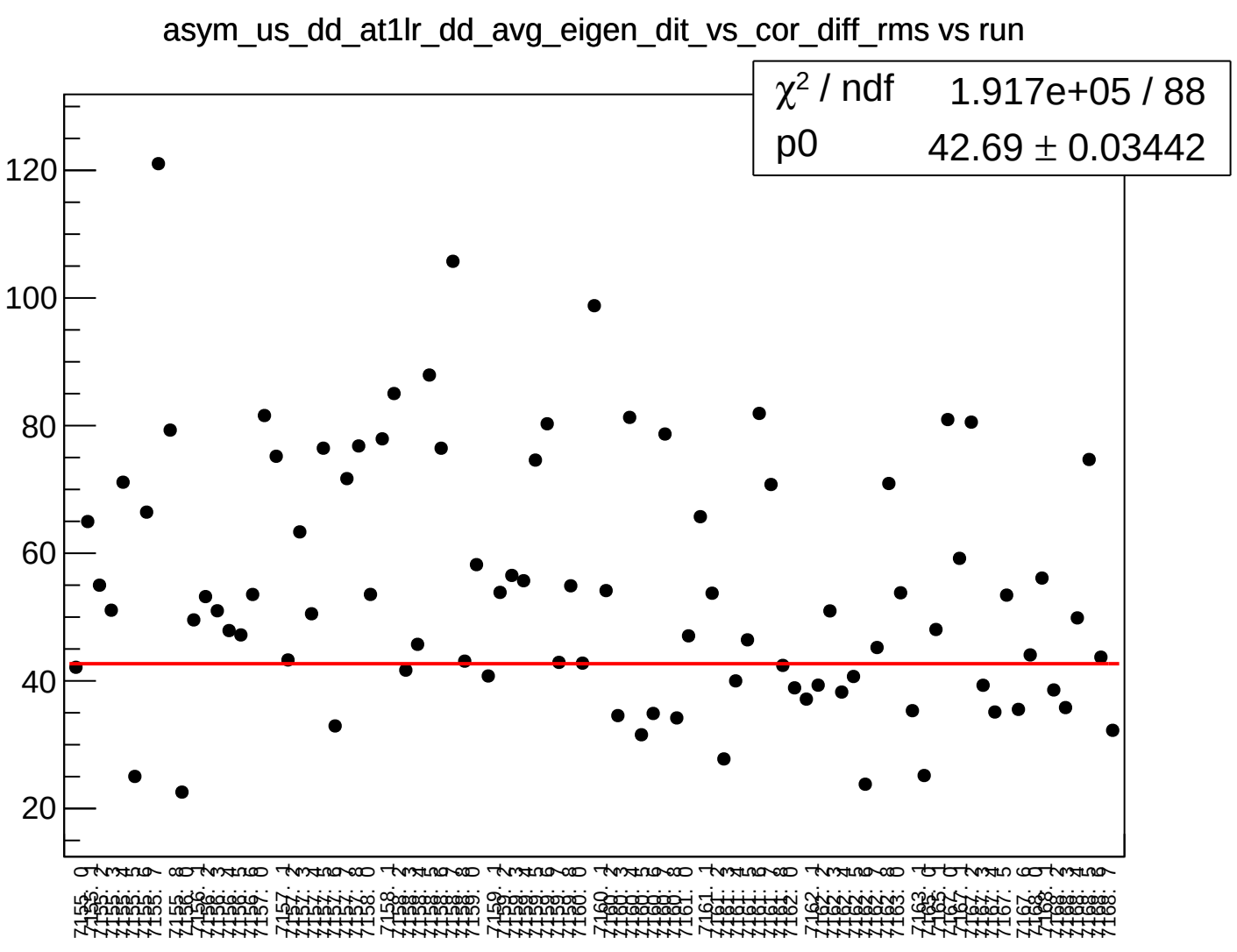

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 88
p0 42.69 ± 0.03442
120
100
80
60
40
20

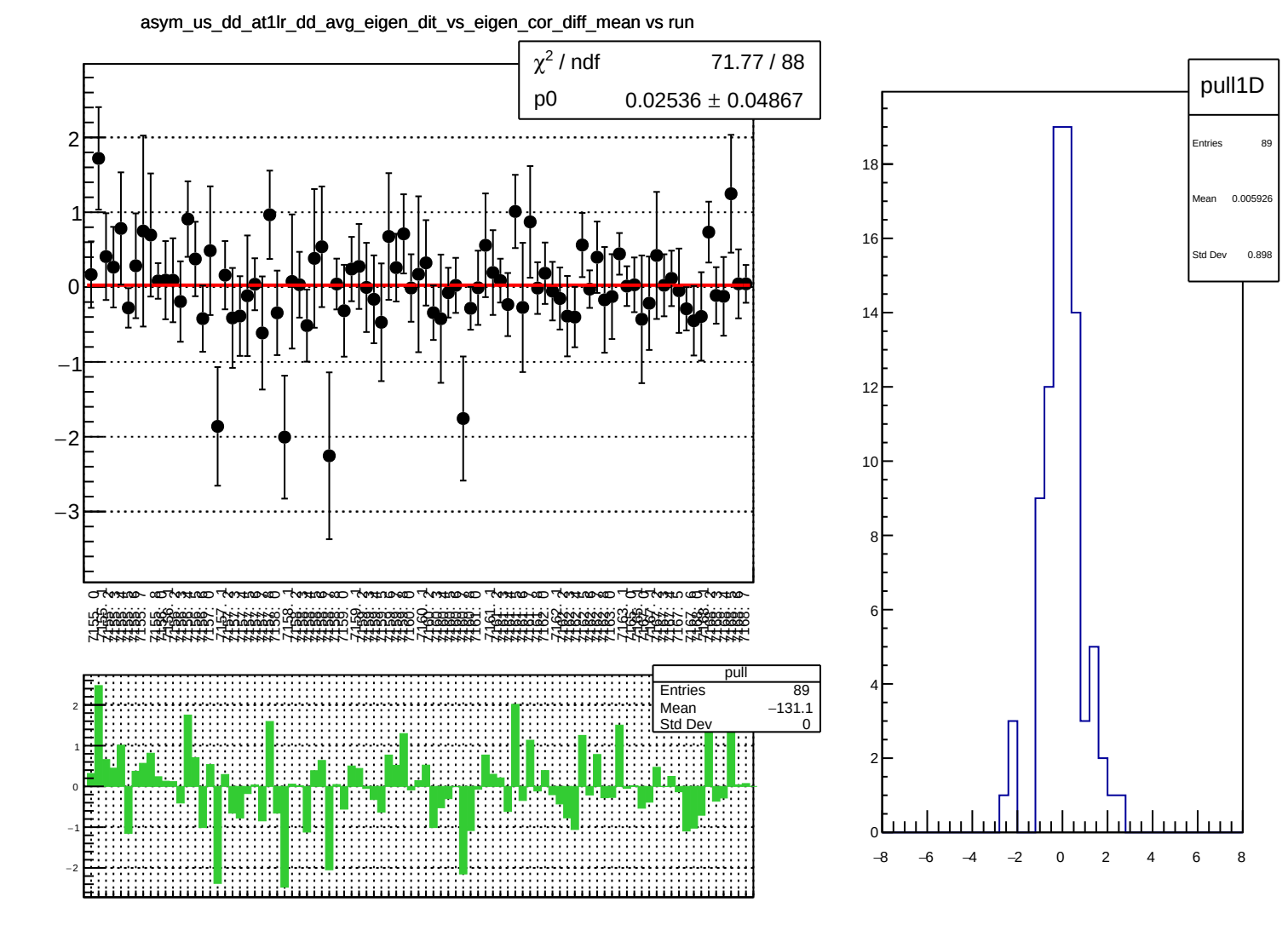

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.23 / 88
p0 1.407e−06 ± 4.429e−06
pull
Entries 89
Mean 3.48
Std Dev 0

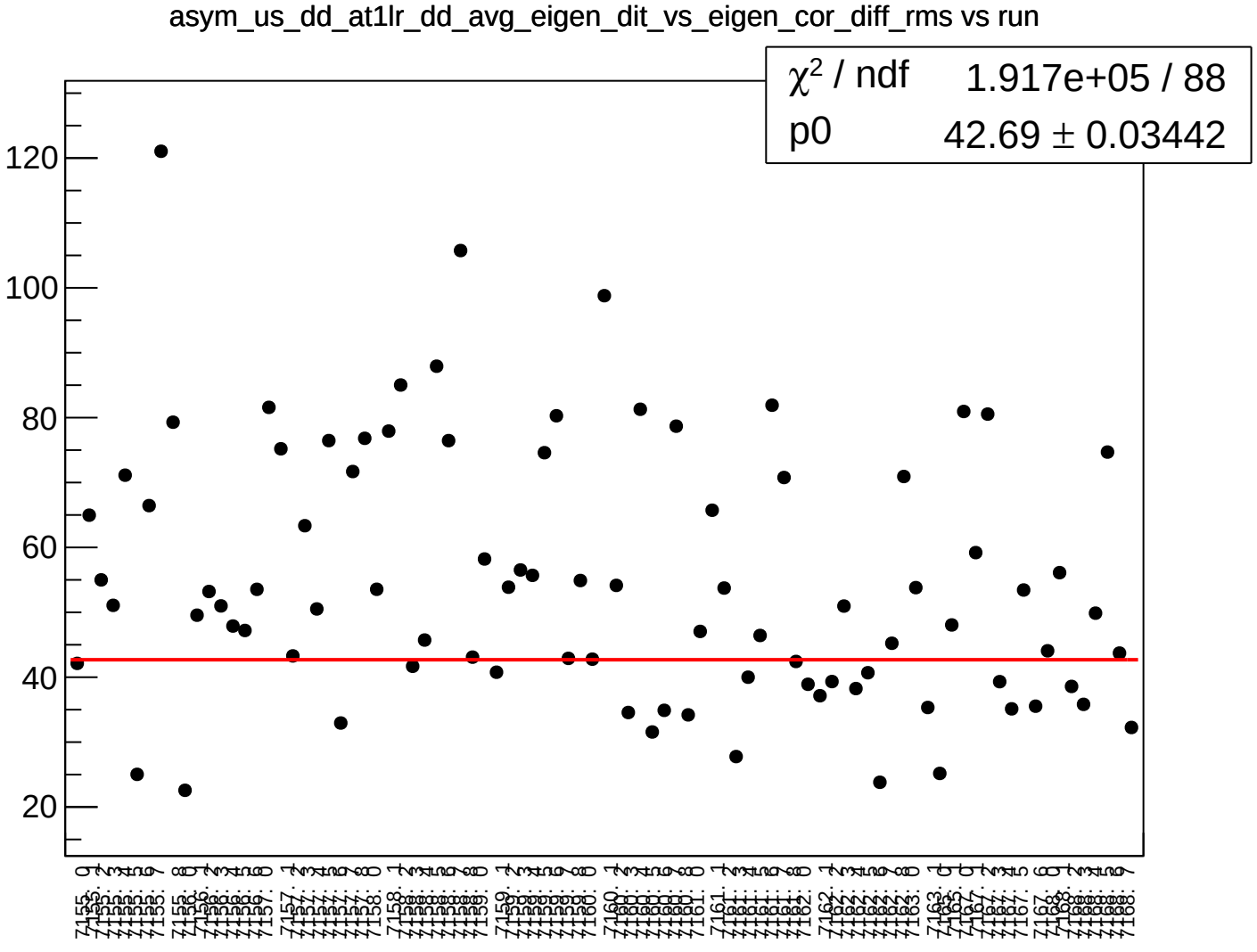

pull1D
Entries 89
Mean −0.03129
Std Dev 0.8941

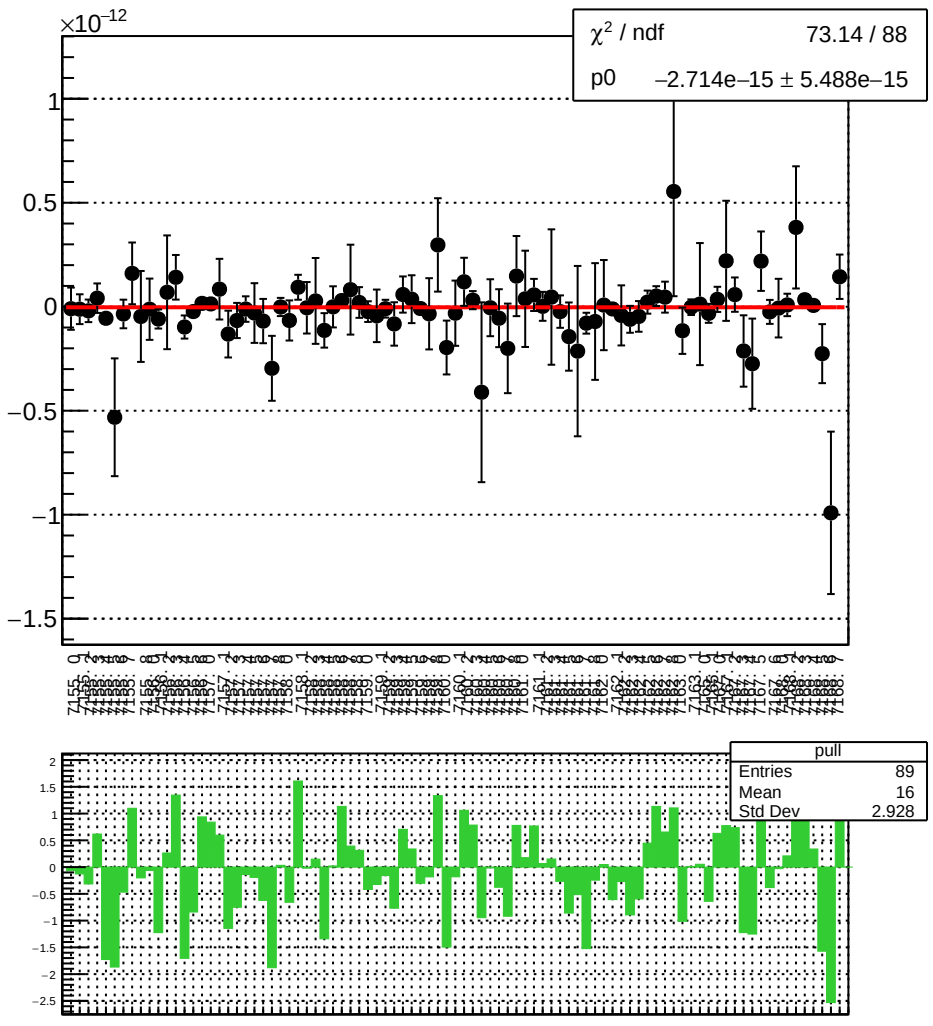

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.177e+05 / 88
p0 0.003977 ± 3.132e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

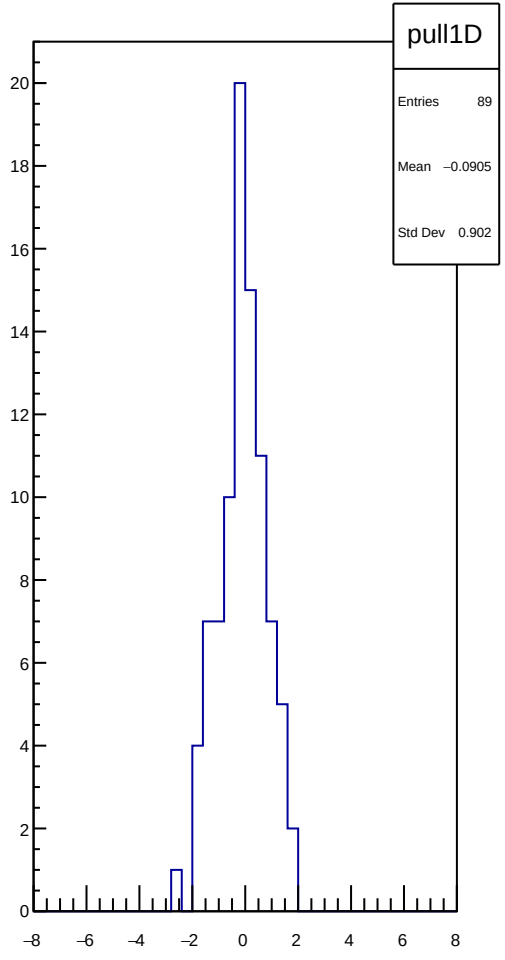

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.77 / 88
p0 0.02536 ± 0.04867
pull
Entries 89
Mean −131.1
Std Dev 0
pull1D
Entries 89
Mean 0.005926
Std Dev 0.898

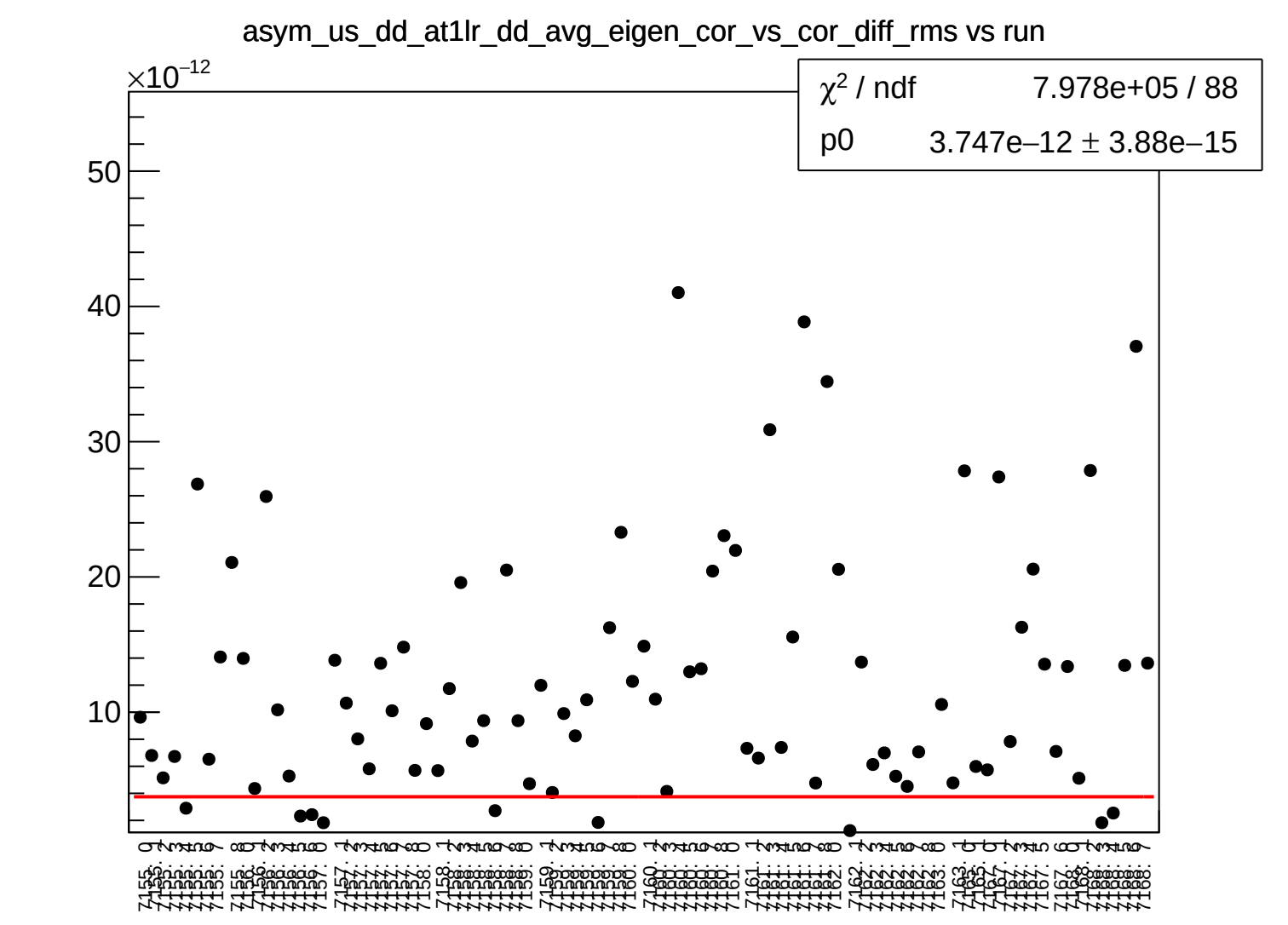

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 88
p0 42.69 ± 0.03442
120
100
80
60
40
20

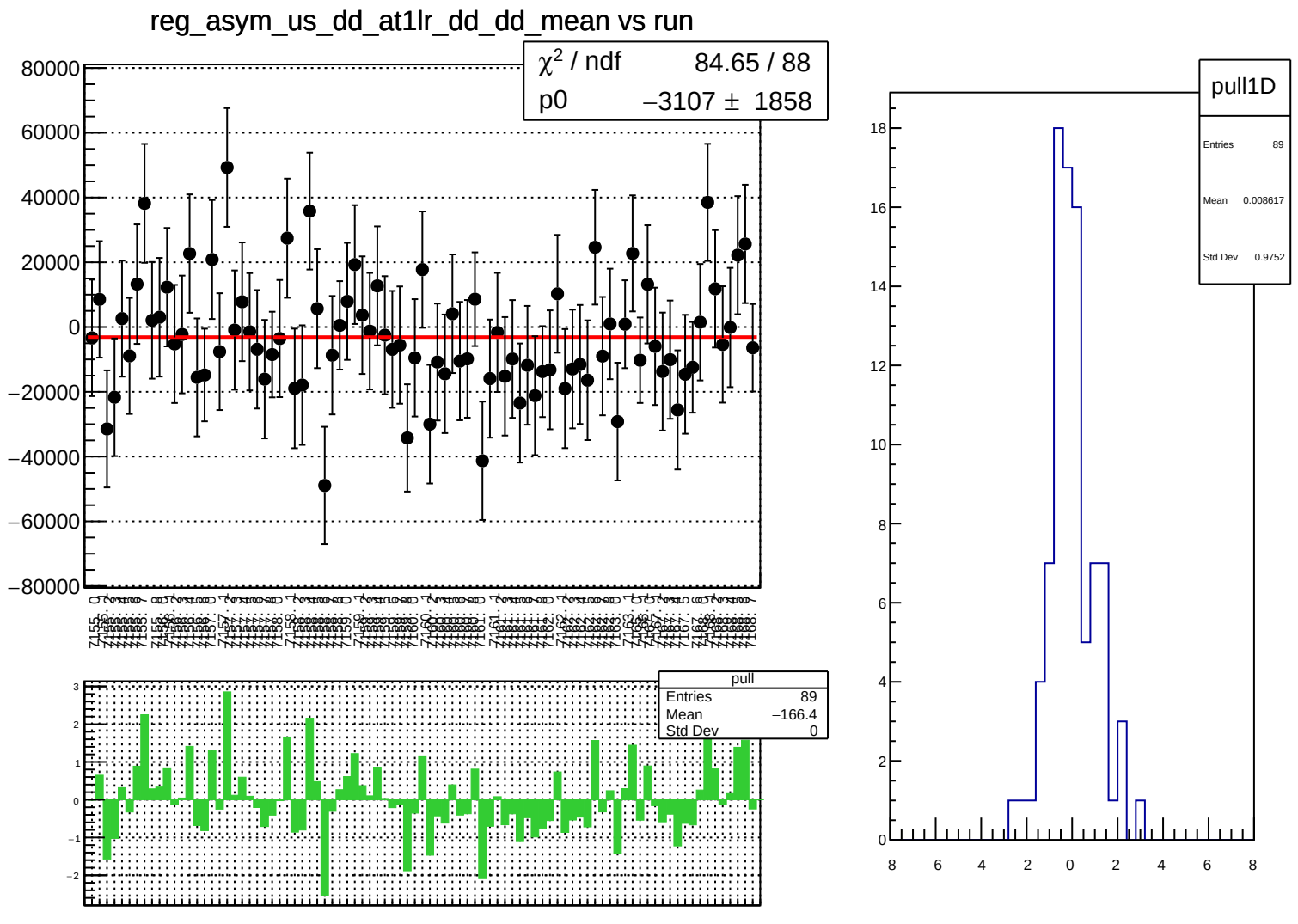

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.77 / 88
p0 0.02536 ± 0.04867
pull
Entries 89
Mean −131.1
Std Dev 0
pull1D
Entries 89
Mean 0.005926
Std Dev 0.898

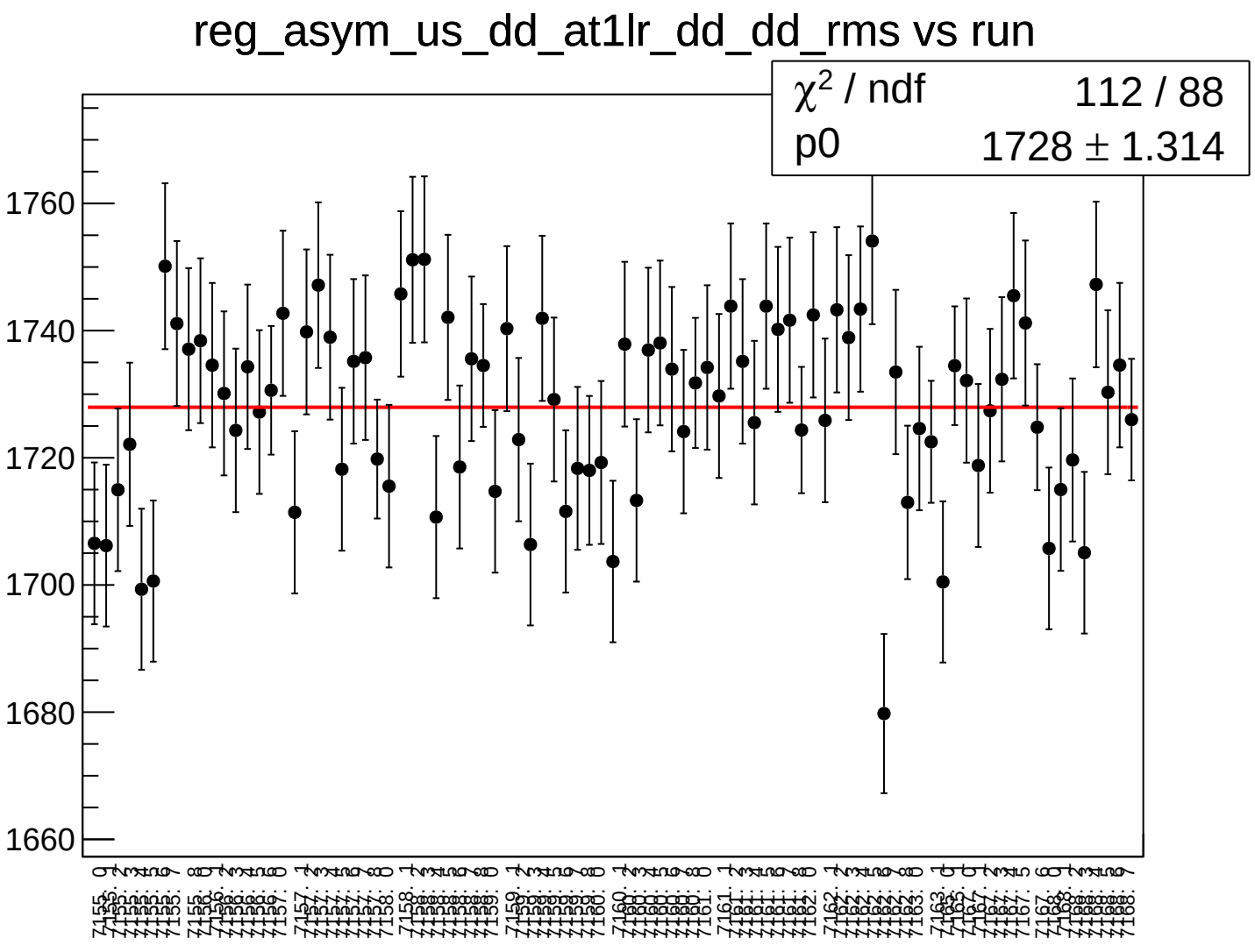

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 88
p0 42.69 ± 0.03442
120
100
80
60
40
20

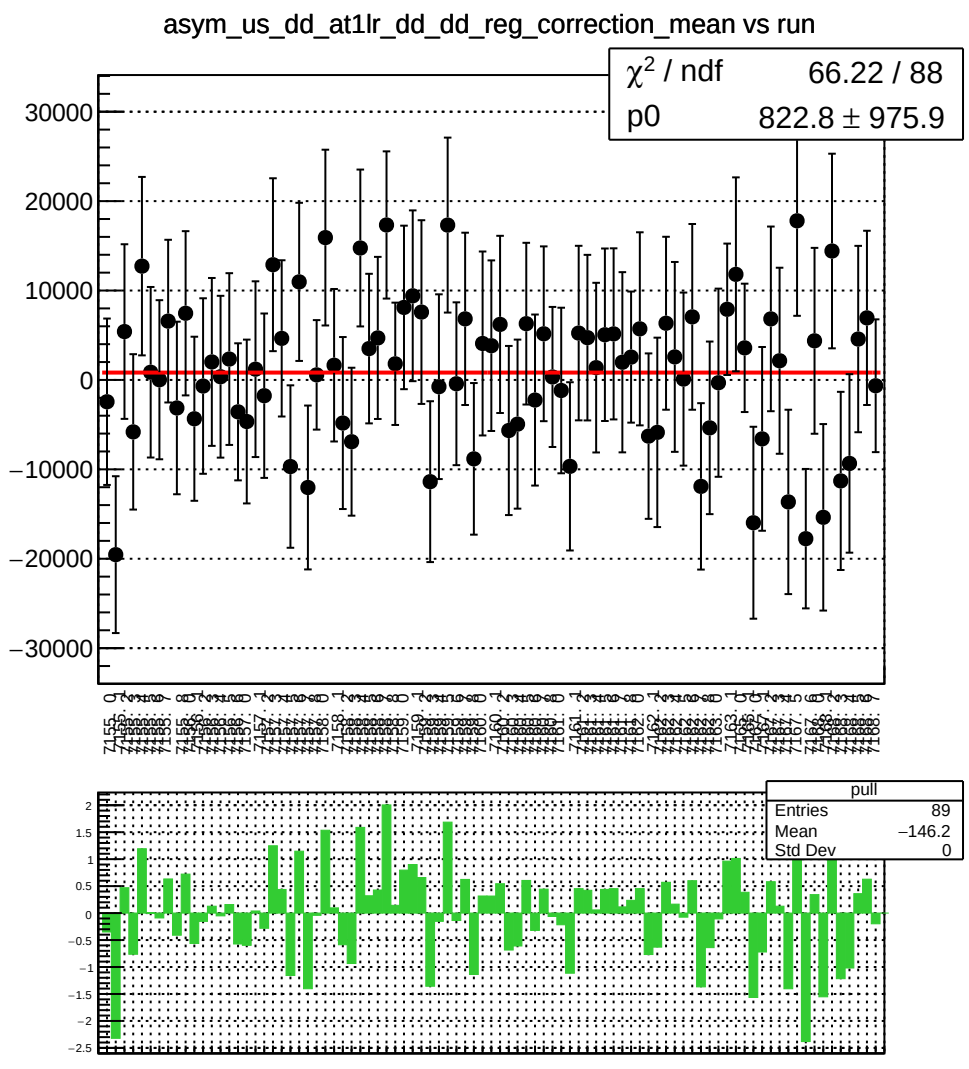

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 73.14 / 88
p0 −2.714e−15 ± 5.488e−15
pull
Entries 89
Mean 16
Std Dev 2.928

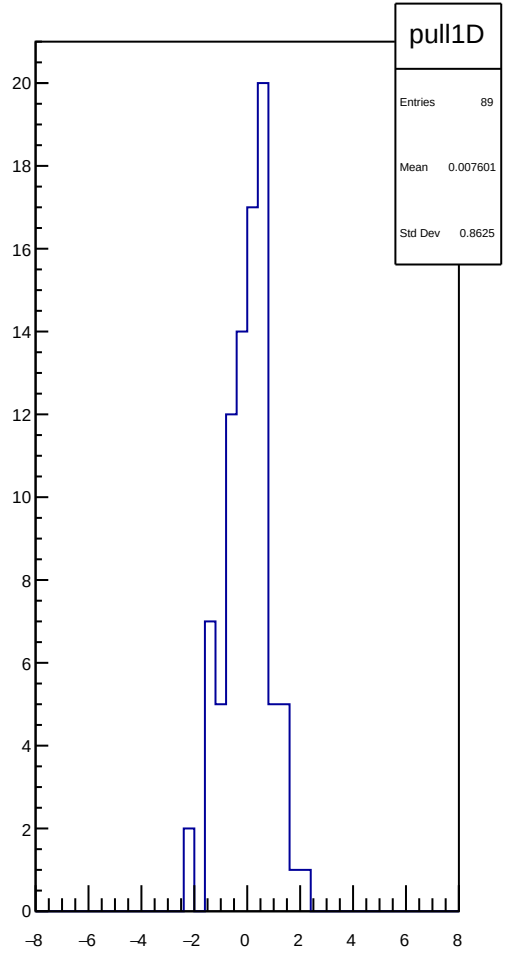

pull1D
Entries 89
Mean −0.0905
Std Dev 0.902

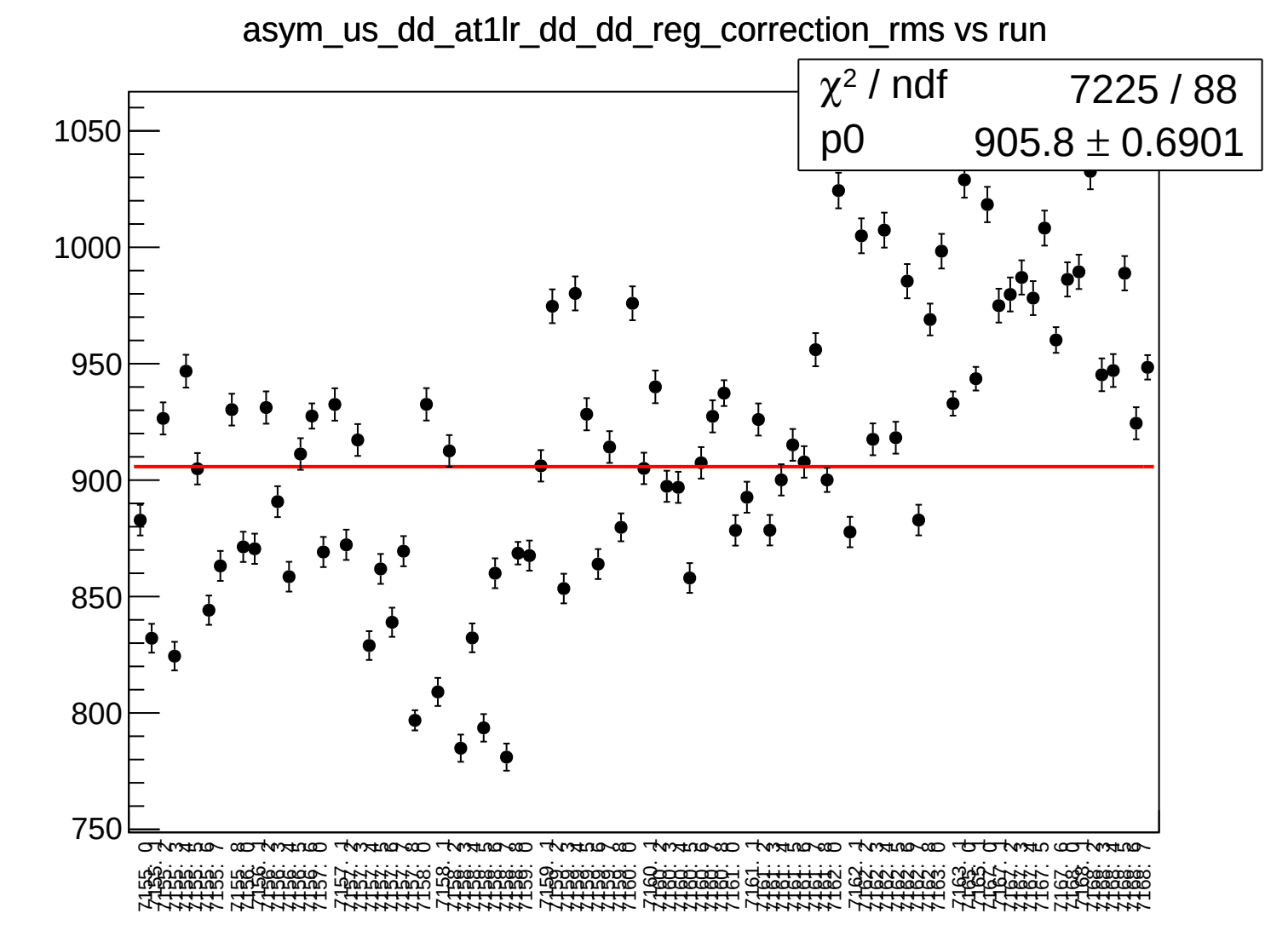

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.978e+05 / 88
p0 3.747e−12 ± 3.88e−15
50
40
30
20
10

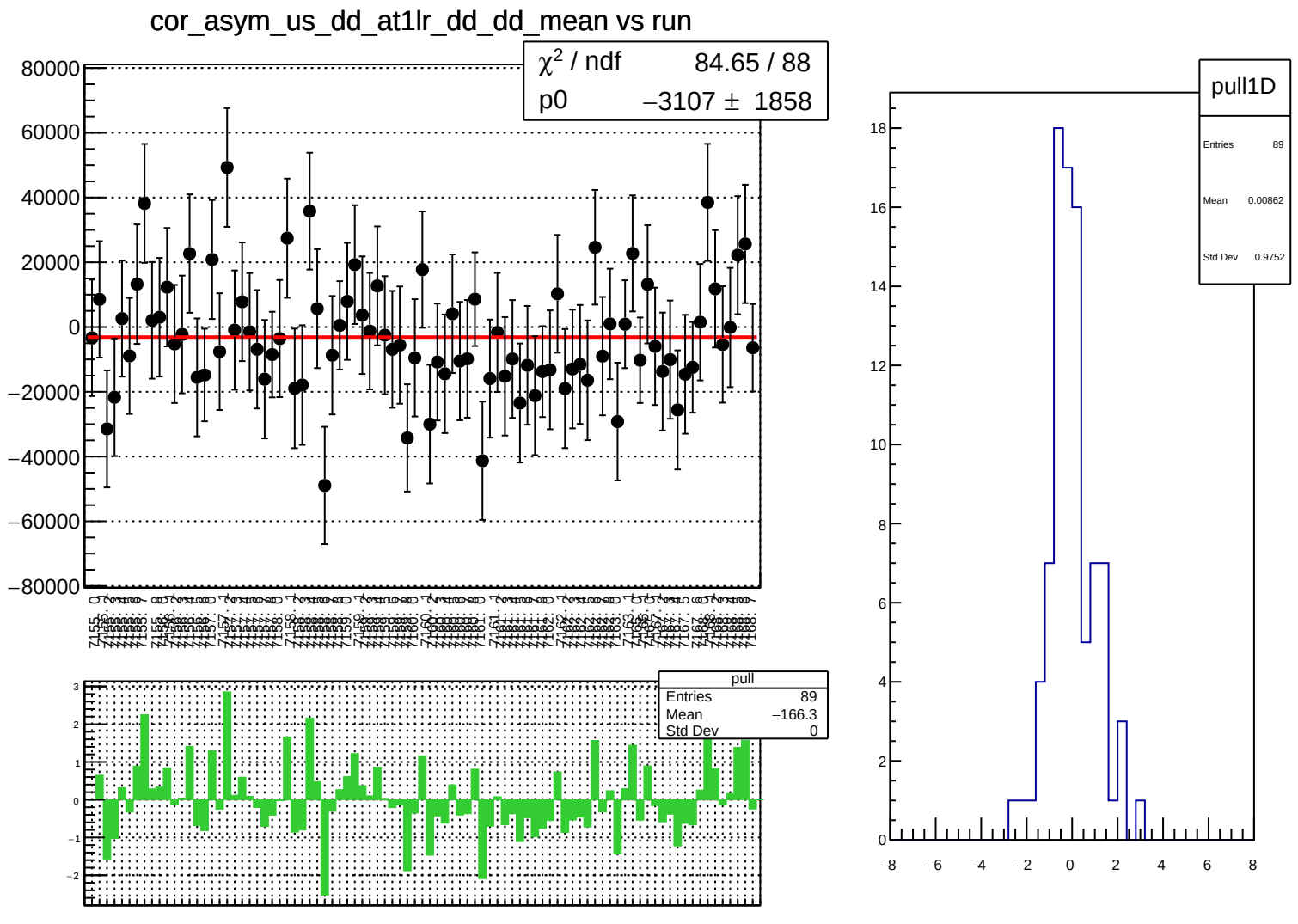

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.65 / 88
p0 −3107 ± 1858
pull
Entries 89
Mean −166.4
Std Dev 0
pull1D
Entries 89
Mean 0.008617
Std Dev 0.9752

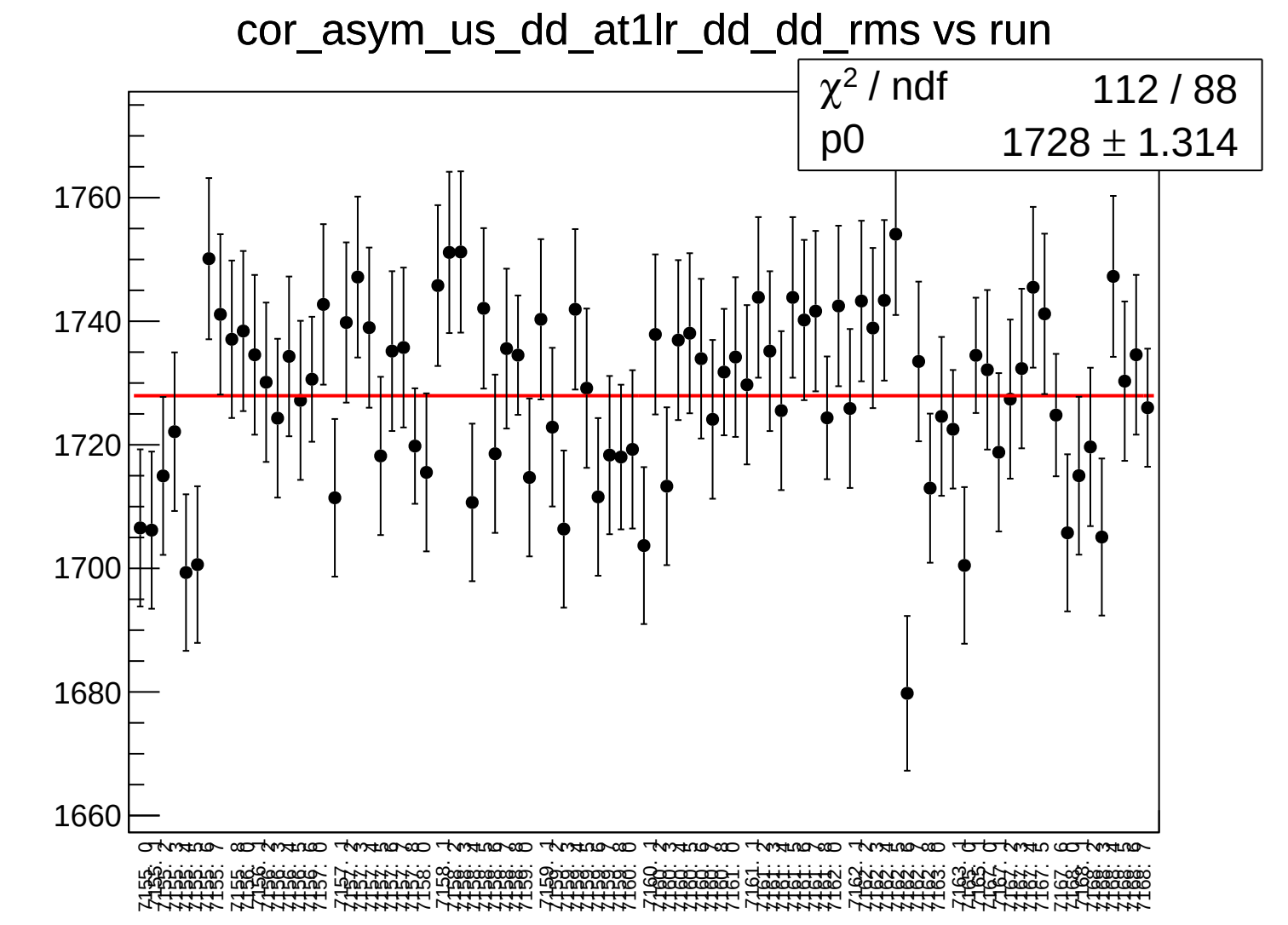

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 112 / 88
p0 1728 ± 1.314
1760
1740
1720
1700
1680
1660

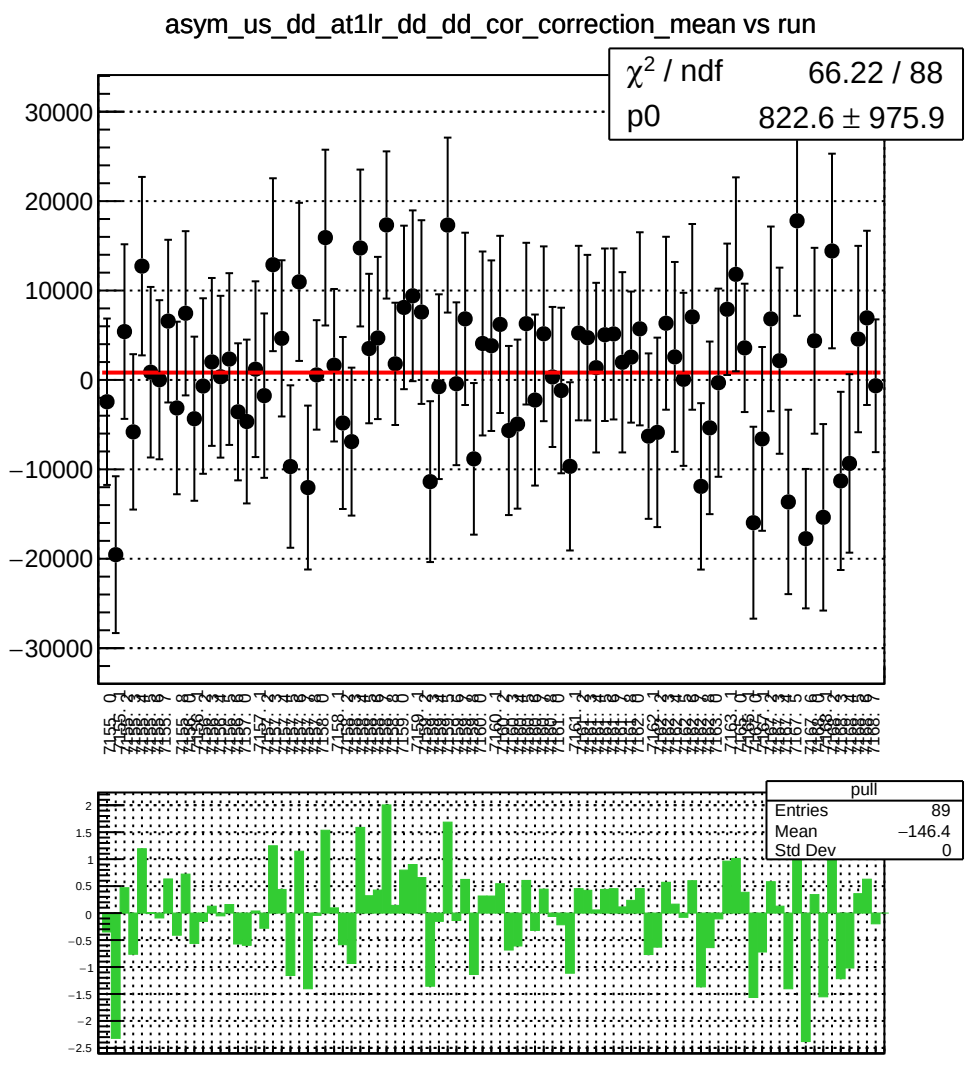

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 66.22 / 88
p0 822.8 ± 975.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −146.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

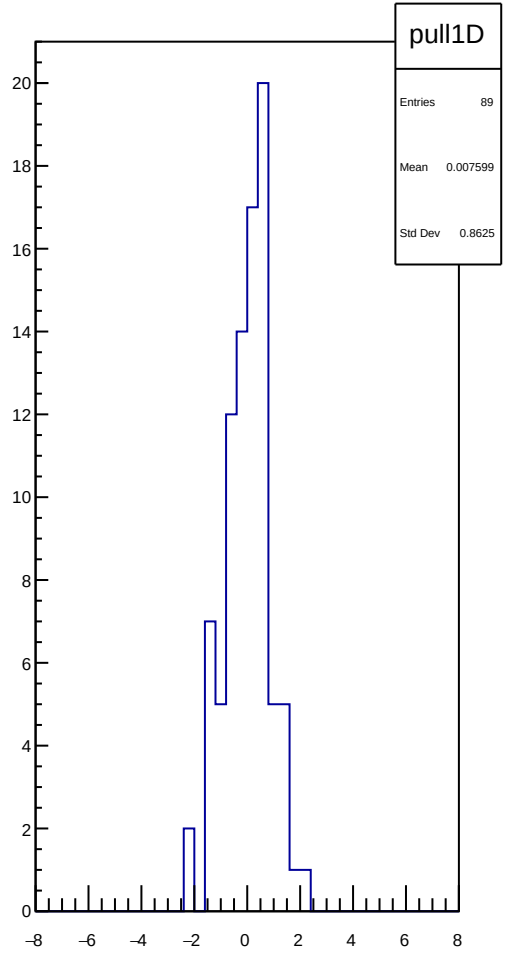

pull1D
Entries 89
Mean 0.007601
Std Dev 0.8625
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

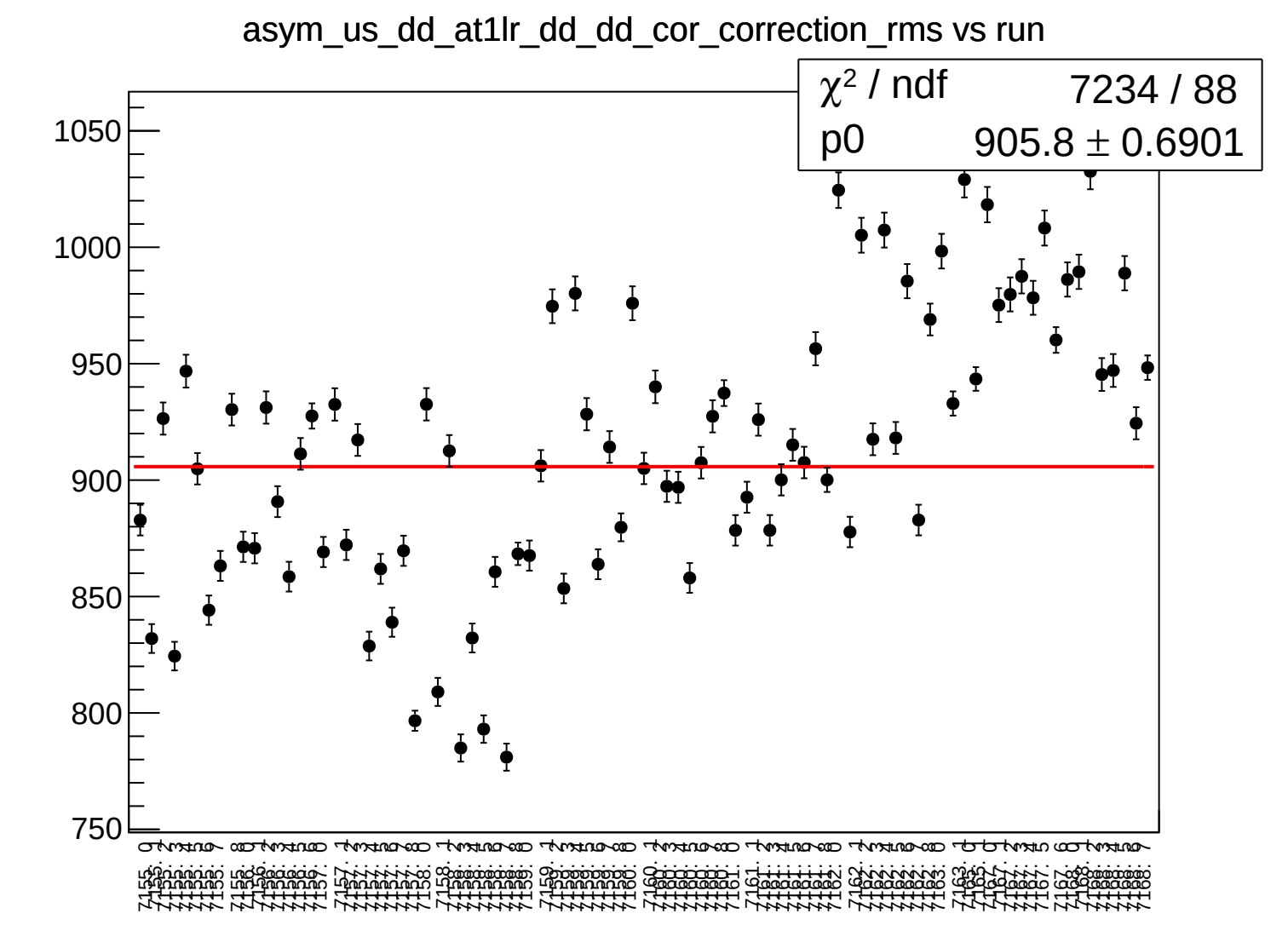

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 7225 / 88
p0 905.8 ± 0.6901
1050
1000
950
900
850
800
750

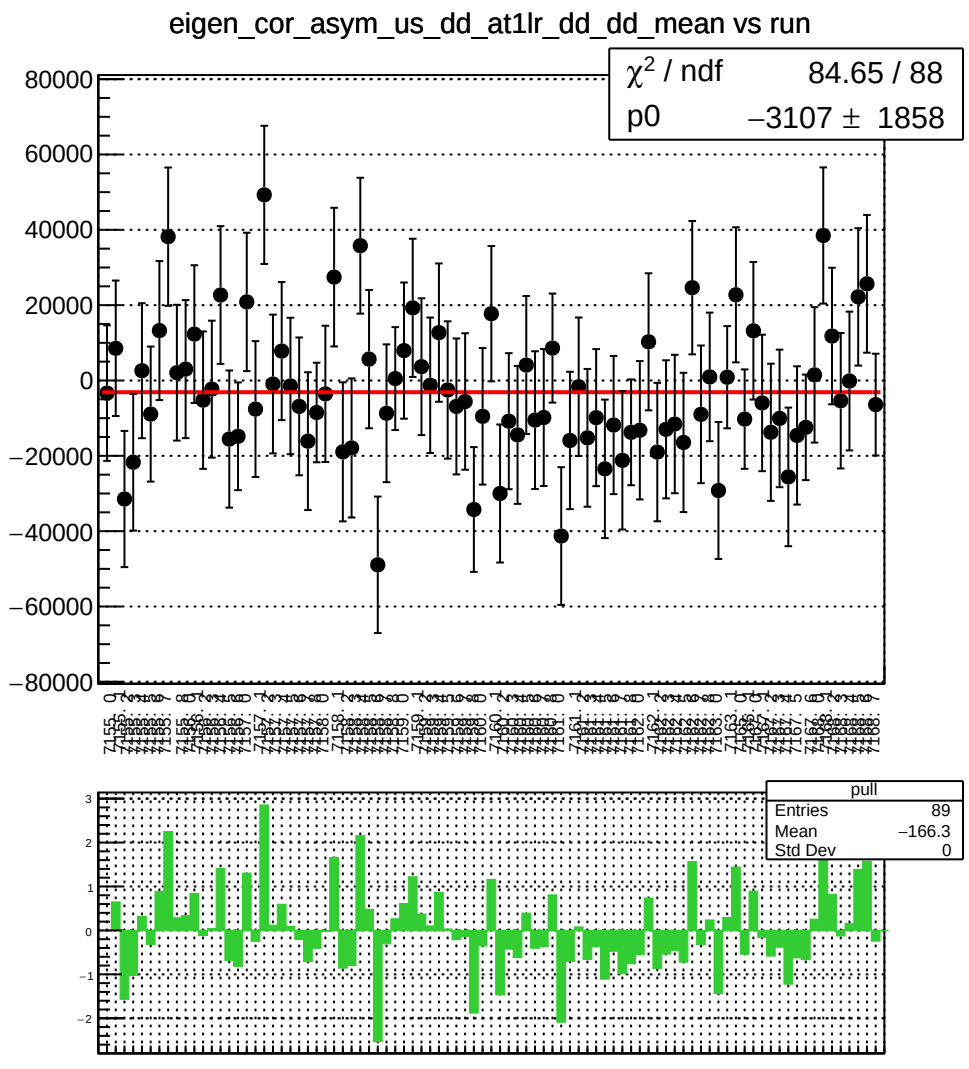

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.65 / 88
p0 −3107 ± 1858
pull
Entries 89
Mean −166.3
Std Dev 0
pull1D
Entries 89
Mean 0.00862
Std Dev 0.9752

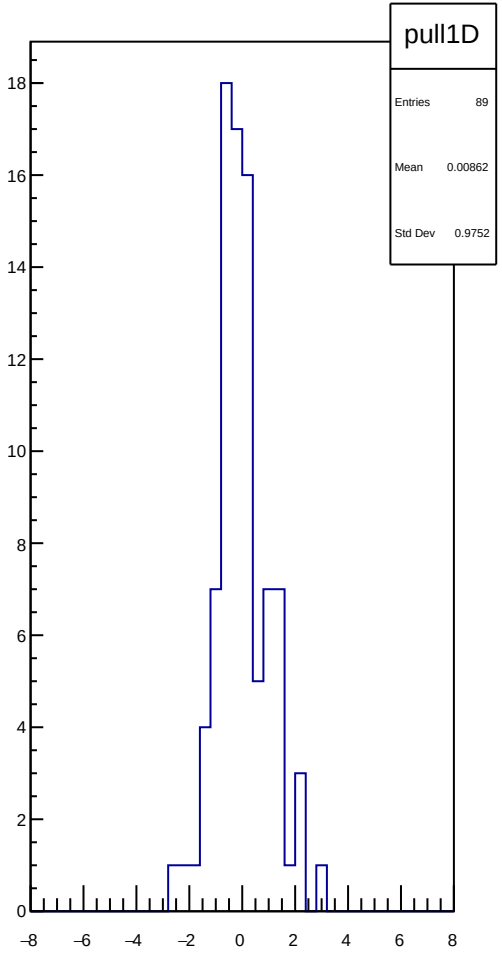

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 112 / 88
p0 1728 ± 1.314
1760
1740
1720
1700
1680
1660

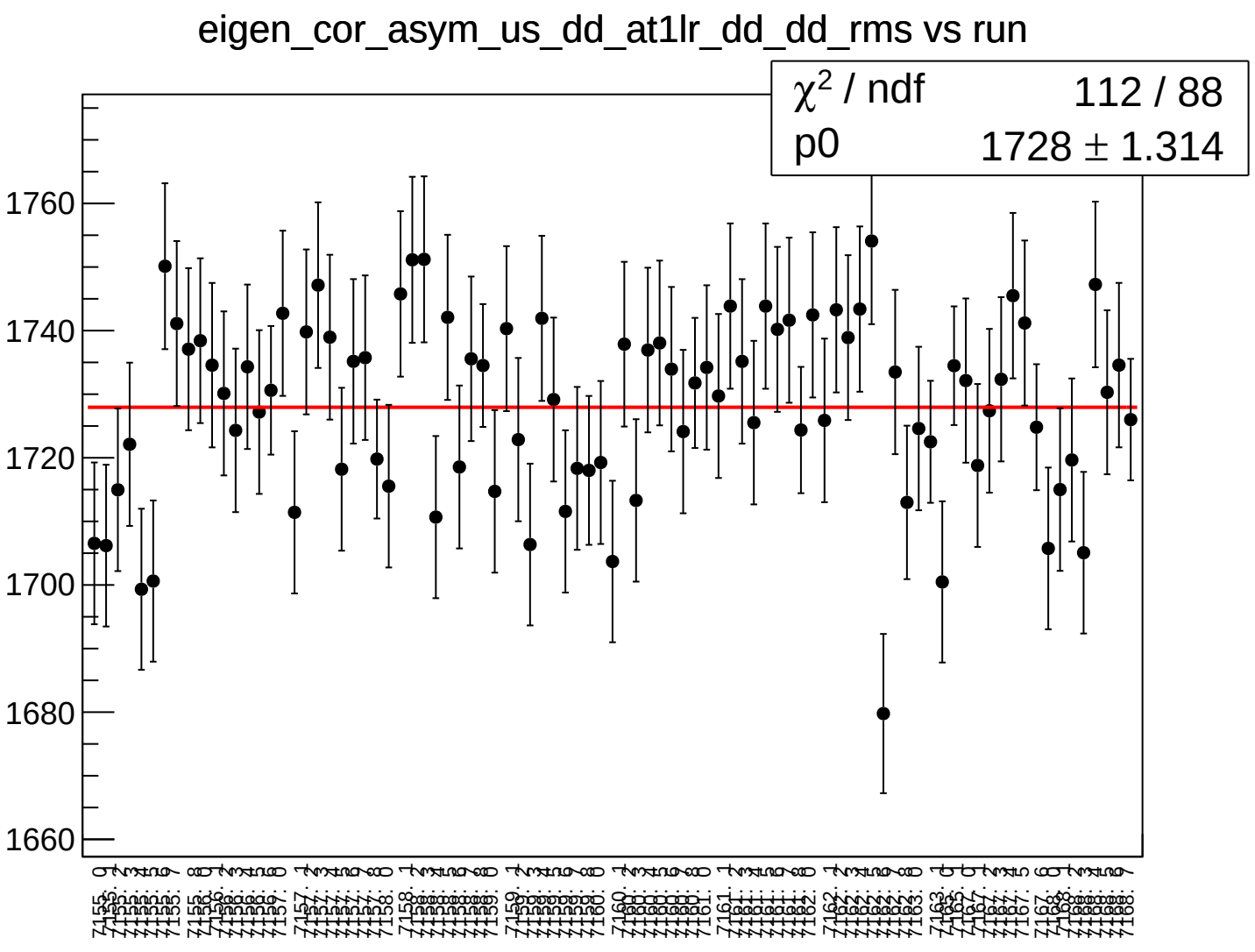

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 66.22 / 88
p0 822.6 ± 975.9
pull
Entries 89
Mean −146.4
Std Dev 0

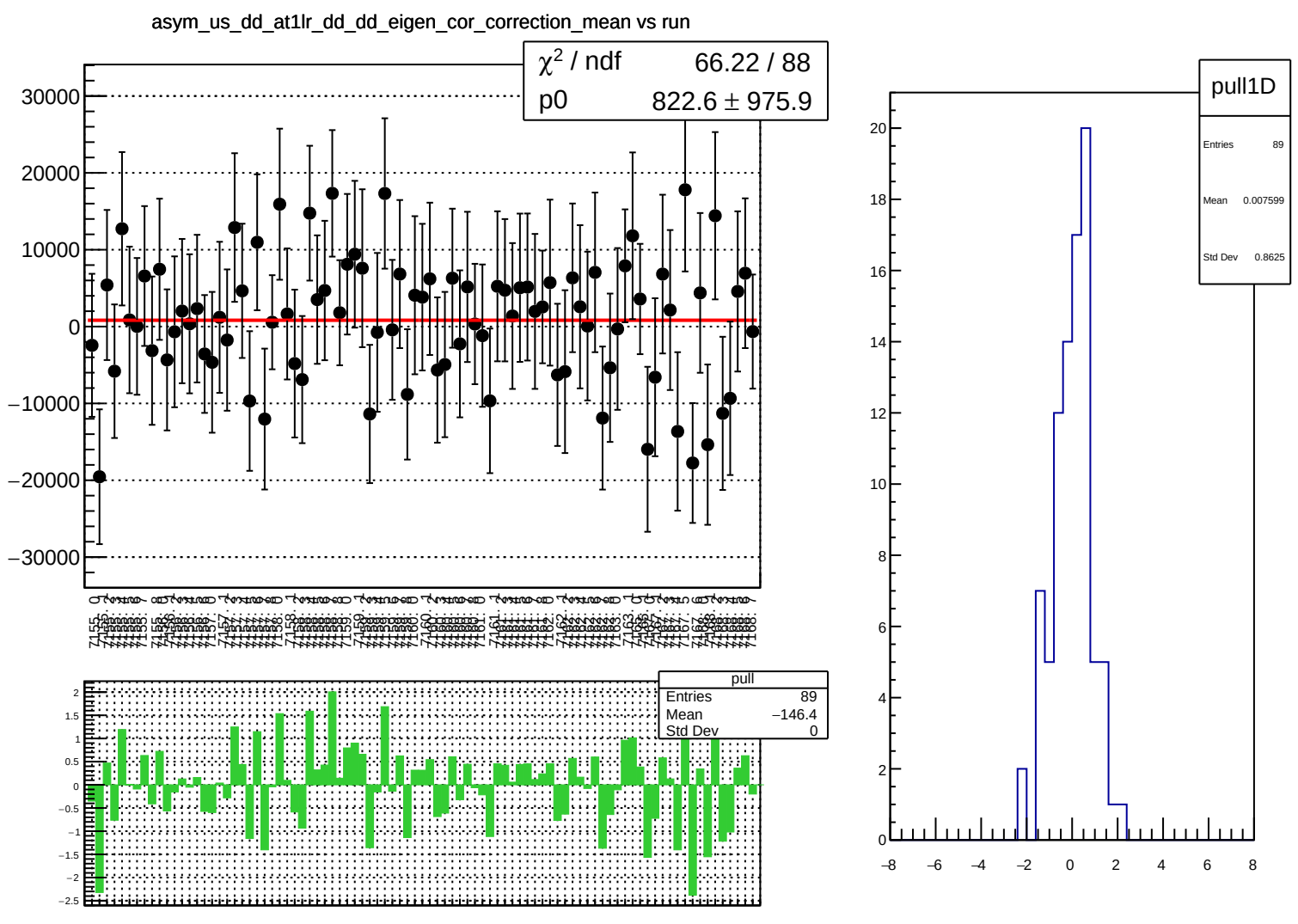

pull1D
Entries 89
Mean 0.007599
Std Dev 0.8625

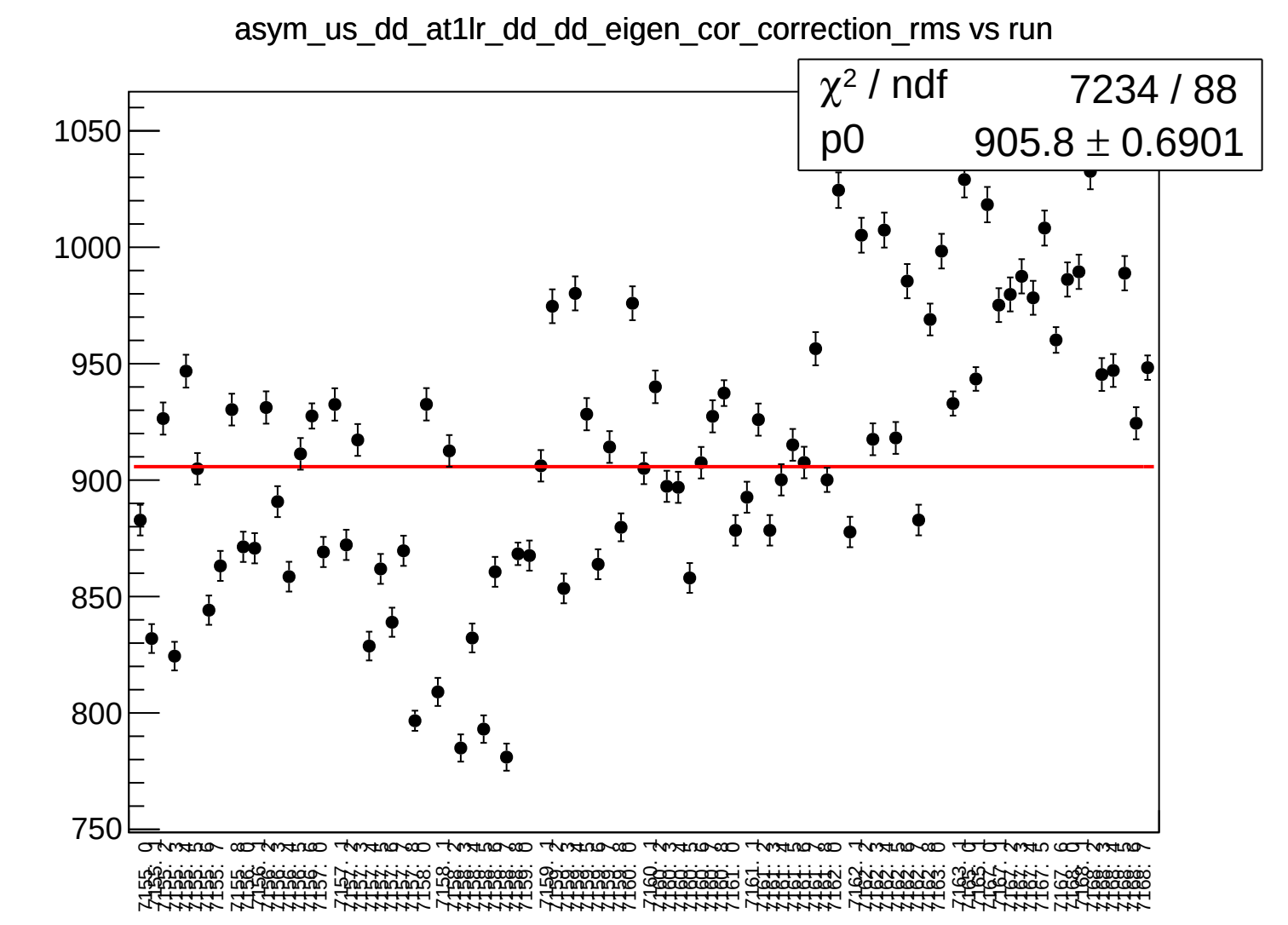

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 7234 / 88
p0 905.8 ± 0.6901
1050
1000
950
900
850
800
750

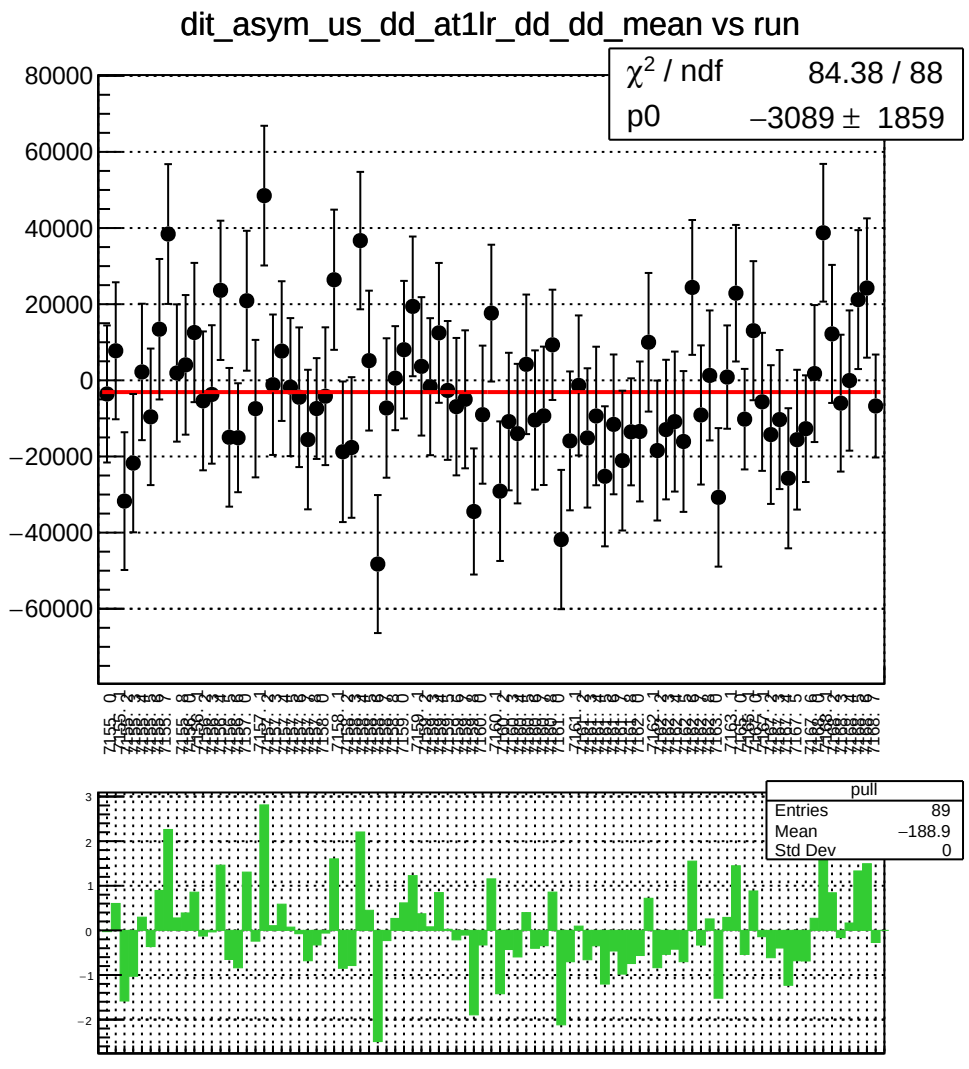

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.65 / 88
p0 −3107 ± 1858
pull
Entries 89
Mean −166.3
Std Dev 0

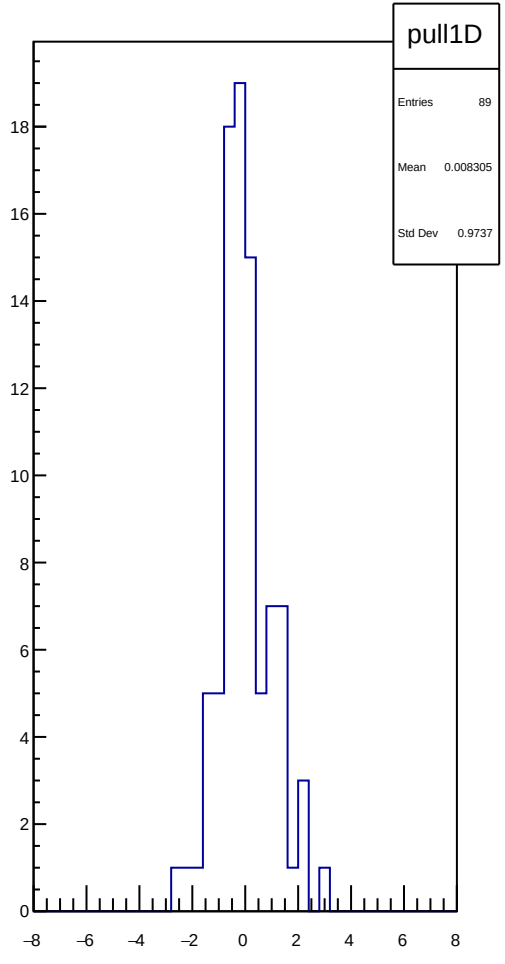

pull1D
Entries 89
Mean 0.00862
Std Dev 0.9752

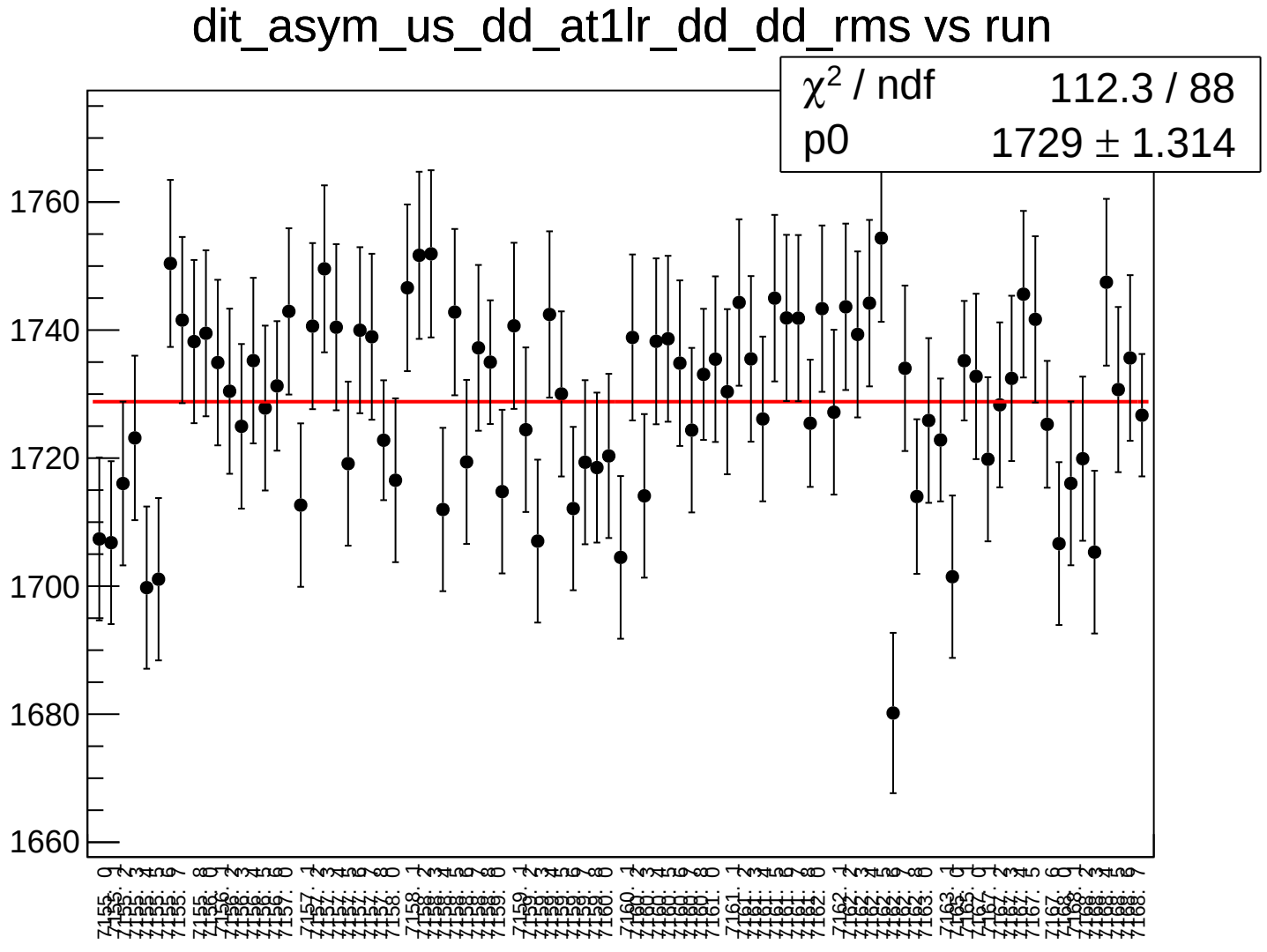

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 112 / 88
p0 1728 ± 1.314
1760
1740
1720
1700
1680
1660

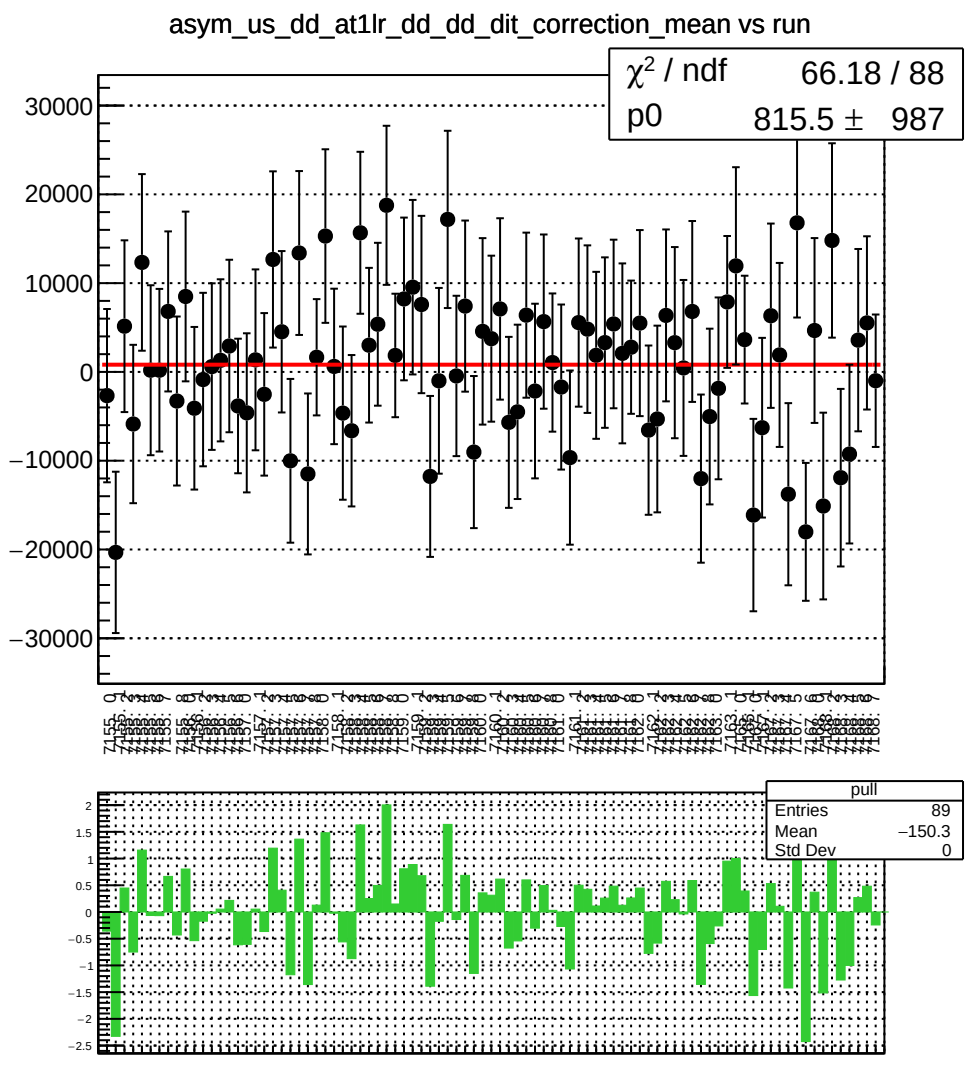

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.22 / 88
p0 822.6 ± 975.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −146.4
Std Dev 0
pull1D
Entries 89
Mean 0.007599
Std Dev 0.8625

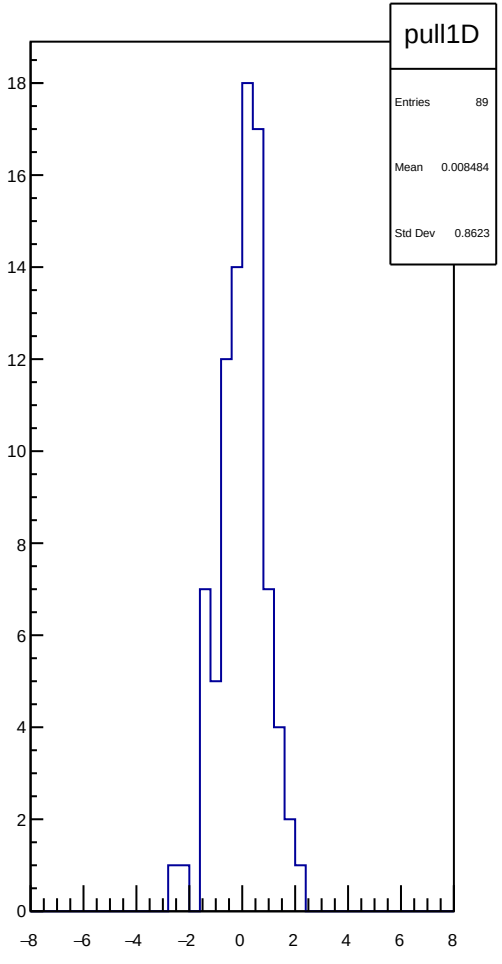

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 7234 / 88
p0 905.8 ± 0.6901
1050
1000
950
900
850
800
750

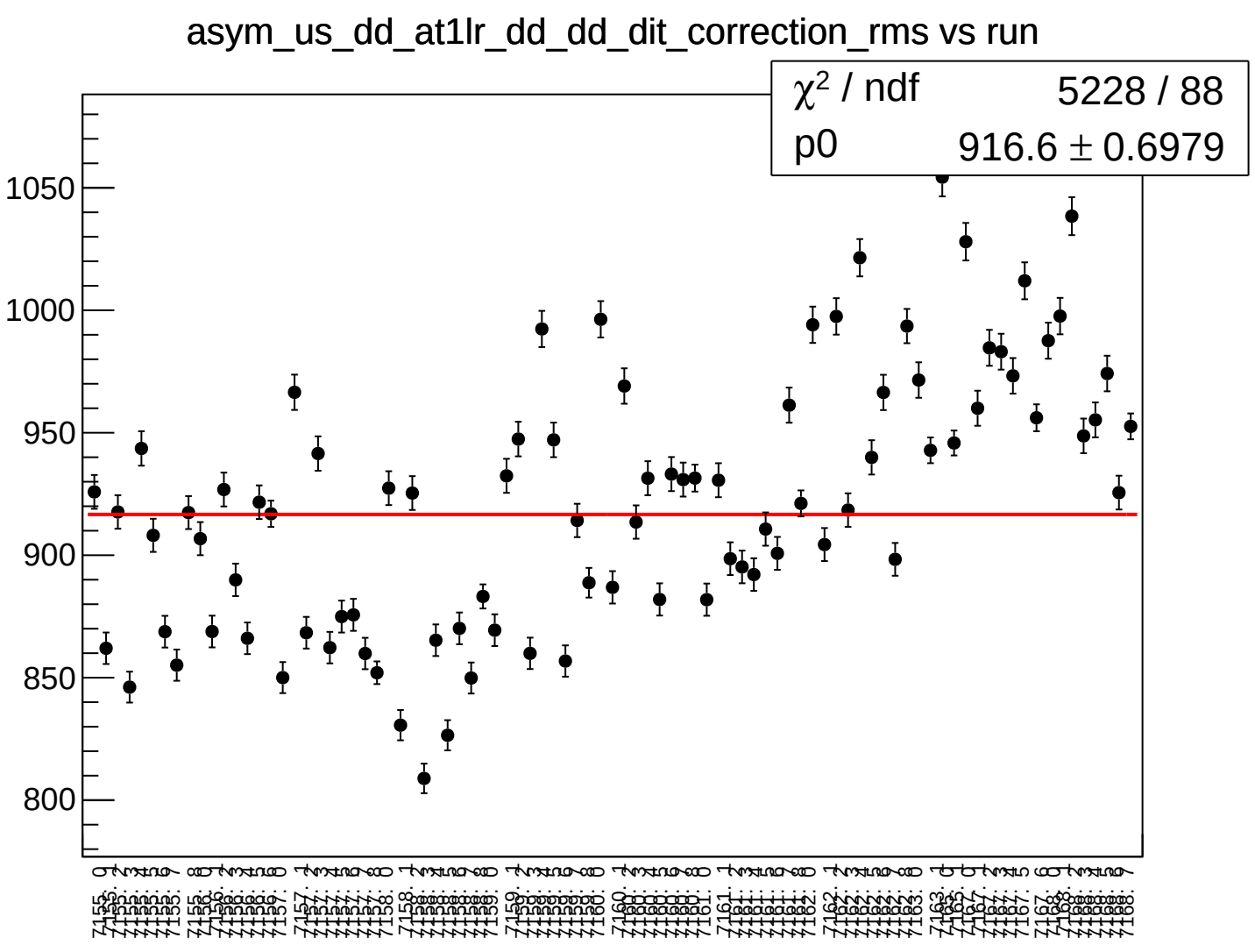

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.38 / 88
p0 −3089 ± 1859
pull
Entries 89
Mean −188.9
Std Dev 0

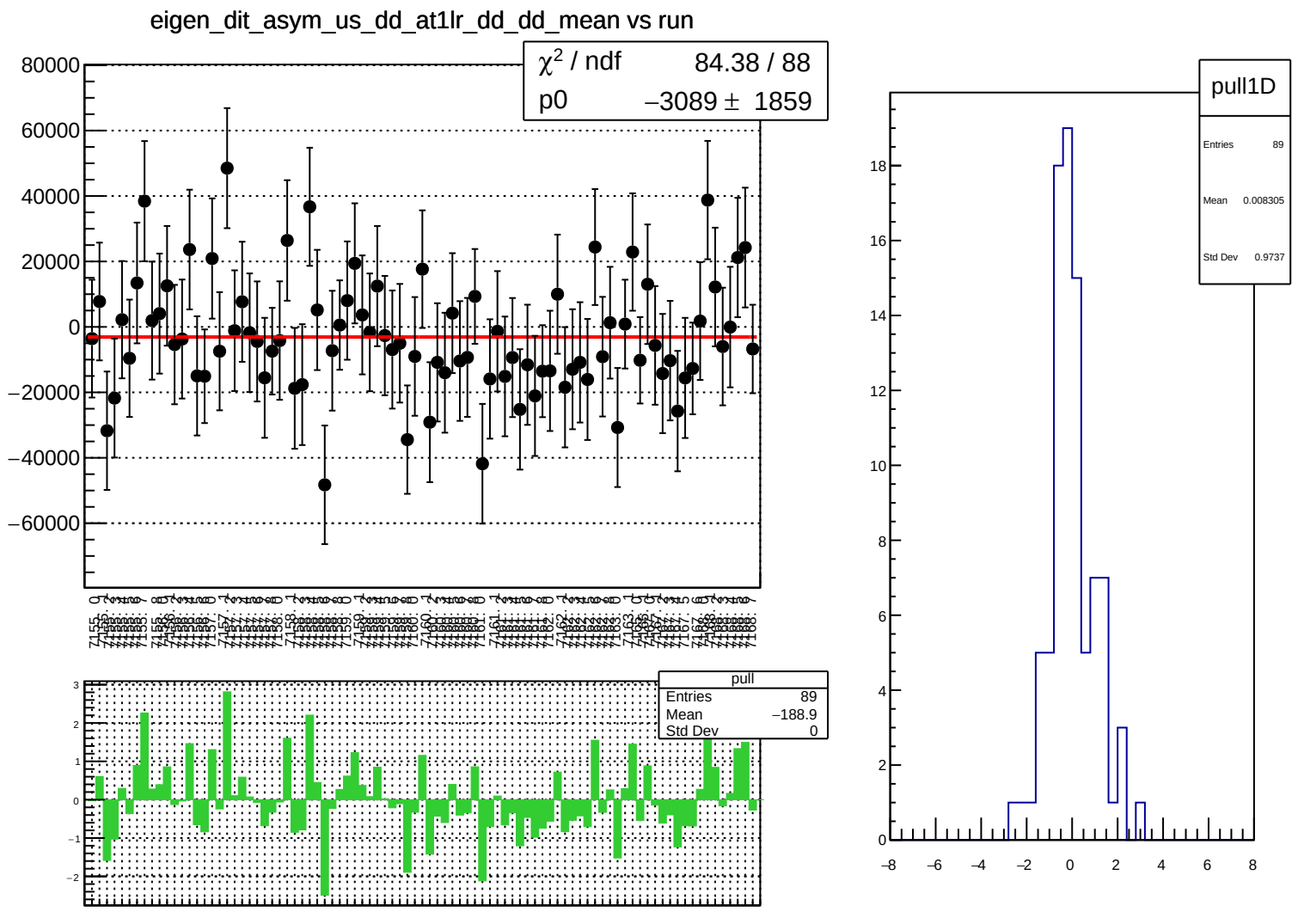

pull1D
Entries 89
Mean 0.008305
Std Dev 0.9737

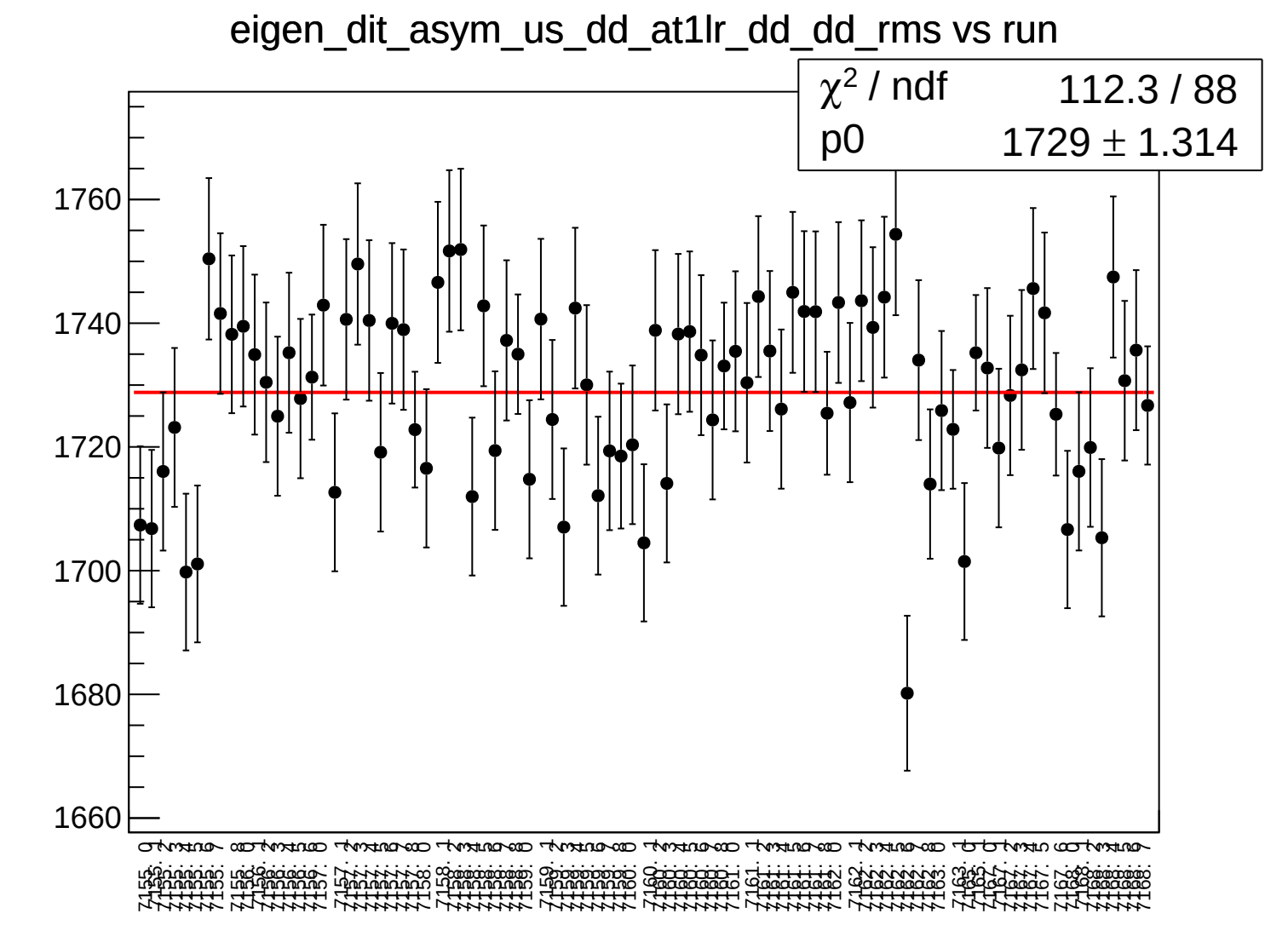

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 112.3 / 88
p0 1729 ± 1.314
1760
1740
1720
1700
1680
1660

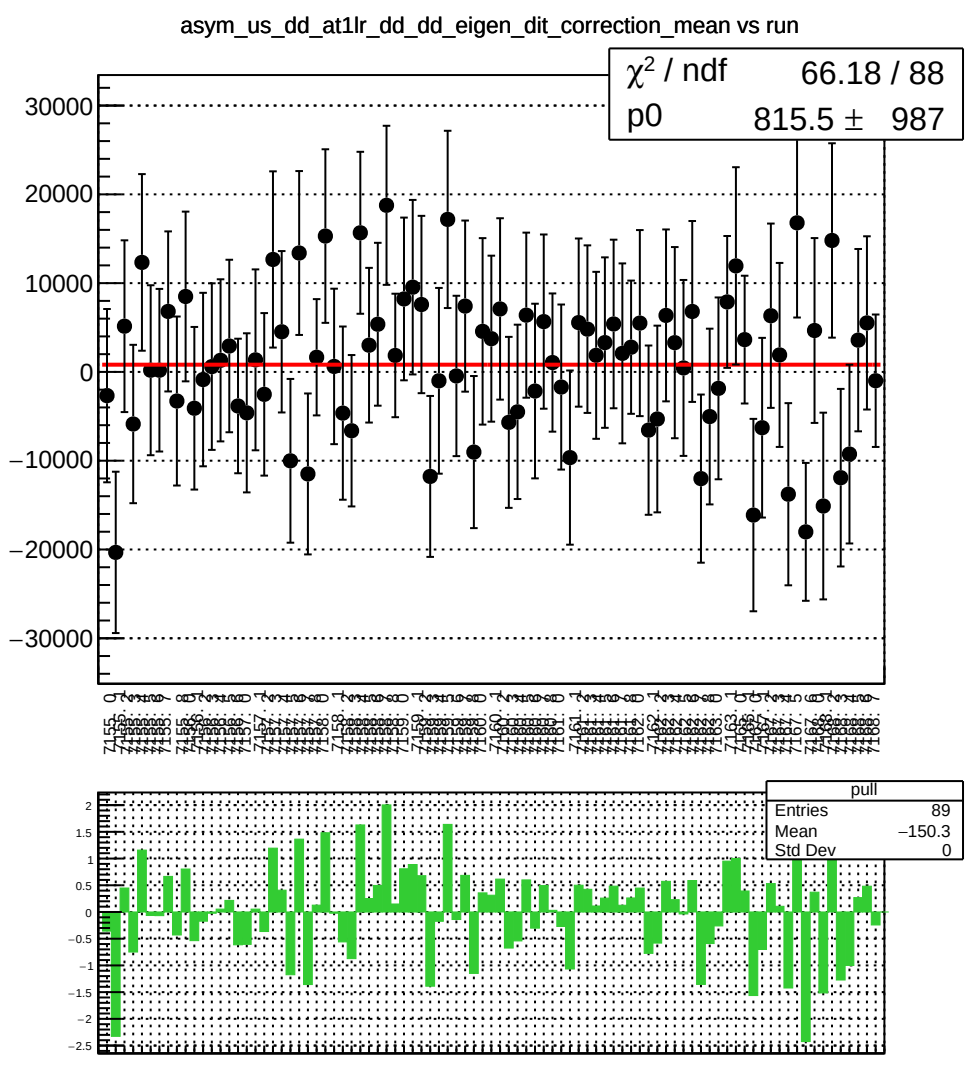

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 66.18 / 88
p0 815.5 ± 987
pull
Entries 89
Mean −150.3
Std Dev 0

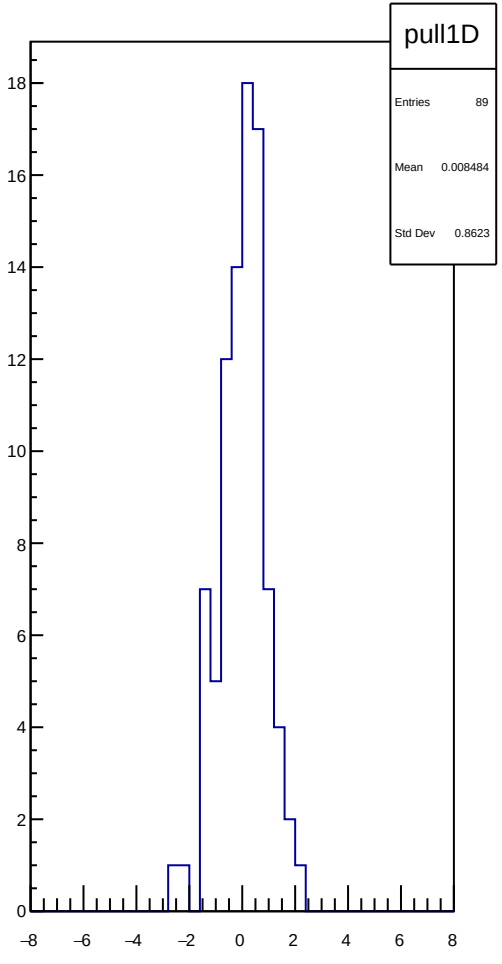

pull1D
Entries 89
Mean 0.008484
Std Dev 0.8623

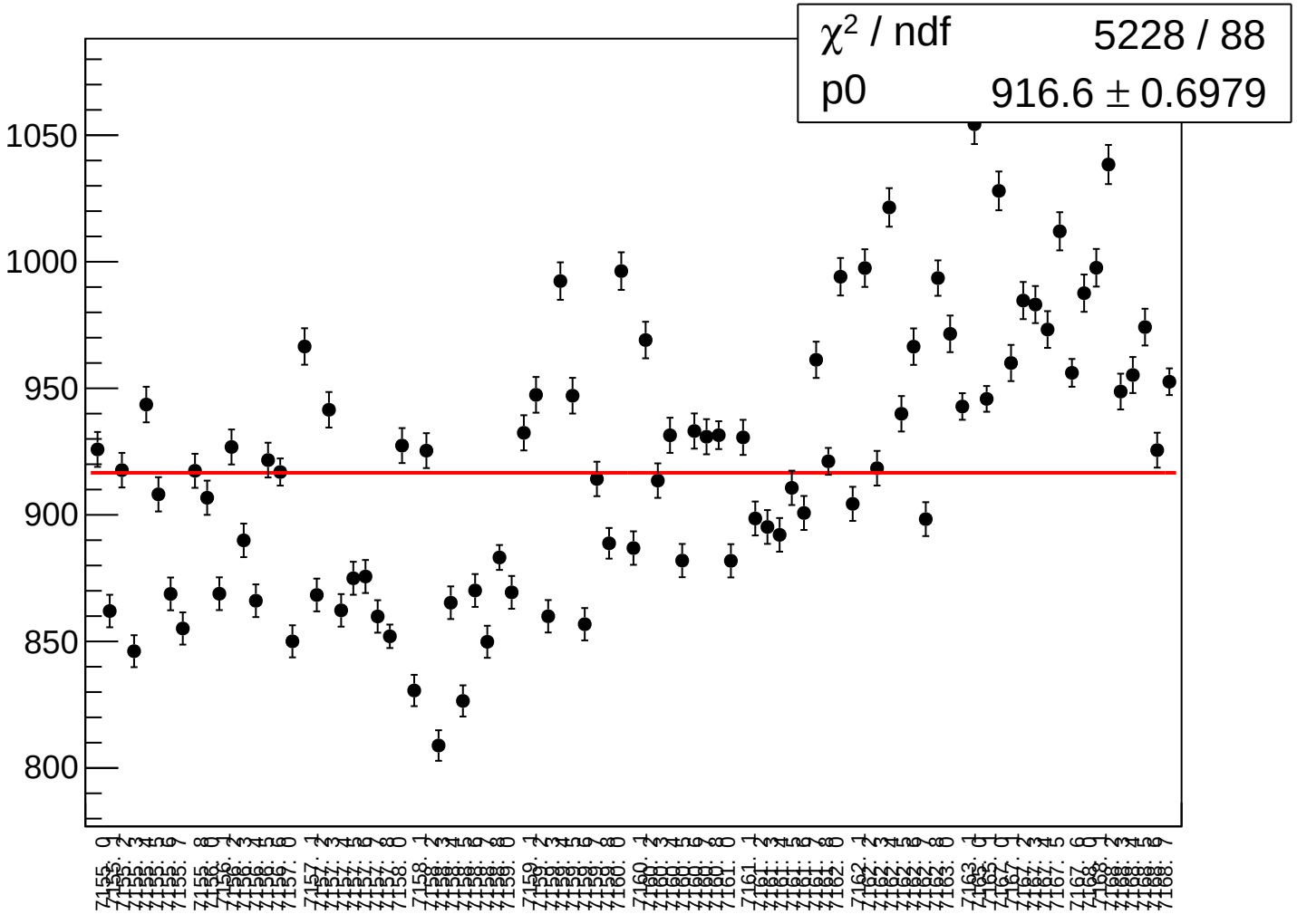

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5228 / 88
p0 916.6 ± 0.6979
1050
1000
950
900
850
800

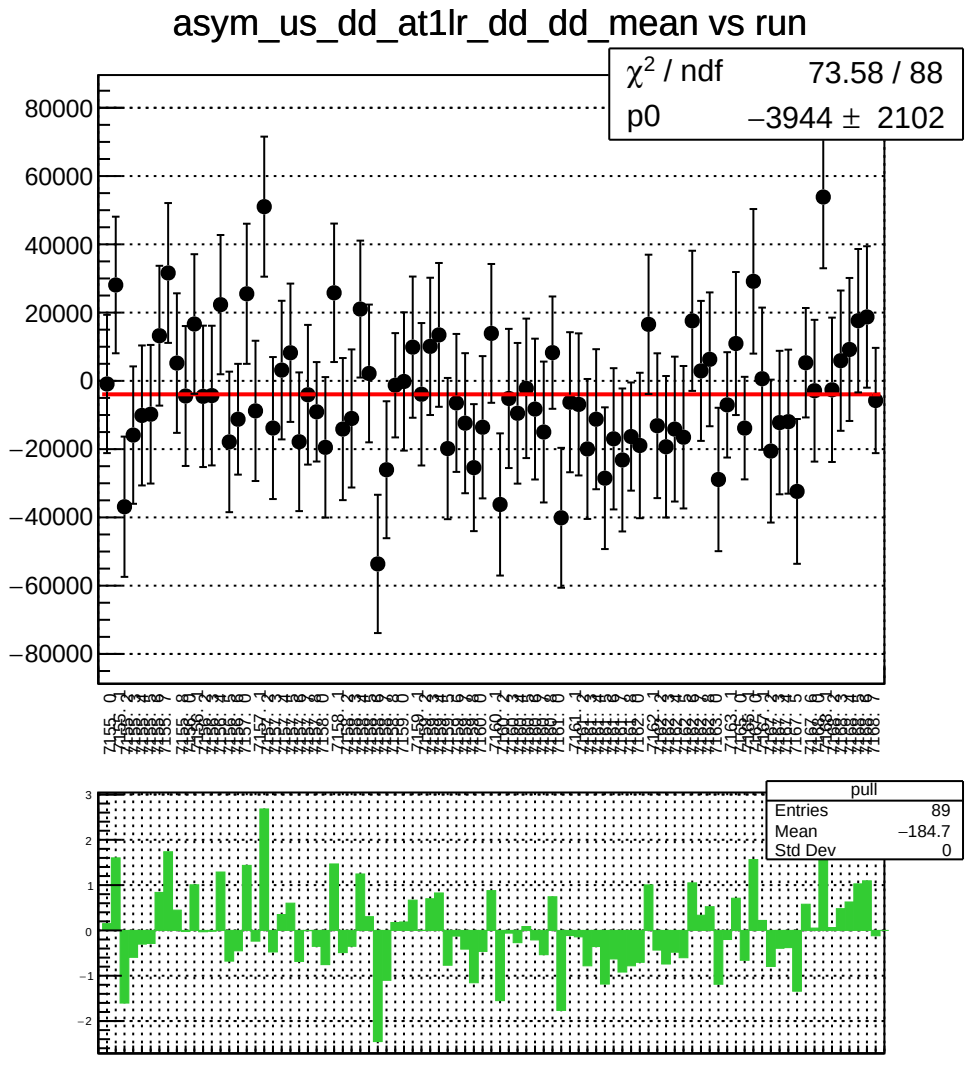

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 84.38 / 88
p0 −3089 ± 1859
pull
Entries 89
Mean −188.9
Std Dev 0
pull1D
Entries 89
Mean 0.008305
Std Dev 0.9737

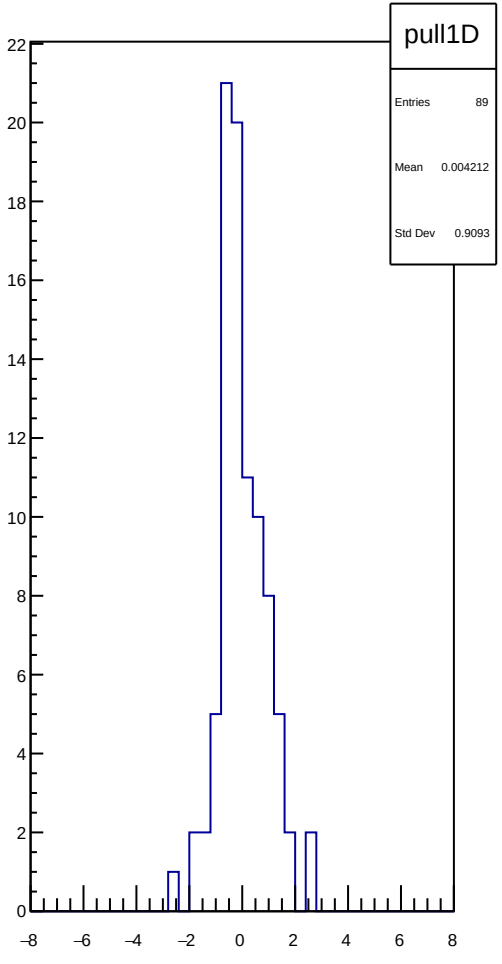

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ^2 / ndf 112.3 / 88
p0 1729 ± 1.314
1760
1740
1720
1700
1680
1660

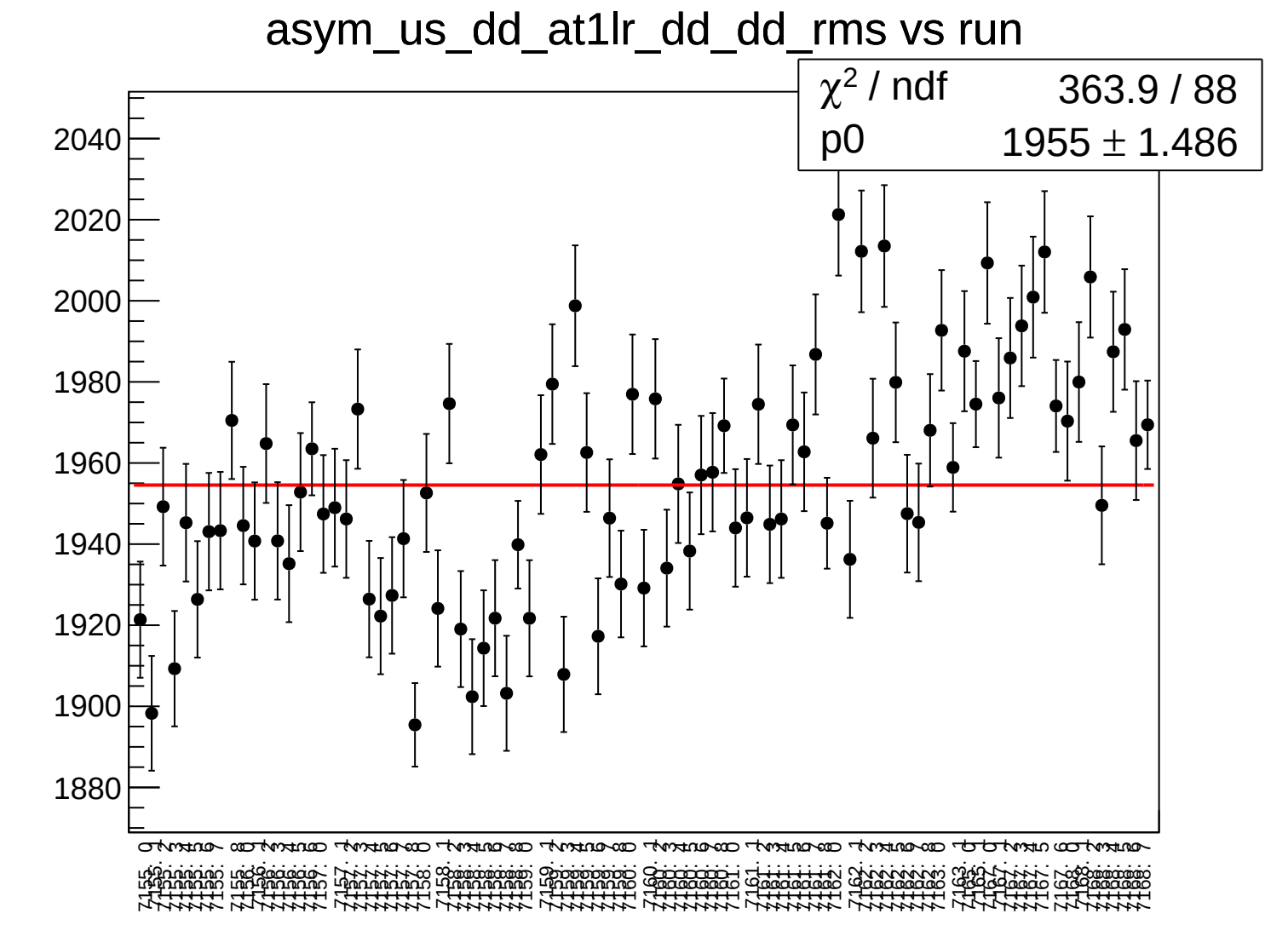

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.18 / 88
p0 815.5 ± 987
pull
Entries 89
Mean −150.3
Std Dev 0

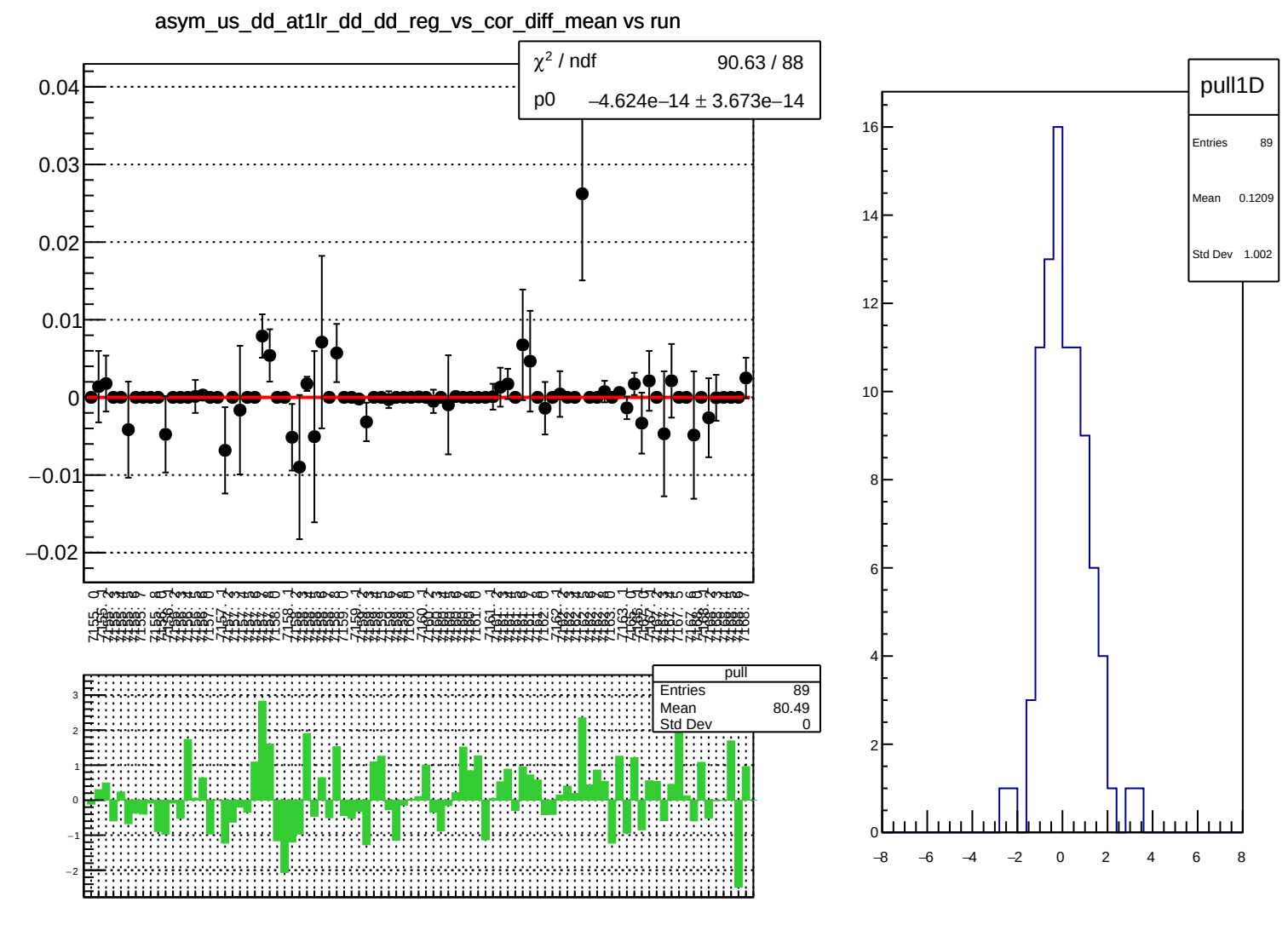

pull1D
Entries 89
Mean 0.008484
Std Dev 0.8623

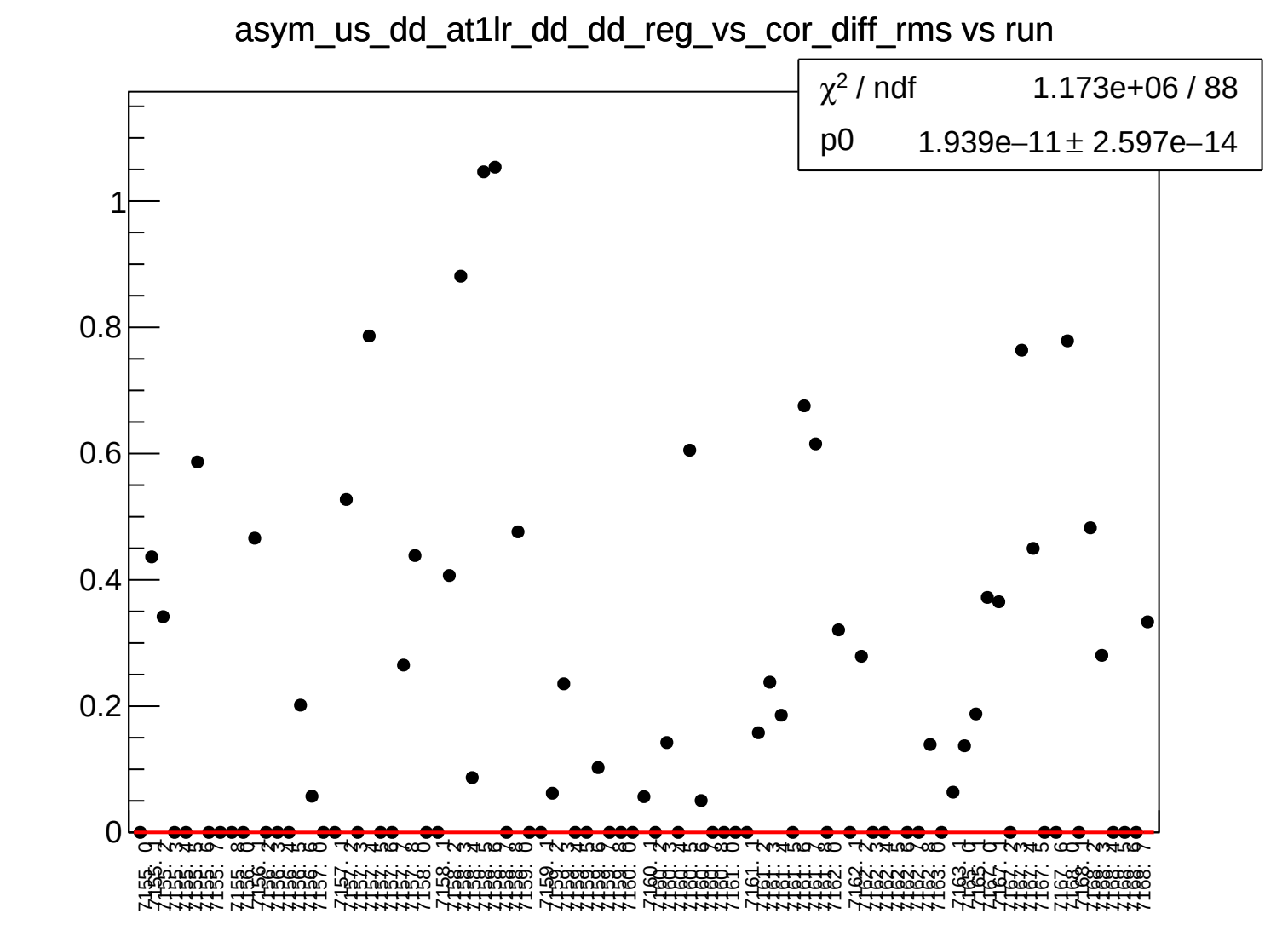

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5228 / 88
p0 916.6 ± 0.6979
1050
1000
950
900
850
800

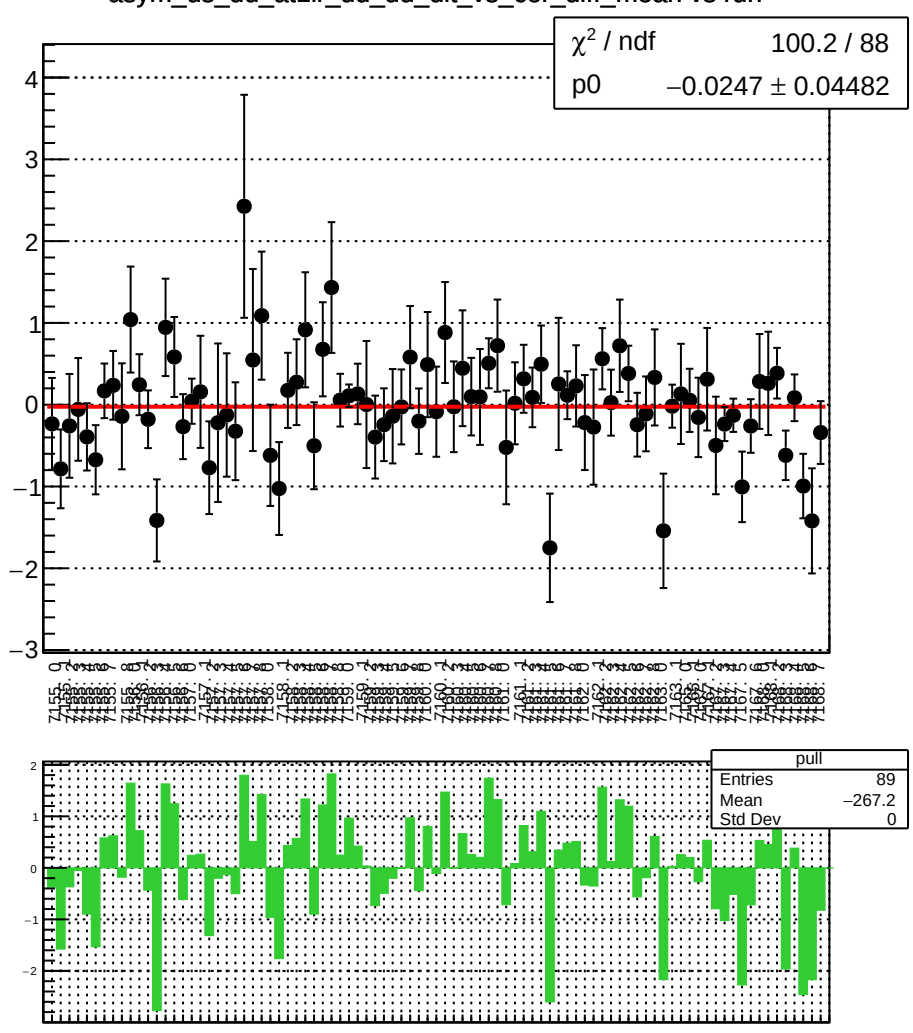

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 73.58 / 88
p0 −3944 ± 2102
pull
Entries 89
Mean −184.7
Std Dev 0

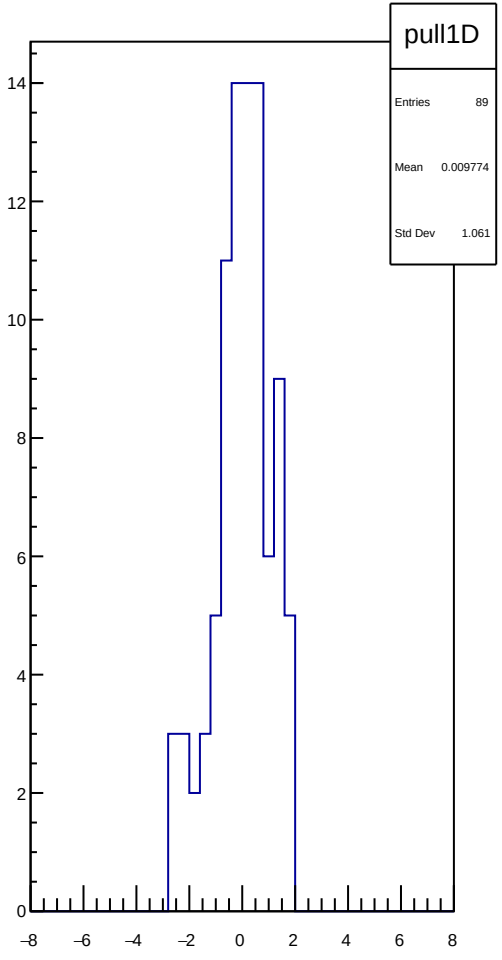

pull1D
Entries 89
Mean 0.004212
Std Dev 0.9093

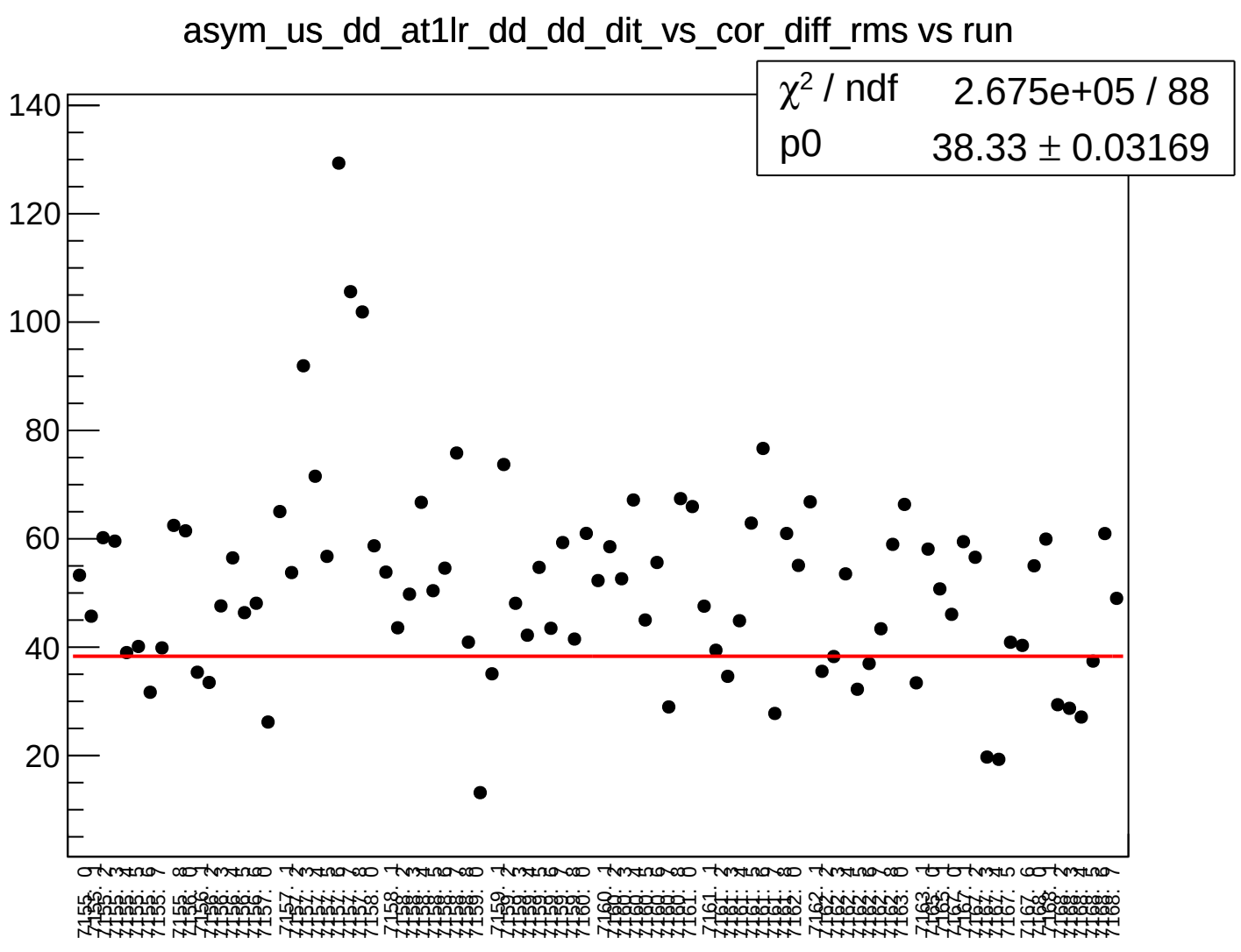

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 363.9 / 88
p0 1955 ± 1.486
2040
2020
2000
1980
1960
1940
1920
1900
1880

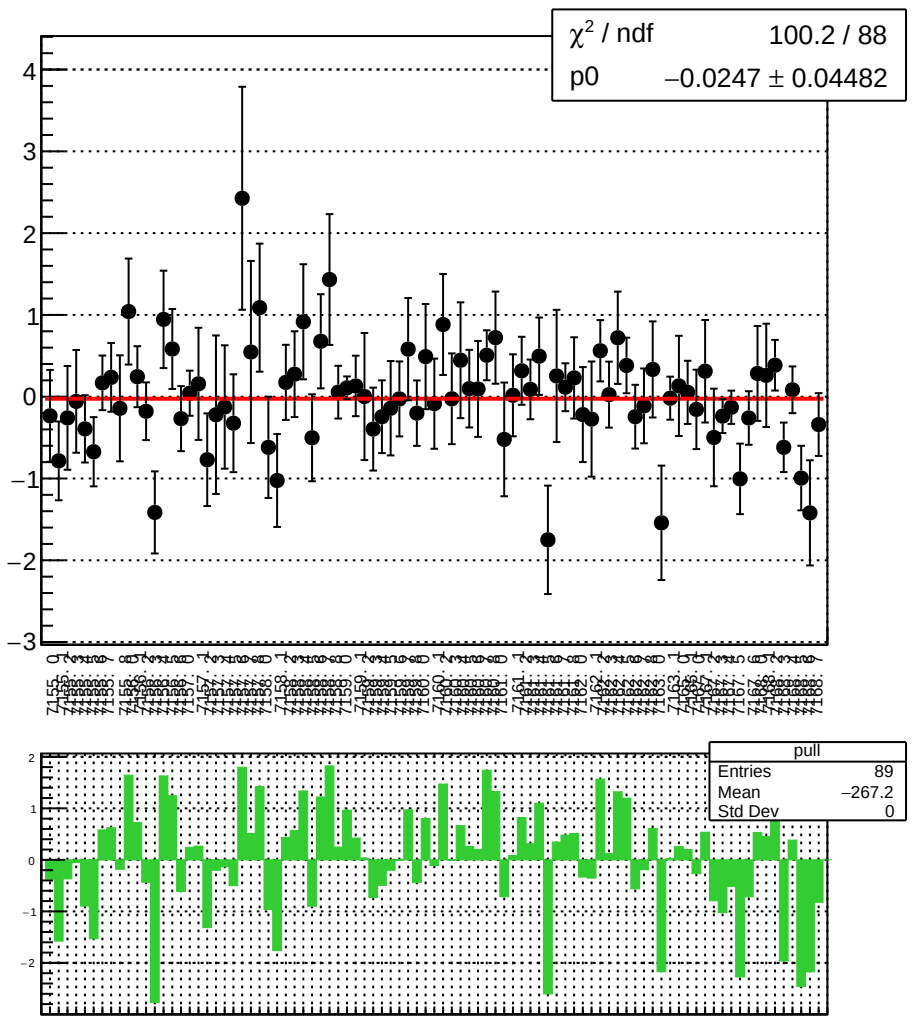

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.63 / 88
p0 −4.624e−14 ± 3.673e−14
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 89
Mean 80.49
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.1209
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

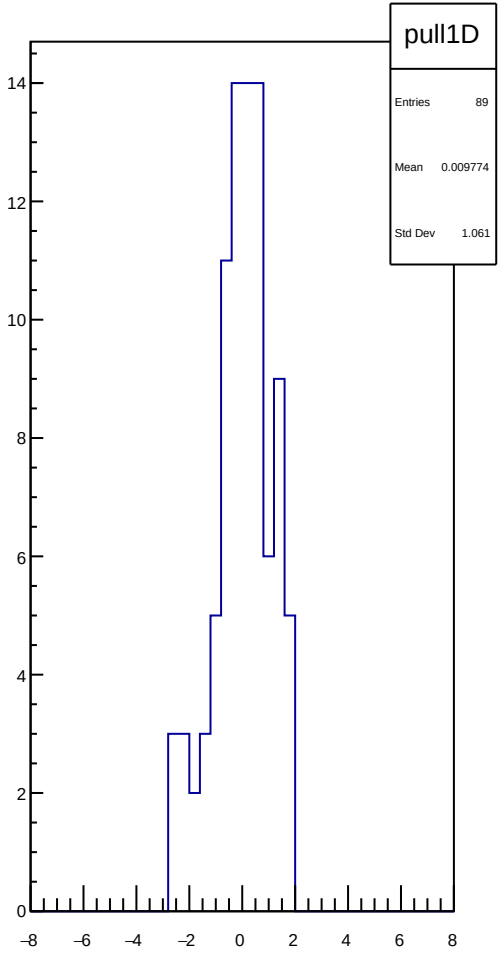

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.173e+06 / 88
p0 1.939e−11 ± 2.597e−14
1
0.8
0.6
0.4
0.2
0

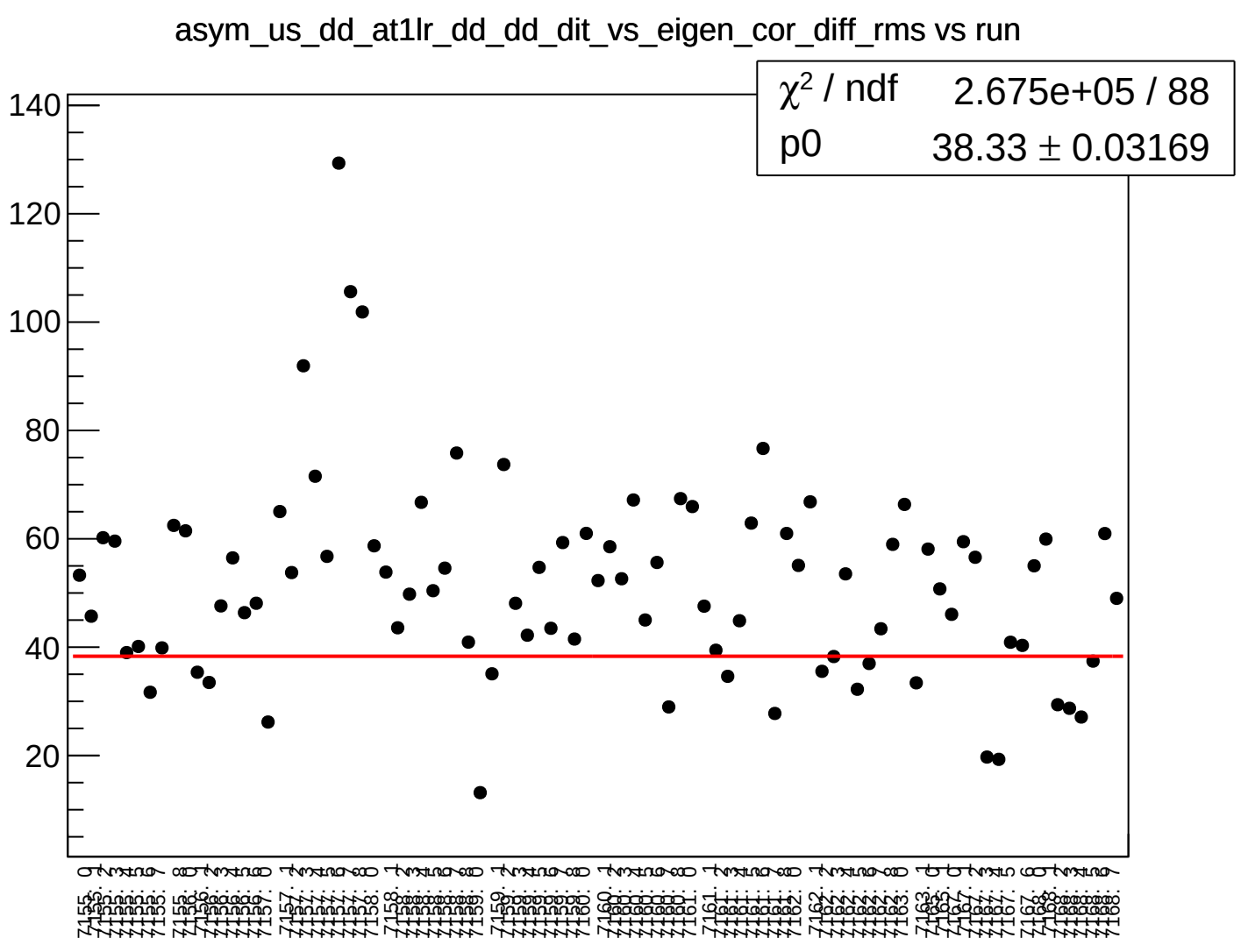

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −0.0247 ± 0.04482
pull
Entries 89
Mean −267.2
Std Dev 0

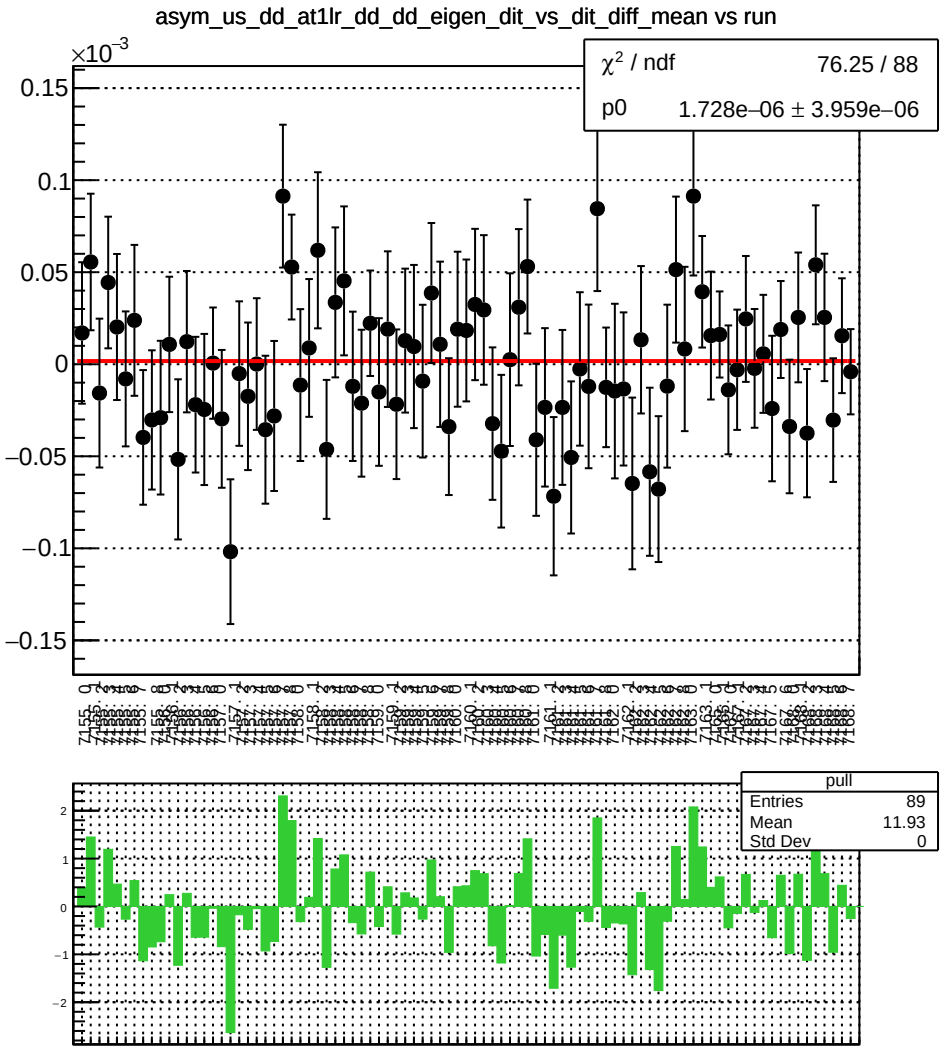

pull1D
Entries 89
Mean 0.009774
Std Dev 1.061

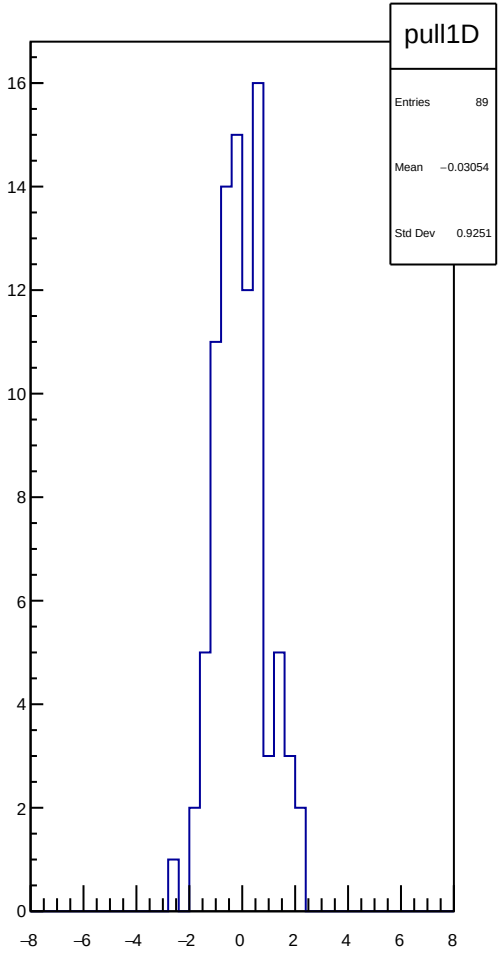

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 88
p0 38.33 ± 0.03169
140
120
100
80
60
40
20

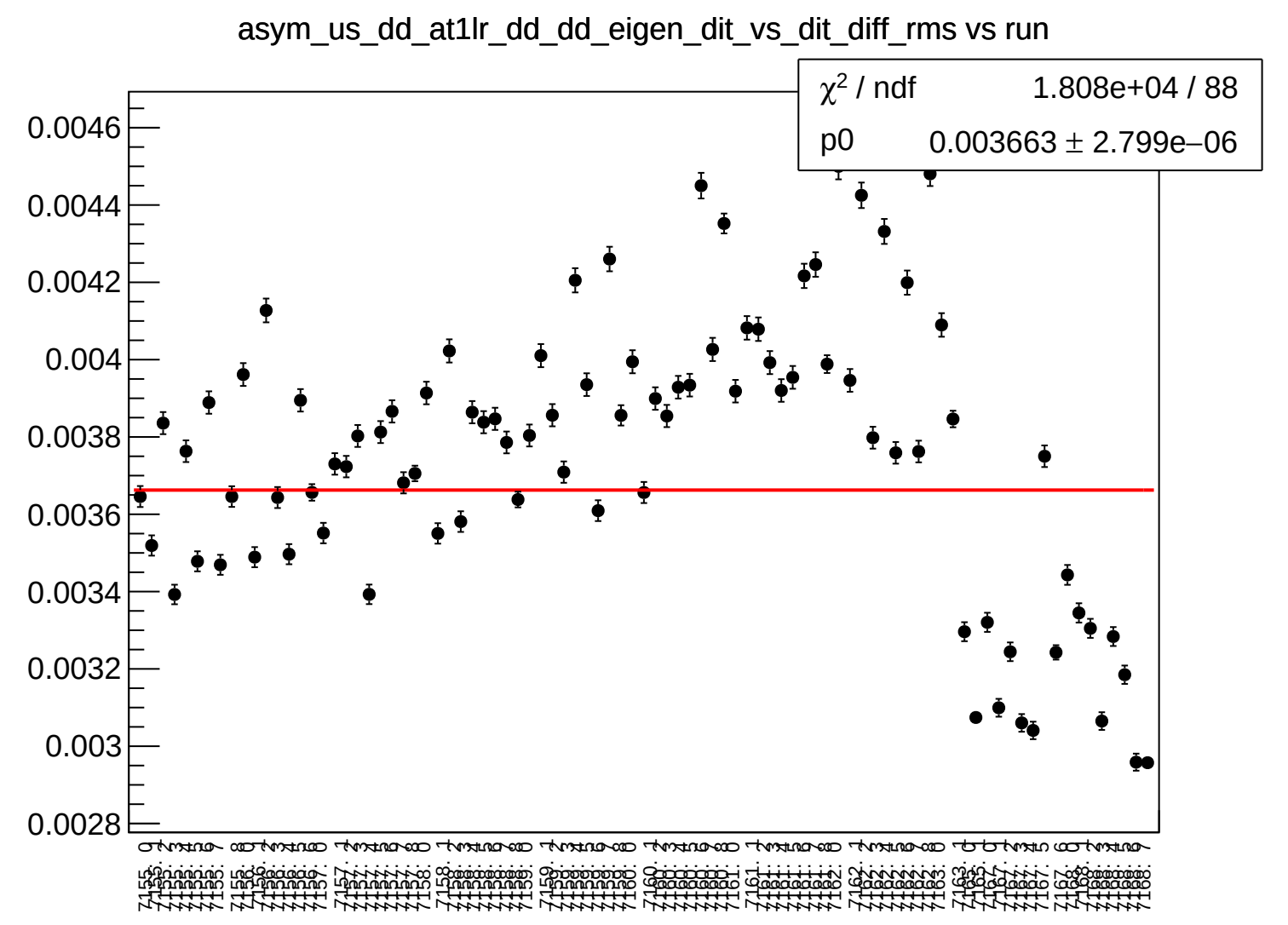

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −0.0247 ± 0.04482
pull
Entries 89
Mean −267.2
Std Dev 0

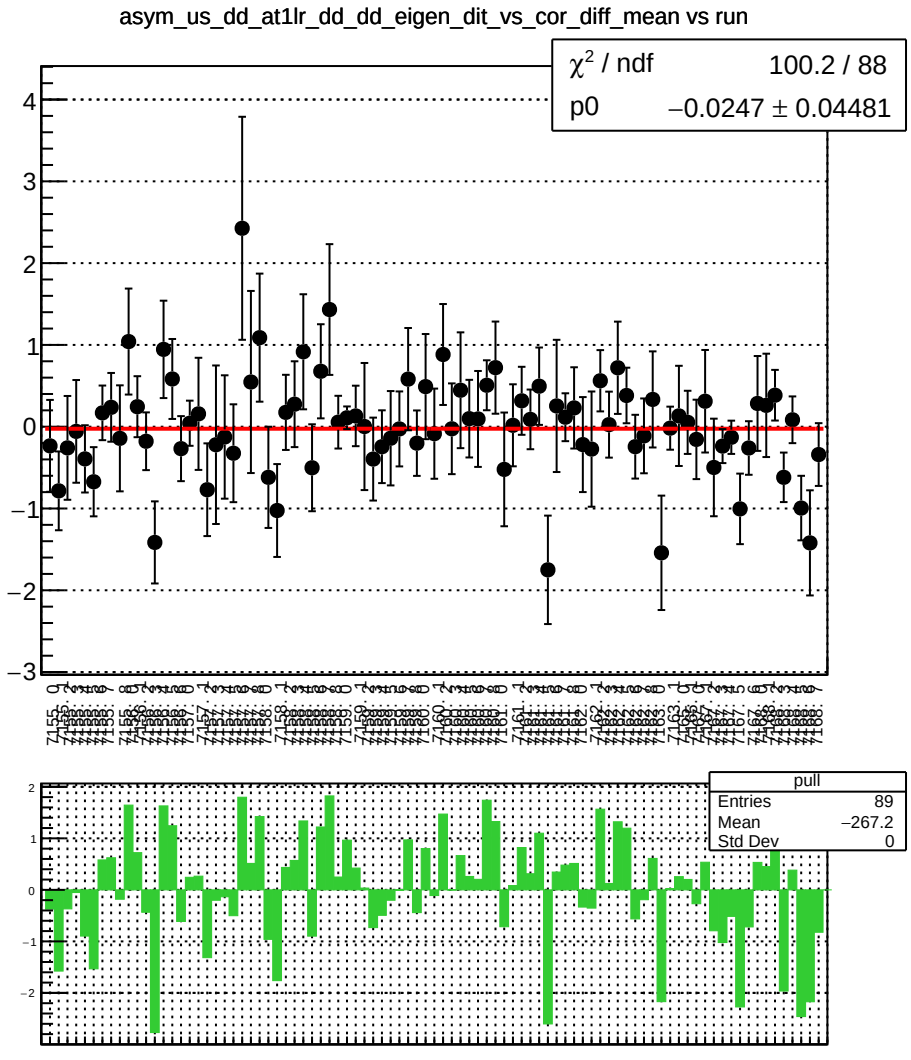

pull1D
Entries 89
Mean 0.009774
Std Dev 1.061

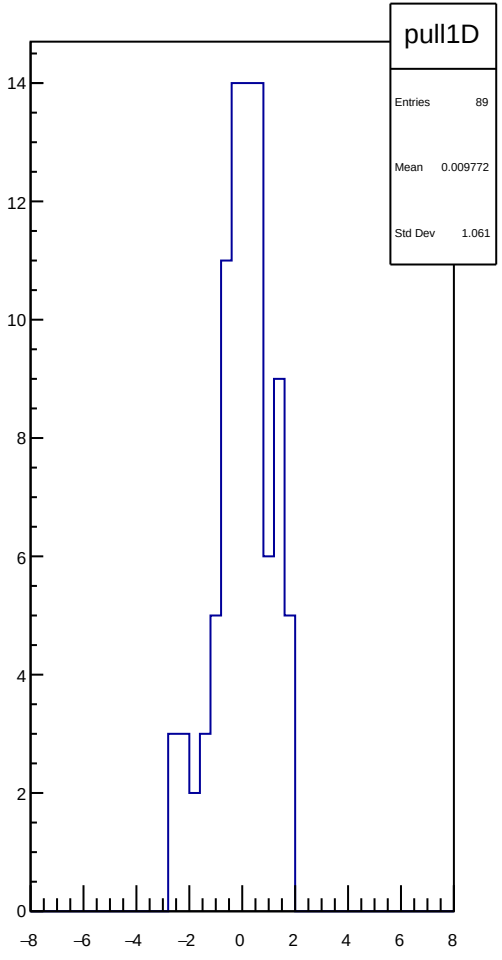

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 88
p0 38.33 ± 0.03169
140
120
100
80
60
40
20

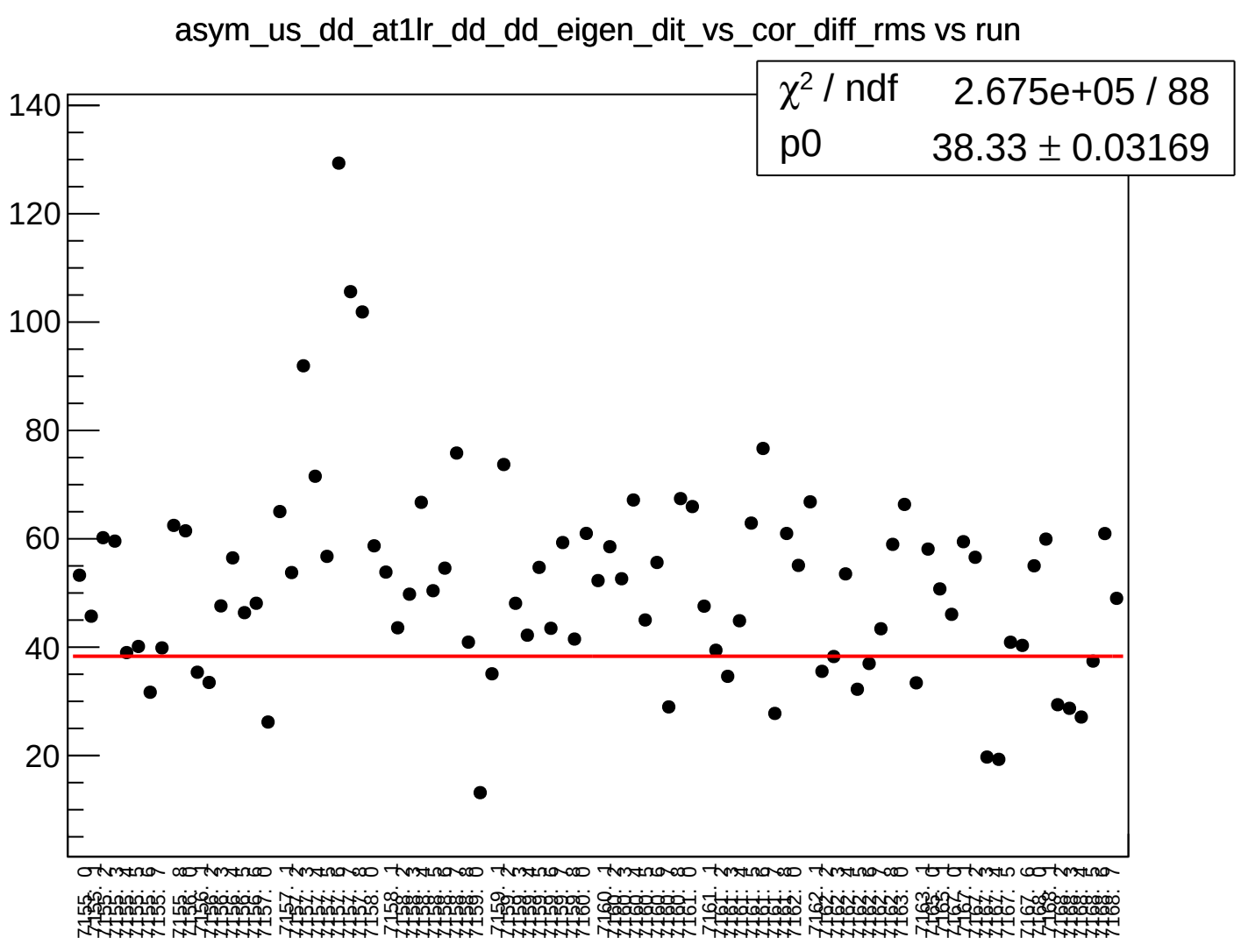

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.25 / 88
p0 1.728e−06 ± 3.959e−06
pull
Entries 89
Mean 11.93
Std Dev 0

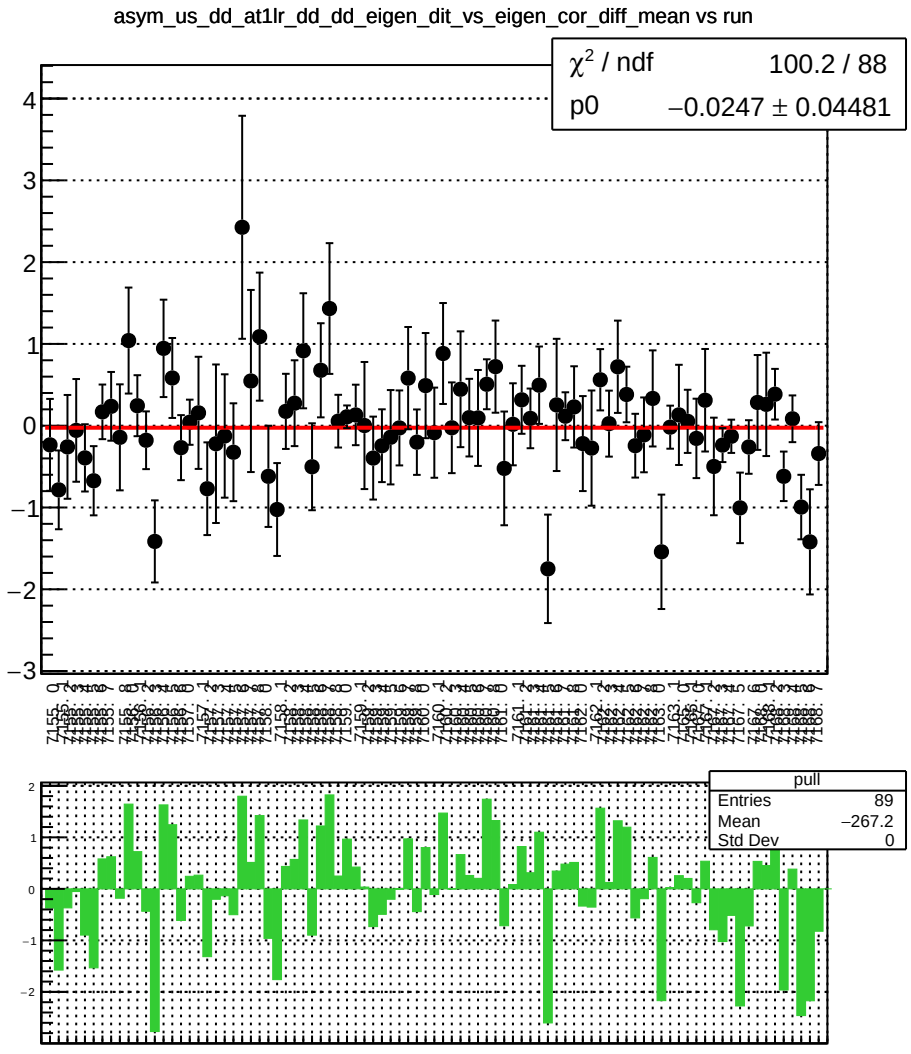

pull1D
Entries 89
Mean −0.03054
Std Dev 0.9251

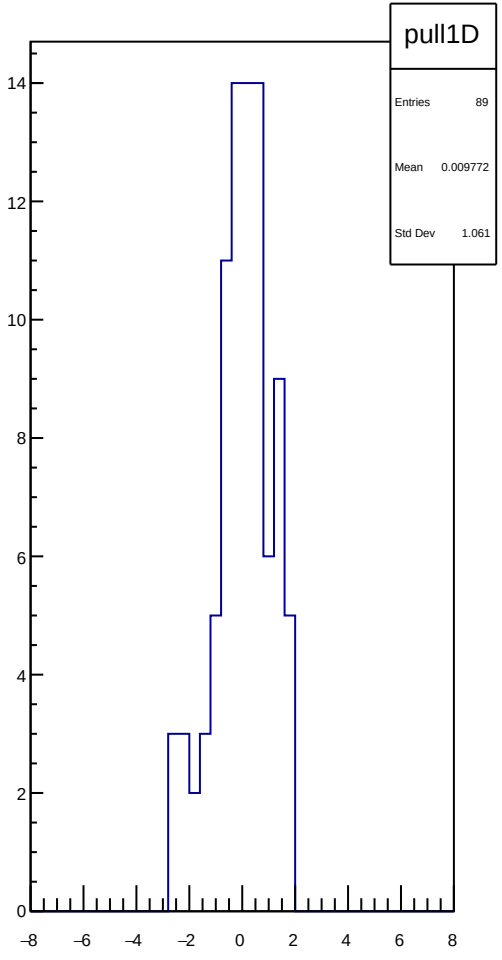

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.808e+04 / 88
p0 0.003663 ± 2.799e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

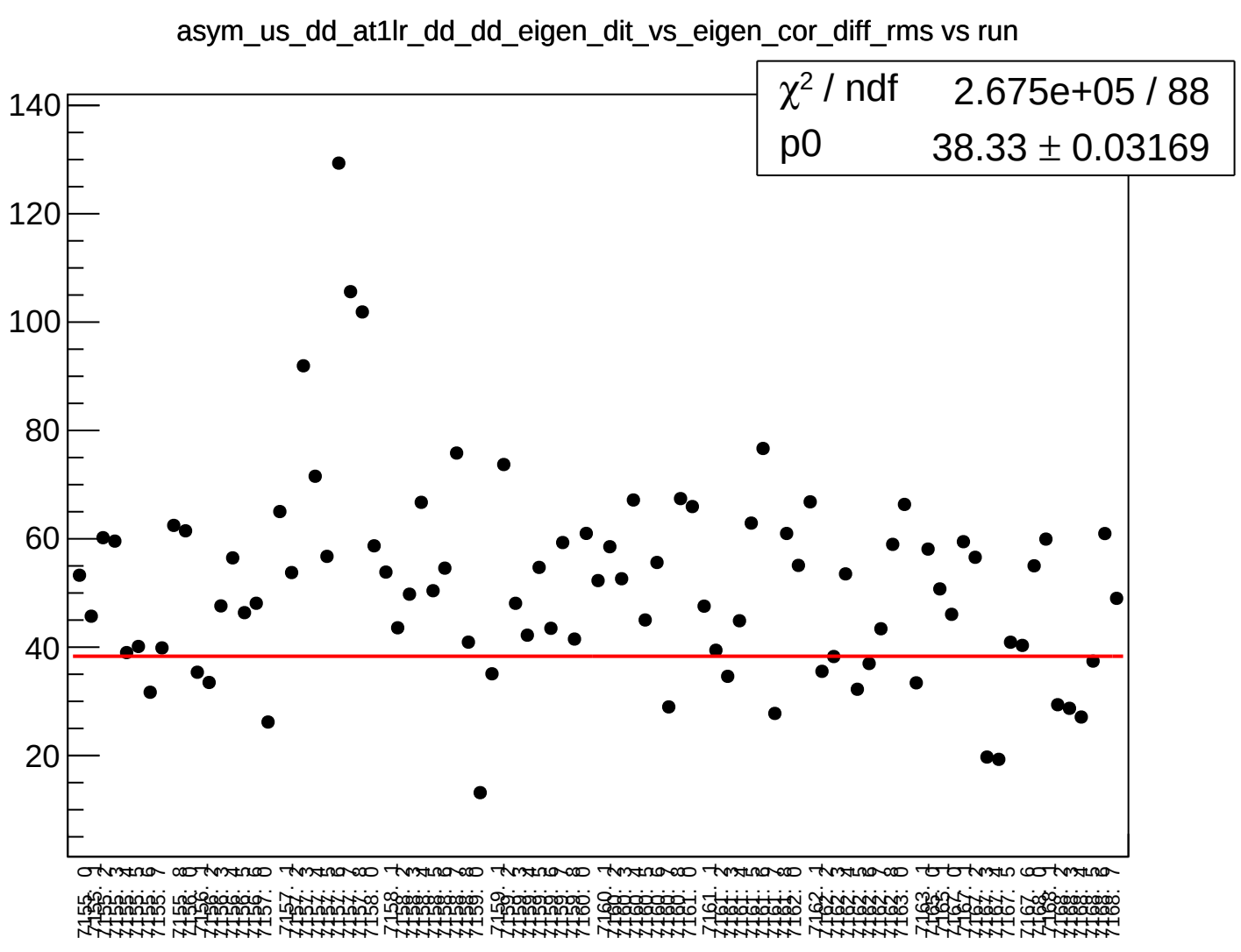

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −0.0247 ± 0.04481
pull
Entries 89
Mean −267.2
Std Dev 0

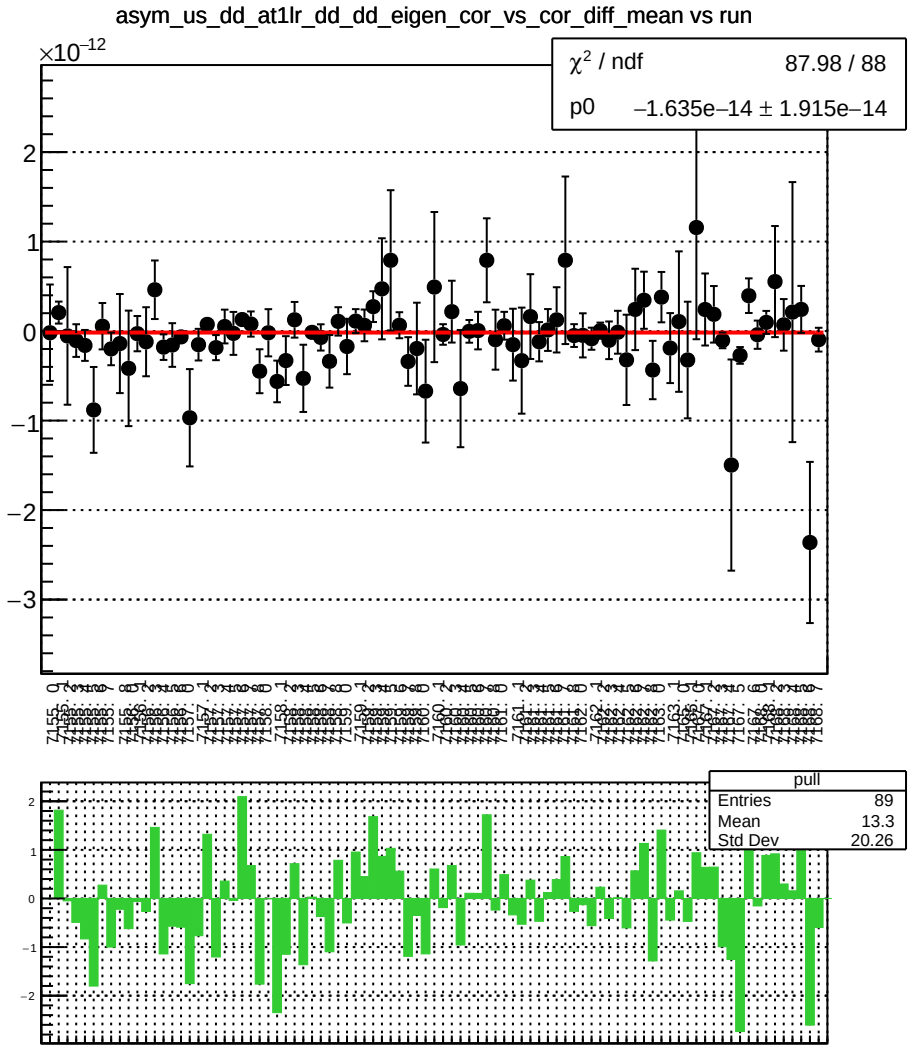

pull1D
Entries 89
Mean 0.009772
Std Dev 1.061

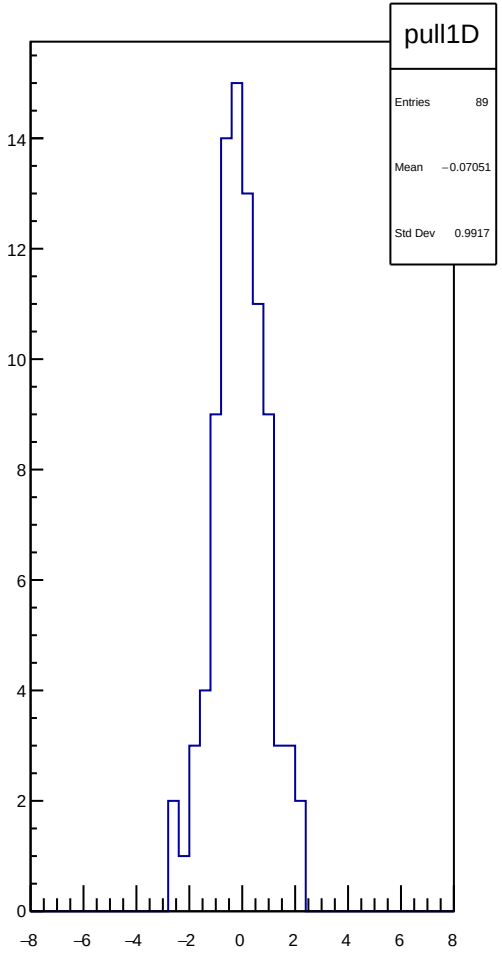

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 88
p0 38.33 ± 0.03169
140
120
100
80
60
40
20

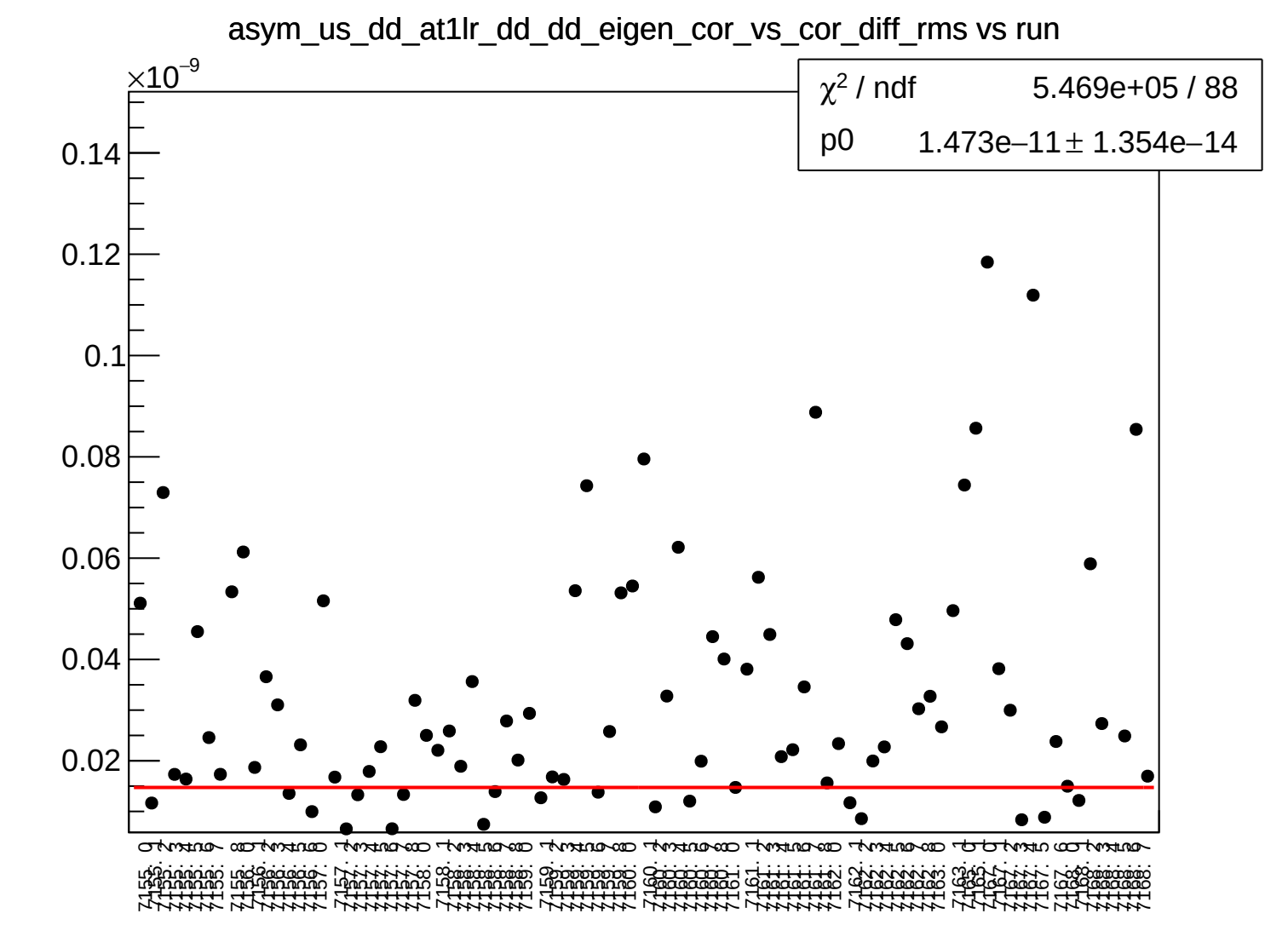

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.2 / 88
p0 −0.0247 ± 0.04481
pull
Entries 89
Mean −267.2
Std Dev 0

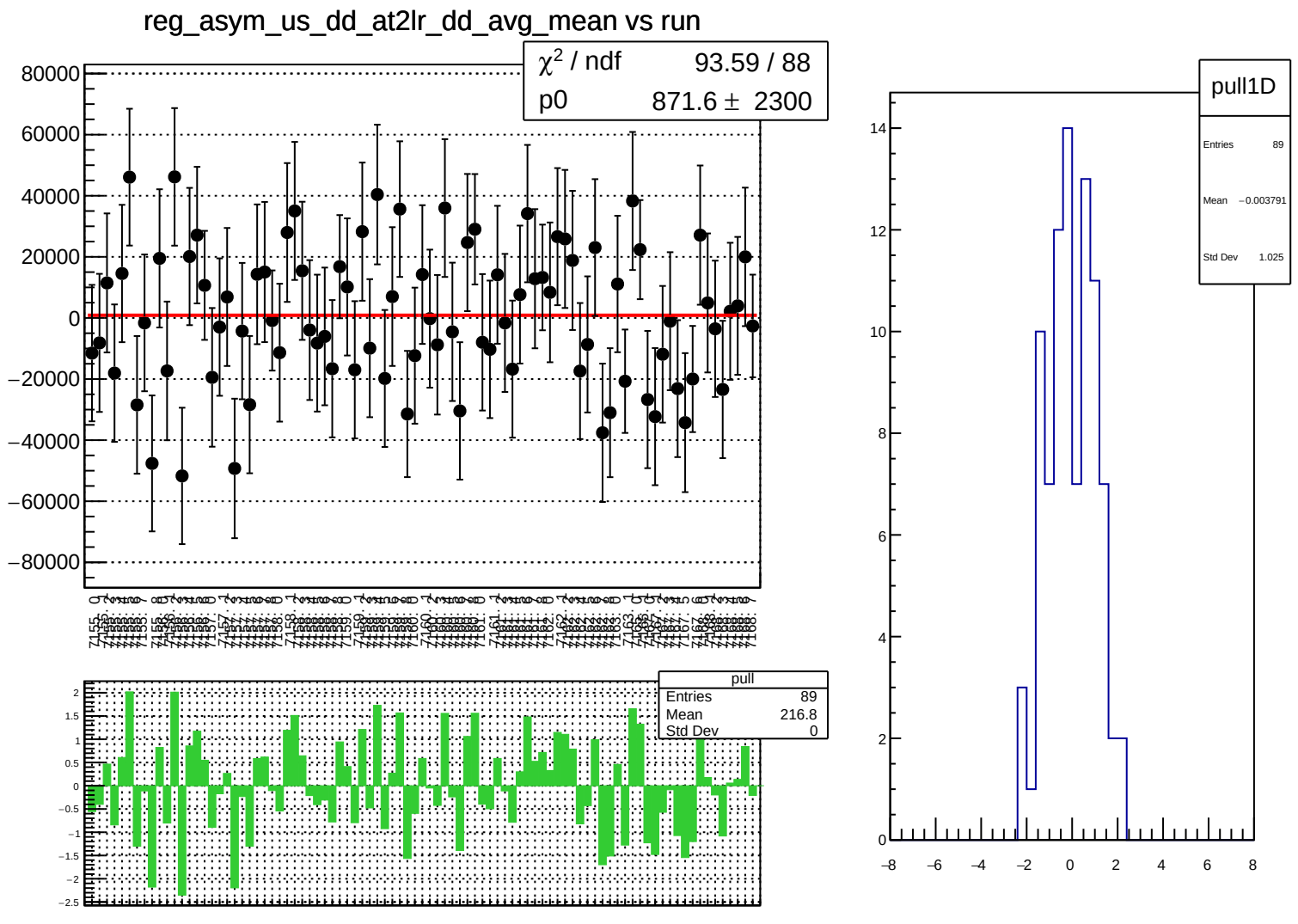

pull1D
Entries 89
Mean 0.009772
Std Dev 1.061

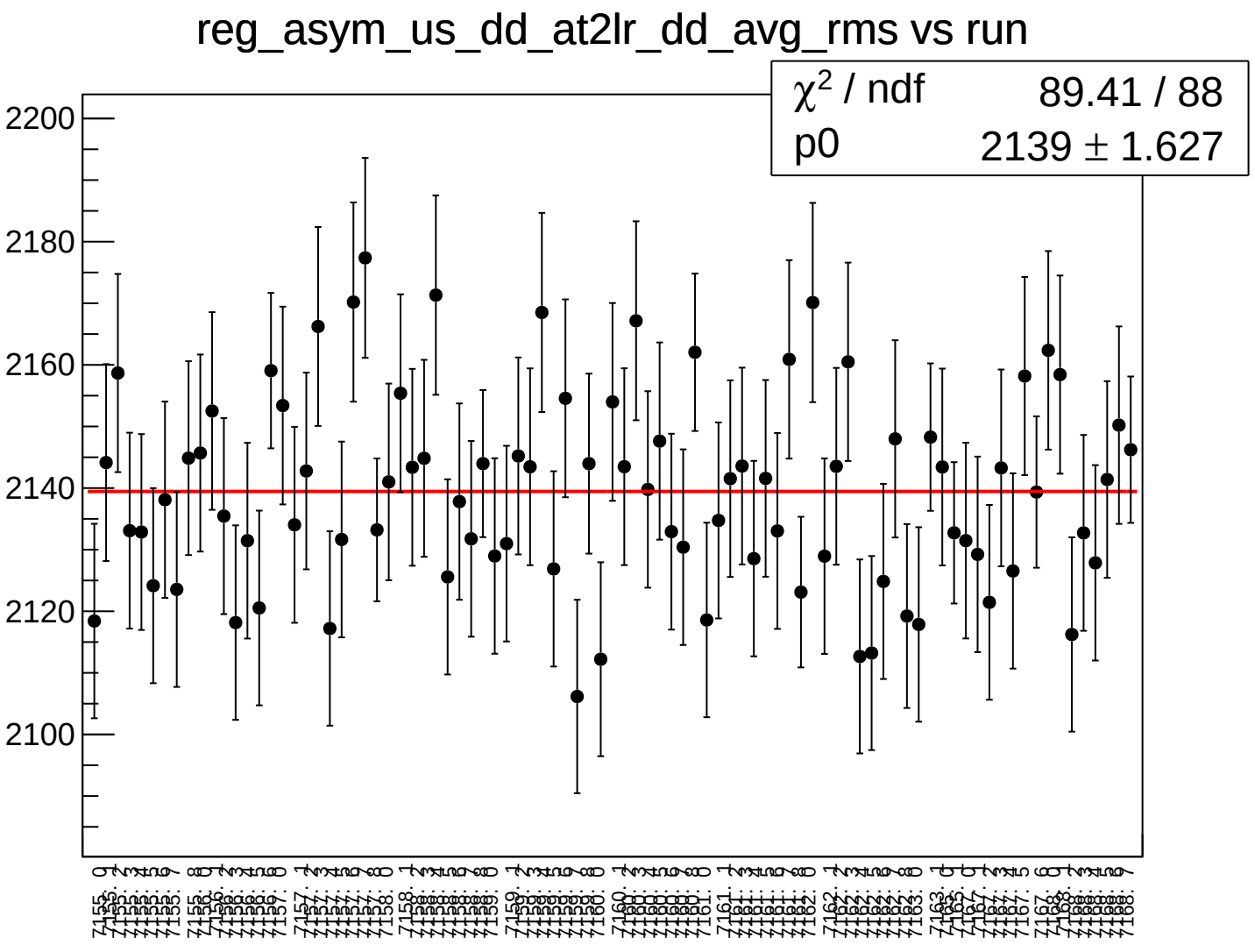

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.675e+05 / 88
p0 38.33 ± 0.03169
140
120
100
80
60
40
20

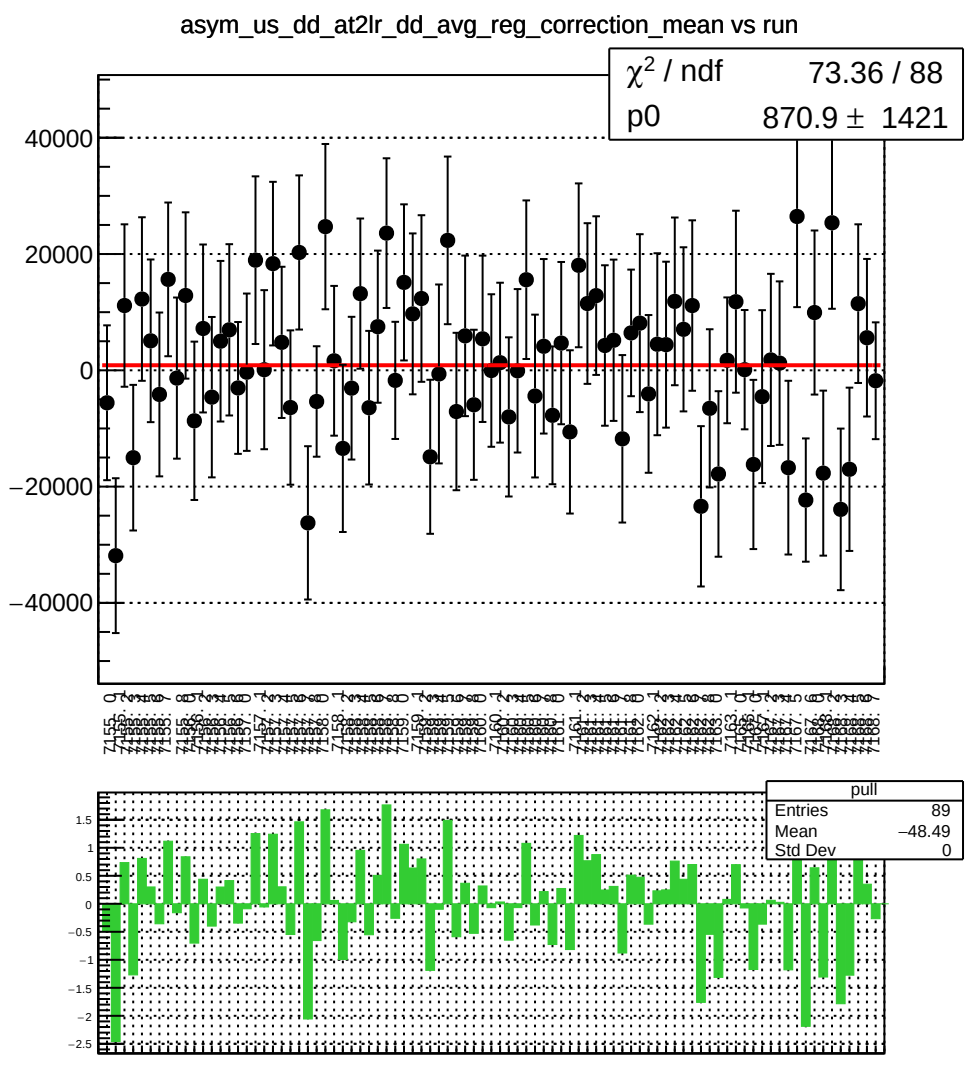

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.98 / 88
p0 −1.635e−14 ± 1.915e−14
pull
Entries 89
Mean 13.3
Std Dev 20.26

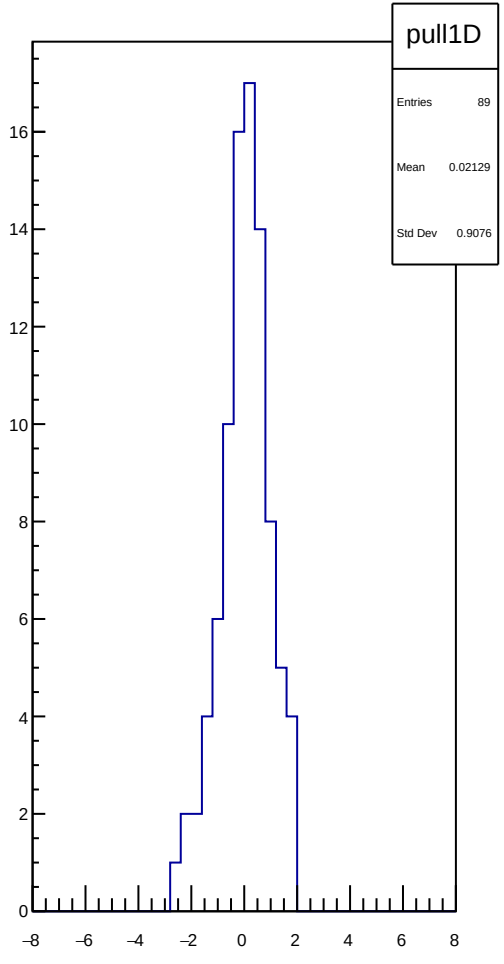

pull1D
Entries 89
Mean −0.07051
Std Dev 0.9917

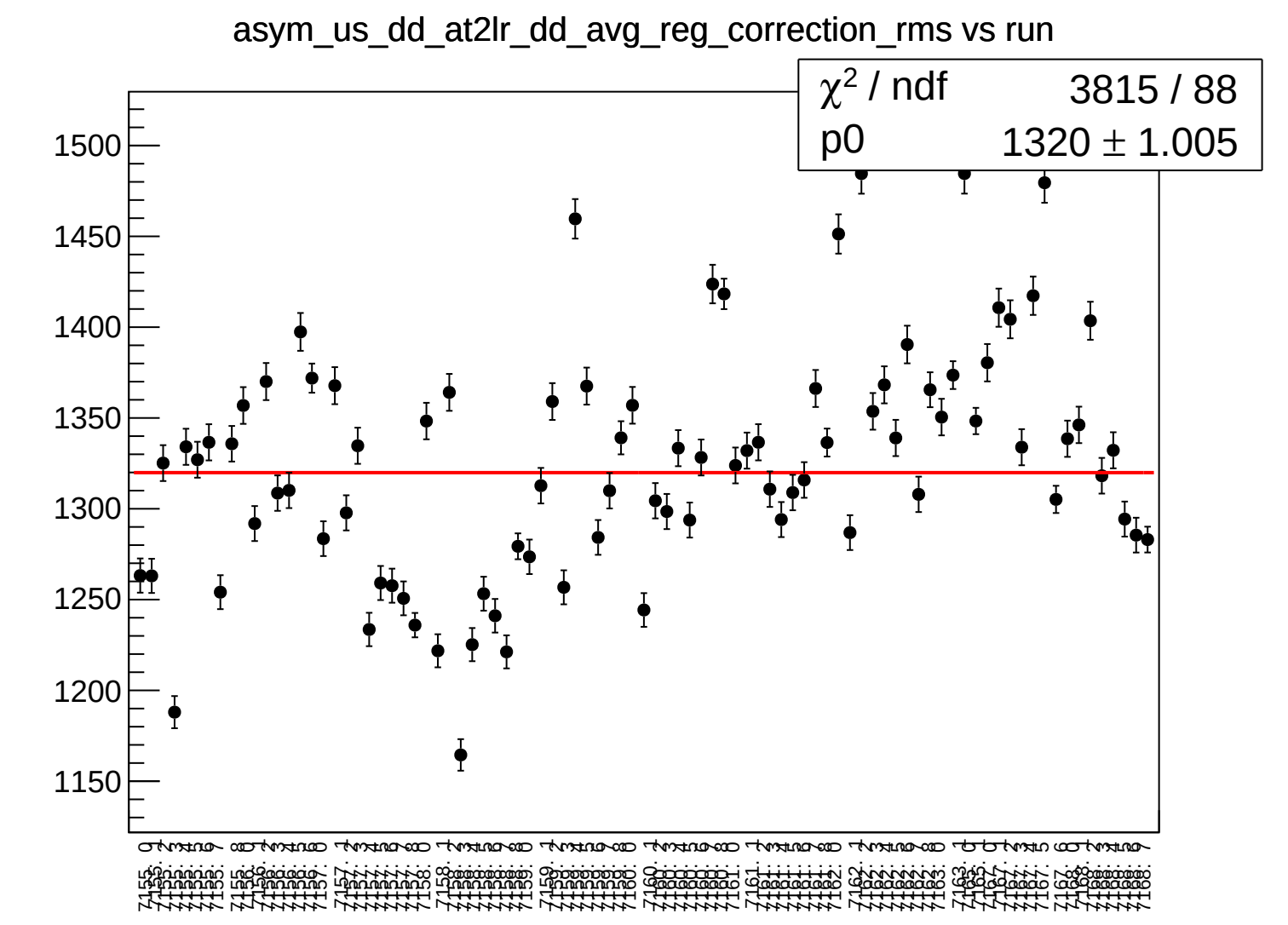

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.469e+05 / 88
p0 1.473e−11 ± 1.354e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

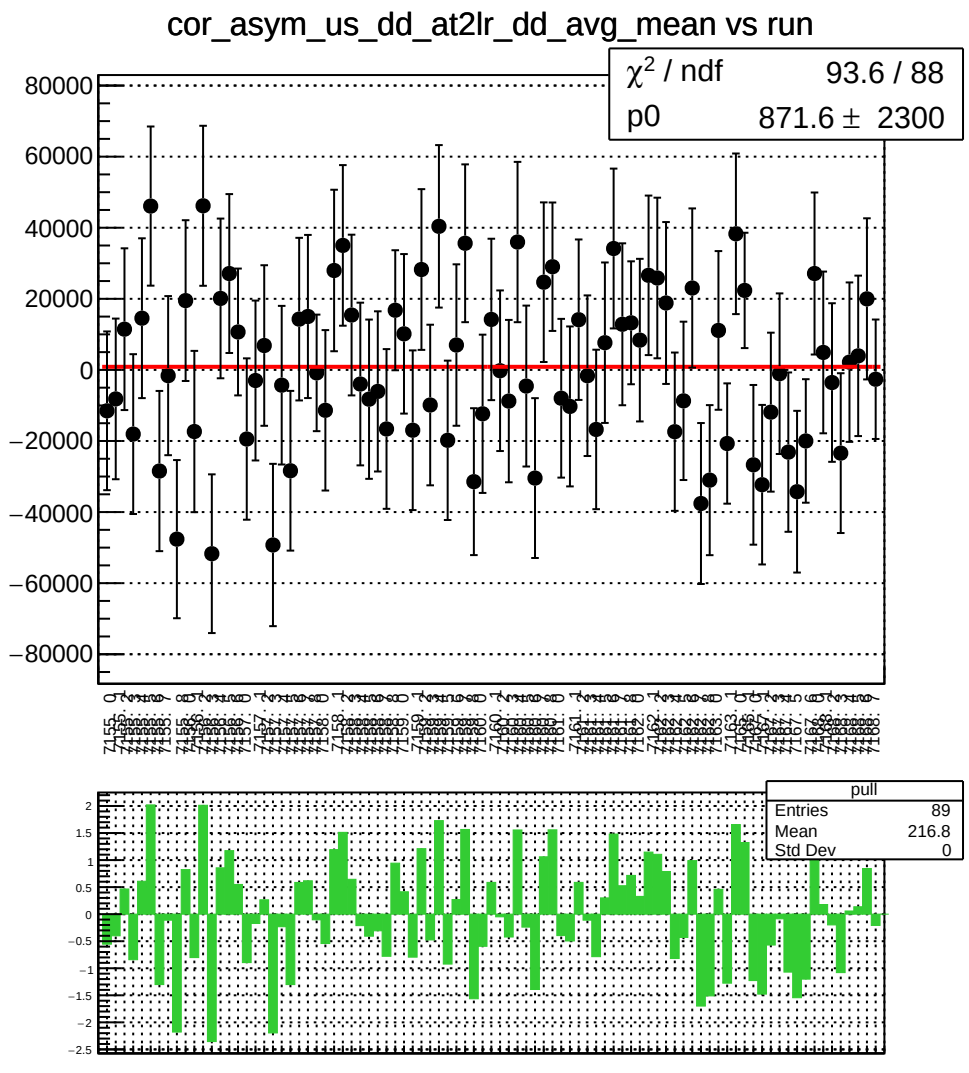

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 93.59 / 88
p0 871.6 ± 2300
pull
Entries 89
Mean 216.8
Std Dev 0
pull1D
Entries 89
Mean −0.003791
Std Dev 1.025

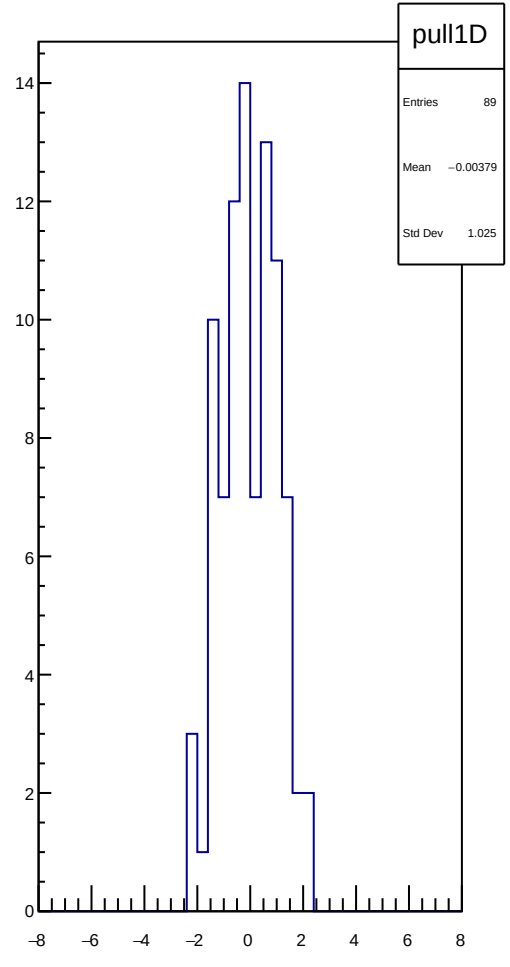

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 89.41 / 88
p0 2139 ± 1.627
2200
2180
2160
2140
2120
2100

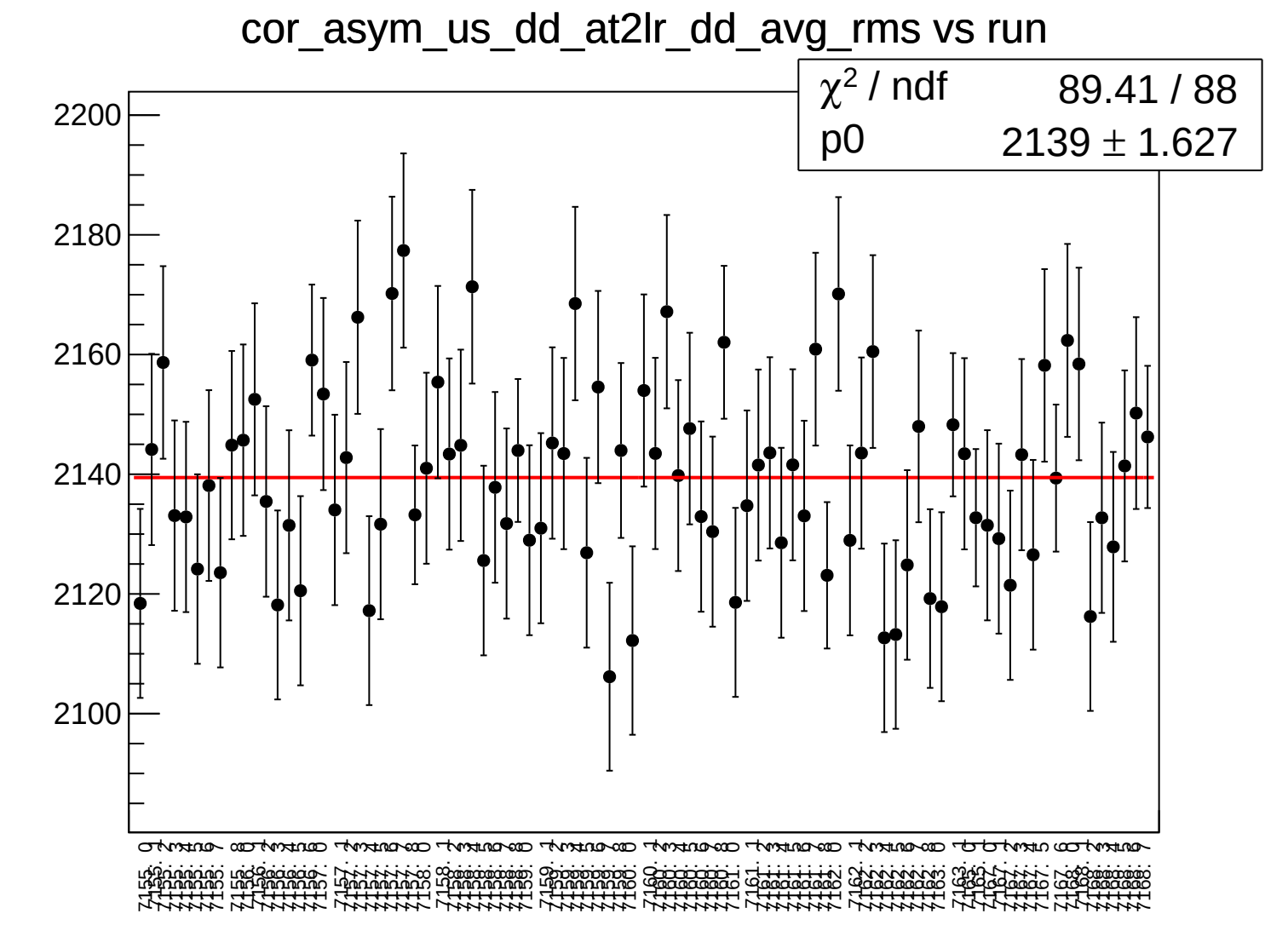

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
χ² / ndf 73.36 / 88
p0 870.9 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −48.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

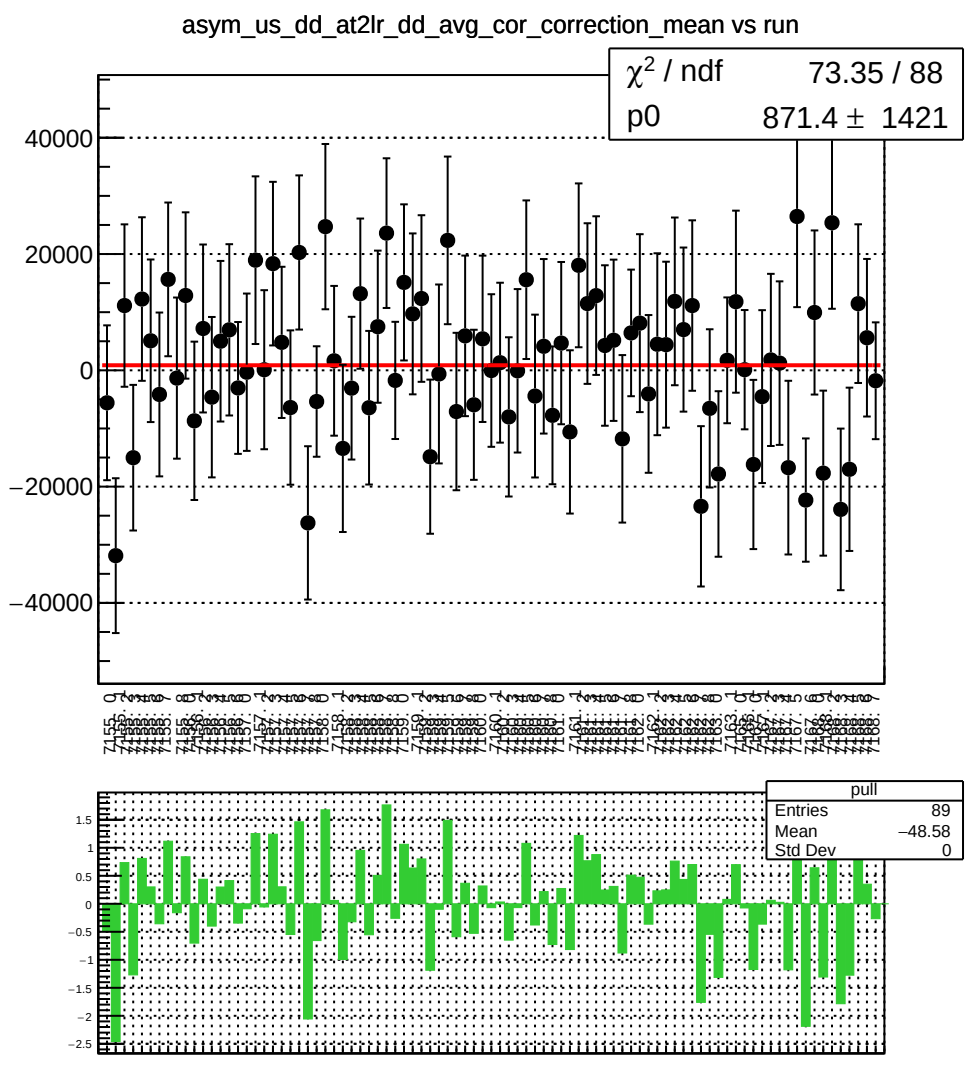

pull1D
Entries 89
Mean 0.02129
Std Dev 0.9076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

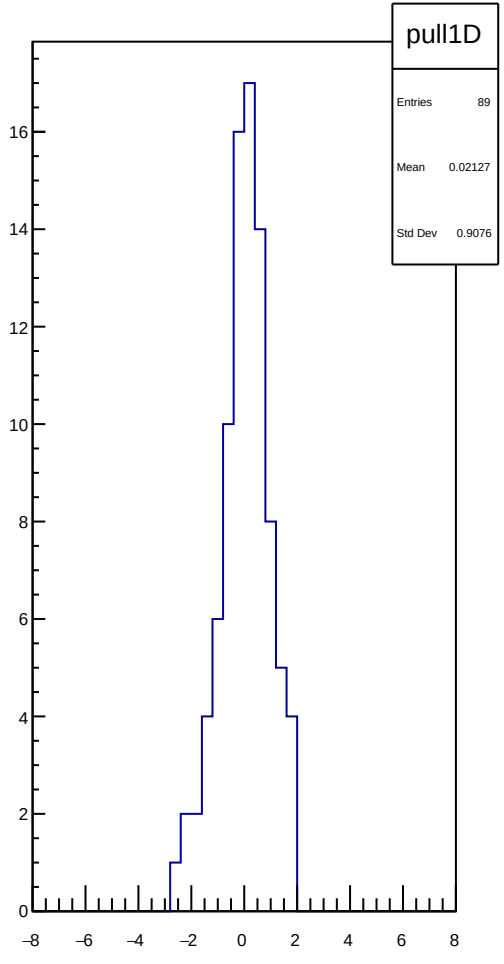

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 3815 / 88
p0 1320 ± 1.005
1500
1450
1400
1350
1300
1250
1200
1150

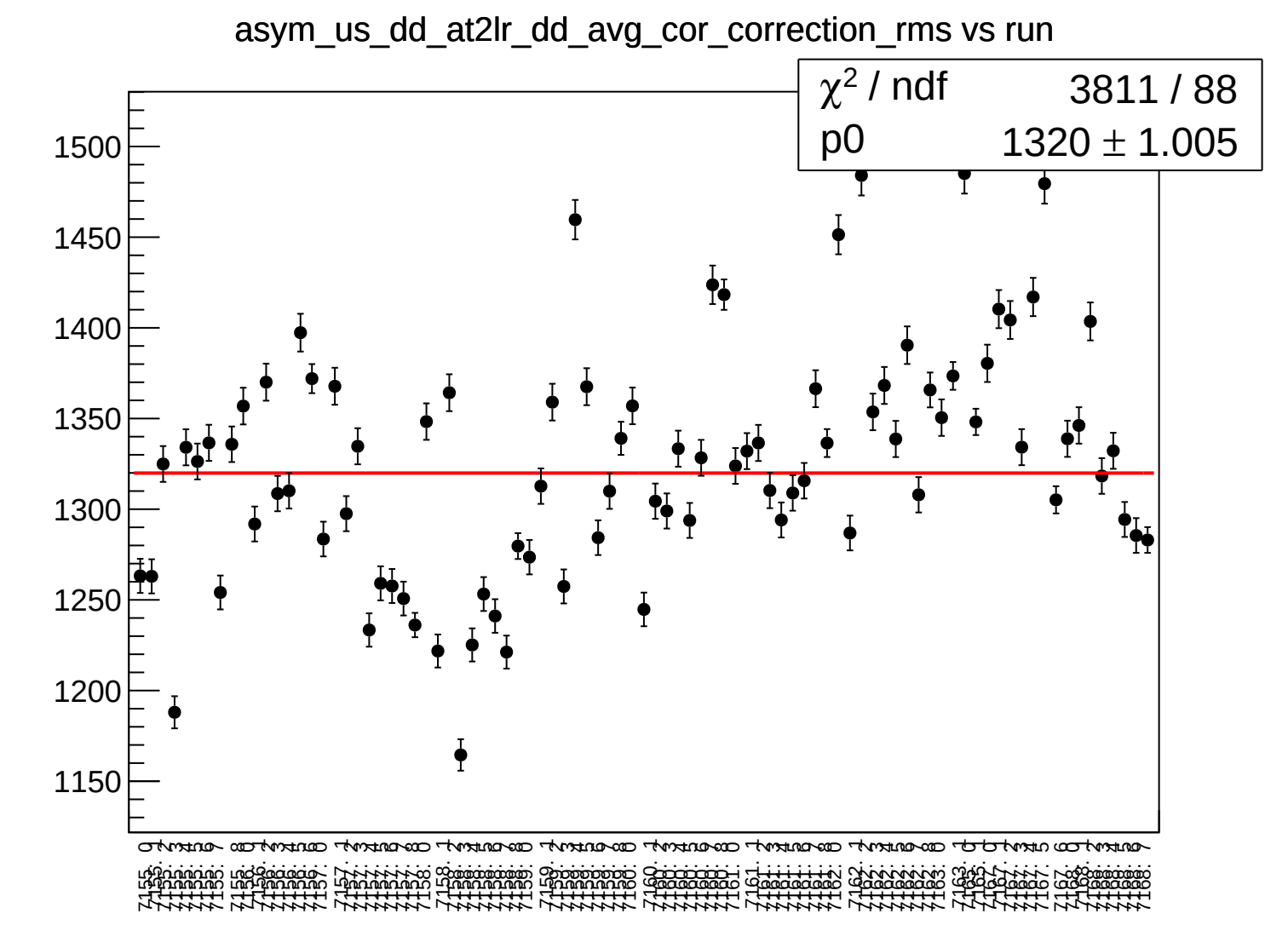

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 93.6 / 88
p0 871.6 ± 2300
pull
Entries 89
Mean 216.8
Std Dev 0

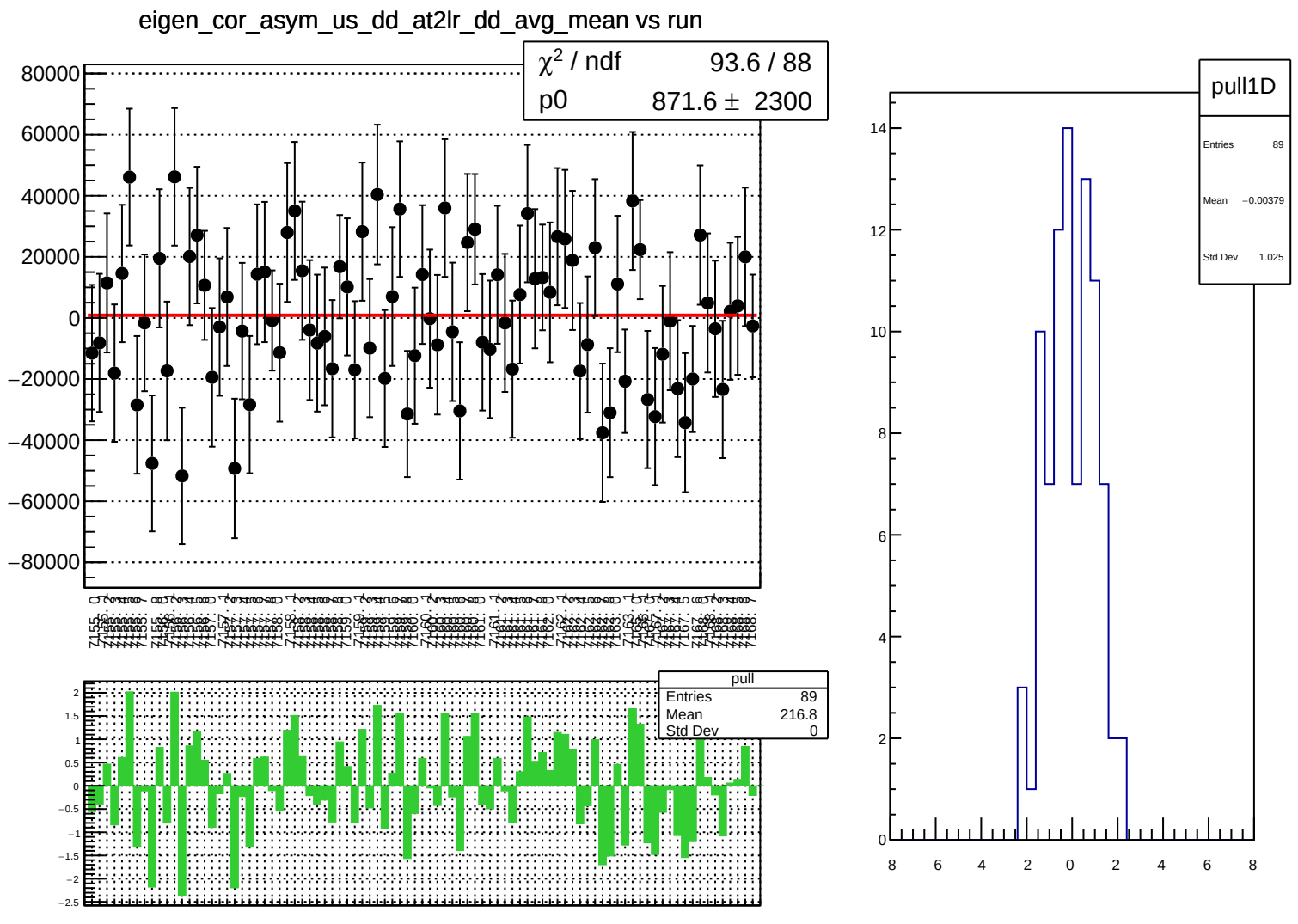

pull1D
Entries 89
Mean −0.00379
Std Dev 1.025

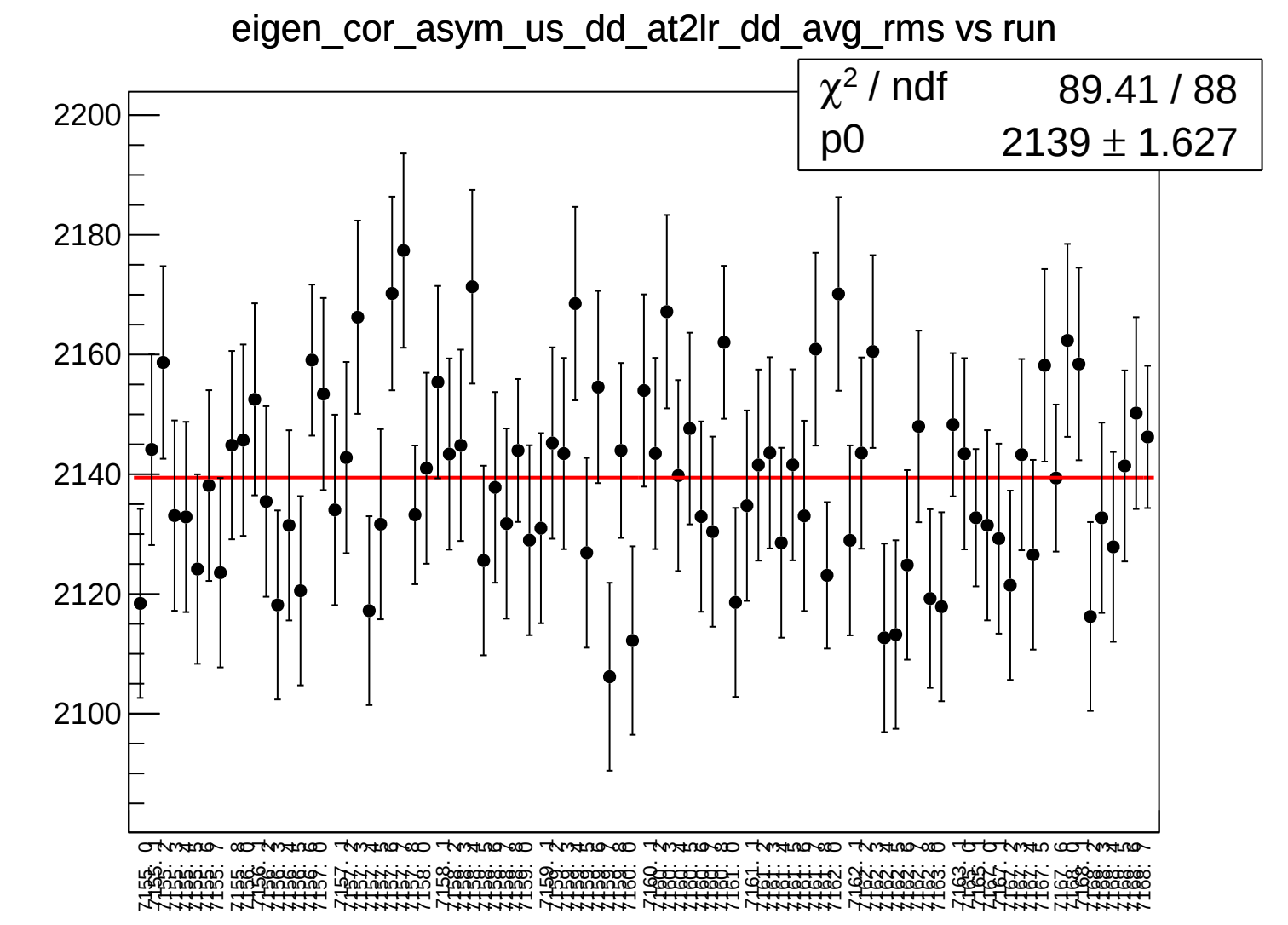

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 89.41 / 88
p0 2139 ± 1.627
2200
2180
2160
2140
2120
2100

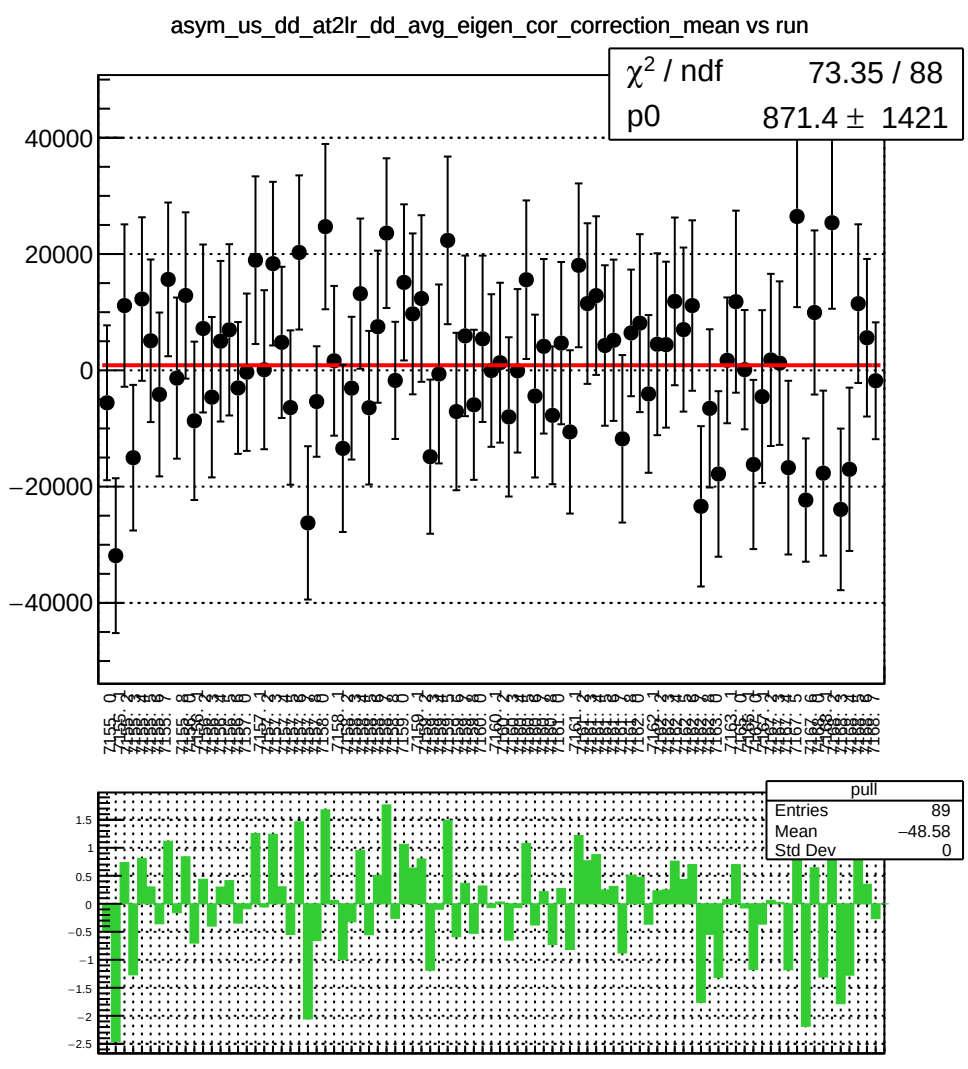

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
χ² / ndf 73.35 / 88
p0 871.4 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −48.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

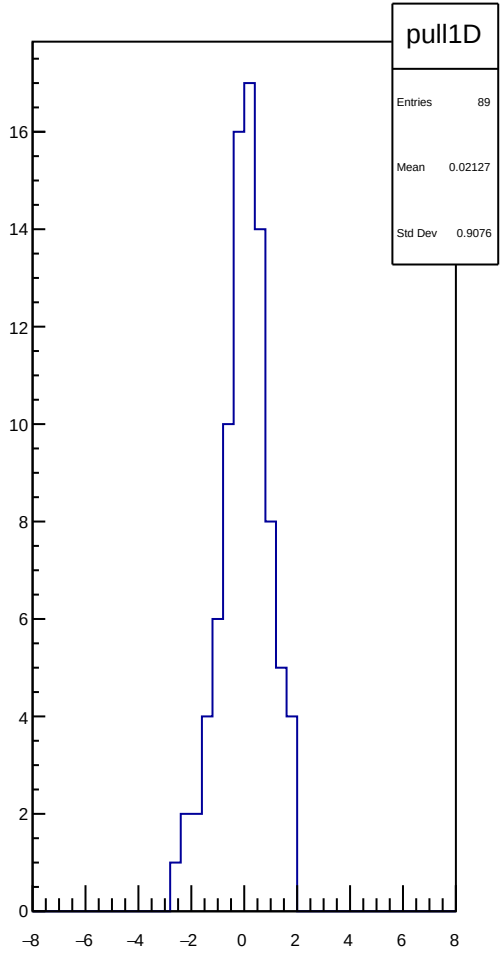

pull1D
Entries 89
Mean 0.02127
Std Dev 0.9076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

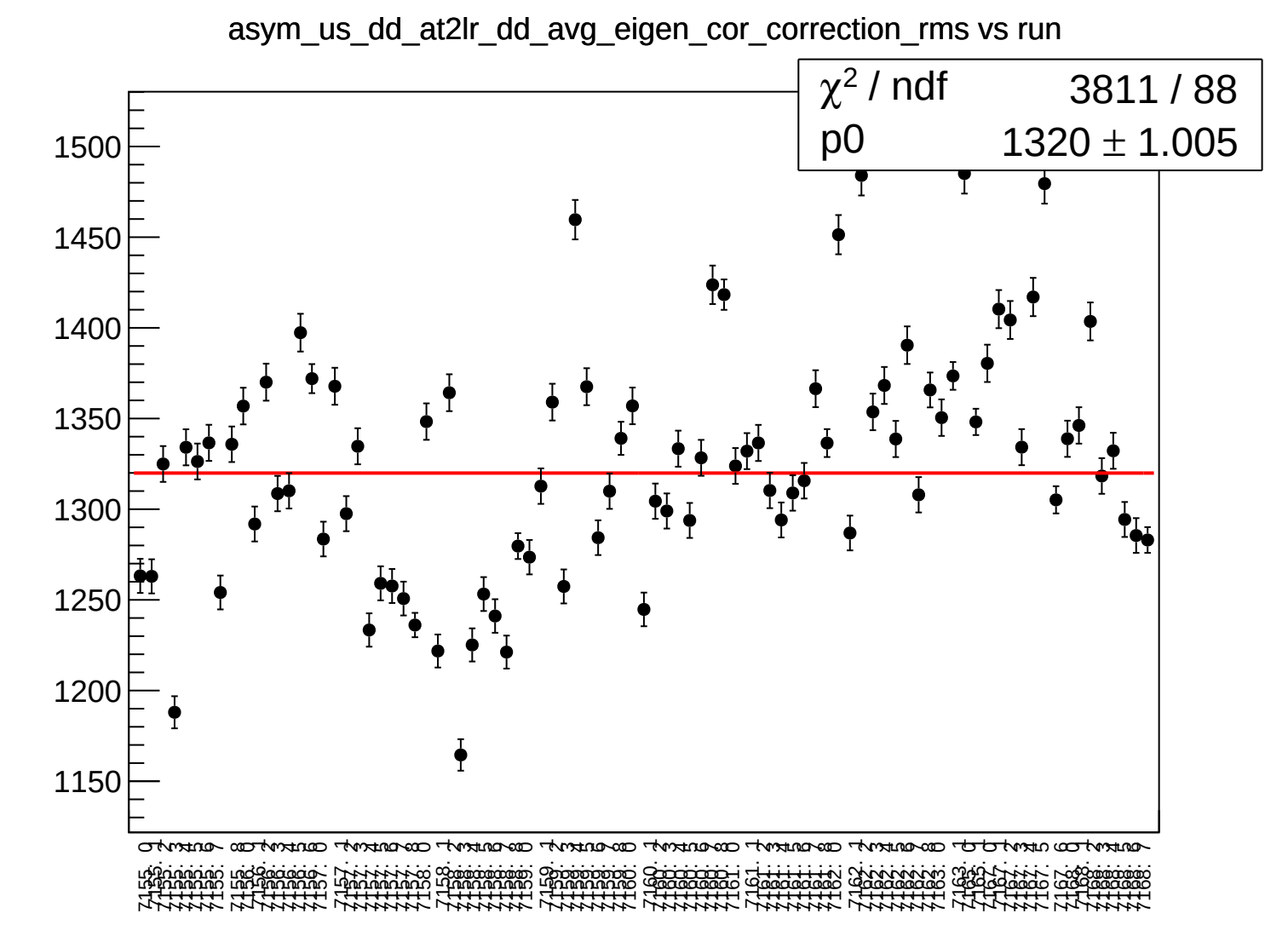

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 3811 / 88
p0 1320 ± 1.005
1500
1450
1400
1350
1300
1250
1200
1150

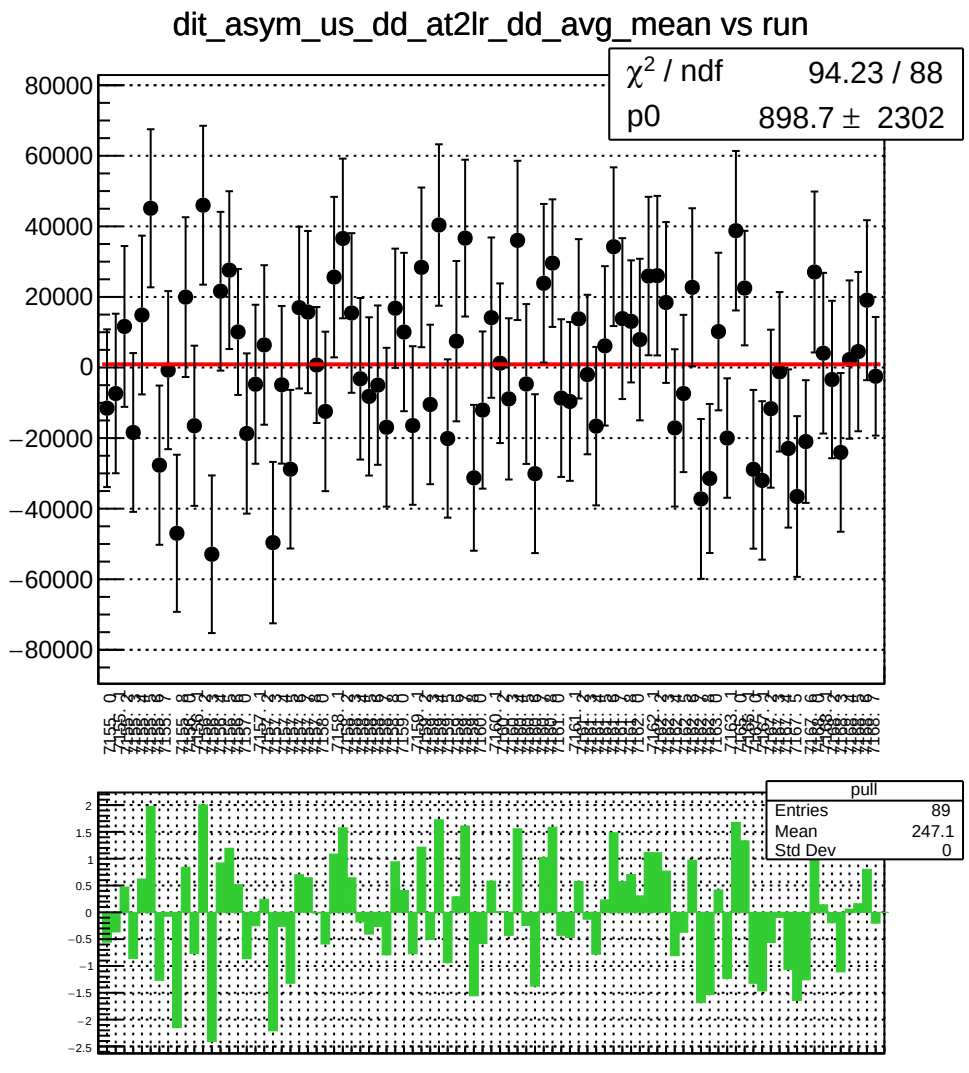

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 93.6 / 88
p0 871.6 ± 2300
pull
Entries 89
Mean 216.8
Std Dev 0
pull1D
Entries 89
Mean −0.00379
Std Dev 1.025

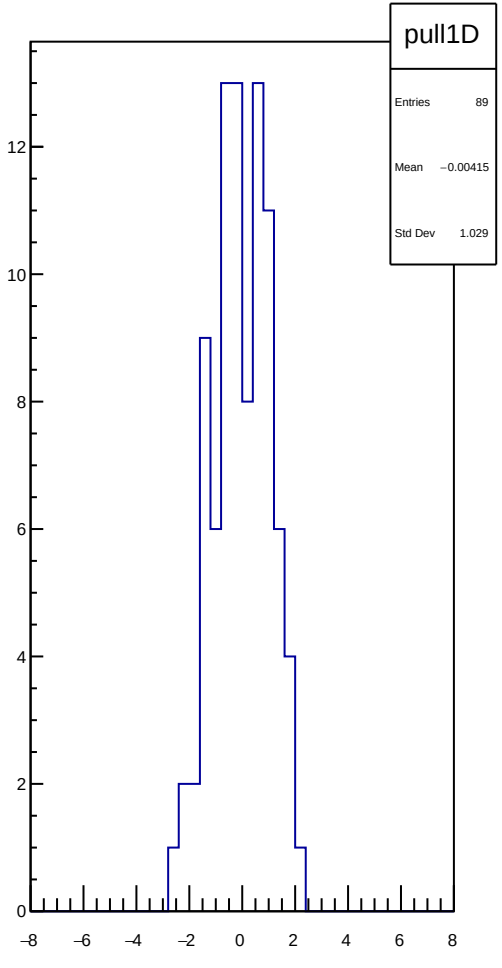

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 89.41 / 88
p0 2139 ± 1.627
2200
2180
2160
2140
2120
2100

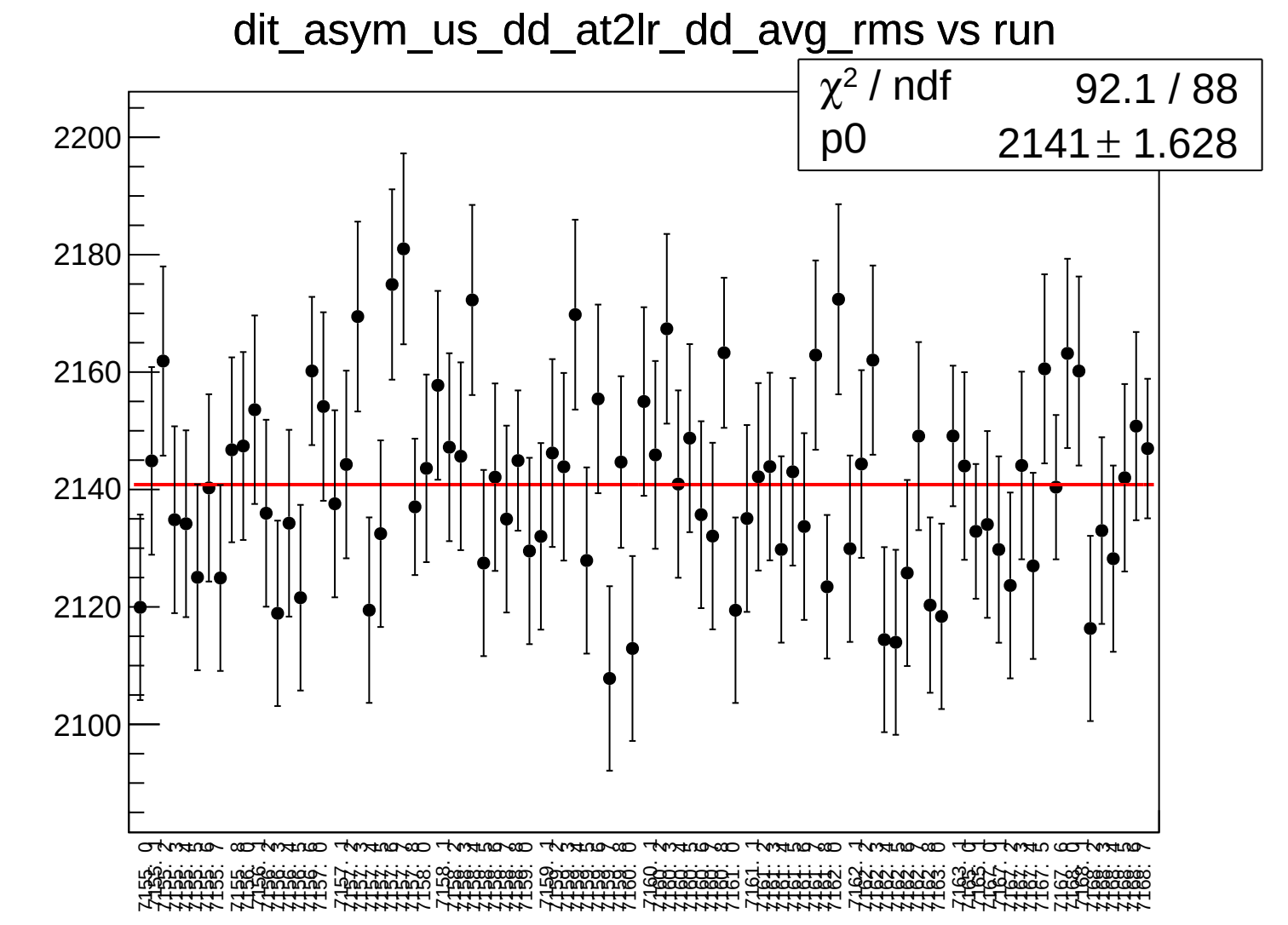

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 73.35 / 88
p0 871.4 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −48.58
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

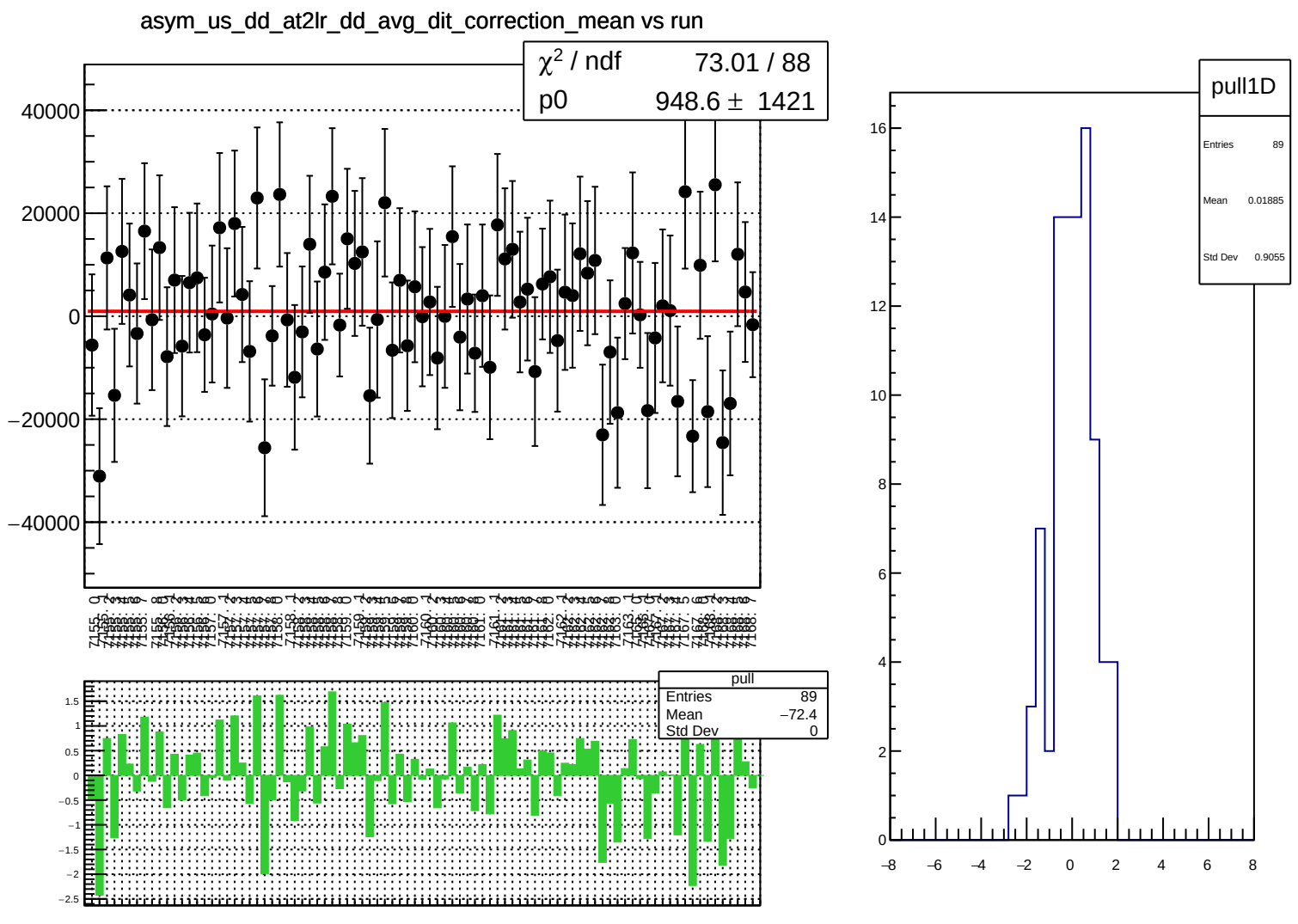

pull1D
Entries 89
Mean 0.02127
Std Dev 0.9076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

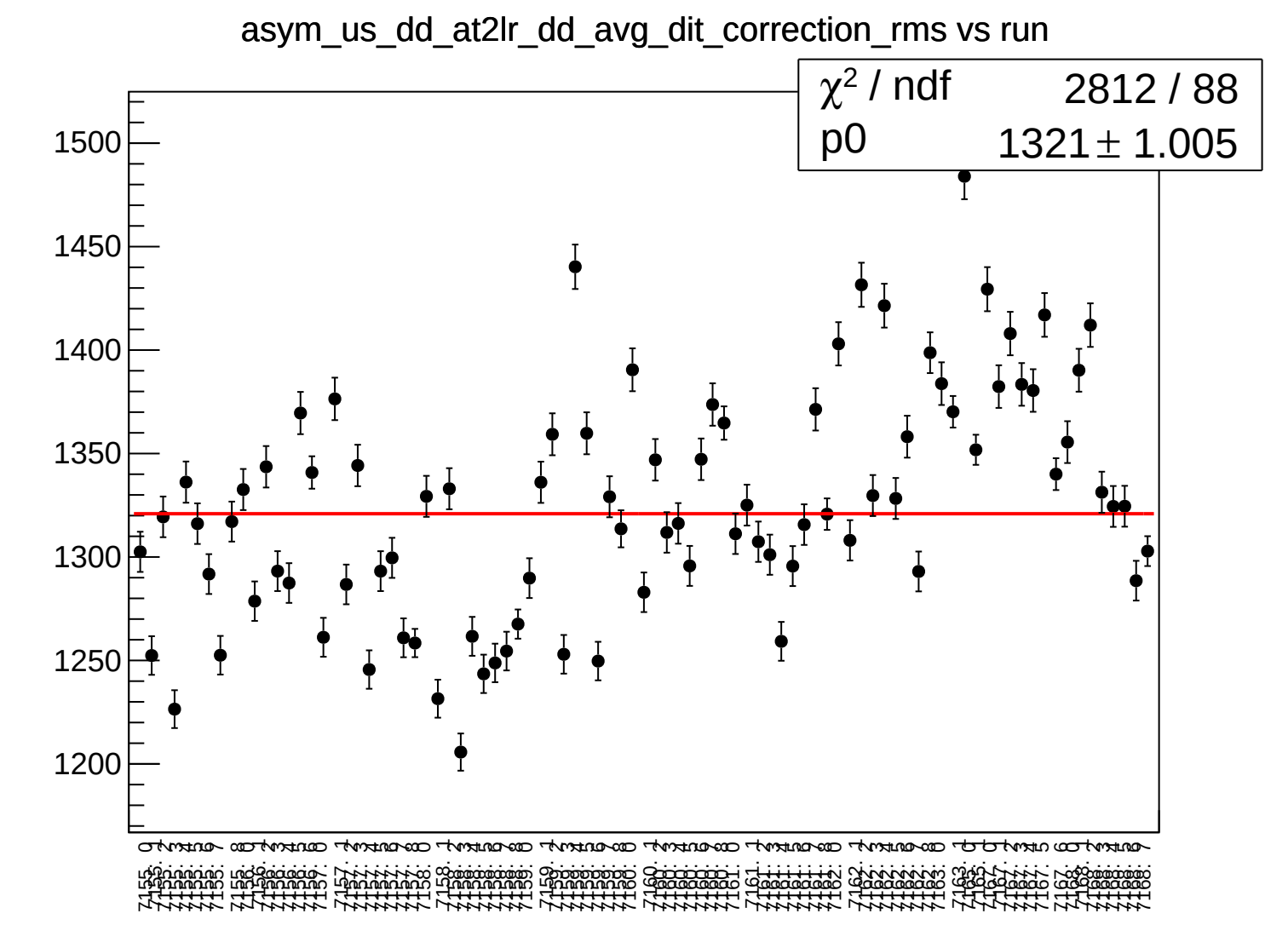

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3811 / 88
p0 1320 ± 1.005
1500
1450
1400
1350
1300
1250
1200
1150

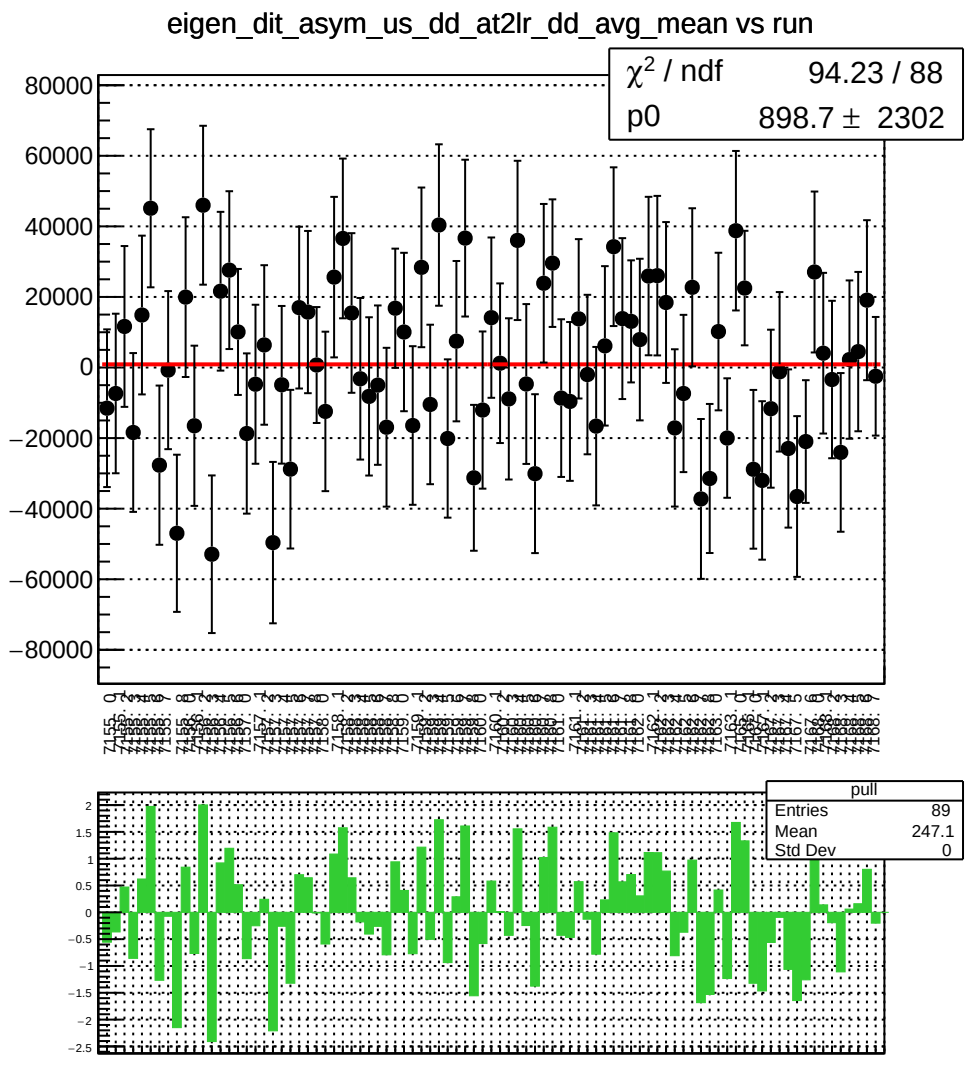

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.23 / 88
p0 898.7 ± 2302
pull
Entries 89
Mean 247.1
Std Dev 0

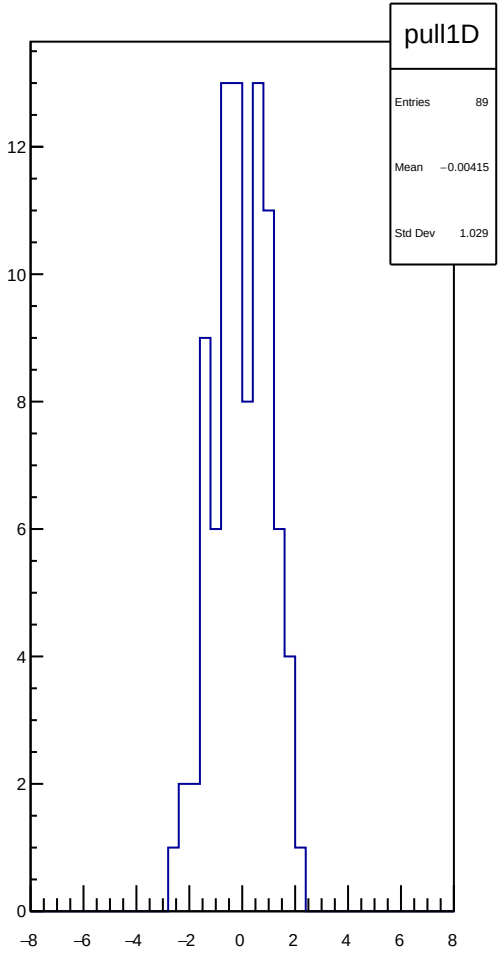

pull1D
Entries 89
Mean −0.00415
Std Dev 1.029

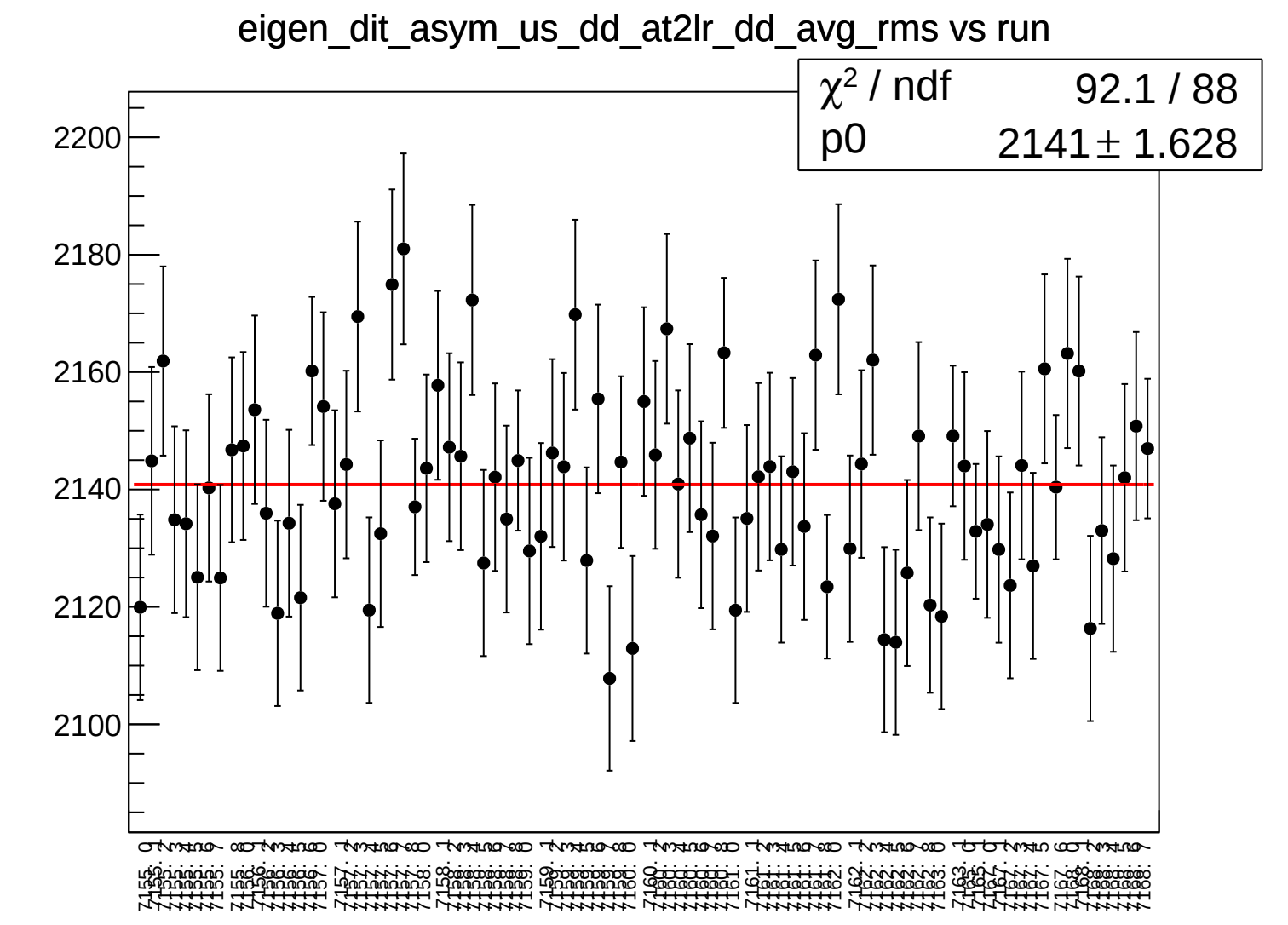

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 92.1 / 88
p0 2141 ± 1.628
2200
2180
2160
2140
2120
2100

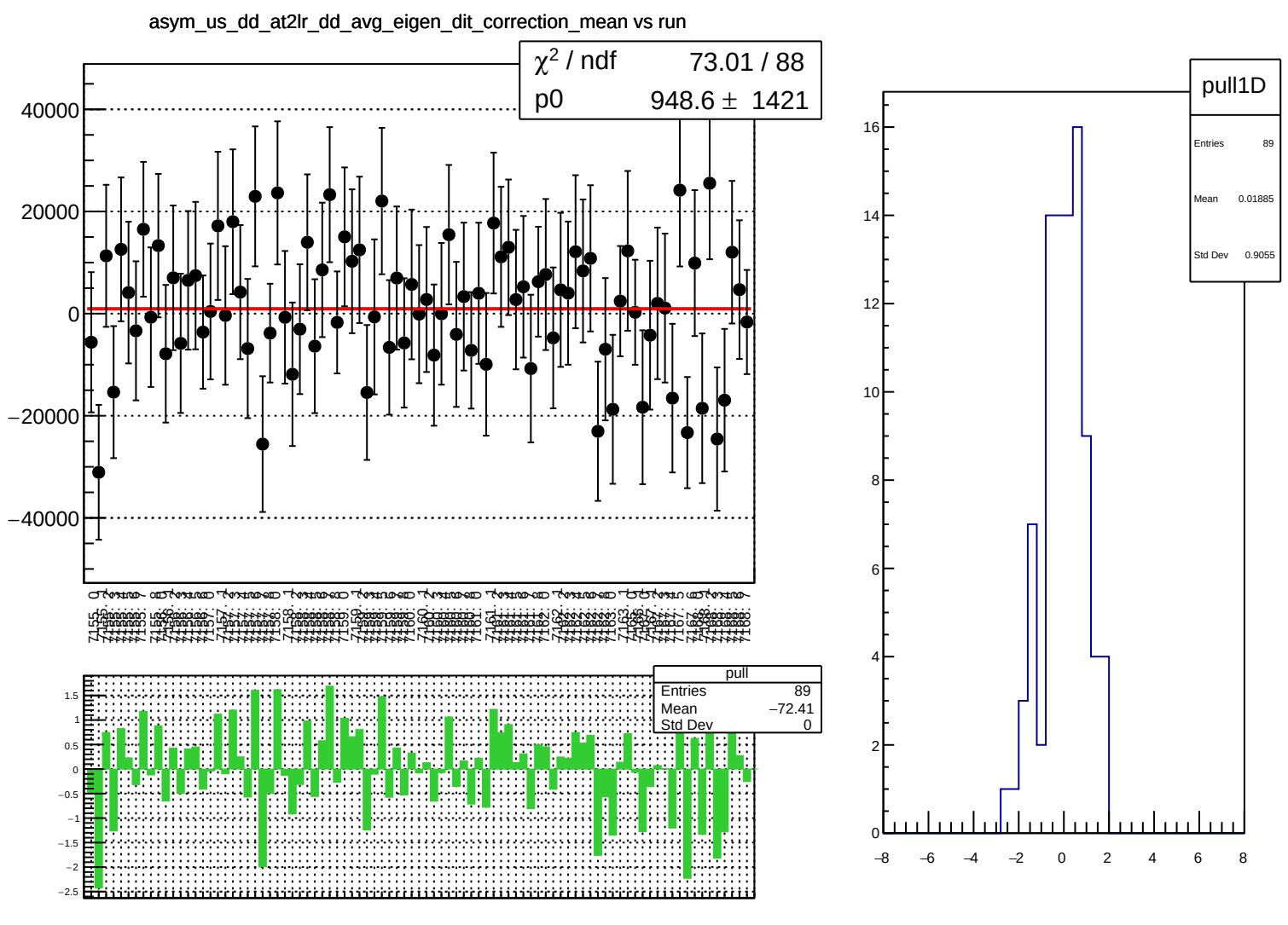

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
χ² / ndf 73.01 / 88
p0 948.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −72.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.01885
Std Dev 0.9055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

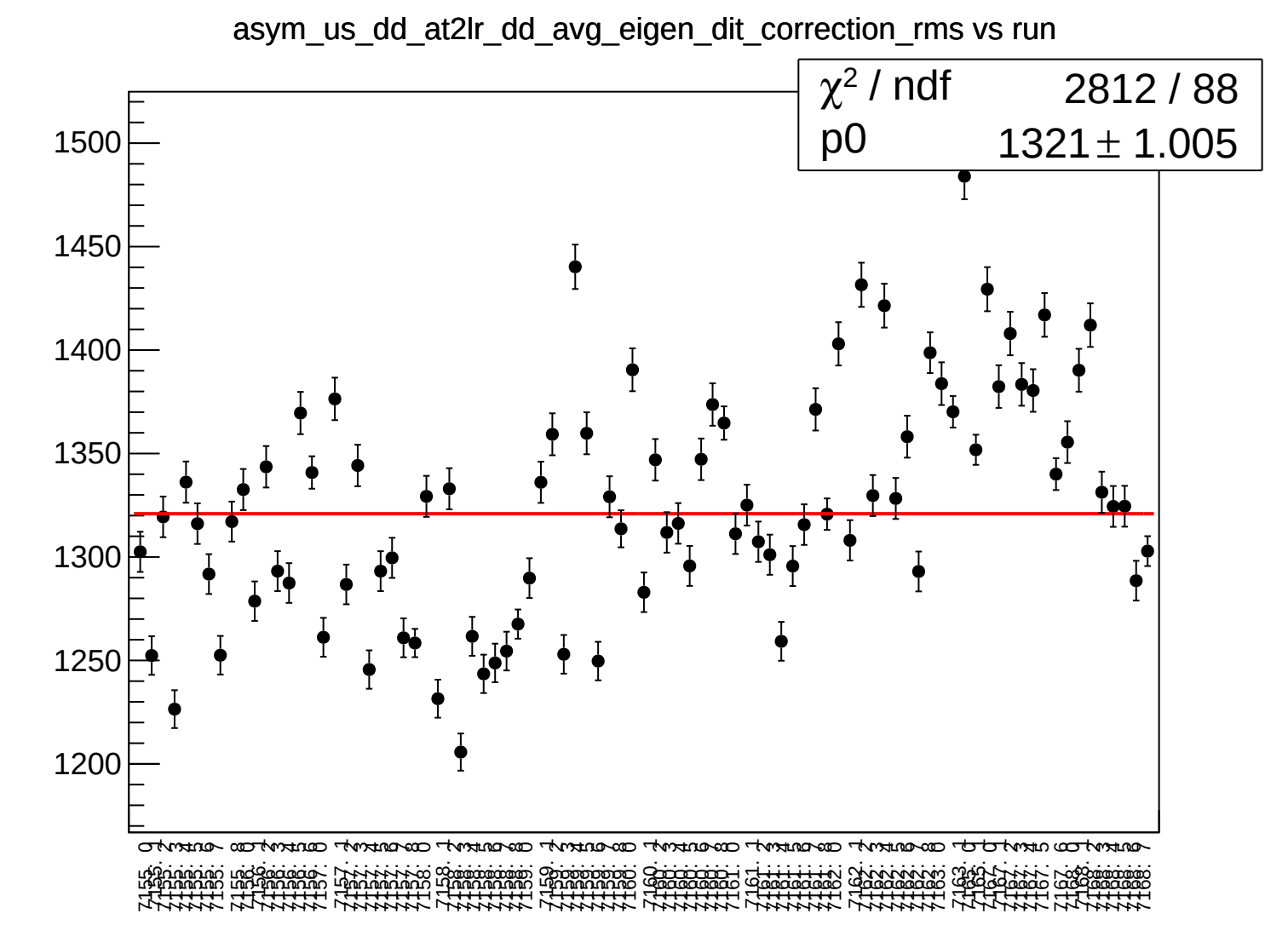

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2812 / 88
p0 1321 ± 1.005
1500
1450
1400
1350
1300
1250
1200

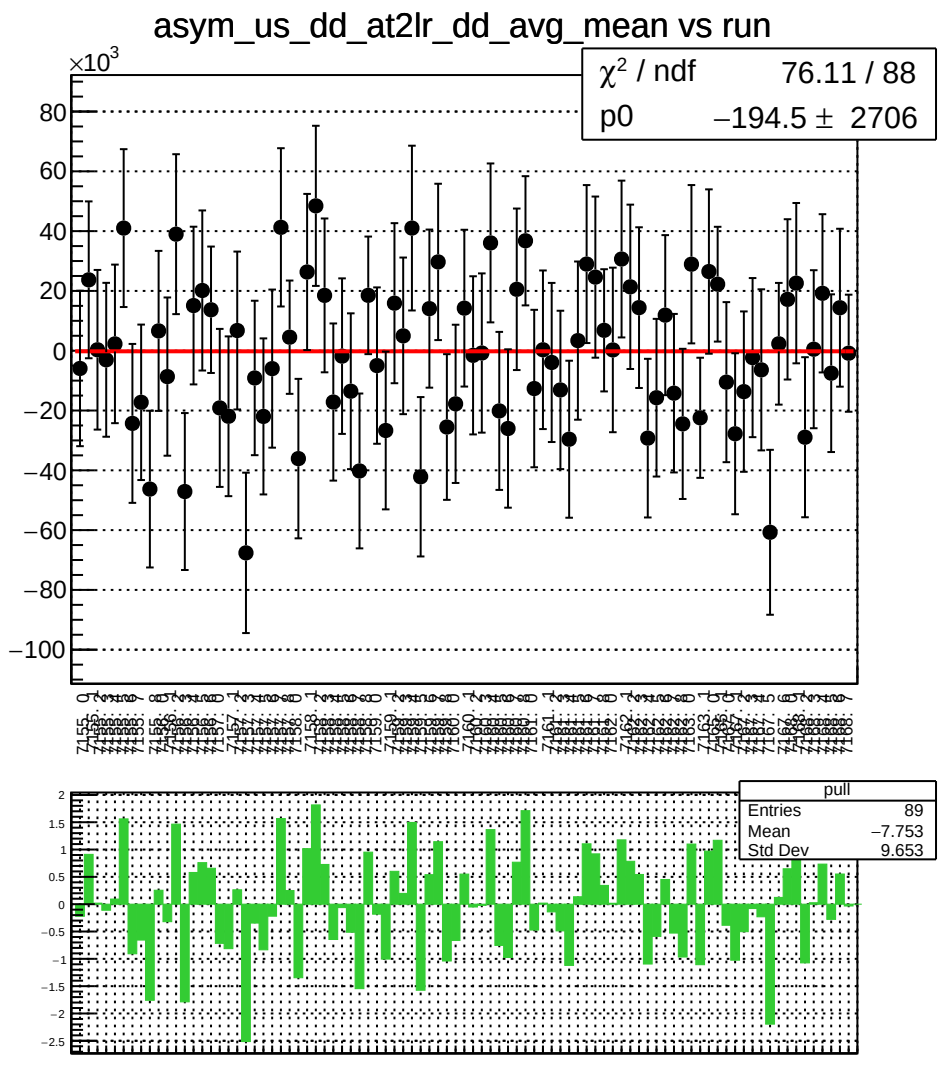

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 94.23 / 88
p0 898.7 ± 2302
pull
Entries 89
Mean 247.1
Std Dev 0

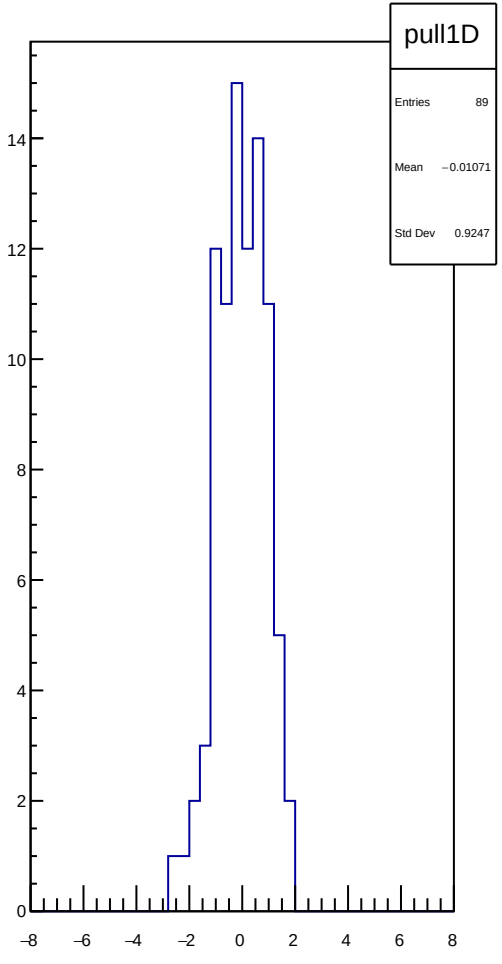

pull1D
Entries 89
Mean −0.00415
Std Dev 1.029

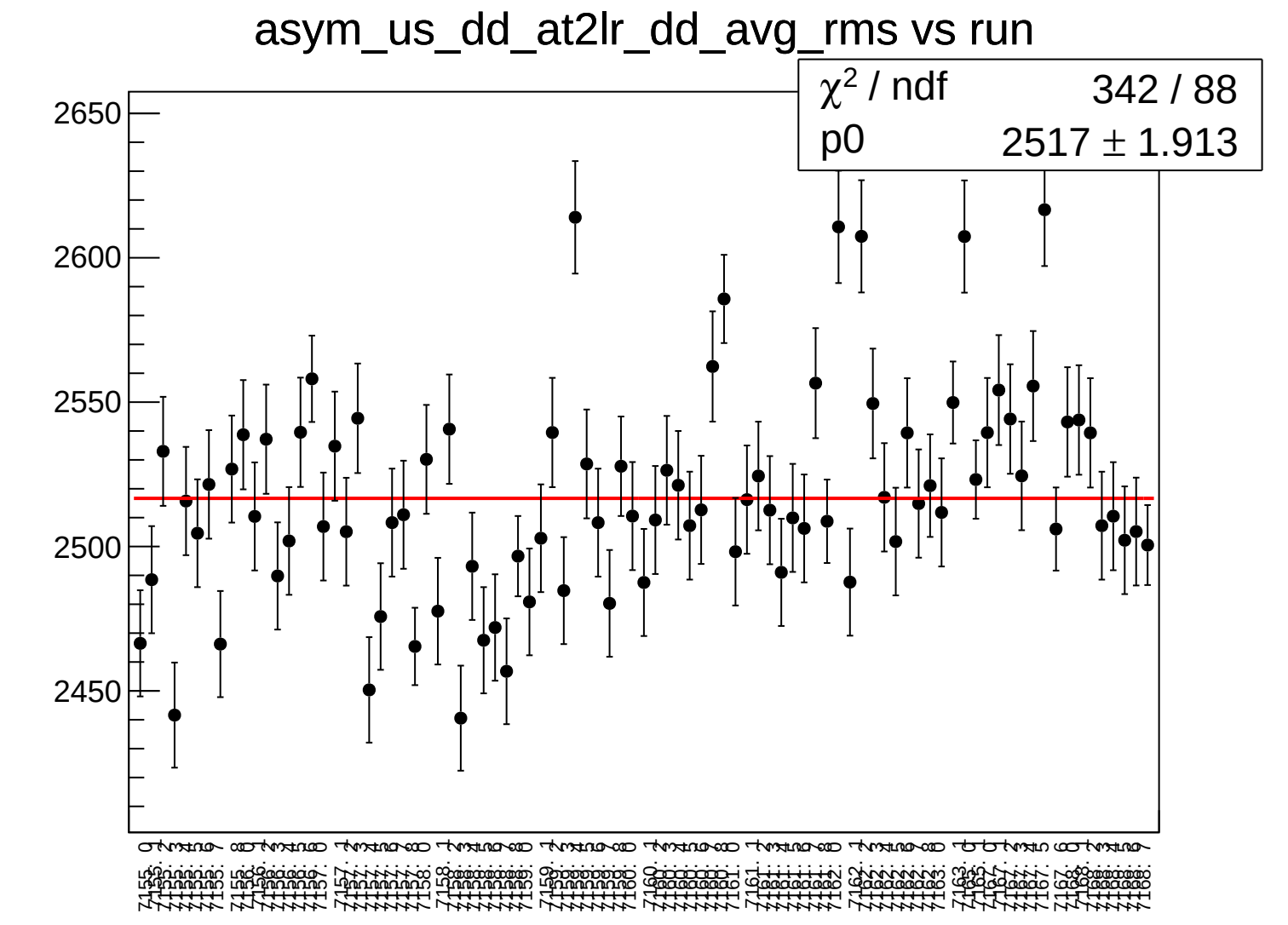

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 92.1 / 88
p0 2141 ± 1.628
2200
2180
2160
2140
2120
2100

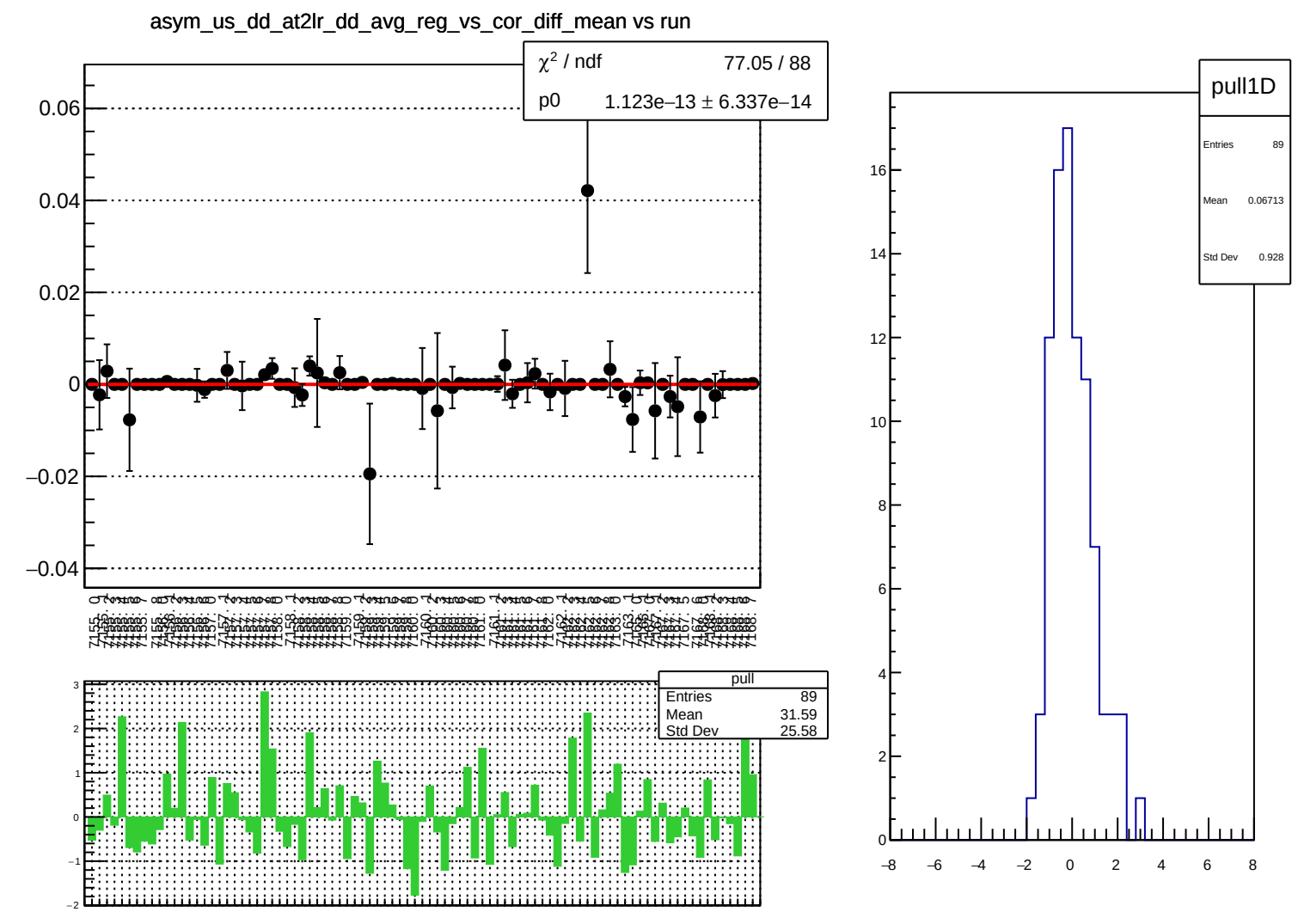

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.01 / 88
p0 948.6 ± 1421
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −72.41
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.01885
Std Dev 0.9055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

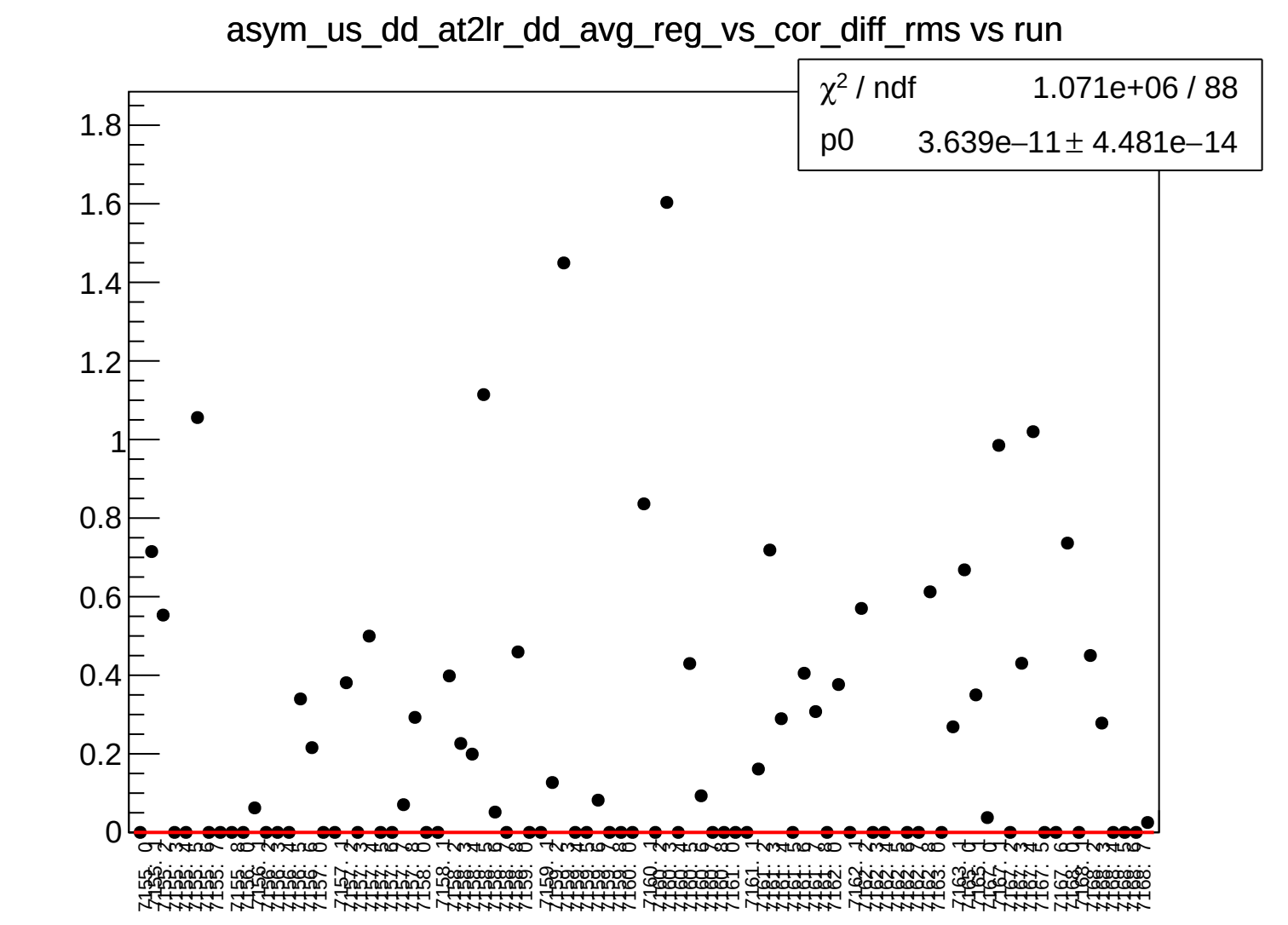

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2812 / 88
p0 1321 ± 1.005
1500
1450
1400
1350
1300
1250
1200

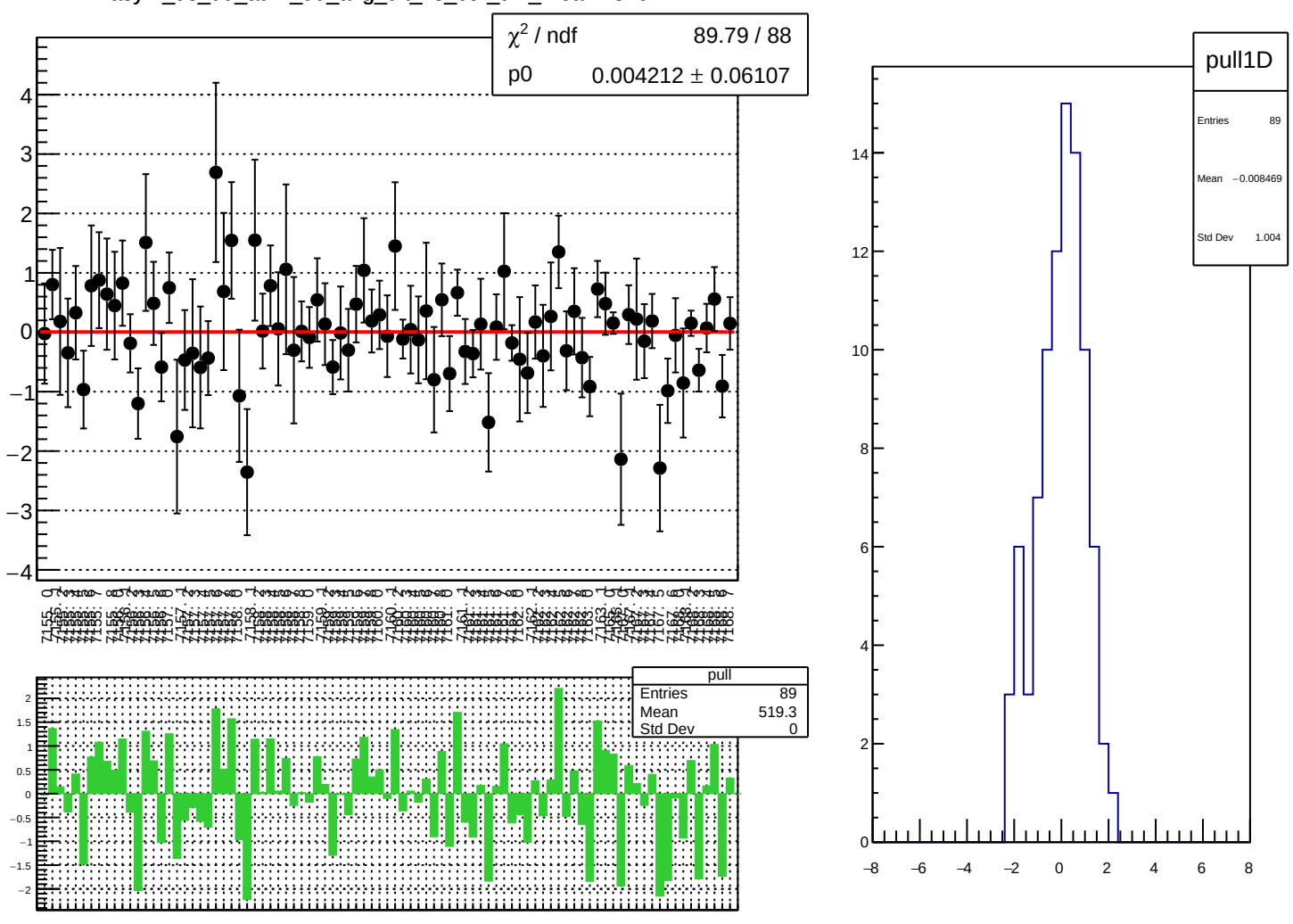

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 76.11 / 88
p0 −194.5 ± 2706
pull
Entries 89
Mean −7.753
Std Dev 9.653

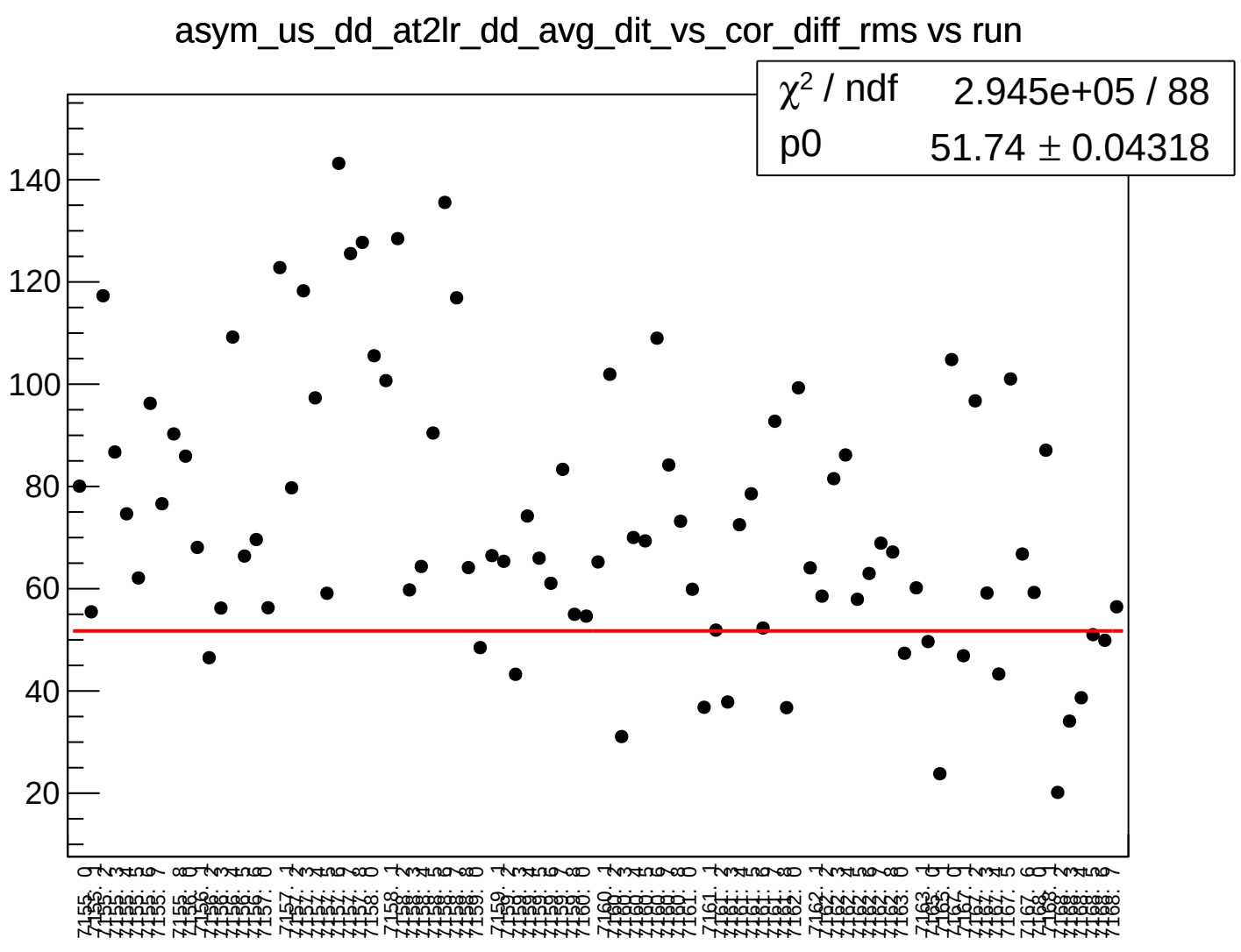

pull1D
Entries 89
Mean −0.01071
Std Dev 0.9247

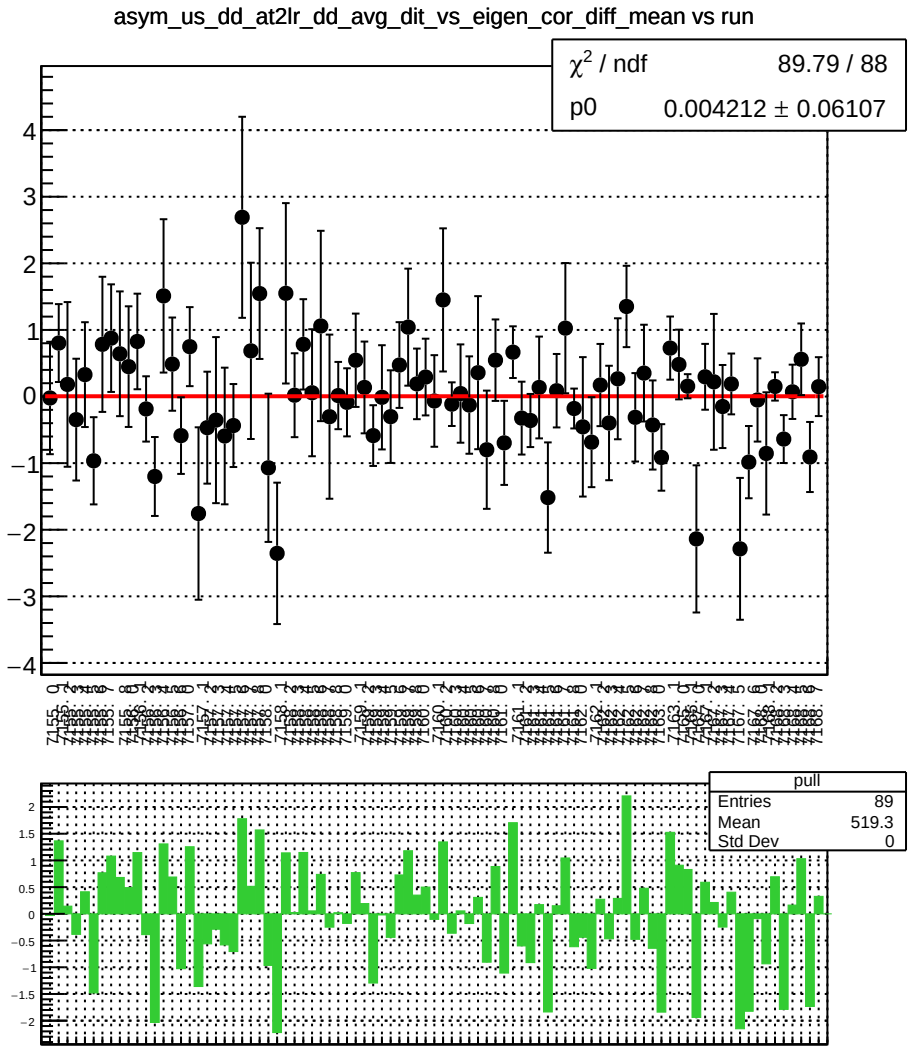

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 342 / 88
p0 2517 ± 1.913
2650
2600
2550
2500
2450

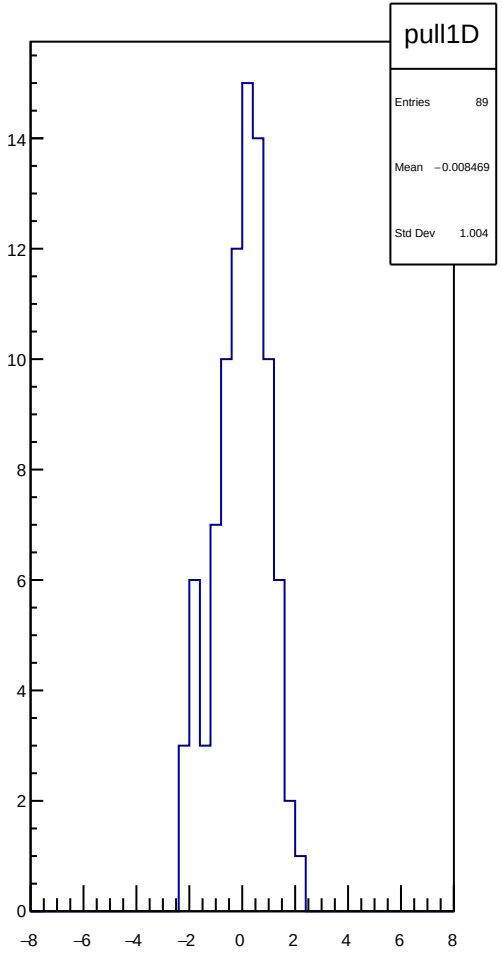

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.05 / 88
p0 1.123e−13 ± 6.337e−14
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean 31.59
Std Dev 25.58
3
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.06713
Std Dev 0.928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

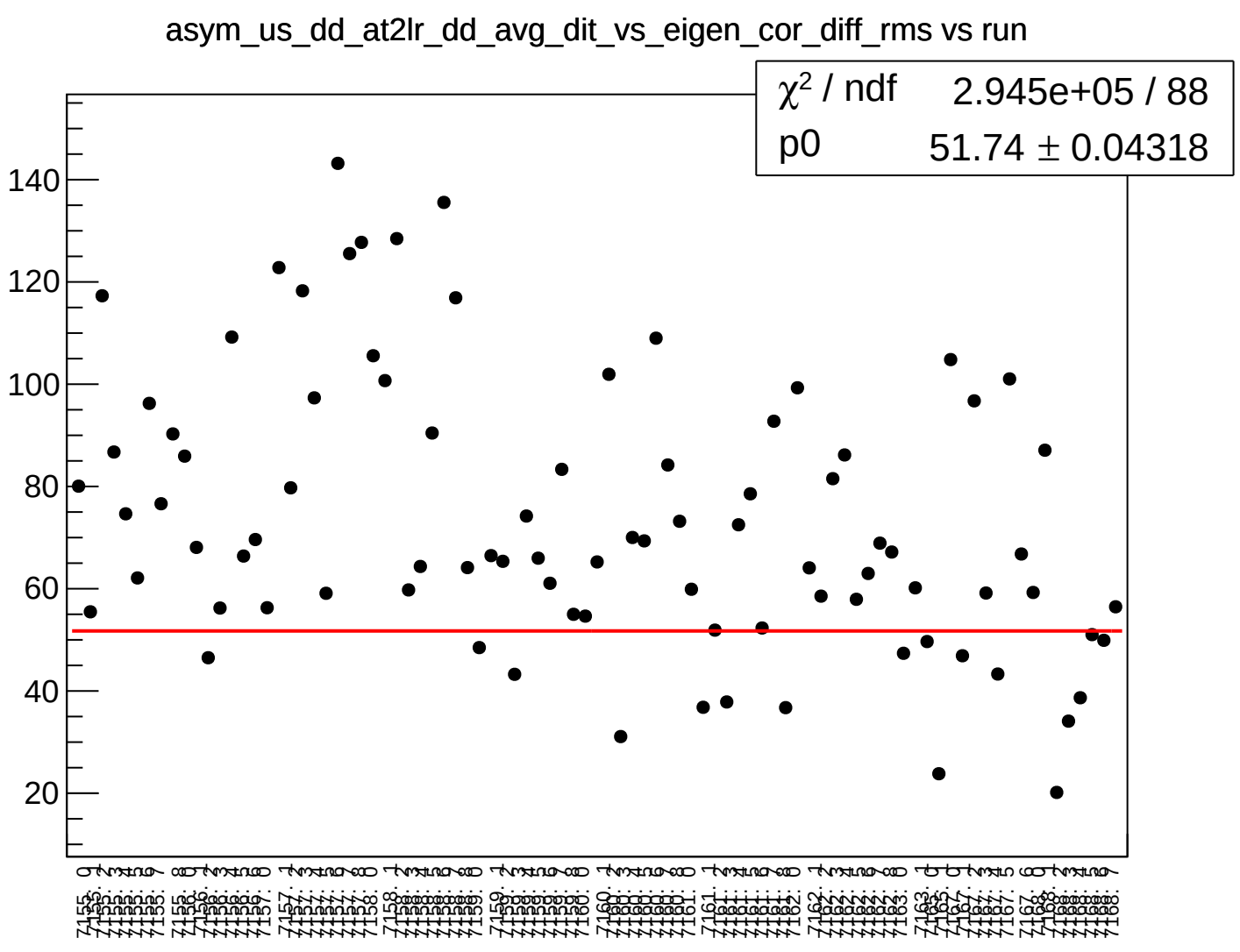

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 88
p0 3.639e−11 ± 4.481e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

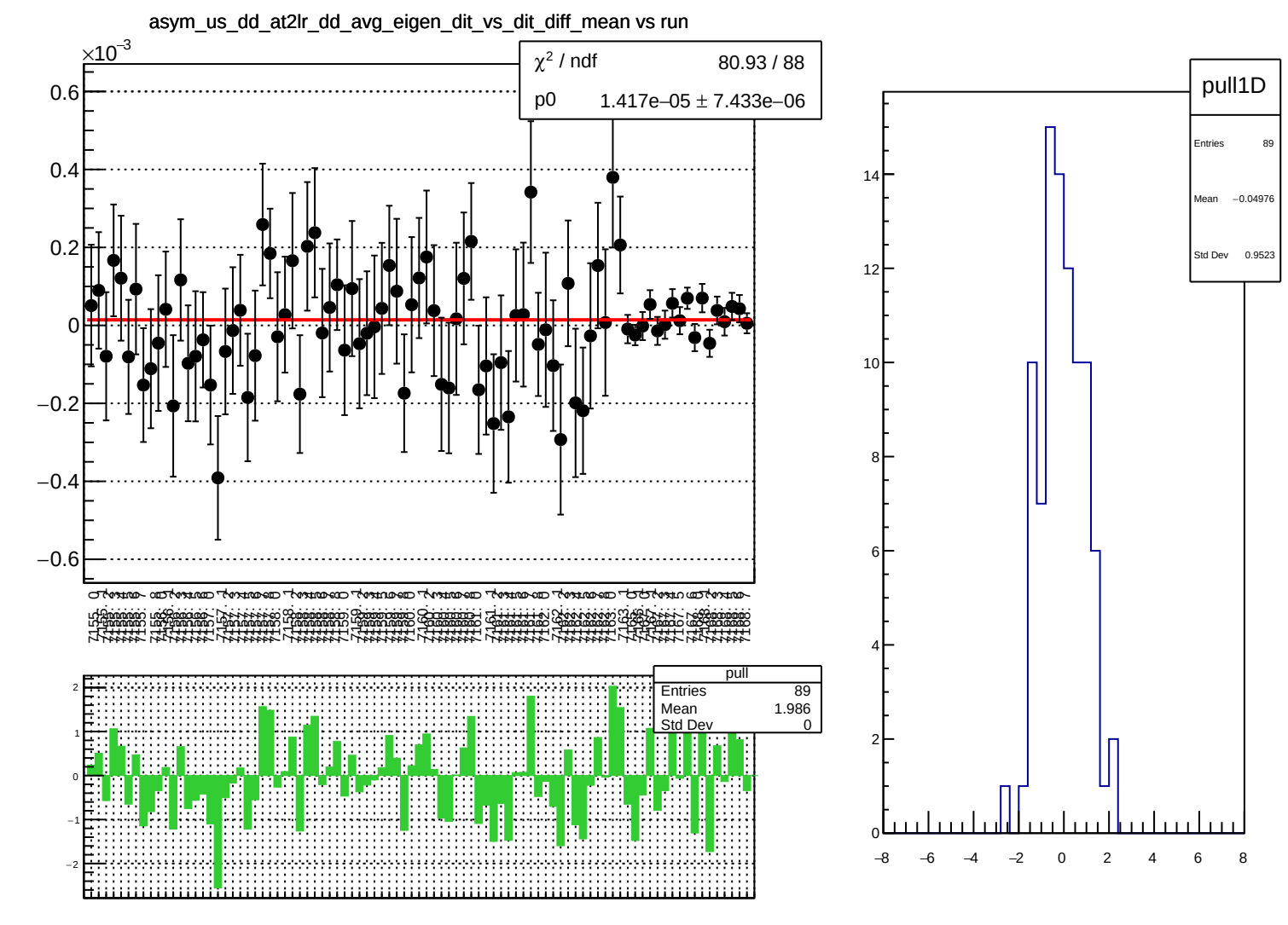

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.79 / 88
p0 0.004212 ± 0.06107
pull
Entries 89
Mean 519.3
Std Dev 0
pull1D
Entries 89
Mean −0.008469
Std Dev 1.004

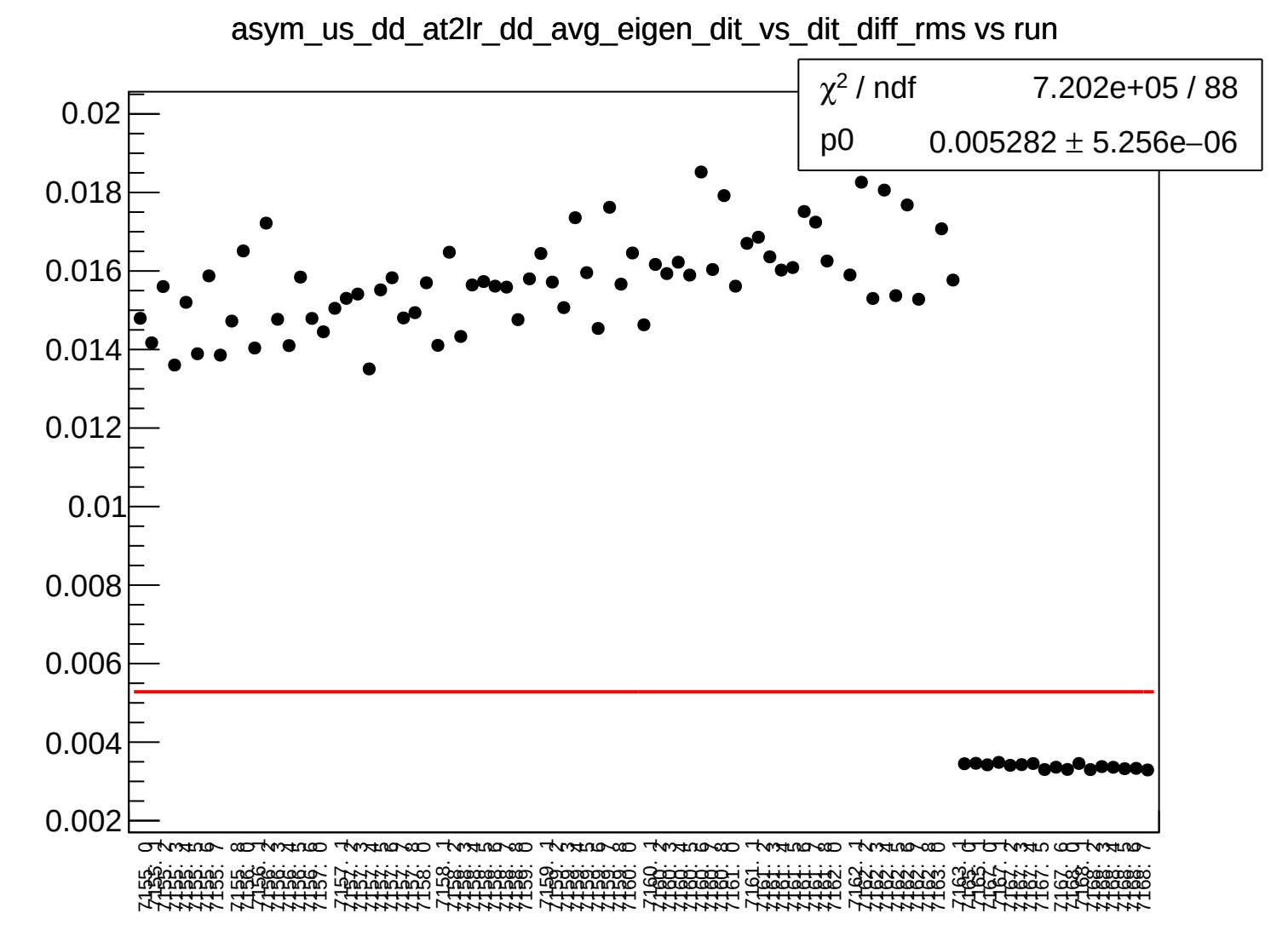

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 88
p0 51.74 ± 0.04318
140
120
100
80
60
40
20

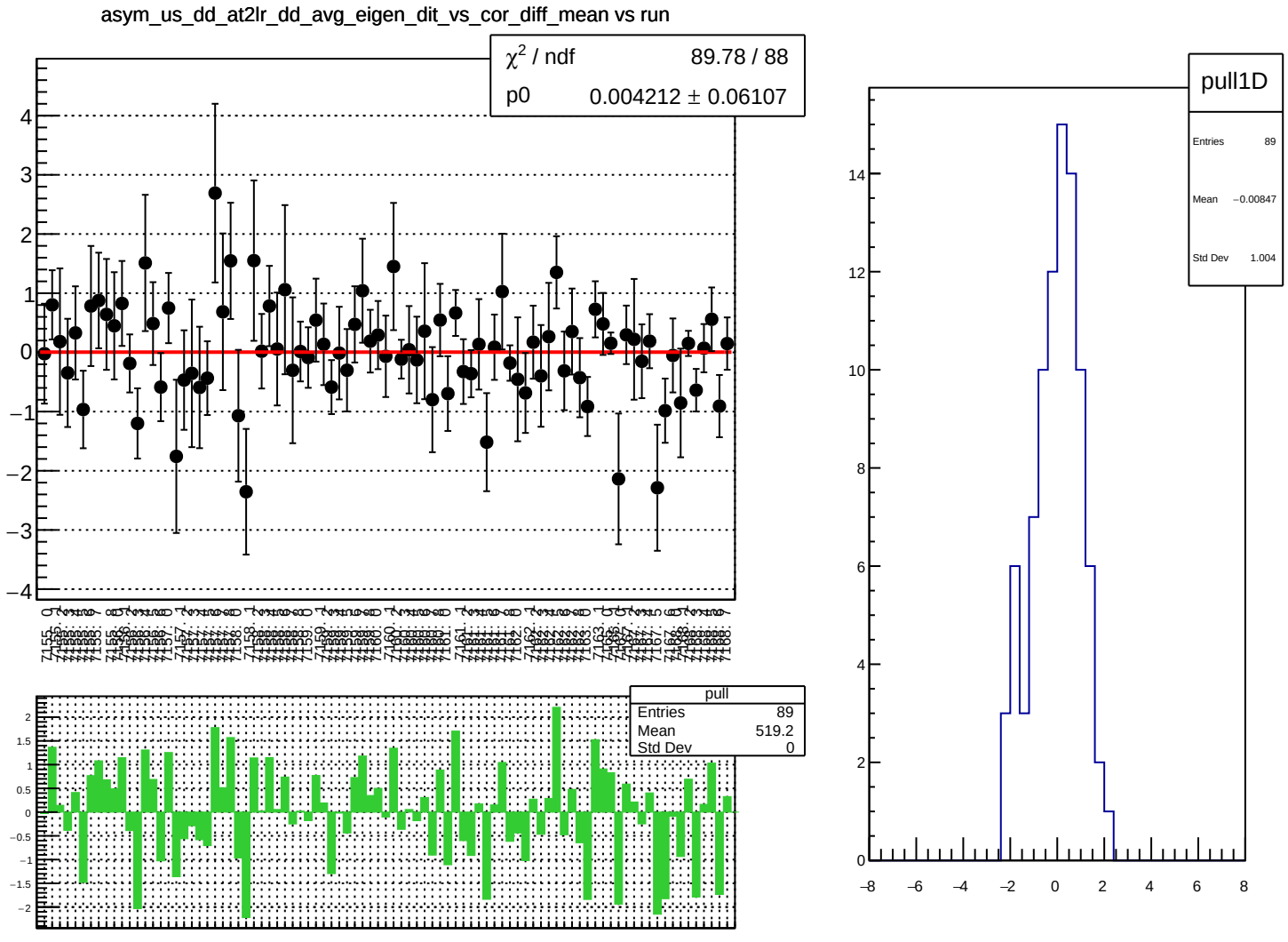

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.79 / 88
p0 0.004212 ± 0.06107
pull
Entries 89
Mean 519.3
Std Dev 0

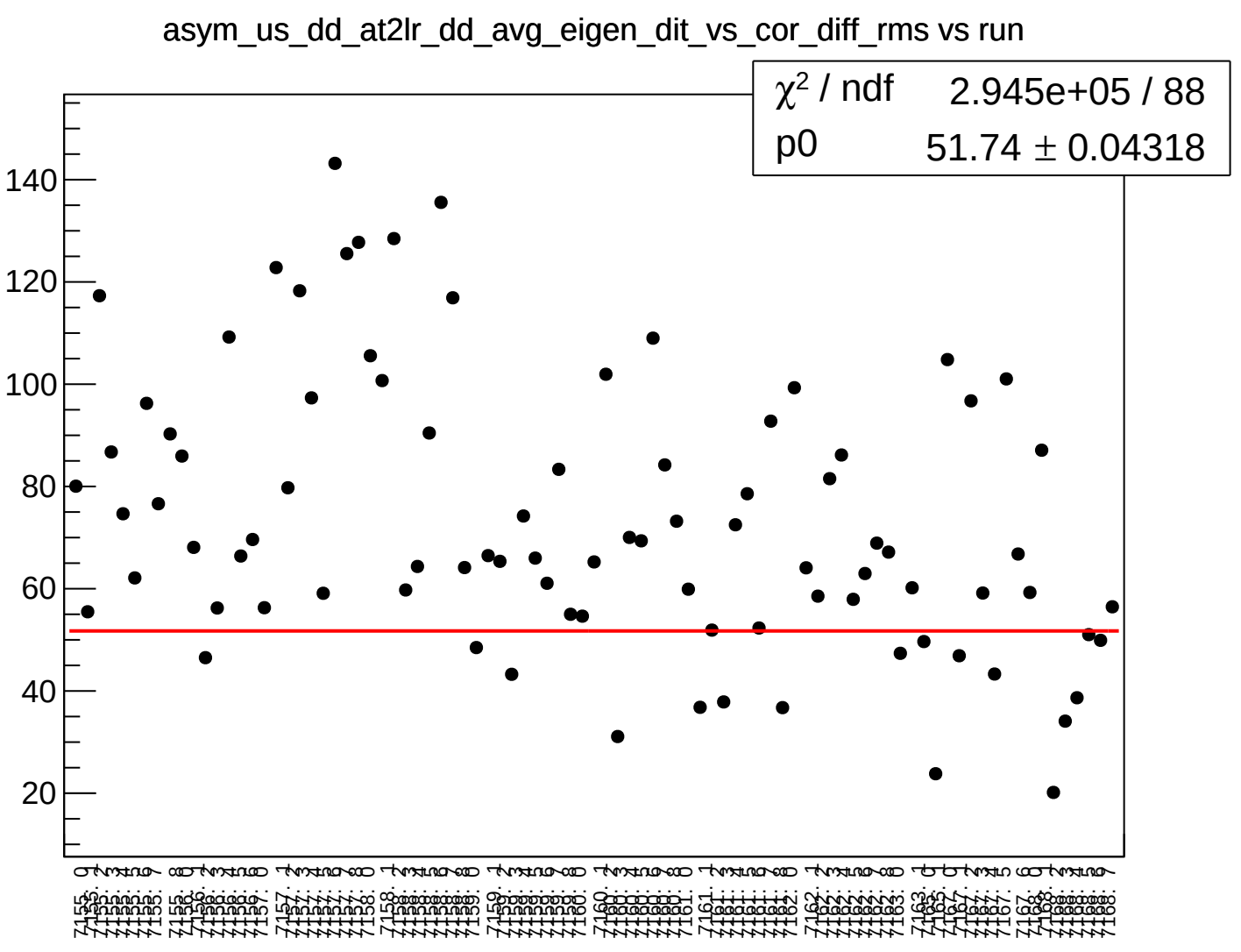

pull1D
Entries 89
Mean −0.008469
Std Dev 1.004

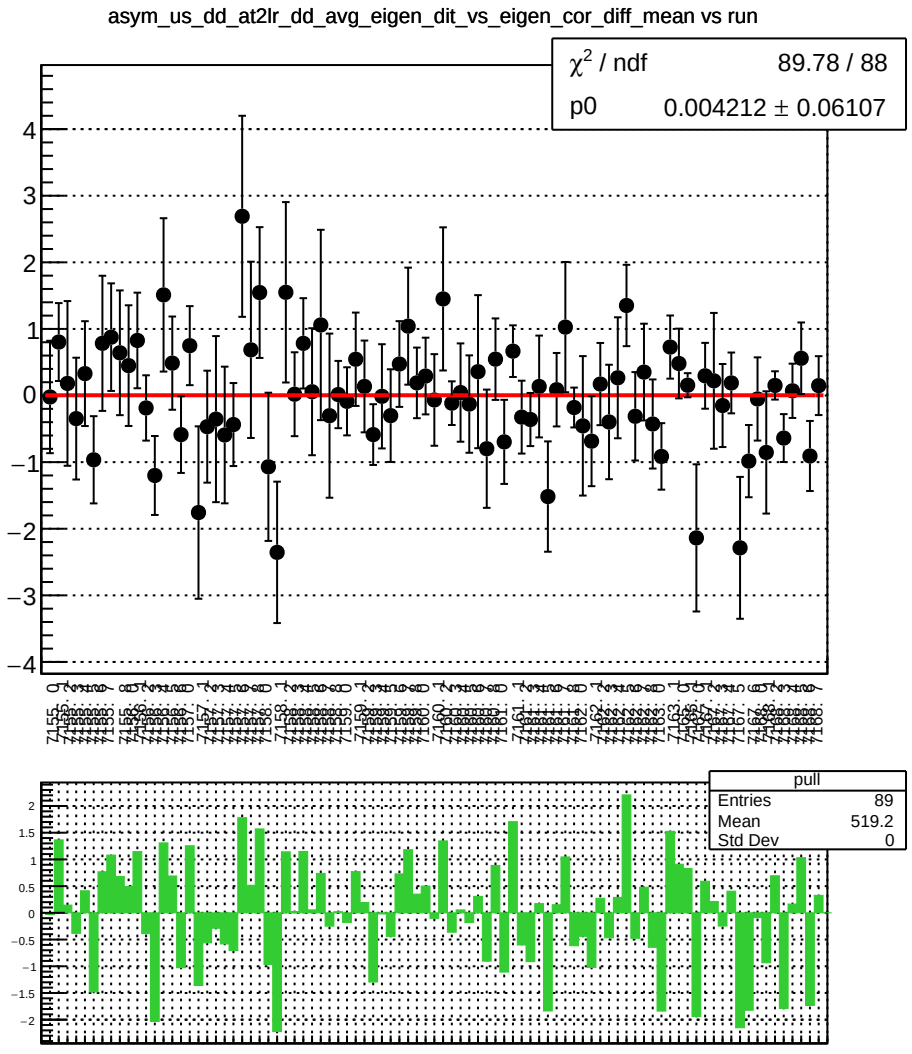

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 88
p0 51.74 ± 0.04318
140
120
100
80
60
40
20

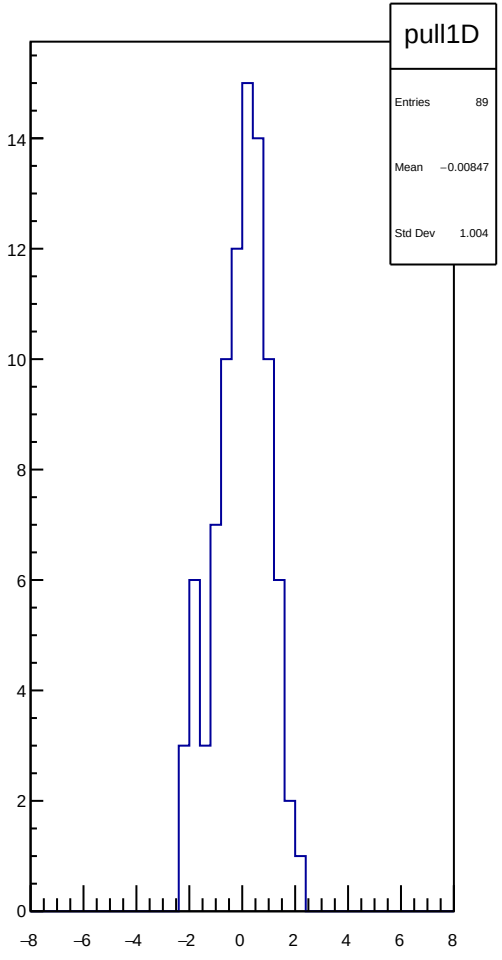

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.93 / 88
p0 1.417e−05 ± 7.433e−06
pull
Entries 89
Mean 1.986
Std Dev 0
pull1D
Entries 89
Mean −0.04976
Std Dev 0.9523

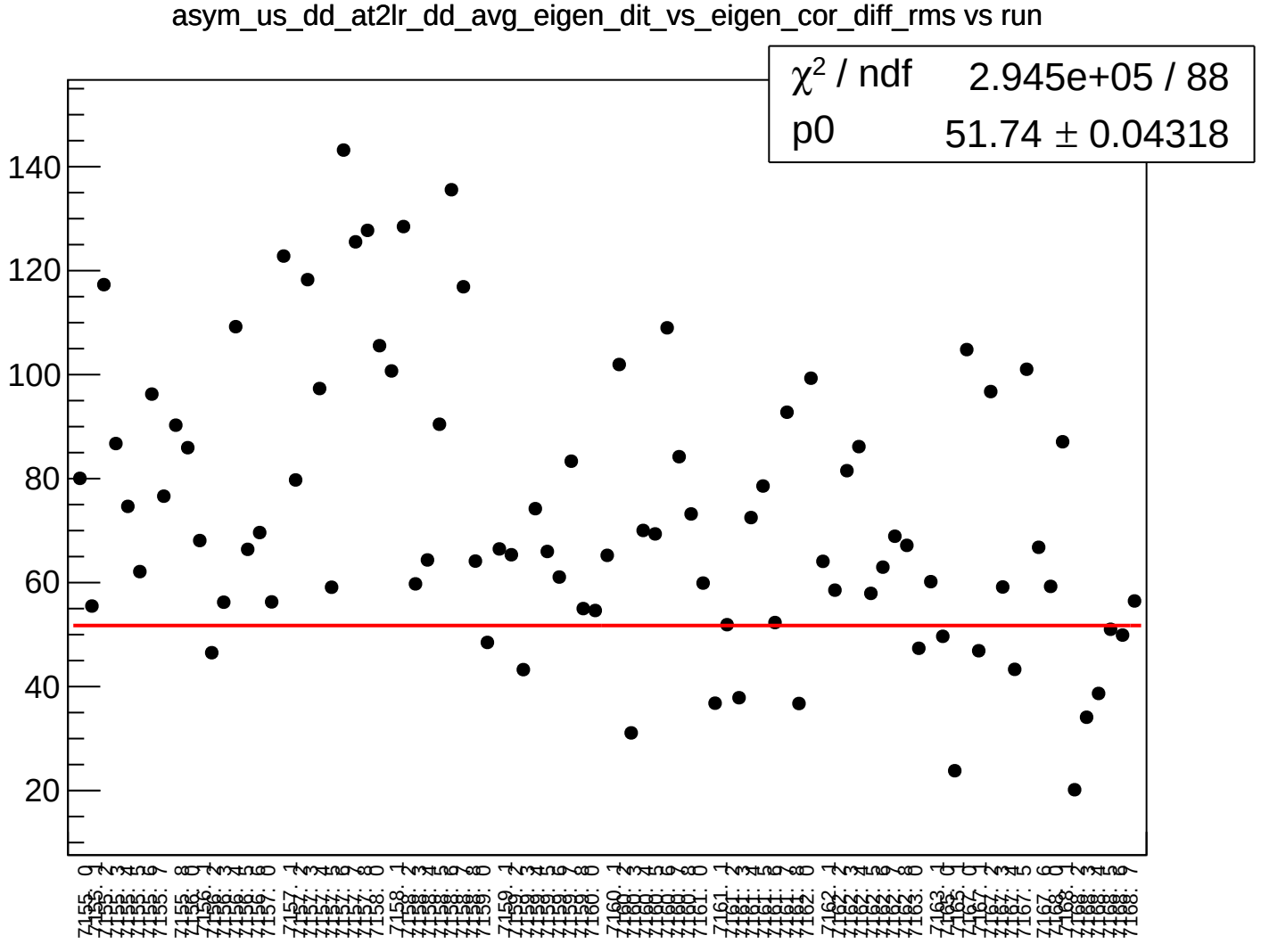

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.202e+05 / 88
p0 0.005282 ± 5.256e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

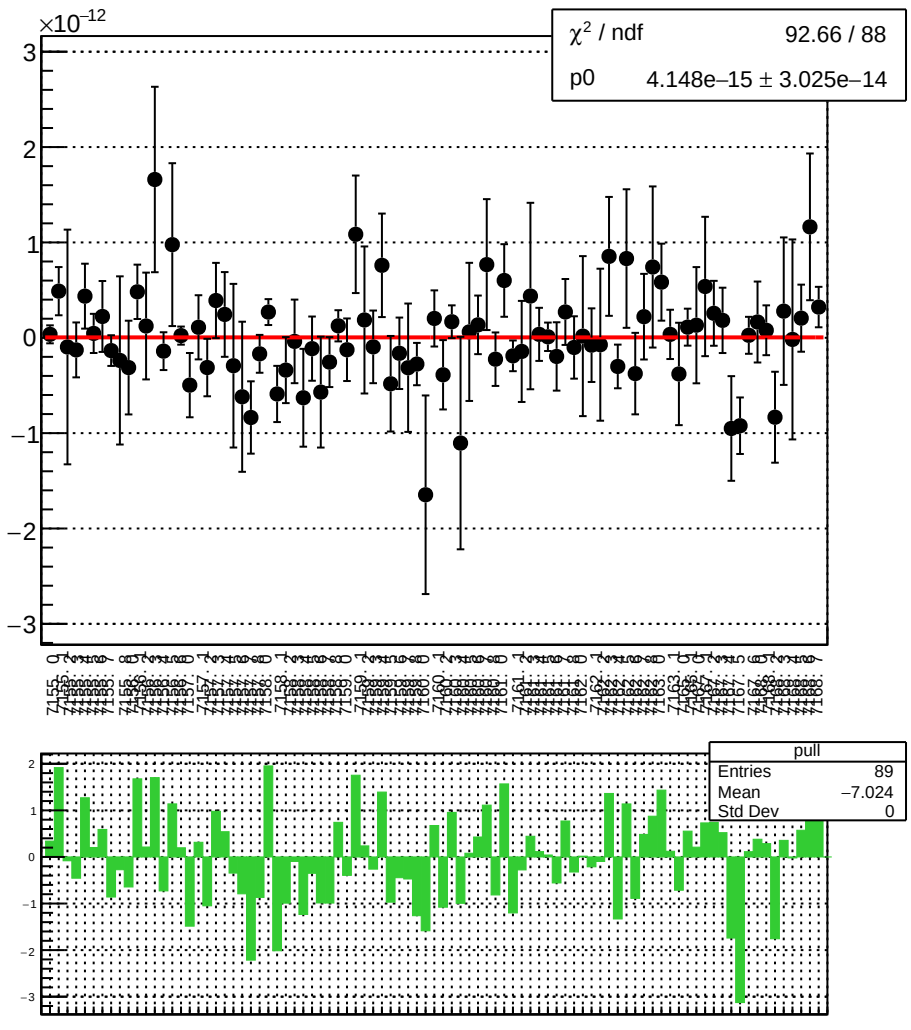

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.78 / 88
p0 0.004212 ± 0.06107
pull
Entries 89
Mean 519.2
Std Dev 0
pull1D
Entries 89
Mean −0.00847
Std Dev 1.004

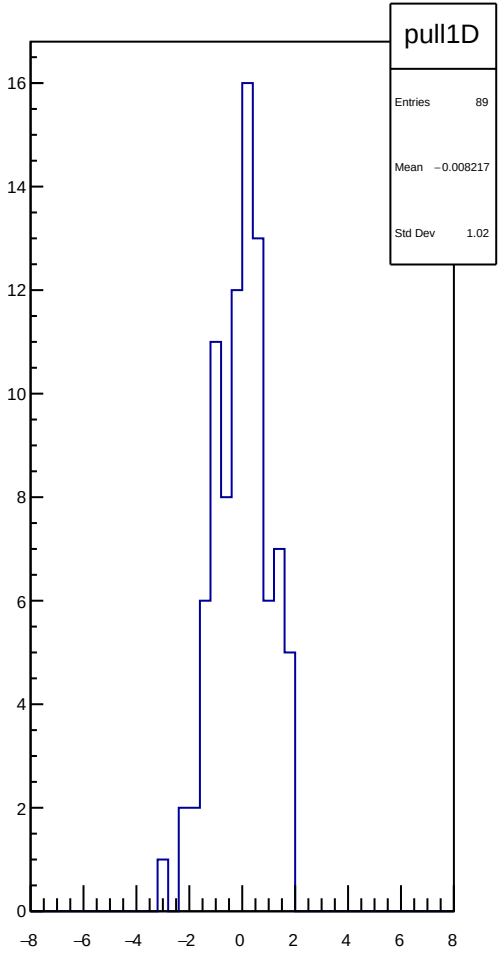

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 88
p0 51.74 ± 0.04318
140
120
100
80
60
40
20

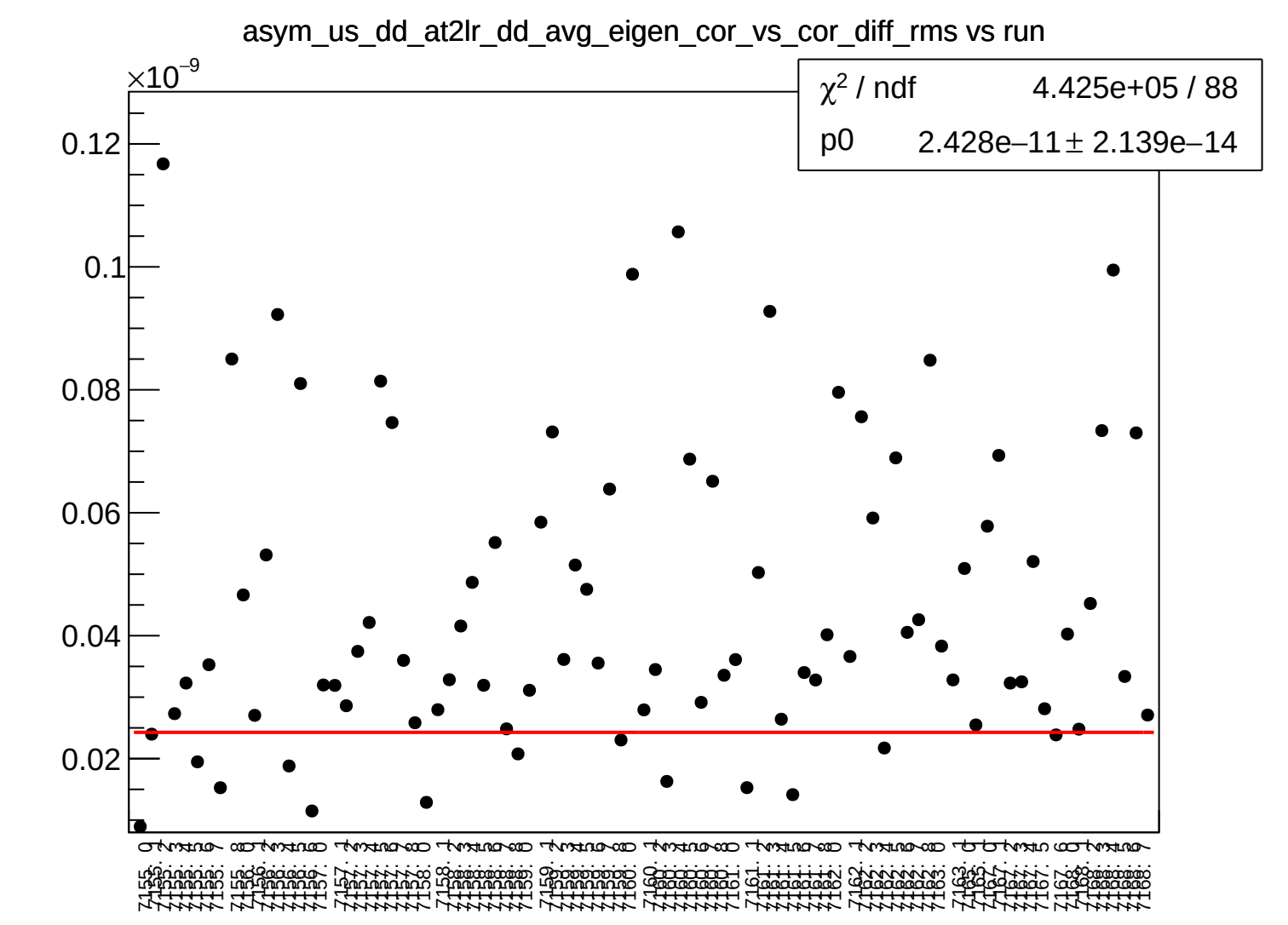

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.78 / 88
p0 0.004212 ± 0.06107
pull
Entries 89
Mean 519.2
Std Dev 0

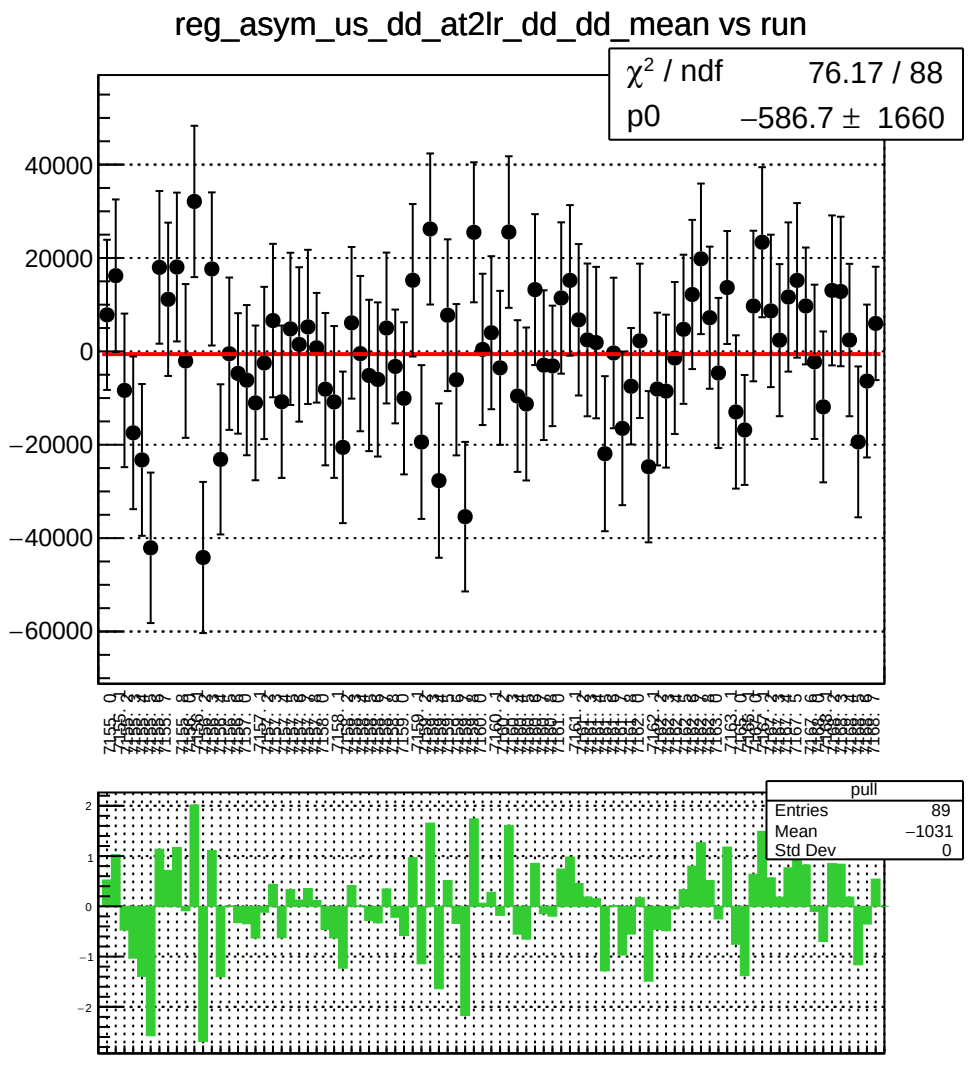

pull1D
Entries 89
Mean −0.00847
Std Dev 1.004

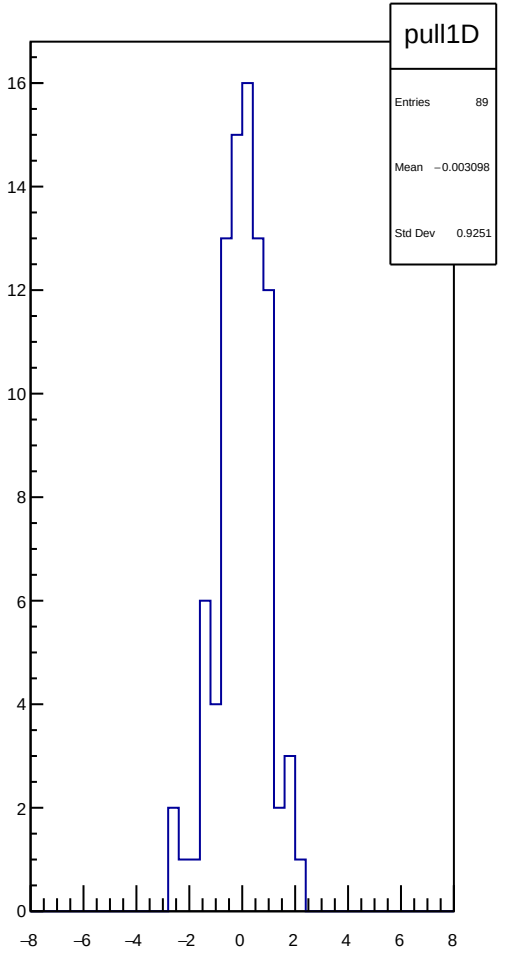

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.945e+05 / 88
p0 51.74 ± 0.04318
140
120
100
80
60
40
20

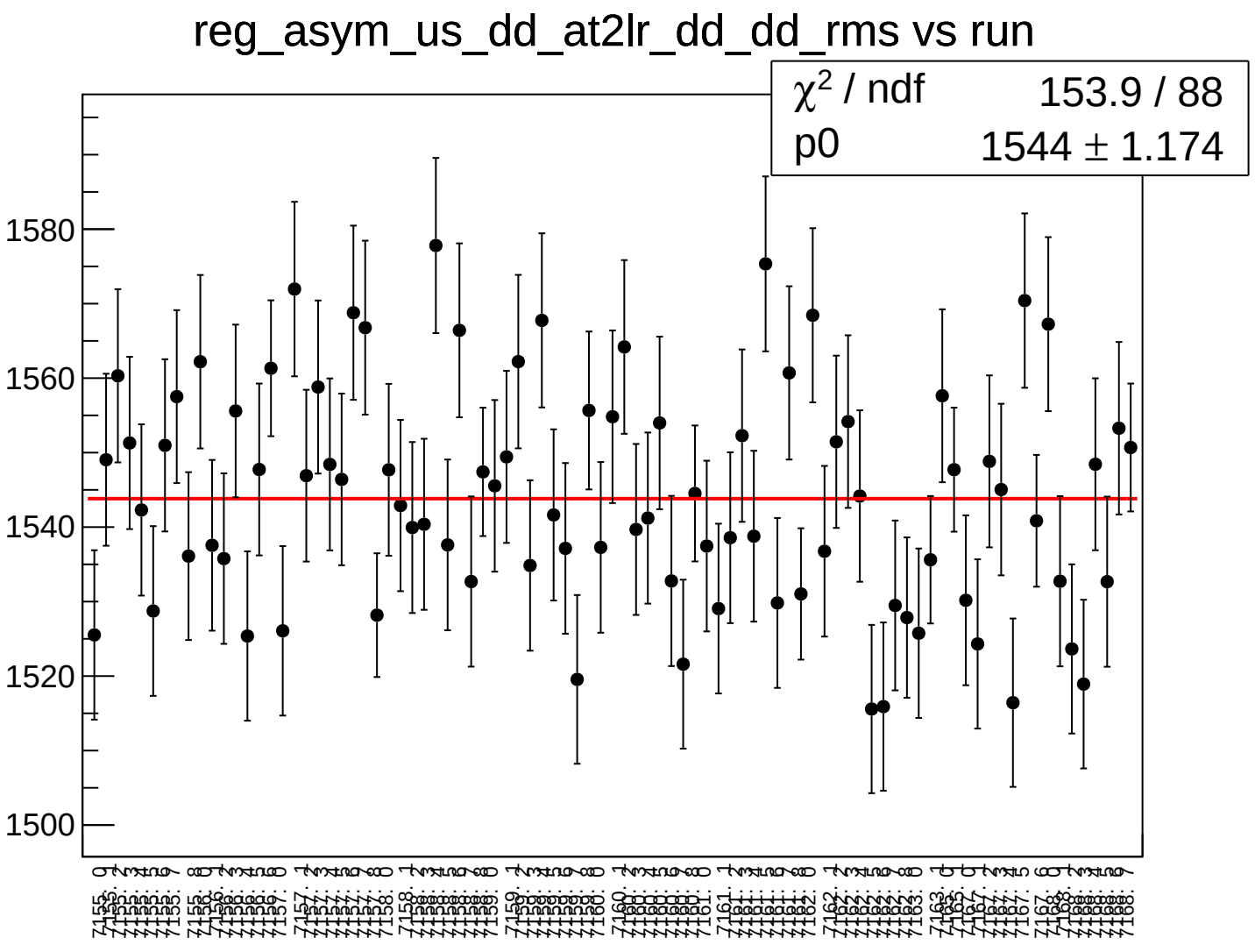

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.66 / 88
p0 4.148e−15 ± 3.025e−14
pull
Entries 89
Mean −7.024
Std Dev 0

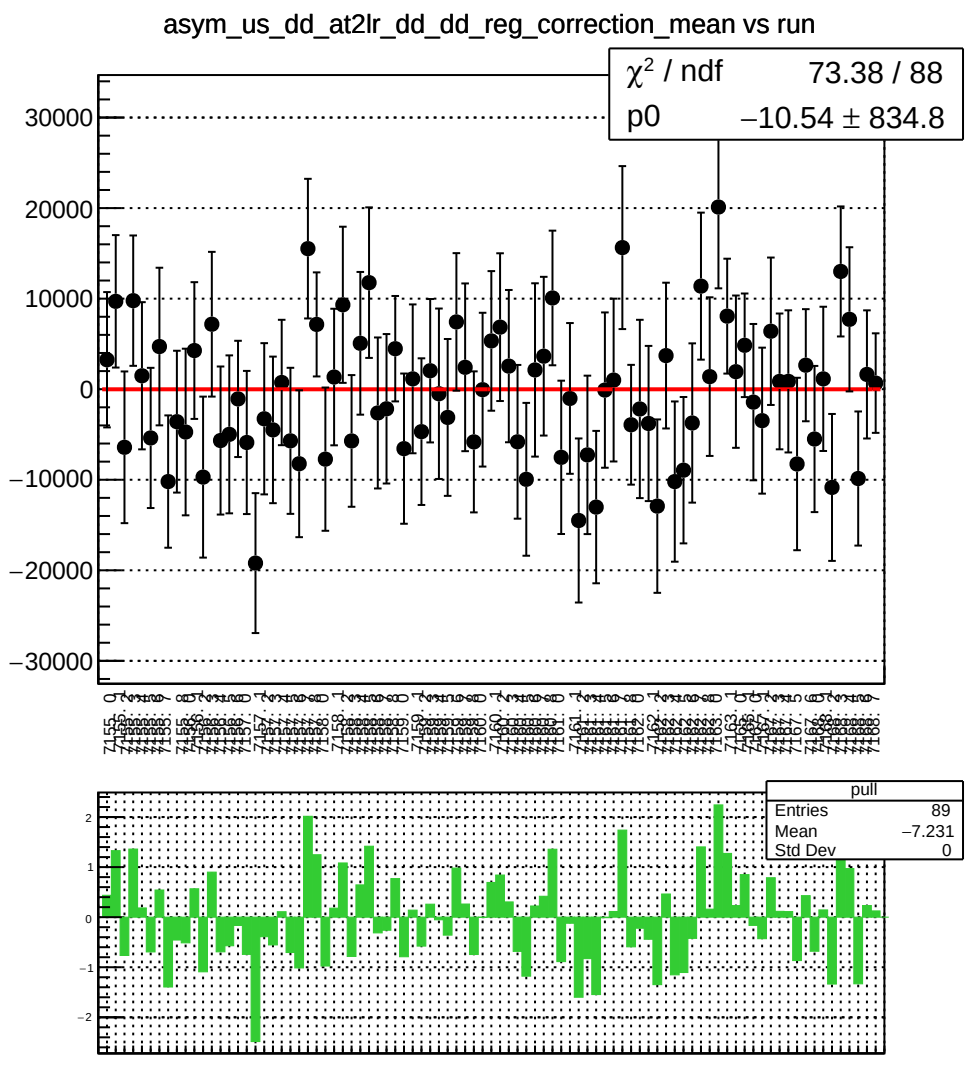

pull1D
Entries 89
Mean −0.008217
Std Dev 1.02

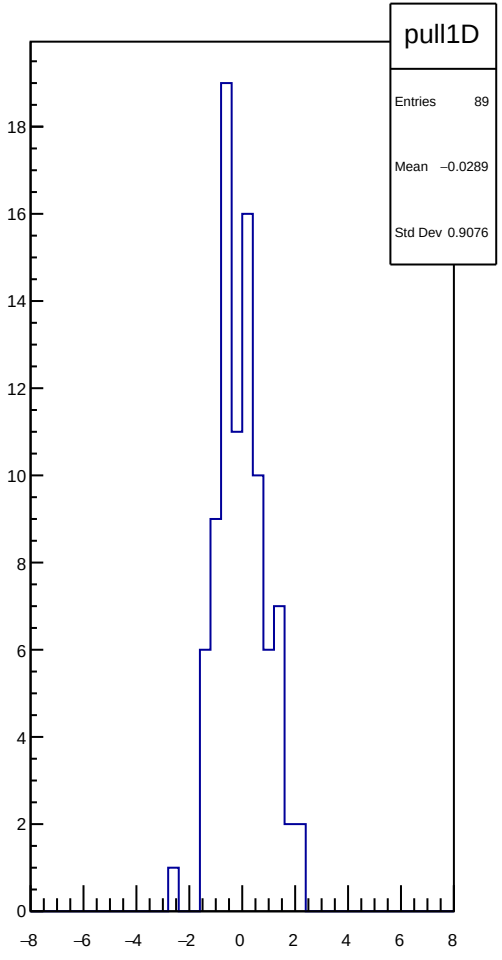

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.425e+05 / 88
p0 2.428e−11 ± 2.139e−14
0.12
0.1
0.08
0.06
0.04
0.02

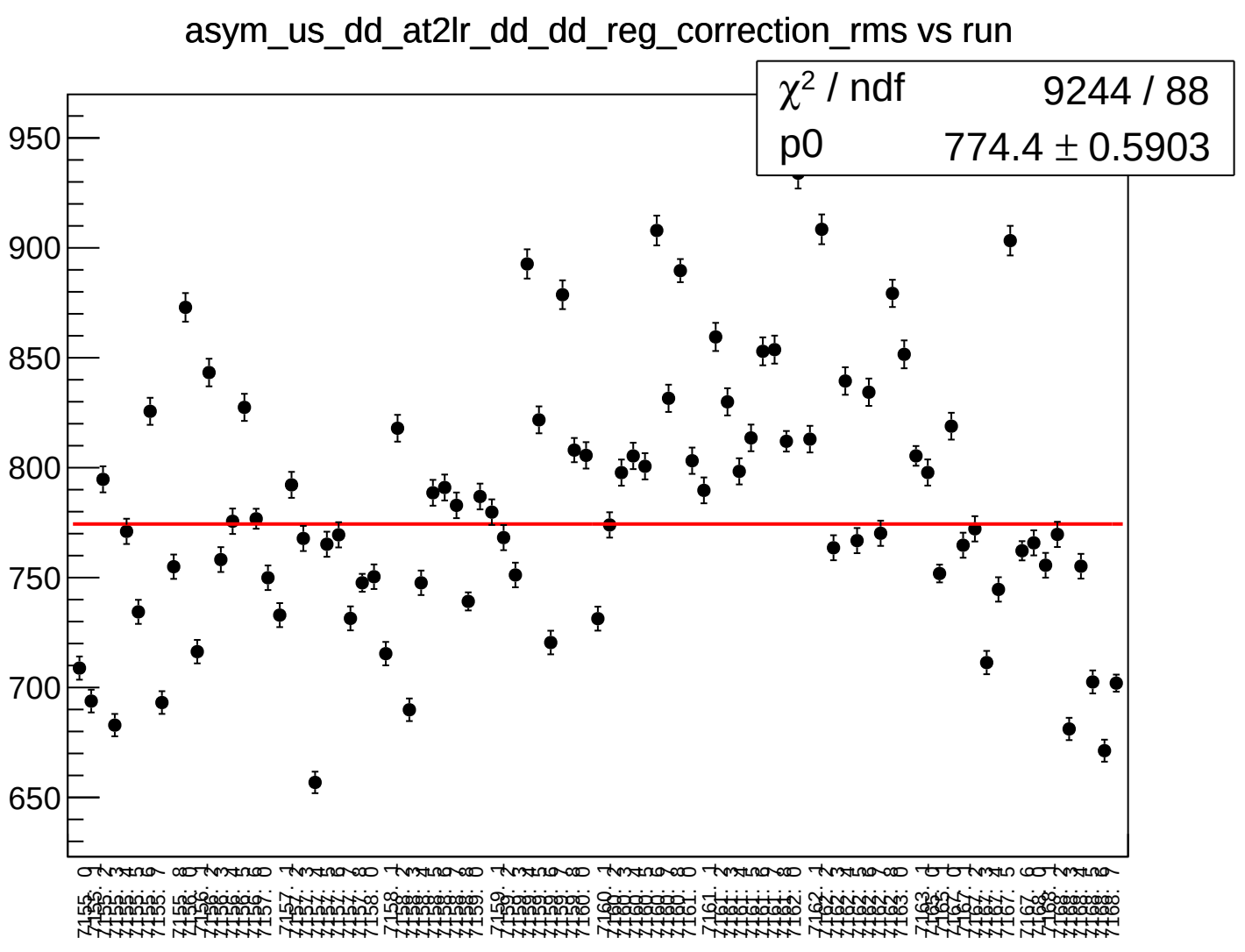

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 76.17 / 88
p0 −586.7 ± 1660
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1031
Std Dev 0
2
1
0
−1
−2

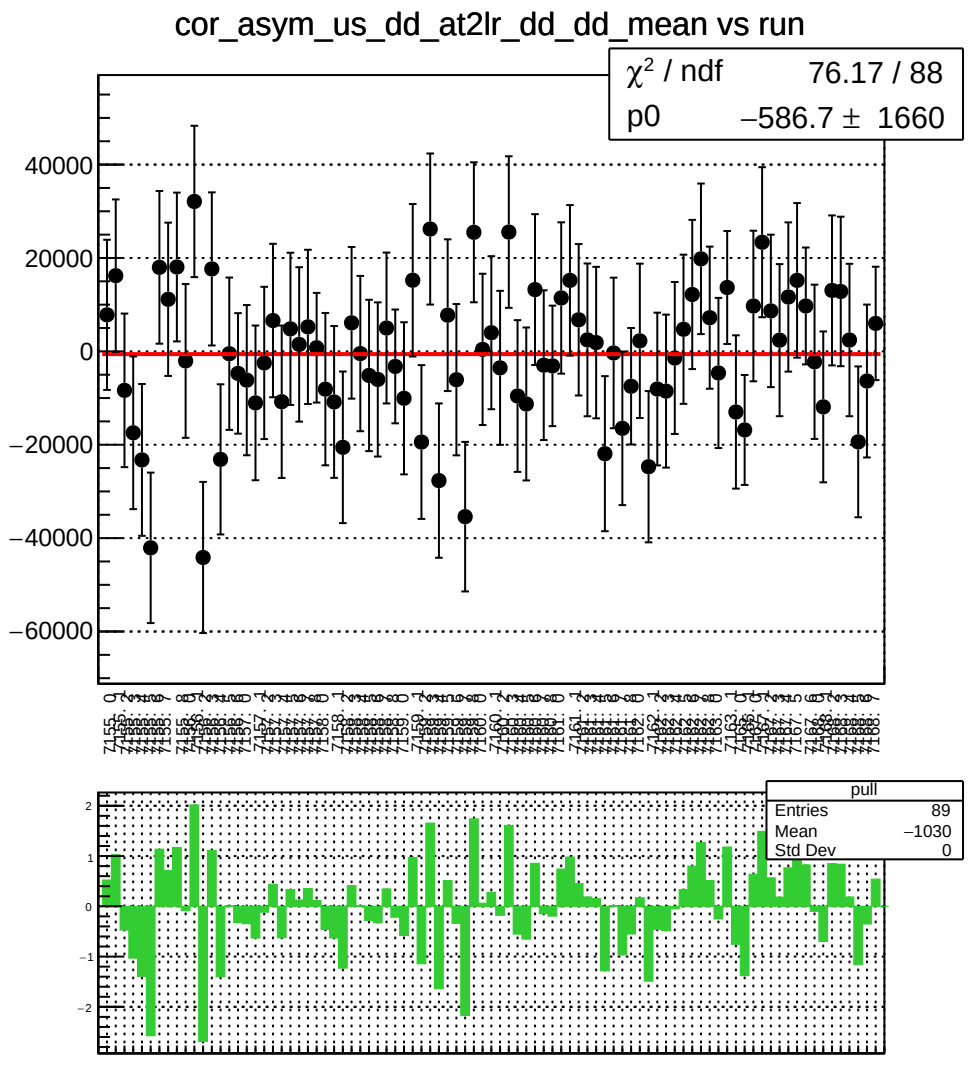

pull1D
Entries 89
Mean −0.003098
Std Dev 0.9251
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

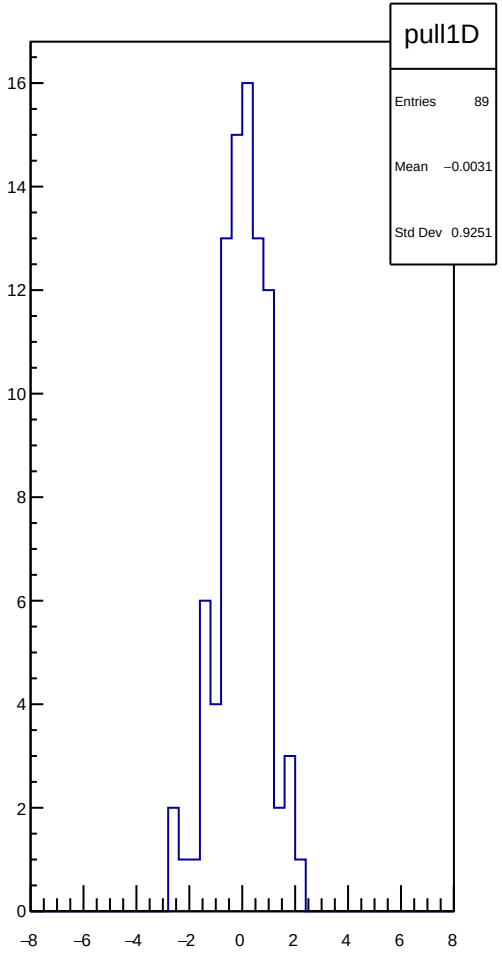

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 153.9 / 88
p0 1544 ± 1.174
1580
1560
1540
1520
1500

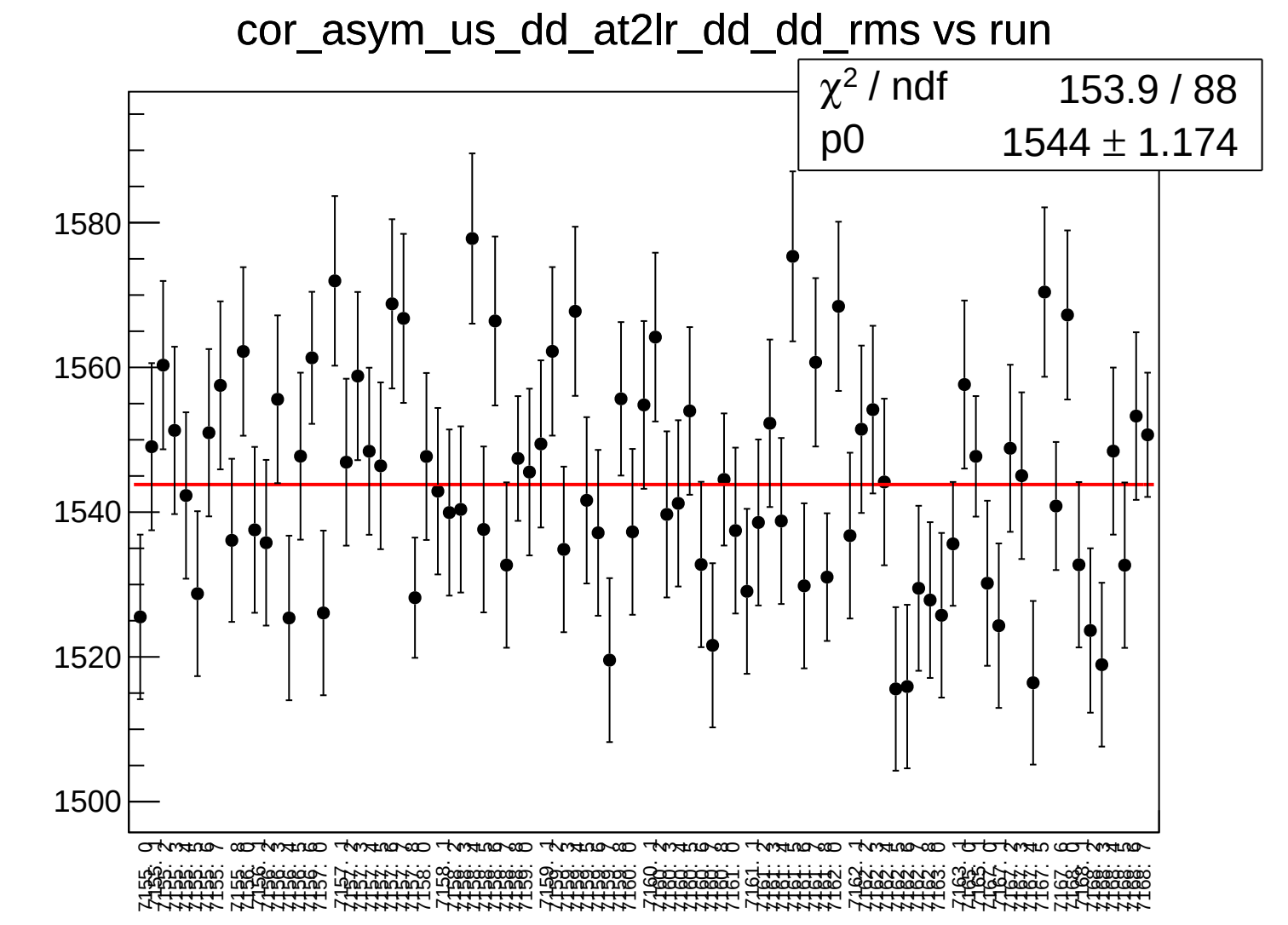

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 73.38 / 88
p0 −10.54 ± 834.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −7.231
Std Dev 0
2
1
0
−1
−2

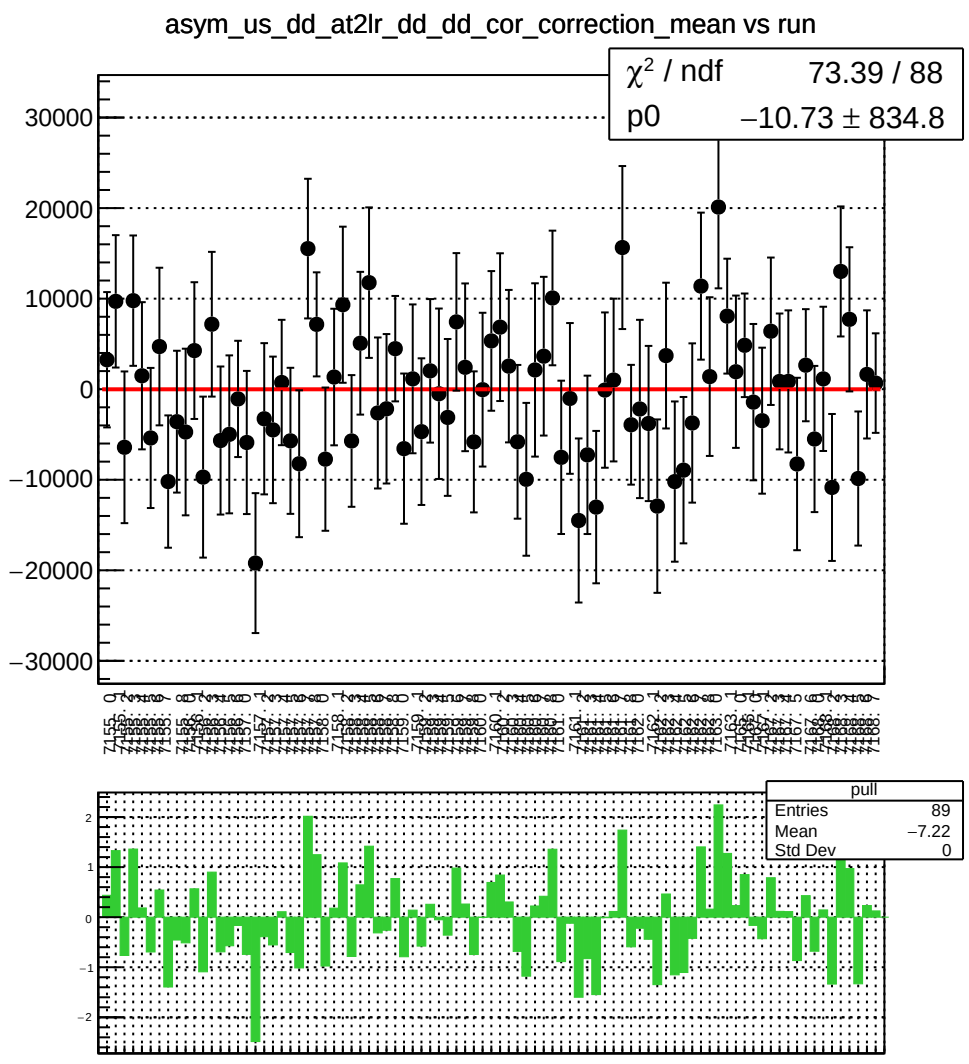

pull1D
Entries 89
Mean −0.0289
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

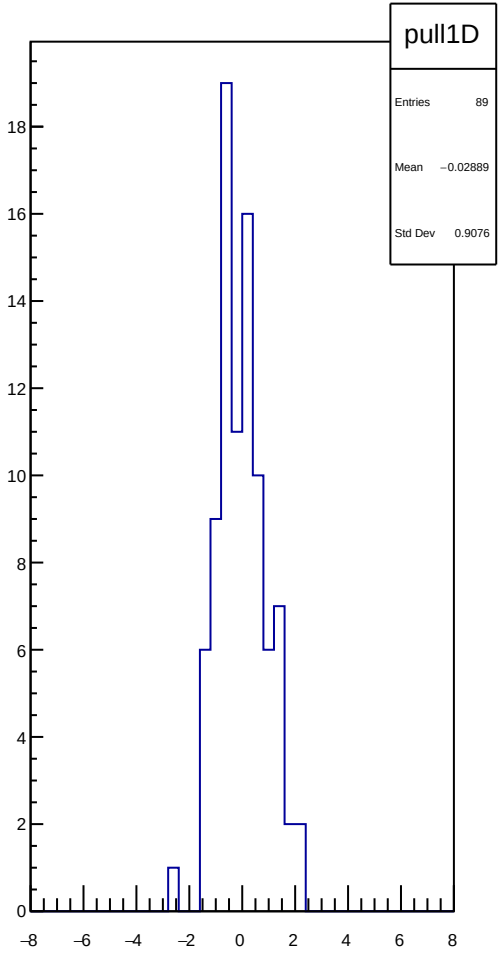

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 9244 / 88
p0 774.4 ± 0.5903
950
900
850
800
750
700
650

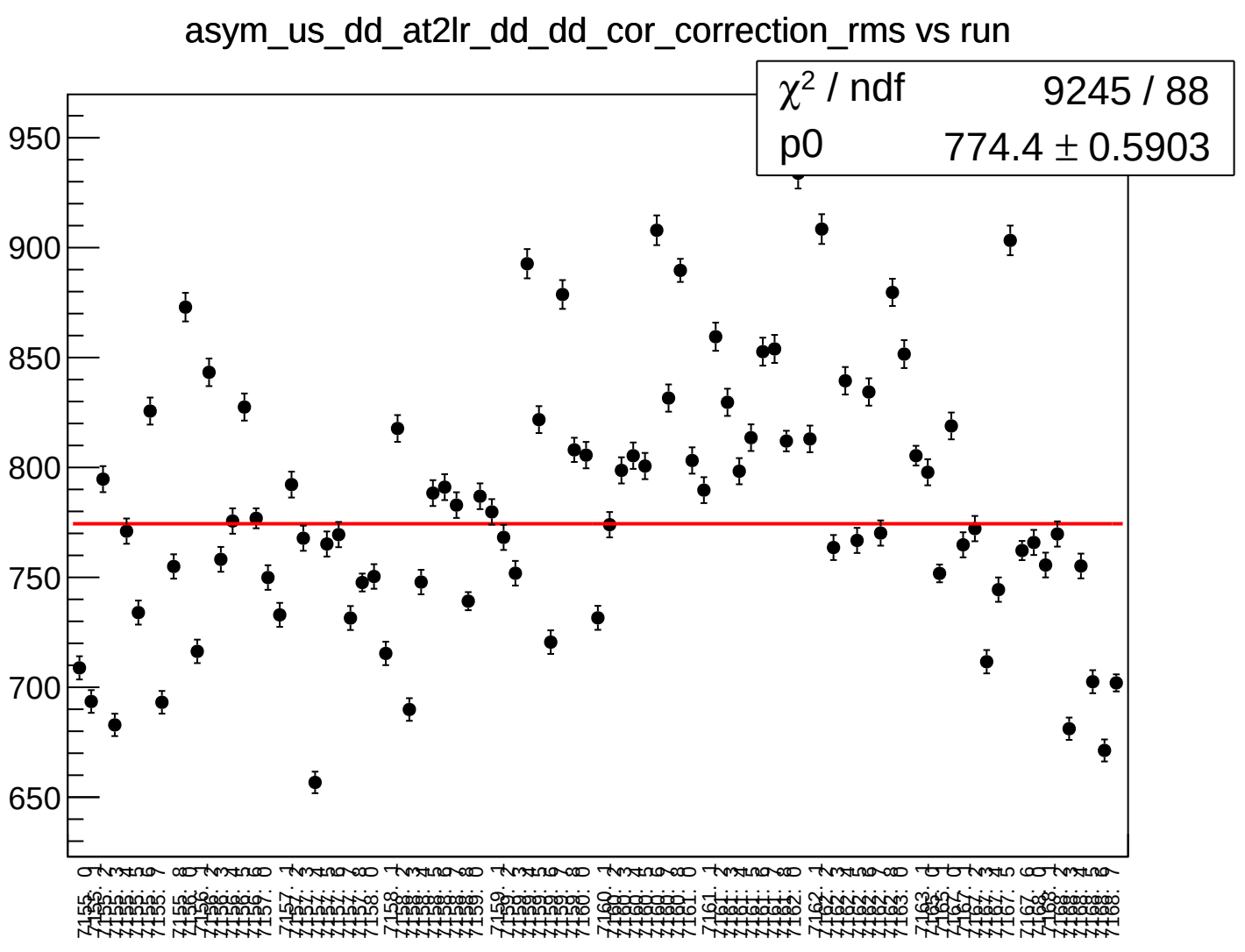

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 76.17 / 88
p0 −586.7 ± 1660
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1030
Std Dev 0
2
1
0
−1
−2

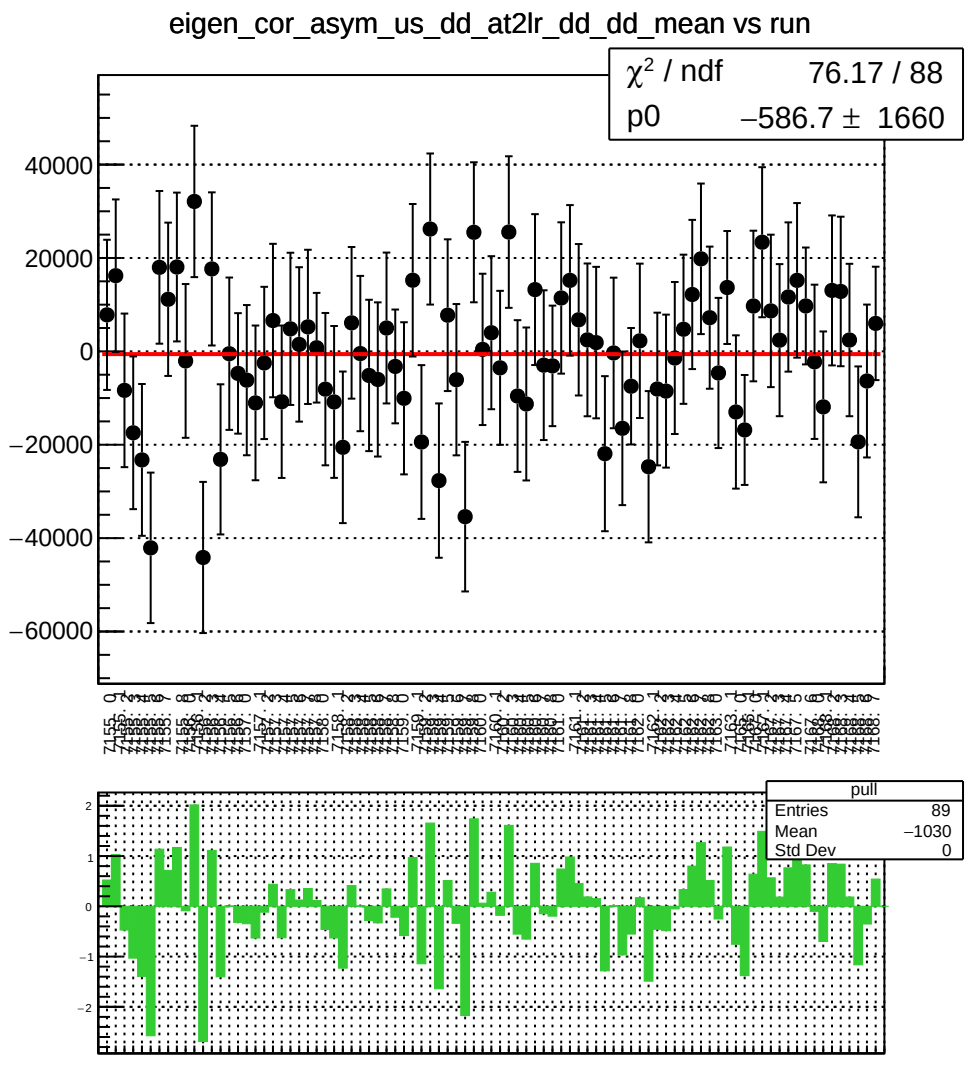

pull1D
Entries 89
Mean −0.0031
Std Dev 0.9251
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

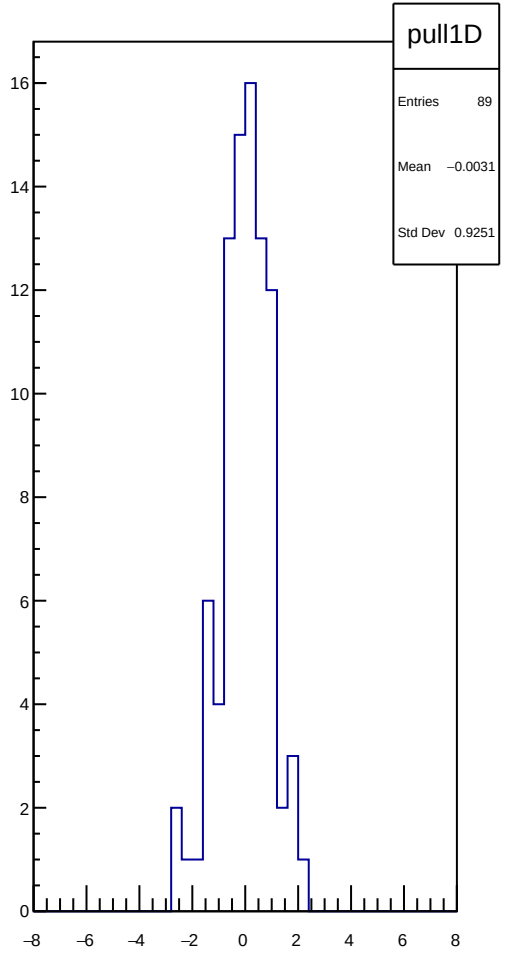

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 153.9 / 88
p0 1544 ± 1.174
1580
1560
1540
1520
1500

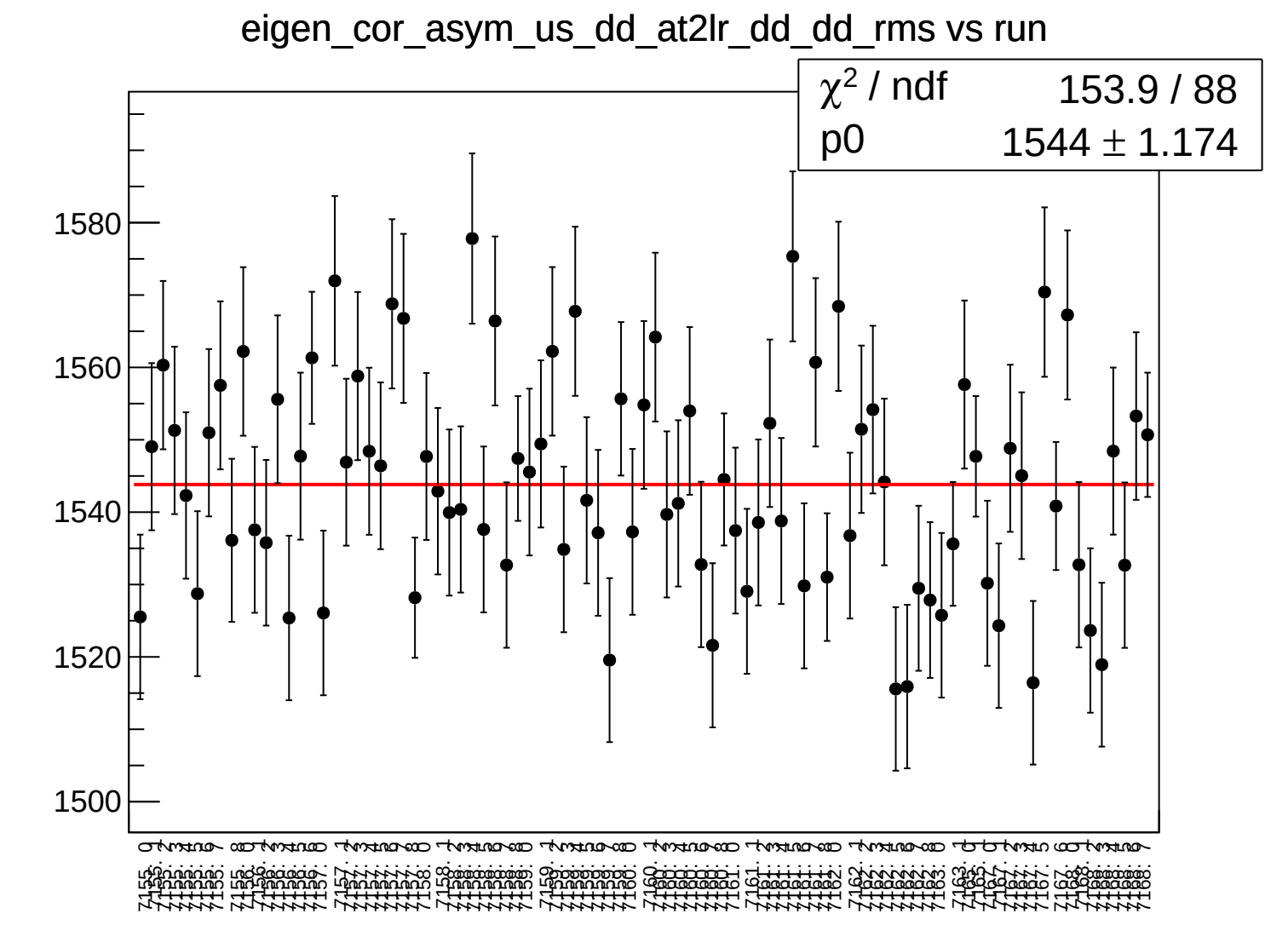

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 73.39 / 88
p0 −10.73 ± 834.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −7.22
Std Dev 0
2
1
0
−1
−2

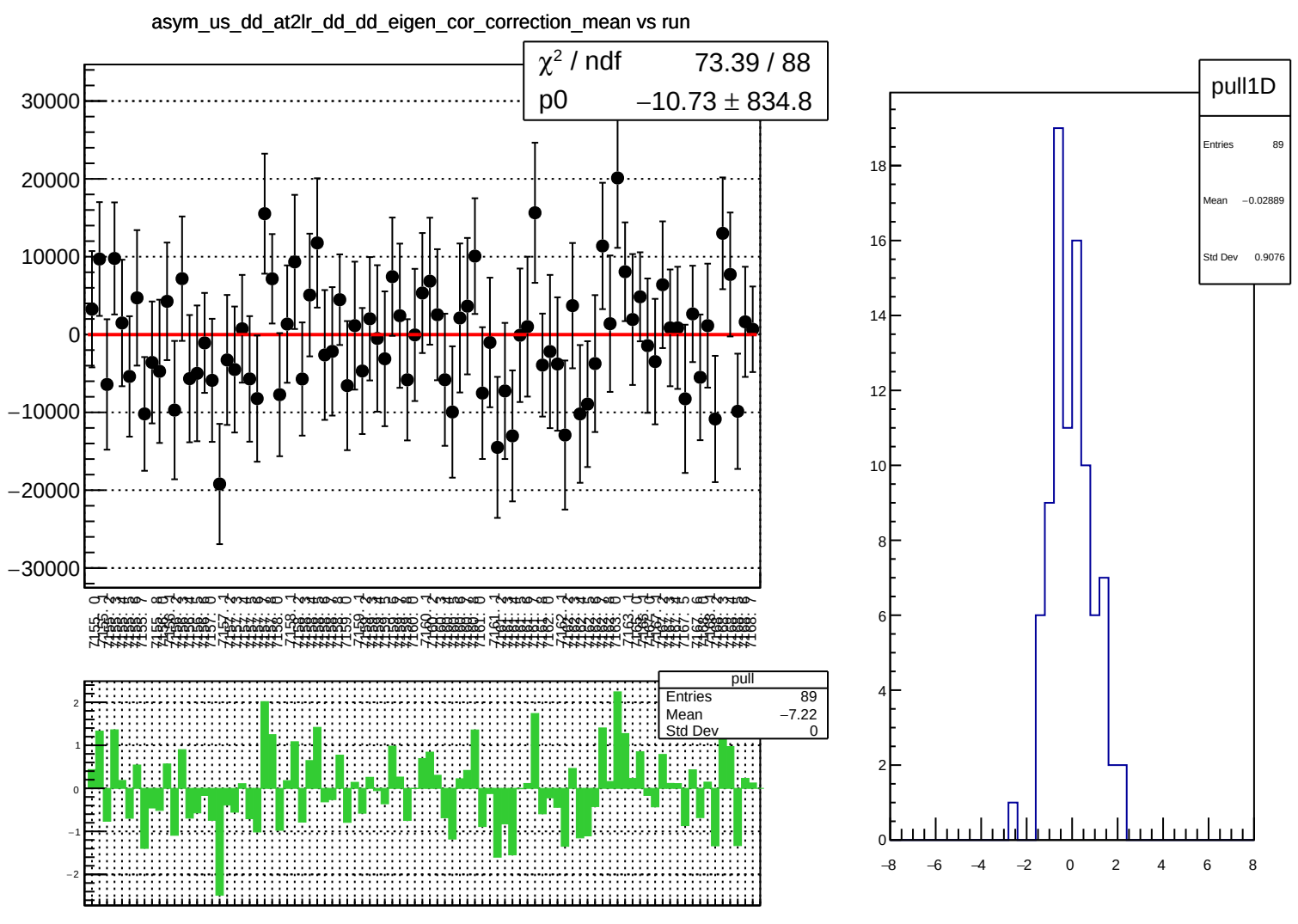

pull1D
Entries 89
Mean −0.02889
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

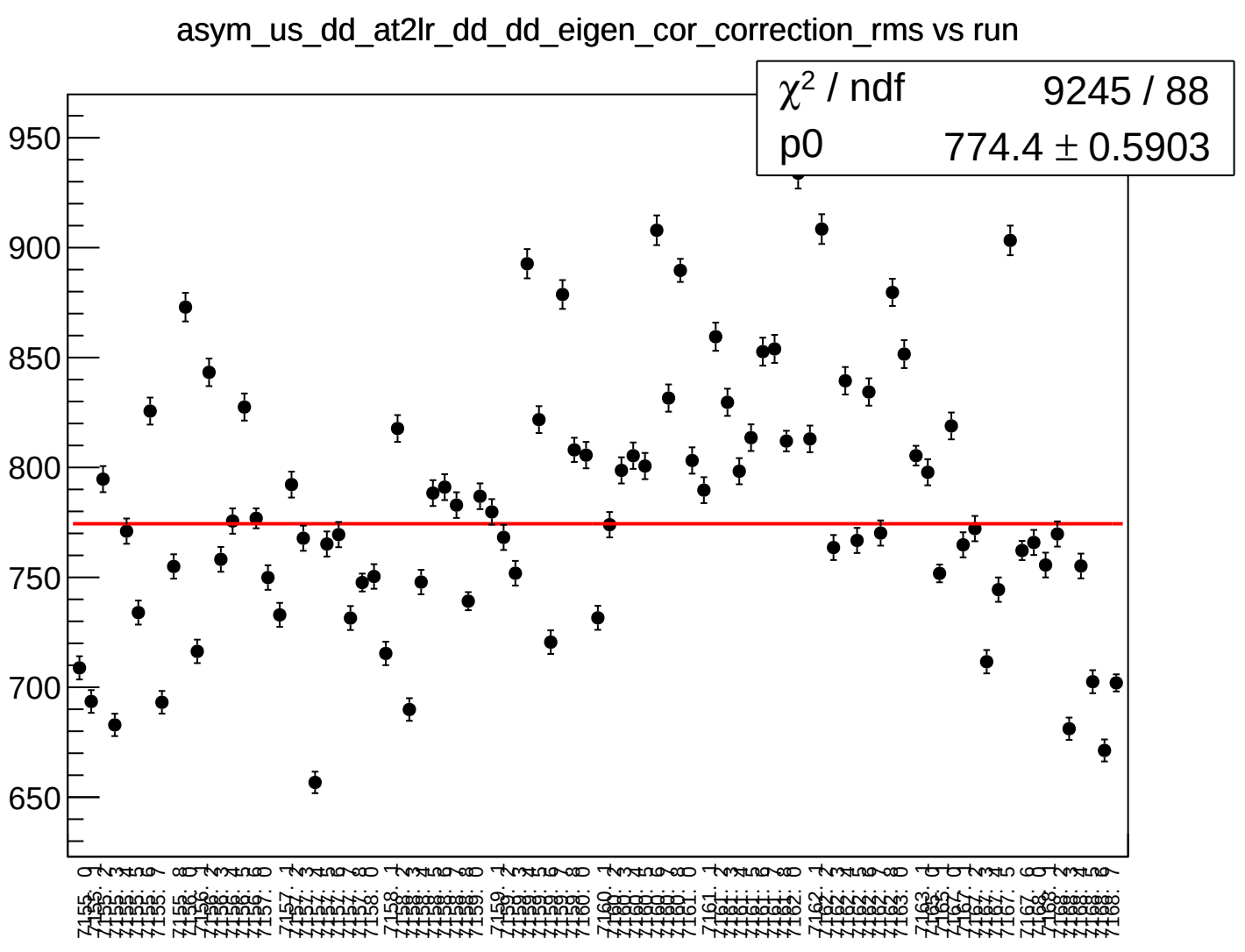

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 9245 / 88
p0 774.4 ± 0.5903
950
900
850
800
750
700
650

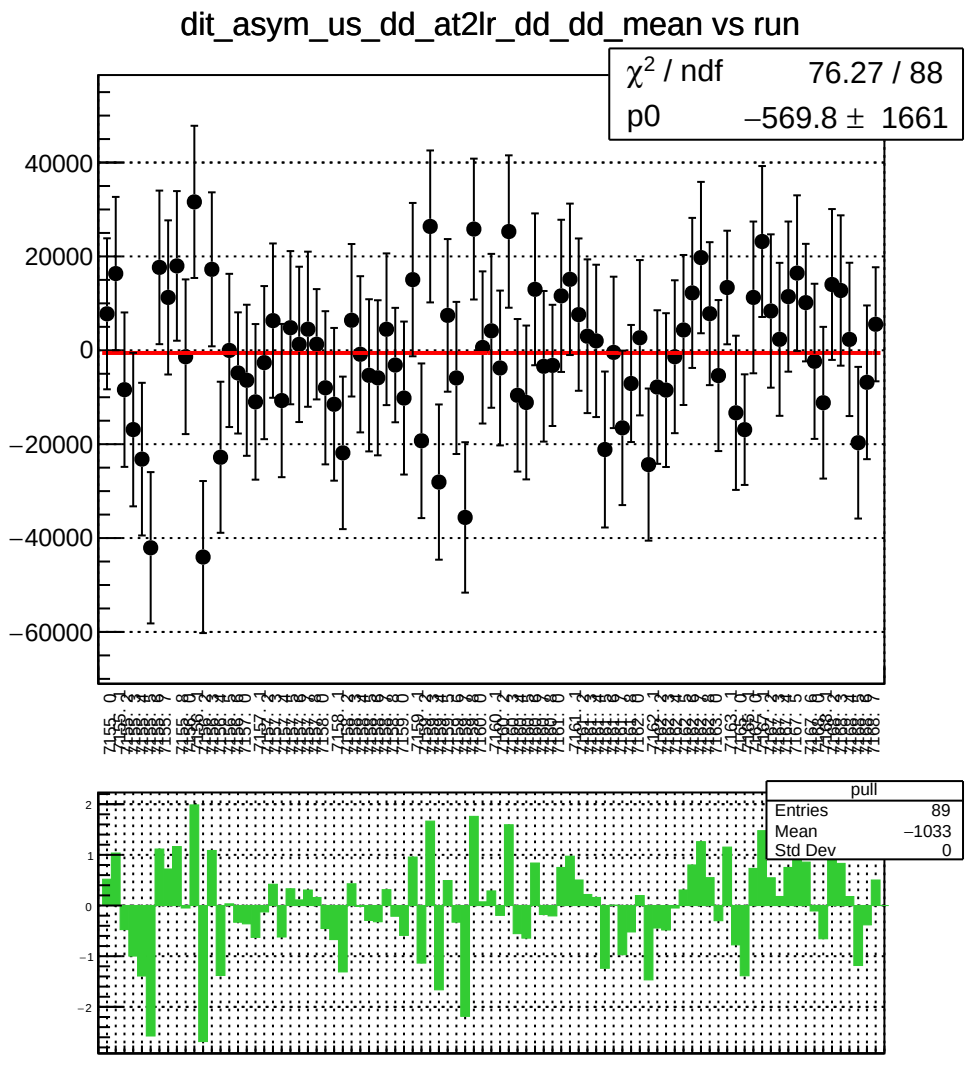

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 76.17 / 88
p0 −586.7 ± 1660
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1030
Std Dev 0
2
1
0
−1
−2

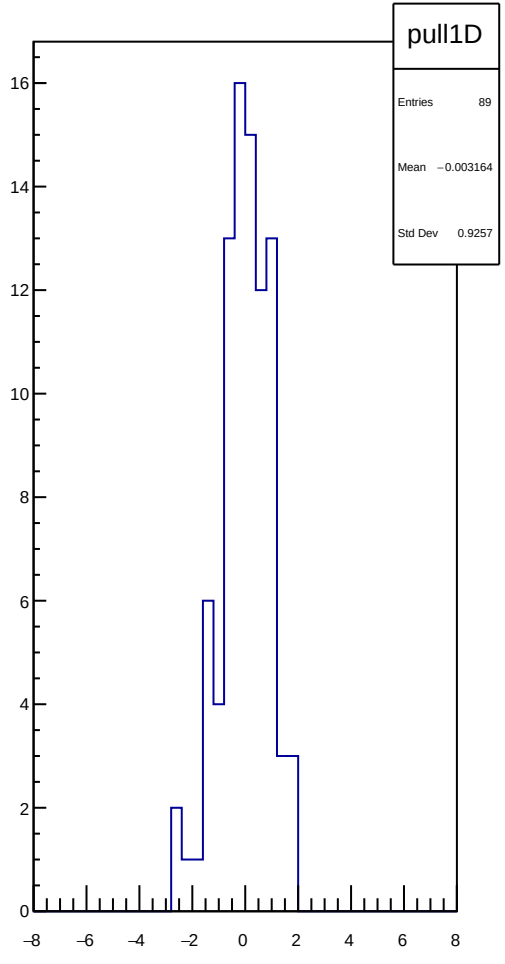

pull1D
Entries 89
Mean −0.0031
Std Dev 0.9251
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

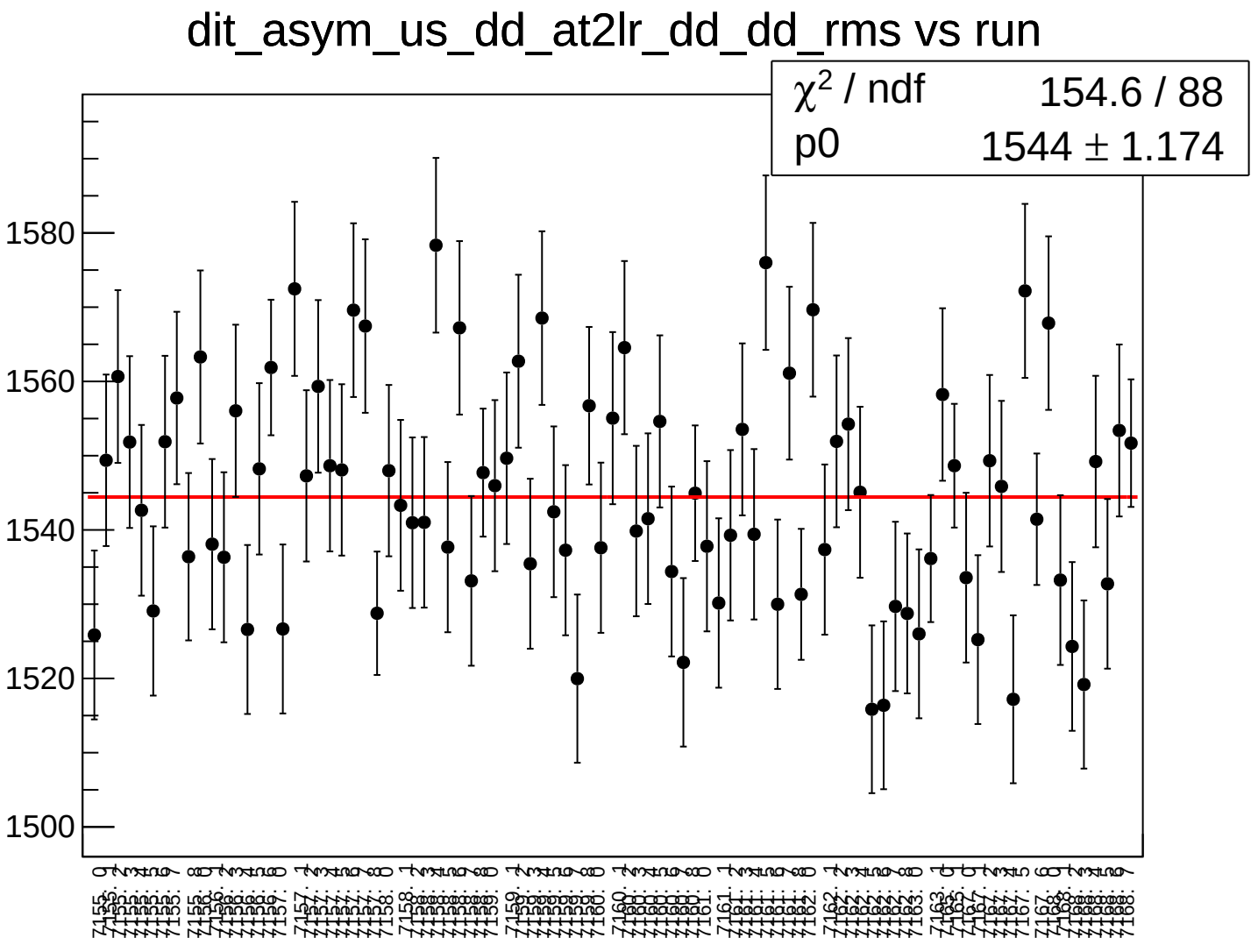

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 153.9 / 88
p0 1544 ± 1.174
1580
1560
1540
1520
1500

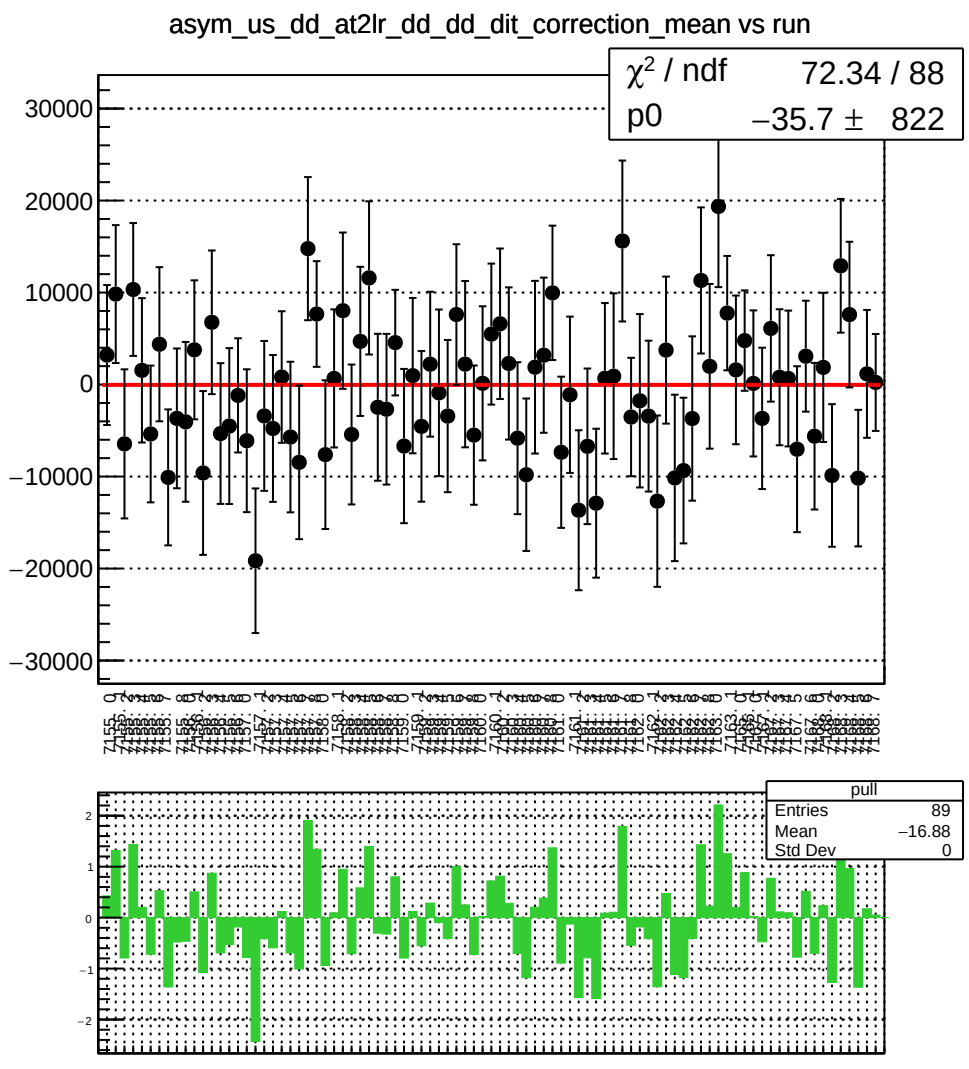

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.39 / 88
p0 −10.73 ± 834.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −7.22
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02889
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

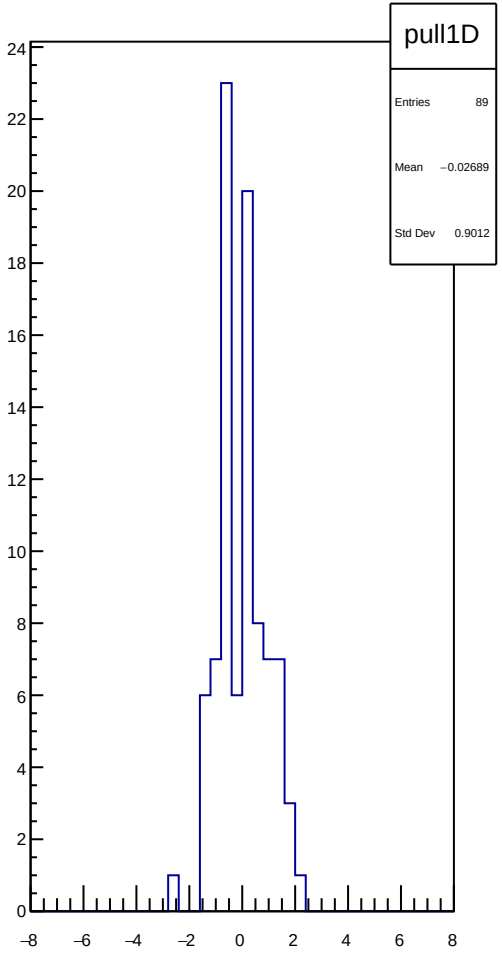

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9245 / 88
p0 774.4 ± 0.5903
950
900
850
800
750
700
650

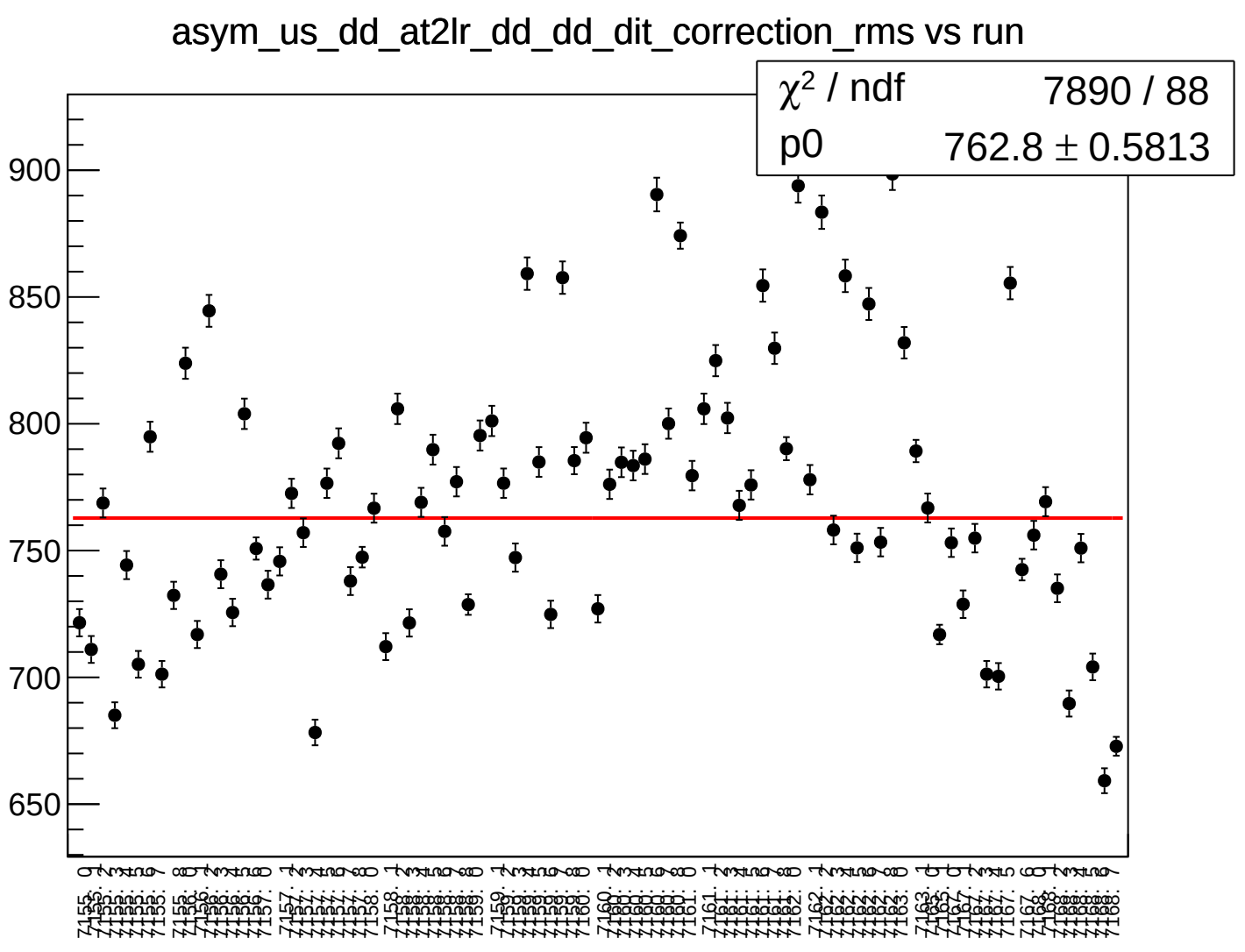

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 76.27 / 88
p0 −569.8 ± 1661
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1033
Std Dev 0
2
1
0
−1
−2

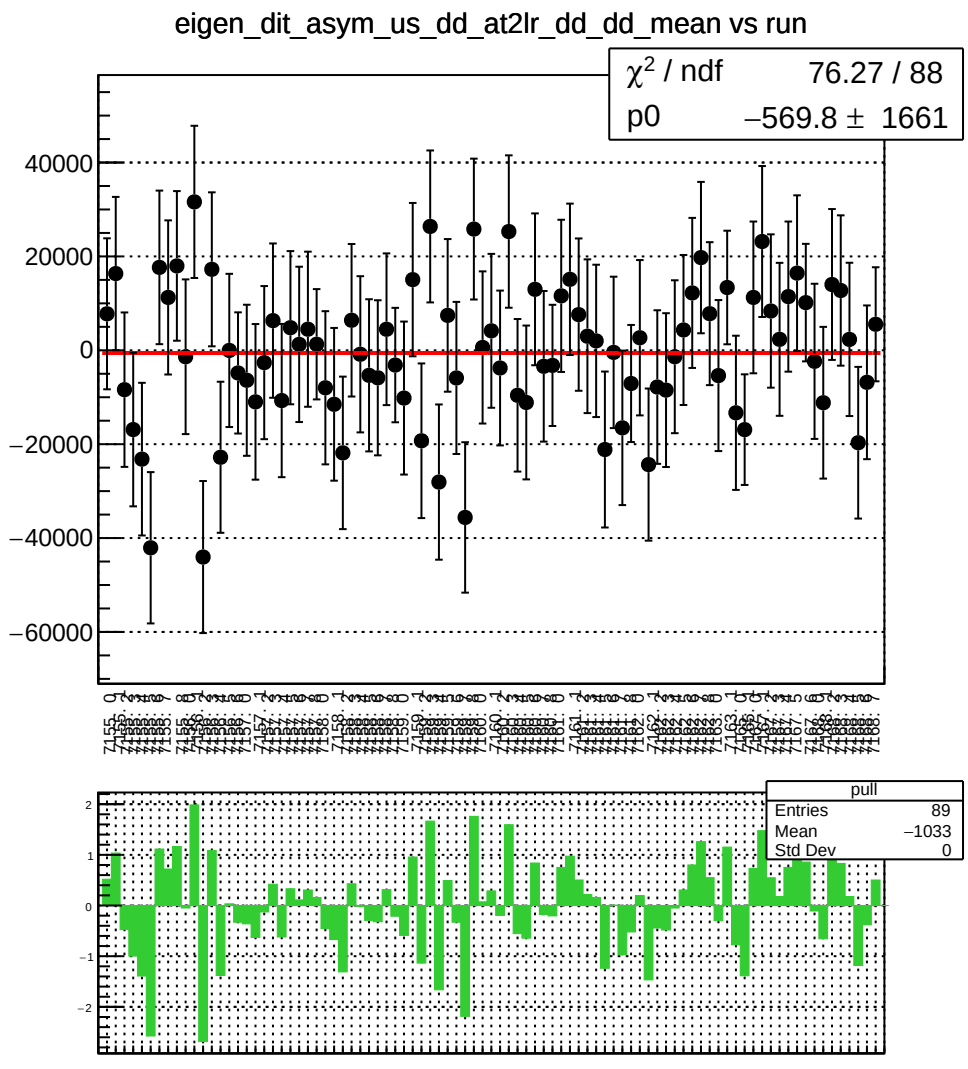

pull1D
Entries 89
Mean −0.003164
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

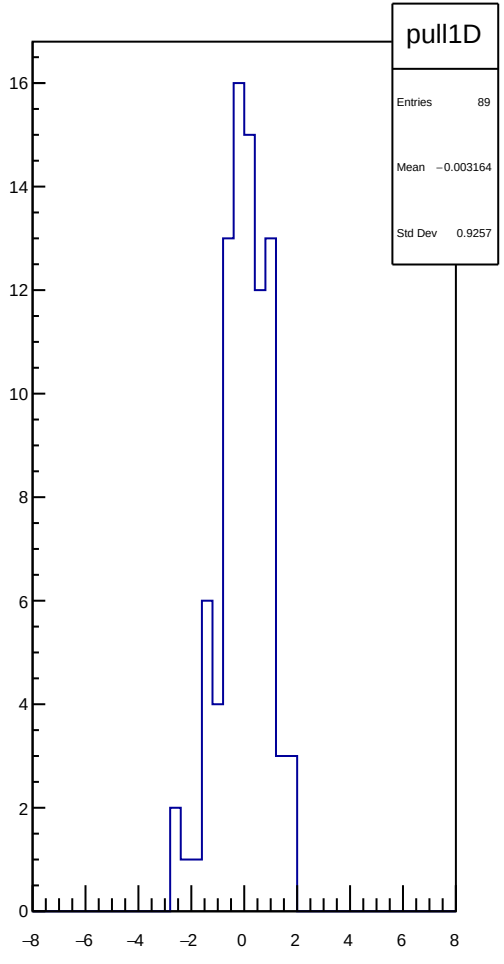

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ^2 / ndf 154.6 / 88
p0 1544 ± 1.174
1580
1560
1540
1520
1500

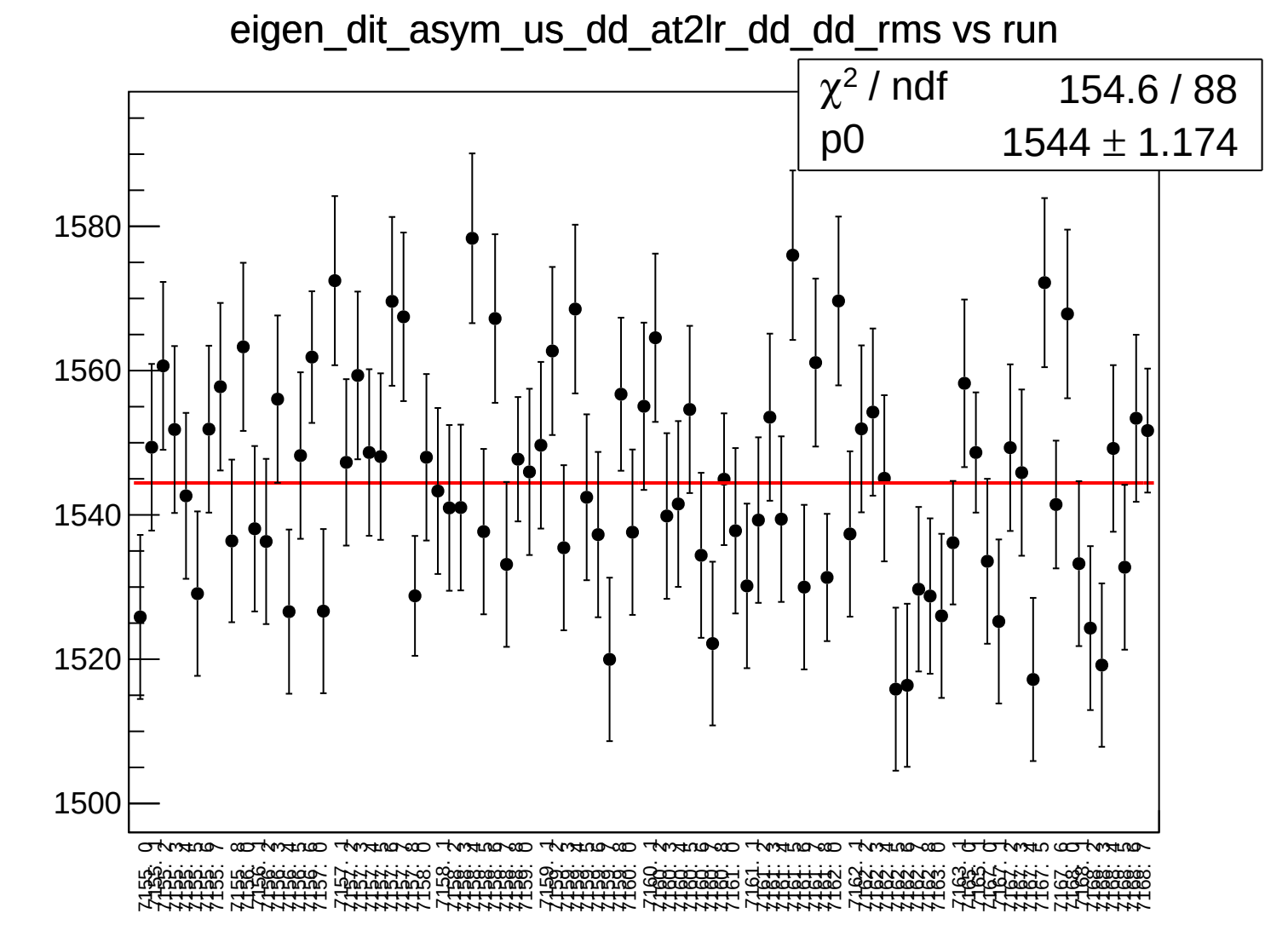

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 72.34 / 88
p0 −35.7 ± 822
pull
Entries 89
Mean −16.88
Std Dev 0

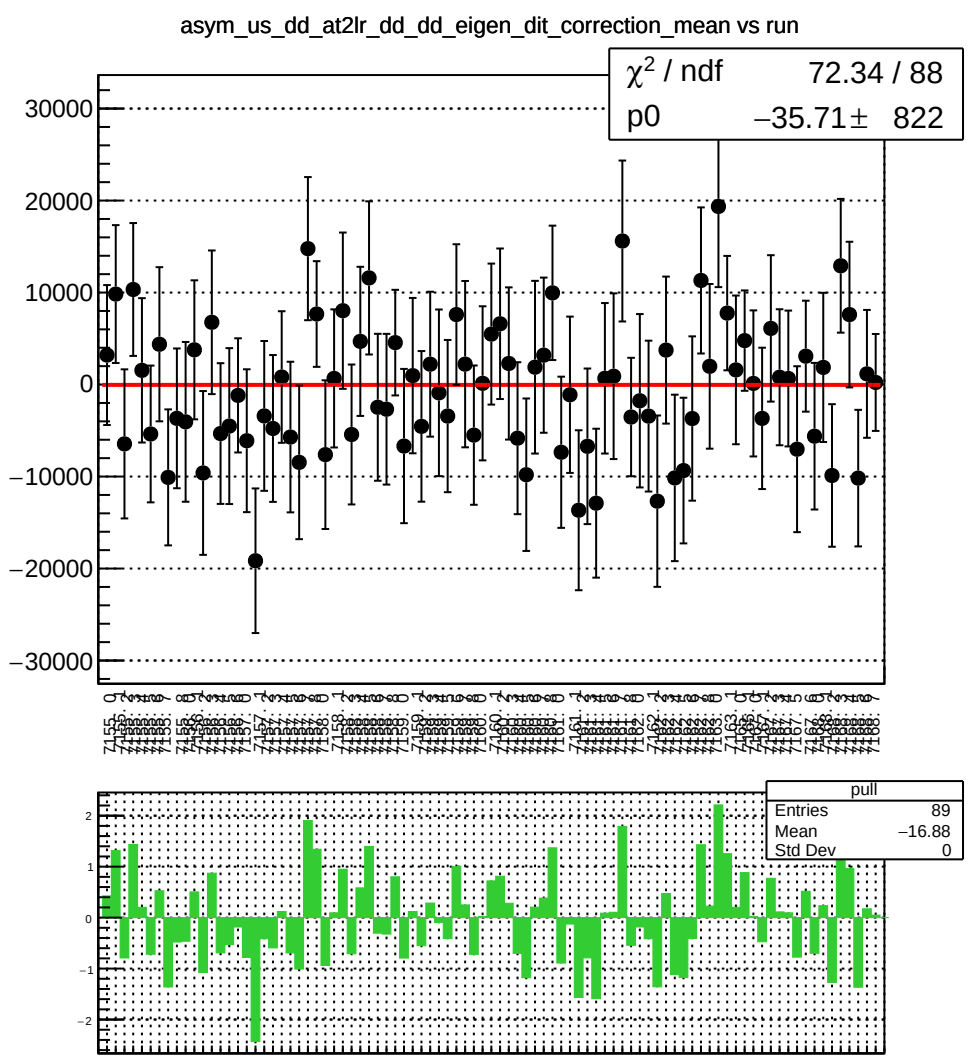

pull1D
Entries 89
Mean −0.02689
Std Dev 0.9012

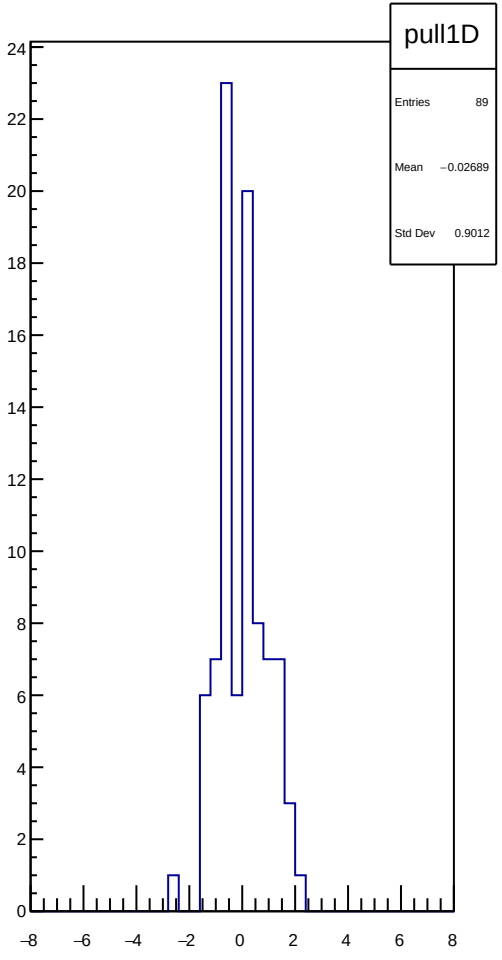

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7890 / 88
p0 762.8 ± 0.5813
900
850
800
750
700
650

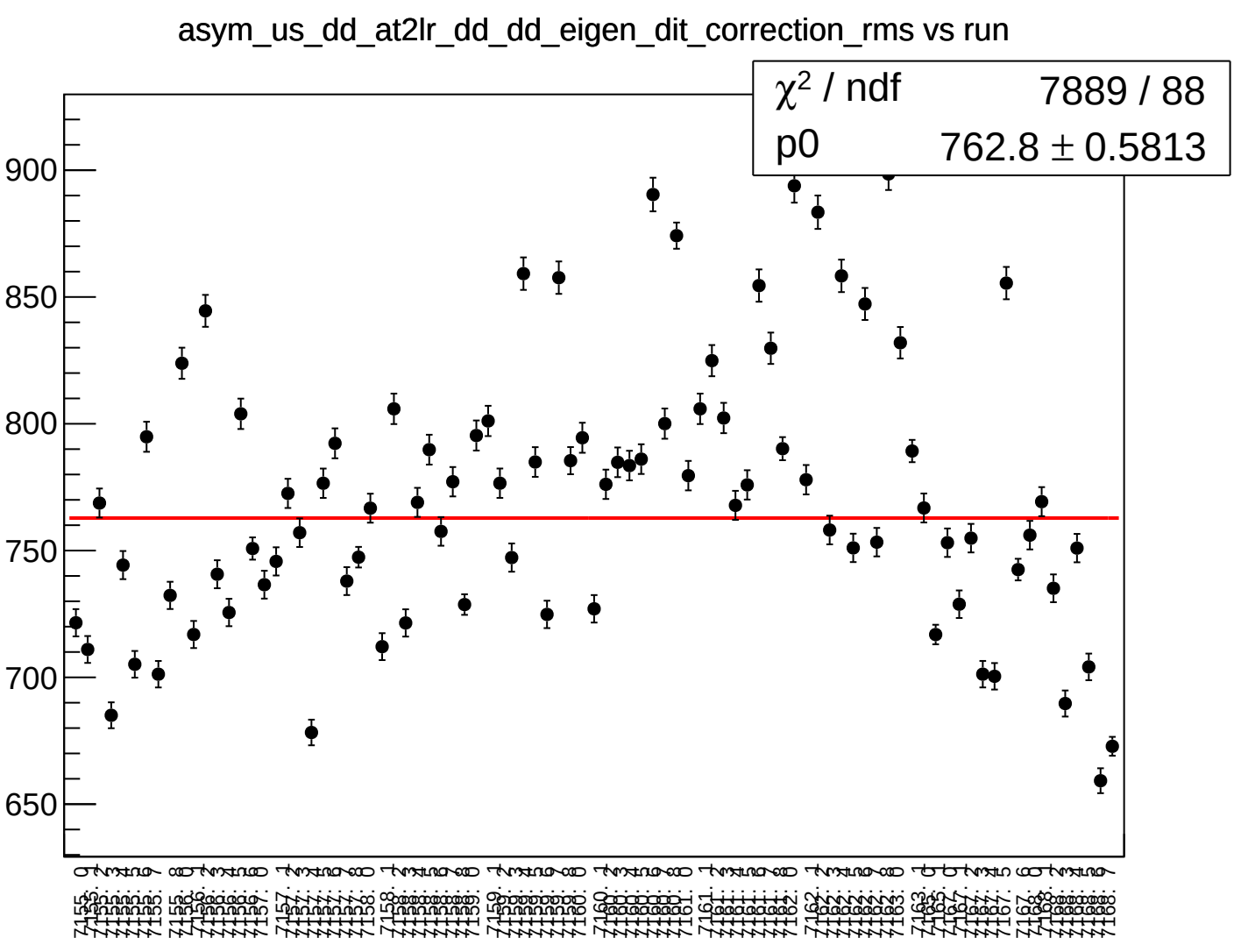

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 76.27 / 88
p0 −569.8 ± 1661
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −1033
Std Dev 0
2
1
0
−1
−2

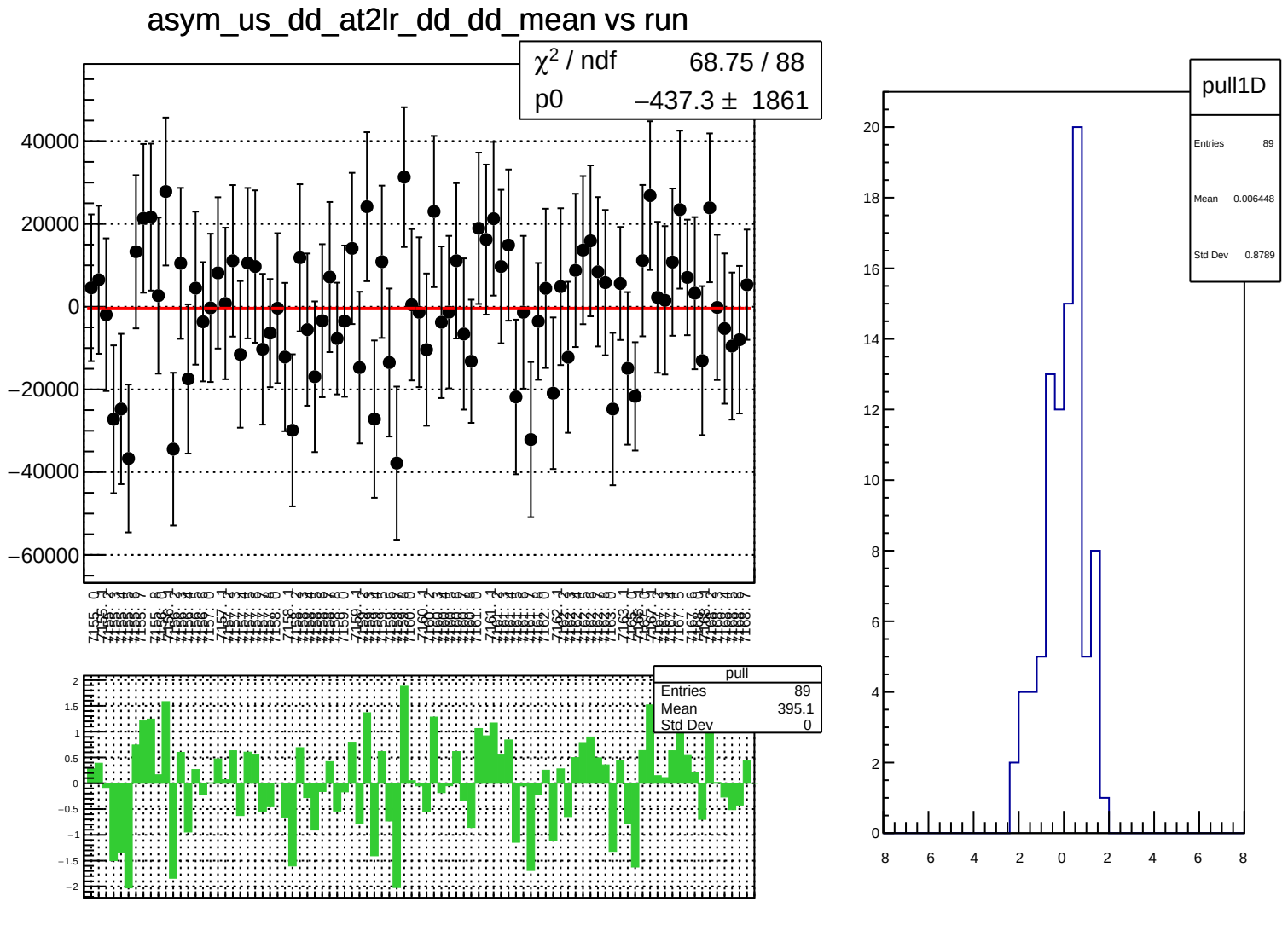

pull1D
Entries 89
Mean −0.003164
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

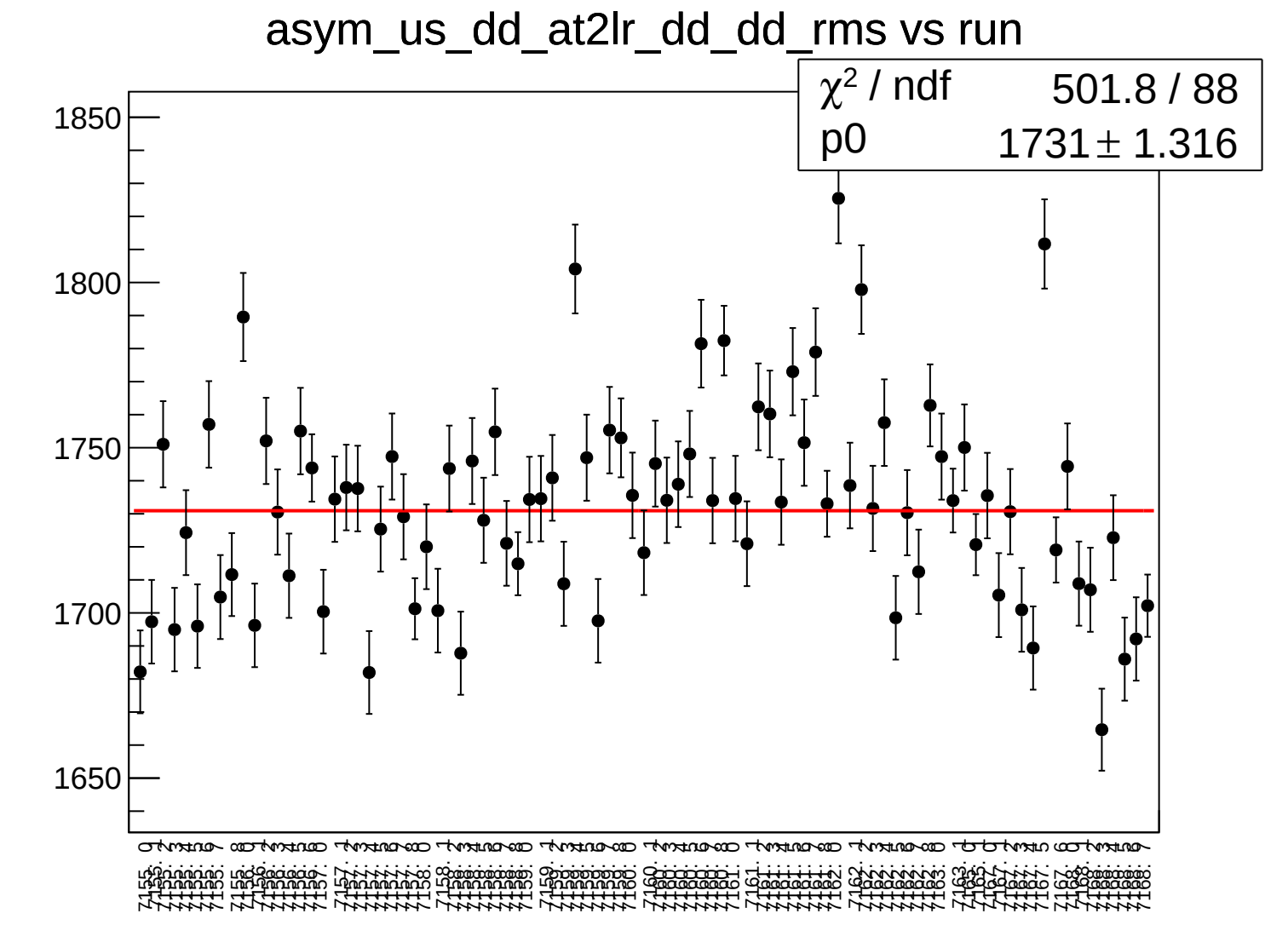

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 154.6 / 88
p0 1544 ± 1.174
1580
1560
1540
1520
1500

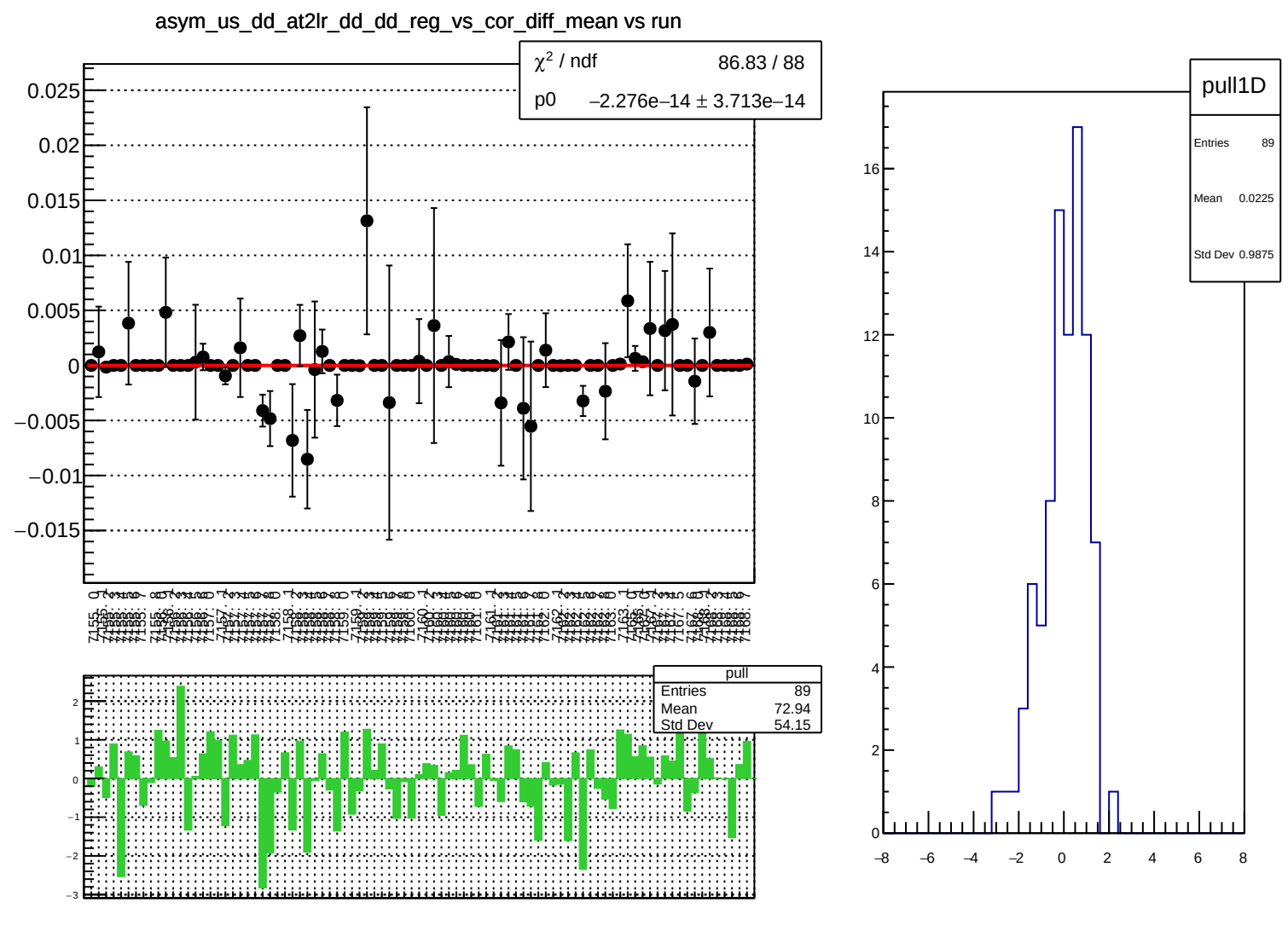

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.34 / 88
p0 −35.71 ± 822
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −16.88
Std Dev 0
2
1
0
−1
−2

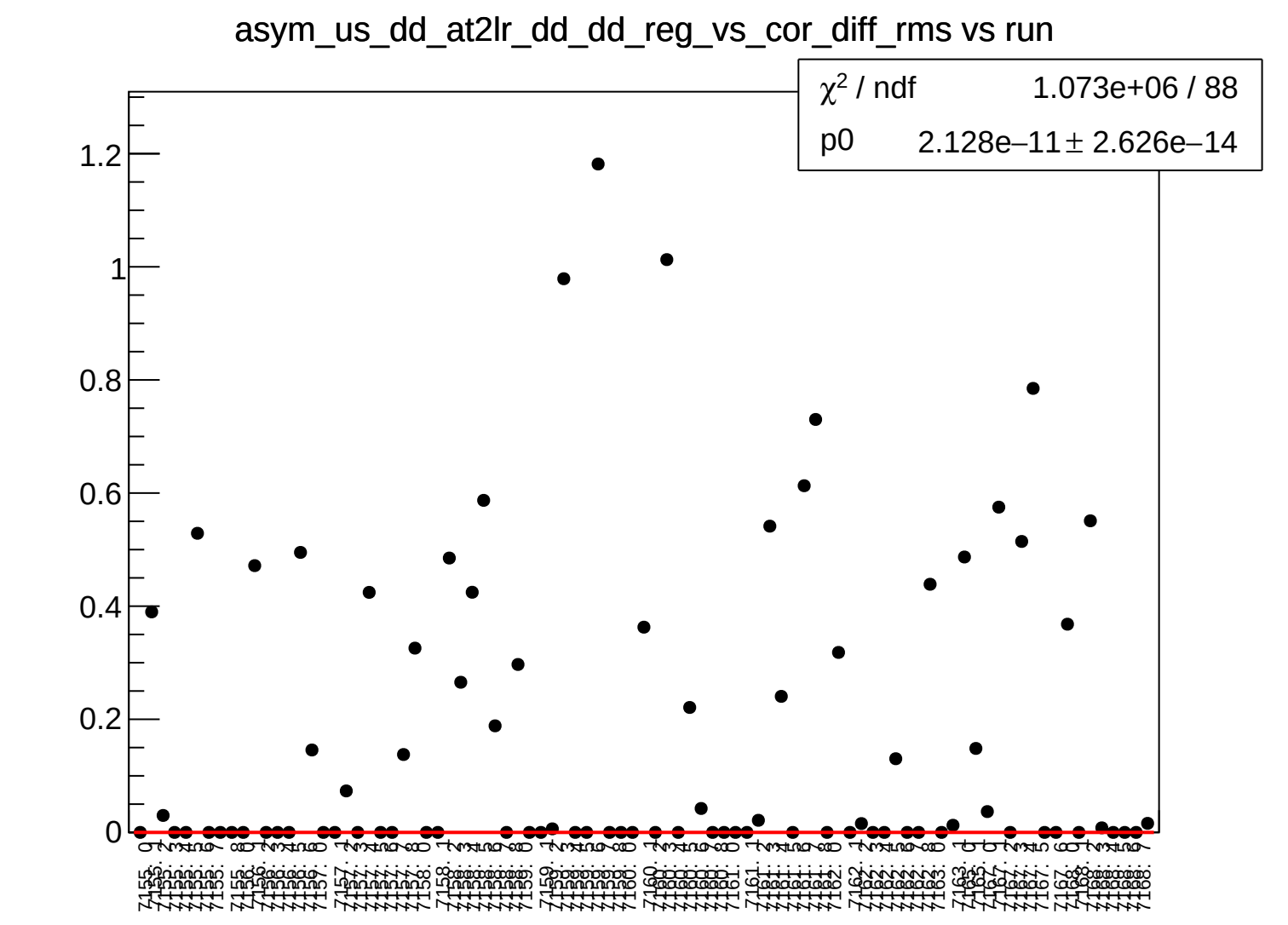

pull1D
Entries 89
Mean −0.02689
Std Dev 0.9012
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

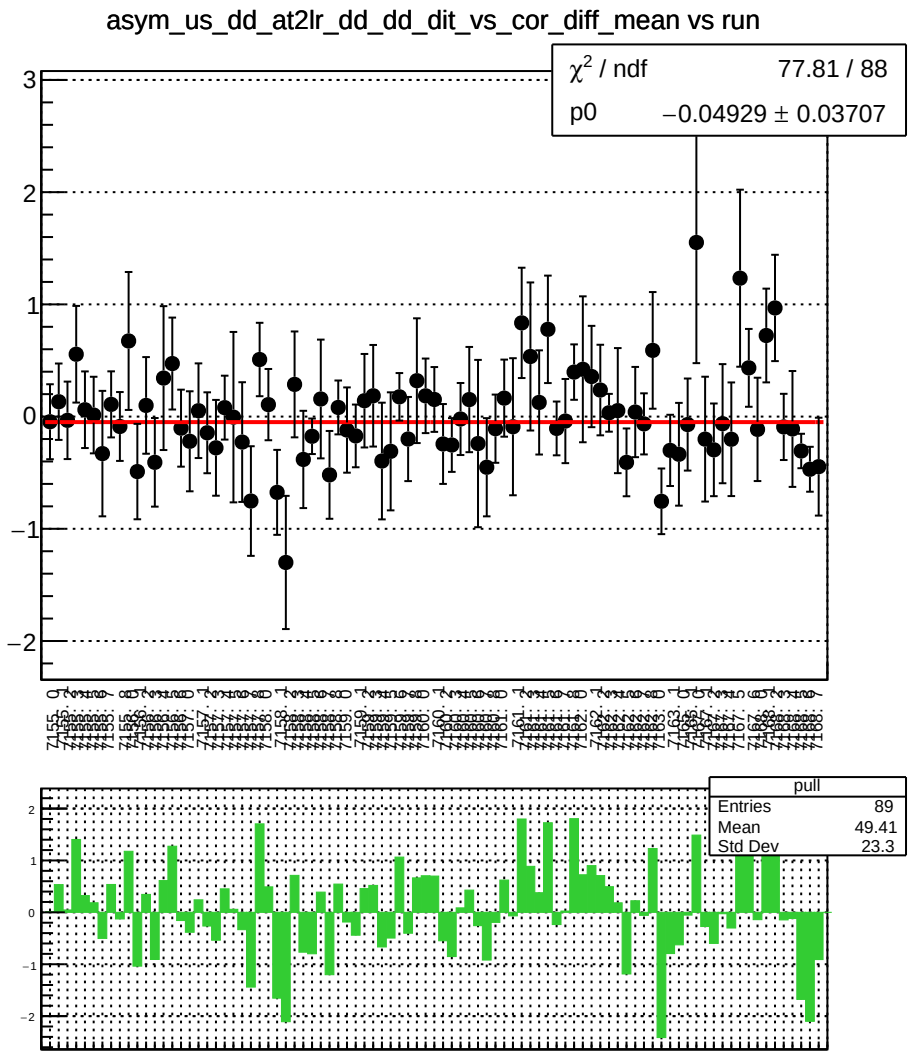

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7889 / 88
p0 762.8 ± 0.5813
900
850
800
750
700
650

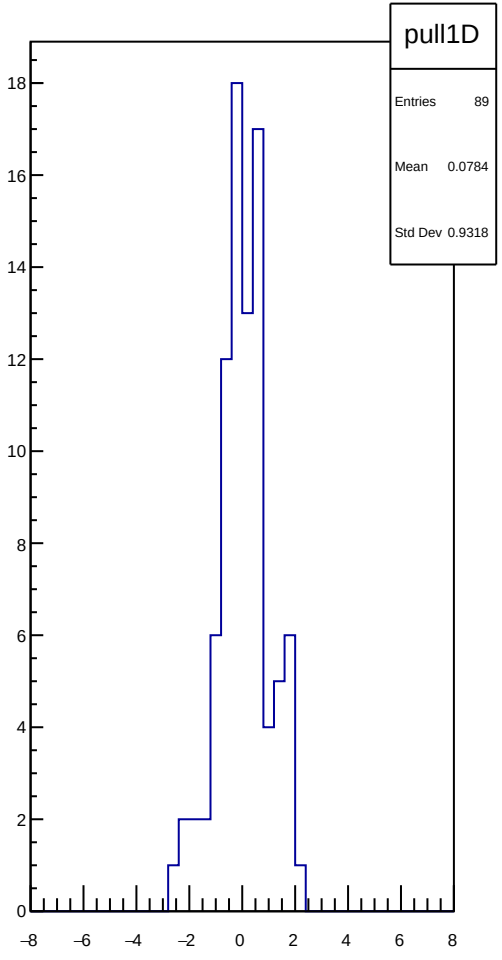

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 68.75 / 88
p0 −437.3 ± 1861
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean 395.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.006448
Std Dev 0.8789
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

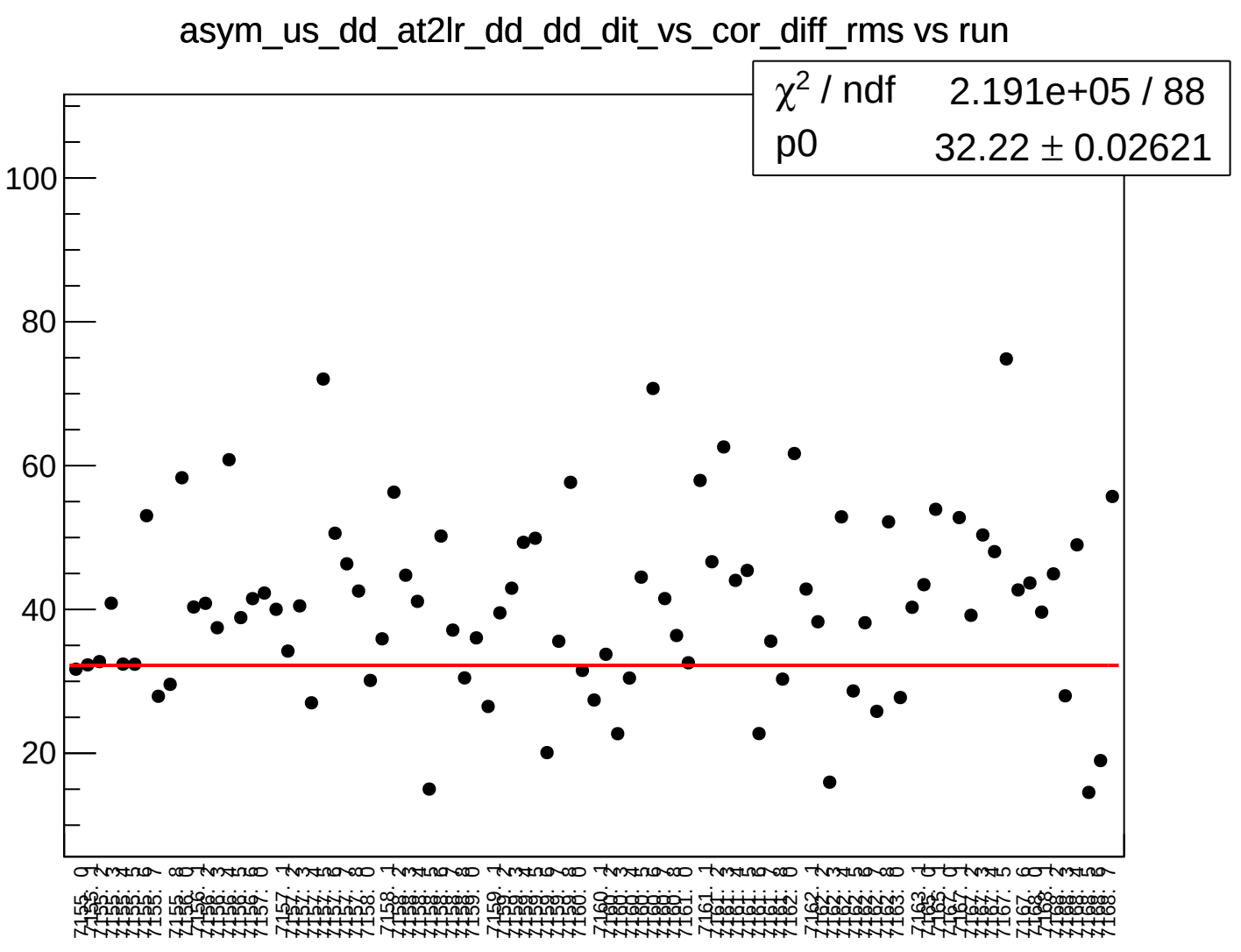

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 501.8 / 88
p0 1731 ± 1.316
1850
1800
1750
1700
1650

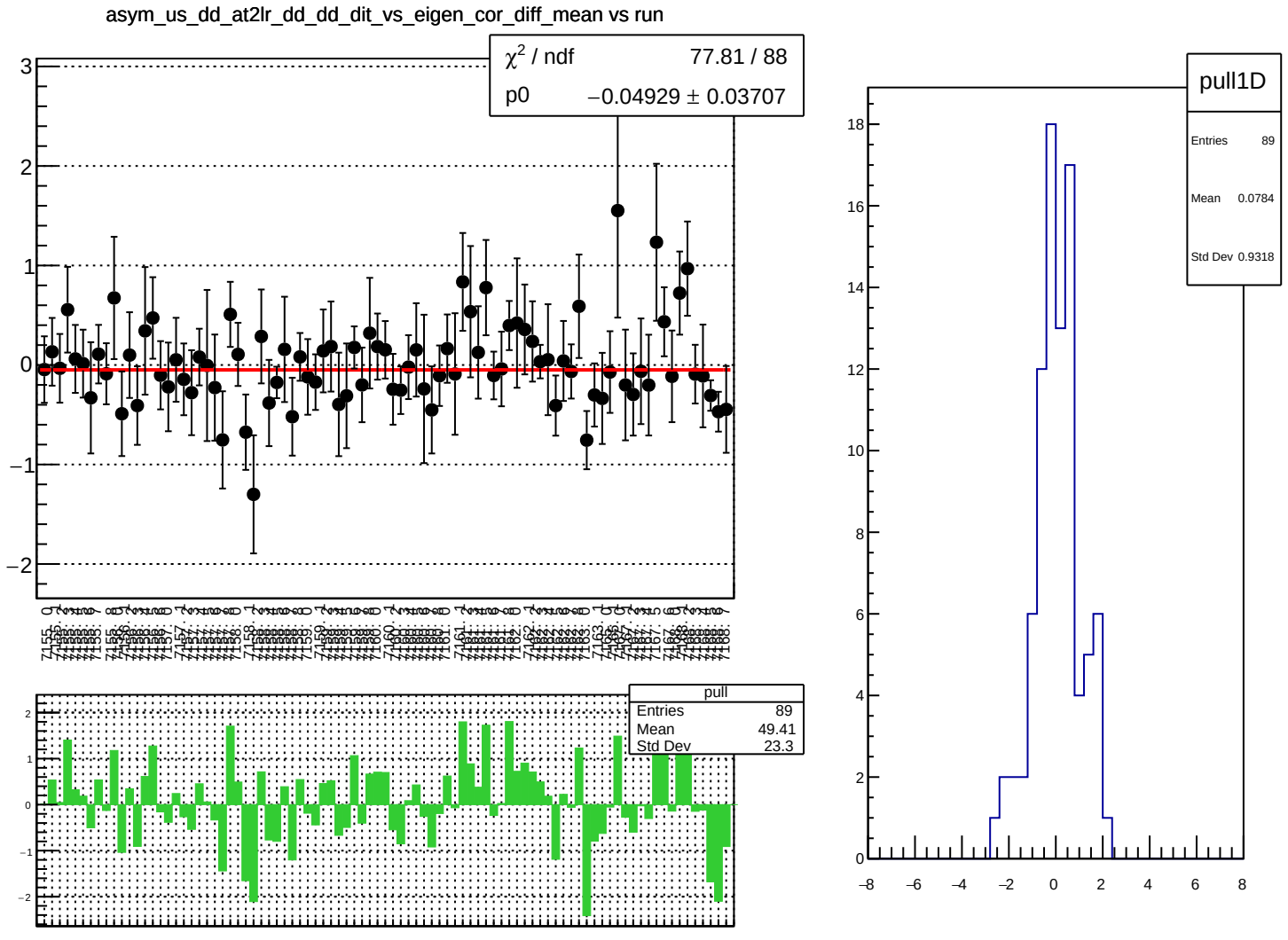

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.83 / 88
p0 −2.276e−14 ± 3.713e−14
pull
Entries 89
Mean 72.94
Std Dev 54.15
pull1D
Entries 89
Mean 0.0225
Std Dev 0.9875

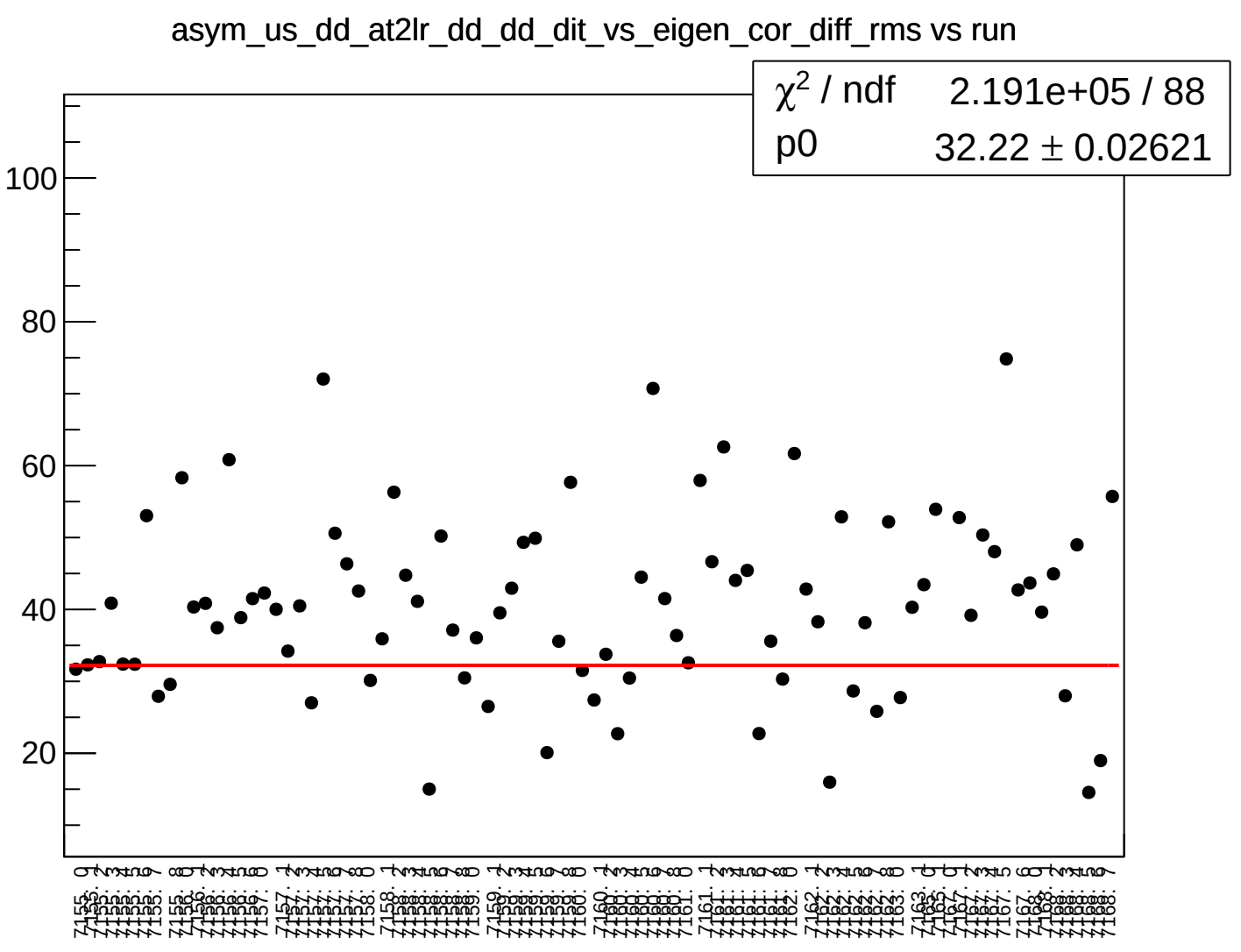

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.073e+06 / 88
p0 2.128e−11 ± 2.626e−14
1.2
1
0.8
0.6
0.4
0.2
0

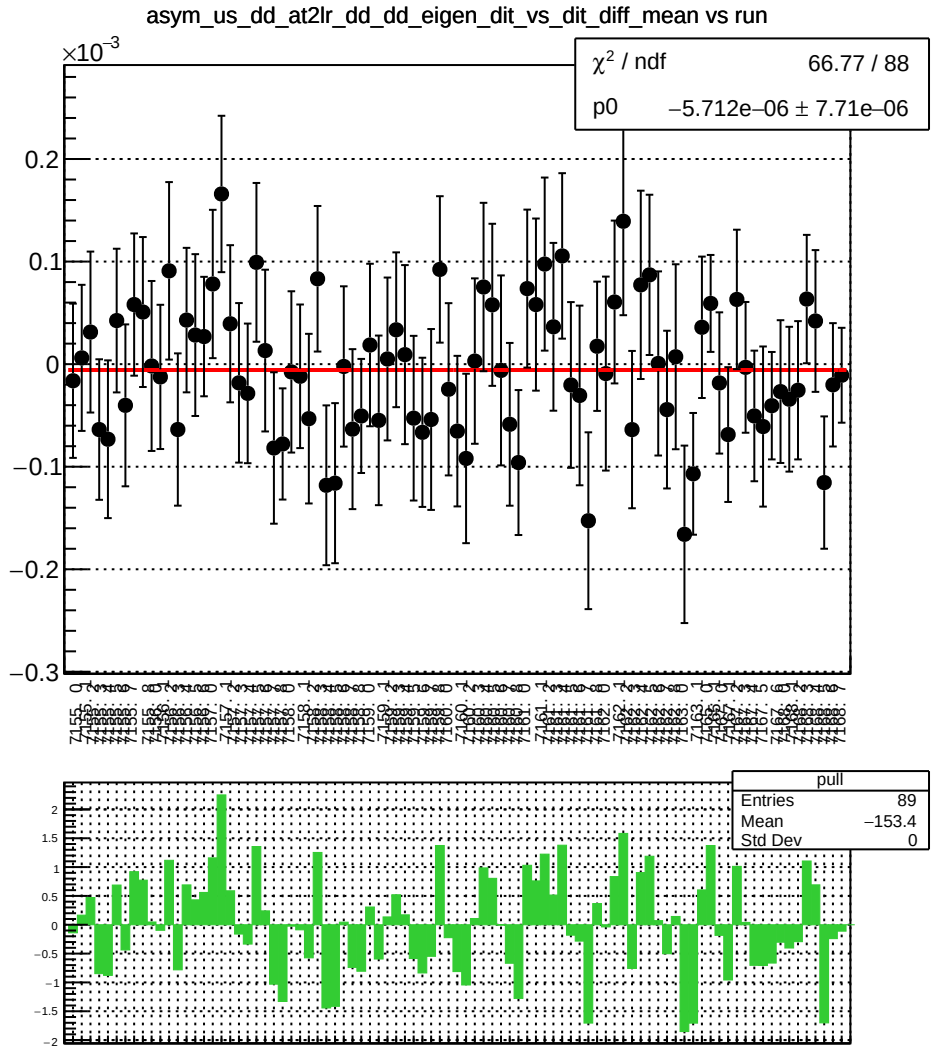

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 77.81 / 88
p0 −0.04929 ± 0.03707
pull
Entries 89
Mean 49.41
Std Dev 23.3

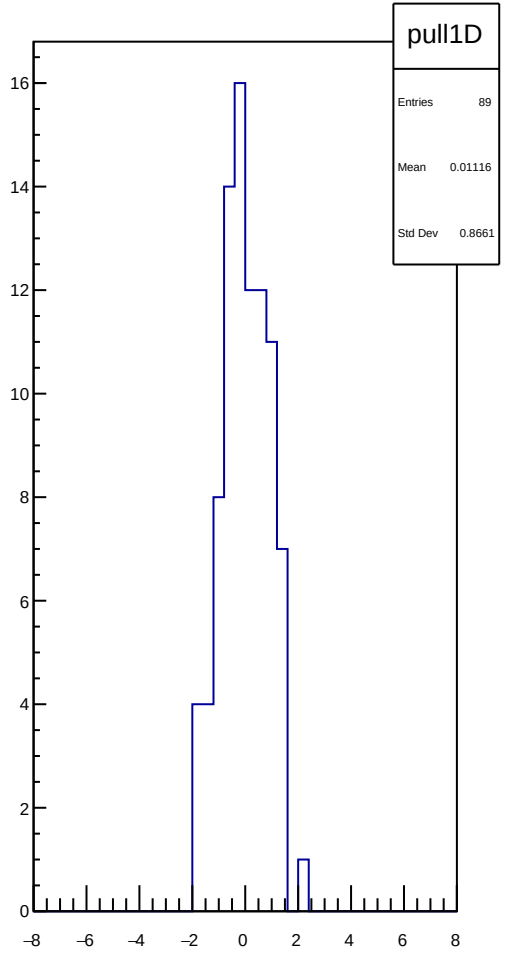

pull1D
Entries 89
Mean 0.0784
Std Dev 0.9318

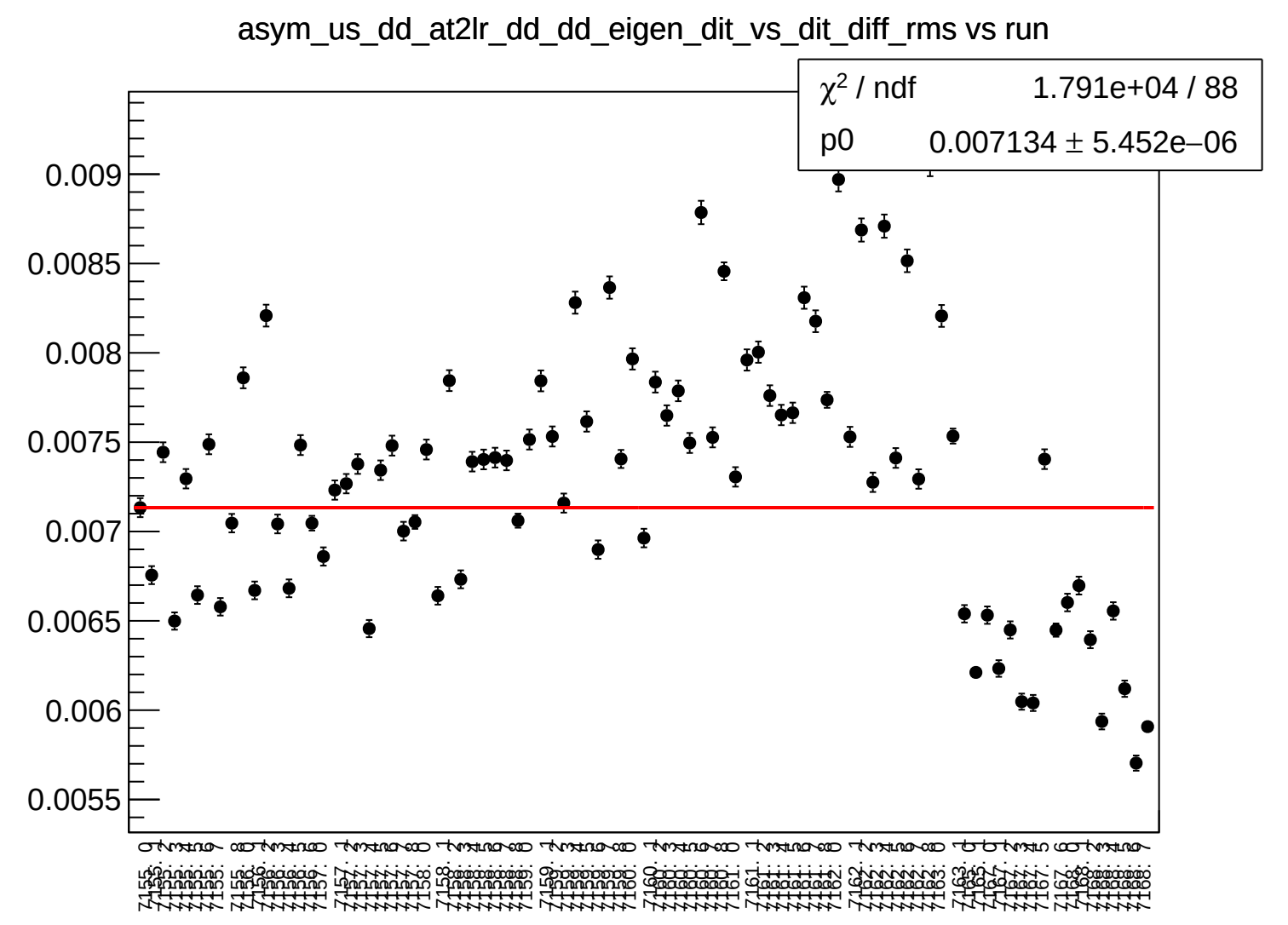

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.191e+05 / 88
p0 32.22 ± 0.02621
100
80
60
40
20

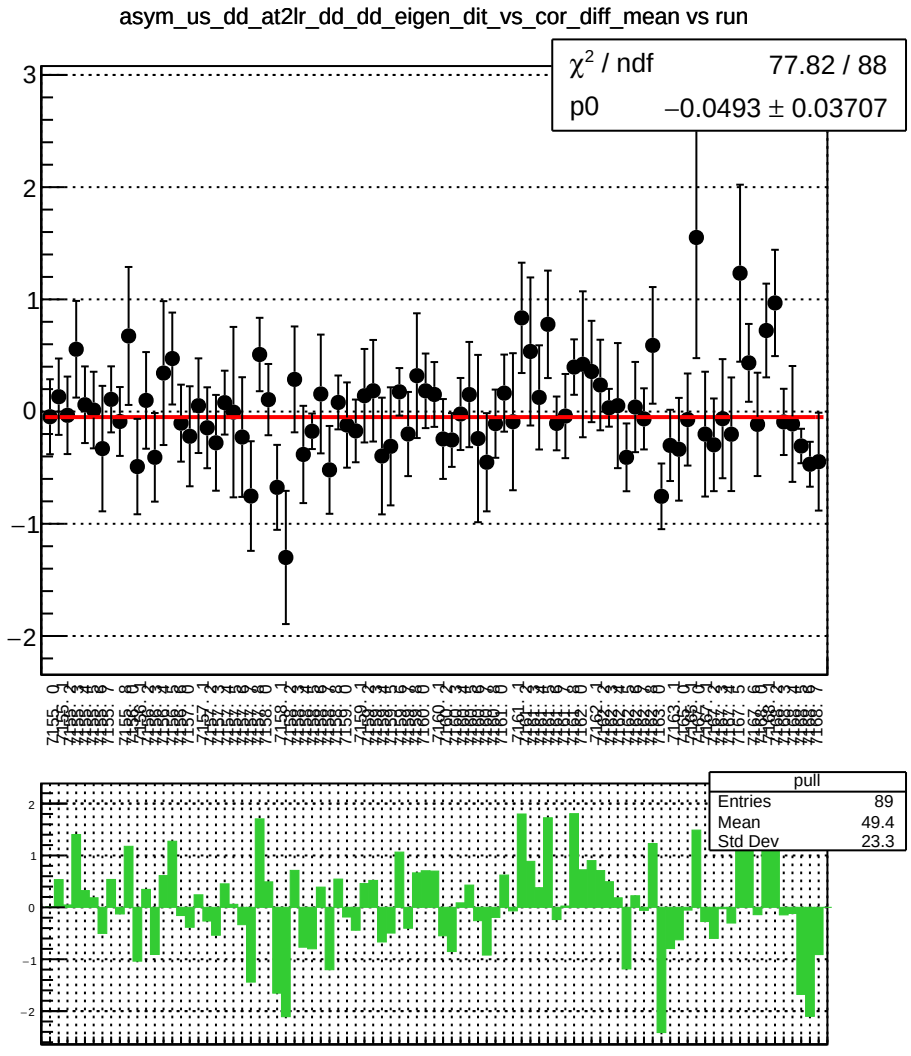

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.81 / 88
p0 −0.04929 ± 0.03707
pull
Entries 89
Mean 49.41
Std Dev 23.3
pull1D
Entries 89
Mean 0.0784
Std Dev 0.9318

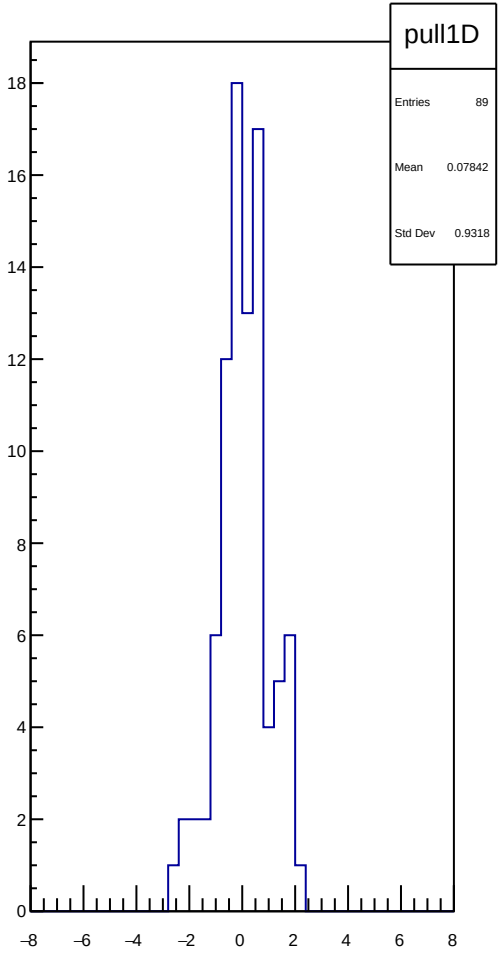

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.191e+05 / 88
p0 32.22 ± 0.02621
100
80
60
40
20

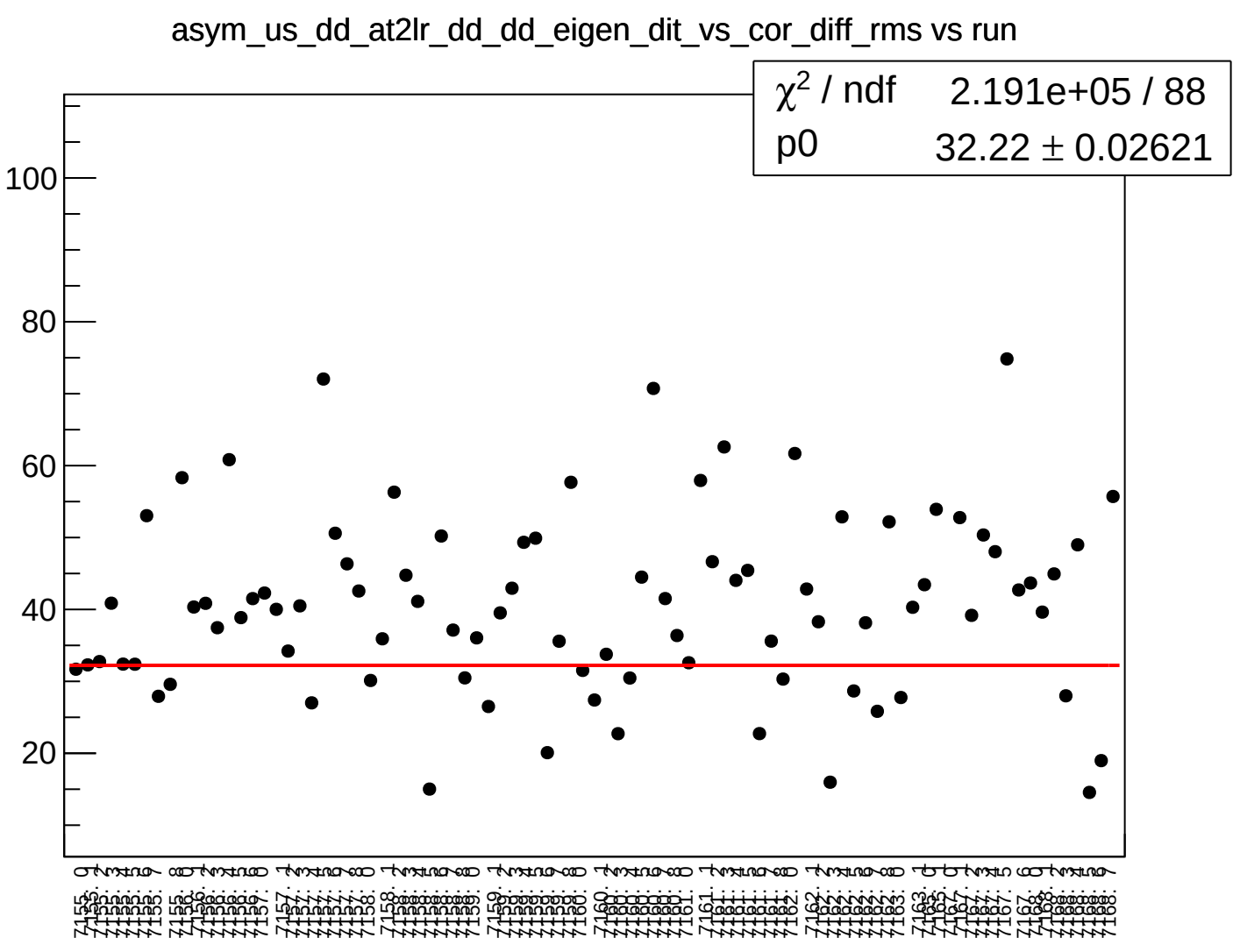

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.77 / 88
p0 −5.712e−06 ± 7.71e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 89
Mean −153.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

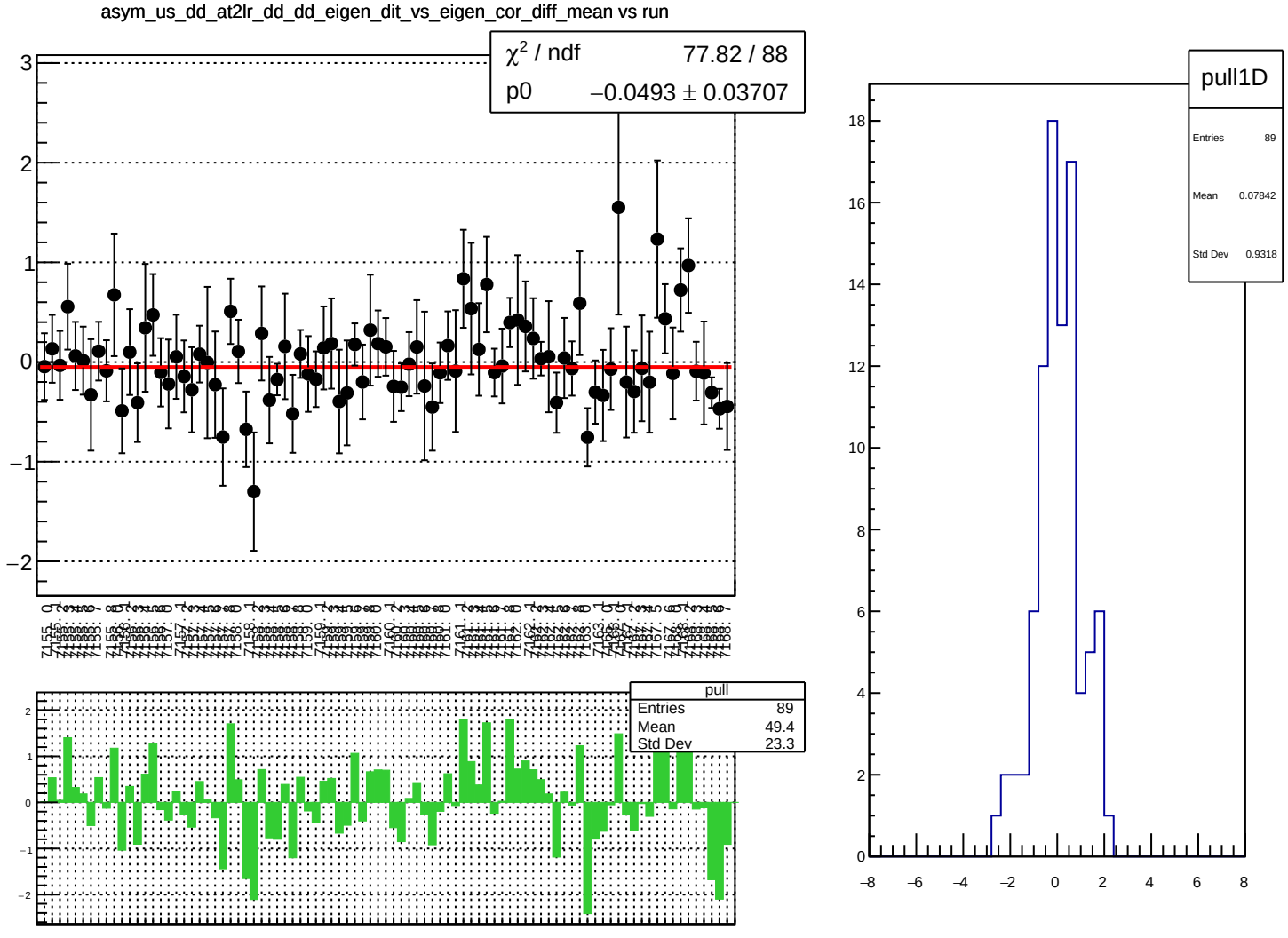

pull1D
Entries 89
Mean 0.01116
Std Dev 0.8661
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

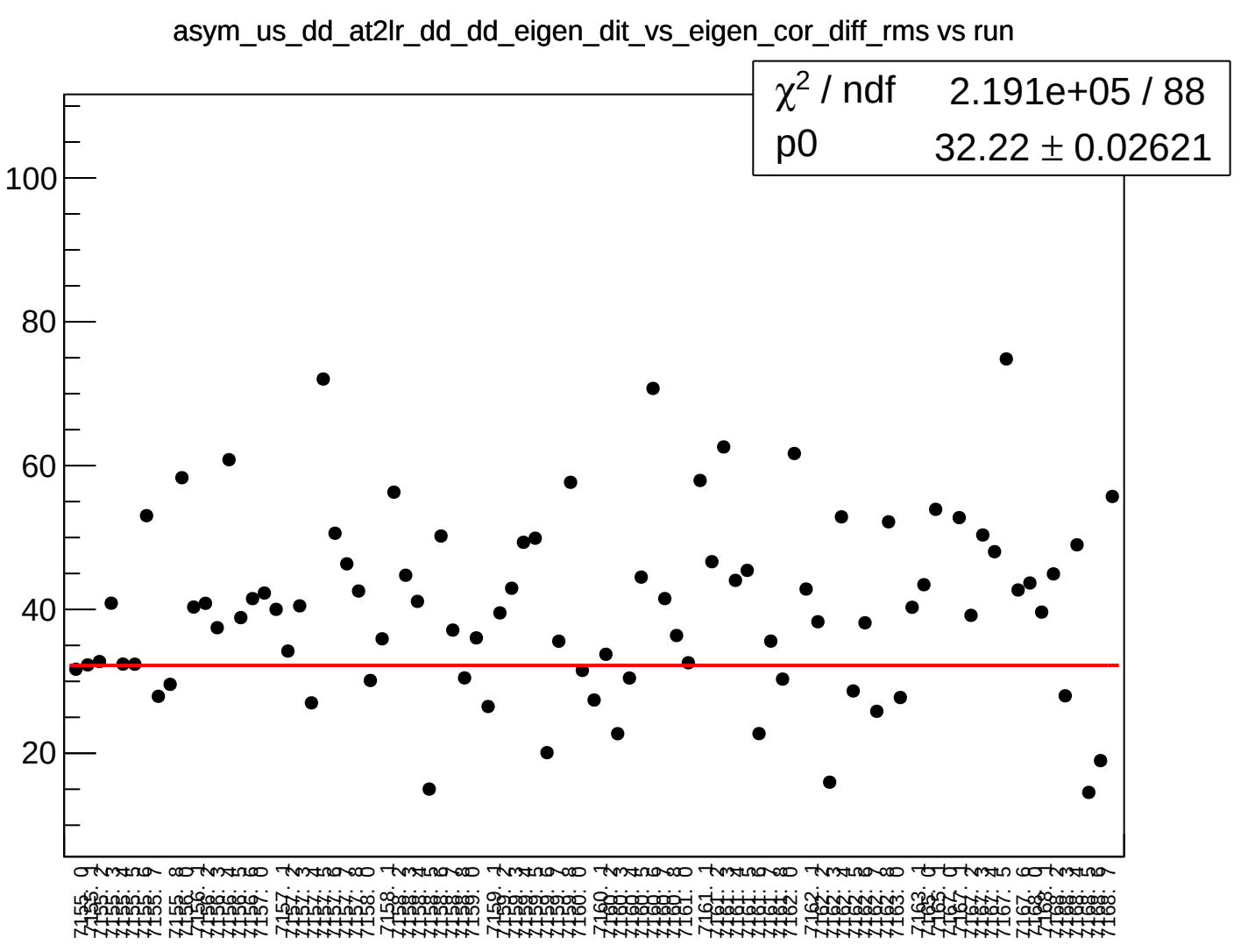

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.791e+04 / 88
p0 0.007134 ± 5.452e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

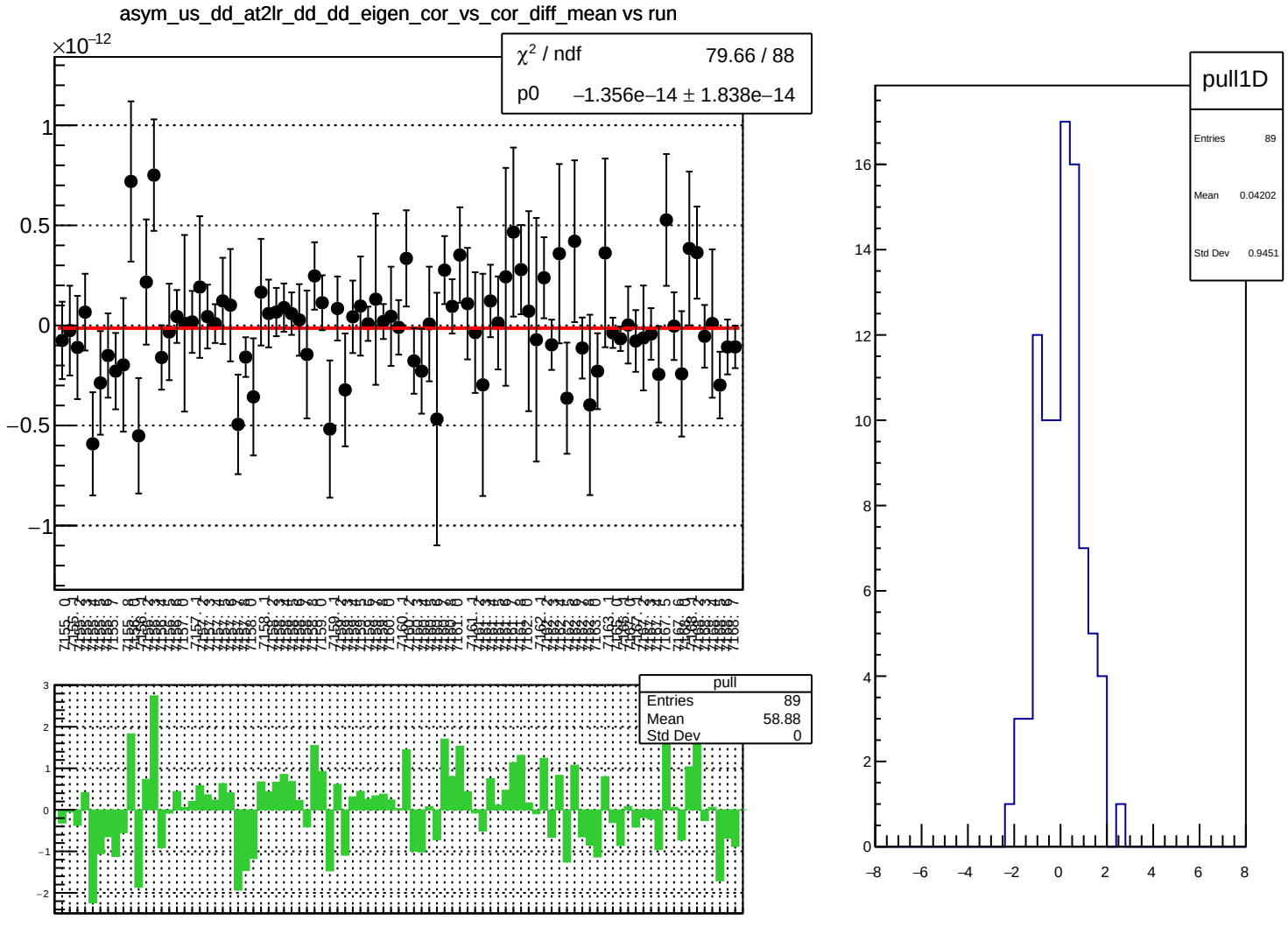

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 77.82 / 88
p0 −0.0493 ± 0.03707
pull
Entries 89
Mean 49.4
Std Dev 23.3

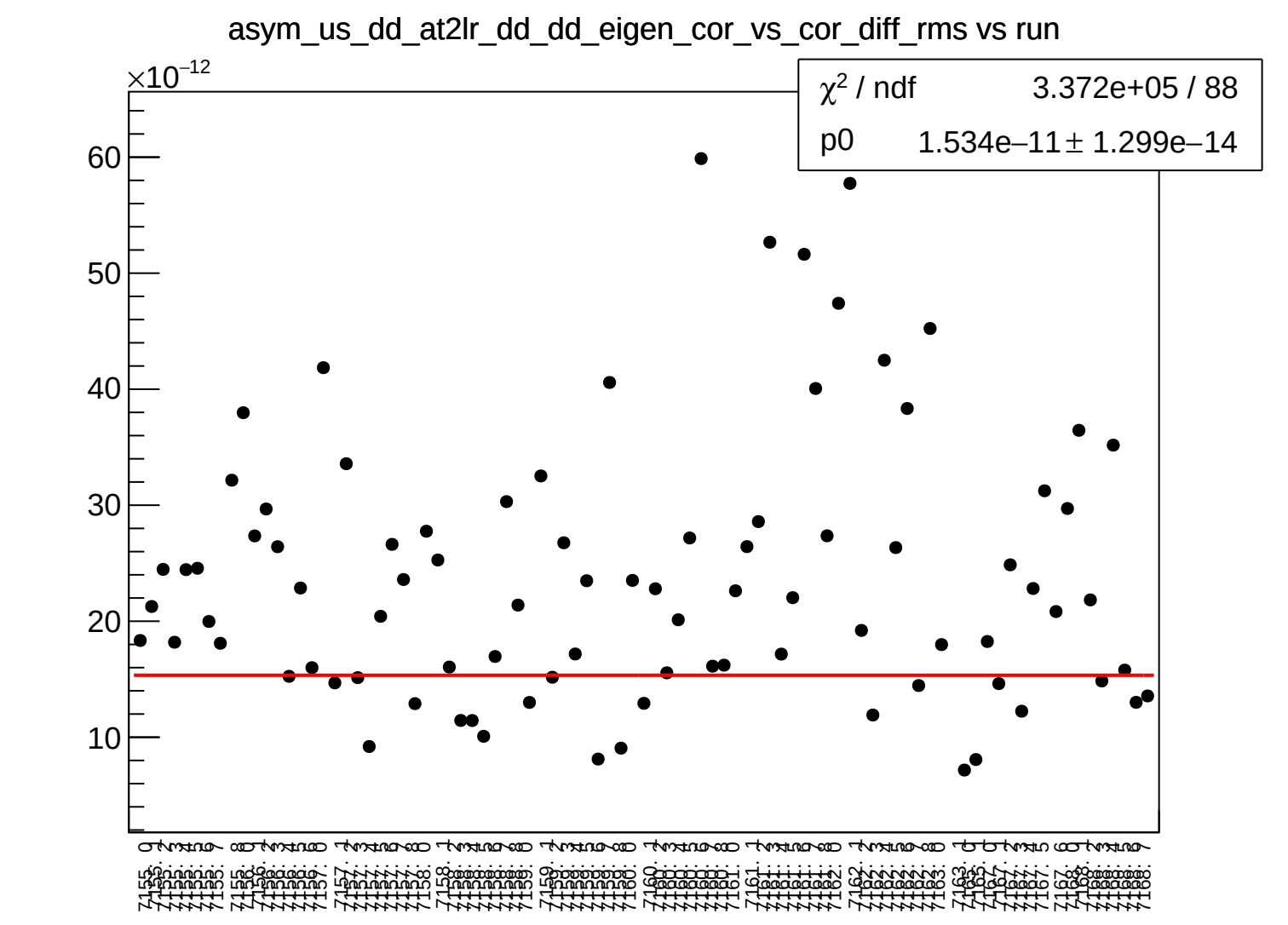

pull1D
Entries 89
Mean 0.07842
Std Dev 0.9318

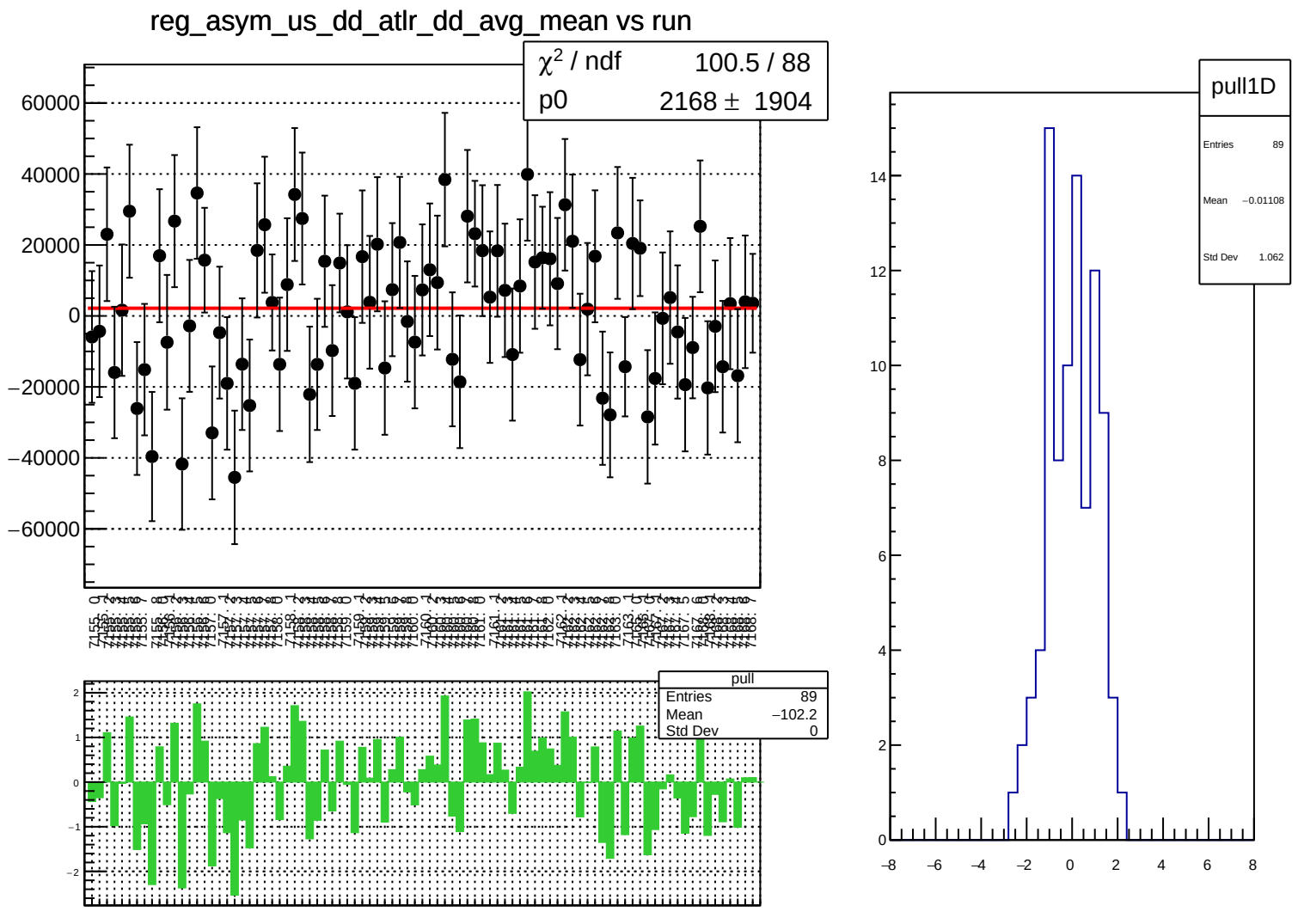

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.191e+05 / 88
p0 32.22 ± 0.02621
100
80
60
40
20

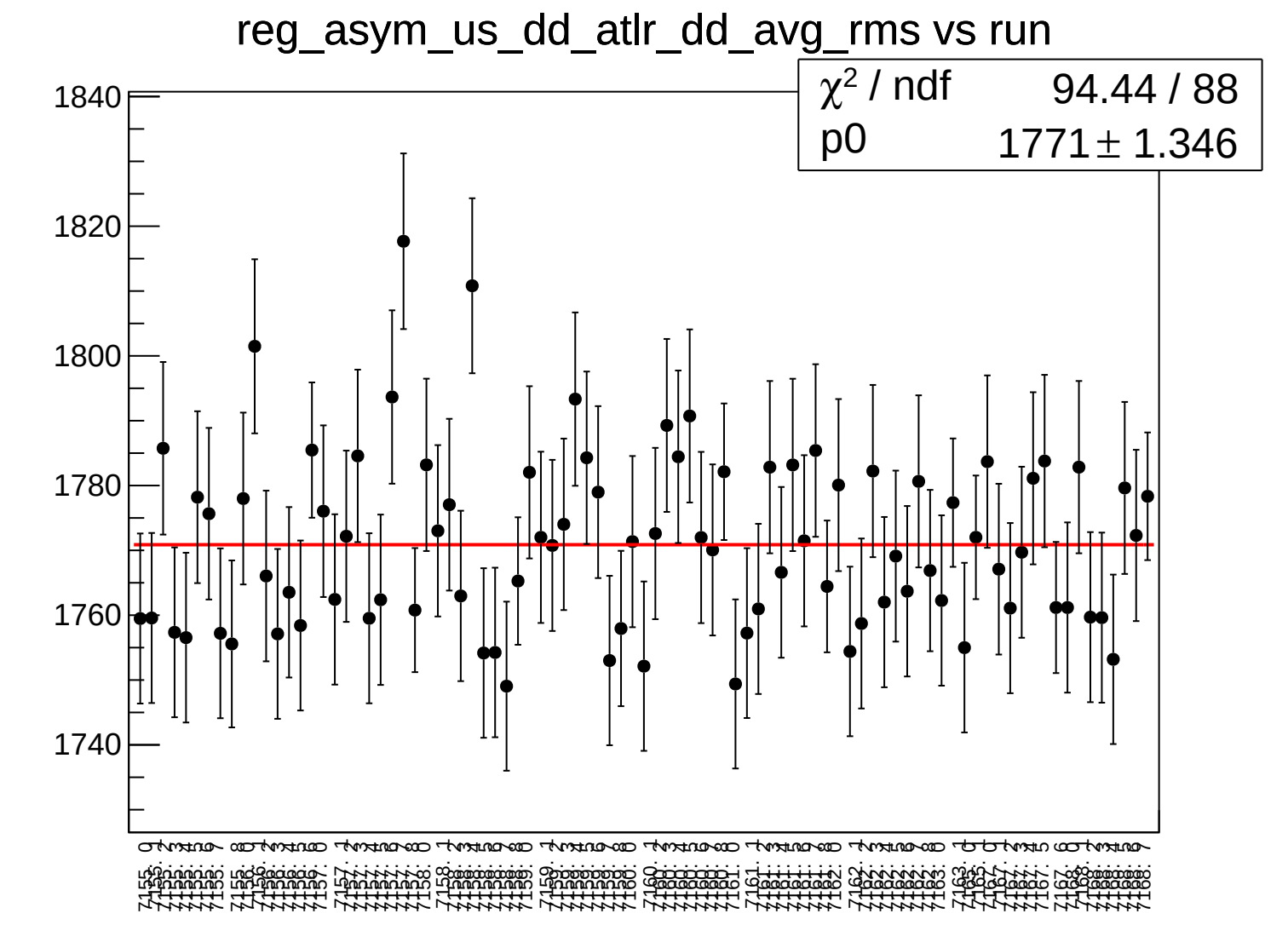

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 77.82 / 88
p0 −0.0493 ± 0.03707
pull
Entries 89
Mean 49.4
Std Dev 23.3
pull1D
Entries 89
Mean 0.07842
Std Dev 0.9318

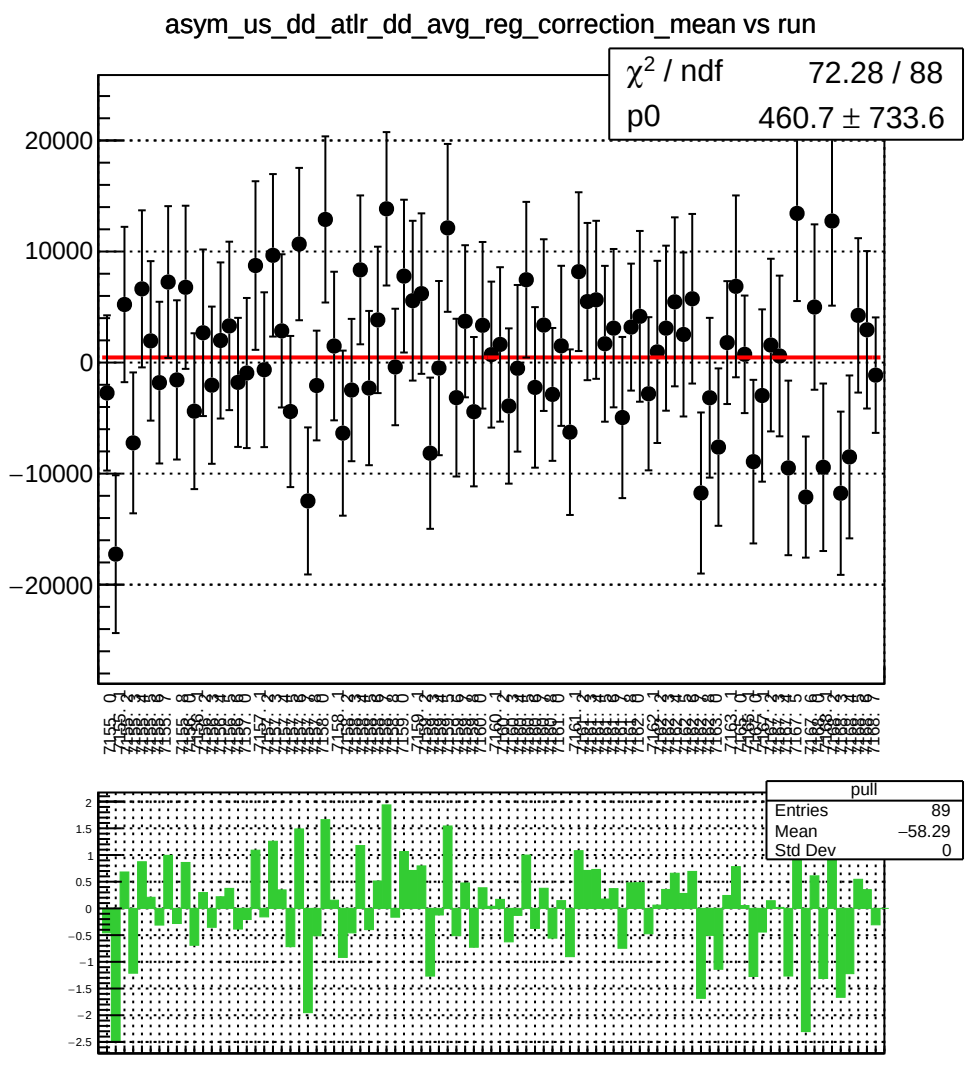

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.191e+05 / 88
p0 32.22 ± 0.02621
100
80
60
40
20

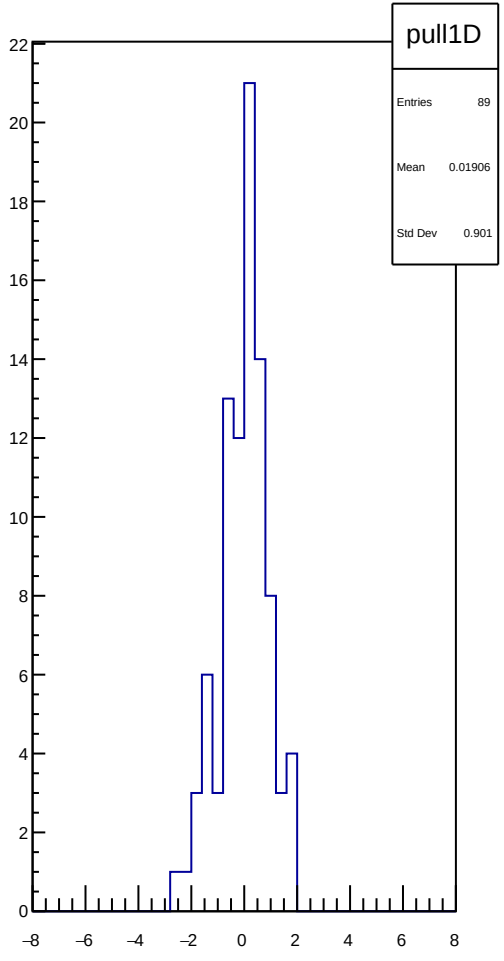

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.66 / 88
p0 −1.356e−14 ± 1.838e−14
pull
Entries 89
Mean 58.88
Std Dev 0
pull1D
Entries 89
Mean 0.04202
Std Dev 0.9451

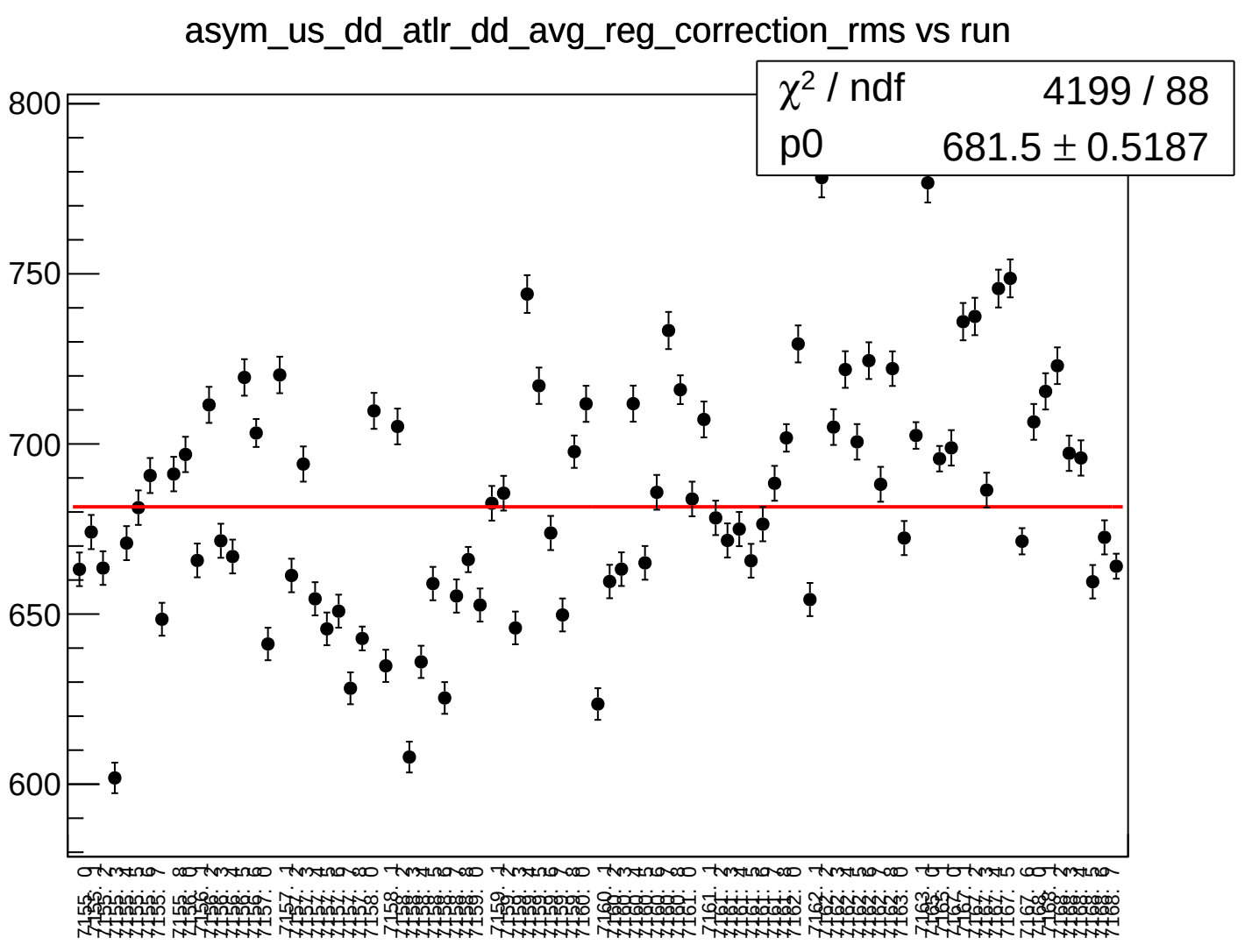

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.372e+05 / 88
p0 1.534e−11 ± 1.299e−14
60
50
40
30
20
10

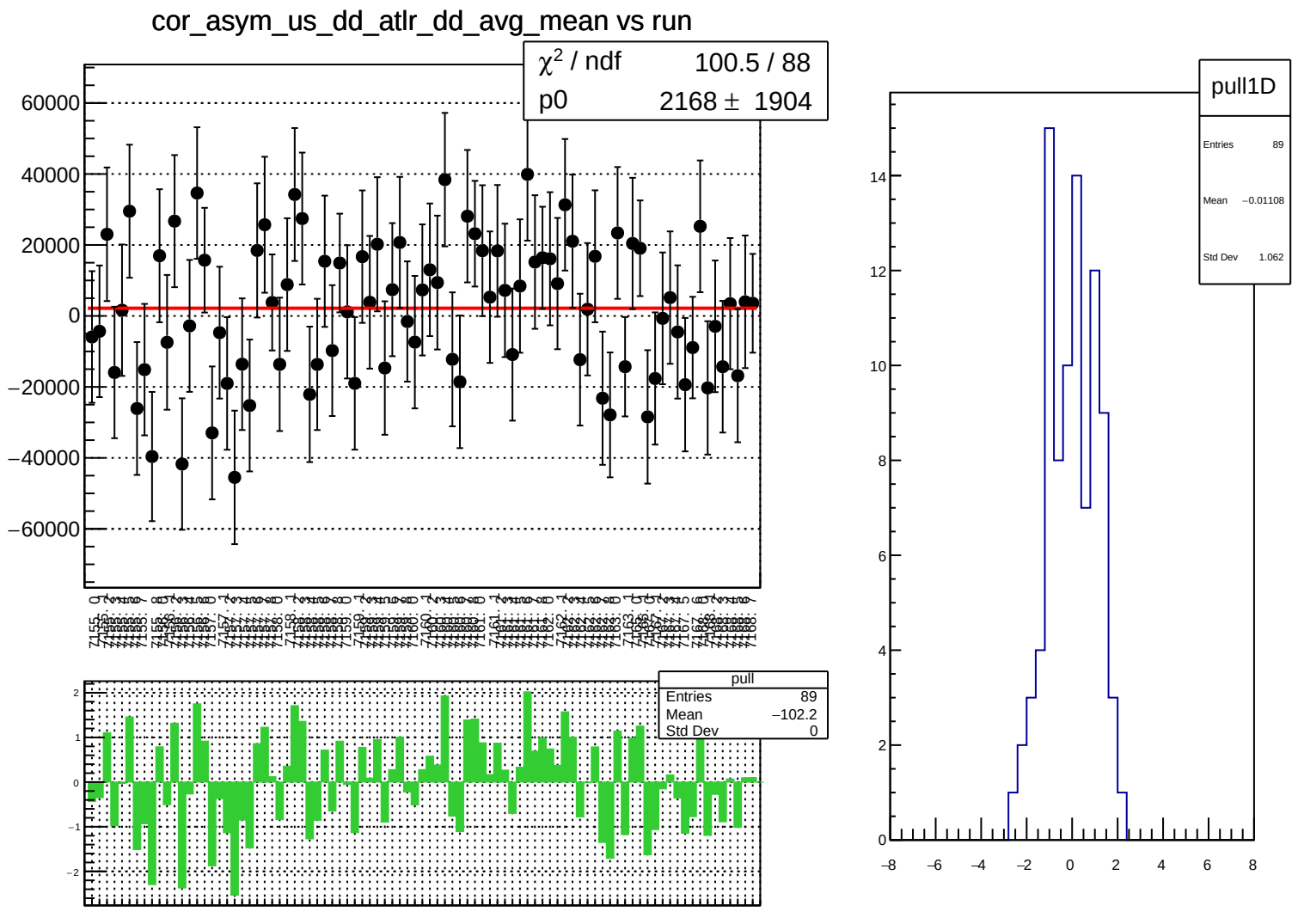

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.5 / 88
p0 2168 ± 1904
pull
Entries 89
Mean −102.2
Std Dev 0
pull1D
Entries 89
Mean −0.01108
Std Dev 1.062

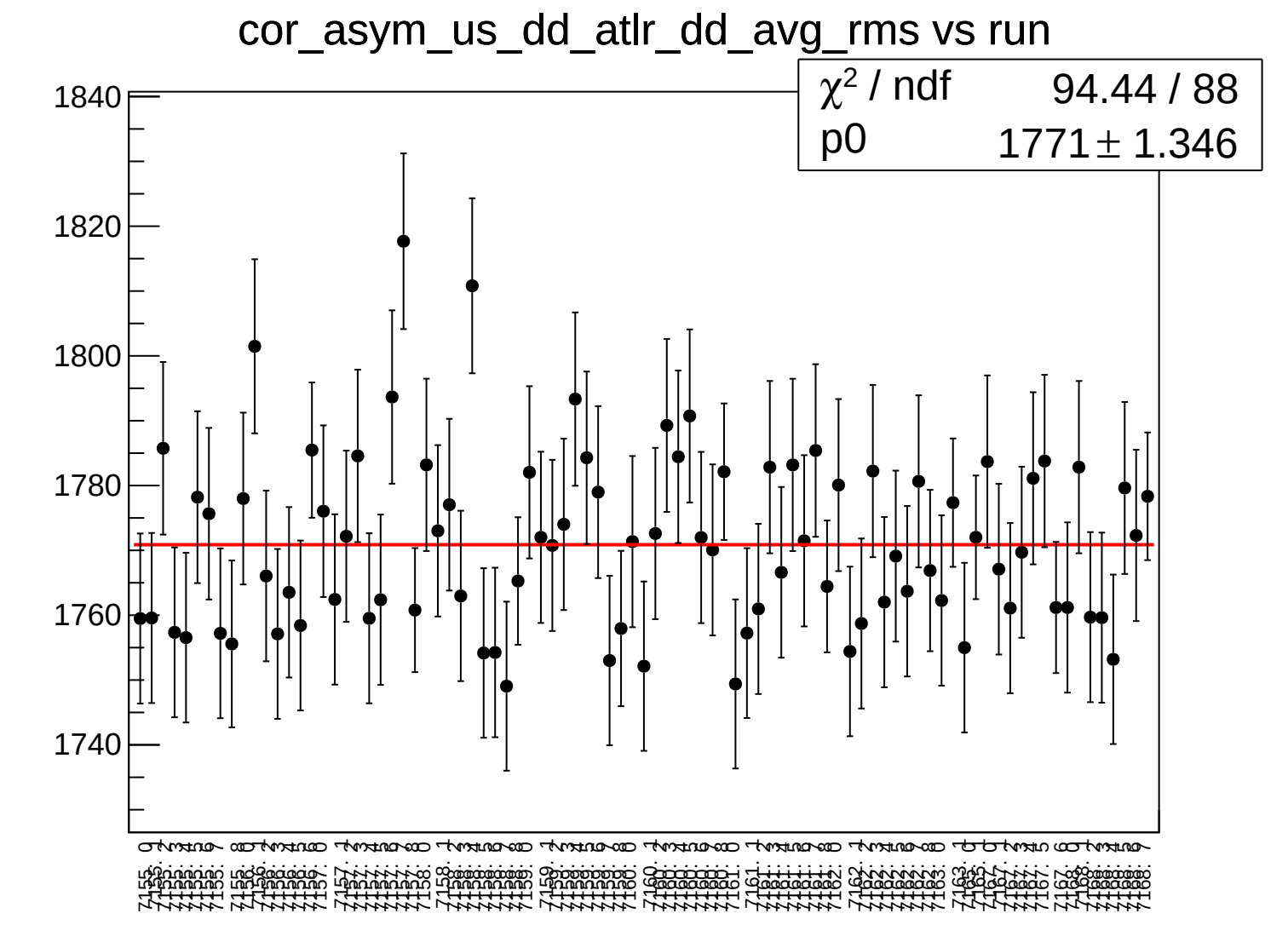

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 94.44 / 88
p0 1771 ± 1.346
1840
1820
1800
1780
1760
1740

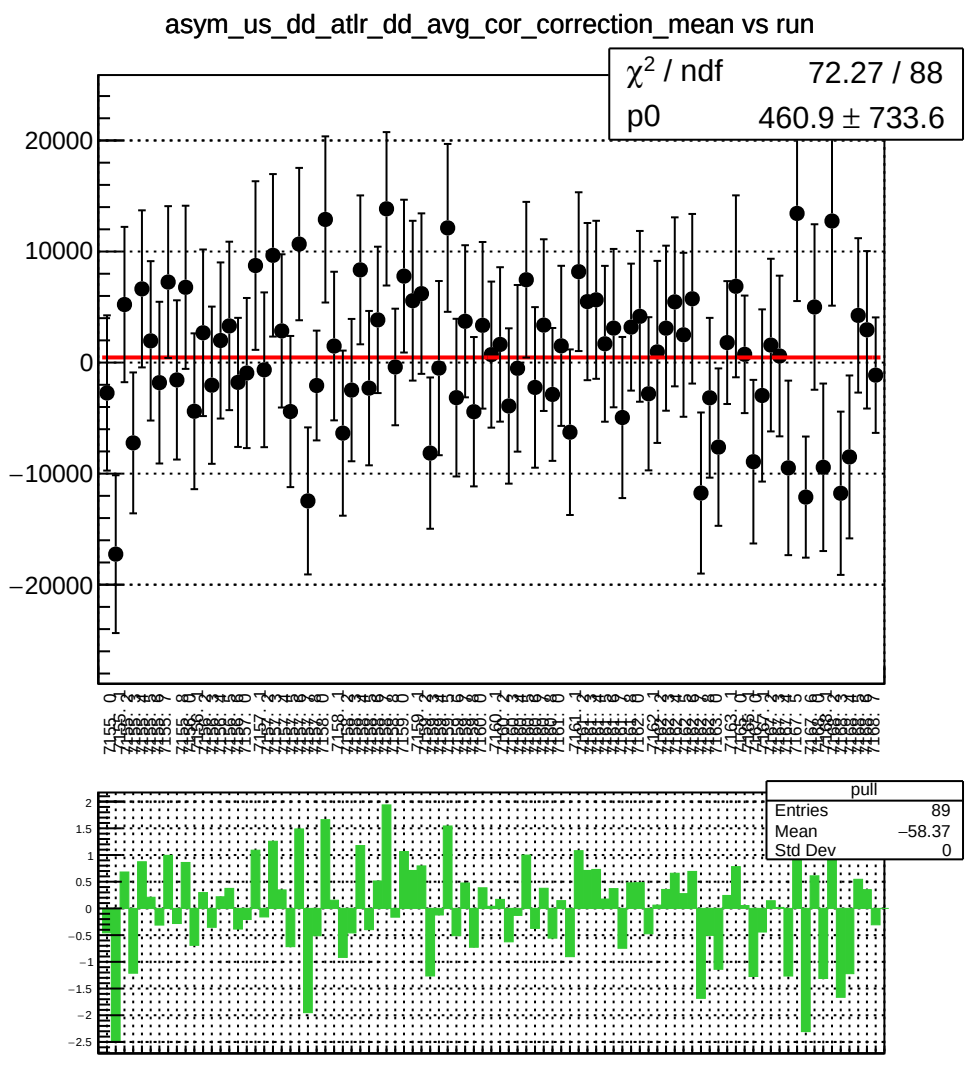

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
χ² / ndf 72.28 / 88
p0 460.7 ± 733.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −58.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

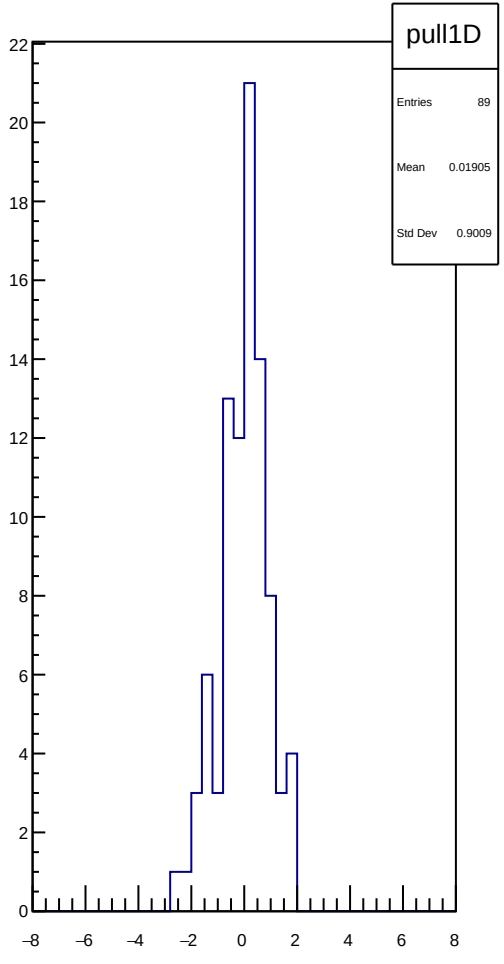

pull1D
Entries 89
Mean 0.01906
Std Dev 0.901
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

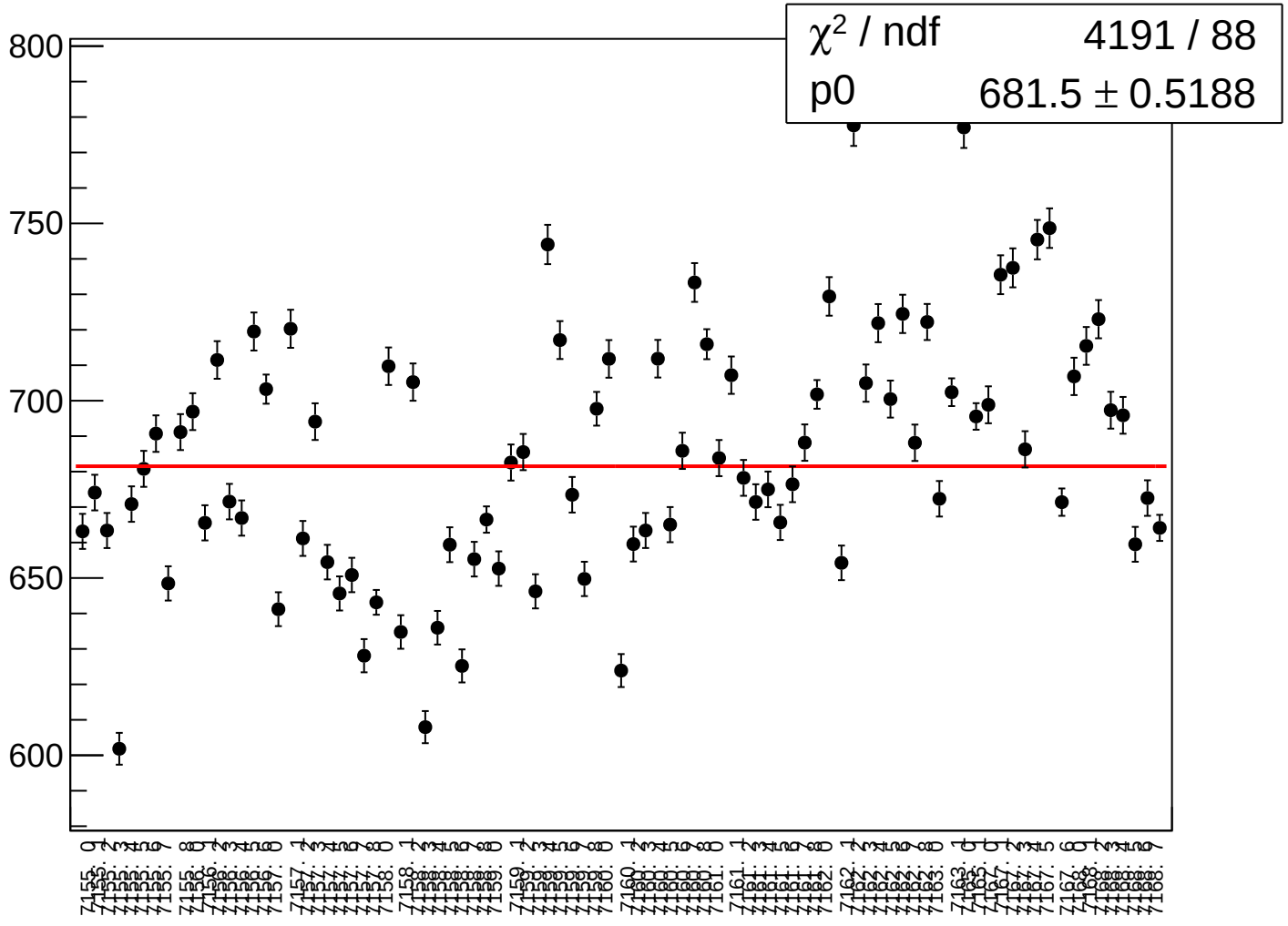

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 4199 / 88
p0 681.5 ± 0.5187
800
750
700
650
600

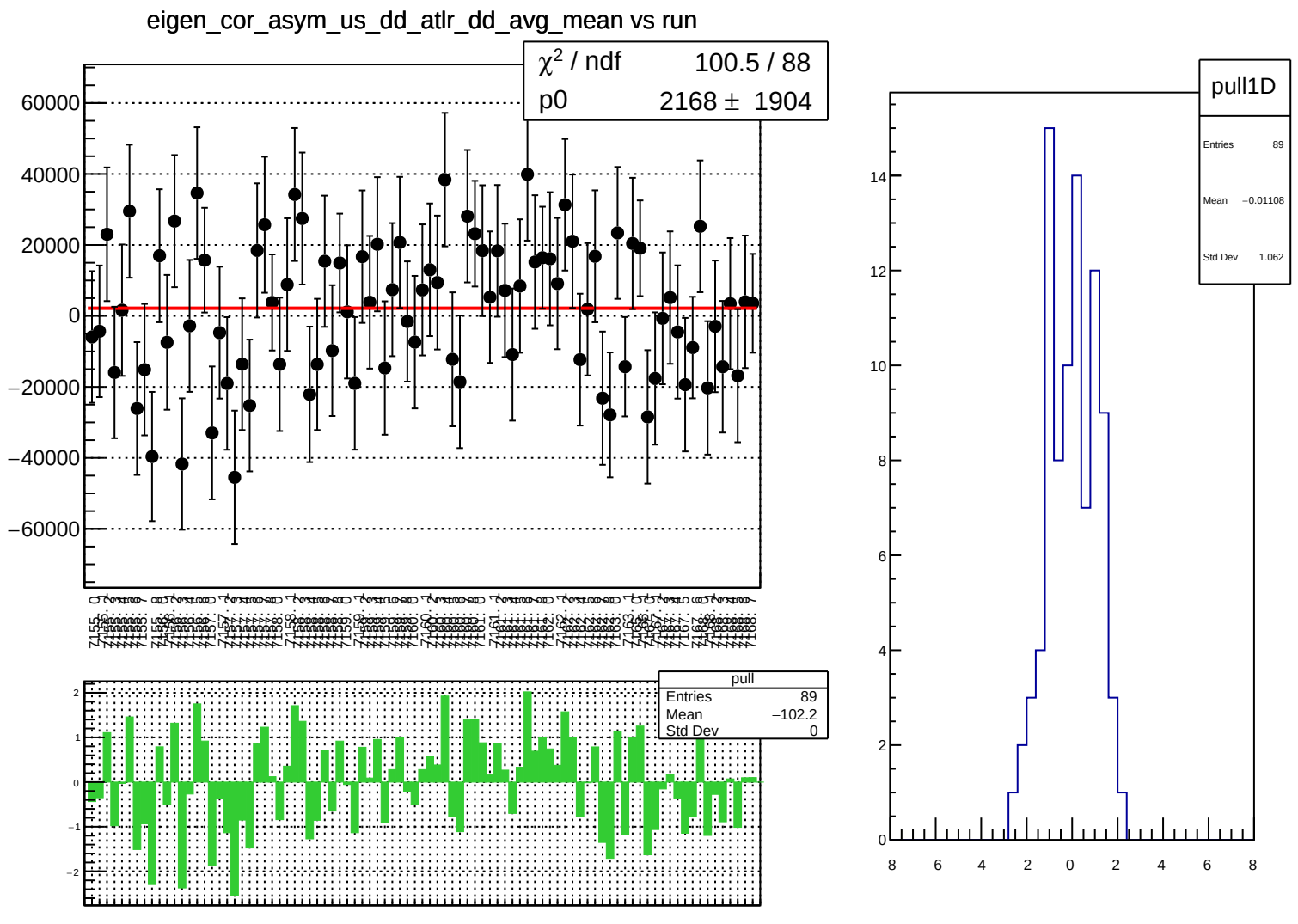

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.5 / 88
p0 2168 ± 1904
pull
Entries 89
Mean −102.2
Std Dev 0
pull1D
Entries 89
Mean −0.01108
Std Dev 1.062

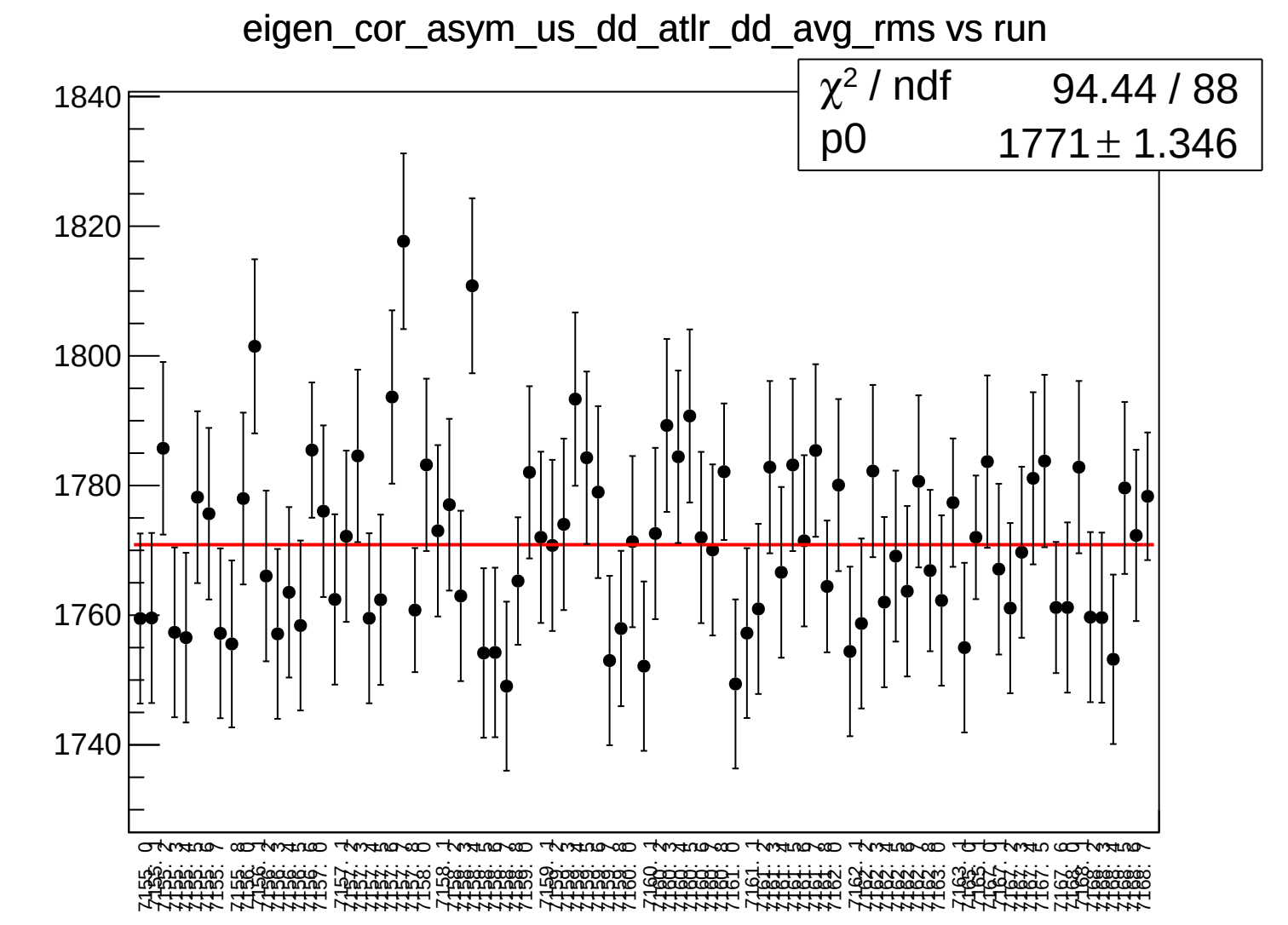

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 94.44 / 88
p0 1771 ± 1.346
1840
1820
1800
1780
1760
1740

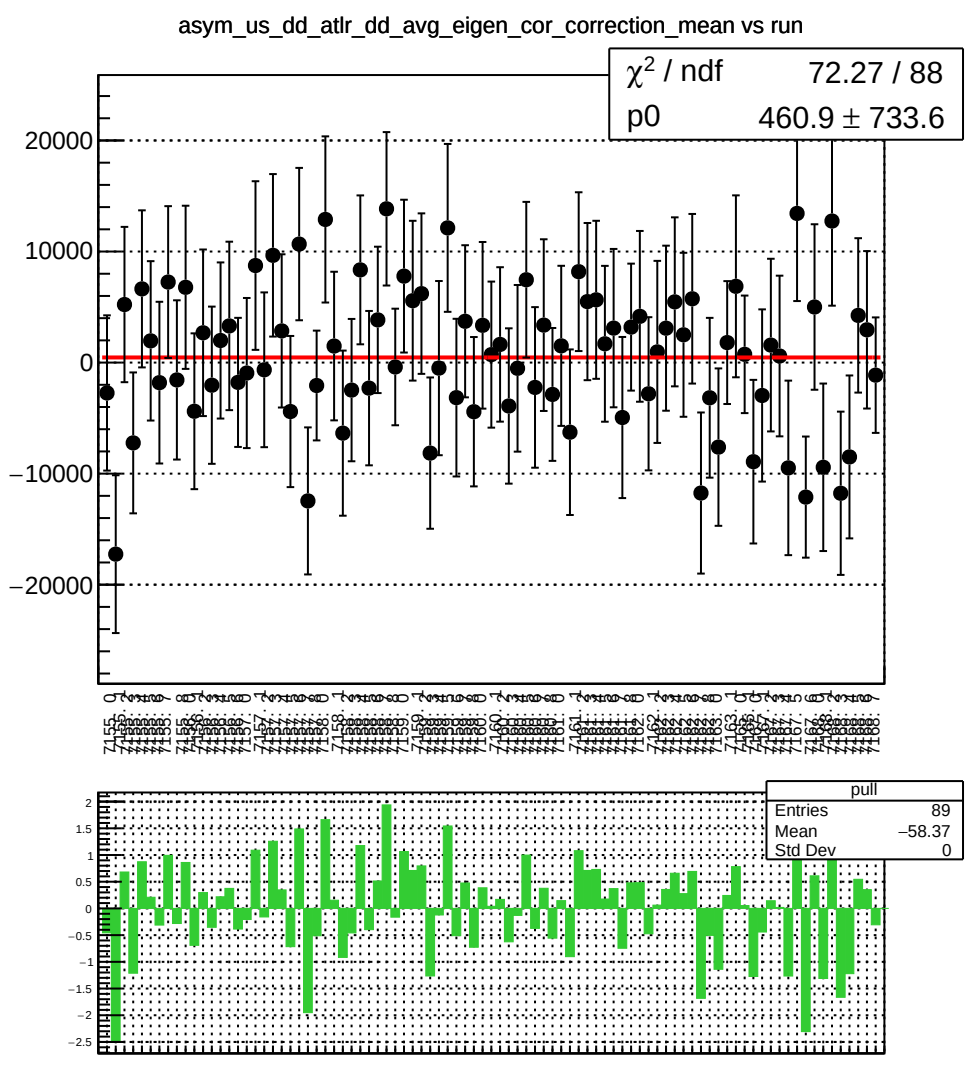

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
χ² / ndf 72.27 / 88
p0 460.9 ± 733.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −58.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

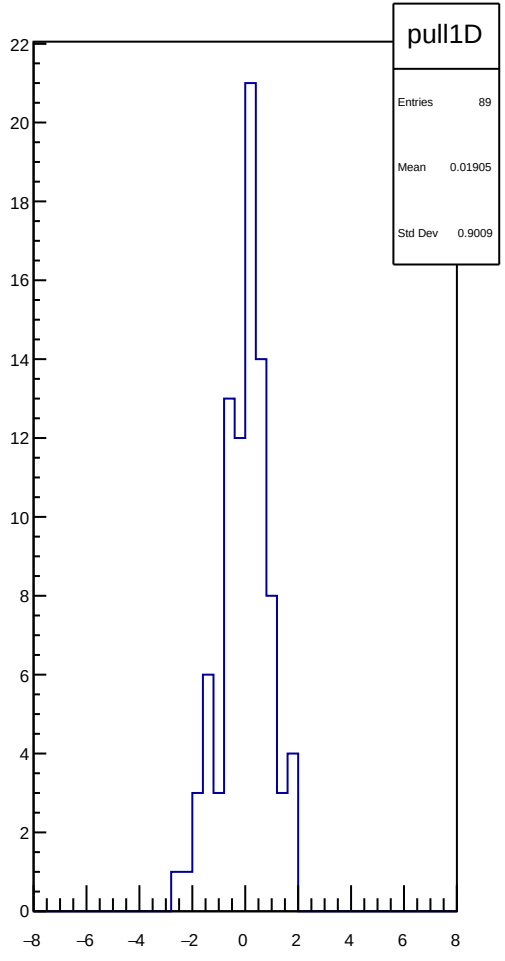

pull1D
Entries 89
Mean 0.01905
Std Dev 0.9009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

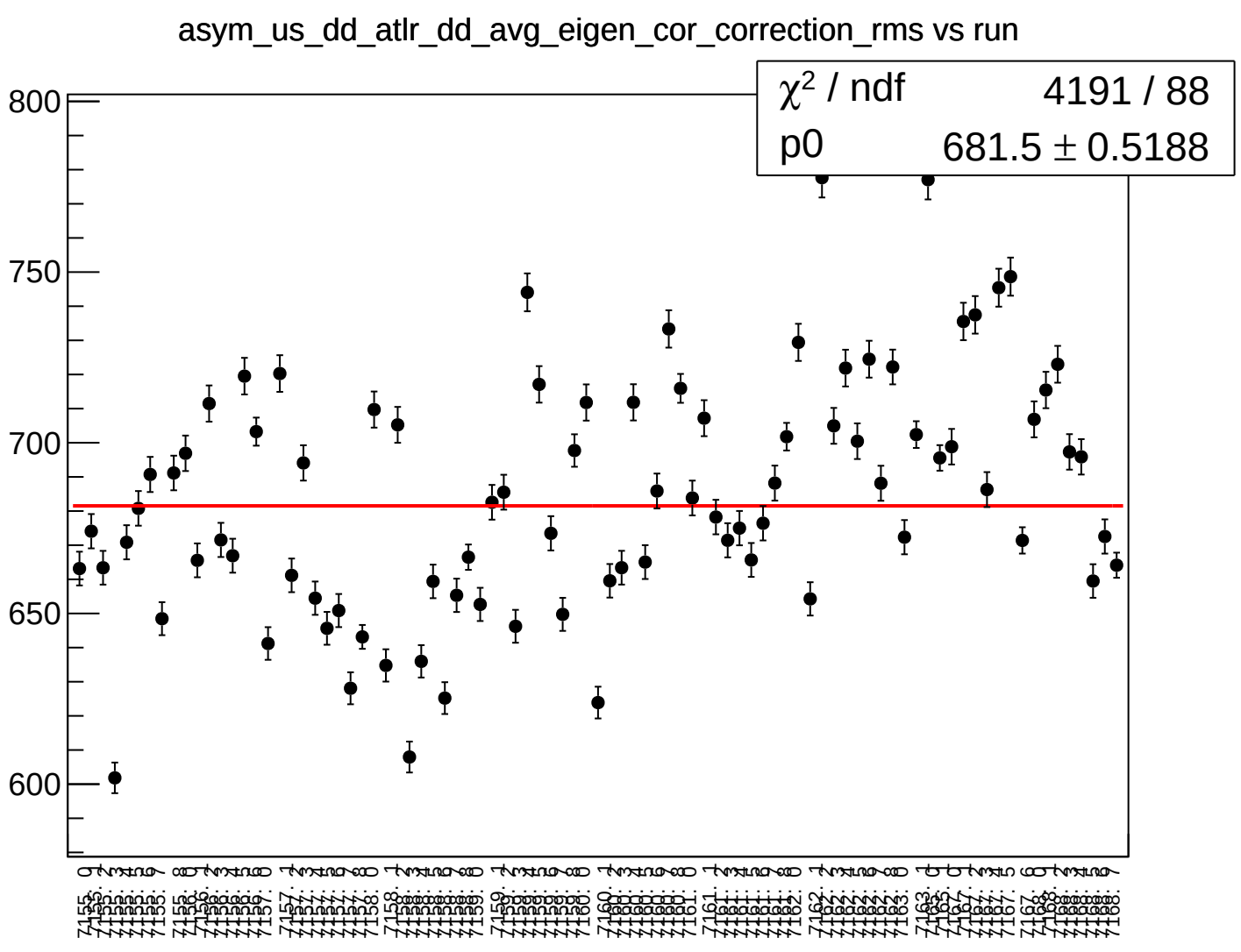

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 4191 / 88
p0 681.5 ± 0.5188
800
750
700
650
600

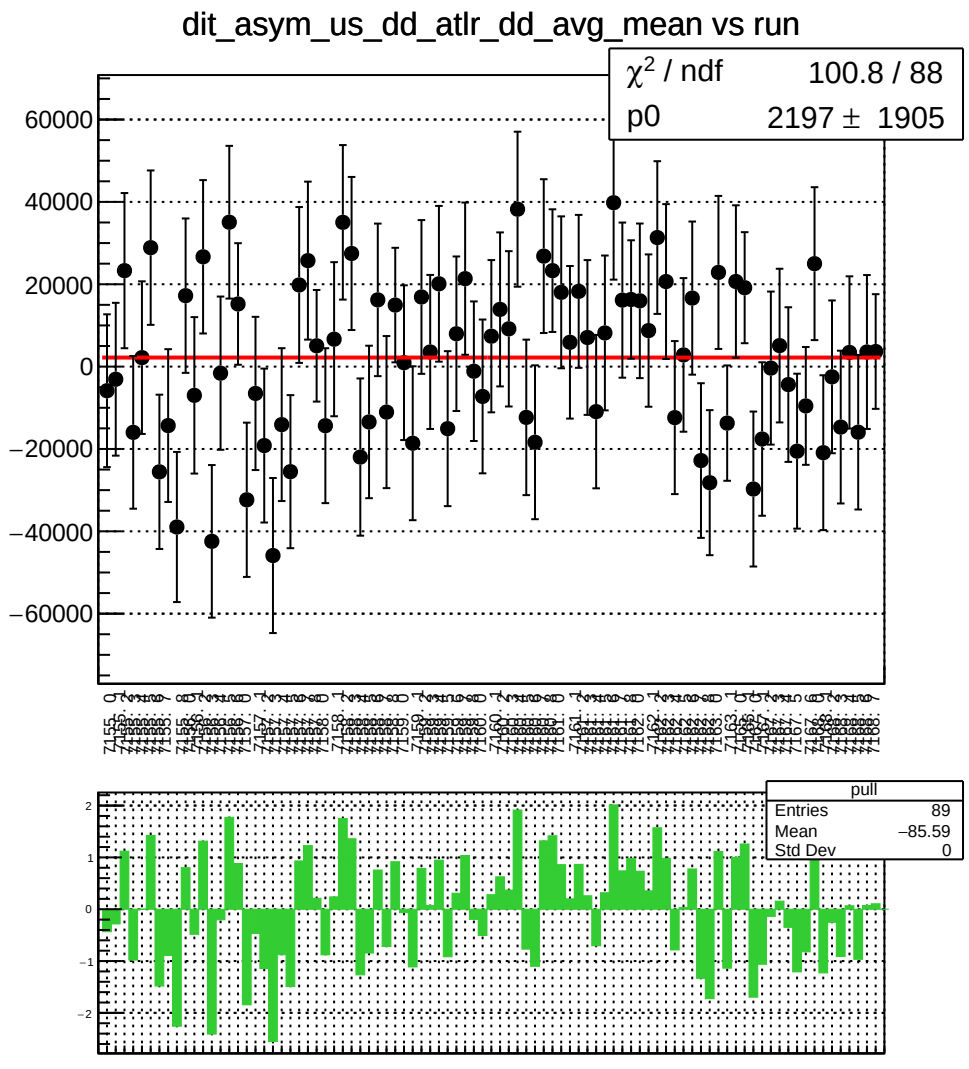

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.5 / 88
p0 2168 ± 1904
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −102.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01108
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

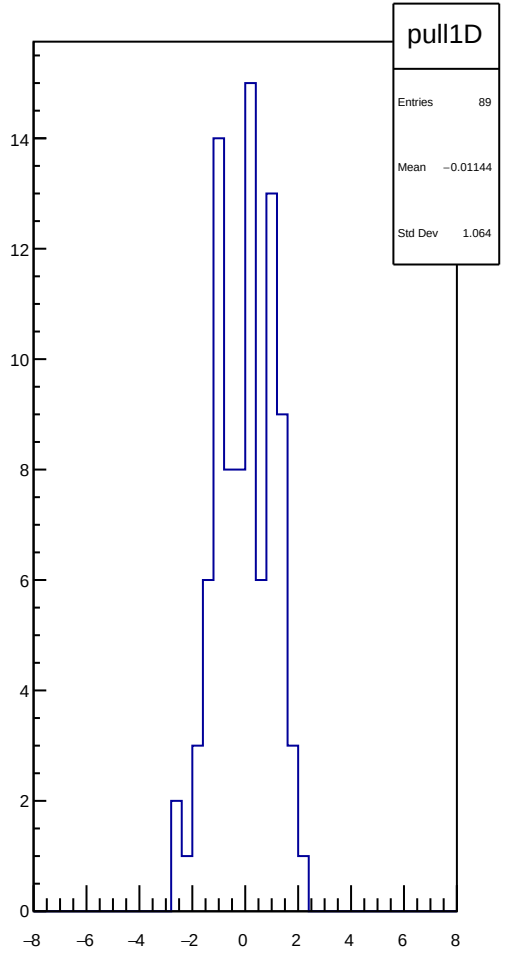

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 94.44 / 88
p0 1771 ± 1.346
1840
1820
1800
1780
1760
1740

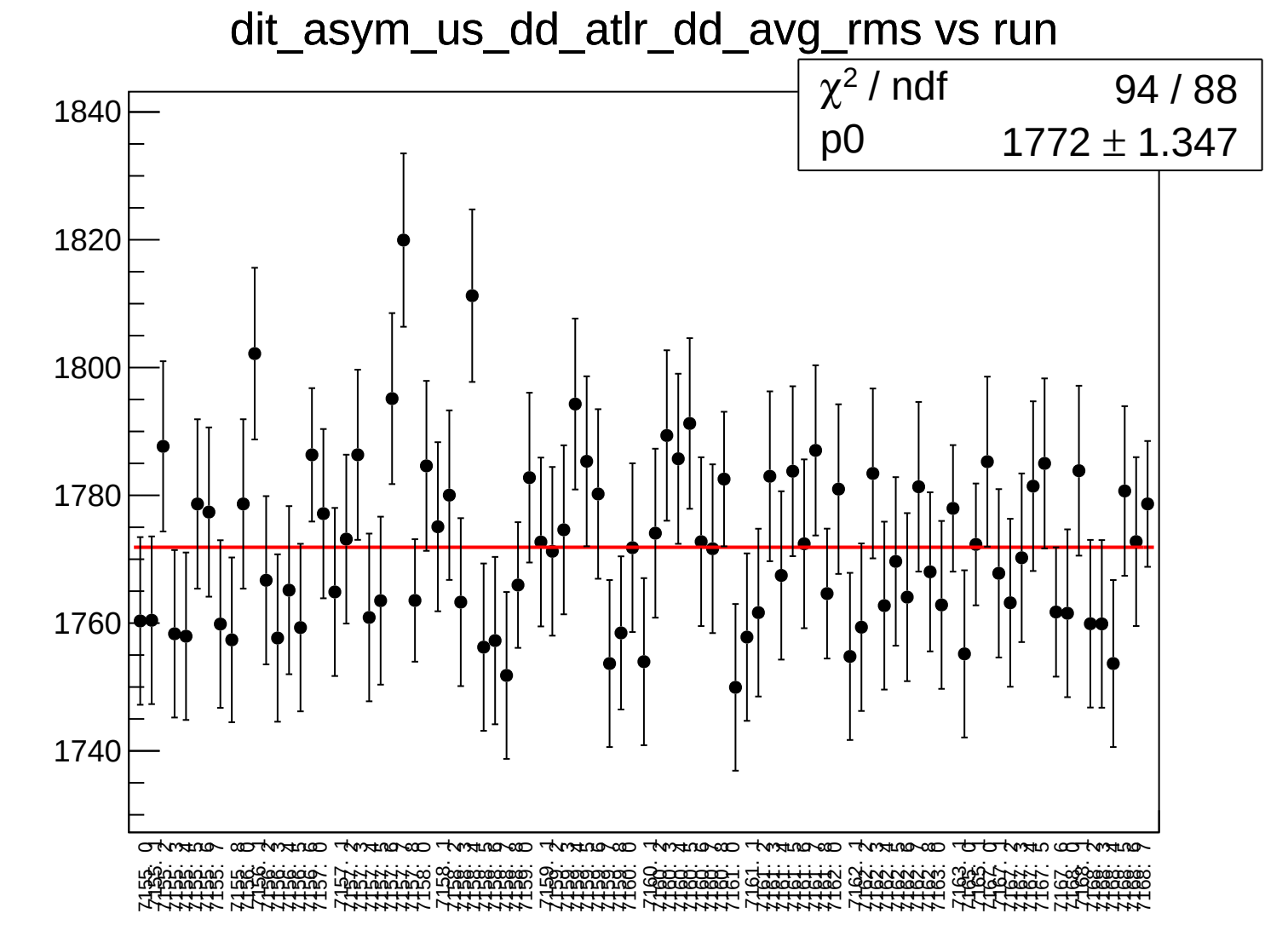

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.27 / 88
p0 460.9 ± 733.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −58.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

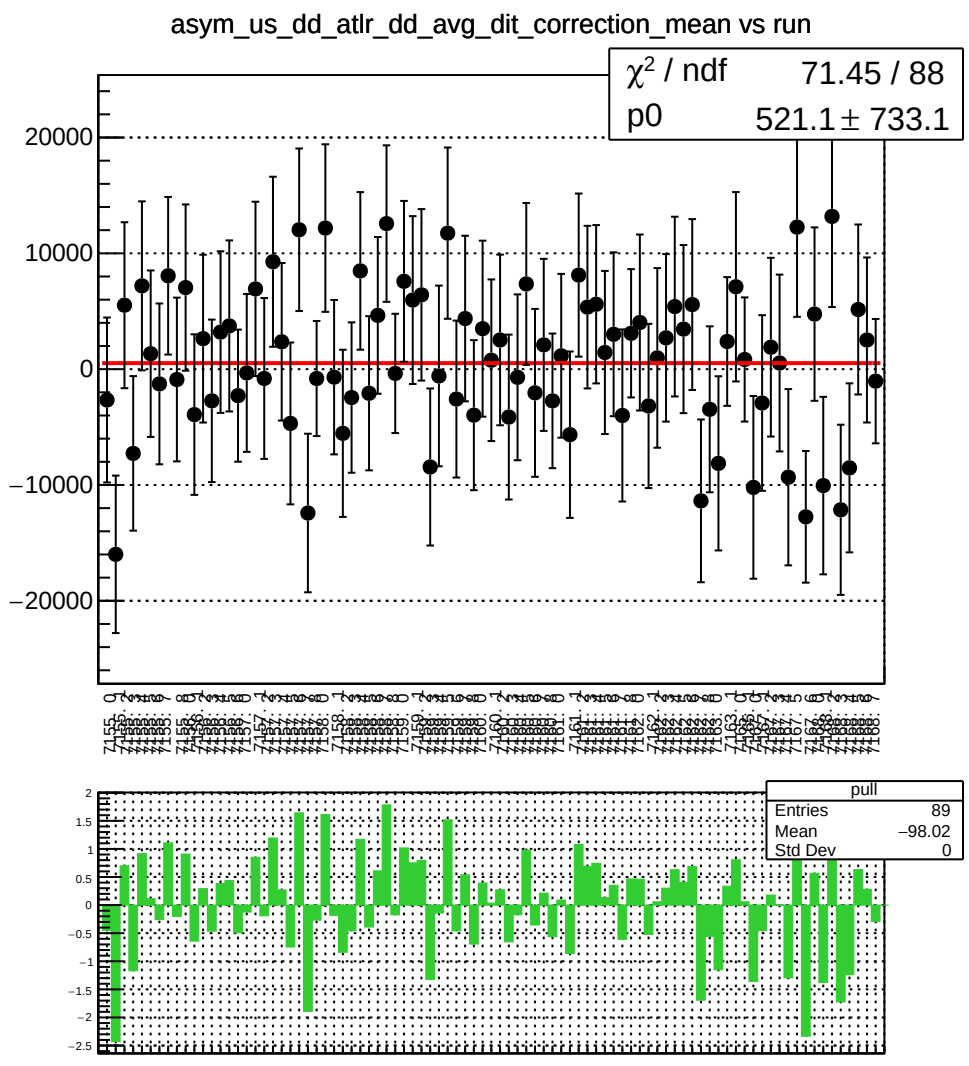

pull1D
Entries 89
Mean 0.01905
Std Dev 0.9009
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

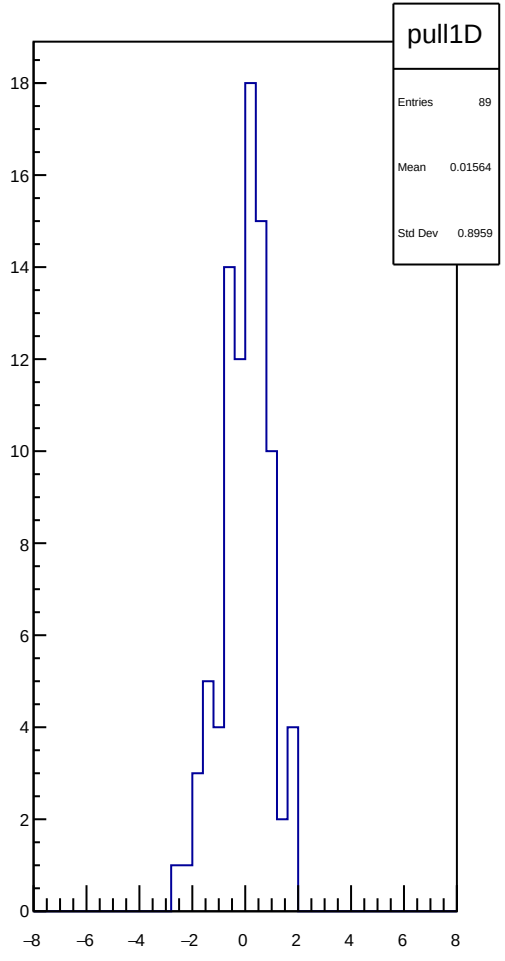

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 4191 / 88
p0 681.5 ± 0.5188
800
750
700
650
600

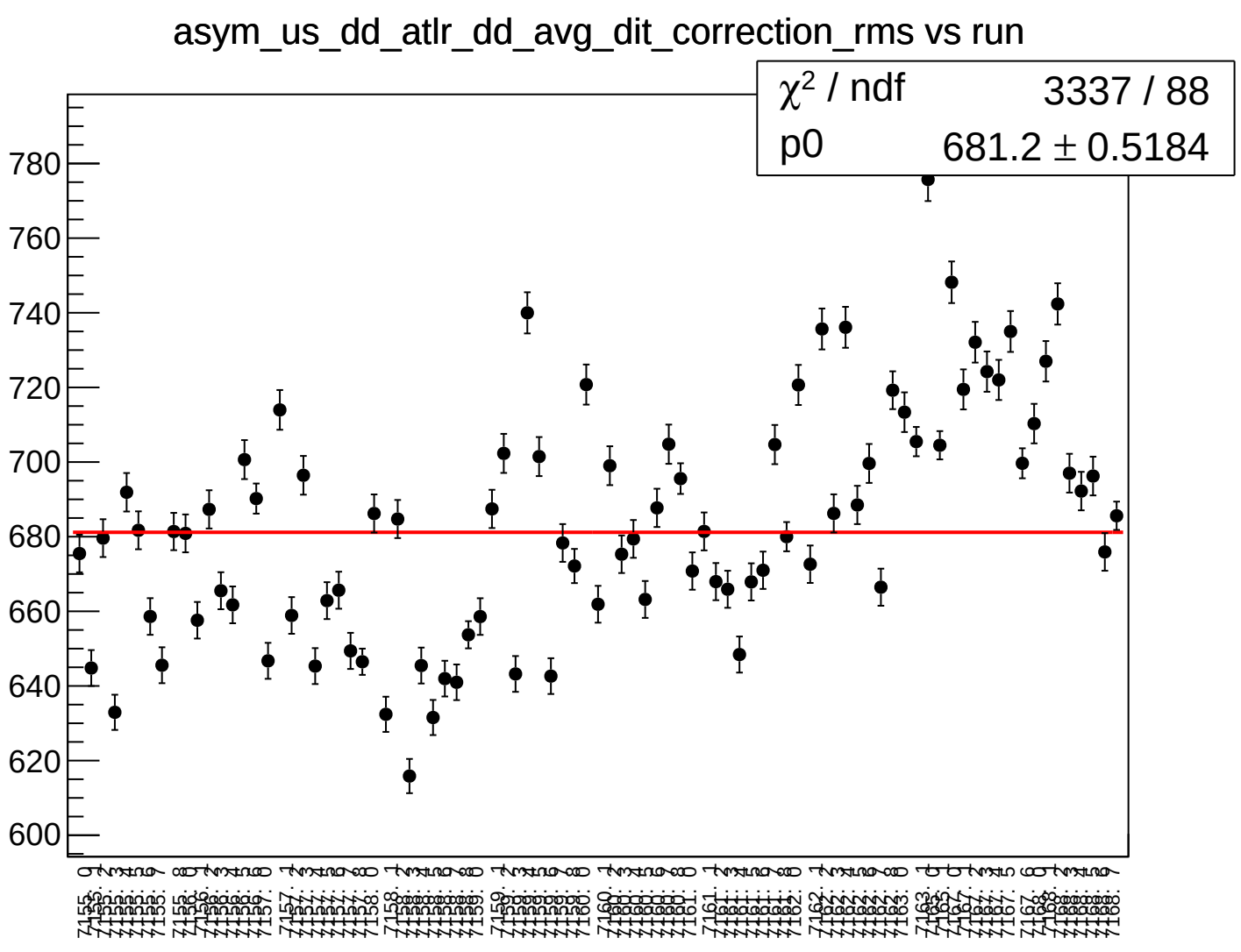

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 100.8 / 88
p0 2197 ± 1905
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −85.59
Std Dev 0
2
1
0
−1
−2

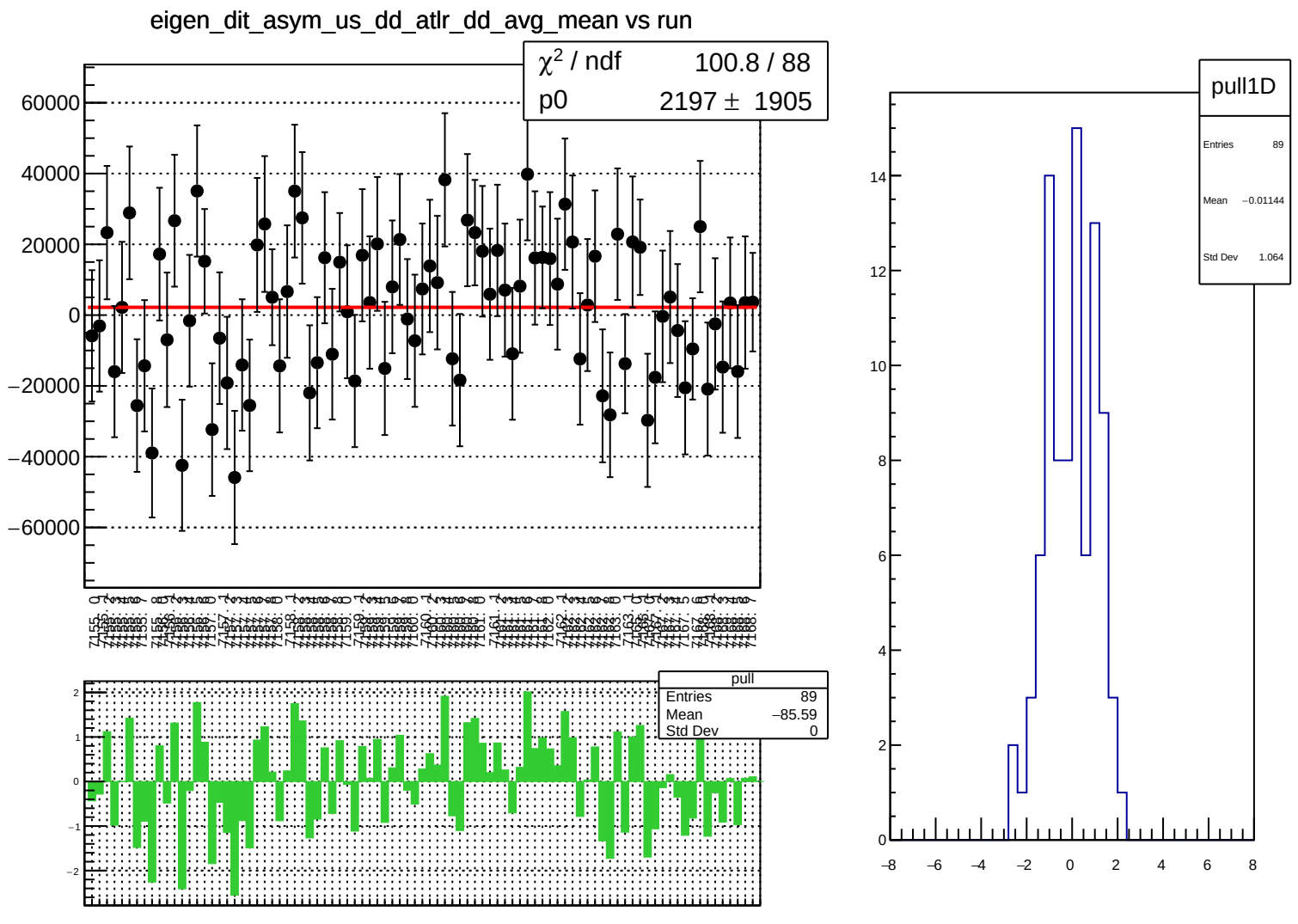

pull1D
Entries 89
Mean −0.01144
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

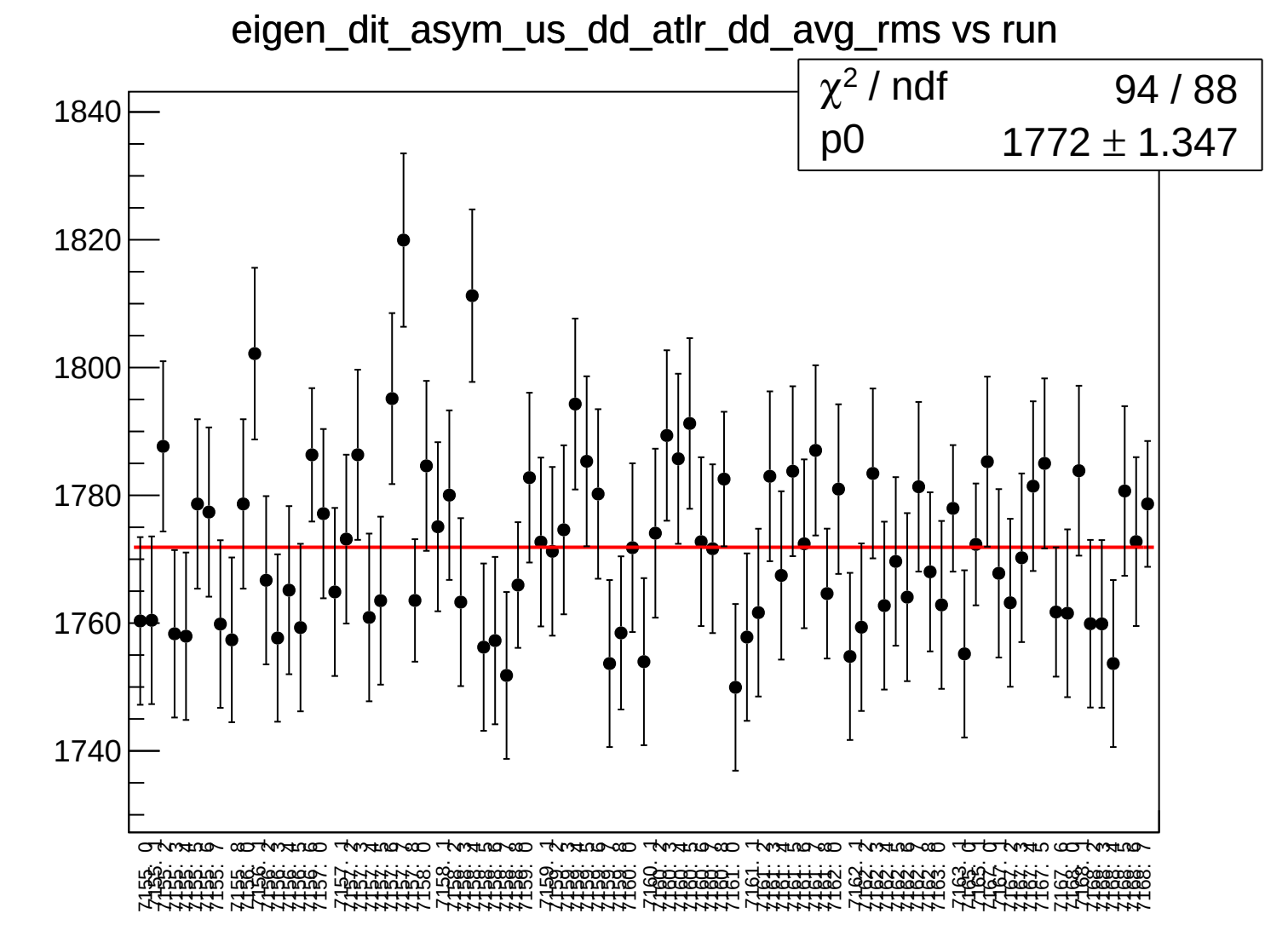

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 94 / 88
p0 1772 ± 1.347
1840
1820
1800
1780
1760
1740

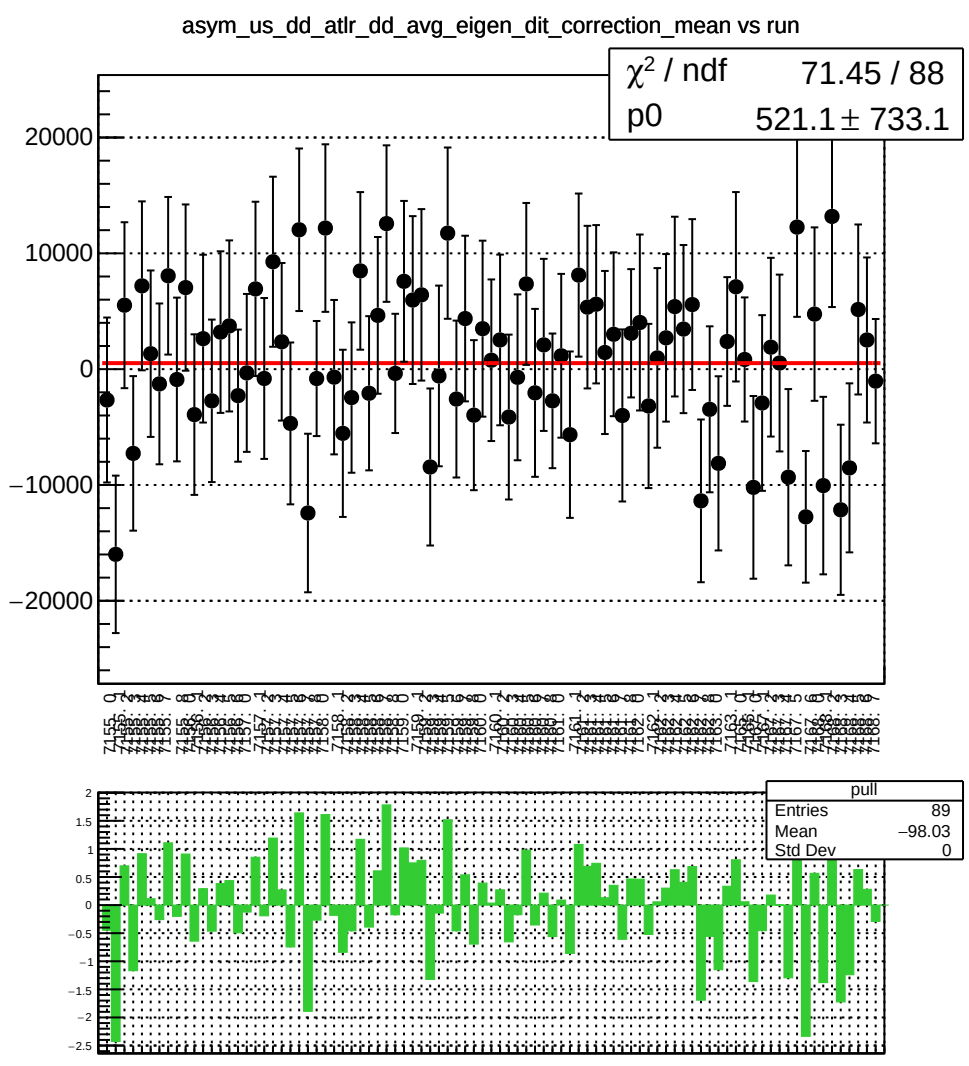

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
χ² / ndf 71.45 / 88
p0 521.1 ± 733.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −98.02
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

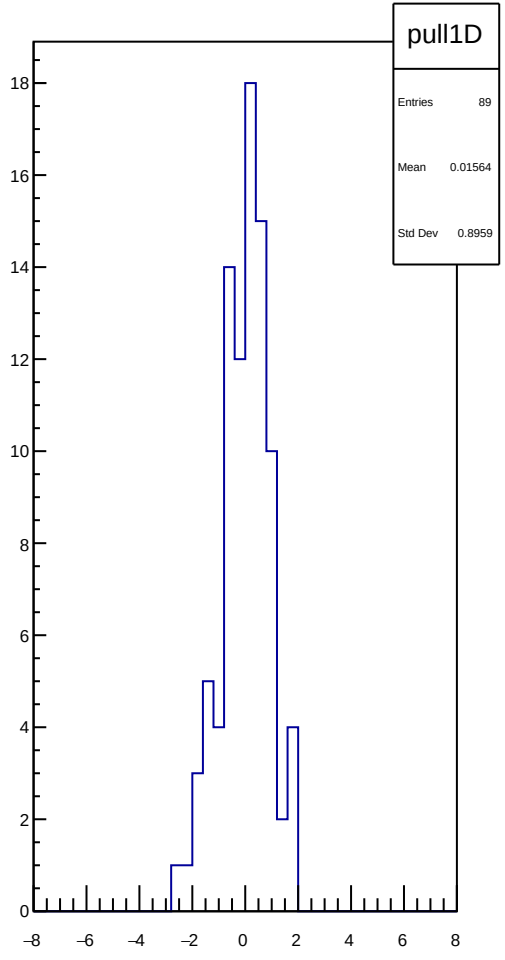

pull1D
Entries 89
Mean 0.01564
Std Dev 0.8959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

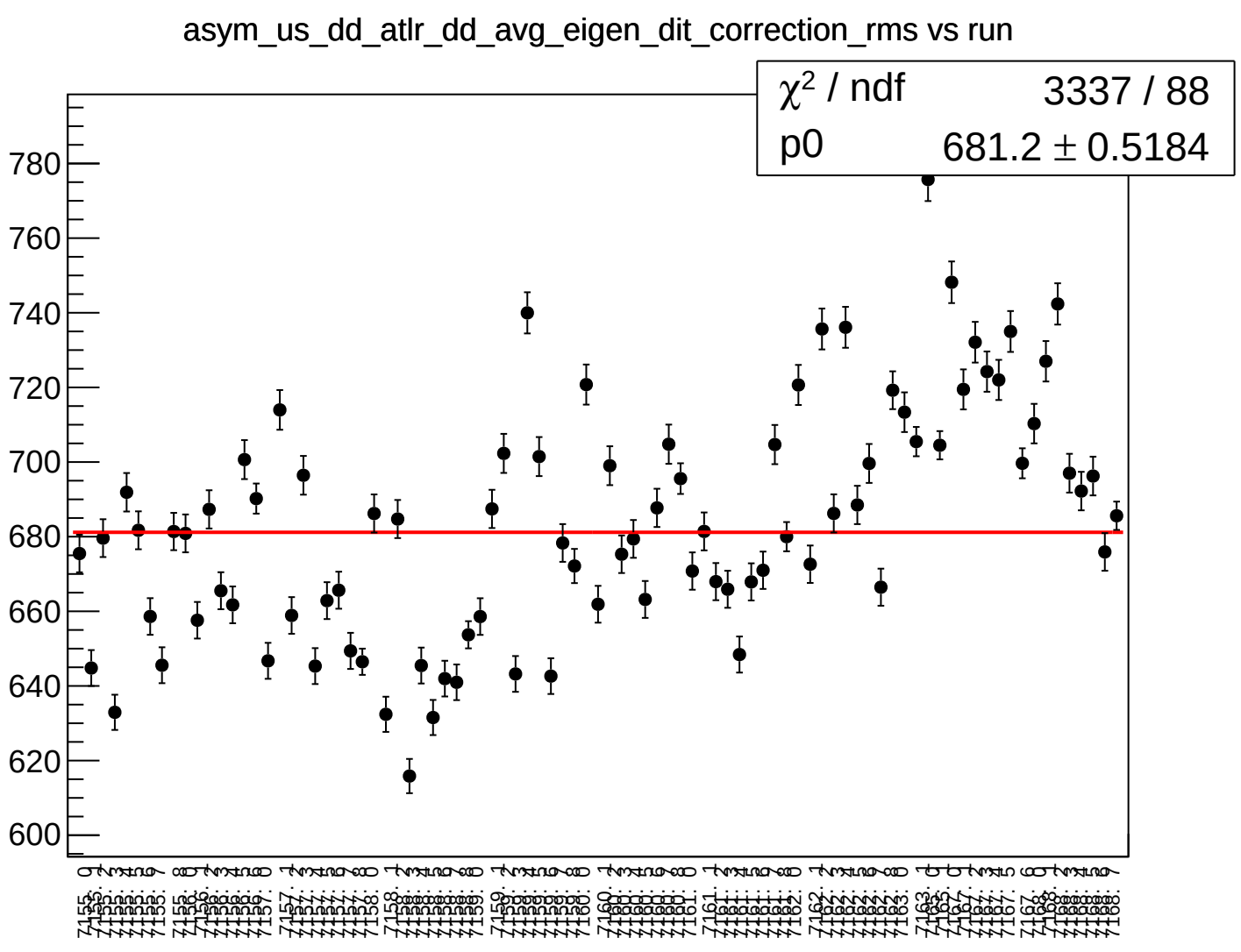

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 3337 / 88
p0 681.2 ± 0.5184
780
760
740
720
700
680
660
640
620
600

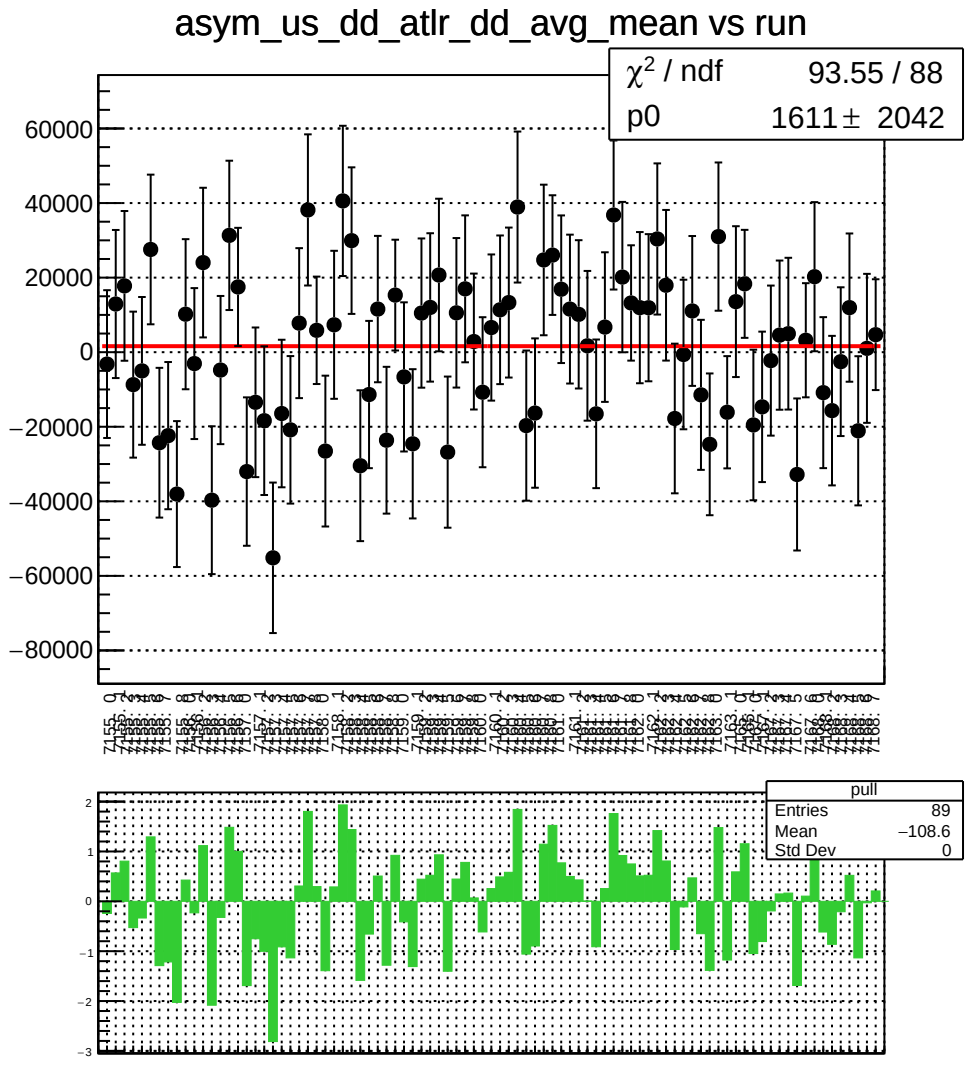

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ^2 / ndf 100.8 / 88
p0 2197 ± 1905
pull
Entries 89
Mean −85.59
Std Dev 0
pull1D
Entries 89
Mean −0.01144
Std Dev 1.064

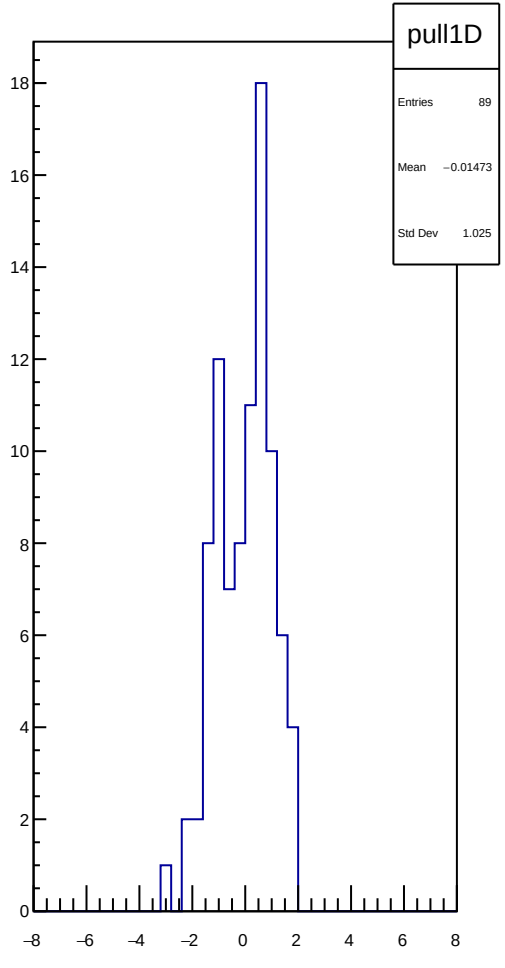

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ^2 / ndf 94 / 88
p0 1772 ± 1.347
1840
1820
1800
1780
1760
1740

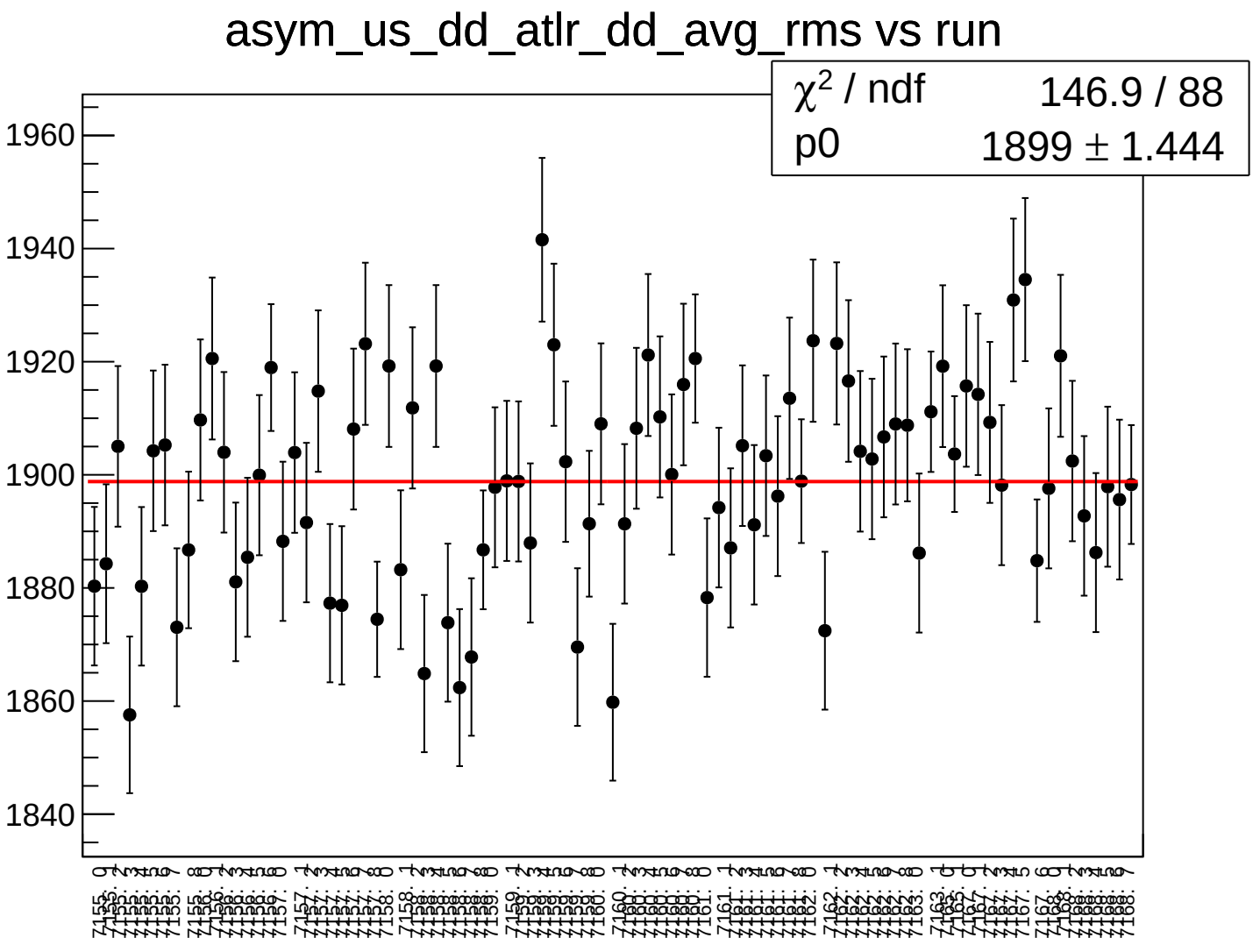

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.45 / 88
p0 521.1 ± 733.1
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −98.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

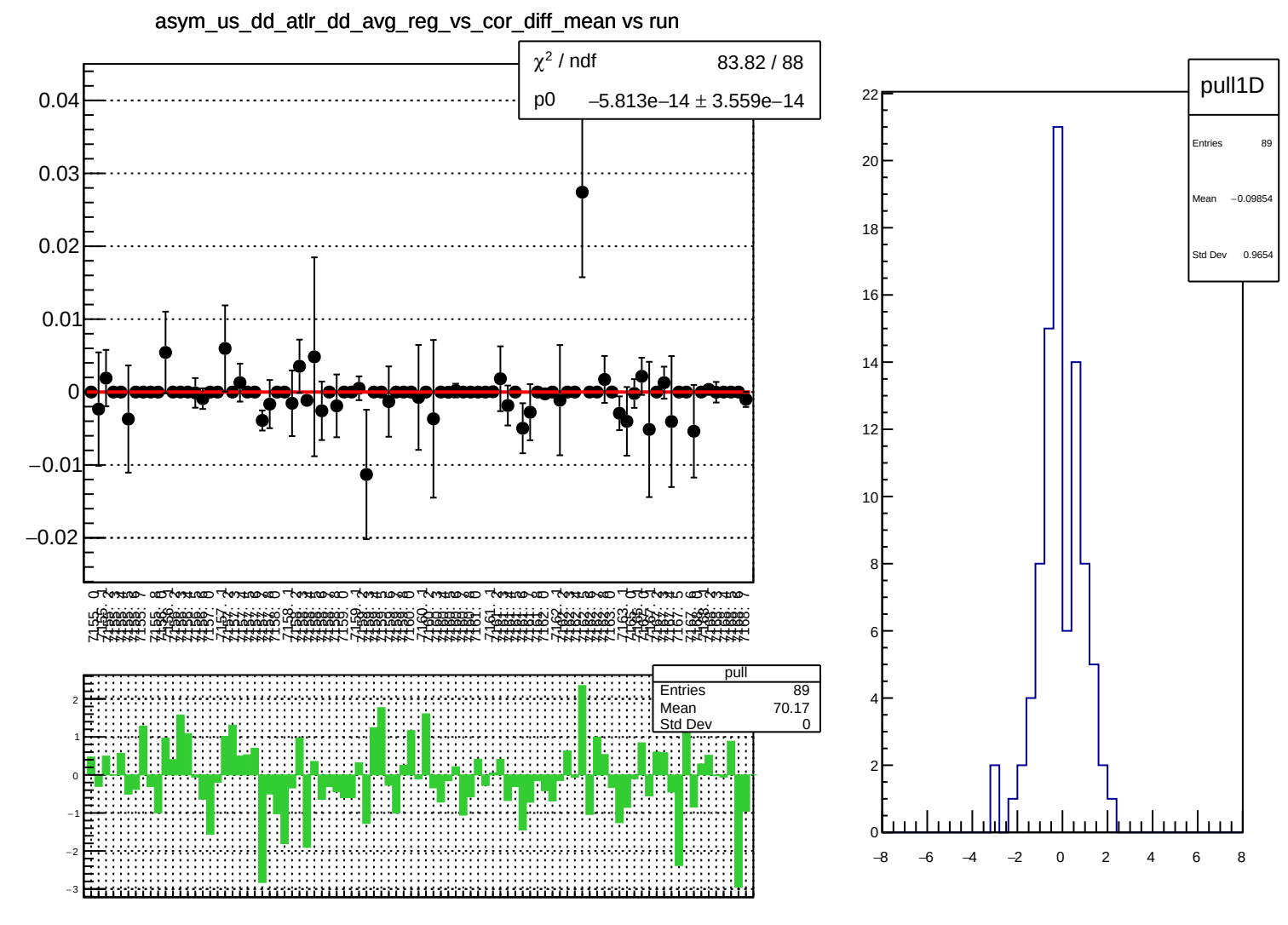

pull1D
Entries 89
Mean 0.01564
Std Dev 0.8959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

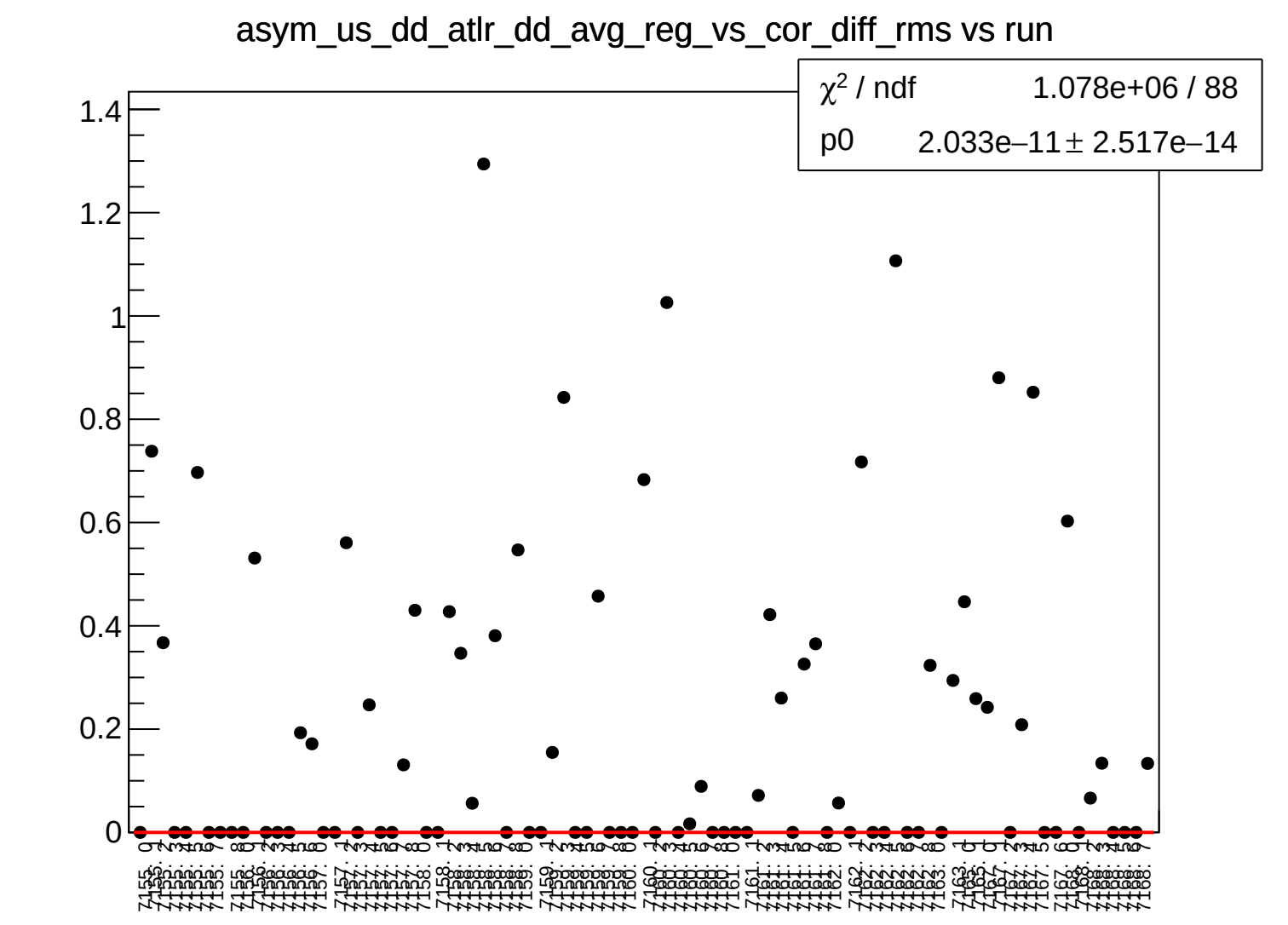

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3337 / 88
p0 681.2 ± 0.5184
780
760
740
720
700
680
660
640
620
600

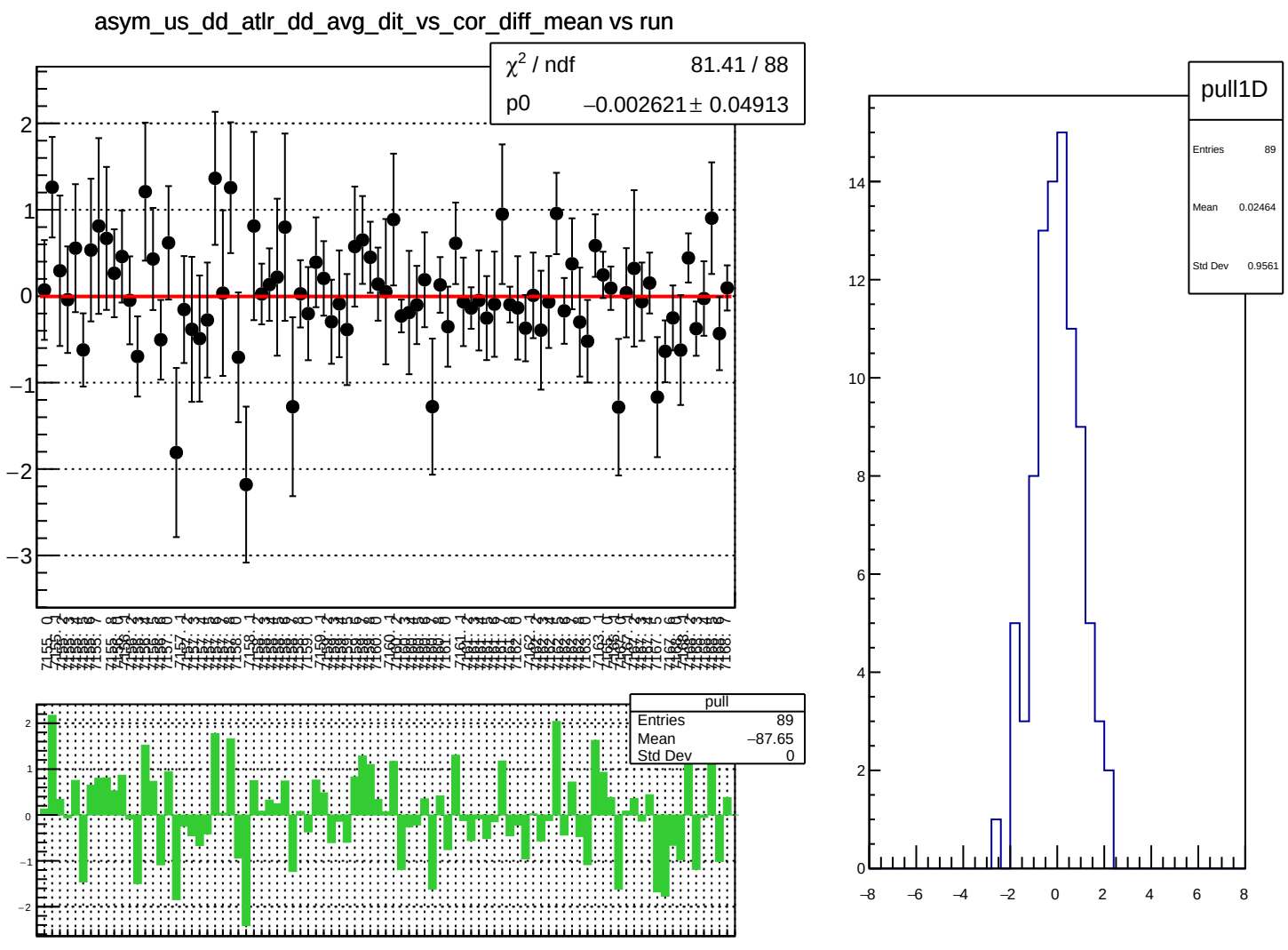

asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.55 / 88
p0 1611 ± 2042
pull
Entries 89
Mean −108.6
Std Dev 0

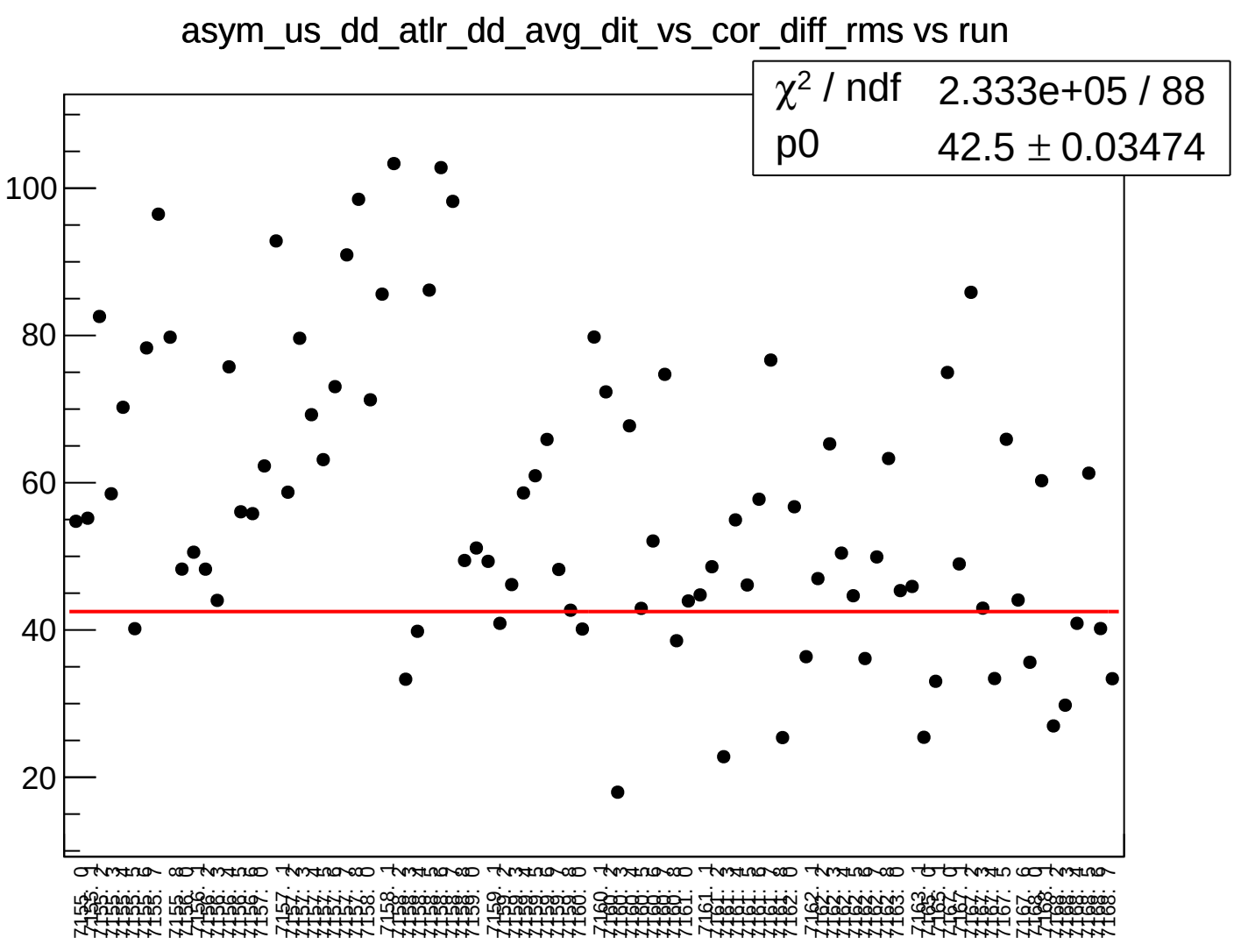

pull1D
Entries 89
Mean −0.01473
Std Dev 1.025

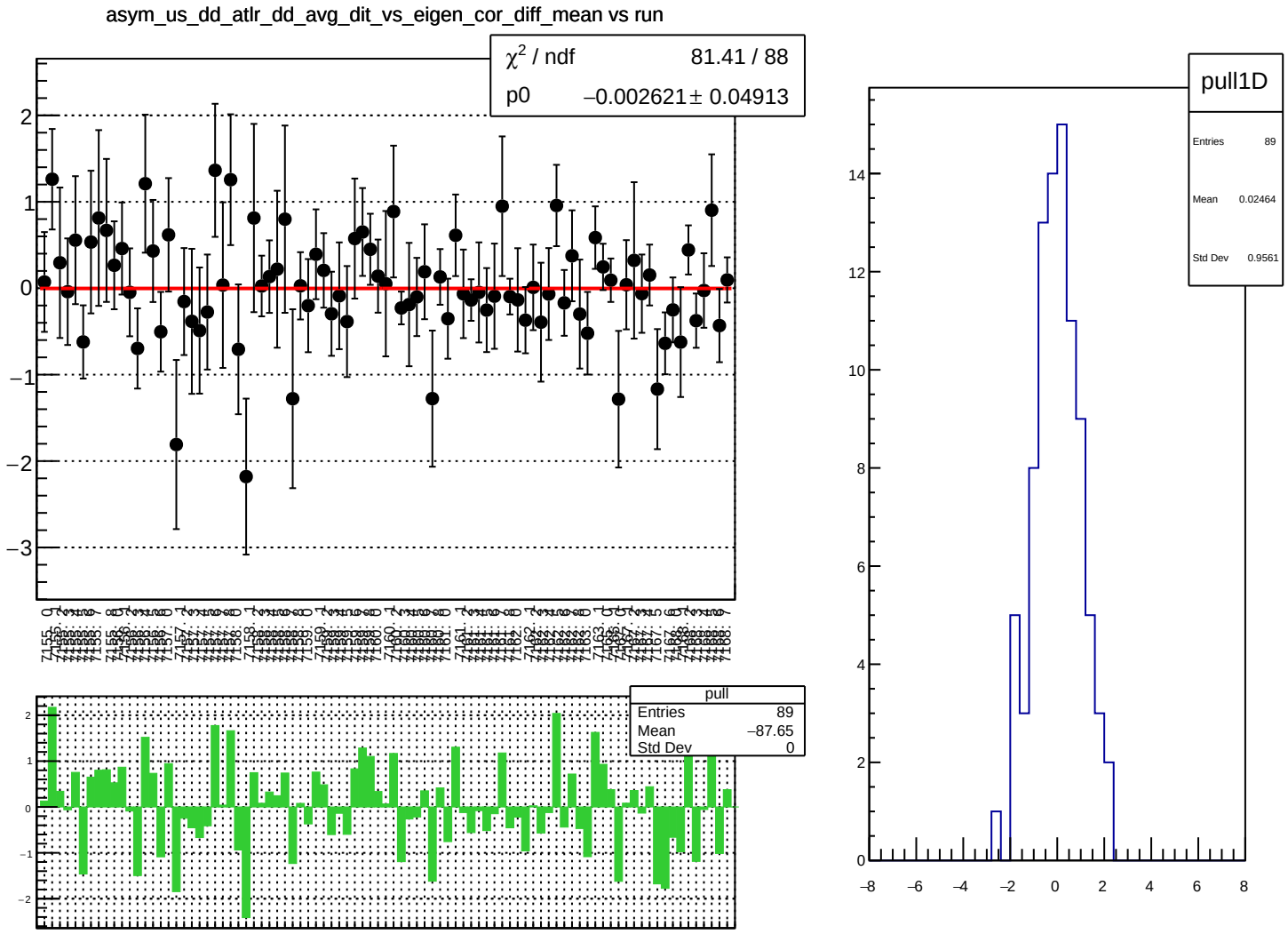

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 146.9 / 88
p0 1899 ± 1.444
1960
1940
1920
1900
1880
1860
1840

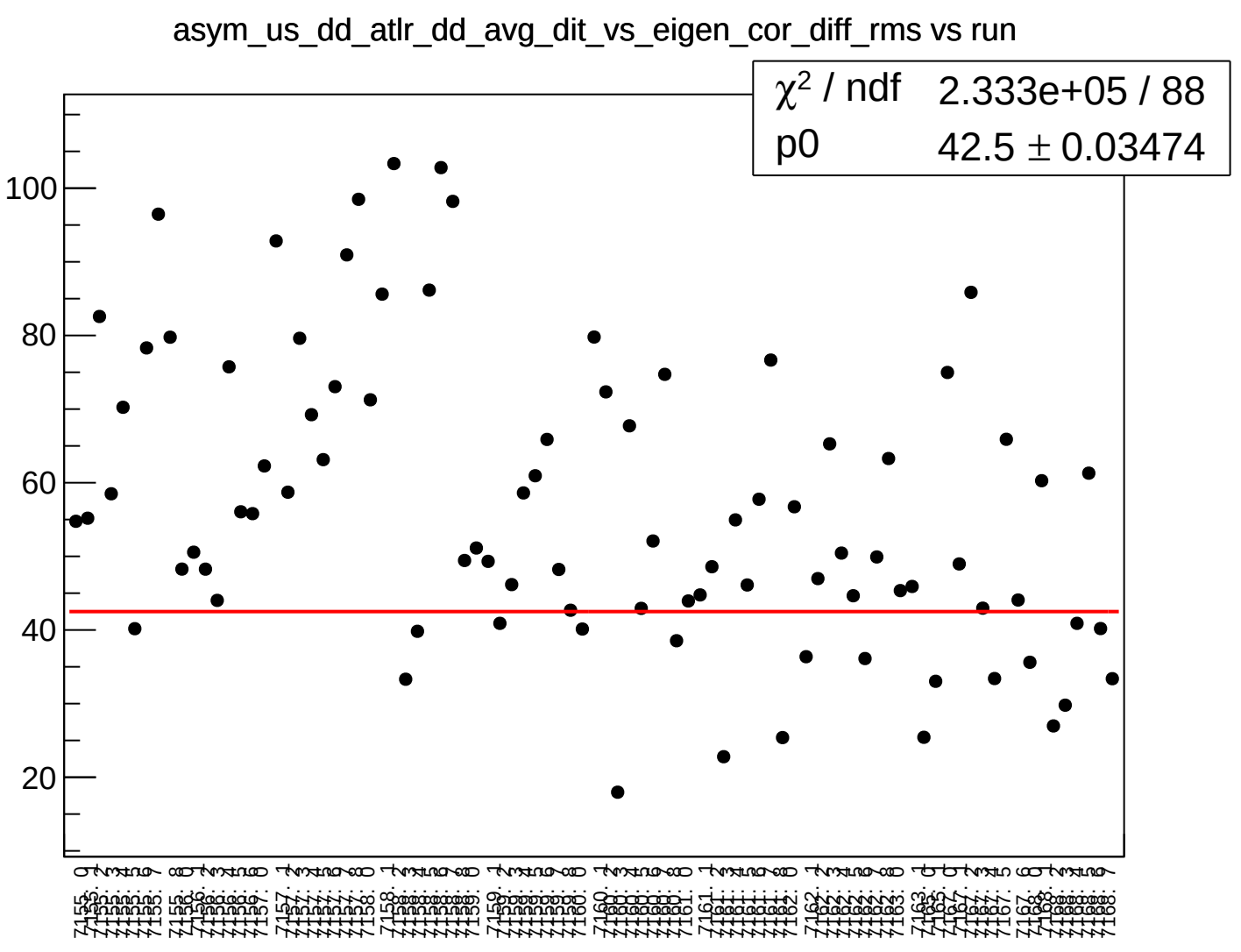

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 83.82 / 88
p0 −5.813e−14 ± 3.559e−14
pull
Entries 89
Mean 70.17
Std Dev 0
pull1D
Entries 89
Mean −0.09854
Std Dev 0.9654

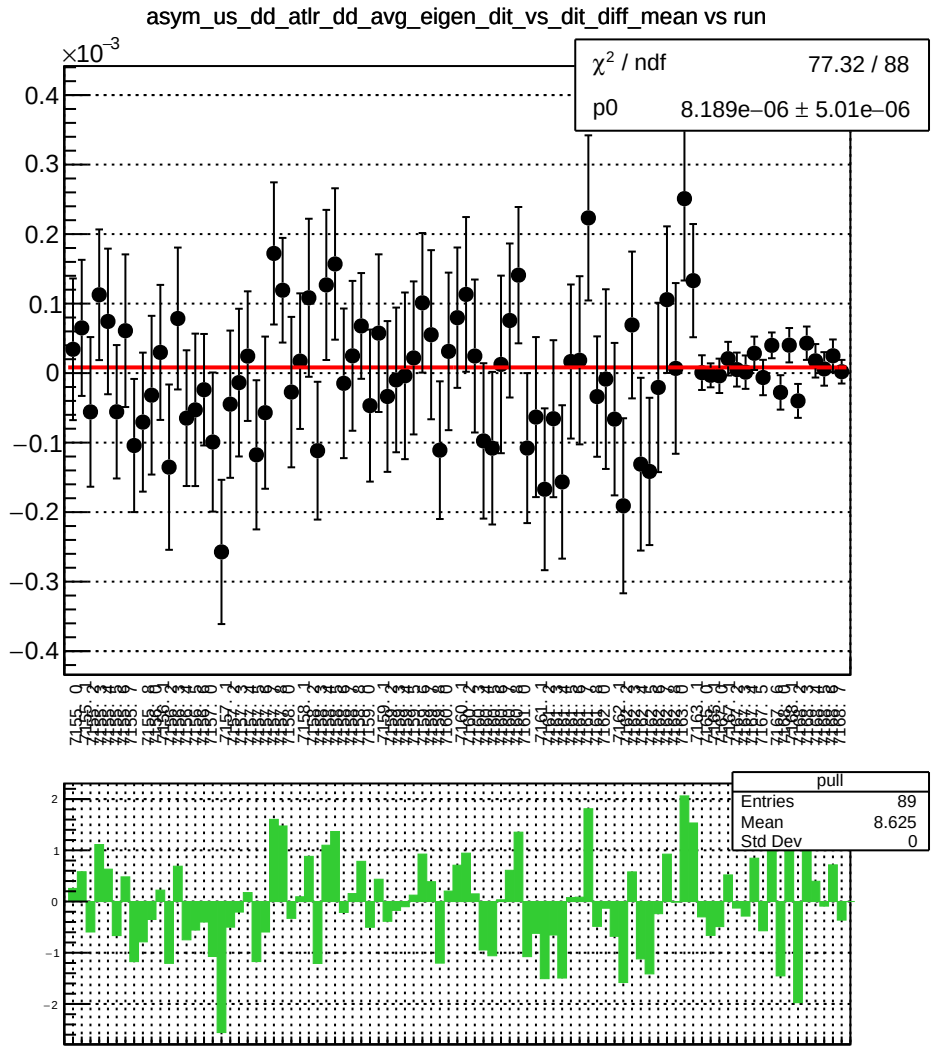

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 88
p0 2.033e−11 ± 2.517e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

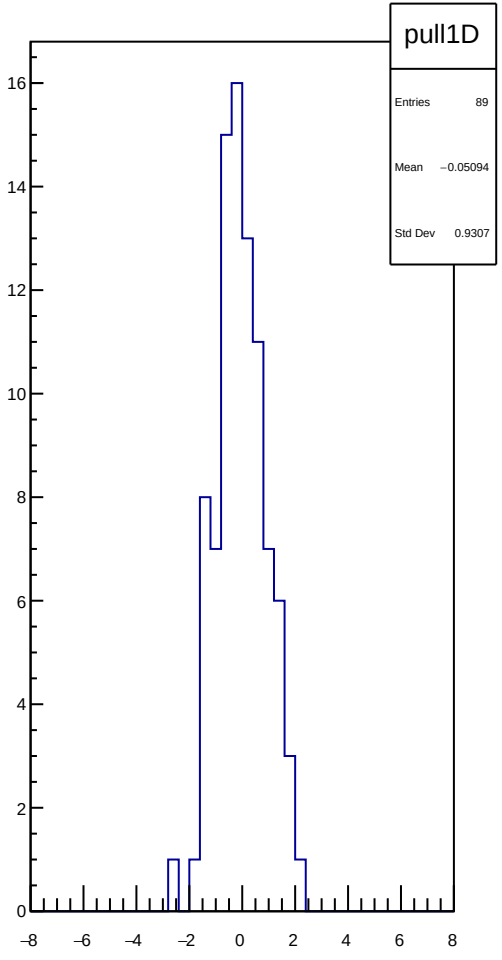

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.41 / 88
p0 −0.002621 ± 0.04913
pull
Entries 89
Mean −87.65
Std Dev 0
pull1D
Entries 89
Mean 0.02464
Std Dev 0.9561

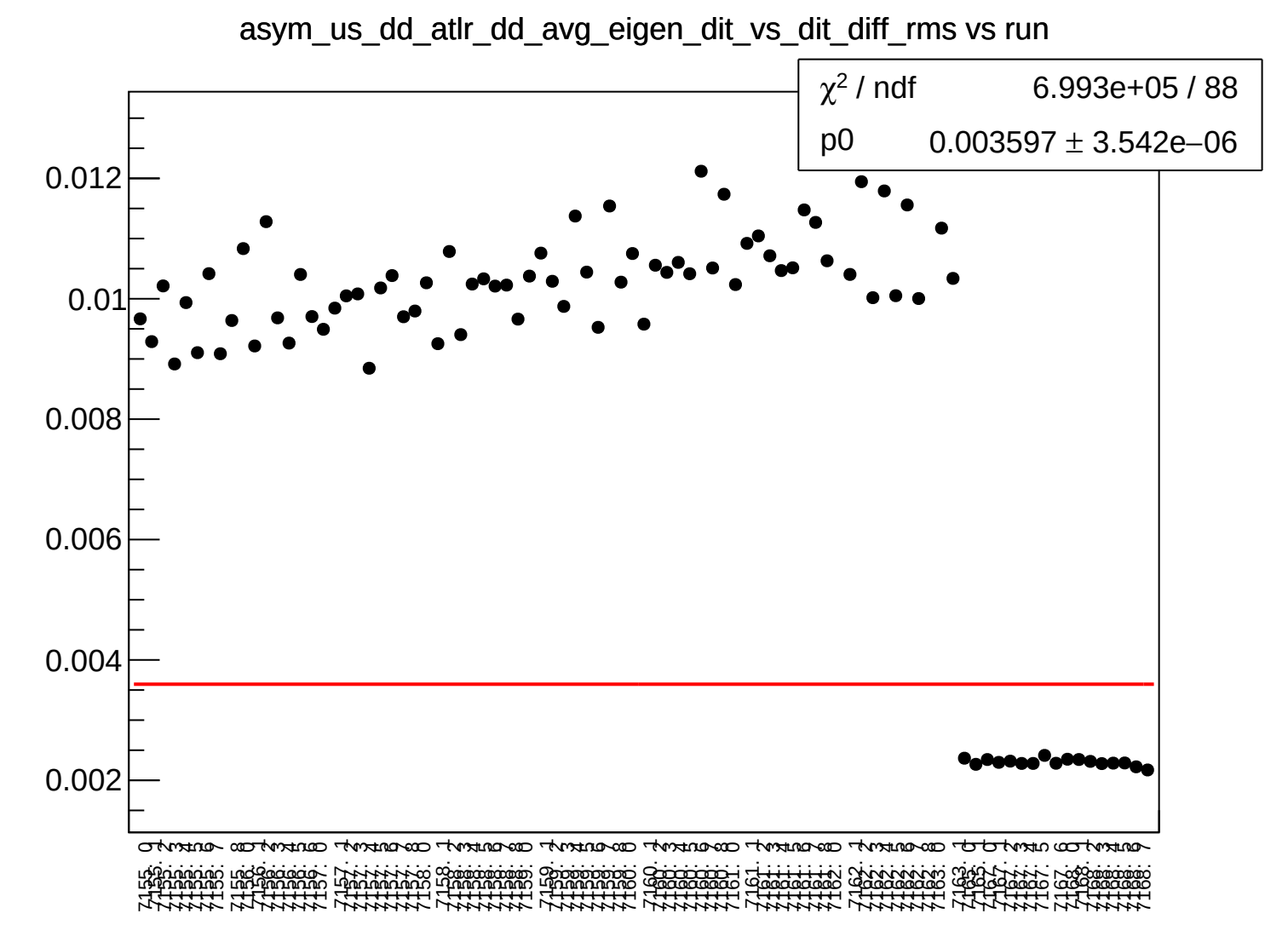

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 88
p0 42.5 ± 0.03474
100
80
60
40
20

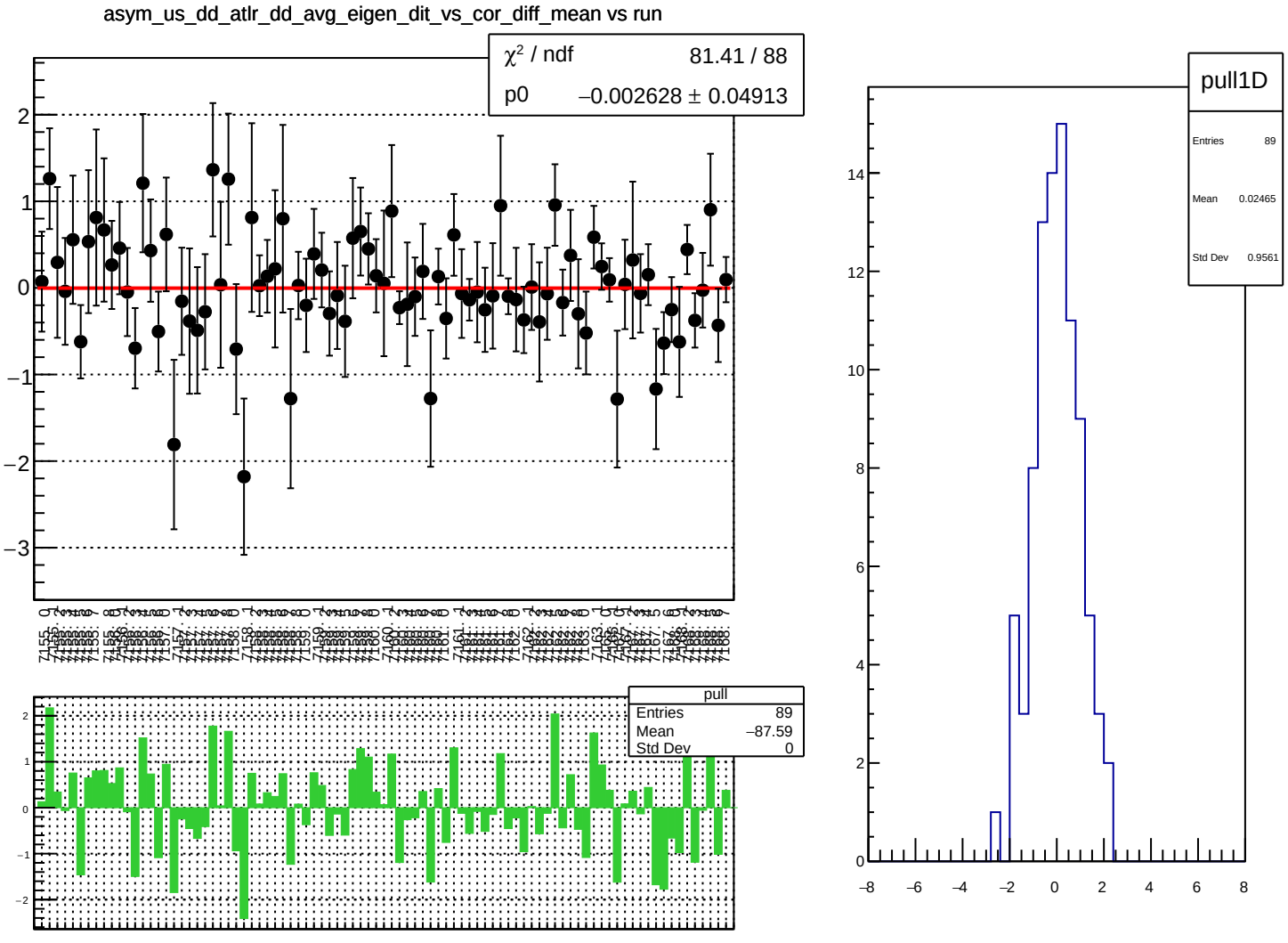

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.41 / 88
p0 −0.002621 ± 0.04913
pull
Entries 89
Mean −87.65
Std Dev 0
pull1D
Entries 89
Mean 0.02464
Std Dev 0.9561

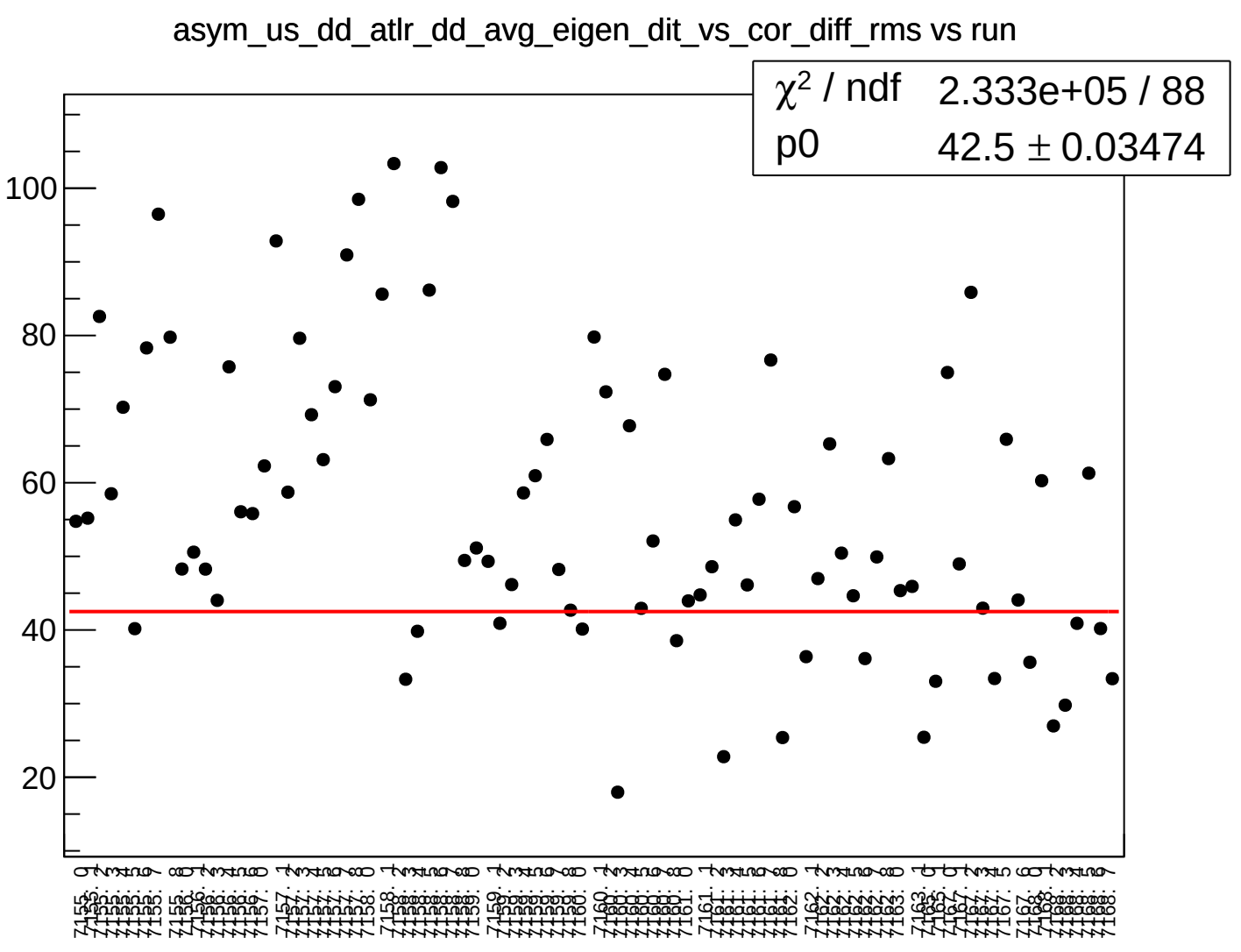

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 88
p0 42.5 ± 0.03474
100
80
60
40
20

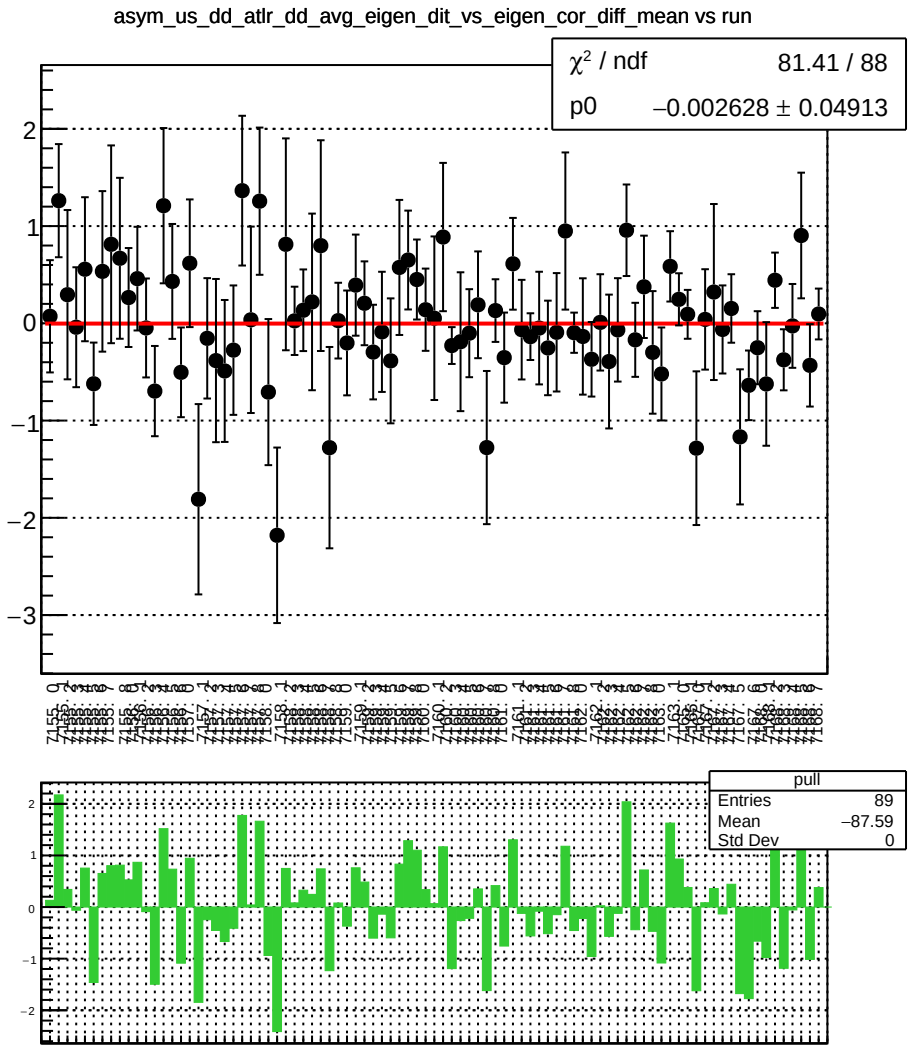

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.32 / 88
p0 8.189e−06 ± 5.01e−06
pull
Entries 89
Mean 8.625
Std Dev 0

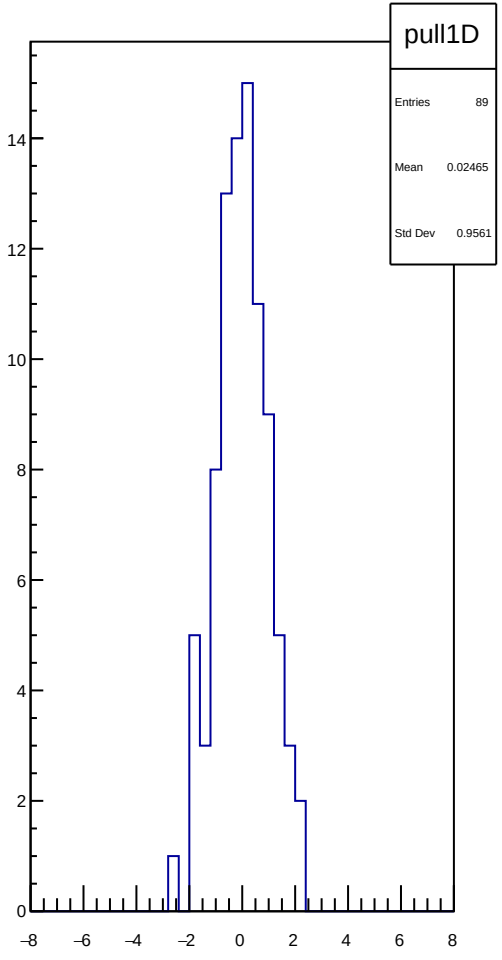

pull1D
Entries 89
Mean −0.05094
Std Dev 0.9307

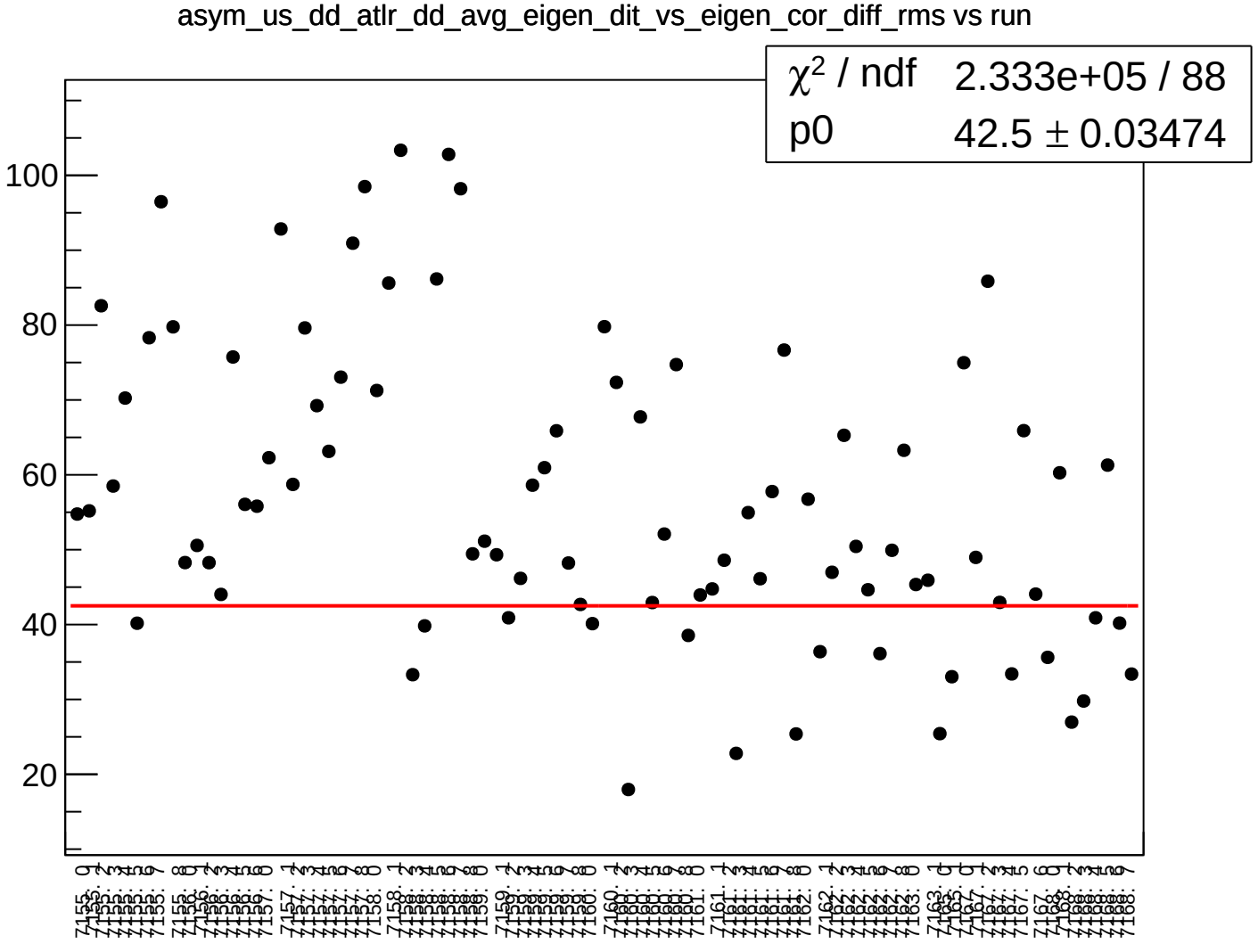

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.993e+05 / 88
p0 0.003597 ± 3.542e−06
0.012
0.01
0.008
0.006
0.004
0.002

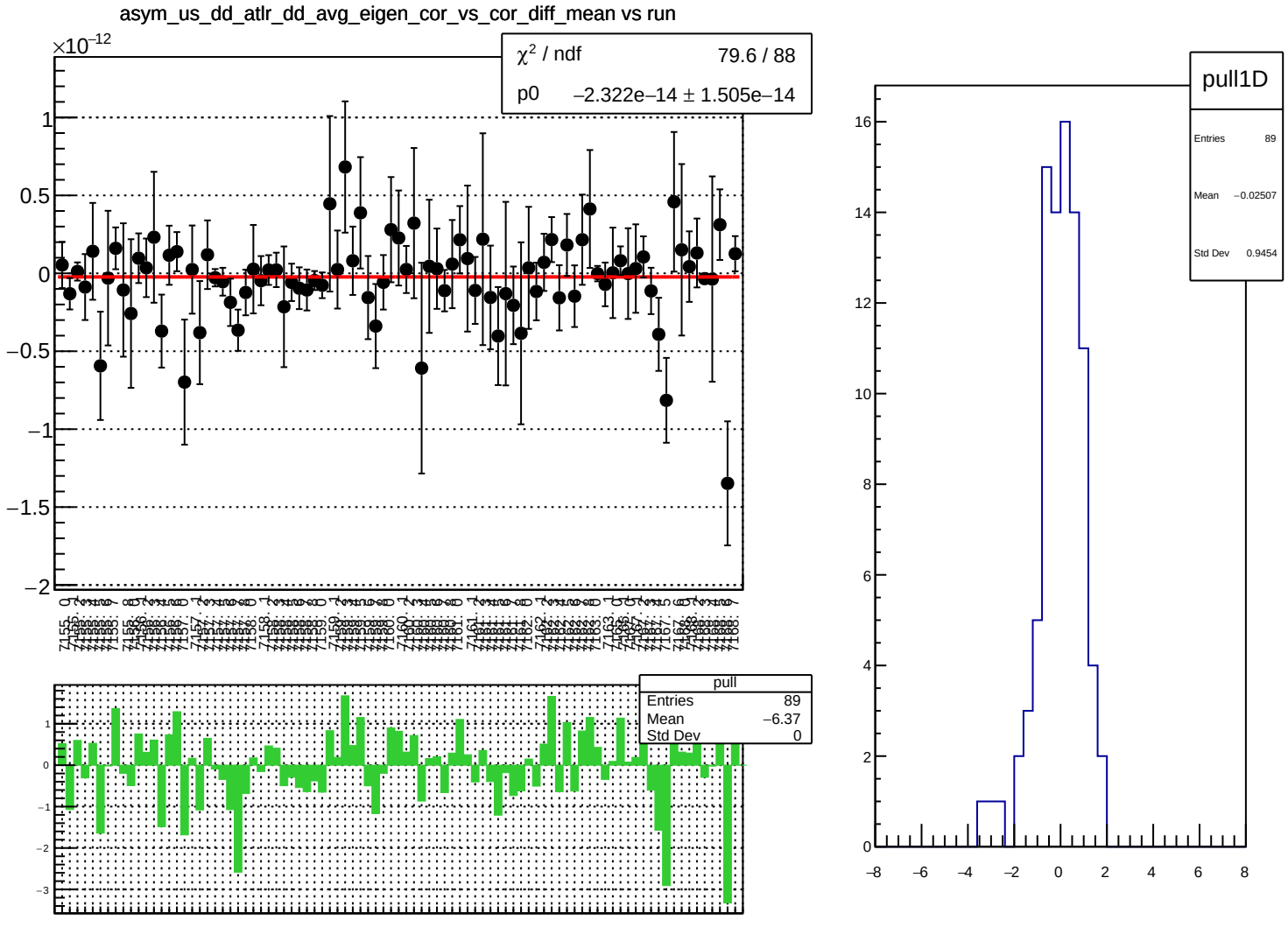

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.41 / 88
p0 −0.002628 ± 0.04913
pull
Entries 89
Mean −87.59
Std Dev 0
pull1D
Entries 89
Mean 0.02465
Std Dev 0.9561

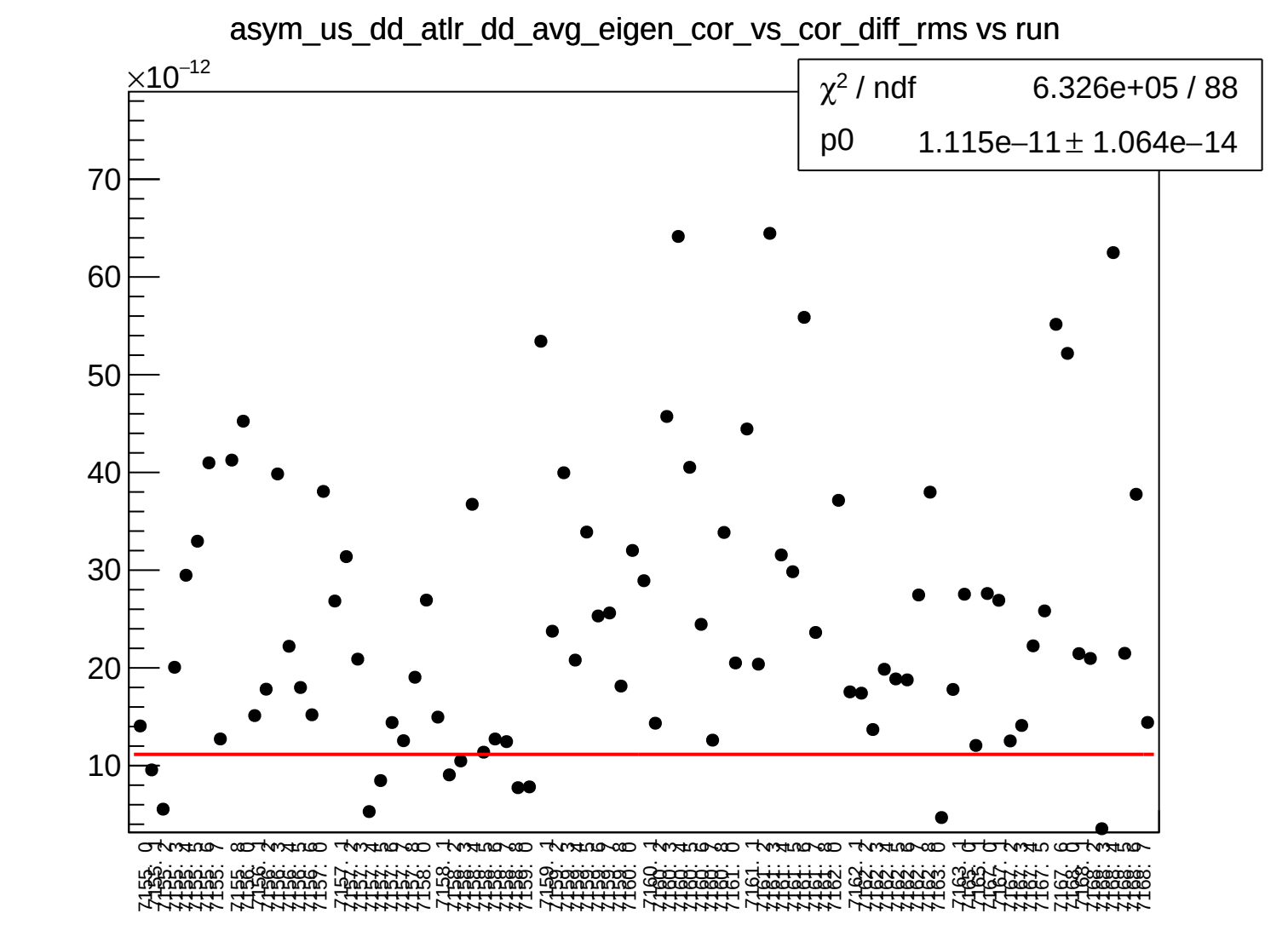

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 88
p0 42.5 ± 0.03474
100
80
60
40
20

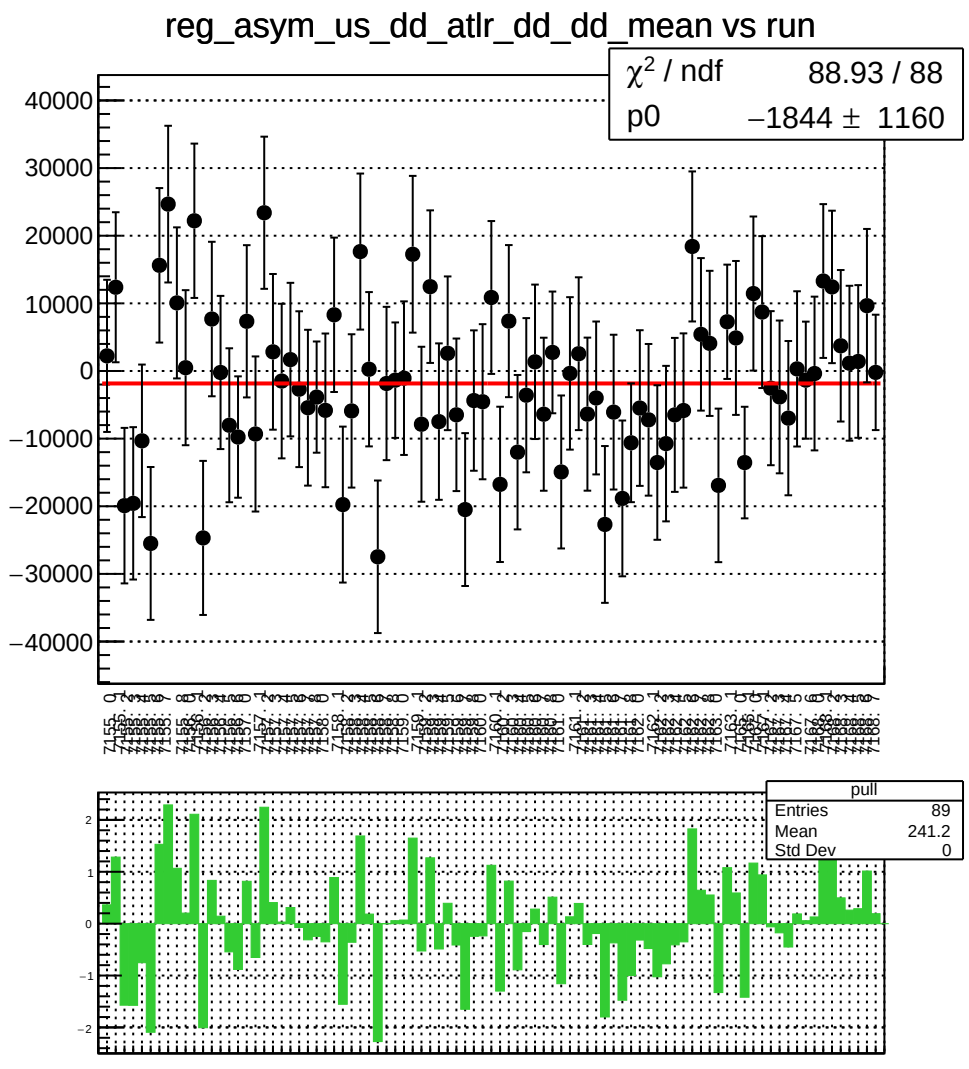

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.41 / 88
p0 −0.002628 ± 0.04913
pull
Entries 89
Mean −87.59
Std Dev 0

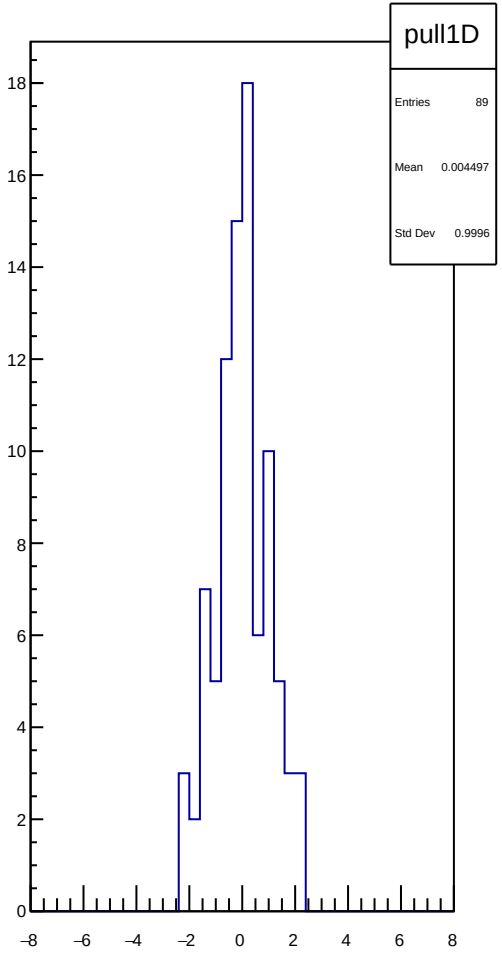

pull1D
Entries 89
Mean 0.02465
Std Dev 0.9561

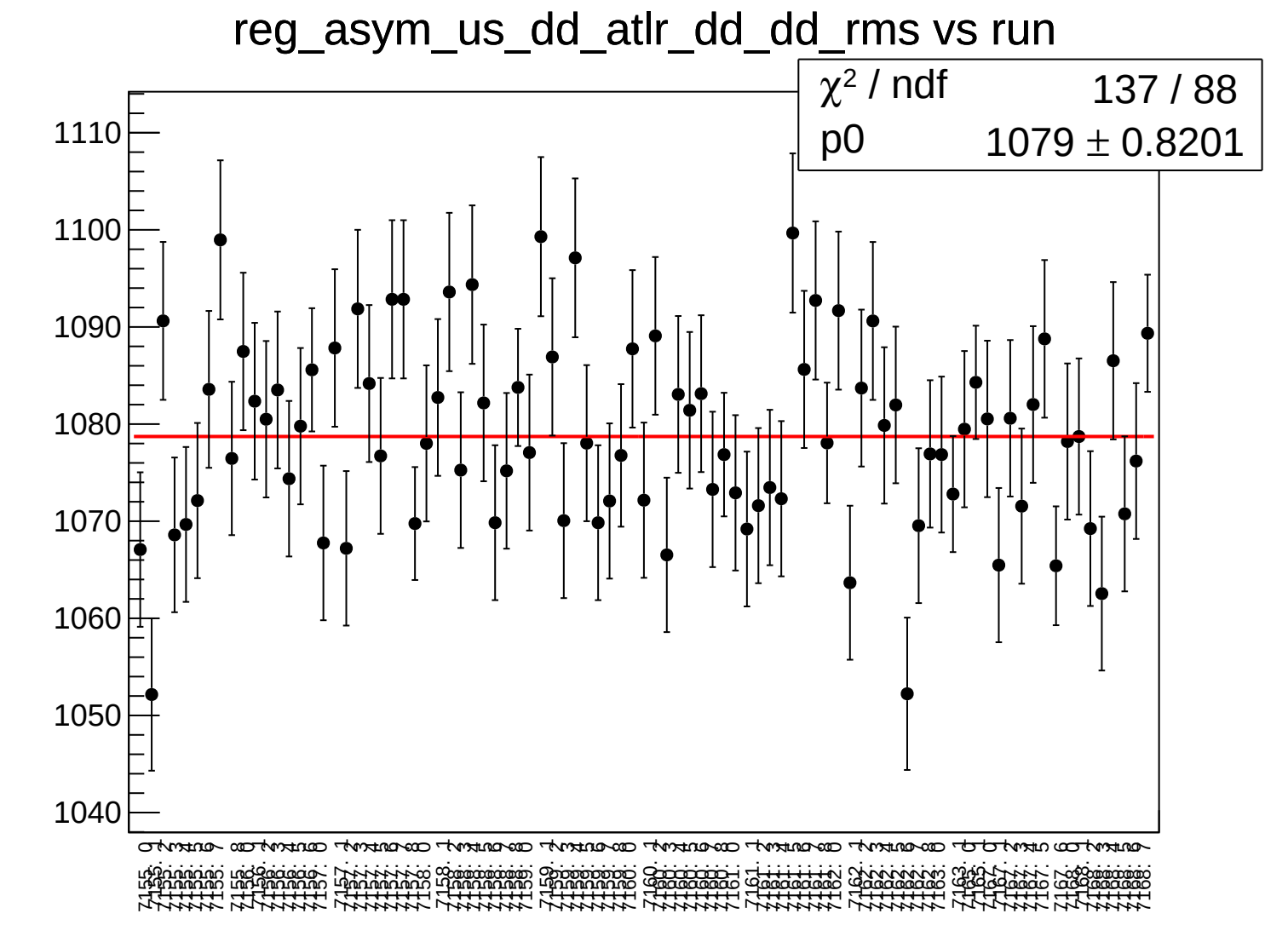

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.333e+05 / 88
p0 42.5 ± 0.03474
100
80
60
40
20

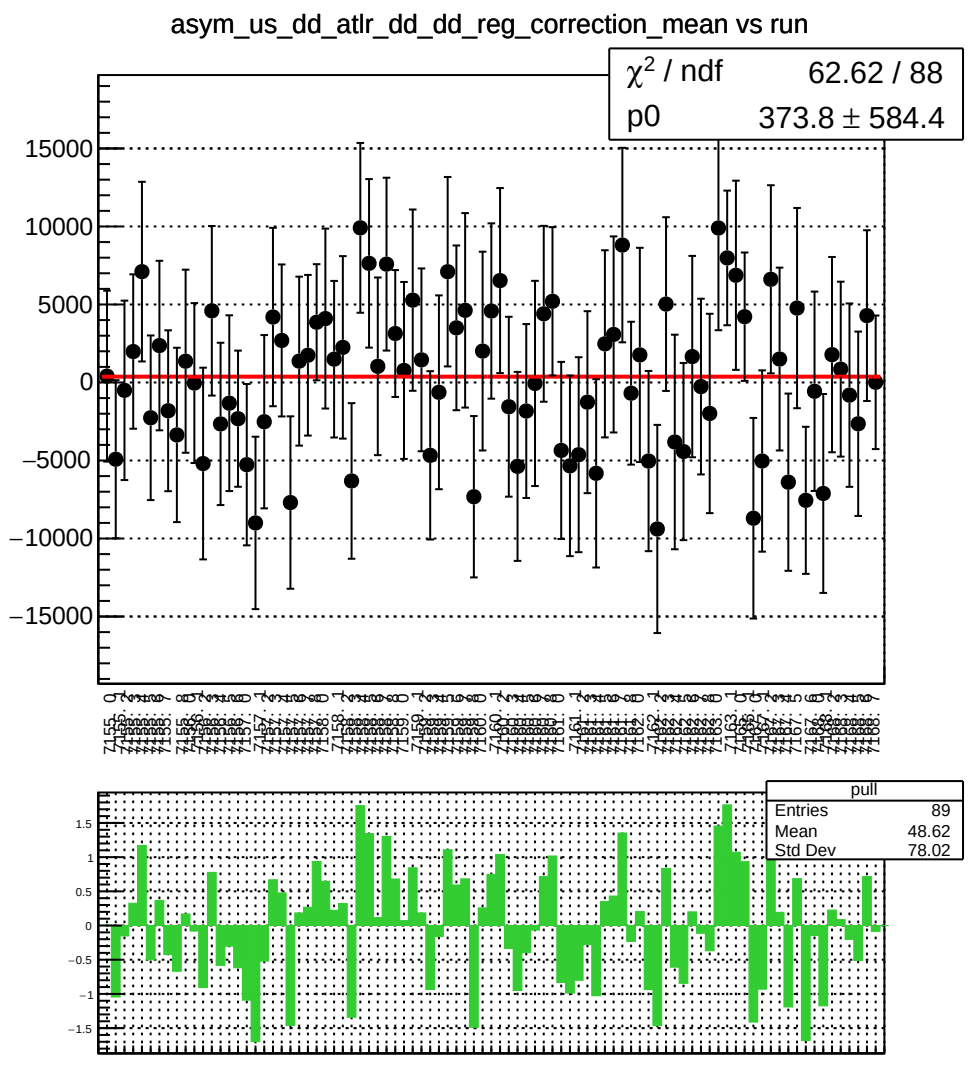

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.6 / 88
p0 −2.322e−14 ± 1.505e−14
pull
Entries 89
Mean −6.37
Std Dev 0
pull1D
Entries 89
Mean −0.02507
Std Dev 0.9454

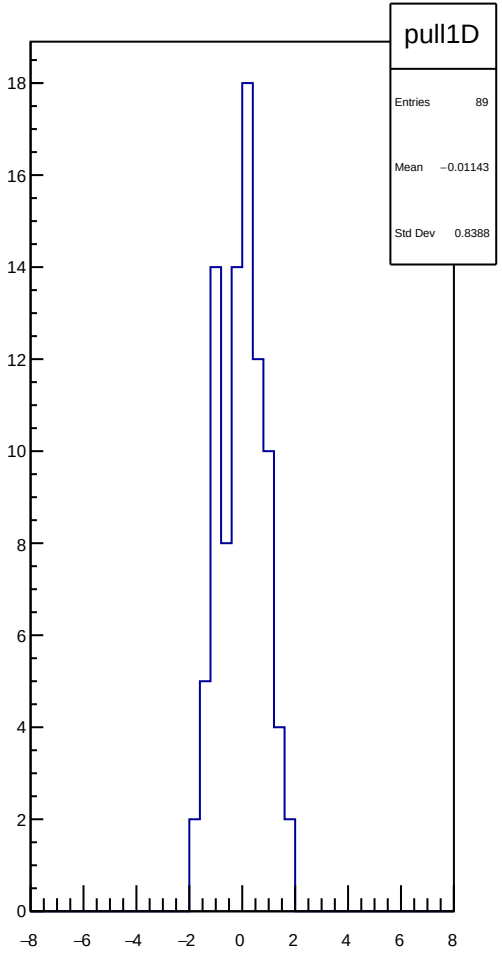

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.326e+05 / 88
p0 1.115e−11 ± 1.064e−14
70
60
50
40
30
20
10

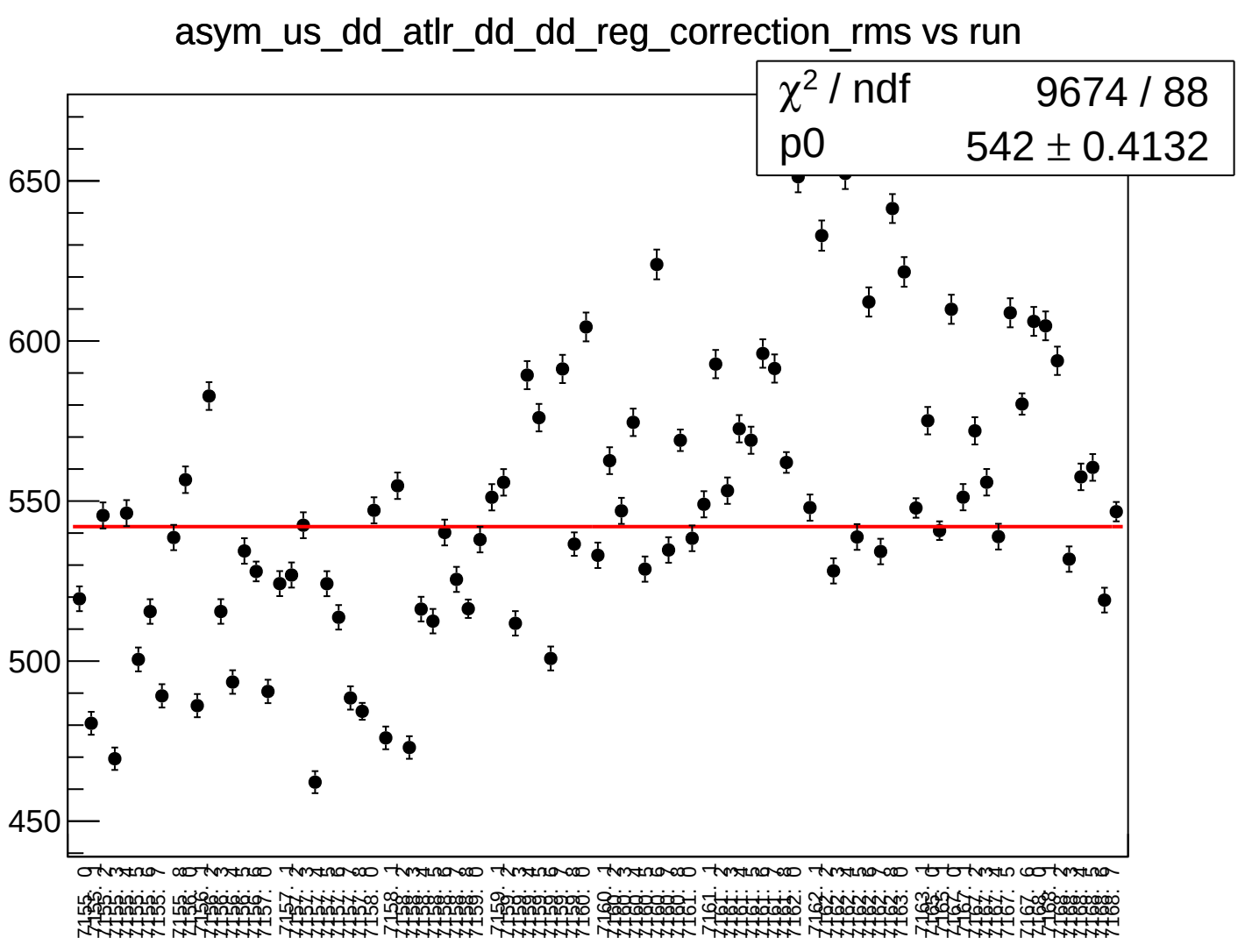

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.93 / 88
p0 −1844 ± 1160
pull
Entries 89
Mean 241.2
Std Dev 0

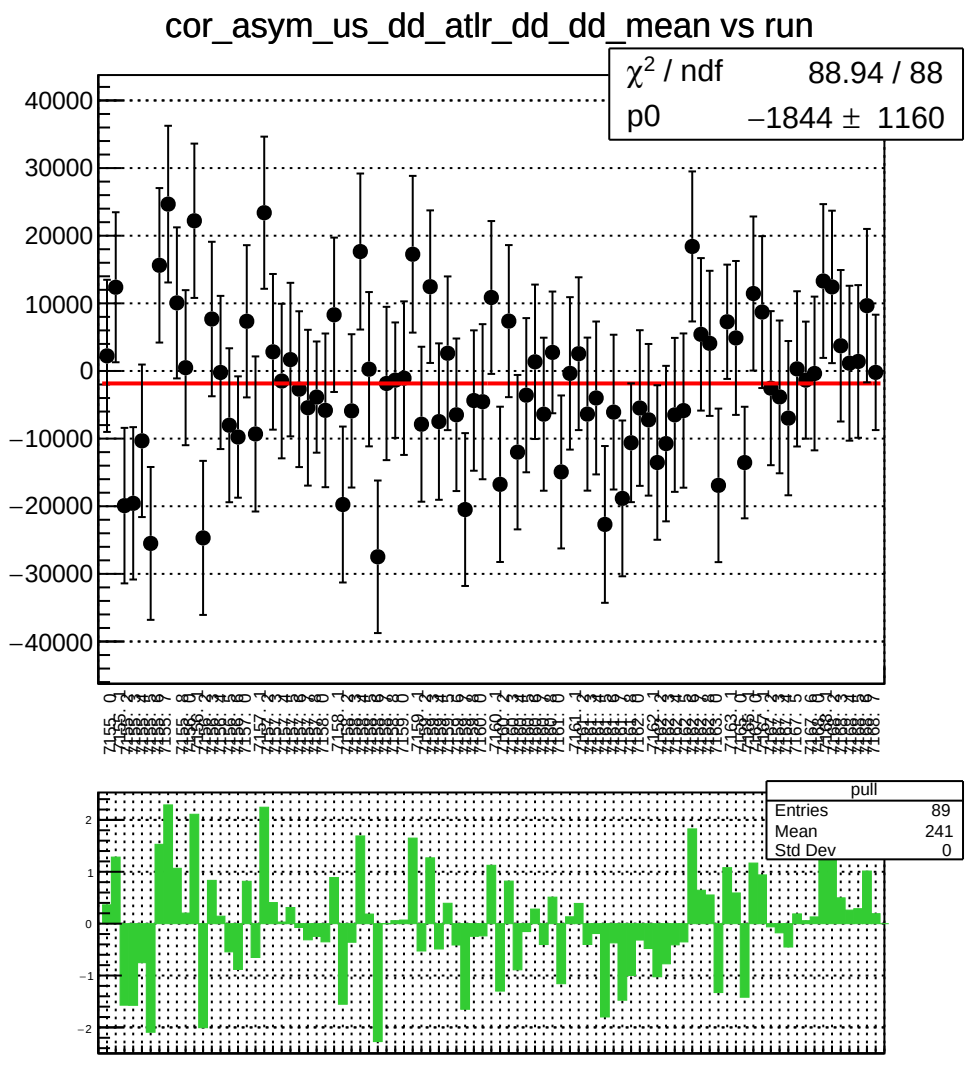

pull1D
Entries 89
Mean 0.004497
Std Dev 0.9996

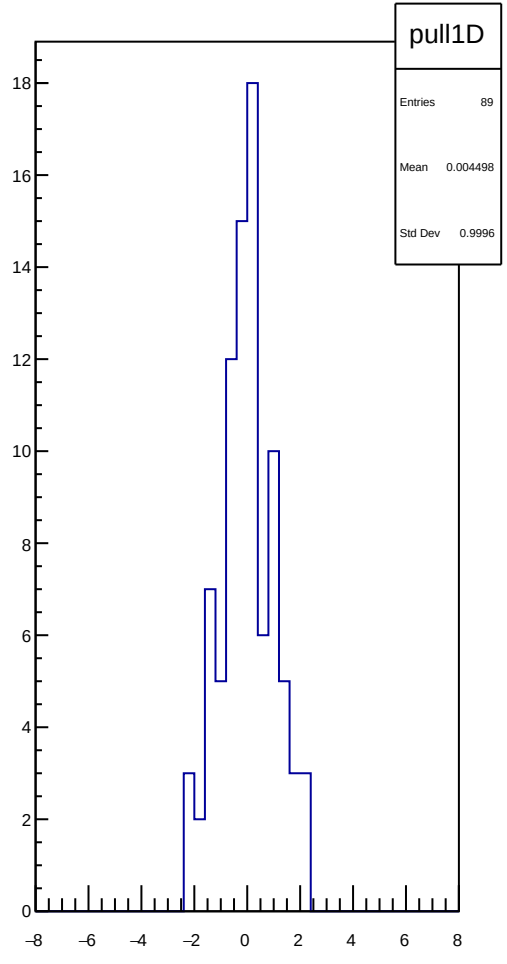

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 137 / 88
p0 1079 ± 0.8201
1110
1100
1090
1080
1070
1060
1050
1040

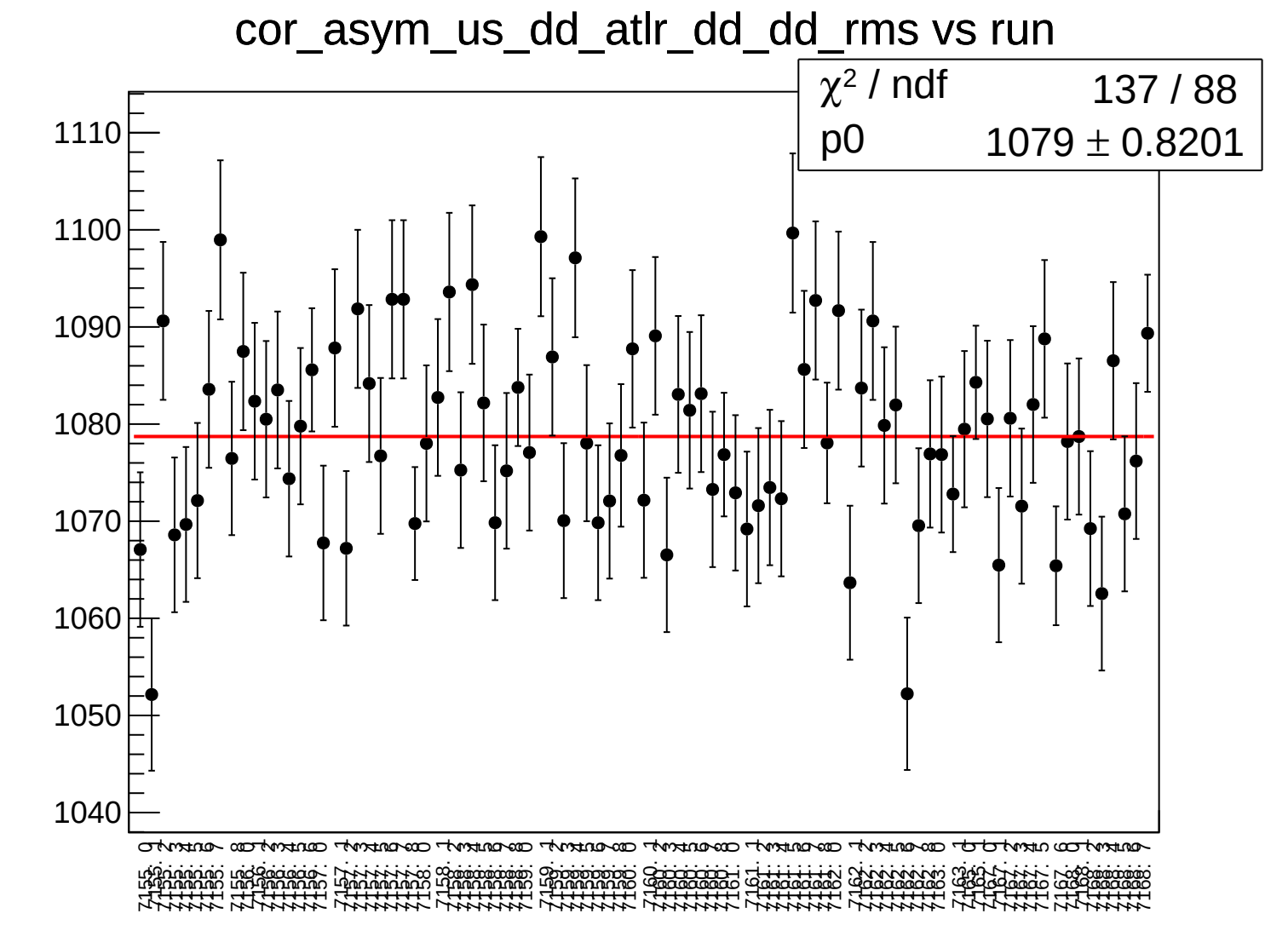

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 62.62 / 88
p0 373.8 ± 584.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 48.62
Std Dev 78.02
1.5
1
0.5
0
−0.5
−1
−1.5

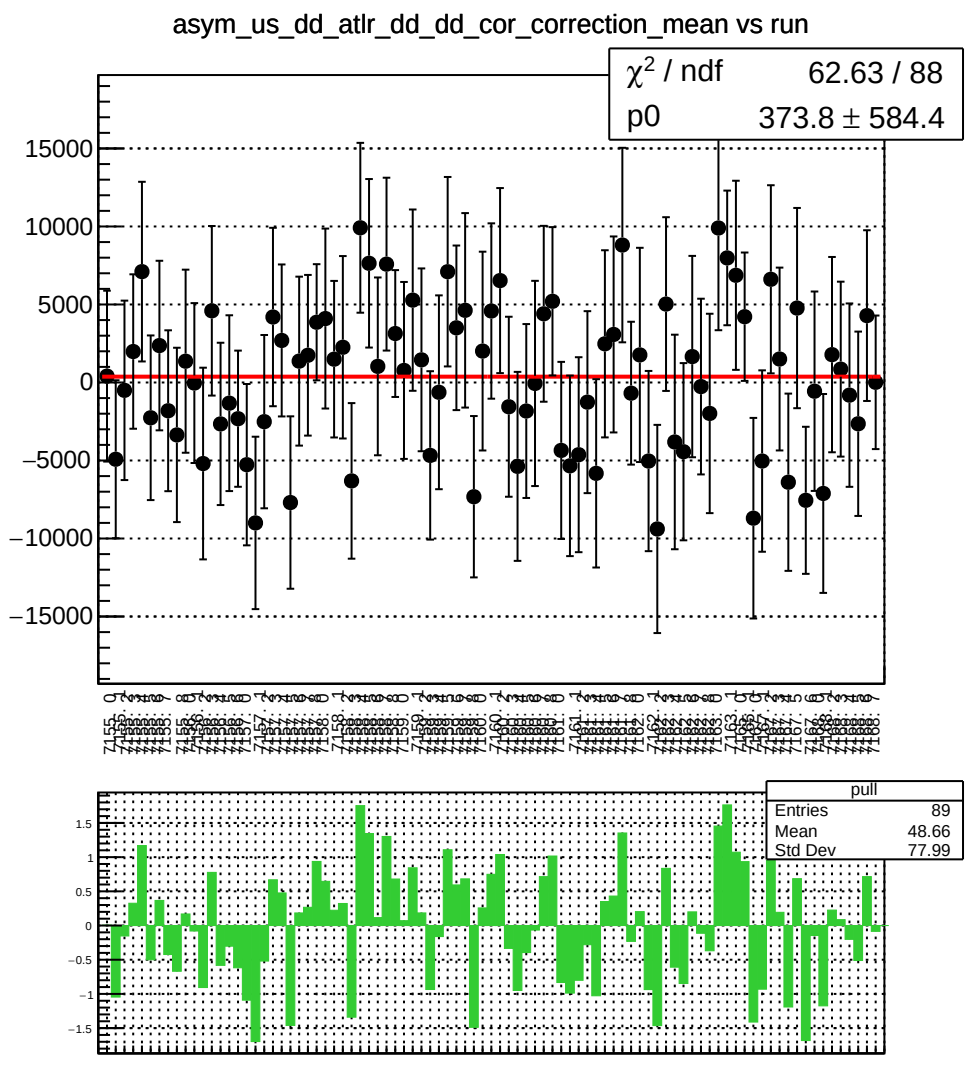

pull1D
Entries 89
Mean −0.01143
Std Dev 0.8388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

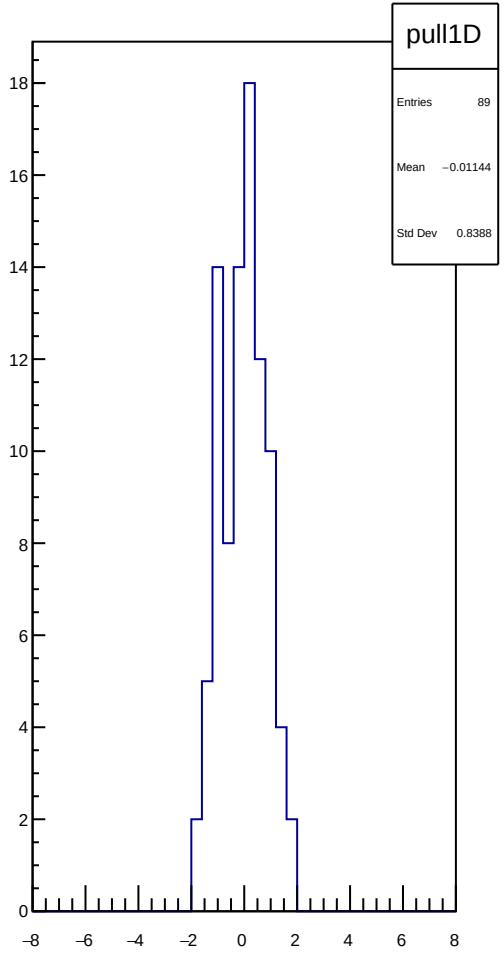

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 9674 / 88
p0 542 ± 0.4132
650
600
550
500
450

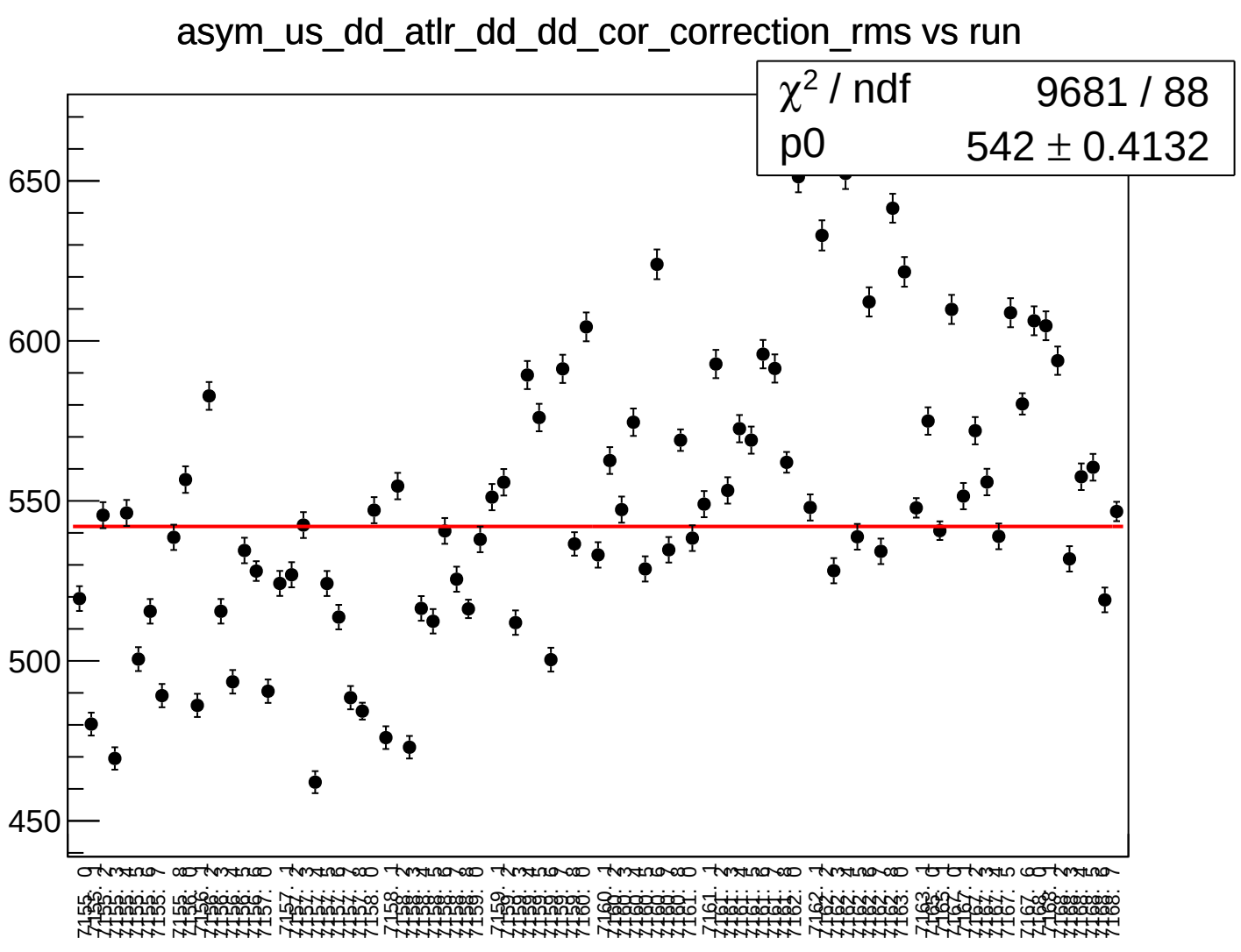

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.94 / 88
p0 −1844 ± 1160
pull
Entries 89
Mean 241
Std Dev 0

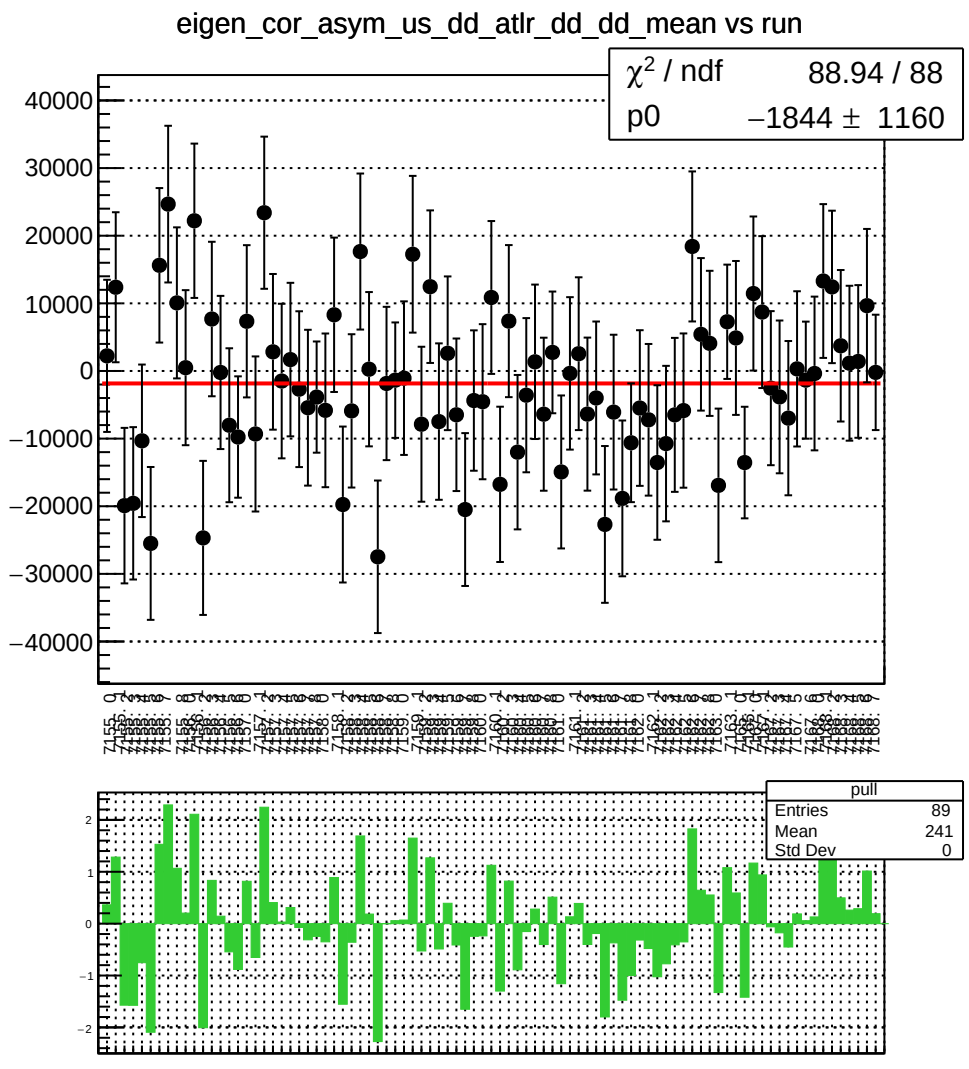

pull1D
Entries 89
Mean 0.004498
Std Dev 0.9996

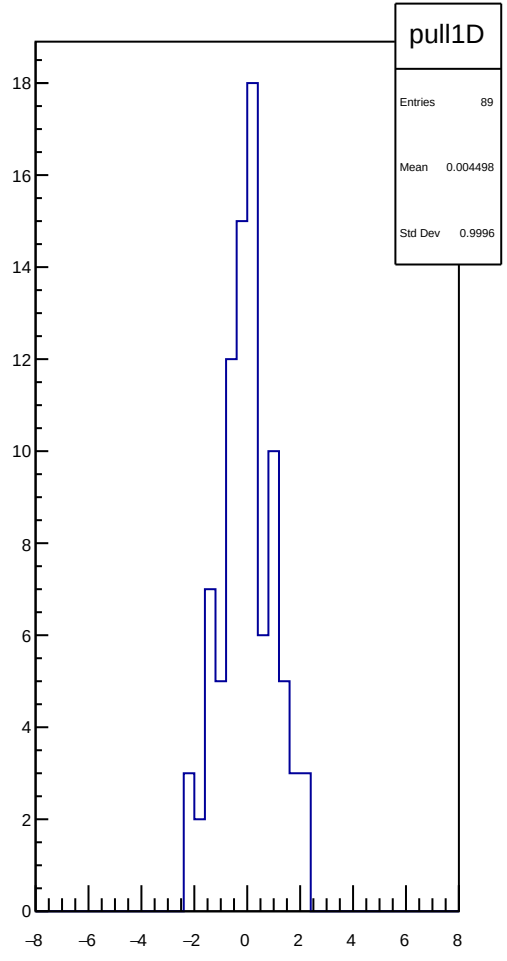

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 137 / 88
p0 1079 ± 0.8201
1110
1100
1090
1080
1070
1060
1050
1040

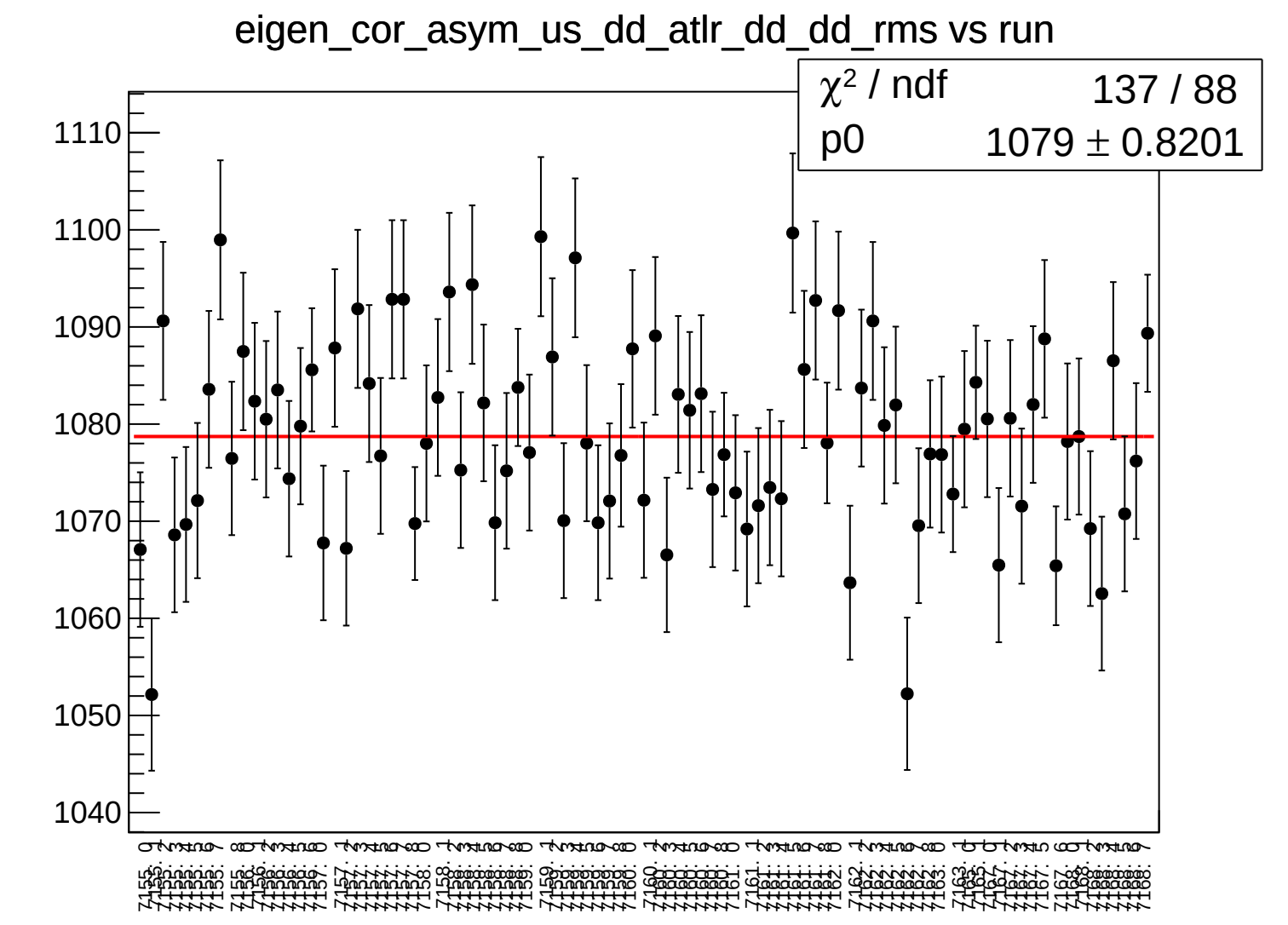

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 62.63 / 88
p0 373.8 ± 584.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 48.66
Std Dev 77.99
1.5
1
0.5
0
−0.5
−1
−1.5

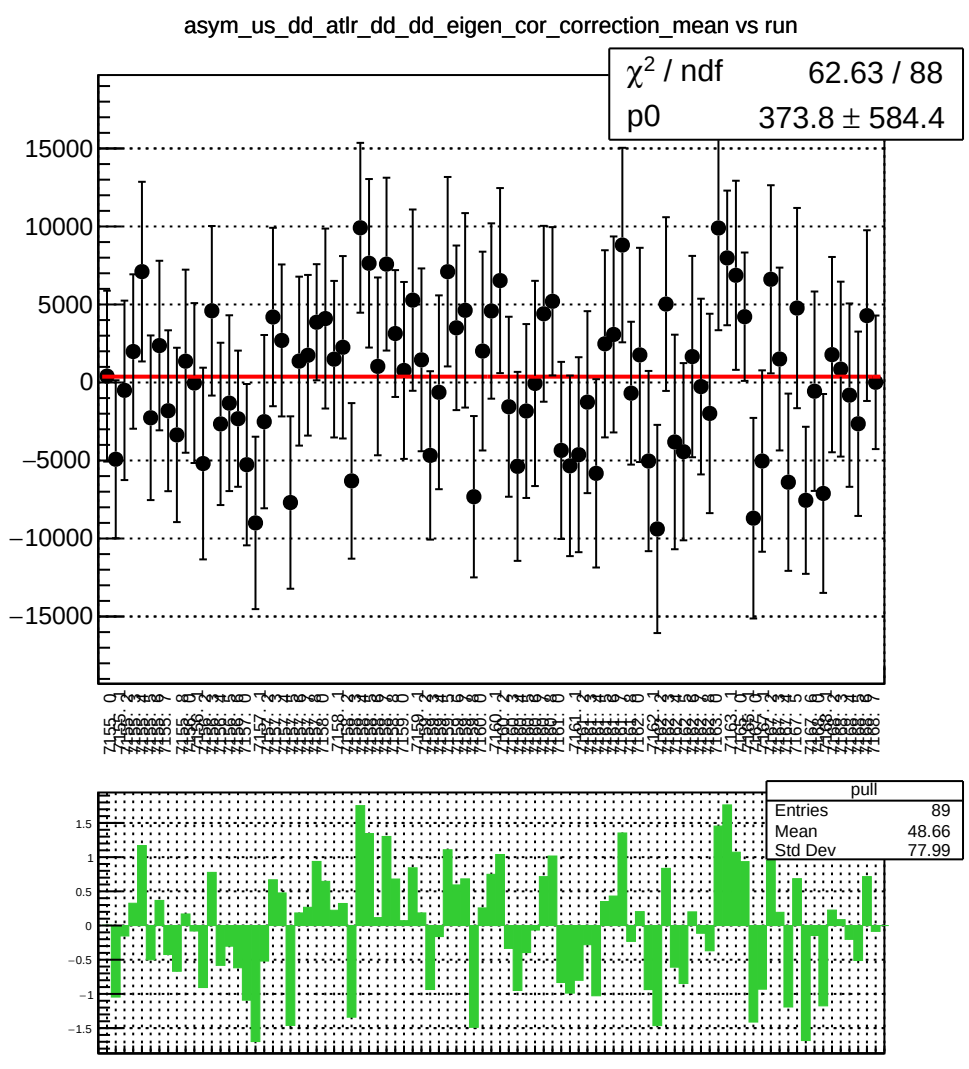

pull1D
Entries 89
Mean −0.01144
Std Dev 0.8388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

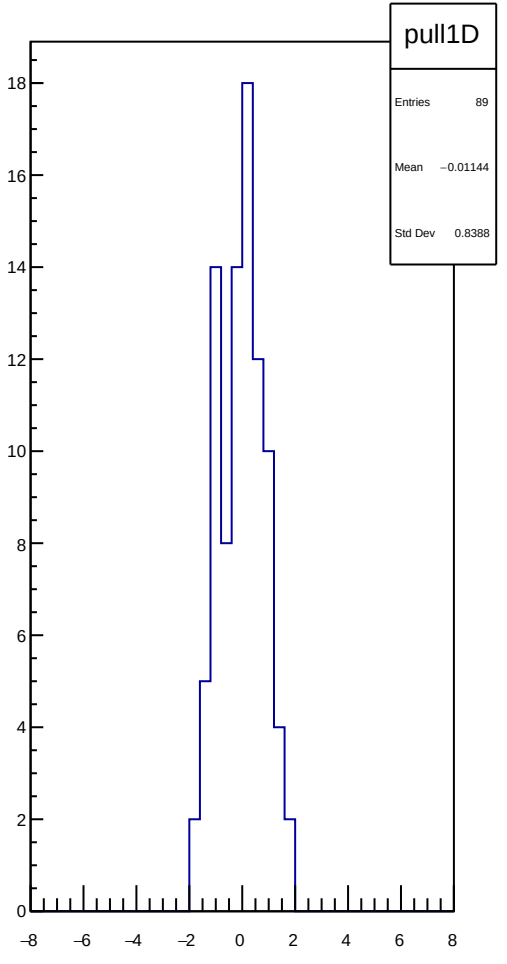

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 9681 / 88
p0 542 ± 0.4132
650
600
550
500
450

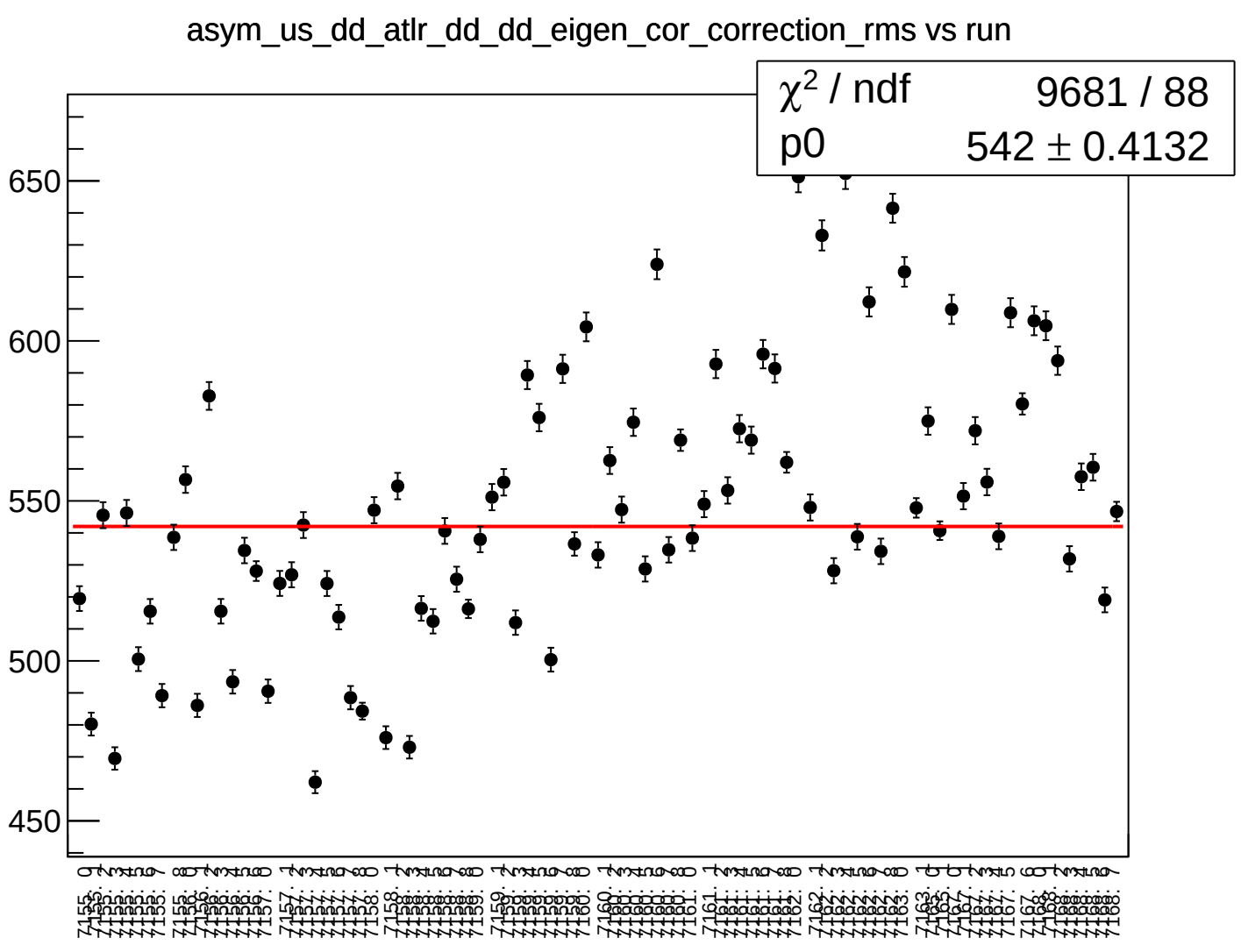

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.94 / 88
p0 −1844 ± 1160
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 241
Std Dev 0
2
1
0
−1
−2

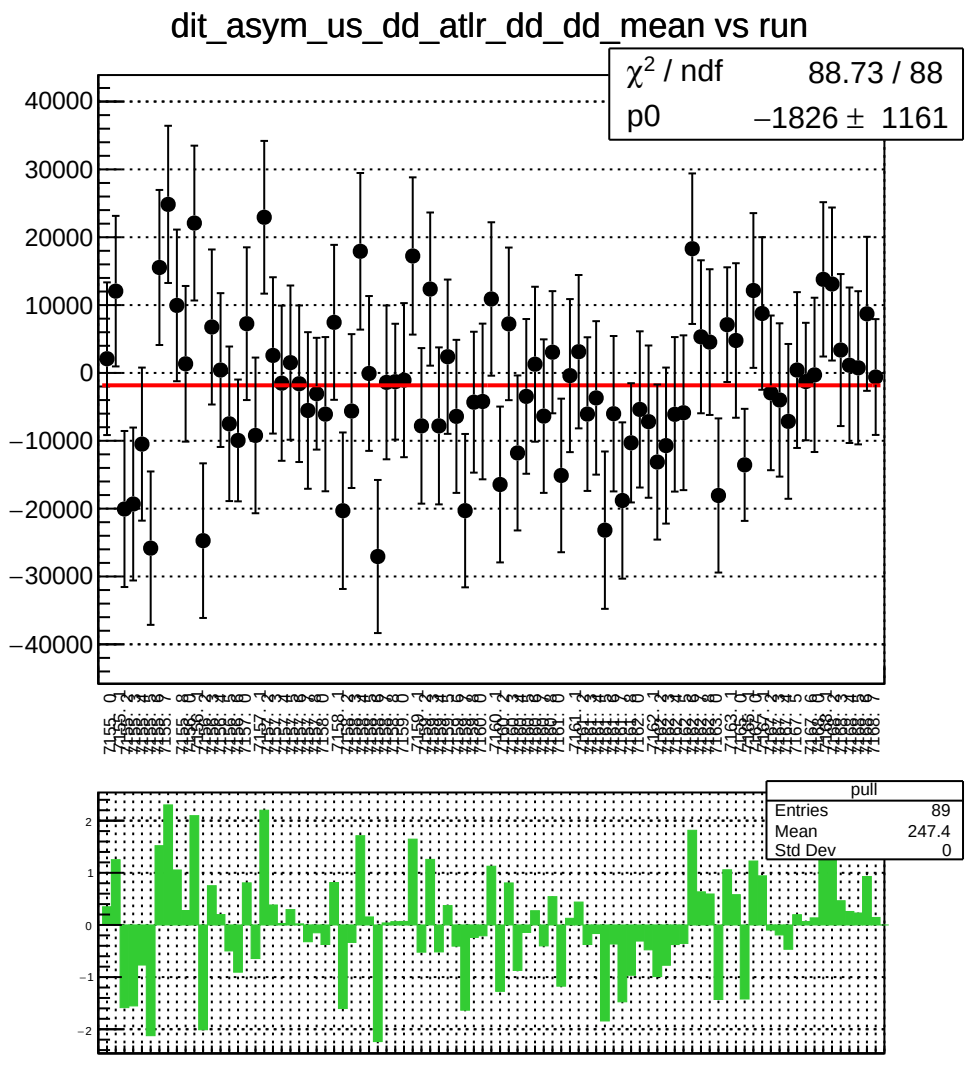

pull1D
Entries 89
Mean 0.004498
Std Dev 0.9996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

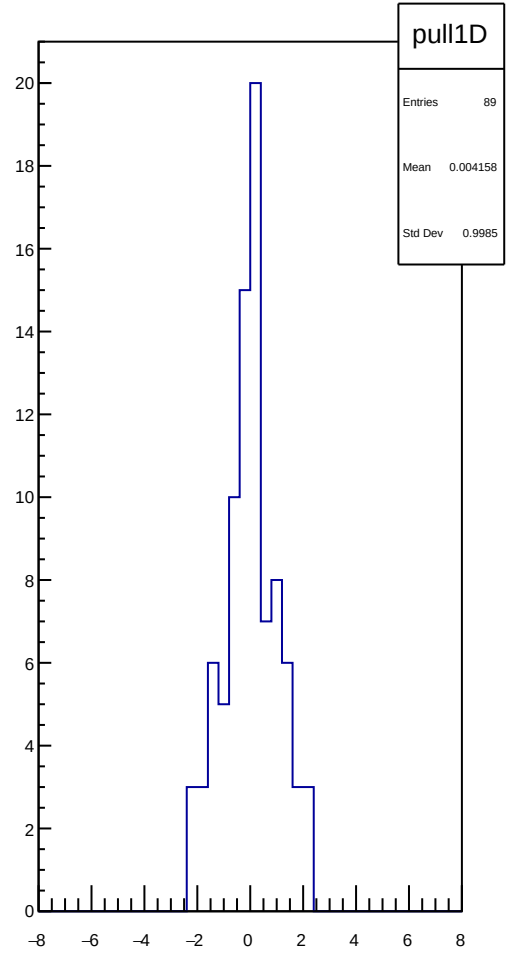

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 137 / 88
p0 1079 ± 0.8201
1110
1100
1090
1080
1070
1060
1050
1040

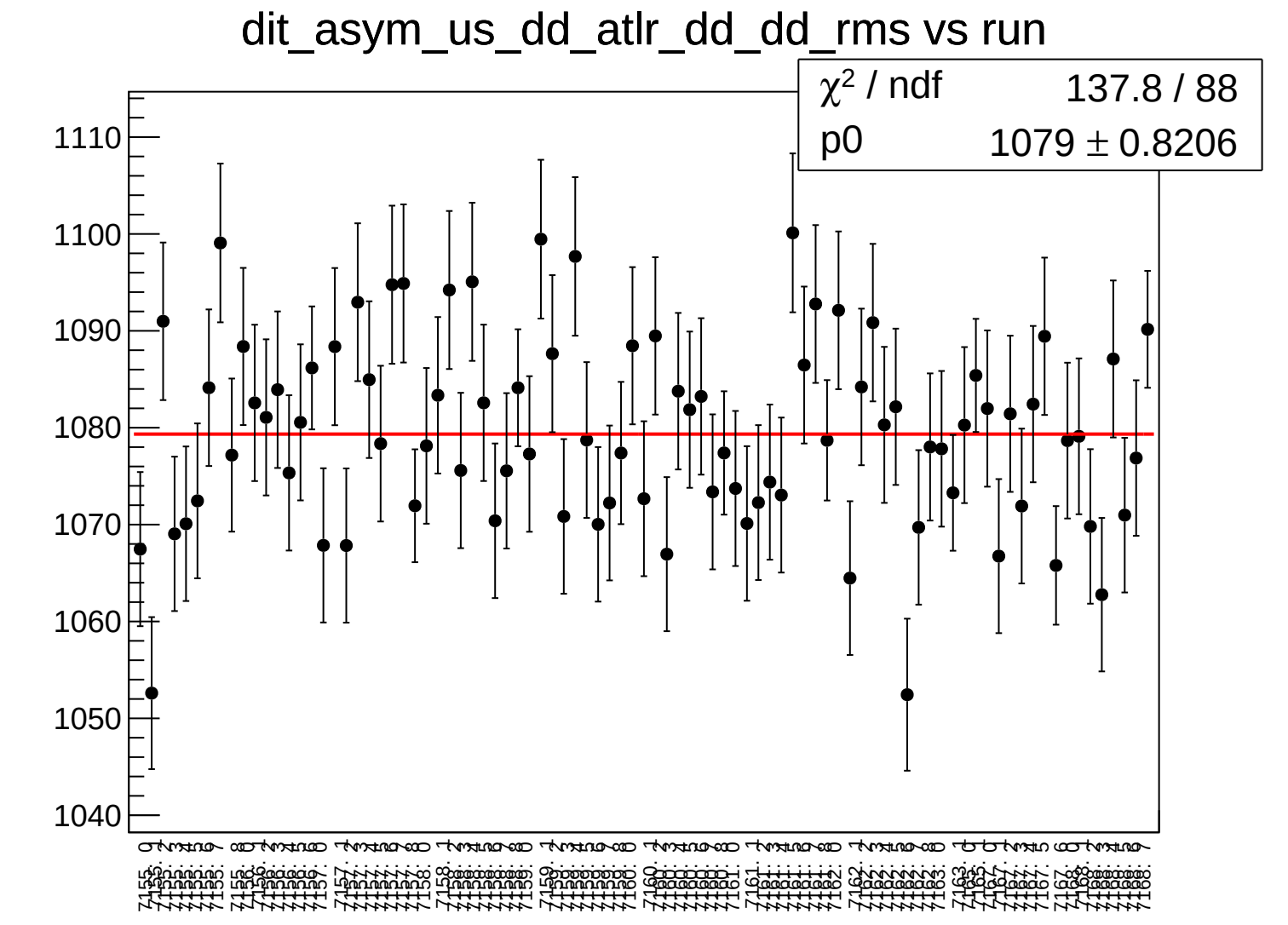

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.63 / 88
p0 373.8 ± 584.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 48.66
Std Dev 77.99
1.5
1
0.5
0
−0.5
−1
−1.5

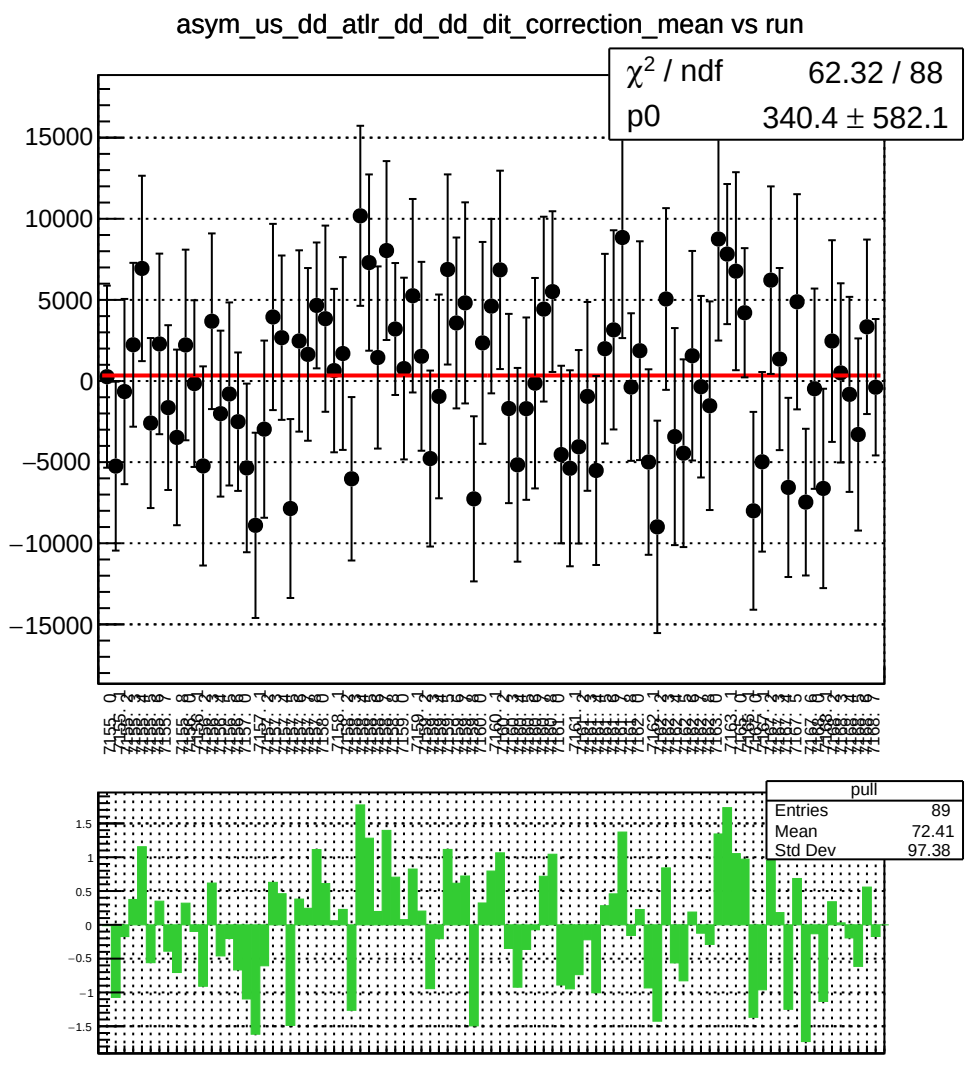

pull1D
Entries 89
Mean −0.01144
Std Dev 0.8388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

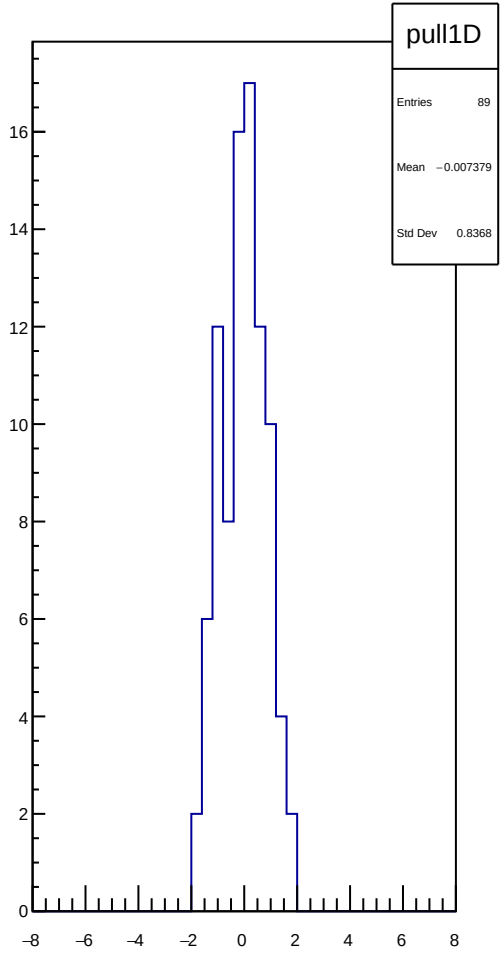

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 9681 / 88
p0 542 ± 0.4132
650
600
550
500
450

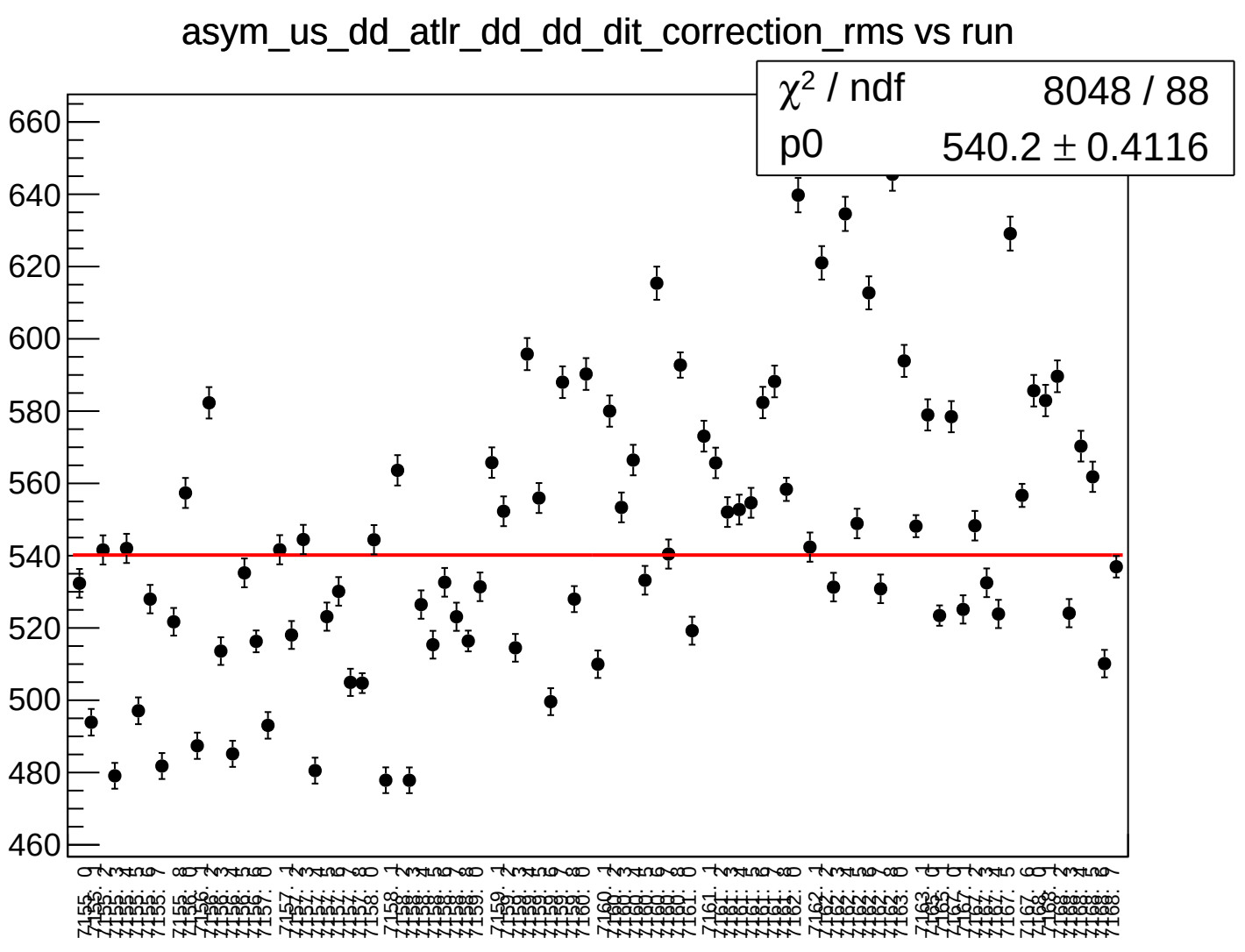

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.73 / 88
p0 −1826 ± 1161
pull
Entries 89
Mean 247.4
Std Dev 0

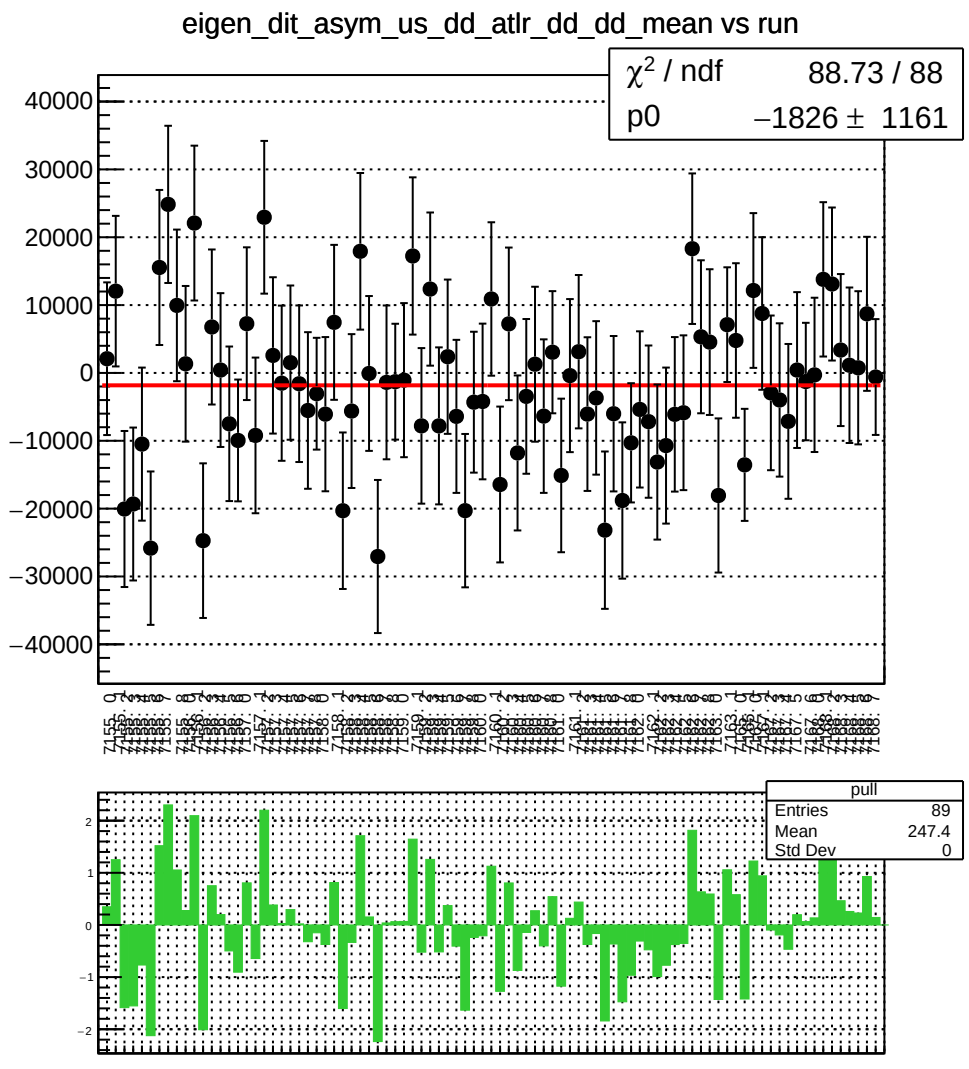

pull1D
Entries 89
Mean 0.004158
Std Dev 0.9985

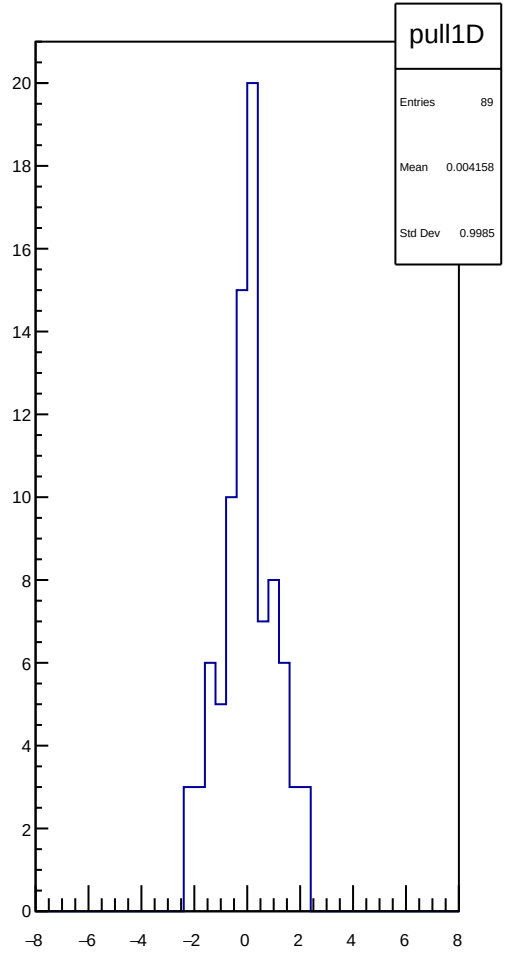

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 137.8 / 88
p0 1079 ± 0.8206
1110
1100
1090
1080
1070
1060
1050
1040

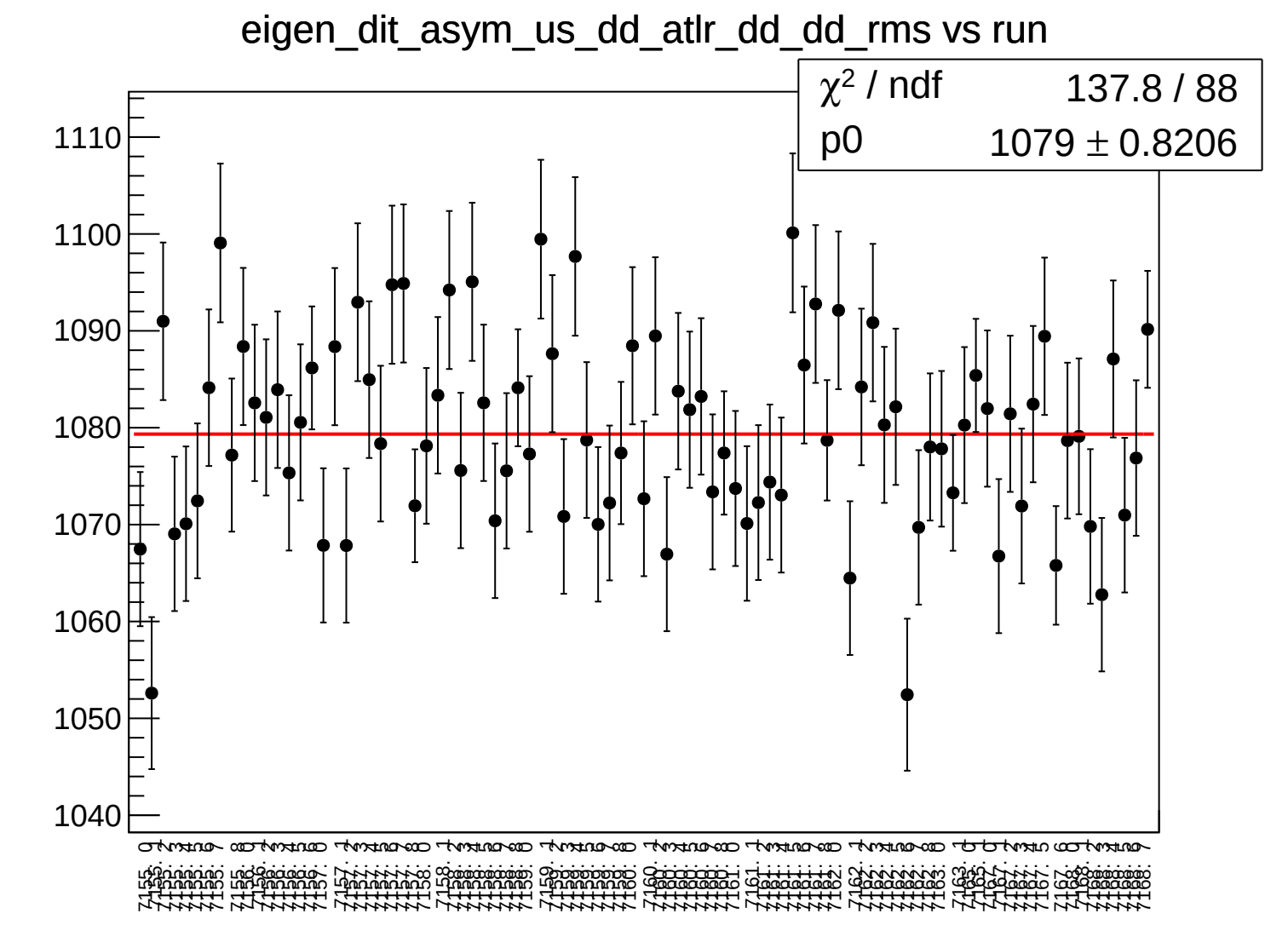

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 62.32 / 88
p0 340.4 ± 582.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 72.41
Std Dev 97.38
1.5
1
0.5
0
−0.5
−1
−1.5

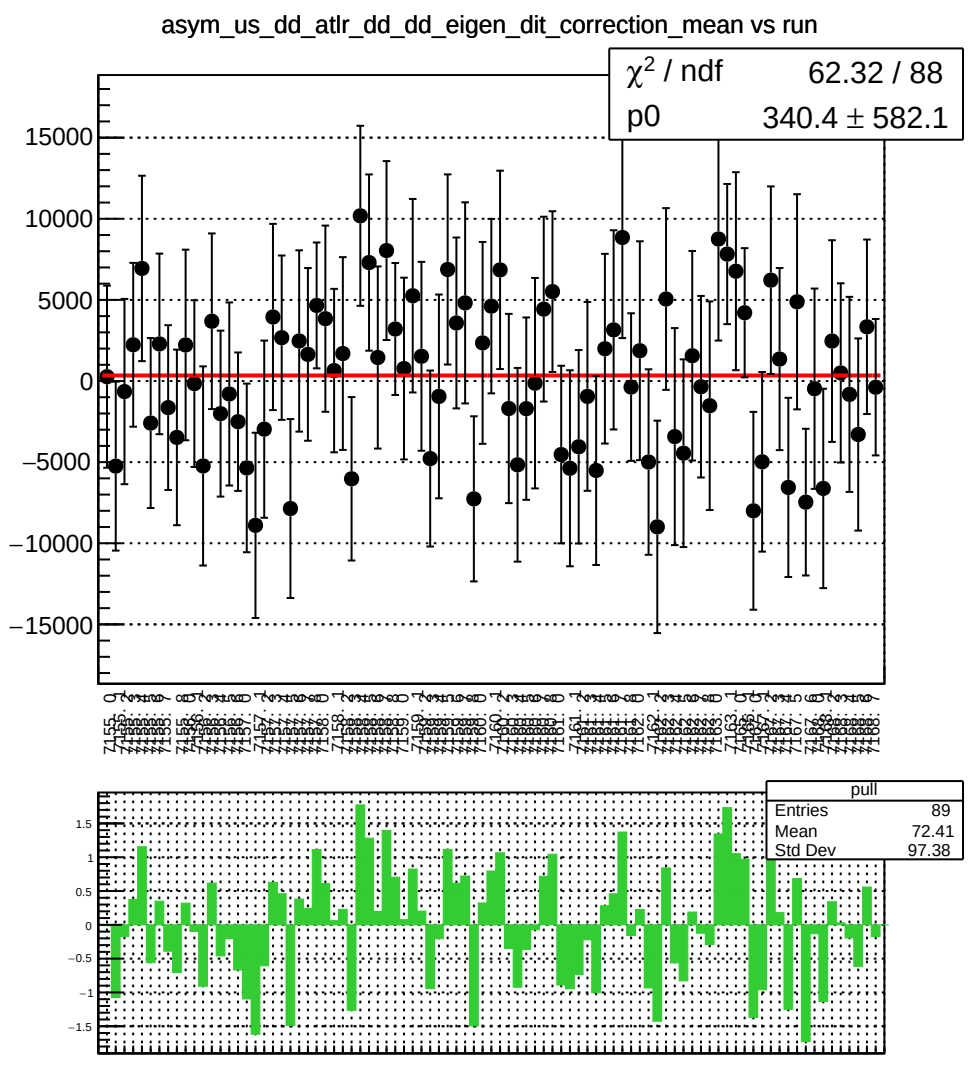

pull1D
Entries 89
Mean −0.007379
Std Dev 0.8368
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

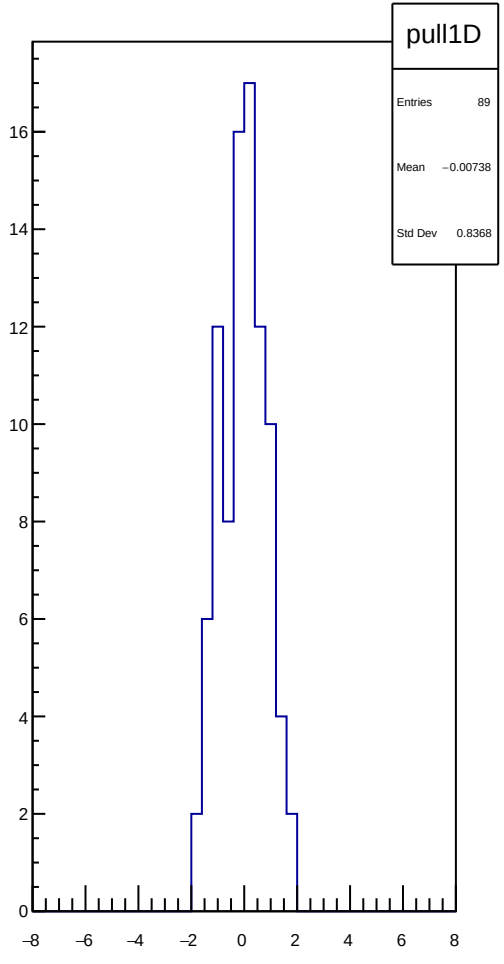

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 8048 / 88
p0 540.2 ± 0.4116
660
640
620
600
580
560
540
520
500
480
460

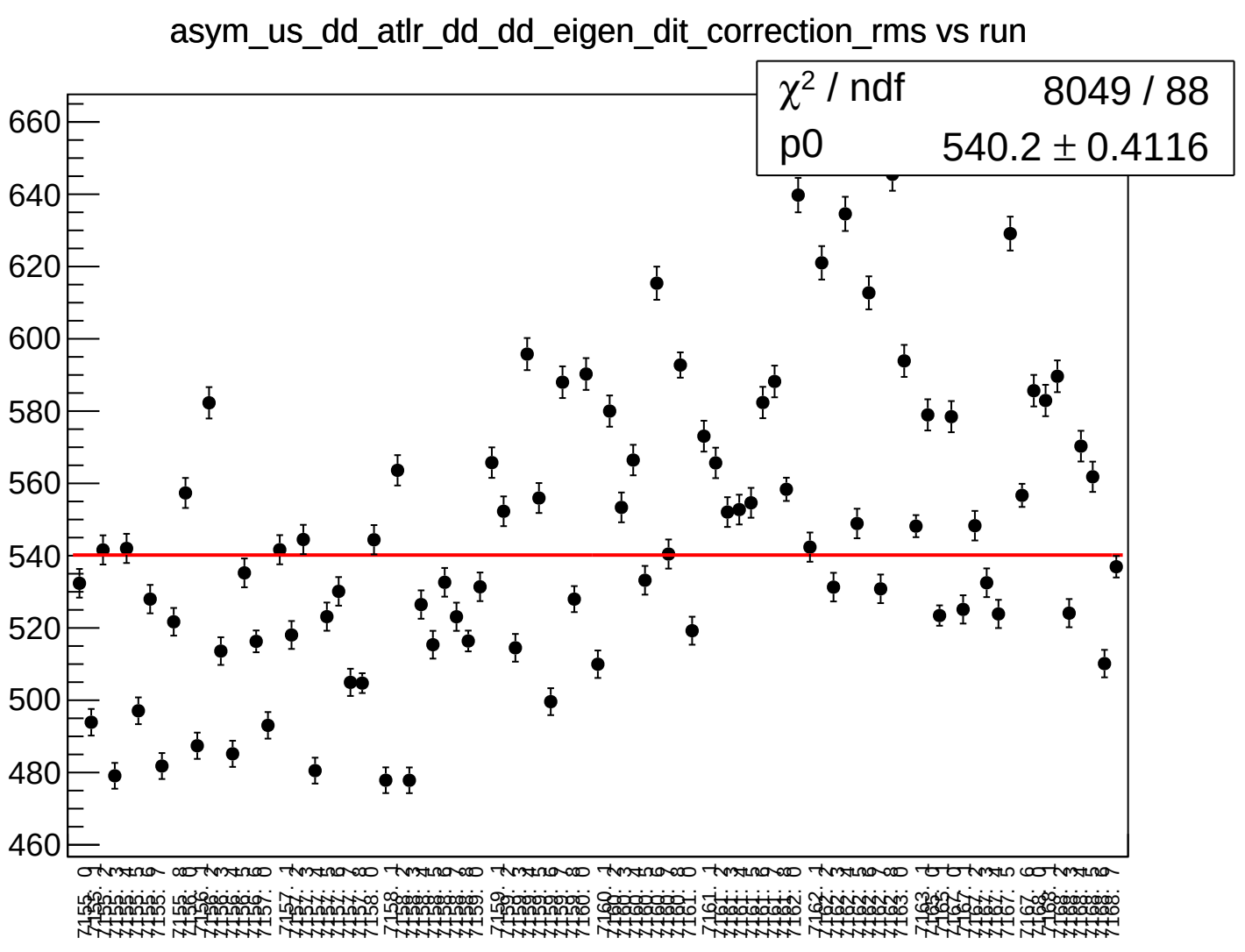

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 88.73 / 88
p0 −1826 ± 1161
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 247.4
Std Dev 0
2
1
0
−1
−2

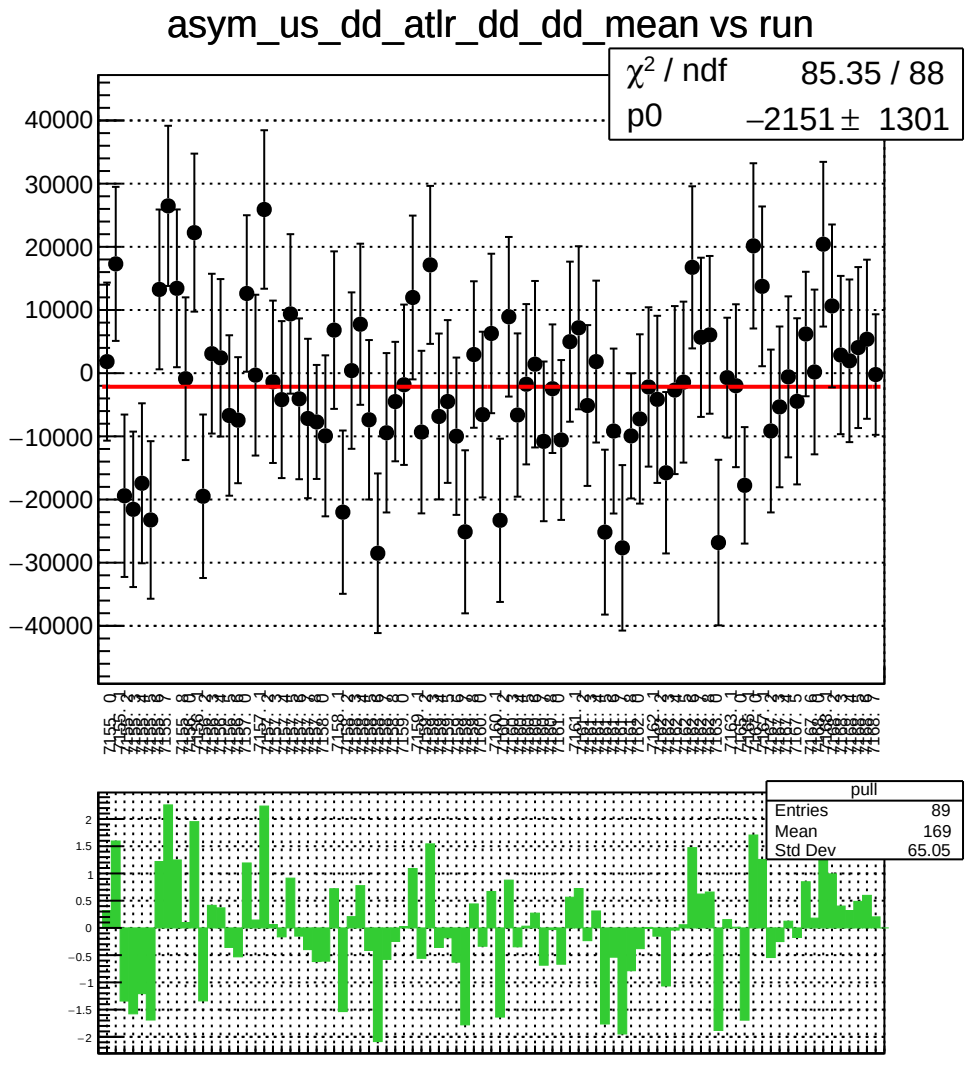

pull1D
Entries 89
Mean 0.004158
Std Dev 0.9985
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

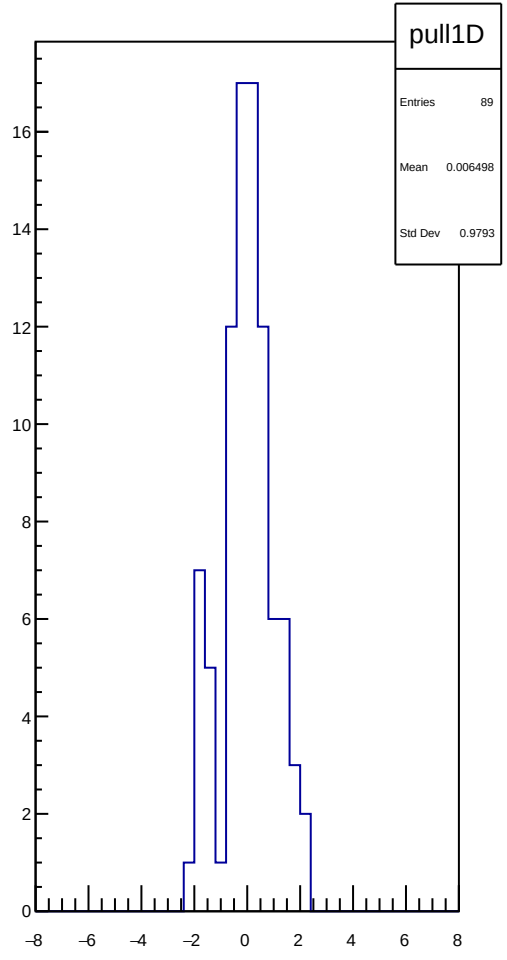

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 137.8 / 88
p0 1079 ± 0.8206
1110
1100
1090
1080
1070
1060
1050
1040

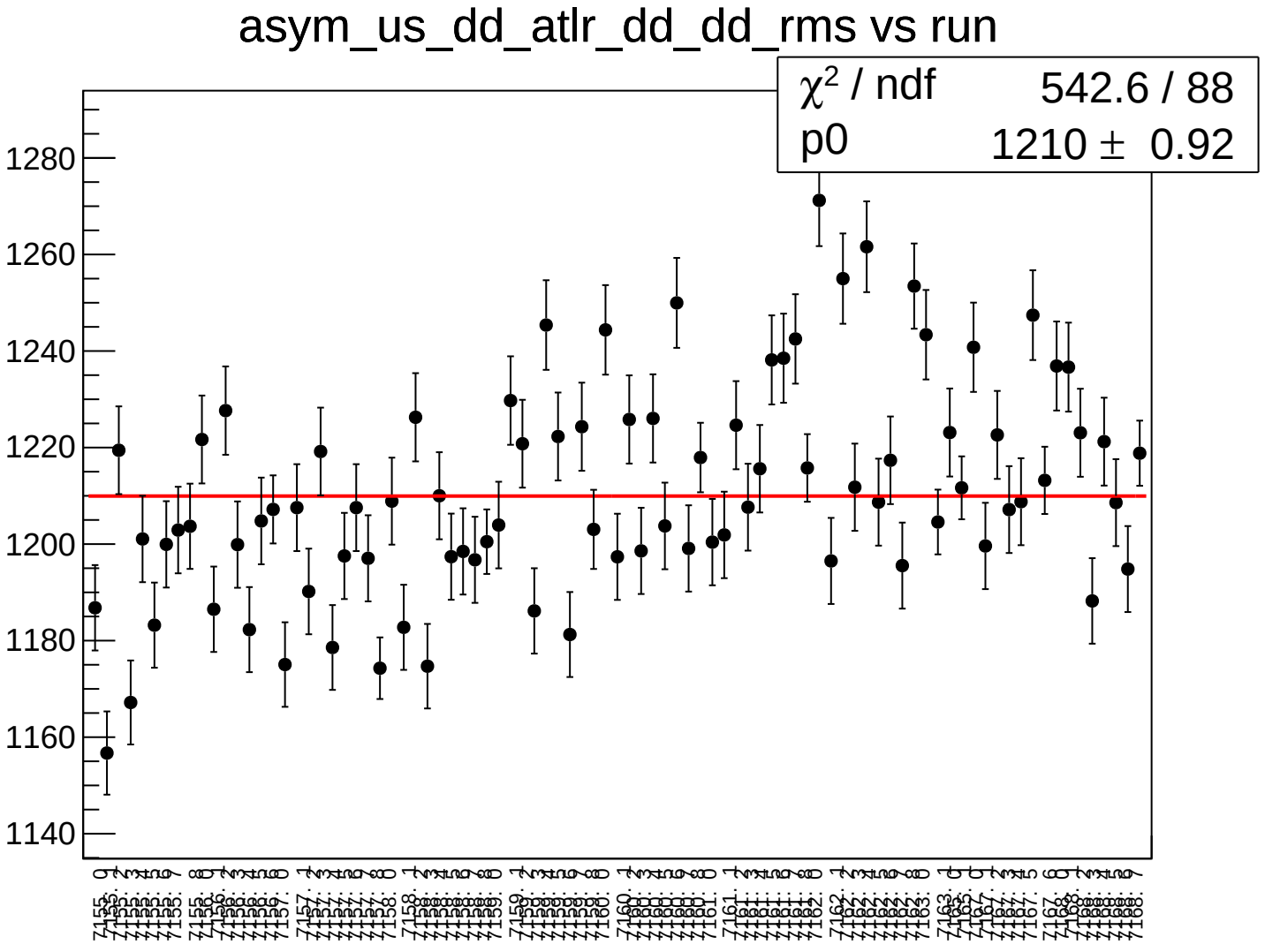

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.32 / 88
p0 340.4 ± 582.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 72.41
Std Dev 97.38
1.5
1
0.5
0
−0.5
−1
−1.5

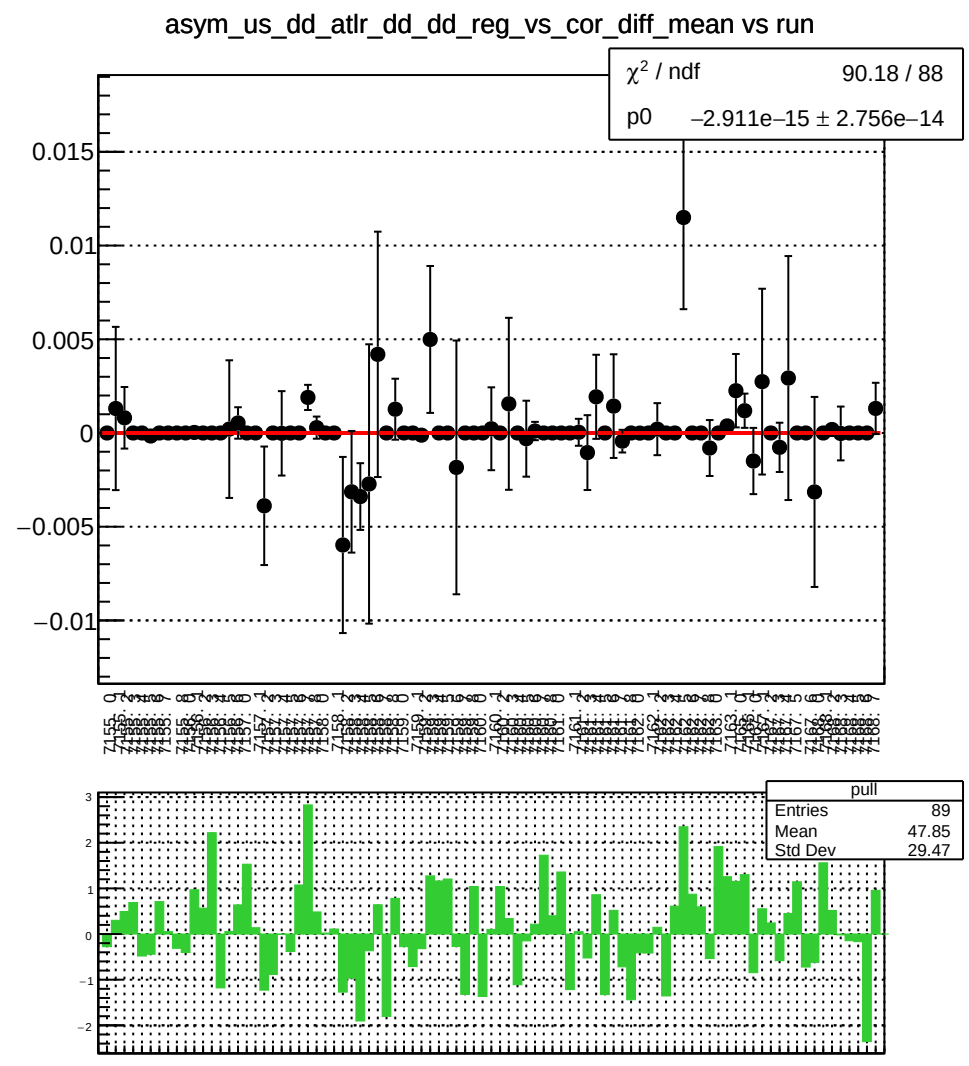

pull1D
Entries 89
Mean −0.00738
Std Dev 0.8368
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

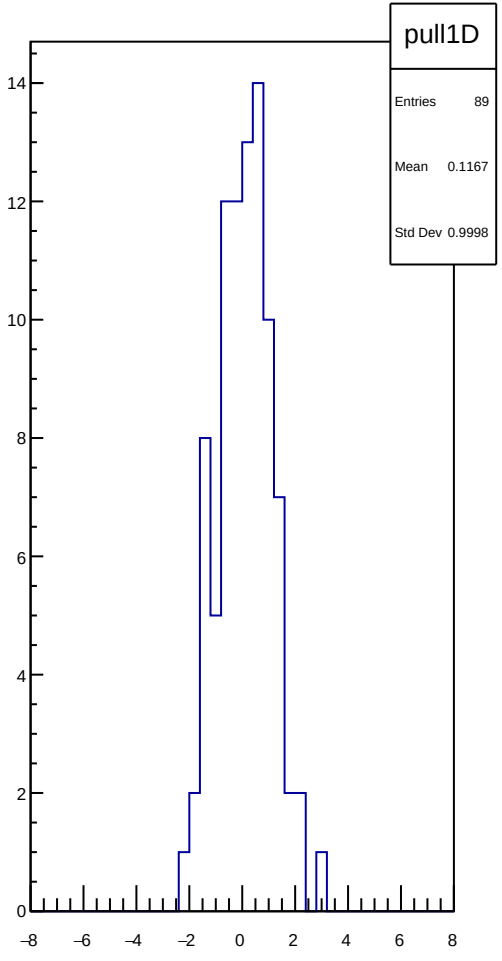

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8049 / 88
p0 540.2 ± 0.4116
660
640
620
600
580
560
540
520
500
480
460

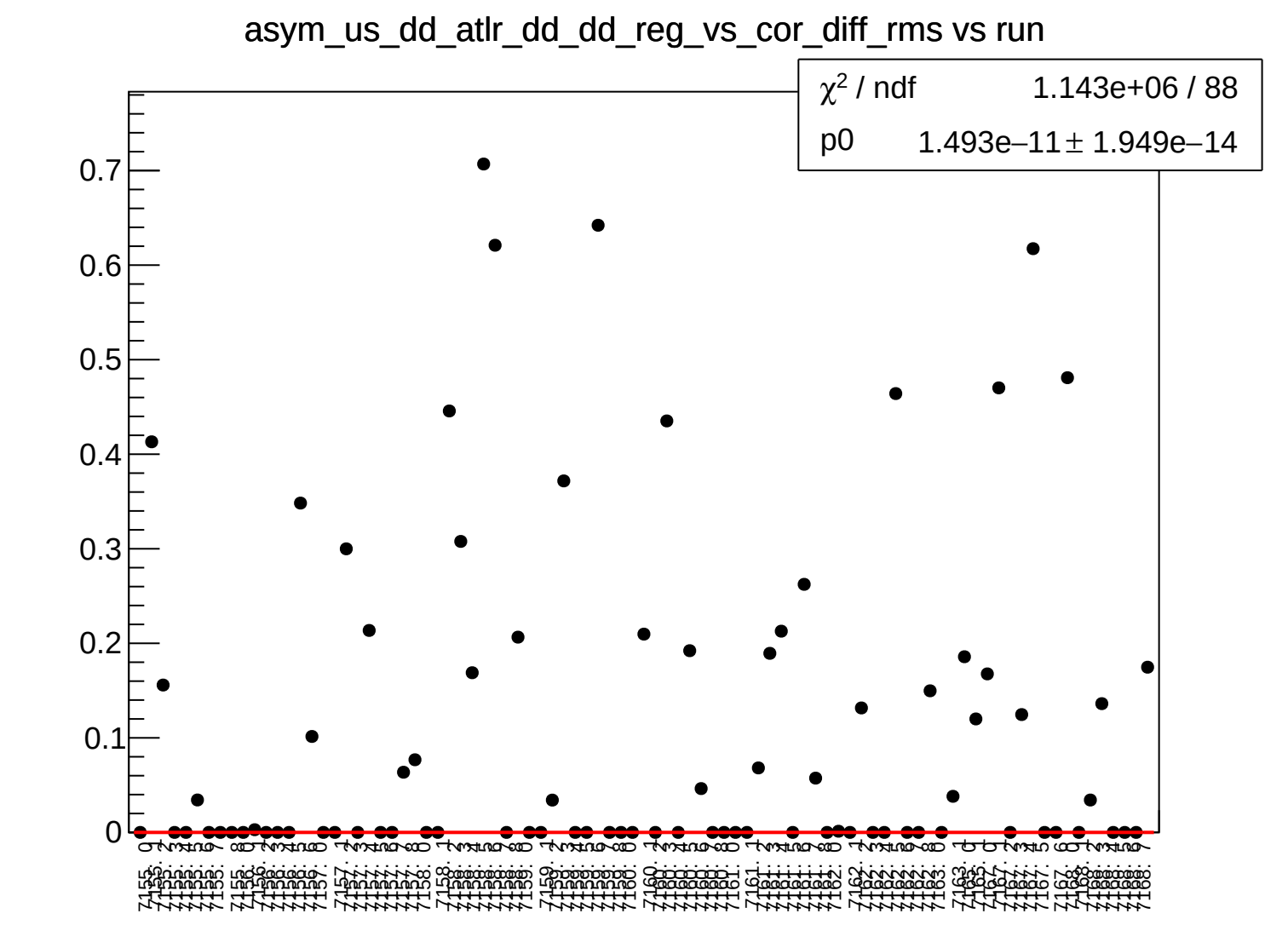

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 85.35 / 88
p0 −2151 ± 1301
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean 169
Std Dev 65.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

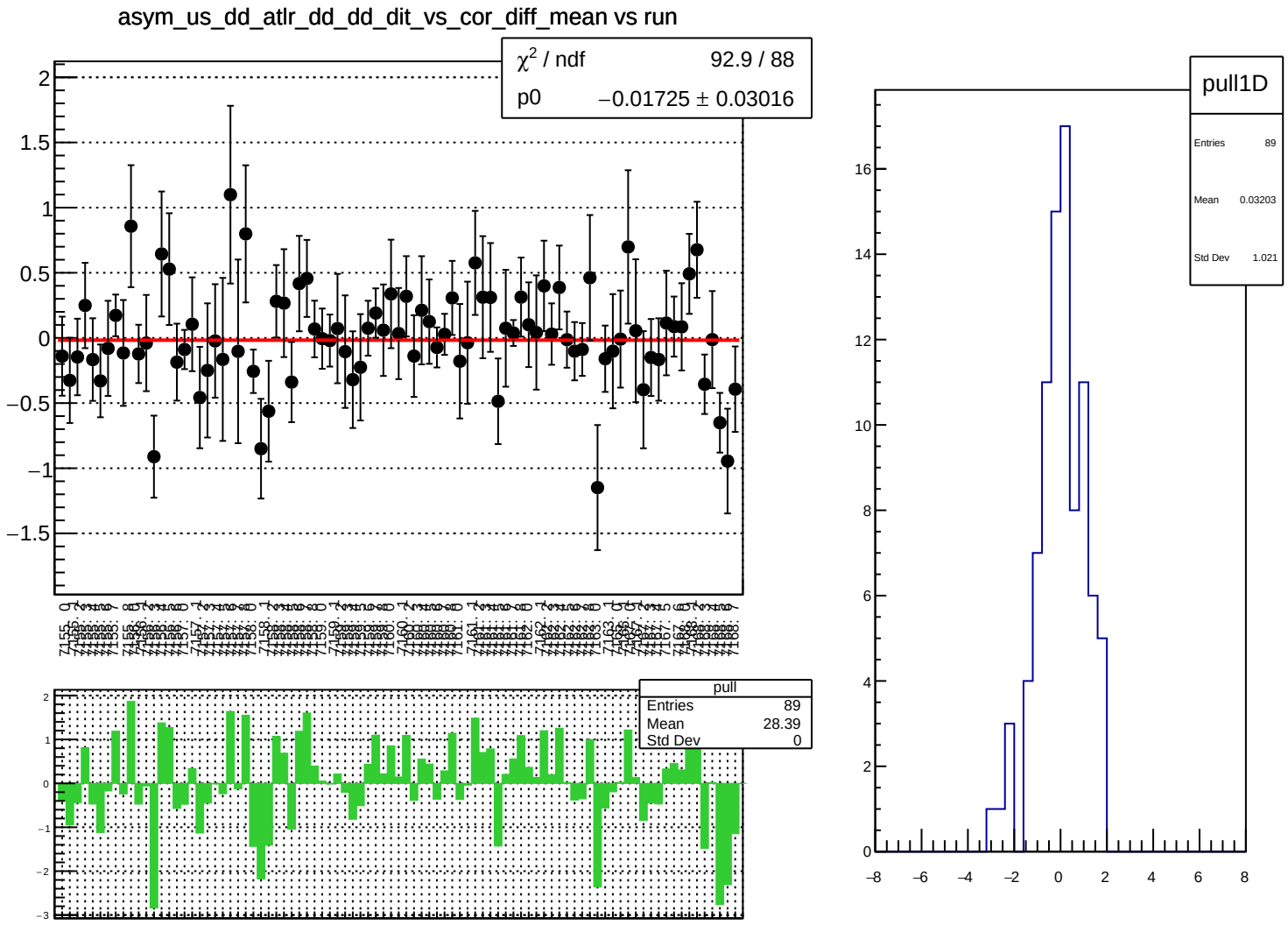

pull1D
Entries 89
Mean 0.006498
Std Dev 0.9793
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

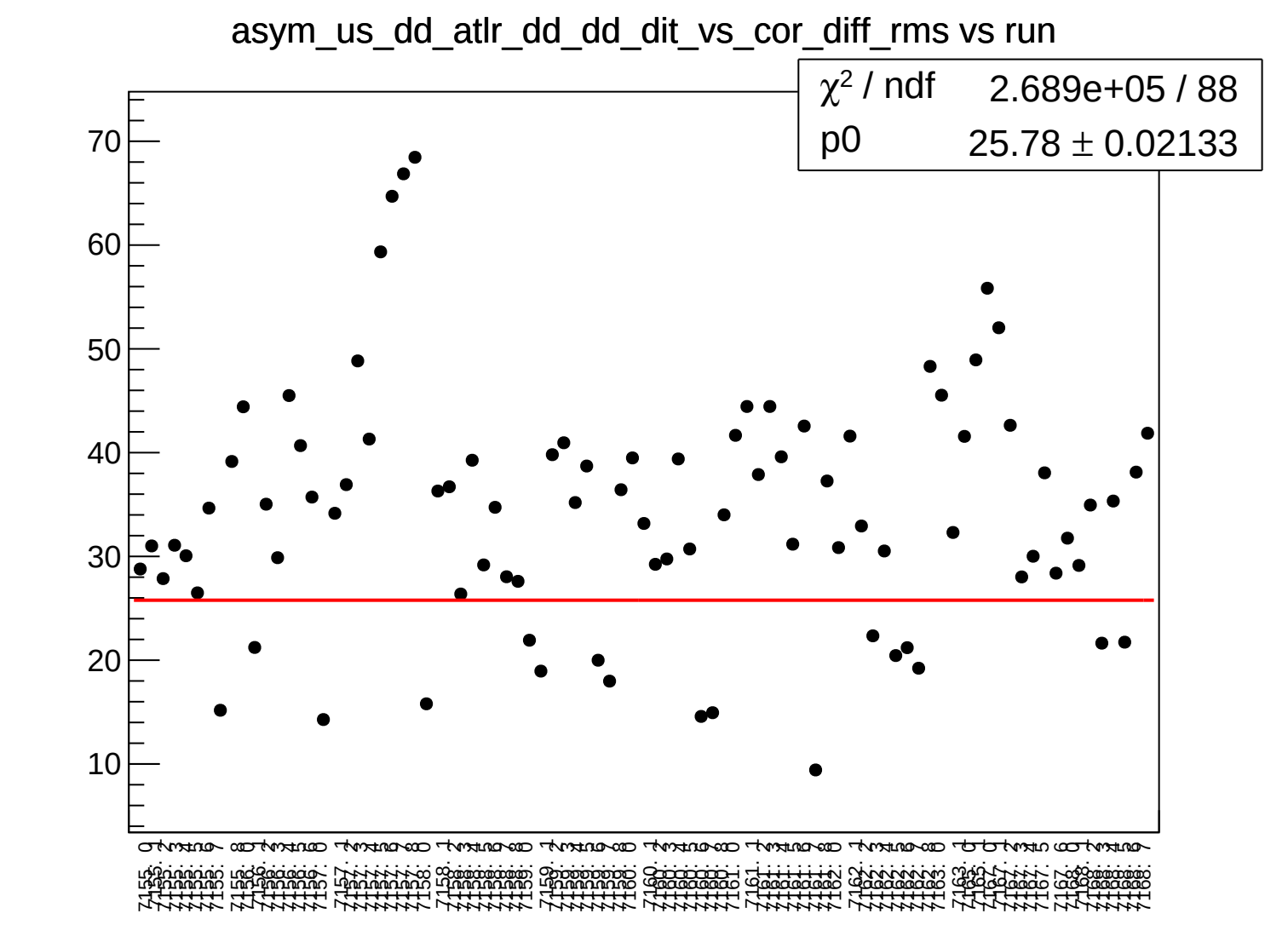

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 542.6 / 88
p0 1210 ± 0.92
1280
1260
1240
1220
1200
1180
1160
1140

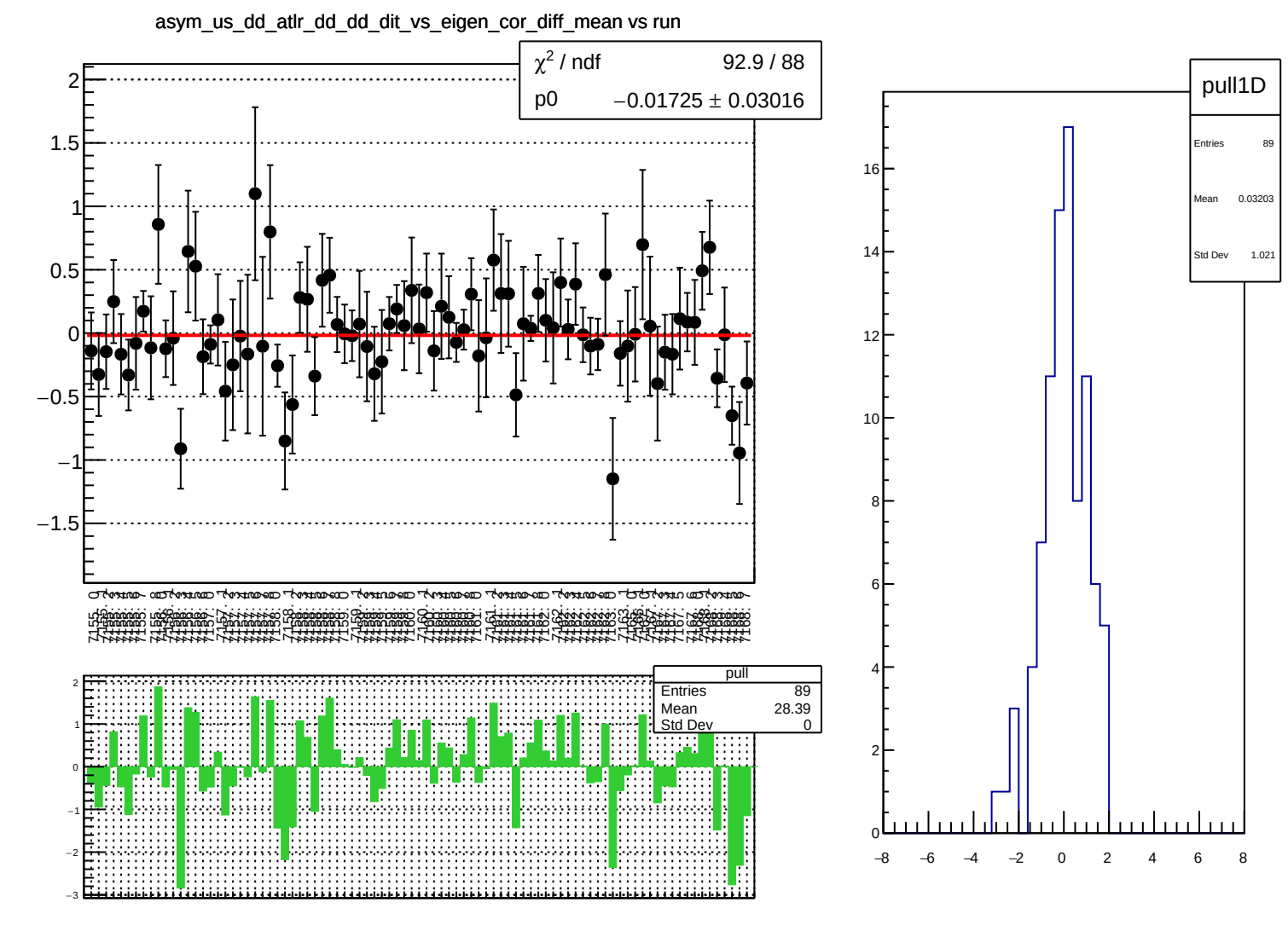

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.18 / 88
p0 −2.911e−15 ± 2.756e−14
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 89
Mean 47.85
Std Dev 29.47
3
2
1
0
−1
−2

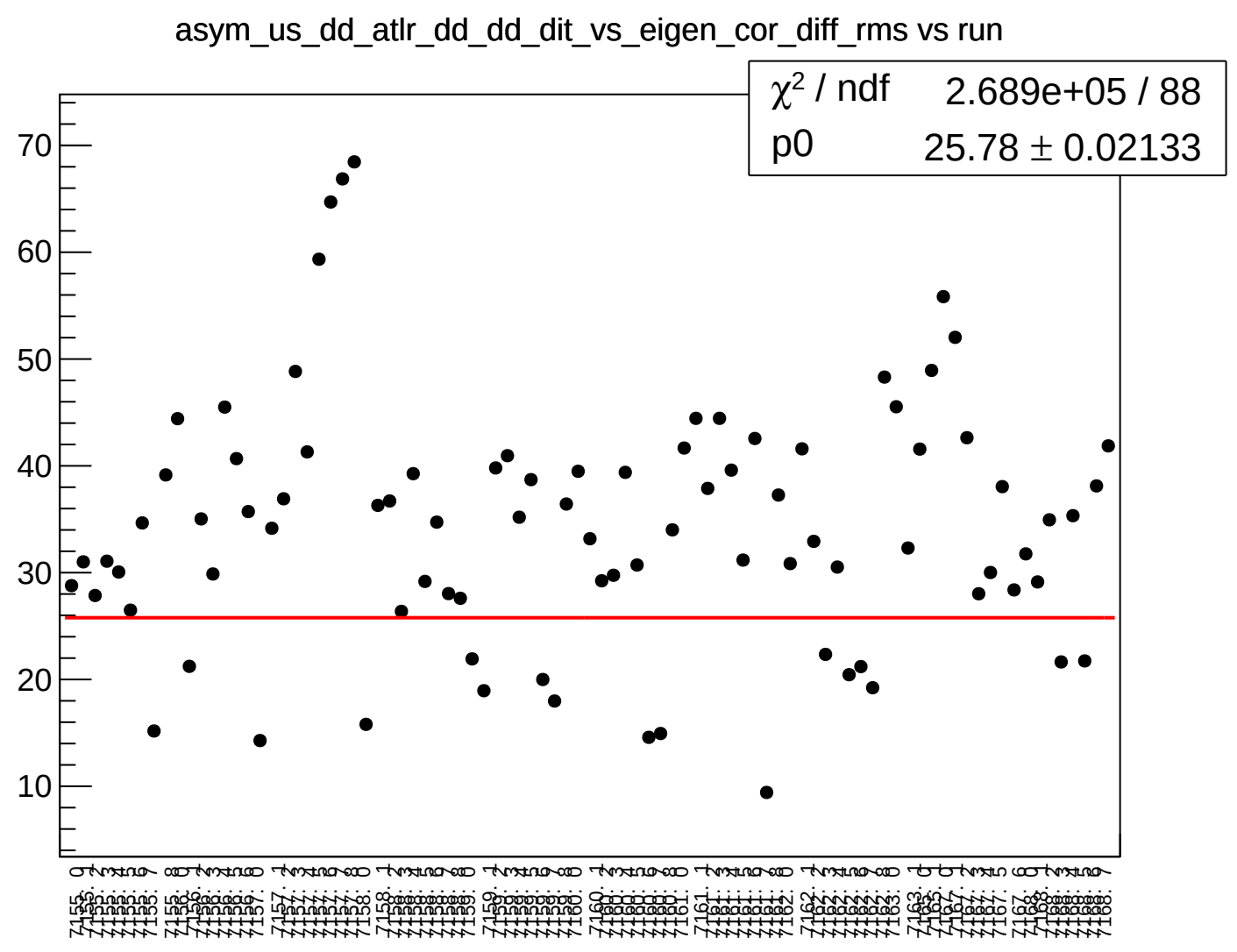

pull1D
Entries 89
Mean 0.1167
Std Dev 0.9998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

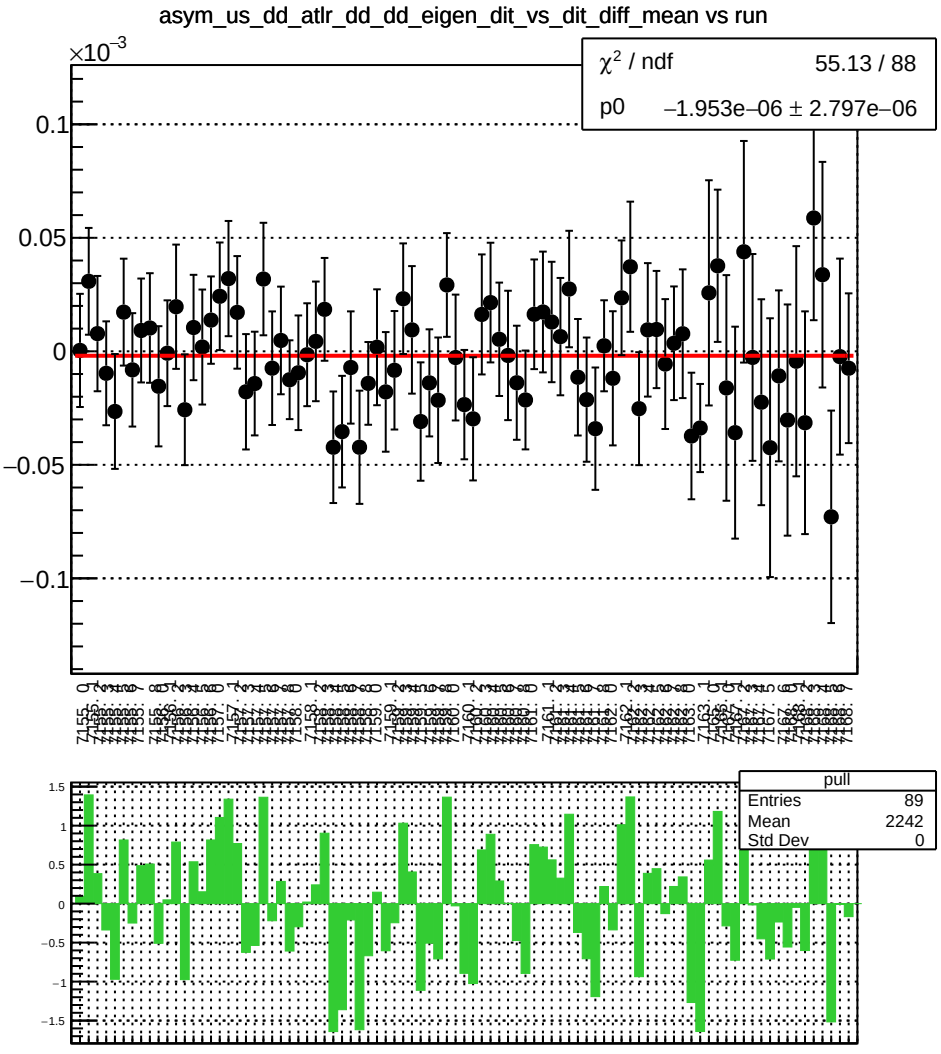

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.143e+06 / 88
p0 1.493e−11 ± 1.949e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

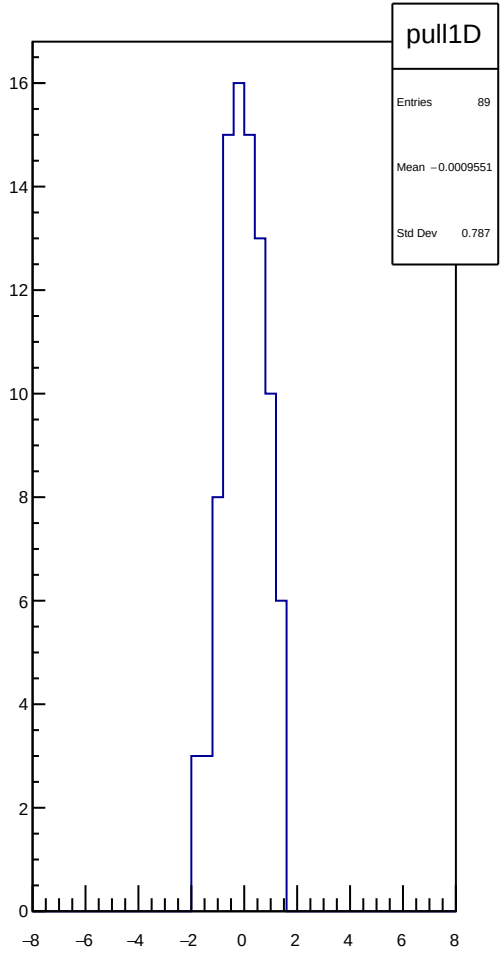

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.9 / 88
p0 −0.01725 ± 0.03016
pull
Entries 89
Mean 28.39
Std Dev 0
pull1D
Entries 89
Mean 0.03203
Std Dev 1.021

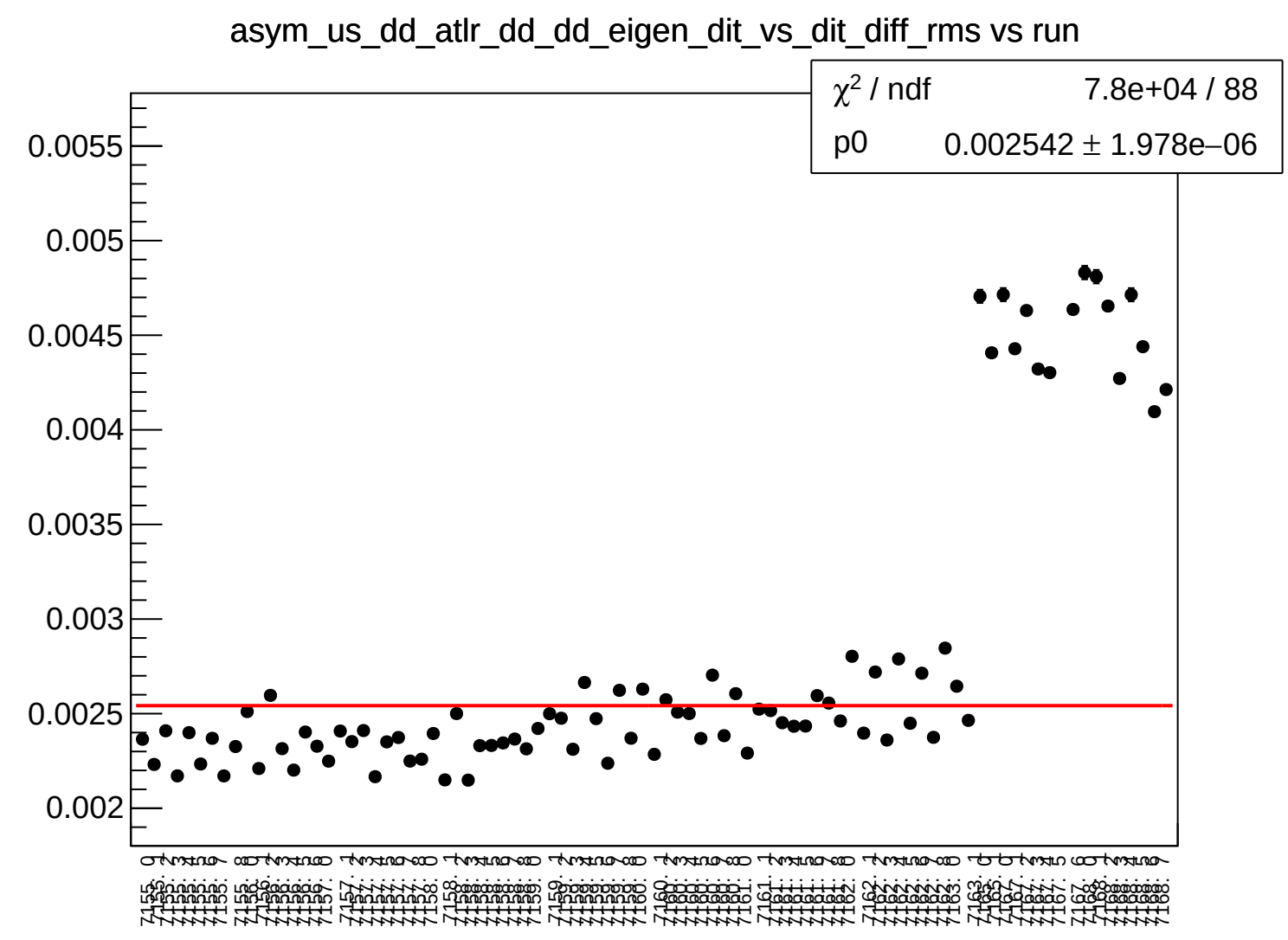

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.689e+05 / 88
p0 25.78 ± 0.02133
70
60
50
40
30
20
10

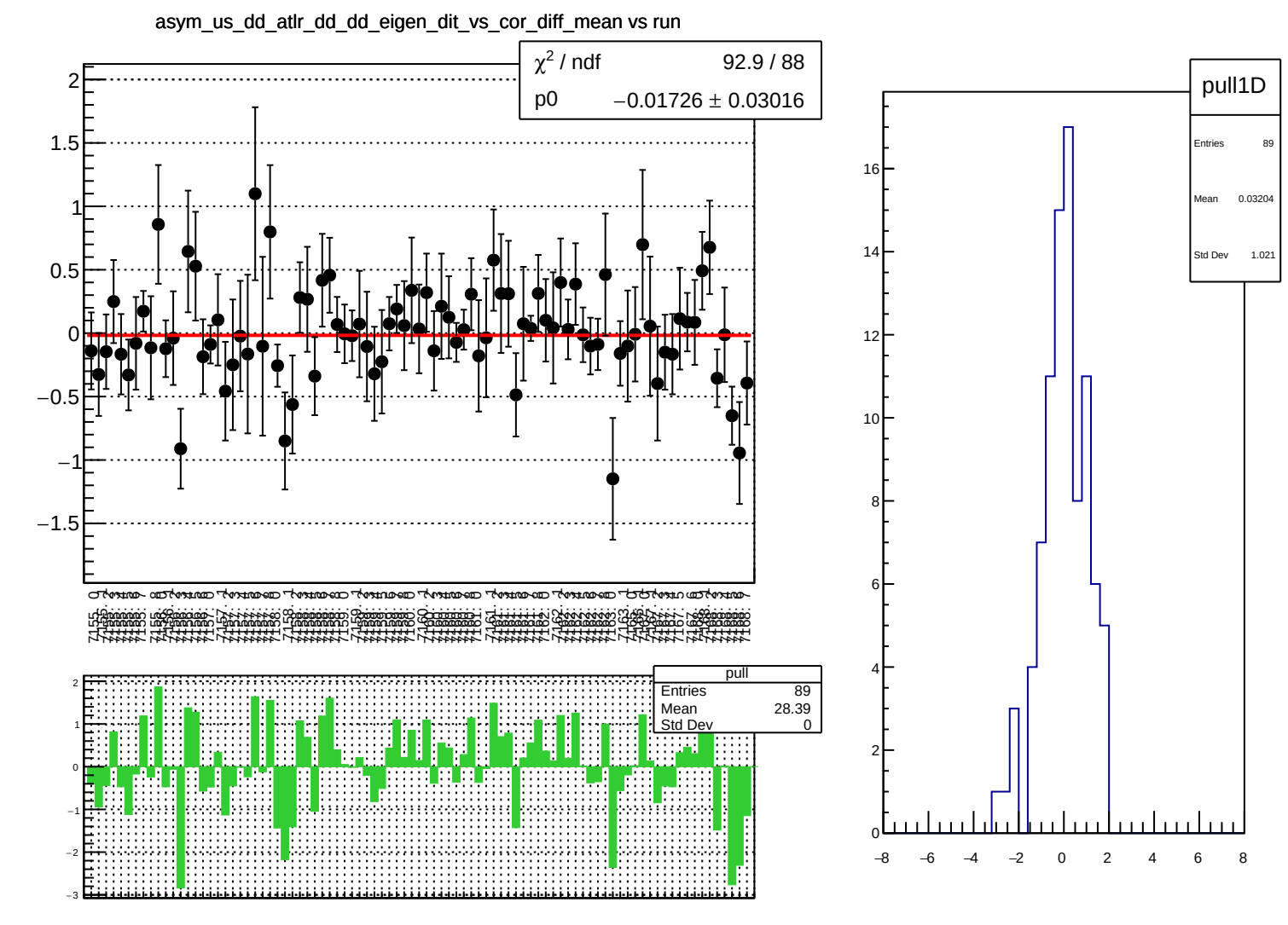

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.9 / 88
p0 −0.01725 ± 0.03016
pull
Entries 89
Mean 28.39
Std Dev 0
pull1D
Entries 89
Mean 0.03203
Std Dev 1.021

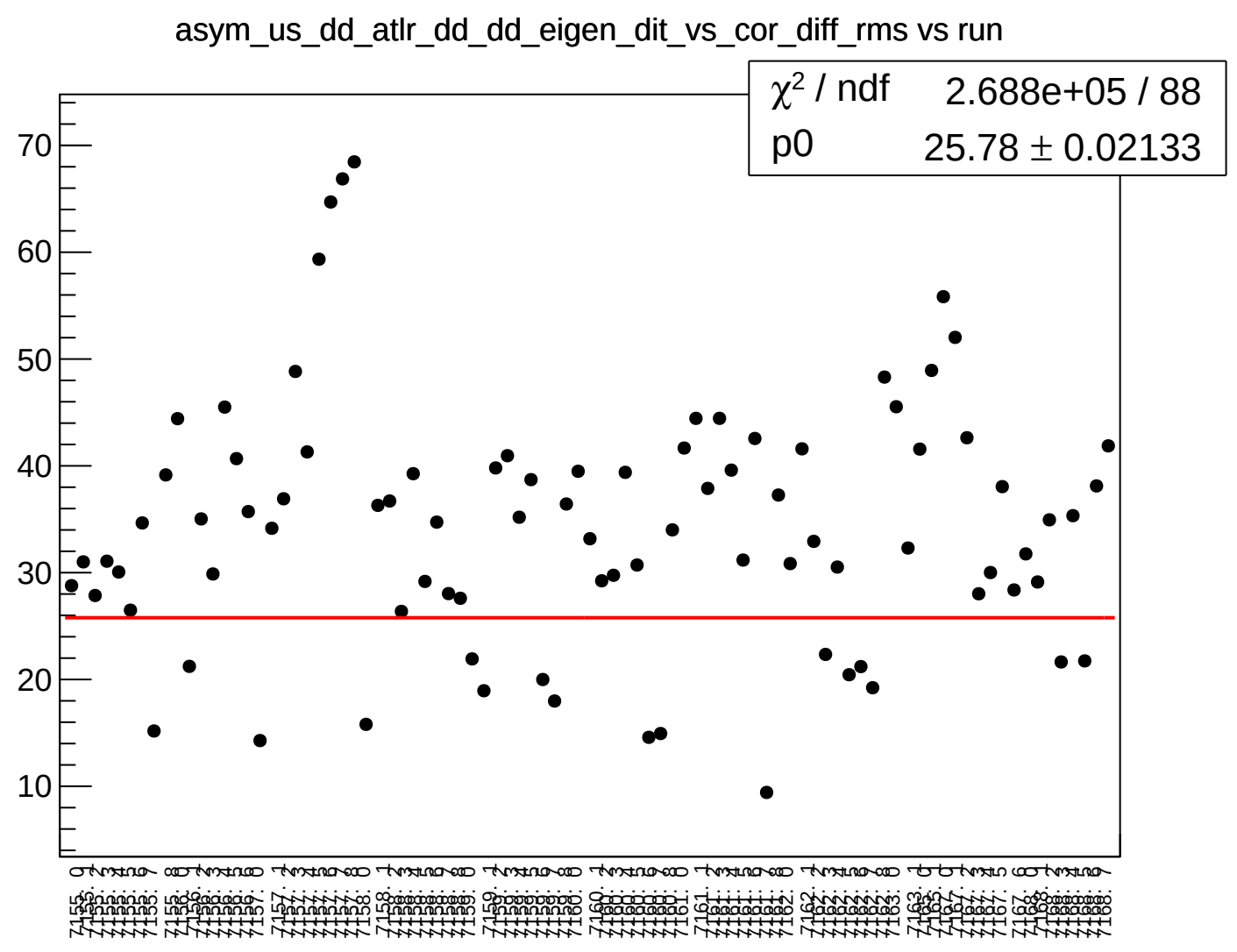

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.689e+05 / 88
p0 25.78 ± 0.02133
70
60
50
40
30
20
10

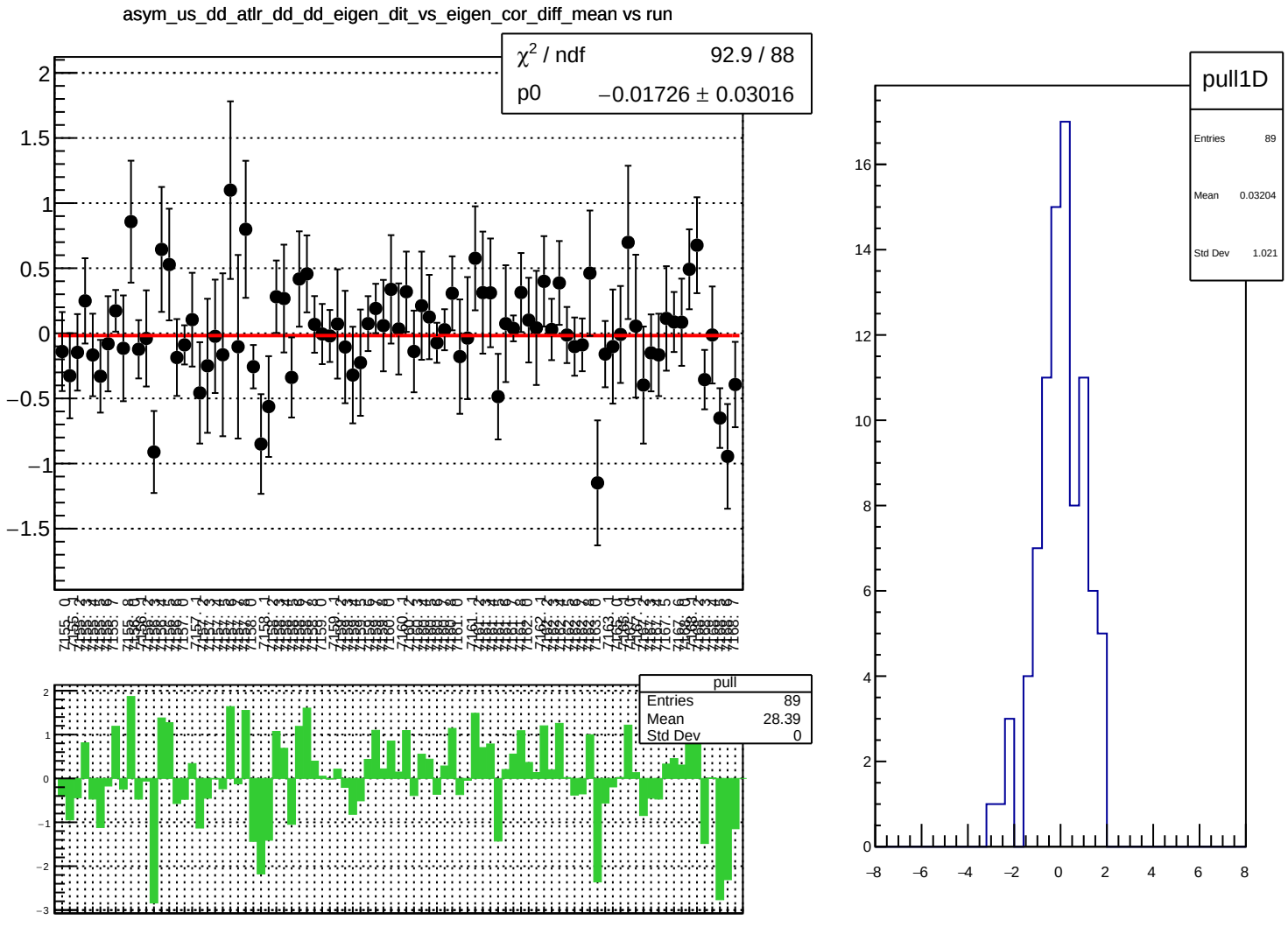

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.13 / 88
p0 −1.953e−06 ± 2.797e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 2242
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

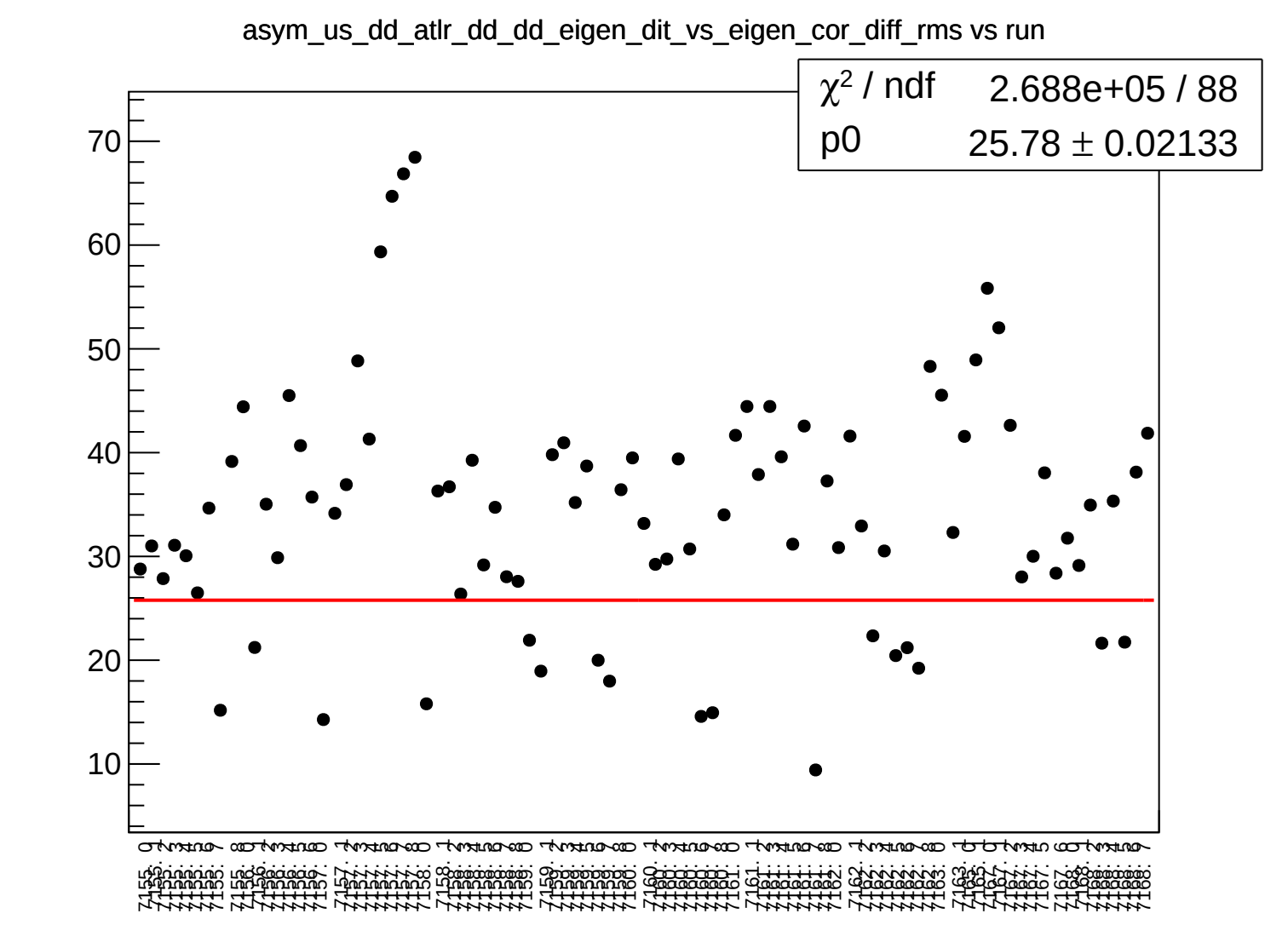

pull1D
Entries 89
Mean −0.0009551
Std Dev 0.787
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

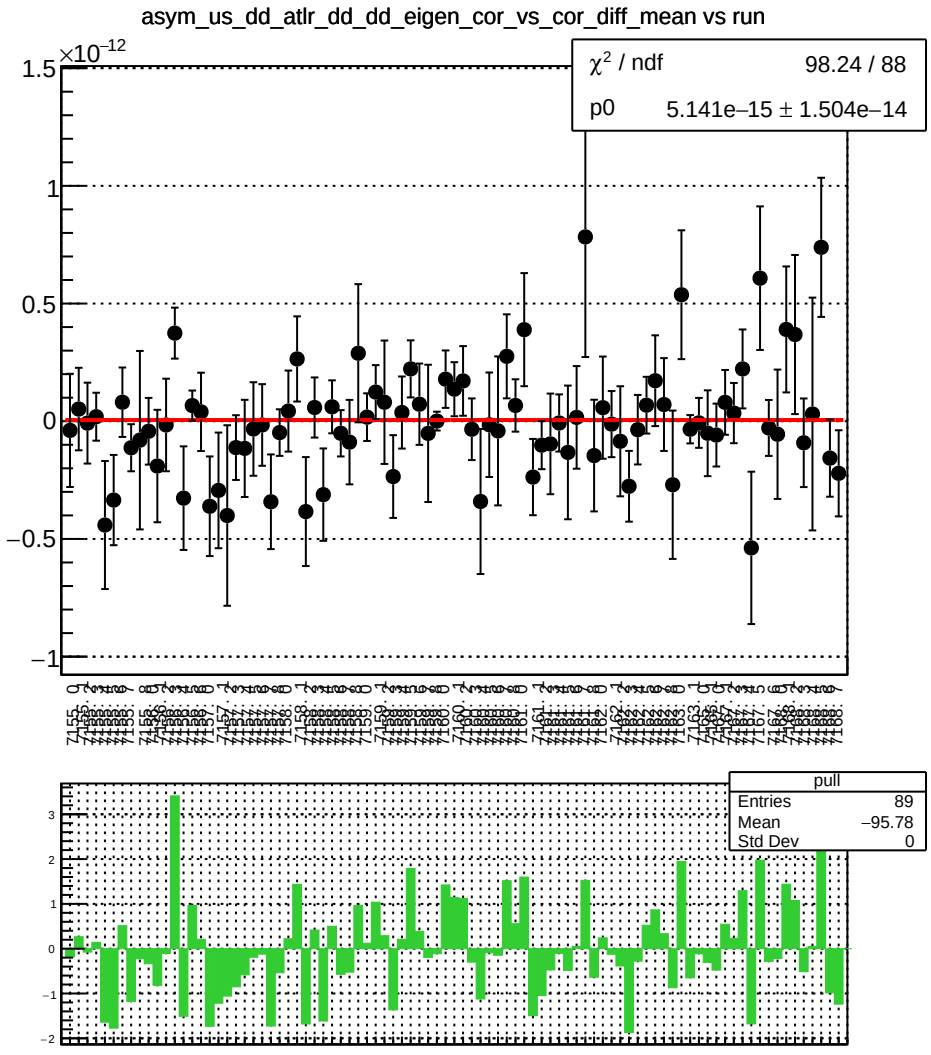

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.8e+04 / 88
p0 0.002542 ± 1.978e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

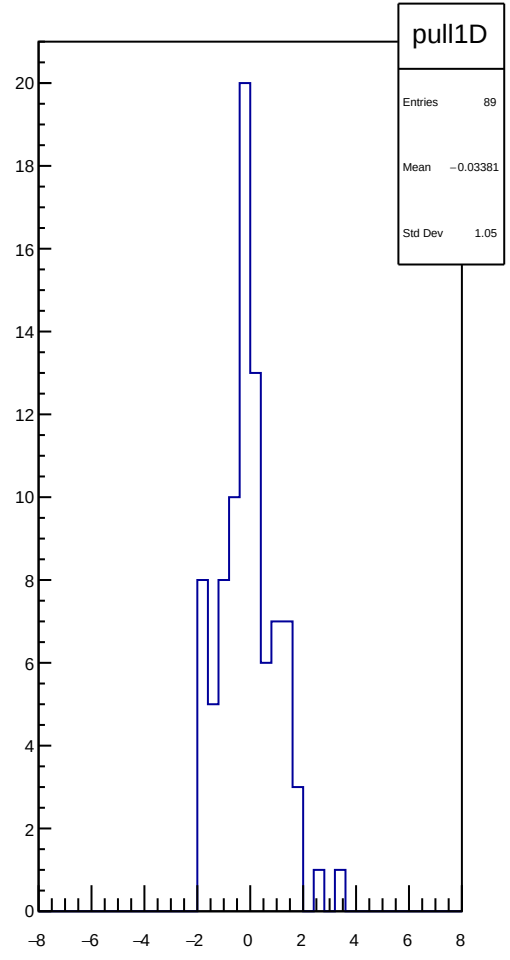

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.9 / 88
p0 −0.01726 ± 0.03016
pull
Entries 89
Mean 28.39
Std Dev 0
pull1D
Entries 89
Mean 0.03204
Std Dev 1.021

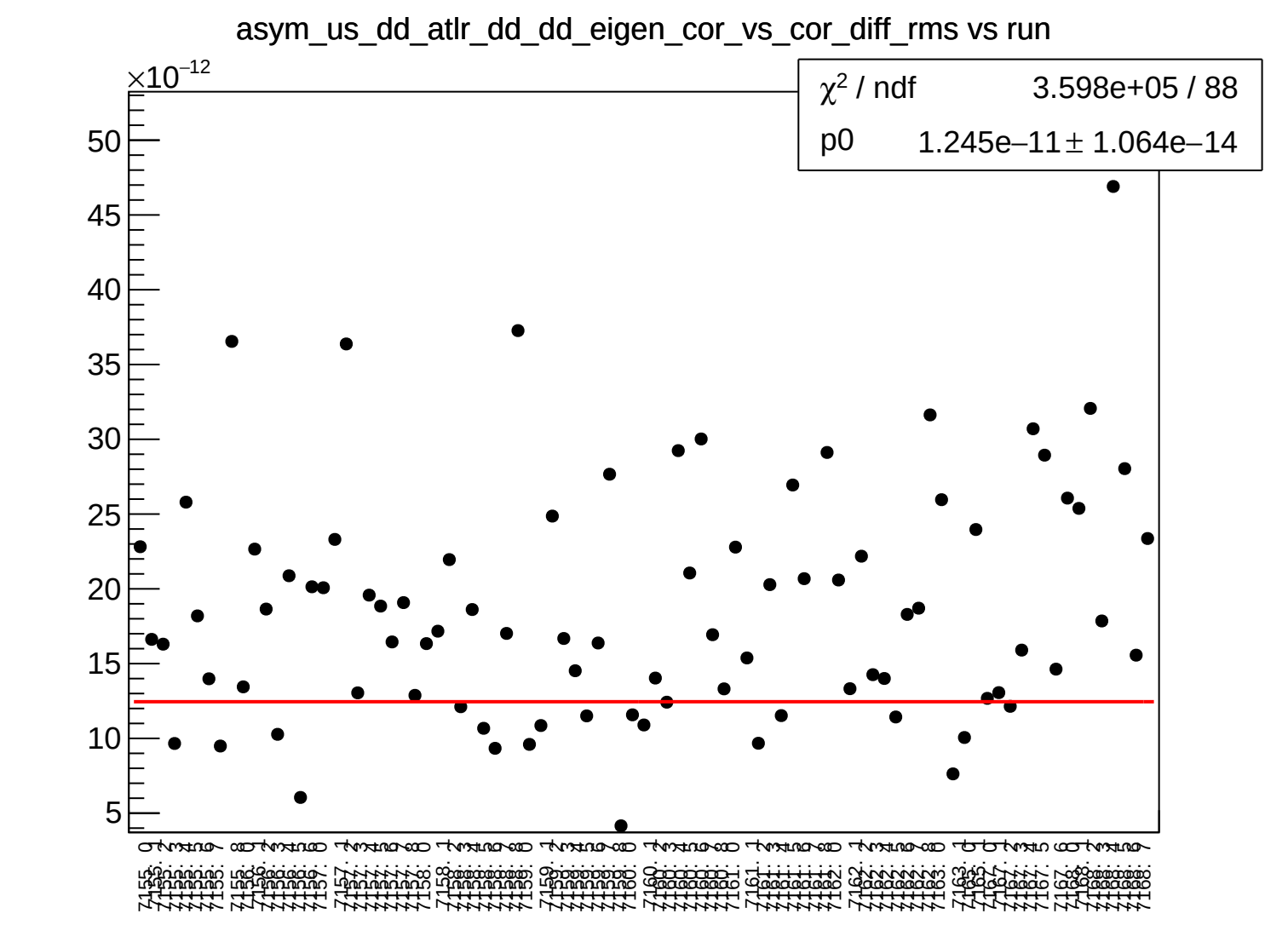

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.688e+05 / 88
p0 25.78 ± 0.02133
70
60
50
40
30
20
10

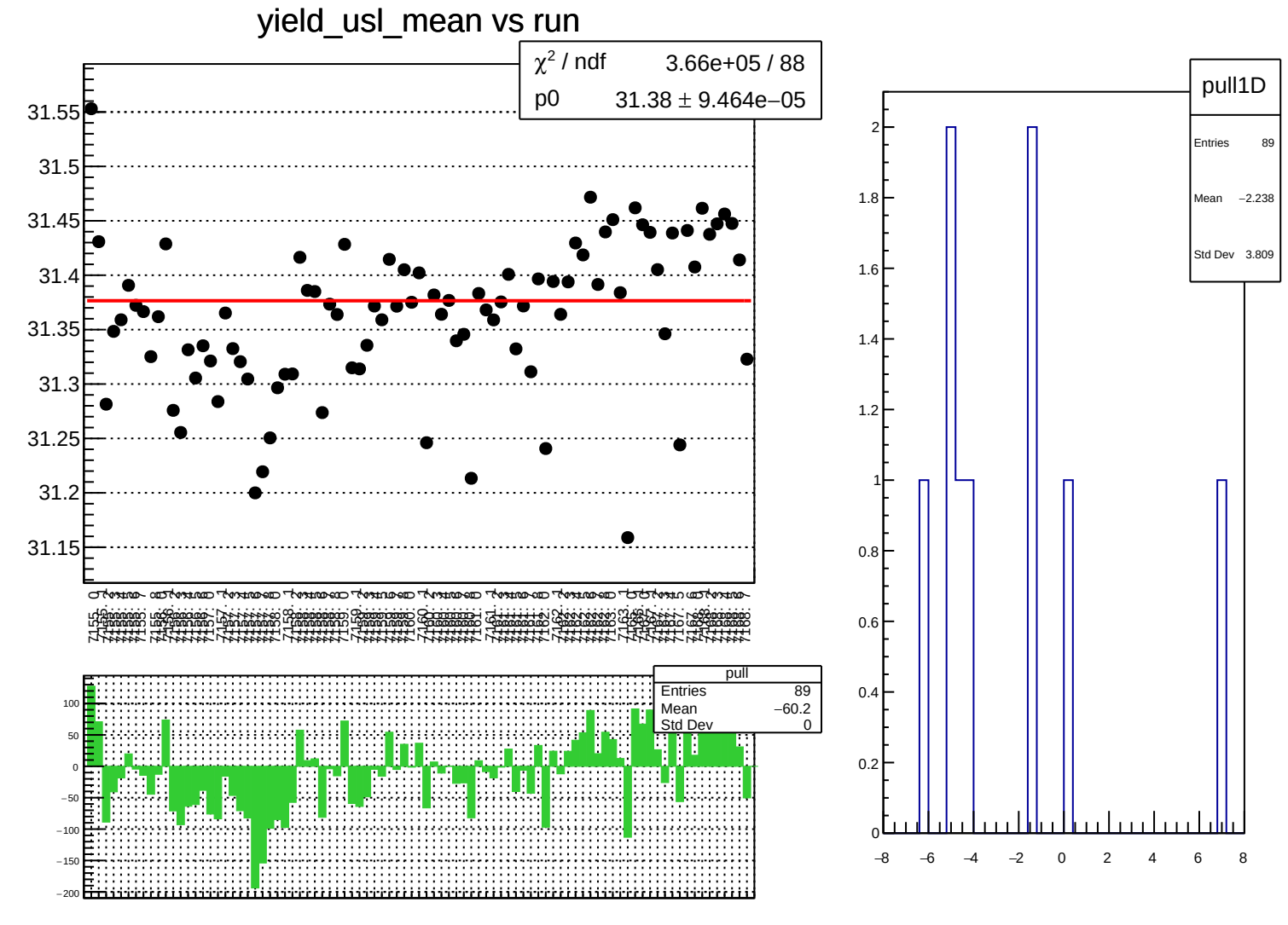

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.9 / 88
p0 −0.01726 ± 0.03016
pull
Entries 89
Mean 28.39
Std Dev 0
pull1D
Entries 89
Mean 0.03204
Std Dev 1.021

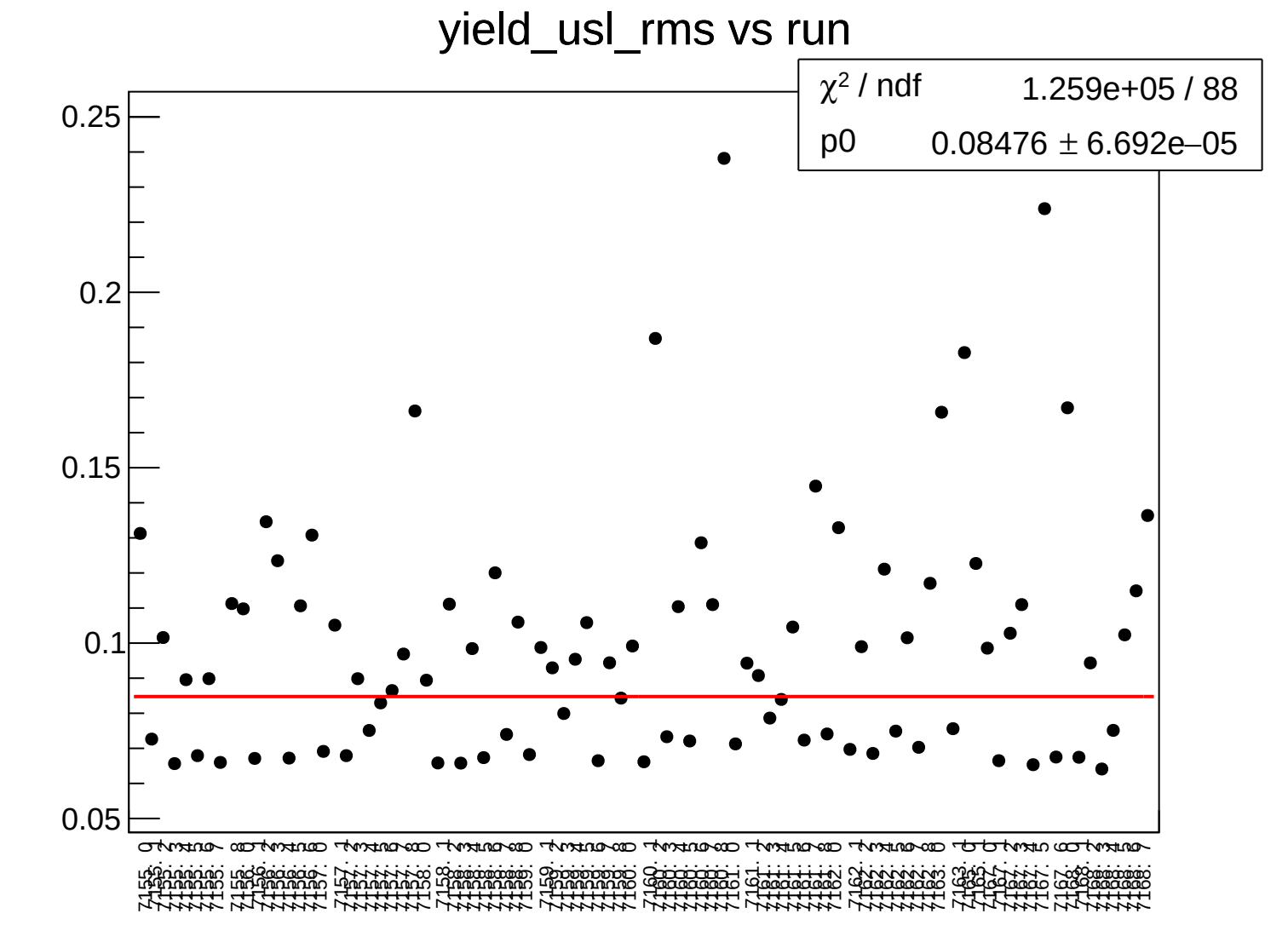

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.688e+05 / 88
p0 25.78 ± 0.02133
70
60
50
40
30
20
10

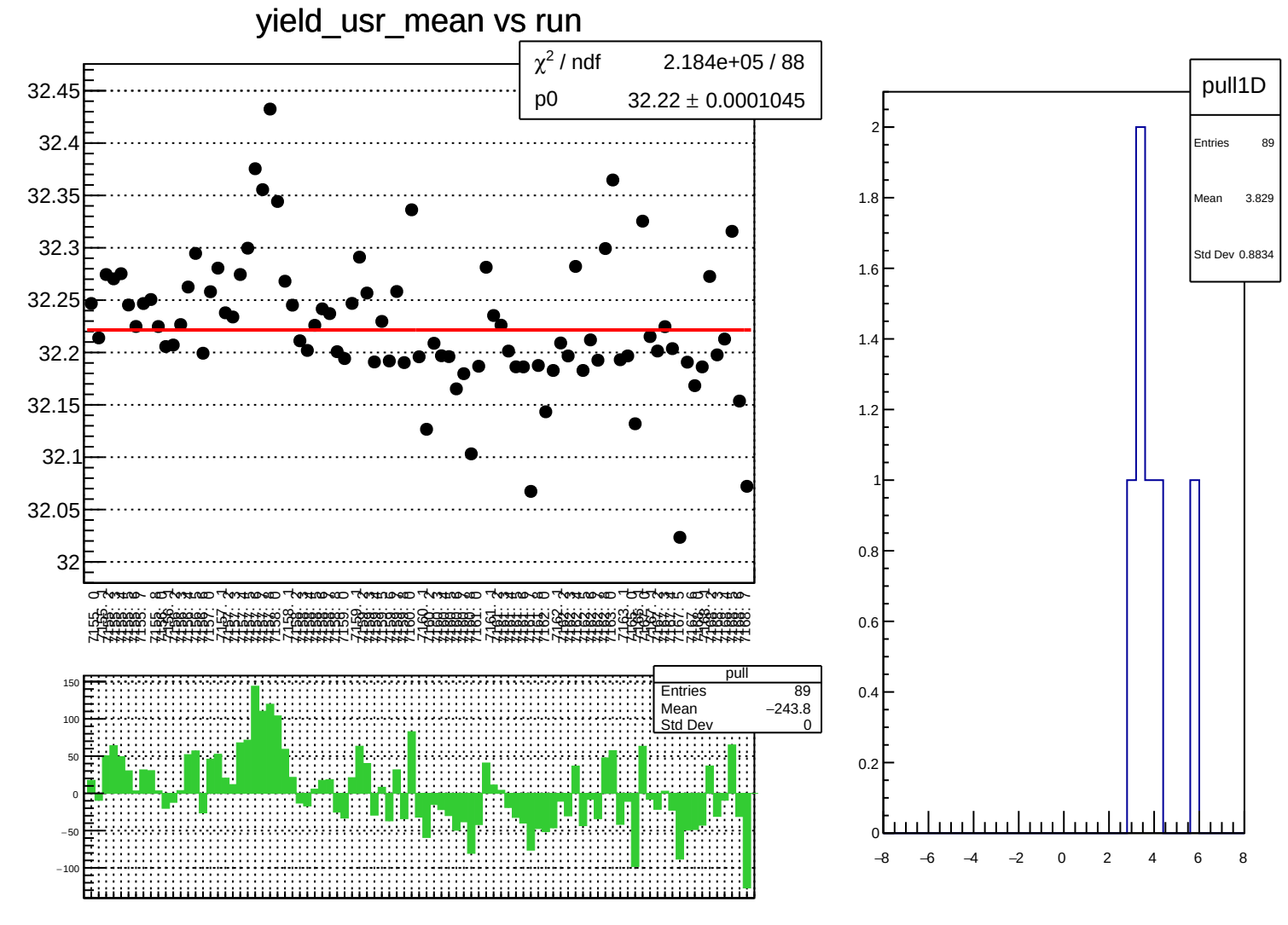

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.24 / 88
p0 5.141e−15 ± 1.504e−14
pull
Entries 89
Mean −95.78
Std Dev 0

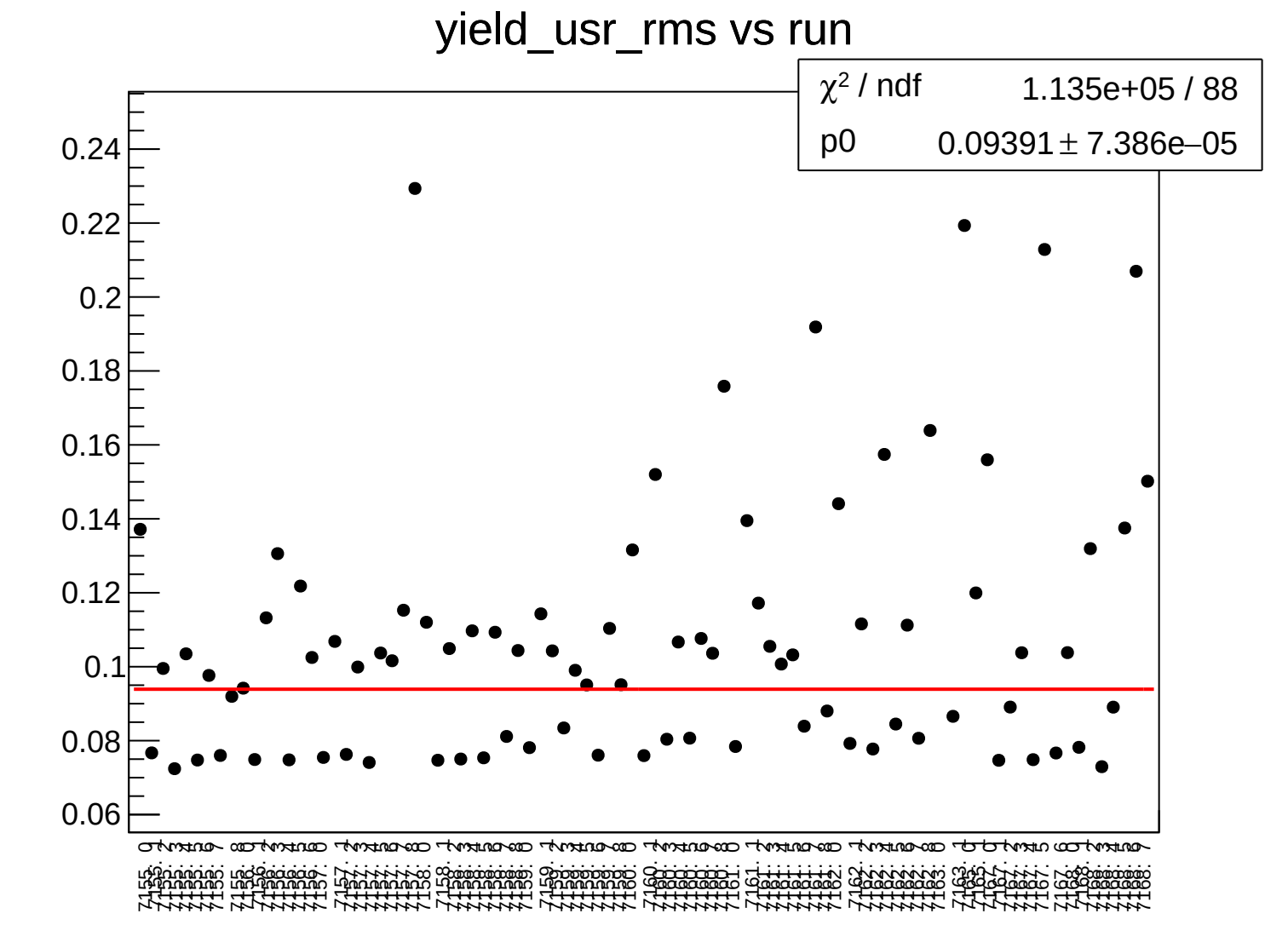

pull1D
Entries 89
Mean −0.03381
Std Dev 1.05

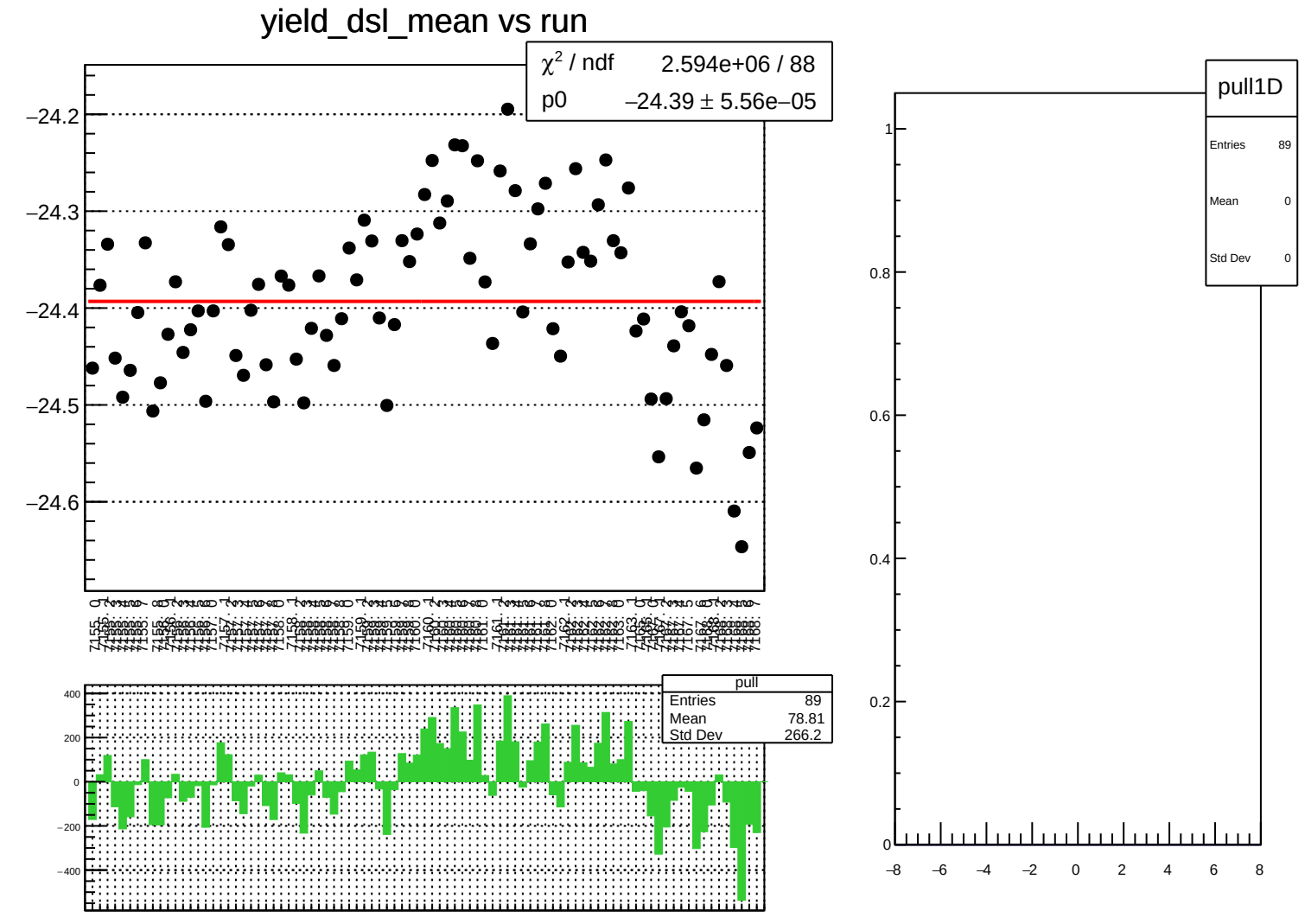

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.598e+05 / 88
p0 1.245e−11 ± 1.064e−14
50
45
40
35
30
25
20
15
10
5

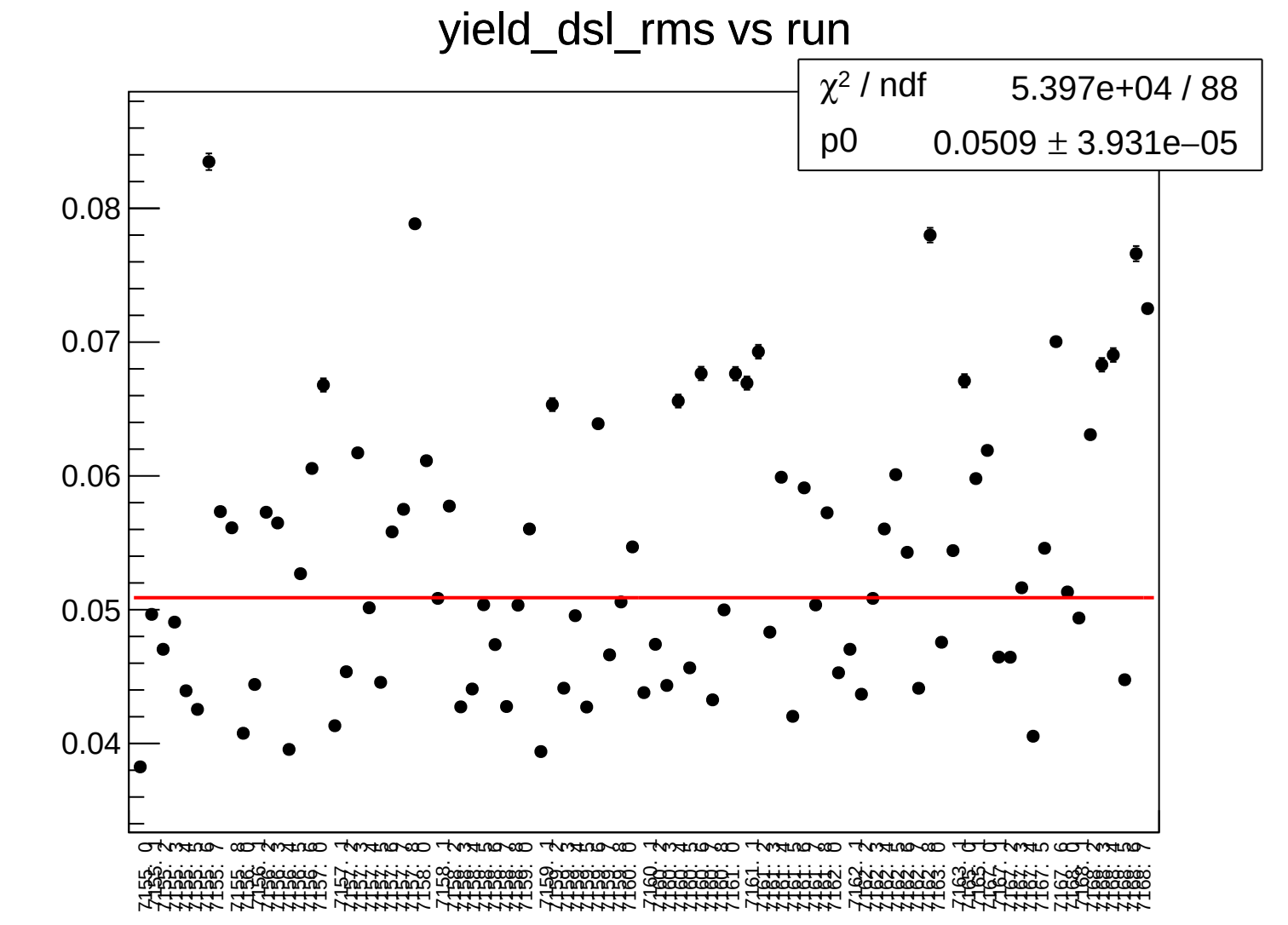

yield_usl_mean vs run
χ² / ndf 3.66e+05 / 88
p0 31.38 ± 9.464e−05
31.55
31.5
31.45
31.4
31.35
31.3
31.25
31.2
31.15
pull
Entries 89
Mean −60.2
Std Dev 0
100
50
0
−50
−100
−150
−200
pull1D
Entries 89
Mean −2.238
Std Dev 3.809
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

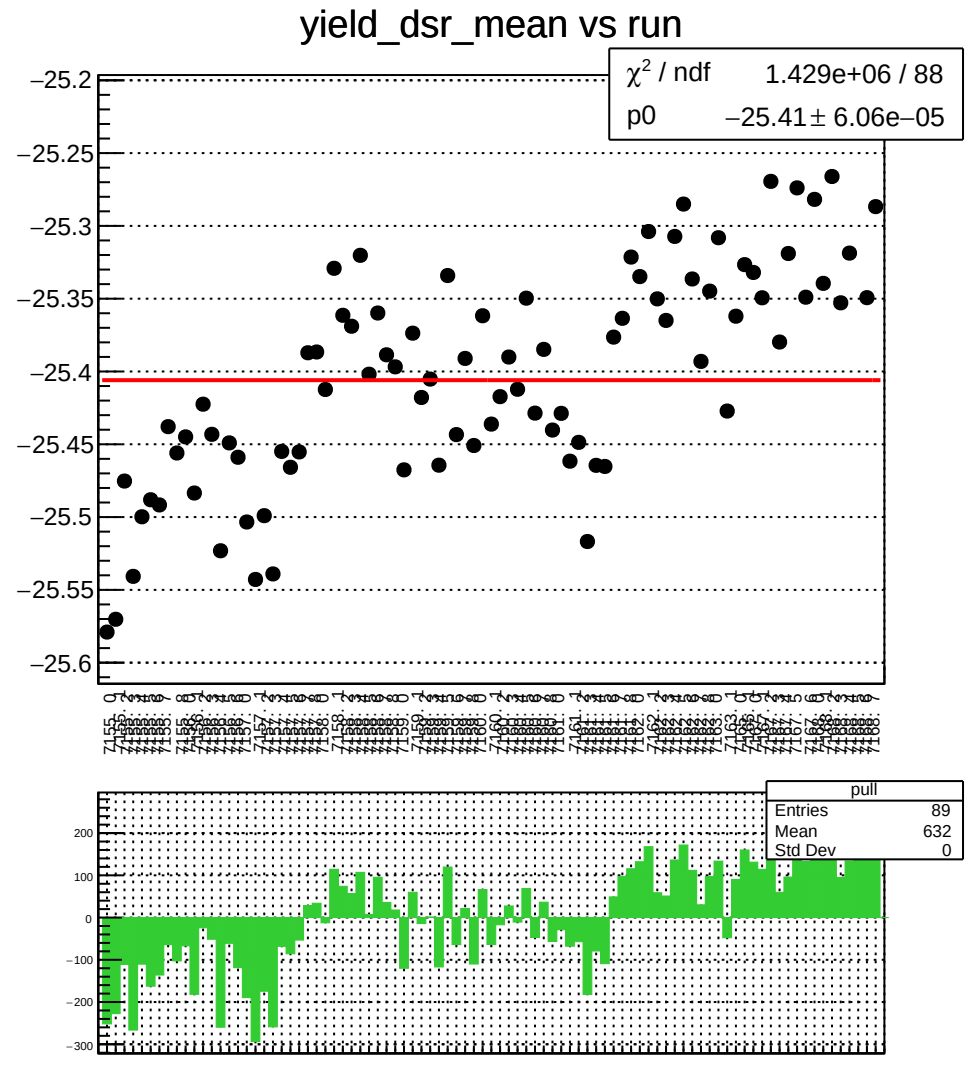

yield_usl_rms vs run
χ² / ndf 1.259e+05 / 88
p0 0.08476 ± 6.692e–05
0.25
0.2
0.15
0.1
0.05

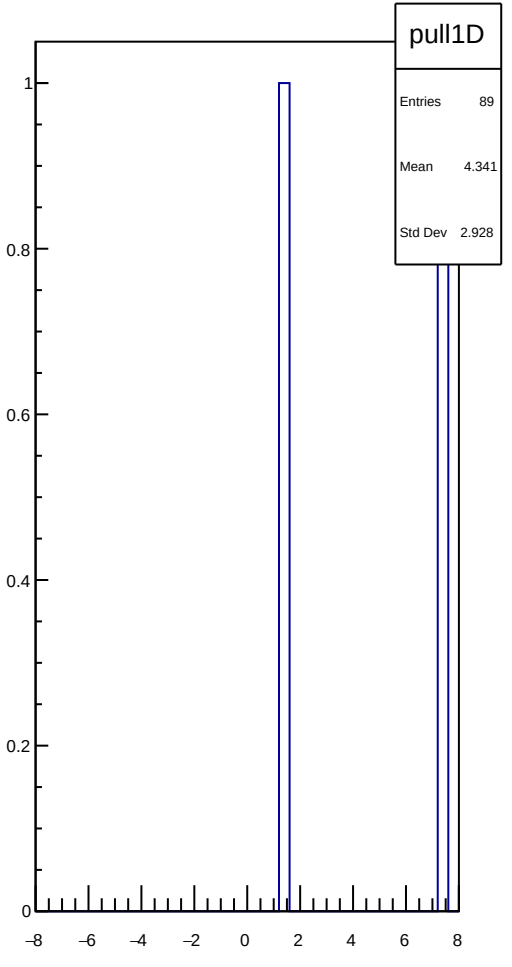

yield_usr_mean vs run
χ² / ndf 2.184e+05 / 88
p0 32.22 ± 0.0001045
32.45
32.4
32.35
32.3
32.25
32.2
32.15
32.1
32.05
32
pull
Entries 89
Mean −243.8
Std Dev 0
150
100
50
0
−50
−100
pull1D
Entries 89
Mean 3.829
Std Dev 0.8834
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

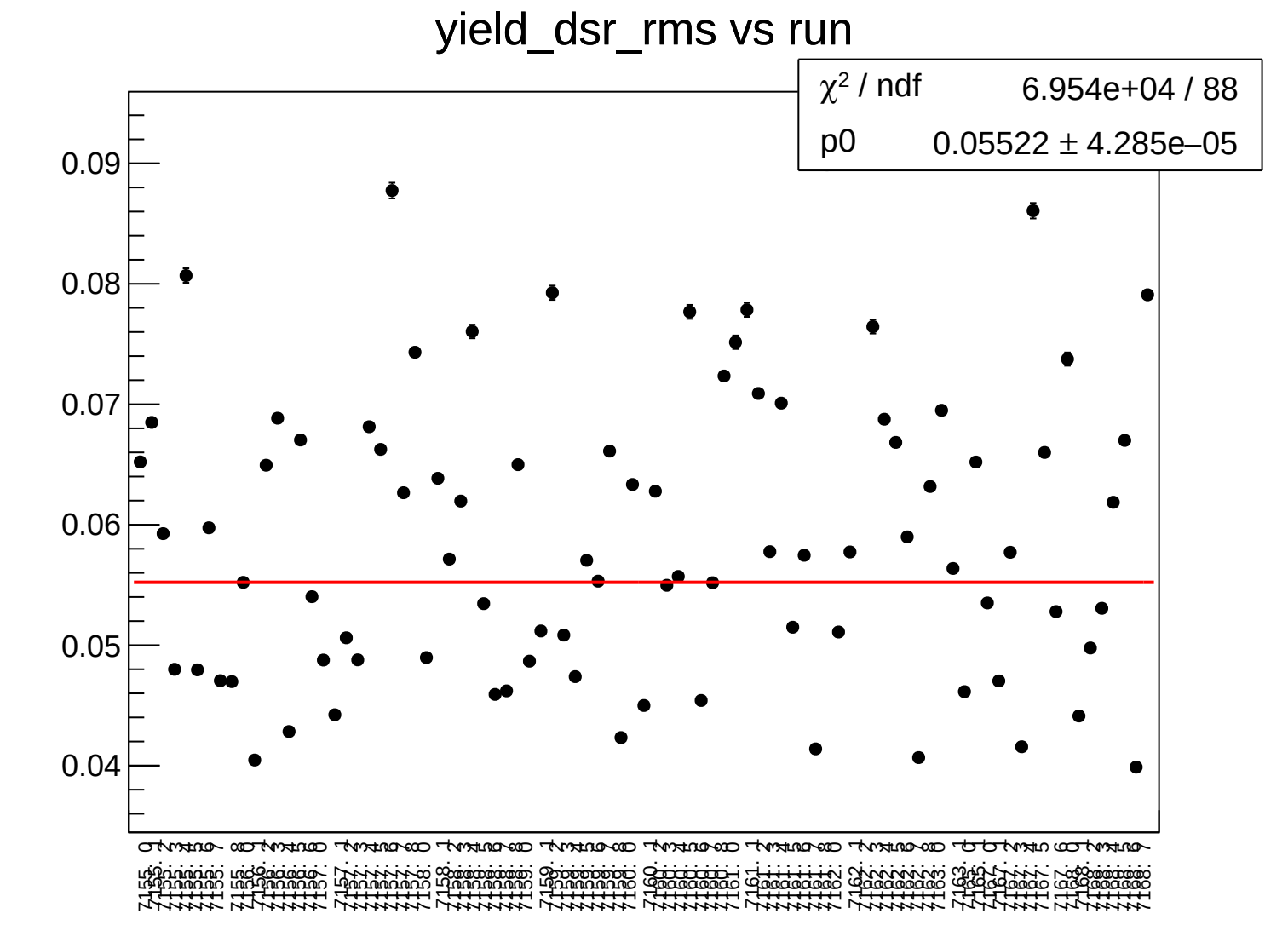

yield_usr_rms vs run
χ² / ndf 1.135e+05 / 88
p0 0.09391 ± 7.386e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

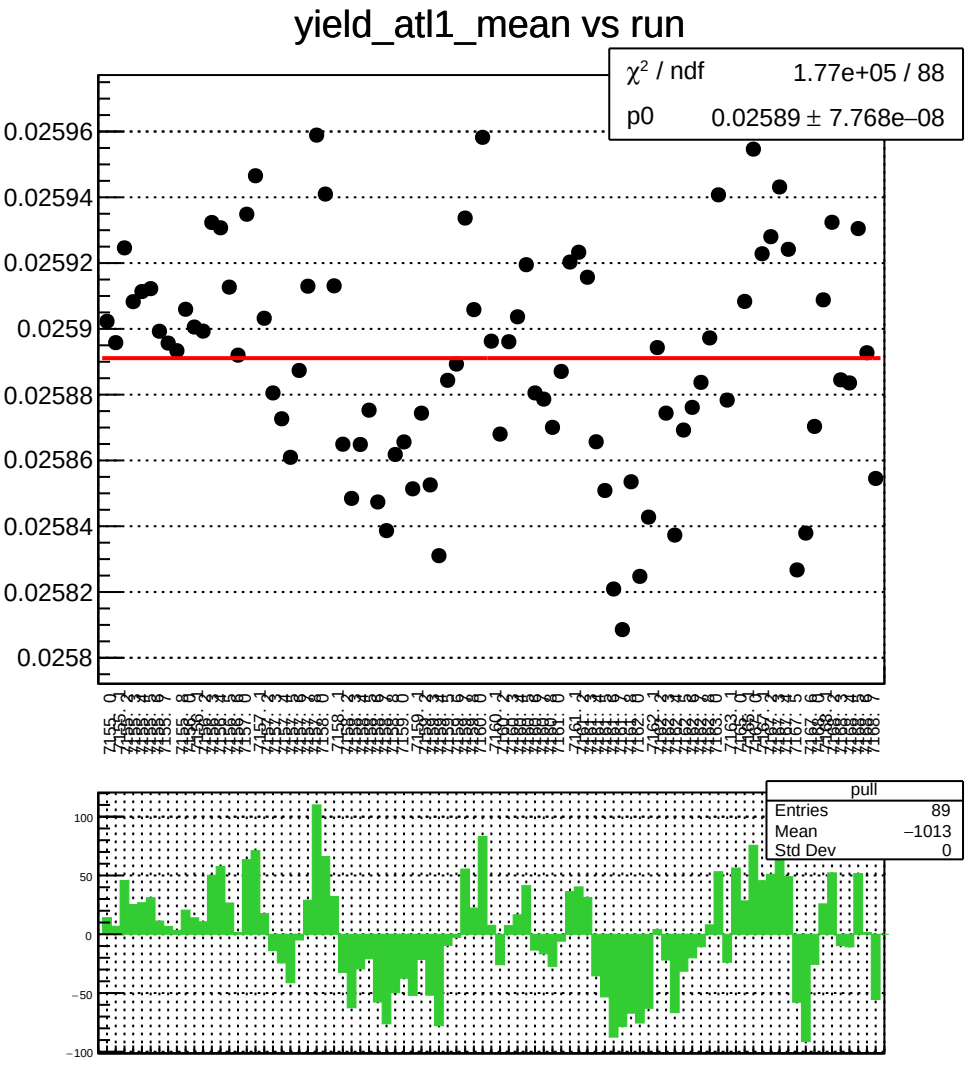

yield_dsl_mean vs run
χ² / ndf 2.594e+06 / 88
p0 −24.39 ± 5.56e−05
−24.2
−24.3
−24.4
−24.5
−24.6
pull
Entries 89
Mean 78.81
Std Dev 266.2
400
200
0
−200
−400
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

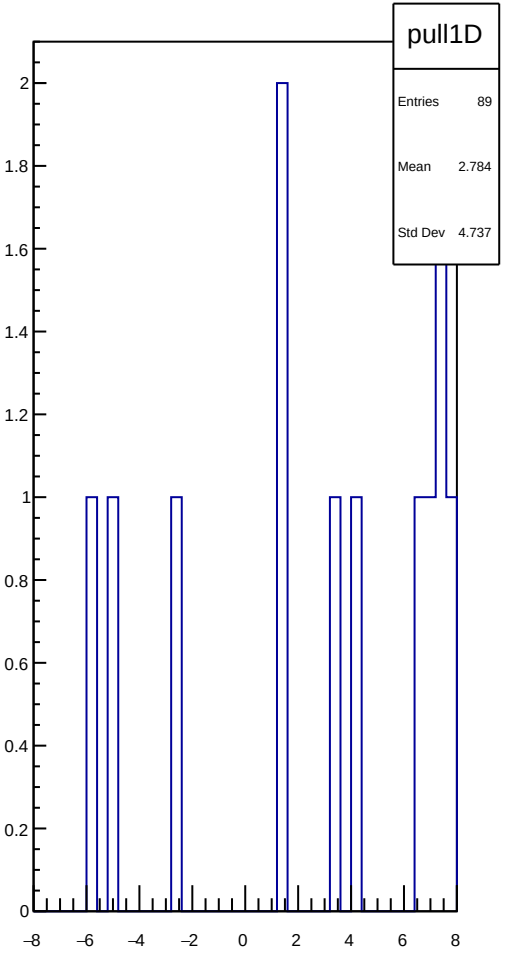

yield_dsl_rms vs run
χ^2 / ndf 5.397e+04 / 88
p0 0.0509 ± 3.931e−05
0.08
0.07
0.06
0.05
0.04

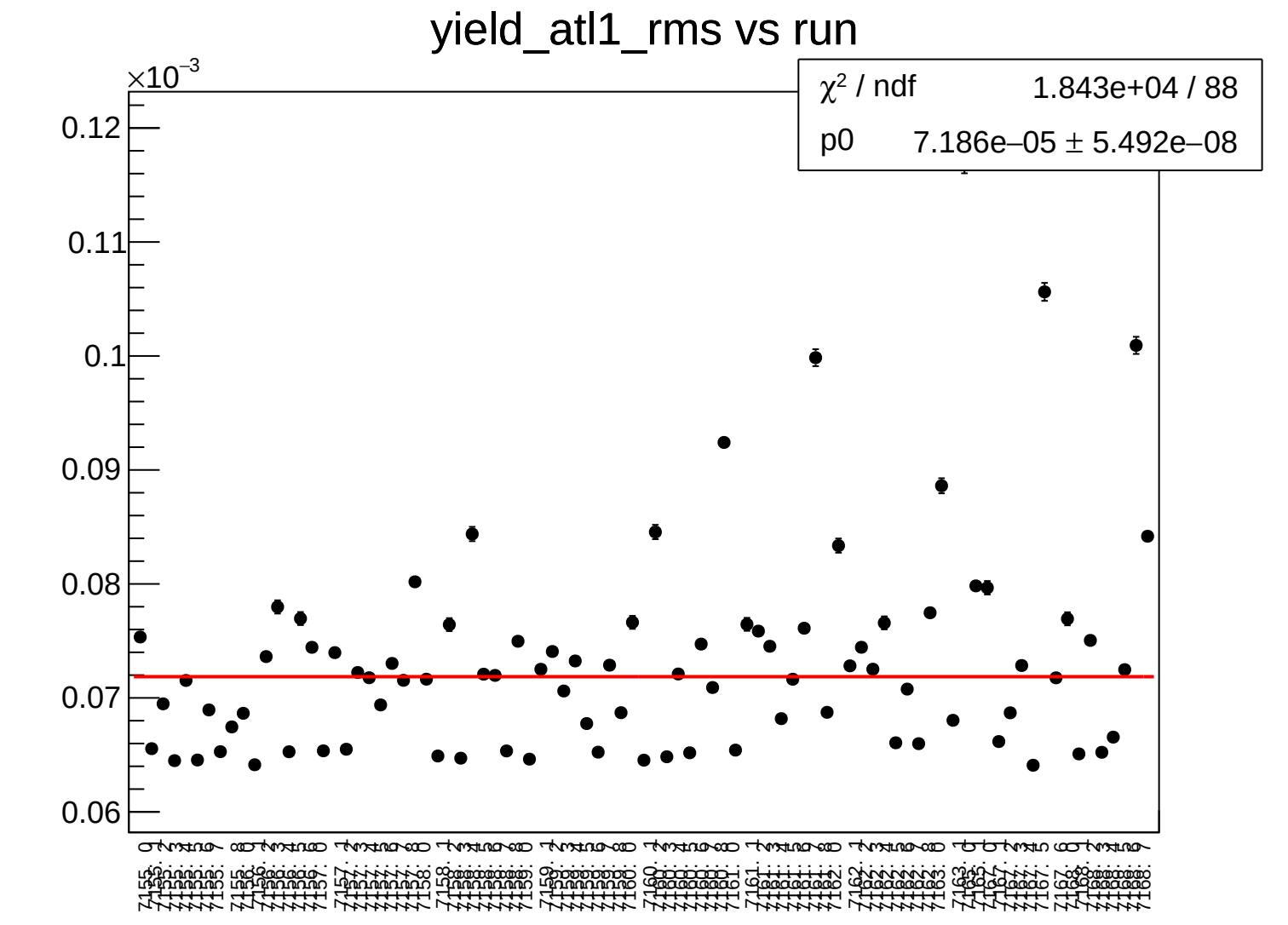

yield_dsr_mean vs run
χ² / ndf 1.429e+06 / 88
p0 −25.41 ± 6.06e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
pull
Entries 89
Mean 632
Std Dev 0
200
100
0
−100
−200
−300

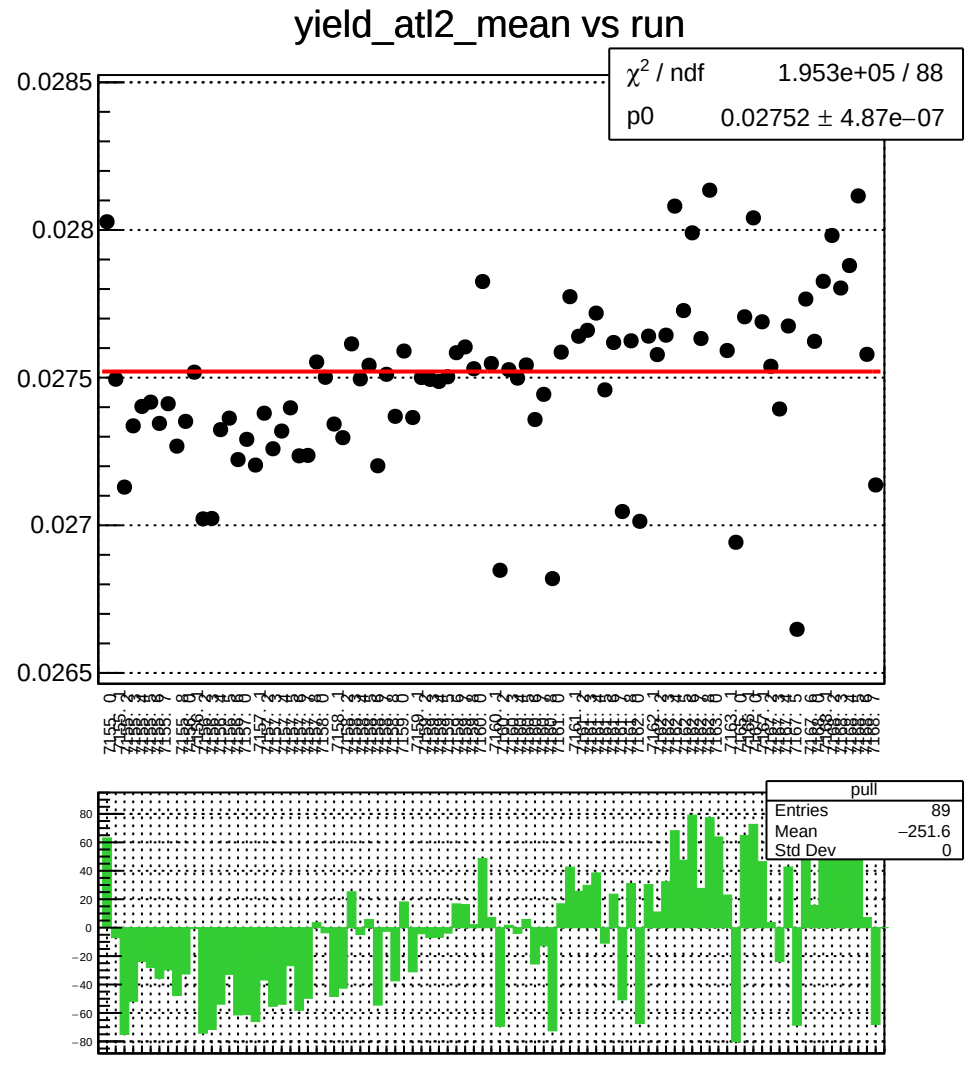

pull1D
Entries 89
Mean 4.341
Std Dev 2.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

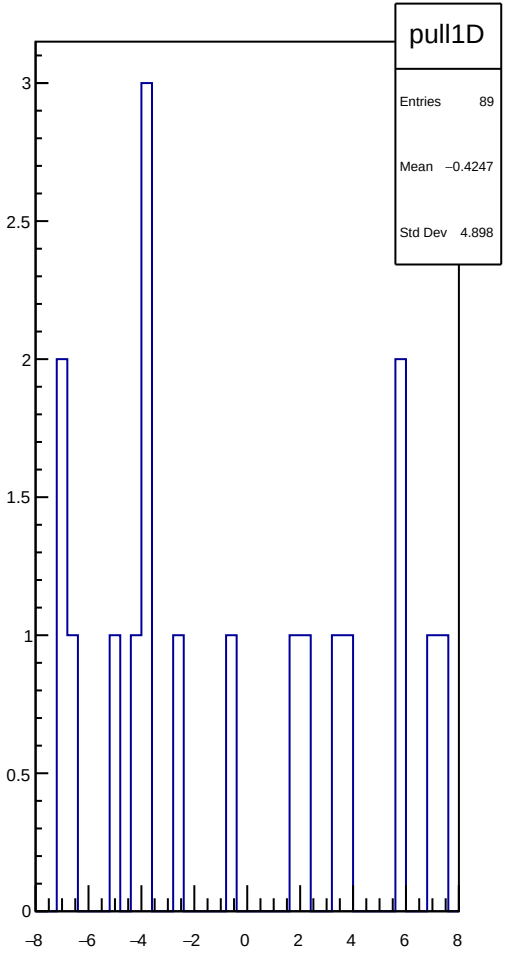

yield_dsr_rms vs run
χ² / ndf 6.954e+04 / 88
p0 0.05522 ± 4.285e−05
0.09
0.08
0.07
0.06
0.05
0.04

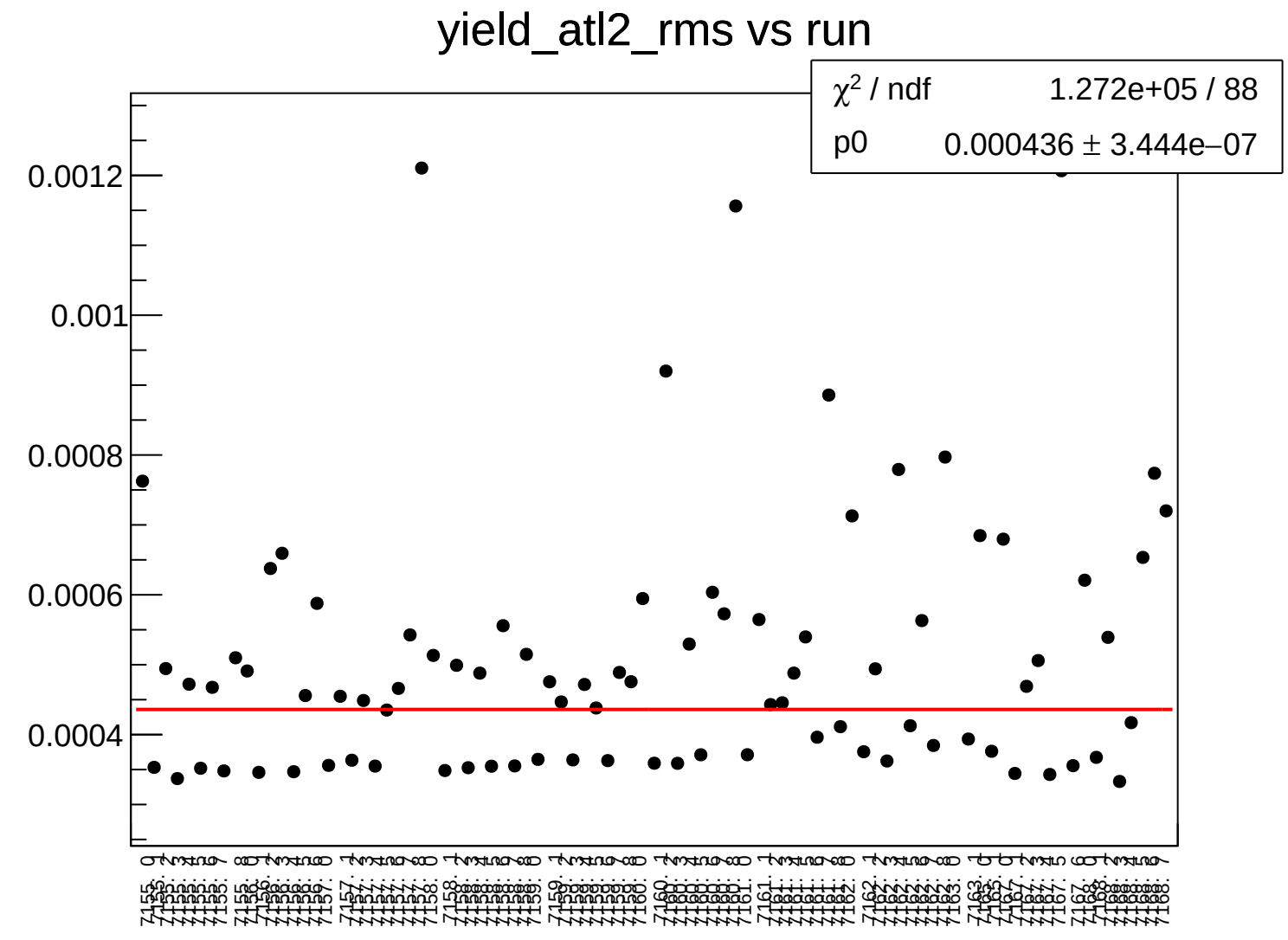

yield_atl1_mean vs run
χ² / ndf 1.77e+05 / 88
p0 0.02589 ± 7.768e−08
0.02596
0.02594
0.02592
0.0259
0.02588
0.02586
0.02584
0.02582
0.0258
pull
Entries 89
Mean −1013
Std Dev 0
100
50
0
−50
−100

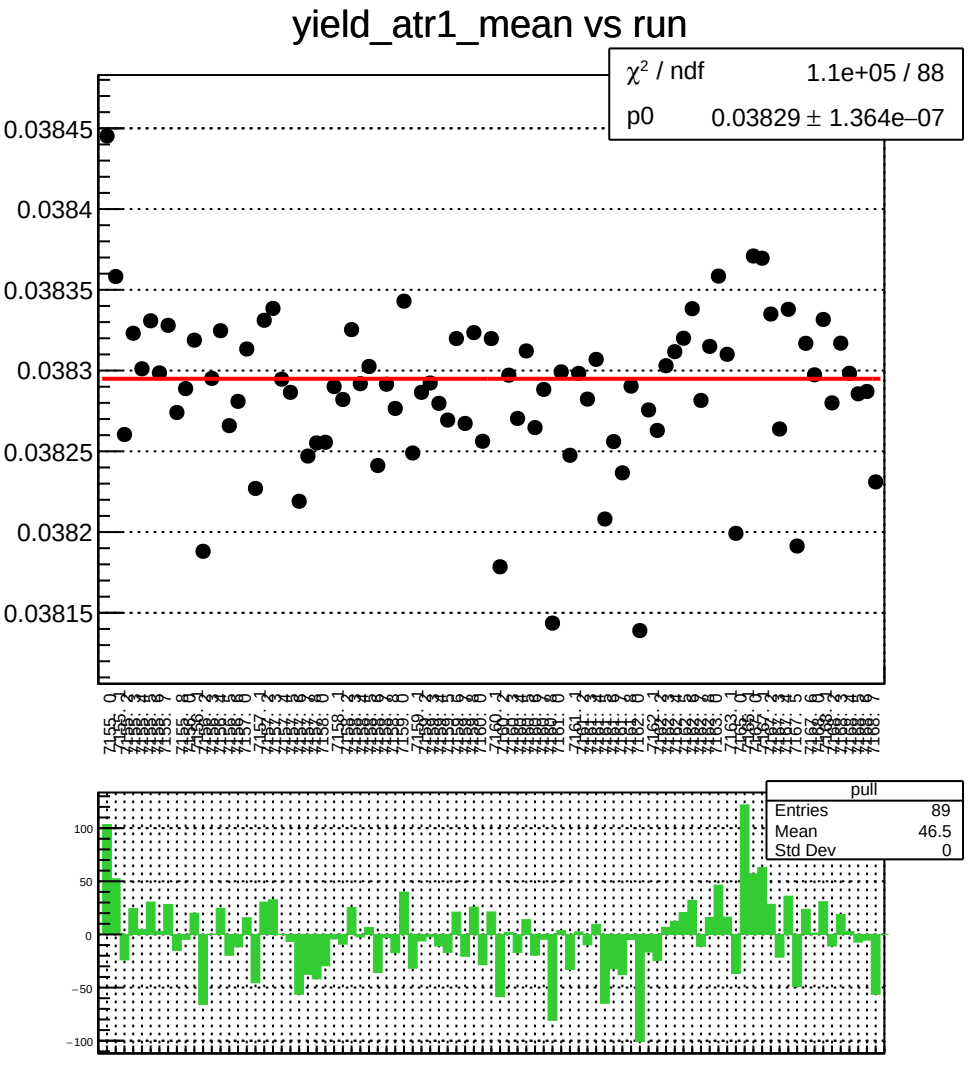

pull1D
Entries 89
Mean 2.784
Std Dev 4.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

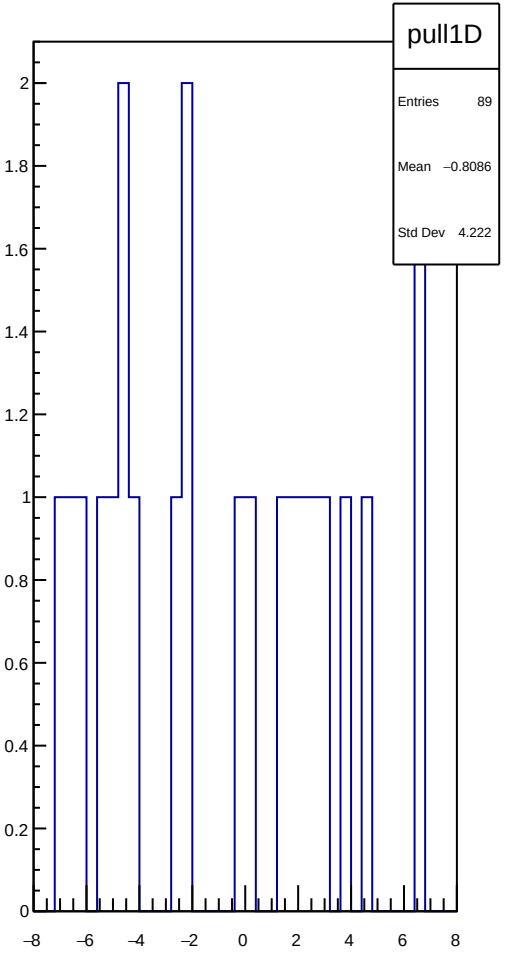

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.843e+04 / 88
p0 7.186e−05 ± 5.492e−08
0.12
0.11
0.1
0.09
0.08
0.07
0.06

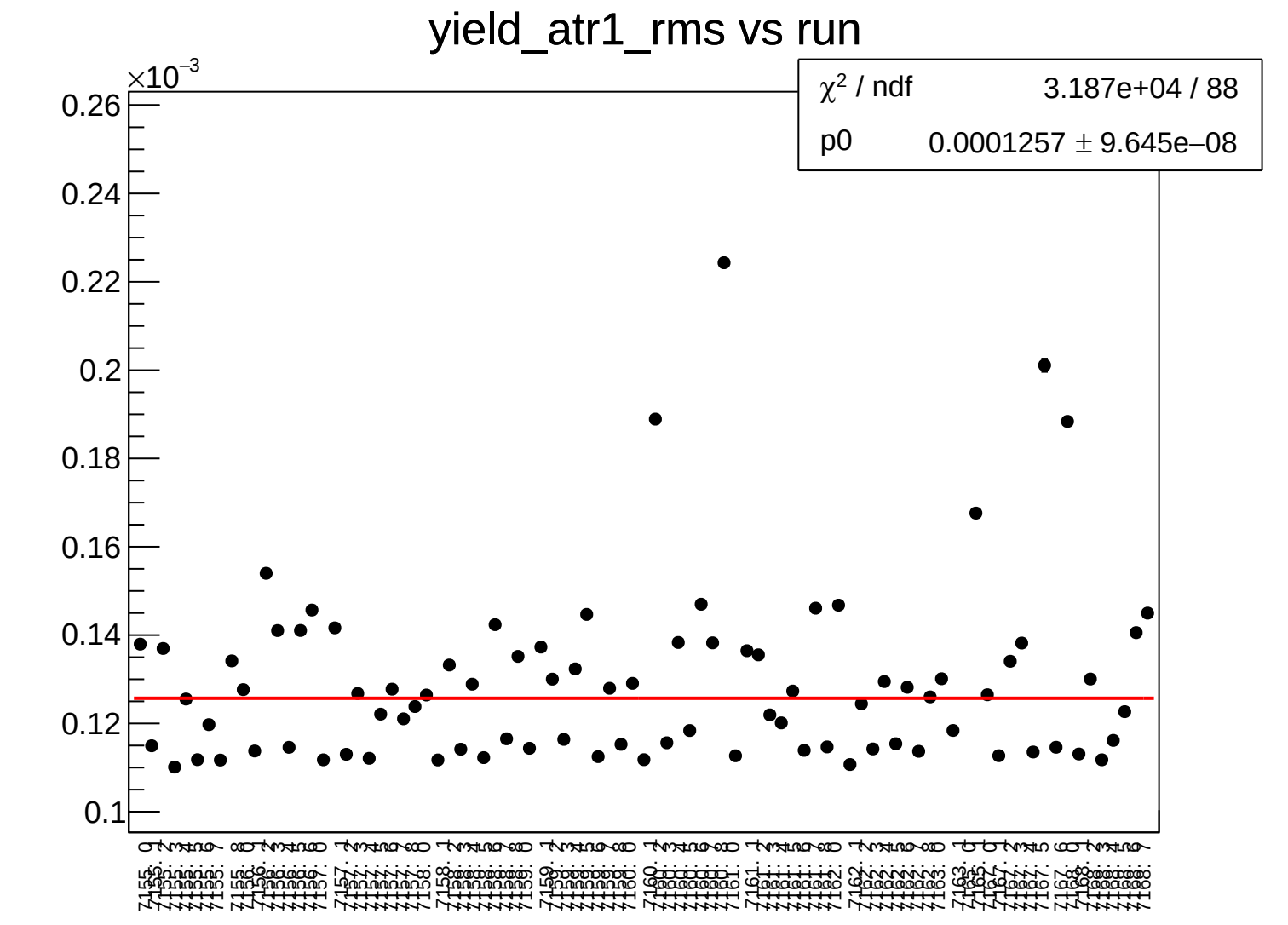

yield_atl2_mean vs run
χ² / ndf 1.953e+05 / 88
p0 0.02752 ± 4.87e−07
0.0285
0.028
0.0275
0.027
0.0265
pull
Entries 89
Mean −251.6
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

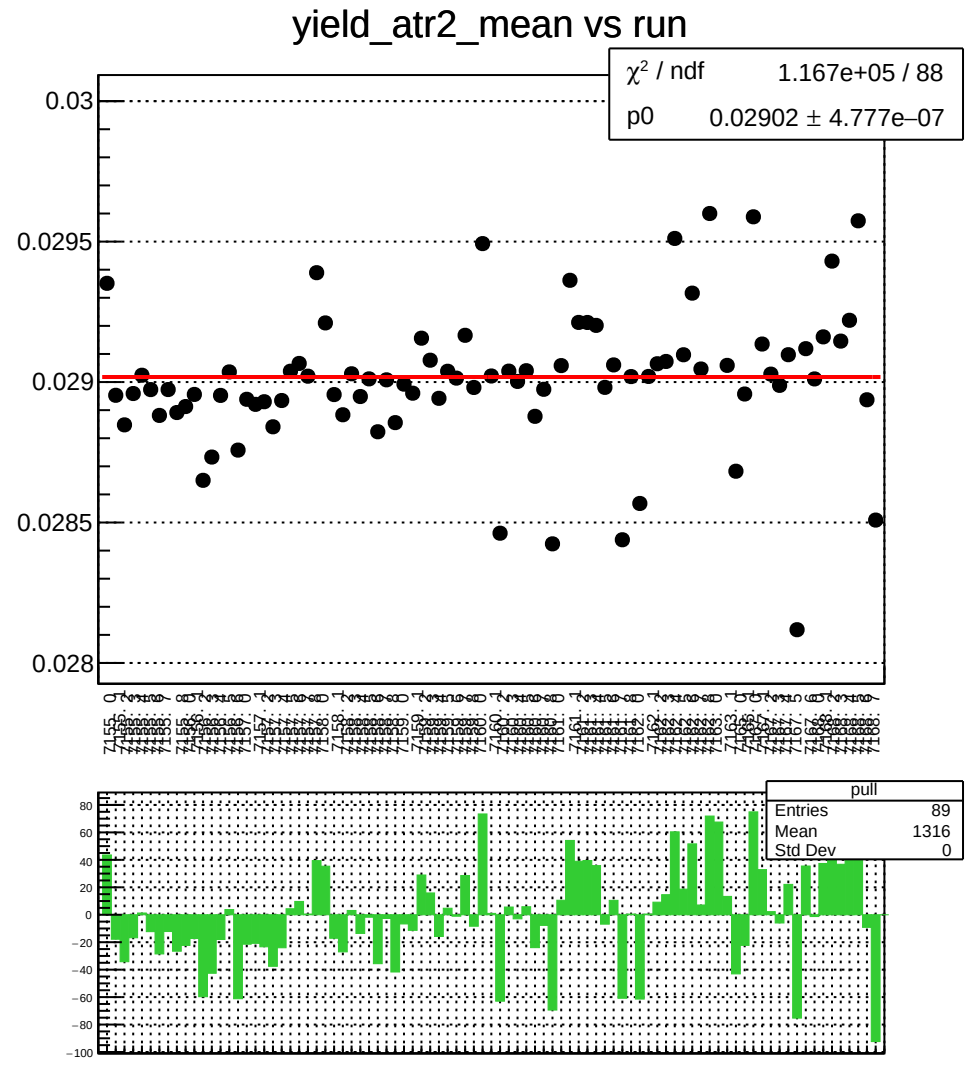

pull1D
Entries 89
Mean −0.4247
Std Dev 4.898
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

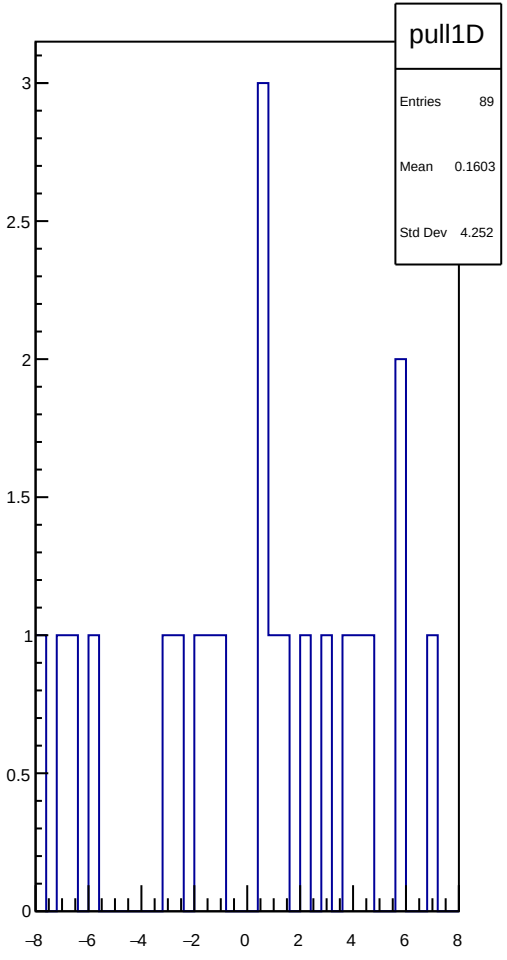

yield_atl2_rms vs run
χ² / ndf 1.272e+05 / 88
p0 0.000436 ± 3.444e−07
0.0012
0.001
0.0008
0.0006
0.0004

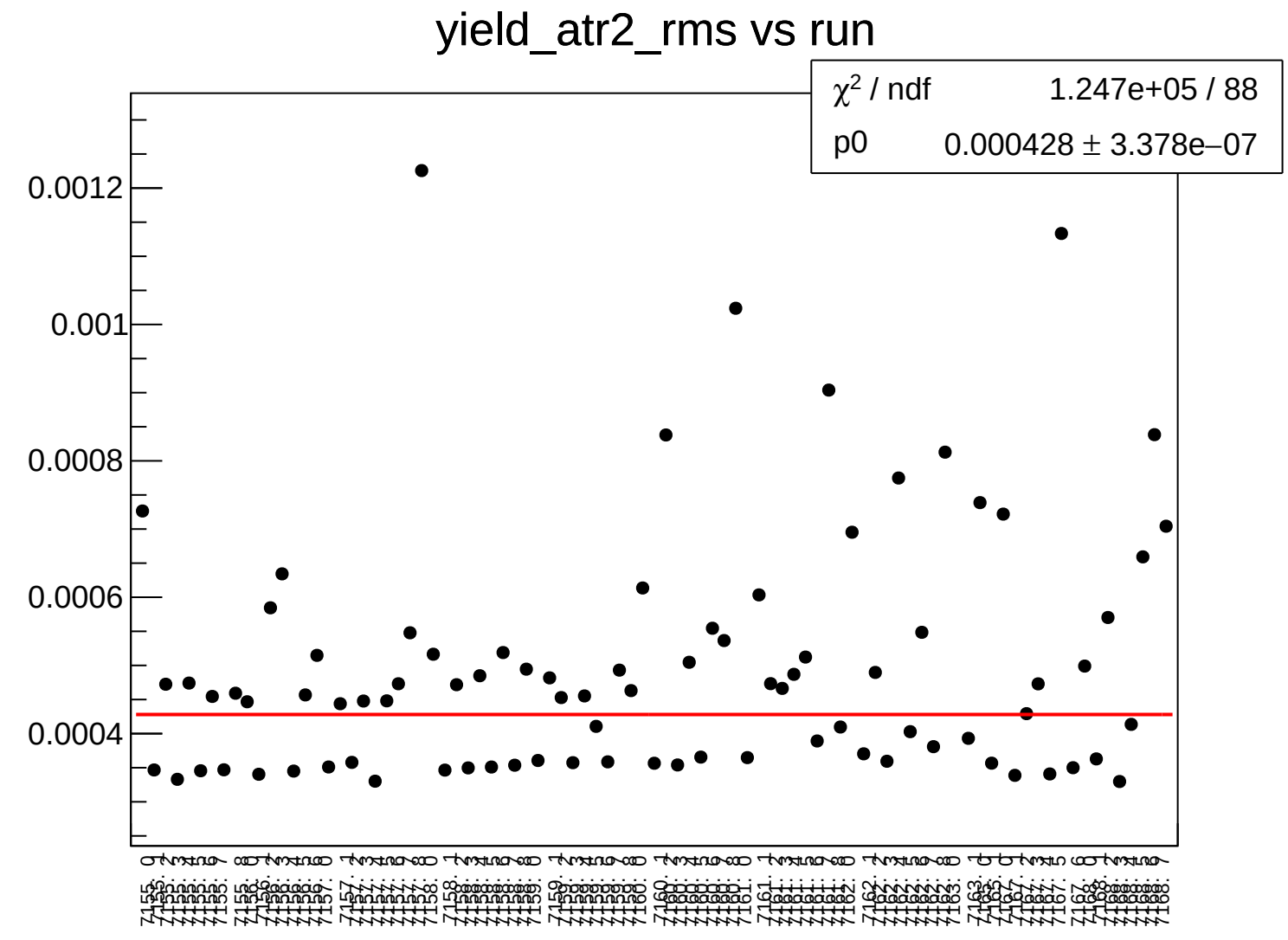

yield_atr1_mean vs run
χ² / ndf 1.1e+05 / 88
p0 0.03829 ± 1.364e−07
0.03845
0.0384
0.03835
0.0383
0.03825
0.0382
0.03815
pull
Entries 89
Mean 46.5
Std Dev 0
100
50
0
−50
−100

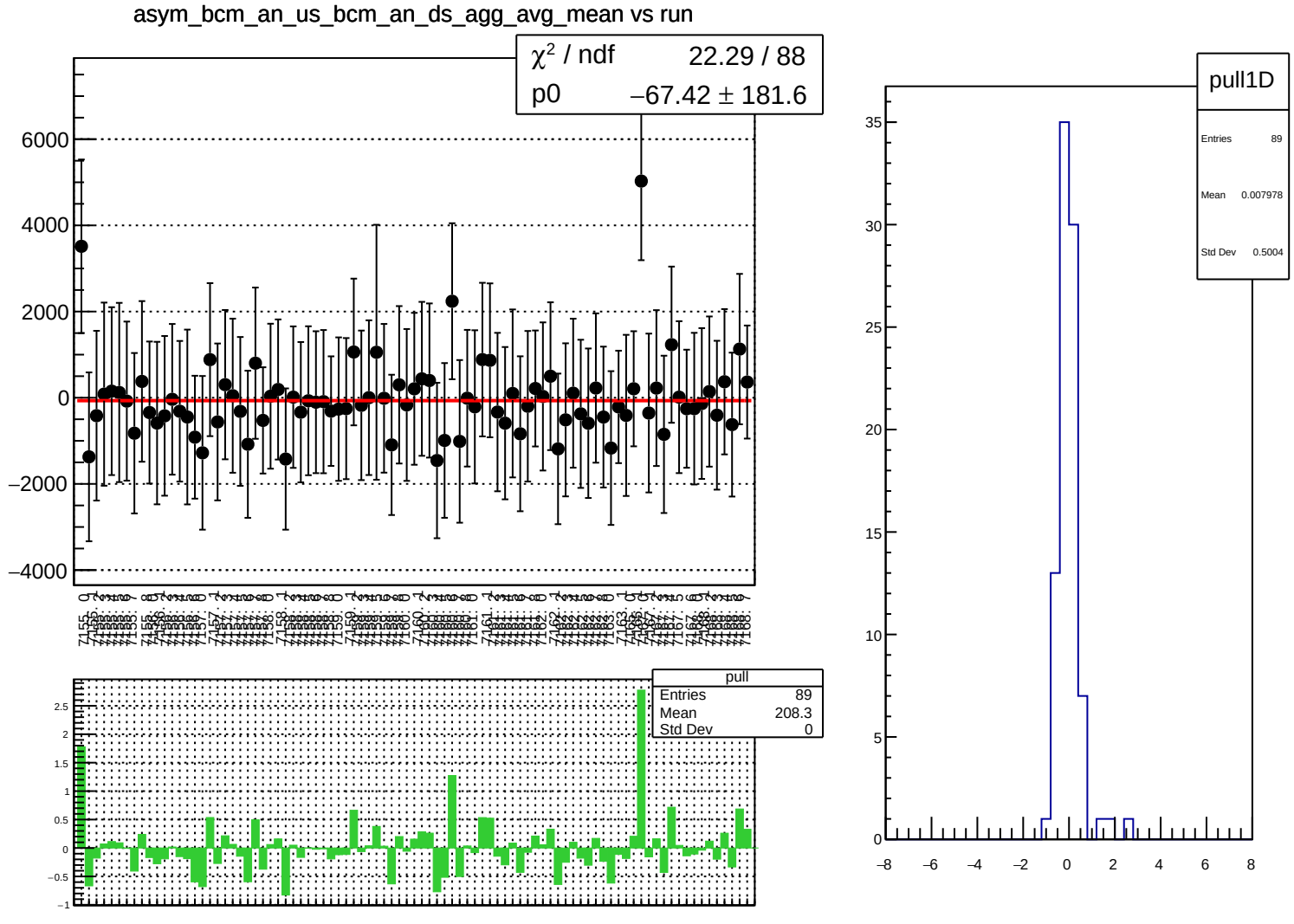

pull1D
Entries 89
Mean −0.8086
Std Dev 4.222
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

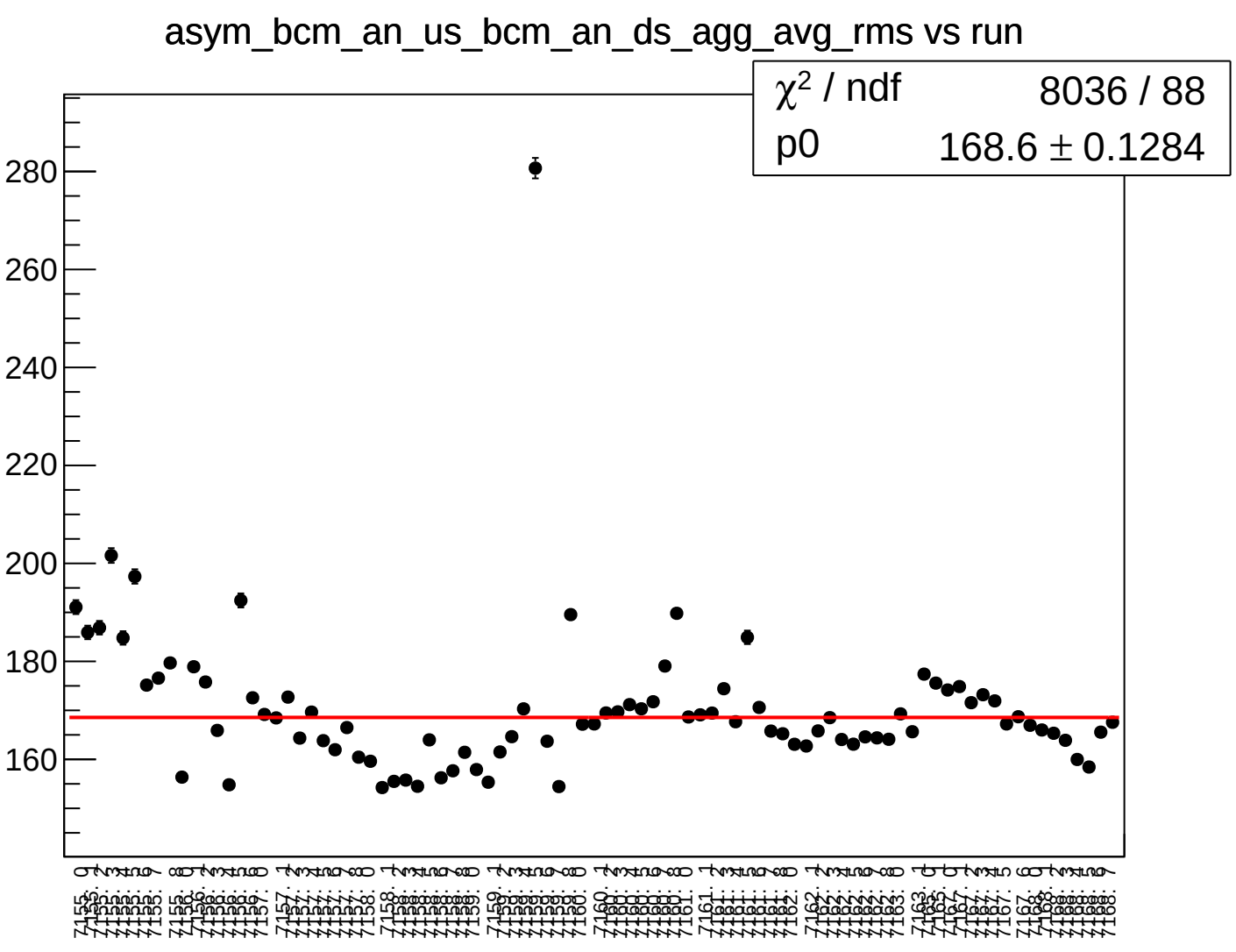

yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.187e+04 / 88
p0 0.0001257 ± 9.645e−08
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

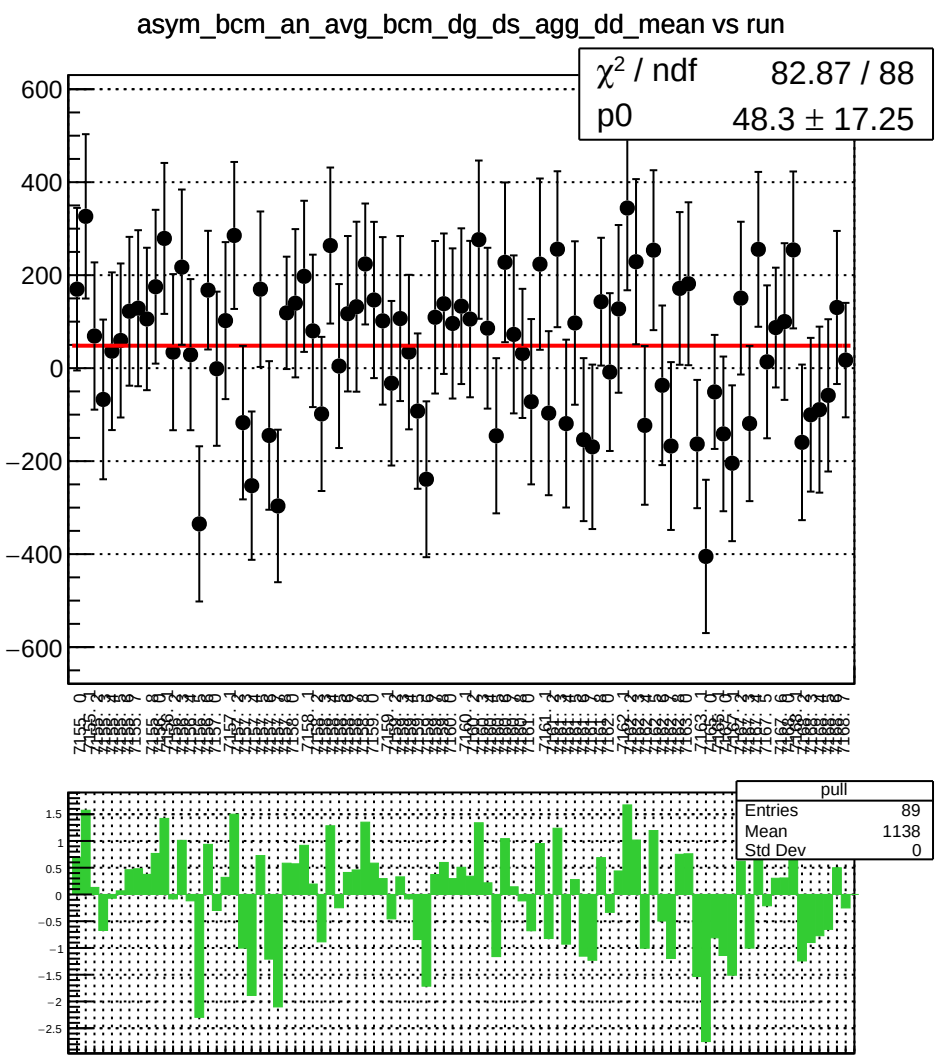

yield_atr2_mean vs run
χ² / ndf 1.167e+05 / 88
p0 0.02902 ± 4.777e−07
0.03
0.0295
0.029
0.0285
0.028
pull
Entries 89
Mean 1316
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

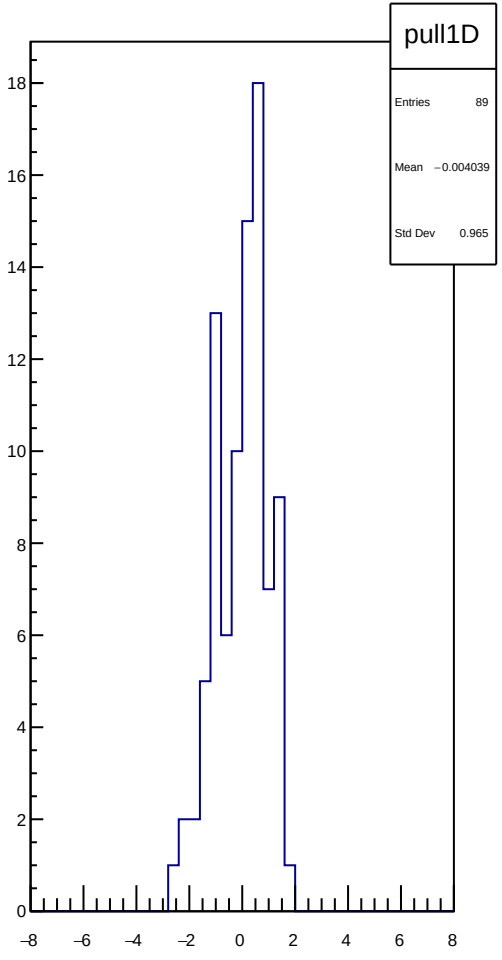

pull1D
Entries 89
Mean 0.1603
Std Dev 4.252
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

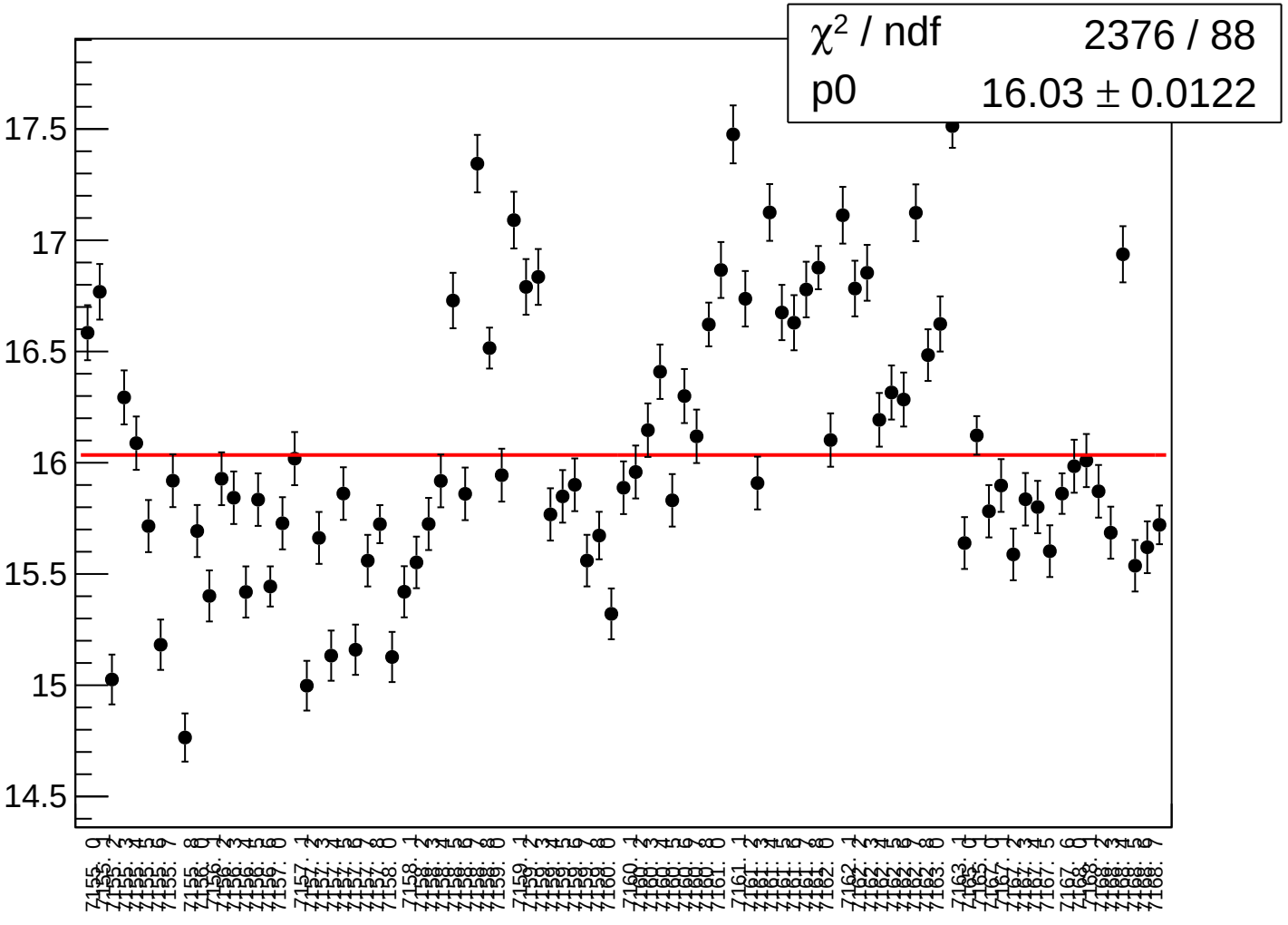

yield_atr2_rms vs run
χ² / ndf 1.247e+05 / 88
p0 0.000428 ± 3.378e−07
0.0012
0.001
0.0008
0.0006
0.0004

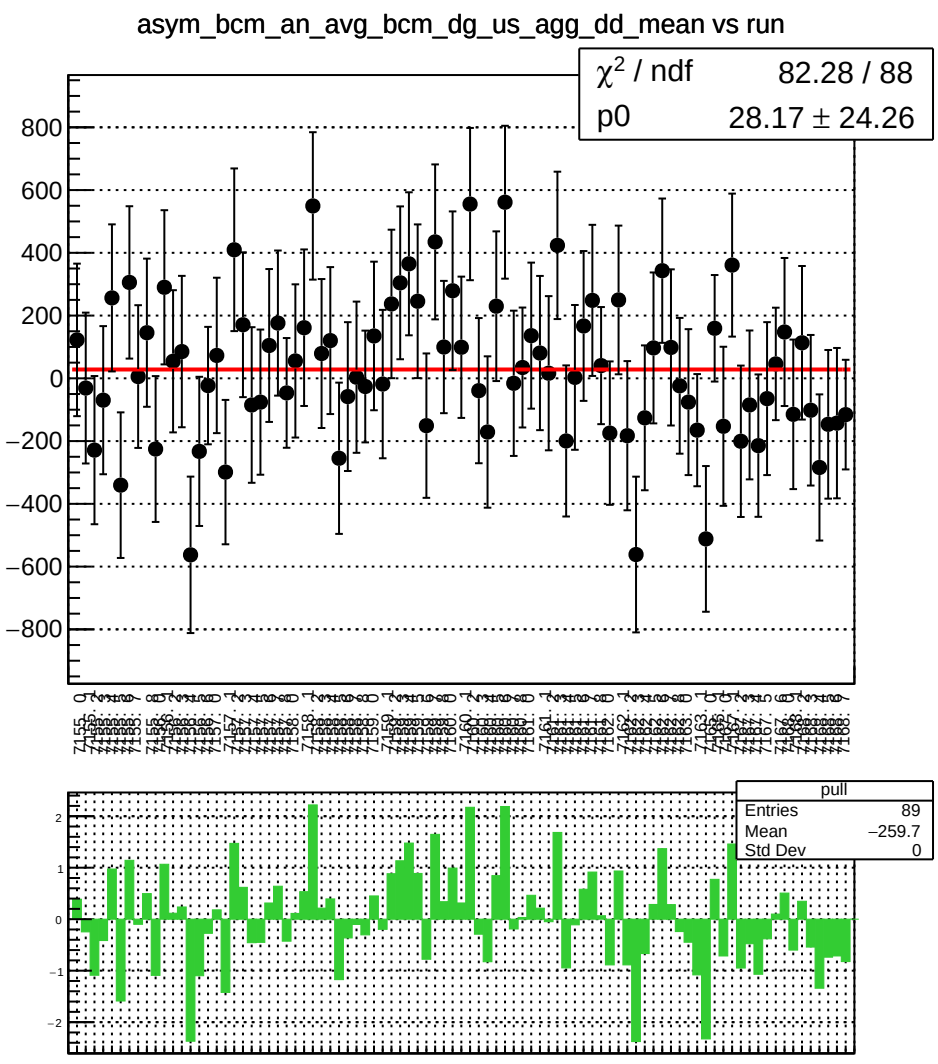

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.29 / 88
p0 −67.42 ± 181.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 208.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.007978
Std Dev 0.5004
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

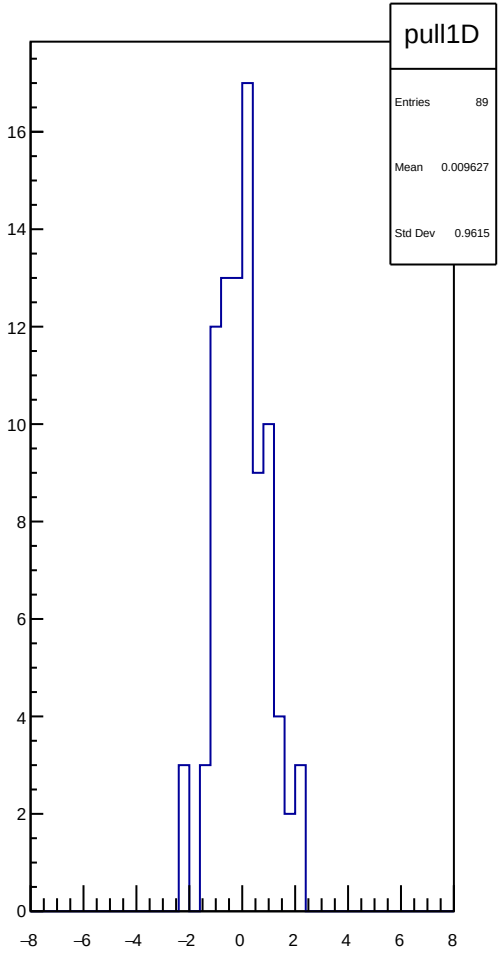

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8036 / 88
p0 168.6 ± 0.1284
280
260
240
220
200
180
160

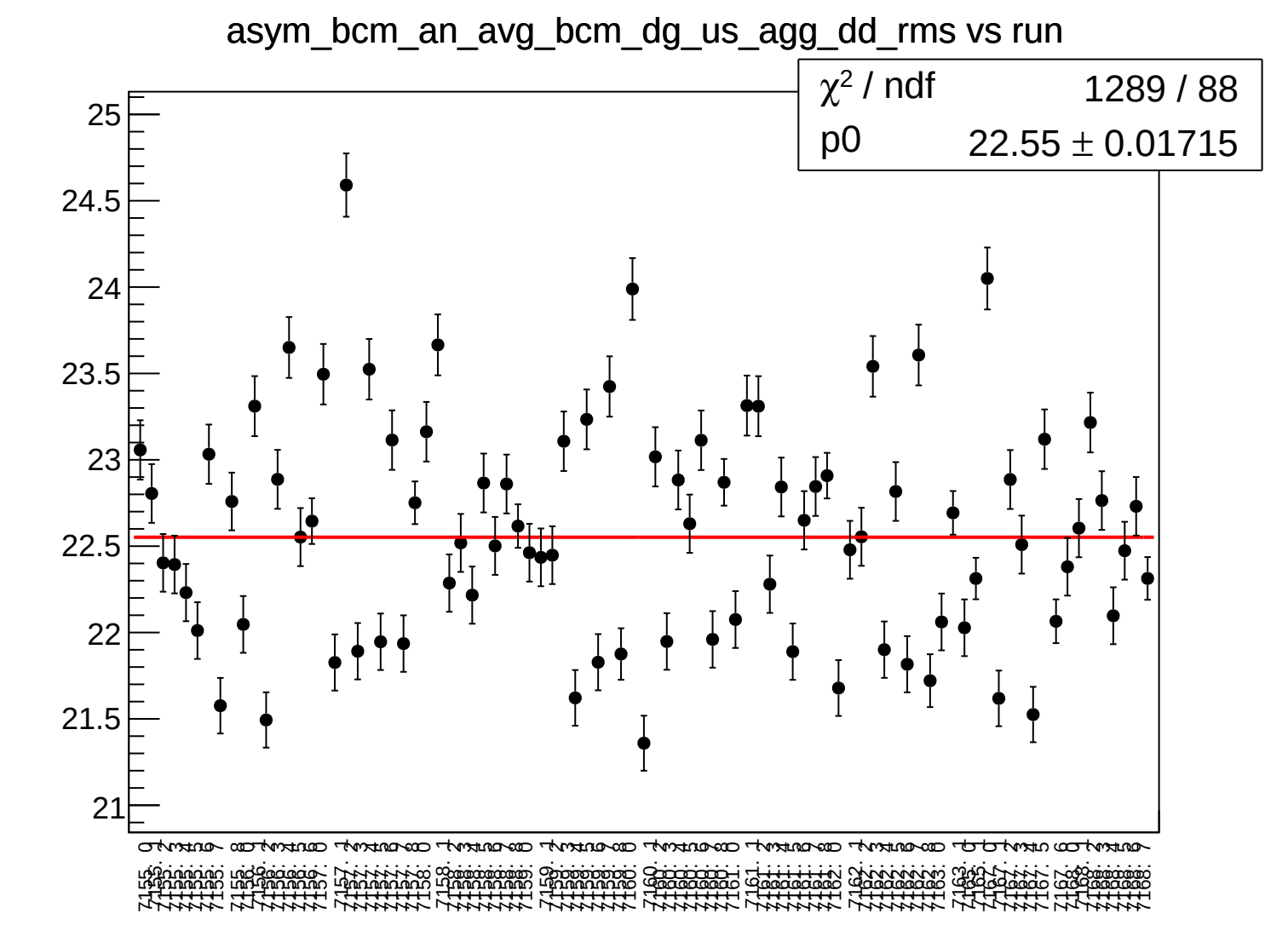

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.87 / 88
p0 48.3 ± 17.25
pull
Entries 89
Mean 1138
Std Dev 0

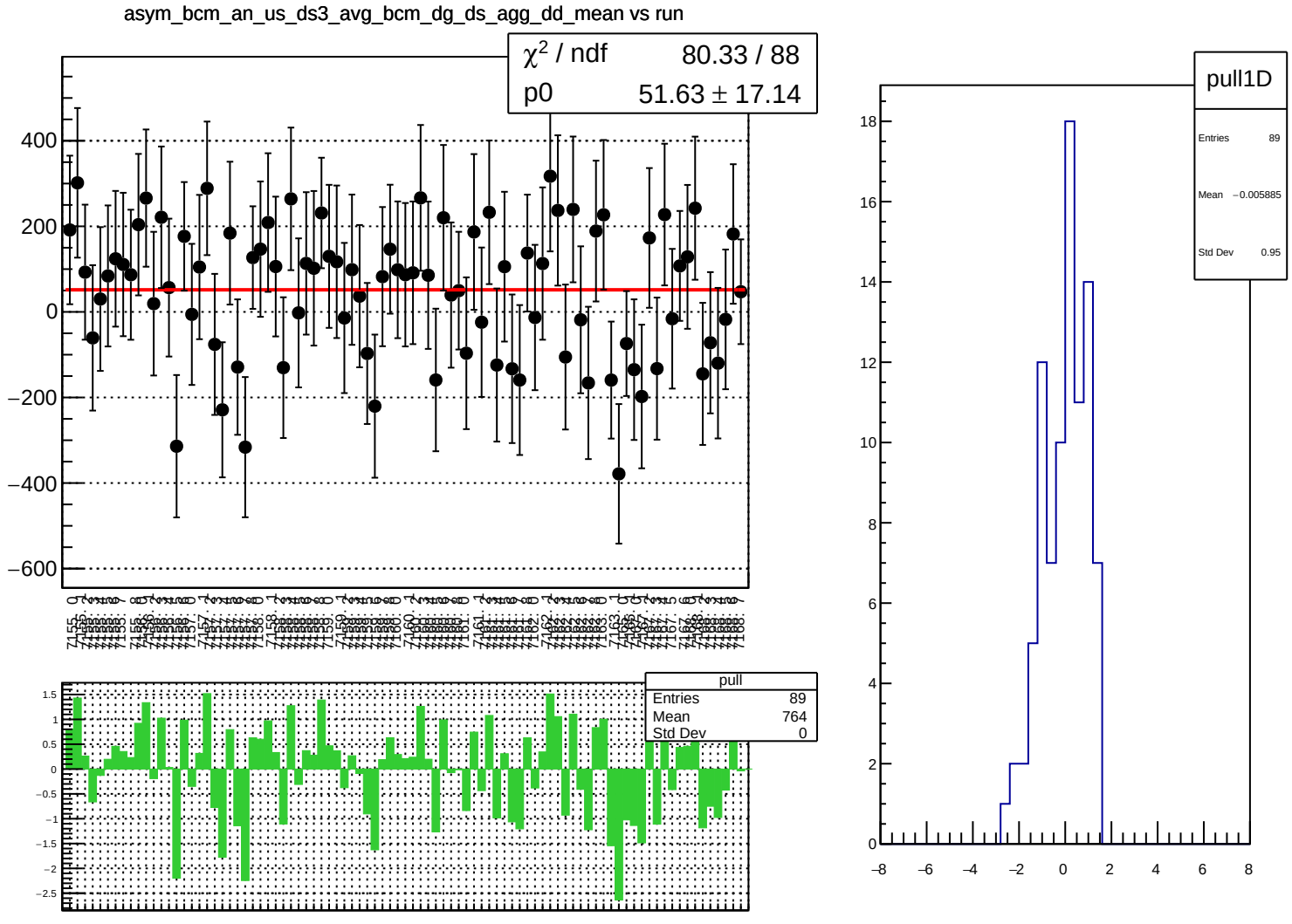

pull1D
Entries 89
Mean −0.004039
Std Dev 0.965

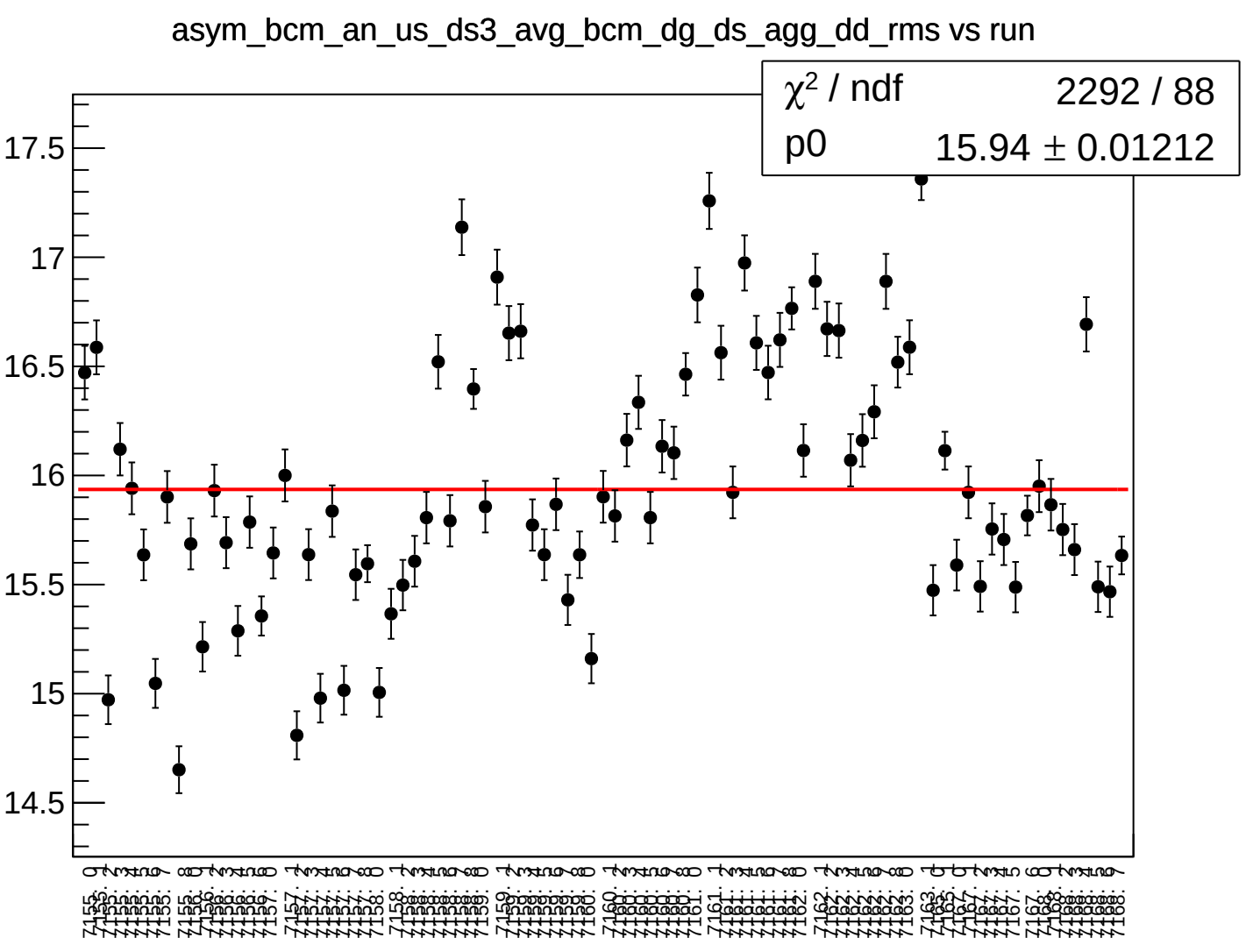

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2376 / 88
p0 16.03 ± 0.0122
17.5
17
16.5
16
15.5
15

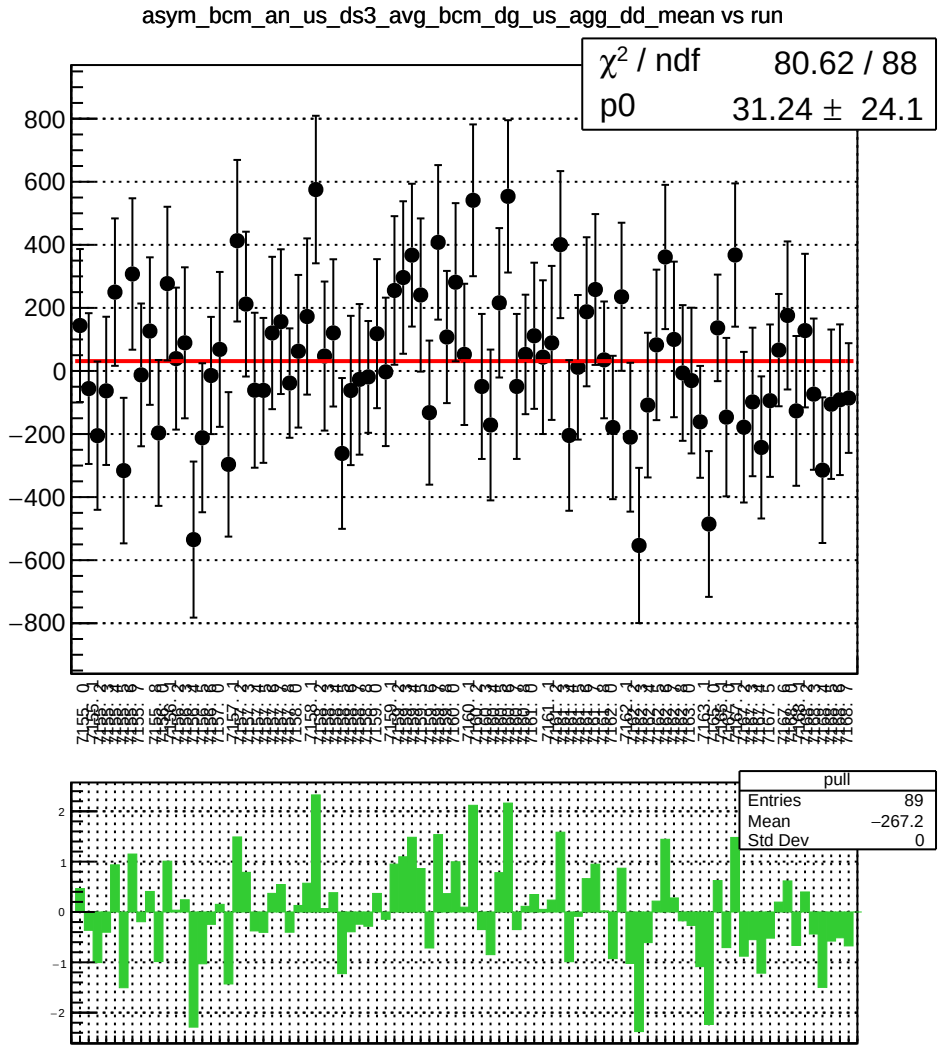

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.28 / 88
p0 28.17 ± 24.26
pull
Entries 89
Mean −259.7
Std Dev 0

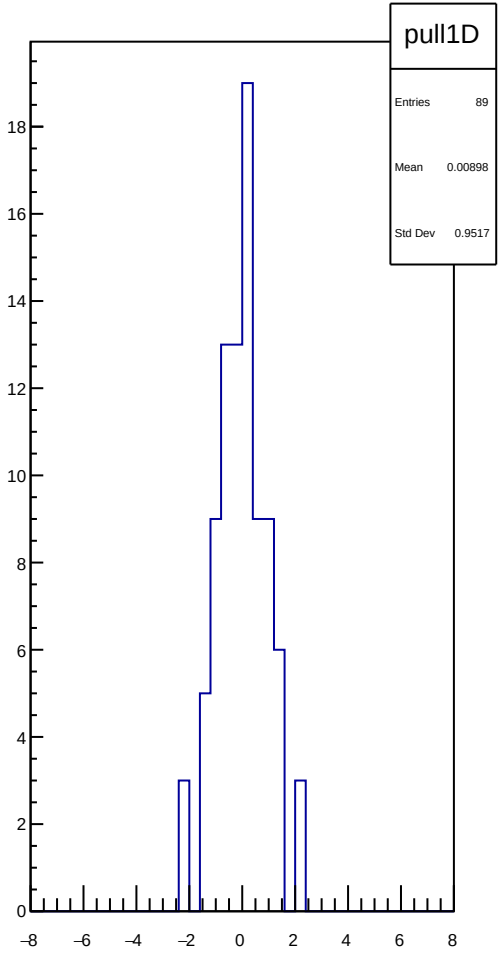

pull1D
Entries 89
Mean 0.009627
Std Dev 0.9615

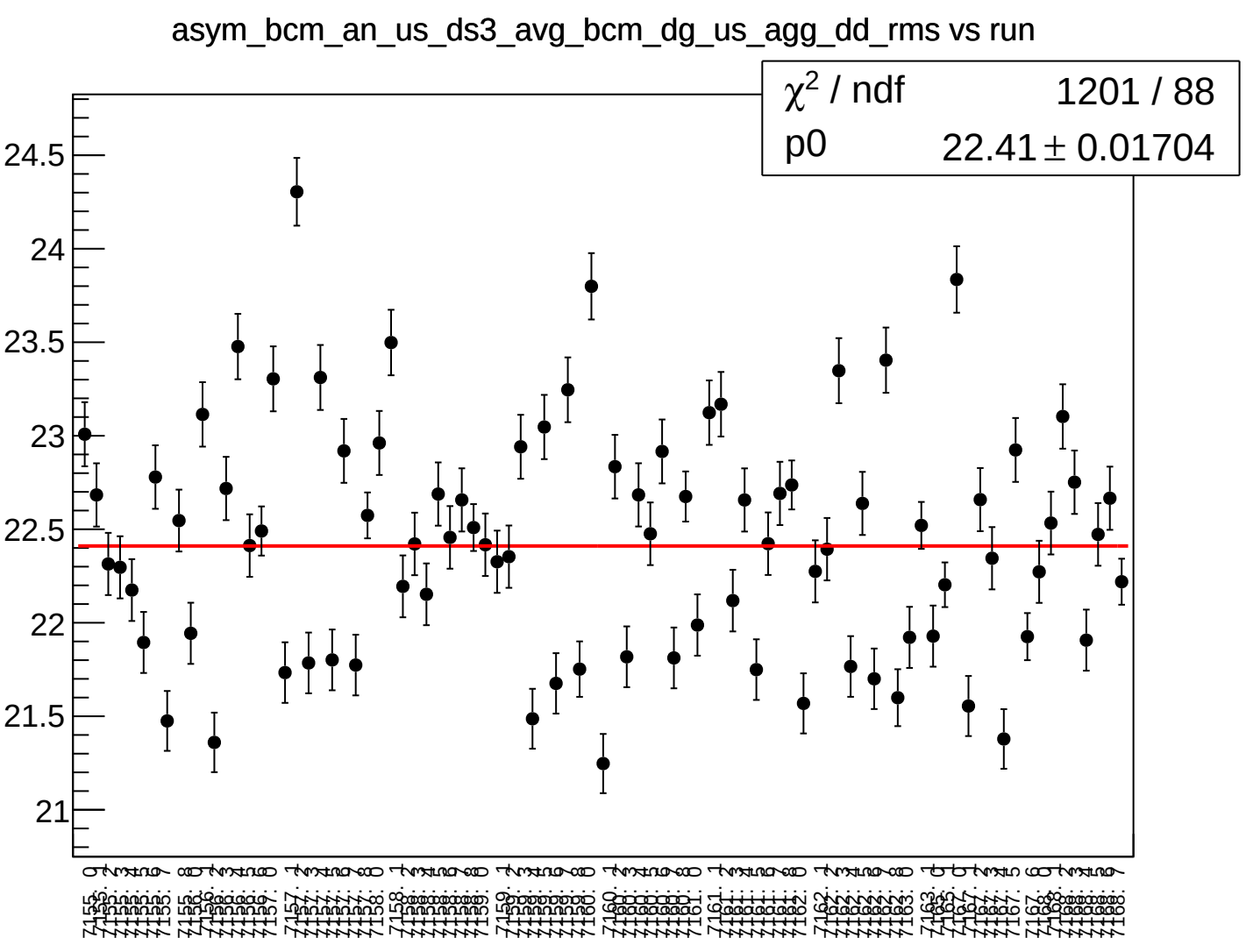

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1289 / 88
p0 22.55 ± 0.01715
25
24.5
24
23.5
23
22.5
22
21.5
21

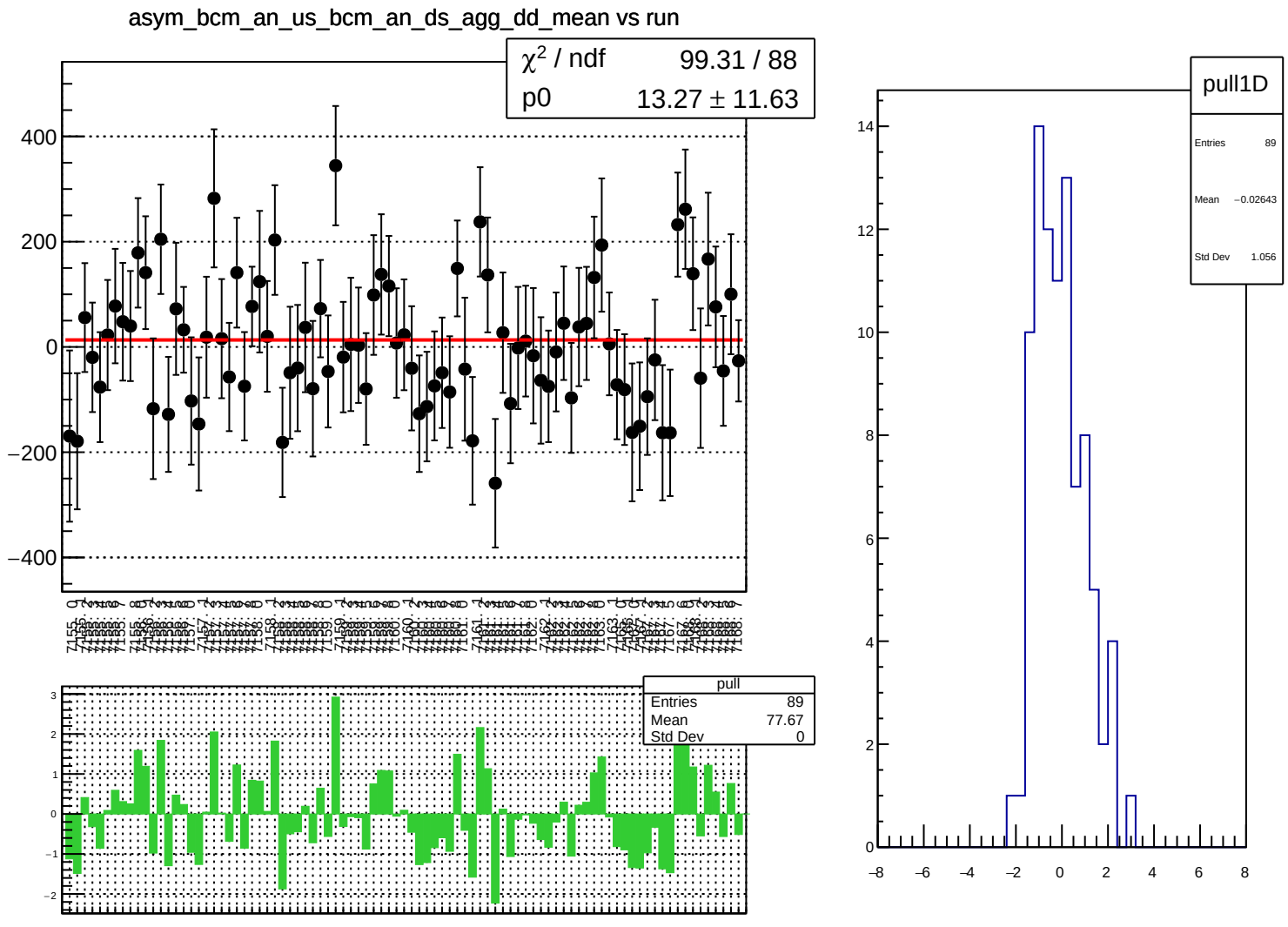

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.33 / 88
p0 51.63 ± 17.14
pull
Entries 89
Mean 764
Std Dev 0
pull1D
Entries 89
Mean −0.005885
Std Dev 0.95

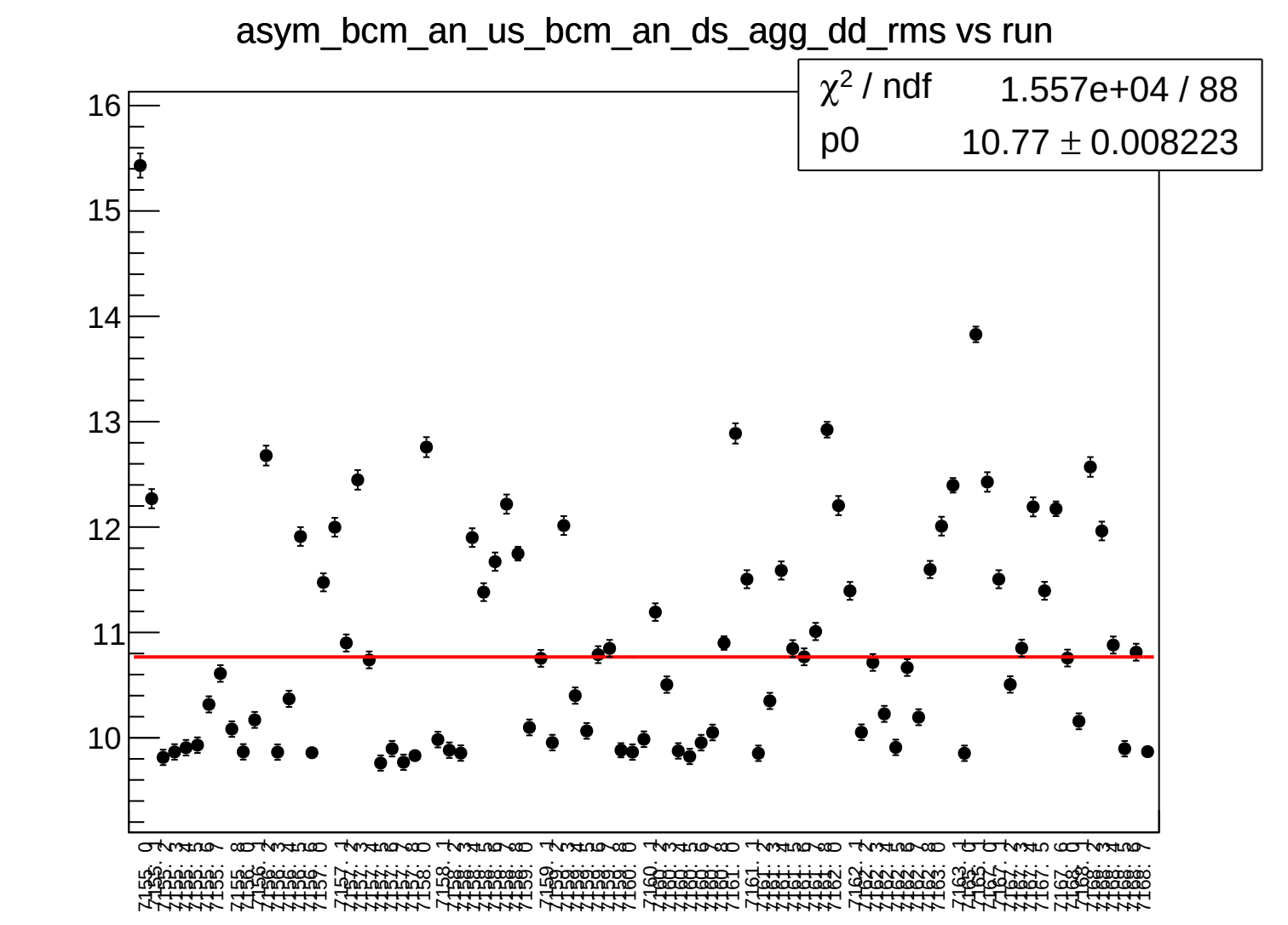

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2292 / 88
p0 15.94 ± 0.01212
17.5
17
16.5
16
15.5
15
14.5

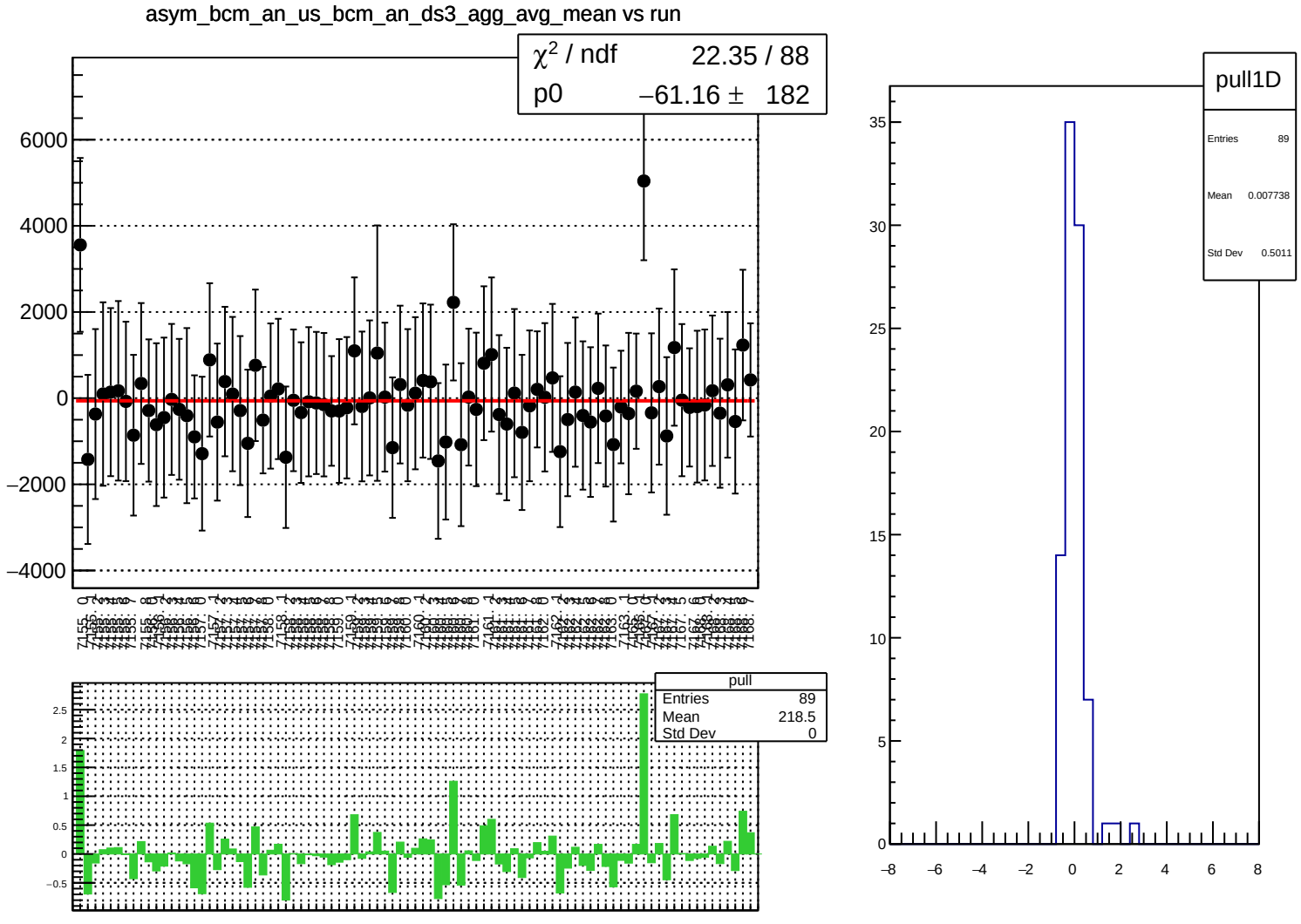

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 80.62 / 88
p0 31.24 ± 24.1
pull
Entries 89
Mean −267.2
Std Dev 0

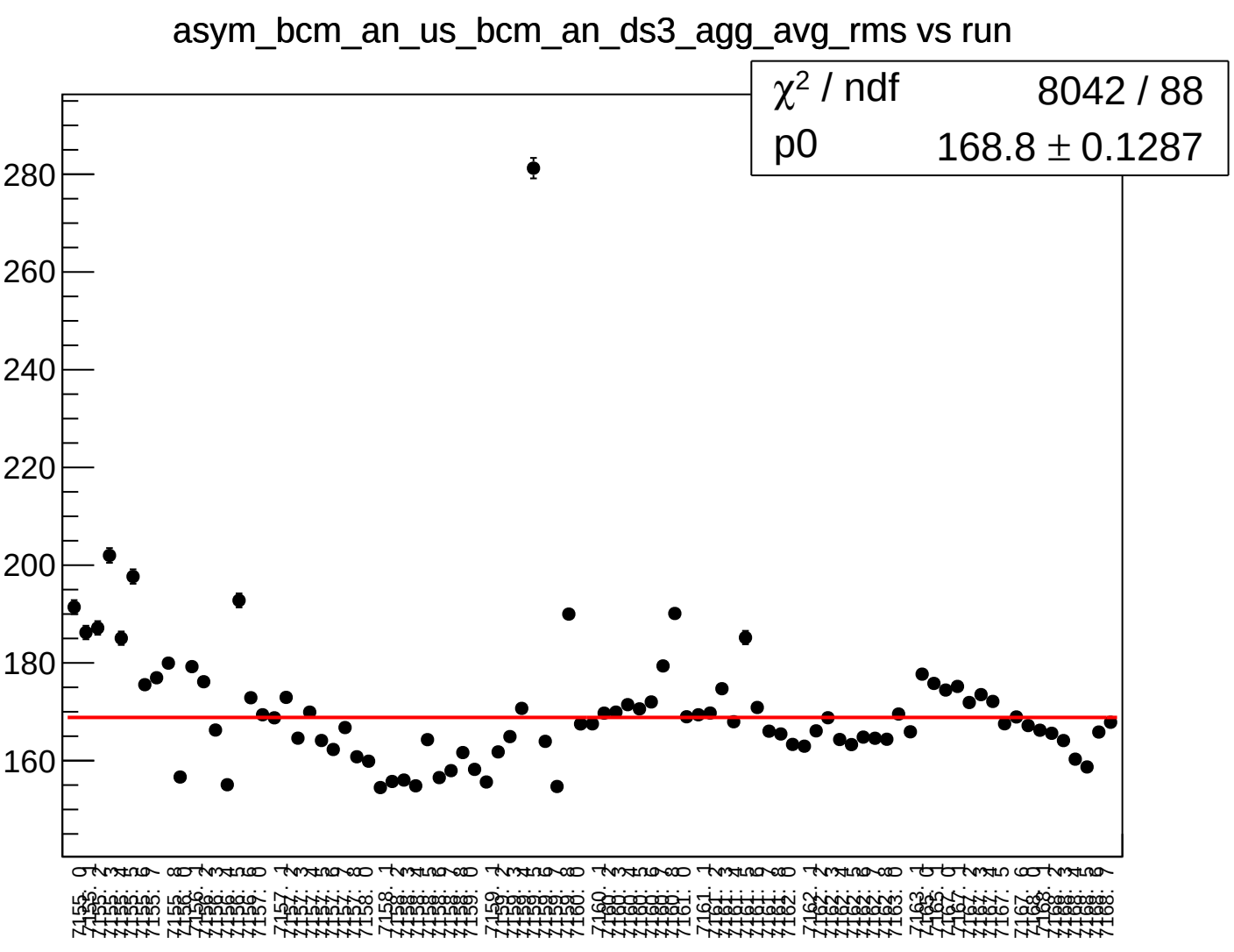

pull1D
Entries 89
Mean 0.00898
Std Dev 0.9517

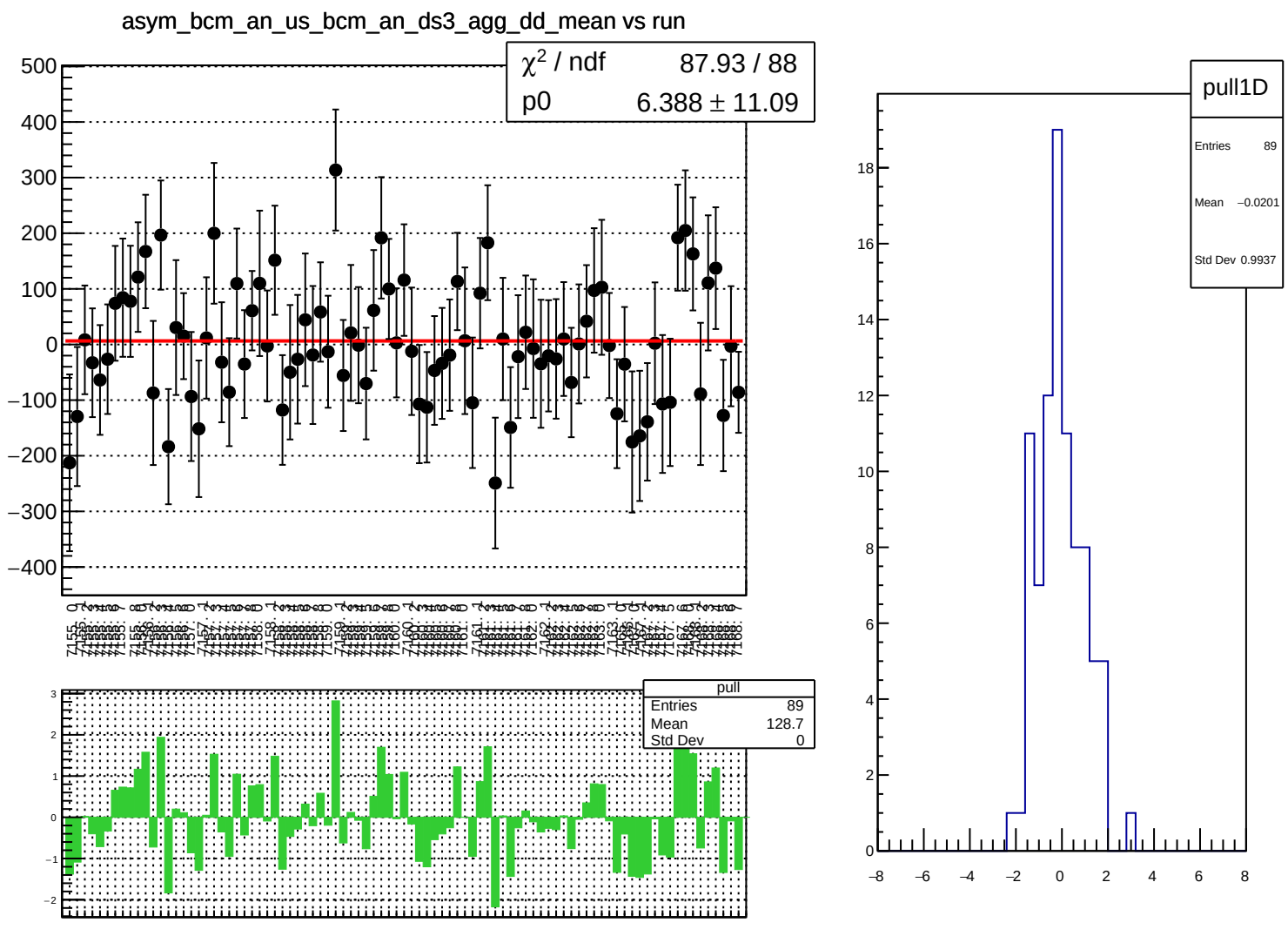

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ2 / ndf 1201 / 88
p0 22.41 ± 0.01704
24.5
24
23.5
23
22.5
22
21.5
21

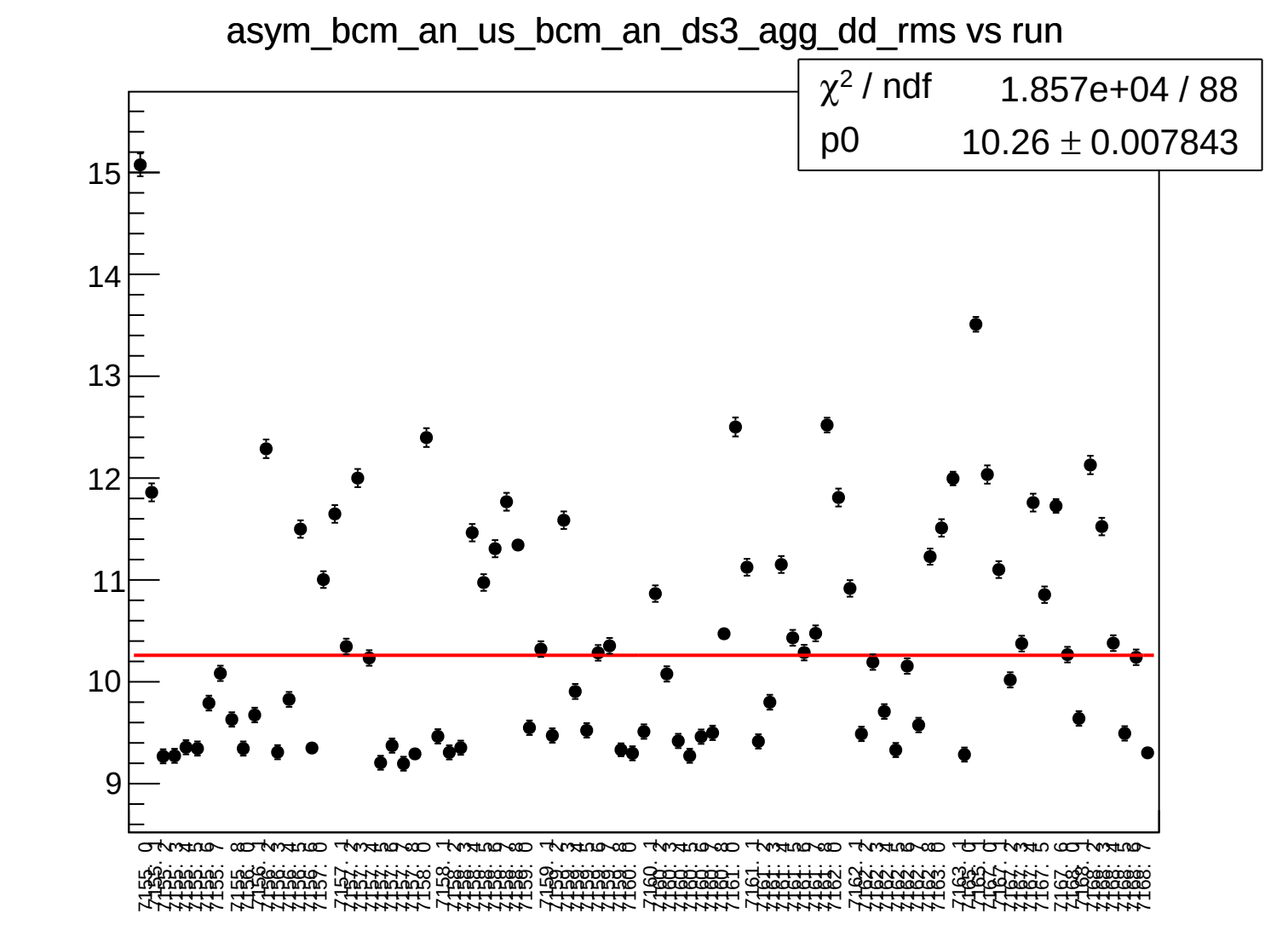

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 99.31 / 88
p0 13.27 ± 11.63
400
200
0
−200
−400
pull
Entries 89
Mean 77.67
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02643
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

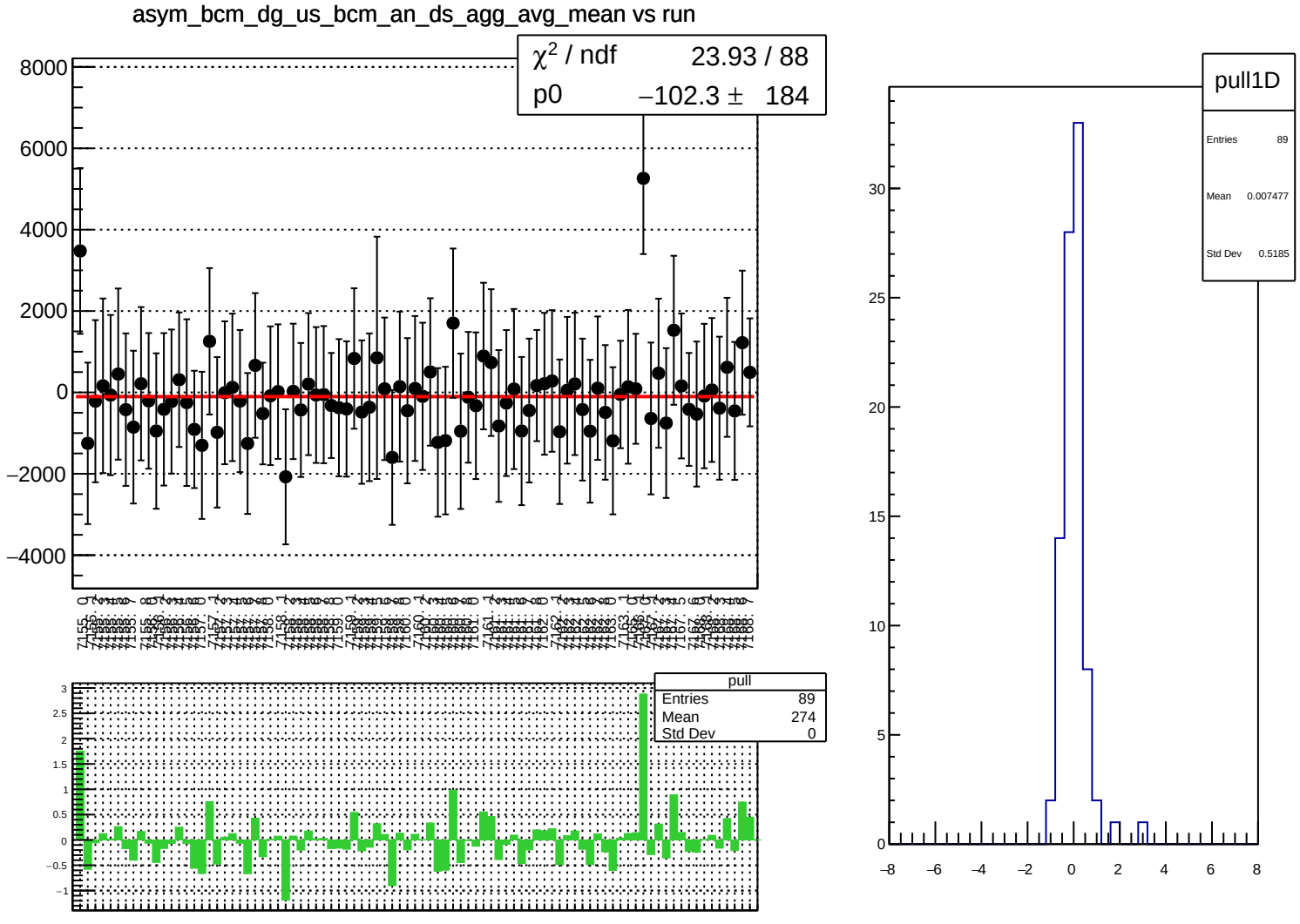

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.557e+04 / 88
p0 10.77 ± 0.008223
16
15
14
13
12
11
10

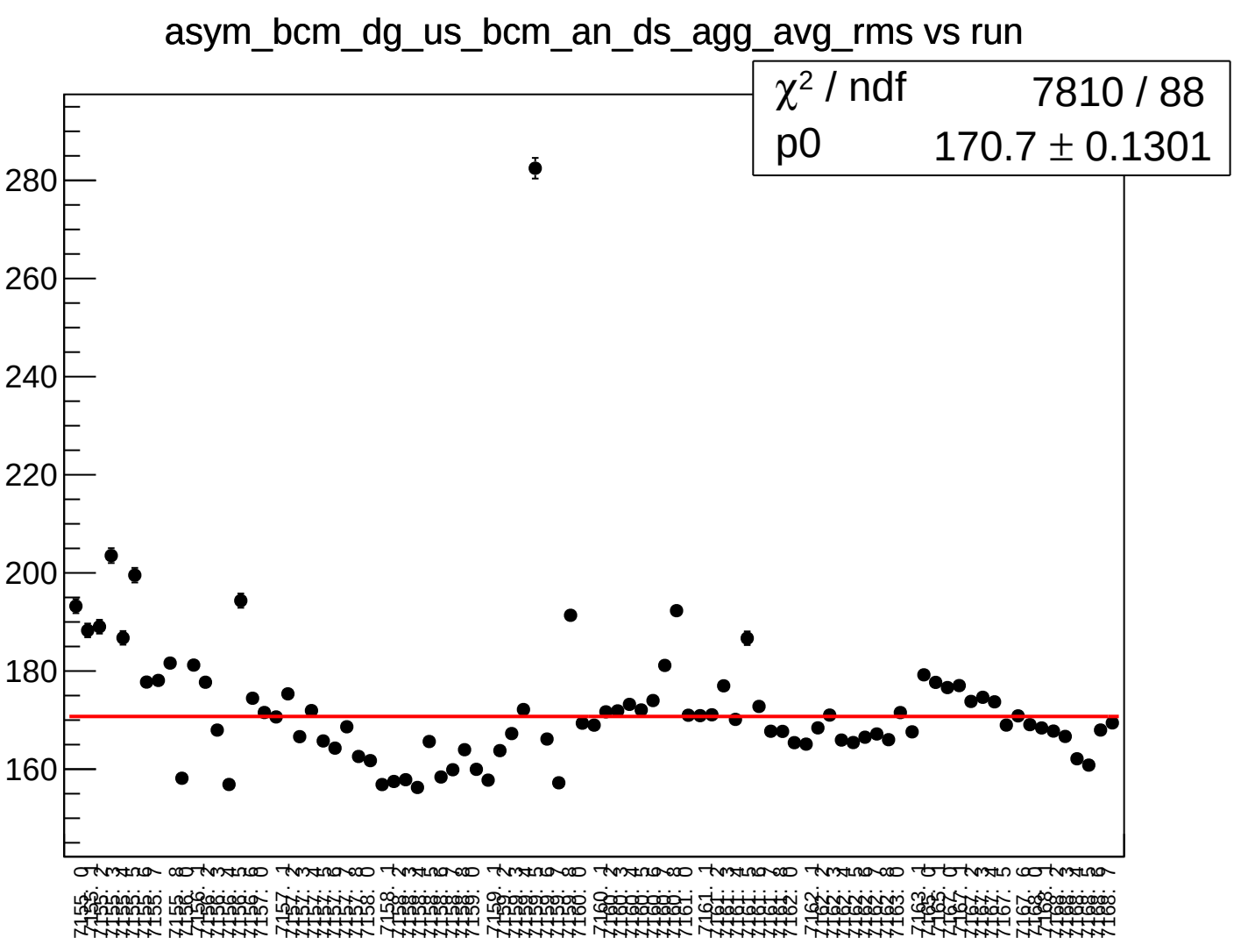

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 22.35 / 88
p0 −61.16 ± 182
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean 0.007738
Std Dev 0.5011
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

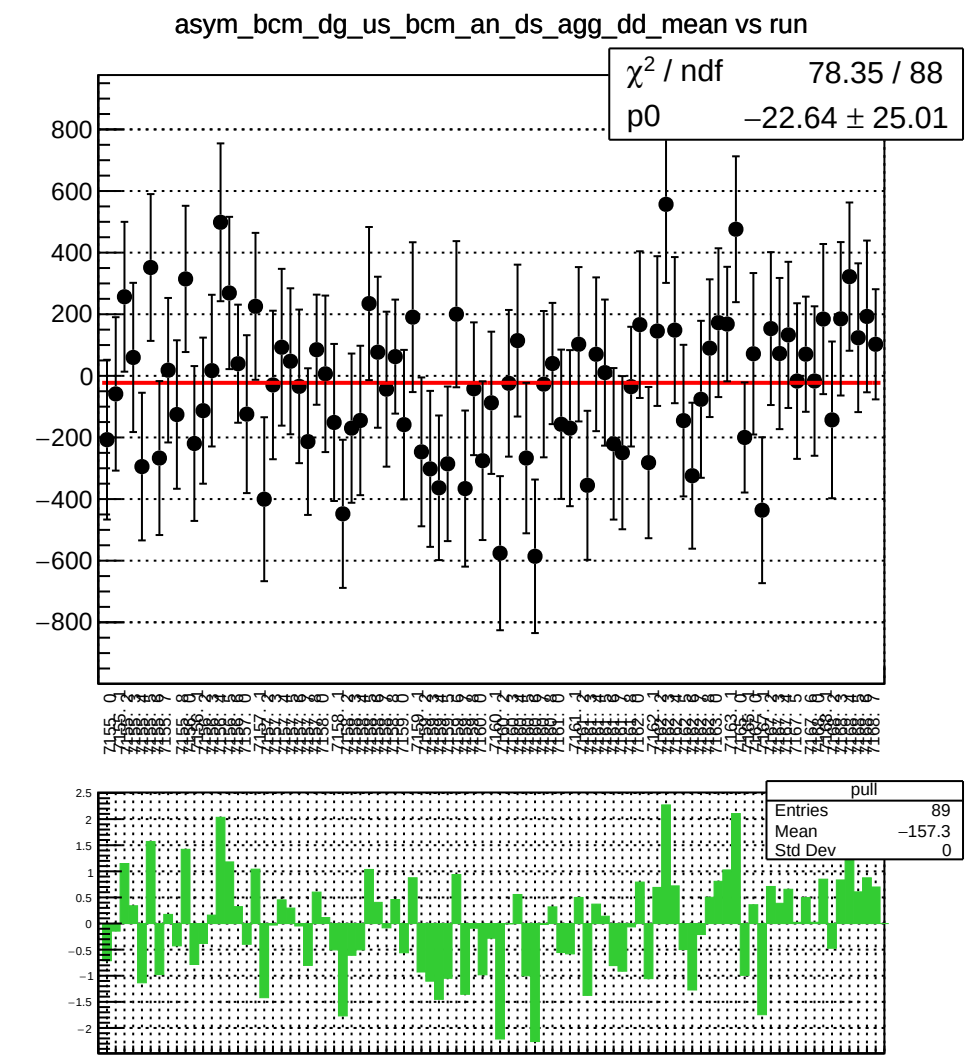

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8042 / 88
p0 168.8 ± 0.1287
280
260
240
220
200
180
160

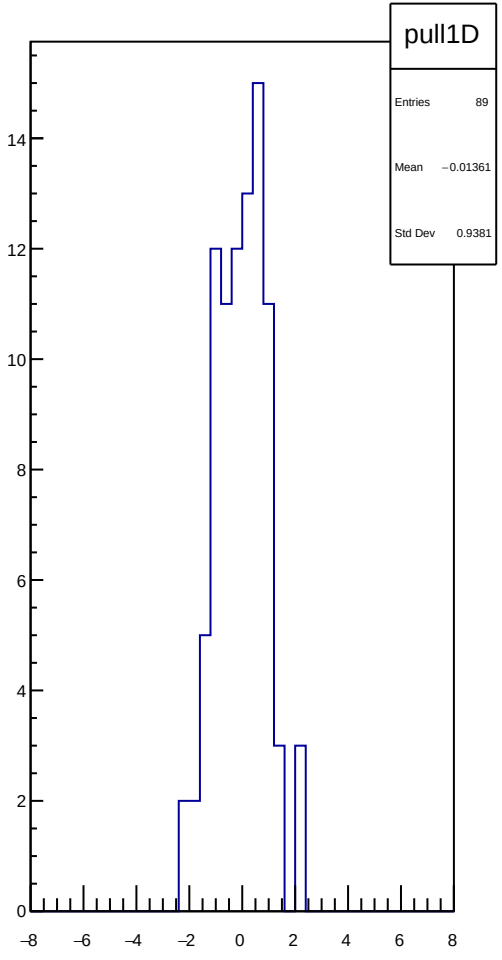

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 87.93 / 88
p0 6.388 ± 11.09
pull
Entries 89
Mean 128.7
Std Dev 0
pull1D
Entries 89
Mean −0.0201
Std Dev 0.9937

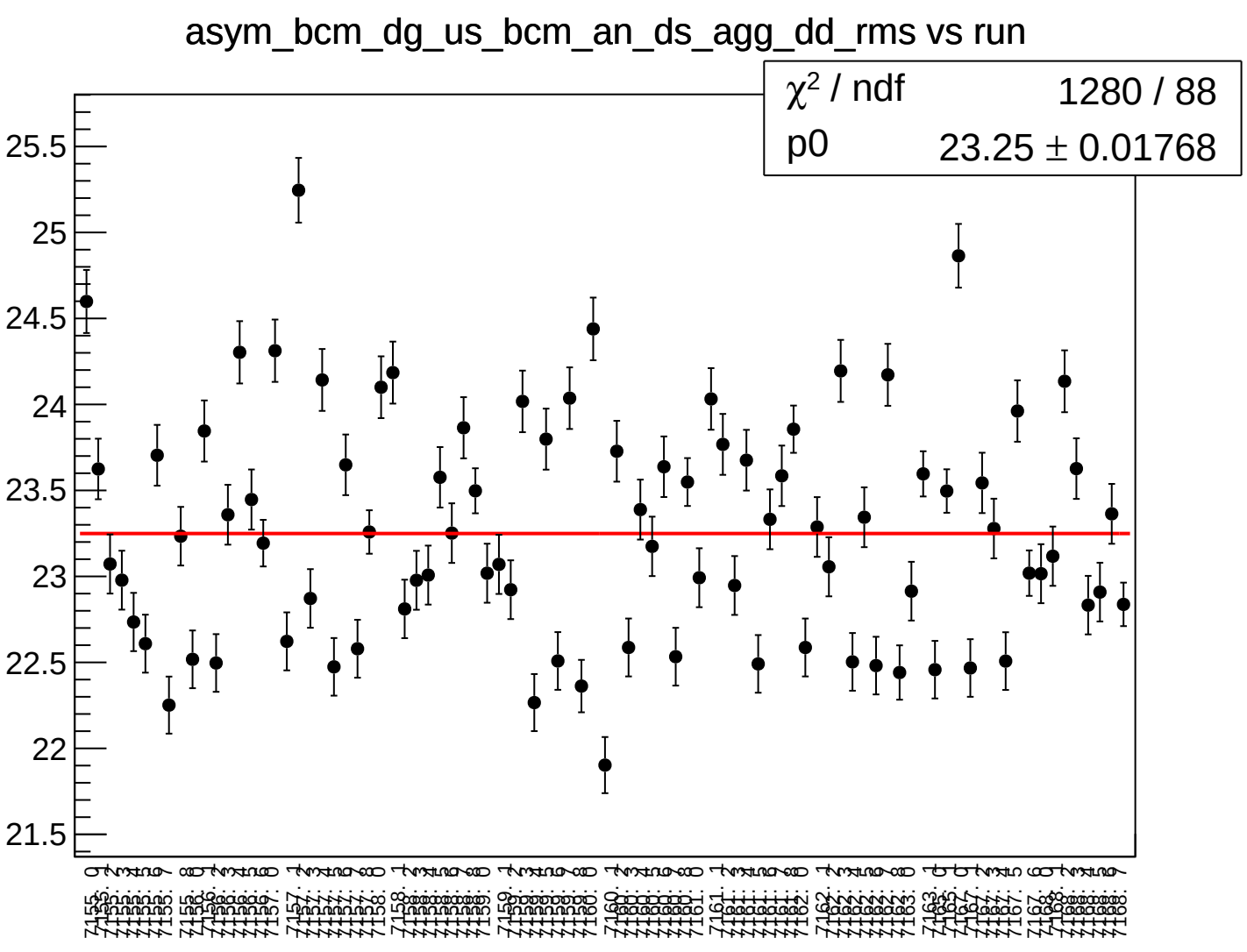

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.857e+04 / 88
p0 10.26 ± 0.007843
15
14
13
12
11
10
9

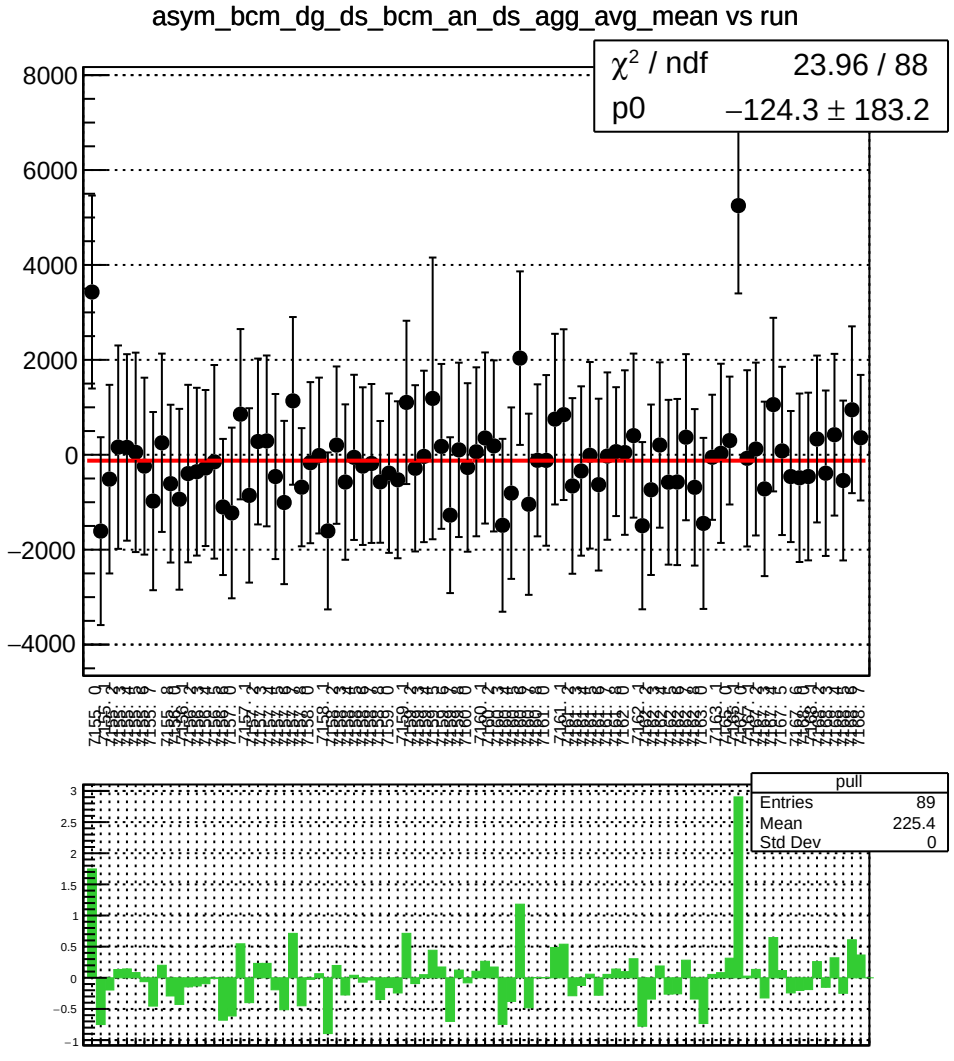

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.93 / 88
p0 −102.3 ± 184
pull
Entries 89
Mean 274
Std Dev 0
pull1D
Entries 89
Mean 0.007477
Std Dev 0.5185

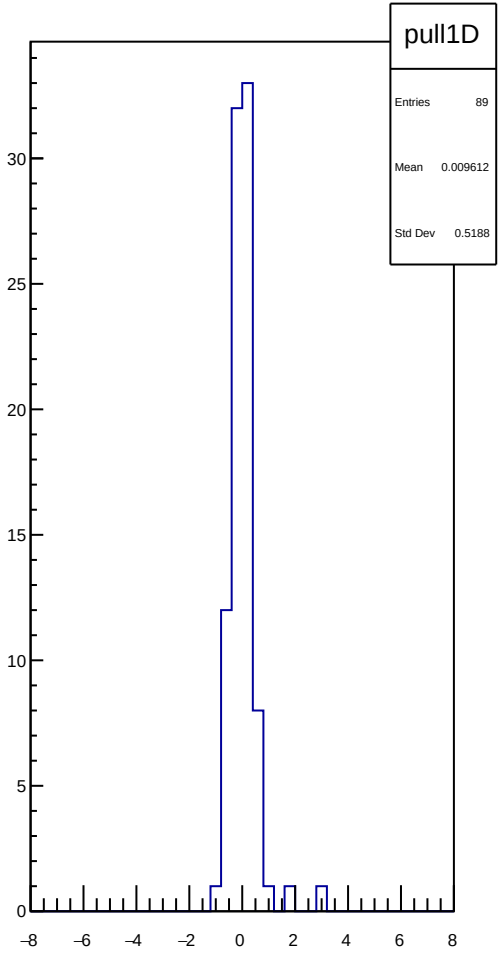

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7810 / 88
p0 170.7 ± 0.1301
280
260
240
220
200
180
160

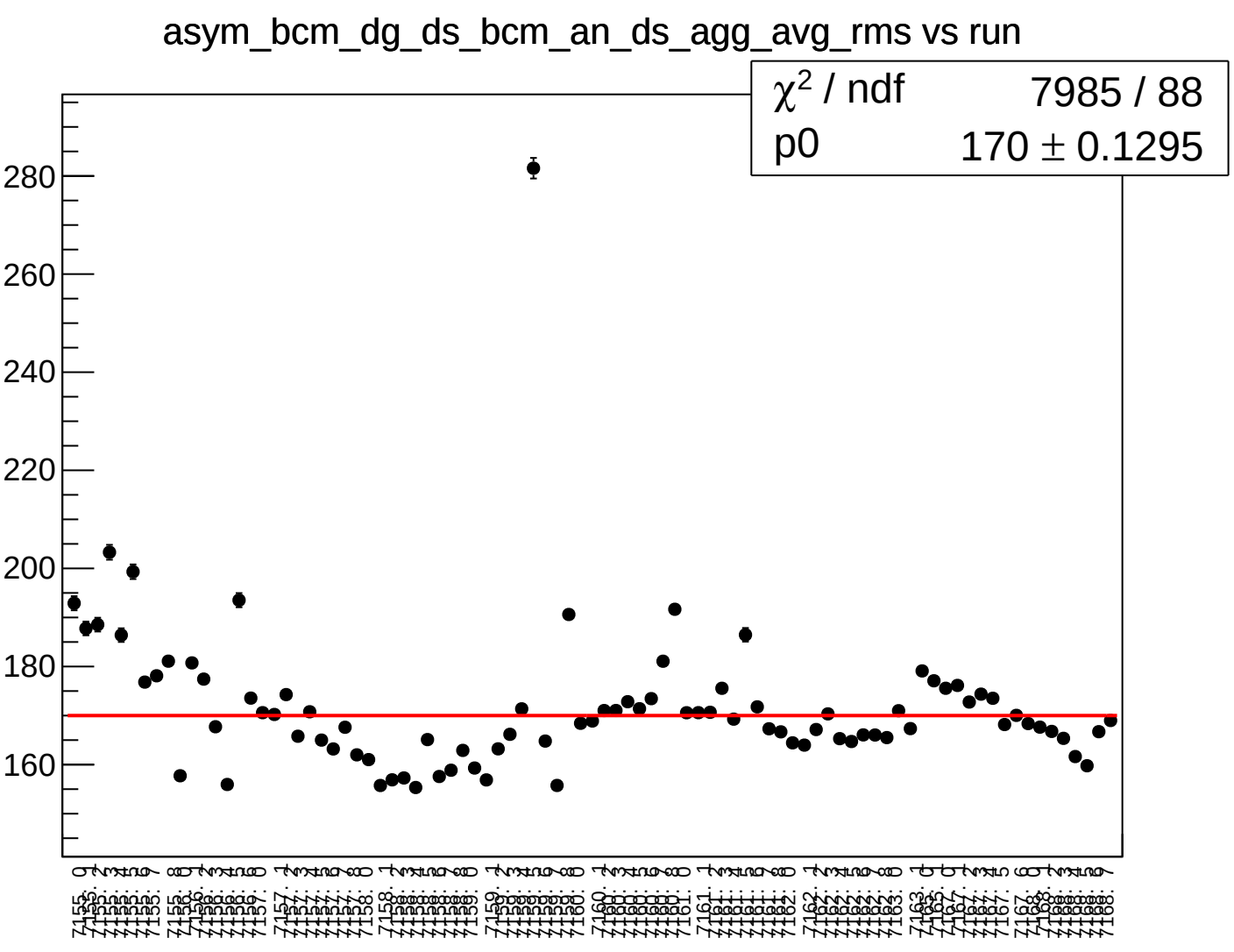

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.35 / 88
p0 −22.64 ± 25.01
pull
Entries 89
Mean −157.3
Std Dev 0

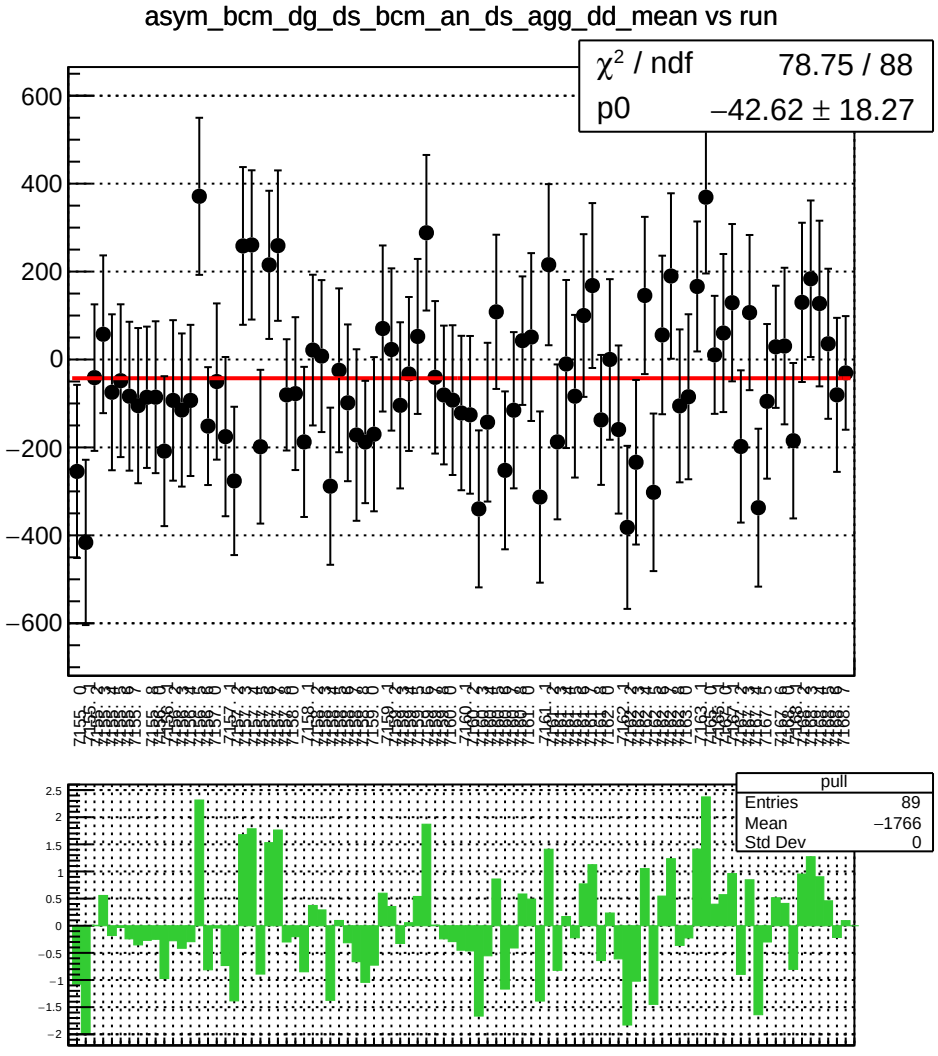

pull1D
Entries 89
Mean −0.01361
Std Dev 0.9381

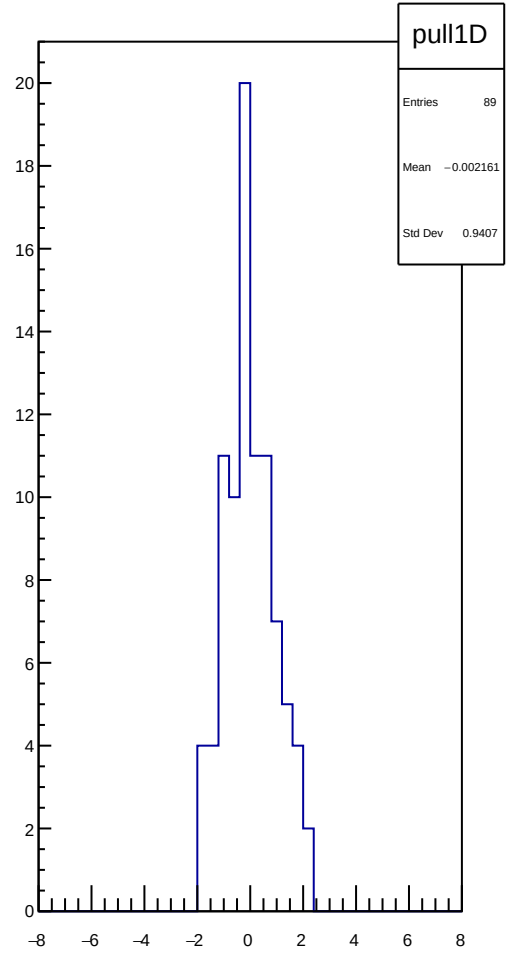

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1280 / 88
p0 23.25 ± 0.01768
25.5
25
24.5
24
23.5
23
22.5
22
21.5

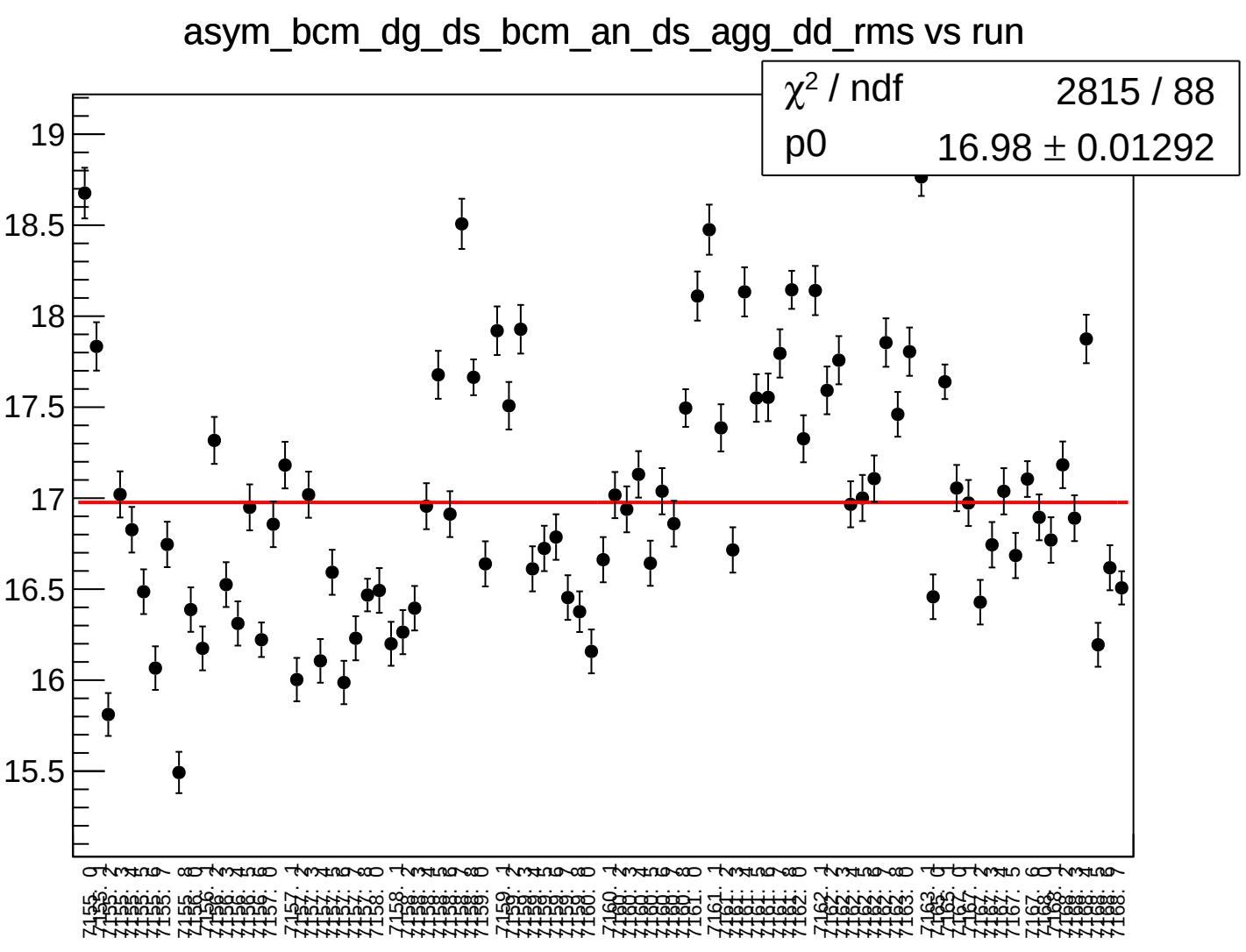

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.96 / 88
p0 −124.3 ± 183.2
pull
Entries 89
Mean 225.4
Std Dev 0

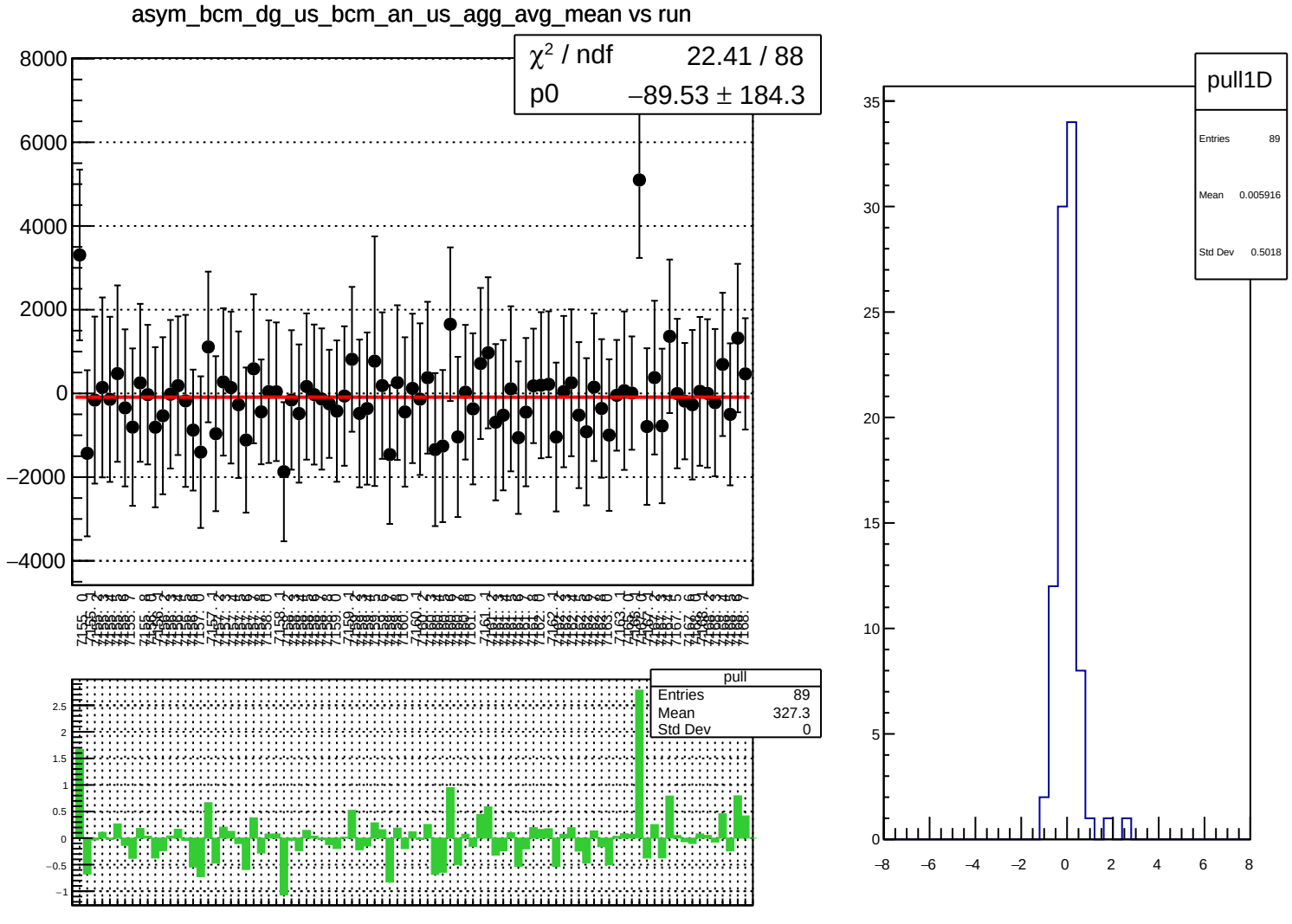

pull1D
Entries 89
Mean 0.009612
Std Dev 0.5188

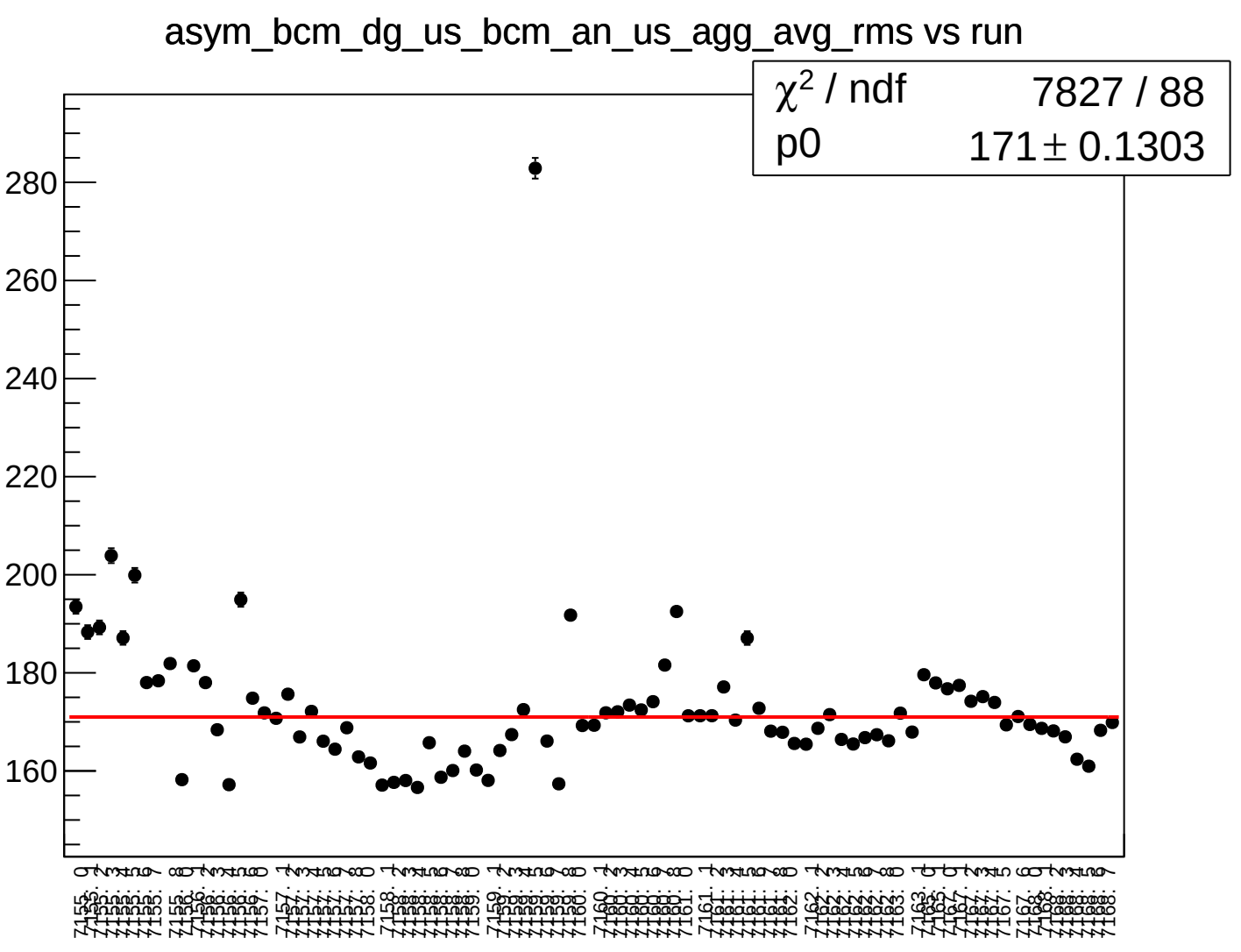

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 7985 / 88
p0 170 ± 0.1295
280
260
240
220
200
180
160

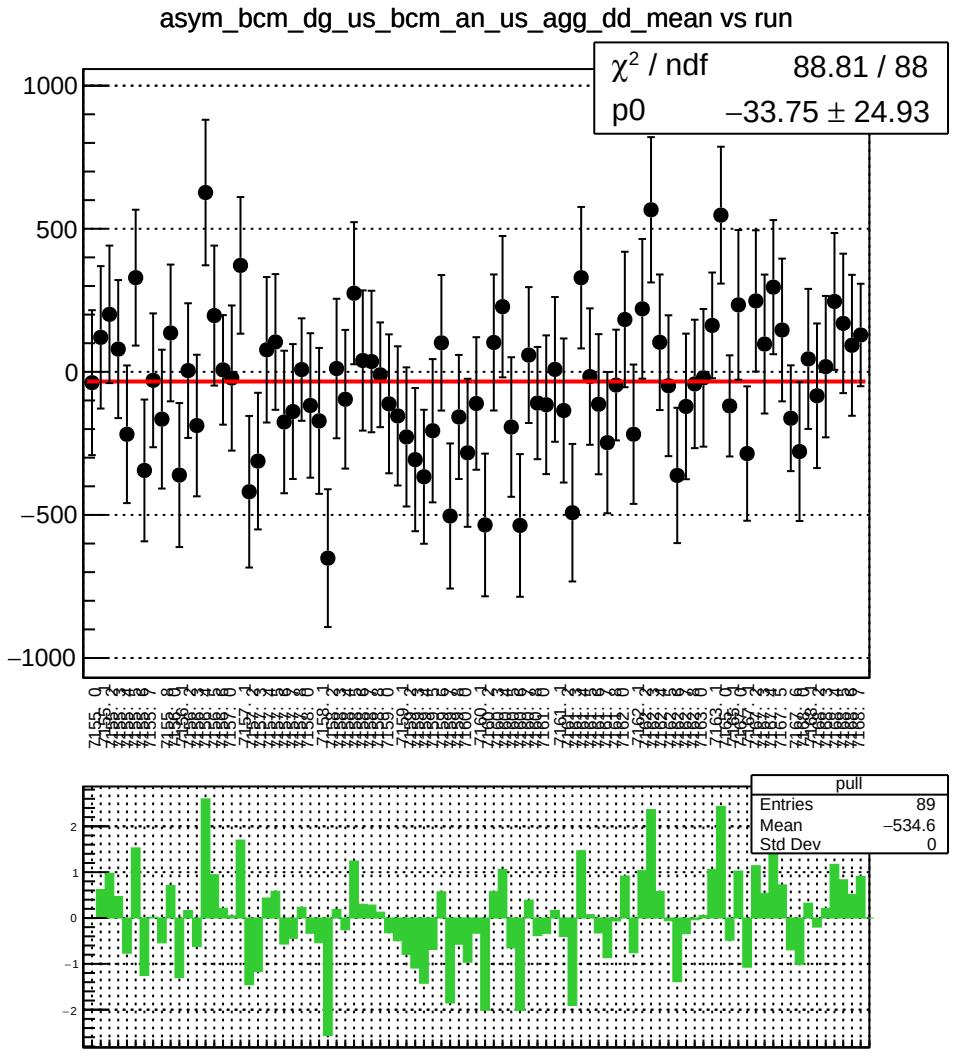

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.75 / 88
p0 −42.62 ± 18.27
pull
Entries 89
Mean −1766
Std Dev 0

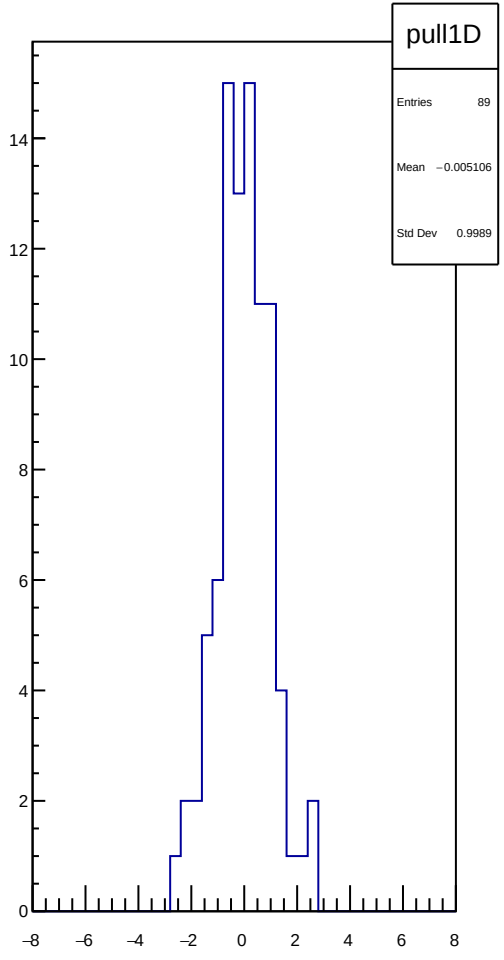

pull1D
Entries 89
Mean −0.002161
Std Dev 0.9407

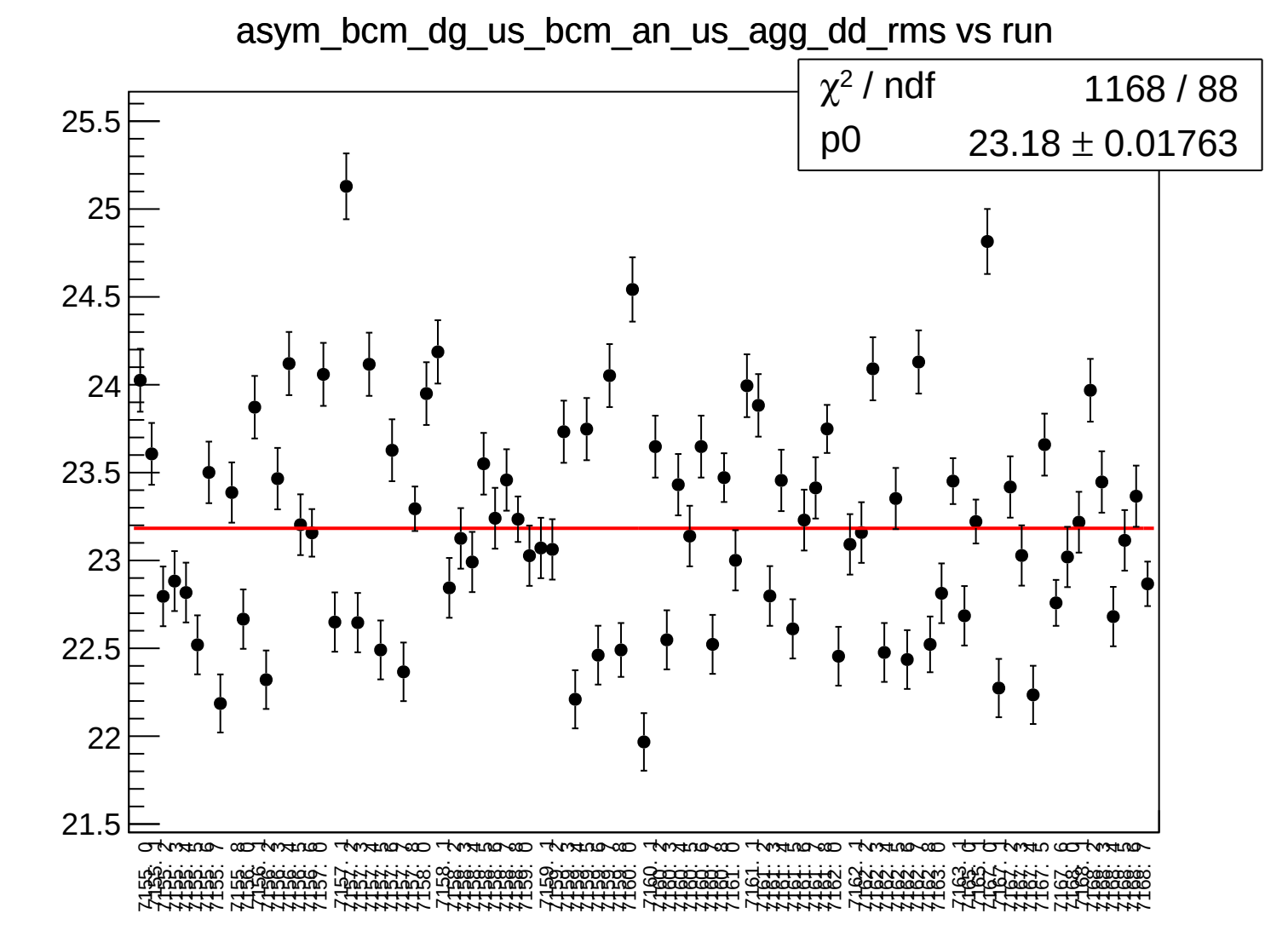

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2815 / 88
p0 16.98 ± 0.01292
19
18.5
18
17.5
17
16.5
16
15.5

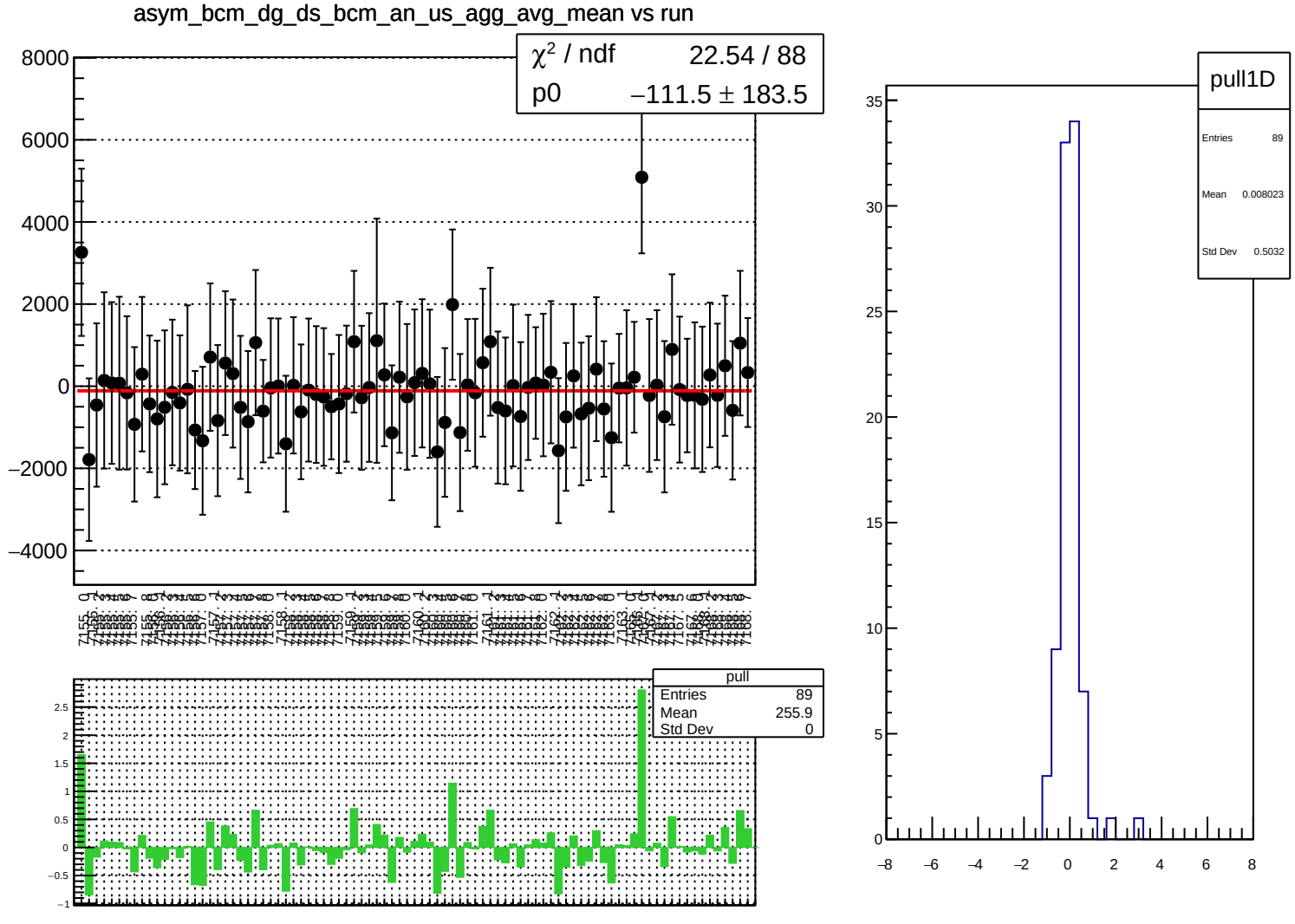

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.41 / 88
p0 −89.53 ± 184.3
pull
Entries 89
Mean 327.3
Std Dev 0
pull1D
Entries 89
Mean 0.005916
Std Dev 0.5018

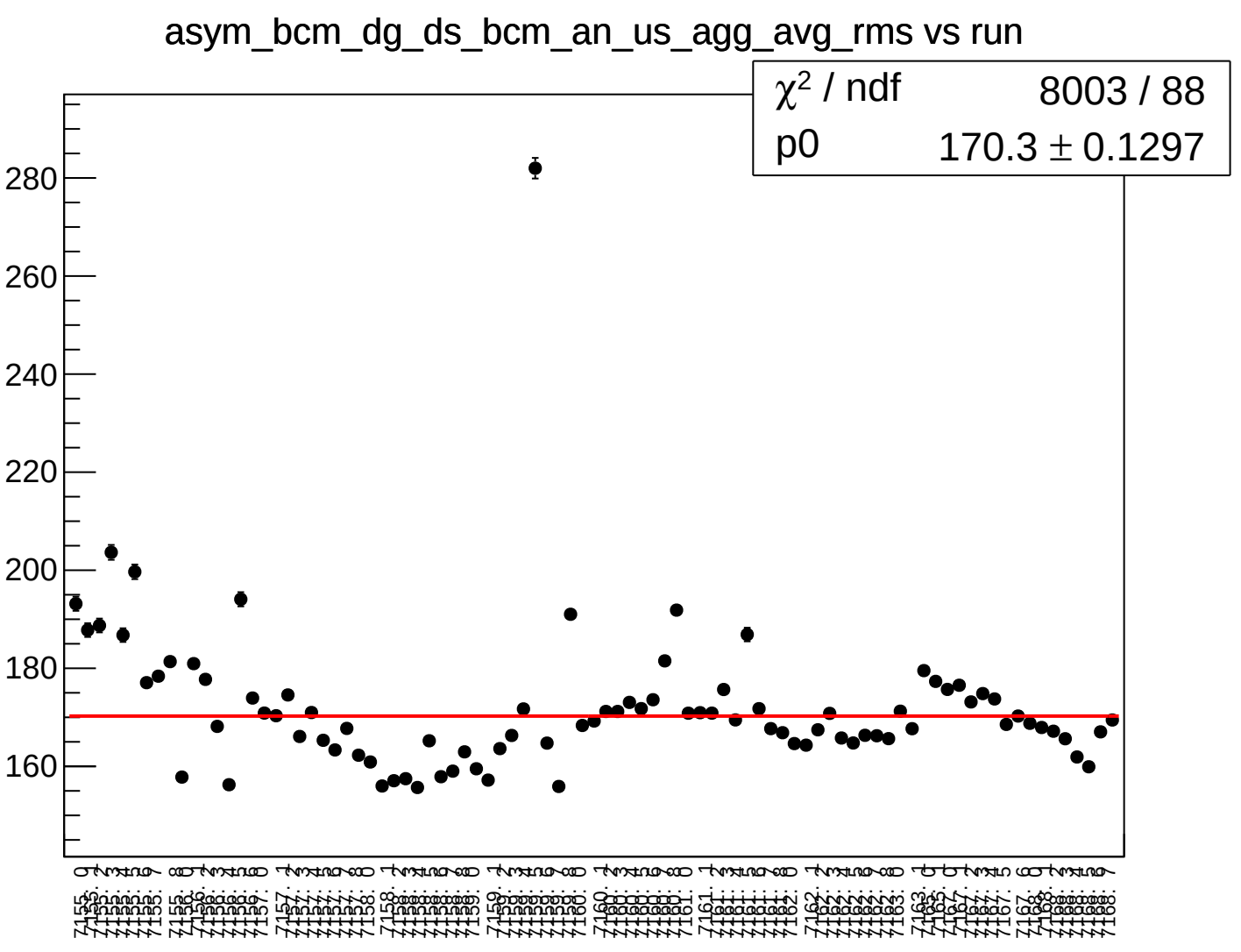

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7827 / 88
p0 171 ± 0.1303
280
260
240
220
200
180
160

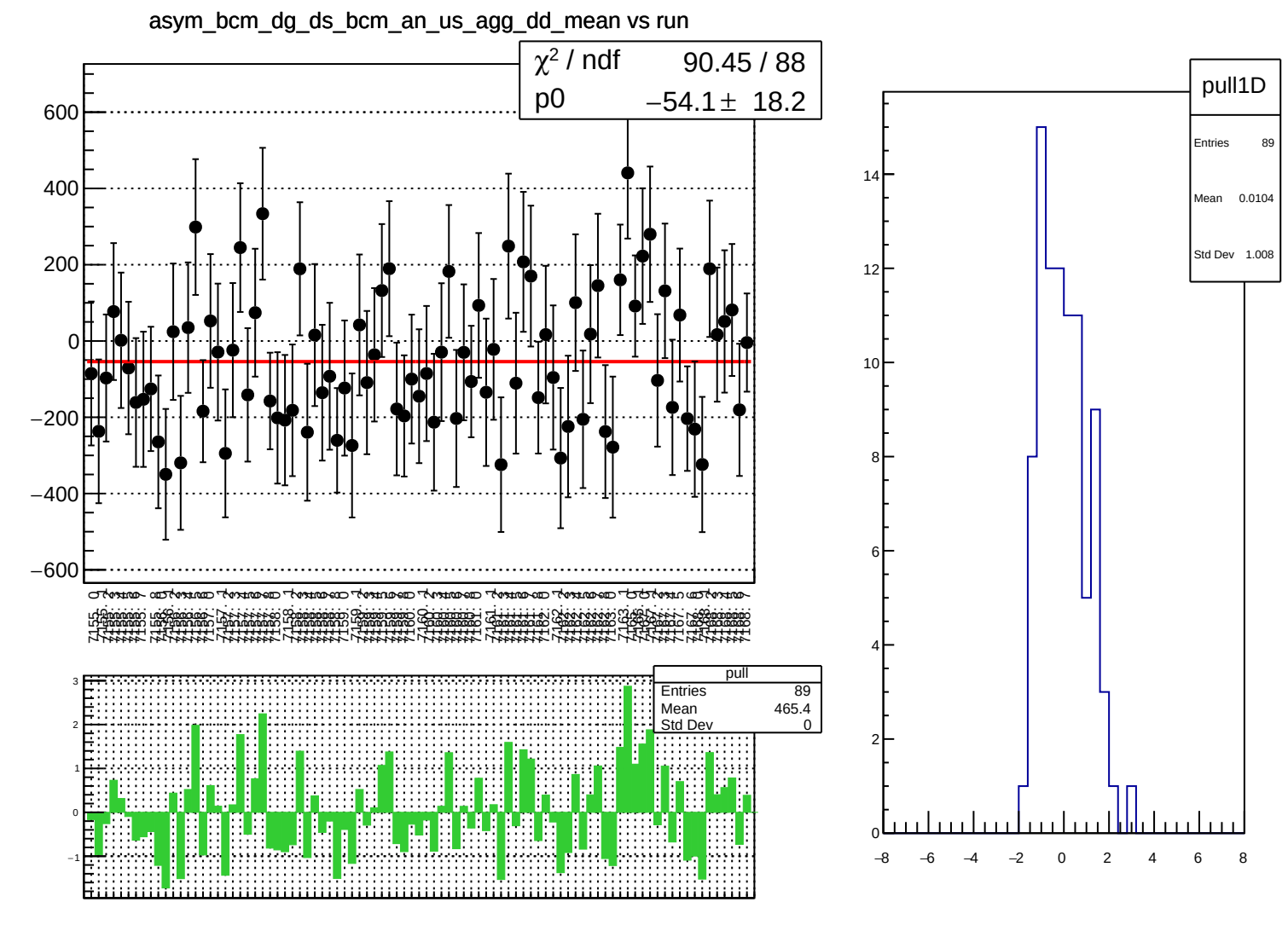

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.81 / 88
p0 −33.75 ± 24.93
1000
500
0
−500
−1000
pull
Entries 89
Mean −534.6
Std Dev 0
2
1
0
−1
−2

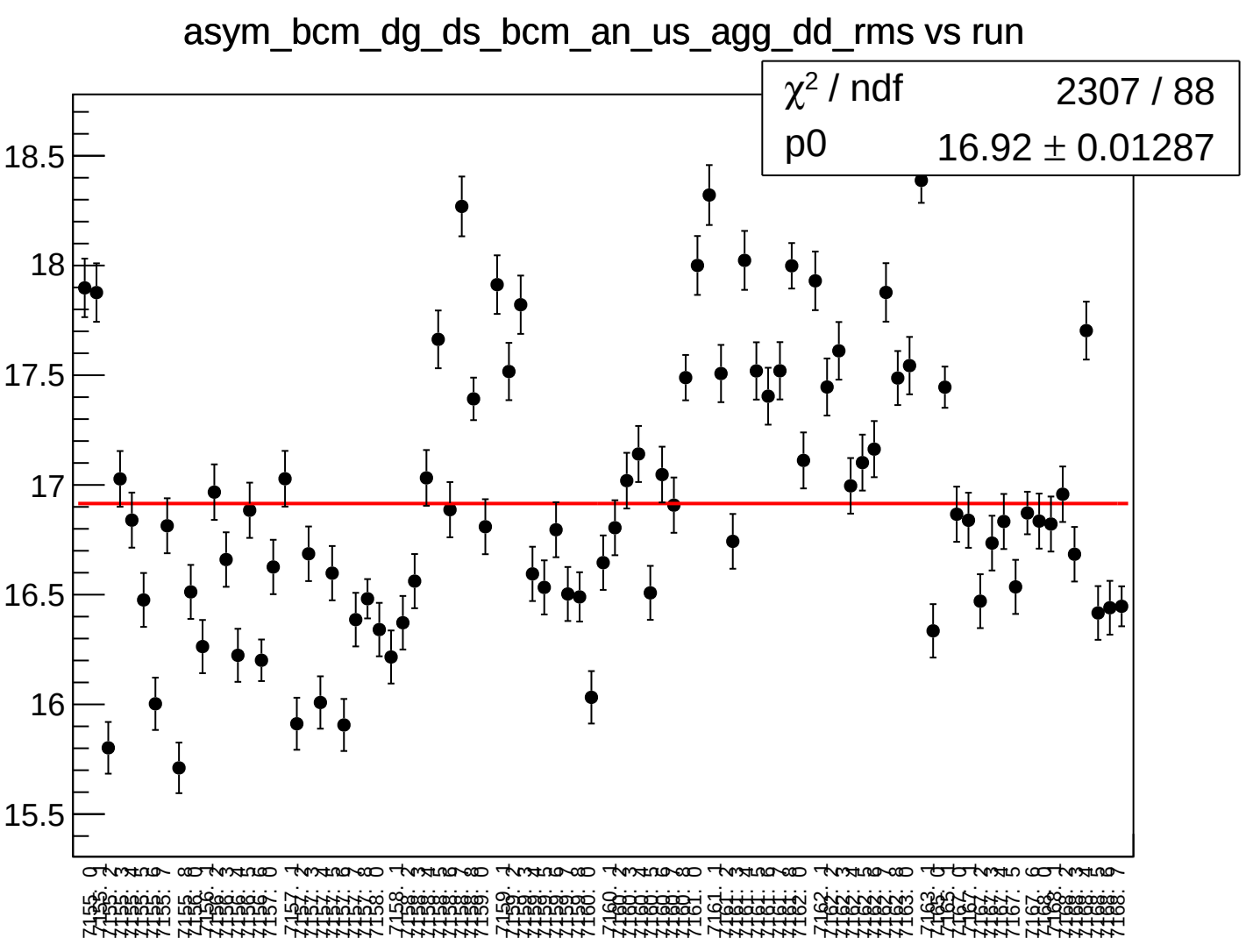

pull1D
Entries 89
Mean −0.005106
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

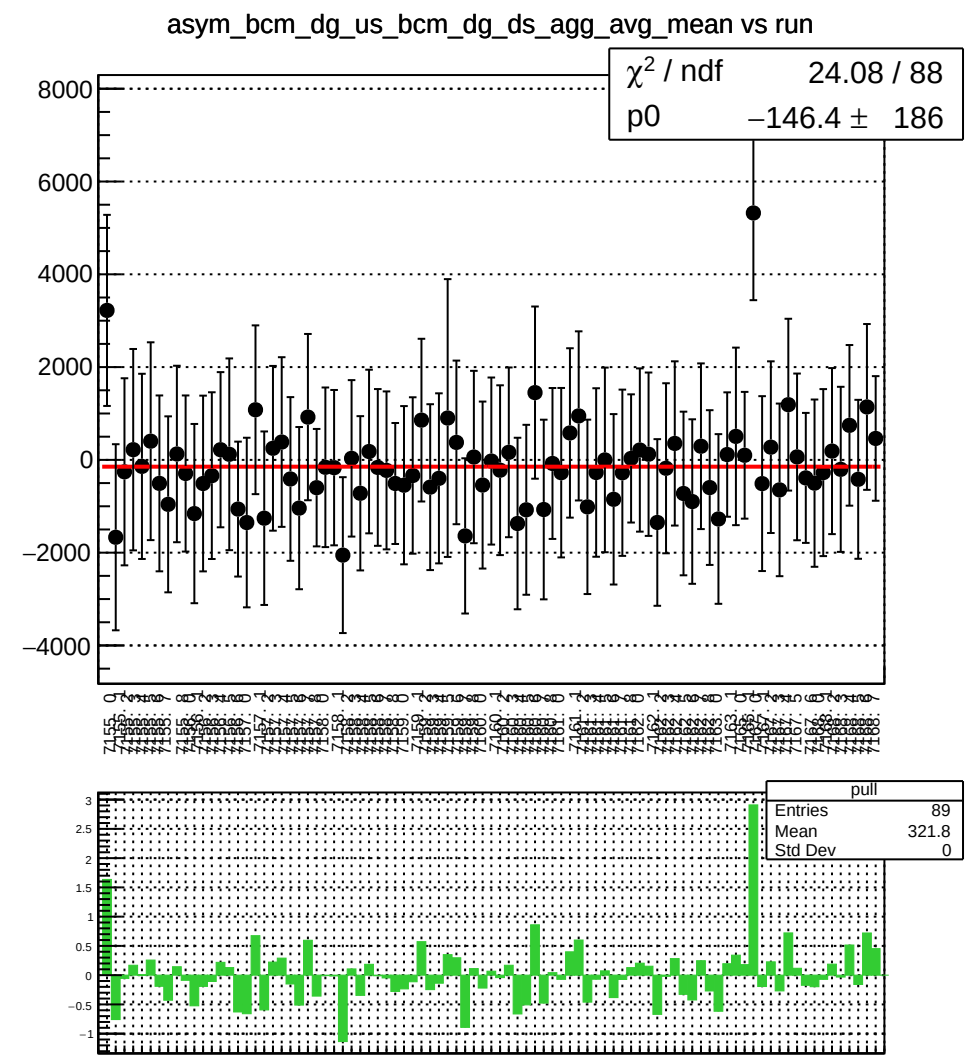

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1168 / 88
p0 23.18 ± 0.01763
25.5
25
24.5
24
23.5
23
22.5
22
21.5

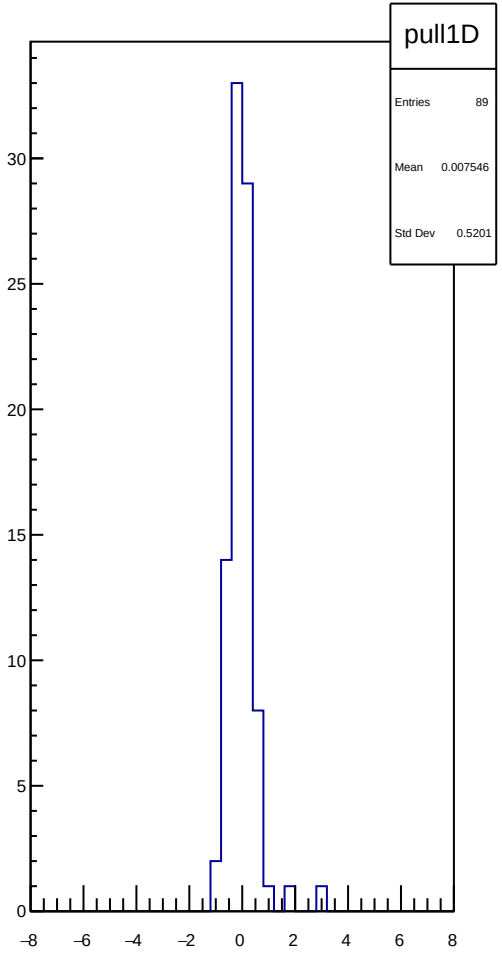

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.54 / 88
p0 −111.5 ± 183.5
pull
Entries 89
Mean 255.9
Std Dev 0
pull1D
Entries 89
Mean 0.008023
Std Dev 0.5032

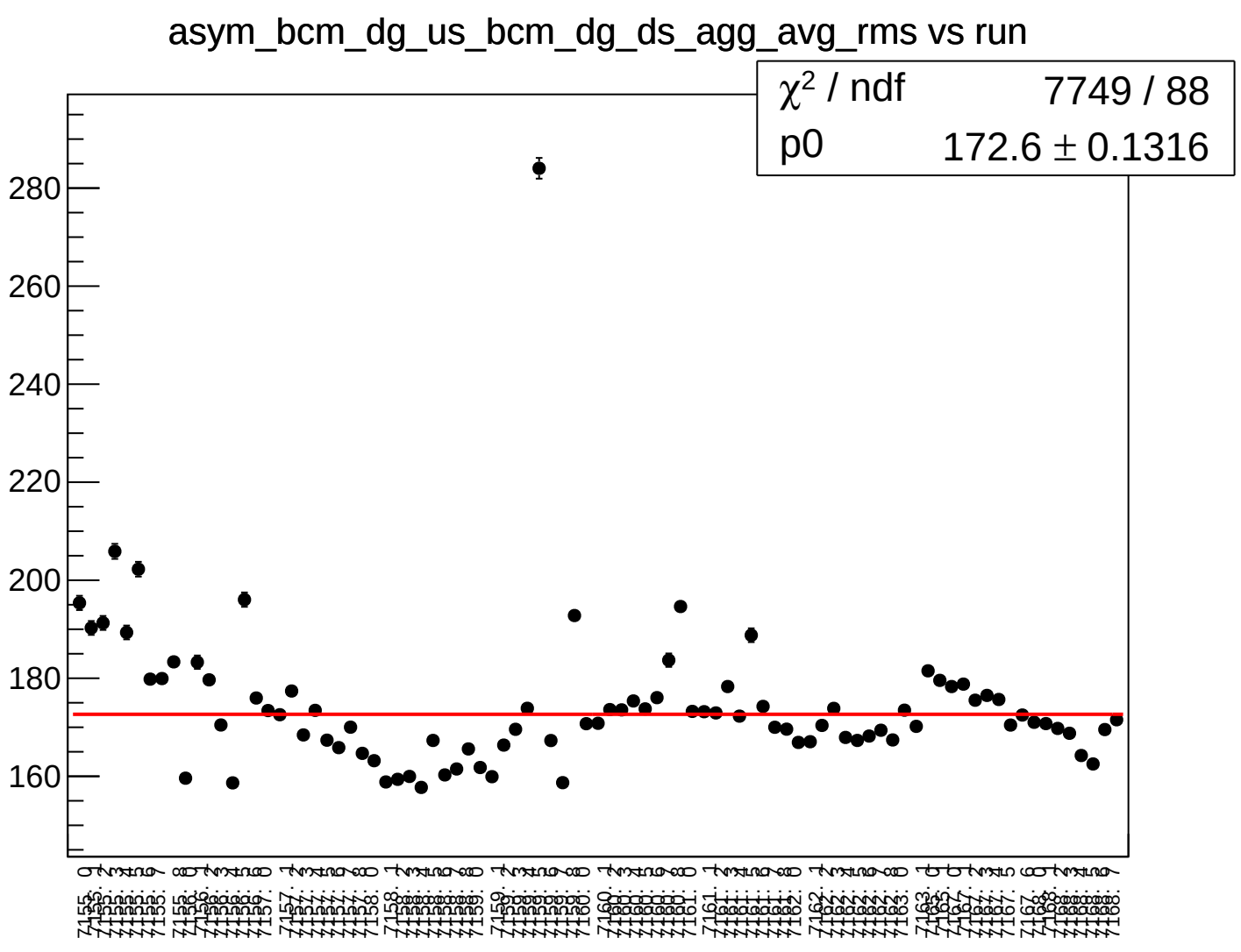

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8003 / 88
p0 170.3 ± 0.1297
280
260
240
220
200
180
160

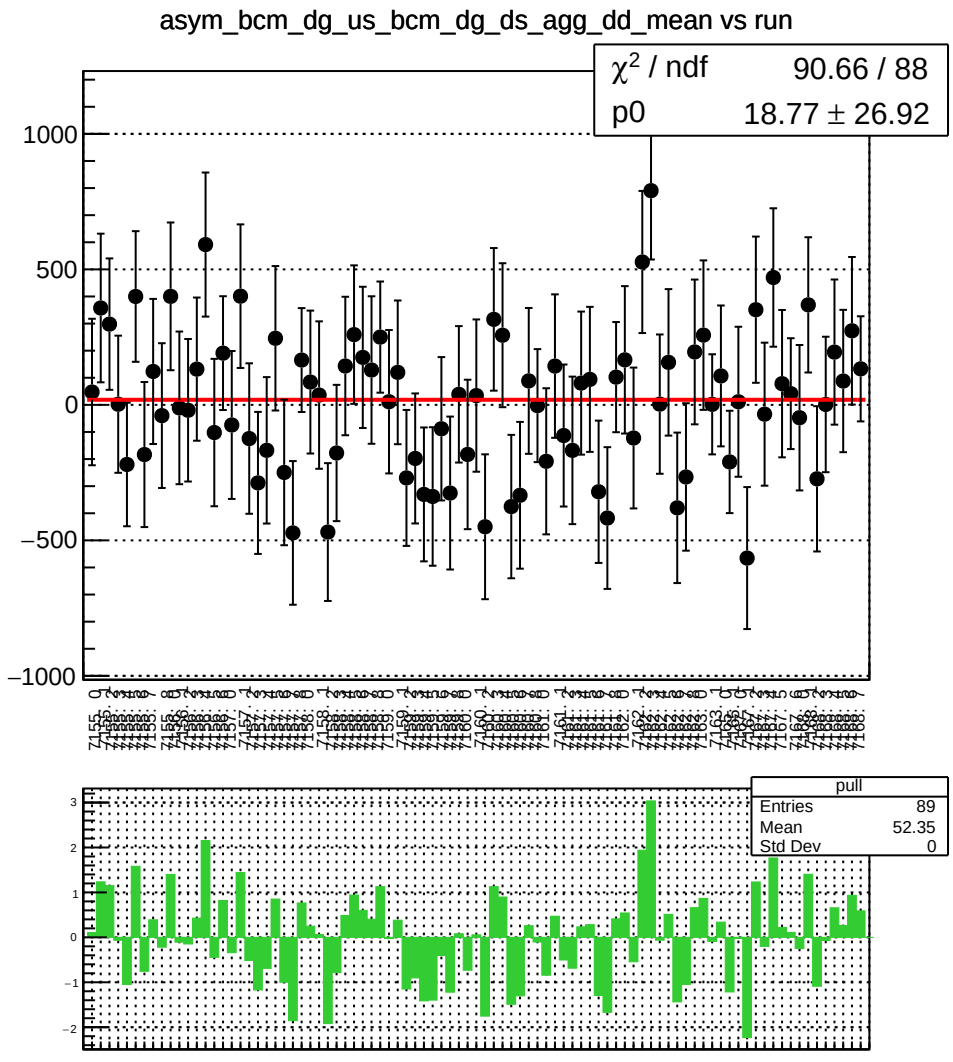

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 90.45 / 88
p0 −54.1 ± 18.2
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 465.4
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean 0.0104
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

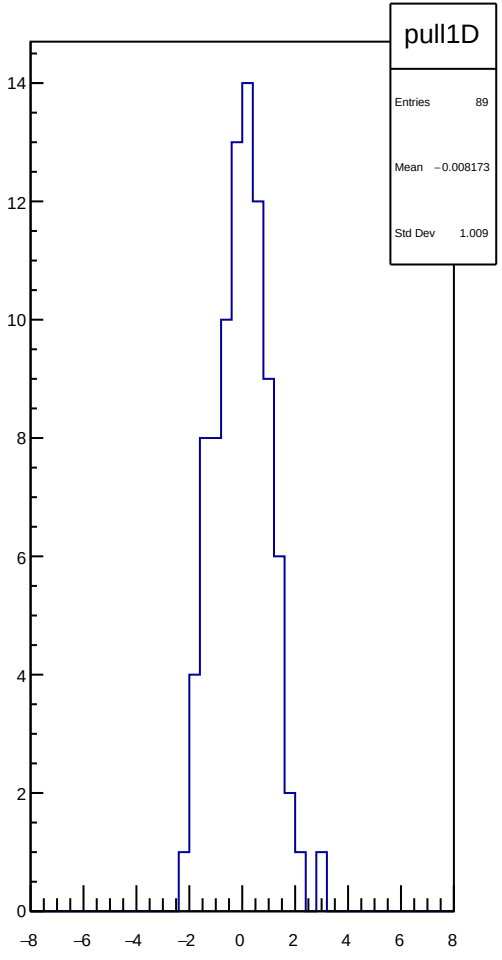

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2307 / 88
p0 16.92 ± 0.01287
18.5
18
17.5
17
16.5
16
15.5

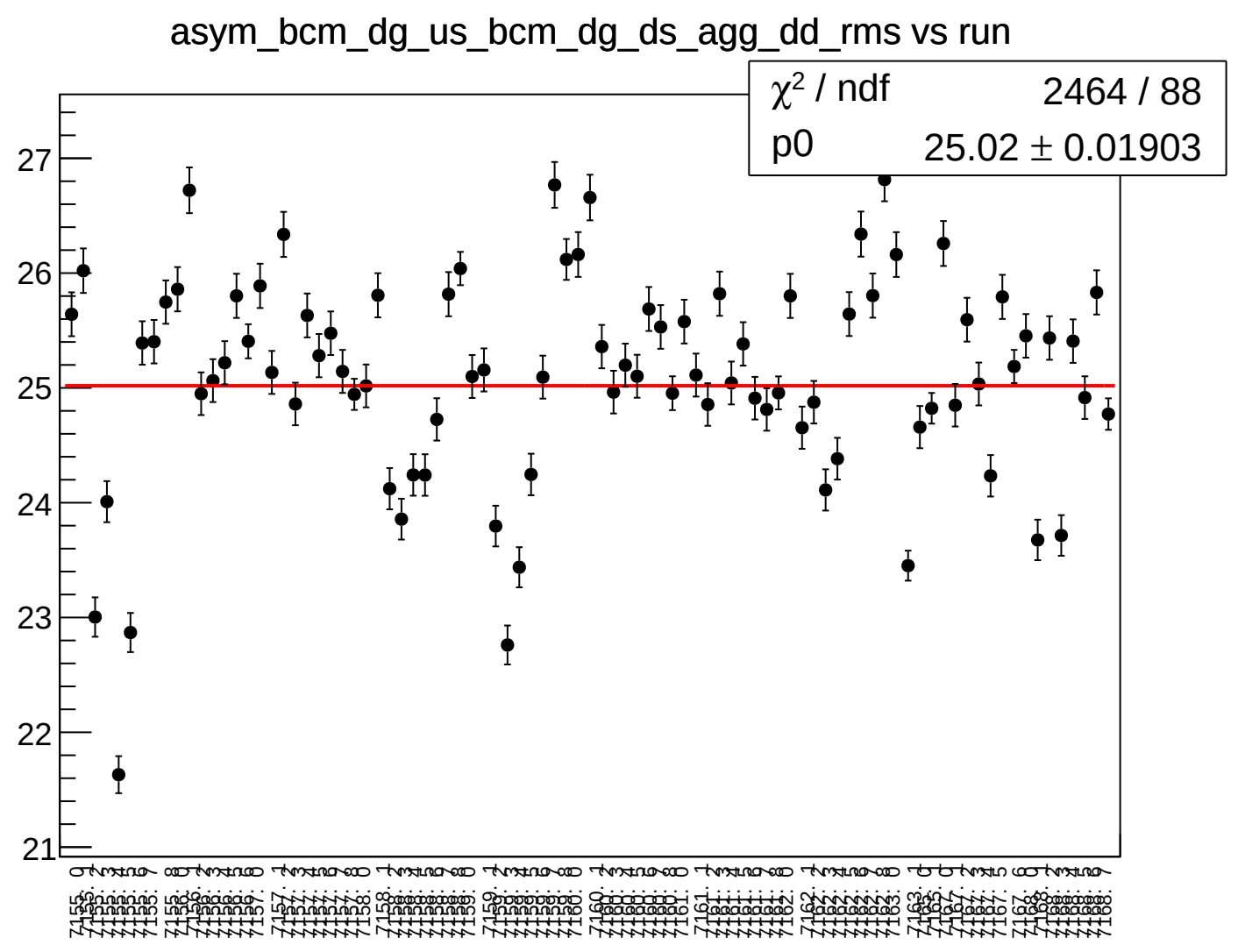

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.08 / 88
p0 −146.4 ± 186
pull
Entries 89
Mean 321.8
Std Dev 0

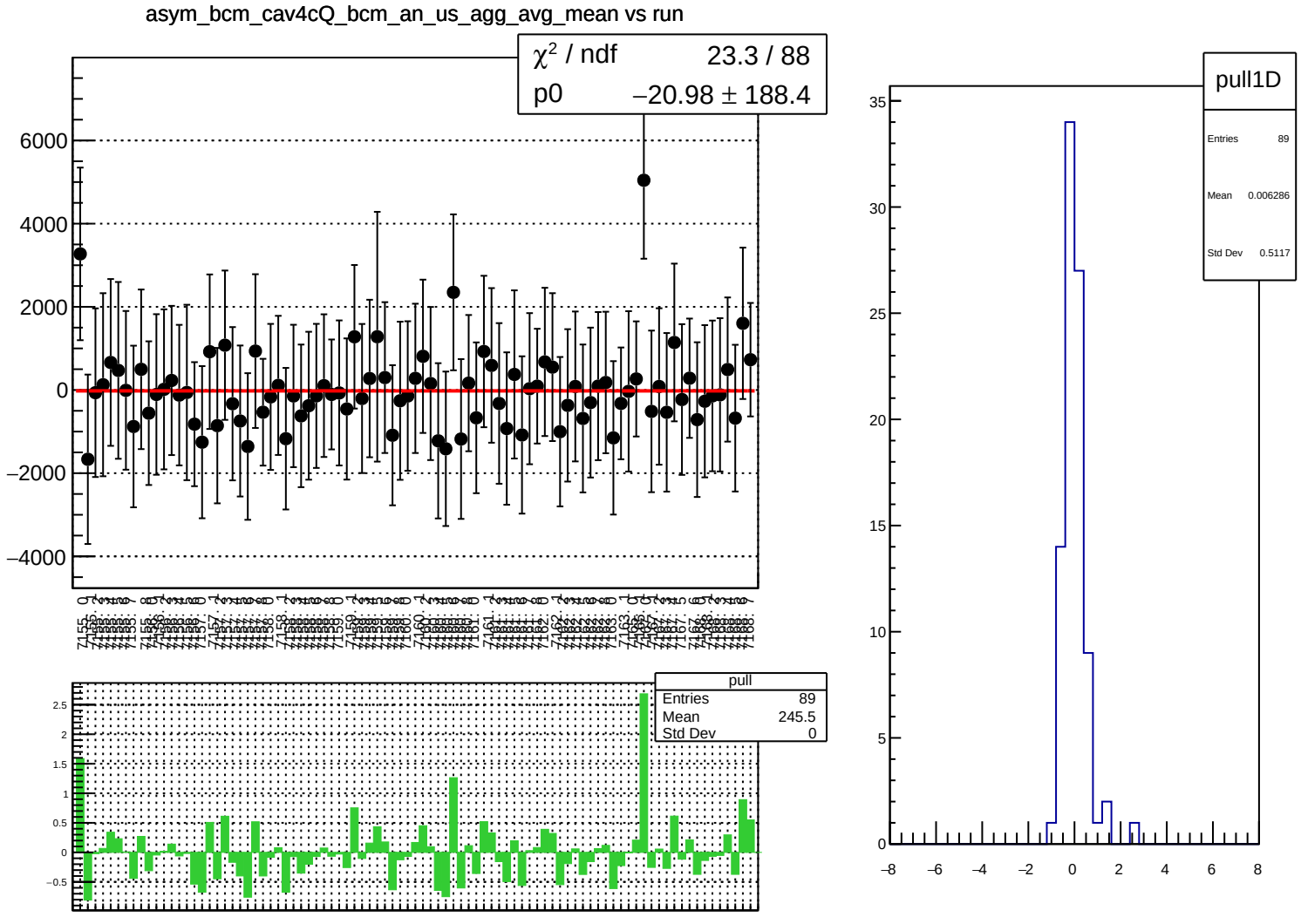

pull1D
Entries 89
Mean 0.007546
Std Dev 0.5201

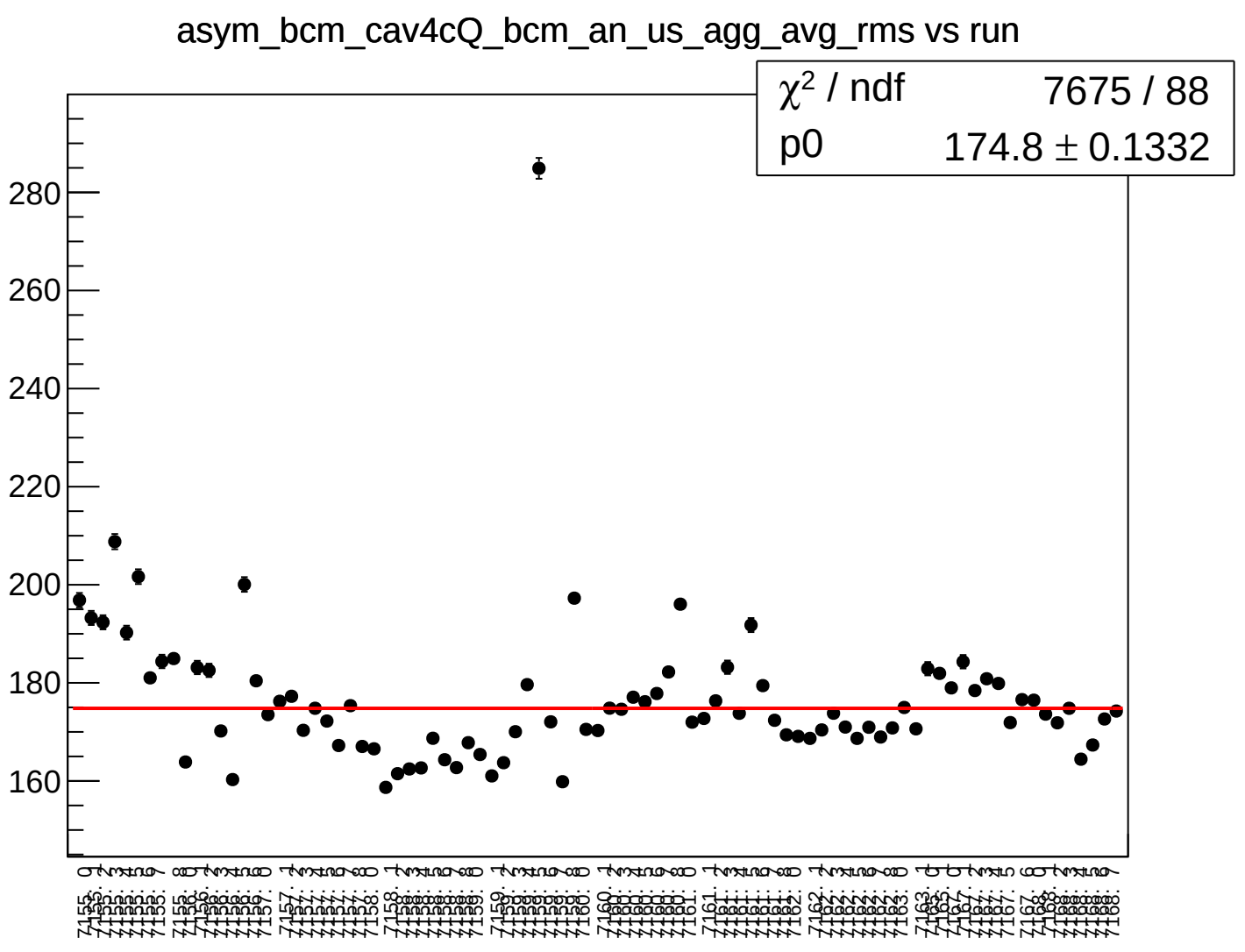

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7749 / 88
p0 172.6 ± 0.1316
280
260
240
220
200
180
160

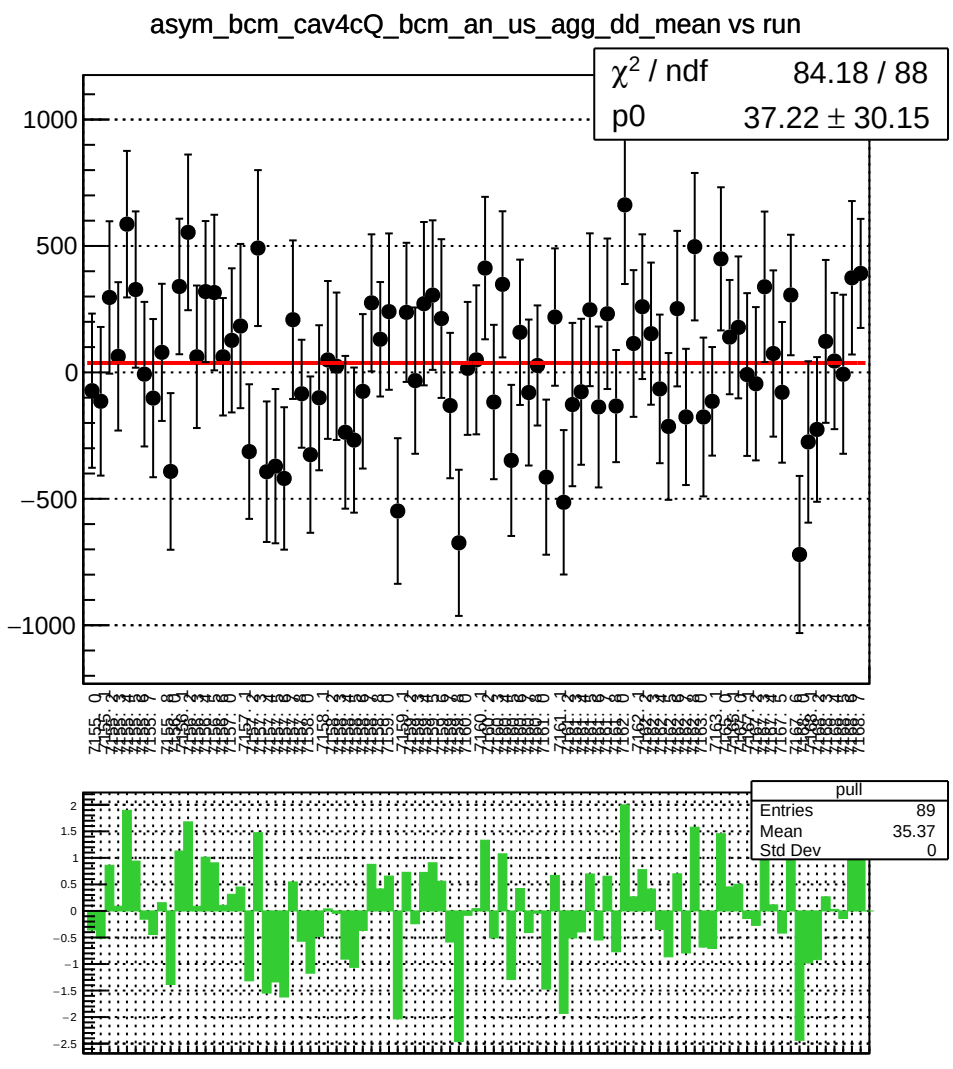

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 90.66 / 88
p0 18.77 ± 26.92
1000
500
0
−500
−1000
pull
Entries 89
Mean 52.35
Std Dev 0
3
2
1
0
−1
−2

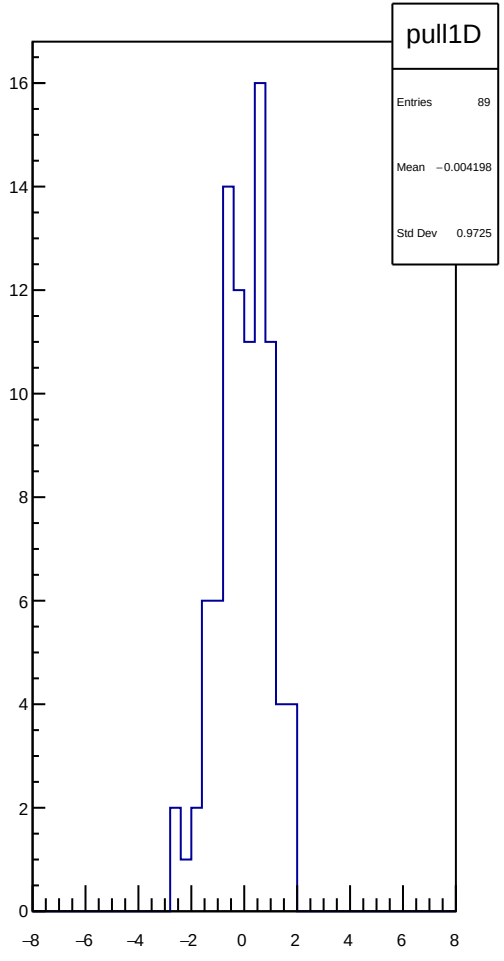

pull1D
Entries 89
Mean −0.008173
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

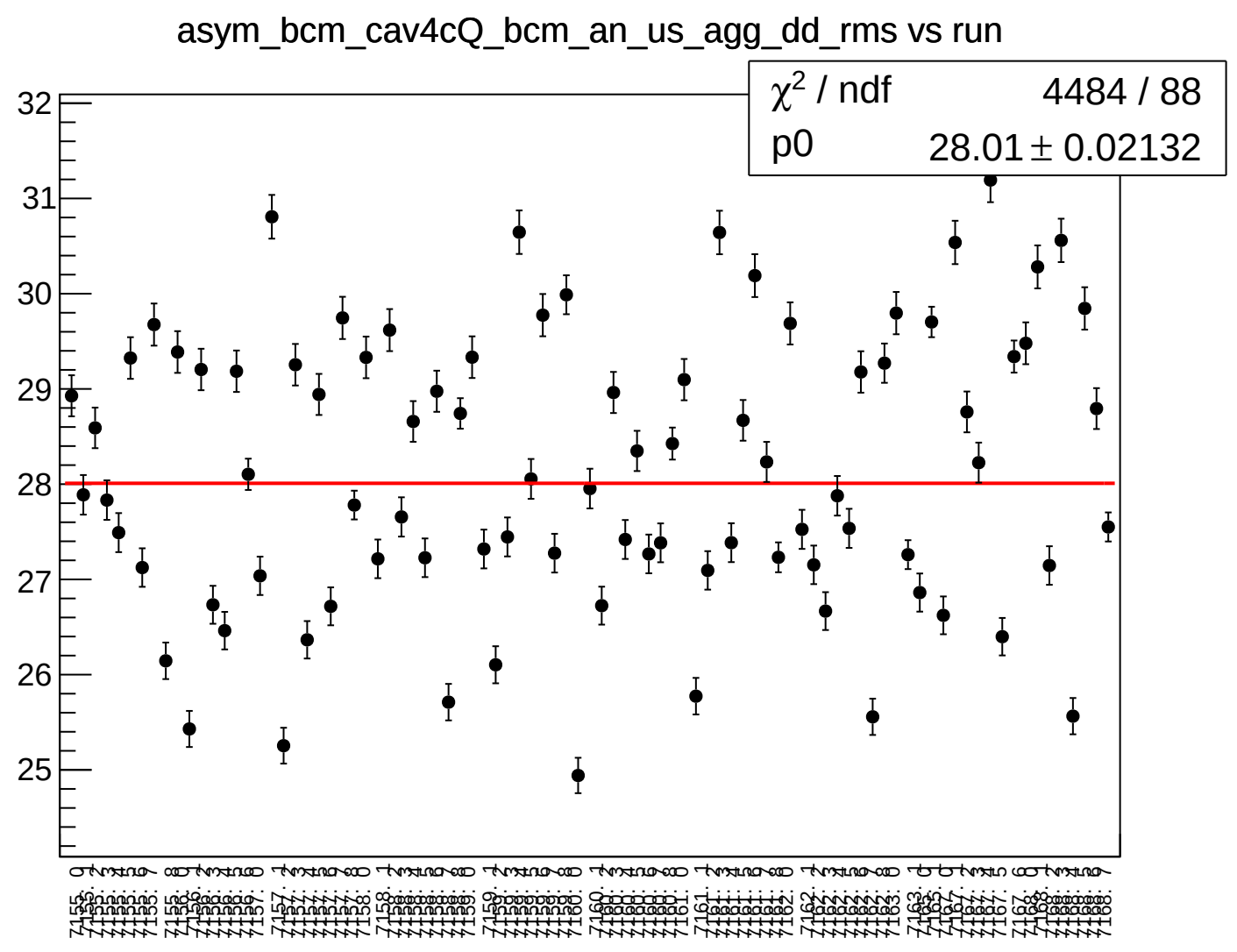

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2464 / 88
p0 25.02 ± 0.01903
27
26
25
24
23
22
21

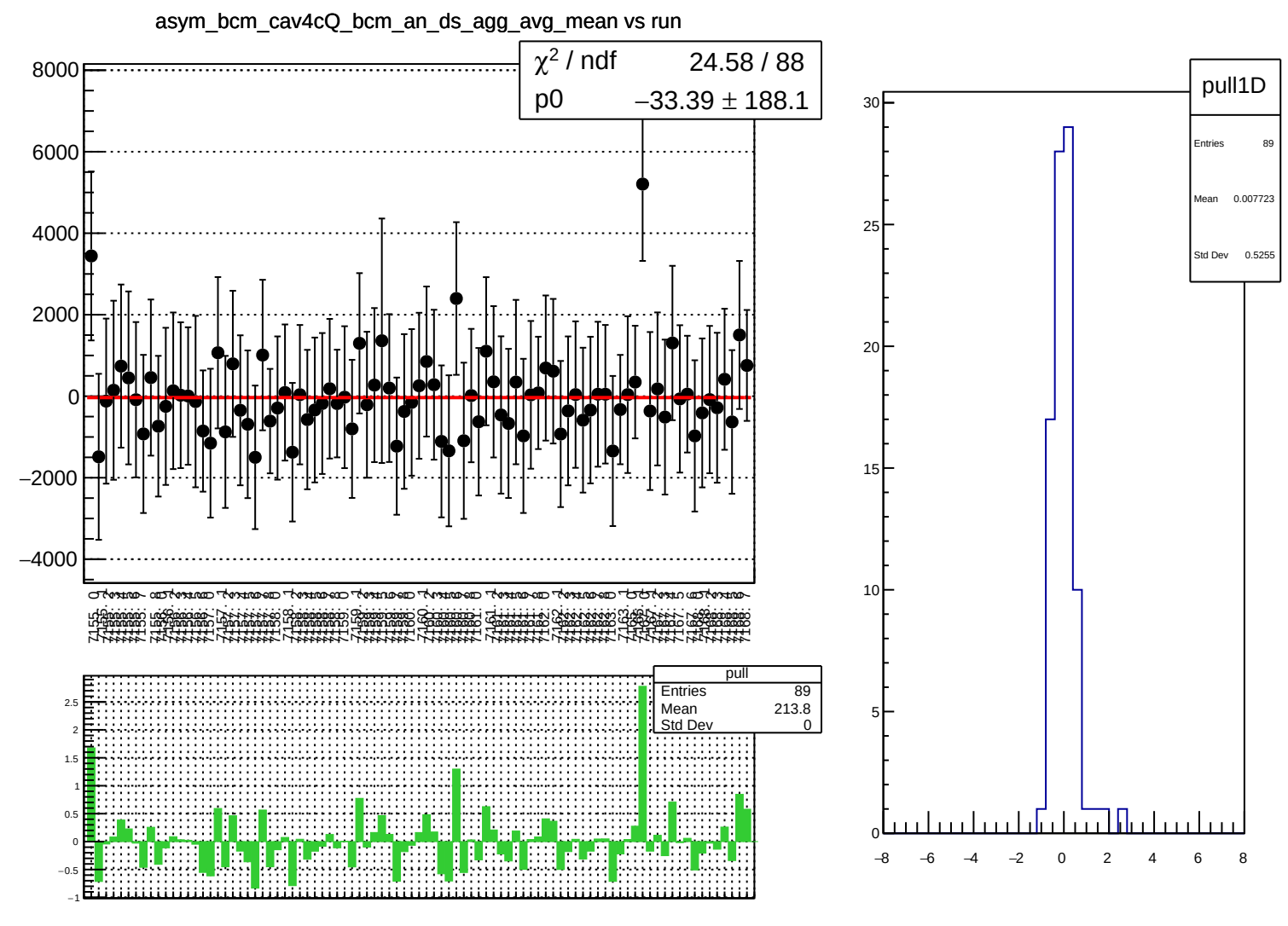

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.3 / 88
p0 −20.98 ± 188.4
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 245.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean 0.006286
Std Dev 0.5117
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

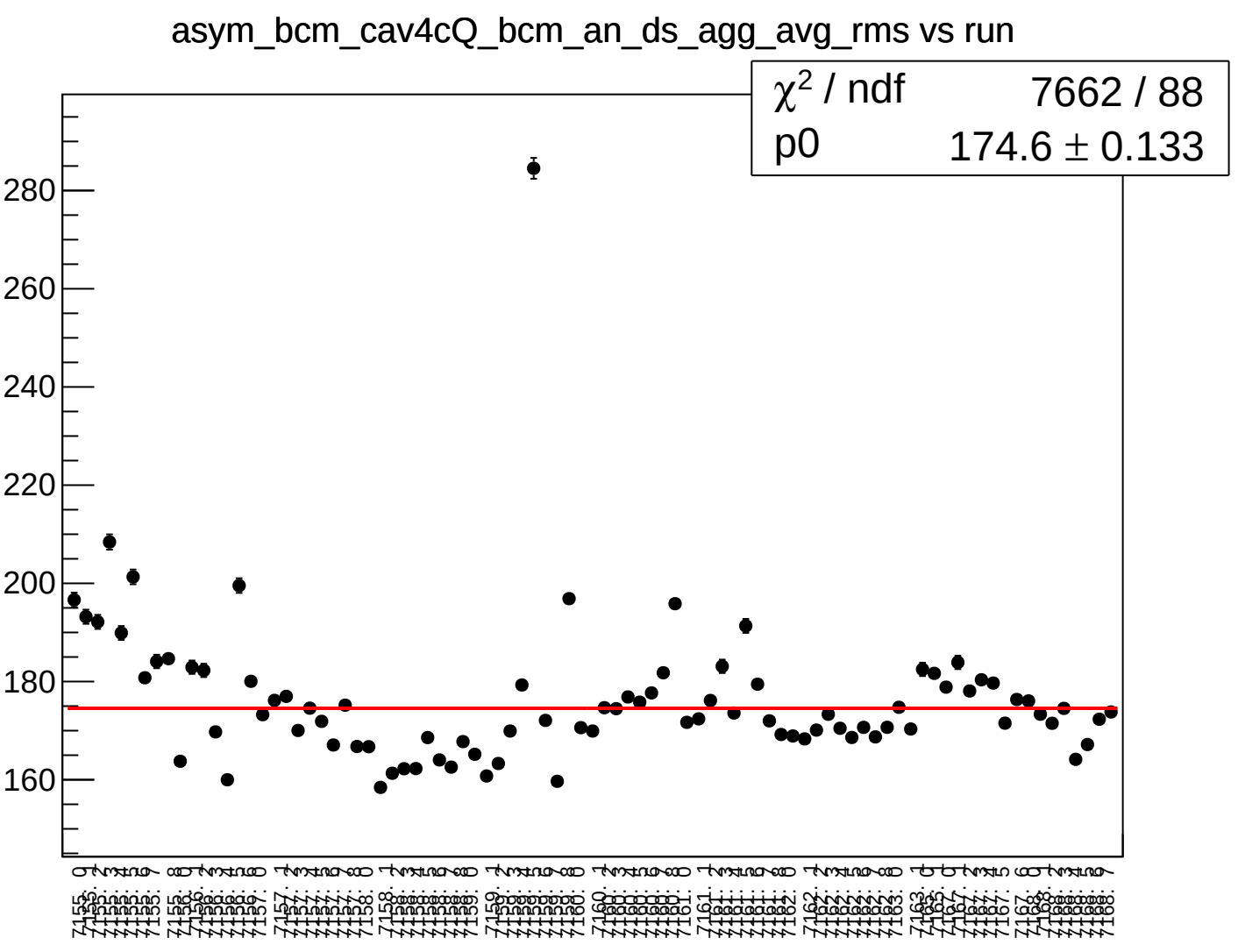

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 7675 / 88
p0 174.8 ± 0.1332
280
260
240
220
200
180
160

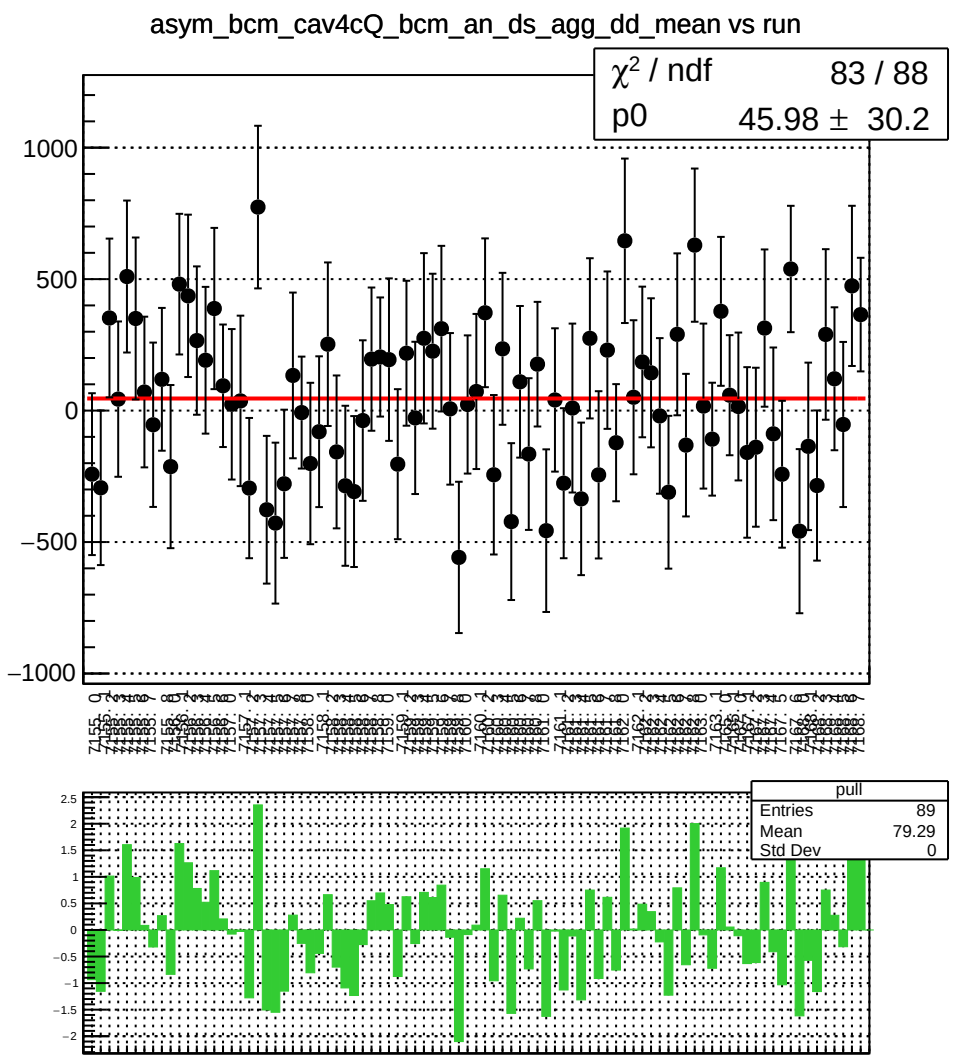

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 84.18 / 88
p0 37.22 ± 30.15
1000
500
0
−500
−1000
pull
Entries 89
Mean 35.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

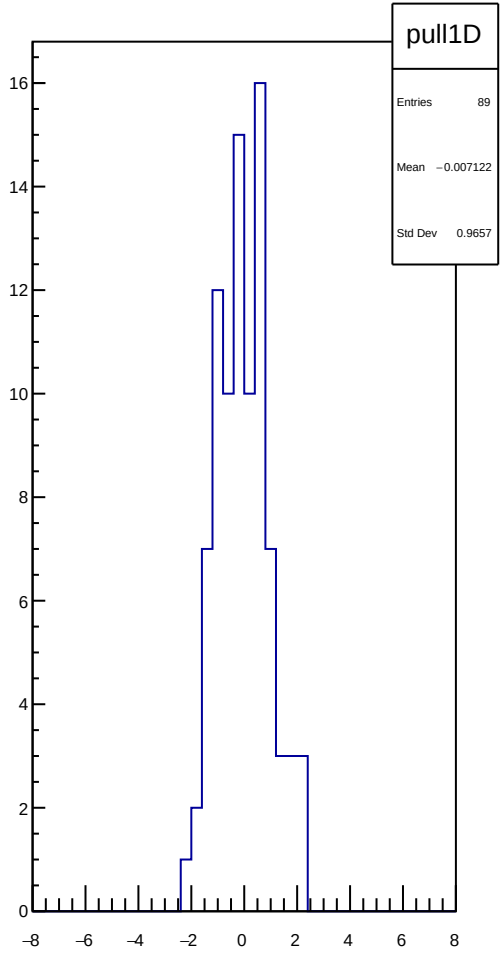

pull1D
Entries 89
Mean −0.004198
Std Dev 0.9725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

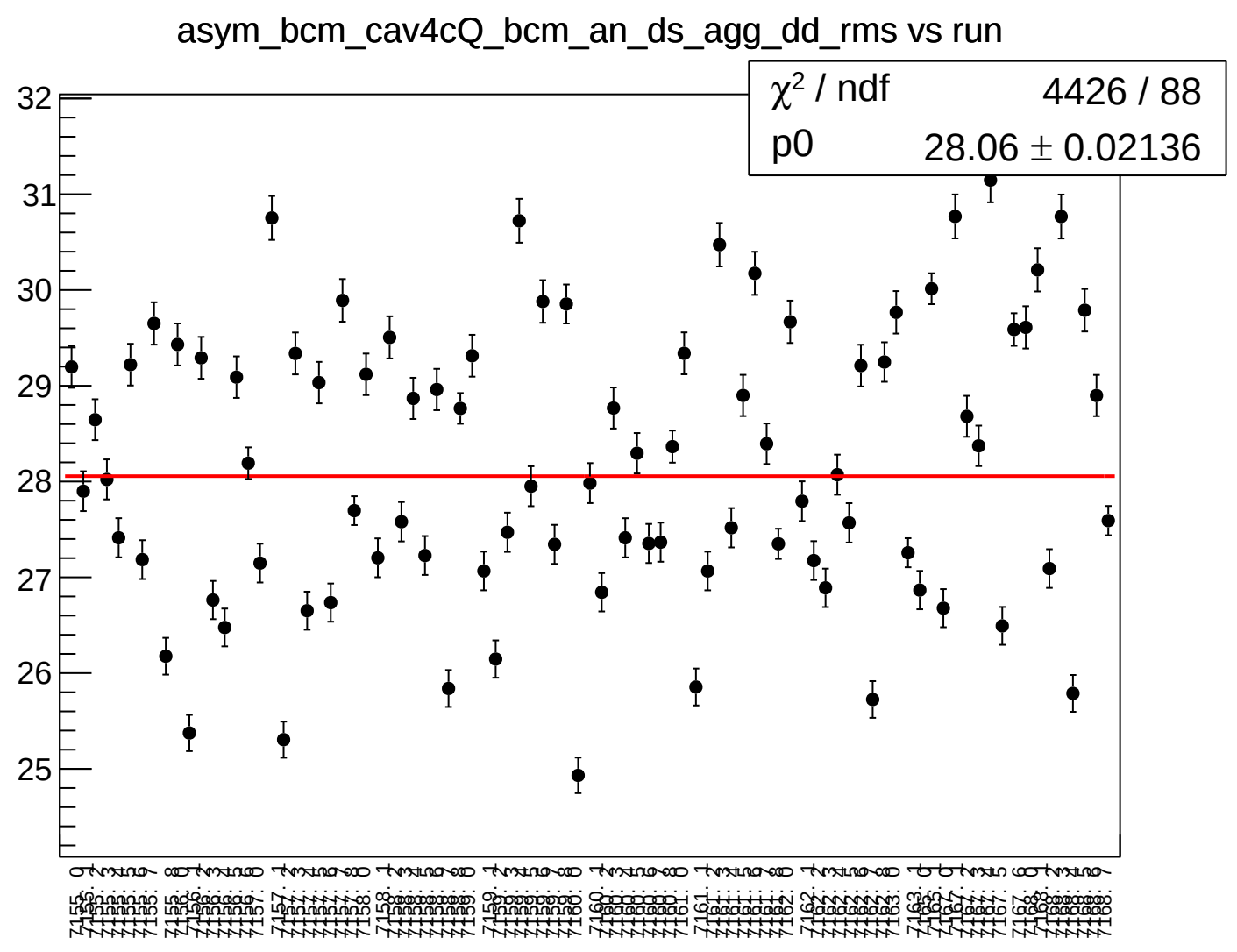

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4484 / 88
p0 28.01 ± 0.02132
32
31
30
29
28
27
26
25

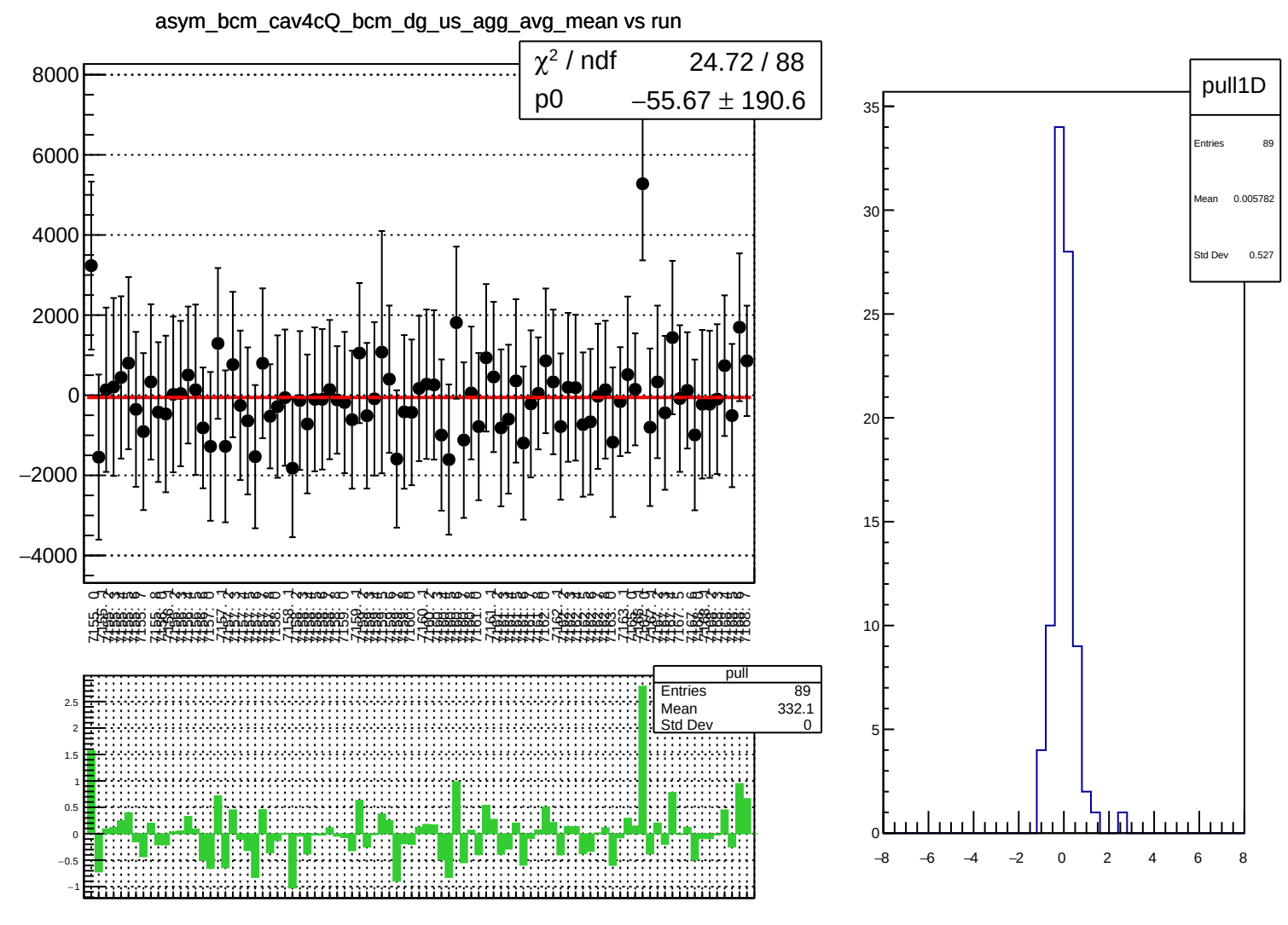

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.58 / 88
p0 −33.39 ± 188.1
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 213.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.007723
Std Dev 0.5255
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

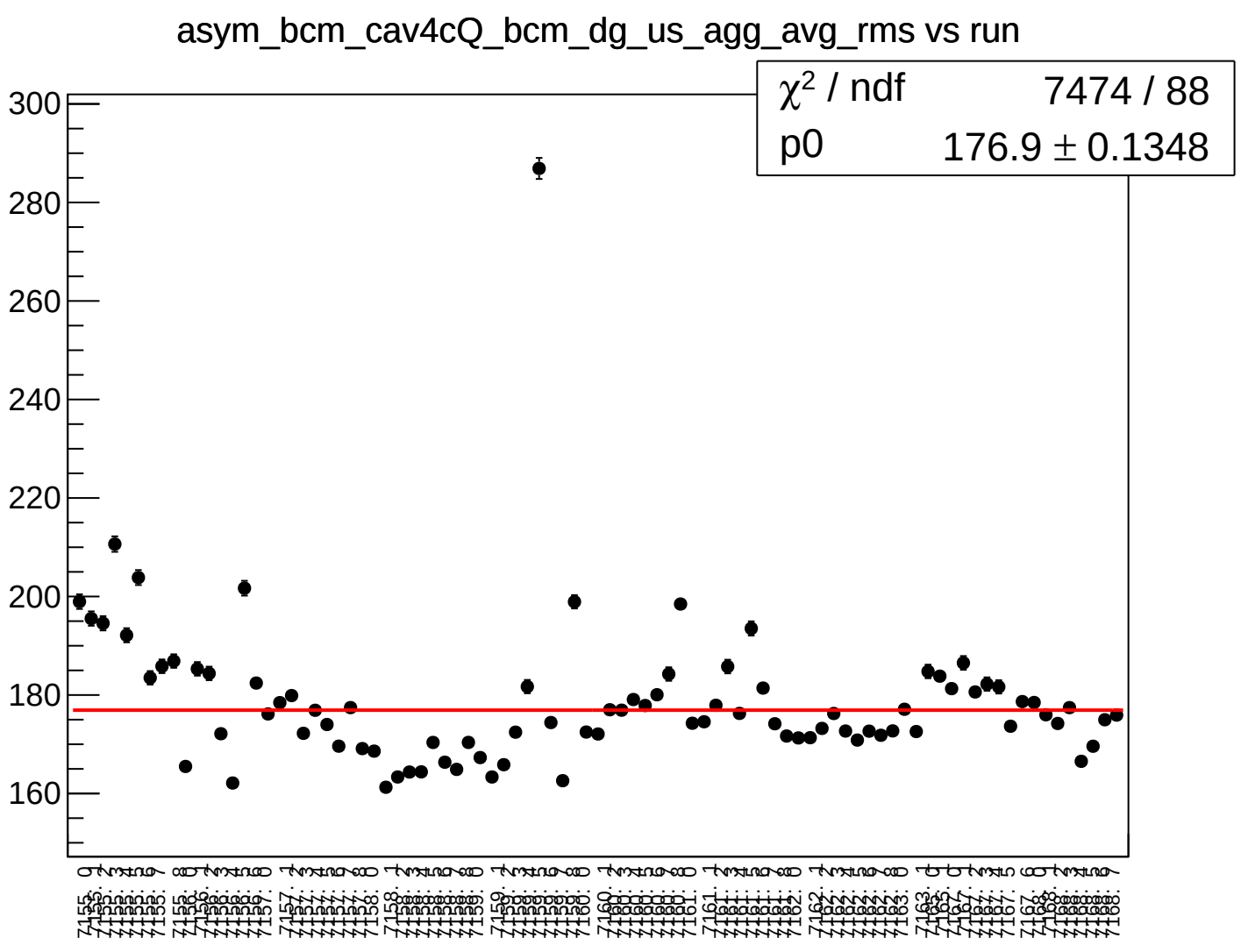

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 7662 / 88
p0 174.6 ± 0.133
280
260
240
220
200
180
160

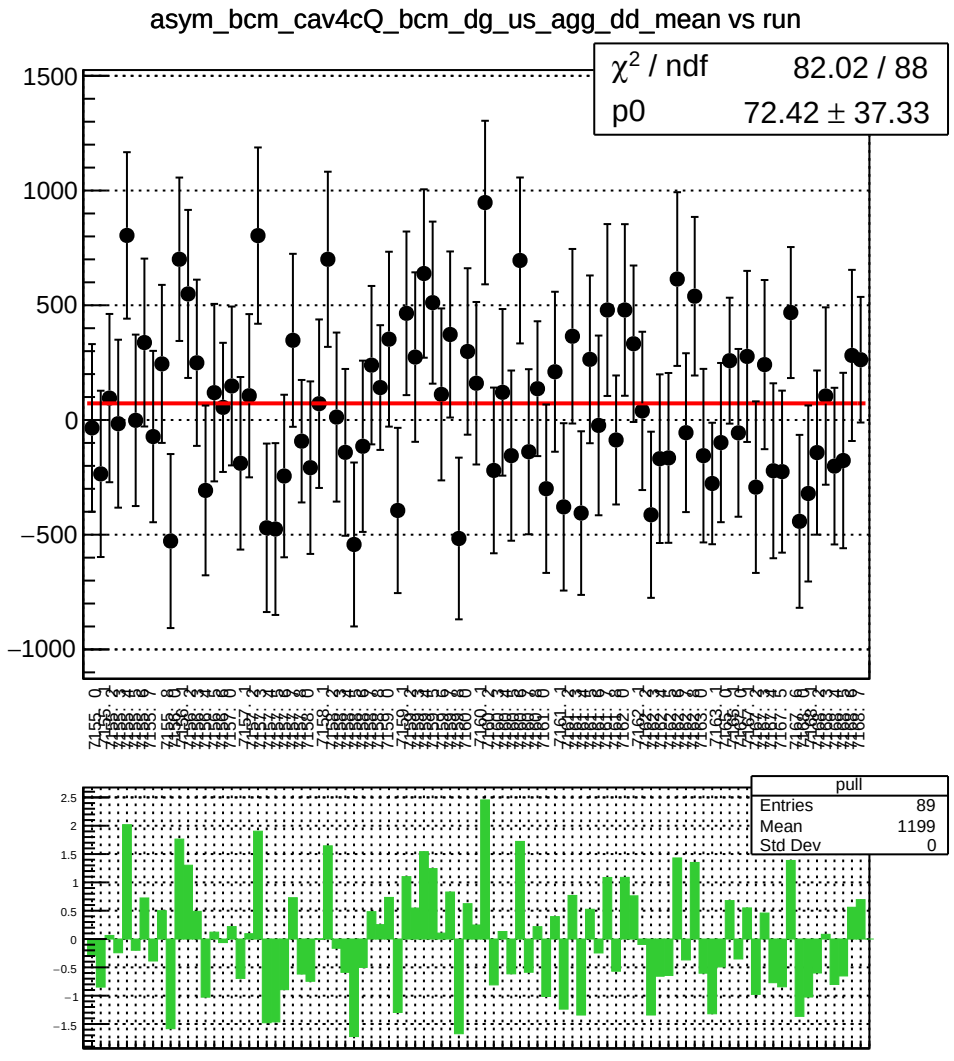

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 83 / 88
p0 45.98 ± 30.2
1000
500
0
−500
−1000
pull
Entries 89
Mean 79.29
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

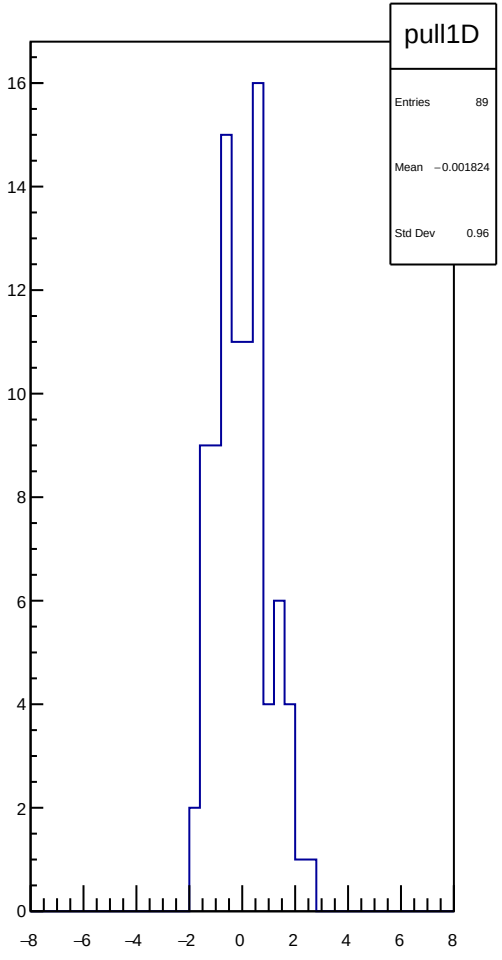

pull1D
Entries 89
Mean −0.007122
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

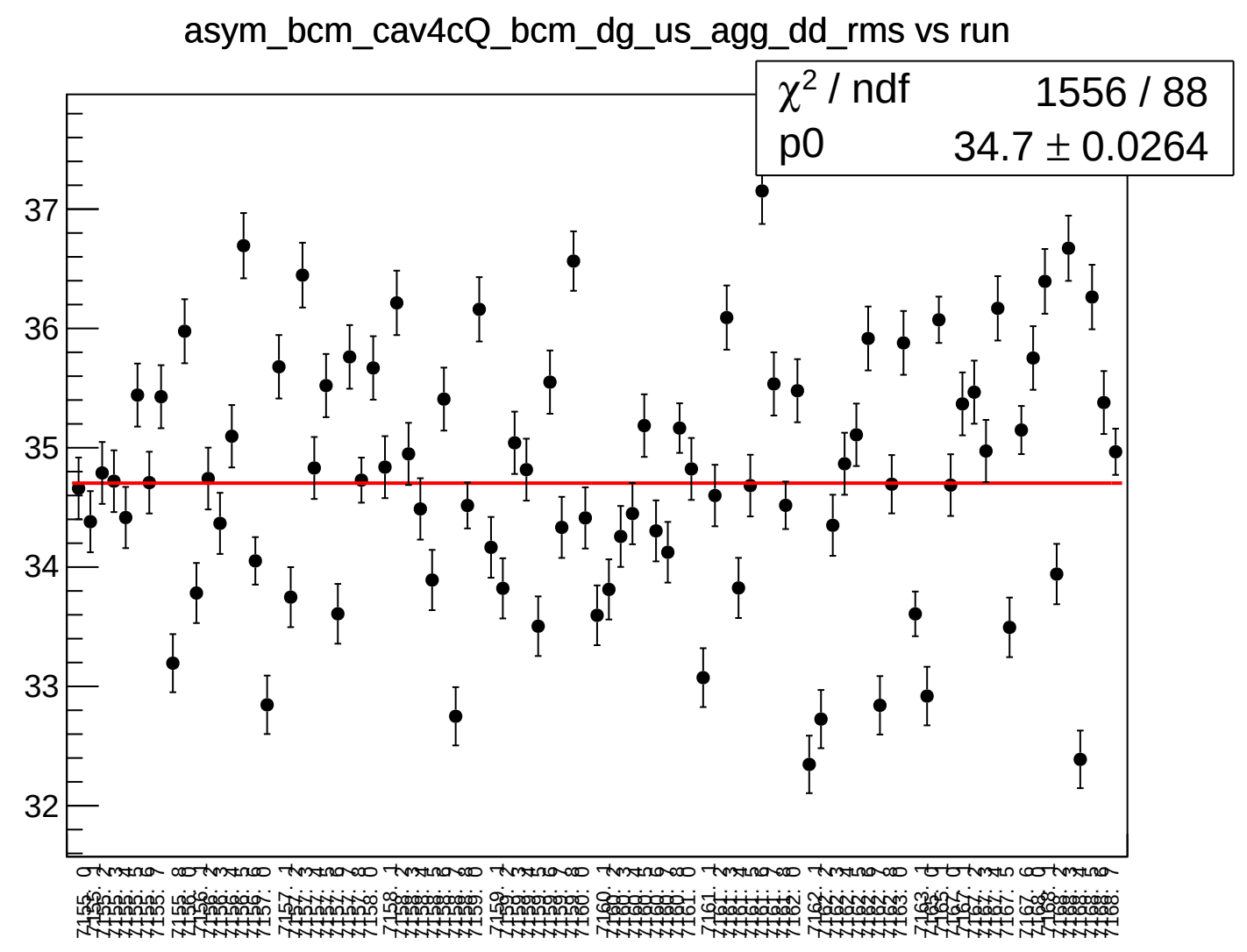

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4426 / 88
p0 28.06 ± 0.02136
32
31
30
29
28
27
26
25

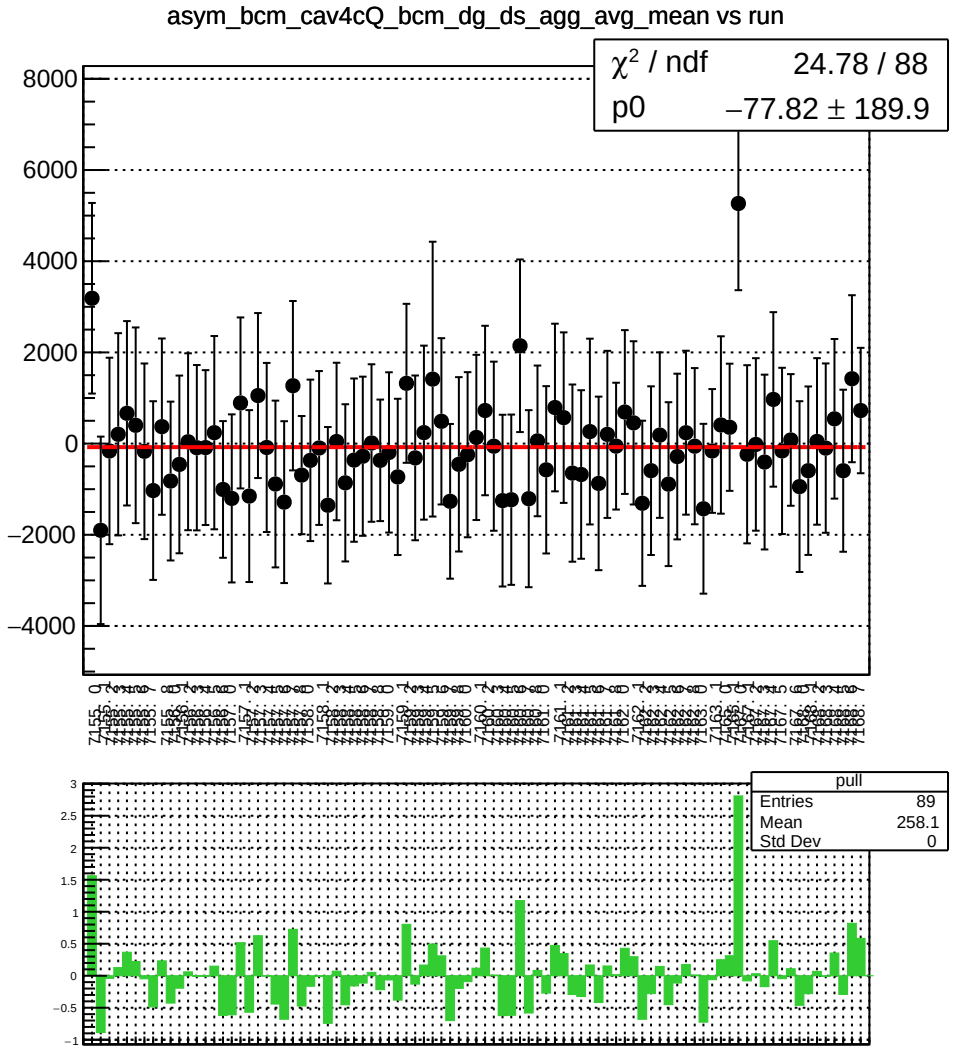

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 24.72 / 88
p0 −55.67 ± 190.6
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 332.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.005782
Std Dev 0.527
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

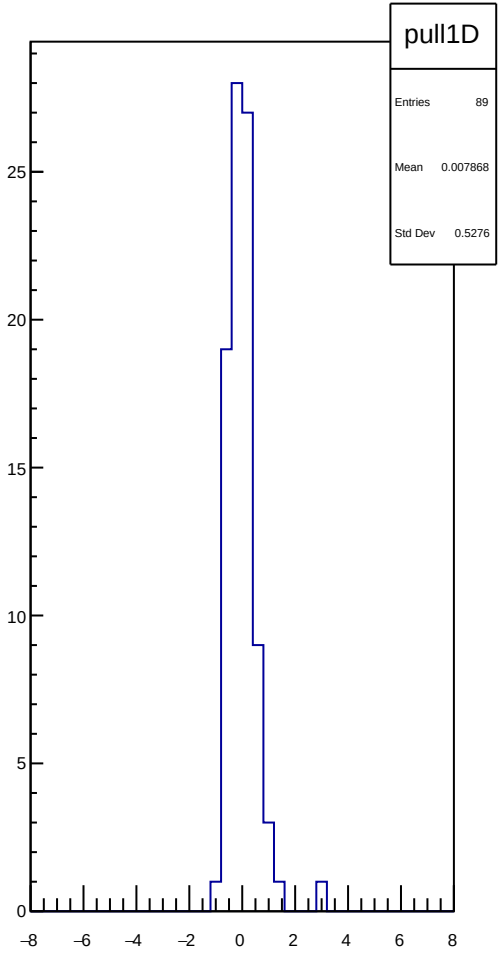

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 7474 / 88
p0 176.9 ± 0.1348
300
280
260
240
220
200
180
160

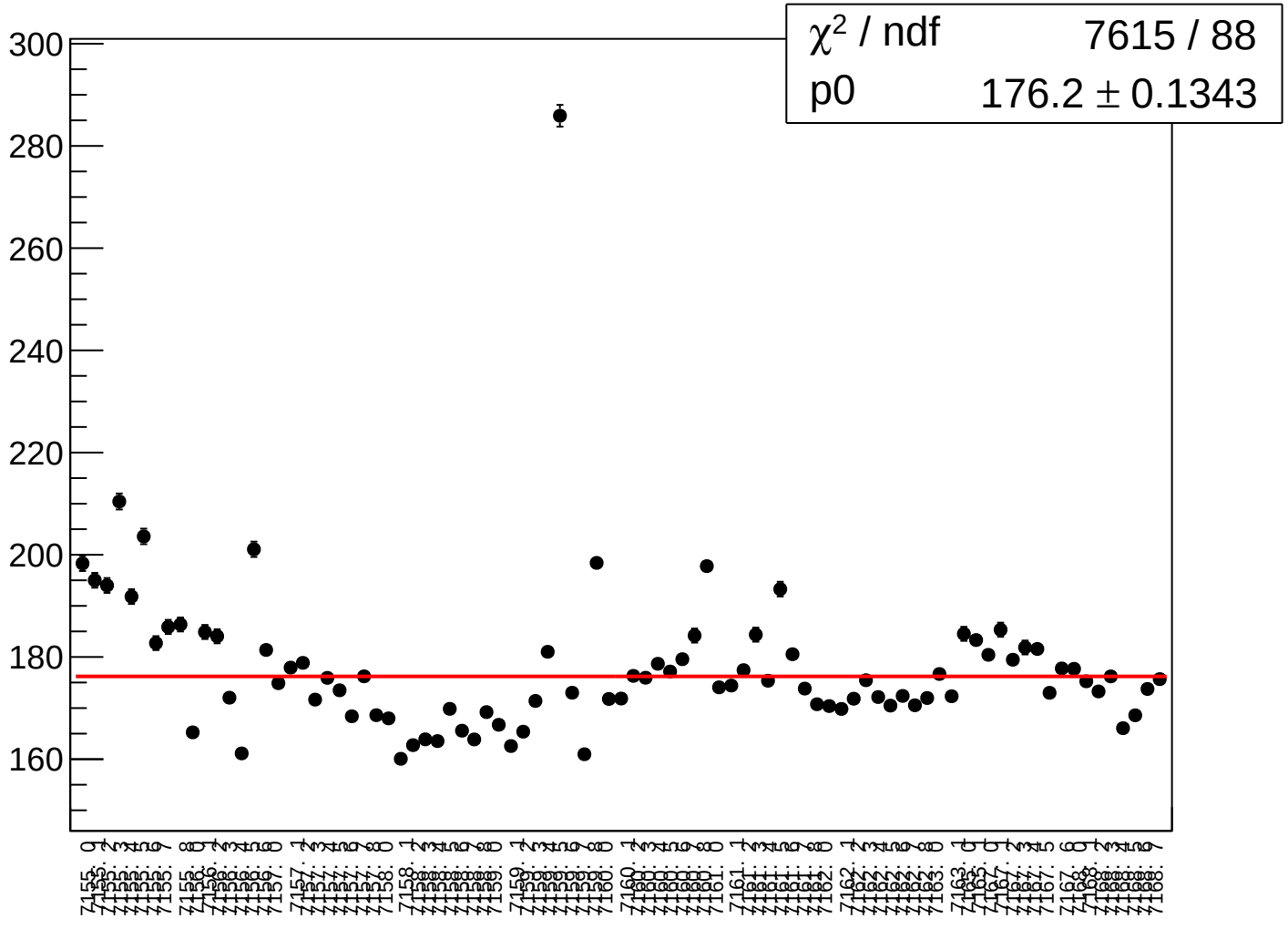

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.02 / 88
p0 72.42 ± 37.33
pull
Entries 89
Mean 1199
Std Dev 0

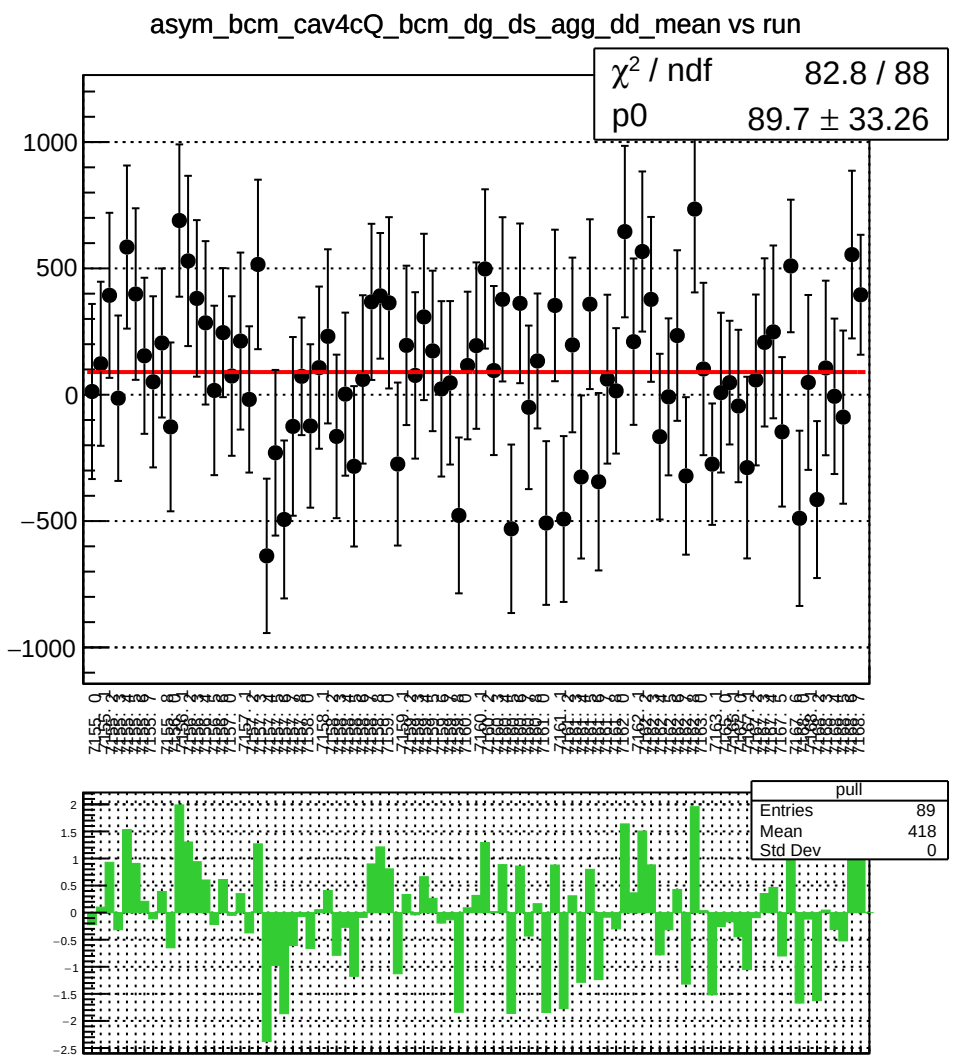

pull1D
Entries 89
Mean −0.001824
Std Dev 0.96

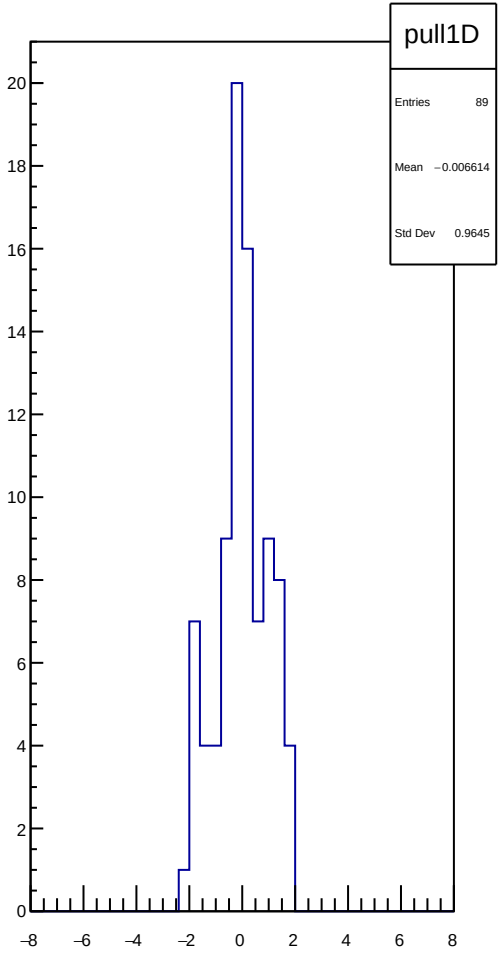

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1556 / 88
p0 34.7 ± 0.0264
37
36
35
34
33
32

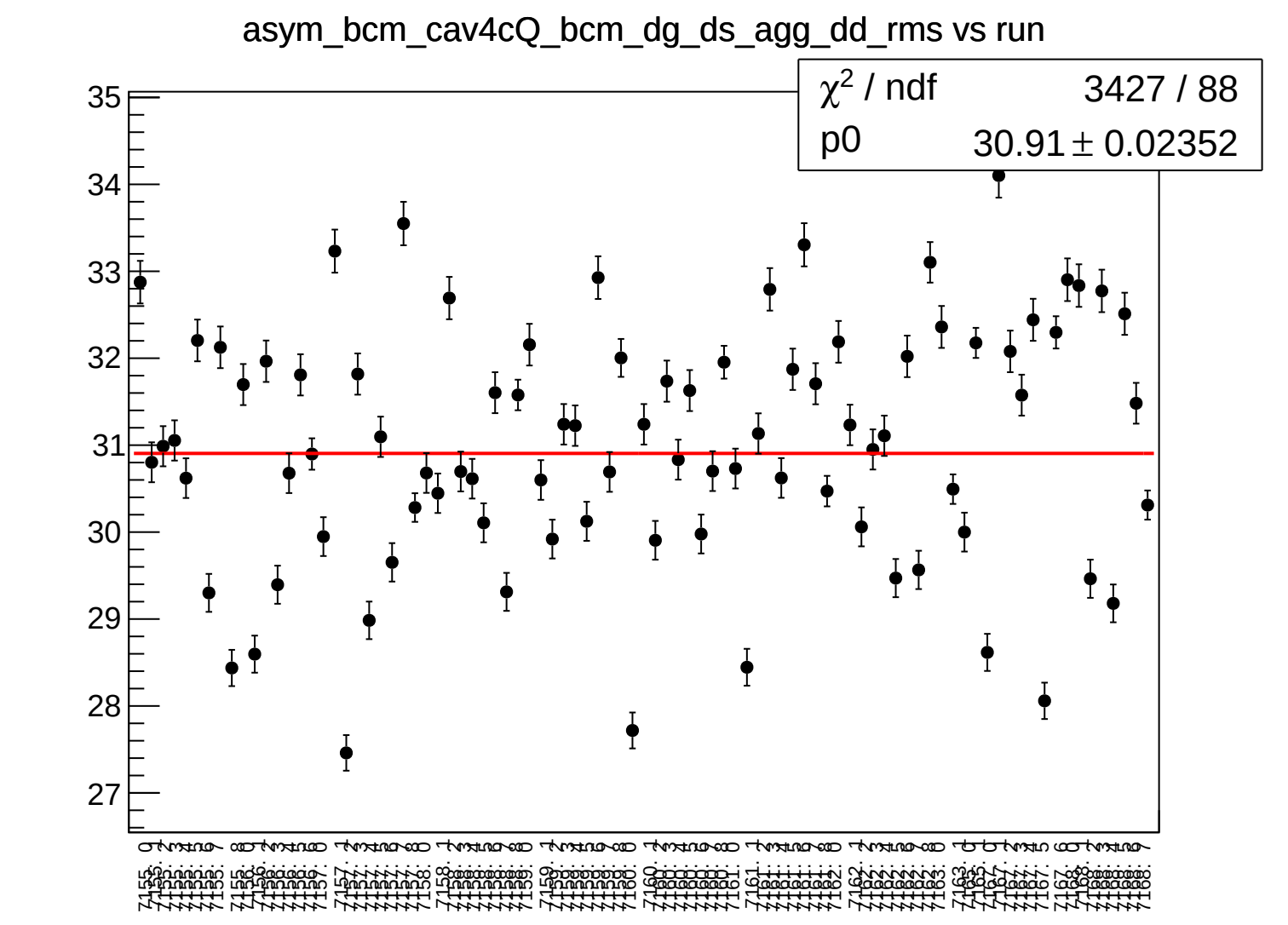

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 24.78 / 88
p0 −77.82 ± 189.9
pull
Entries 89
Mean 258.1
Std Dev 0

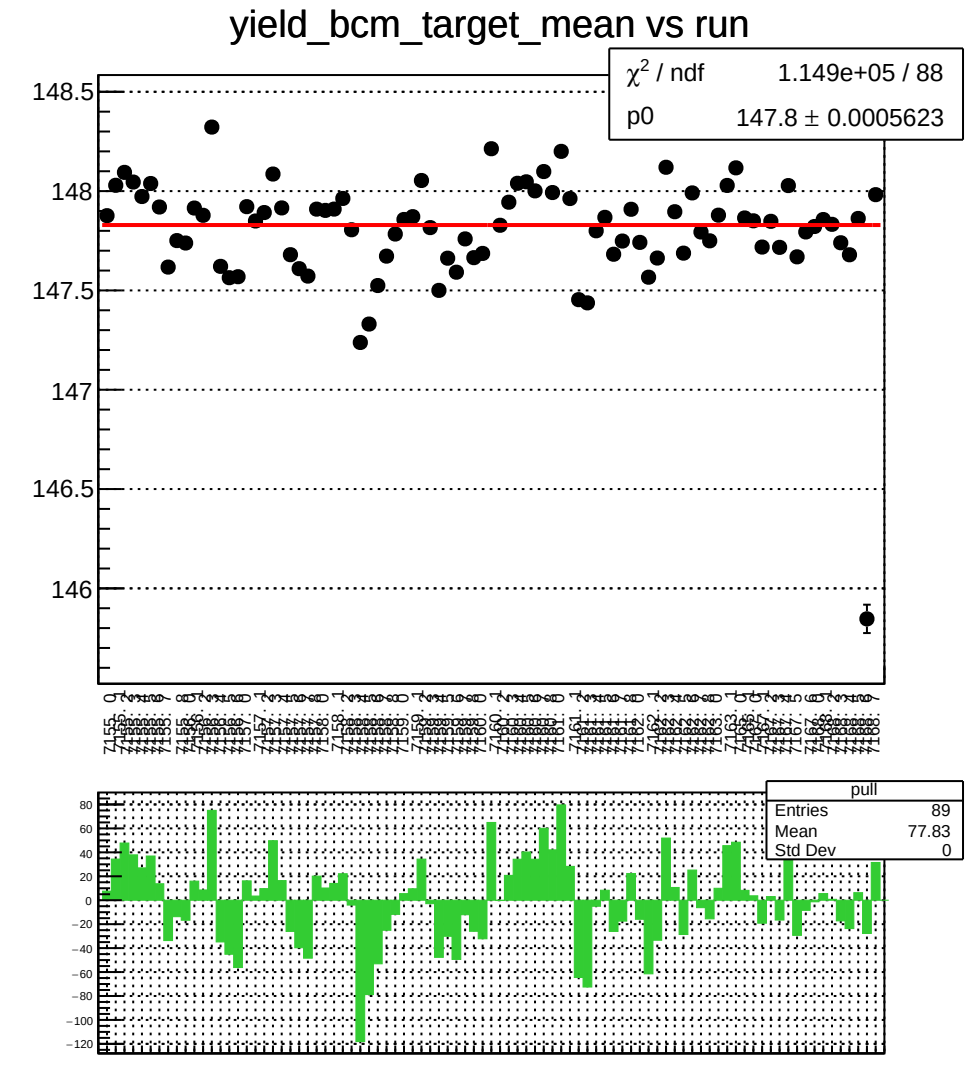

pull1D
Entries 89
Mean 0.007868
Std Dev 0.5276

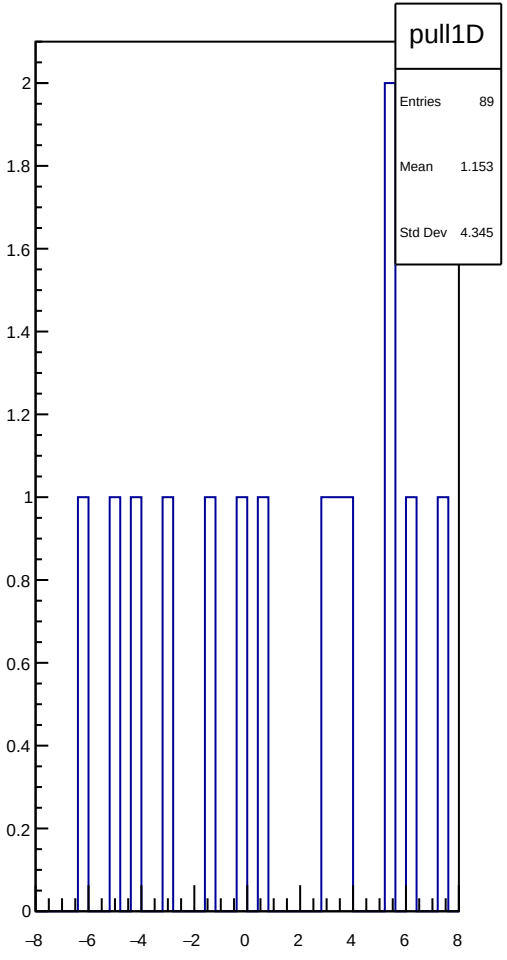

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 7615 / 88
p0 176.2 ± 0.1343
300
280
260
240
220
200
180
160


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 82.8 / 88
p0 89.7 ± 33.26
pull
Entries 89
Mean 418
Std Dev 0

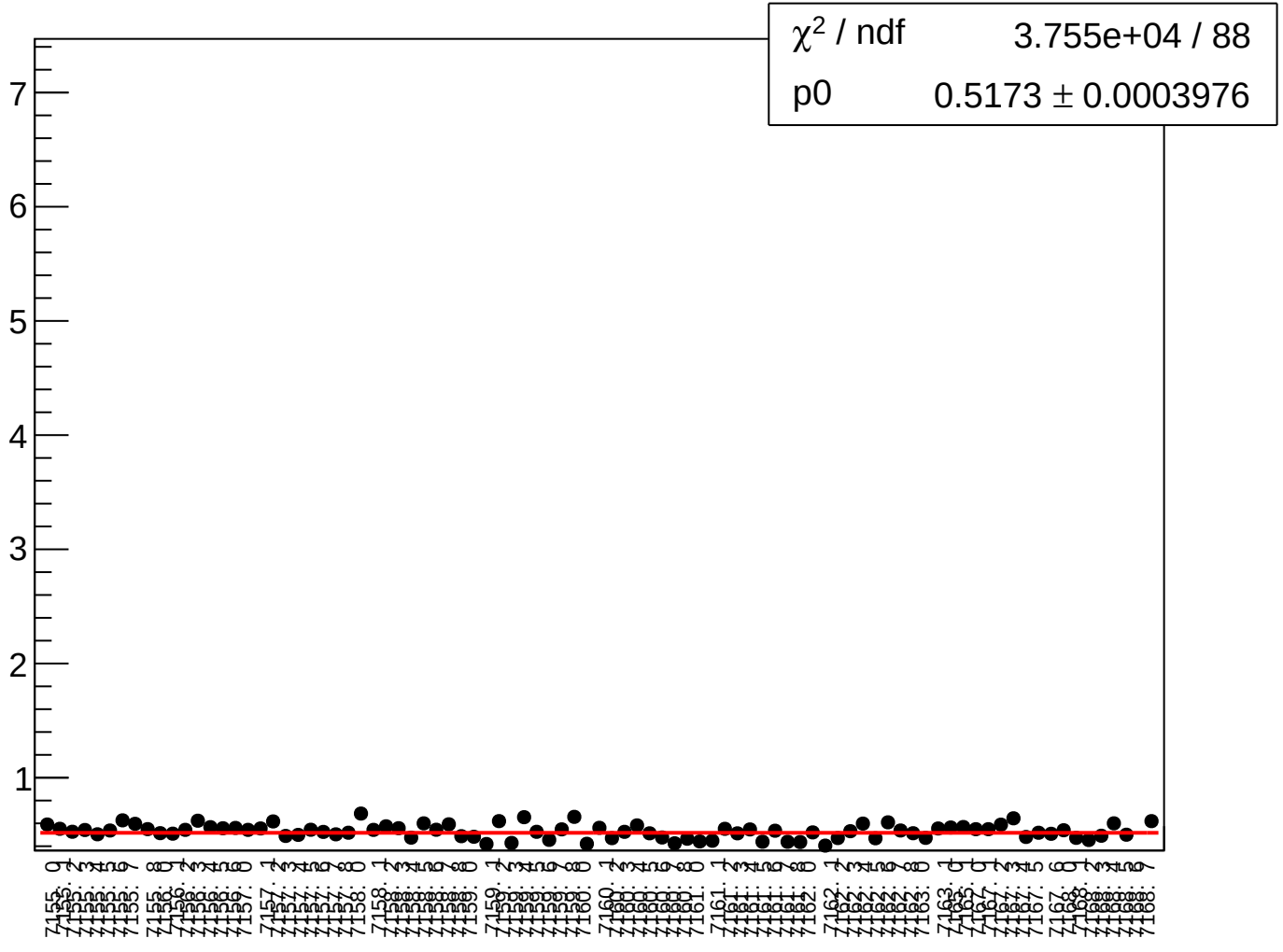

pull1D
Entries 89
Mean −0.006614
Std Dev 0.9645

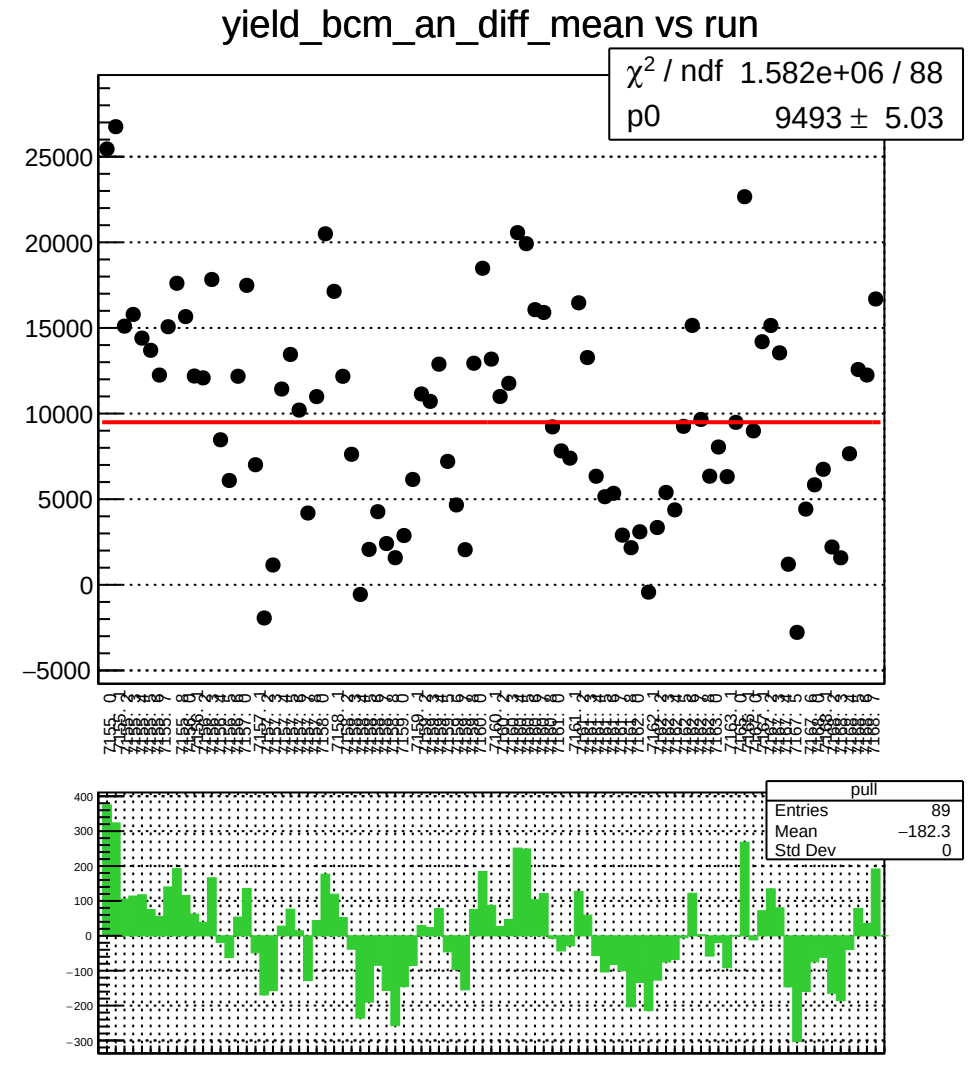

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3427 / 88
p0 30.91 ± 0.02352
35
34
33
32
31
30
29
28
27

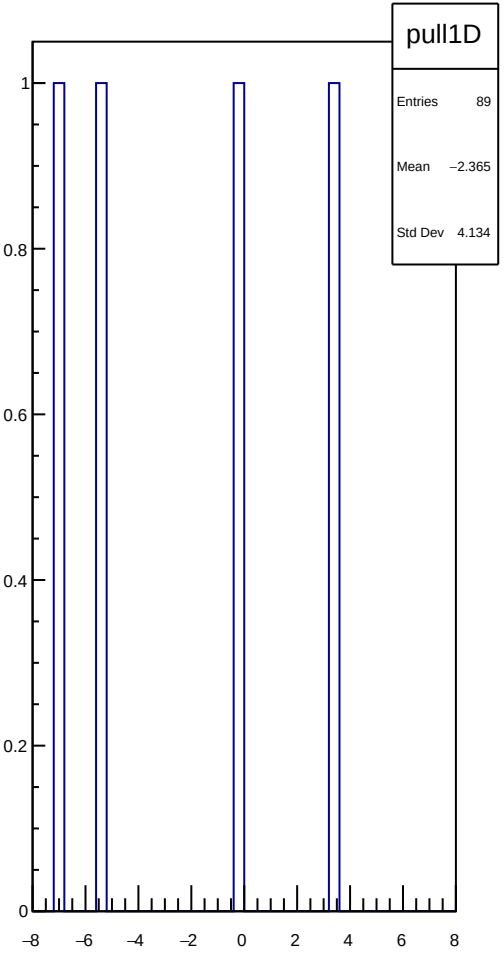

yield_bcm_target_mean vs run
χ² / ndf 1.149e+05 / 88
p0 147.8 ± 0.0005623
148.5
148
147.5
147
146.5
146
pull
Entries 89
Mean 77.83
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

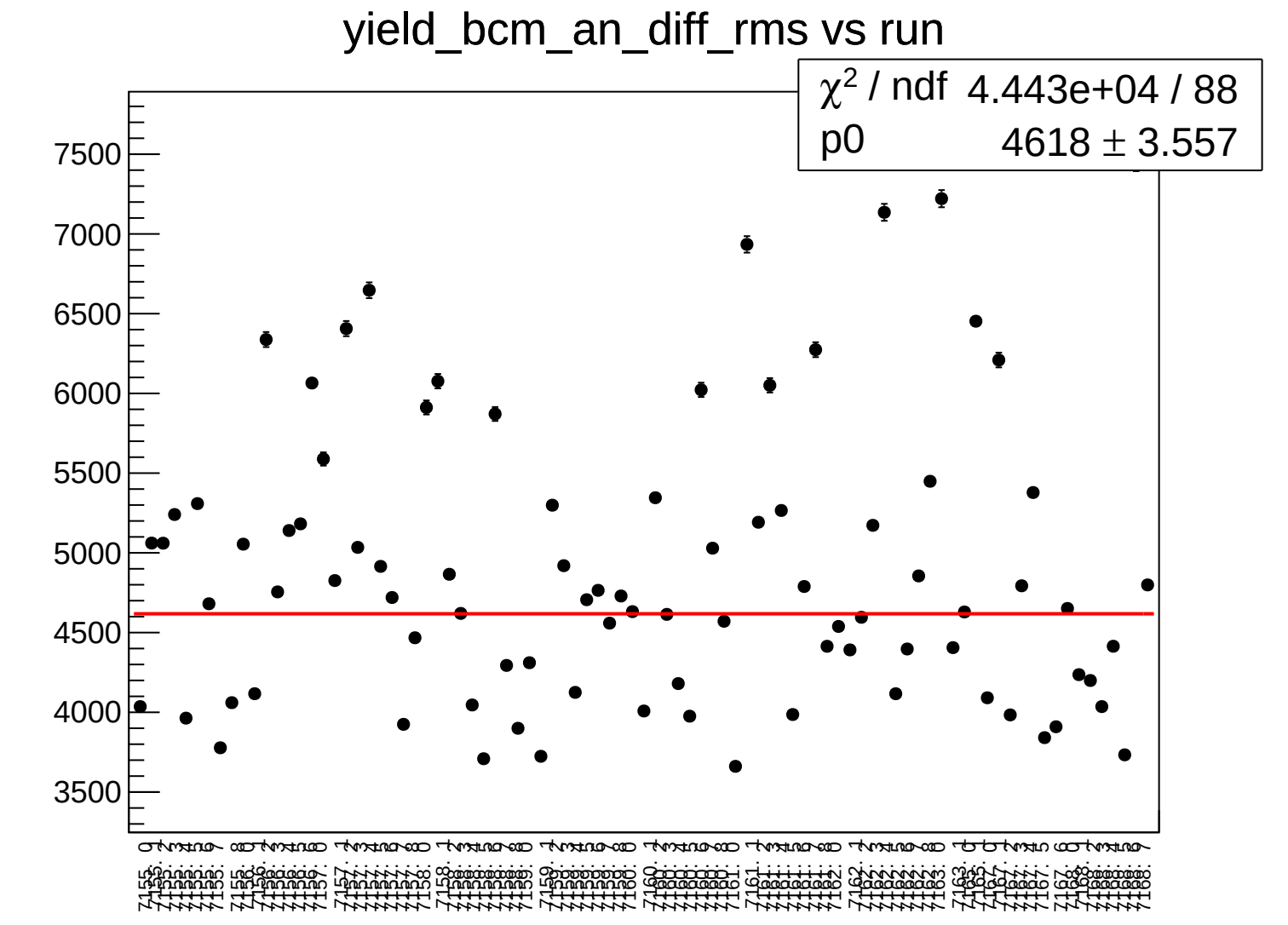

pull1D
Entries 89
Mean 1.153
Std Dev 4.345
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

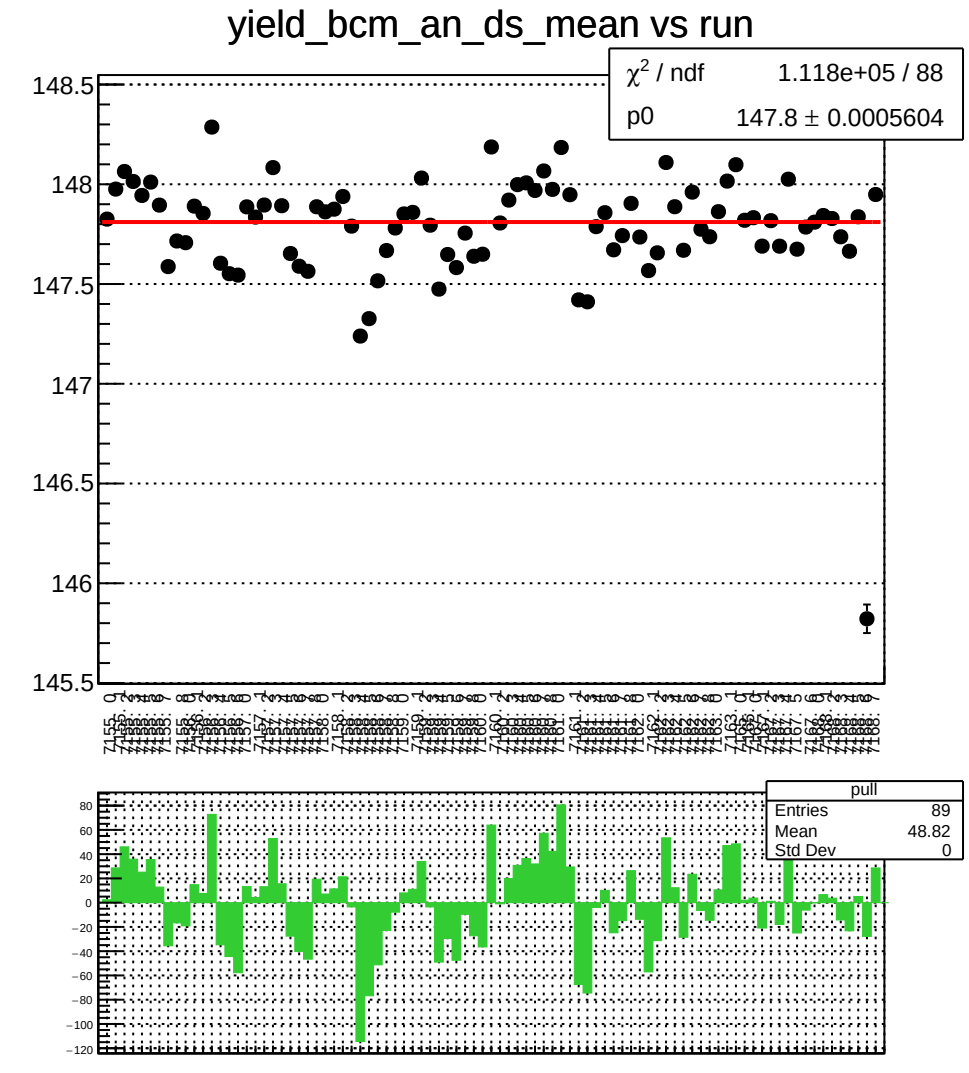
yield_bcm_target_rms vs run

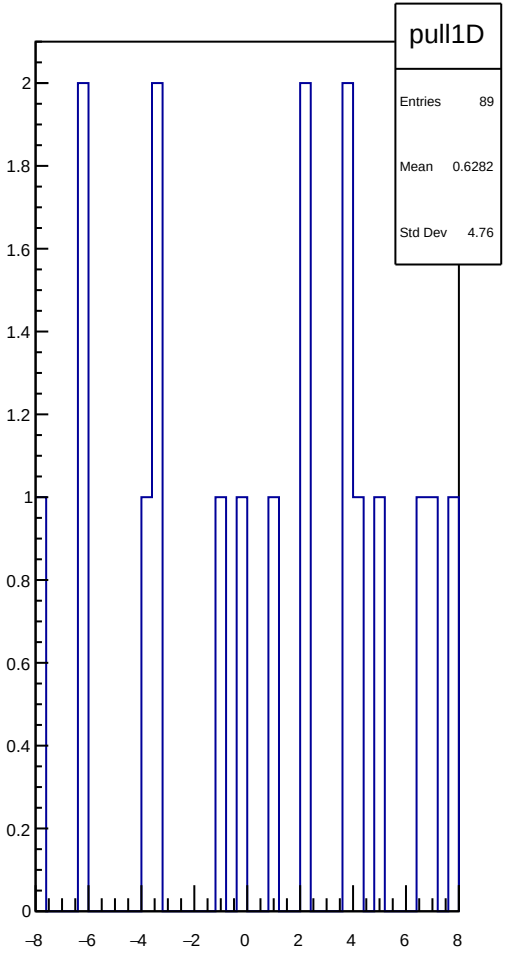


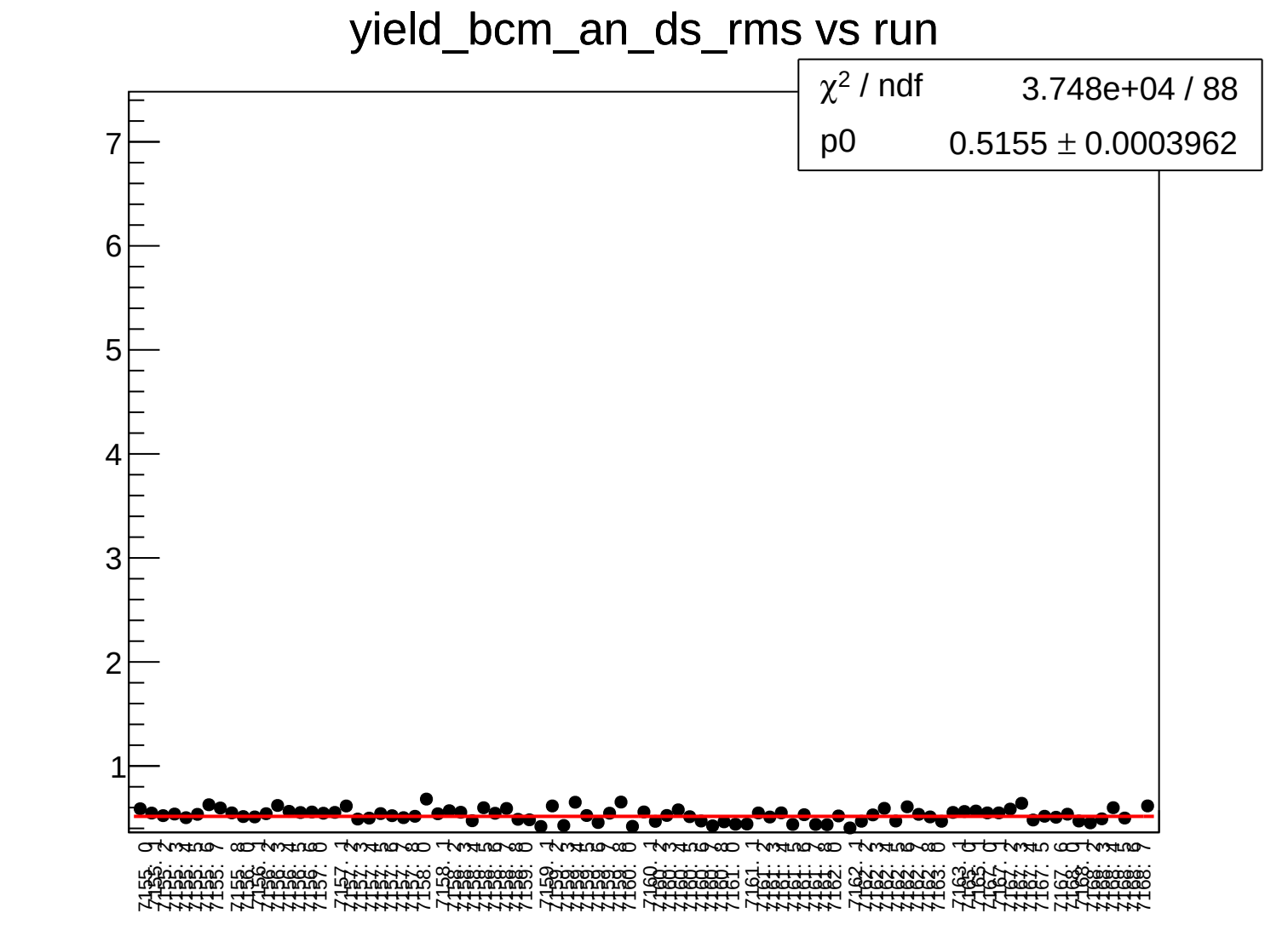

yield_bcm_an_diff_mean vs run
χ² / ndf 1.582e+06 / 88
p0 9493 ± 5.03
25000
20000
15000
10000
5000
0
−5000
pull
Entries 89
Mean −182.3
Std Dev 0
400
300
200
100
0
−100
−200
−300

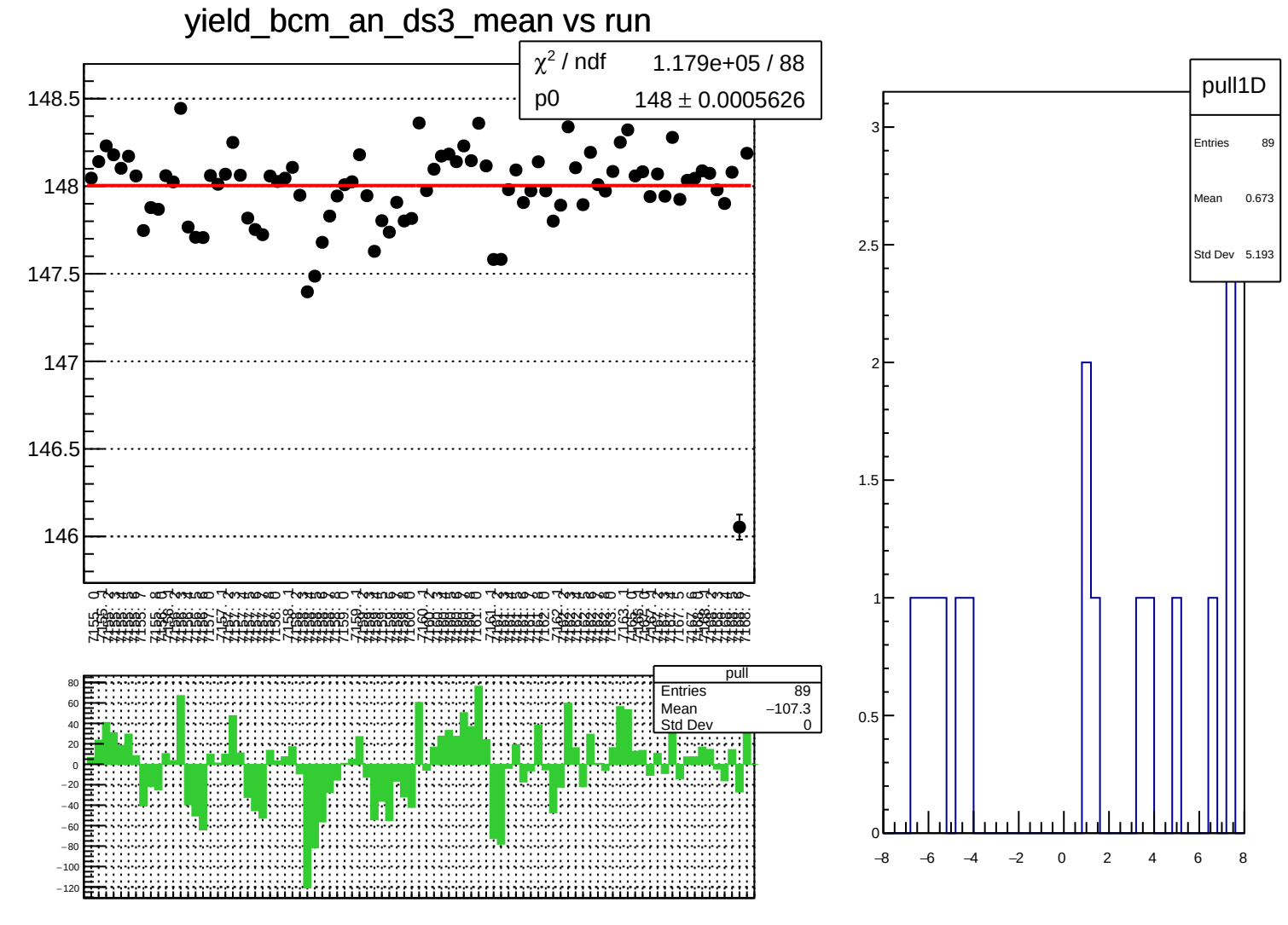

pull1D
Entries 89
Mean −2.365
Std Dev 4.134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

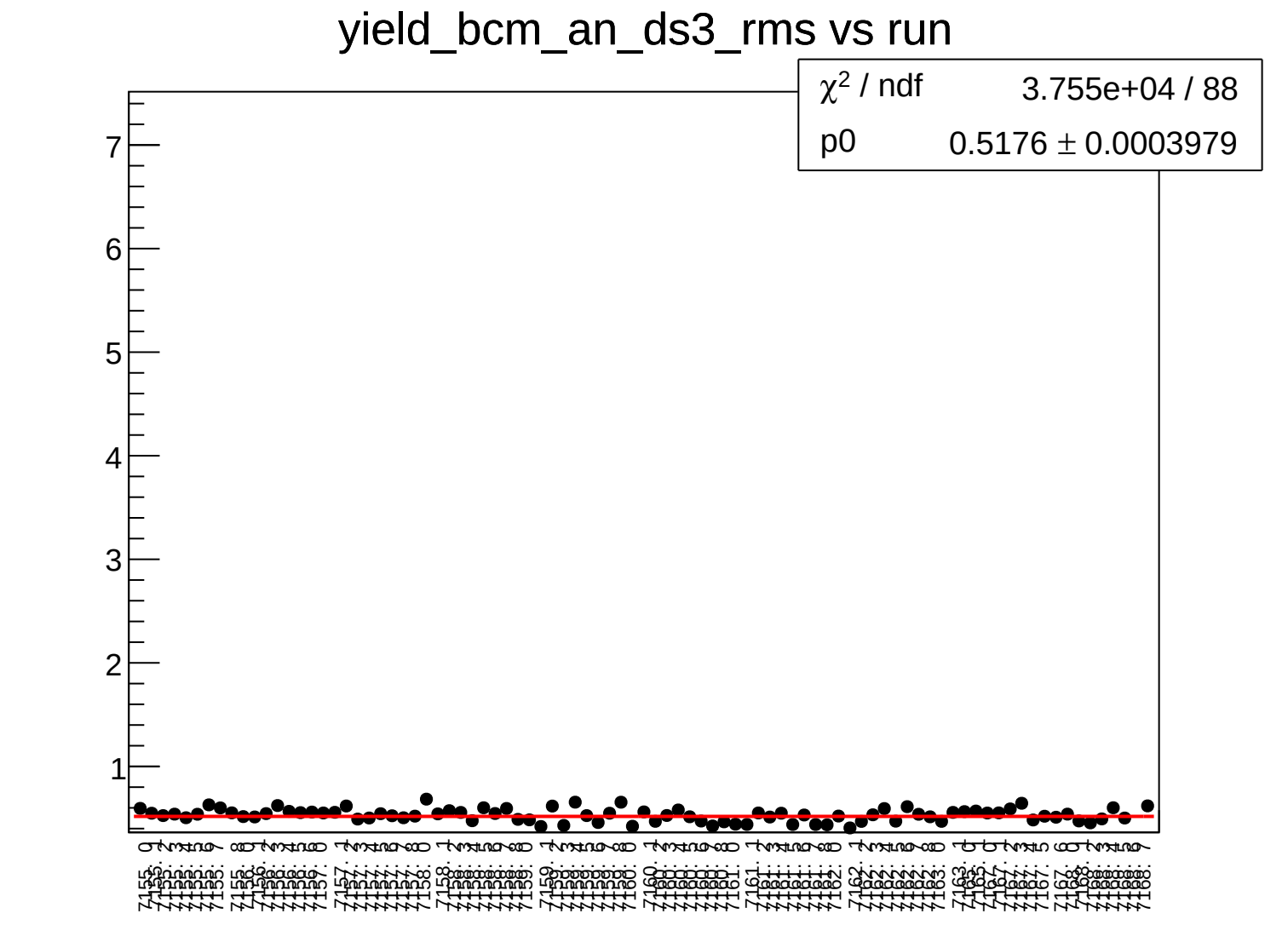

yield_bcm_an_diff_rms vs run
χ^2 / ndf 4.443e+04 / 88
p0 4618 ± 3.557
7500
7000
6500
6000
5500
5000
4500
4000
3500

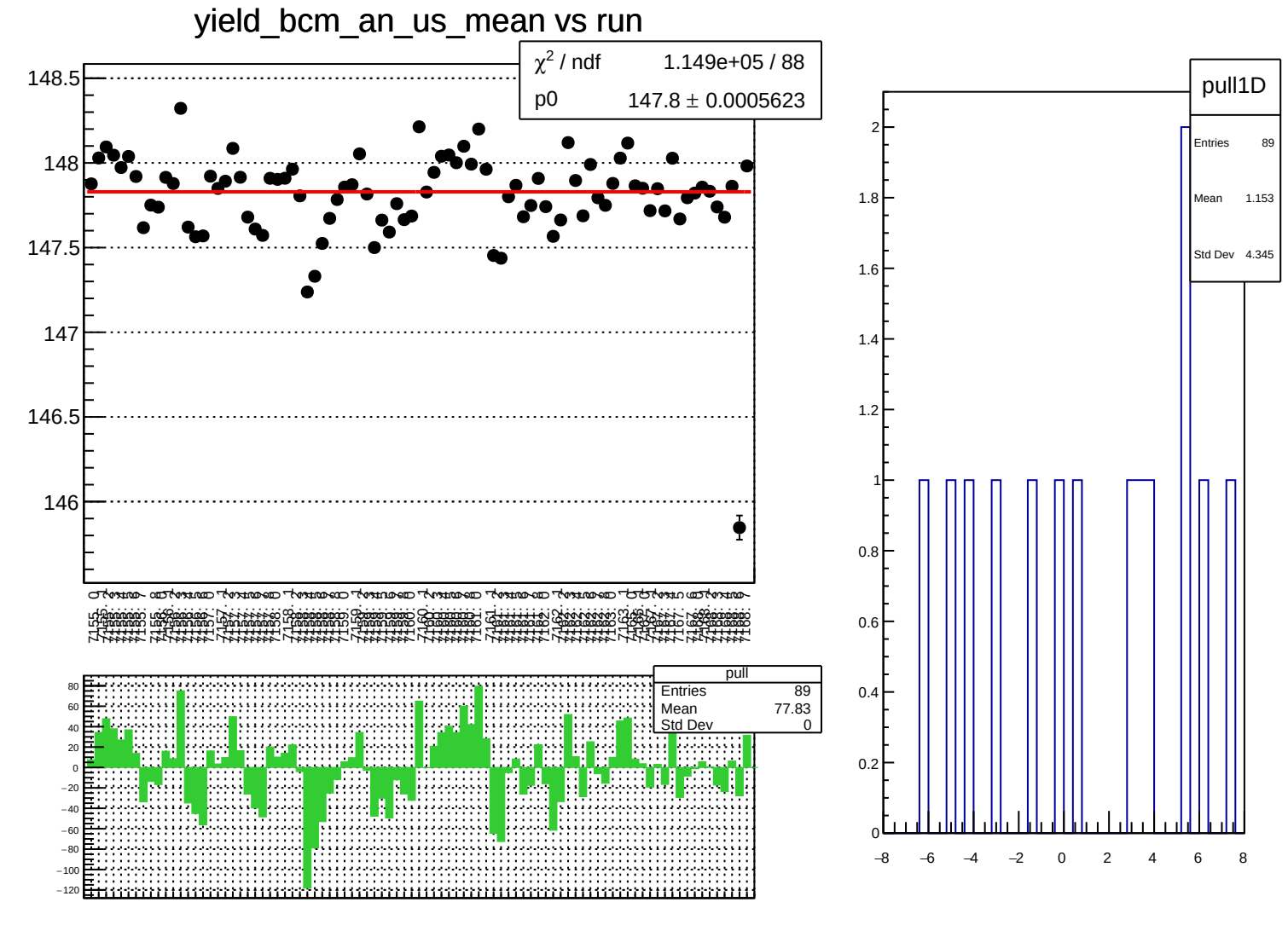

yield_bcm_an_ds_mean vs run
χ² / ndf 1.118e+05 / 88
p0 147.8 ± 0.0005604
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 89
Mean 48.82
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

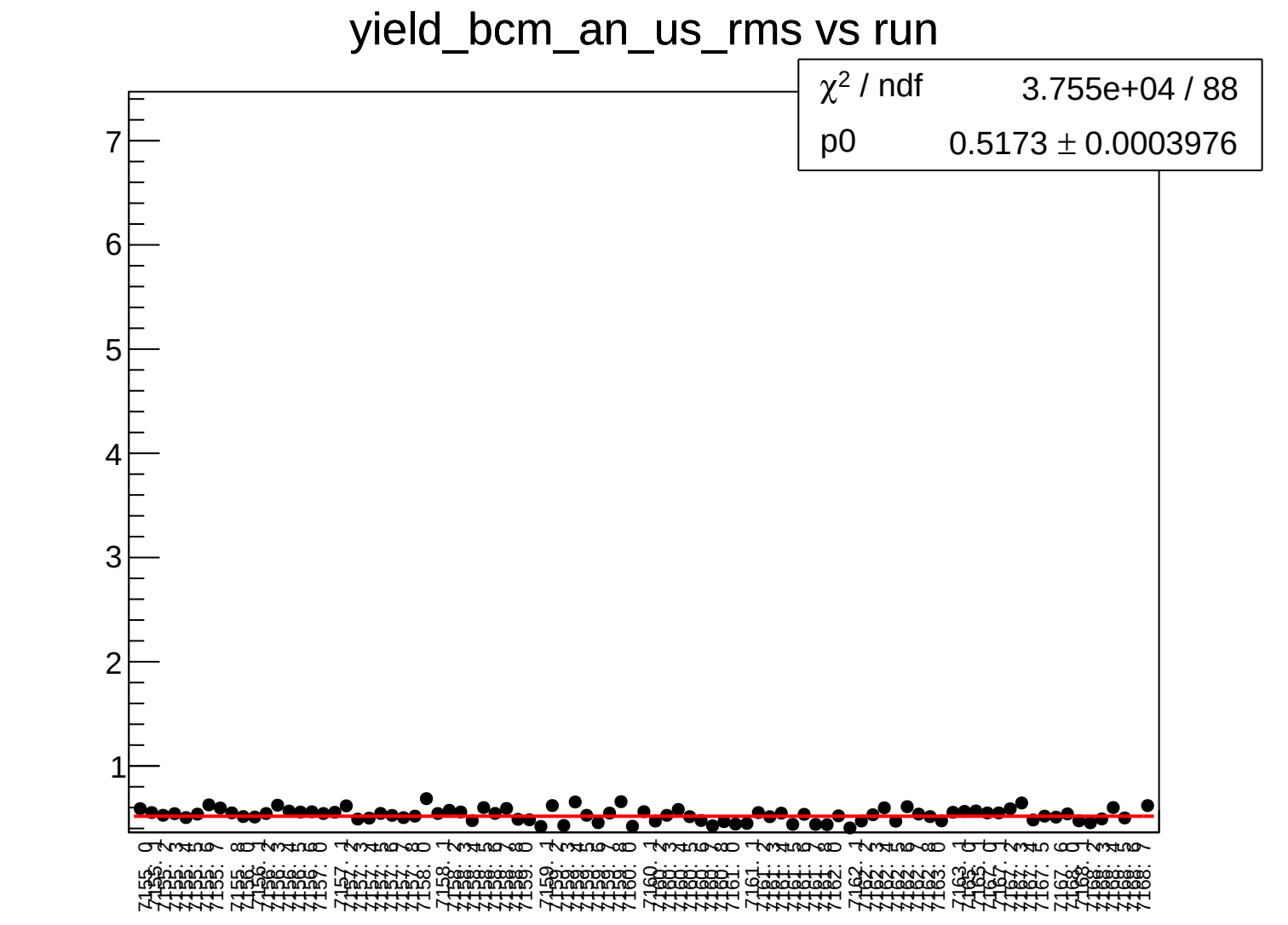

pull1D
Entries 89
Mean 0.6282
Std Dev 4.76
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

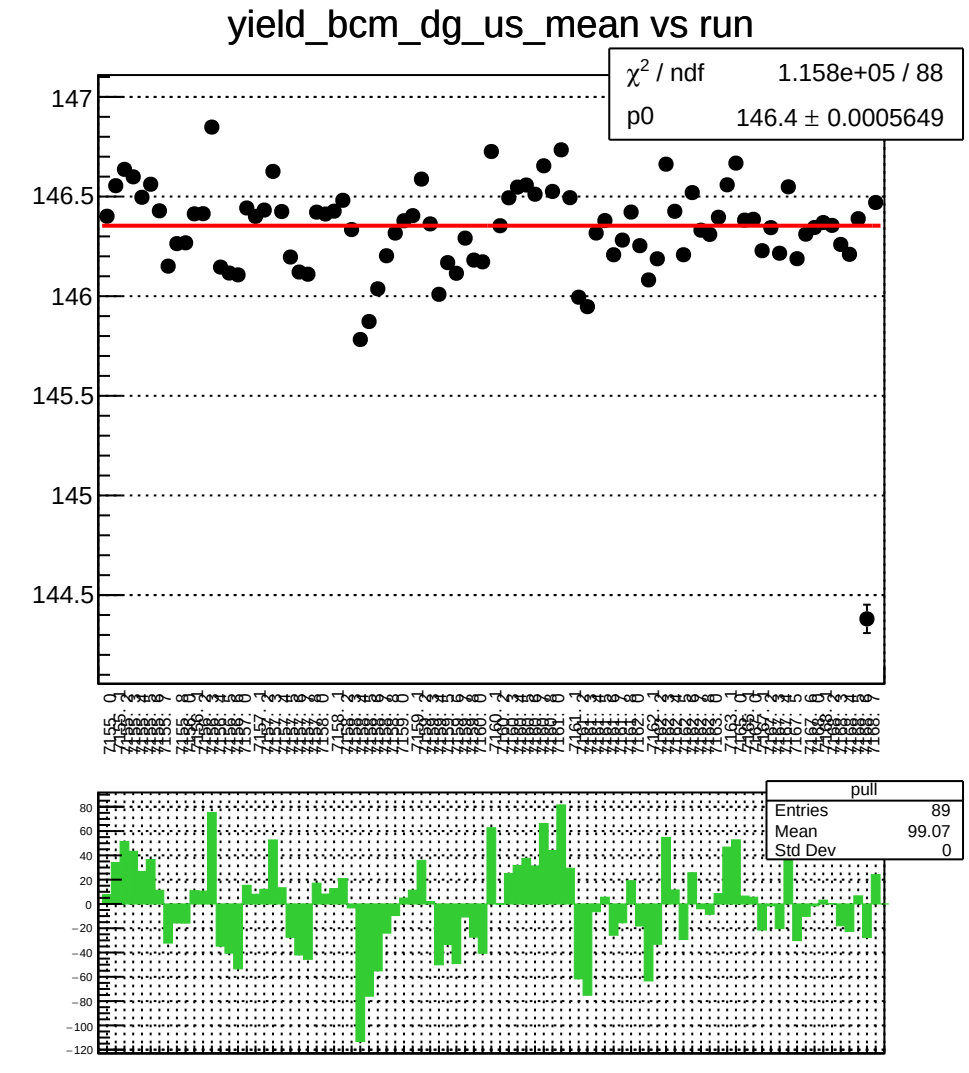

yield_bcm_an_ds_rms vs run
χ^2 / ndf 3.748e+04 / 88
p0 0.5155 ± 0.0003962
7
6
5
4
3
2
1

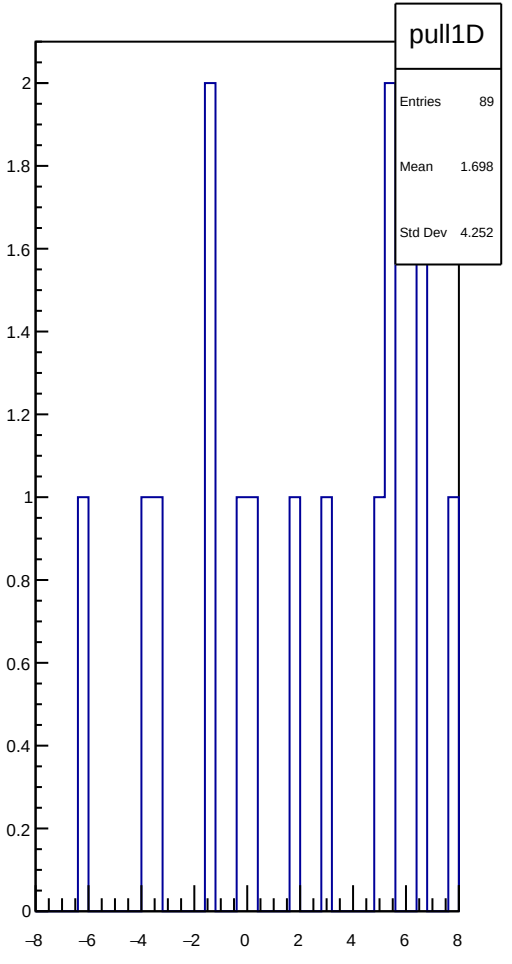

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.179e+05 / 88
p0 148 ± 0.0005626
148.5
148
147.5
147
146.5
146
pull
Entries 89
Mean −107.3
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 89
Mean 0.673
Std Dev 5.193
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

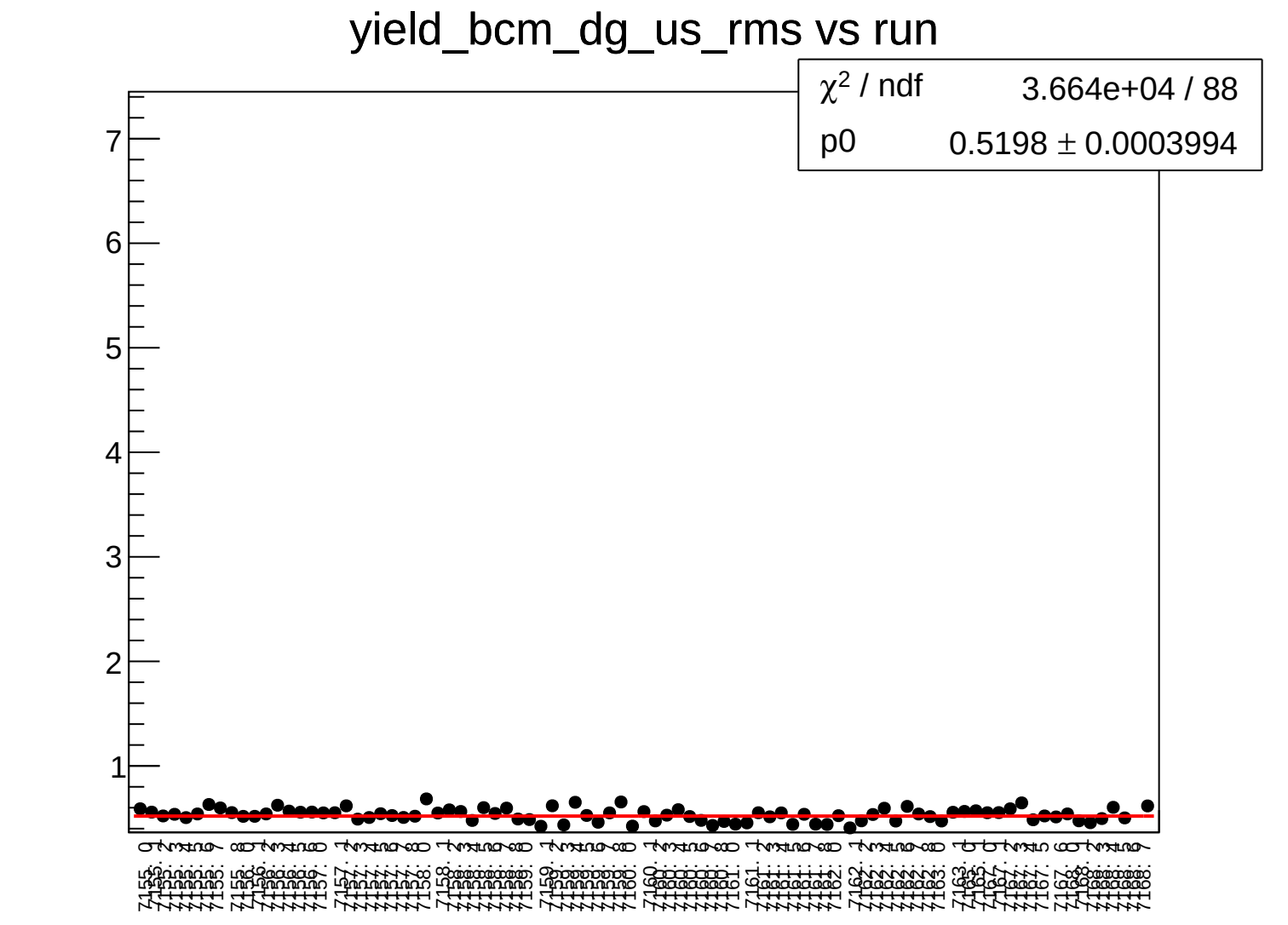

yield_bcm_an_ds3_rms vs run
χ² / ndf 3.755e+04 / 88
p0 0.5176 ± 0.0003979
7
6
5
4
3
2
1

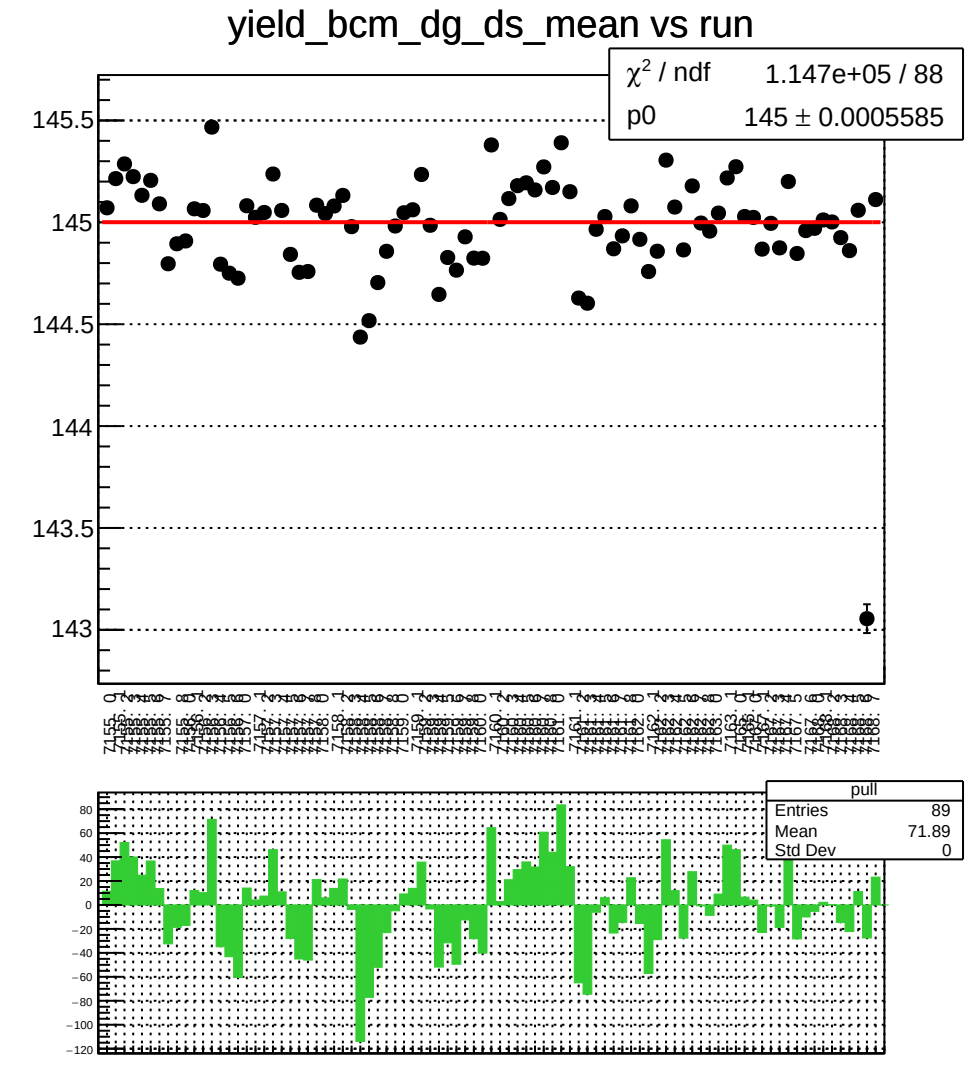

yield_bcm_an_us_mean vs run
χ² / ndf 1.149e+05 / 88
p0 147.8 ± 0.0005623
148.5
148
147.5
147
146.5
146
pull
Entries 89
Mean 77.83
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 89
Mean 1.153
Std Dev 4.345
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

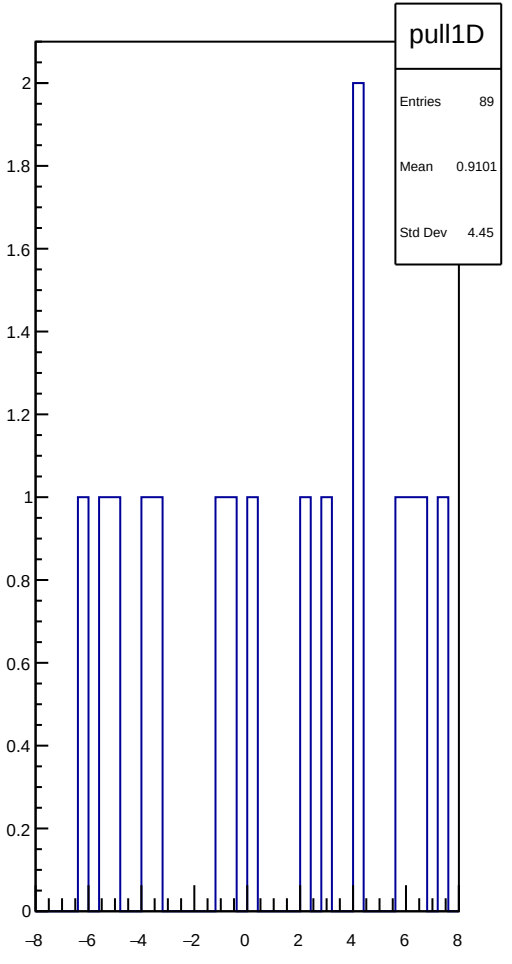

yield_bcm_an_us_rms vs run
χ² / ndf 3.755e+04 / 88
p0 0.5173 ± 0.0003976
7
6
5
4
3
2
1

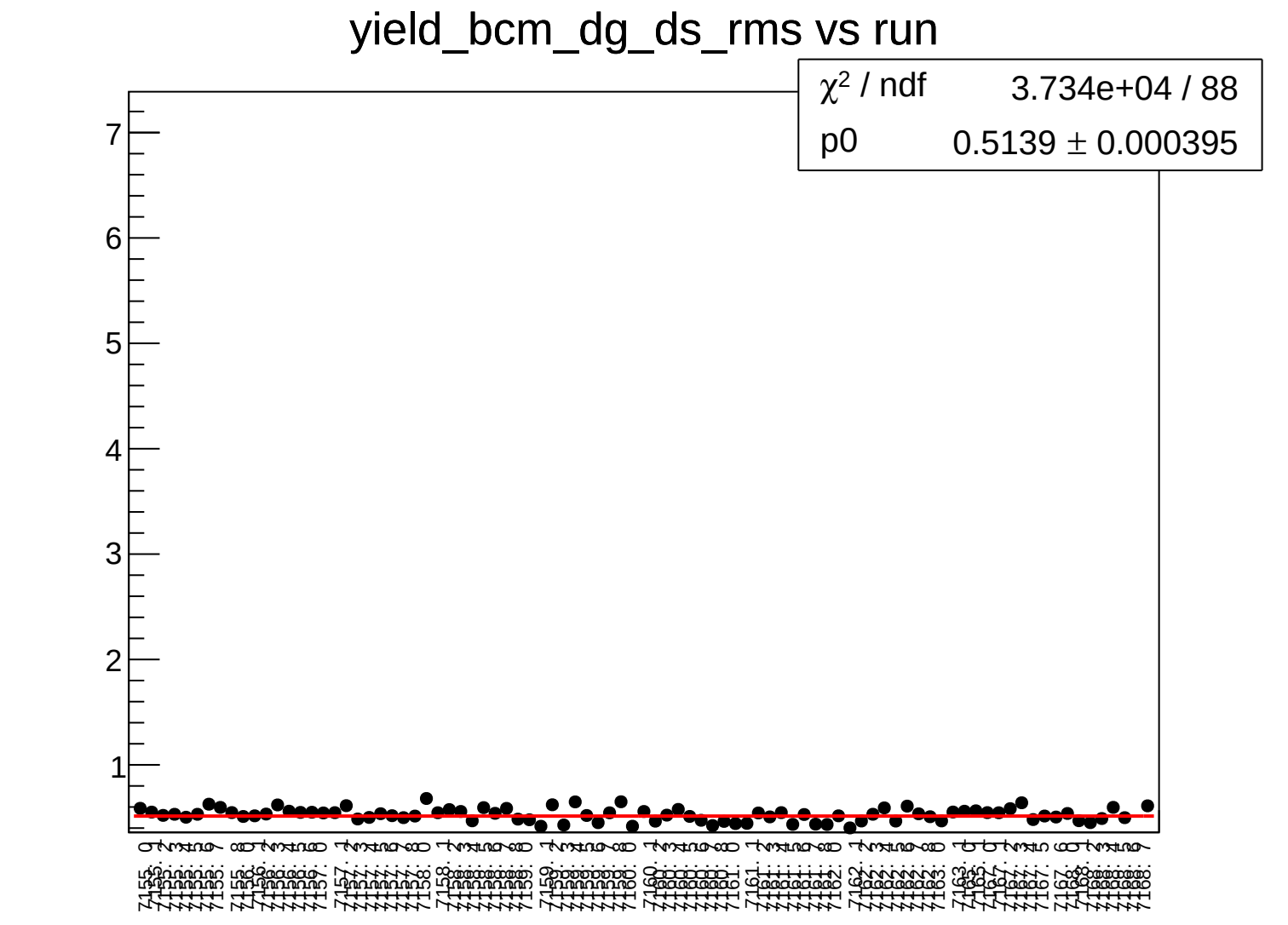

yield_bcm_dg_us_mean vs run
χ² / ndf 1.158e+05 / 88
p0 146.4 ± 0.0005649
147
146.5
146
145.5
145
144.5
pull
Entries 89
Mean 99.07
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

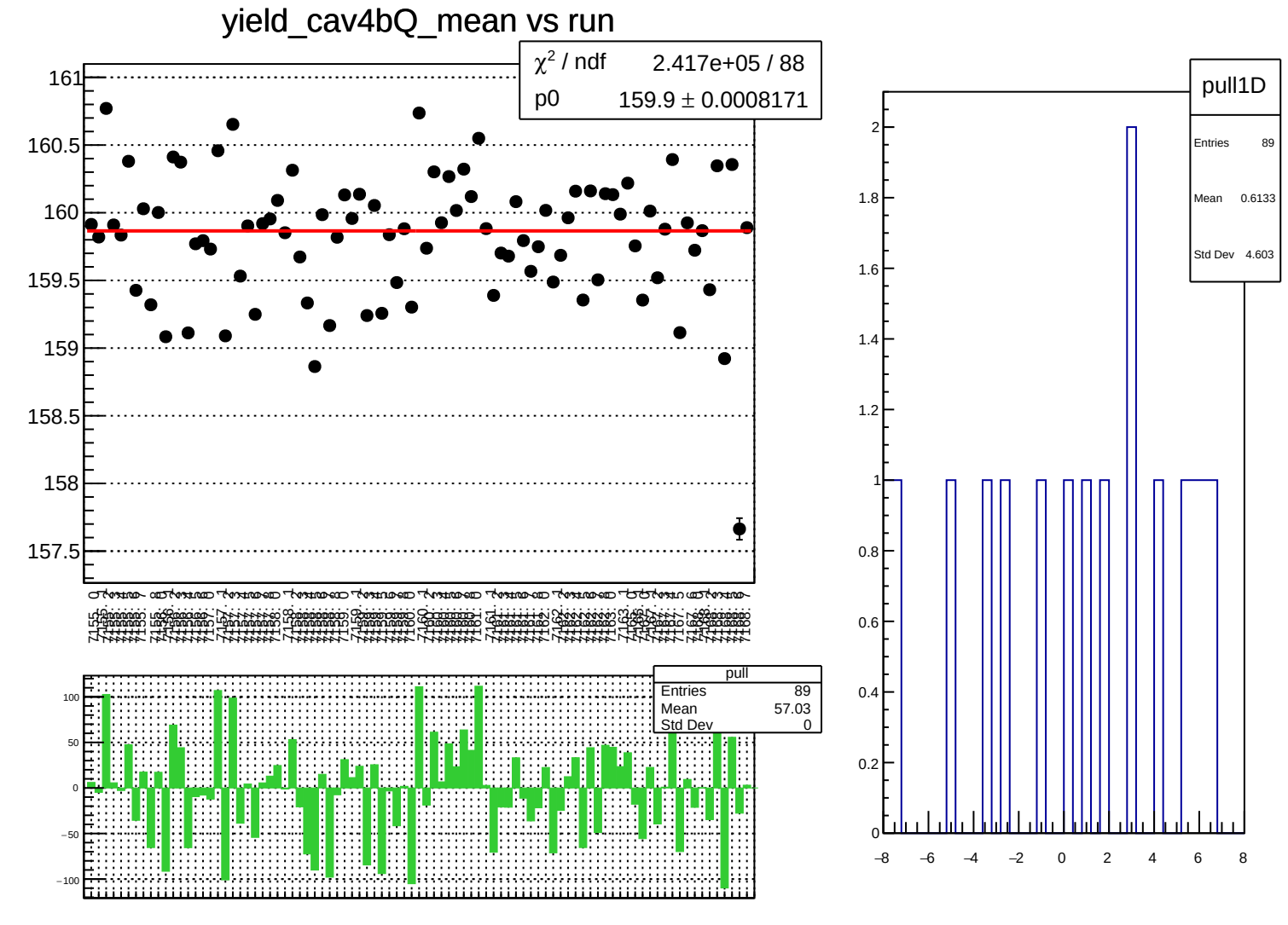

pull1D
Entries 89
Mean 1.698
Std Dev 4.252
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

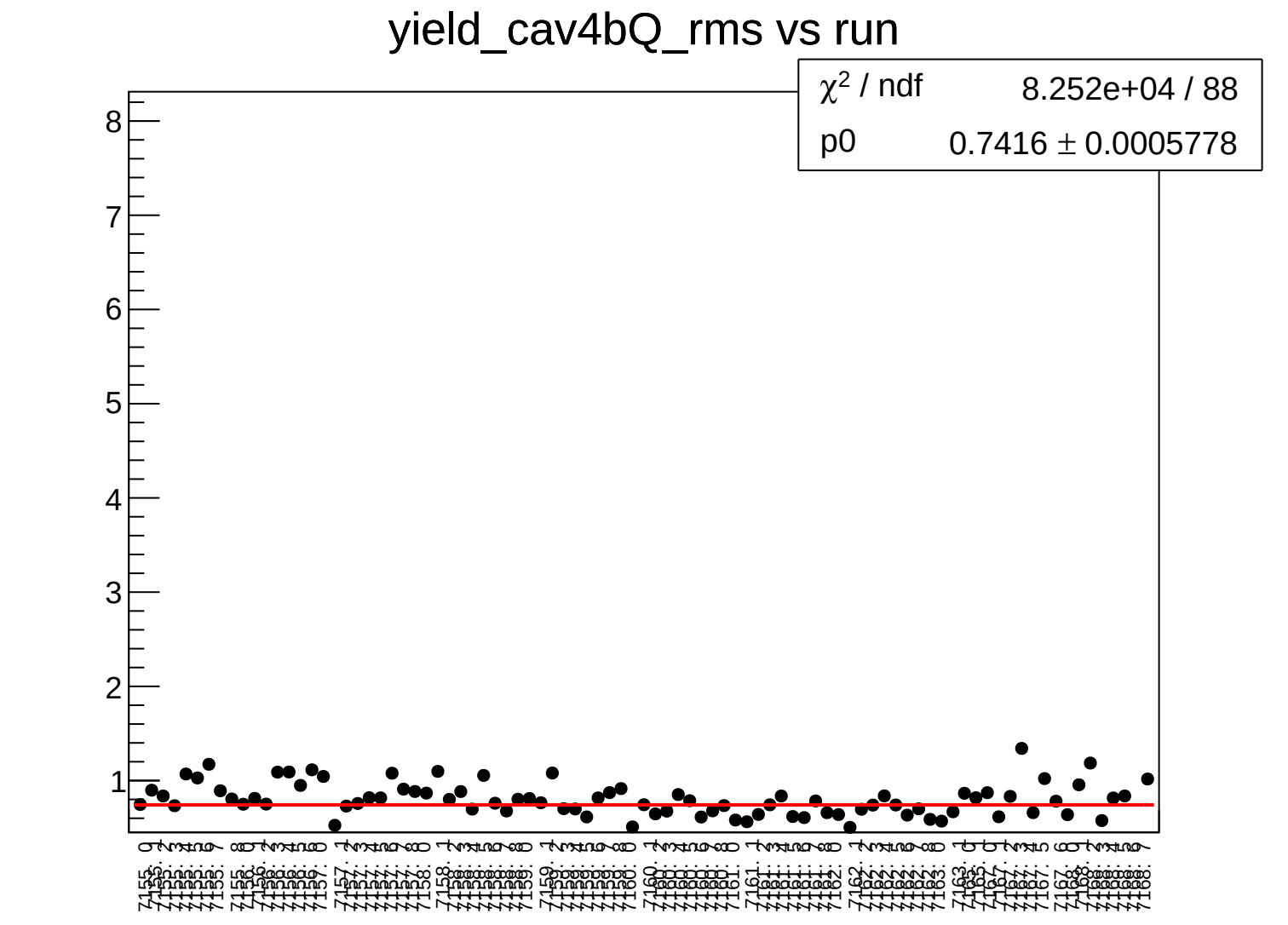

yield_bcm_dg_us_rms vs run
χ² / ndf 3.664e+04 / 88
p0 0.5198 ± 0.0003994
7
6
5
4
3
2
1

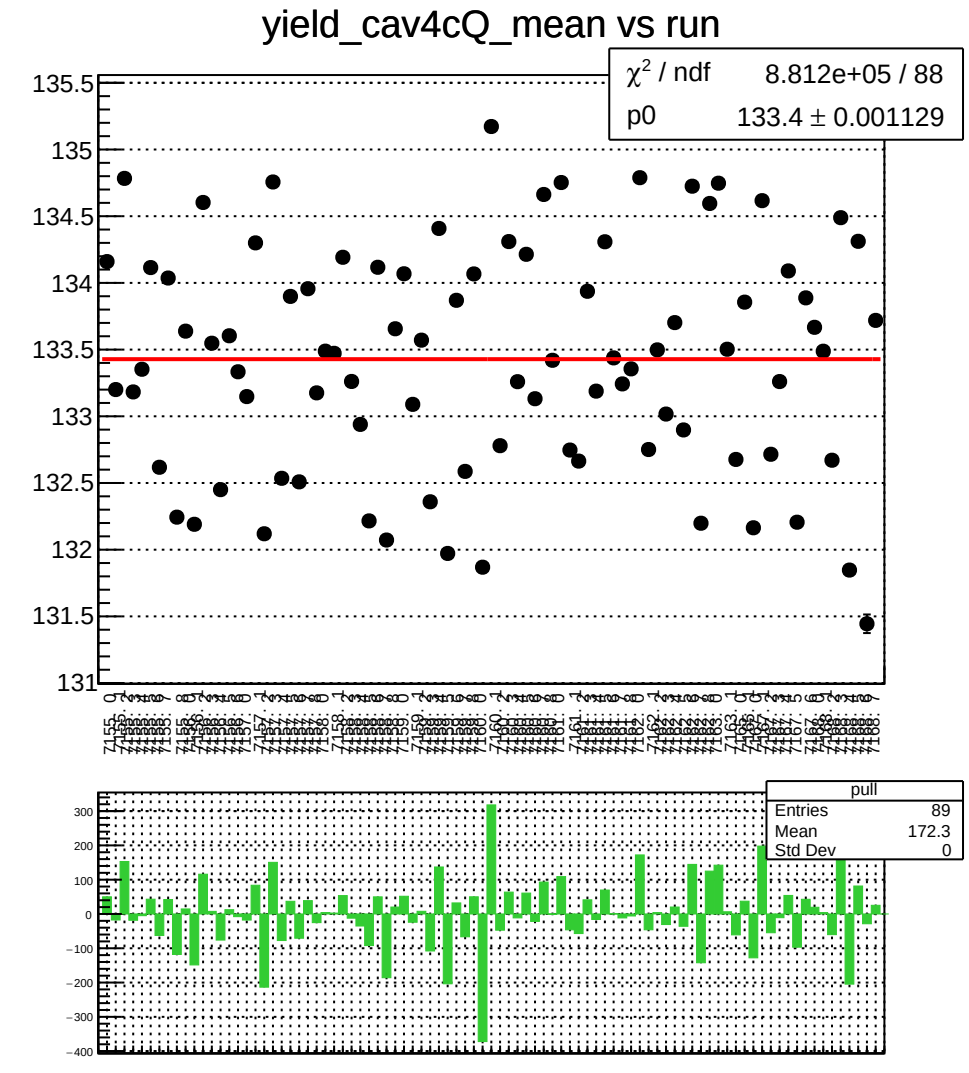

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.147e+05 / 88
p0 145 ± 0.0005585
145.5
145
144.5
144
143.5
143
pull
Entries 89
Mean 71.89
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100
−120

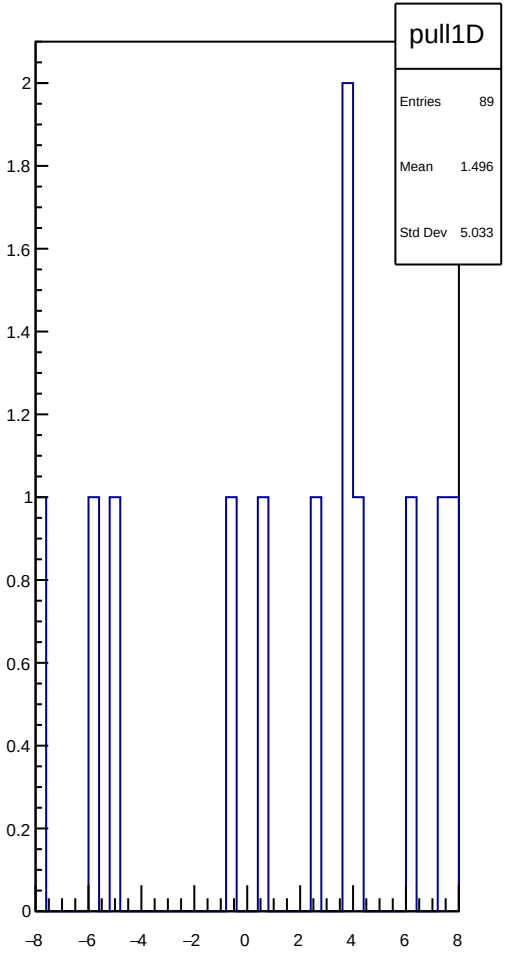

pull1D
Entries 89
Mean 0.9101
Std Dev 4.45
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

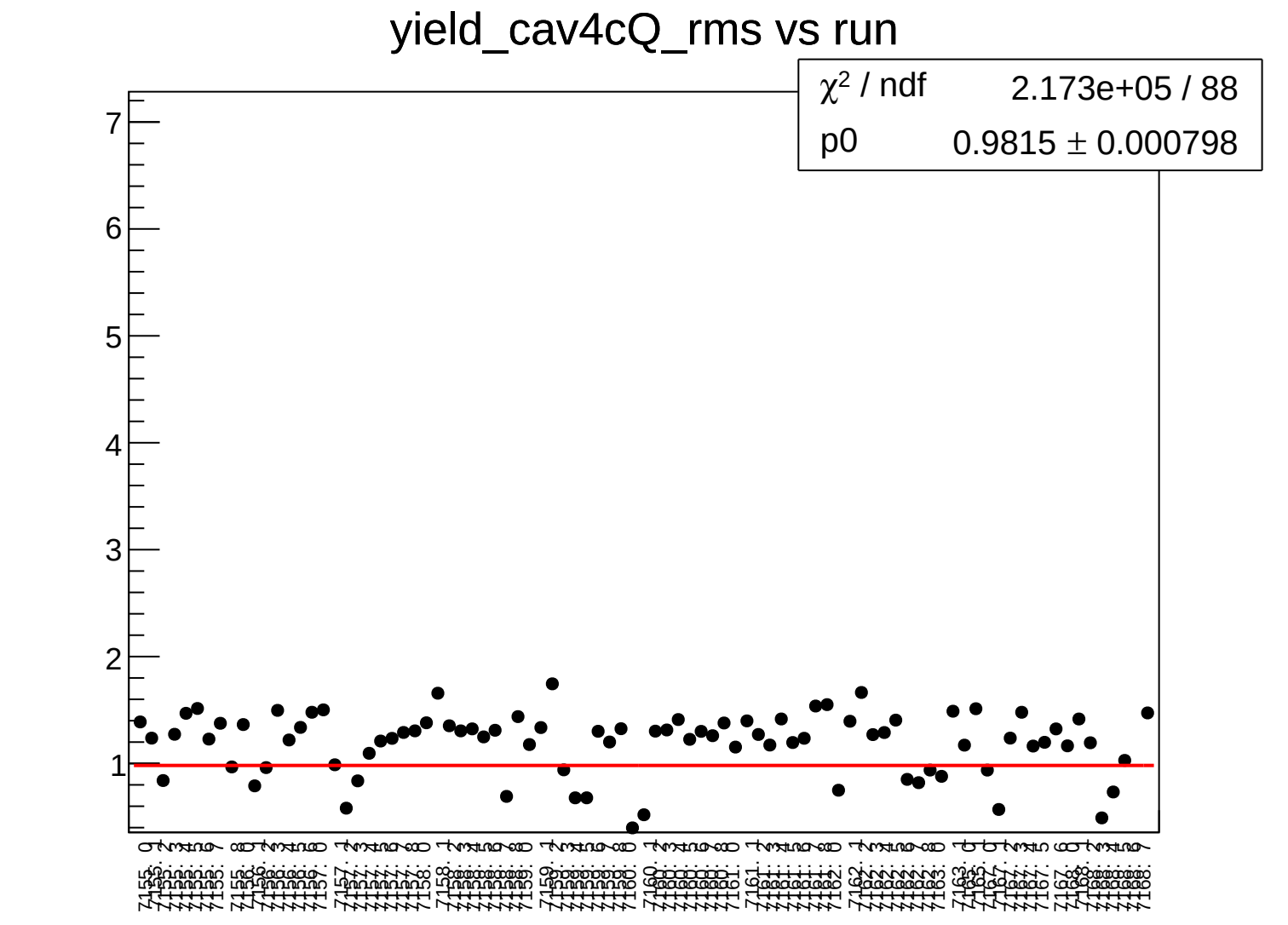

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.734e+04 / 88
p0 0.5139 ± 0.000395
7
6
5
4
3
2
1

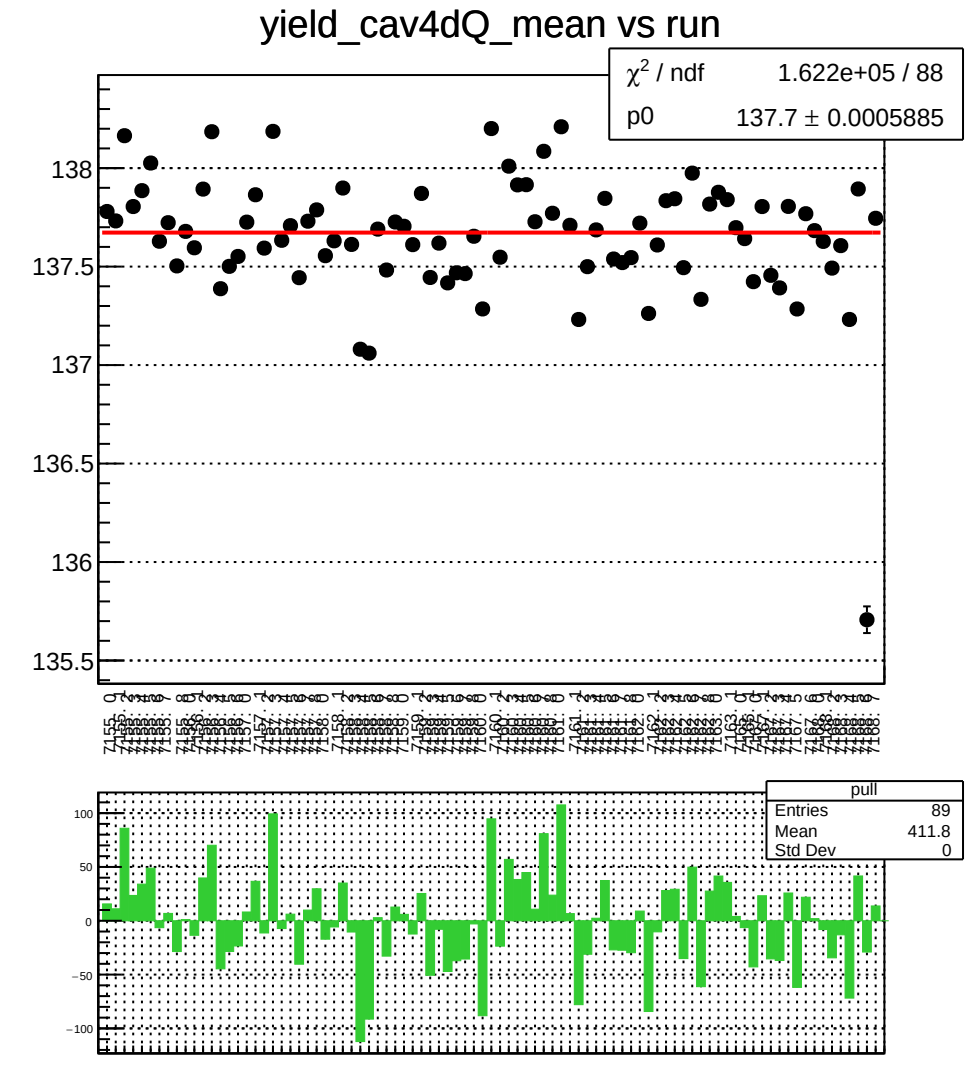

yield_cav4bQ_mean vs run
χ² / ndf 2.417e+05 / 88
p0 159.9 ± 0.0008171
161
160.5
160
159.5
159
158.5
158
157.5
pull
Entries 89
Mean 57.03
Std Dev 0
100
50
0
−50
−100
pull1D
Entries 89
Mean 0.6133
Std Dev 4.603
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

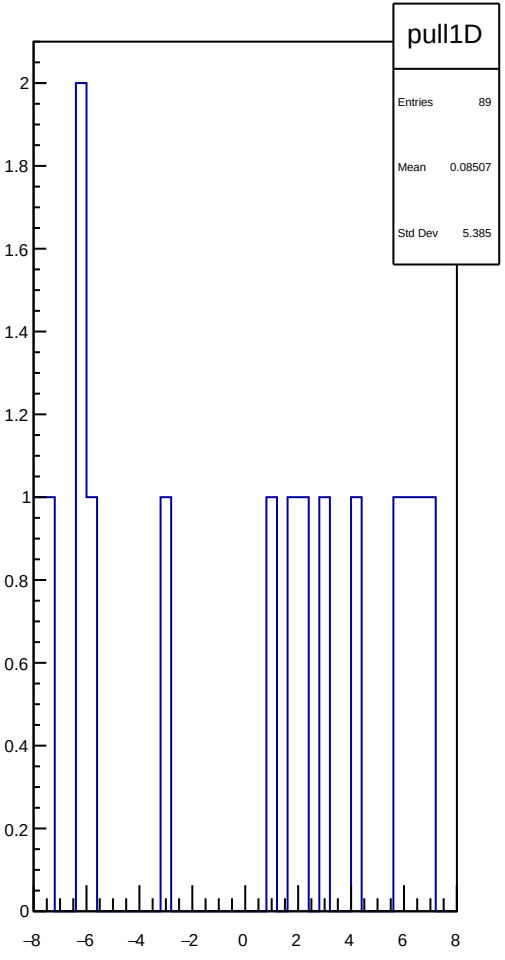

yield_cav4bQ_rms vs run
χ² / ndf 8.252e+04 / 88
p0 0.7416 ± 0.0005778
8
7
6
5
4
3
2
1

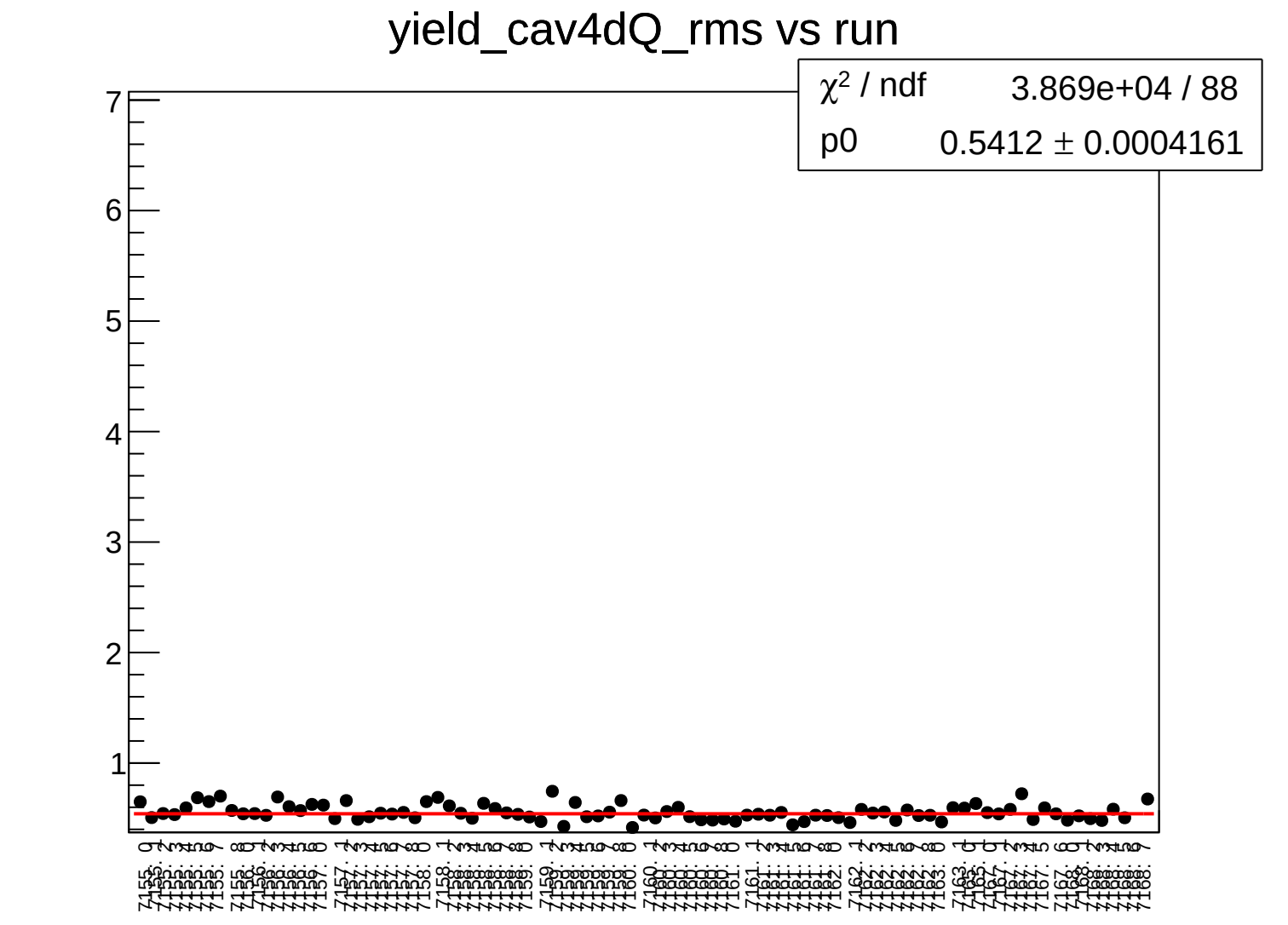

yield_cav4cQ_mean vs run
χ² / ndf 8.812e+05 / 88
p0 133.4 ± 0.001129
135.5
135
134.5
134
133.5
133
132.5
132
131.5
131
pull
Entries 89
Mean 172.3
Std Dev 0
300
200
100
0
−100
−200
−300
−400

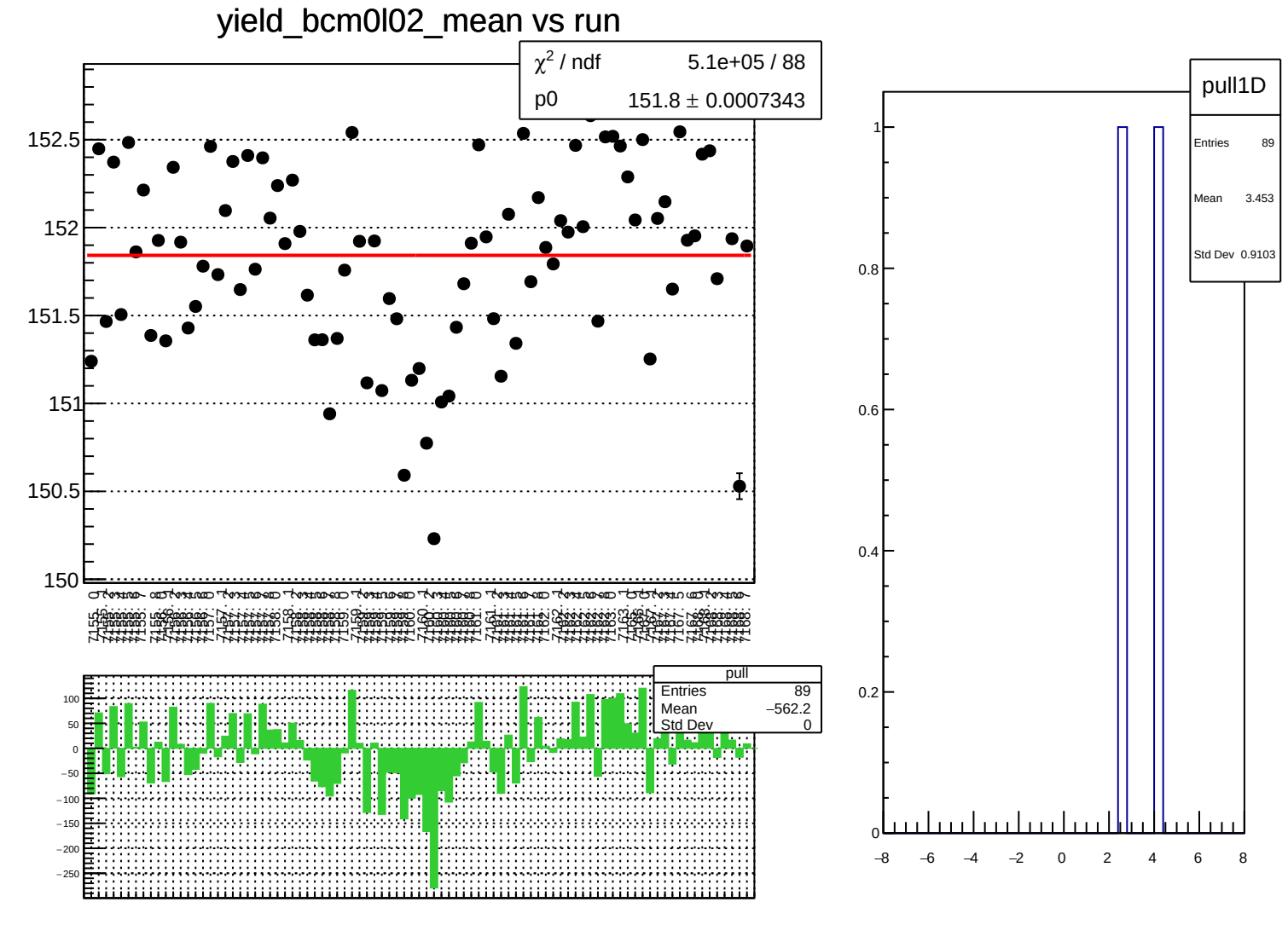

pull1D
Entries 89
Mean 1.496
Std Dev 5.033
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

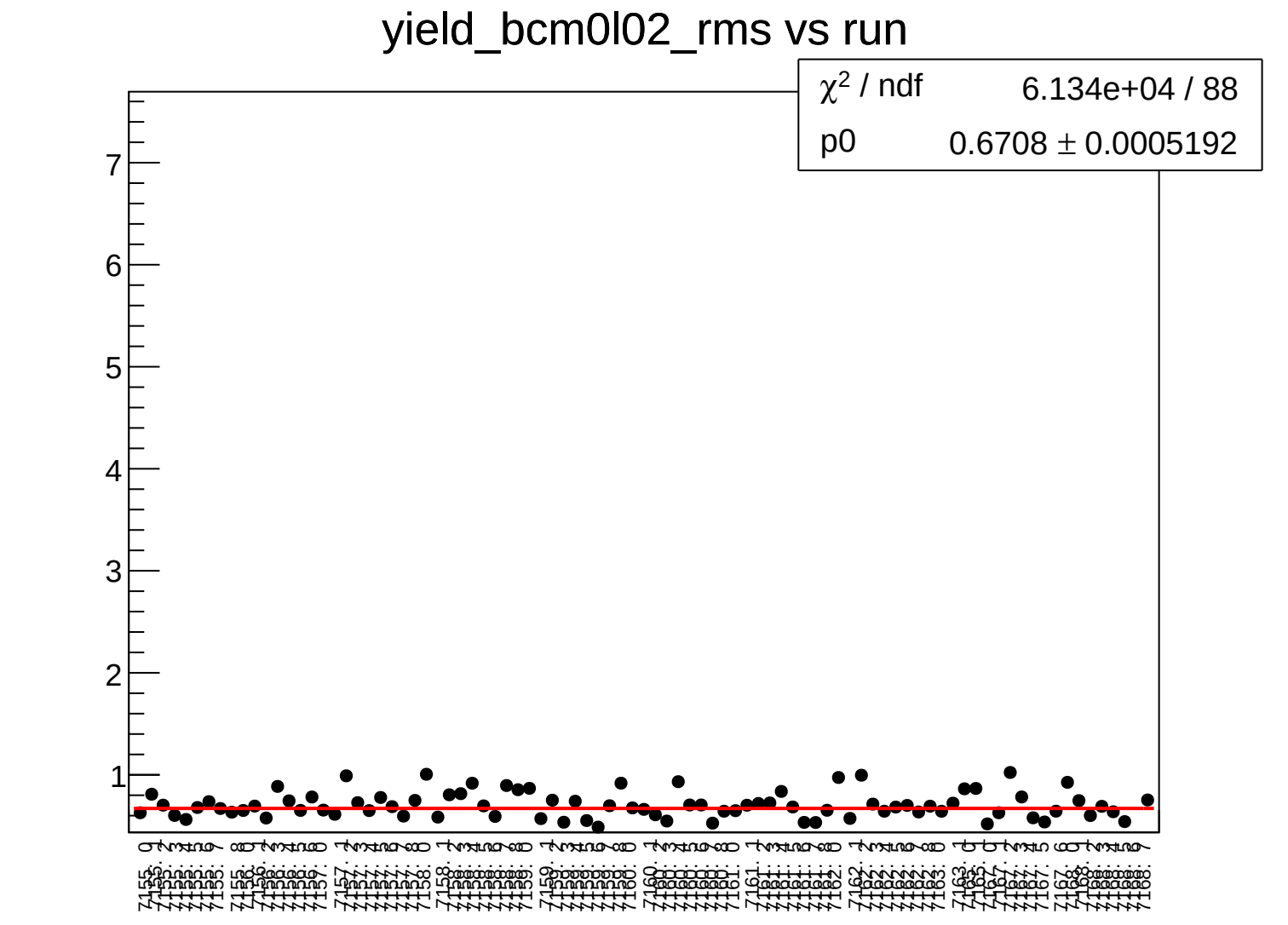

yield_cav4cQ_rms vs run
χ² / ndf 2.173e+05 / 88
p0 0.9815 ± 0.000798
7
6
5
4
3
2
1

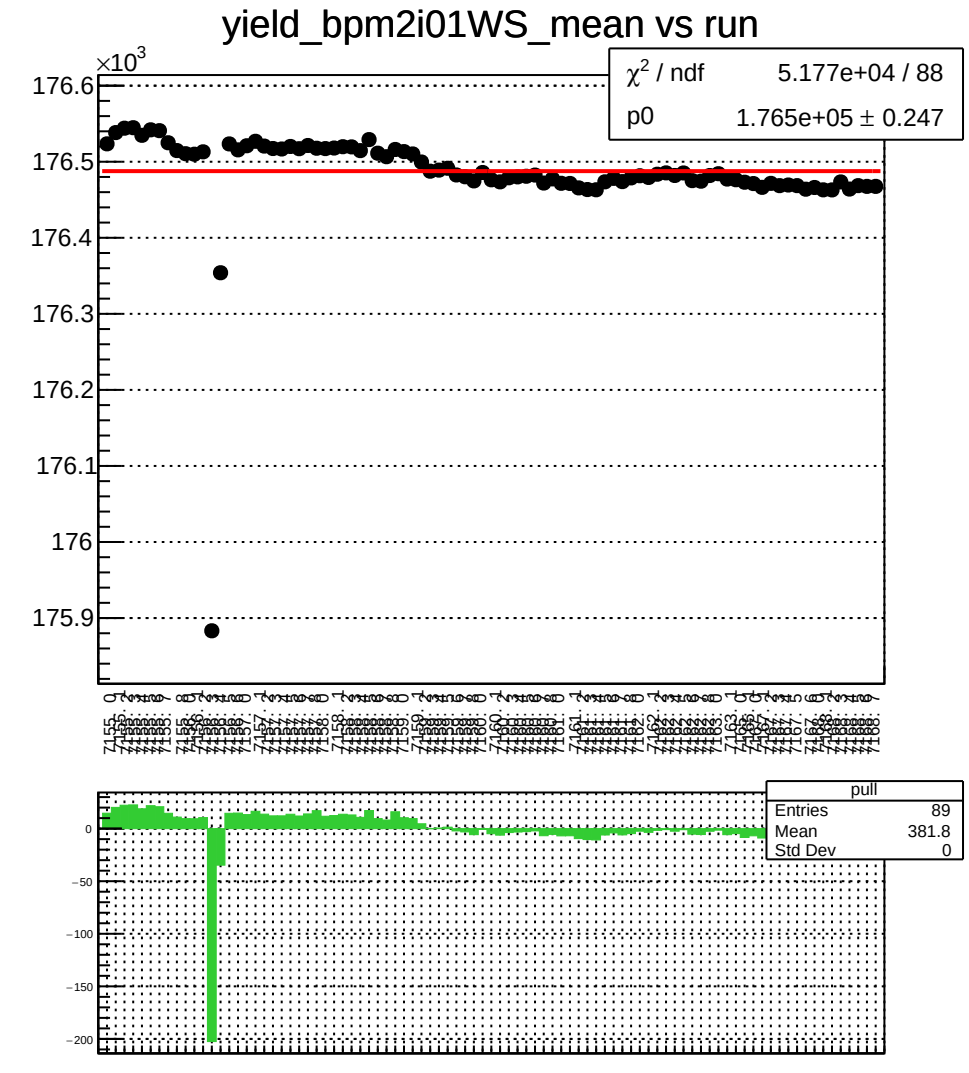

yield_cav4dQ_mean vs run
χ² / ndf 1.622e+05 / 88
p0 137.7 ± 0.0005885
138
137.5
137
136.5
136
135.5
pull
Entries 89
Mean 411.8
Std Dev 0
100
50
0
−50
−100

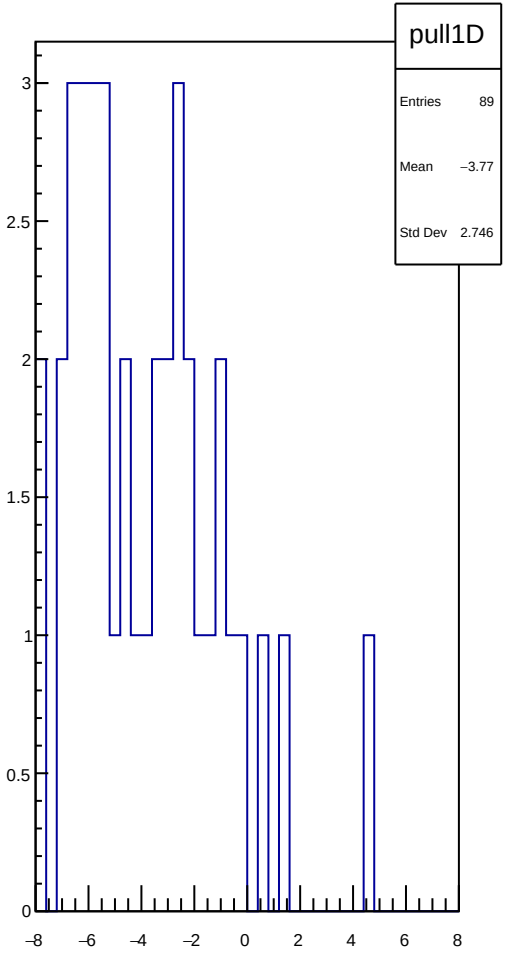

pull1D
Entries 89
Mean 0.08507
Std Dev 5.385
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

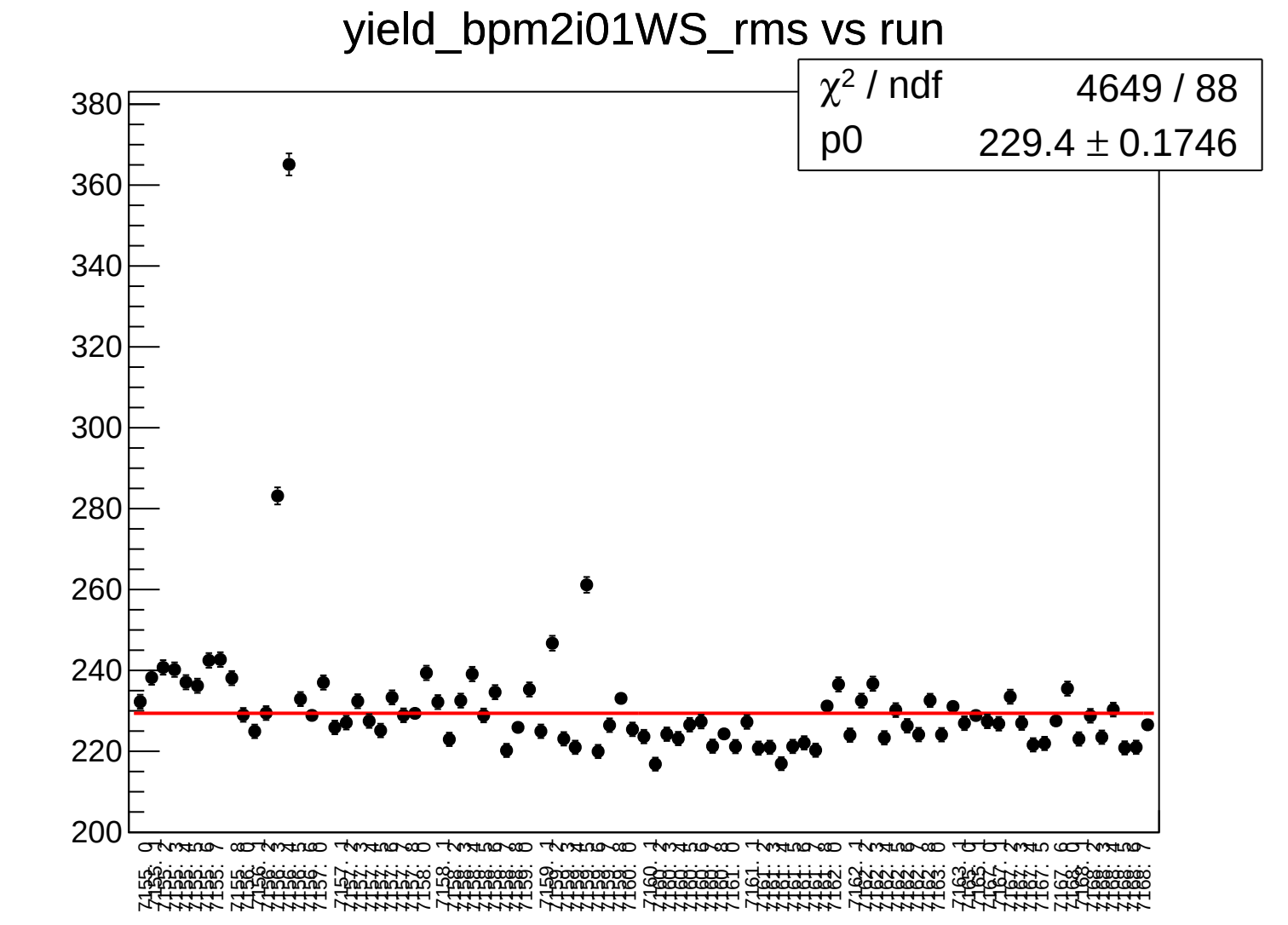

yield_cav4dQ_rms vs run
χ² / ndf 3.869e+04 / 88
p0 0.5412 ± 0.0004161
7
6
5
4
3
2
1

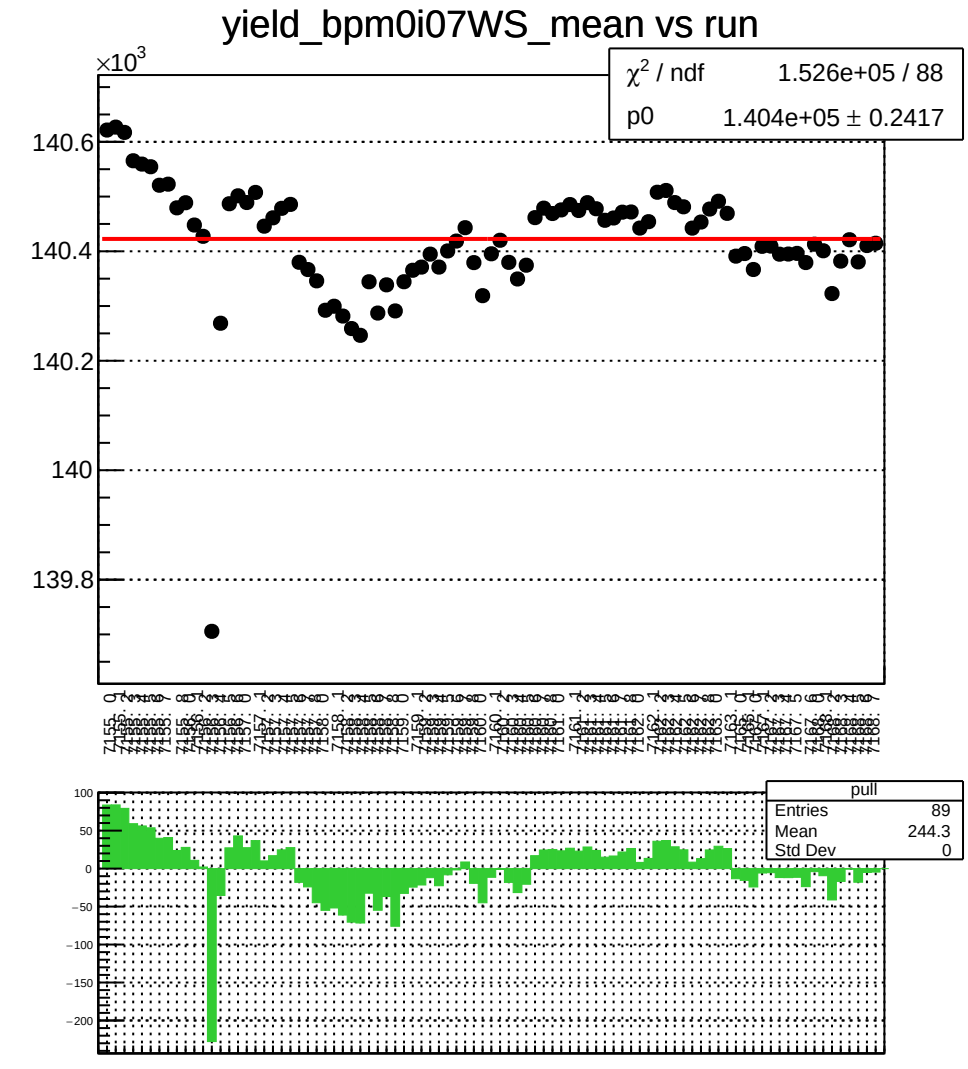

yield_bcm0l02_mean vs run
χ² / ndf 5.1e+05 / 88
p0 151.8 ± 0.0007343
152.5
152
151.5
151
150.5
150
pull
Entries 89
Mean −562.2
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
pull1D
Entries 89
Mean 3.453
Std Dev 0.9103
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

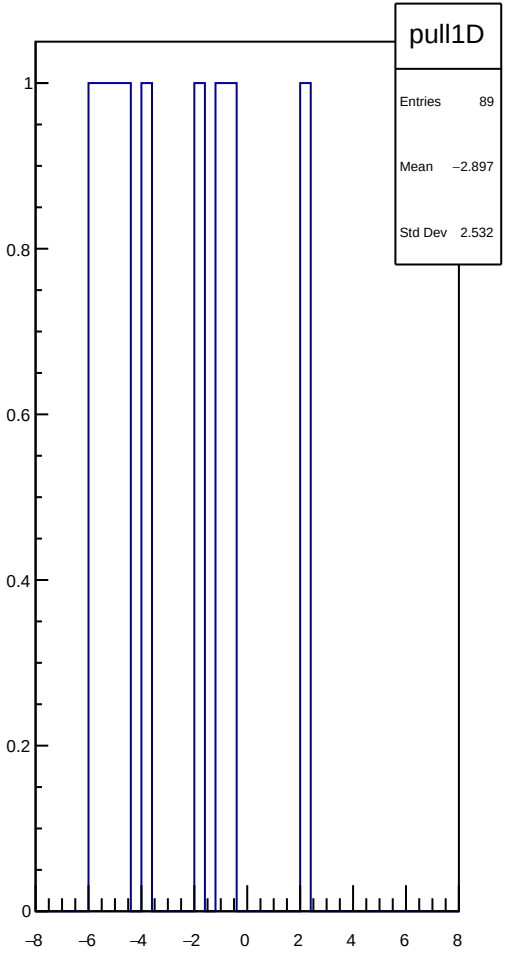

yield_bcm0l02_rms vs run
χ² / ndf 6.134e+04 / 88
p0 0.6708 ± 0.0005192
7
6
5
4
3
2
1

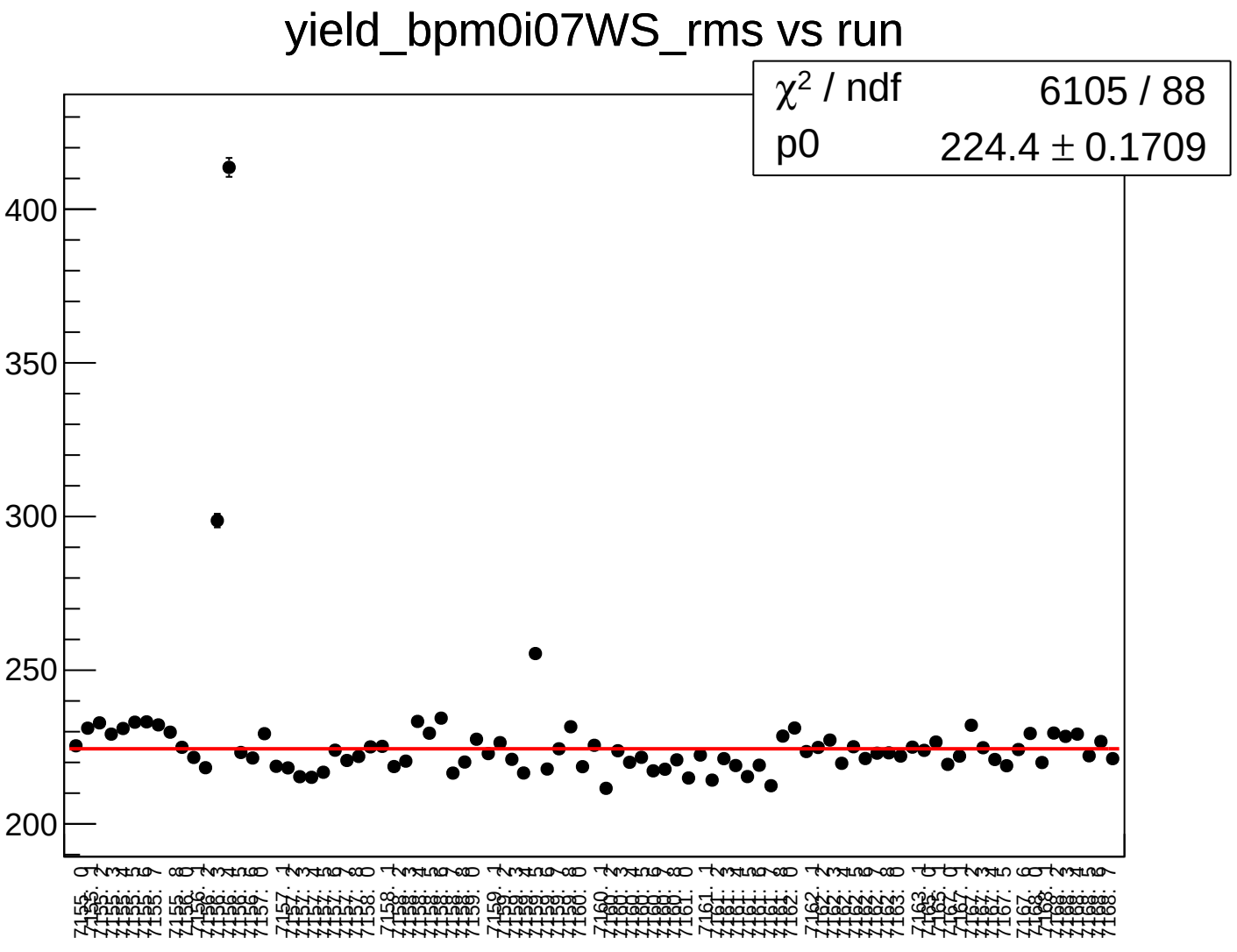

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.177e+04 / 88
p0 1.765e+05 ± 0.247
176.6
176.5
176.4
176.3
176.2
176.1
176
175.9
pull
Entries 89
Mean 381.8
Std Dev 0
0
−50
−100
−150
−200

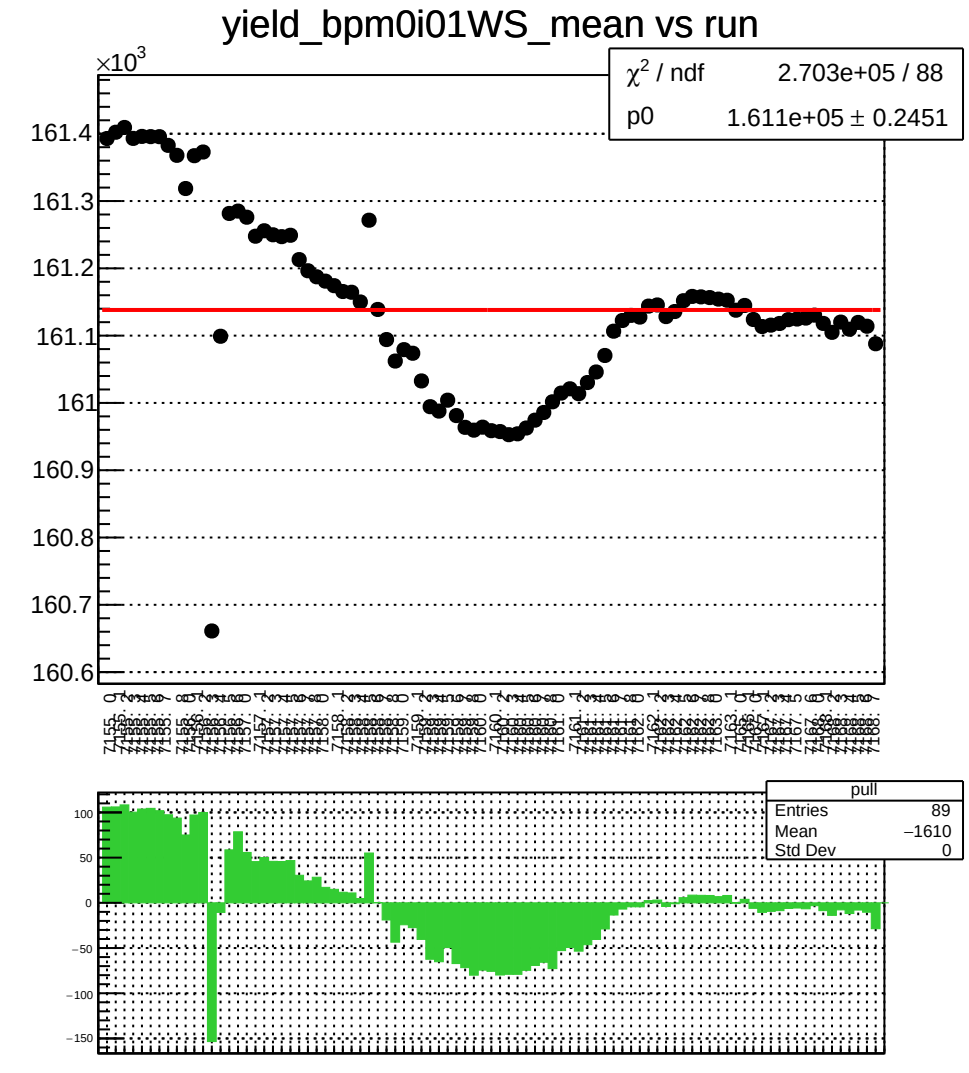

pull1D
Entries 89
Mean −3.77
Std Dev 2.746
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

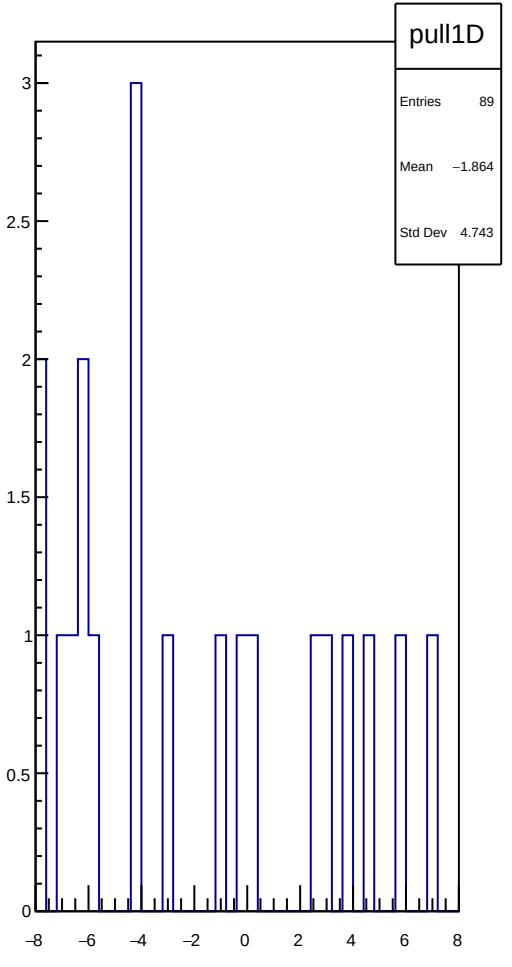

yield_bpm2i01WS_rms vs run
χ² / ndf 4649 / 88
p0 229.4 ± 0.1746
380
360
340
320
300
280
260
240
220
200

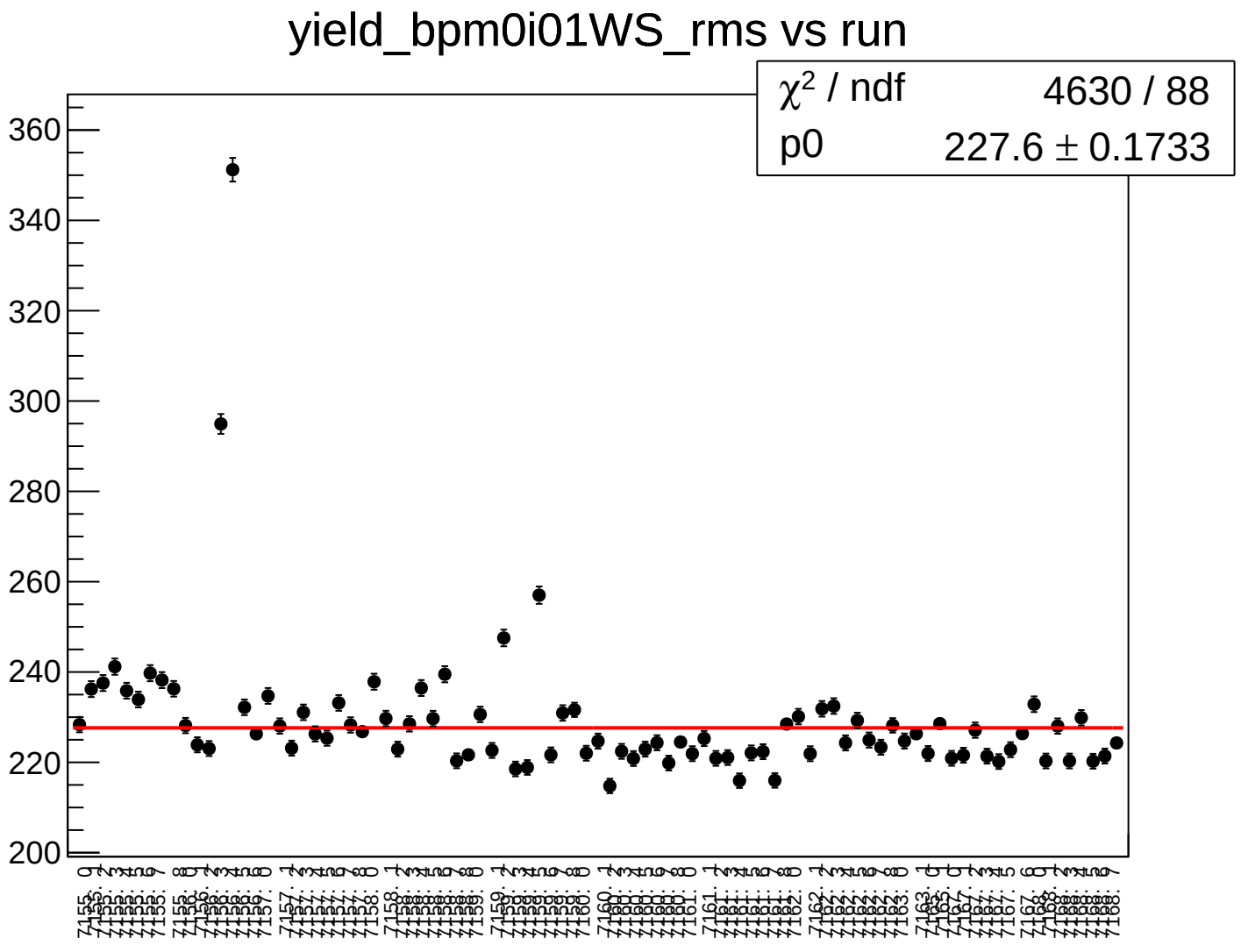

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.526e+05 / 88
p0 1.404e+05 ± 0.2417
140.6
140.4
140.2
140
139.8
pull
Entries 89
Mean 244.3
Std Dev 0
100
50
0
−50
−100
−150
−200

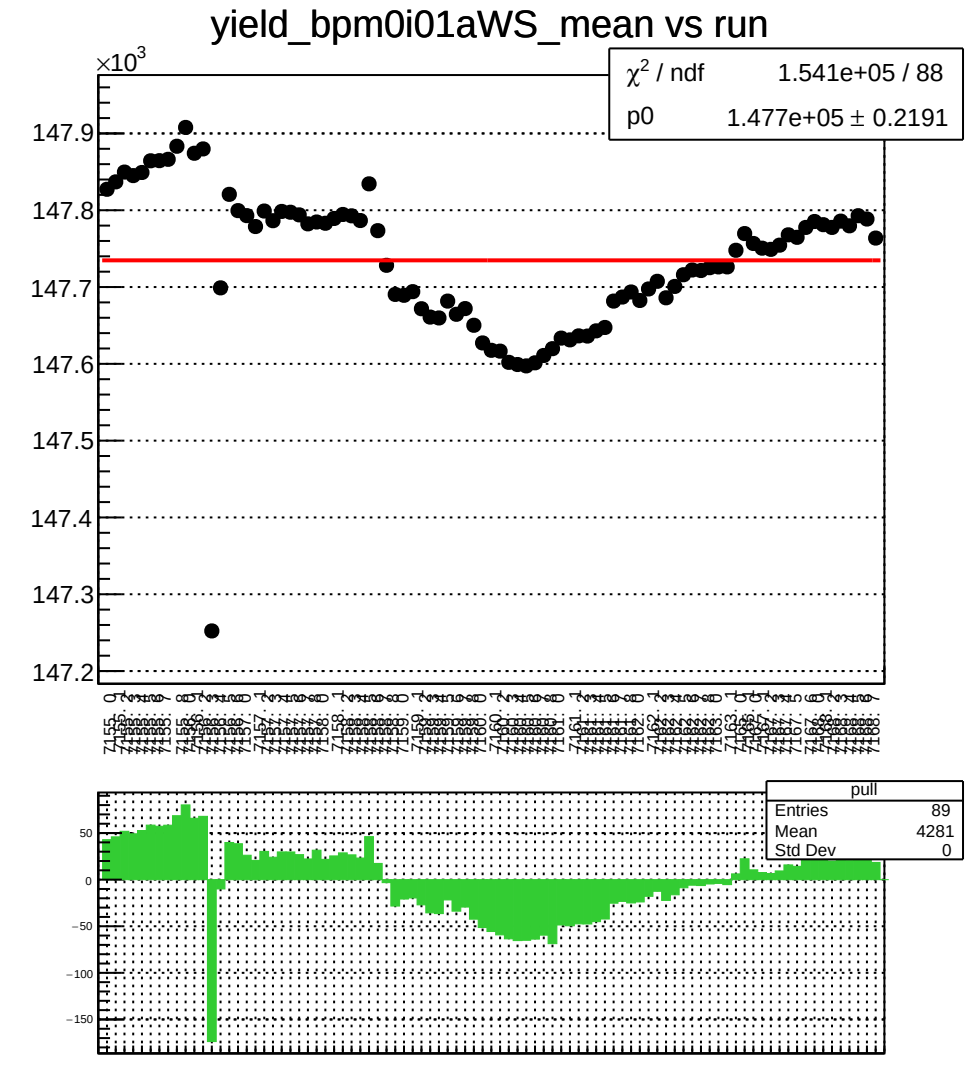

pull1D
Entries 89
Mean −2.897
Std Dev 2.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

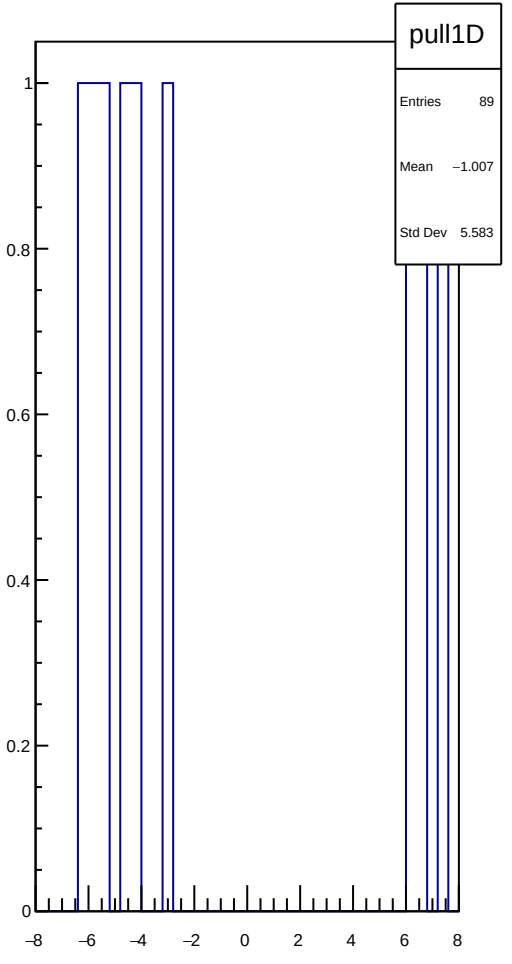

yield_bpm0i07WS_rms vs run
χ² / ndf 6105 / 88
p0 224.4 ± 0.1709
400
350
300
250
200

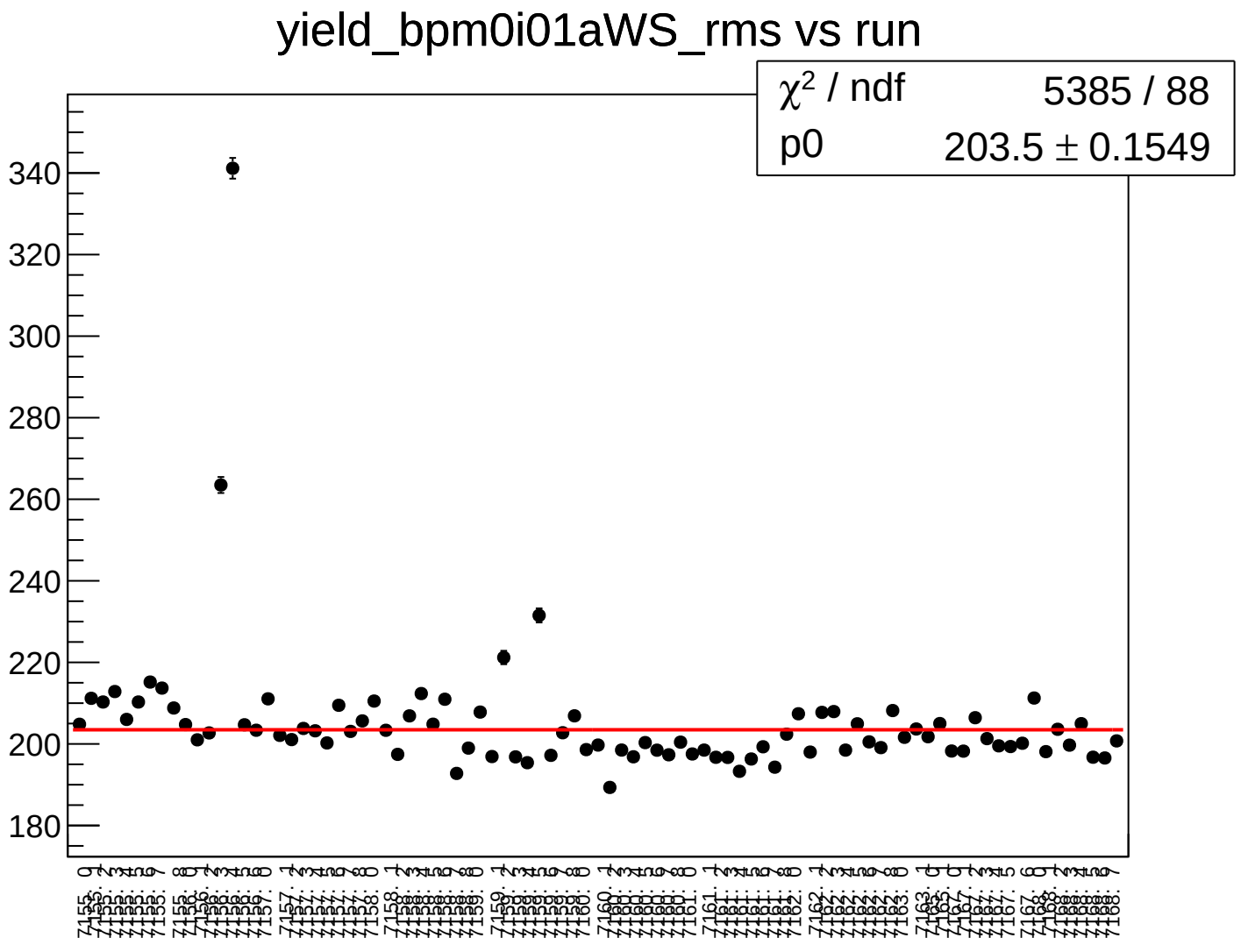

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.703e+05 / 88
p0 1.611e+05 ± 0.2451
161.4
161.3
161.2
161.1
161
160.9
160.8
160.7
160.6
pull
Entries 89
Mean −1610
Std Dev 0
100
50
0
−50
−100
−150

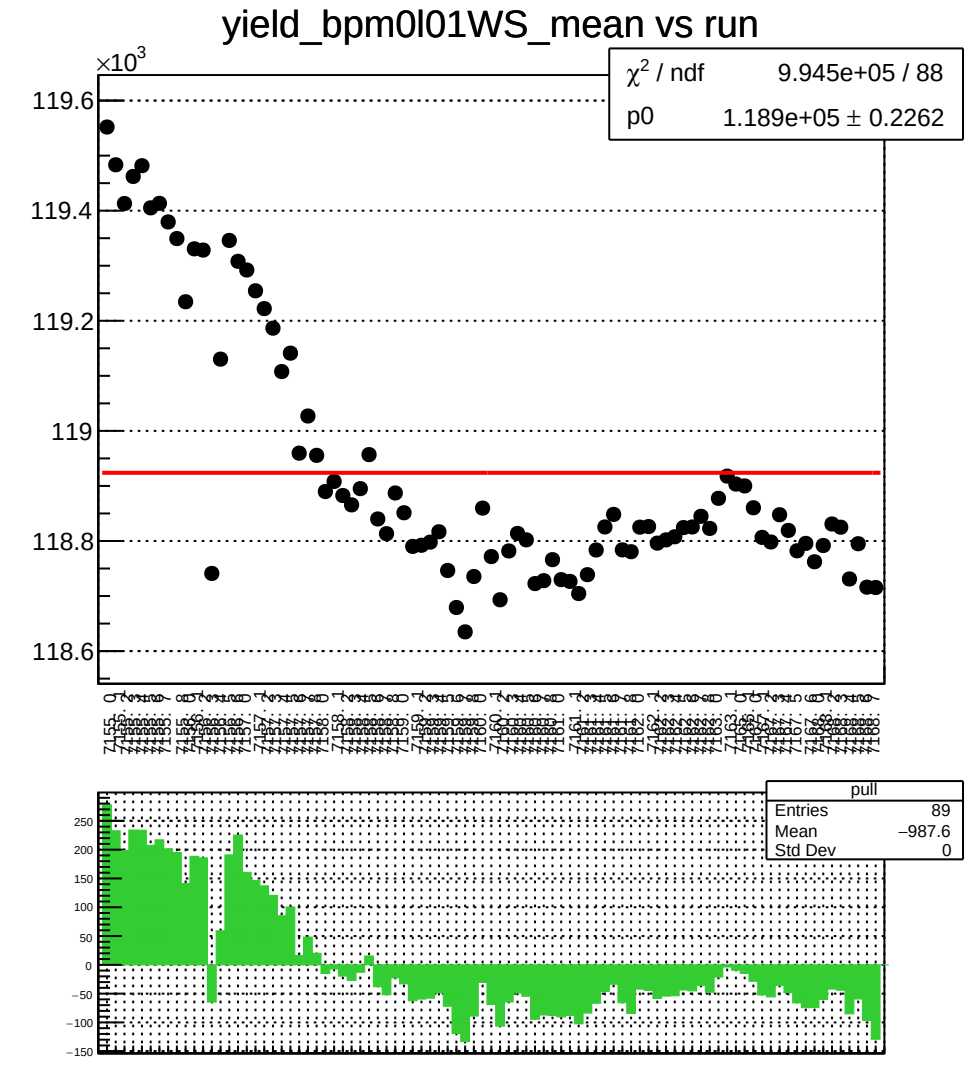

pull1D
Entries 89
Mean −1.864
Std Dev 4.743
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

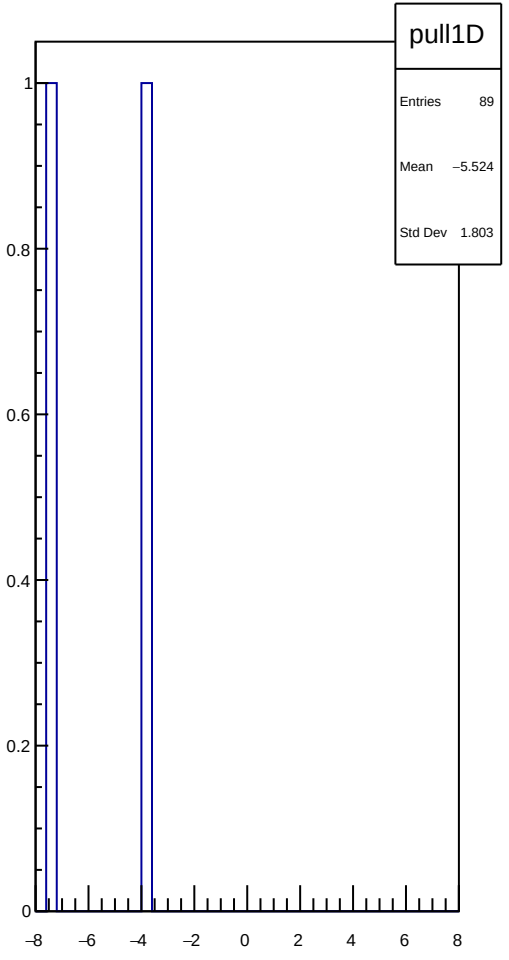

yield_bpm0i01WS_rms vs run
χ² / ndf 4630 / 88
p0 227.6 ± 0.1733
360
340
320
300
280
260
240
220
200

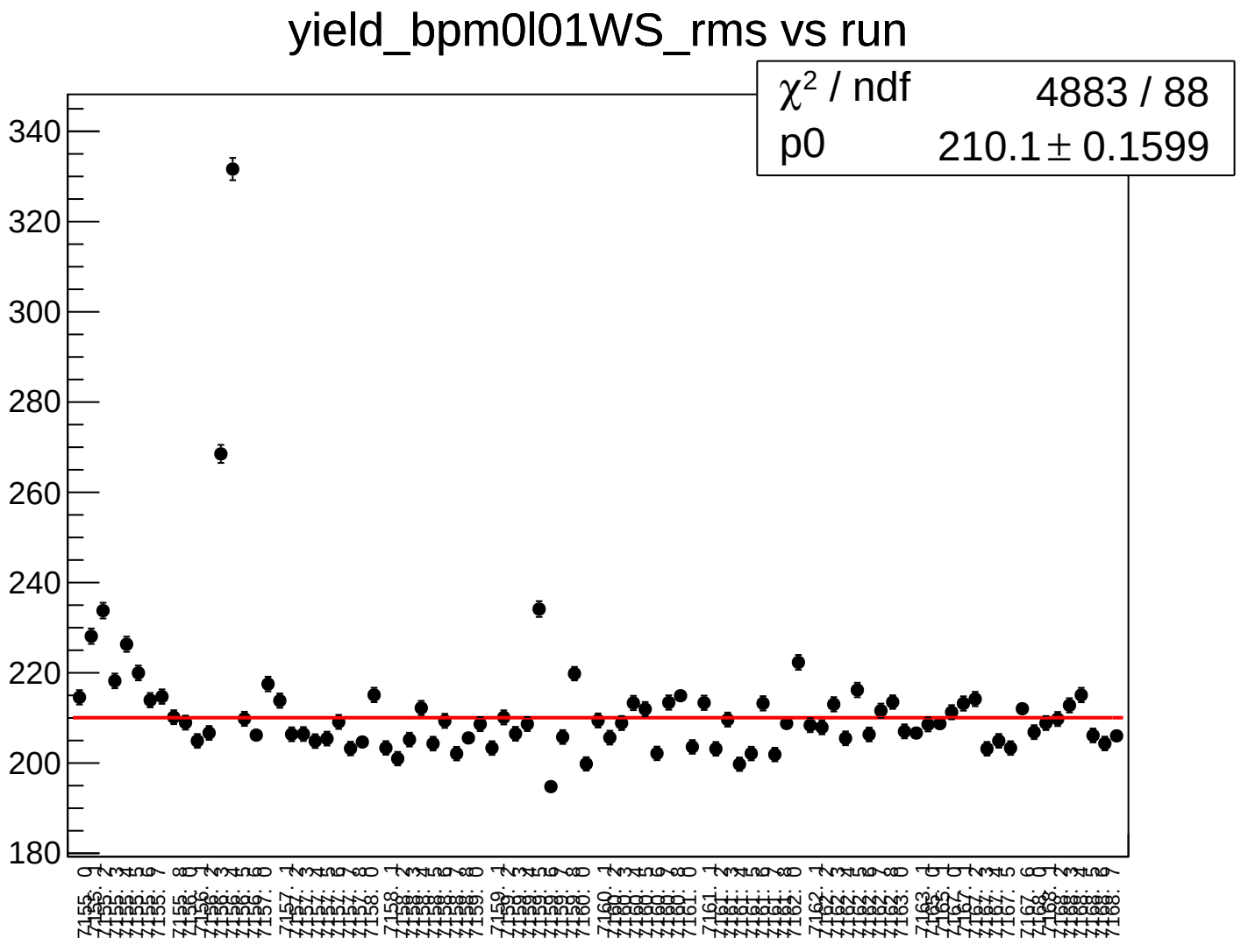

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.541e+05 / 88
p0 1.477e+05 ± 0.2191
147.9
147.8
147.7
147.6
147.5
147.4
147.3
147.2
pull
Entries 89
Mean 4281
Std Dev 0
50
0
−50
−100
−150

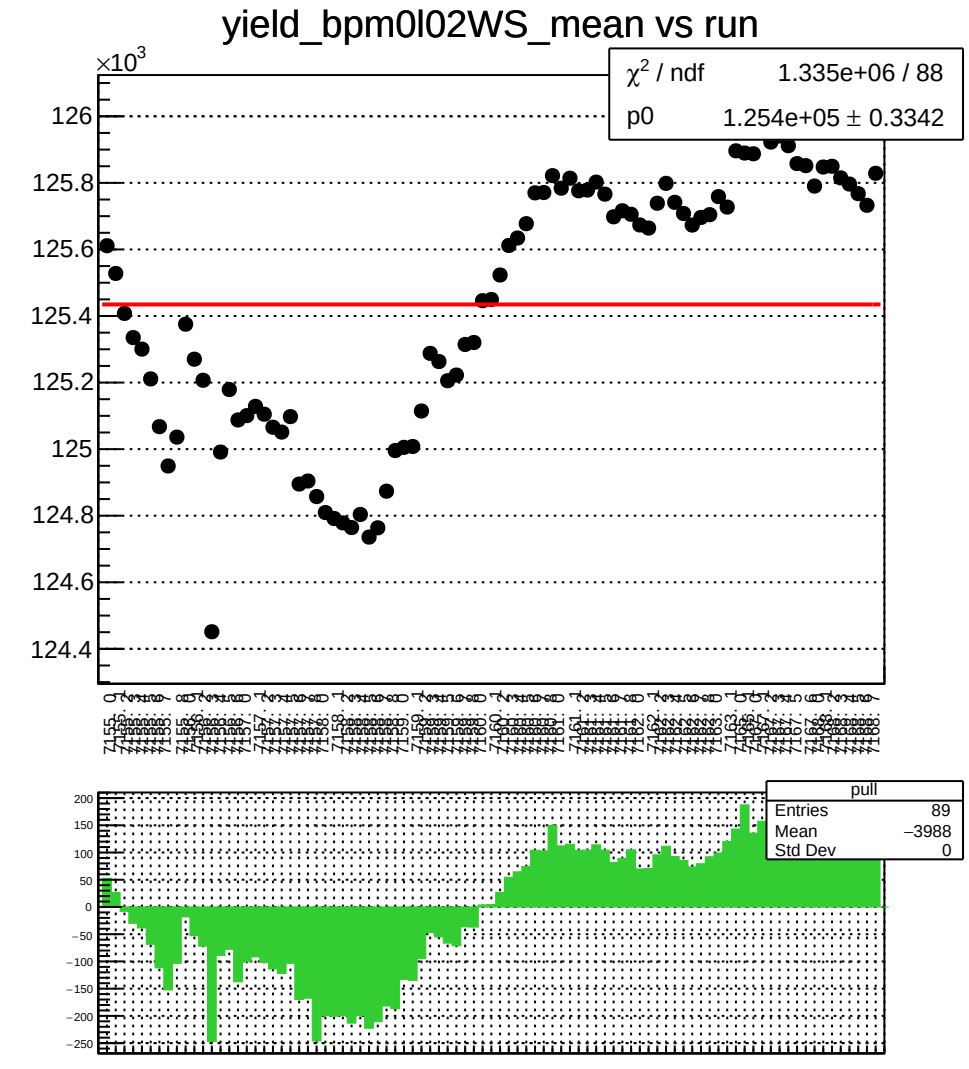

pull1D
Entries 89
Mean −1.007
Std Dev 5.583
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

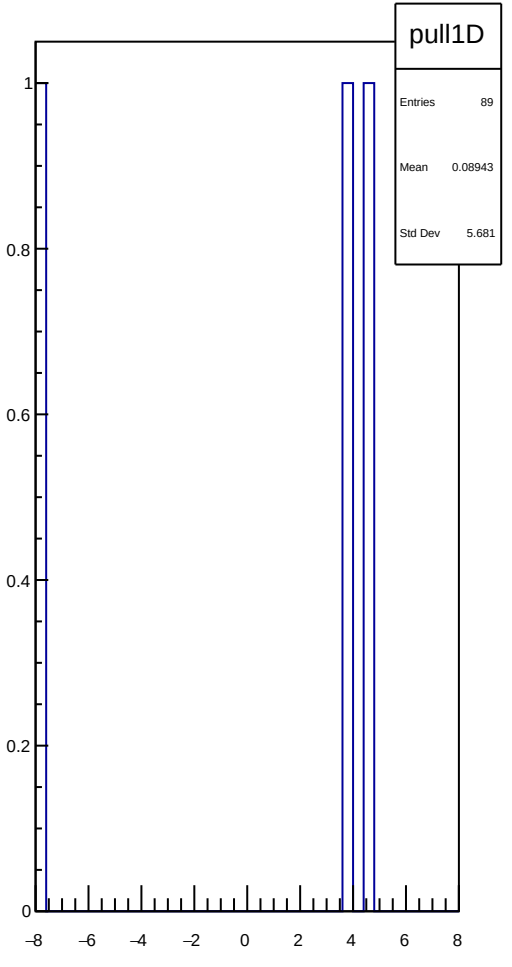

yield_bpm0i01aWS_rms vs run
χ² / ndf 5385 / 88
p0 203.5 ± 0.1549
340
320
300
280
260
240
220
200
180

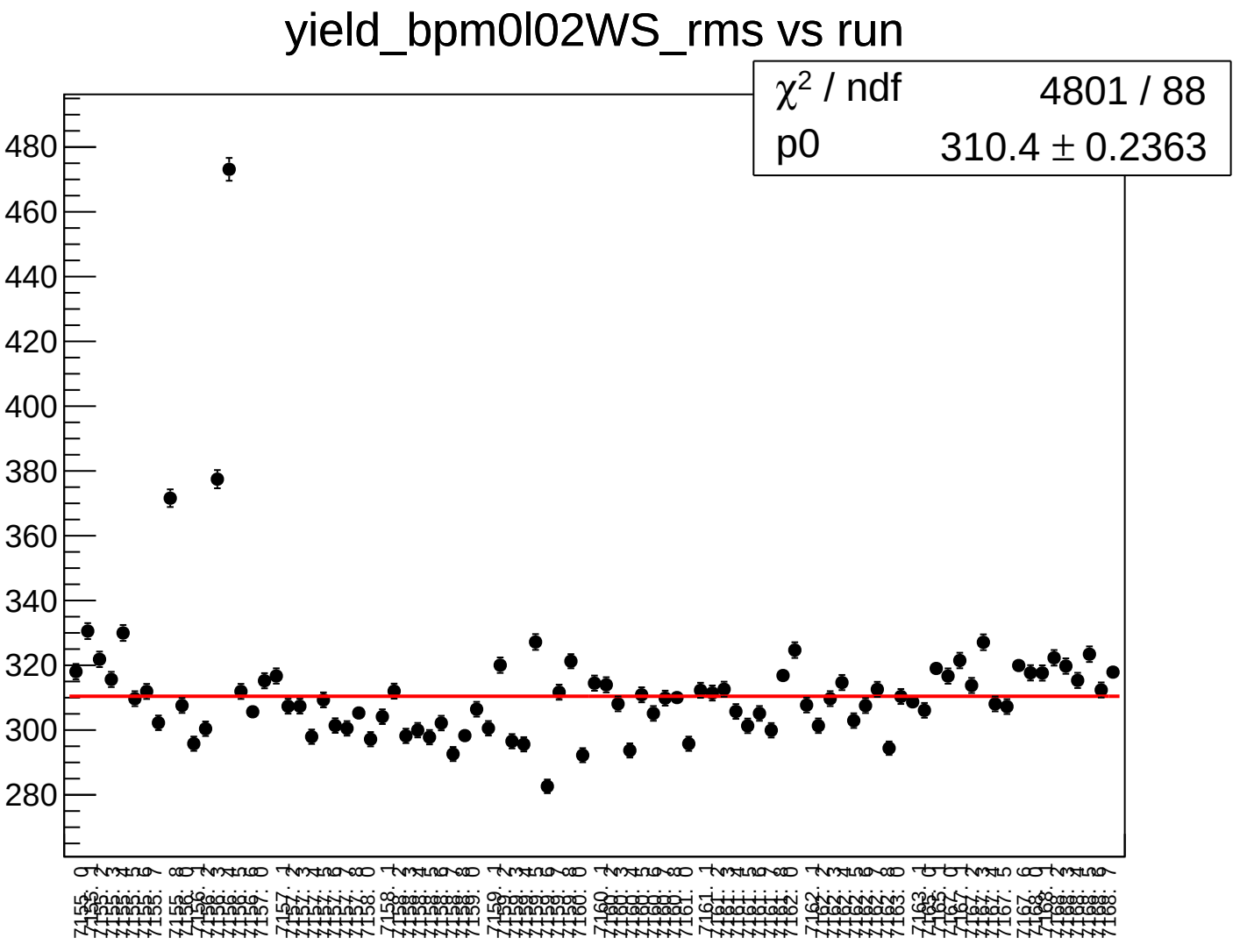

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 9.945e+05 / 88
p0 1.189e+05 ± 0.2262
119.6
119.4
119.2
119
118.8
118.6
pull
Entries 89
Mean −987.6
Std Dev 0
250
200
150
100
50
0
−50
−100
−150

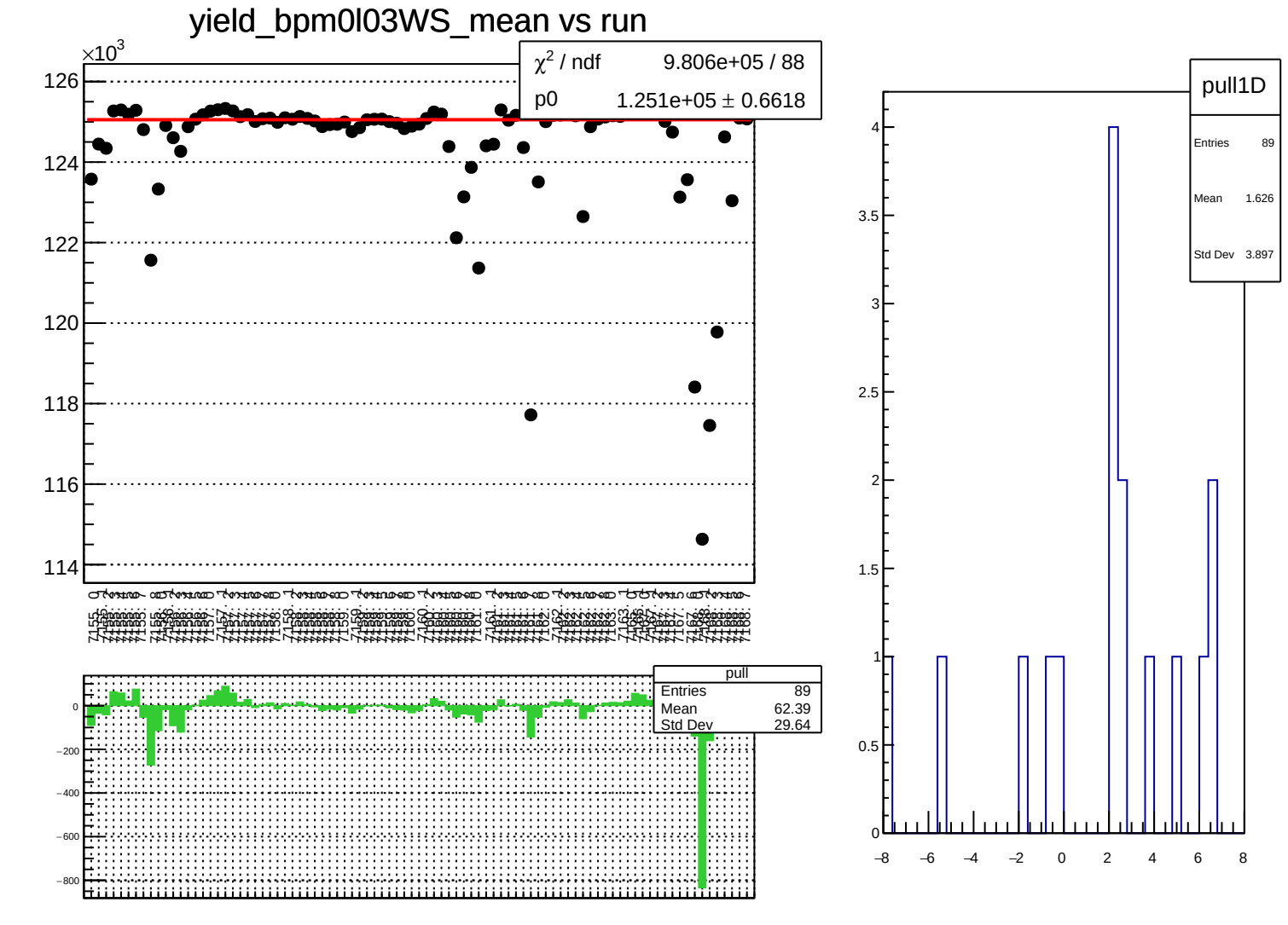

pull1D
Entries 89
Mean −5.524
Std Dev 1.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

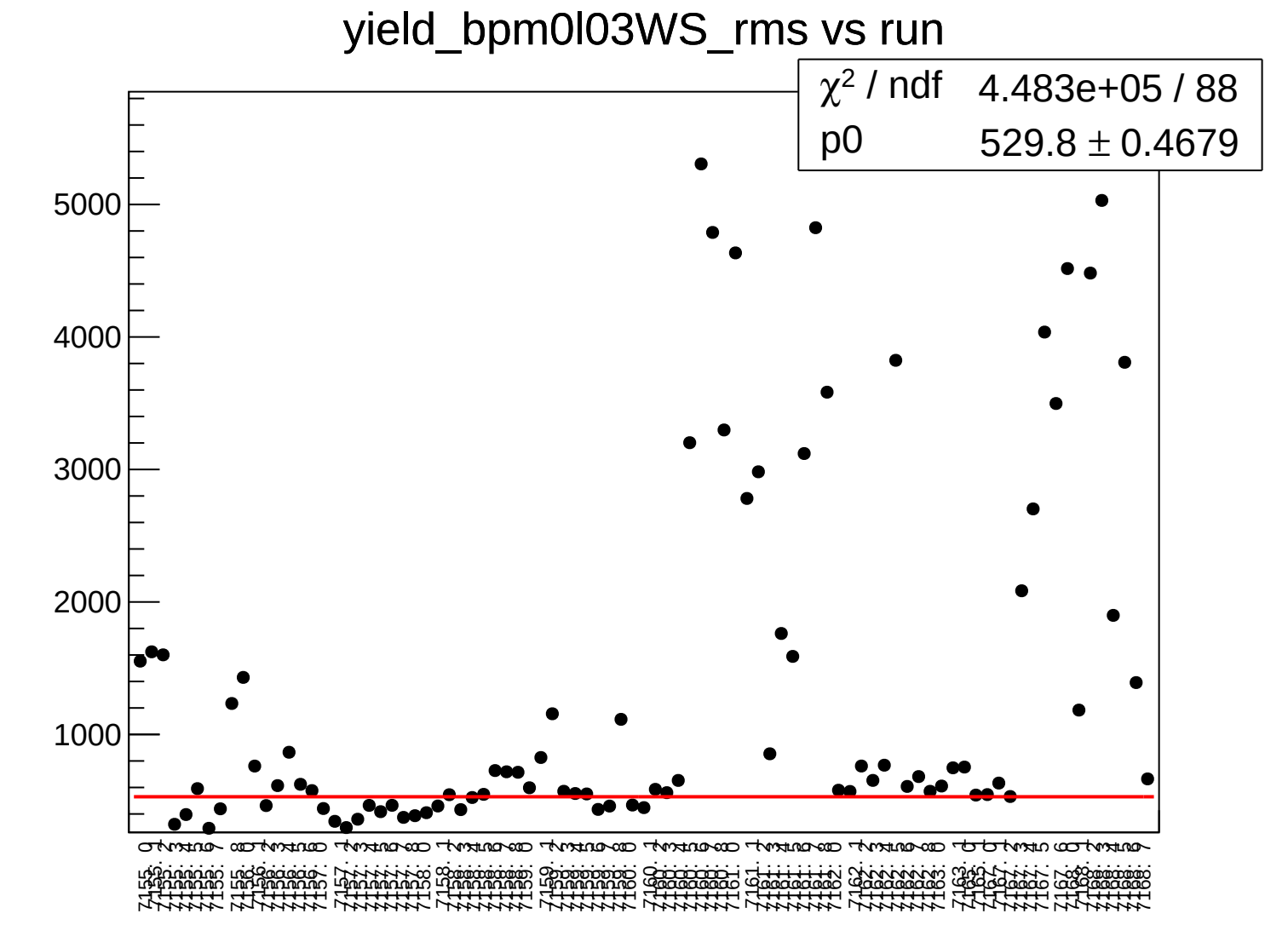

yield_bpm0l01WS_rms vs run
χ² / ndf 4883 / 88
p0 210.1 ± 0.1599
340
320
300
280
260
240
220
200
180

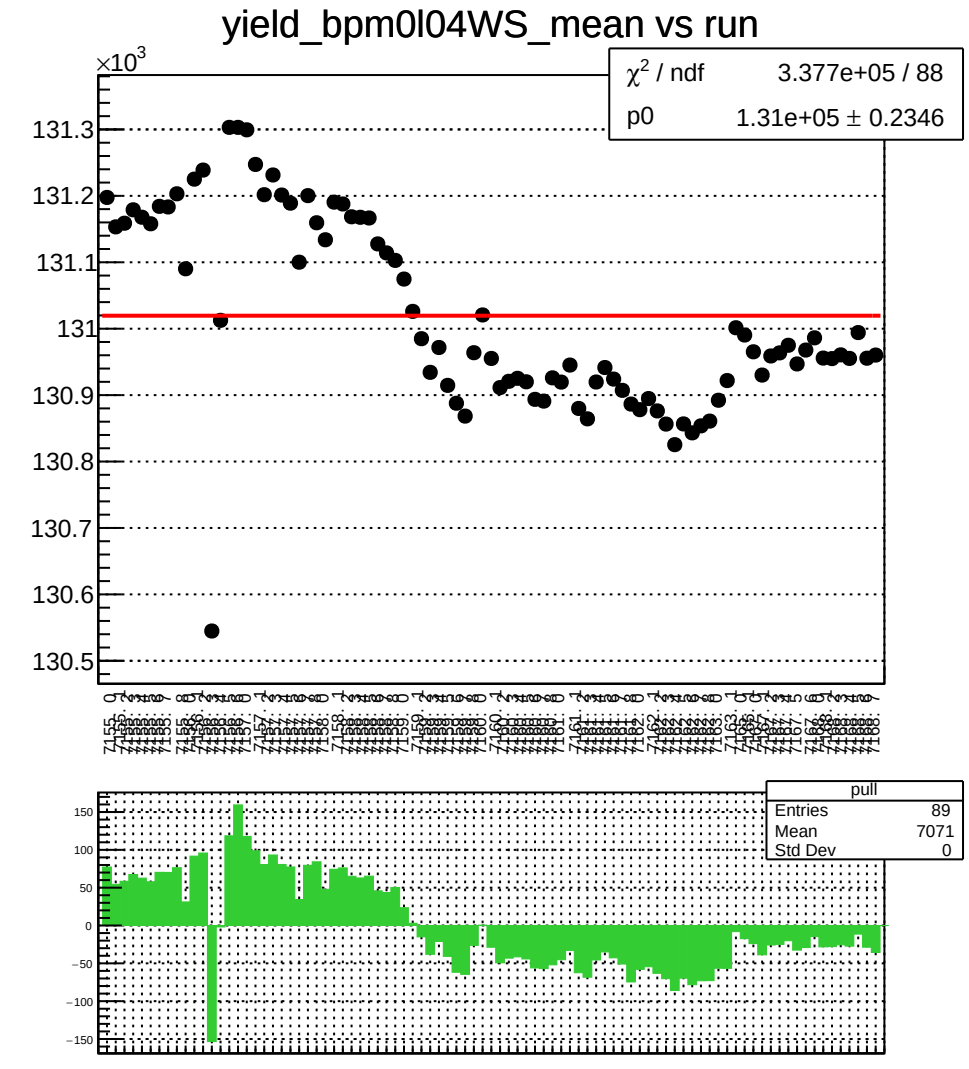

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.335e+06 / 88
p0 1.254e+05 ± 0.3342
126
125.8
125.6
125.4
125.2
125
124.8
124.6
124.4
pull
Entries 89
Mean −3988
Std Dev 0
200
150
100
50
0
−50
−100
−150
−200
−250

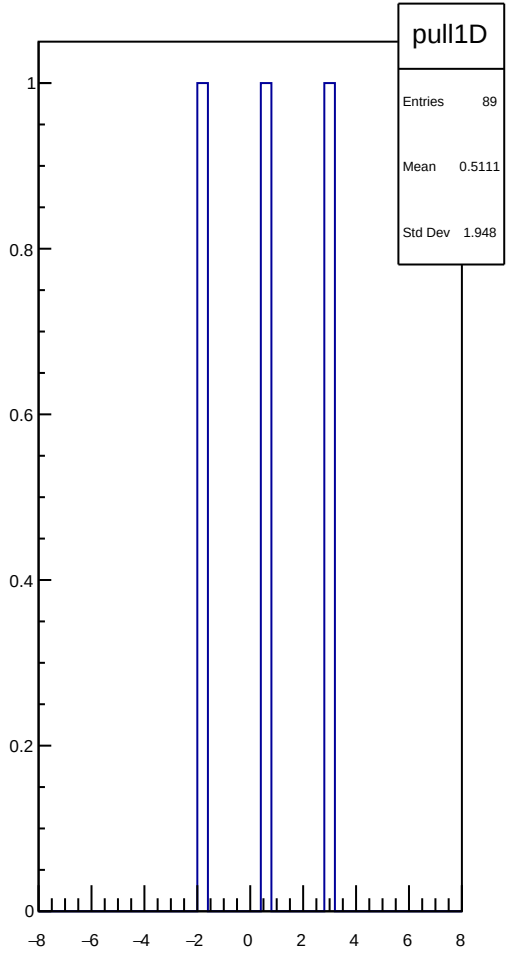

pull1D
Entries 89
Mean 0.08943
Std Dev 5.681
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

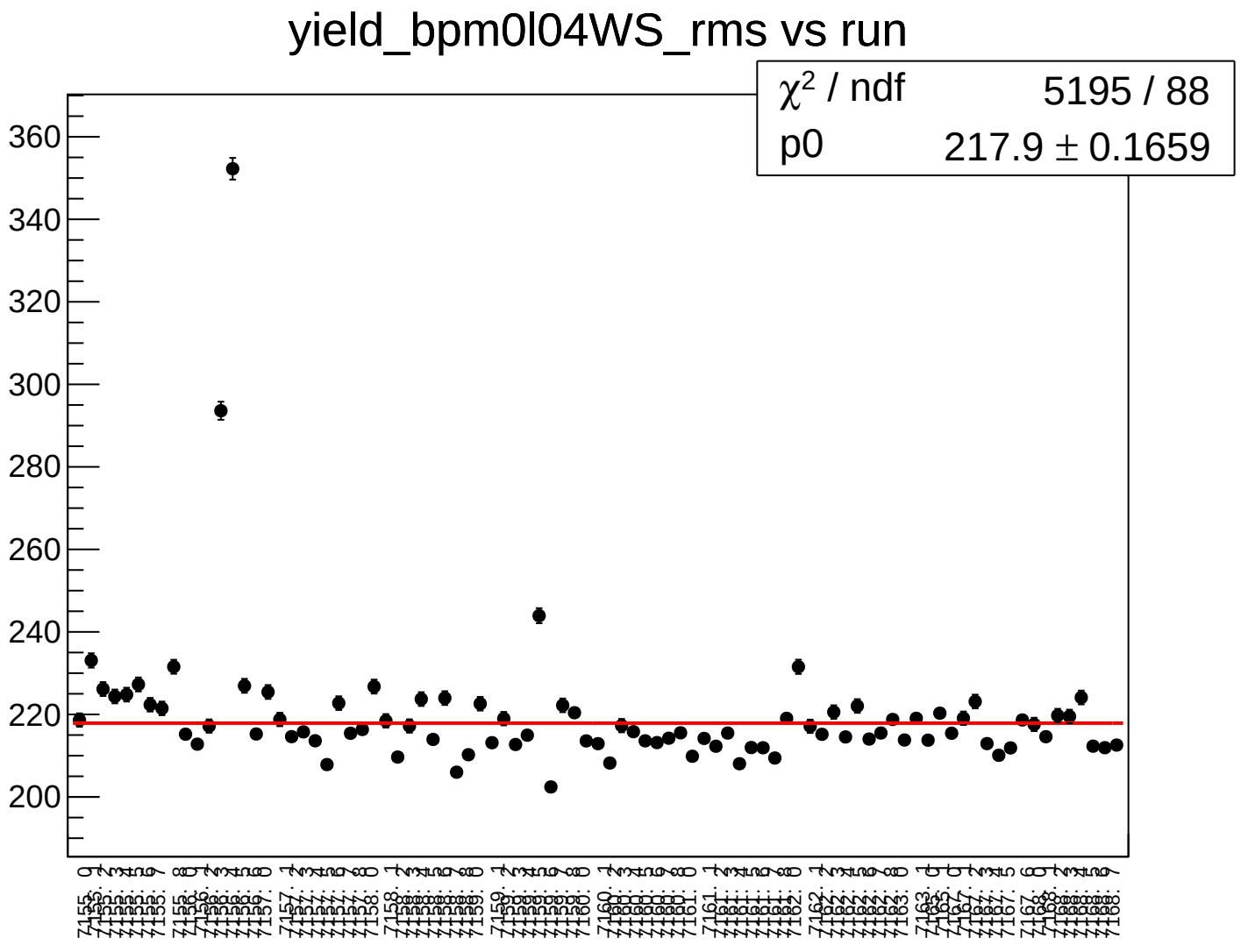

yield_bpm0l02WS_rms vs run
χ² / ndf 4801 / 88
p0 310.4 ± 0.2363
480
460
440
420
400
380
360
340
320
300
280

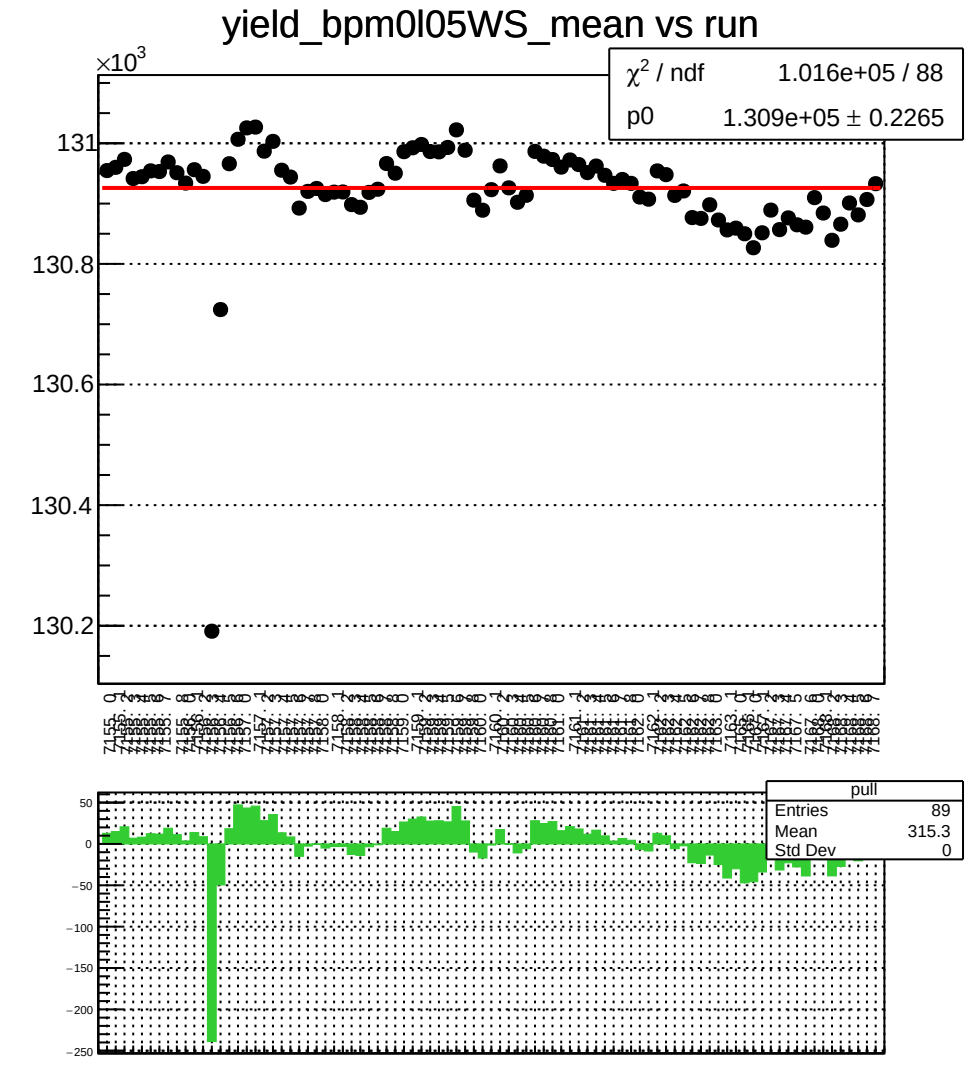

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 9.806e+05 / 88
p0 1.251e+05 ± 0.6618
126
124
122
120
118
116
114
pull
Entries 89
Mean 62.39
Std Dev 29.64
0
−200
−400
−600
−800
pull1D
Entries 89
Mean 1.626
Std Dev 3.897
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

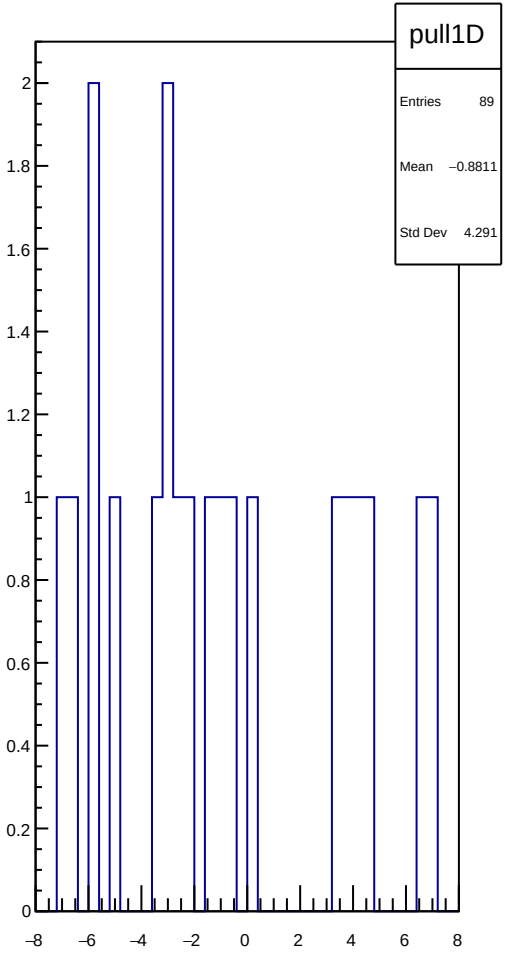

yield_bpm0l03WS_rms vs run
χ² / ndf 4.483e+05 / 88
p0 529.8 ± 0.4679
5000
4000
3000
2000
1000

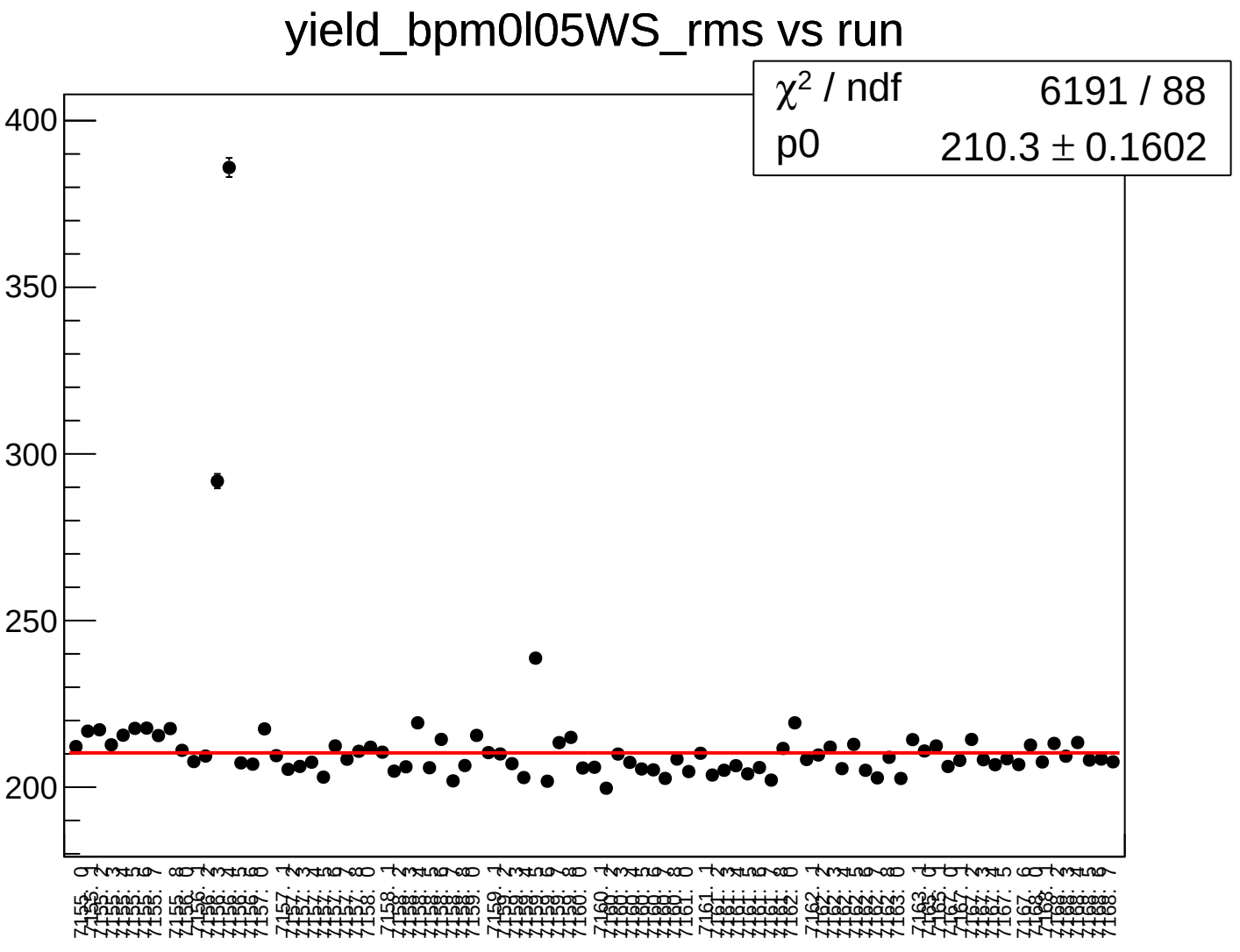

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.377e+05 / 88
p0 1.31e+05 ± 0.2346
131.3
131.2
131.1
131
130.9
130.8
130.7
130.6
130.5
pull
Entries 89
Mean 7071
Std Dev 0
150
100
50
0
−50
−100
−150

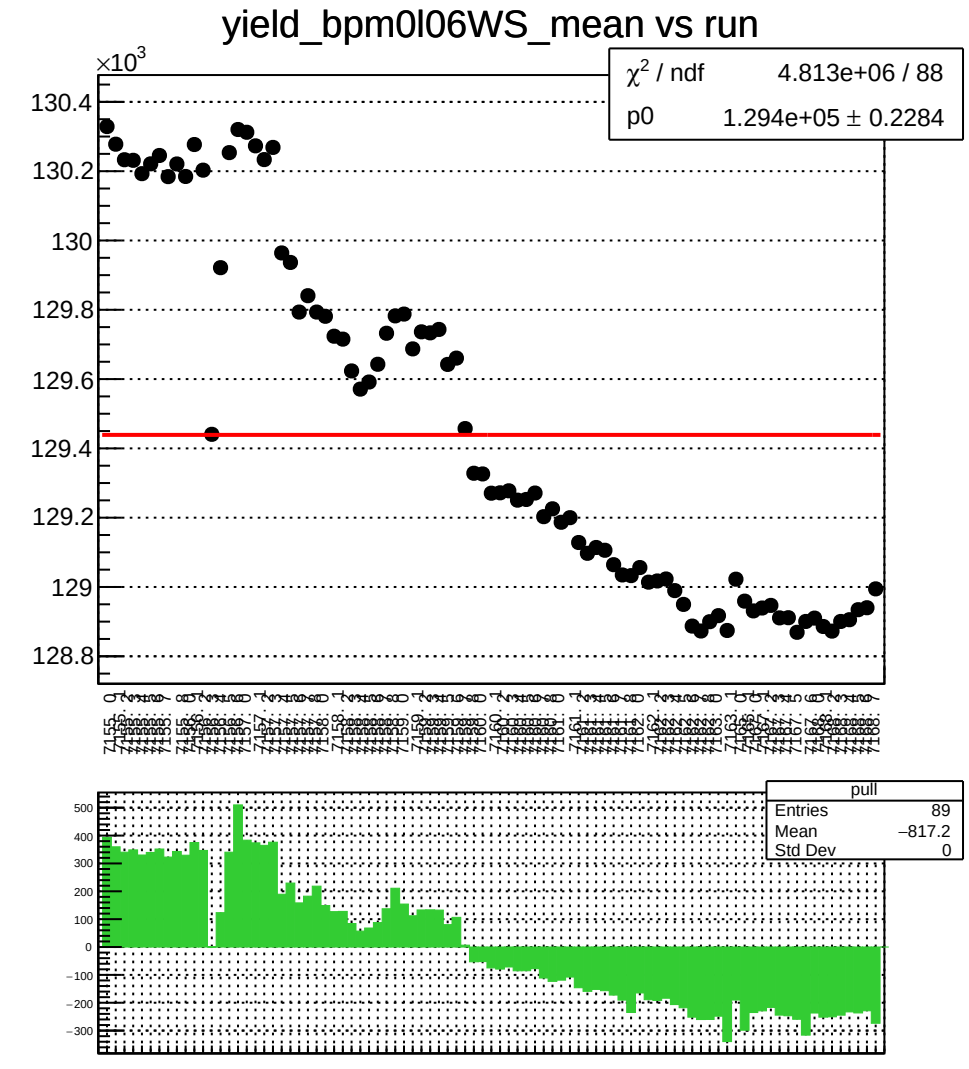

pull1D
Entries 89
Mean 0.5111
Std Dev 1.948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

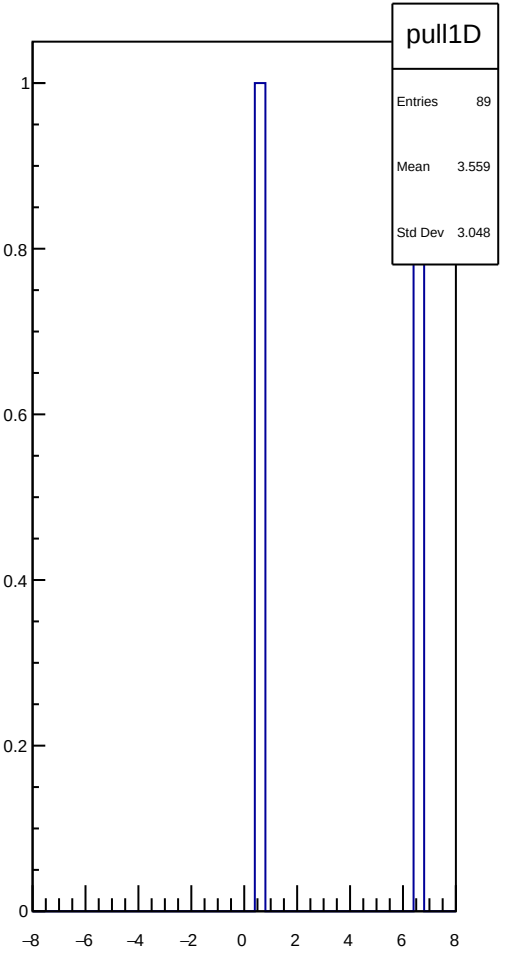

yield_bpm0l04WS_rms vs run
χ² / ndf 5195 / 88
p0 217.9 ± 0.1659
360
340
320
300
280
260
240
220
200

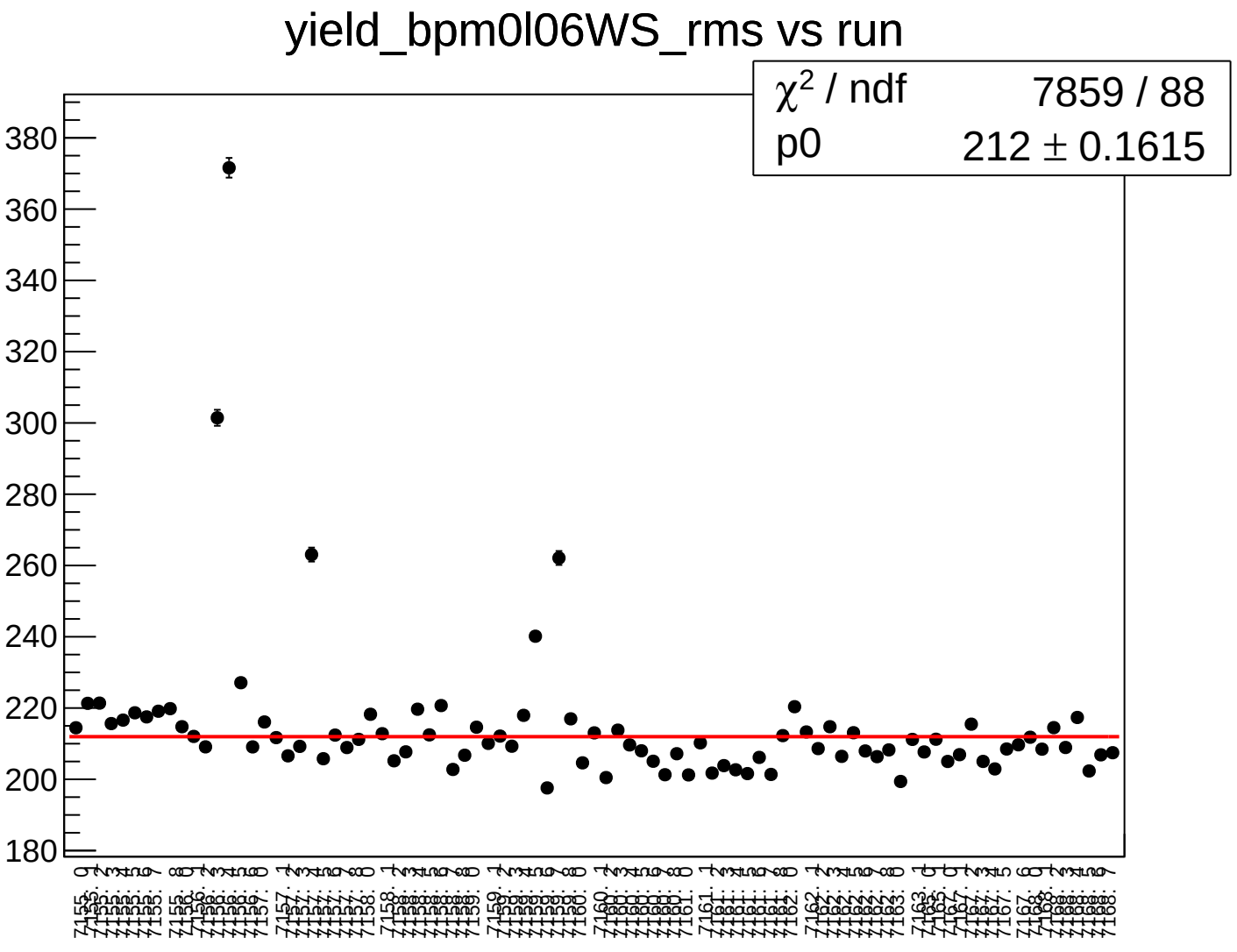

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.016e+05 / 88
p0 1.309e+05 ± 0.2265
131
130.8
130.6
130.4
130.2
pull
Entries 89
Mean 315.3
Std Dev 0
50
0
−50
−100
−150
−200
−250

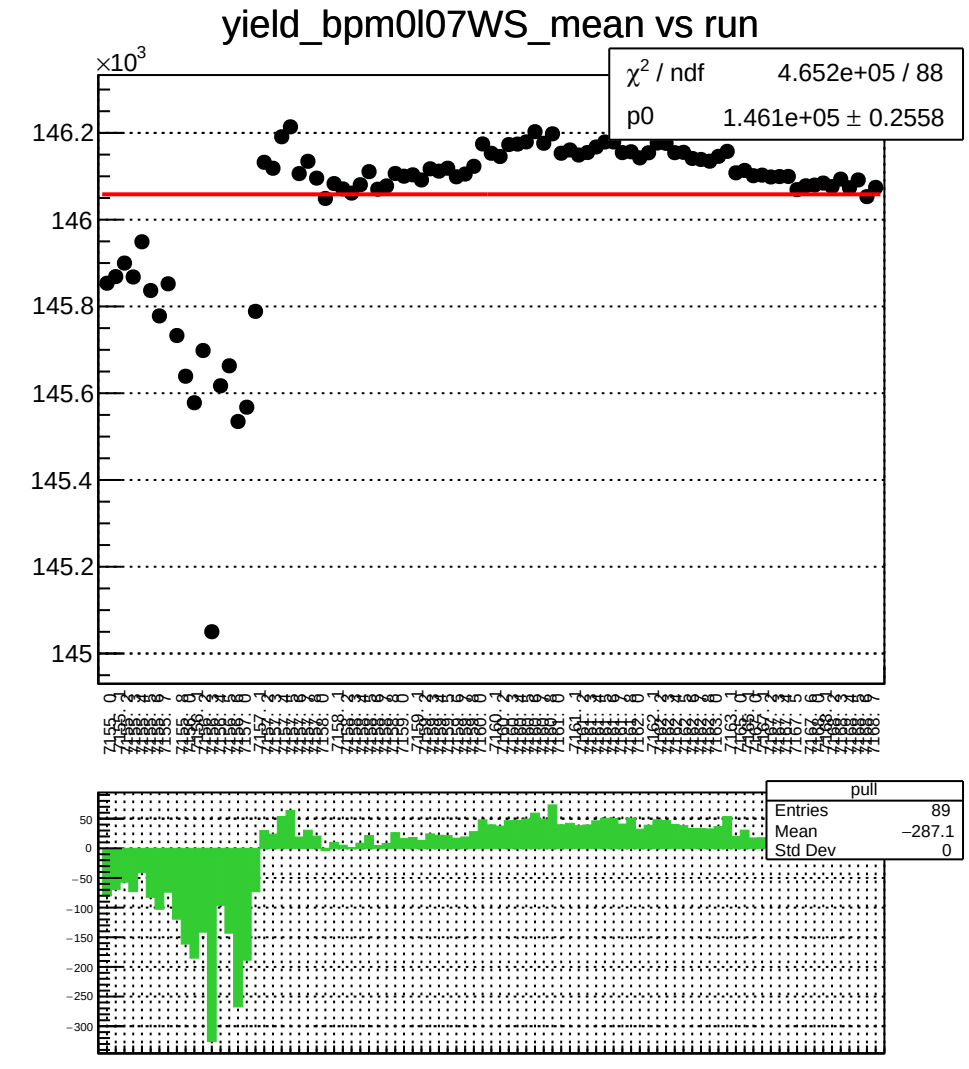

pull1D
Entries 89
Mean −0.8811
Std Dev 4.291
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

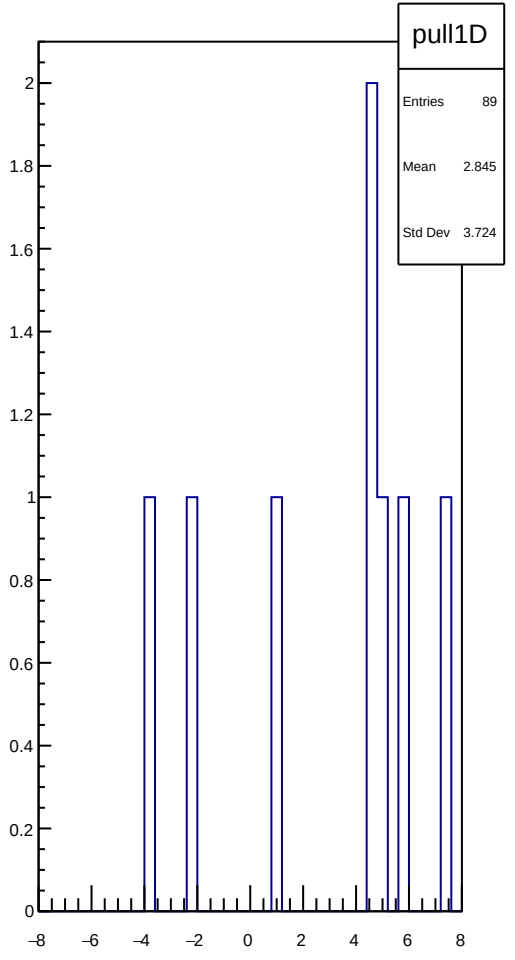

yield_bpm0l05WS_rms vs run
χ² / ndf 6191 / 88
p0 210.3 ± 0.1602
400
350
300
250
200

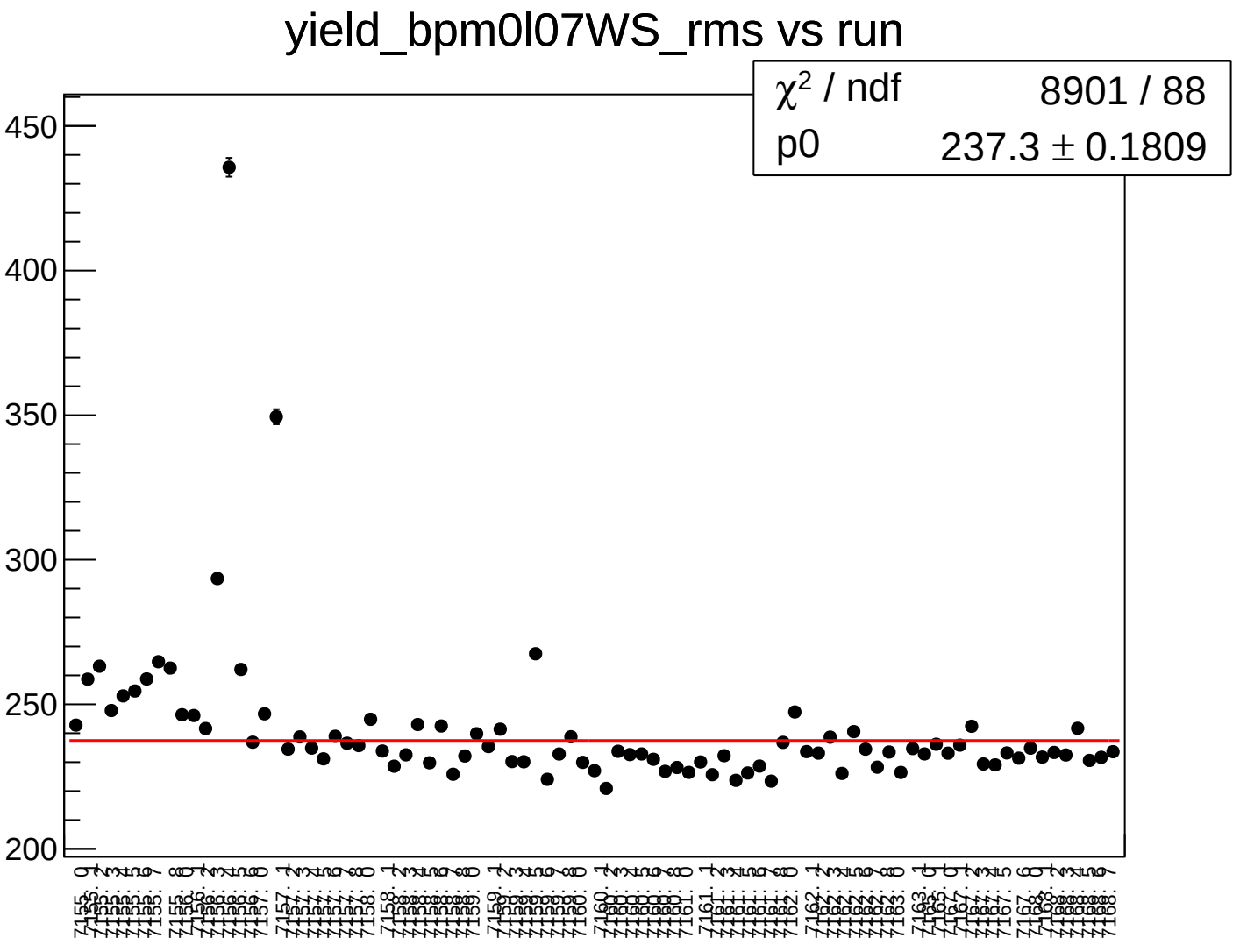

yield_bpm0l06WS_mean vs run
×10^3
130.4
130.2
130
129.8
129.6
129.4
129.2
129
128.8
χ² / ndf 4.813e+06 / 88
p0 1.294e+05 ± 0.2284
pull
Entries 89
Mean −817.2
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

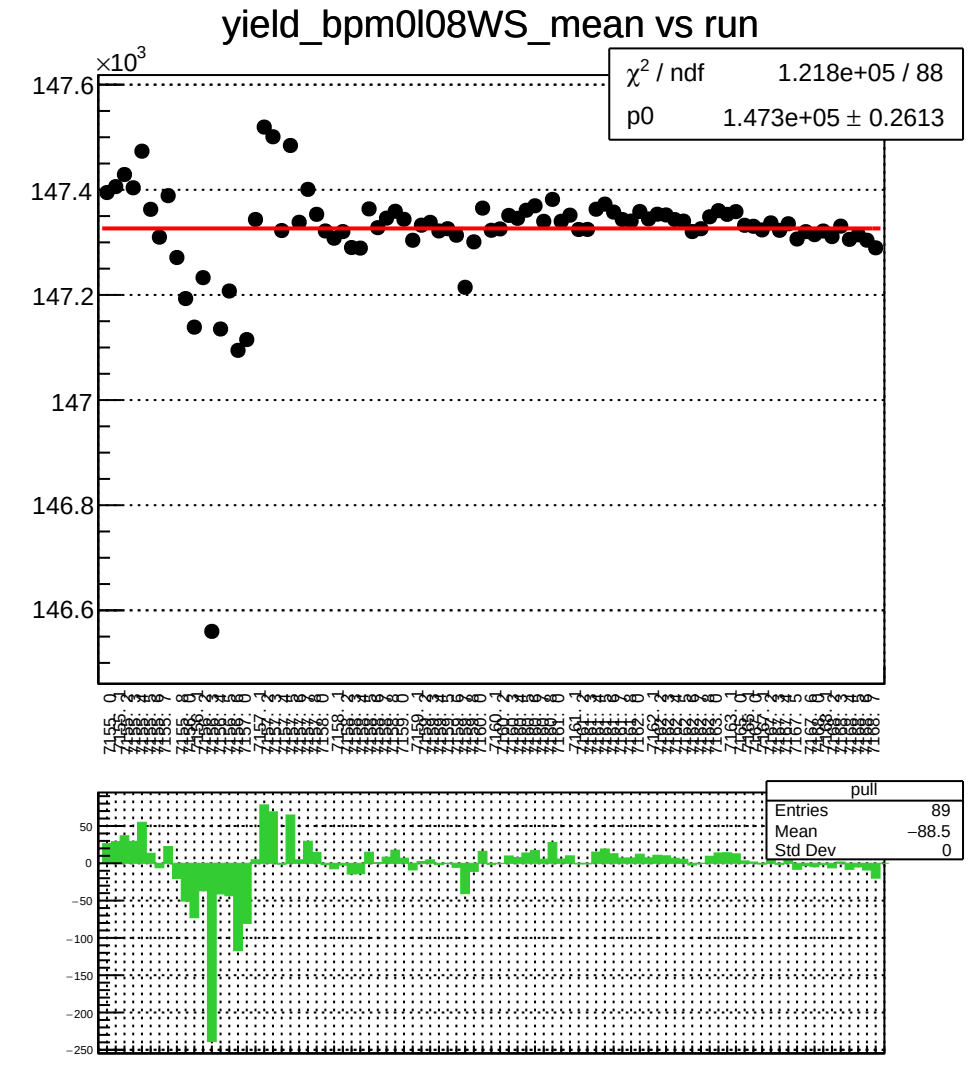

pull1D
Entries 89
Mean 3.559
Std Dev 3.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

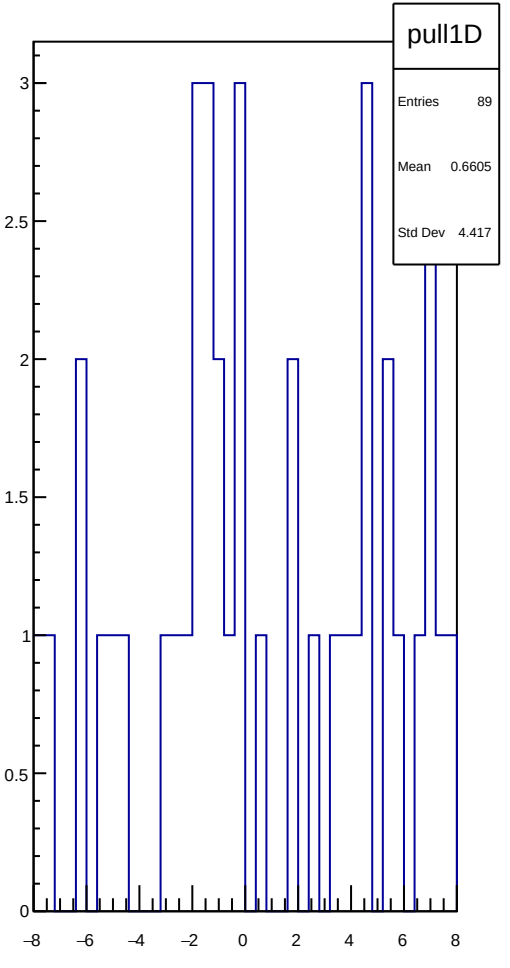

yield_bpm0l06WS_rms vs run
χ² / ndf 7859 / 88
p0 212 ± 0.1615
380
360
340
320
300
280
260
240
220
200
180

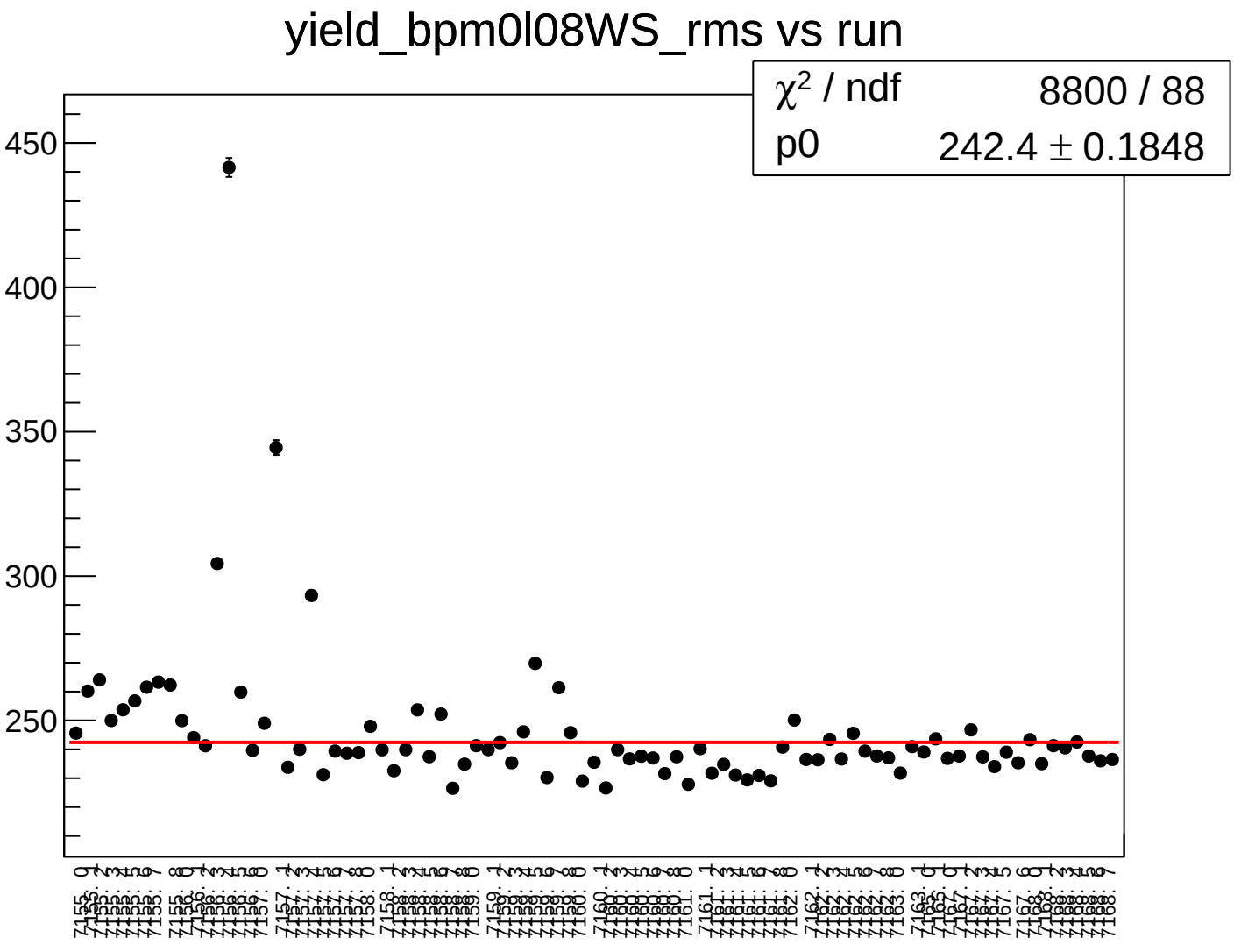

yield_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 4.652e+05 / 88
p0 1.461e+05 ± 0.2558
146.2
146
145.8
145.6
145.4
145.2
145
pull
Entries 89
Mean −287.1
Std Dev 0
50
0
−50
−100
−150
−200
−250
−300

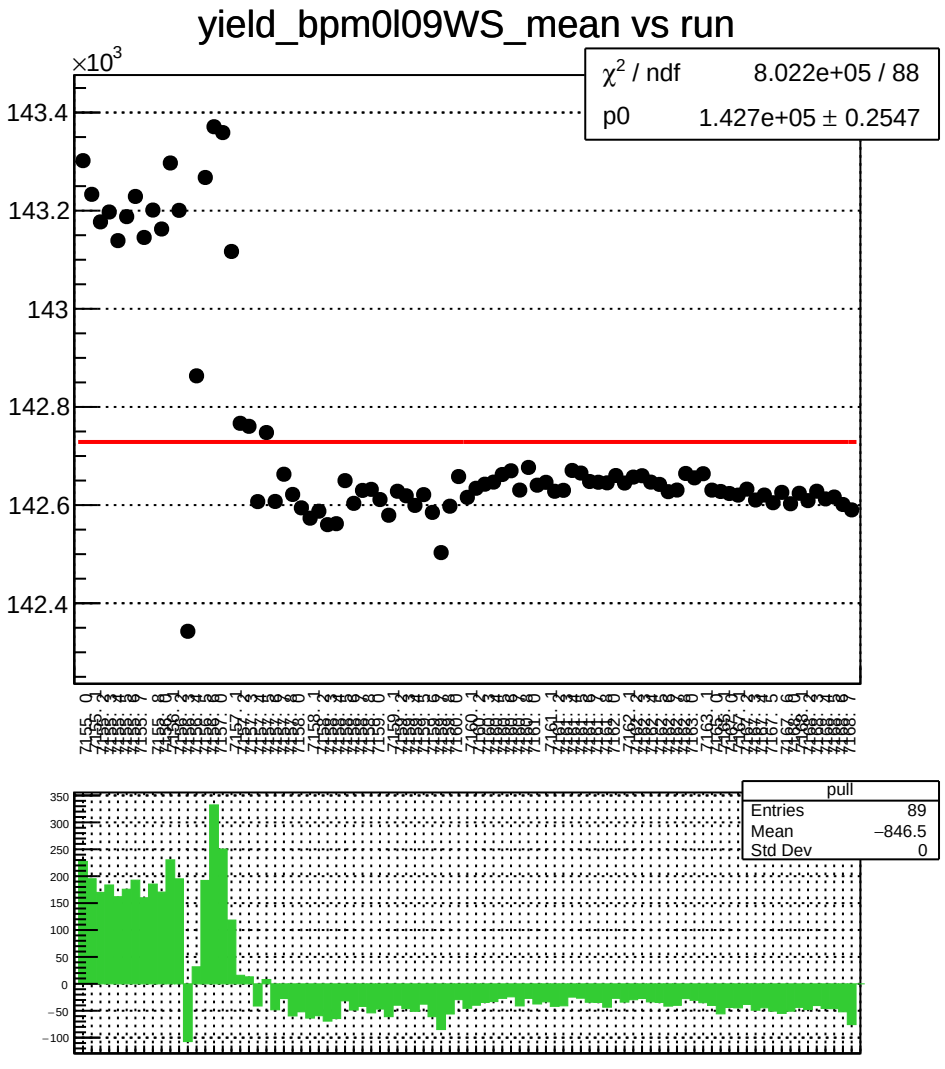

pull1D
Entries 89
Mean 2.845
Std Dev 3.724
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

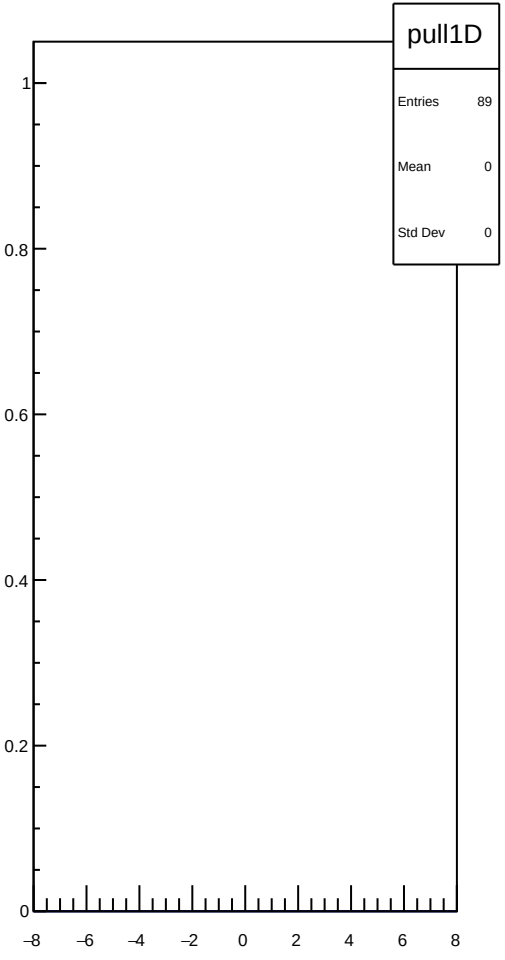

yield_bpm0l07WS_rms vs run
χ² / ndf 8901 / 88
p0 237.3 ± 0.1809
450
400
350
300
250
200

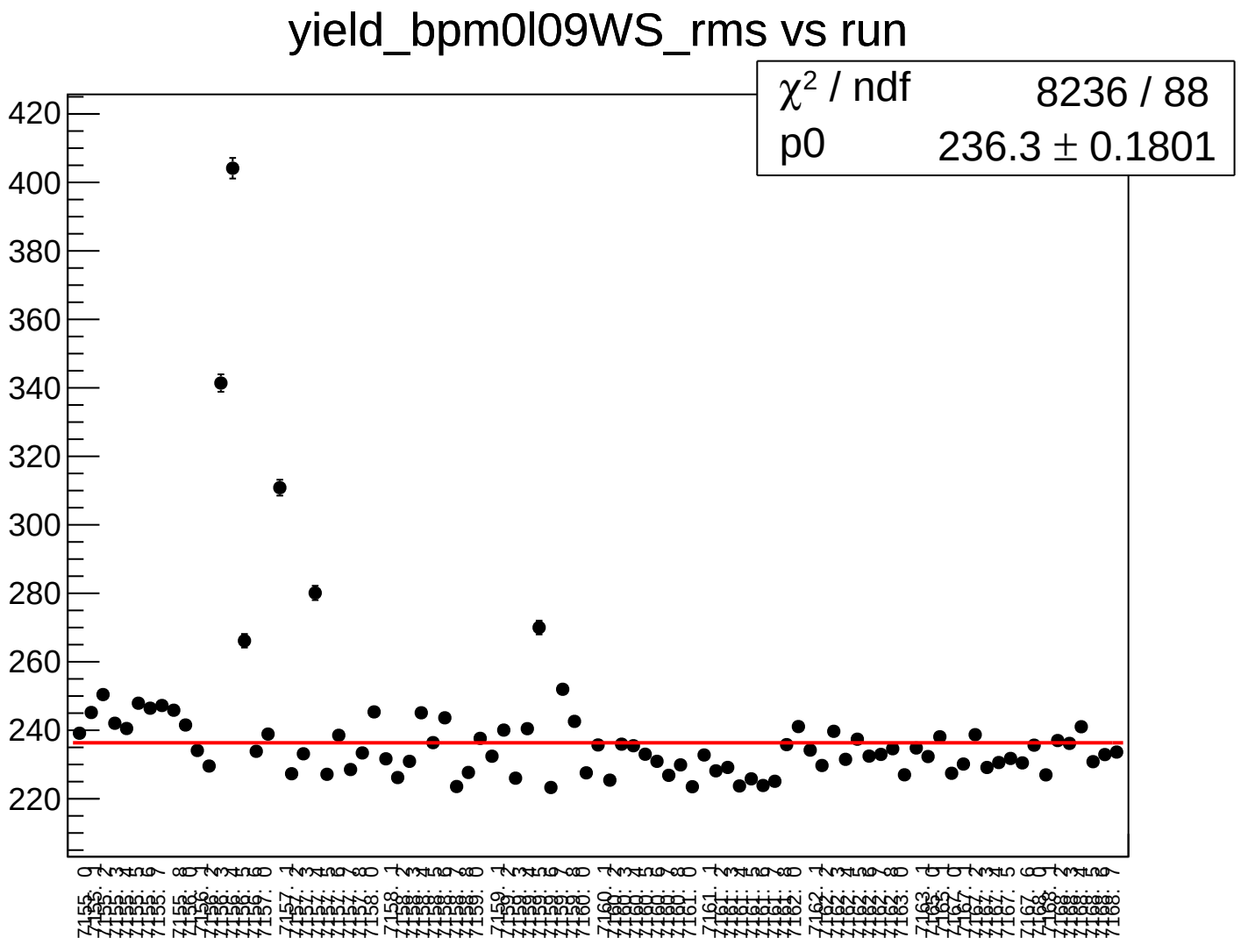

yield_bpm0l08WS_mean vs run
×10^3
147.6
147.4
147.2
147
146.8
146.6
χ² / ndf 1.218e+05 / 88
p0 1.473e+05 ± 0.2613
pull
Entries 89
Mean −88.5
Std Dev 0
50
0
−50
−100
−150
−200
−250

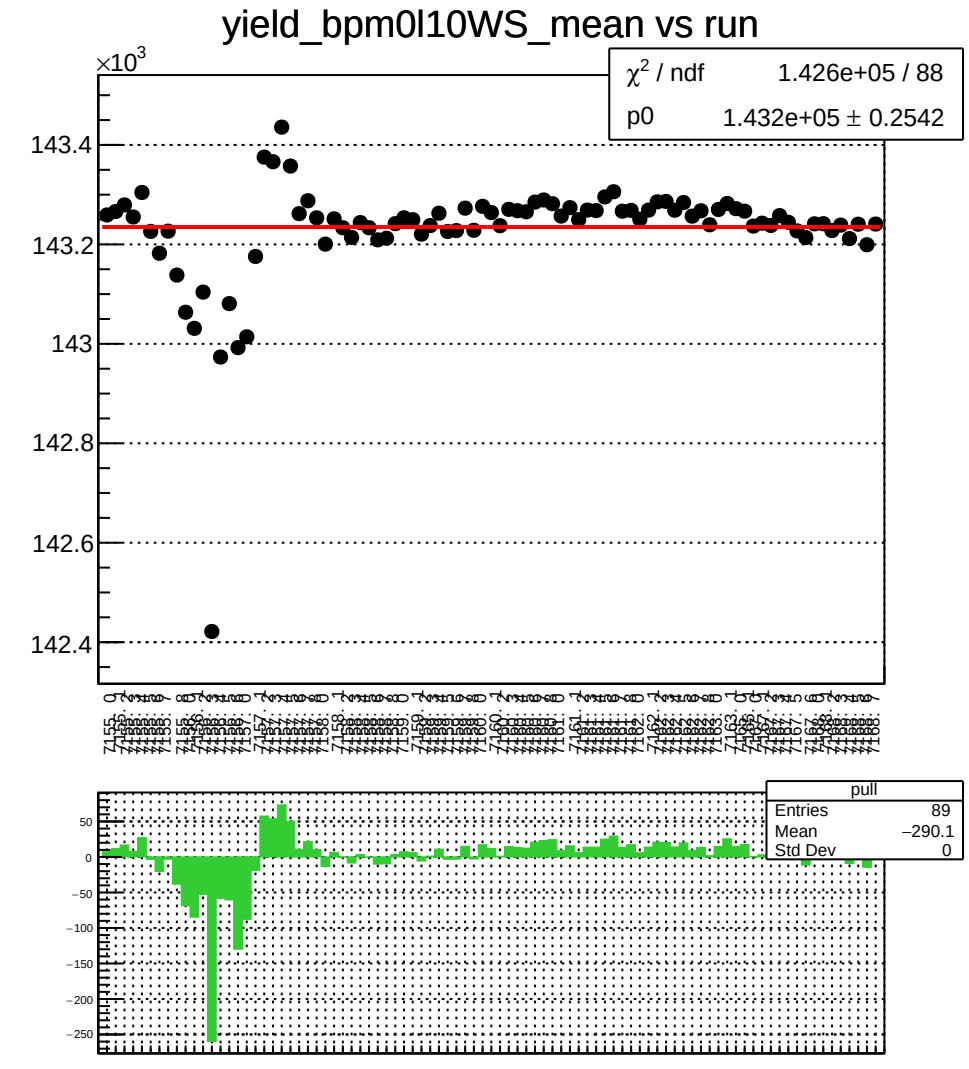

pull1D
Entries 89
Mean 0.6605
Std Dev 4.417
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

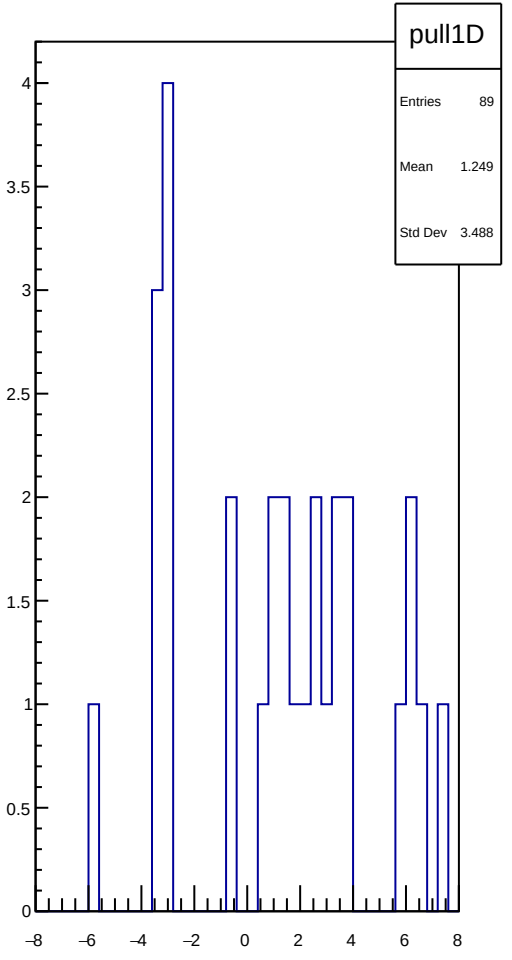

yield_bpm0l08WS_rms vs run
χ² / ndf 8800 / 88
p0 242.4 ± 0.1848
450
400
350
300
250

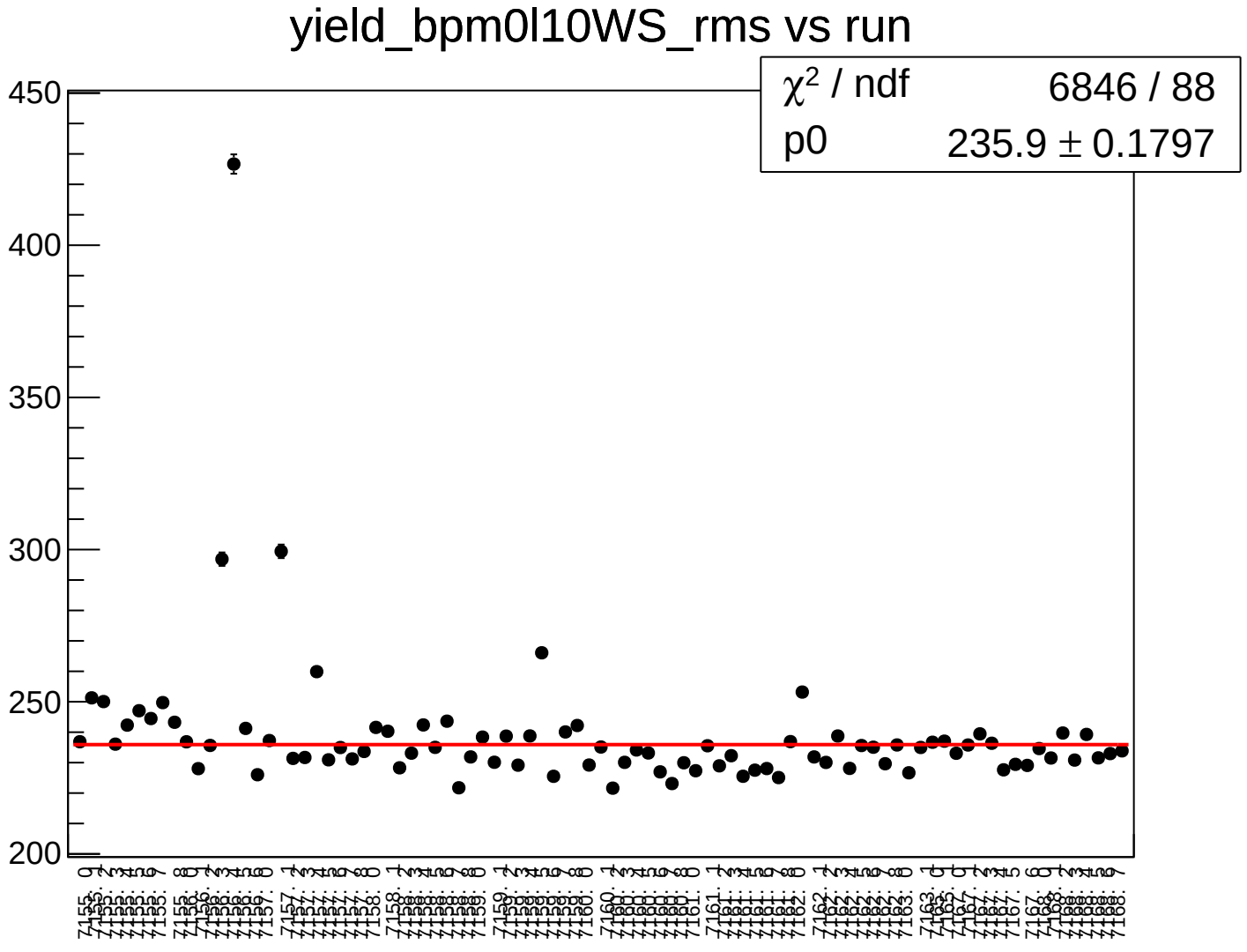

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.022e+05 / 88
p0 1.427e+05 ± 0.2547
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 89
Mean −846.5
Std Dev 0
350
300
250
200
150
100
50
0
−50
−100

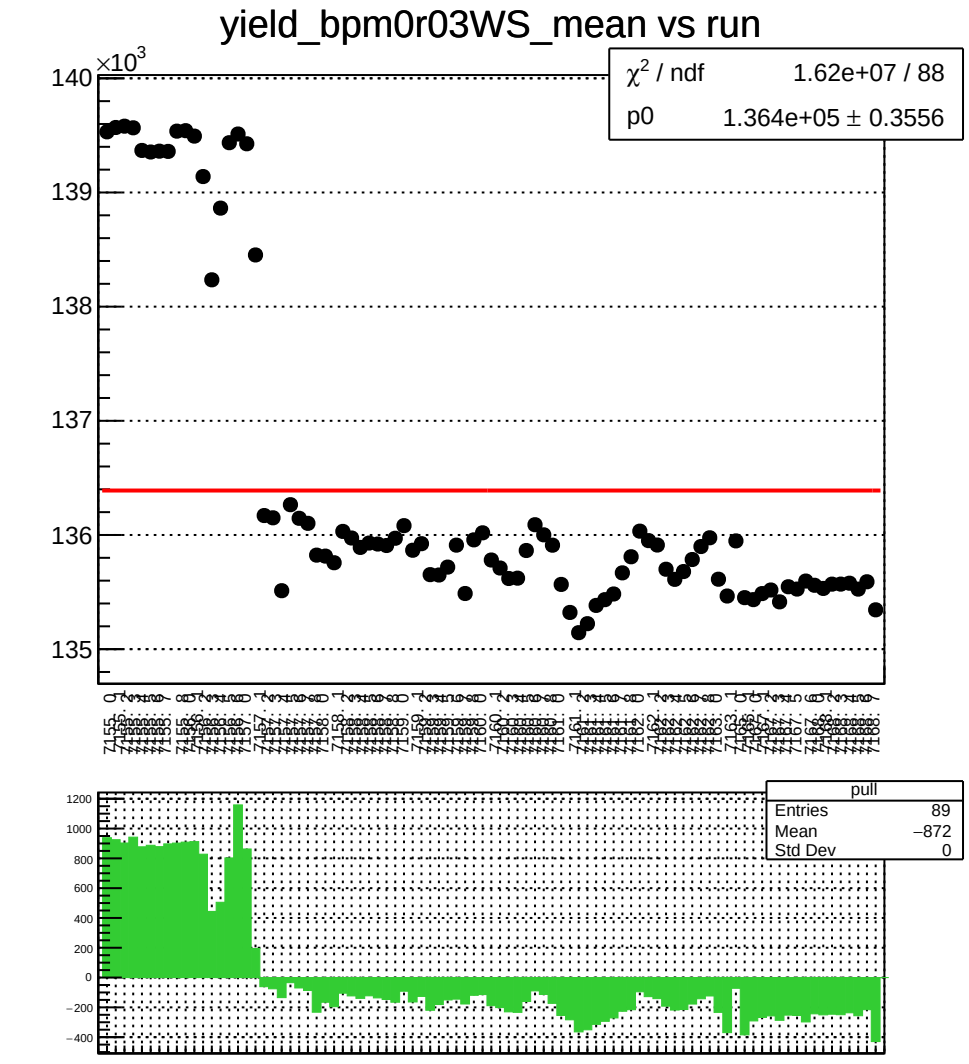

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

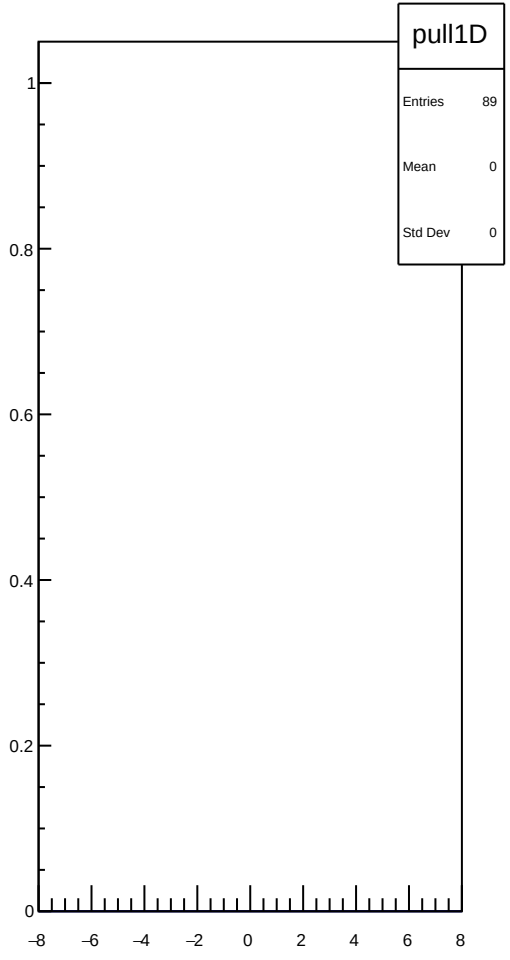

yield_bpm0l09WS_rms vs run
χ² / ndf 8236 / 88
p0 236.3 ± 0.1801
420
400
380
360
340
320
300
280
260
240
220

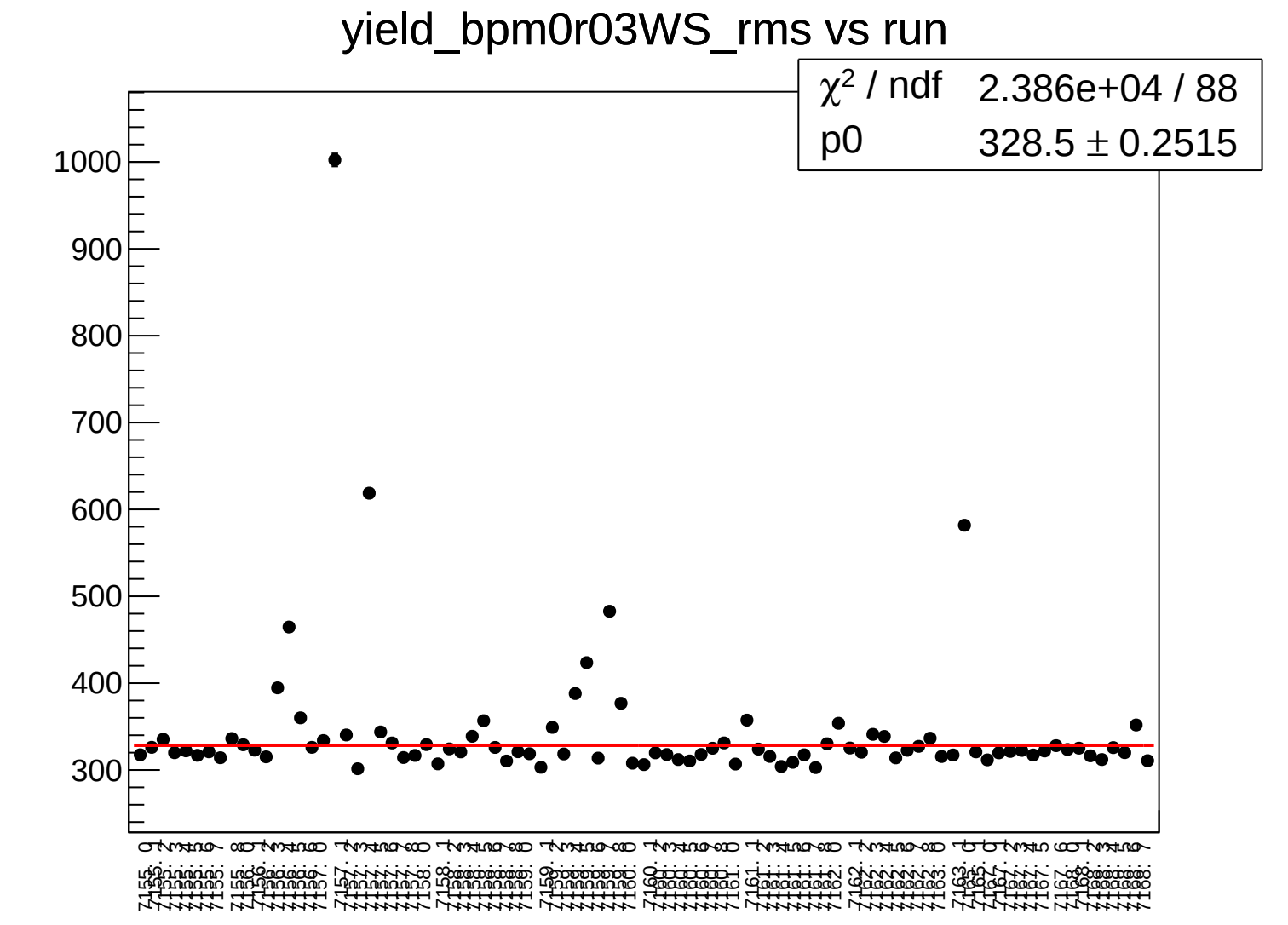

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.426e+05 / 88
p0 1.432e+05 ± 0.2542
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 89
Mean −290.1
Std Dev 0
50
0
−50
−100
−150
−200
−250

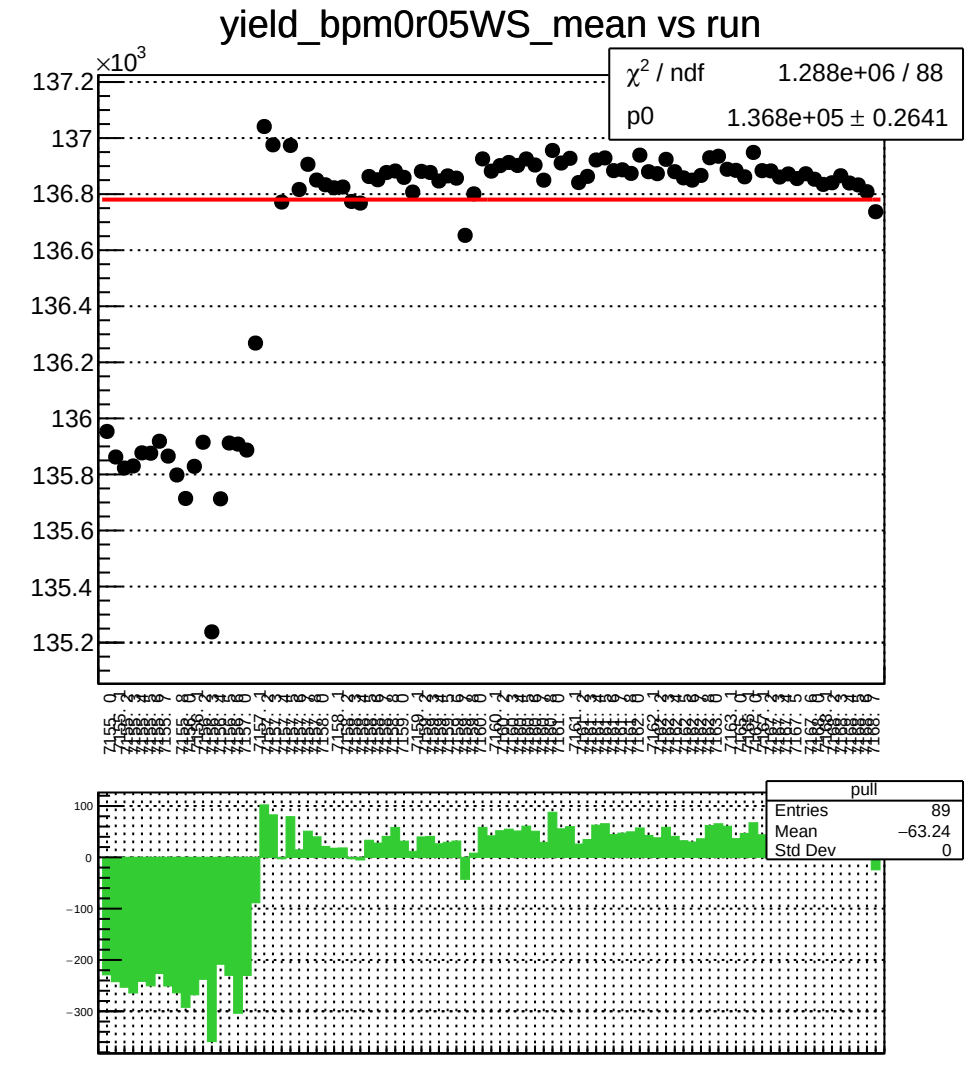

pull1D
Entries 89
Mean 1.249
Std Dev 3.488
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

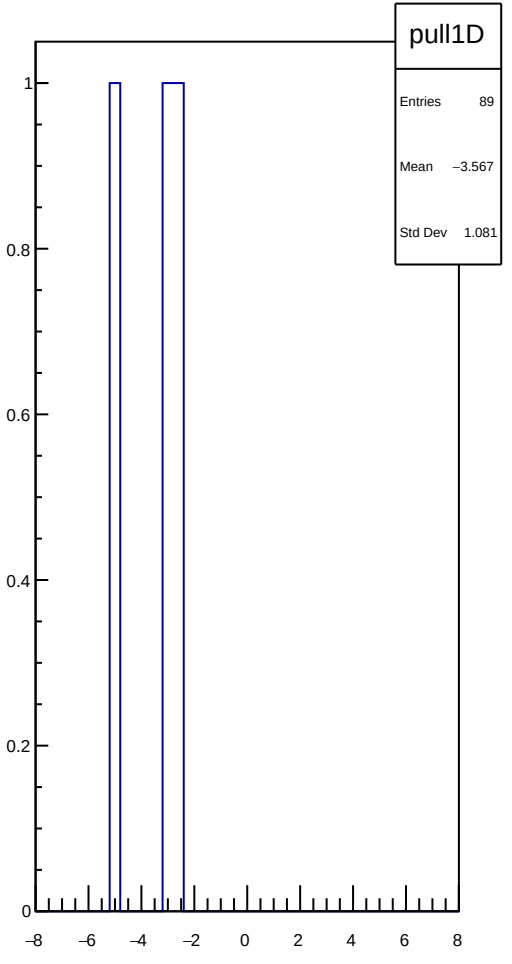

yield_bpm0l10WS_rms vs run
χ² / ndf 6846 / 88
p0 235.9 ± 0.1797
450
400
350
300
250
200

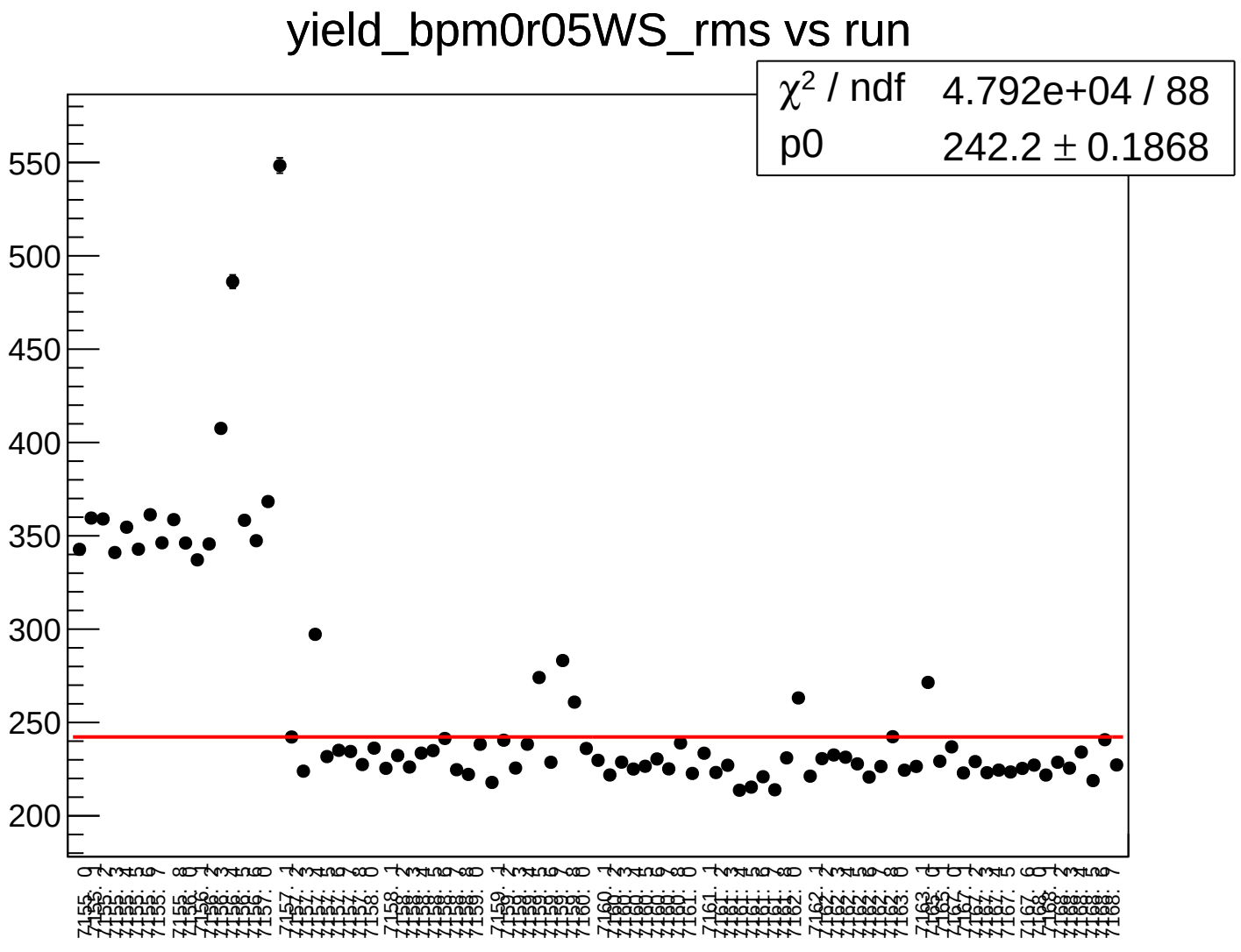

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.62e+07 / 88
p0 1.364e+05 ± 0.3556
140
139
138
137
136
135
pull
Entries 89
Mean −872
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

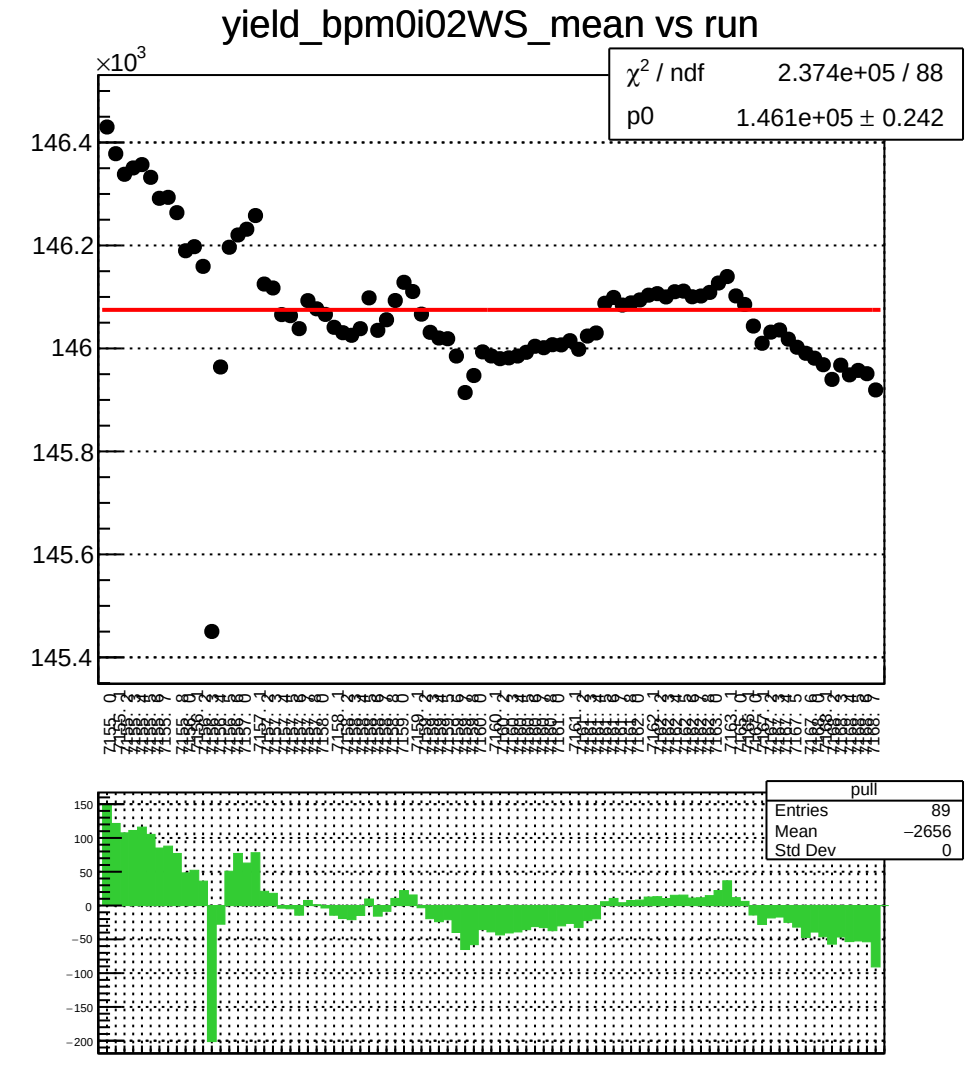

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

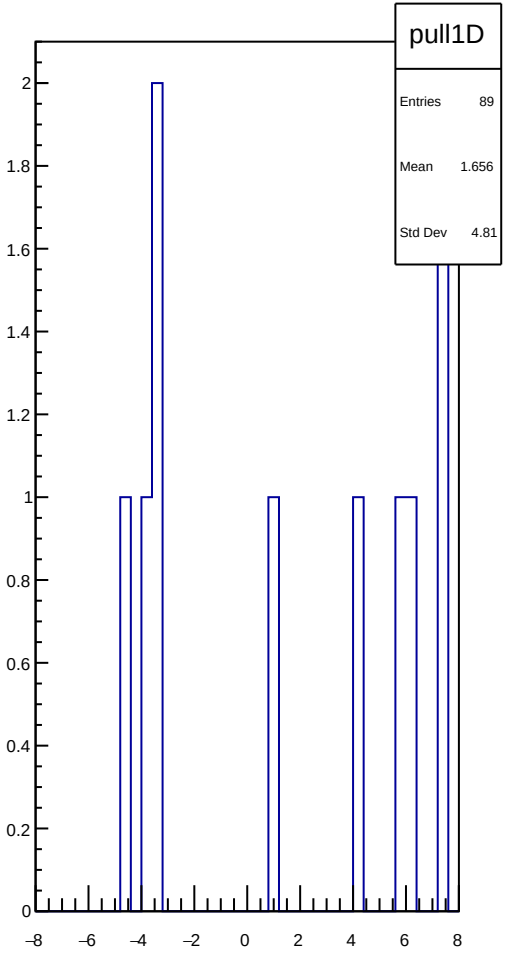

yield_bpm0r03WS_rms vs run
χ² / ndf 2.386e+04 / 88
p0 328.5 ± 0.2515
1000
900
800
700
600
500
400
300

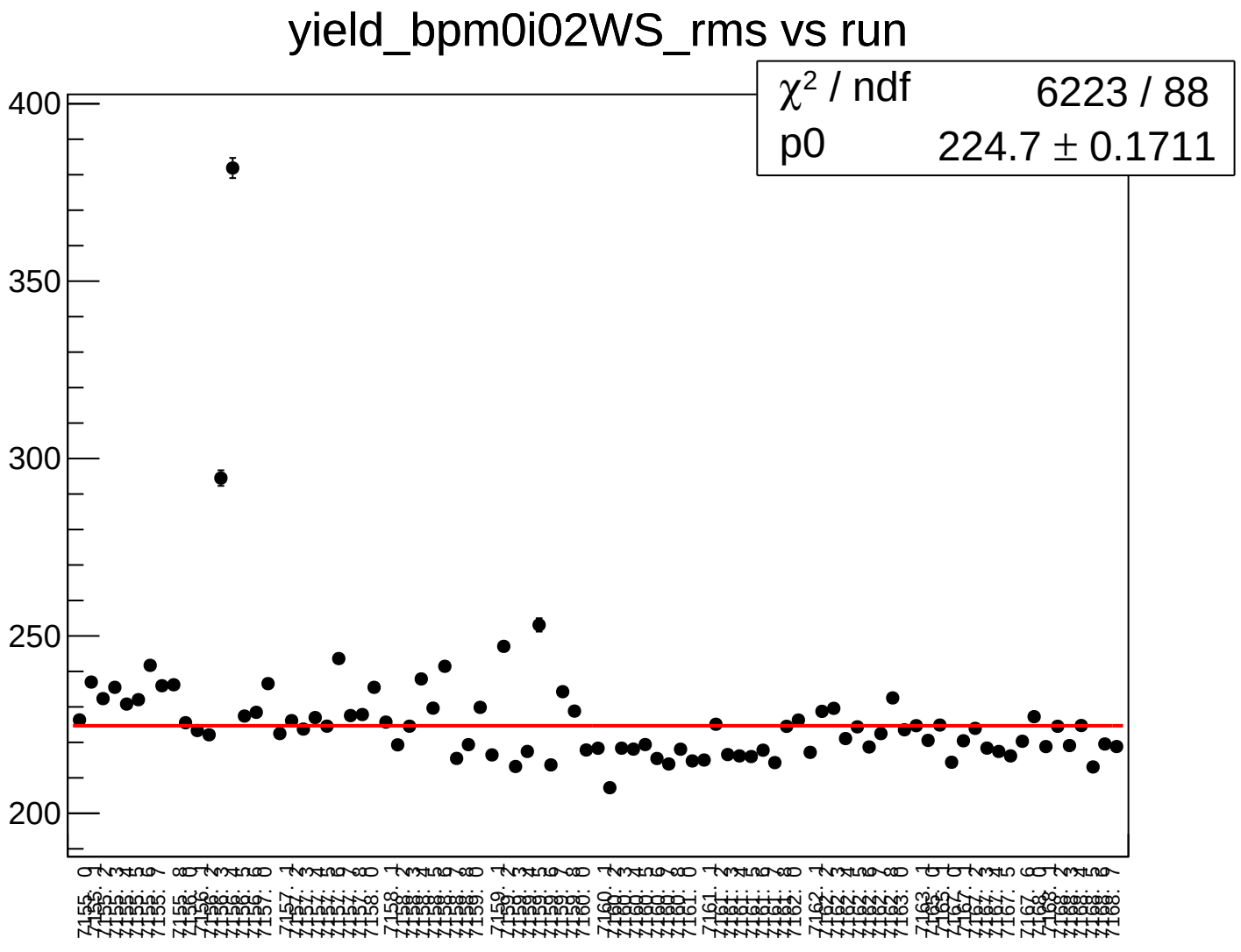

yield_bpm0r05WS_mean vs run
×10^3
137.2
137
136.8
136.6
136.4
136.2
136
135.8
135.6
135.4
135.2
χ² / ndf 1.288e+06 / 88
p0 1.368e+05 ± 0.2641
pull
Entries 89
Mean −63.24
Std Dev 0
100
0
−100
−200
−300

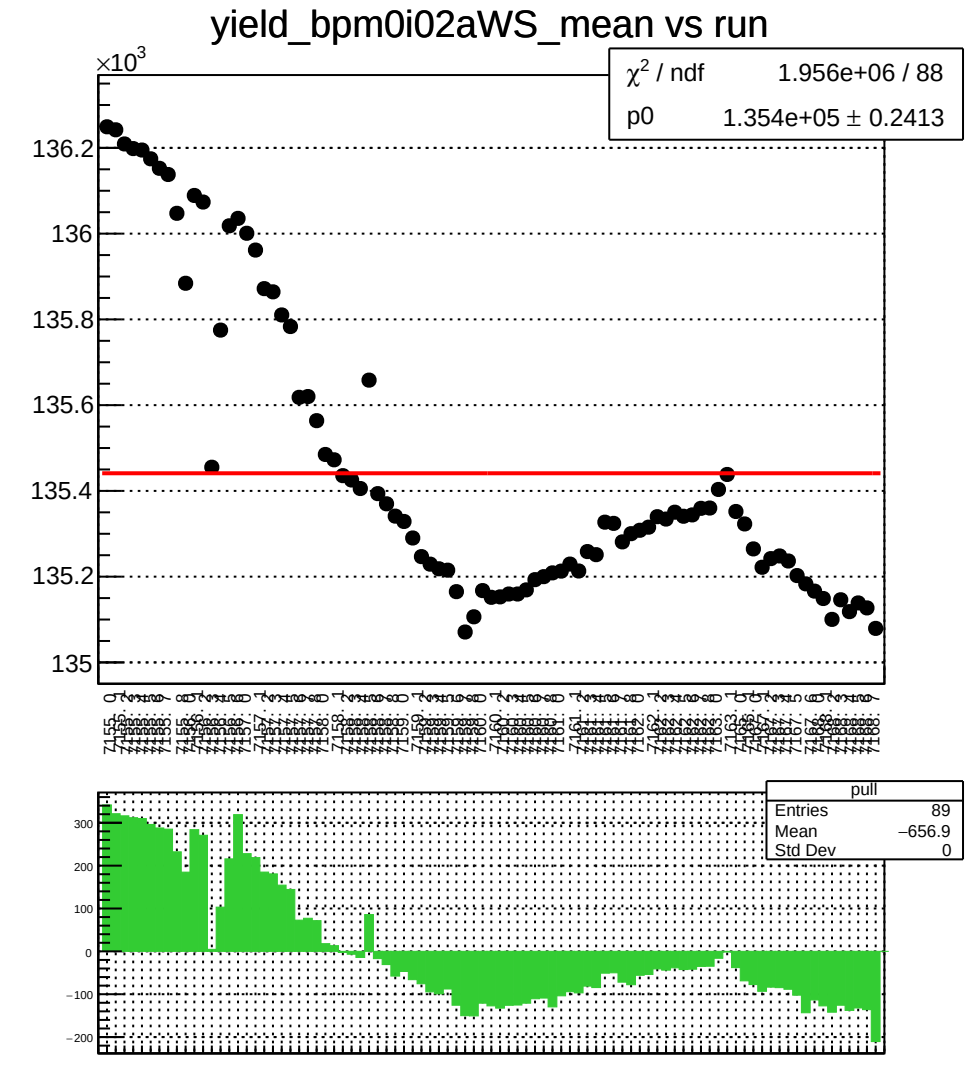

pull1D
Entries 89
Mean −3.567
Std Dev 1.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

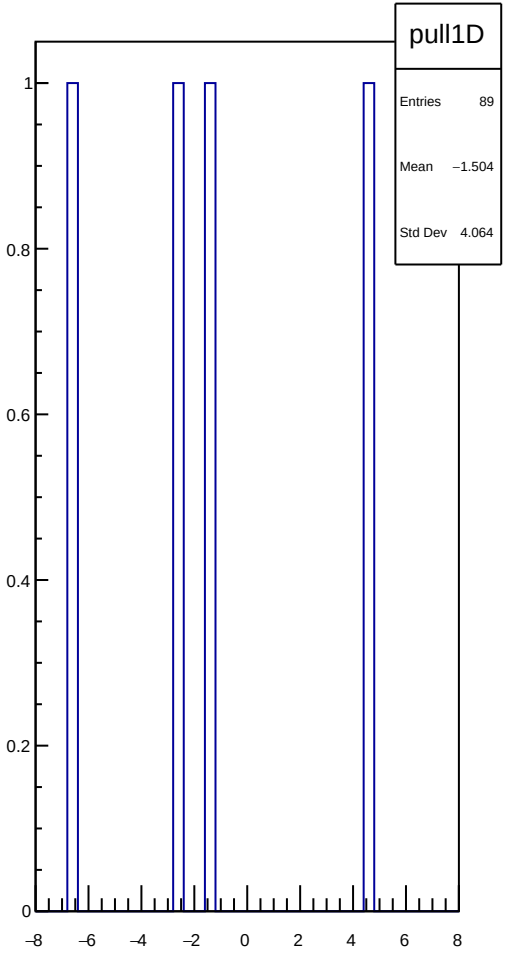

yield_bpm0r05WS_rms vs run
χ² / ndf 4.792e+04 / 88
p0 242.2 ± 0.1868
550
500
450
400
350
300
250
200

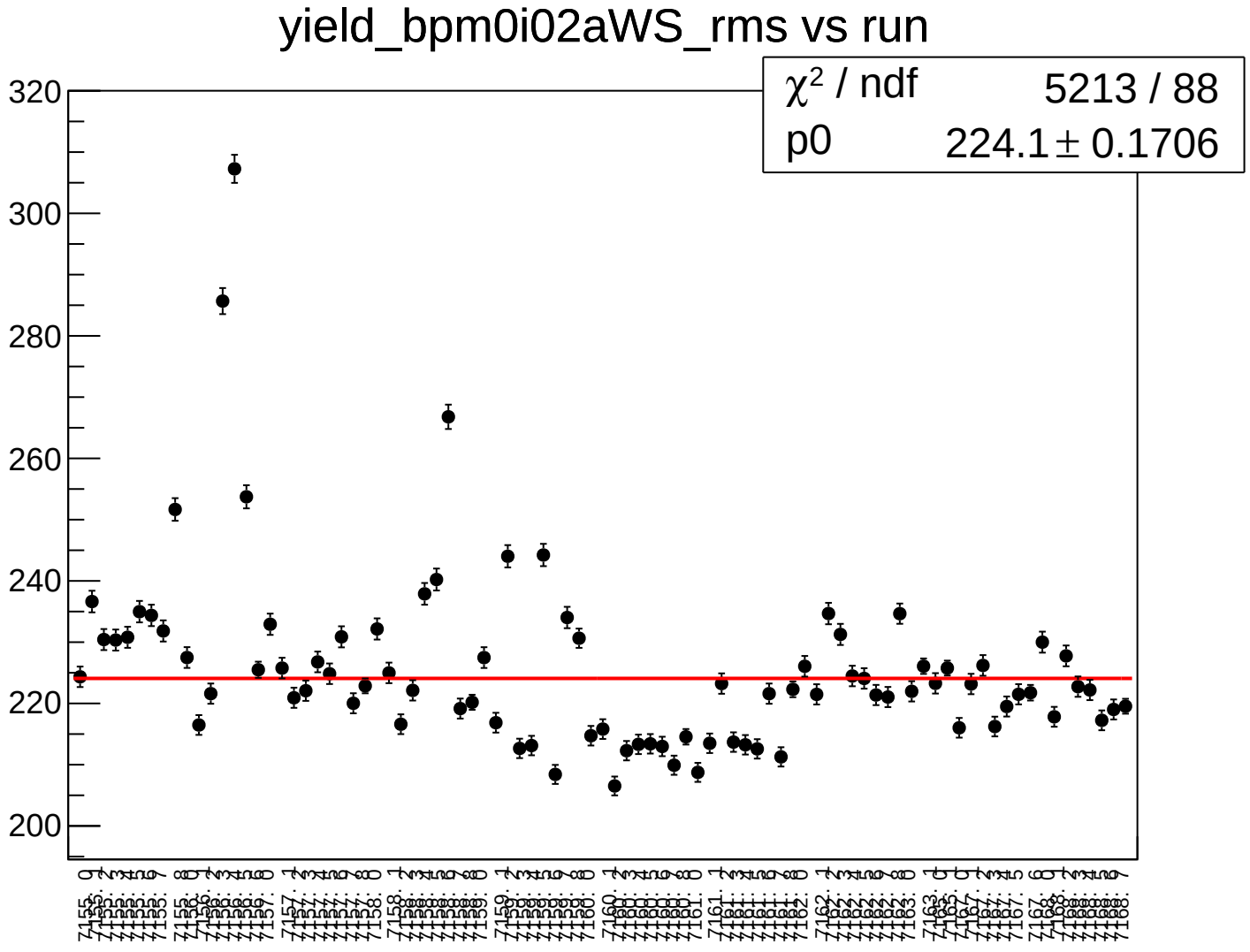

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.374e+05 / 88
p0 1.461e+05 ± 0.242
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 89
Mean −2656
Std Dev 0
150
100
50
0
−50
−100
−150
−200

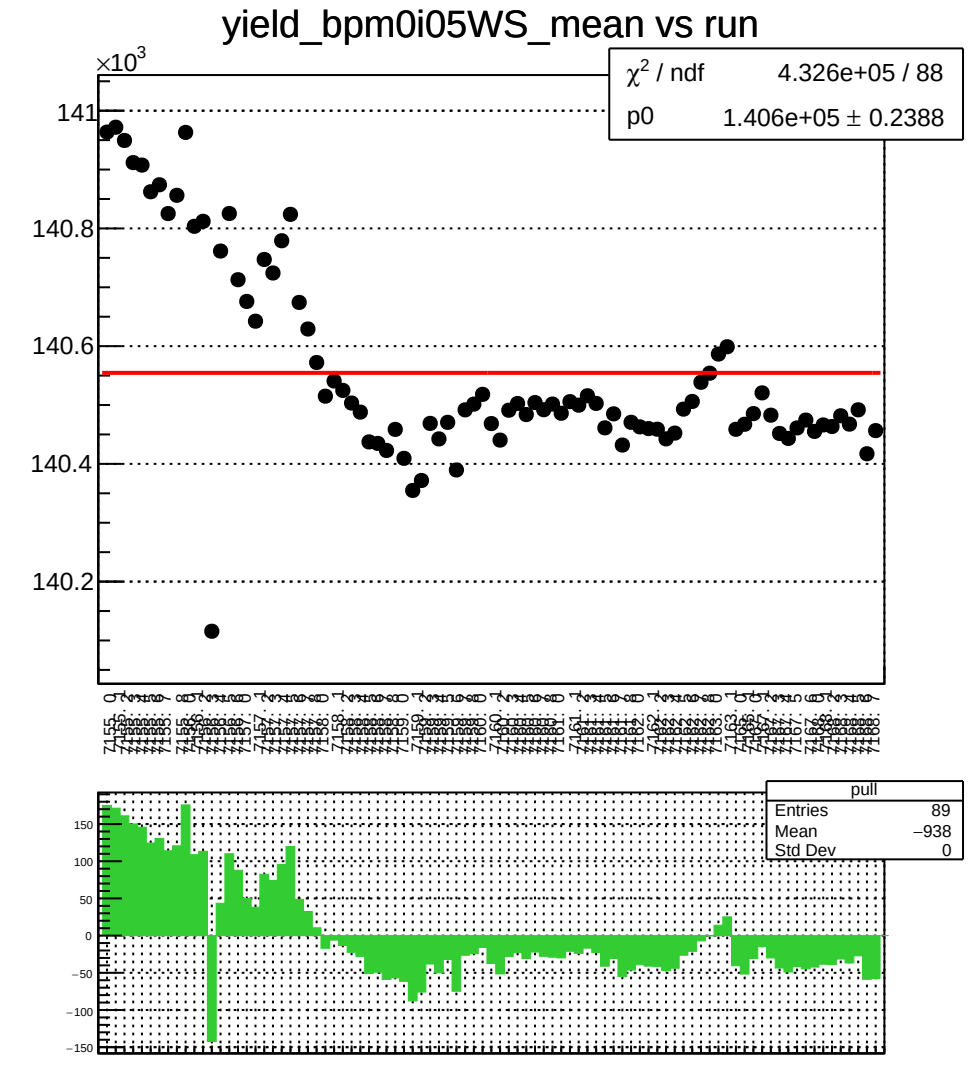

pull1D
Entries 89
Mean 1.656
Std Dev 4.81
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

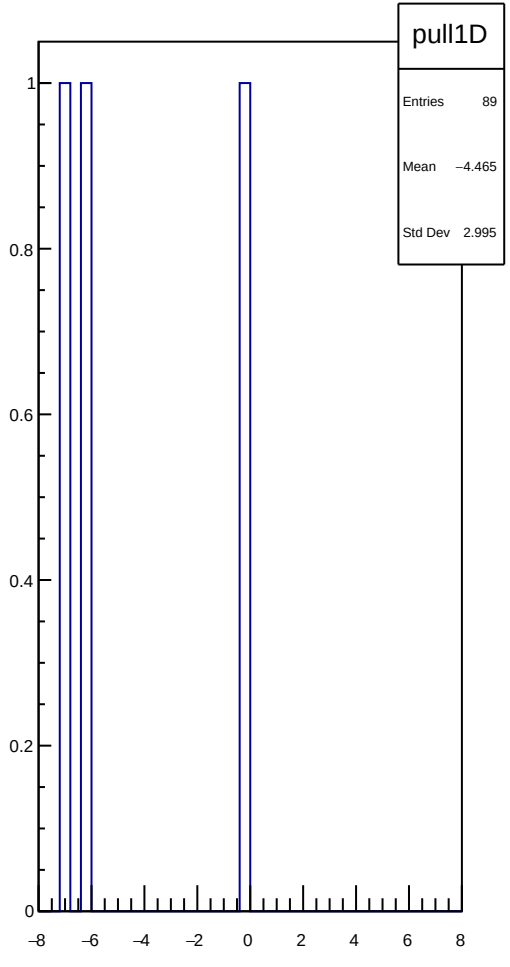

yield_bpm0i02WS_rms vs run
χ² / ndf 6223 / 88
p0 224.7 ± 0.1711
400
350
300
250
200

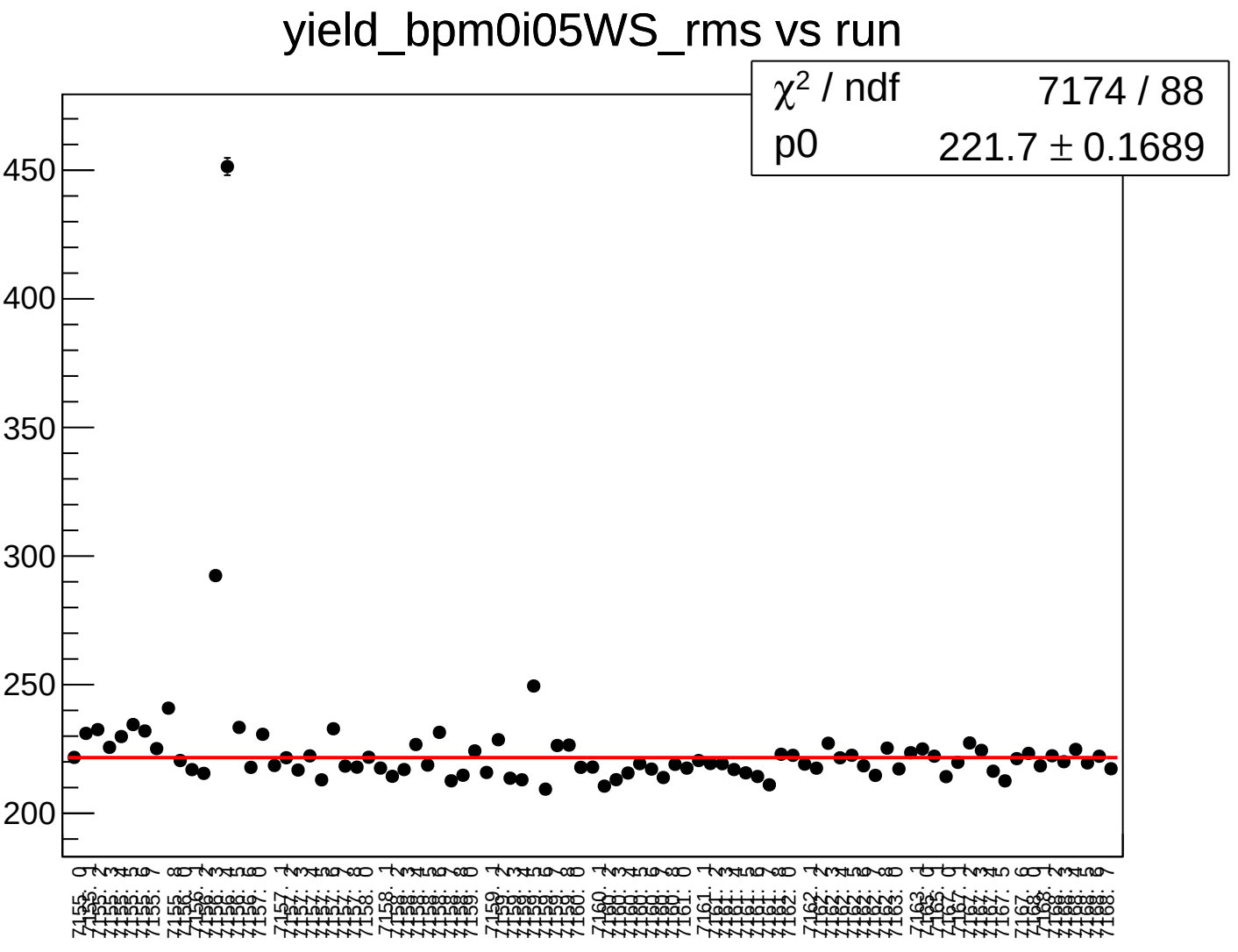

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.956e+06 / 88
p0 1.354e+05 ± 0.2413
136.2
136
135.8
135.6
135.4
135.2
135
pull
Entries 89
Mean −656.9
Std Dev 0
300
200
100
0
−100
−200

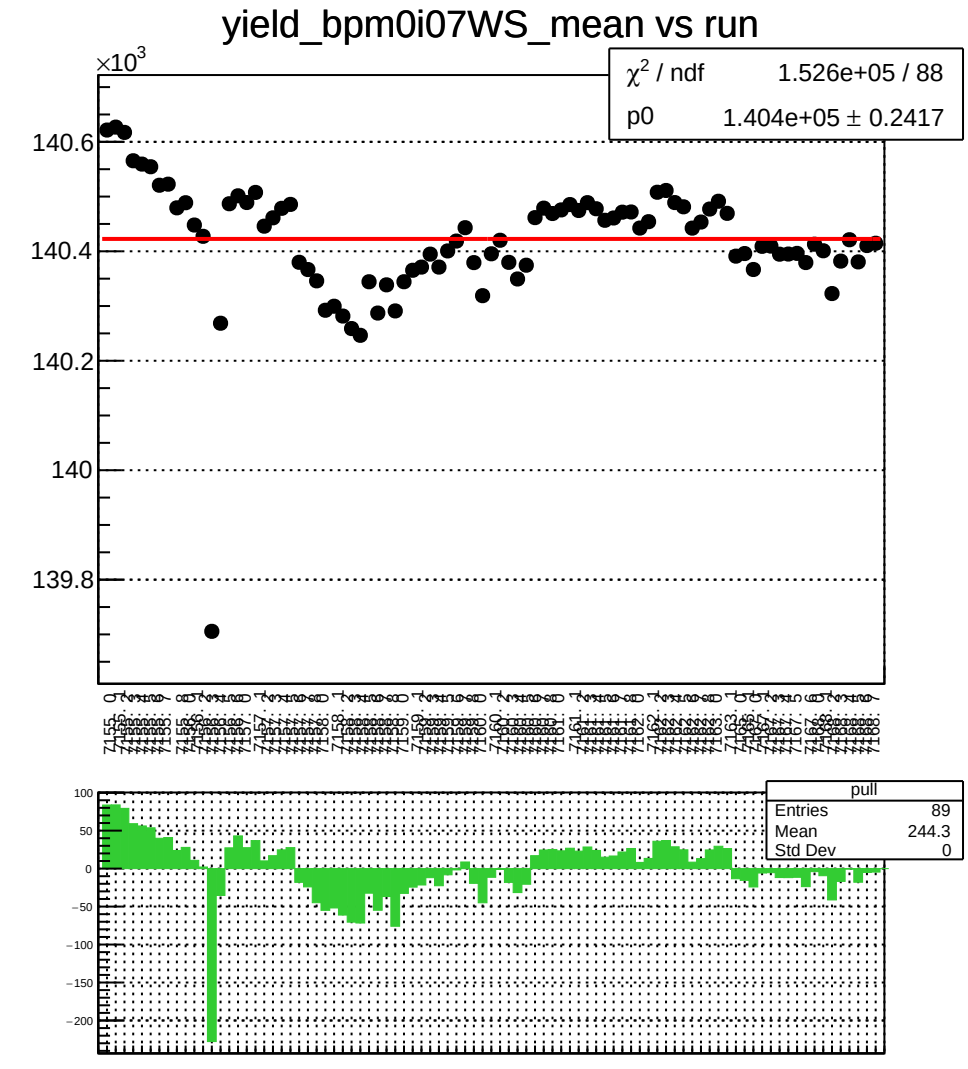

pull1D
Entries 89
Mean −1.504
Std Dev 4.064
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

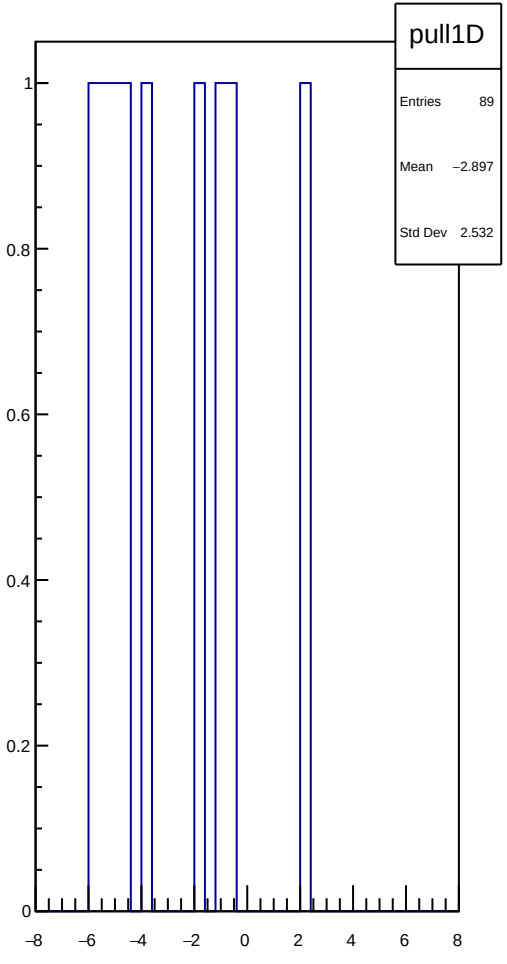

yield_bpm0i02aWS_rms vs run
χ² / ndf 5213 / 88
p0 224.1 ± 0.1706
320
300
280
260
240
220
200

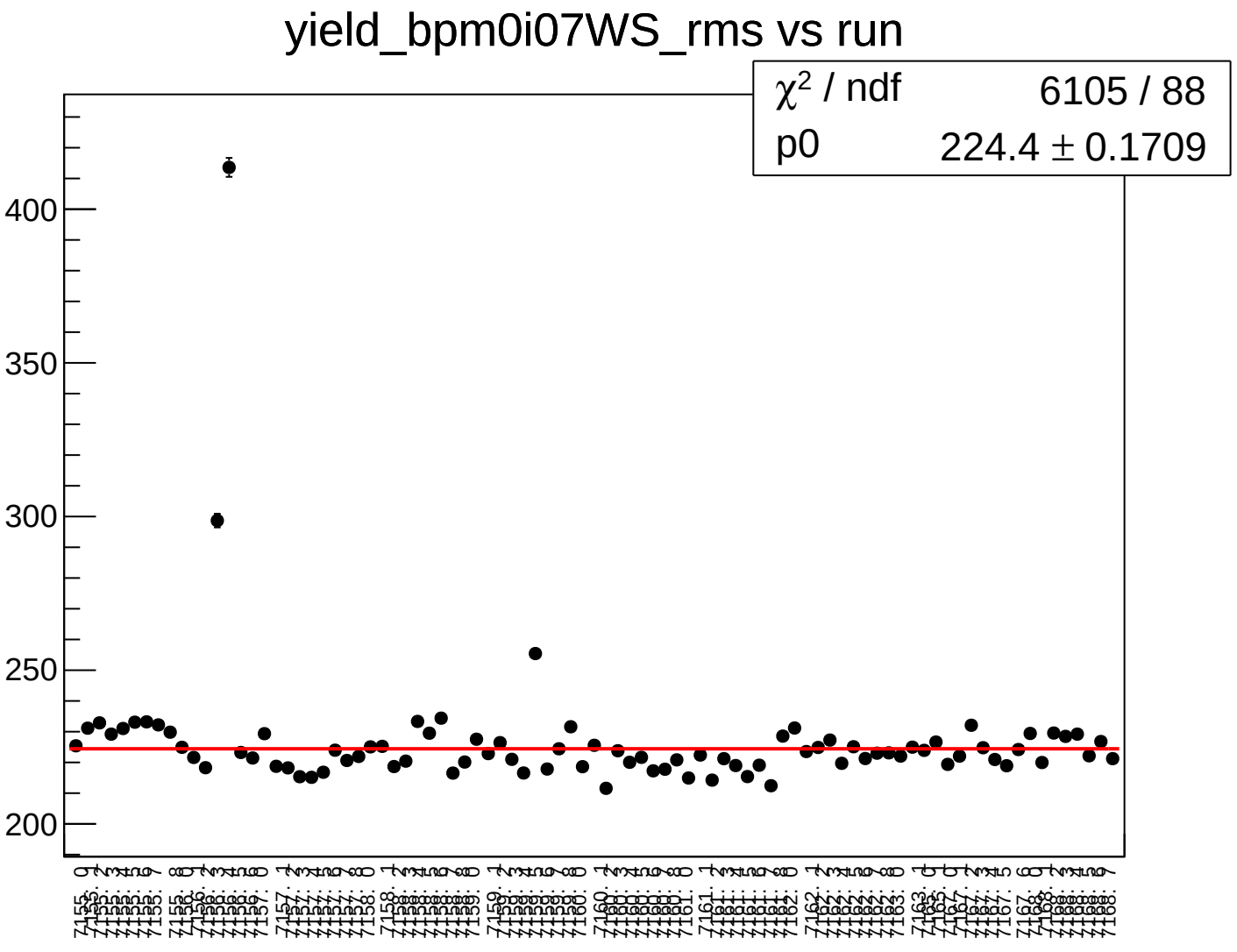

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.326e+05 / 88
p0 1.406e+05 ± 0.2388
141
140.8
140.6
140.4
140.2
pull
Entries 89
Mean −938
Std Dev 0
150
100
50
0
−50
−100
−150

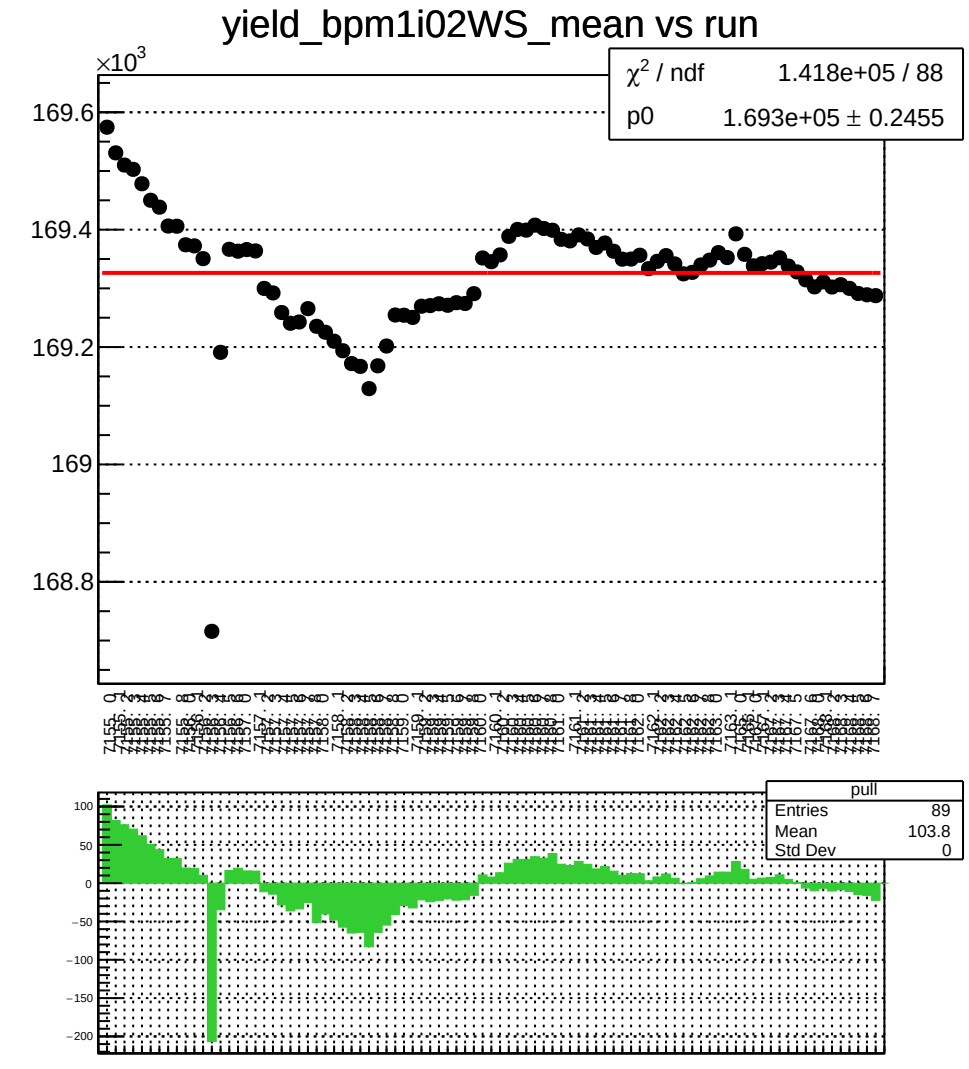

pull1D
Entries 89
Mean −4.465
Std Dev 2.995
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

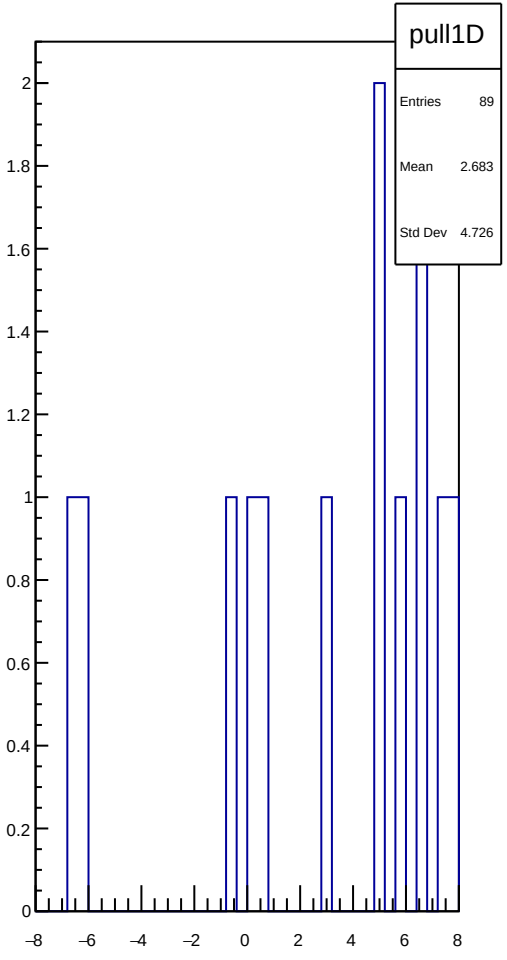

yield_bpm0i05WS_rms vs run
χ² / ndf 7174 / 88
p0 221.7 ± 0.1689
450
400
350
300
250
200

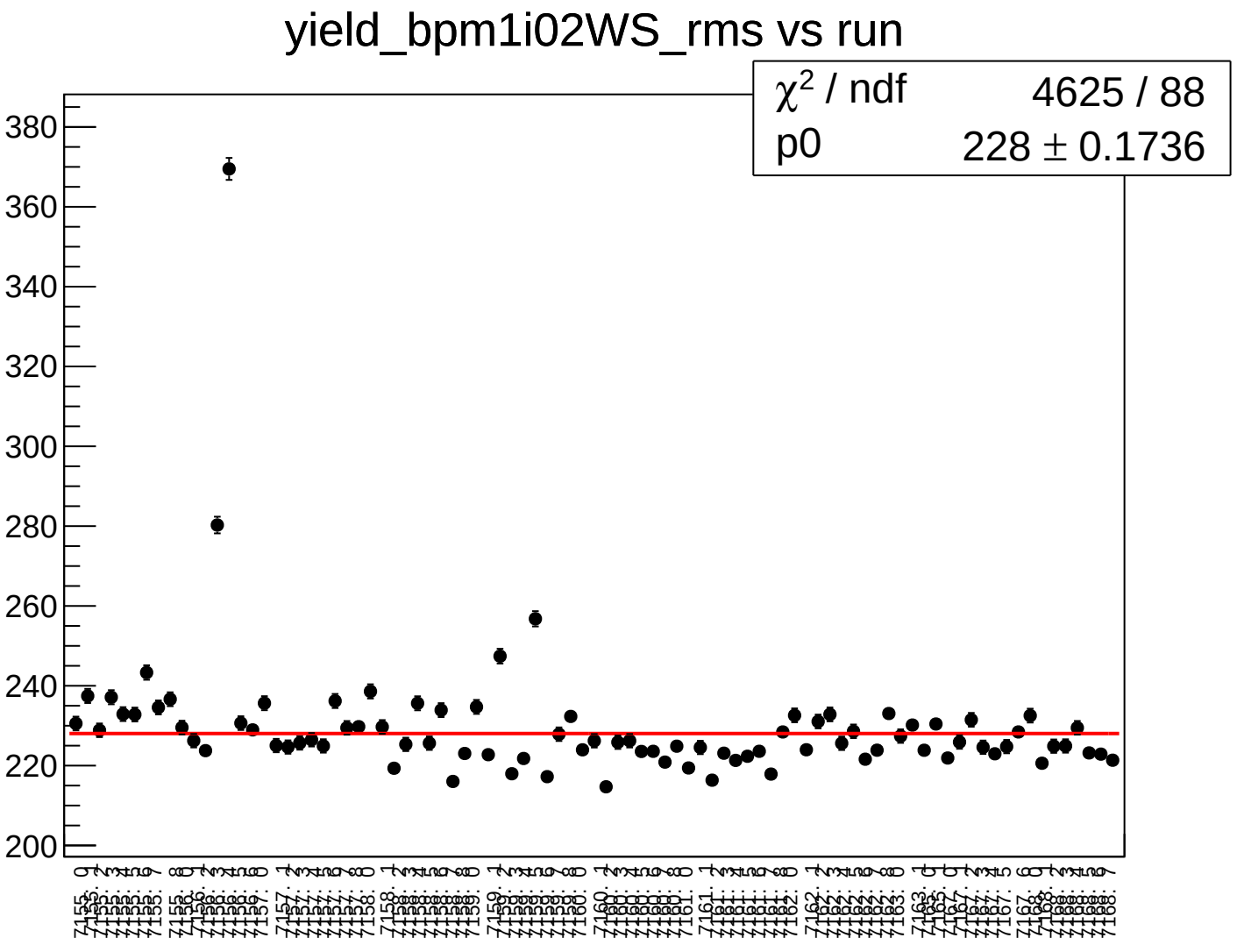

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 1.526e+05 / 88
p0 1.404e+05 ± 0.2417
140.6
140.4
140.2
140
139.8
pull
Entries 89
Mean 244.3
Std Dev 0
100
50
0
−50
−100
−150
−200

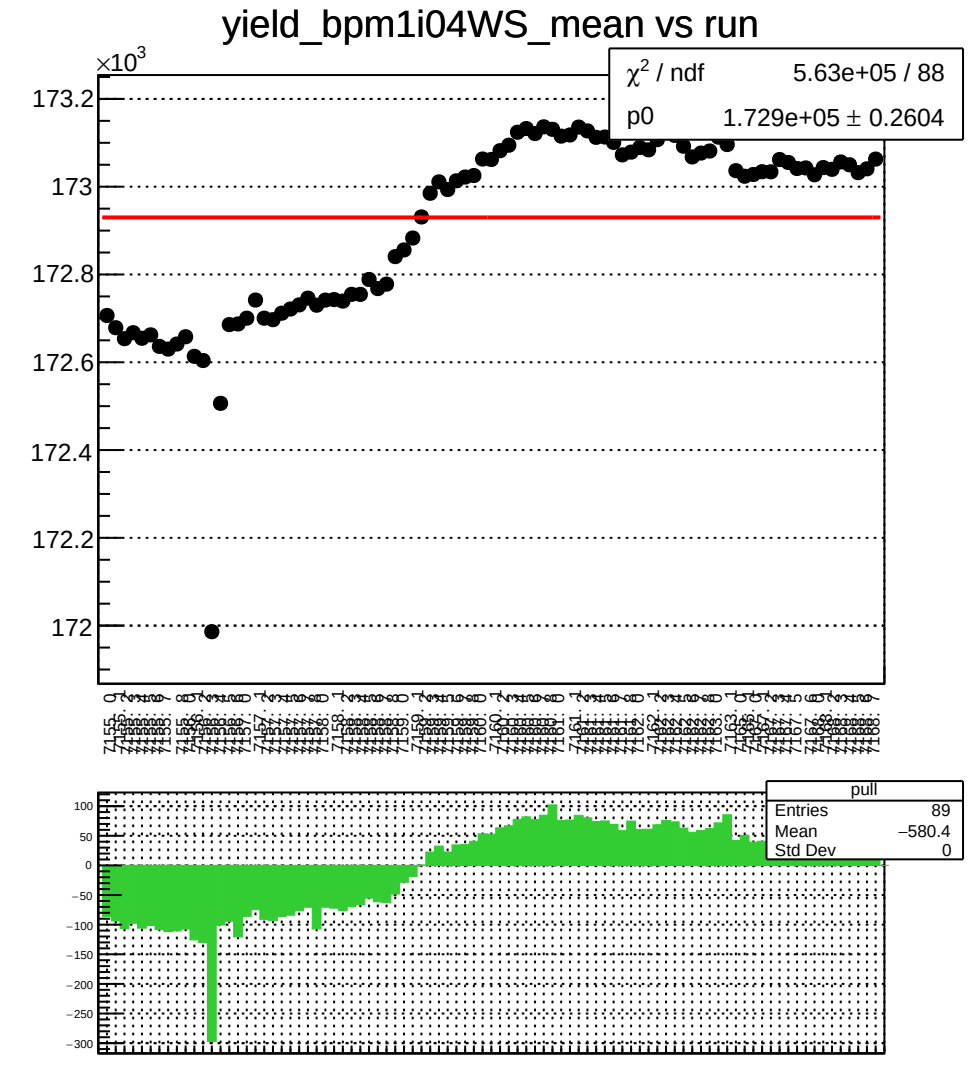

pull1D
Entries 89
Mean −2.897
Std Dev 2.532
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

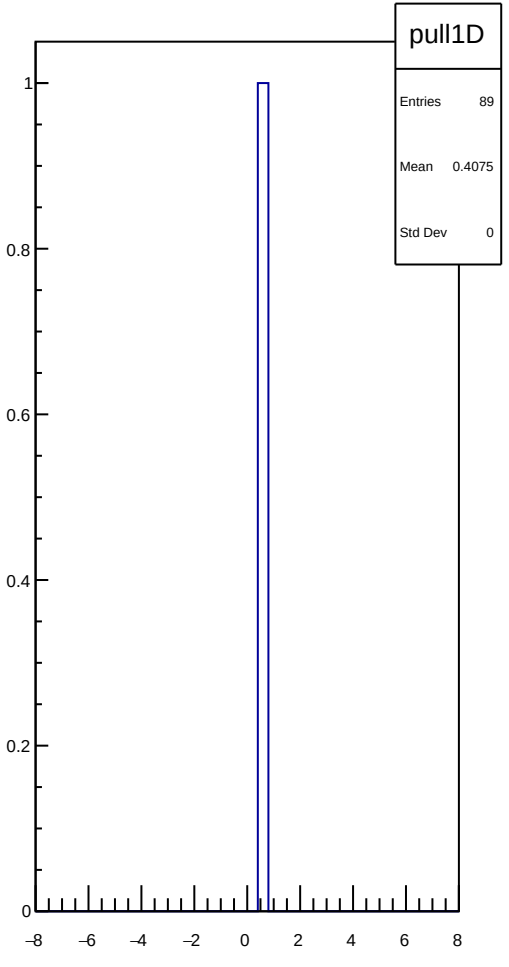

yield_bpm0i07WS_rms vs run
χ² / ndf 6105 / 88
p0 224.4 ± 0.1709
400
350
300
250
200

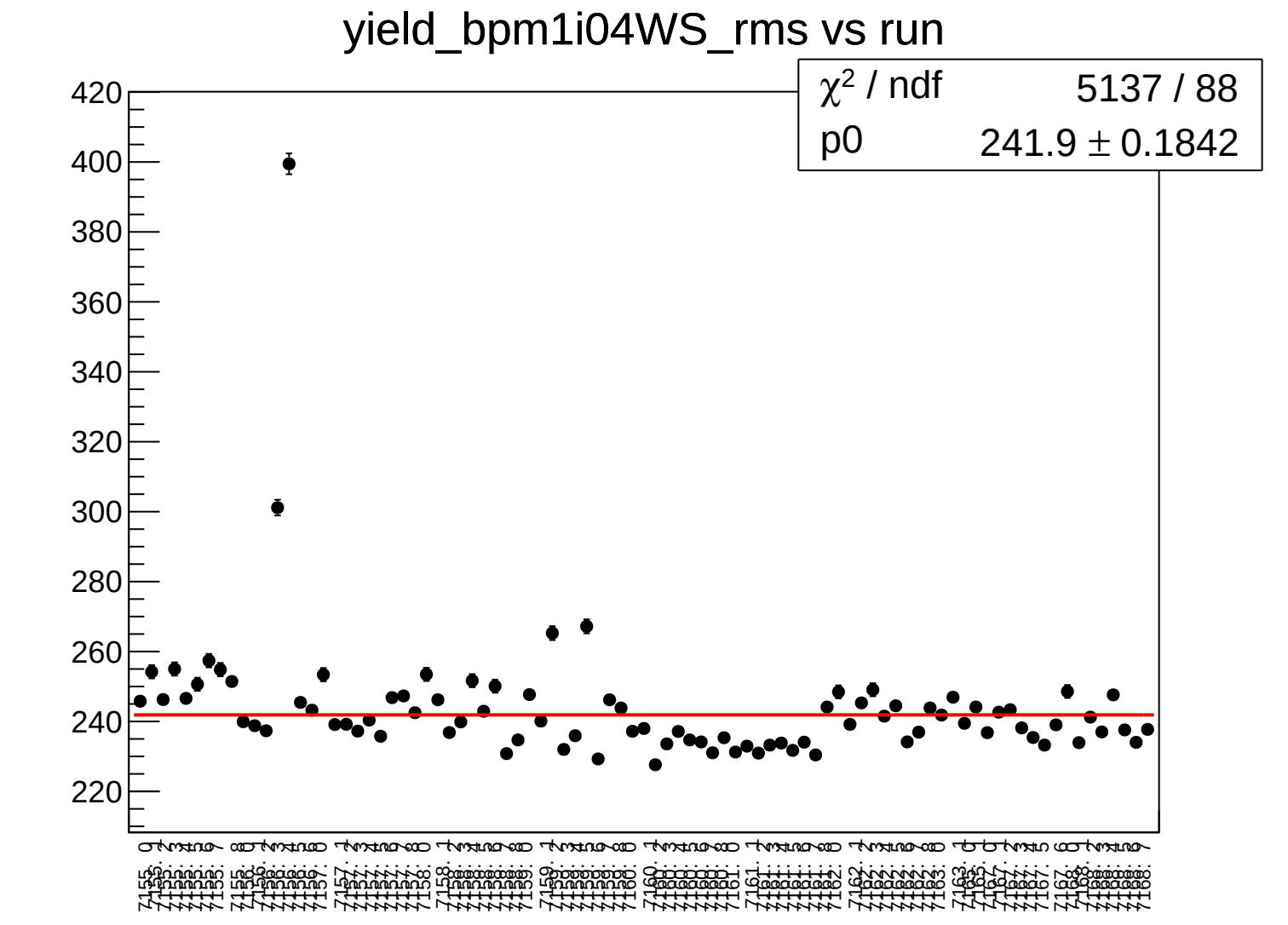

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.418e+05 / 88
p0 1.693e+05 ± 0.2455
169.6
169.4
169.2
169
168.8
pull
Entries 89
Mean 103.8
Std Dev 0
100
50
0
−50
−100
−150
−200

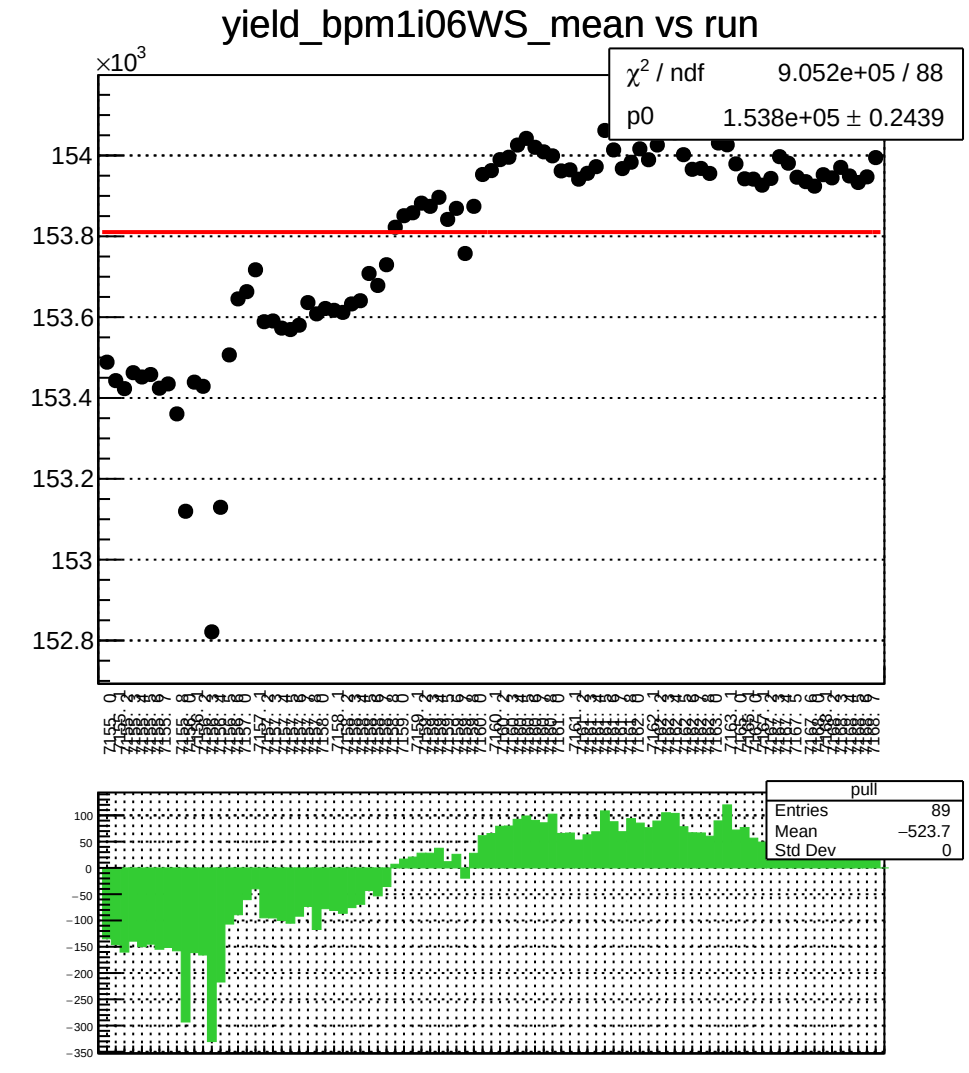

pull1D
Entries 89
Mean 2.683
Std Dev 4.726
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

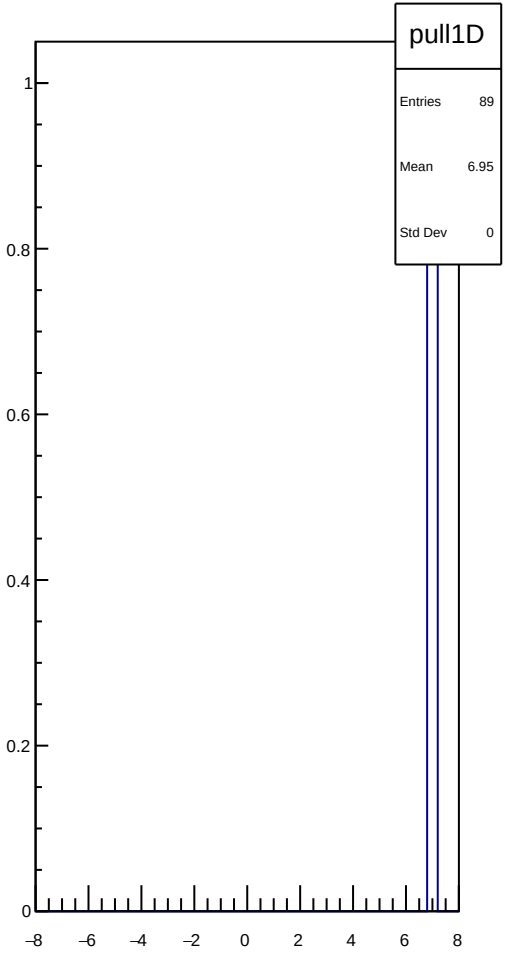

yield_bpm1i02WS_rms vs run
χ² / ndf 4625 / 88
p0 228 ± 0.1736
380
360
340
320
300
280
260
240
220
200

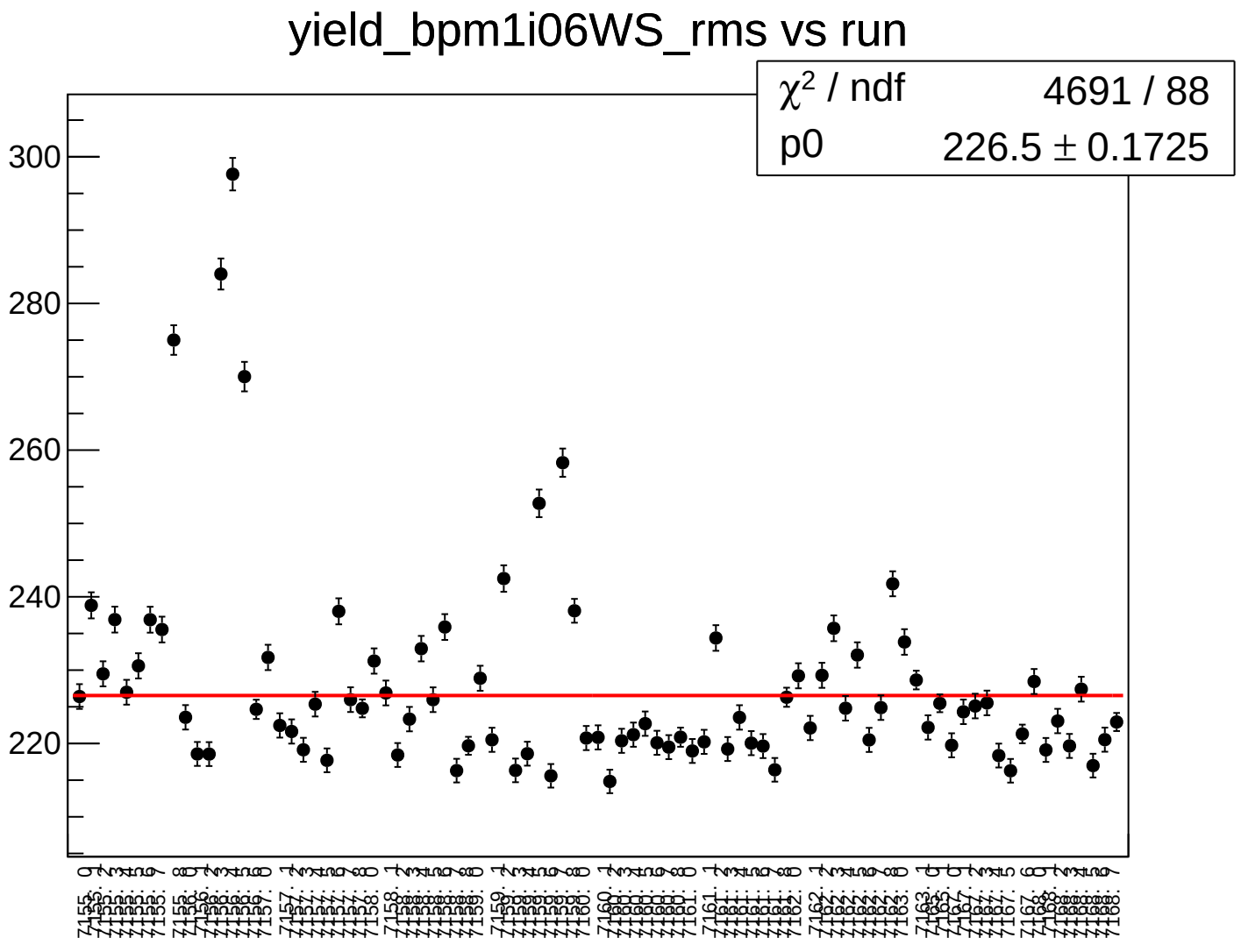

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.63e+05 / 88
p0 1.729e+05 ± 0.2604
173.2
173
172.8
172.6
172.4
172.2
172
pull
Entries 89
Mean −580.4
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300

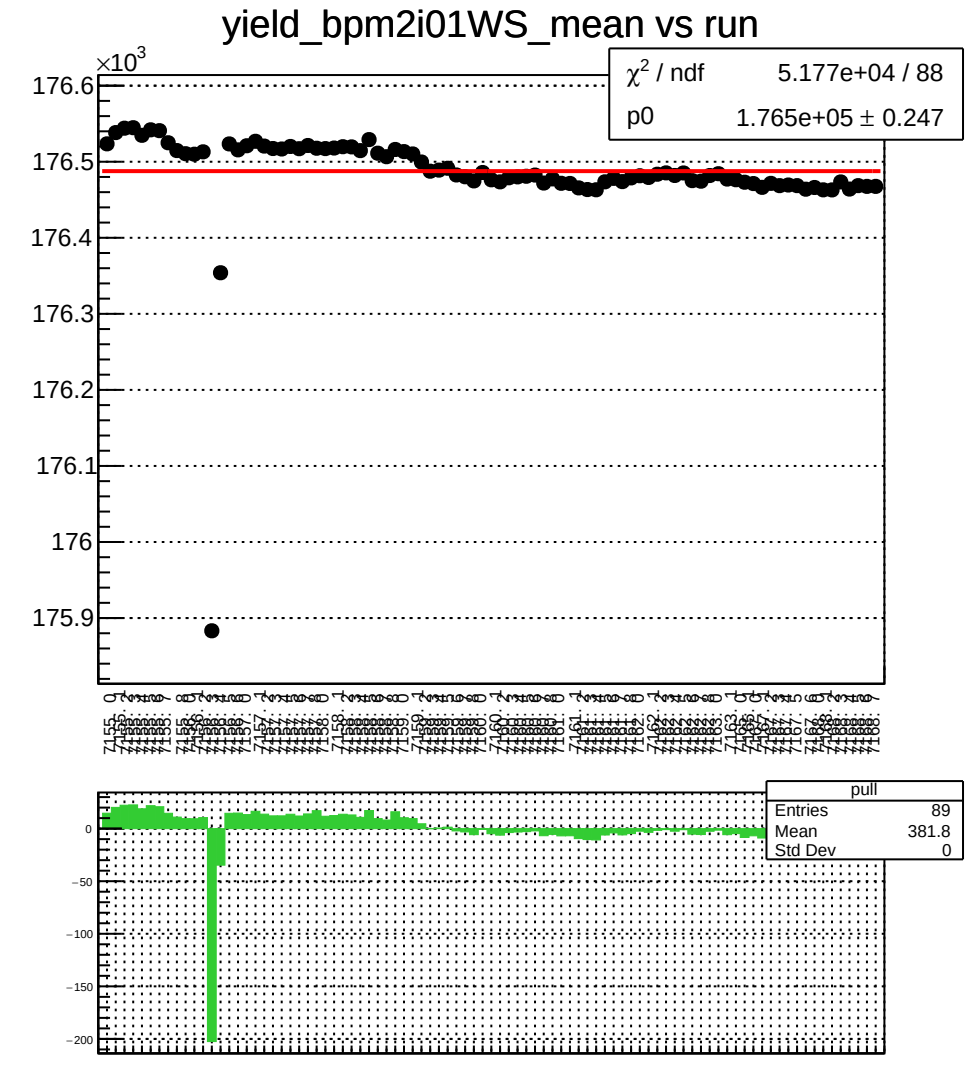

pull1D
Entries 89
Mean 0.4075
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

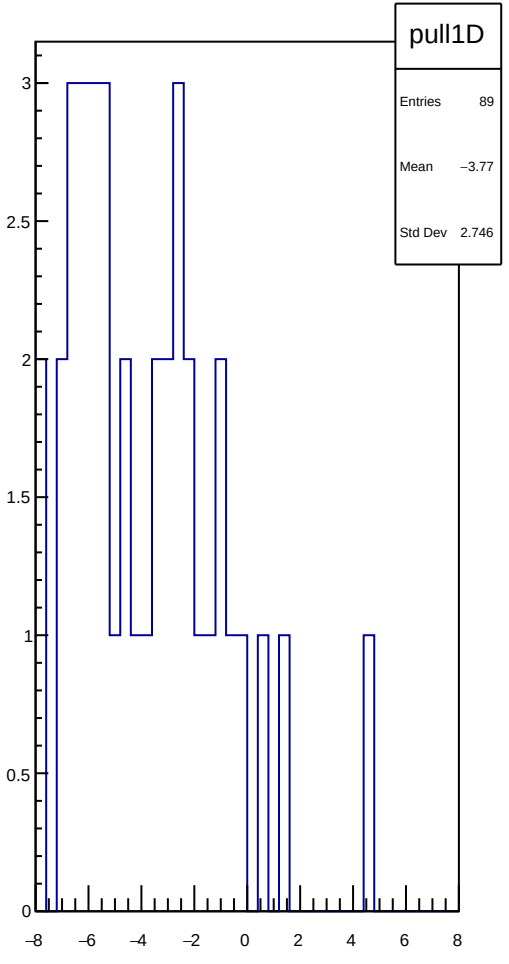

yield_bpm1i04WS_rms vs run
χ² / ndf 5137 / 88
p0 241.9 ± 0.1842
420
400
380
360
340
320
300
280
260
240
220

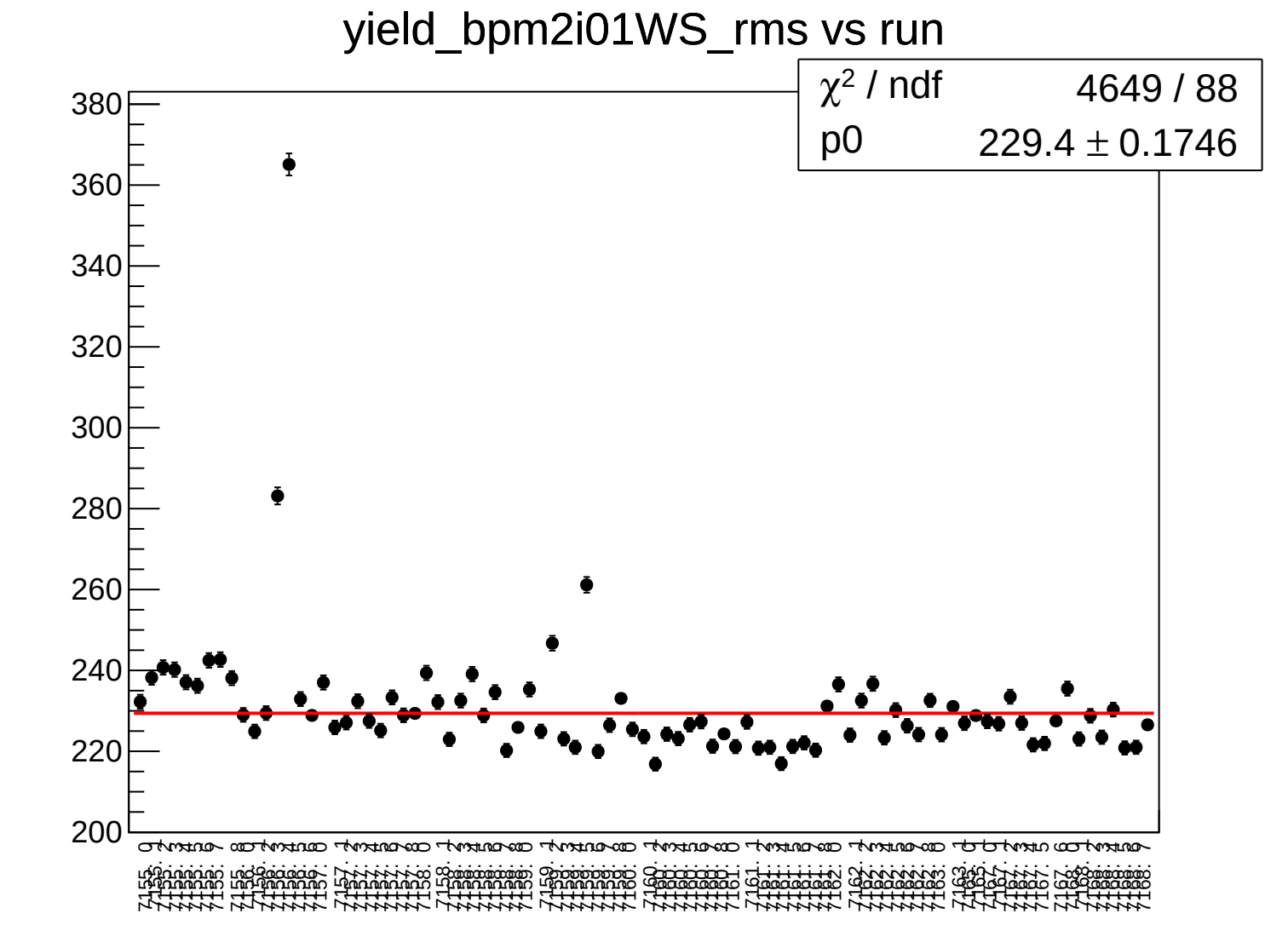

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 9.052e+05 / 88
p0 1.538e+05 ± 0.2439
154
153.8
153.6
153.4
153.2
153
152.8
pull
Entries 89
Mean −523.7
Std Dev 0
100
50
0
−50
−100
−150
−200
−250
−300
−350

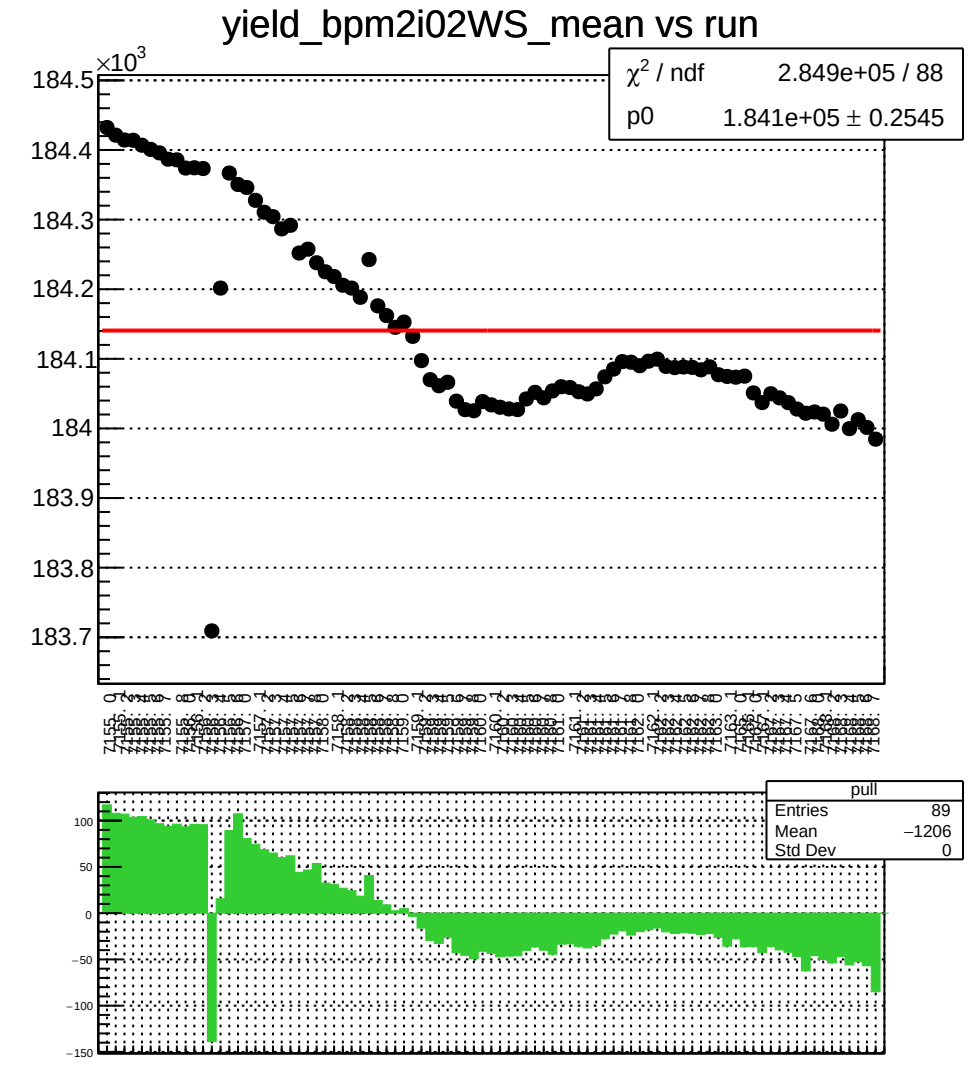

pull1D
Entries 89
Mean 6.95
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

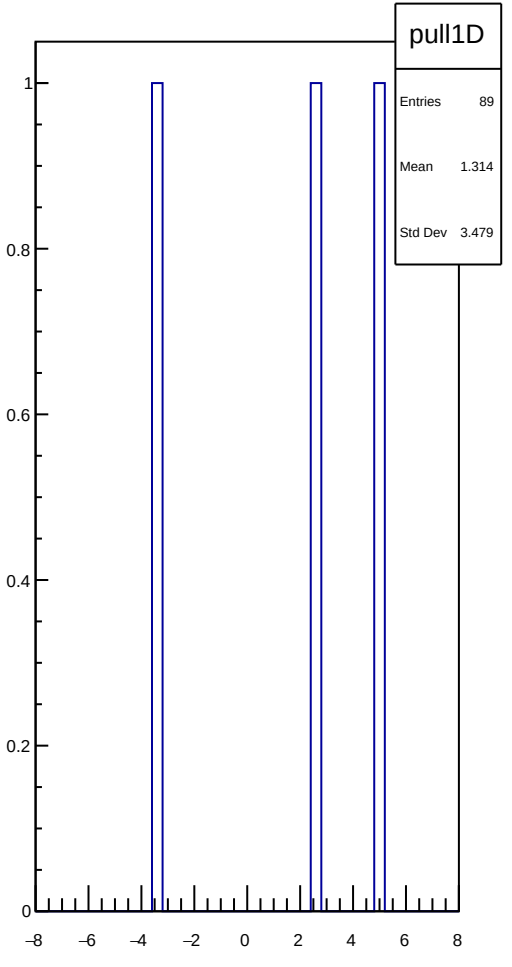

yield_bpm1i06WS_rms vs run
χ² / ndf 4691 / 88
p0 226.5 ± 0.1725
300
280
260
240
220

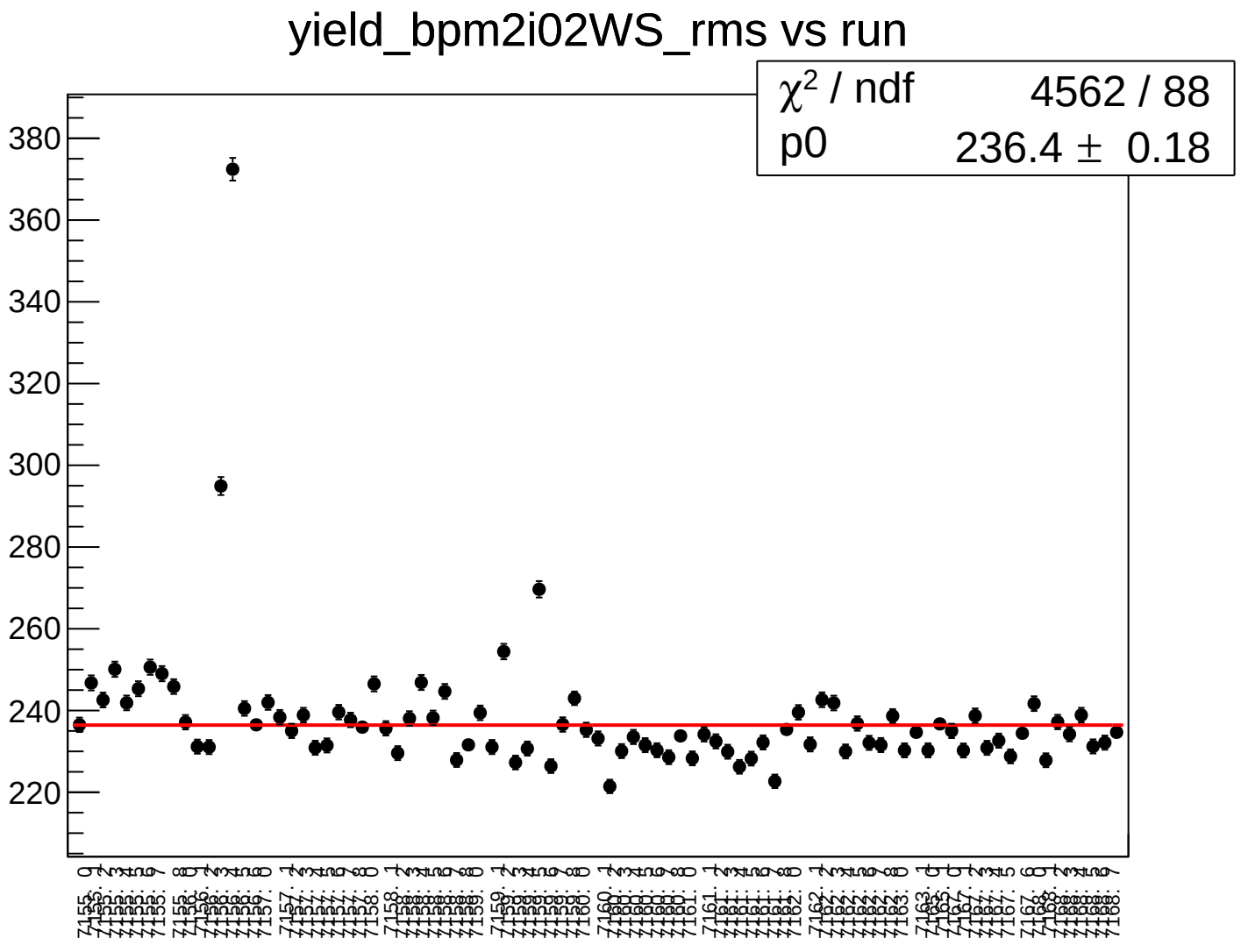

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5.177e+04 / 88
p0 1.765e+05 ± 0.247
176.6
176.5
176.4
176.3
176.2
176.1
176
175.9
pull
Entries 89
Mean 381.8
Std Dev 0
0
−50
−100
−150
−200

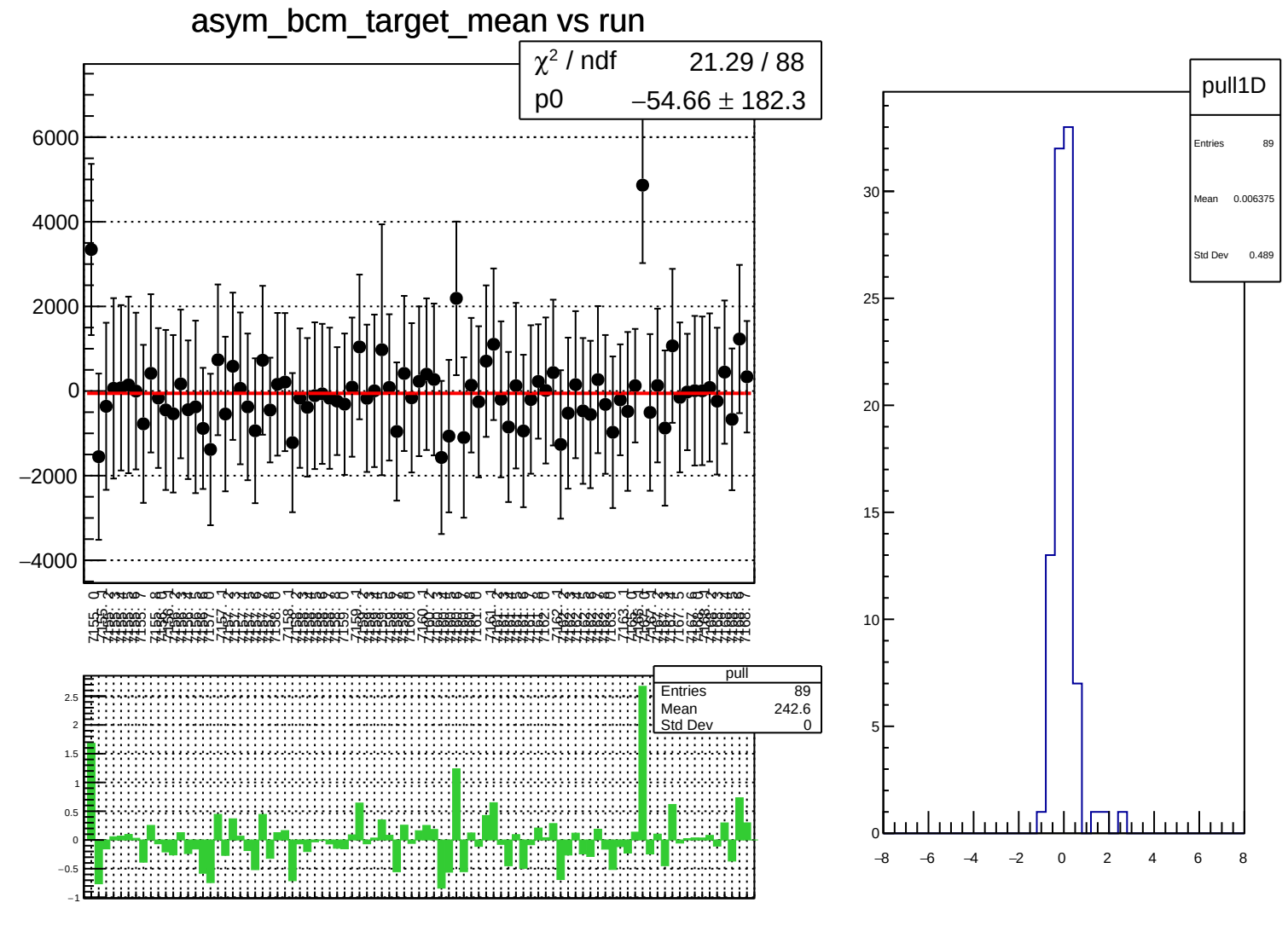

pull1D
Entries 89
Mean −3.77
Std Dev 2.746
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

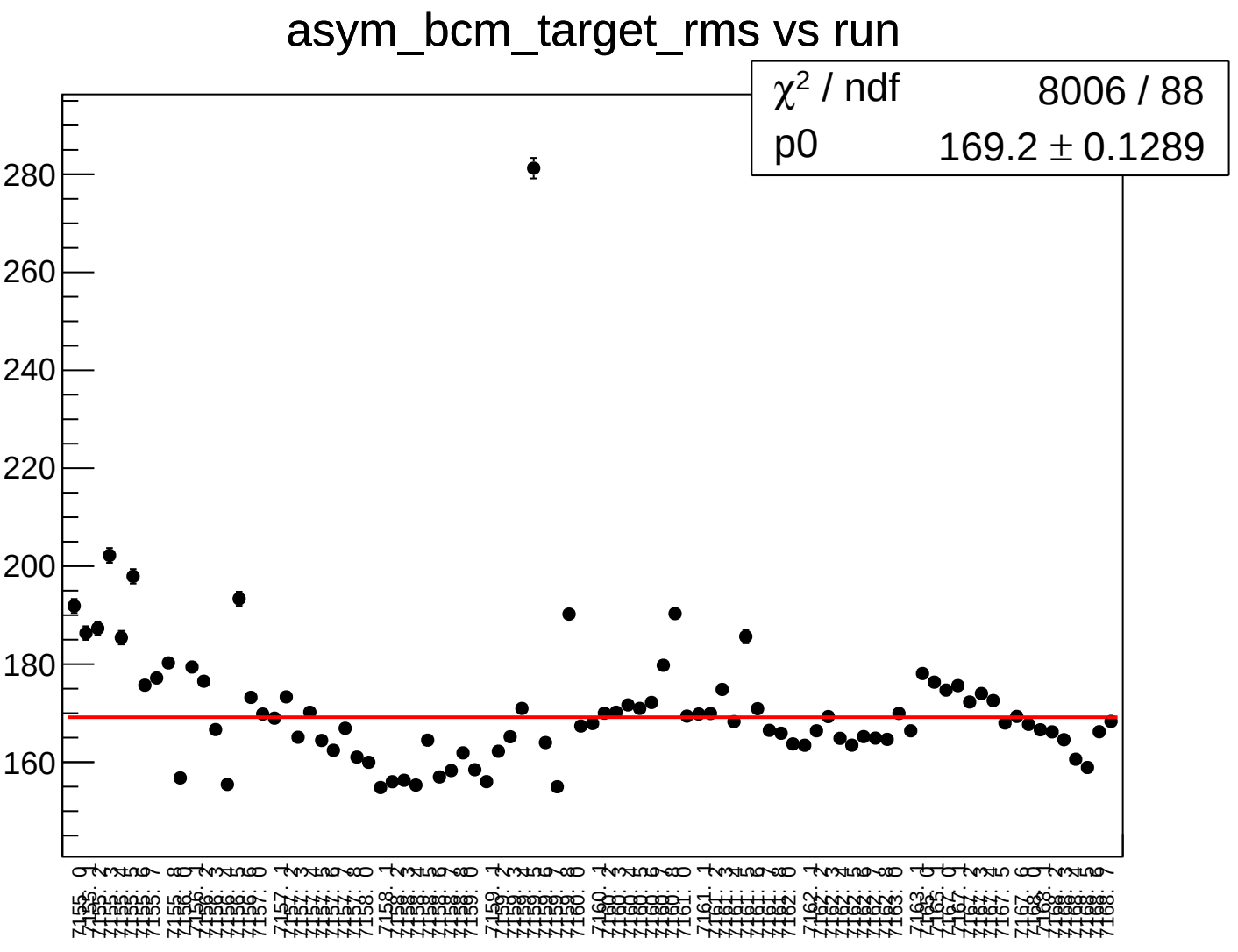

yield_bpm2i01WS_rms vs run
χ² / ndf 4649 / 88
p0 229.4 ± 0.1746
380
360
340
320
300
280
260
240
220
200

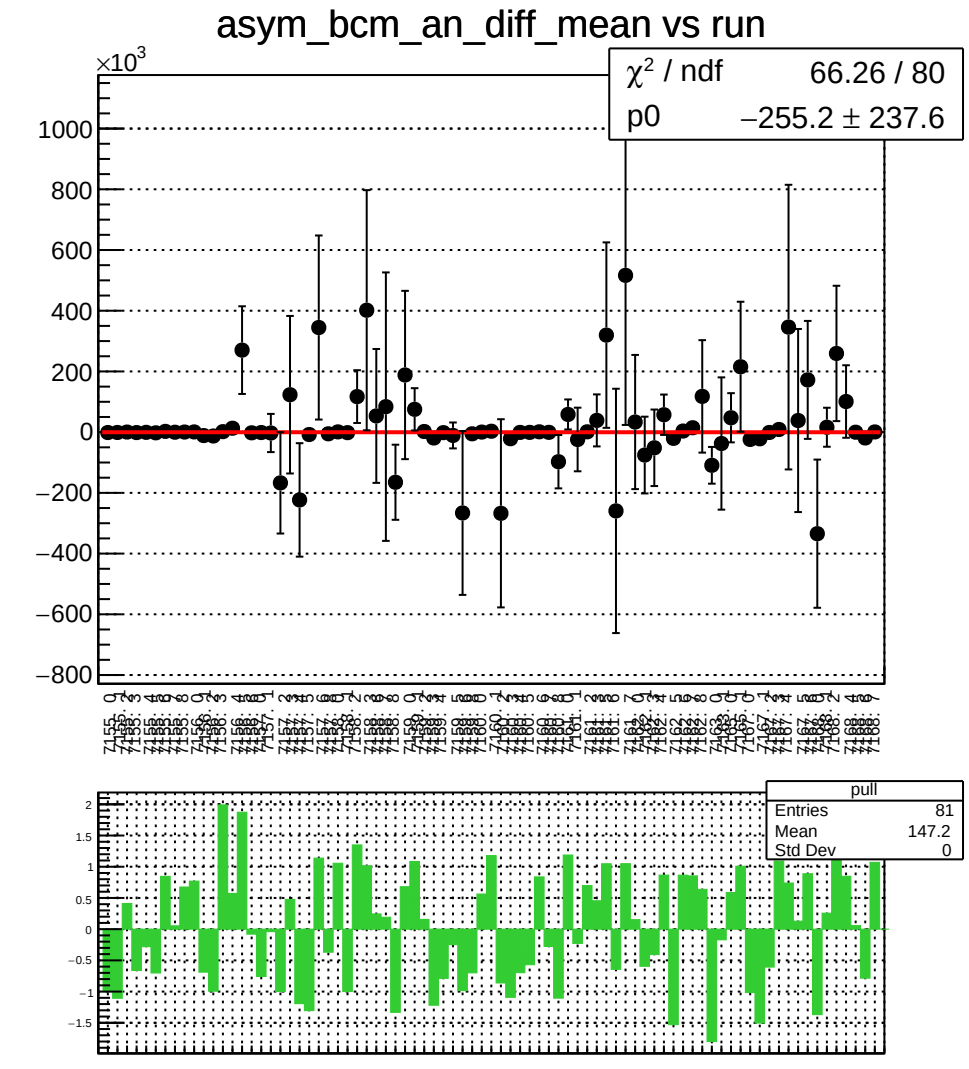

yield_bpm2i02WS_mean vs run
×10^3
184.5
184.4
184.3
184.2
184.1
184
183.9
183.8
183.7
χ² / ndf 2.849e+05 / 88
p0 1.841e+05 ± 0.2545
pull
Entries 89
Mean −1206
Std Dev 0
100
50
0
−50
−100
−150

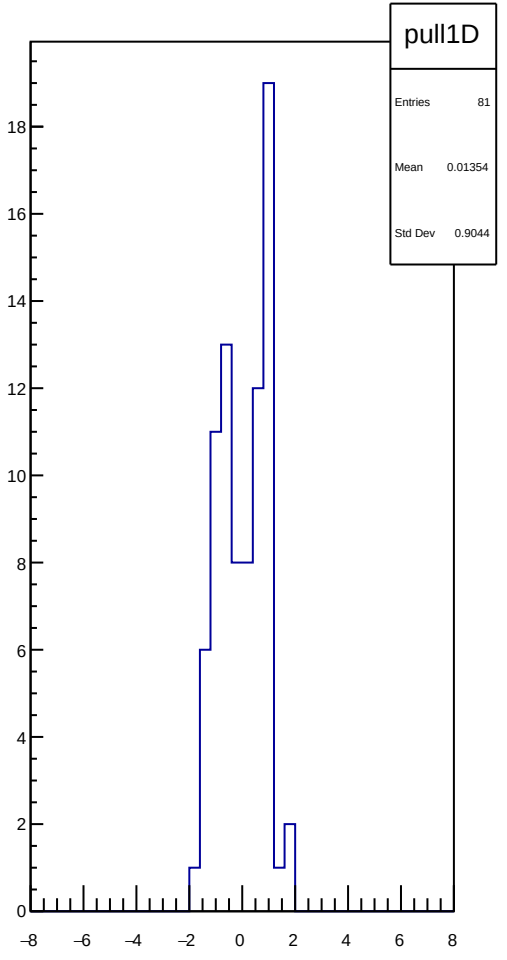

pull1D
Entries 89
Mean 1.314
Std Dev 3.479
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

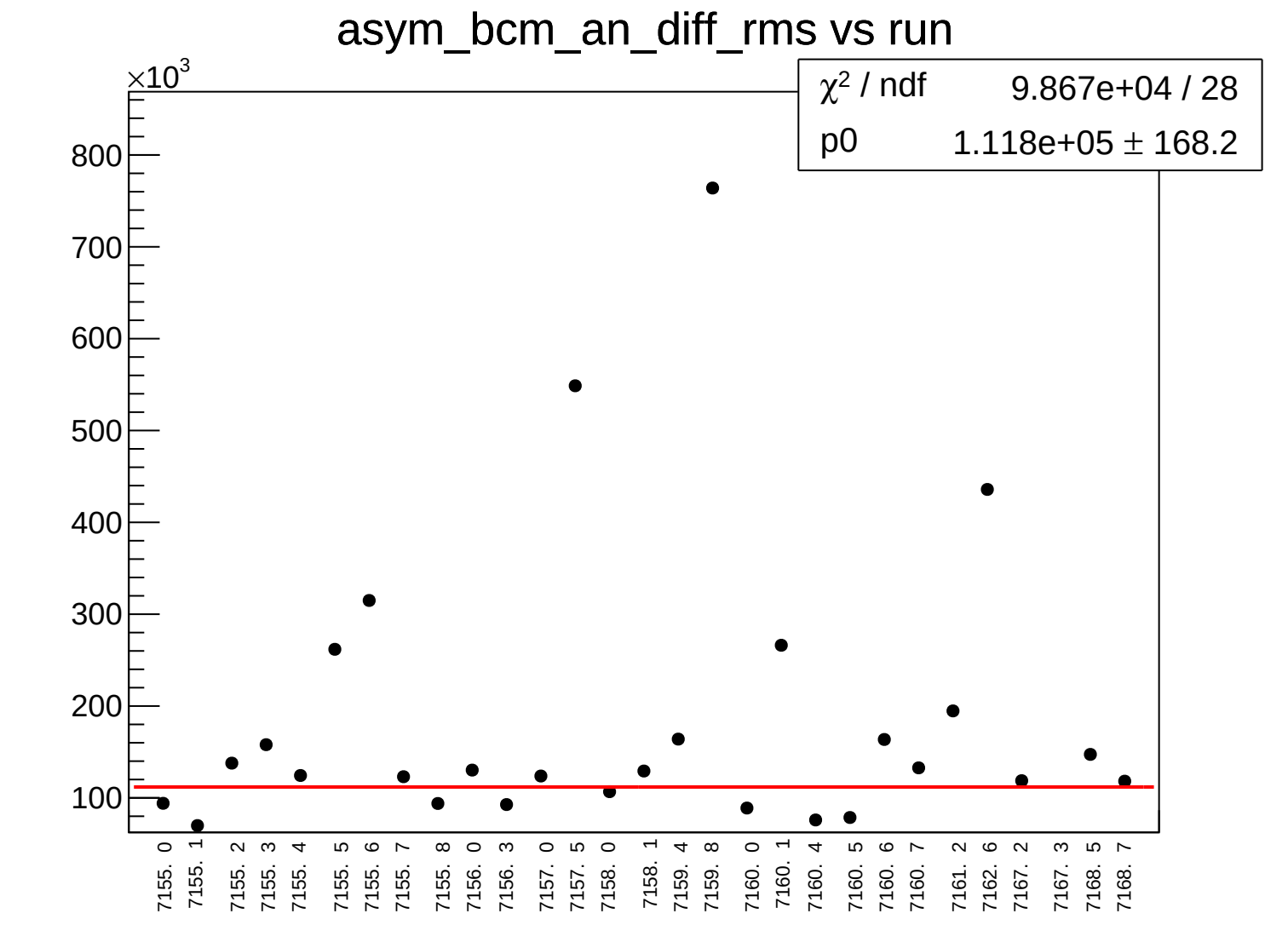

yield_bpm2i02WS_rms vs run
χ² / ndf 4562 / 88
p0 236.4 ± 0.18
380
360
340
320
300
280
260
240
220

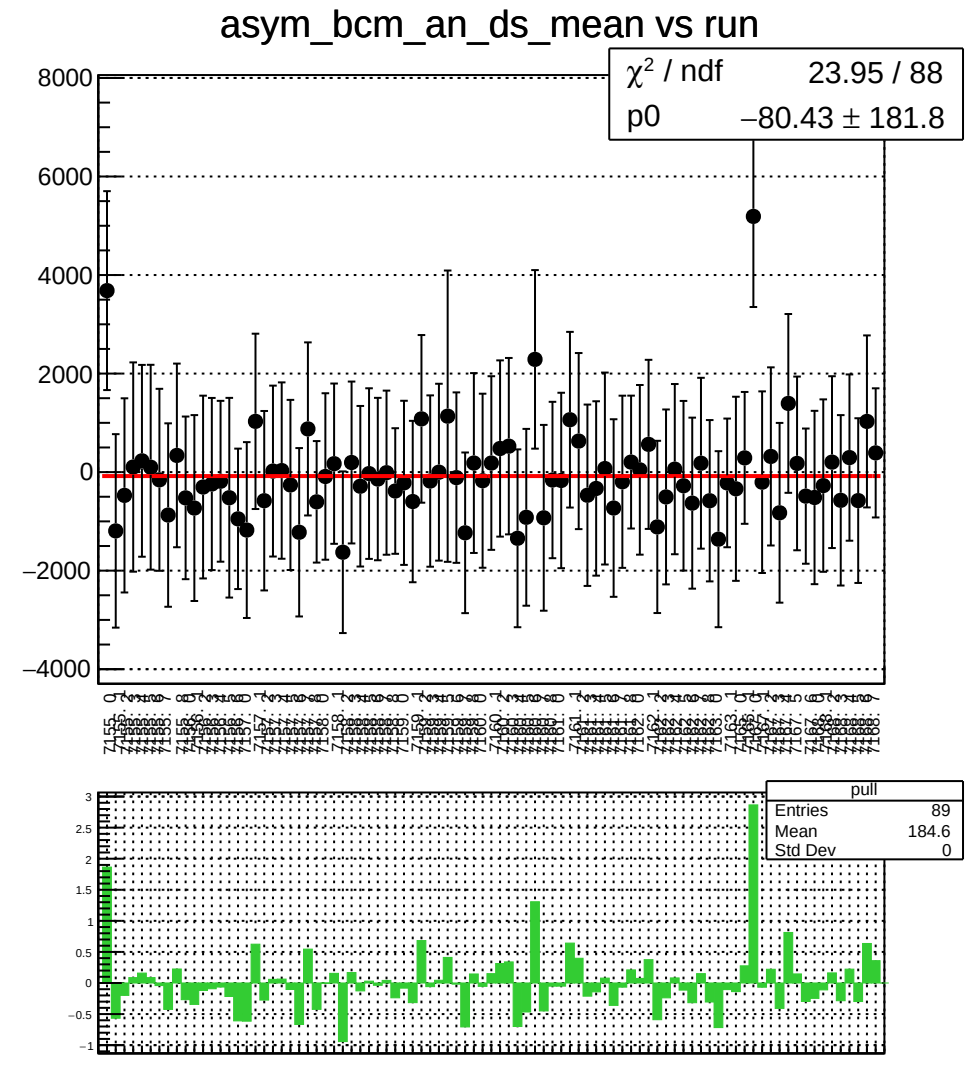

asym_bcm_target_mean vs run
χ² / ndf 21.29 / 88
p0 −54.66 ± 182.3
pull
Entries 89
Mean 242.6
Std Dev 0
pull1D
Entries 89
Mean 0.006375
Std Dev 0.489

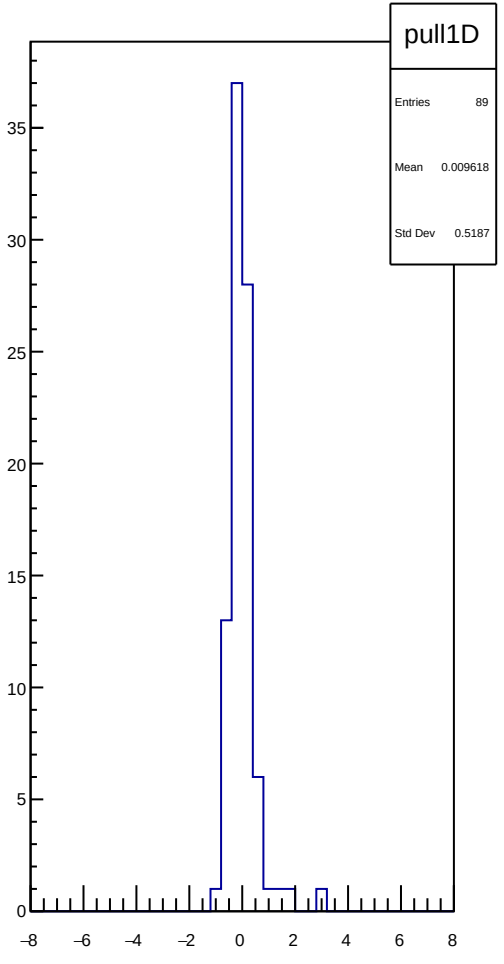

asym_bcm_target_rms vs run
χ² / ndf 8006 / 88
p0 169.2 ± 0.1289
280
260
240
220
200
180
160

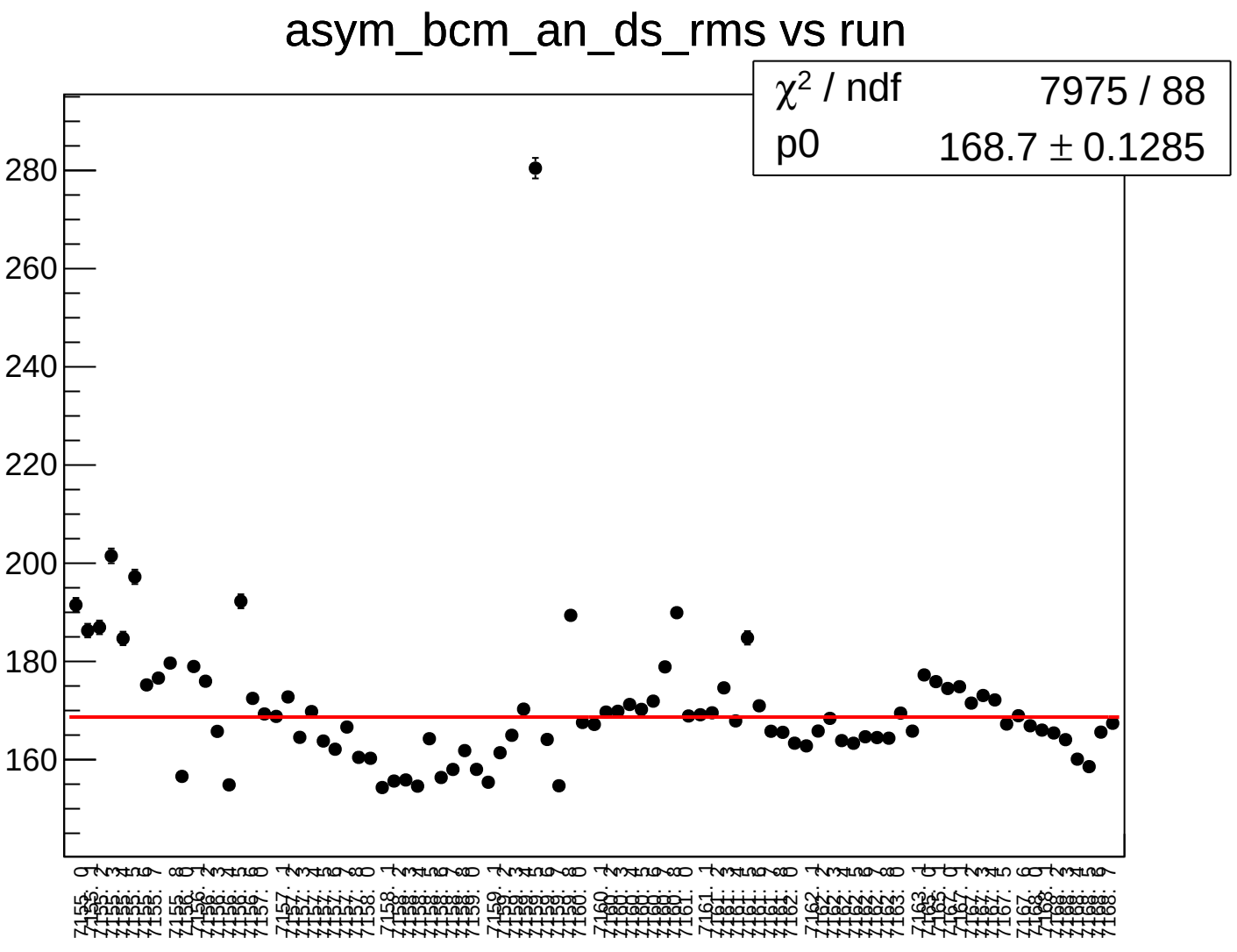

asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 66.26 / 80
p0 −255.2 ± 237.6
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 81
Mean 147.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

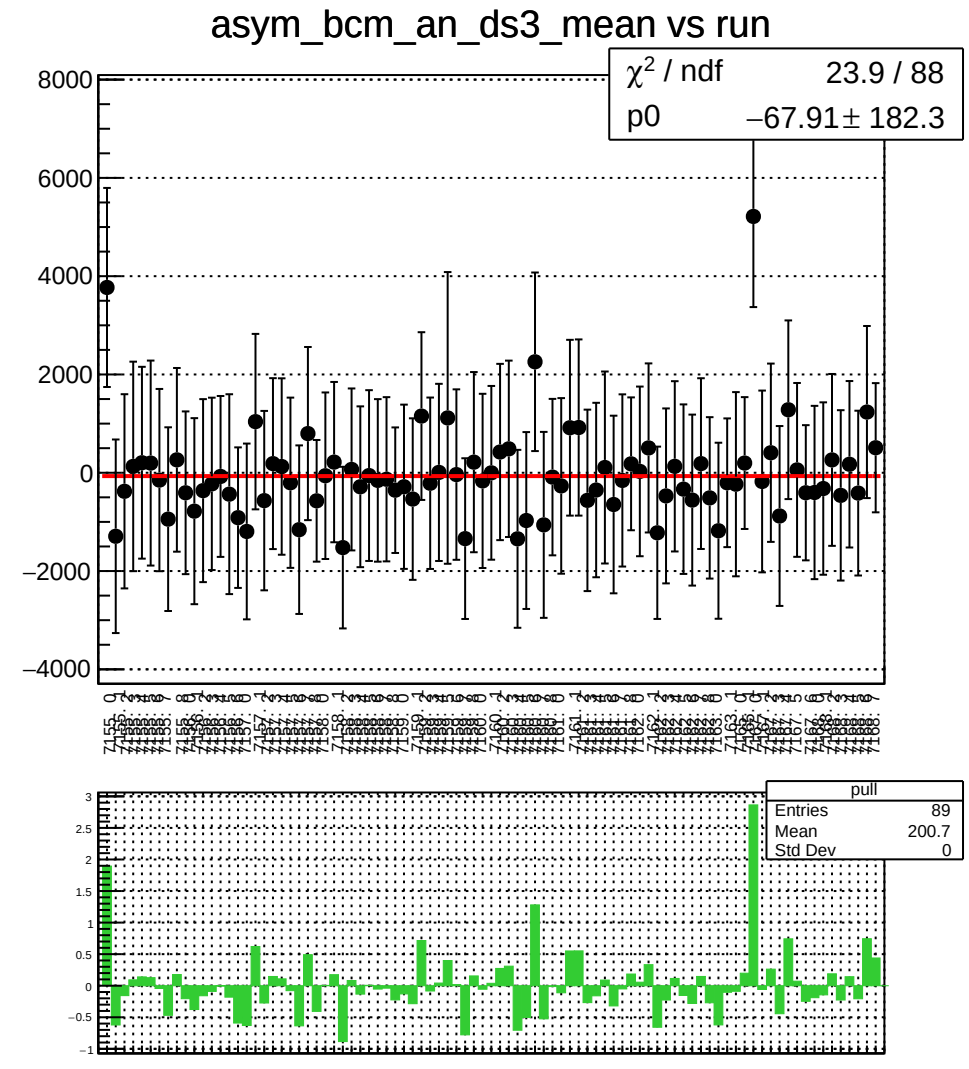

pull1D
Entries 81
Mean 0.01354
Std Dev 0.9044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

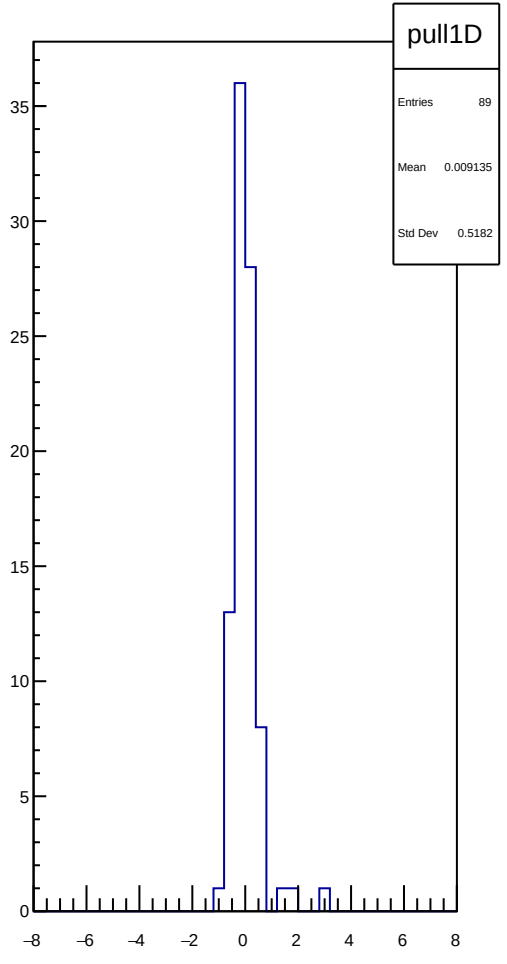

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 9.867e+04 / 28
p0 1.118e+05 ± 168.2
800
700
600
500
400
300
200
100
7155. 0
7155. 1
7155. 2
7155. 3
7155. 4
7155. 5
7155. 6
7155. 7
7155. 8
7156. 0
7156. 3
7157. 0
7157. 5
7158. 0
7158. 1
7159. 4
7159. 8
7160. 0
7160. 1
7160. 4
7160. 5
7160. 6
7160. 7
7161. 2
7162. 6
7167. 2
7167. 3
7168. 5
7168. 7

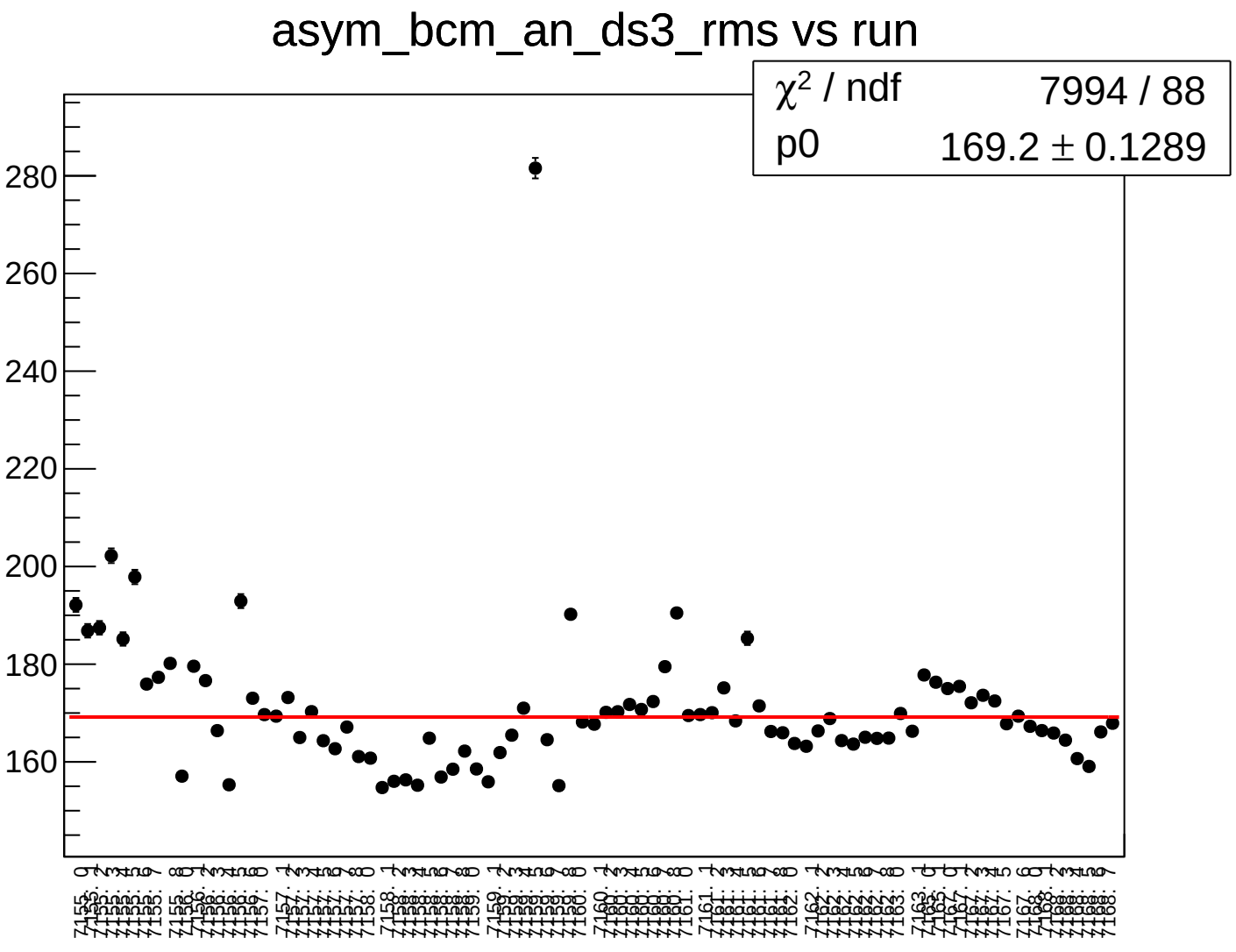

asym_bcm_an_ds_mean vs run
χ² / ndf 23.95 / 88
p0 −80.43 ± 181.8
pull
Entries 89
Mean 184.6
Std Dev 0

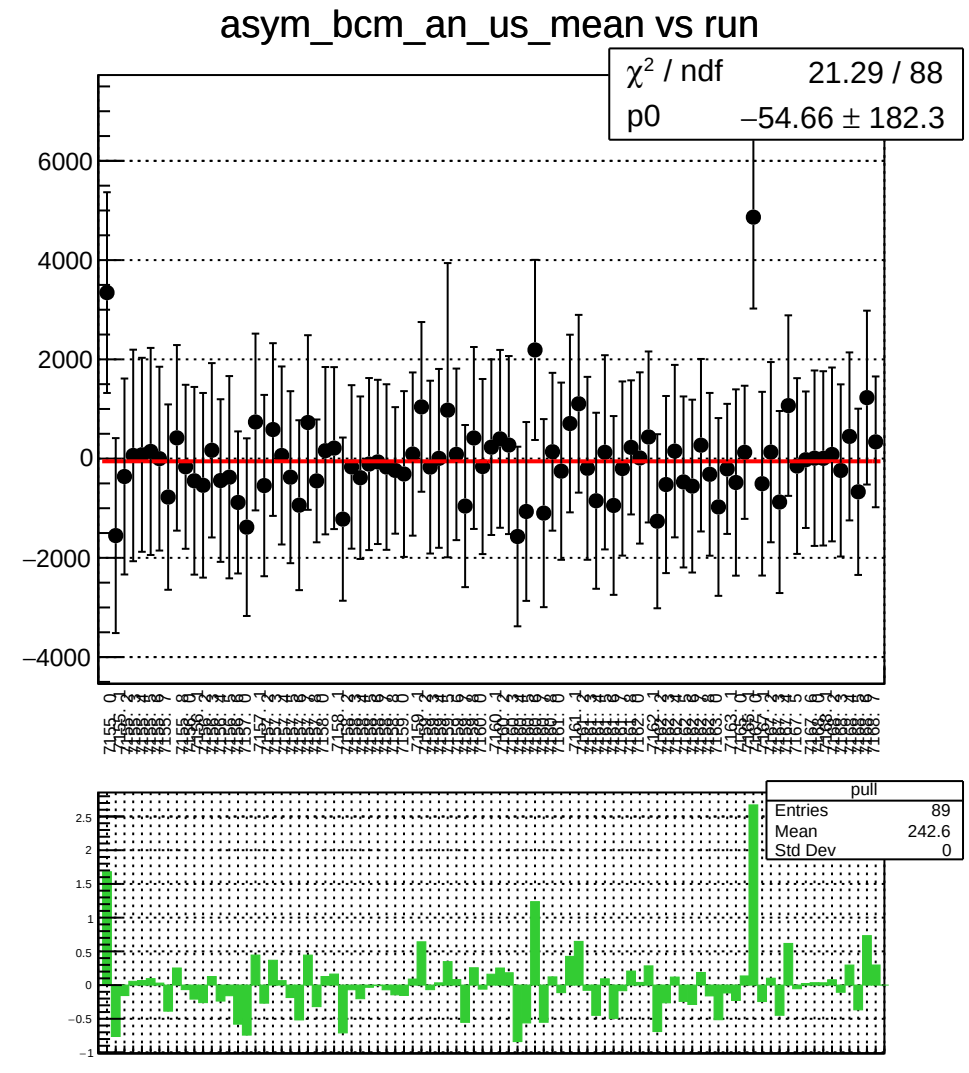

pull1D
Entries 89
Mean 0.009618
Std Dev 0.5187

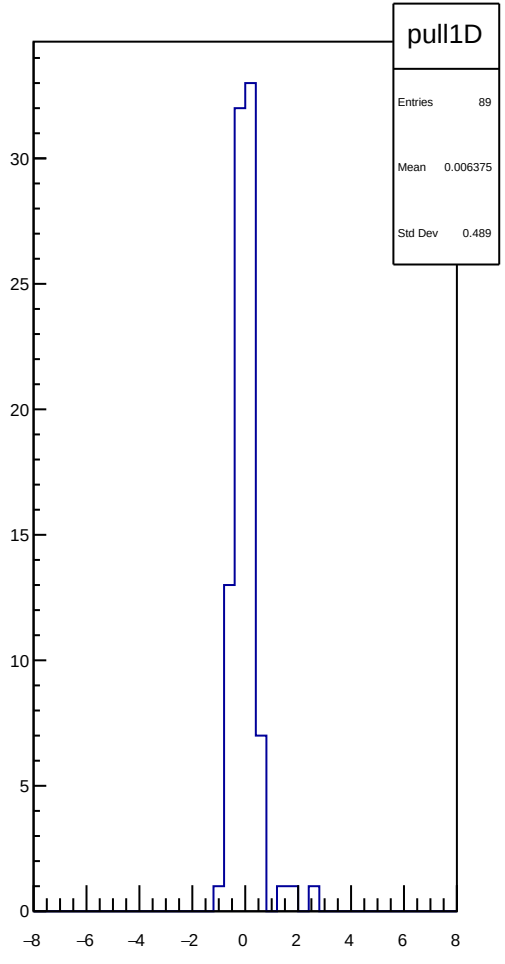

asym_bcm_an_ds_rms vs run
χ^2 / ndf 7975 / 88
p0 168.7 ± 0.1285
280
260
240
220
200
180
160

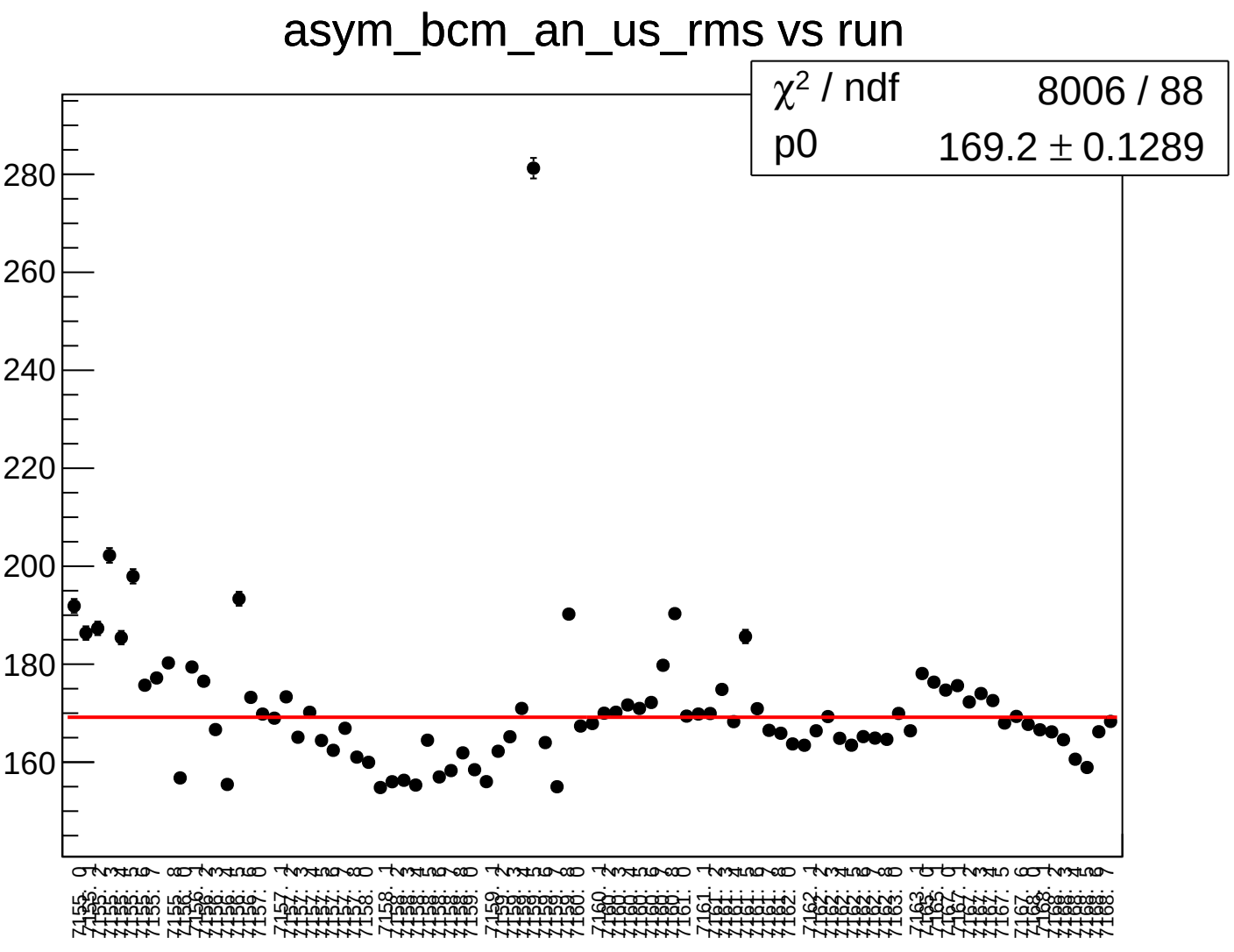

asym_bcm_an_ds3_mean vs run
χ² / ndf 23.9 / 88
p0 −67.91± 182.3
pull
Entries 89
Mean 200.7
Std Dev 0

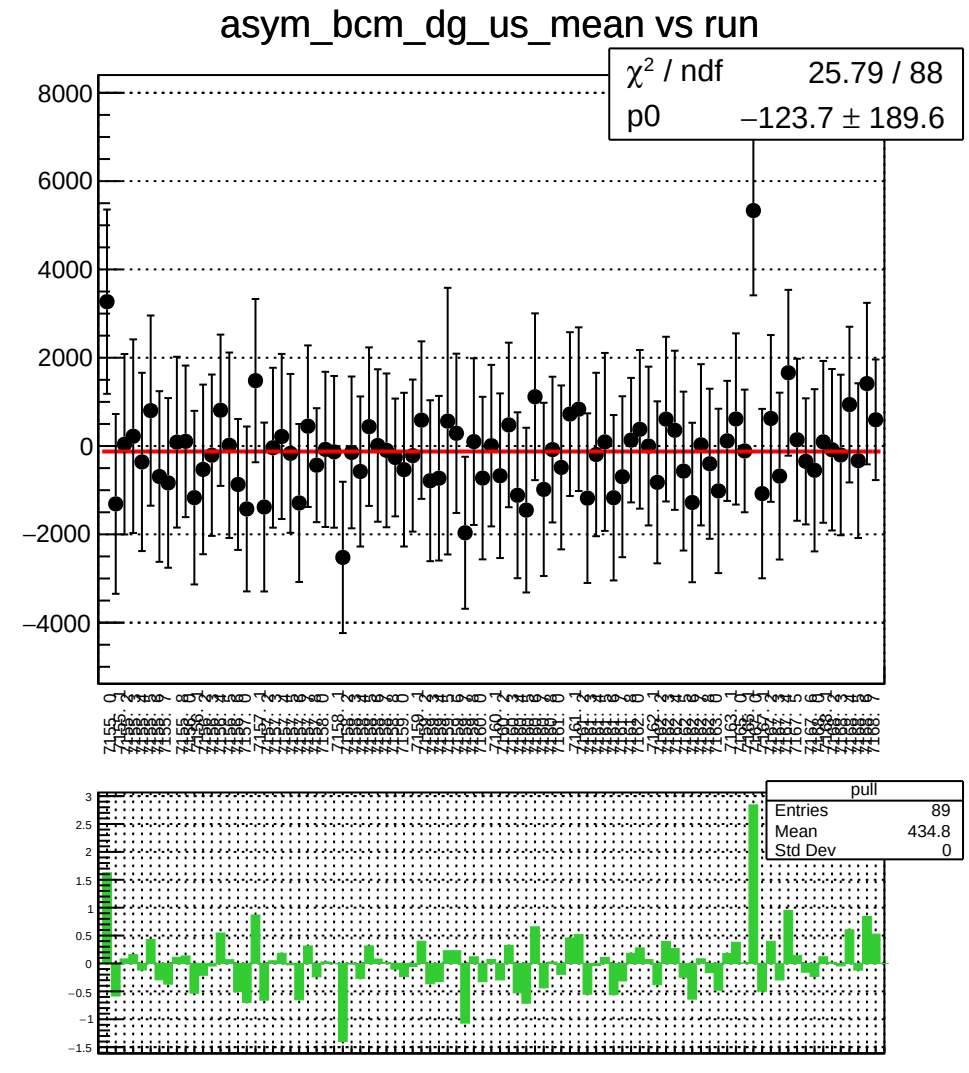

pull1D
Entries 89
Mean 0.009135
Std Dev 0.5182

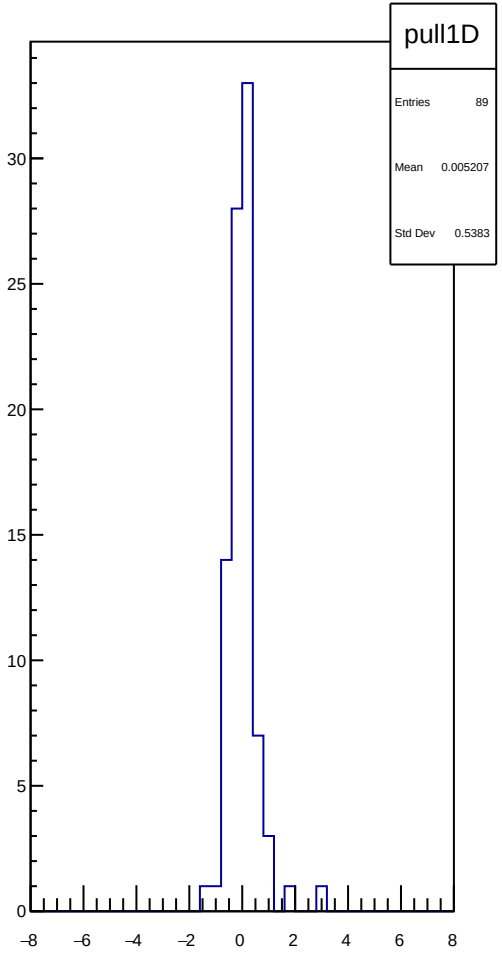

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 7994 / 88
p0 169.2 ± 0.1289
280
260
240
220
200
180
160

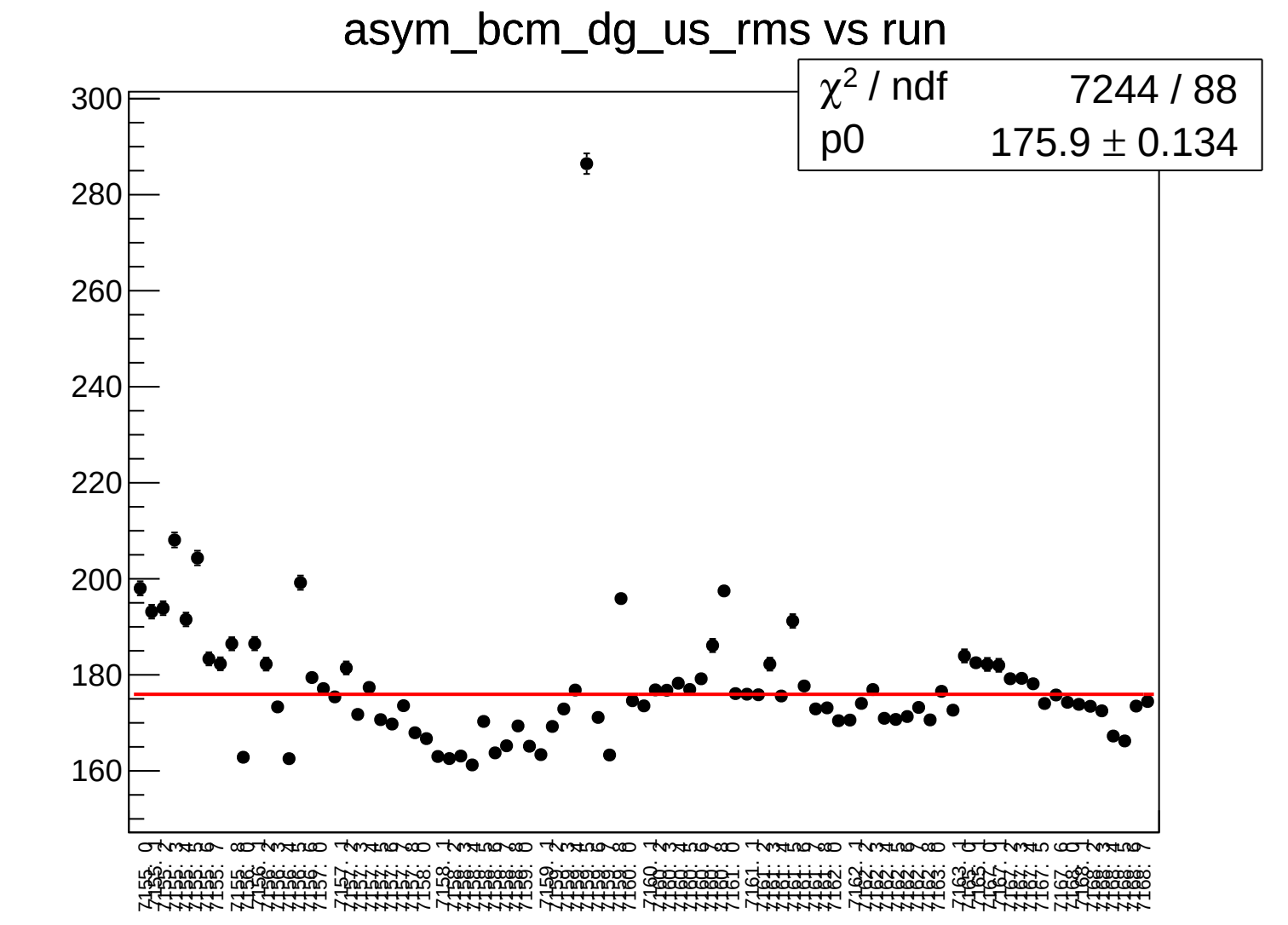

asym_bcm_an_us_mean vs run
χ² / ndf 21.29 / 88
p0 −54.66 ± 182.3
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 242.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

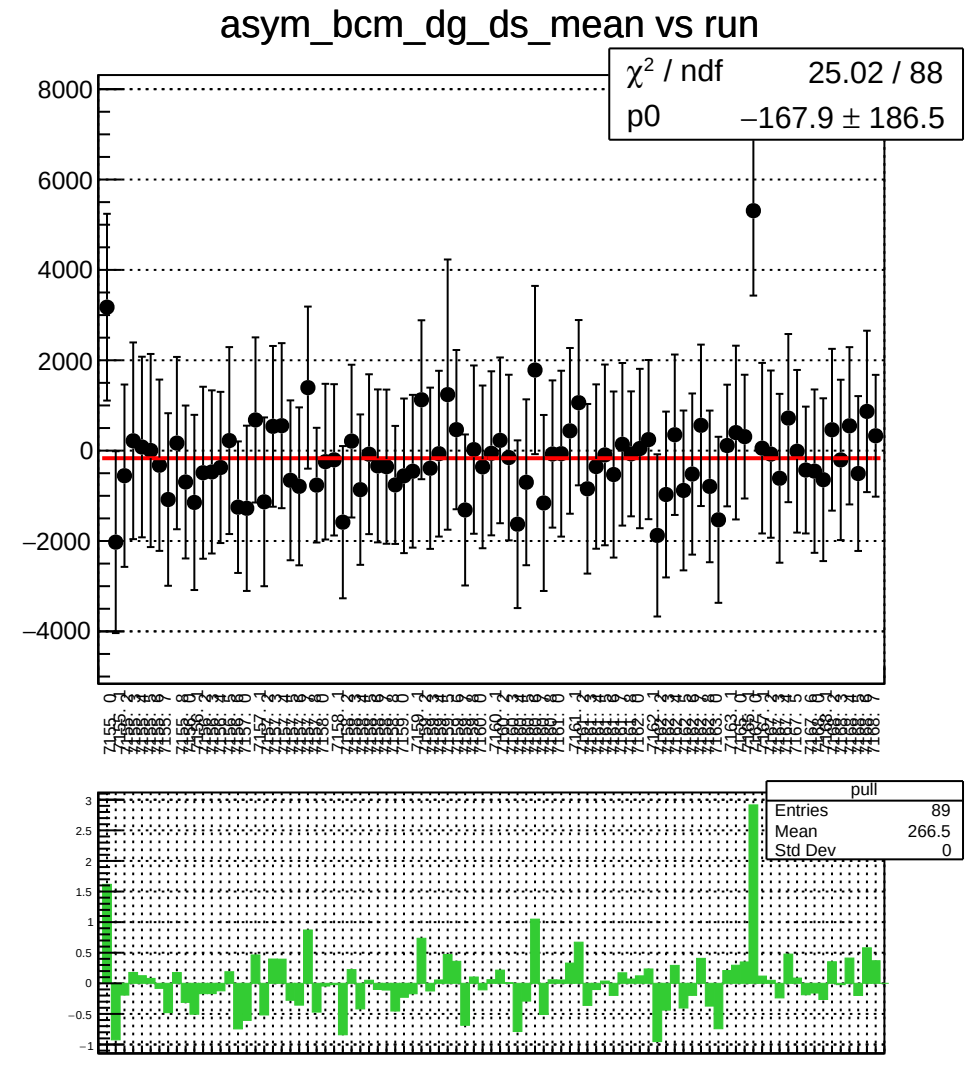

pull1D
Entries 89
Mean 0.006375
Std Dev 0.489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

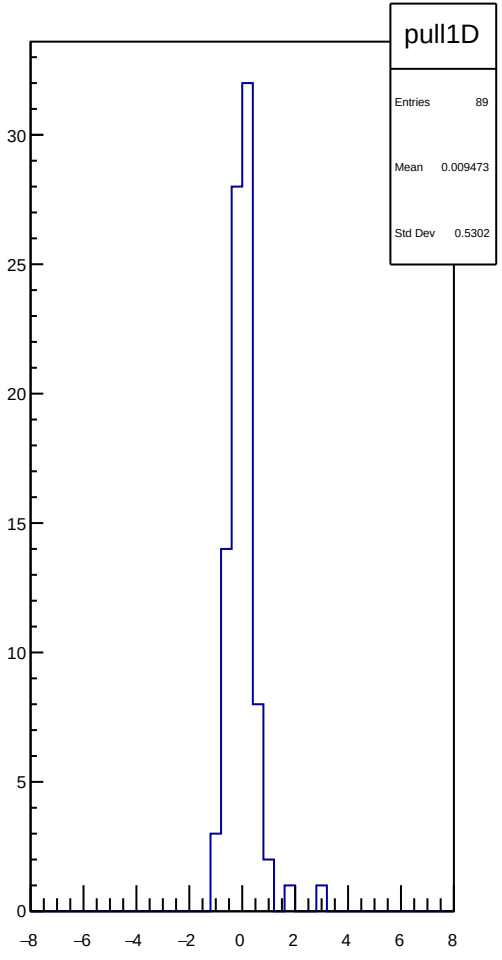

asym_bcm_an_us_rms vs run
χ^2 / ndf 8006 / 88
p0 169.2 ± 0.1289
280
260
240
220
200
180
160

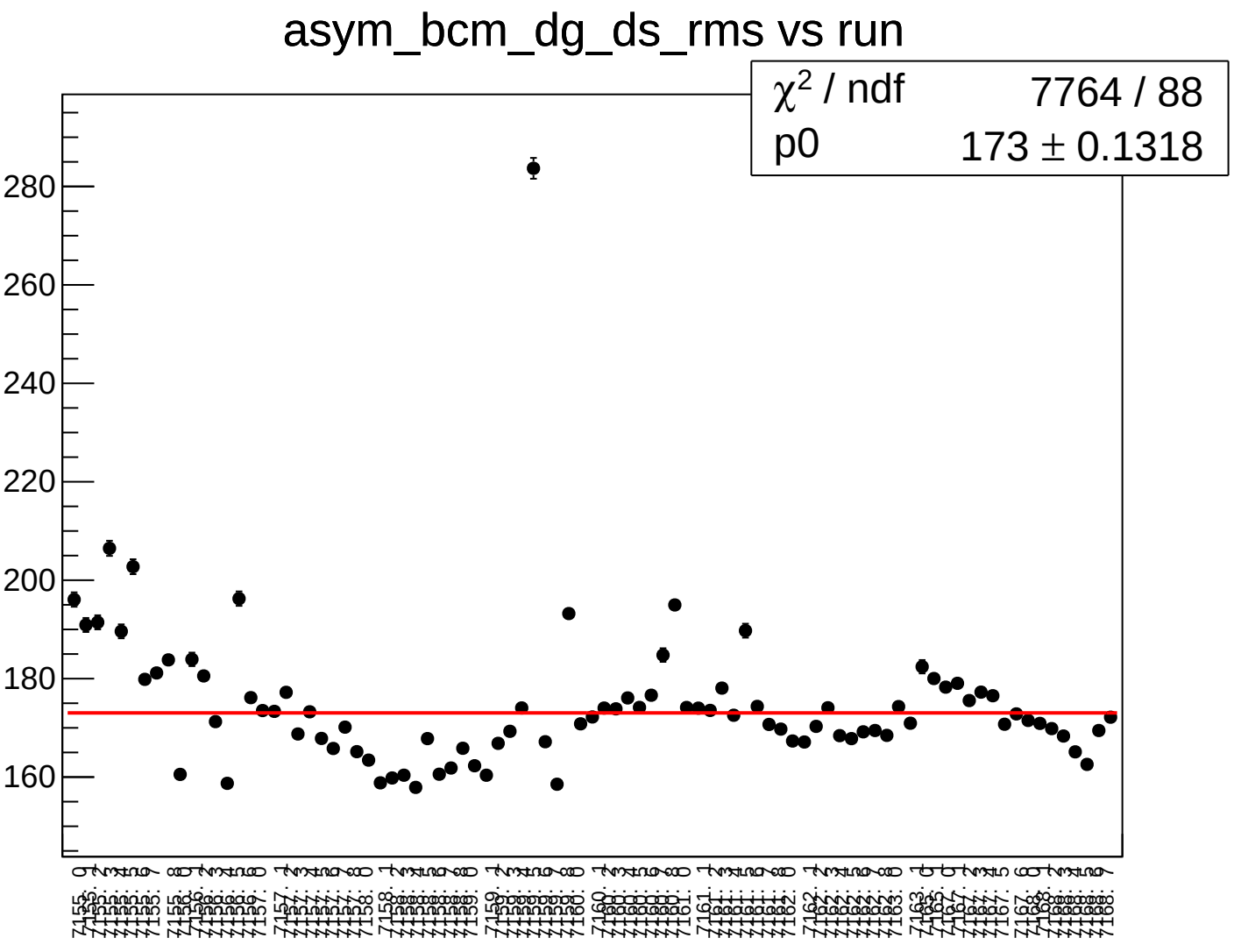

asym_bcm_dg_us_mean vs run
χ² / ndf 25.79 / 88
p0 −123.7 ± 189.6
pull
Entries 89
Mean 434.8
Std Dev 0

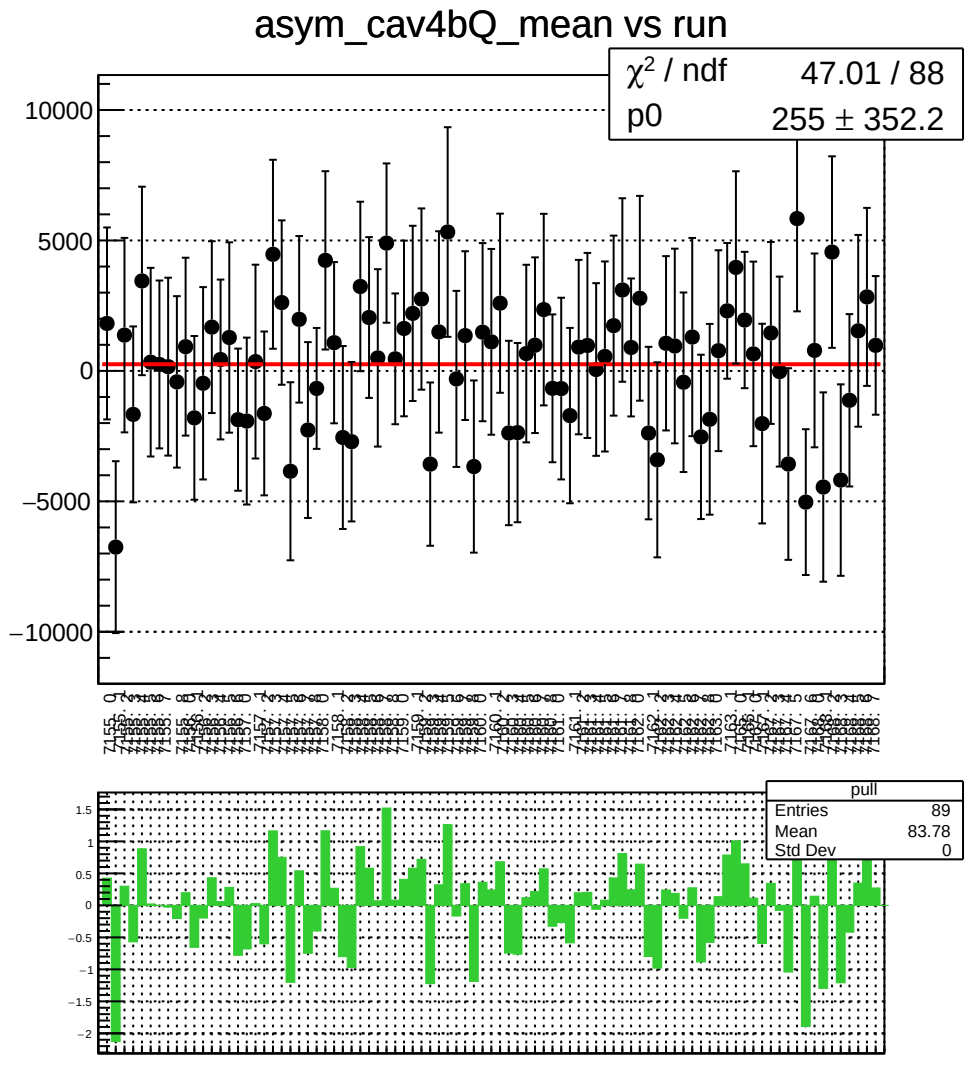

pull1D
Entries 89
Mean 0.005207
Std Dev 0.5383

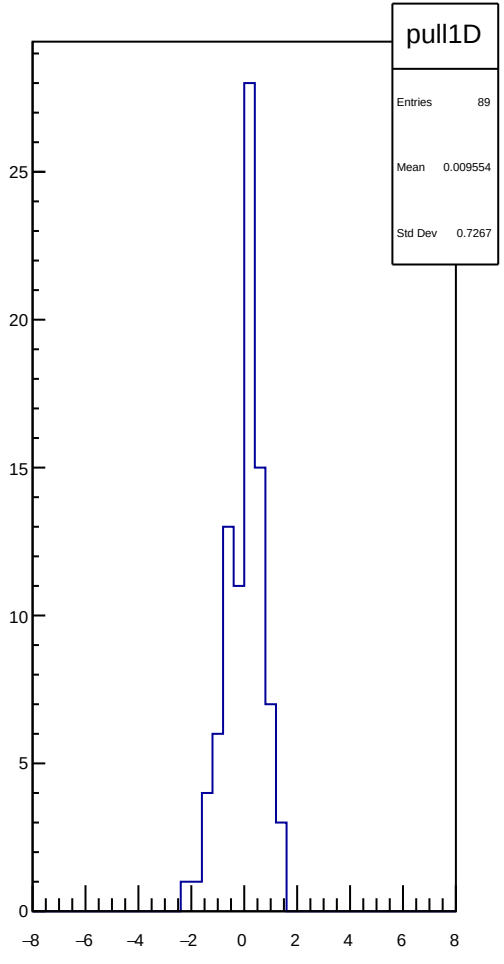

asym_bcm_dg_us_rms vs run
χ² / ndf 7244 / 88
p0 175.9 ± 0.134
300
280
260
240
220
200
180
160

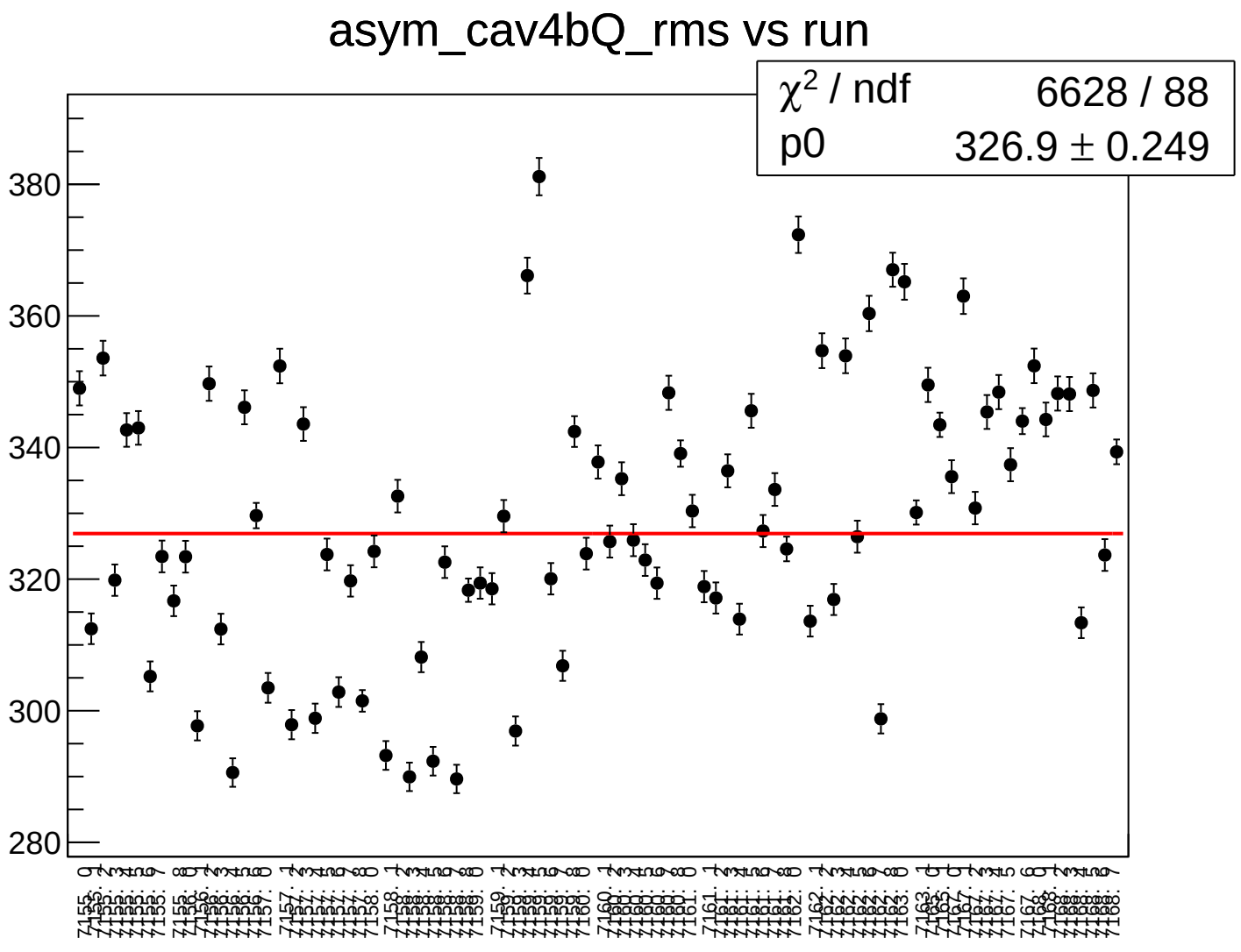

asym_bcm_dg_ds_mean vs run
χ² / ndf 25.02 / 88
p0 −167.9 ± 186.5
pull
Entries 89
Mean 266.5
Std Dev 0

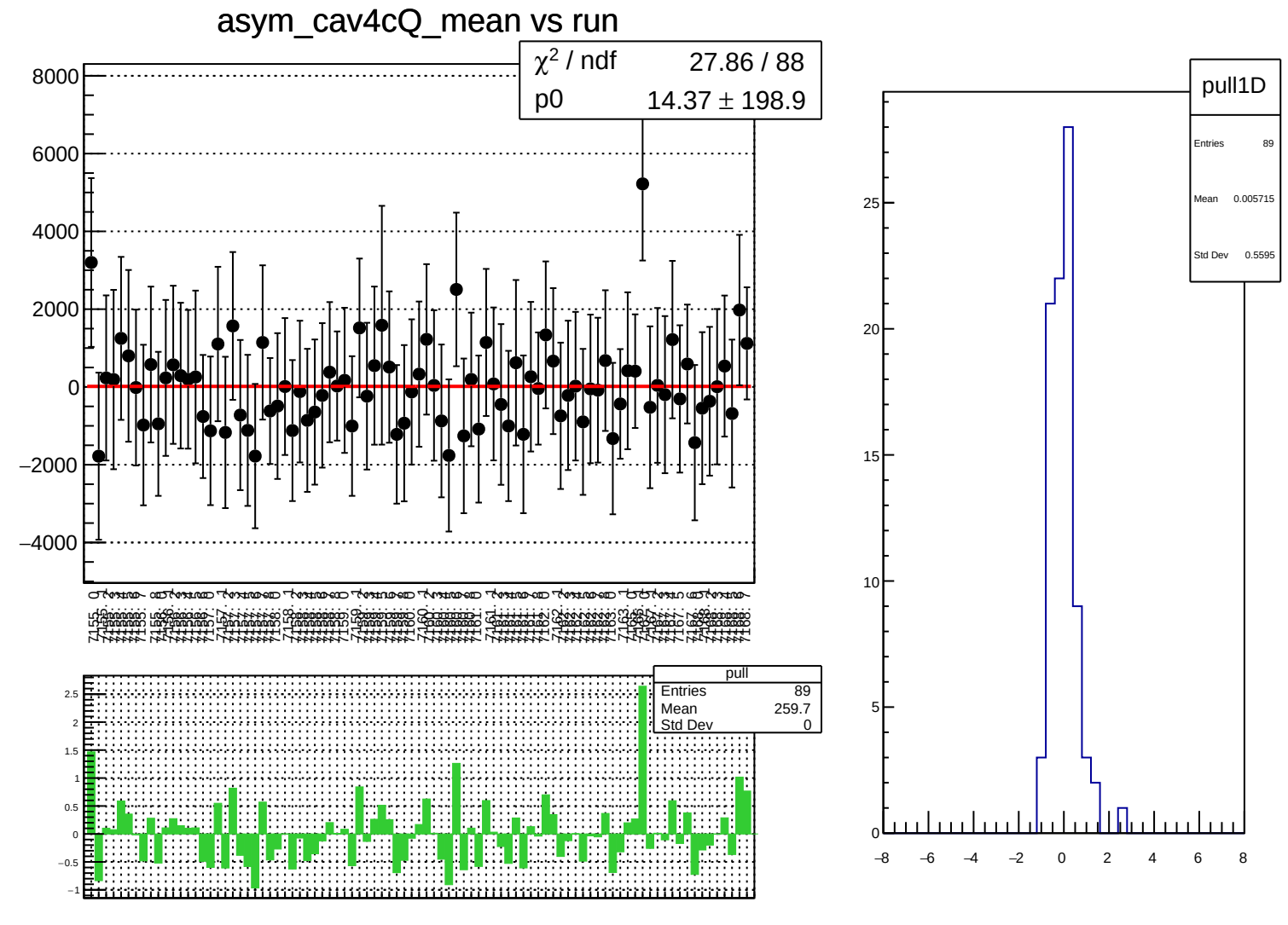

pull1D
Entries 89
Mean 0.009473
Std Dev 0.5302

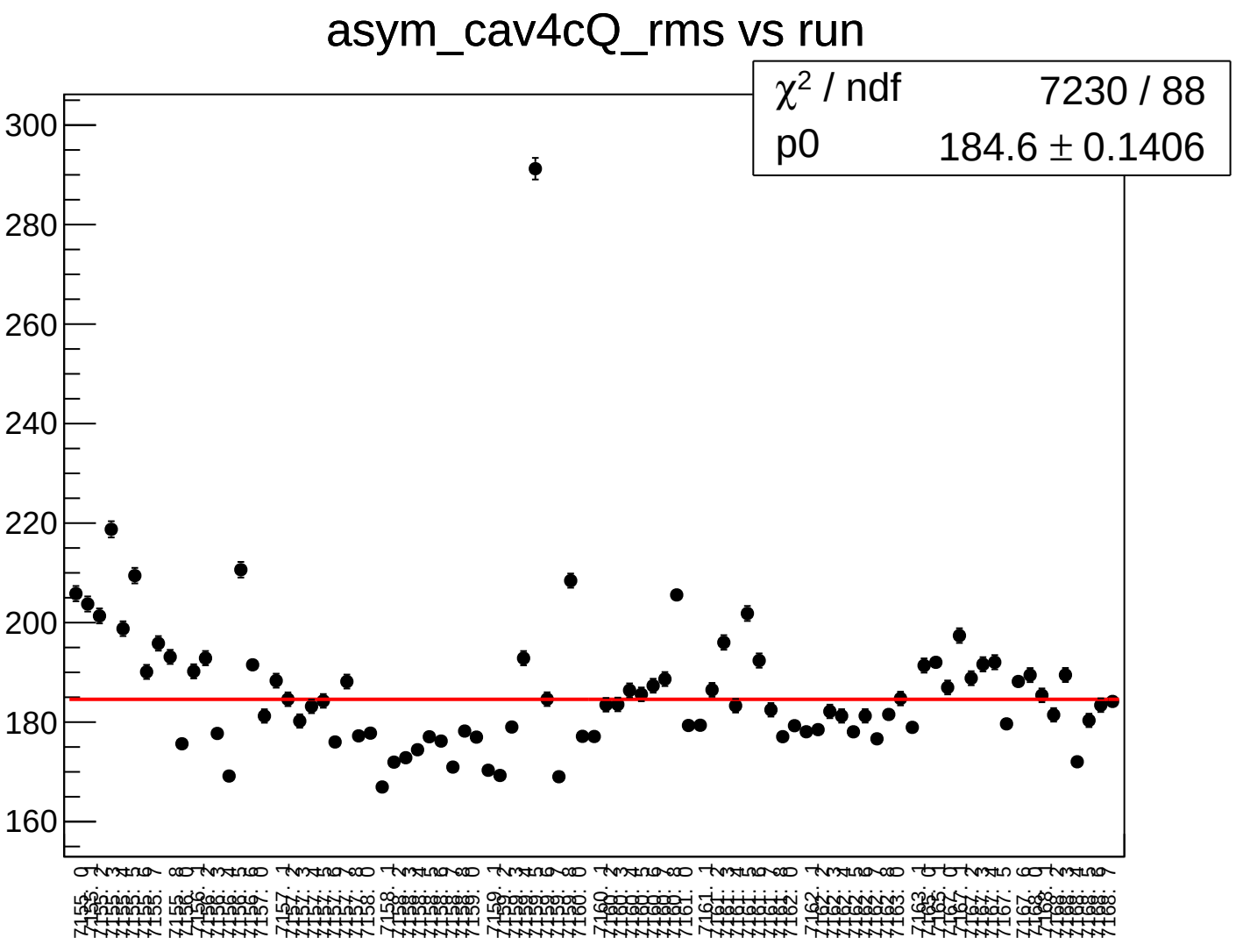

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 7764 / 88
p0 173 ± 0.1318
280
260
240
220
200
180
160

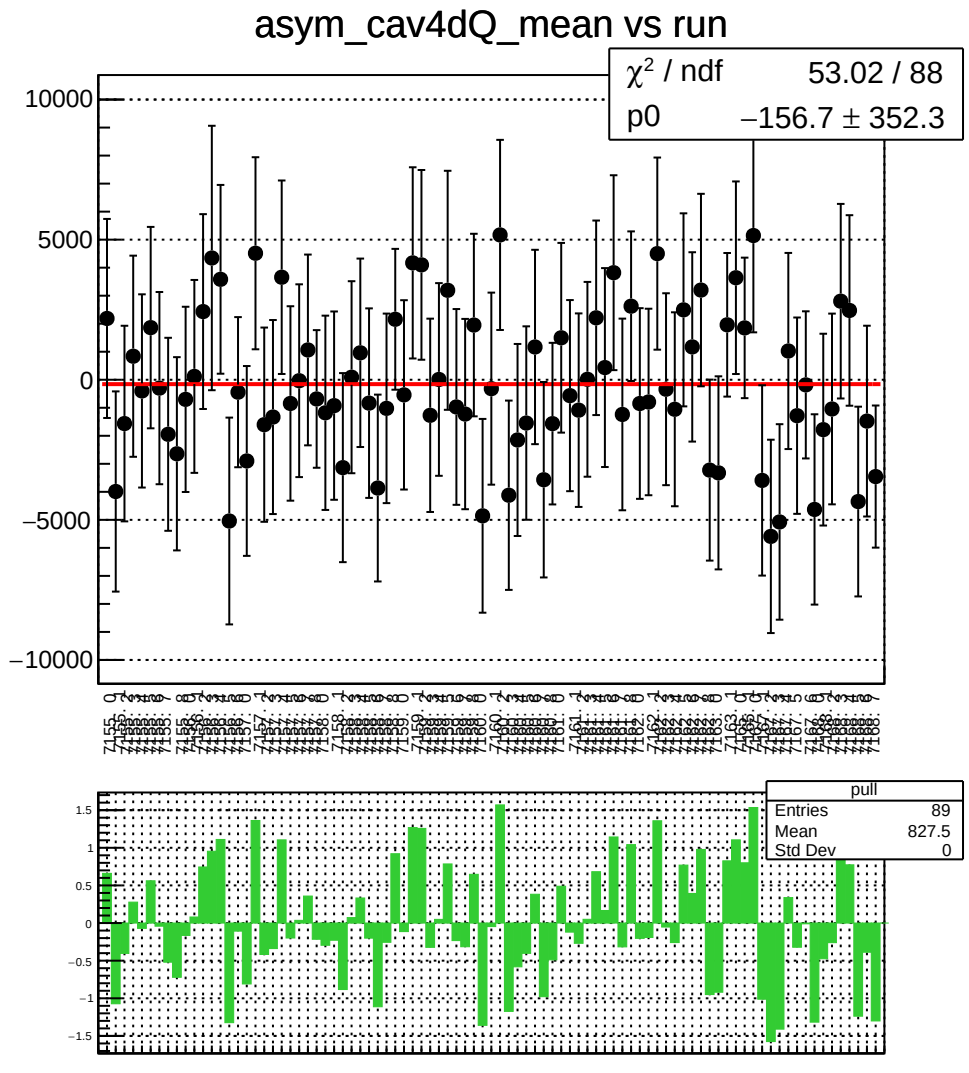

asym_cav4bQ_mean vs run
χ² / ndf 47.01 / 88
p0 255 ± 352.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 83.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

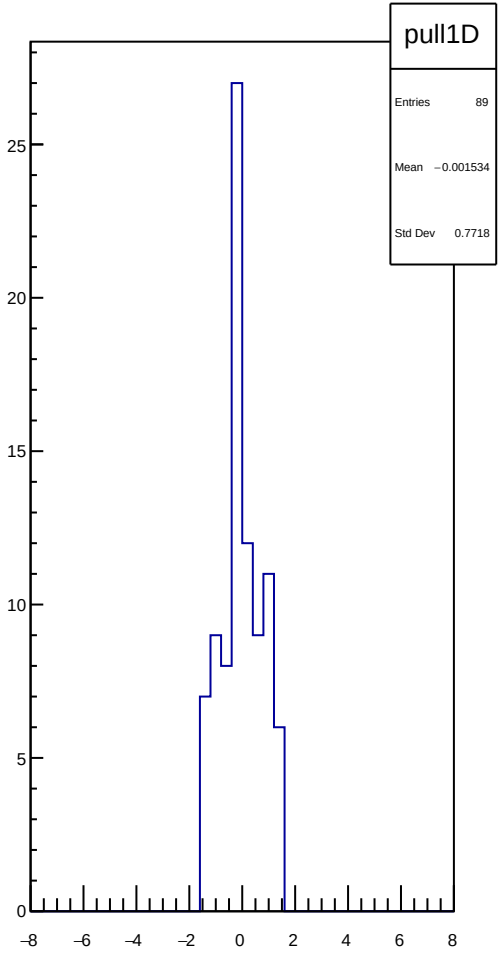

pull1D
Entries 89
Mean 0.009554
Std Dev 0.7267
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

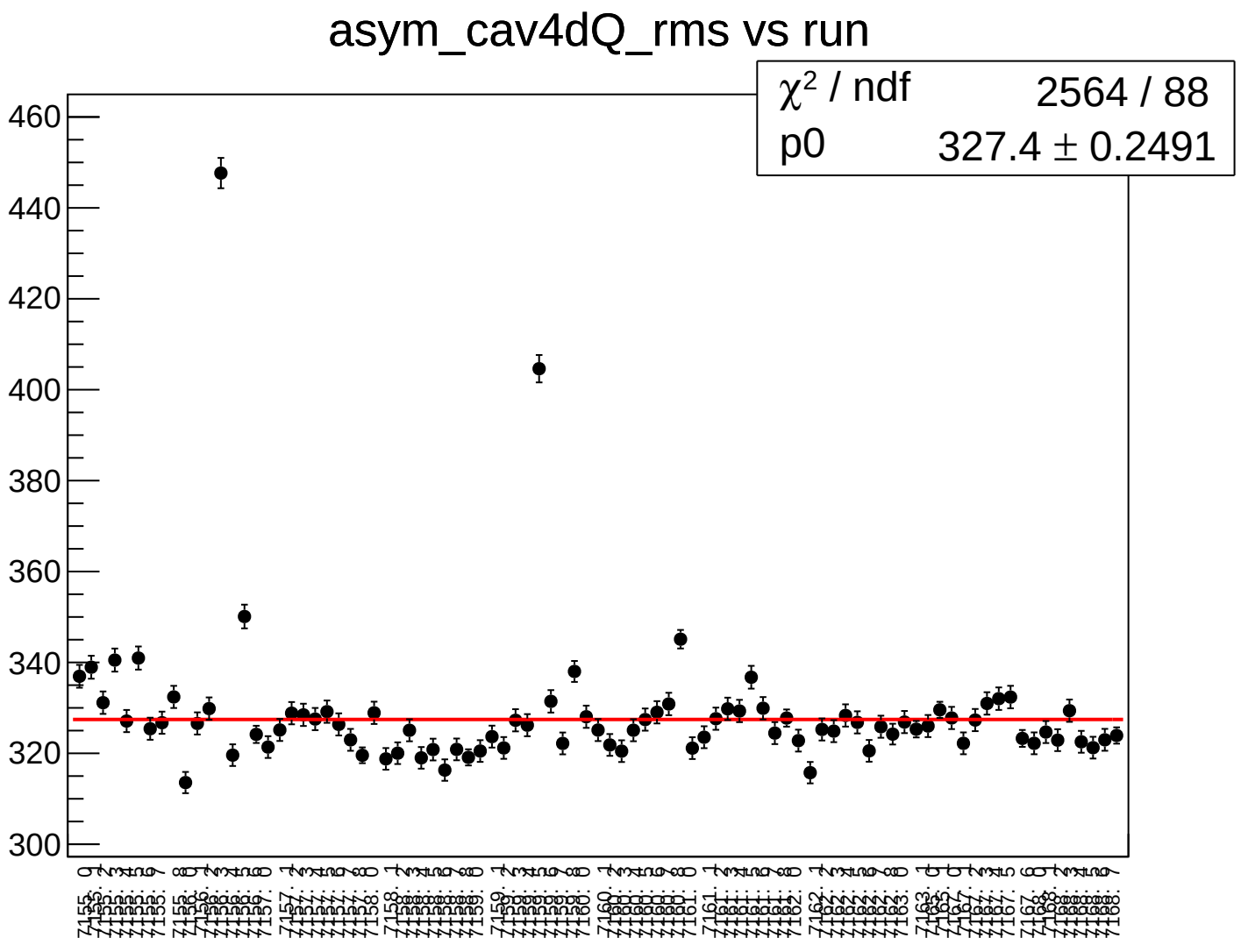

asym_cav4bQ_rms vs run
χ² / ndf 6628 / 88
p0 326.9 ± 0.249
380
360
340
320
300
280

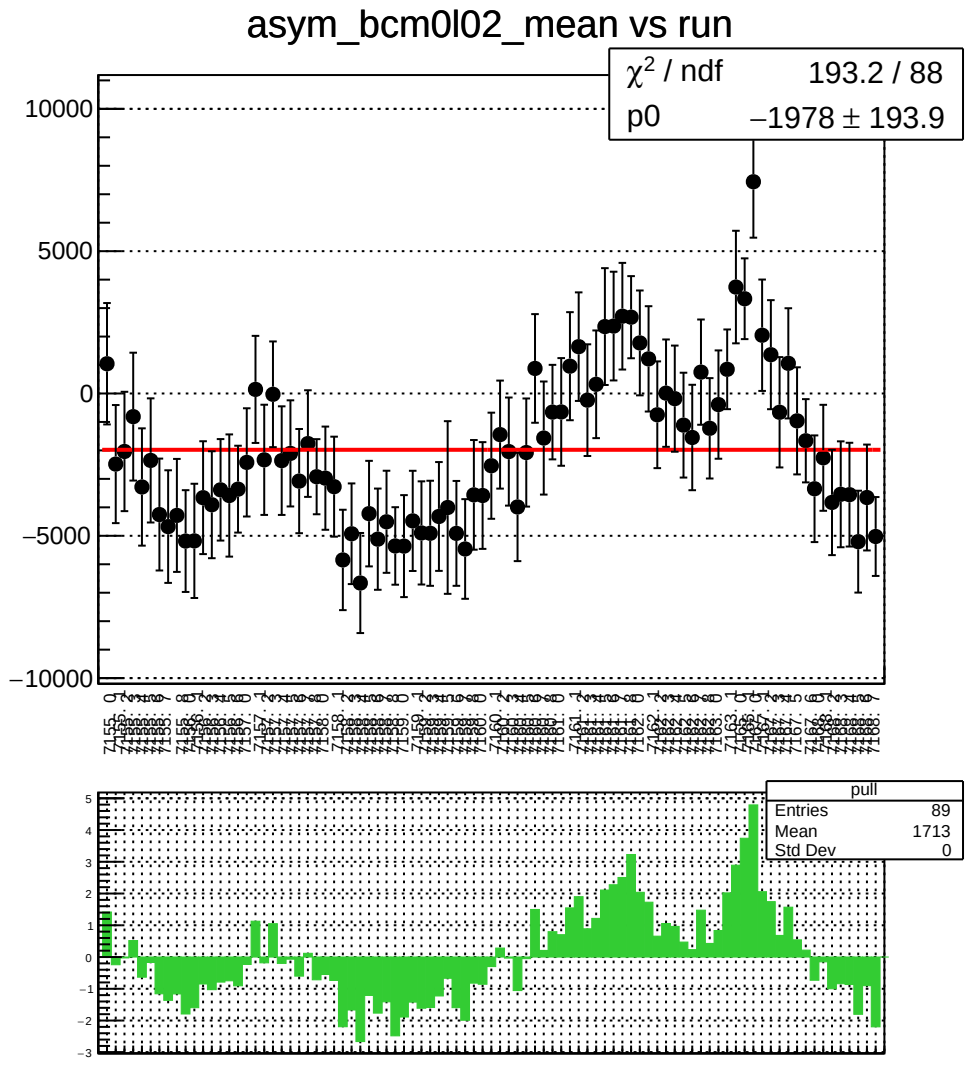

asym_cav4cQ_mean vs run
χ² / ndf 27.86 / 88
p0 14.37 ± 198.9
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 259.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.005715
Std Dev 0.5595
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

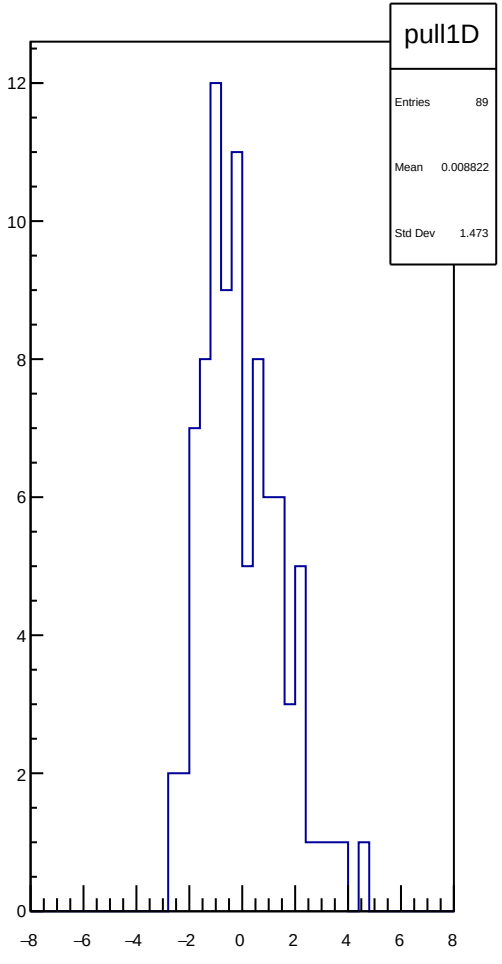

asym_cav4cQ_rms vs run
χ² / ndf 7230 / 88
p0 184.6 ± 0.1406
300
280
260
240
220
200
180
160

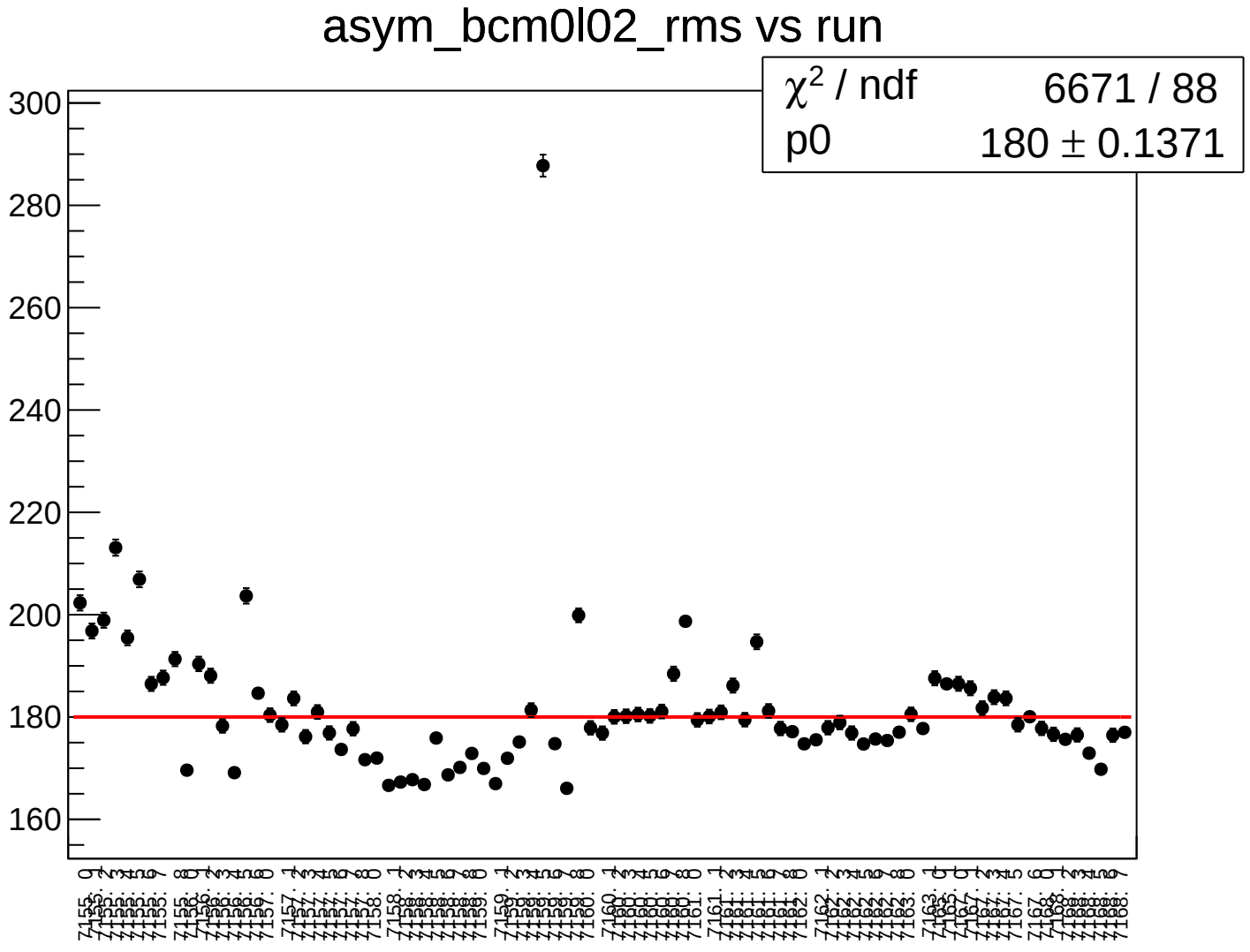

asym_cav4dQ_mean vs run
χ² / ndf 53.02 / 88
p0 −156.7 ± 352.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 827.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

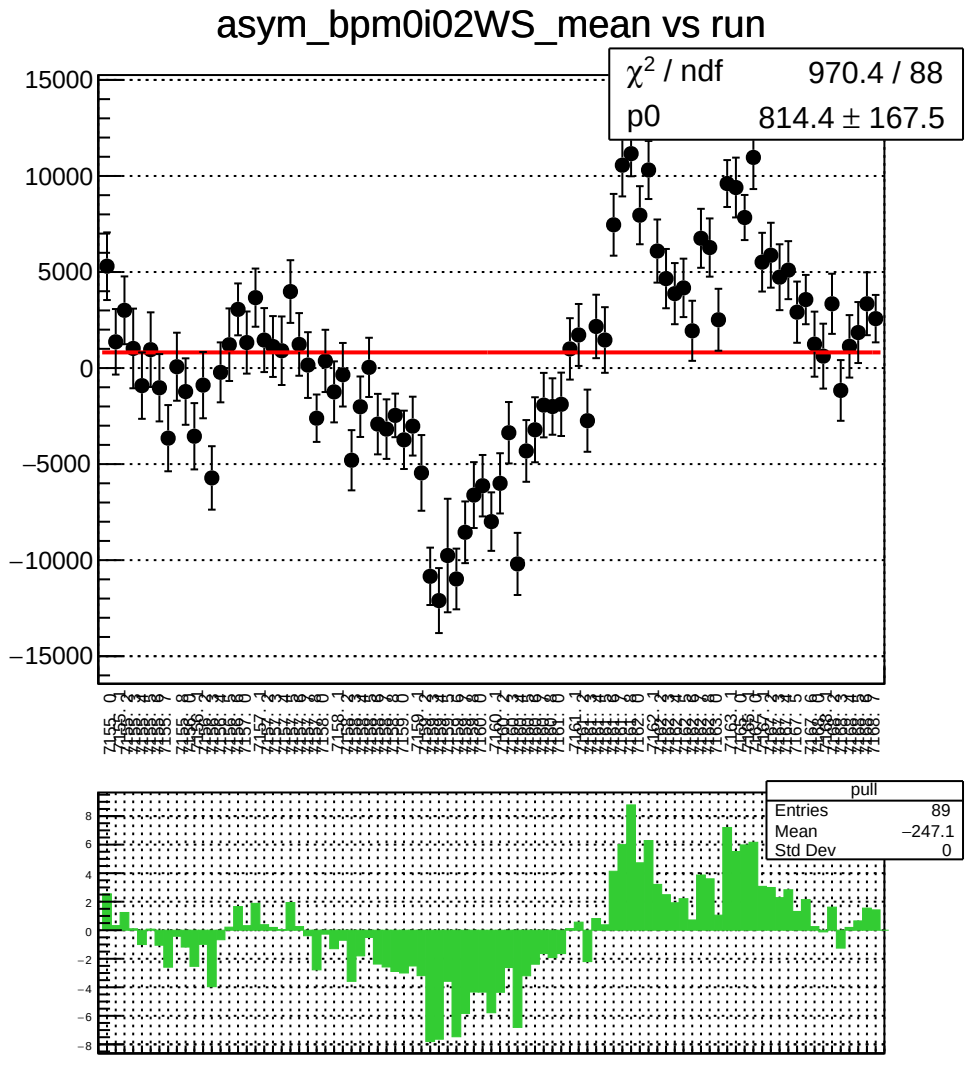

pull1D
Entries 89
Mean −0.001534
Std Dev 0.7718
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

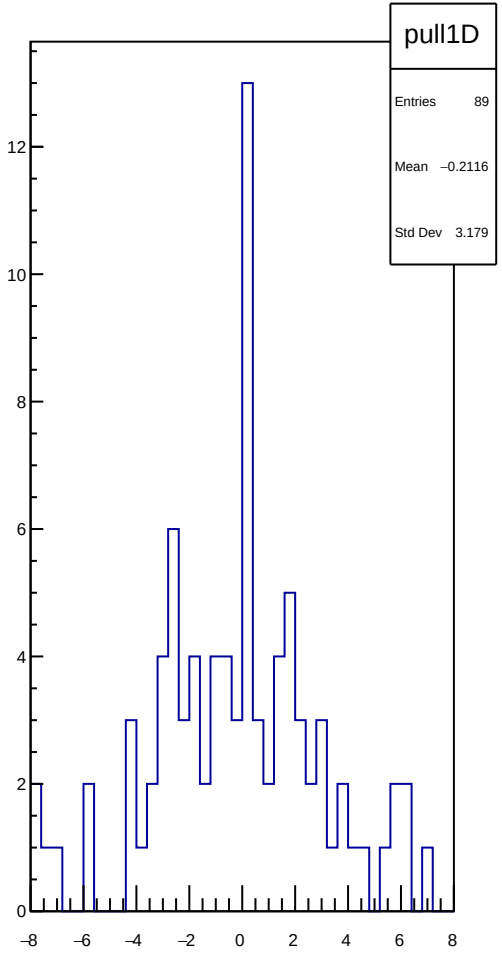

asym_cav4dQ_rms vs run
χ² / ndf 2564 / 88
p0 327.4 ± 0.2491
460
440
420
400
380
360
340
320
300

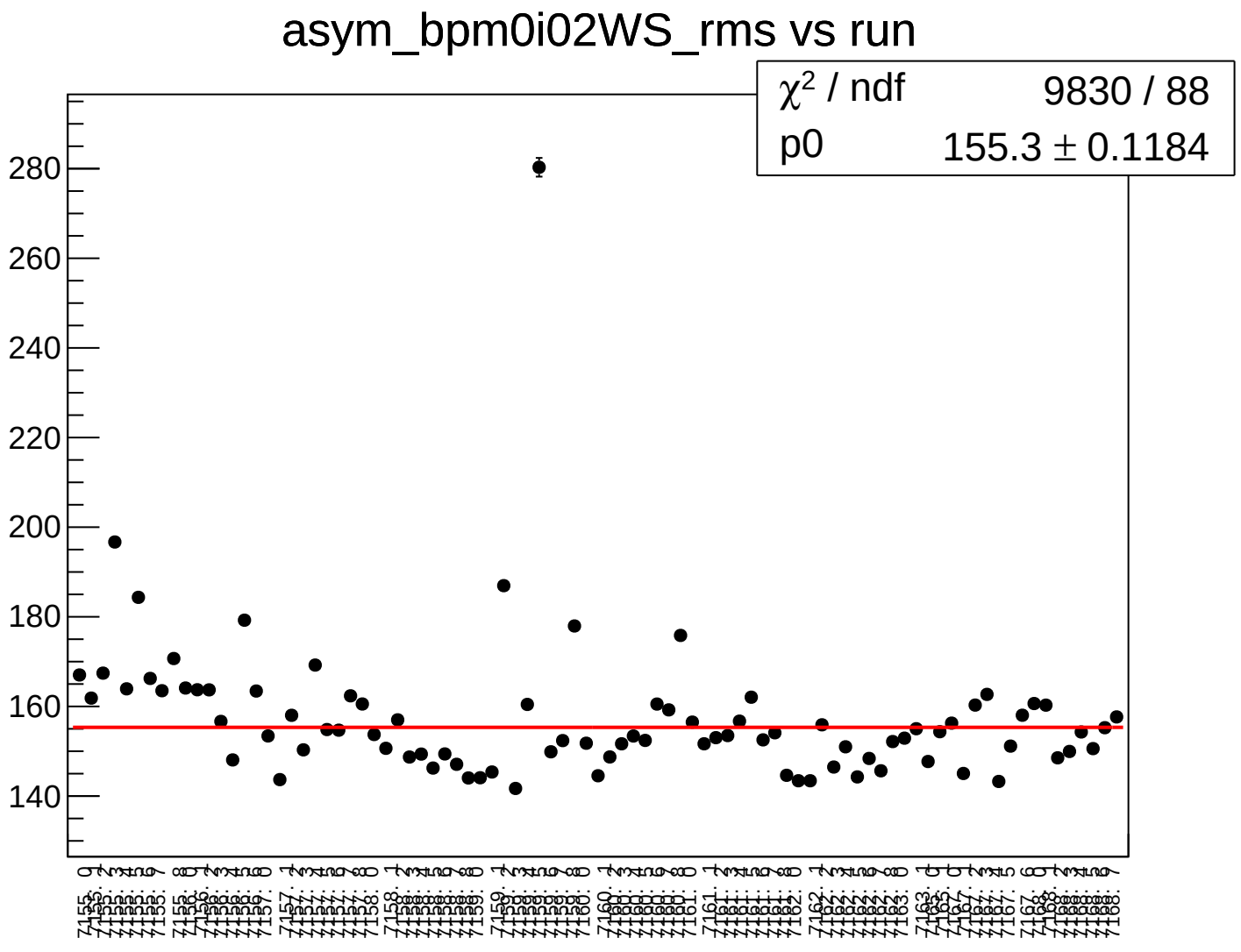

asym_bcm0l02_mean vs run
χ² / ndf 193.2 / 88
p0 −1978 ± 193.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1713
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

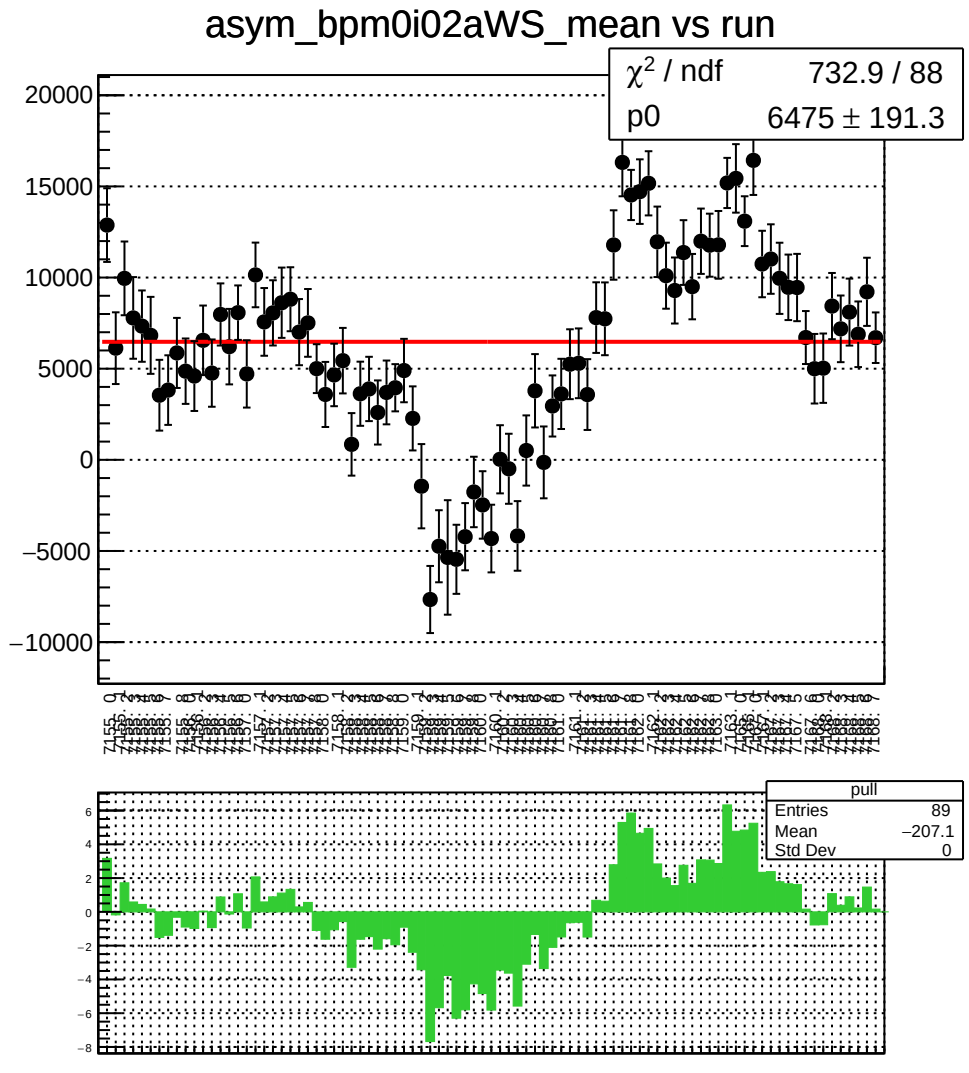

pull1D
Entries 89
Mean 0.008822
Std Dev 1.473
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

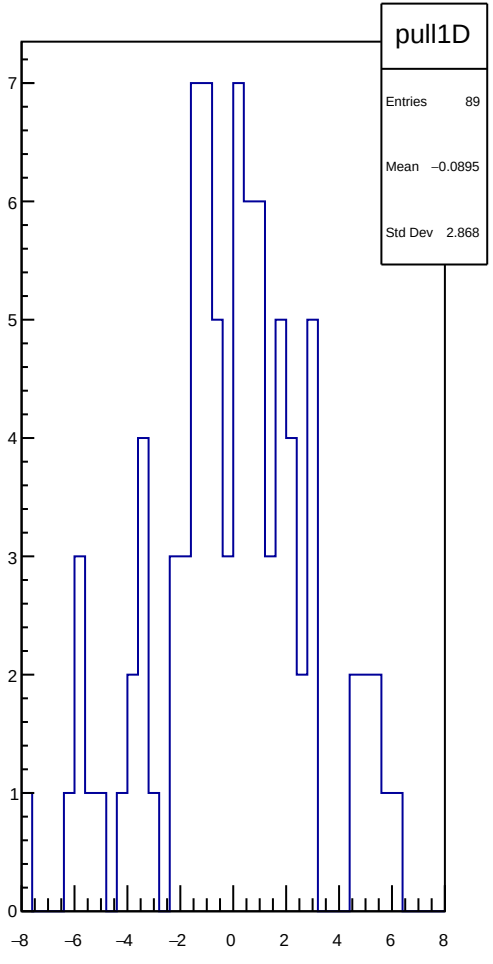

asym_bcm0l02_rms vs run
χ² / ndf 6671 / 88
p0 180 ± 0.1371
300
280
260
240
220
200
180
160

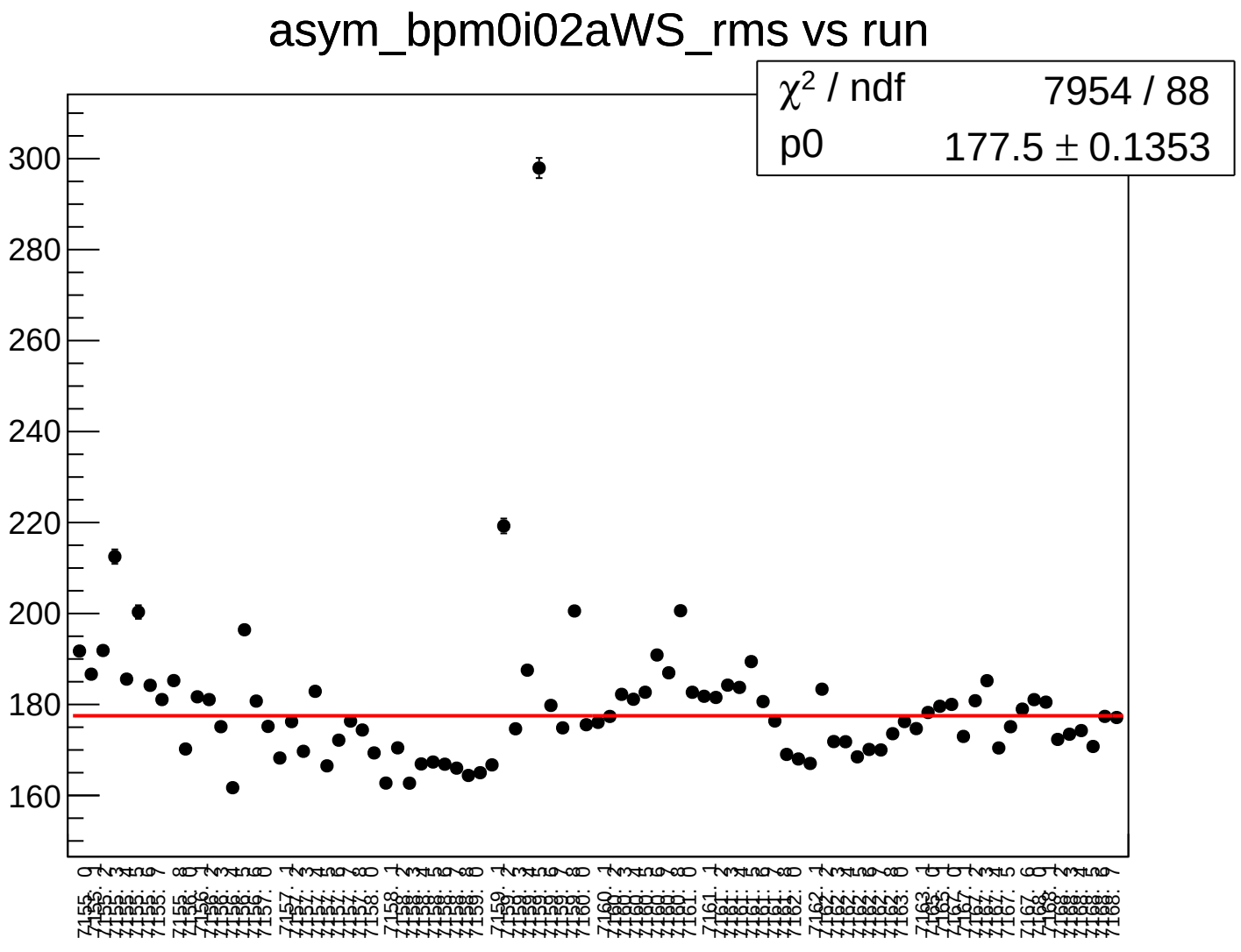

asym_bpm0i02WS_mean vs run
χ² / ndf 970.4 / 88
p0 814.4 ± 167.5
pull
Entries 89
Mean −247.1
Std Dev 0

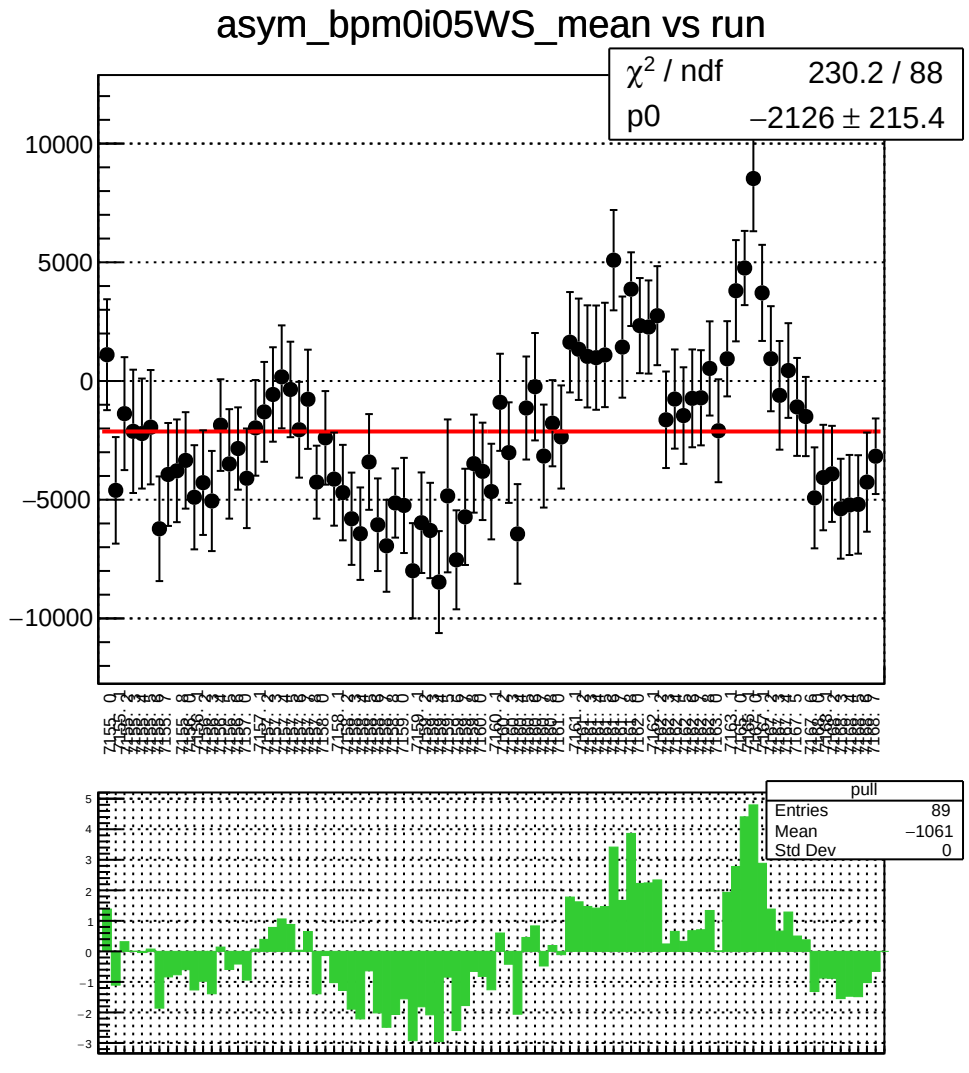

pull1D
Entries 89
Mean −0.2116
Std Dev 3.179

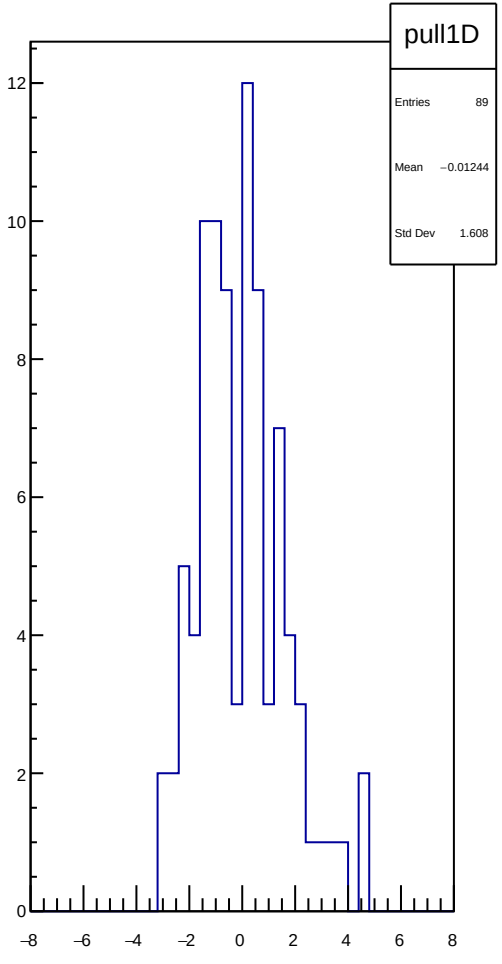

asym_bpm0i02WS_rms vs run
χ^2 / ndf 9830 / 88
p0 155.3 ± 0.1184
280
260
240
220
200
180
160
140

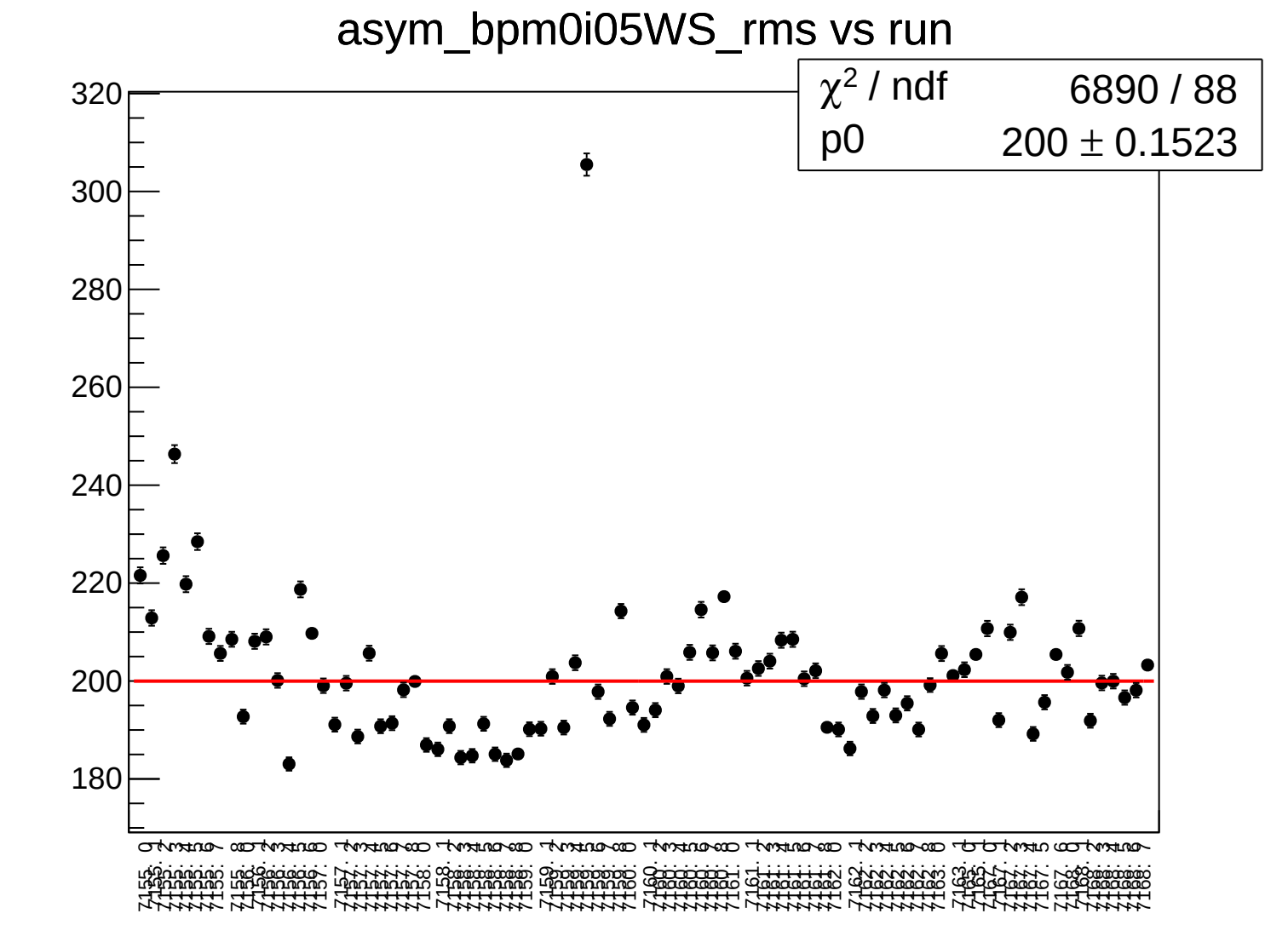

asym_bpm0i02aWS_mean vs run
χ² / ndf 732.9 / 88
p0 6475 ± 191.3
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −207.1
Std Dev 0
6
4
2
0
−2
−4
−6
−8

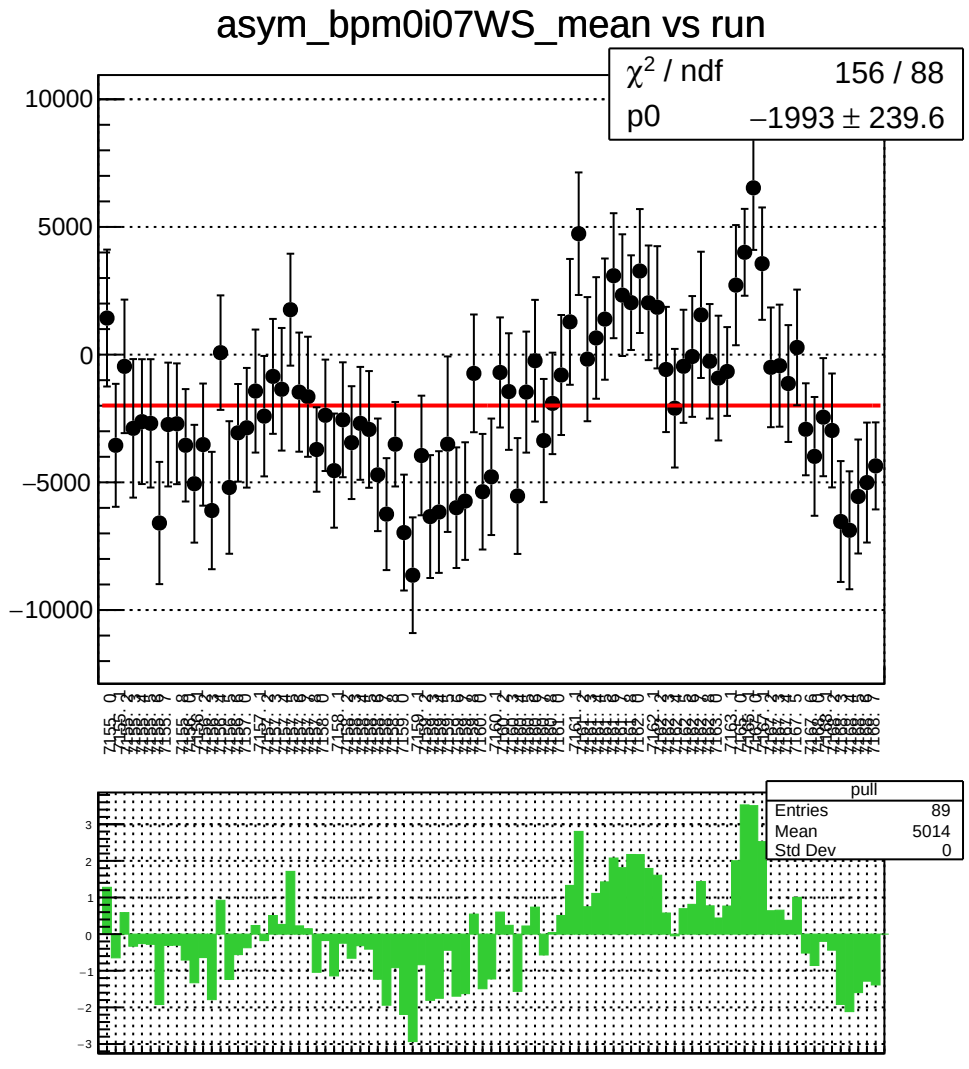

pull1D
Entries 89
Mean −0.0895
Std Dev 2.868
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

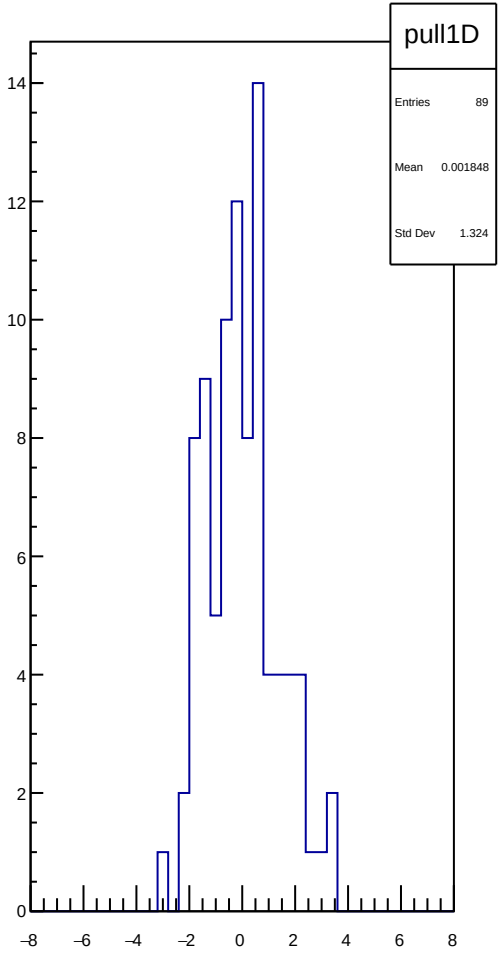

asym_bpm0i02aWS_rms vs run
χ² / ndf 7954 / 88
p0 177.5 ± 0.1353
300
280
260
240
220
200
180
160

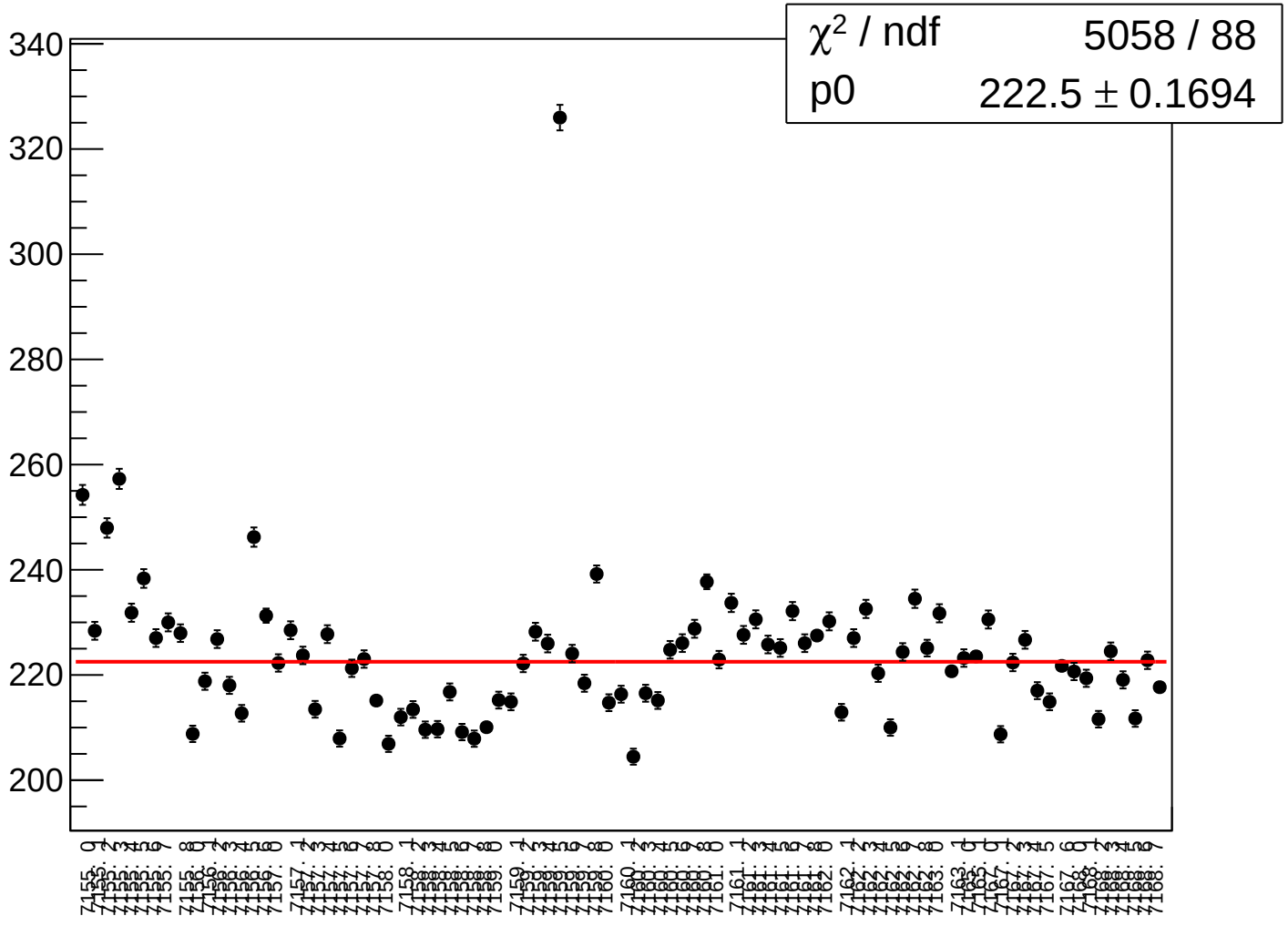

asym_bpm0i05WS_mean vs run
χ² / ndf 230.2 / 88
p0 −2126 ± 215.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1061
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

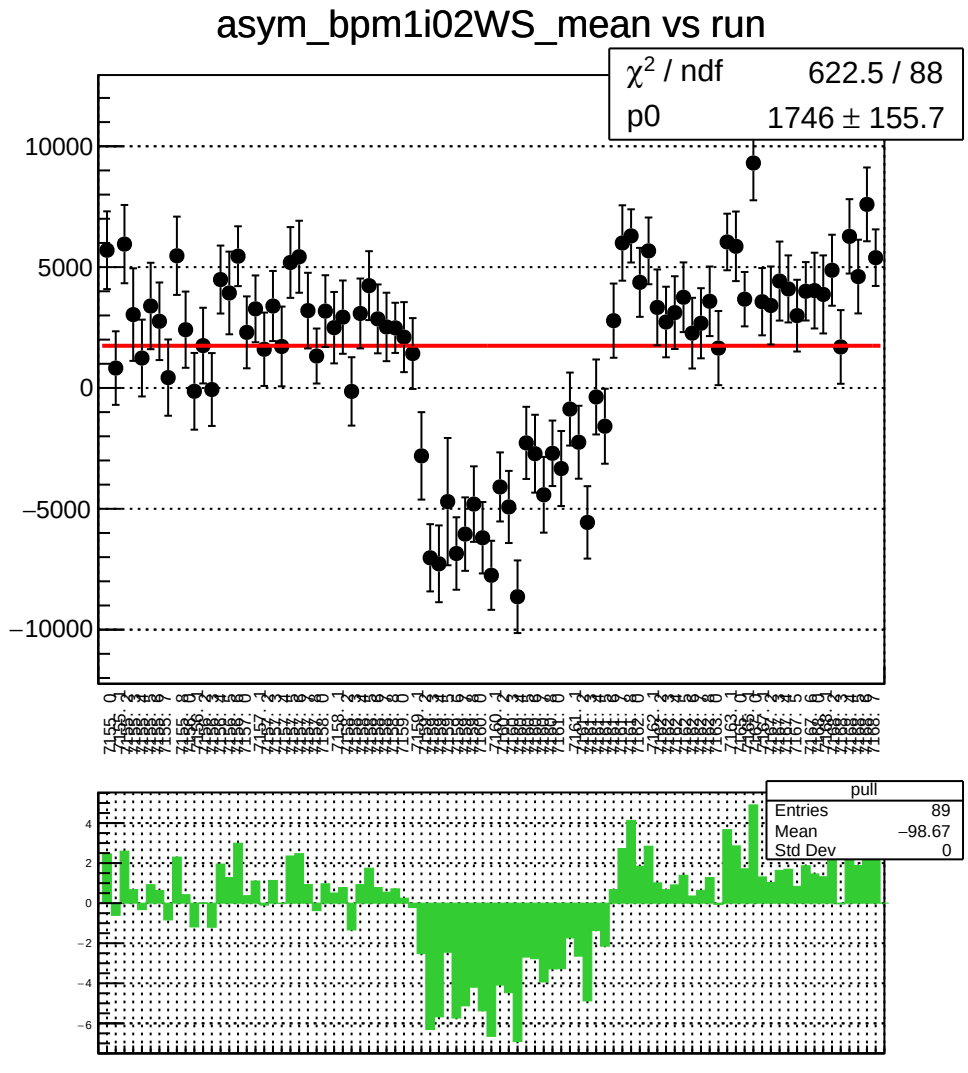

pull1D
Entries 89
Mean −0.01244
Std Dev 1.608
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

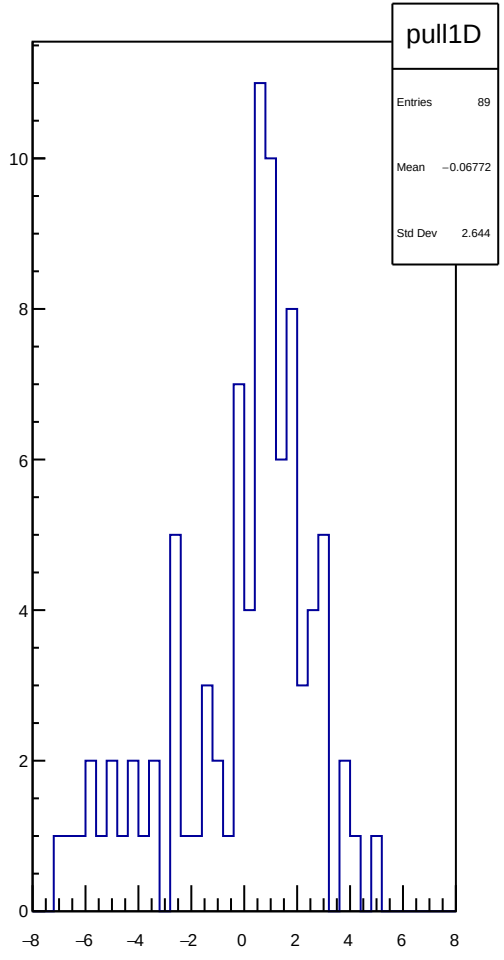

asym_bpm0i05WS_rms vs run
χ^2 / ndf 6890 / 88
p0 200 ± 0.1523
320
300
280
260
240
220
200
180

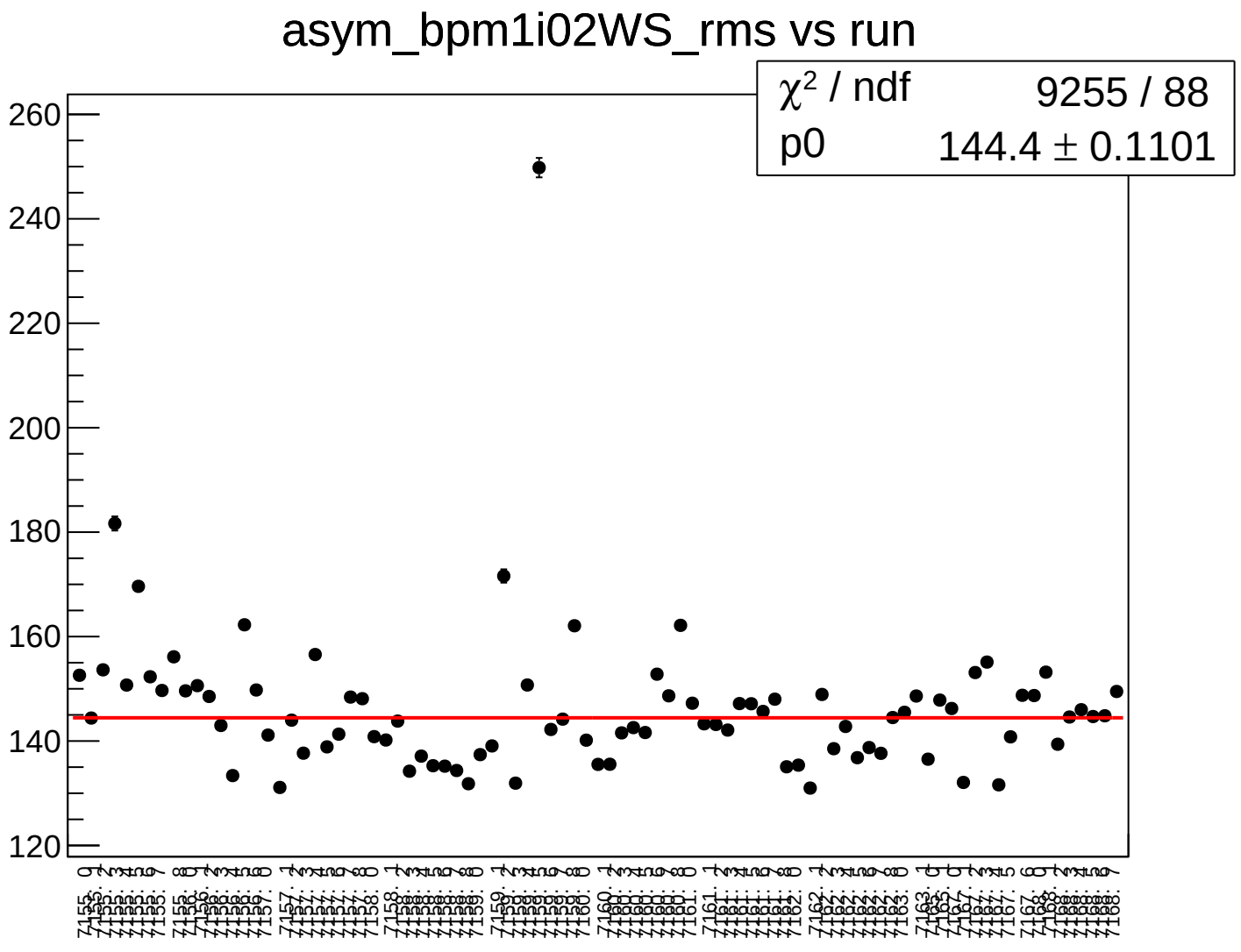

asym_bpm0i07WS_mean vs run
χ² / ndf 156 / 88
p0 −1993 ± 239.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 5014
Std Dev 0
3
2
1
0
−1
−2
−3

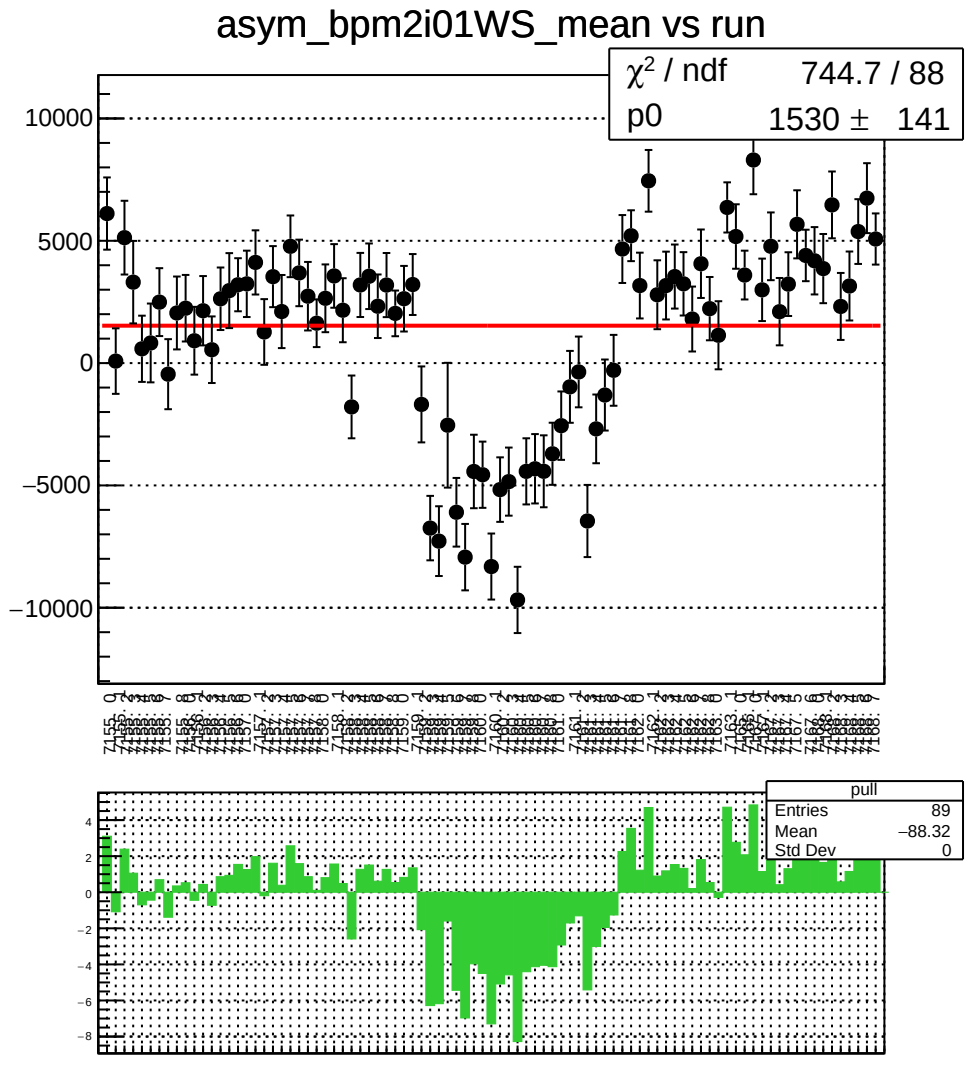

pull1D
Entries 89
Mean 0.001848
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

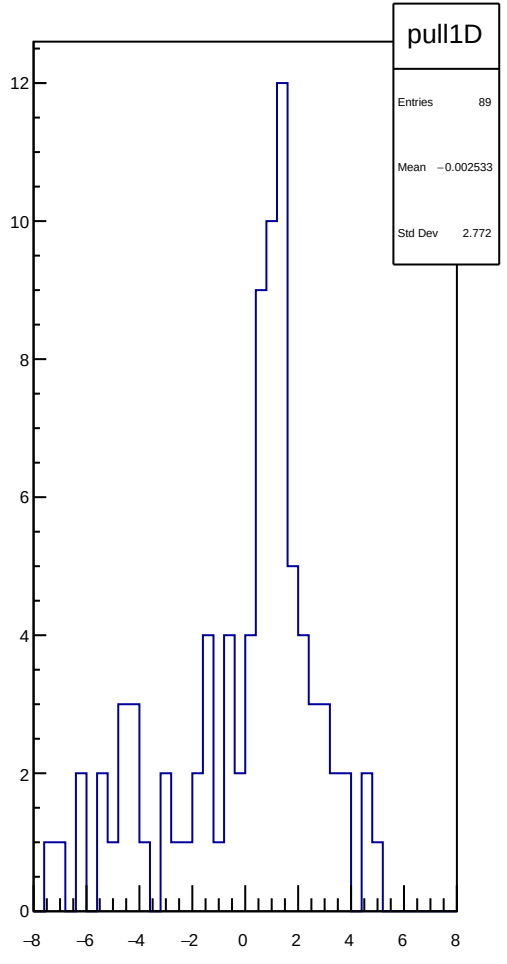

asym_bpm0i07WS_rms vs run
χ² / ndf 5058 / 88
p0 222.5 ± 0.1694
340
320
300
280
260
240
220
200

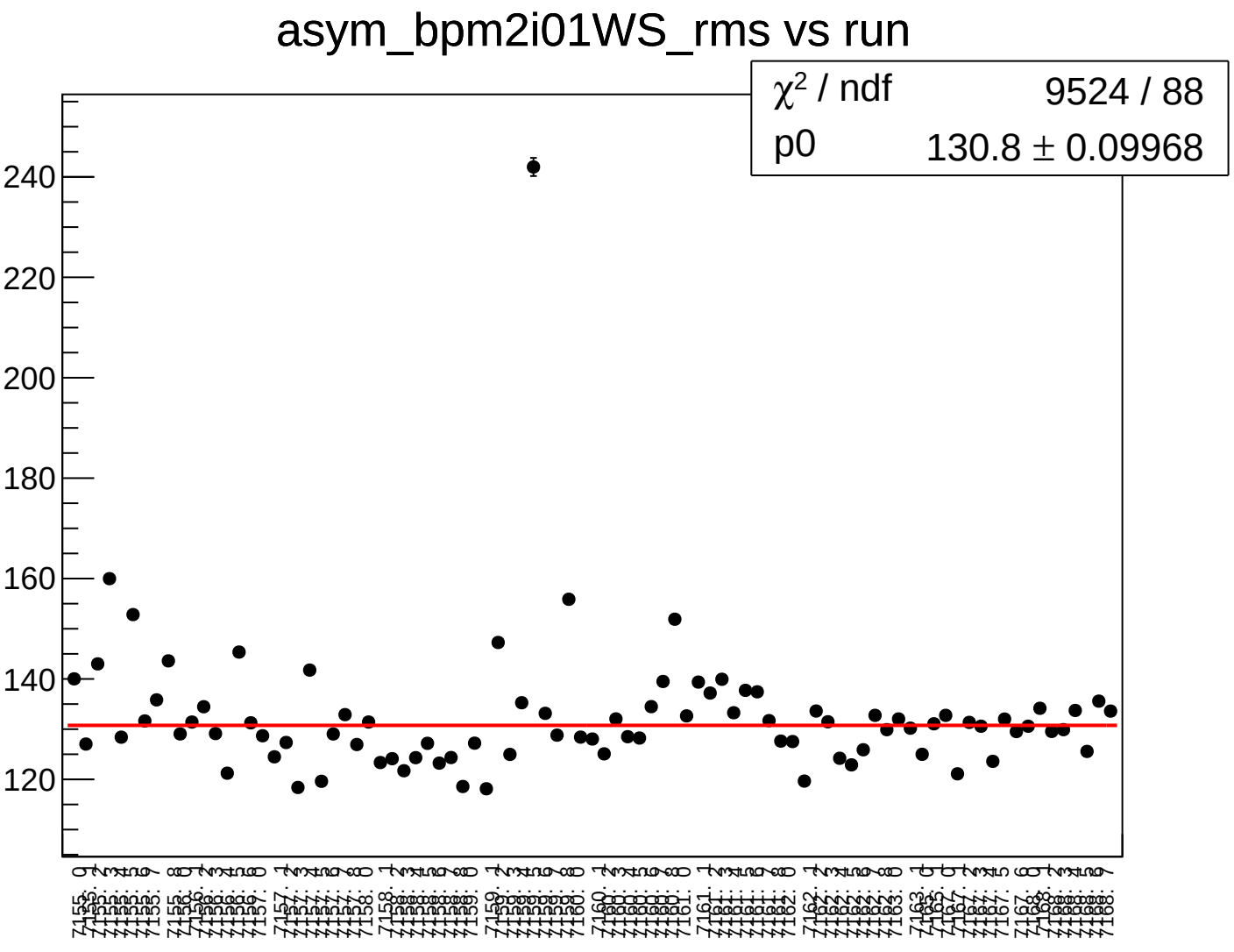

asym_bpm1i02WS_mean vs run
χ² / ndf 622.5 / 88
p0 1746 ± 155.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −98.67
Std Dev 0
4
2
0
−2
−4
−6

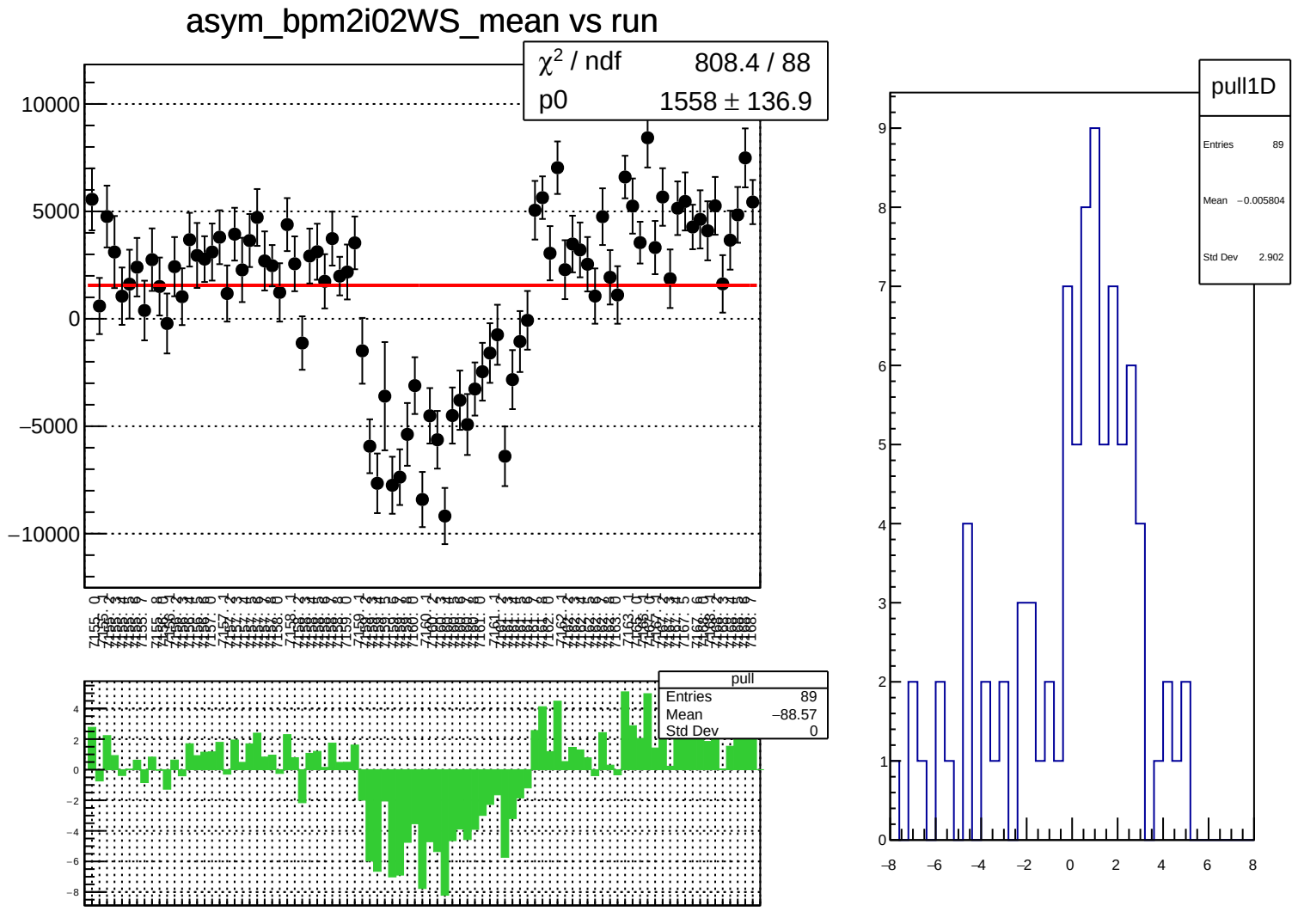

pull1D
Entries 89
Mean −0.06772
Std Dev 2.644
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

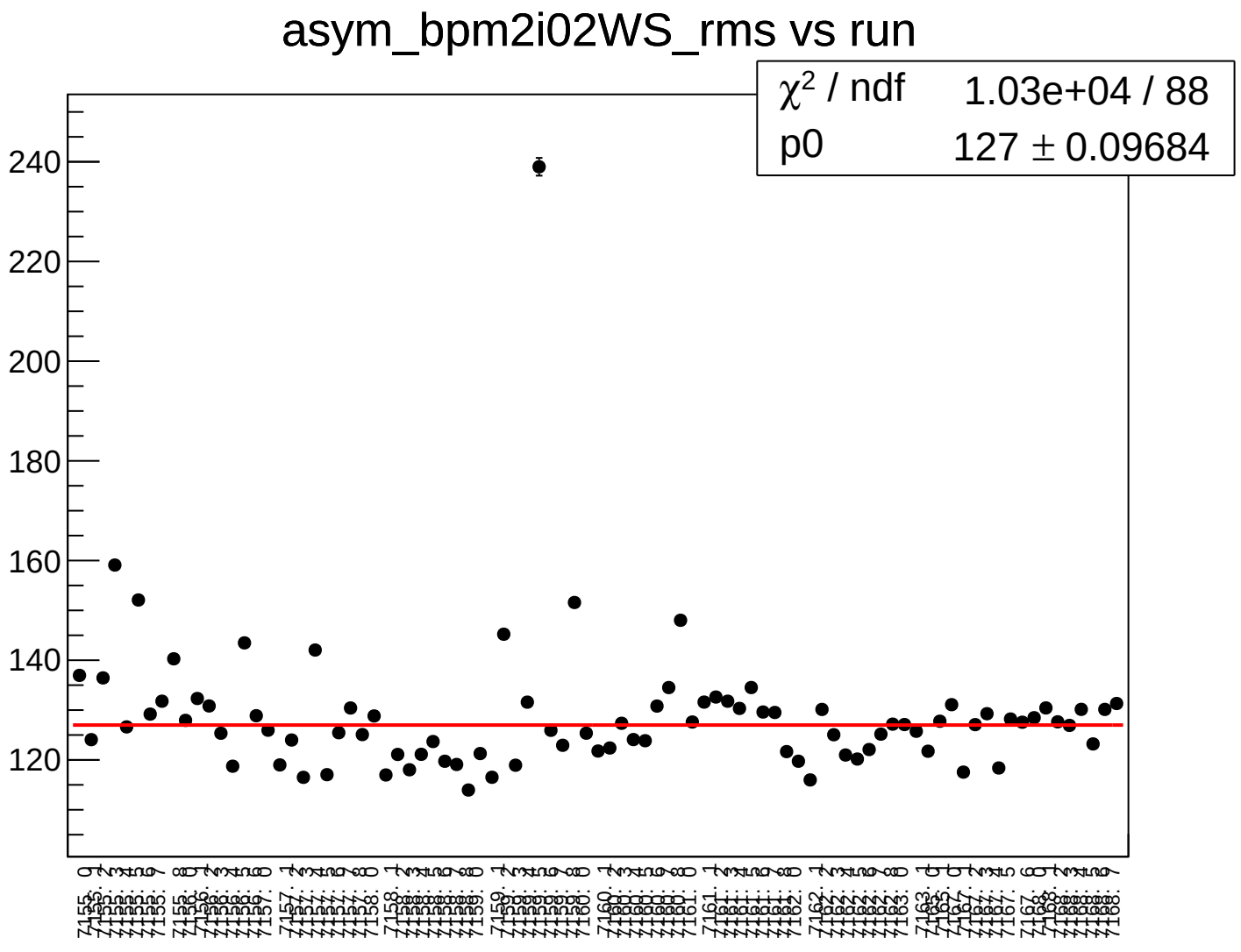

asym_bpm1i02WS_rms vs run
χ² / ndf 9255 / 88
p0 144.4 ± 0.1101
260
240
220
200
180
160
140
120

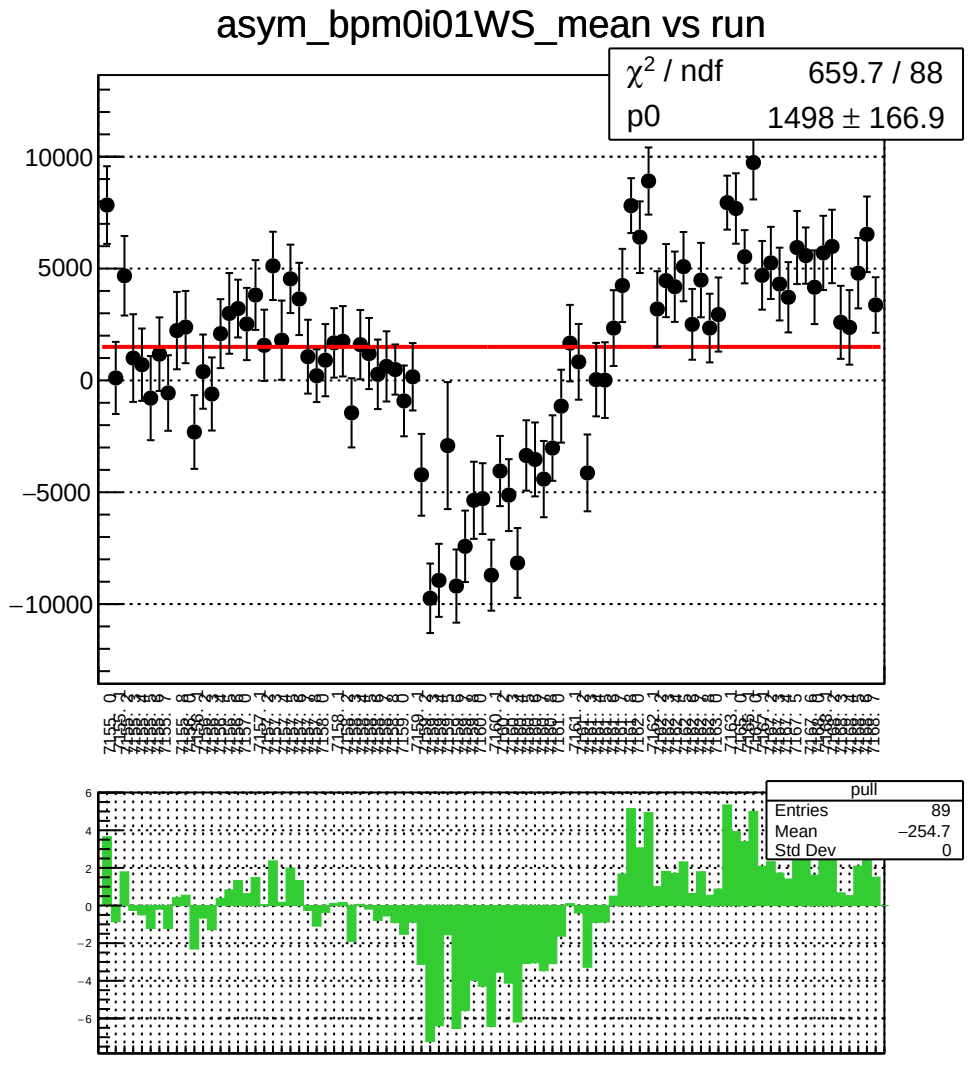

asym_bpm2i01WS_mean vs run
χ² / ndf 744.7 / 88
p0 1530 ± 141
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −88.32
Std Dev 0
4
2
0
−2
−4
−6
−8

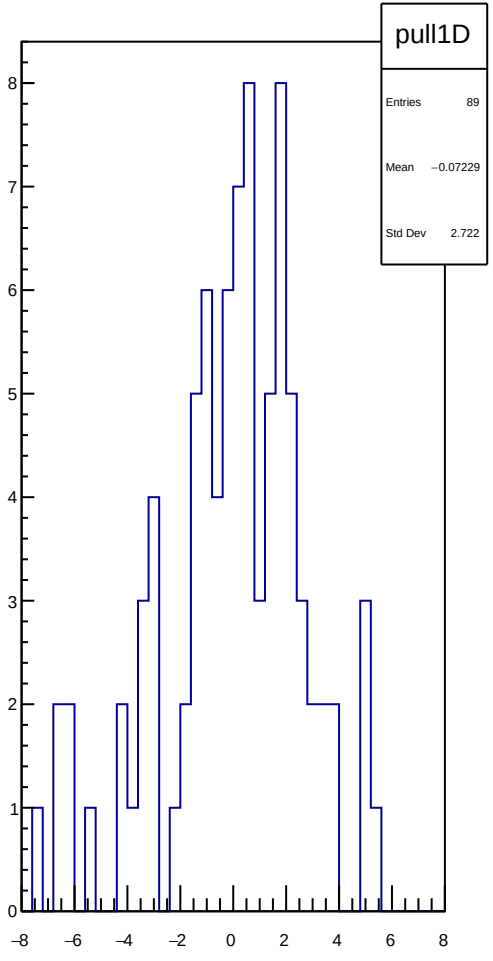

pull1D
Entries 89
Mean −0.002533
Std Dev 2.772
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

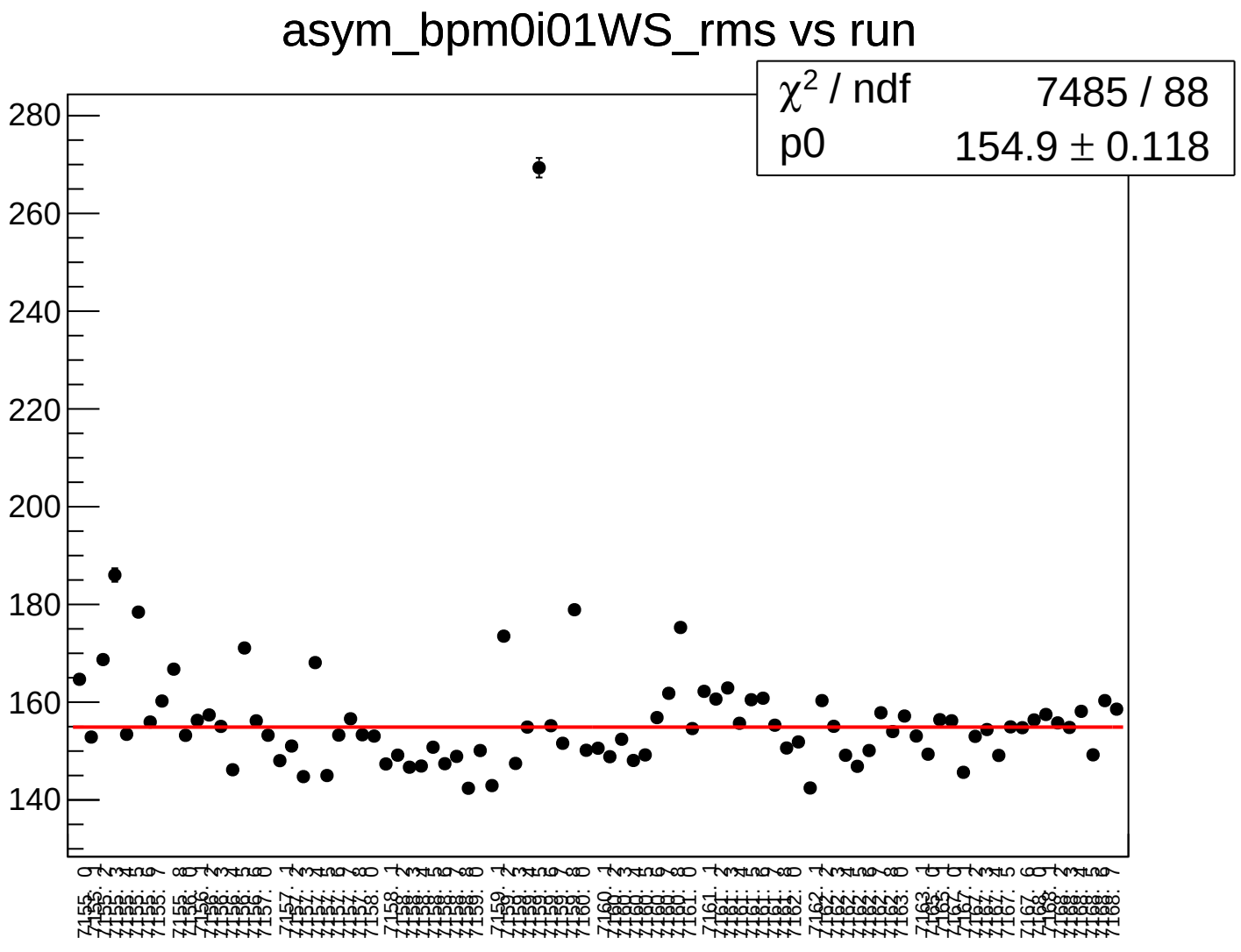

asym_bpm2i01WS_rms vs run
χ^2 / ndf 9524 / 88
p0 130.8 ± 0.09968
240
220
200
180
160
140
120

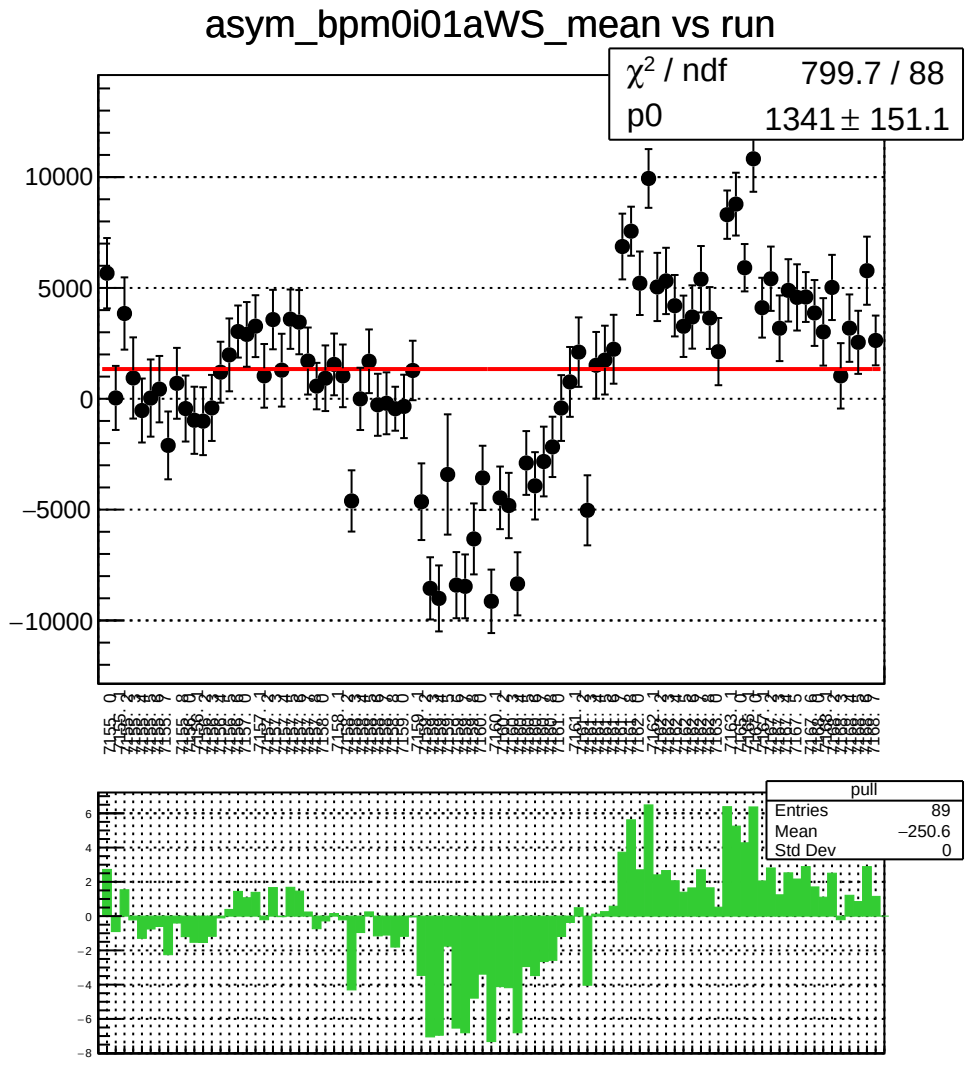

asym_bpm2i02WS_mean vs run
χ² / ndf 808.4 / 88
p0 1558 ± 136.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −88.57
Std Dev 0
pull1D
Entries 89
Mean −0.005804
Std Dev 2.902

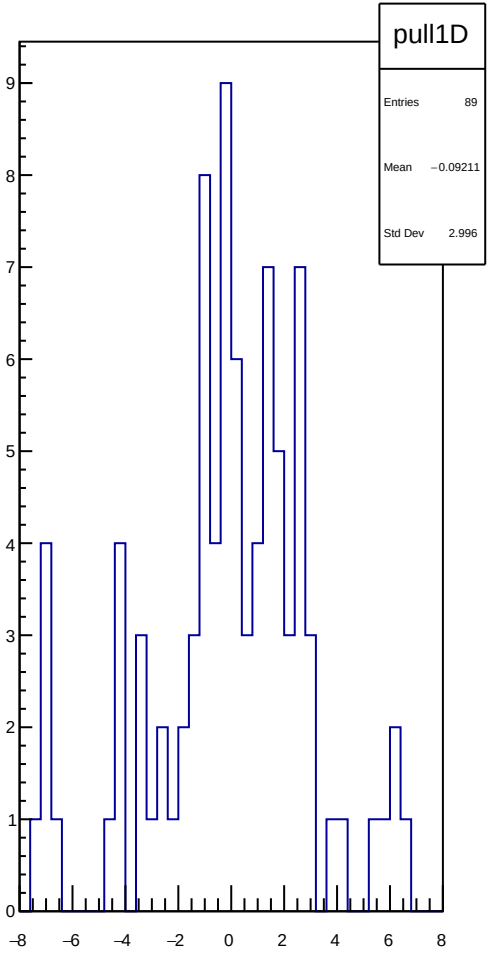

asym_bpm2i02WS_rms vs run
χ² / ndf 1.03e+04 / 88
p0 127 ± 0.09684
240
220
200
180
160
140
120

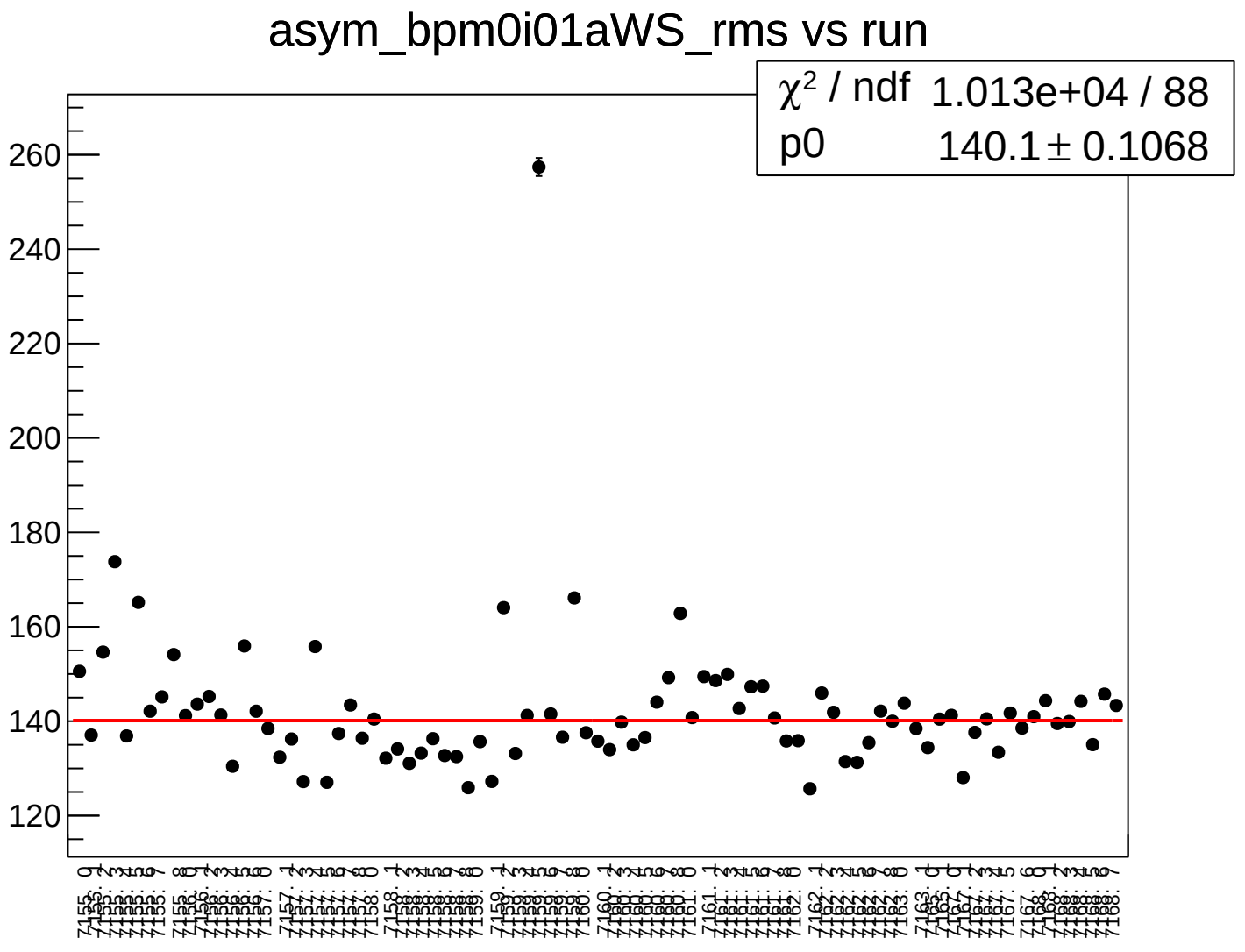

asym_bpm0i01WS_mean vs run
χ² / ndf 659.7 / 88
p0 1498 ± 166.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −254.7
Std Dev 0
6
4
2
0
−2
−4
−6

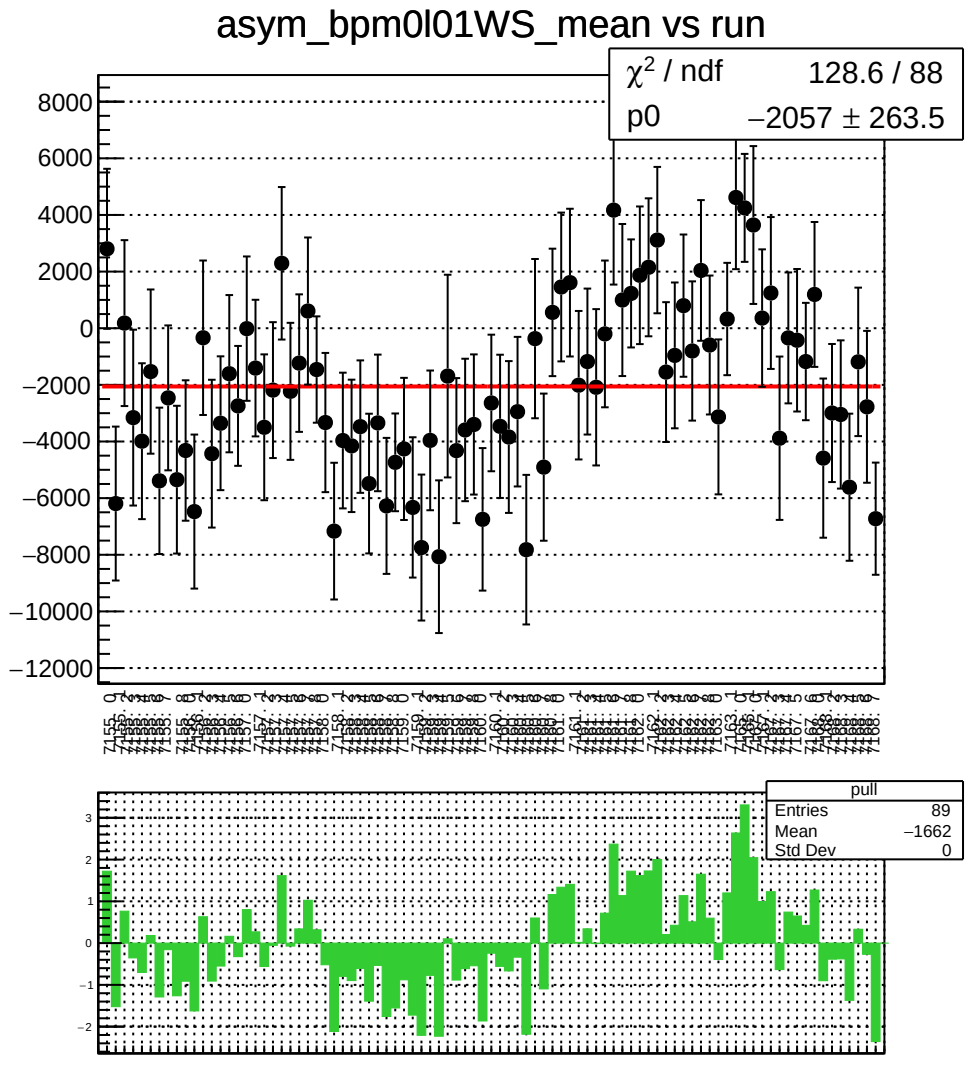

pull1D
Entries 89
Mean −0.07229
Std Dev 2.722
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

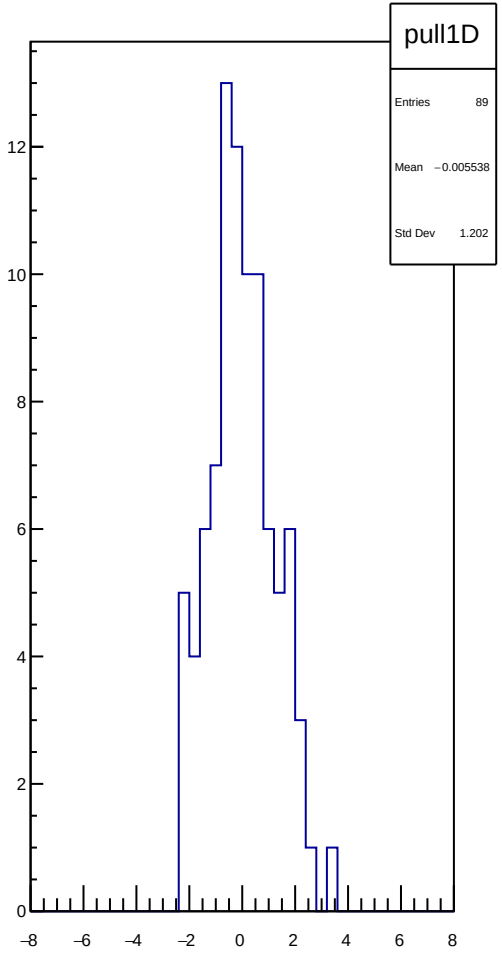

asym_bpm0i01WS_rms vs run
χ^2 / ndf 7485 / 88
p0 154.9 ± 0.118
280
260
240
220
200
180
160
140

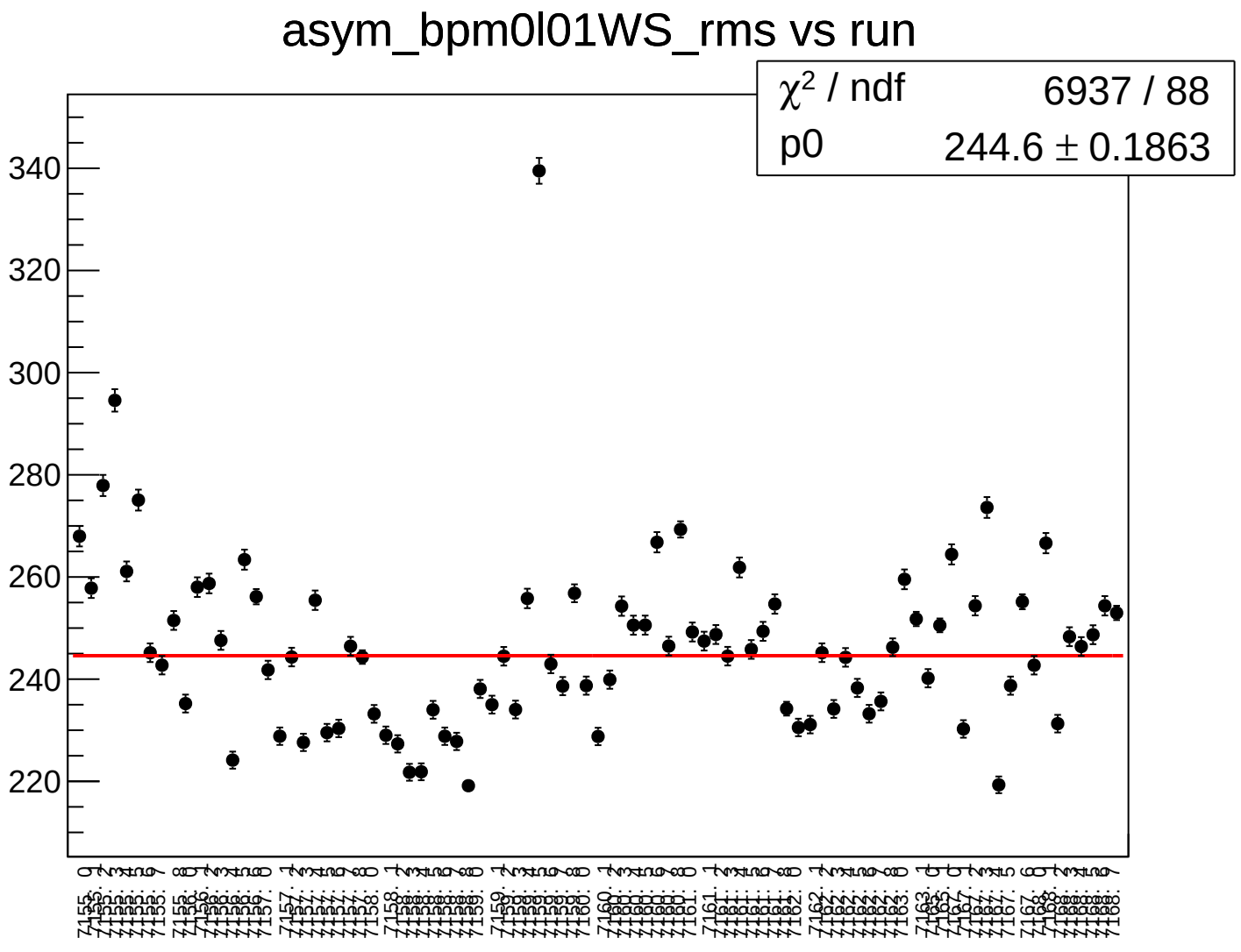

asym_bpm0i01aWS_mean vs run
χ² / ndf 799.7 / 88
p0 1341 ± 151.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −250.6
Std Dev 0
6
4
2
0
−2
−4
−6
−8

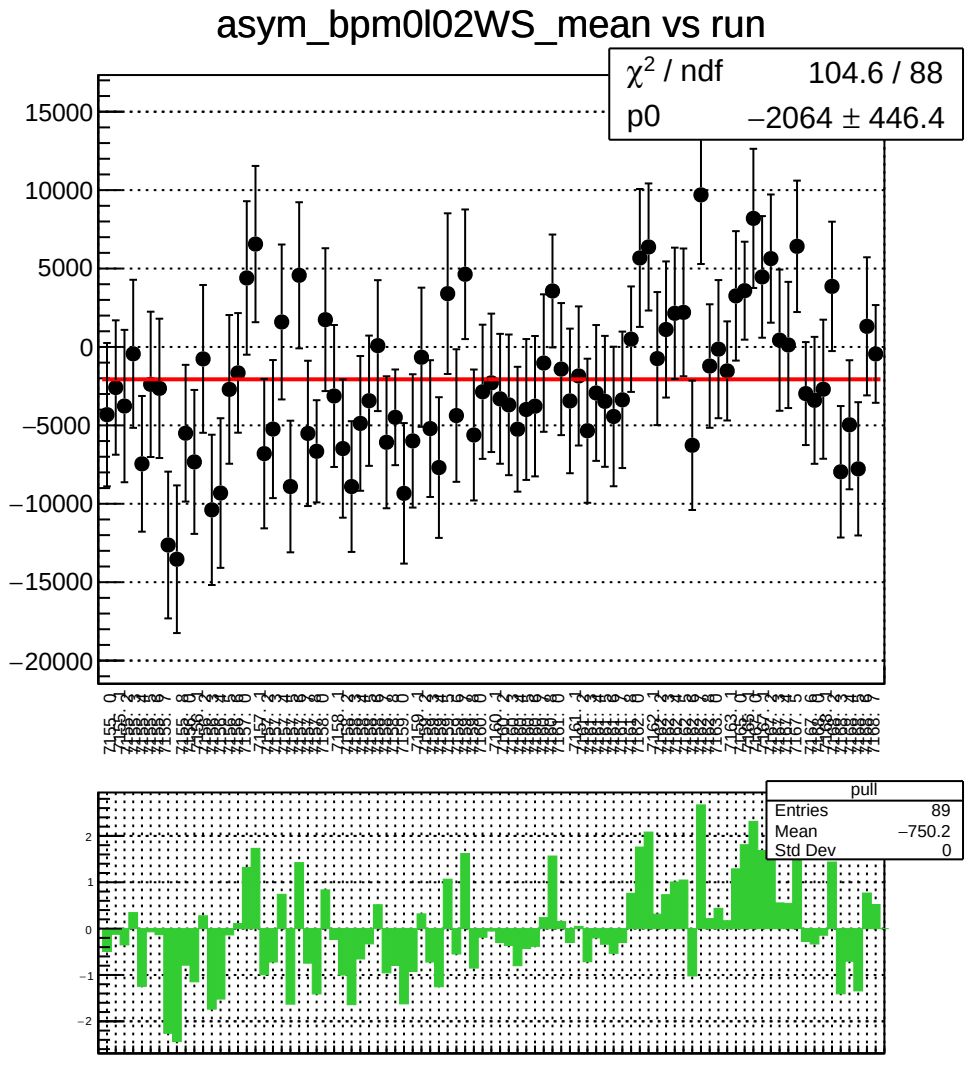

pull1D
Entries 89
Mean −0.09211
Std Dev 2.996
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

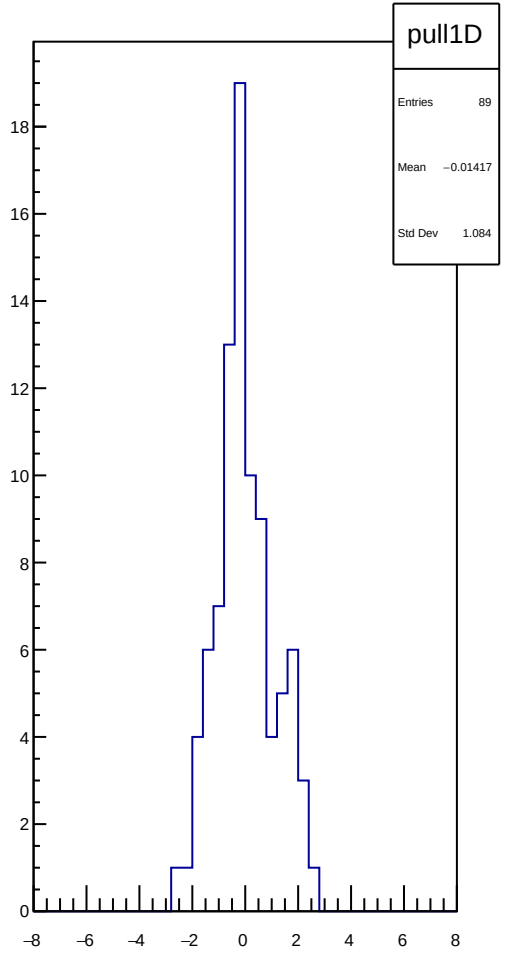

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.013e+04 / 88
p0 140.1 ± 0.1068
260
240
220
200
180
160
140
120

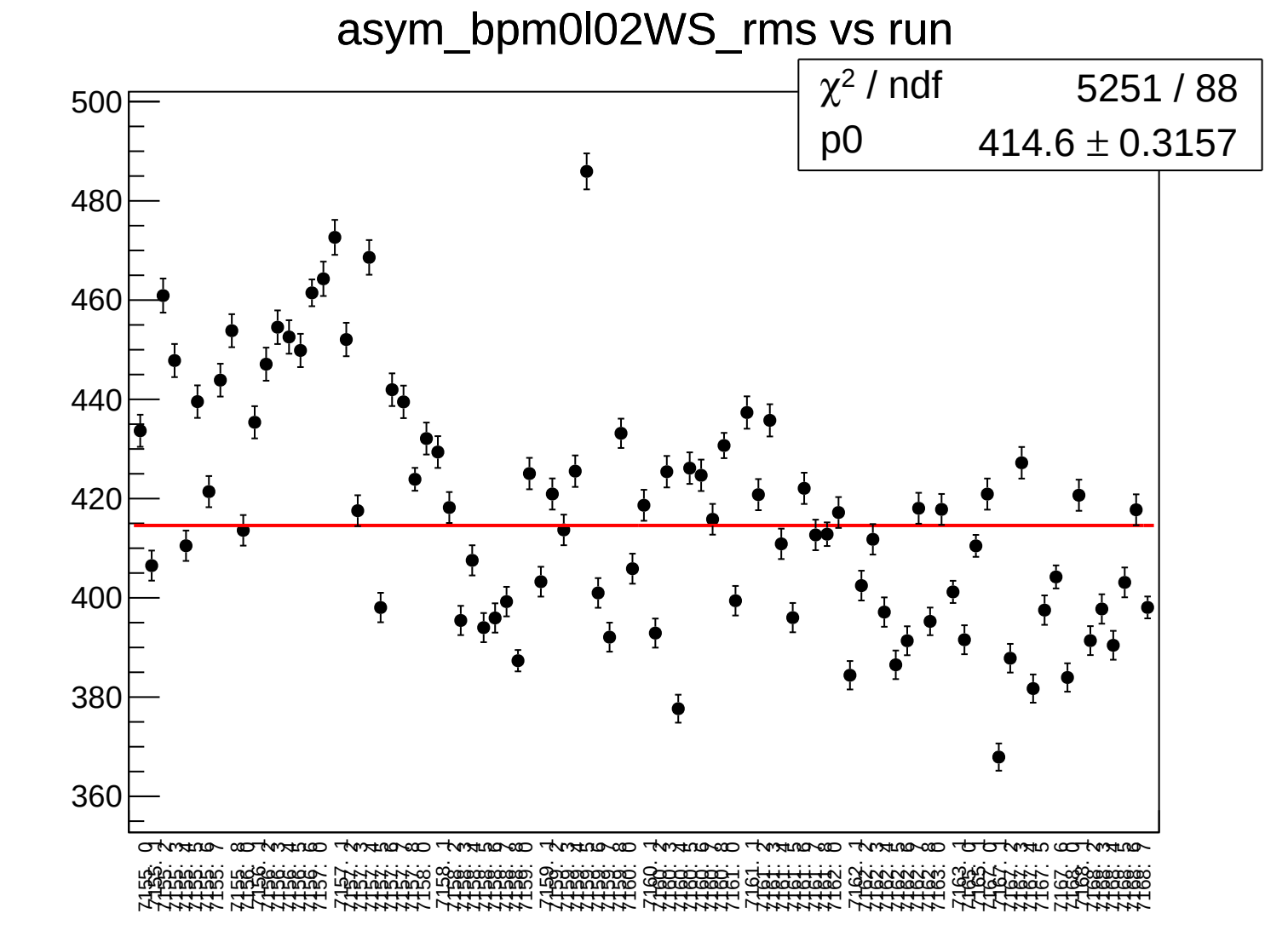

asym_bpm0l01WS_mean vs run
χ² / ndf 128.6 / 88
p0 −2057 ± 263.5
pull
Entries 89
Mean −1662
Std Dev 0

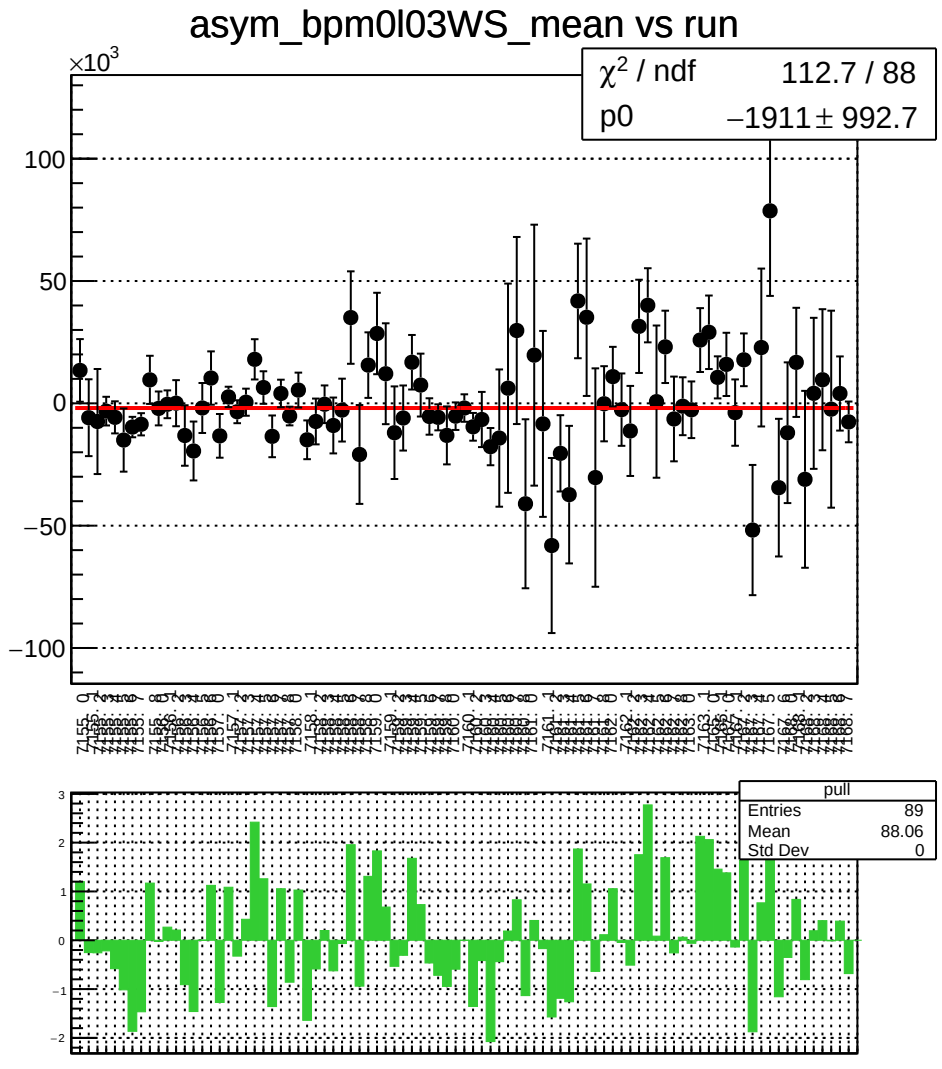

pull1D
Entries 89
Mean −0.005538
Std Dev 1.202

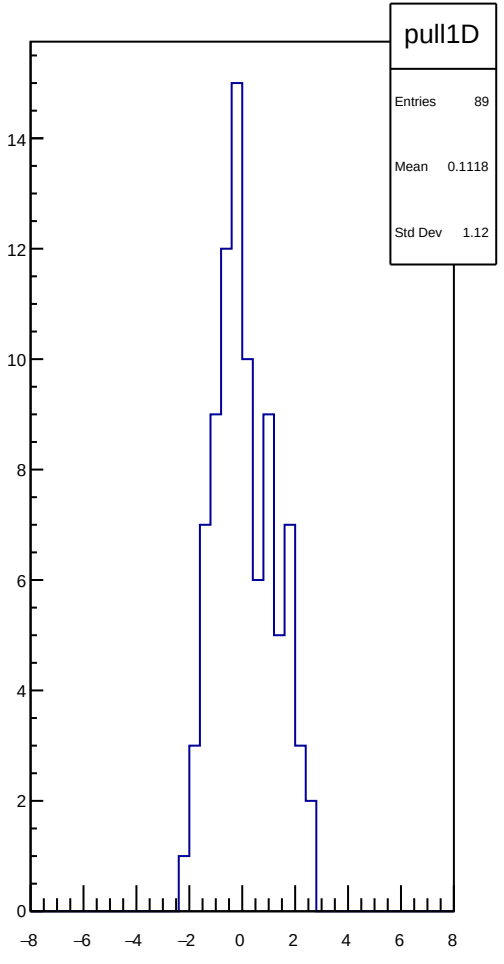

asym_bpm0l01WS_rms vs run
χ² / ndf 6937 / 88
p0 244.6 ± 0.1863
340
320
300
280
260
240
220

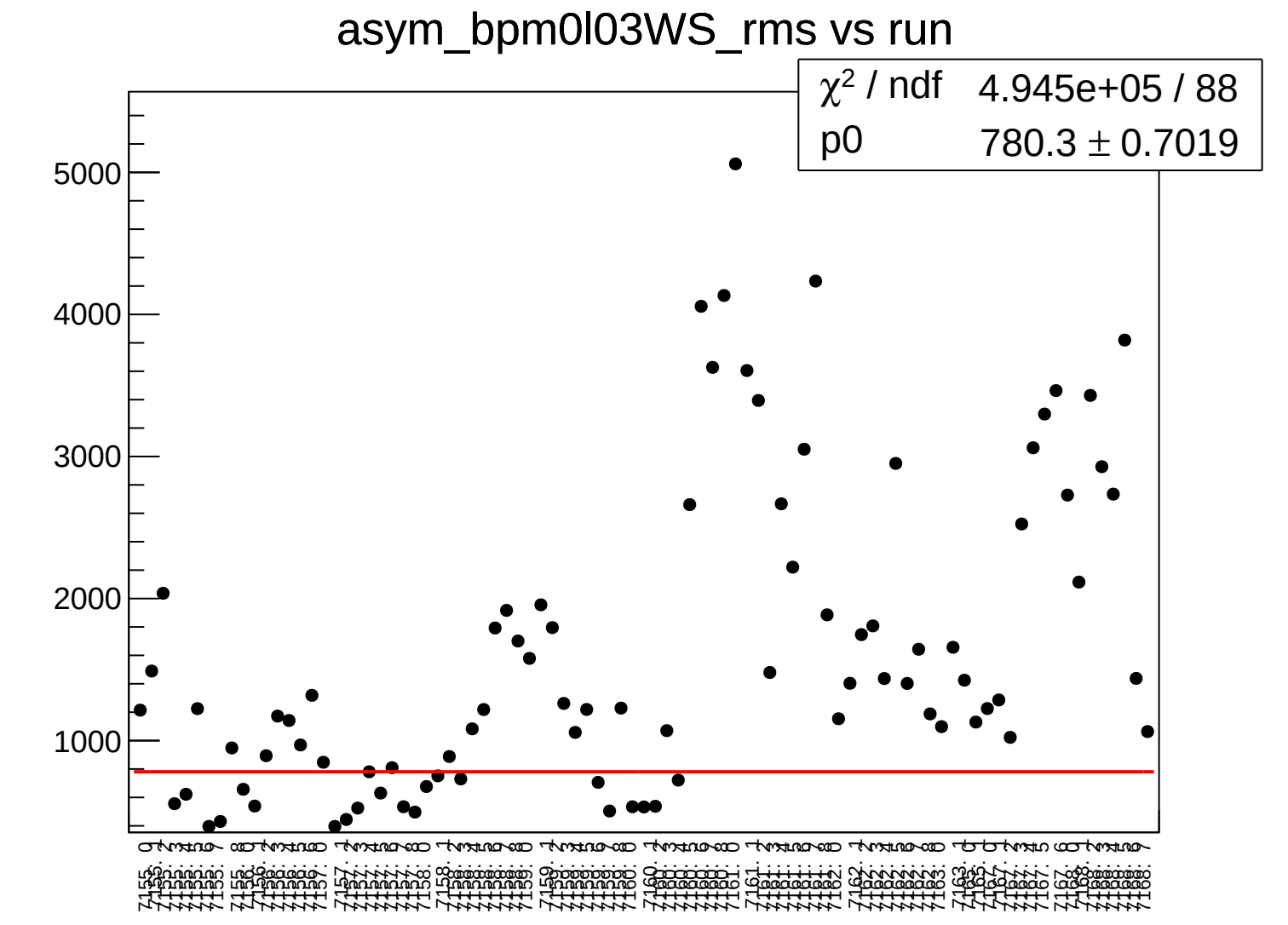

asym_bpm0l02WS_mean vs run
χ² / ndf 104.6 / 88
p0 −2064 ± 446.4
pull
Entries 89
Mean −750.2
Std Dev 0

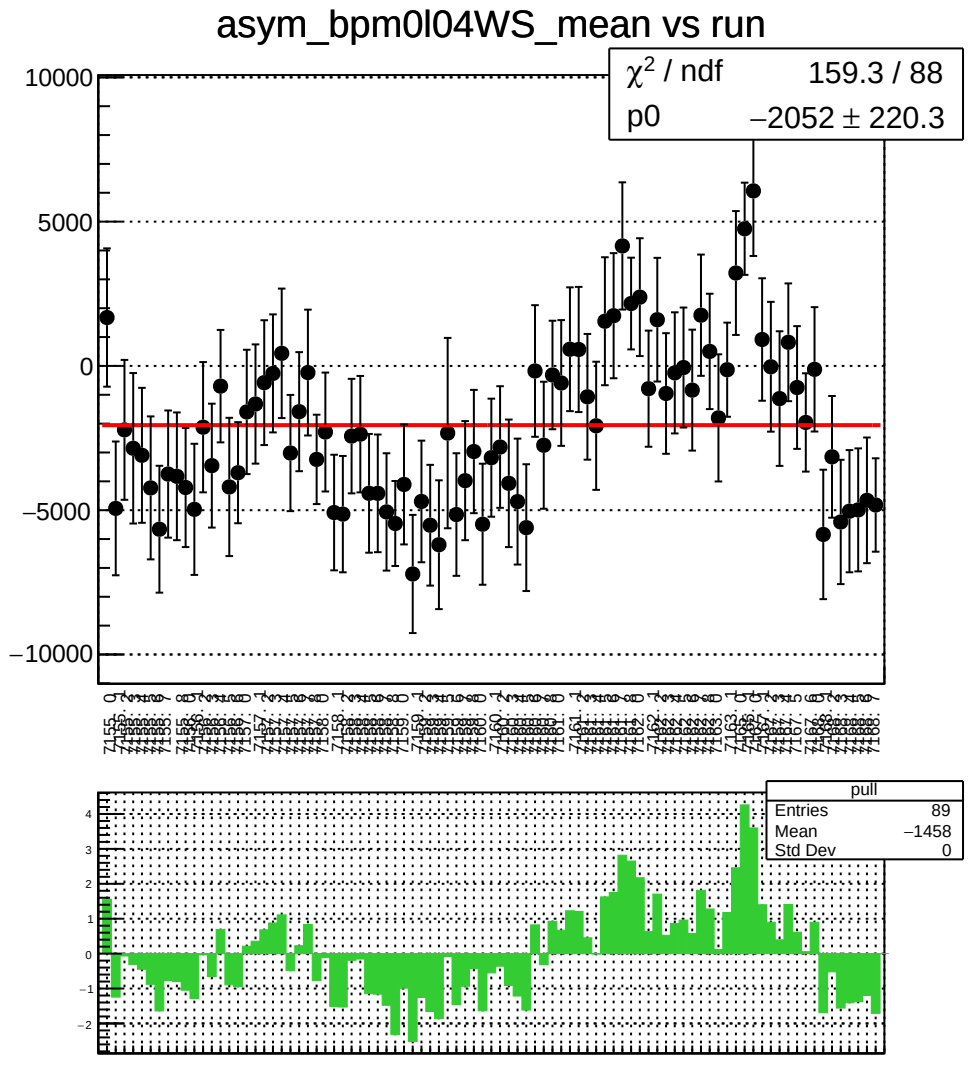

pull1D
Entries 89
Mean −0.01417
Std Dev 1.084

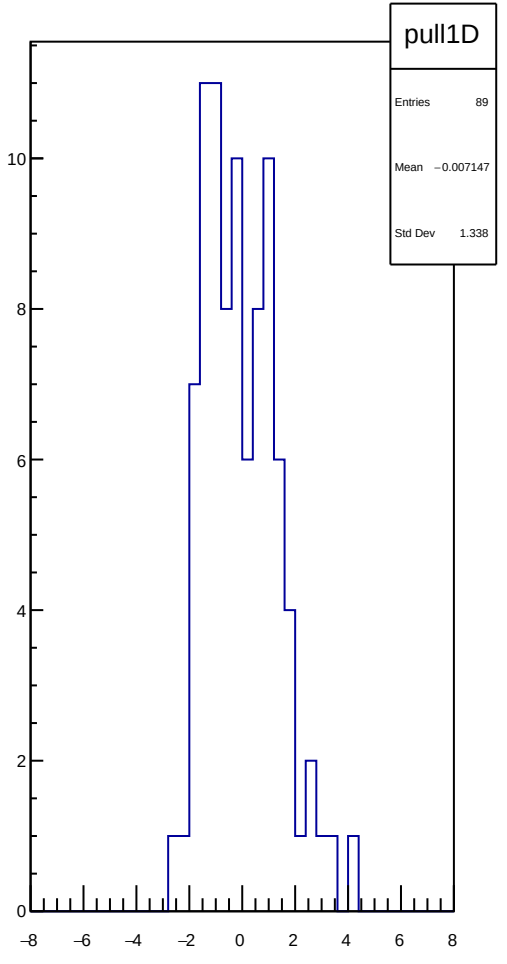

asym_bpm0l02WS_rms vs run
χ² / ndf 5251 / 88
p0 414.6 ± 0.3157
500
480
460
440
420
400
380
360

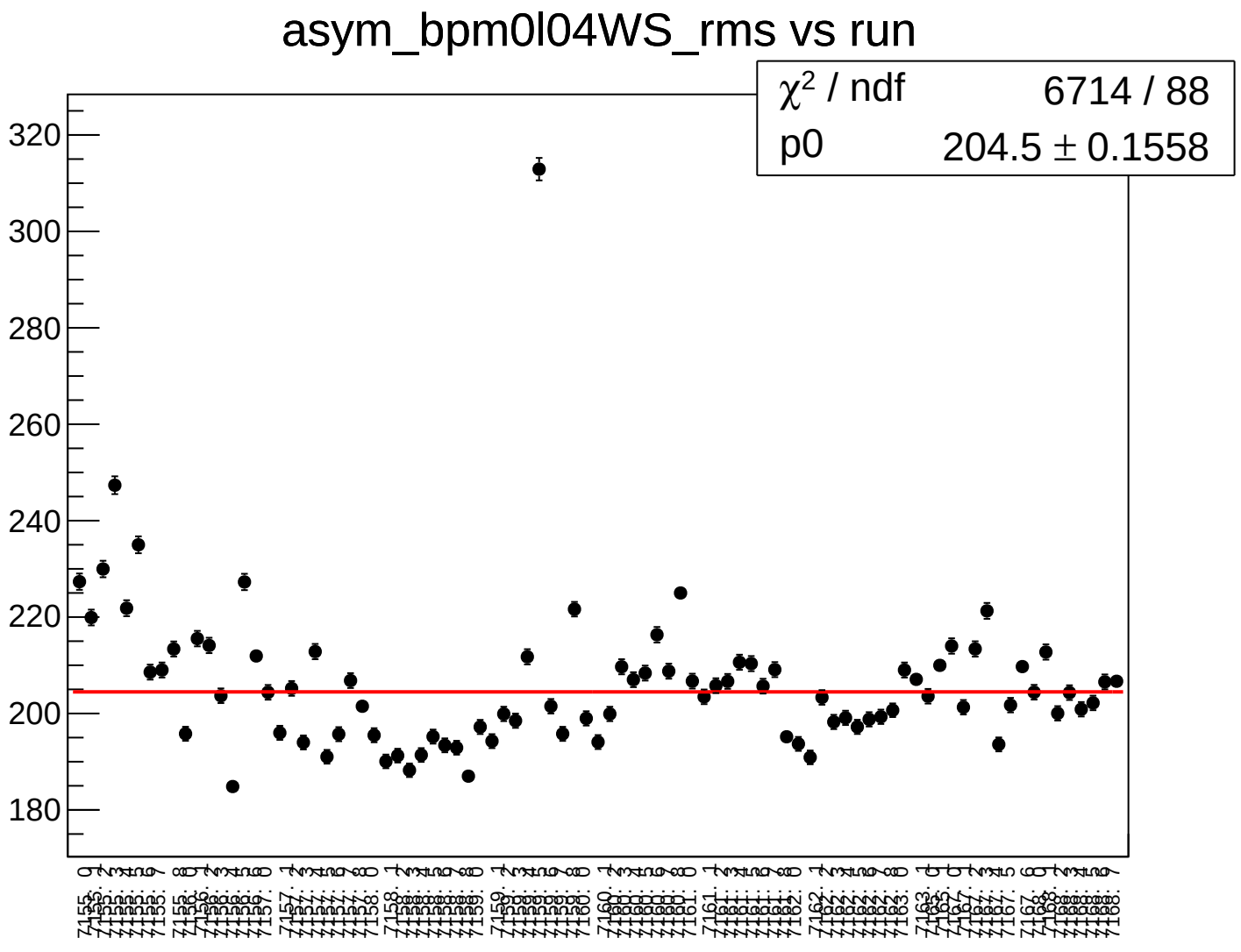

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 112.7 / 88
p0 −1911 ± 992.7
100
50
0
−50
−100
pull
Entries 89
Mean 88.06
Std Dev 0
3
2
1
0
−1
−2

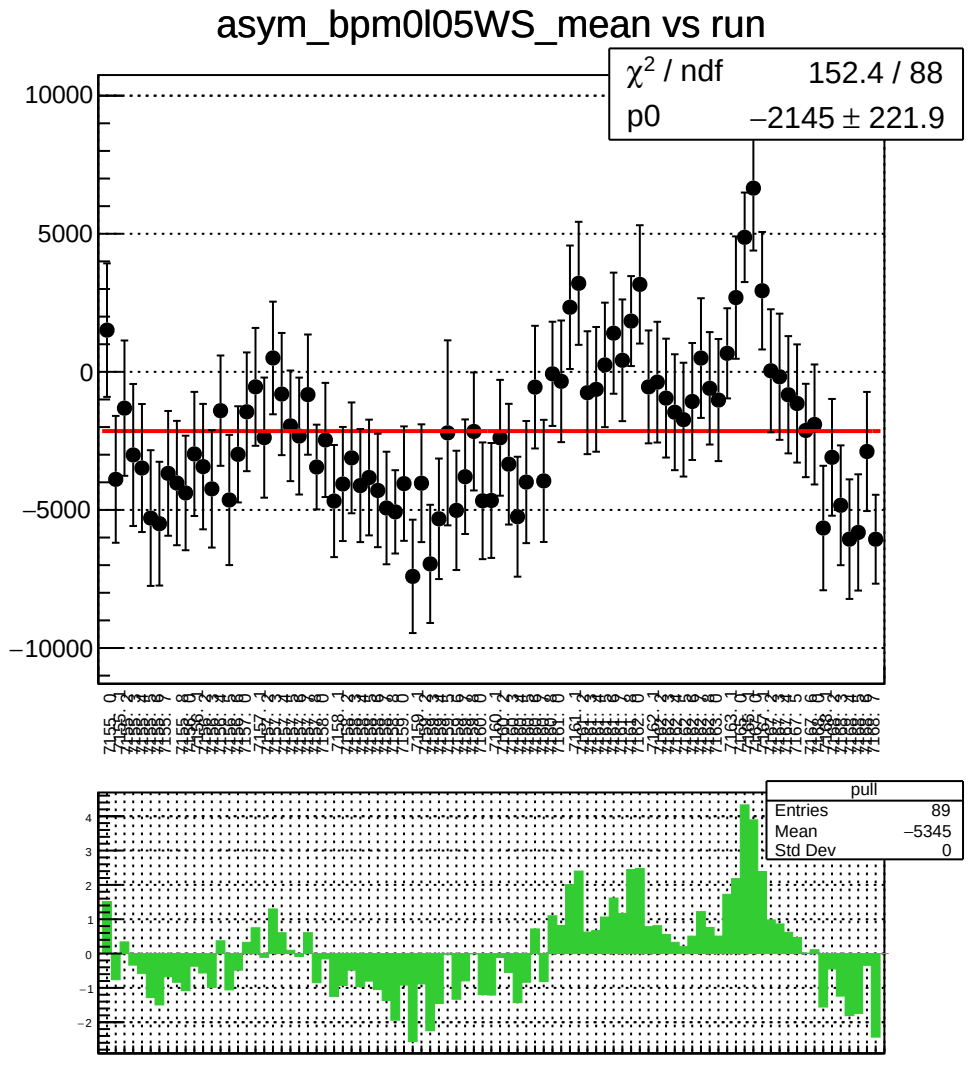

pull1D
Entries 89
Mean 0.1118
Std Dev 1.12
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

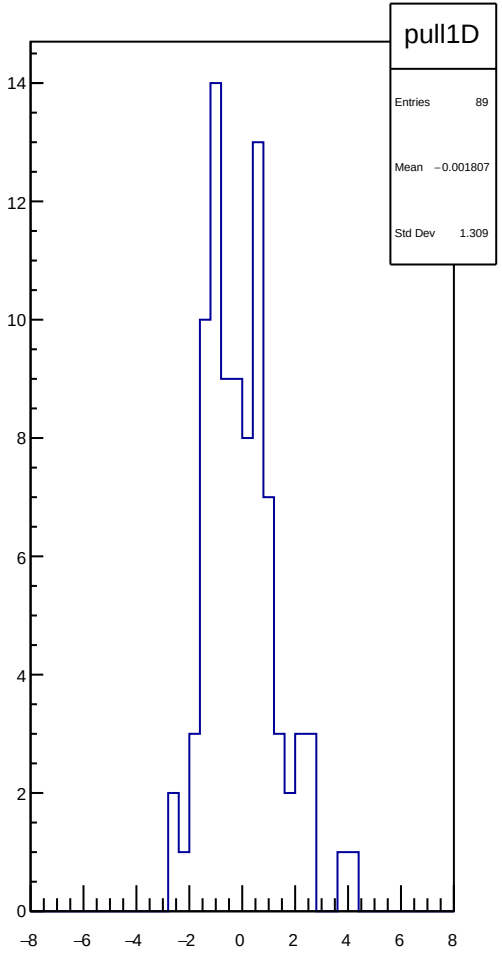

asym_bpm0l03WS_rms vs run
χ² / ndf 4.945e+05 / 88
p0 780.3 ± 0.7019
5000
4000
3000
2000
1000

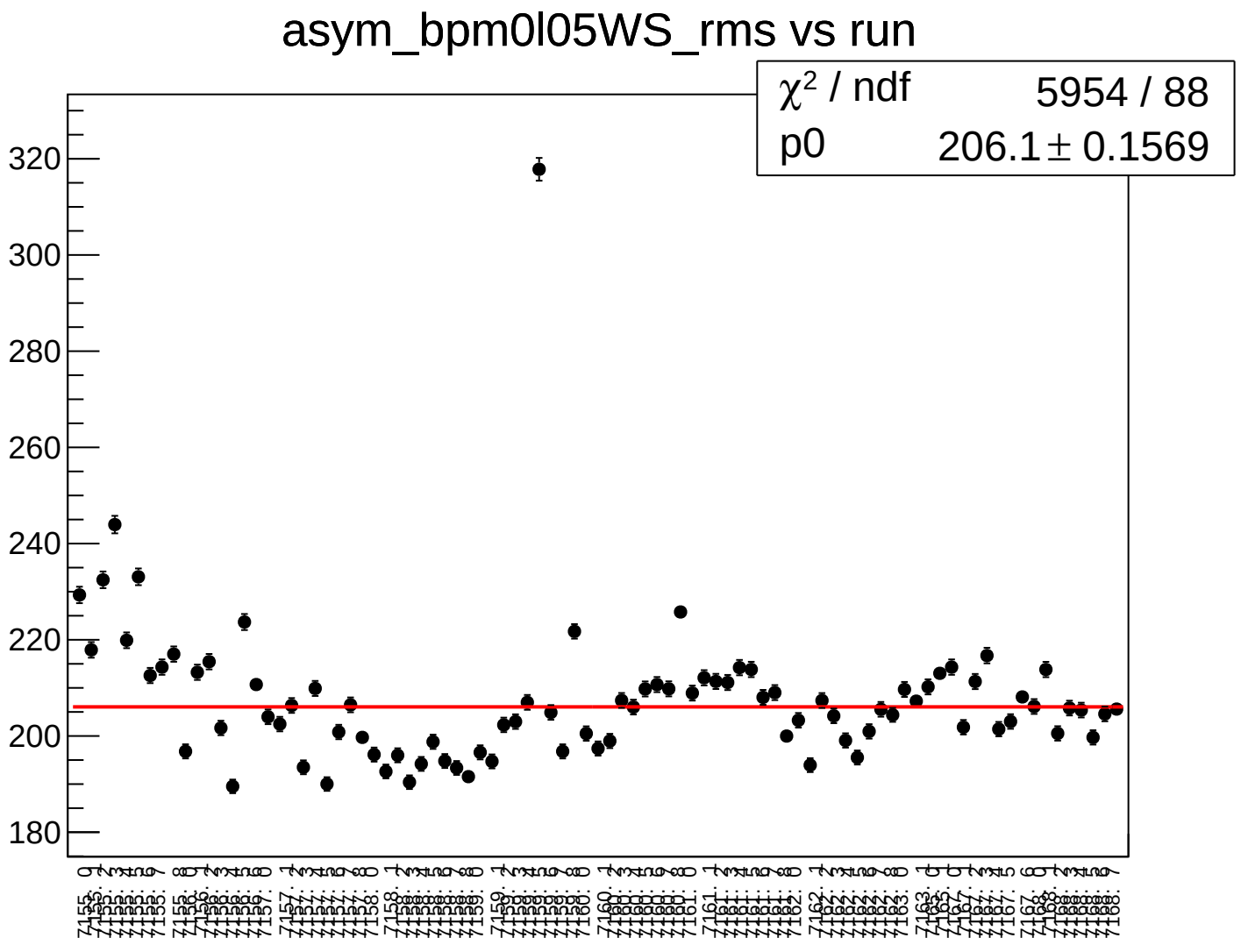

asym_bpm0l04WS_mean vs run
χ² / ndf 159.3 / 88
p0 −2052 ± 220.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1458
Std Dev 0
4
3
2
1
0
−1
−2

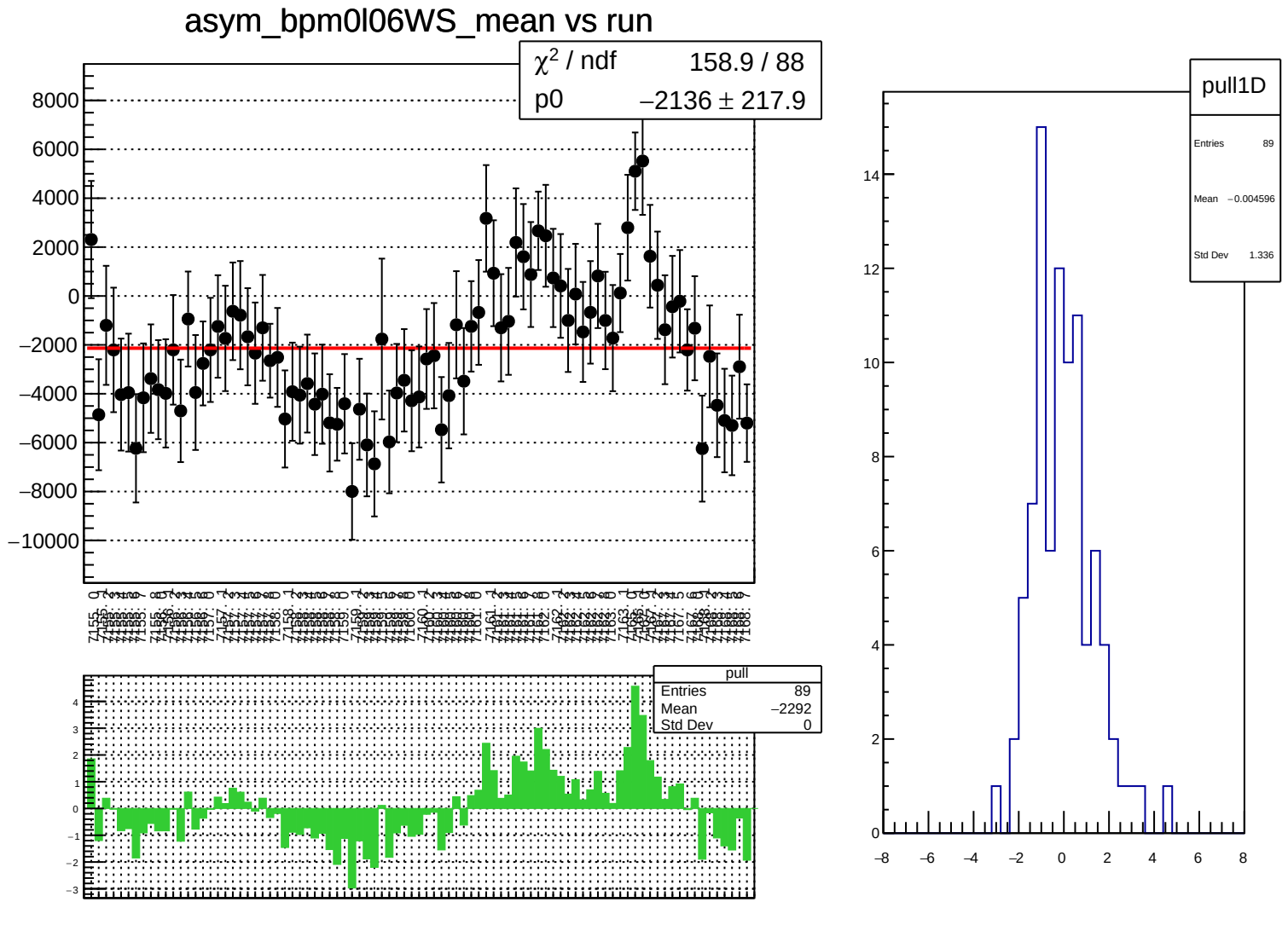

pull1D
Entries 89
Mean −0.007147
Std Dev 1.338
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

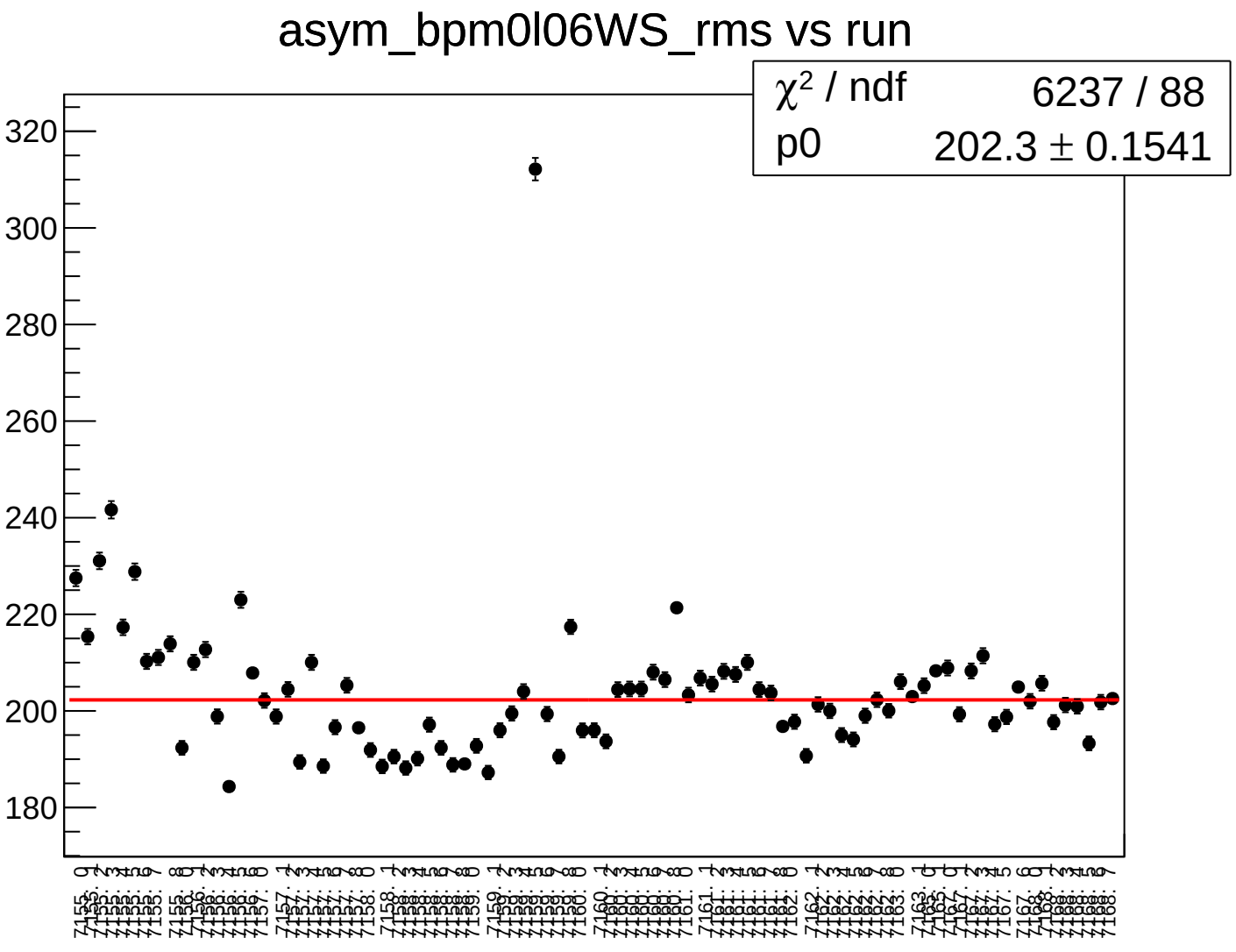

asym_bpm0l04WS_rms vs run
χ² / ndf 6714 / 88
p0 204.5 ± 0.1558
320
300
280
260
240
220
200
180

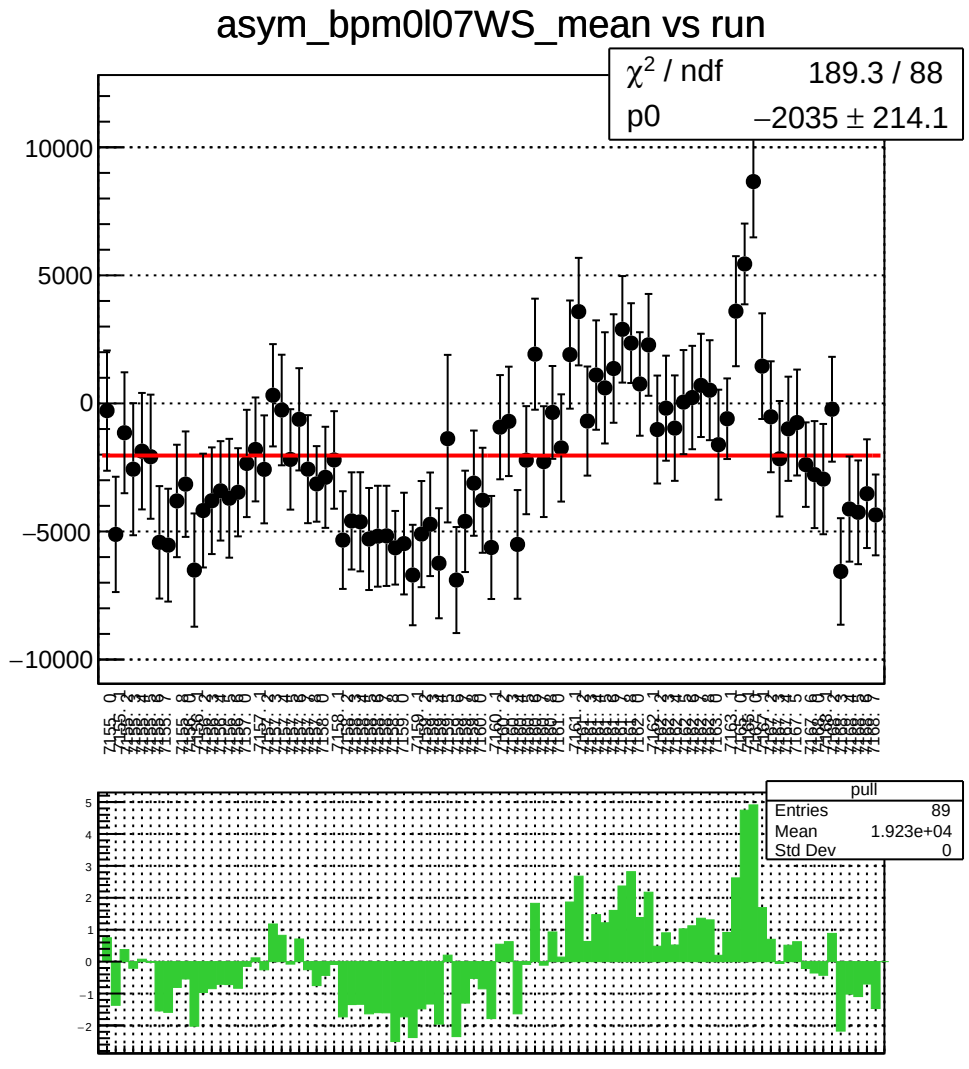

asym_bpm0l05WS_mean vs run
χ² / ndf 152.4 / 88
p0 −2145 ± 221.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −5345
Std Dev 0
4
3
2
1
0
−1
−2

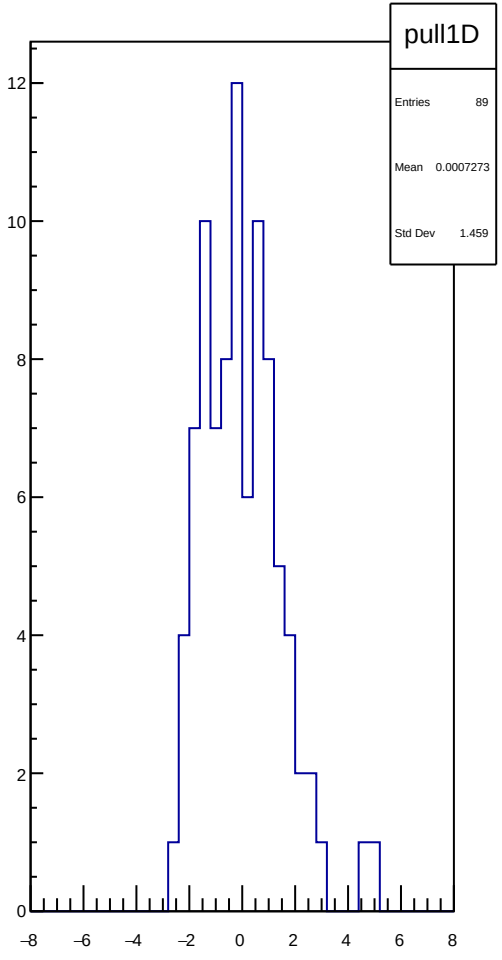

pull1D
Entries 89
Mean −0.001807
Std Dev 1.309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

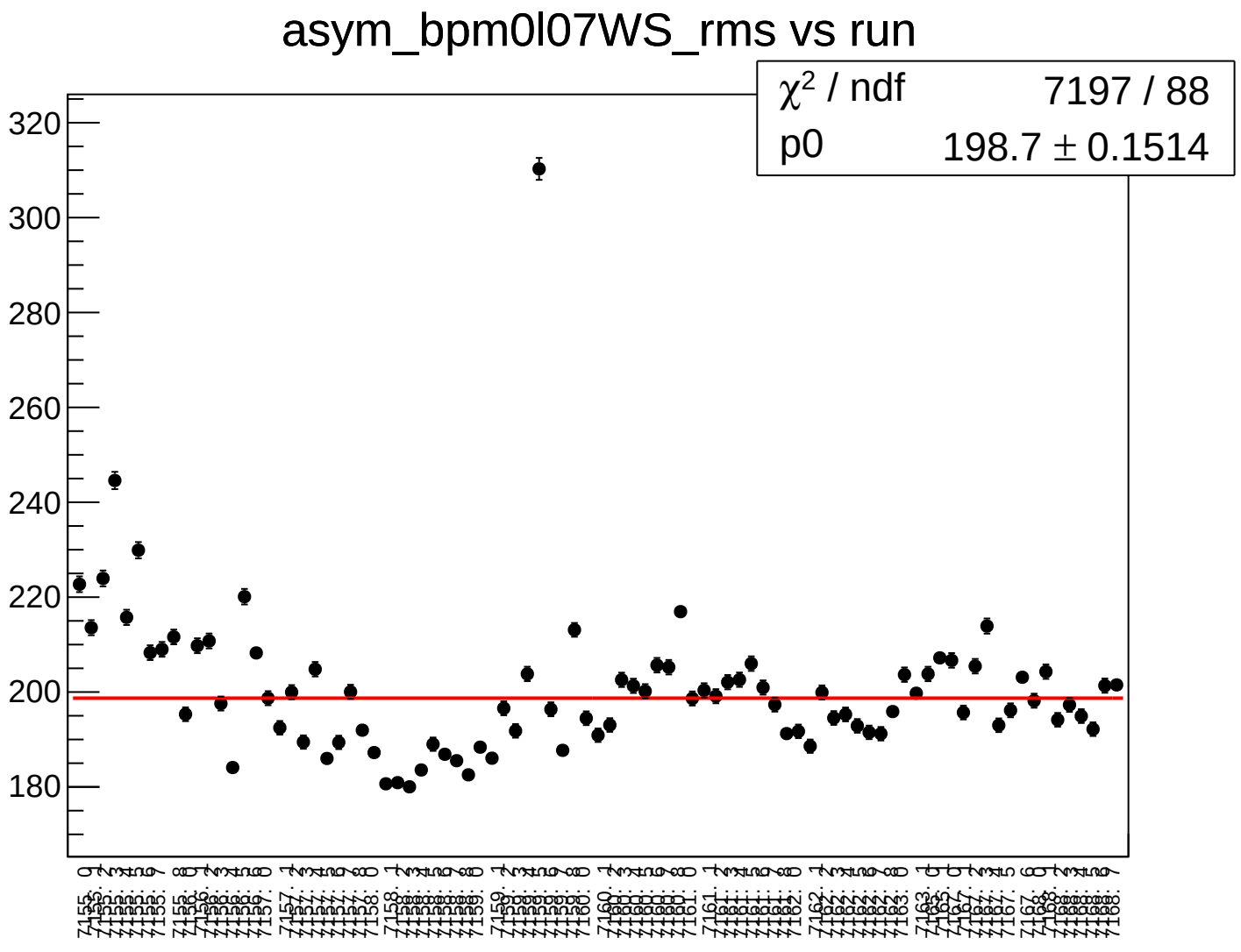

asym_bpm0l05WS_rms vs run
χ² / ndf 5954 / 88
p0 206.1 ± 0.1569
320
300
280
260
240
220
200
180

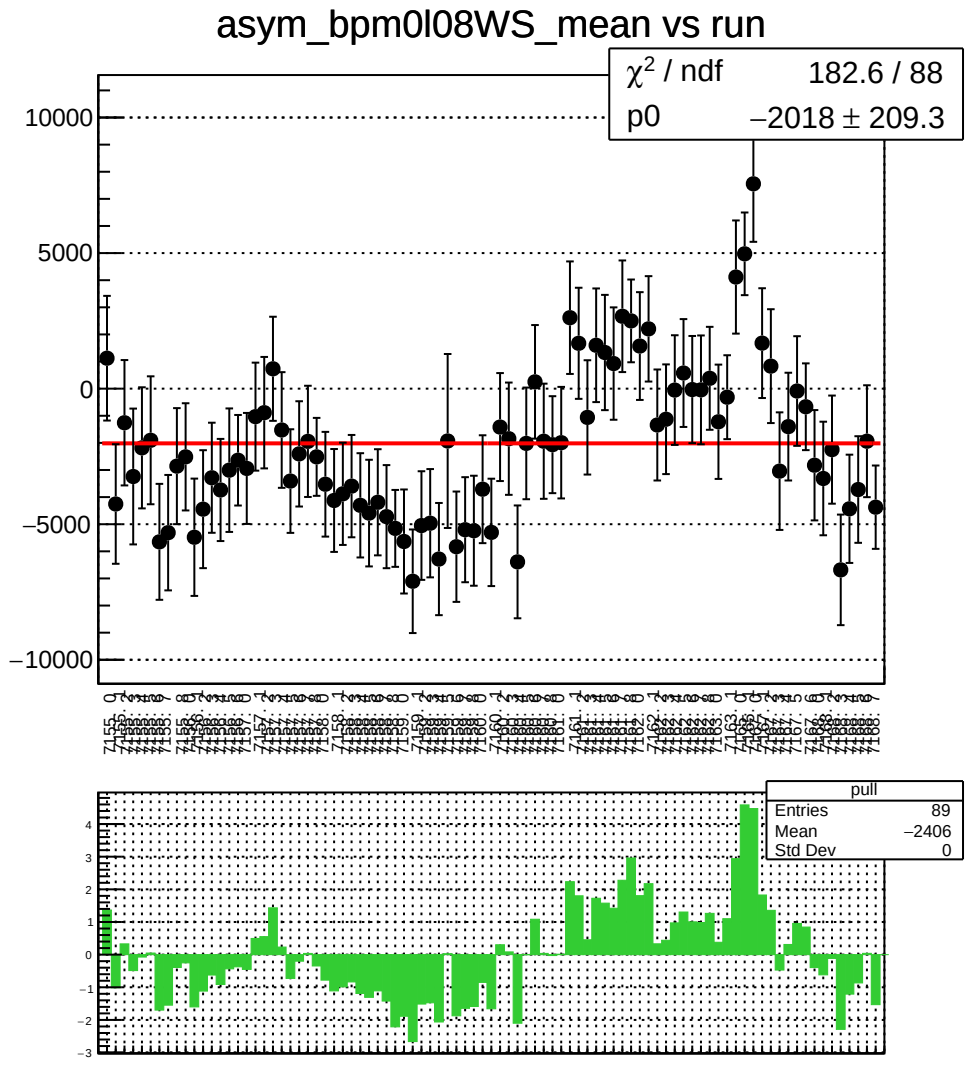

asym_bpm0l06WS_mean vs run
χ² / ndf 158.9 / 88
p0 −2136 ± 217.9
pull
Entries 89
Mean −2292
Std Dev 0
pull1D
Entries 89
Mean −0.004596
Std Dev 1.336

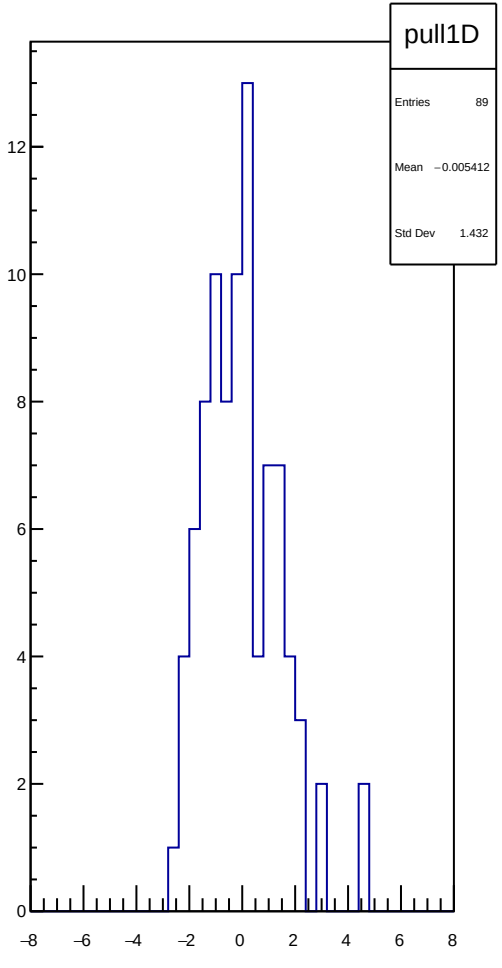

asym_bpm0l06WS_rms vs run
χ² / ndf 6237 / 88
p0 202.3 ± 0.1541
320
300
280
260
240
220
200
180

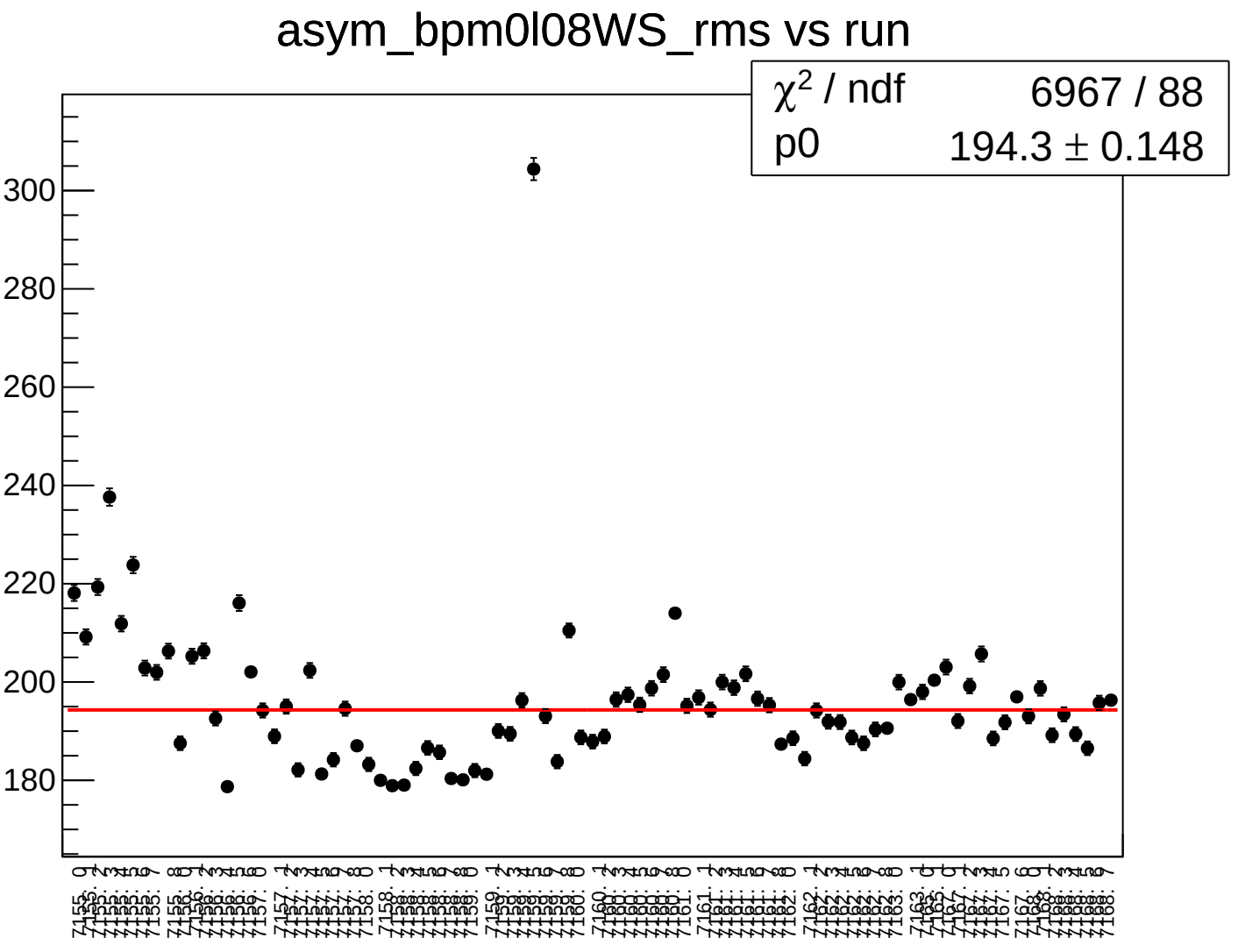

asym_bpm0l07WS_mean vs run
χ² / ndf 189.3 / 88
p0 −2035 ± 214.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1.923e+04
Std Dev 0
5
4
3
2
1
0
−1
−2

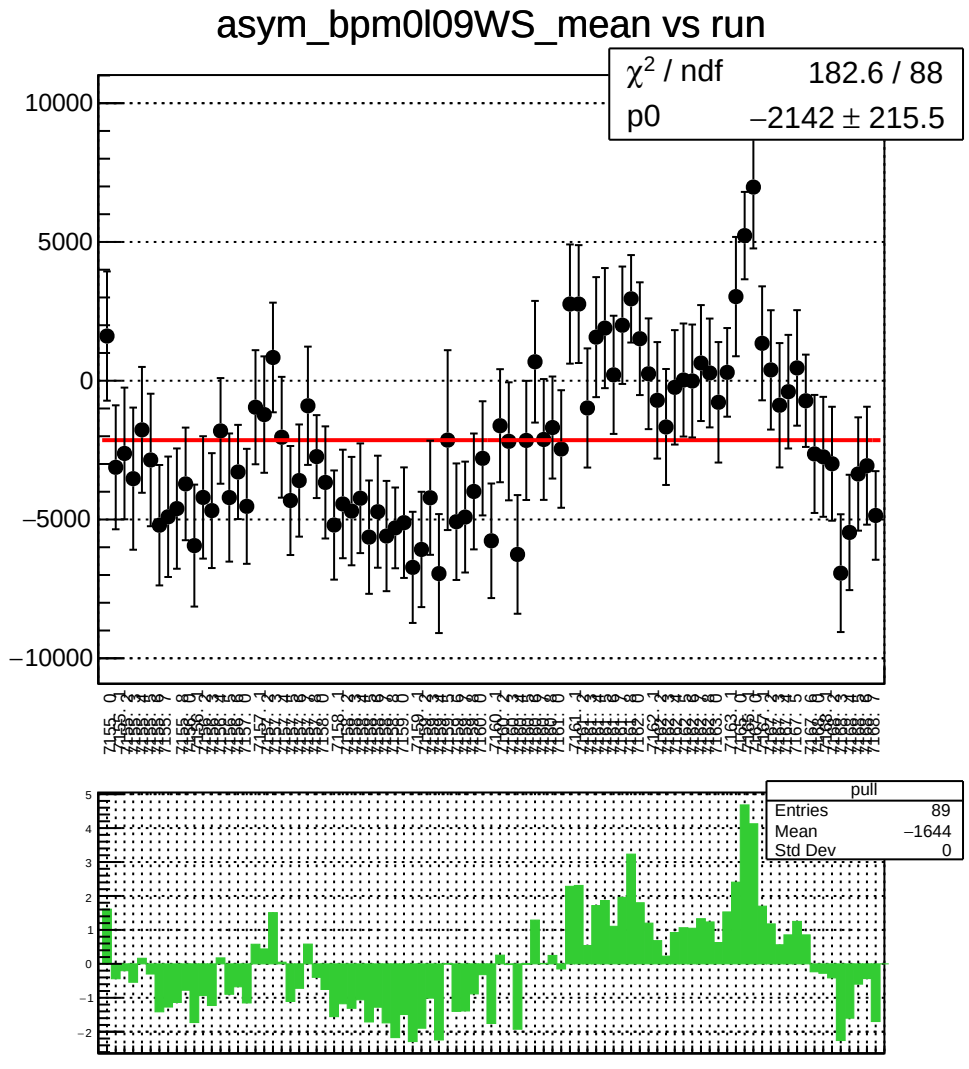

pull1D
Entries 89
Mean 0.0007273
Std Dev 1.459
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

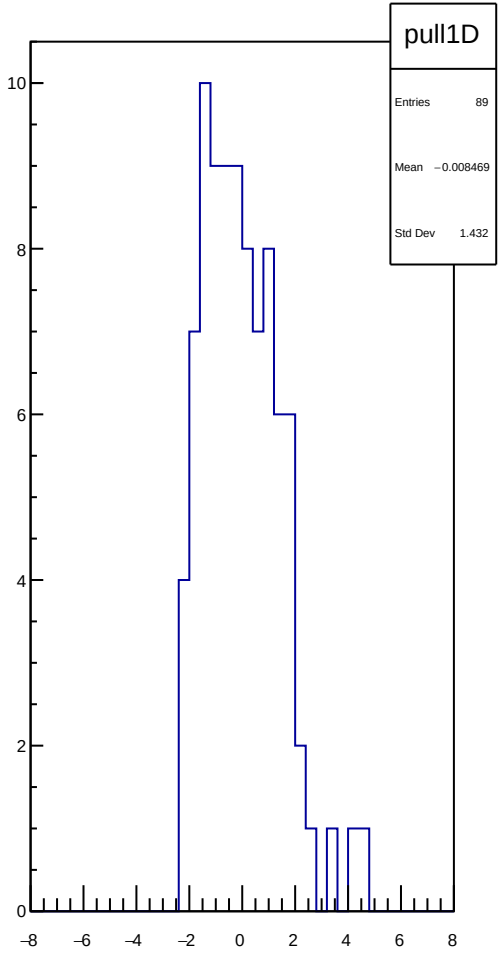

asym_bpm0l07WS_rms vs run
χ² / ndf 7197 / 88
p0 198.7 ± 0.1514
320
300
280
260
240
220
200
180

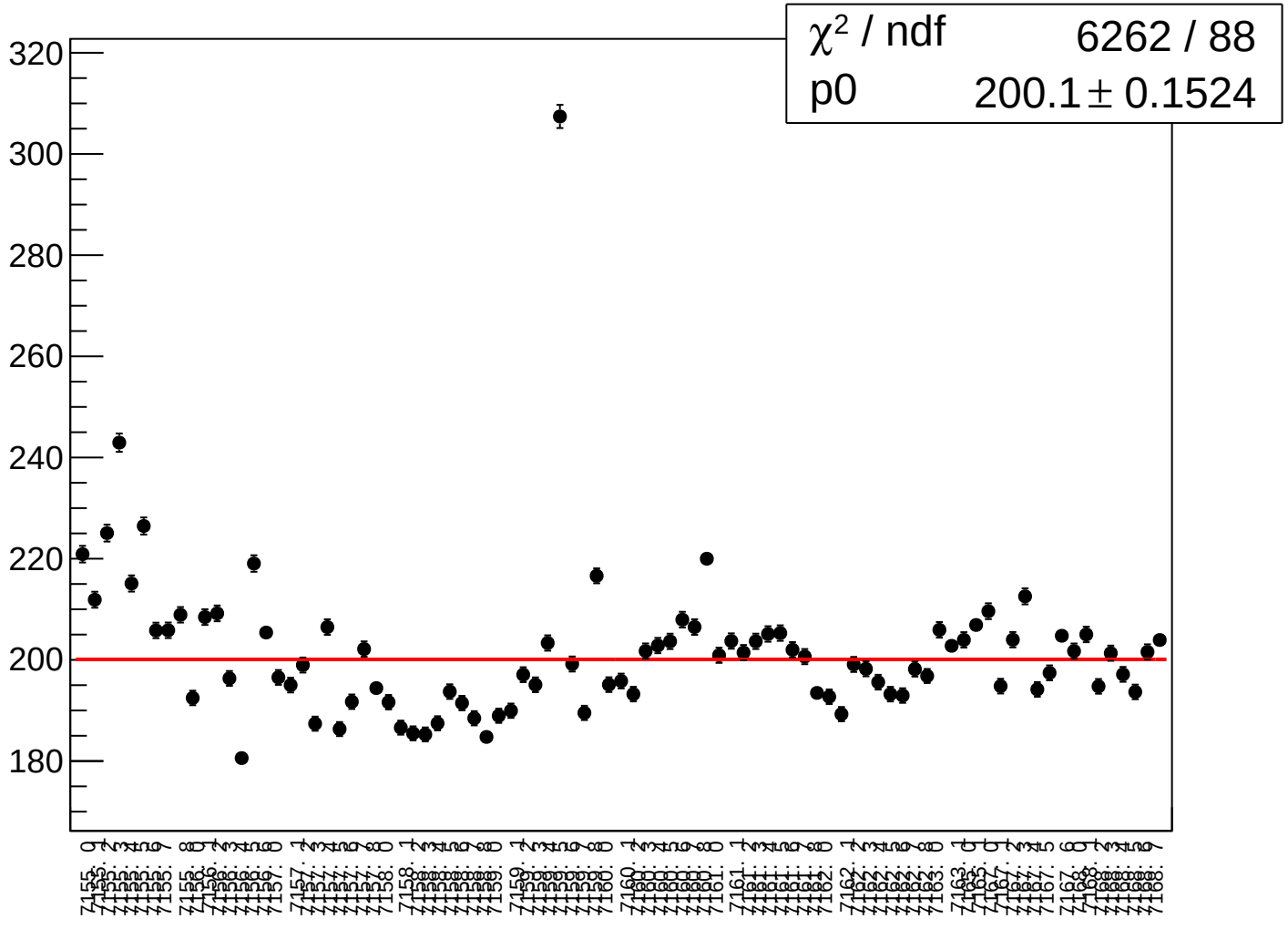

asym_bpm0l08WS_mean vs run
χ² / ndf 182.6 / 88
p0 −2018 ± 209.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2406
Std Dev 0
4
3
2
1
0
−1
−2
−3

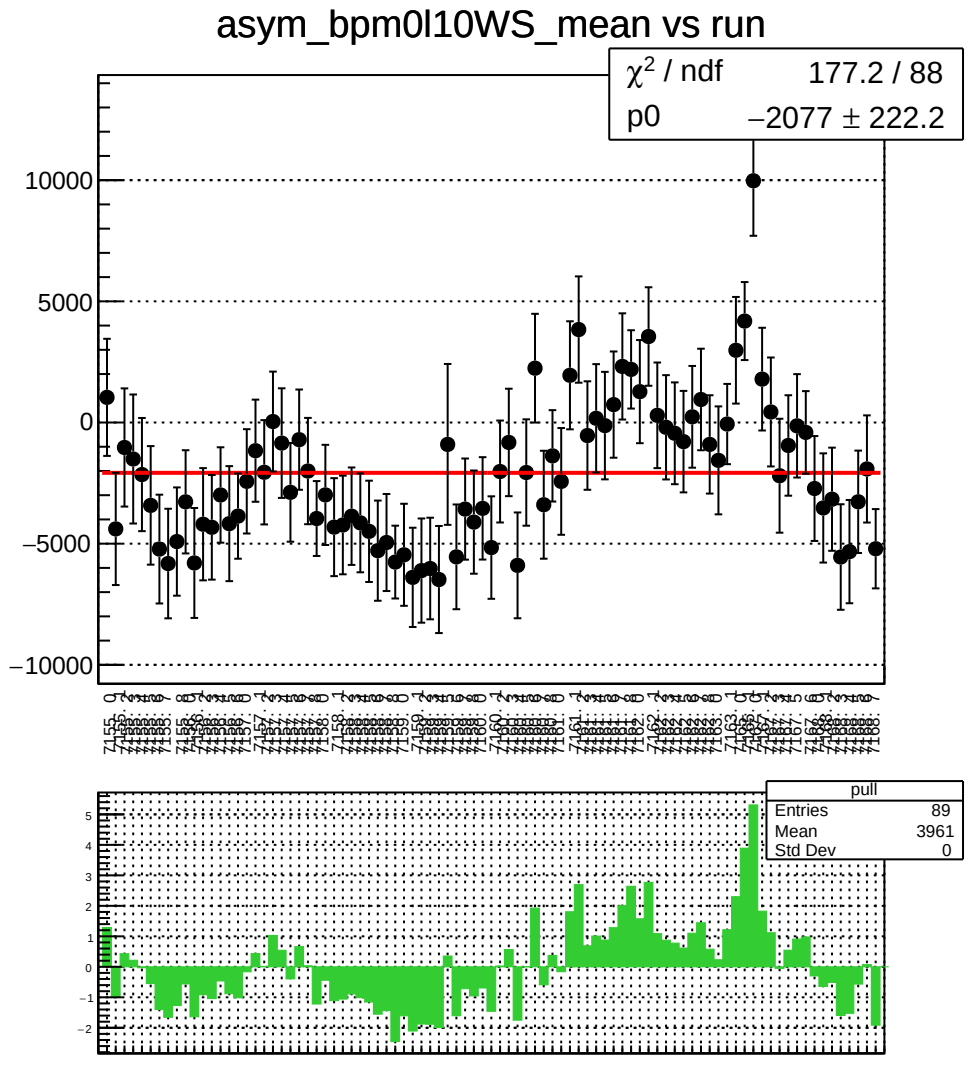

pull1D
Entries 89
Mean −0.005412
Std Dev 1.432
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

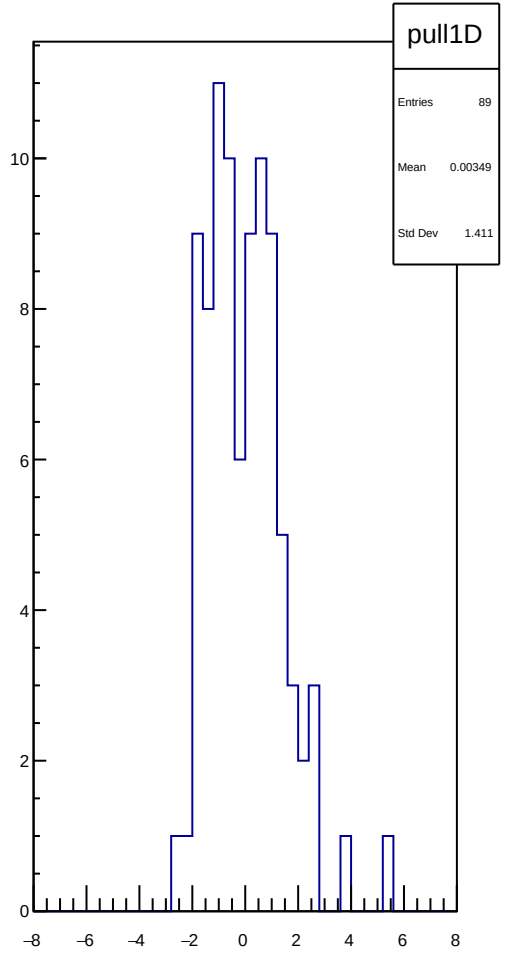

asym_bpm0l08WS_rms vs run
χ^2 / ndf 6967 / 88
p0 194.3 ± 0.148
300
280
260
240
220
200
180

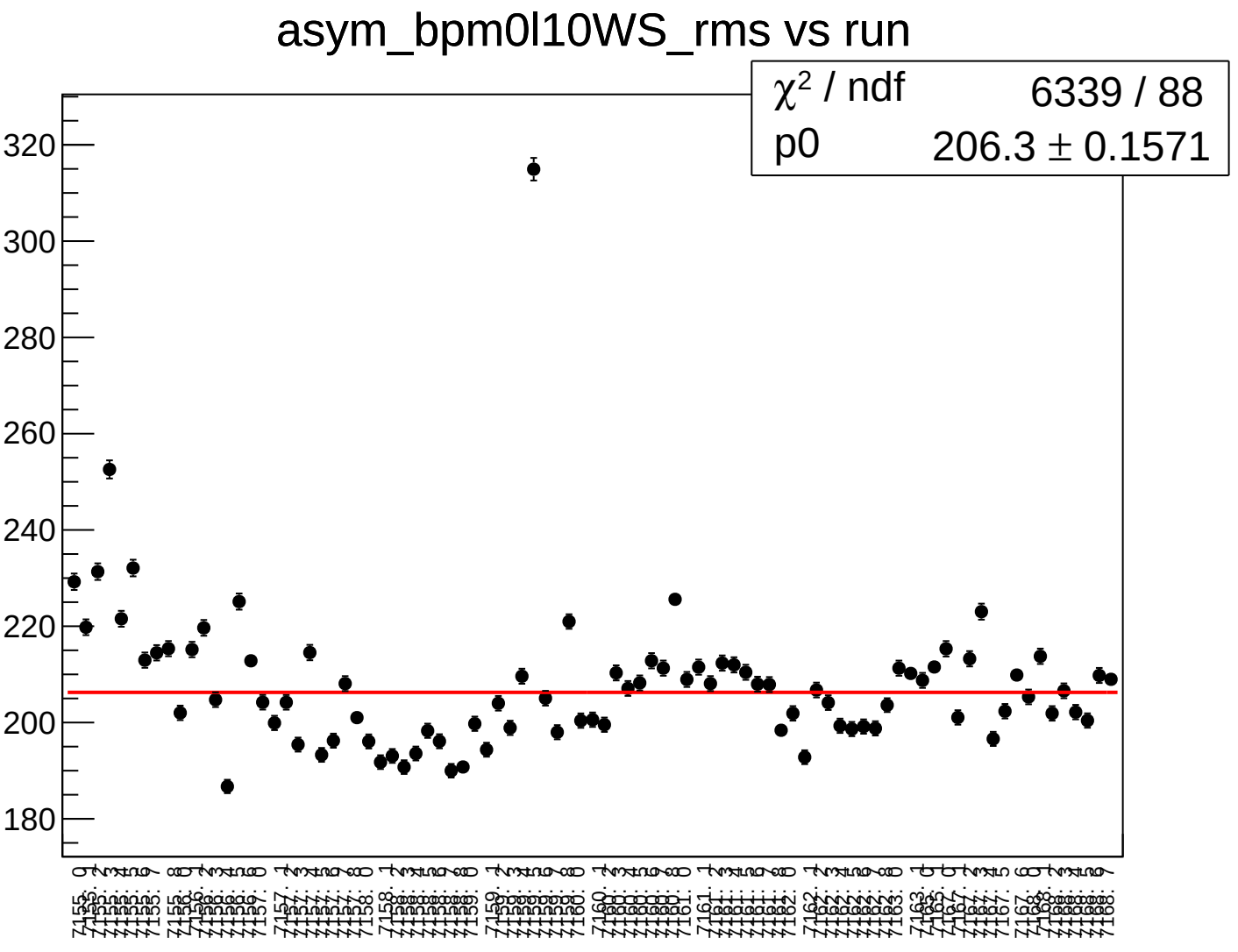

asym_bpm0l09WS_mean vs run
χ² / ndf 182.6 / 88
p0 −2142 ± 215.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1644
Std Dev 0
5
4
3
2
1
0
−1
−2

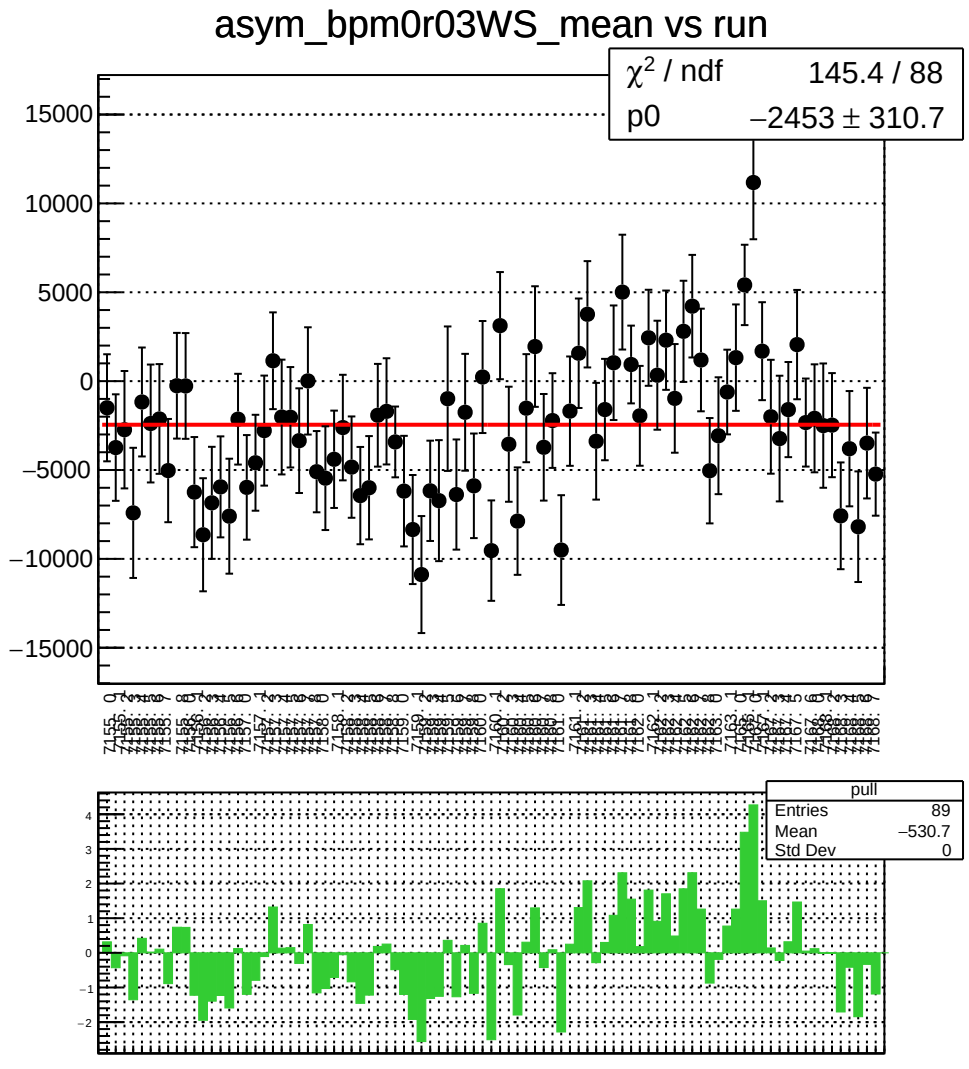

pull1D
Entries 89
Mean −0.008469
Std Dev 1.432
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

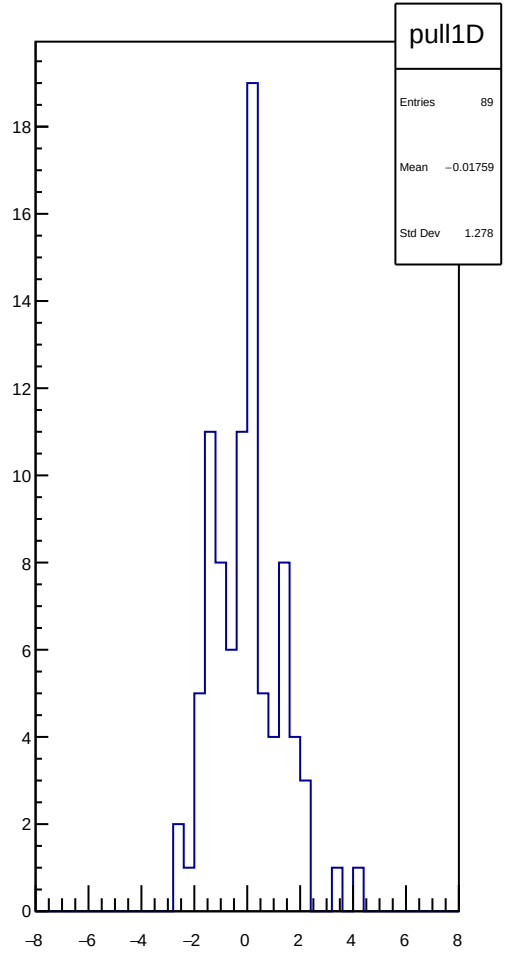

asym_bpm0l09WS_rms vs run
χ² / ndf 6262 / 88
p0 200.1 ± 0.1524
320
300
280
260
240
220
200
180

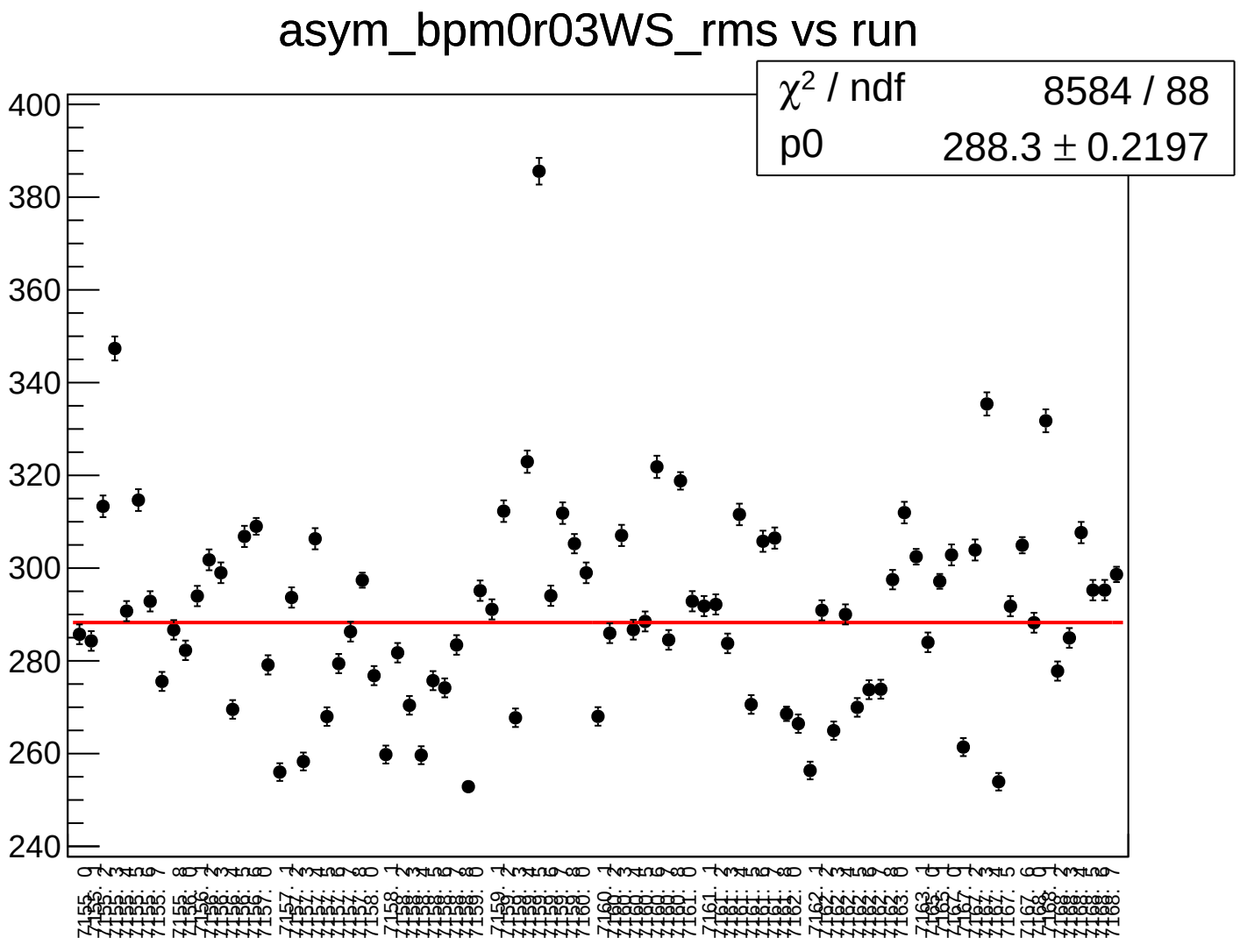

asym_bpm0l10WS_mean vs run
χ² / ndf 177.2 / 88
p0 −2077 ± 222.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 3961
Std Dev 0
5
4
3
2
1
0
−1
−2

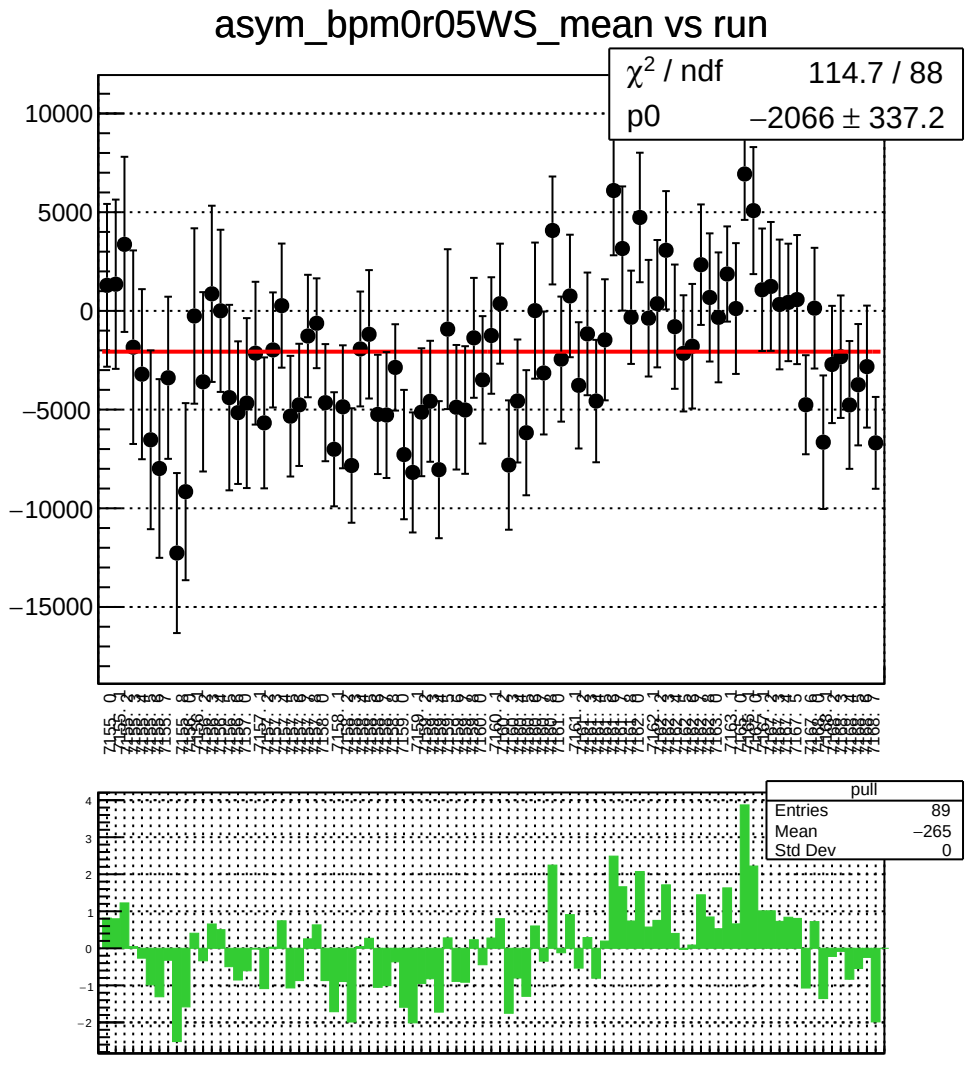

pull1D
Entries 89
Mean 0.00349
Std Dev 1.411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

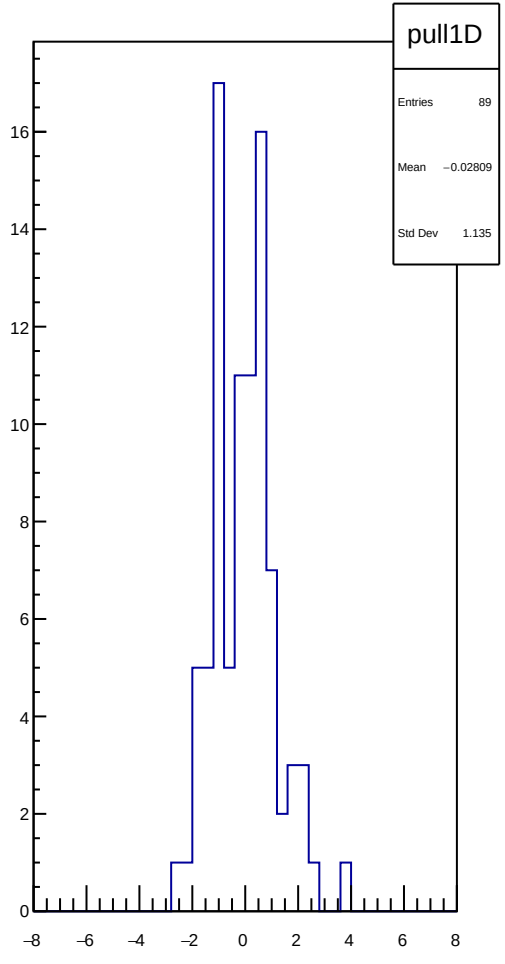

asym_bpm0l10WS_rms vs run
χ² / ndf 6339 / 88
p0 206.3 ± 0.1571
320
300
280
260
240
220
200
180

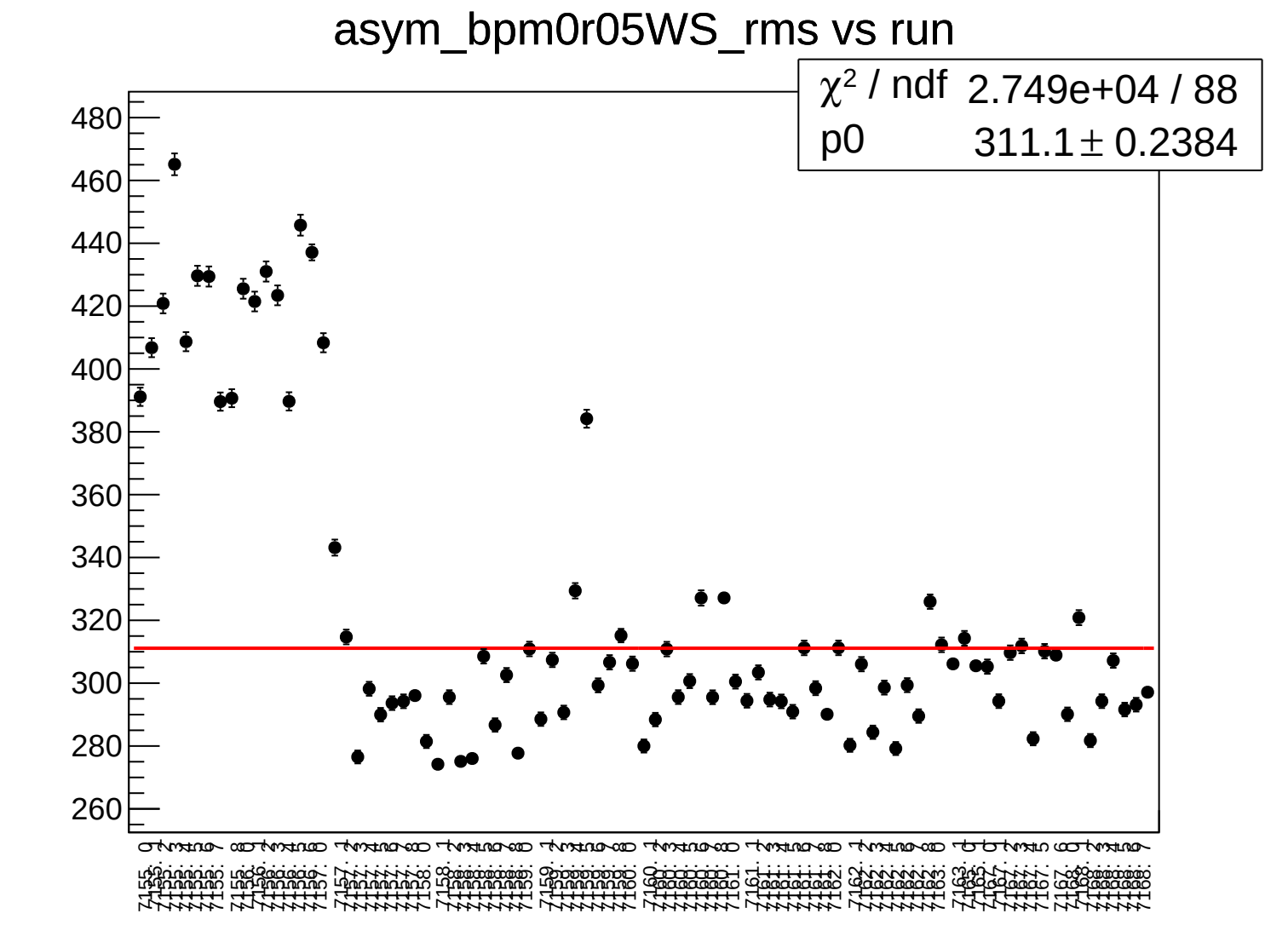

asym_bpm0r03WS_mean vs run
χ² / ndf 145.4 / 88
p0 −2453 ± 310.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −530.7
Std Dev 0
4
3
2
1
0
−1
−2

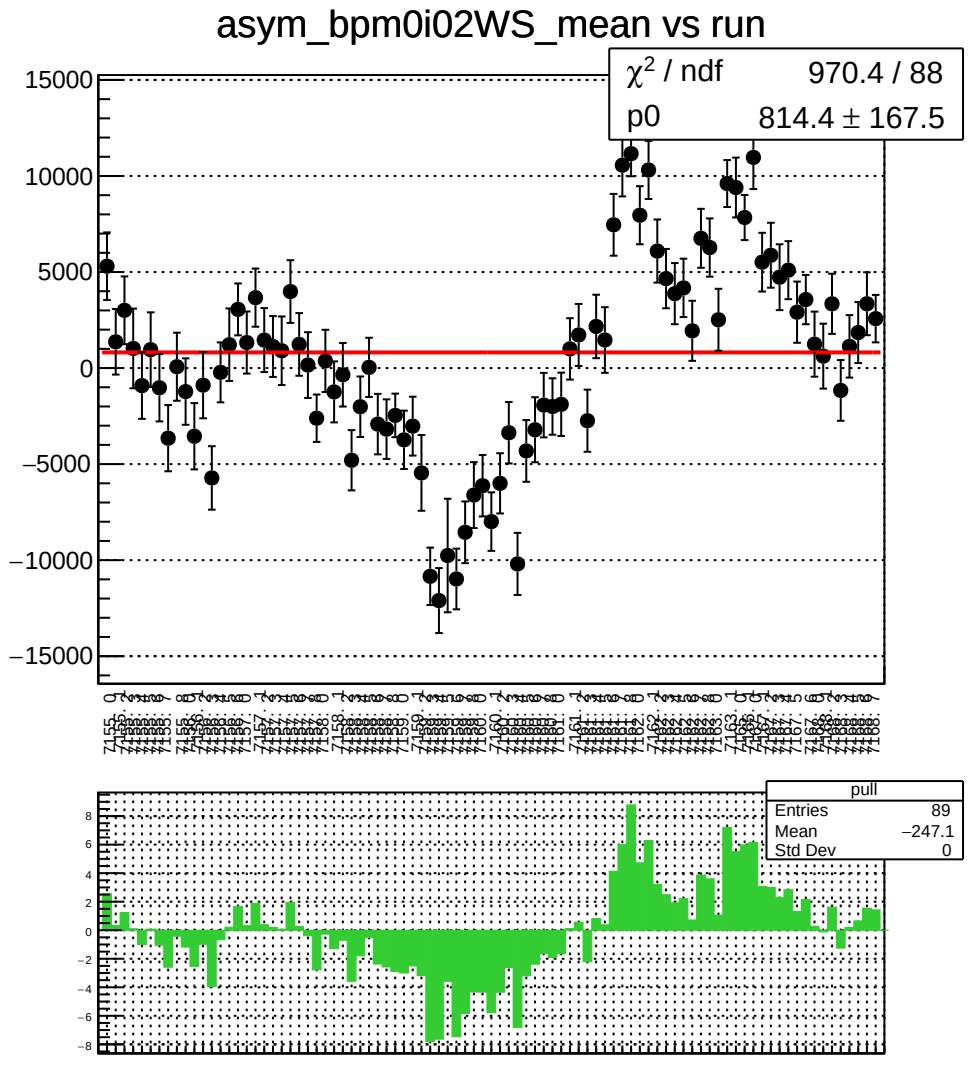

pull1D
Entries 89
Mean −0.01759
Std Dev 1.278
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

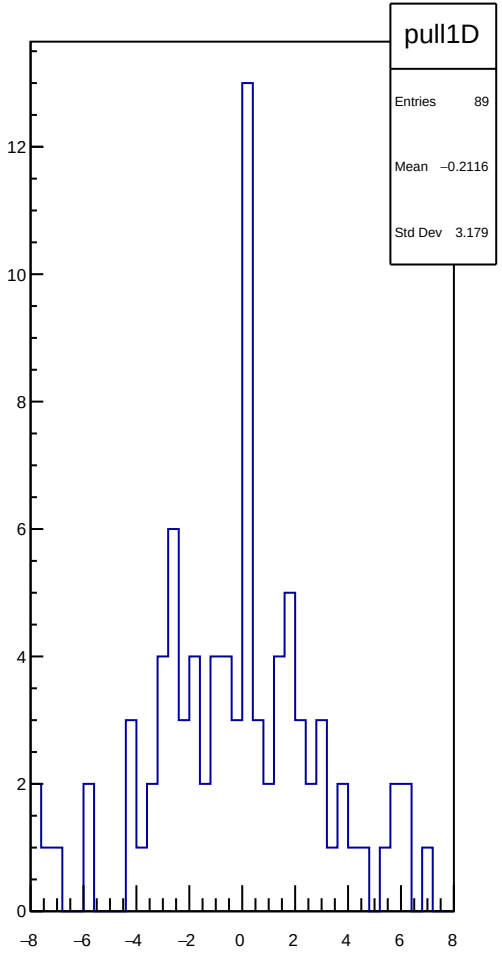

asym_bpm0r03WS_rms vs run
χ² / ndf 8584 / 88
p0 288.3 ± 0.2197
400
380
360
340
320
300
280
260
240

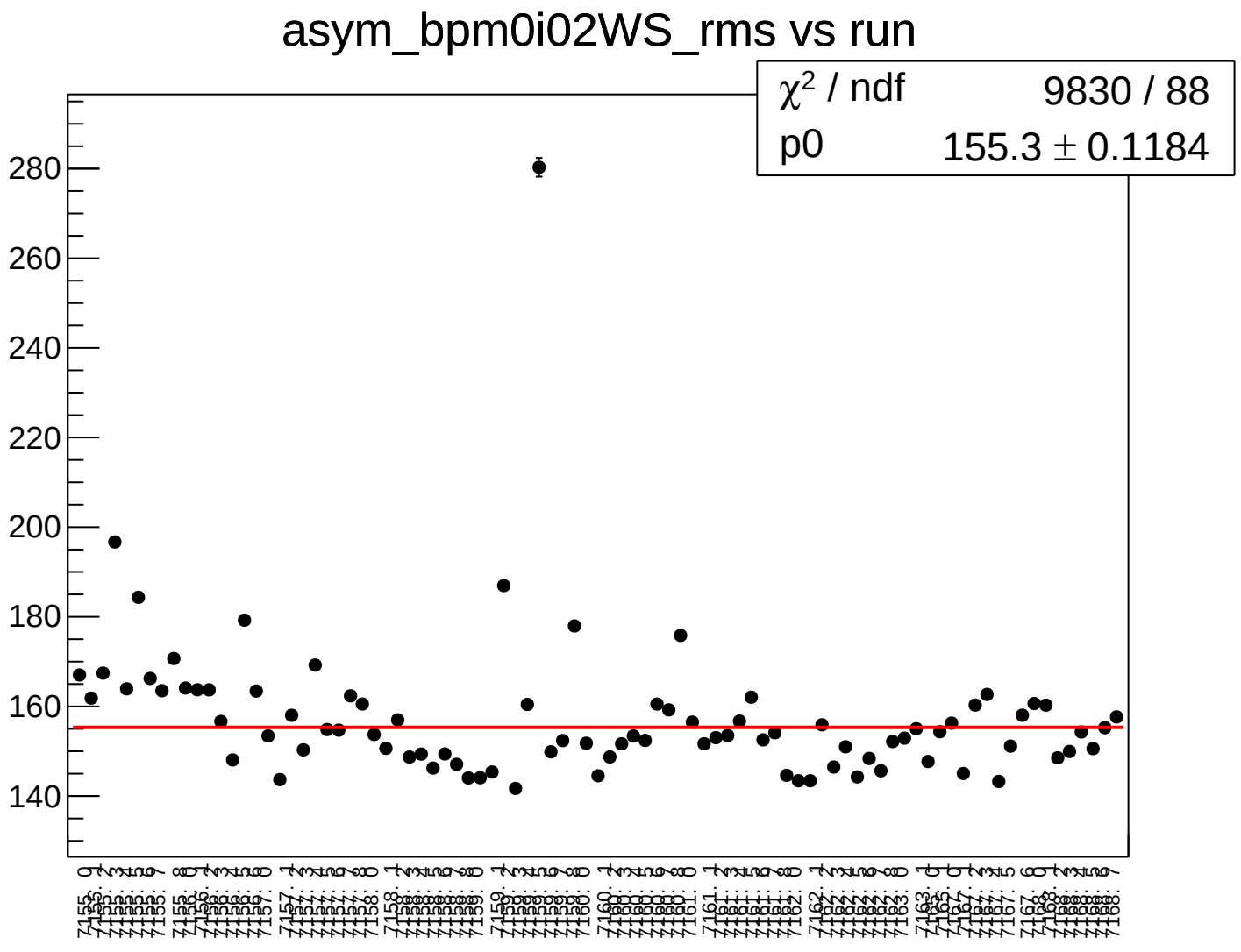

asym_bpm0r05WS_mean vs run
χ² / ndf 114.7 / 88
p0 −2066 ± 337.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −265
Std Dev 0
4
3
2
1
0
−1
−2

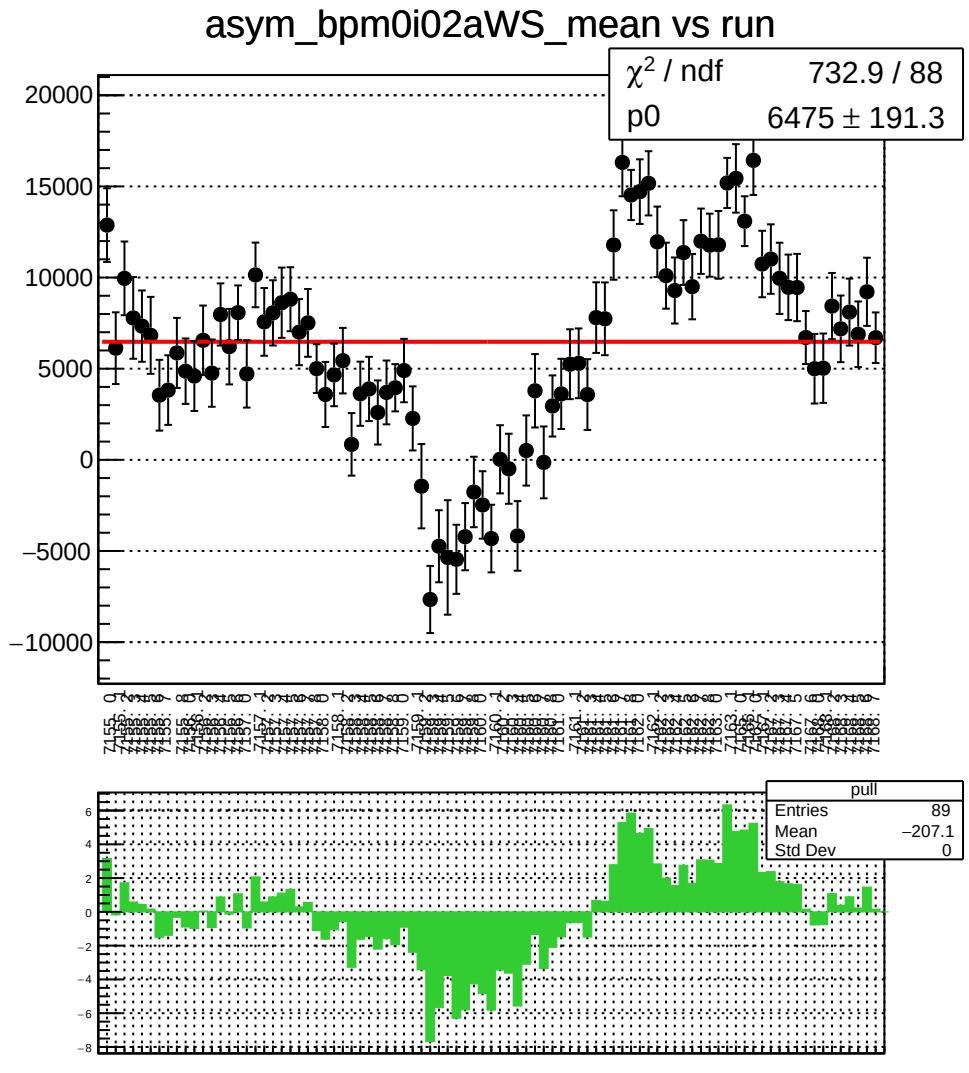

pull1D
Entries 89
Mean −0.02809
Std Dev 1.135
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

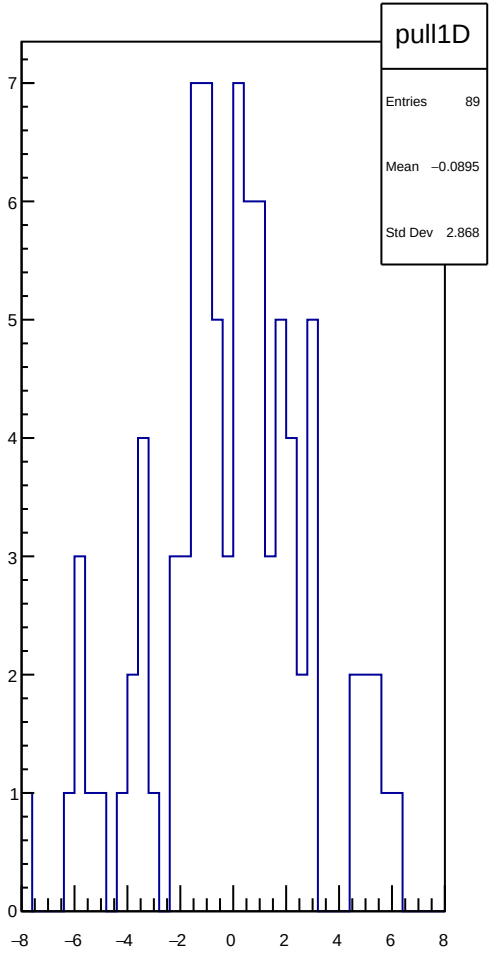

asym_bpm0r05WS_rms vs run
χ² / ndf 2.749e+04 / 88
p0 311.1 ± 0.2384
480
460
440
420
400
380
360
340
320
300
280
260

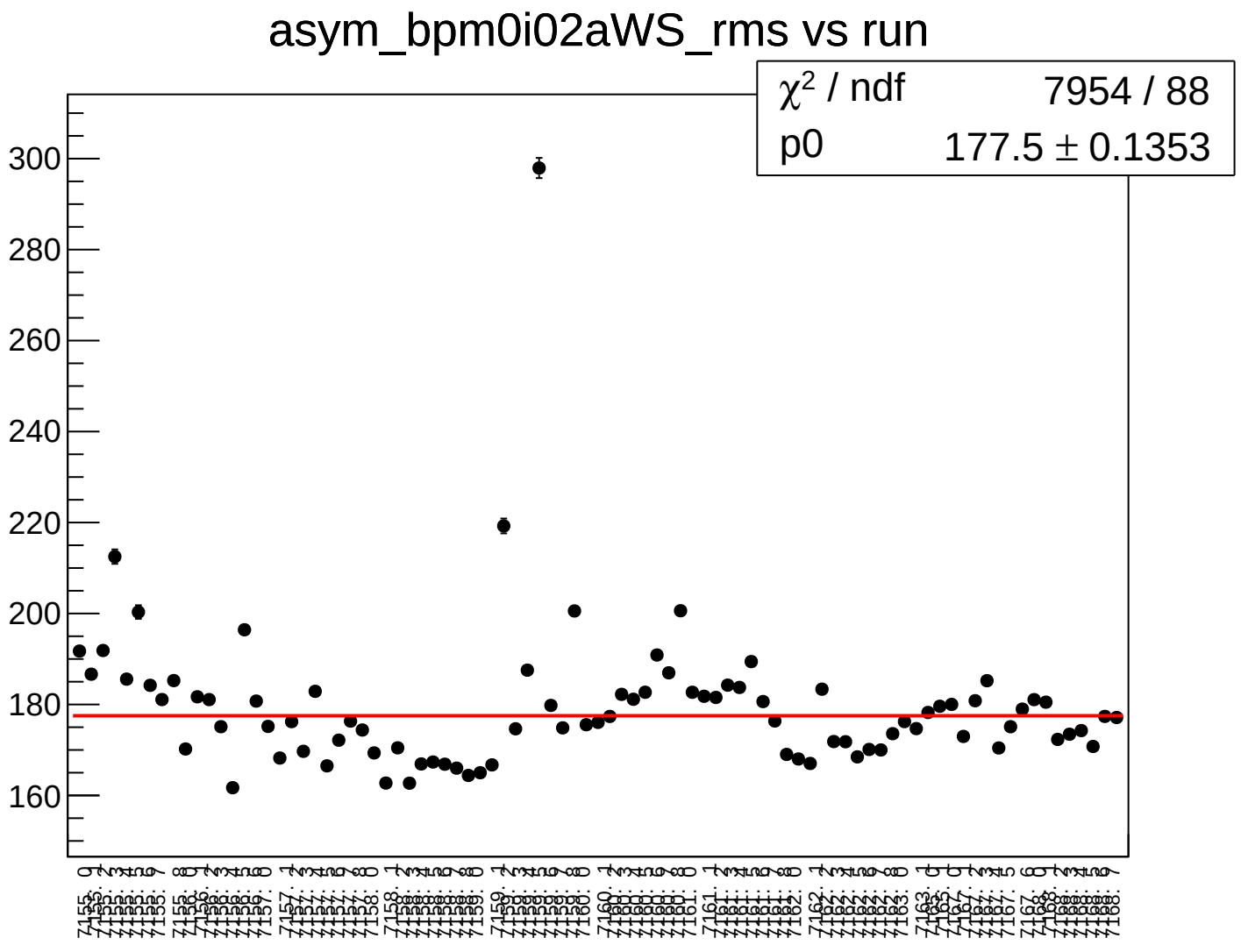

asym_bpm0i02WS_mean vs run
χ² / ndf 970.4 / 88
p0 814.4 ± 167.5
pull
Entries 89
Mean −247.1
Std Dev 0

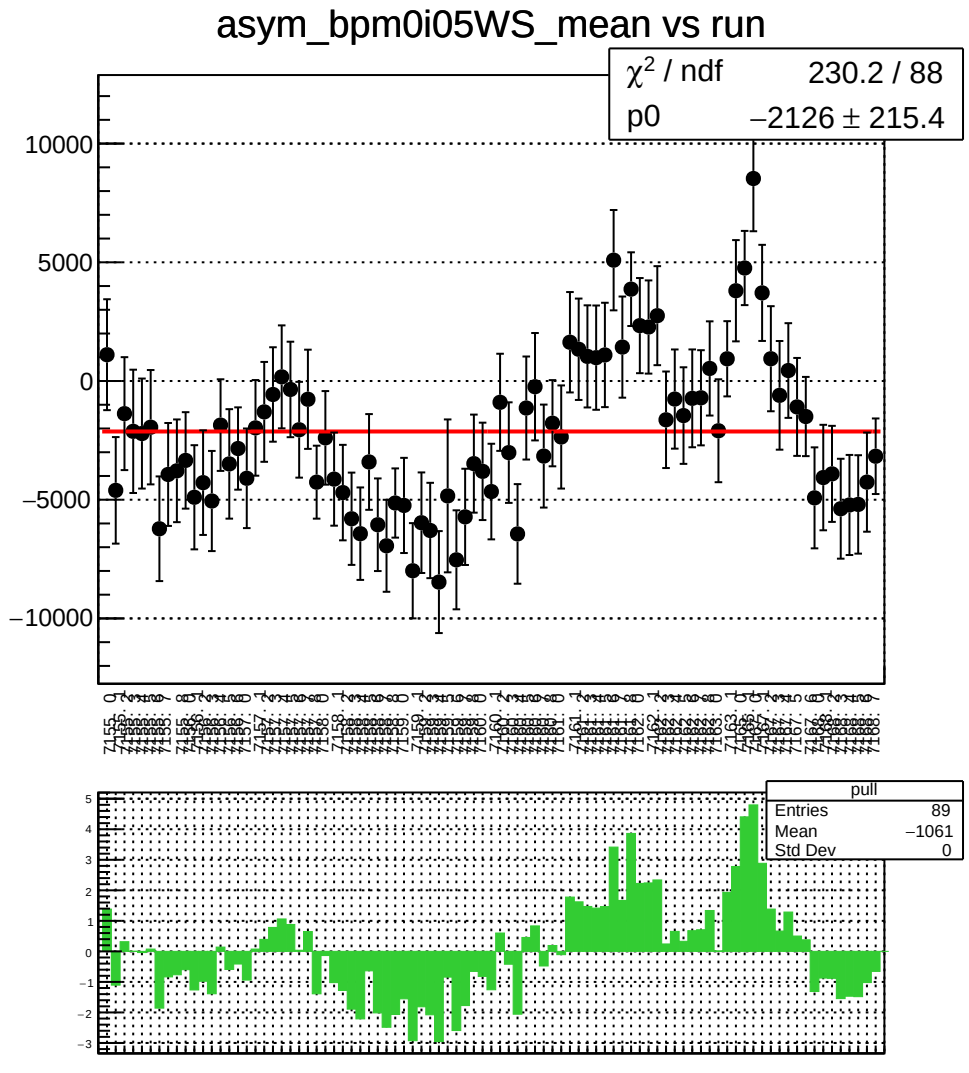

pull1D
Entries 89
Mean −0.2116
Std Dev 3.179

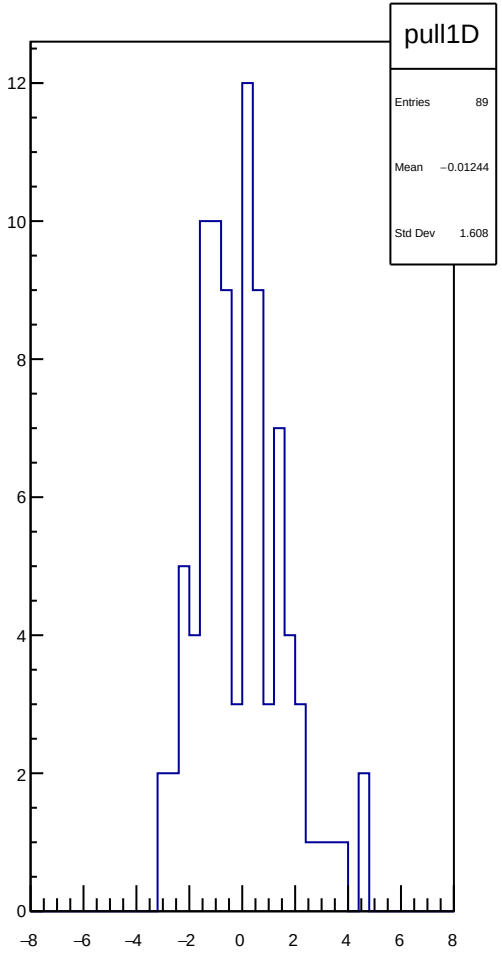

asym_bpm0i02WS_rms vs run
χ^2 / ndf 9830 / 88
p0 155.3 ± 0.1184
280
260
240
220
200
180
160
140

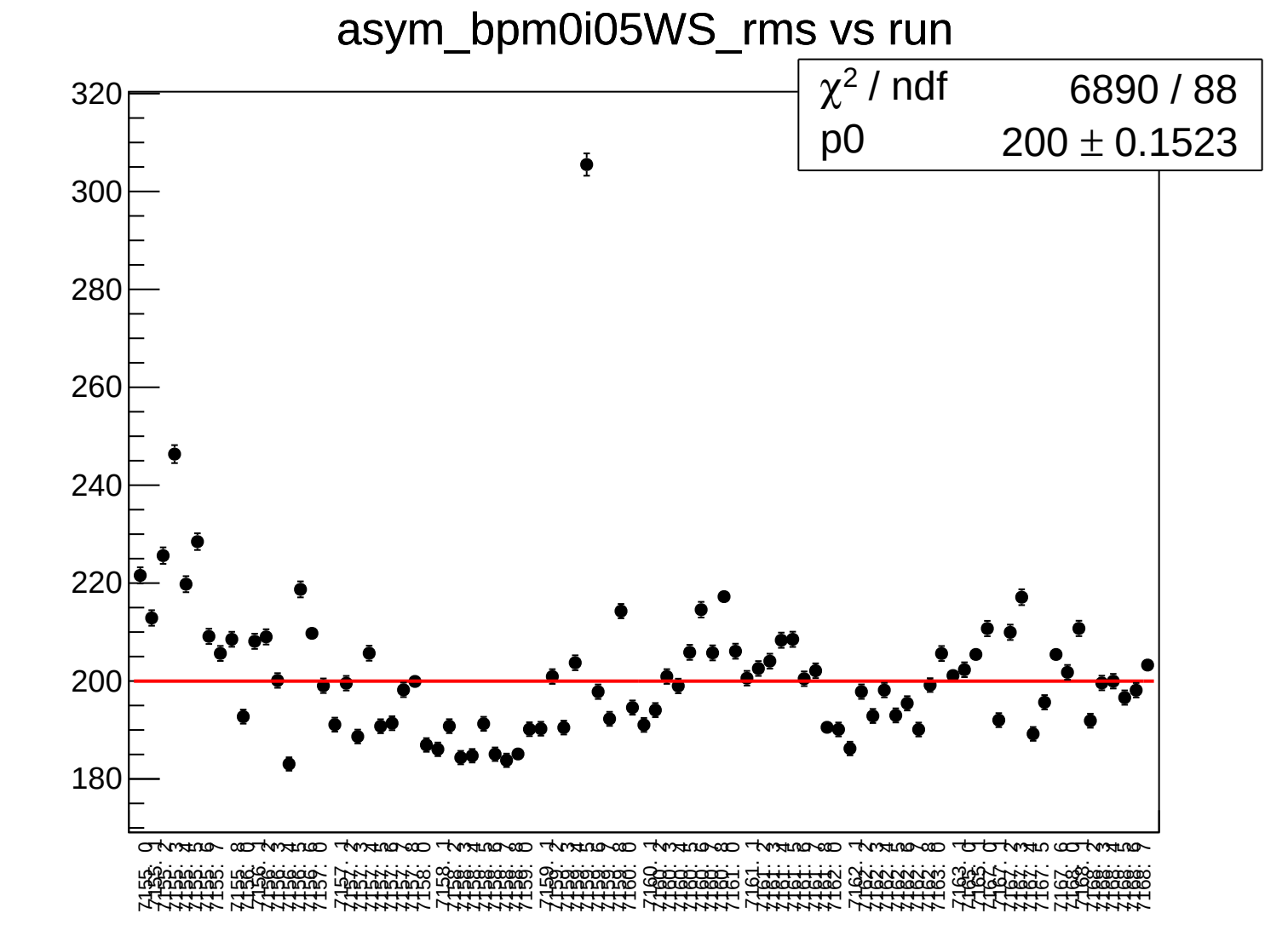

asym_bpm0i02aWS_mean vs run
χ² / ndf 732.9 / 88
p0 6475 ± 191.3
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −207.1
Std Dev 0
6
4
2
0
−2
−4
−6
−8

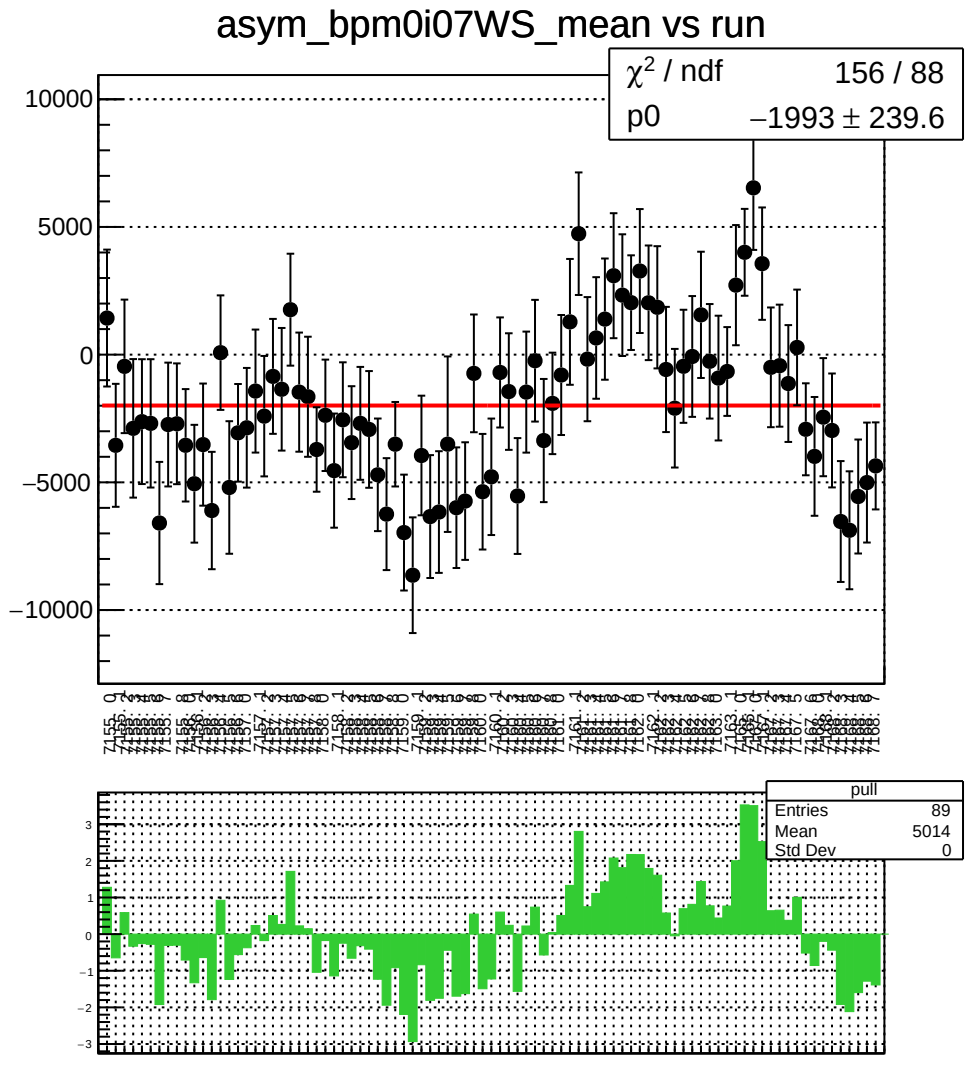

pull1D
Entries 89
Mean −0.0895
Std Dev 2.868
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

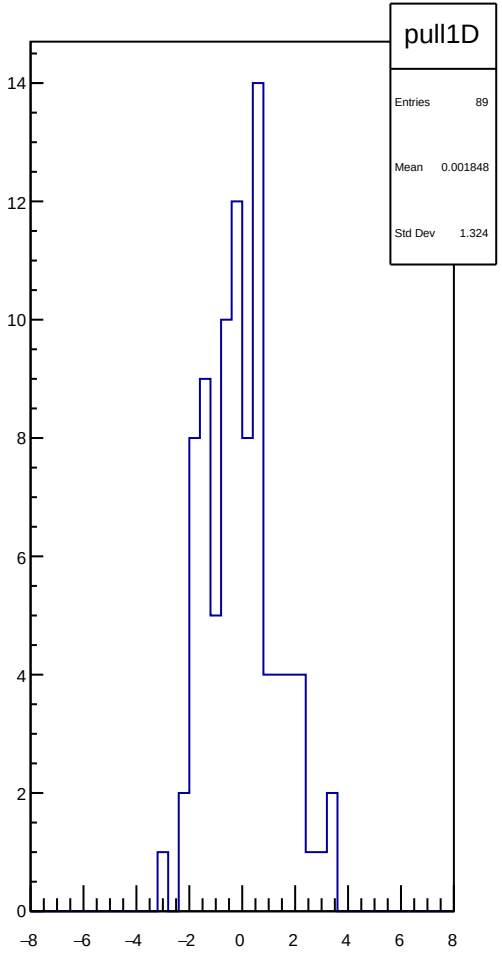

asym_bpm0i02aWS_rms vs run
χ² / ndf 7954 / 88
p0 177.5 ± 0.1353
300
280
260
240
220
200
180
160

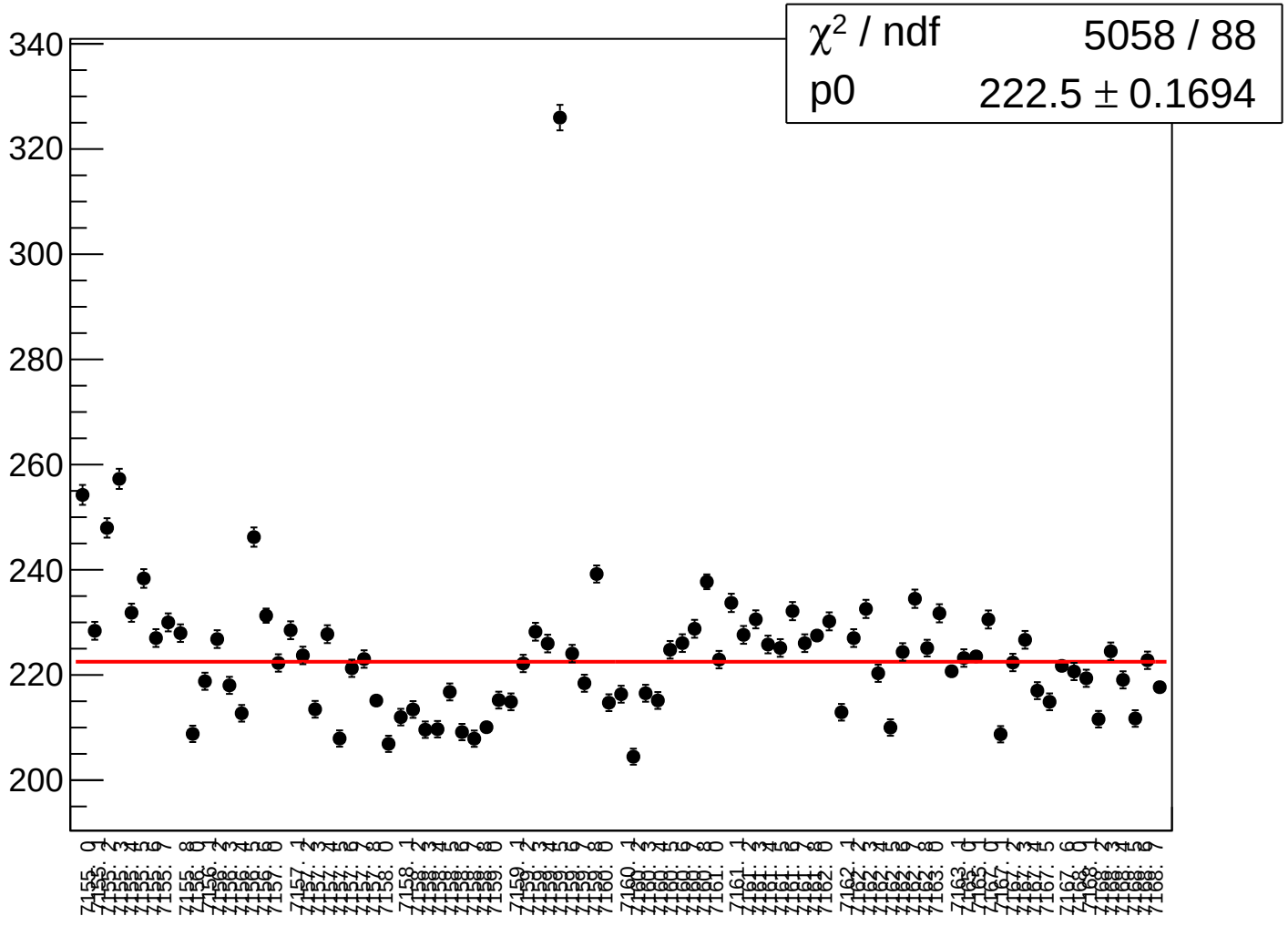

asym_bpm0i05WS_mean vs run
χ² / ndf 230.2 / 88
p0 −2126 ± 215.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −1061
Std Dev 0
5
4
3
2
1
0
−1
−2
−3

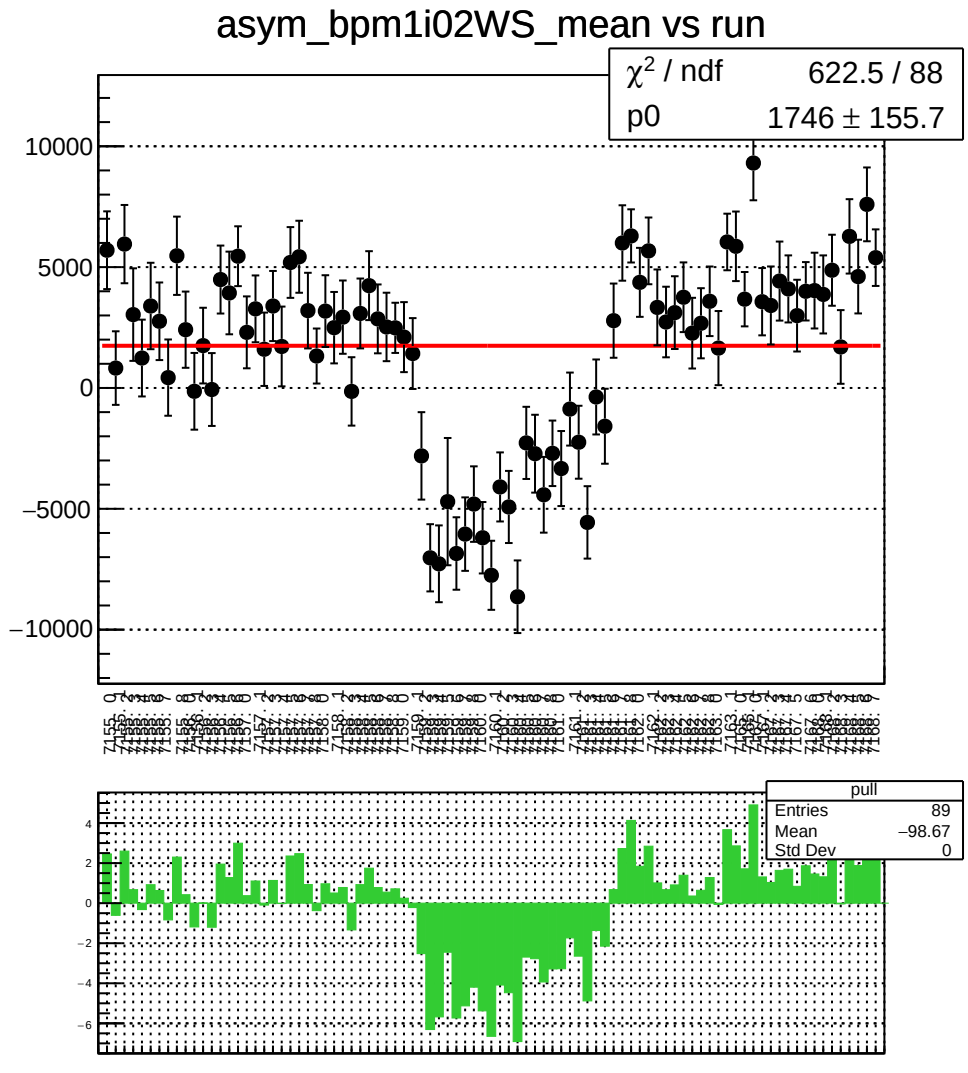

pull1D
Entries 89
Mean −0.01244
Std Dev 1.608
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

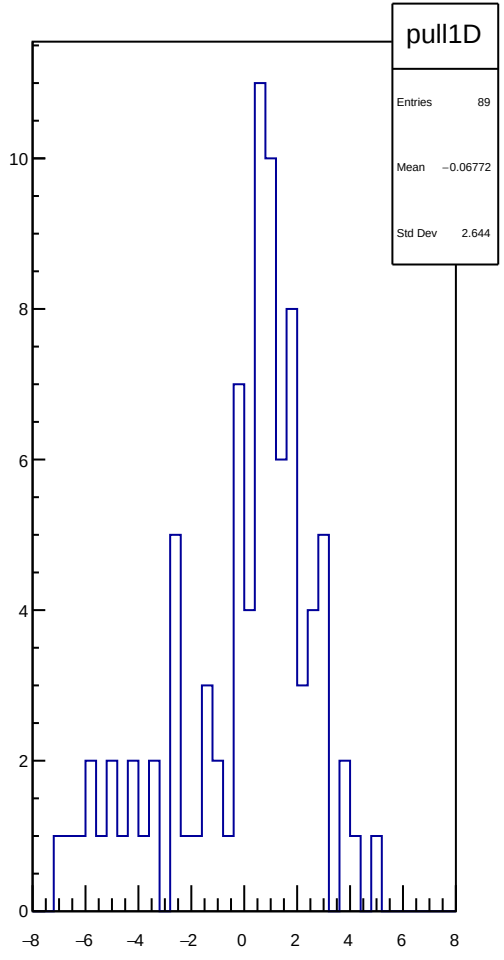

asym_bpm0i05WS_rms vs run
χ^2 / ndf 6890 / 88
p0 200 ± 0.1523
320
300
280
260
240
220
200
180

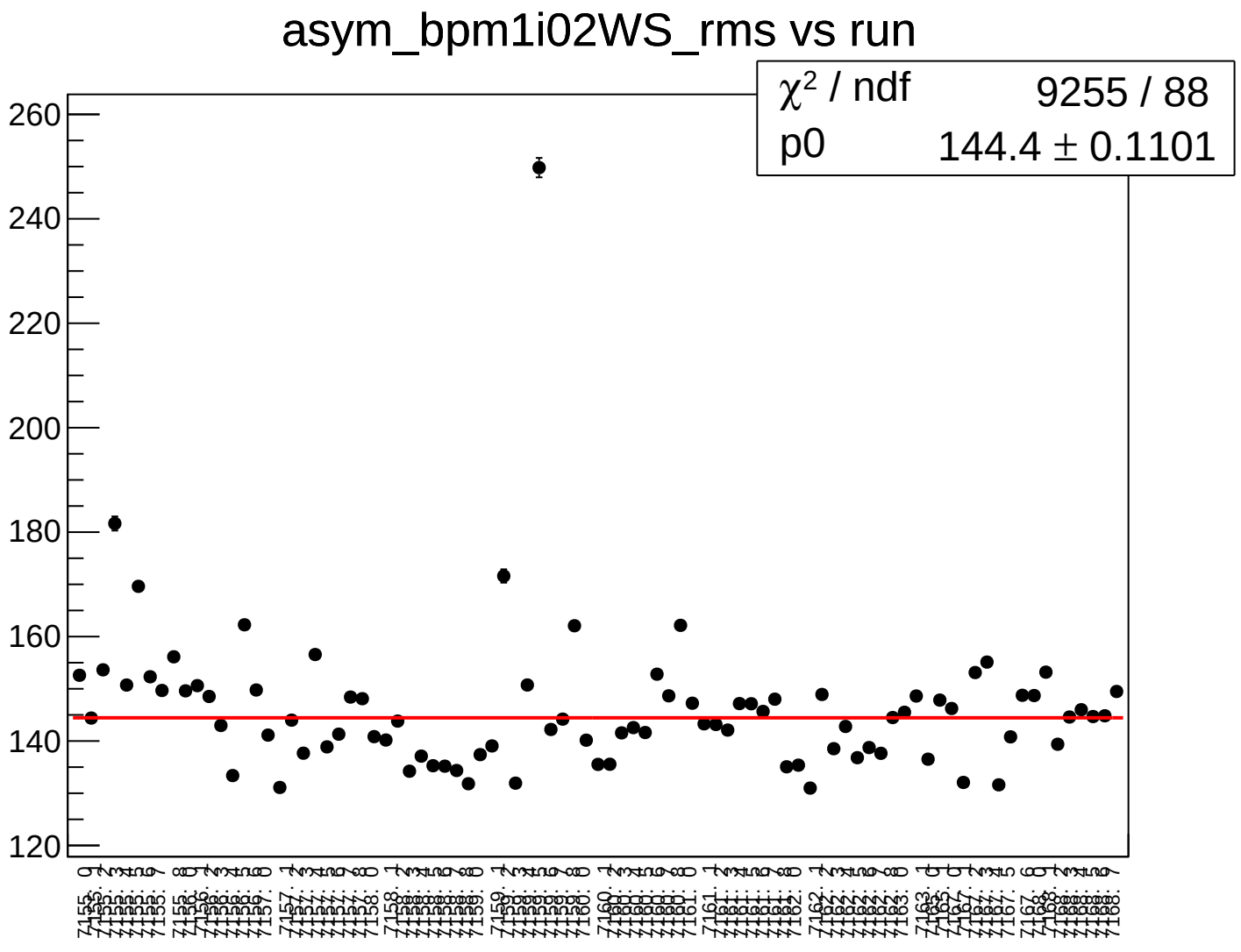

asym_bpm0i07WS_mean vs run
χ² / ndf 156 / 88
p0 −1993 ± 239.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 5014
Std Dev 0
3
2
1
0
−1
−2
−3

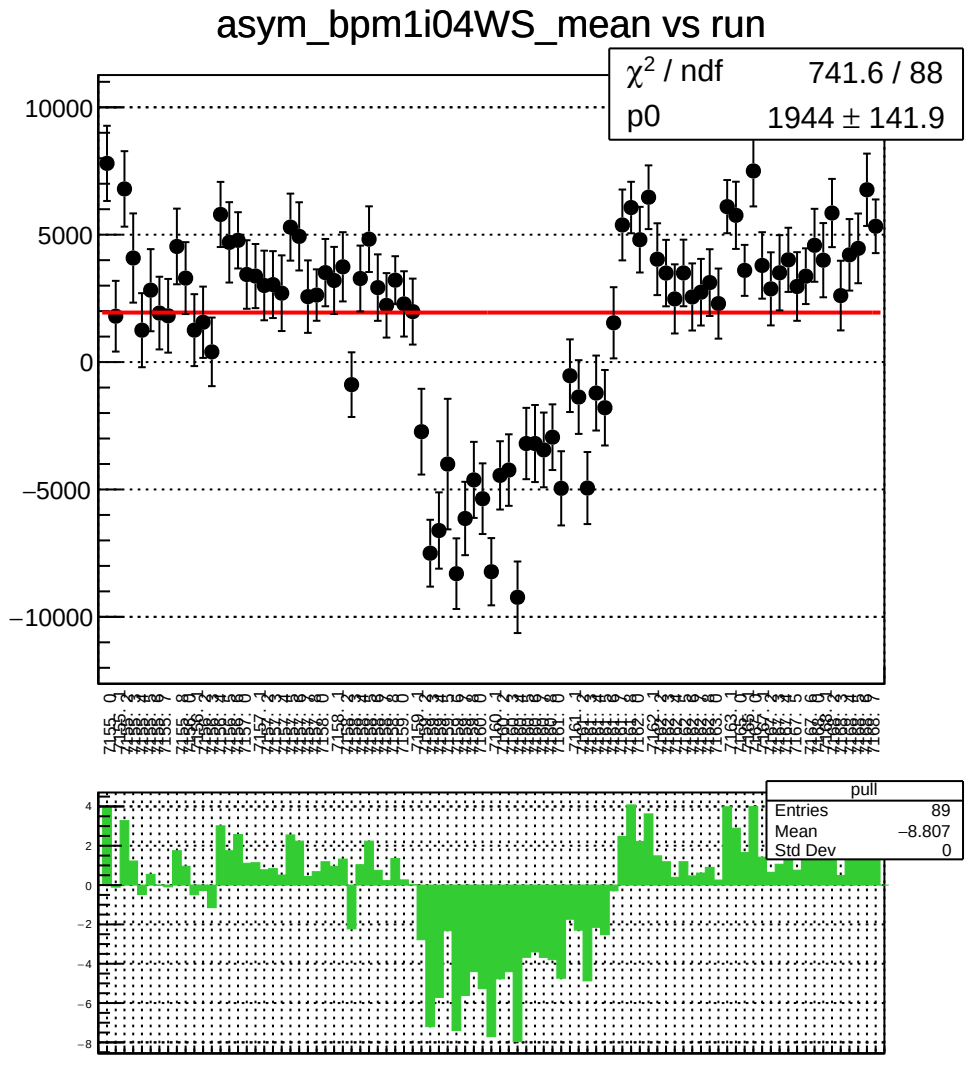

pull1D
Entries 89
Mean 0.001848
Std Dev 1.324
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

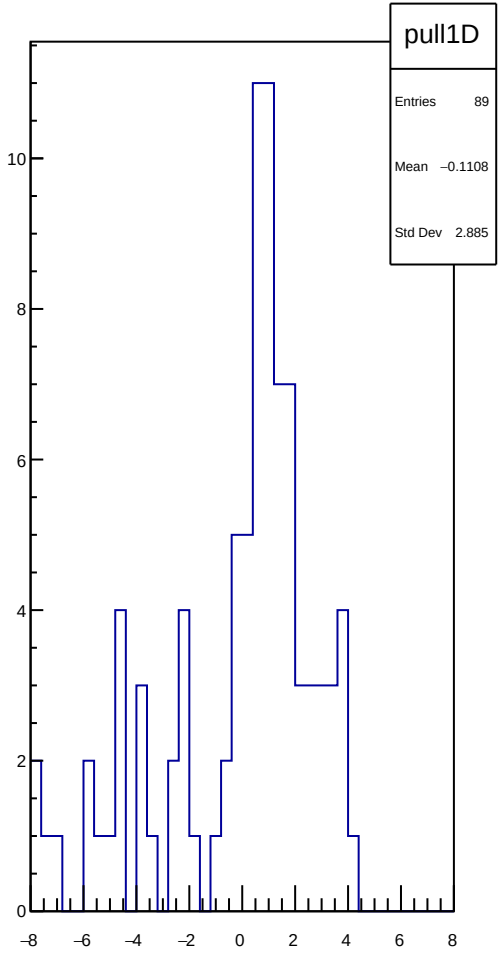

asym_bpm0i07WS_rms vs run
χ² / ndf 5058 / 88
p0 222.5 ± 0.1694
340
320
300
280
260
240
220
200

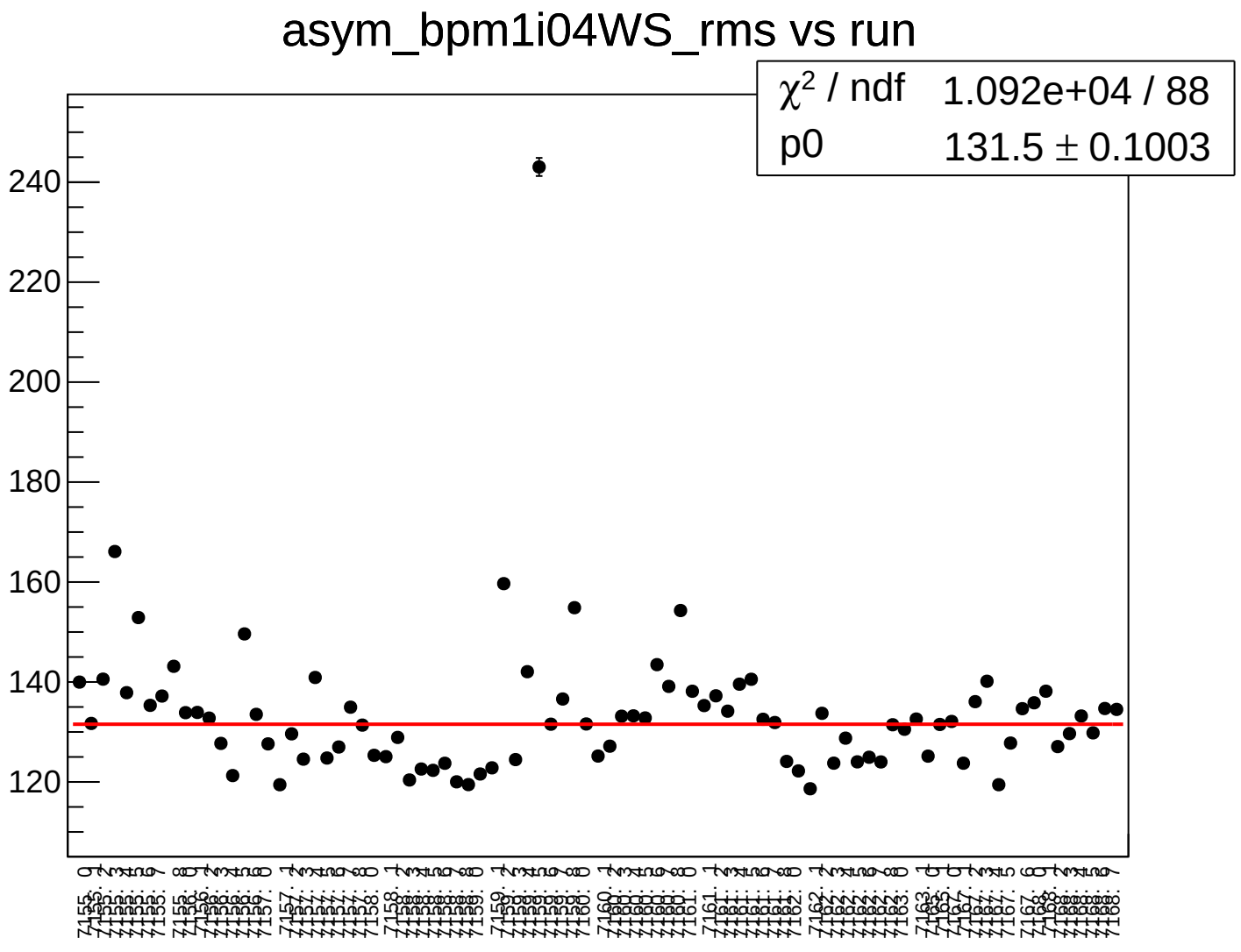

asym_bpm1i02WS_mean vs run
χ² / ndf 622.5 / 88
p0 1746 ± 155.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −98.67
Std Dev 0
4
2
0
−2
−4
−6

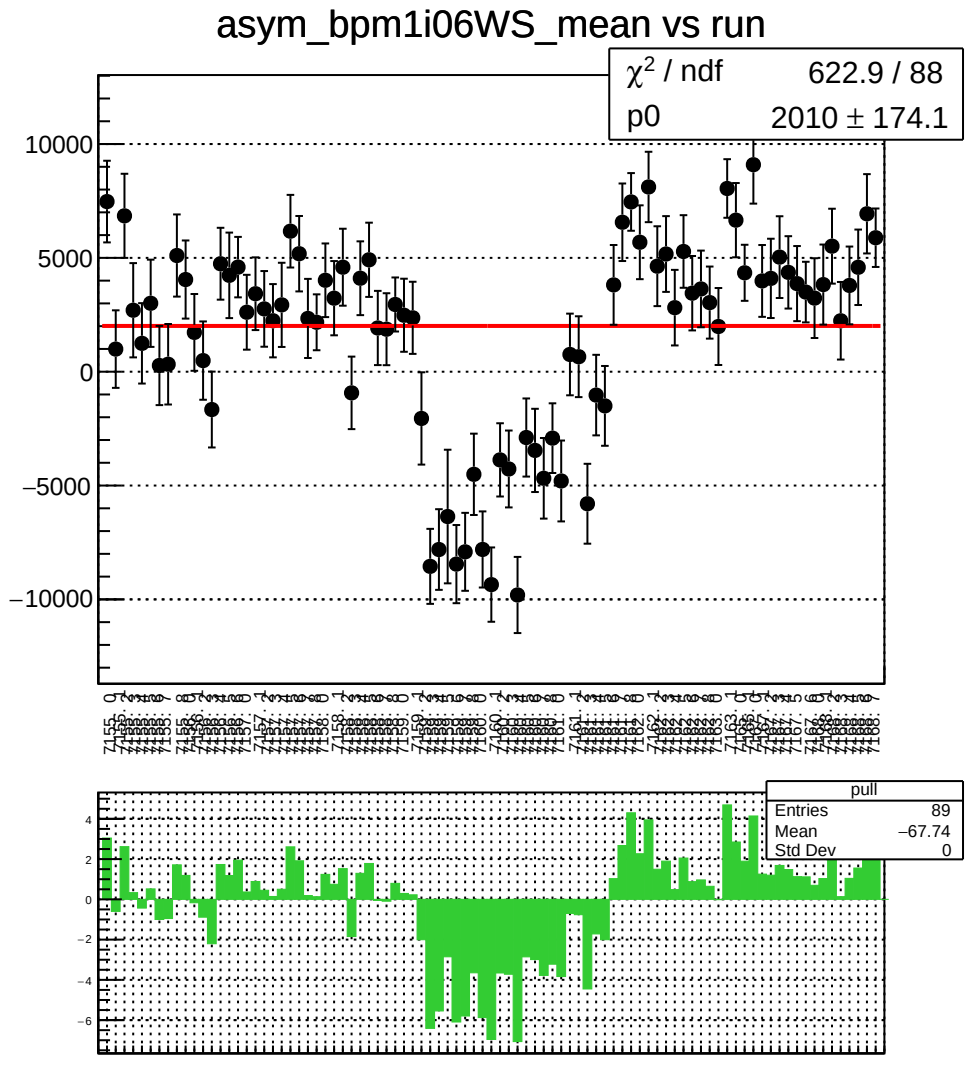

pull1D
Entries 89
Mean −0.06772
Std Dev 2.644
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

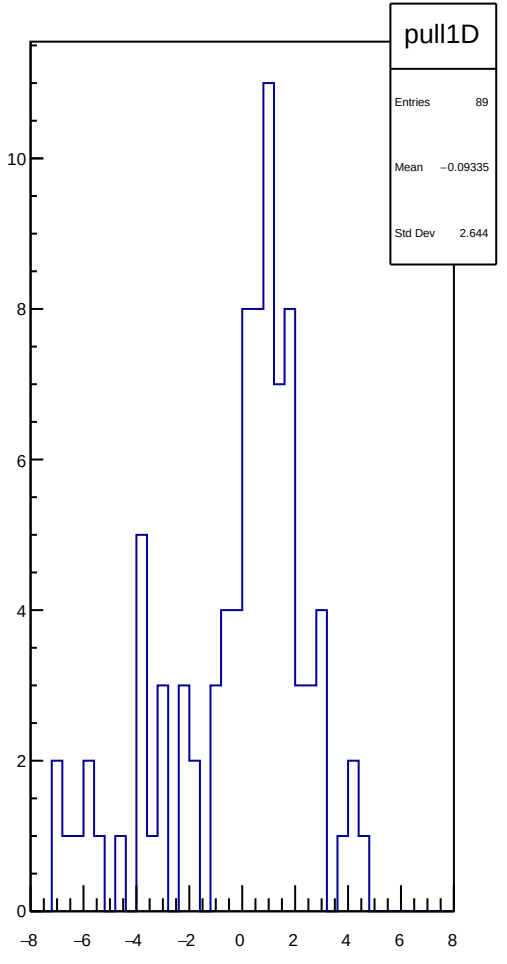

asym_bpm1i02WS_rms vs run
χ² / ndf 9255 / 88
p0 144.4 ± 0.1101
260
240
220
200
180
160
140
120

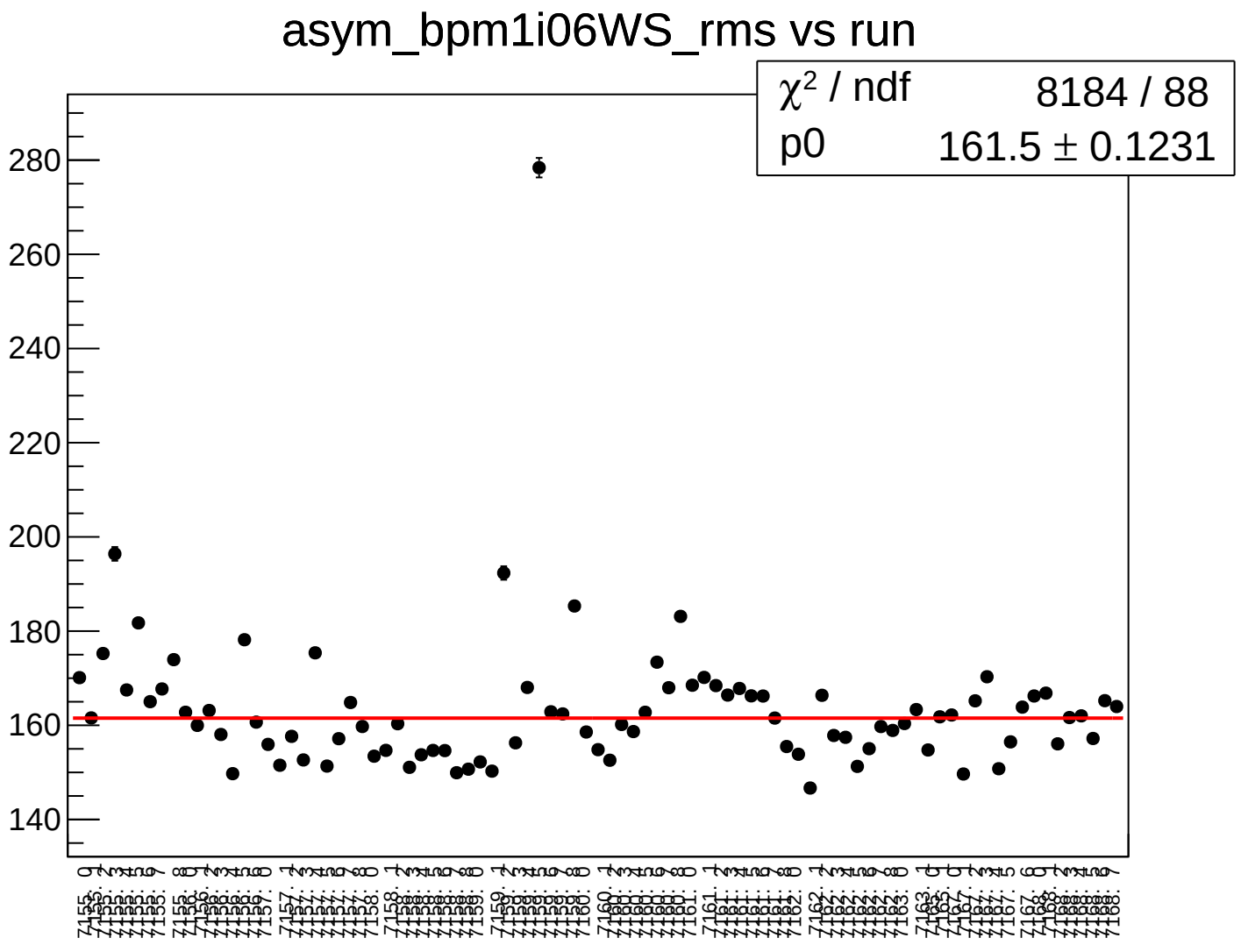

asym_bpm1i04WS_mean vs run
χ² / ndf 741.6 / 88
p0 1944 ± 141.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −8.807
Std Dev 0
4
2
0
−2
−4
−6
−8

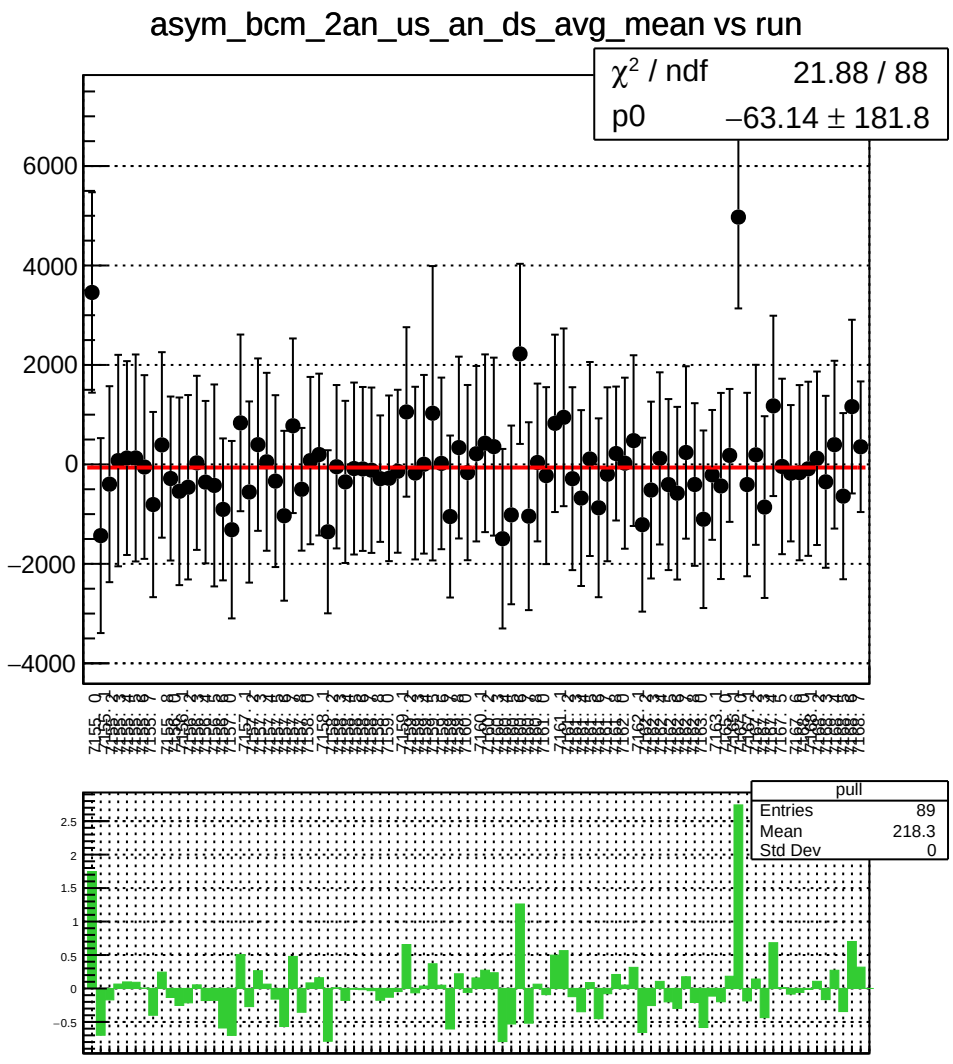

pull1D
Entries 89
Mean −0.1108
Std Dev 2.885
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

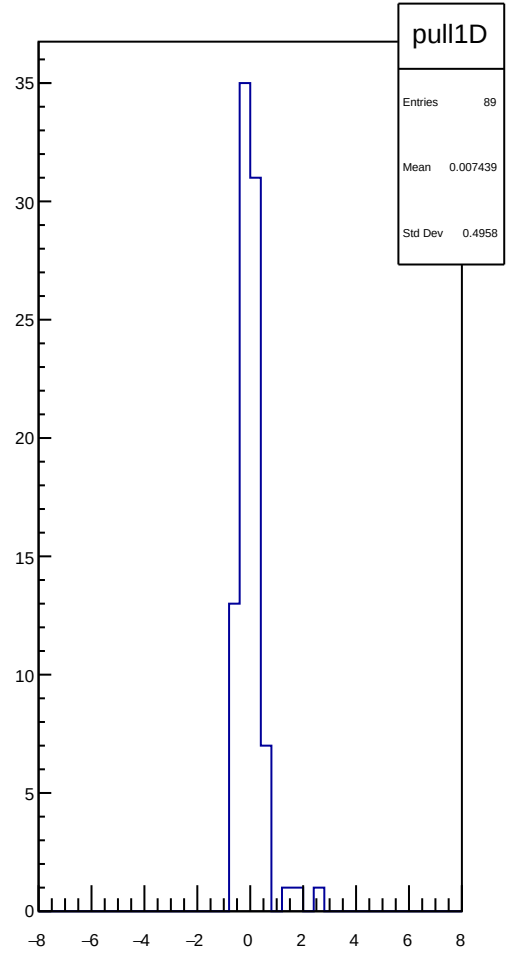

asym_bpm1i04WS_rms vs run
χ² / ndf 1.092e+04 / 88
p0 131.5 ± 0.1003
240
220
200
180
160
140
120

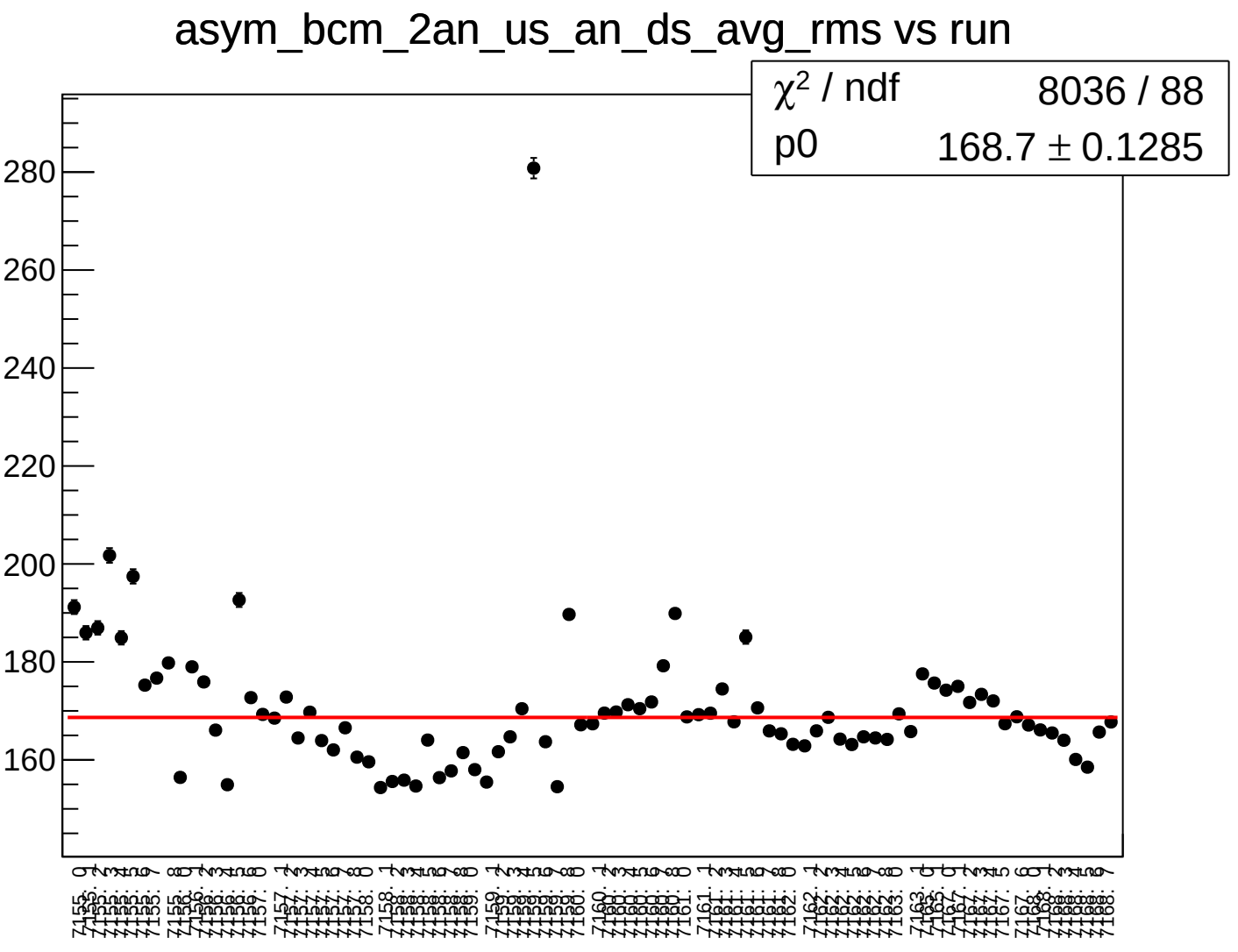

asym_bpm1i06WS_mean vs run
χ² / ndf 622.9 / 88
p0 2010 ± 174.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −67.74
Std Dev 0
4
2
0
−2
−4
−6

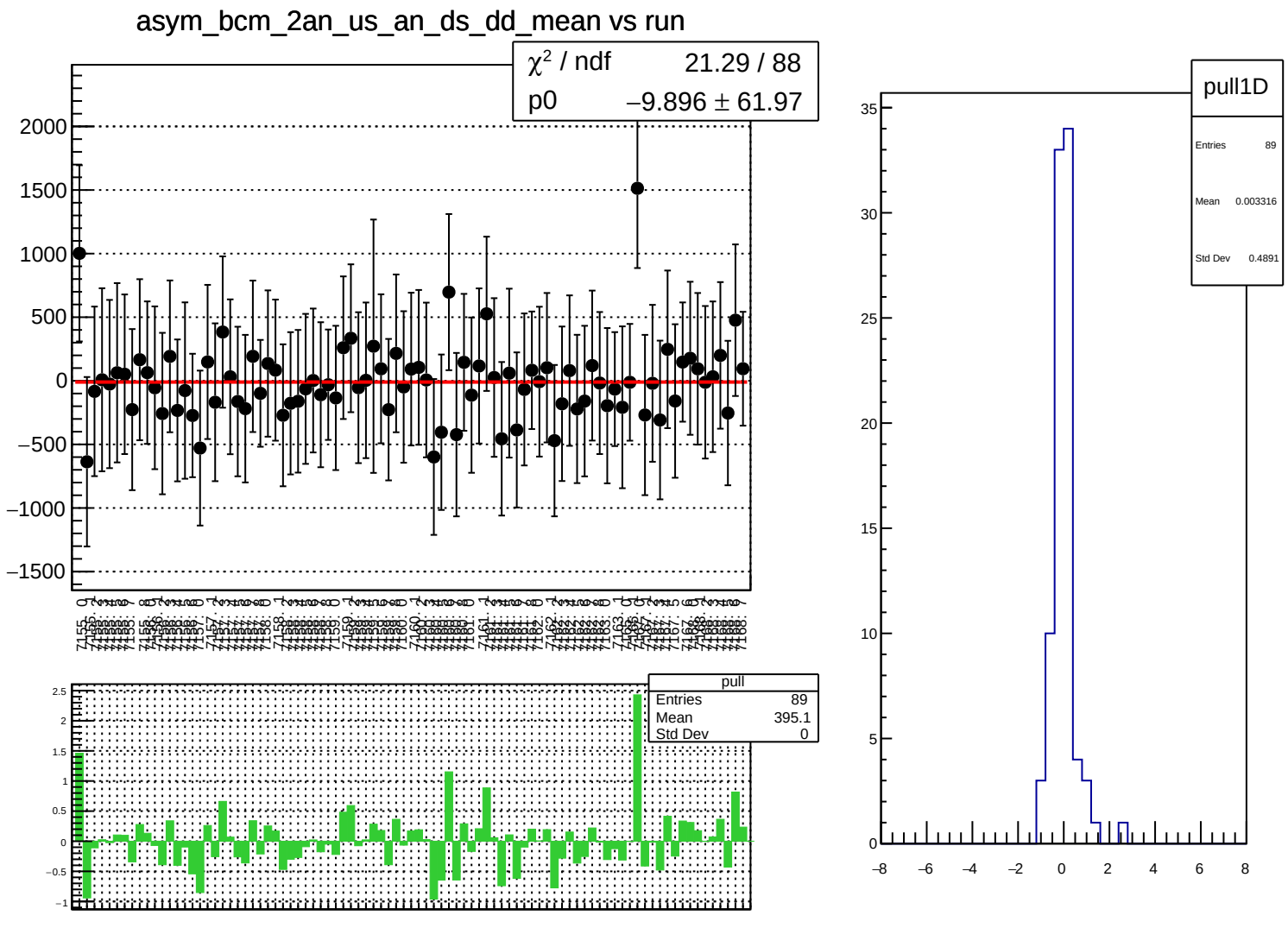

pull1D
Entries 89
Mean −0.09335
Std Dev 2.644
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

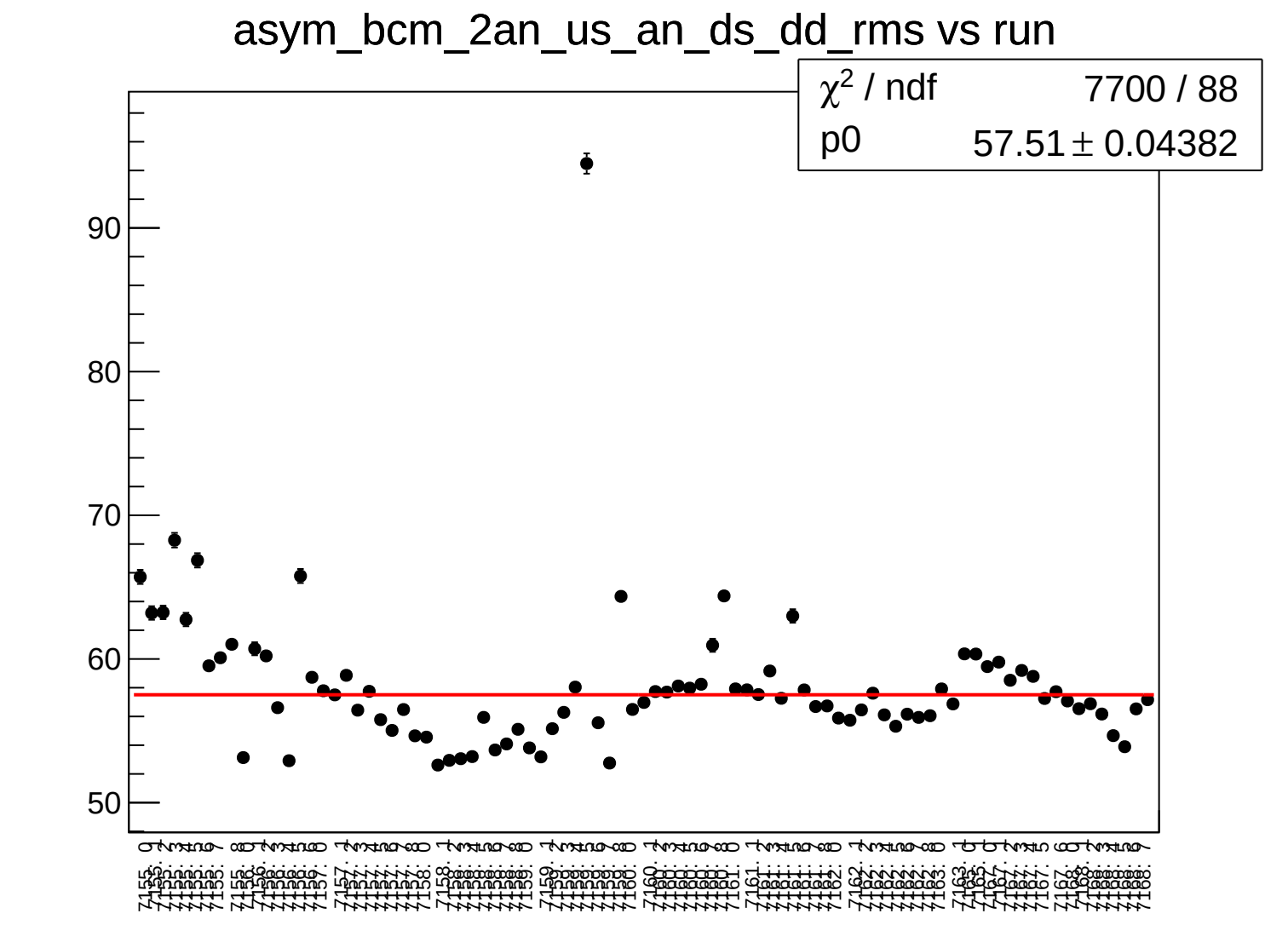

asym_bpm1i06WS_rms vs run
χ² / ndf 8184 / 88
p0 161.5 ± 0.1231
280
260
240
220
200
180
160
140

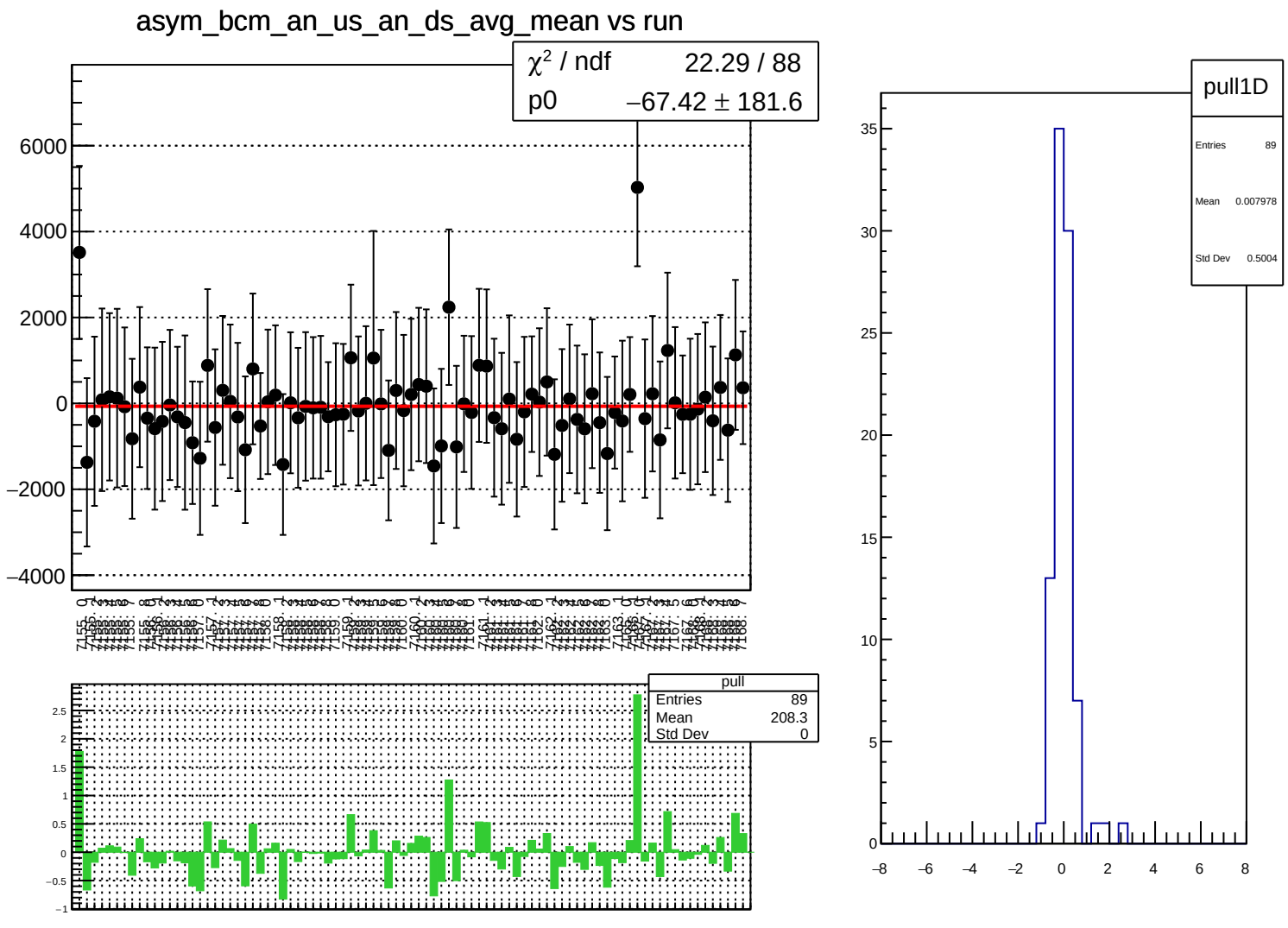

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 21.88 / 88
p0 −63.14 ± 181.8
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 218.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5

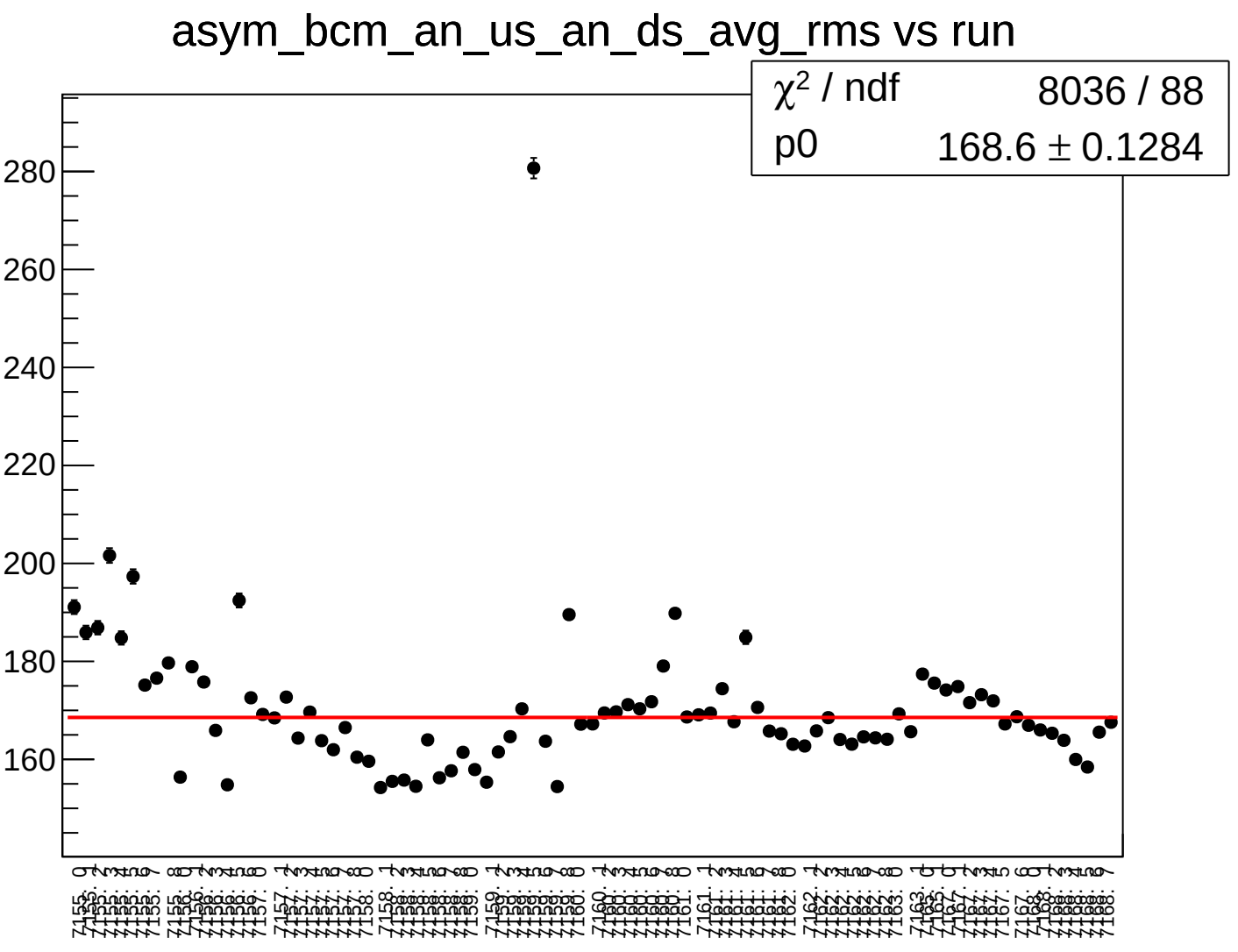

pull1D
Entries 89
Mean 0.007439
Std Dev 0.4958
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

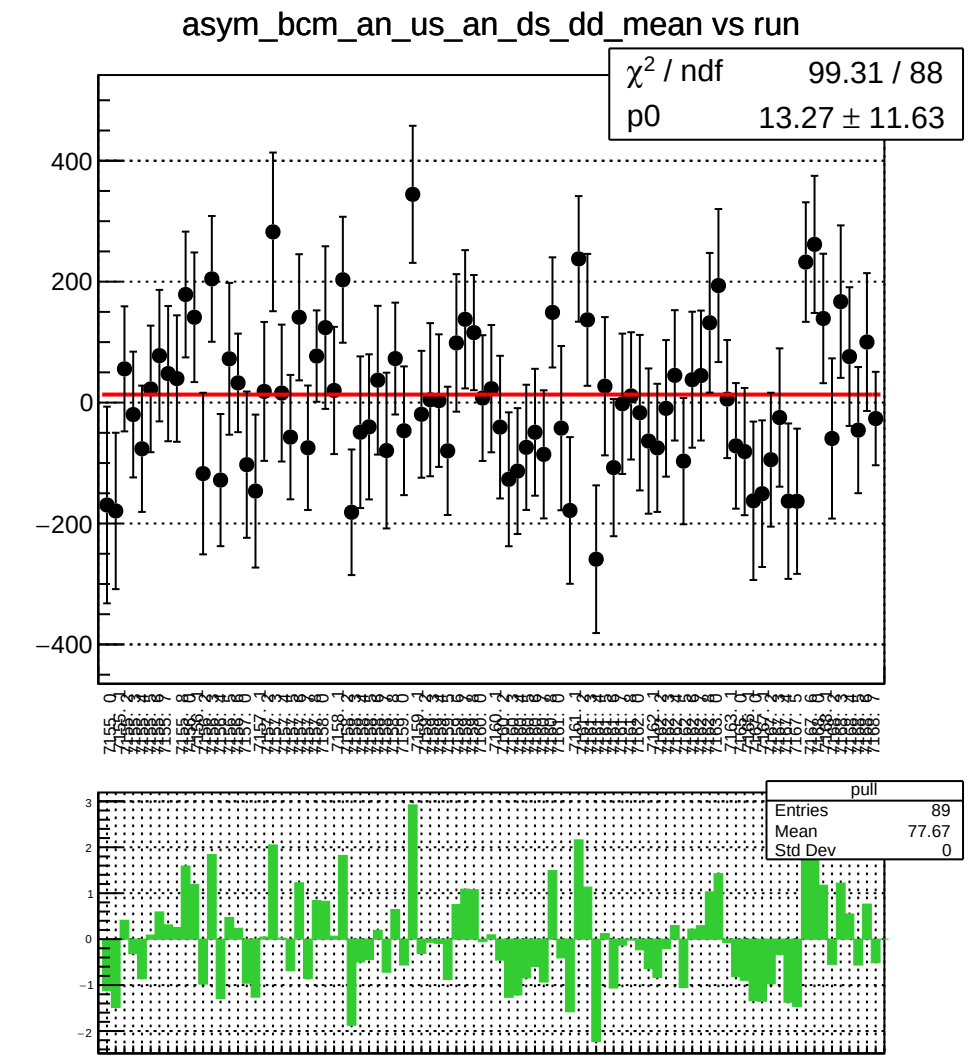

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 8036 / 88
p0 168.7 ± 0.1285
280
260
240
220
200
180
160

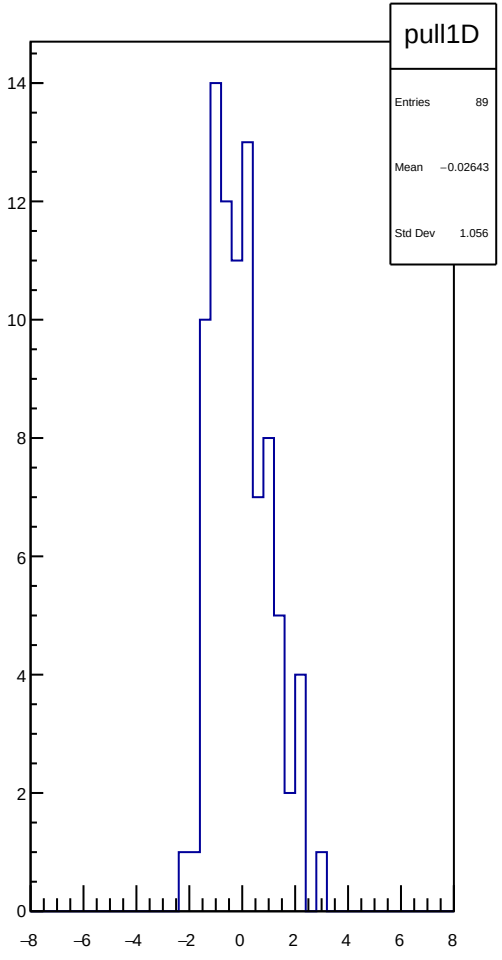

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 21.29 / 88
p0 −9.896 ± 61.97
pull
Entries 89
Mean 395.1
Std Dev 0
pull1D
Entries 89
Mean 0.003316
Std Dev 0.4891

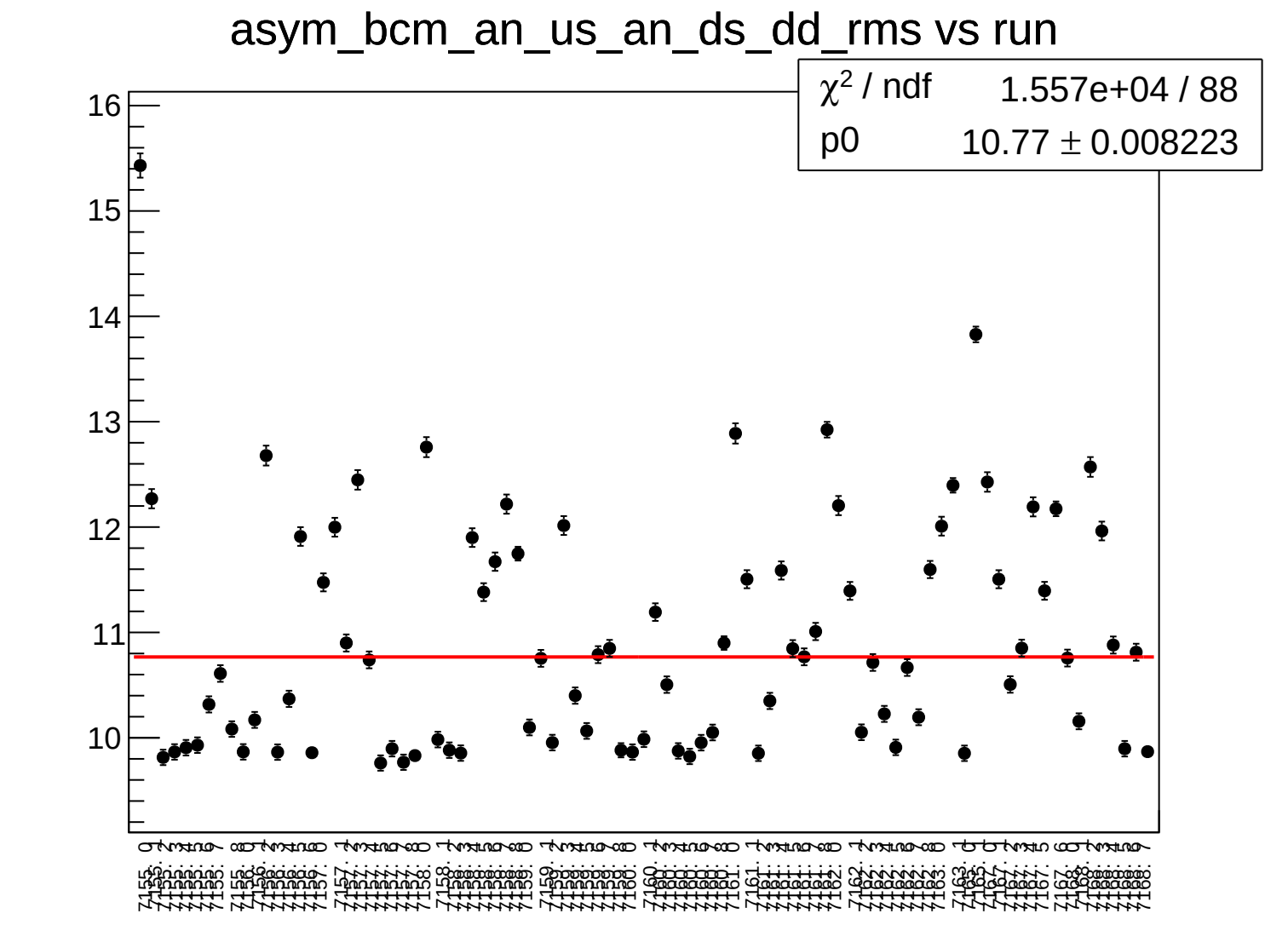

asym_bcm_2an_us_an_ds_dd_rms vs run
χ^2 / ndf 7700 / 88
p0 57.51 ± 0.04382
90
80
70
60
50

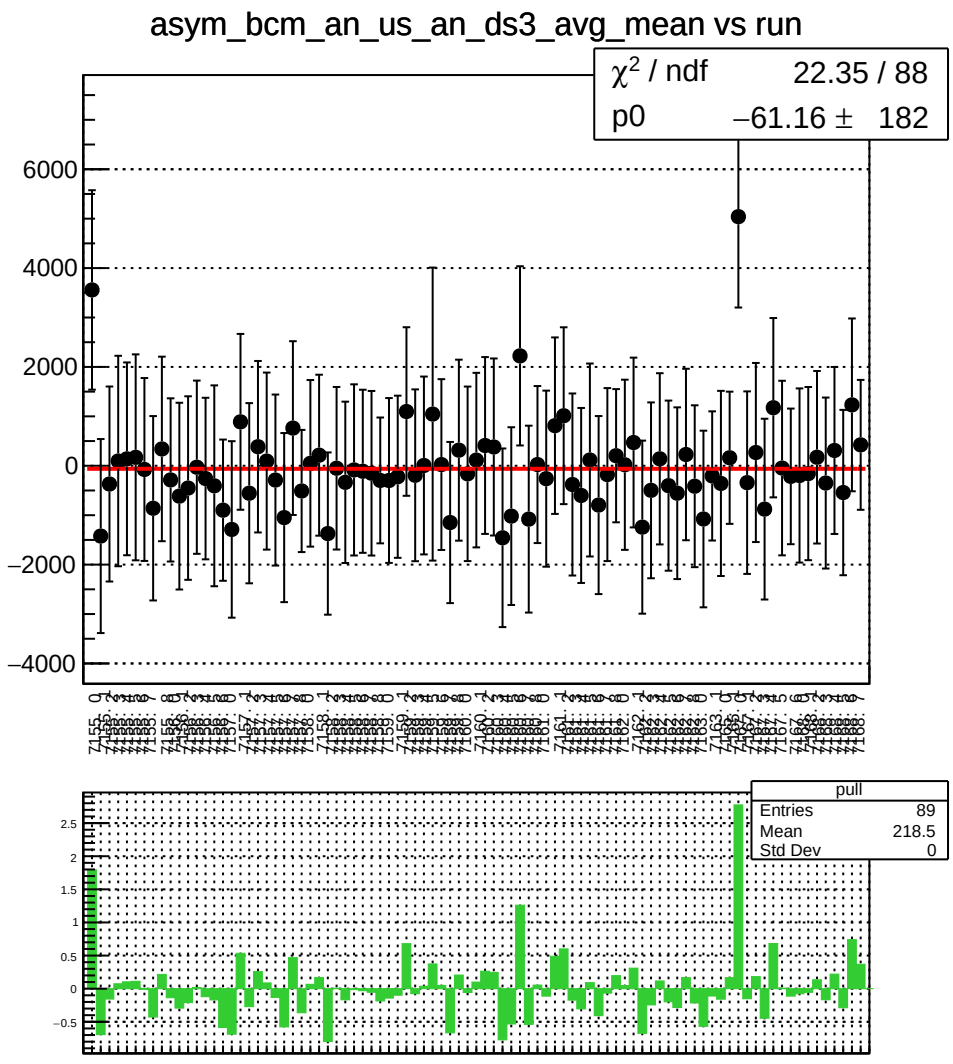

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 22.29 / 88
p0 −67.42 ± 181.6
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 208.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.007978
Std Dev 0.5004
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

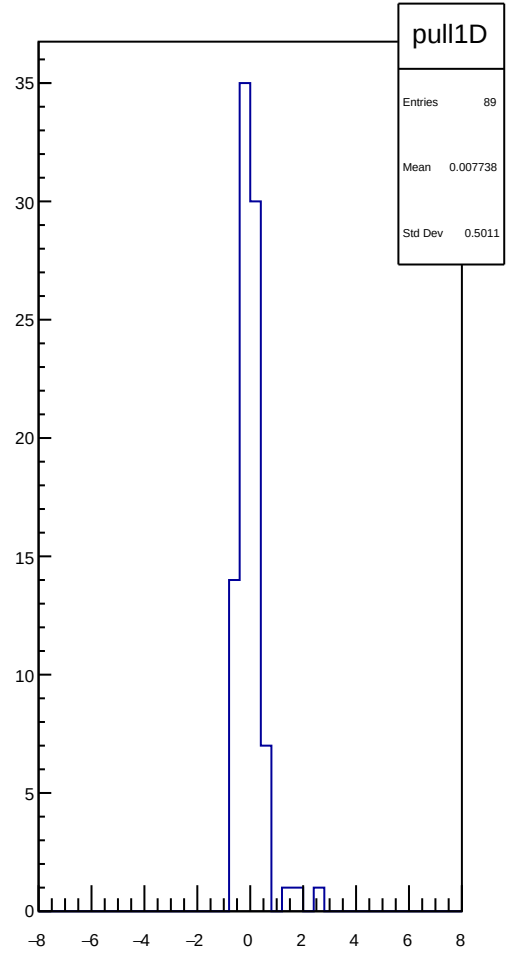

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 8036 / 88
p0 168.6 ± 0.1284
280
260
240
220
200
180
160

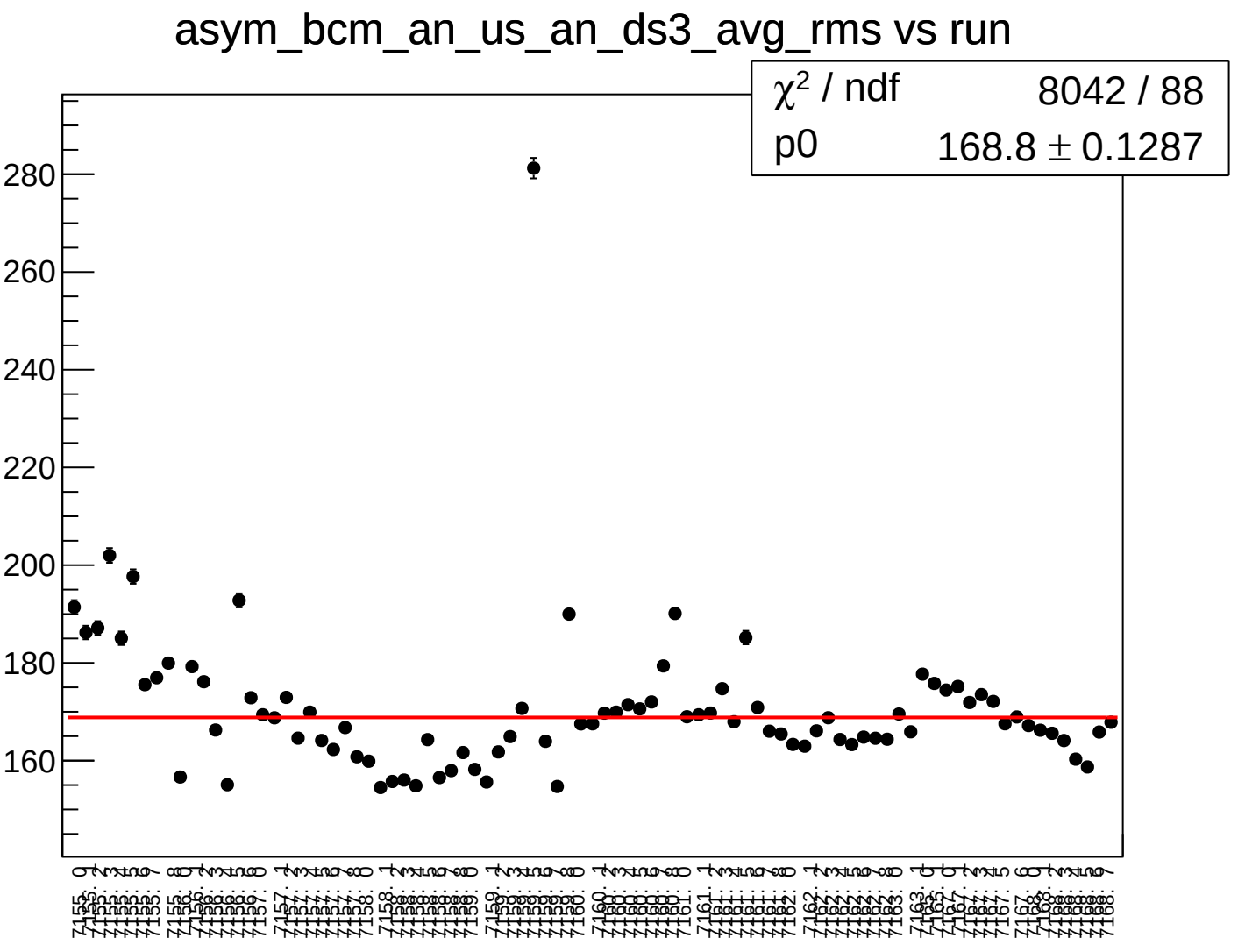

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 99.31 / 88
p0 13.27 ± 11.63
400
200
0
−200
−400
pull
Entries 89
Mean 77.67
Std Dev 0
3
2
1
0
−1
−2

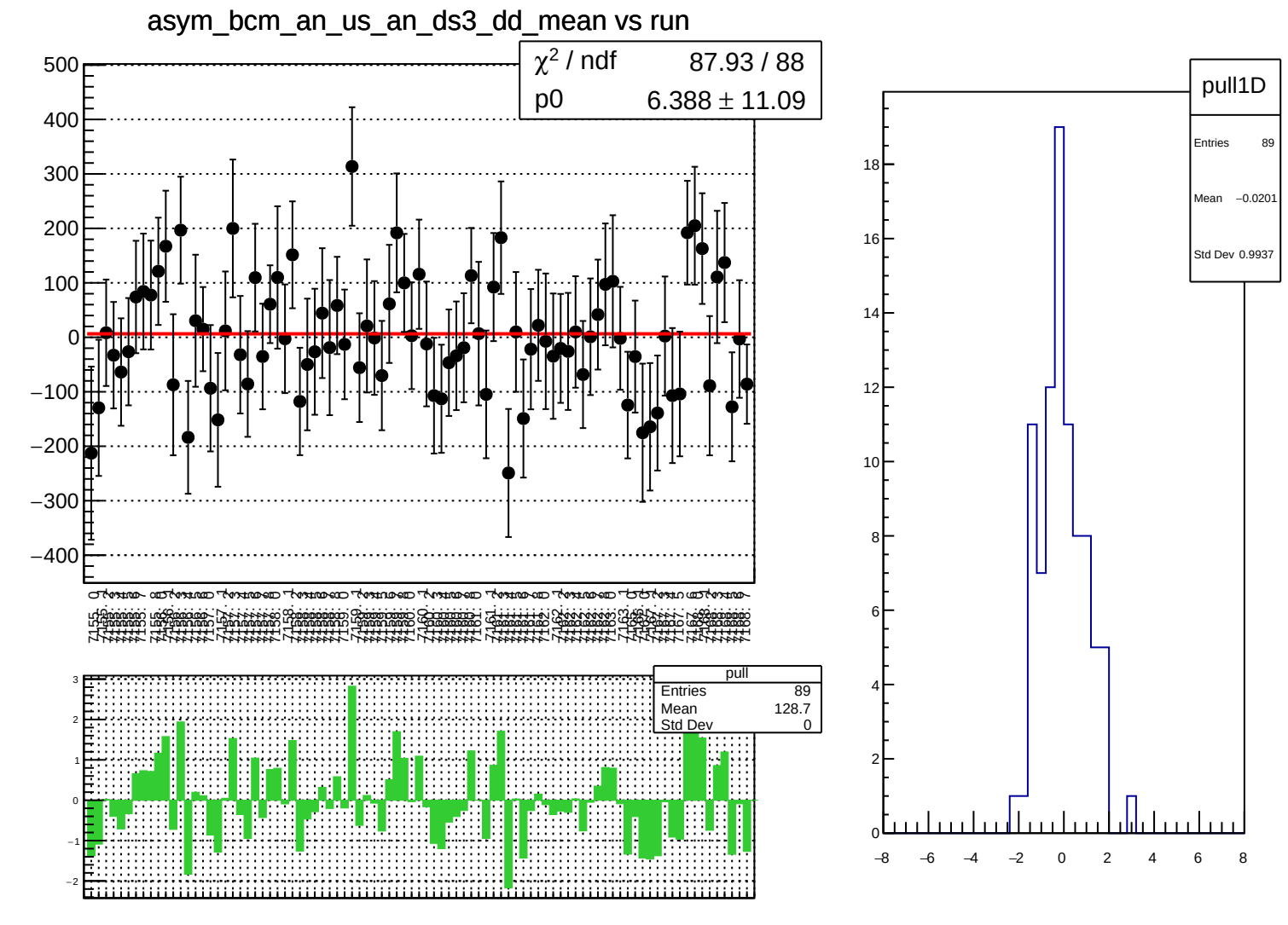

pull1D
Entries 89
Mean −0.02643
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

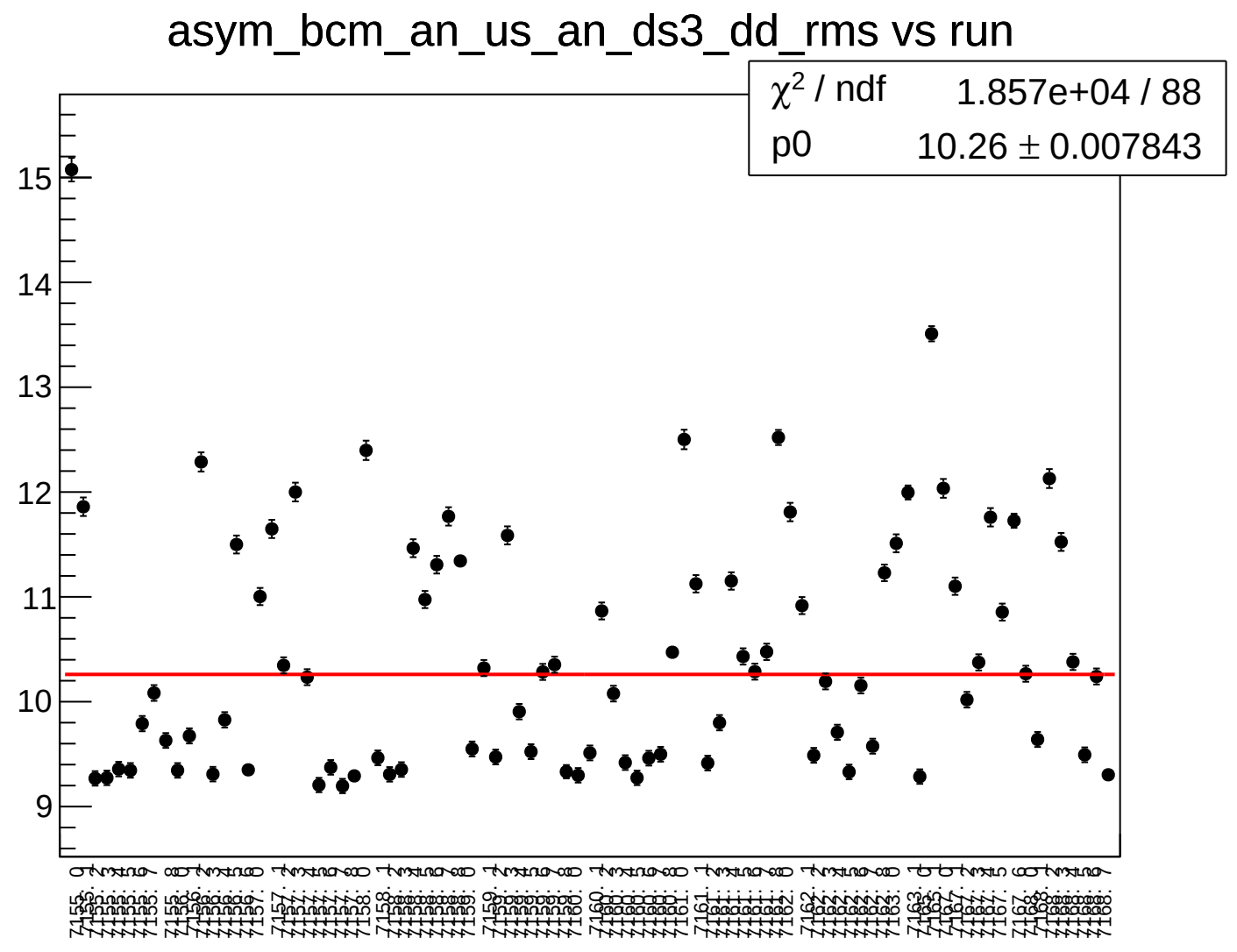

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.557e+04 / 88
p0 10.77 ± 0.008223
16
15
14
13
12
11
10

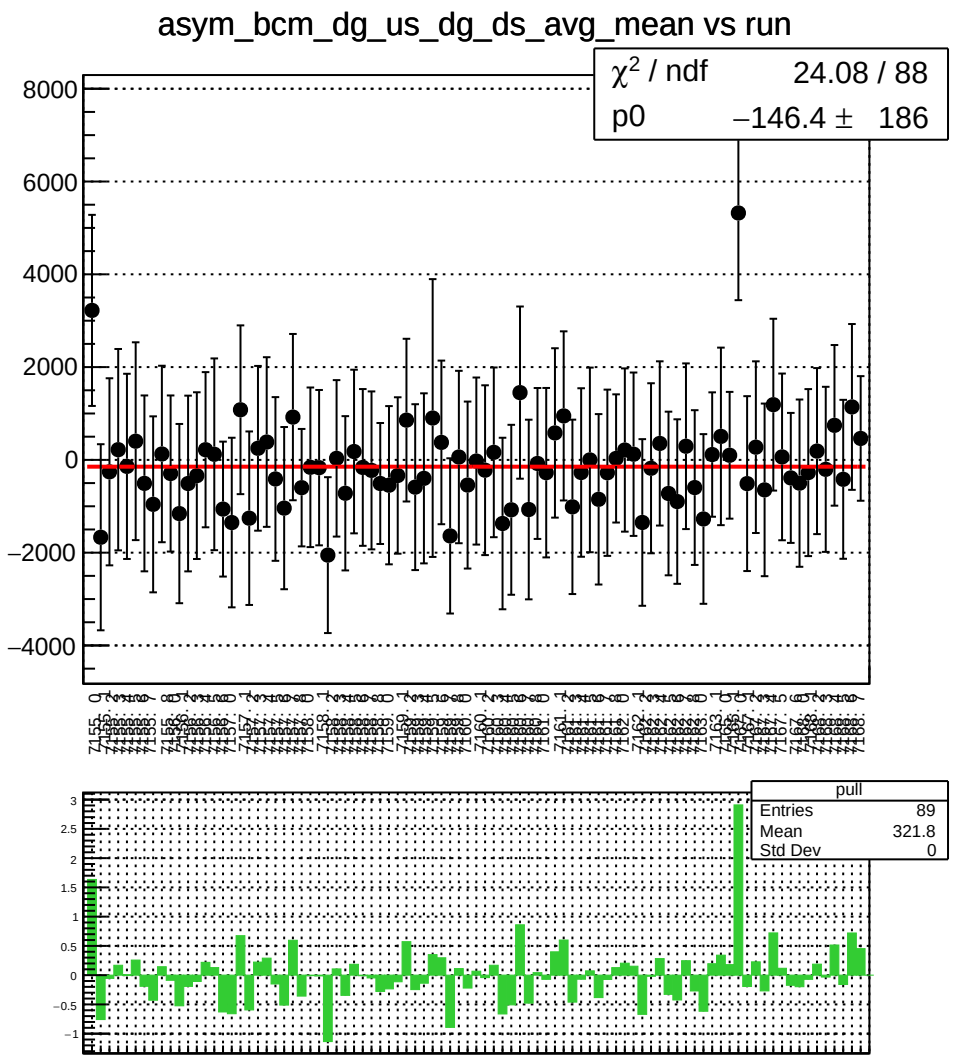

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 22.35 / 88
p0 −61.16 ± 182
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 218.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5

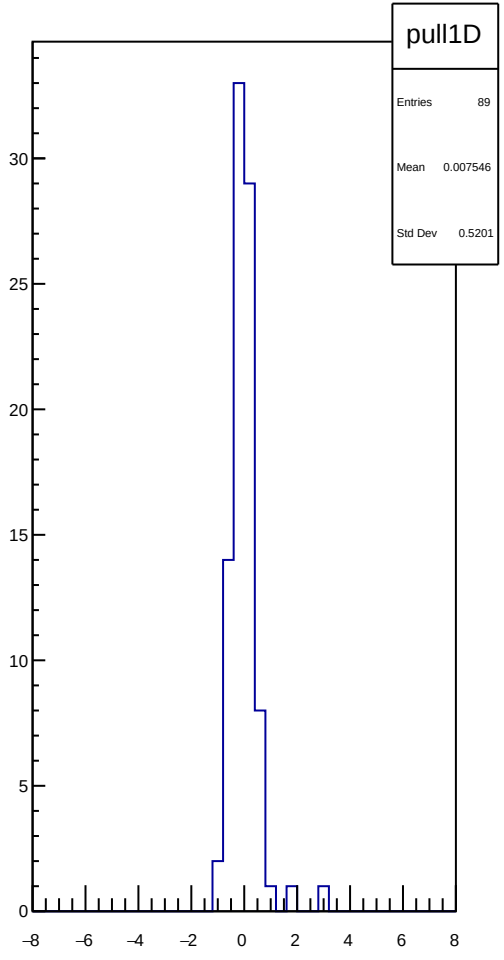

pull1D
Entries 89
Mean 0.007738
Std Dev 0.5011
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

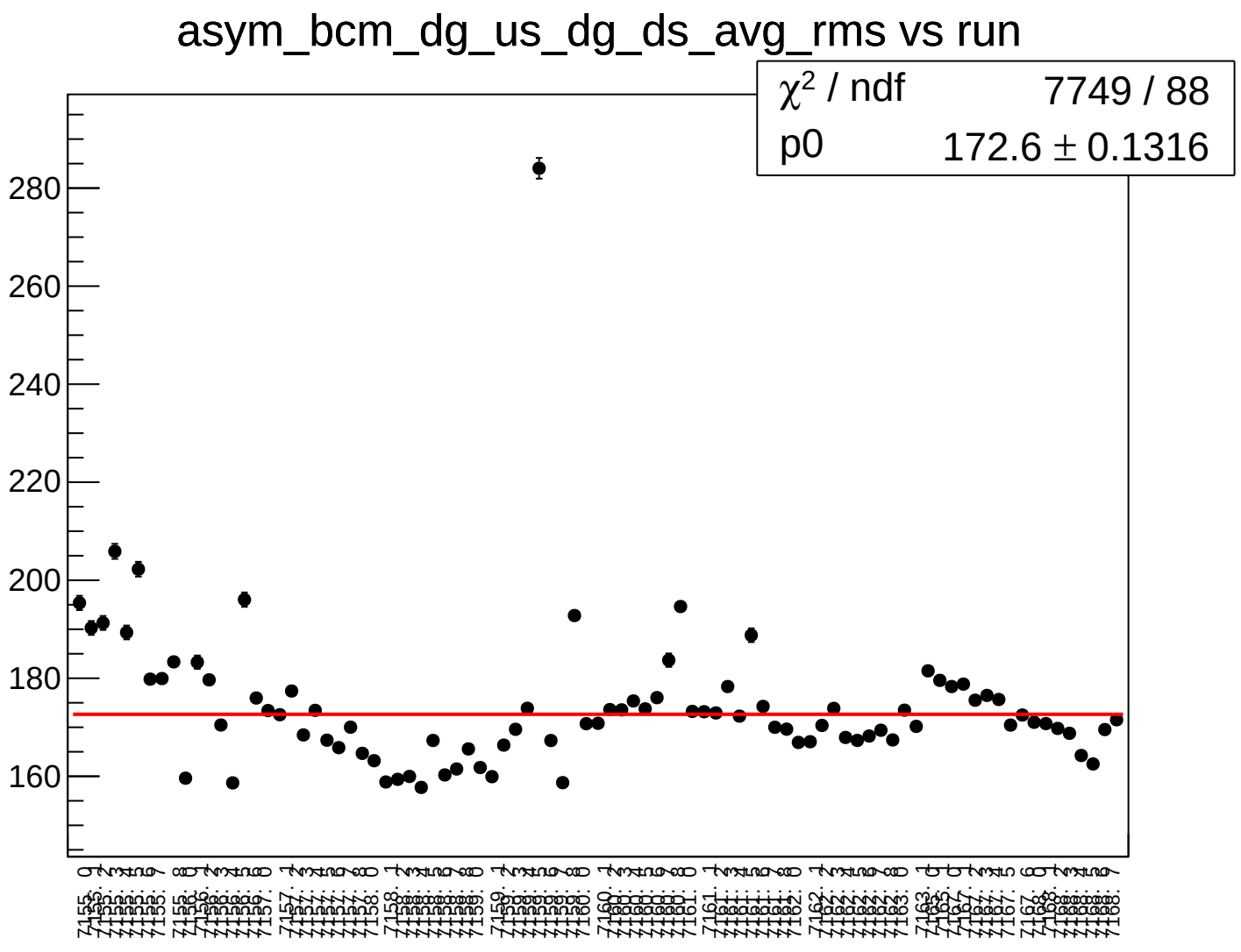

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 8042 / 88
p0 168.8 ± 0.1287
280
260
240
220
200
180
160

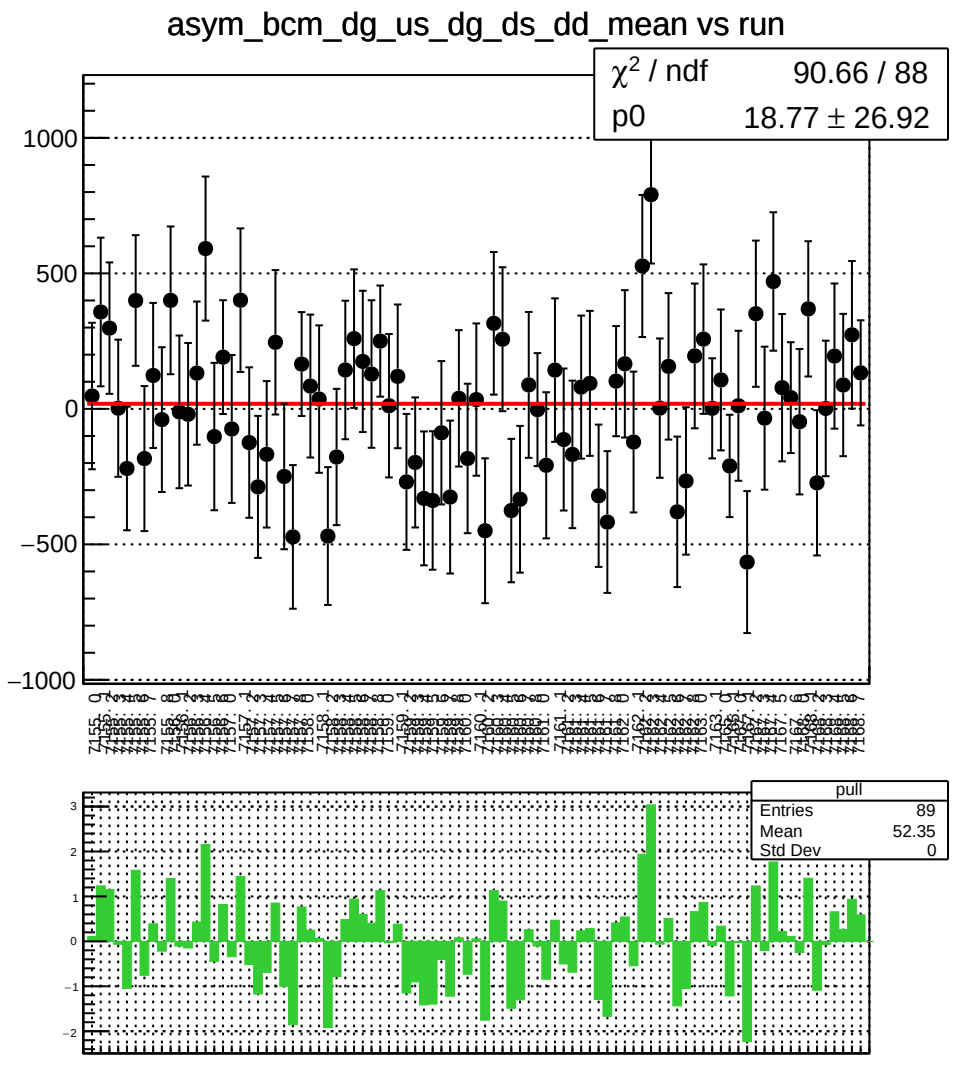

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 87.93 / 88
p0 6.388 ± 11.09
pull
Entries 89
Mean 128.7
Std Dev 0
pull1D
Entries 89
Mean −0.0201
Std Dev 0.9937

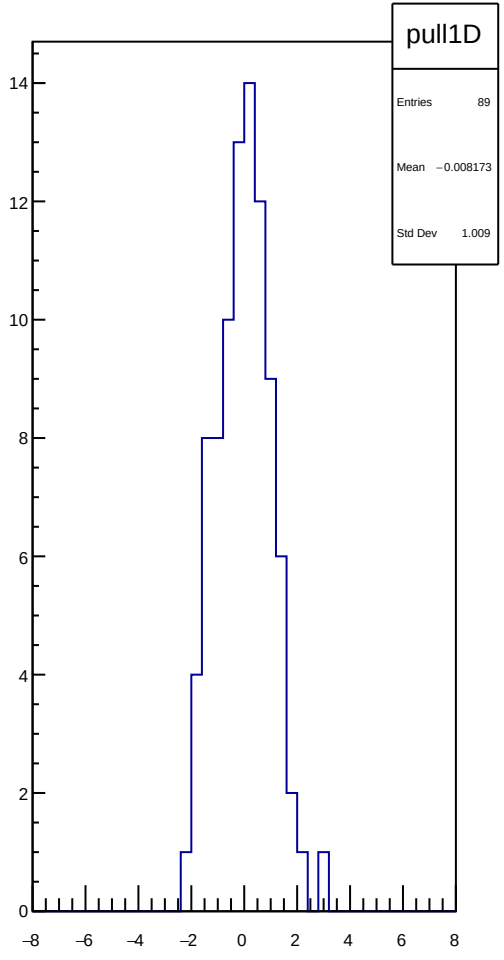

asym_bcm_an_us_an_ds3_dd_rms vs run
χ^2 / ndf 1.857e+04 / 88
p0 10.26 ± 0.007843
15
14
13
12
11
10
9

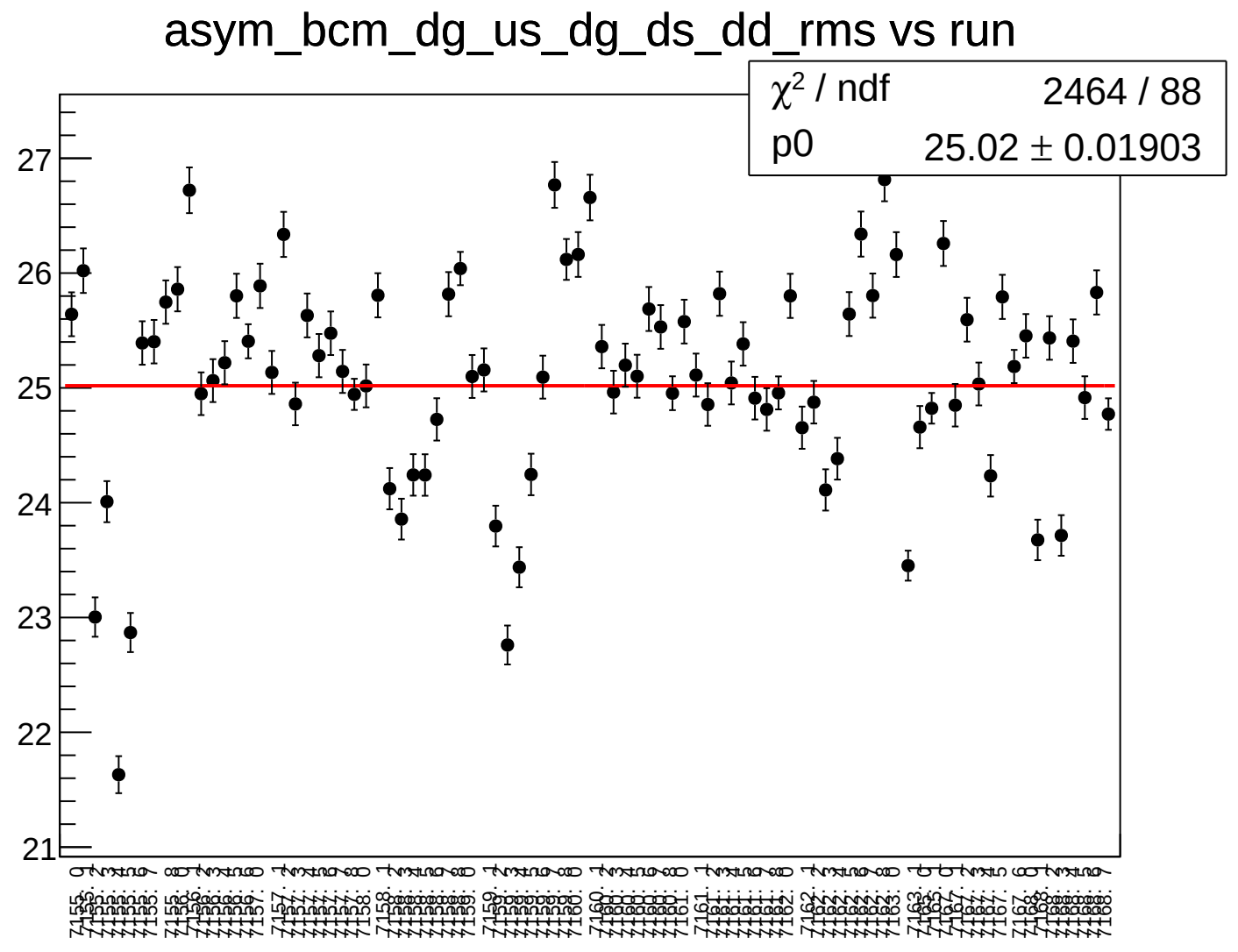

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 24.08 / 88
p0 −146.4 ± 186
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 89
Mean 321.8
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1

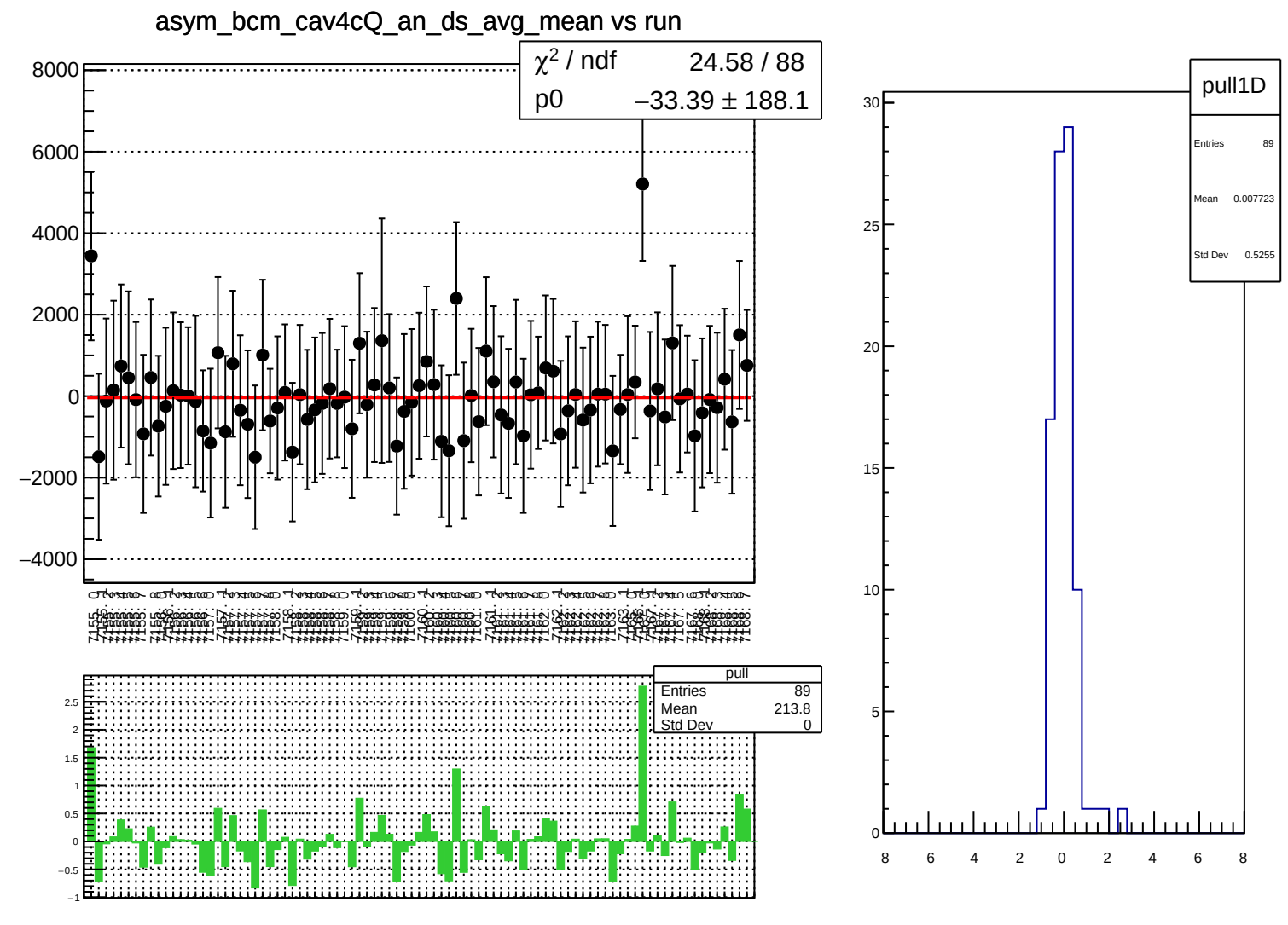

pull1D
Entries 89
Mean 0.007546
Std Dev 0.5201
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

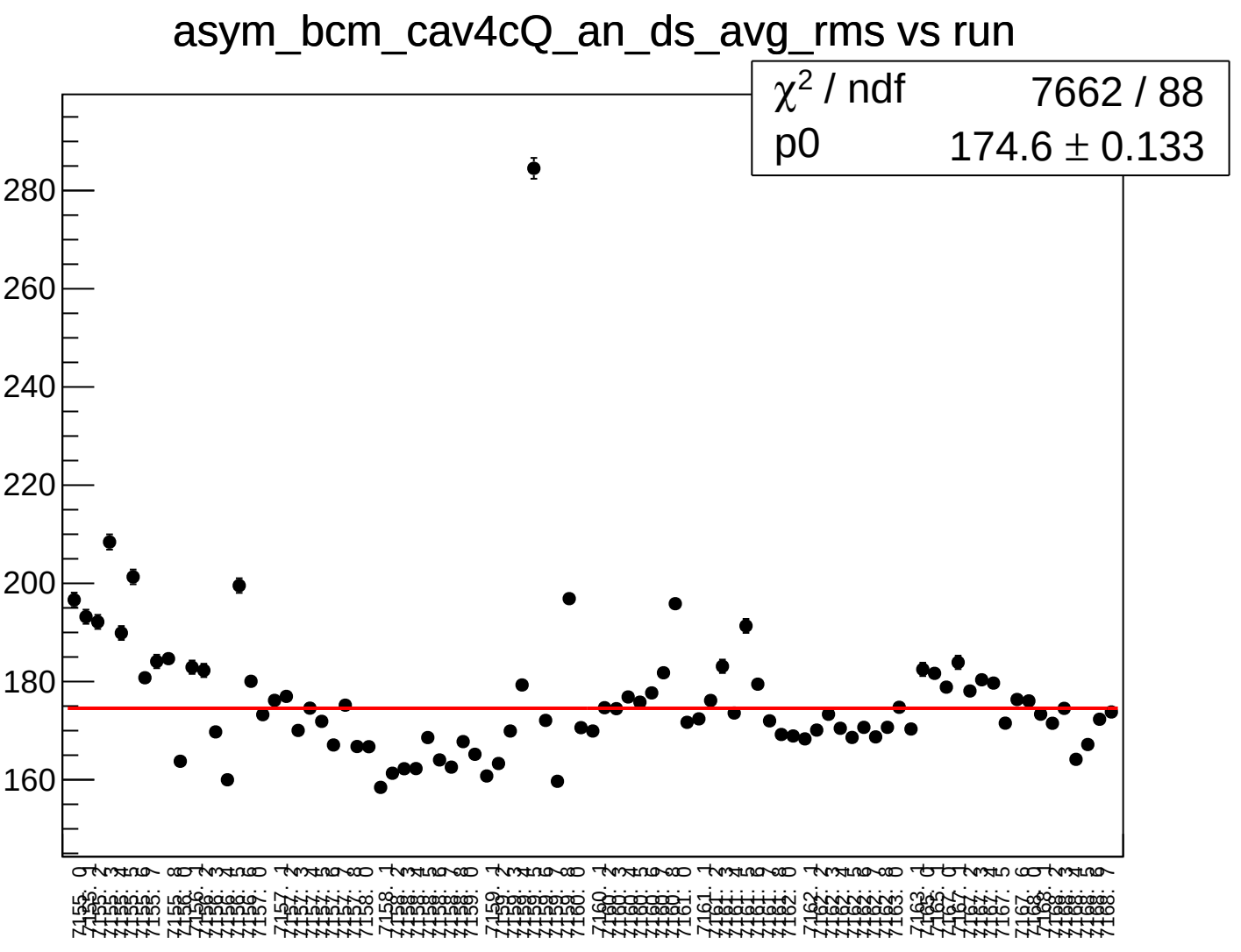

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 7749 / 88
p0 172.6 ± 0.1316
280
260
240
220
200
180
160

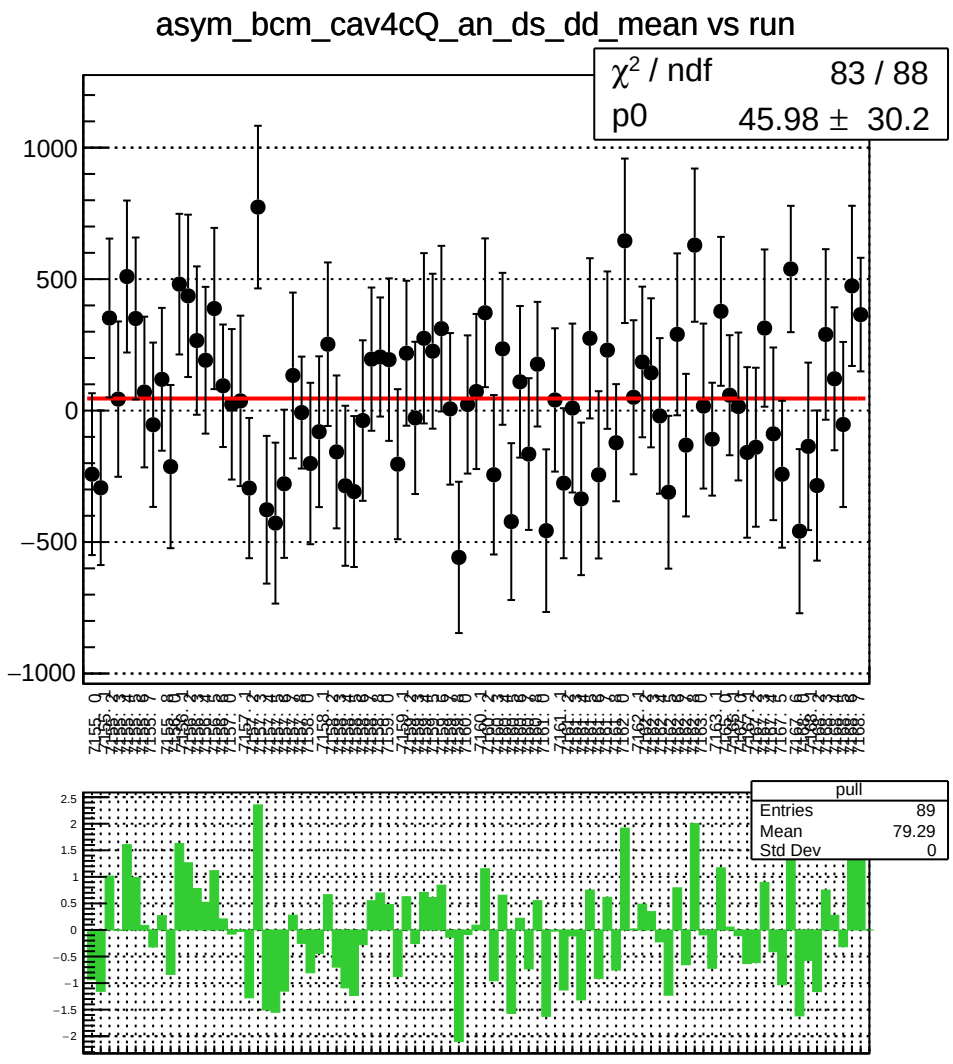

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 90.66 / 88
p0 18.77 ± 26.92
1000
500
0
−500
−1000
pull
Entries 89
Mean 52.35
Std Dev 0
3
2
1
0
−1
−2

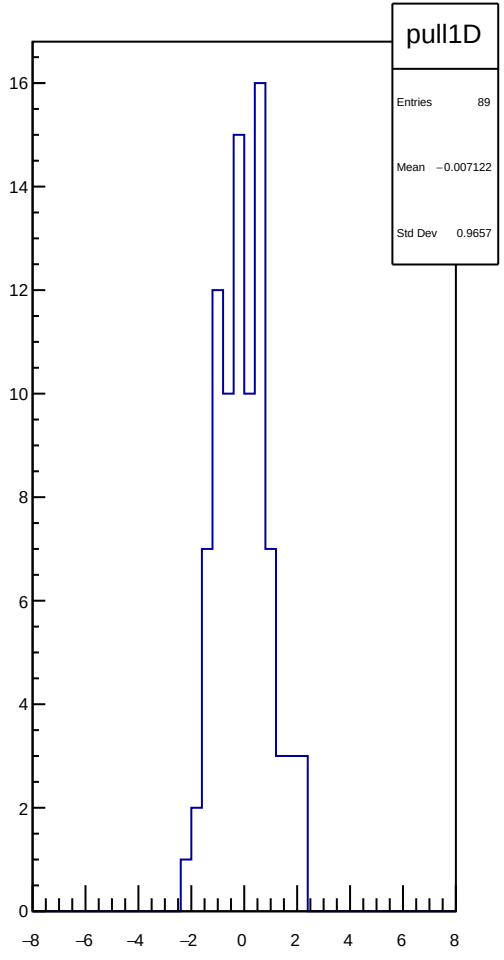

pull1D
Entries 89
Mean −0.008173
Std Dev 1.009
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2464 / 88
p0 25.02 ± 0.01903
27
26
25
24
23
22
21

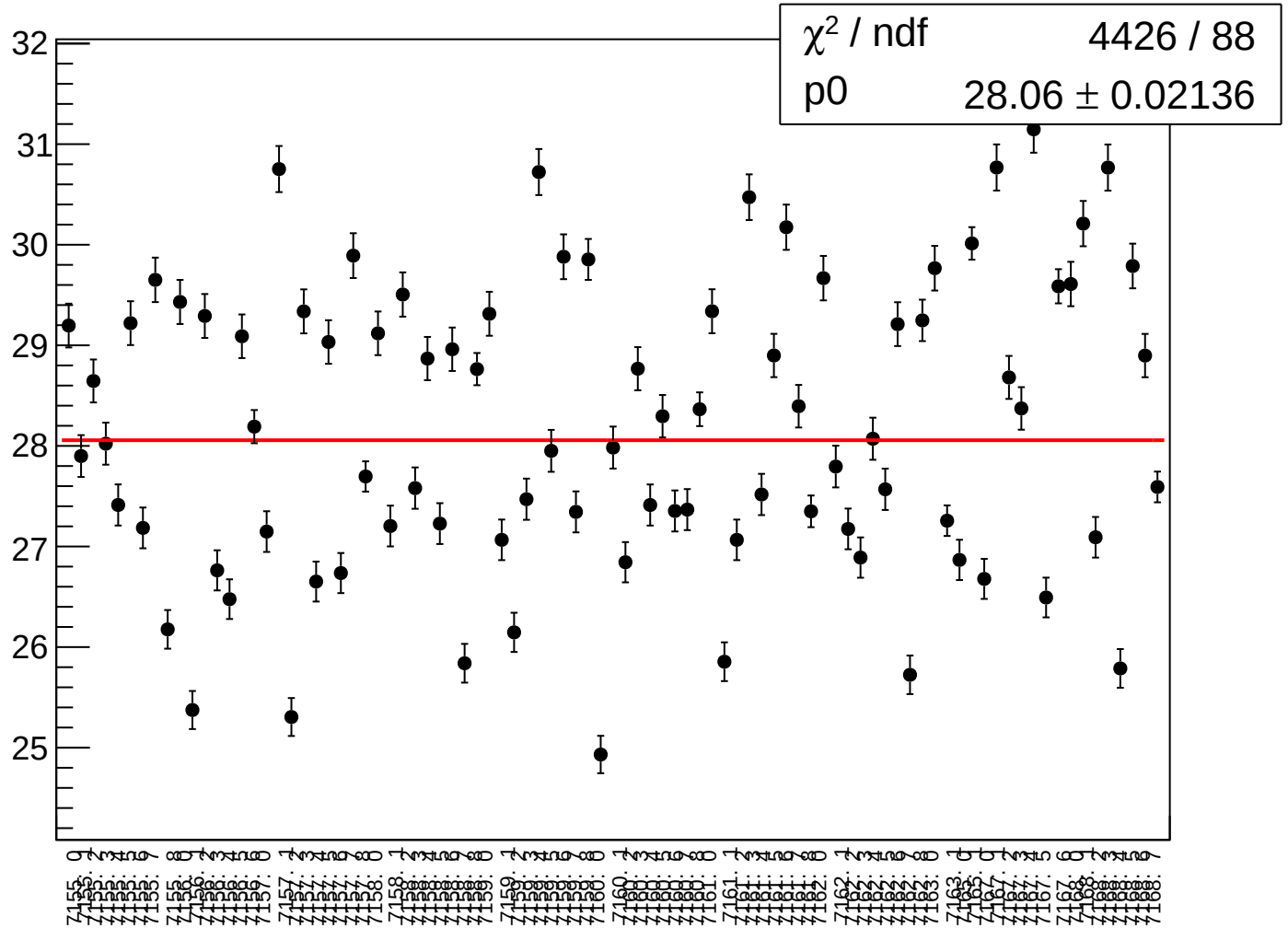

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 24.58 / 88
p0 −33.39 ± 188.1
pull
Entries 89
Mean 213.8
Std Dev 0
pull1D
Entries 89
Mean 0.007723
Std Dev 0.5255

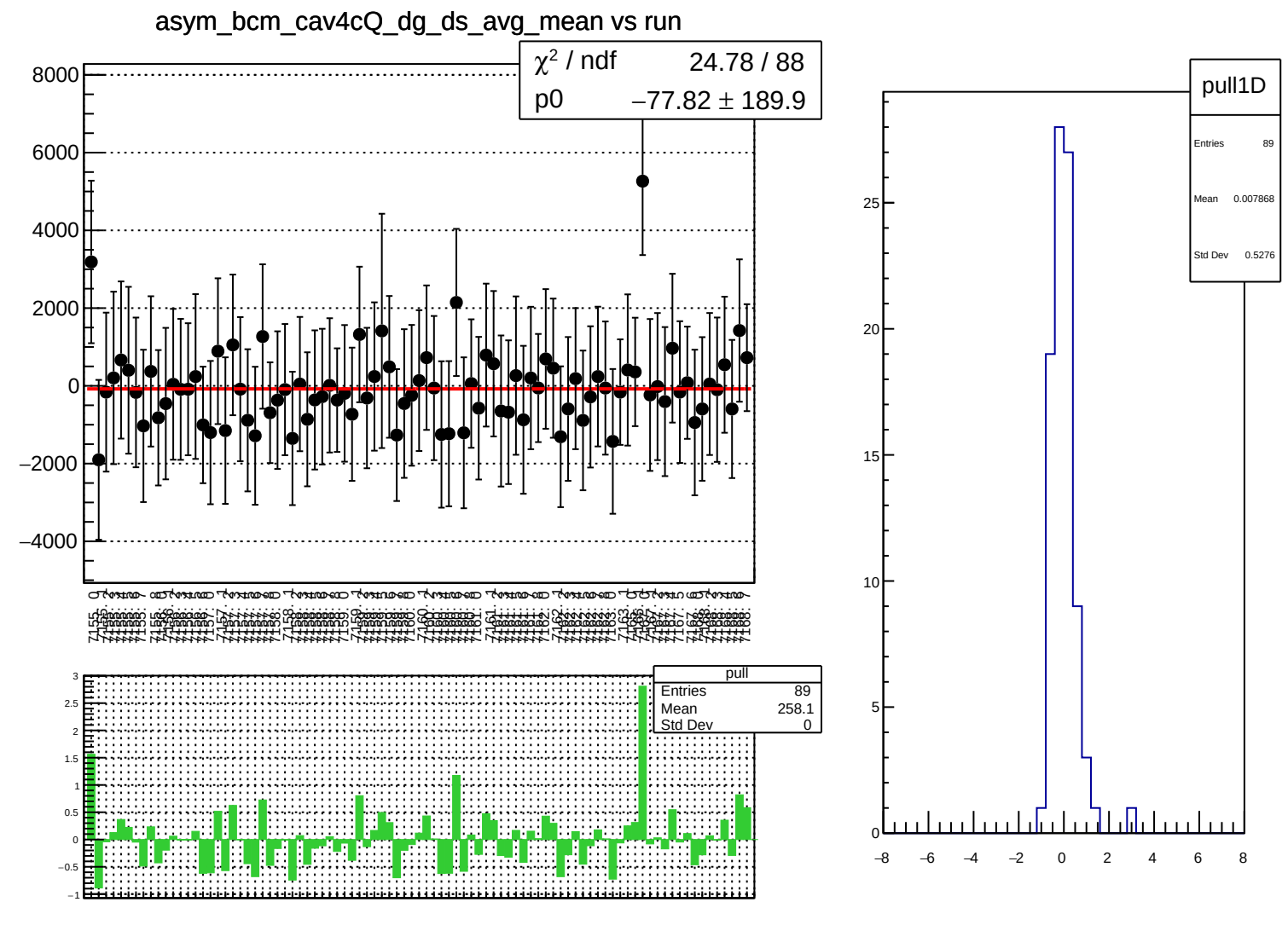

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ^2 / ndf 7662 / 88
p0 174.6 ± 0.133
280
260
240
220
200
180
160

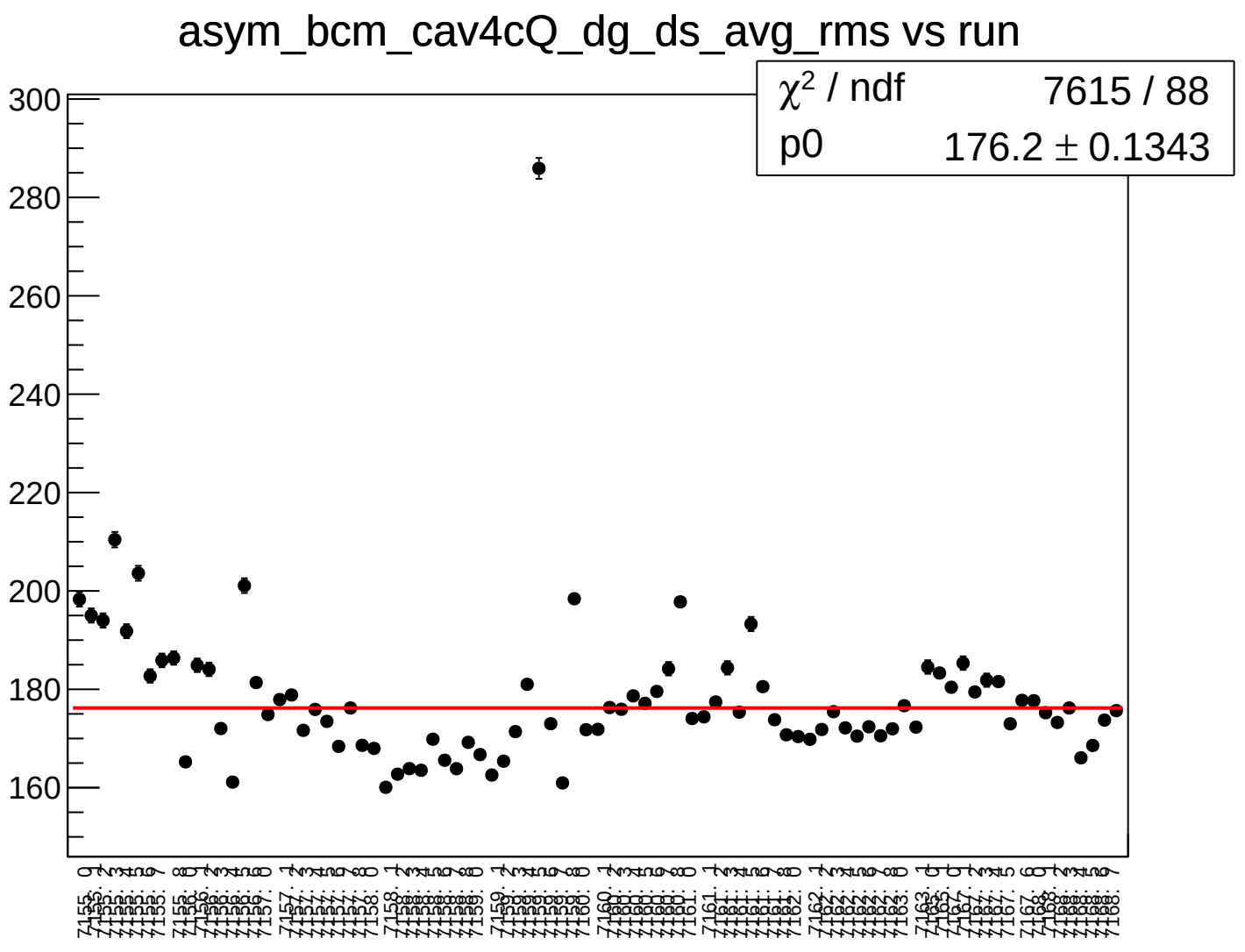

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 83 / 88
p0 45.98 ± 30.2
1000
500
0
−500
−1000
pull
Entries 89
Mean 79.29
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

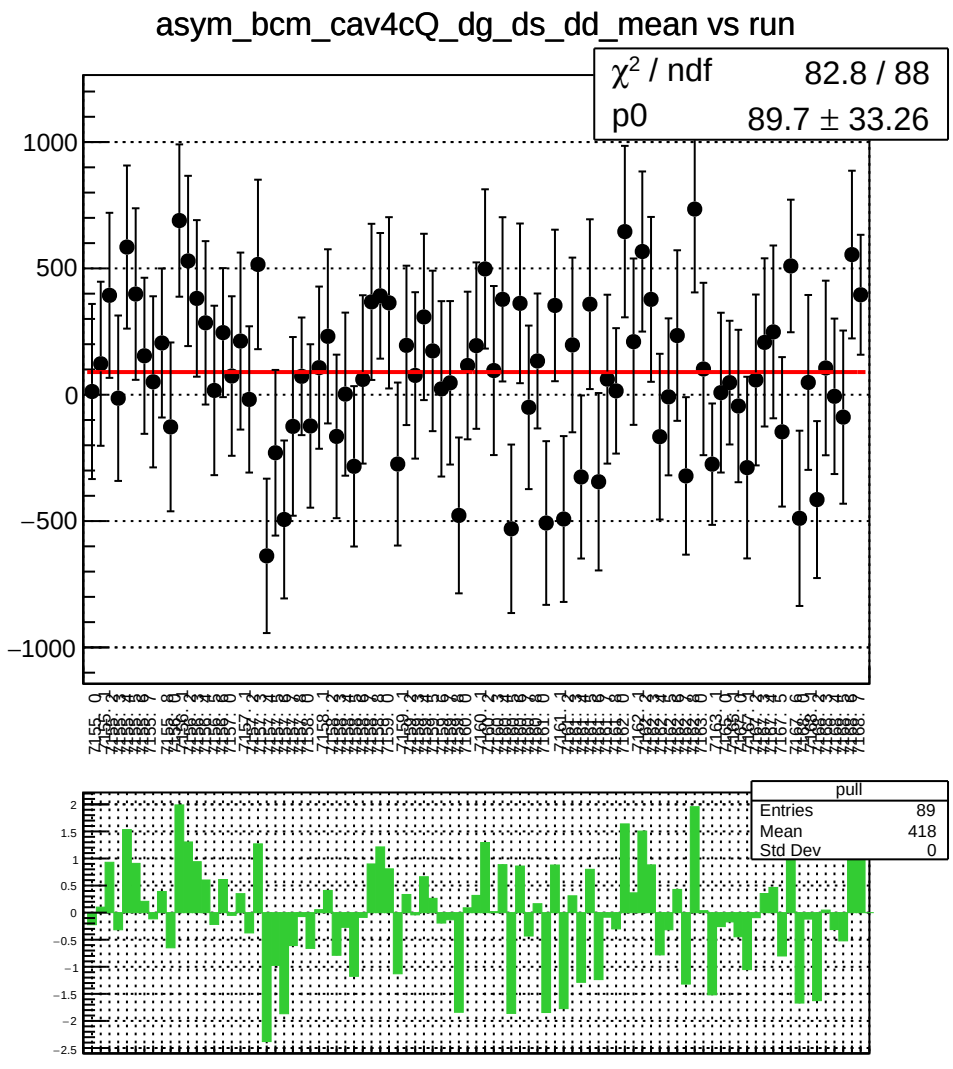

pull1D
Entries 89
Mean −0.007122
Std Dev 0.9657
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

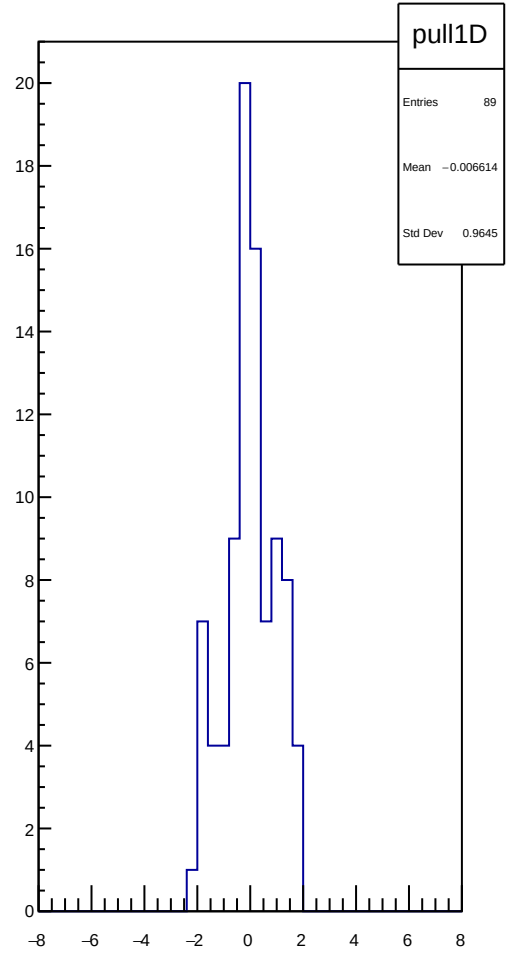
asym_bcm_cav4cQ_an_ds_dd_rms vs run

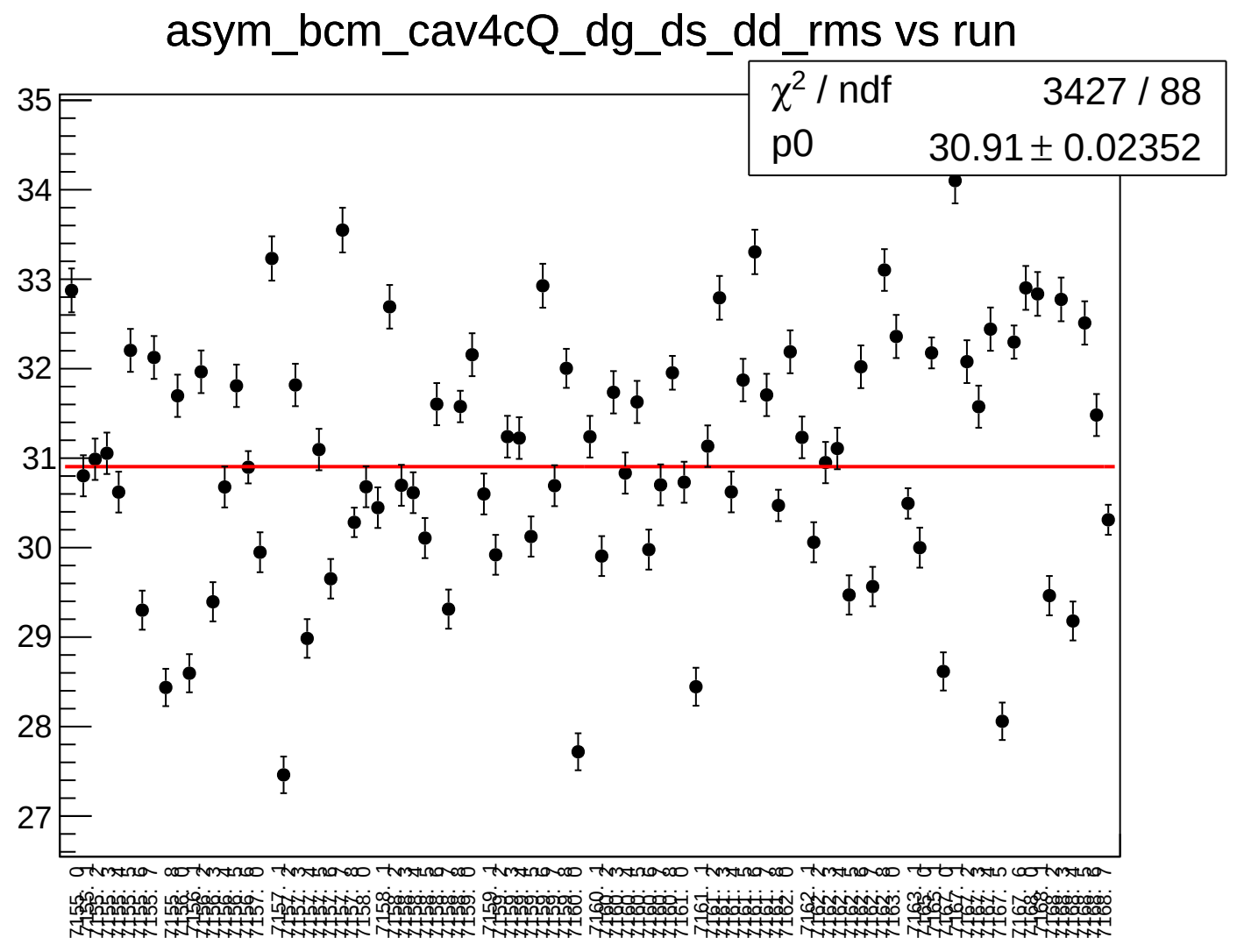


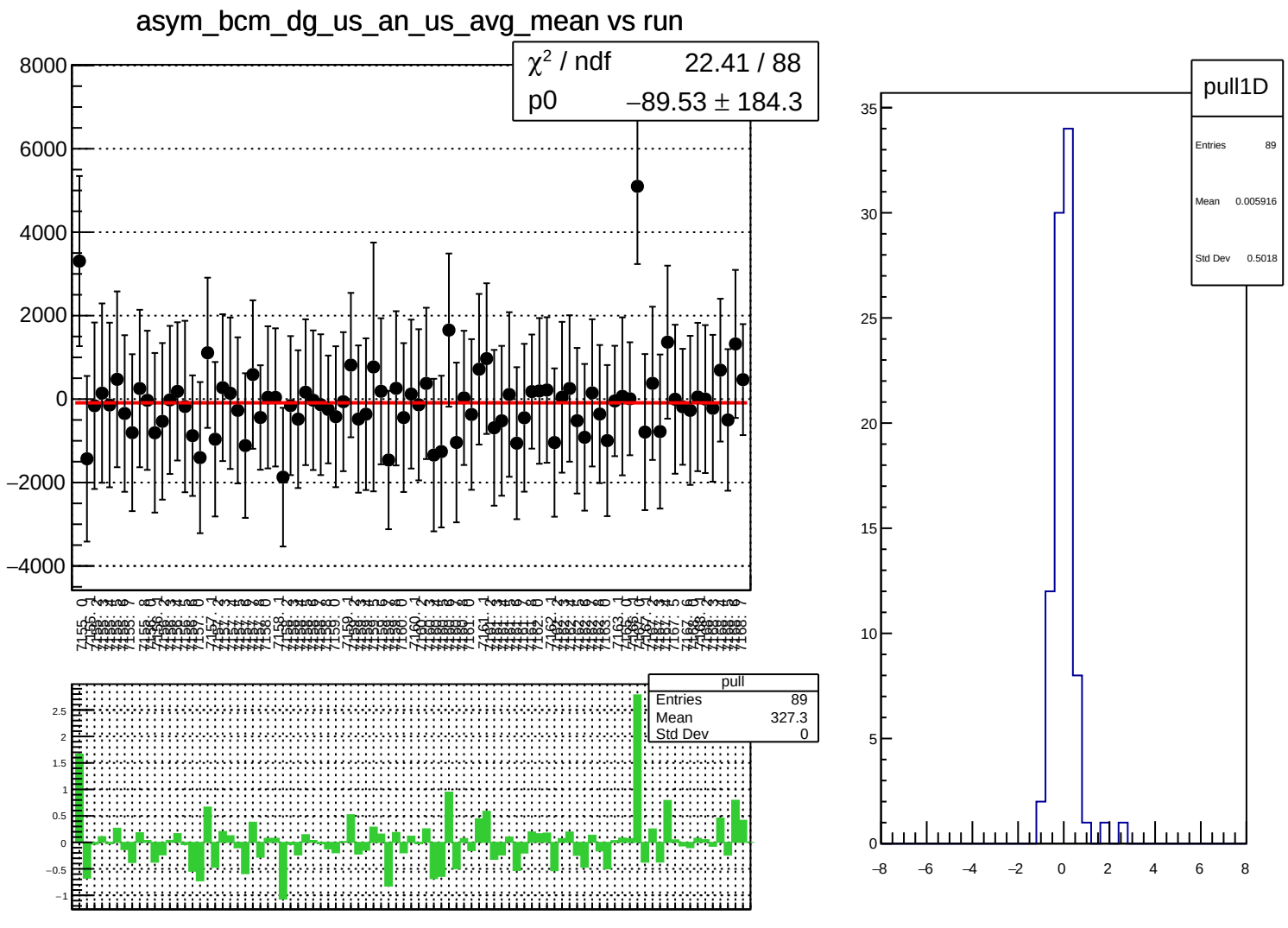

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 24.78 / 88
p0 −77.82 ± 189.9
pull
Entries 89
Mean 258.1
Std Dev 0
pull1D
Entries 89
Mean 0.007868
Std Dev 0.5276

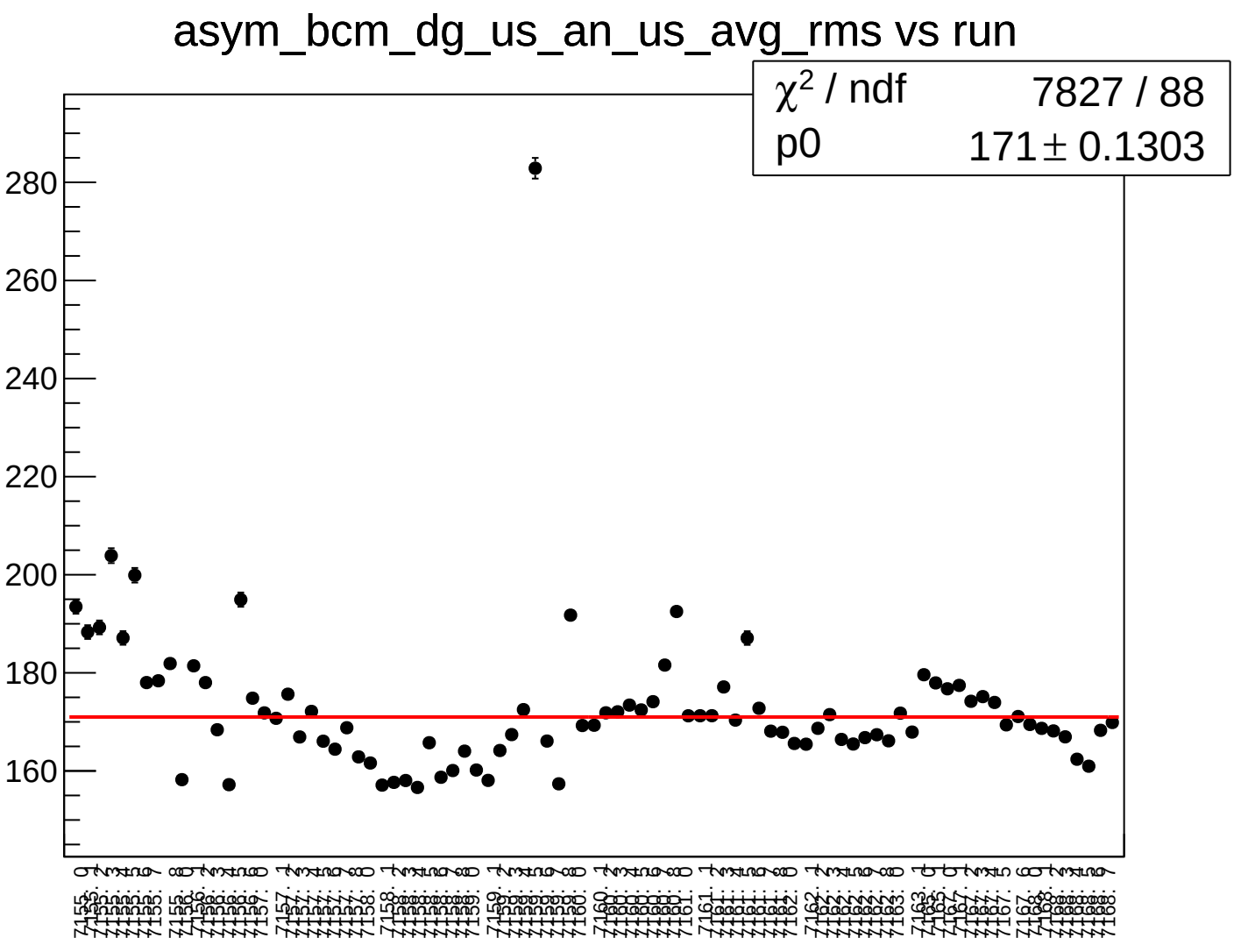

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 7615 / 88
p0 176.2 ± 0.1343
300
280
260
240
220
200
180
160

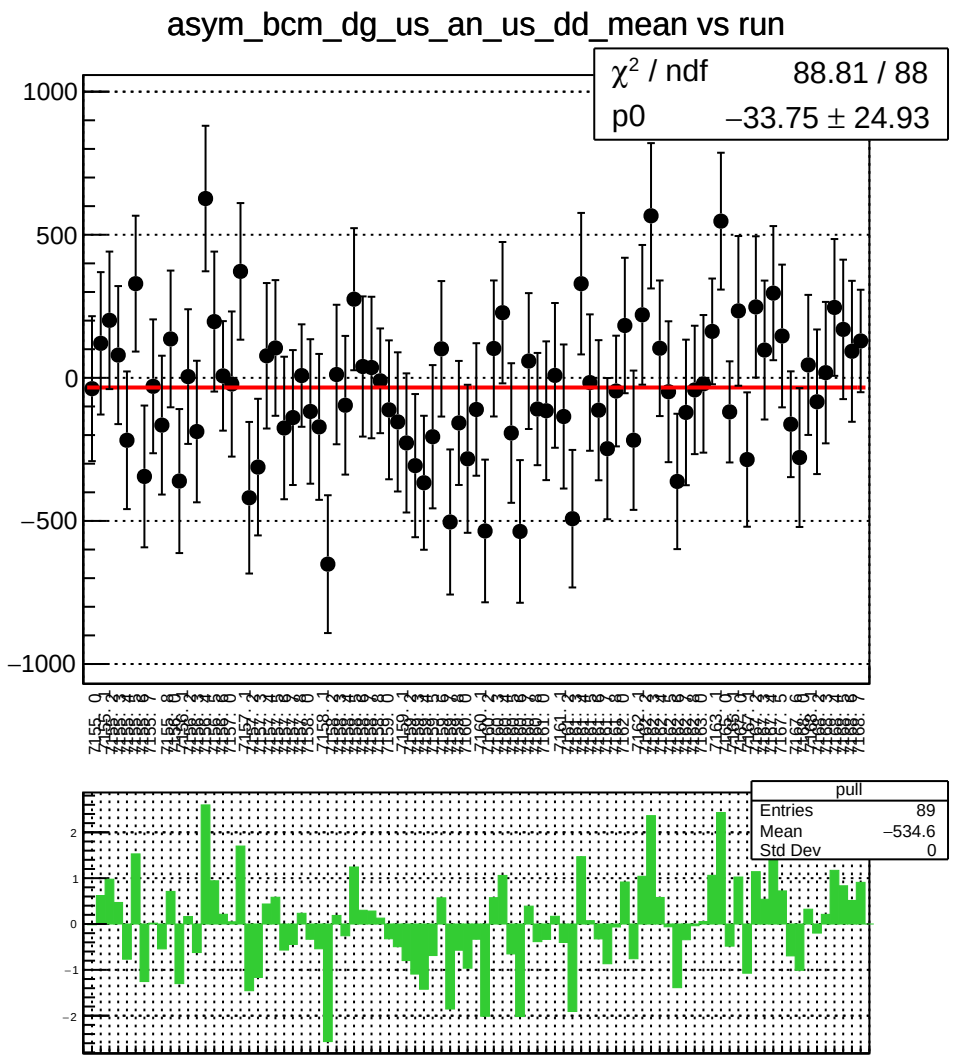

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 82.8 / 88
p0 89.7 ± 33.26
1000
500
0
−500
−1000
pull
Entries 89
Mean 418
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

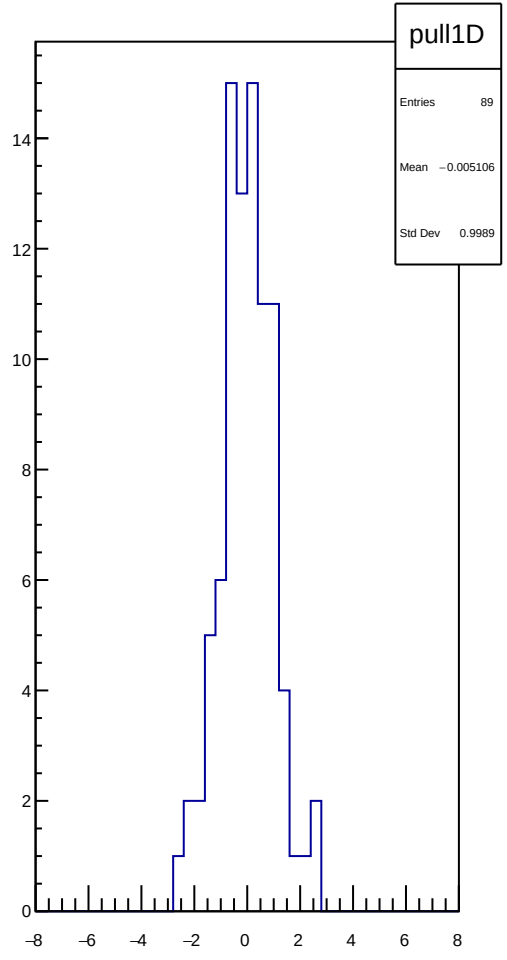

pull1D
Entries 89
Mean −0.006614
Std Dev 0.9645
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

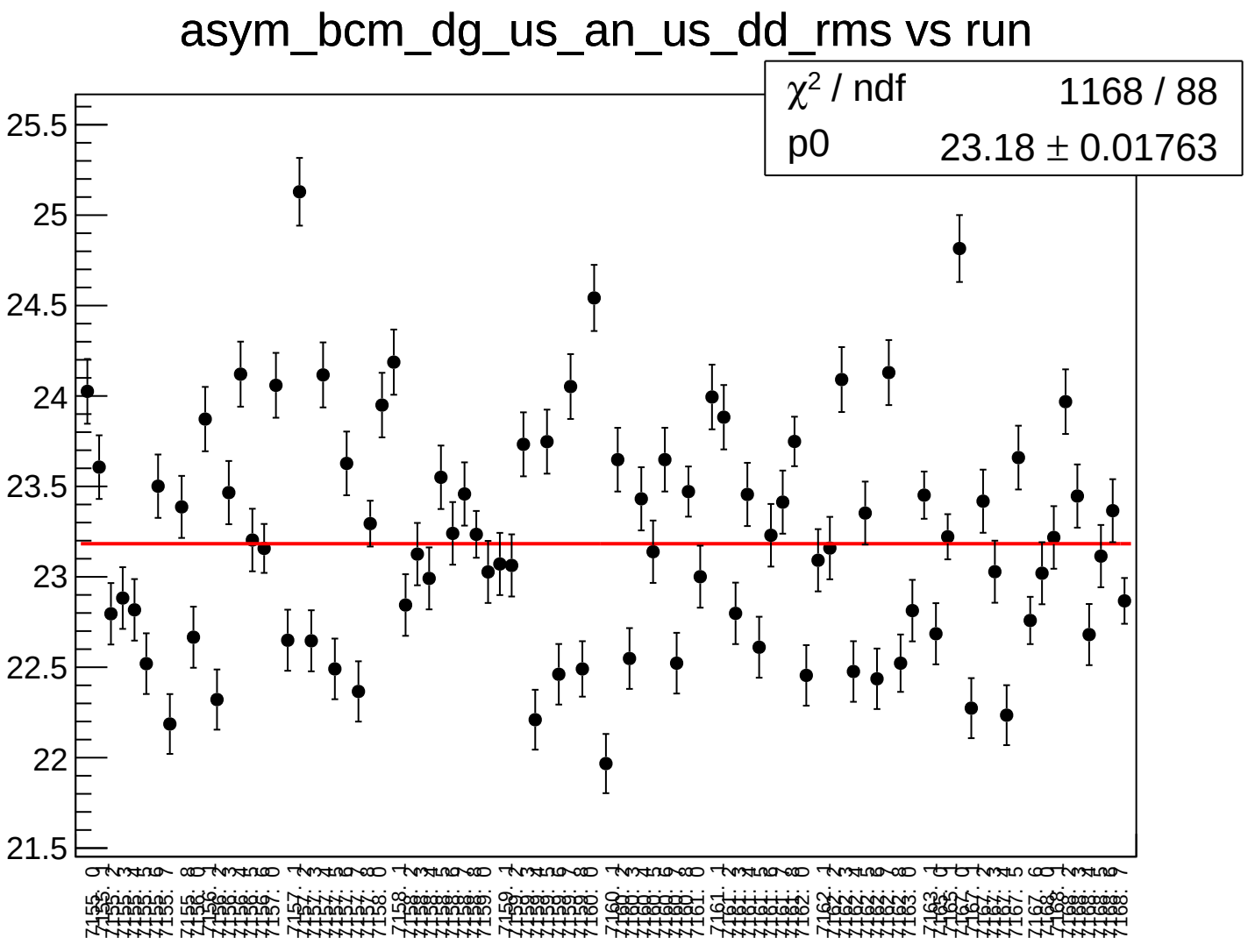

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 3427 / 88
p0 30.91 ± 0.02352
35
34
33
32
31
30
29
28
27

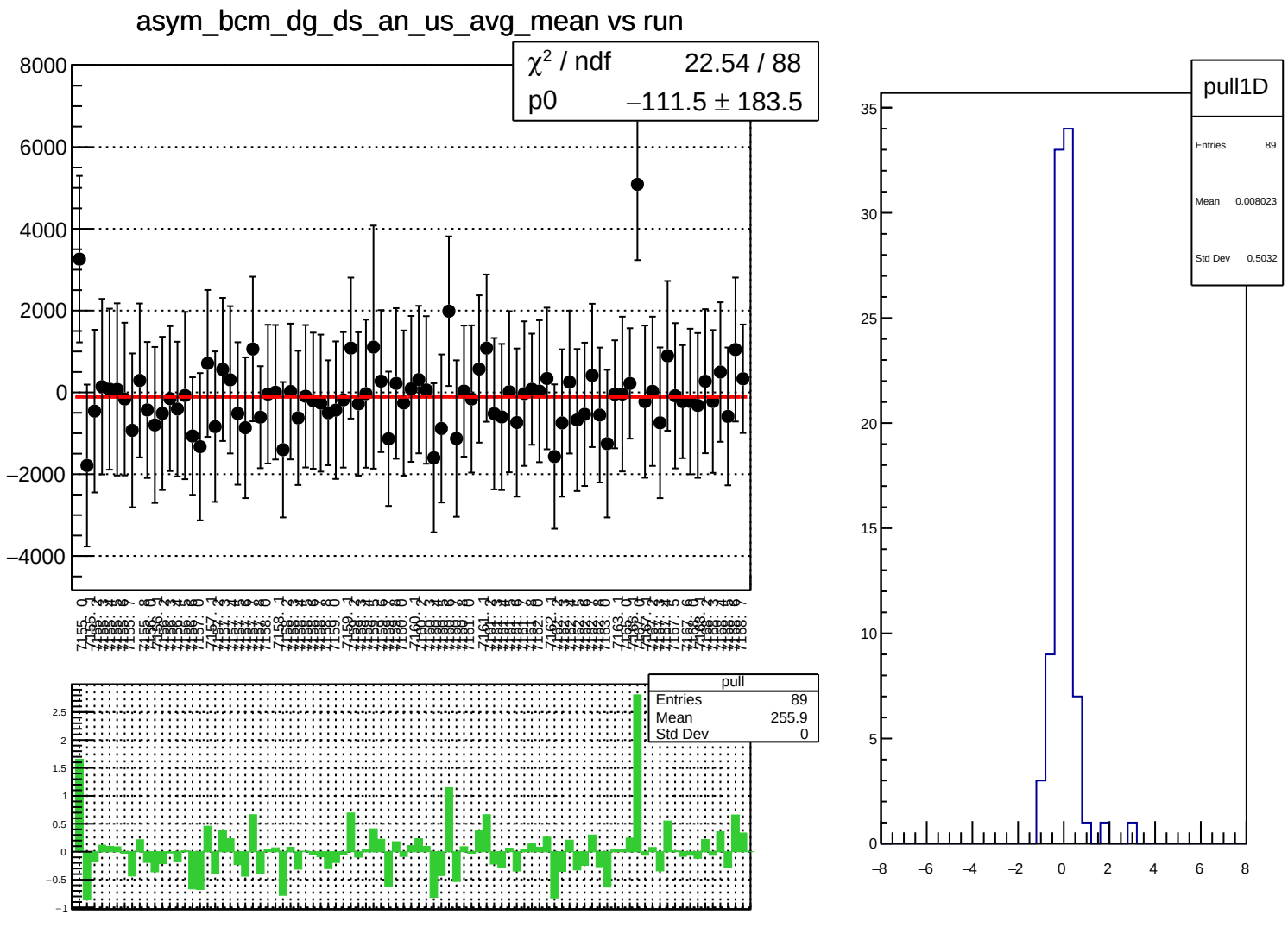

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 22.41 / 88
p0 −89.53 ± 184.3
pull
Entries 89
Mean 327.3
Std Dev 0
pull1D
Entries 89
Mean 0.005916
Std Dev 0.5018

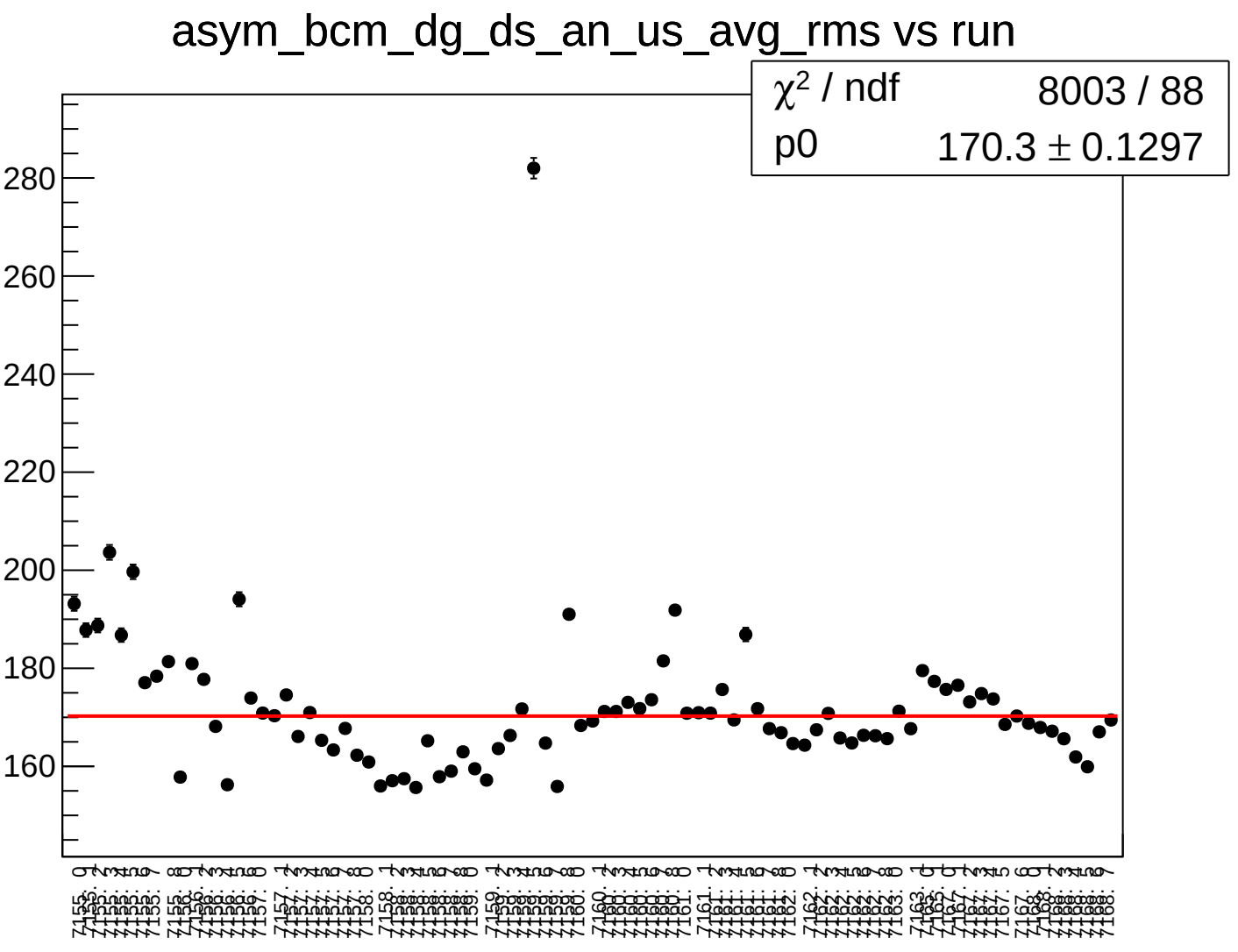

asym_bcm_dg_us_an_us_avg_rms vs run
χ^2 / ndf 7827 / 88
p0 171 ± 0.1303
280
260
240
220
200
180
160

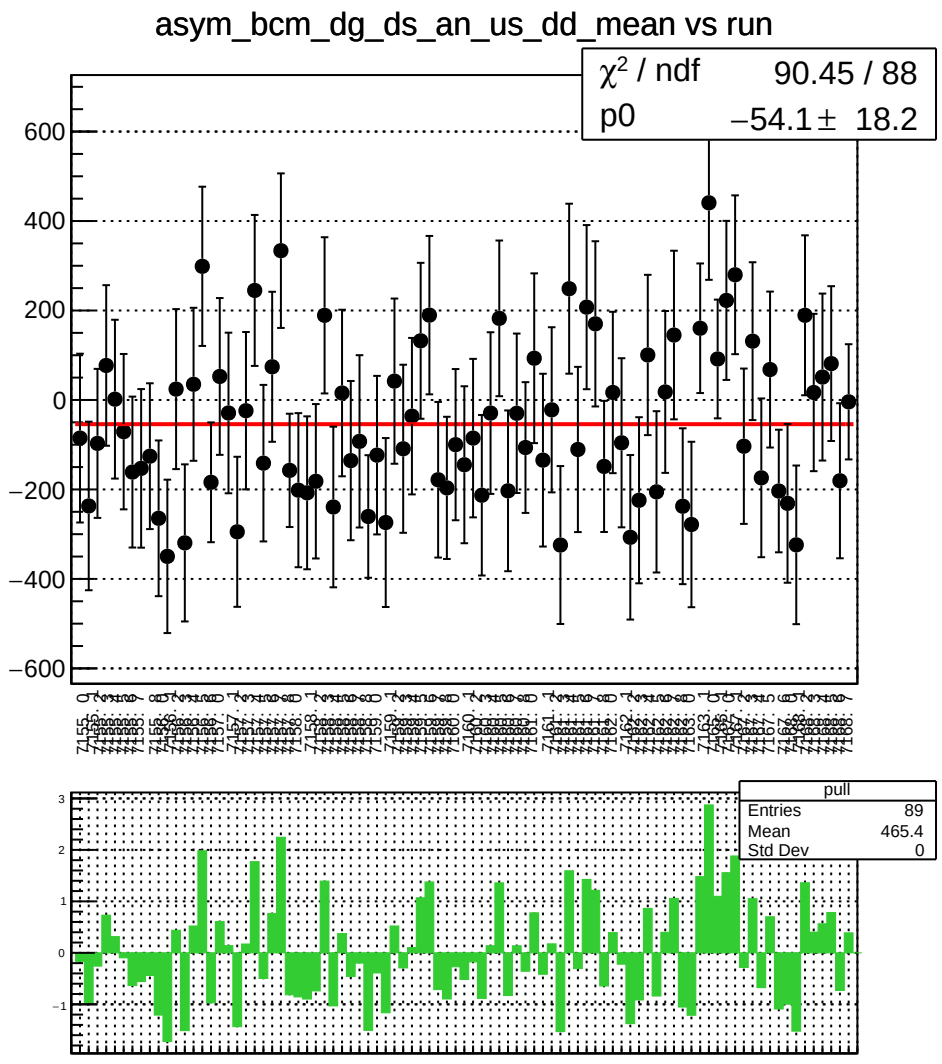

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 88.81 / 88
p0 −33.75 ± 24.93
1000
500
0
−500
−1000
pull
Entries 89
Mean −534.6
Std Dev 0
2
1
0
−1
−2

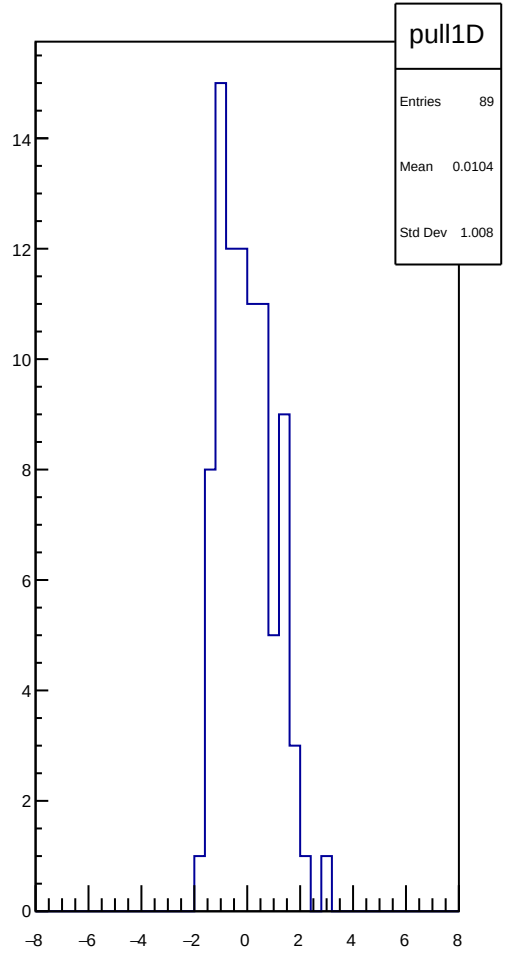

pull1D
Entries 89
Mean −0.005106
Std Dev 0.9989
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

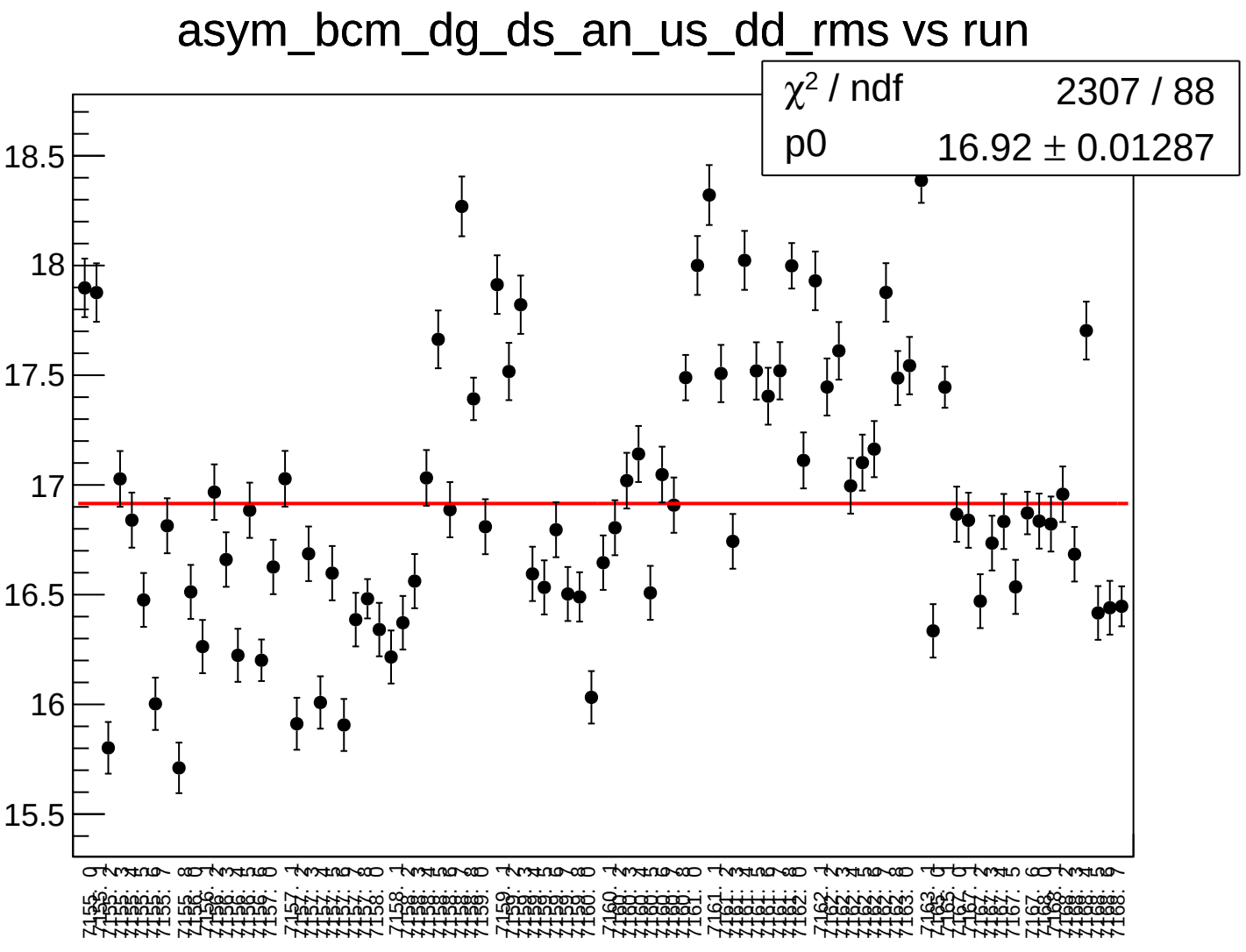

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 1168 / 88
p0 23.18 ± 0.01763
25.5
25
24.5
24
23.5
23
22.5
22
21.5

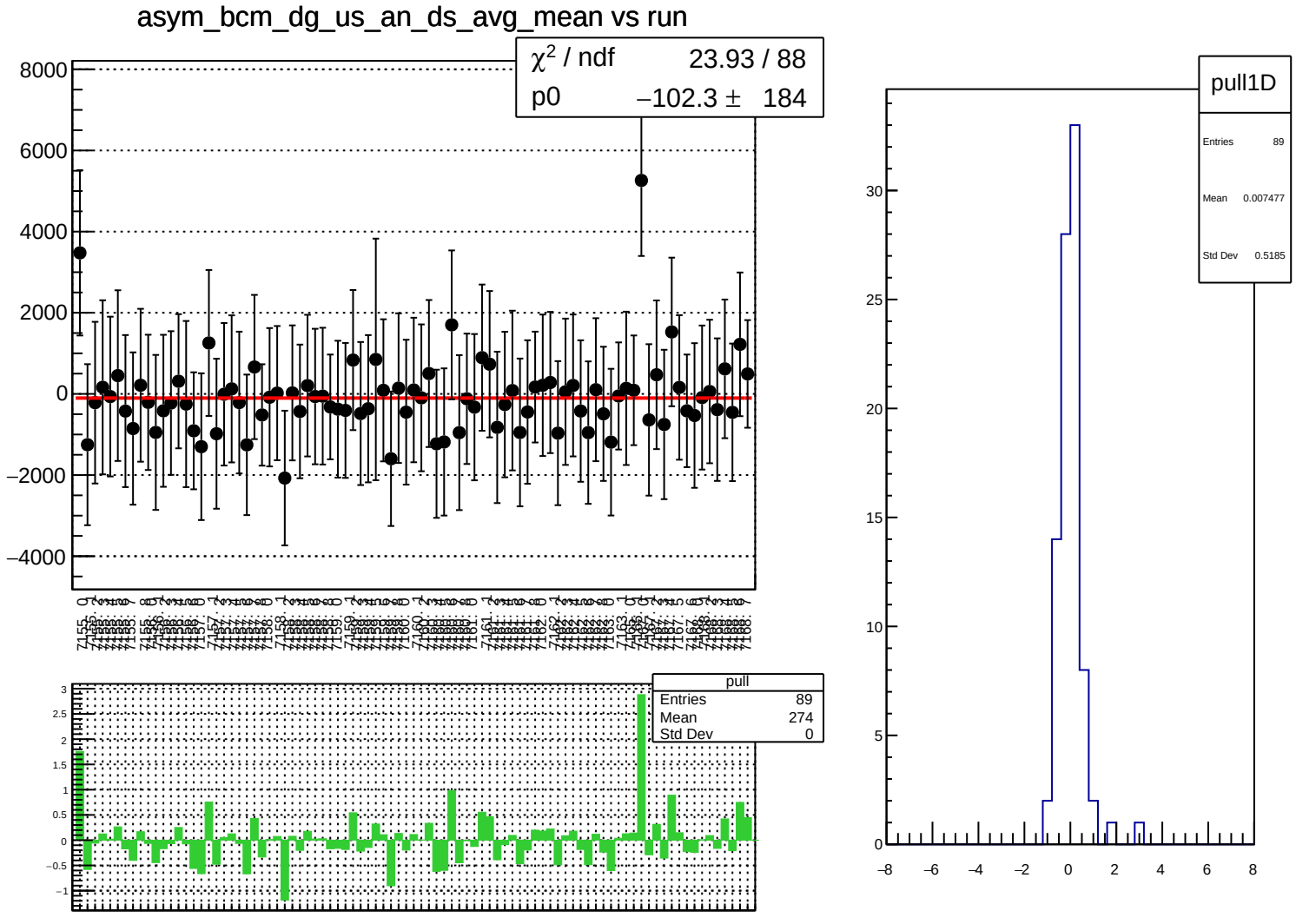

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 22.54 / 88
p0 −111.5 ± 183.5
pull
Entries 89
Mean 255.9
Std Dev 0
pull1D
Entries 89
Mean 0.008023
Std Dev 0.5032

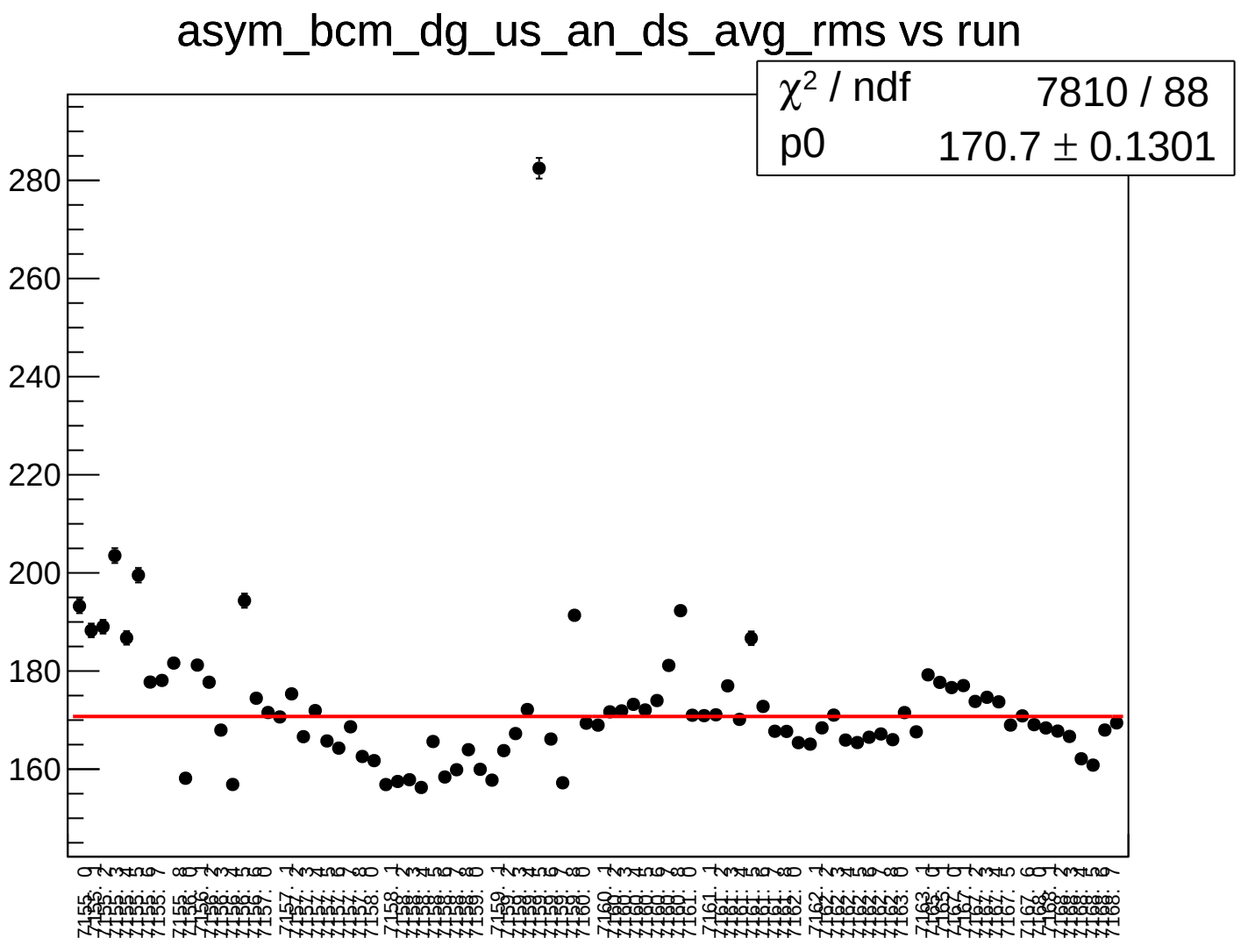

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 8003 / 88
p0 170.3 ± 0.1297
280
260
240
220
200
180
160

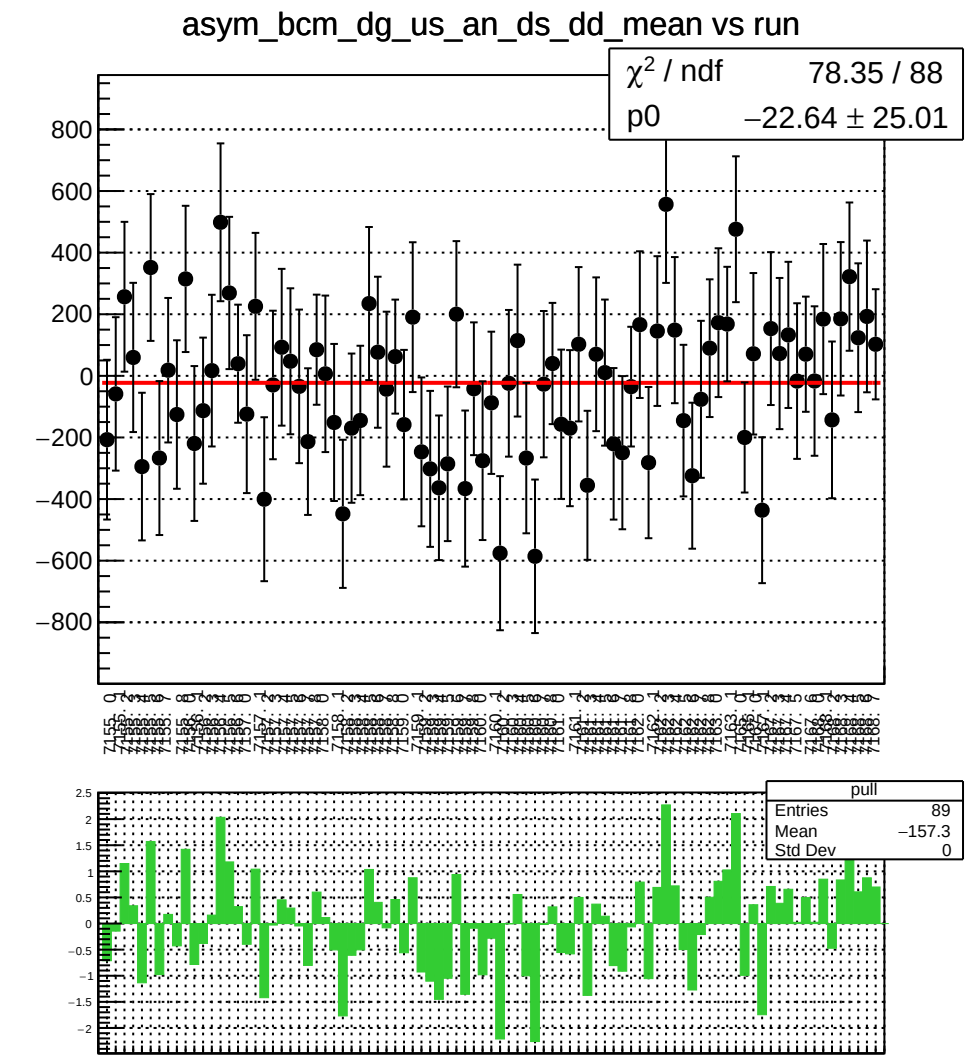

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 90.45 / 88
p0 −54.1 ± 18.2
600
400
200
0
−200
−400
−600
pull
Entries 89
Mean 465.4
Std Dev 0
3
2
1
0
−1

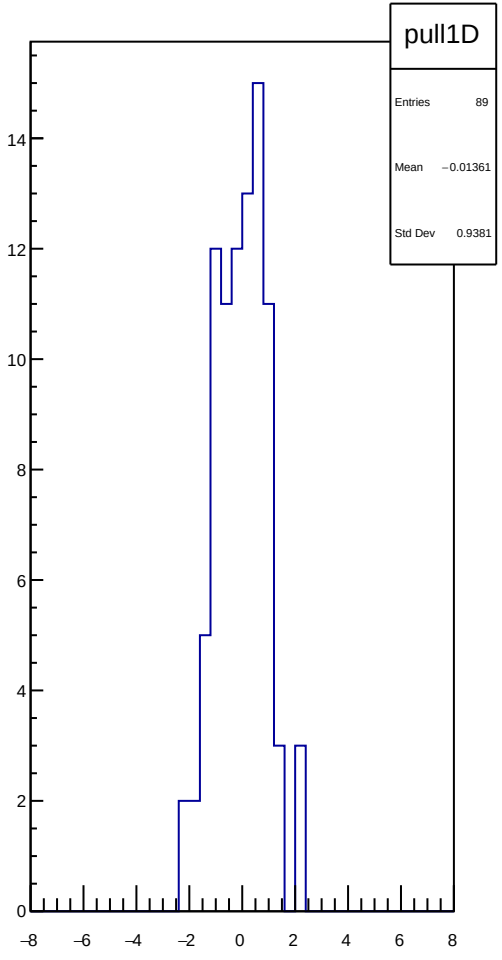

pull1D
Entries 89
Mean 0.0104
Std Dev 1.008
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

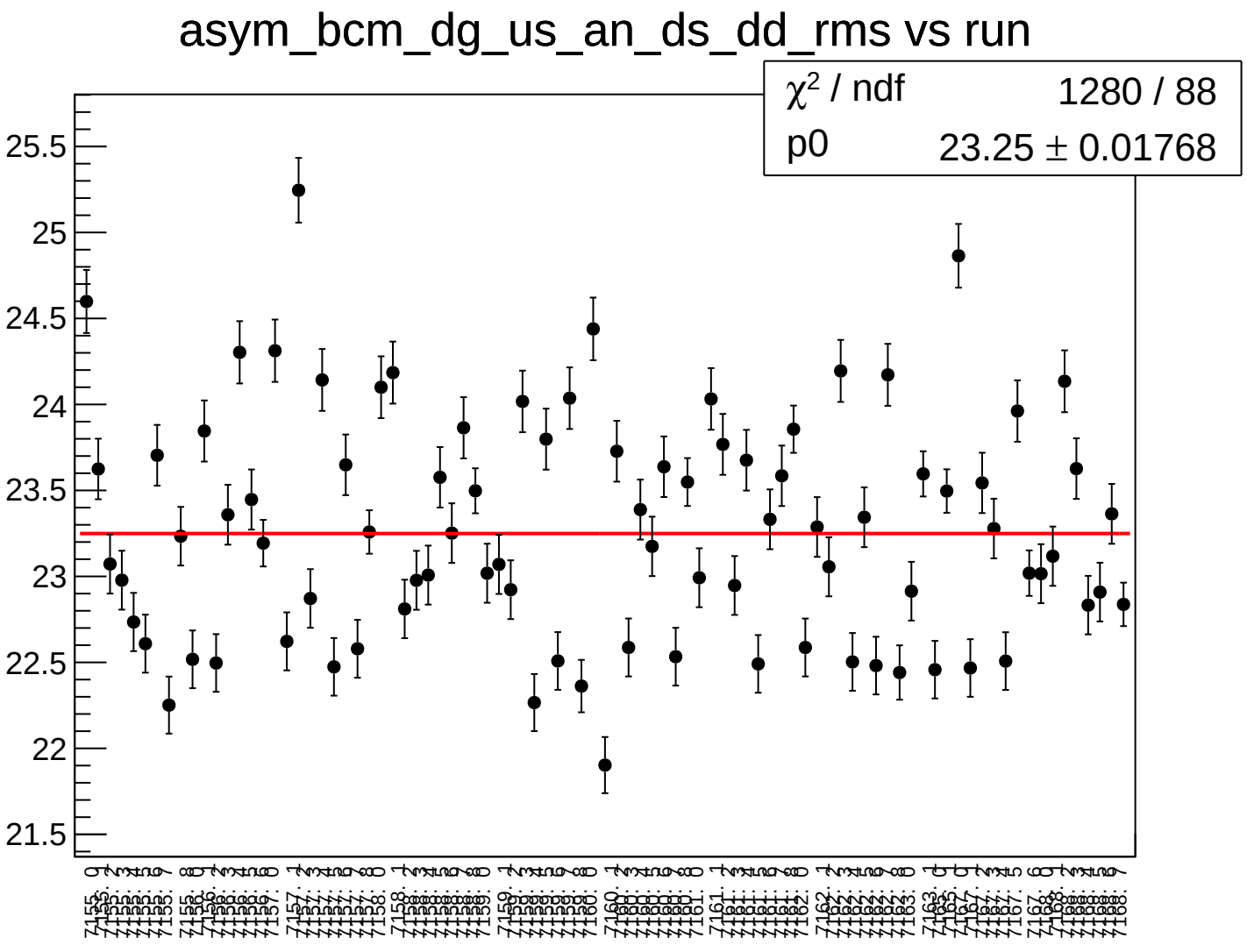

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2307 / 88
p0 16.92 ± 0.01287
18.5
18
17.5
17
16.5
16
15.5

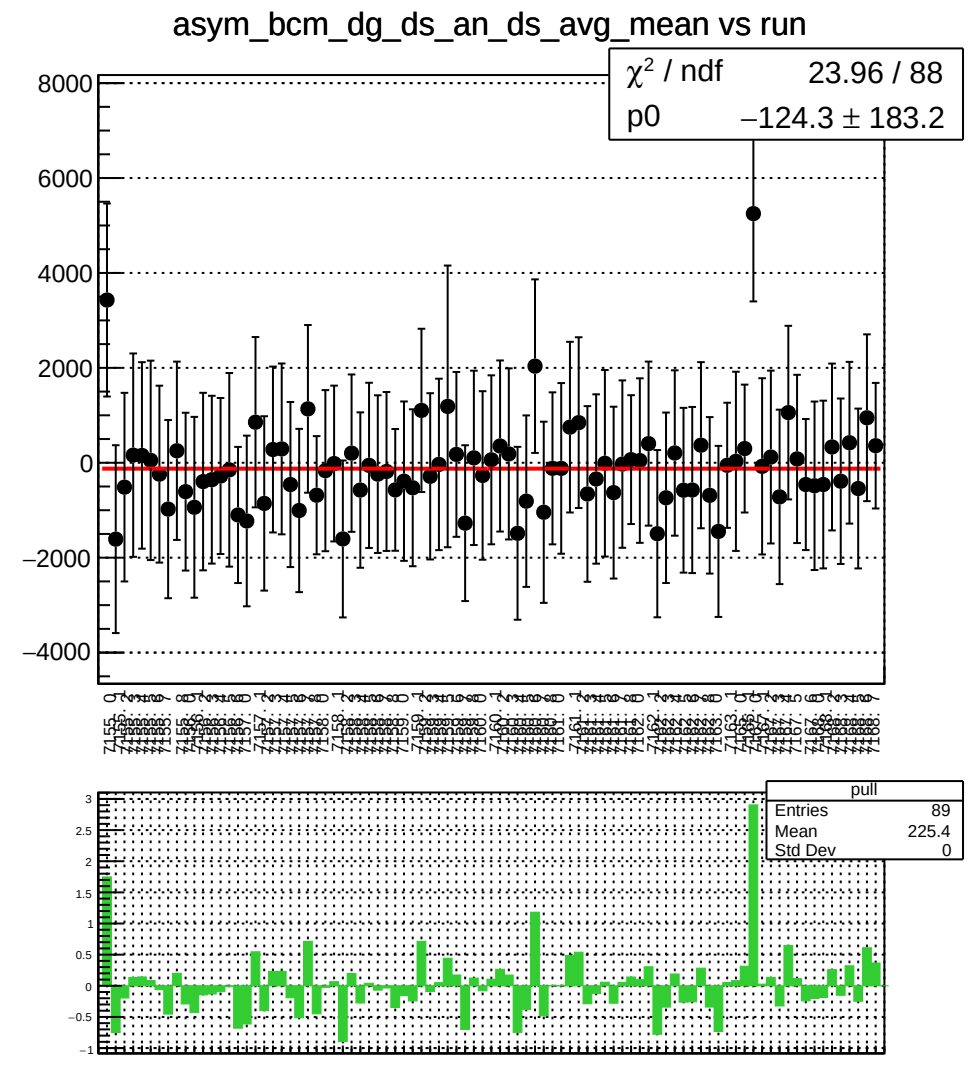

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 23.93 / 88
p0 −102.3 ± 184
pull
Entries 89
Mean 274
Std Dev 0
pull1D
Entries 89
Mean 0.007477
Std Dev 0.5185

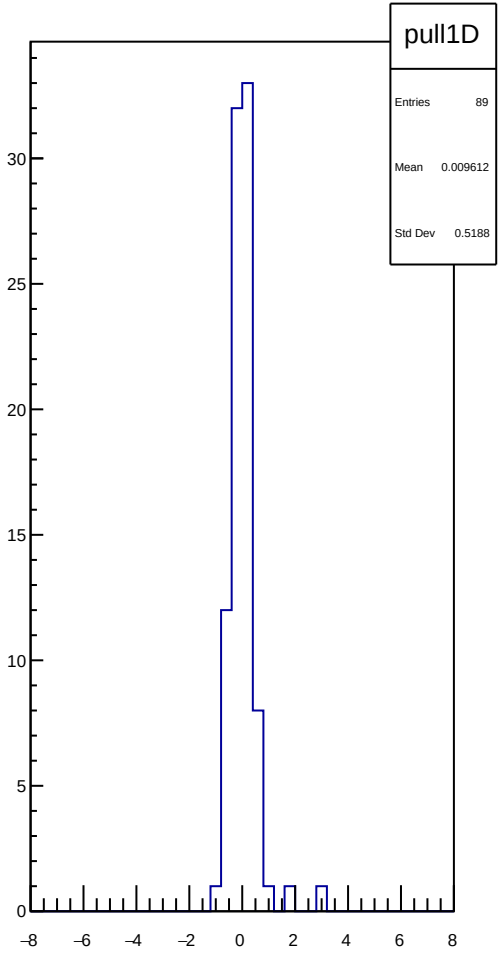

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 7810 / 88
p0 170.7 ± 0.1301
280
260
240
220
200
180
160

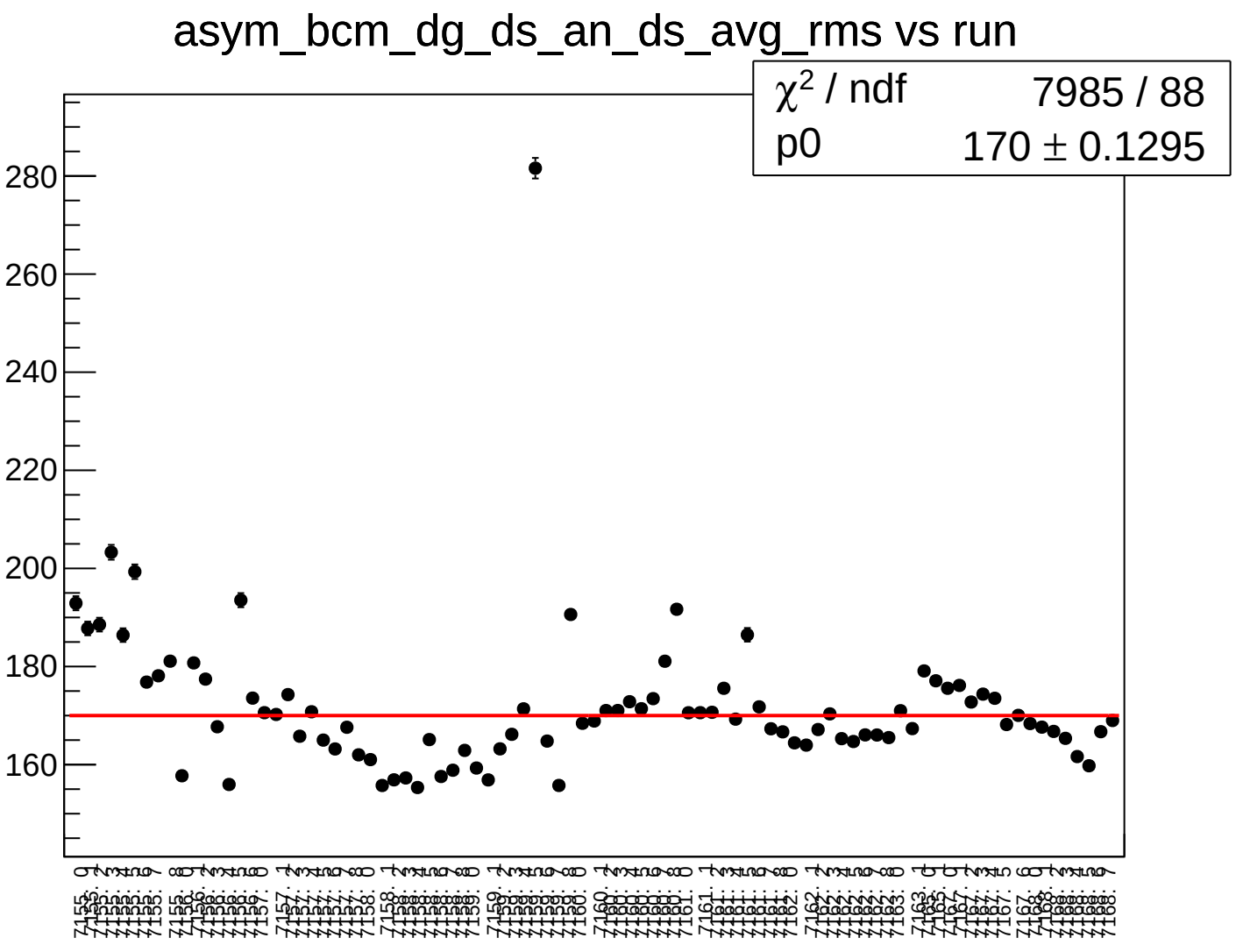

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 78.35 / 88
p0 −22.64 ± 25.01
pull
Entries 89
Mean −157.3
Std Dev 0

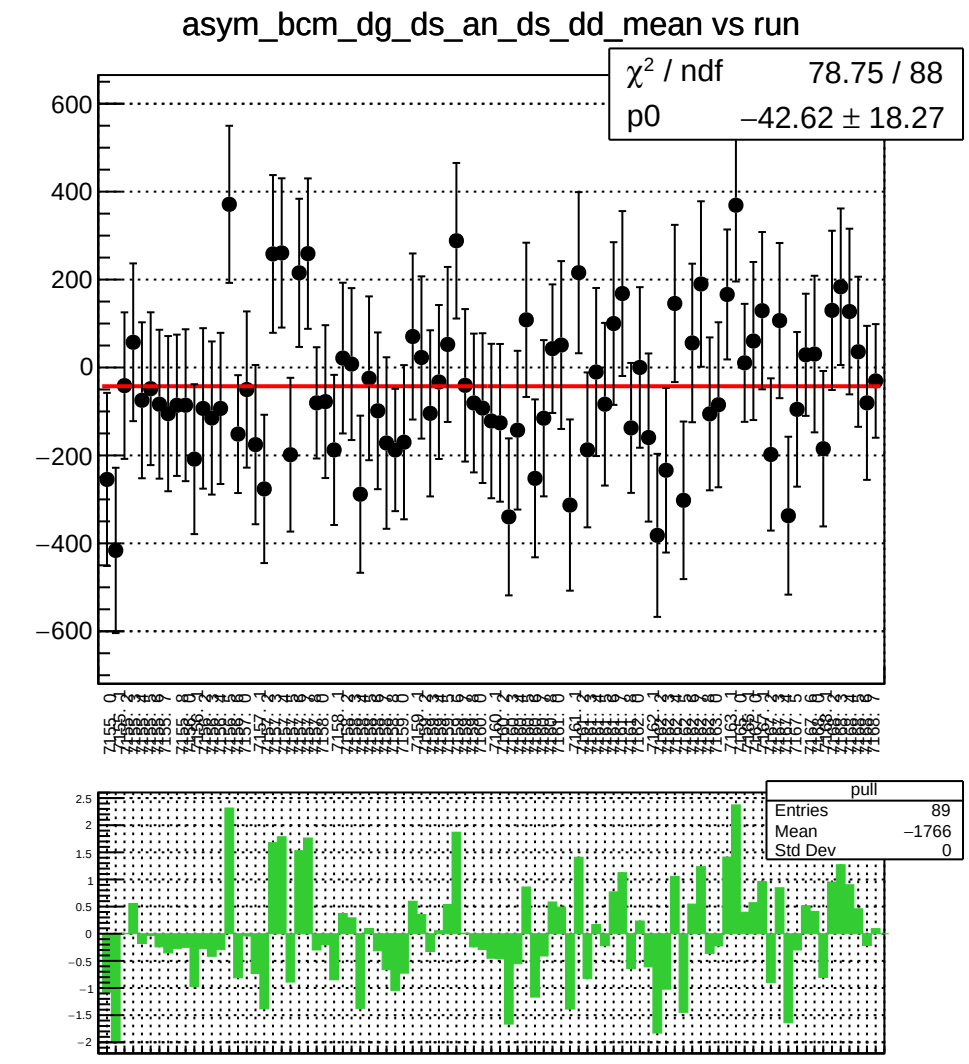

pull1D
Entries 89
Mean −0.01361
Std Dev 0.9381

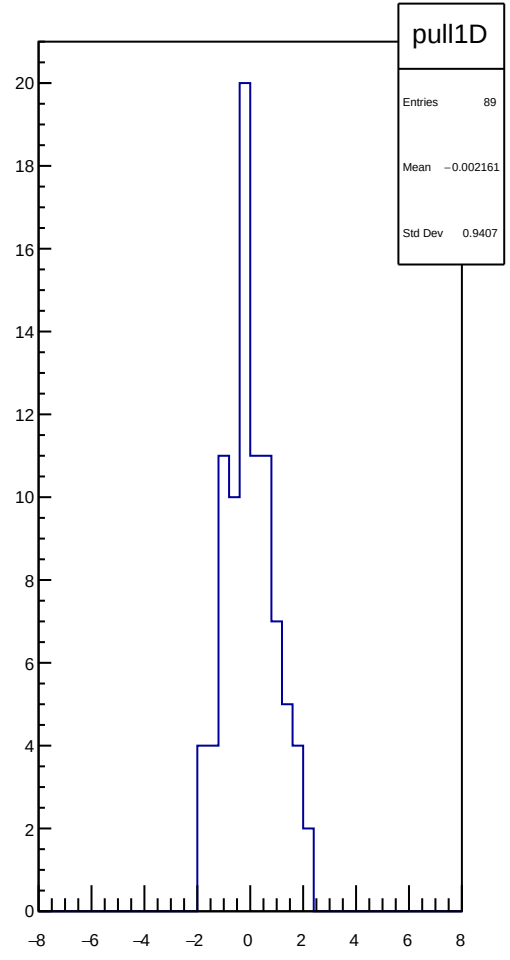

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 1280 / 88
p0 23.25 ± 0.01768
25.5
25
24.5
24
23.5
23
22.5
22
21.5

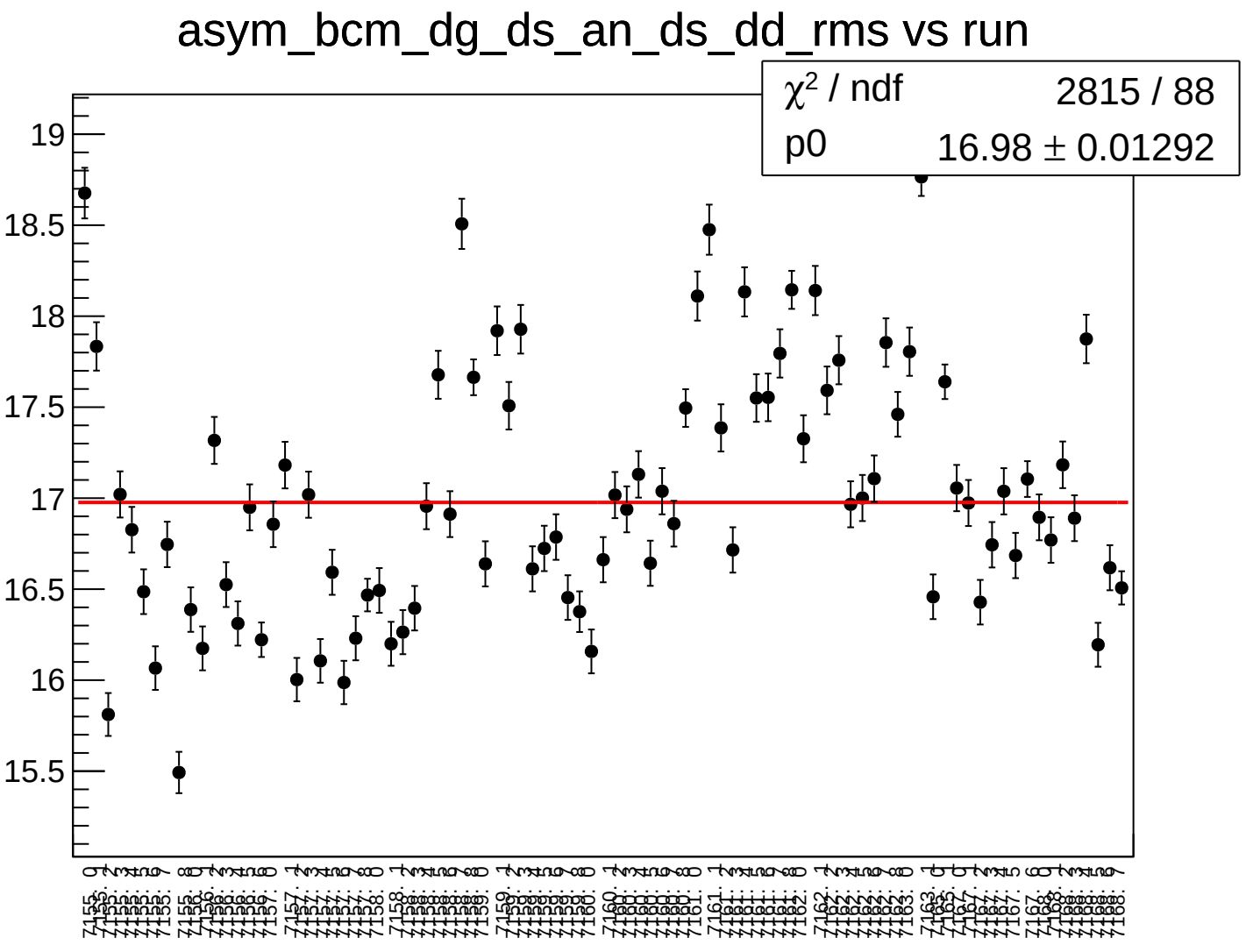

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 23.96 / 88
p0 −124.3 ± 183.2
pull
Entries 89
Mean 225.4
Std Dev 0

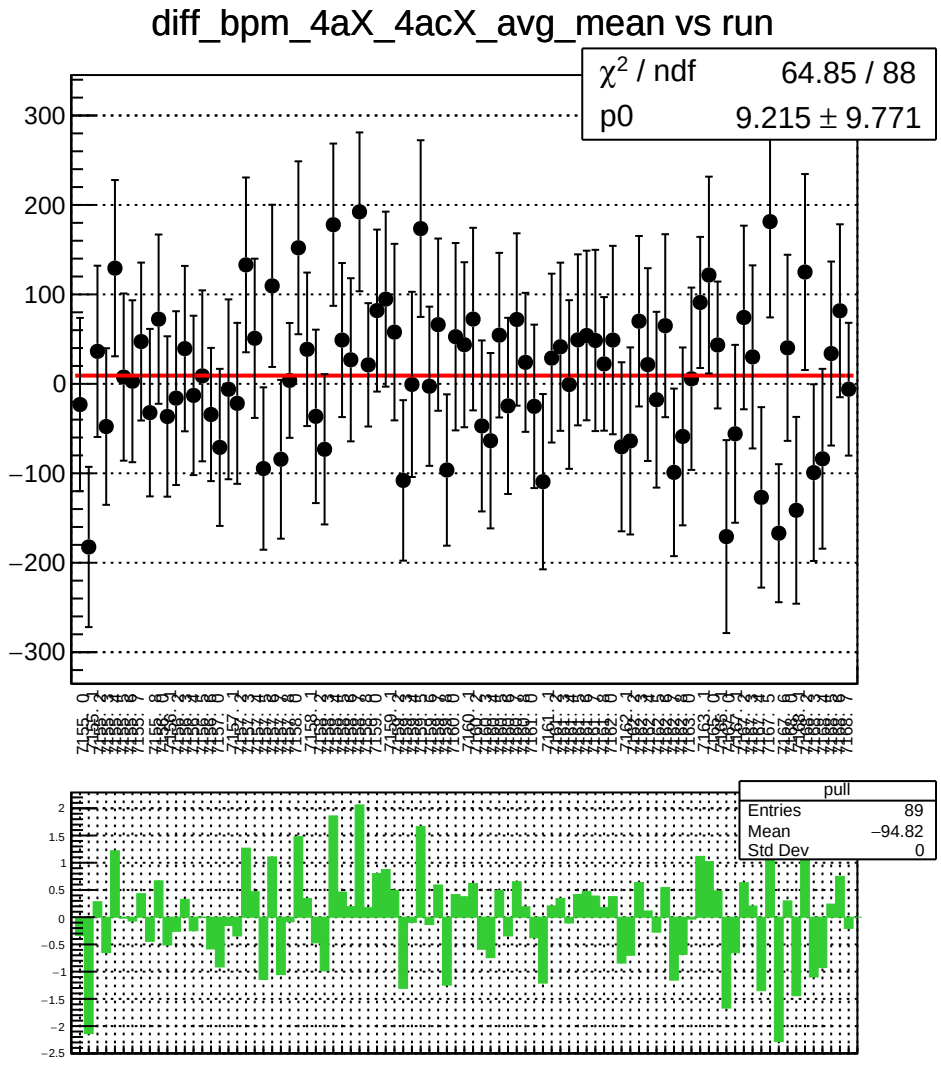

pull1D
Entries 89
Mean 0.009612
Std Dev 0.5188

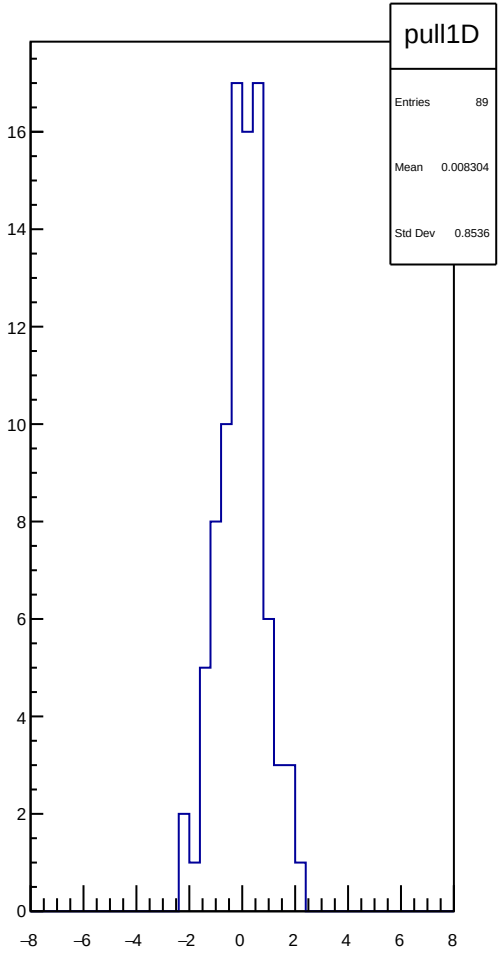

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 7985 / 88
p0 170 ± 0.1295
280
260
240
220
200
180
160

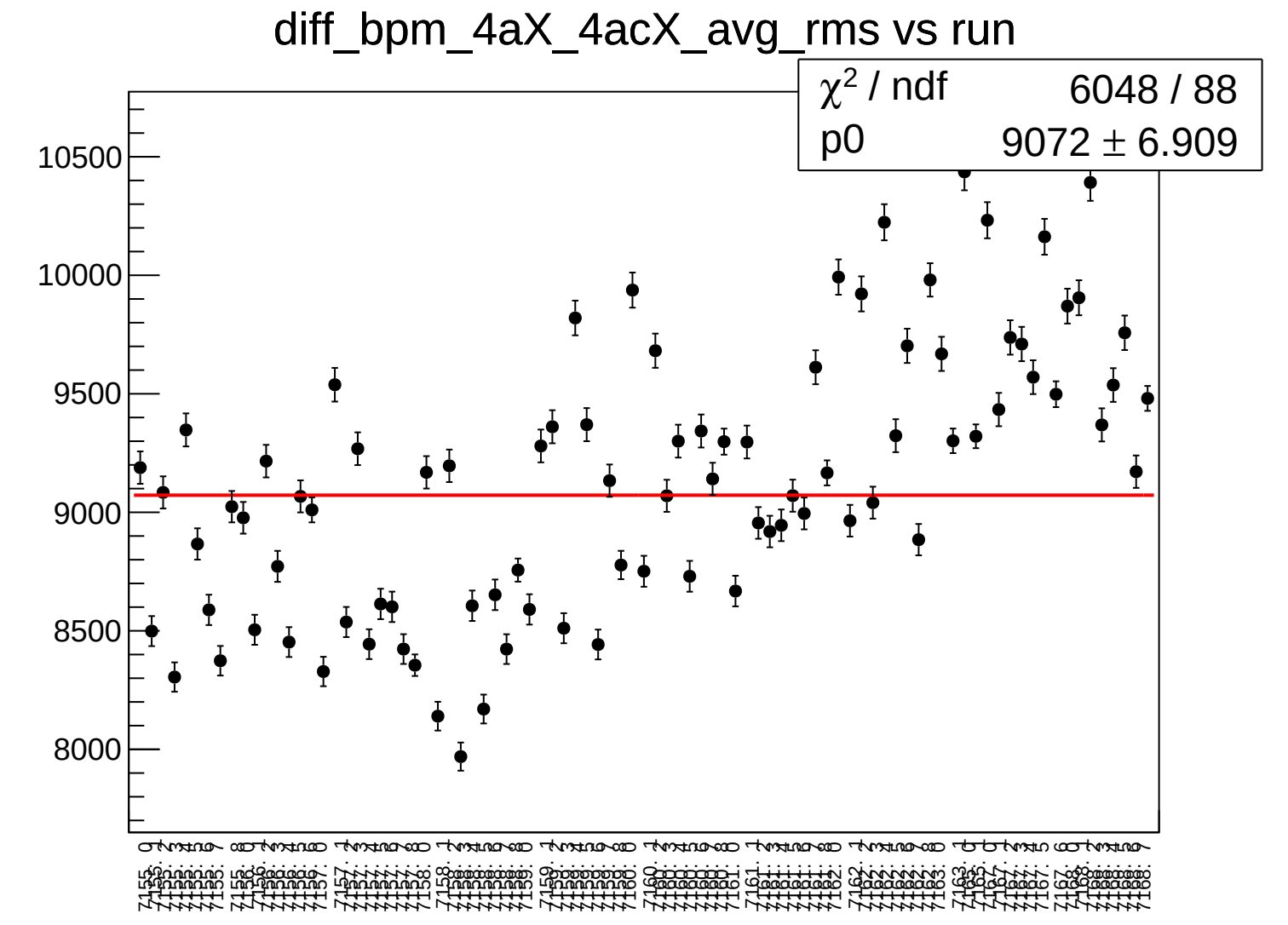

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 78.75 / 88
p0 −42.62 ± 18.27
pull
Entries 89
Mean −1766
Std Dev 0

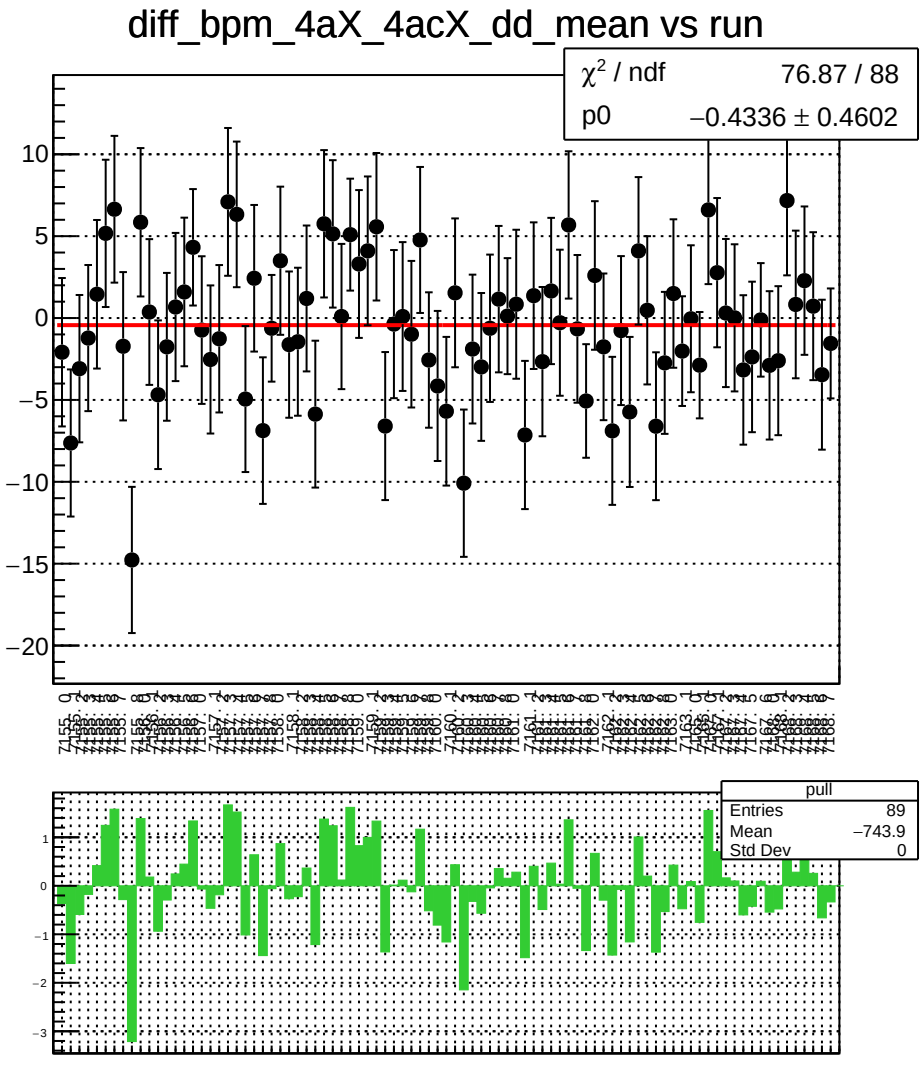

pull1D
Entries 89
Mean −0.002161
Std Dev 0.9407

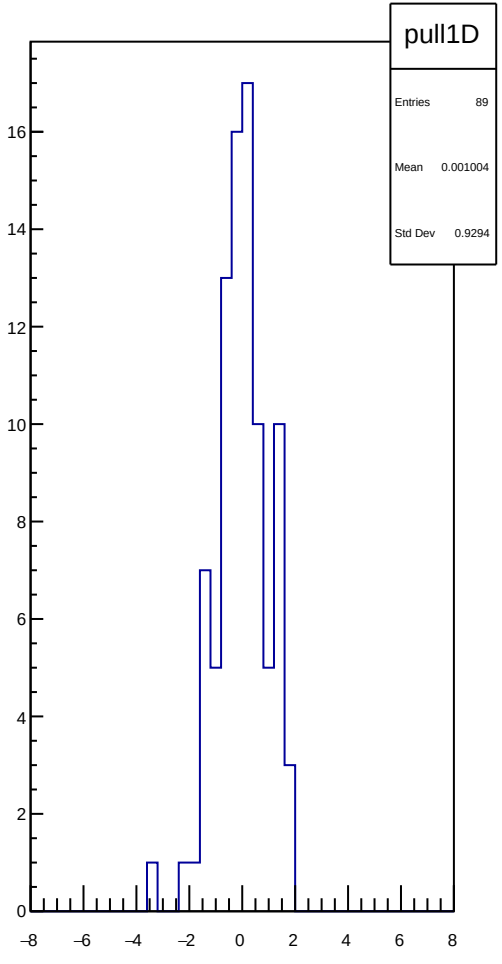

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2815 / 88
p0 16.98 ± 0.01292
19
18.5
18
17.5
17
16.5
16
15.5

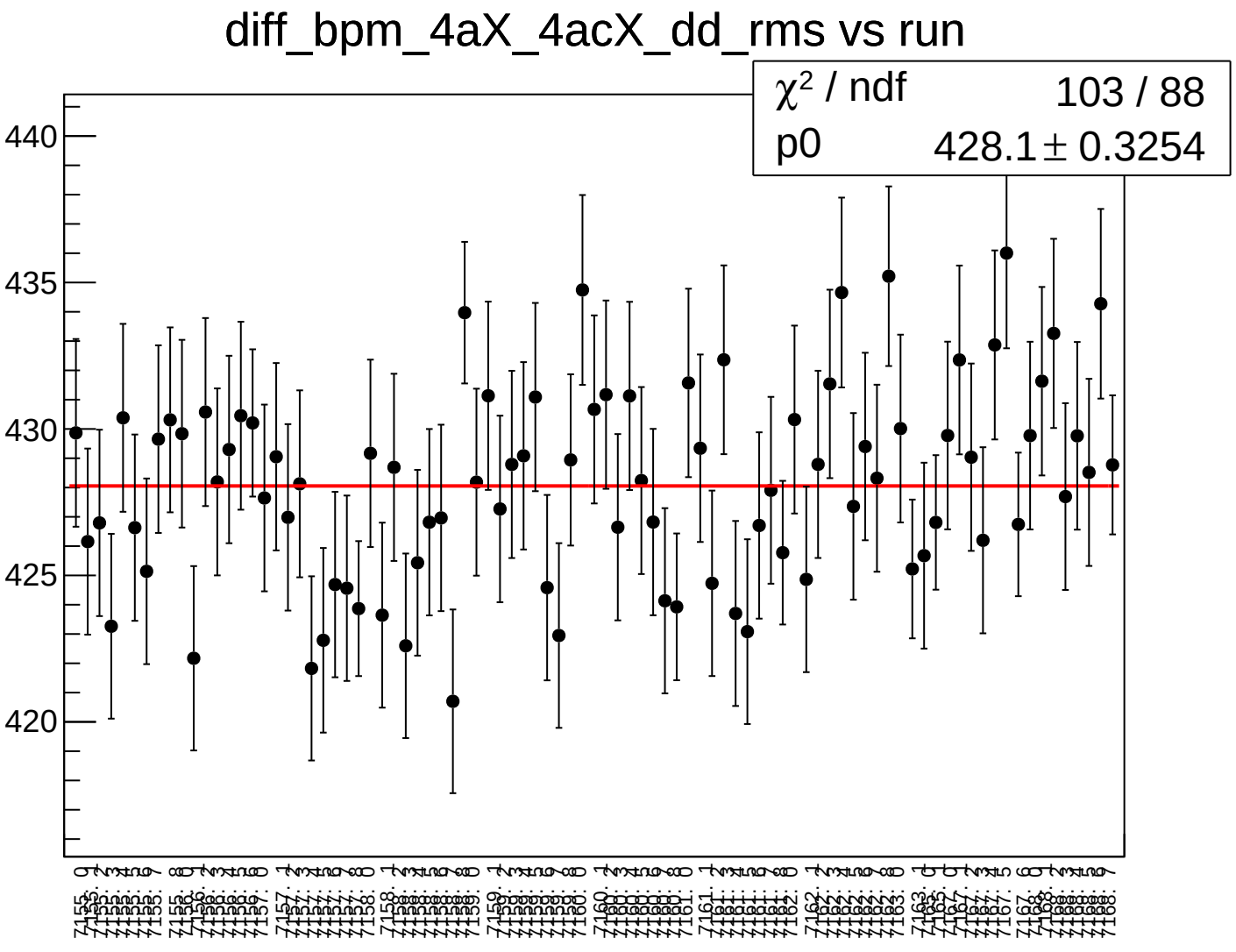

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 64.85 / 88
p0 9.215 ± 9.771
pull
Entries 89
Mean −94.82
Std Dev 0

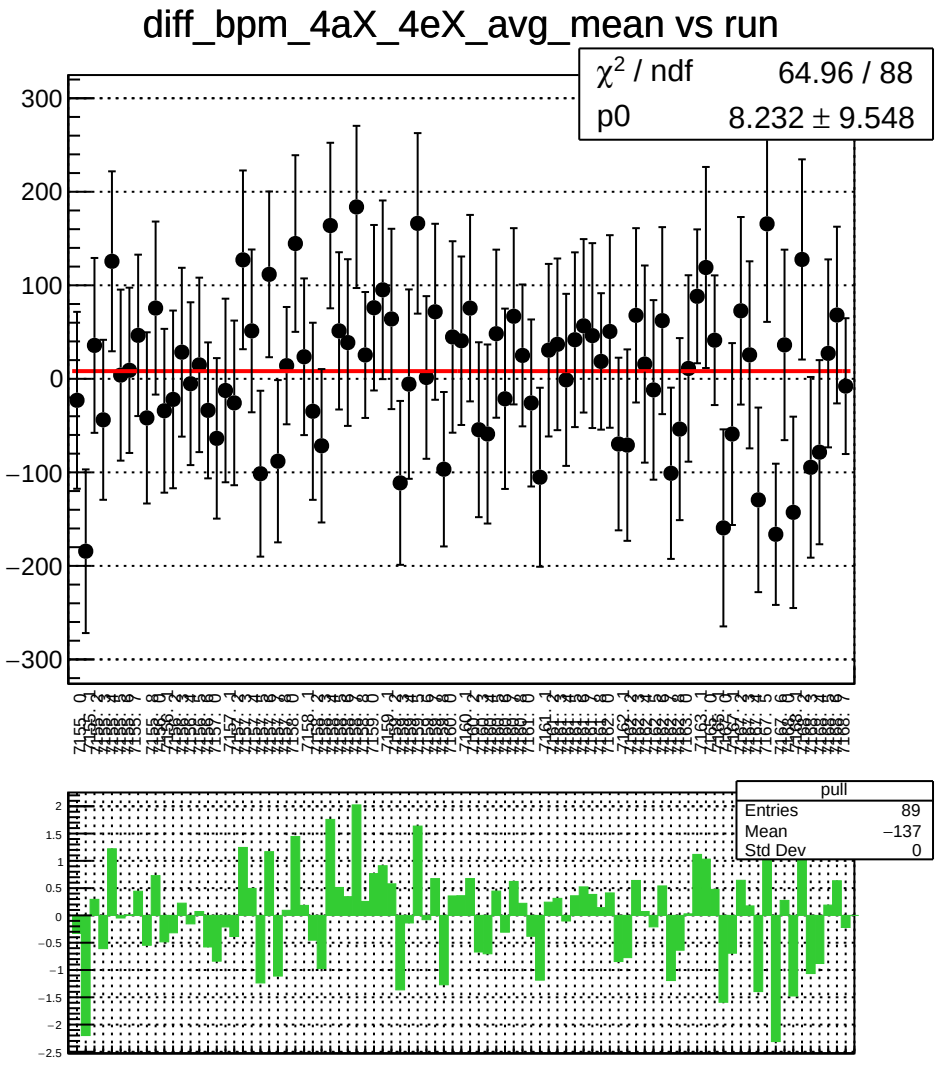

pull1D
Entries 89
Mean 0.008304
Std Dev 0.8536

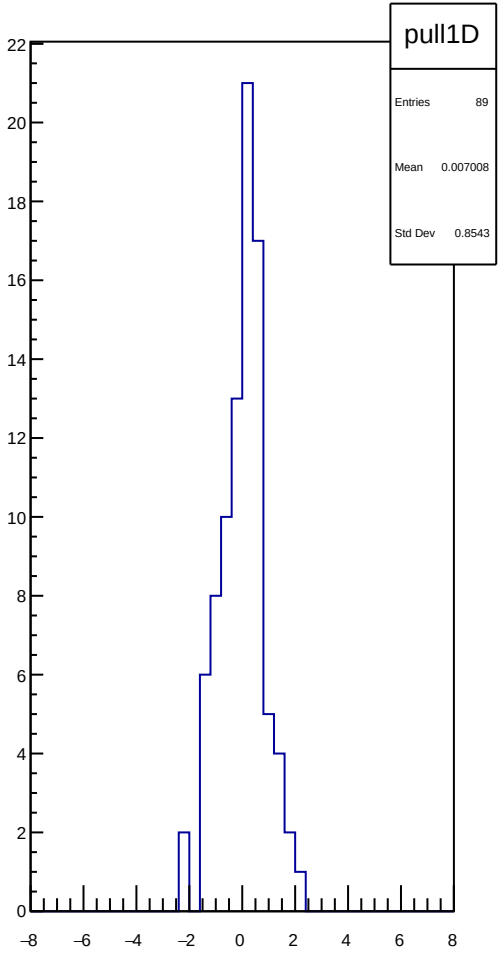

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 6048 / 88
p0 9072 ± 6.909
10500
10000
9500
9000
8500
8000

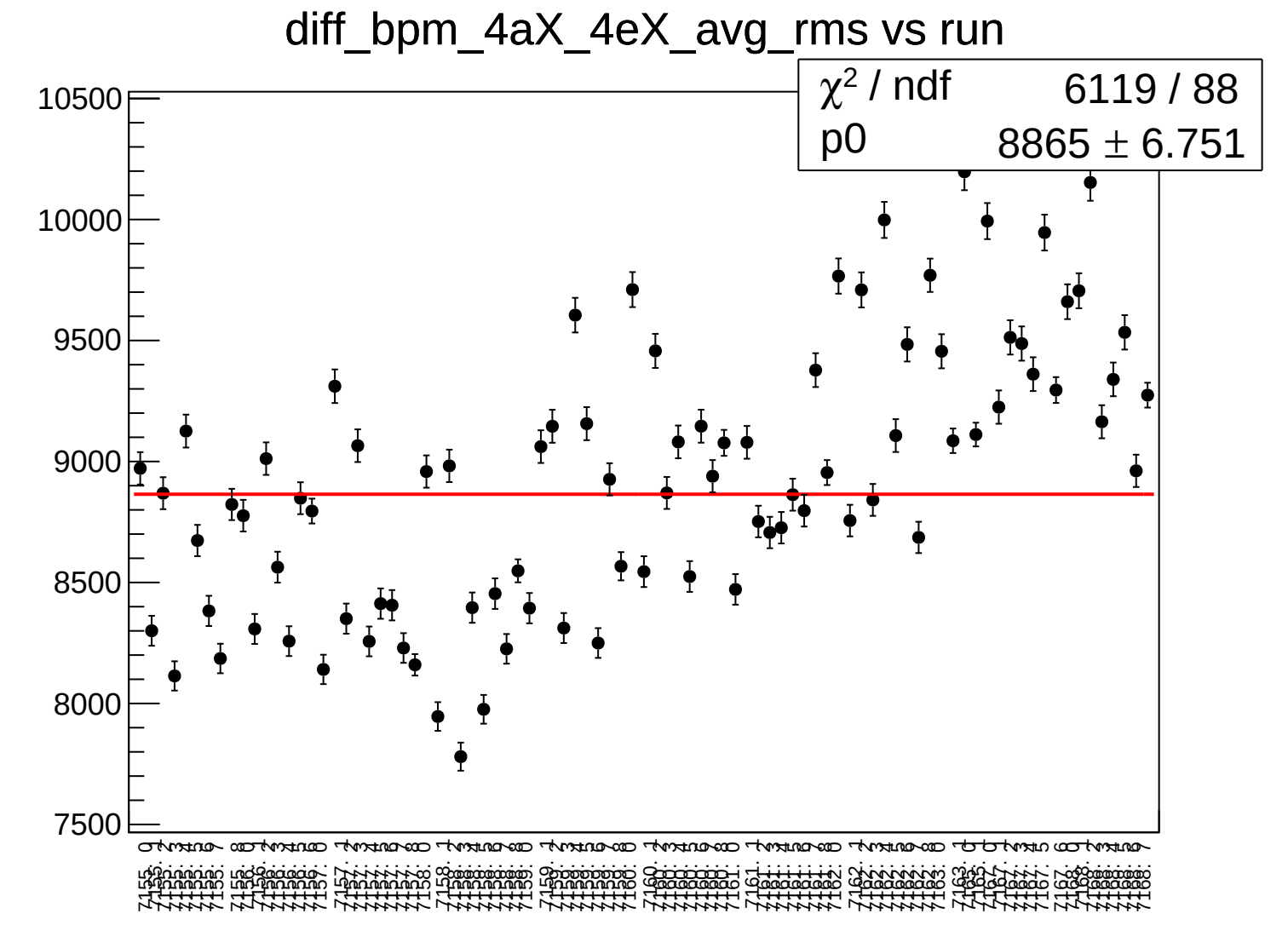

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 76.87 / 88
p0 −0.4336 ± 0.4602
pull
Entries 89
Mean −743.9
Std Dev 0

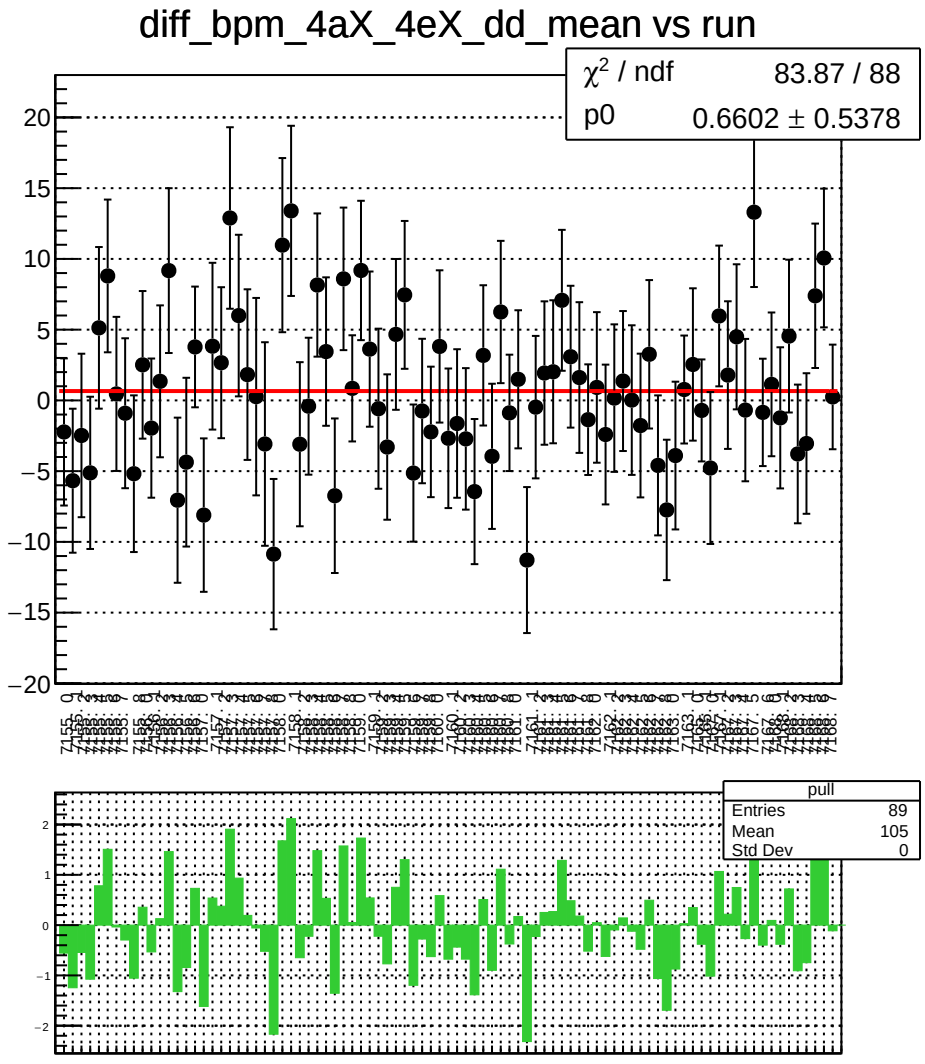

pull1D
Entries 89
Mean 0.001004
Std Dev 0.9294

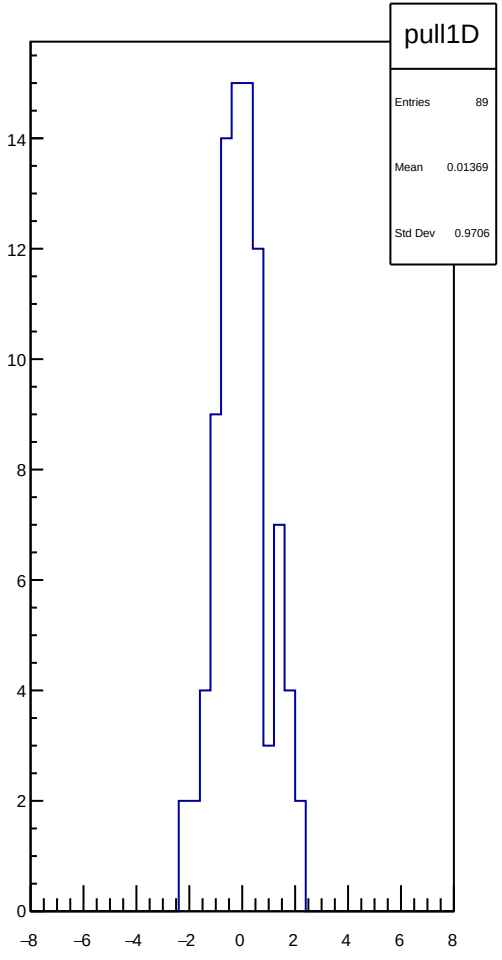

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 103 / 88
p0 428.1 ± 0.3254
440
435
430
425
420

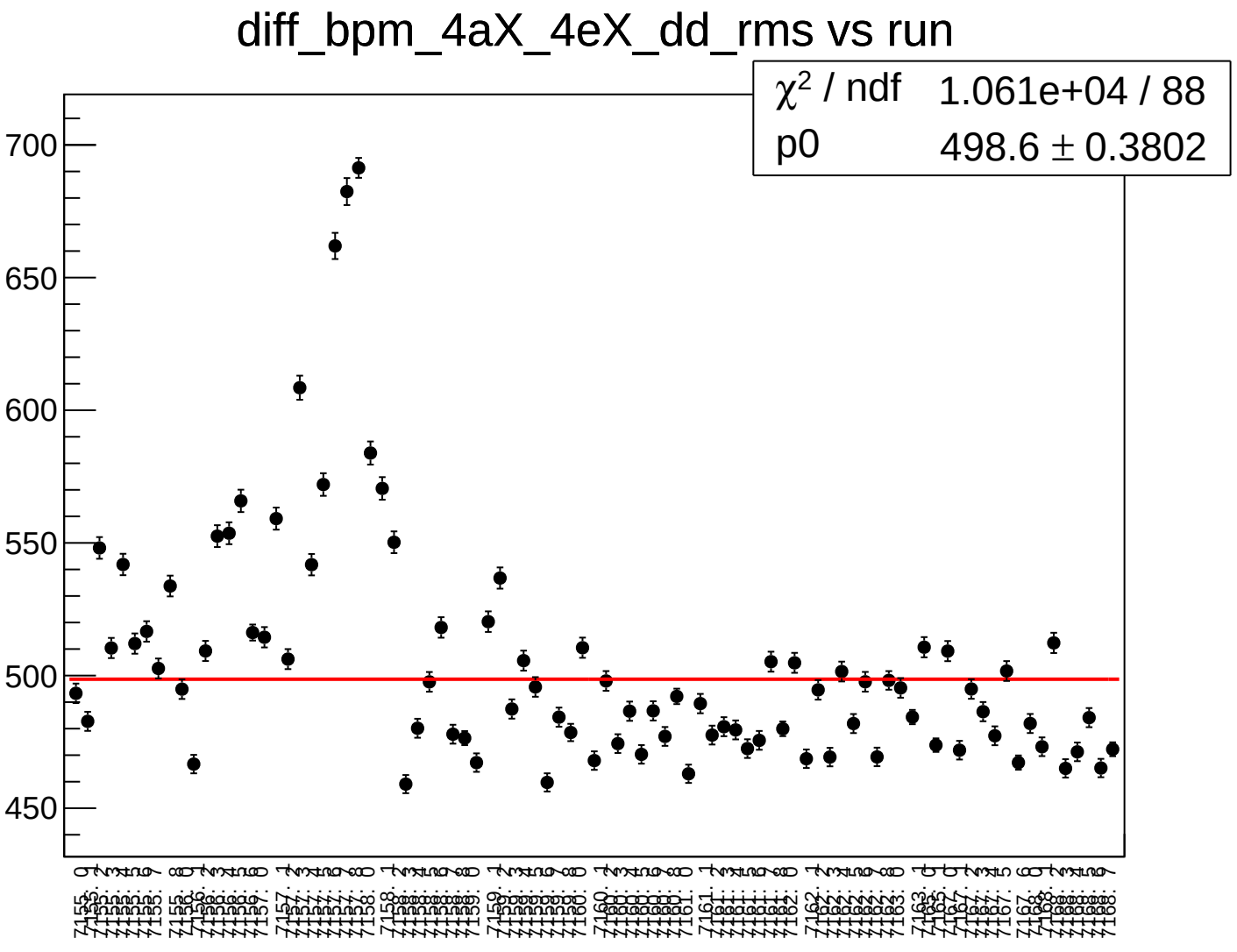

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 64.96 / 88
p0 8.232 ± 9.548
pull
Entries 89
Mean −137
Std Dev 0

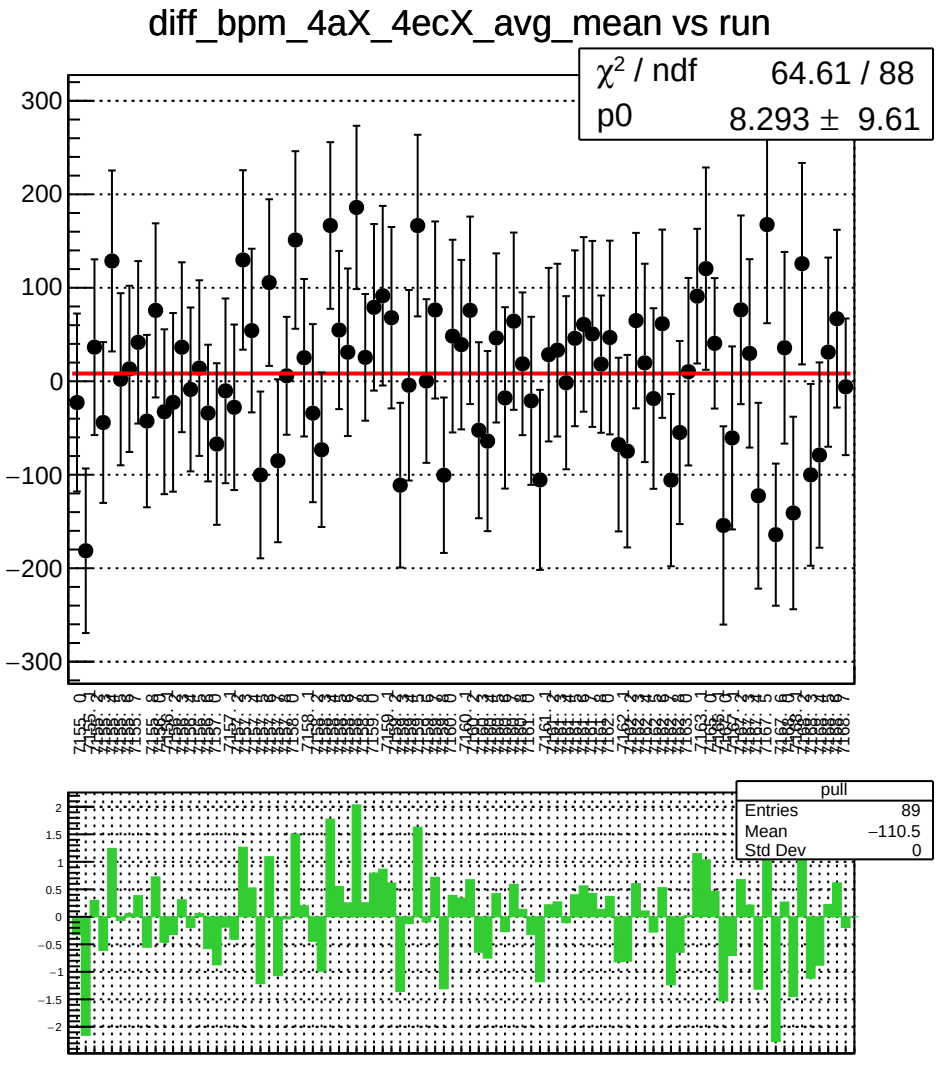

pull1D
Entries 89
Mean 0.007008
Std Dev 0.8543

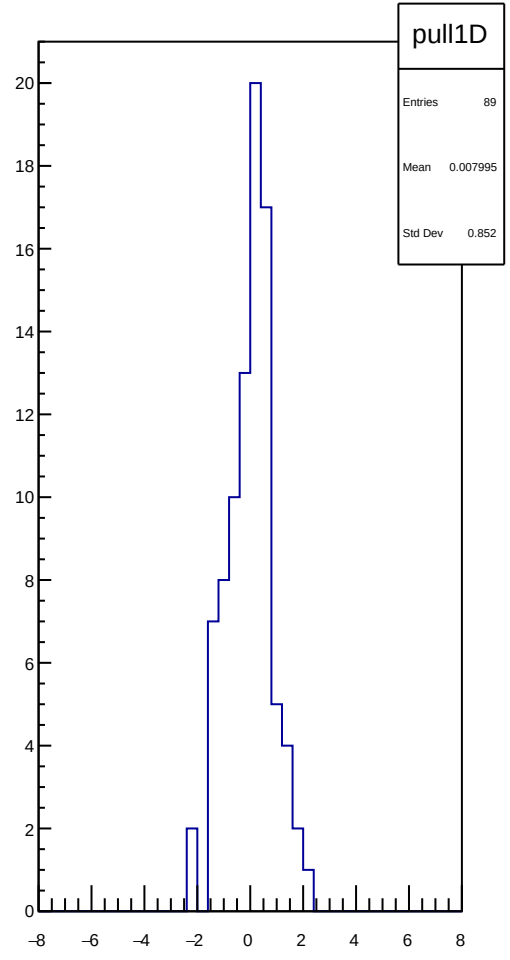

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 6119 / 88
p0 8865 ± 6.751
10500
10000
9500
9000
8500
8000
7500

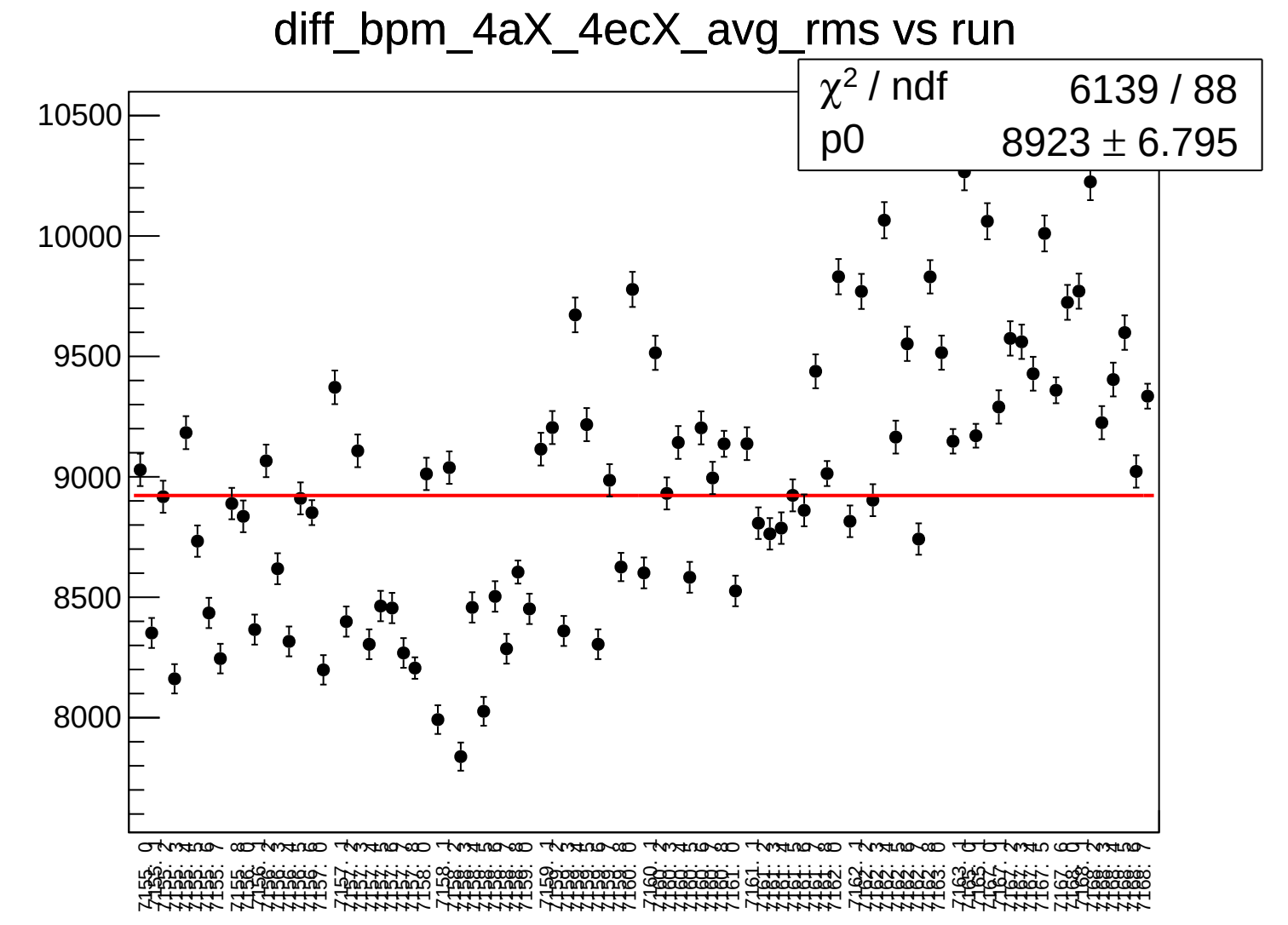

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 83.87 / 88
p0 0.6602 ± 0.5378
pull
Entries 89
Mean 105
Std Dev 0

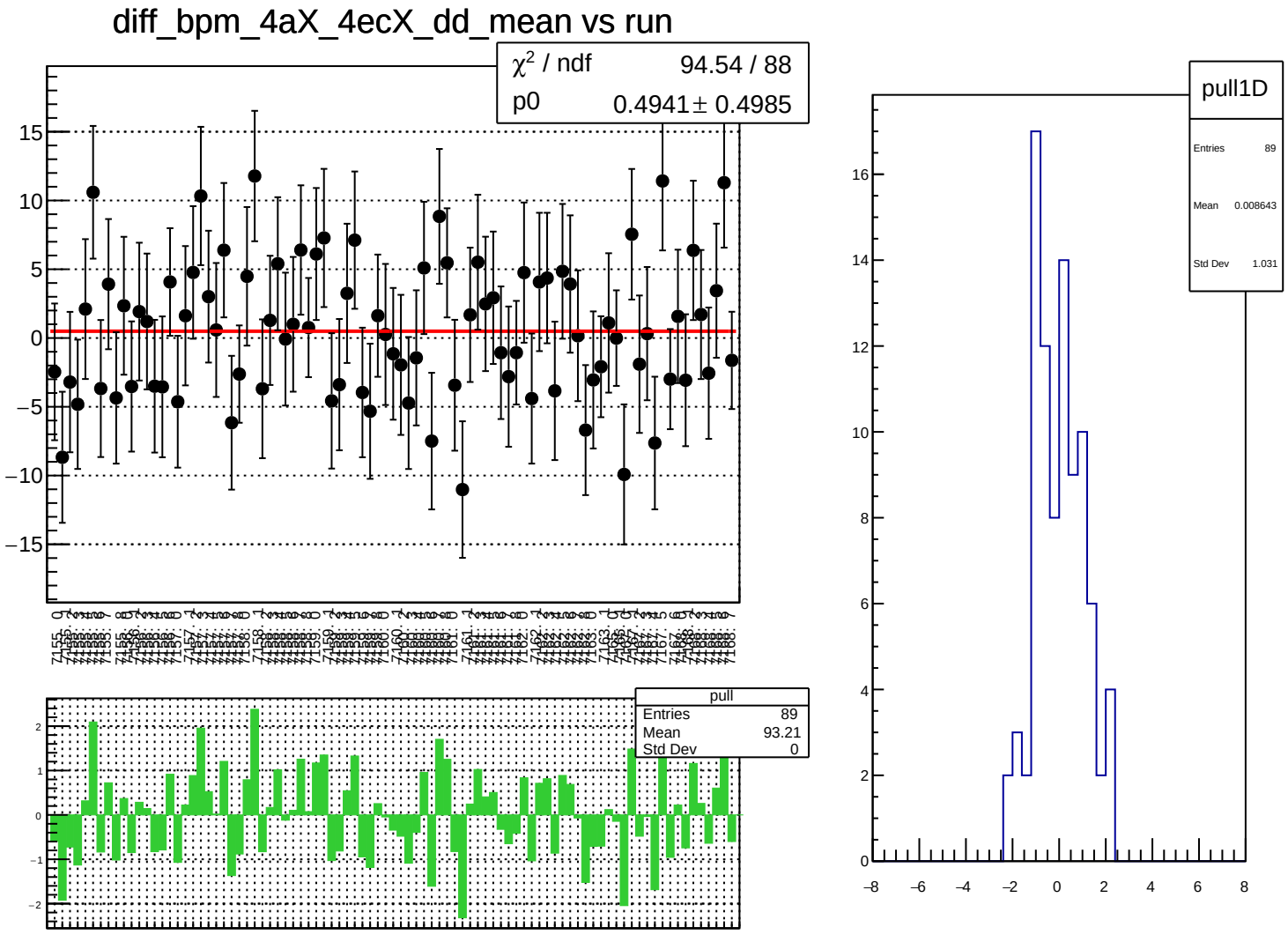

pull1D
Entries 89
Mean 0.01369
Std Dev 0.9706

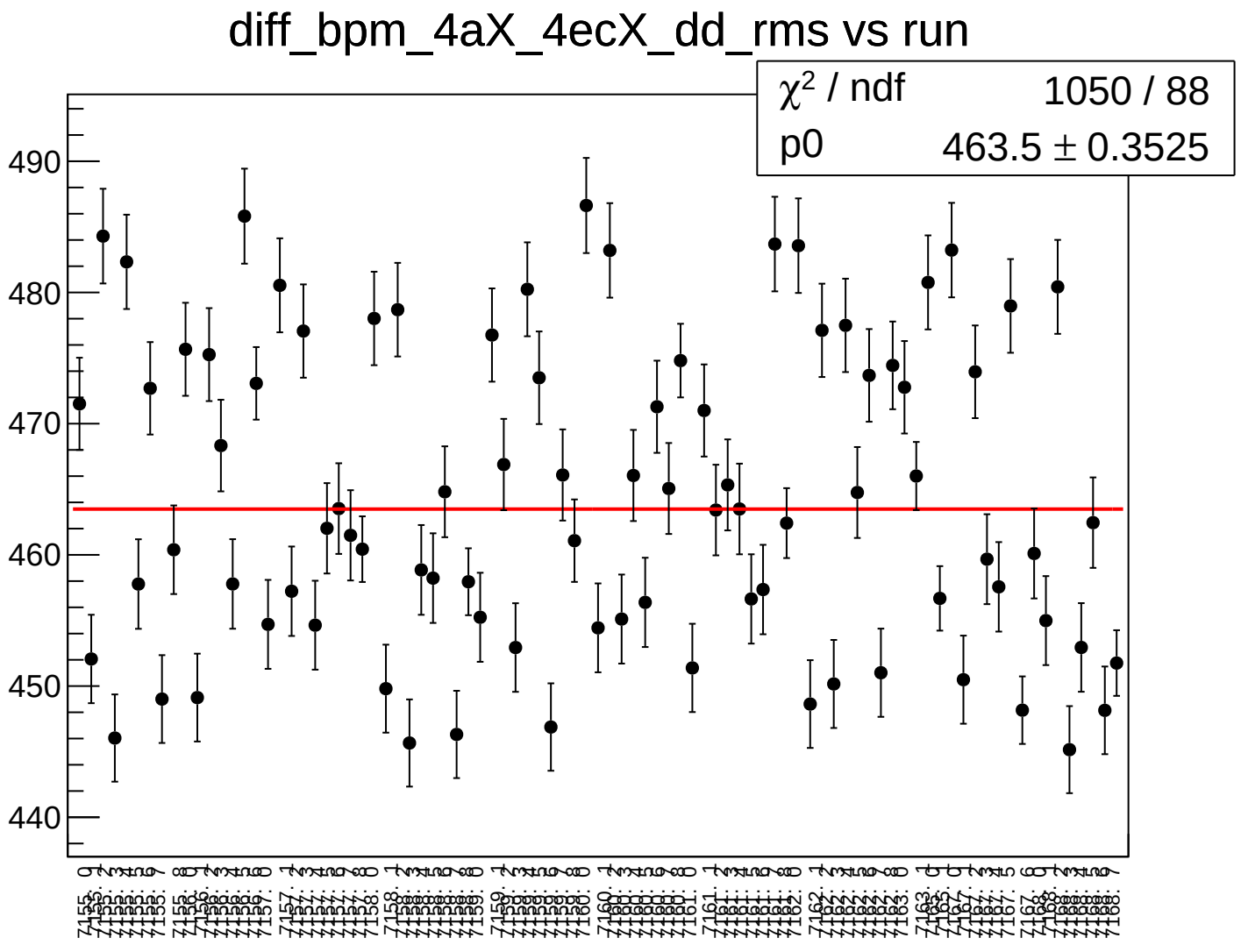

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 1.061e+04 / 88
p0 498.6 ± 0.3802
700
650
600
550
500
450

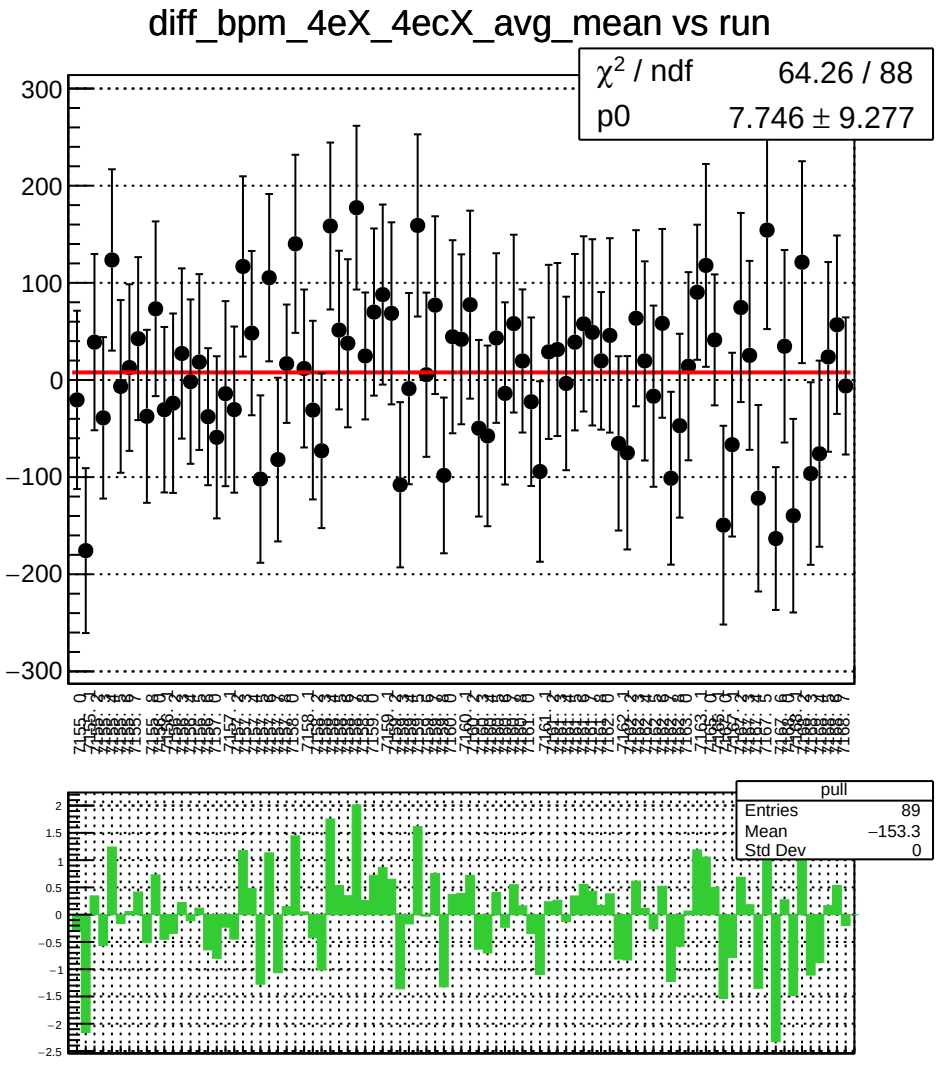

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 64.61 / 88
p0 8.293 ± 9.61
pull
Entries 89
Mean −110.5
Std Dev 0

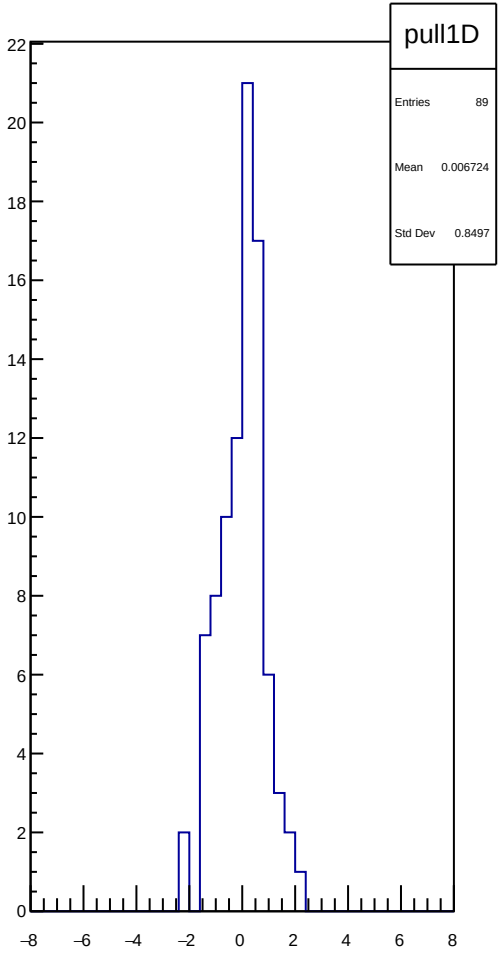

pull1D
Entries 89
Mean 0.007995
Std Dev 0.852

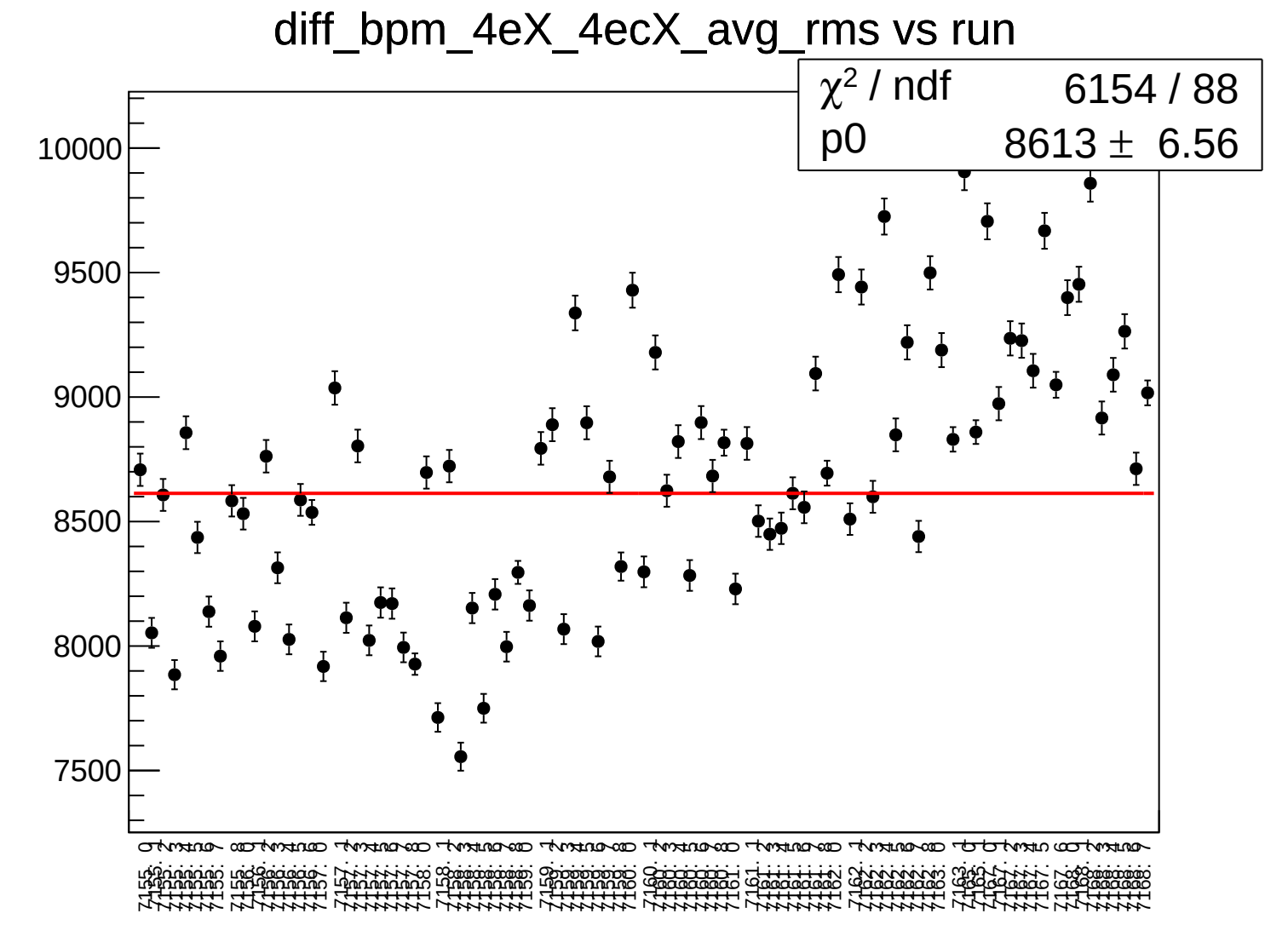

diff_bpm_4aX_4ecX_avg_rms vs run
χ^2 / ndf 6139 / 88
p0 8923 ± 6.795
10500
10000
9500
9000
8500
8000

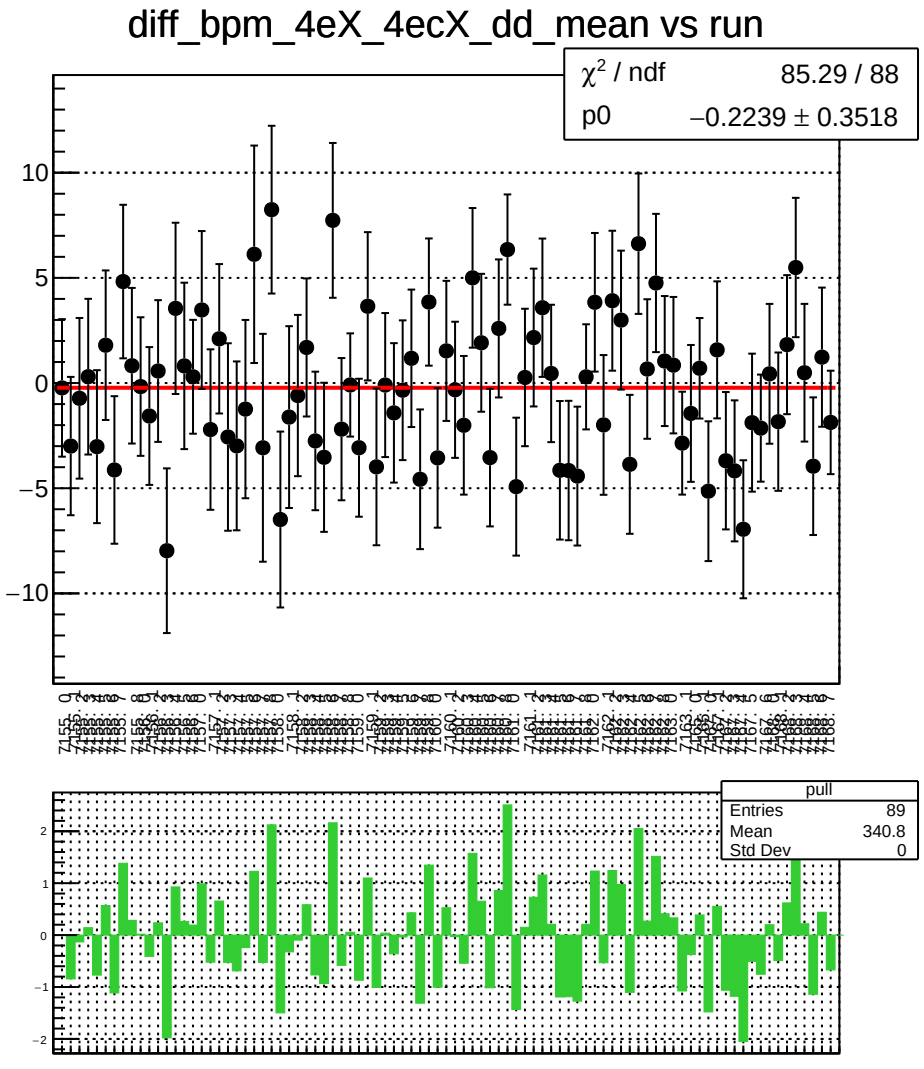

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 94.54 / 88
p0 0.4941 ± 0.4985
pull
Entries 89
Mean 93.21
Std Dev 0
pull1D
Entries 89
Mean 0.008643
Std Dev 1.031

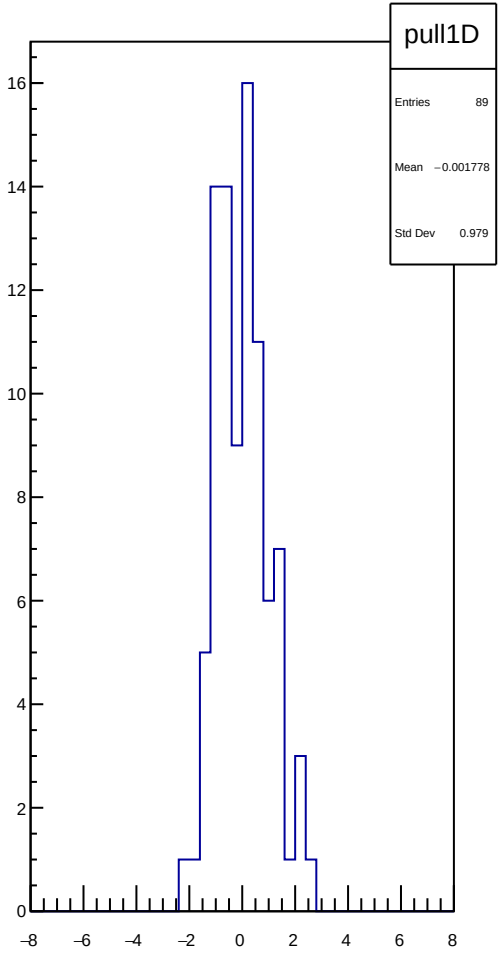

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 1050 / 88
p0 463.5 ± 0.3525
490
480
470
460
450
440

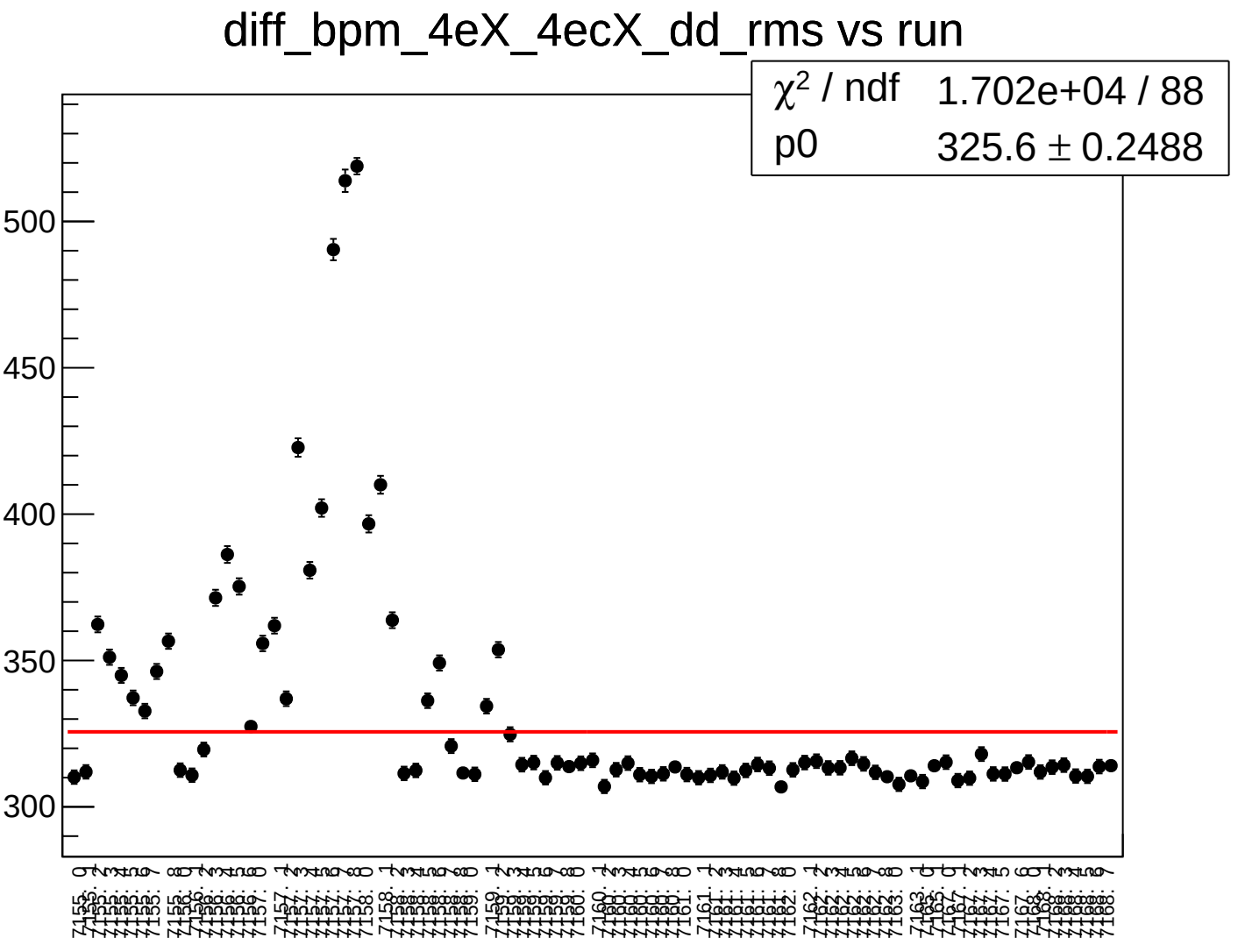

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 64.26 / 88
p0 7.746 ± 9.277
pull
Entries 89
Mean −153.3
Std Dev 0

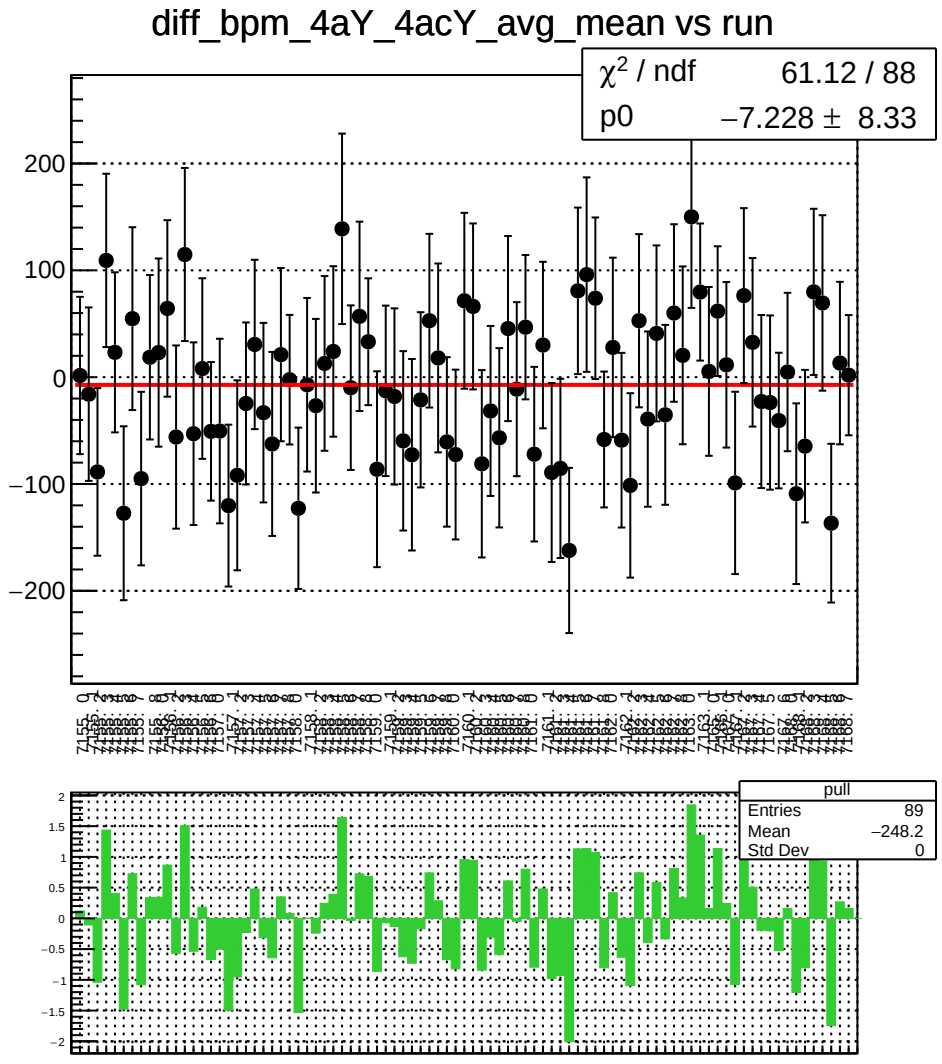

pull1D
Entries 89
Mean 0.006724
Std Dev 0.8497

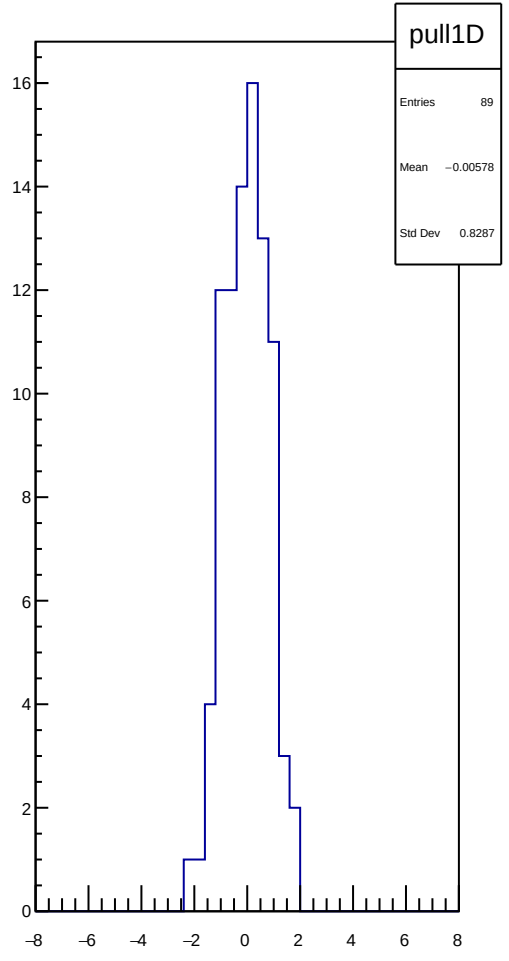

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 6154 / 88
p0 8613 ± 6.56
10000
9500
9000
8500
8000
7500

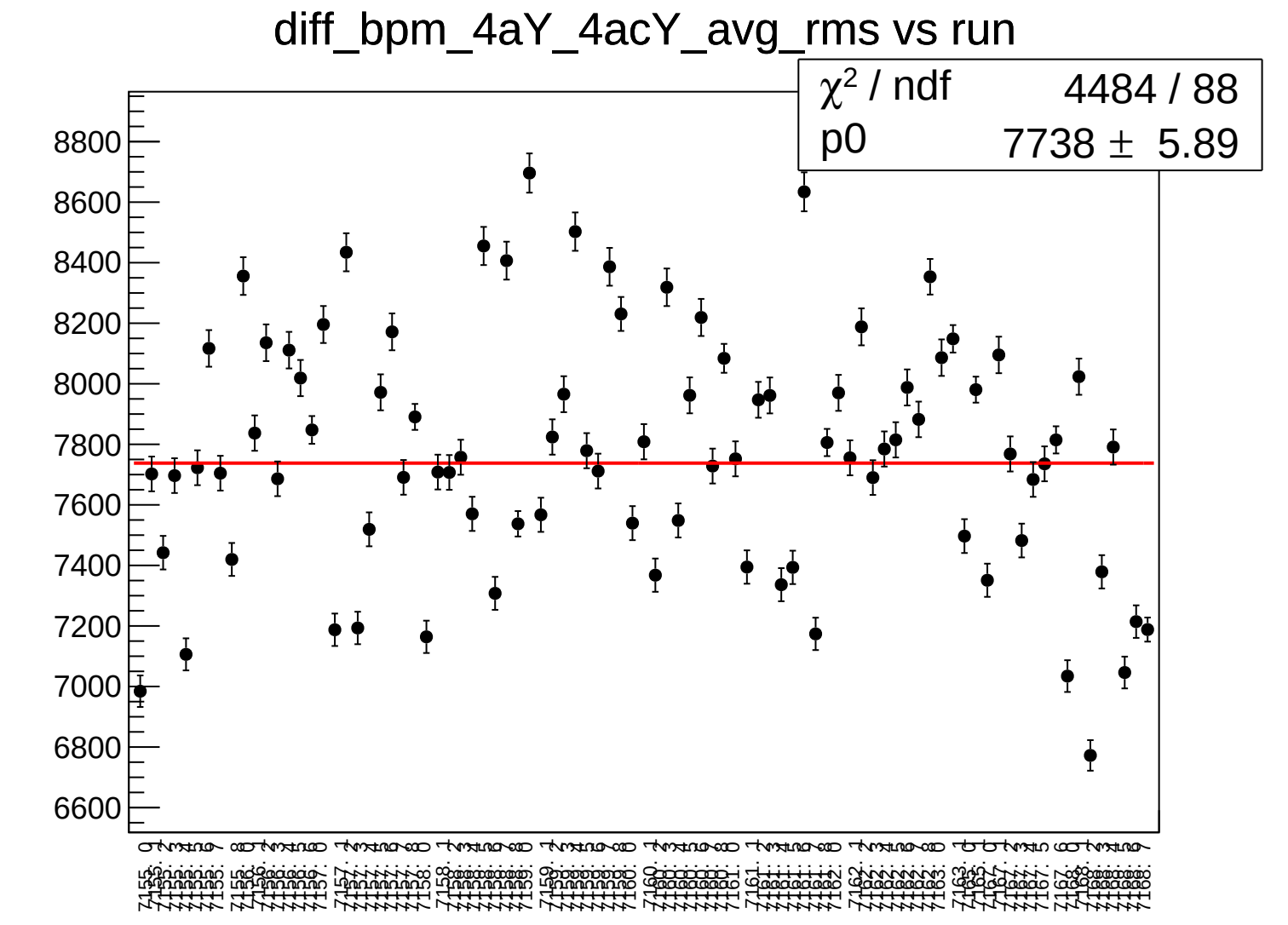

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 85.29 / 88
p0 −0.2239 ± 0.3518
pull
Entries 89
Mean 340.8
Std Dev 0

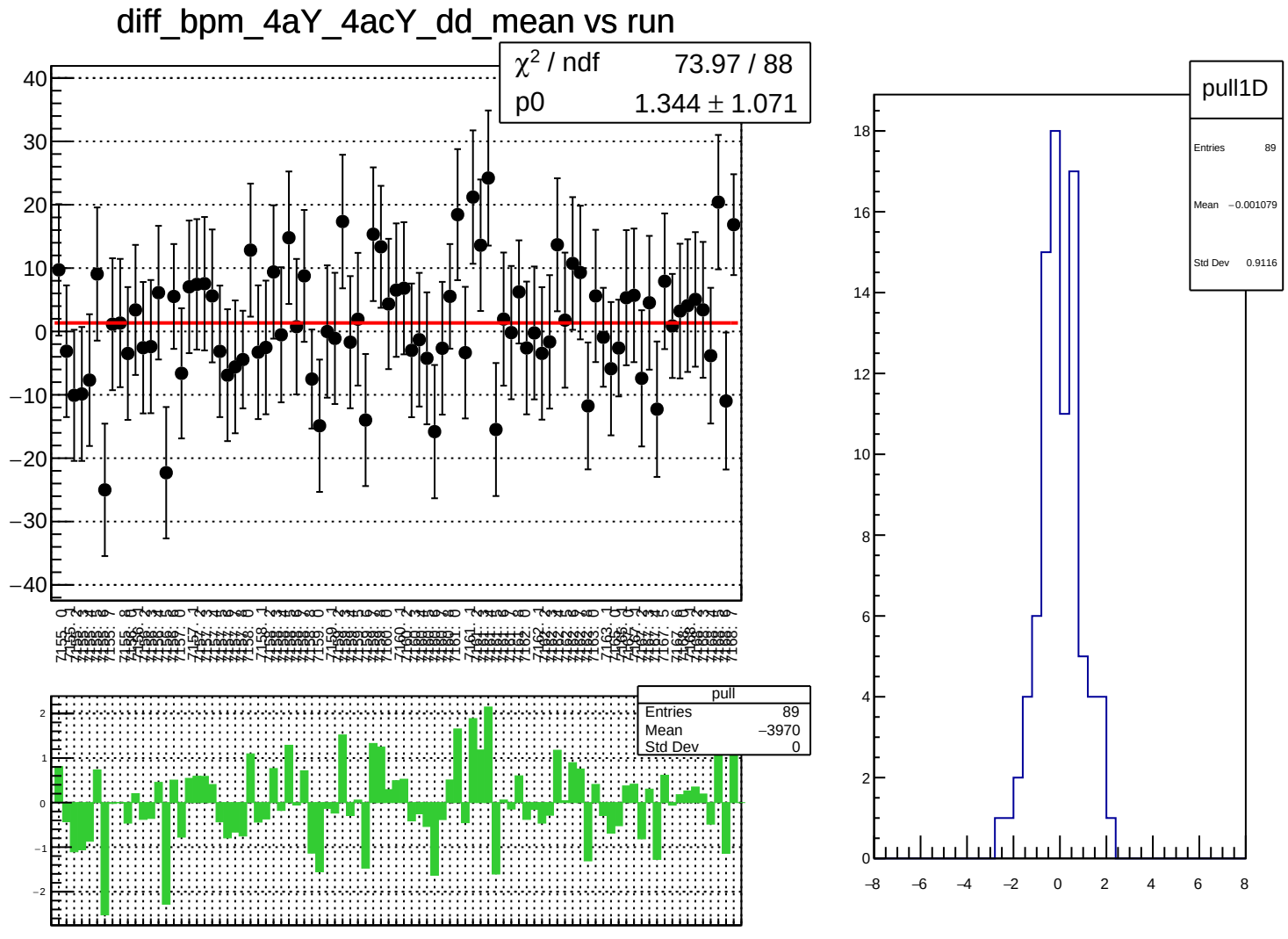

pull1D
Entries 89
Mean −0.001778
Std Dev 0.979

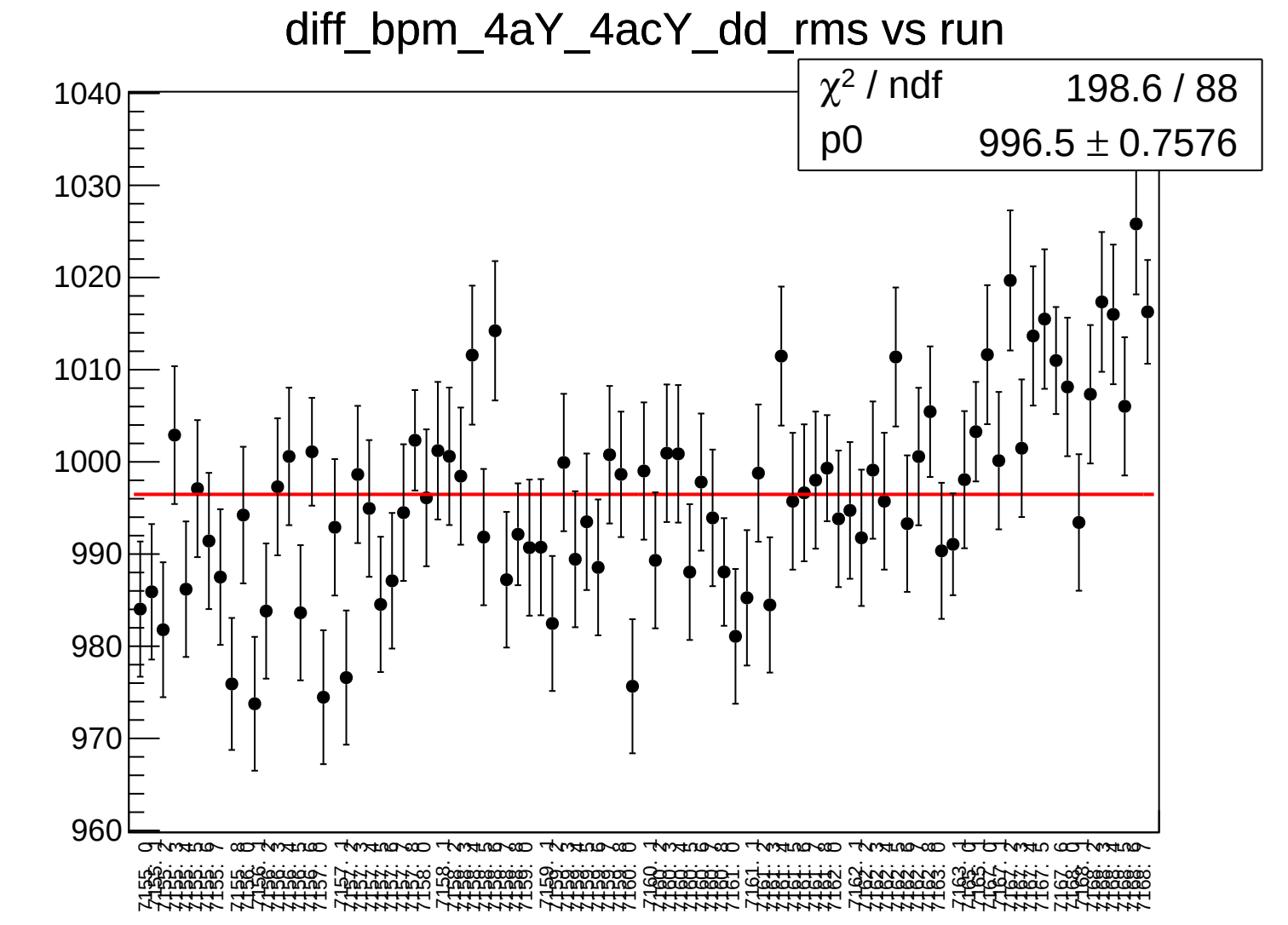

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1.702e+04 / 88
p0 325.6 ± 0.2488
500
450
400
350
300

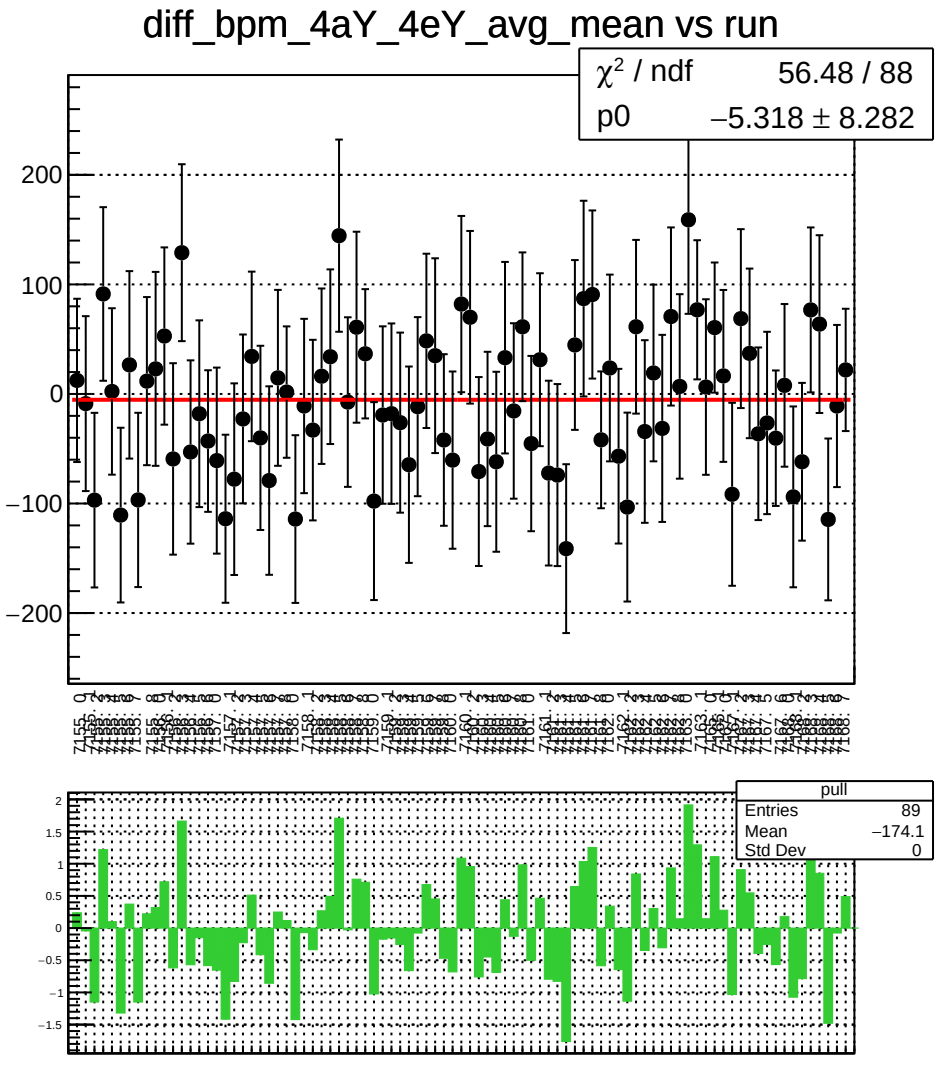

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 61.12 / 88
p0 −7.228 ± 8.33
200
100
0
−100
−200
pull
Entries 89
Mean −248.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

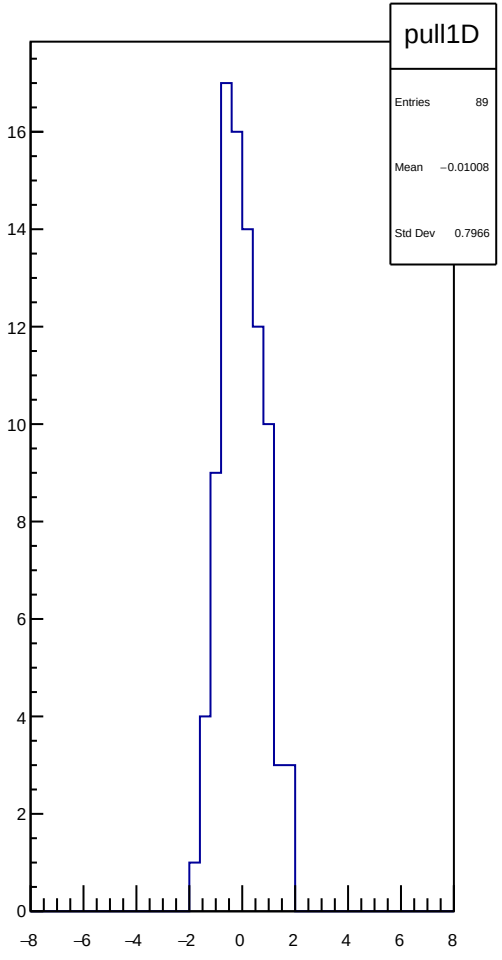

pull1D
Entries 89
Mean −0.00578
Std Dev 0.8287
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

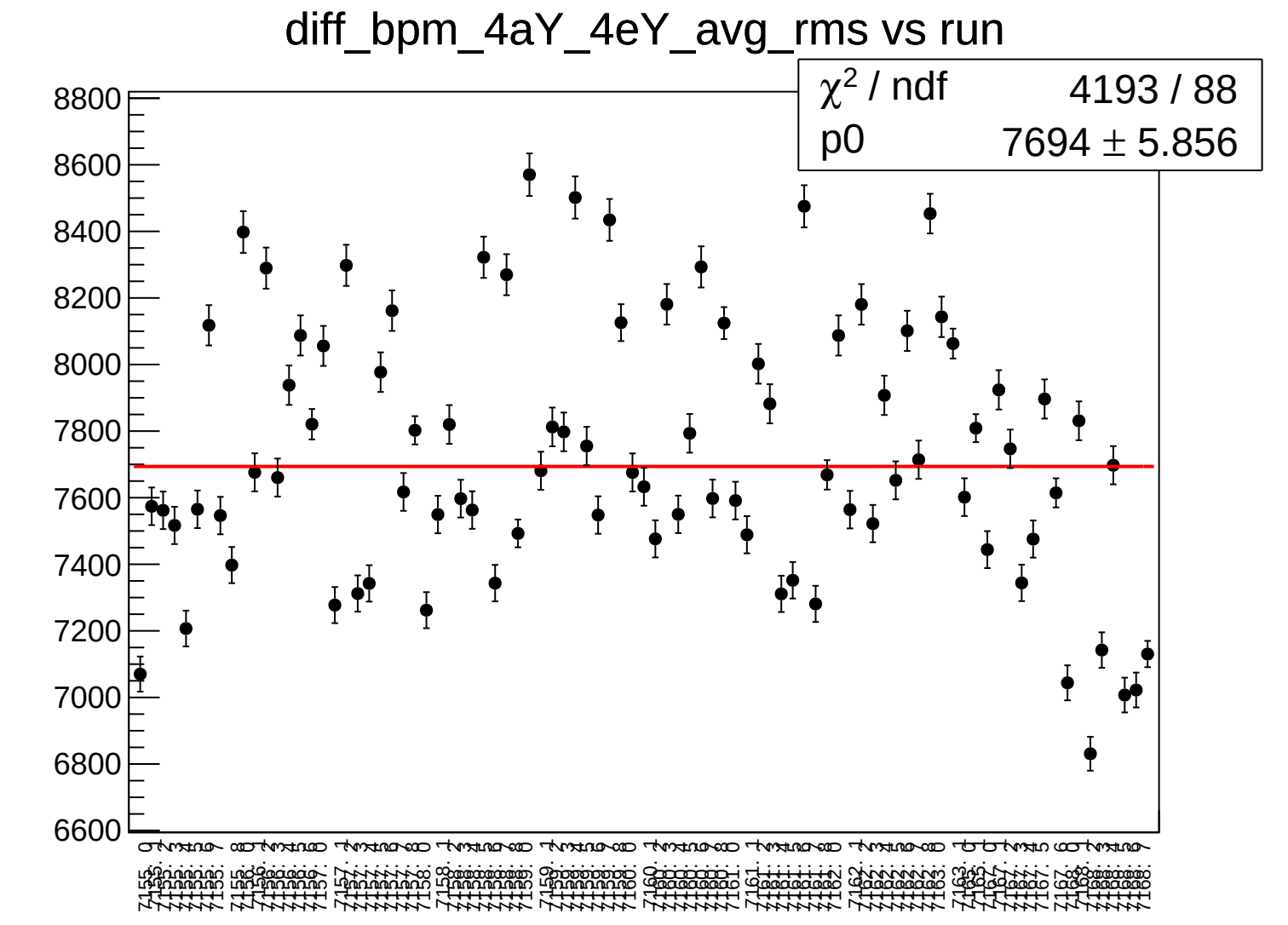

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 4484 / 88
p0 7738 ± 5.89
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

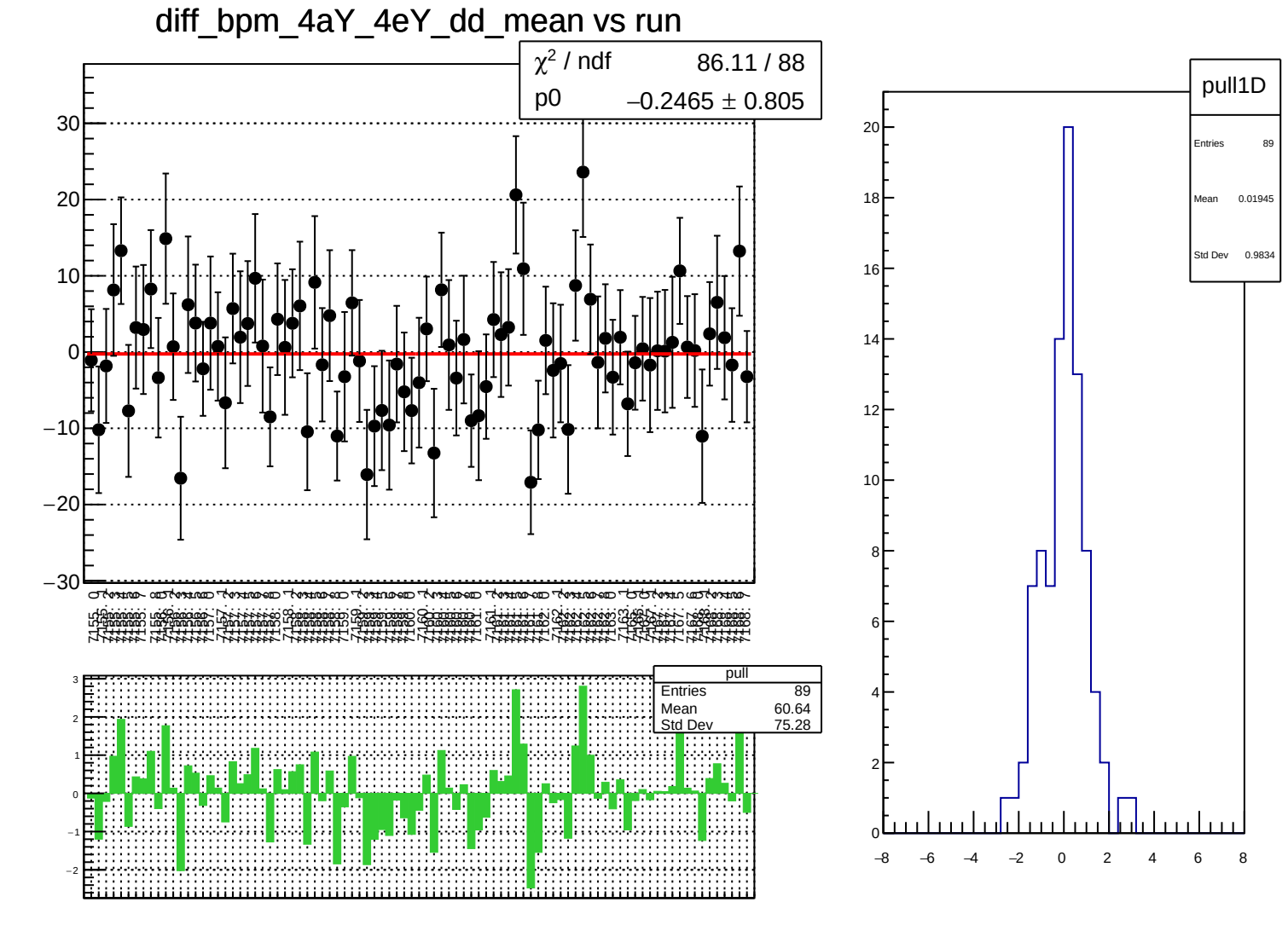

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 73.97 / 88
p0 1.344 ± 1.071
pull
Entries 89
Mean −3970
Std Dev 0
pull1D
Entries 89
Mean −0.001079
Std Dev 0.9116

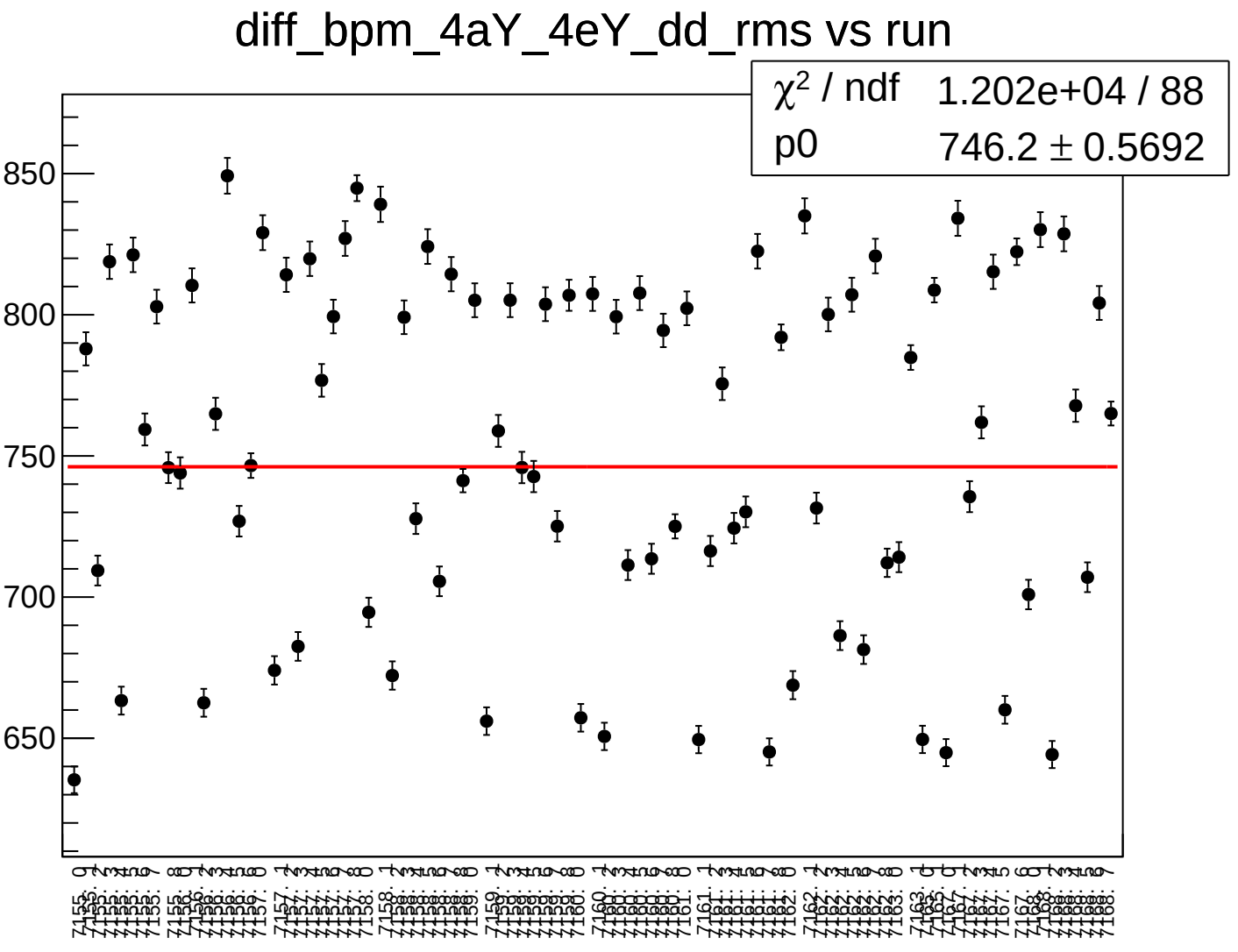

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 198.6 / 88
p0 996.5 ± 0.7576
1040
1030
1020
1010
1000
990
980
970
960

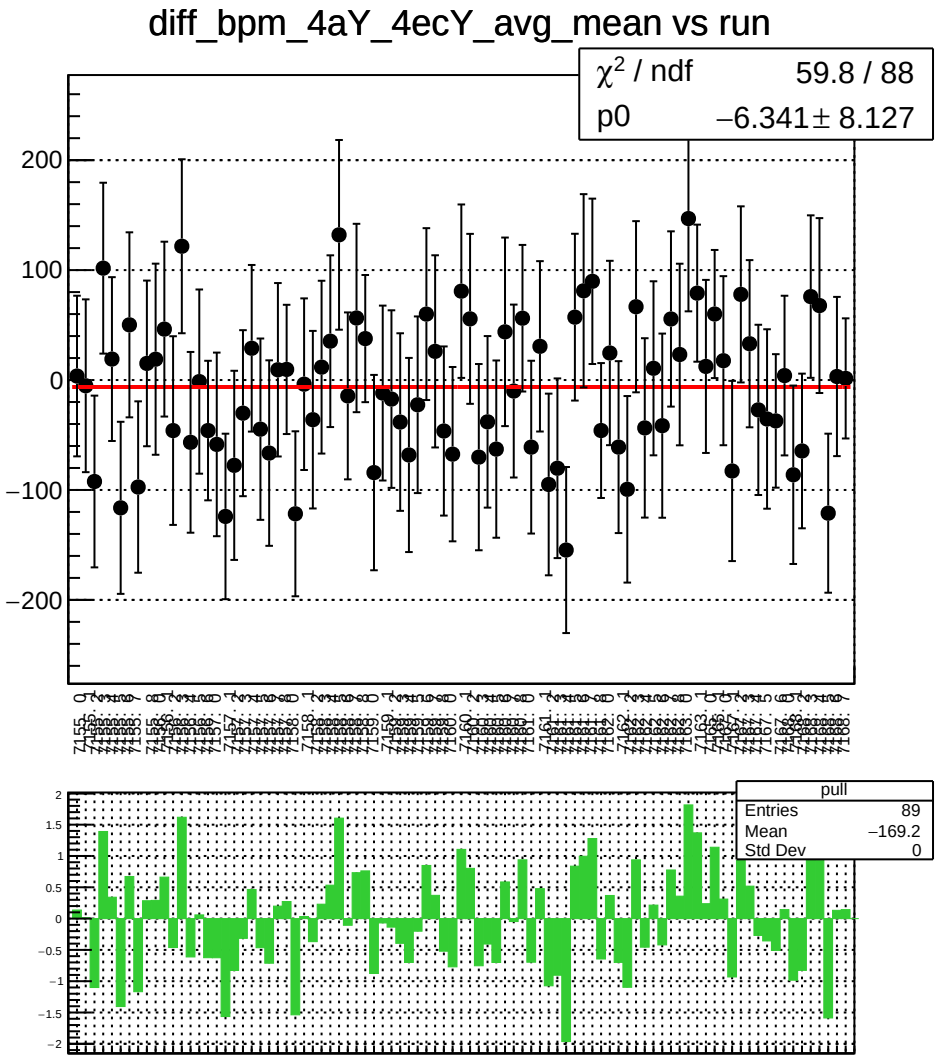

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 56.48 / 88
p0 −5.318 ± 8.282
200
100
0
−100
−200
pull
Entries 89
Mean −174.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

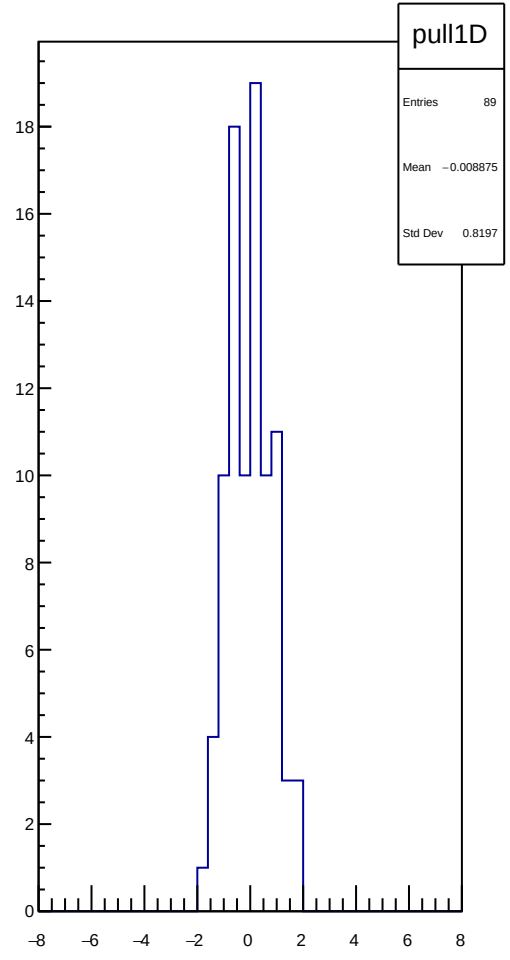

pull1D
Entries 89
Mean −0.01008
Std Dev 0.7966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

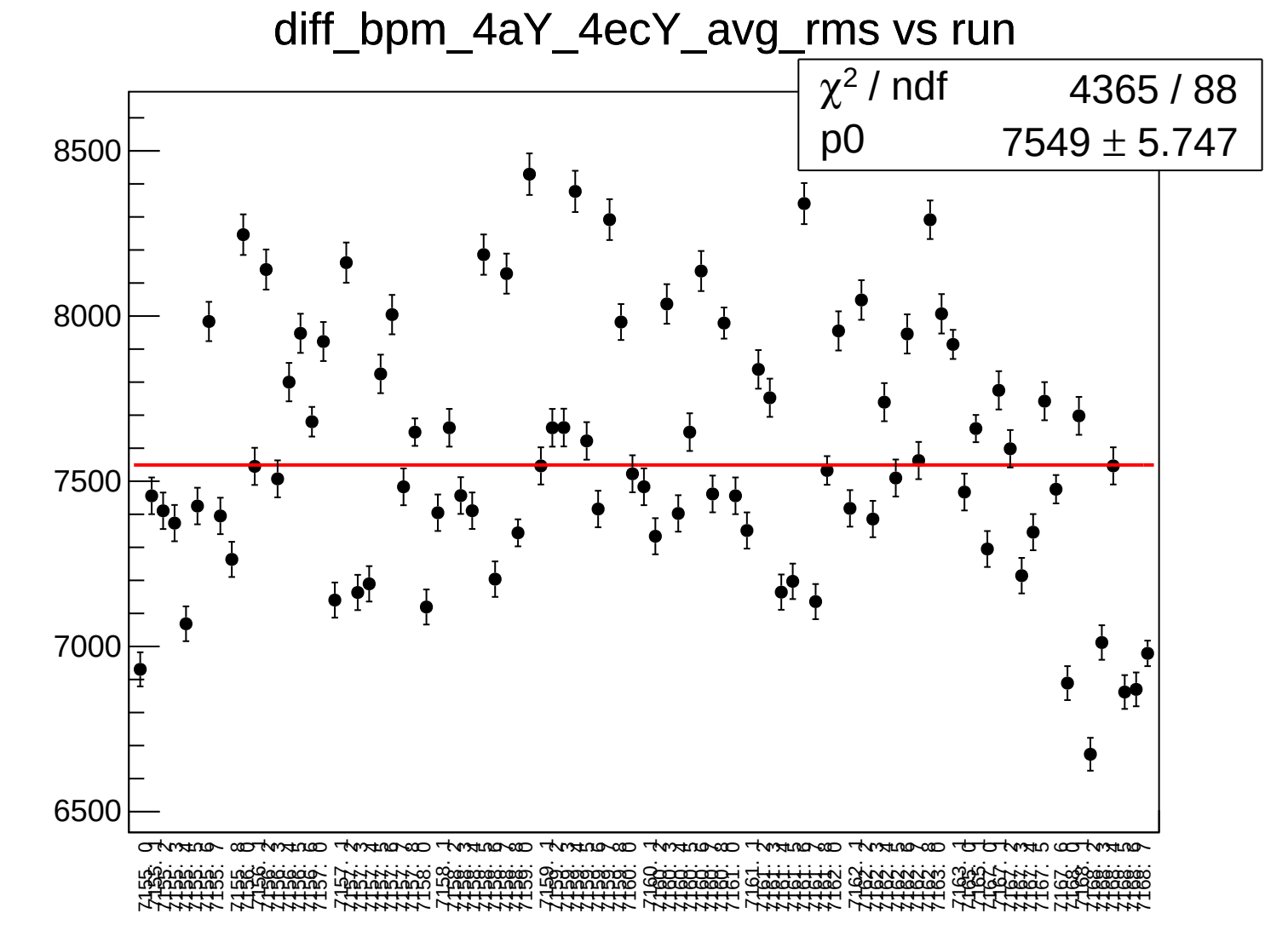

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 4193 / 88
p0 7694 ± 5.856
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

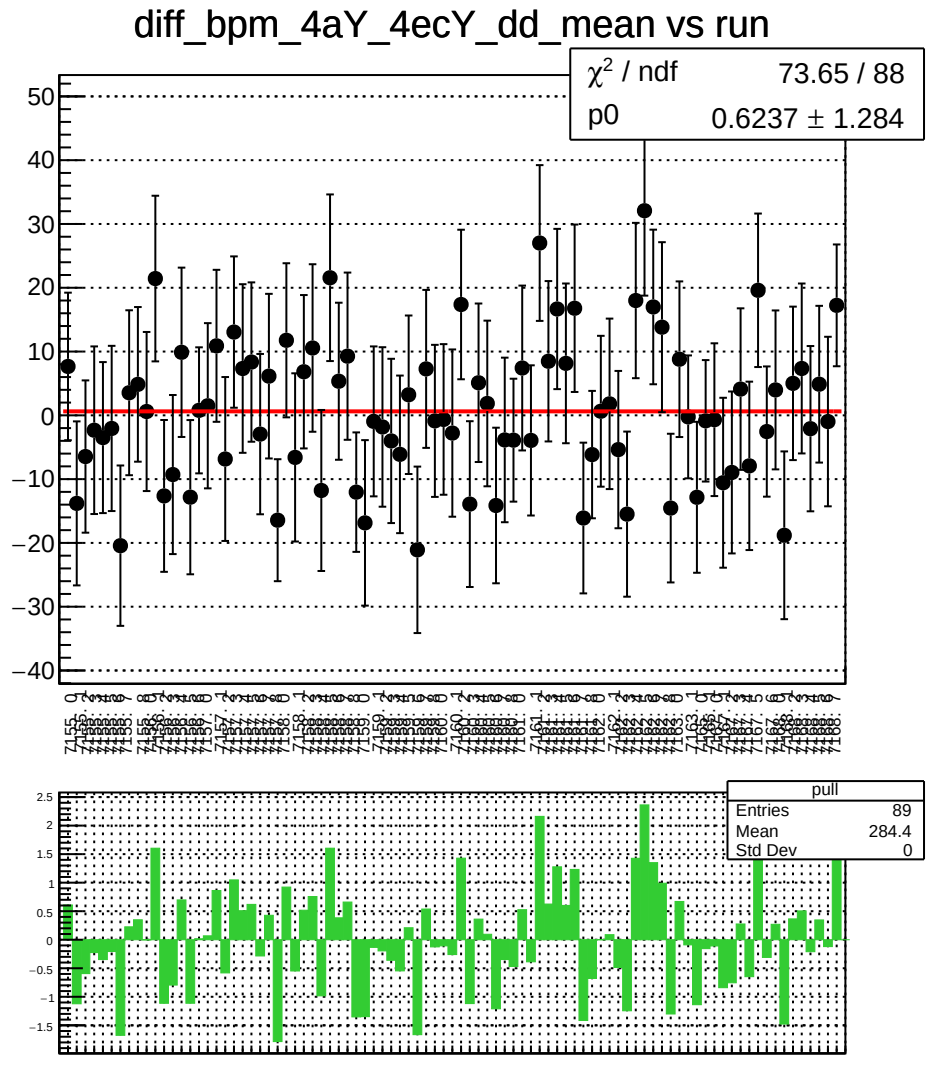

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 86.11 / 88
p0 −0.2465 ± 0.805
pull
Entries 89
Mean 60.64
Std Dev 75.28
pull1D
Entries 89
Mean 0.01945
Std Dev 0.9834

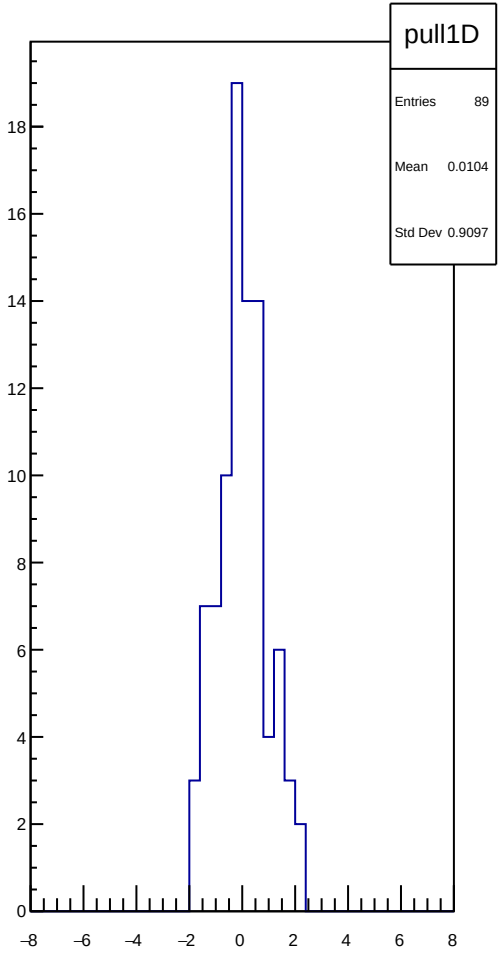

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1.202e+04 / 88
p0 746.2 ± 0.5692
850
800
750
700
650

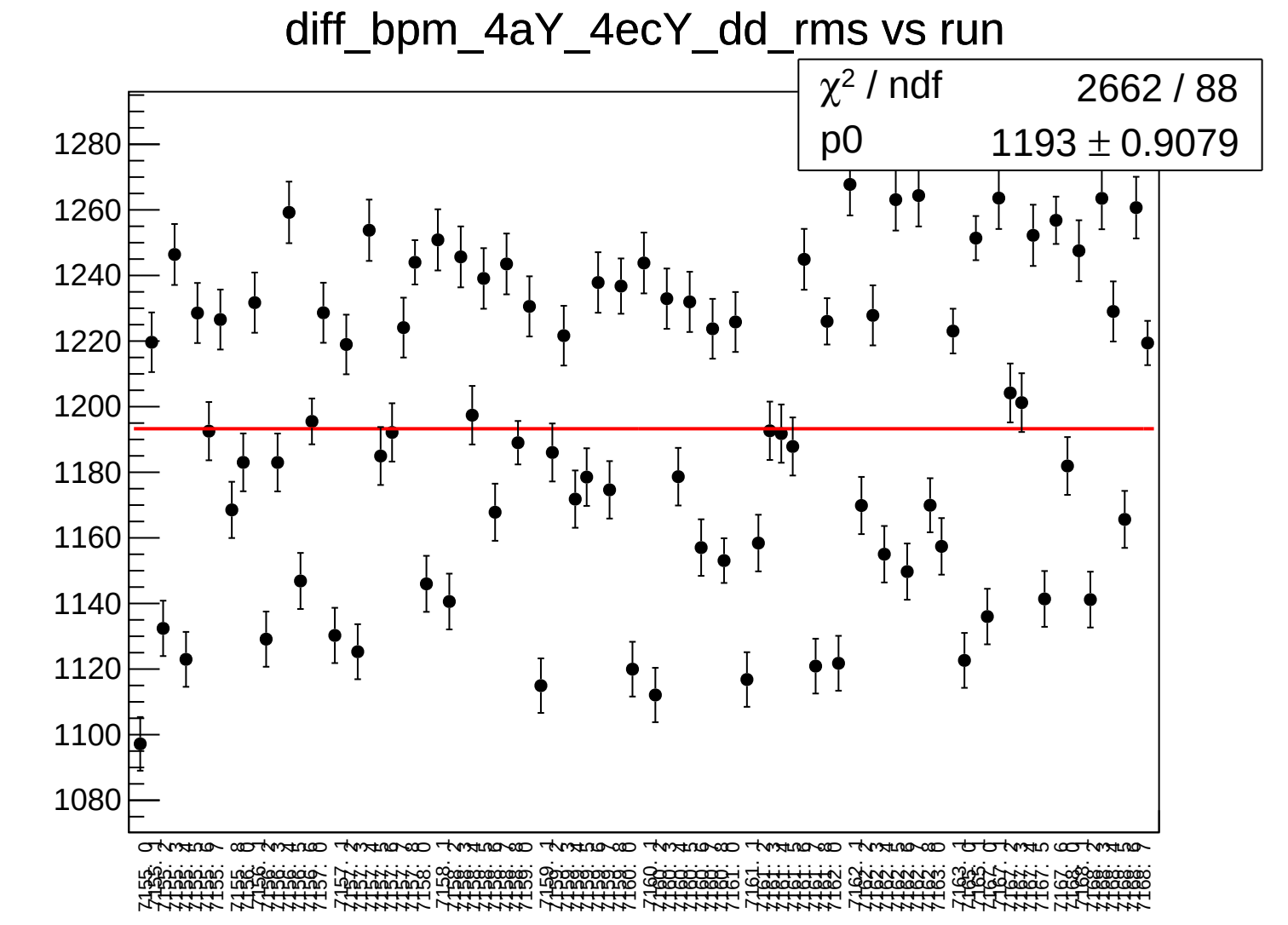

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 59.8 / 88
p0 −6.341 ± 8.127
200
100
0
−100
−200
pull
Entries 89
Mean −169.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

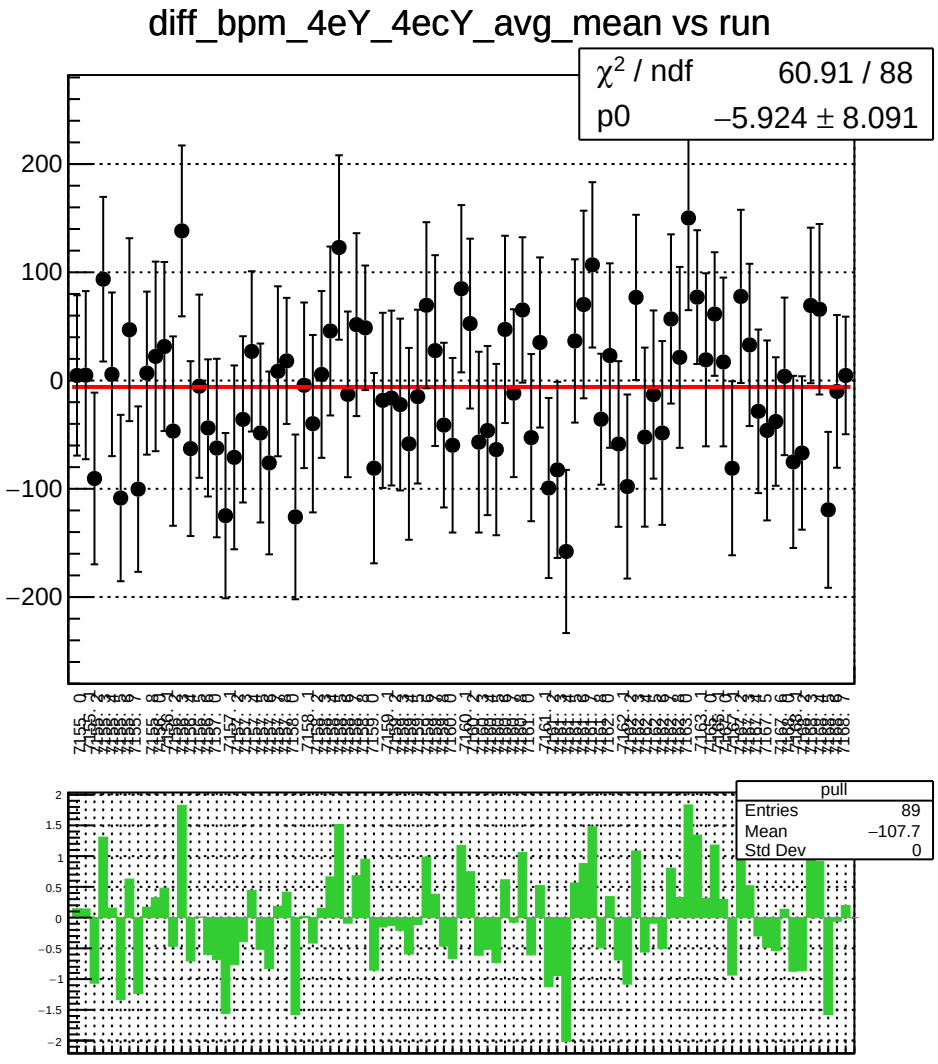

pull1D
Entries 89
Mean −0.008875
Std Dev 0.8197
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

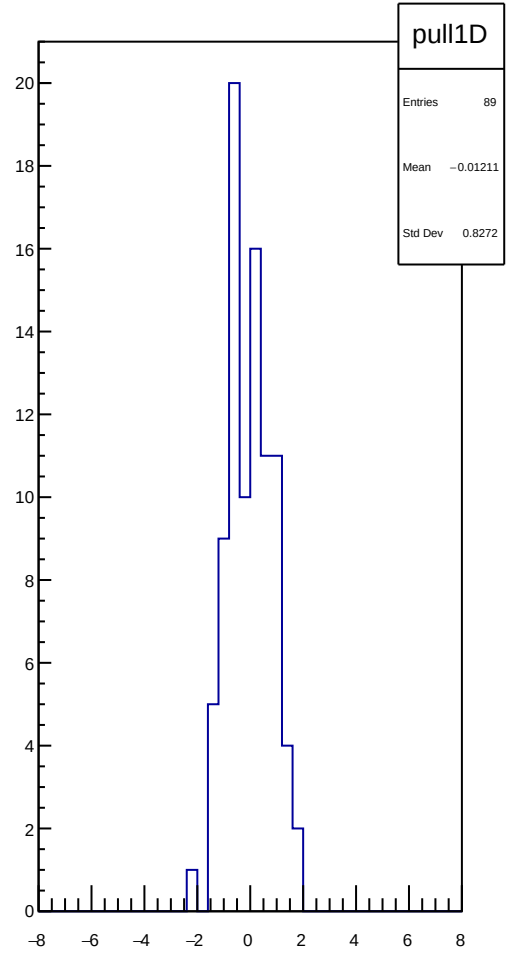

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 4365 / 88
p0 7549 ± 5.747
8500
8000
7500
7000
6500

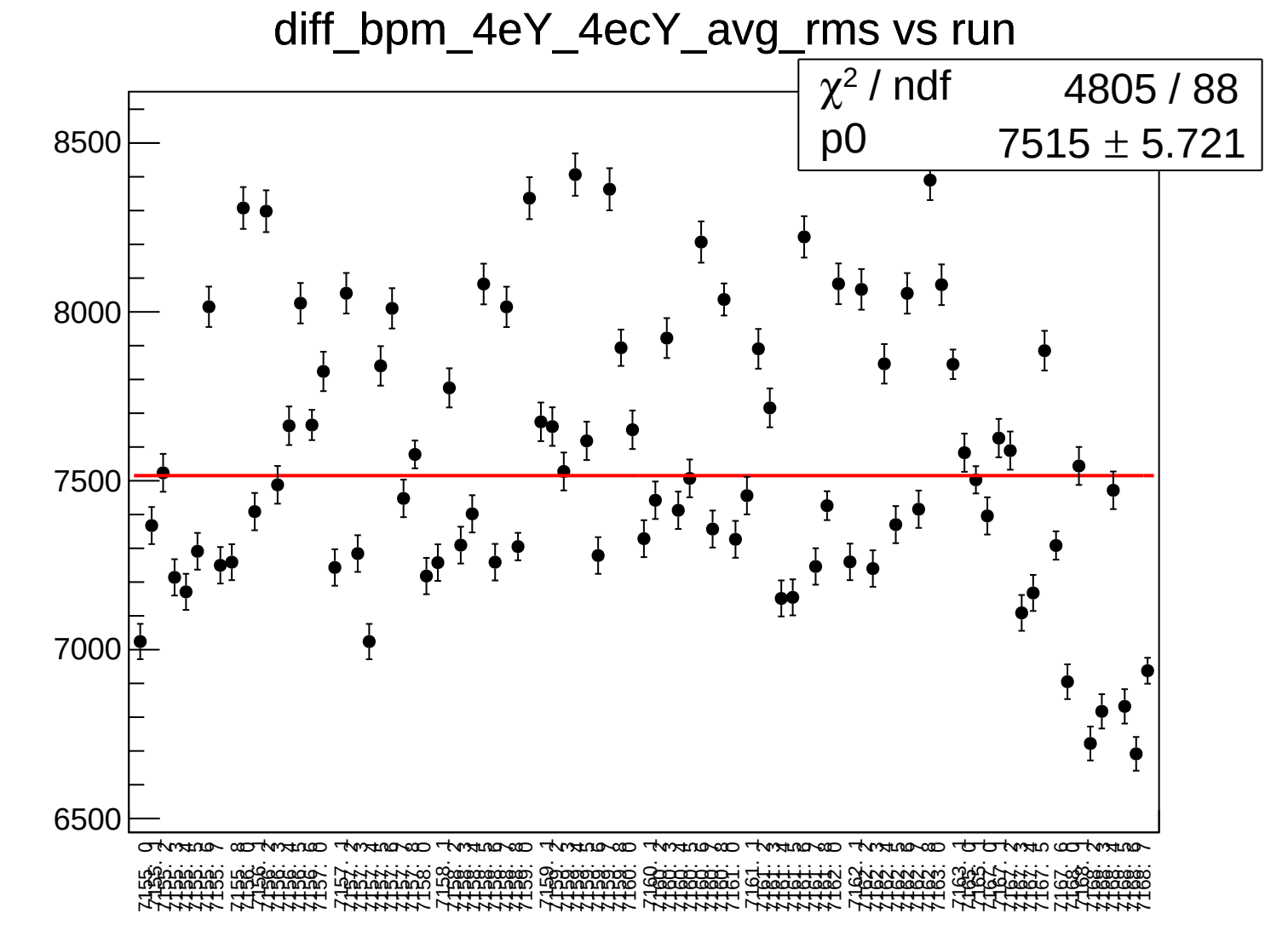

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 73.65 / 88
p0 0.6237 ± 1.284
pull
Entries 89
Mean 284.4
Std Dev 0

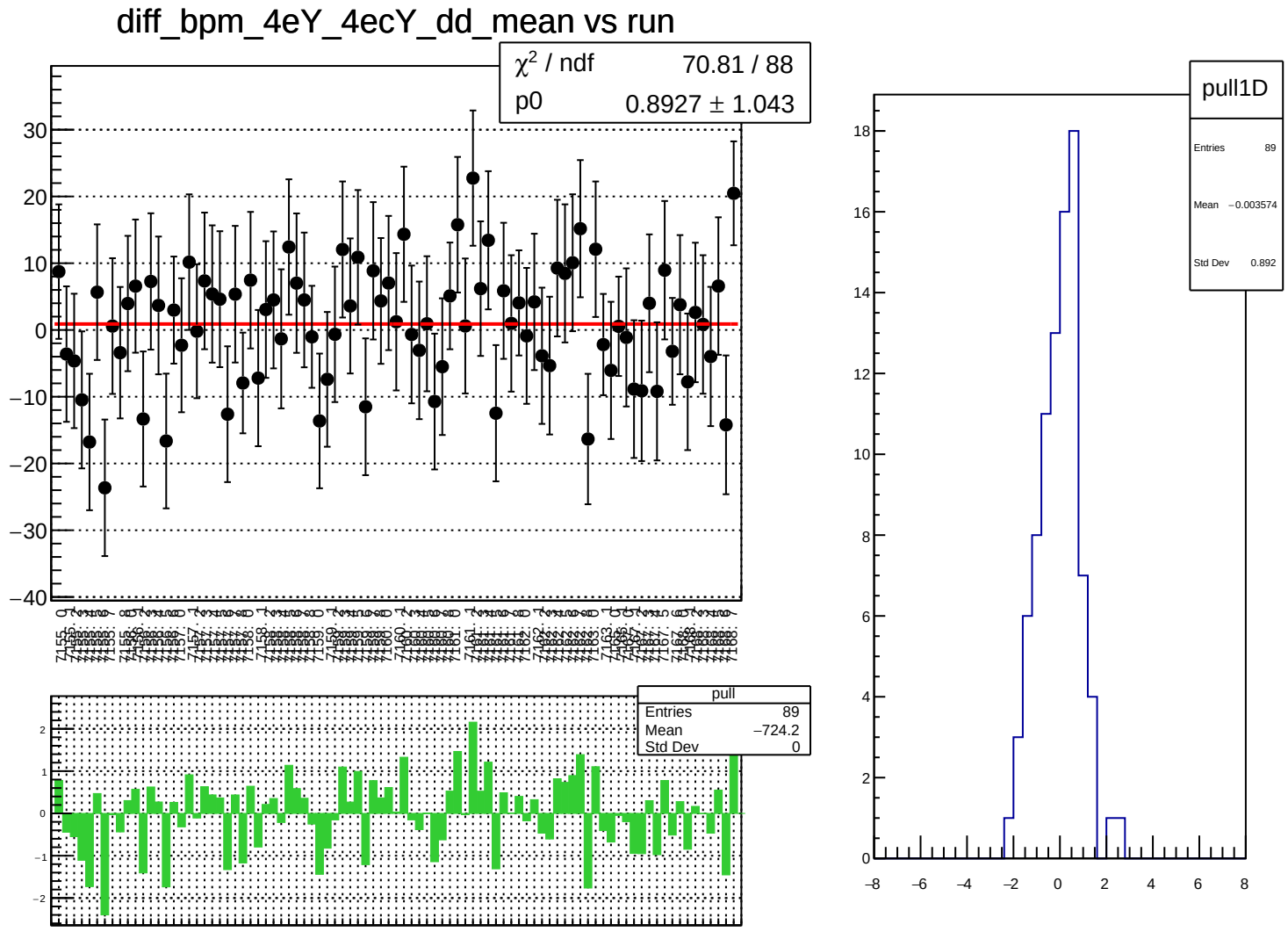

pull1D
Entries 89
Mean 0.0104
Std Dev 0.9097

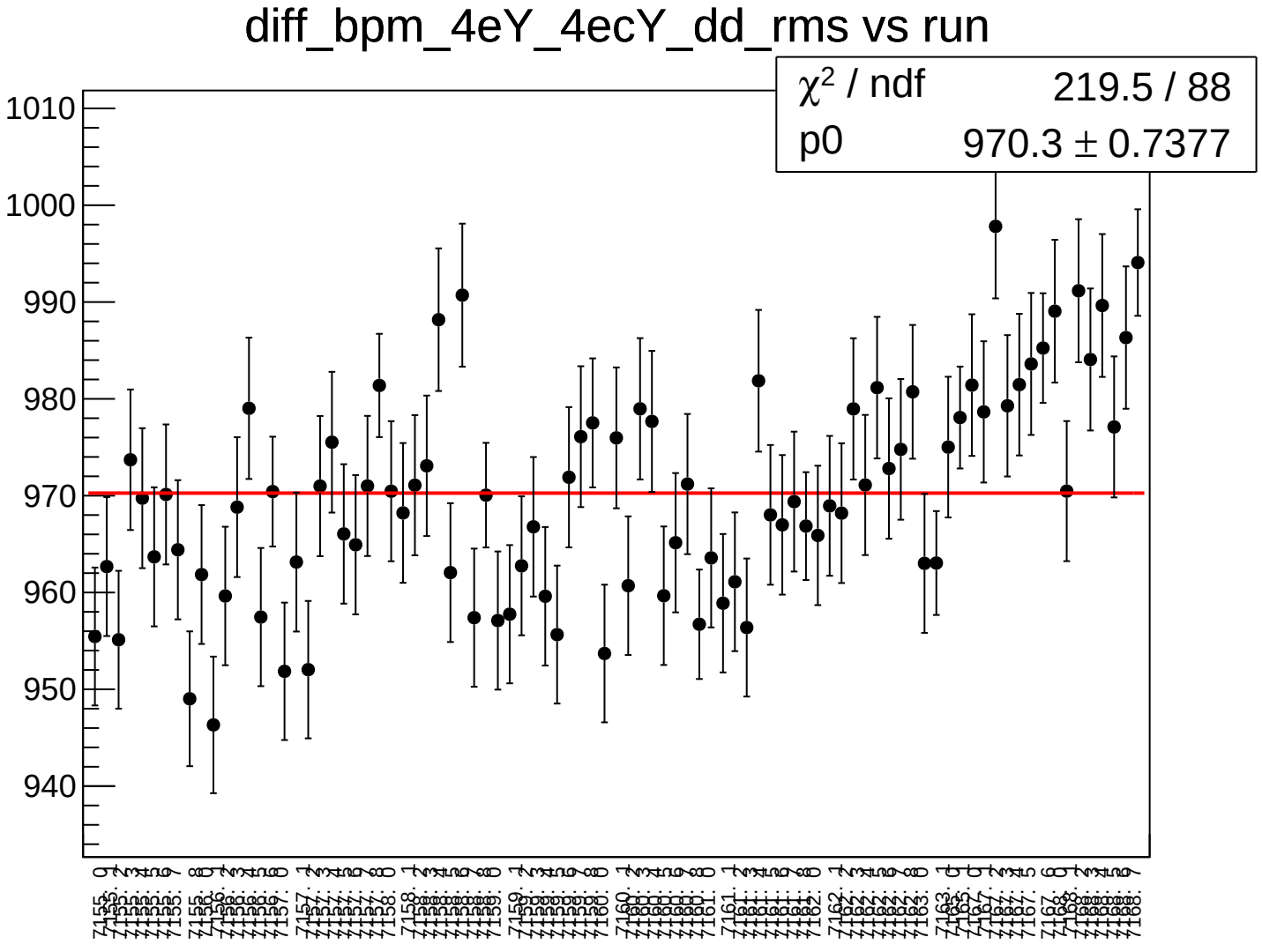

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 2662 / 88
p0 1193 ± 0.9079
1280
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080

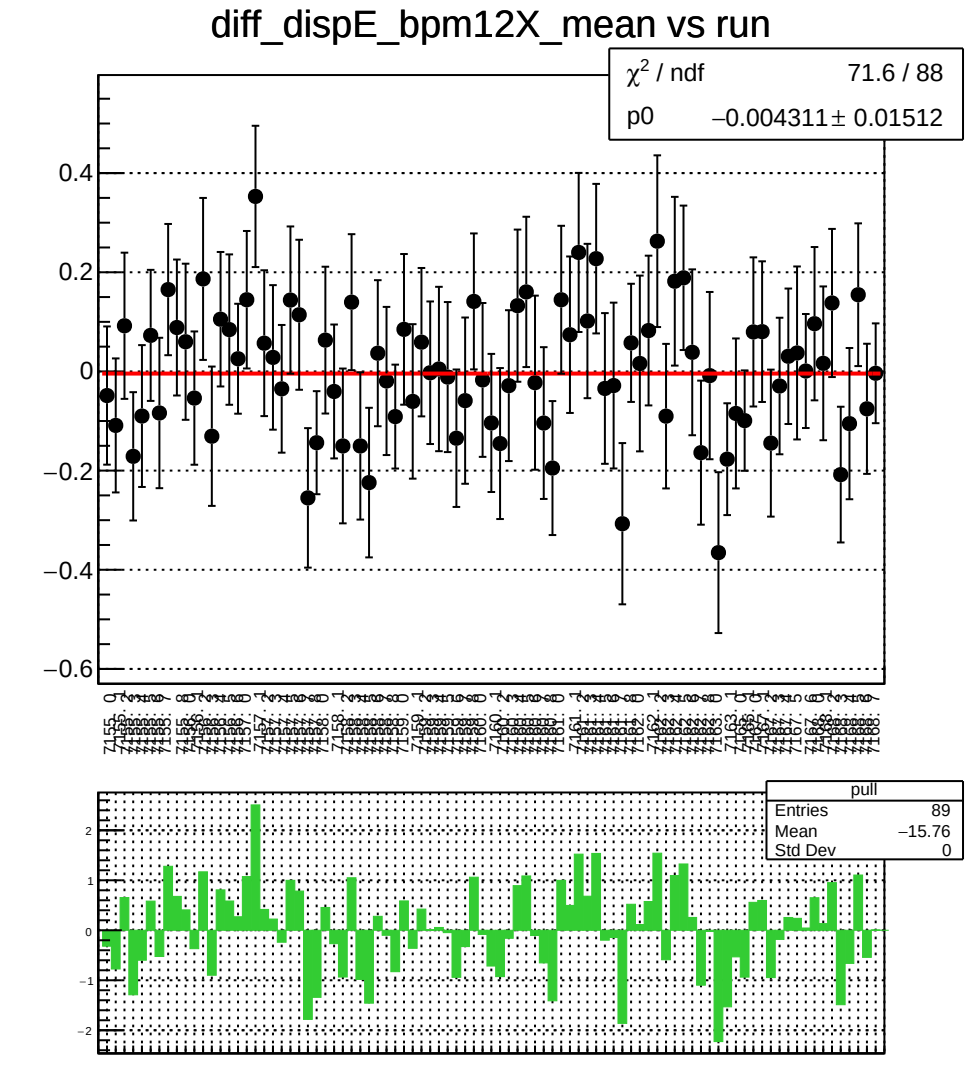

diff_bpm_4eY_4ecY_avg_mean vs run
χ^2 / ndf 60.91 / 88
p0 −5.924 ± 8.091
200
100
0
−100
−200
pull
Entries 89
Mean −107.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

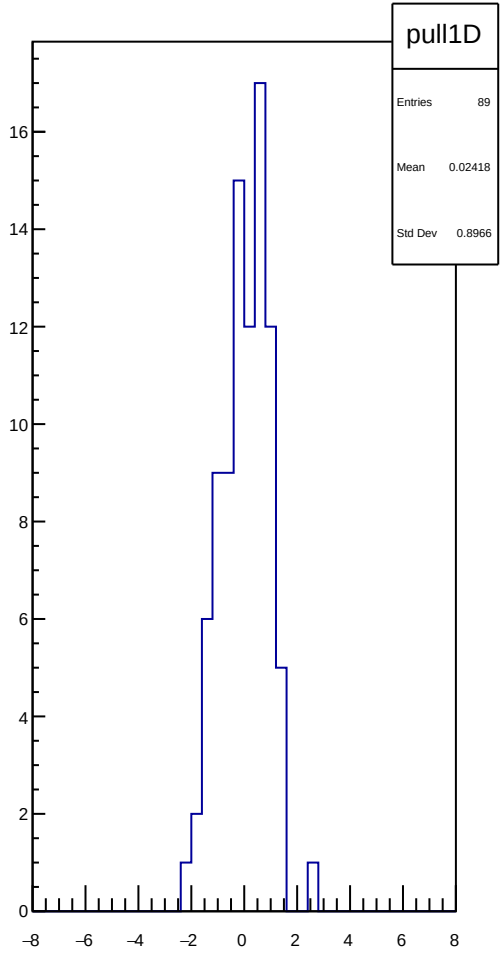

pull1D
Entries 89
Mean −0.01211
Std Dev 0.8272
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

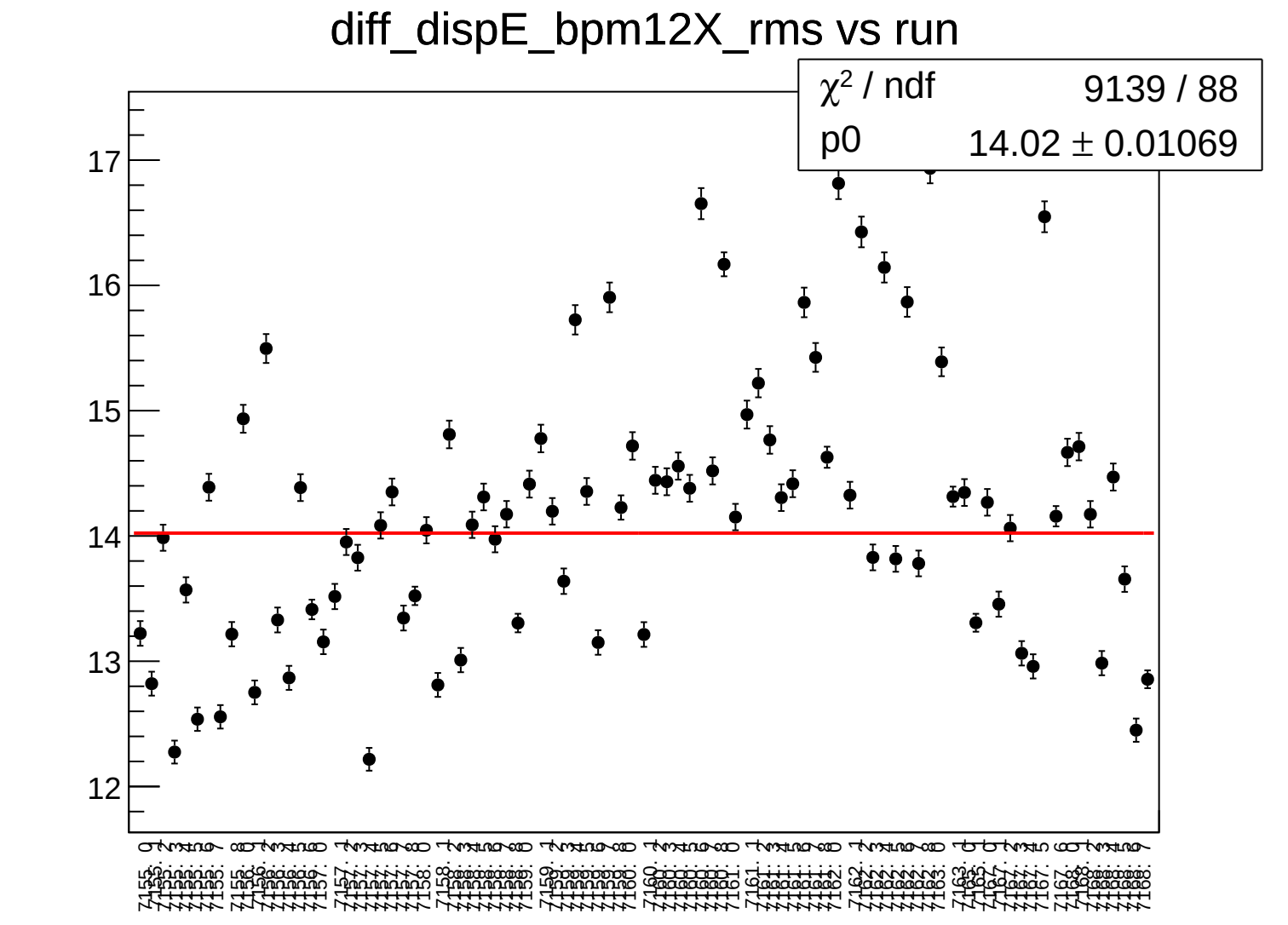

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4805 / 88
p0 7515 ± 5.721
8500
8000
7500
7000
6500

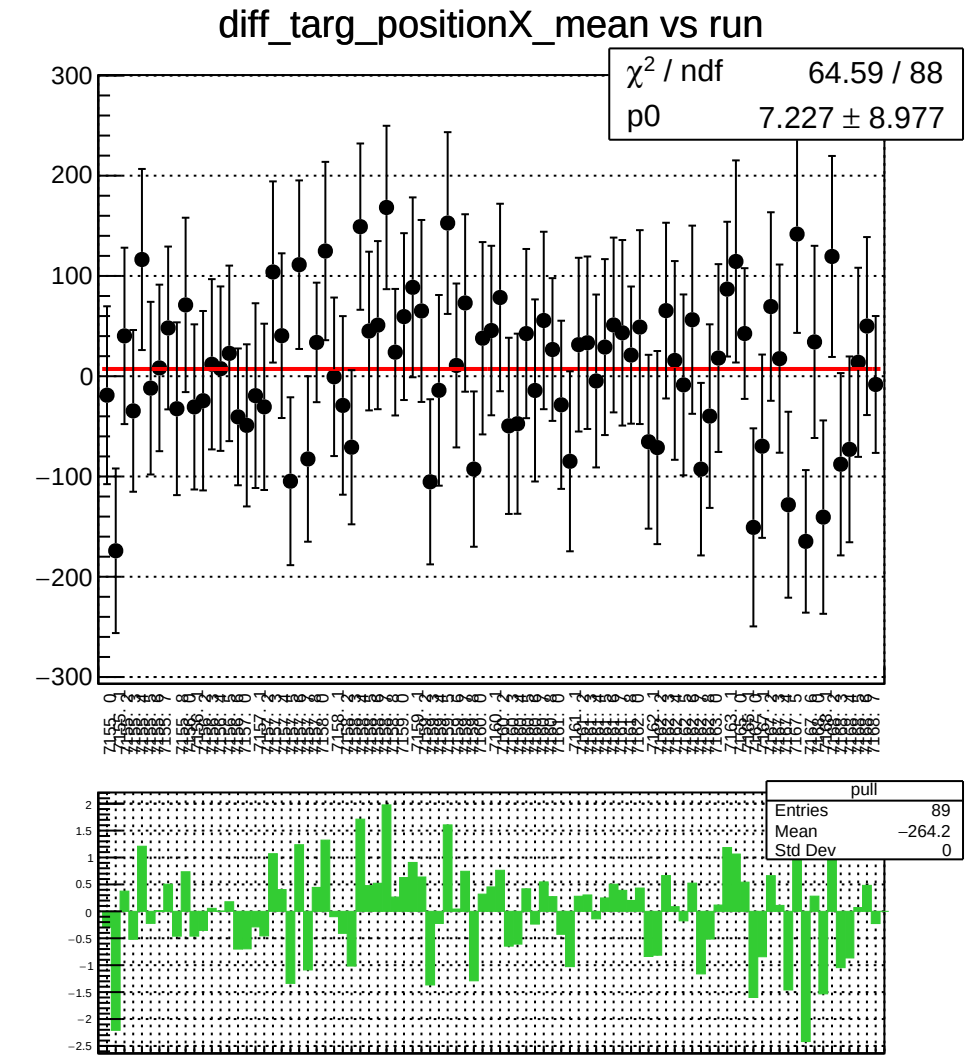

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 70.81 / 88
p0 0.8927 ± 1.043
pull
Entries 89
Mean −724.2
Std Dev 0
pull1D
Entries 89
Mean −0.003574
Std Dev 0.892

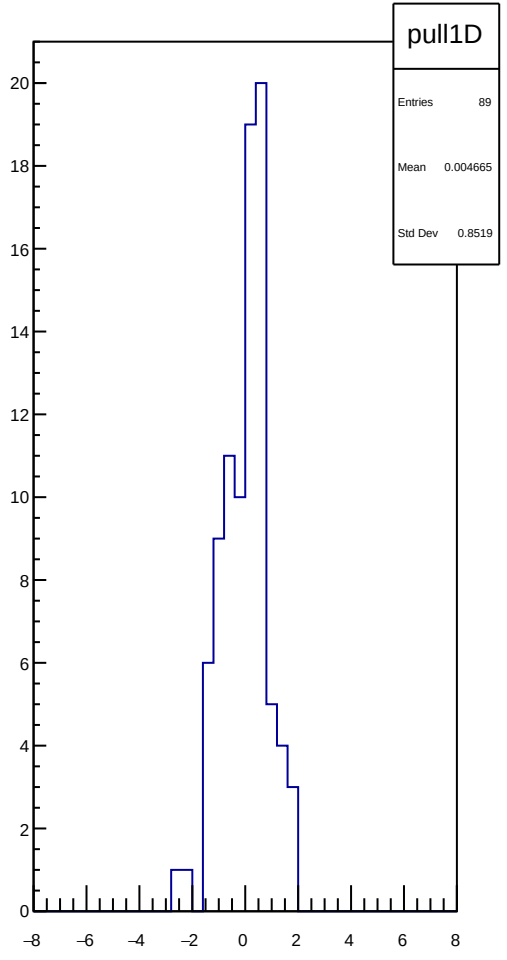

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 219.5 / 88
p0 970.3 ± 0.7377
1010
1000
990
980
970
960
950
940

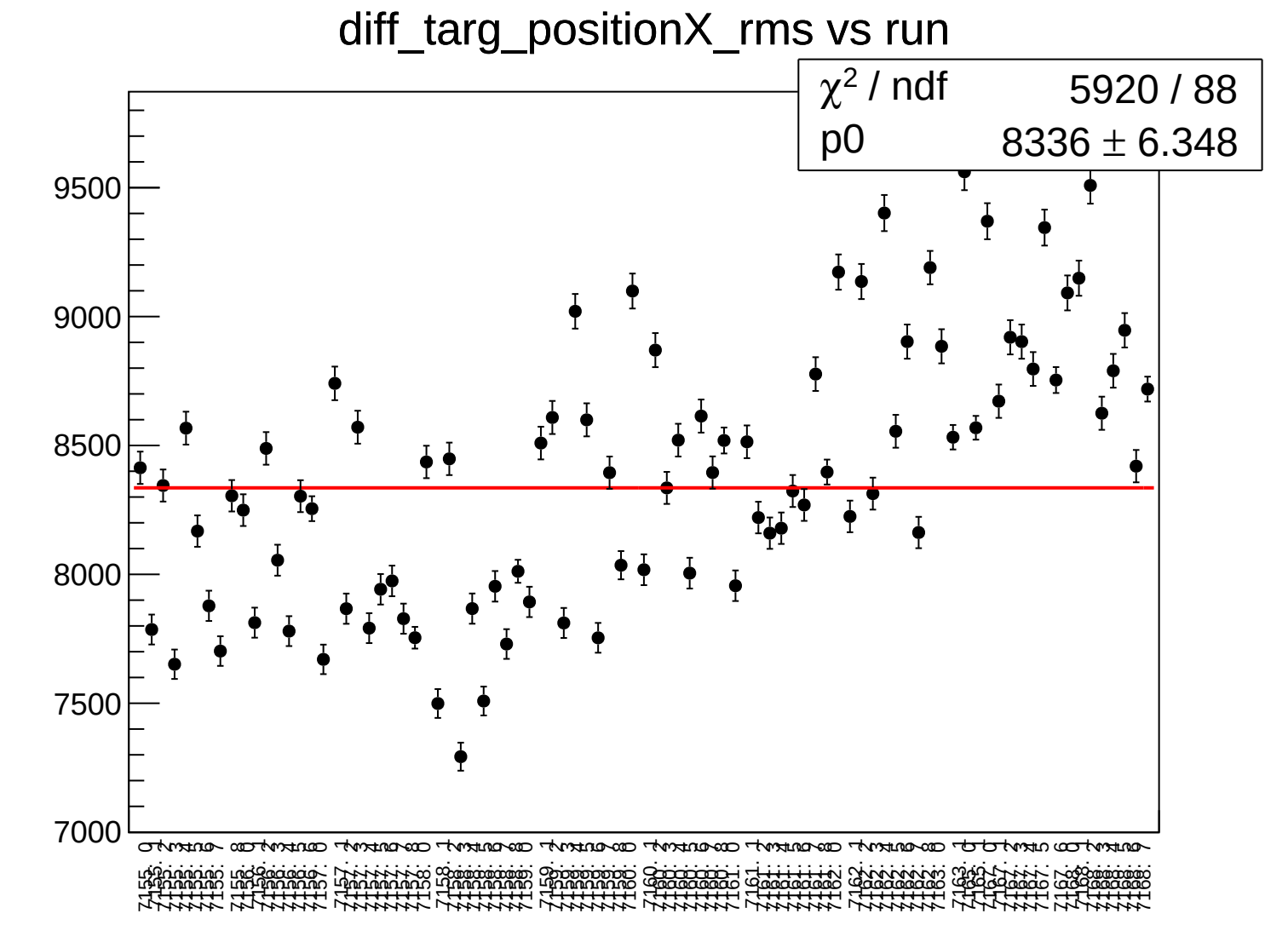

diff_dispE_bpm12X_mean vs run
χ² / ndf 71.6 / 88
p0 −0.004311 ± 0.01512
pull
Entries 89
Mean −15.76
Std Dev 0

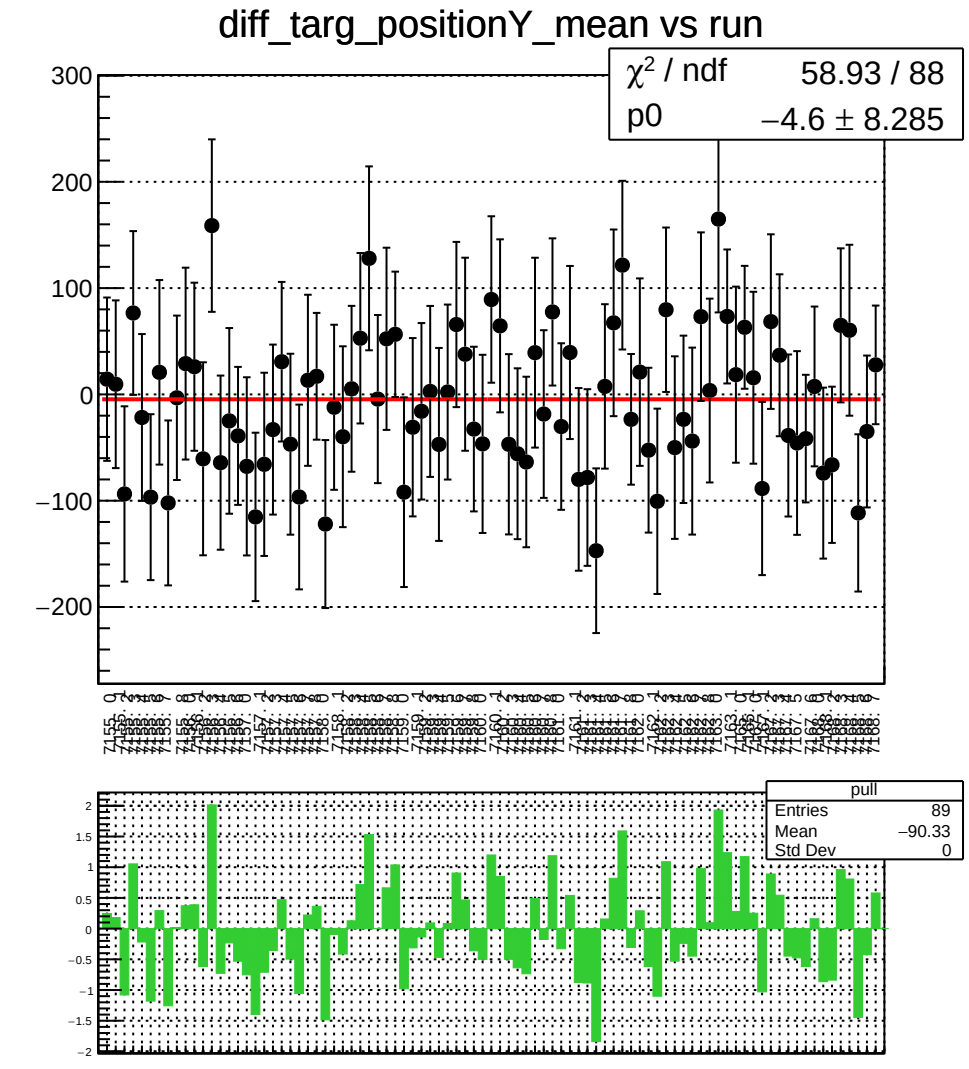

pull1D
Entries 89
Mean 0.02418
Std Dev 0.8966

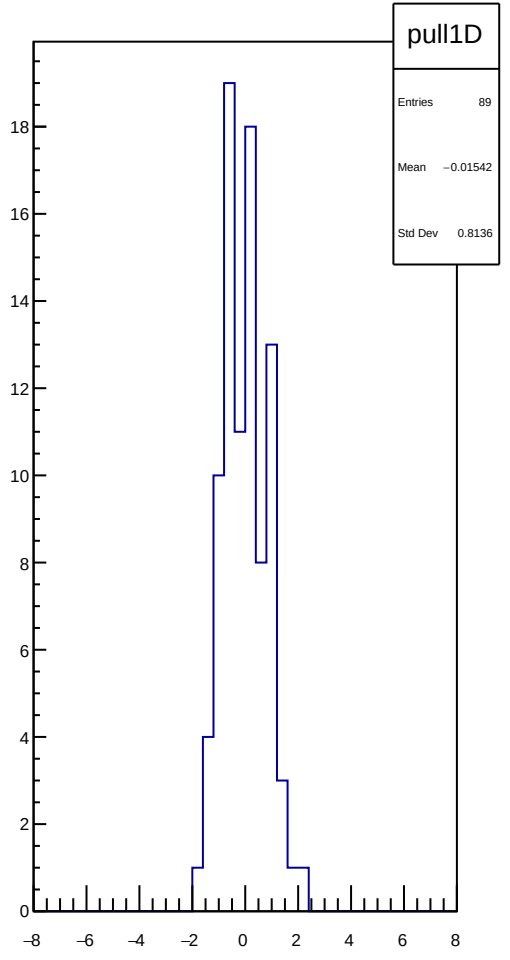

diff_dispE_bpm12X_rms vs run
χ² / ndf 9139 / 88
p0 14.02 ± 0.01069
17
16
15
14
13
12

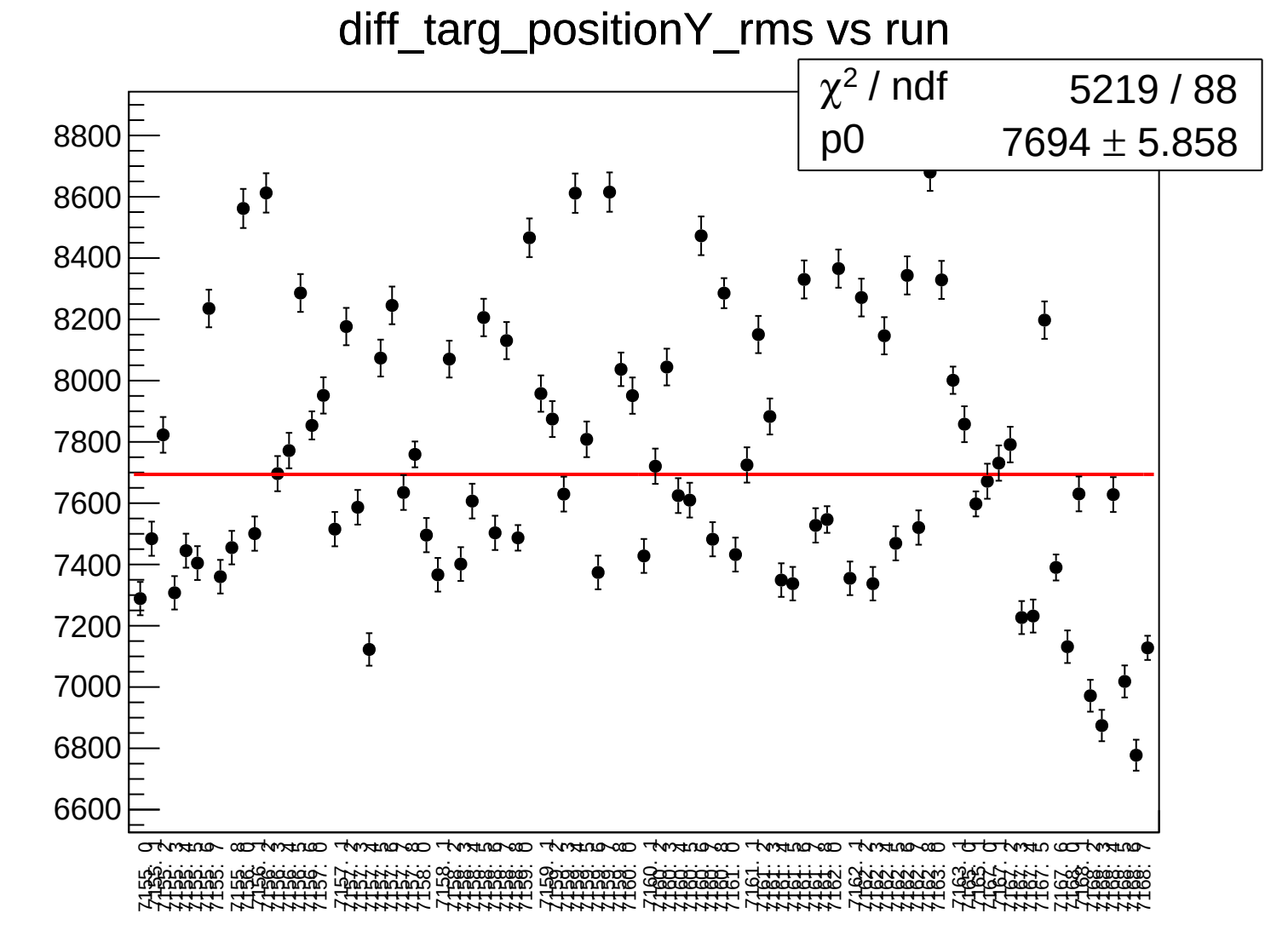

diff_targ_positionX_mean vs run
χ² / ndf 64.59 / 88
p0 7.227 ± 8.977
pull
Entries 89
Mean −264.2
Std Dev 0

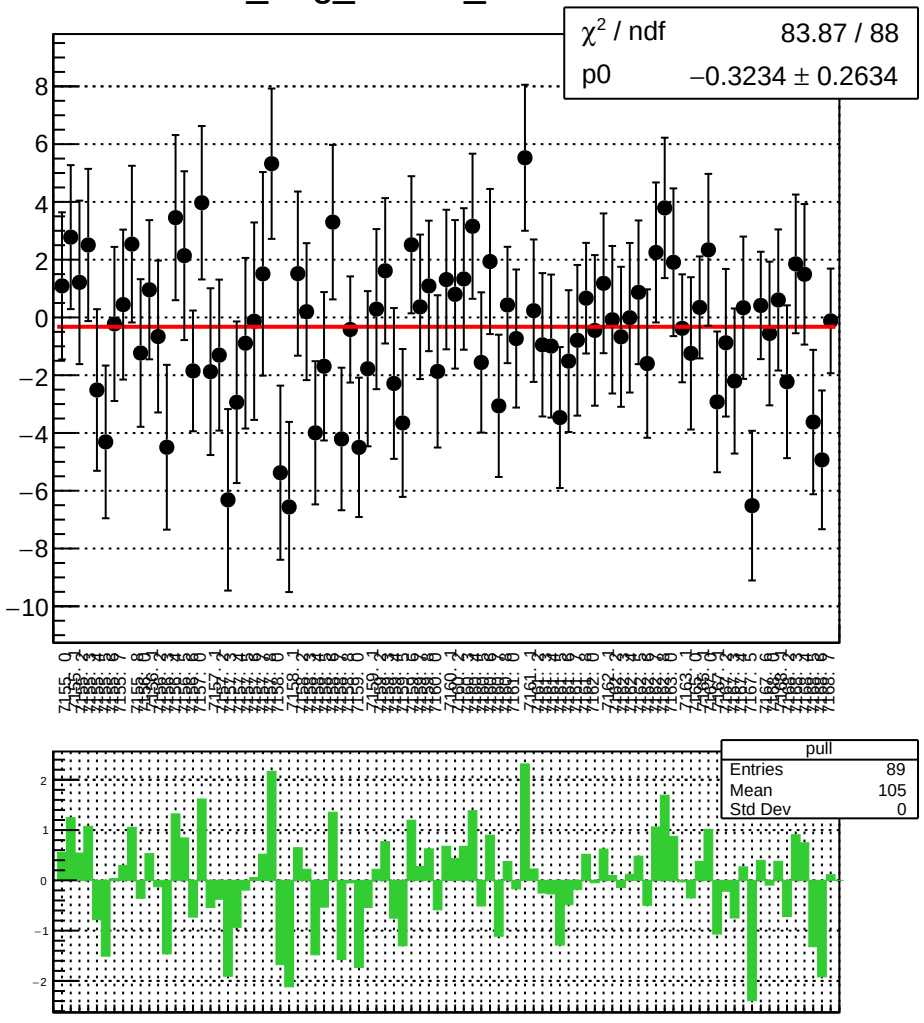

pull1D
Entries 89
Mean 0.004665
Std Dev 0.8519

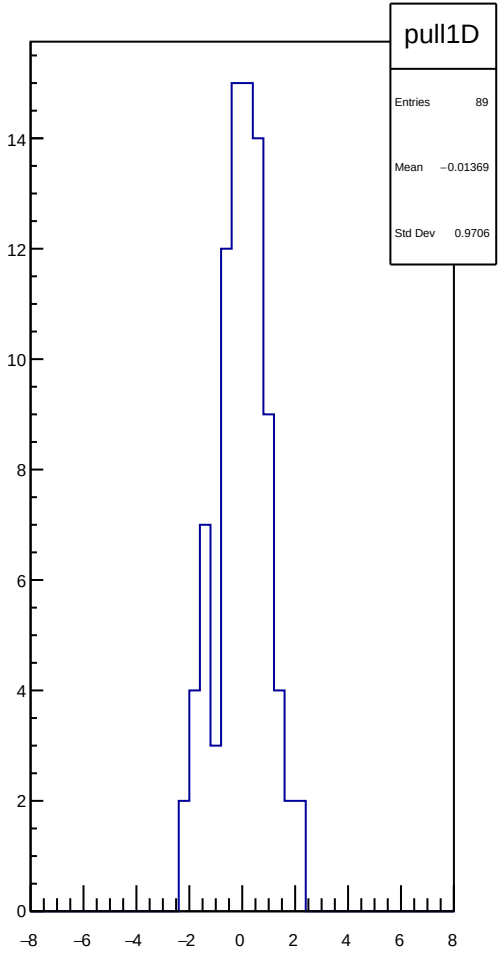

diff_targ_positionX_rms vs run
χ^2 / ndf 5920 / 88
p0 8336 ± 6.348
9500
9000
8500
8000
7500
7000

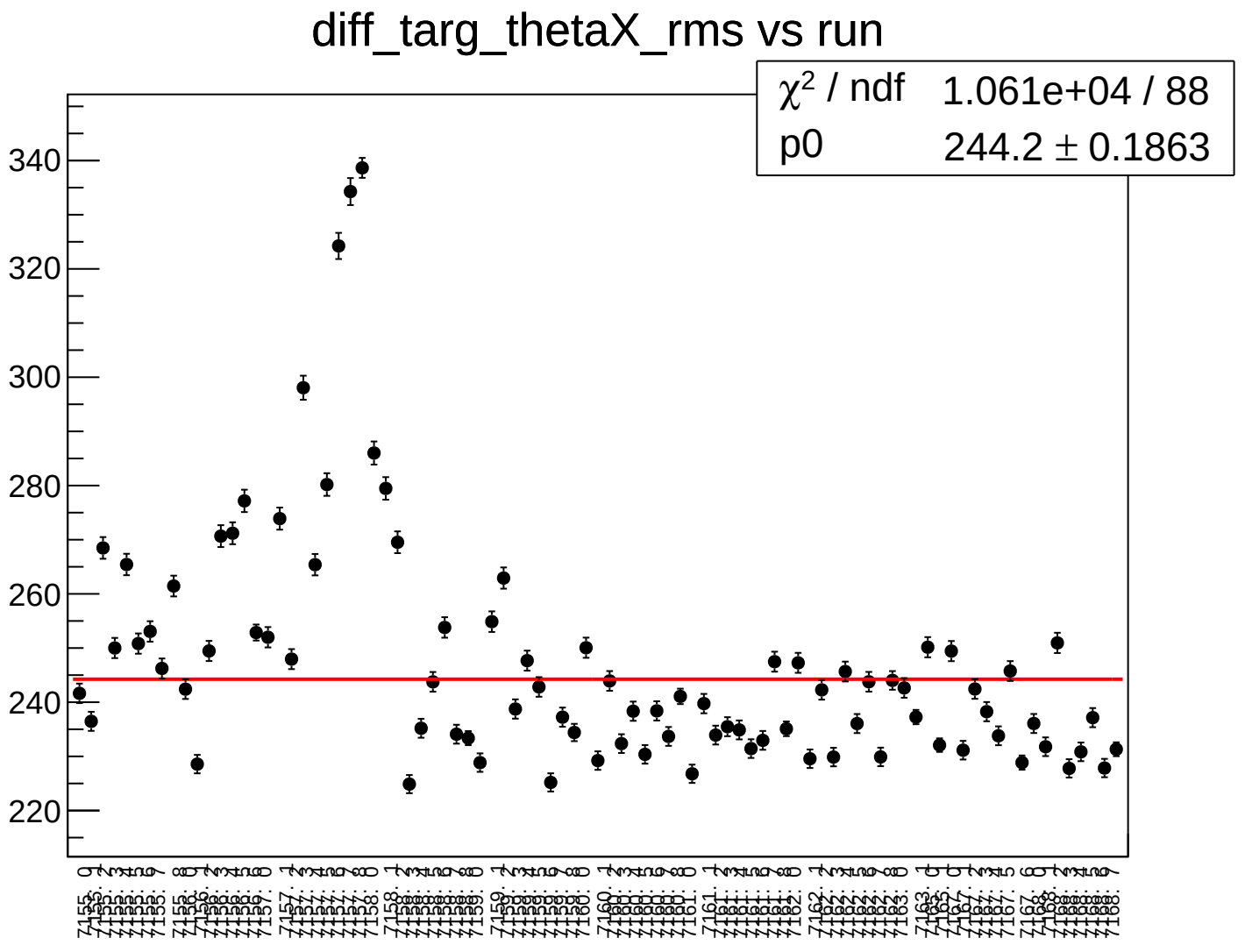

diff_targ_positionY_mean vs run
χ² / ndf 58.93 / 88
p0 −4.6 ± 8.285
pull
Entries 89
Mean −90.33
Std Dev 0

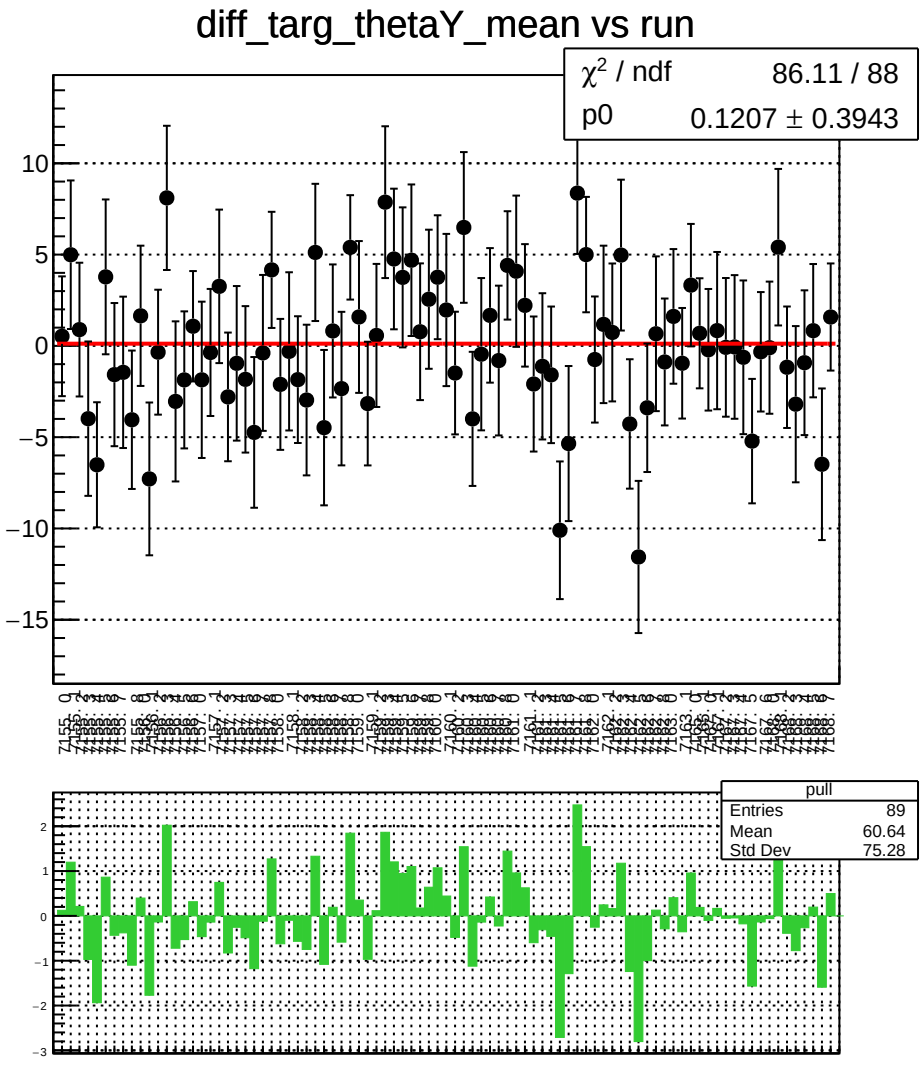

pull1D
Entries 89
Mean −0.01542
Std Dev 0.8136

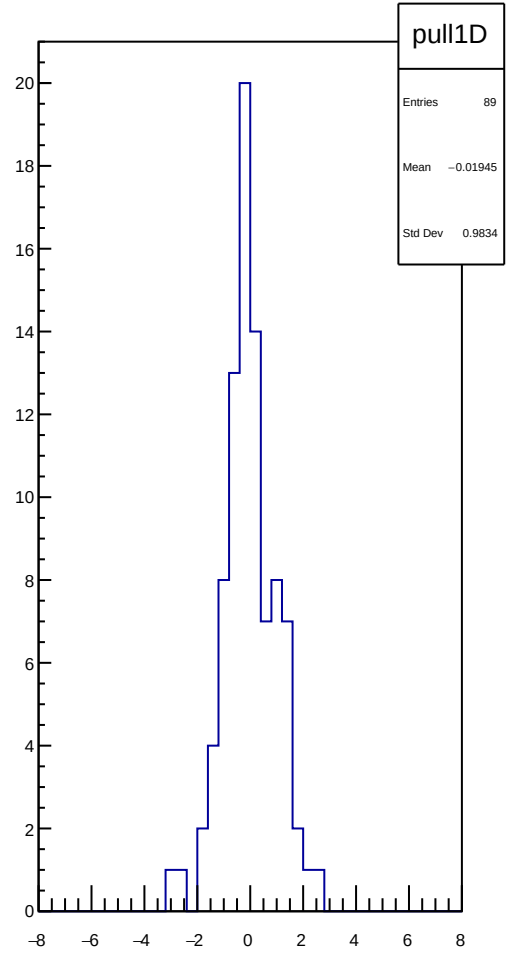

diff_targ_positionY_rms vs run
χ^2 / ndf 5219 / 88
p0 7694 ± 5.858
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

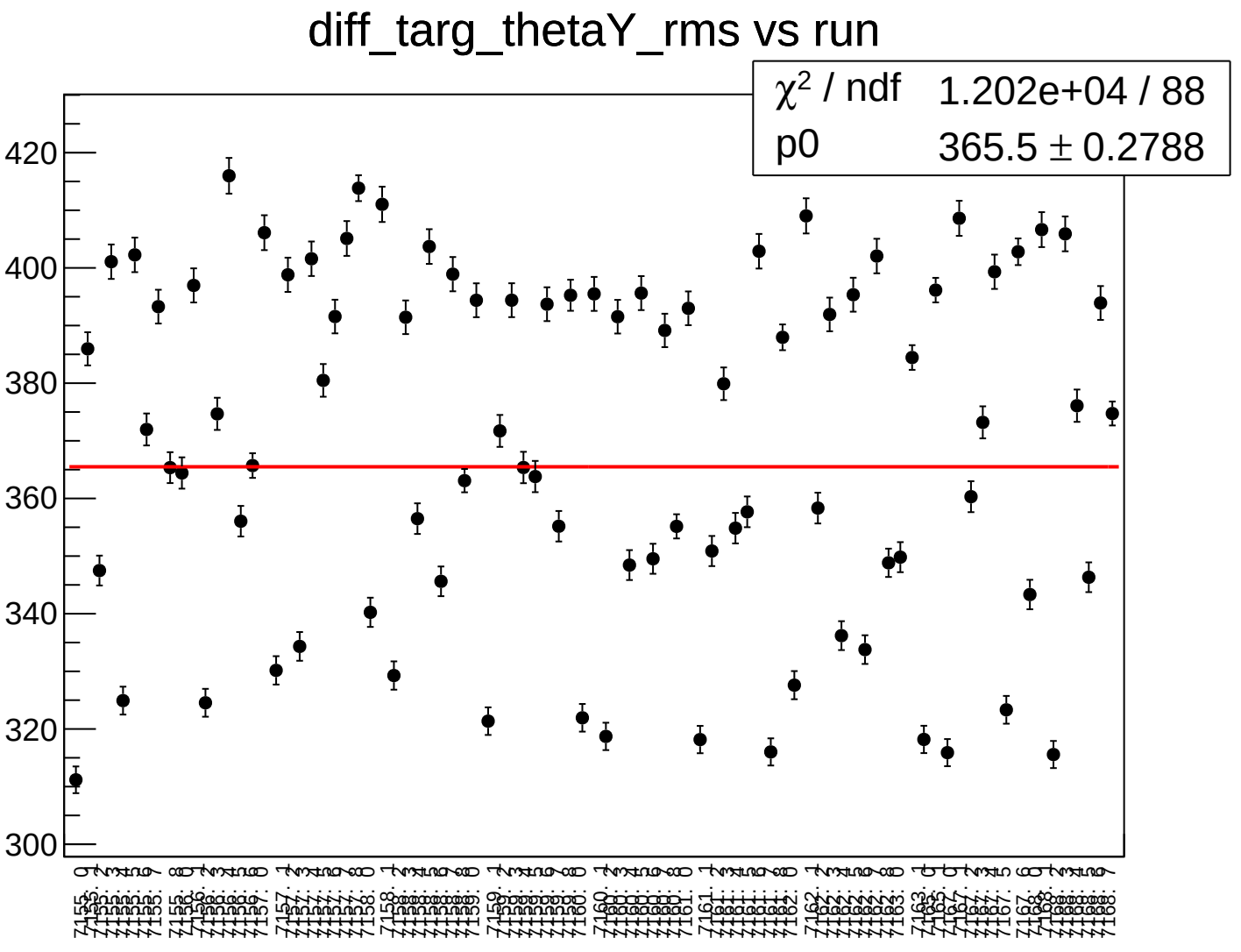

diff_targ_thetaX_mean vs run
χ² / ndf 83.87 / 88
p0 −0.3234 ± 0.2634
pull
Entries 89
Mean 105
Std Dev 0

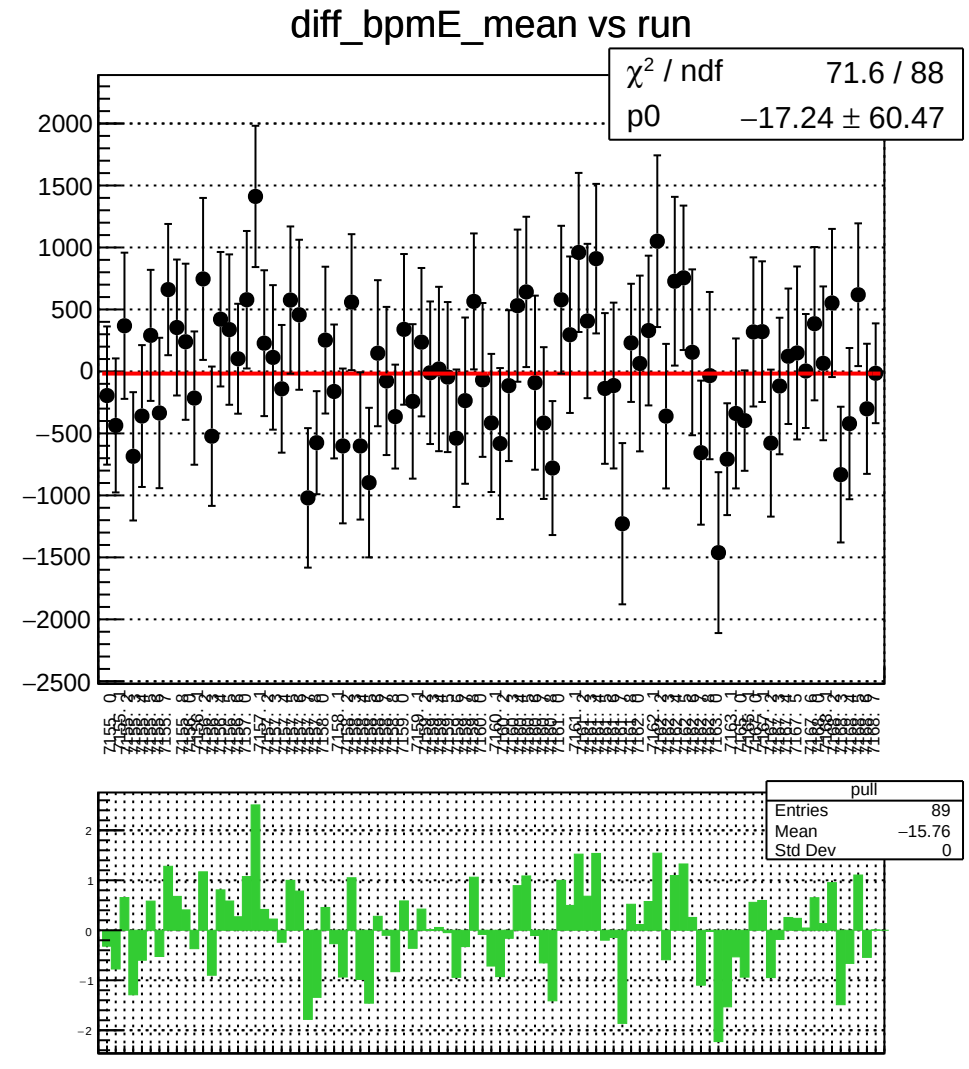

pull1D
Entries 89
Mean −0.01369
Std Dev 0.9706

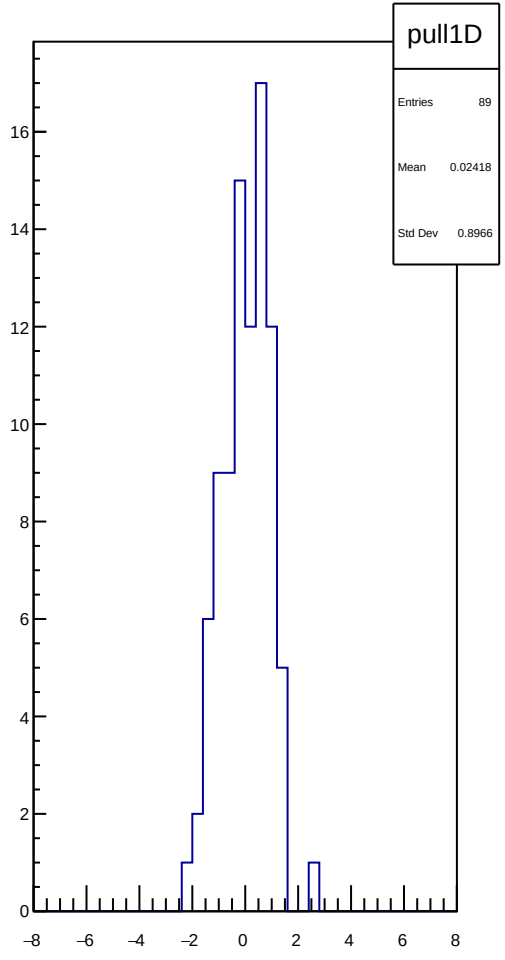

diff_targ_thetaX_rms vs run
χ² / ndf 1.061e+04 / 88
p0 244.2 ± 0.1863
340
320
300
280
260
240
220

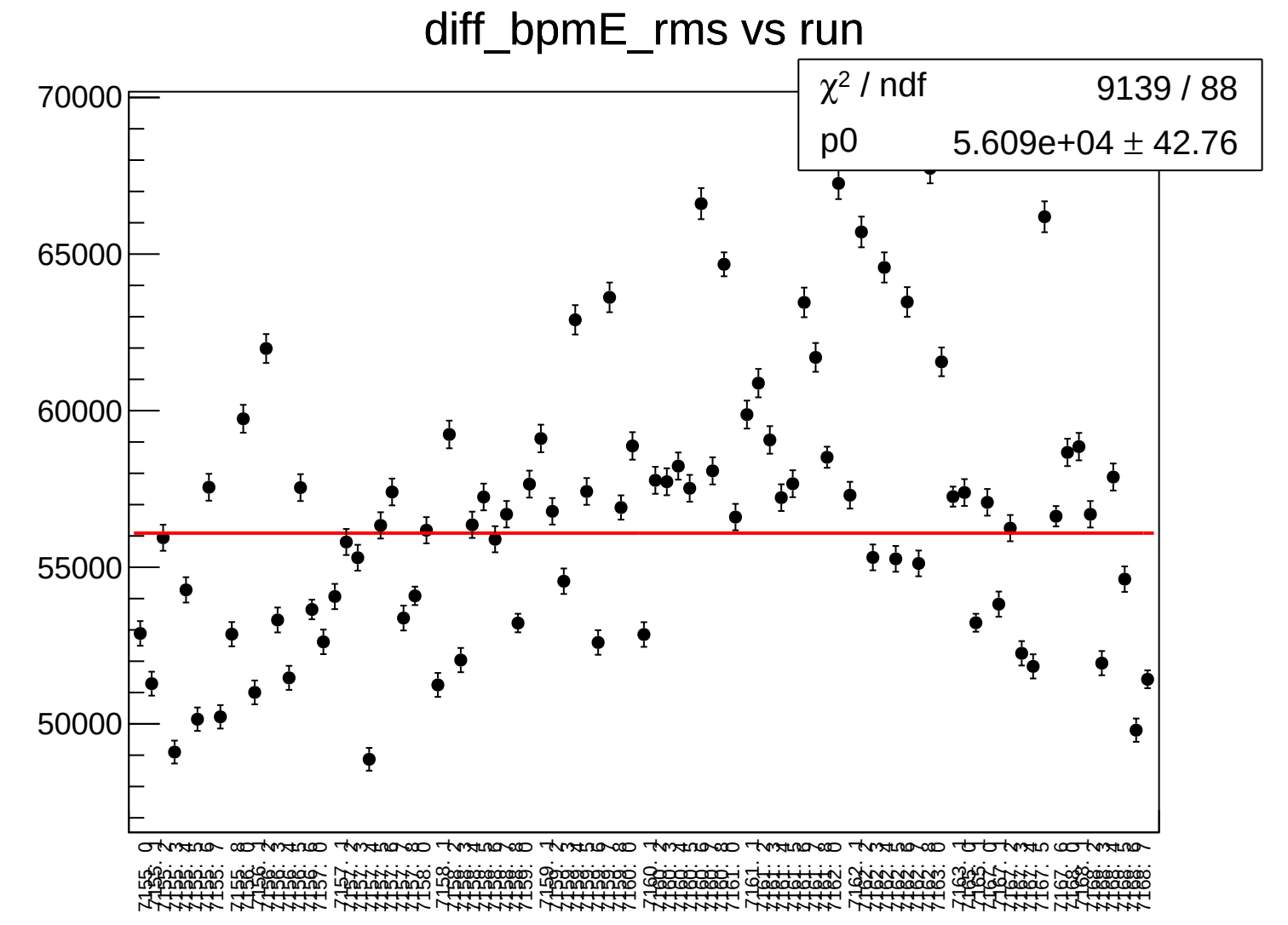

diff_targ_thetaY_mean vs run
χ² / ndf 86.11 / 88
p0 0.1207 ± 0.3943
pull
Entries 89
Mean 60.64
Std Dev 75.28

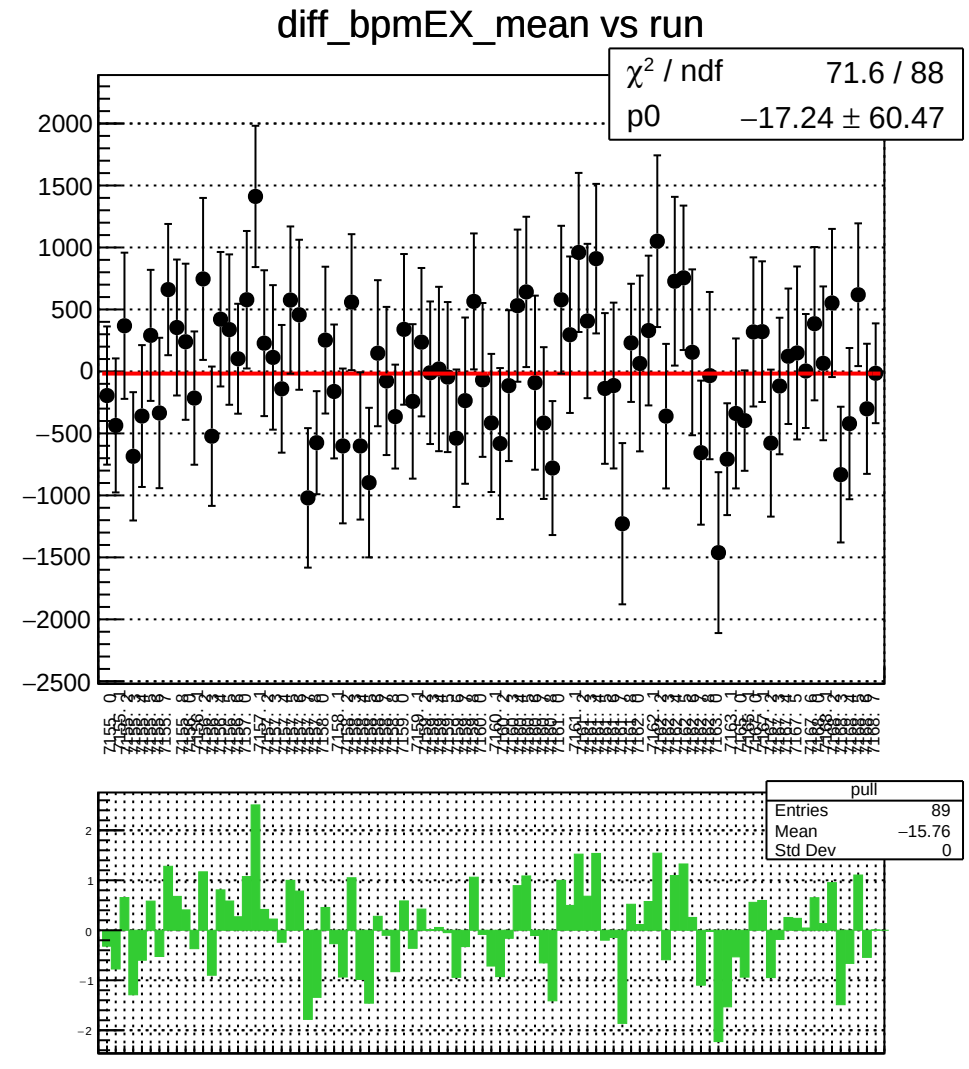

pull1D
Entries 89
Mean −0.01945
Std Dev 0.9834

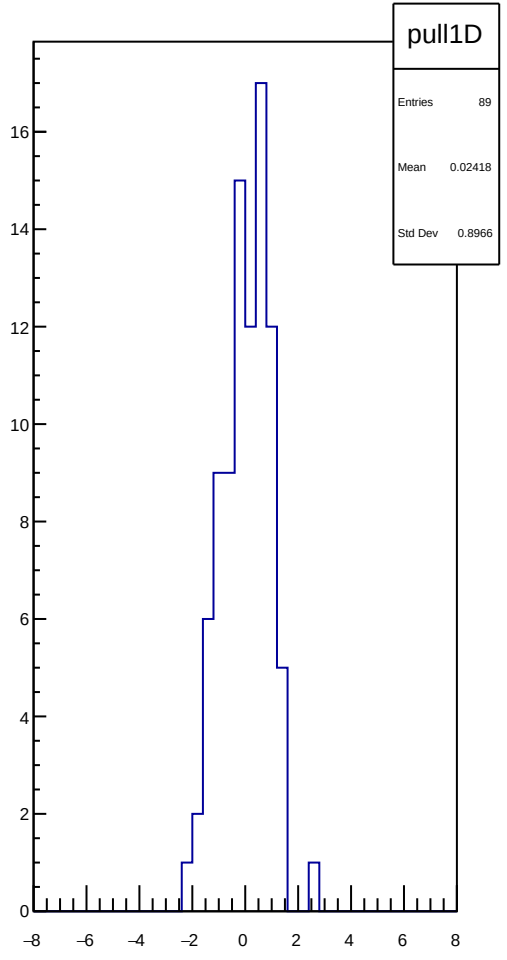

diff_targ_thetaY_rms vs run
χ² / ndf 1.202e+04 / 88
p0 365.5 ± 0.2788
420
400
380
360
340
320
300

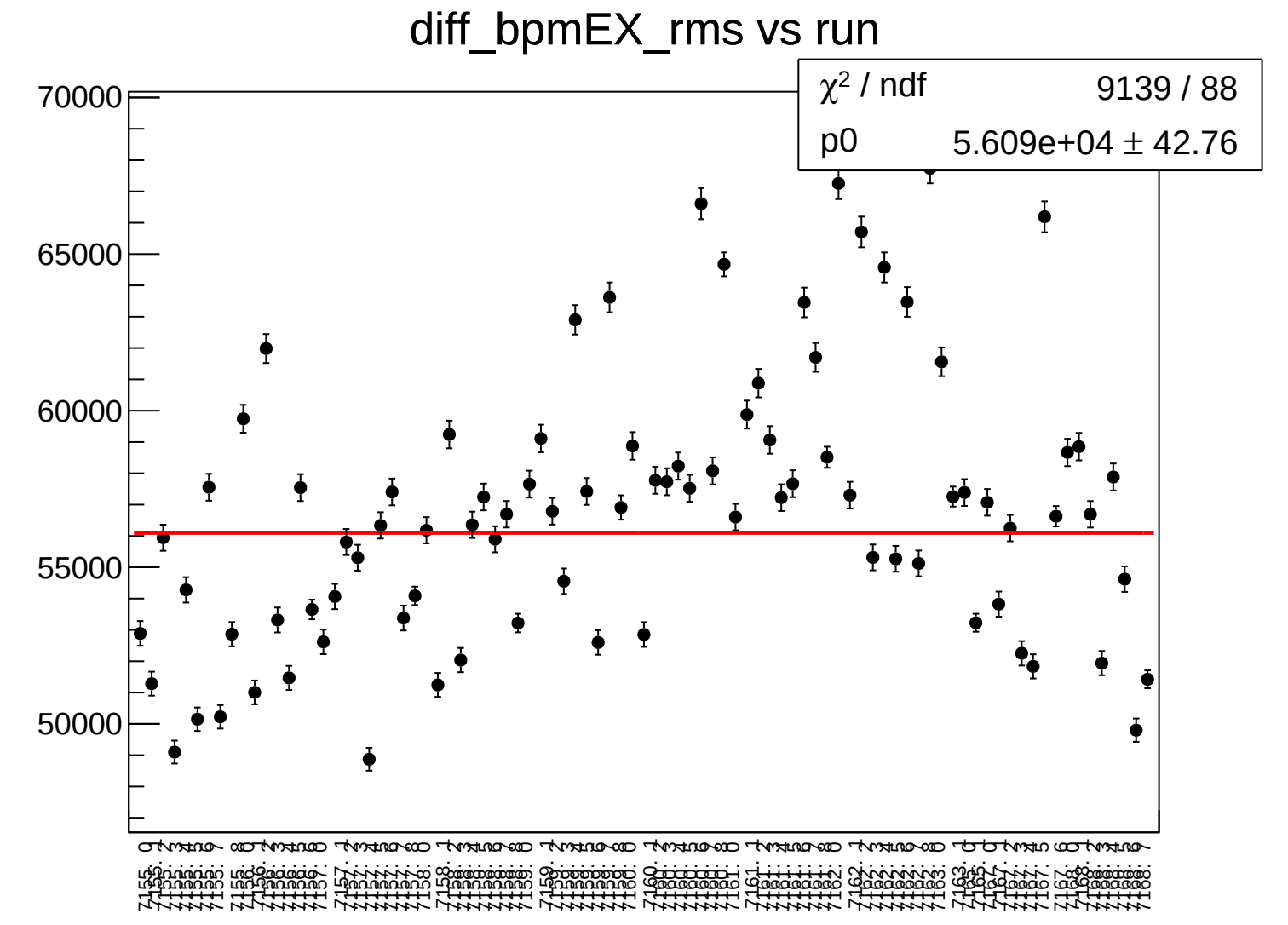

diff_bpmE_mean vs run
χ² / ndf 71.6 / 88
p0 −17.24 ± 60.47
pull
Entries 89
Mean −15.76
Std Dev 0

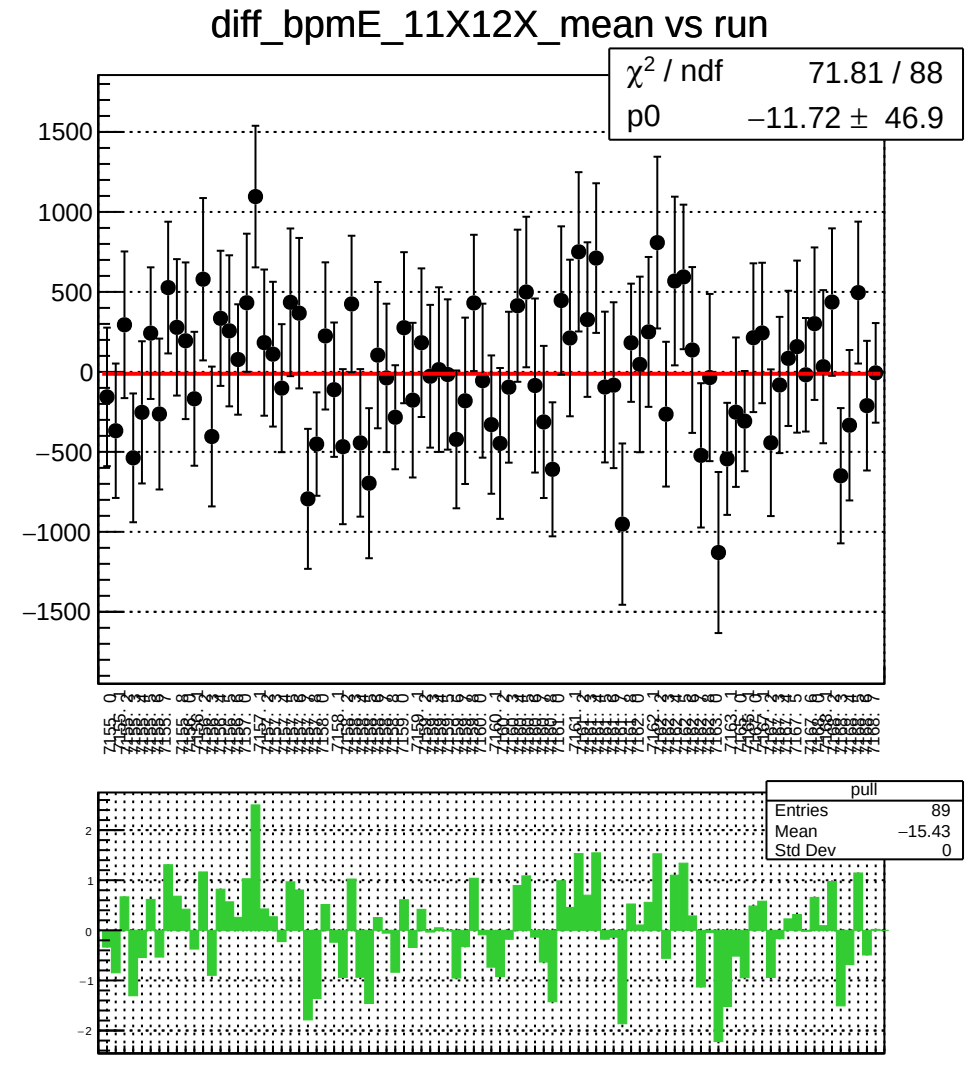

pull1D
Entries 89
Mean 0.02418
Std Dev 0.8966

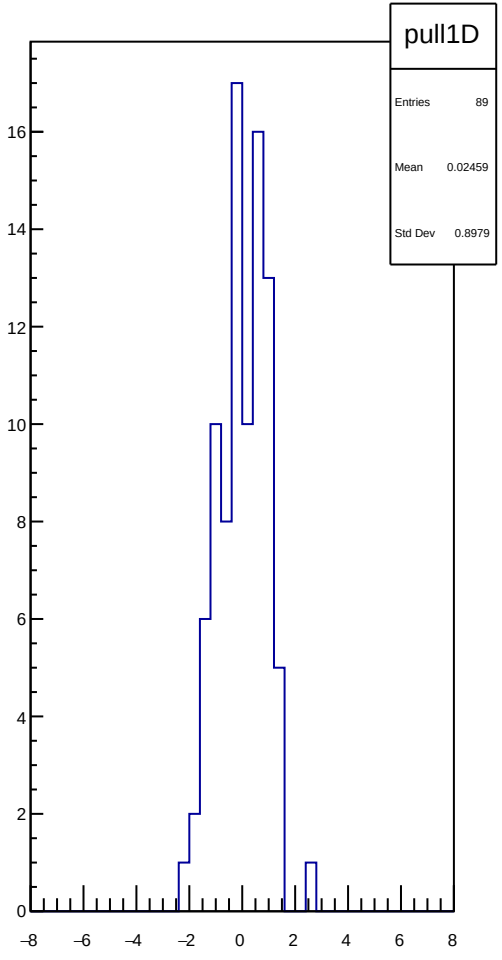

diff_bpmE_rms vs run
χ^2 / ndf 9139 / 88
p0 5.609e+04 ± 42.76
70000
65000
60000
55000
50000

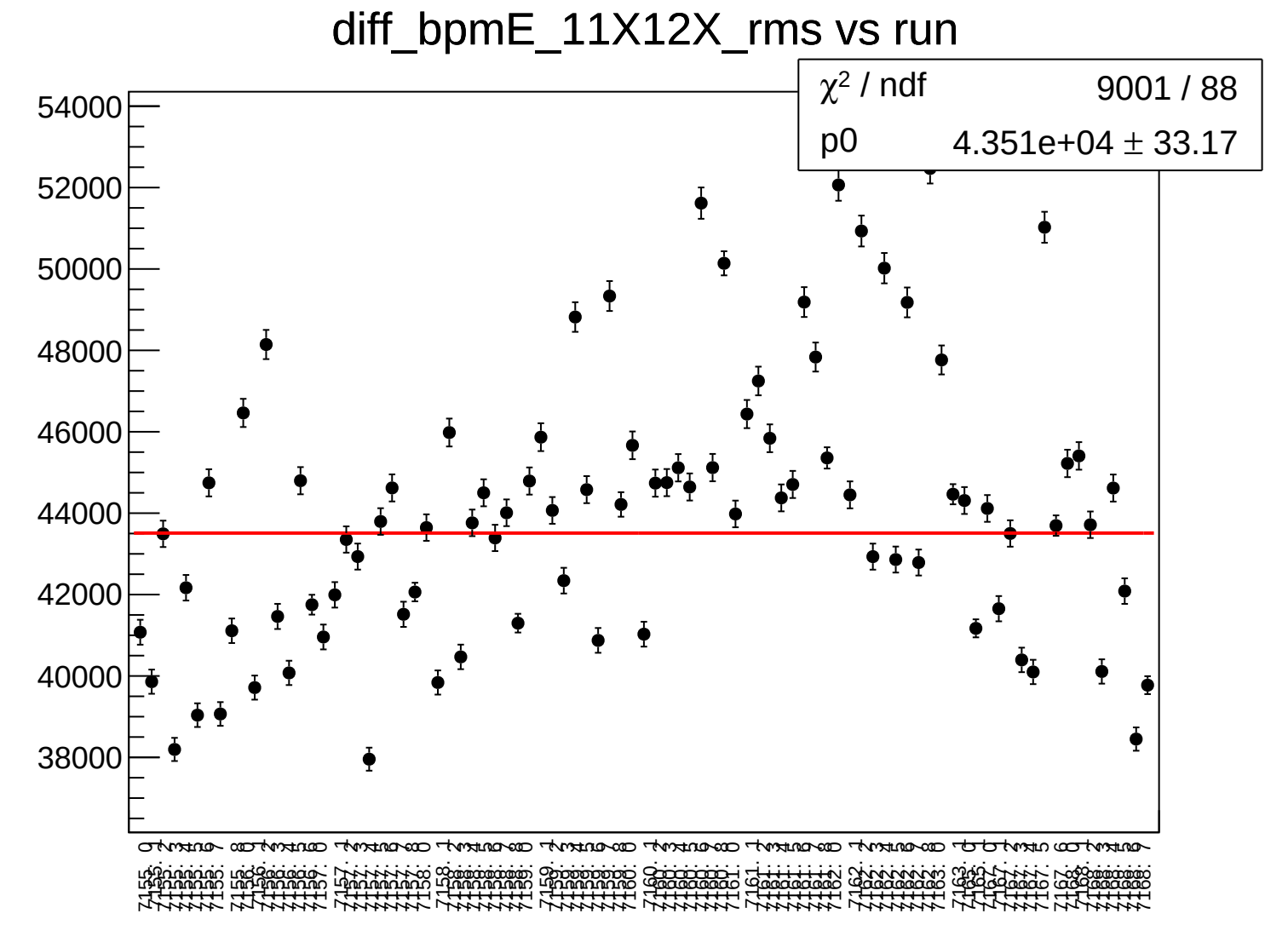

diff_bpmEX_mean vs run
χ² / ndf 71.6 / 88
p0 −17.24 ± 60.47
pull
Entries 89
Mean −15.76
Std Dev 0

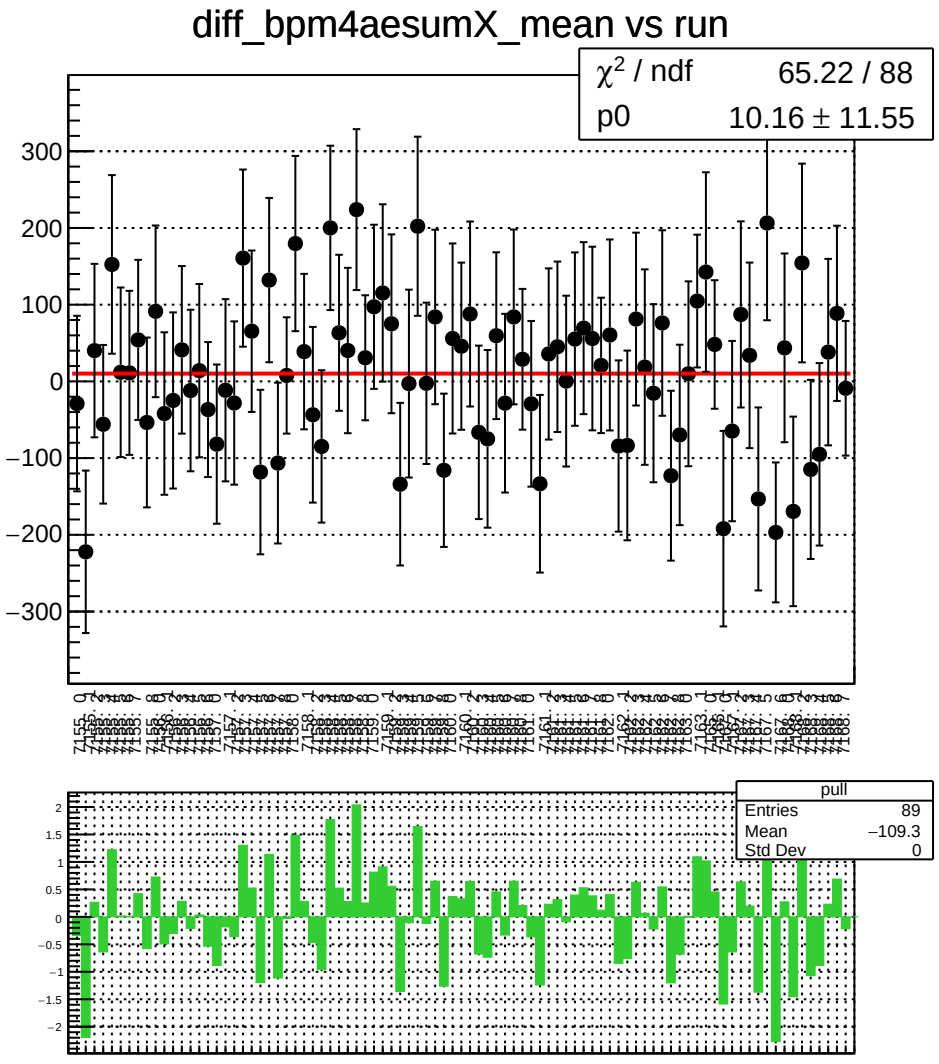

pull1D
Entries 89
Mean 0.02418
Std Dev 0.8966

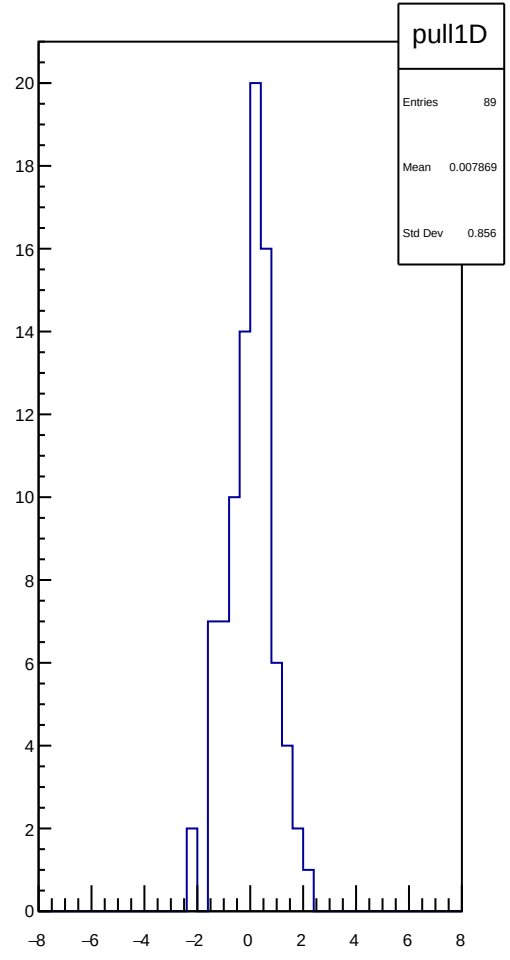

diff_bpmEX_rms vs run
χ^2 / ndf 9139 / 88
p0 5.609e+04 ± 42.76
70000
65000
60000
55000
50000

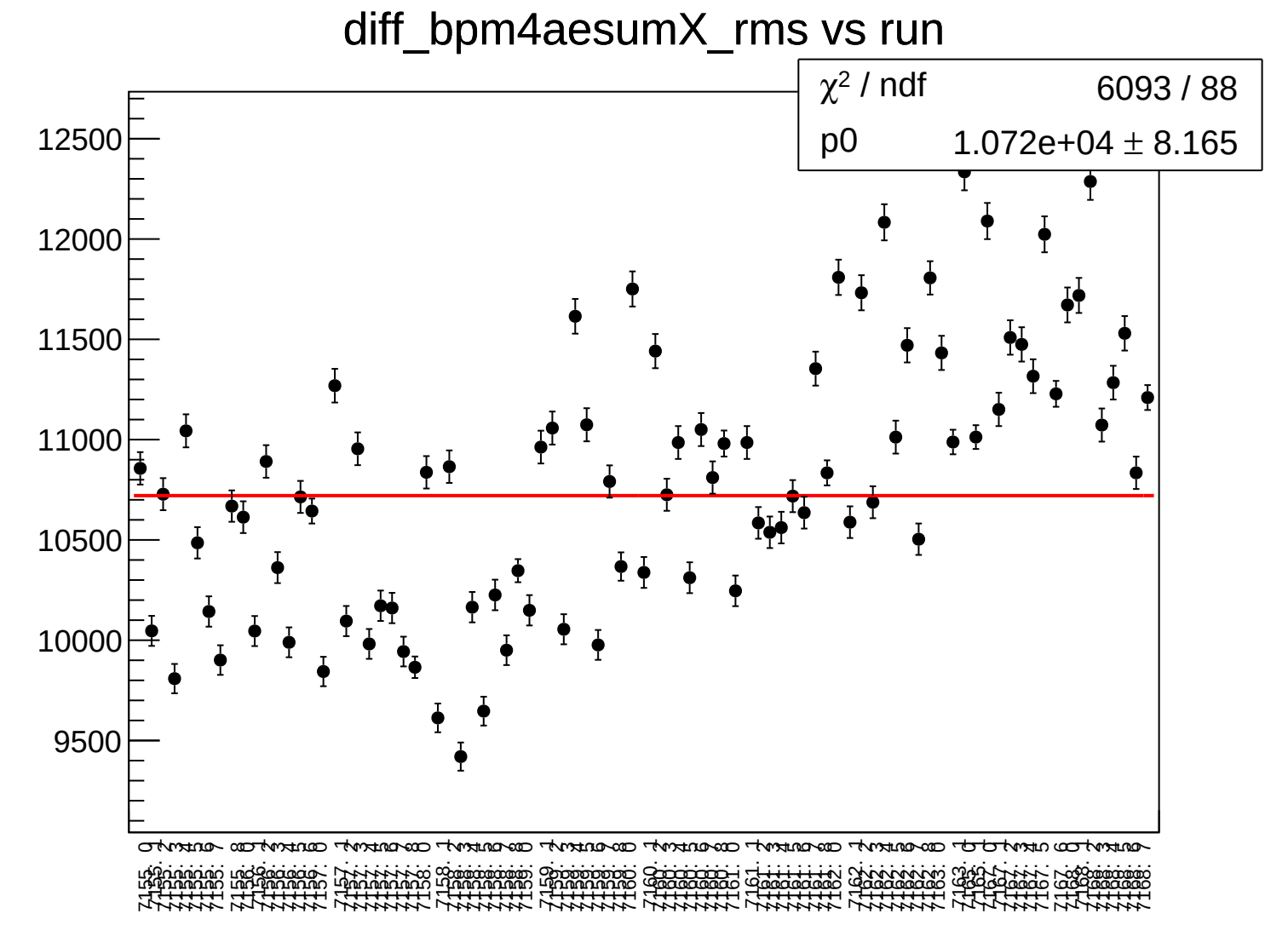

diff_bpmE_11X12X_mean vs run
χ² / ndf 71.81 / 88
p0 −11.72 ± 46.9
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −15.43
Std Dev 0
2
1
0
−1
−2

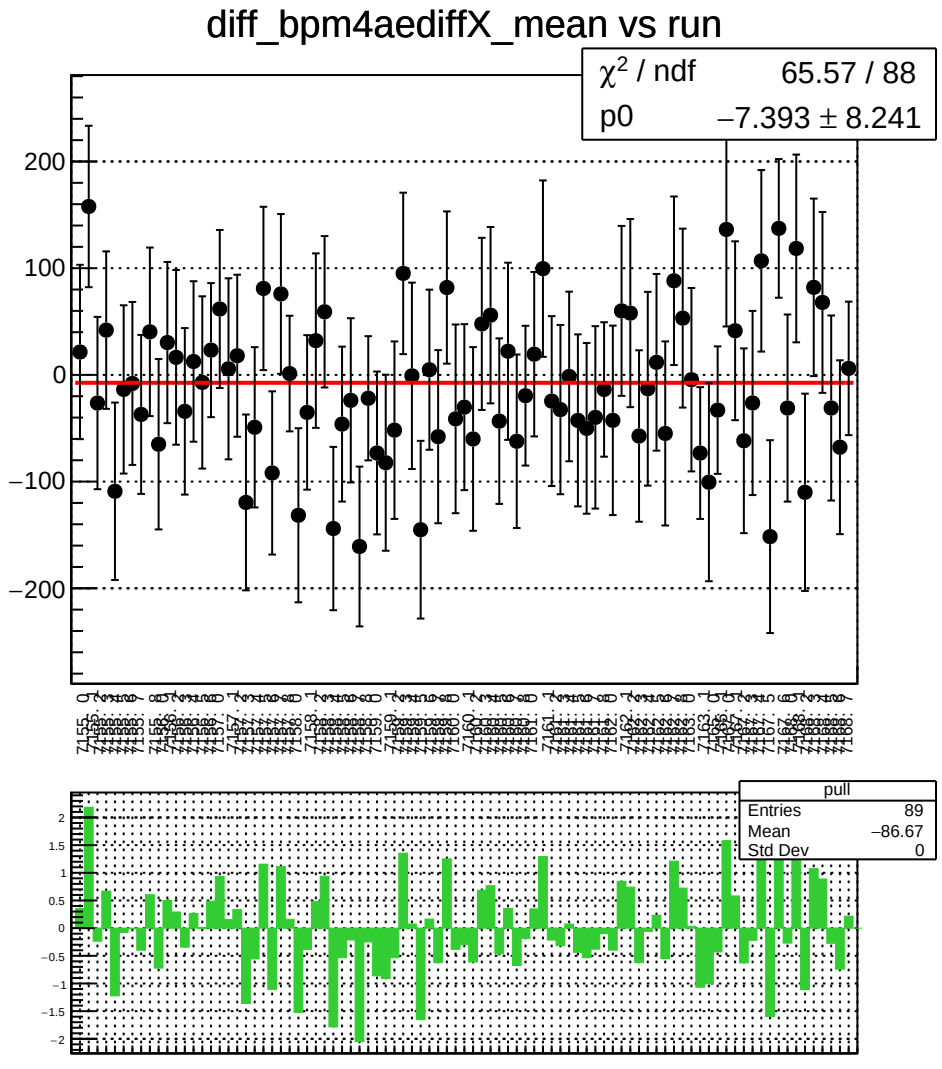

pull1D
Entries 89
Mean 0.02459
Std Dev 0.8979
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

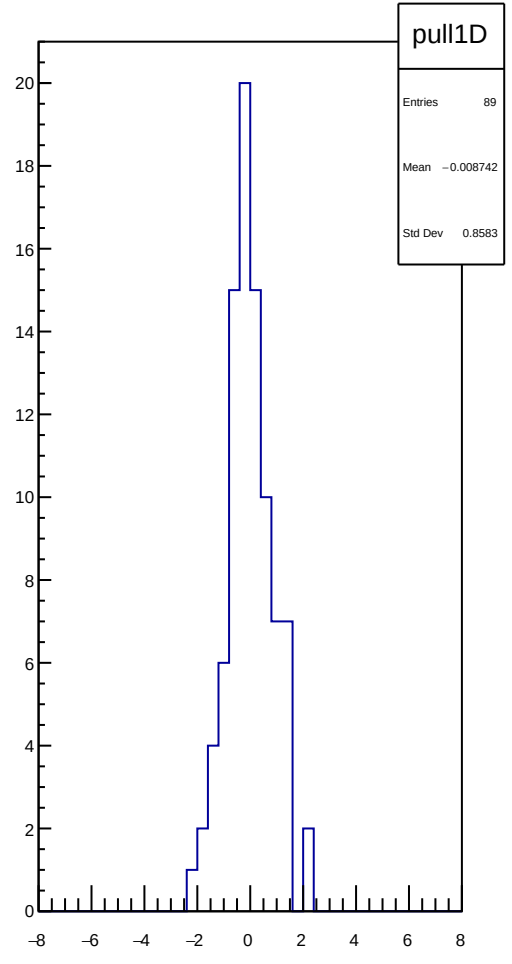

diff_bpmE_11X12X_rms vs run
χ² / ndf 9001 / 88
p0 4.351e+04 ± 33.17
54000
52000
50000
48000
46000
44000
42000
40000
38000

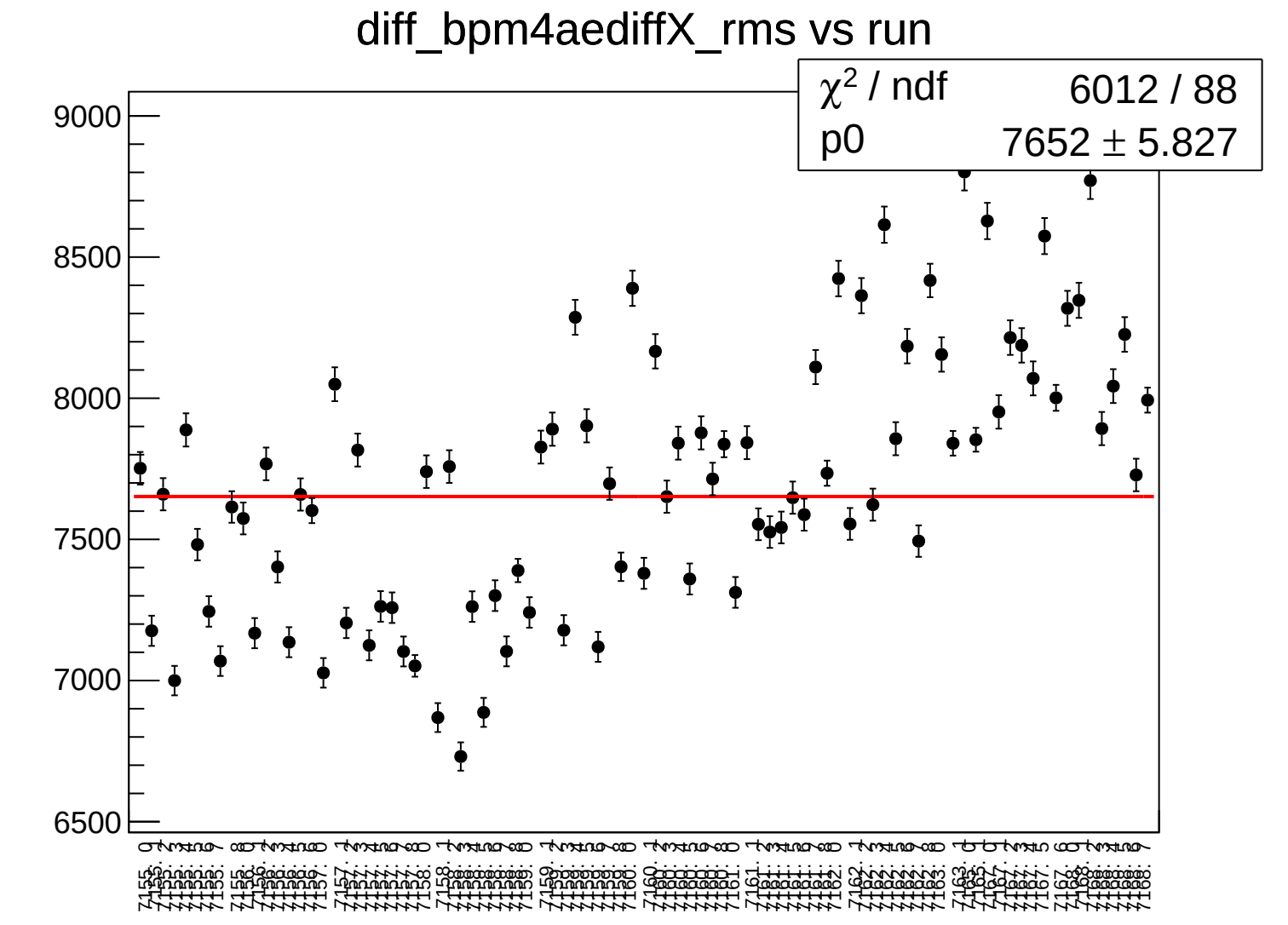

diff_bpm4aesumX_mean vs run
χ² / ndf 65.22 / 88
p0 10.16 ± 11.55
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −109.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

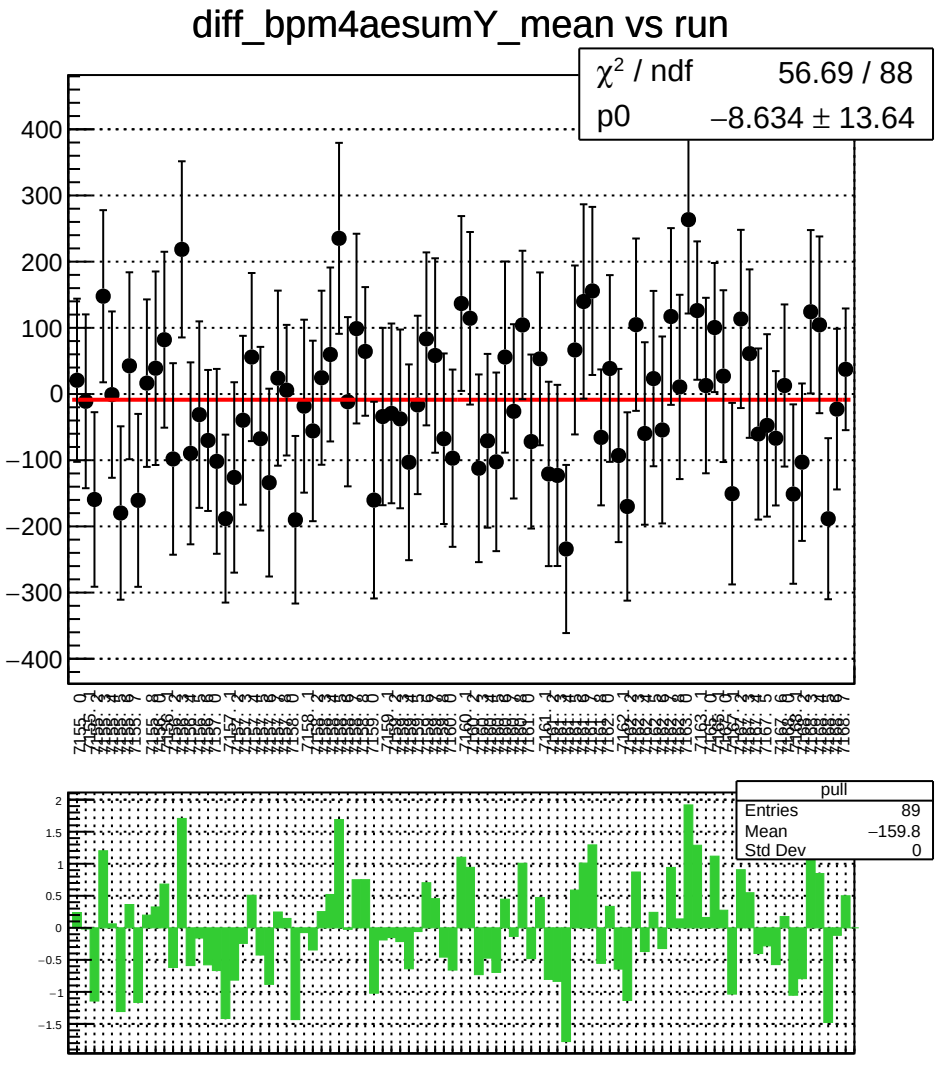

pull1D
Entries 89
Mean 0.007869
Std Dev 0.856
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

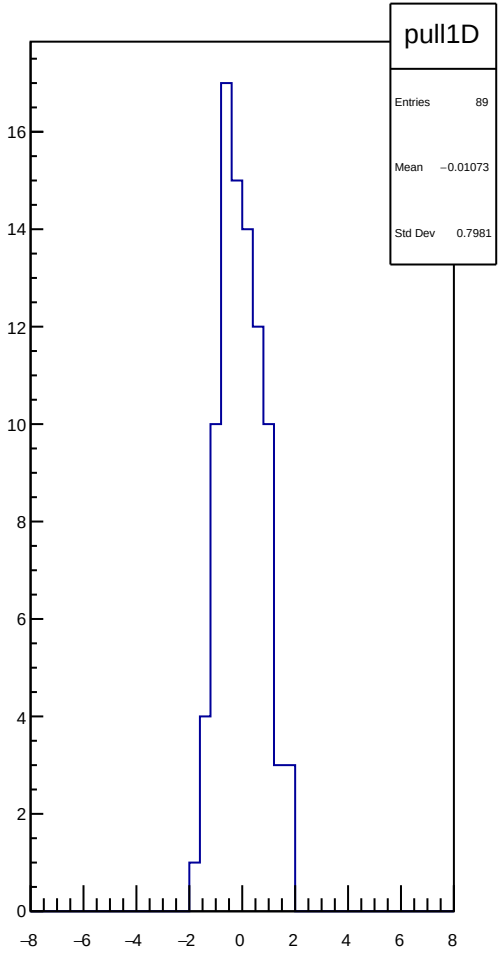

diff_bpm4aesumX_rms vs run
χ² / ndf 6093 / 88
p0 1.072e+04 ± 8.165
12500
12000
11500
11000
10500
10000
9500

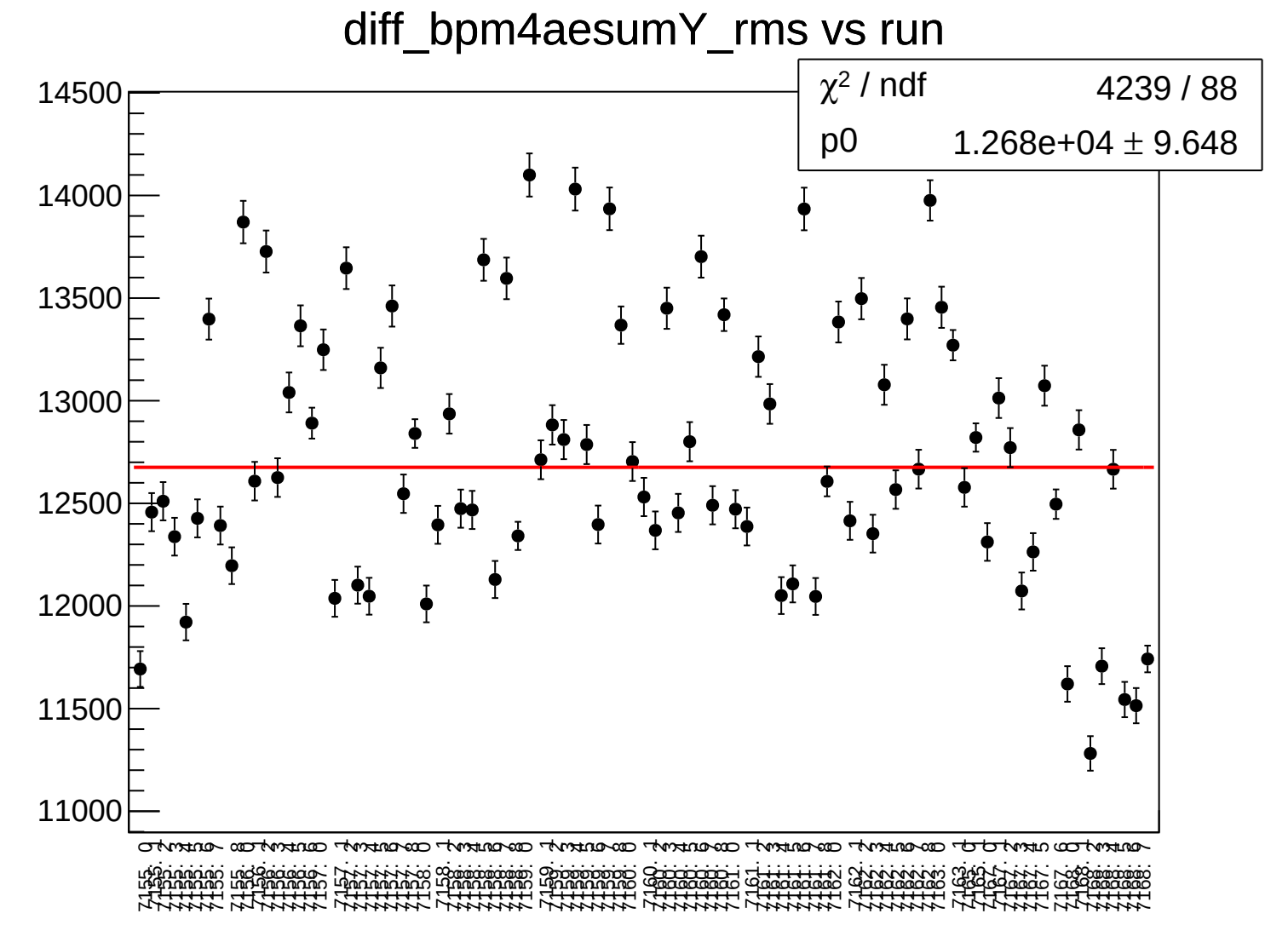

diff_bpm4aediffX_mean vs run
χ² / ndf 65.57 / 88
p0 −7.393 ± 8.241
200
100
0
−100
−200
pull
Entries 89
Mean −86.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

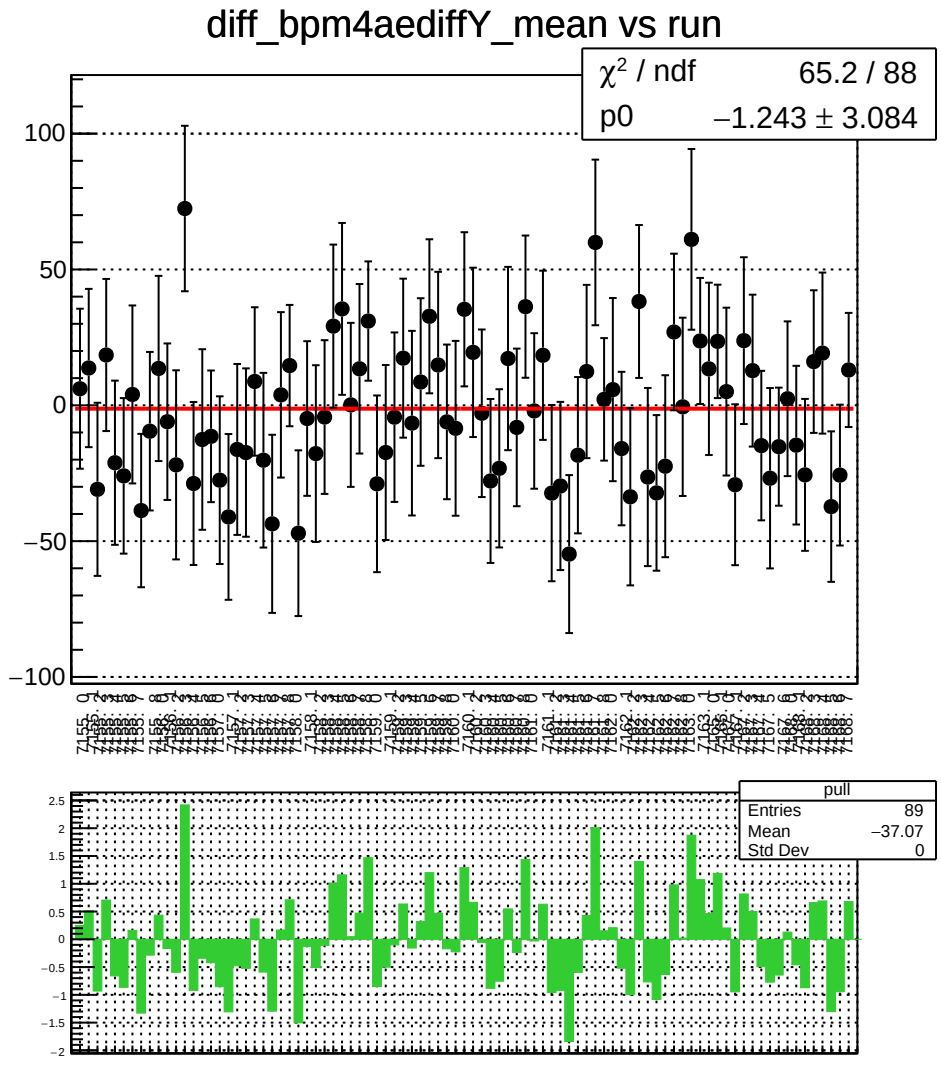

pull1D
Entries 89
Mean −0.008742
Std Dev 0.8583
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

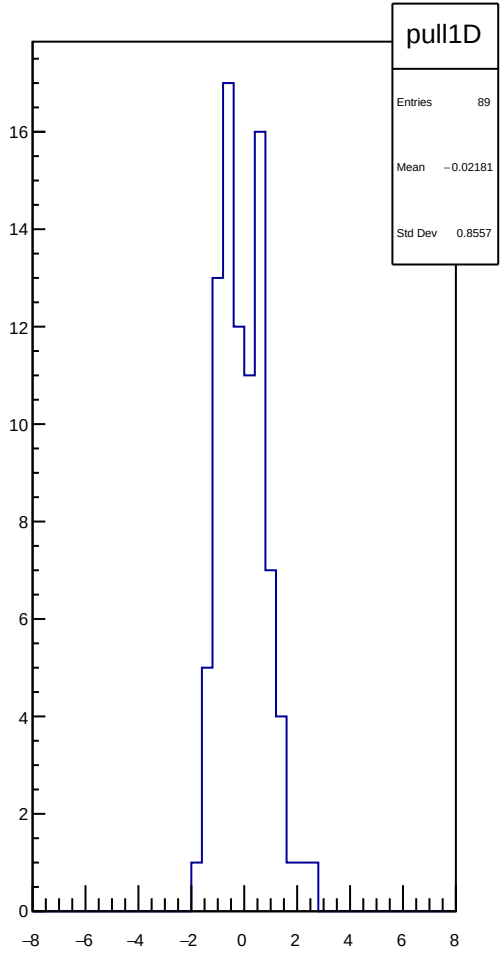

diff_bpm4aediffX_rms vs run
χ² / ndf 6012 / 88
p0 7652 ± 5.827
9000
8500
8000
7500
7000
6500

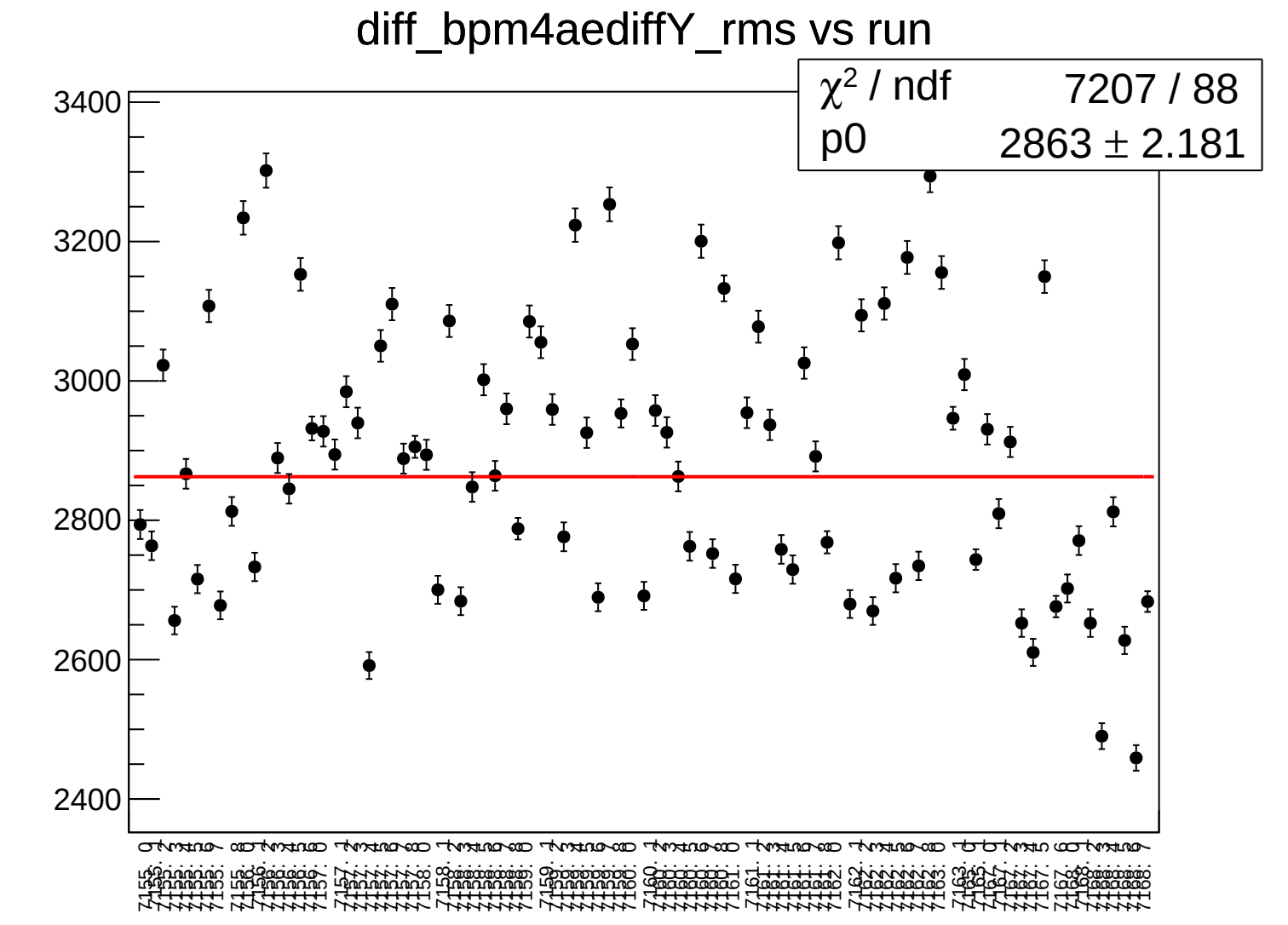

diff_bpm4aesumY_mean vs run
χ² / ndf 56.69 / 88
p0 −8.634 ± 13.64
pull
Entries 89
Mean −159.8
Std Dev 0

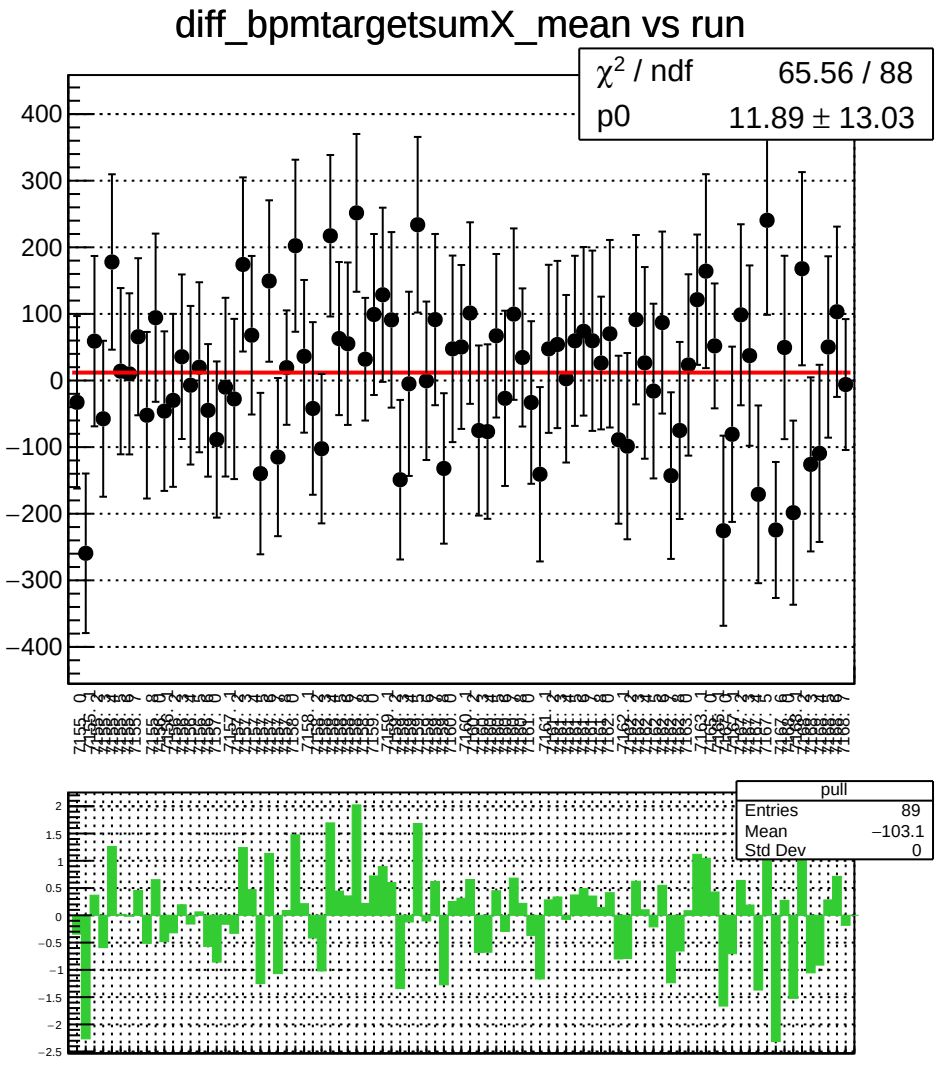

pull1D
Entries 89
Mean −0.01073
Std Dev 0.7981

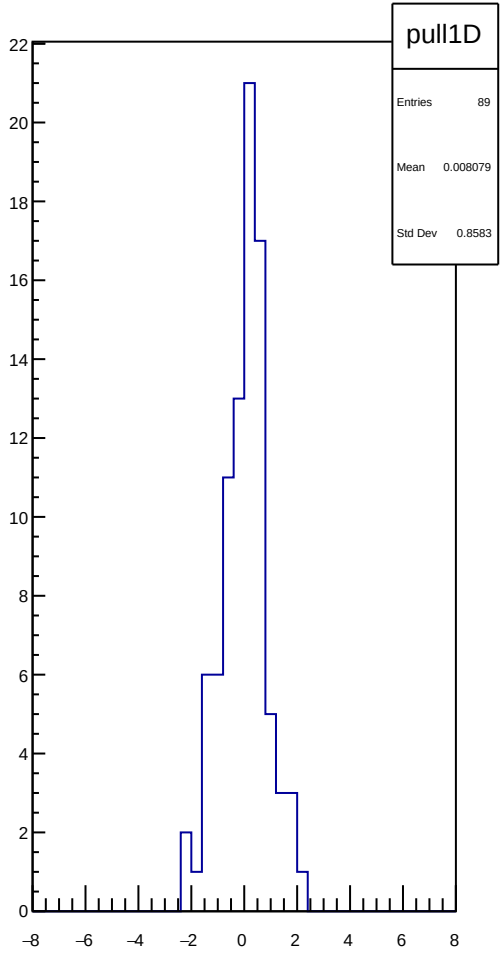

diff_bpm4aesumY_rms vs run
χ² / ndf 4239 / 88
p0 1.268e+04 ± 9.648
14500
14000
13500
13000
12500
12000
11500
11000

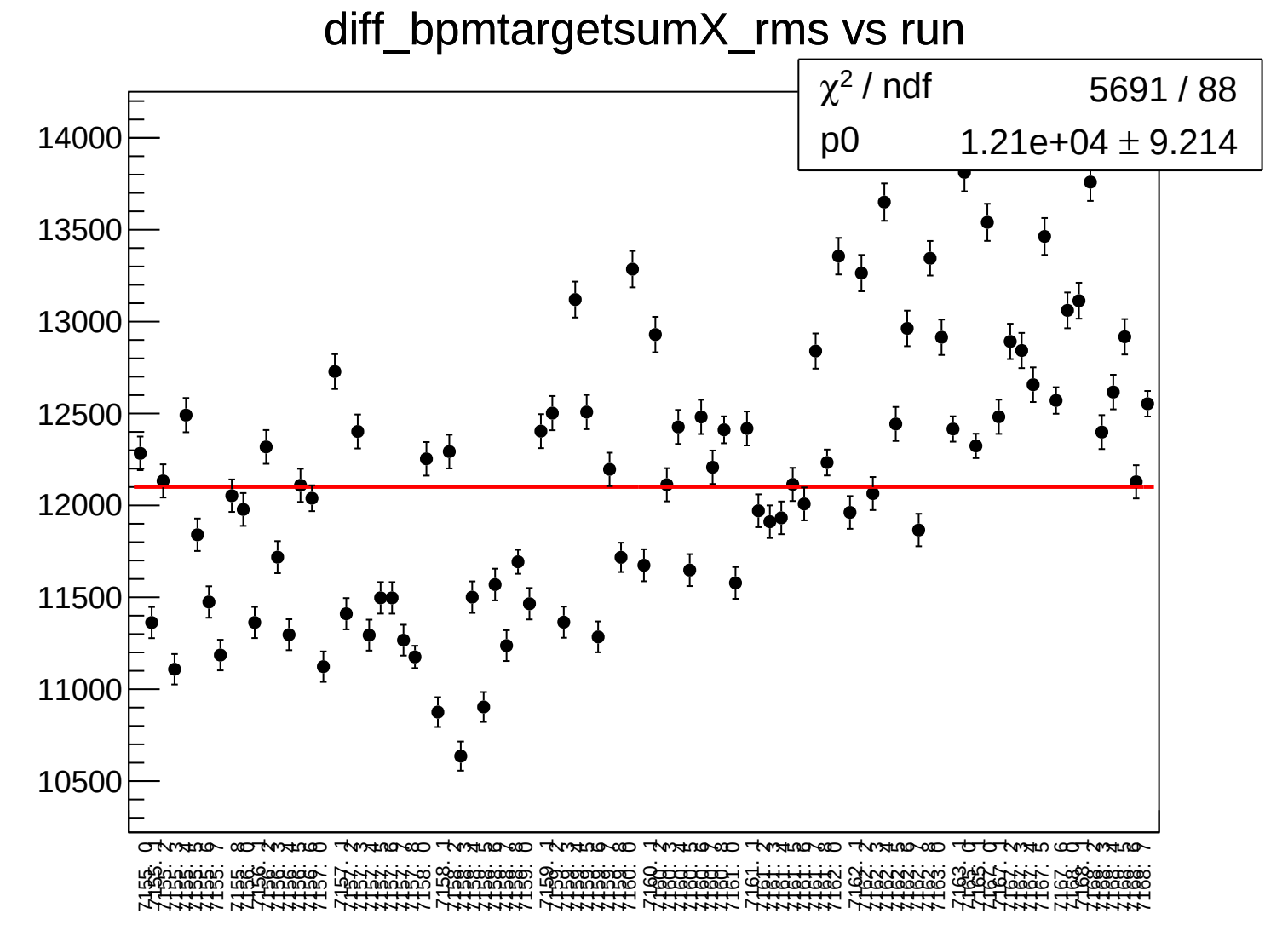

diff_bpm4aediffY_mean vs run
χ² / ndf 65.2 / 88
p0 −1.243 ± 3.084
100
50
0
−50
−100
pull
Entries 89
Mean −37.07
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

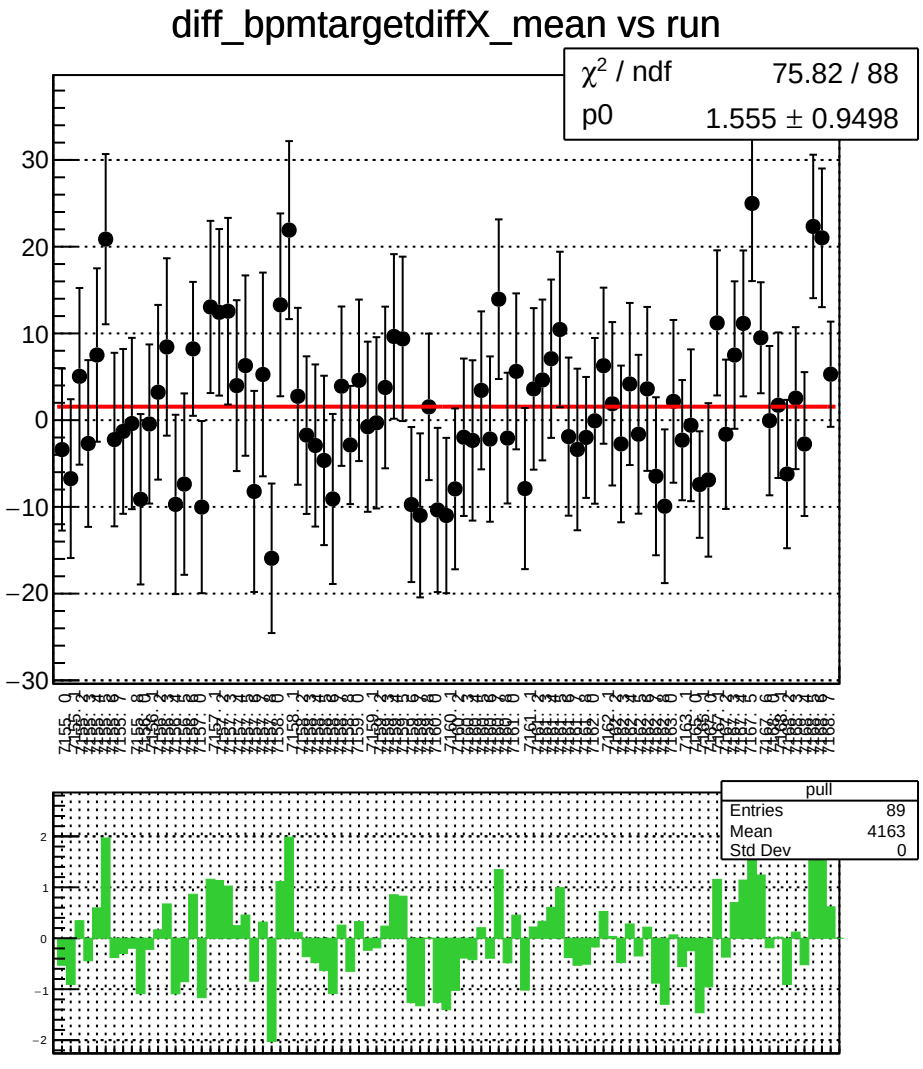

pull1D
Entries 89
Mean −0.02181
Std Dev 0.8557
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

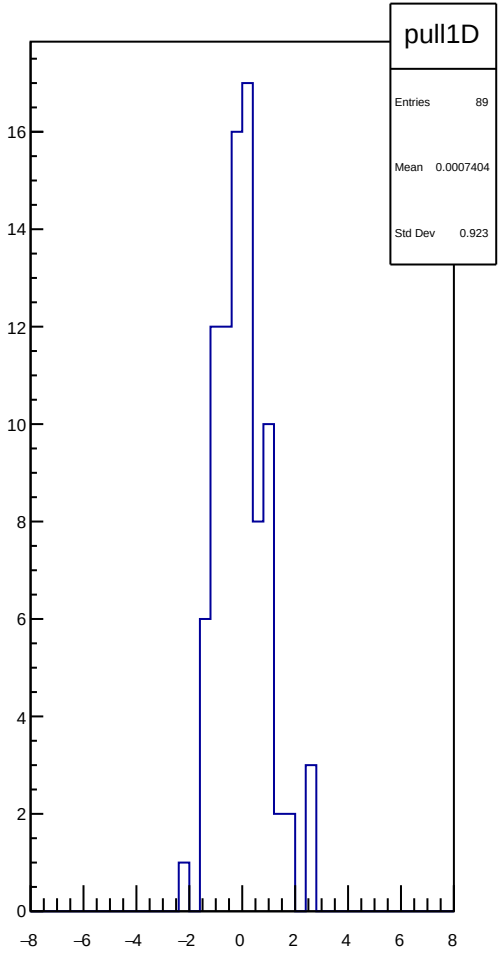

diff_bpm4aediffY_rms vs run
χ² / ndf 7207 / 88
p0 2863 ± 2.181
3400
3200
3000
2800
2600
2400

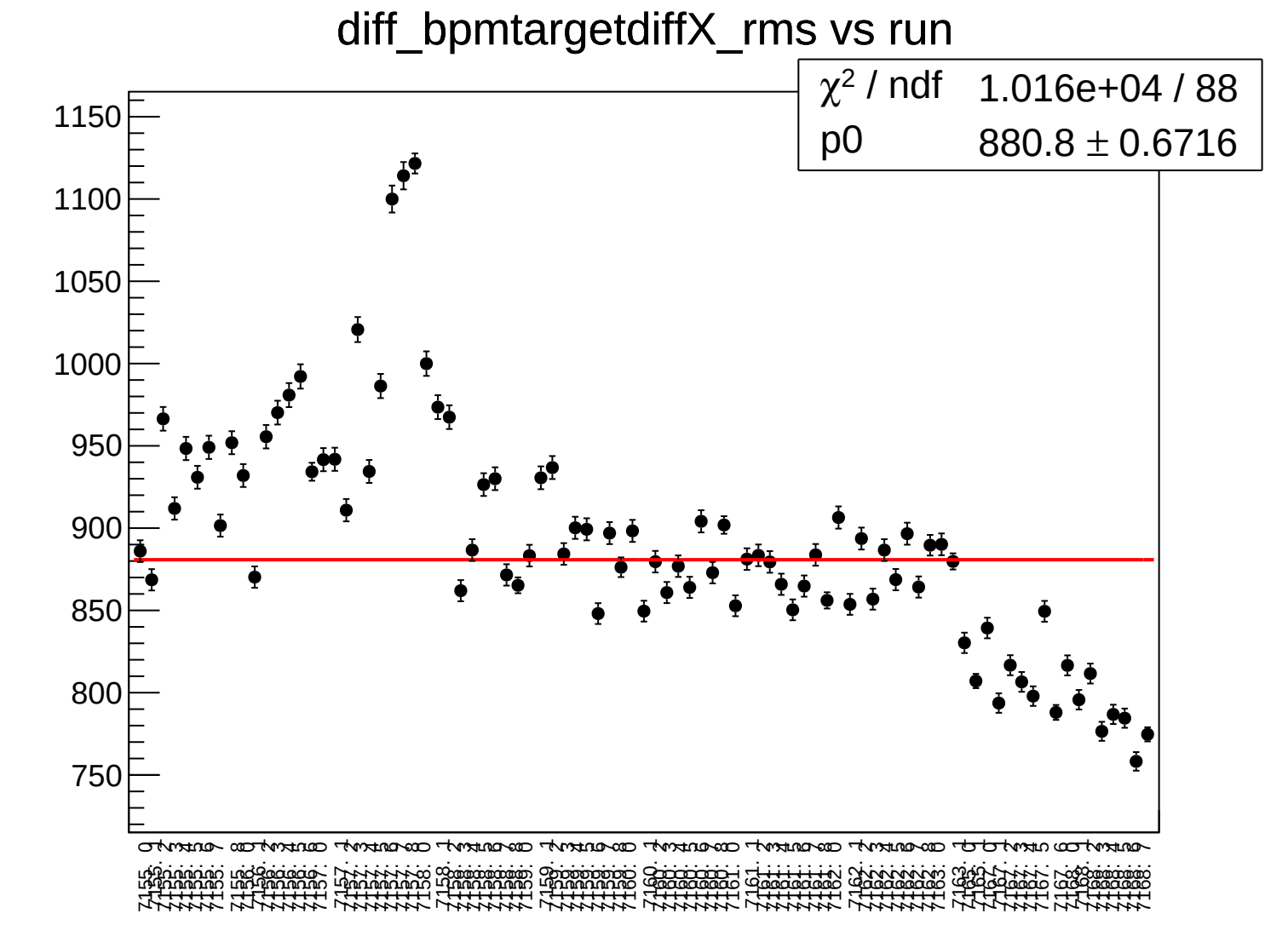

diff_bpmtargetsumX_mean vs run
χ² / ndf 65.56 / 88
p0 11.89 ± 13.03
pull
Entries 89
Mean −103.1
Std Dev 0

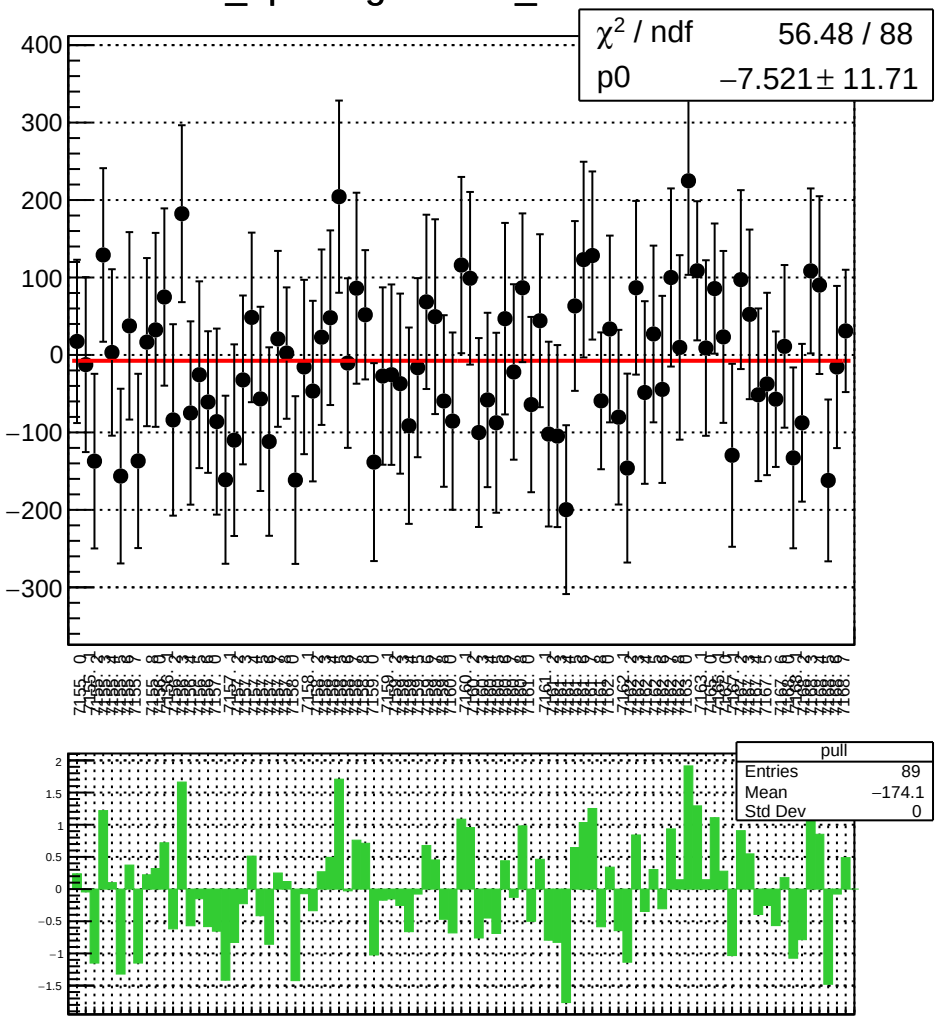

pull1D
Entries 89
Mean 0.008079
Std Dev 0.8583

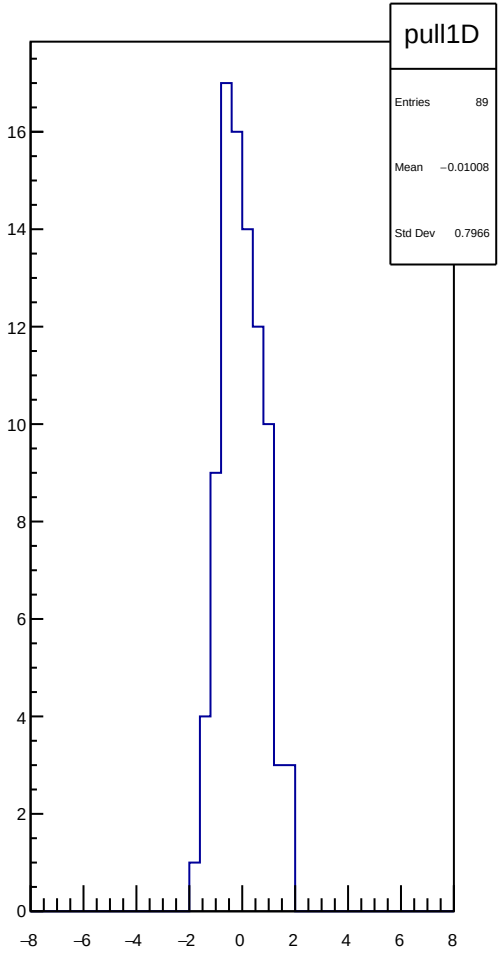

diff_bpmtargetsumX_rms vs run
χ² / ndf 5691 / 88
p0 1.21e+04 ± 9.214
14000
13500
13000
12500
12000
11500
11000
10500

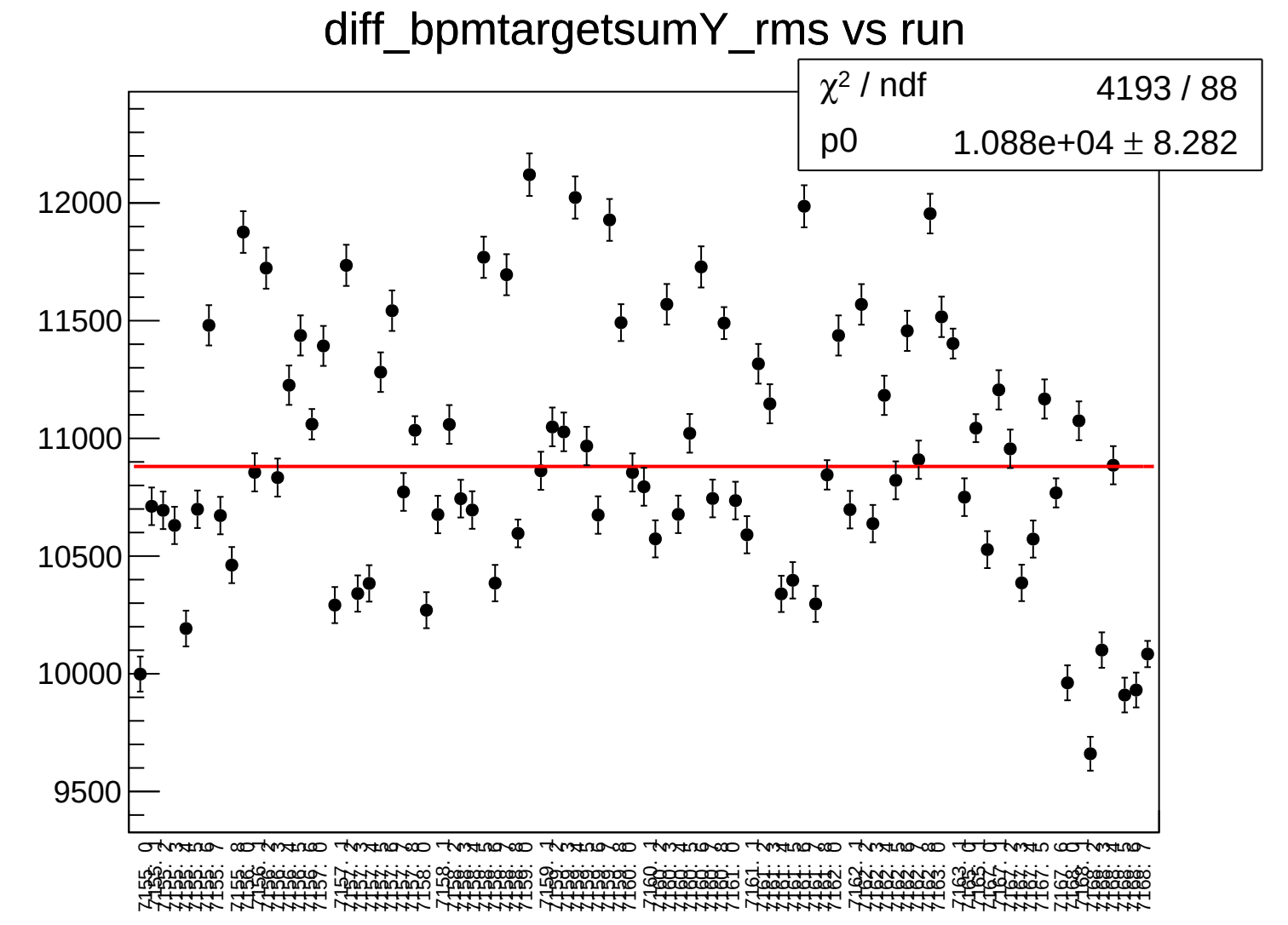

diff_bpmtargetdiffX_mean vs run
χ² / ndf 75.82 / 88
p0 1.555 ± 0.9498
pull
Entries 89
Mean 4163
Std Dev 0

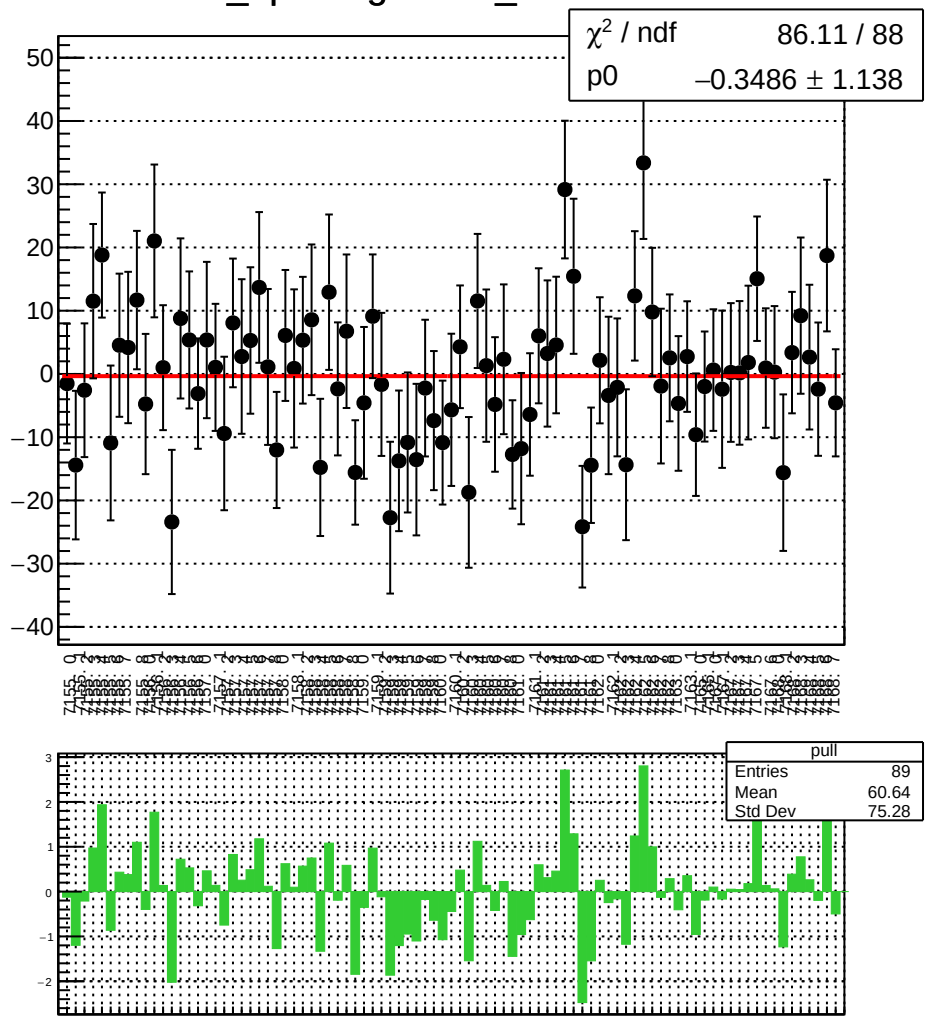

pull1D
Entries 89
Mean 0.0007404
Std Dev 0.923

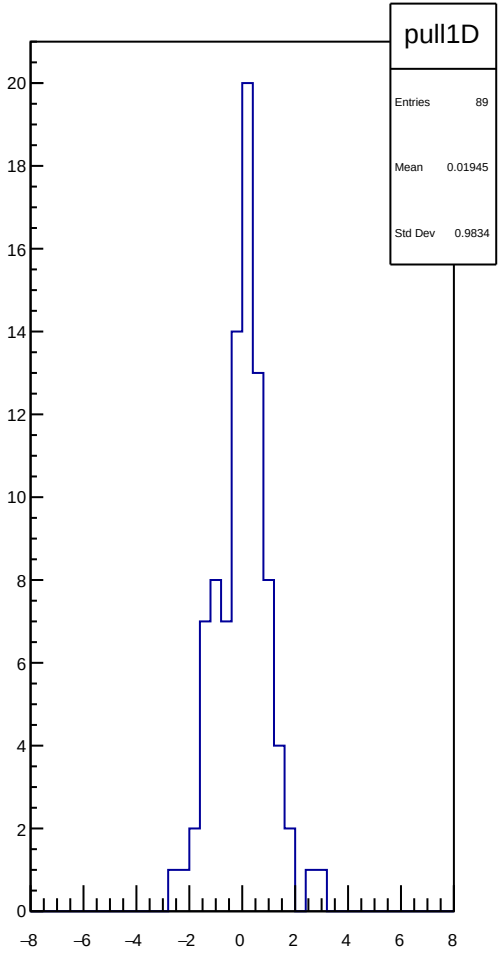

diff_bpmtargetdiffX_rms vs run
χ² / ndf 1.016e+04 / 88
p0 880.8 ± 0.6716
1150
1100
1050
1000
950
900
850
800
750

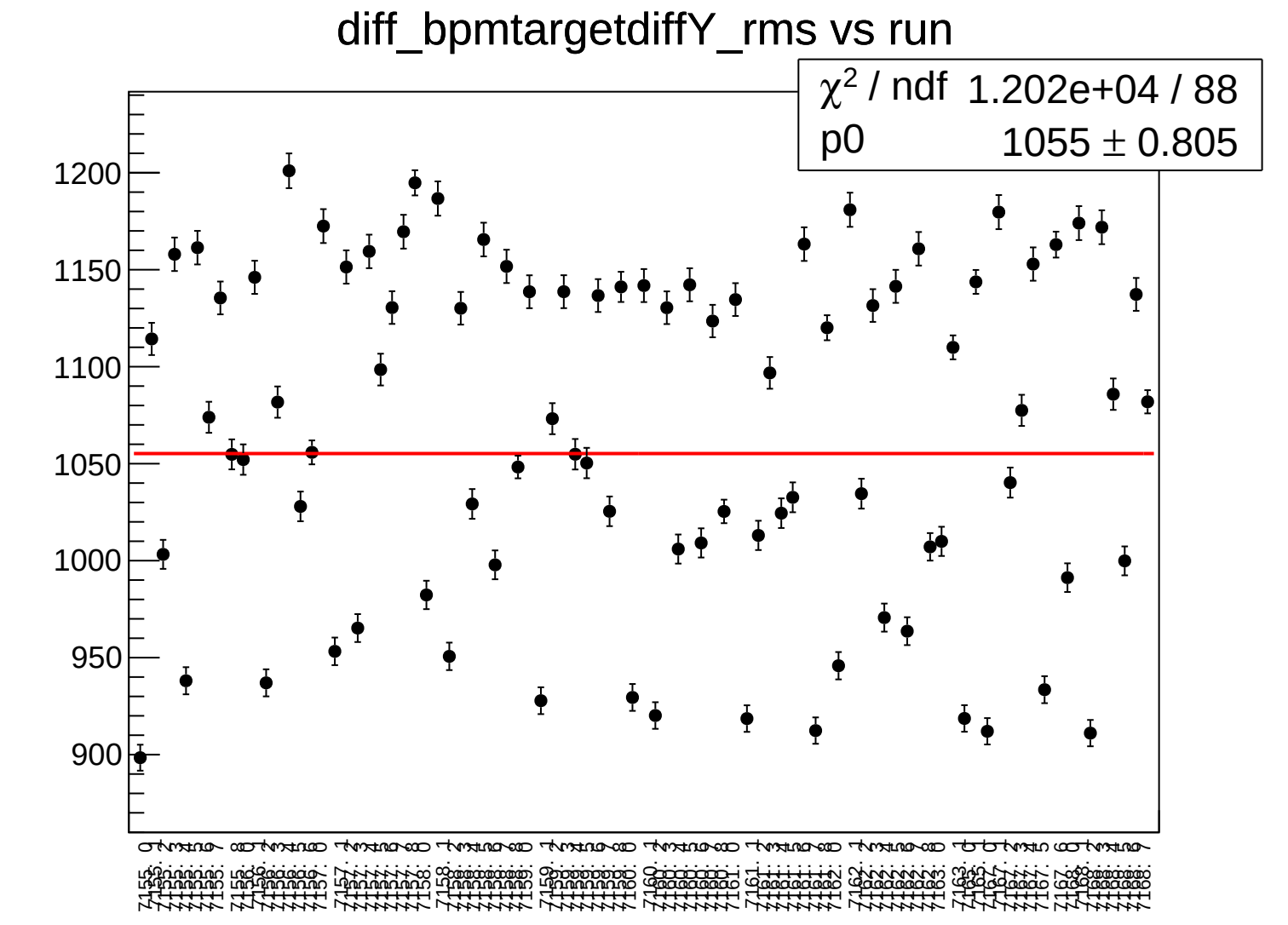

diff_bpmtargetsumY_mean vs run
χ² / ndf 56.48 / 88
p0 −7.521 ± 11.71
pull
Entries 89
Mean −174.1
Std Dev 0

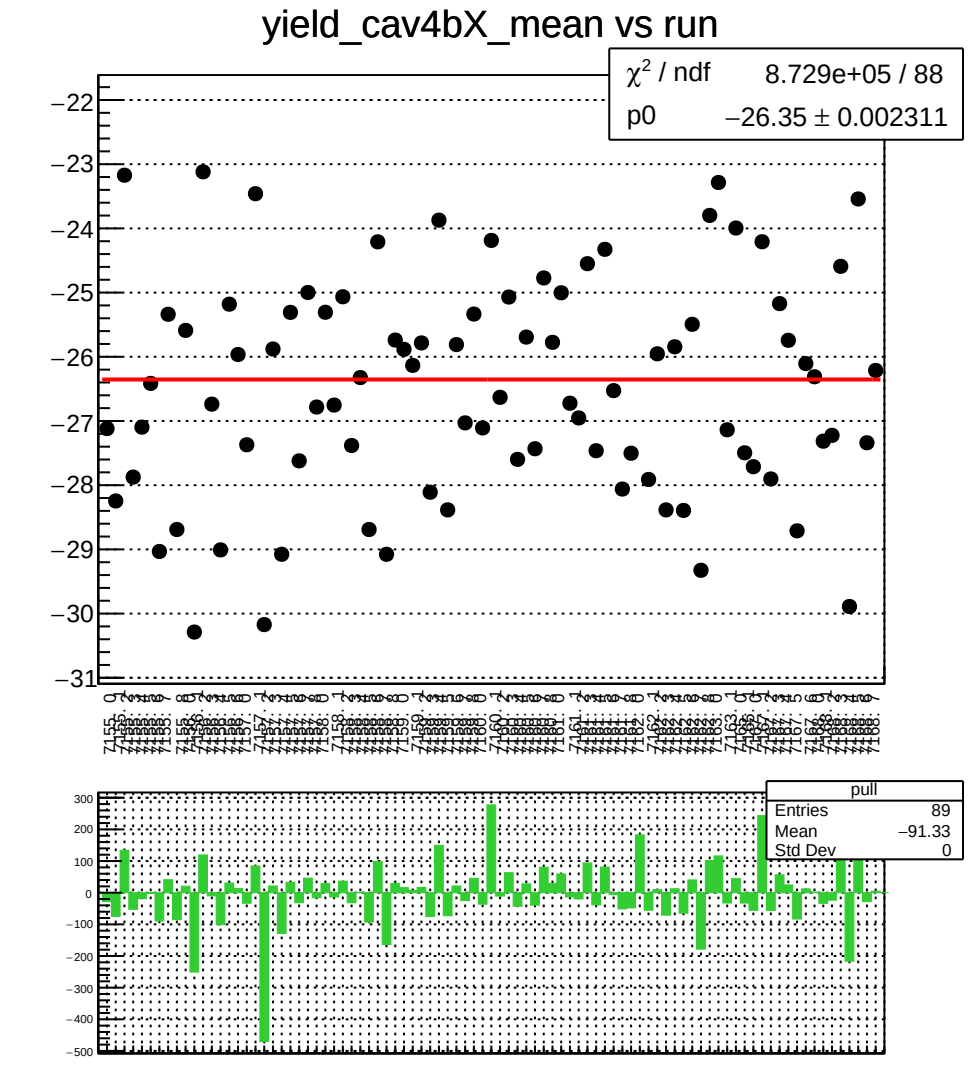

pull1D
Entries 89
Mean −0.01008
Std Dev 0.7966

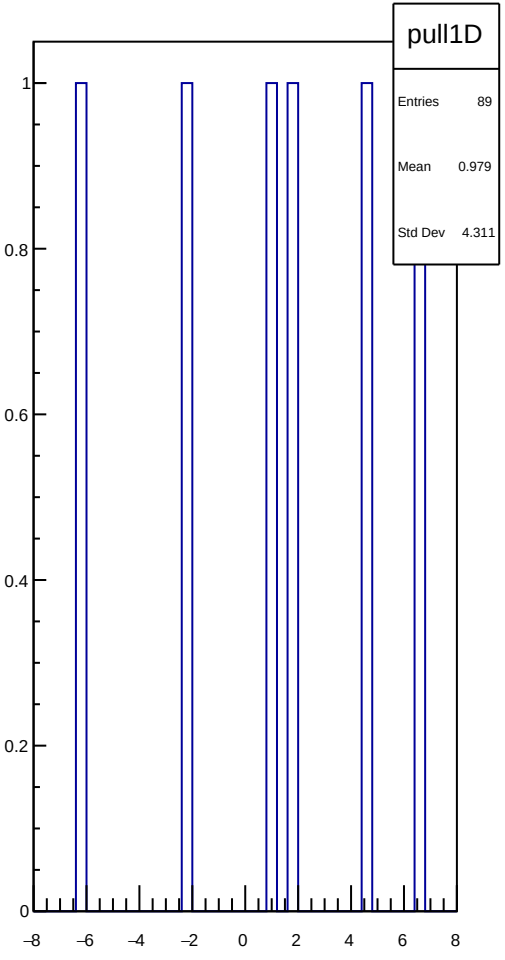

diff_bpmtargetsumY_rms vs run
χ² / ndf 4193 / 88
p0 1.088e+04 ± 8.282
12000
11500
11000
10500
10000
9500

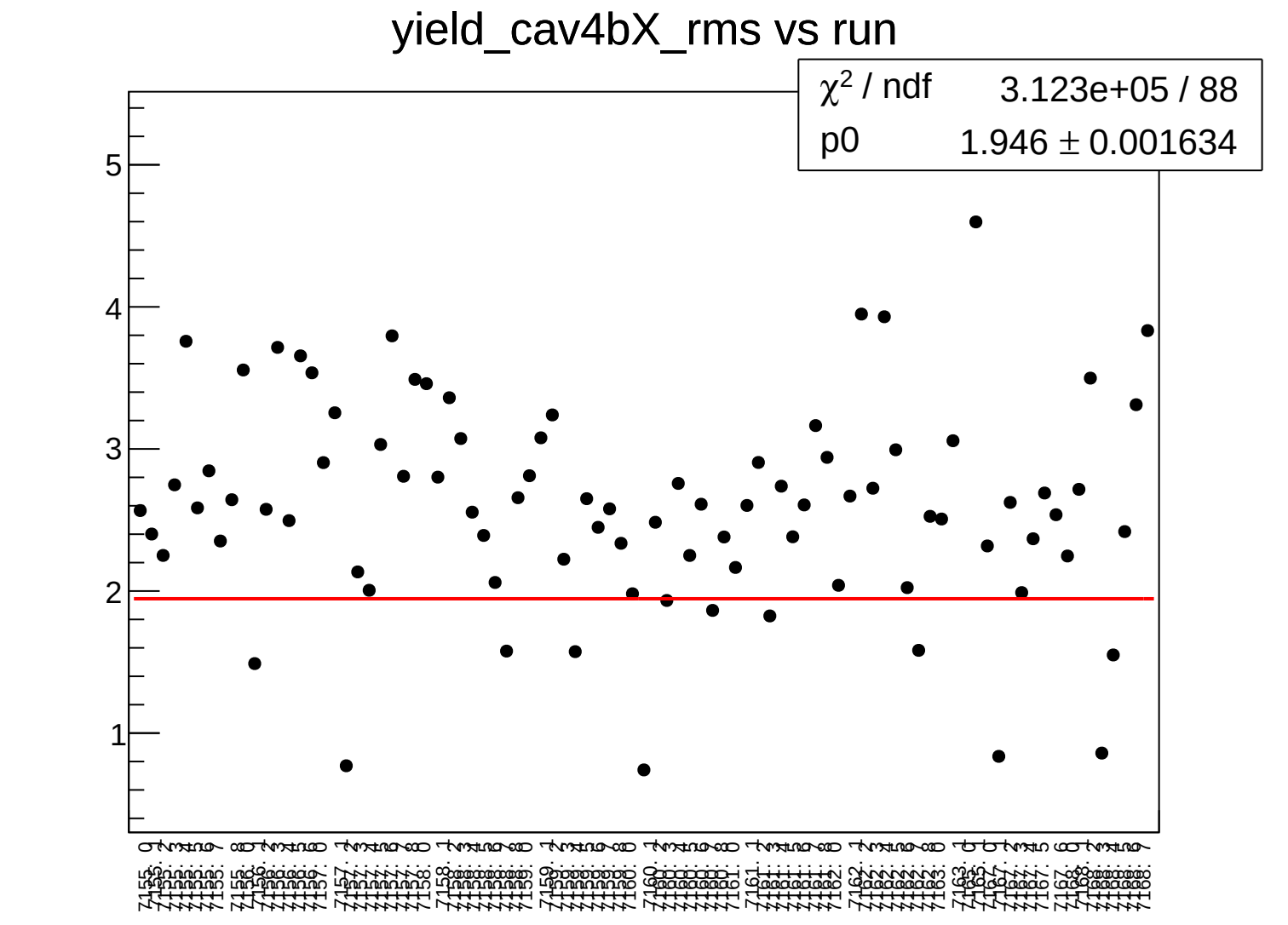

diff_bpmtargetdiffY_mean vs run
χ² / ndf 86.11 / 88
p0 −0.3486 ± 1.138
pull
Entries 89
Mean 60.64
Std Dev 75.28

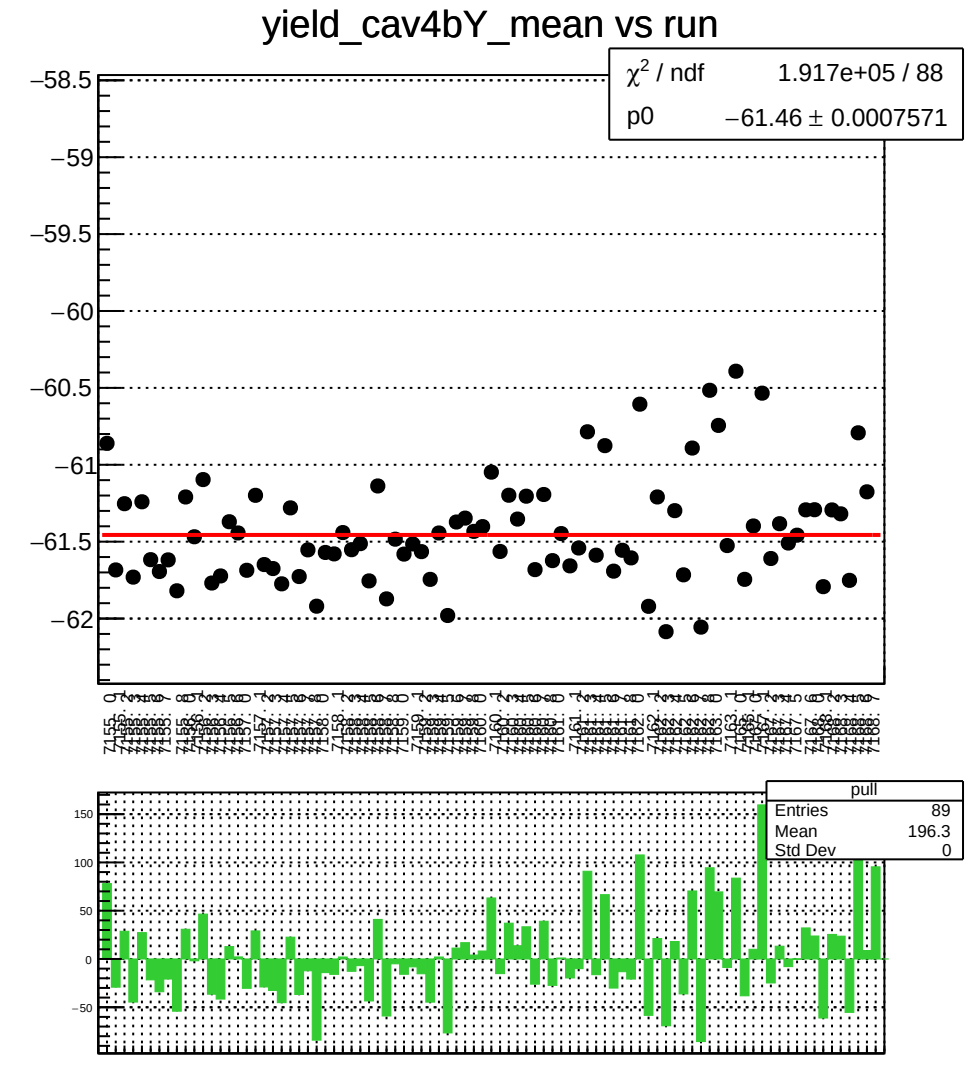

pull1D
Entries 89
Mean 0.01945
Std Dev 0.9834

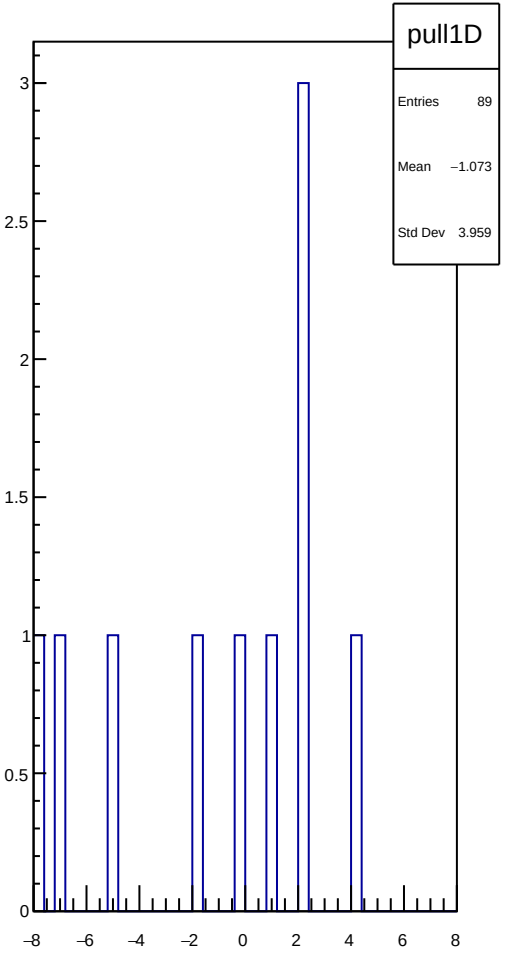

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1.202e+04 / 88
p0 1055 ± 0.805
1200
1150
1100
1050
1000
950
900

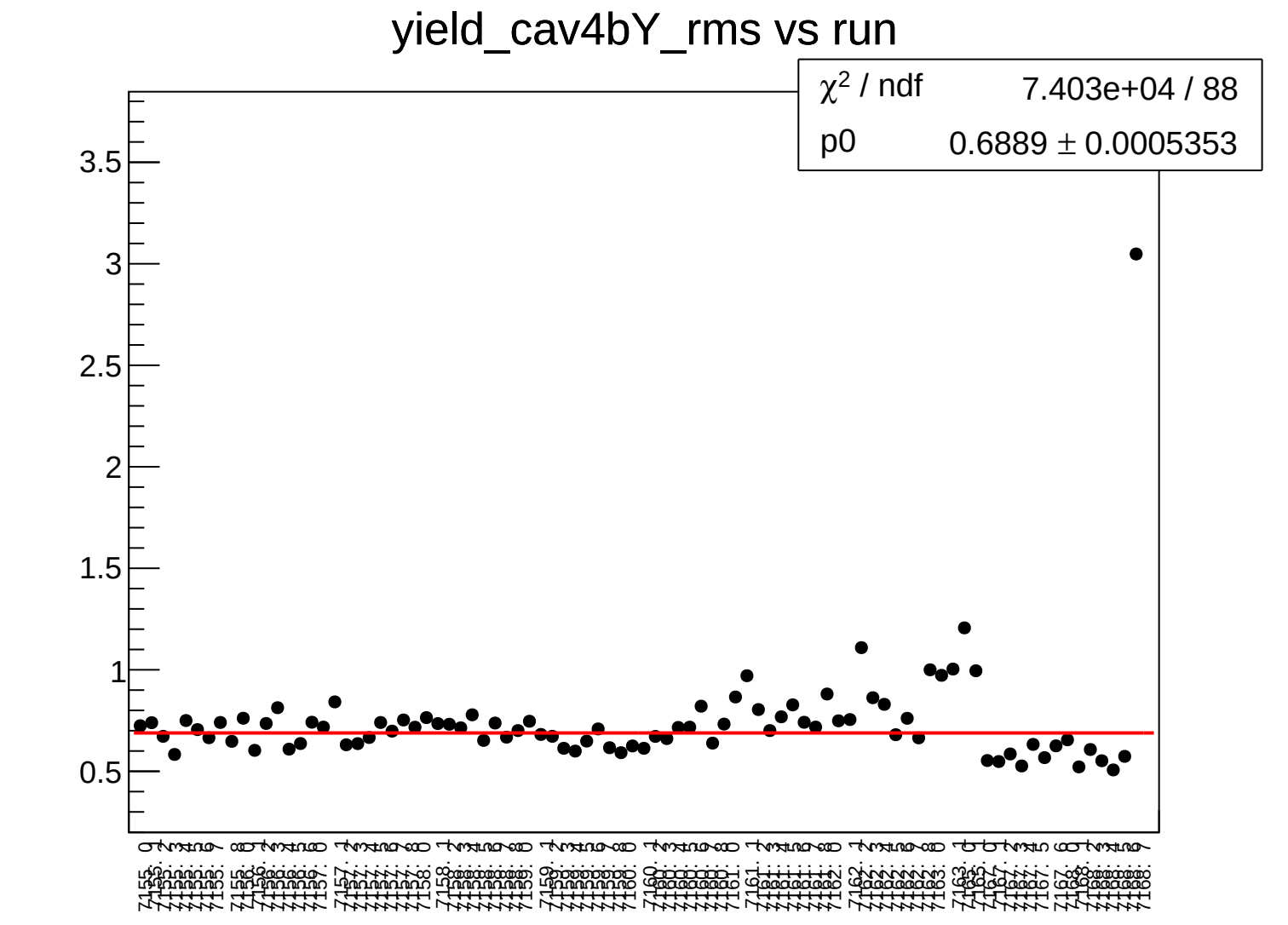

yield_cav4bX_mean vs run
χ² / ndf 8.729e+05 / 88
p0 −26.35 ± 0.002311
pull
Entries 89
Mean −91.33
Std Dev 0

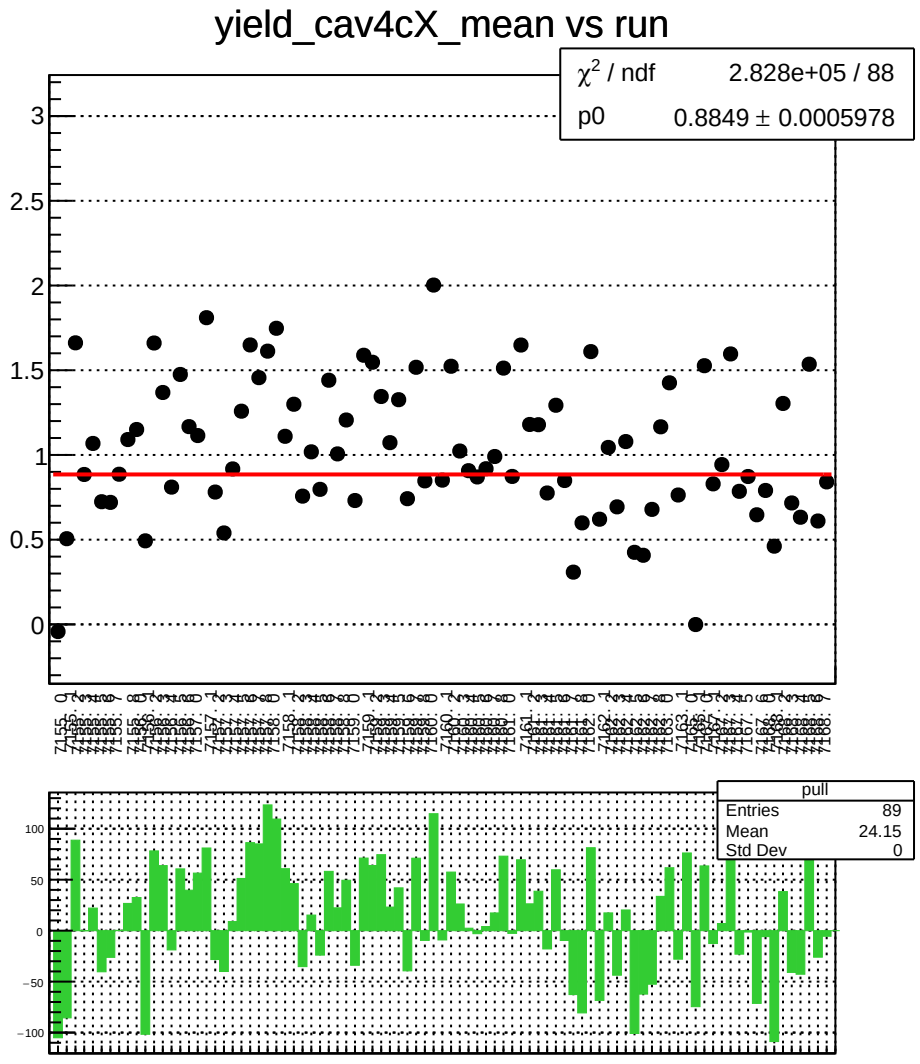

pull1D
Entries 89
Mean 0.979
Std Dev 4.311

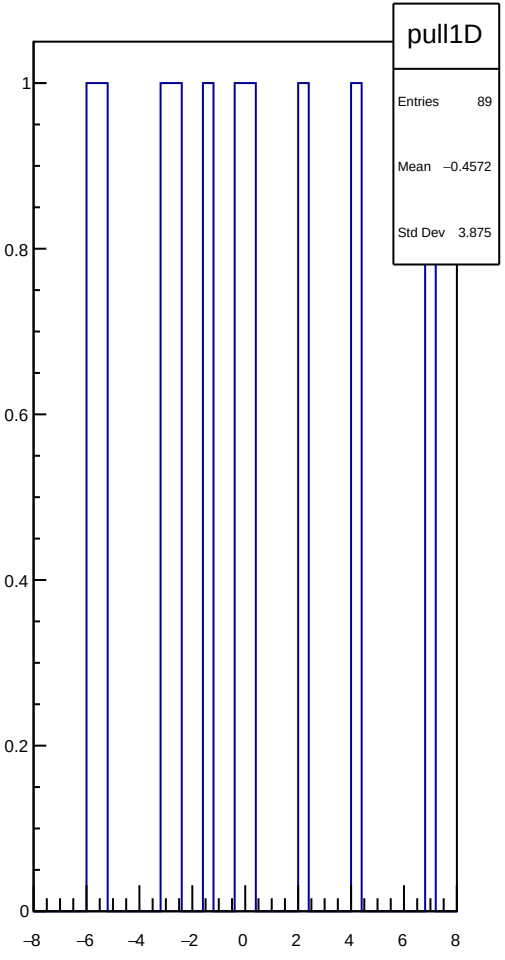

yield_cav4bX_rms vs run
χ^2 / ndf 3.123e+05 / 88
p0 1.946 ± 0.001634
5
4
3
2
1

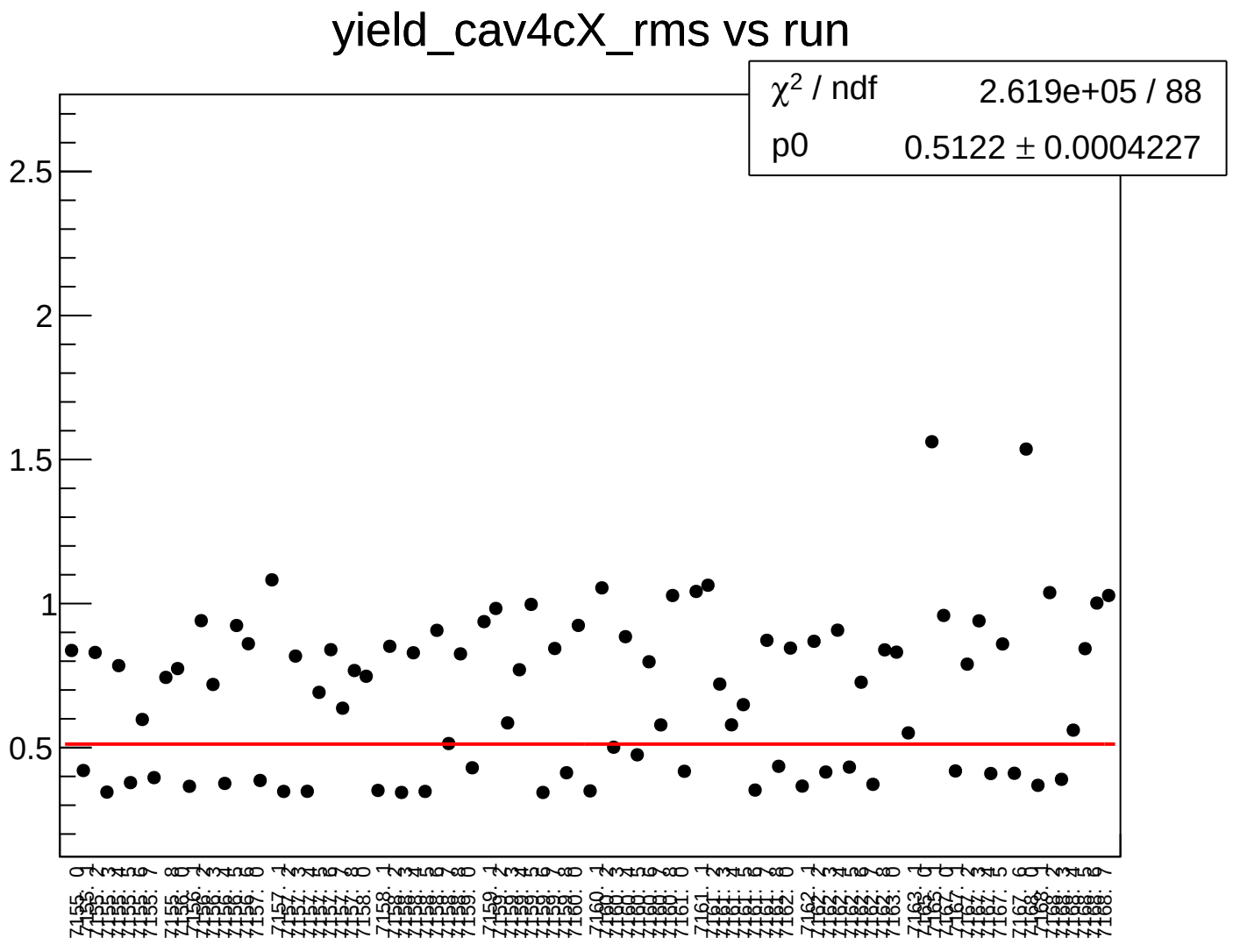

yield_cav4bY_mean vs run
χ² / ndf 1.917e+05 / 88
p0 −61.46 ± 0.0007571
−58.5
−59
−59.5
−60
−60.5
−61
−61.5
−62
pull
Entries 89
Mean 196.3
Std Dev 0
150
100
50
0
−50

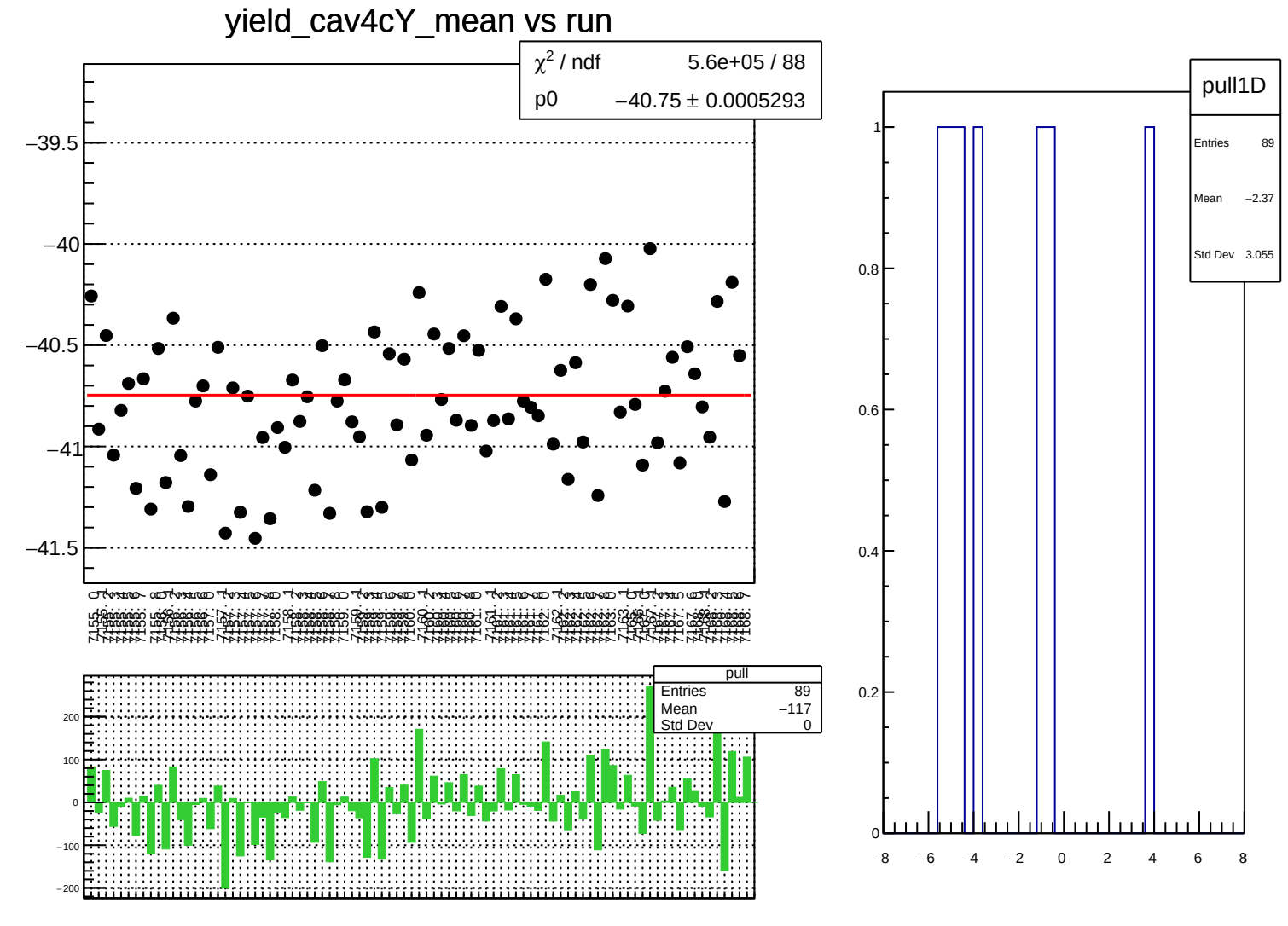

pull1D
Entries 89
Mean −1.073
Std Dev 3.959
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

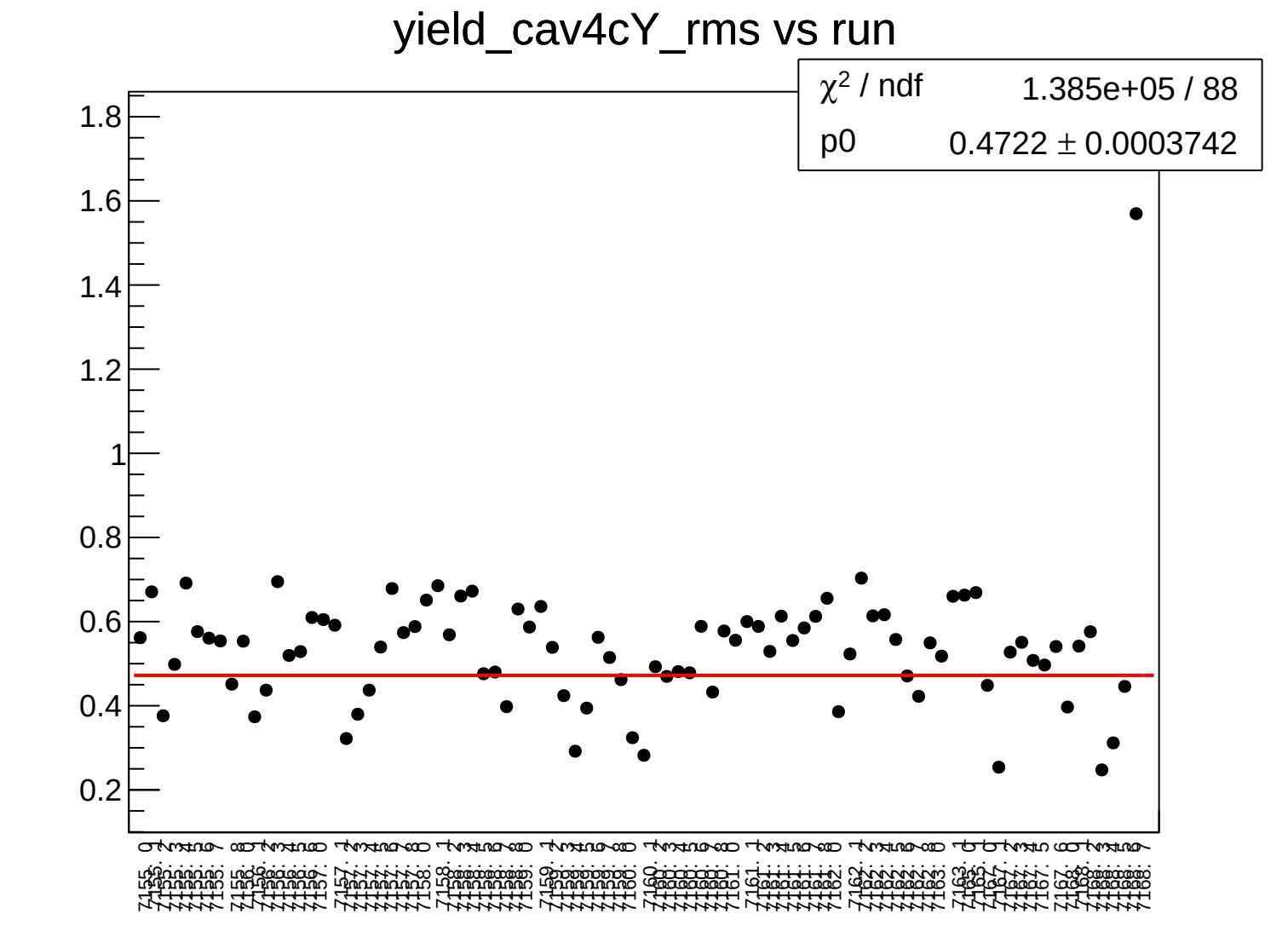

yield_cav4bY_rms vs run
χ² / ndf 7.403e+04 / 88
p0 0.6889 ± 0.0005353
3.5
3
2.5
2
1.5
1
0.5

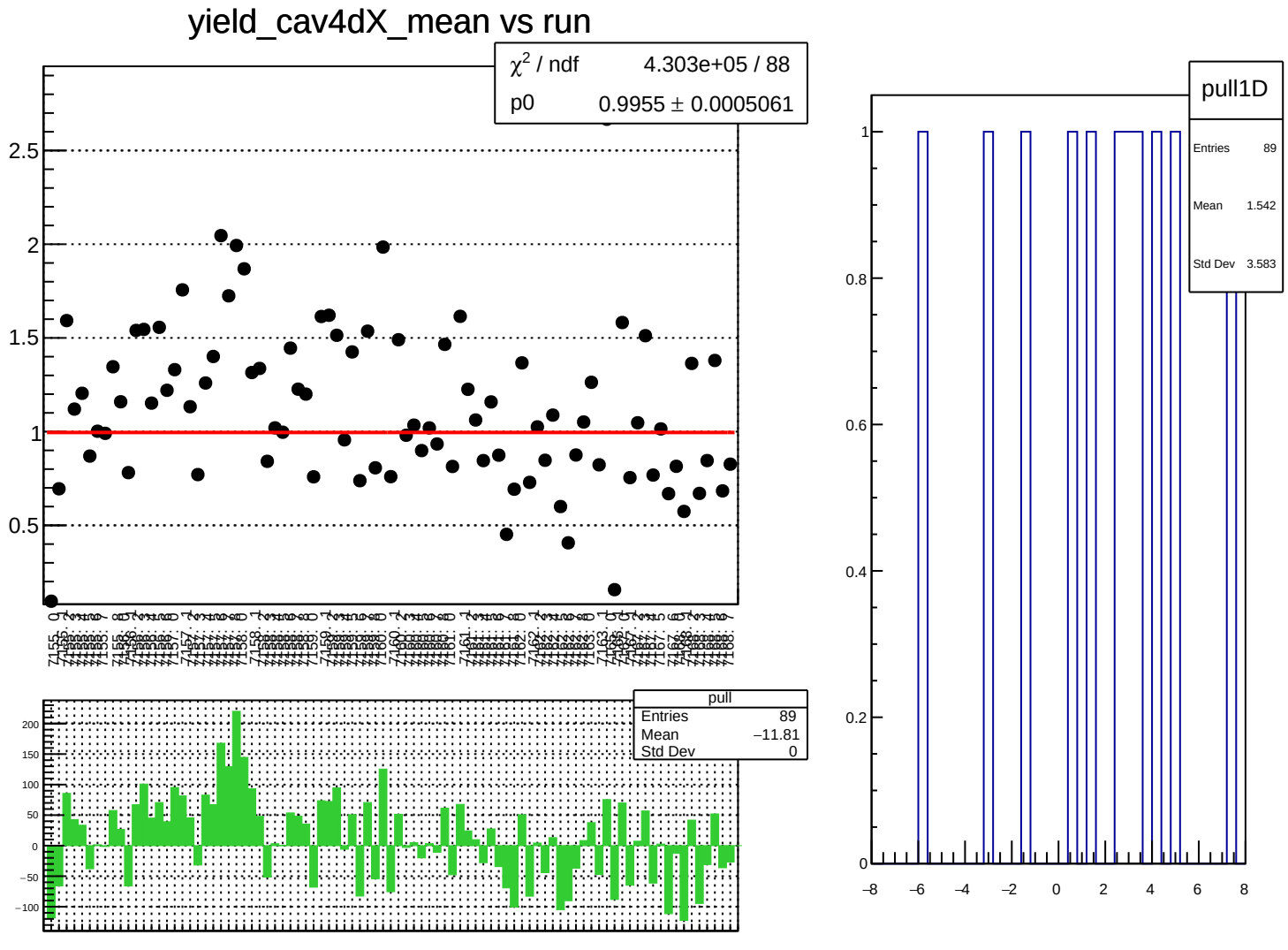

yield_cav4cX_mean vs run
χ² / ndf 2.828e+05 / 88
p0 0.8849 ± 0.0005978
pull
Entries 89
Mean 24.15
Std Dev 0

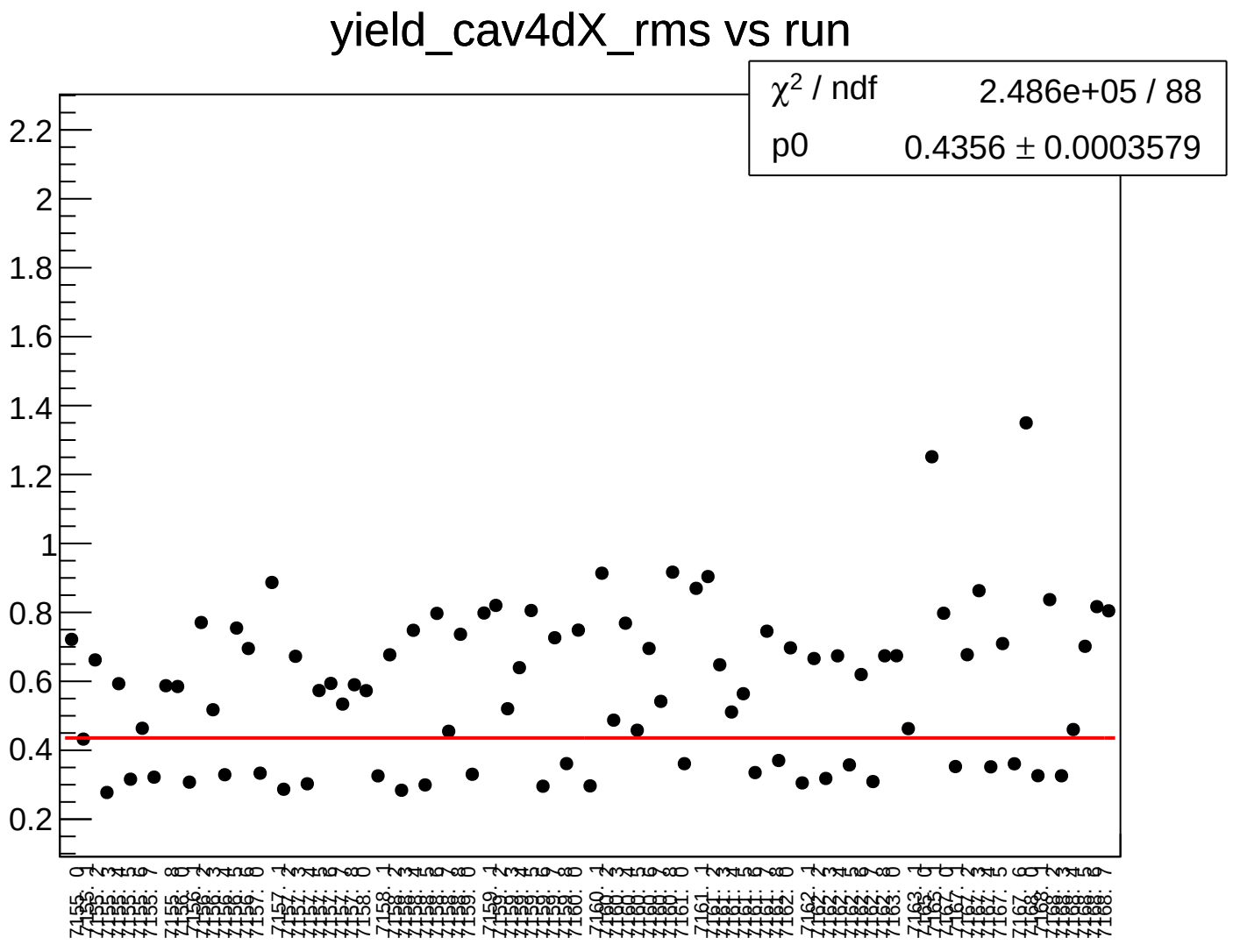

pull1D
Entries 89
Mean −0.4572
Std Dev 3.875

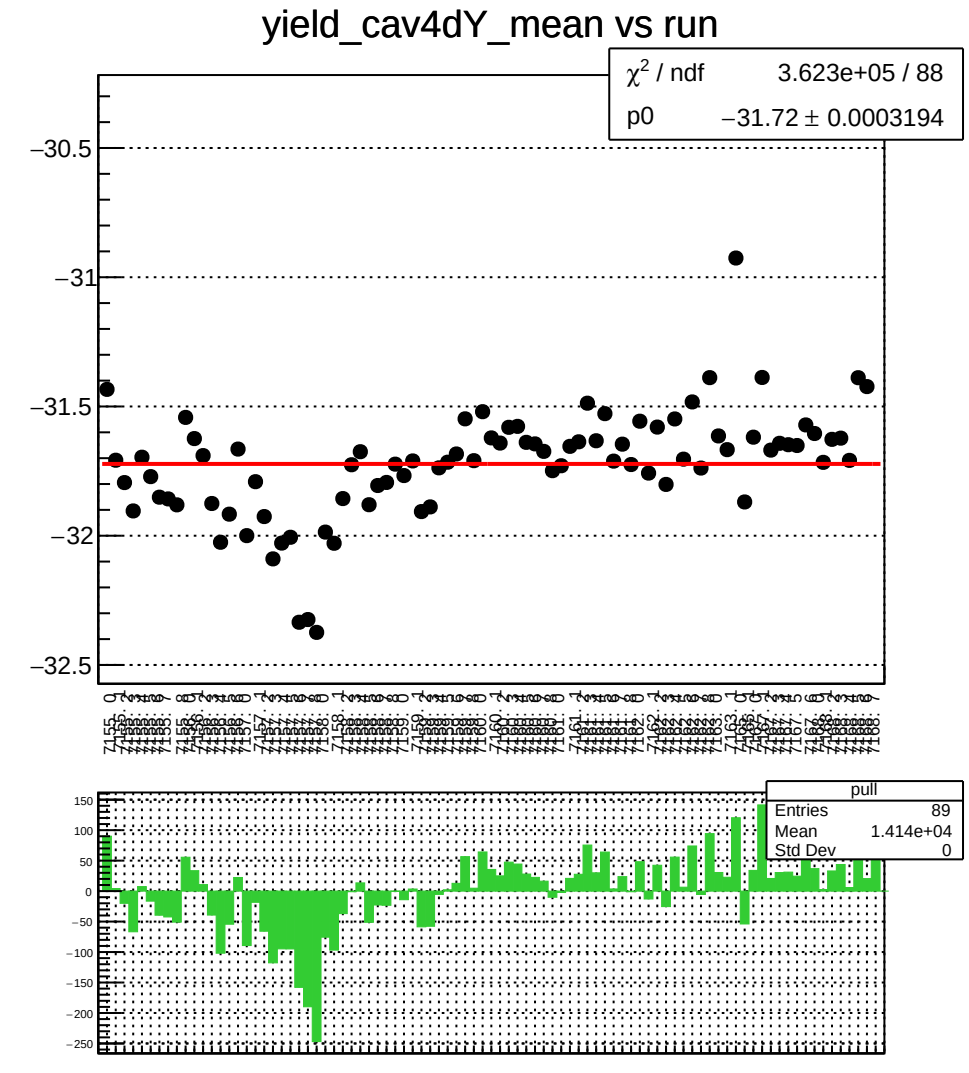

yield_cav4cX_rms vs run
χ² / ndf 2.619e+05 / 88
p0 0.5122 ± 0.0004227
2.5
2
1.5
1
0.5

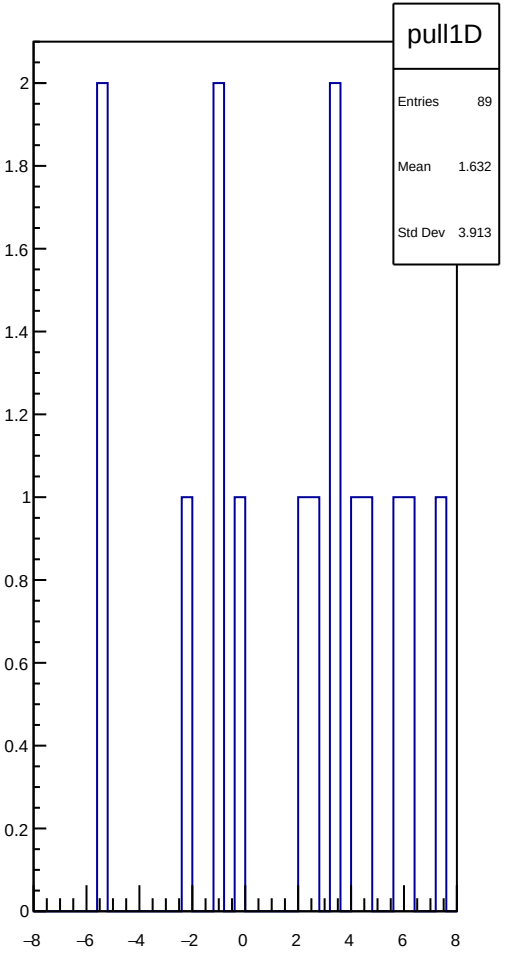

yield_cav4cY_mean vs run
χ² / ndf 5.6e+05 / 88
p0 −40.75 ± 0.0005293
−39.5
−40
−40.5
−41
−41.5
pull
Entries 89
Mean −117
Std Dev 0
200
100
0
−100
−200
pull1D
Entries 89
Mean −2.37
Std Dev 3.055
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

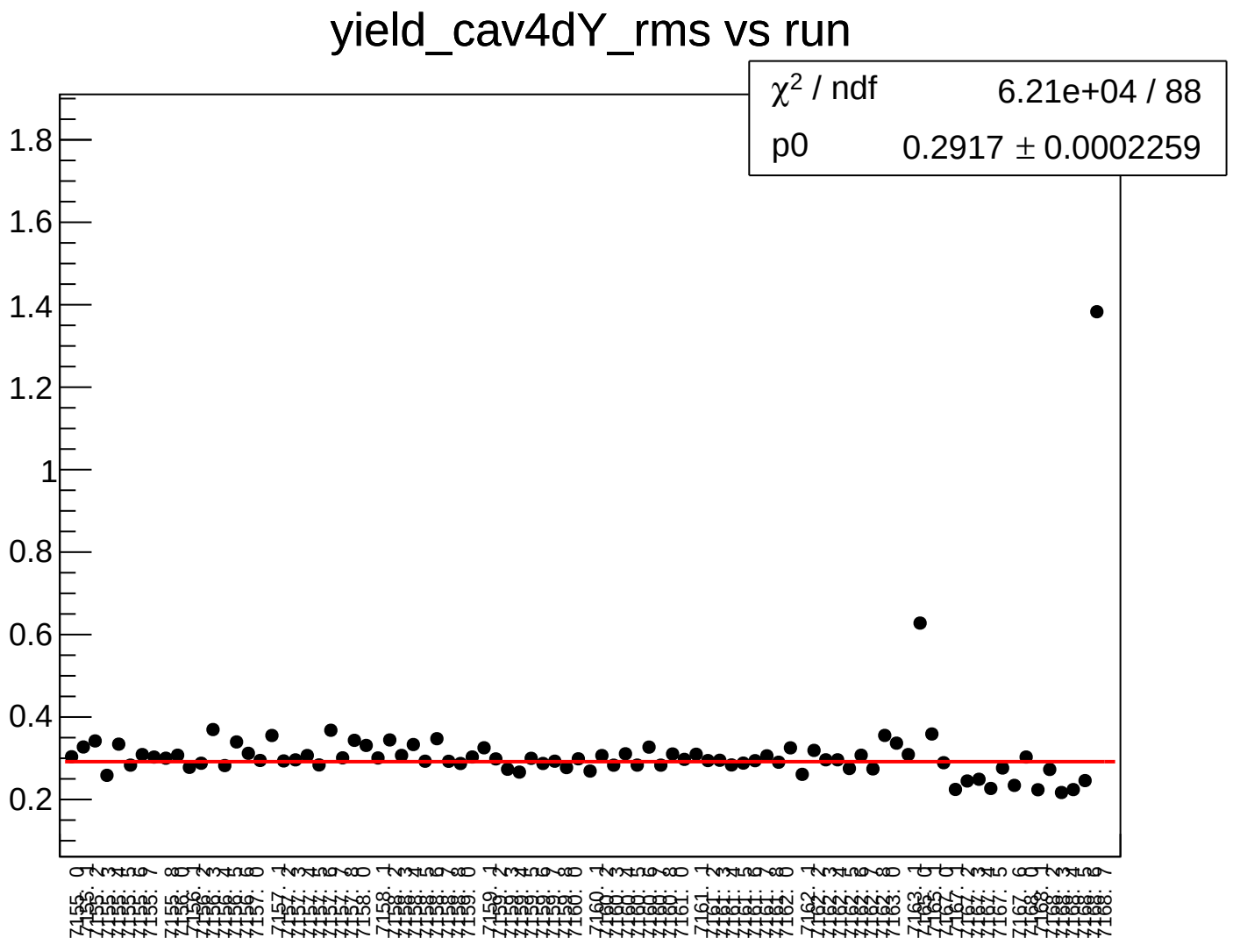

yield_cav4cY_rms vs run
χ² / ndf 1.385e+05 / 88
p0 0.4722 ± 0.0003742
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

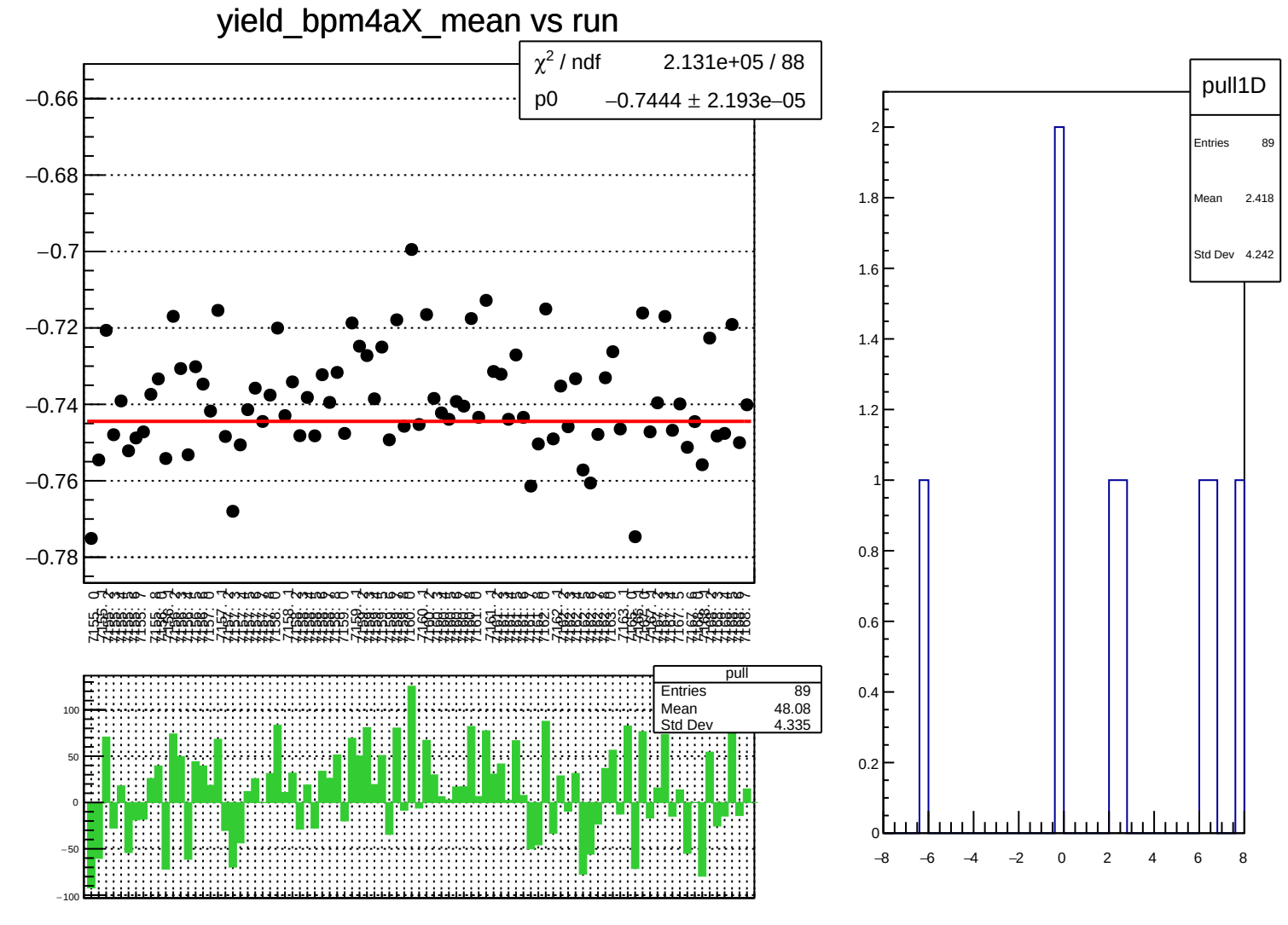

yield_cav4dX_mean vs run
χ² / ndf 4.303e+05 / 88
p0 0.9955 ± 0.0005061
pull
Entries 89
Mean −11.81
Std Dev 0
pull1D
Entries 89
Mean 1.542
Std Dev 3.583

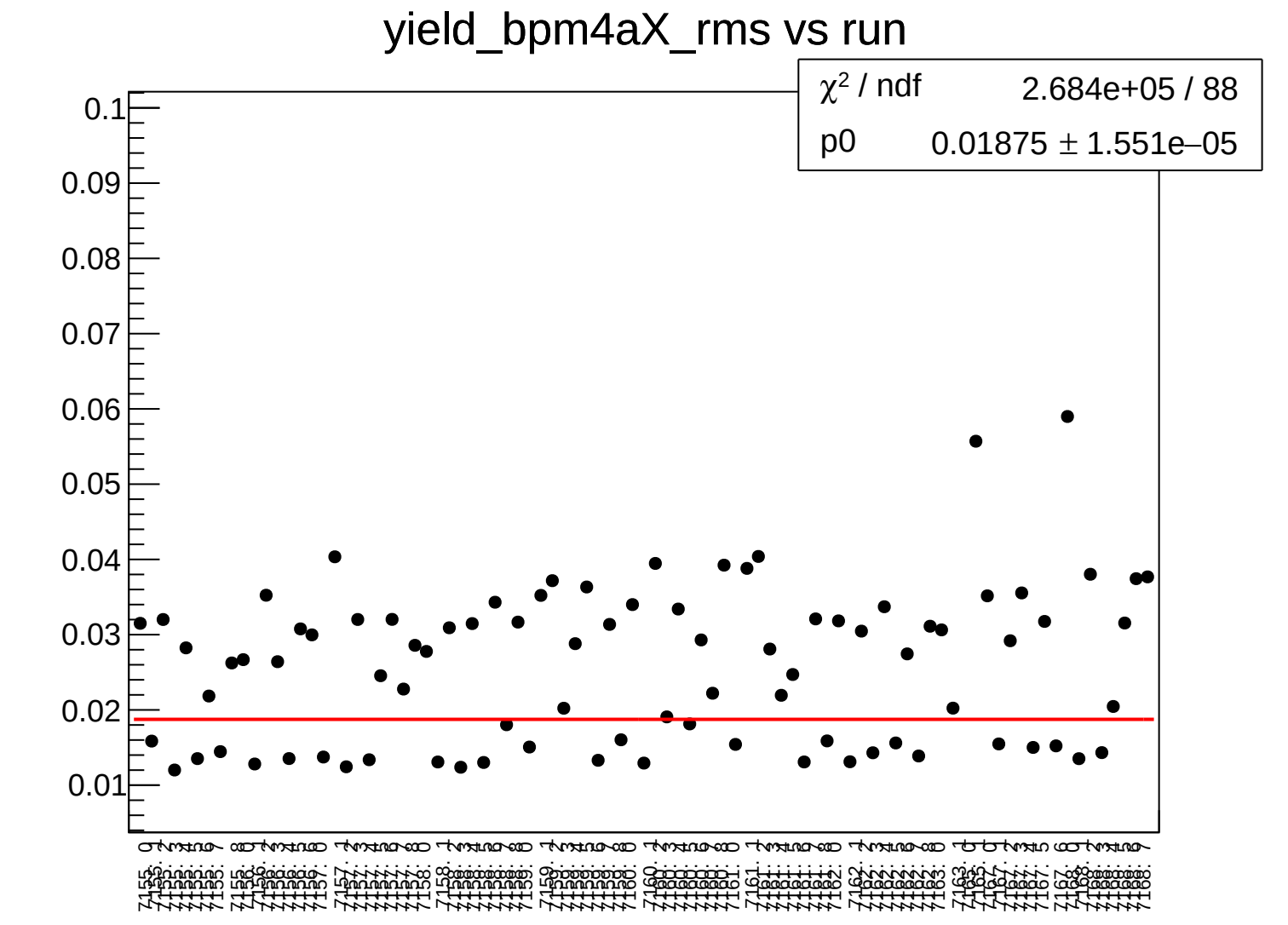

yield_cav4dX_rms vs run
χ² / ndf 2.486e+05 / 88
p0 0.4356 ± 0.0003579
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

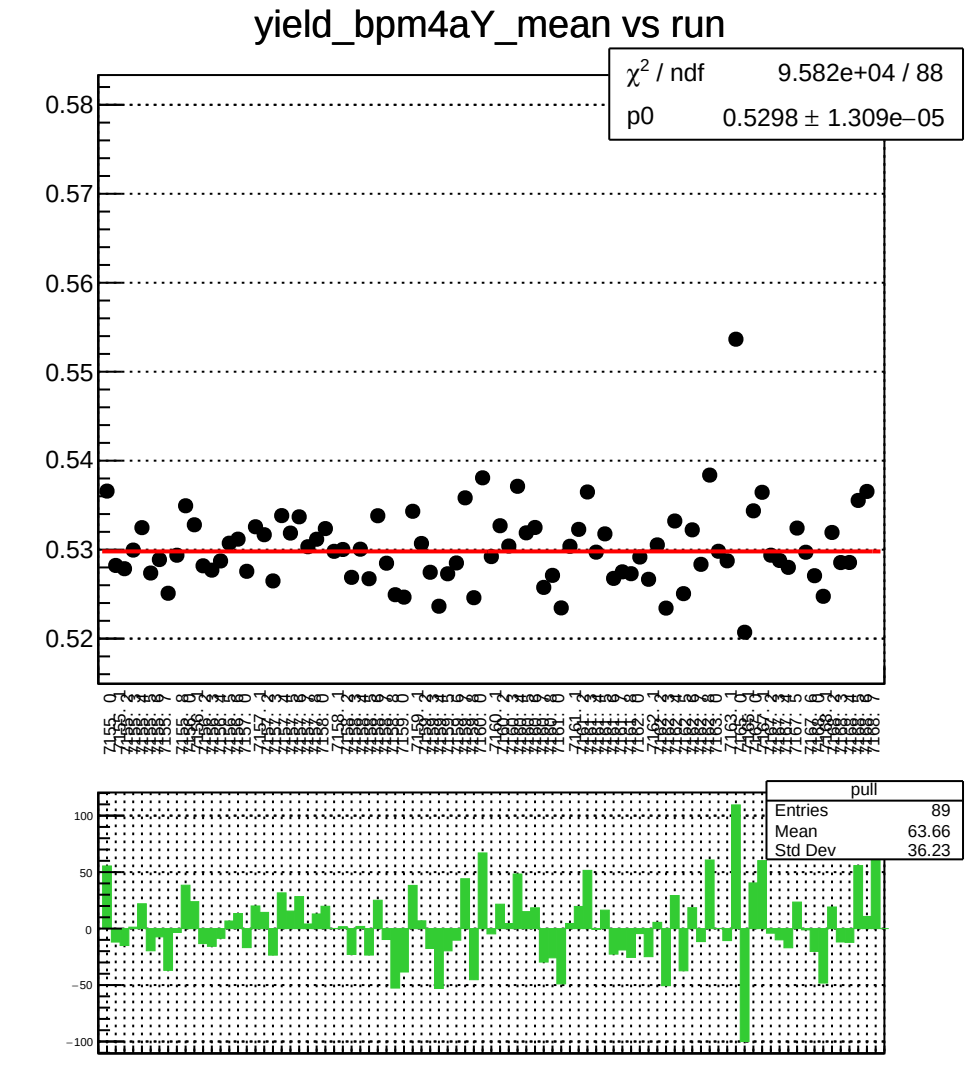

yield_cav4dY_mean vs run
χ² / ndf 3.623e+05 / 88
p0 −31.72 ± 0.0003194
−30.5
−31
−31.5
−32
−32.5
pull
Entries 89
Mean 1.414e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

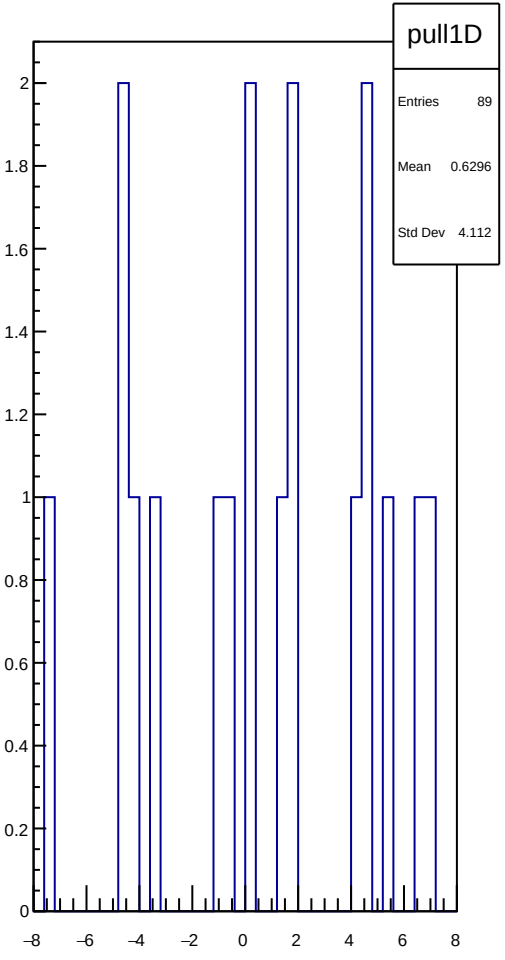

pull1D
Entries 89
Mean 1.632
Std Dev 3.913
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

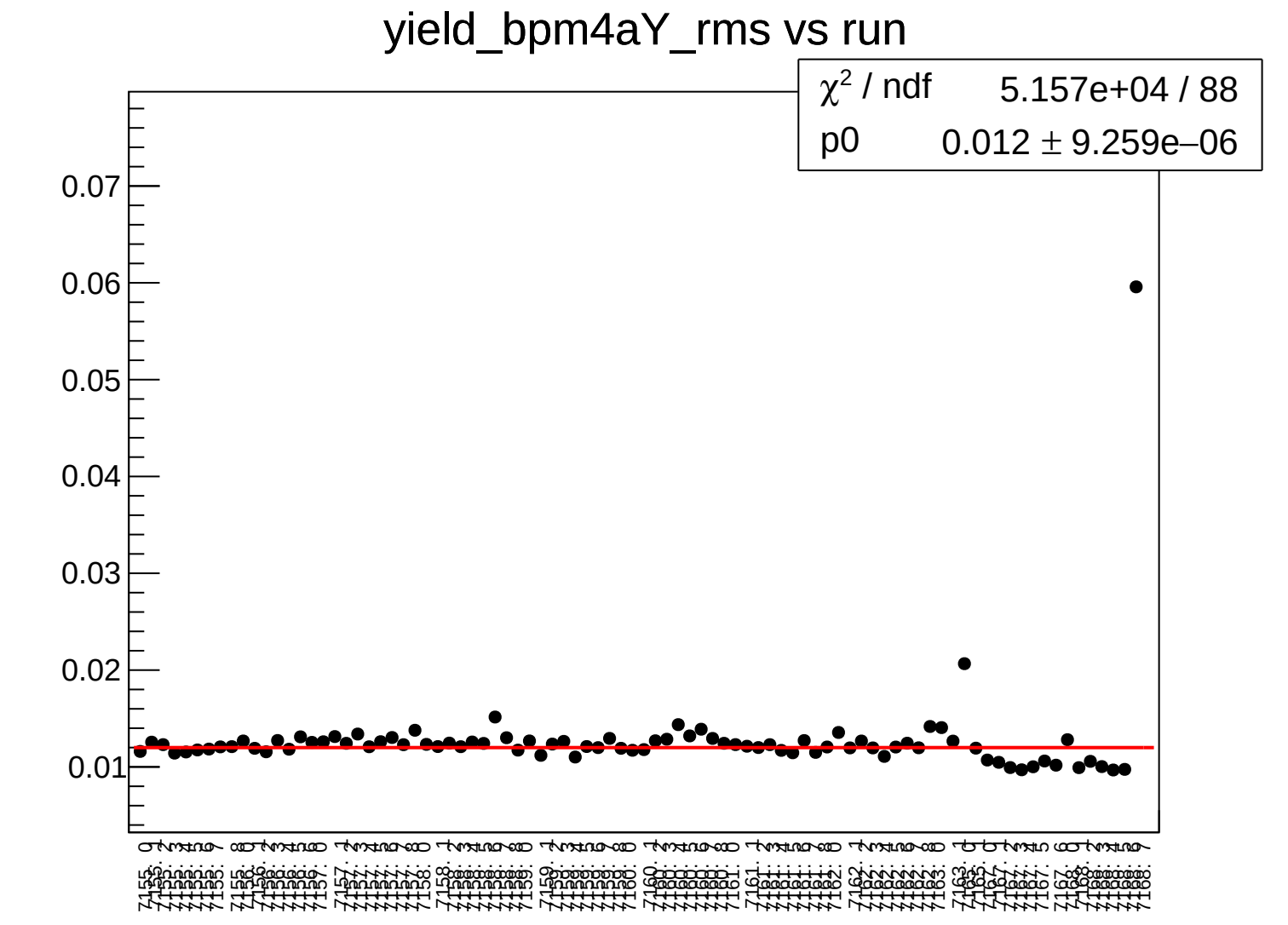

yield_cav4dY_rms vs run
χ² / ndf 6.21e+04 / 88
p0 0.2917 ± 0.0002259
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

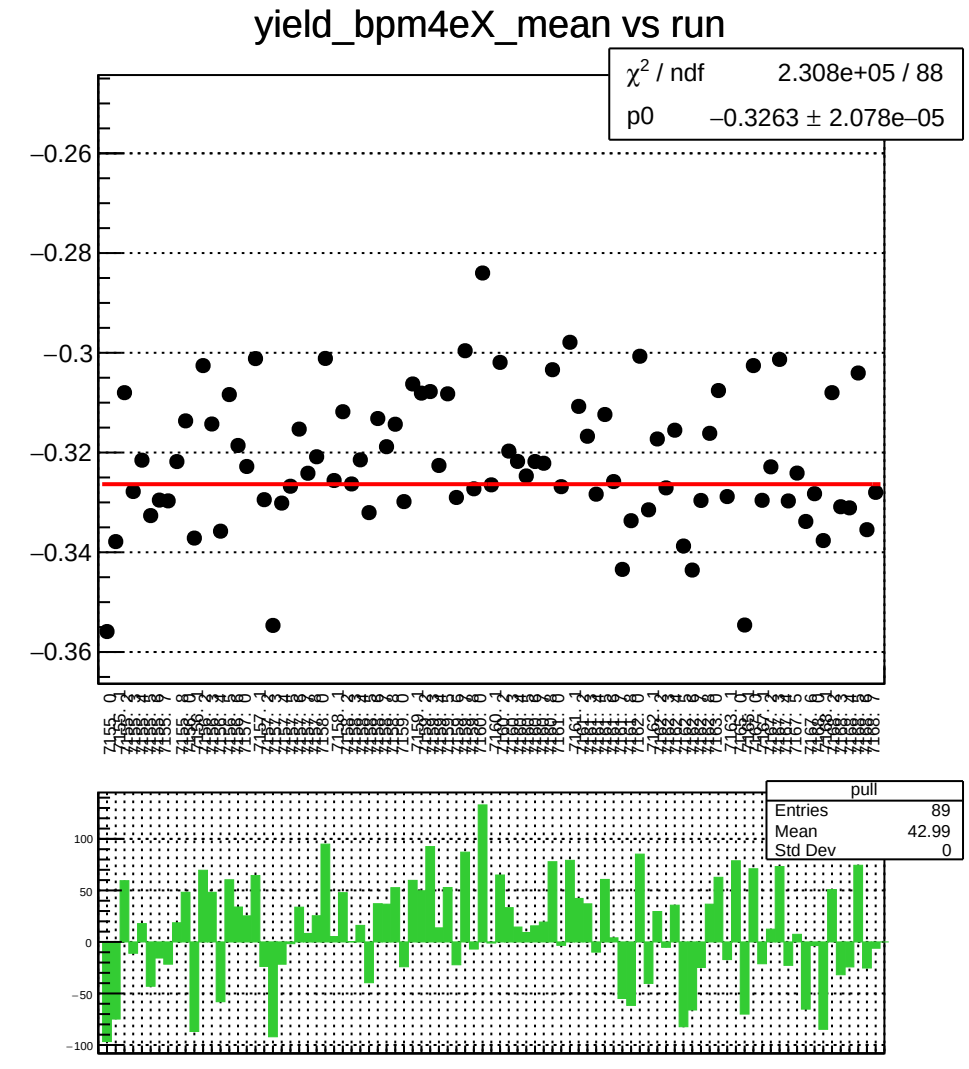

yield_bpm4aX_mean vs run
χ² / ndf 2.131e+05 / 88
p0 −0.7444 ± 2.193e−05
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 89
Mean 48.08
Std Dev 4.335
100
50
0
−50
−100
pull1D
Entries 89
Mean 2.418
Std Dev 4.242
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

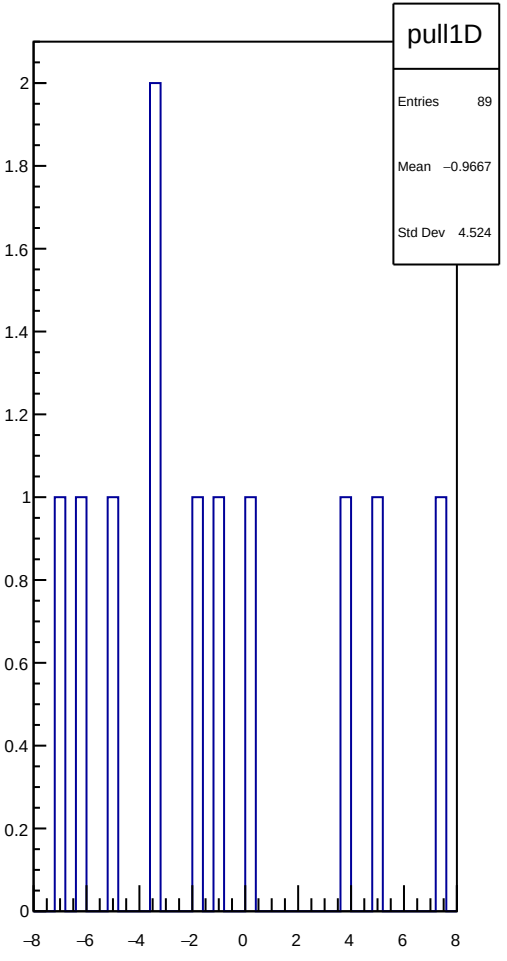

yield_bpm4aX_rms vs run
χ² / ndf 2.684e+05 / 88
p0 0.01875 ± 1.551e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

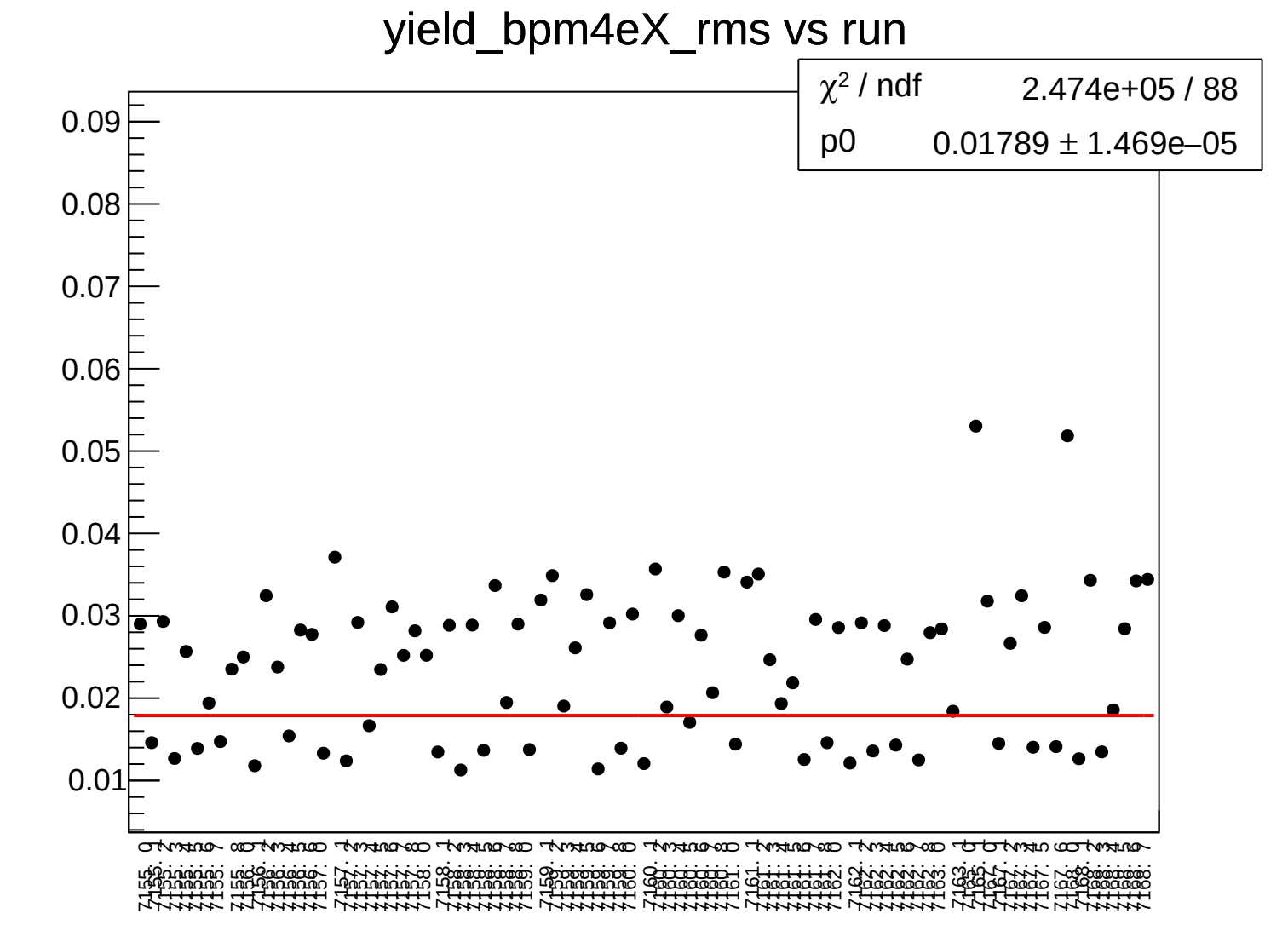

yield_bpm4aY_mean vs run
χ² / ndf 9.582e+04 / 88
p0 0.5298 ± 1.309e−05
0.58
0.57
0.56
0.55
0.54
0.53
0.52
pull
Entries 89
Mean 63.66
Std Dev 36.23
100
50
0
−50
−100

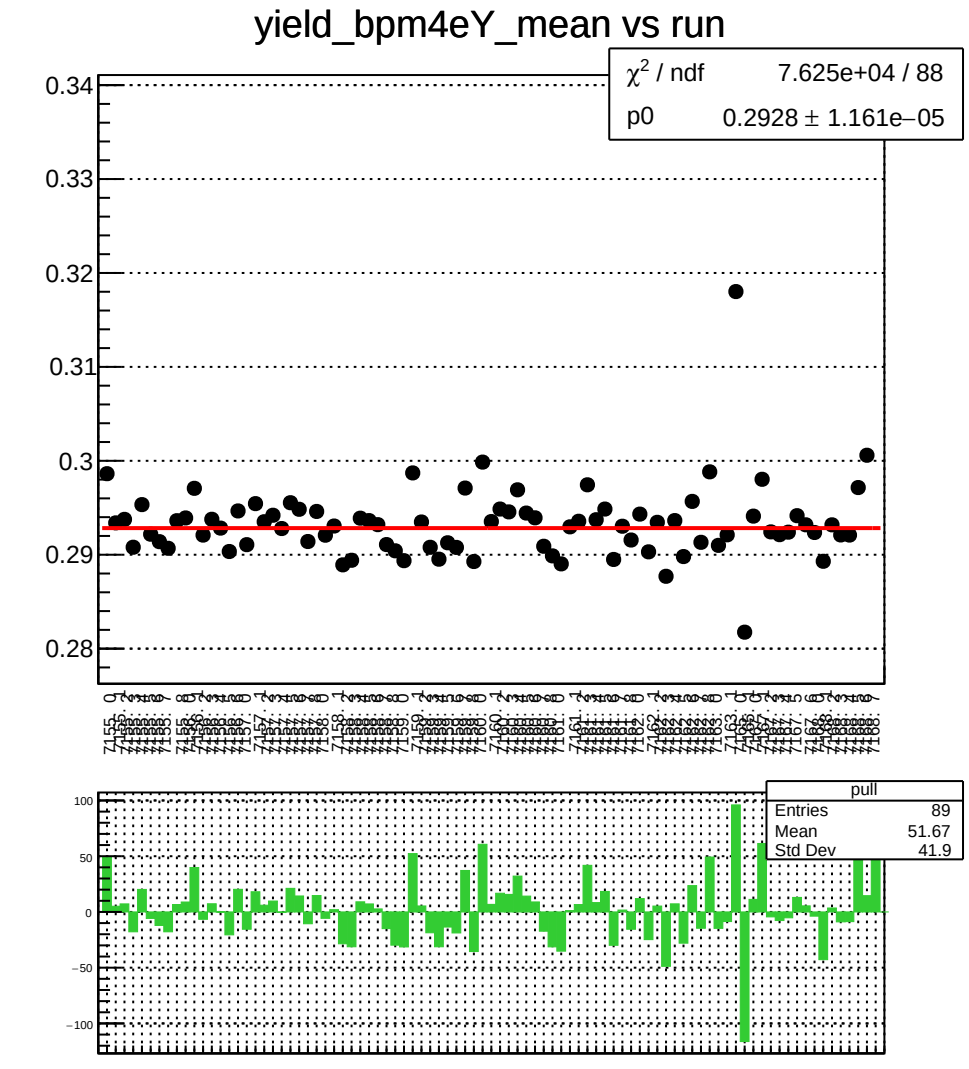

pull1D
Entries 89
Mean 0.6296
Std Dev 4.112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

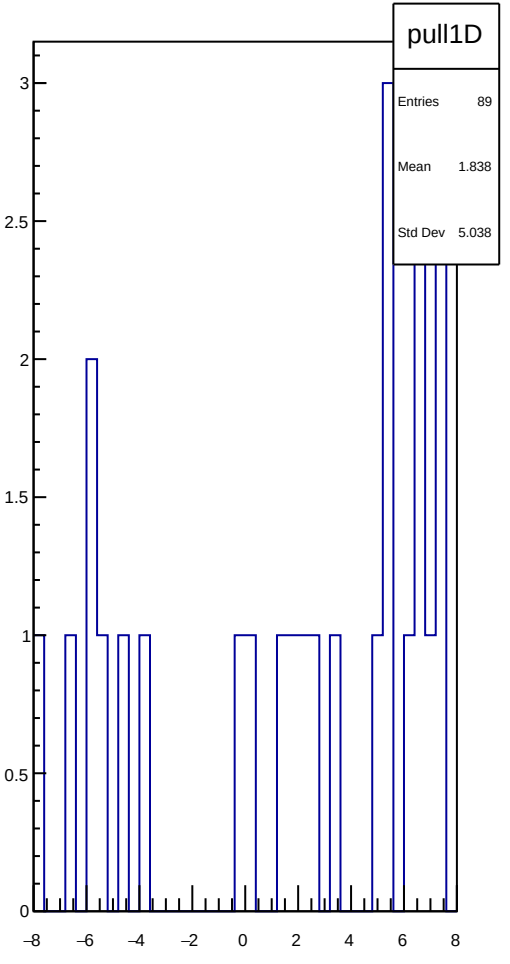

yield_bpm4aY_rms vs run
χ^2 / ndf 5.157e+04 / 88
p0 0.012 ± 9.259e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

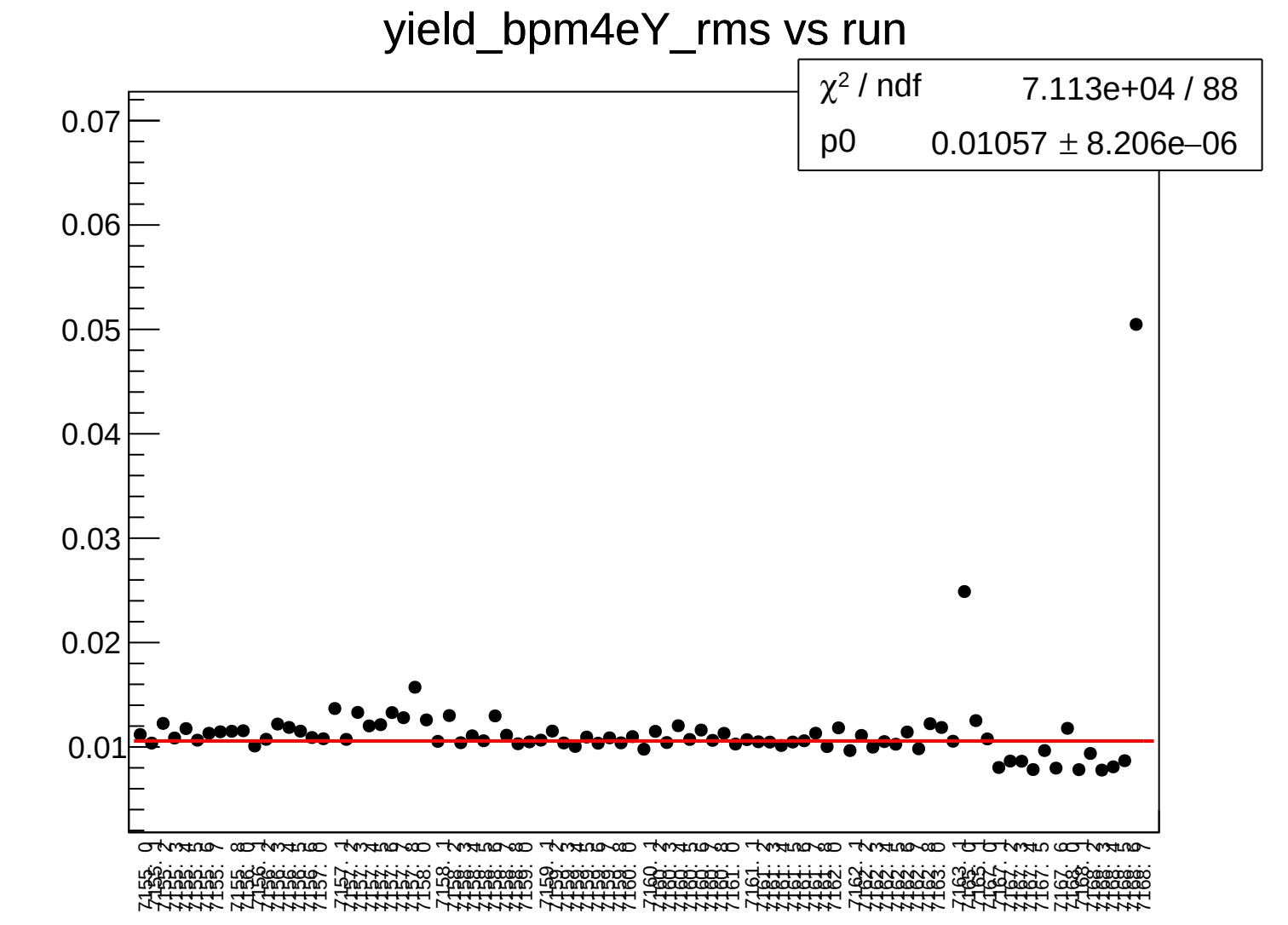

yield_bpm4eX_mean vs run
χ² / ndf 2.308e+05 / 88
p0 −0.3263 ± 2.078e−05
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 89
Mean 42.99
Std Dev 0
100
50
0
−50
−100

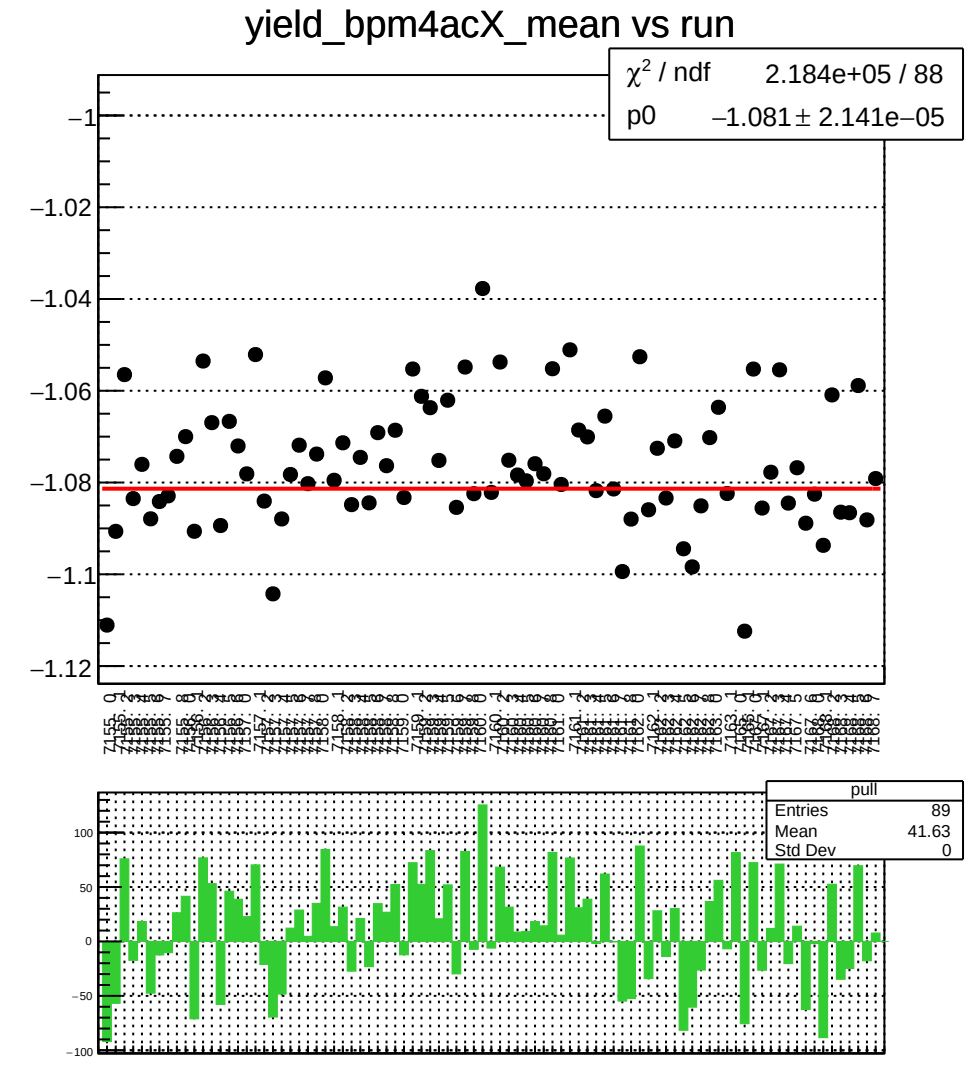

pull1D
Entries 89
Mean −0.9667
Std Dev 4.524
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

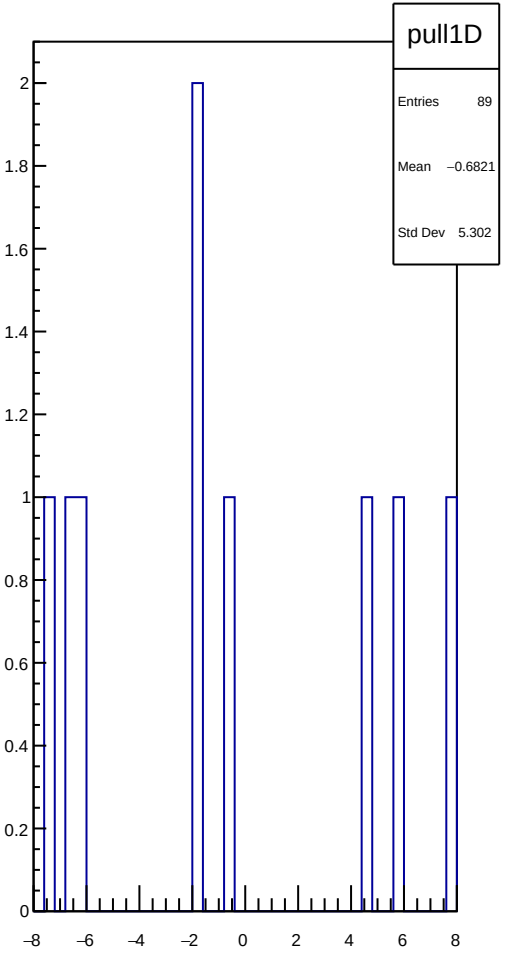

yield_bpm4eX_rms vs run
χ² / ndf 2.474e+05 / 88
p0 0.01789 ± 1.469e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

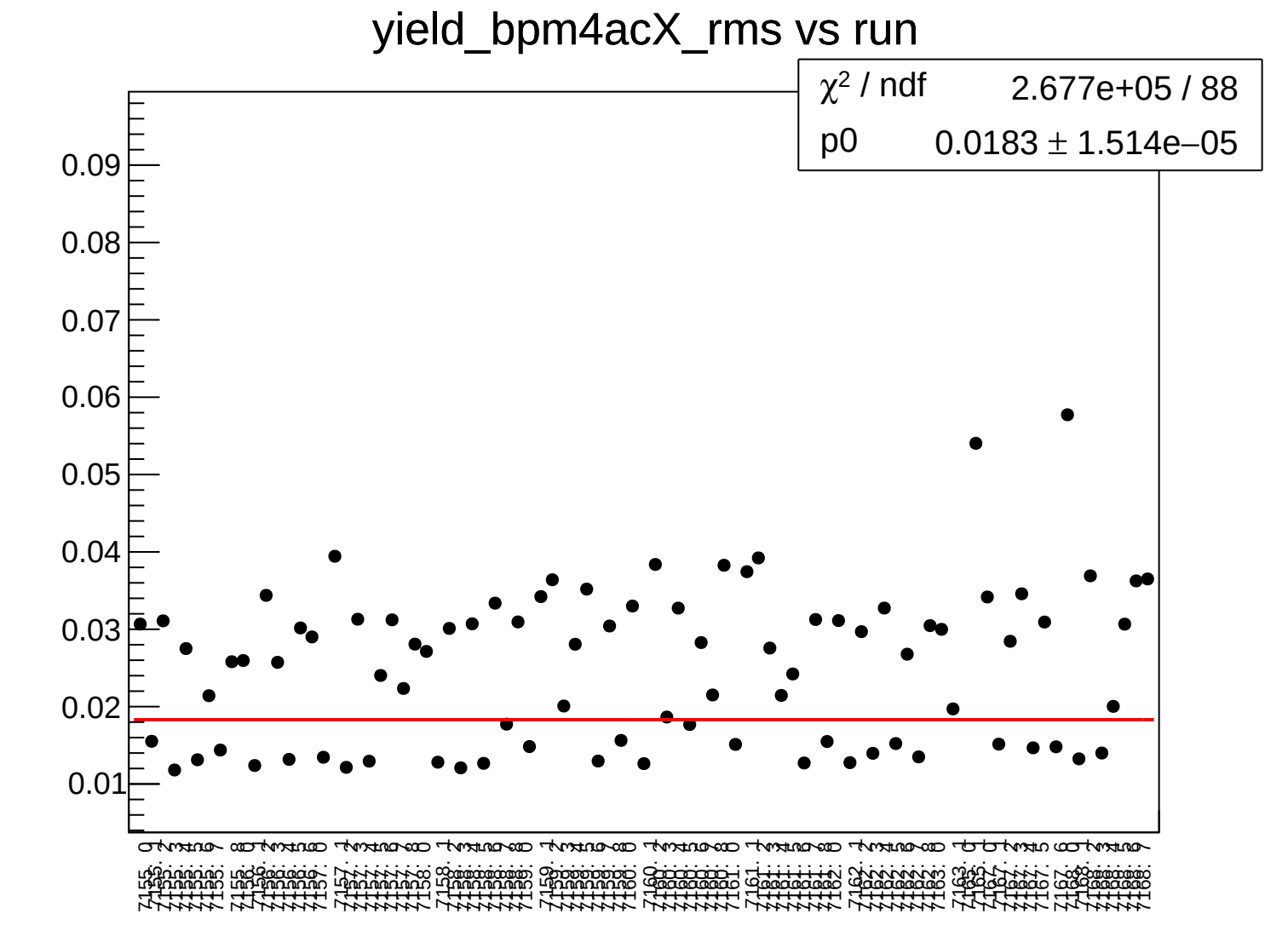

yield_bpm4eY_mean vs run
χ² / ndf 7.625e+04 / 88
p0 0.2928 ± 1.161e−05
0.34
0.33
0.32
0.31
0.3
0.29
0.28
pull
Entries 89
Mean 51.67
Std Dev 41.9
100
50
0
−50
−100

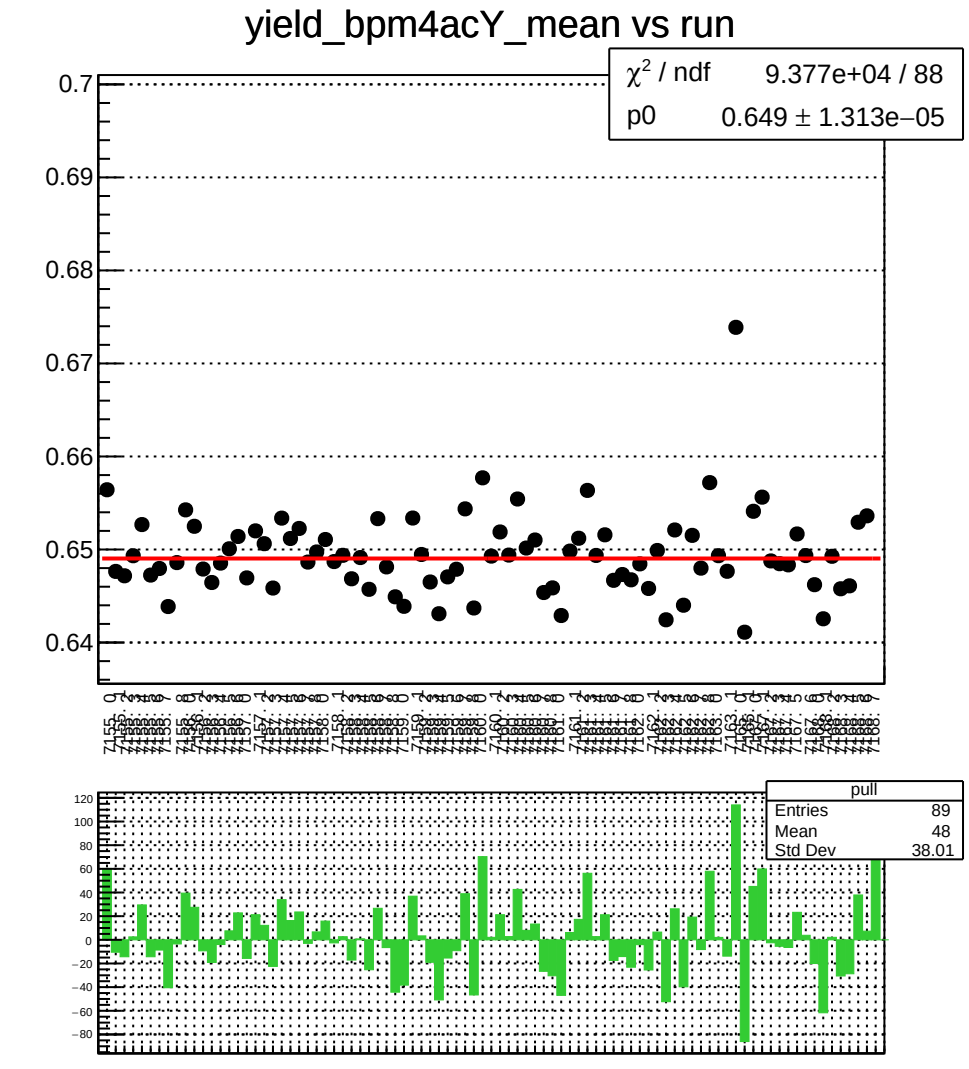

pull1D
Entries 89
Mean 1.838
Std Dev 5.038
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

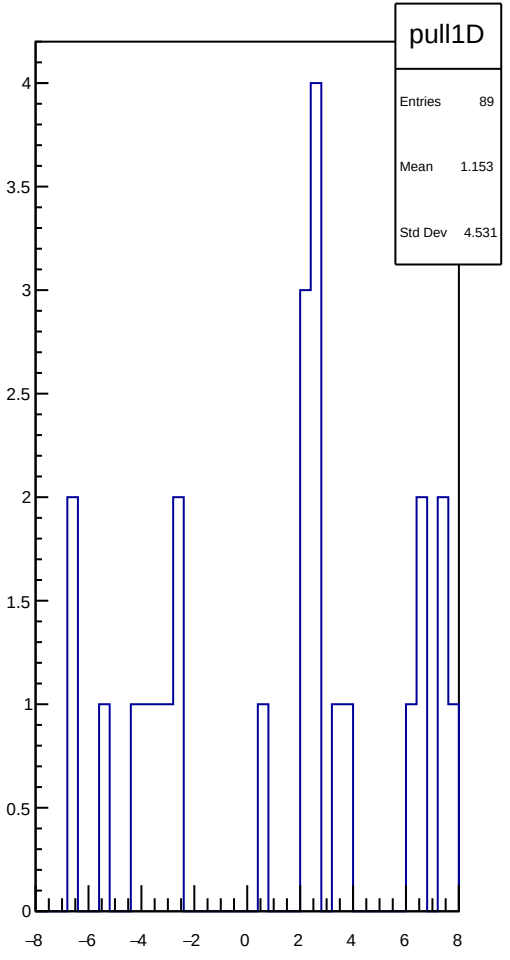

yield_bpm4eY_rms vs run
χ² / ndf 7.113e+04 / 88
p0 0.01057 ± 8.206e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

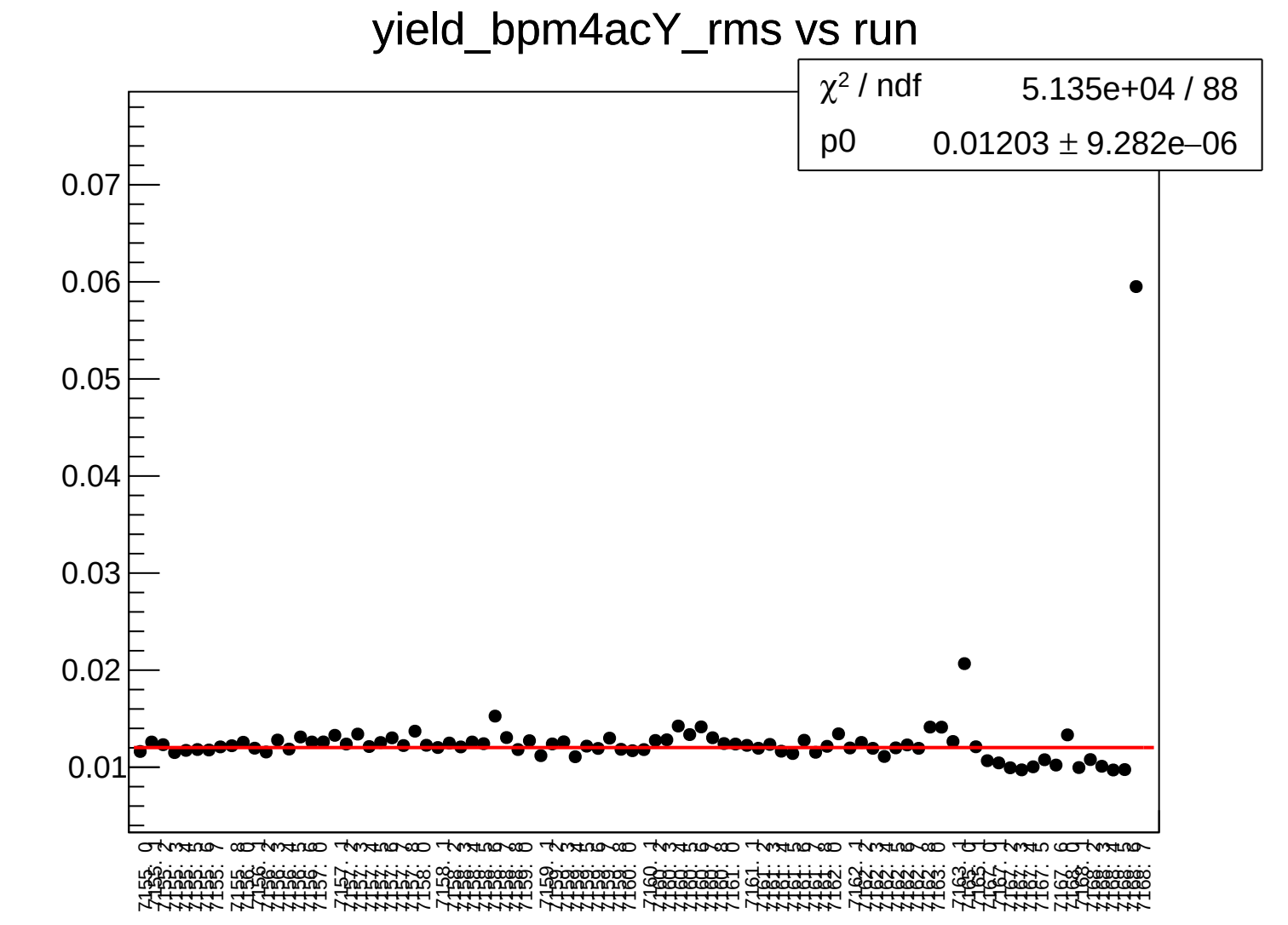

yield_bpm4acX_mean vs run
χ² / ndf 2.184e+05 / 88
p0 −1.081 ± 2.141e−05
−1
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
pull
Entries 89
Mean 41.63
Std Dev 0
100
50
0
−50
−100

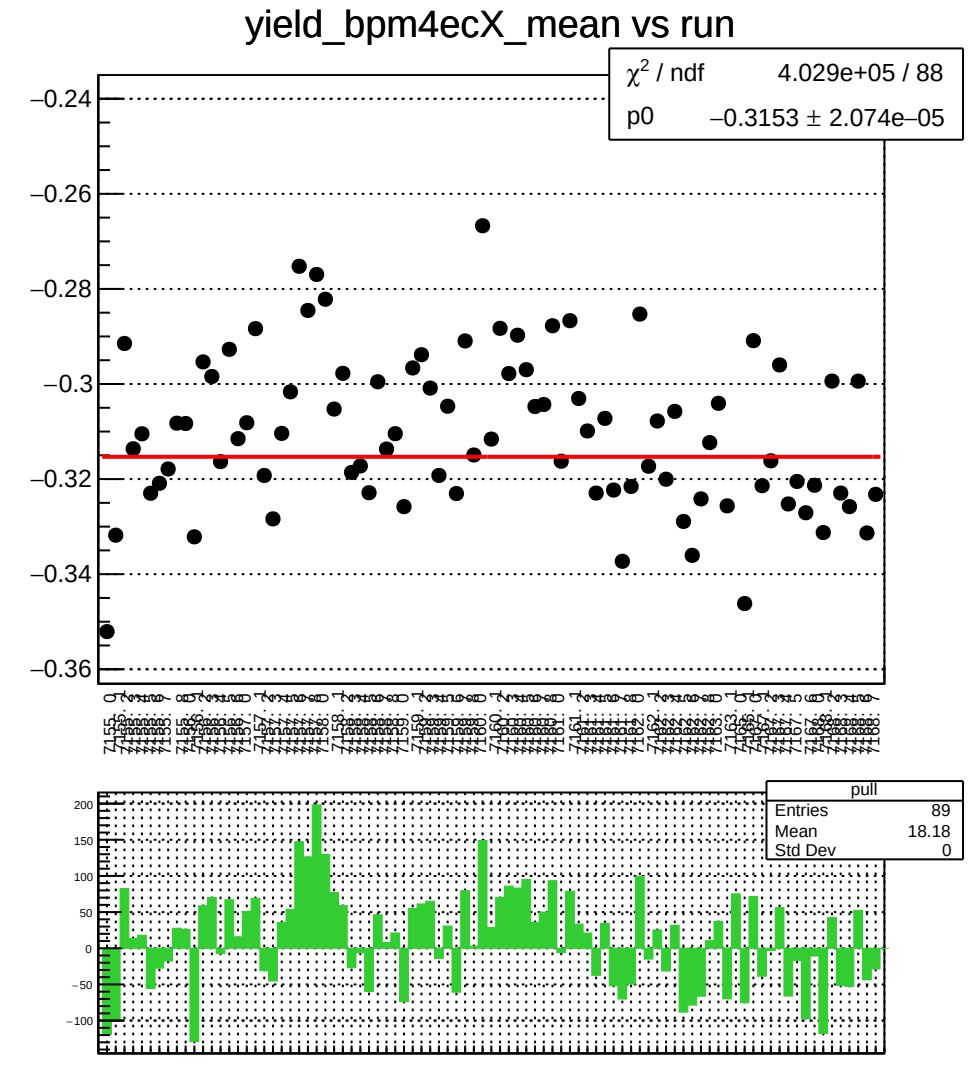

pull1D
Entries 89
Mean −0.6821
Std Dev 5.302
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

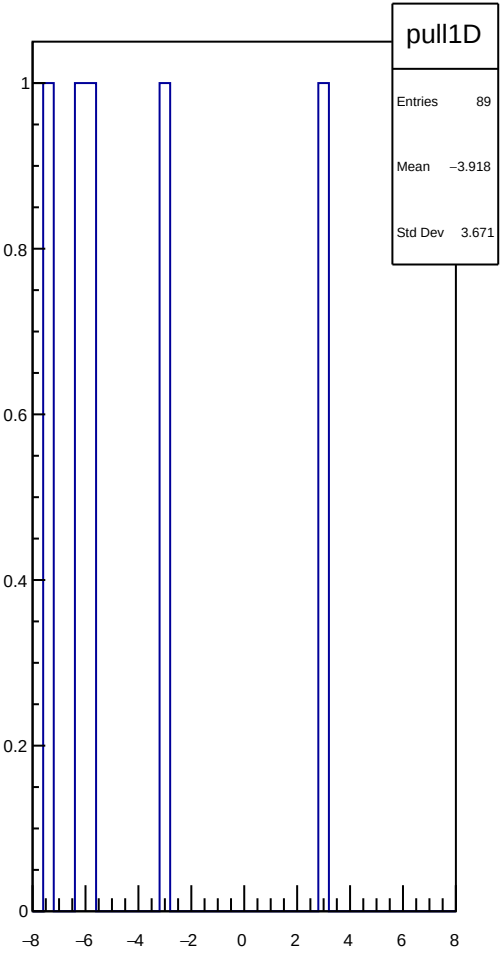

yield_bpm4acX_rms vs run
χ² / ndf 2.677e+05 / 88
p0 0.0183 ± 1.514e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

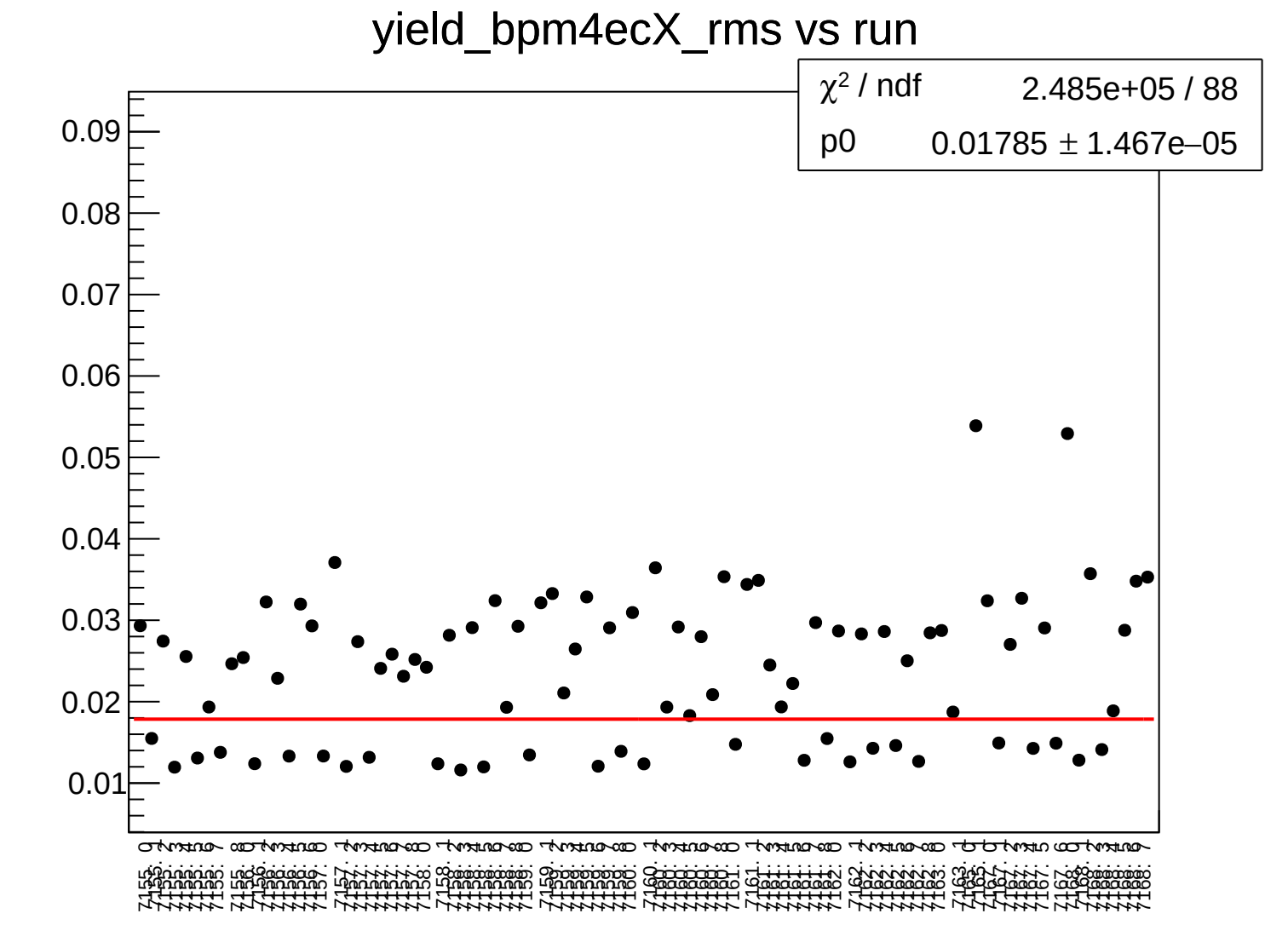

yield_bpm4acY_mean vs run
χ² / ndf 9.377e+04 / 88
p0 0.649 ± 1.313e−05
pull
Entries 89
Mean 48
Std Dev 38.01

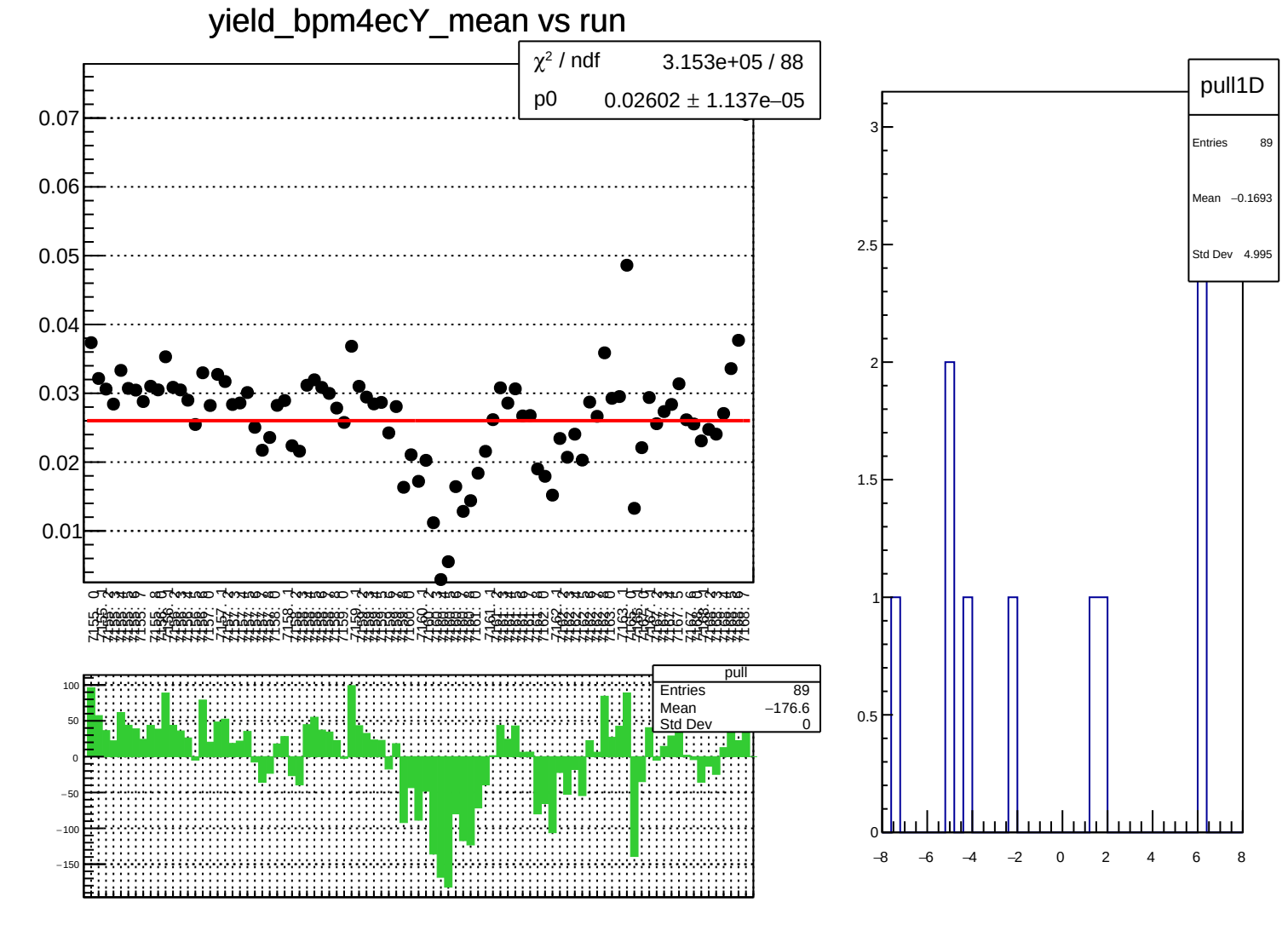

pull1D
Entries 89
Mean 1.153
Std Dev 4.531

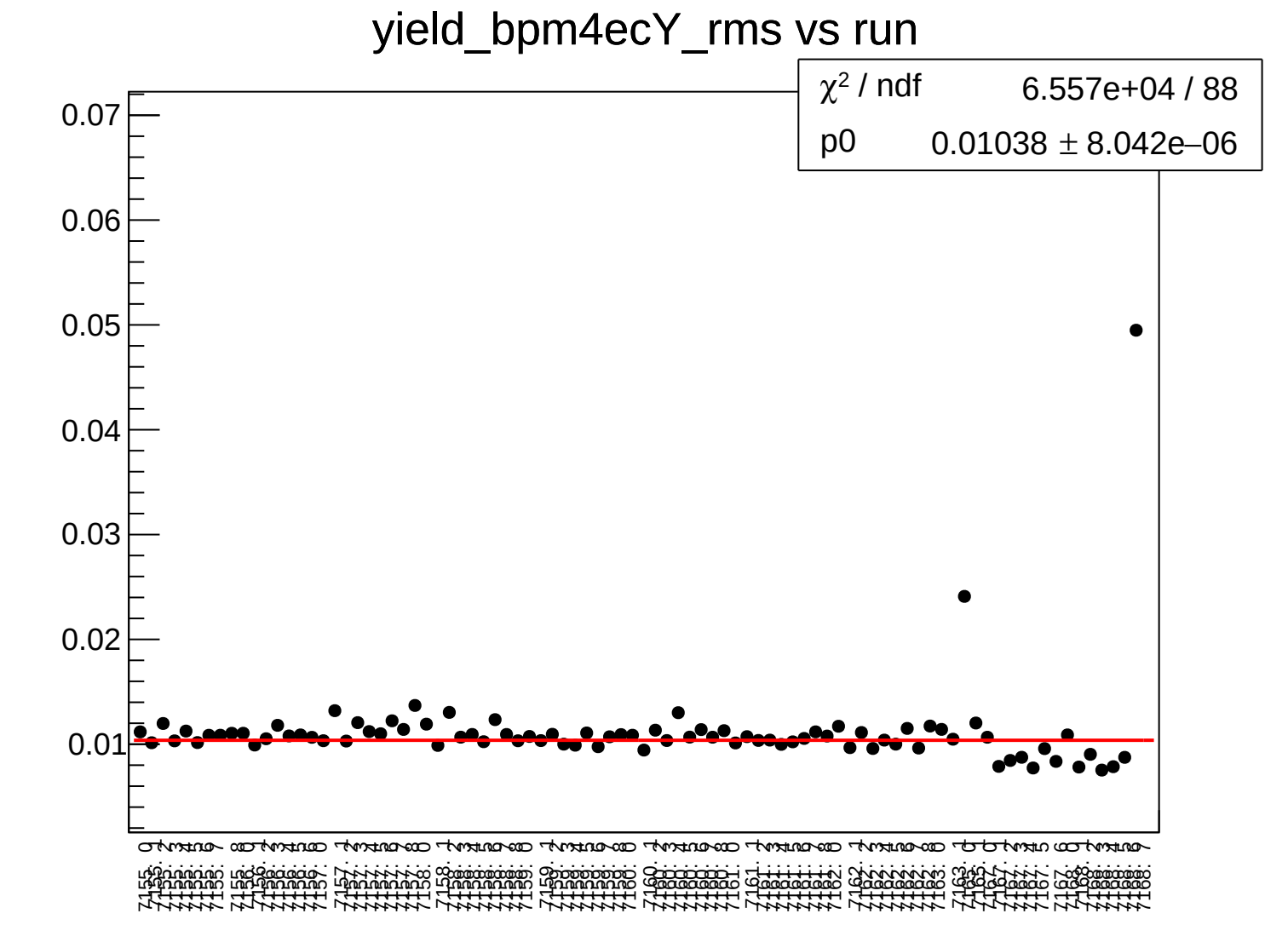

yield_bpm4acY_rms vs run
χ² / ndf 5.135e+04 / 88
p0 0.01203 ± 9.282e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

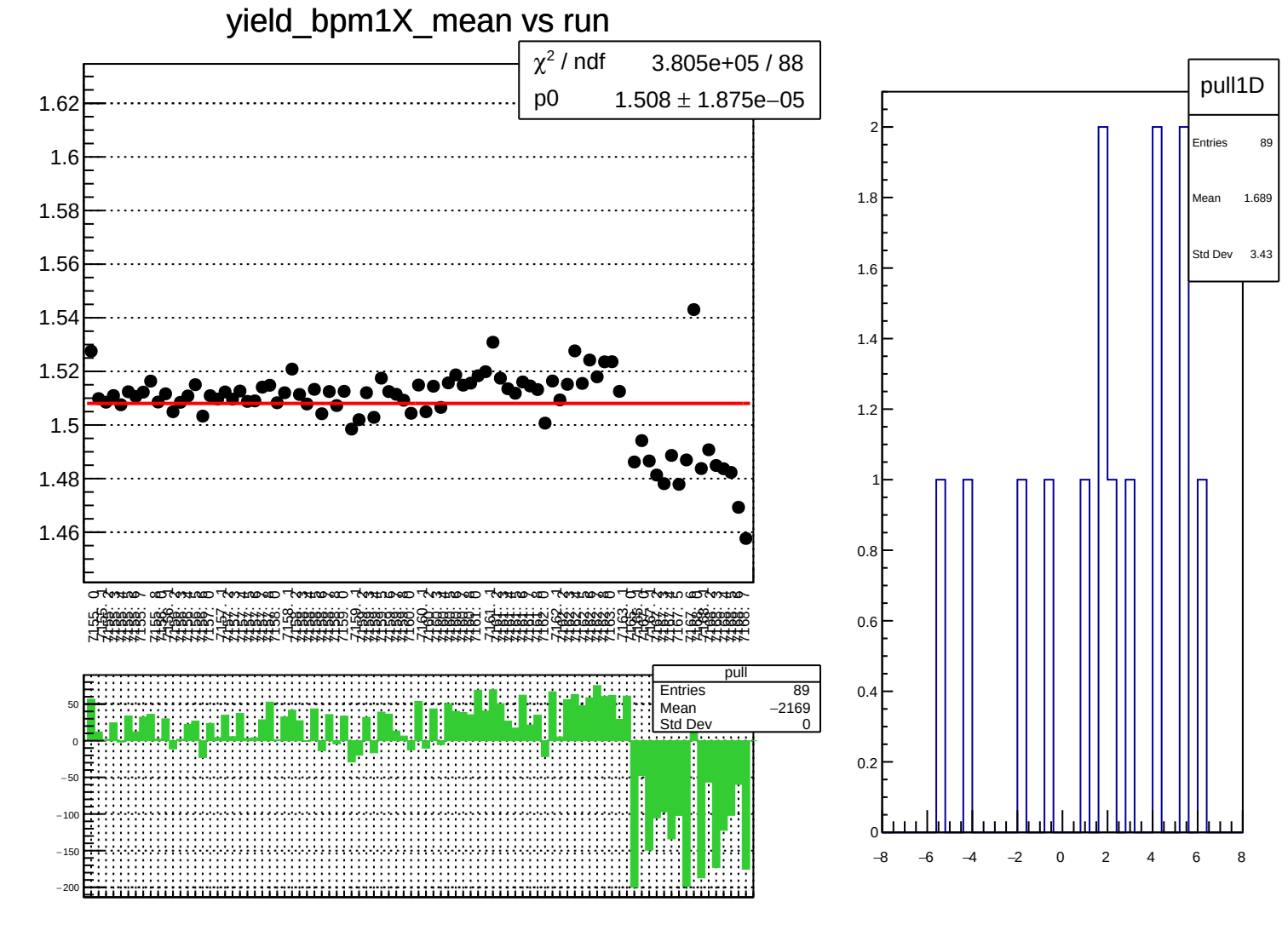

yield_bpm4ecX_mean vs run
χ² / ndf 4.029e+05 / 88
p0 −0.3153 ± 2.074e−05
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
−0.36
pull
Entries 89
Mean 18.18
Std Dev 0
200
150
100
50
0
−50
−100

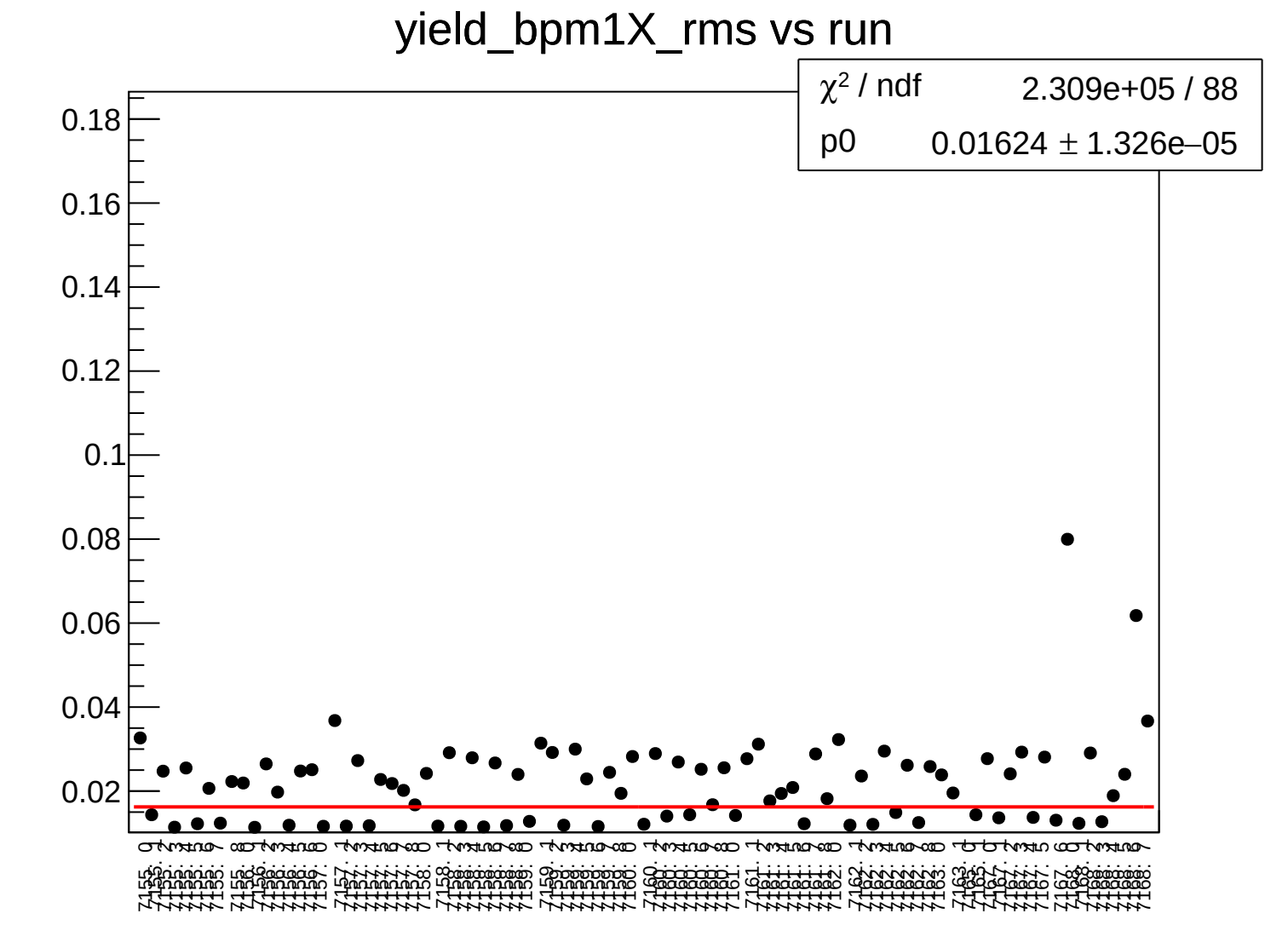

pull1D
Entries 89
Mean −3.918
Std Dev 3.671
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

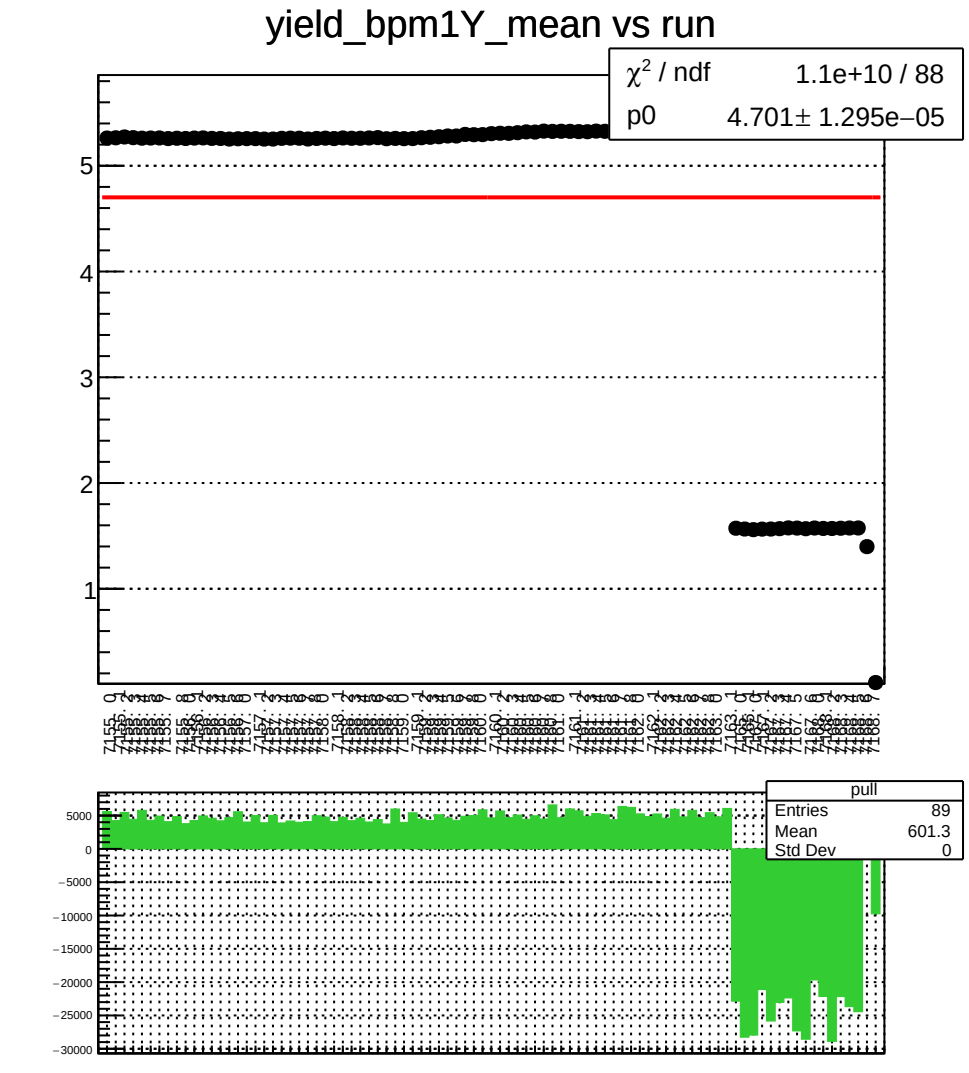

yield_bpm4ecX_rms vs run
χ² / ndf 2.485e+05 / 88
p0 0.01785 ± 1.467e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

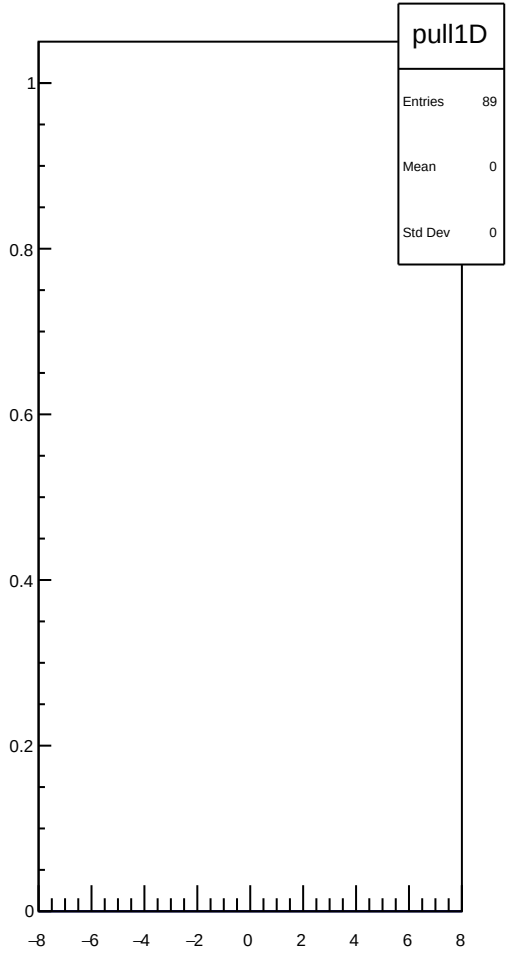

yield_bpm4ecY_mean vs run
χ² / ndf 3.153e+05 / 88
p0 0.02602 ± 1.137e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 89
Mean −176.6
Std Dev 0
100
50
0
−50
−100
−150
pull1D
Entries 89
Mean −0.1693
Std Dev 4.995
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

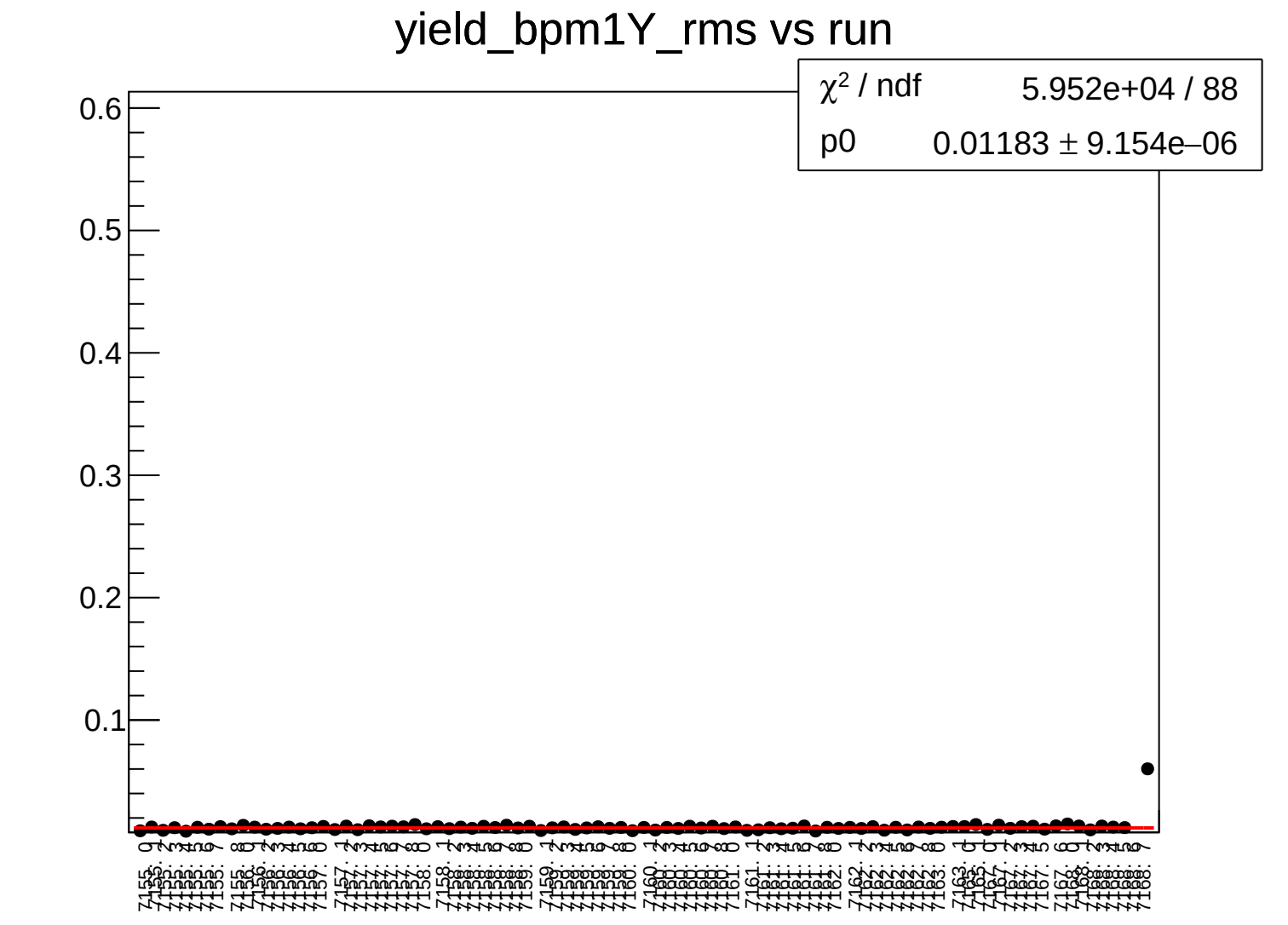

yield_bpm4ecY_rms vs run
χ² / ndf 6.557e+04 / 88
p0 0.01038 ± 8.042e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

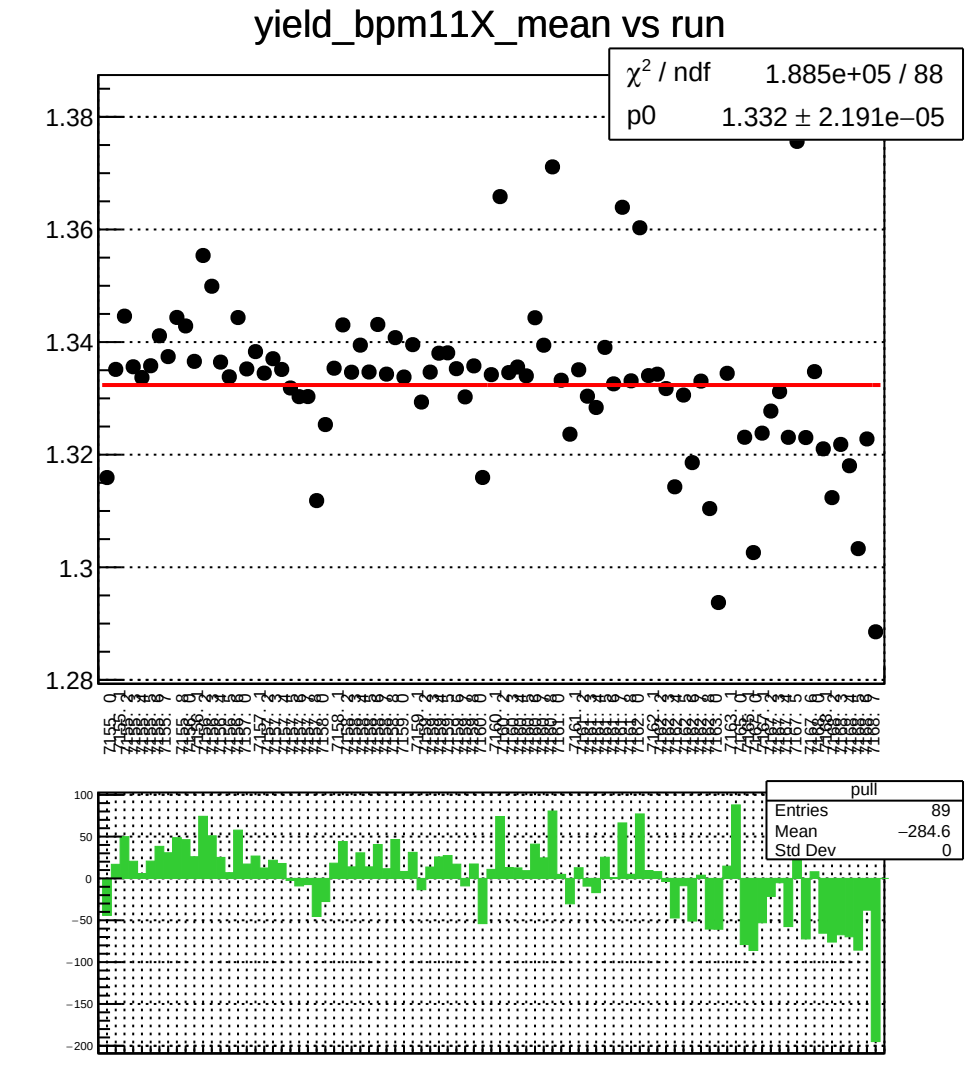

yield_bpm1X_mean vs run
χ² / ndf 3.805e+05 / 88
p0 1.508 ± 1.875e−05
1.62
1.6
1.58
1.56
1.54
1.52
1.5
1.48
1.46
pull
Entries 89
Mean −2169
Std Dev 0
50
0
−50
−100
−150
−200
pull1D
Entries 89
Mean 1.689
Std Dev 3.43
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

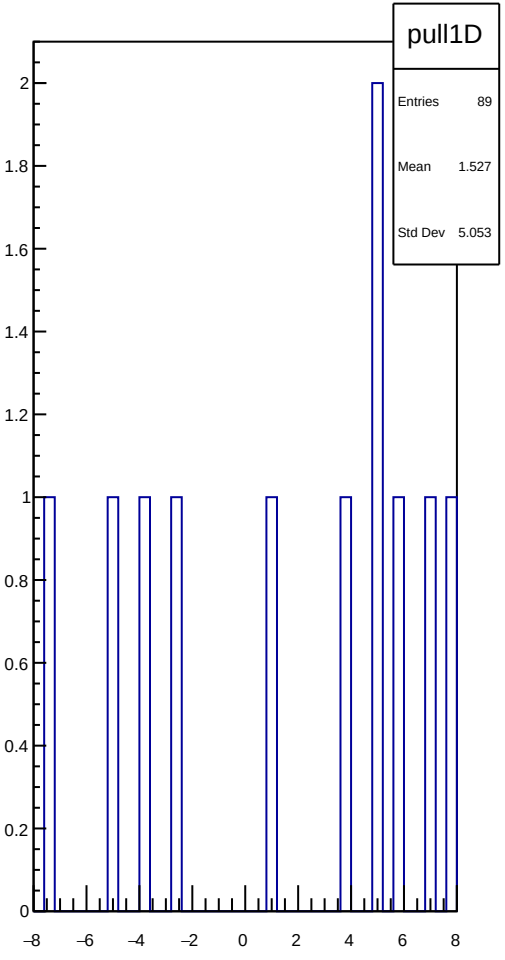

yield_bpm1X_rms vs run
χ² / ndf 2.309e+05 / 88
p0 0.01624 ± 1.326e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

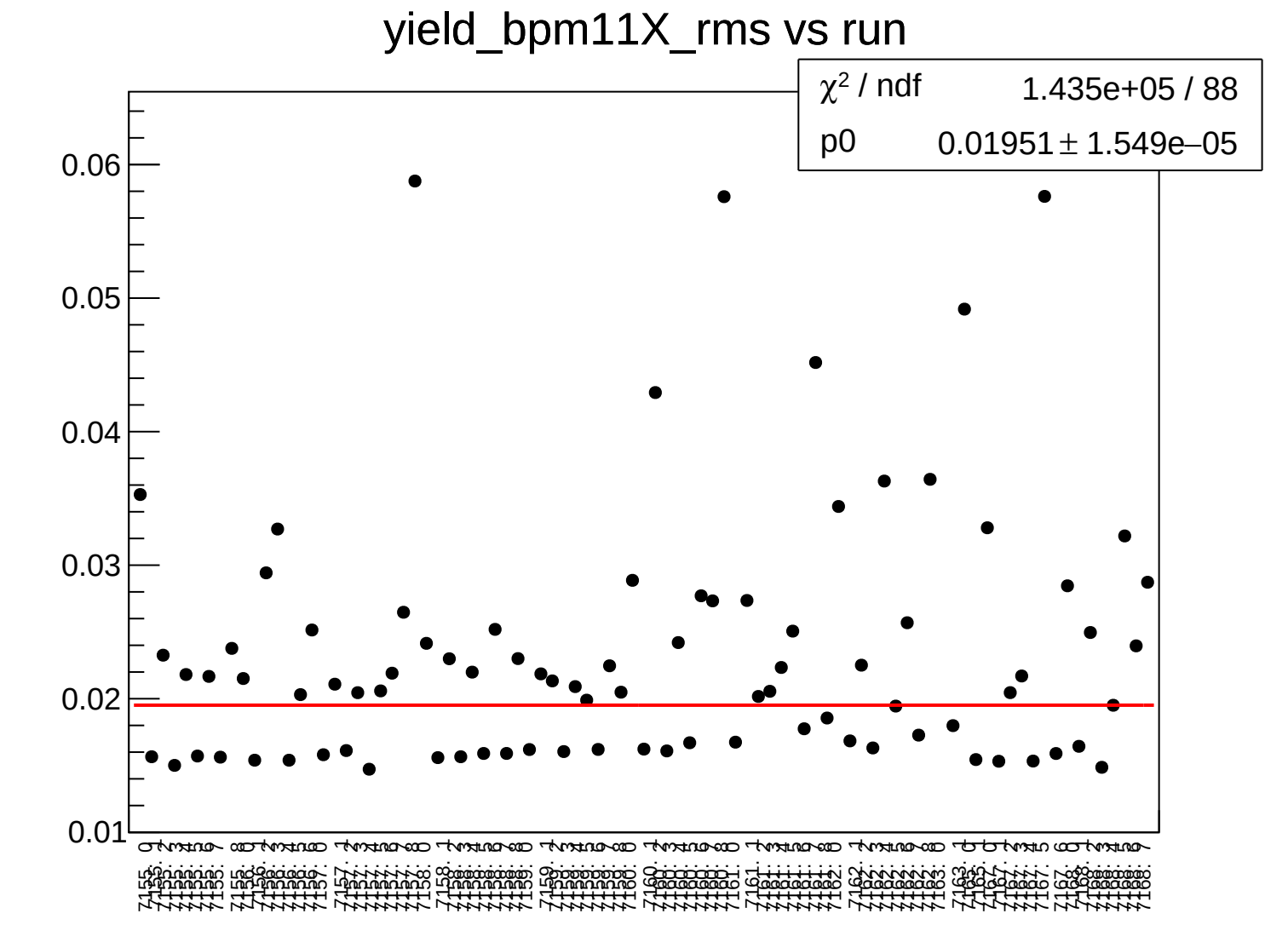

yield_bpm1Y_mean vs run
χ² / ndf 1.1e+10 / 88
p0 4.701± 1.295e−05
pull
Entries 89
Mean 601.3
Std Dev 0

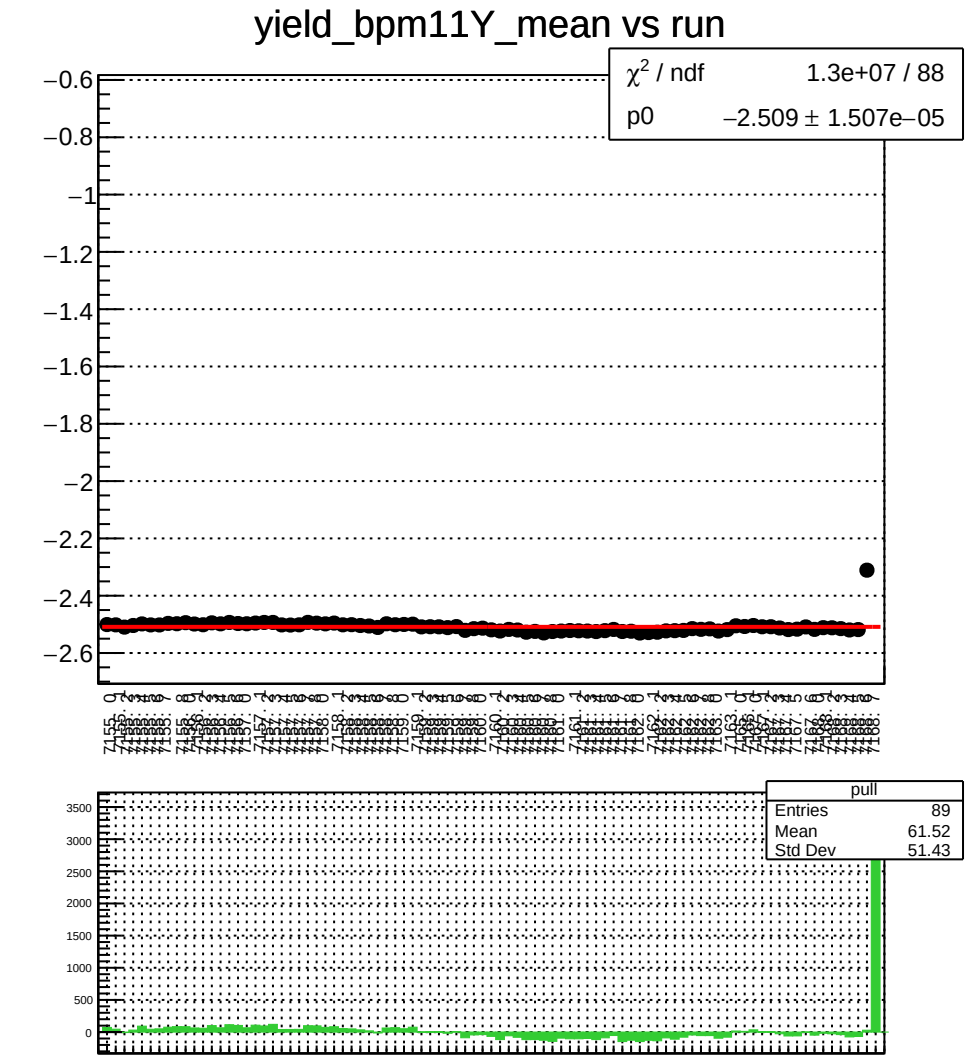

pull1D
Entries 89
Mean 0
Std Dev 0

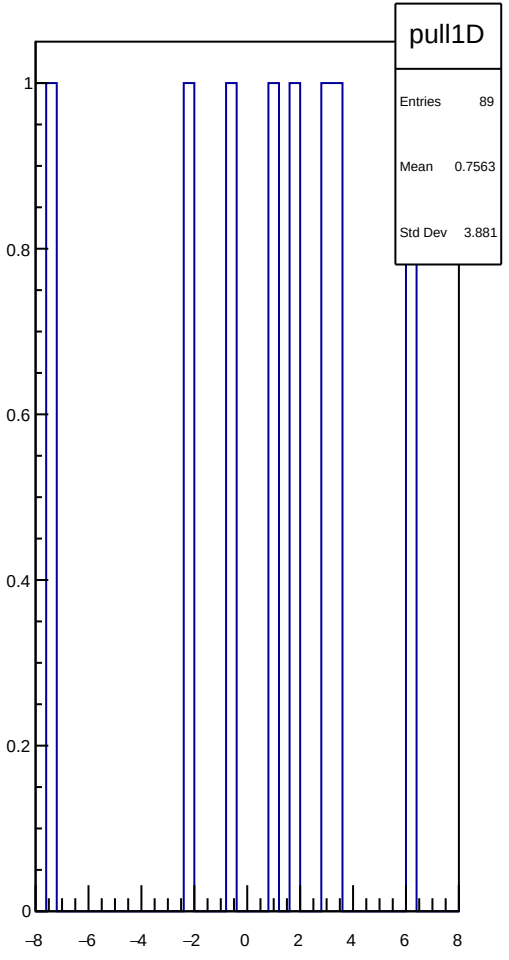

yield_bpm1Y_rms vs run
χ² / ndf 5.952e+04 / 88
p0 0.01183 ± 9.154e–06
0.6
0.5
0.4
0.3
0.2
0.1

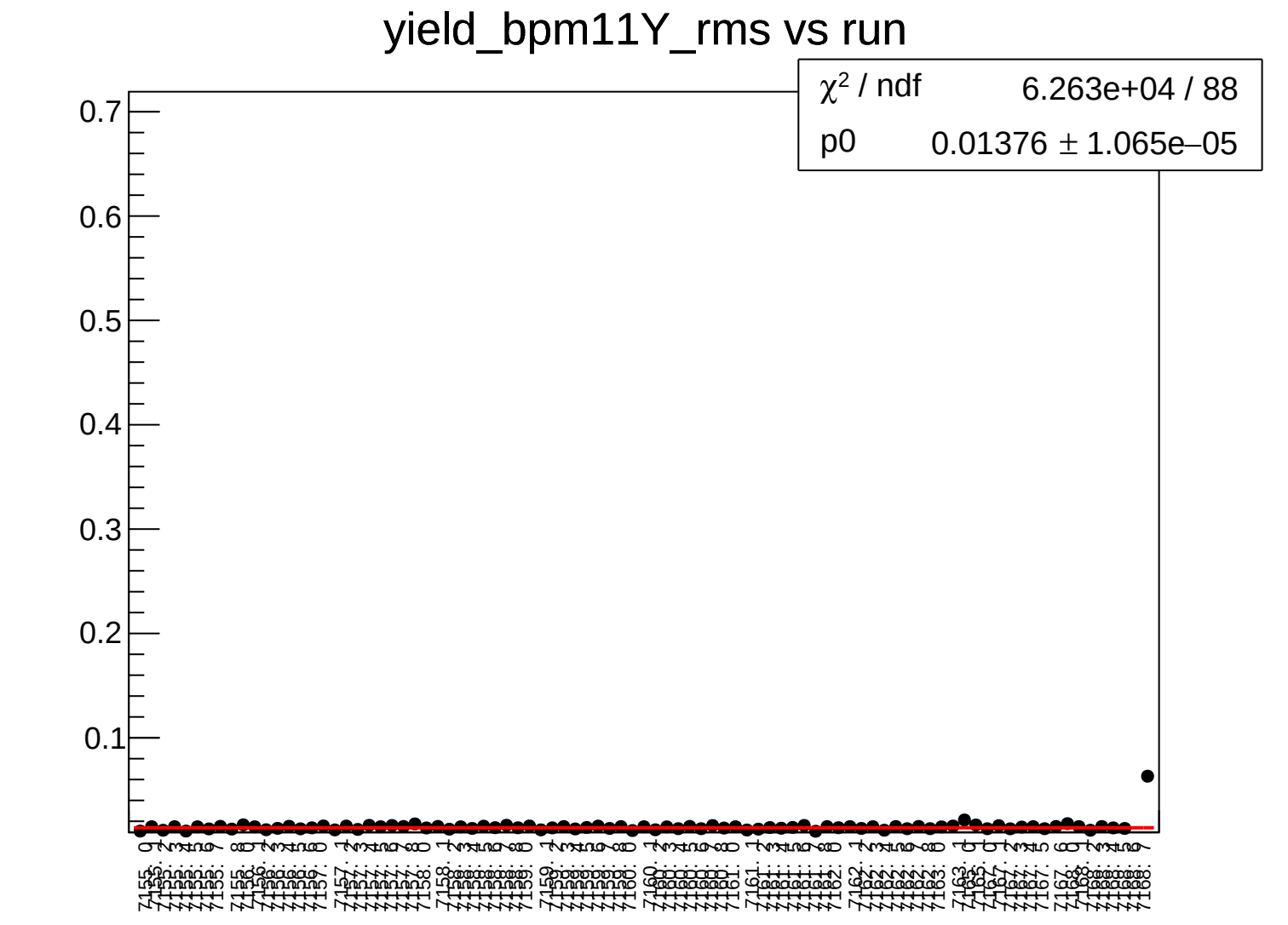

yield_bpm11X_mean vs run
χ² / ndf 1.885e+05 / 88
p0 1.332 ± 2.191e−05
1.38
1.36
1.34
1.32
1.3
1.28
pull
Entries 89
Mean −284.6
Std Dev 0
100
50
0
−50
−100
−150
−200

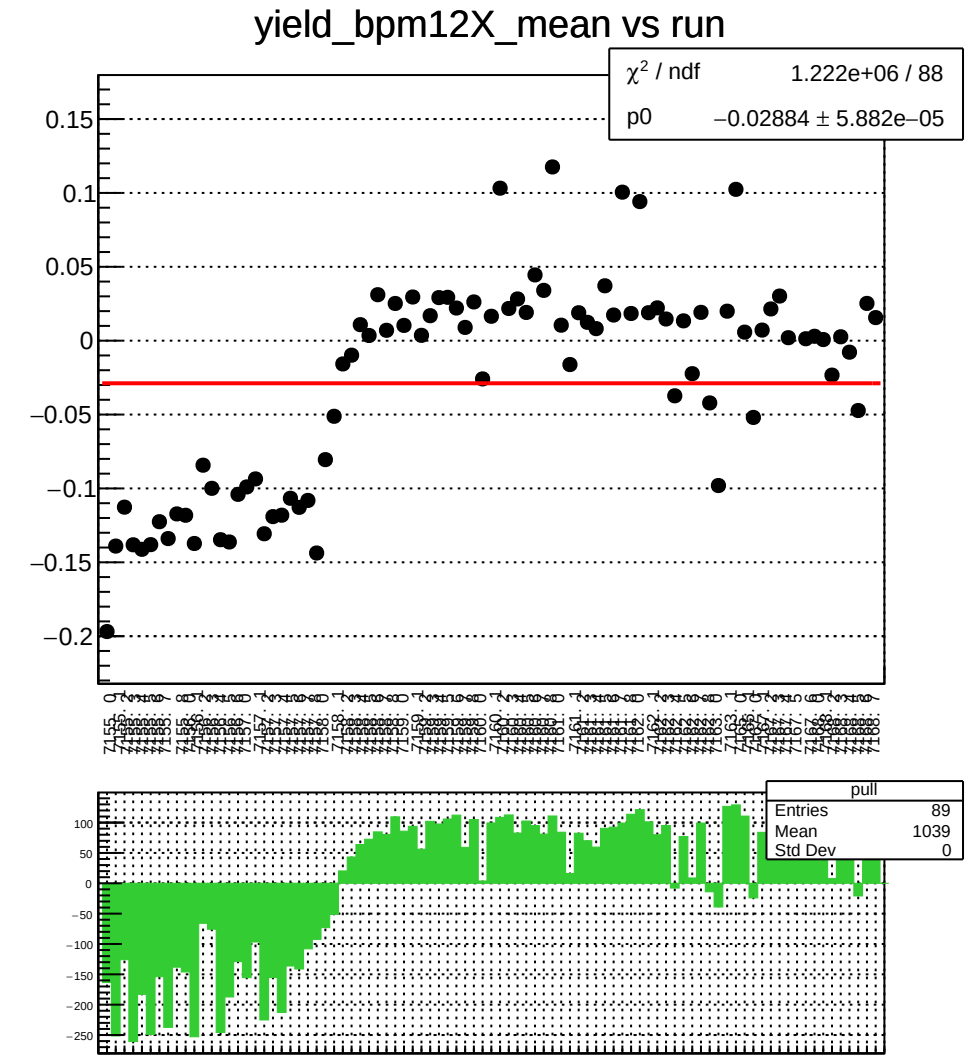

pull1D
Entries 89
Mean 1.527
Std Dev 5.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

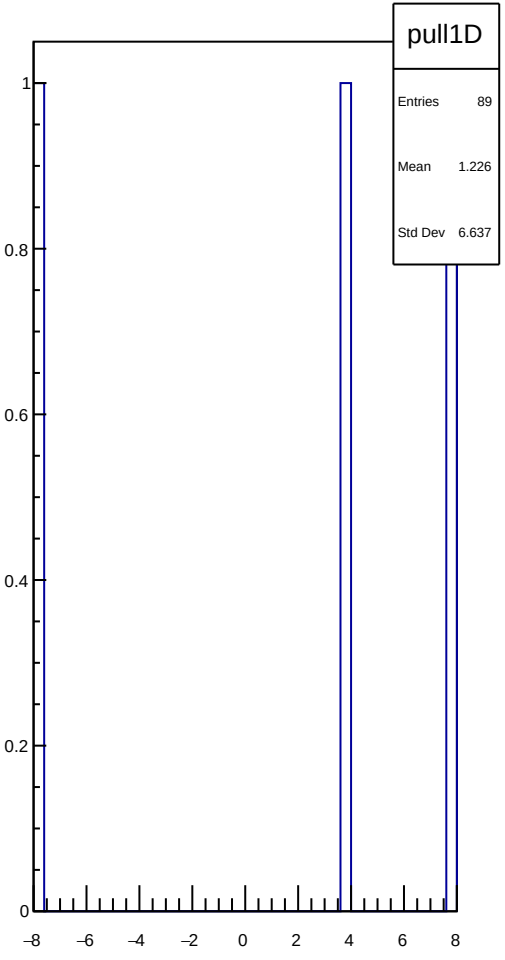

yield_bpm11X_rms vs run
χ² / ndf 1.435e+05 / 88
p0 0.01951 ± 1.549e–05
0.06
0.05
0.04
0.03
0.02
0.01

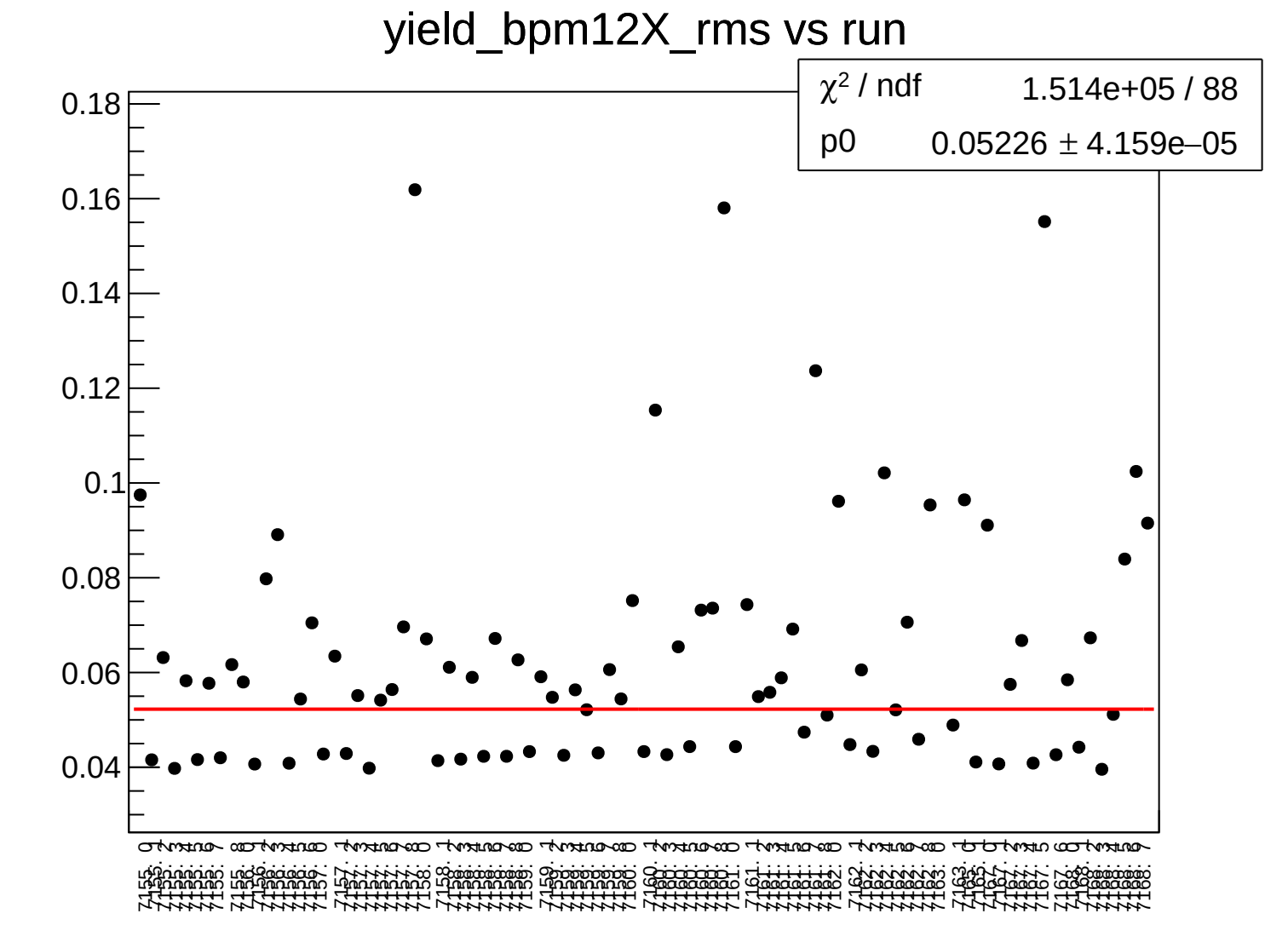

yield_bpm11Y_mean vs run
χ² / ndf 1.3e+07 / 88
p0 −2.509 ± 1.507e−05
pull
Entries 89
Mean 61.52
Std Dev 51.43

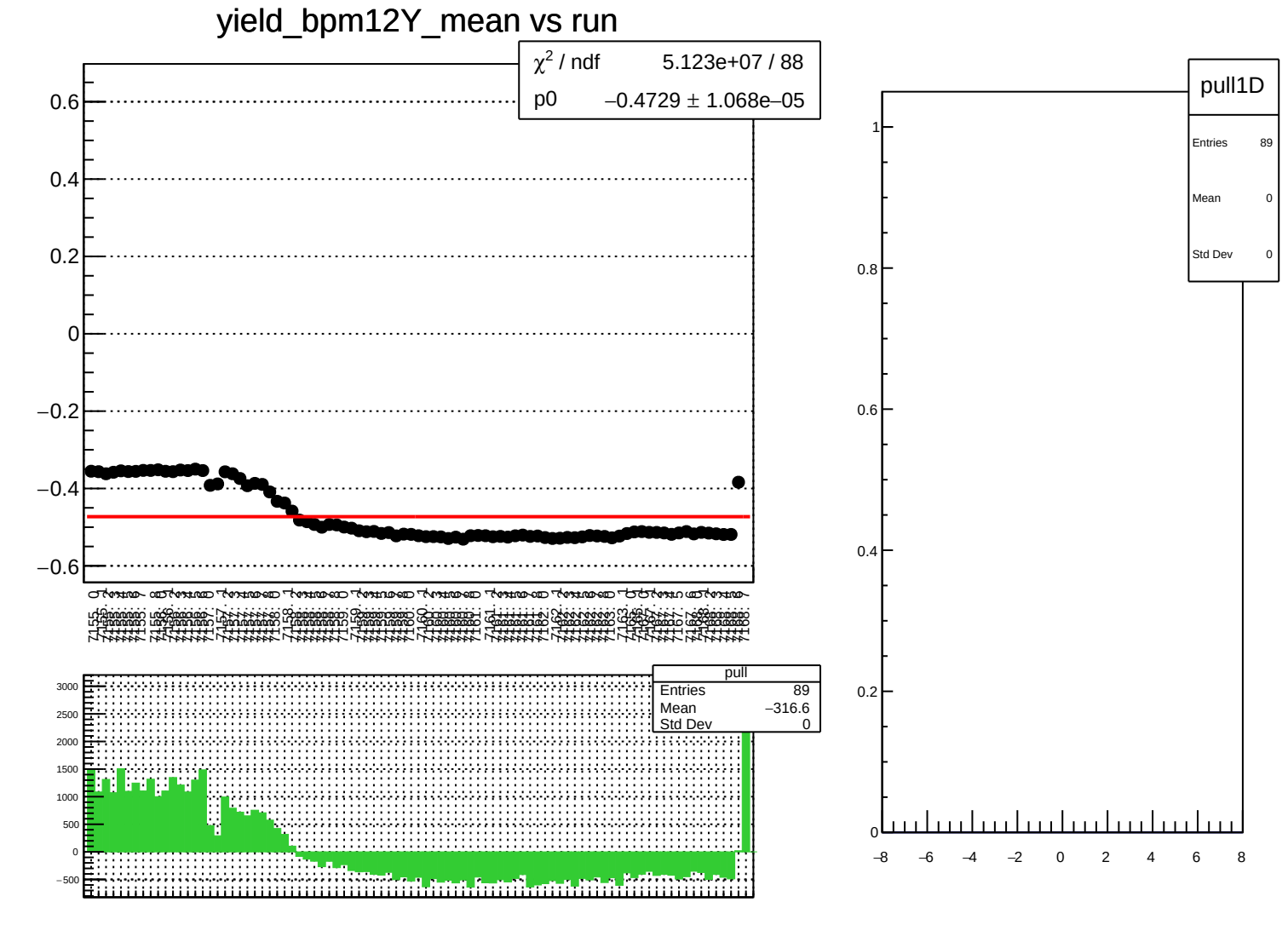

pull1D
Entries 89
Mean 0.7563
Std Dev 3.881

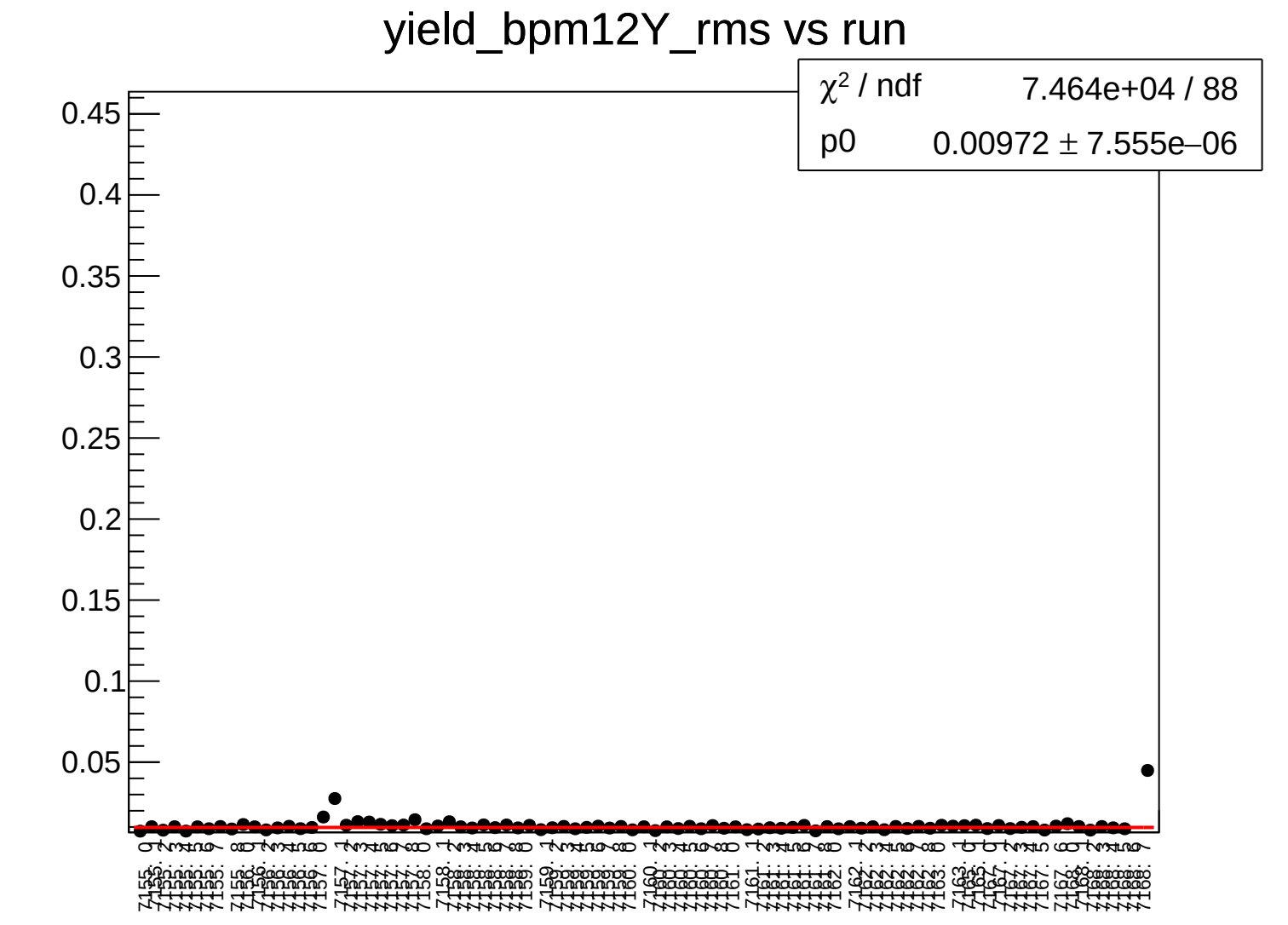

yield_bpm11Y_rms vs run
χ² / ndf 6.263e+04 / 88
p0 0.01376 ± 1.065e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

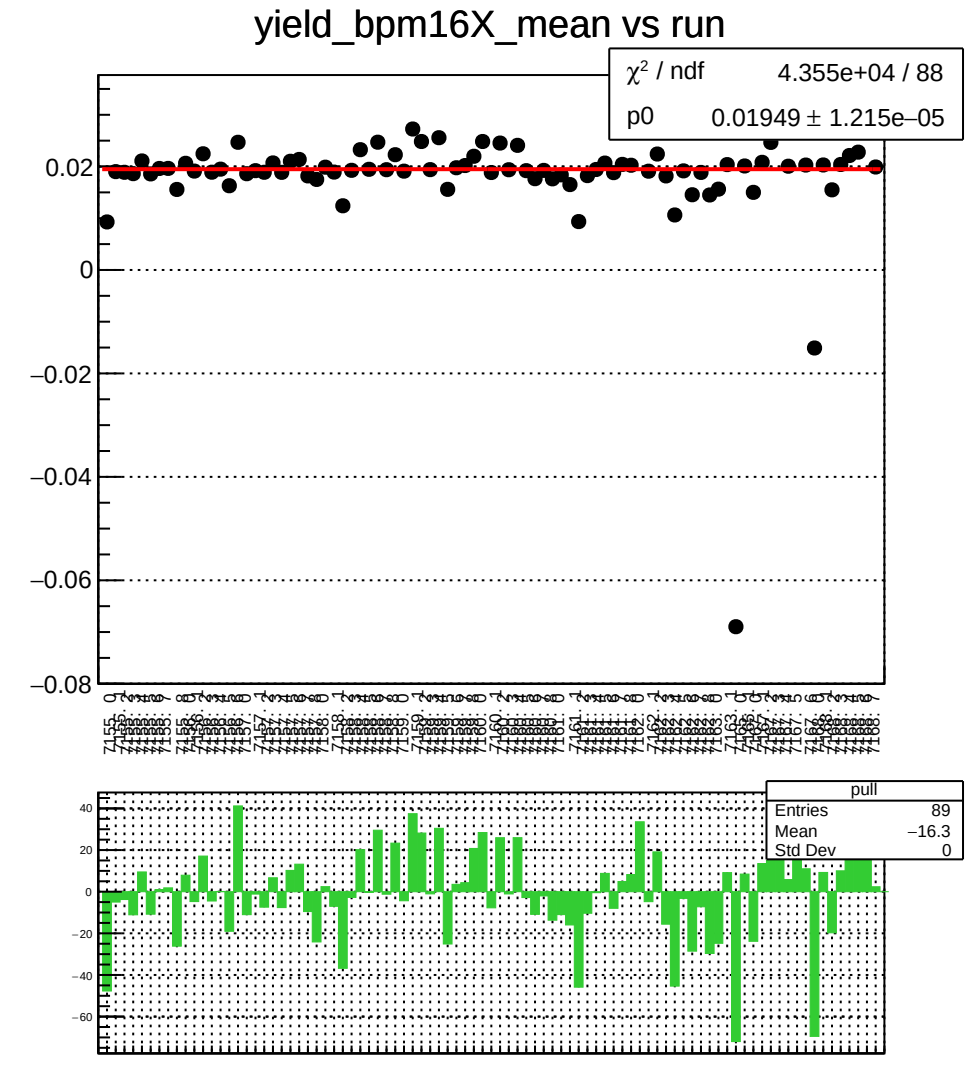

yield_bpm12X_mean vs run
χ² / ndf 1.222e+06 / 88
p0 −0.02884 ± 5.882e−05
pull
Entries 89
Mean 1039
Std Dev 0

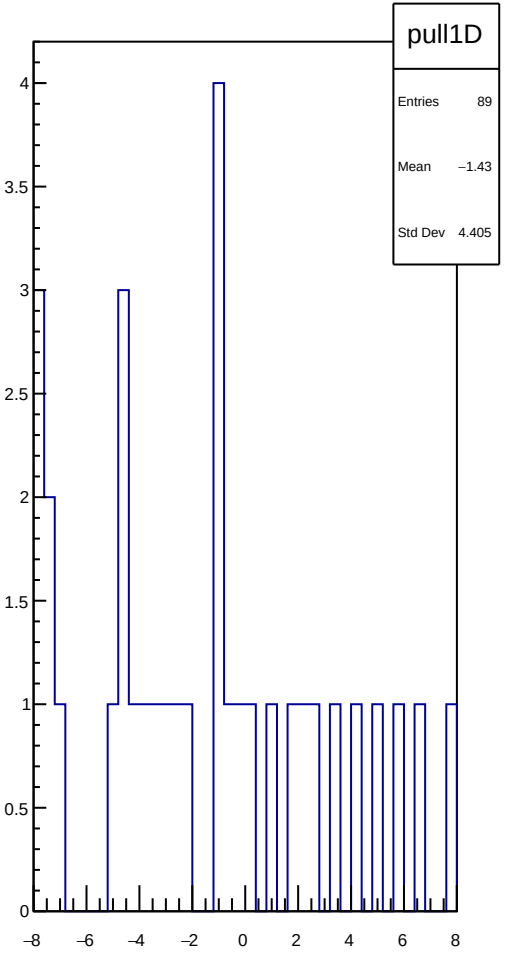

pull1D
Entries 89
Mean 1.226
Std Dev 6.637

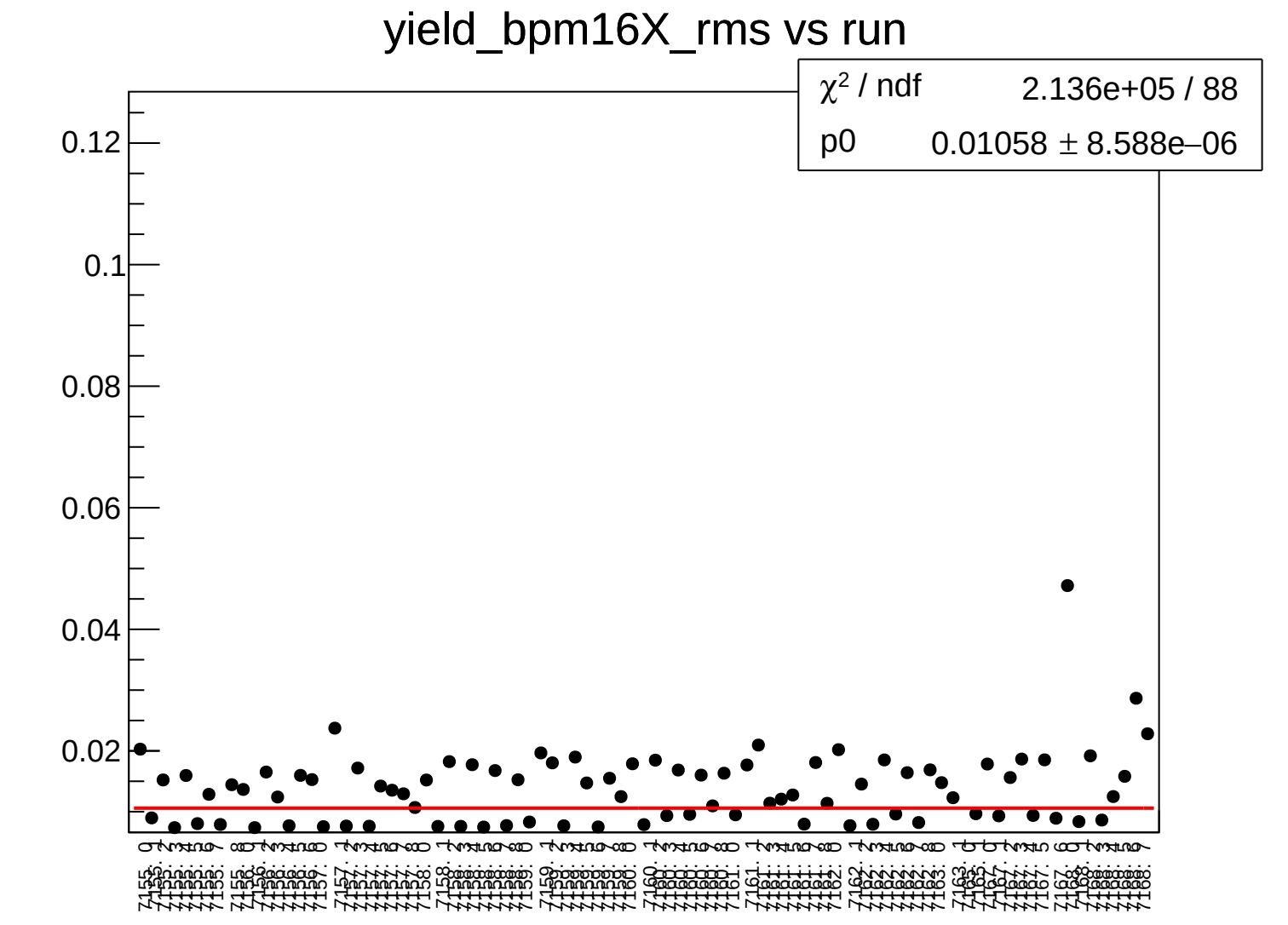

yield_bpm12X_rms vs run
χ² / ndf 1.514e+05 / 88
p0 0.05226 ± 4.159e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

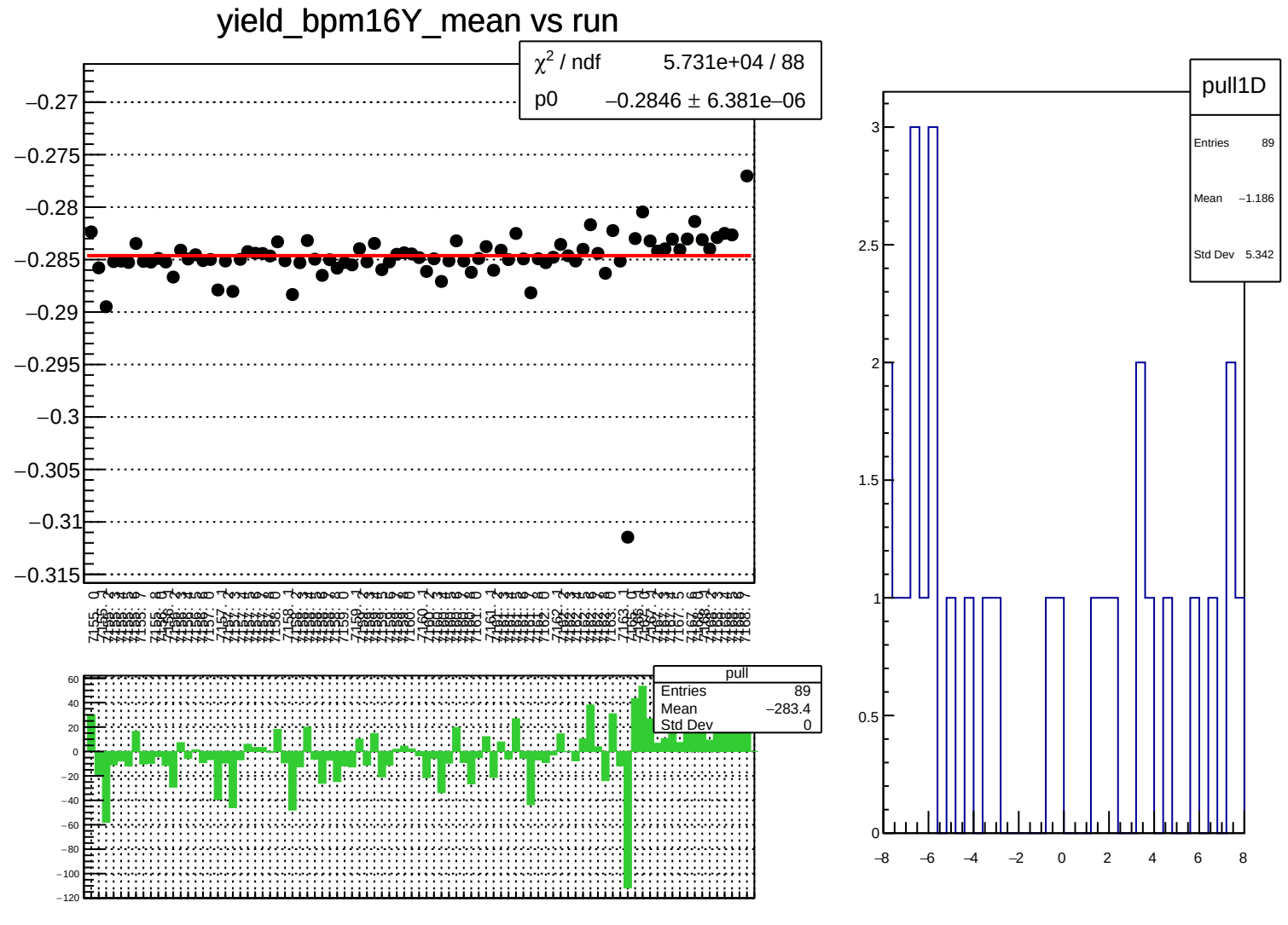

yield_bpm12Y_mean vs run
χ² / ndf 5.123e+07 / 88
p0 −0.4729 ± 1.068e−05
pull
Entries 89
Mean −316.6
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0

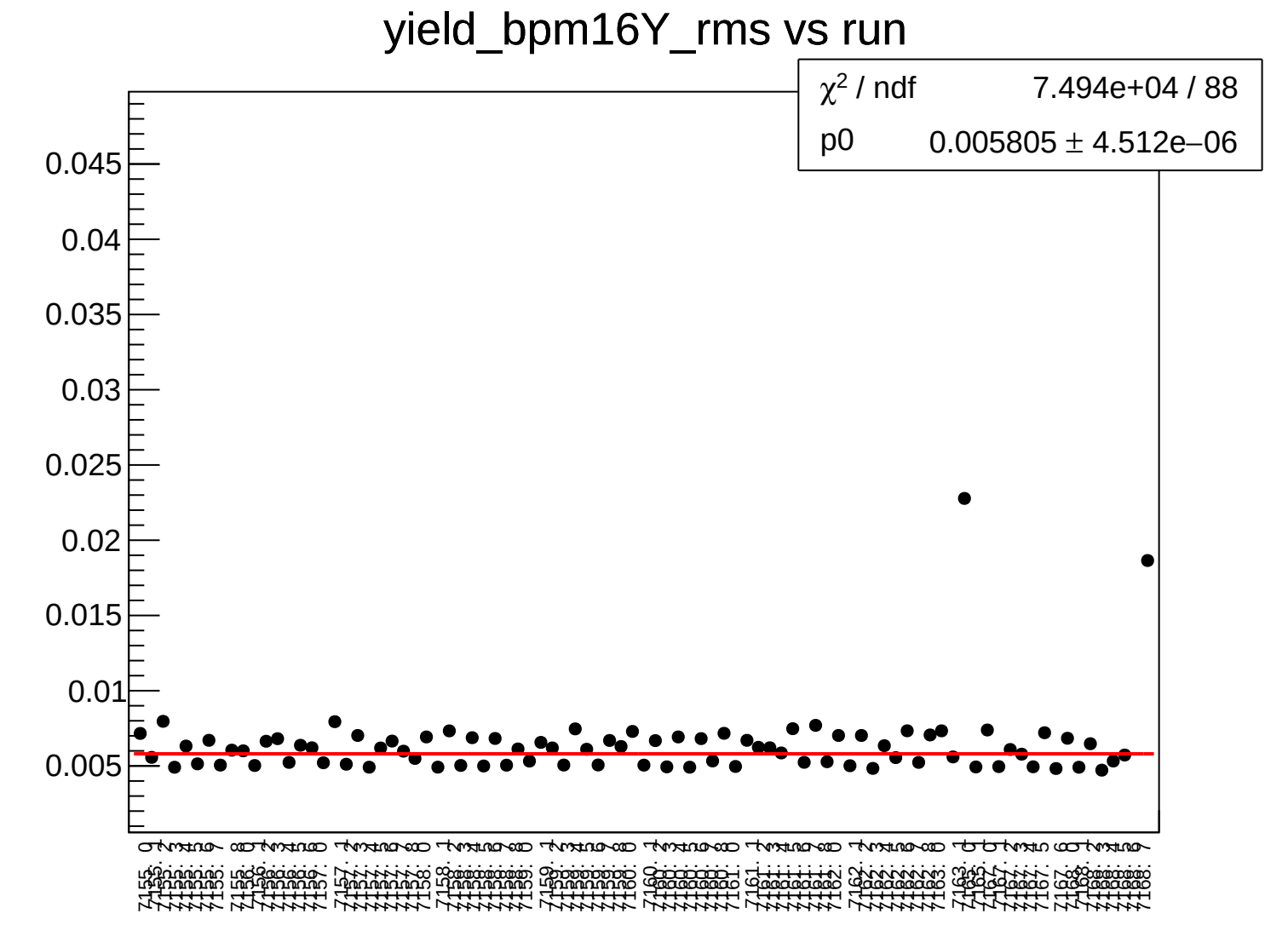

yield_bpm12Y_rms vs run
χ² / ndf 7.464e+04 / 88
p0 0.00972 ± 7.555e–06
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

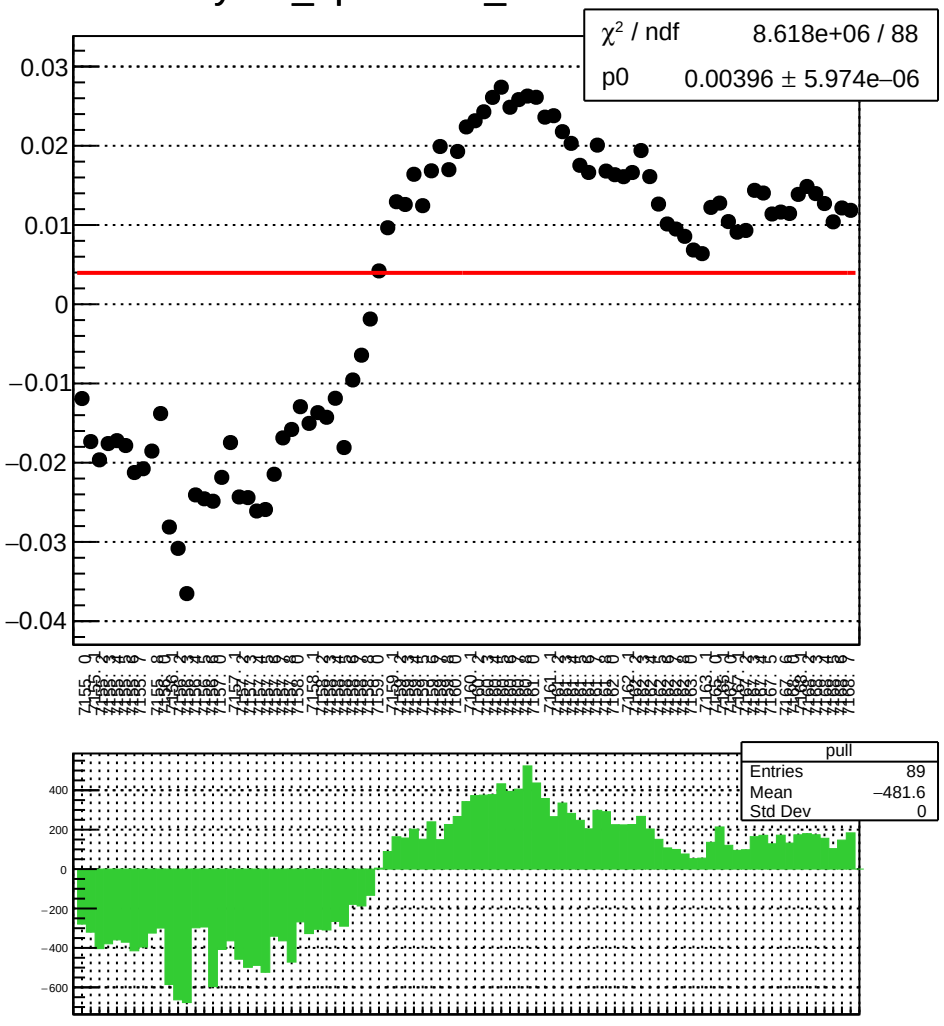

yield_bpm16X_mean vs run
χ² / ndf 4.355e+04 / 88
p0 0.01949 ± 1.215e–05
0.02
0
–0.02
–0.04
–0.06
–0.08
pull
Entries 89
Mean –16.3
Std Dev 0
40
20
0
–20
–40
–60

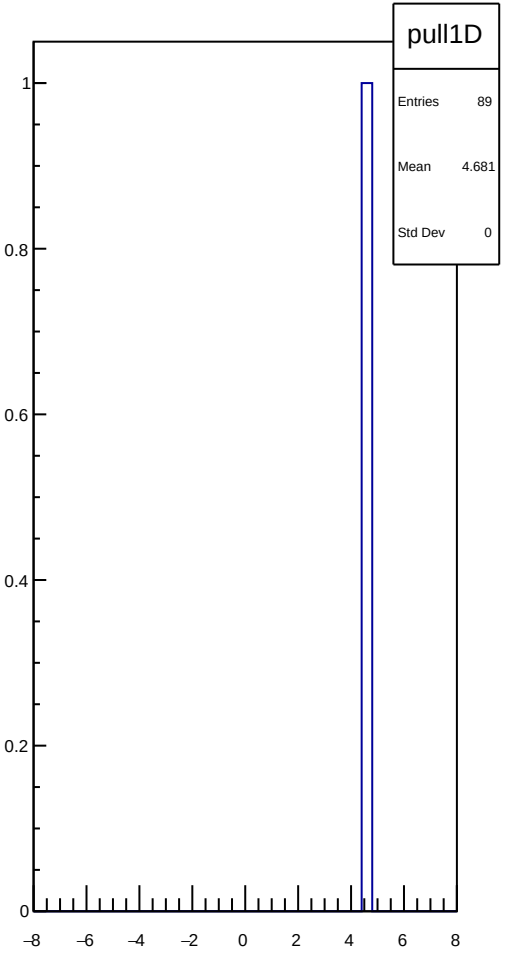

pull1D
Entries 89
Mean –1.43
Std Dev 4.405
4
3.5
3
2.5
2
1.5
1
0.5
0
–8
–6
–4
–2
0
2
4
6
8

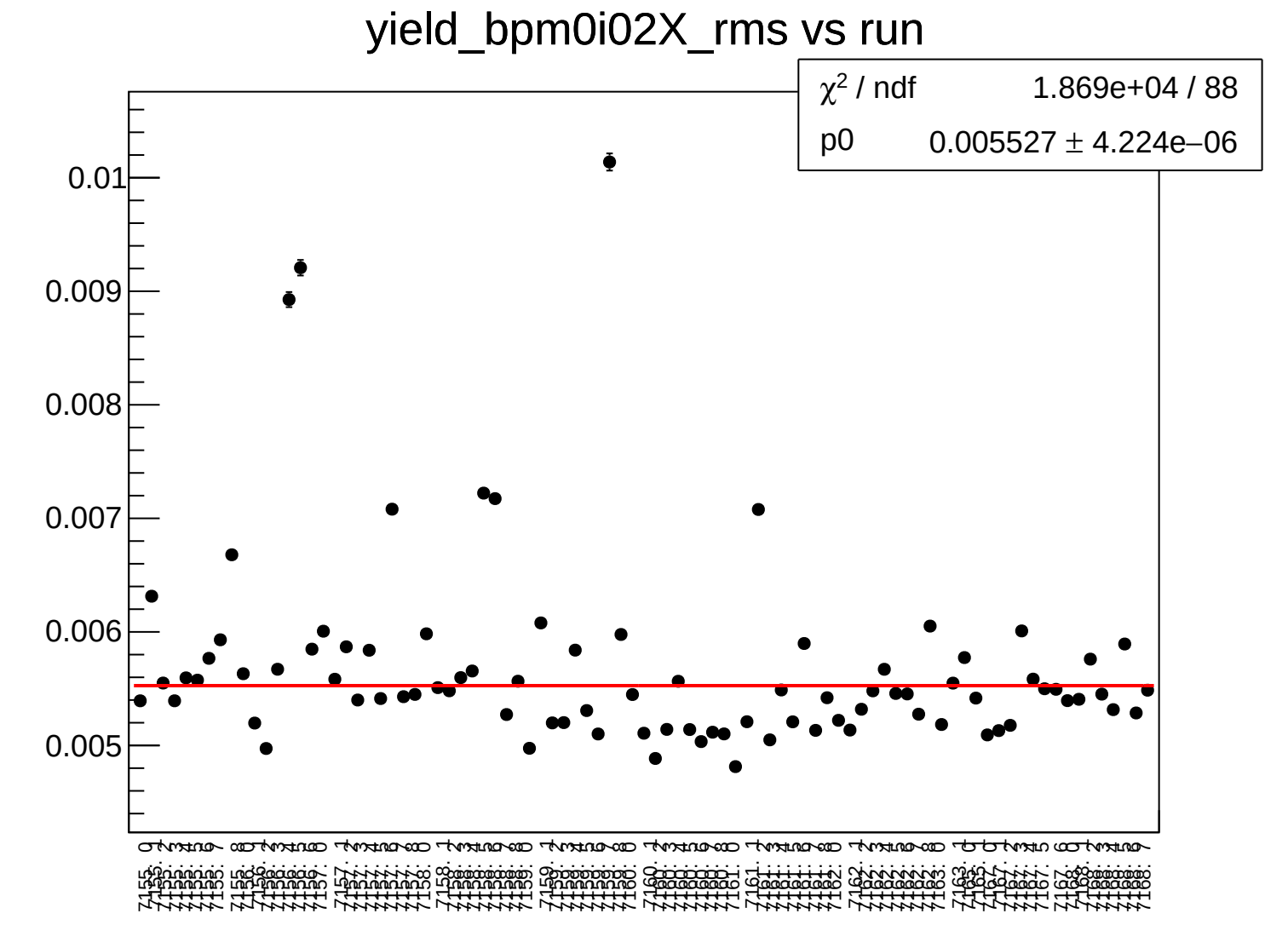

yield_bpm16X_rms vs run
χ² / ndf 2.136e+05 / 88
p0 0.01058 ± 8.588e–06
0.12
0.1
0.08
0.06
0.04
0.02

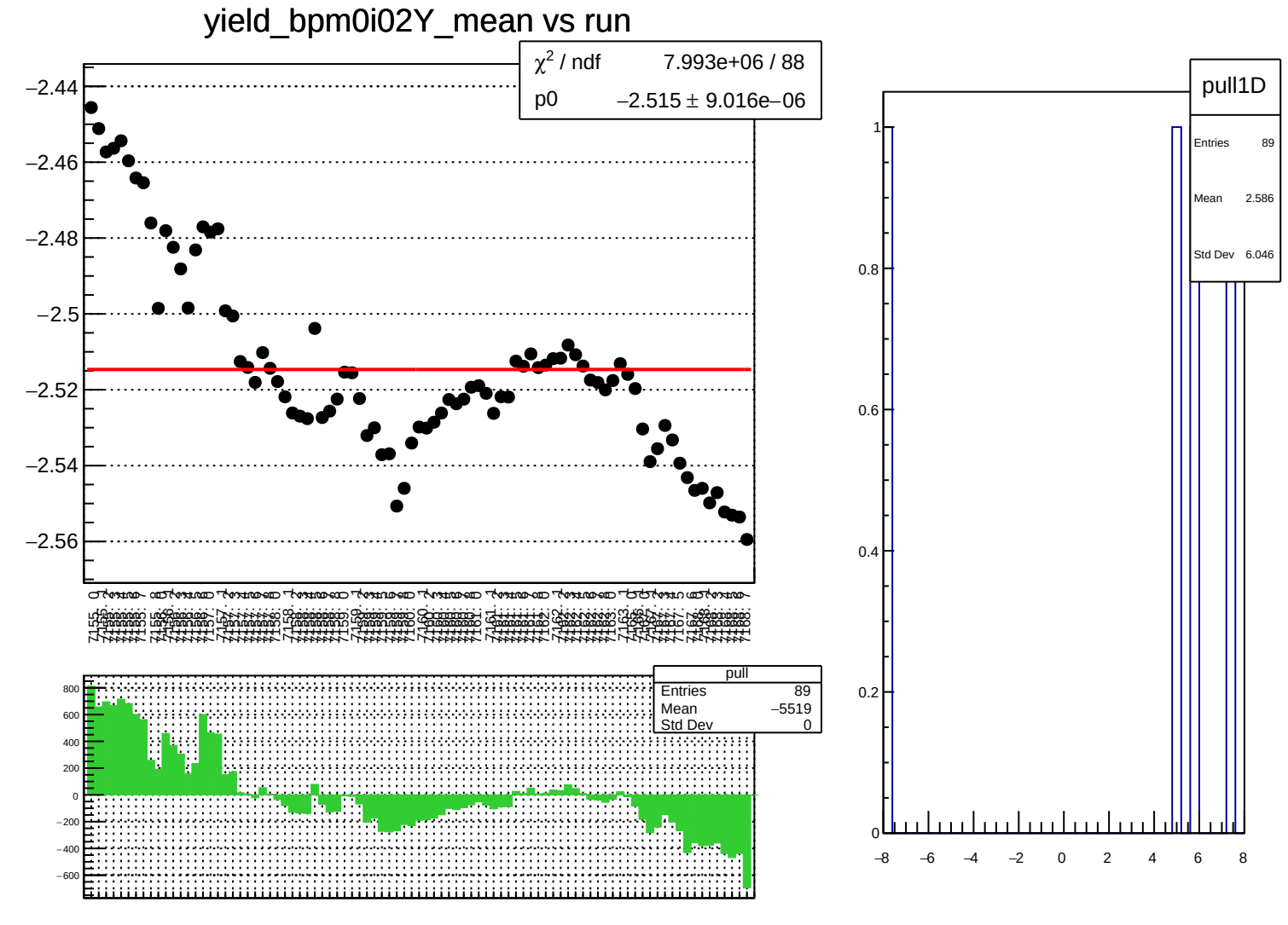

yield_bpm16Y_mean vs run
χ² / ndf 5.731e+04 / 88
p0 −0.2846 ± 6.381e−06
−0.27
−0.275
−0.28
−0.285
−0.29
−0.295
−0.3
−0.305
−0.31
−0.315
pull
Entries 89
Mean −283.4
Std Dev 0
60
40
20
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 89
Mean −1.186
Std Dev 5.342
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

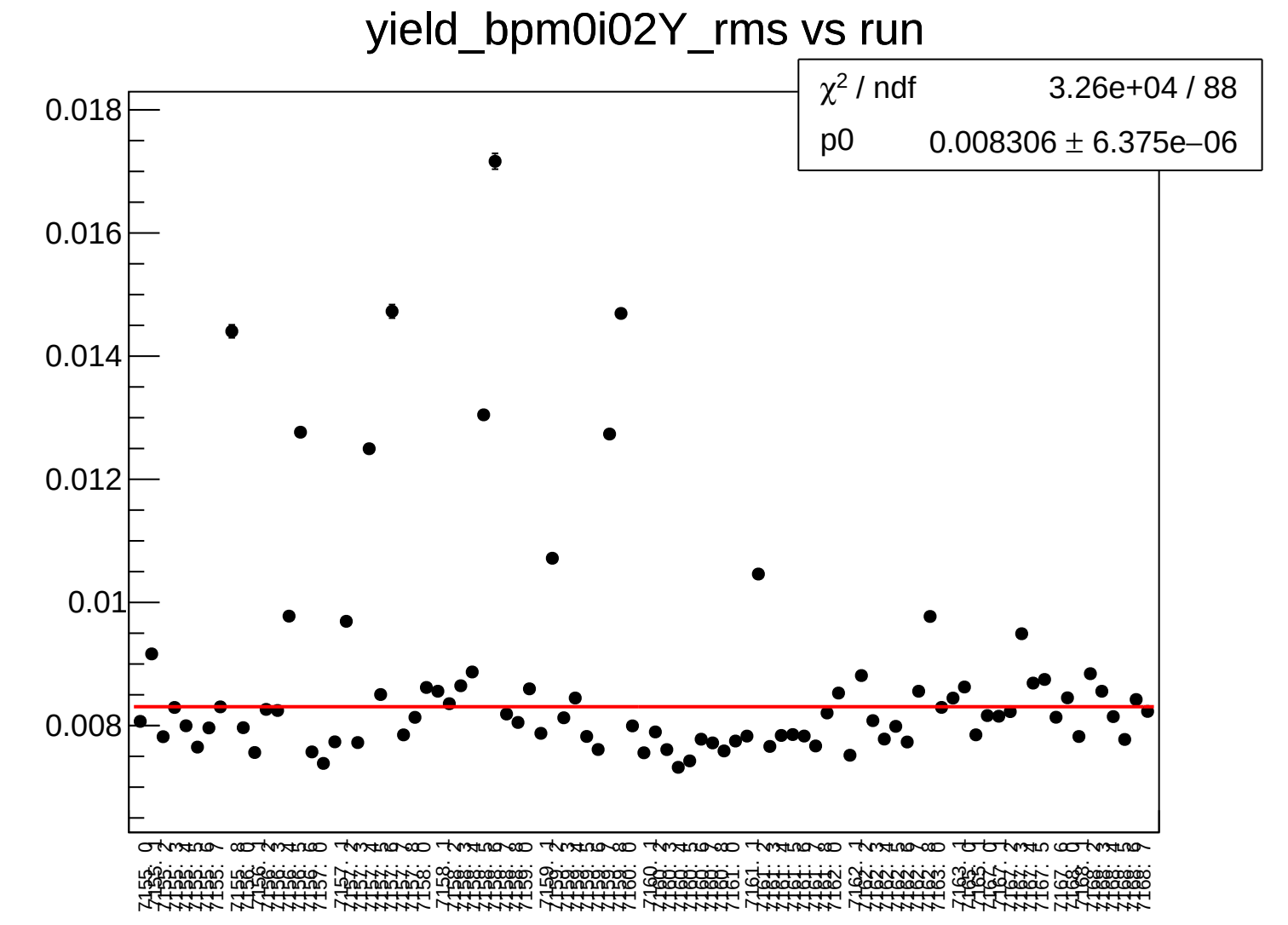

yield_bpm16Y_rms vs run
χ^2 / ndf 7.494e+04 / 88
p0 0.005805 ± 4.512e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

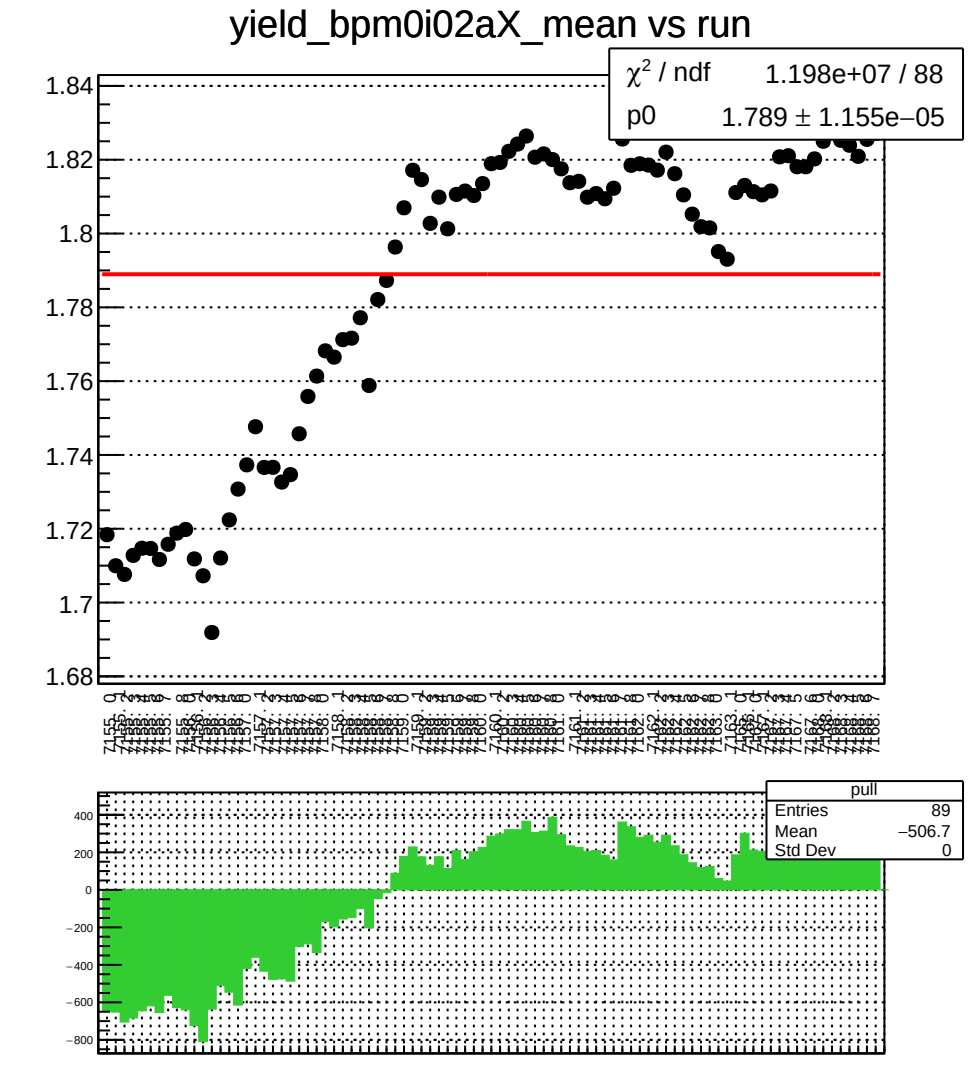

yield_bpm0i02X_mean vs run
χ² / ndf 8.618e+06 / 88
p0 0.00396 ± 5.974e−06
pull
Entries 89
Mean −481.6
Std Dev 0

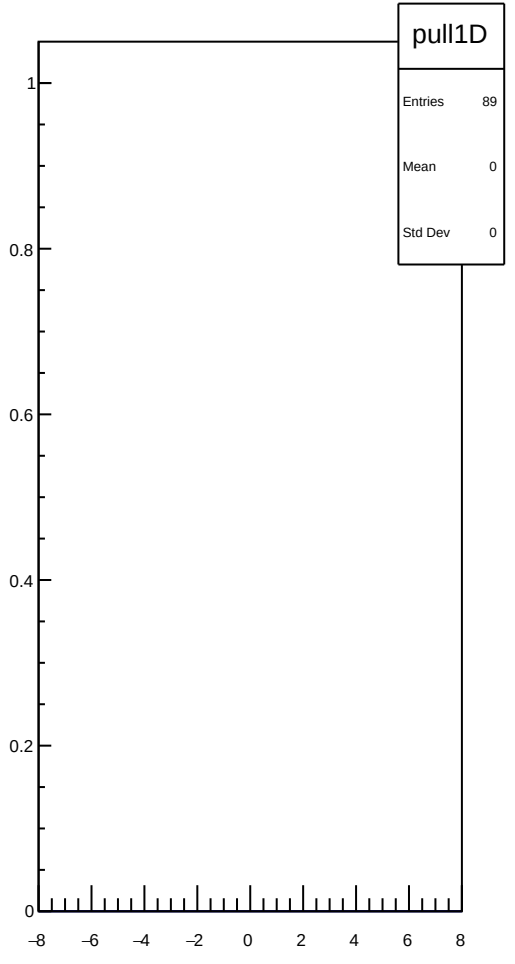

pull1D
Entries 89
Mean 4.681
Std Dev 0

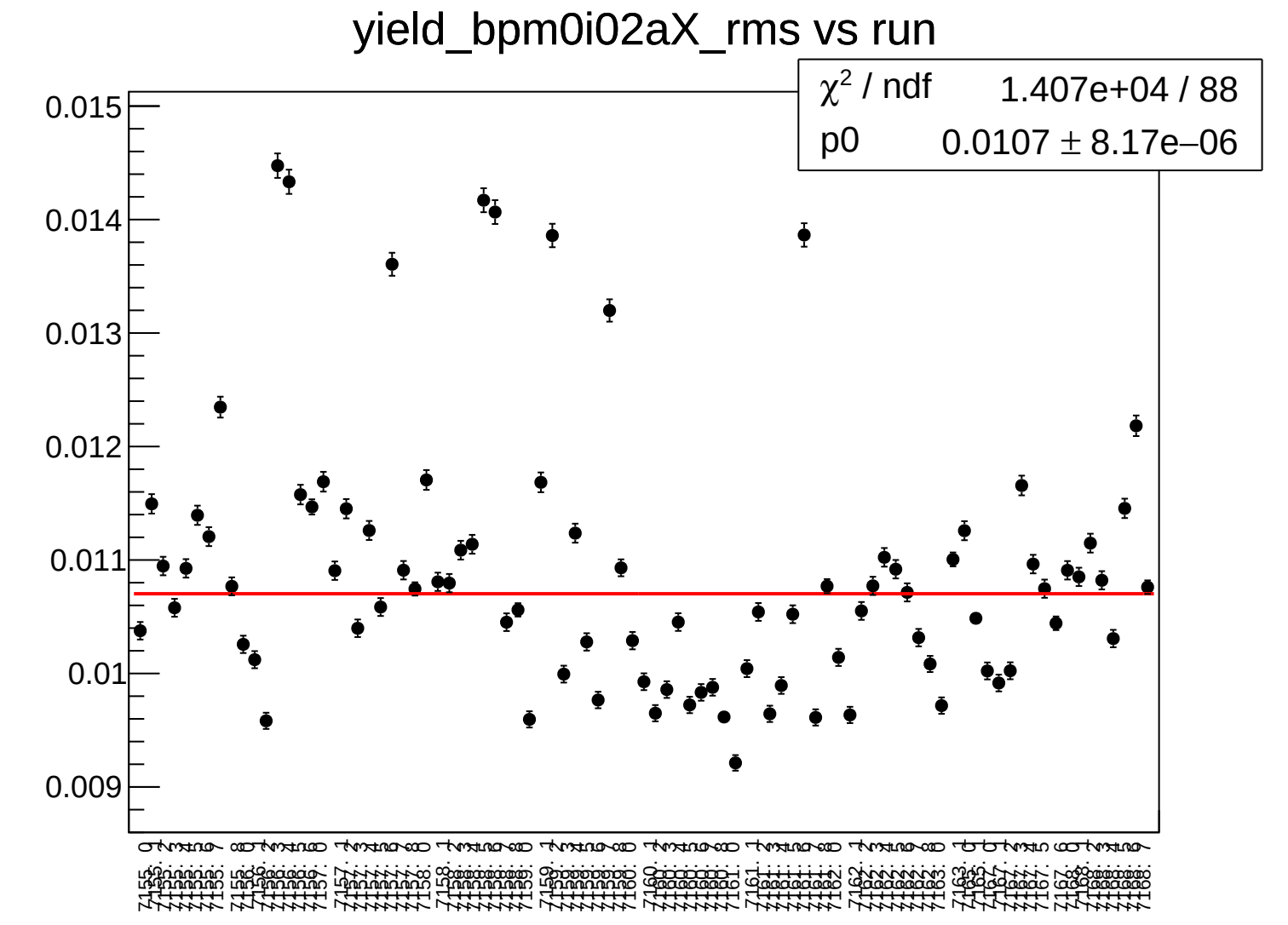

yield_bpm0i02X_rms vs run
χ² / ndf 1.869e+04 / 88
p0 0.005527 ± 4.224e−06
0.01
0.009
0.008
0.007
0.006
0.005

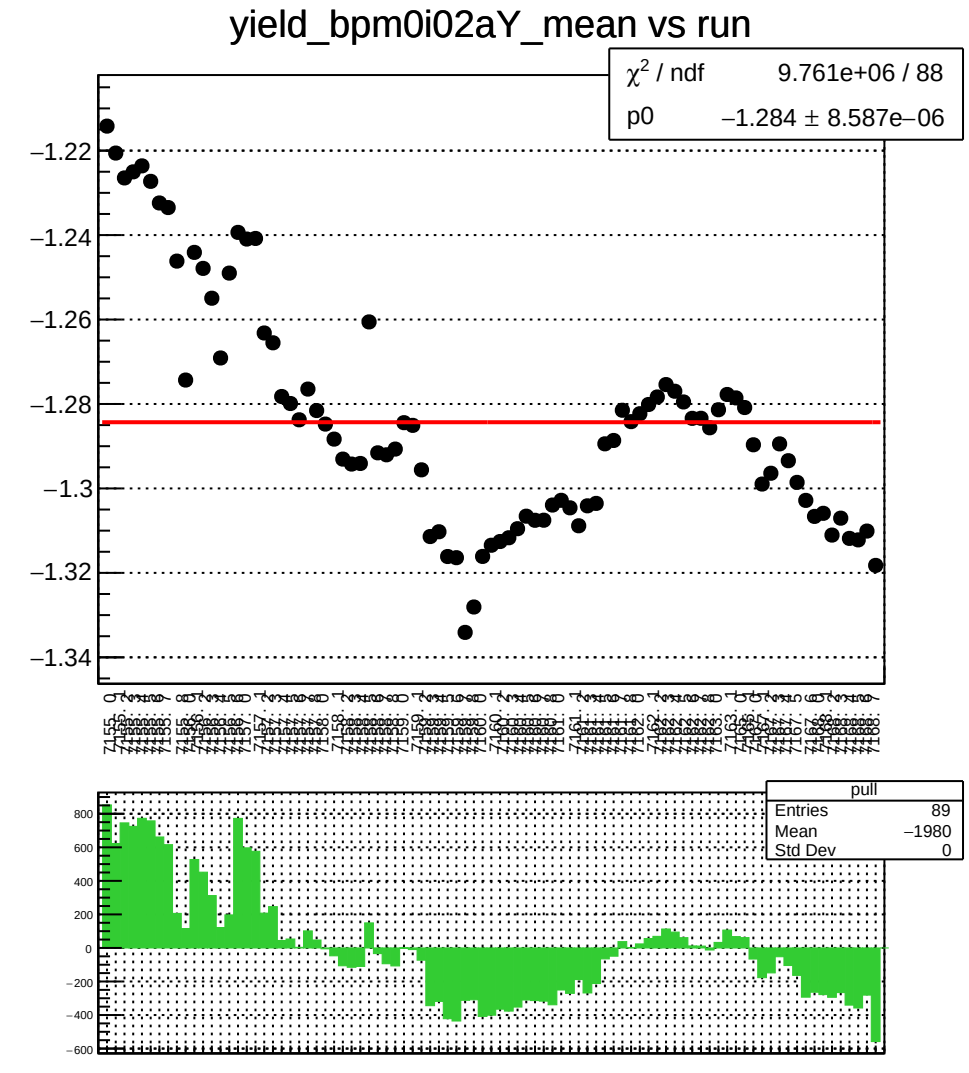

yield_bpm0i02Y_mean vs run
χ² / ndf 7.993e+06 / 88
p0 −2.515 ± 9.016e−06
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
pull
Entries 89
Mean −5519
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 2.586
Std Dev 6.046
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

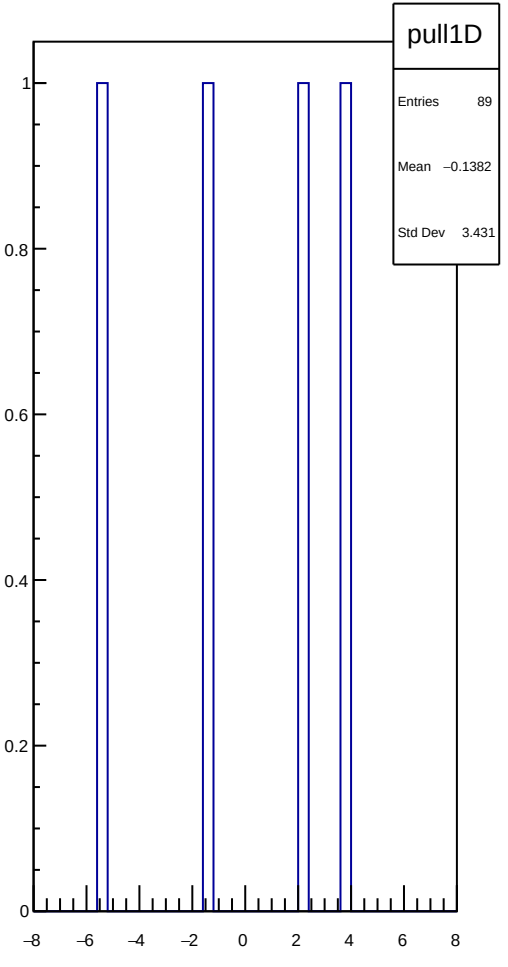

yield_bpm0i02Y_rms vs run
χ² / ndf 3.26e+04 / 88
p0 0.008306 ± 6.375e−06
0.018
0.016
0.014
0.012
0.01
0.008

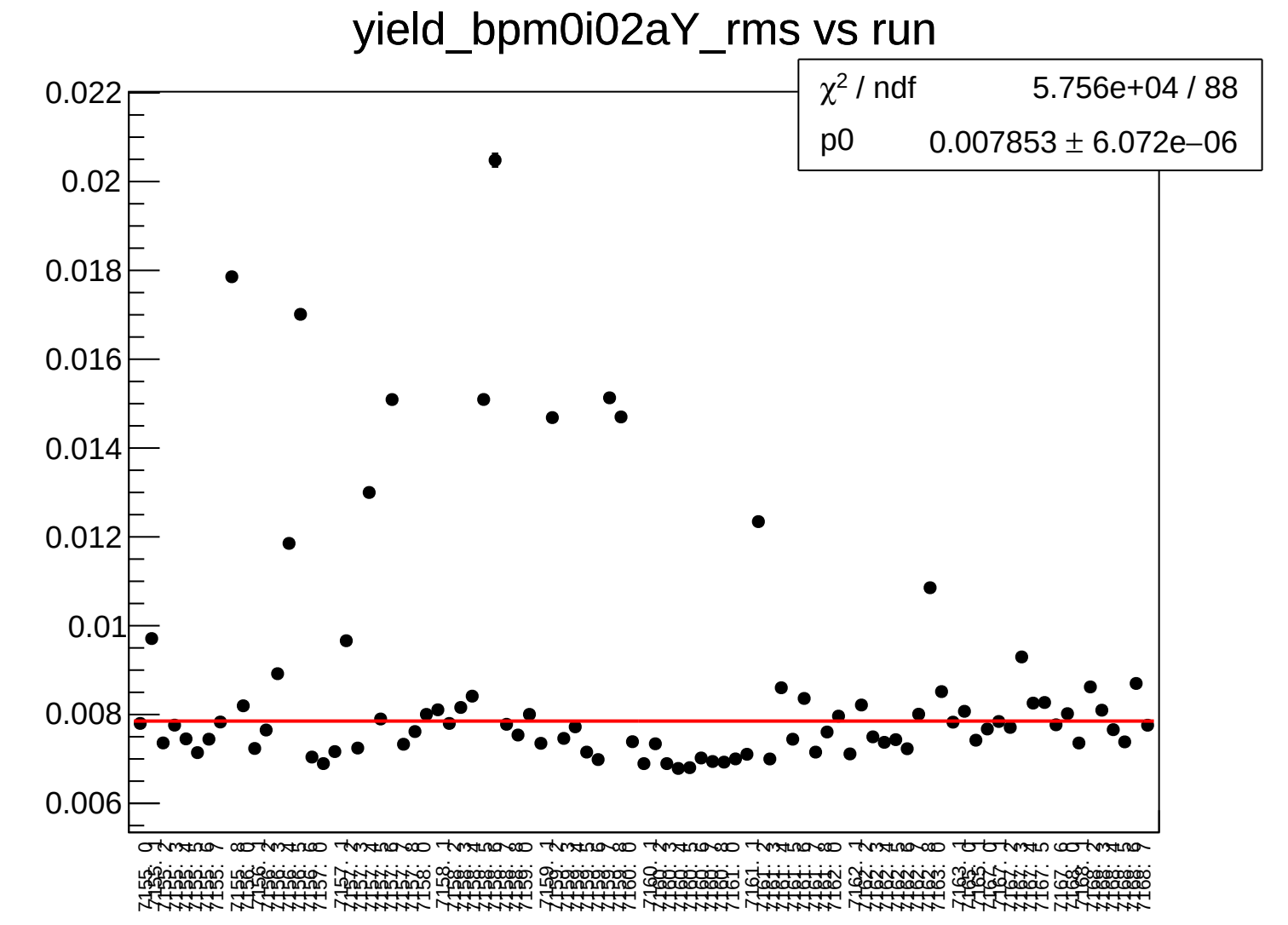

yield_bpm0i02aX_mean vs run
χ² / ndf 1.198e+07 / 88
p0 1.789 ± 1.155e−05
1.84
1.82
1.8
1.78
1.76
1.74
1.72
1.7
1.68
pull
Entries 89
Mean −506.7
Std Dev 0
400
200
0
−200
−400
−600
−800

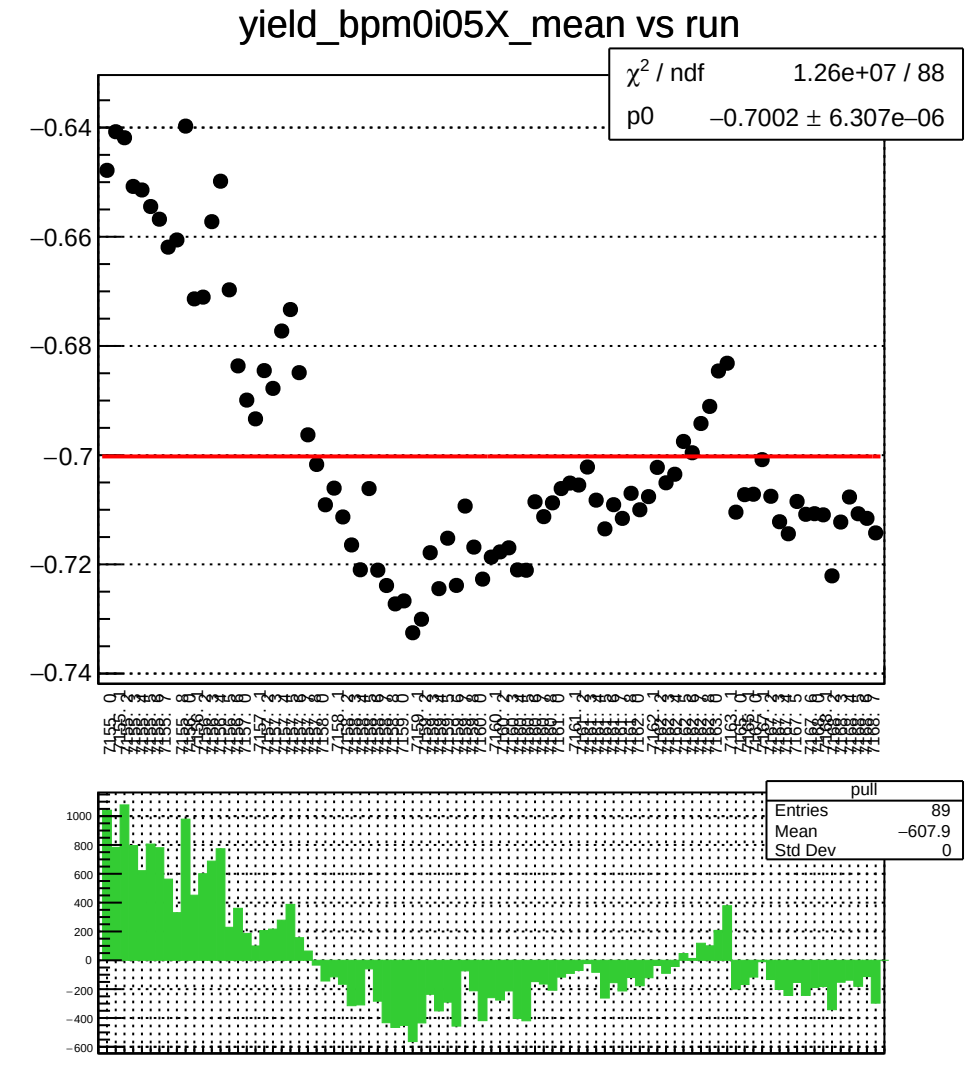

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

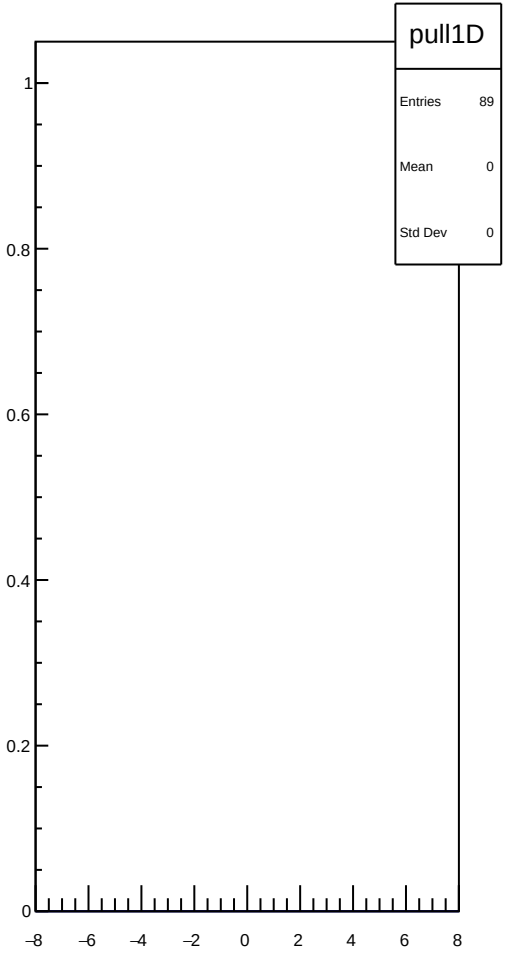

yield_bpm0i02aX_rms vs run
χ² / ndf 1.407e+04 / 88
p0 0.0107 ± 8.17e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

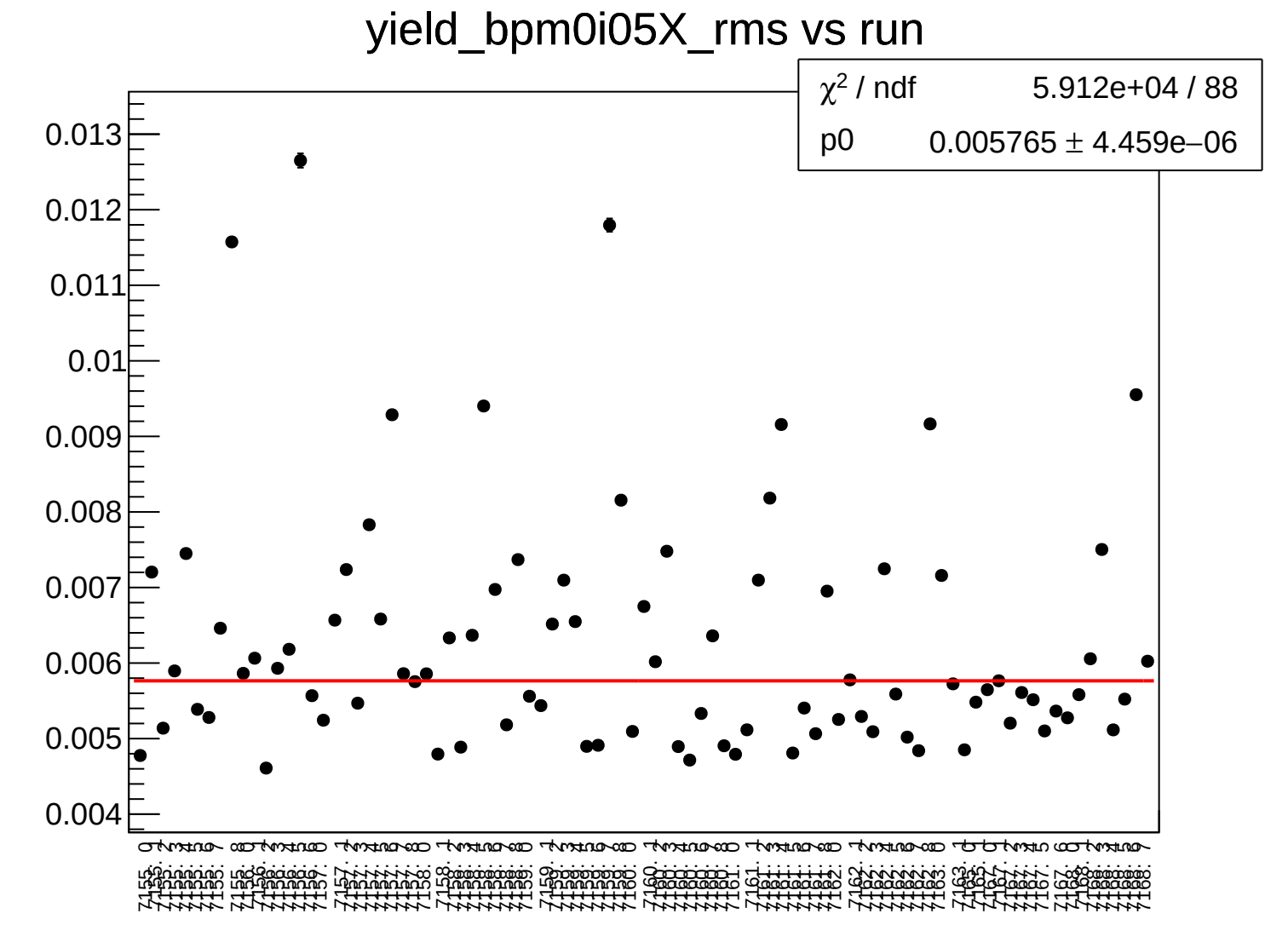

yield_bpm0i02aY_mean vs run
χ² / ndf 9.761e+06 / 88
p0 −1.284 ± 8.587e−06
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
−1.34
pull
Entries 89
Mean −1980
Std Dev 0
800
600
400
200
0
−200
−400
−600

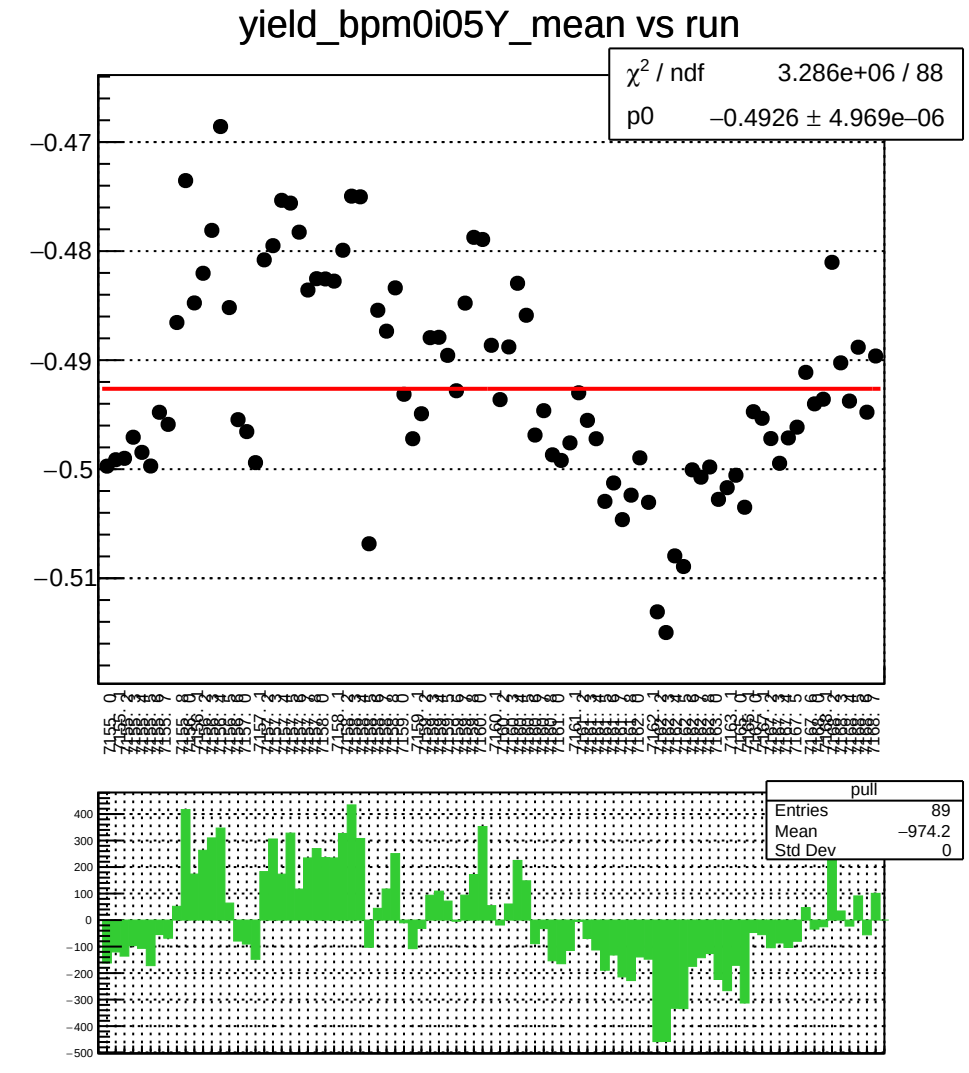

pull1D
Entries 89
Mean −0.1382
Std Dev 3.431
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

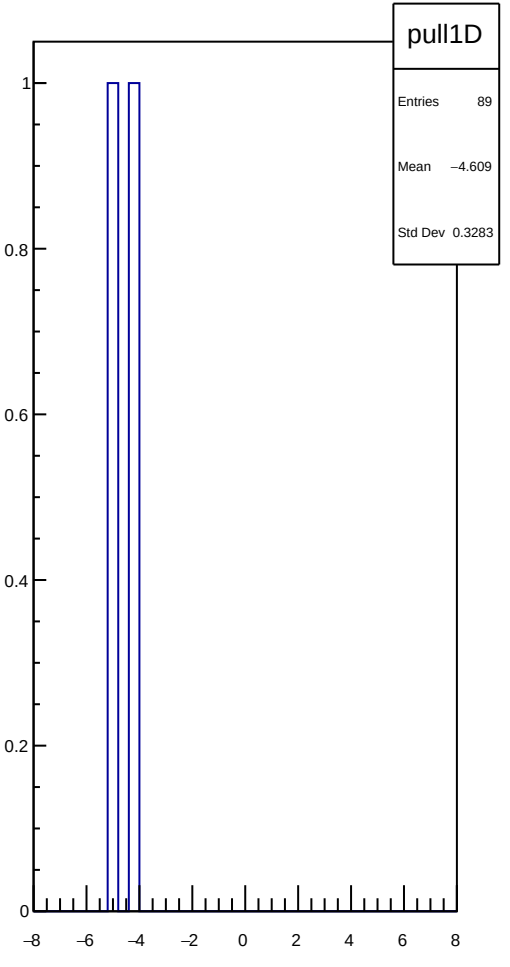

yield_bpm0i02aY_rms vs run
χ² / ndf 5.756e+04 / 88
p0 0.007853 ± 6.072e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

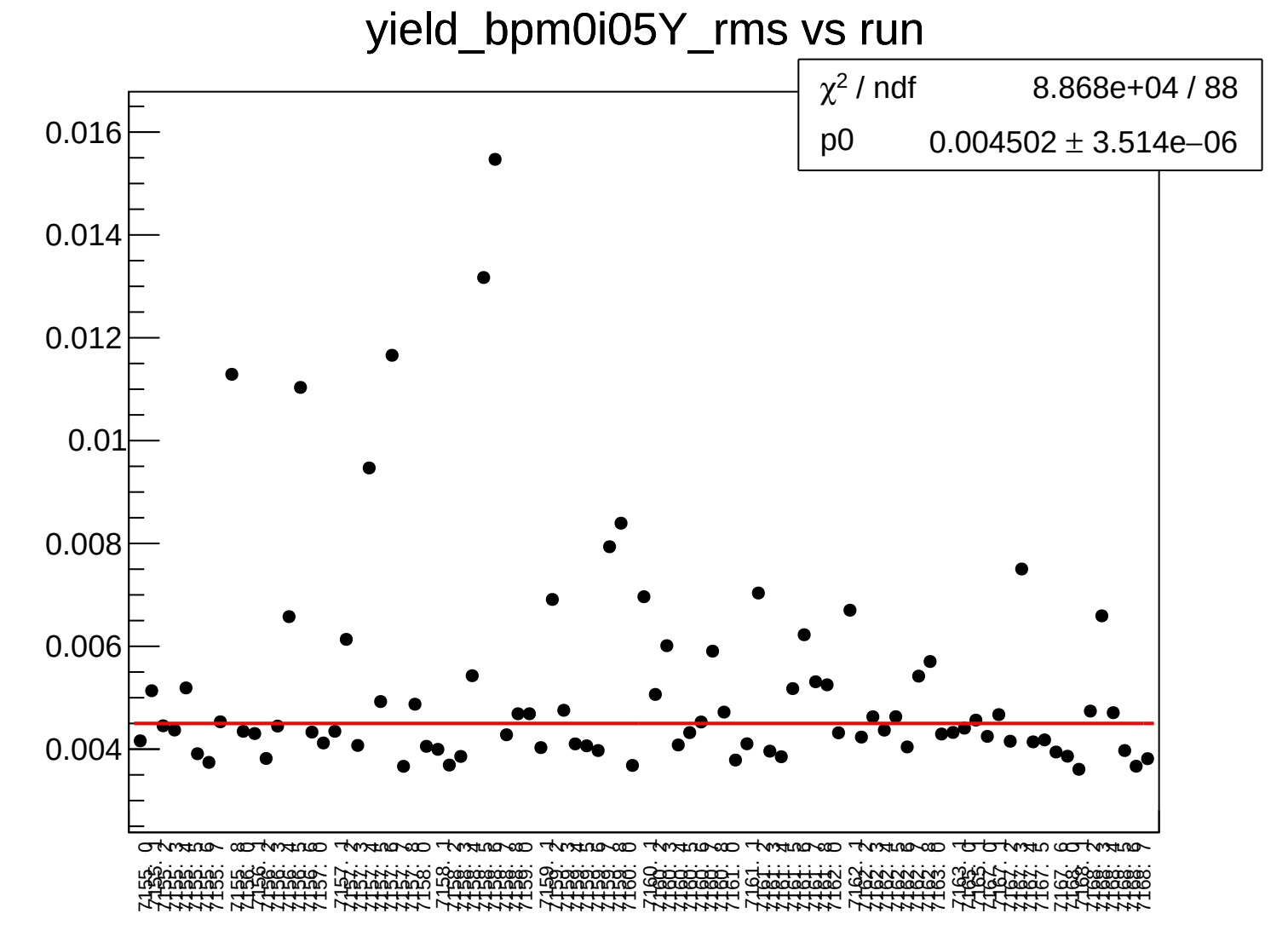

yield_bpm0i05X_mean vs run
χ² / ndf 1.26e+07 / 88
p0 −0.7002 ± 6.307e−06
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 89
Mean −607.9
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

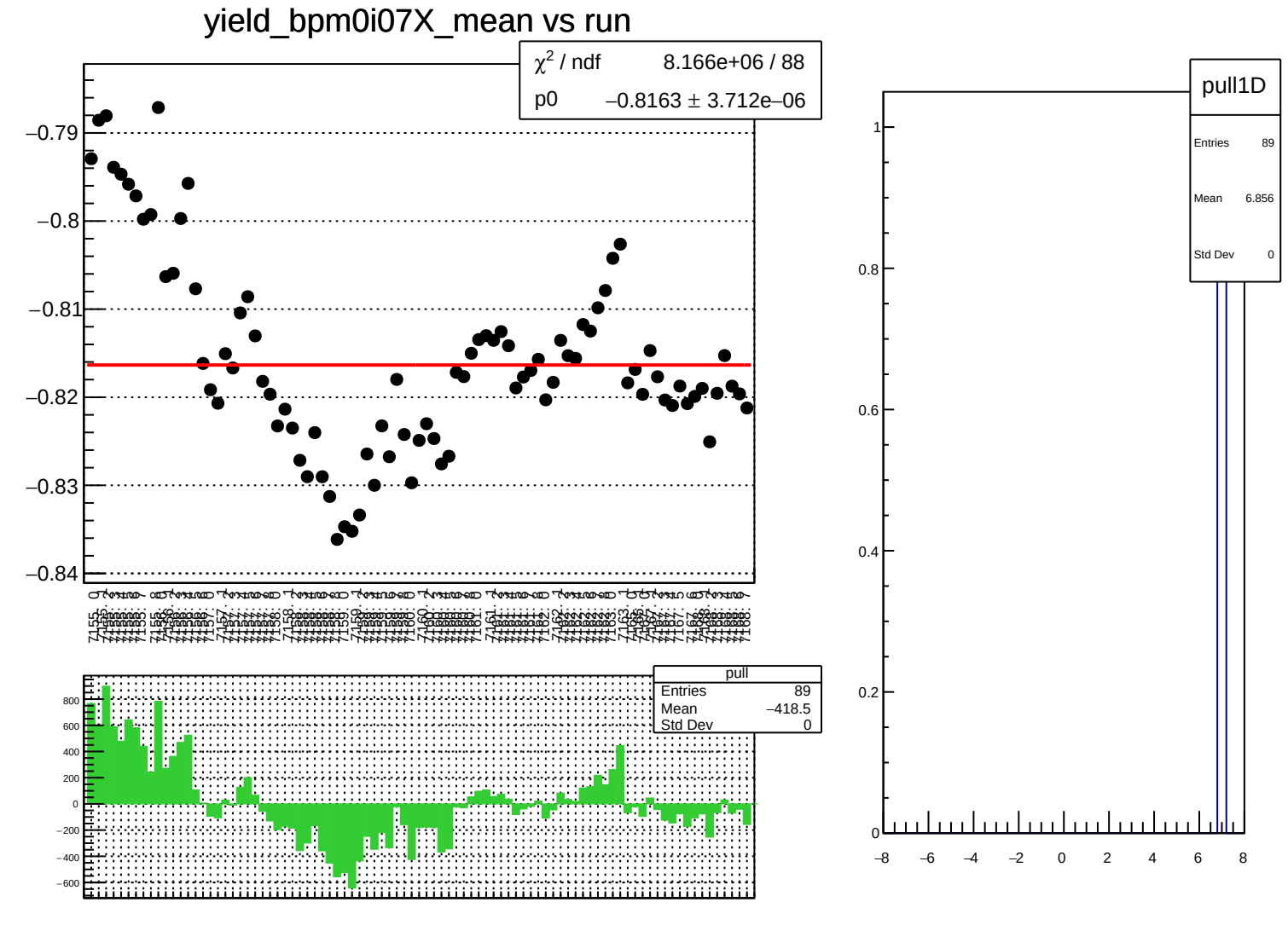

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

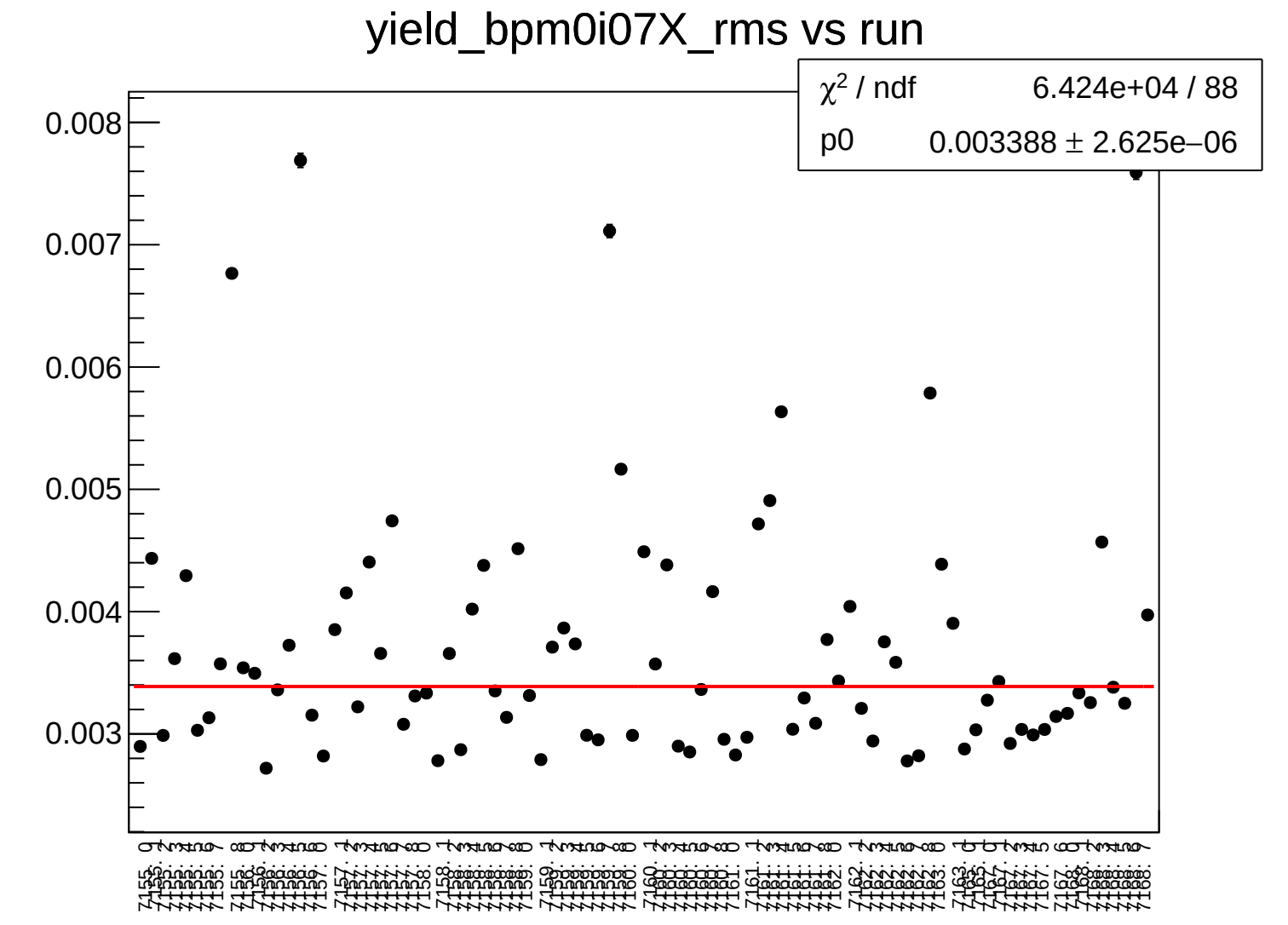

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.912e+04 / 88
p0 0.005765 ± 4.459e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

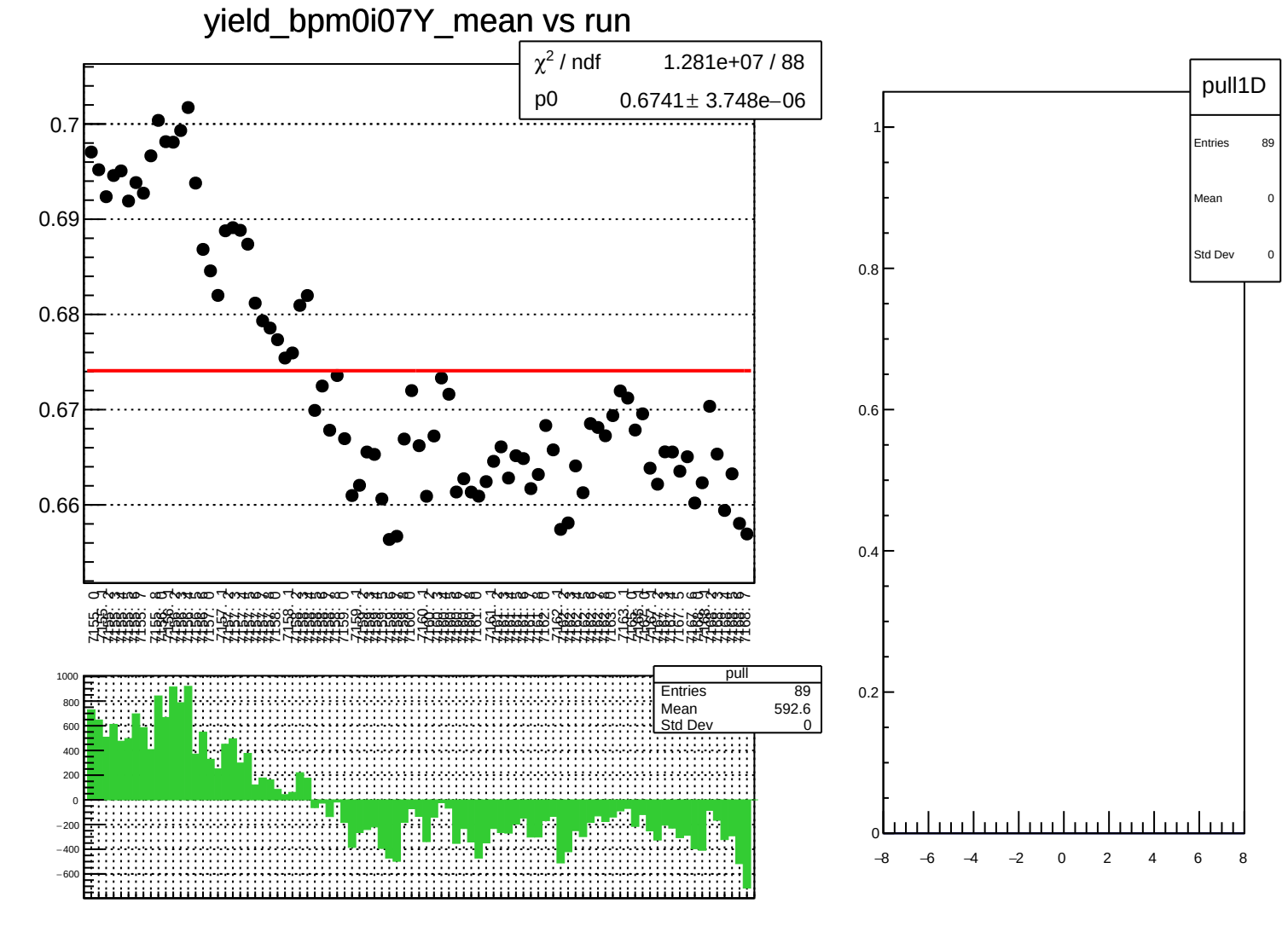

yield_bpm0i05Y_mean vs run
χ² / ndf 3.286e+06 / 88
p0 −0.4926 ± 4.969e−06
−0.47
−0.48
−0.49
−0.5
−0.51
pull
Entries 89
Mean −974.2
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

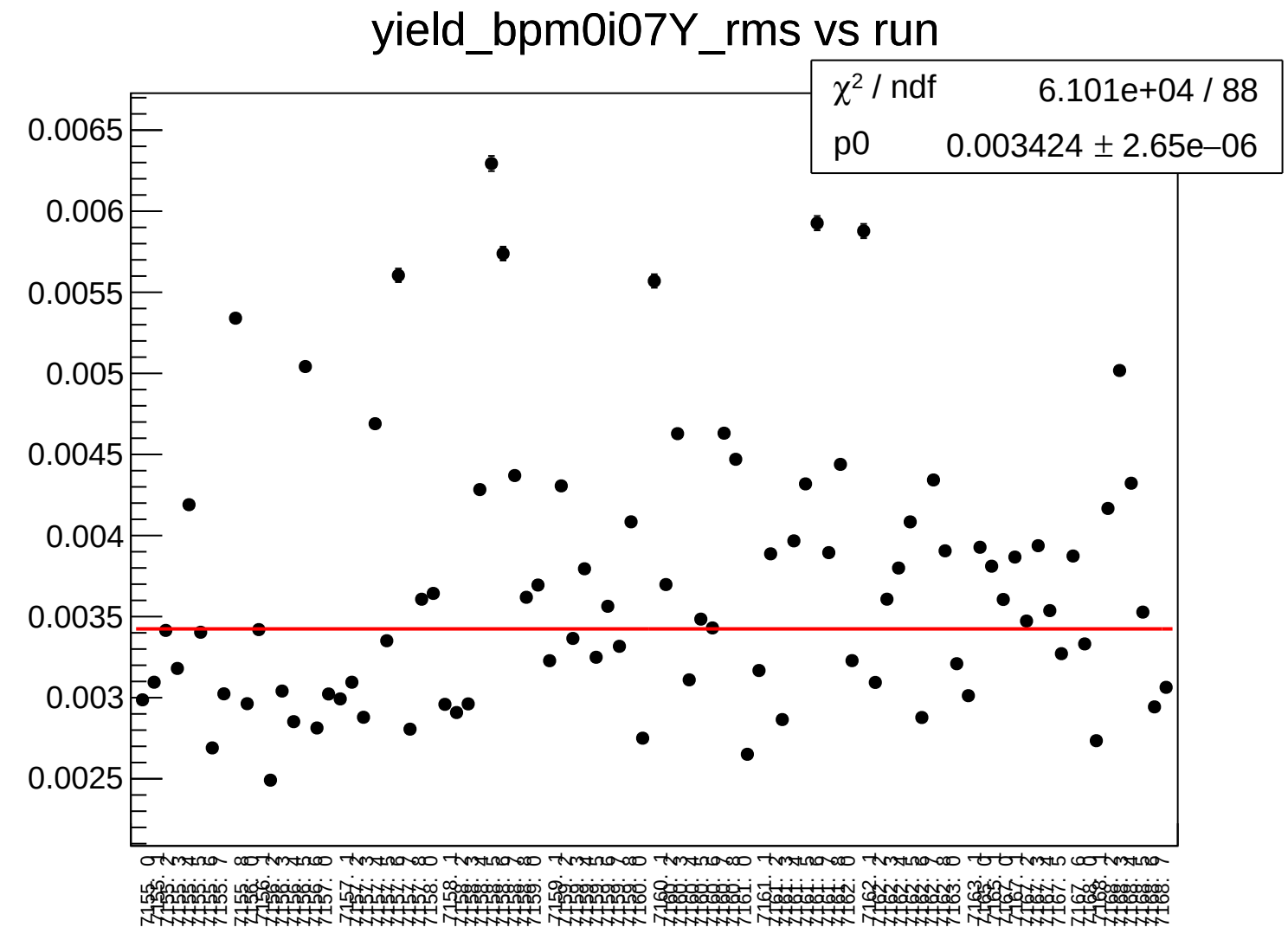

pull1D
Entries 89
Mean −4.609
Std Dev 0.3283
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

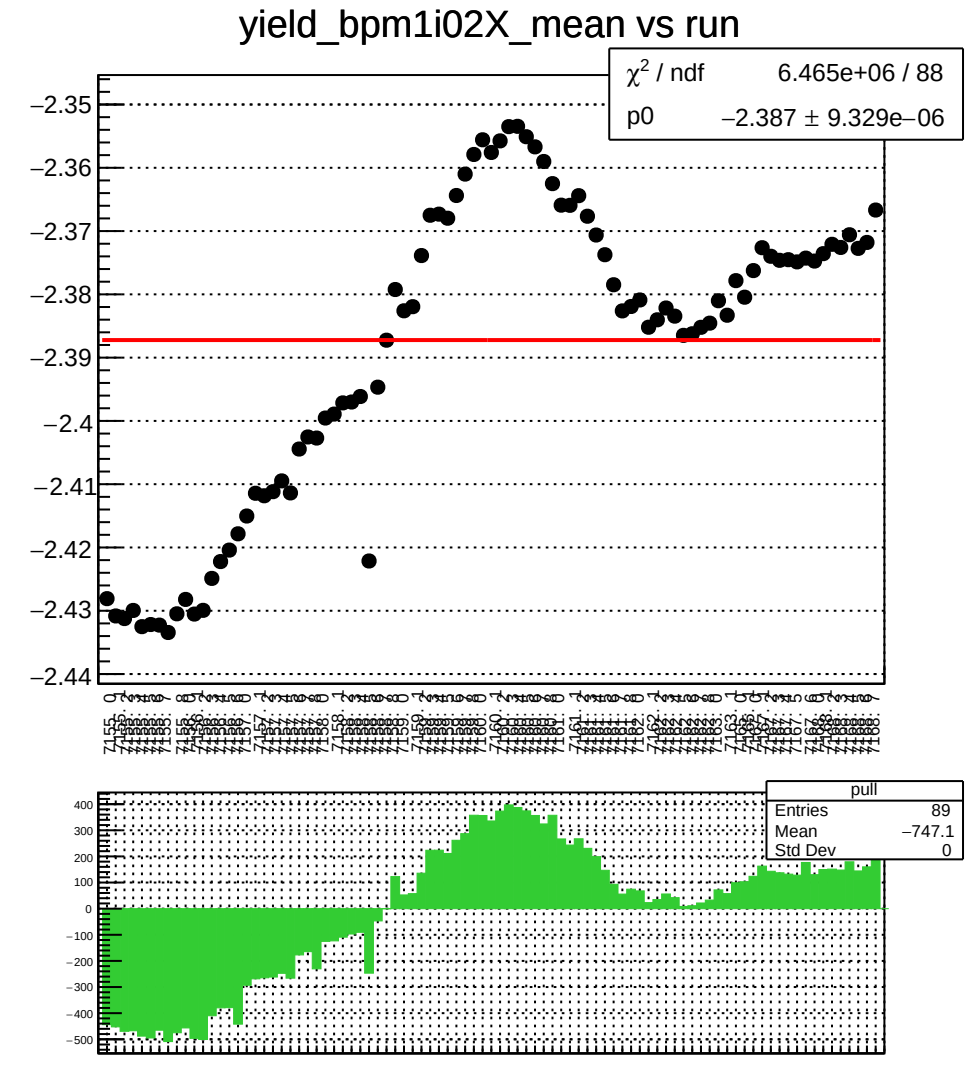

yield_bpm0i05Y_rms vs run
χ² / ndf 8.868e+04 / 88
p0 0.004502 ± 3.514e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

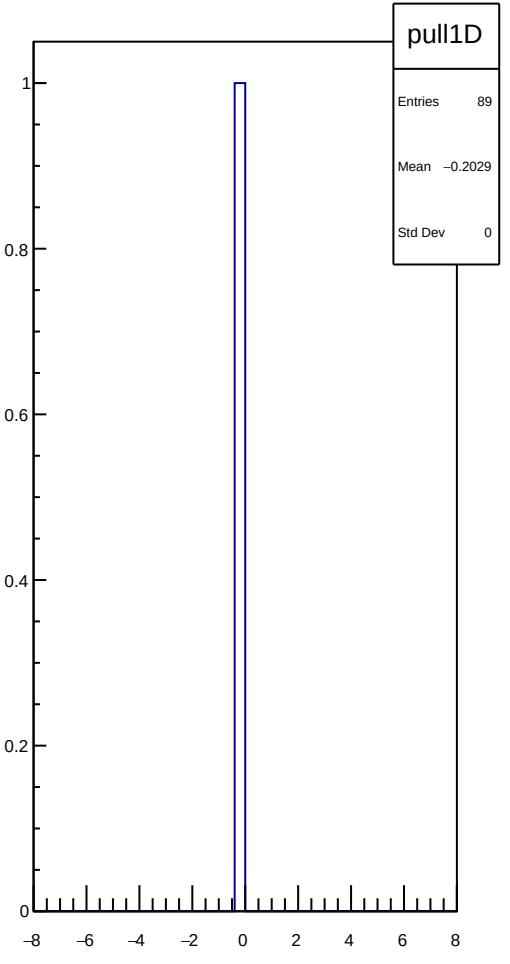

yield_bpm0i07X_mean vs run
χ² / ndf 8.166e+06 / 88
p0 −0.8163 ± 3.712e−06
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
pull
Entries 89
Mean −418.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 6.856
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

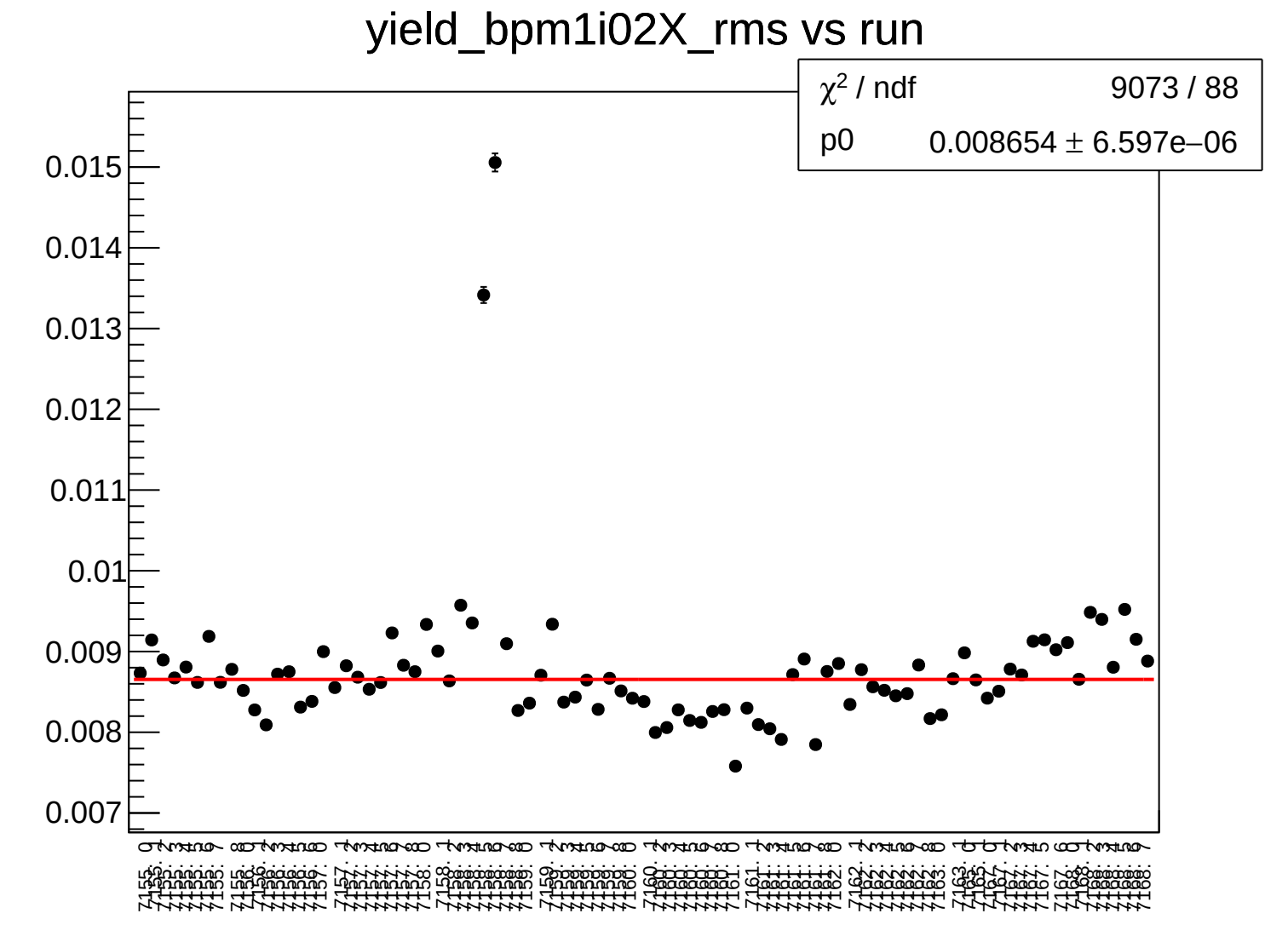

yield_bpm0i07X_rms vs run
χ² / ndf 6.424e+04 / 88
p0 0.003388 ± 2.625e−06
0.008
0.007
0.006
0.005
0.004
0.003

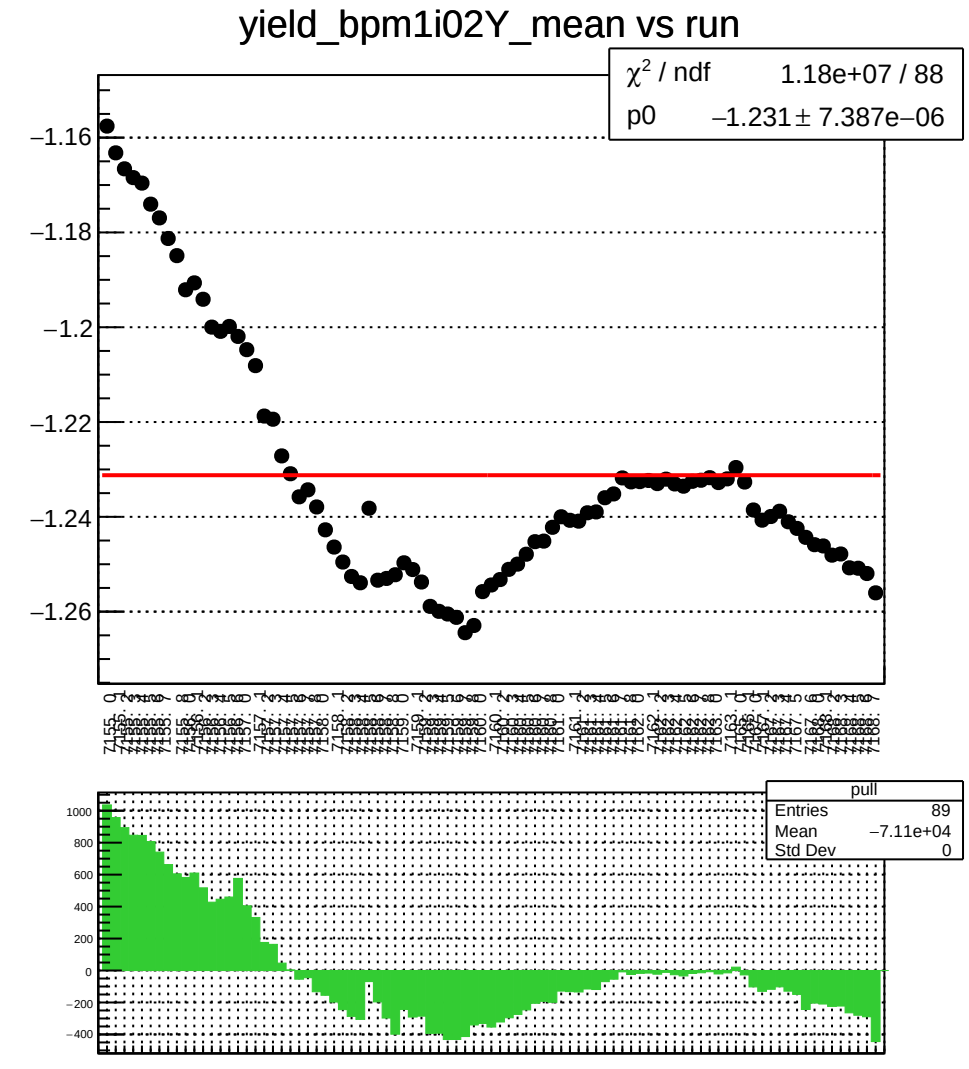

yield_bpm0i07Y_mean vs run
χ² / ndf 1.281e+07 / 88
p0 0.6741 ± 3.748e−06
0.7
0.69
0.68
0.67
0.66
pull
Entries 89
Mean 592.6
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

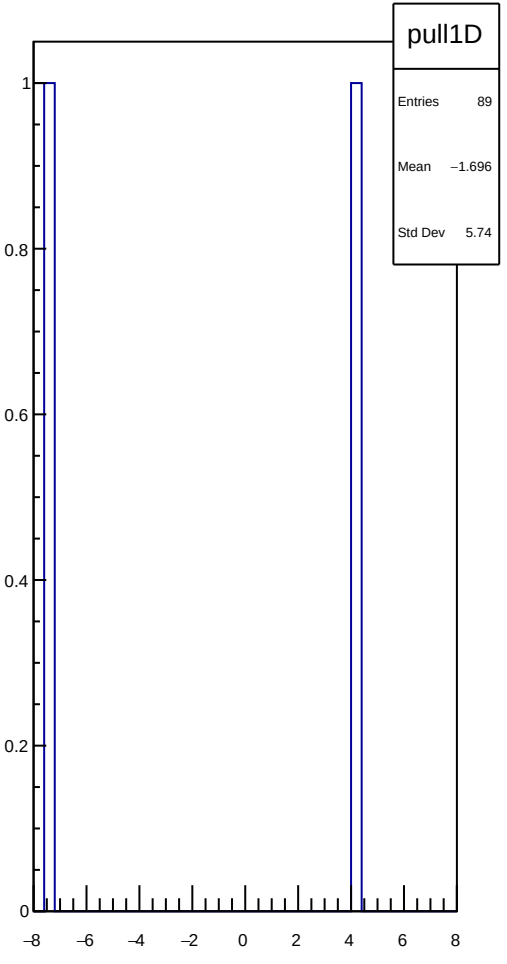

yield_bpm0i07Y_rms vs run
χ² / ndf 6.101e+04 / 88
p0 0.003424 ± 2.65e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

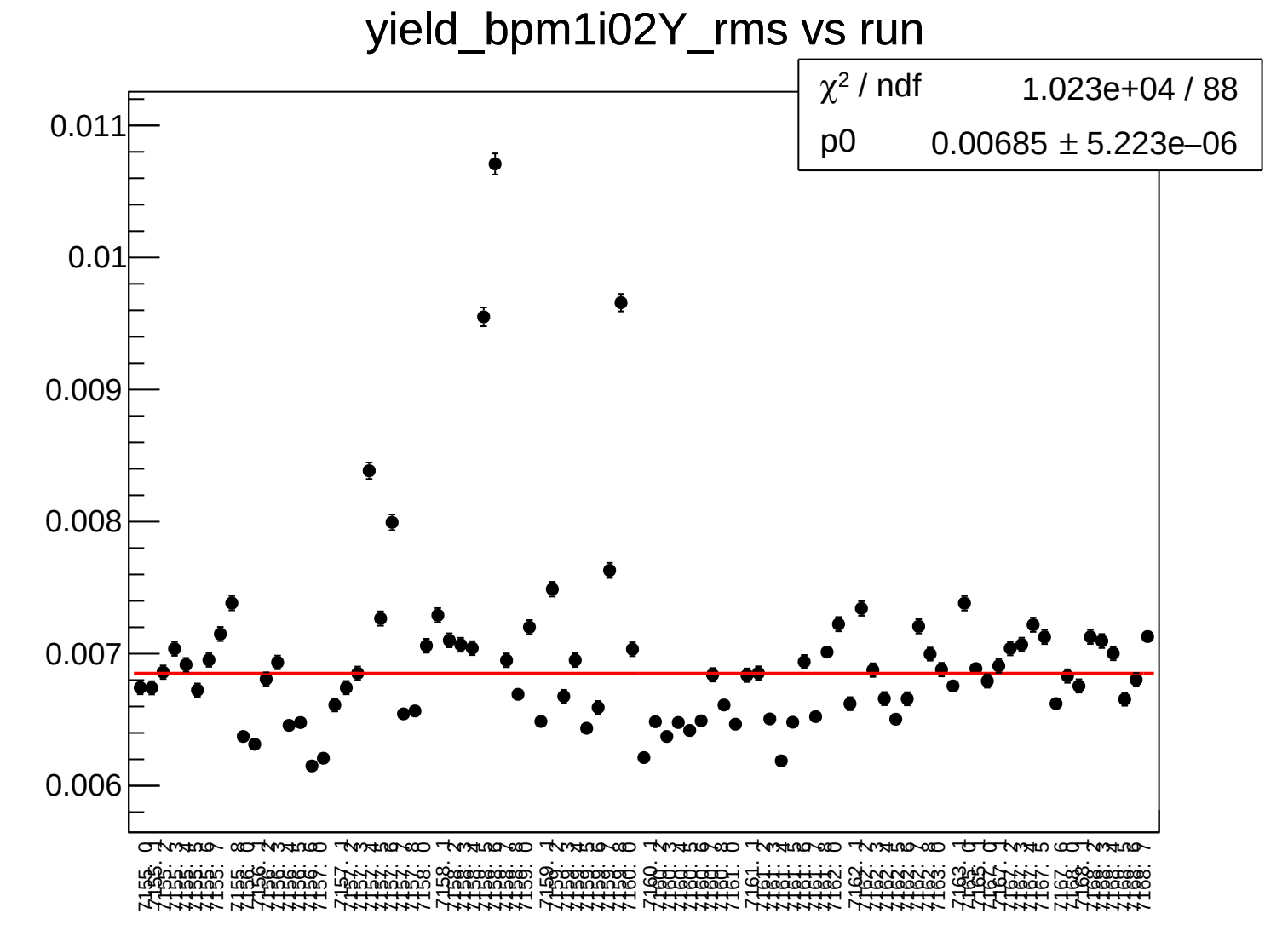

yield_bpm1i02X_mean vs run
χ² / ndf 6.465e+06 / 88
p0 −2.387 ± 9.329e−06
−2.35
−2.36
−2.37
−2.38
−2.39
−2.4
−2.41
−2.42
−2.43
−2.44
pull
Entries 89
Mean −747.1
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

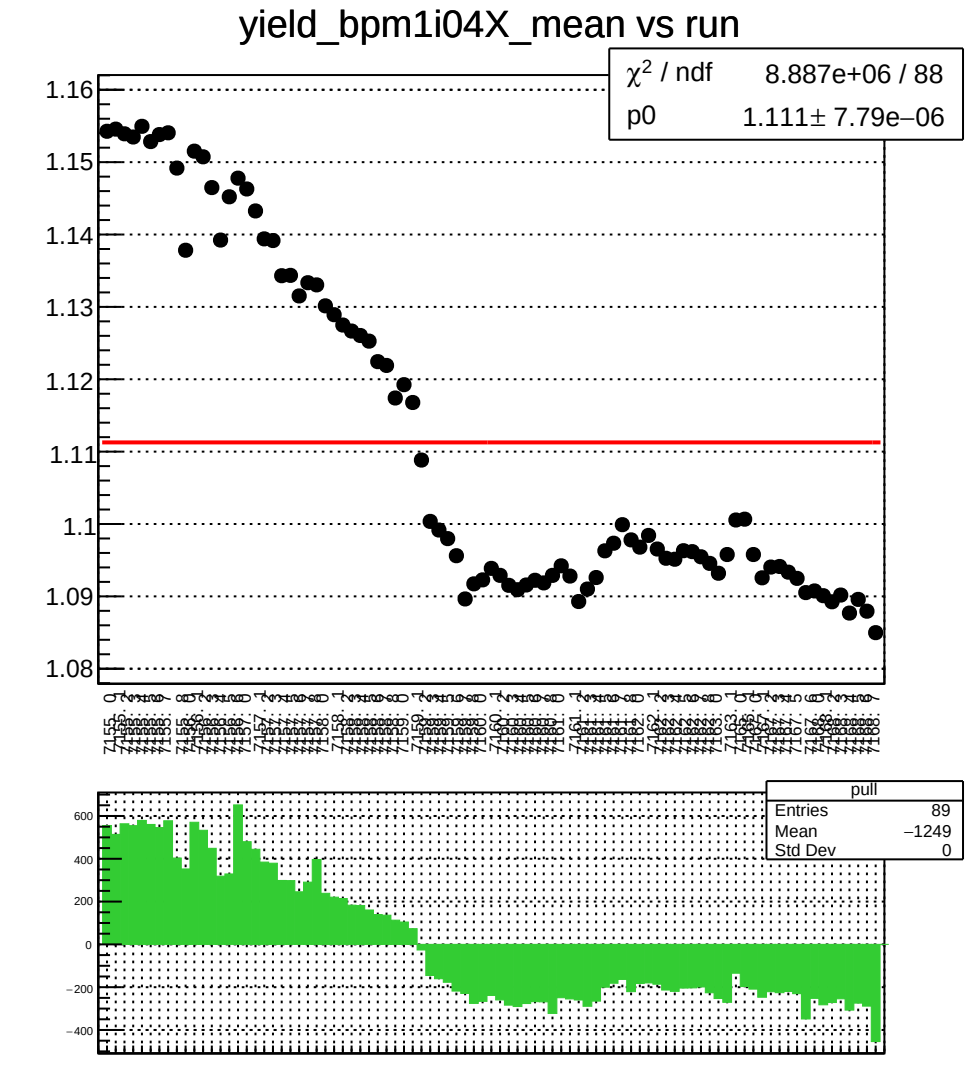

pull1D
Entries 89
Mean −0.2029
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

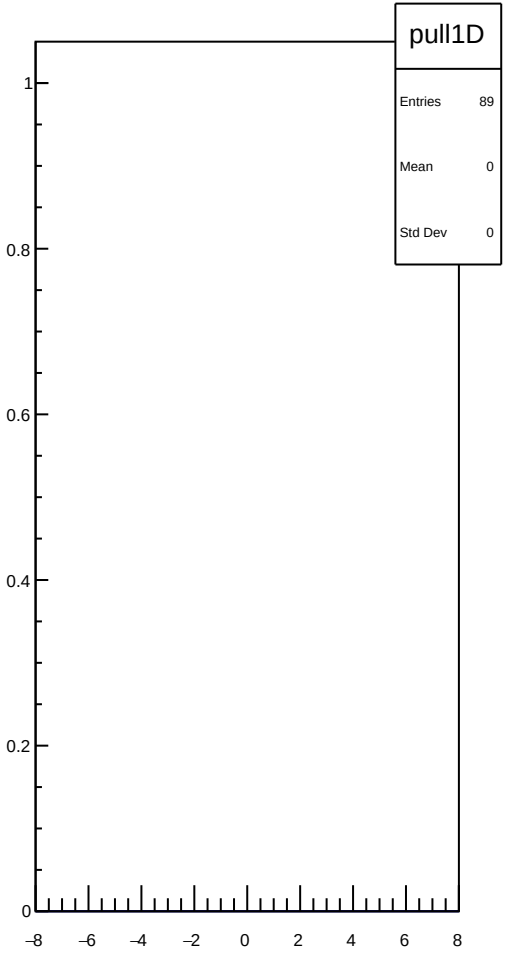

yield_bpm1i02X_rms vs run
χ^2 / ndf 9073 / 88
p0 0.008654 ± 6.597e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

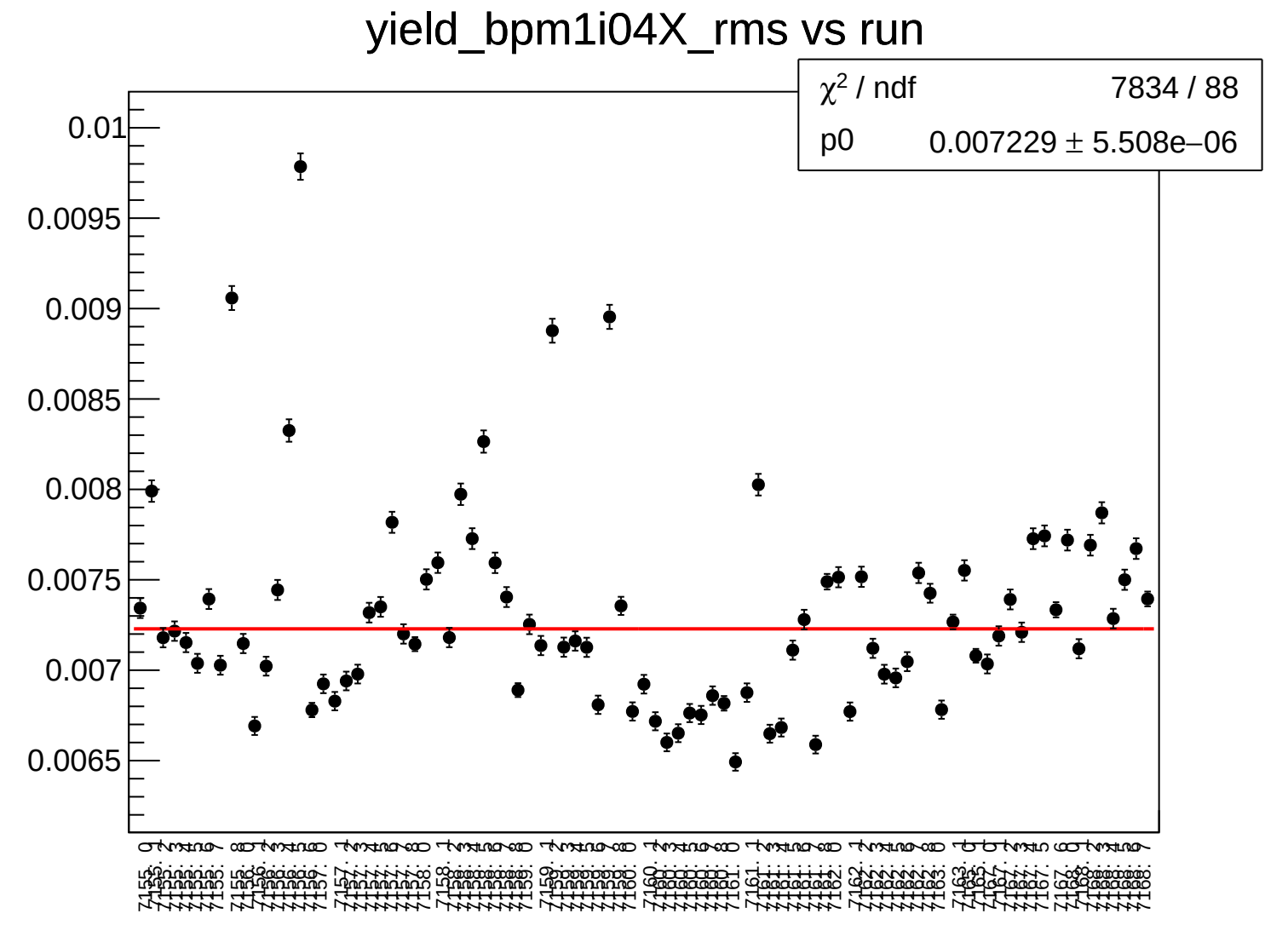

yield_bpm1i02Y_mean vs run
χ² / ndf 1.18e+07 / 88
p0 −1.231 ± 7.387e−06
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
pull
Entries 89
Mean −7.11e+04
Std Dev 0
1000
800
600
400
200
0
−200
−400

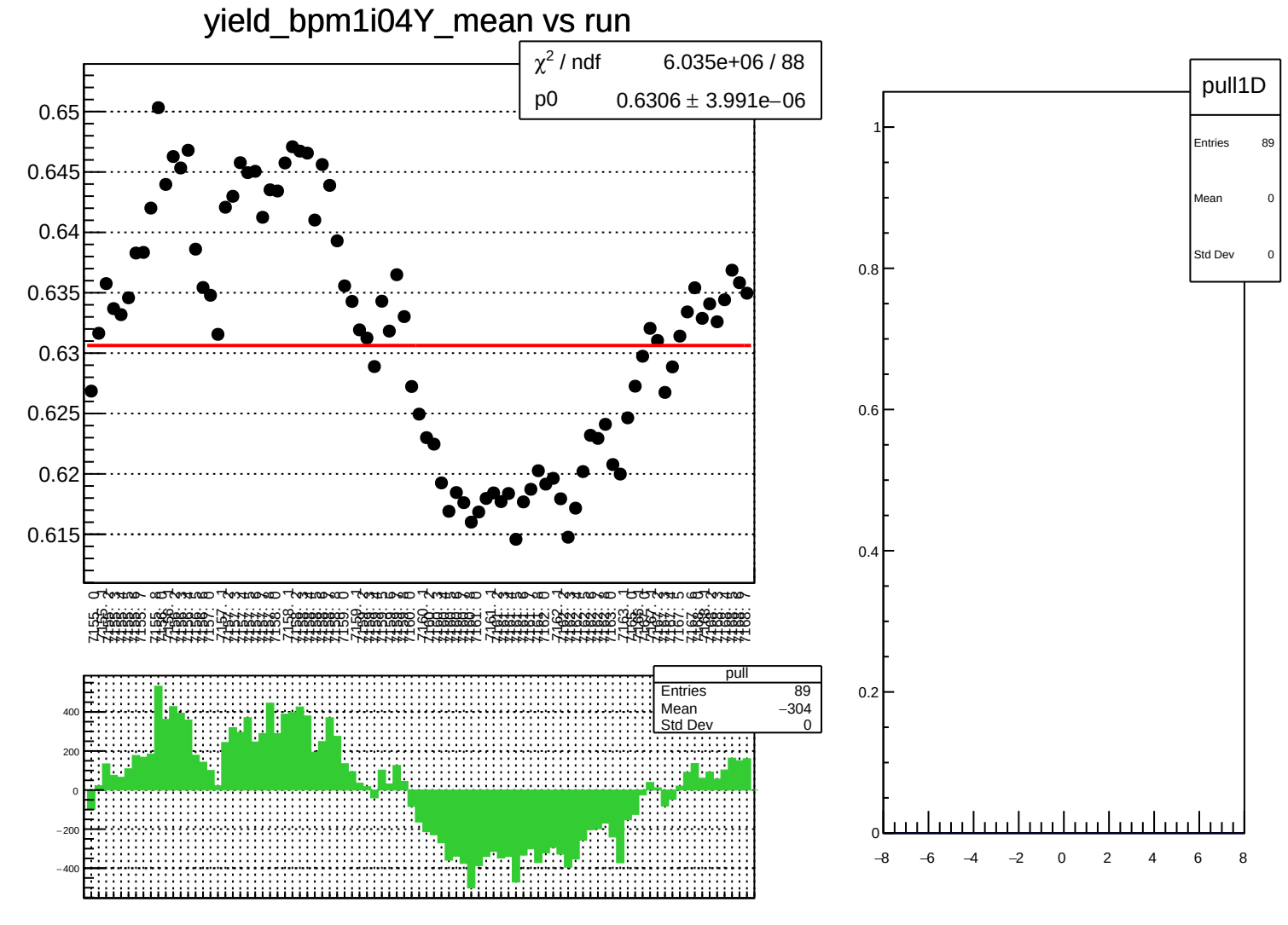

pull1D
Entries 89
Mean −1.696
Std Dev 5.74
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

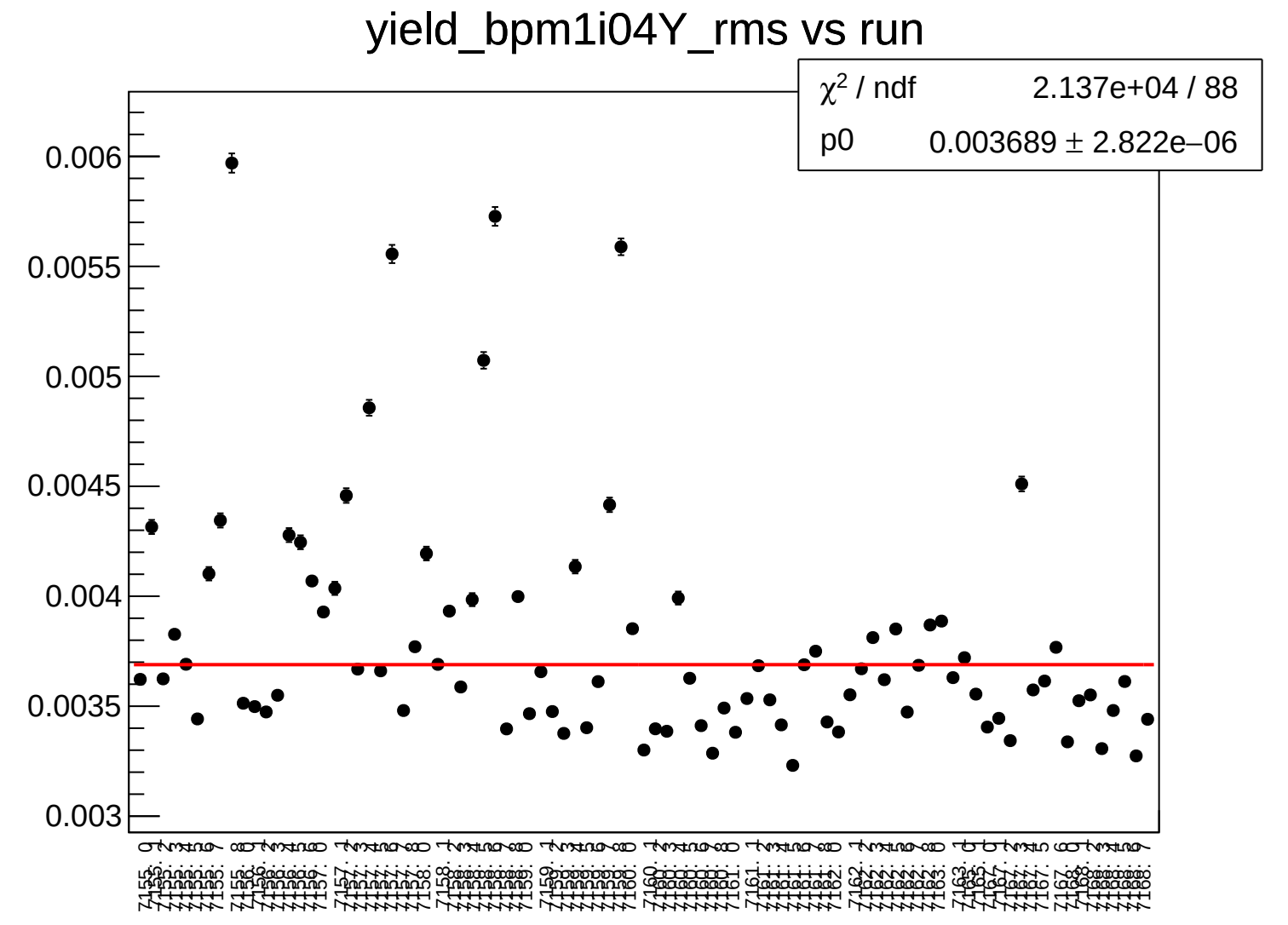

yield_bpm1i02Y_rms vs run
χ² / ndf 1.023e+04 / 88
p0 0.00685 ± 5.223e–06
0.011
0.01
0.009
0.008
0.007
0.006

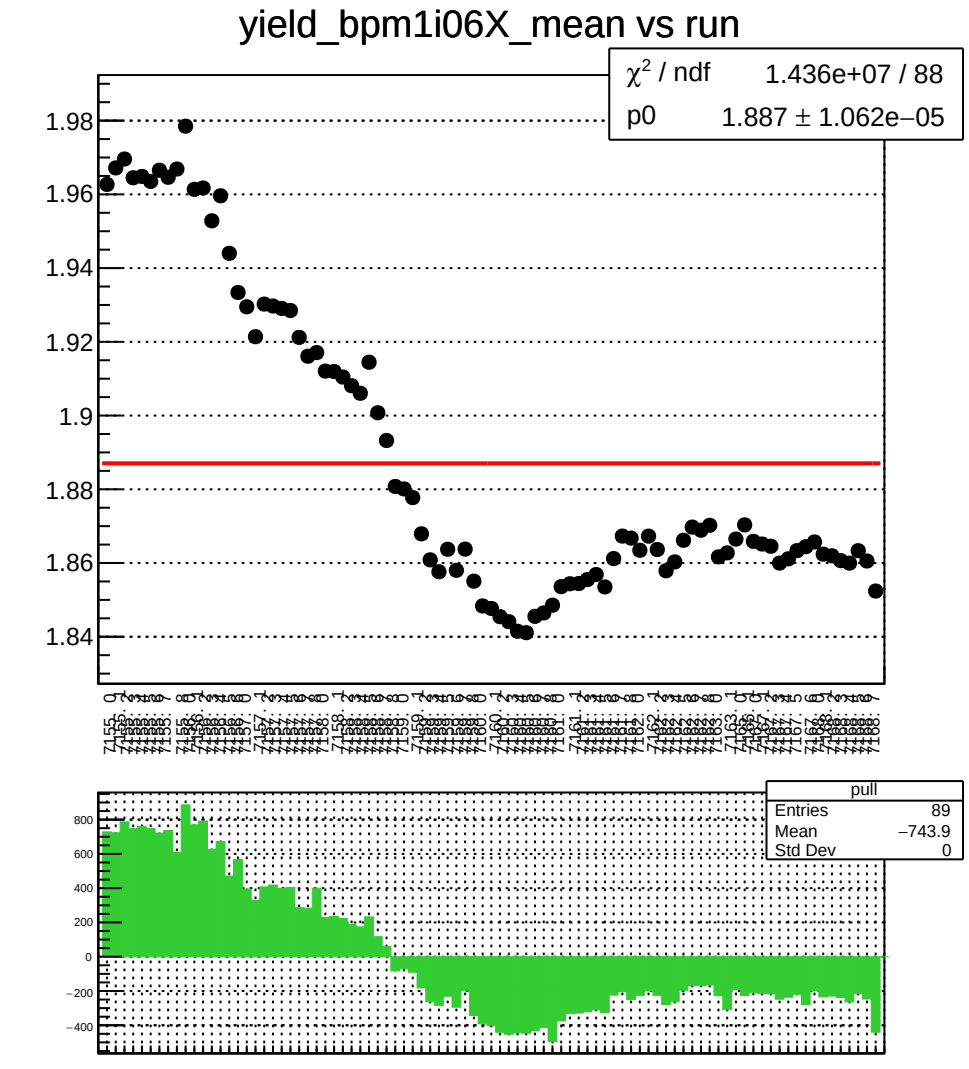

yield_bpm1i04X_mean vs run
χ² / ndf 8.887e+06 / 88
p0 1.111± 7.79e−06
1.16
1.15
1.14
1.13
1.12
1.11
1.1
1.09
1.08
pull
Entries 89
Mean −1249
Std Dev 0
600
400
200
0
−200
−400

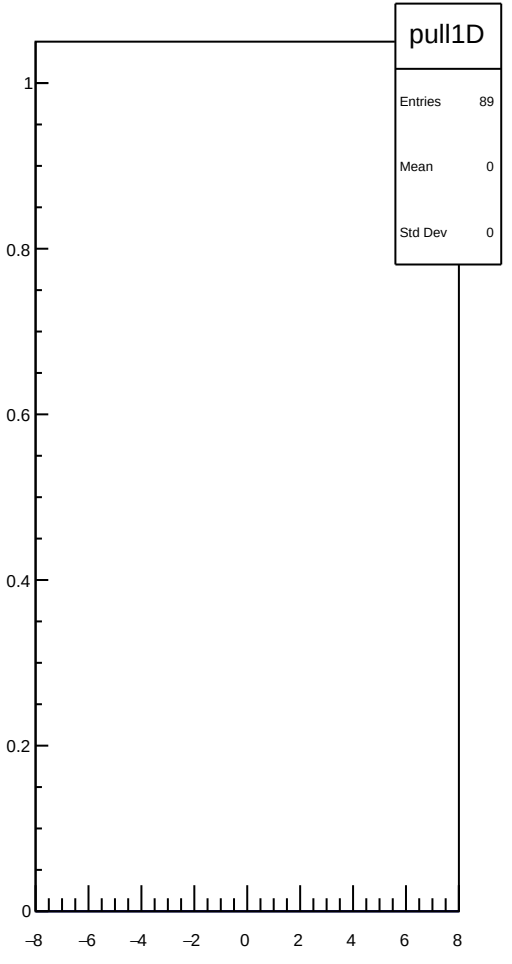

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

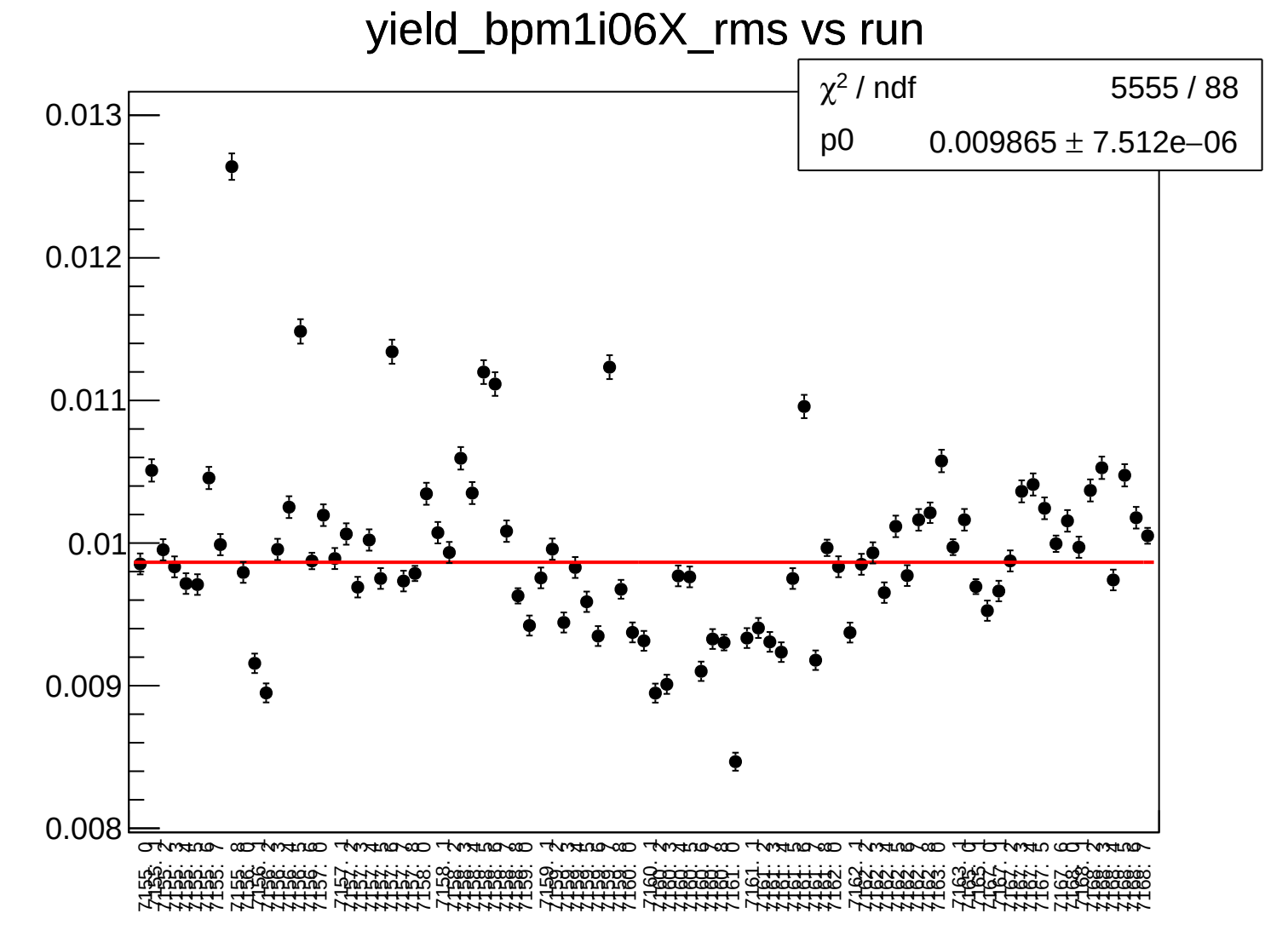

yield_bpm1i04X_rms vs run
χ² / ndf 7834 / 88
p0 0.007229 ± 5.508e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

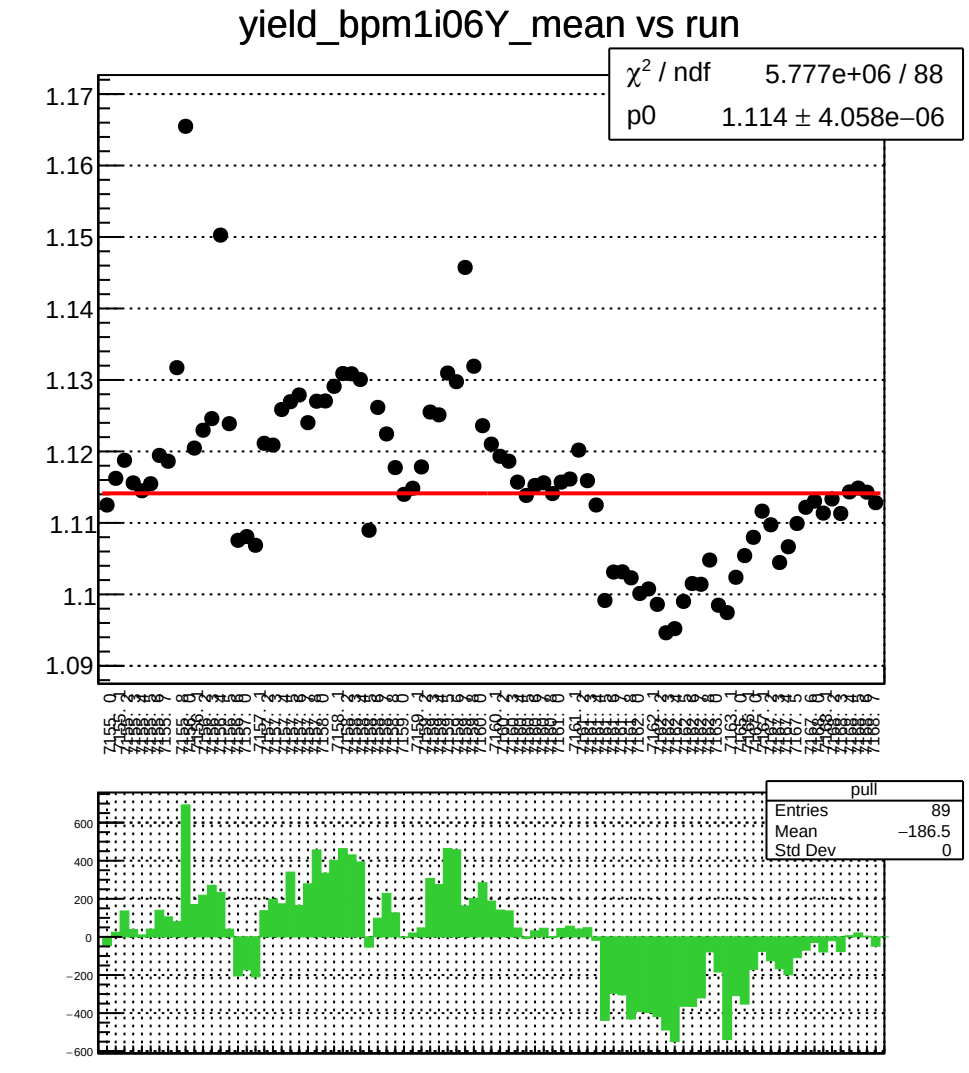

yield_bpm1i04Y_mean vs run
χ² / ndf 6.035e+06 / 88
p0 0.6306 ± 3.991e−06
0.65
0.645
0.64
0.635
0.63
0.625
0.62
0.615
pull
Entries 89
Mean −304
Std Dev 0
400
200
0
−200
−400
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

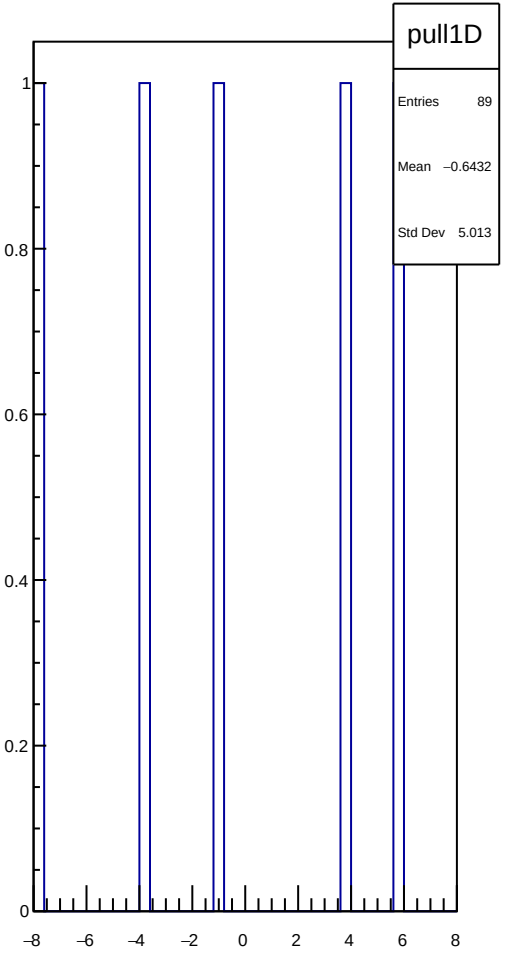

yield_bpm1i04Y_rms vs run
χ² / ndf 2.137e+04 / 88
p0 0.003689 ± 2.822e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003


yield_bpm1i06X_mean vs run
χ² / ndf 1.436e+07 / 88
p0 1.887 ± 1.062e−05
1.98
1.96
1.94
1.92
1.9
1.88
1.86
1.84
pull
Entries 89
Mean −743.9
Std Dev 0
800
600
400
200
0
−200
−400

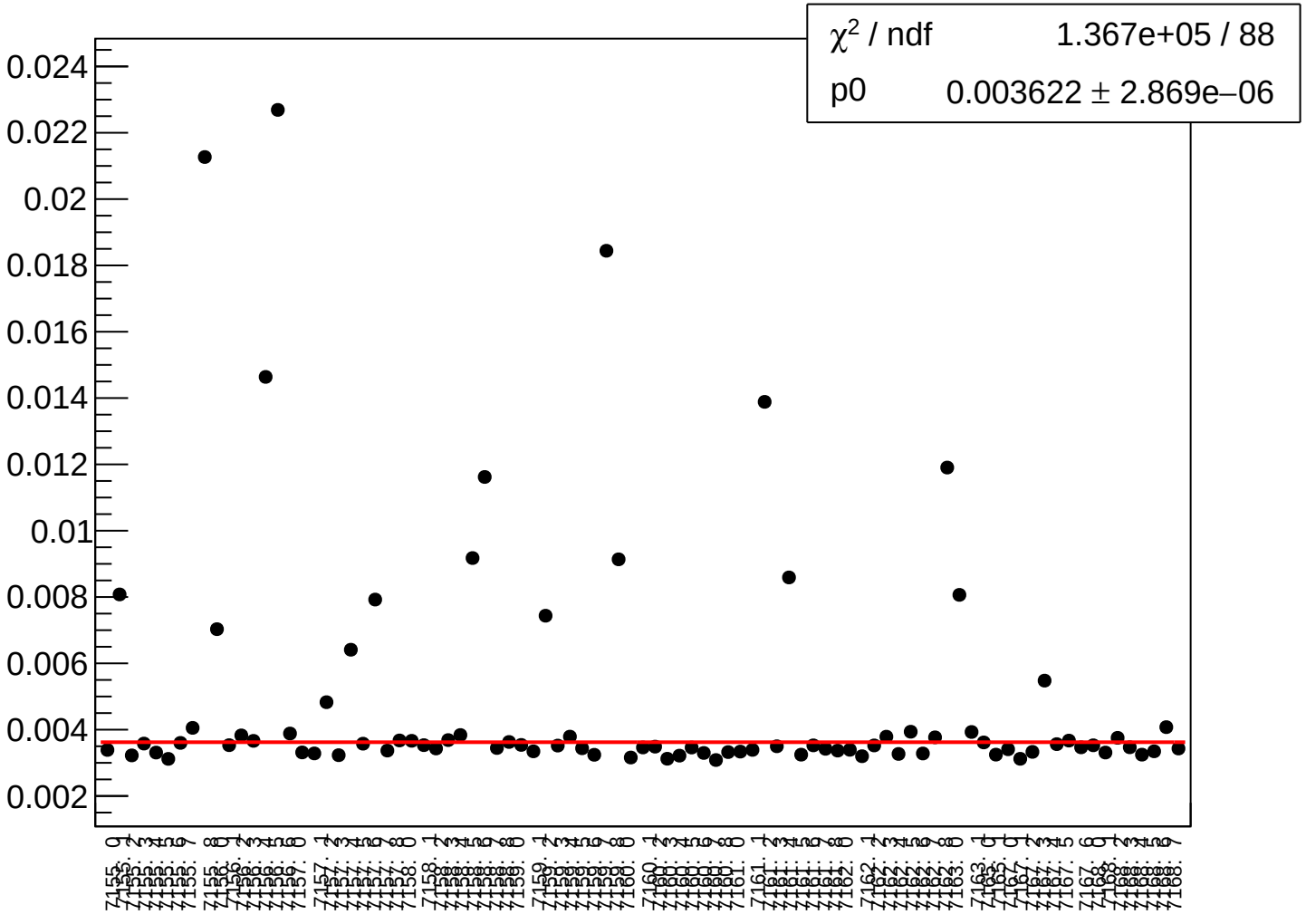

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

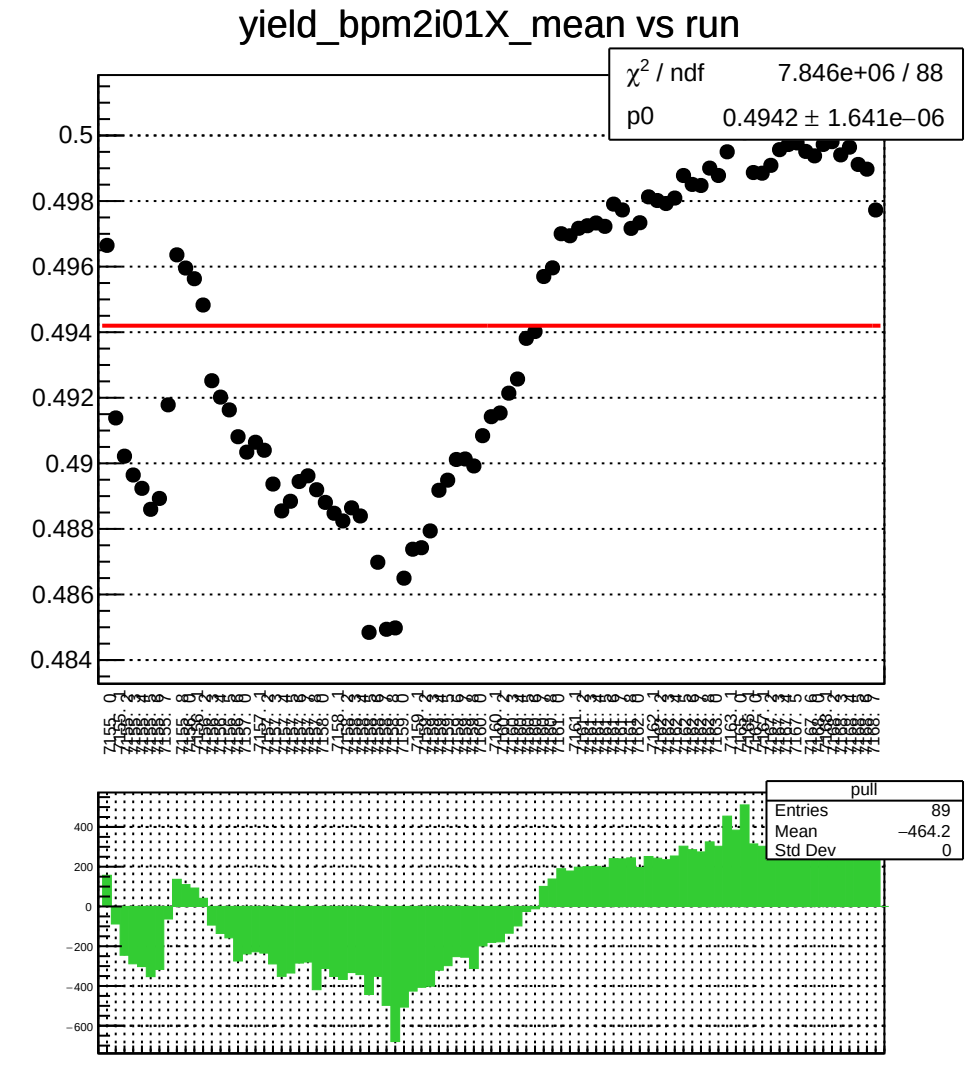

yield_bpm1i06X_rms vs run
χ² / ndf 5555 / 88
p0 0.009865 ± 7.512e−06
0.013
0.012
0.011
0.01
0.009
0.008

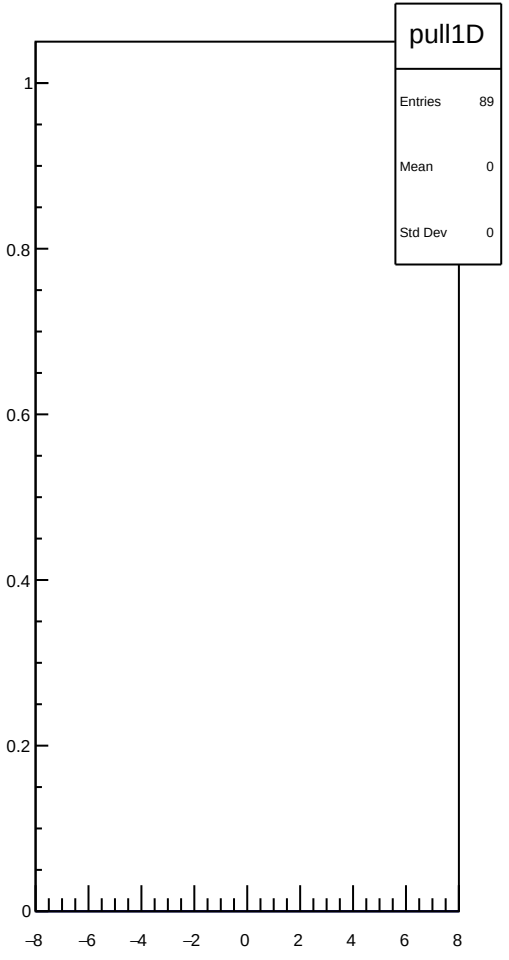

yield_bpm1i06Y_mean vs run
χ² / ndf 5.777e+06 / 88
p0 1.114 ± 4.058e−06
1.17
1.16
1.15
1.14
1.13
1.12
1.11
1.1
1.09
pull
Entries 89
Mean −186.5
Std Dev 0
600
400
200
0
−200
−400
−600

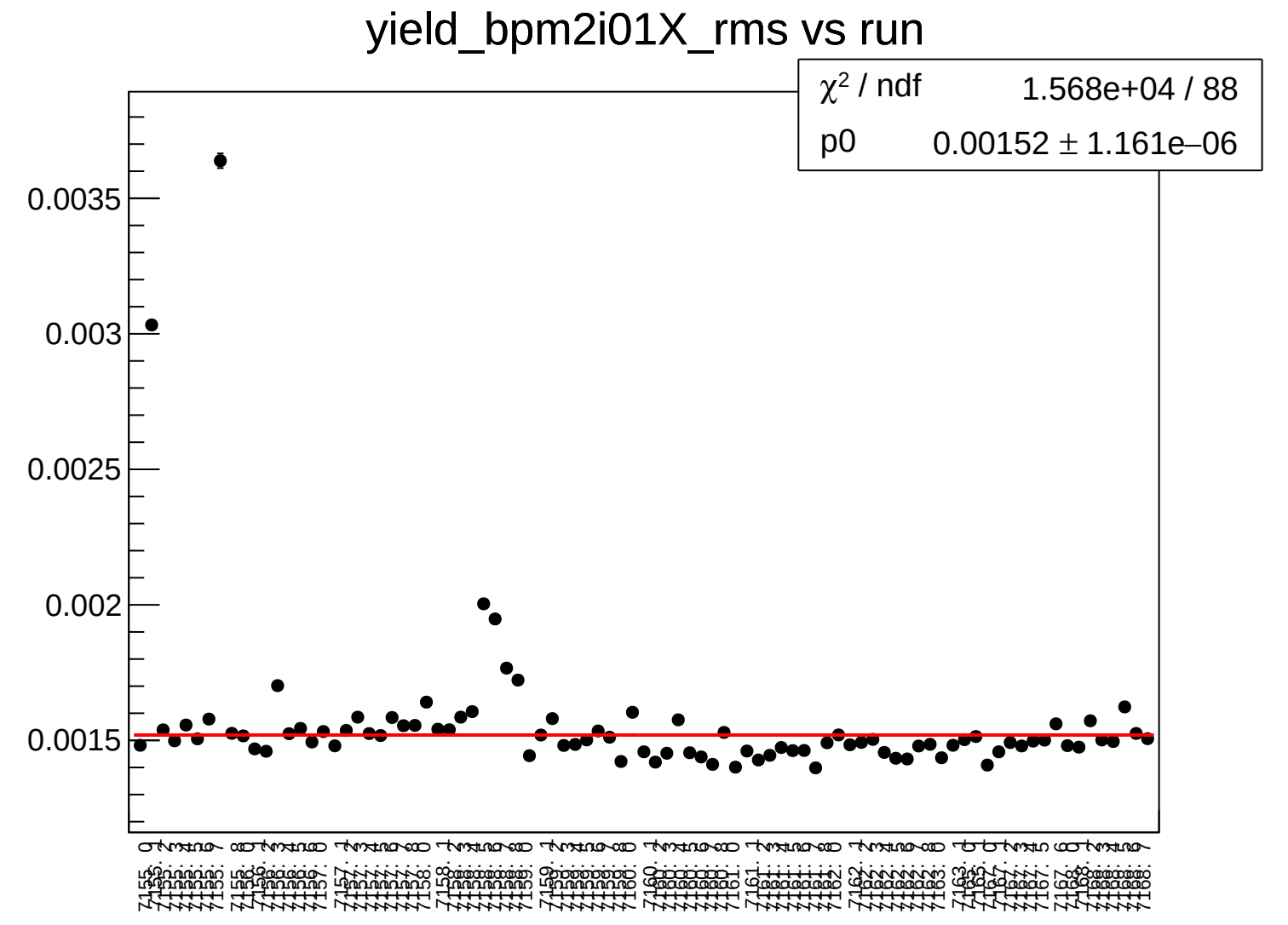

pull1D
Entries 89
Mean −0.6432
Std Dev 5.013
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

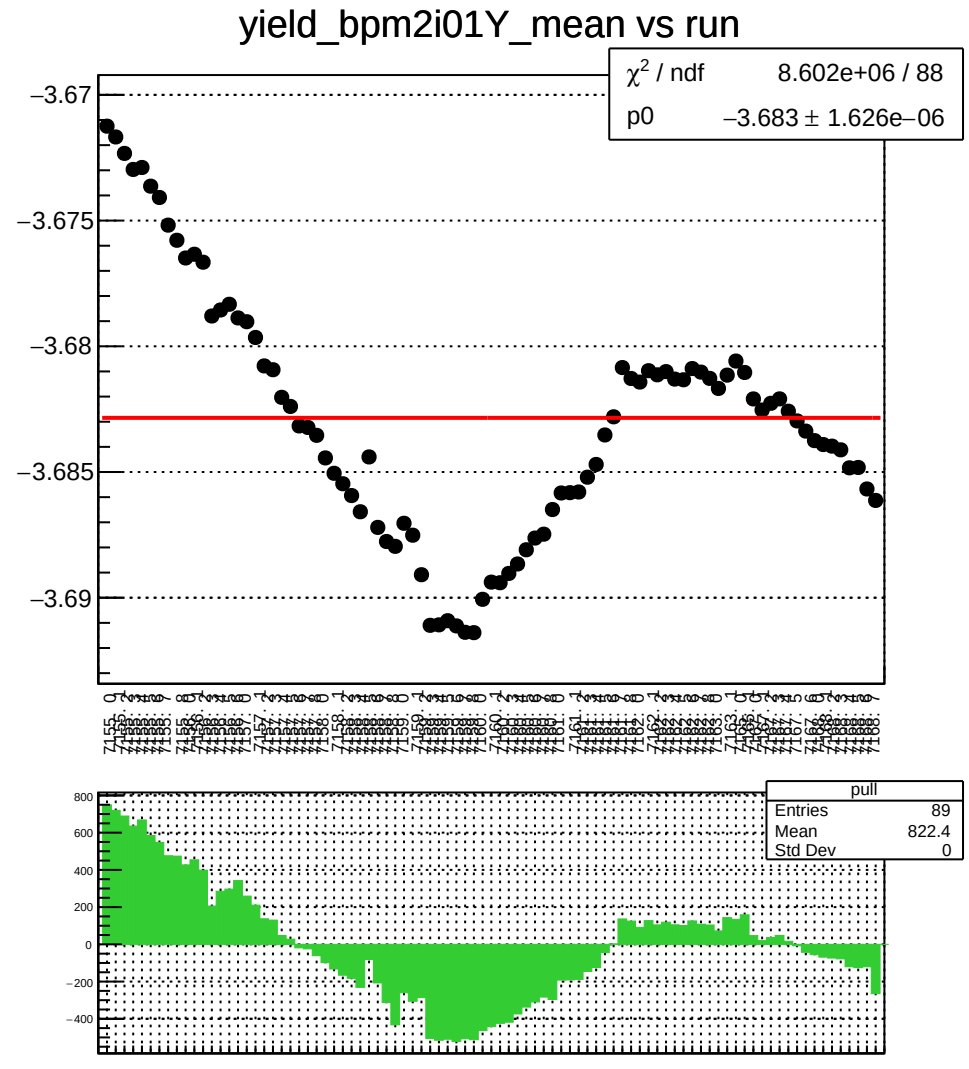
yield_bpm1i06Y_rms vs run

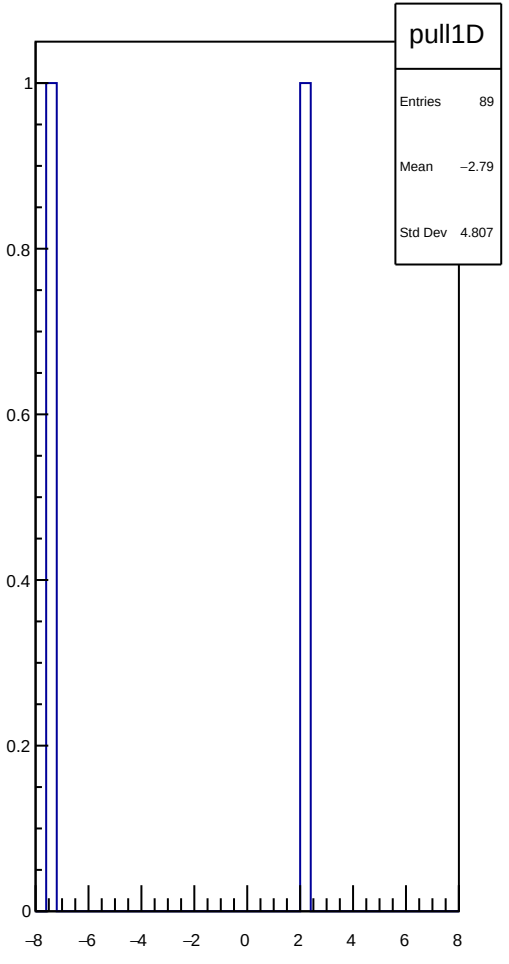


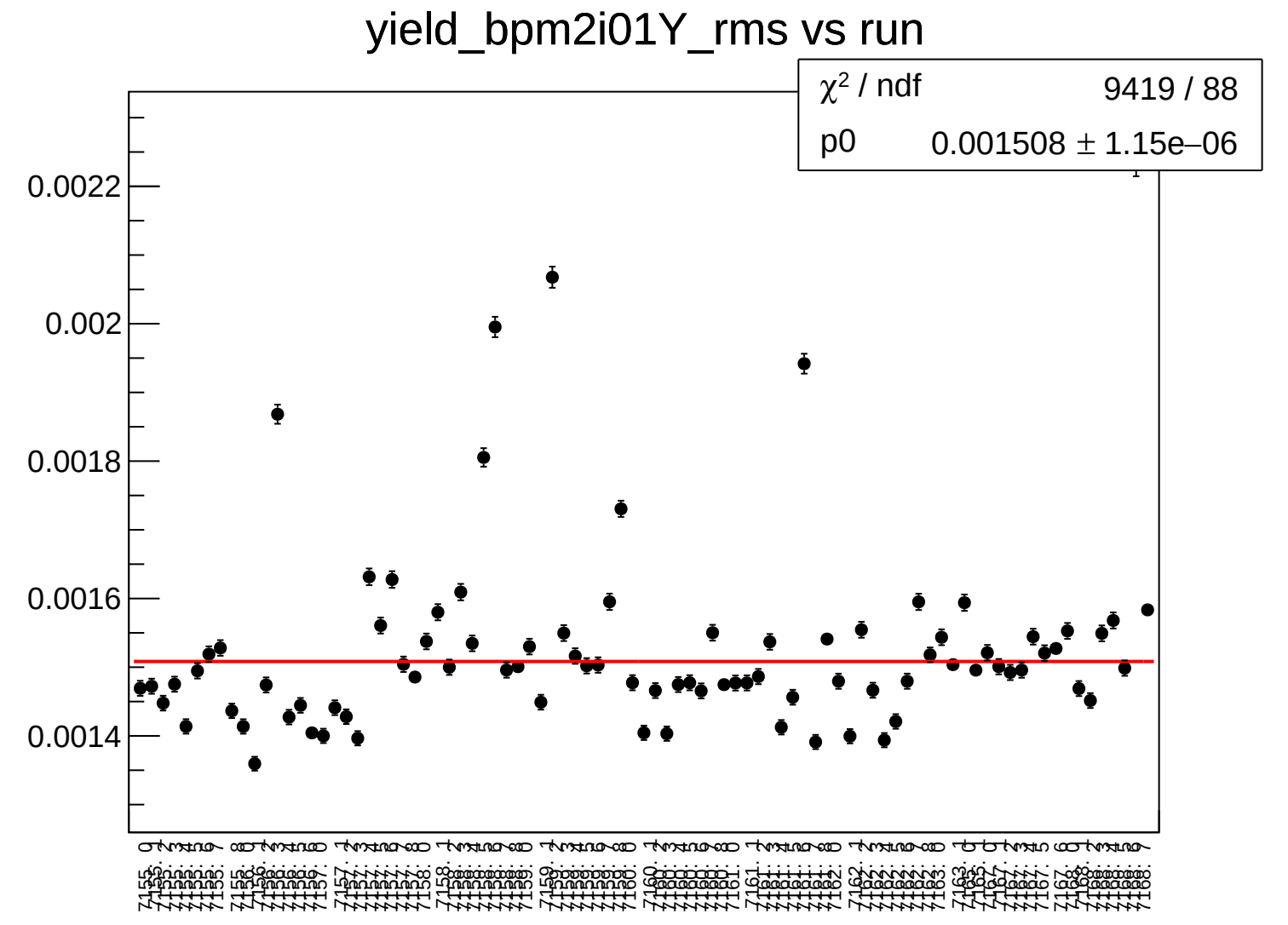

yield_bpm2i01X_mean vs run
χ² / ndf 7.846e+06 / 88
p0 0.4942 ± 1.641e−06
0.5
0.498
0.496
0.494
0.492
0.49
0.488
0.486
0.484
pull
Entries 89
Mean −464.2
Std Dev 0
400
200
0
−200
−400
−600

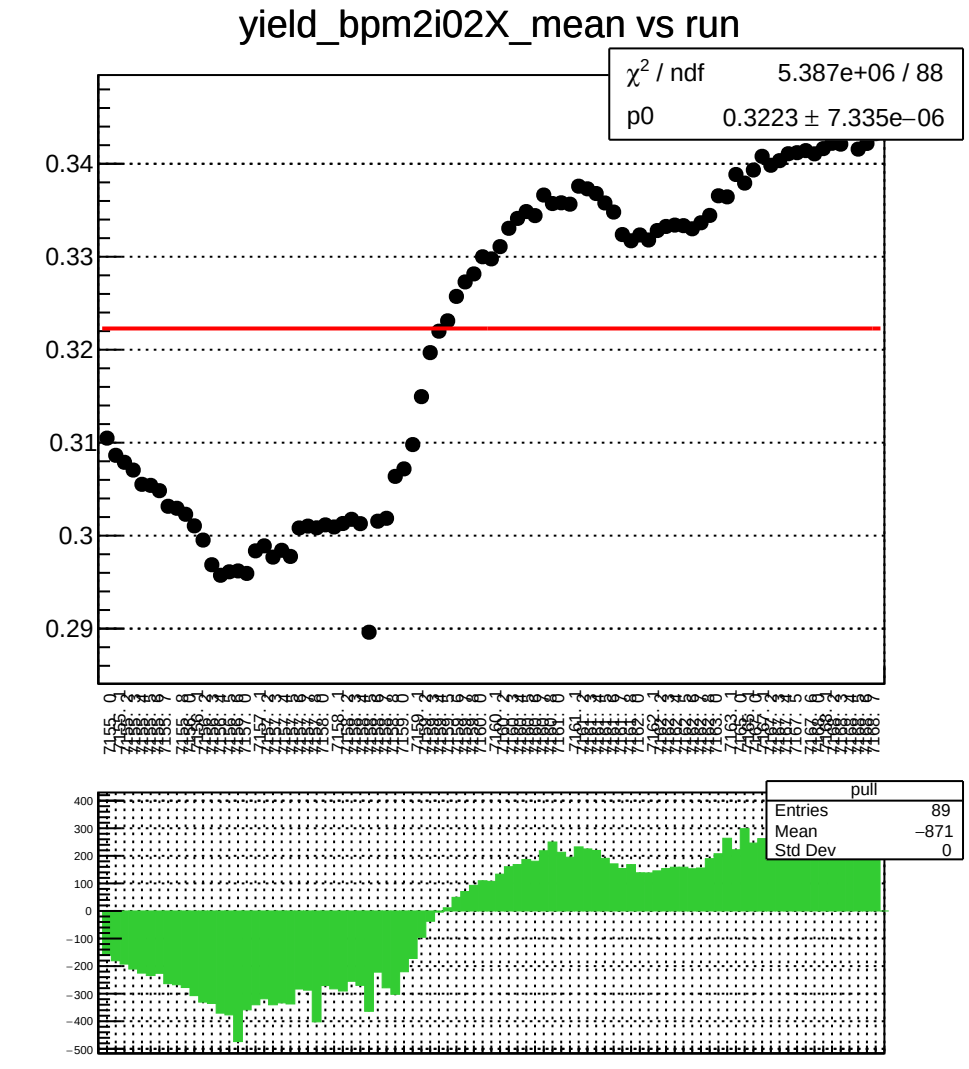

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

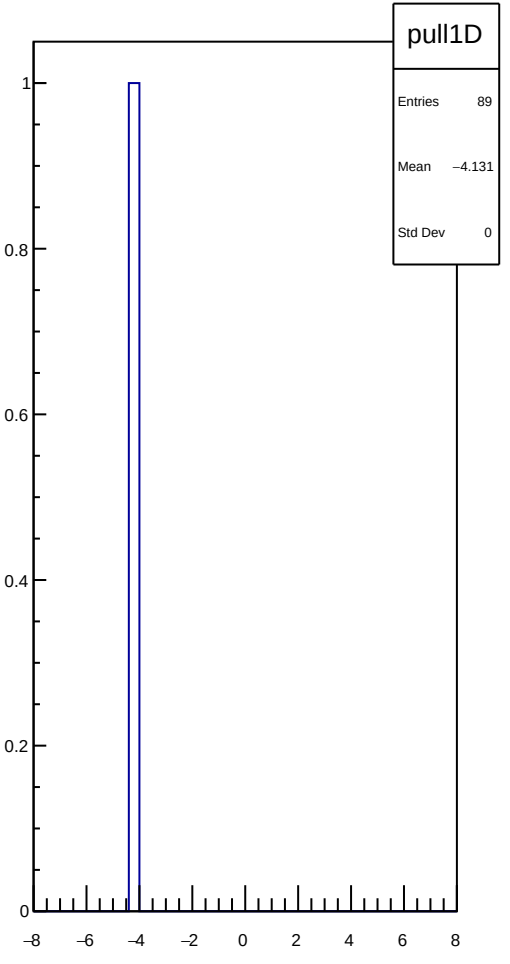

yield_bpm2i01X_rms vs run
χ² / ndf 1.568e+04 / 88
p0 0.00152 ± 1.161e–06
0.0035
0.003
0.0025
0.002
0.0015

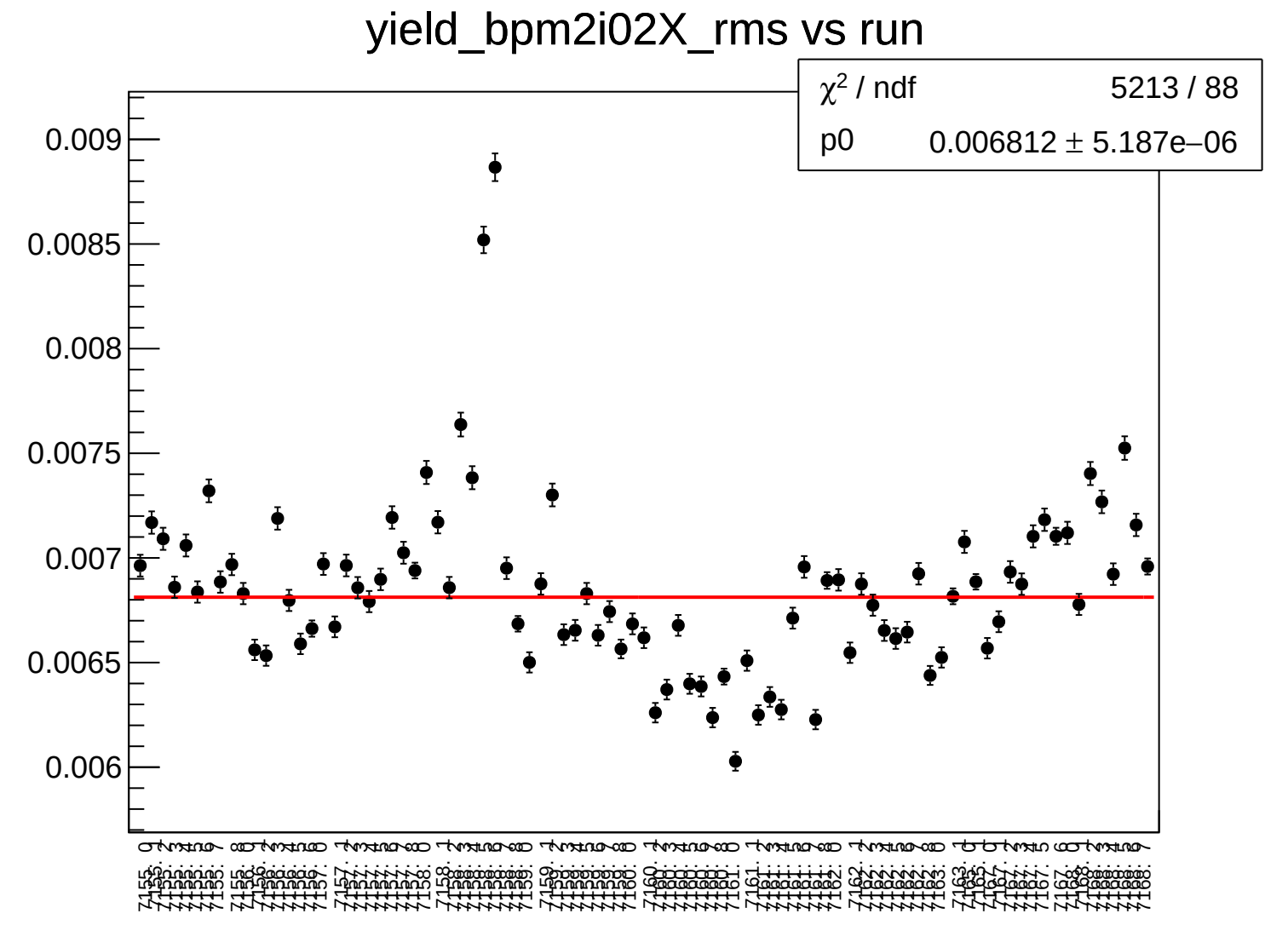

yield_bpm2i01Y_mean vs run
χ² / ndf 8.602e+06 / 88
p0 −3.683 ± 1.626e−06
−3.67
−3.675
−3.68
−3.685
−3.69
pull
Entries 89
Mean 822.4
Std Dev 0
800
600
400
200
0
−200
−400

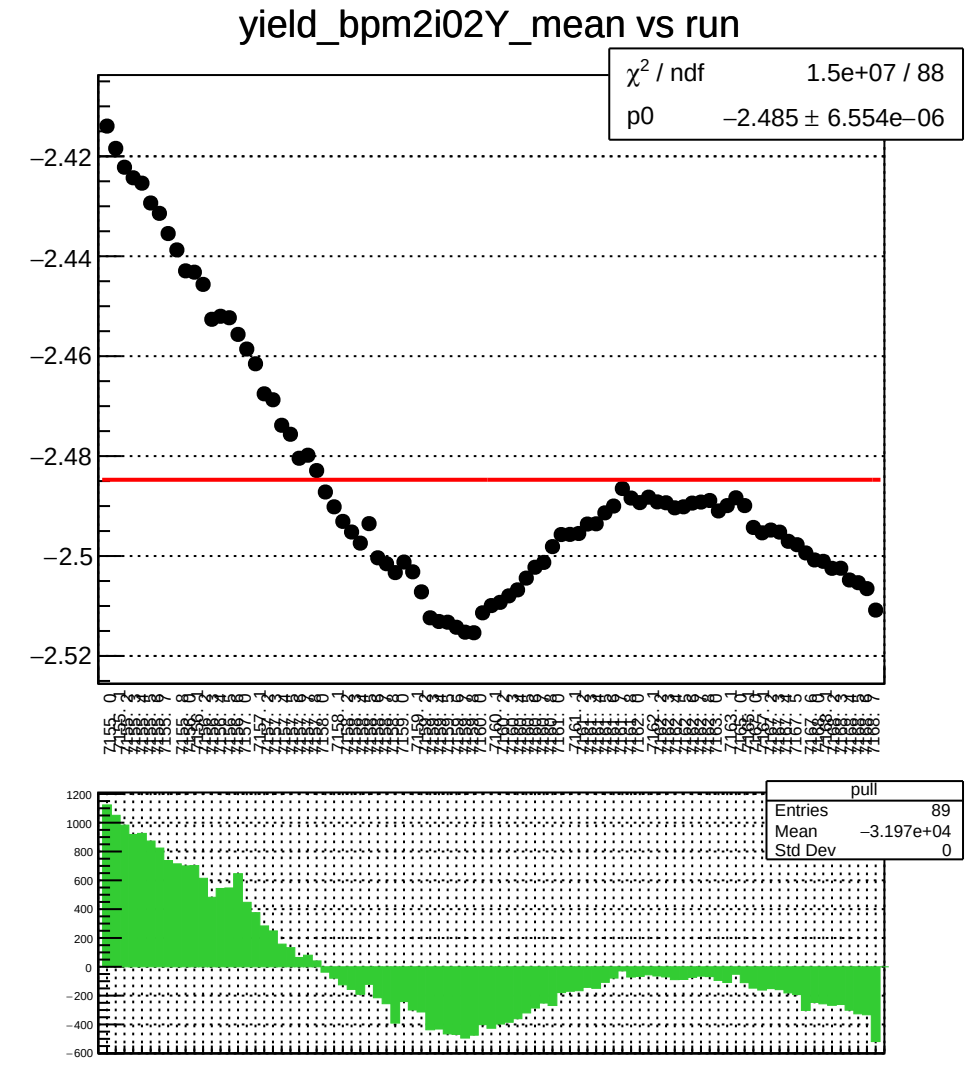

pull1D
Entries 89
Mean −2.79
Std Dev 4.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

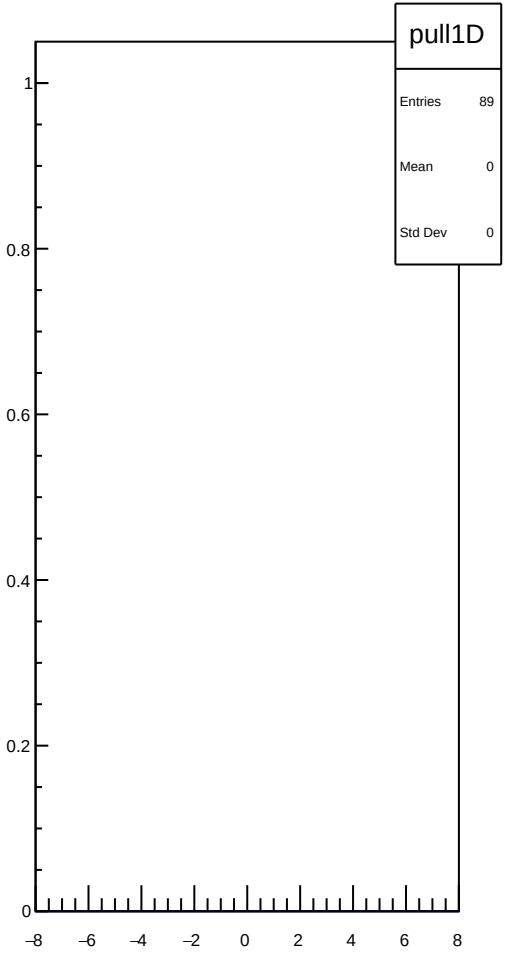

yield_bpm2i01Y_rms vs run
χ² / ndf 9419 / 88
p0 0.001508 ± 1.15e–06
0.0022
0.002
0.0018
0.0016
0.0014

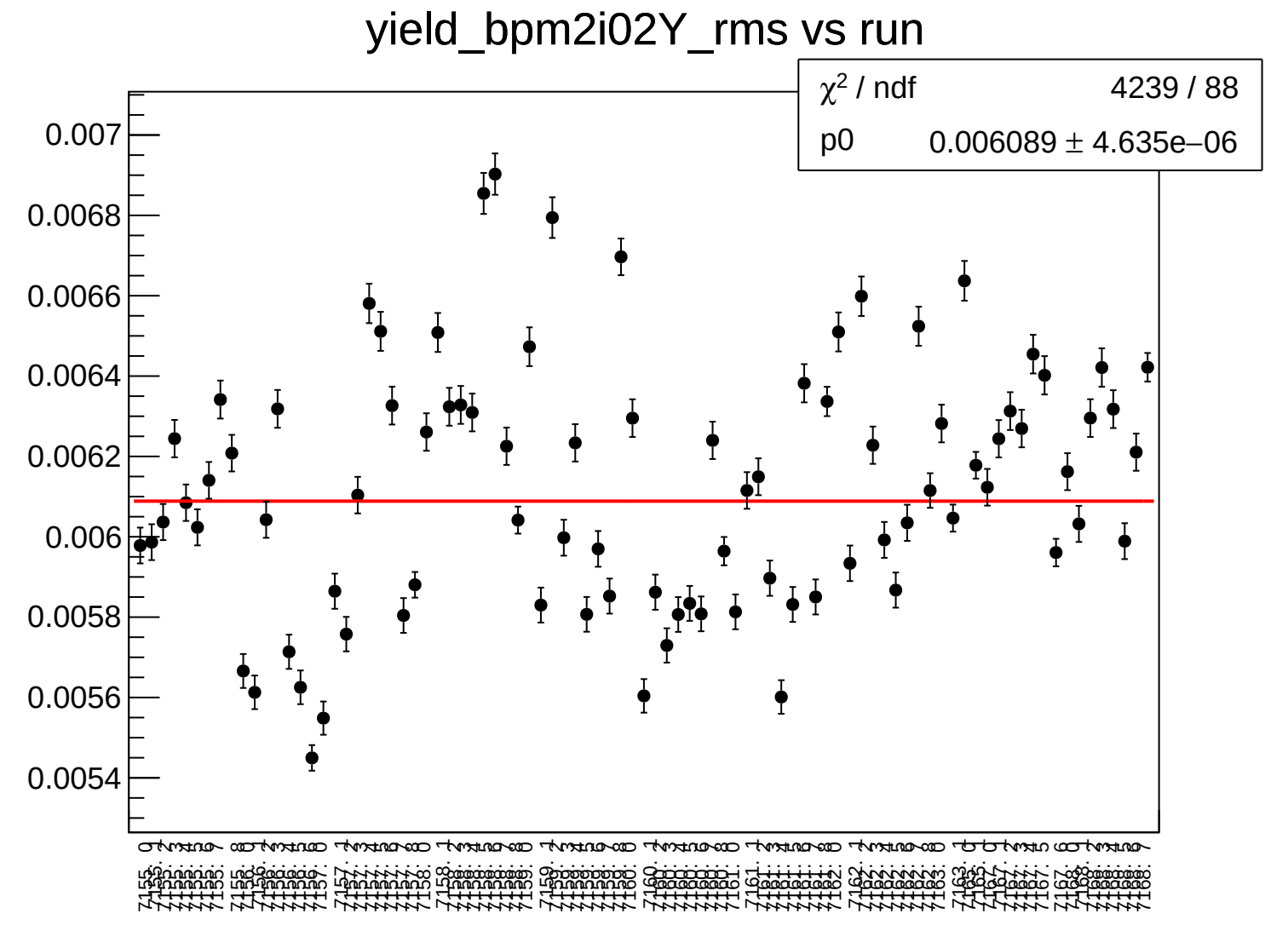

yield_bpm2i02X_mean vs run
χ² / ndf 5.387e+06 / 88
p0 0.3223 ± 7.335e−06
0.34
0.33
0.32
0.31
0.3
0.29
pull
Entries 89
Mean −871
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

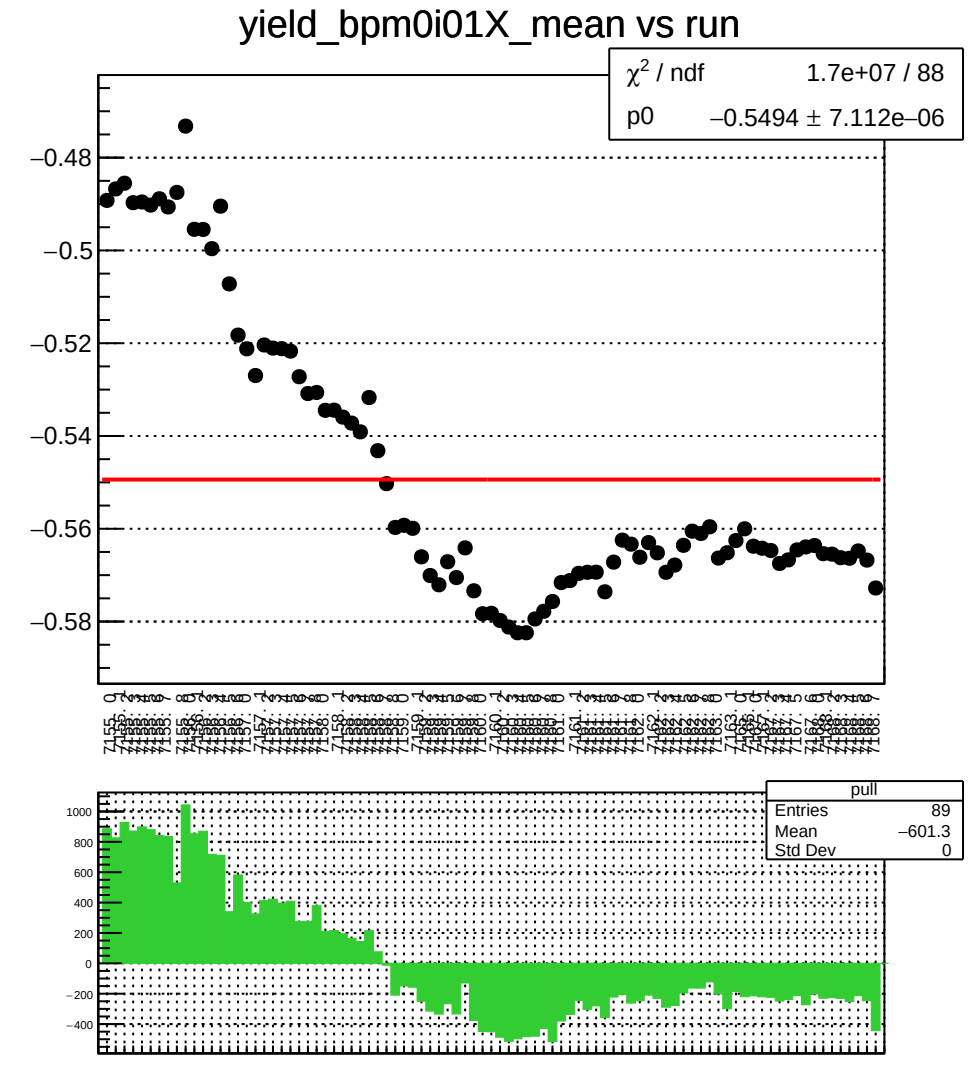

pull1D
Entries 89
Mean −4.131
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

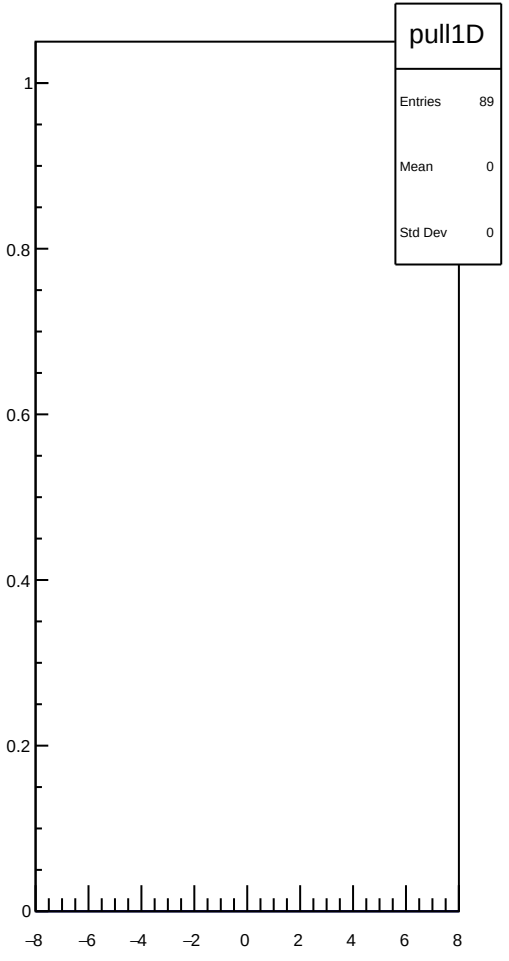

yield_bpm2i02X_rms vs run
χ² / ndf 5213 / 88
p0 0.006812 ± 5.187e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

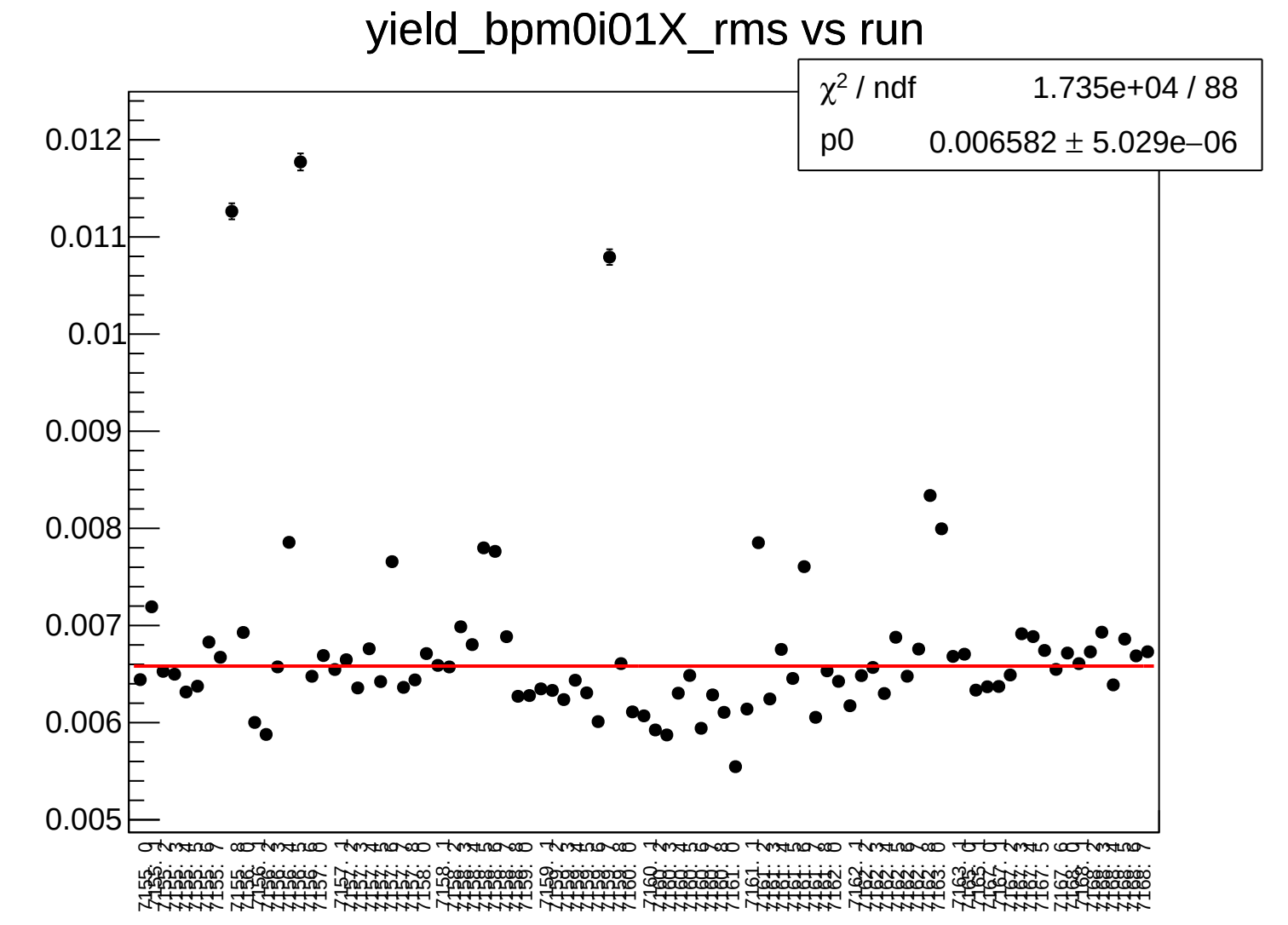

yield_bpm2i02Y_mean vs run
χ² / ndf 1.5e+07 / 88
p0 −2.485 ± 6.554e−06
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
pull
Entries 89
Mean −3.197e+04
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

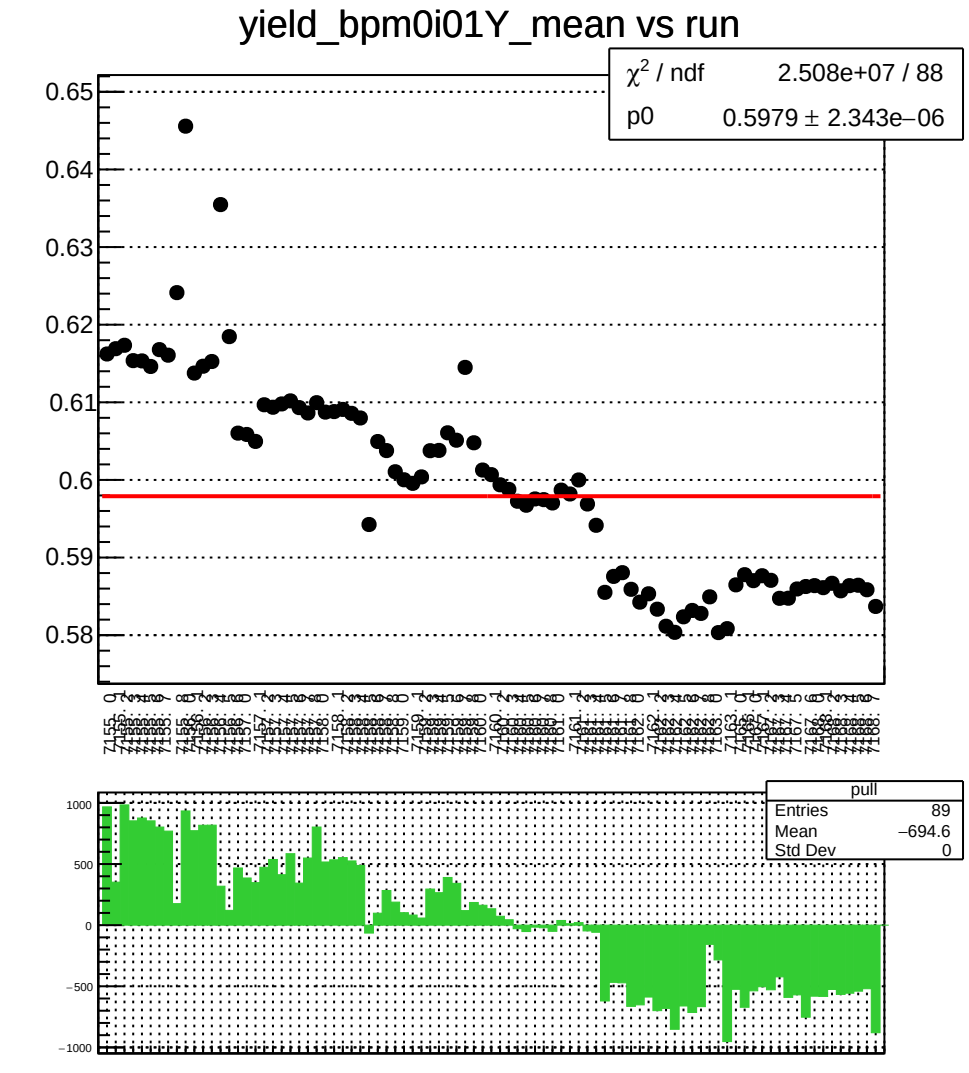

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

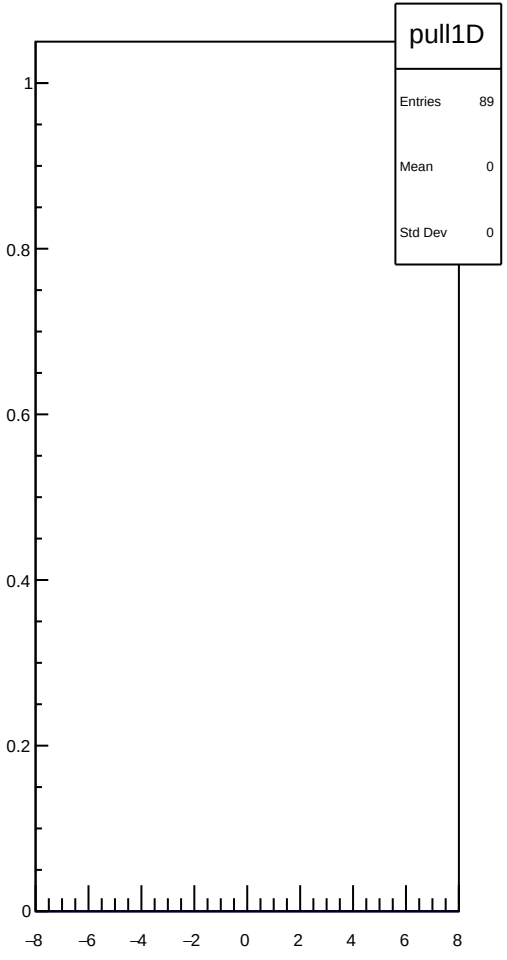

yield_bpm2i02Y_rms vs run
χ² / ndf 4239 / 88
p0 0.006089 ± 4.635e−06
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054

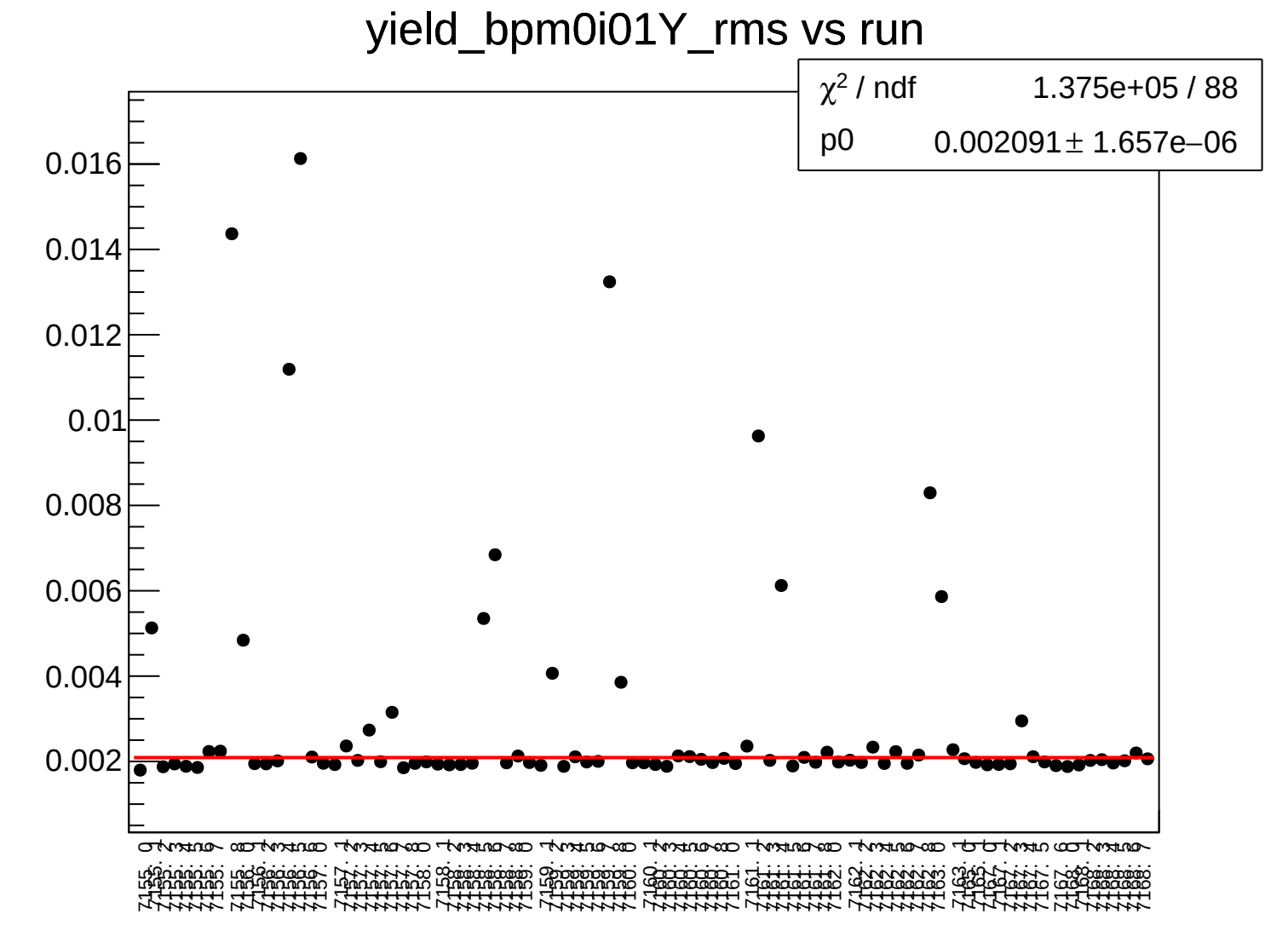

yield_bpm0i01X_mean vs run
χ² / ndf 1.7e+07 / 88
p0 −0.5494 ± 7.112e−06
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
pull
Entries 89
Mean −601.3
Std Dev 0
1000
800
600
400
200
0
−200
−400

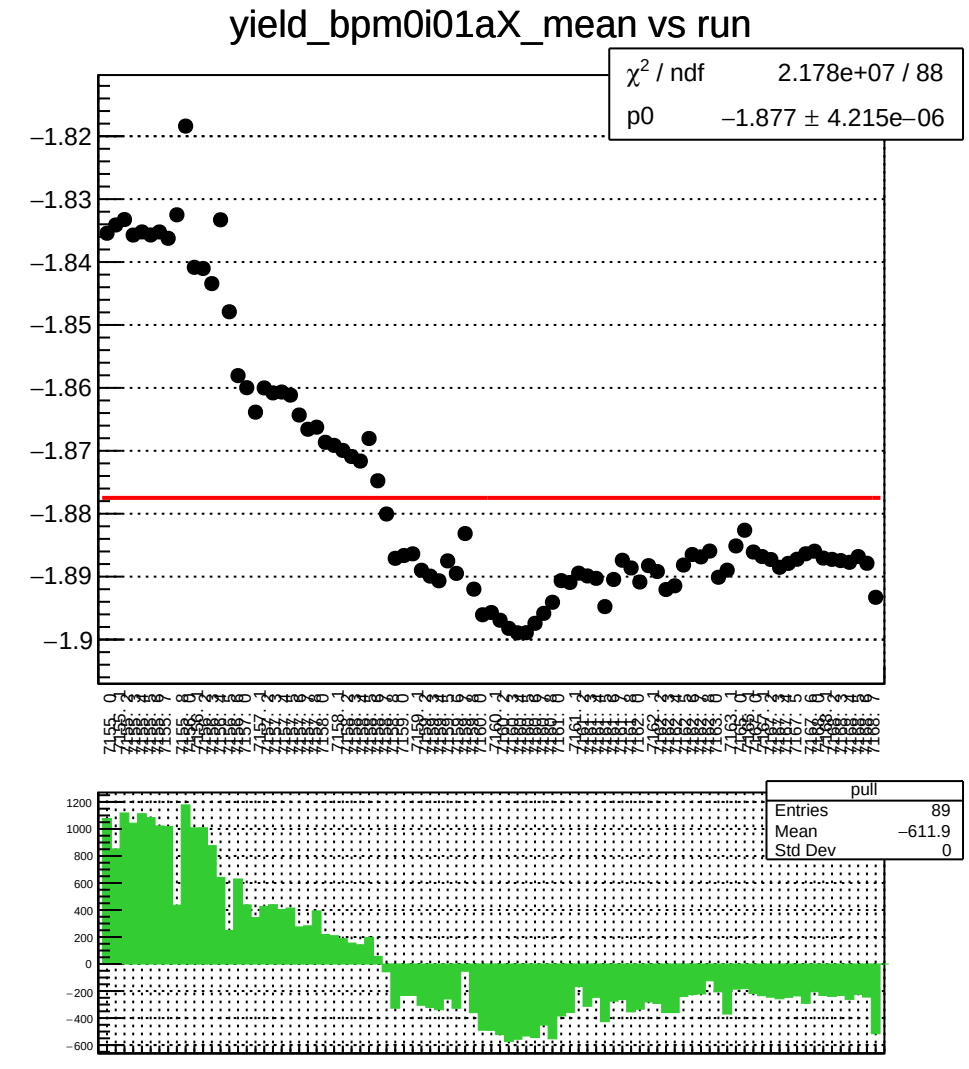

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

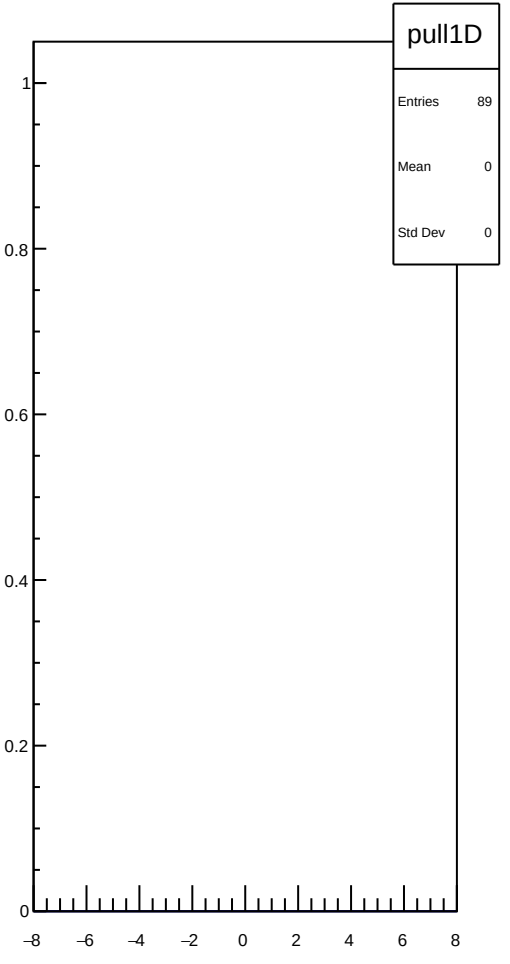

yield_bpm0i01X_rms vs run
χ² / ndf 1.735e+04 / 88
p0 0.006582 ± 5.029e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

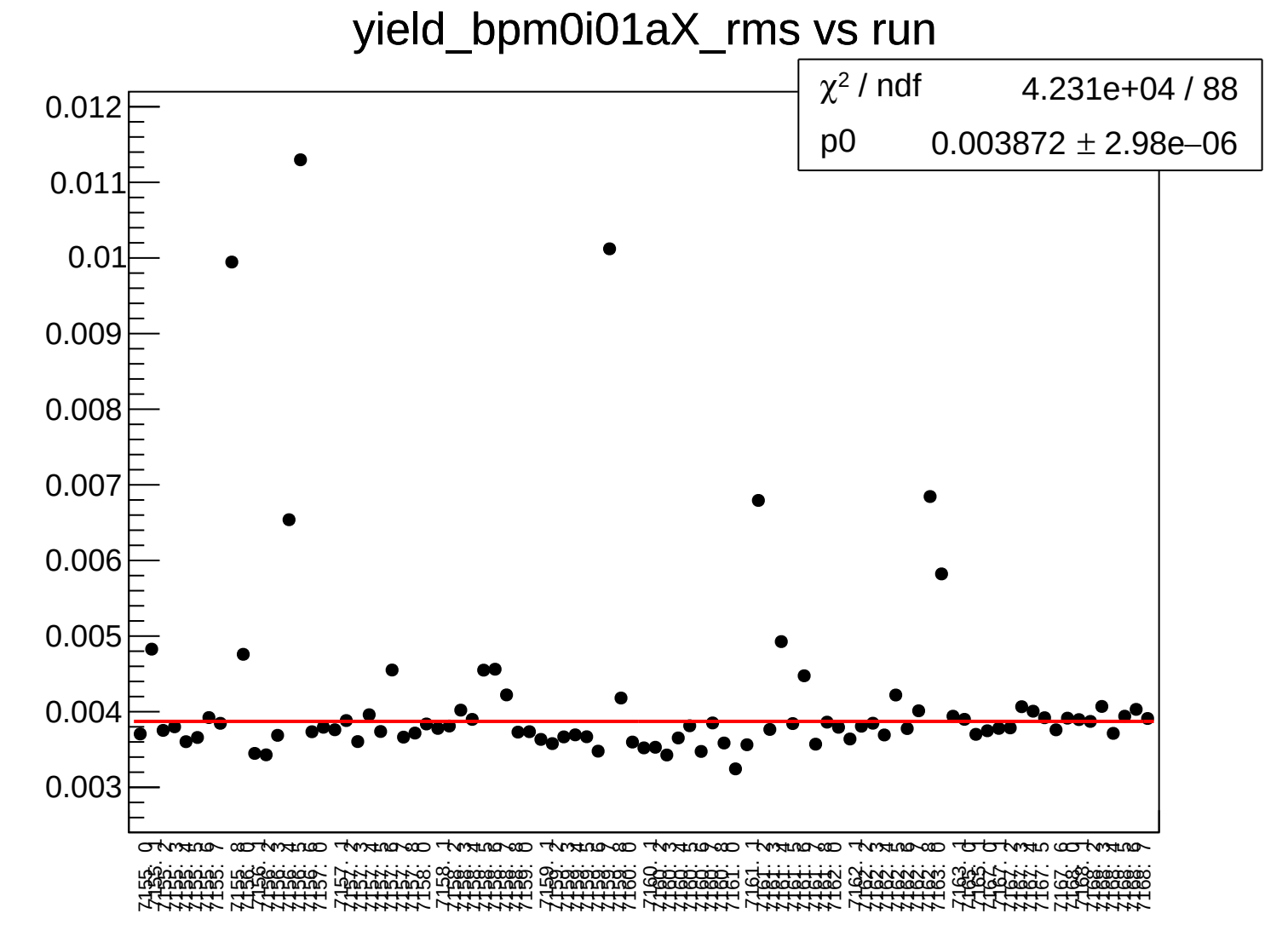

yield_bpm0i01Y_mean vs run
χ² / ndf 2.508e+07 / 88
p0 0.5979 ± 2.343e−06
0.65
0.64
0.63
0.62
0.61
0.6
0.59
0.58
pull
Entries 89
Mean −694.6
Std Dev 0
1000
500
0
−500
−1000

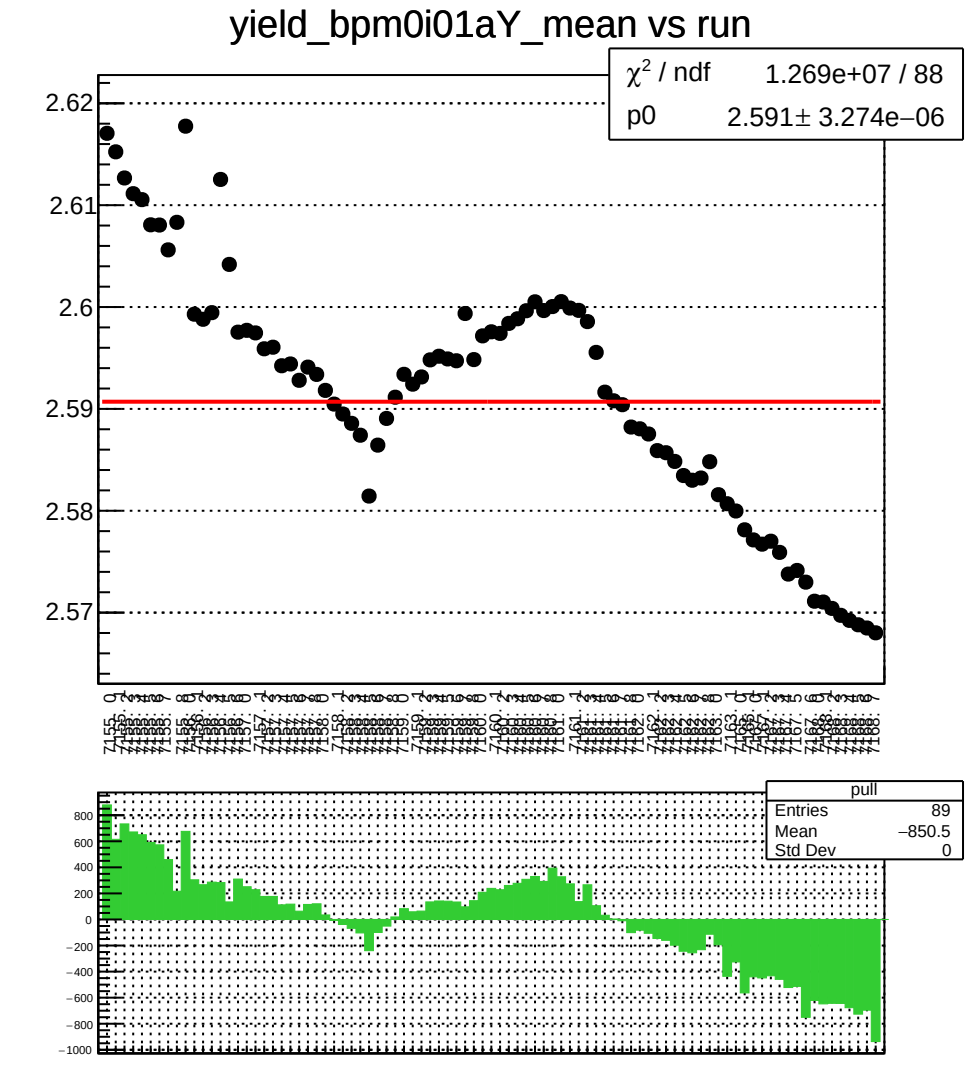

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

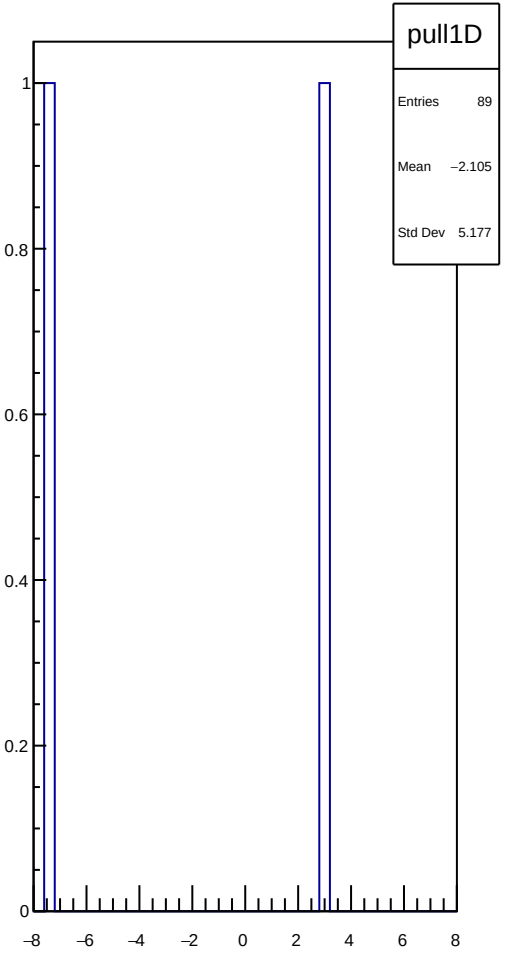

yield_bpm0i01Y_rms vs run
χ² / ndf 1.375e+05 / 88
p0 0.002091 ± 1.657e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

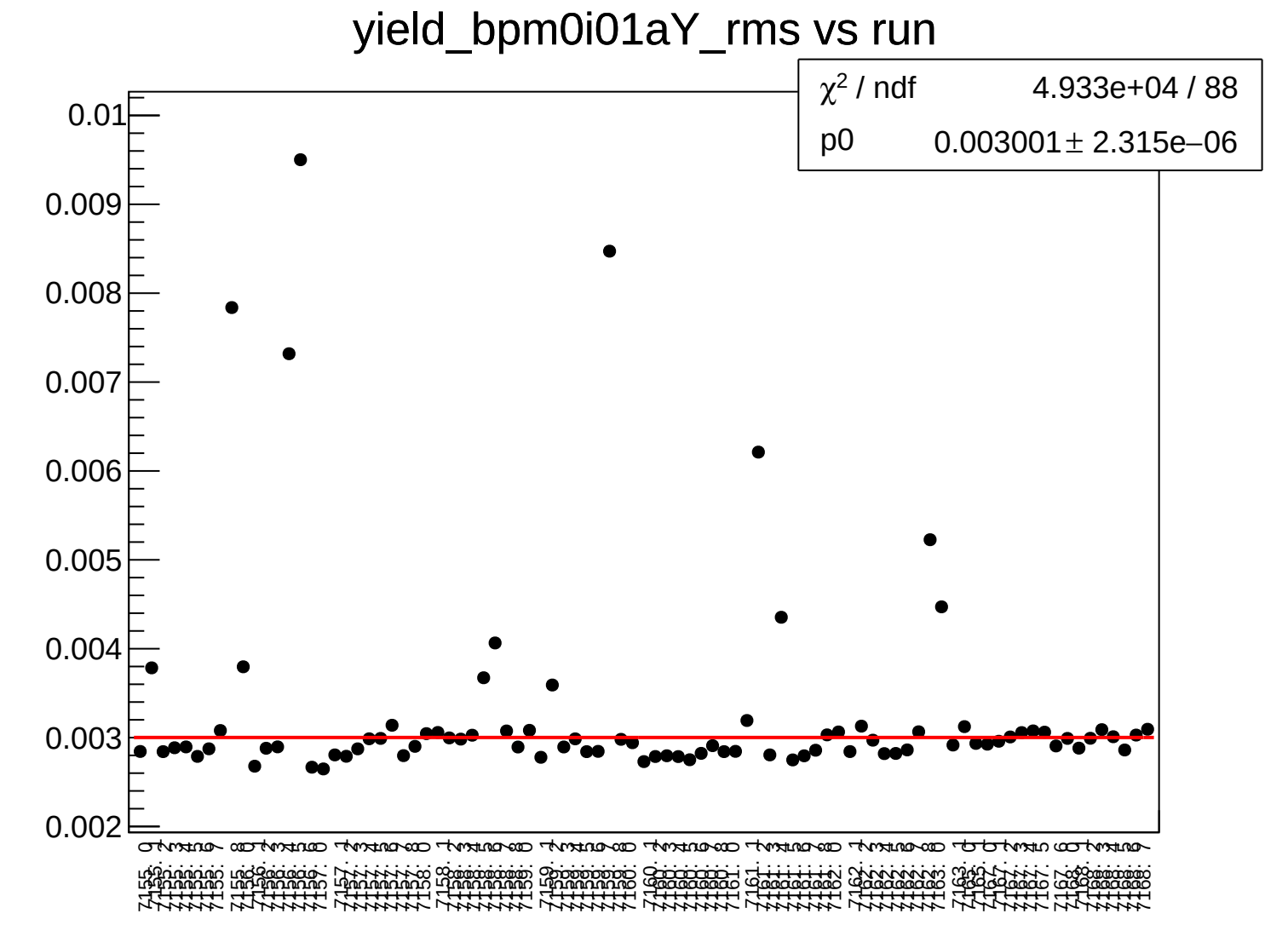

yield_bpm0i01aX_mean vs run
χ² / ndf 2.178e+07 / 88
p0 −1.877 ± 4.215e−06
−1.82
−1.83
−1.84
−1.85
−1.86
−1.87
−1.88
−1.89
−1.9
pull
Entries 89
Mean −611.9
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

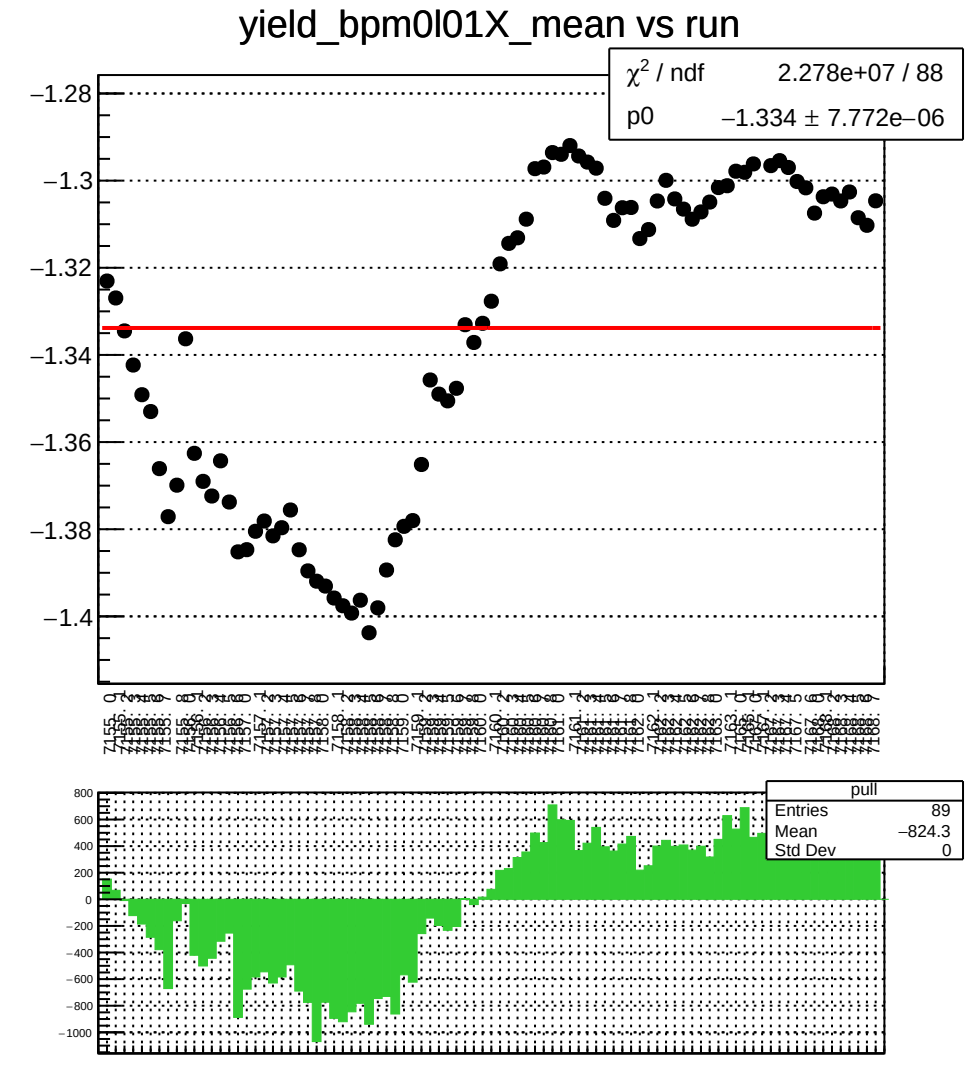

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

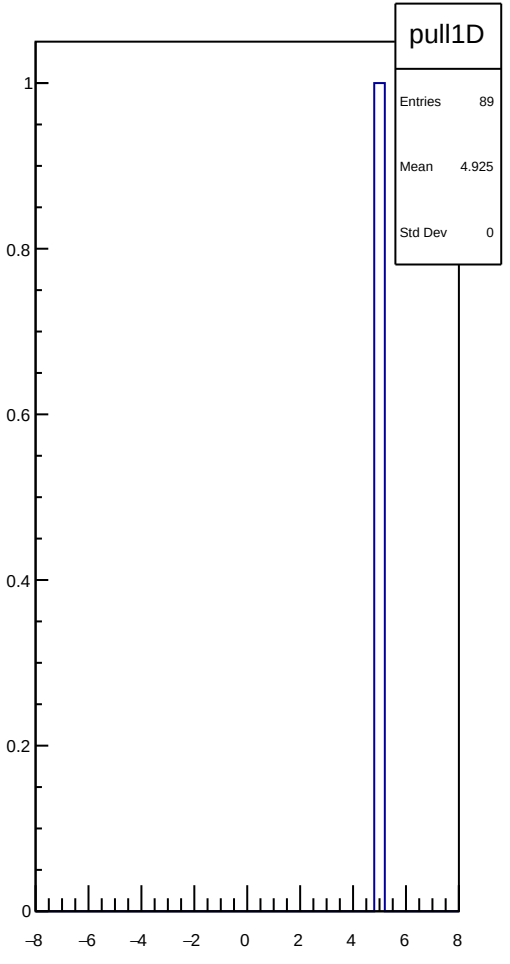

yield_bpm0i01aX_rms vs run
χ² / ndf 4.231e+04 / 88
p0 0.003872 ± 2.98e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

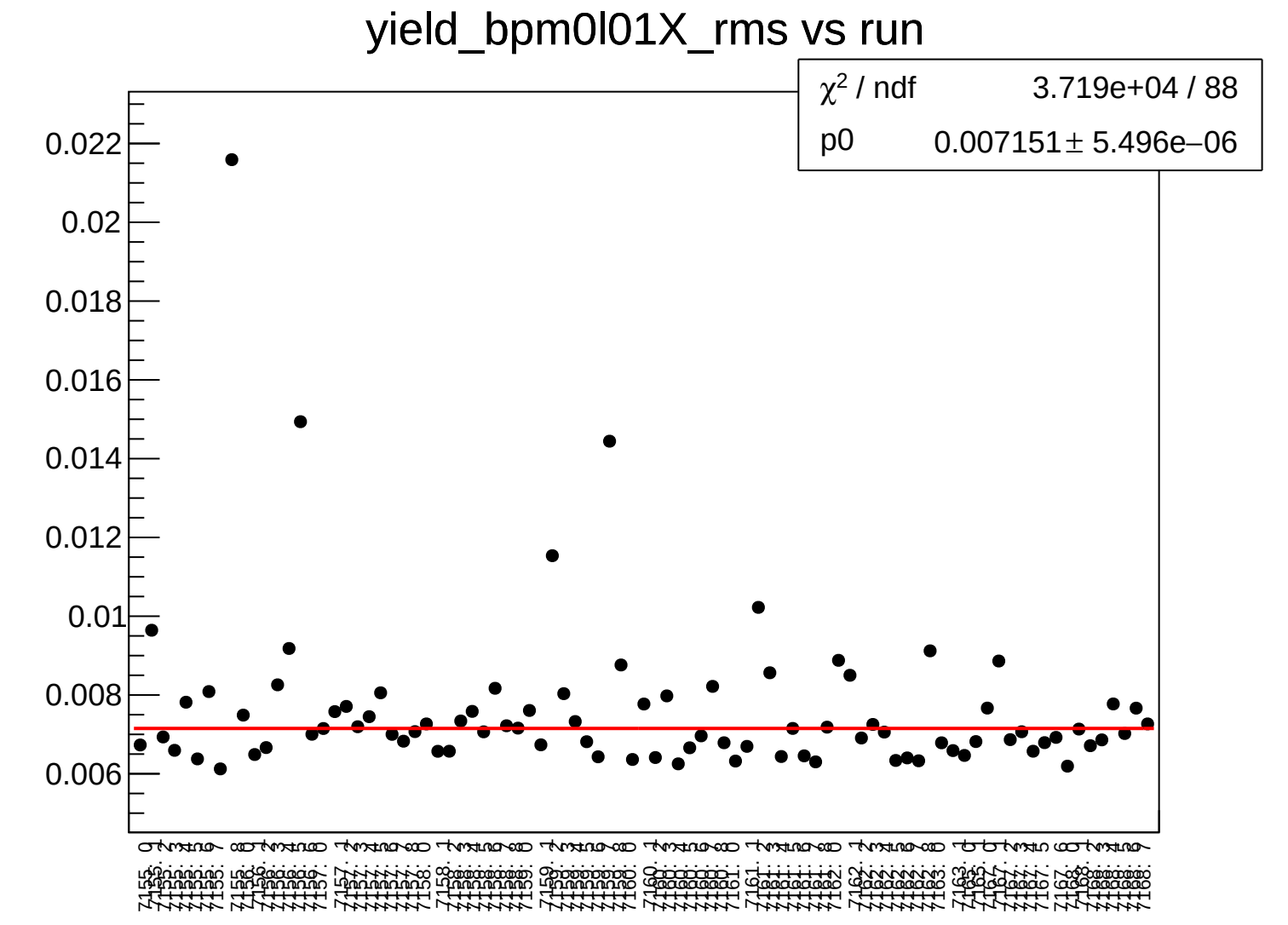

yield_bpm0i01aY_mean vs run
χ² / ndf 1.269e+07 / 88
p0 2.591± 3.274e−06
2.62
2.61
2.6
2.59
2.58
2.57
pull
Entries 89
Mean −850.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

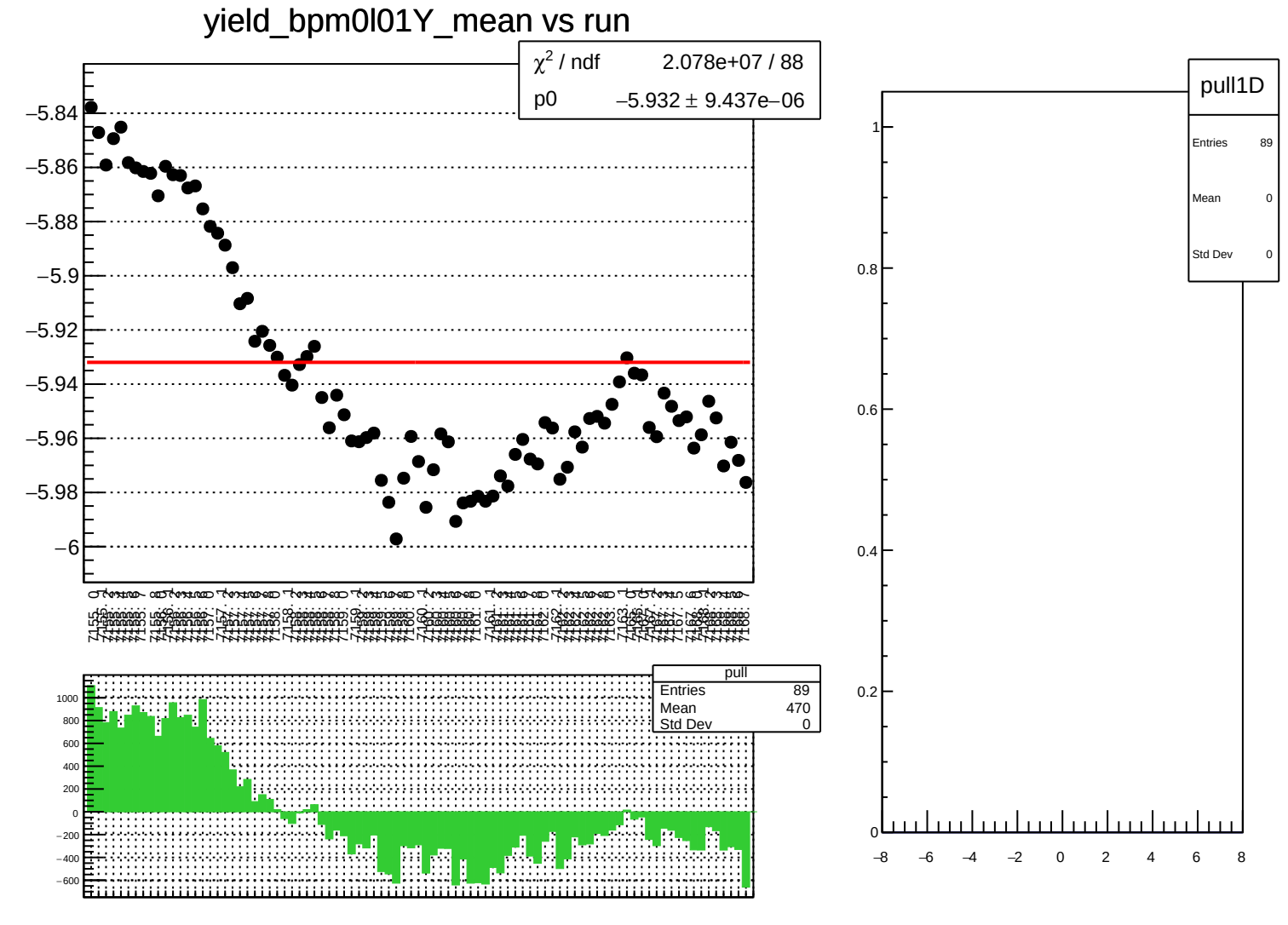

pull1D
Entries 89
Mean −2.105
Std Dev 5.177
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

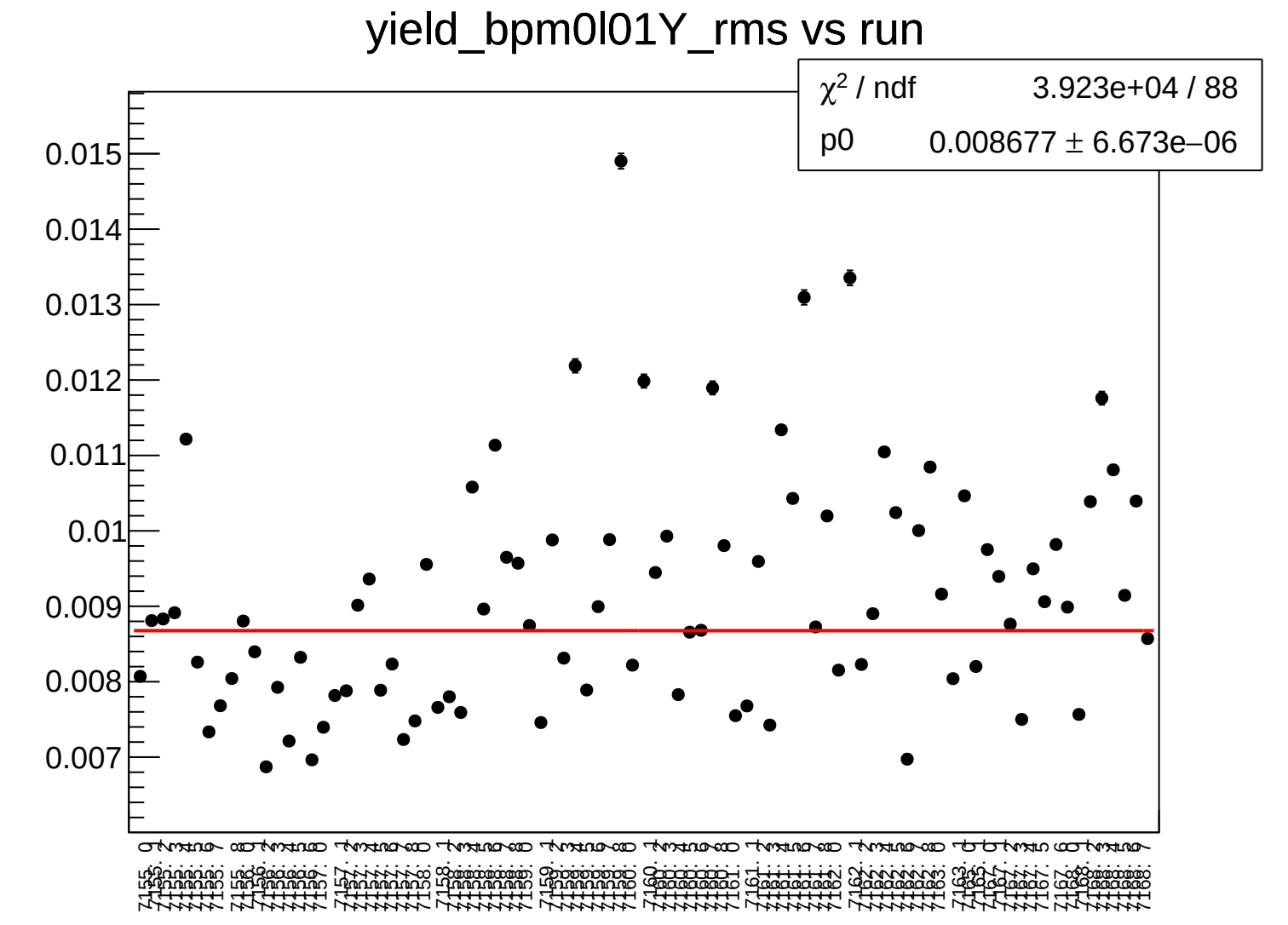

yield_bpm0i01aY_rms vs run
χ² / ndf 4.933e+04 / 88
p0 0.003001 ± 2.315e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

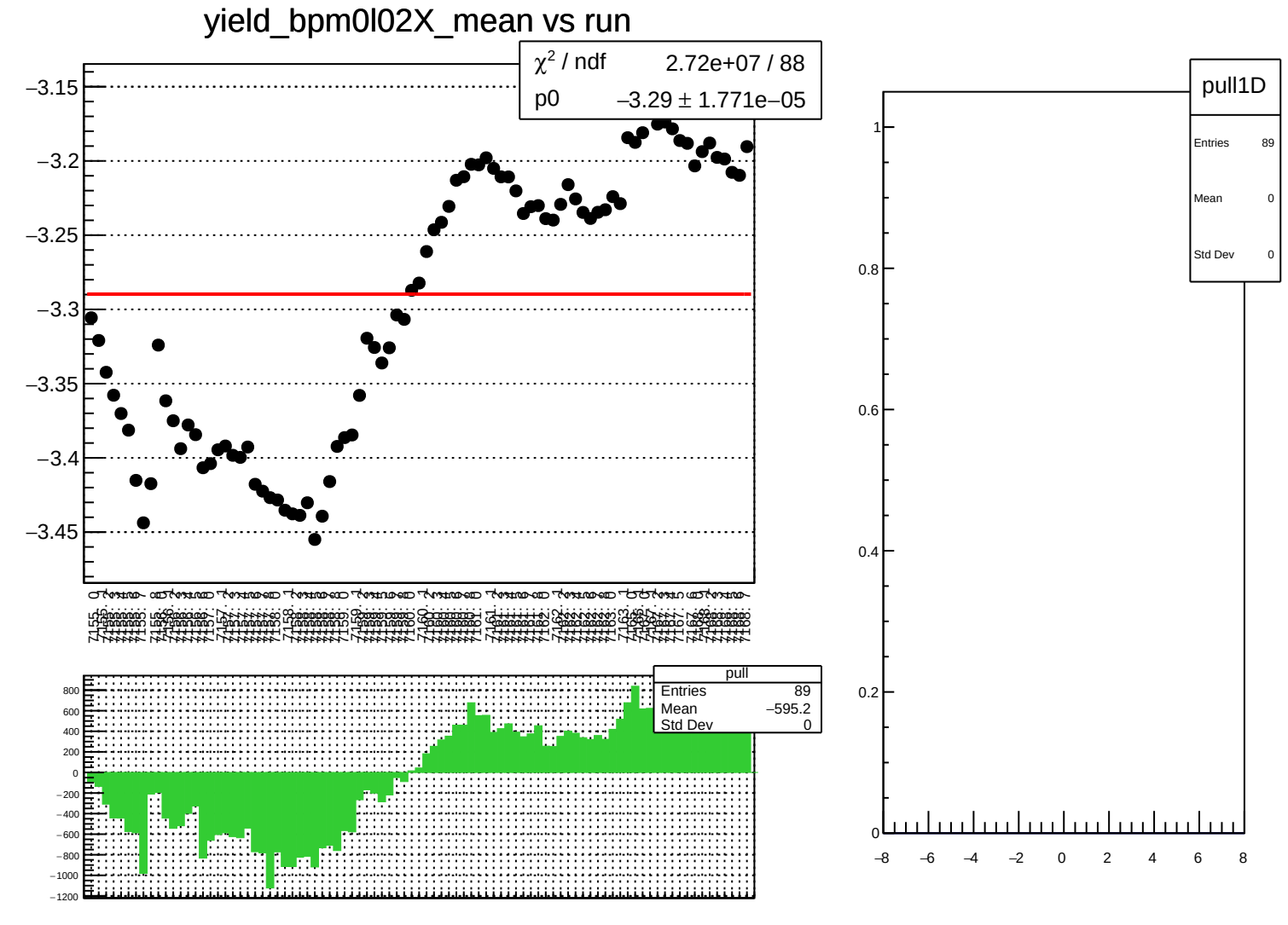

yield_bpm0l01X_mean vs run
χ² / ndf 2.278e+07 / 88
p0 −1.334 ± 7.772e−06
−1.28
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
pull
Entries 89
Mean −824.3
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

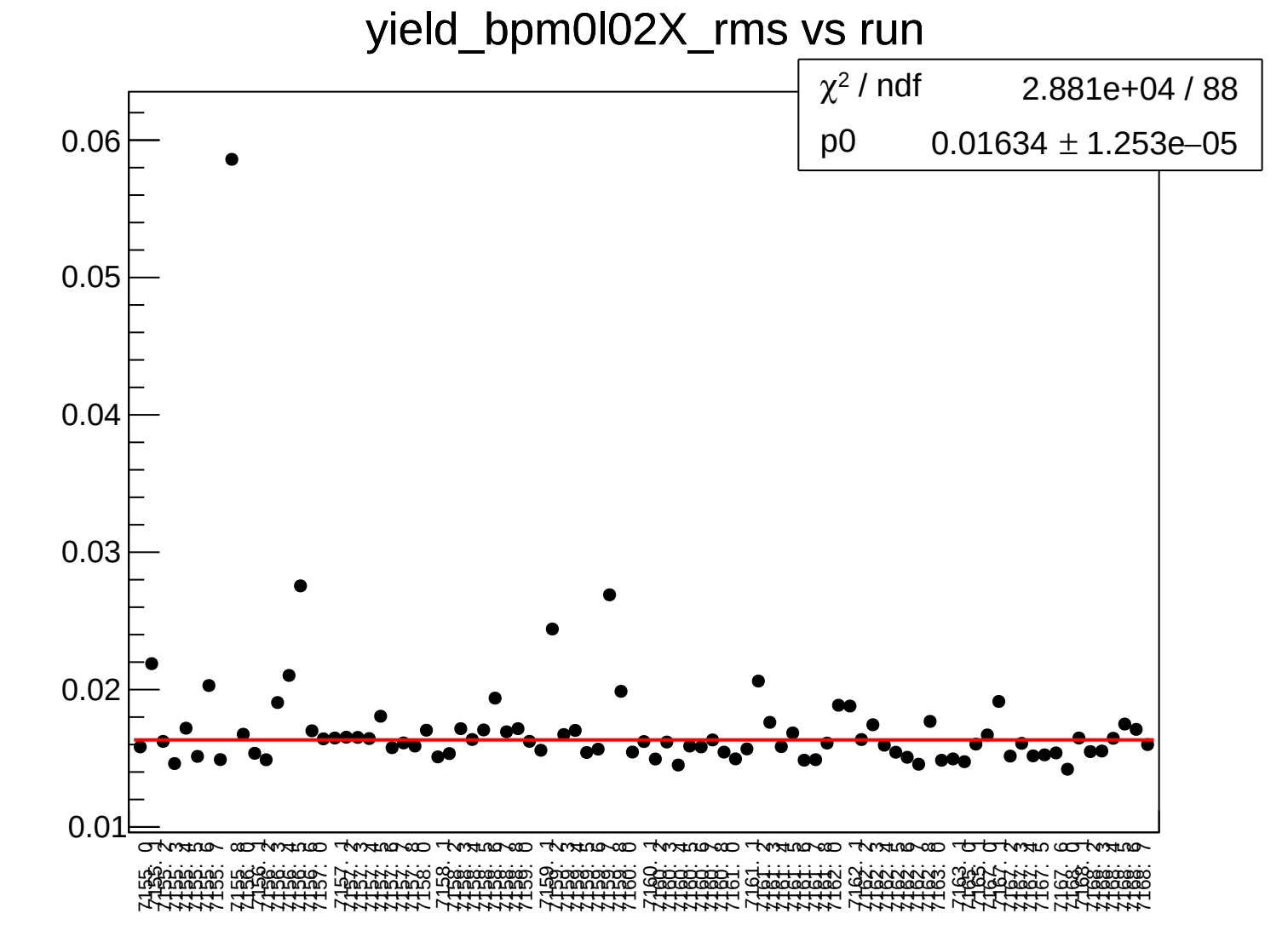

pull1D
Entries 89
Mean 4.925
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

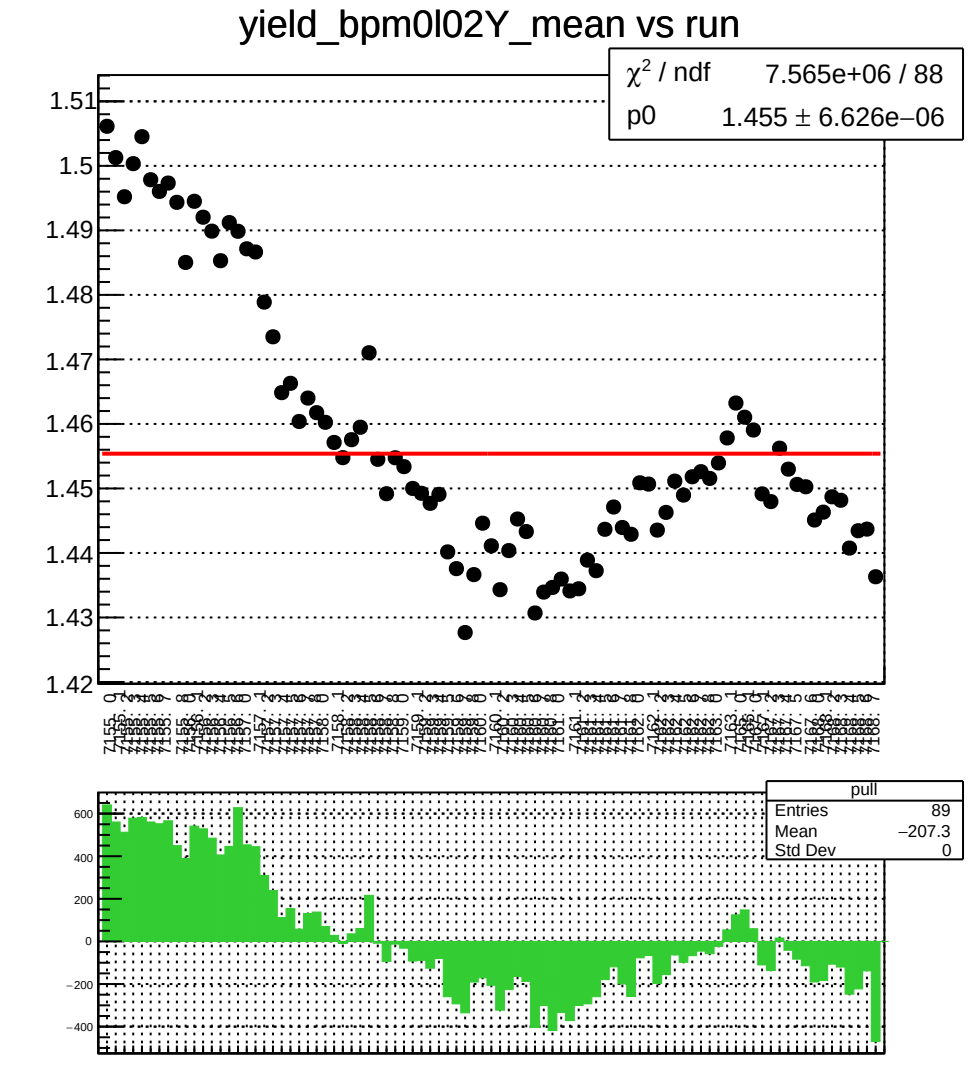

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.719e+04 / 88
p0 0.007151 ± 5.496e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

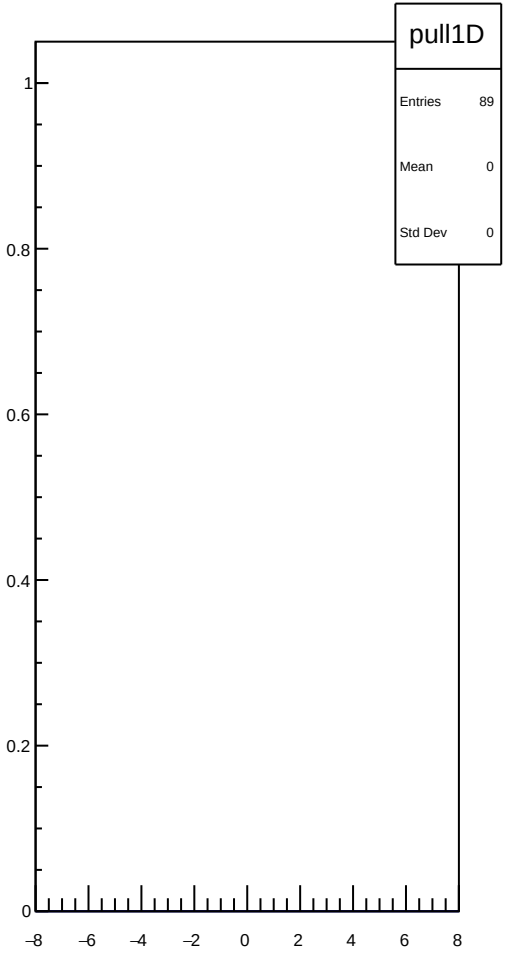

yield_bpm0l01Y_mean vs run
χ² / ndf 2.078e+07 / 88
p0 −5.932 ± 9.437e−06
−5.84
−5.86
−5.88
−5.9
−5.92
−5.94
−5.96
−5.98
−6
pull
Entries 89
Mean 470
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

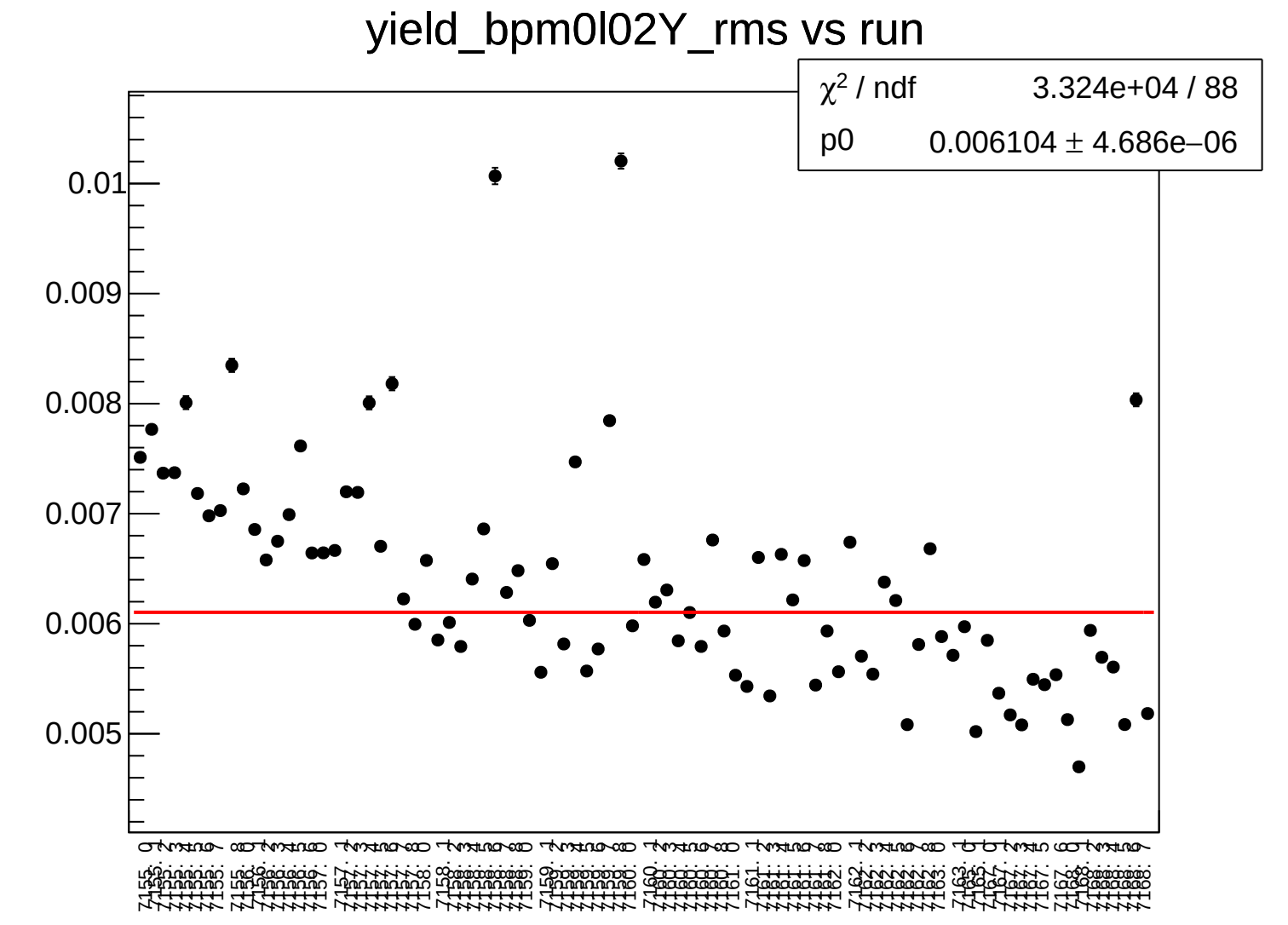

yield_bpm0l01Y_rms vs run
χ^2 / ndf 3.923e+04 / 88
p0 0.008677 ± 6.673e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

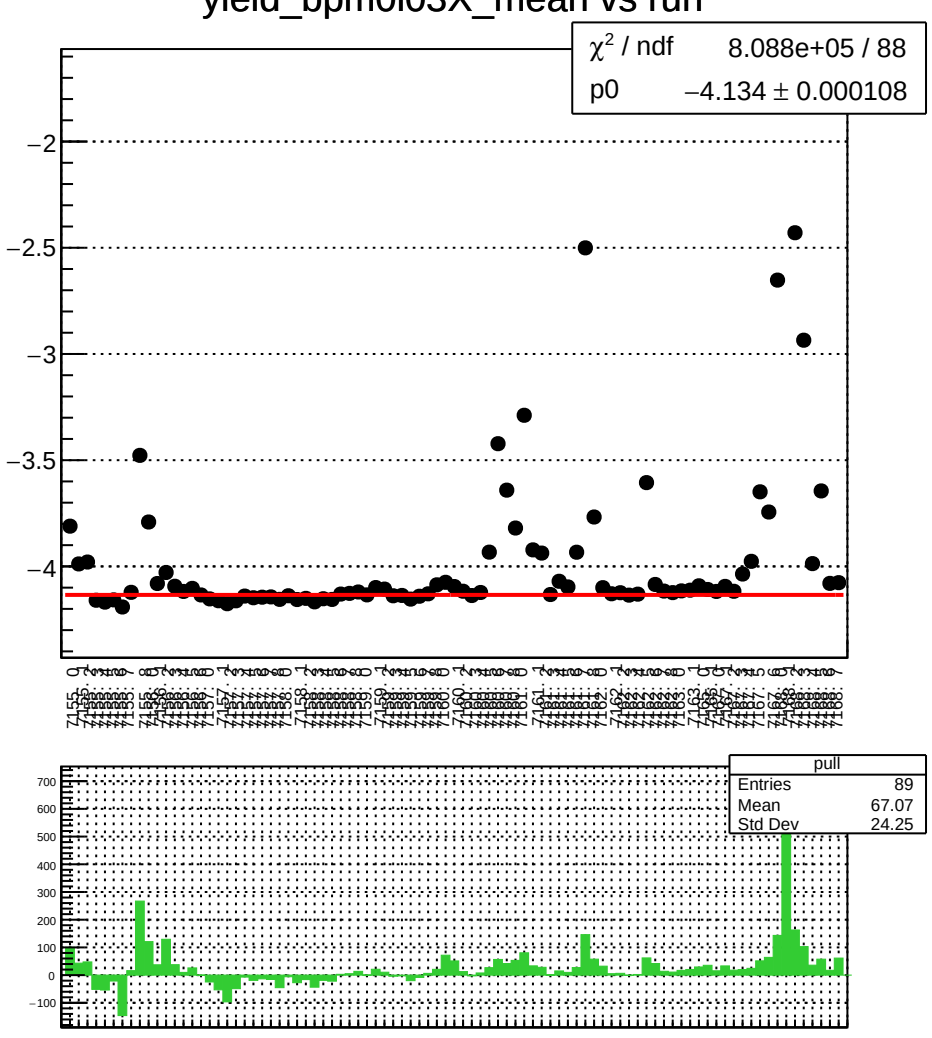

yield_bpm0l02X_mean vs run
χ² / ndf 2.72e+07 / 88
p0 −3.29 ± 1.771e−05
−3.15
−3.2
−3.25
−3.3
−3.35
−3.4
−3.45
pull
Entries 89
Mean −595.2
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

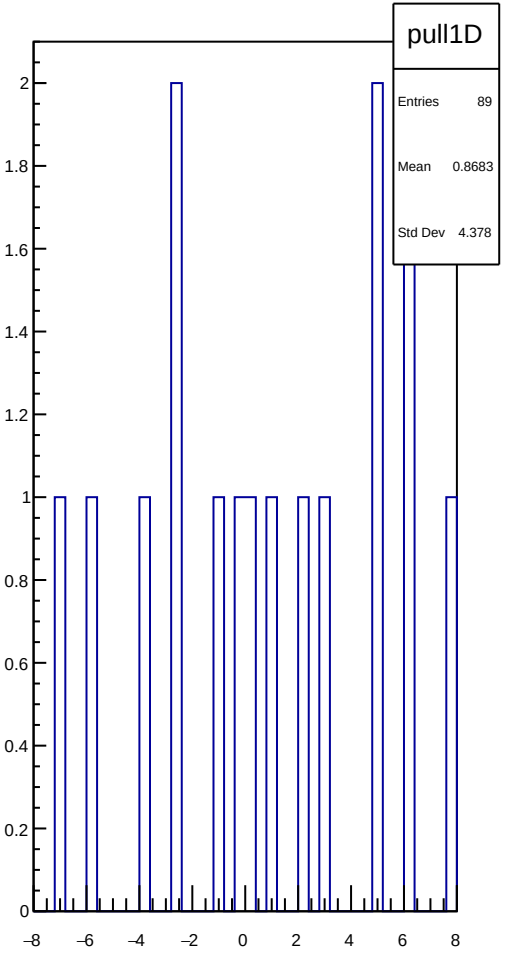

yield_bpm0l02X_rms vs run
χ² / ndf 2.881e+04 / 88
p0 0.01634 ± 1.253e−05
0.06
0.05
0.04
0.03
0.02
0.01

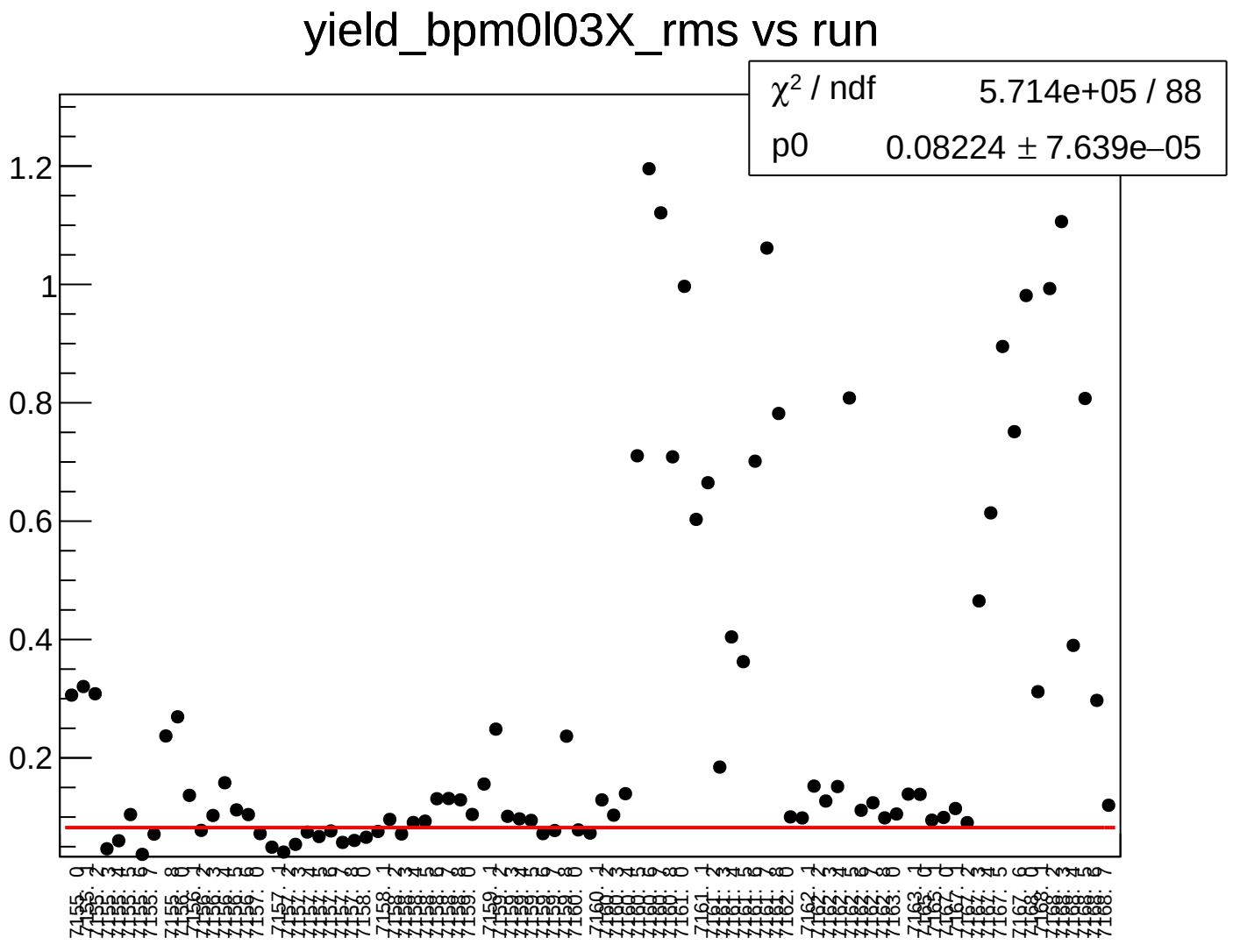

yield_bpm0l02Y_mean vs run
χ² / ndf 7.565e+06 / 88
p0 1.455 ± 6.626e−06
1.51
1.5
1.49
1.48
1.47
1.46
1.45
1.44
1.43
1.42
pull
Entries 89
Mean −207.3
Std Dev 0
600
400
200
0
−200
−400

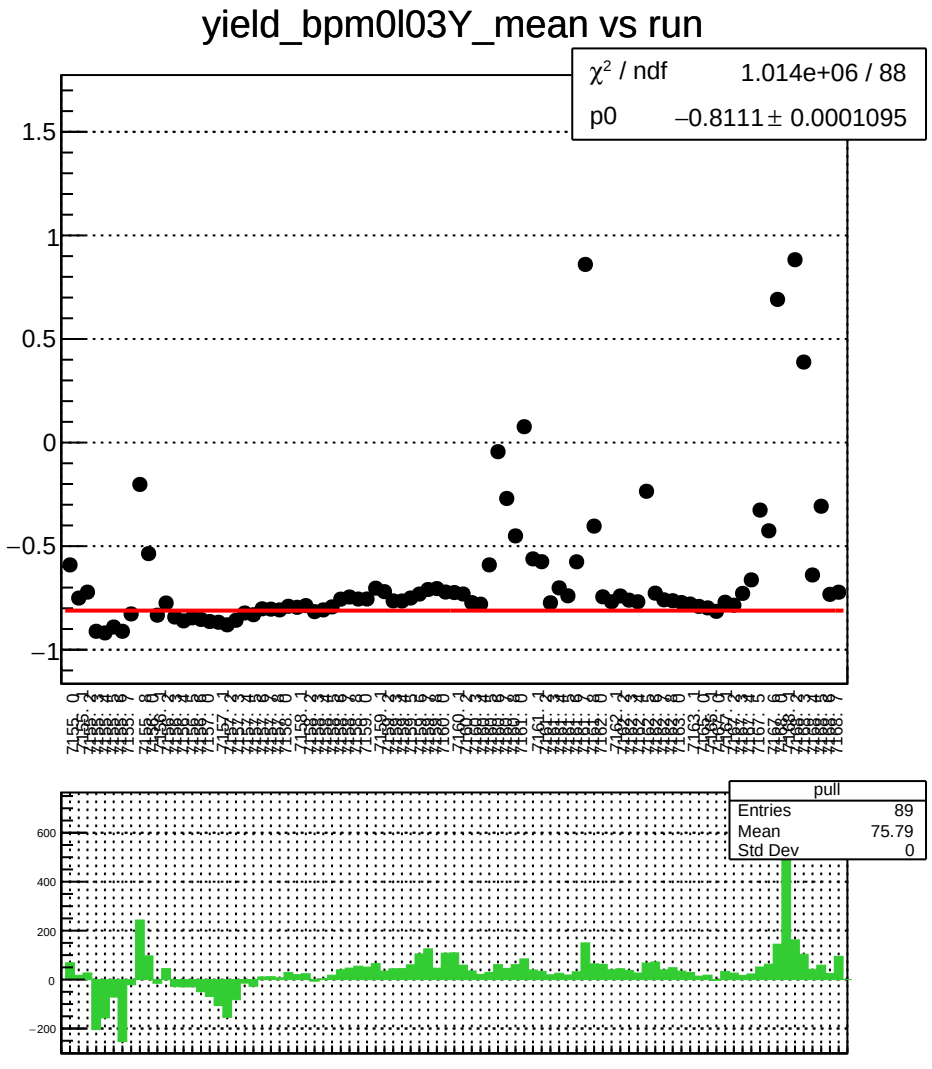

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

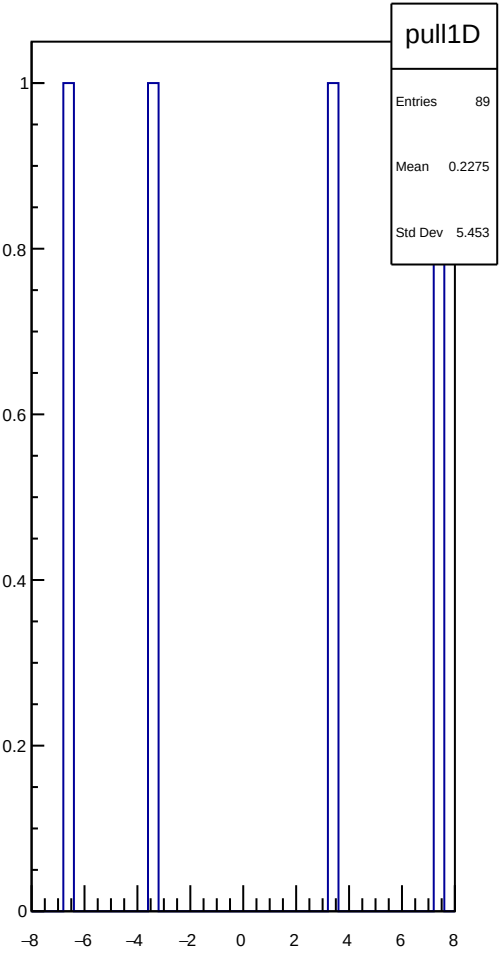

yield_bpm0l02Y_rms vs run
χ² / ndf 3.324e+04 / 88
p0 0.006104 ± 4.686e−06
0.01
0.009
0.008
0.007
0.006
0.005

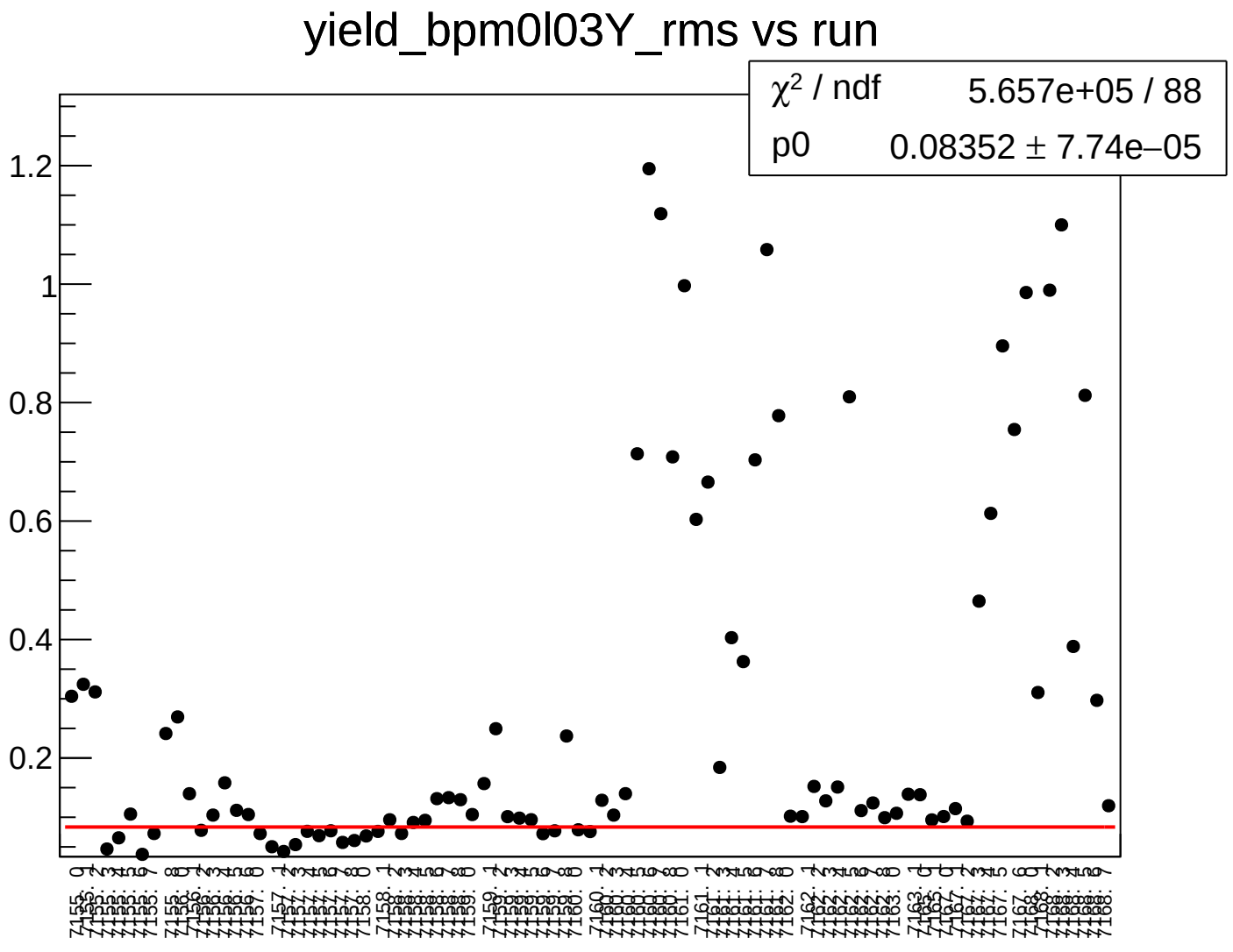

yield_bpm0l03X_mean vs run
χ² / ndf 8.088e+05 / 88
p0 −4.134 ± 0.000108
−2
−2.5
−3
−3.5
−4
pull
Entries 89
Mean 67.07
Std Dev 24.25
700
600
500
400
300
200
100
0
−100

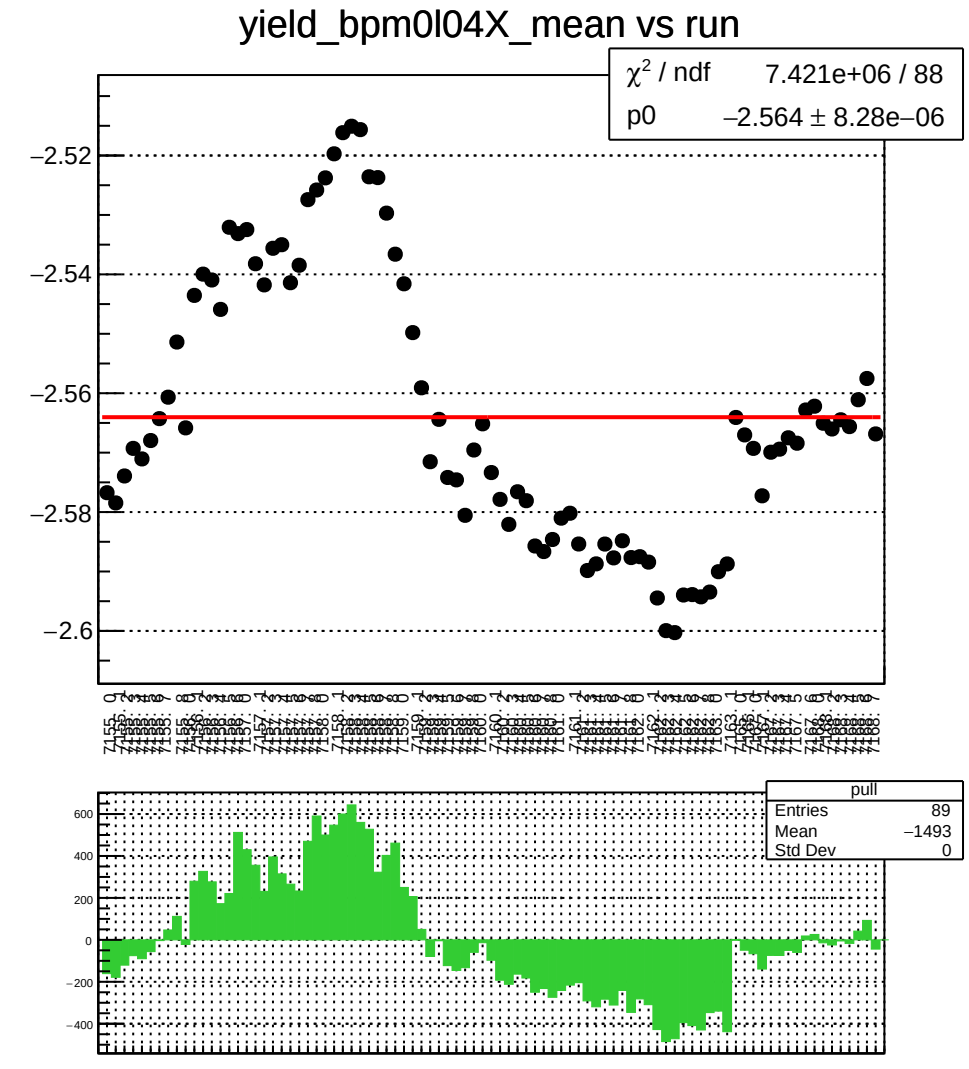

pull1D
Entries 89
Mean 0.8683
Std Dev 4.378
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

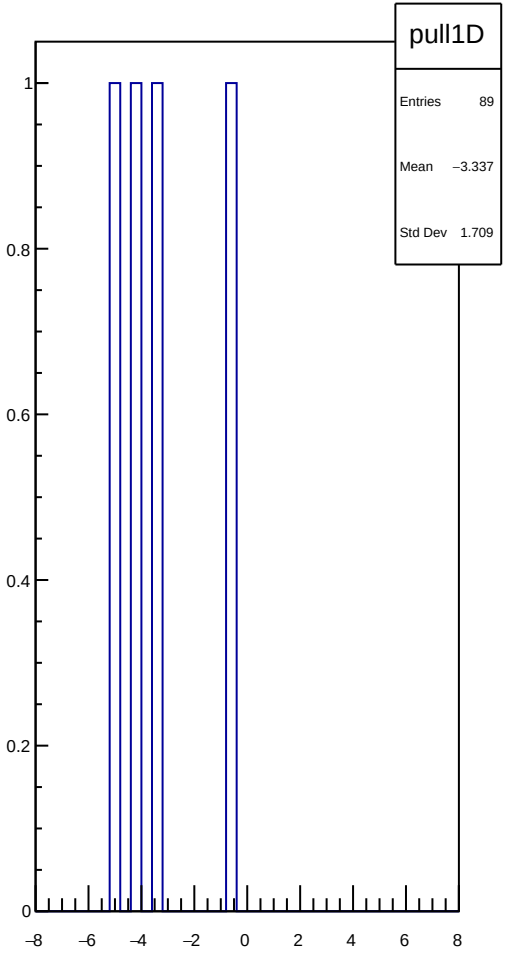

yield_bpm0l03X_rms vs run
χ² / ndf 5.714e+05 / 88
p0 0.08224 ± 7.639e–05
1.2
1
0.8
0.6
0.4
0.2

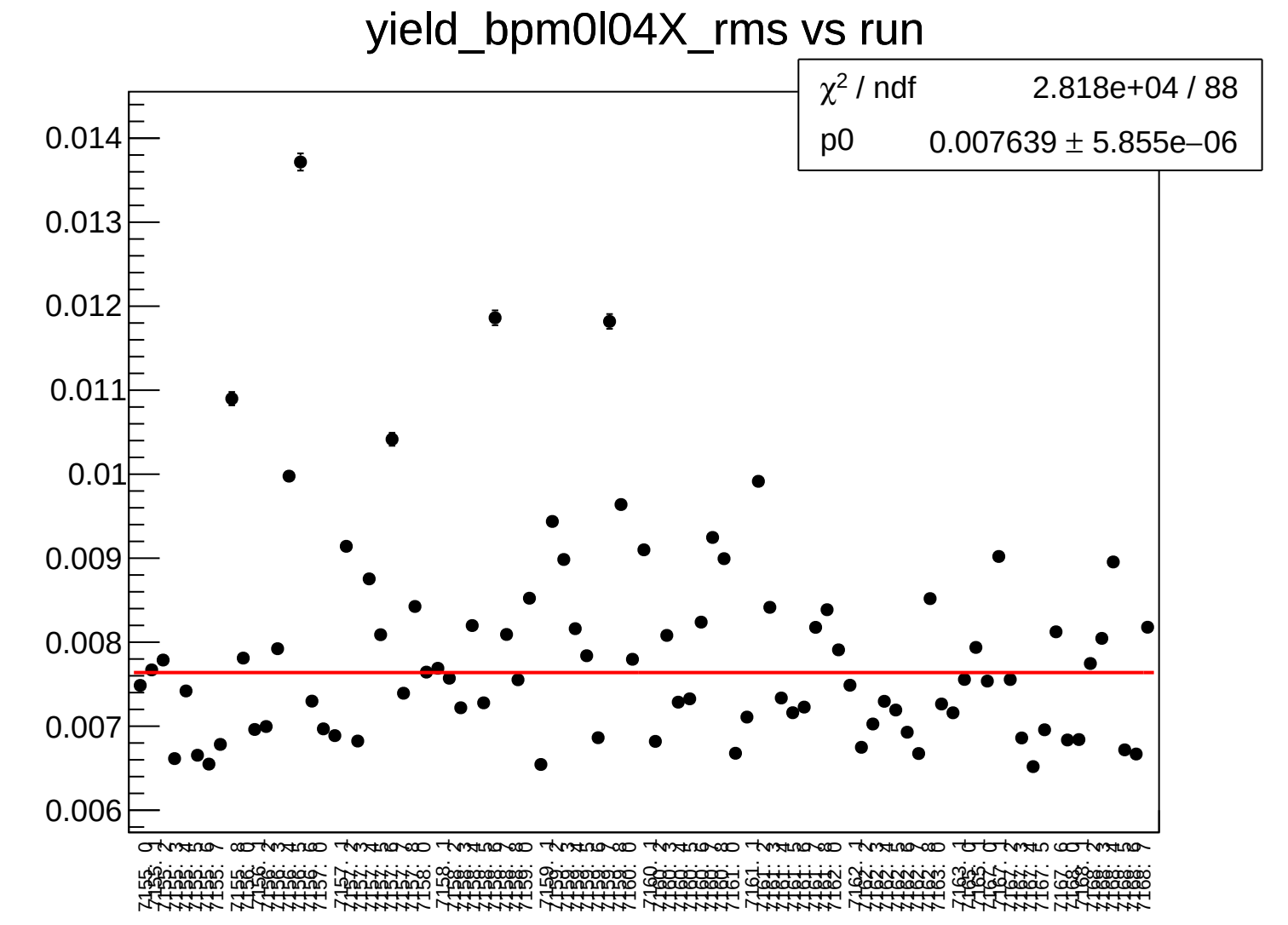

yield_bpm0l03Y_mean vs run
χ² / ndf 1.014e+06 / 88
p0 −0.8111 ± 0.0001095
pull
Entries 89
Mean 75.79
Std Dev 0

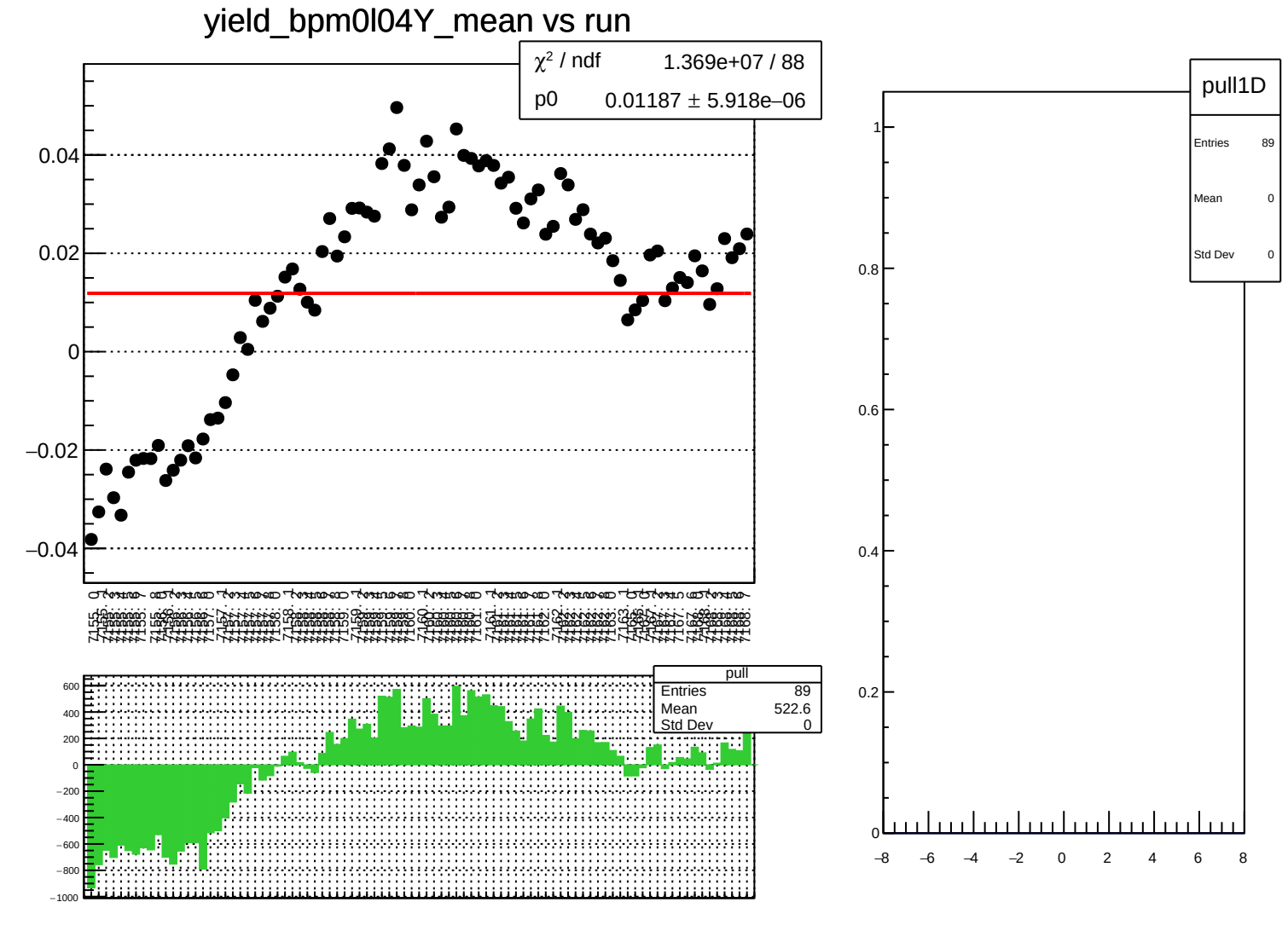

pull1D
Entries 89
Mean 0.2275
Std Dev 5.453

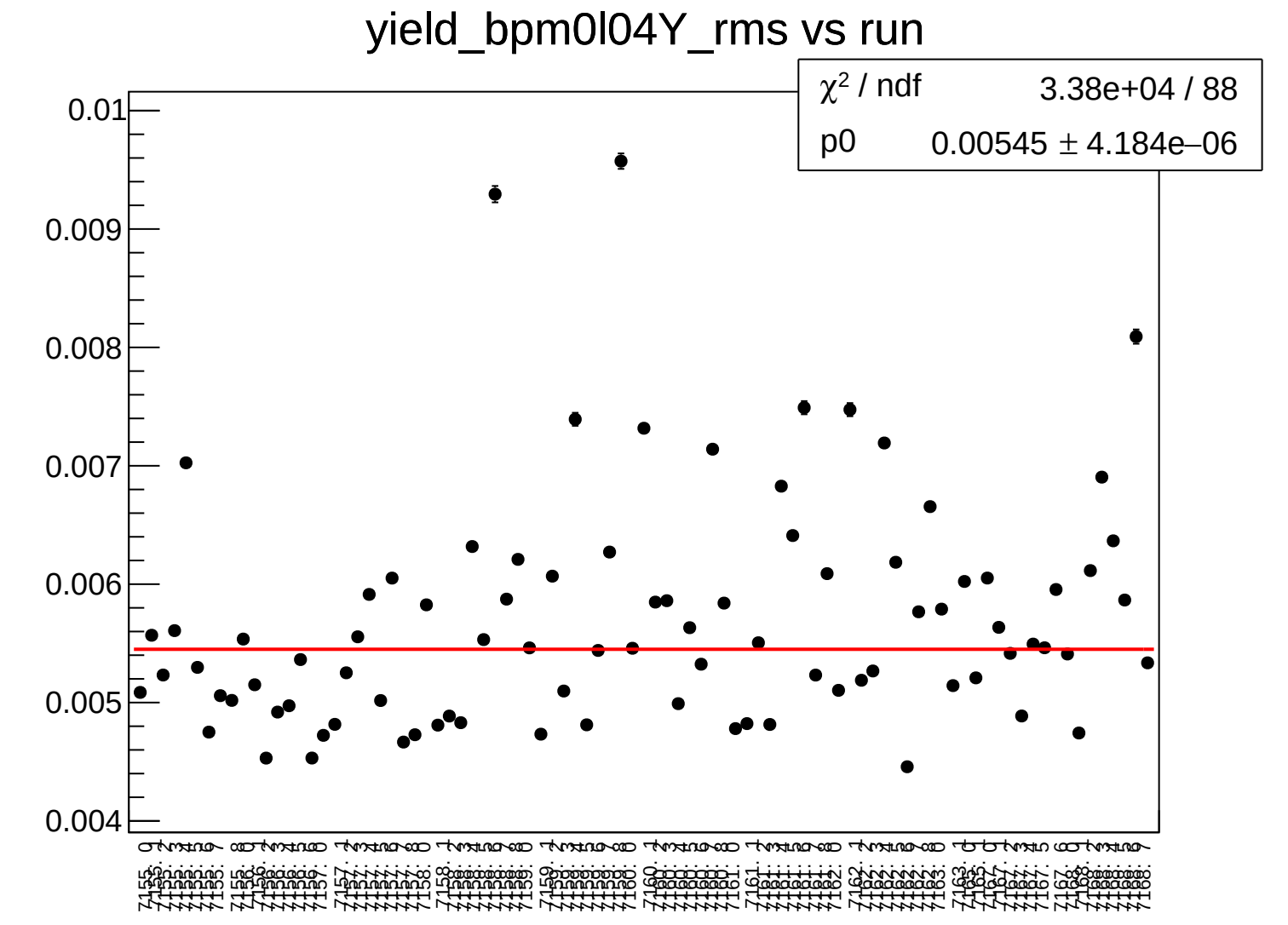

yield_bpm0l03Y_rms vs run
χ² / ndf 5.657e+05 / 88
p0 0.08352 ± 7.74e–05
1.2
1
0.8
0.6
0.4
0.2

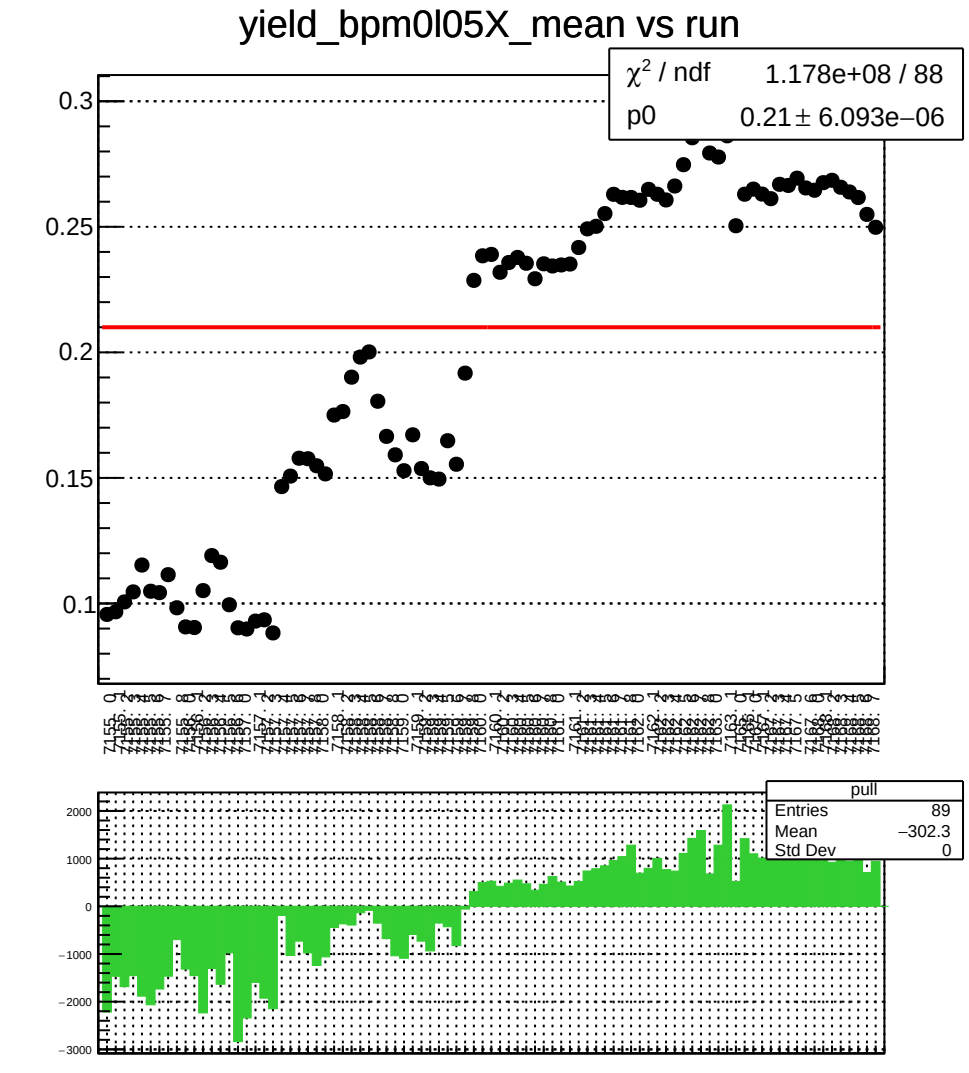

yield_bpm0l04X_mean vs run
χ² / ndf 7.421e+06 / 88
p0 −2.564 ± 8.28e−06
−2.52
−2.54
−2.56
−2.58
−2.6
pull
Entries 89
Mean −1493
Std Dev 0
600
400
200
0
−200
−400

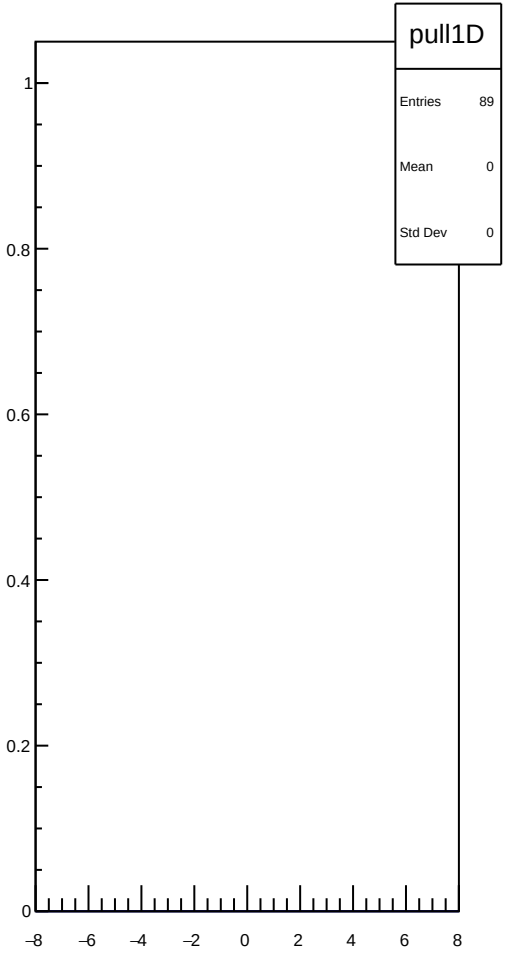

pull1D
Entries 89
Mean −3.337
Std Dev 1.709
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

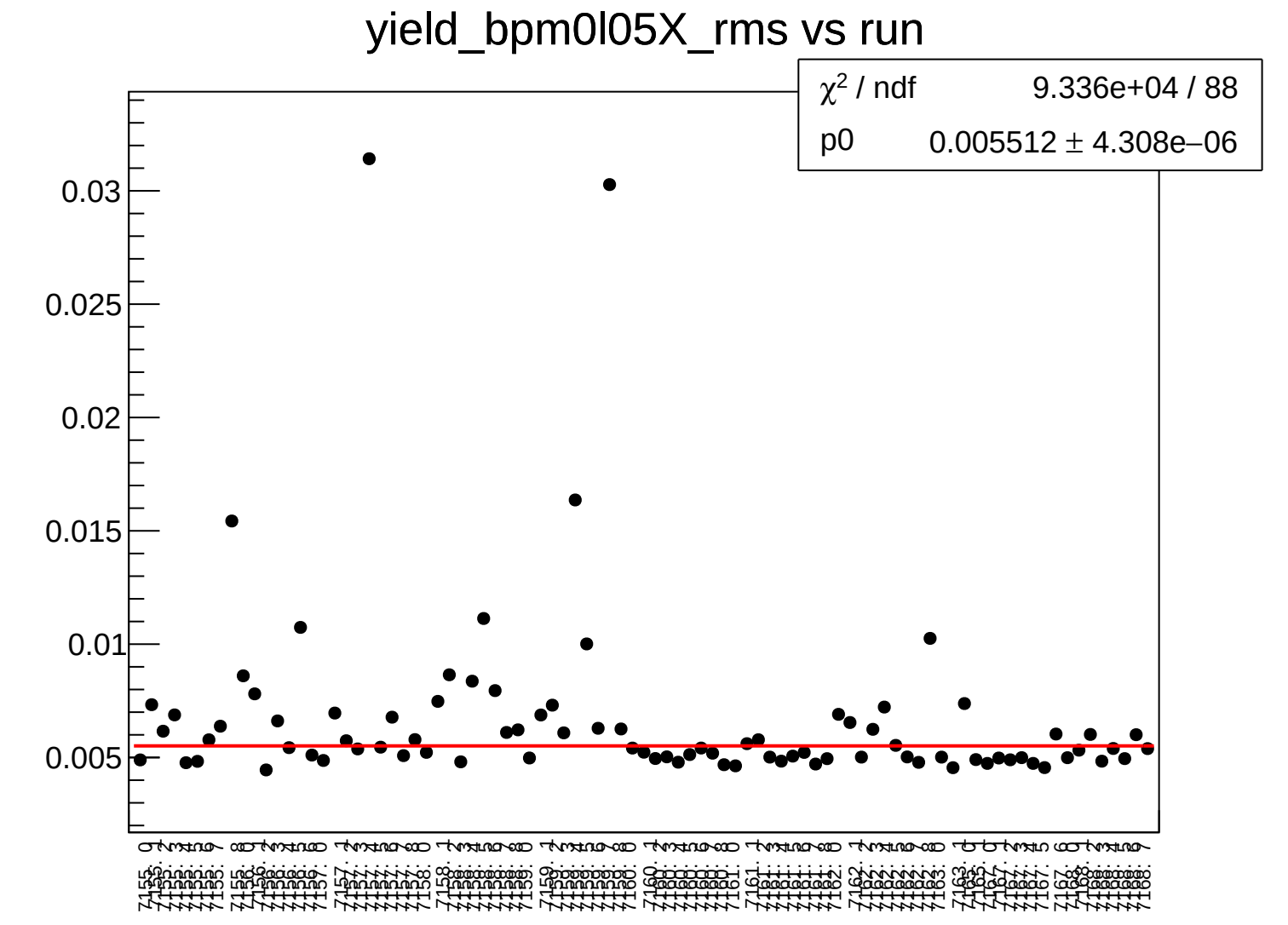

yield_bpm0l04X_rms vs run
χ² / ndf 2.818e+04 / 88
p0 0.007639 ± 5.855e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

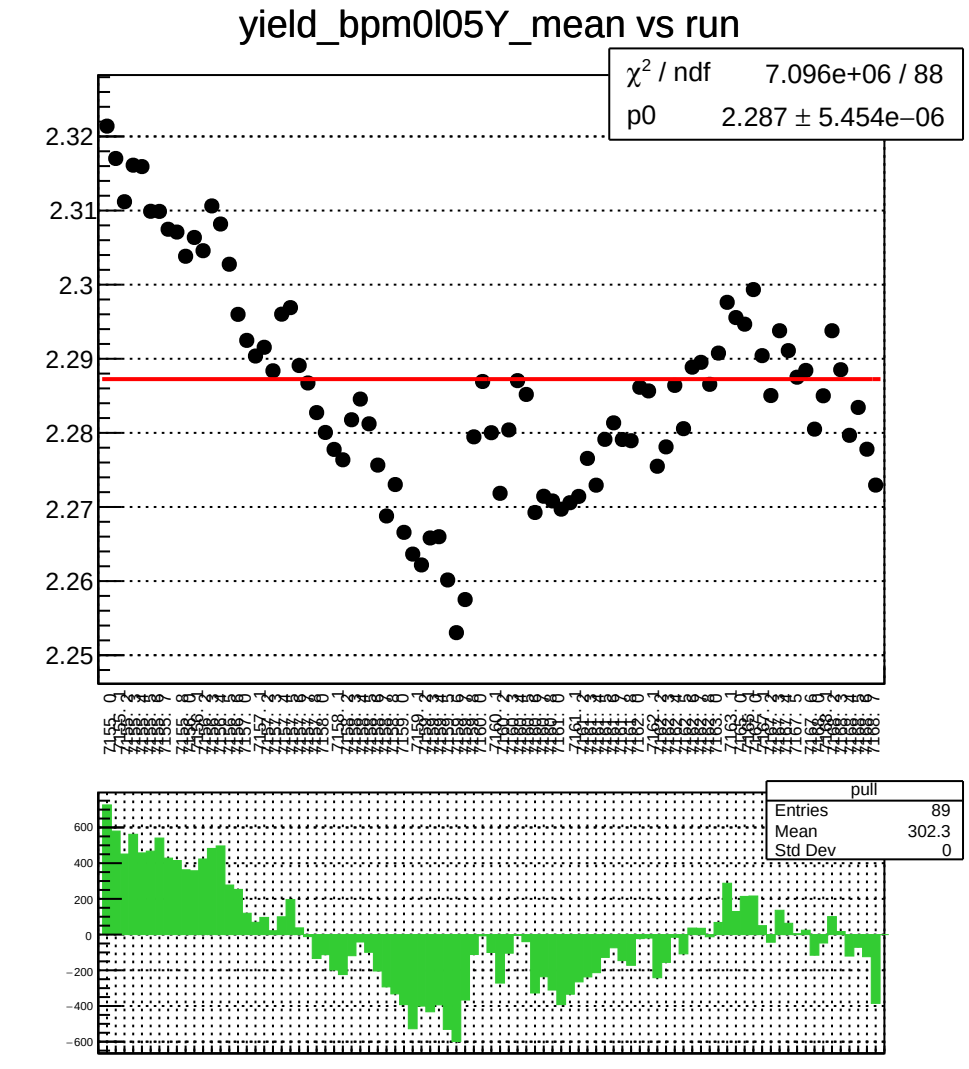

yield_bpm0l04Y_mean vs run
χ² / ndf 1.369e+07 / 88
p0 0.01187 ± 5.918e–06
0.04
0.02
0
–0.02
–0.04
pull
Entries 89
Mean 522.6
Std Dev 0
600
400
200
0
–200
–400
–600
–800
–1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

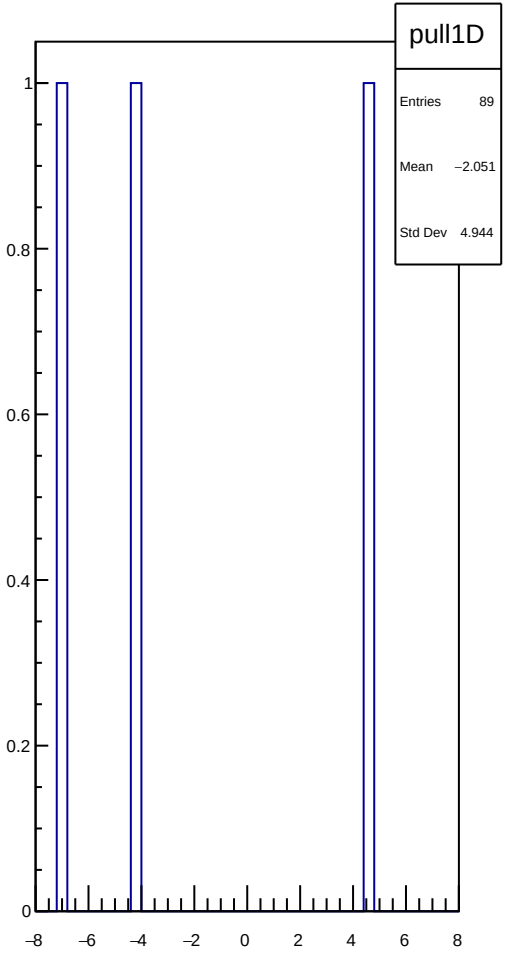

yield_bpm0l04Y_rms vs run
χ² / ndf 3.38e+04 / 88
p0 0.00545 ± 4.184e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

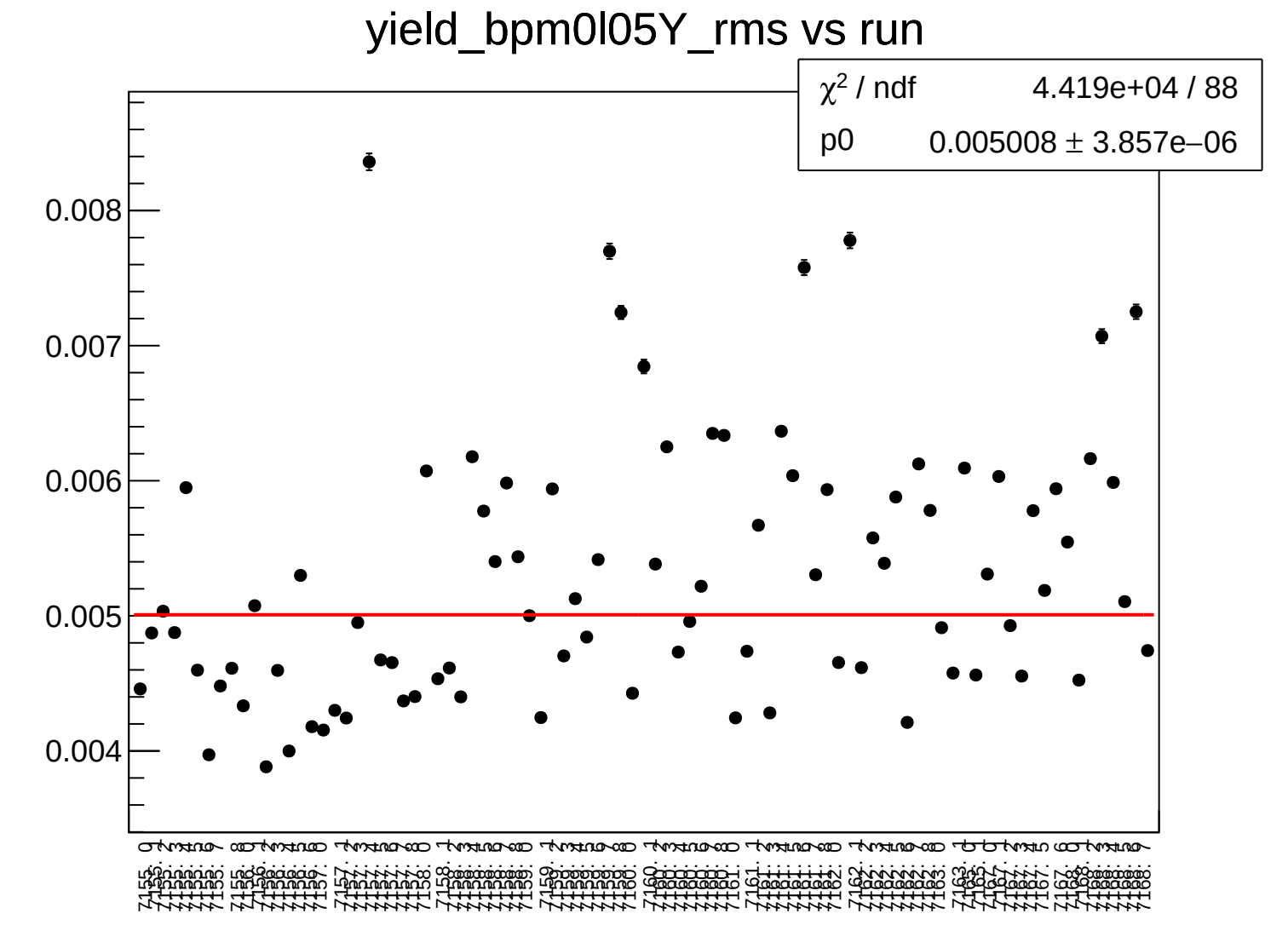

yield_bpm0l05X_mean vs run
χ² / ndf 1.178e+08 / 88
p0 0.21 ± 6.093e−06
0.3
0.25
0.2
0.15
0.1
pull
Entries 89
Mean −302.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000

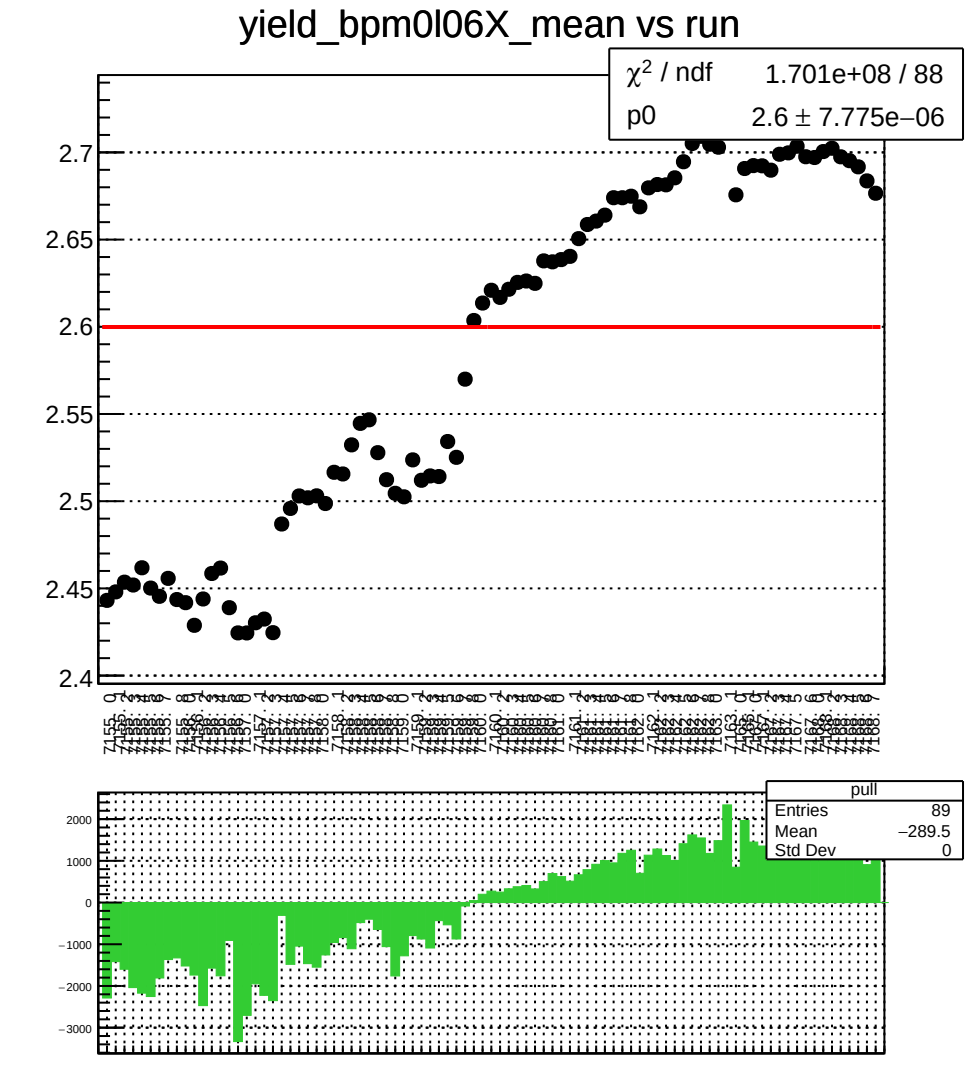

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

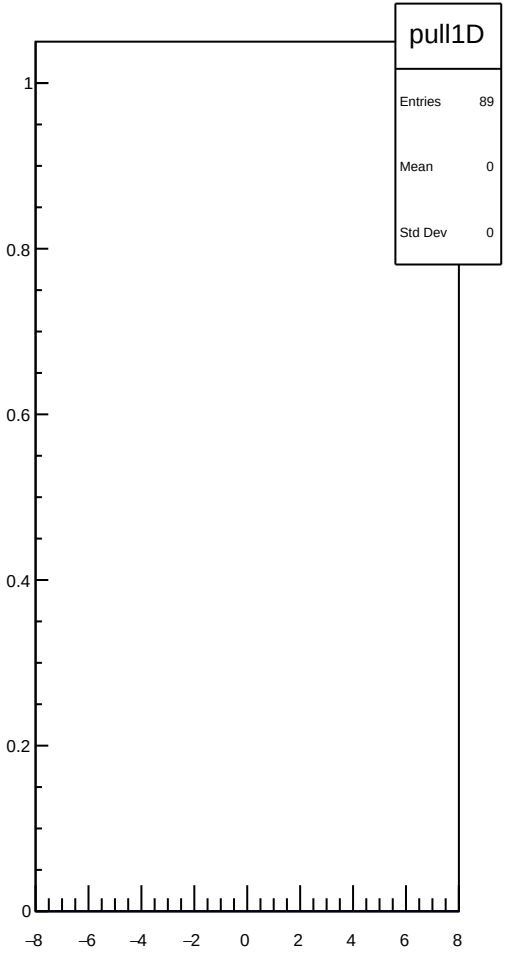

yield_bpm0l05X_rms vs run
χ^2 / ndf 9.336e+04 / 88
p0 0.005512 ± 4.308e−06
0.03
0.025
0.02
0.015
0.01
0.005

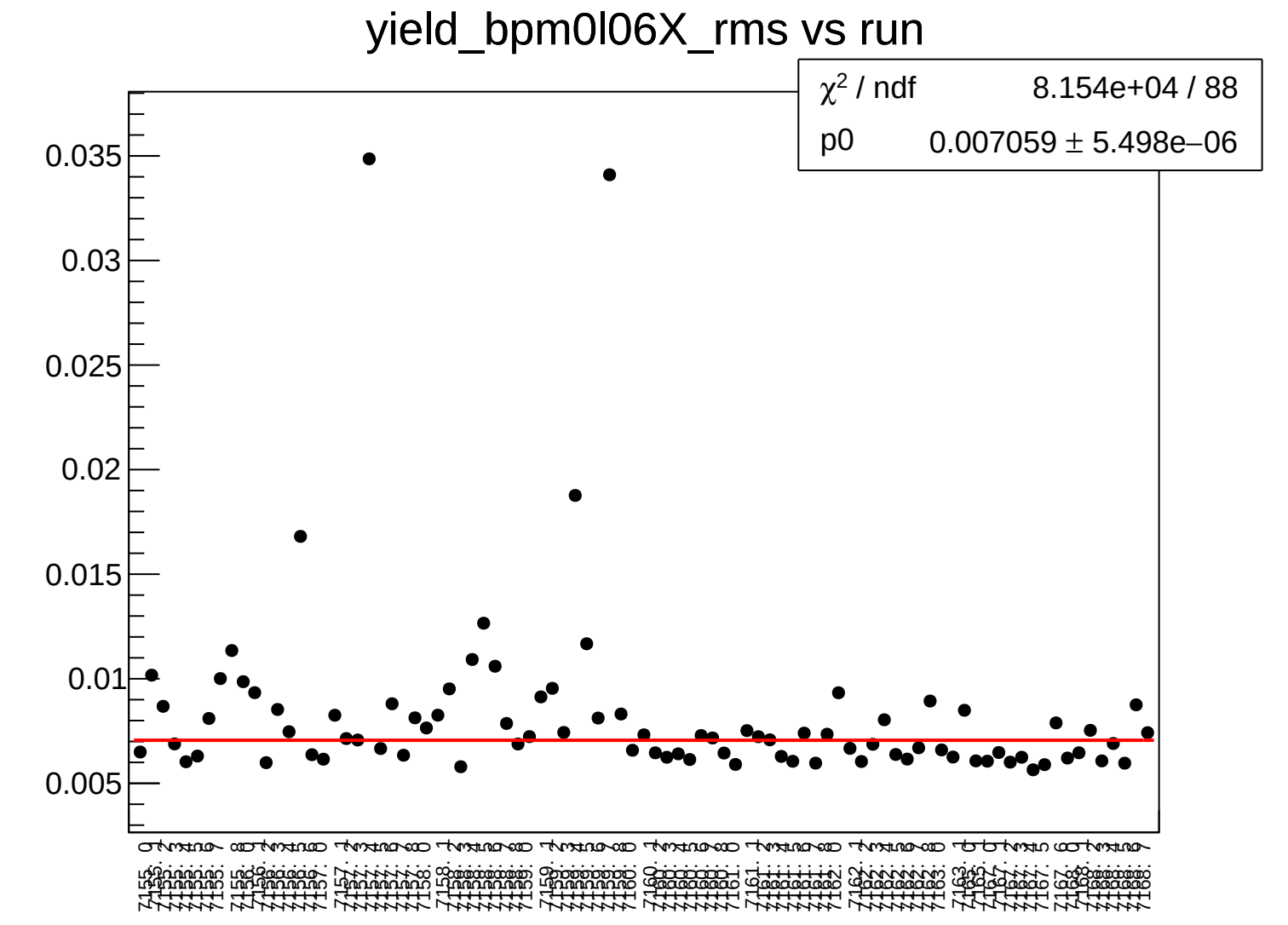

yield_bpm0l05Y_mean vs run
χ² / ndf 7.096e+06 / 88
p0 2.287 ± 5.454e−06
2.32
2.31
2.3
2.29
2.28
2.27
2.26
2.25
pull
Entries 89
Mean 302.3
Std Dev 0
600
400
200
0
−200
−400
−600

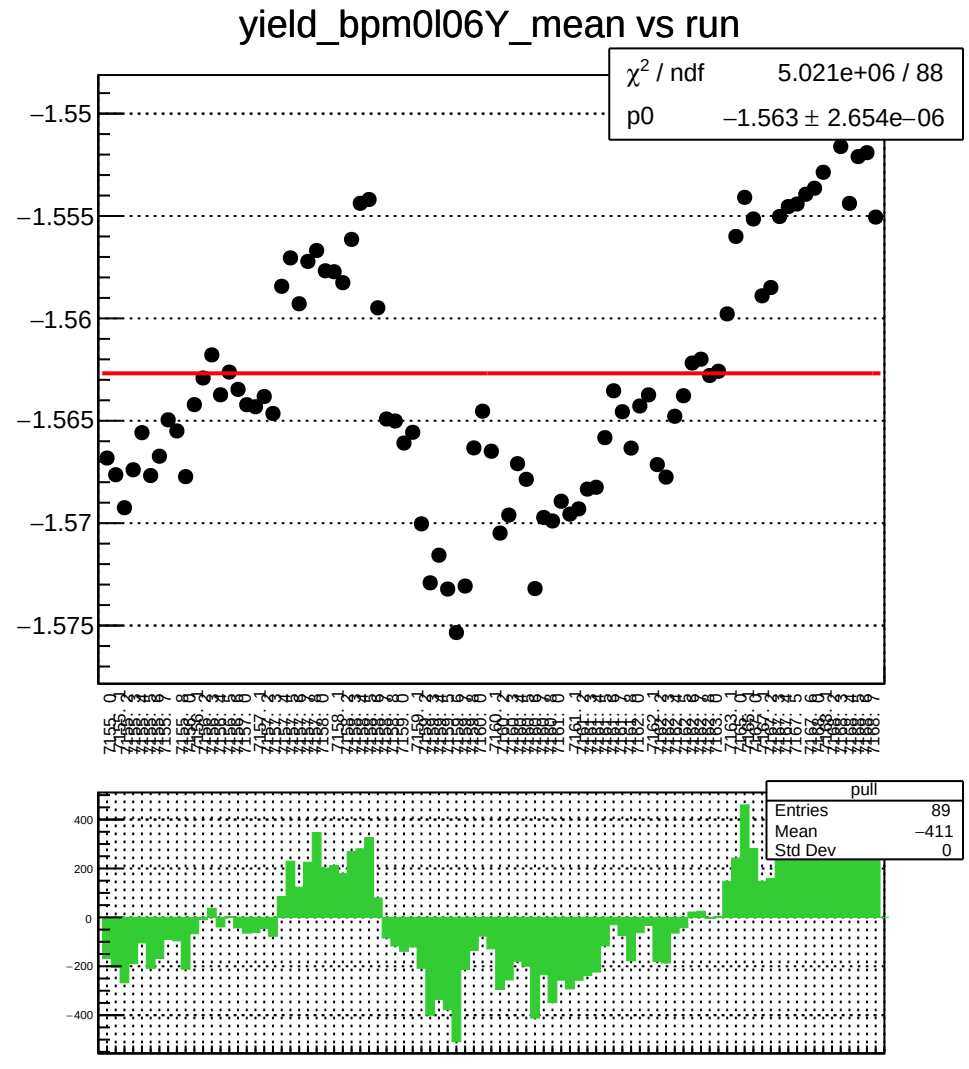

pull1D
Entries 89
Mean −2.051
Std Dev 4.944
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

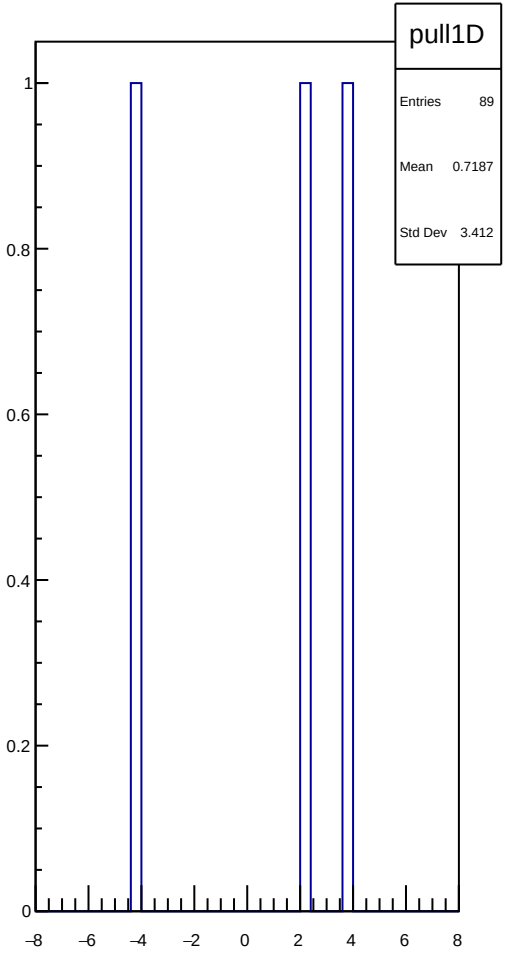

yield_bpm0l05Y_rms vs run
χ² / ndf 4.419e+04 / 88
p0 0.005008 ± 3.857e−06
0.008
0.007
0.006
0.005
0.004

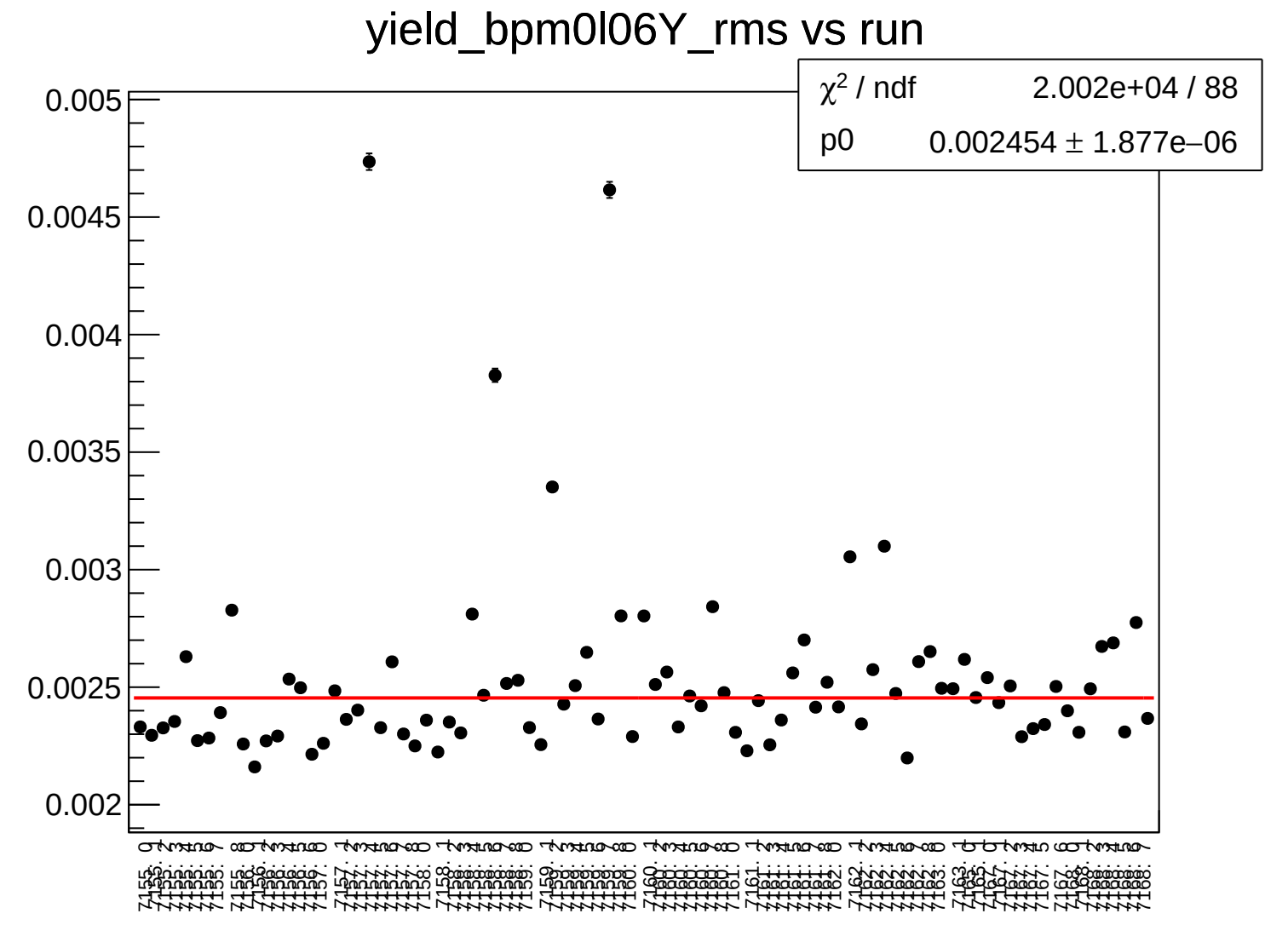

yield_bpm0l06X_mean vs run
χ² / ndf 1.701e+08 / 88
p0 2.6 ± 7.775e−06
2.7
2.65
2.6
2.55
2.5
2.45
2.4
pull
Entries 89
Mean −289.5
Std Dev 0
2000
1000
0
−1000
−2000
−3000

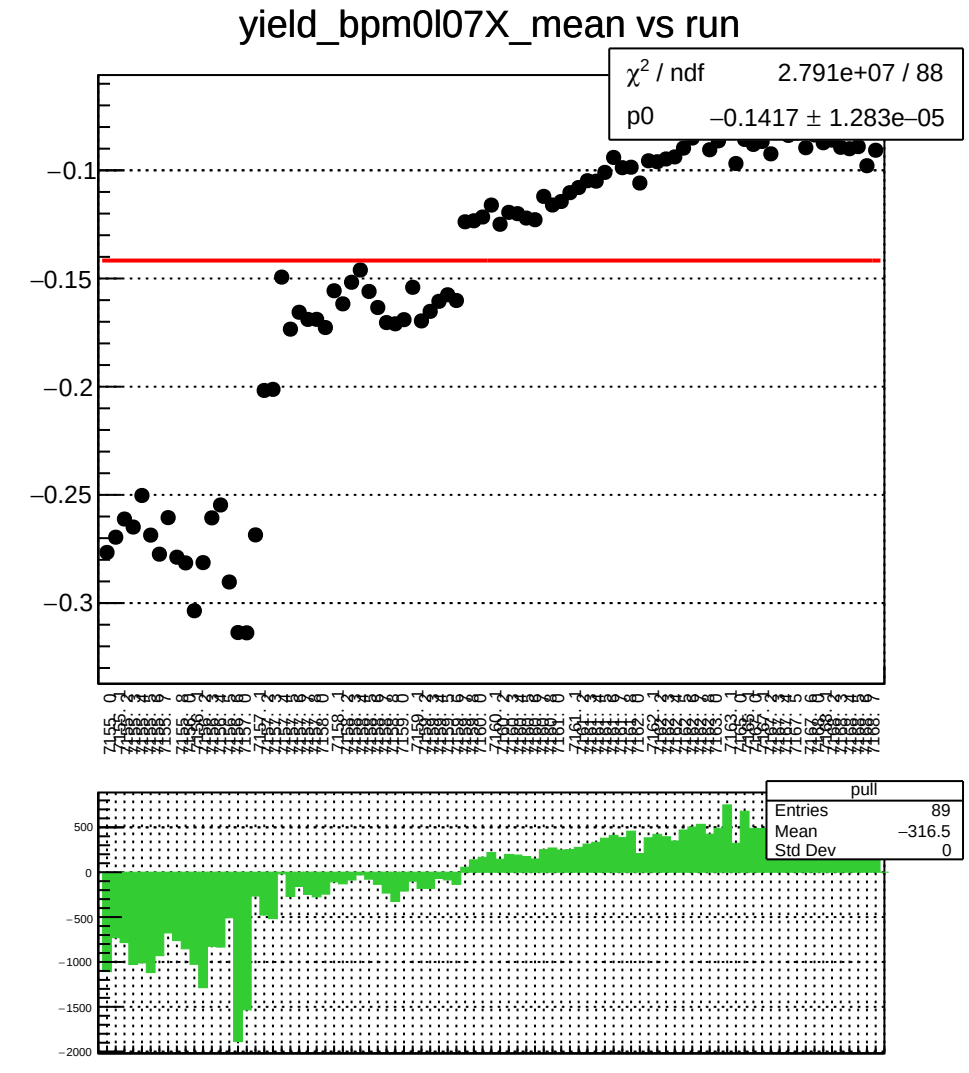

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

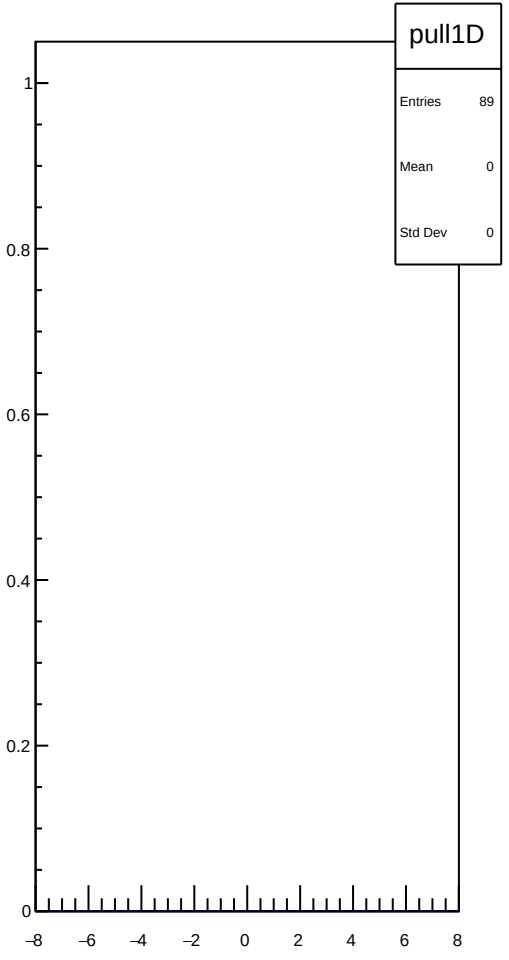

yield_bpm0l06X_rms vs run
χ² / ndf 8.154e+04 / 88
p0 0.007059 ± 5.498e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

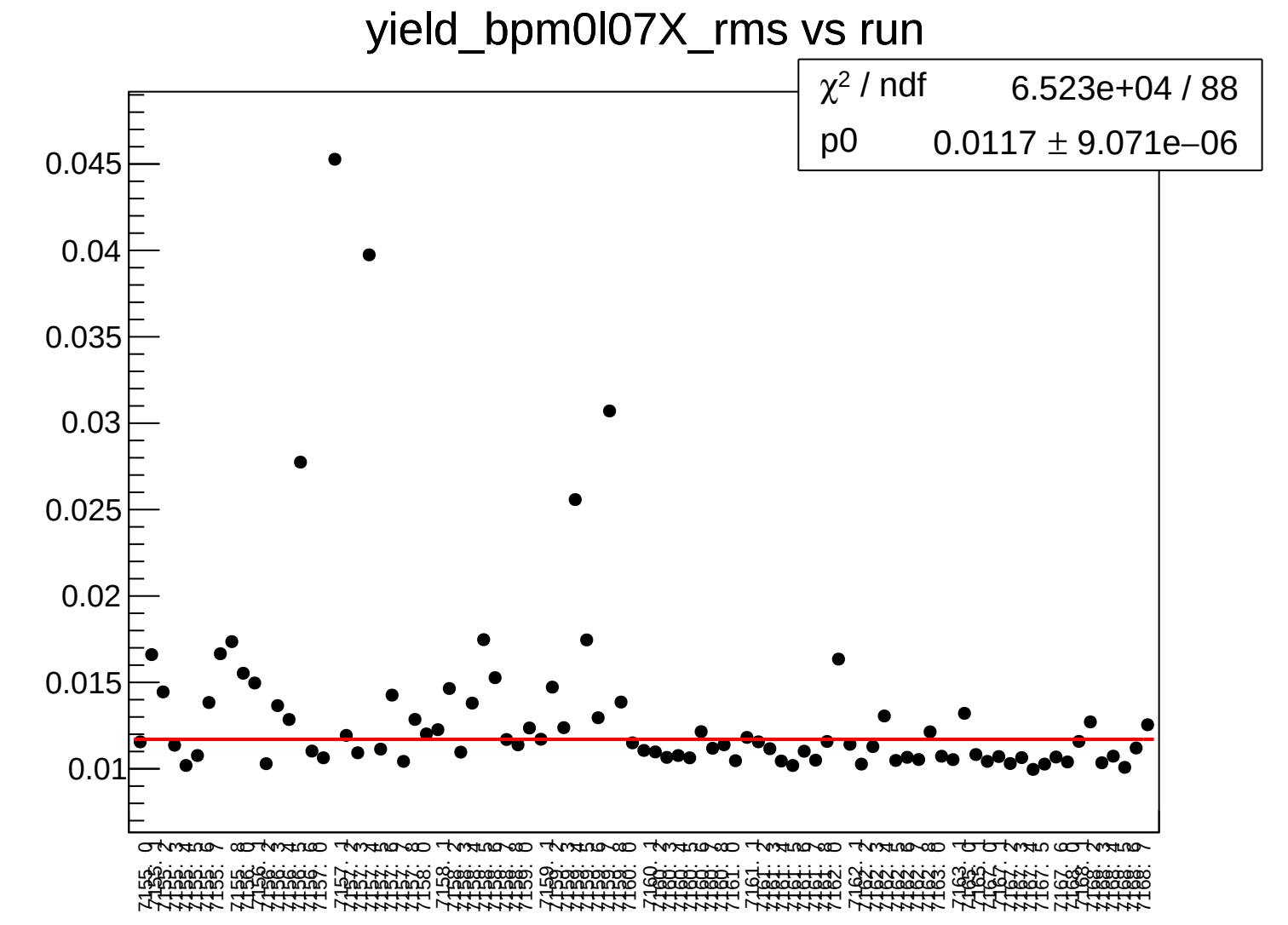

yield_bpm0l06Y_mean vs run
χ² / ndf 5.021e+06 / 88
p0 −1.563 ± 2.654e−06
−1.55
−1.555
−1.56
−1.565
−1.57
−1.575
pull
Entries 89
Mean −411
Std Dev 0
400
200
0
−200
−400

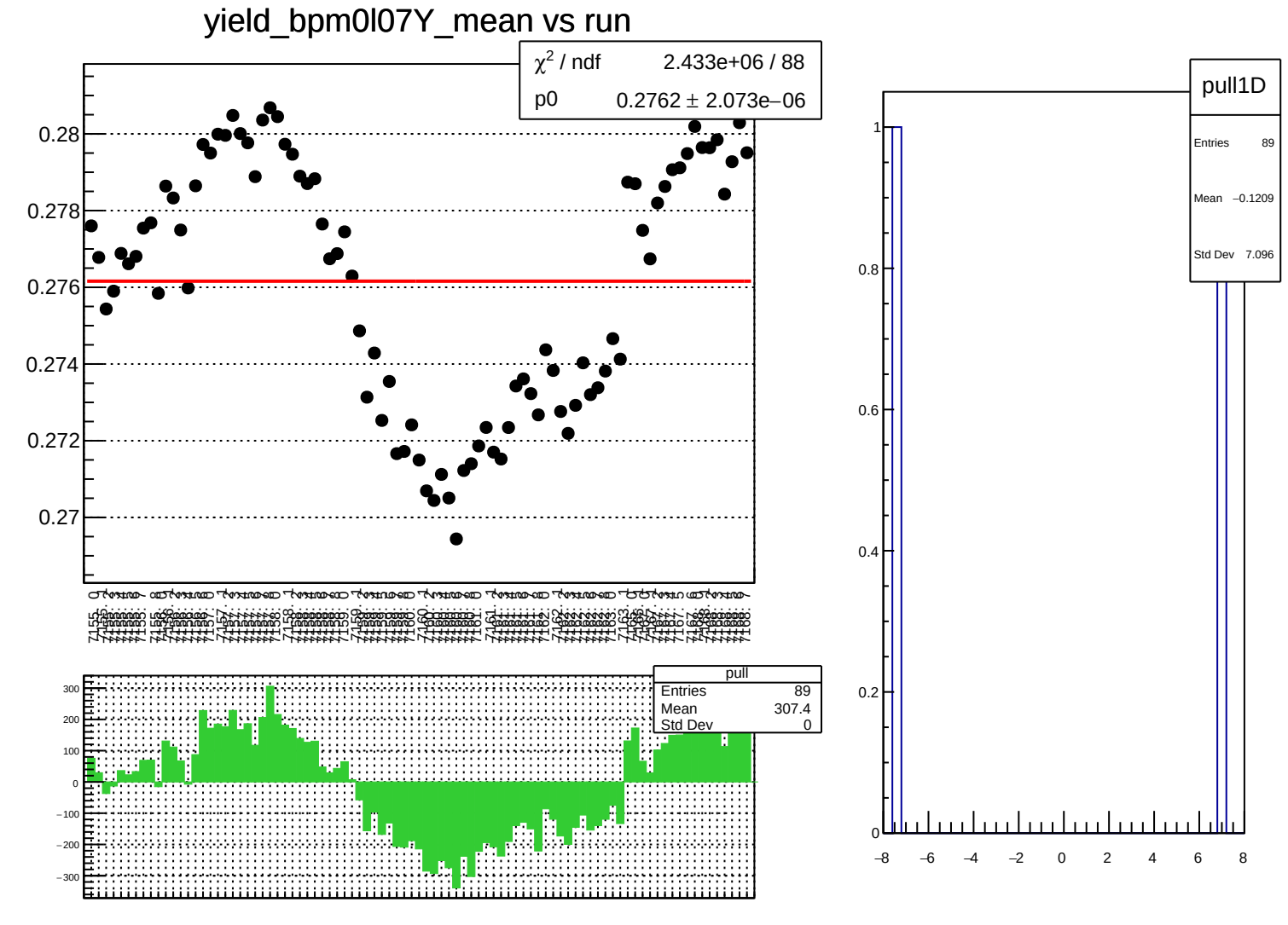

pull1D
Entries 89
Mean 0.7187
Std Dev 3.412
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

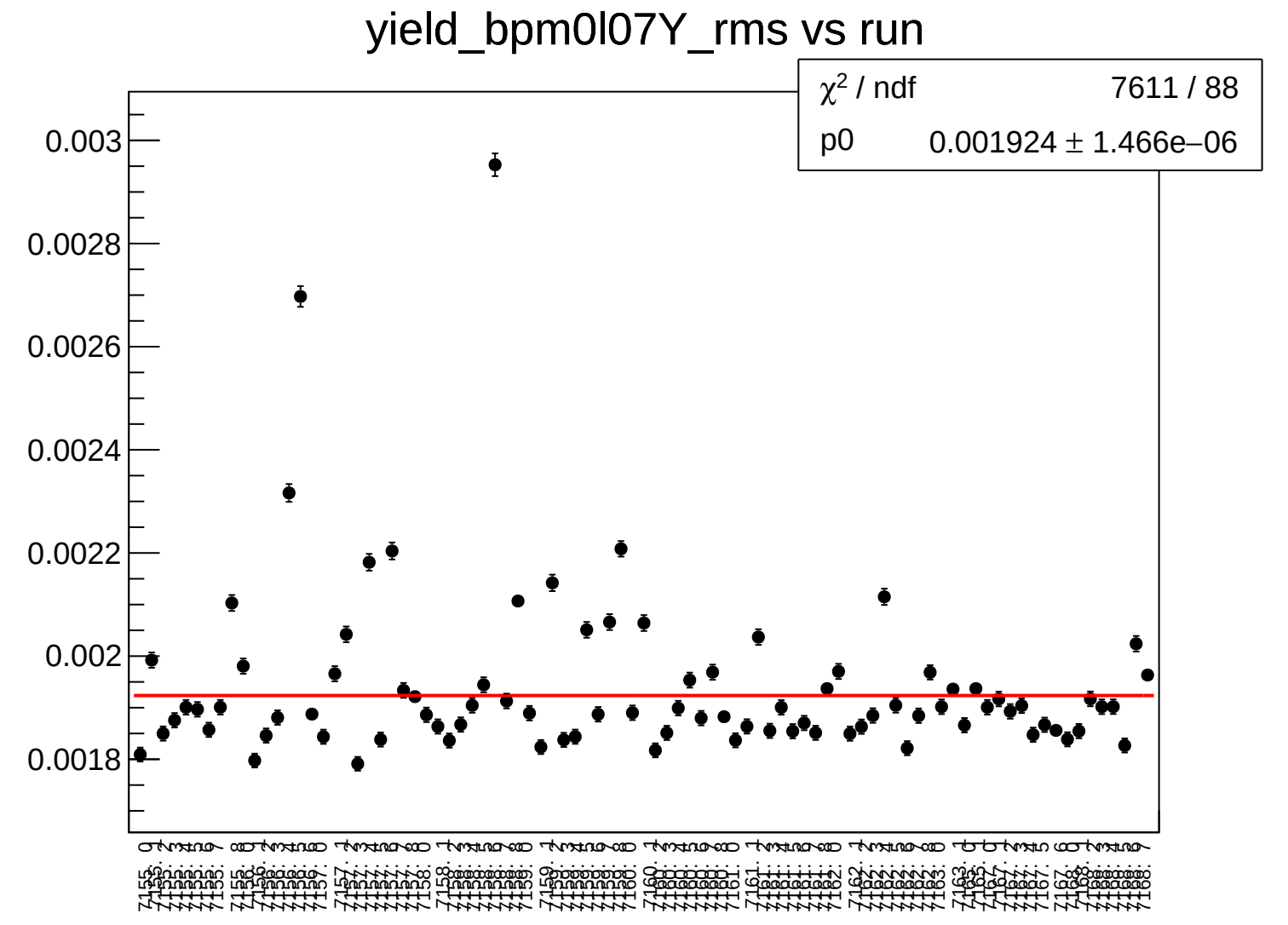

yield_bpm0l06Y_rms vs run
χ² / ndf 2.002e+04 / 88
p0 0.002454 ± 1.877e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

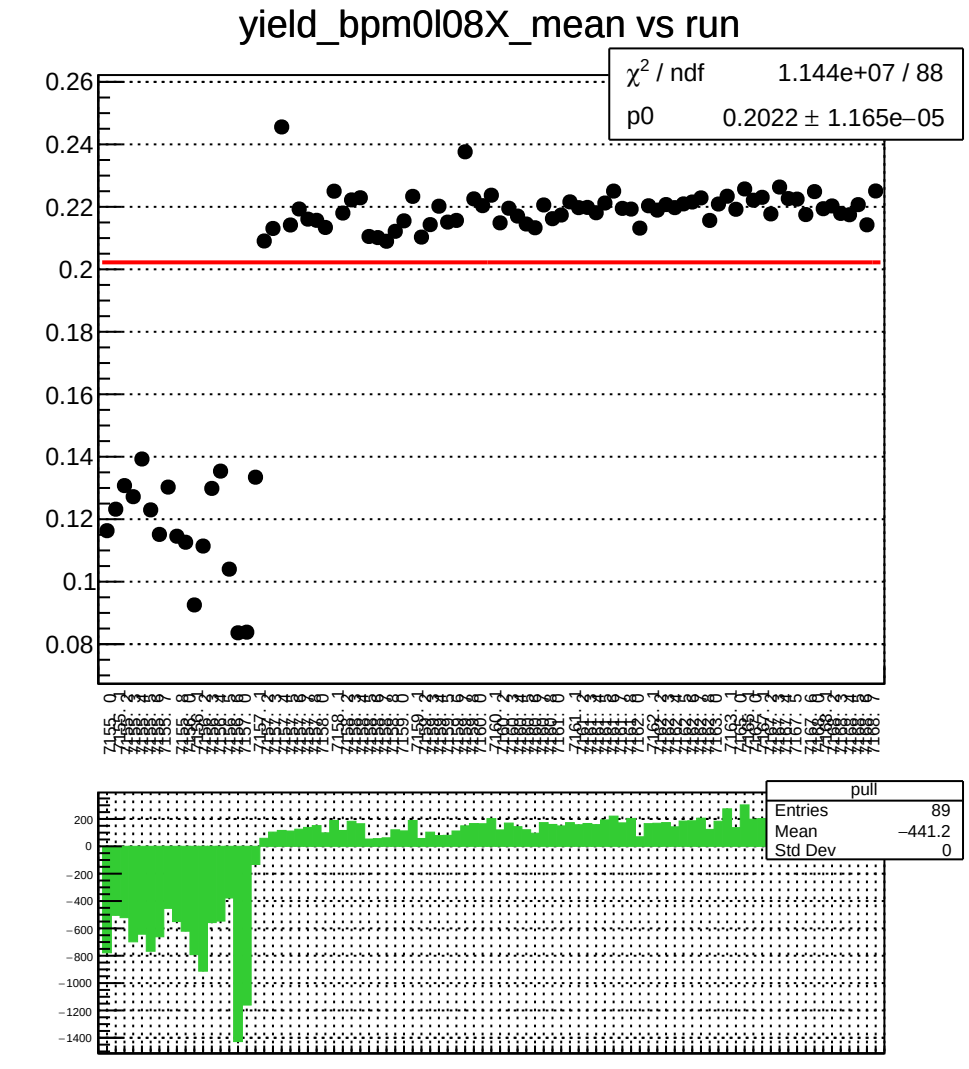

yield_bpm0l07X_mean vs run
χ² / ndf 2.791e+07 / 88
p0 −0.1417 ± 1.283e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 89
Mean −316.5
Std Dev 0
500
0
−500
−1000
−1500
−2000

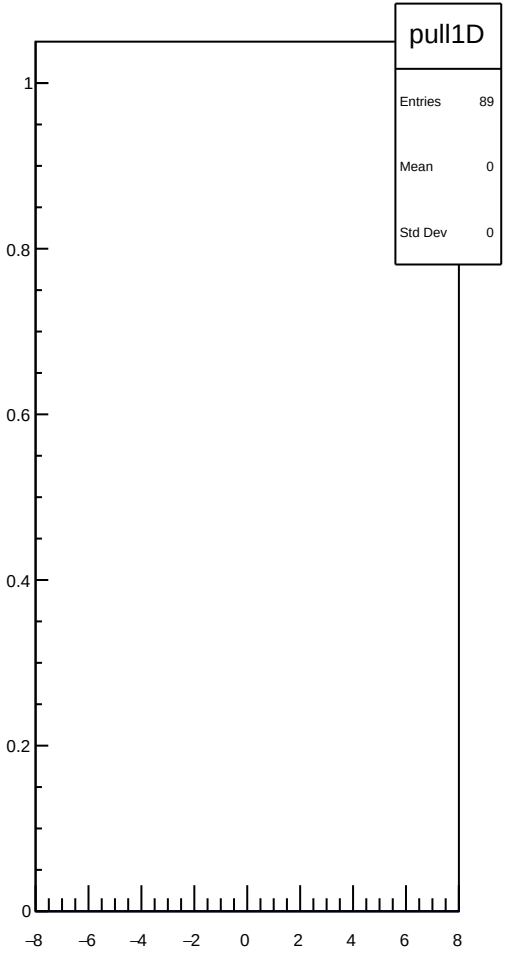

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

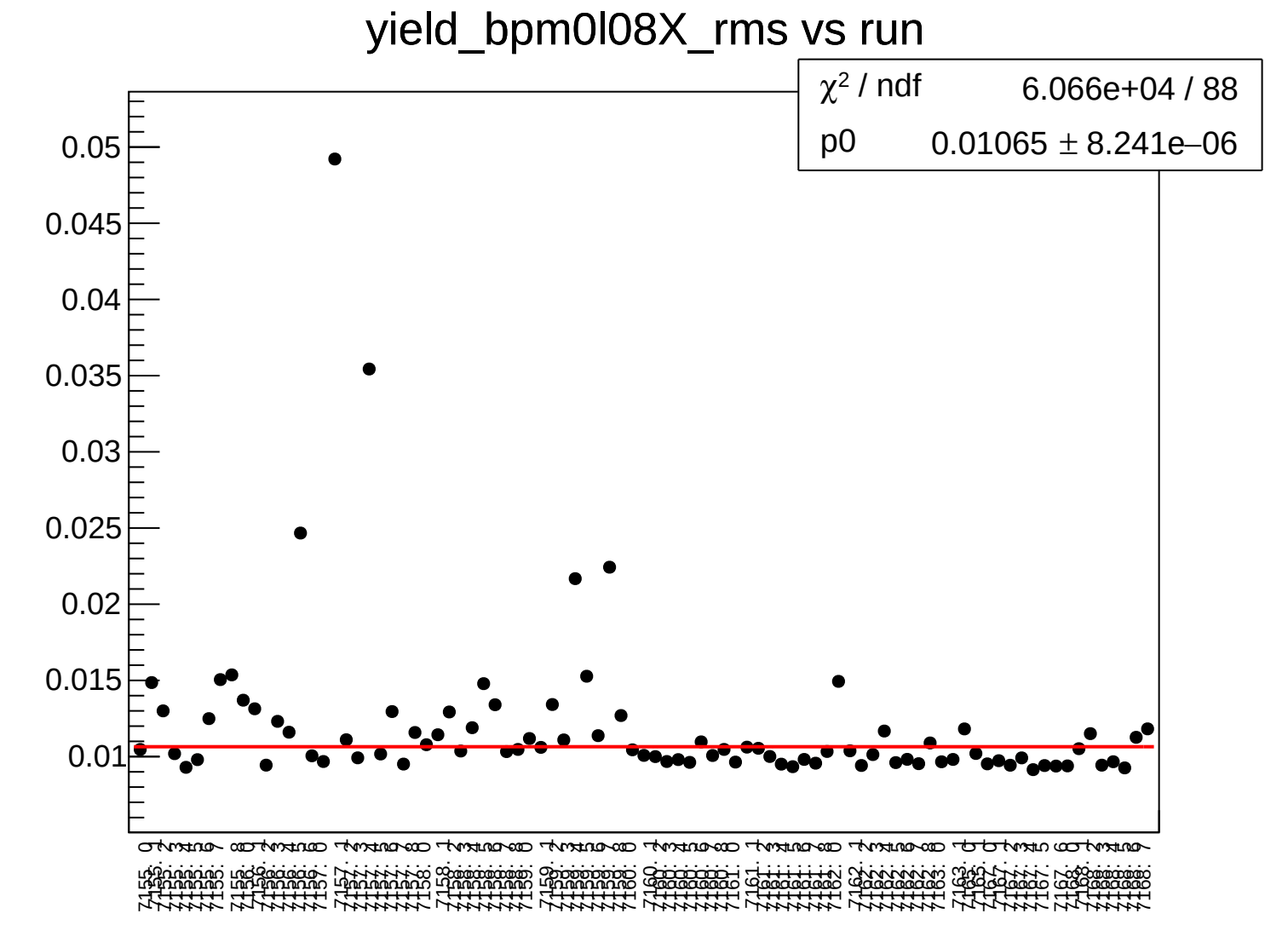

yield_bpm0l07X_rms vs run
χ² / ndf 6.523e+04 / 88
p0 0.0117 ± 9.071e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

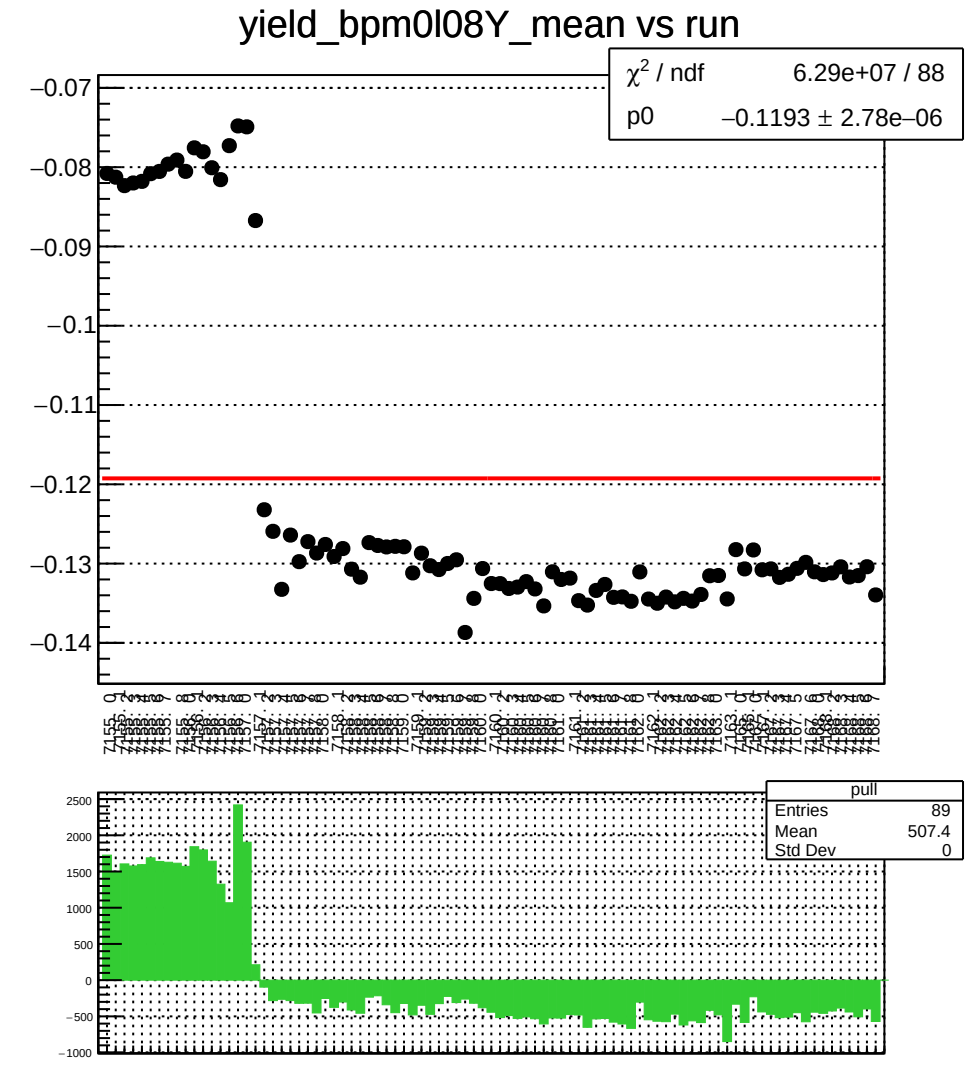

yield_bpm0l07Y_mean vs run
χ² / ndf 2.433e+06 / 88
p0 0.2762 ± 2.073e−06
0.28
0.278
0.276
0.274
0.272
0.27
pull
Entries 89
Mean 307.4
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 89
Mean −0.1209
Std Dev 7.096
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

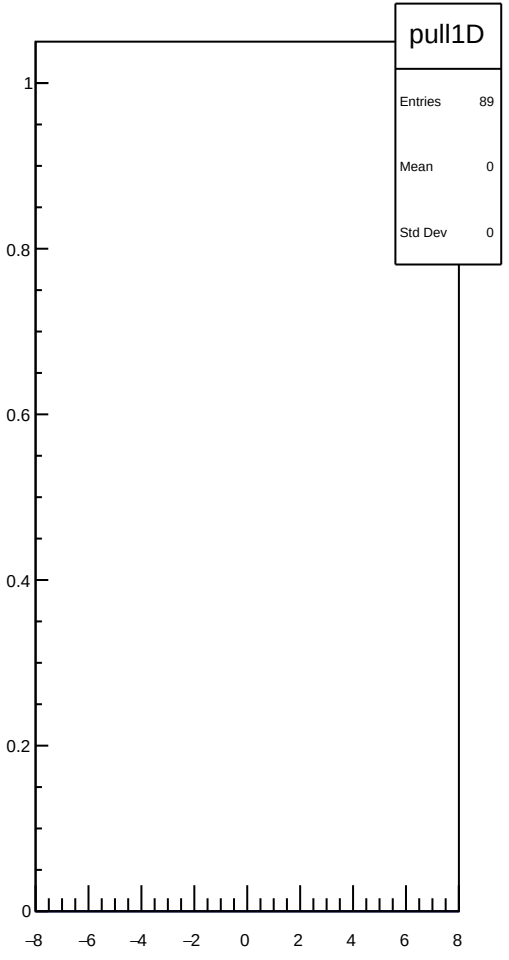

yield_bpm0l07Y_rms vs run
χ² / ndf 7611 / 88
p0 0.001924 ± 1.466e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

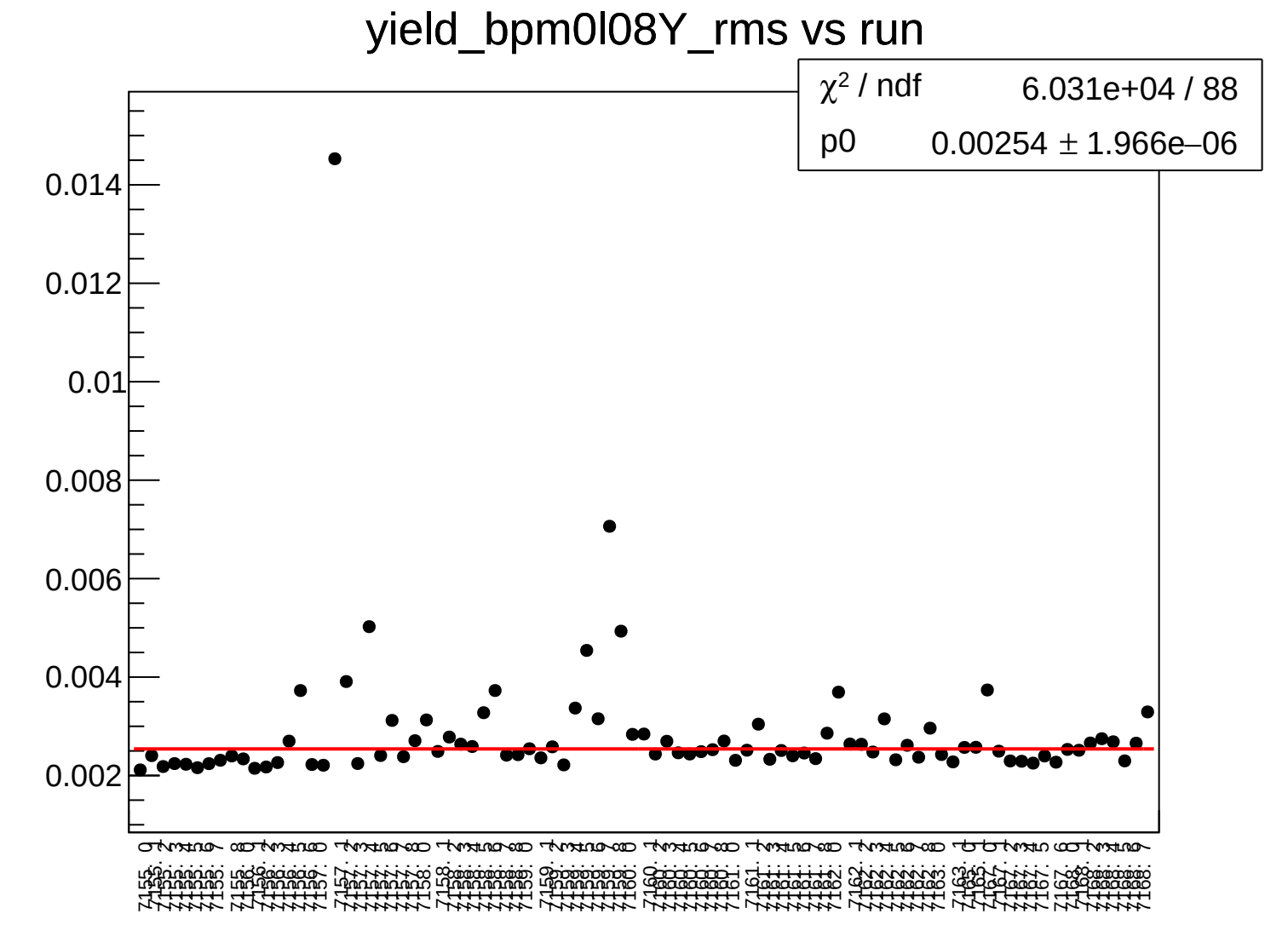

yield_bpm0l08X_mean vs run
χ² / ndf 1.144e+07 / 88
p0 0.2022 ± 1.165e−05
pull
Entries 89
Mean −441.2
Std Dev 0

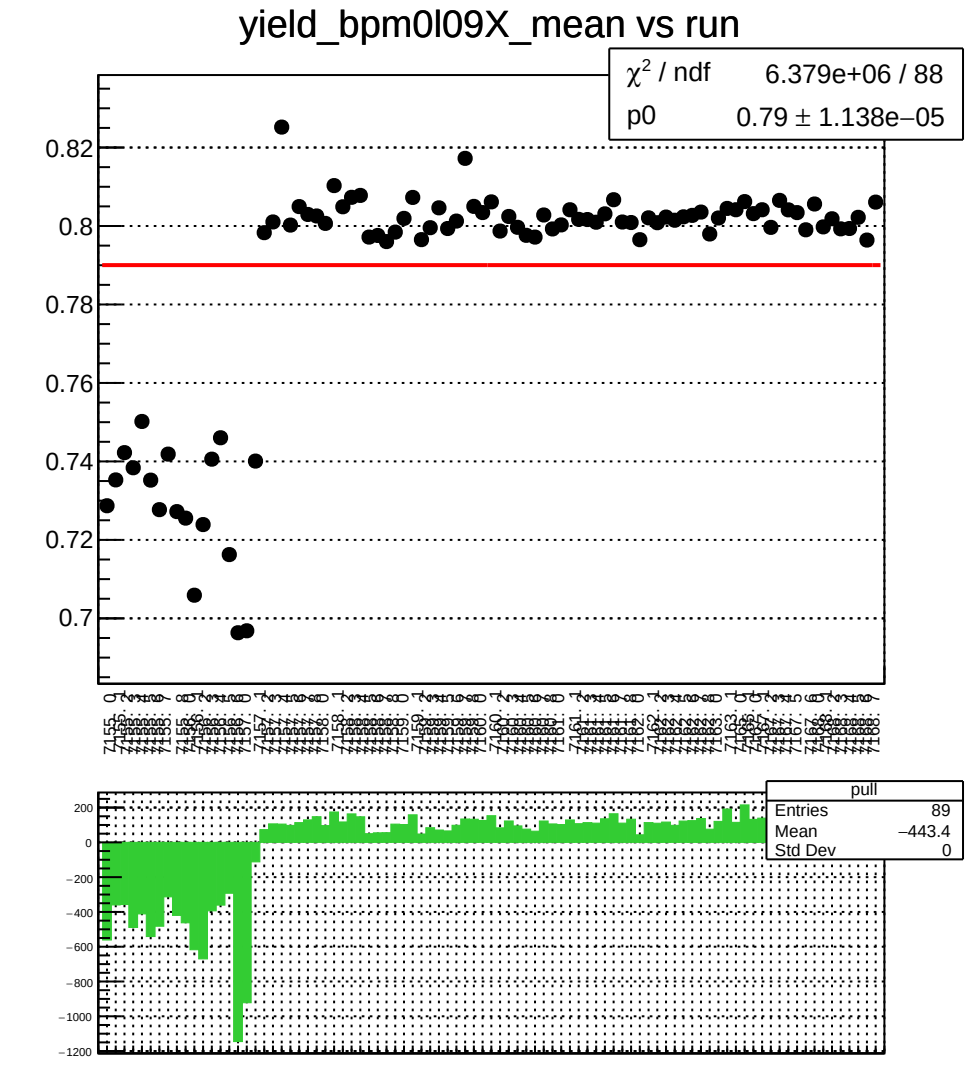

pull1D
Entries 89
Mean 0
Std Dev 0

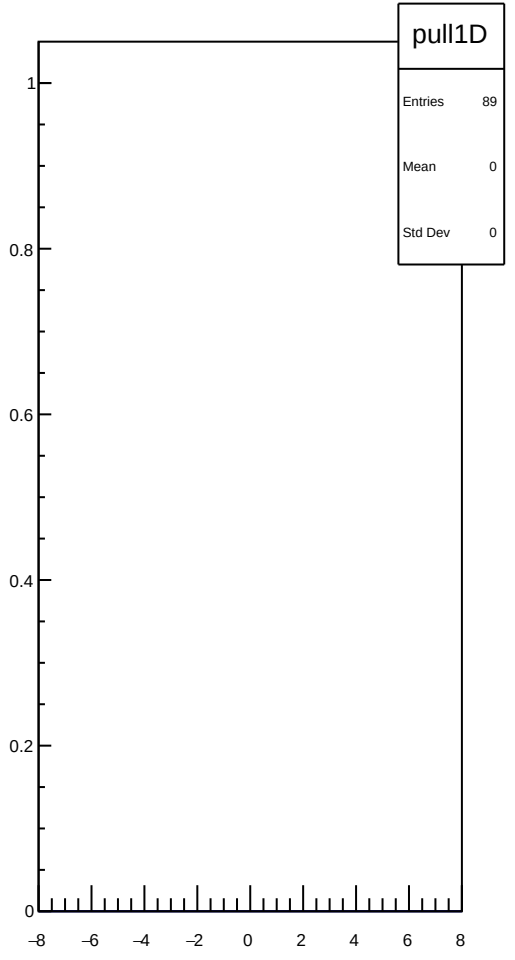

yield_bpm0l08X_rms vs run
χ² / ndf 6.066e+04 / 88
p0 0.01065 ± 8.241e–06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

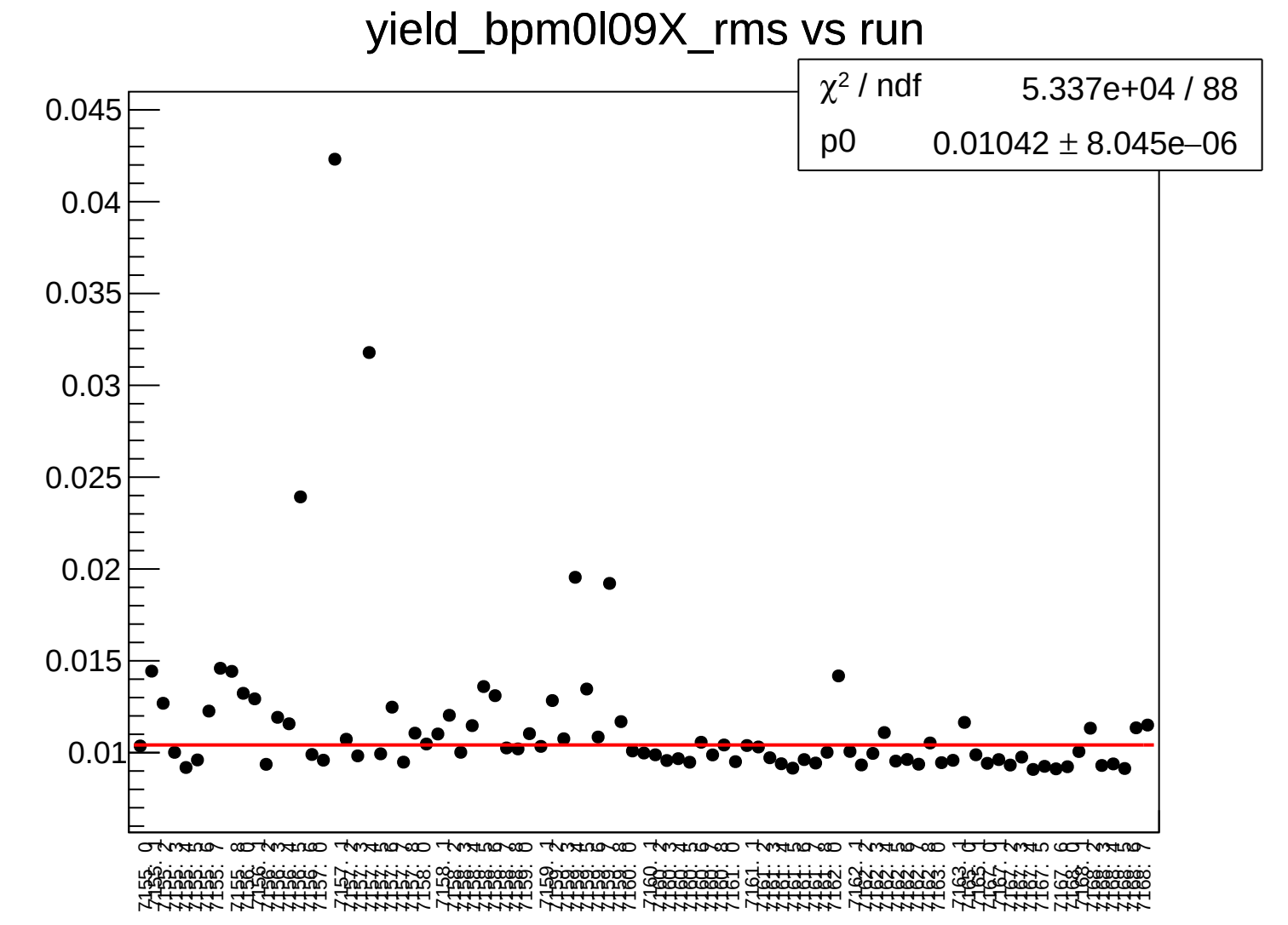

yield_bpm0l08Y_mean vs run
χ² / ndf 6.29e+07 / 88
p0 −0.1193 ± 2.78e−06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
−0.14
pull
Entries 89
Mean 507.4
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

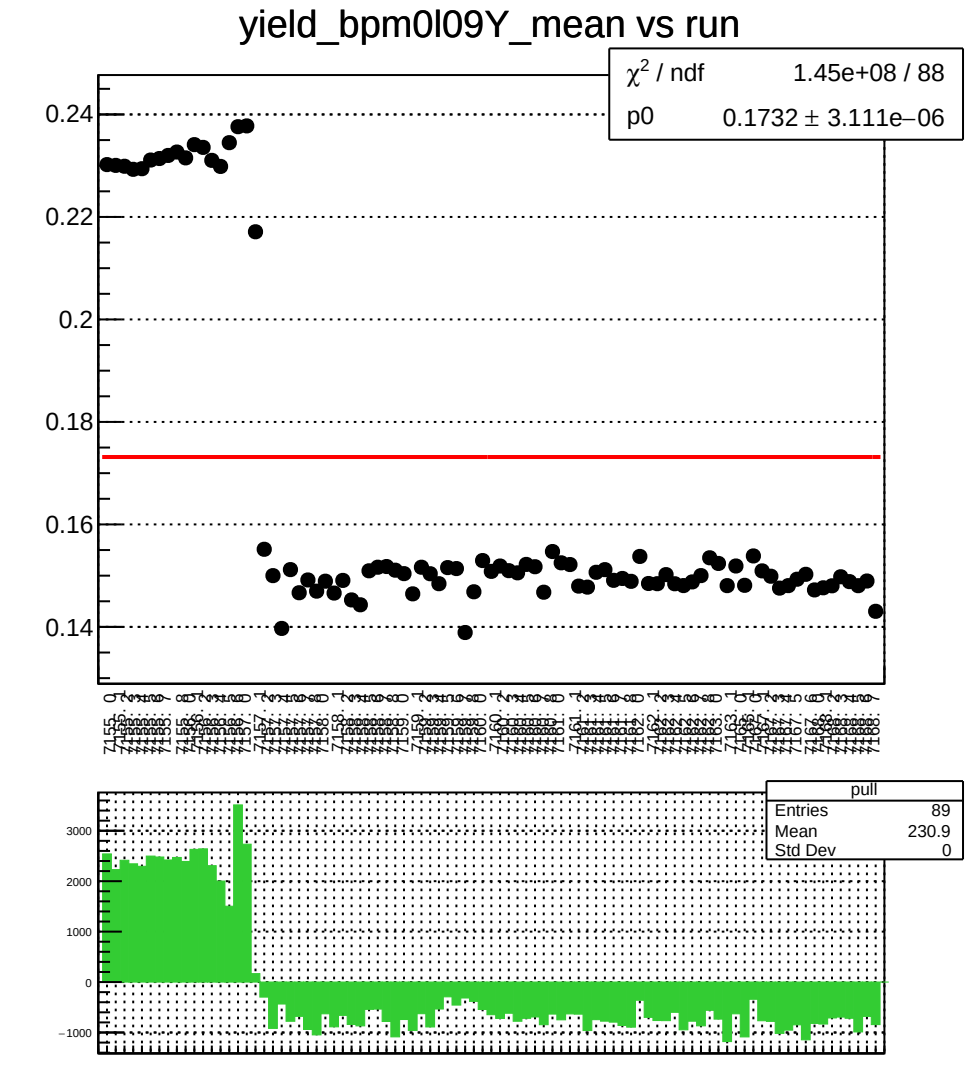

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

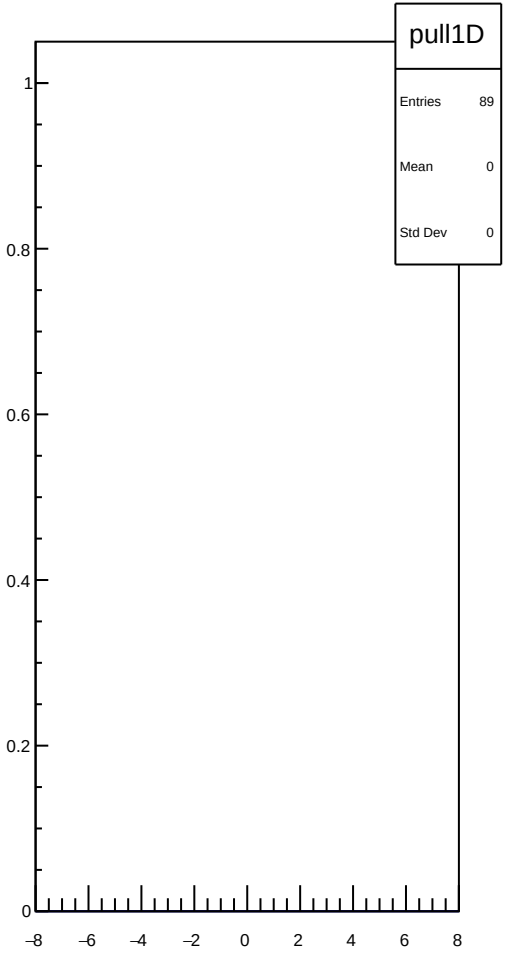

yield_bpm0l08Y_rms vs run
χ² / ndf 6.031e+04 / 88
p0 0.00254 ± 1.966e–06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

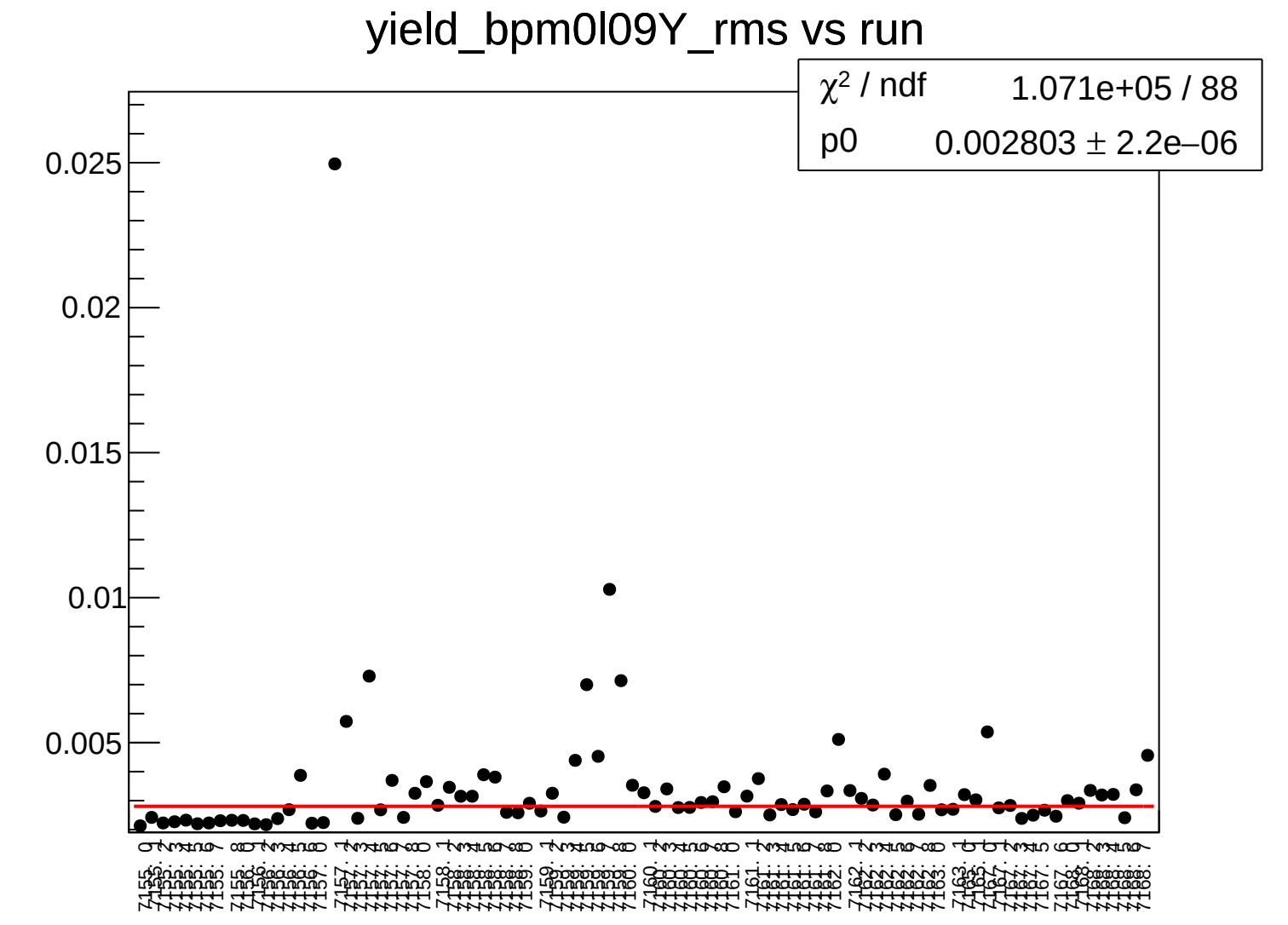

yield_bpm0l09X_mean vs run
χ² / ndf 6.379e+06 / 88
p0 0.79 ± 1.138e−05
0.82
0.8
0.78
0.76
0.74
0.72
0.7
pull
Entries 89
Mean −443.4
Std Dev 0
200
0
−200
−400
−600
−800
−1000
−1200

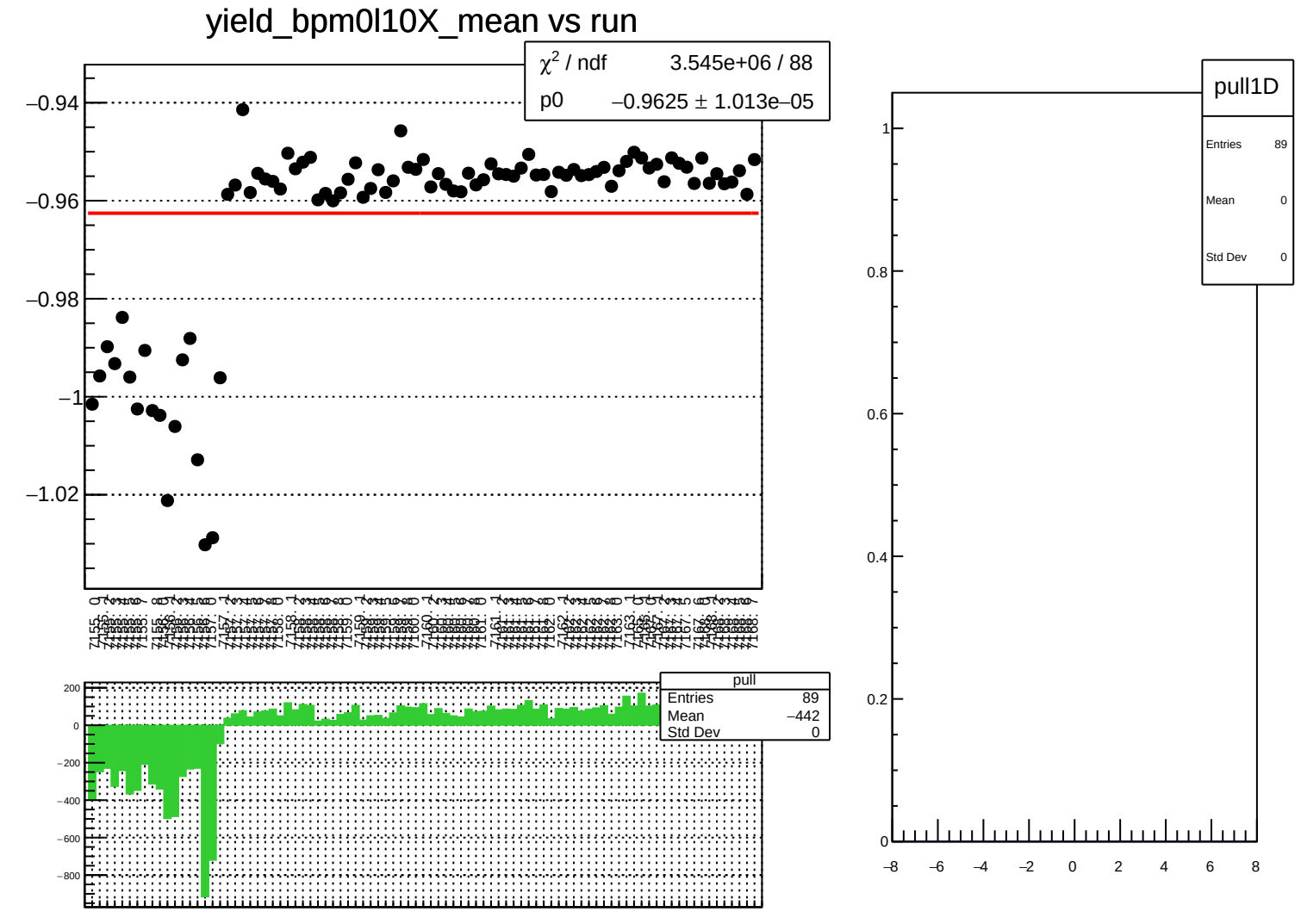

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

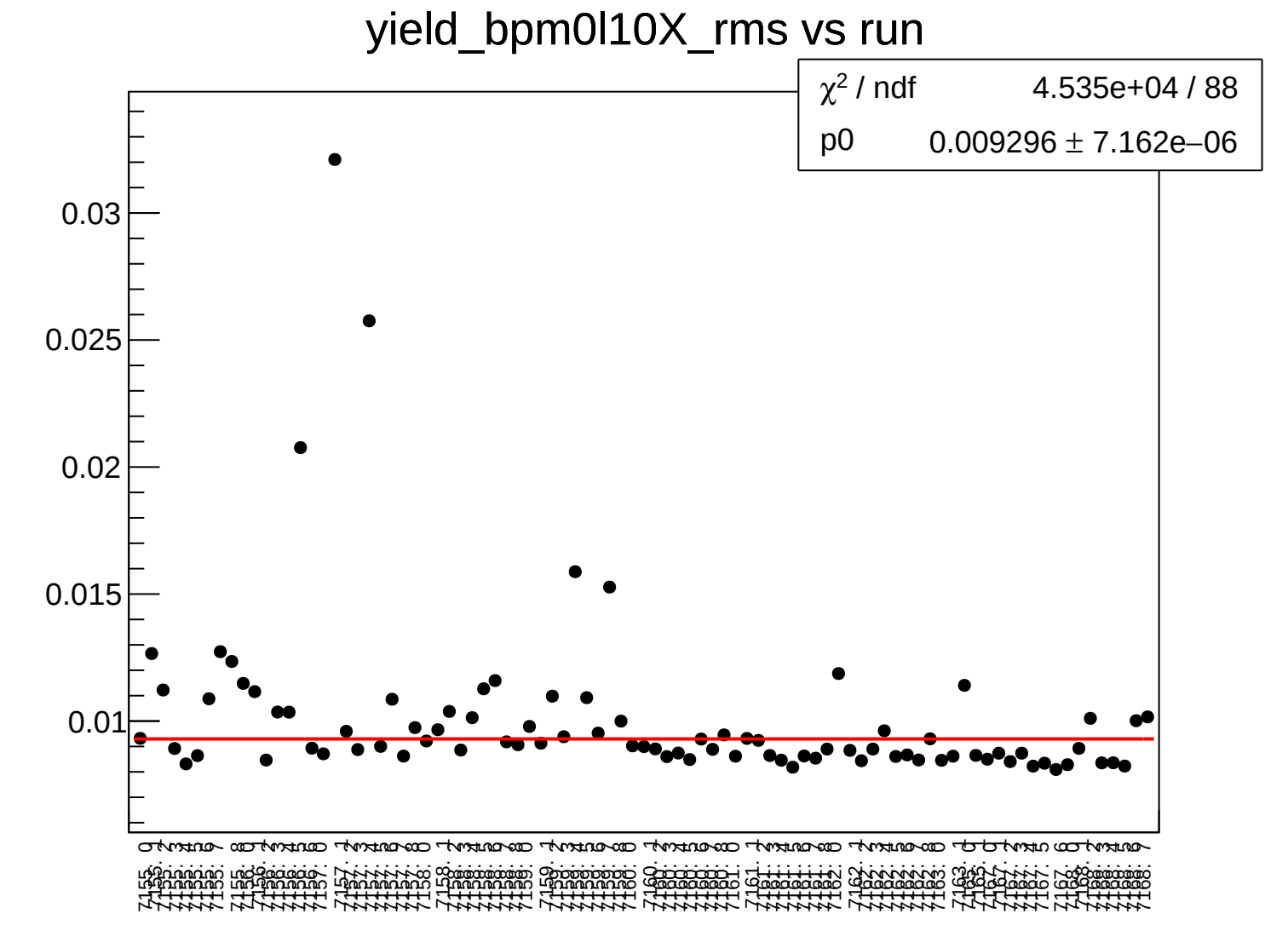

yield_bpm0l09X_rms vs run
χ² / ndf 5.337e+04 / 88
p0 0.01042 ± 8.045e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

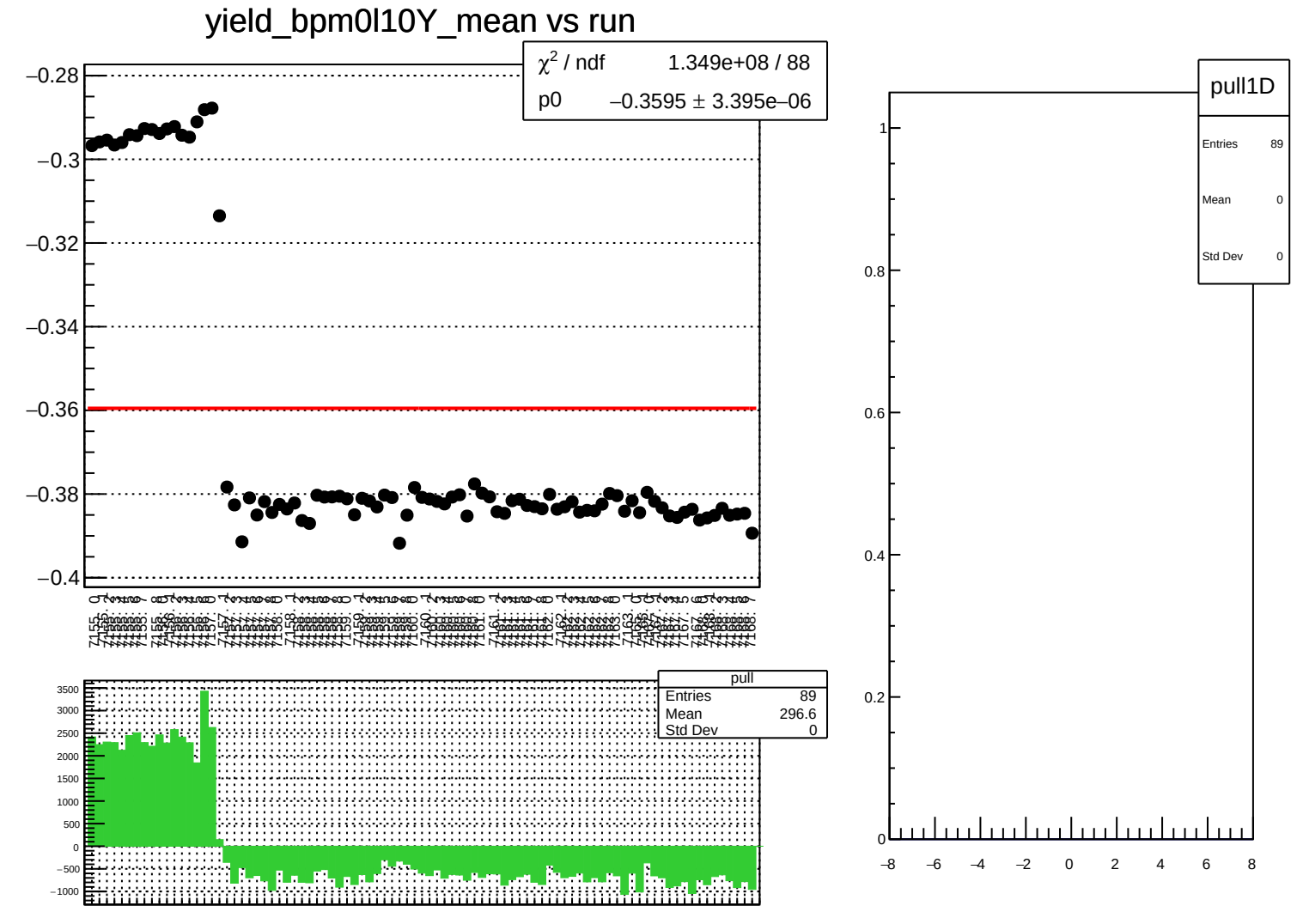

yield_bpm0l09Y_mean vs run
χ² / ndf 1.45e+08 / 88
p0 0.1732 ± 3.111e−06
0.24
0.22
0.2
0.18
0.16
0.14
pull
Entries 89
Mean 230.9
Std Dev 0
3000
2000
1000
0
−1000

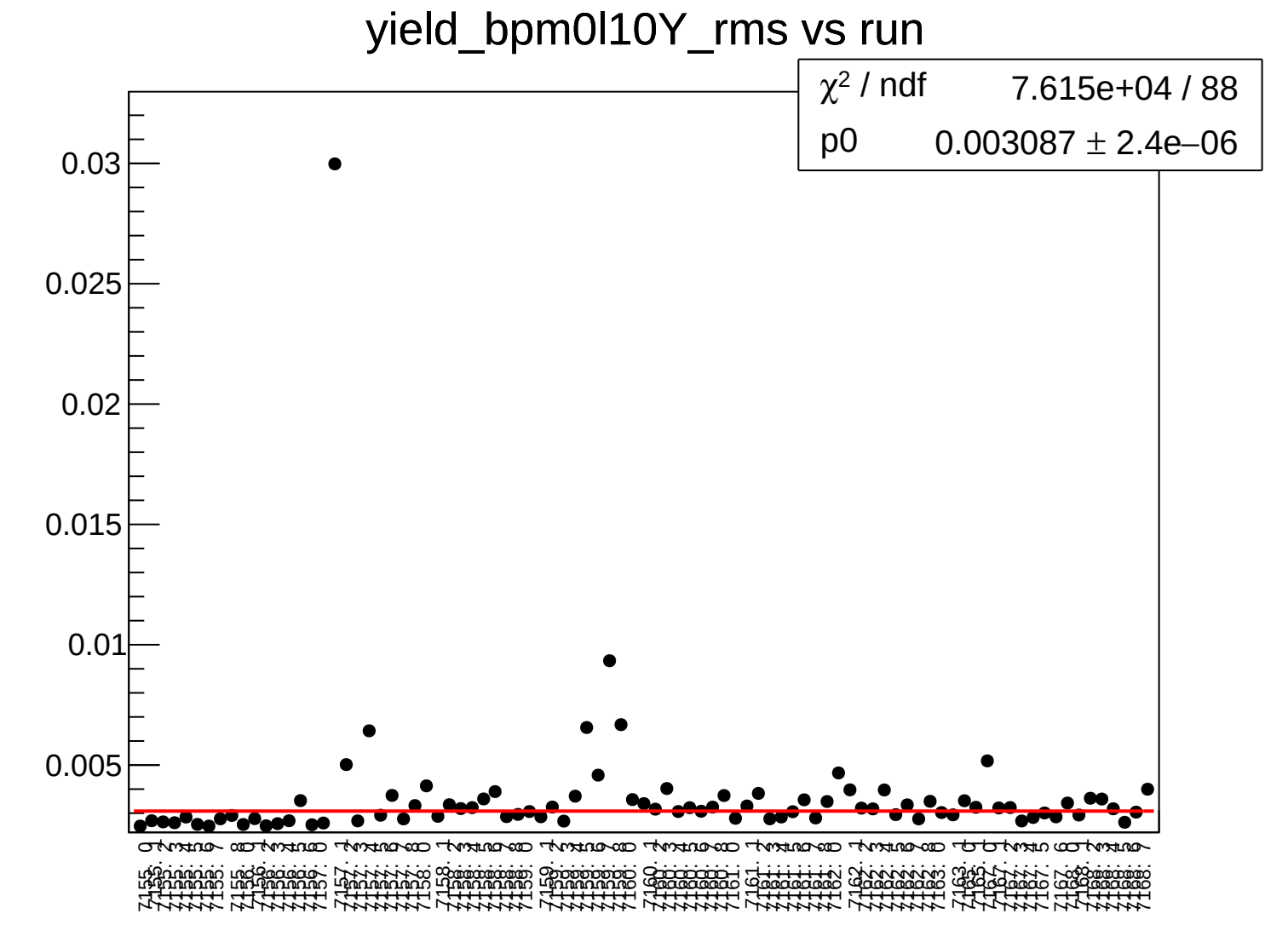

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

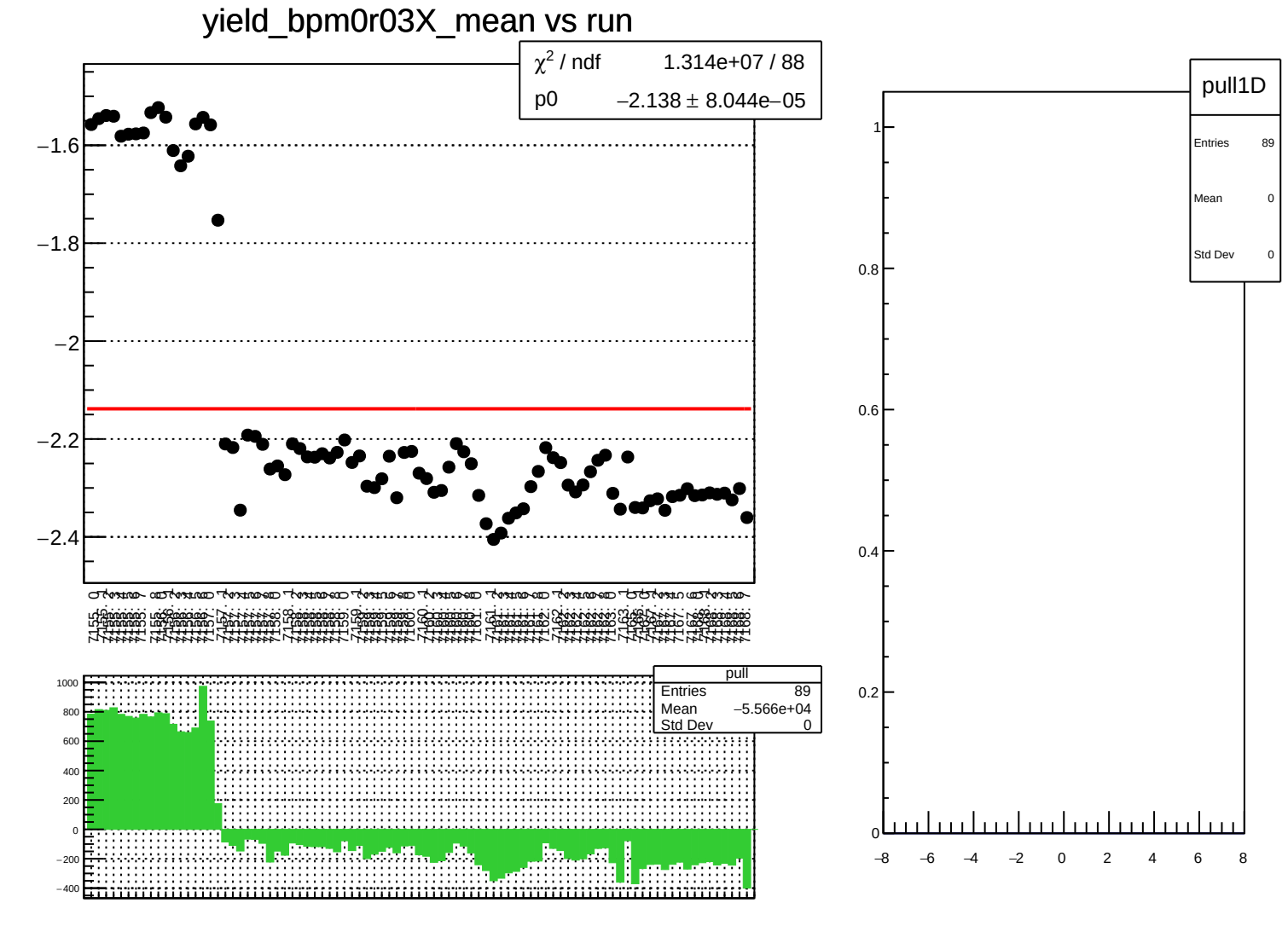

yield_bpm0l09Y_rms vs run
χ² / ndf 1.071e+05 / 88
p0 0.002803 ± 2.2e−06
0.025
0.02
0.015
0.01
0.005

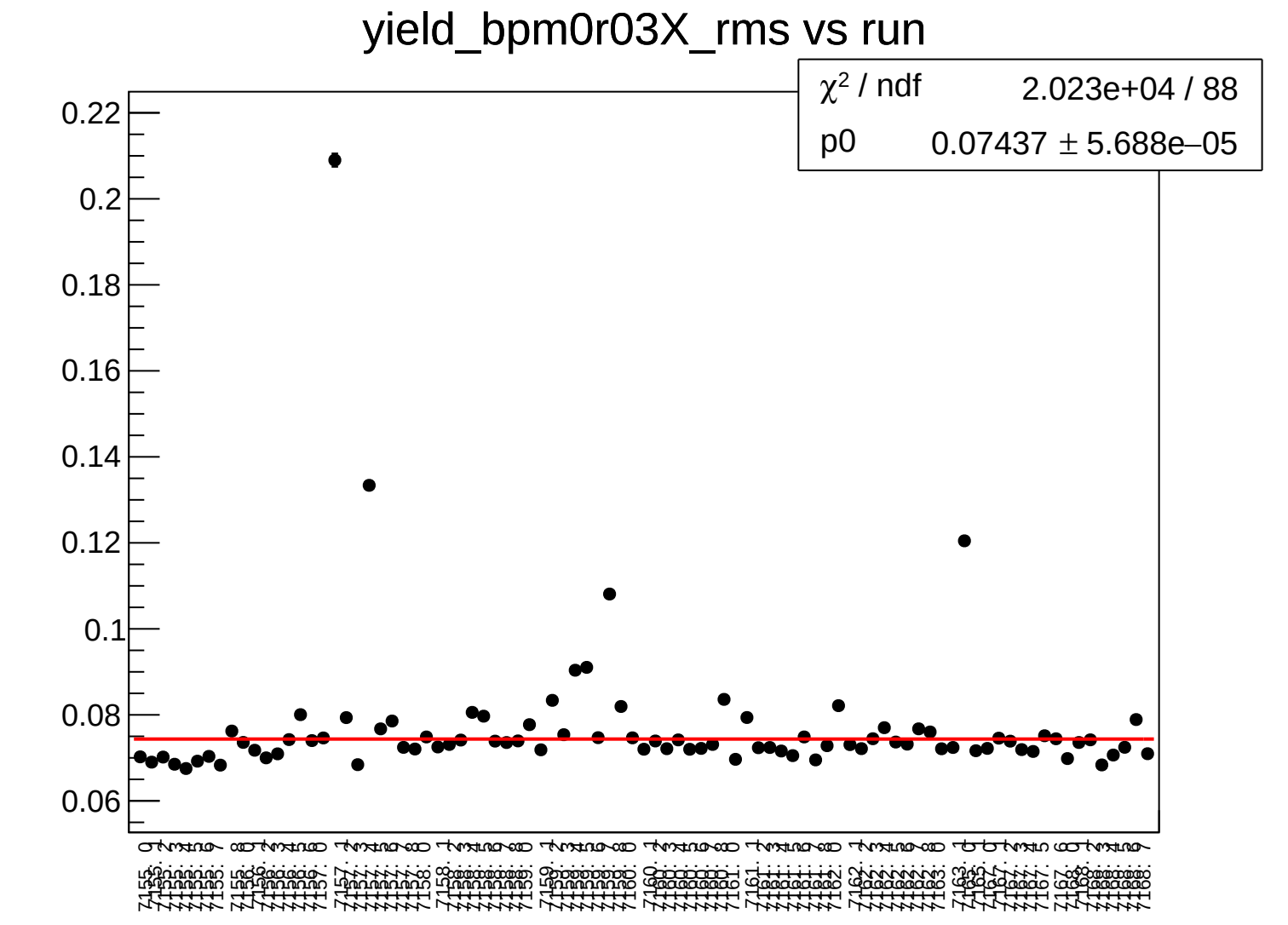

yield_bpm0l10X_mean vs run
χ² / ndf 3.545e+06 / 88
p0 −0.9625 ± 1.013e−05
−0.94
−0.96
−0.98
−1
−1.02
pull
Entries 89
Mean −442
Std Dev 0
200
0
−200
−400
−600
−800
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

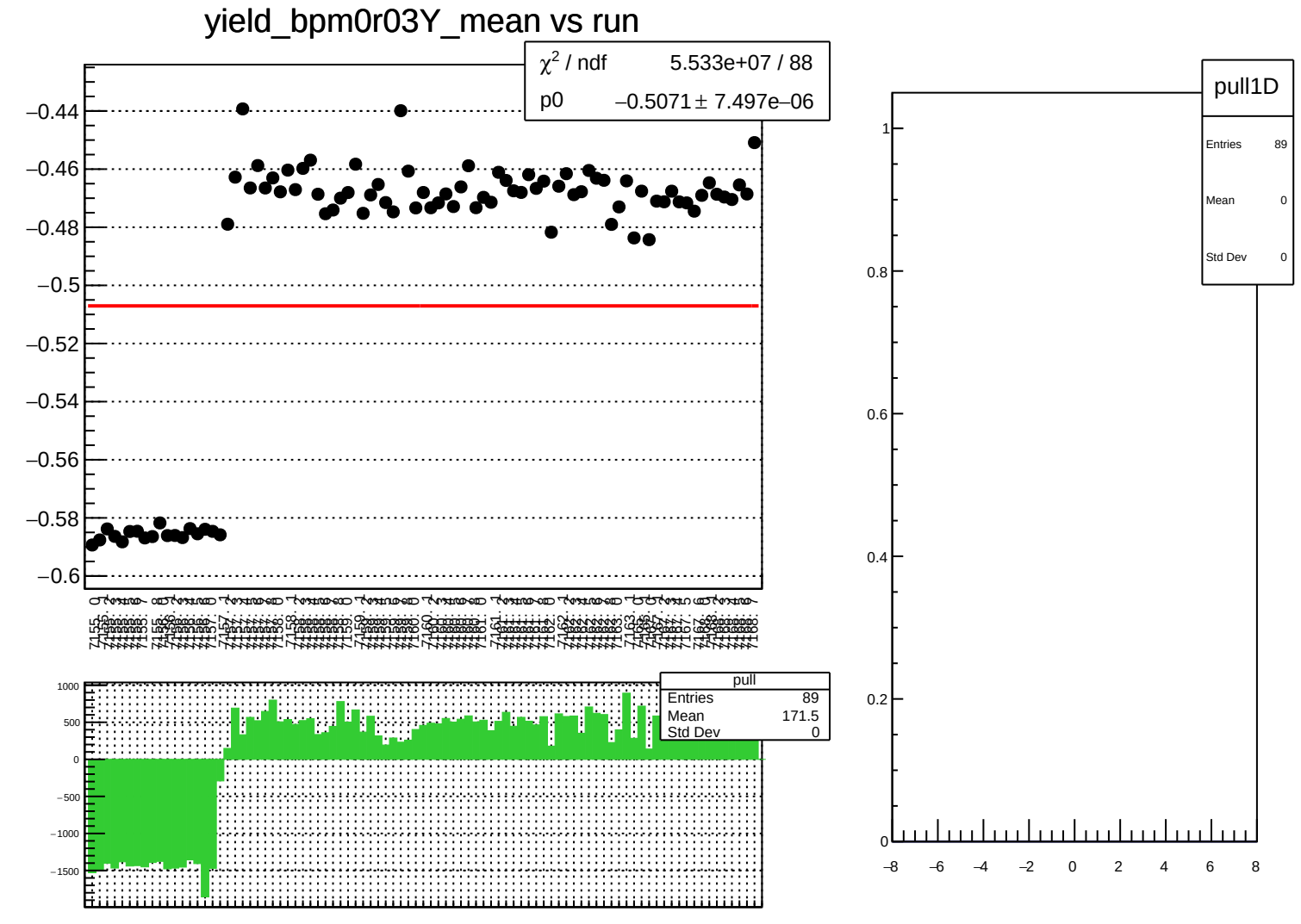

yield_bpm0l10X_rms vs run
χ² / ndf 4.535e+04 / 88
p0 0.009296 ± 7.162e−06
0.03
0.025
0.02
0.015
0.01

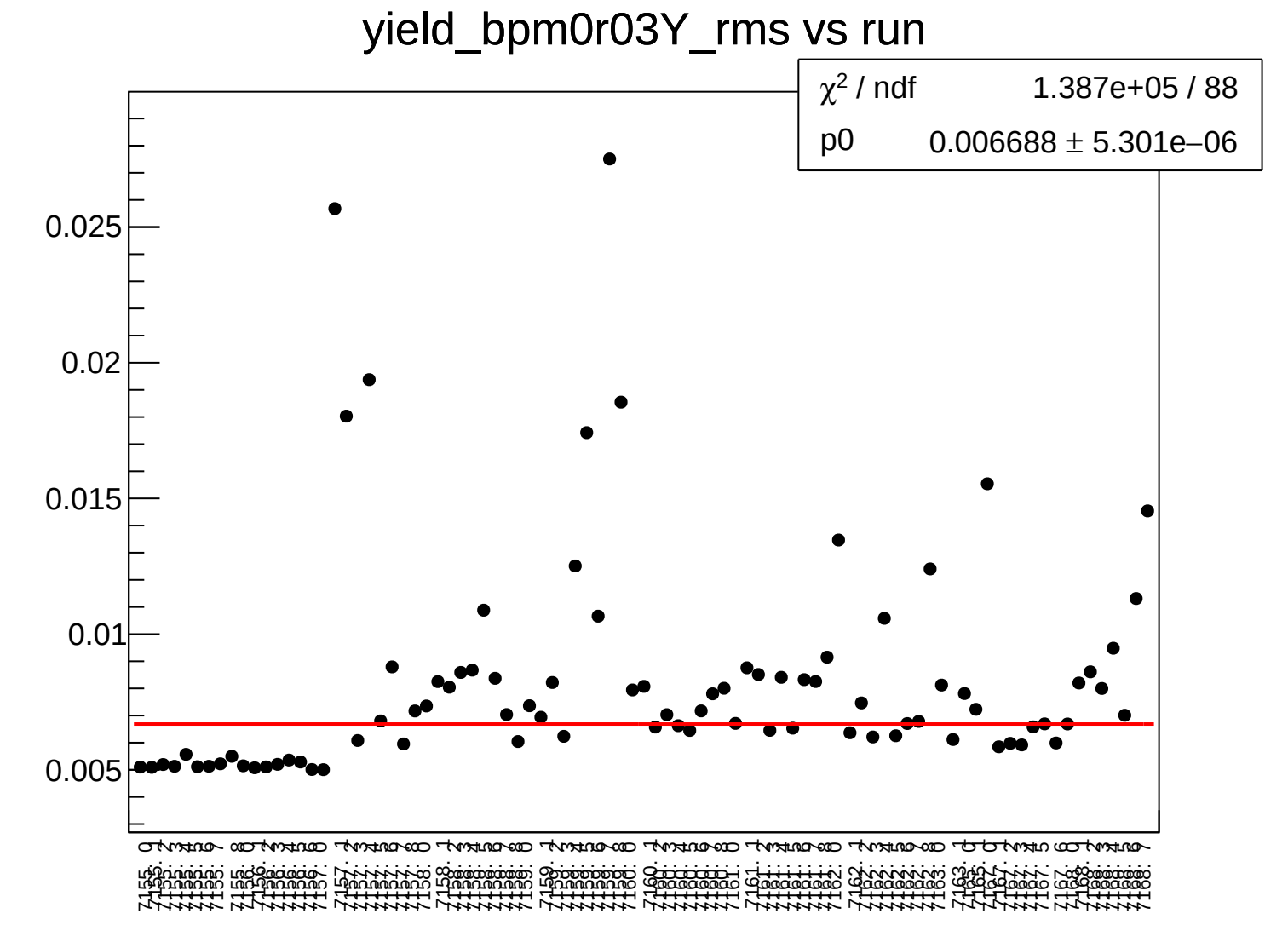

yield_bpm0l10Y_mean vs run
χ² / ndf 1.349e+08 / 88
p0 −0.3595 ± 3.395e−06
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 89
Mean 296.6
Std Dev 0
3500
3000
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

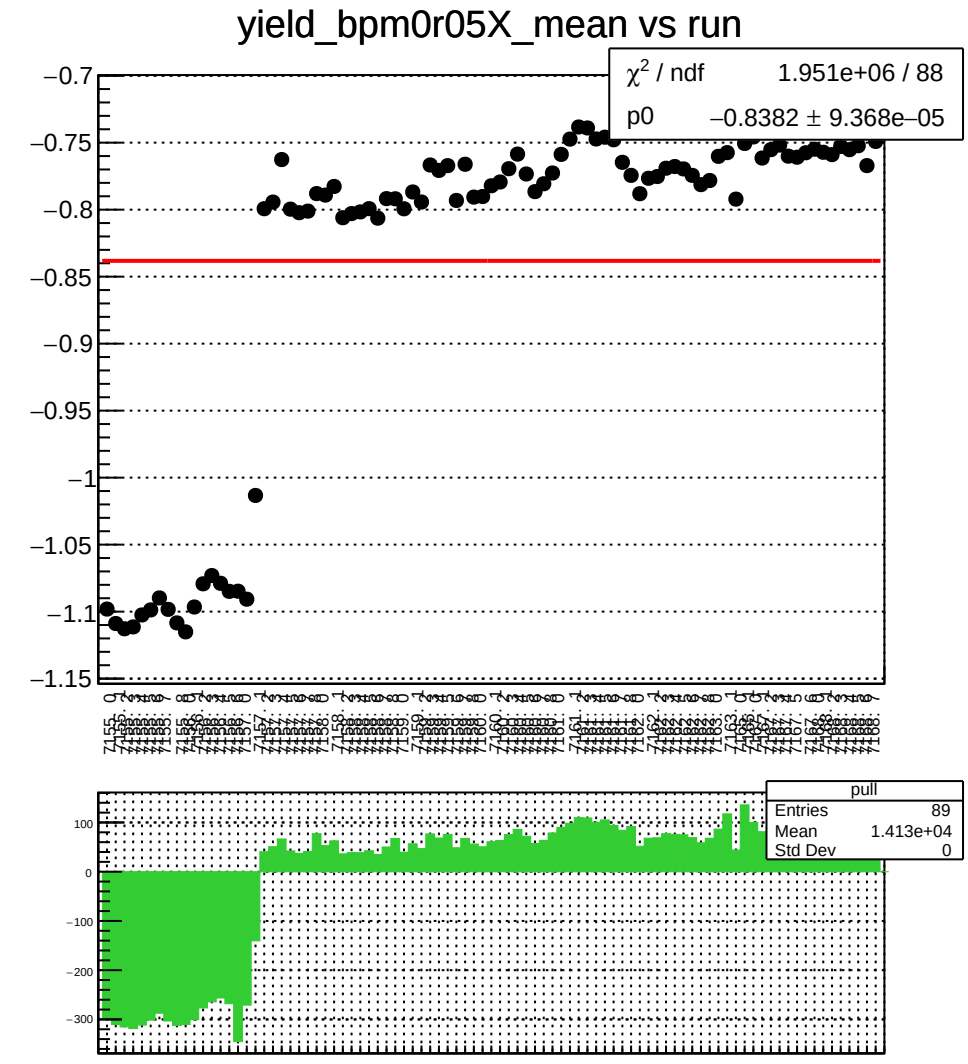

yield_bpm0l10Y_rms vs run
χ² / ndf 7.615e+04 / 88
p0 0.003087 ± 2.4e−06
0.03
0.025
0.02
0.015
0.01
0.005

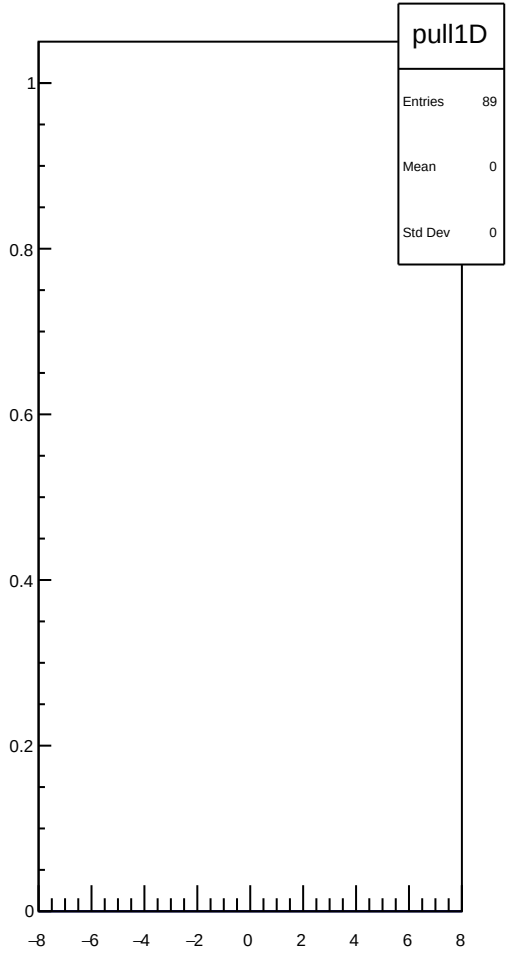

yield_bpm0r03X_mean vs run
χ² / ndf 1.314e+07 / 88
p0 −2.138 ± 8.044e−05
−1.6
−1.8
−2
−2.2
−2.4
pull
Entries 89
Mean −5.566e+04
Std Dev 0
1000
800
600
400
200
0
−200
−400
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

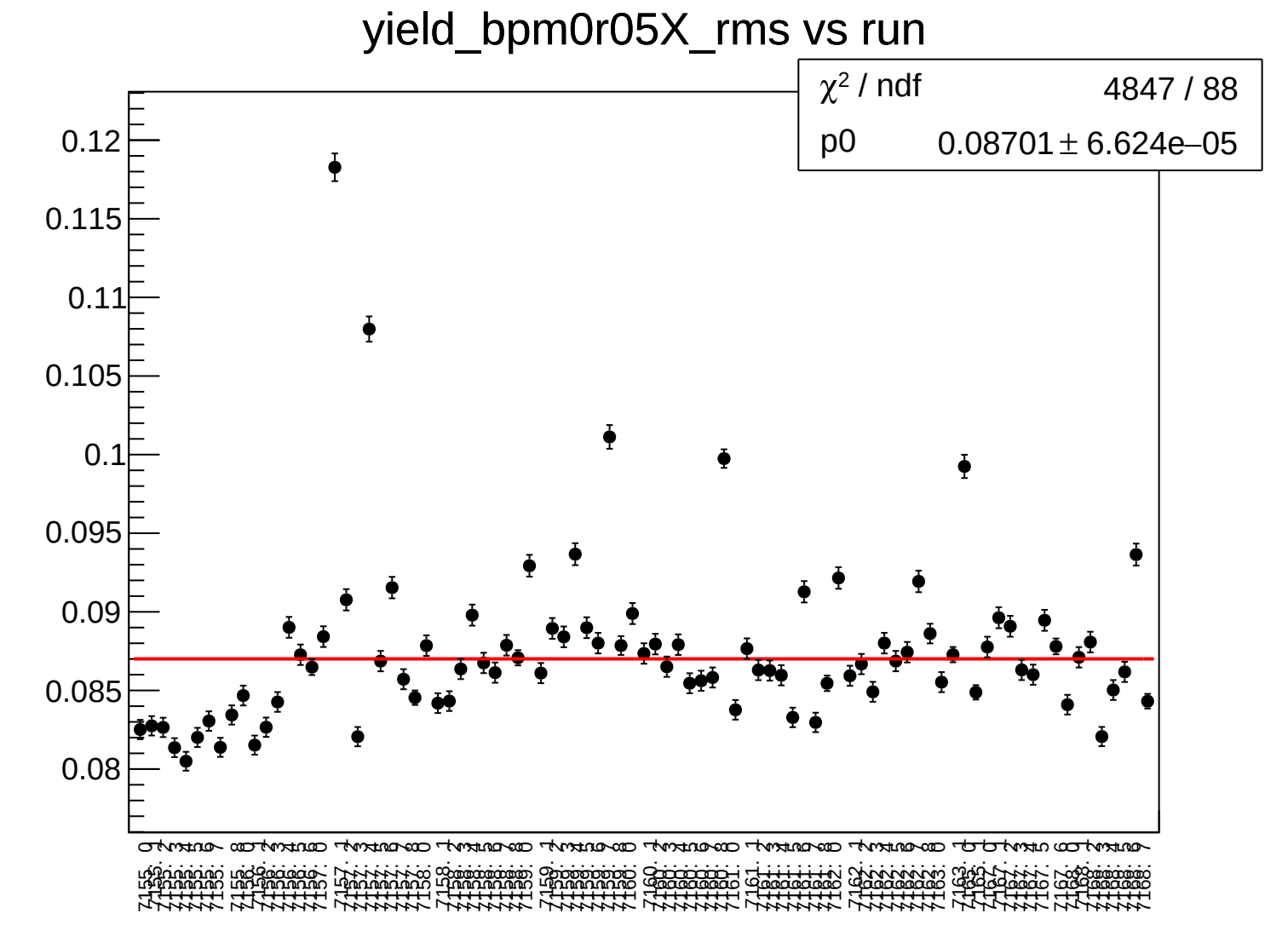

yield_bpm0r03X_rms vs run
χ² / ndf 2.023e+04 / 88
p0 0.07437 ± 5.688e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

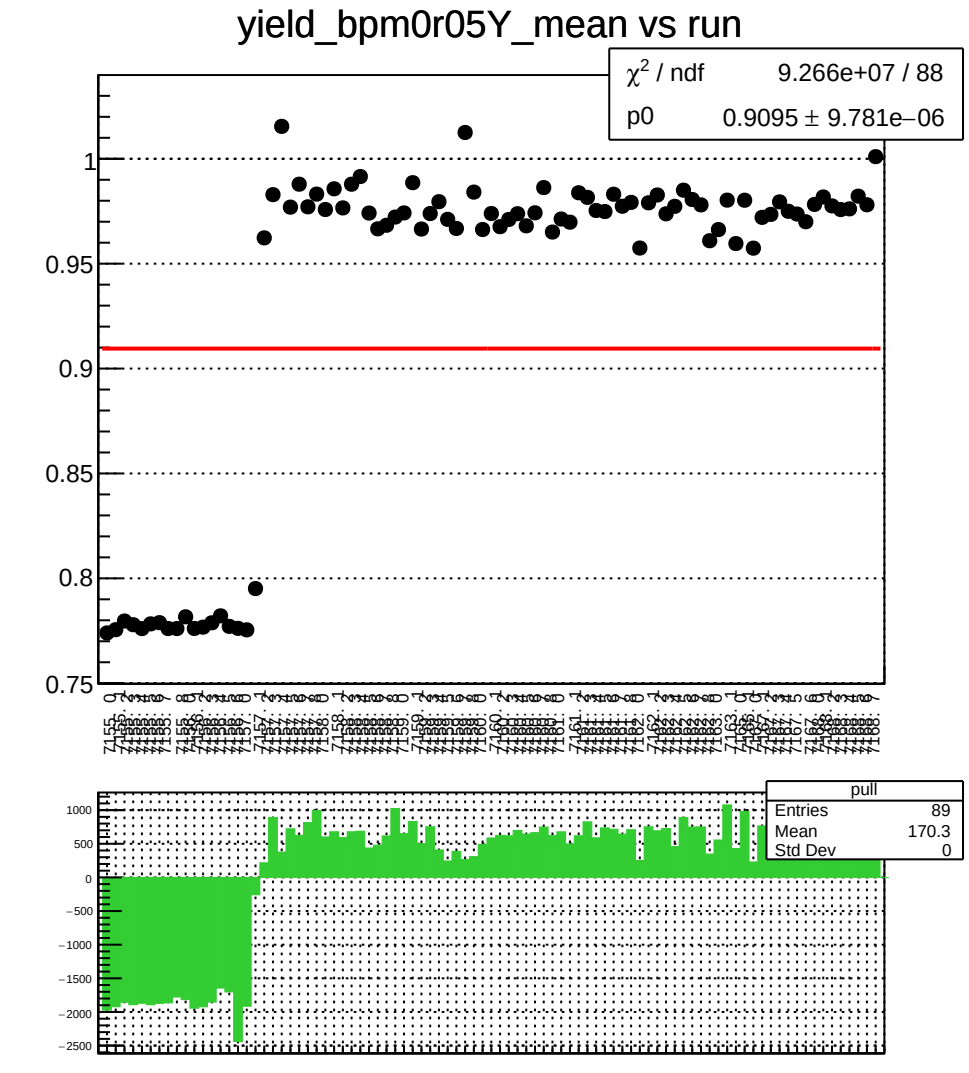

yield_bpm0r03Y_mean vs run
χ² / ndf 5.533e+07 / 88
p0 −0.5071 ± 7.497e−06
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
pull
Entries 89
Mean 171.5
Std Dev 0
1000
500
0
−500
−1000
−1500
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

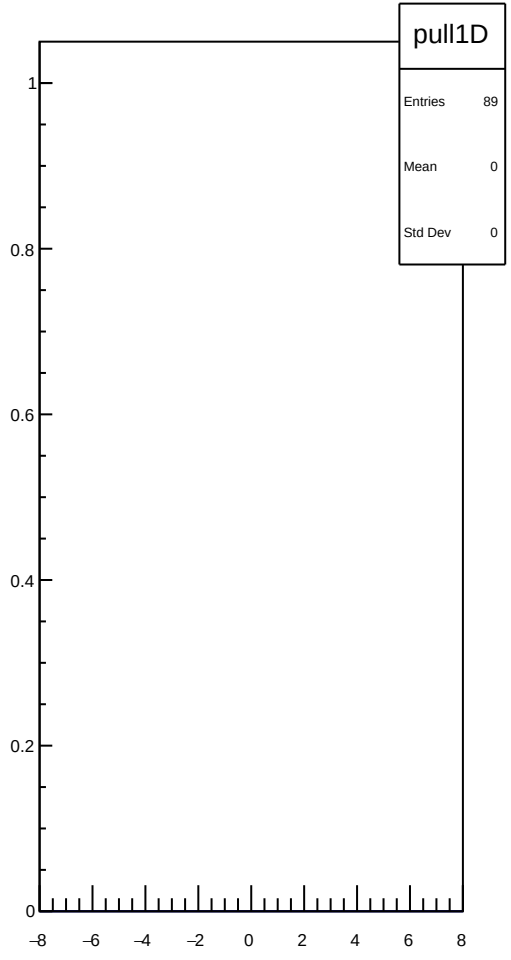

yield_bpm0r03Y_rms vs run
χ² / ndf 1.387e+05 / 88
p0 0.006688 ± 5.301e−06
0.025
0.02
0.015
0.01
0.005

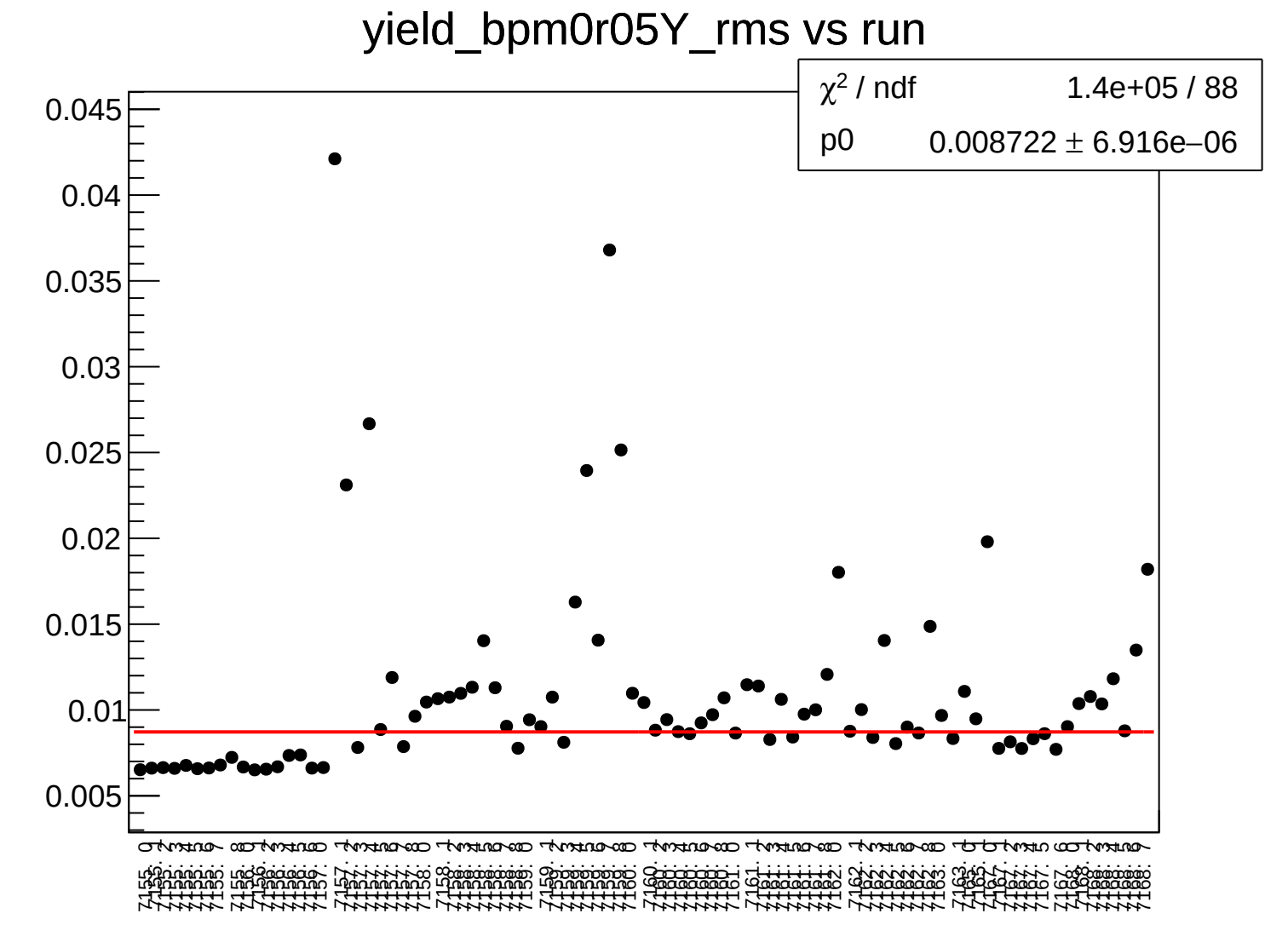

yield_bpm0r05X_mean vs run
χ² / ndf 1.951e+06 / 88
p0 −0.8382 ± 9.368e−05
pull
Entries 89
Mean 1.413e+04
Std Dev 0

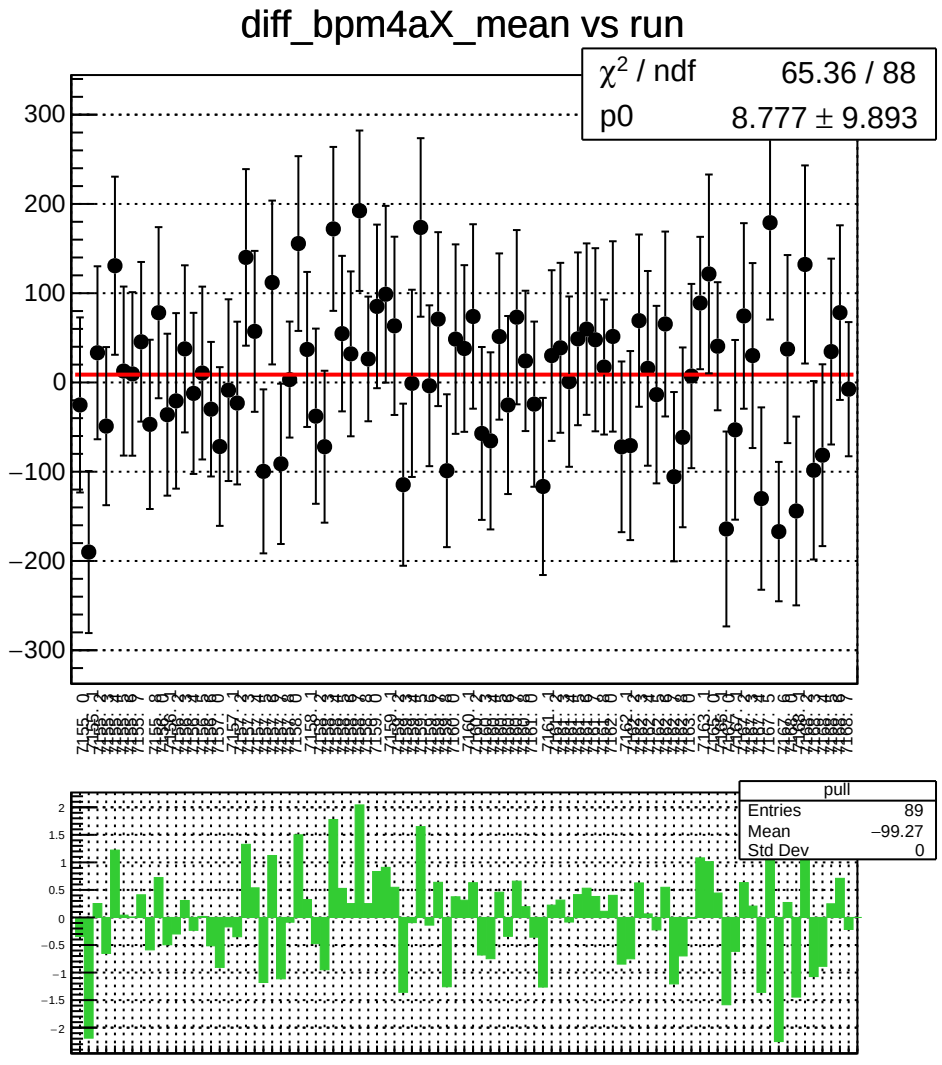

pull1D
Entries 89
Mean 0
Std Dev 0

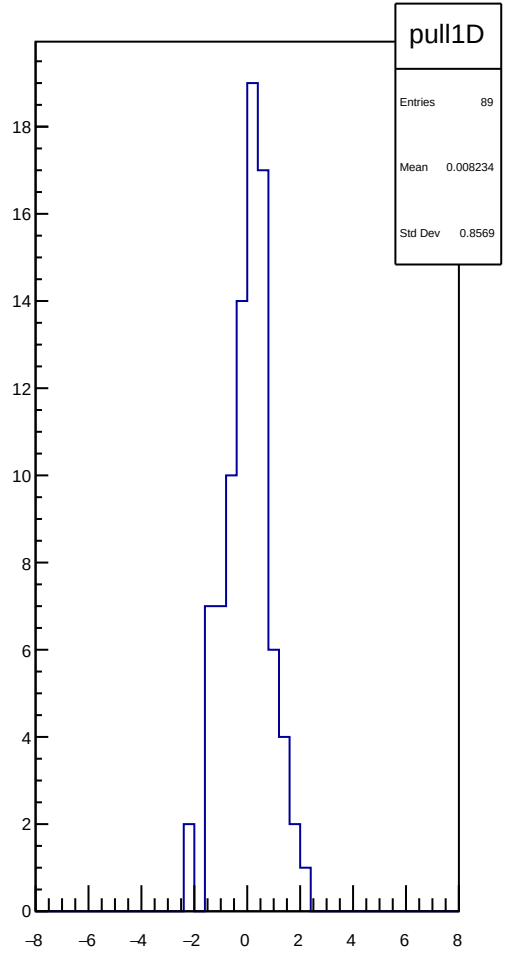

yield_bpm0r05X_rms vs run
χ² / ndf 4847 / 88
p0 0.08701 ± 6.624e–05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

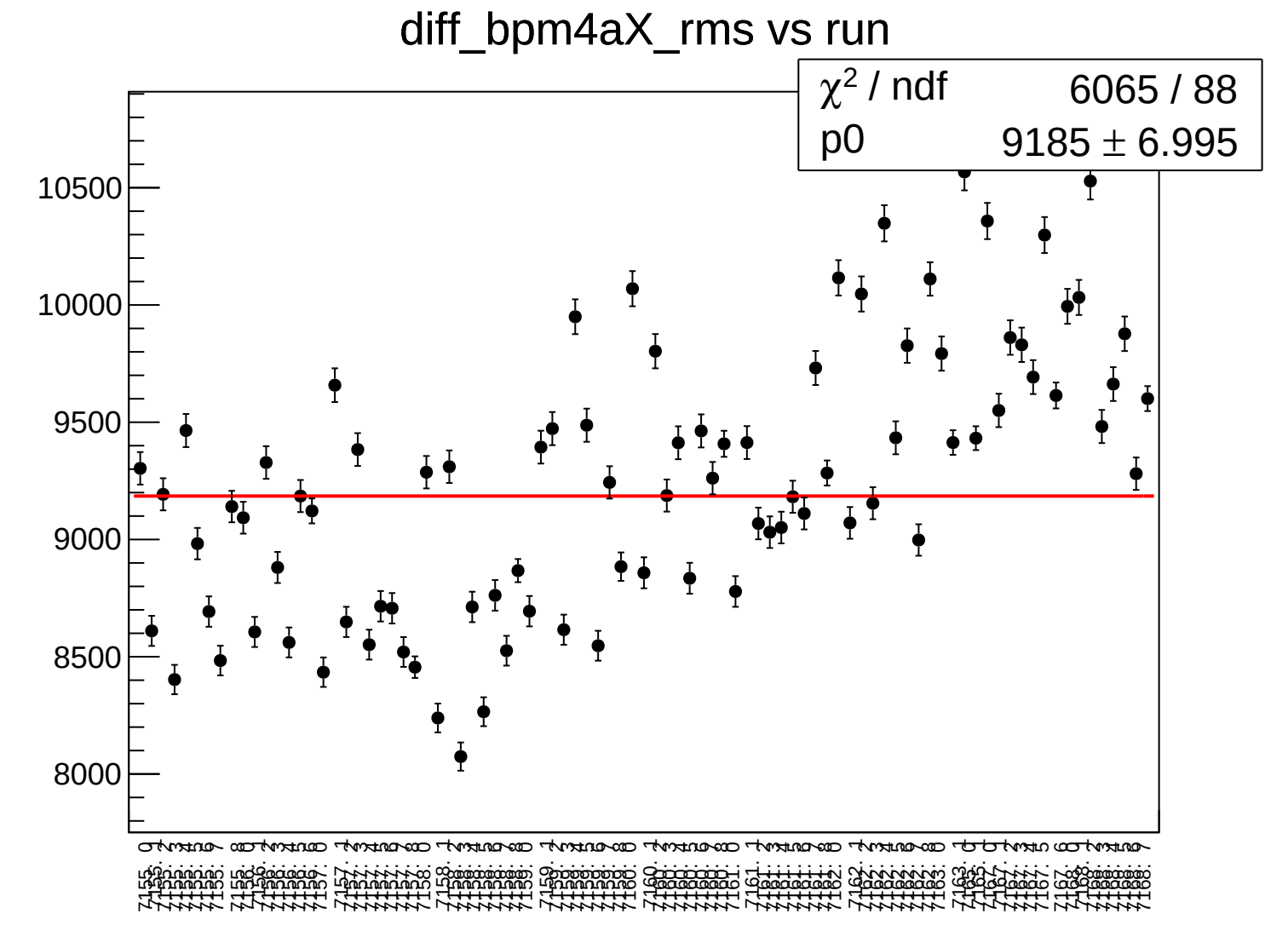

yield_bpm0r05Y_mean vs run
χ² / ndf 9.266e+07 / 88
p0 0.9095 ± 9.781e−06
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 89
Mean 170.3
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

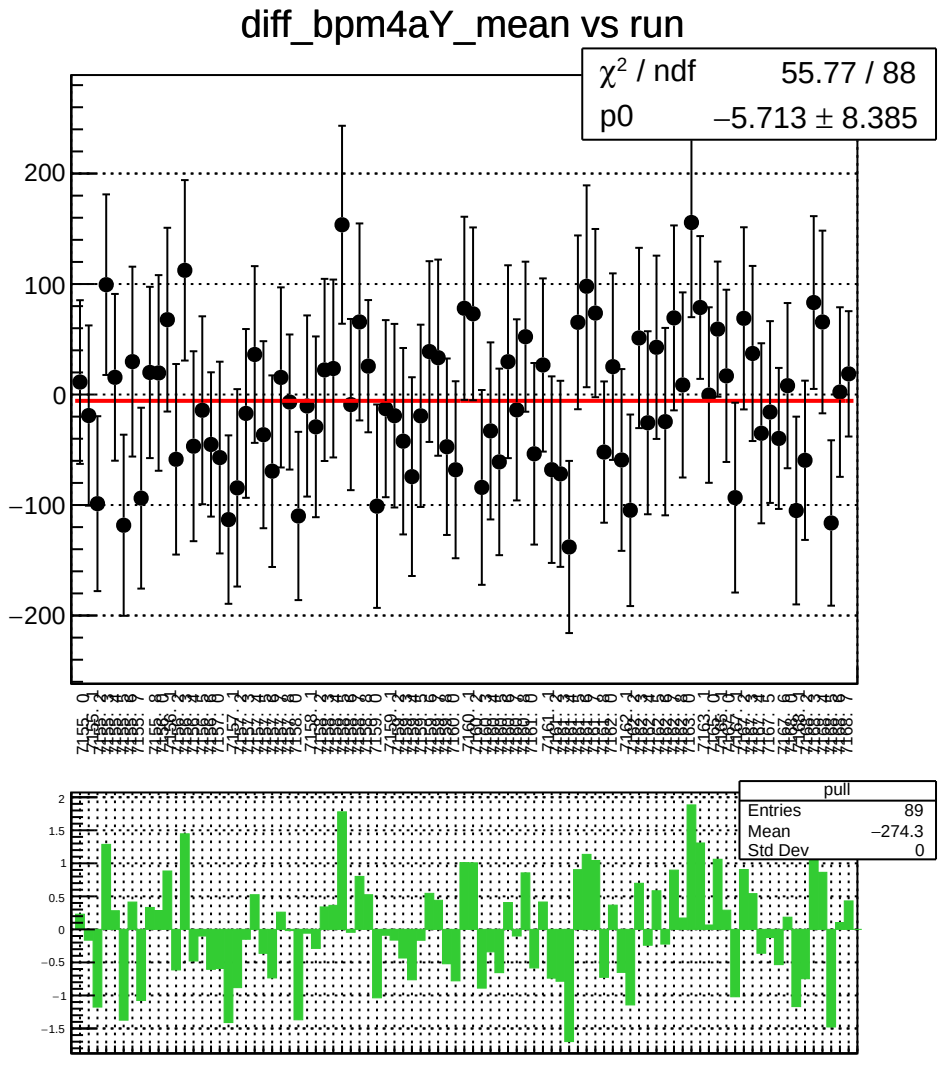

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

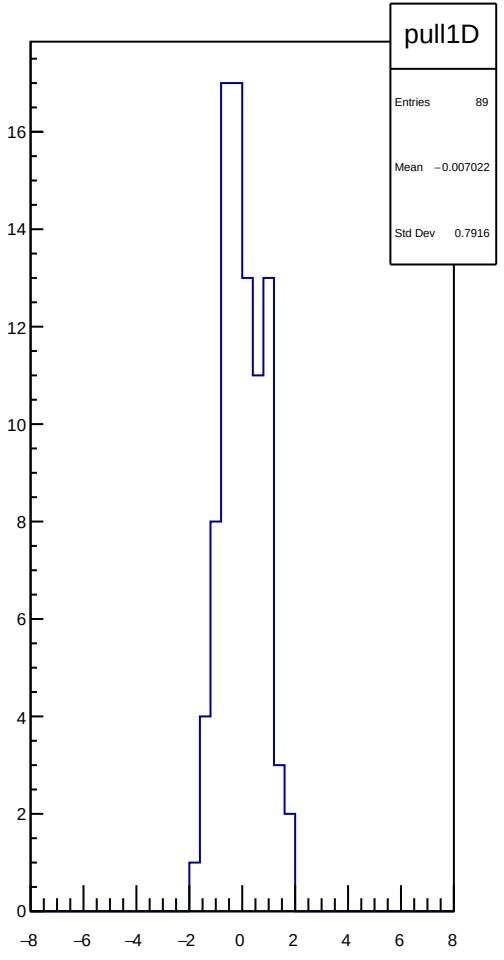

yield_bpm0r05Y_rms vs run
χ² / ndf 1.4e+05 / 88
p0 0.008722 ± 6.916e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

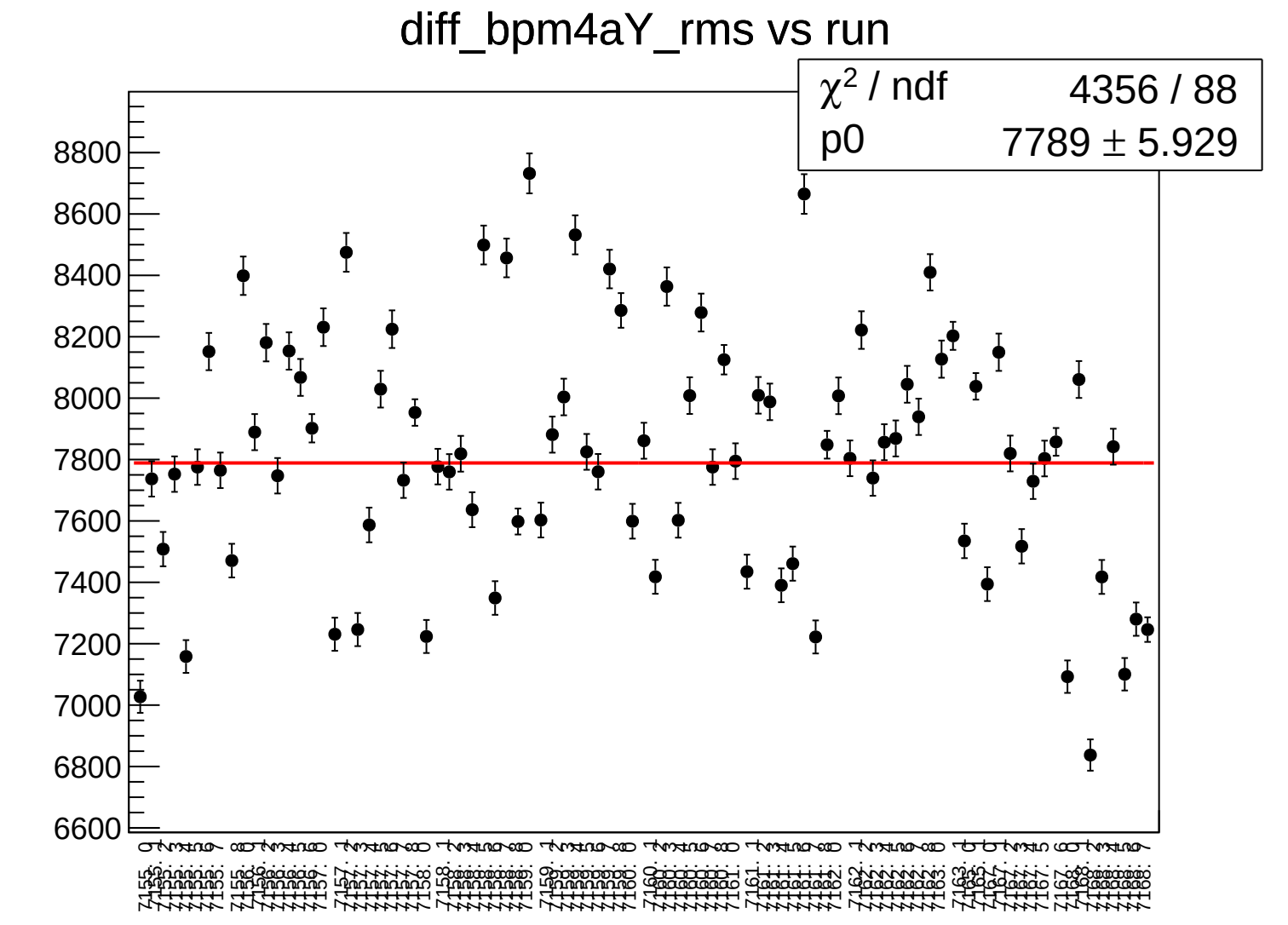

diff_bpm4aX_mean vs run
χ² / ndf 65.36 / 88
p0 8.777 ± 9.893
300
200
100
0
−100
−200
−300
pull
Entries 89
Mean −99.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

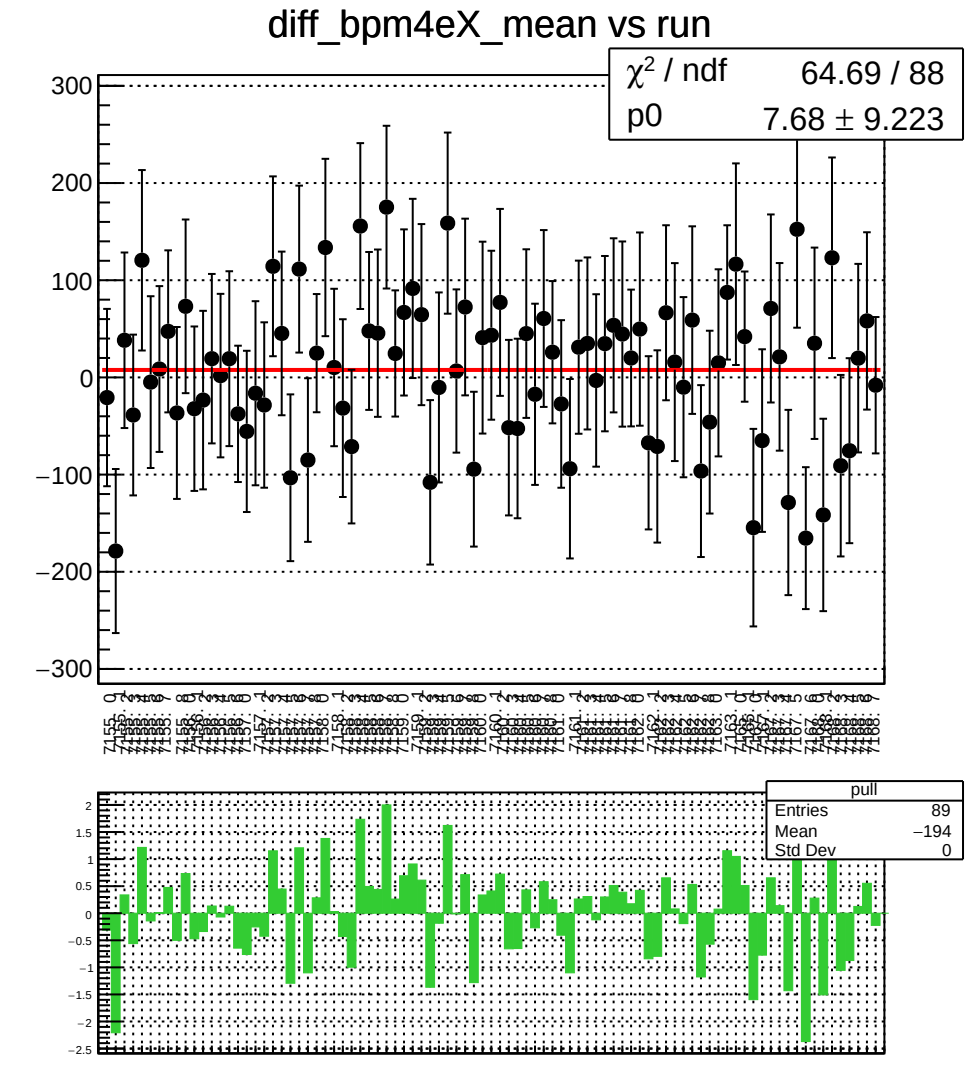

pull1D
Entries 89
Mean 0.008234
Std Dev 0.8569
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

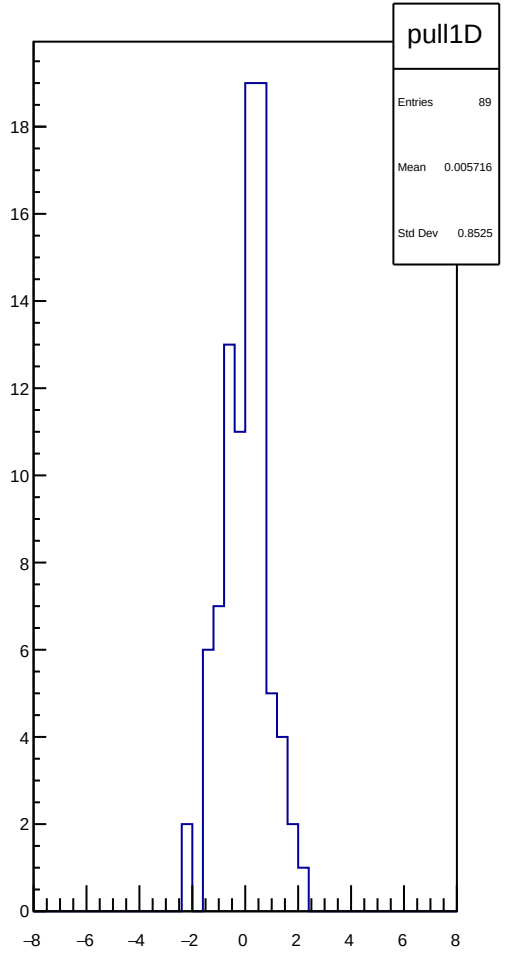

diff_bpm4aX_rms vs run
χ^2 / ndf 6065 / 88
p0 9185 ± 6.995
10500
10000
9500
9000
8500
8000

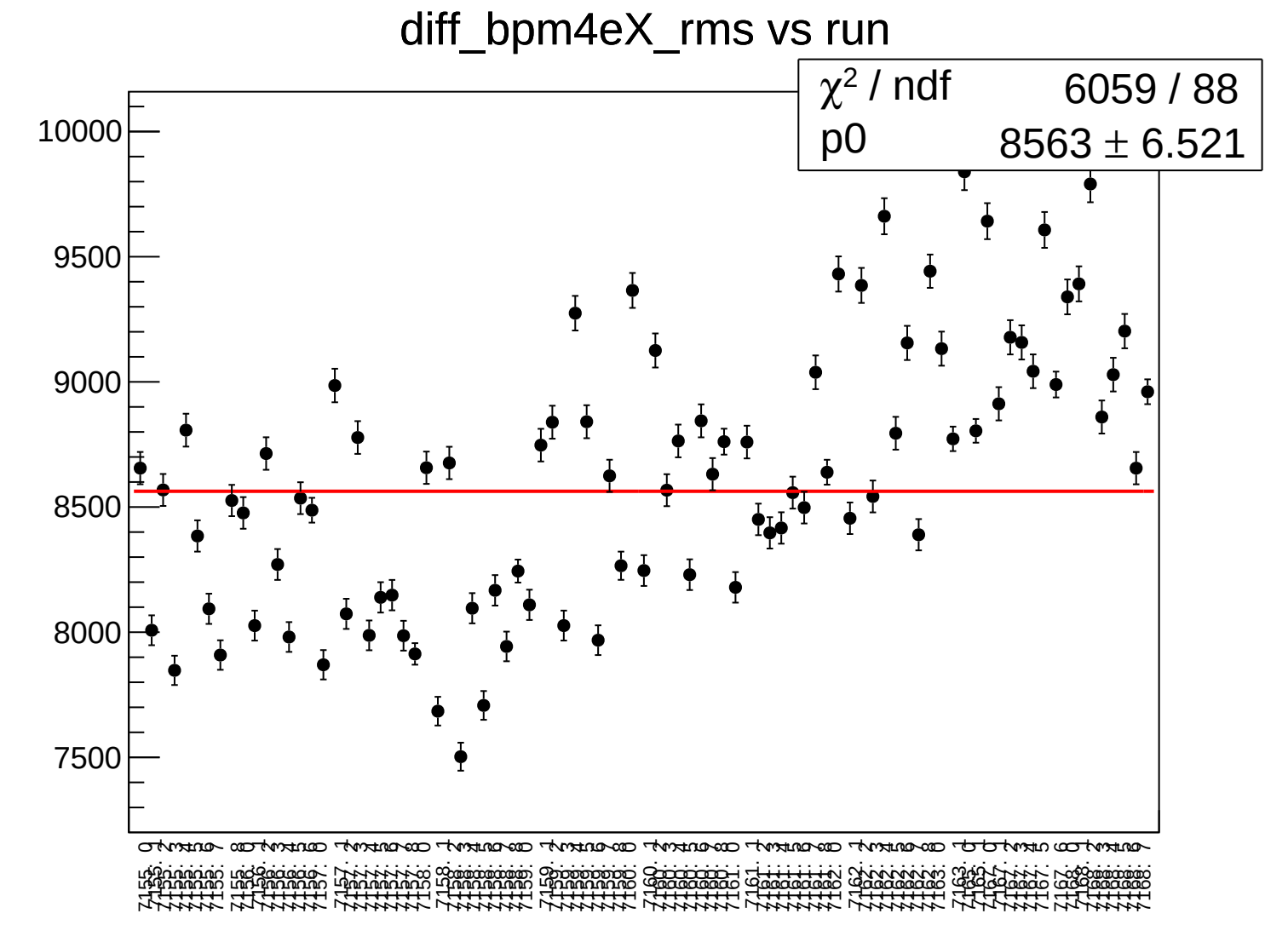

diff_bpm4aY_mean vs run
χ² / ndf 55.77 / 88
p0 −5.713 ± 8.385
200
100
0
−100
−200
pull
Entries 89
Mean −274.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

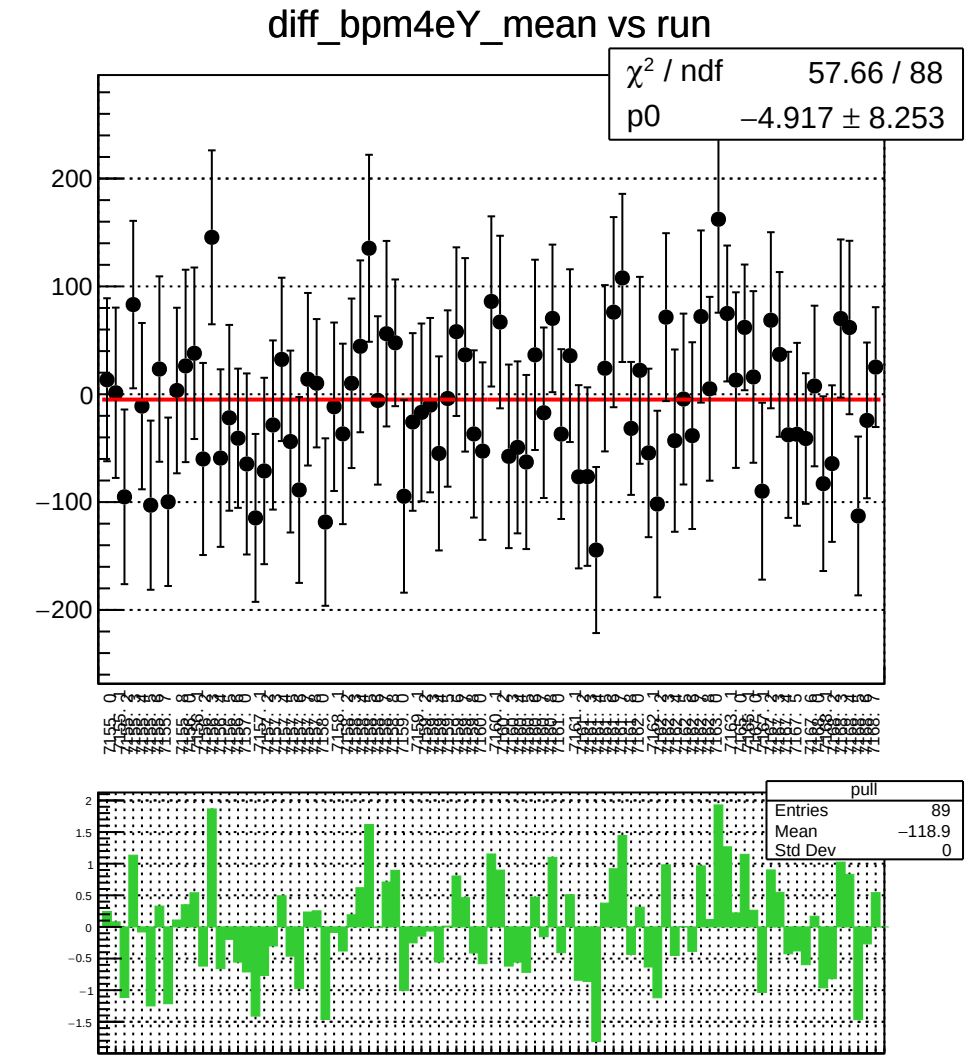

pull1D
Entries 89
Mean −0.007022
Std Dev 0.7916
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

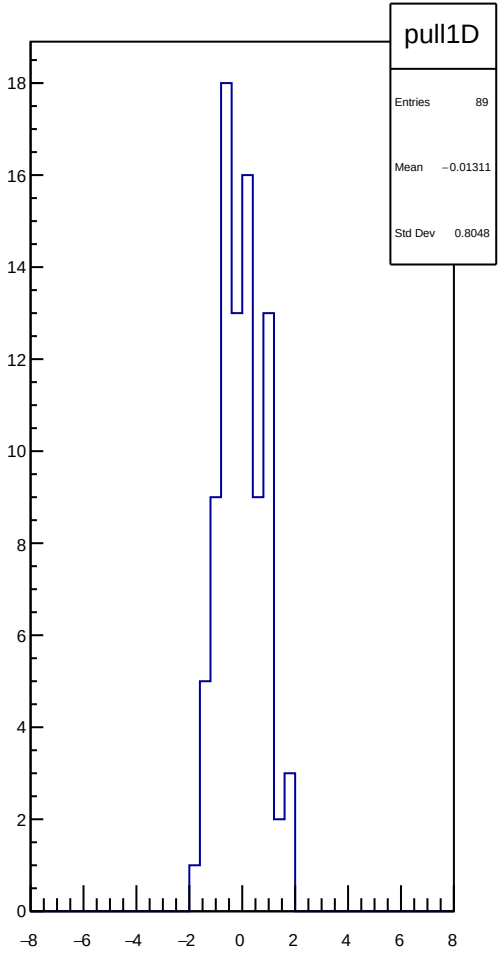

diff_bpm4aY_rms vs run
χ² / ndf 4356 / 88
p0 7789 ± 5.929
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800
6600

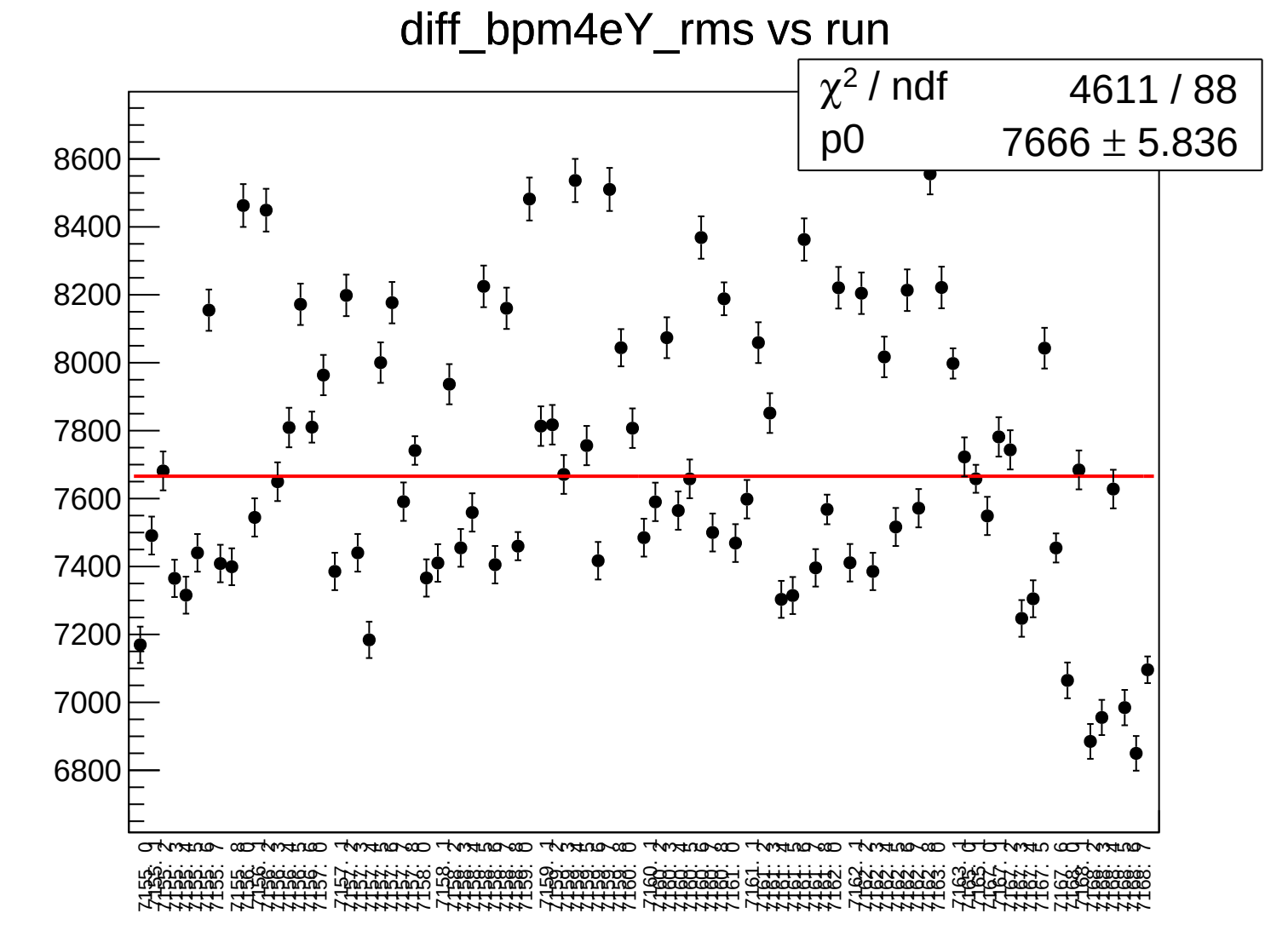

diff_bpm4eX_mean vs run
χ² / ndf 64.69 / 88
p0 7.68 ± 9.223
pull
Entries 89
Mean −194
Std Dev 0

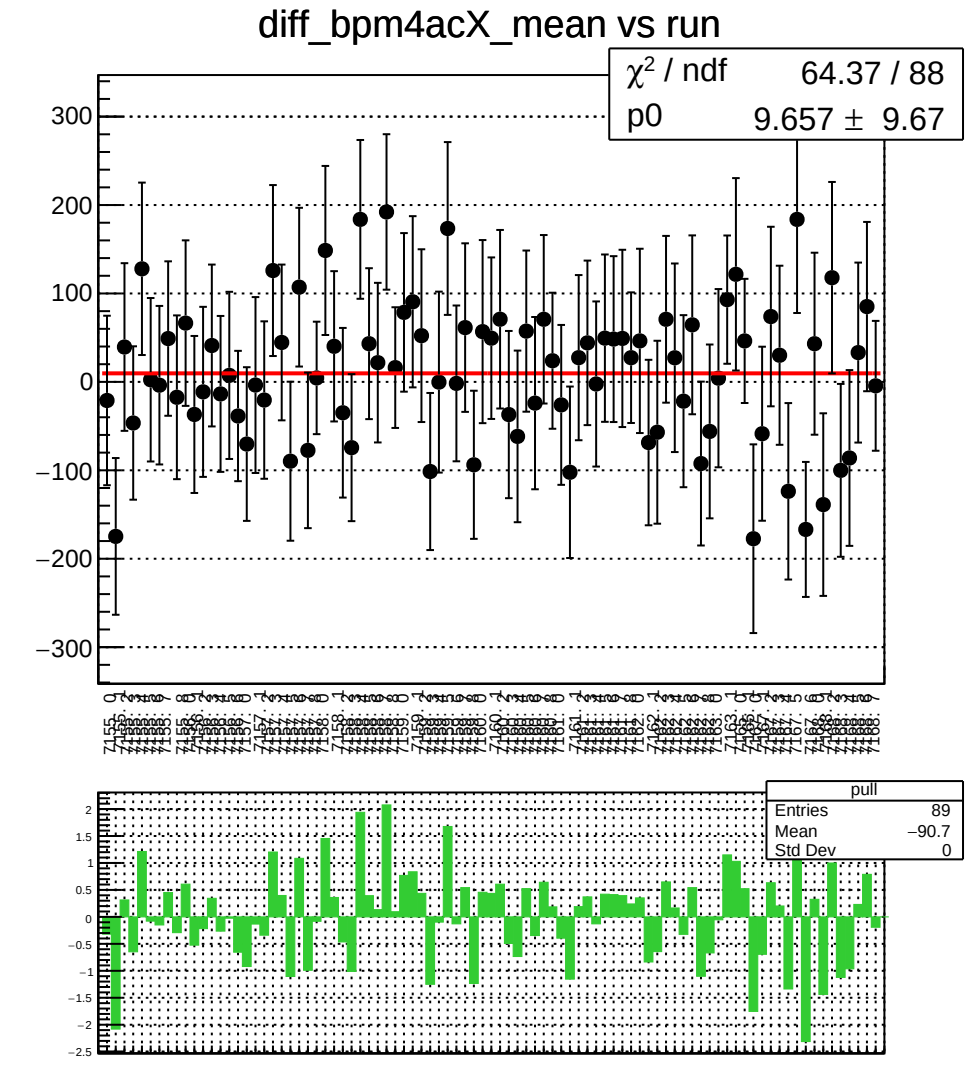

pull1D
Entries 89
Mean 0.005716
Std Dev 0.8525

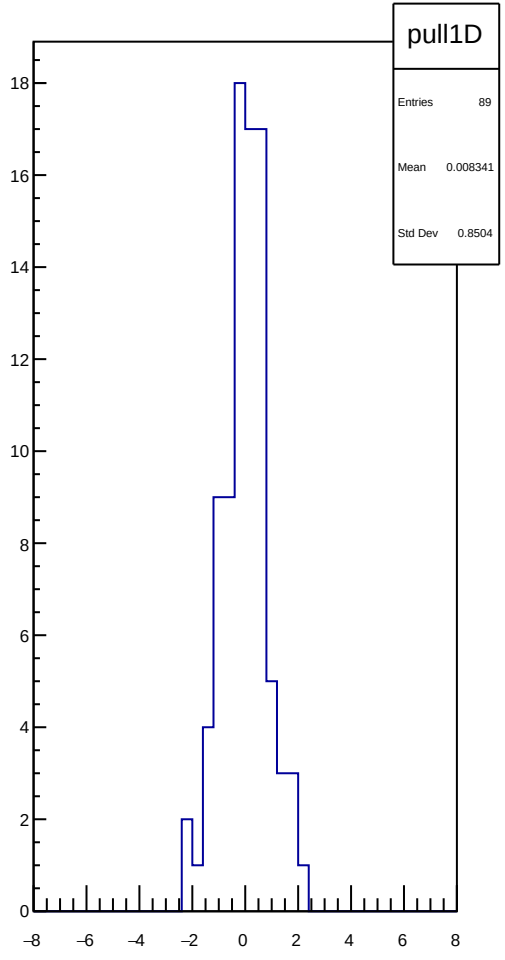

diff_bpm4eX_rms vs run
χ² / ndf 6059 / 88
p0 8563 ± 6.521
10000
9500
9000
8500
8000
7500

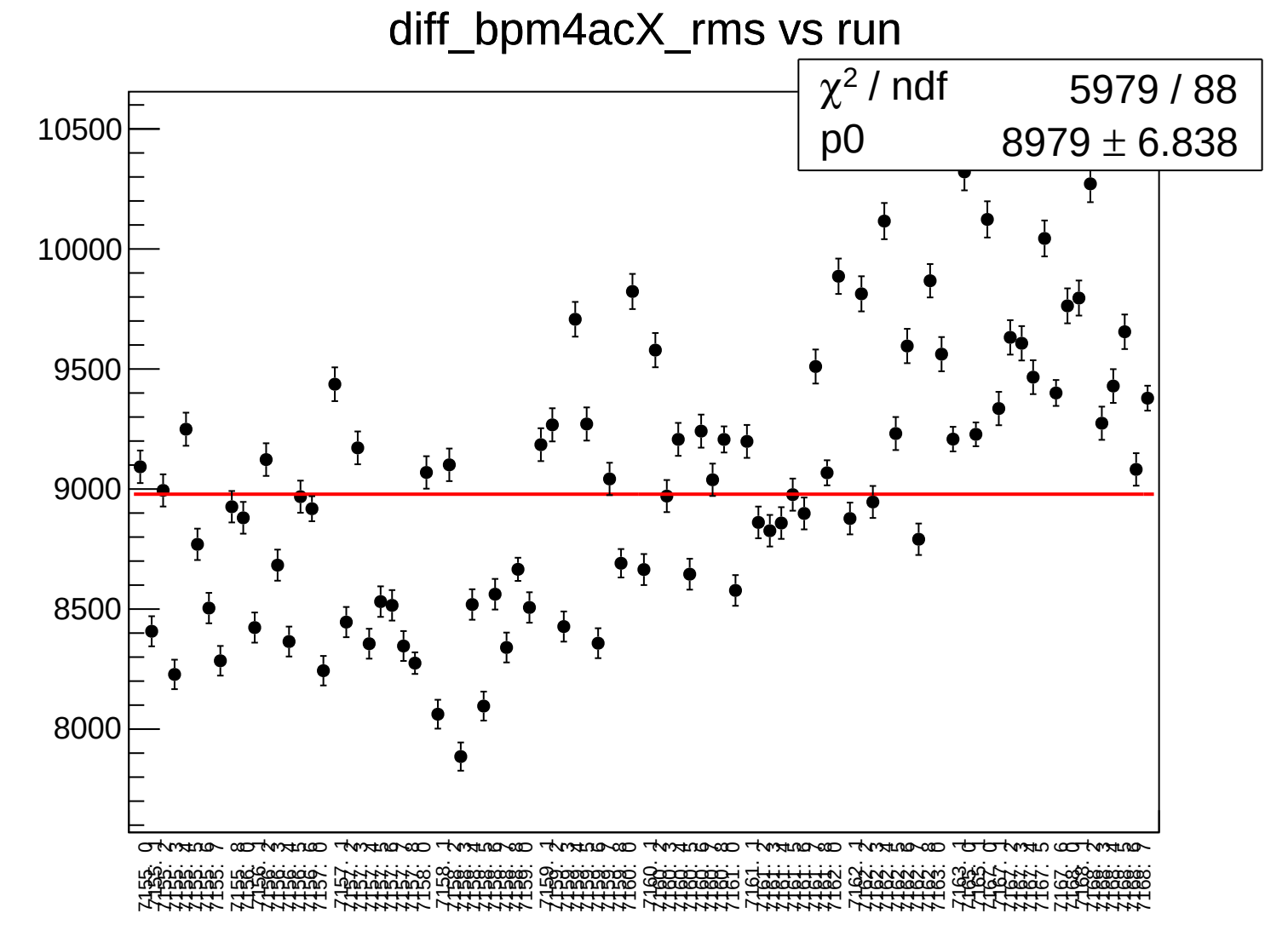

diff_bpm4eY_mean vs run
χ² / ndf 57.66 / 88
p0 −4.917 ± 8.253
200
100
0
−100
−200
pull
Entries 89
Mean −118.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

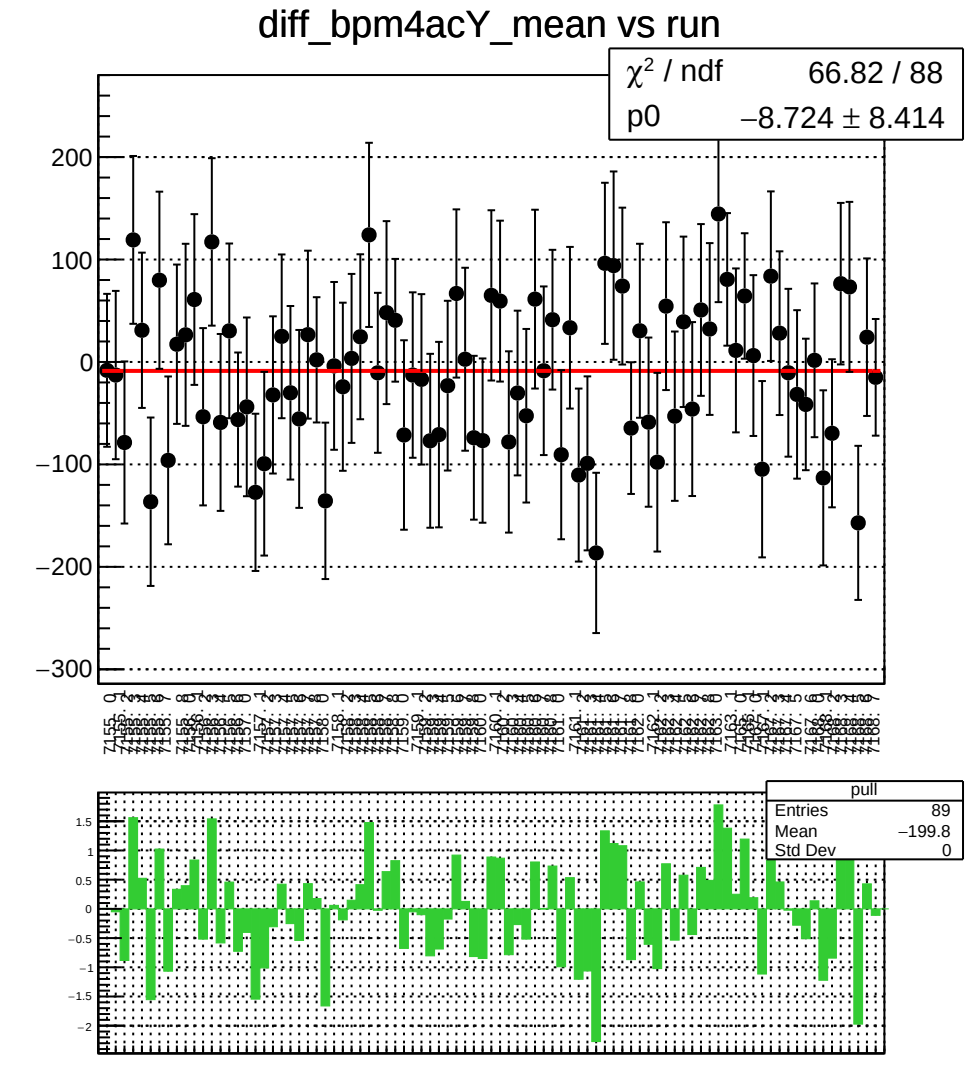

pull1D
Entries 89
Mean −0.01311
Std Dev 0.8048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

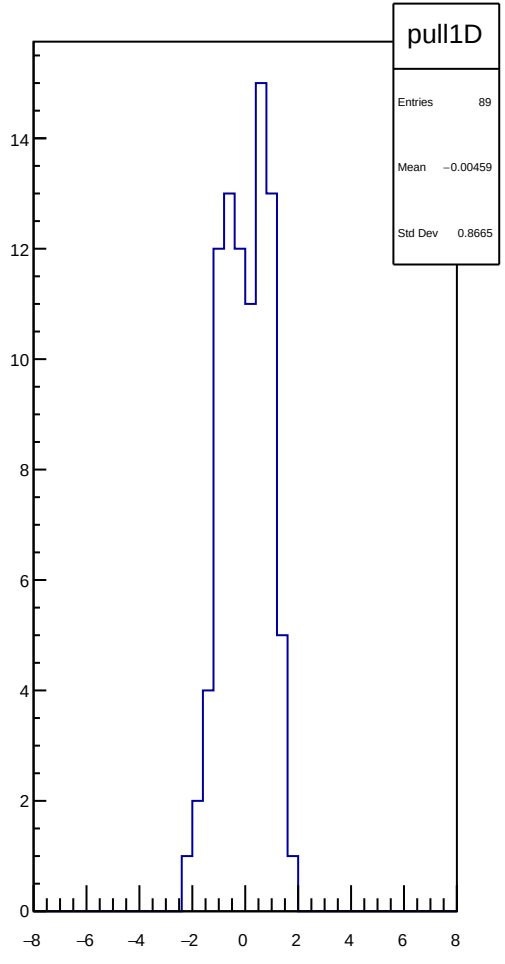

diff_bpm4eY_rms vs run
χ² / ndf 4611 / 88
p0 7666 ± 5.836
8600
8400
8200
8000
7800
7600
7400
7200
7000
6800

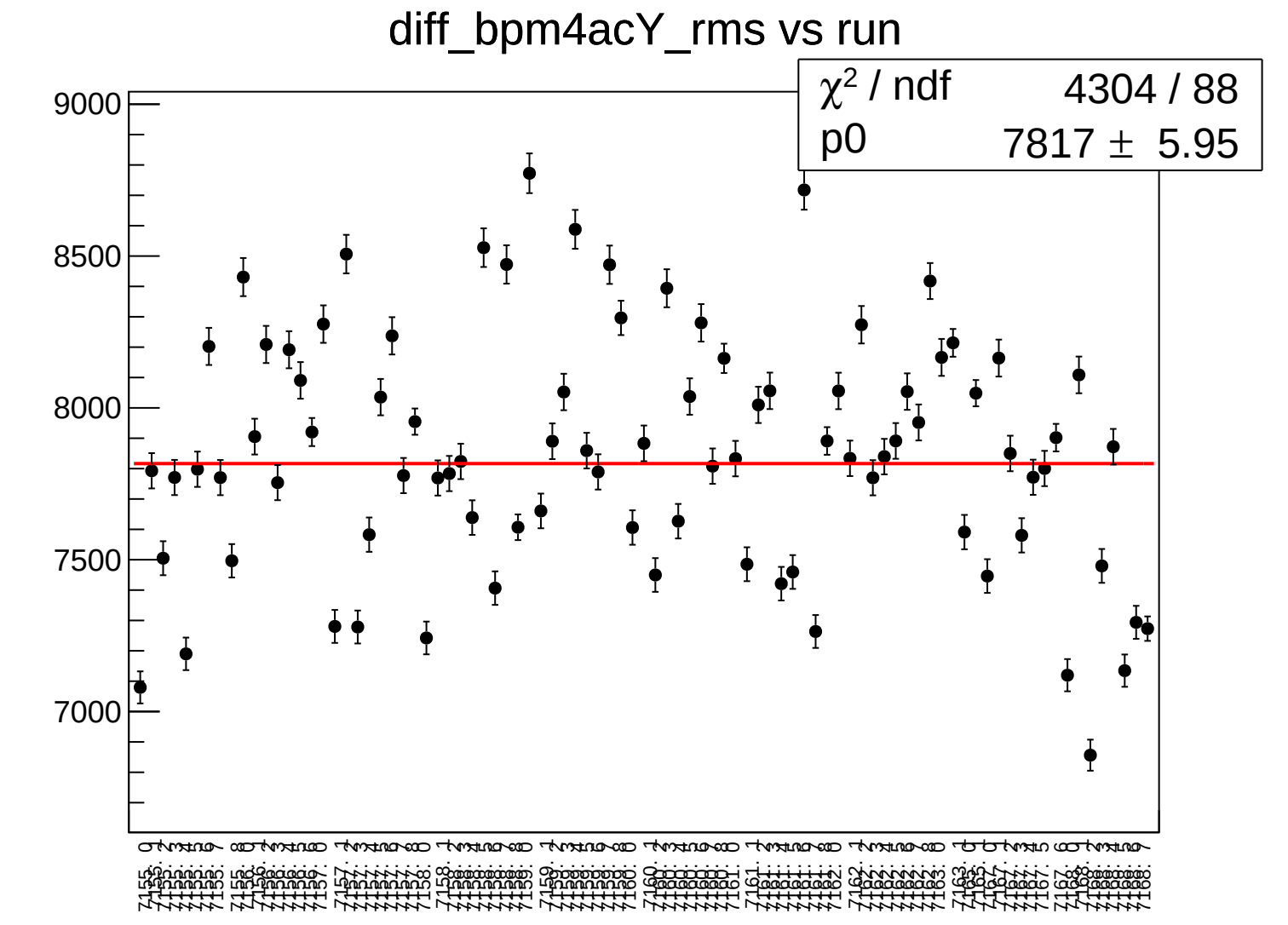

diff_bpm4acX_mean vs run
χ² / ndf 64.37 / 88
p0 9.657 ± 9.67
pull
Entries 89
Mean −90.7
Std Dev 0

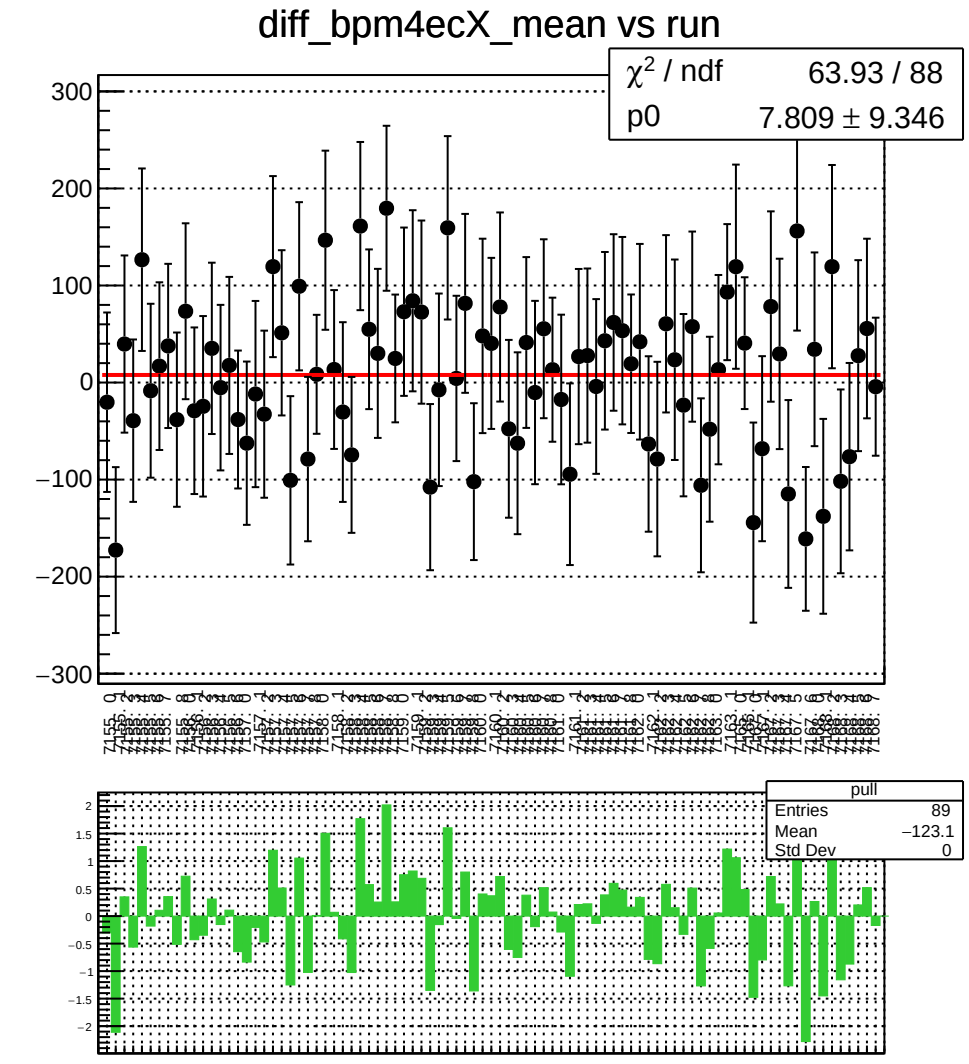

pull1D
Entries 89
Mean 0.008341
Std Dev 0.8504

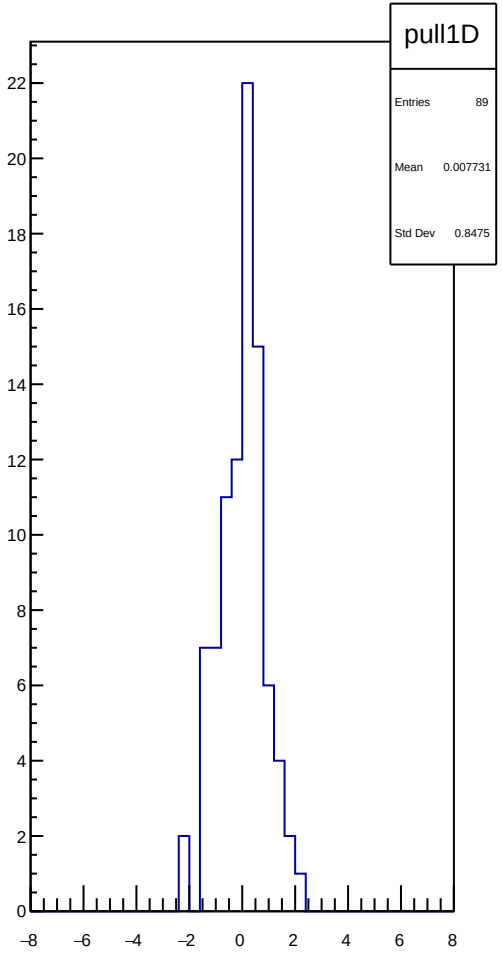

diff_bpm4acX_rms vs run
χ^2 / ndf 5979 / 88
p0 8979 ± 6.838
10500
10000
9500
9000
8500
8000

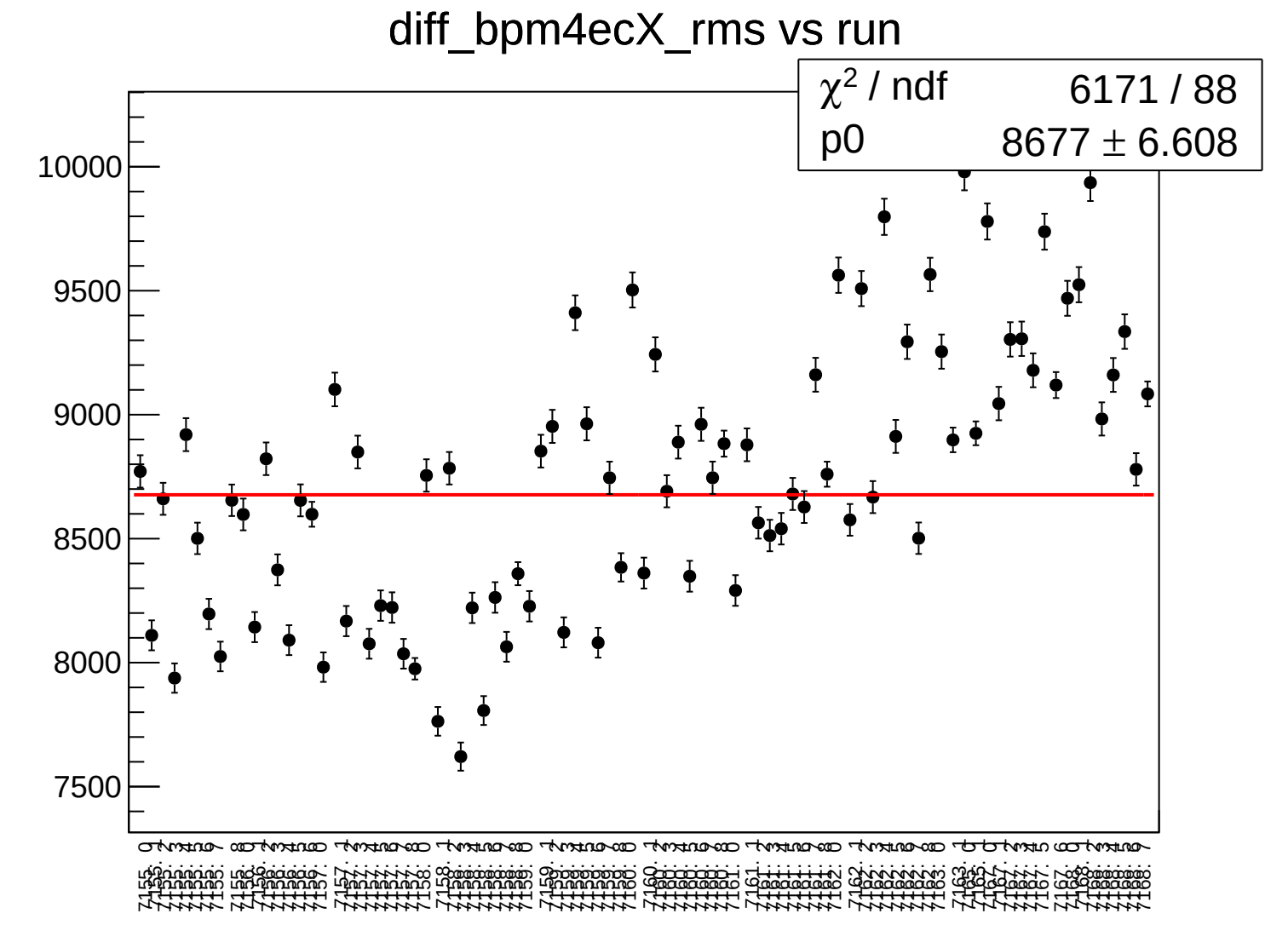

diff_bpm4acY_mean vs run
χ² / ndf 66.82 / 88
p0 −8.724 ± 8.414
200
100
0
−100
−200
−300
pull
Entries 89
Mean −199.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

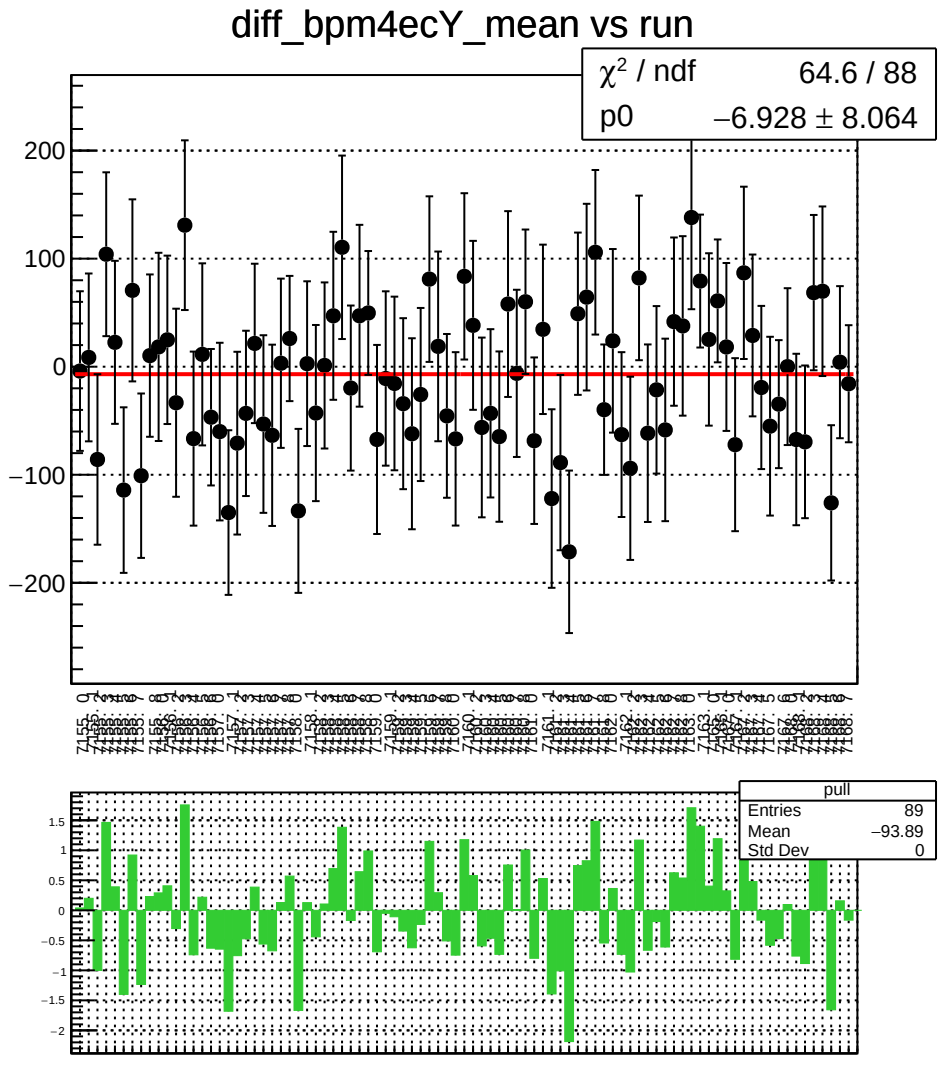

pull1D
Entries 89
Mean −0.00459
Std Dev 0.8665
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

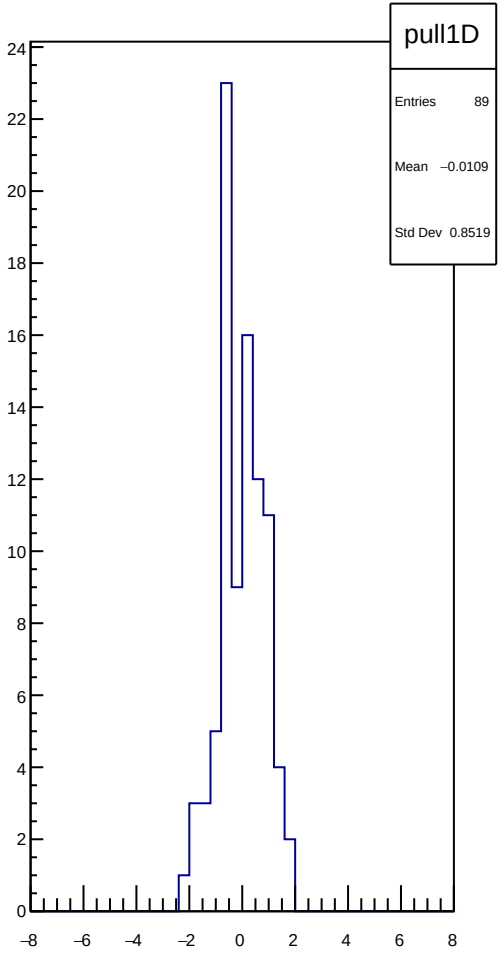

diff_bpm4acY_rms vs run
χ² / ndf 4304 / 88
p0 7817 ± 5.95
9000
8500
8000
7500
7000

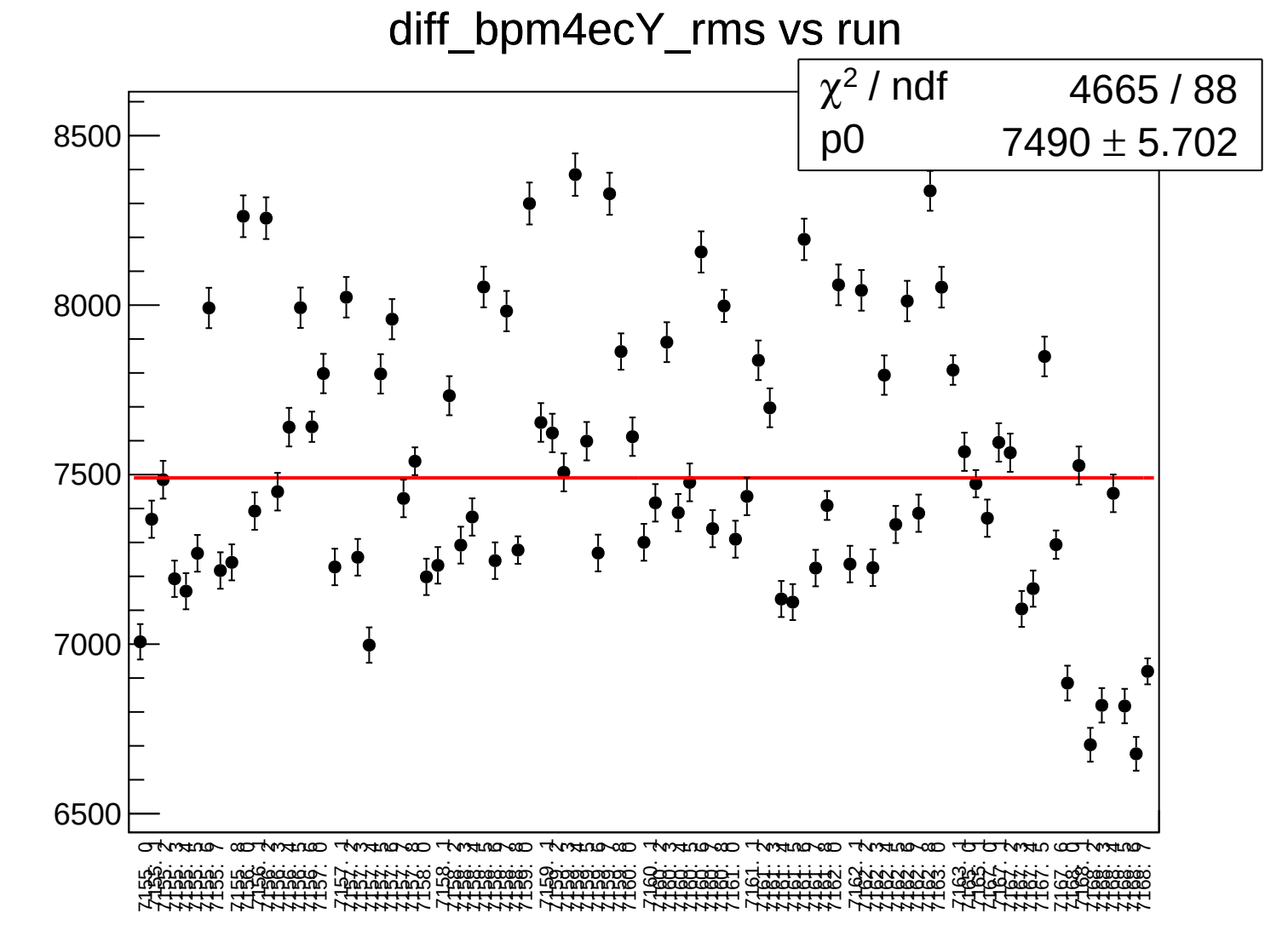

diff_bpm4ecX_mean vs run
χ² / ndf 63.93 / 88
p0 7.809 ± 9.346
pull
Entries 89
Mean −123.1
Std Dev 0

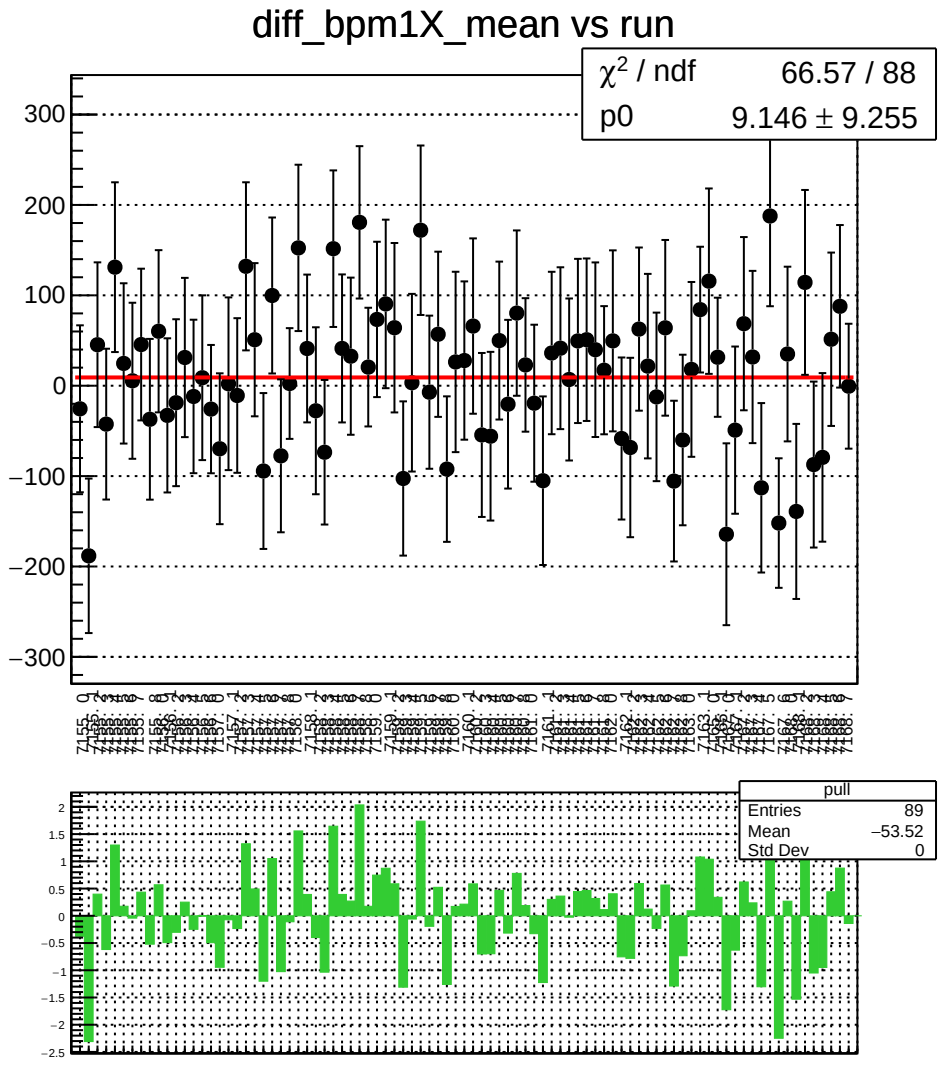

pull1D
Entries 89
Mean 0.007731
Std Dev 0.8475

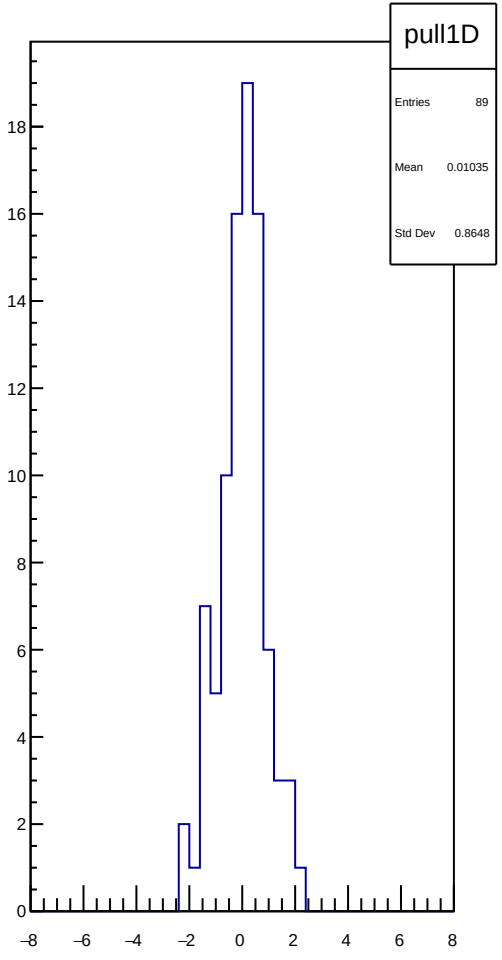

diff_bpm4ecX_rms vs run
χ² / ndf 6171 / 88
p0 8677 ± 6.608
10000
9500
9000
8500
8000
7500

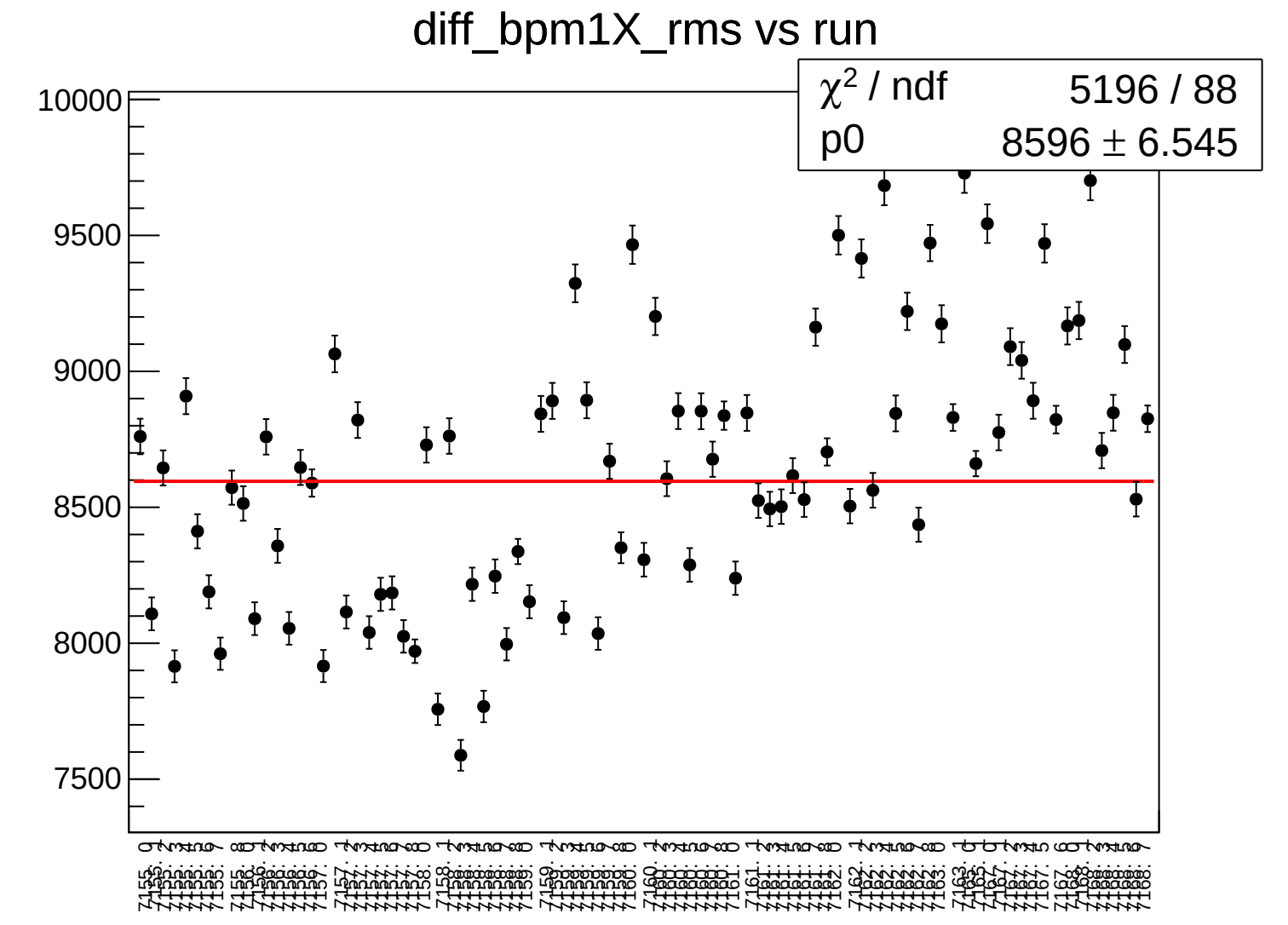

diff_bpm4ecY_mean vs run
χ² / ndf 64.6 / 88
p0 −6.928 ± 8.064
200
100
0
−100
−200
pull
Entries 89
Mean −93.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

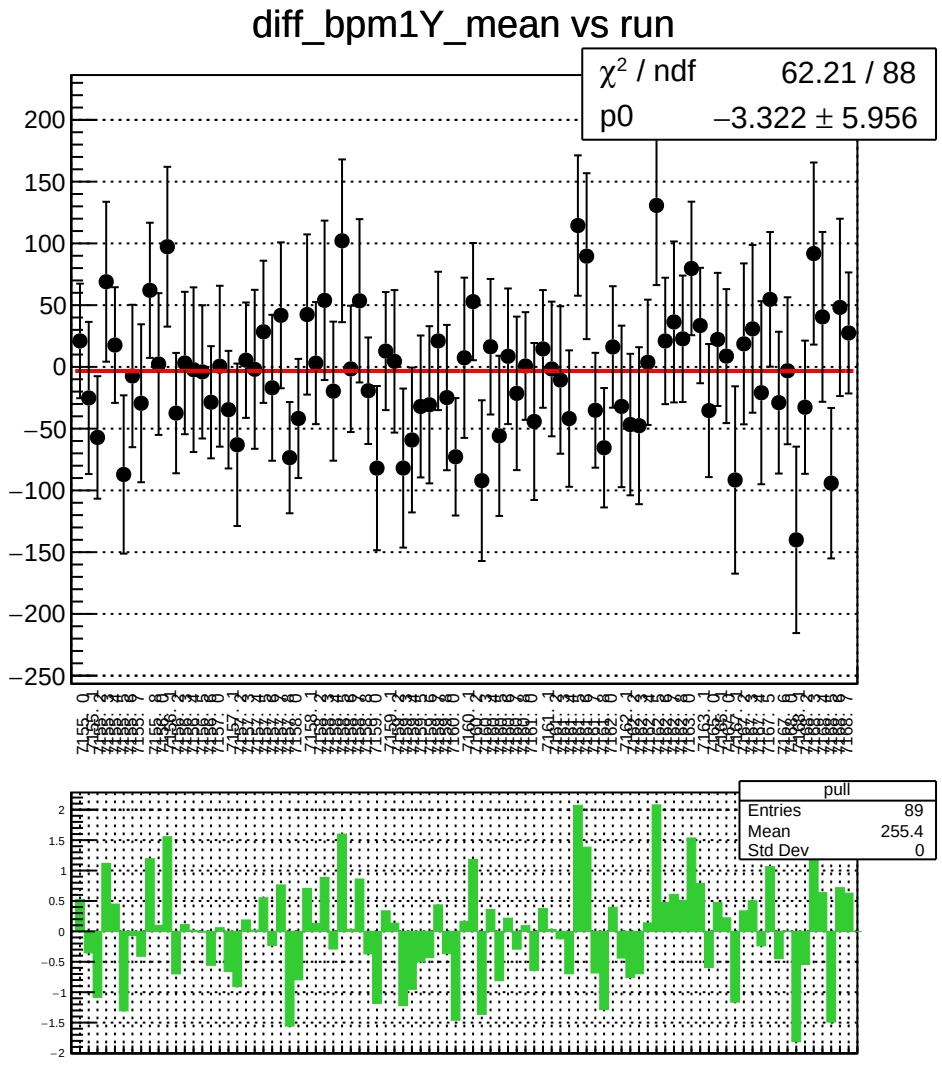

pull1D
Entries 89
Mean −0.0109
Std Dev 0.8519
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

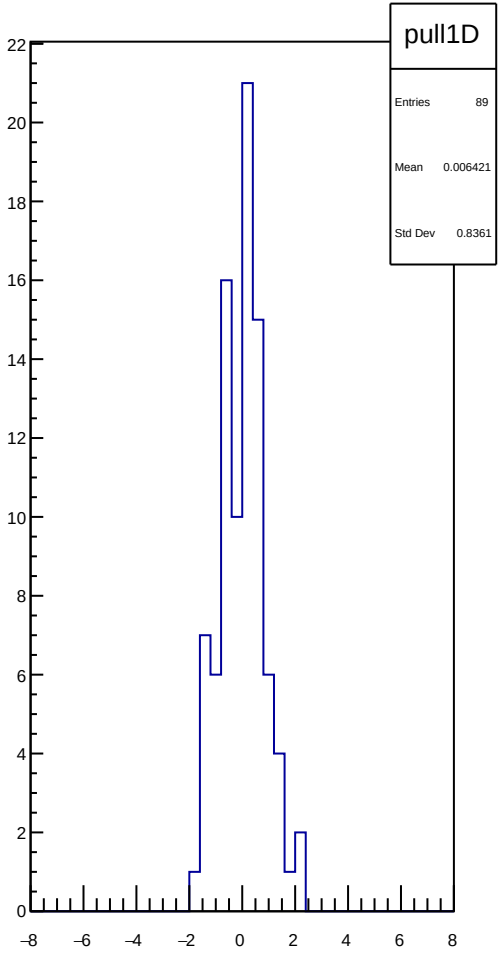

diff_bpm4ecY_rms vs run
χ² / ndf 4665 / 88
p0 7490 ± 5.702
8500
8000
7500
7000
6500

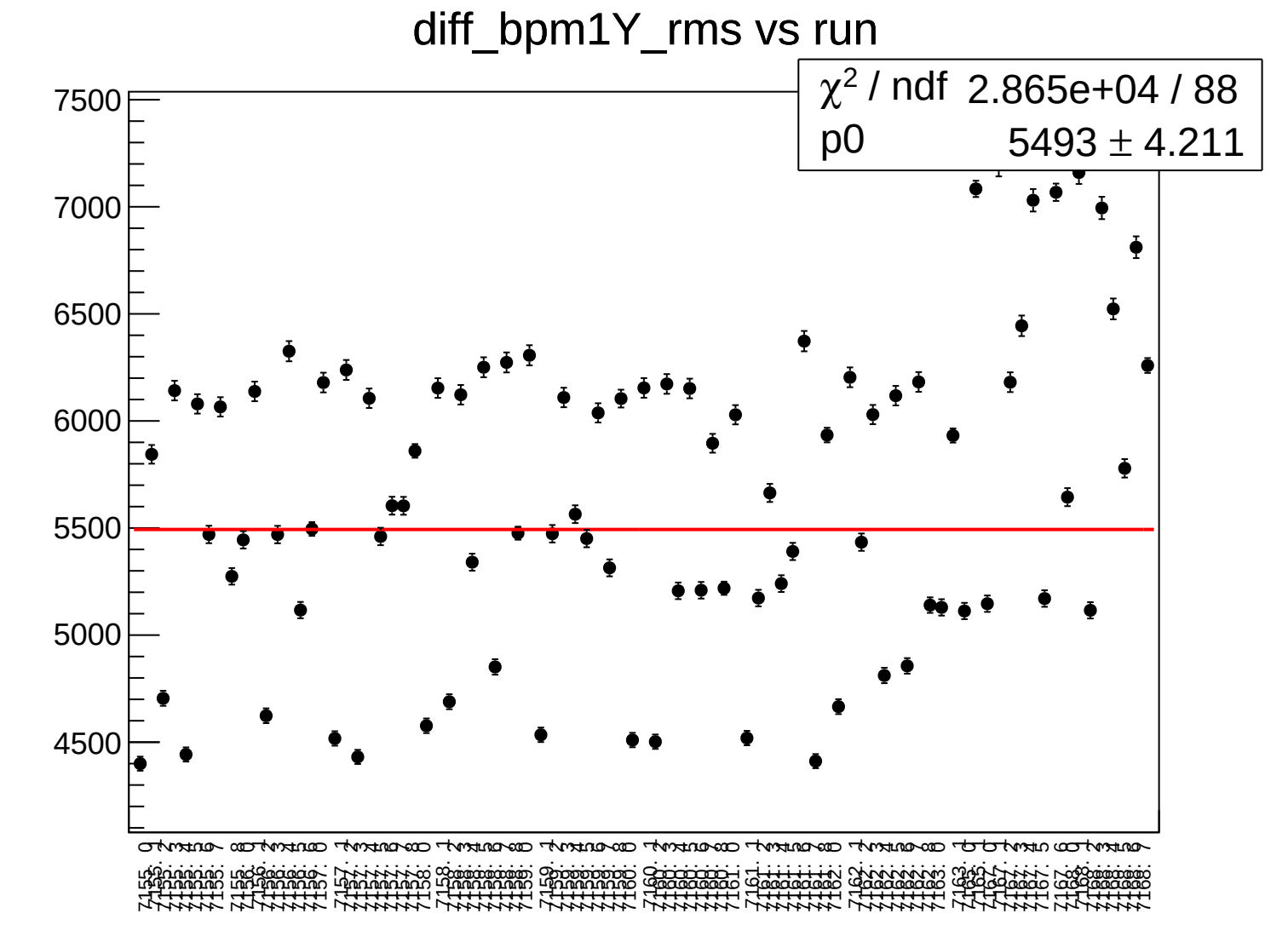

diff_bpm1X_mean vs run
χ² / ndf 66.57 / 88
p0 9.146 ± 9.255
pull
Entries 89
Mean −53.52
Std Dev 0

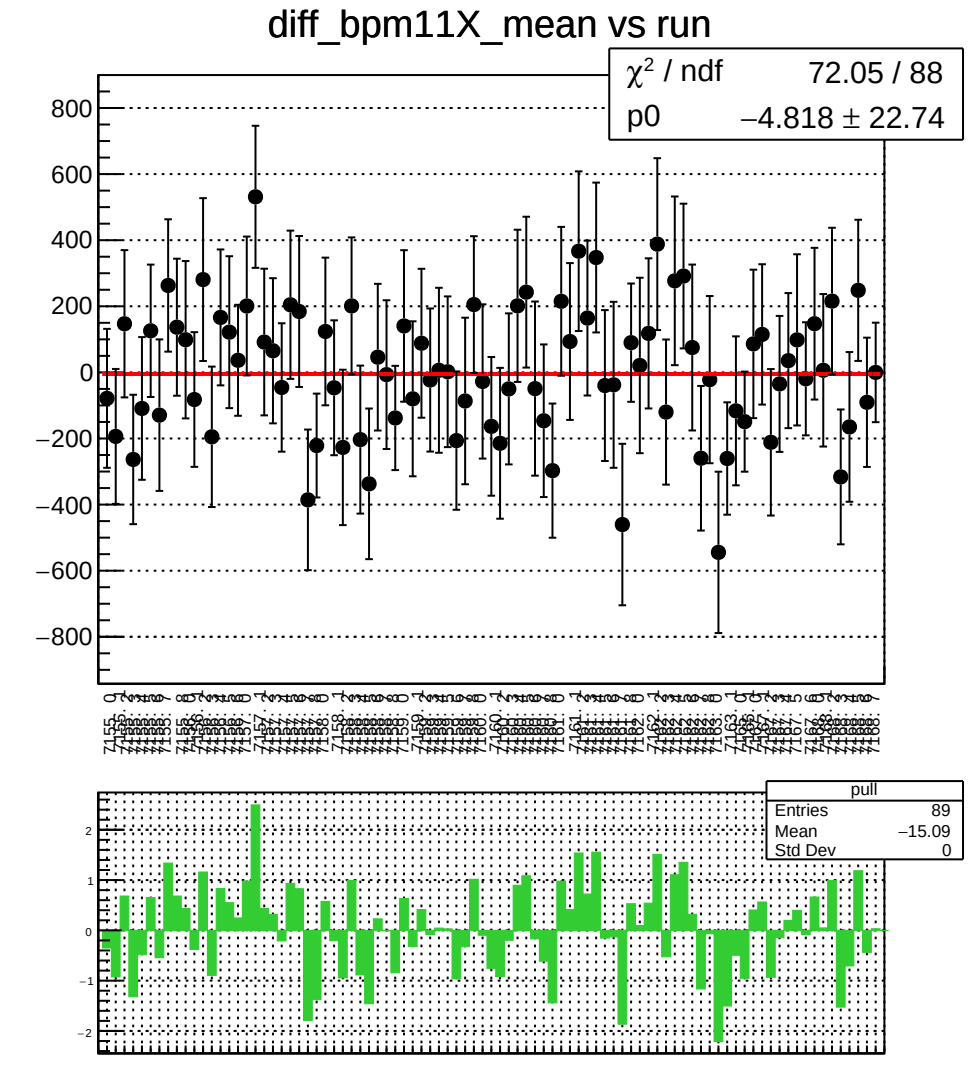

pull1D
Entries 89
Mean 0.01035
Std Dev 0.8648

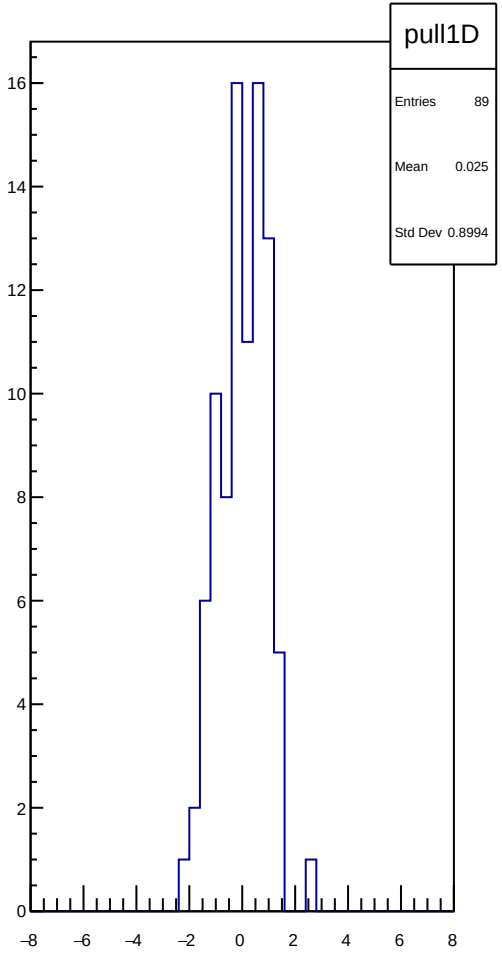

diff_bpm1X_rms vs run
χ^2 / ndf 5196 / 88
p0 8596 ± 6.545
10000
9500
9000
8500
8000
7500

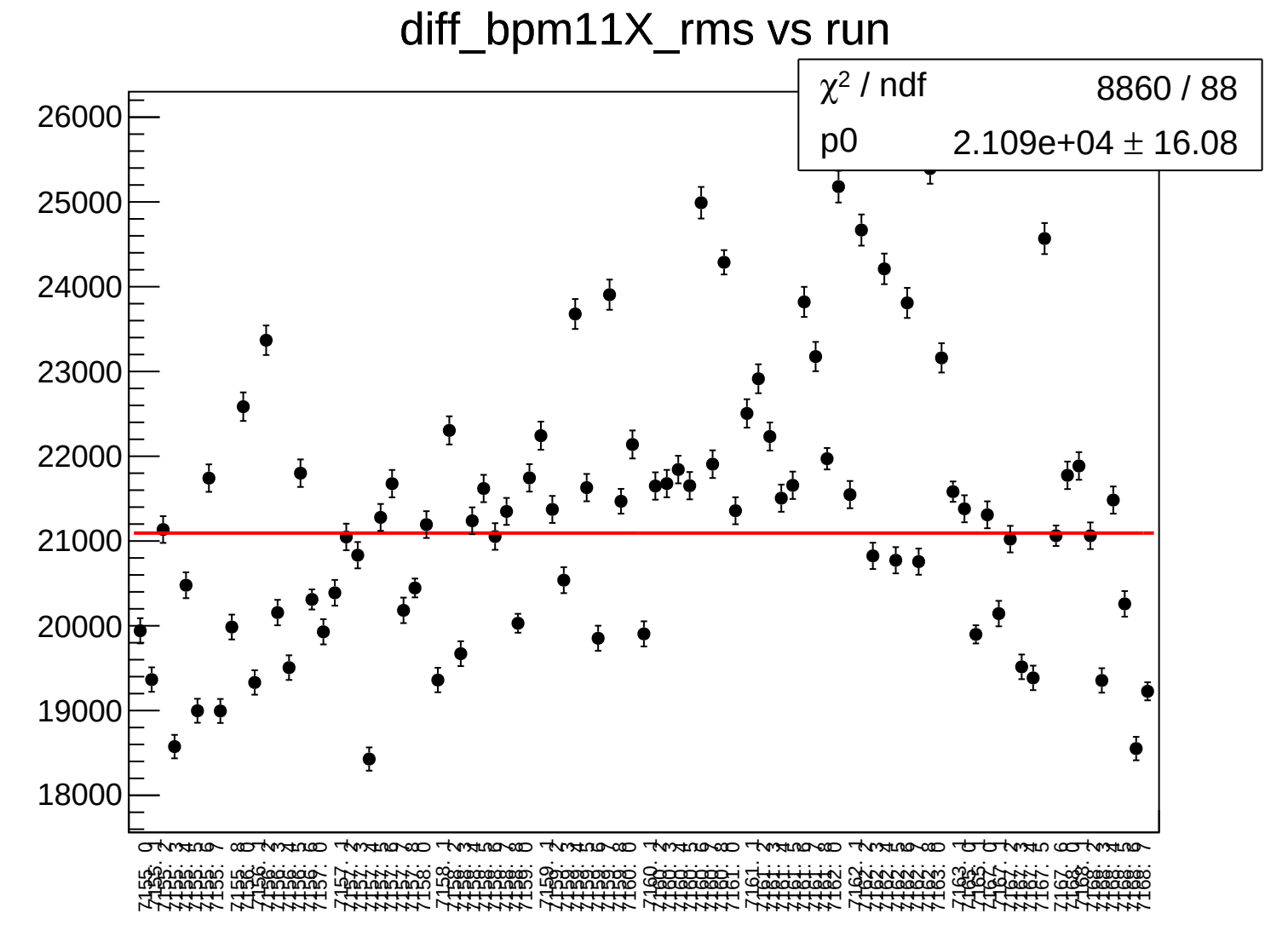

diff_bpm1Y_mean vs run
χ² / ndf 62.21 / 88
p0 −3.322 ± 5.956
pull
Entries 89
Mean 255.4
Std Dev 0

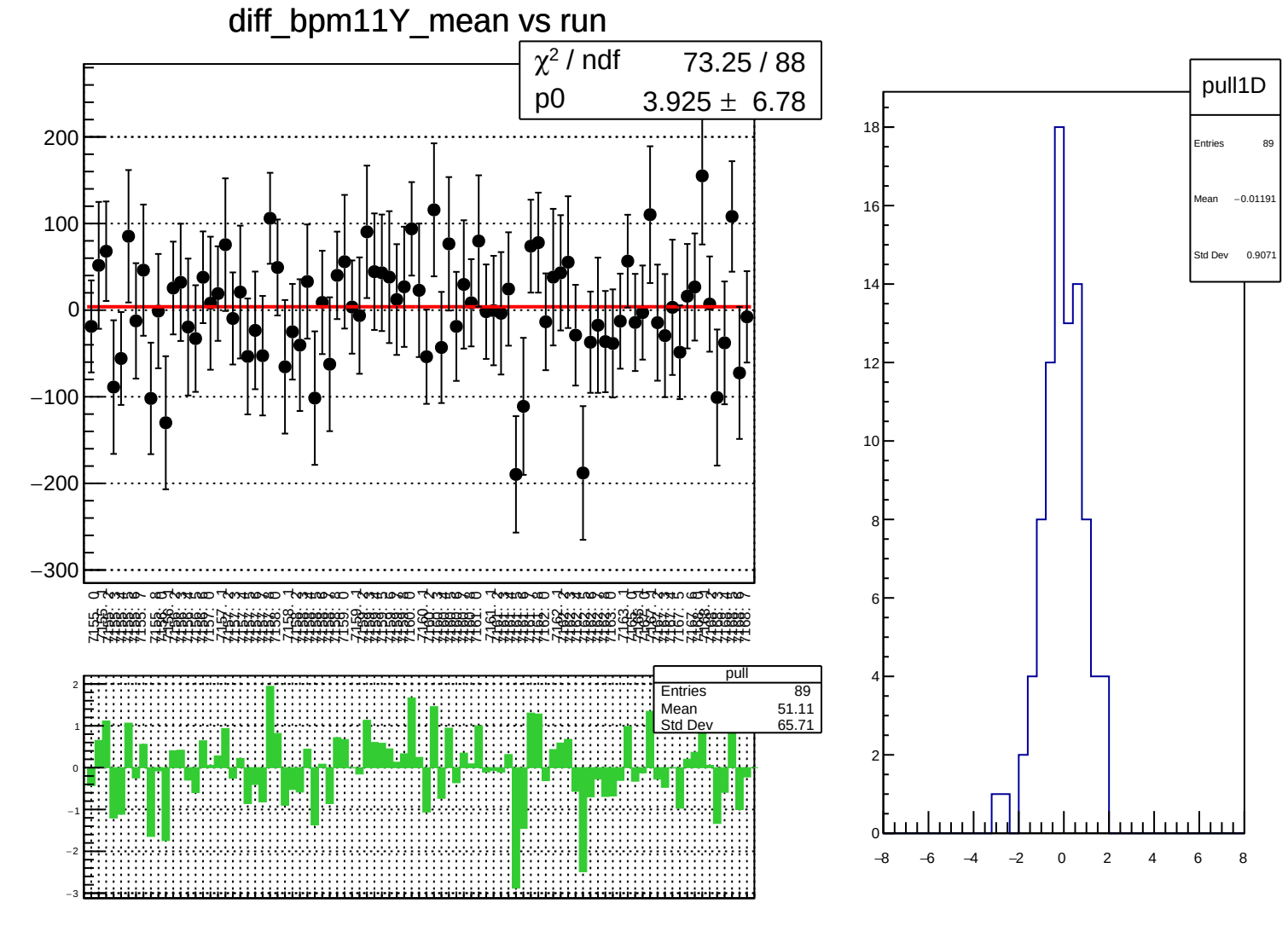

pull1D
Entries 89
Mean 0.006421
Std Dev 0.8361

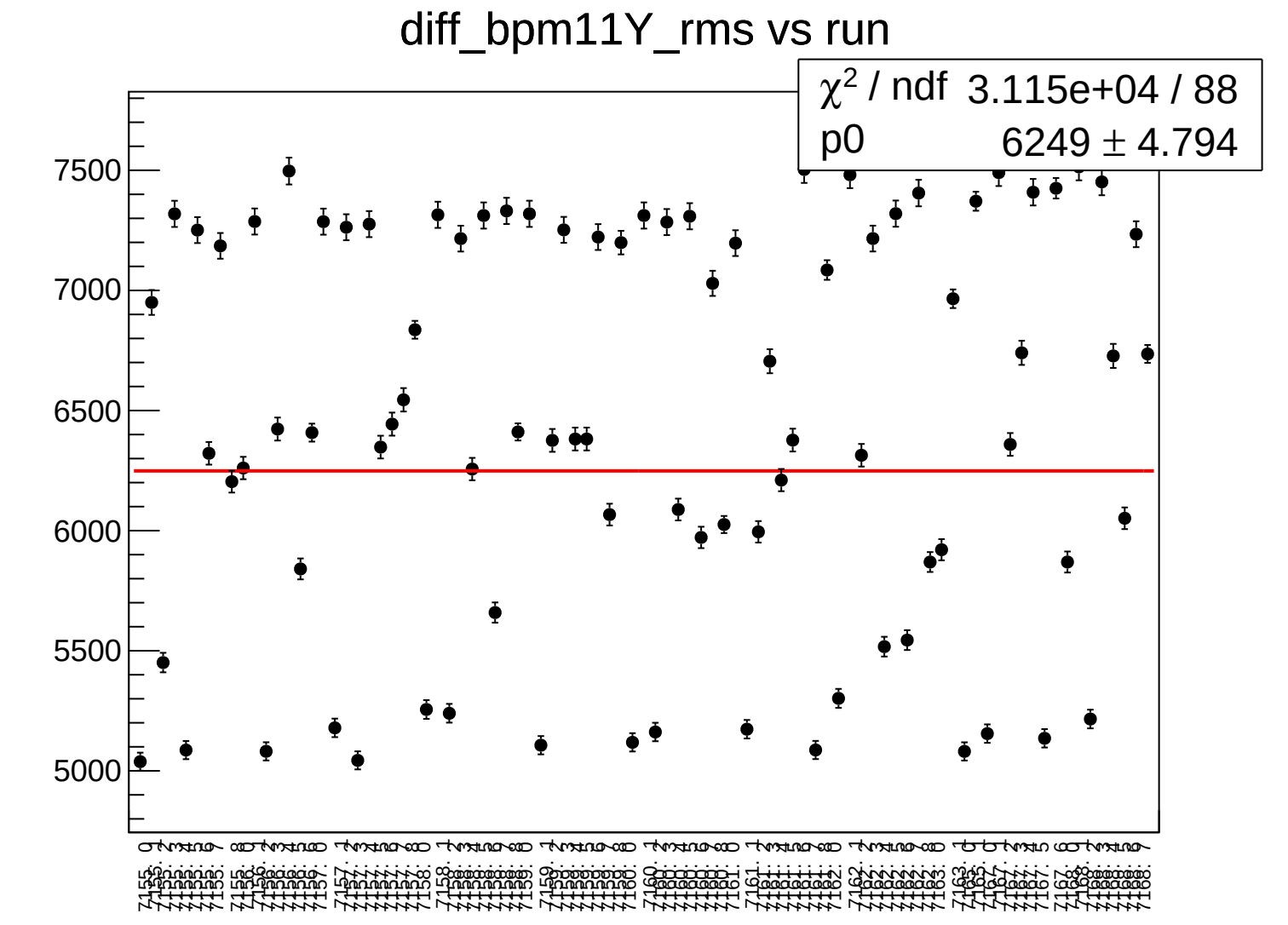

diff_bpm1Y_rms vs run
χ² / ndf 2.865e+04 / 88
p0 5493 ± 4.211
7500
7000
6500
6000
5500
5000
4500

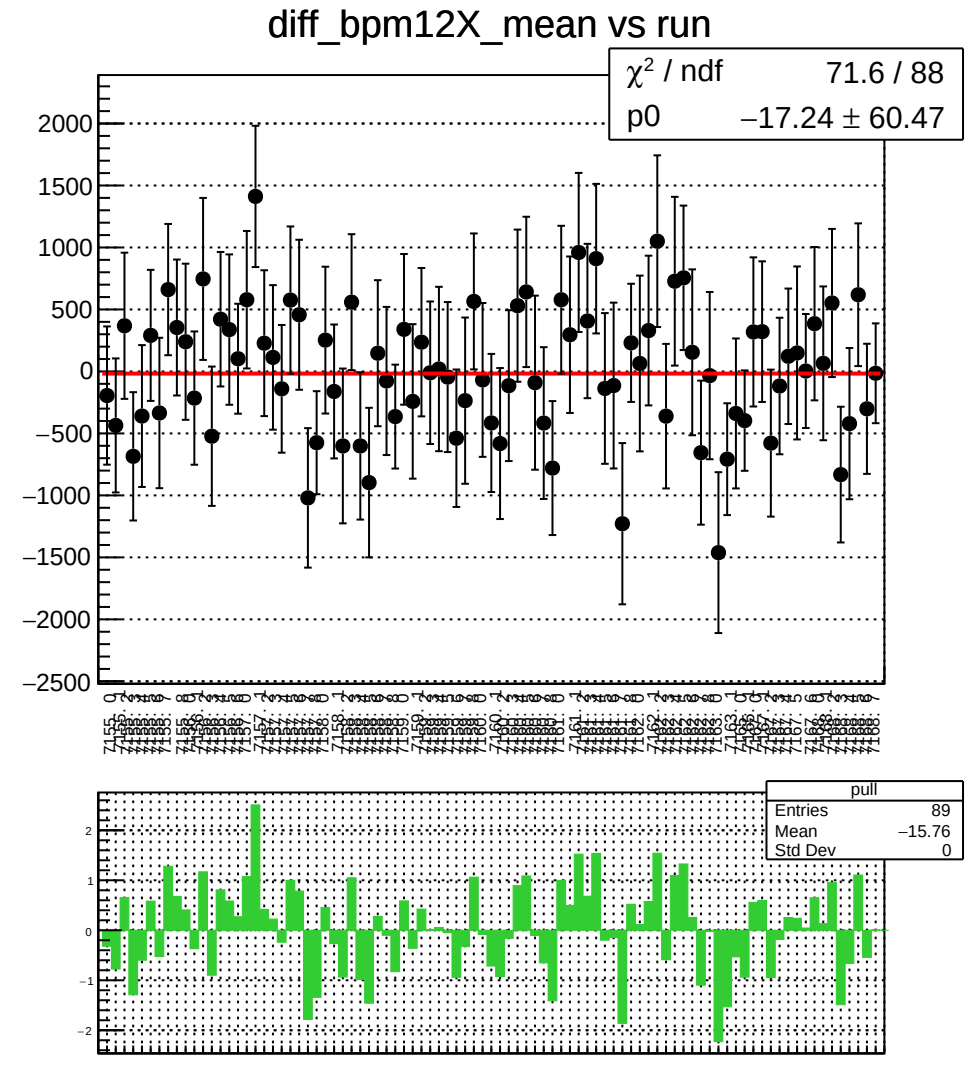

diff_bpm11X_mean vs run
χ² / ndf 72.05 / 88
p0 −4.818 ± 22.74
pull
Entries 89
Mean −15.09
Std Dev 0

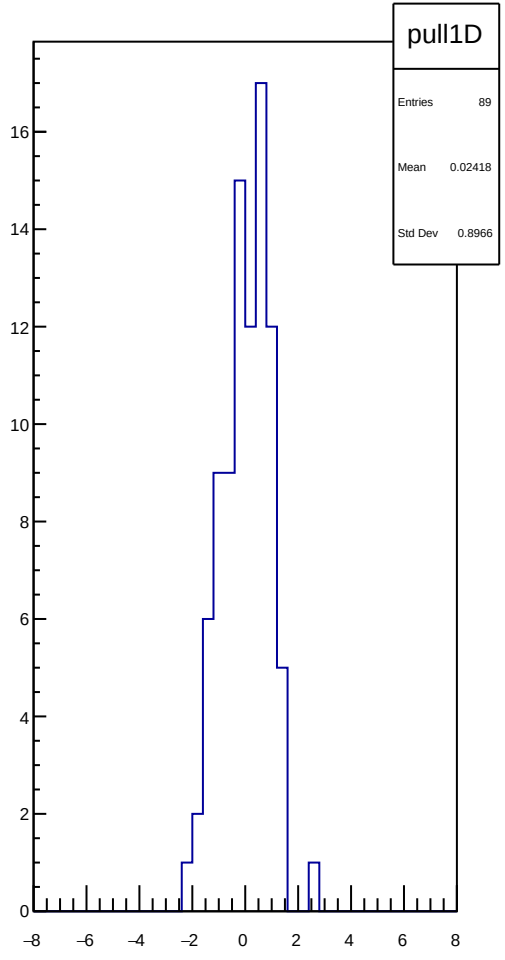

pull1D
Entries 89
Mean 0.025
Std Dev 0.8994

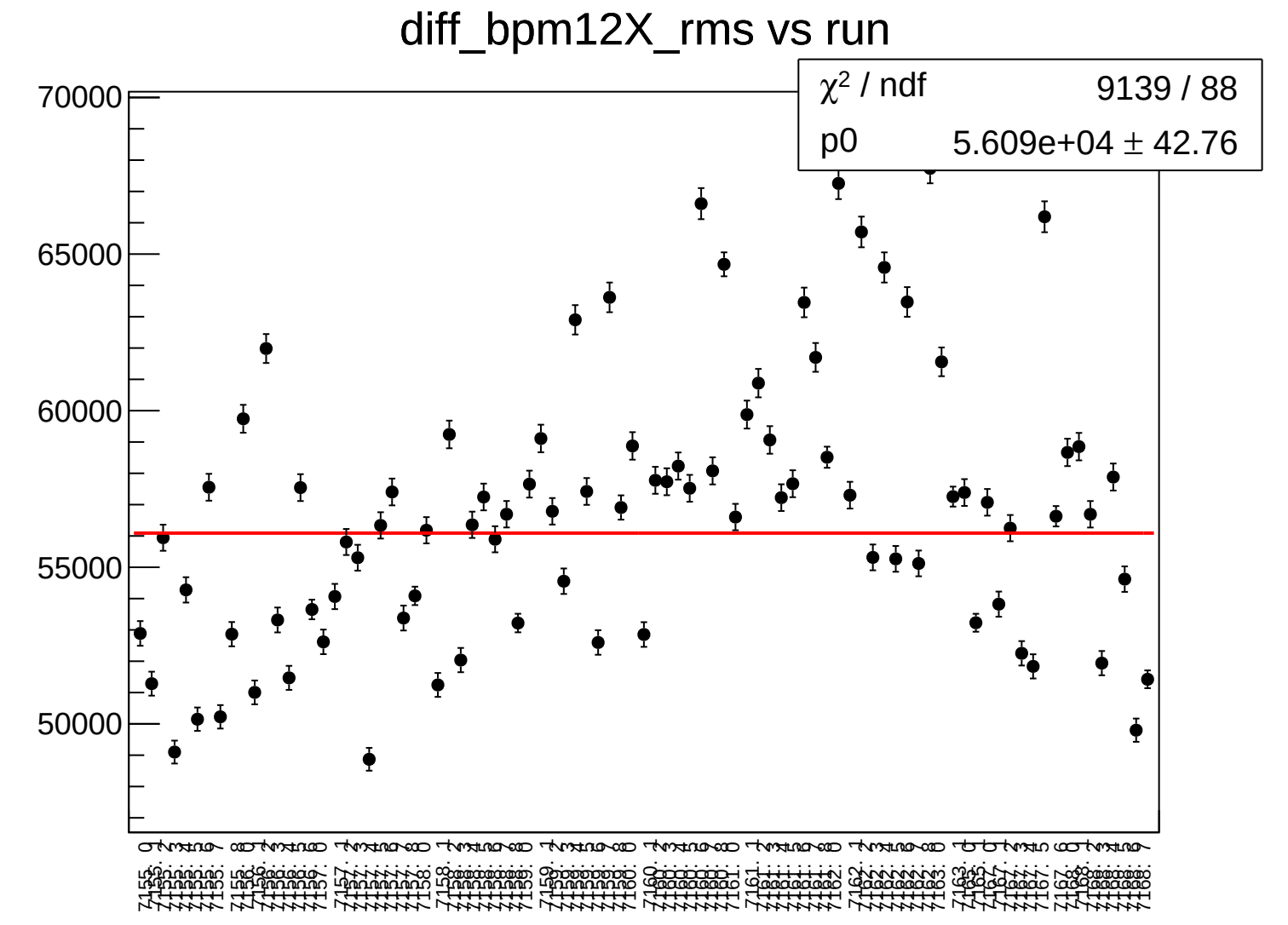

diff_bpm11X_rms vs run
χ² / ndf 8860 / 88
p0 2.109e+04 ± 16.08
26000
25000
24000
23000
22000
21000
20000
19000
18000

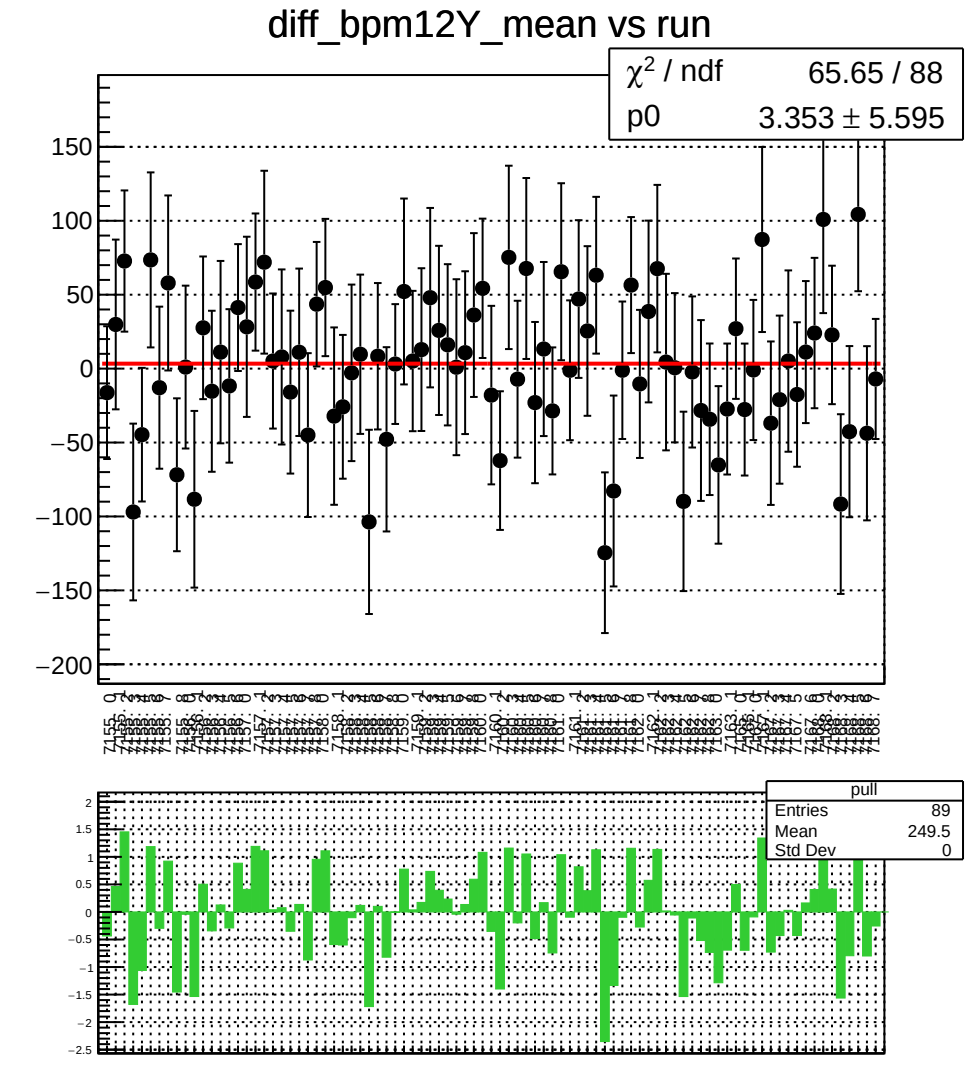

diff_bpm11Y_mean vs run
χ² / ndf 73.25 / 88
p0 3.925 ± 6.78
pull
Entries 89
Mean 51.11
Std Dev 65.71
pull1D
Entries 89
Mean −0.01191
Std Dev 0.9071

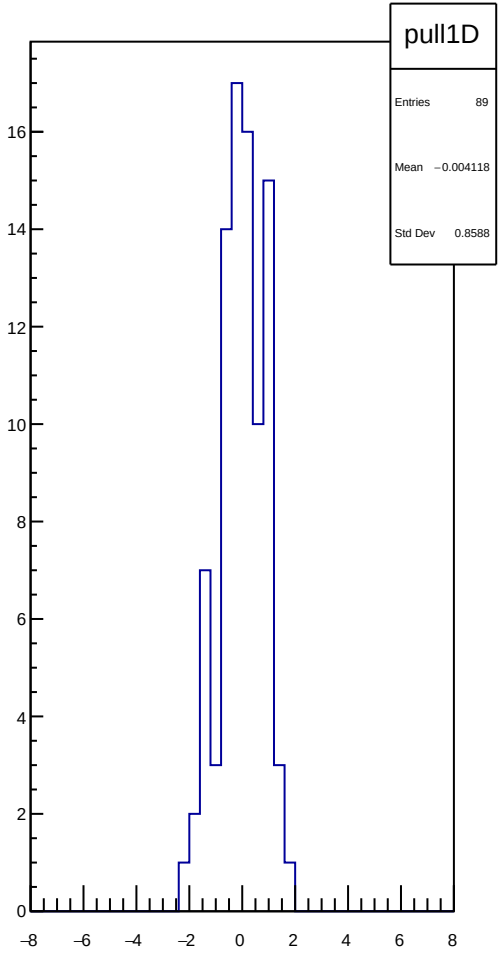

diff_bpm11Y_rms vs run
χ² / ndf 3.115e+04 / 88
p0 6249 ± 4.794
7500
7000
6500
6000
5500
5000

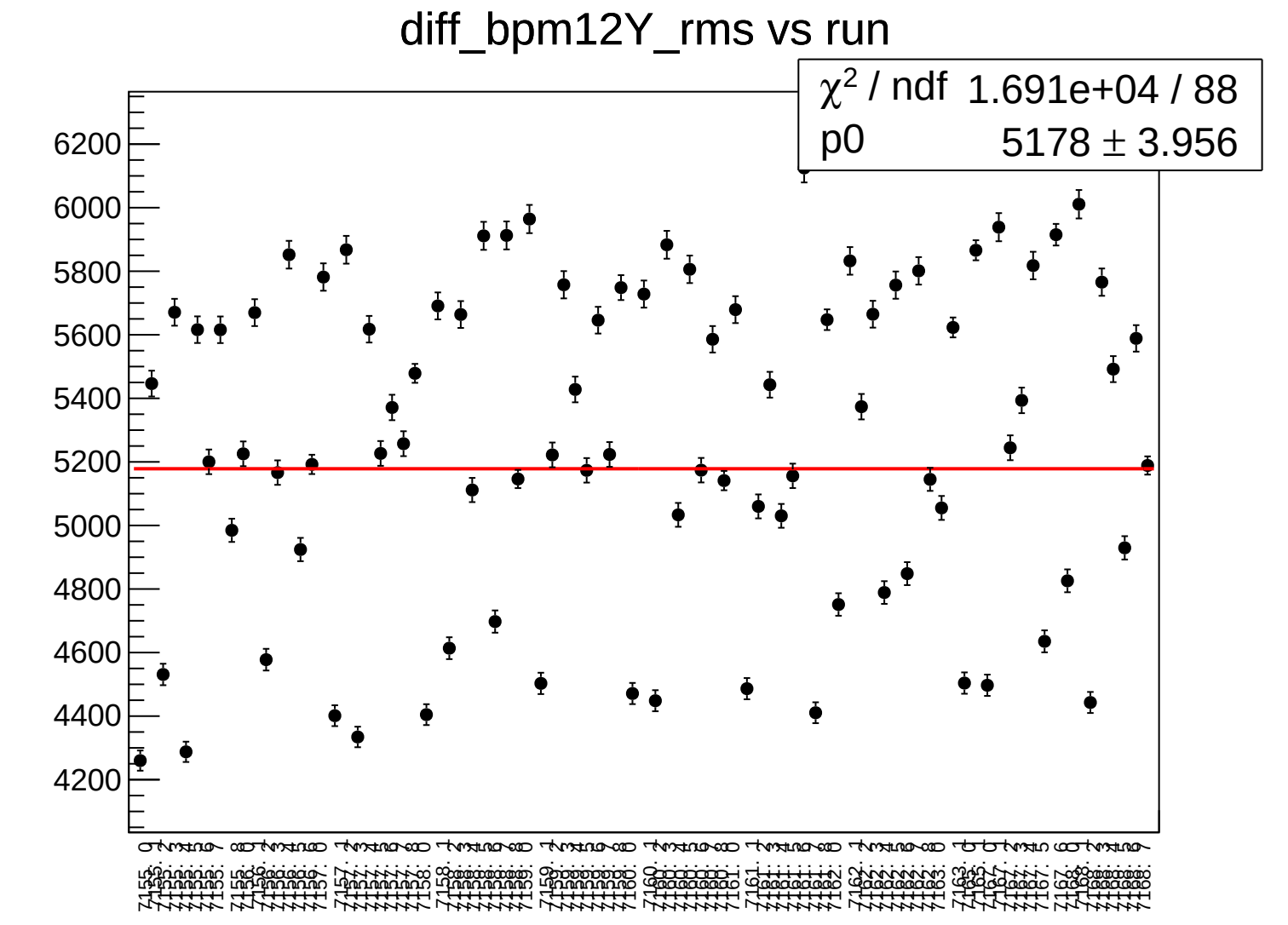

diff_bpm12X_mean vs run
χ² / ndf 71.6 / 88
p0 −17.24 ± 60.47
pull
Entries 89
Mean −15.76
Std Dev 0

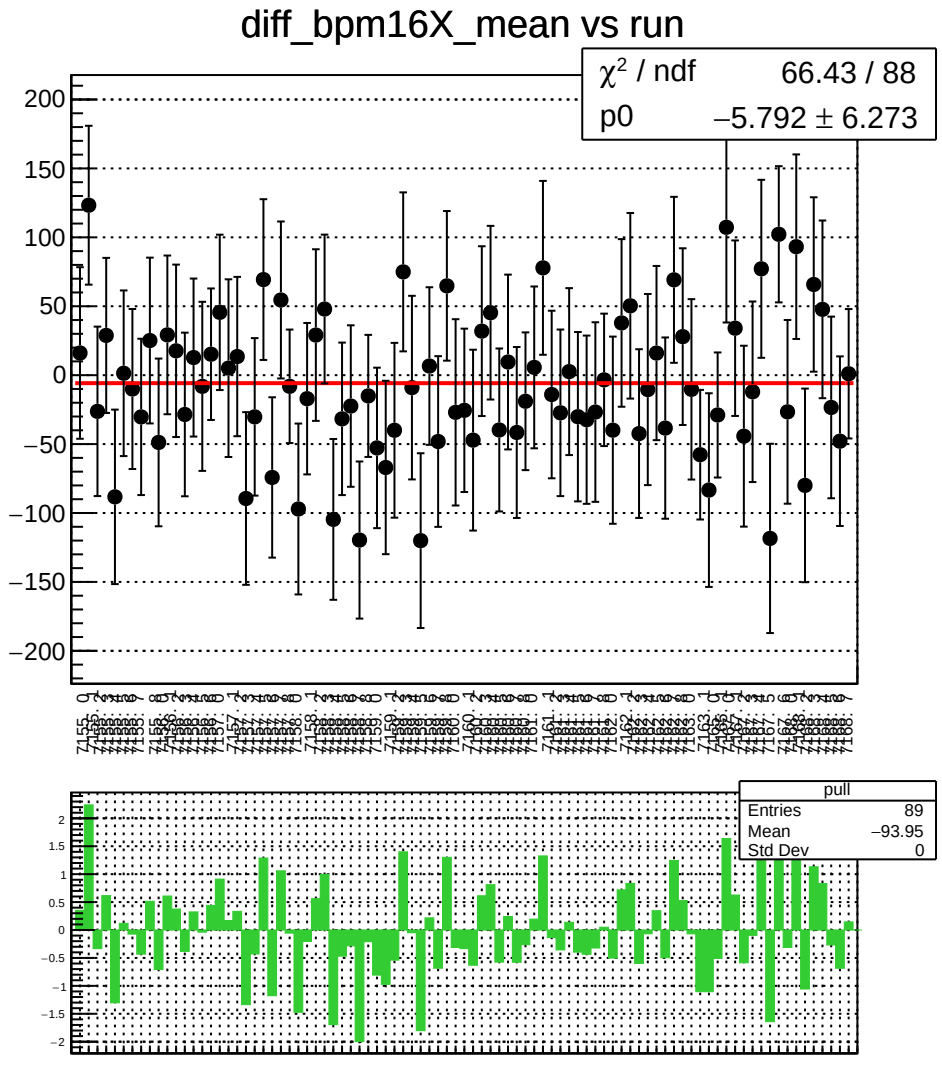

pull1D
Entries 89
Mean 0.02418
Std Dev 0.8966

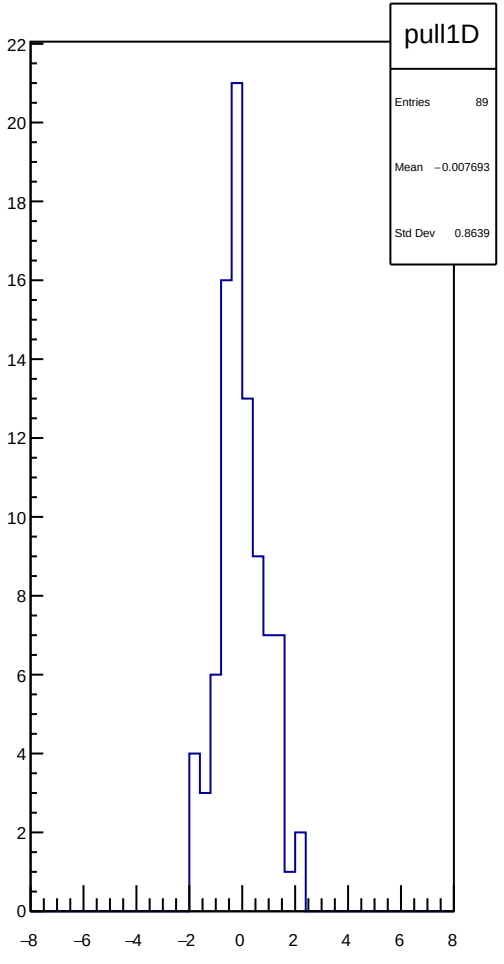

diff_bpm12X_rms vs run
χ^2 / ndf 9139 / 88
p0 5.609e+04 ± 42.76
70000
65000
60000
55000
50000

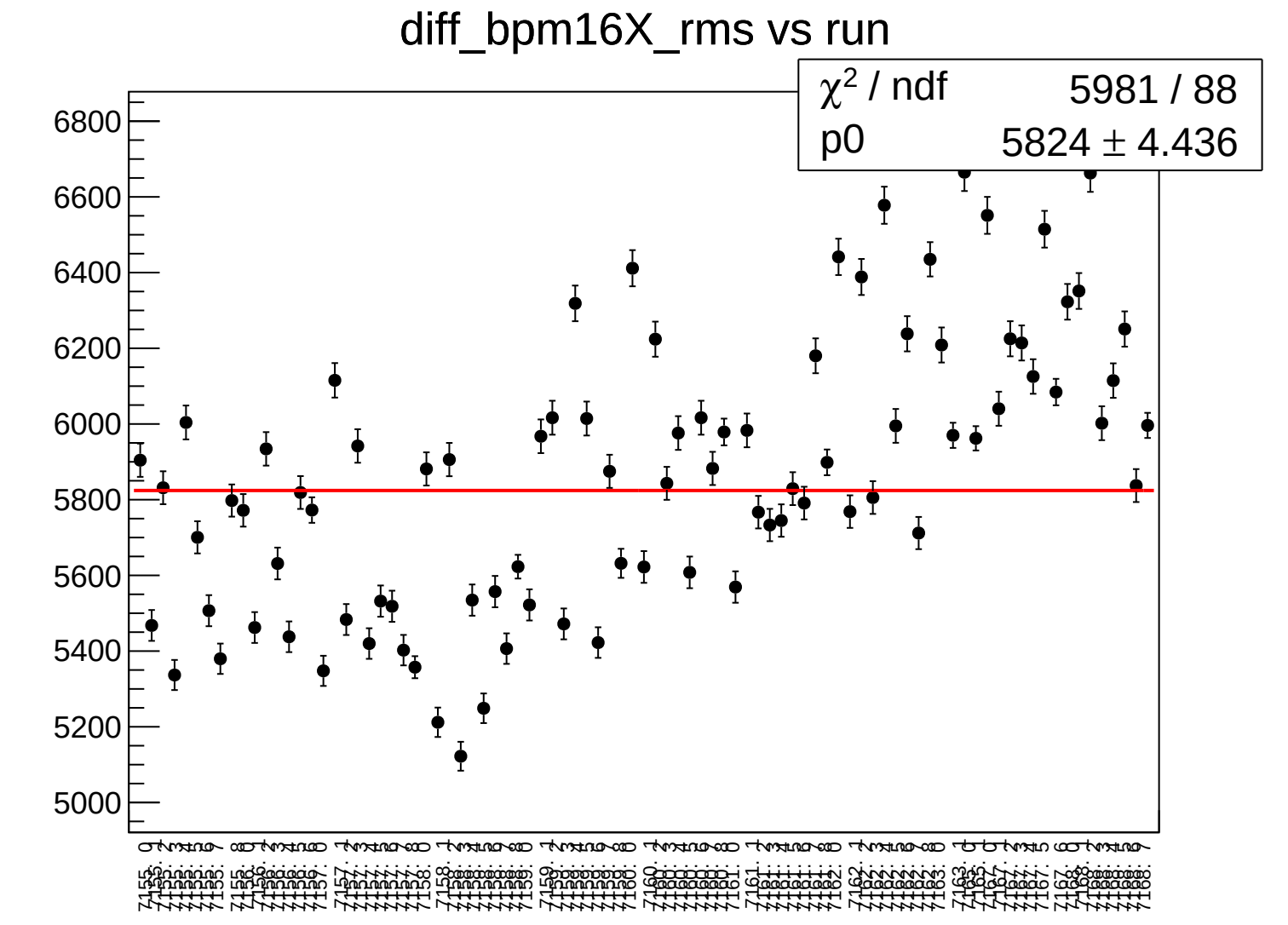

diff_bpm12Y_mean vs run
χ² / ndf 65.65 / 88
p0 3.353 ± 5.595
pull
Entries 89
Mean 249.5
Std Dev 0

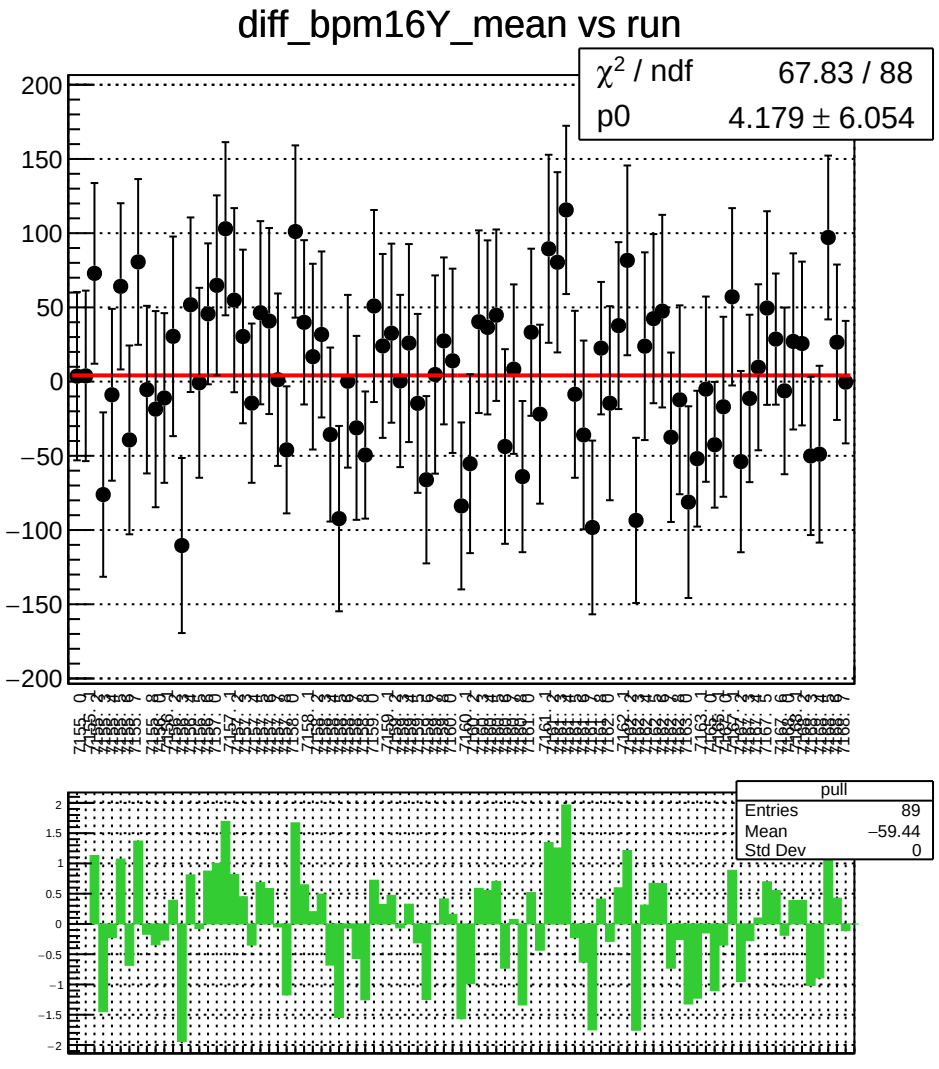

pull1D
Entries 89
Mean −0.004118
Std Dev 0.8588

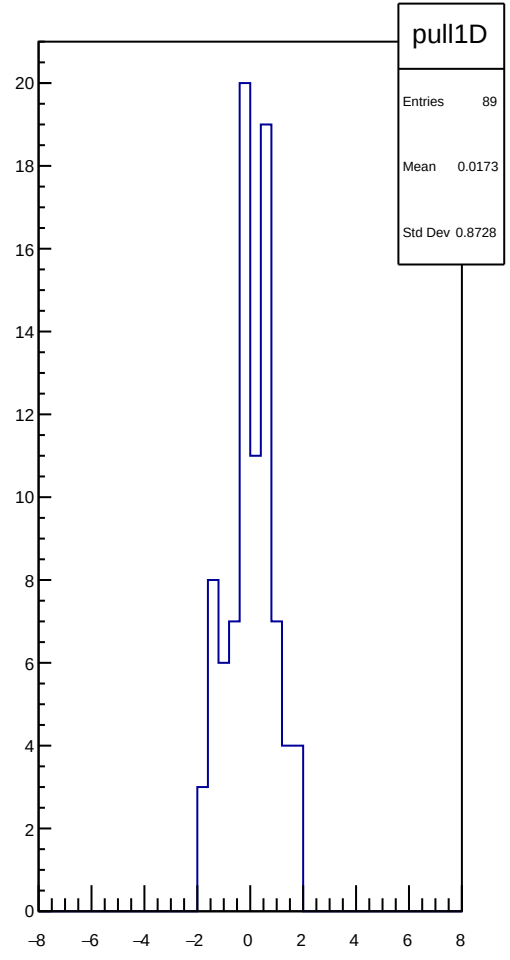

diff_bpm12Y_rms vs run
χ² / ndf 1.691e+04 / 88
p0 5178 ± 3.956
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

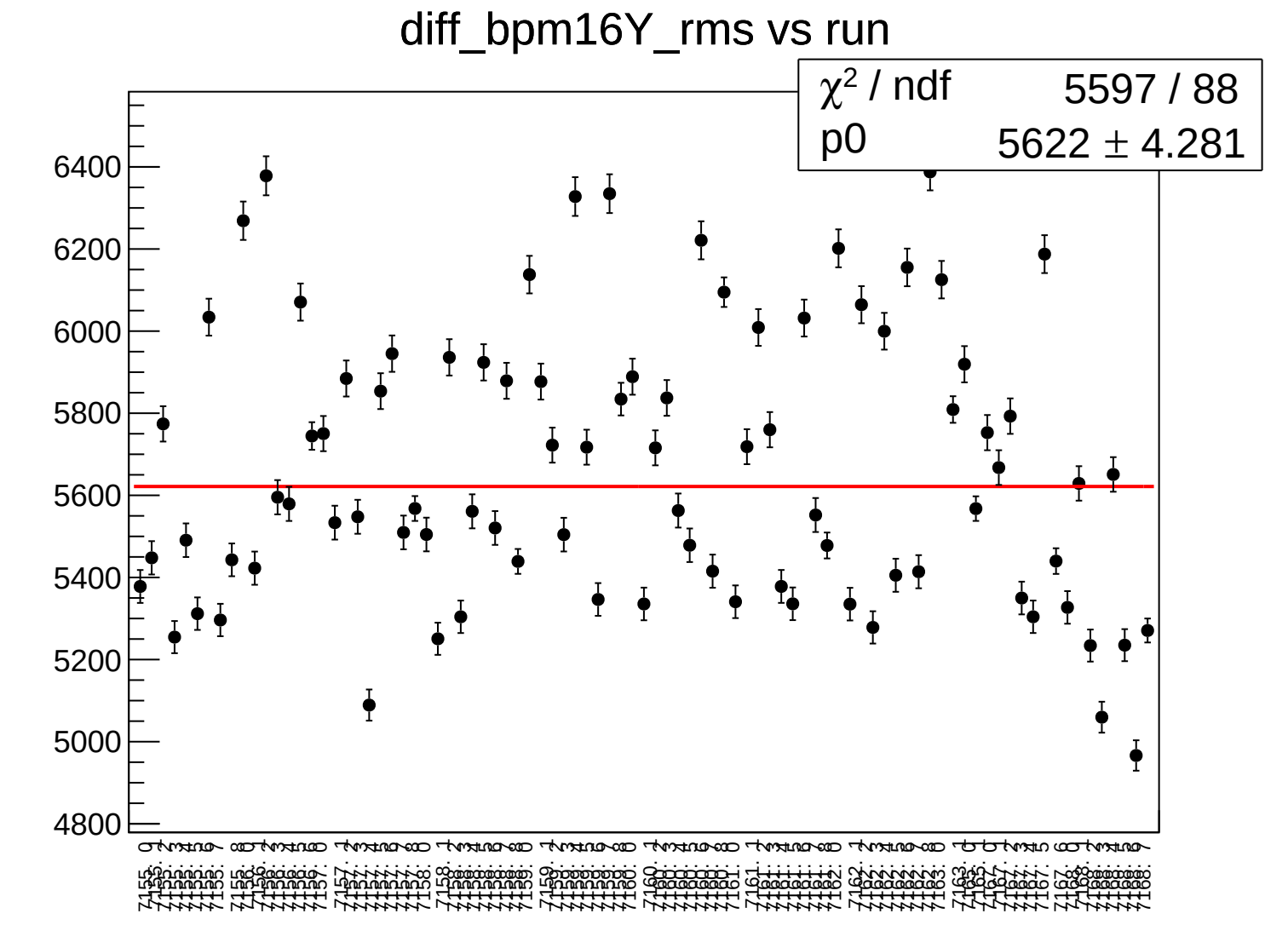

diff_bpm16X_mean vs run
χ² / ndf 66.43 / 88
p0 −5.792 ± 6.273
pull
Entries 89
Mean −93.95
Std Dev 0

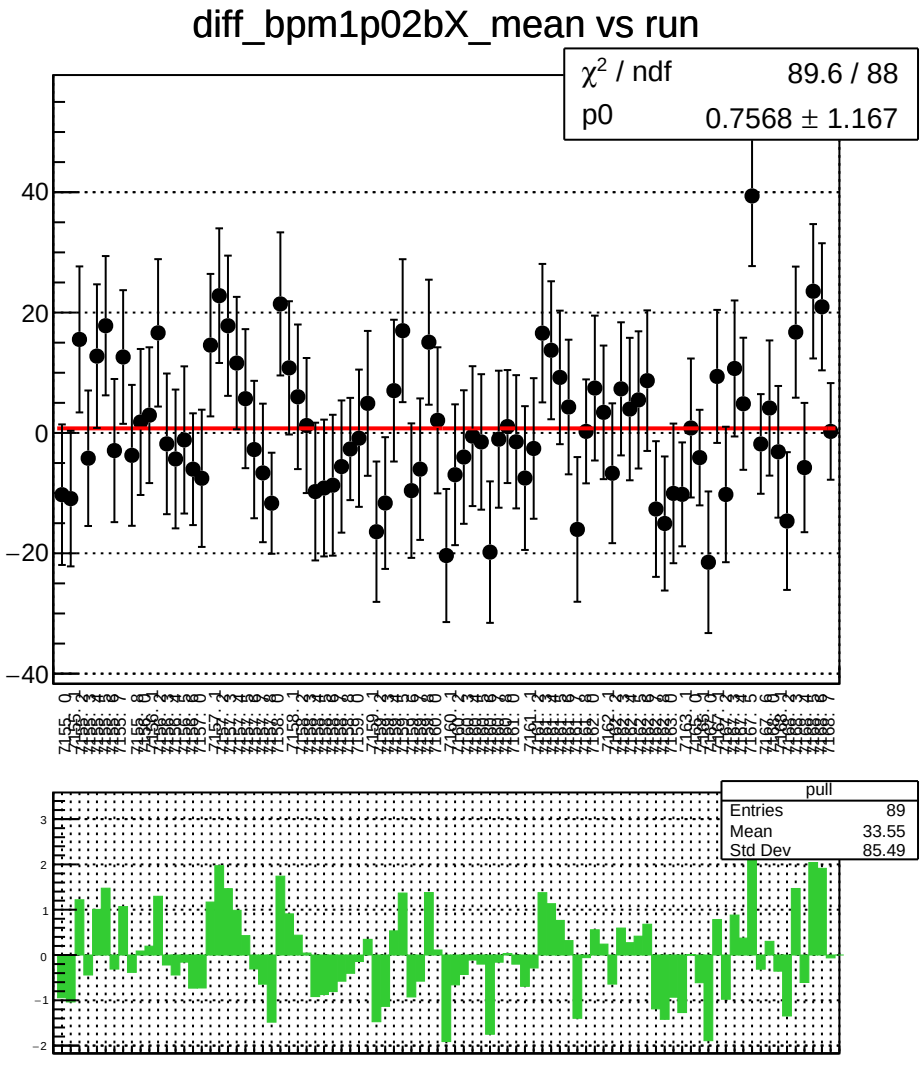

pull1D
Entries 89
Mean −0.007693
Std Dev 0.8639

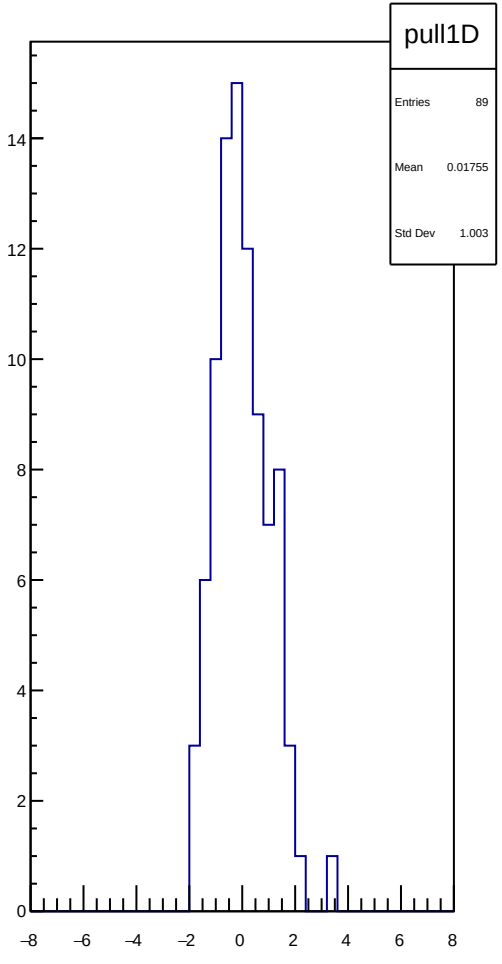

diff_bpm16X_rms vs run
χ² / ndf 5981 / 88
p0 5824 ± 4.436
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

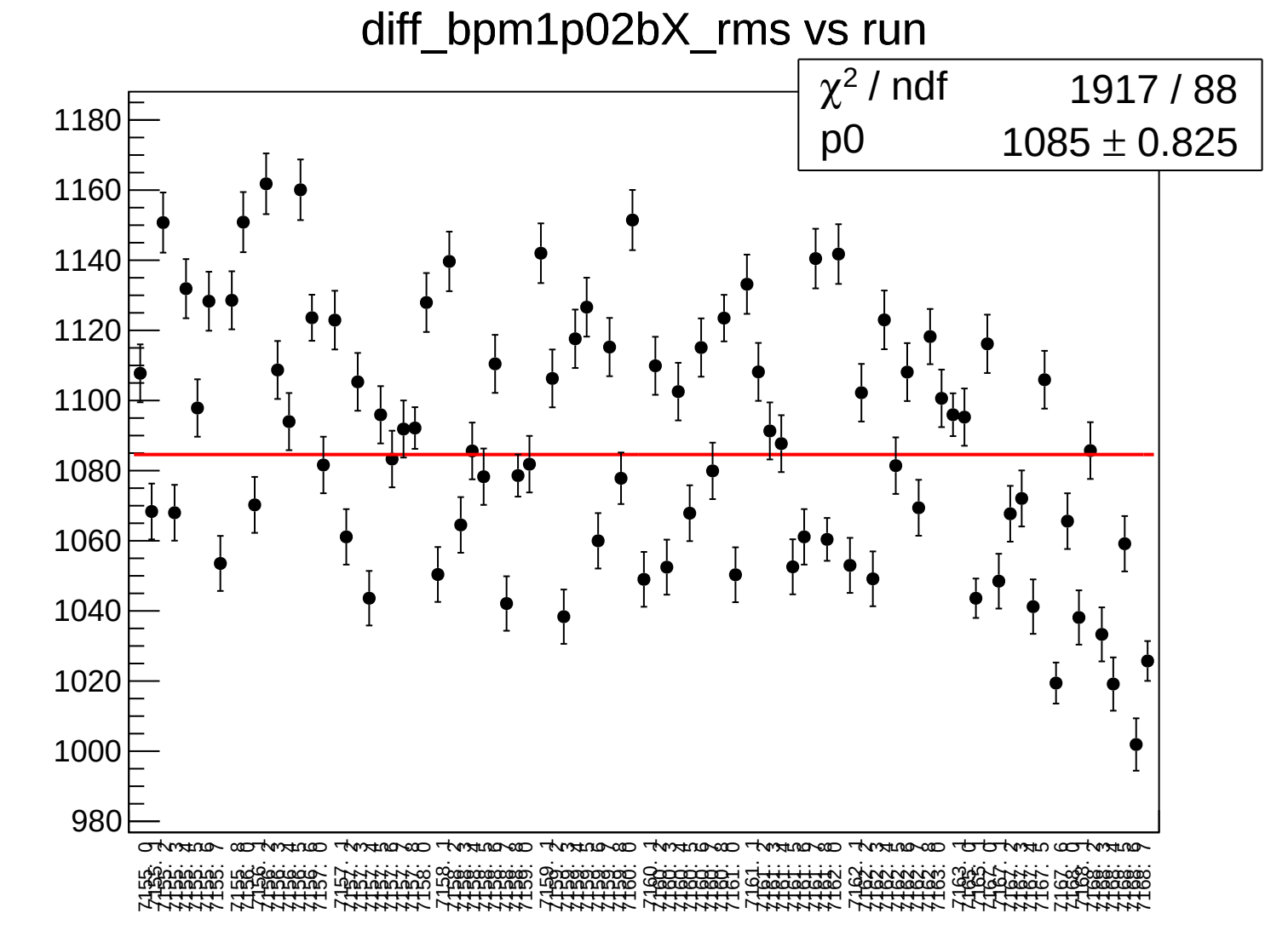

diff_bpm16Y_mean vs run
χ^2 / ndf 67.83 / 88
p0 4.179 ± 6.054
pull
Entries 89
Mean −59.44
Std Dev 0

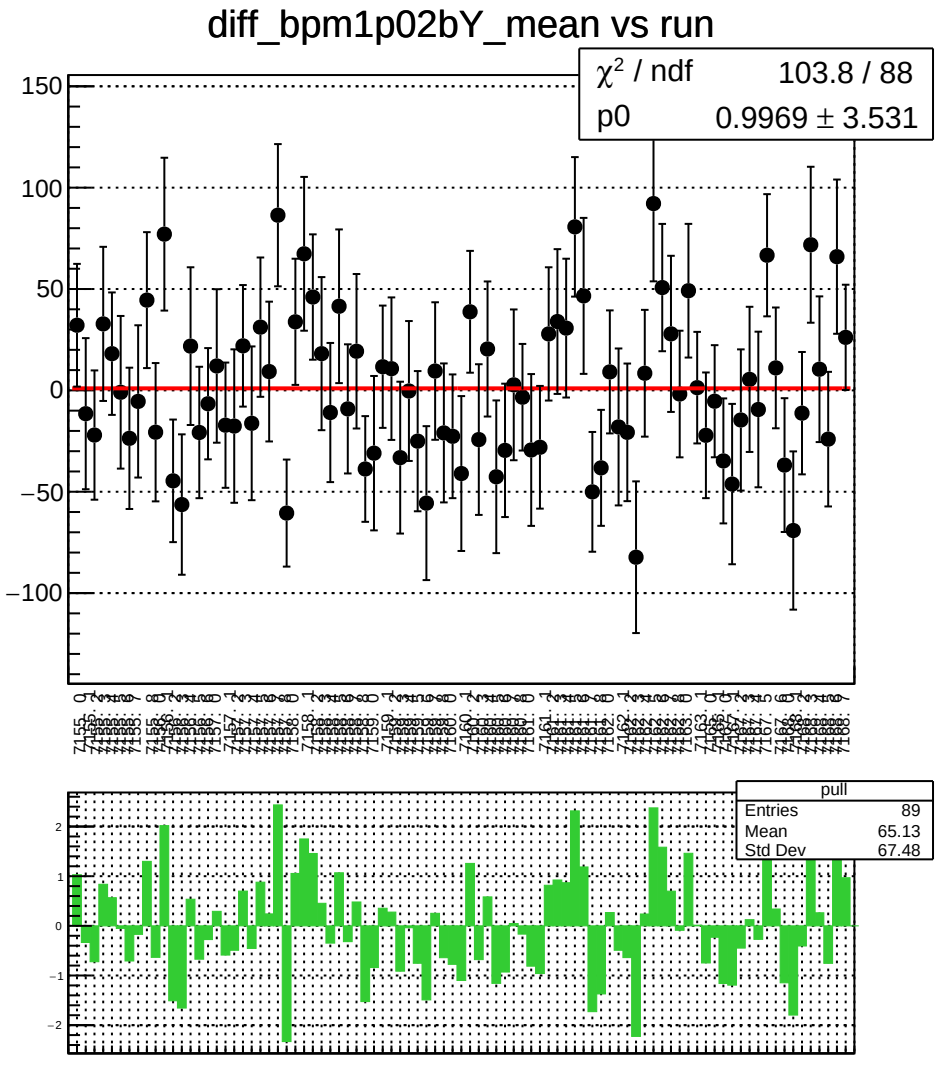

pull1D
Entries 89
Mean 0.0173
Std Dev 0.8728

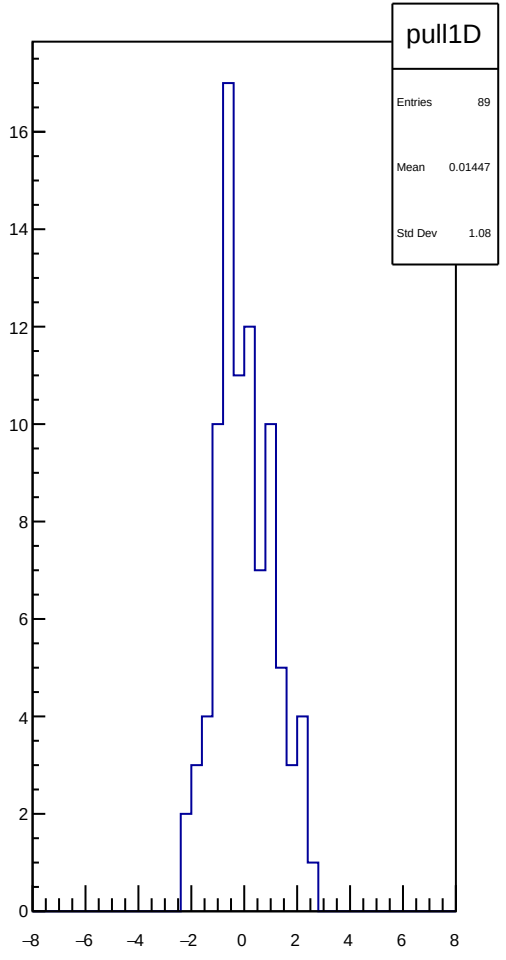

diff_bpm16Y_rms vs run
χ² / ndf 5597 / 88
p0 5622 ± 4.281
6400
6200
6000
5800
5600
5400
5200
5000
4800

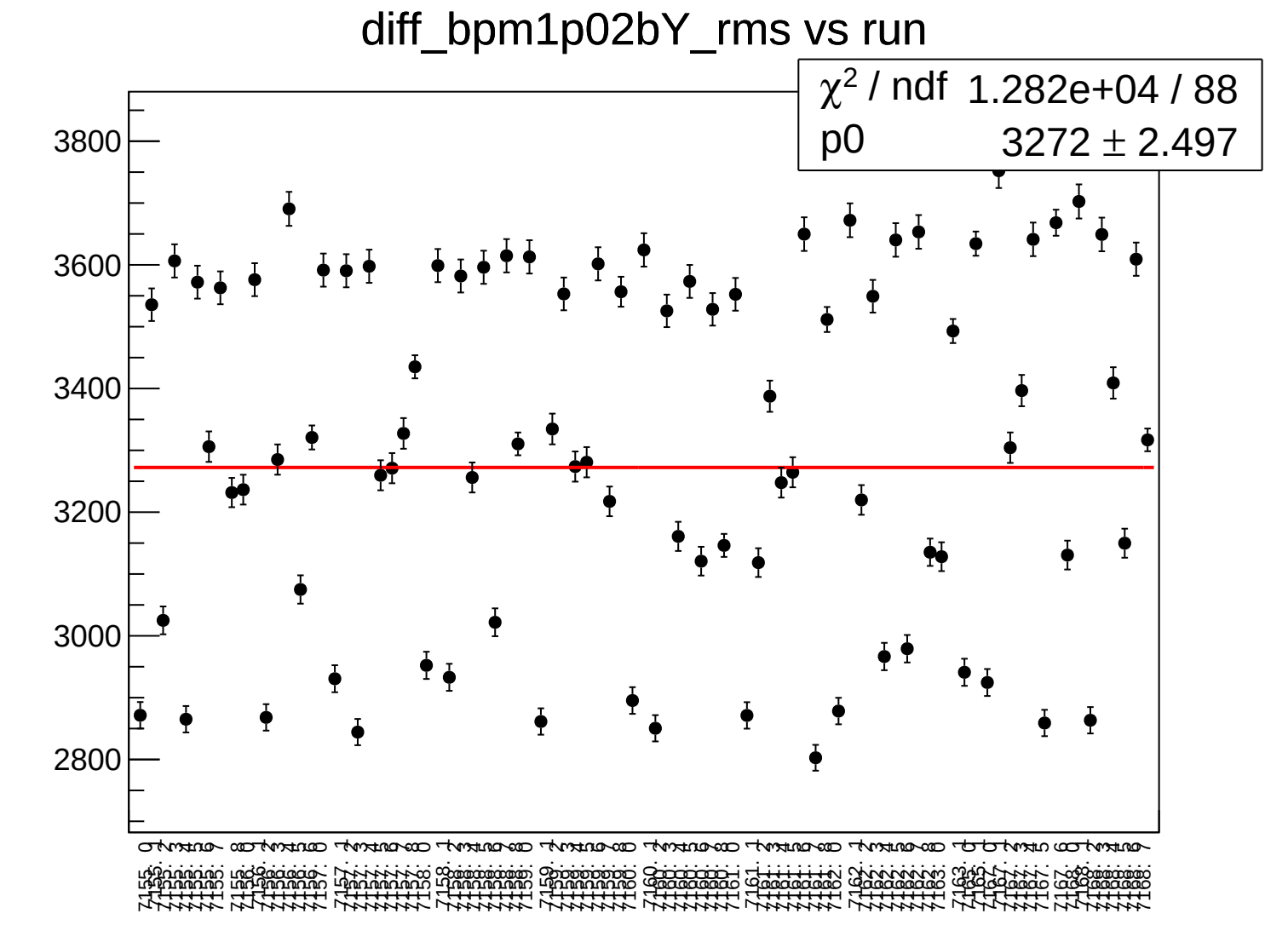

diff_bpm1p02bX_mean vs run
χ² / ndf 89.6 / 88
p0 0.7568 ± 1.167
pull
Entries 89
Mean 33.55
Std Dev 85.49

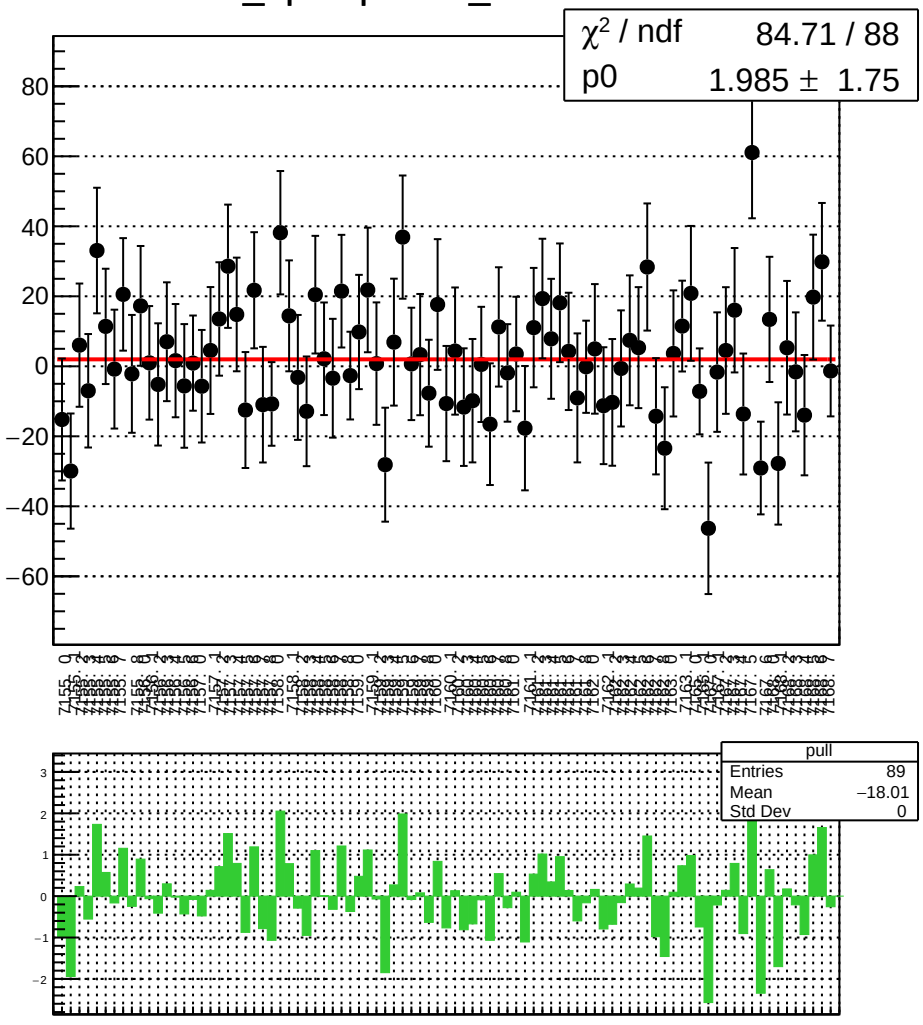

pull1D
Entries 89
Mean 0.01755
Std Dev 1.003

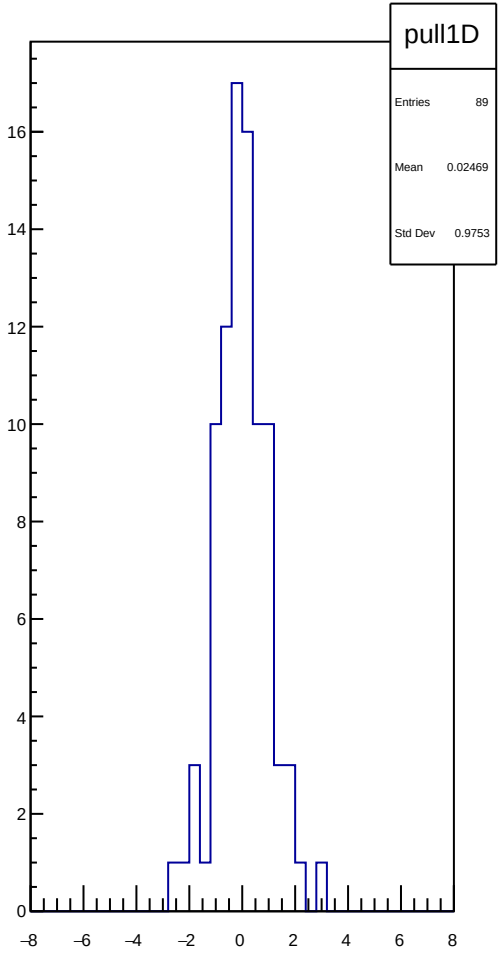

diff_bpm1p02bX_rms vs run
χ² / ndf 1917 / 88
p0 1085 ± 0.825
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

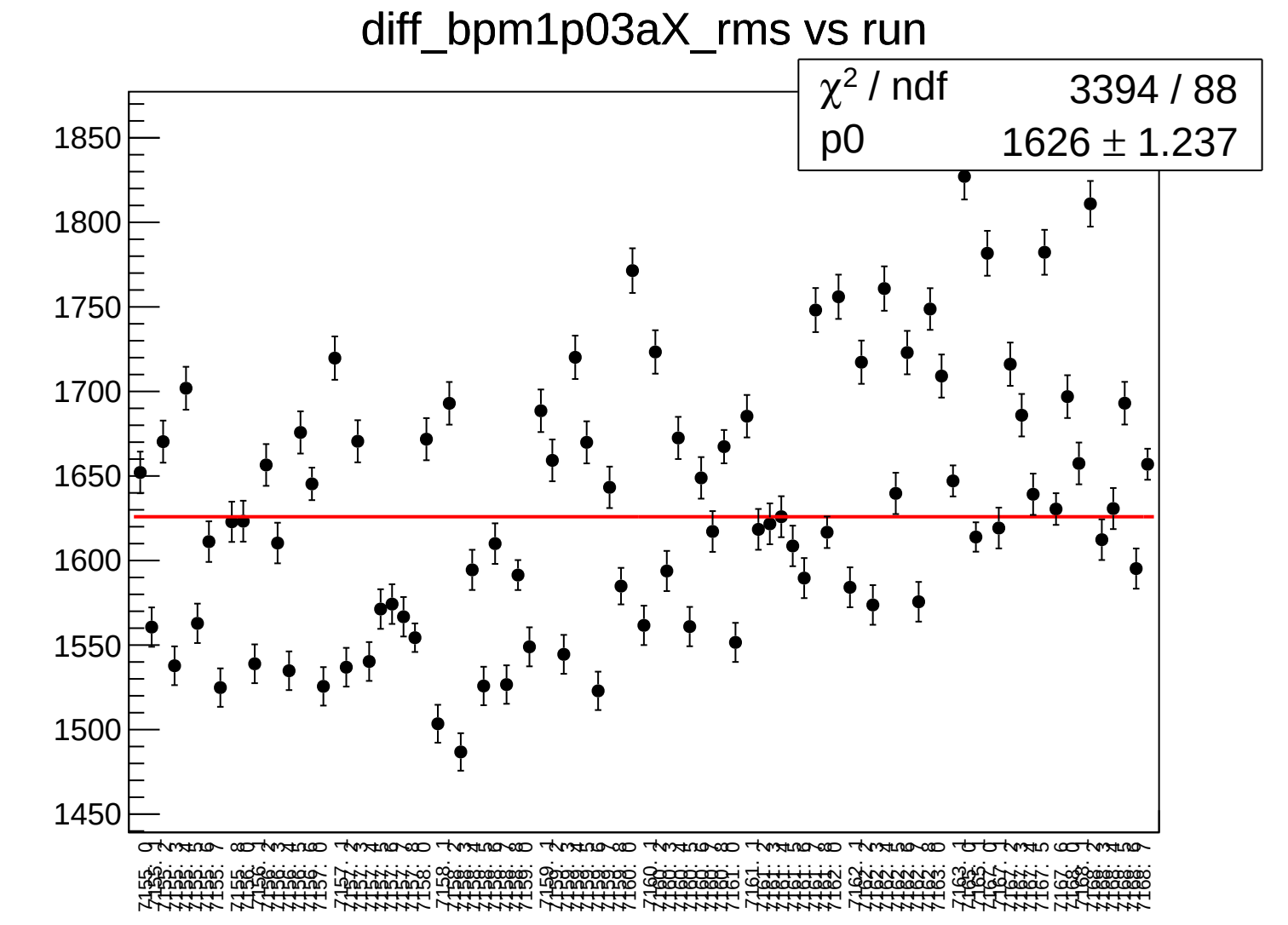

diff_bpm1p02bY_mean vs run
χ^2 / ndf 103.8 / 88
p0 0.9969 ± 3.531
150
100
50
0
−50
−100
pull
Entries 89
Mean 65.13
Std Dev 67.48
2
1
0
−1
−2

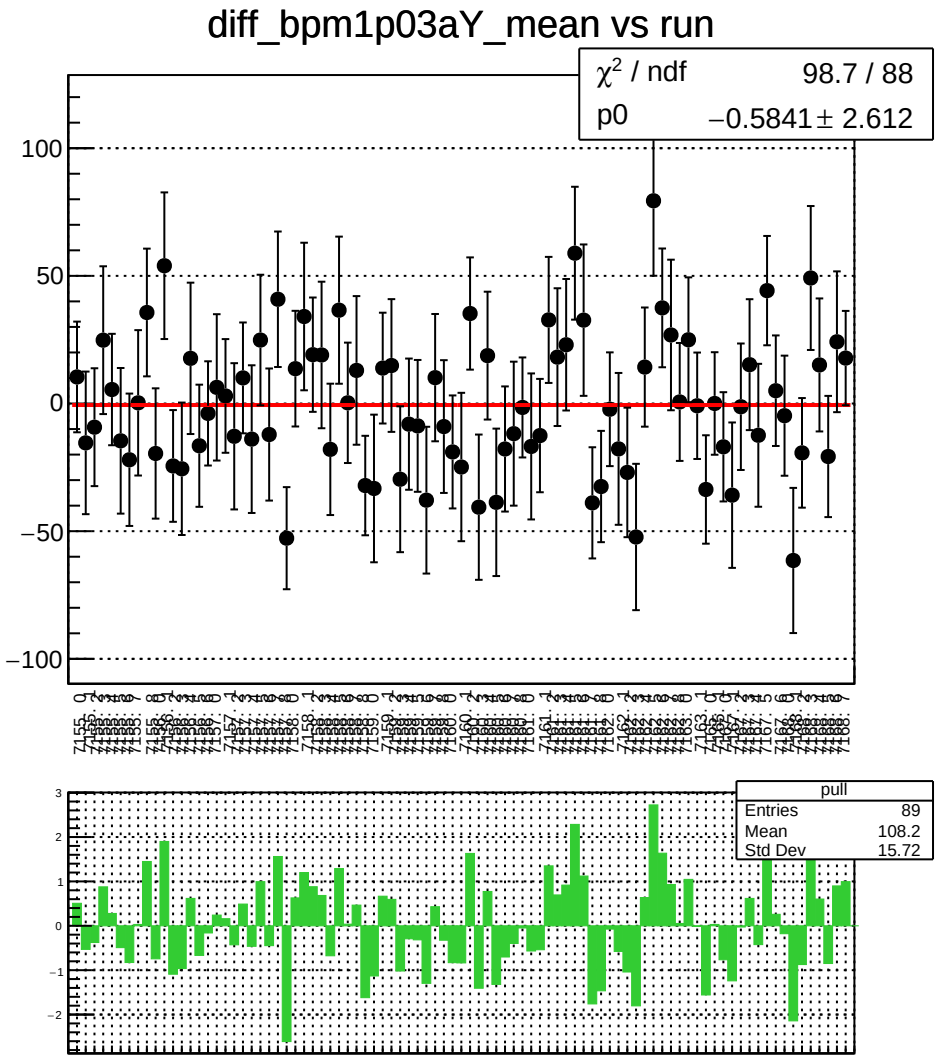

pull1D
Entries 89
Mean 0.01447
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

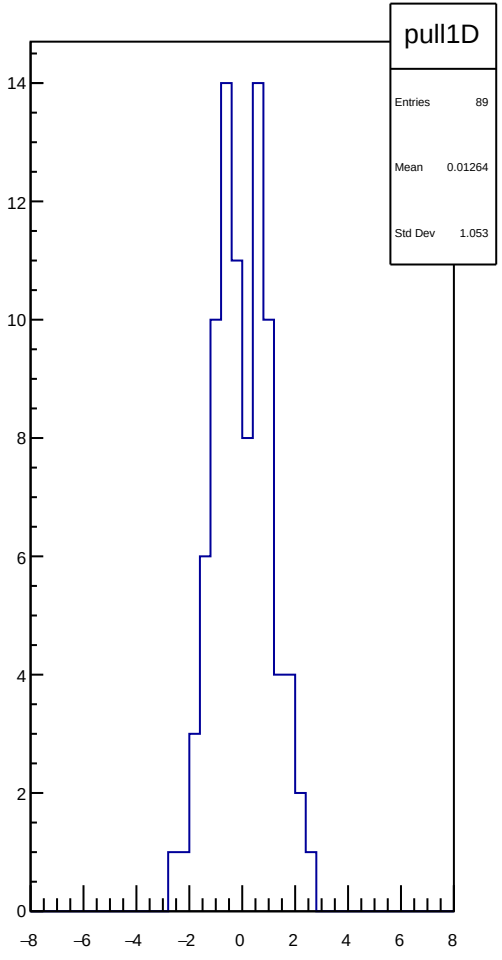

diff_bpm1p02bY_rms vs run
χ² / ndf 1.282e+04 / 88
p0 3272 ± 2.497
3800
3600
3400
3200
3000
2800

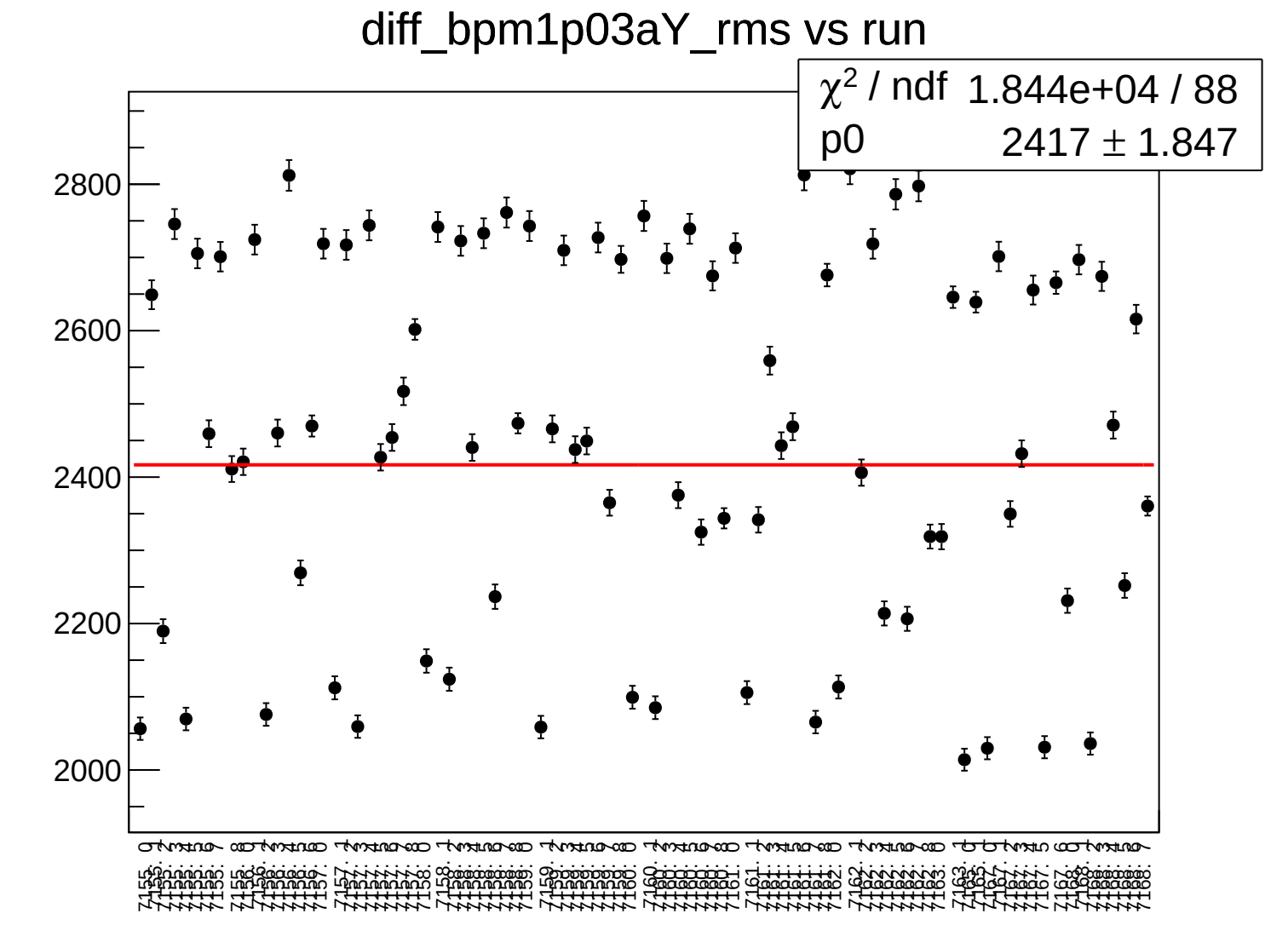

diff_bpm1p03aX_mean vs run
χ² / ndf 84.71 / 88
p0 1.985 ± 1.75
pull
Entries 89
Mean −18.01
Std Dev 0

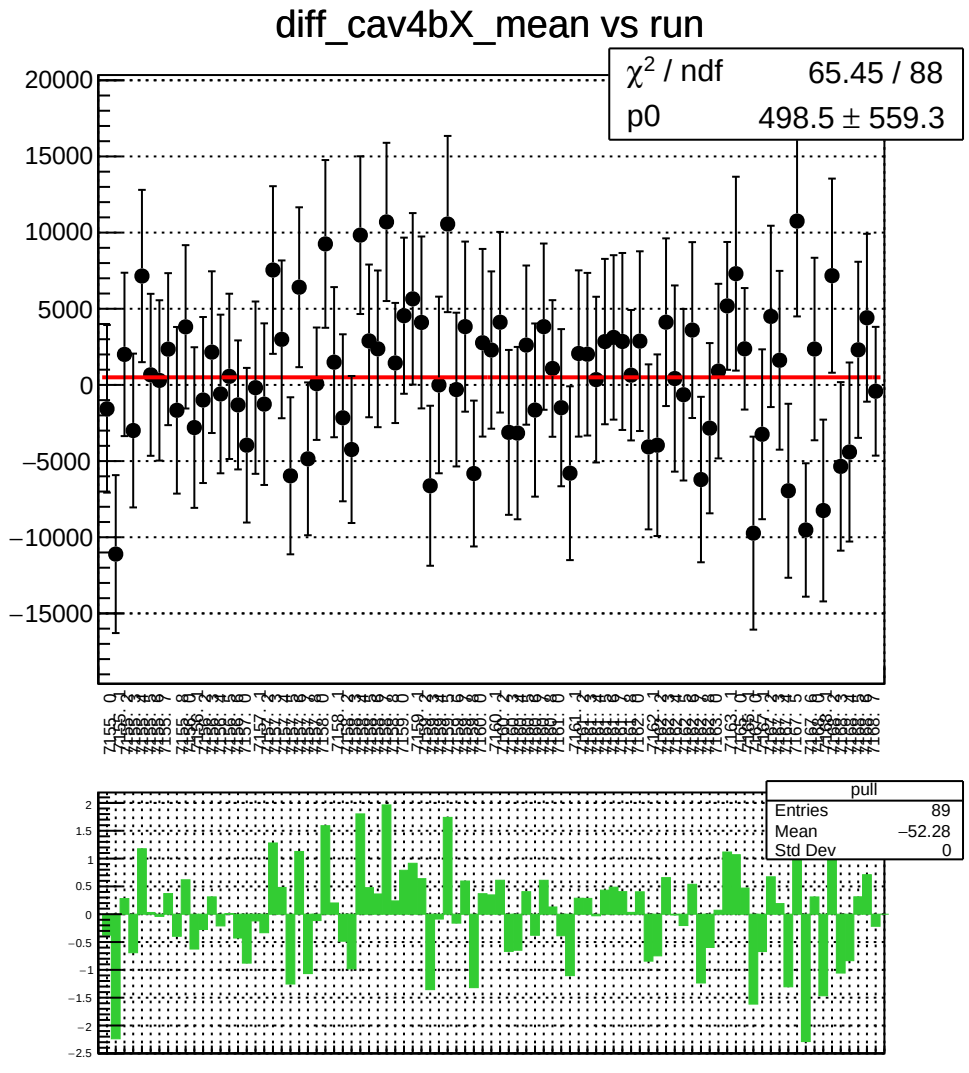

pull1D
Entries 89
Mean 0.02469
Std Dev 0.9753

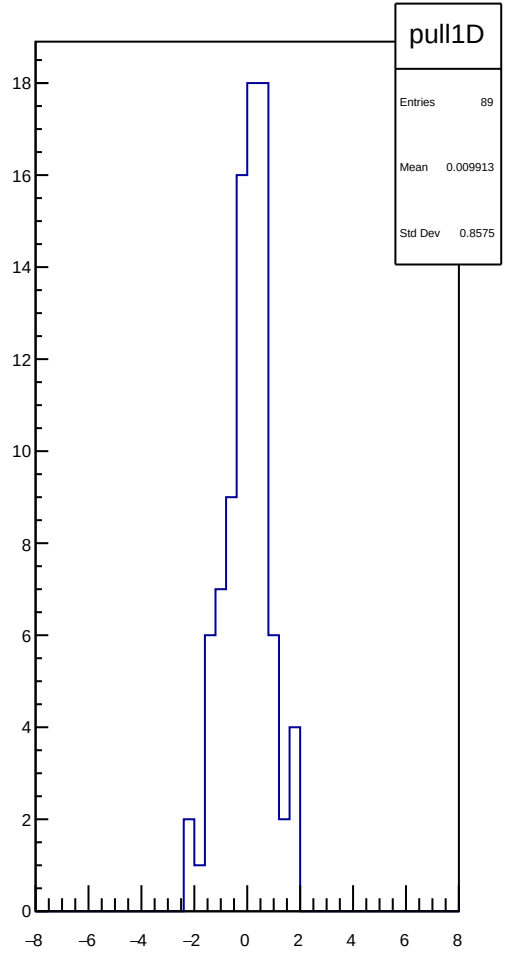

diff_bpm1p03aX_rms vs run
χ² / ndf 3394 / 88
p0 1626 ± 1.237
1850
1800
1750
1700
1650
1600
1550
1500
1450

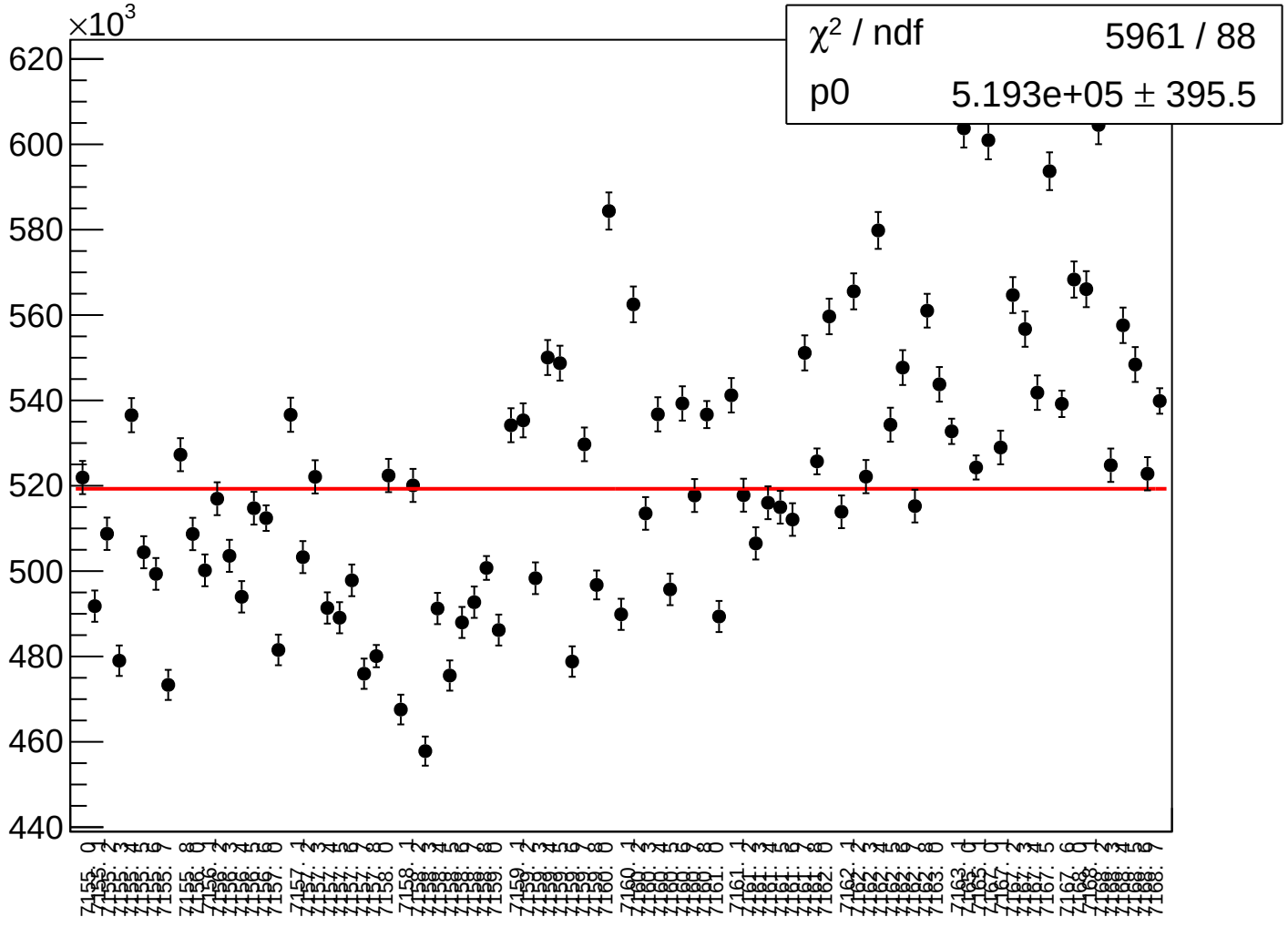

diff_bpm1p03aY_mean vs run
χ² / ndf 98.7 / 88
p0 −0.5841 ± 2.612
pull
Entries 89
Mean 108.2
Std Dev 15.72

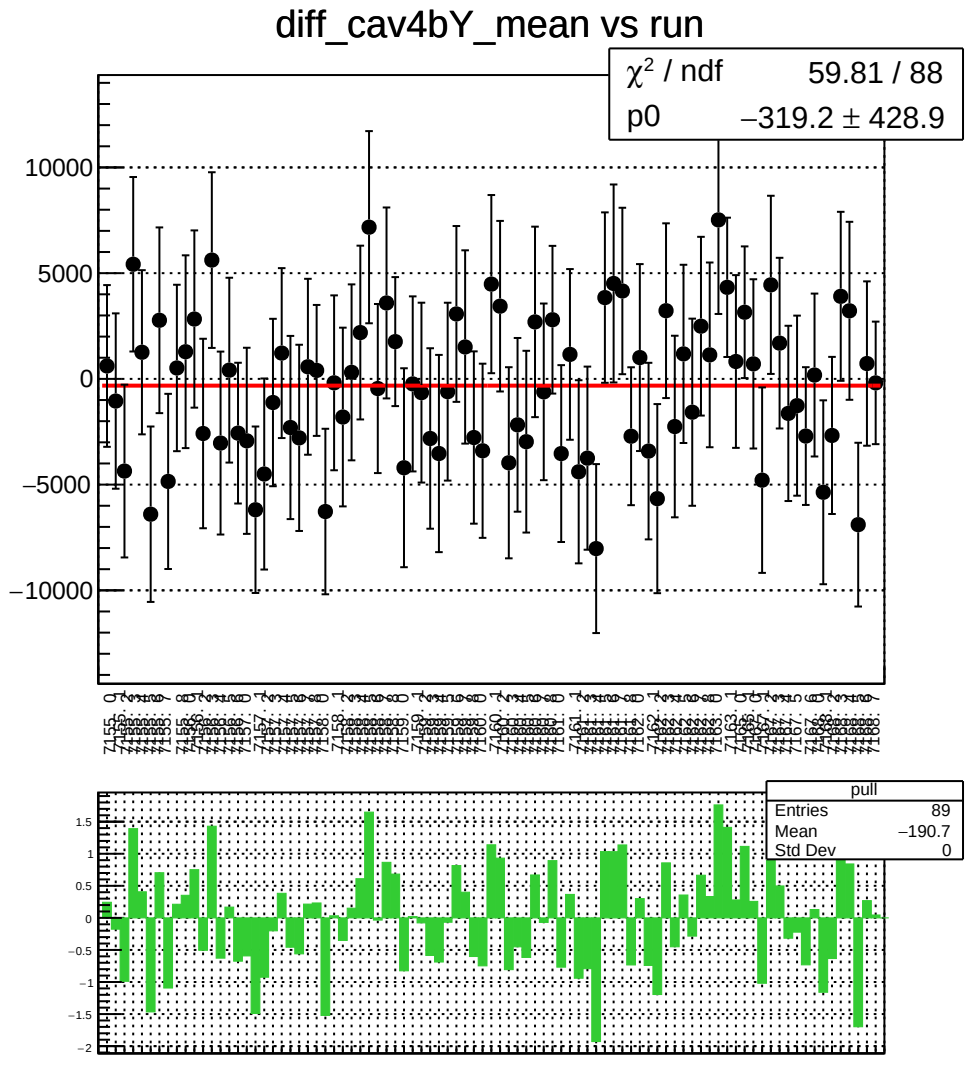

pull1D
Entries 89
Mean 0.01264
Std Dev 1.053

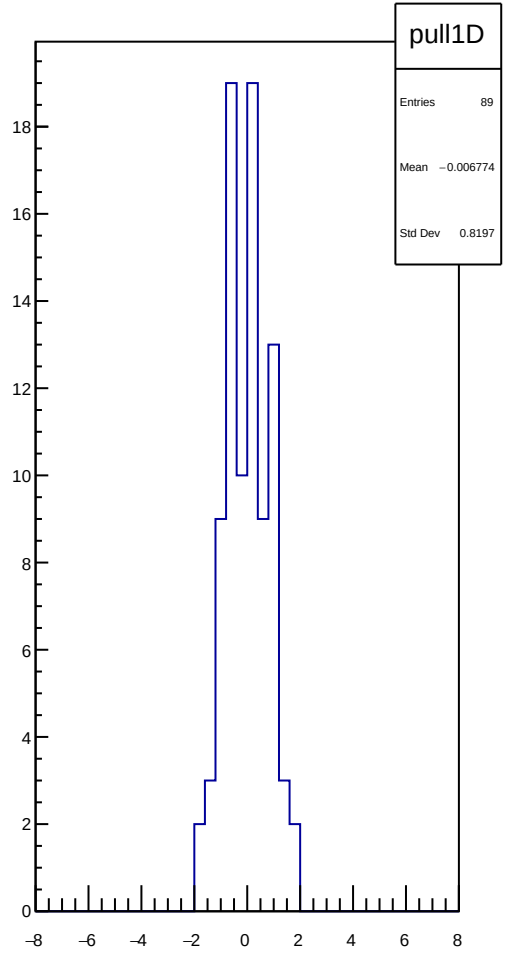

diff_bpm1p03aY_rms vs run
χ² / ndf 1.844e+04 / 88
p0 2417 ± 1.847
2800
2600
2400
2200
2000

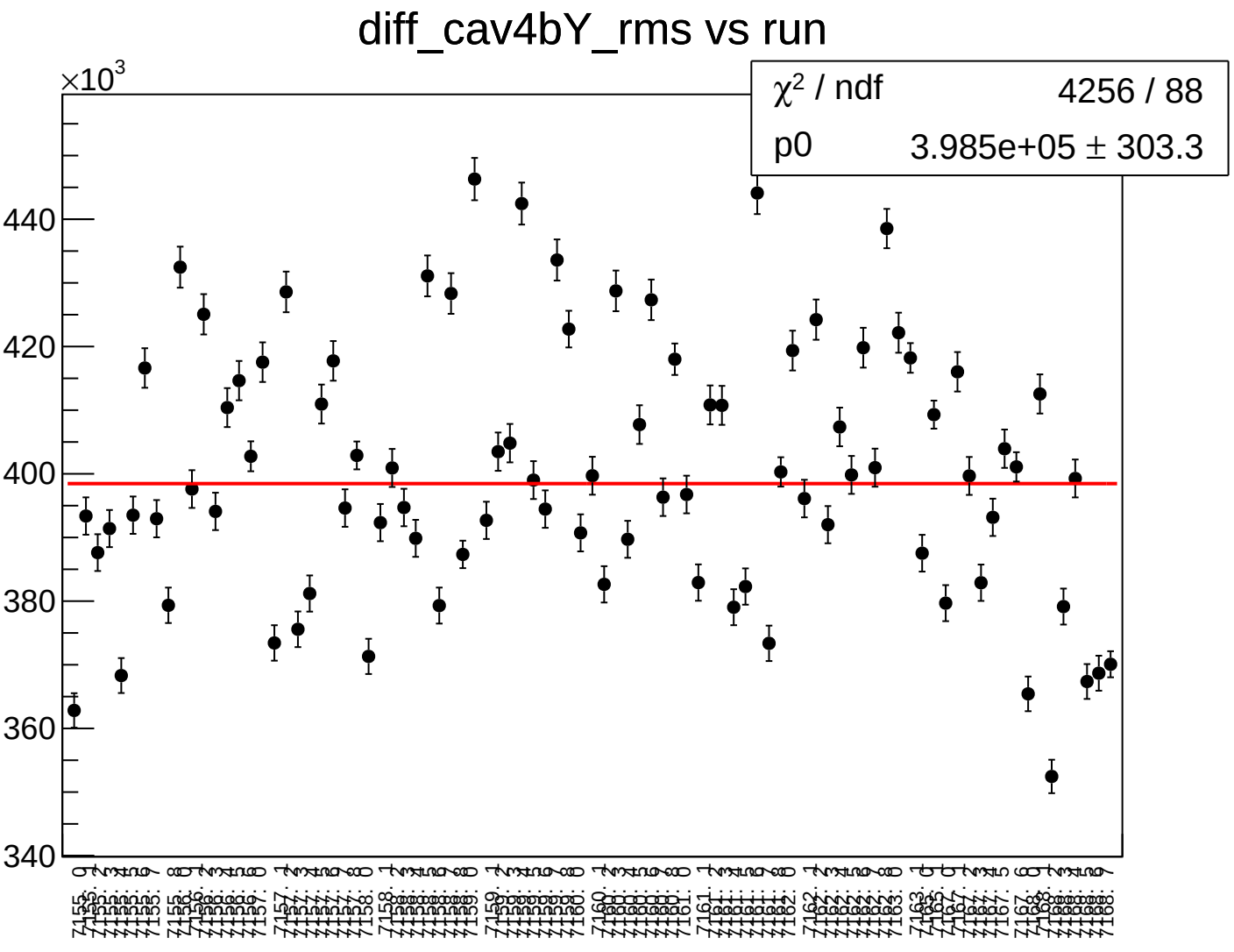

diff_cav4bX_mean vs run
χ^2 / ndf 65.45 / 88
p0 498.5 ± 559.3
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −52.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

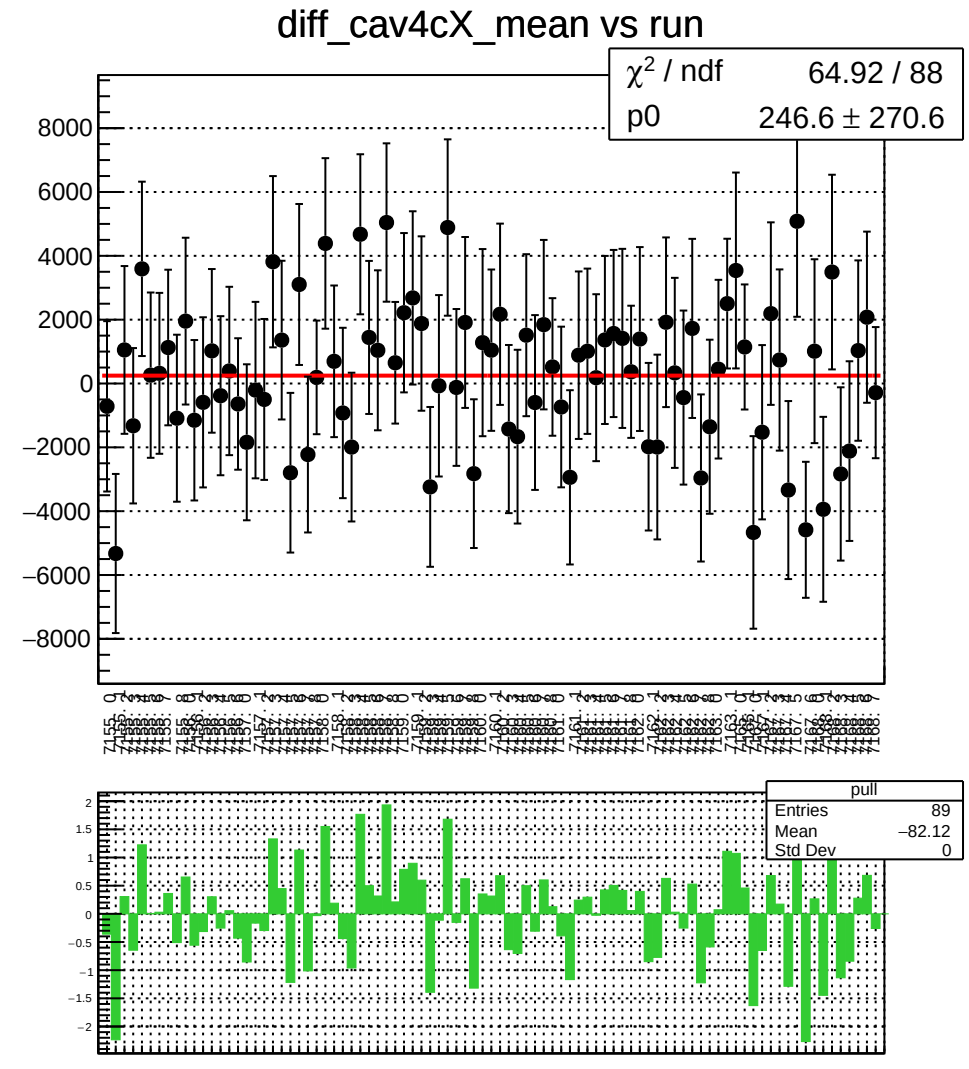

pull1D
Entries 89
Mean 0.009913
Std Dev 0.8575
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

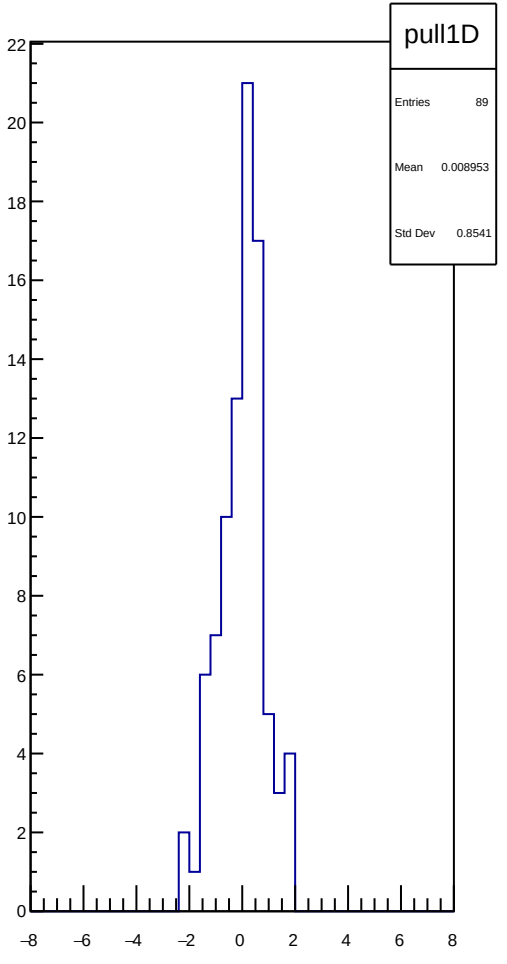

diff_cav4bX_rms vs run
×10^3
620
600
580
560
540
520
500
480
460
440
χ² / ndf 5961 / 88
p0 5.193e+05 ± 395.5

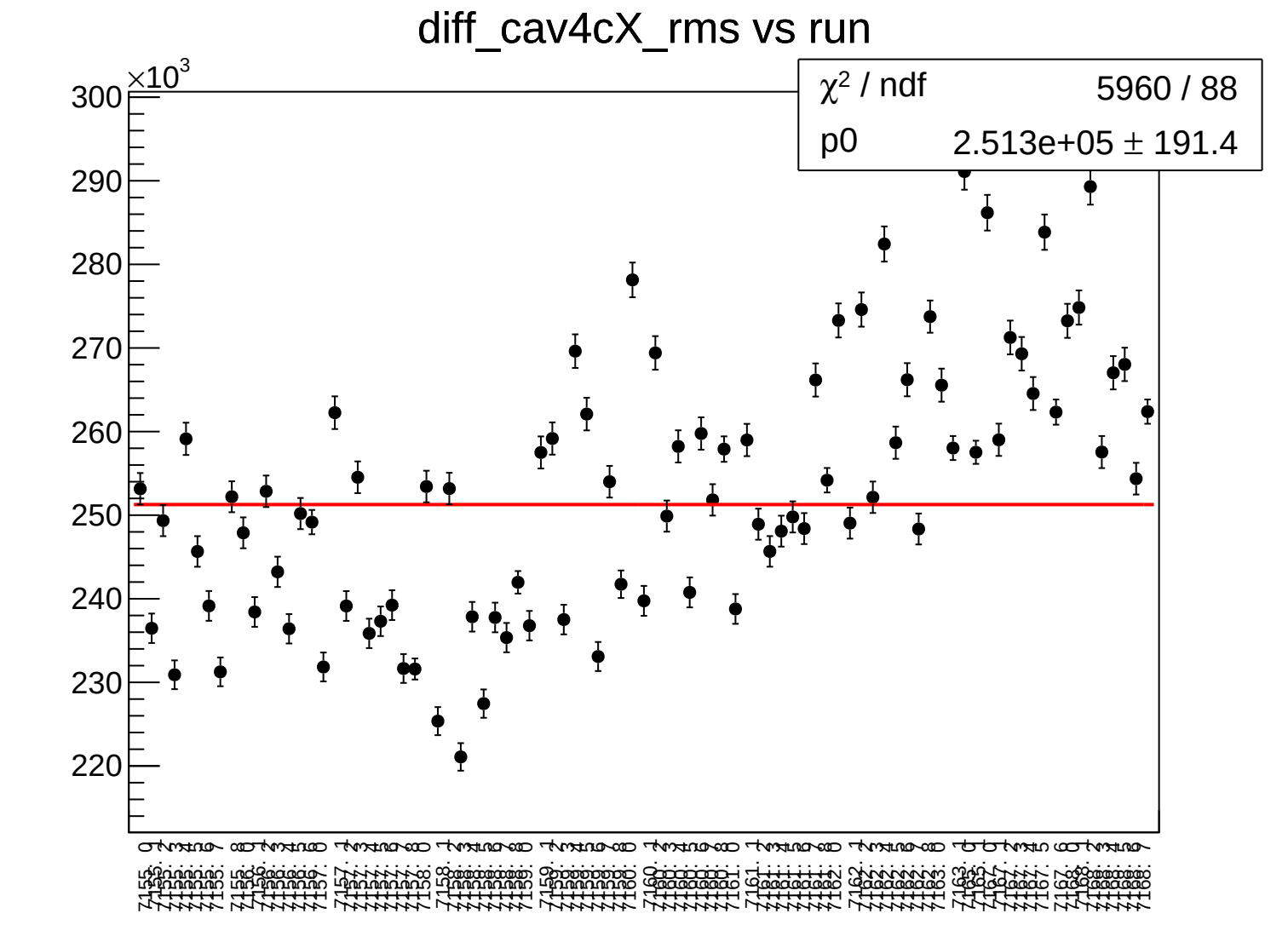

diff_cav4bY_mean vs run
χ^2 / ndf 59.81 / 88
p0 −319.2 ± 428.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −190.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

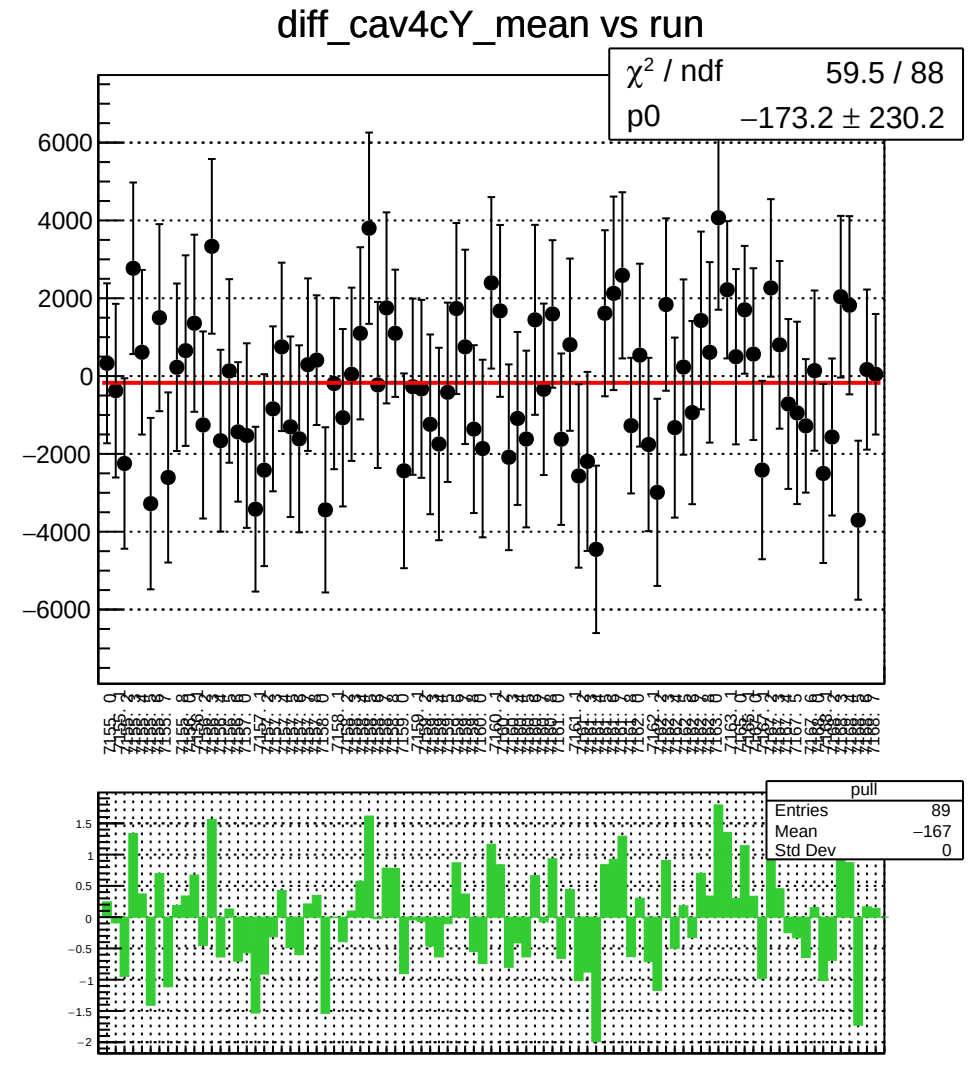

pull1D
Entries 89
Mean −0.006774
Std Dev 0.8197
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

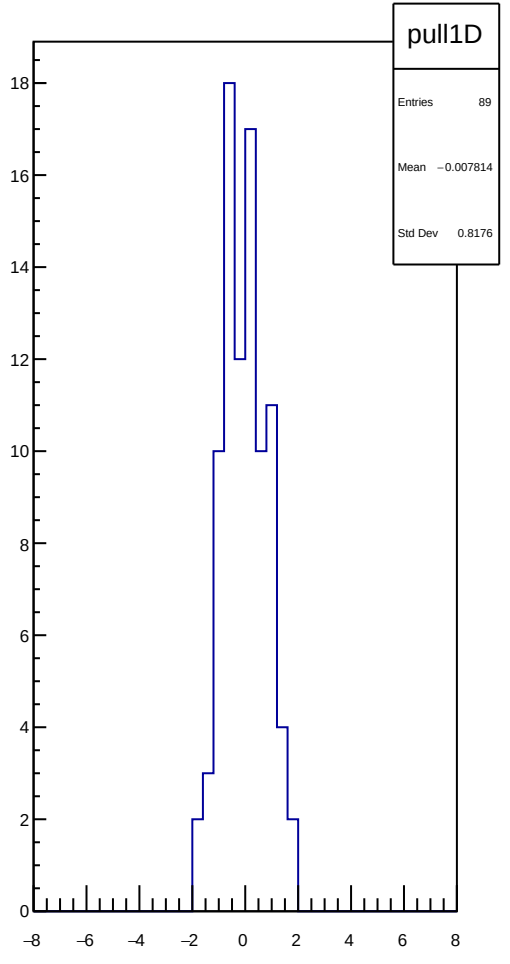

diff_cav4bY_rms vs run
×10^3
χ² / ndf 4256 / 88
p0 3.985e+05 ± 303.3
440
420
400
380
360
340

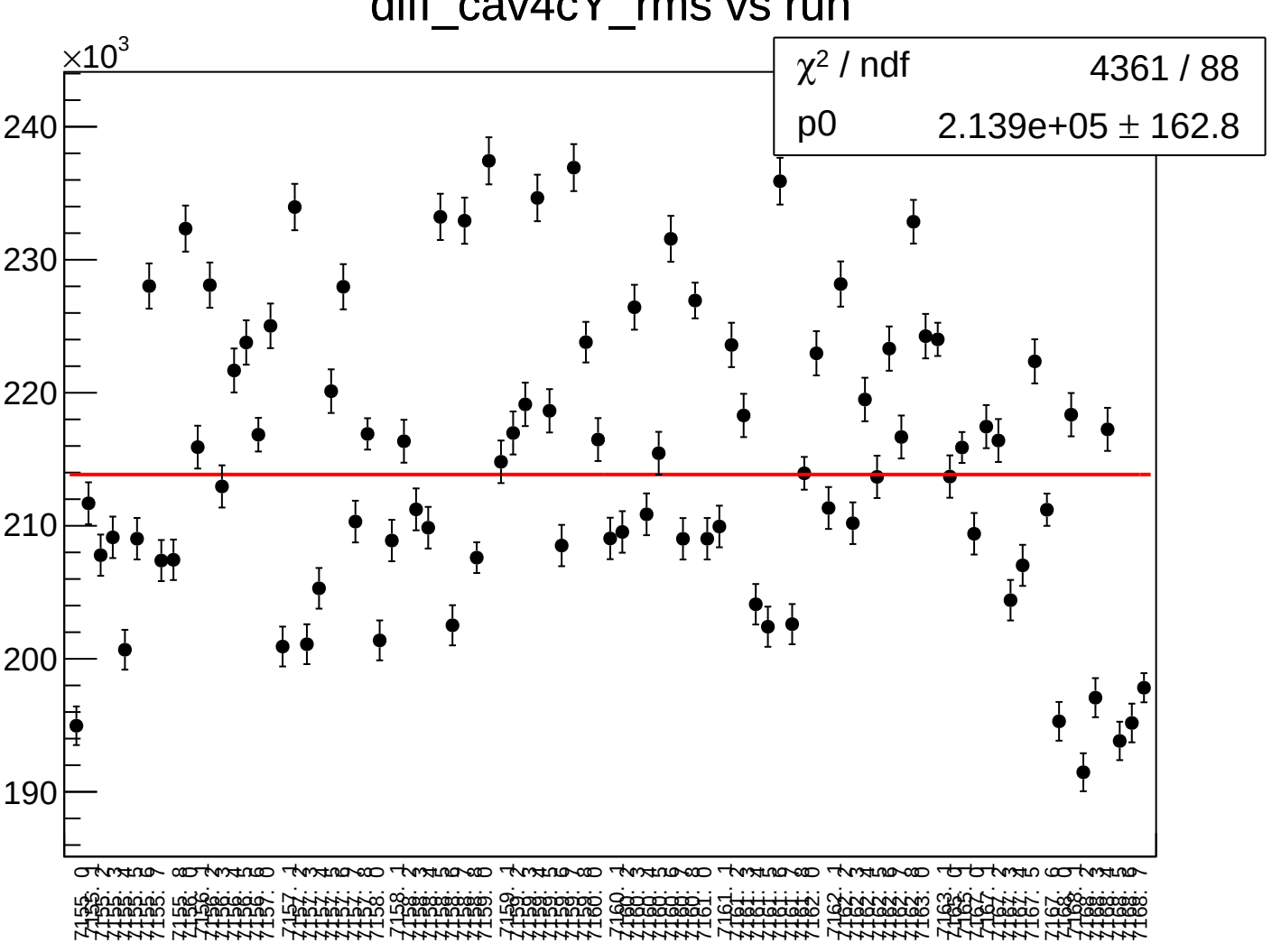

diff_cav4cX_mean vs run
χ² / ndf 64.92 / 88
p0 246.6 ± 270.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean −82.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

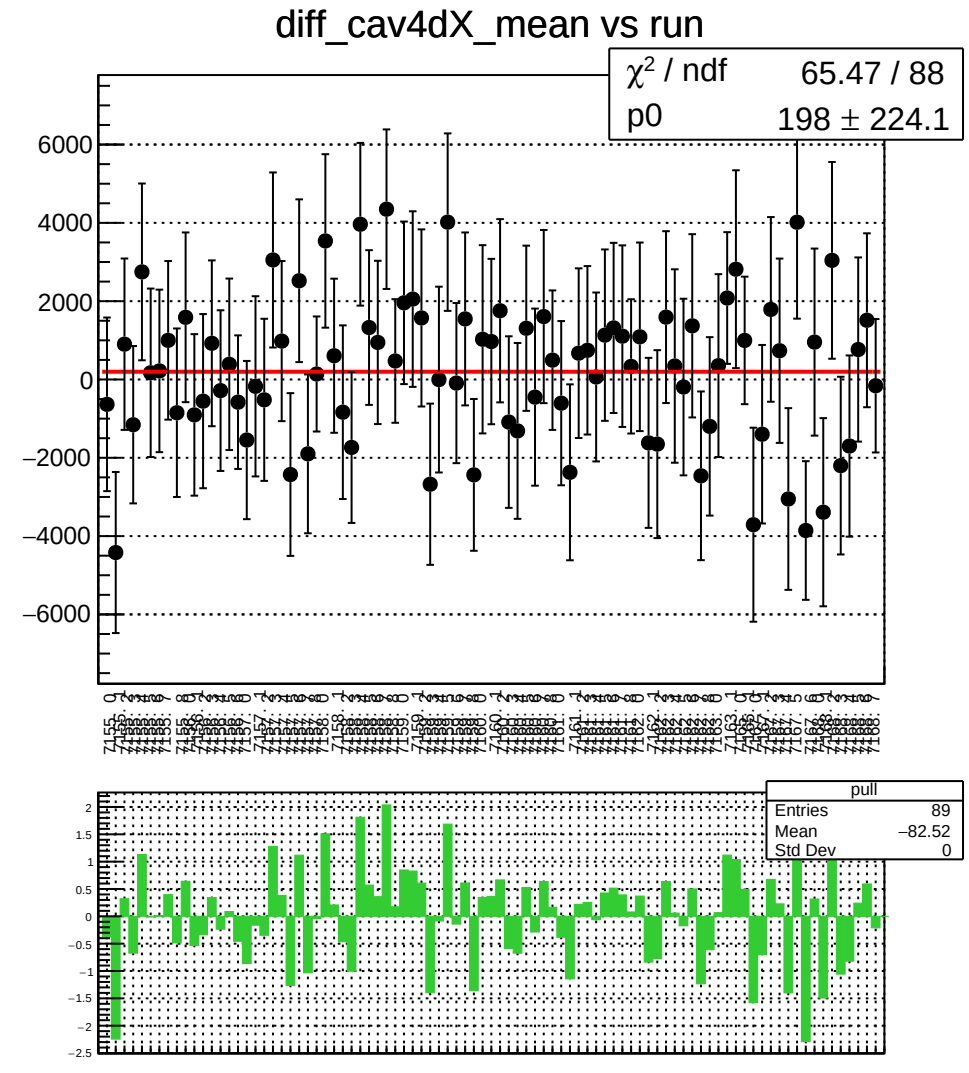

pull1D
Entries 89
Mean 0.008953
Std Dev 0.8541
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

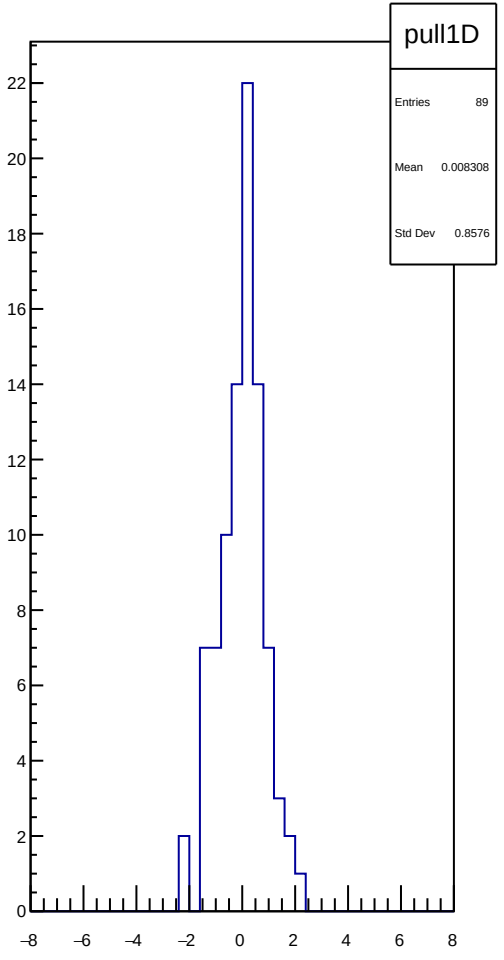

diff_cav4cX_rms vs run
χ² / ndf 5960 / 88
p0 2.513e+05 ± 191.4
×10³
300
290
280
270
260
250
240
230
220

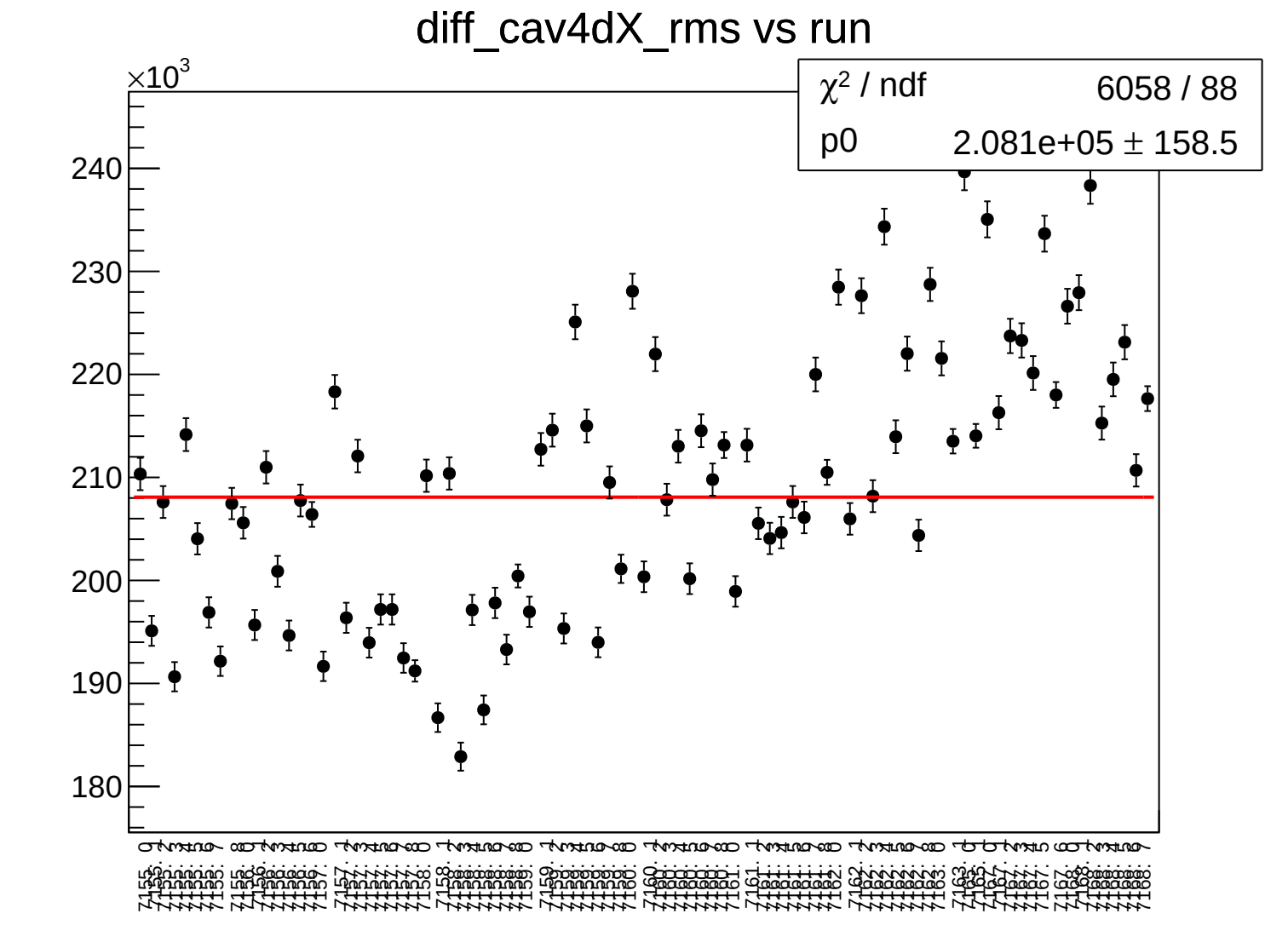

diff_cav4cY_mean vs run
χ² / ndf 59.5 / 88
p0 −173.2 ± 230.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −167
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

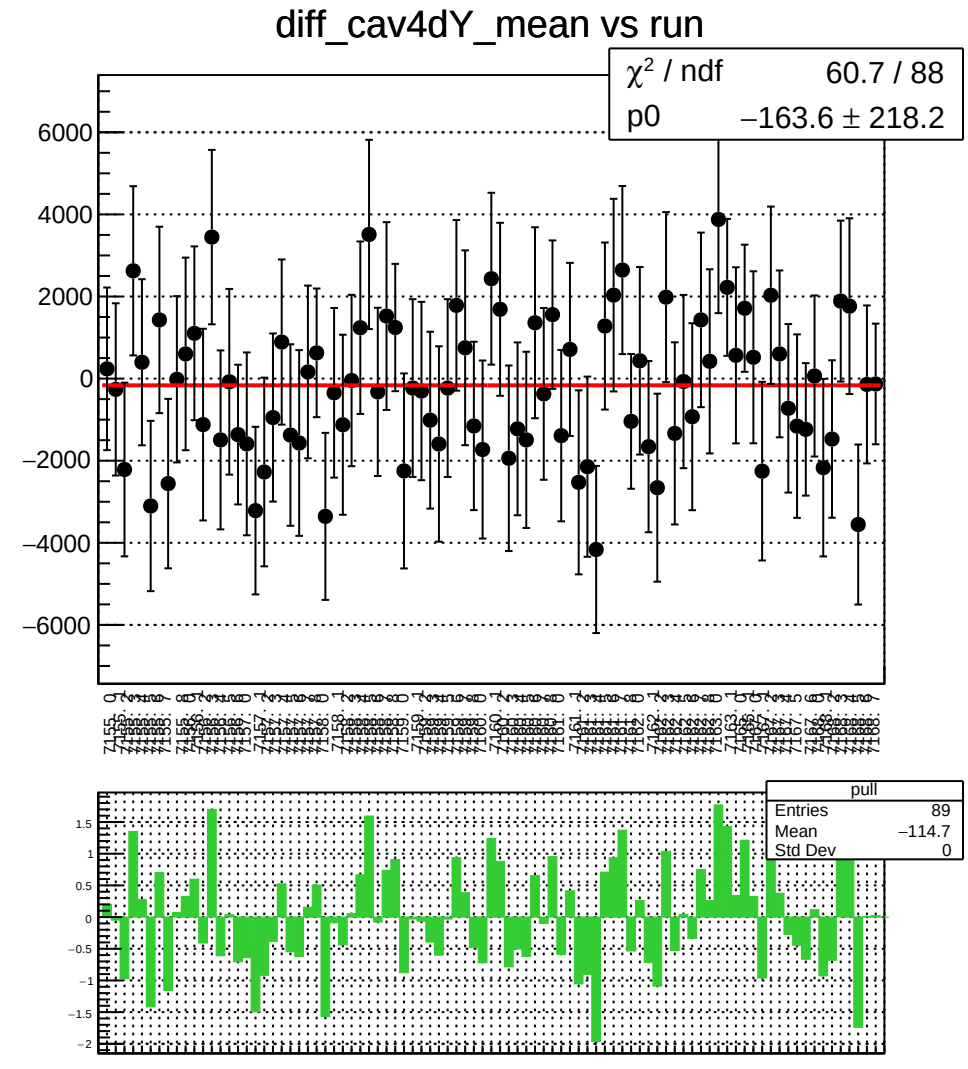

pull1D
Entries 89
Mean −0.007814
Std Dev 0.8176
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

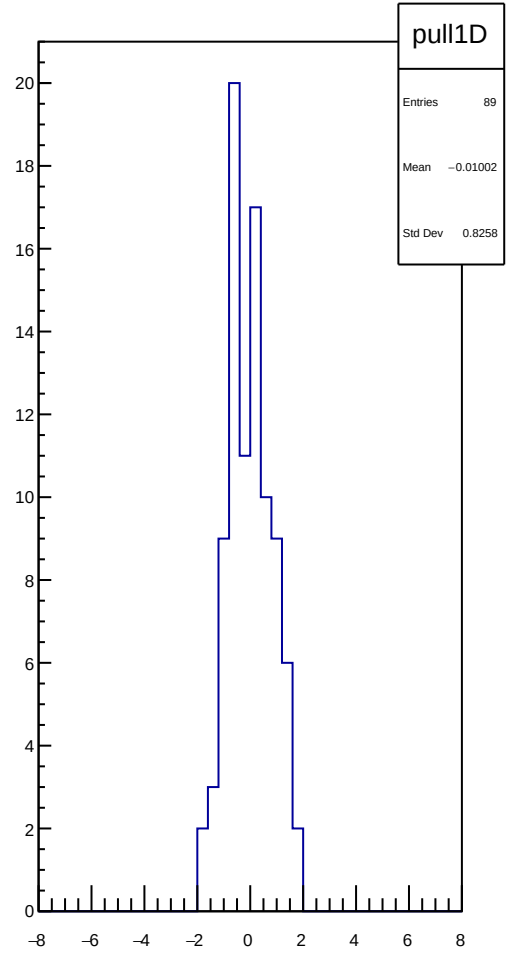

diff_cav4cY_rms vs run
×10^3
240
230
220
210
200
190
χ² / ndf 4361 / 88
p0 2.139e+05 ± 162.8

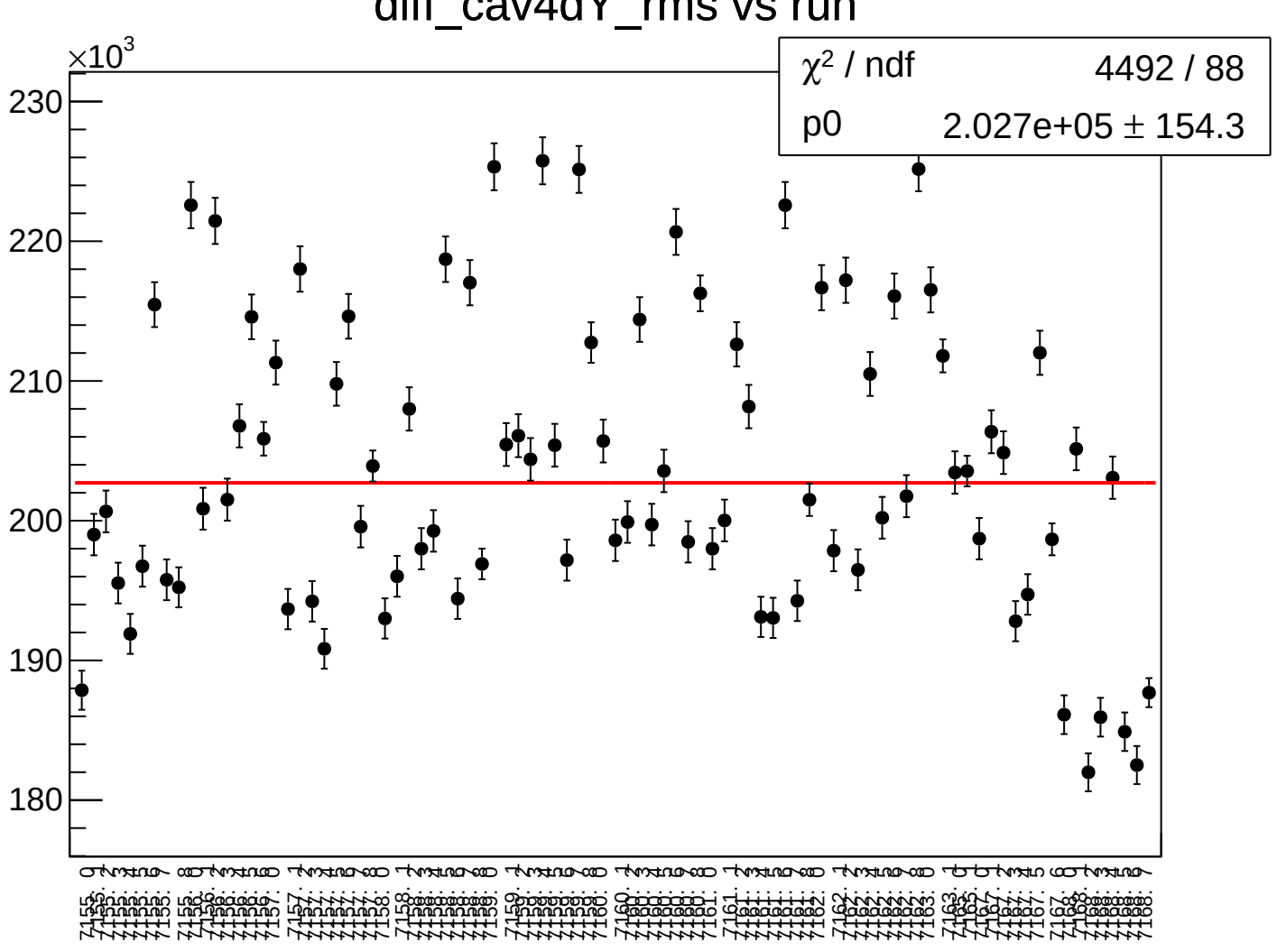

diff_cav4dX_mean vs run
χ² / ndf 65.47 / 88
p0 198 ± 224.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −82.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

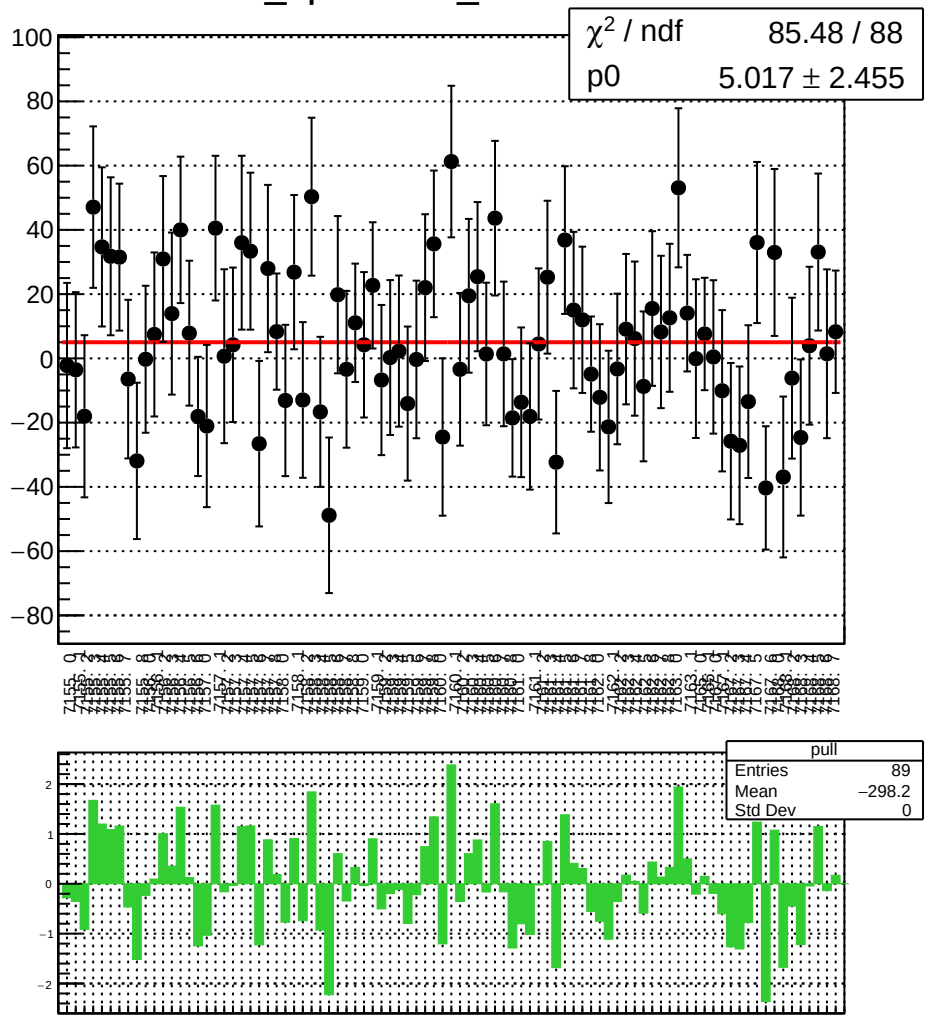

pull1D
Entries 89
Mean 0.008308
Std Dev 0.8576
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

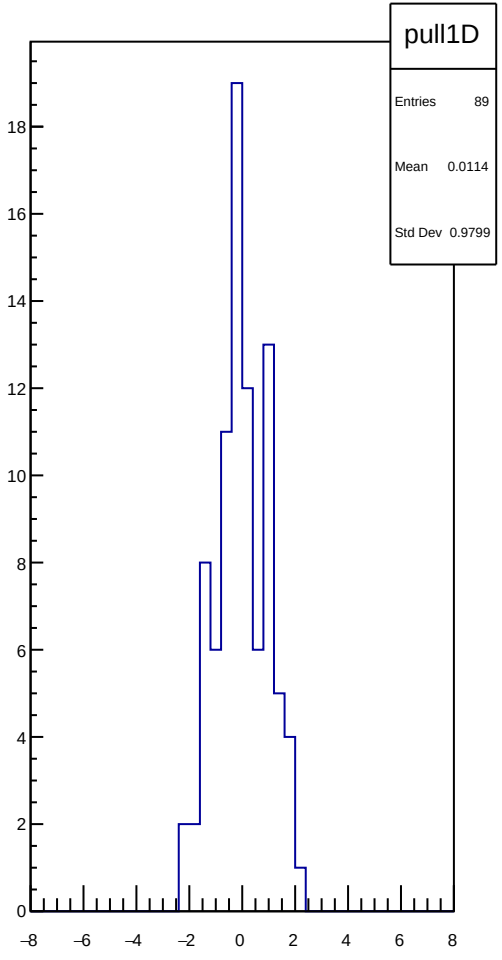

diff_cav4dX_rms vs run
×10^3
240
230
220
210
200
190
180
χ² / ndf 6058 / 88
p0 2.081e+05 ± 158.5

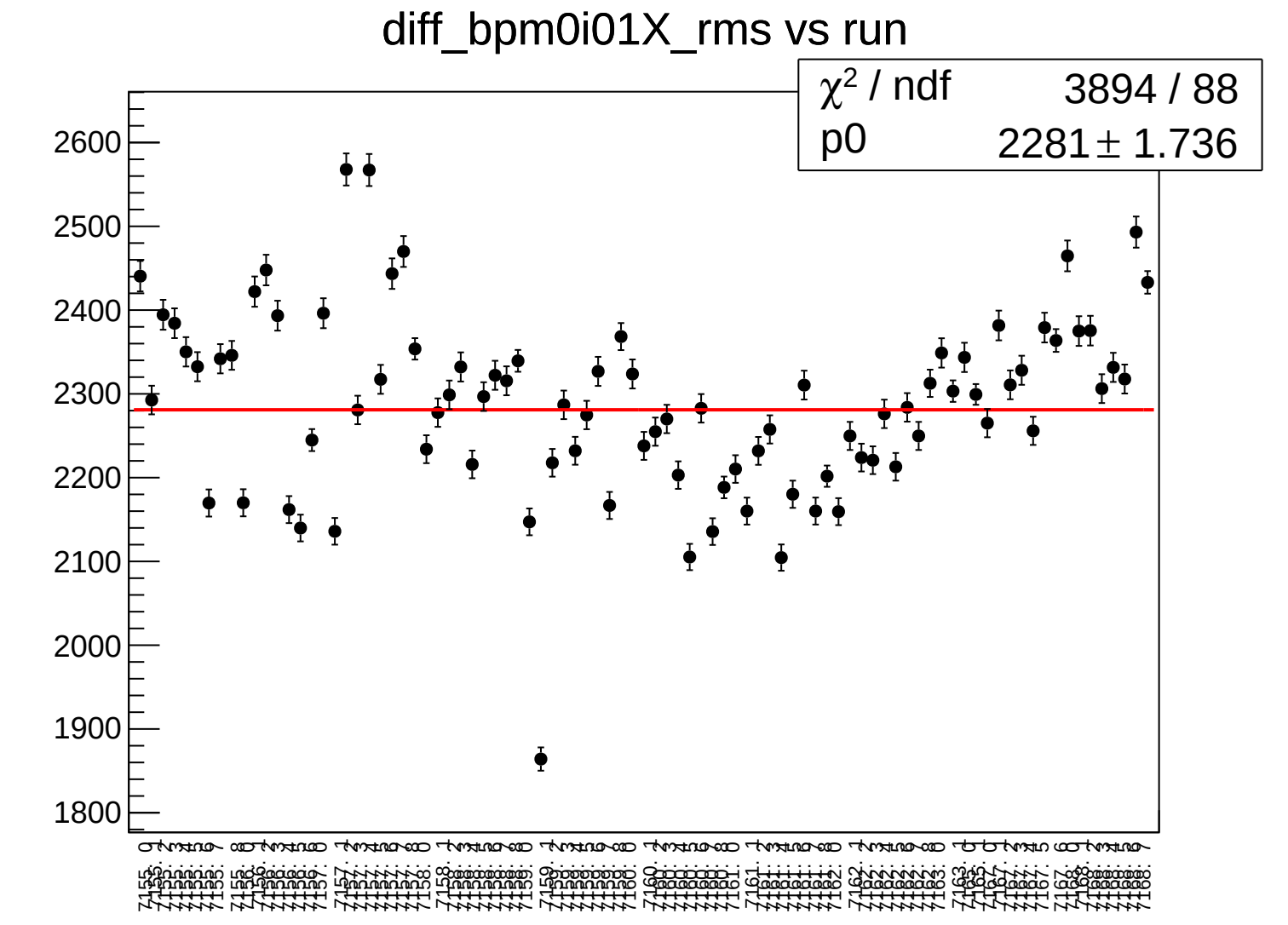

diff_cav4dY_mean vs run
χ² / ndf 60.7 / 88
p0 −163.6 ± 218.2
pull
Entries 89
Mean −114.7
Std Dev 0

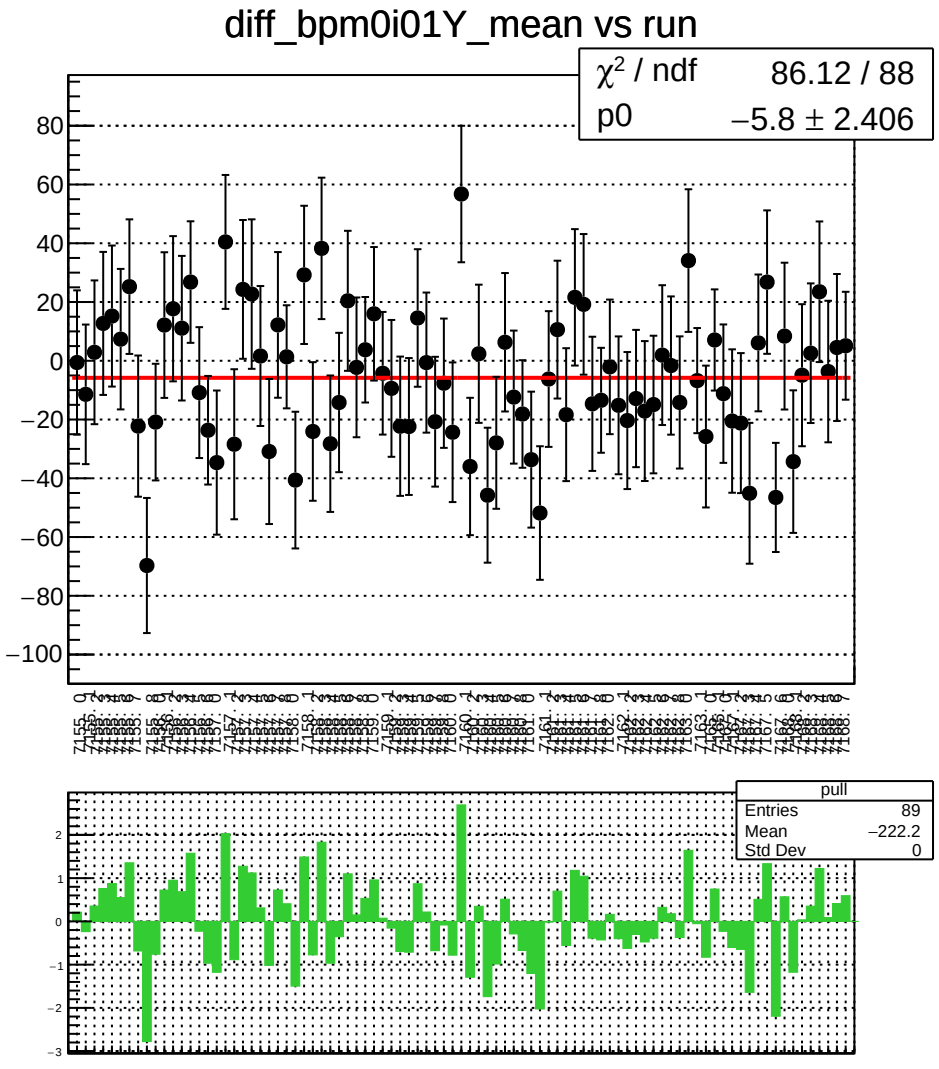

pull1D
Entries 89
Mean −0.01002
Std Dev 0.8258

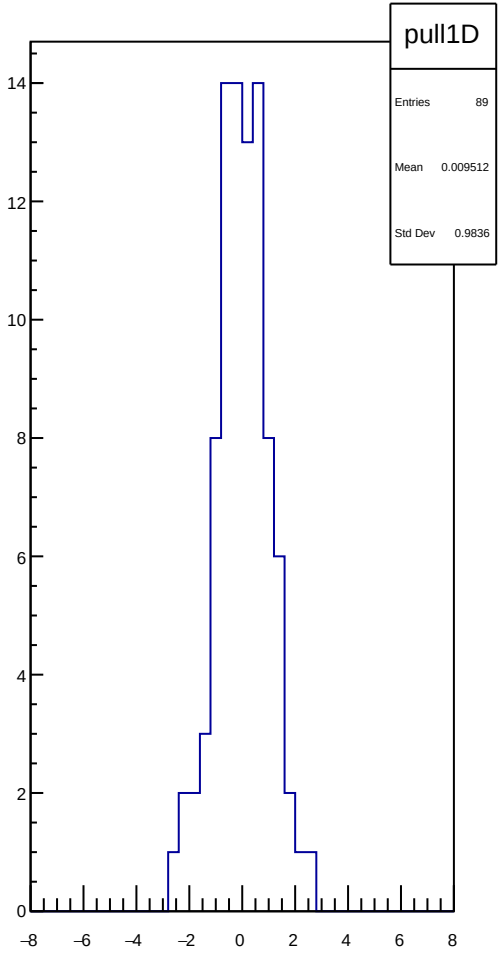

diff_cav4dY_rms vs run
×10^3
230
220
210
200
190
180
χ² / ndf 4492 / 88
p0 2.027e+05 ± 154.3

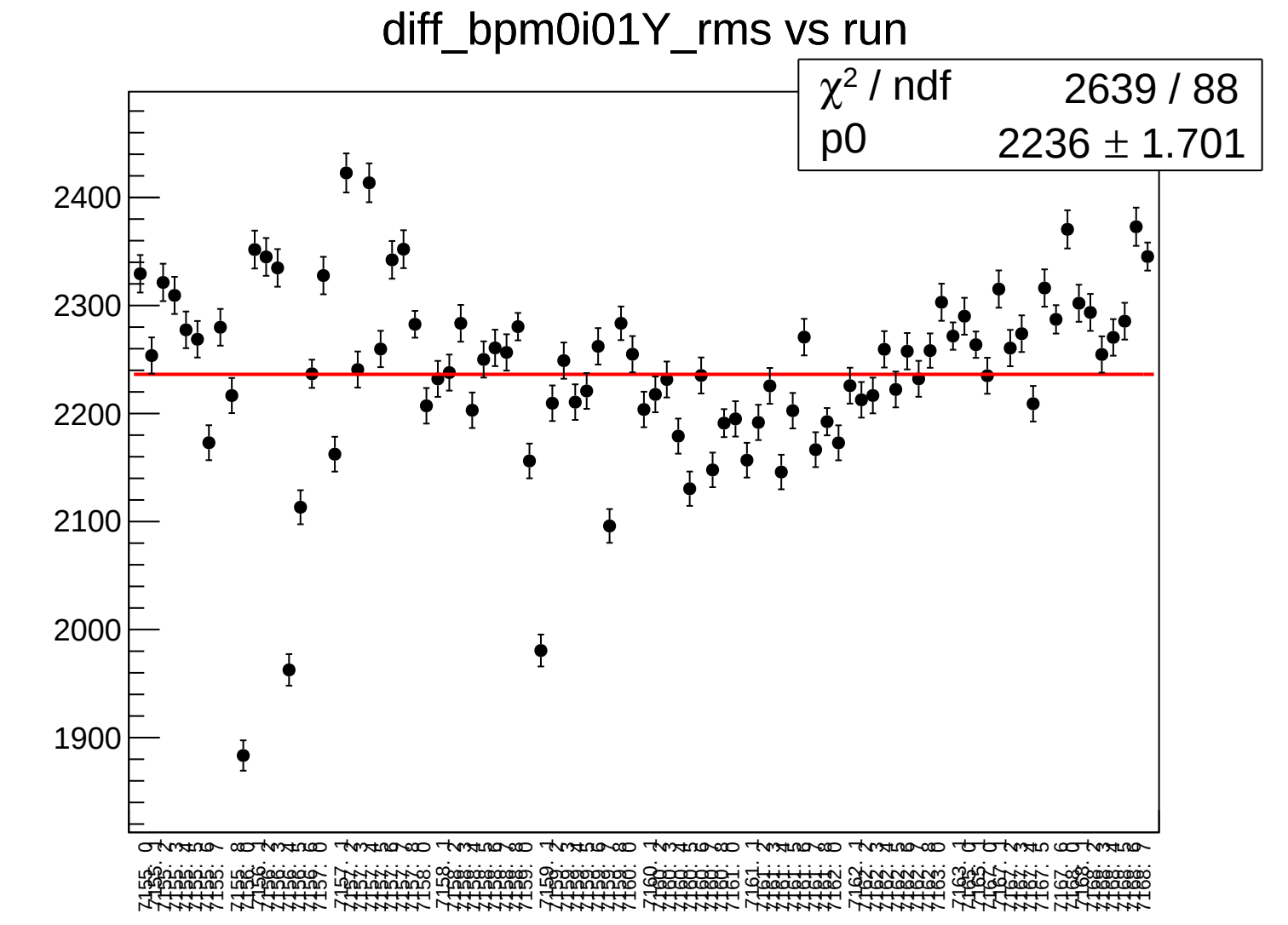

diff_bpm0i01X_mean vs run
χ^2 / ndf 85.48 / 88
p0 5.017 ± 2.455
pull
Entries 89
Mean −298.2
Std Dev 0

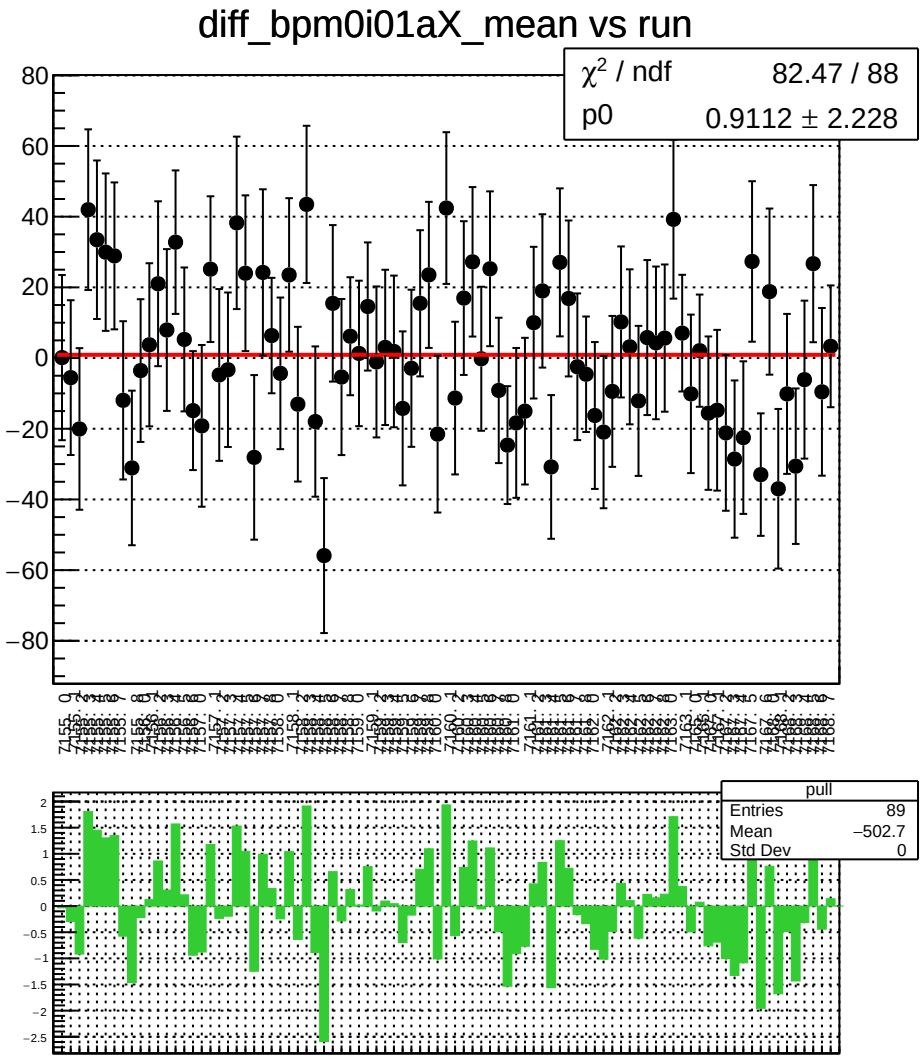

pull1D
Entries 89
Mean 0.0114
Std Dev 0.9799

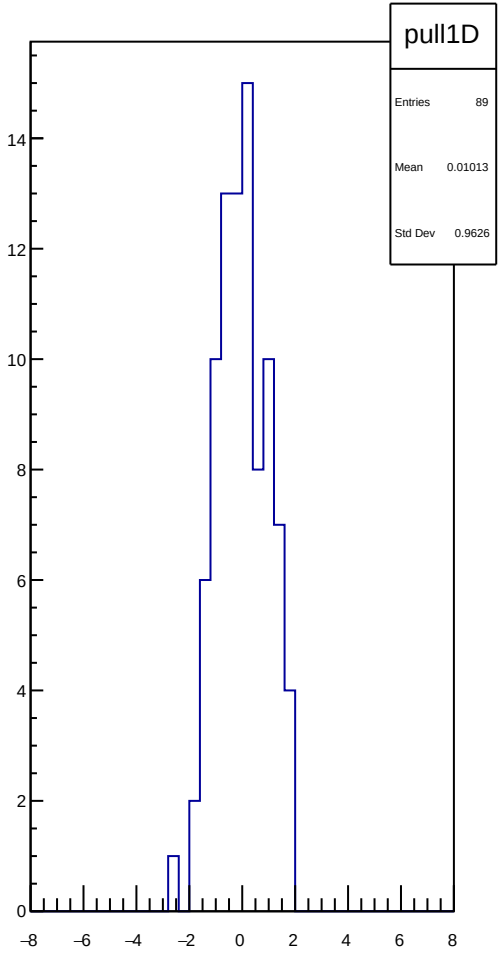

diff_bpm0i01X_rms vs run
χ² / ndf 3894 / 88
p0 2281 ± 1.736
2600
2500
2400
2300
2200
2100
2000
1900
1800

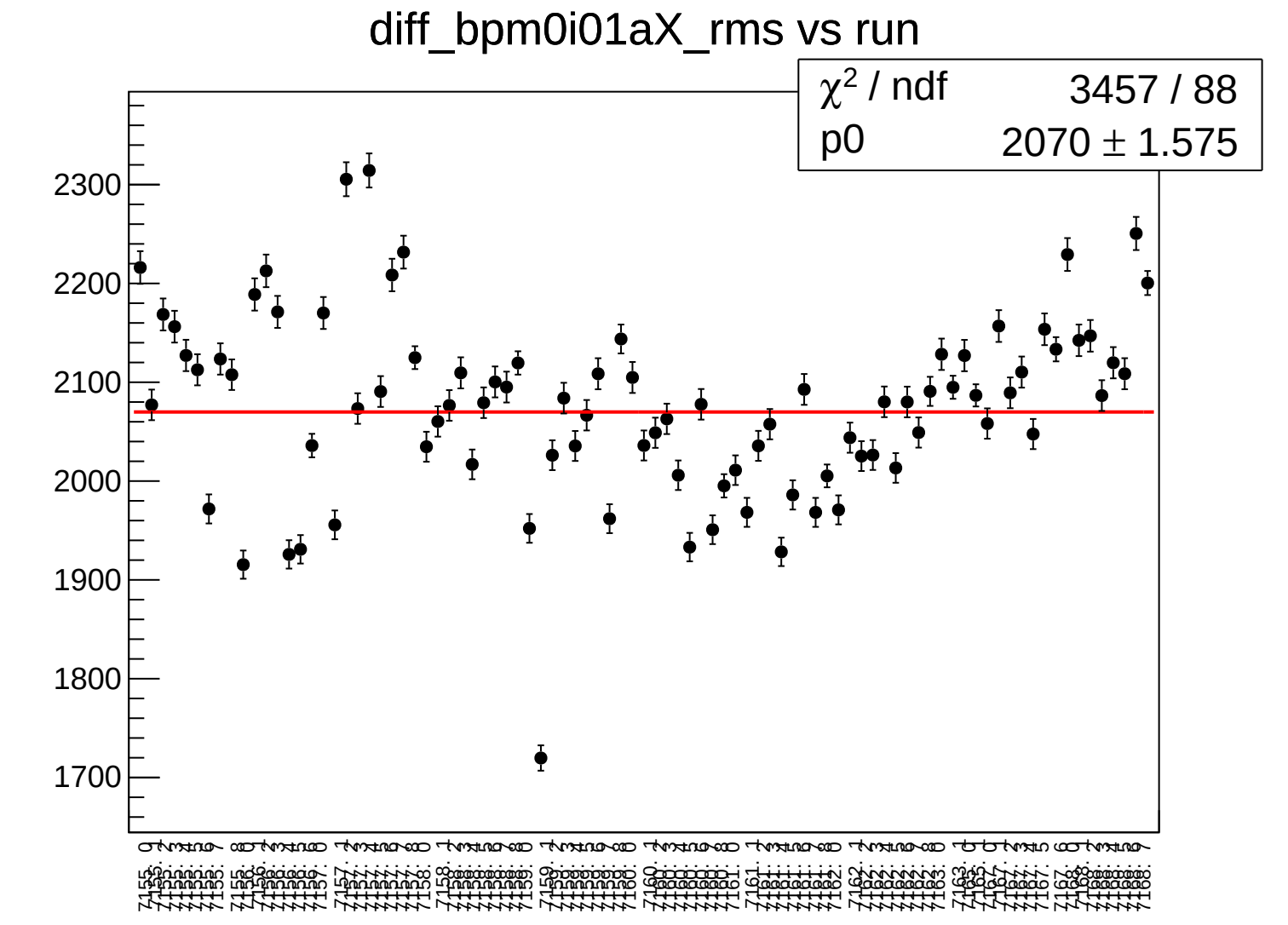

diff_bpm0i01Y_mean vs run
χ² / ndf 86.12 / 88
p0 −5.8 ± 2.406
pull
Entries 89
Mean −222.2
Std Dev 0

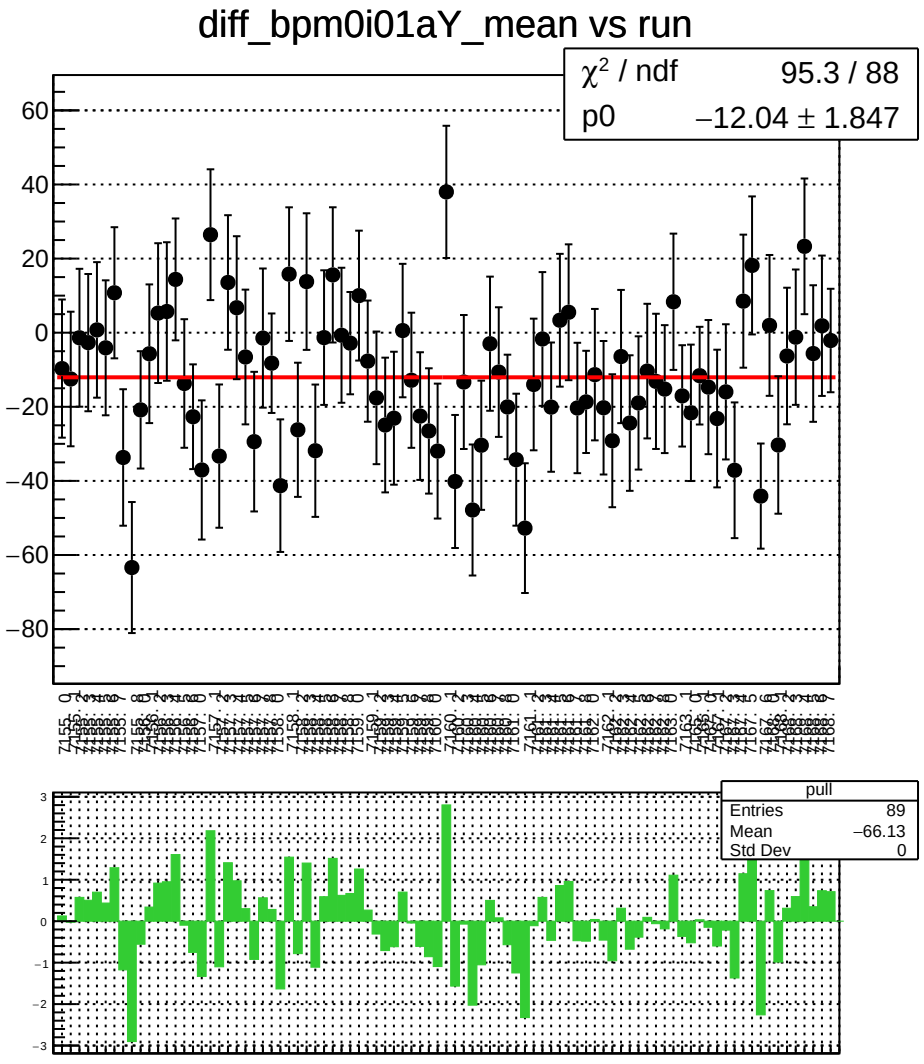

pull1D
Entries 89
Mean 0.009512
Std Dev 0.9836

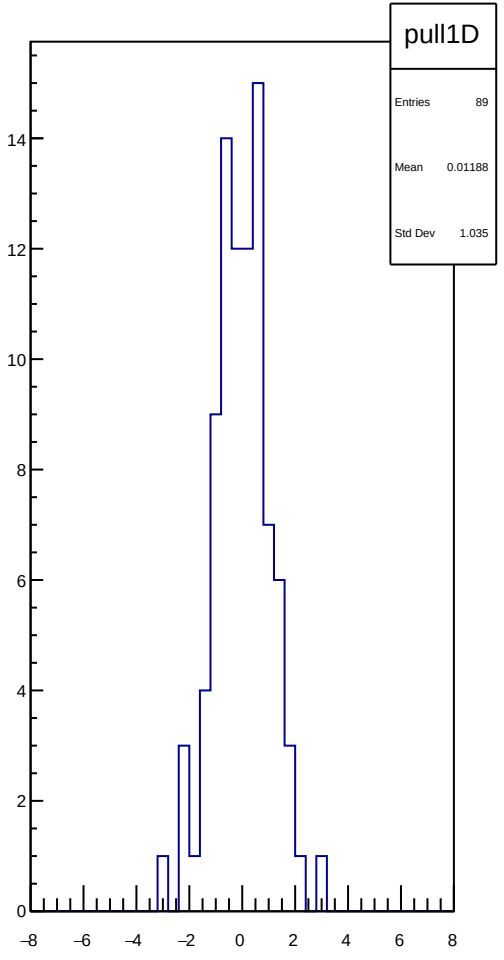

diff_bpm0i01Y_rms vs run
χ² / ndf 2639 / 88
p0 2236 ± 1.701
2400
2300
2200
2100
2000
1900

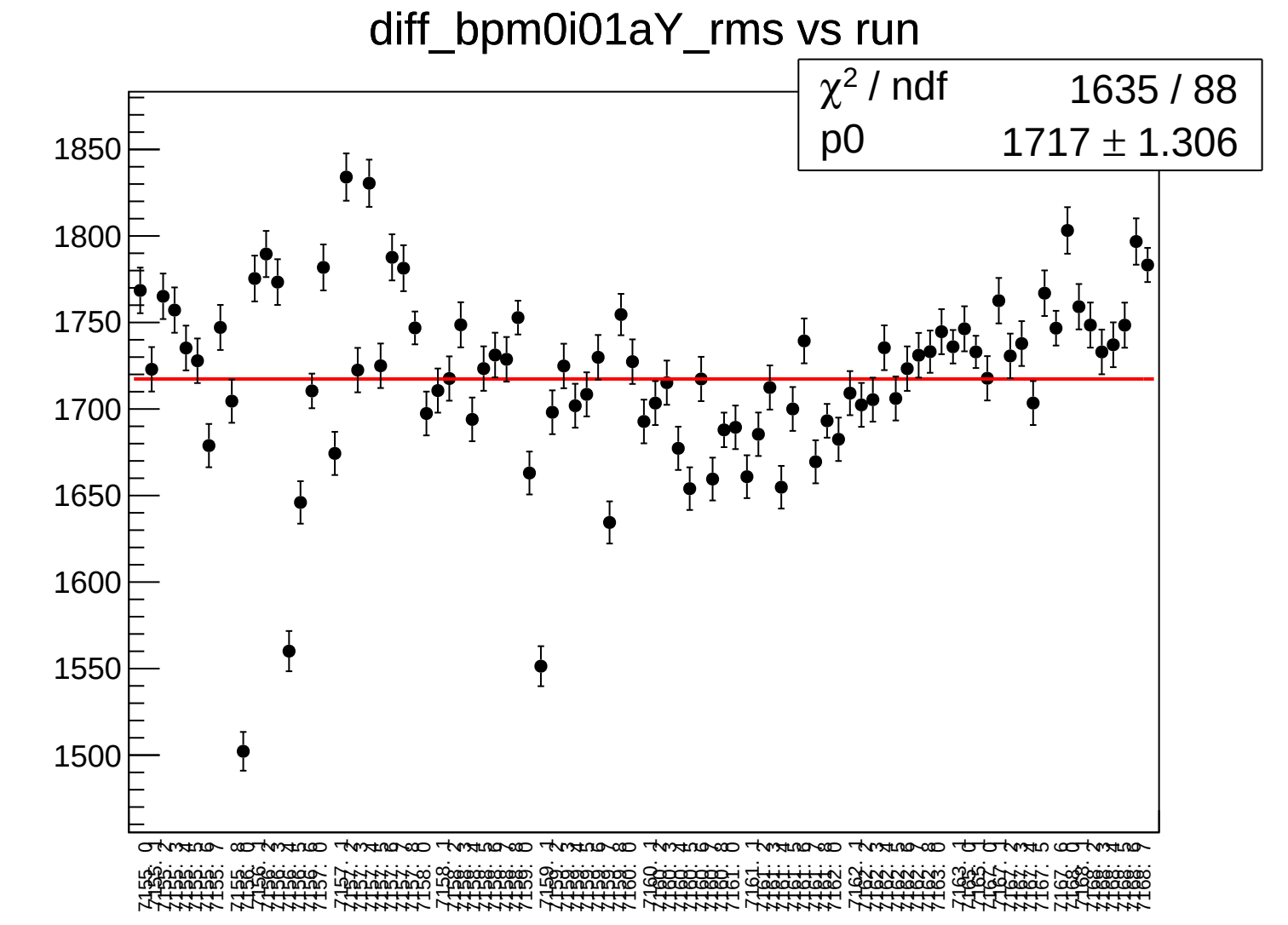

diff_bpm0i01aX_mean vs run
χ^2 / ndf 82.47 / 88
p0 0.9112 ± 2.228
pull
Entries 89
Mean −502.7
Std Dev 0

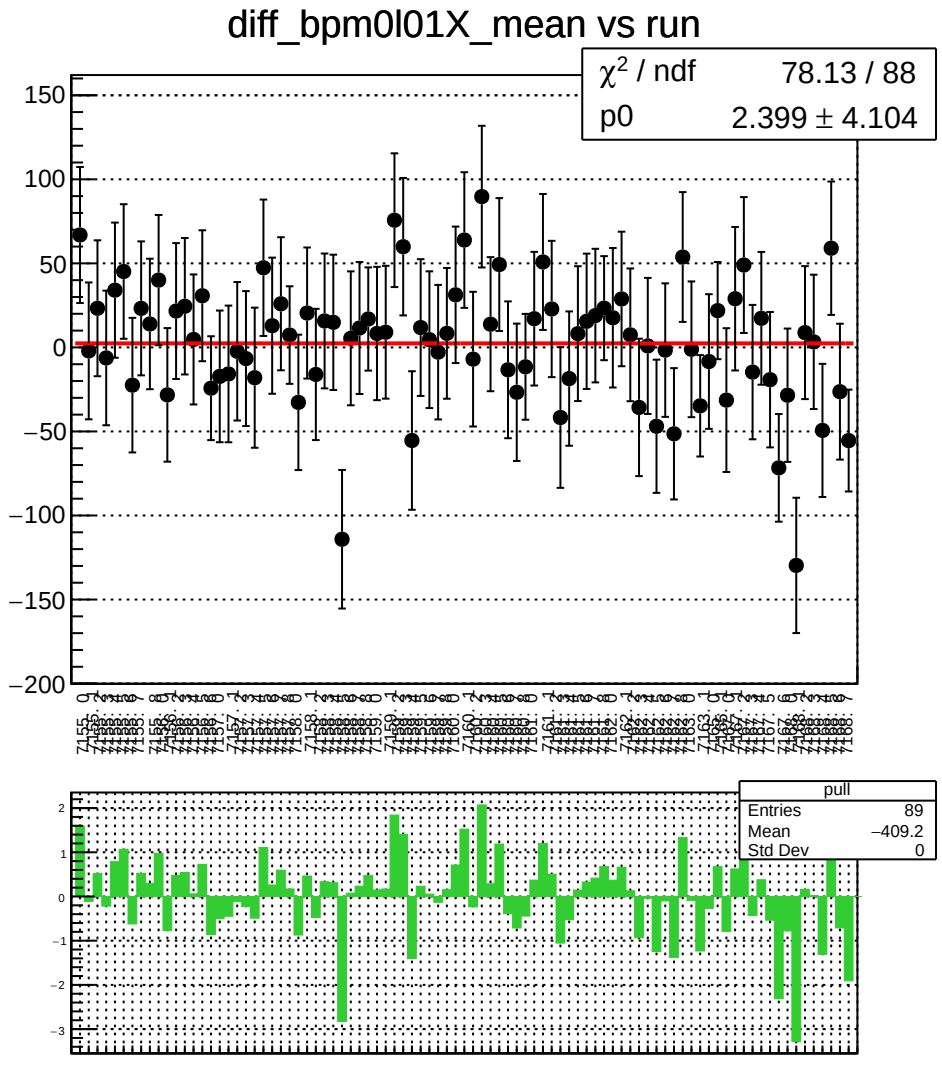

pull1D
Entries 89
Mean 0.01013
Std Dev 0.9626

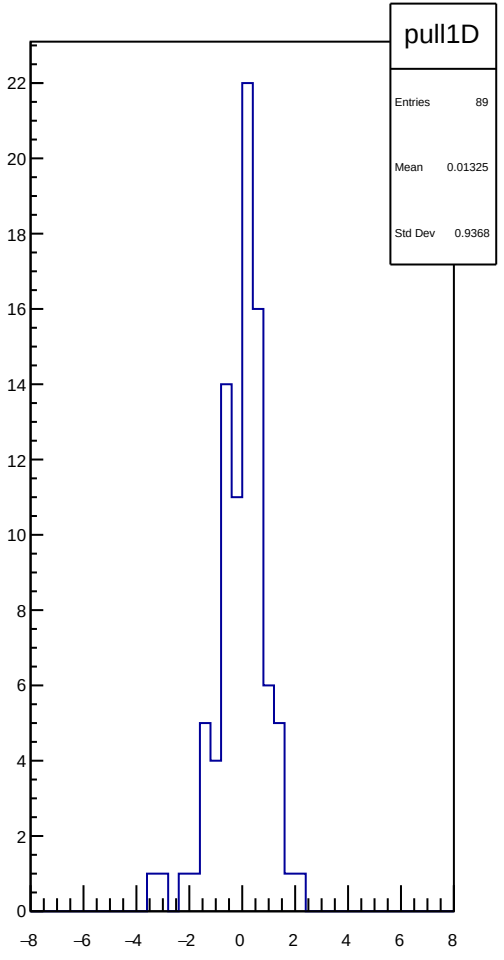

diff_bpm0i01aX_rms vs run
χ² / ndf 3457 / 88
p0 2070 ± 1.575
2300
2200
2100
2000
1900
1800
1700

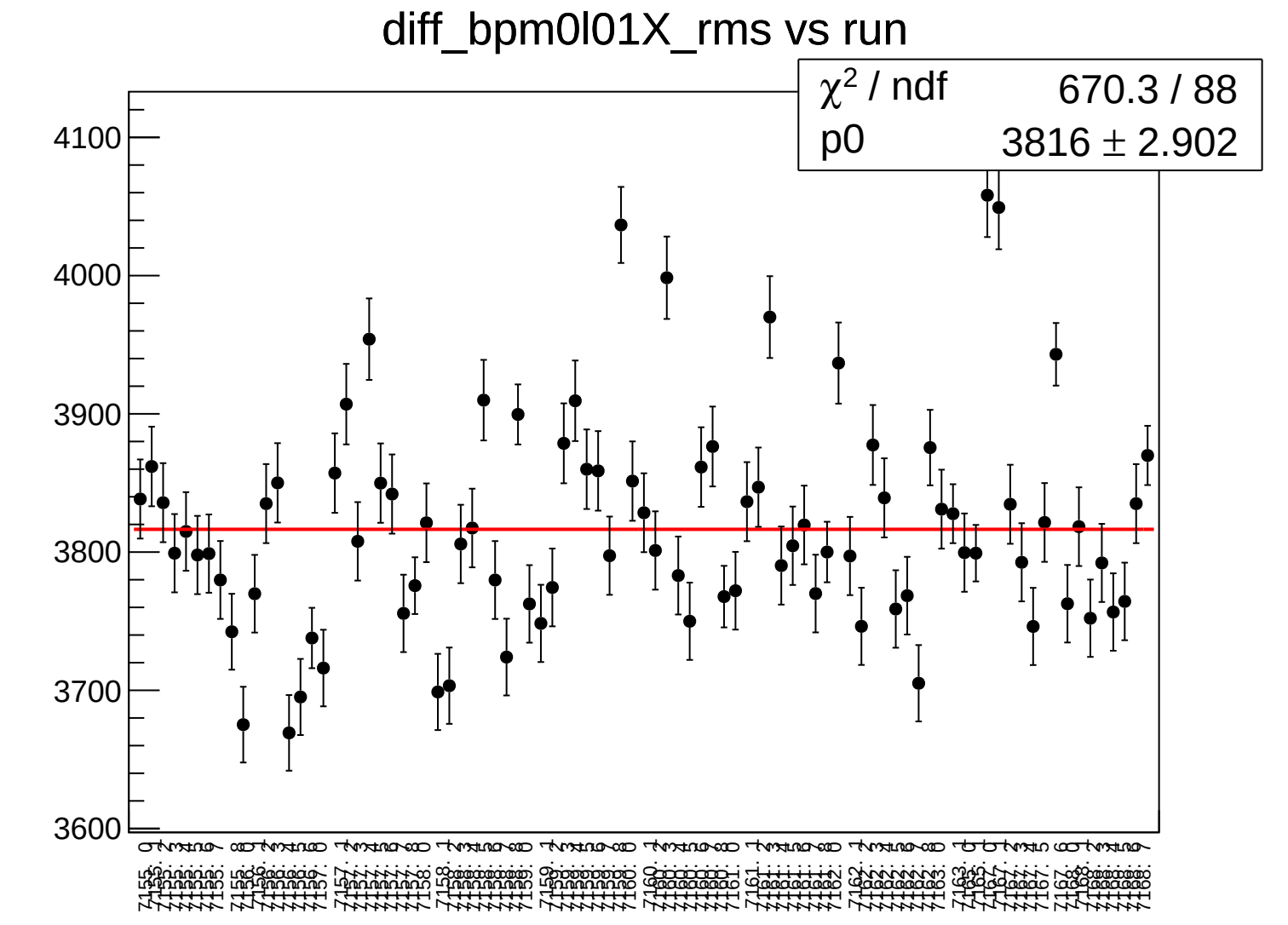

diff_bpm0i01aY_mean vs run
χ² / ndf 95.3 / 88
p0 −12.04 ± 1.847
pull
Entries 89
Mean −66.13
Std Dev 0

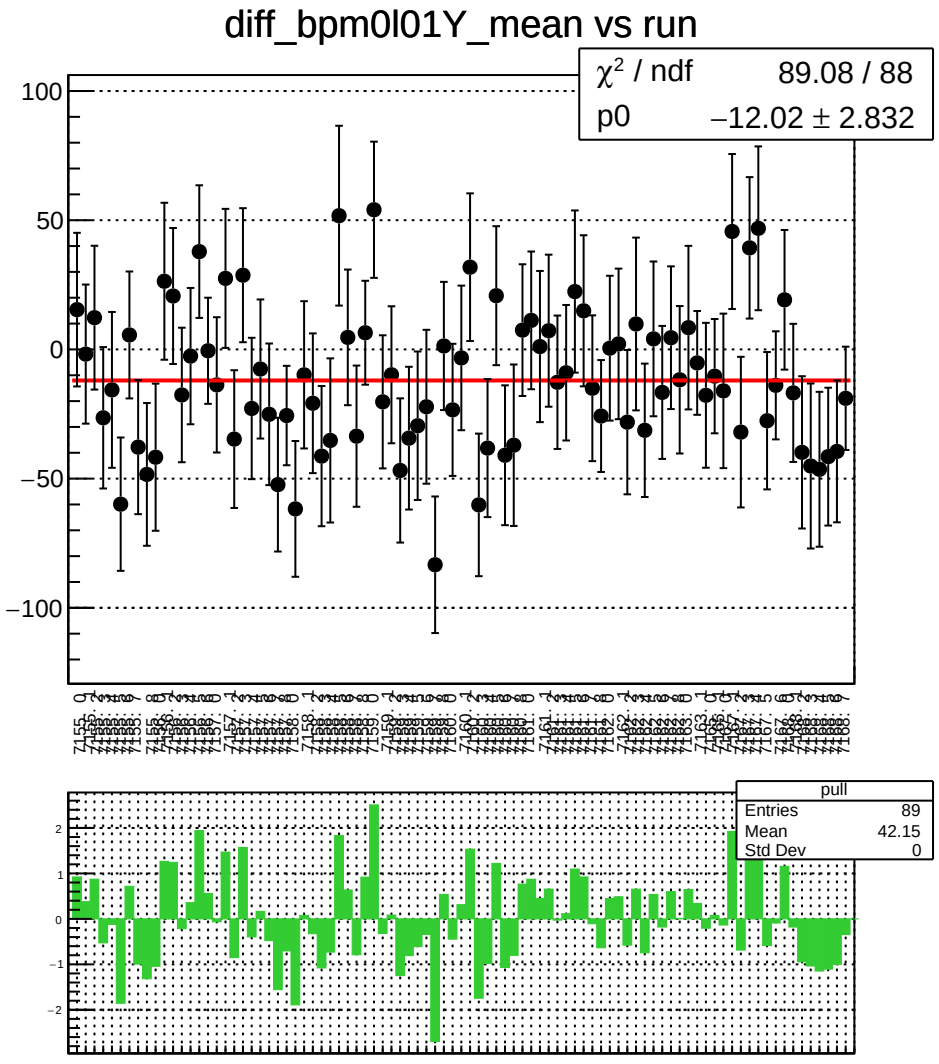

pull1D
Entries 89
Mean 0.01188
Std Dev 1.035

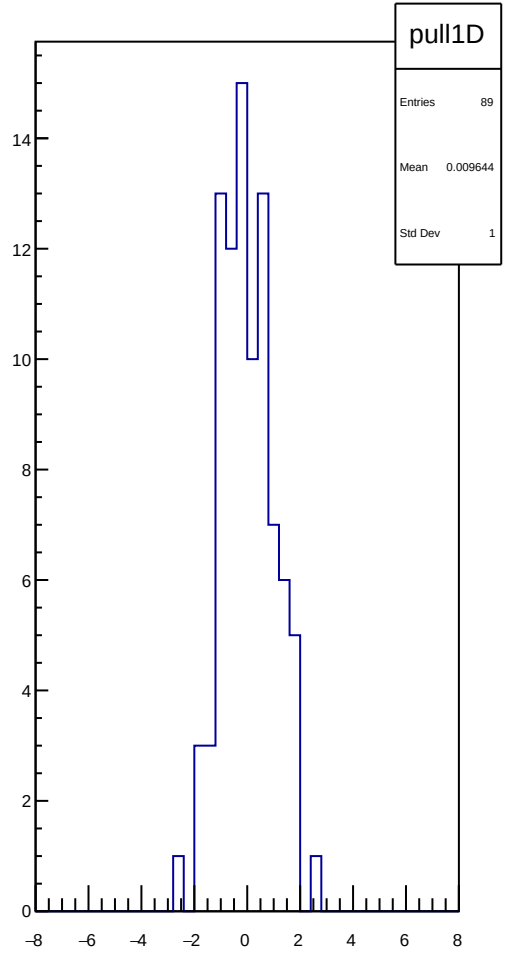

diff_bpm0i01aY_rms vs run
χ² / ndf 1635 / 88
p0 1717 ± 1.306
1850
1800
1750
1700
1650
1600
1550
1500

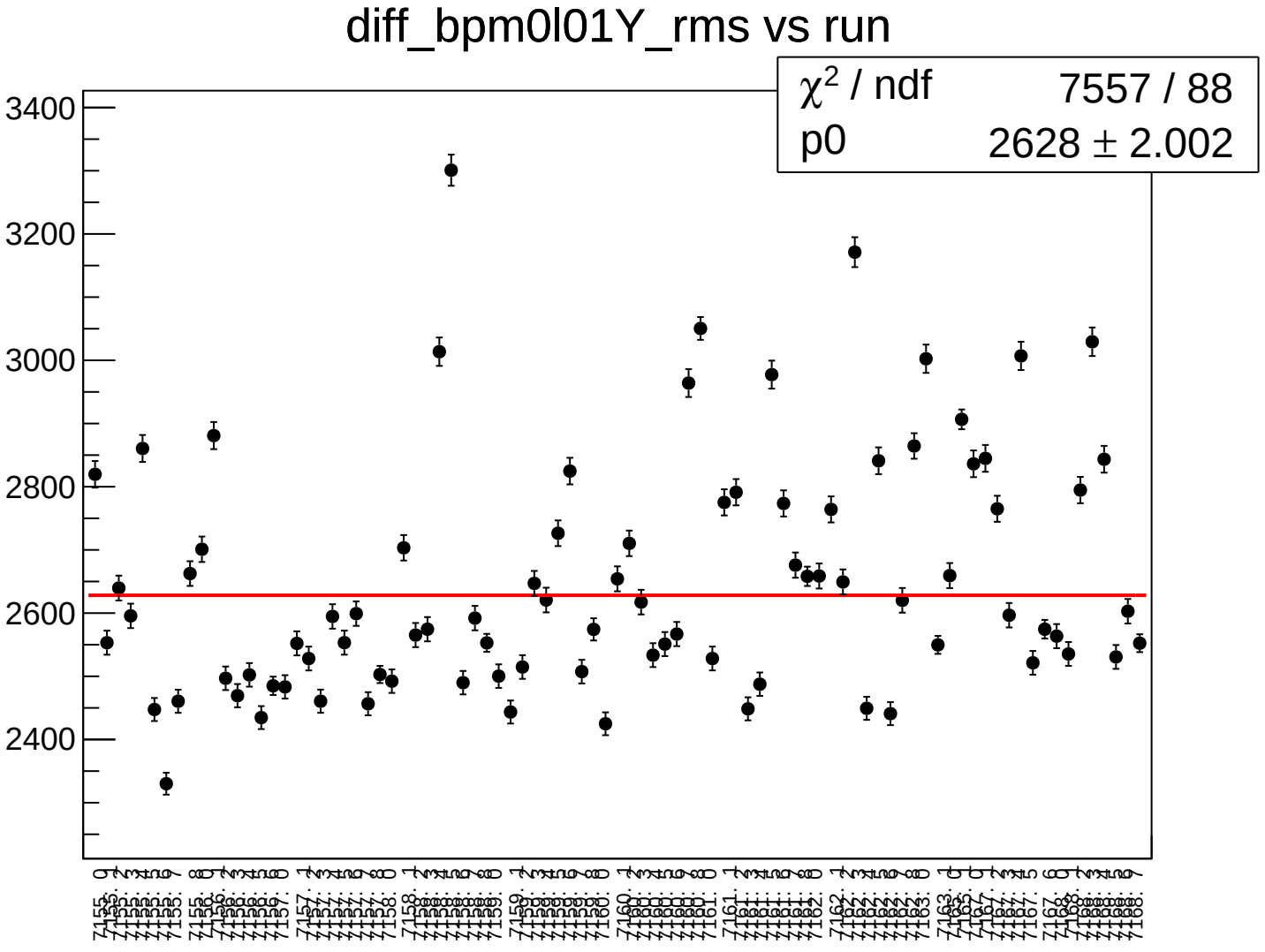

diff_bpm0l01X_mean vs run
χ² / ndf 78.13 / 88
p0 2.399 ± 4.104
pull
Entries 89
Mean −409.2
Std Dev 0

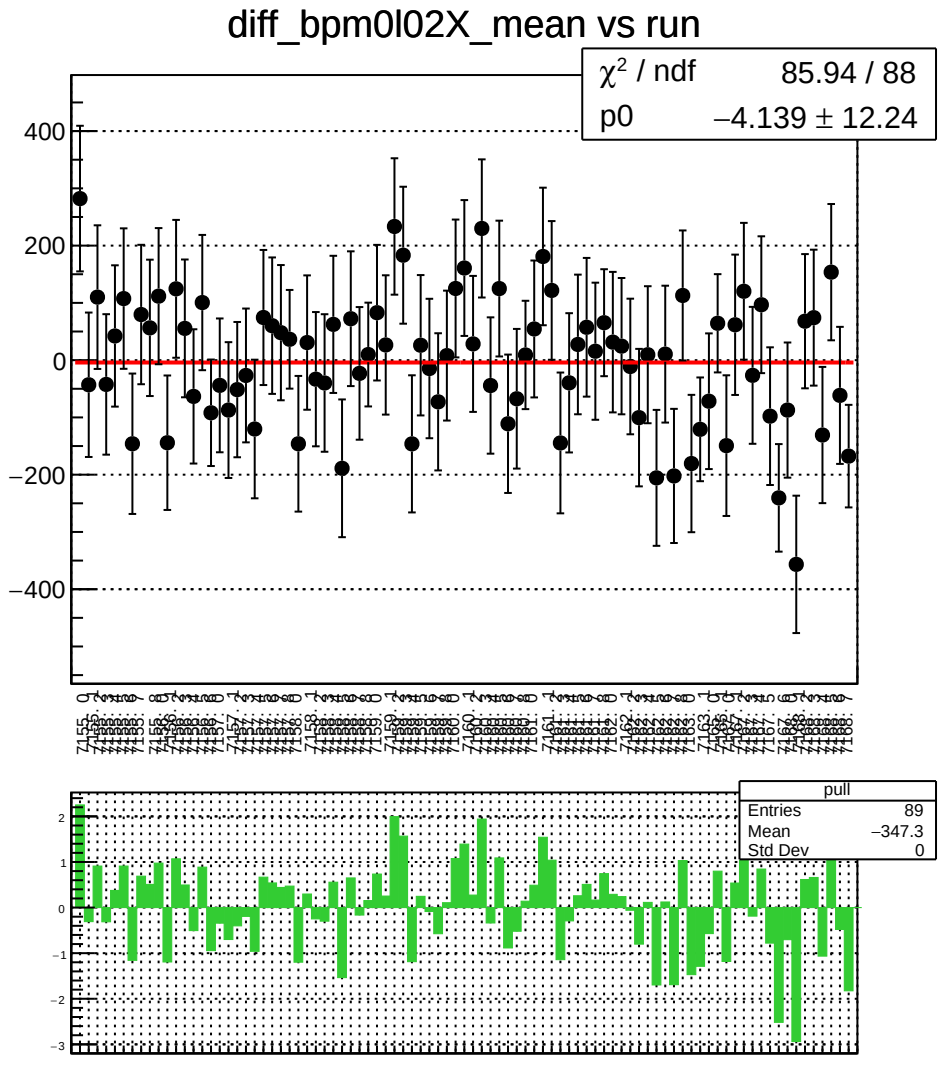

pull1D
Entries 89
Mean 0.01325
Std Dev 0.9368

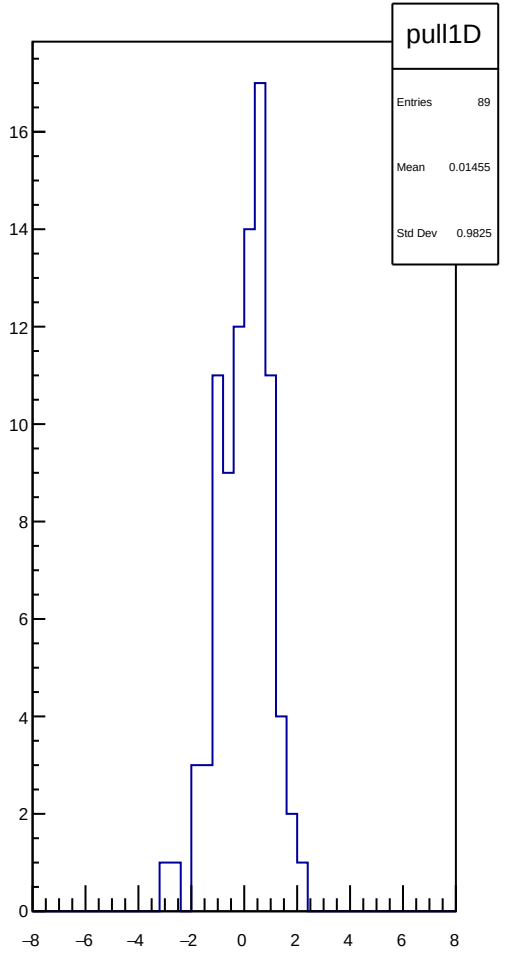

diff_bpm0l01X_rms vs run
χ² / ndf 670.3 / 88
p0 3816 ± 2.902
4100
4000
3900
3800
3700
3600

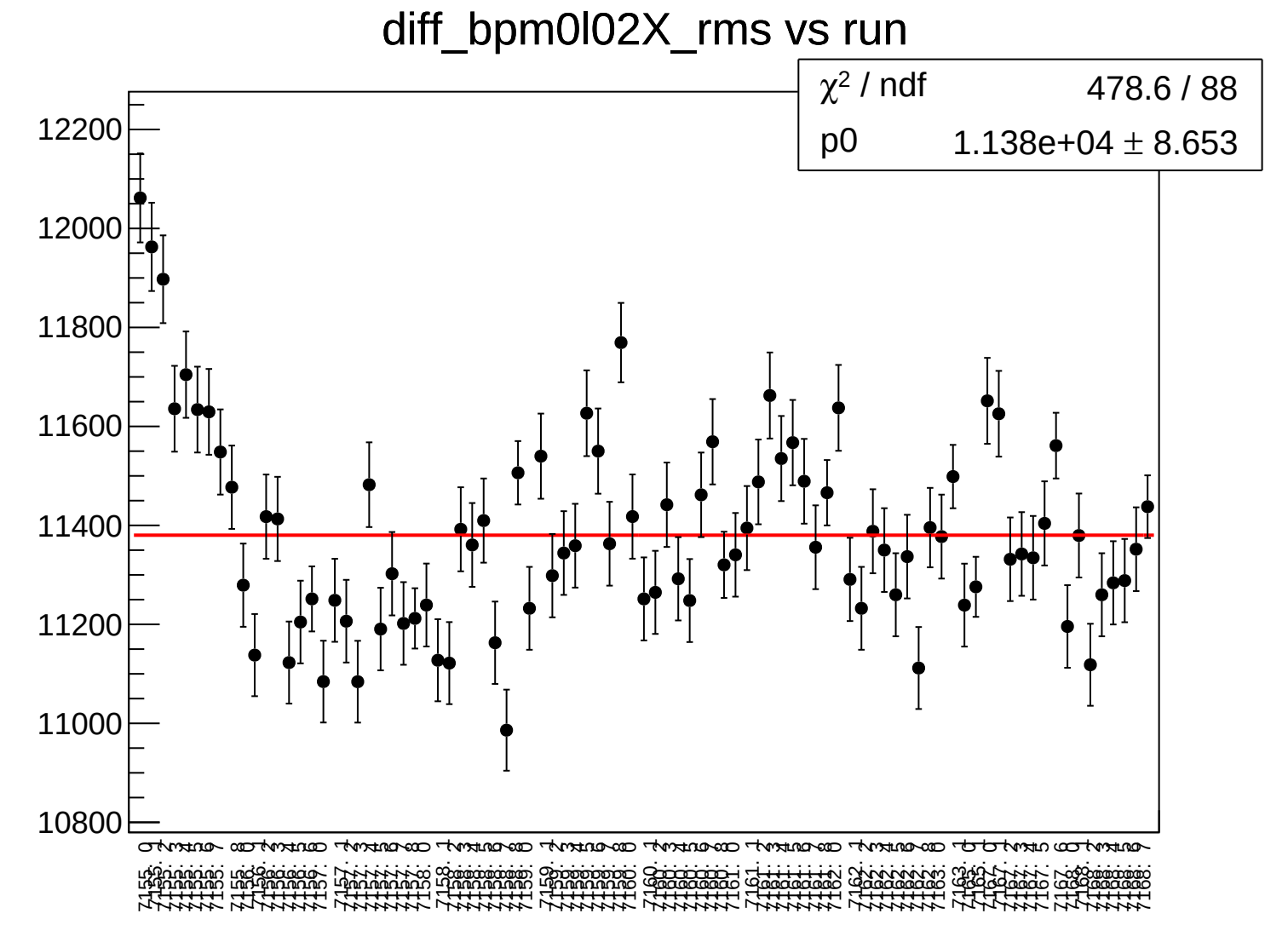

diff_bpm0l01Y_mean vs run
χ² / ndf 89.08 / 88
p0 −12.02 ± 2.832
100
50
0
−50
−100
pull
Entries 89
Mean 42.15
Std Dev 0
2
1
0
−1
−2

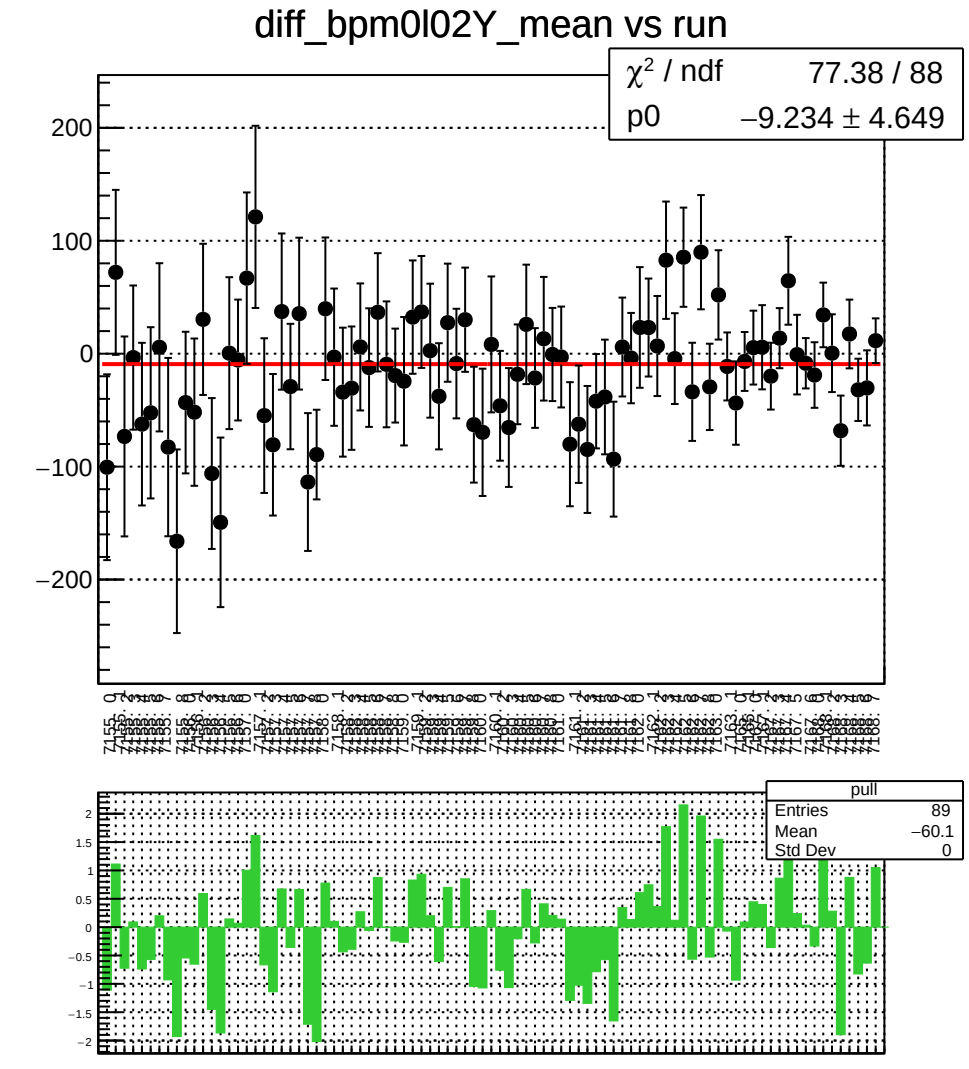

pull1D
Entries 89
Mean 0.009644
Std Dev 1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

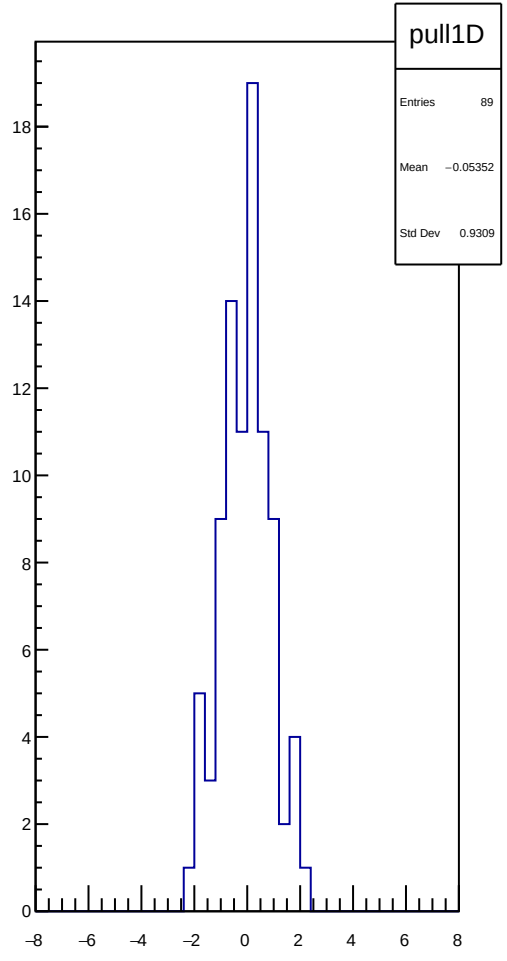

diff_bpm0l01Y_rms vs run
χ² / ndf 7557 / 88
p0 2628 ± 2.002
3400
3200
3000
2800
2600
2400

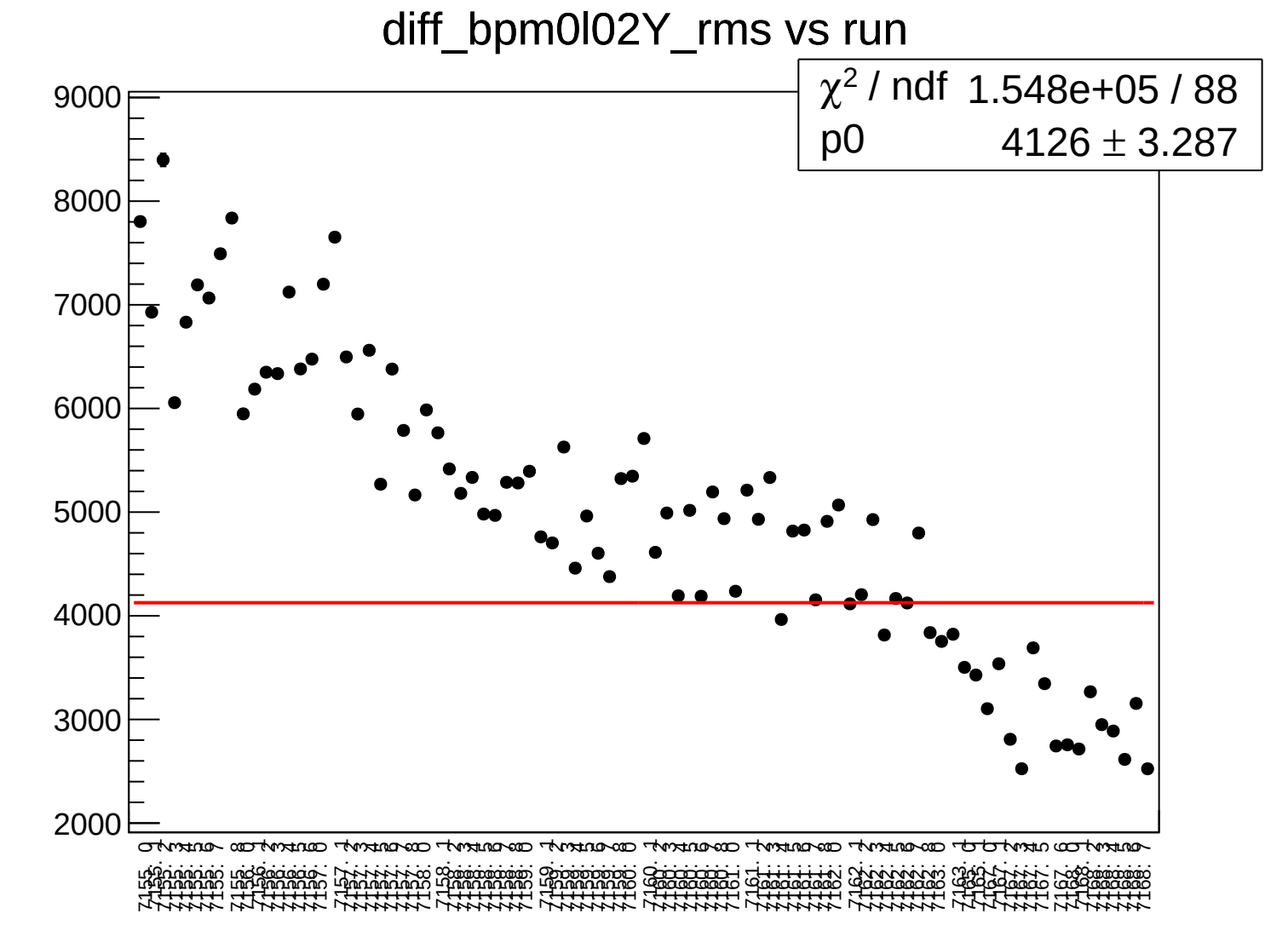

diff_bpm0l02X_mean vs run
χ² / ndf 85.94 / 88
p0 −4.139 ± 12.24
400
200
0
−200
−400
pull
Entries 89
Mean −347.3
Std Dev 0
2
1
0
−1
−2
−3

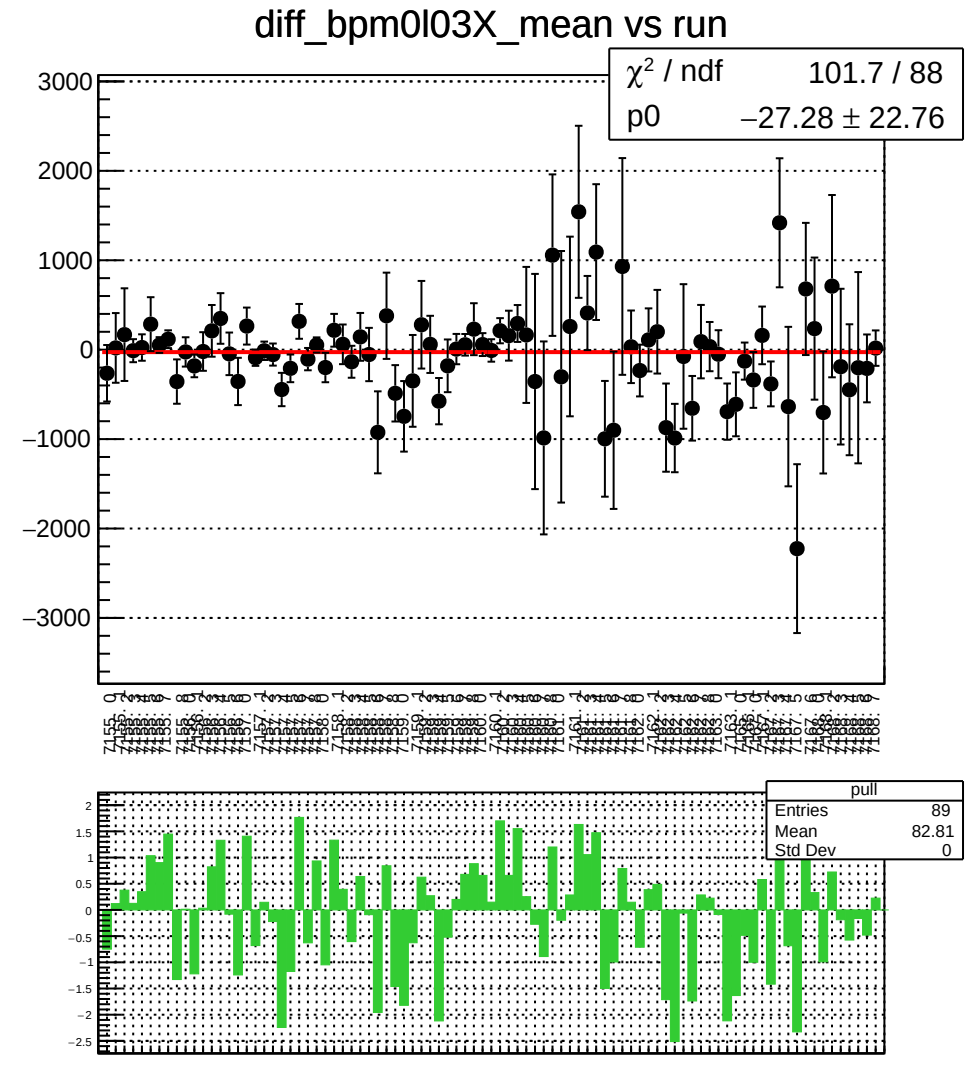

pull1D
Entries 89
Mean 0.01455
Std Dev 0.9825
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

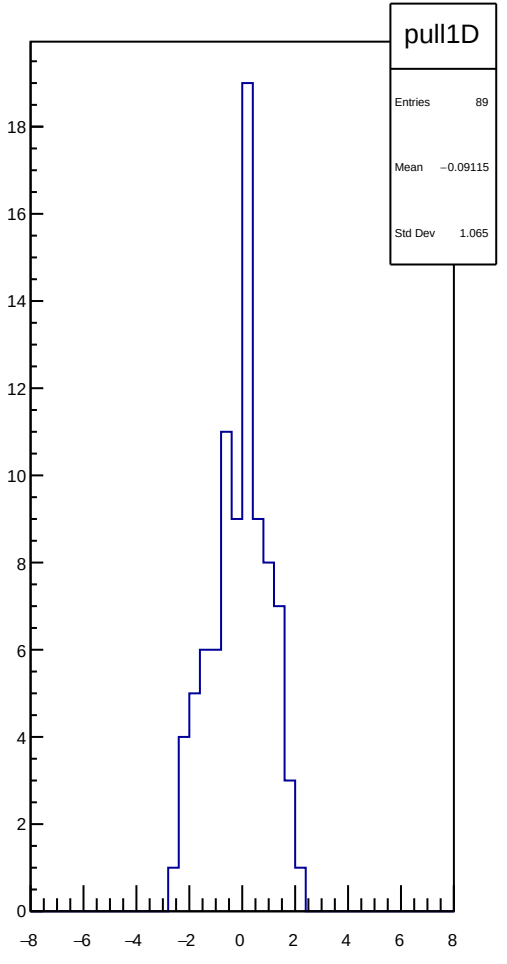

diff_bpm0l02X_rms vs run
χ² / ndf 478.6 / 88
p0 1.138e+04 ± 8.653
12200
12000
11800
11600
11400
11200
11000
10800

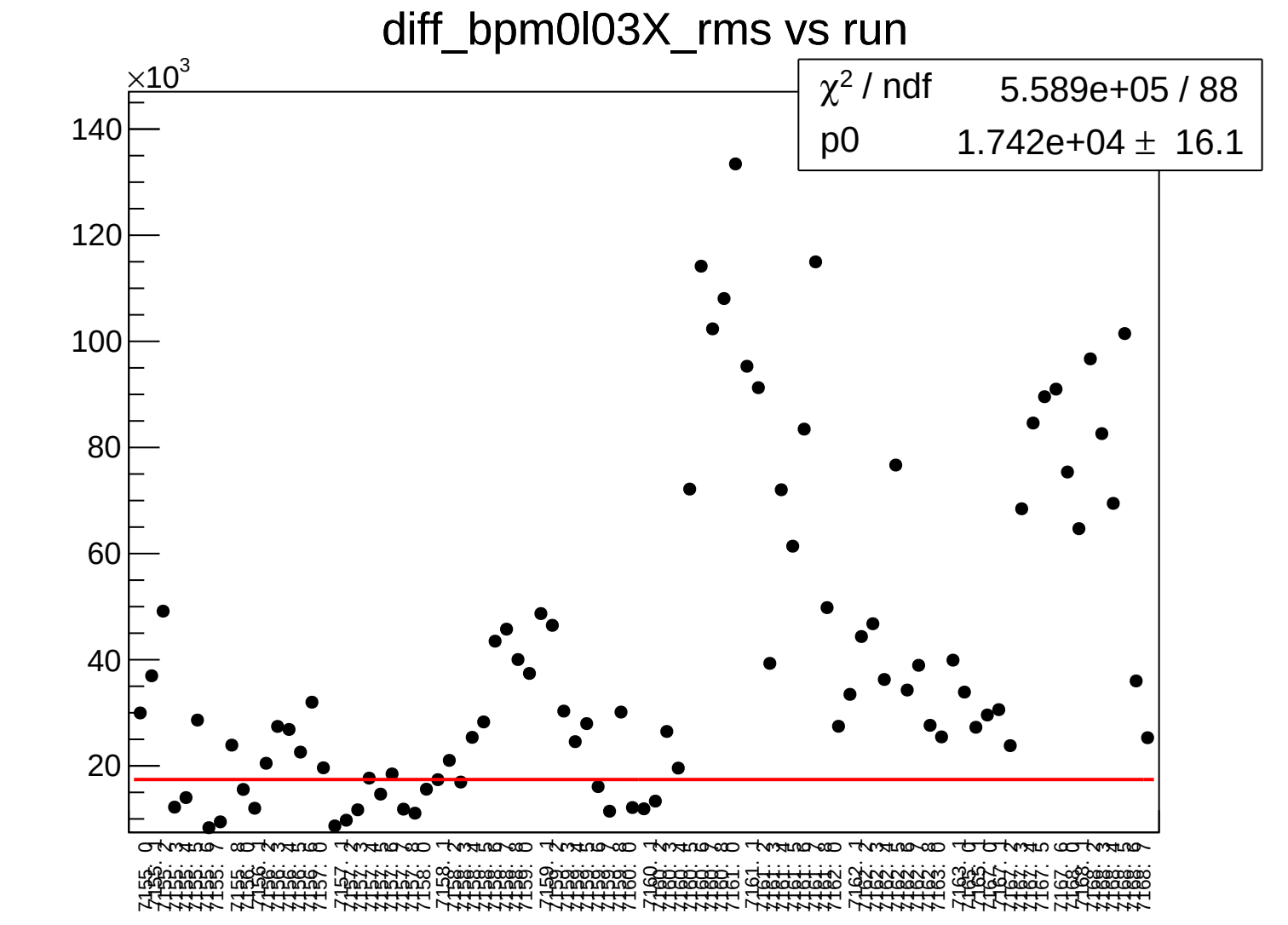

diff_bpm0l02Y_mean vs run
χ^2 / ndf 77.38 / 88
p0 −9.234 ± 4.649
200
100
0
−100
−200
pull
Entries 89
Mean −60.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

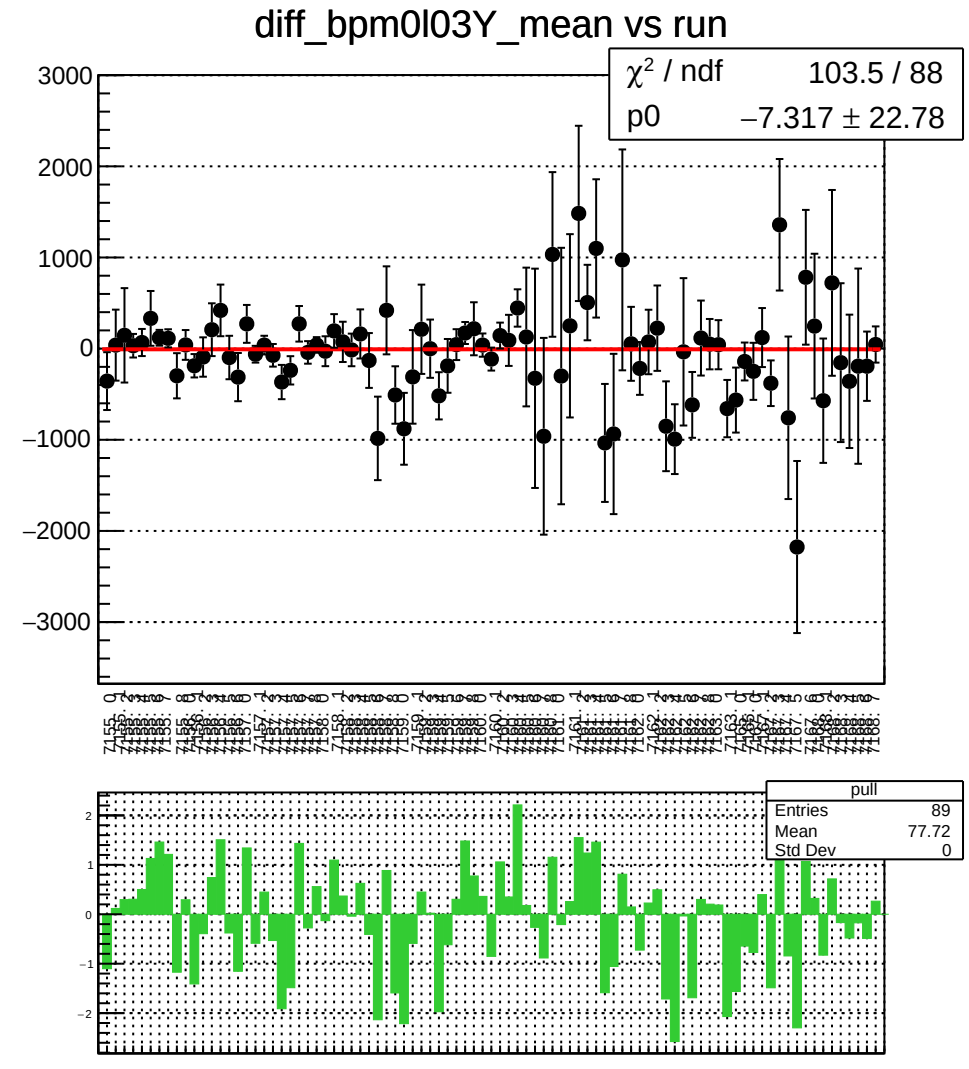

pull1D
Entries 89
Mean −0.05352
Std Dev 0.9309
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

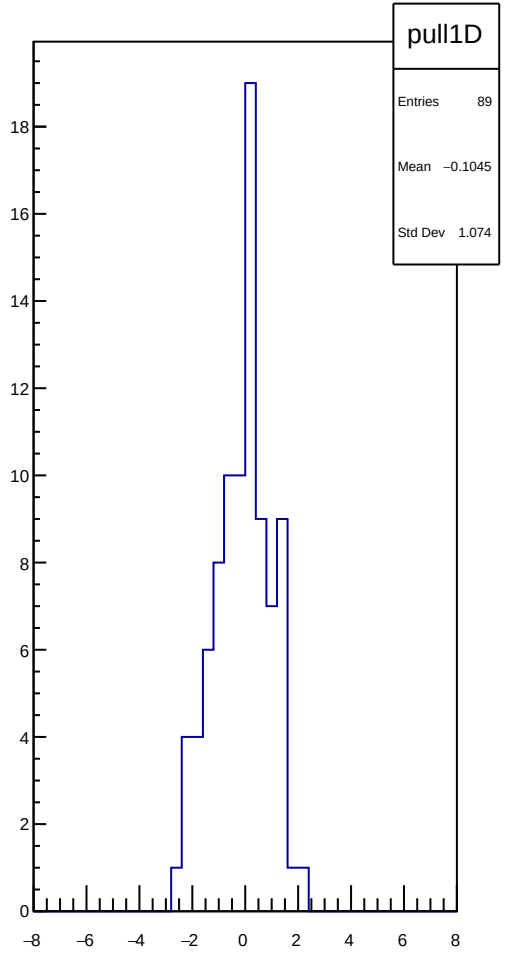

diff_bpm0l02Y_rms vs run
χ^2 / ndf 1.548e+05 / 88
p0 4126 ± 3.287
9000
8000
7000
6000
5000
4000
3000
2000

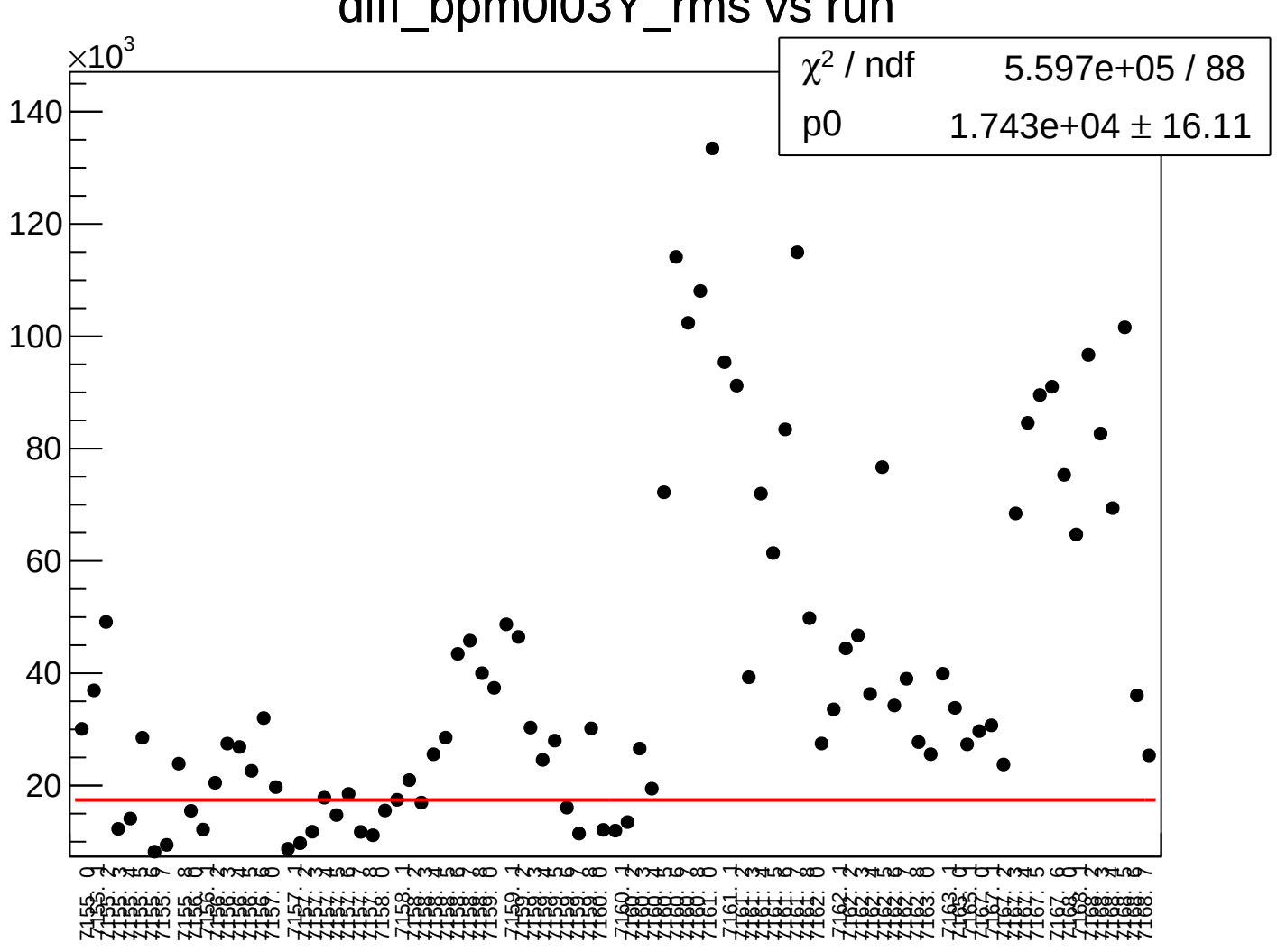

diff_bpm0l03X_mean vs run
χ^2 / ndf 101.7 / 88
p0 −27.28 ± 22.76
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 82.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

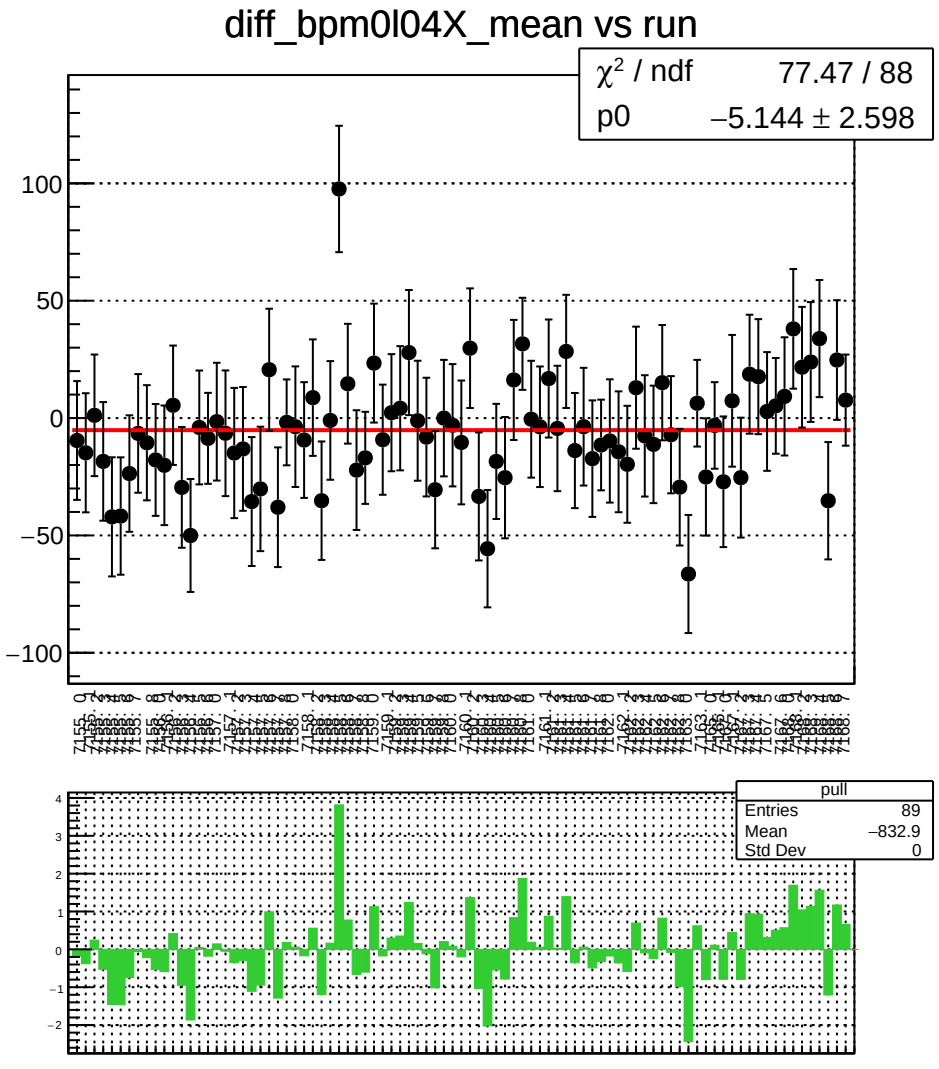

pull1D
Entries 89
Mean −0.09115
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

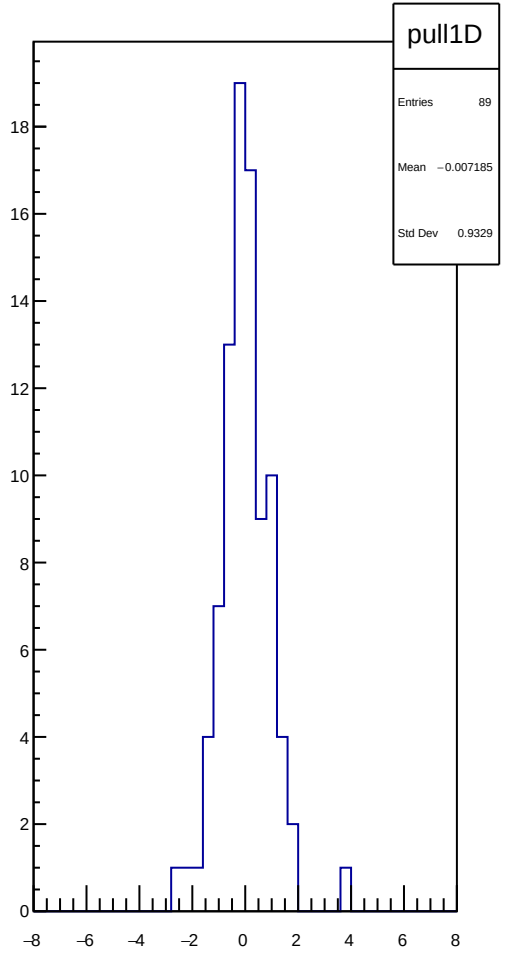

diff_bpm0l03X_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 5.589e+05 / 88
p0 1.742e+04 ± 16.1

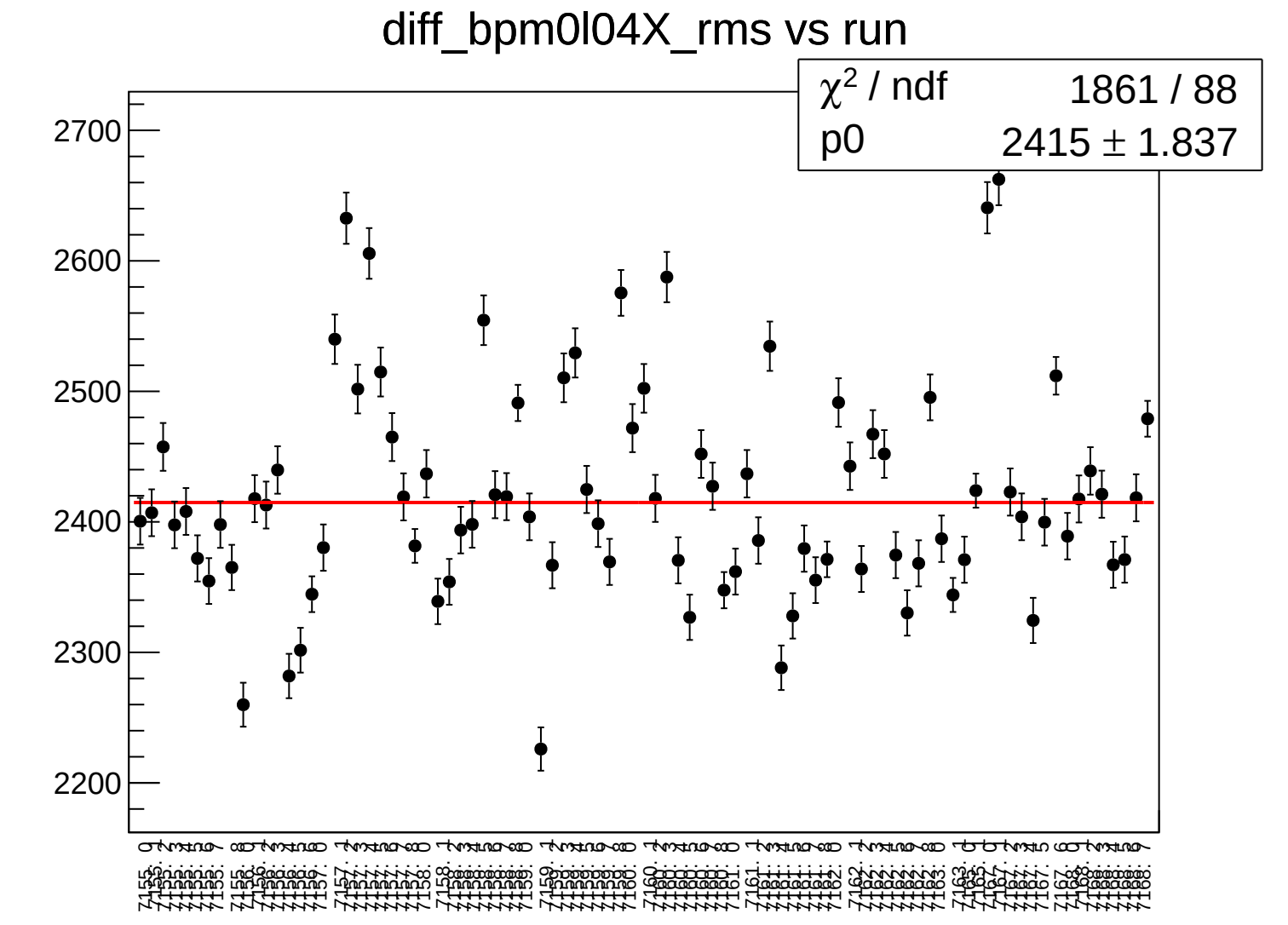

diff_bpm0l03Y_mean vs run
χ² / ndf 103.5 / 88
p0 −7.317 ± 22.78
pull
Entries 89
Mean 77.72
Std Dev 0

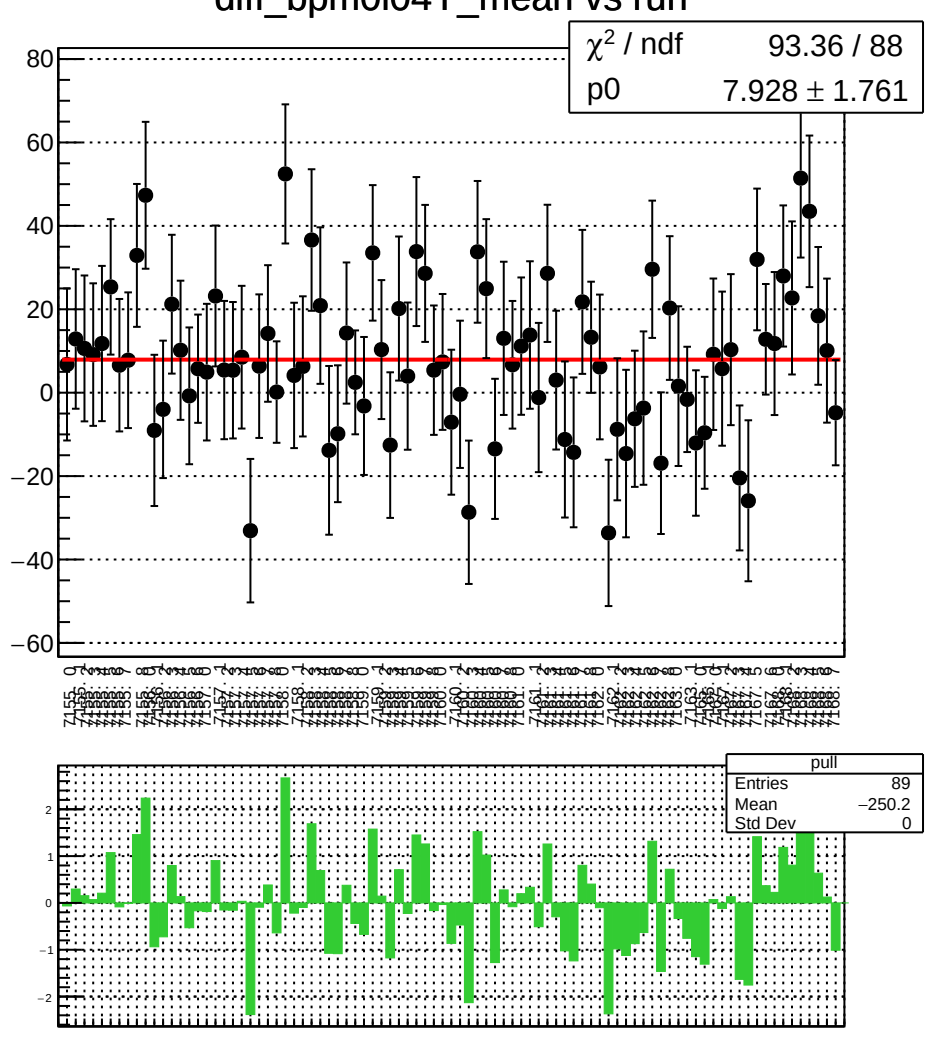

pull1D
Entries 89
Mean −0.1045
Std Dev 1.074

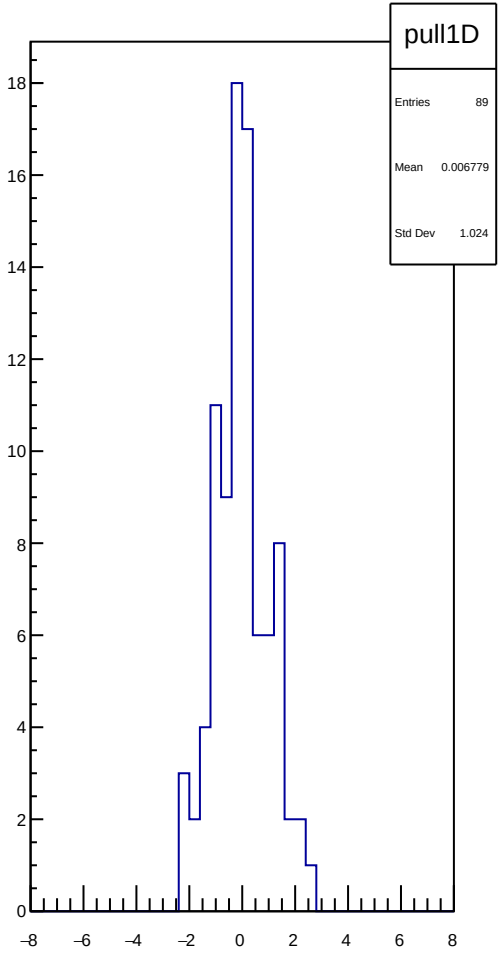

diff_bpm0l03Y_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 5.597e+05 / 88
p0 1.743e+04 ± 16.11

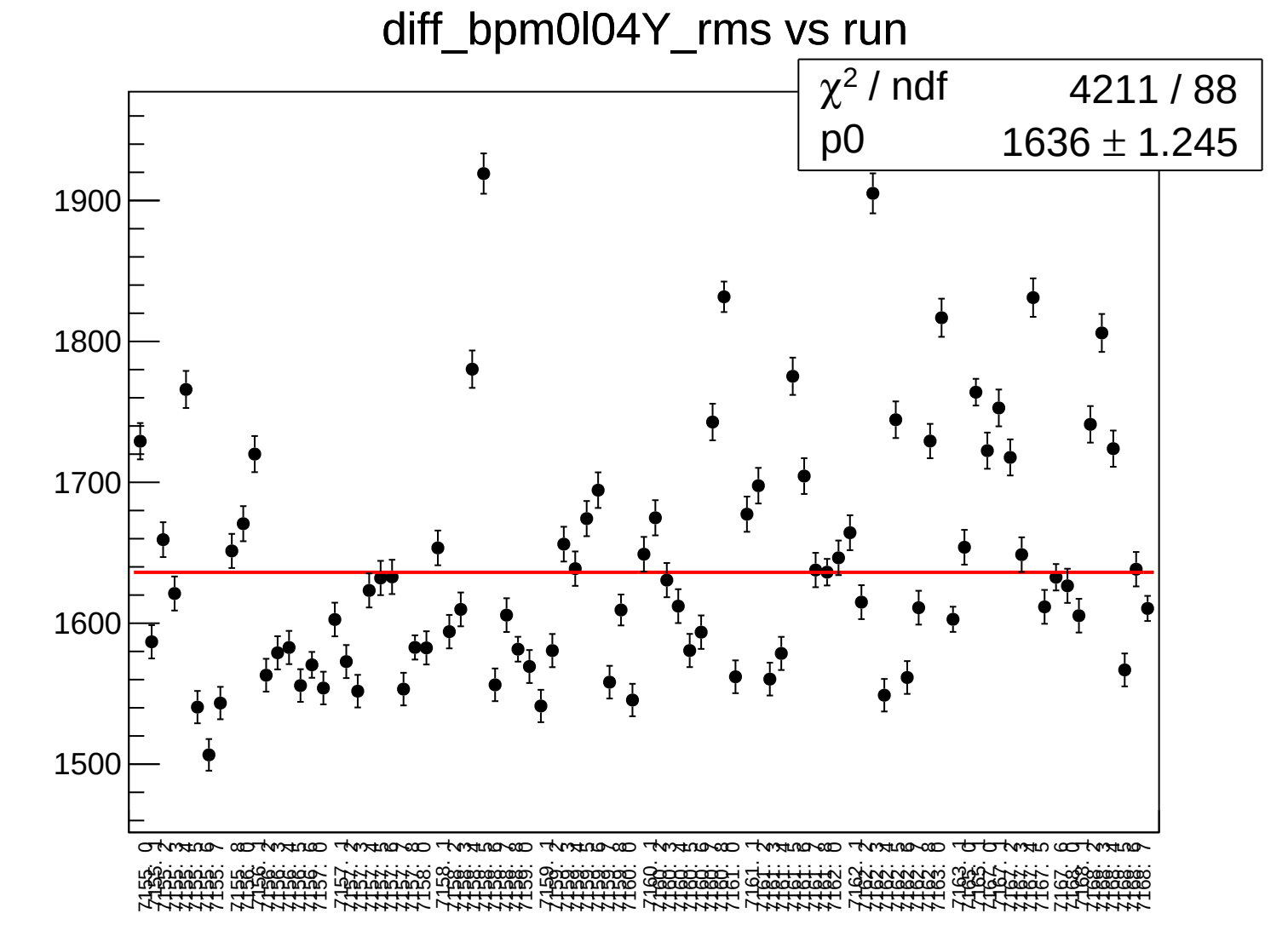

diff_bpm0l04X_mean vs run
χ² / ndf 77.47 / 88
p0 −5.144 ± 2.598
100
50
0
−50
−100
pull
Entries 89
Mean −832.9
Std Dev 0
4
3
2
1
0
−1
−2

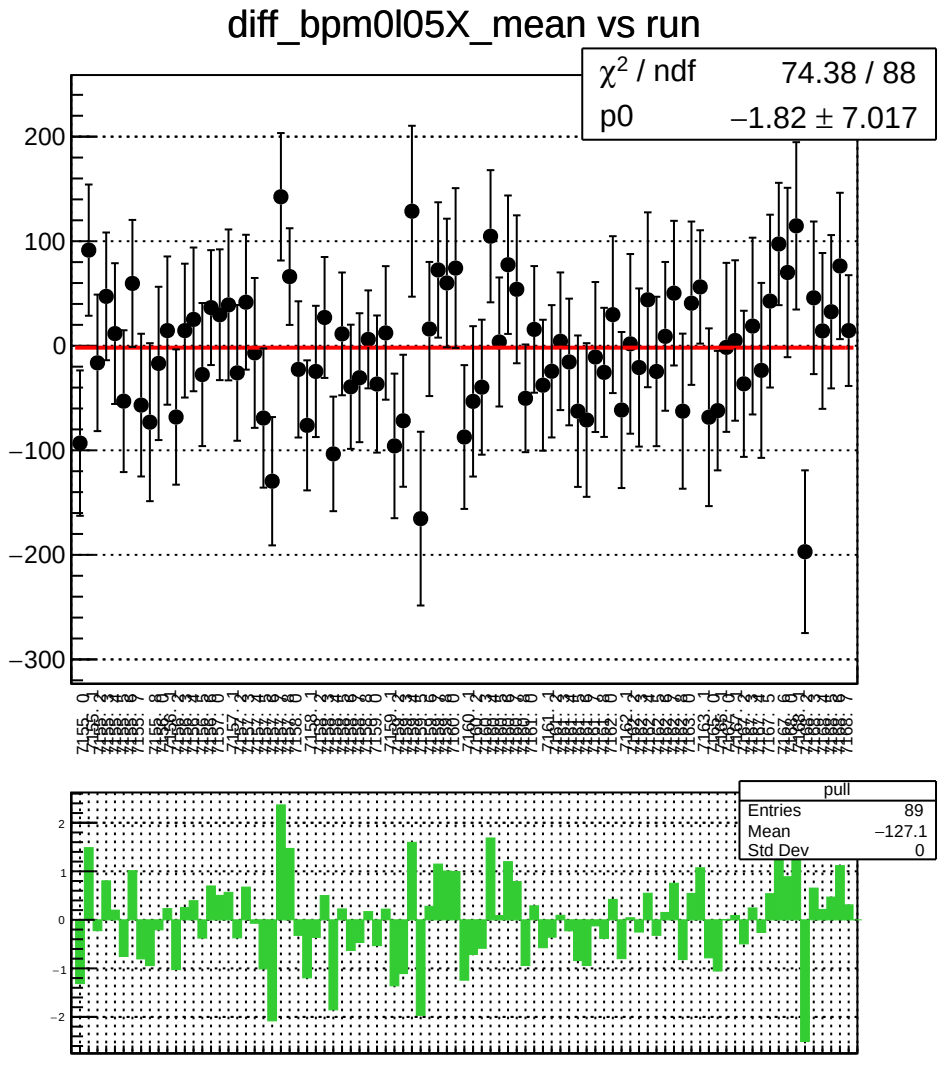

pull1D
Entries 89
Mean −0.007185
Std Dev 0.9329
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

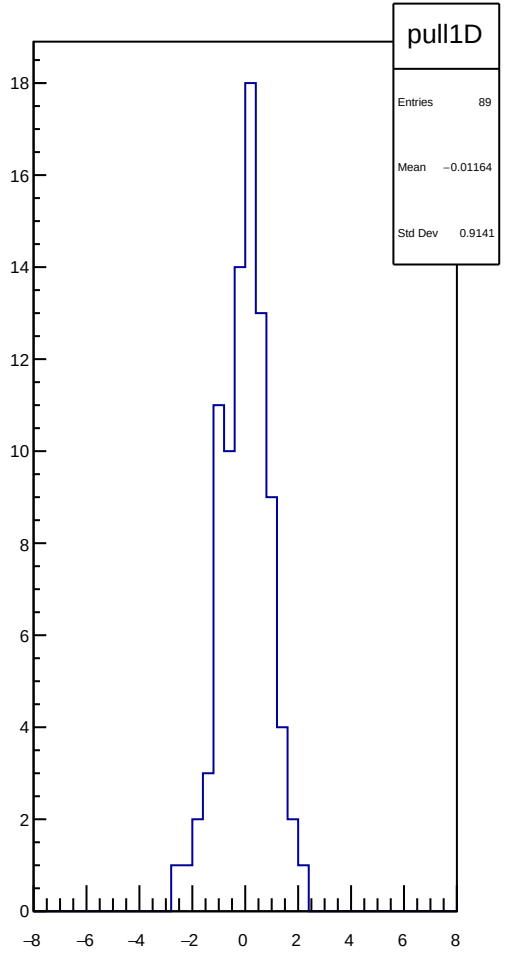

diff_bpm0l04X_rms vs run
χ² / ndf 1861 / 88
p0 2415 ± 1.837
2700
2600
2500
2400
2300
2200

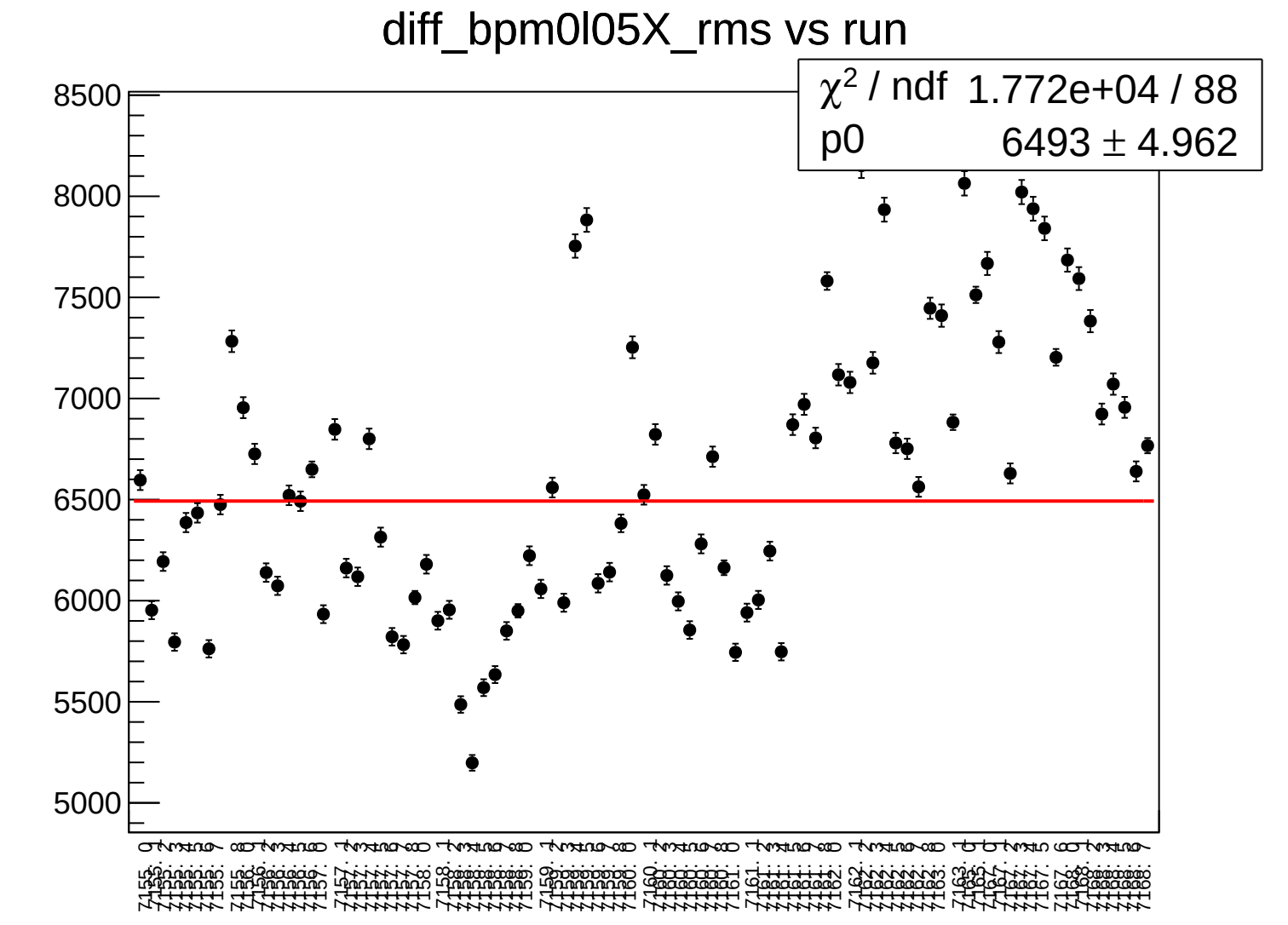

diff_bpm0l04Y_mean vs run
χ^2 / ndf 93.36 / 88
p0 7.928 ± 1.761
pull
Entries 89
Mean −250.2
Std Dev 0

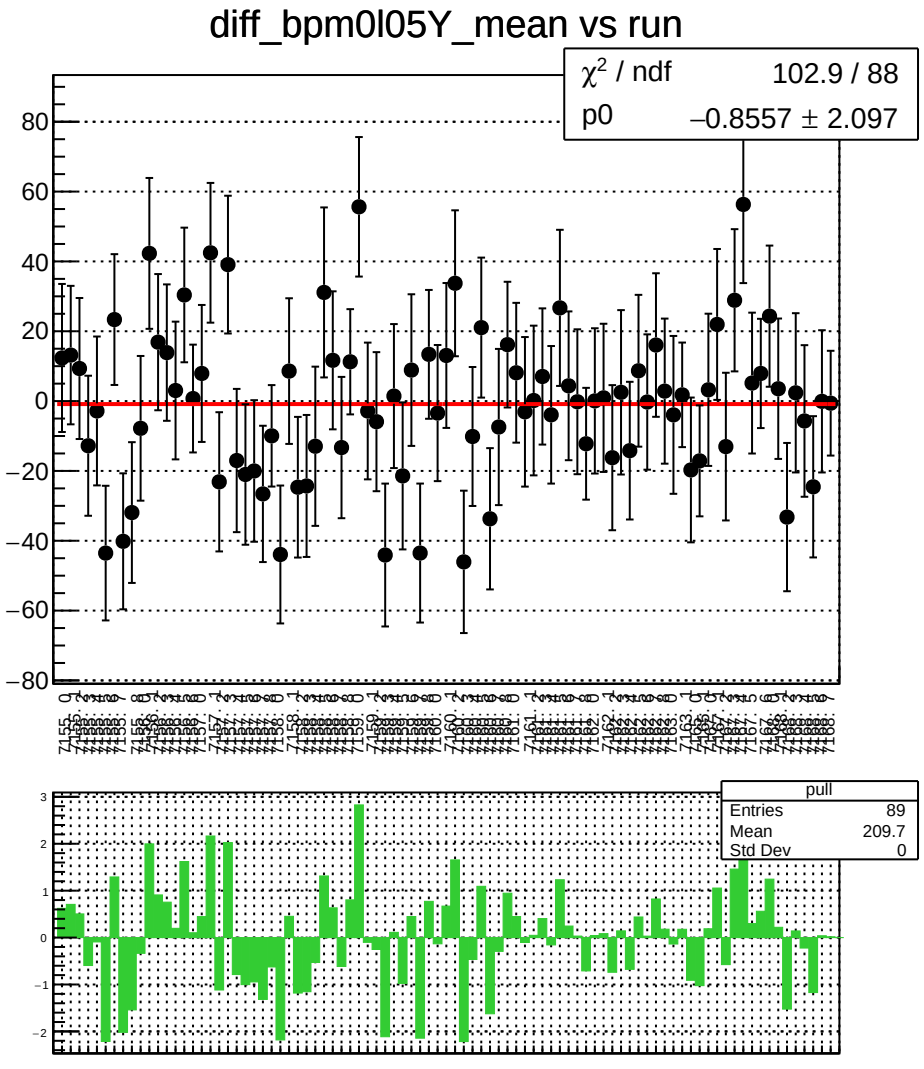

pull1D
Entries 89
Mean 0.006779
Std Dev 1.024

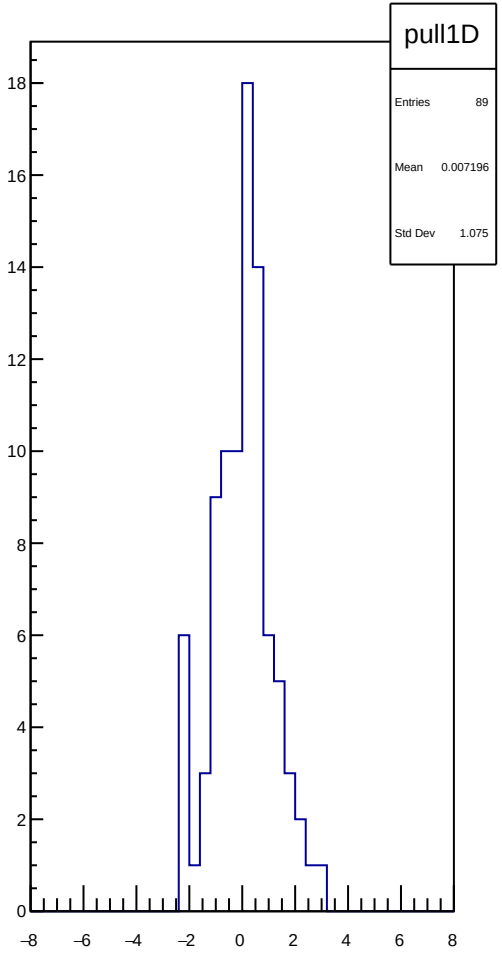

diff_bpm0l04Y_rms vs run
χ² / ndf 4211 / 88
p0 1636 ± 1.245
1900
1800
1700
1600
1500

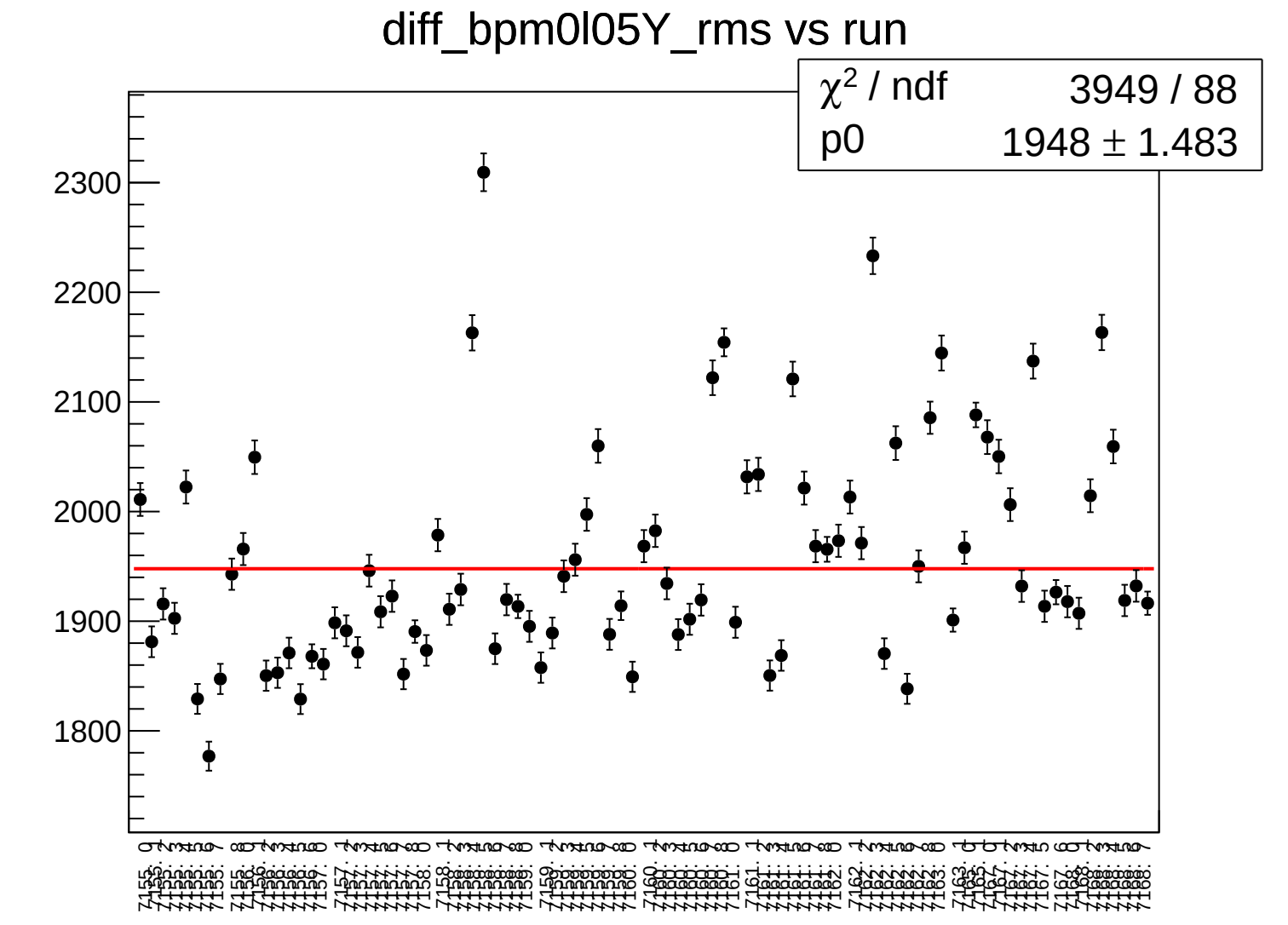

diff_bpm0l05X_mean vs run
χ² / ndf 74.38 / 88
p0 −1.82 ± 7.017
200
100
0
−100
−200
−300
pull
Entries 89
Mean −127.1
Std Dev 0
2
1
0
−1
−2

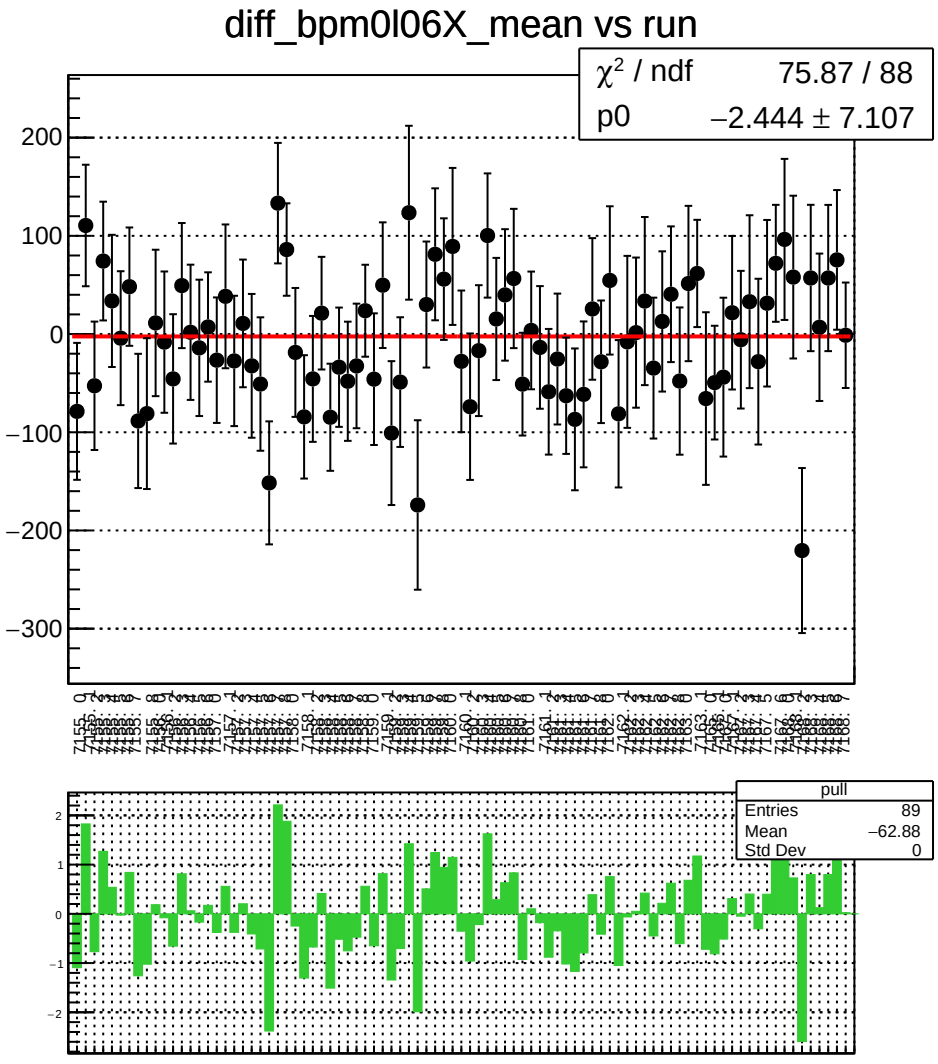

pull1D
Entries 89
Mean −0.01164
Std Dev 0.9141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

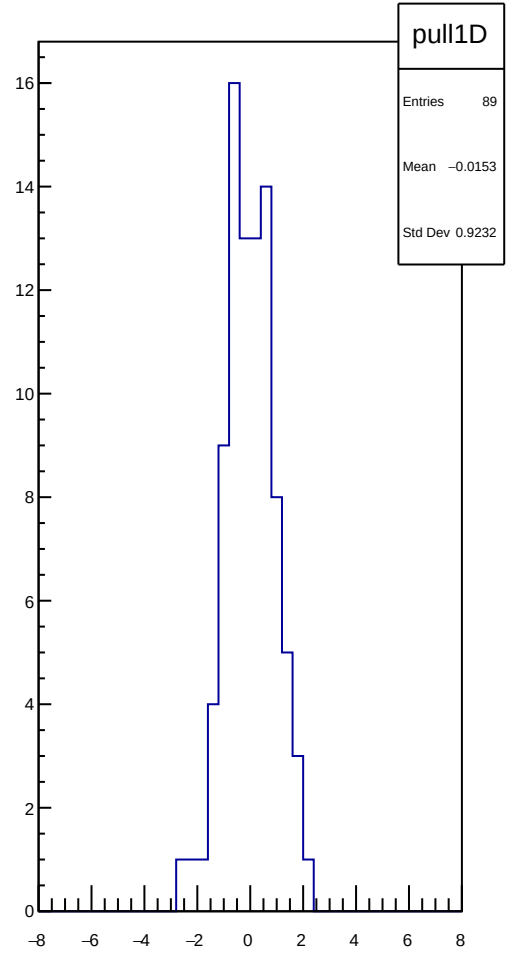

diff_bpm0l05X_rms vs run
χ² / ndf 1.772e+04 / 88
p0 6493 ± 4.962
8500
8000
7500
7000
6500
6000
5500
5000

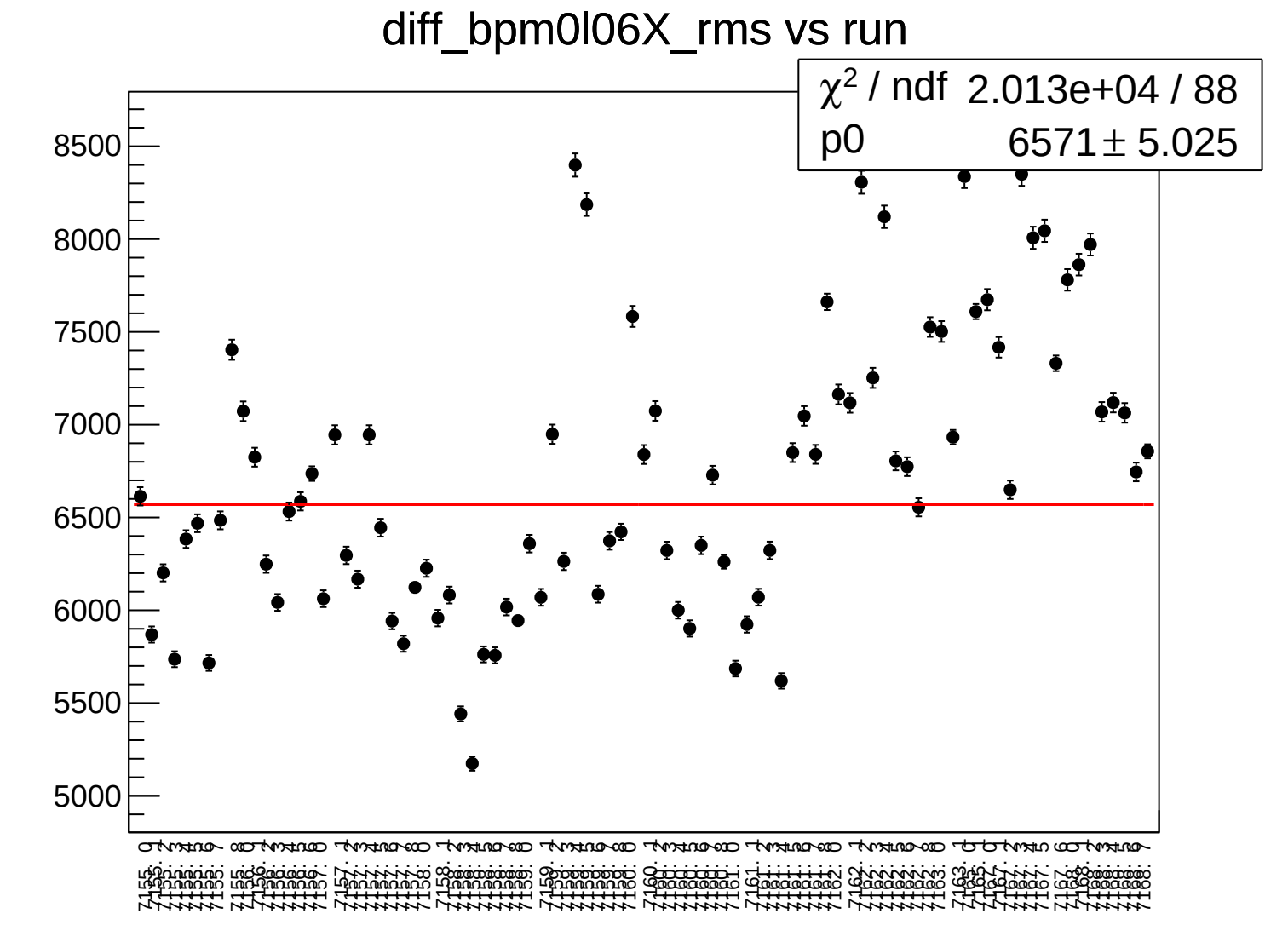

diff_bpm0l05Y_mean vs run
χ² / ndf 102.9 / 88
p0 −0.8557 ± 2.097
pull
Entries 89
Mean 209.7
Std Dev 0

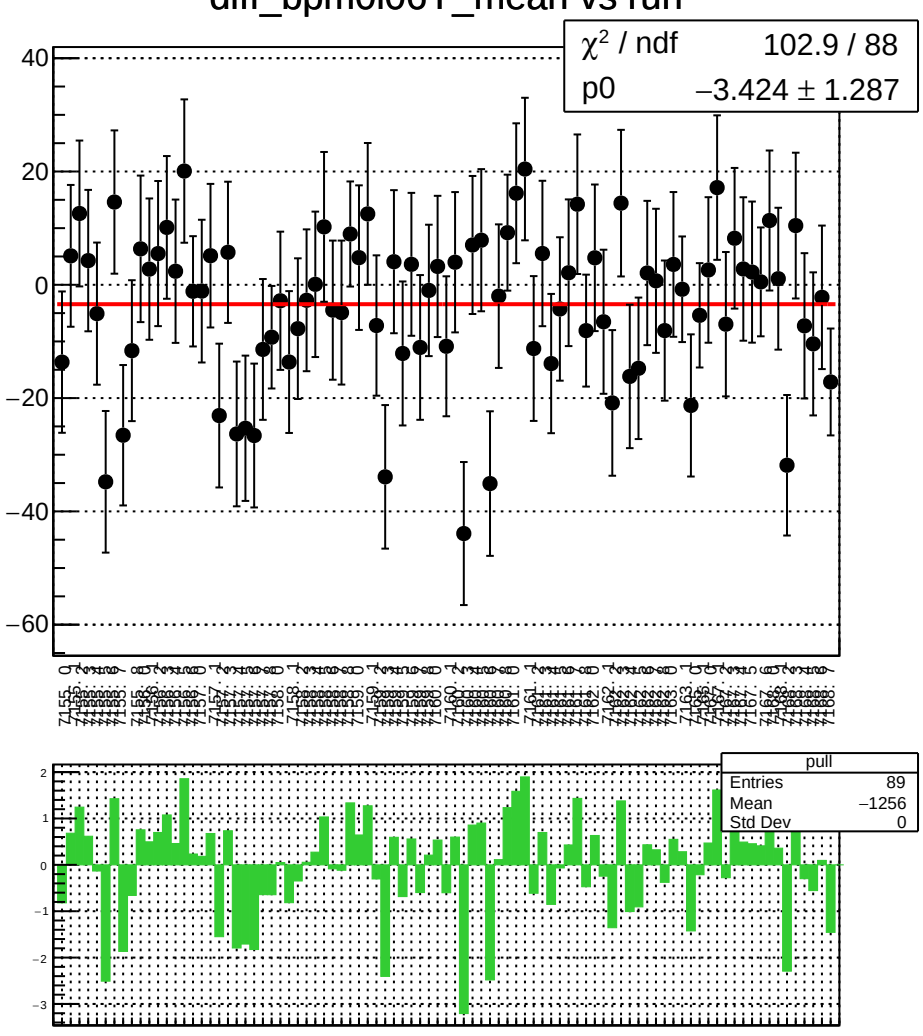

pull1D
Entries 89
Mean 0.007196
Std Dev 1.075

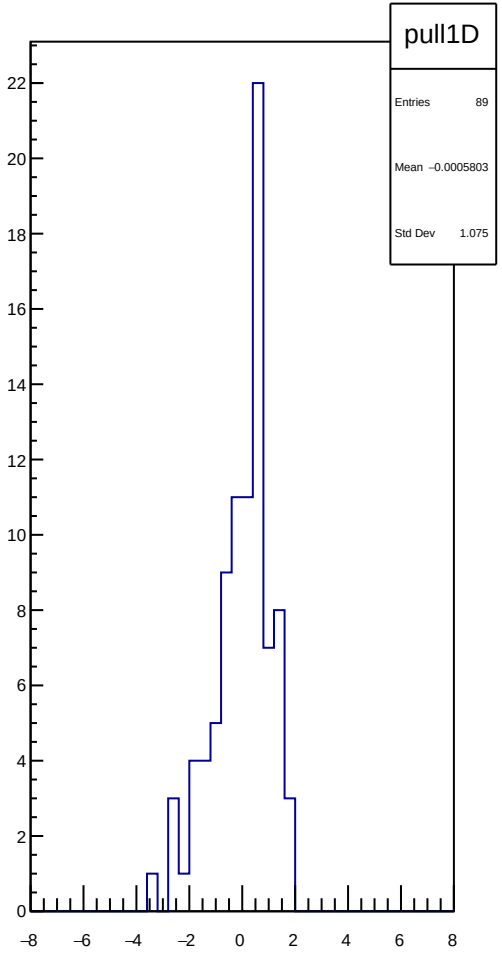

diff_bpm0l05Y_rms vs run
χ² / ndf 3949 / 88
p0 1948 ± 1.483
2300
2200
2100
2000
1900
1800

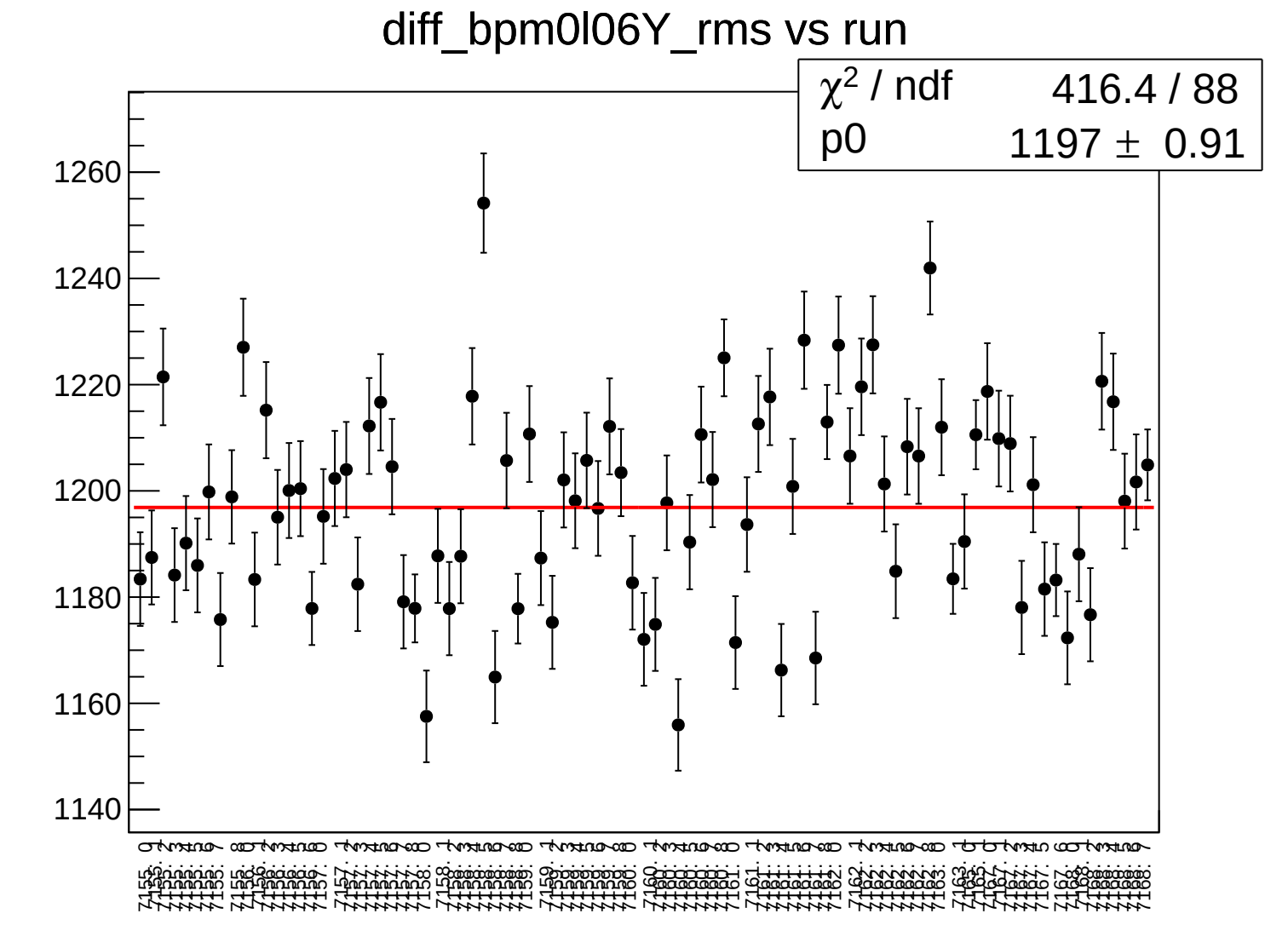

diff_bpm0l06X_mean vs run
χ² / ndf 75.87 / 88
p0 −2.444 ± 7.107
200
100
0
−100
−200
−300
pull
Entries 89
Mean −62.88
Std Dev 0
2
1
0
−1
−2

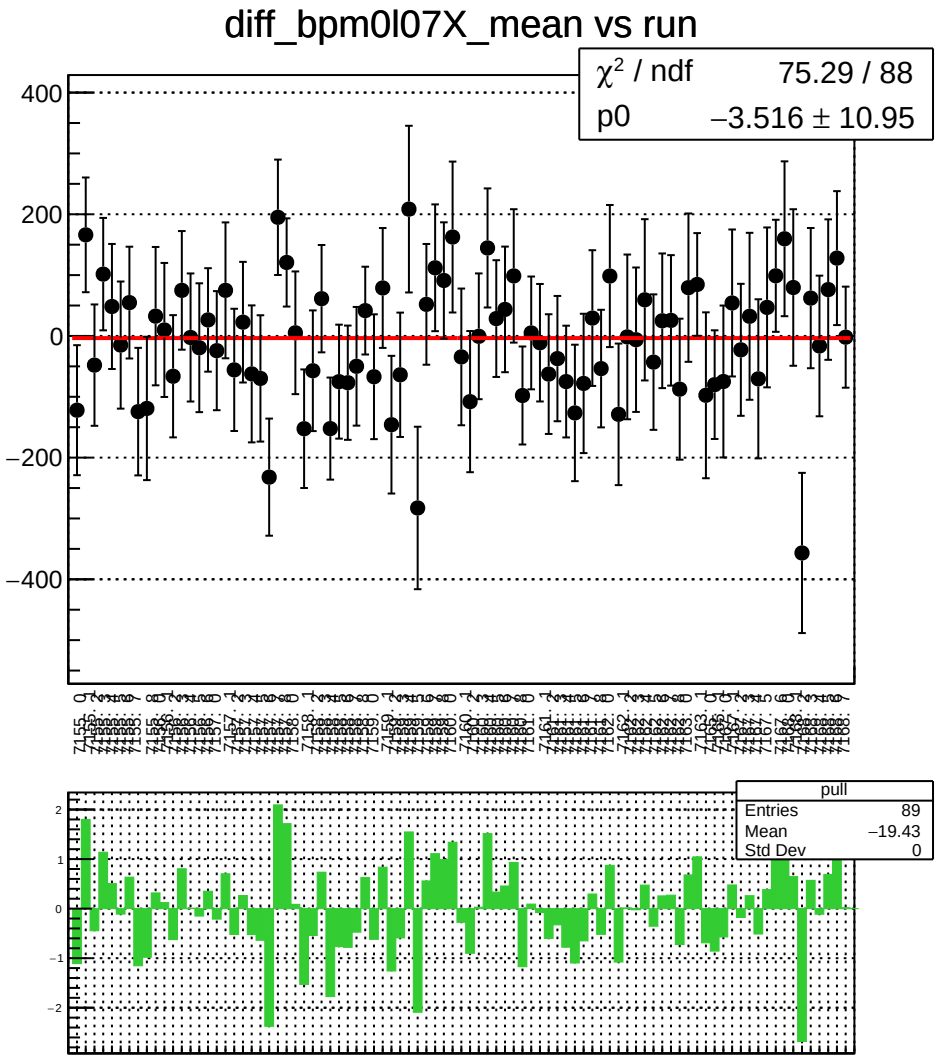

pull1D
Entries 89
Mean −0.0153
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

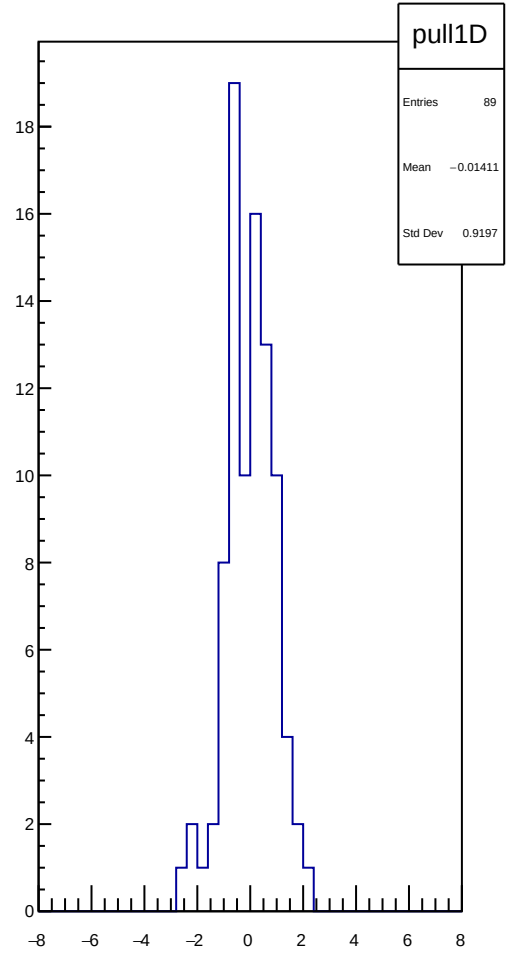

diff_bpm0l06X_rms vs run
χ^2 / ndf 2.013e+04 / 88
p0 6571 ± 5.025
8500
8000
7500
7000
6500
6000
5500
5000

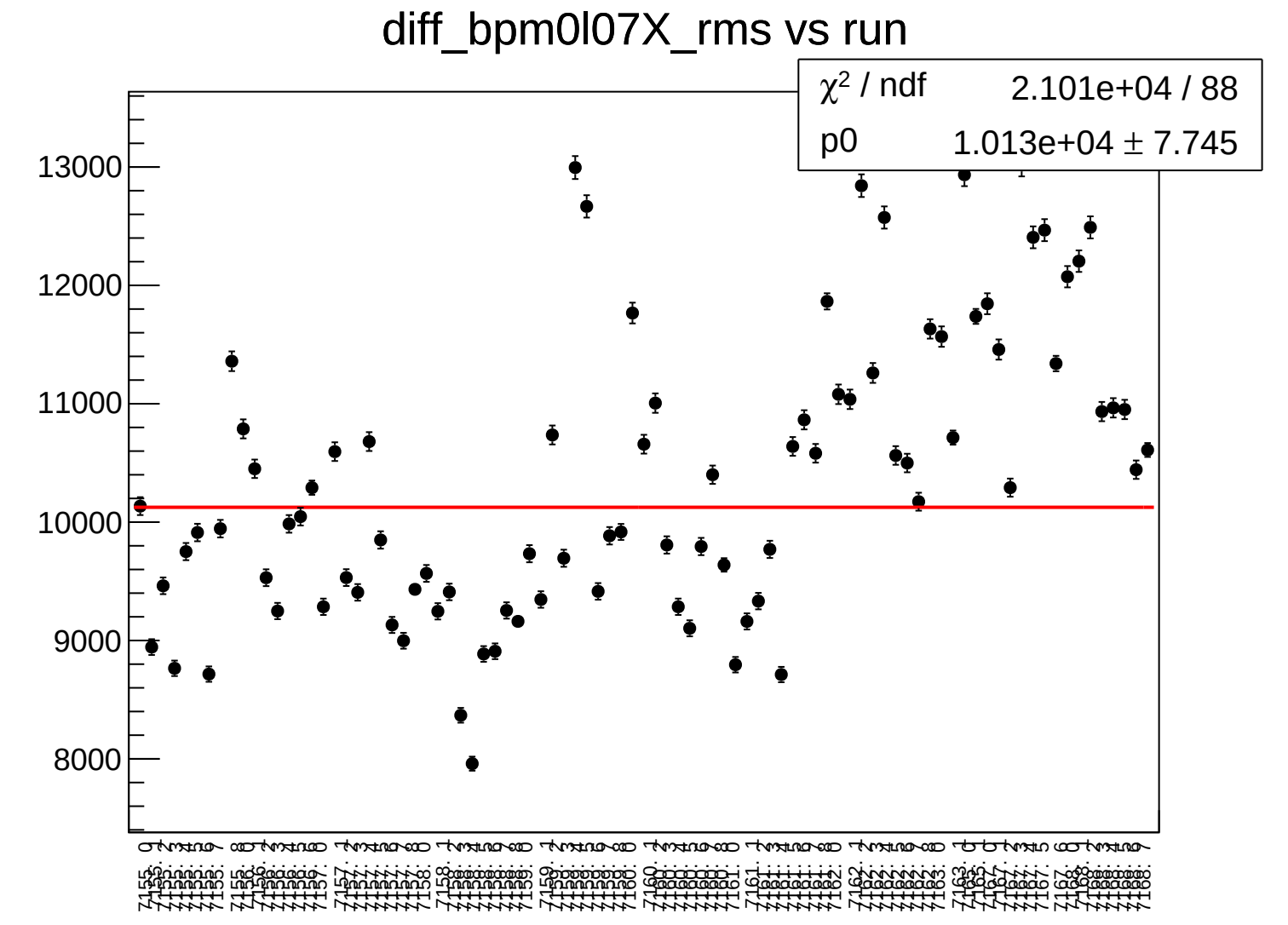

diff_bpm0l06Y_mean vs run
χ² / ndf 102.9 / 88
p0 −3.424 ± 1.287
pull
Entries 89
Mean −1256
Std Dev 0

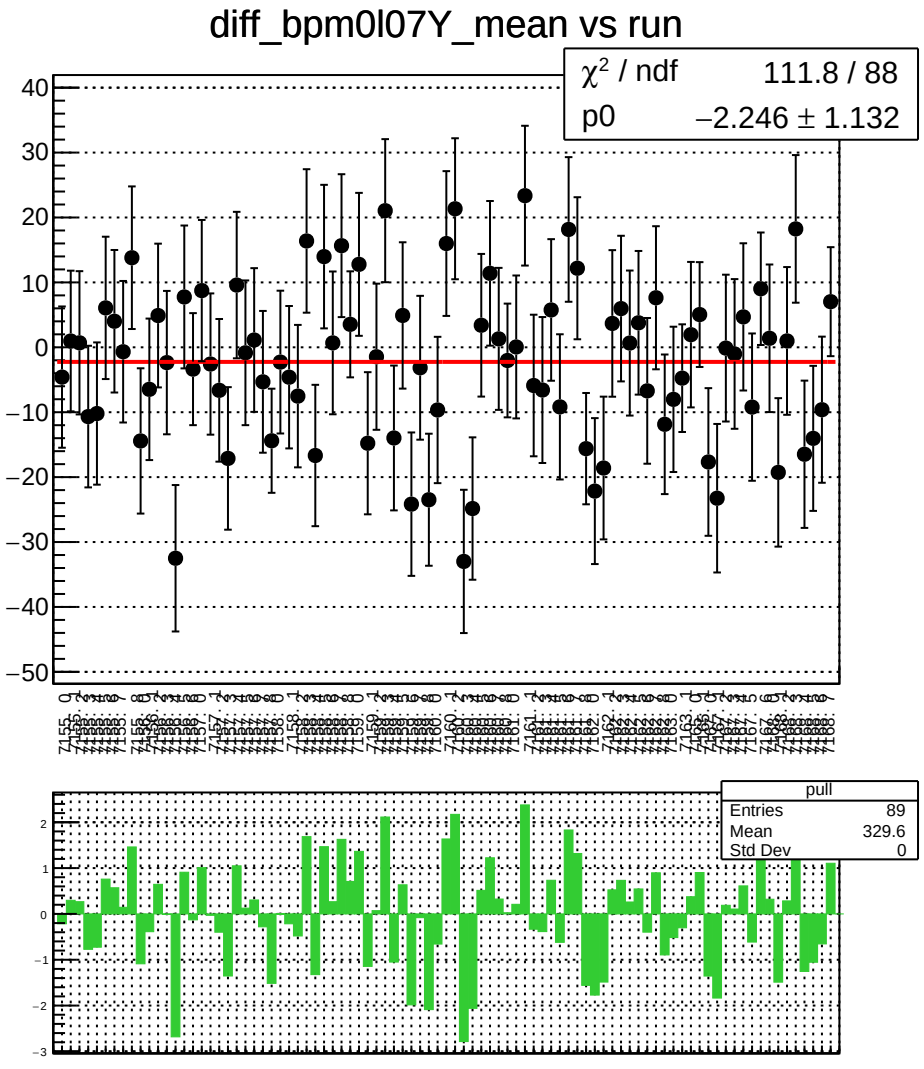

pull1D
Entries 89
Mean −0.0005803
Std Dev 1.075

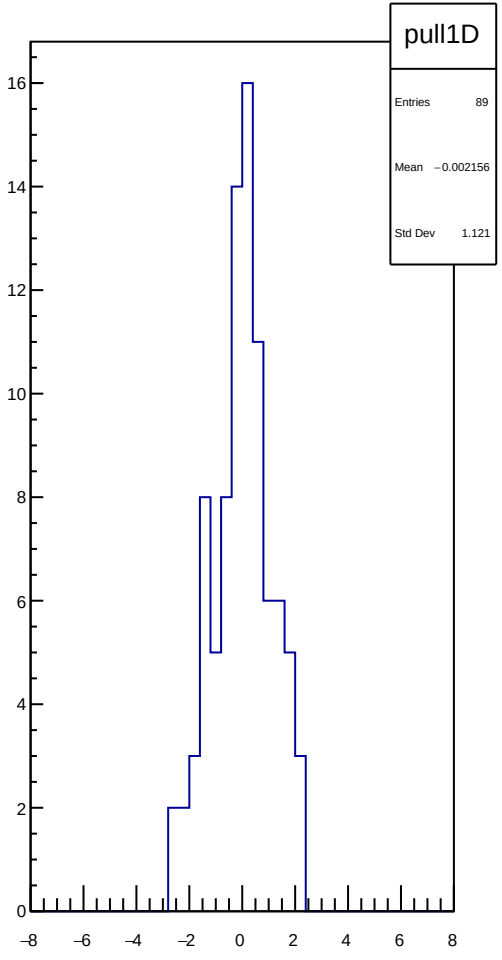

diff_bpm0l06Y_rms vs run
χ² / ndf 416.4 / 88
p0 1197 ± 0.91
1260
1240
1220
1200
1180
1160
1140

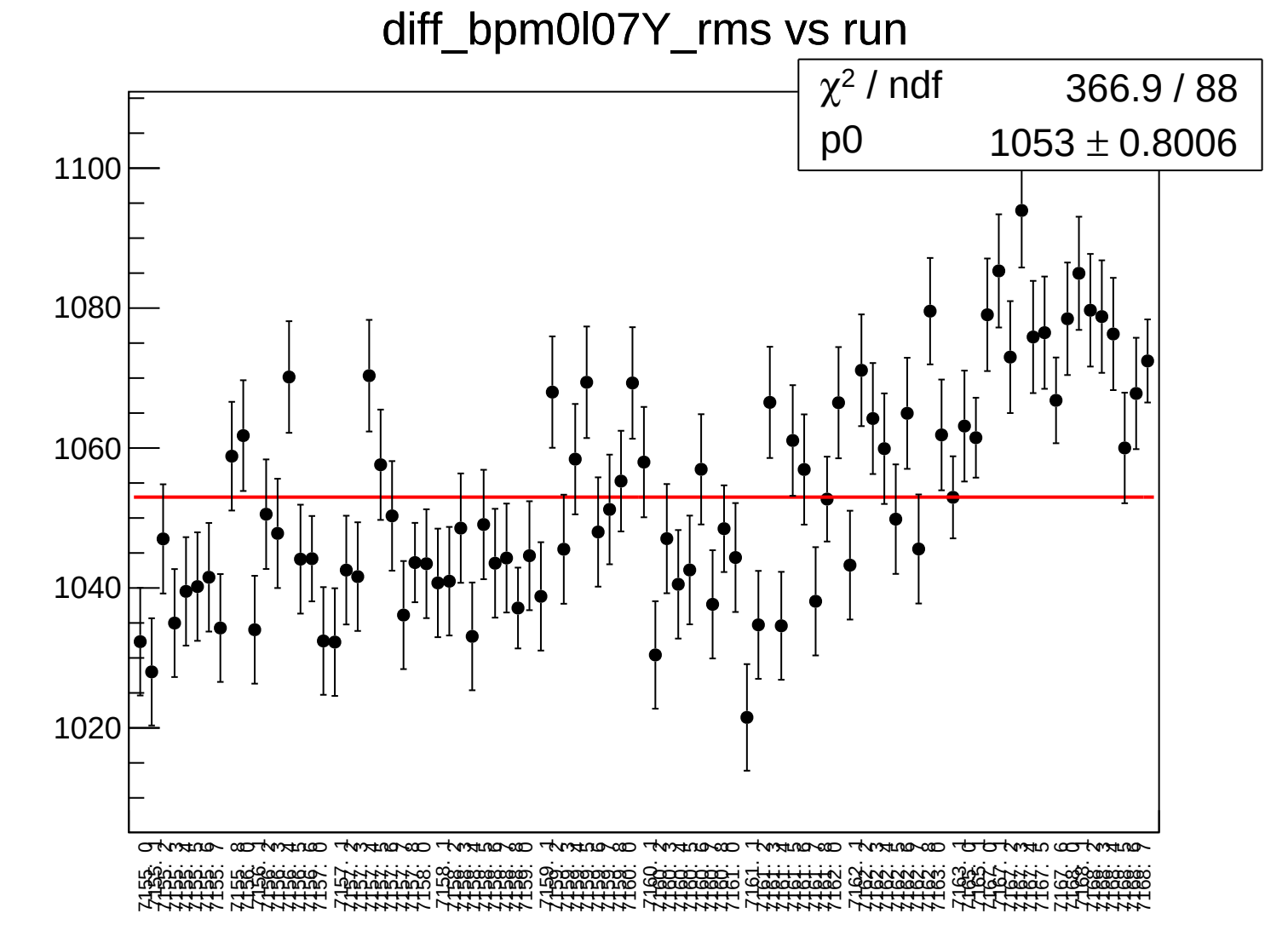

diff_bpm0l07X_mean vs run
χ² / ndf 75.29 / 88
p0 −3.516 ± 10.95
400
200
0
−200
−400
pull
Entries 89
Mean −19.43
Std Dev 0
2
1
0
−1
−2

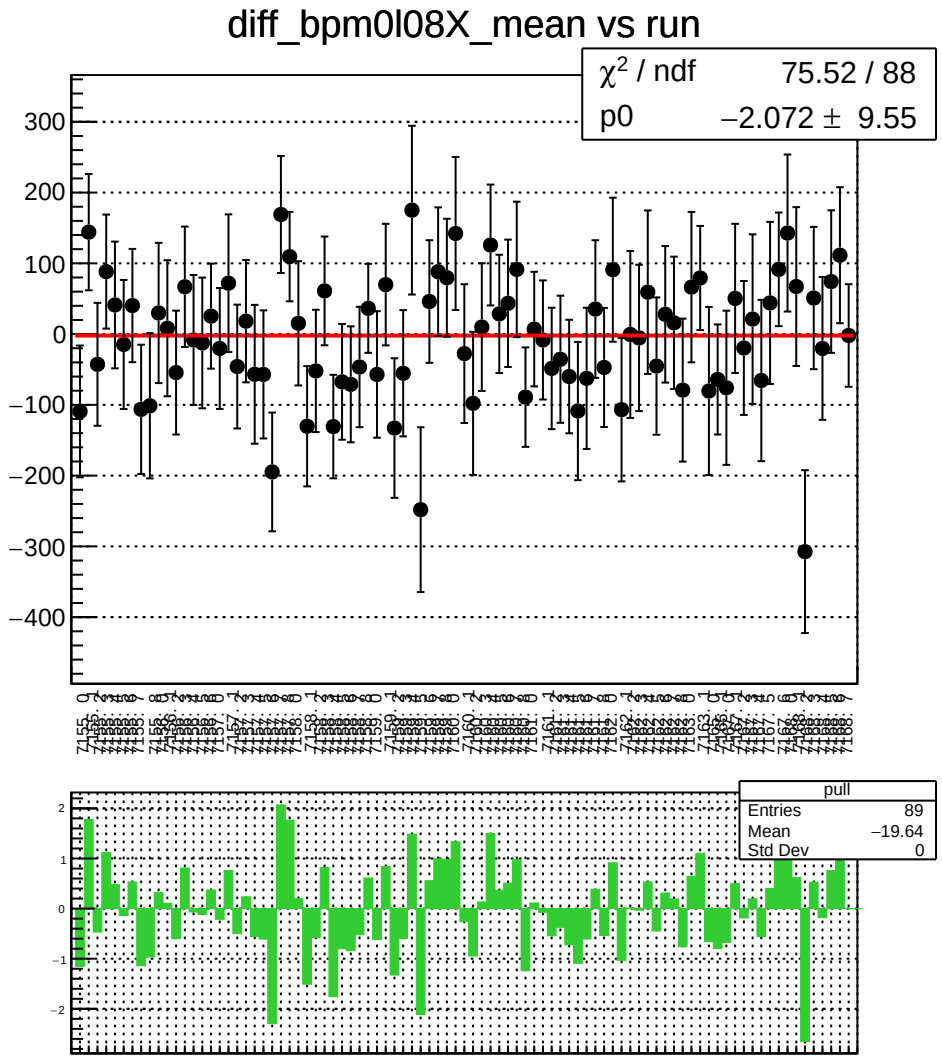

pull1D
Entries 89
Mean −0.01411
Std Dev 0.9197
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

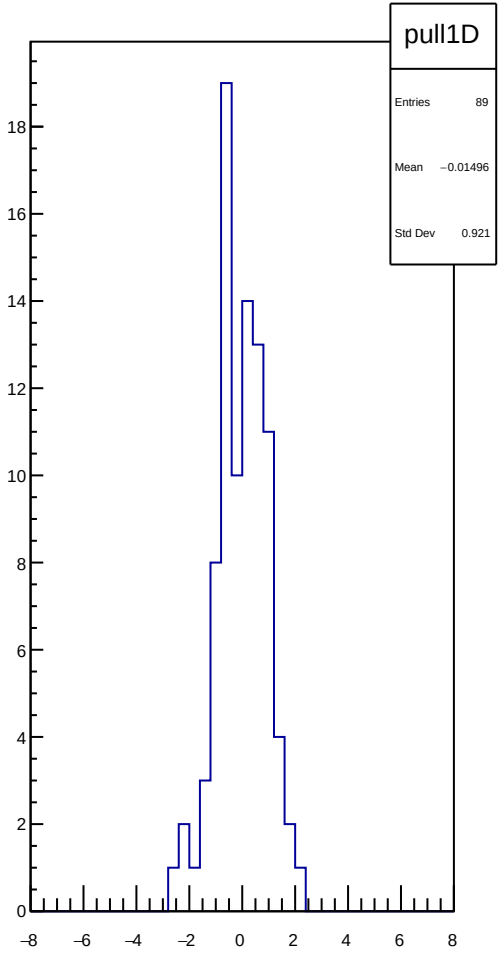

diff_bpm0l07X_rms vs run
χ² / ndf 2.101e+04 / 88
p0 1.013e+04 ± 7.745
13000
12000
11000
10000
9000
8000

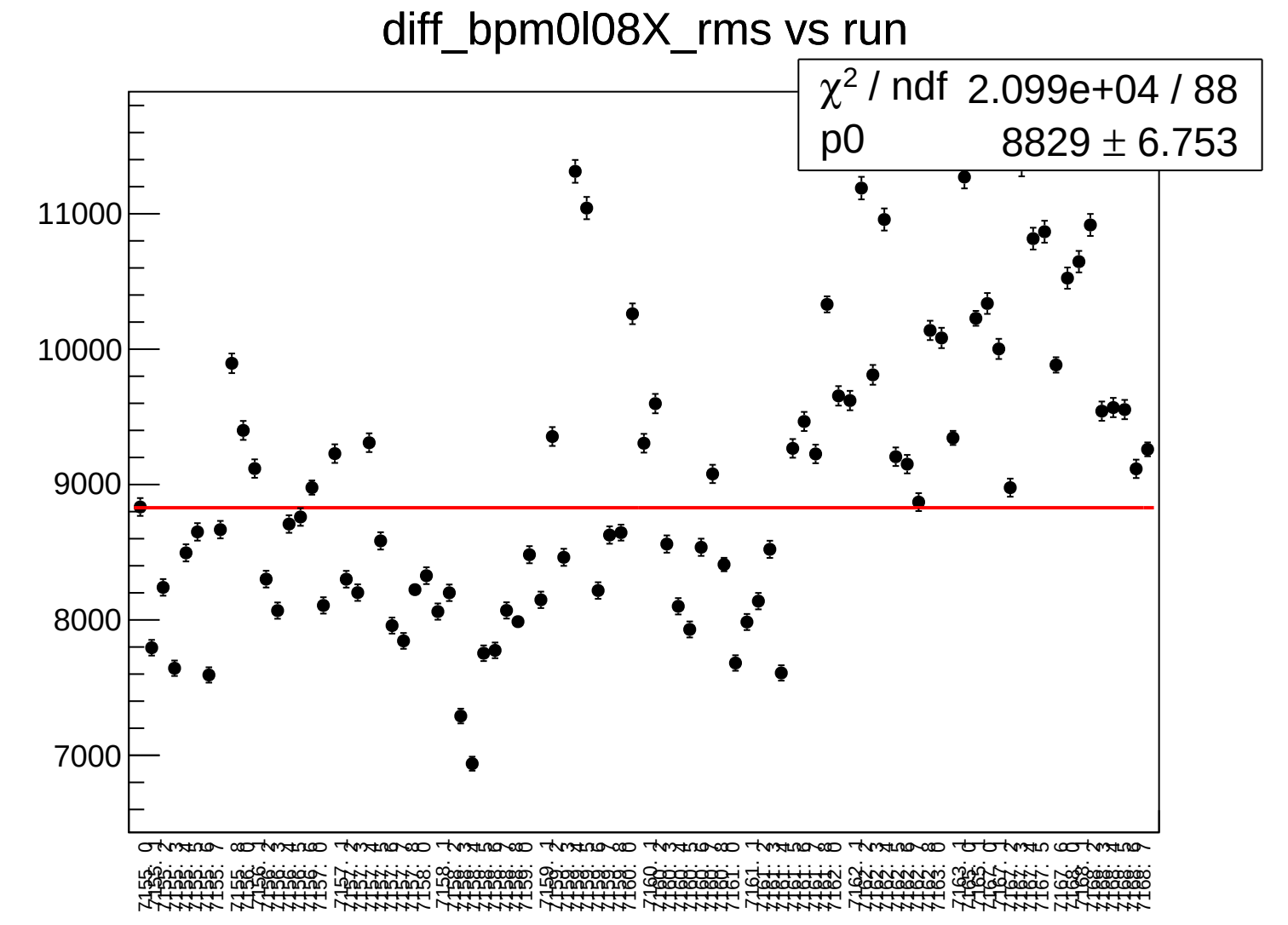

diff_bpm0l07Y_mean vs run
χ² / ndf 111.8 / 88
p0 −2.246 ± 1.132
pull
Entries 89
Mean 329.6
Std Dev 0

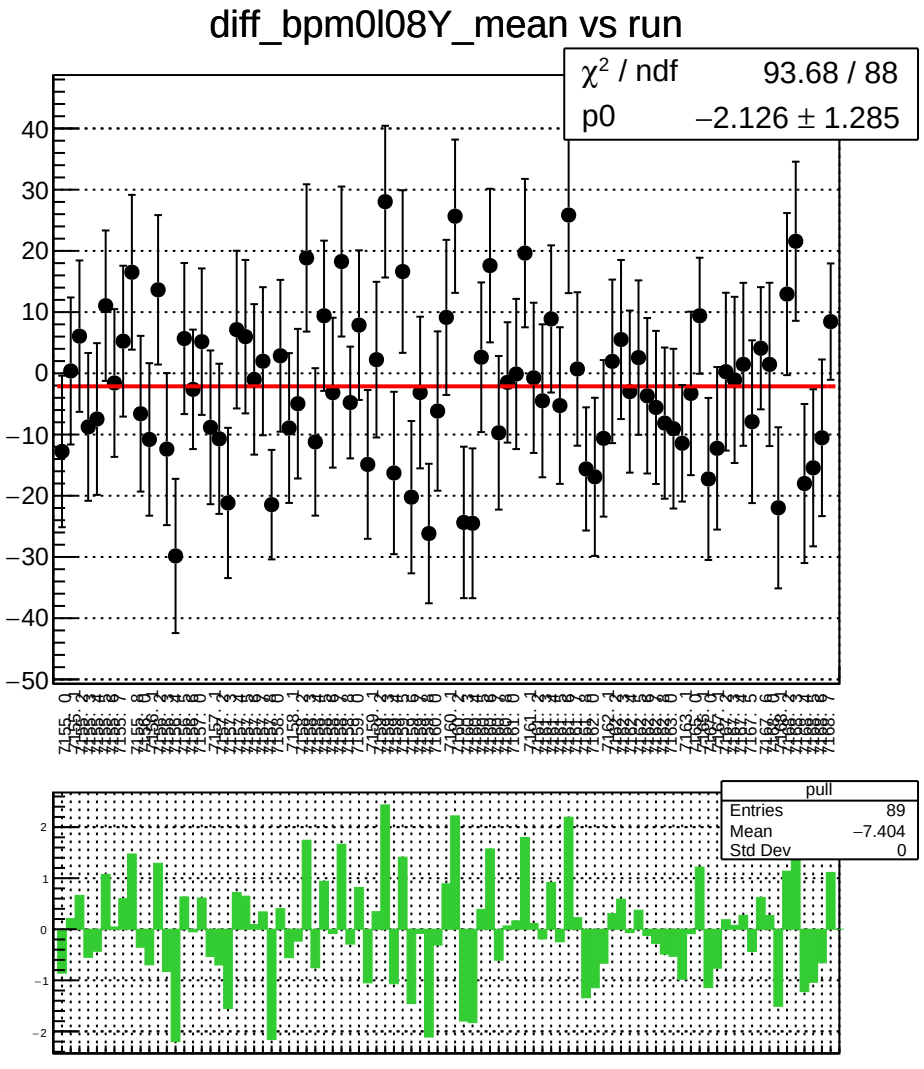

pull1D
Entries 89
Mean −0.002156
Std Dev 1.121

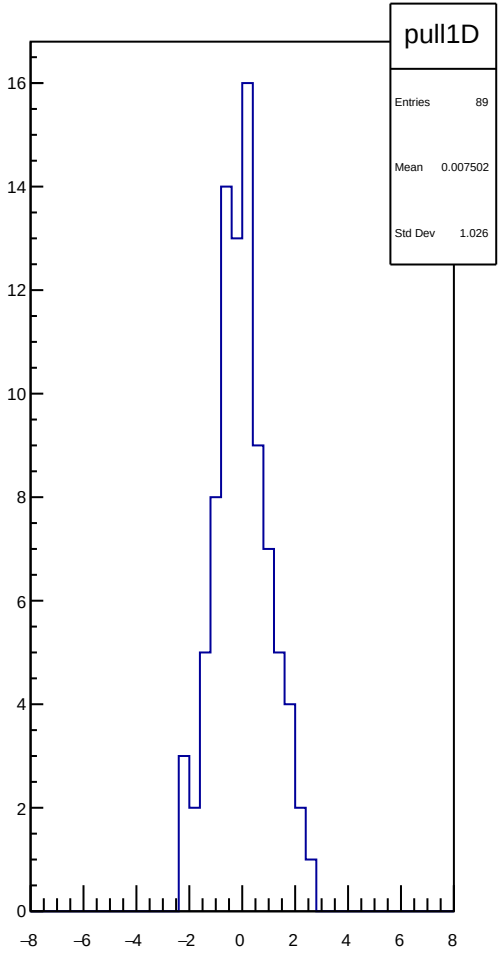

diff_bpm0l07Y_rms vs run
χ² / ndf 366.9 / 88
p0 1053 ± 0.8006
1100
1080
1060
1040
1020

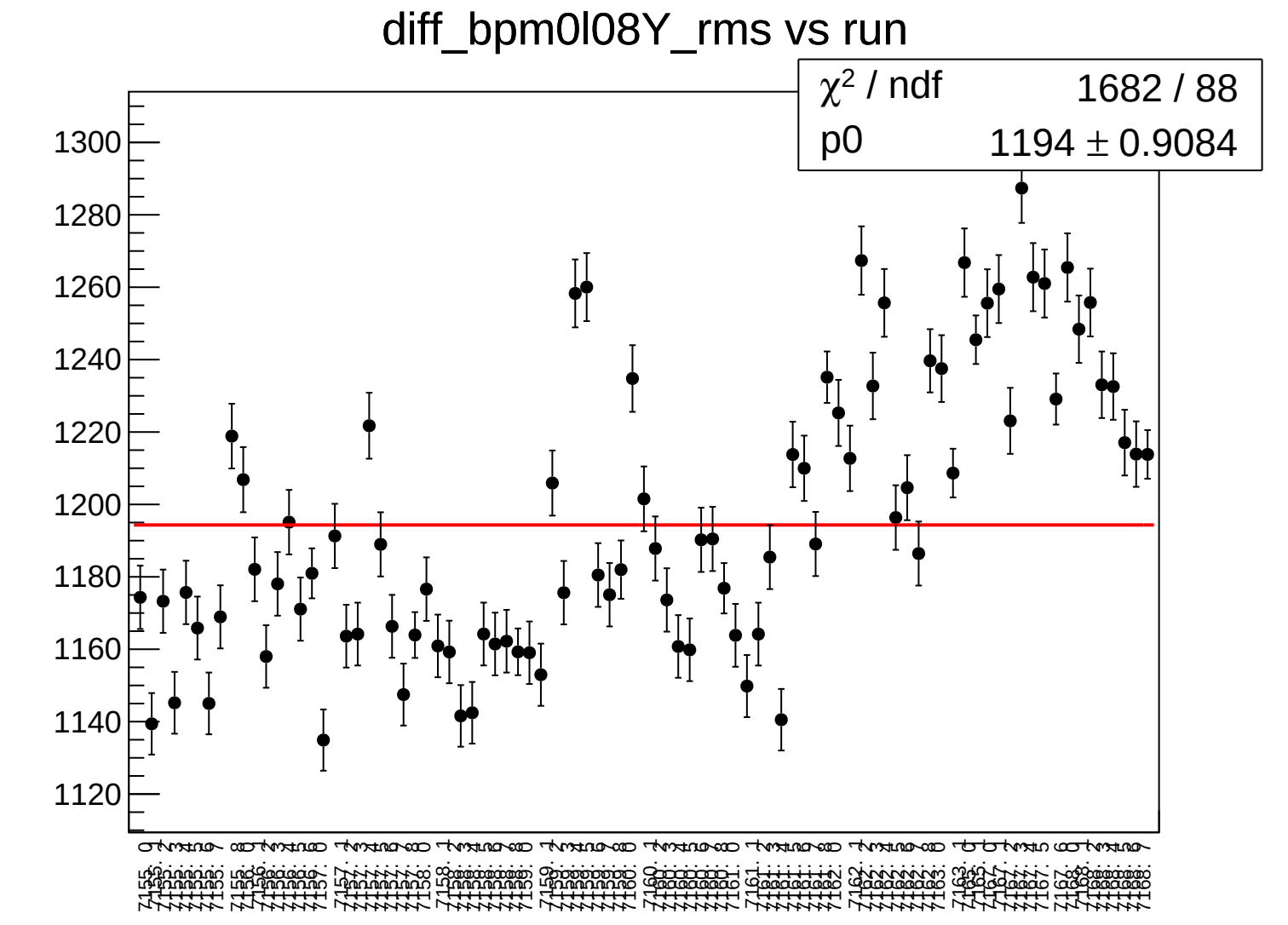

diff_bpm0l08X_mean vs run
χ² / ndf 75.52 / 88
p0 −2.072 ± 9.55
pull
Entries 89
Mean −19.64
Std Dev 0

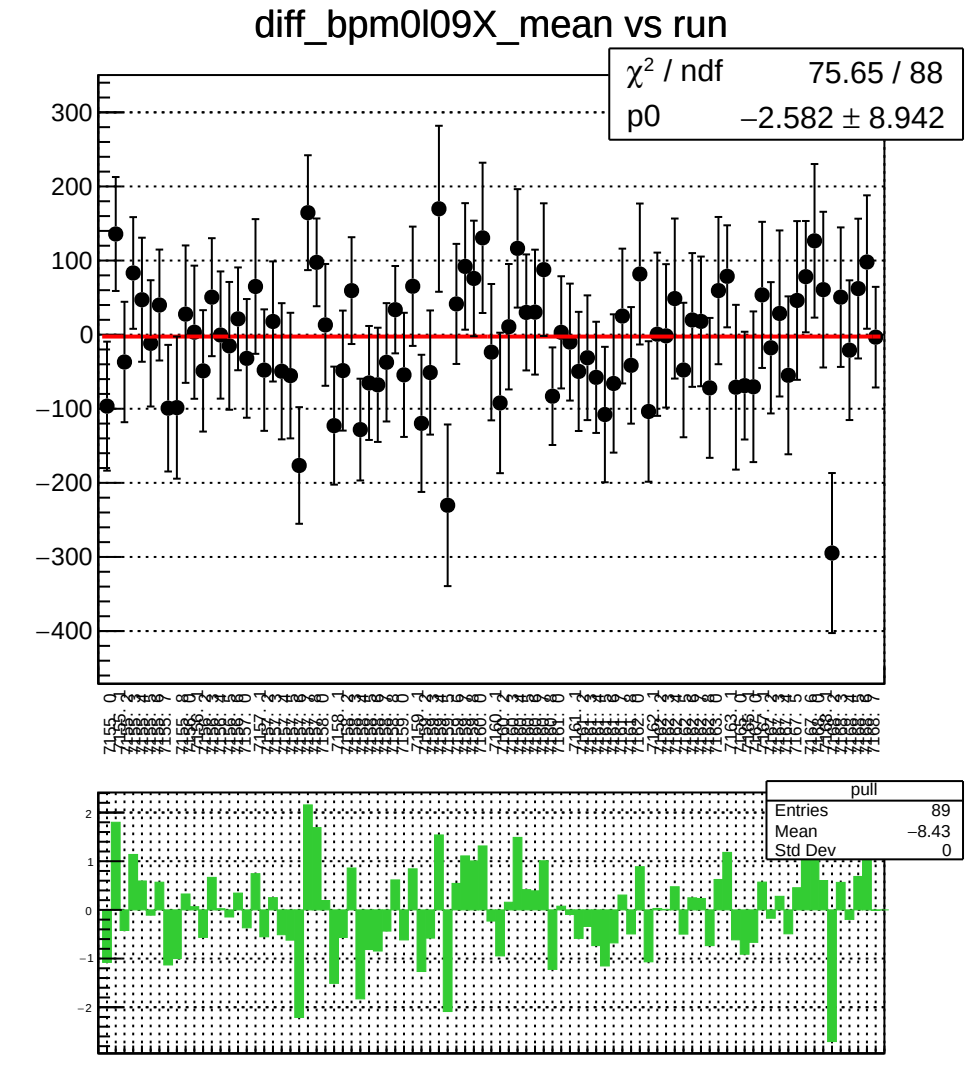

pull1D
Entries 89
Mean −0.01496
Std Dev 0.921

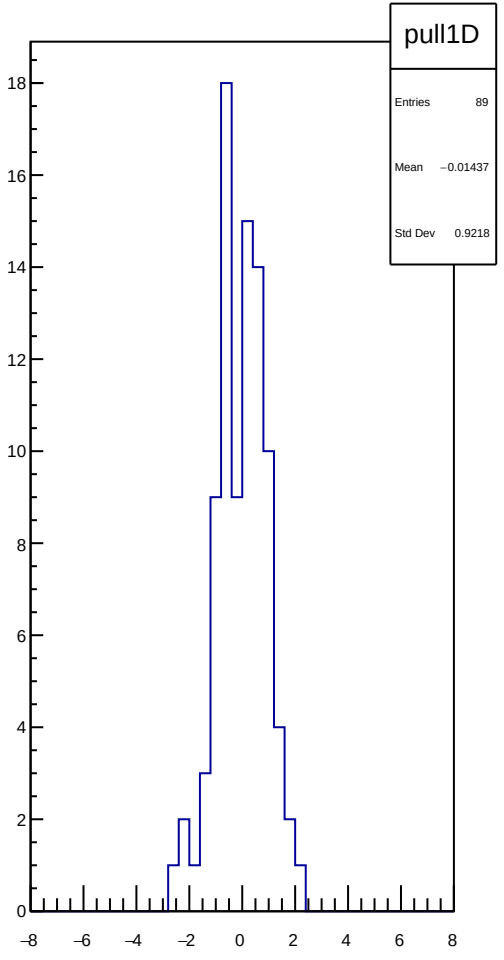

diff_bpm0l08X_rms vs run
χ² / ndf 2.099e+04 / 88
p0 8829 ± 6.753
11000
10000
9000
8000
7000

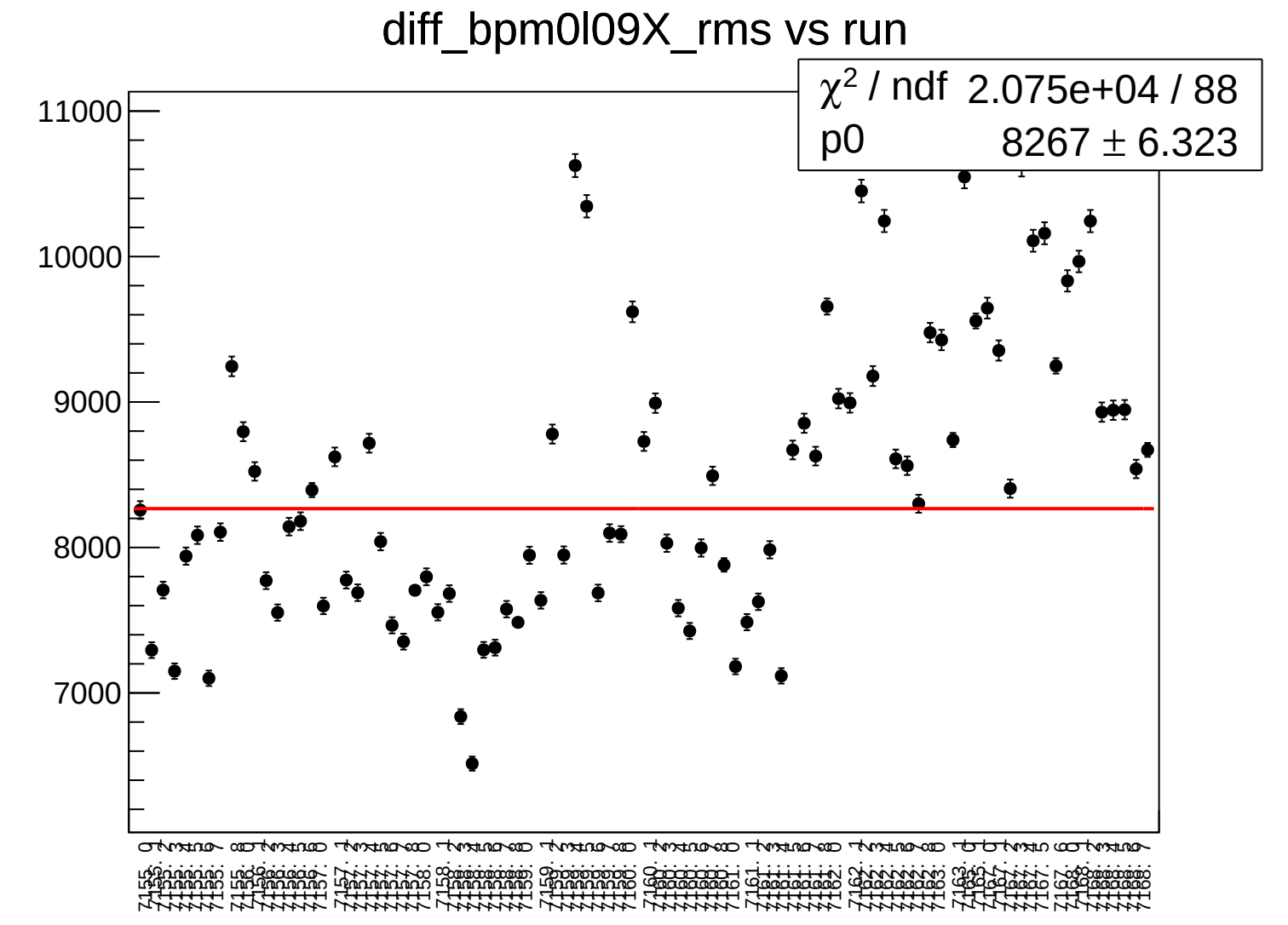

diff_bpm0l08Y_mean vs run
χ² / ndf 93.68 / 88
p0 −2.126 ± 1.285
pull
Entries 89
Mean −7.404
Std Dev 0

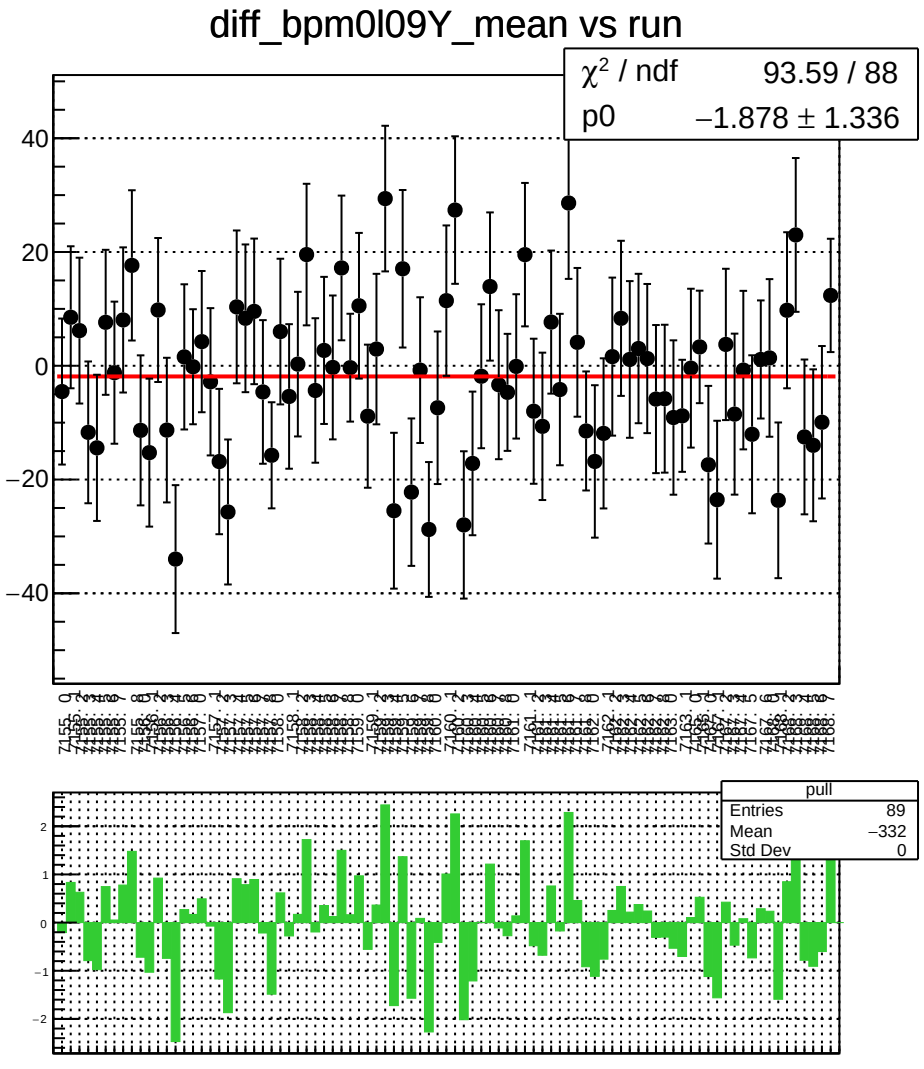

pull1D
Entries 89
Mean 0.007502
Std Dev 1.026

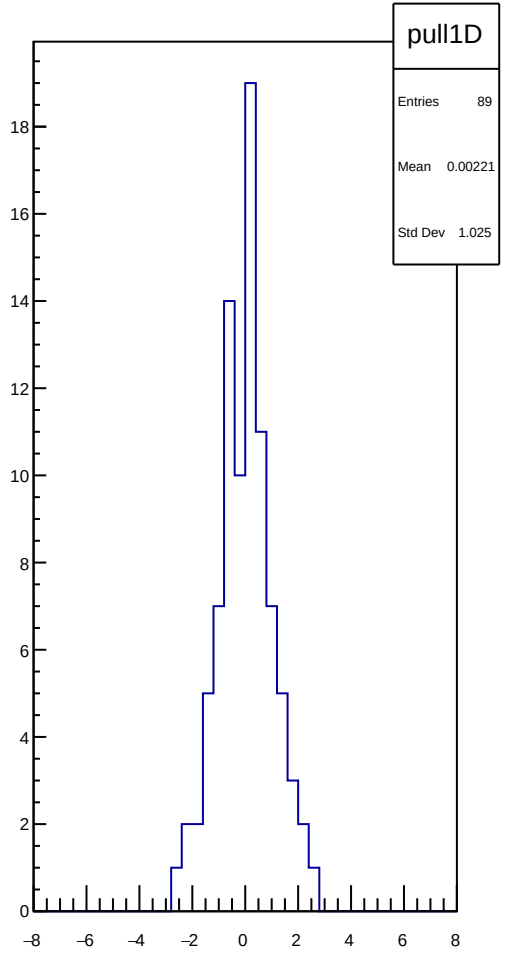

diff_bpm0l08Y_rms vs run
χ² / ndf 1682 / 88
p0 1194 ± 0.9084
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

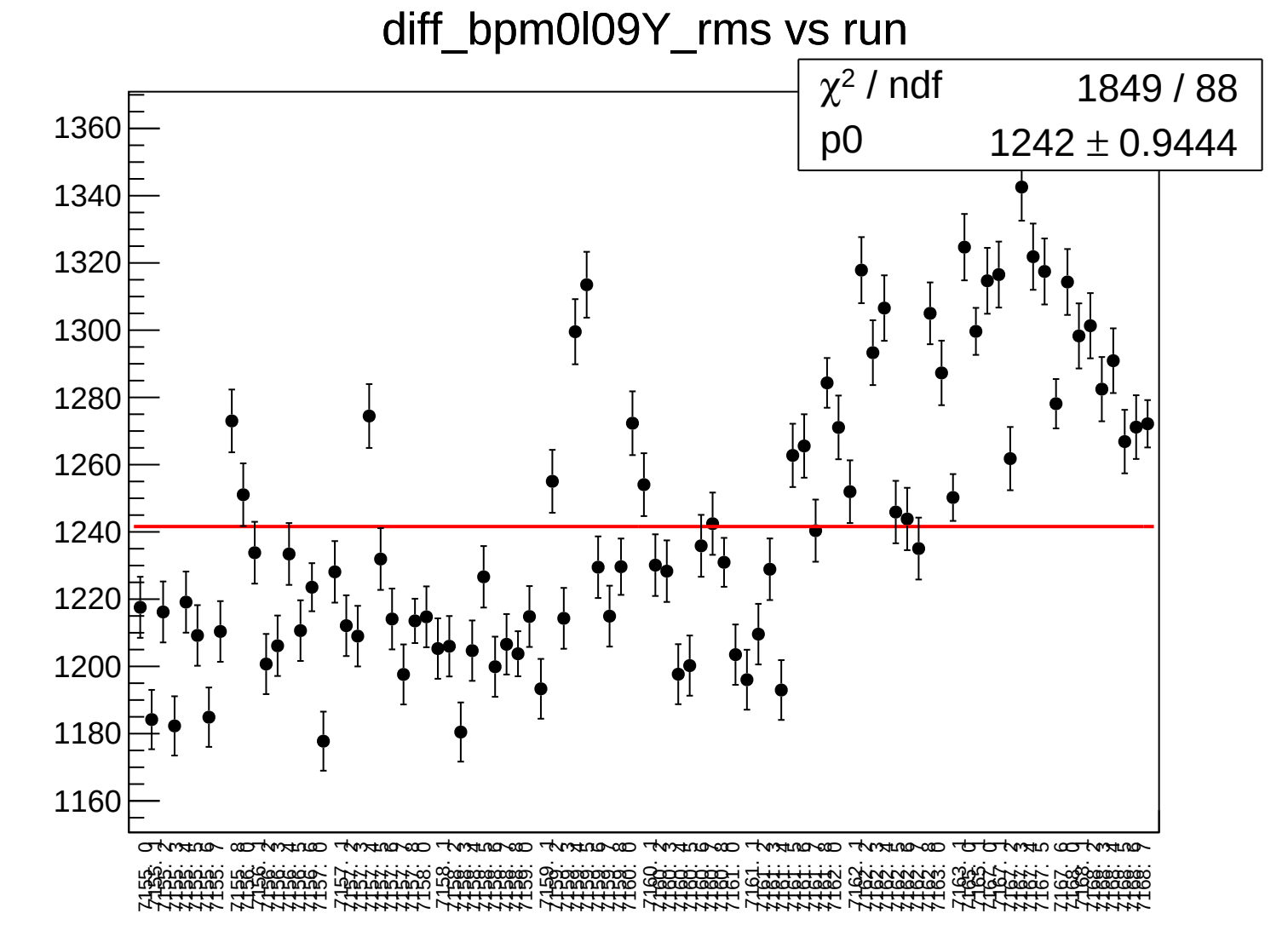

diff_bpm0l09X_mean vs run
χ² / ndf 75.65 / 88
p0 −2.582 ± 8.942
pull
Entries 89
Mean −8.43
Std Dev 0

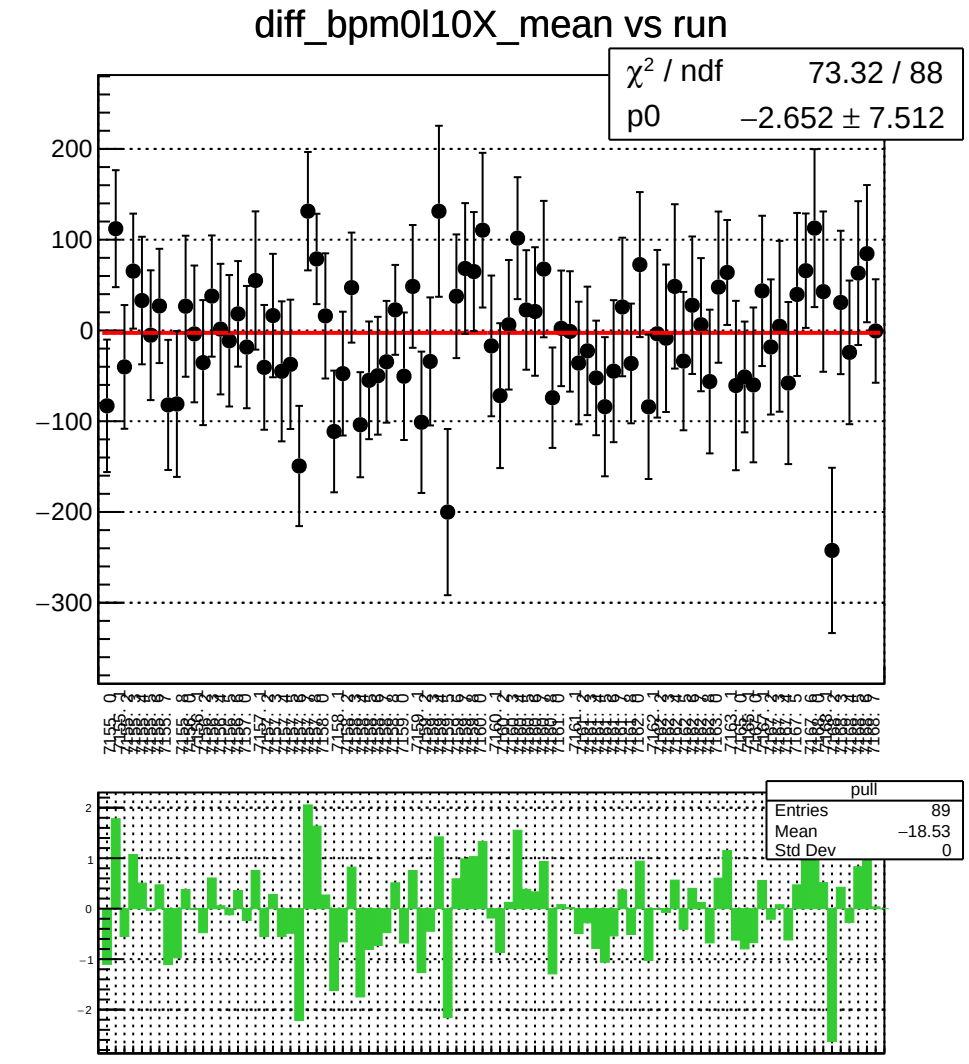

pull1D
Entries 89
Mean −0.01437
Std Dev 0.9218

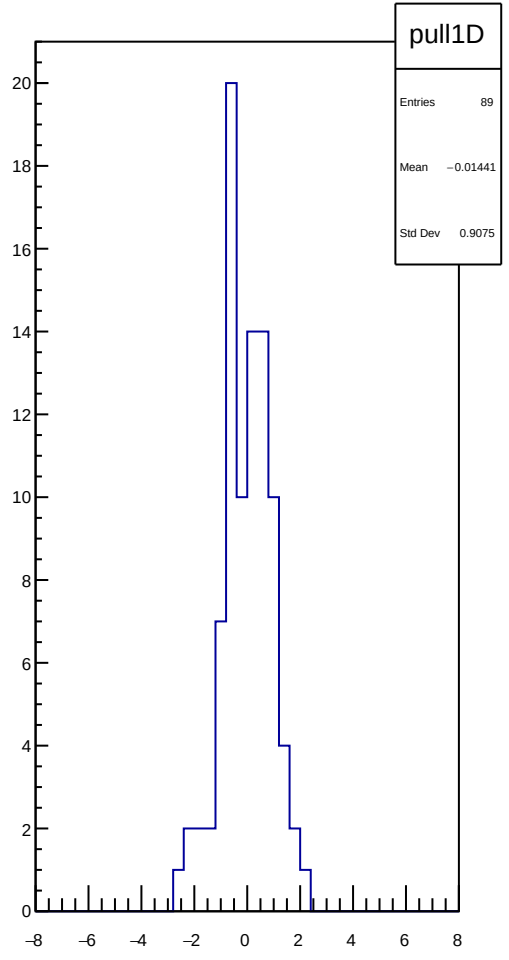

diff_bpm0l09X_rms vs run
χ² / ndf 2.075e+04 / 88
p0 8267 ± 6.323
11000
10000
9000
8000
7000

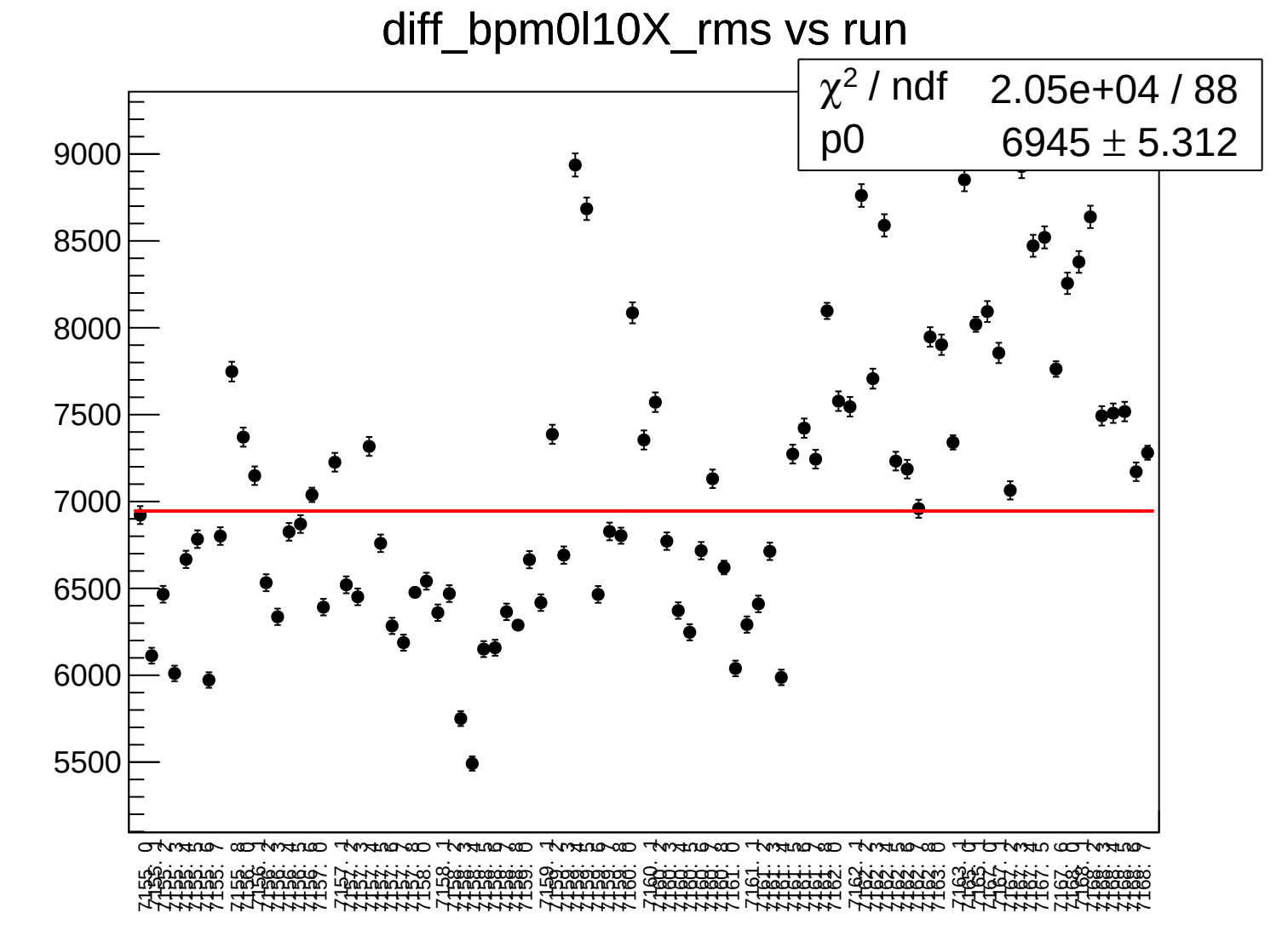

diff_bpm0l09Y_mean vs run
χ² / ndf 93.59 / 88
p0 −1.878 ± 1.336
40
20
0
−20
−40
pull
Entries 89
Mean −332
Std Dev 0
2
1
0
−1
−2

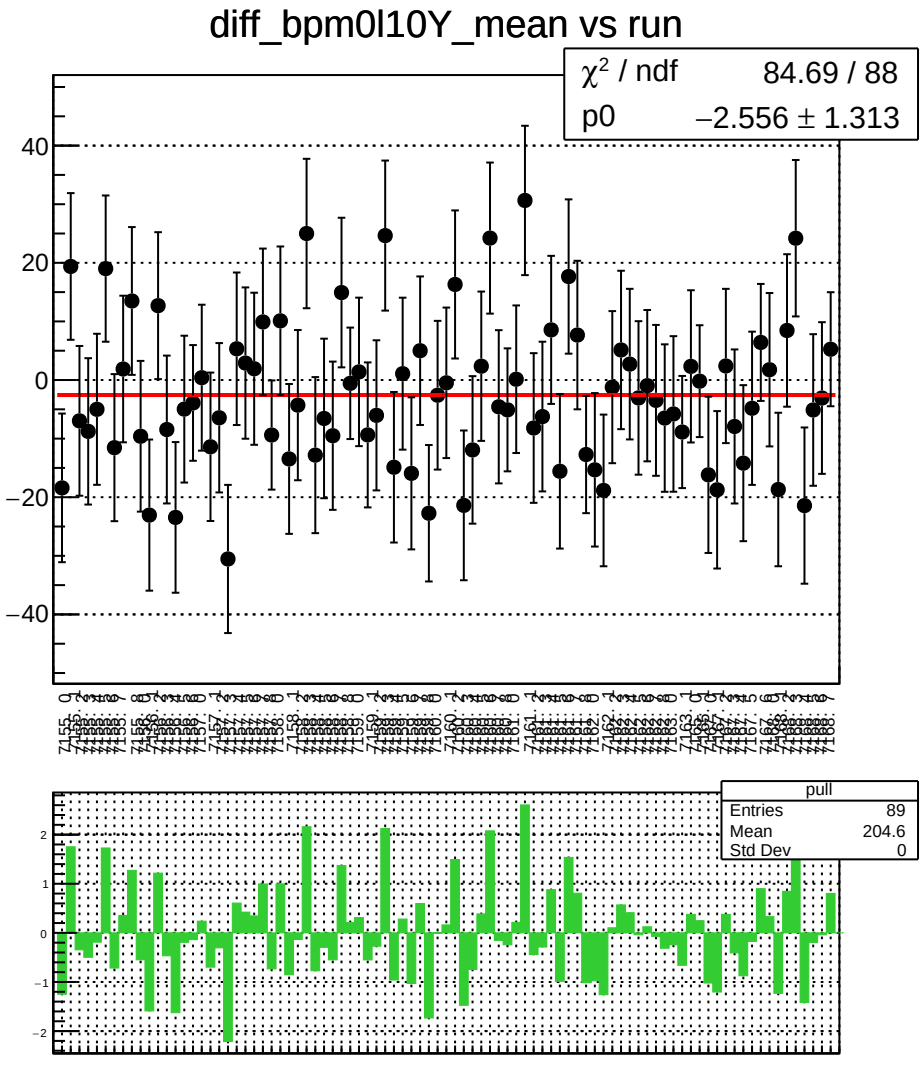

pull1D
Entries 89
Mean 0.00221
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

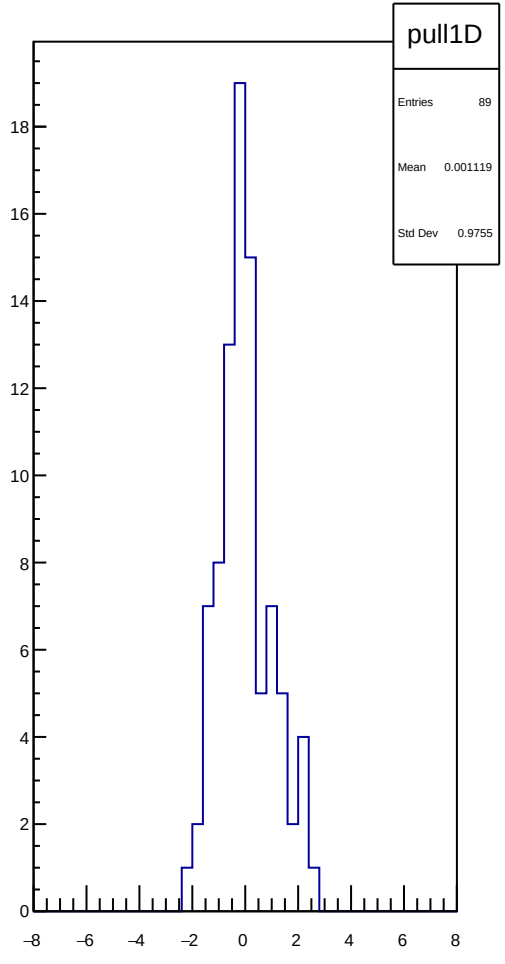

diff_bpm0l09Y_rms vs run
χ² / ndf 1849 / 88
p0 1242 ± 0.9444
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180
1160

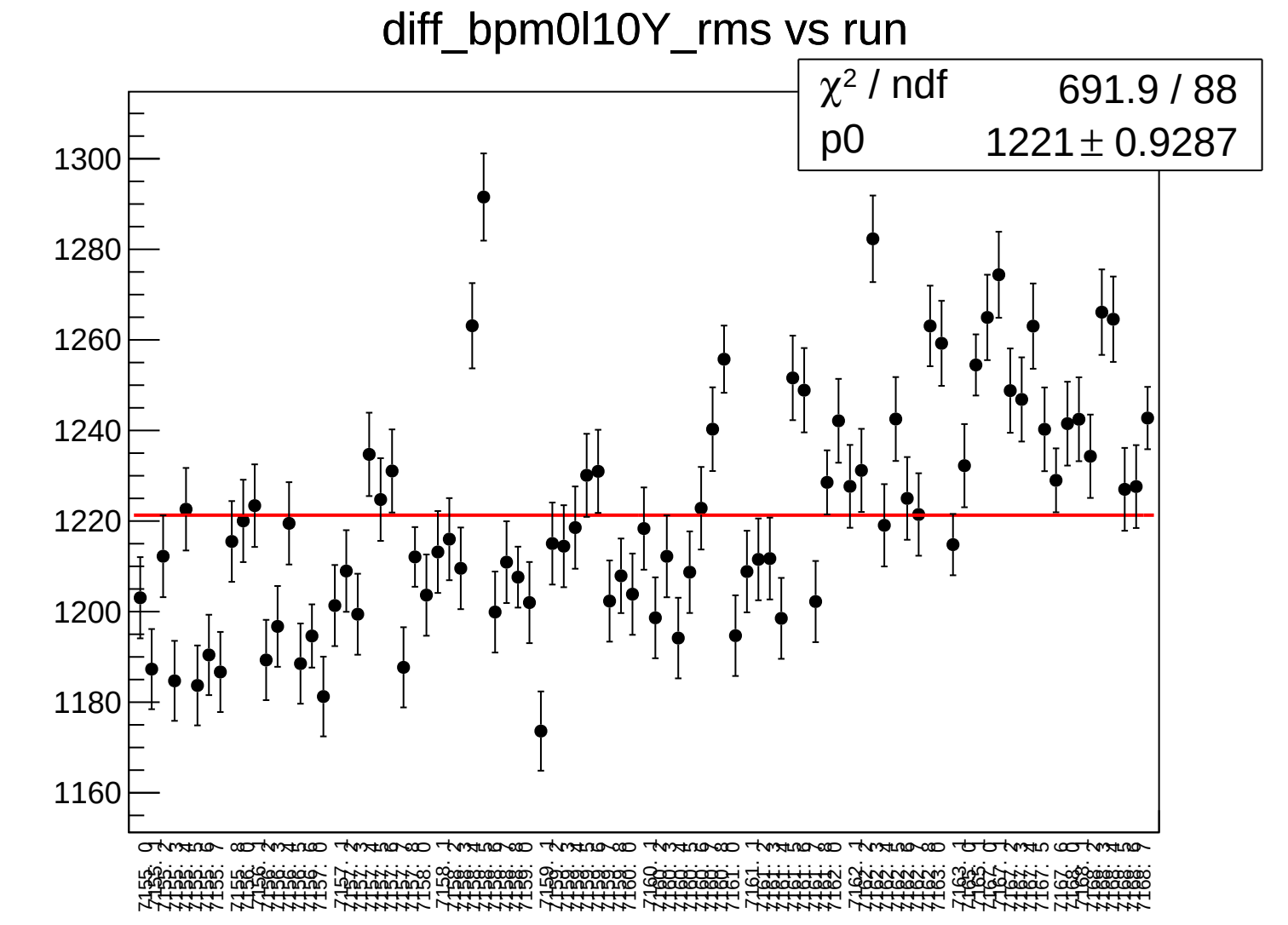

diff_bpm0l10X_mean vs run
χ² / ndf 73.32 / 88
p0 −2.652 ± 7.512
200
100
0
−100
−200
−300
pull
Entries 89
Mean −18.53
Std Dev 0
2
1
0
−1
−2

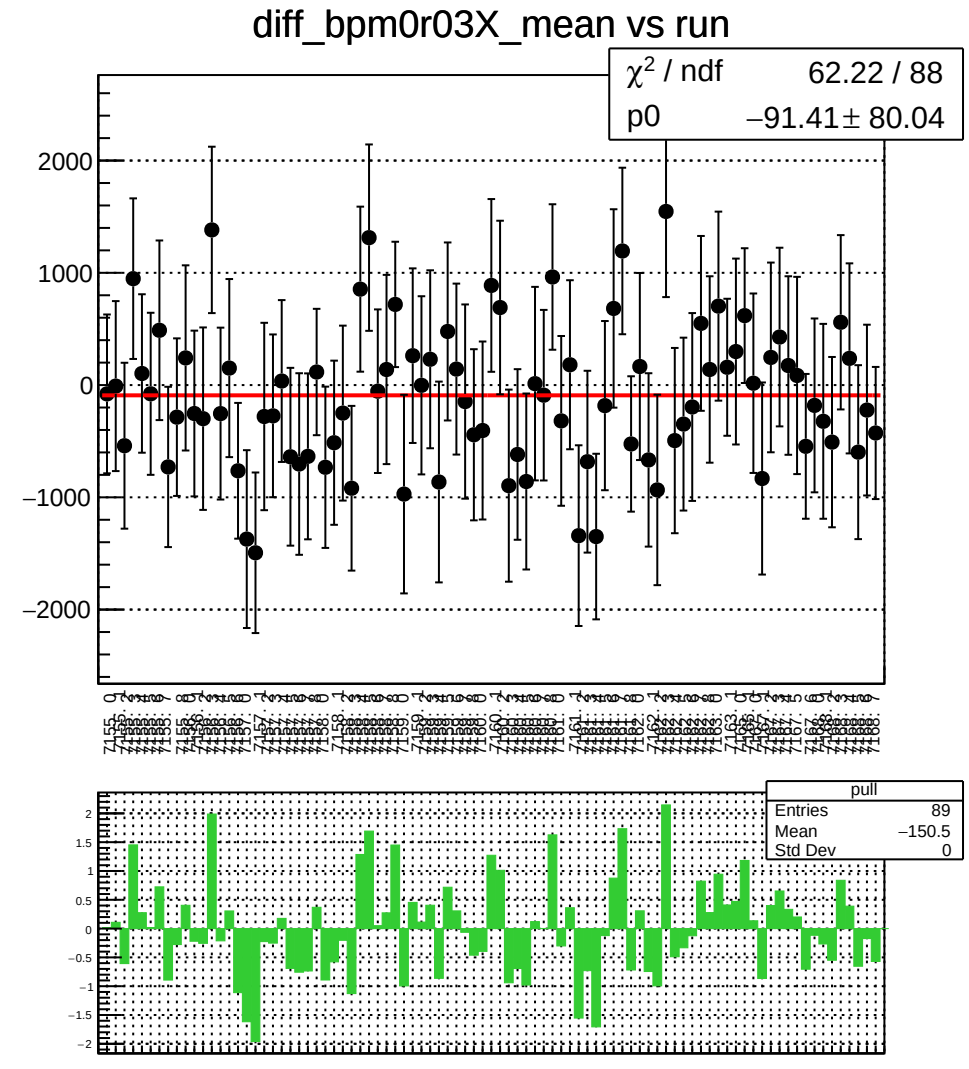

pull1D
Entries 89
Mean −0.01441
Std Dev 0.9075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

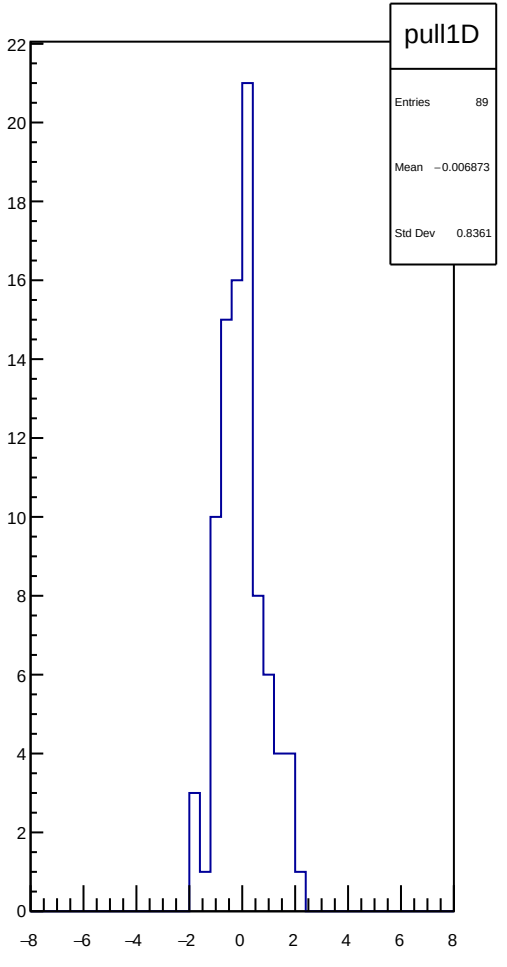

diff_bpm0l10X_rms vs run
χ^2 / ndf 2.05e+04 / 88
p0 6945 ± 5.312
9000
8500
8000
7500
7000
6500
6000
5500

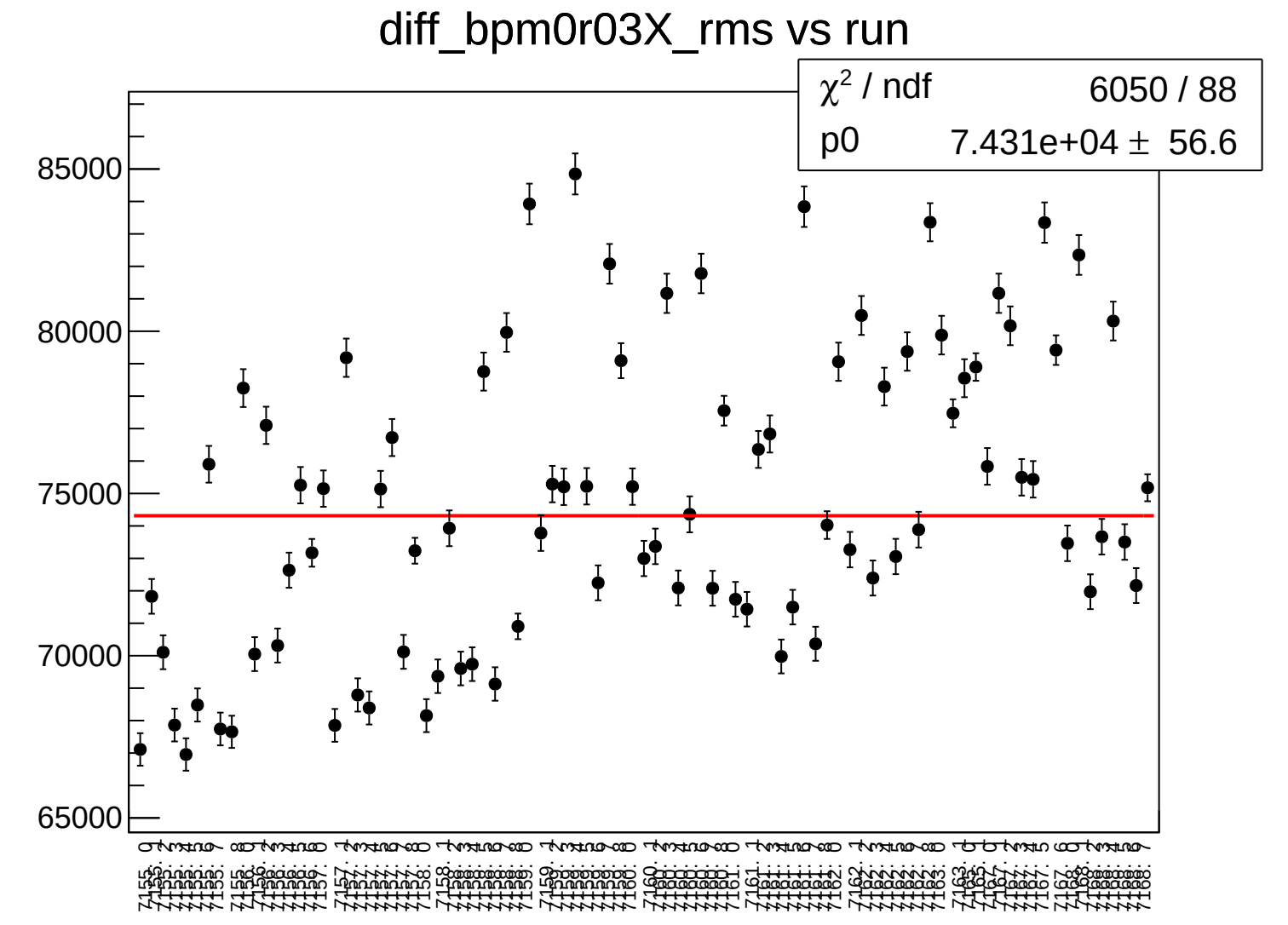

diff_bpm0l10Y_mean vs run
χ² / ndf 84.69 / 88
p0 −2.556 ± 1.313
40
20
0
−20
−40
pull
Entries 89
Mean 204.6
Std Dev 0
2
1
0
−1
−2

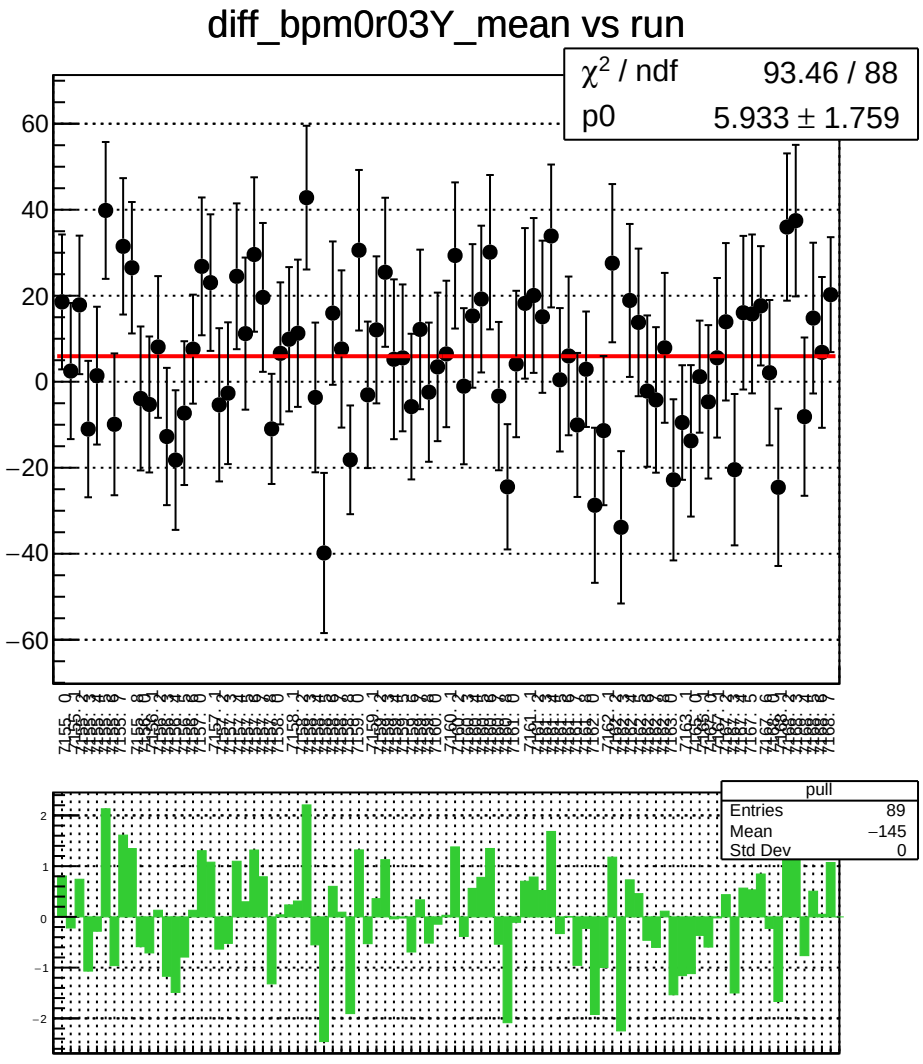

pull1D
Entries 89
Mean 0.001119
Std Dev 0.9755
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

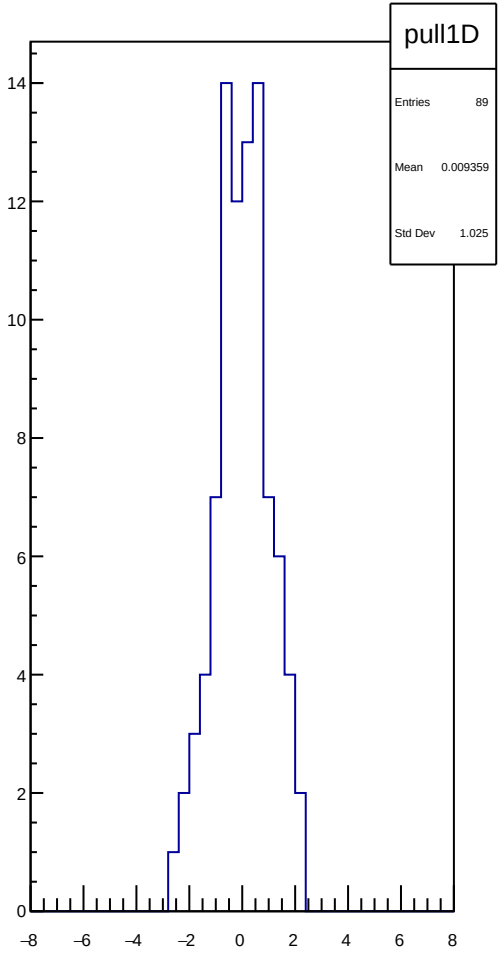

diff_bpm0l10Y_rms vs run
χ² / ndf 691.9 / 88
p0 1221 ± 0.9287
1300
1280
1260
1240
1220
1200
1180
1160

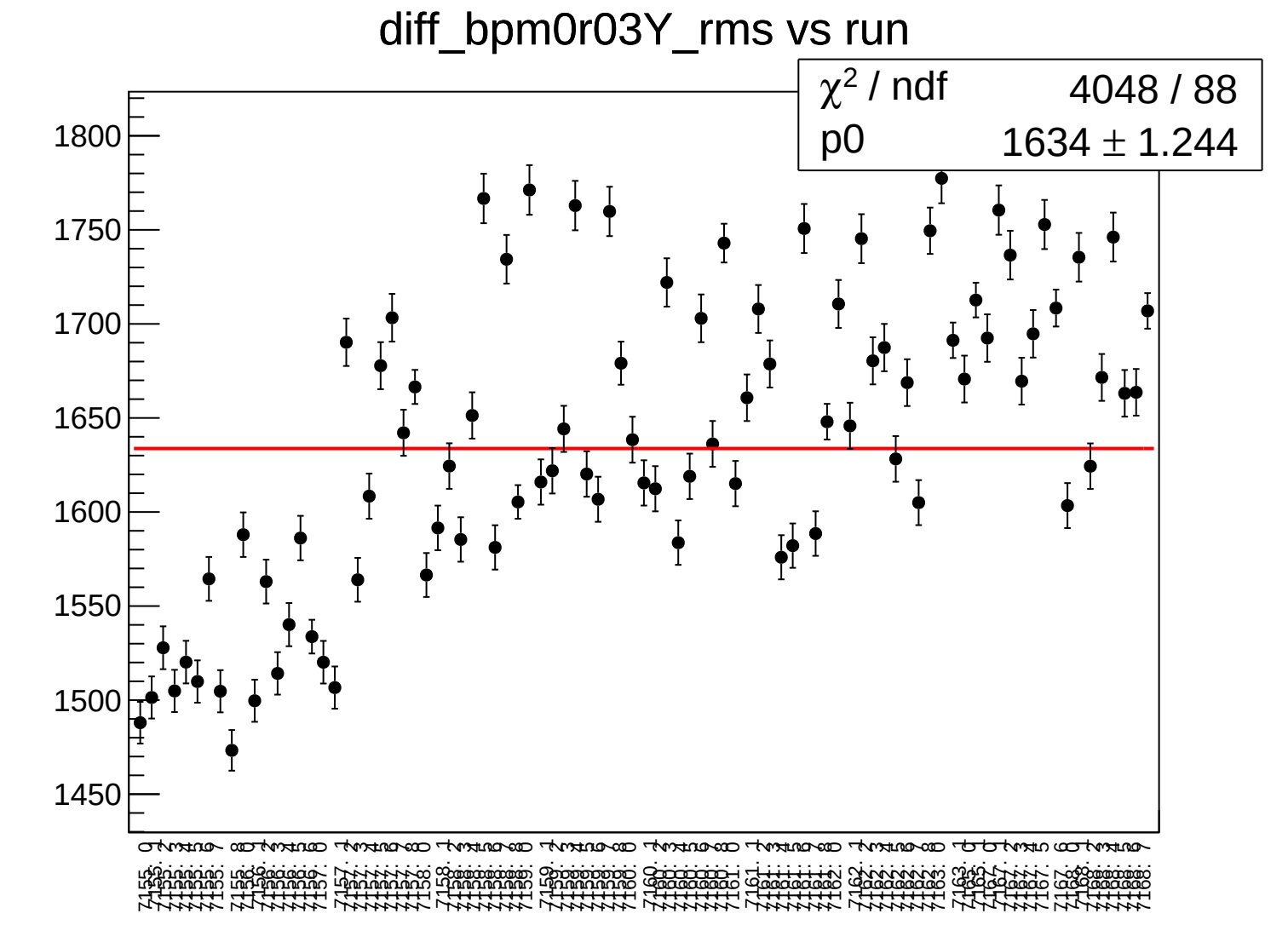

diff_bpm0r03X_mean vs run
χ^2 / ndf 62.22 / 88
p0 −91.41 ± 80.04
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −150.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

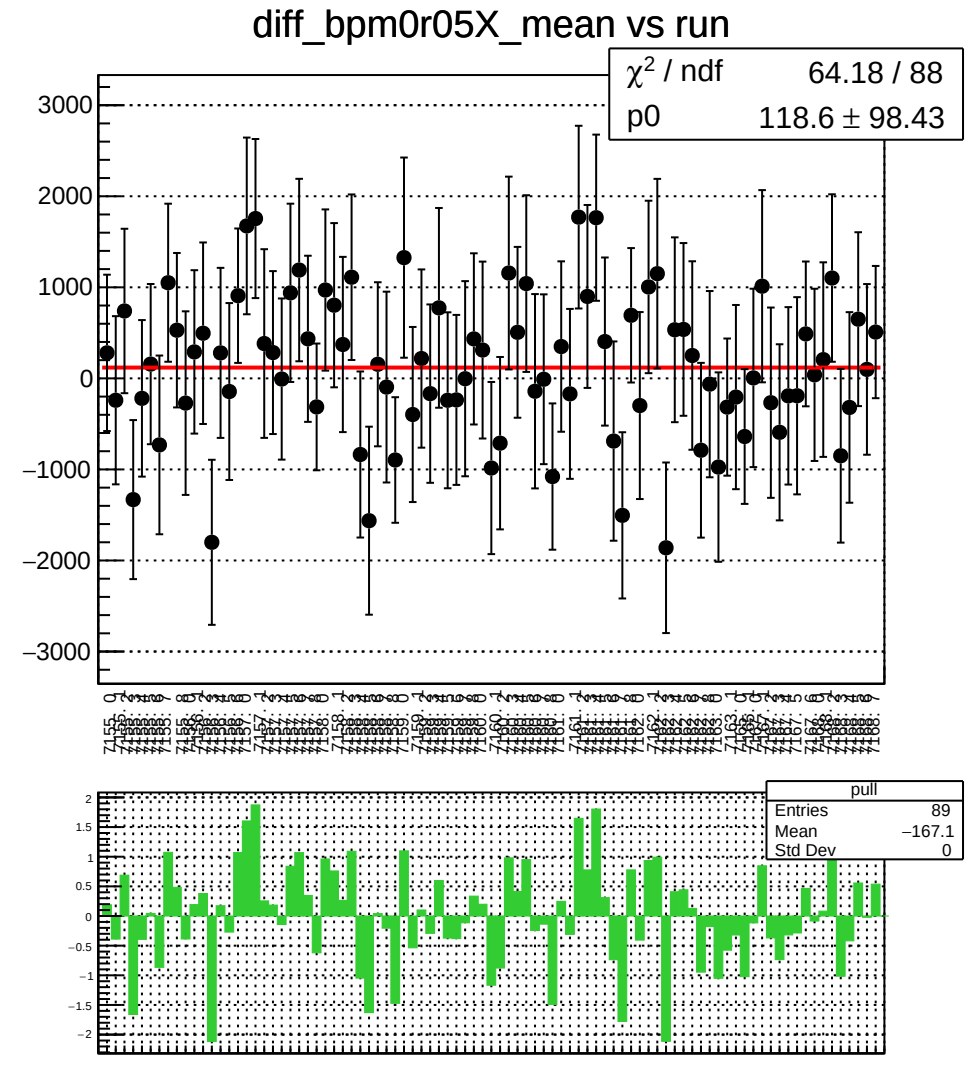

pull1D
Entries 89
Mean −0.006873
Std Dev 0.8361
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

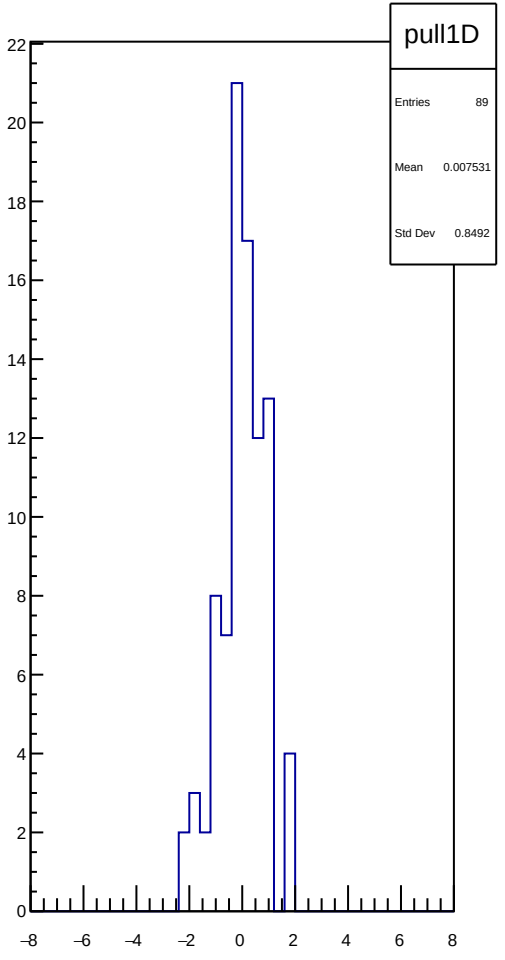

diff_bpm0r03X_rms vs run
χ² / ndf 6050 / 88
p0 7.431e+04 ± 56.6
85000
80000
75000
70000
65000

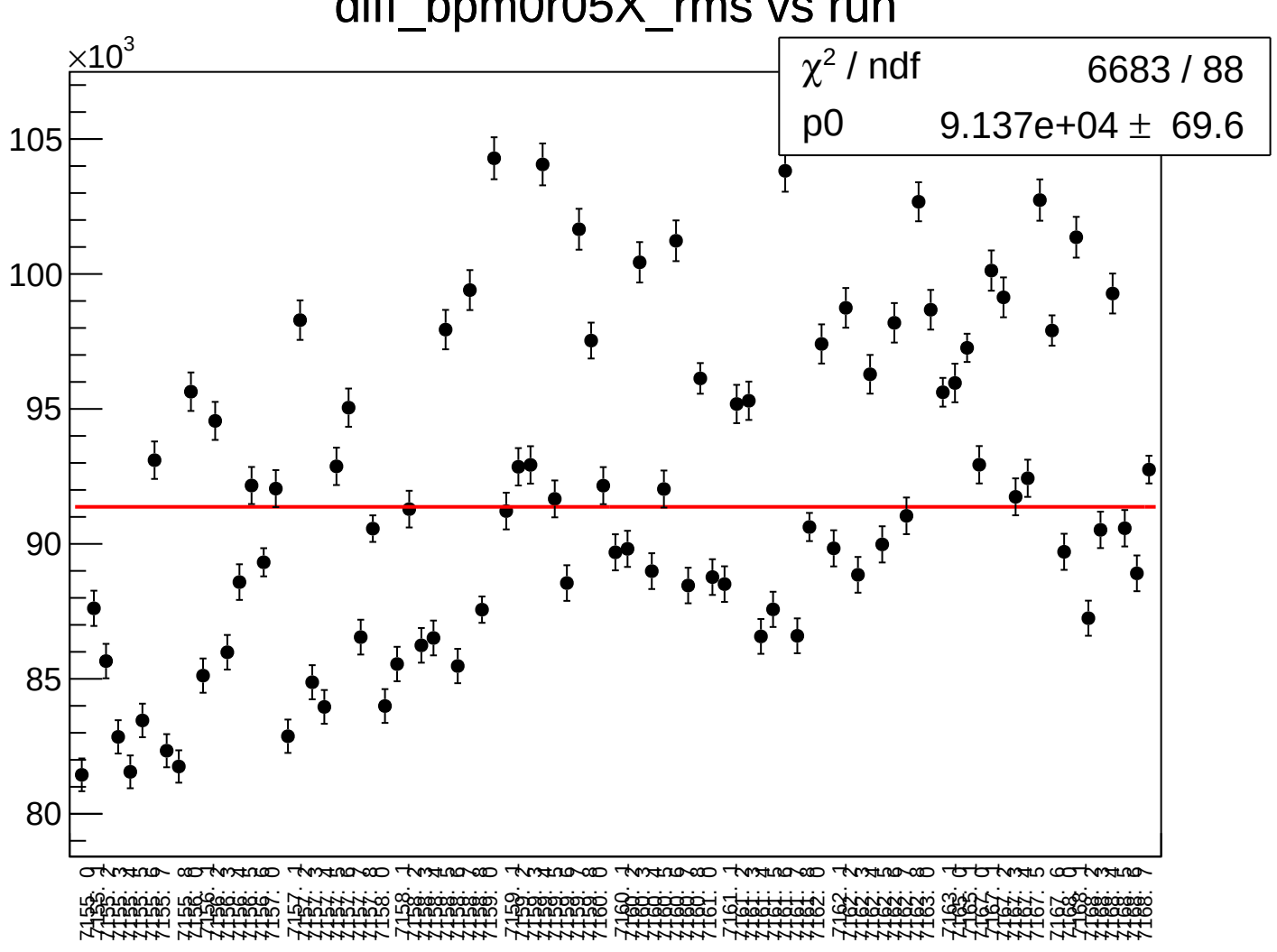

diff_bpm0r03Y_mean vs run
χ² / ndf 93.46 / 88
p0 5.933 ± 1.759
pull
Entries 89
Mean −145
Std Dev 0

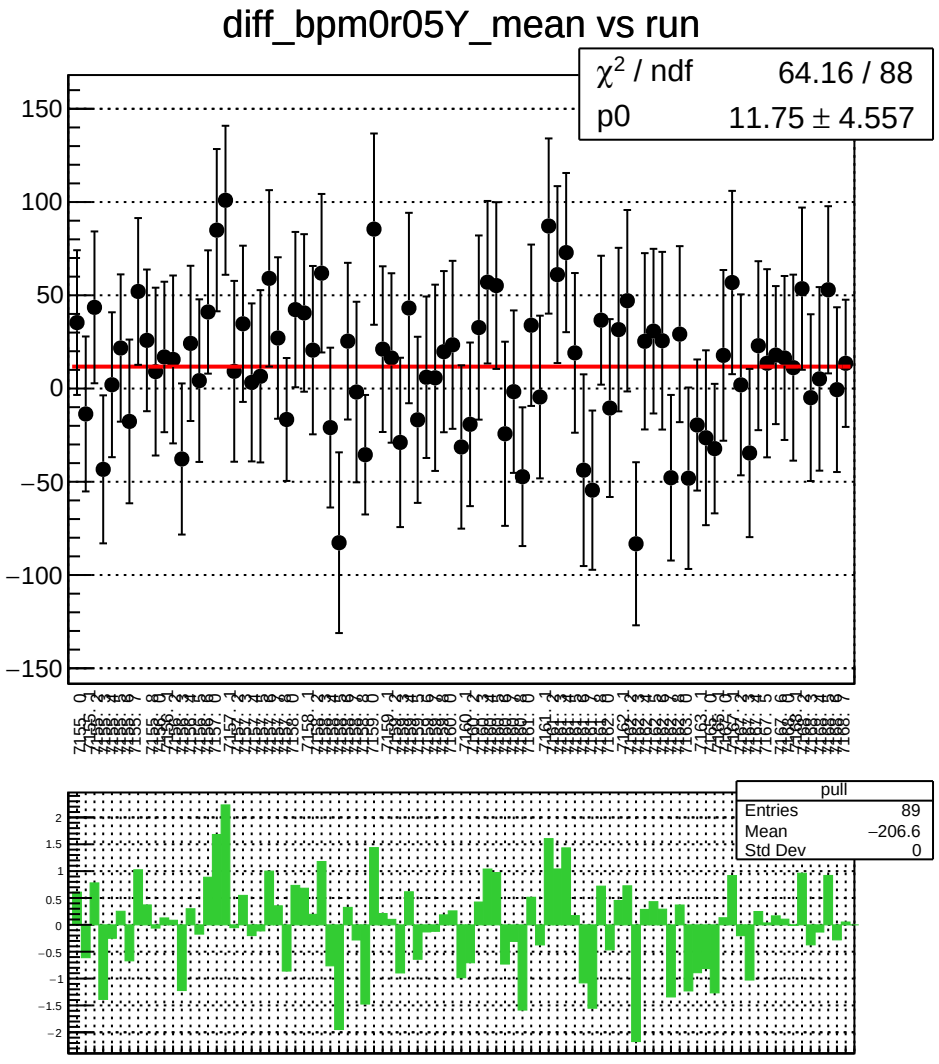

pull1D
Entries 89
Mean 0.009359
Std Dev 1.025

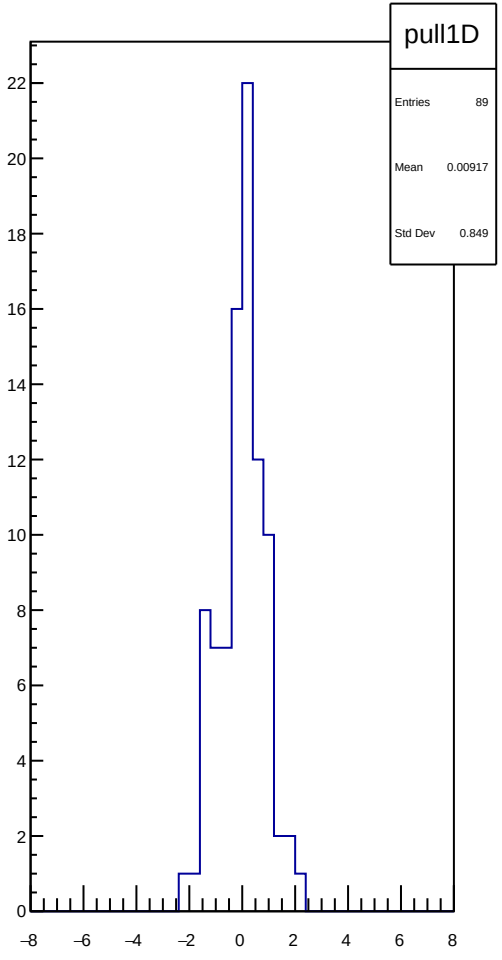

diff_bpm0r03Y_rms vs run
χ² / ndf 4048 / 88
p0 1634 ± 1.244
1800
1750
1700
1650
1600
1550
1500
1450

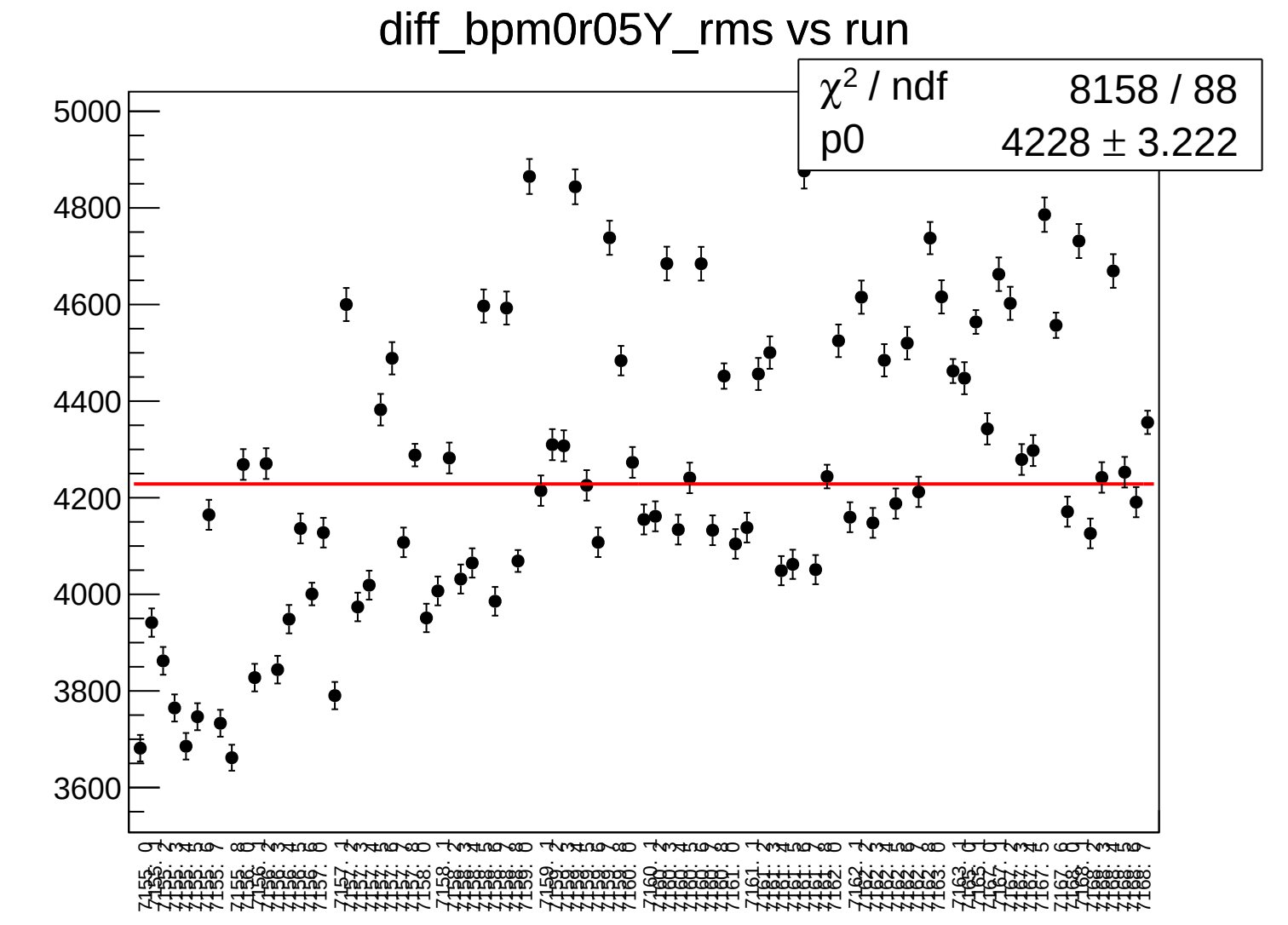

diff_bpm0r05X_mean vs run
χ^2 / ndf 64.18 / 88
p0 118.6 ± 98.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −167.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

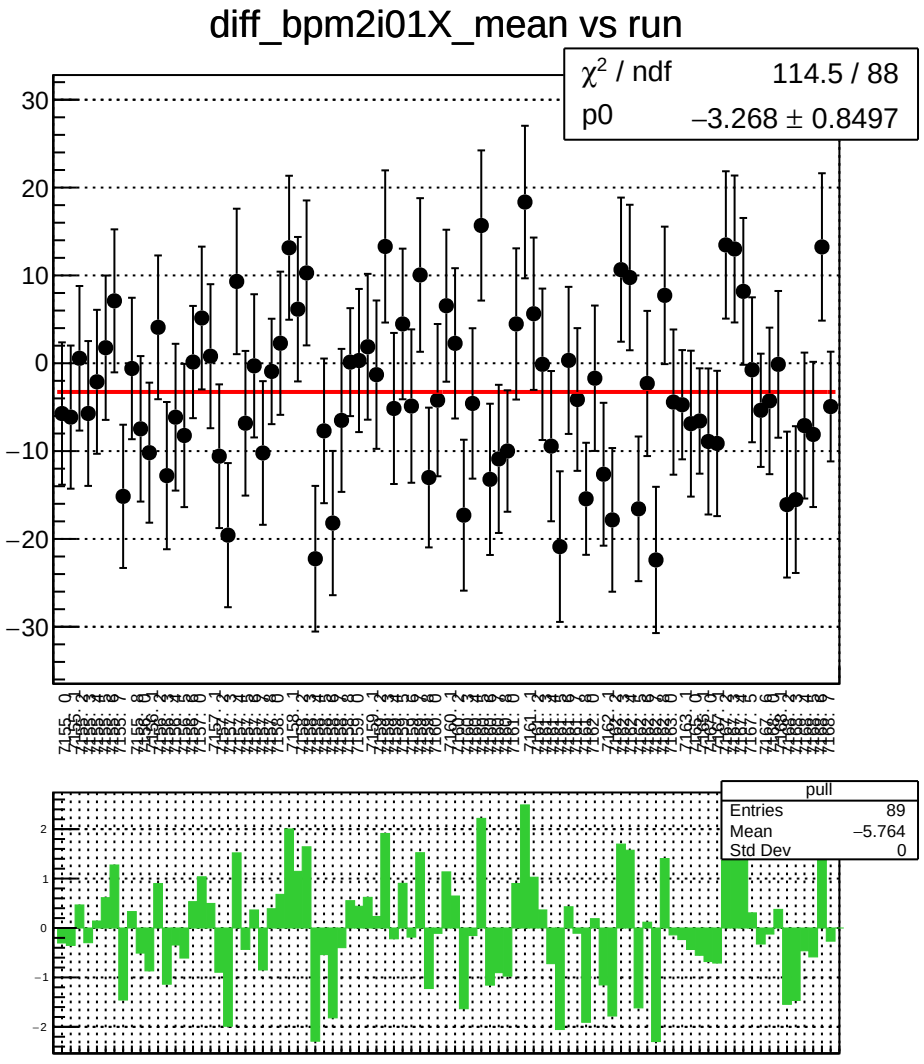

pull1D
Entries 89
Mean 0.007531
Std Dev 0.8492
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

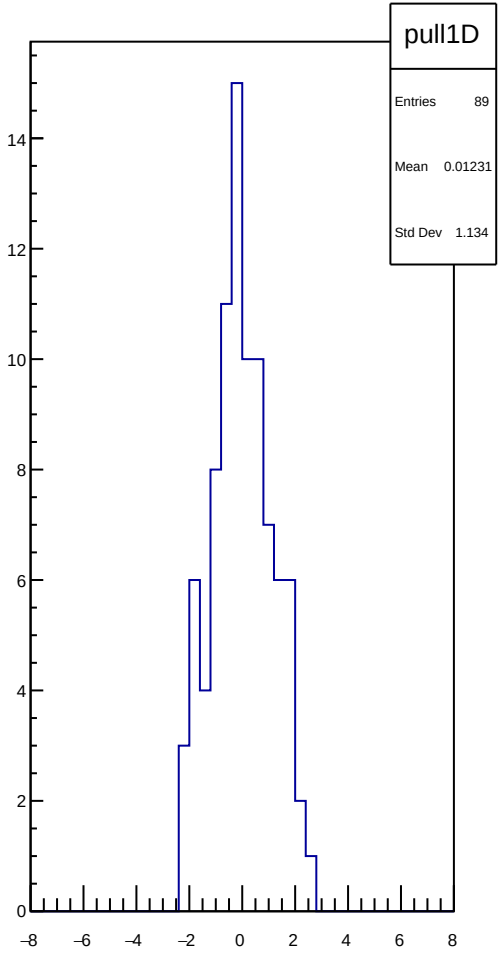

diff_bpm0r05X_rms vs run
×10^3
105
100
95
90
85
80
χ² / ndf 6683 / 88
p0 9.137e+04 ± 69.6

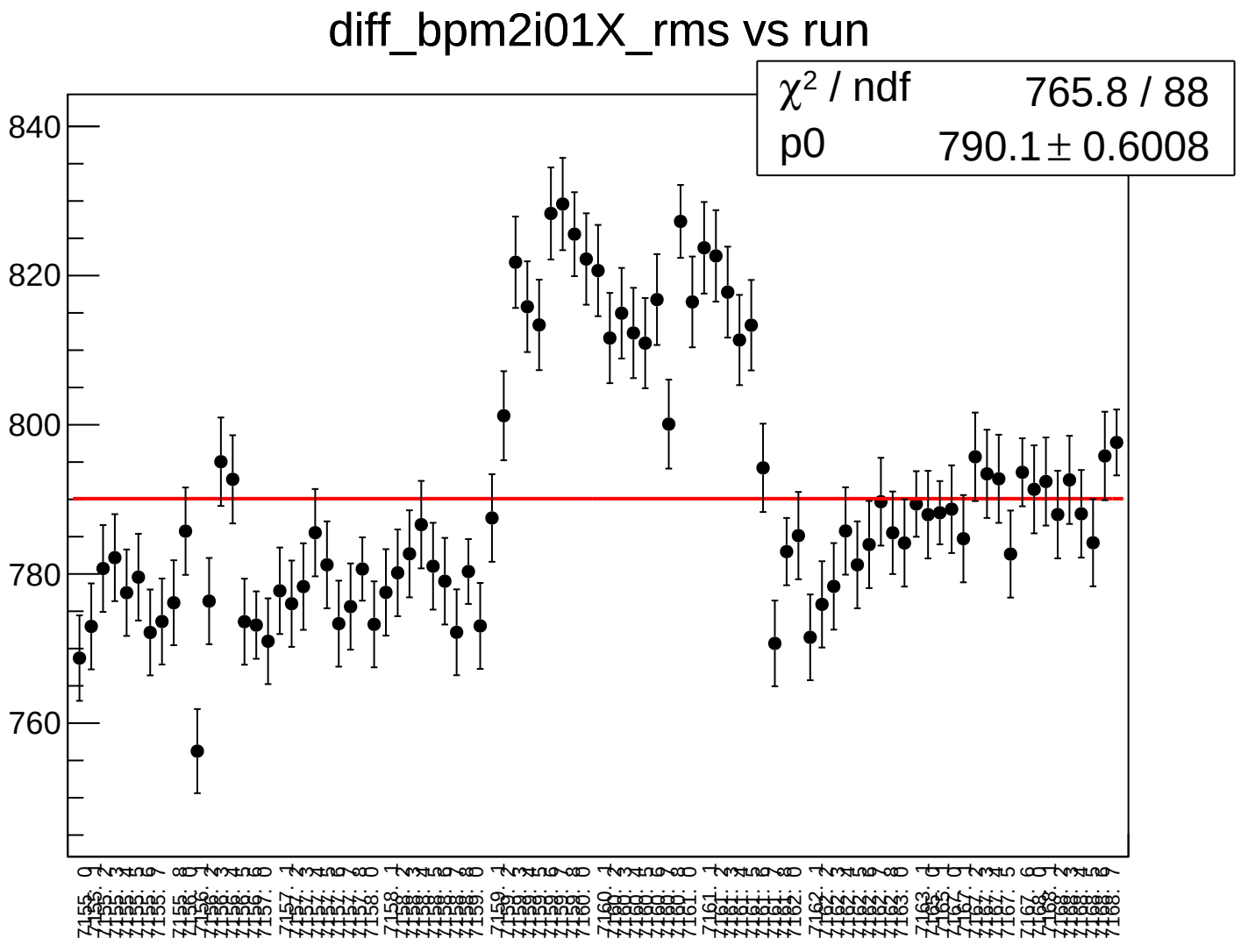

diff_bpm0r05Y_mean vs run
χ² / ndf 64.16 / 88
p0 11.75 ± 4.557
pull
Entries 89
Mean −206.6
Std Dev 0

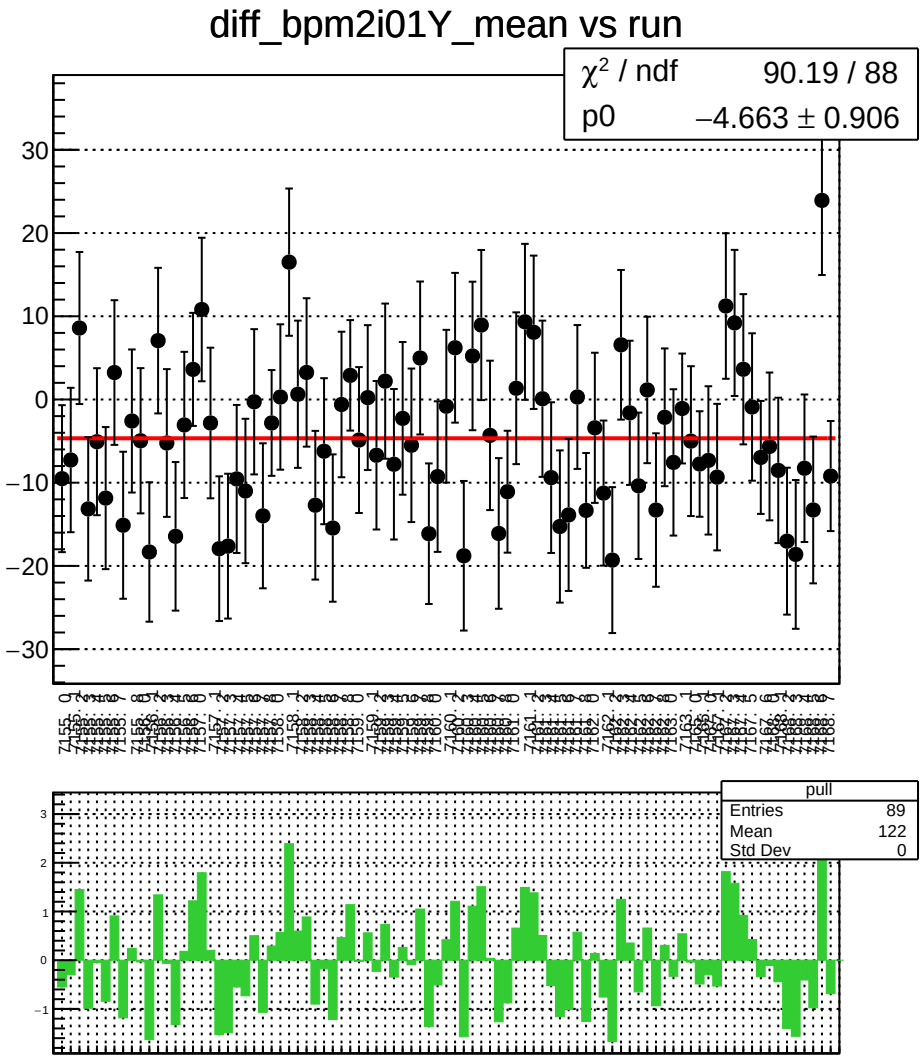

pull1D
Entries 89
Mean 0.00917
Std Dev 0.849

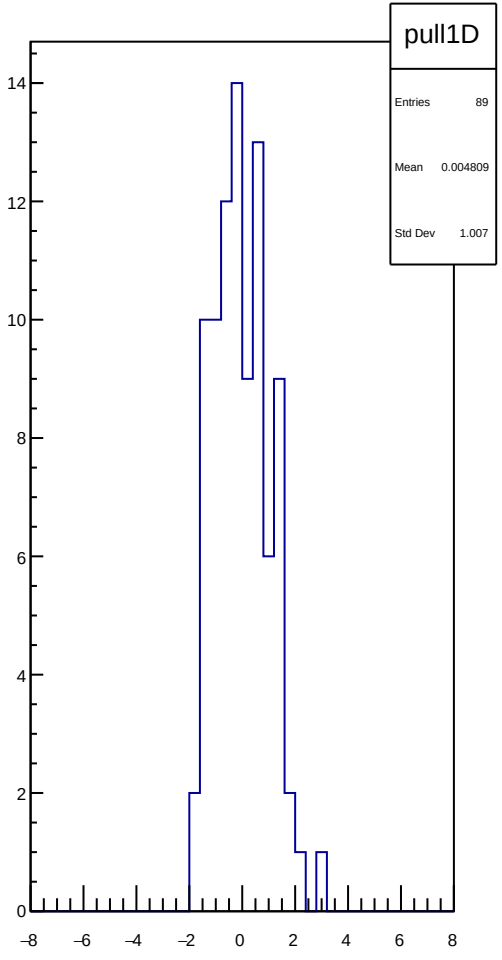

diff_bpm0r05Y_rms vs run
χ² / ndf 8158 / 88
p0 4228 ± 3.222
5000
4800
4600
4400
4200
4000
3800
3600

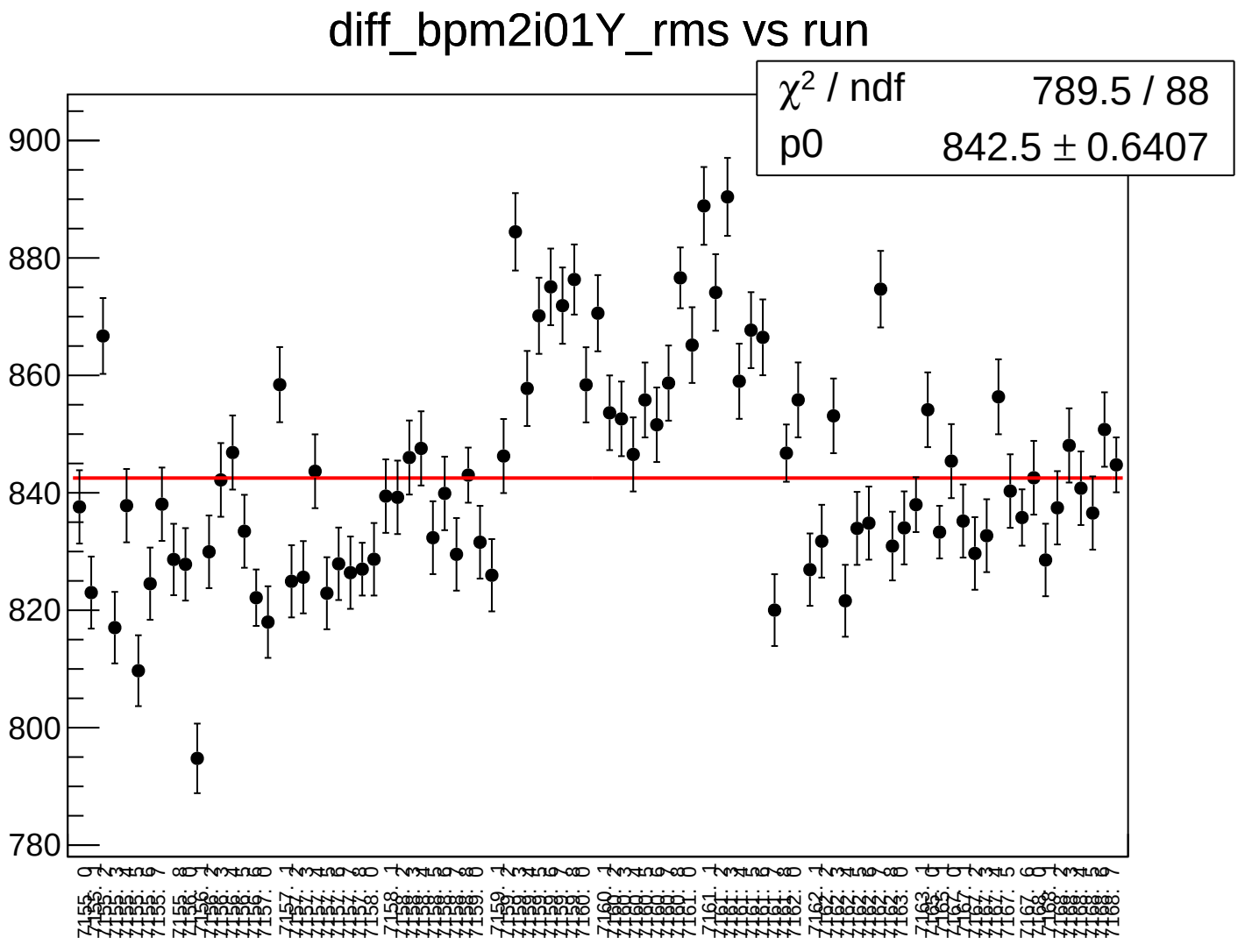

diff_bpm2i01X_mean vs run
χ² / ndf 114.5 / 88
p0 −3.268 ± 0.8497
pull
Entries 89
Mean −5.764
Std Dev 0

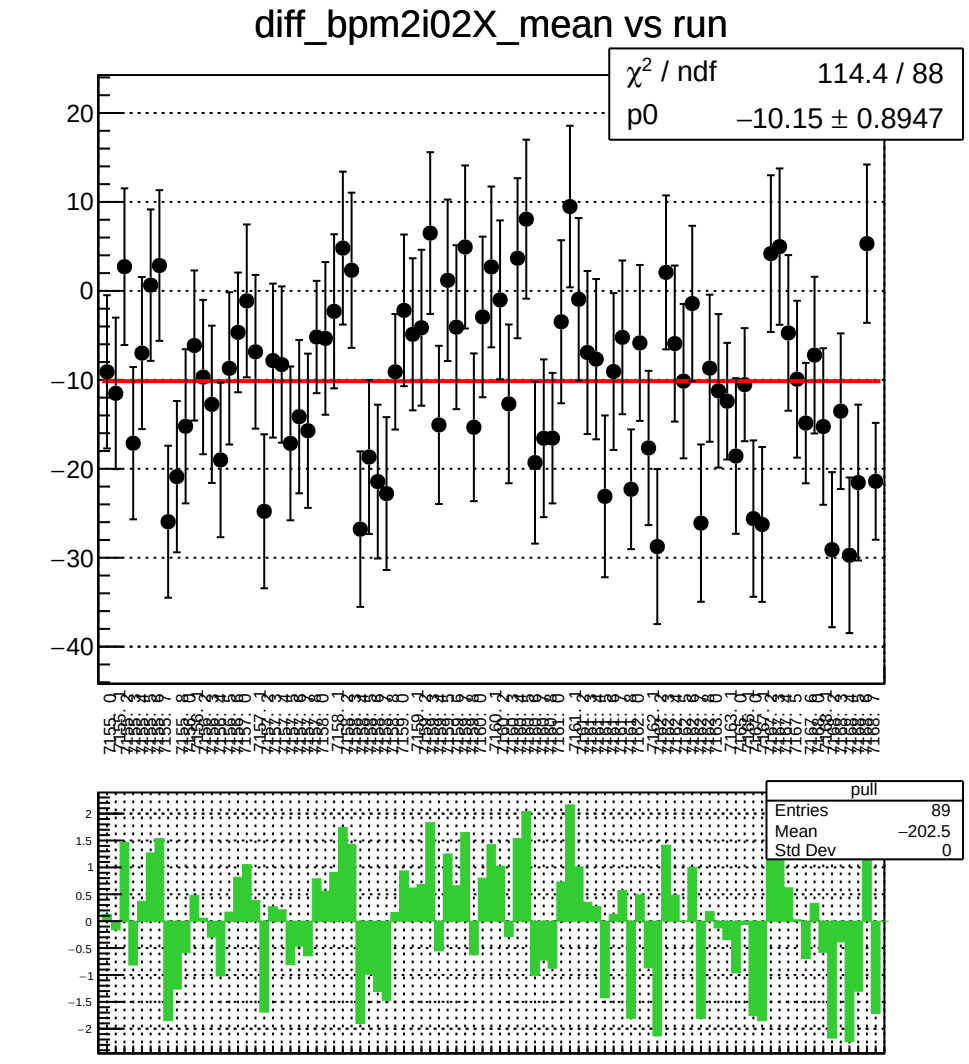

pull1D
Entries 89
Mean 0.01231
Std Dev 1.134

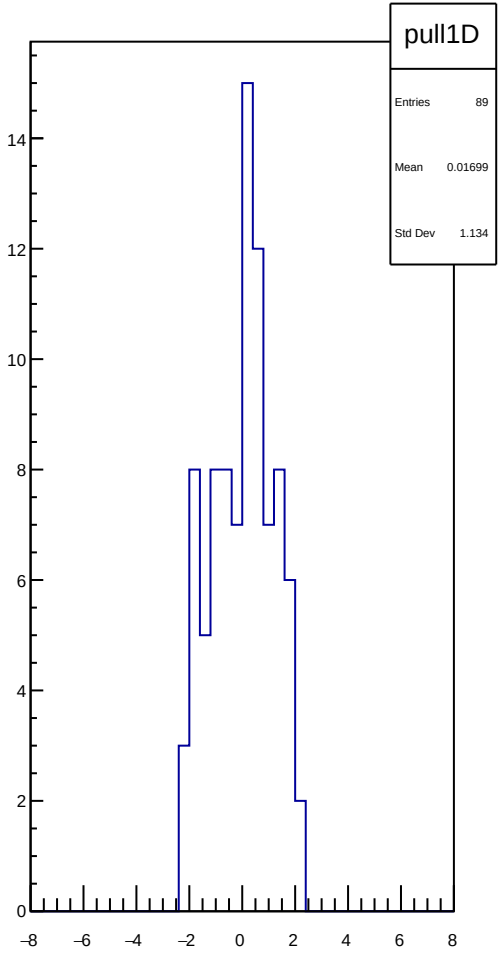

diff_bpm2i01X_rms vs run
χ² / ndf 765.8 / 88
p0 790.1 ± 0.6008
840
820
800
780
760

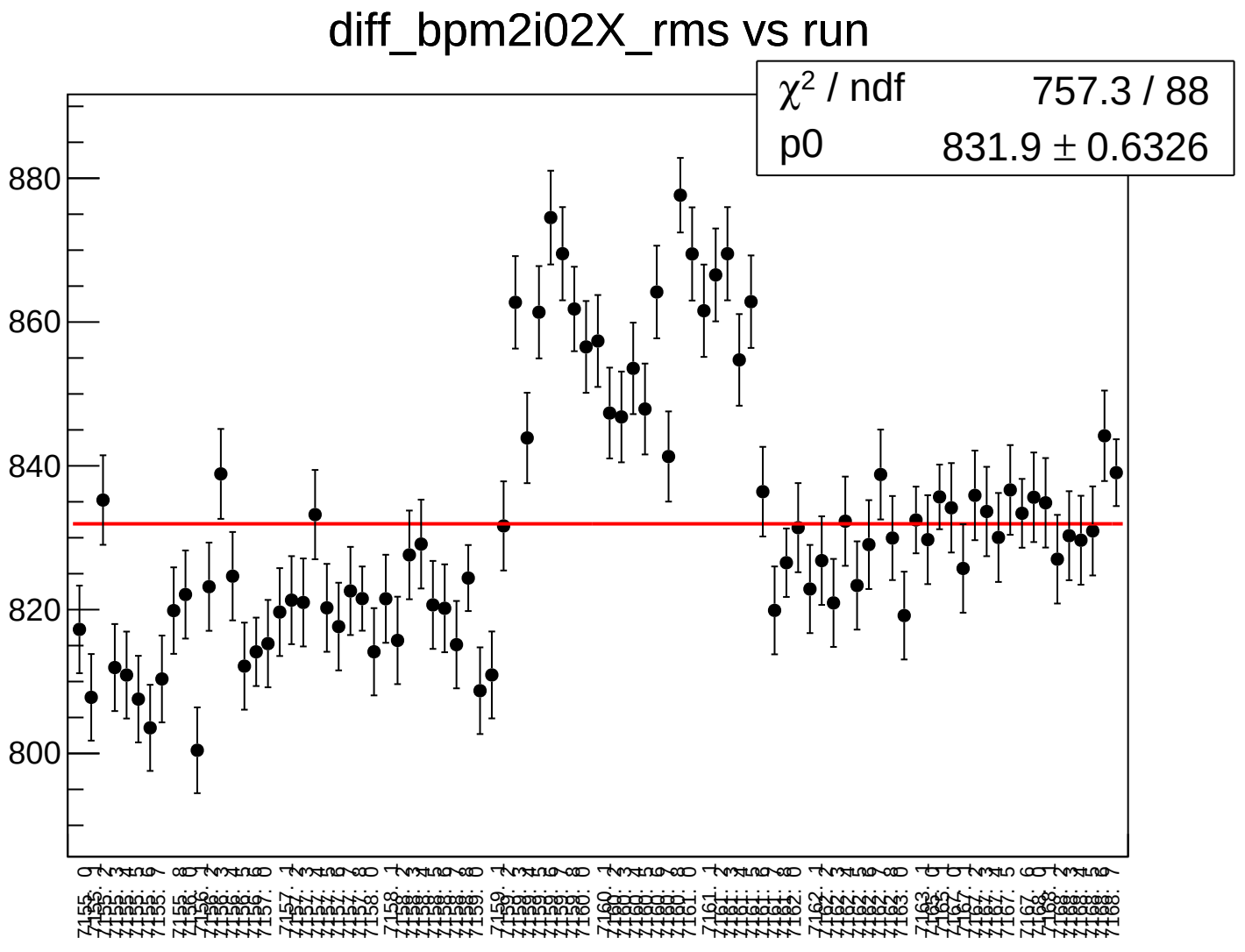

diff_bpm2i01Y_mean vs run
χ² / ndf 90.19 / 88
p0 −4.663 ± 0.906
pull
Entries 89
Mean 122
Std Dev 0

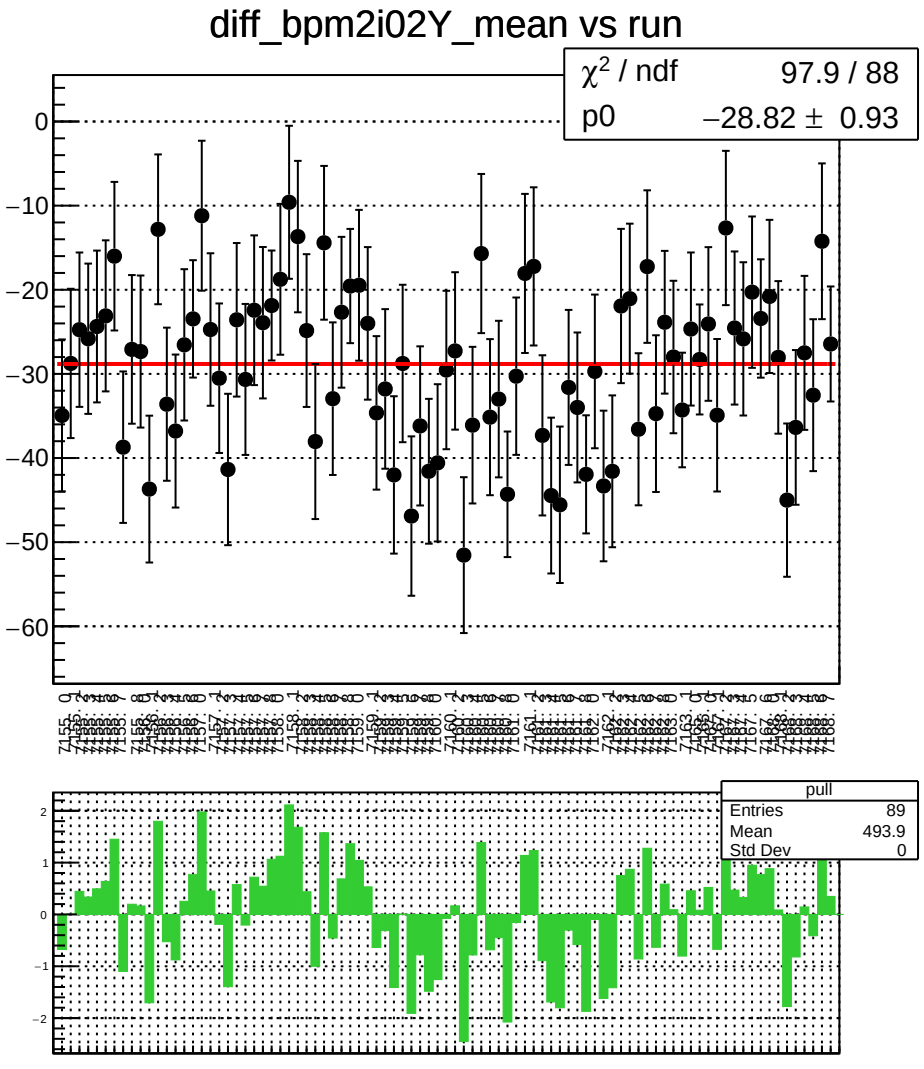

pull1D
Entries 89
Mean 0.004809
Std Dev 1.007

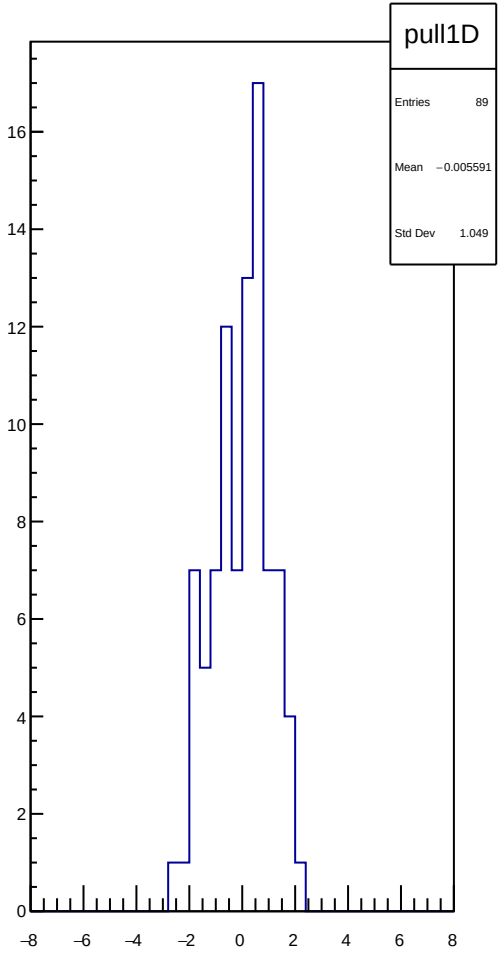

diff_bpm2i01Y_rms vs run
χ² / ndf 789.5 / 88
p0 842.5 ± 0.6407
900
880
860
840
820
800
780

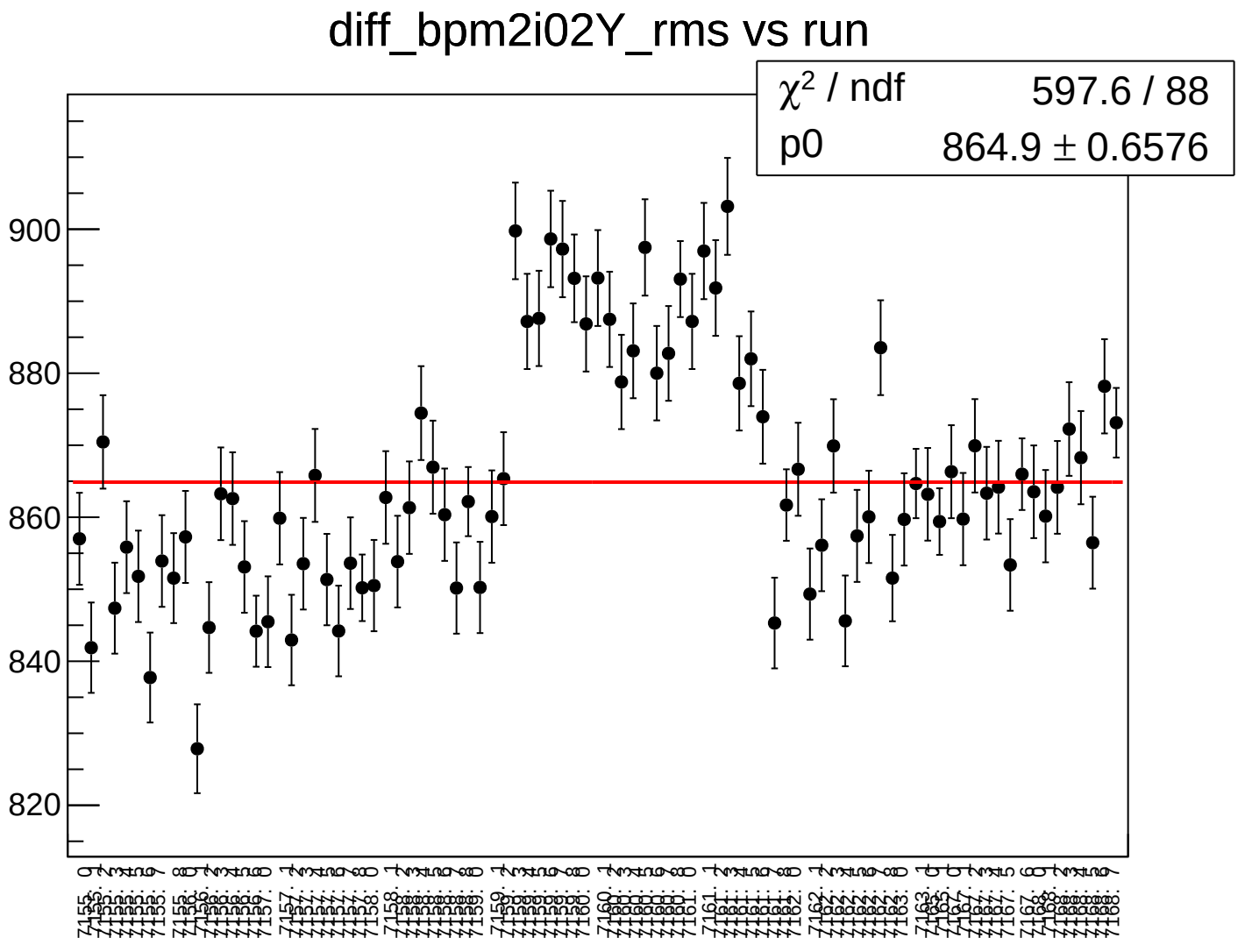

diff_bpm2i02X_mean vs run
χ² / ndf 114.4 / 88
p0 −10.15 ± 0.8947
pull
Entries 89
Mean −202.5
Std Dev 0

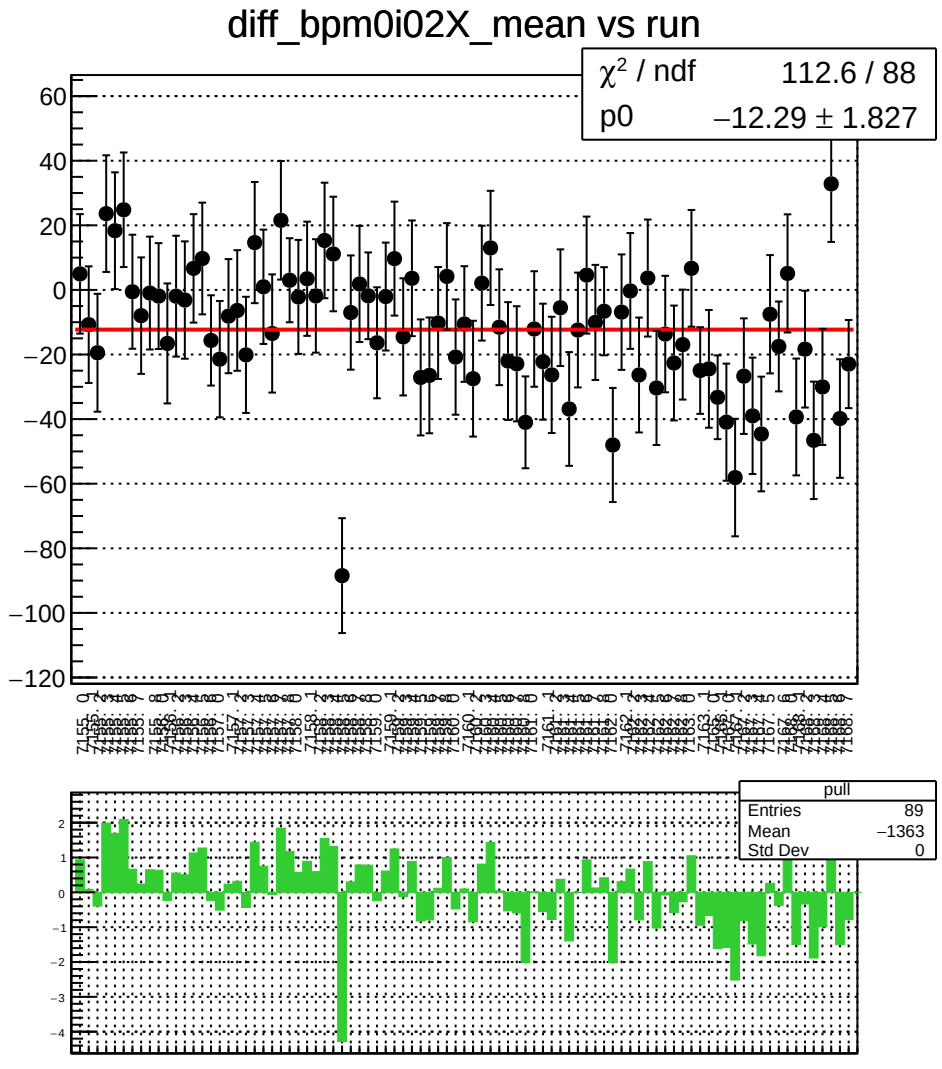

pull1D
Entries 89
Mean 0.01699
Std Dev 1.134

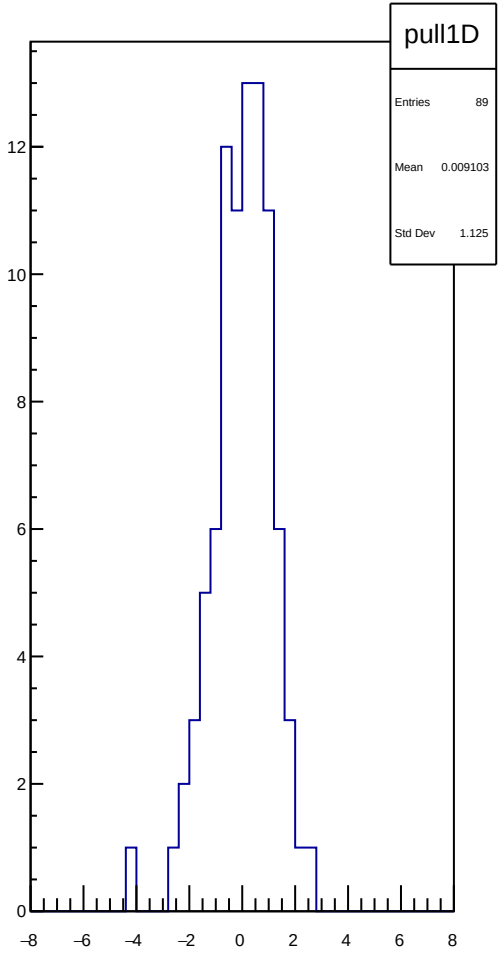

diff_bpm2i02X_rms vs run
χ² / ndf 757.3 / 88
p0 831.9 ± 0.6326
880
860
840
820
800

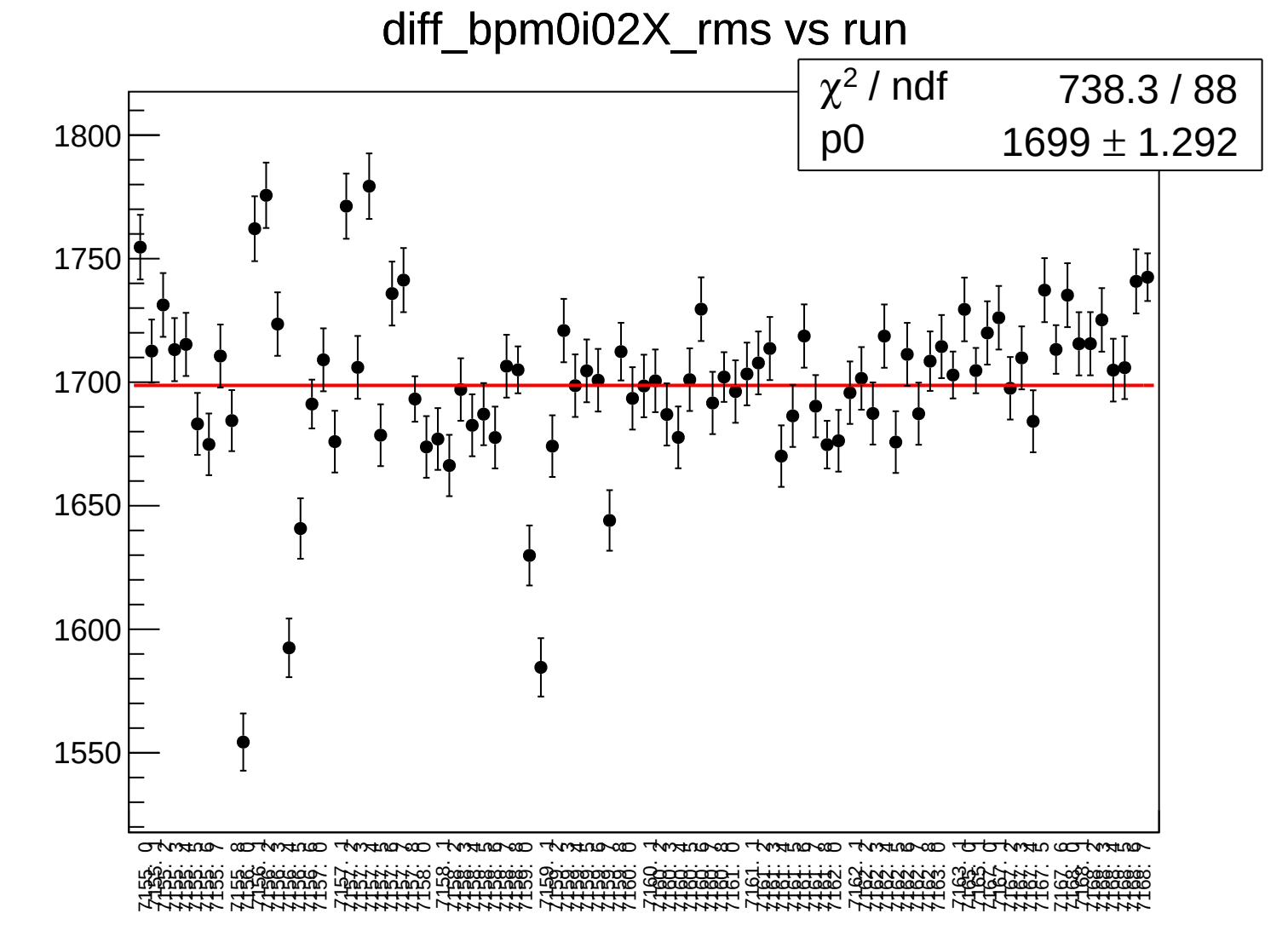

diff_bpm2i02Y_mean vs run
χ² / ndf 97.9 / 88
p0 −28.82 ± 0.93
pull
Entries 89
Mean 493.9
Std Dev 0

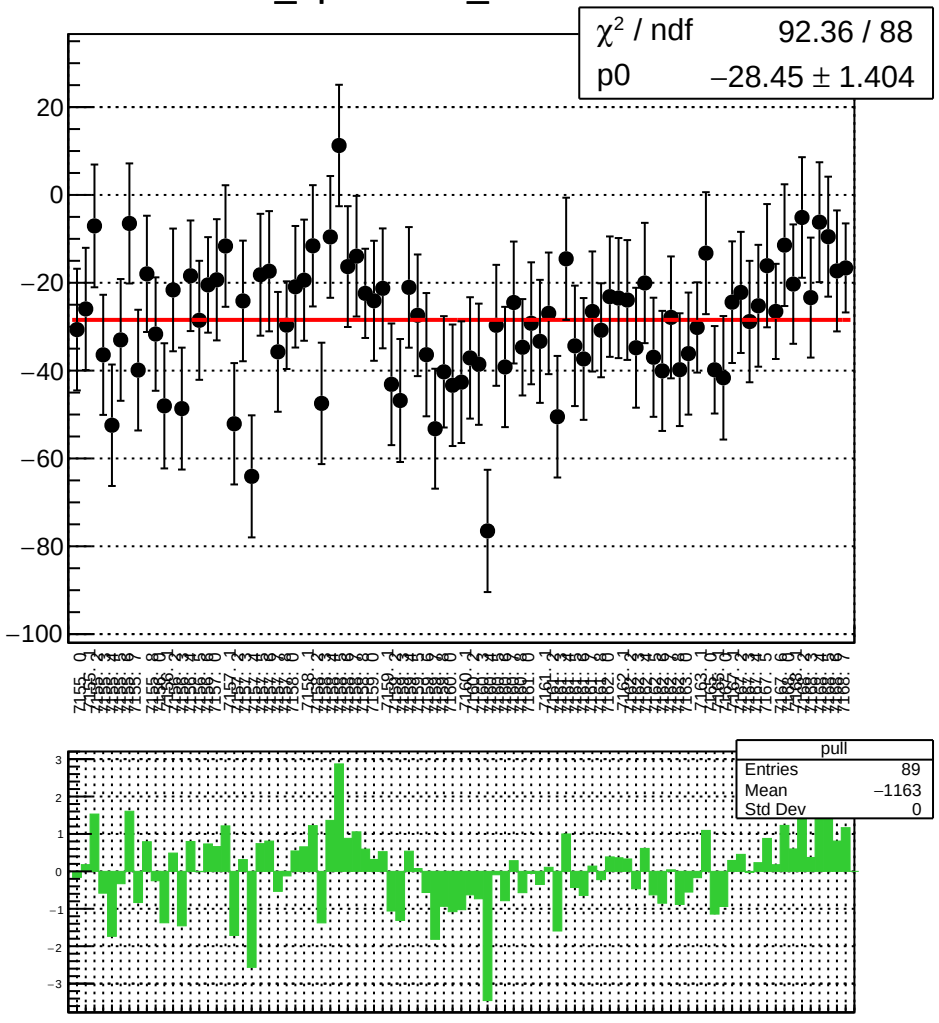

pull1D
Entries 89
Mean −0.005591
Std Dev 1.049

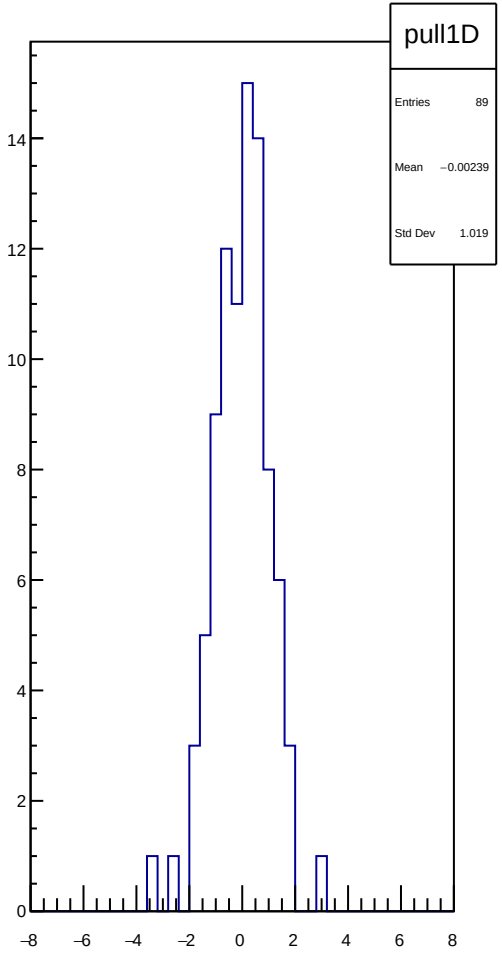

diff_bpm2i02Y_rms vs run
χ² / ndf 597.6 / 88
p0 864.9 ± 0.6576
900
880
860
840
820

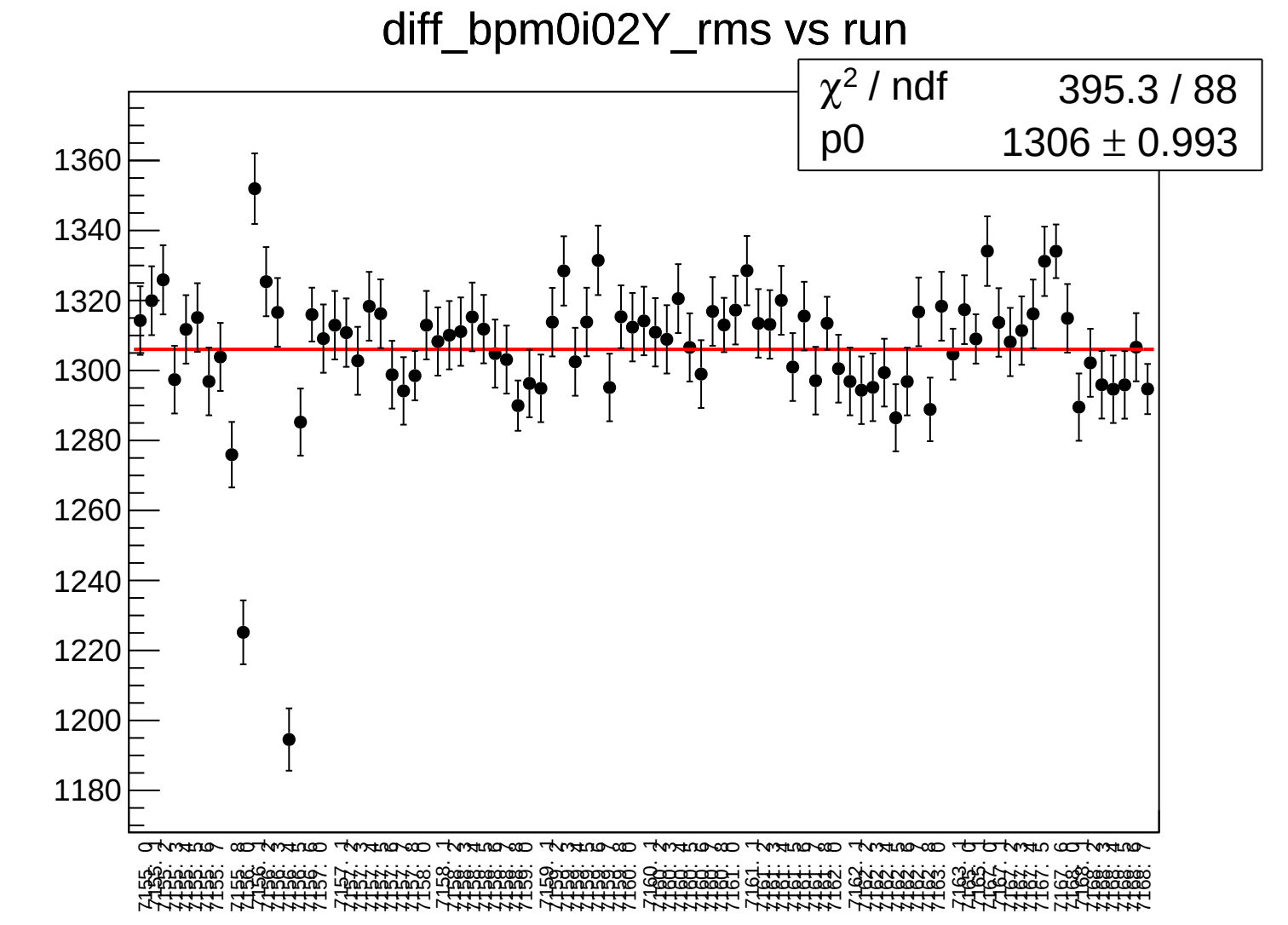

diff_bpm0i02X_mean vs run
χ² / ndf 112.6 / 88
p0 −12.29 ± 1.827
pull
Entries 89
Mean −1363
Std Dev 0

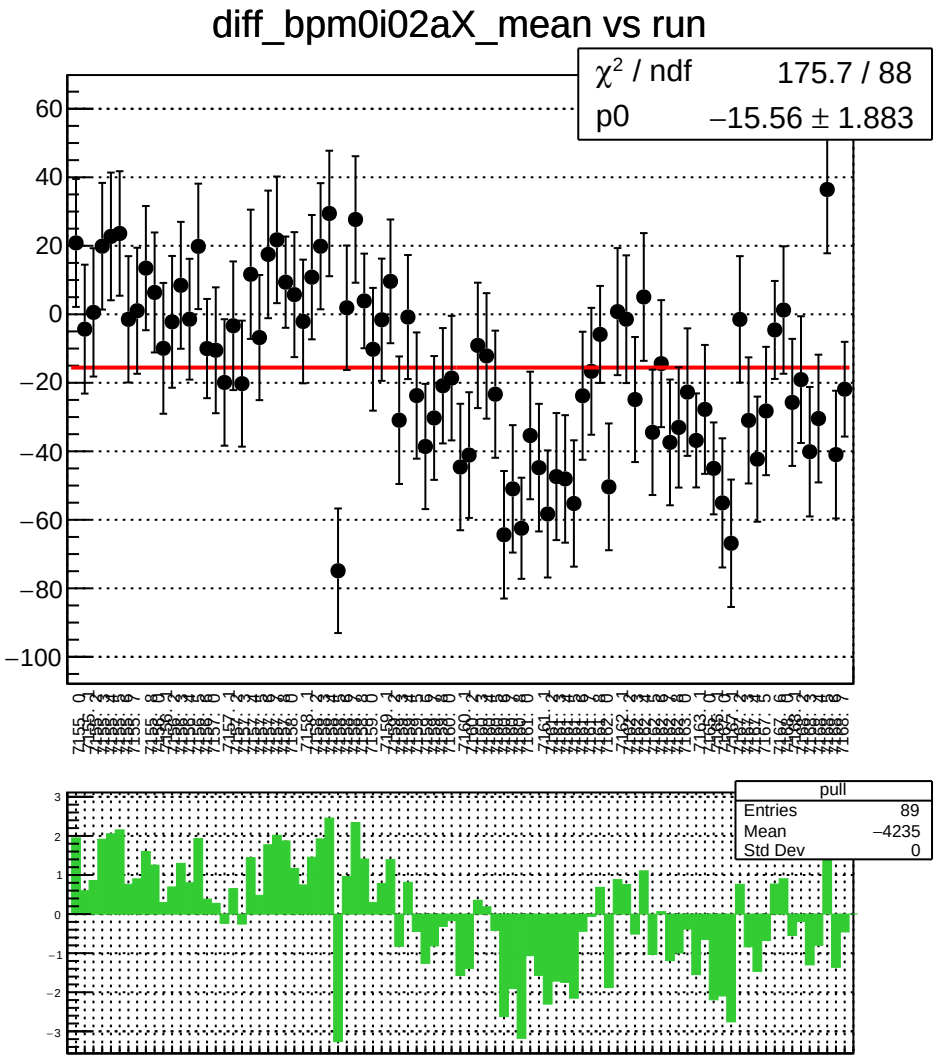

pull1D
Entries 89
Mean 0.009103
Std Dev 1.125

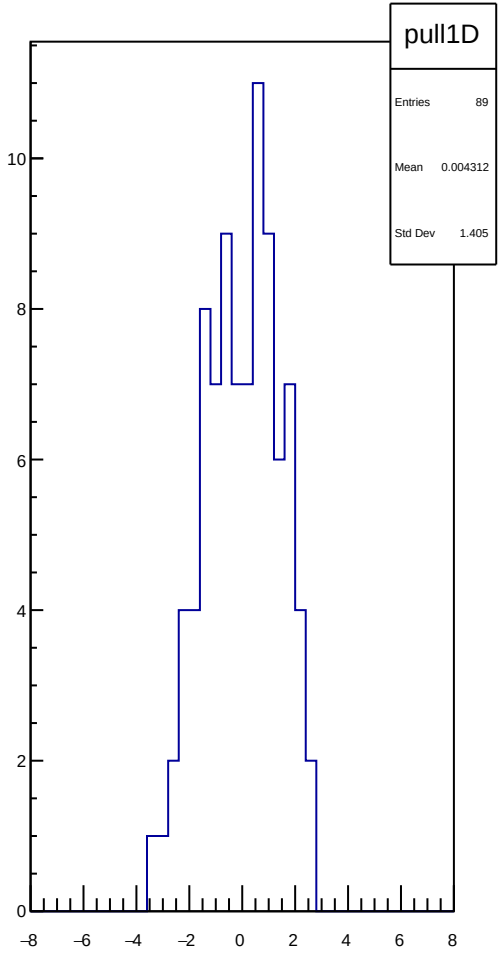

diff_bpm0i02X_rms vs run
χ² / ndf 738.3 / 88
p0 1699 ± 1.292
1800
1750
1700
1650
1600
1550

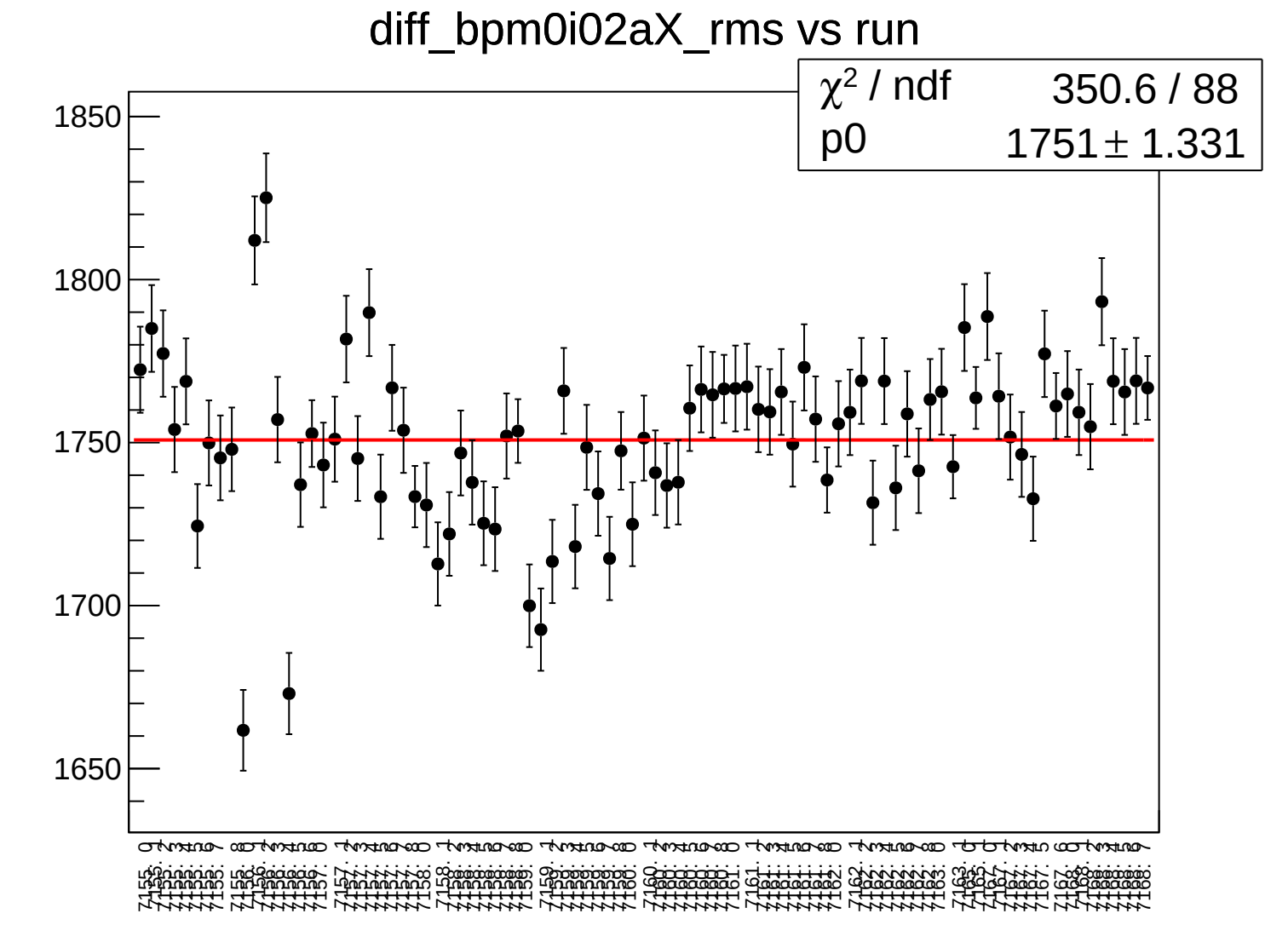

diff_bpm0i02Y_mean vs run
χ² / ndf 92.36 / 88
p0 −28.45 ± 1.404
pull
Entries 89
Mean −1163
Std Dev 0

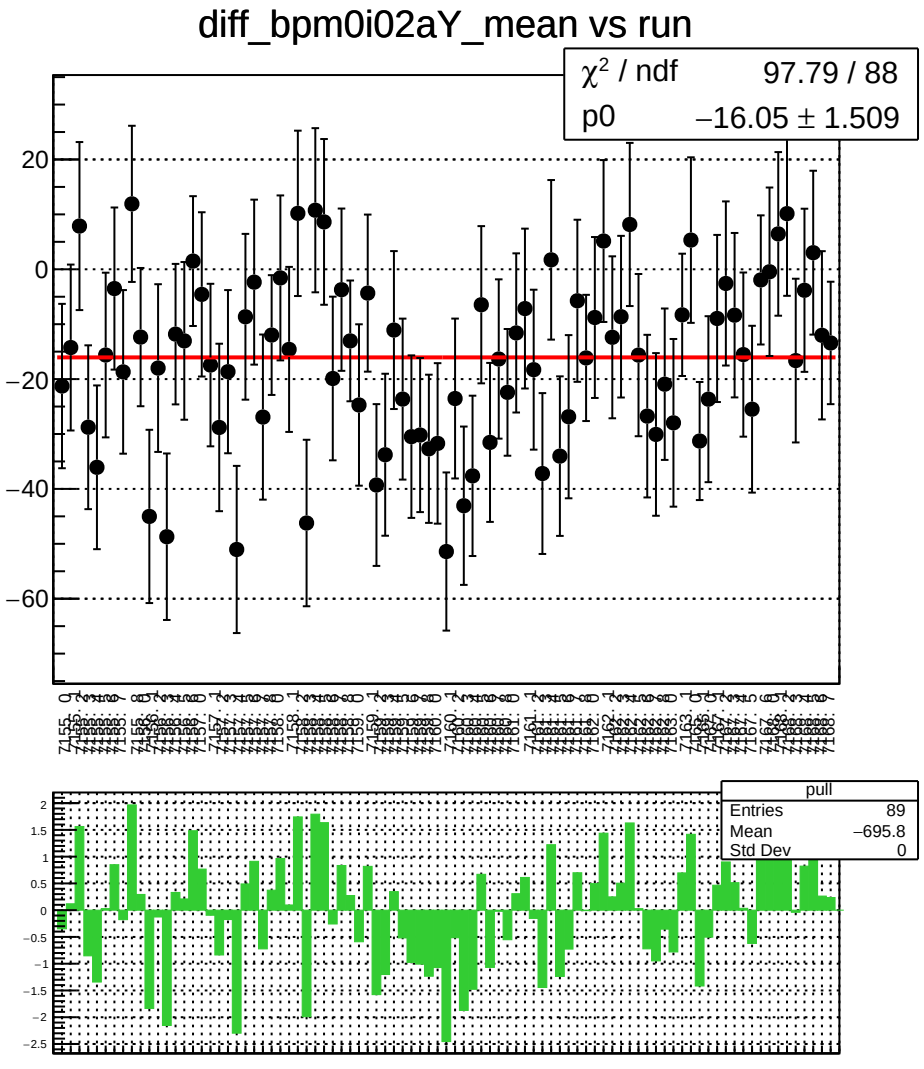

pull1D
Entries 89
Mean −0.00239
Std Dev 1.019

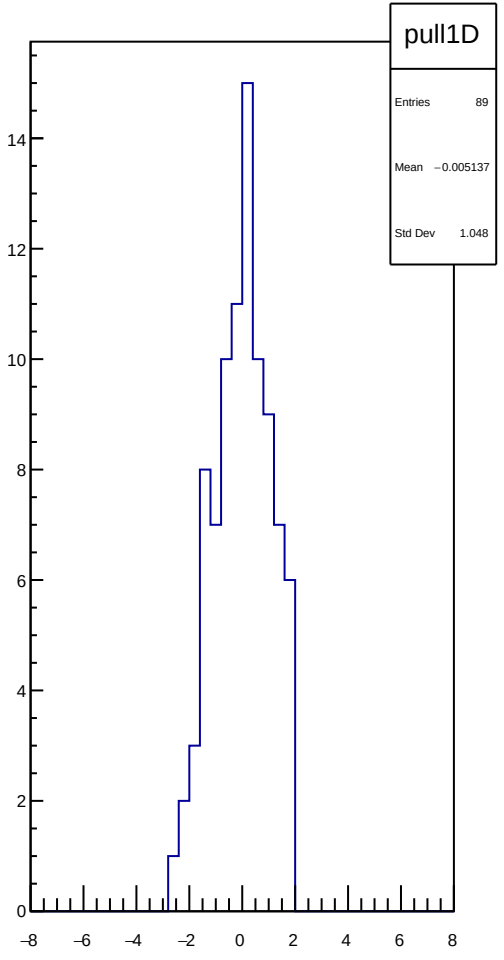

diff_bpm0i02Y_rms vs run
χ² / ndf 395.3 / 88
p0 1306 ± 0.993
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

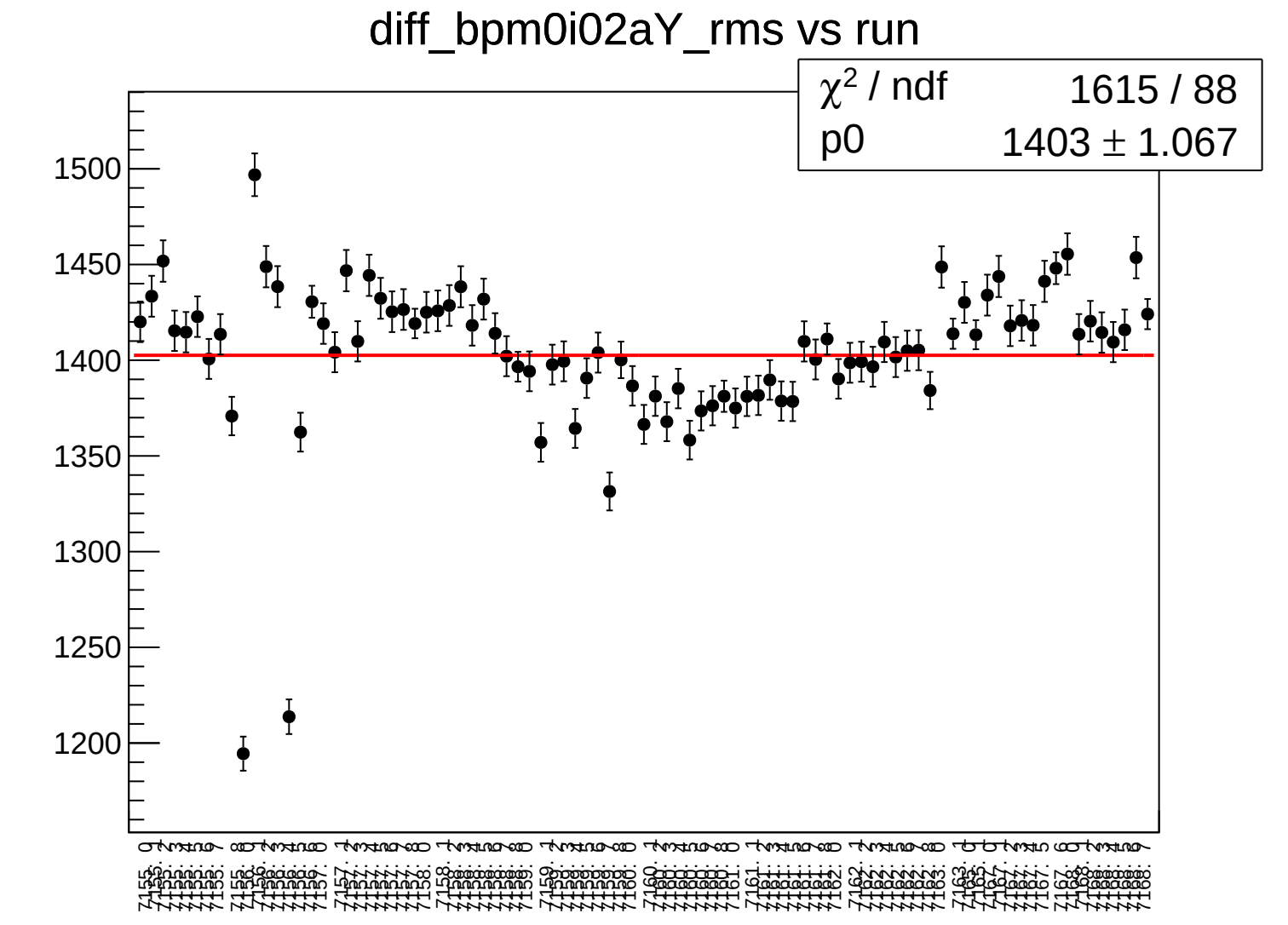

diff_bpm0i02aX_mean vs run
χ² / ndf 175.7 / 88
p0 −15.56 ± 1.883
pull
Entries 89
Mean −4235
Std Dev 0

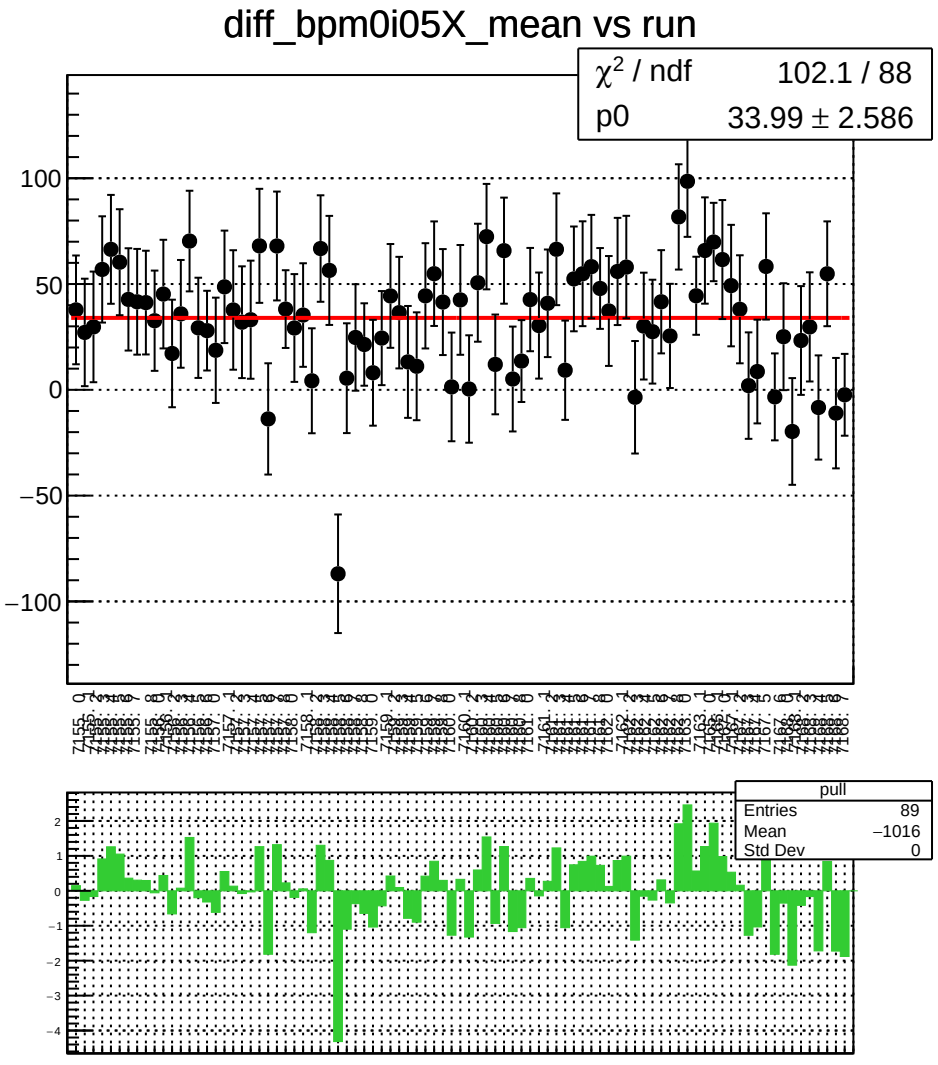

pull1D
Entries 89
Mean 0.004312
Std Dev 1.405

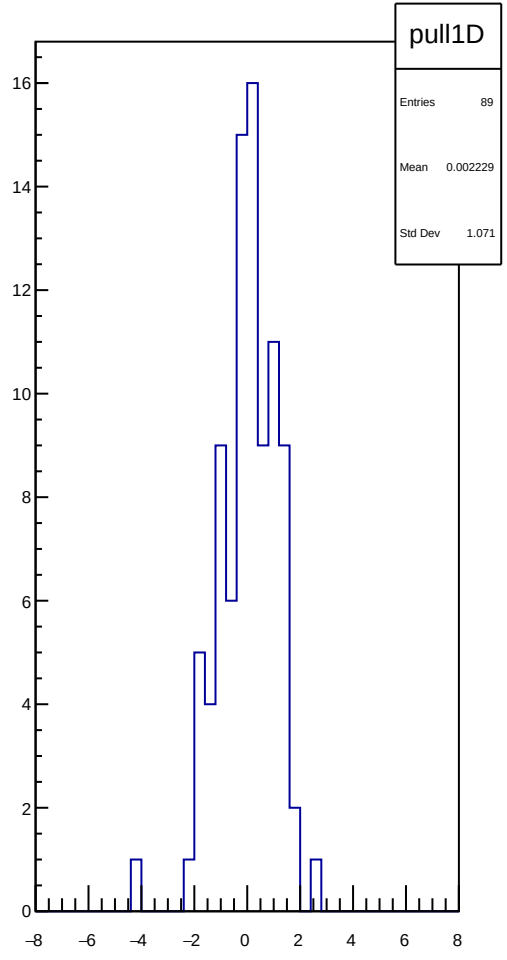

diff_bpm0i02aX_rms vs run
χ² / ndf 350.6 / 88
p0 1751 ± 1.331
1850
1800
1750
1700
1650

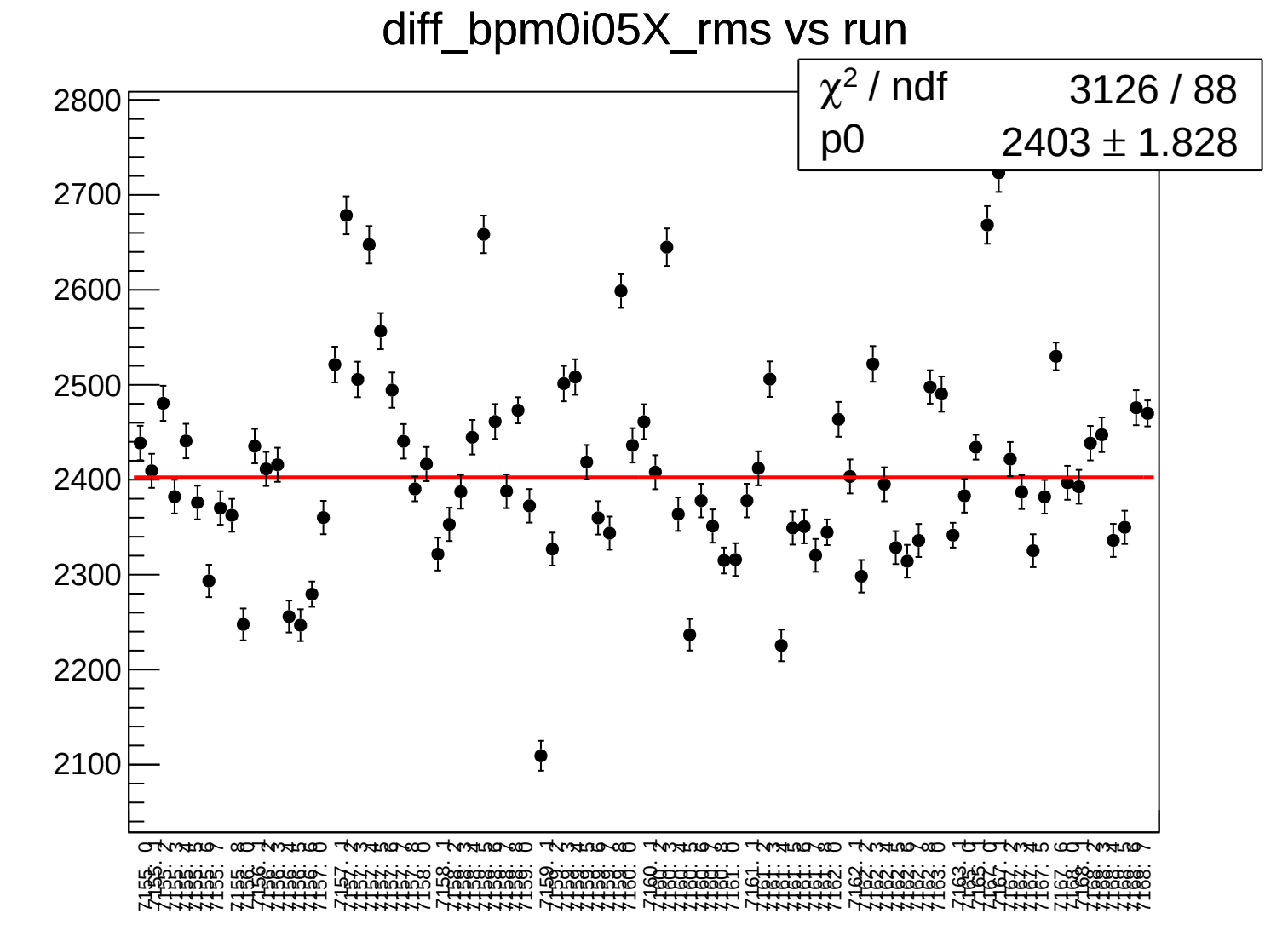

diff_bpm0i02aY_mean vs run
χ^2 / ndf 97.79 / 88
p0 −16.05 ± 1.509
pull
Entries 89
Mean −695.8
Std Dev 0

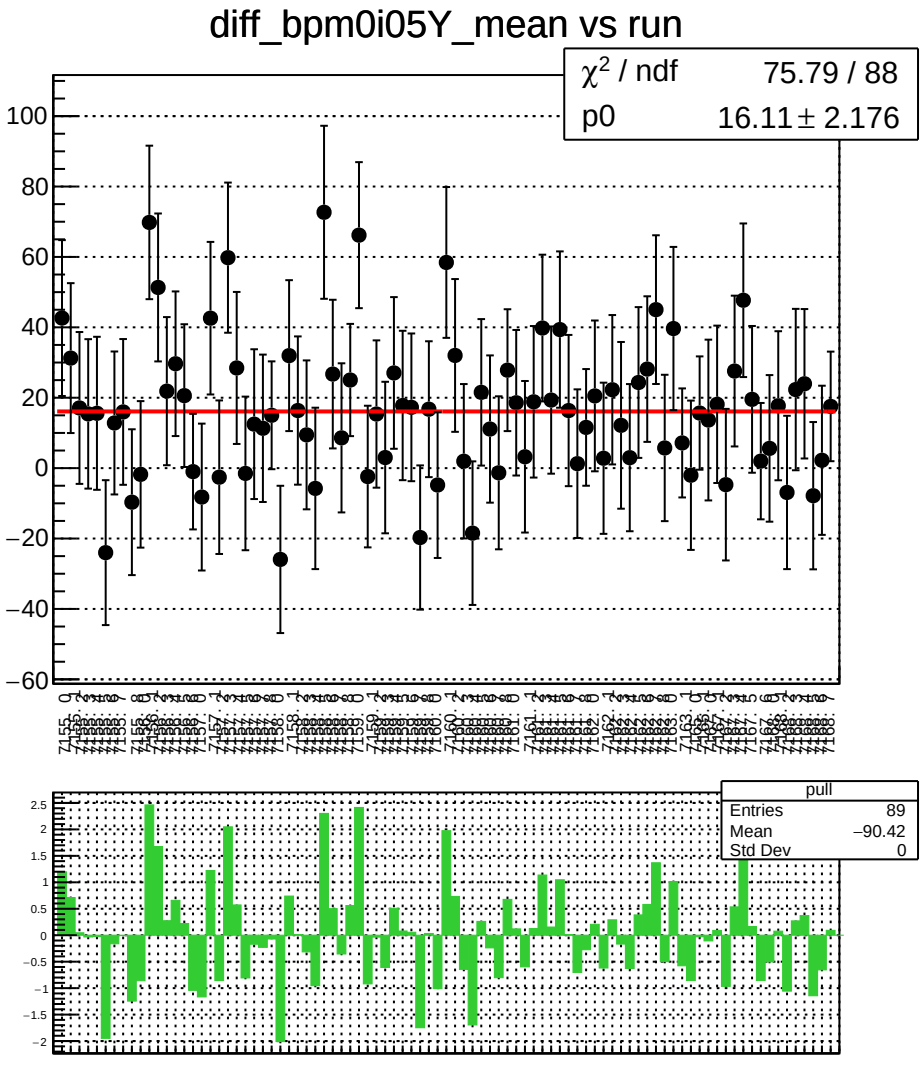

pull1D
Entries 89
Mean −0.005137
Std Dev 1.048

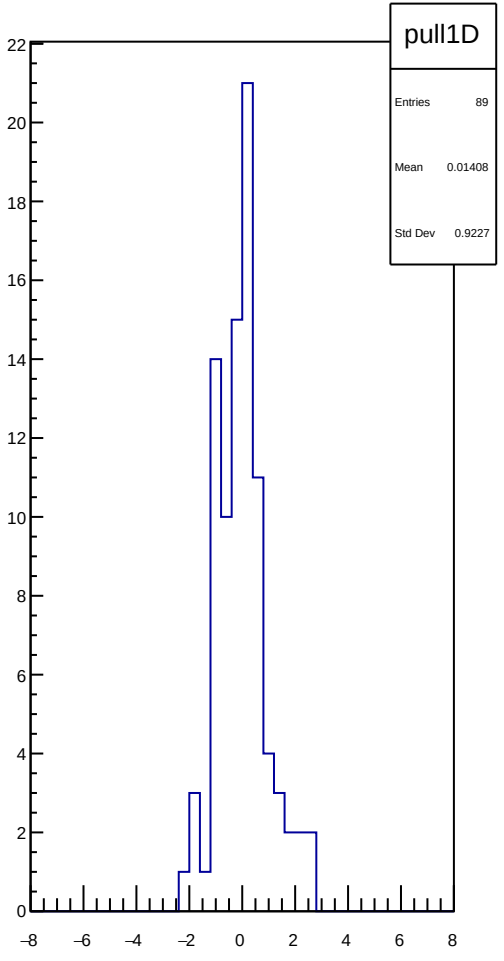

diff_bpm0i02aY_rms vs run
χ² / ndf 1615 / 88
p0 1403 ± 1.067
1500
1450
1400
1350
1300
1250
1200

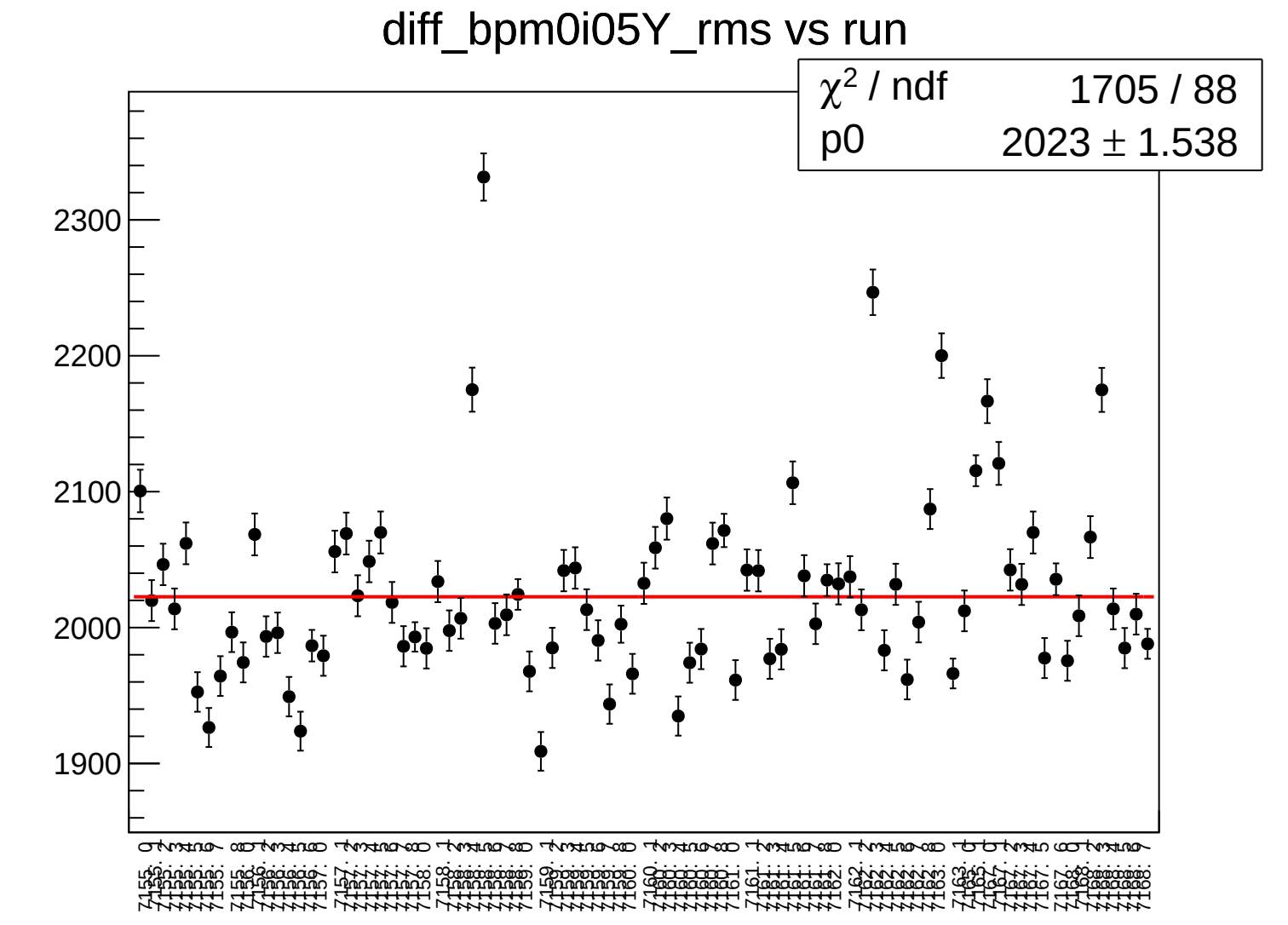

diff_bpm0i05X_mean vs run
χ^2 / ndf 102.1 / 88
p0 33.99 ± 2.586
100
50
0
−50
−100
pull
Entries 89
Mean −1016
Std Dev 0
2
1
0
−1
−2
−3
−4

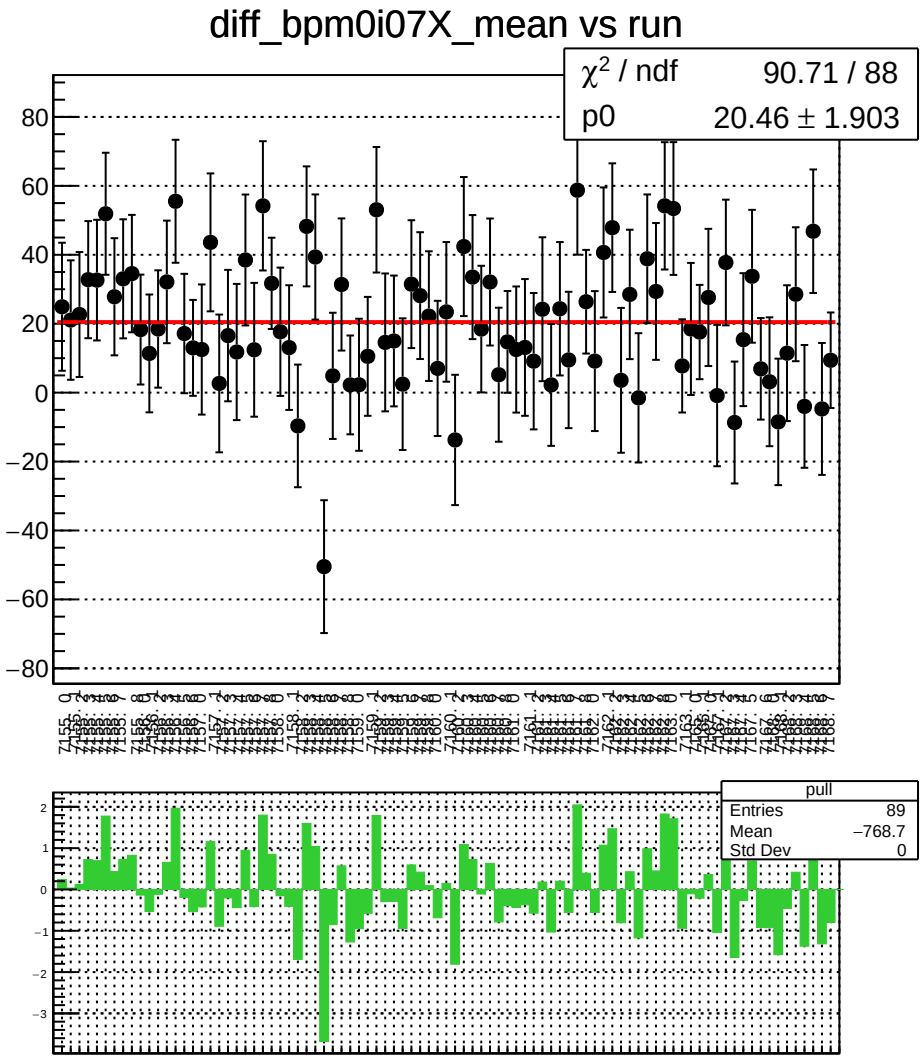

pull1D
Entries 89
Mean 0.002229
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

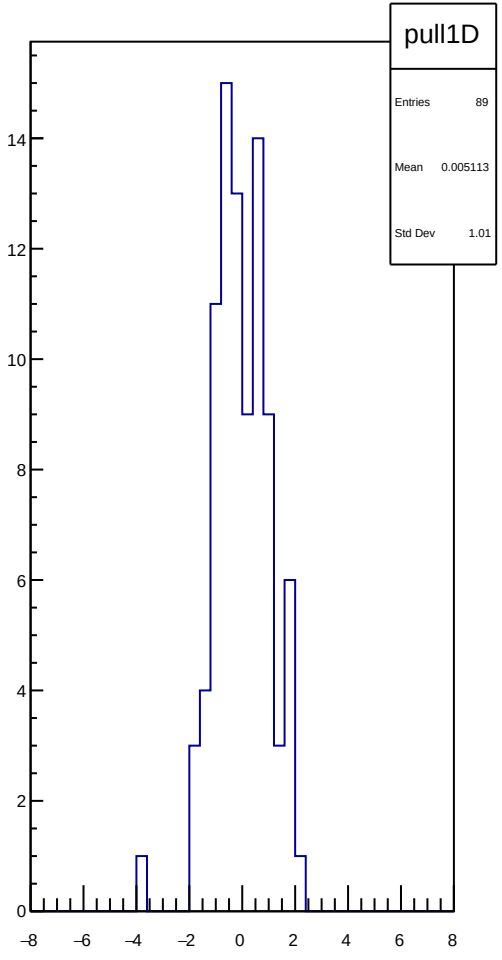

diff_bpm0i05X_rms vs run
χ² / ndf 3126 / 88
p0 2403 ± 1.828
2800
2700
2600
2500
2400
2300
2200
2100

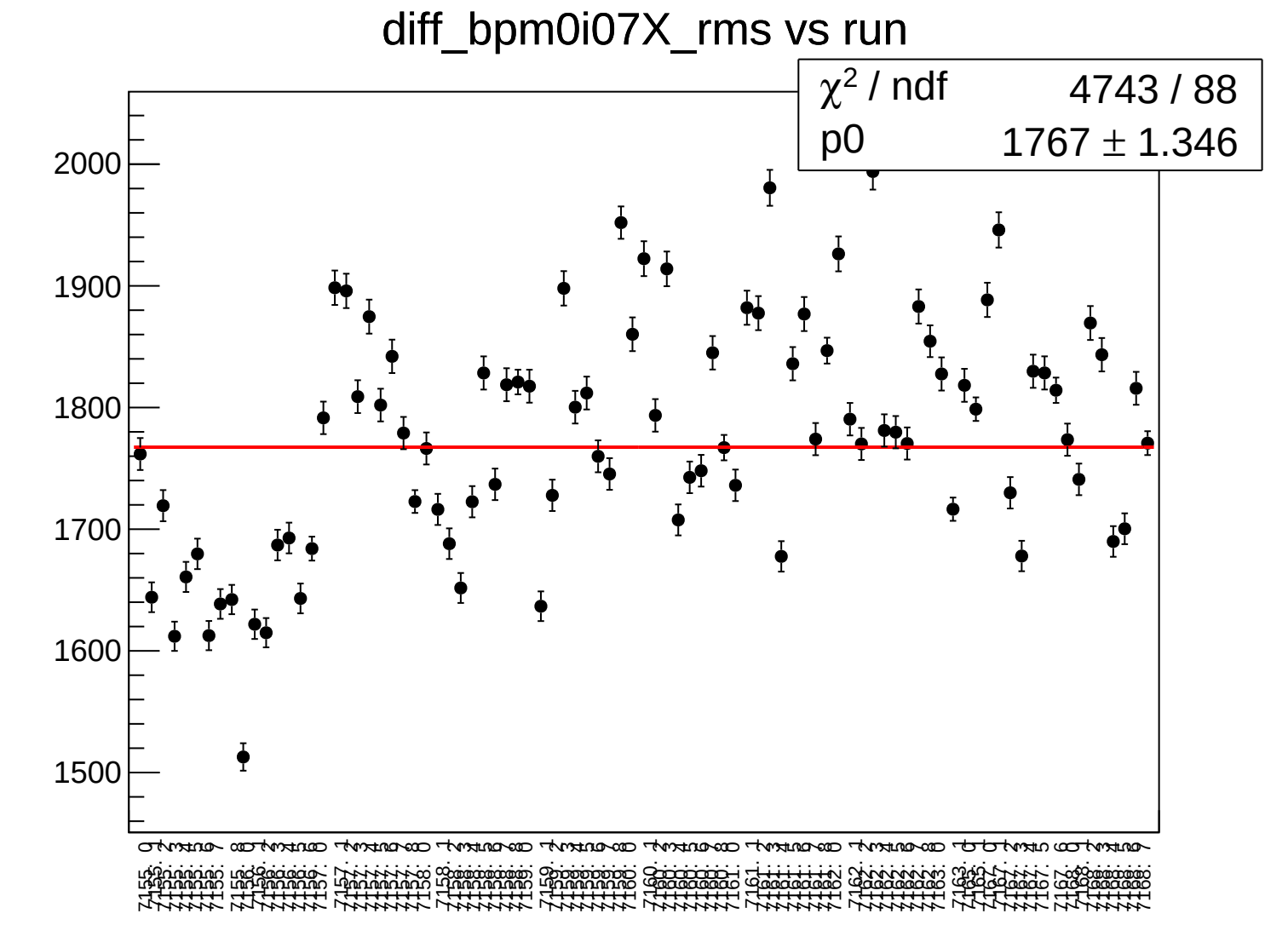

diff_bpm0i05Y_mean vs run
χ^2 / ndf 75.79 / 88
p0 16.11 ± 2.176
pull
Entries 89
Mean −90.42
Std Dev 0

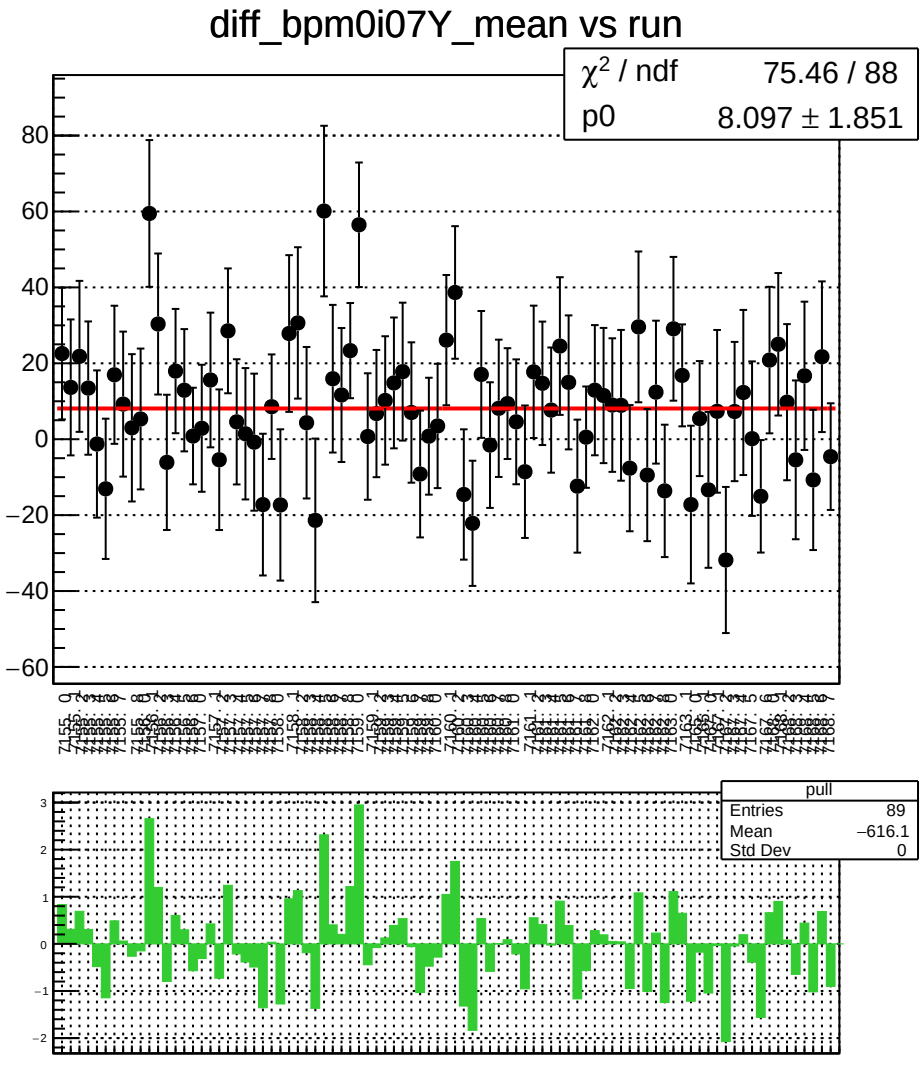

pull1D
Entries 89
Mean 0.01408
Std Dev 0.9227

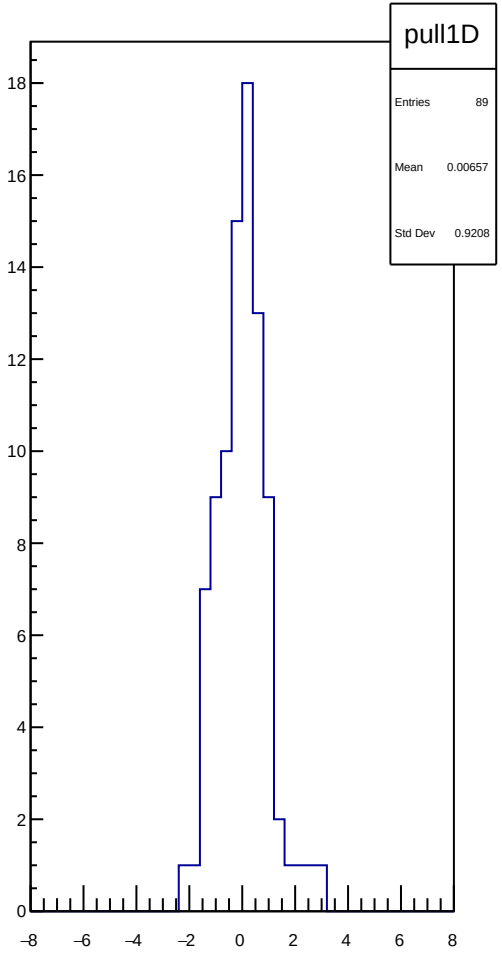

diff_bpm0i05Y_rms vs run
χ² / ndf 1705 / 88
p0 2023 ± 1.538
2300
2200
2100
2000
1900

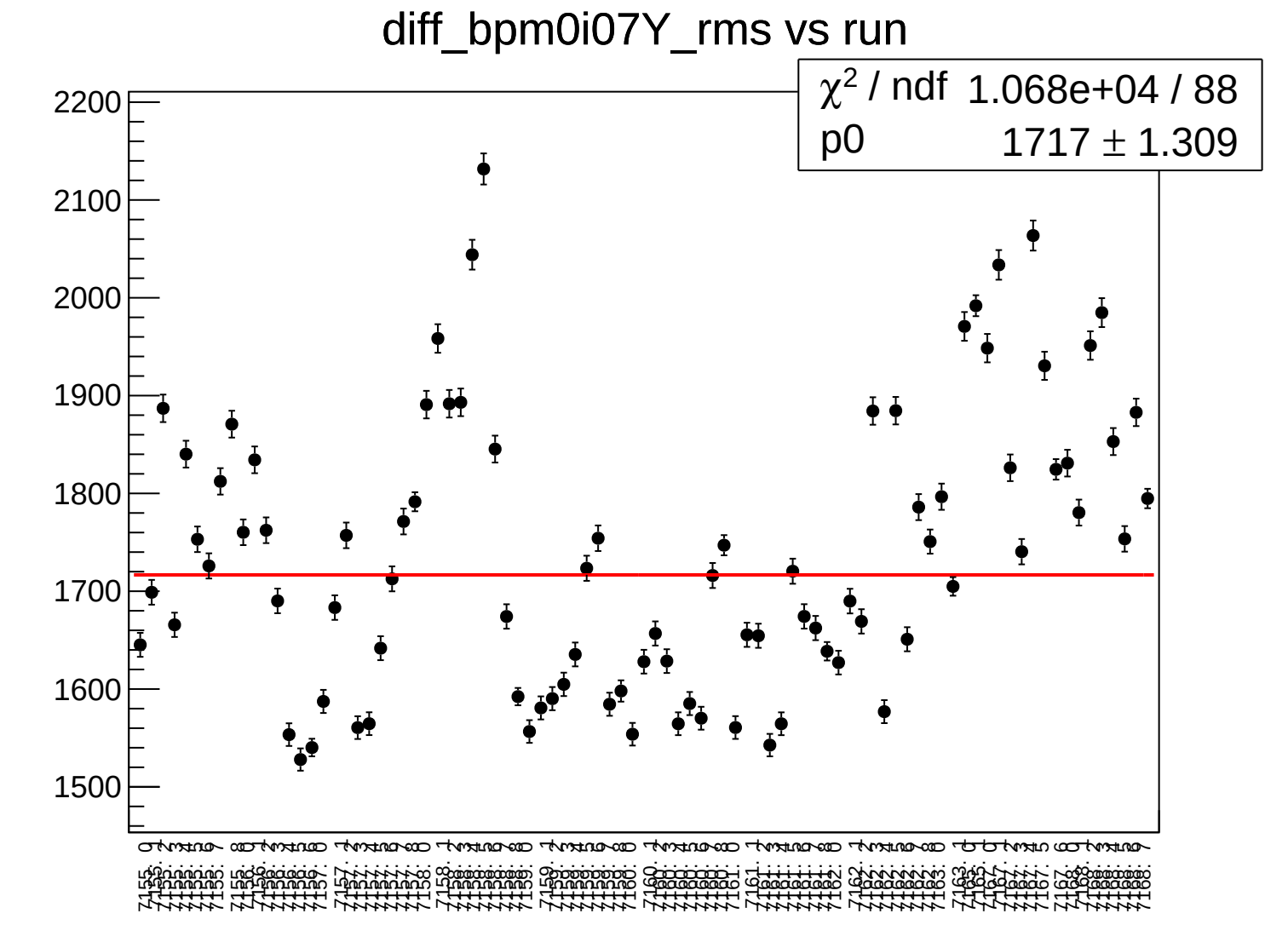

diff_bpm0i07X_mean vs run
χ^2 / ndf 90.71 / 88
p0 20.46 ± 1.903
pull
Entries 89
Mean −768.7
Std Dev 0

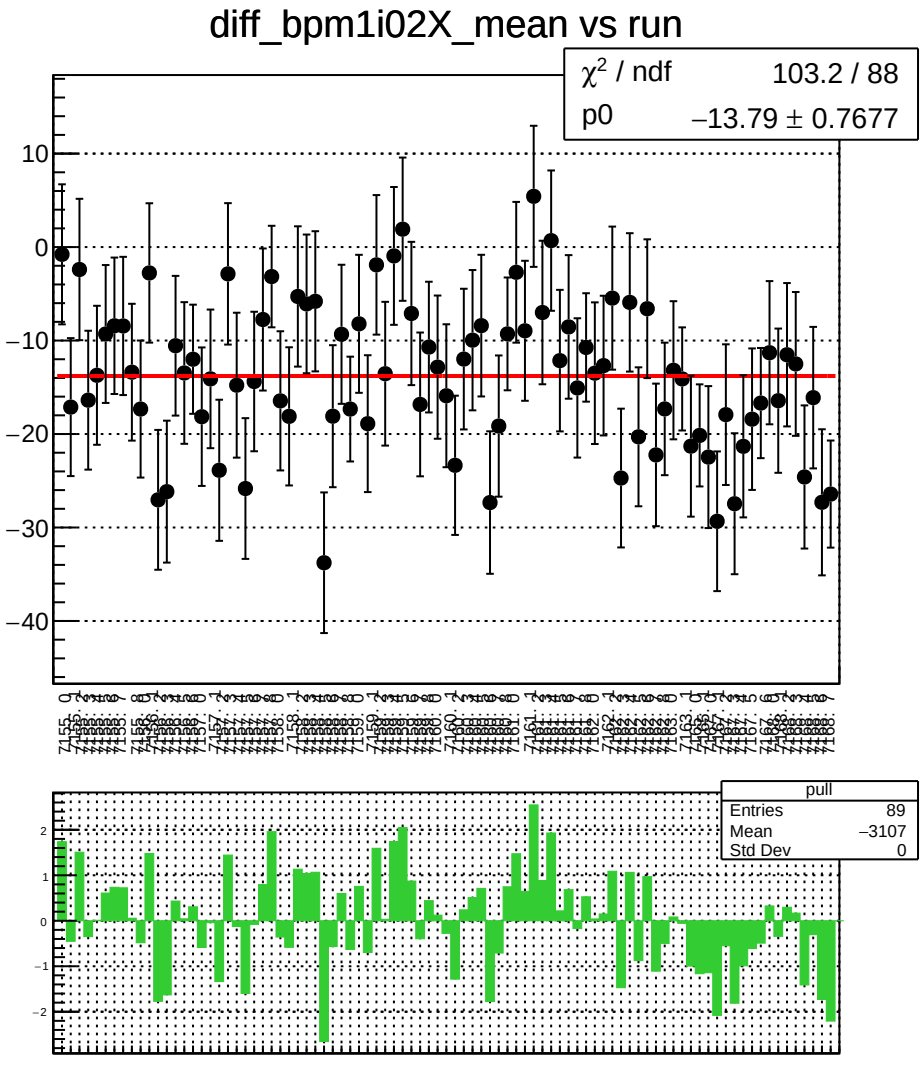

pull1D
Entries 89
Mean 0.005113
Std Dev 1.01

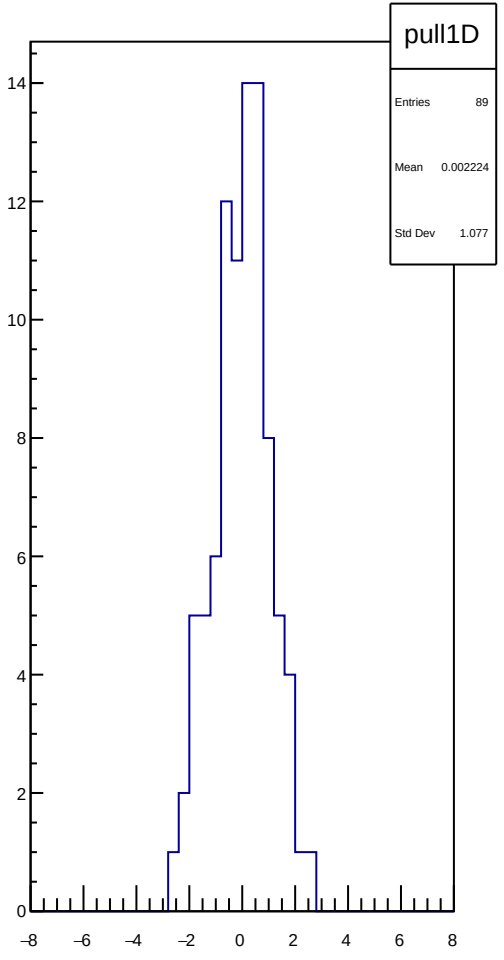

diff_bpm0i07X_rms vs run
χ² / ndf 4743 / 88
p0 1767 ± 1.346
2000
1900
1800
1700
1600
1500

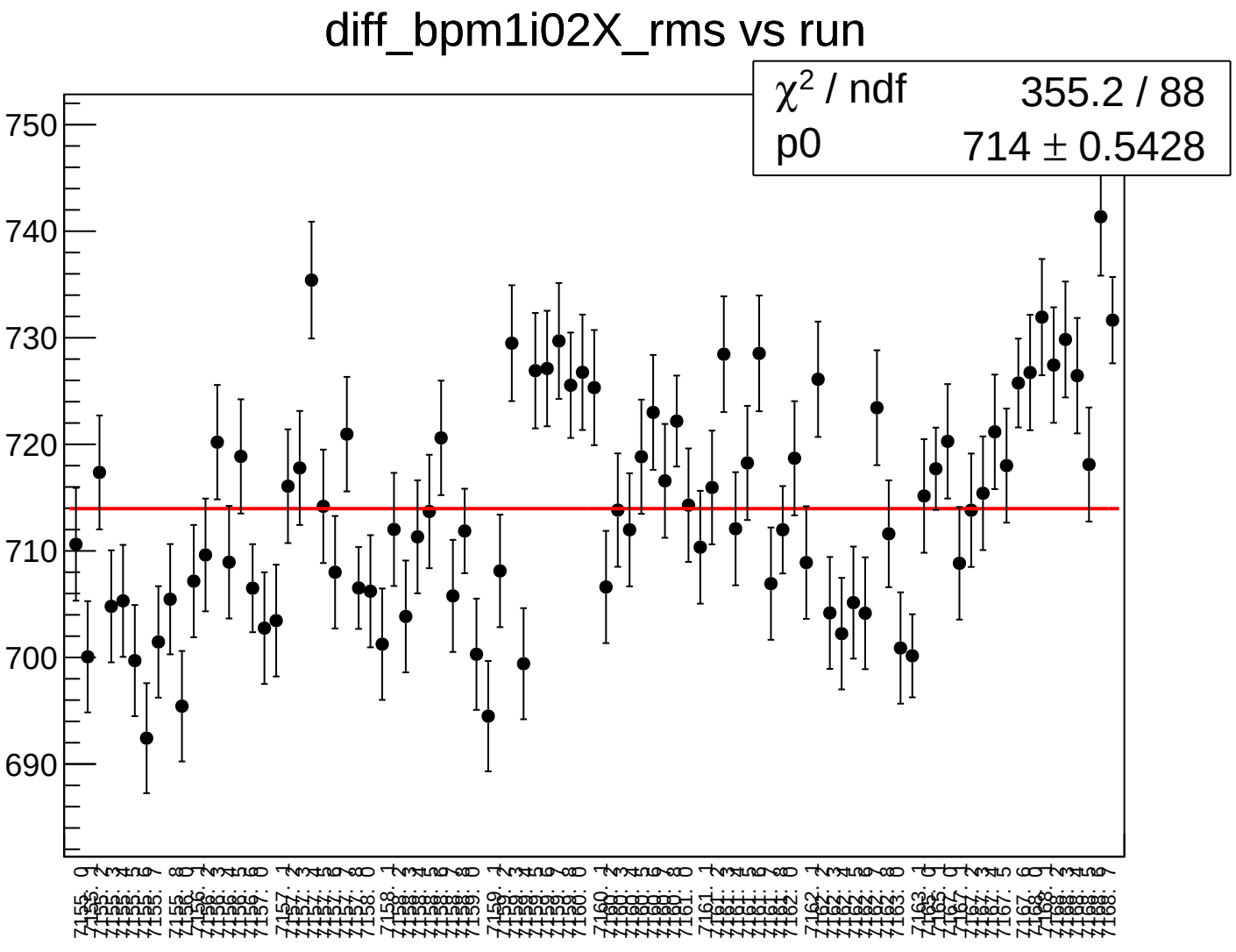

diff_bpm0i07Y_mean vs run
χ² / ndf 75.46 / 88
p0 8.097 ± 1.851
pull
Entries 89
Mean −616.1
Std Dev 0

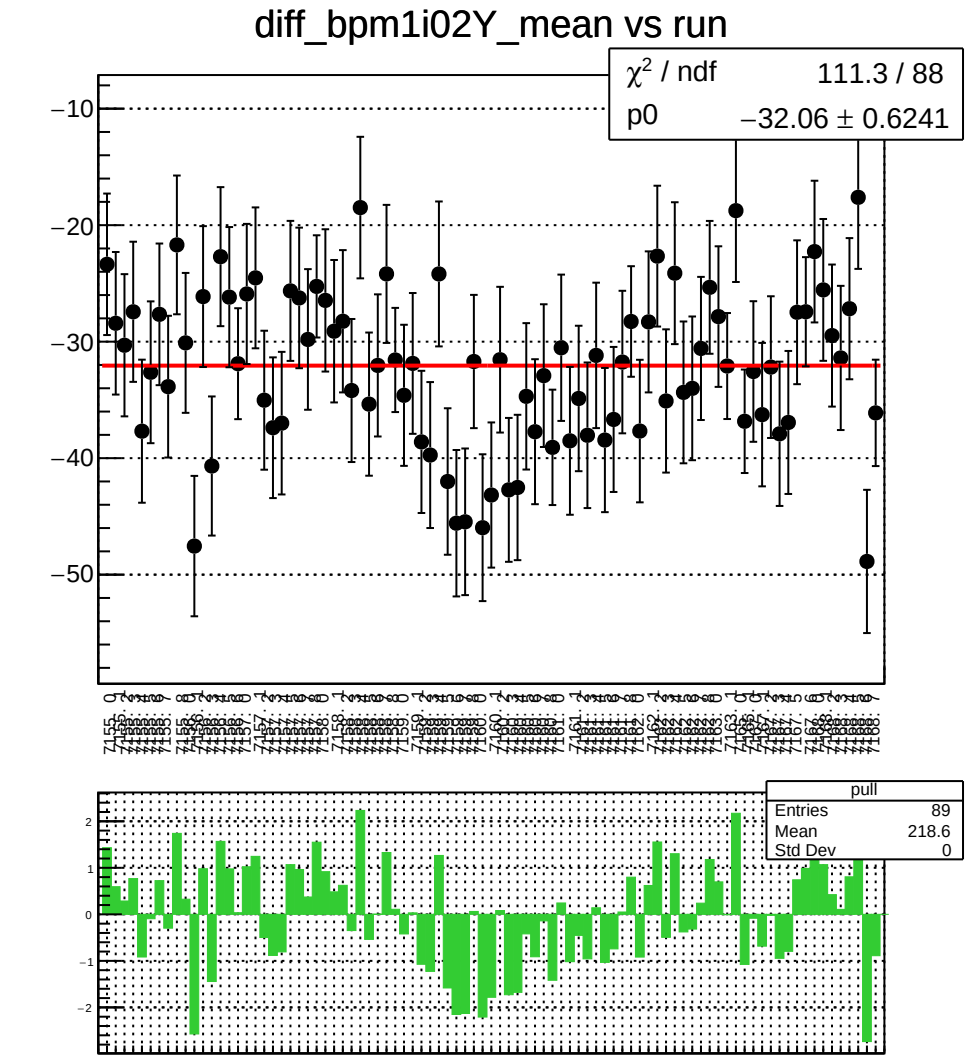

pull1D
Entries 89
Mean 0.00657
Std Dev 0.9208

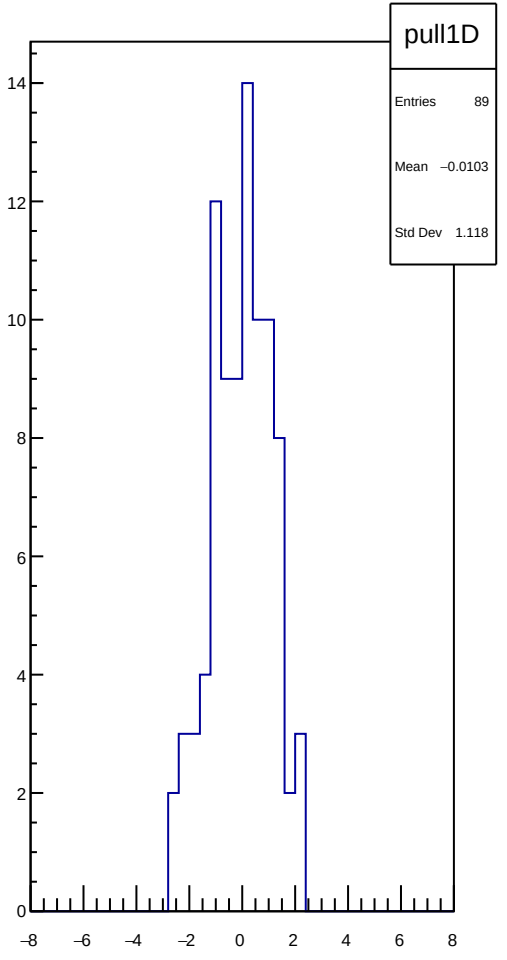

diff_bpm0i07Y_rms vs run
χ² / ndf 1.068e+04 / 88
p0 1717 ± 1.309
2200
2100
2000
1900
1800
1700
1600
1500

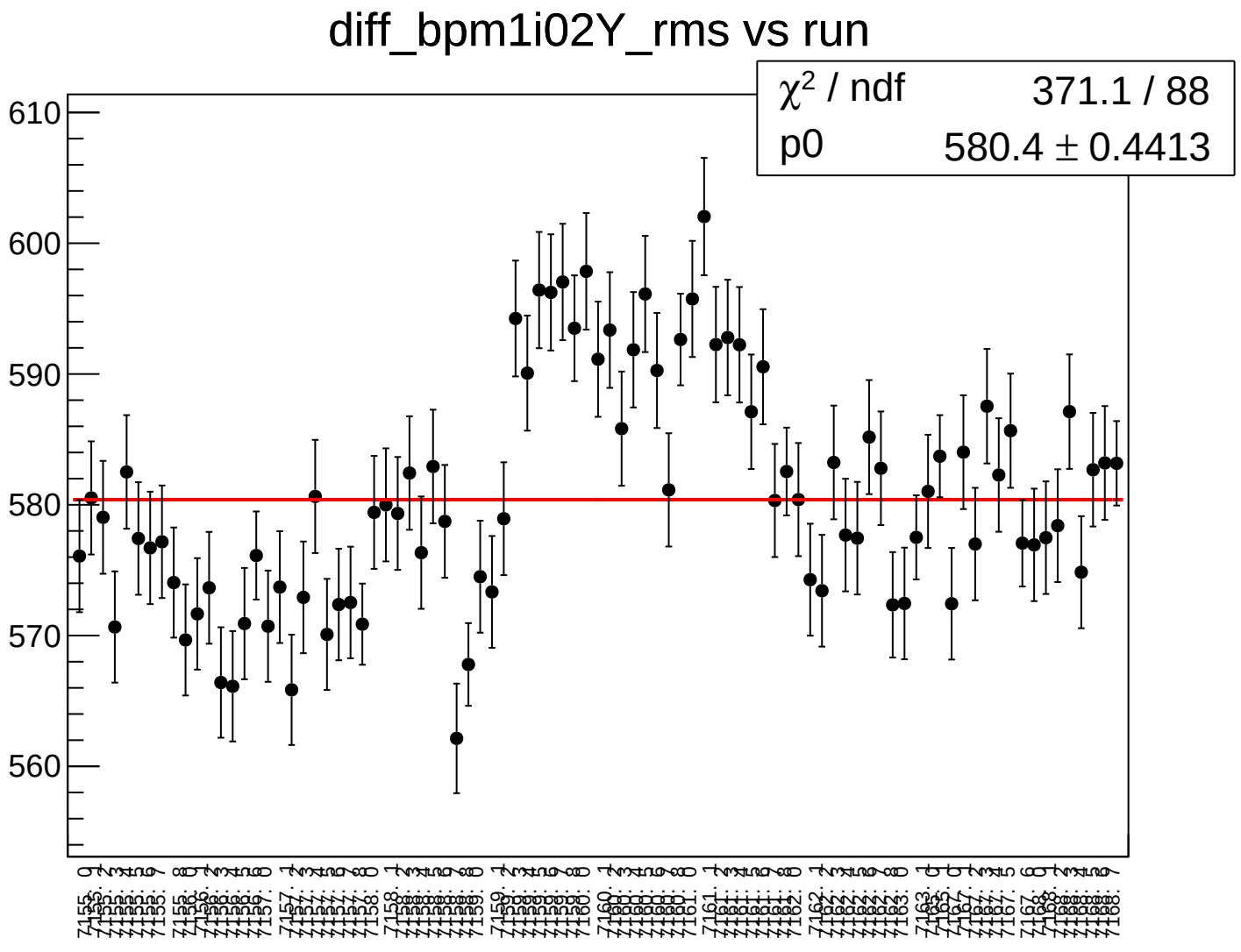

diff_bpm1i02X_mean vs run
χ² / ndf 103.2 / 88
p0 −13.79 ± 0.7677
pull
Entries 89
Mean −3107
Std Dev 0

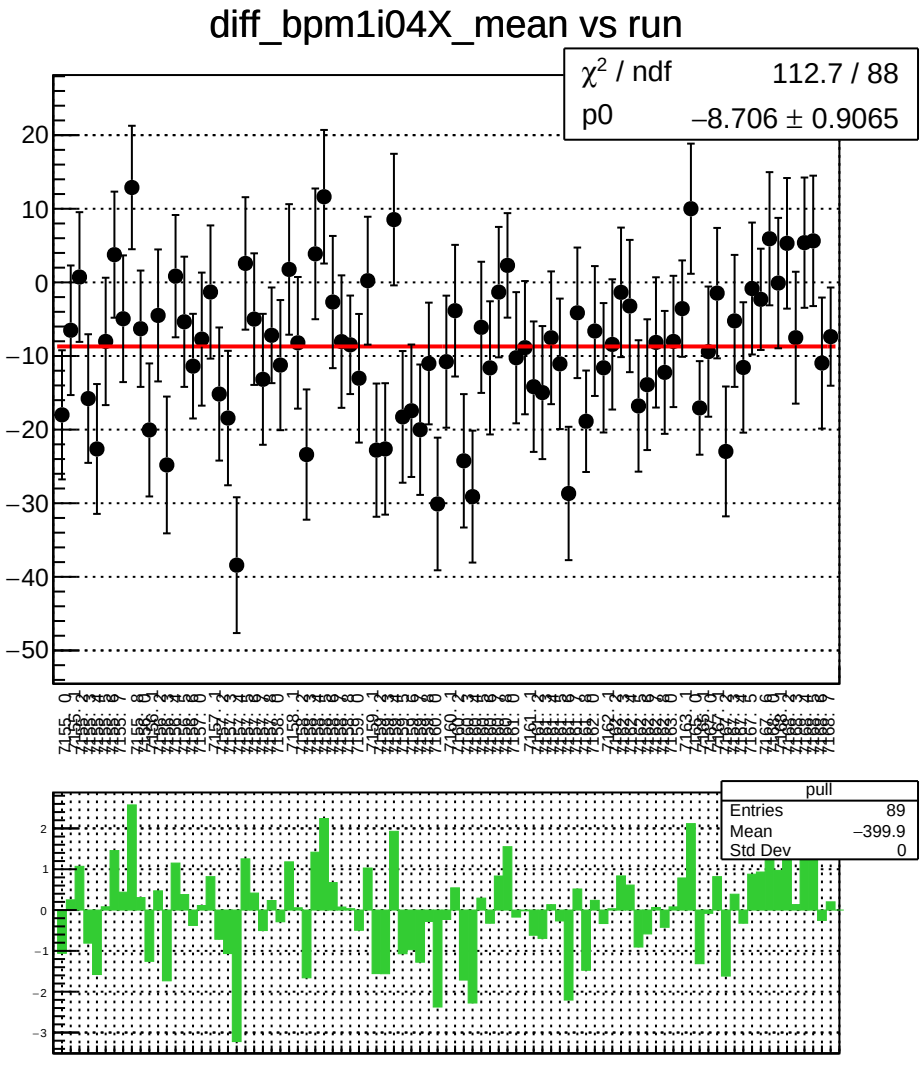

pull1D
Entries 89
Mean 0.002224
Std Dev 1.077

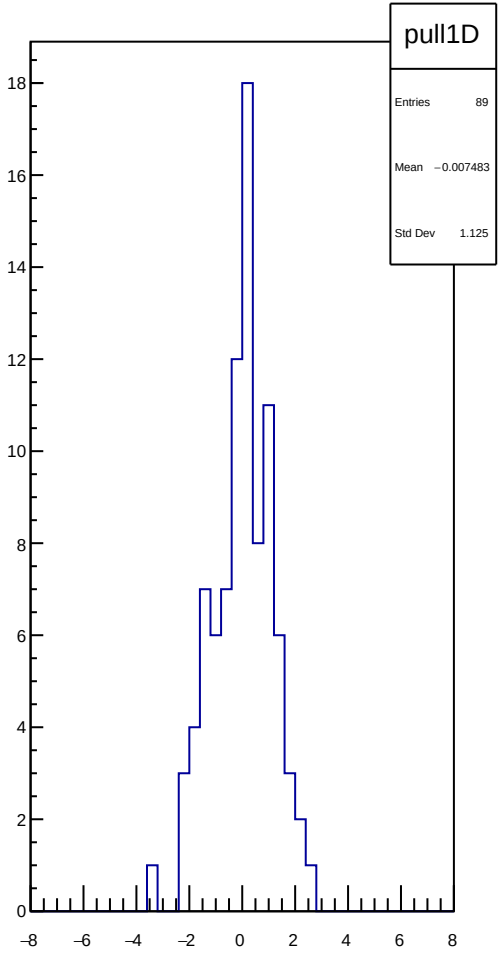

diff_bpm1i02X_rms vs run
χ² / ndf 355.2 / 88
p0 714 ± 0.5428
750
740
730
720
710
700
690

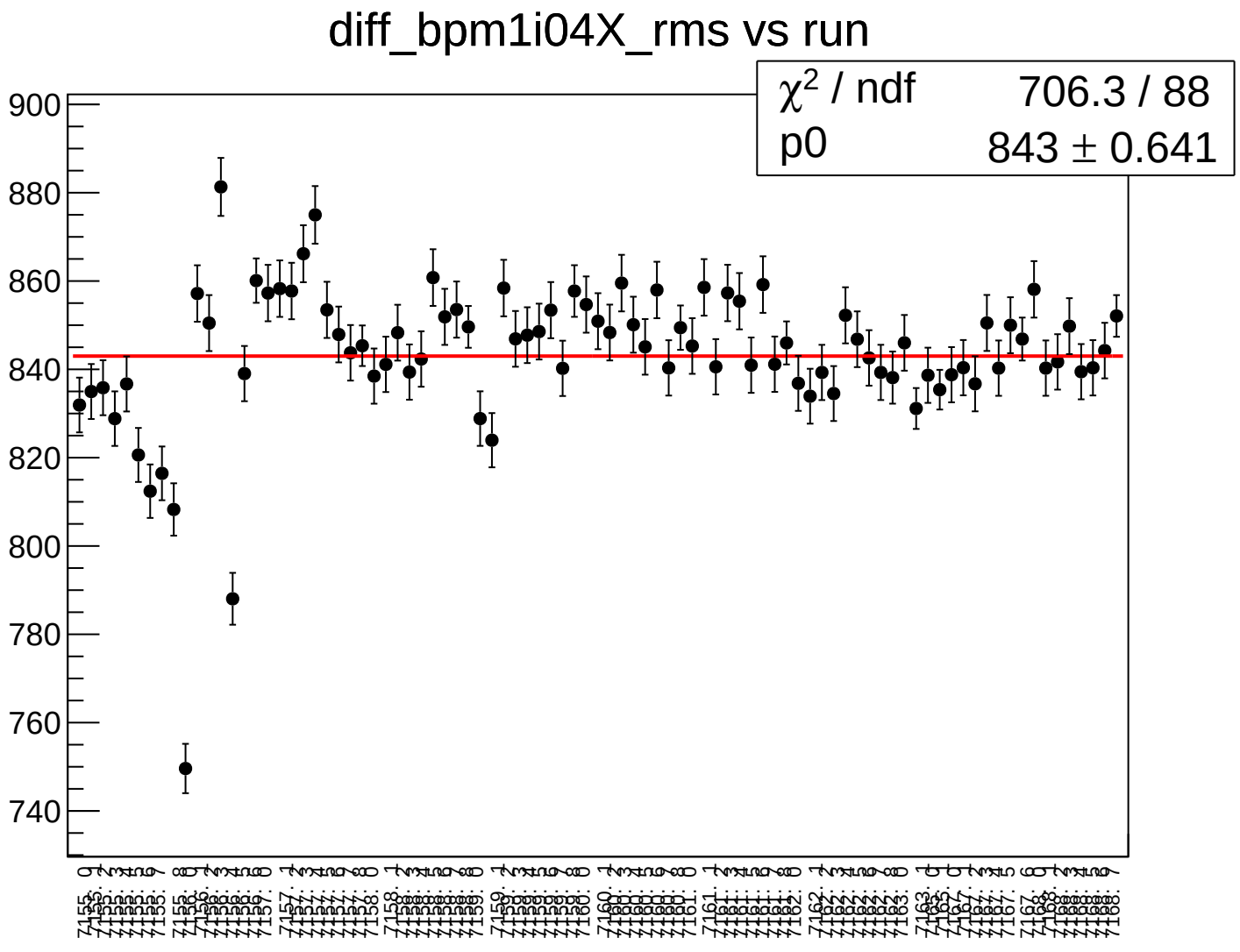

diff_bpm1i02Y_mean vs run
χ² / ndf 111.3 / 88
p0 −32.06 ± 0.6241
−10
−20
−30
−40
−50
pull
Entries 89
Mean 218.6
Std Dev 0
2
1
0
−1
−2

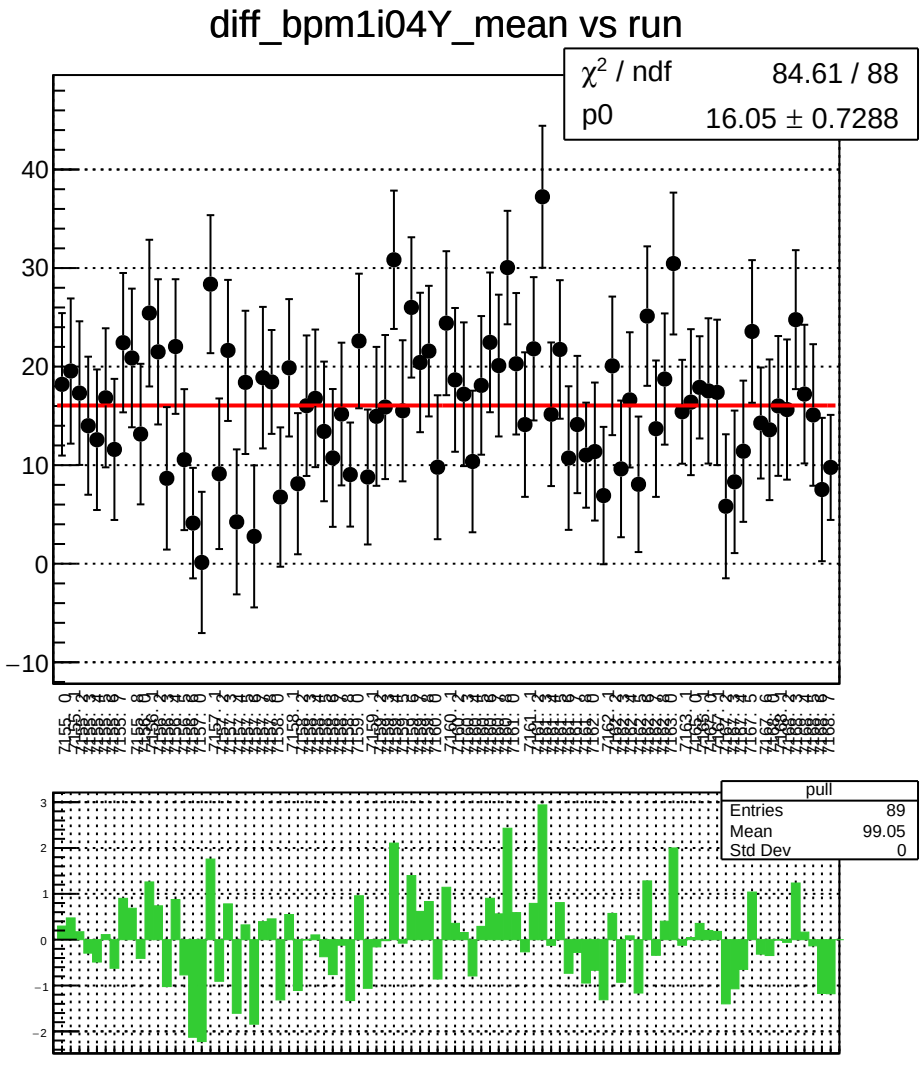

pull1D
Entries 89
Mean −0.0103
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

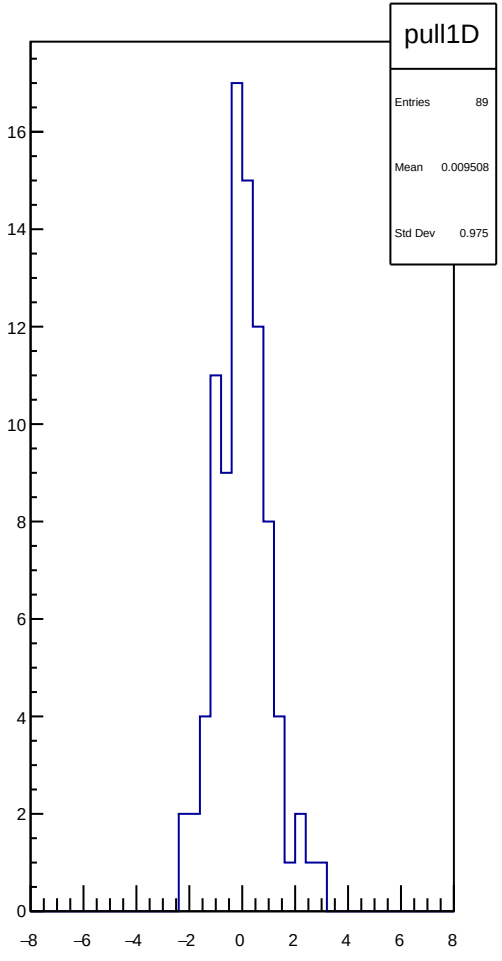

diff_bpm1i02Y_rms vs run
χ² / ndf 371.1 / 88
p0 580.4 ± 0.4413
610
600
590
580
570
560

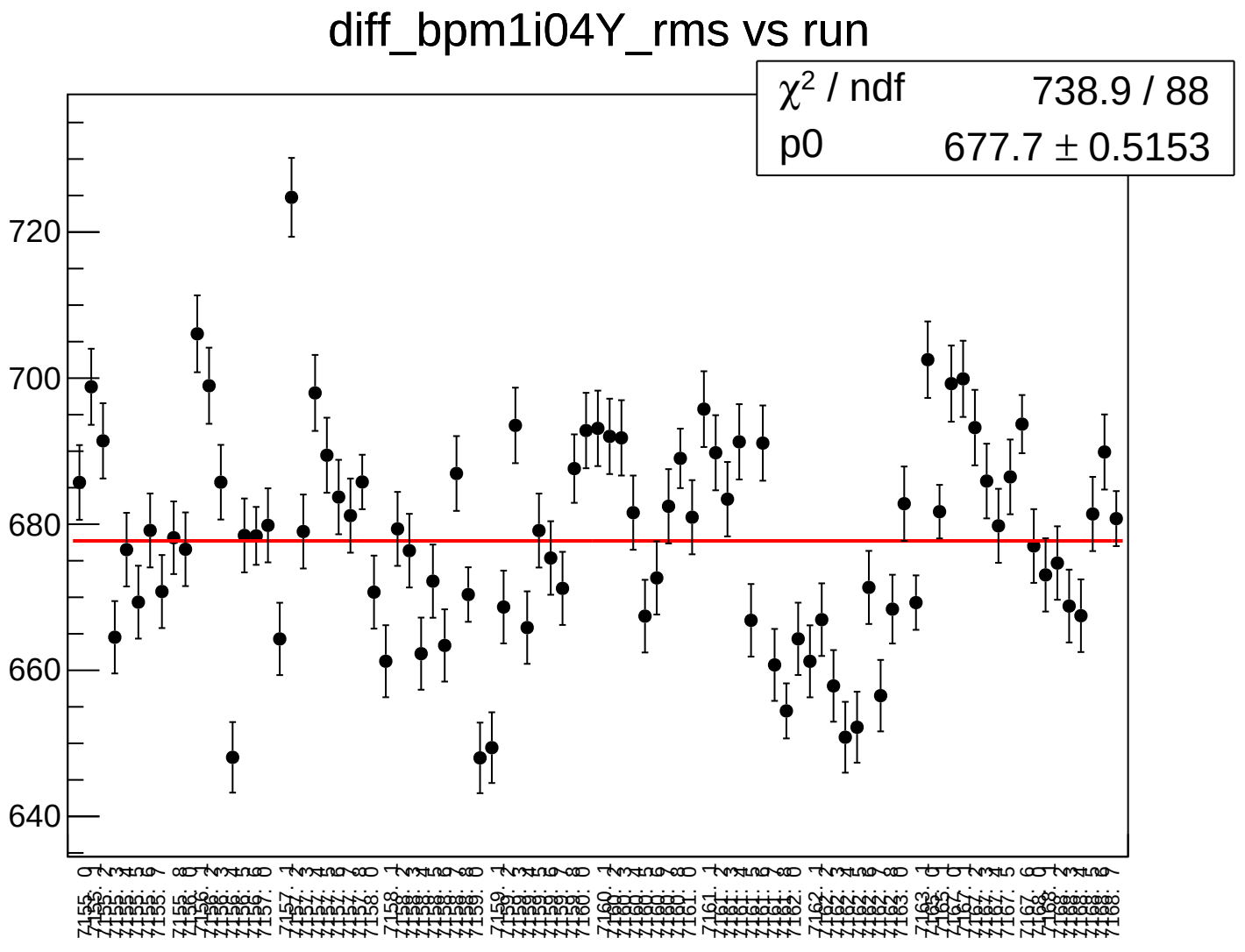

diff_bpm1i04X_mean vs run
χ² / ndf 112.7 / 88
p0 −8.706 ± 0.9065
pull
Entries 89
Mean −399.9
Std Dev 0

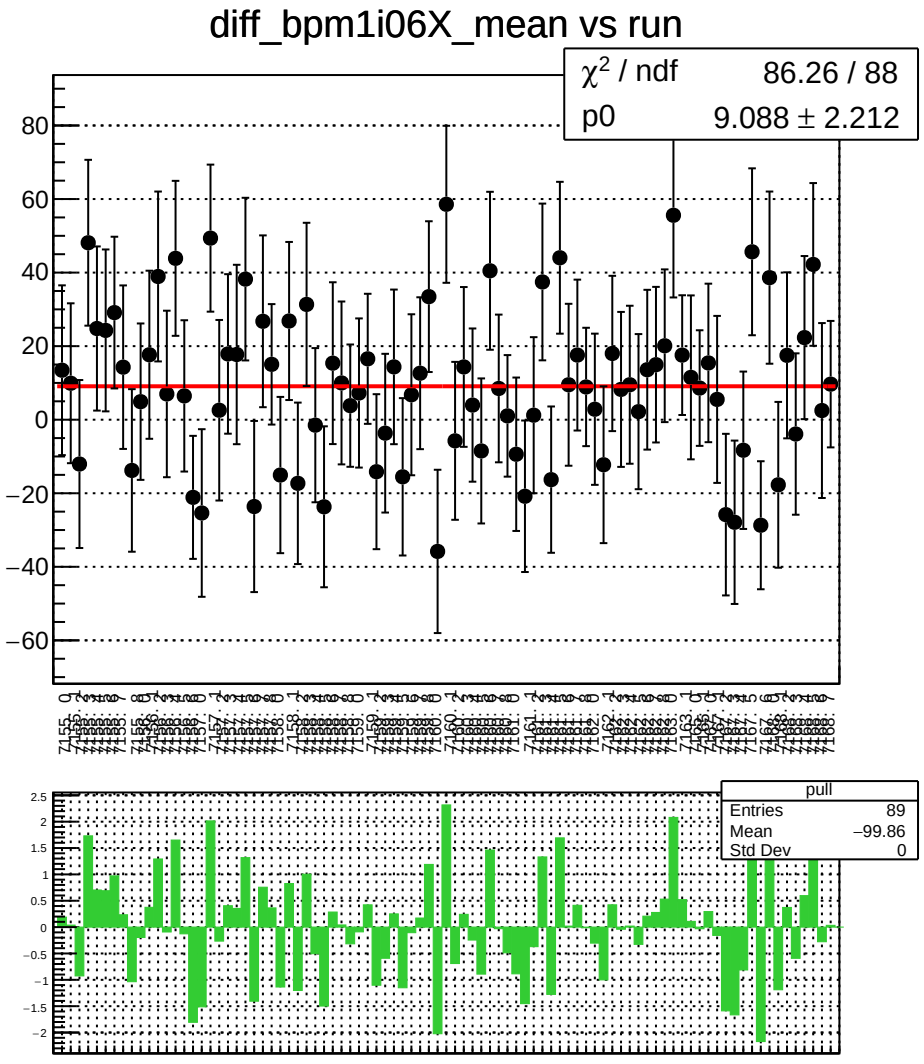

pull1D
Entries 89
Mean −0.007483
Std Dev 1.125

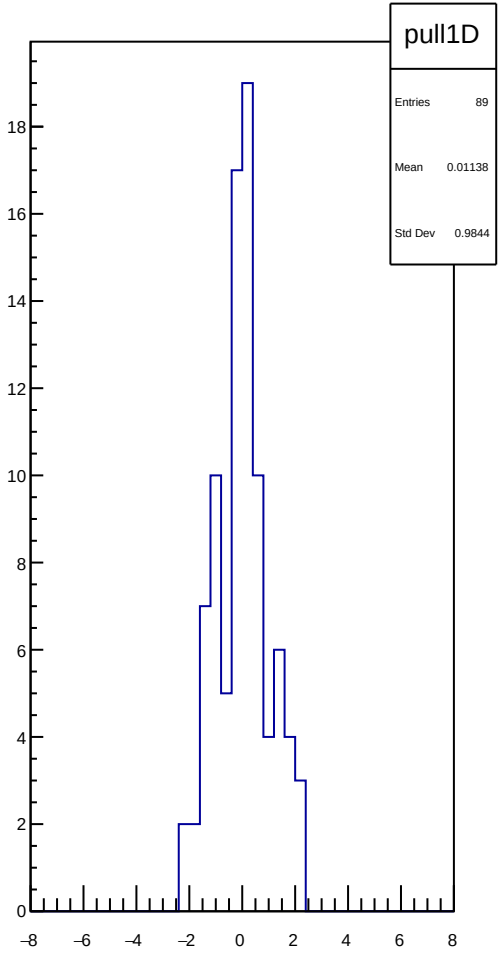

diff_bpm1i04X_rms vs run
χ² / ndf 706.3 / 88
p0 843 ± 0.641
900
880
860
840
820
800
780
760
740

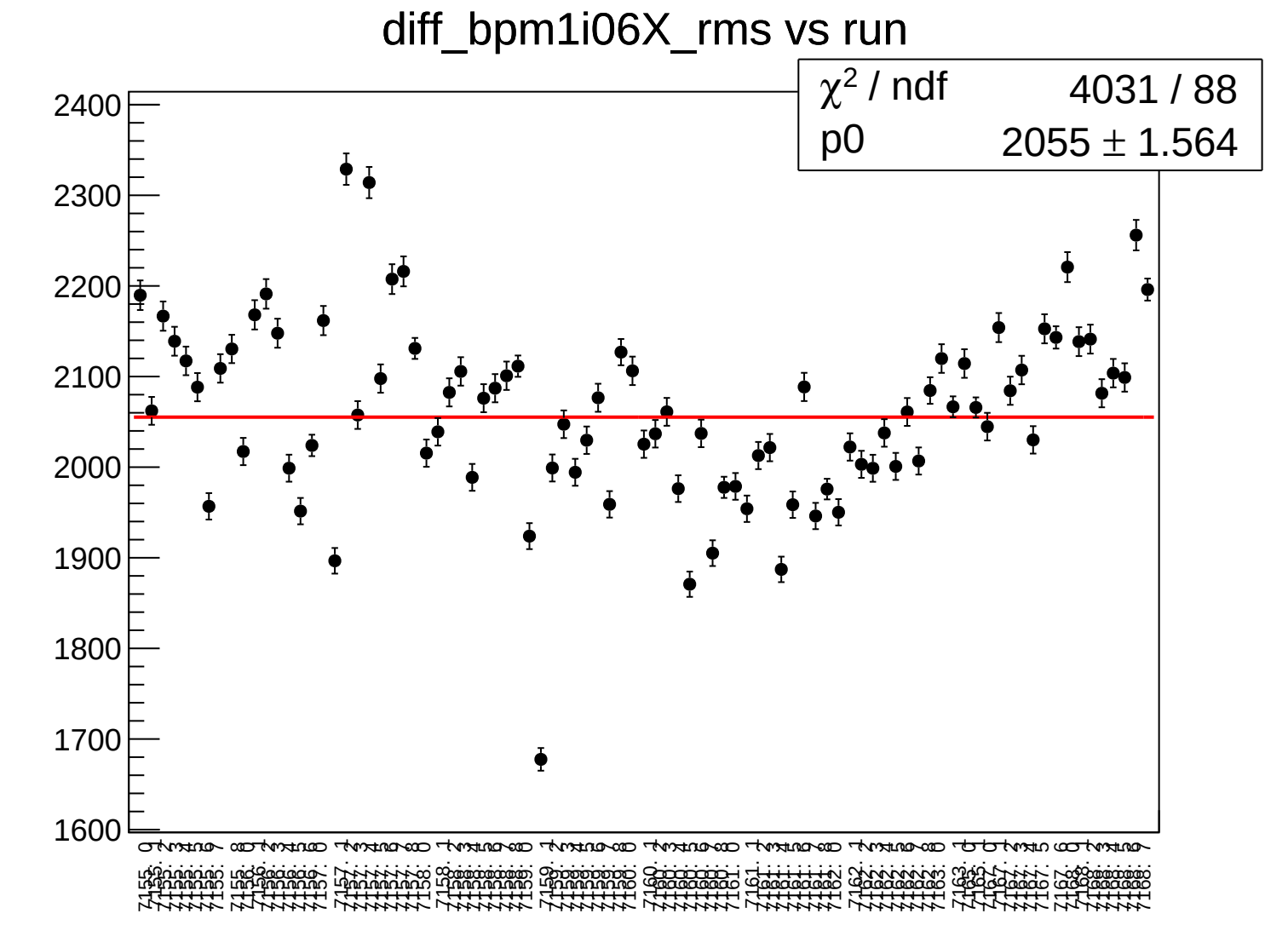

diff_bpm1i04Y_mean vs run
χ^2 / ndf 84.61 / 88
p0 16.05 ± 0.7288
pull
Entries 89
Mean 99.05
Std Dev 0

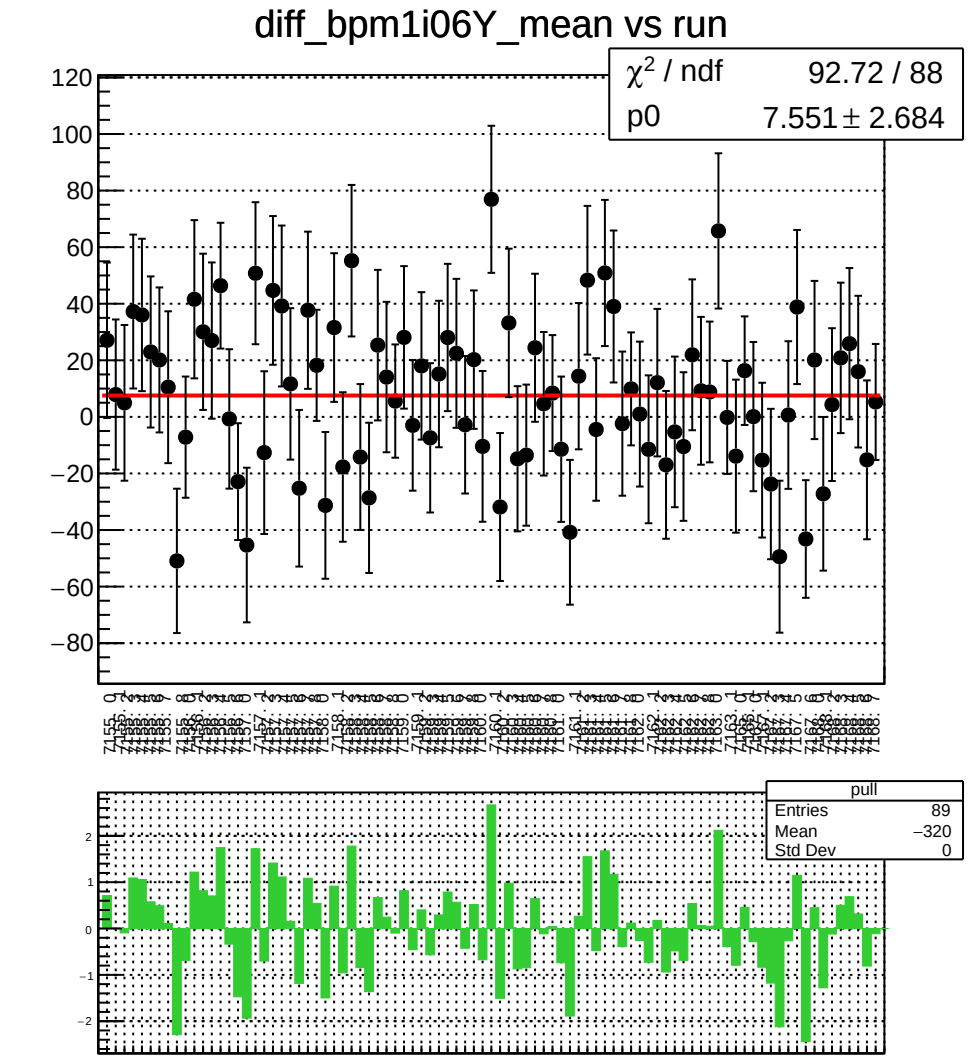

pull1D
Entries 89
Mean 0.009508
Std Dev 0.975

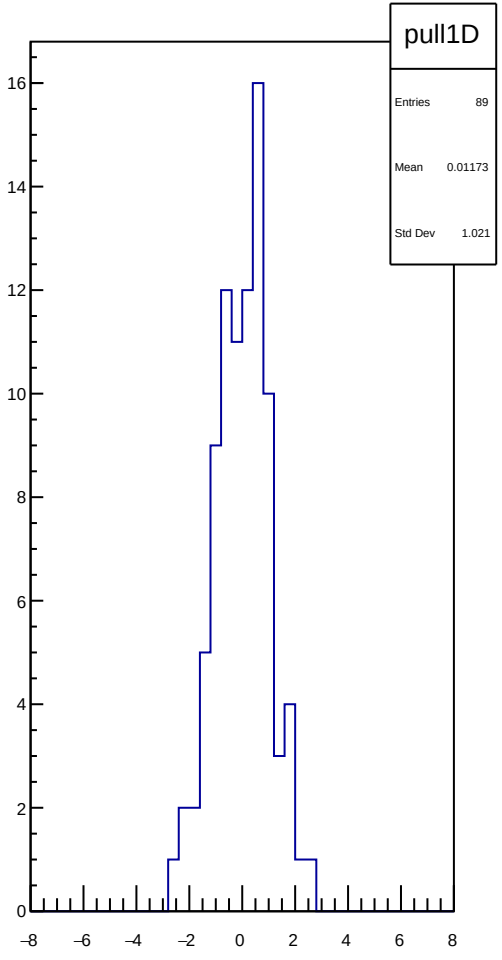

diff_bpm1i04Y_rms vs run
χ² / ndf 738.9 / 88
p0 677.7 ± 0.5153
720
700
680
660
640

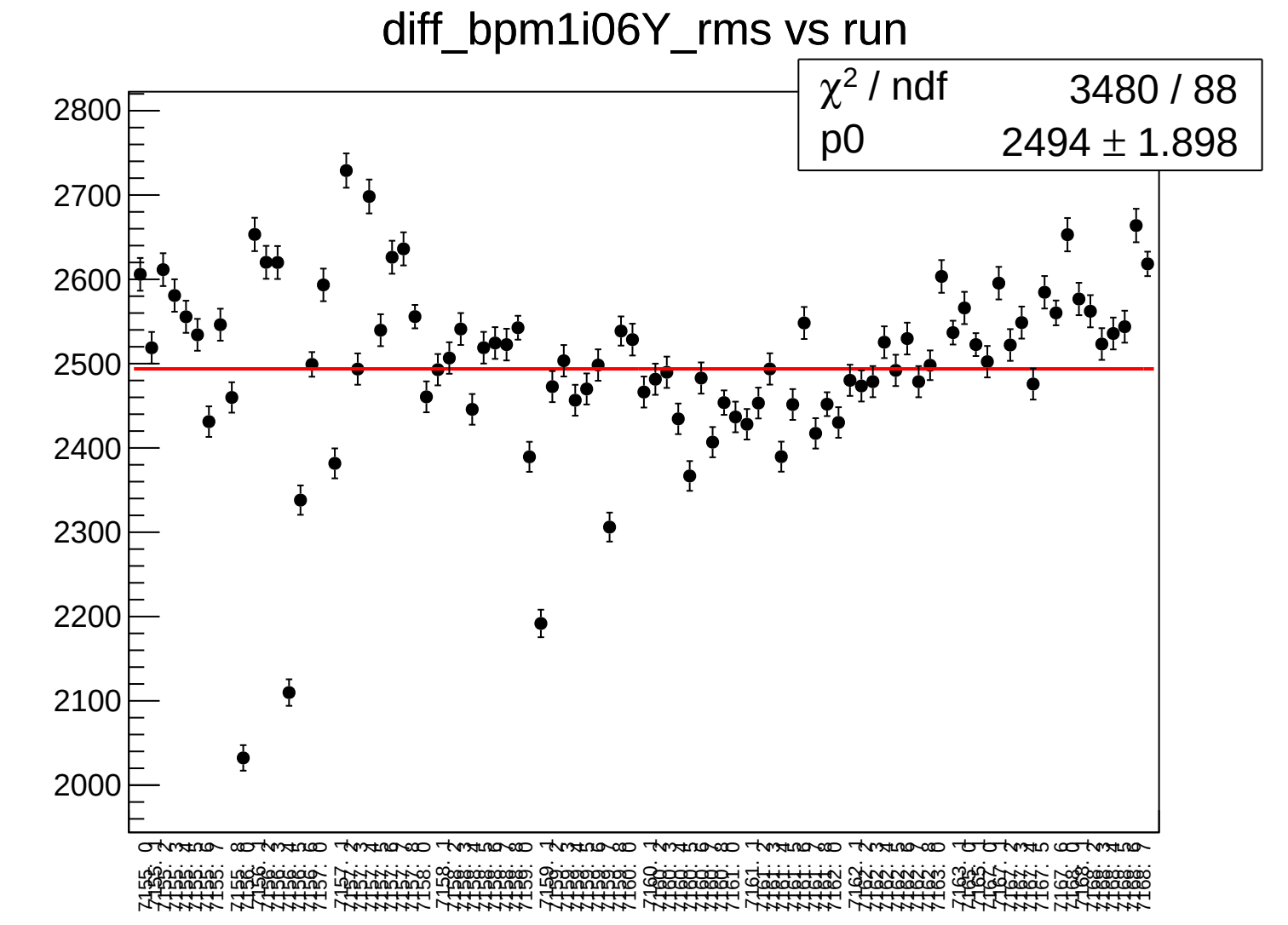

diff_bpm1i06X_mean vs run
χ^2 / ndf 86.26 / 88
p0 9.088 ± 2.212
pull
Entries 89
Mean −99.86
Std Dev 0

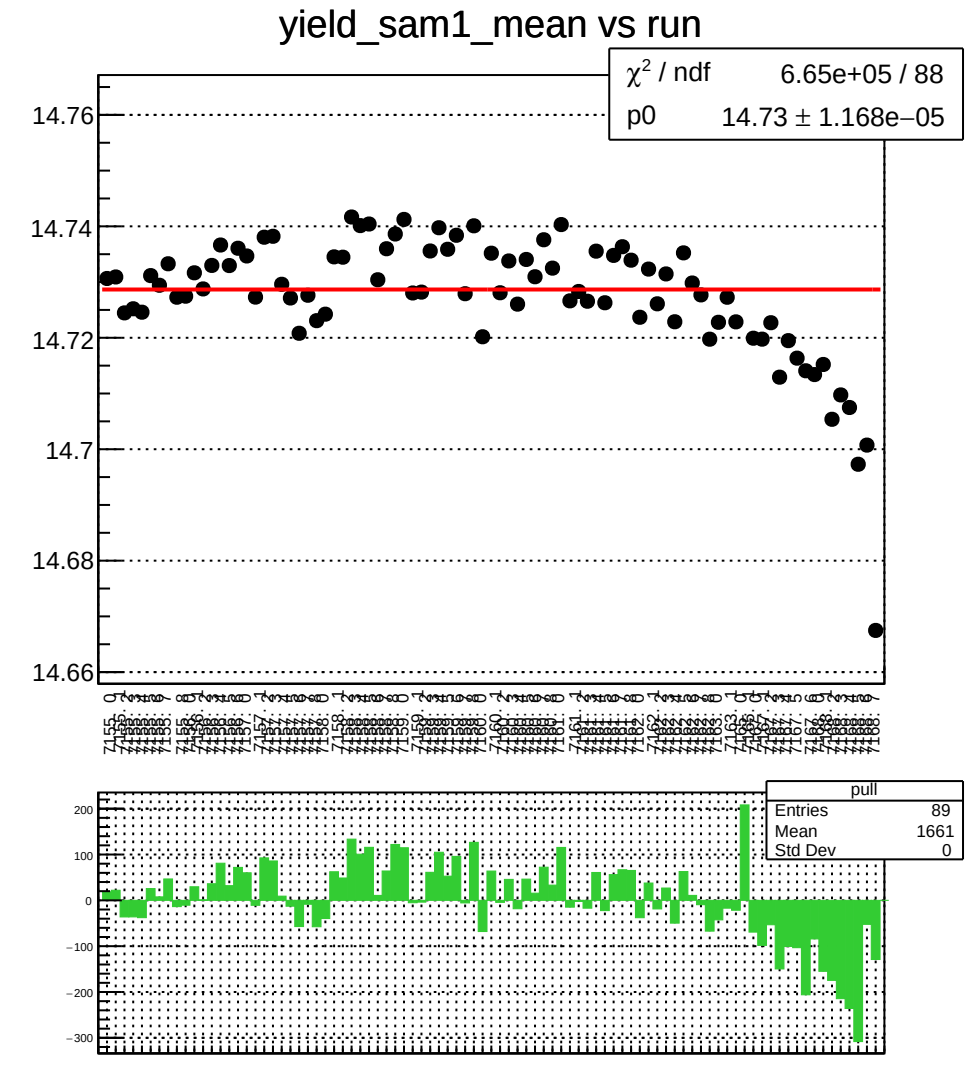

pull1D
Entries 89
Mean 0.01138
Std Dev 0.9844

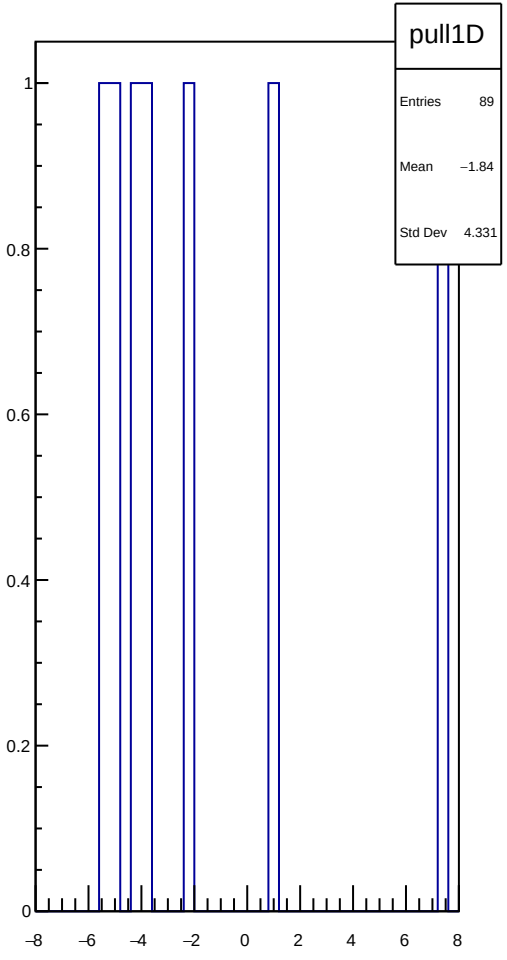

diff_bpm1i06X_rms vs run
χ² / ndf 4031 / 88
p0 2055 ± 1.564
2400
2300
2200
2100
2000
1900
1800
1700
1600

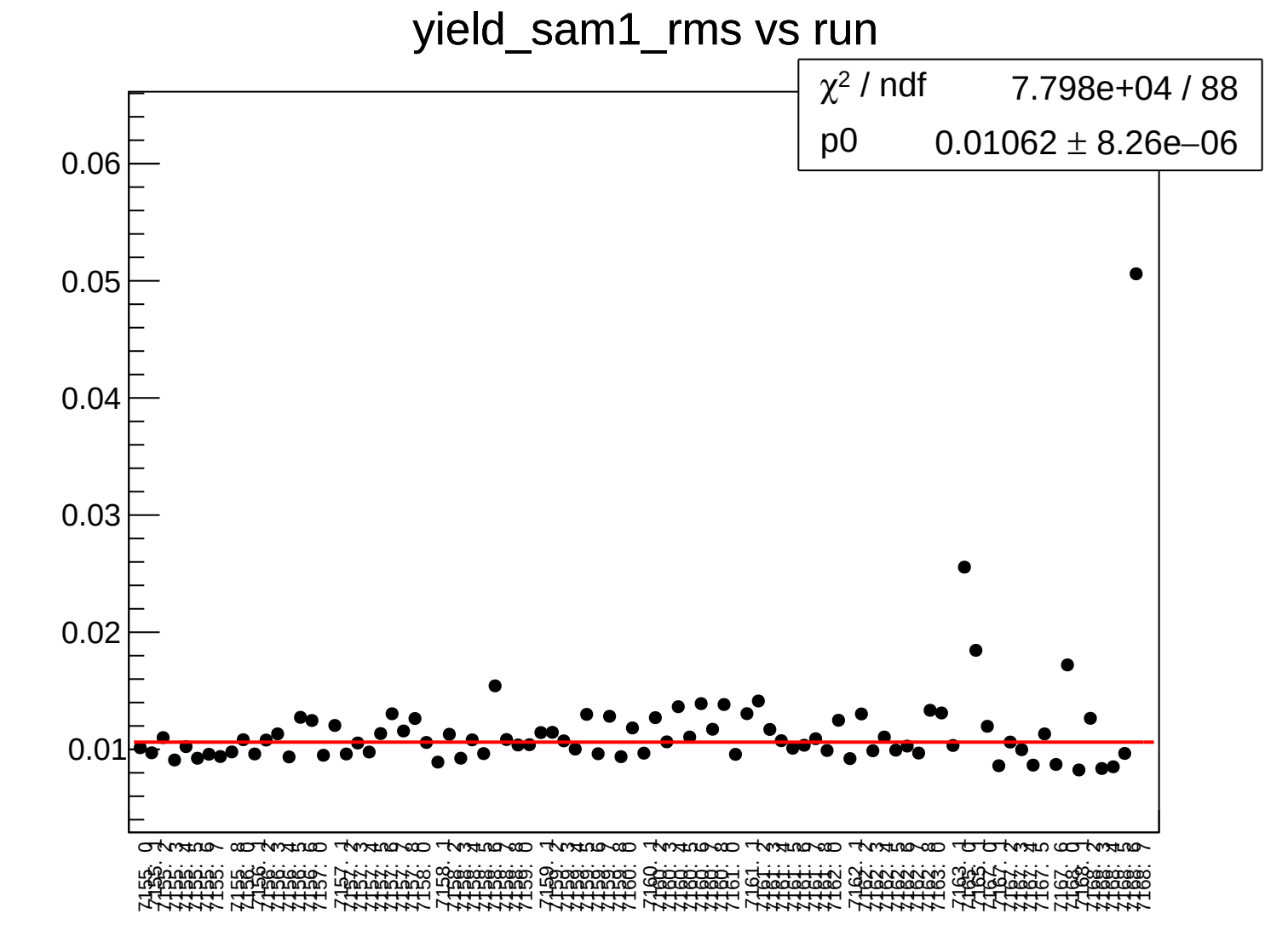

diff_bpm1i06Y_mean vs run
χ² / ndf 92.72 / 88
p0 7.551 ± 2.684
pull
Entries 89
Mean −320
Std Dev 0

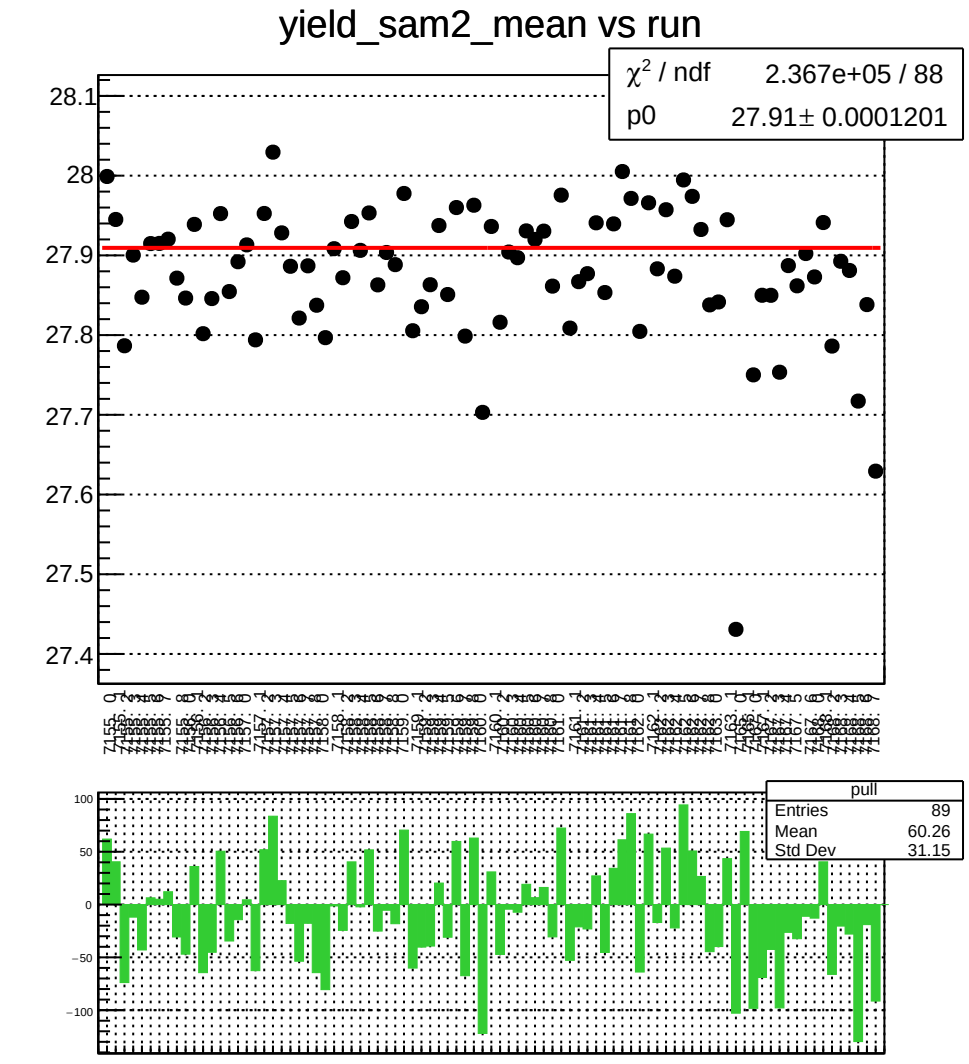

pull1D
Entries 89
Mean 0.01173
Std Dev 1.021

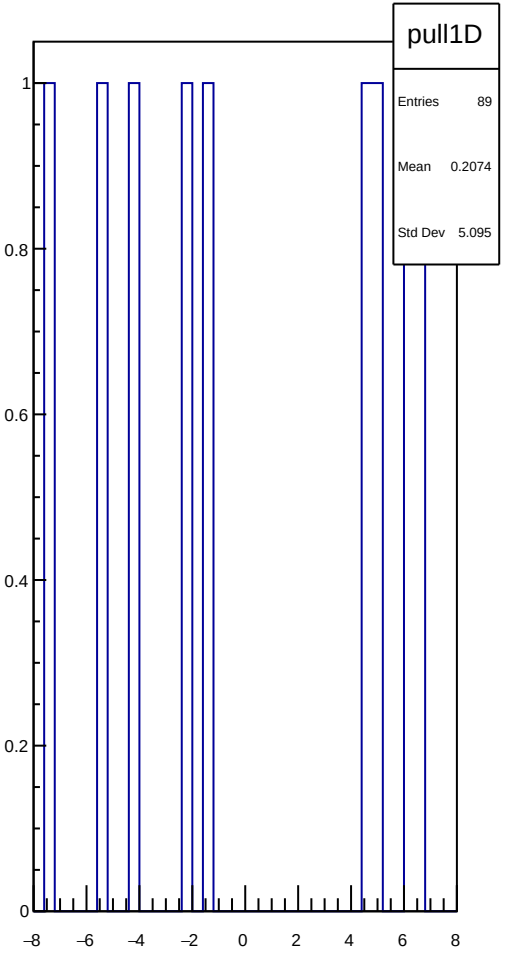

diff_bpm1i06Y_rms vs run
χ² / ndf 3480 / 88
p0 2494 ± 1.898
2800
2700
2600
2500
2400
2300
2200
2100
2000

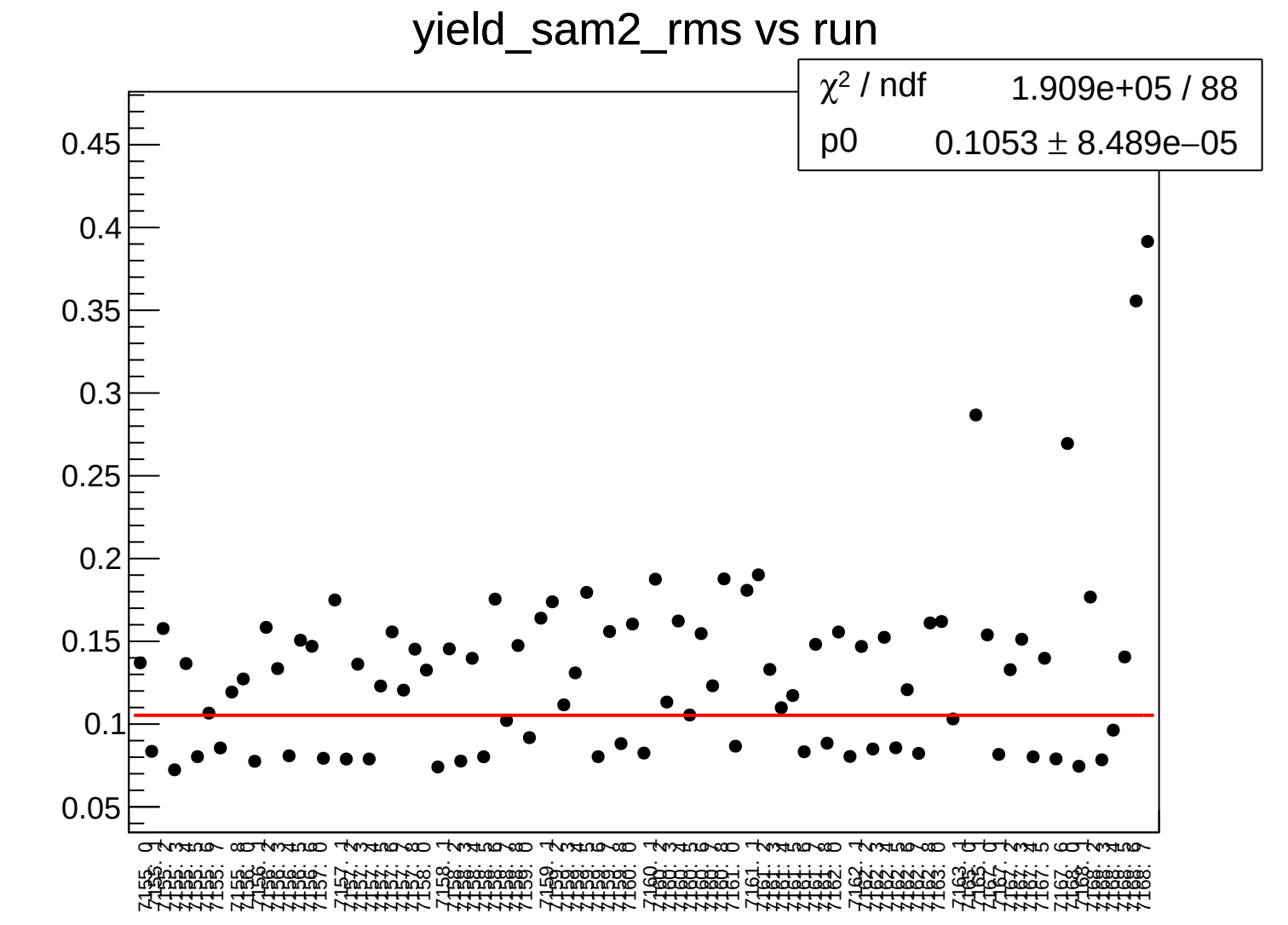

yield_sam1_mean vs run
χ² / ndf 6.65e+05 / 88
p0 14.73 ± 1.168e−05
14.76
14.74
14.72
14.7
14.68
14.66
pull
Entries 89
Mean 1661
Std Dev 0
200
100
0
−100
−200
−300

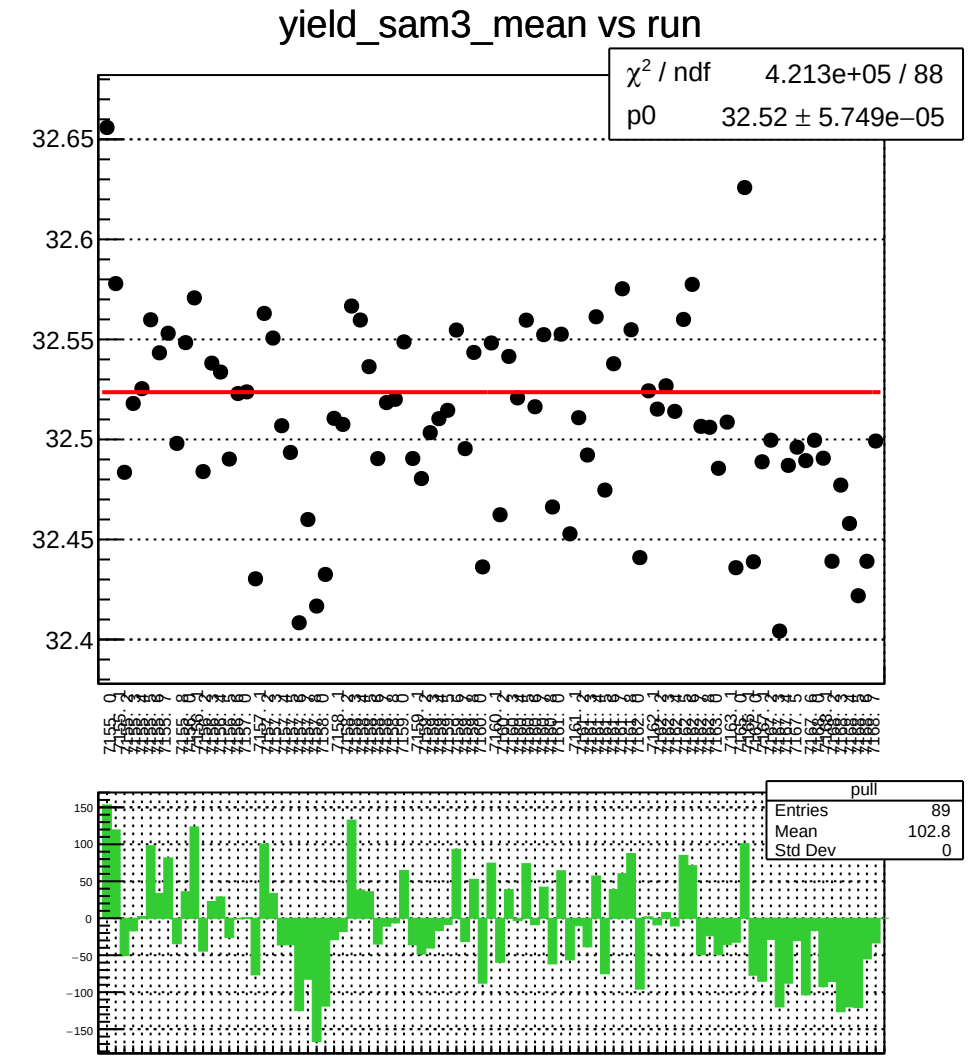

pull1D
Entries 89
Mean −1.84
Std Dev 4.331
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

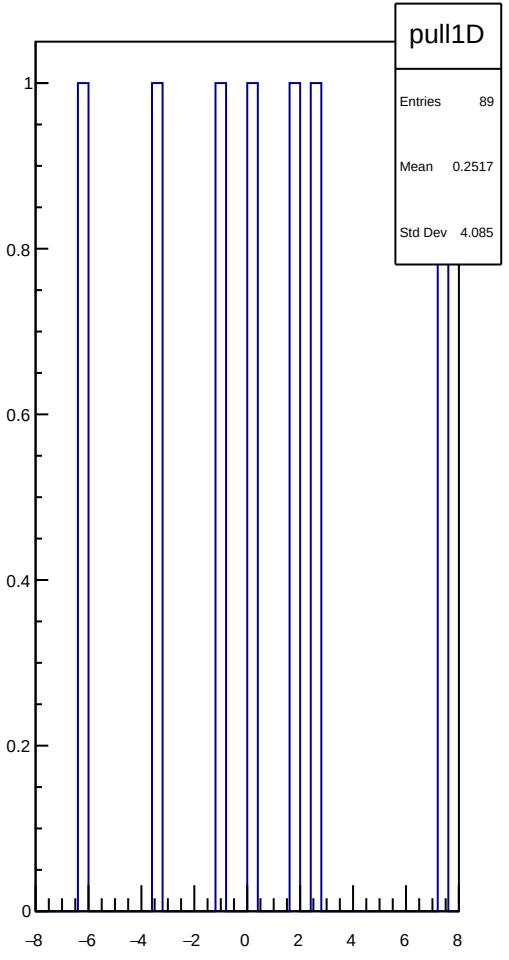

yield_sam1_rms vs run
χ² / ndf 7.798e+04 / 88
p0 0.01062 ± 8.26e−06
0.06
0.05
0.04
0.03
0.02
0.01

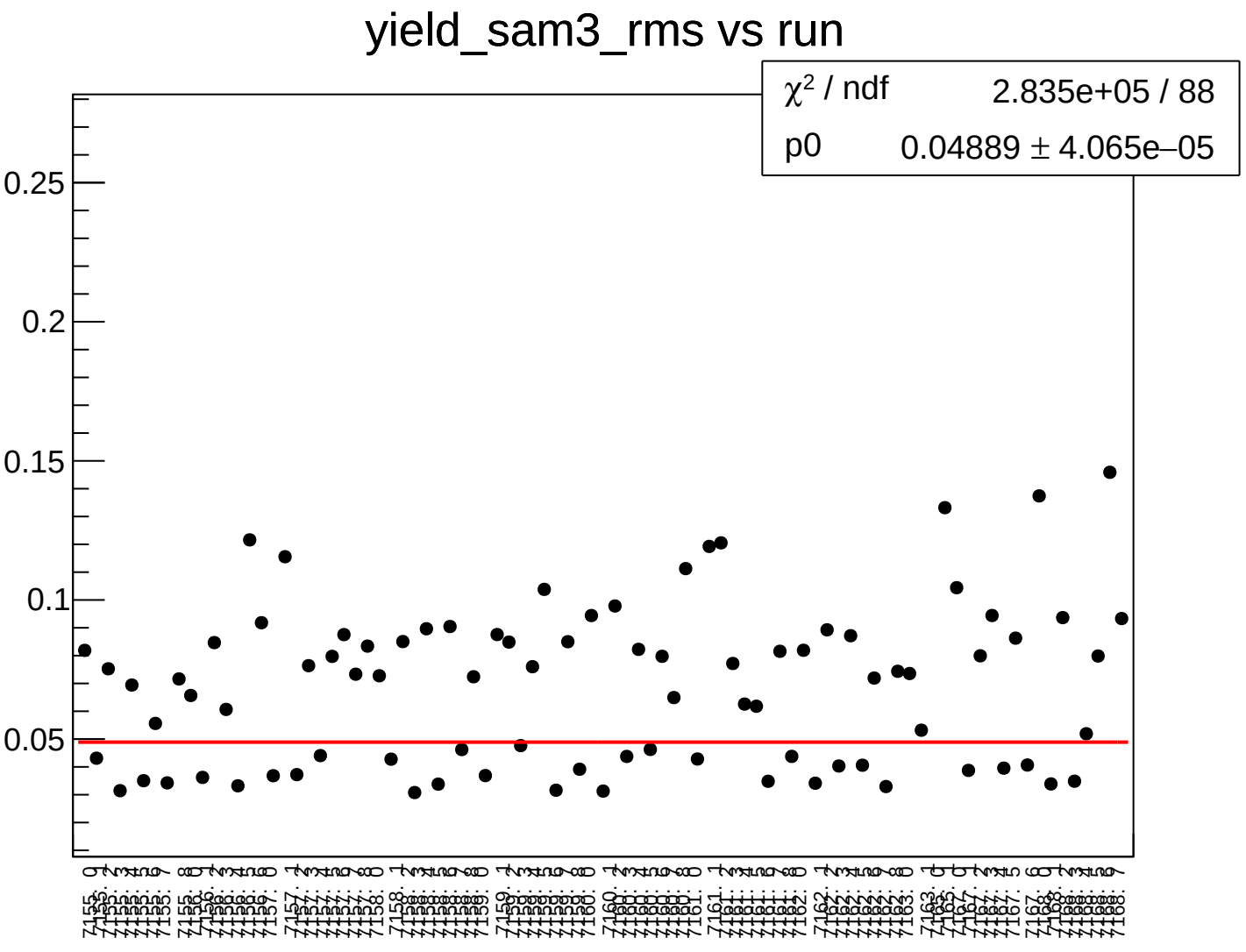

yield_sam2_mean vs run
χ² / ndf 2.367e+05 / 88
p0 27.91± 0.0001201
28.1
28
27.9
27.8
27.7
27.6
27.5
27.4
pull
Entries 89
Mean 60.26
Std Dev 31.15
100
50
0
−50
−100

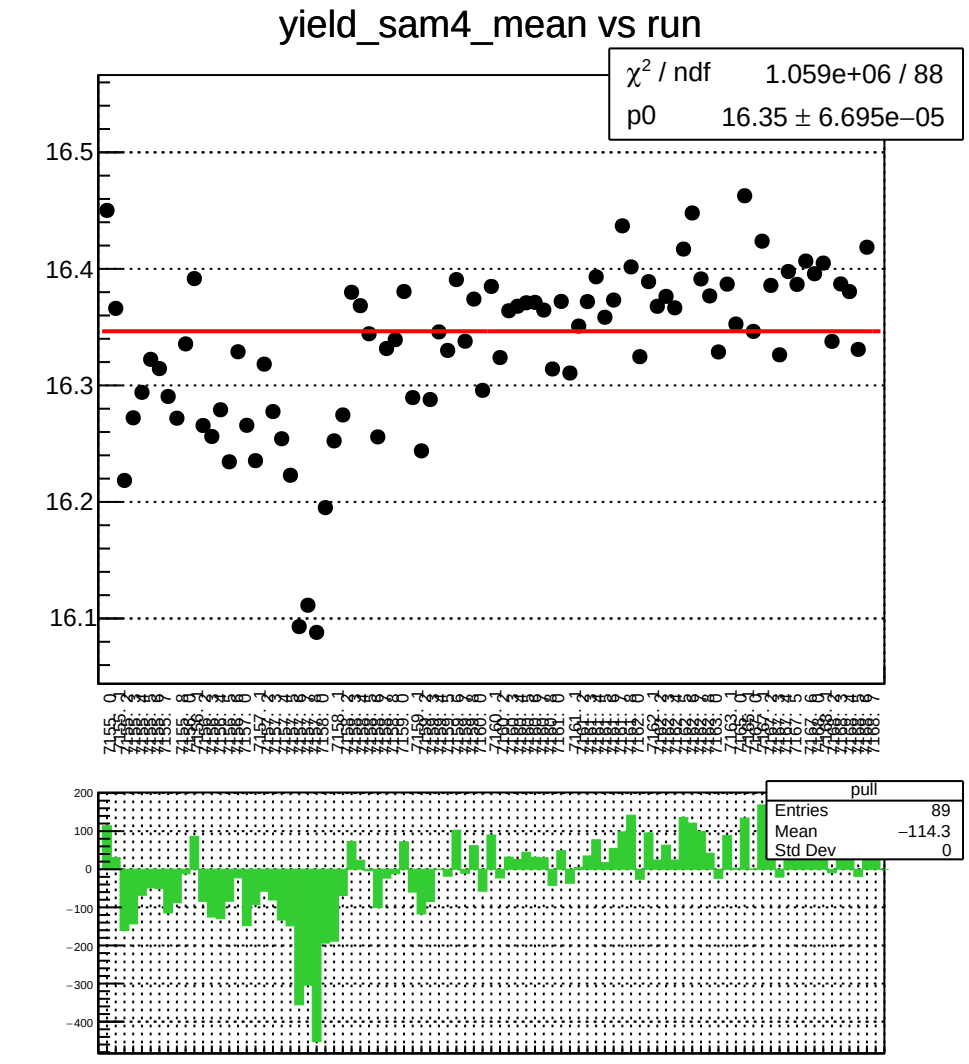

pull1D
Entries 89
Mean 0.2074
Std Dev 5.095
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

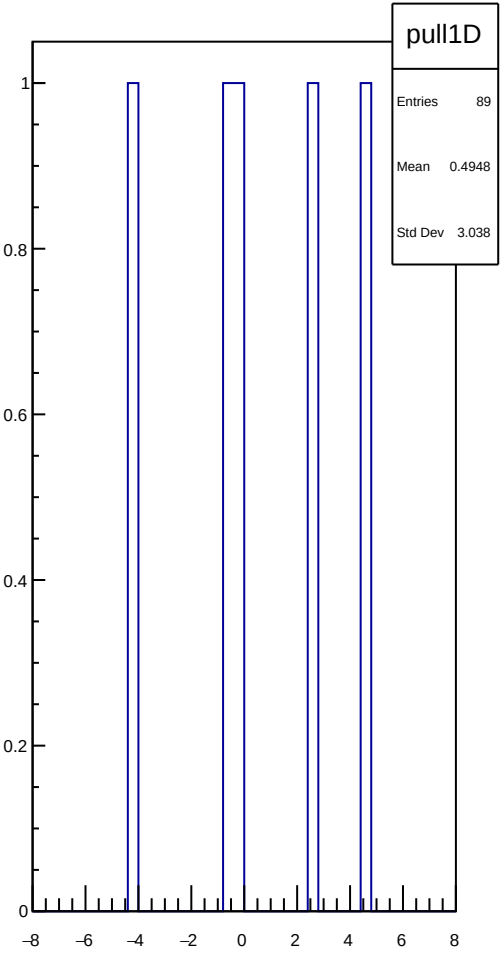

yield_sam2_rms vs run
χ² / ndf 1.909e+05 / 88
p0 0.1053 ± 8.489e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

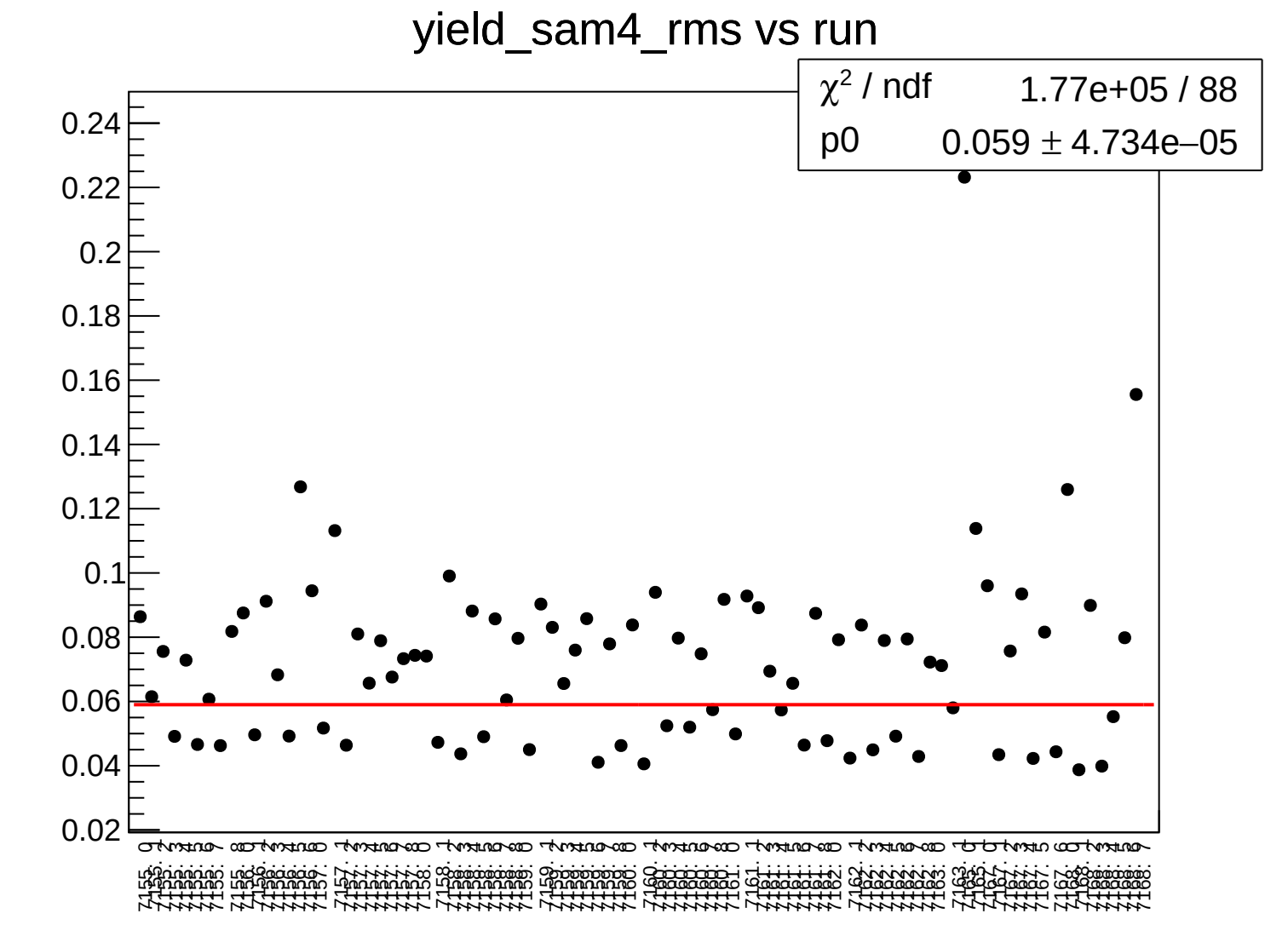

yield_sam3_mean vs run
χ² / ndf 4.213e+05 / 88
p0 32.52 ± 5.749e−05
32.65
32.6
32.55
32.5
32.45
32.4
pull
Entries 89
Mean 102.8
Std Dev 0
150
100
50
0
−50
−100
−150

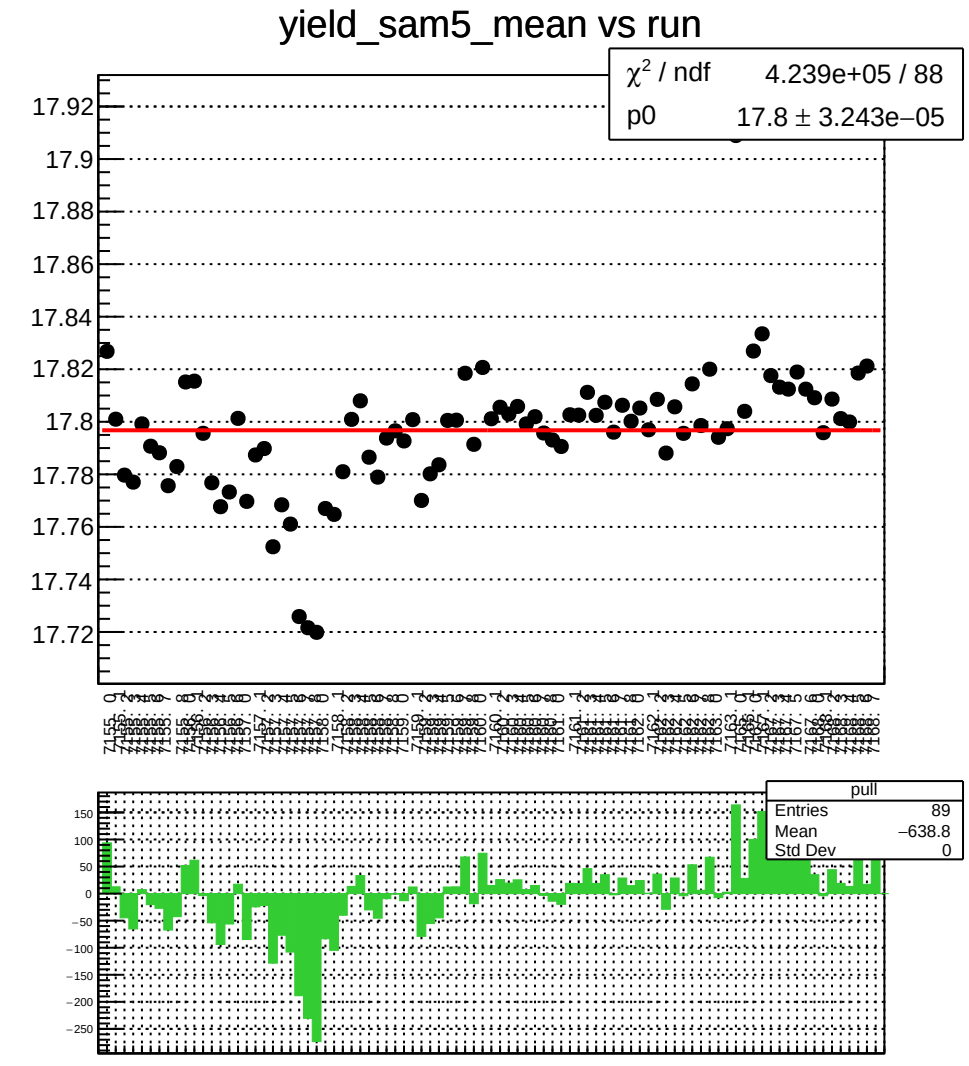

pull1D
Entries 89
Mean 0.2517
Std Dev 4.085
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

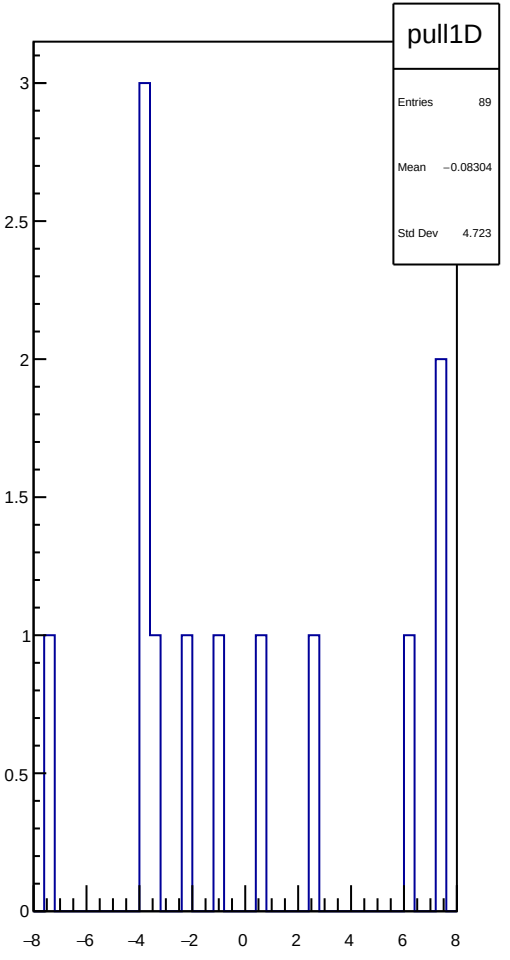

yield_sam3_rms vs run
χ² / ndf 2.835e+05 / 88
p0 0.04889 ± 4.065e−05
0.25
0.2
0.15
0.1
0.05

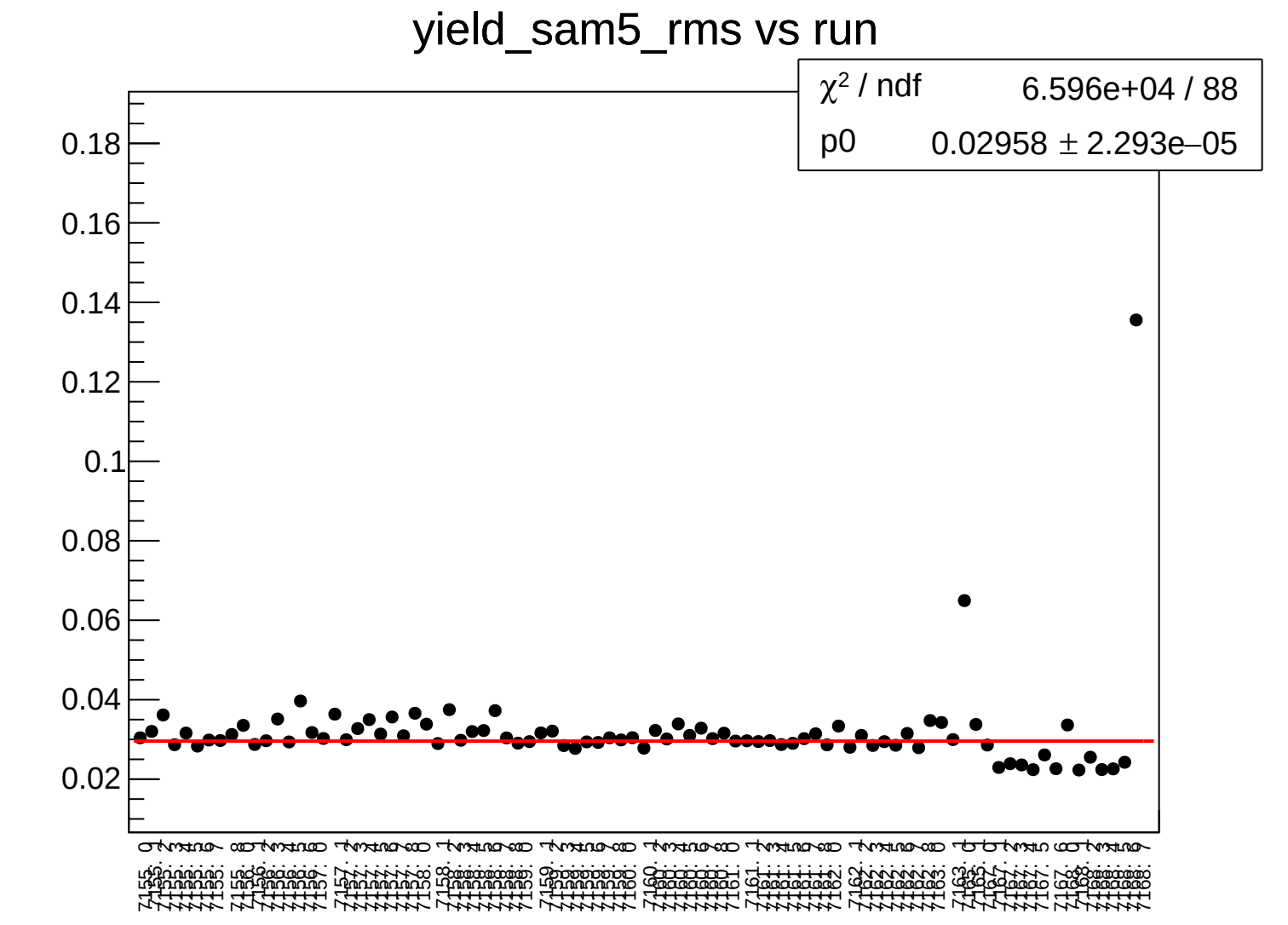

yield_sam4_mean vs run
χ² / ndf 1.059e+06 / 88
p0 16.35 ± 6.695e−05
16.5
16.4
16.3
16.2
16.1
pull
Entries 89
Mean −114.3
Std Dev 0
200
100
0
−100
−200
−300
−400

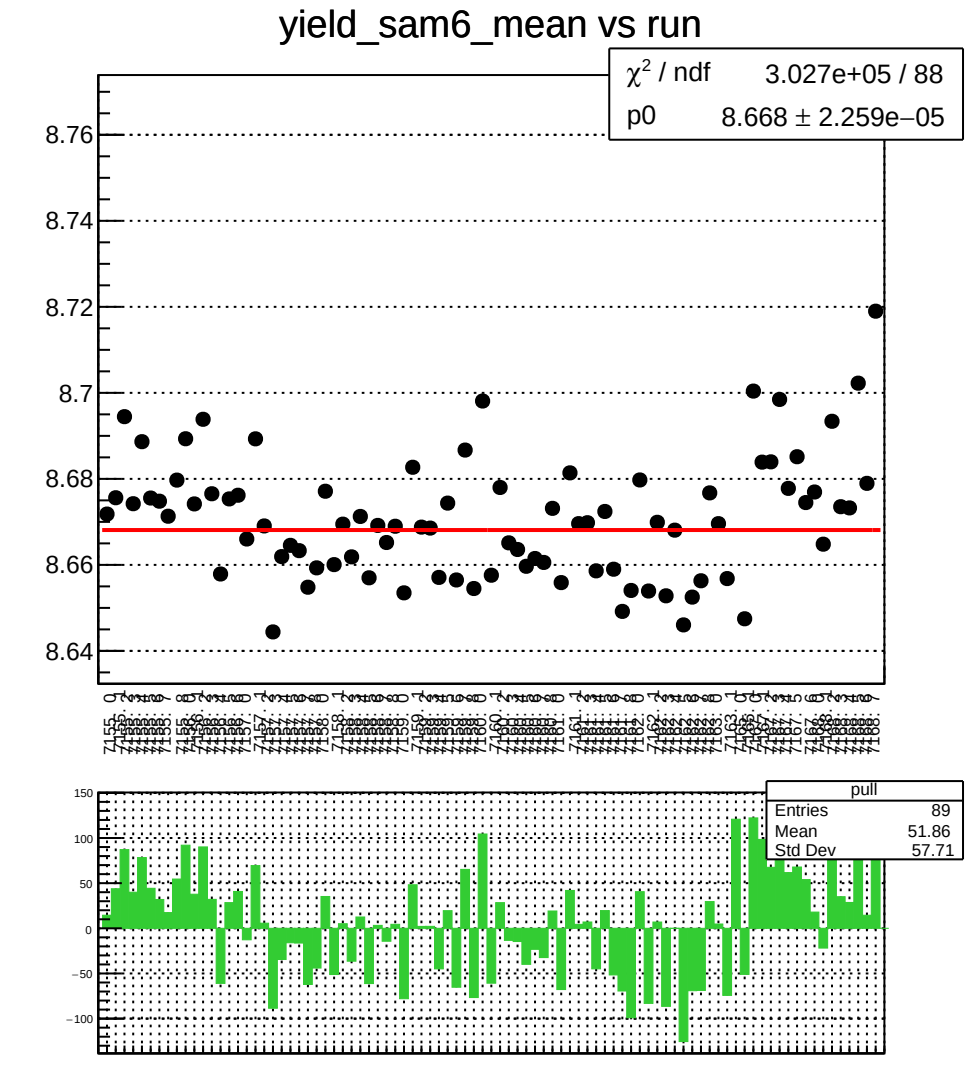

pull1D
Entries 89
Mean 0.4948
Std Dev 3.038
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

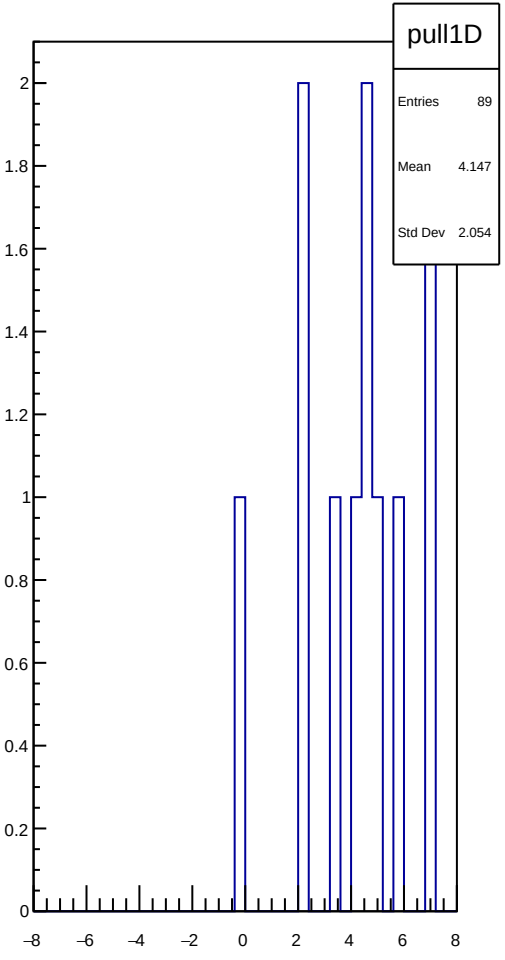

yield_sam4_rms vs run
χ² / ndf 1.77e+05 / 88
p0 0.059 ± 4.734e–05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

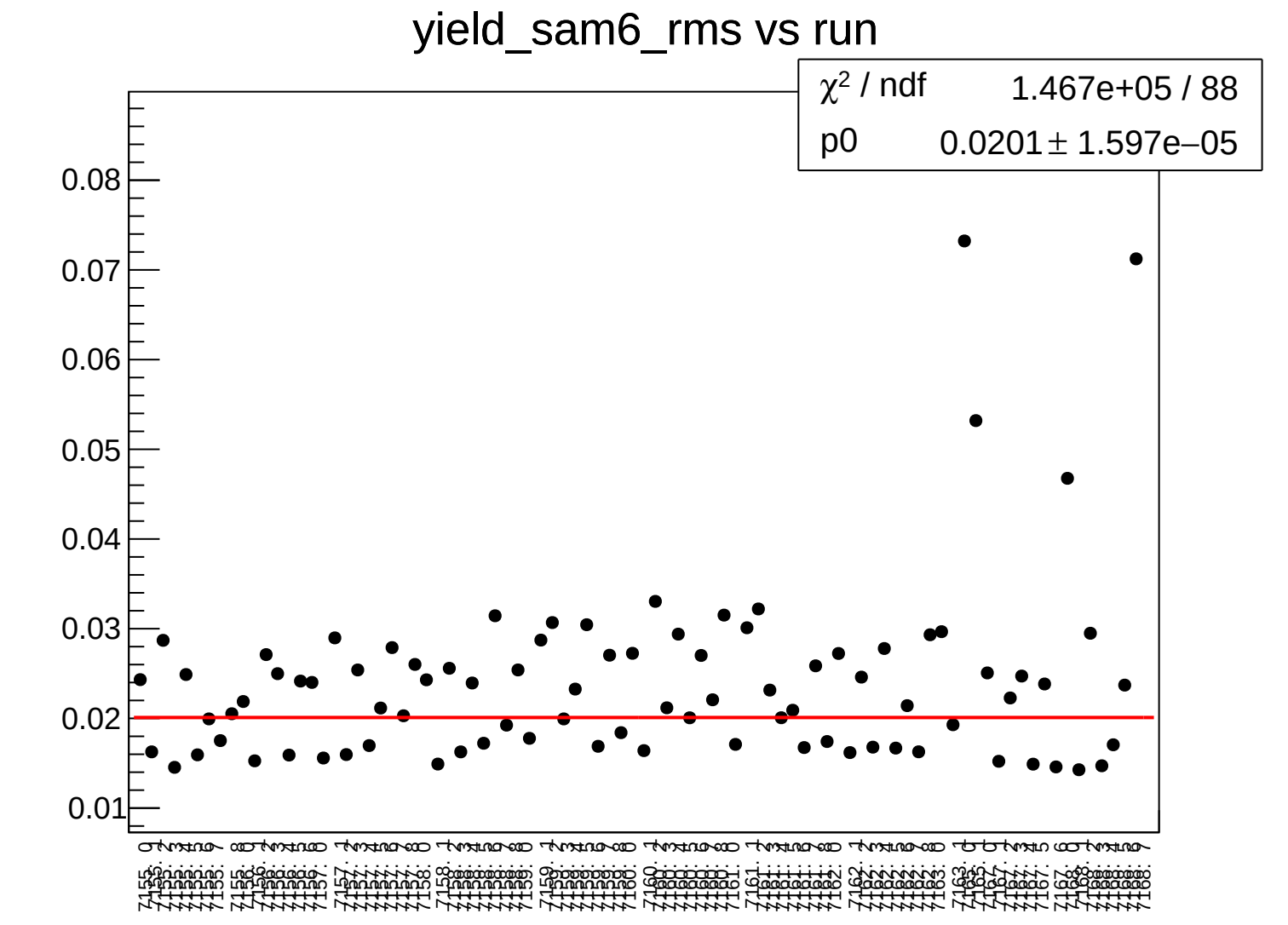

yield_sam5_mean vs run
χ² / ndf 4.239e+05 / 88
p0 17.8 ± 3.243e−05
17.92
17.9
17.88
17.86
17.84
17.82
17.8
17.78
17.76
17.74
17.72
pull
Entries 89
Mean −638.8
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

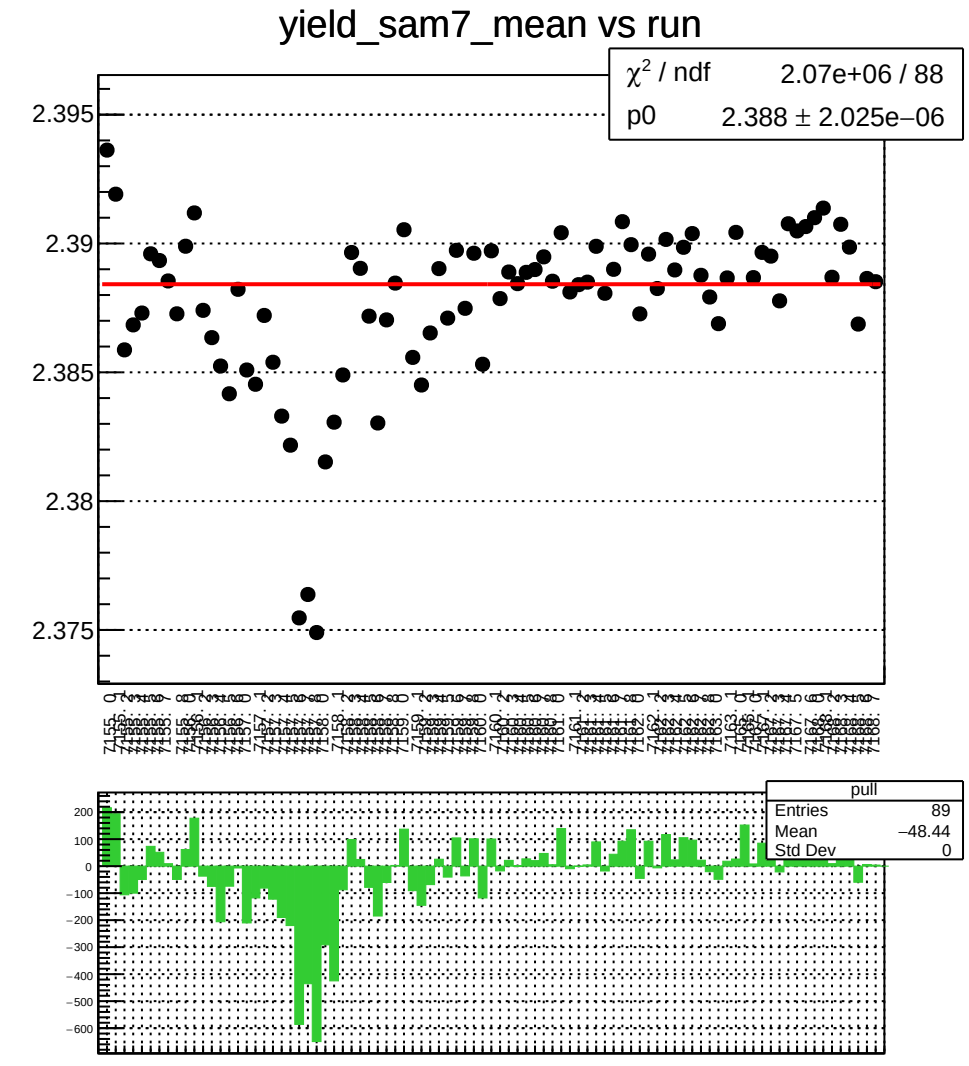

pull1D
Entries 89
Mean −0.08304
Std Dev 4.723
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

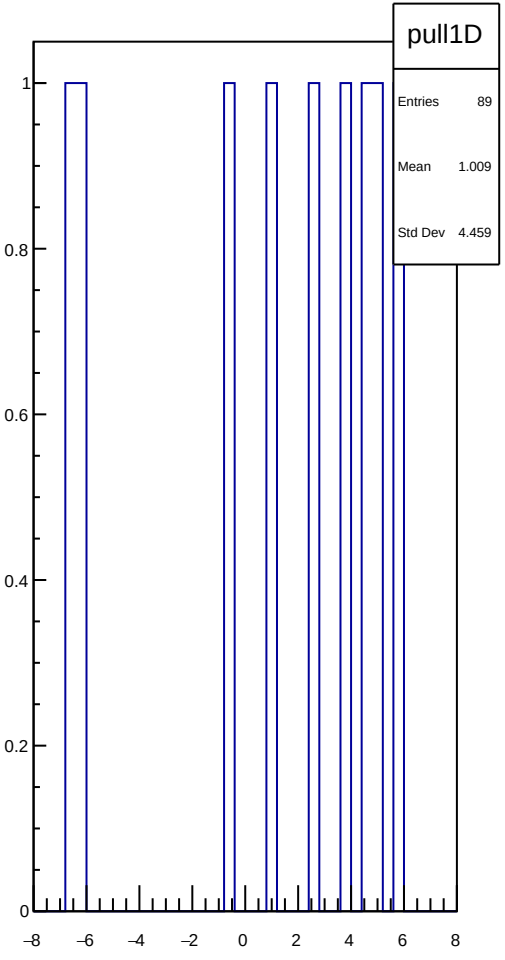

yield_sam5_rms vs run
χ² / ndf 6.596e+04 / 88
p0 0.02958 ± 2.293e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

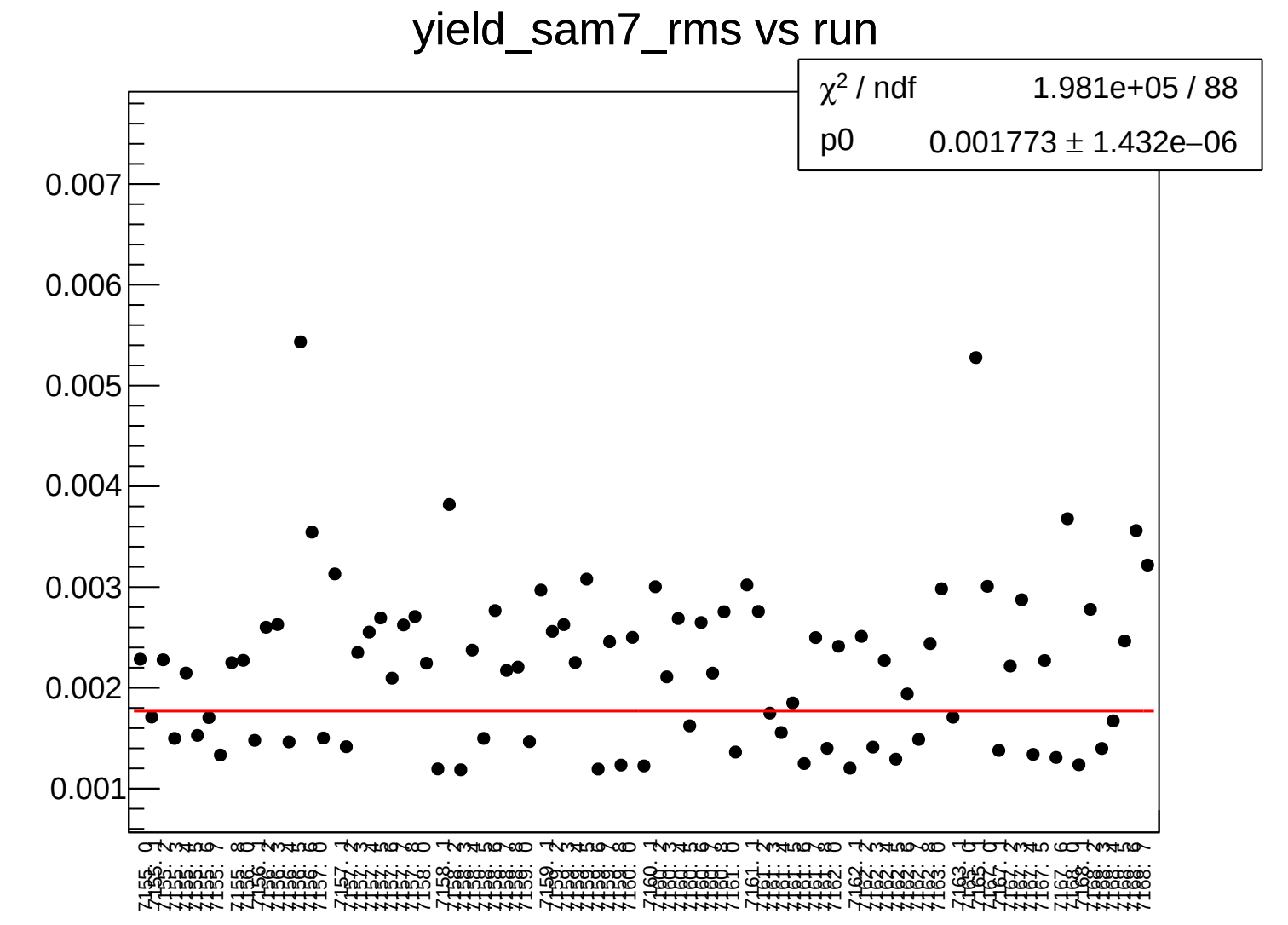

yield_sam6_mean vs run
χ² / ndf 3.027e+05 / 88
p0 8.668 ± 2.259e−05
8.76
8.74
8.72
8.7
8.68
8.66
8.64
pull
Entries 89
Mean 51.86
Std Dev 57.71
150
100
50
0
−50
−100

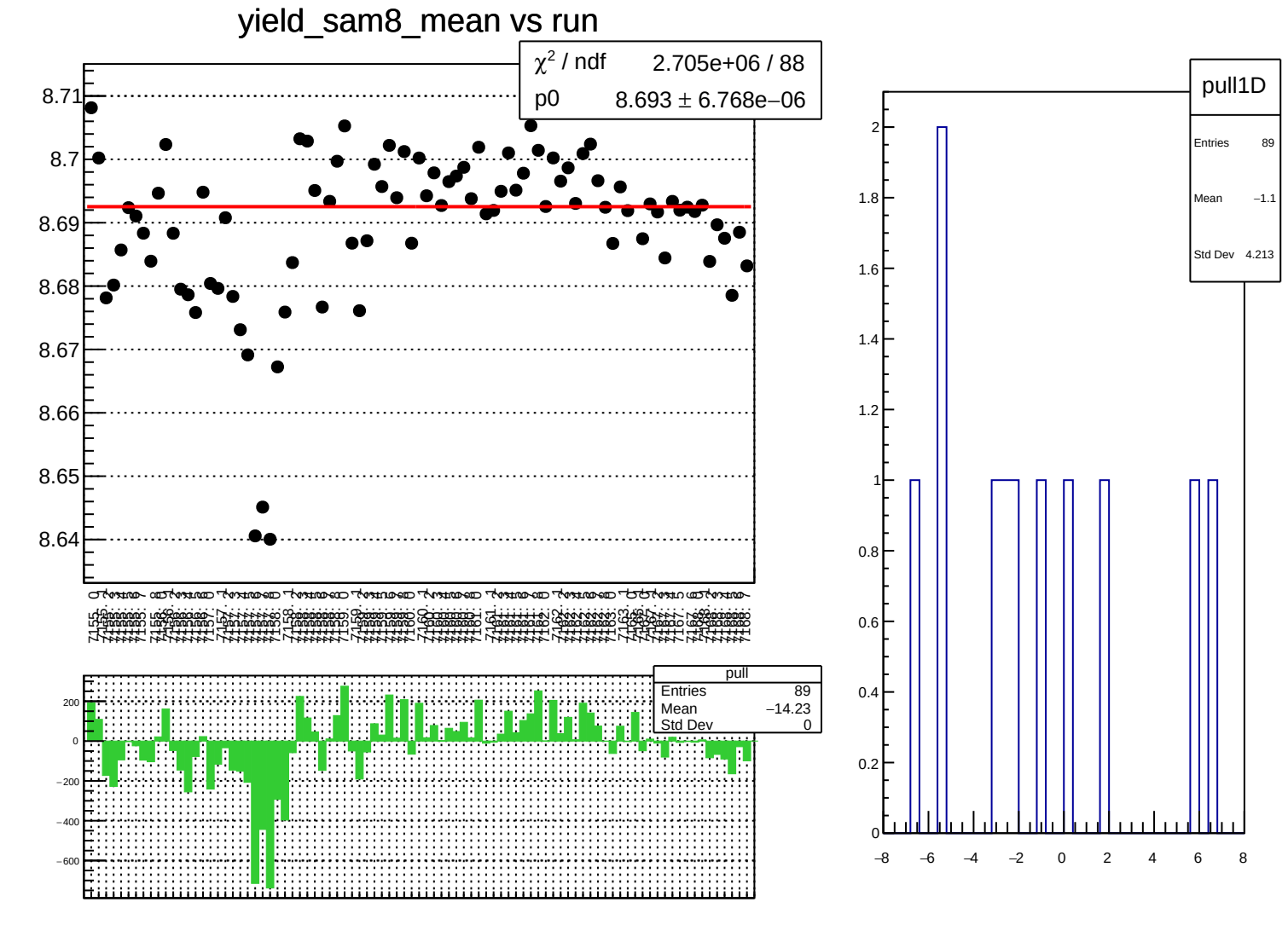

pull1D
Entries 89
Mean 4.147
Std Dev 2.054
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

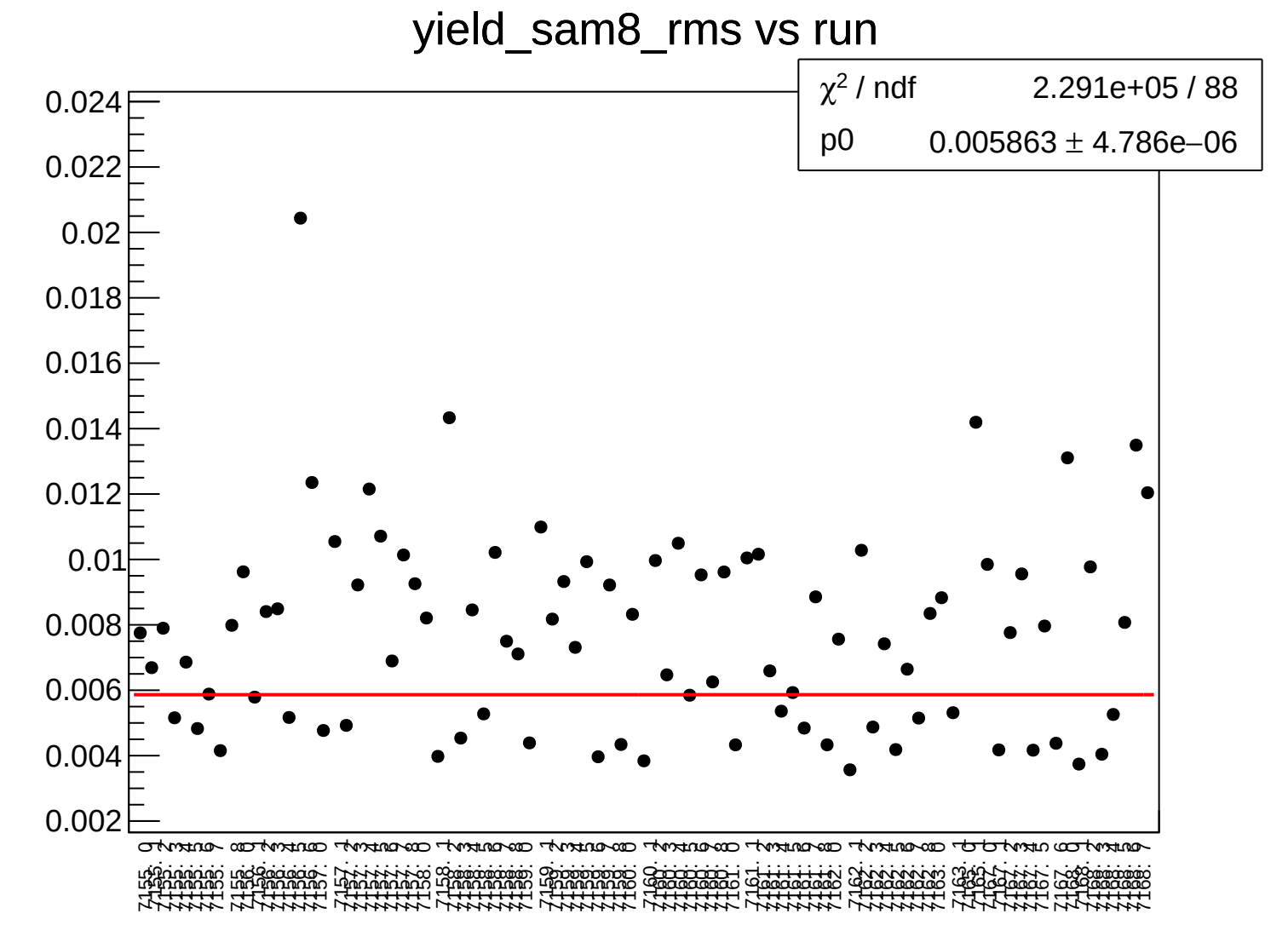

yield_sam6_rms vs run
χ² / ndf 1.467e+05 / 88
p0 0.0201 ± 1.597e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

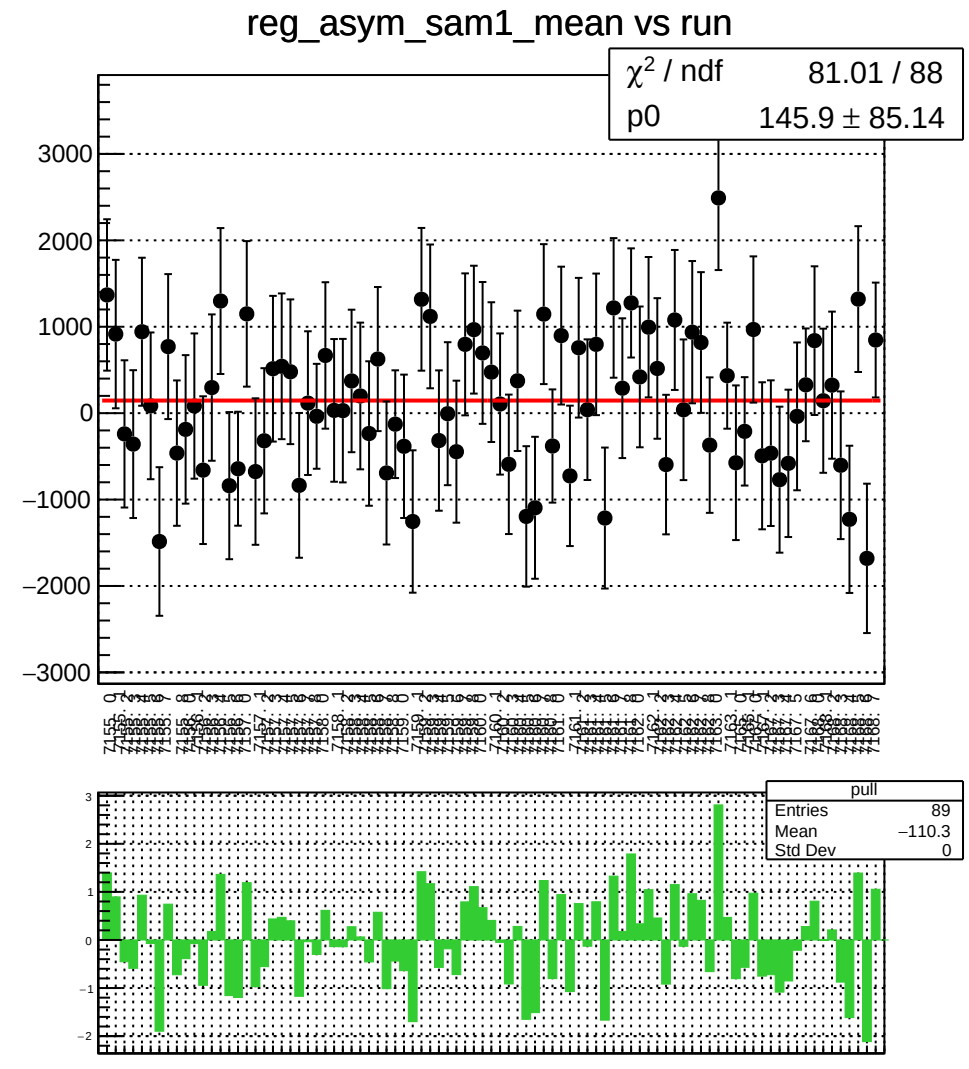

yield_sam7_mean vs run
χ² / ndf 2.07e+06 / 88
p0 2.388 ± 2.025e−06
2.395
2.39
2.385
2.38
2.375
pull
Entries 89
Mean −48.44
Std Dev 0
200
100
0
−100
−200
−300
−400
−500
−600

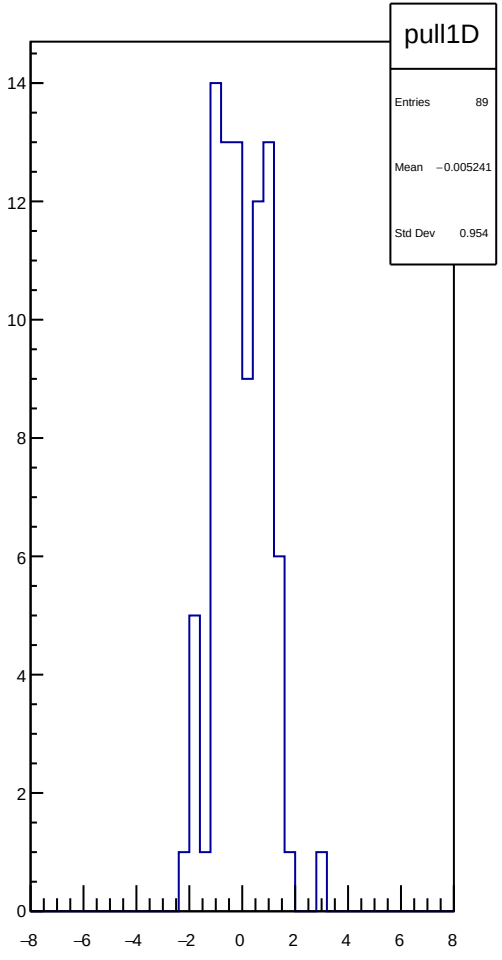

pull1D
Entries 89
Mean 1.009
Std Dev 4.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

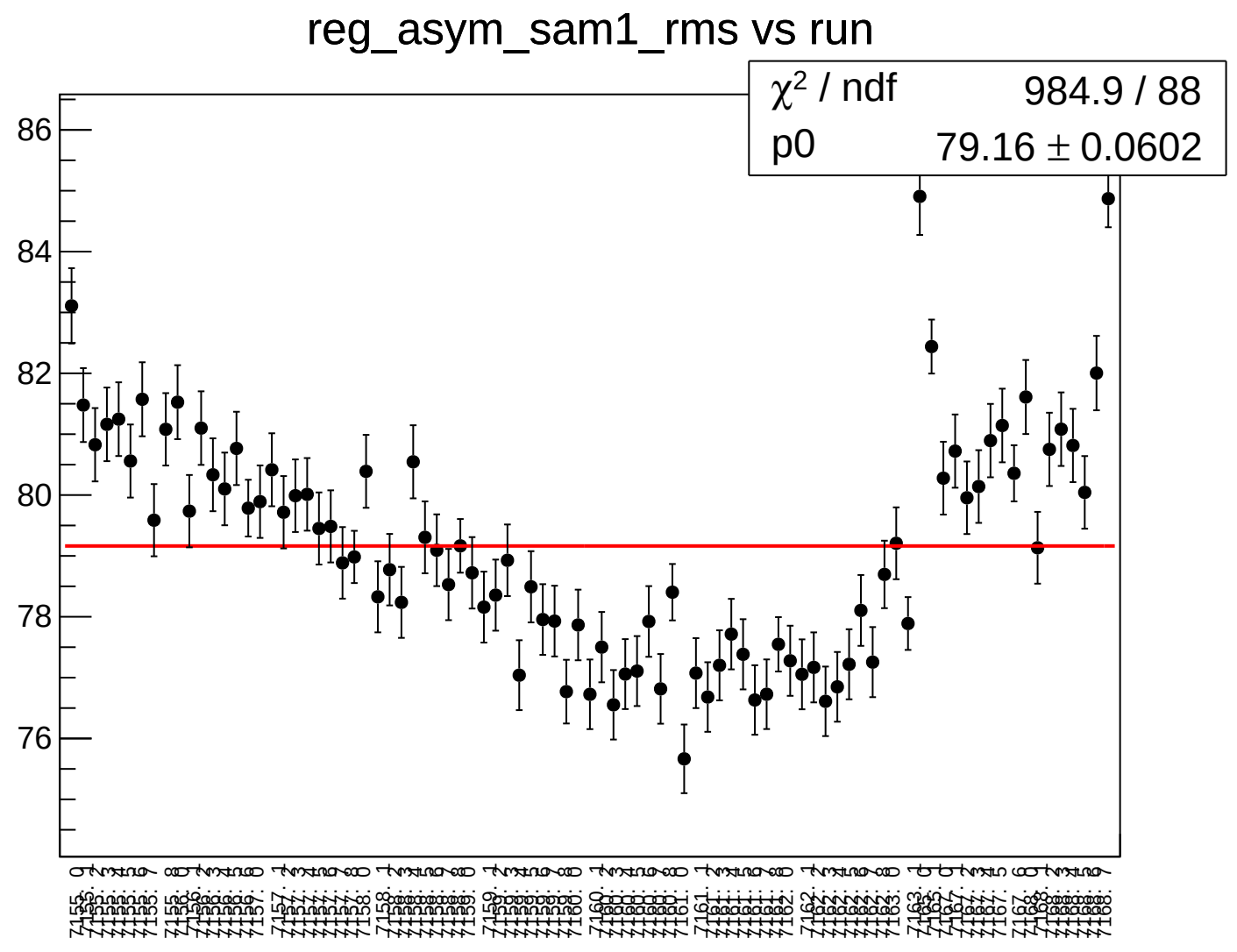

yield_sam7_rms vs run
χ^2 / ndf 1.981e+05 / 88
p0 0.001773 ± 1.432e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

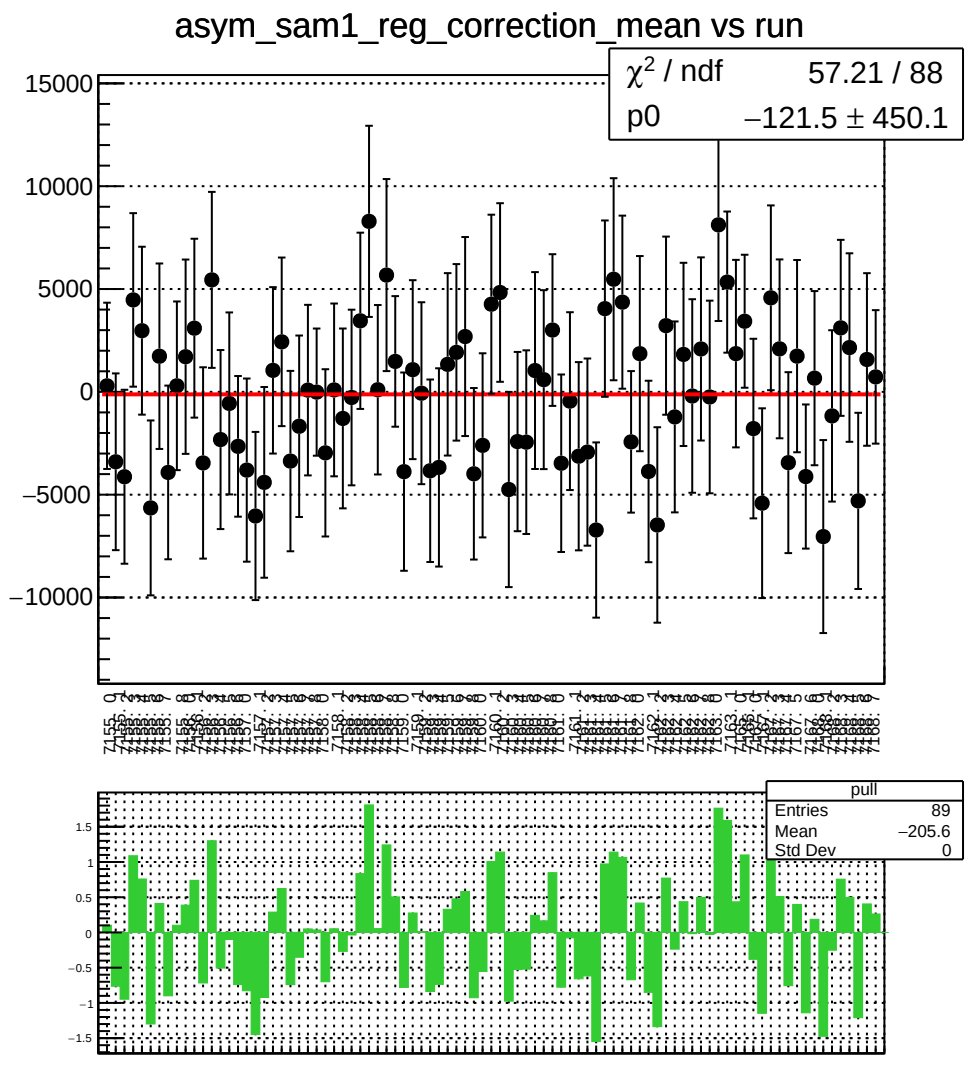

yield_sam8_mean vs run
χ² / ndf 2.705e+06 / 88
p0 8.693 ± 6.768e−06
8.71
8.7
8.69
8.68
8.67
8.66
8.65
8.64
pull
Entries 89
Mean −14.23
Std Dev 0
200
0
−200
−400
−600
pull1D
Entries 89
Mean −1.1
Std Dev 4.213
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

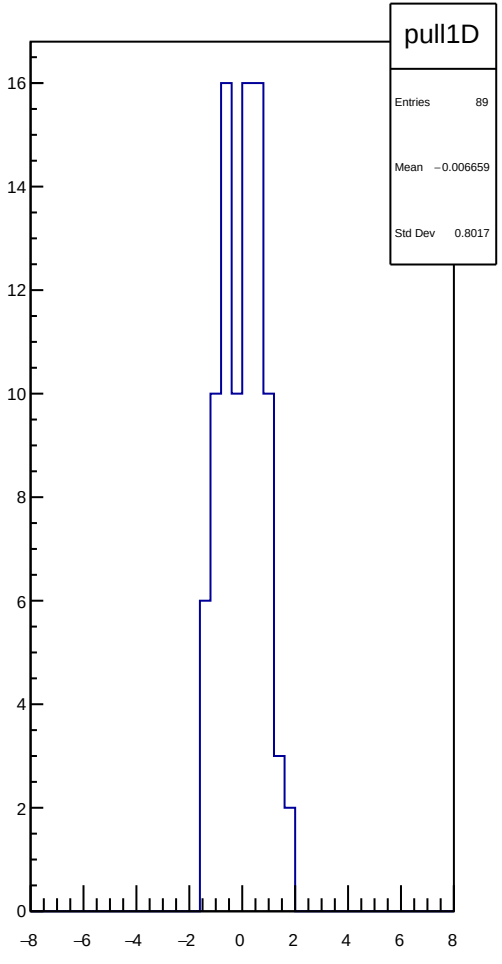

yield_sam8_rms vs run
χ² / ndf 2.291e+05 / 88
p0 0.005863 ± 4.786e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

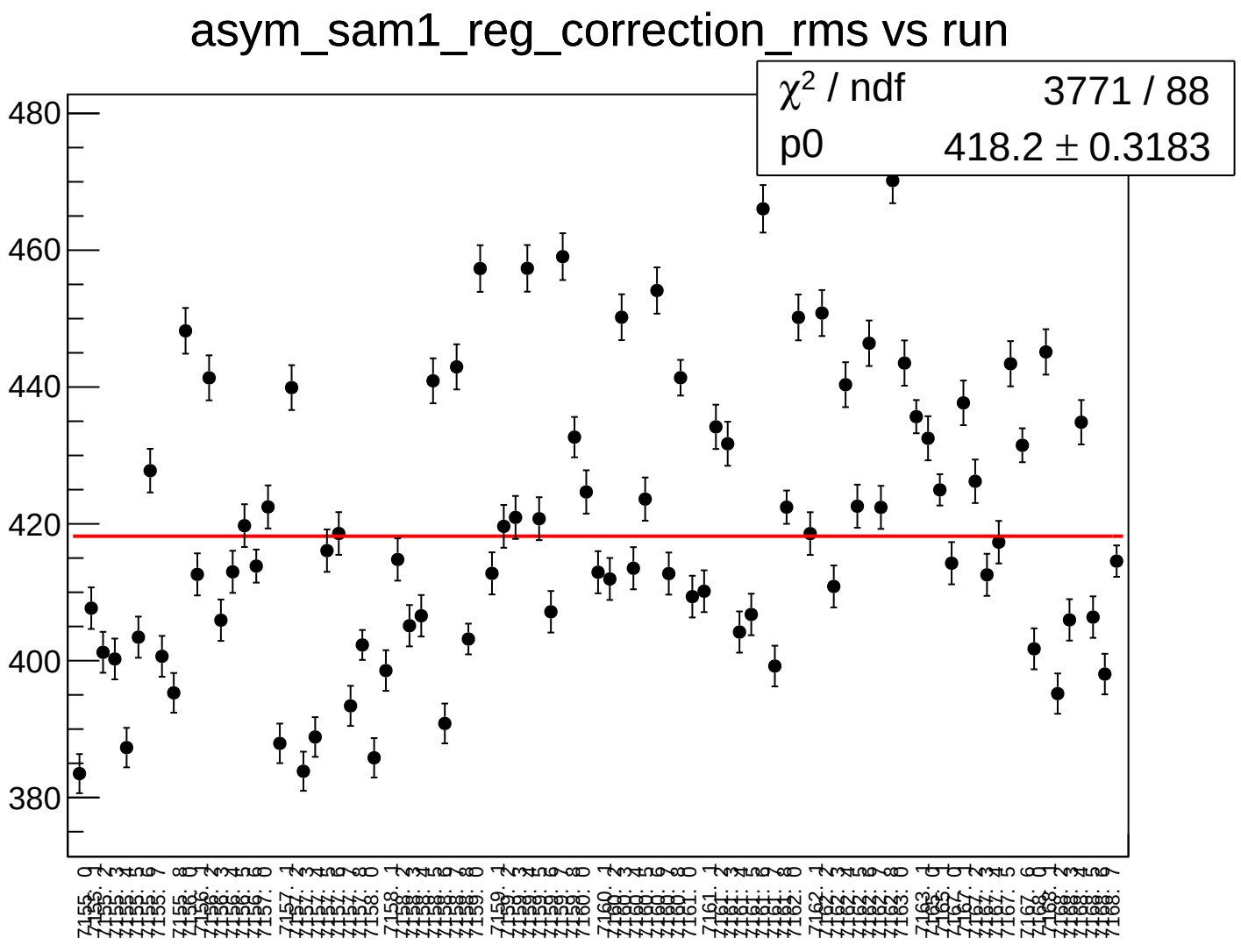

reg_asym_sam1_mean vs run
χ² / ndf 81.01 / 88
p0 145.9 ± 85.14
pull
Entries 89
Mean −110.3
Std Dev 0

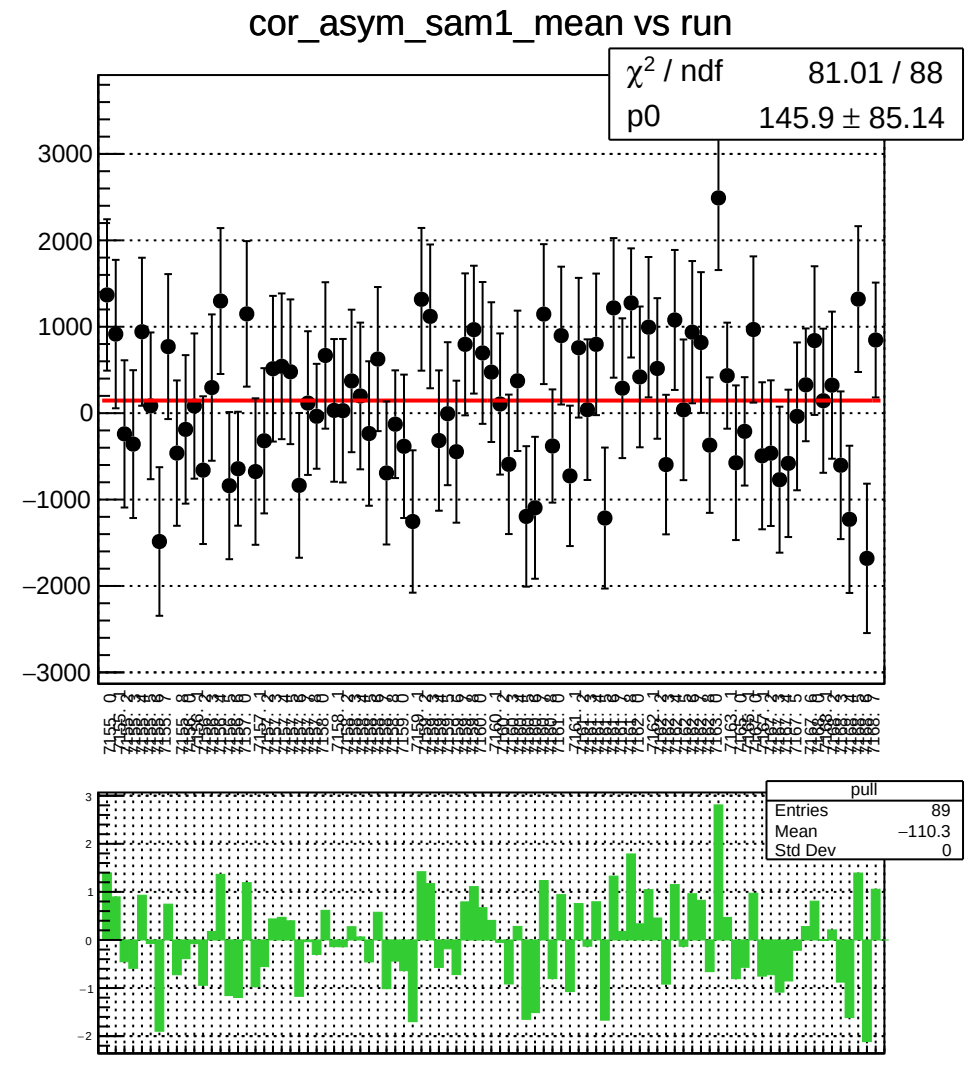

pull1D
Entries 89
Mean −0.005241
Std Dev 0.954

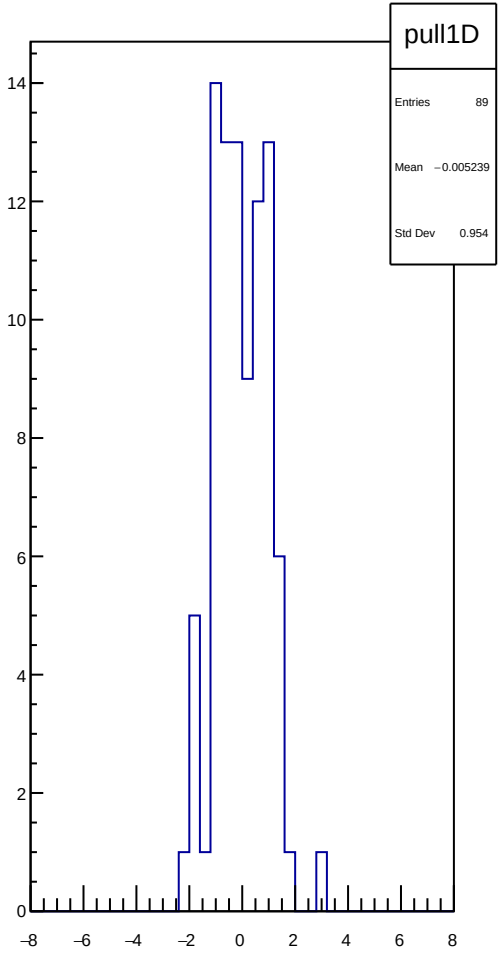

reg_asym_sam1_rms vs run
χ² / ndf 984.9 / 88
p0 79.16 ± 0.0602
86
84
82
80
78
76

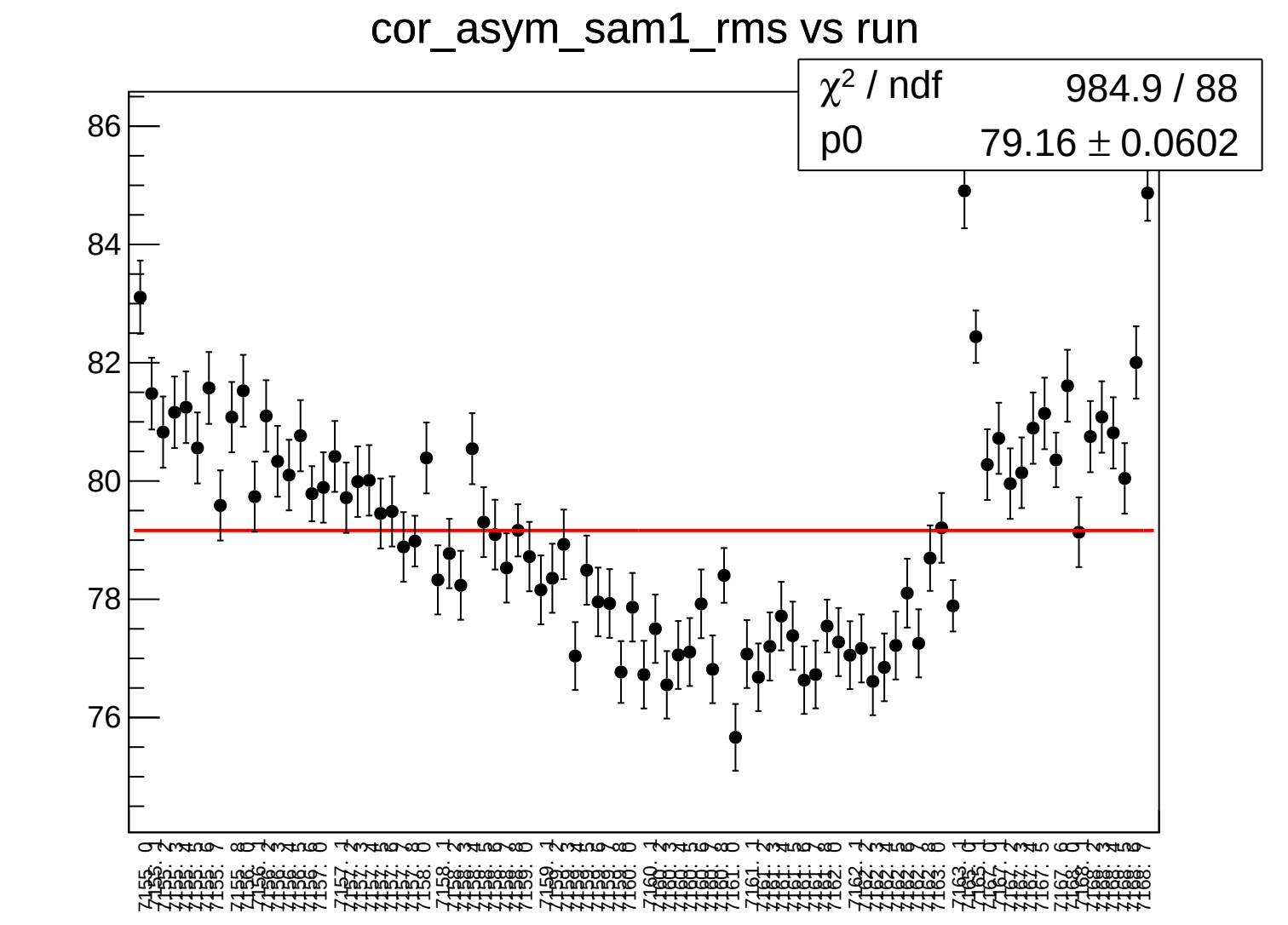

asym_sam1_reg_correction_mean vs run
χ² / ndf 57.21 / 88
p0 −121.5 ± 450.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −205.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

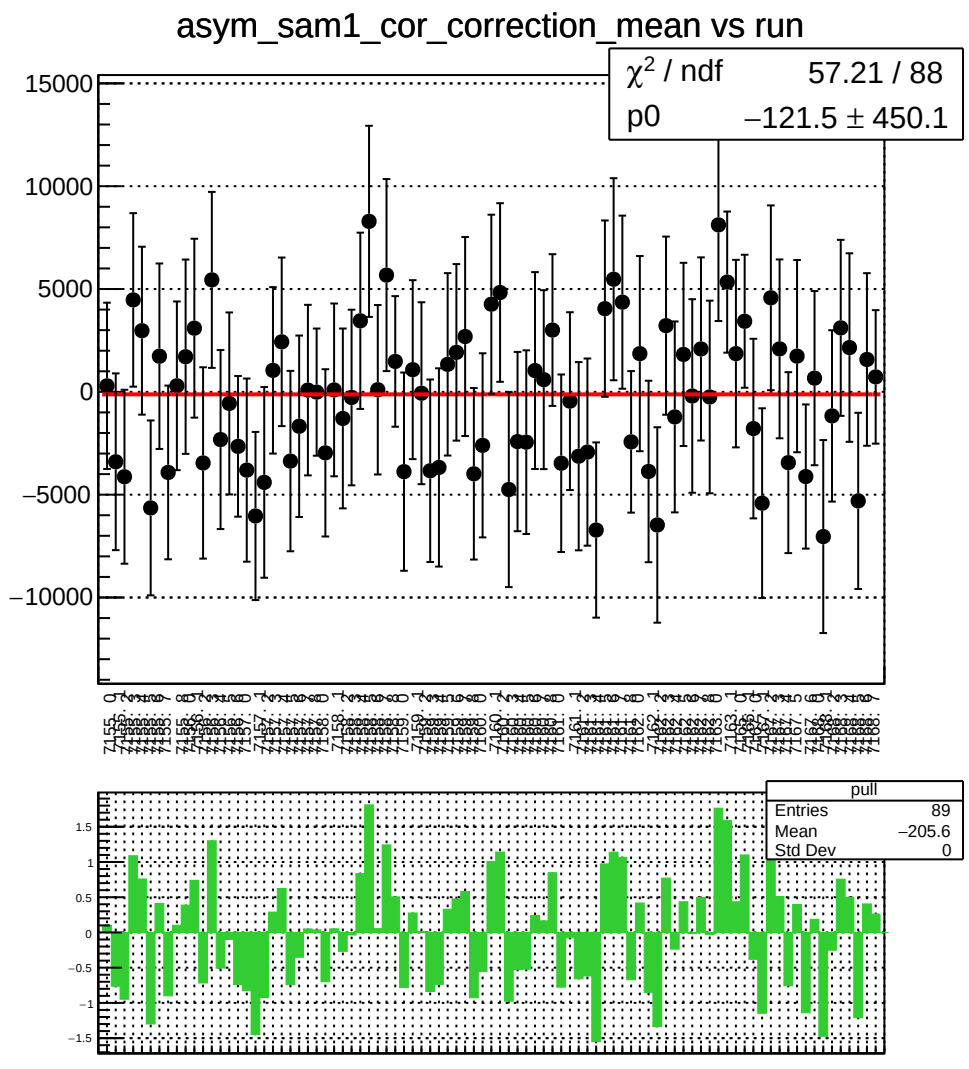

pull1D
Entries 89
Mean −0.006659
Std Dev 0.8017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

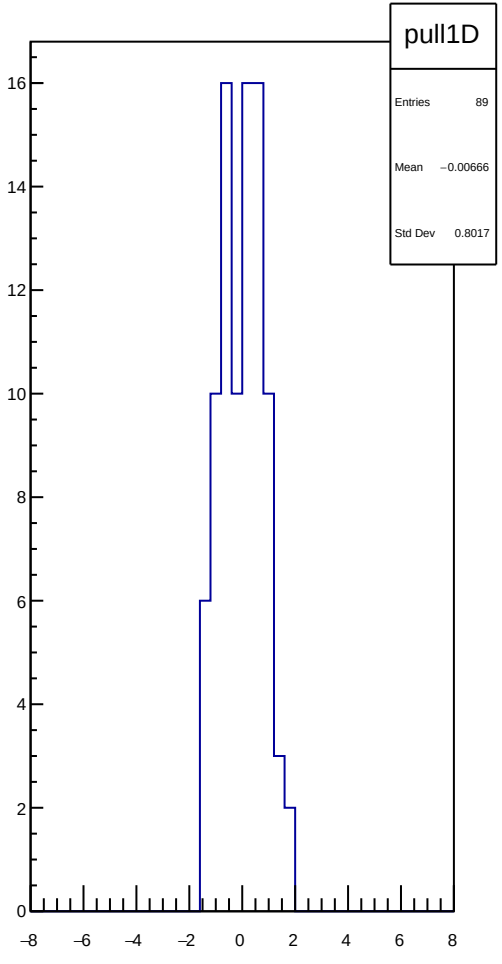

asym_sam1_reg_correction_rms vs run
χ² / ndf 3771 / 88
p0 418.2 ± 0.3183
480
460
440
420
400
380

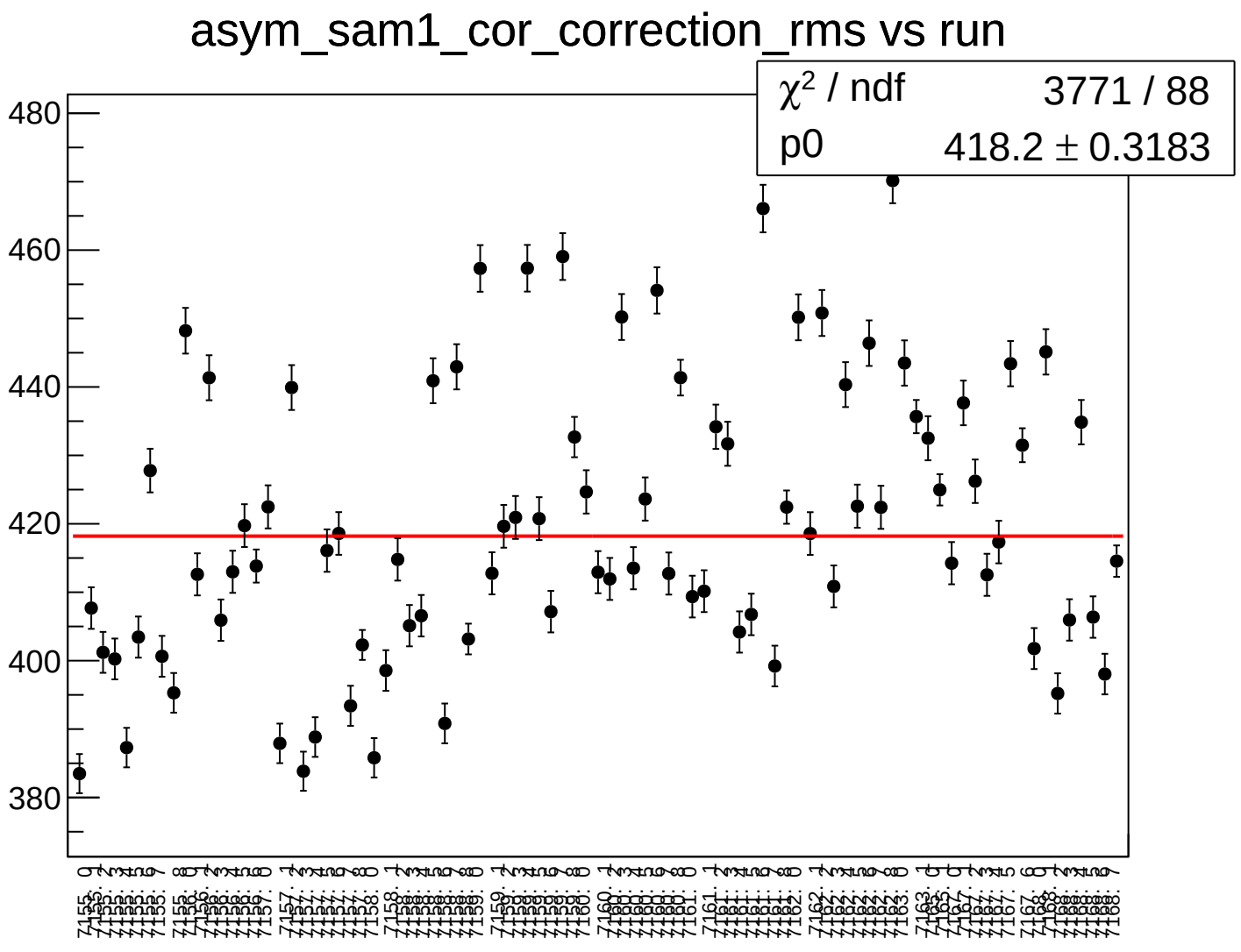

cor_asym_sam1_mean vs run
χ² / ndf 81.01 / 88
p0 145.9 ± 85.14
pull
Entries 89
Mean −110.3
Std Dev 0

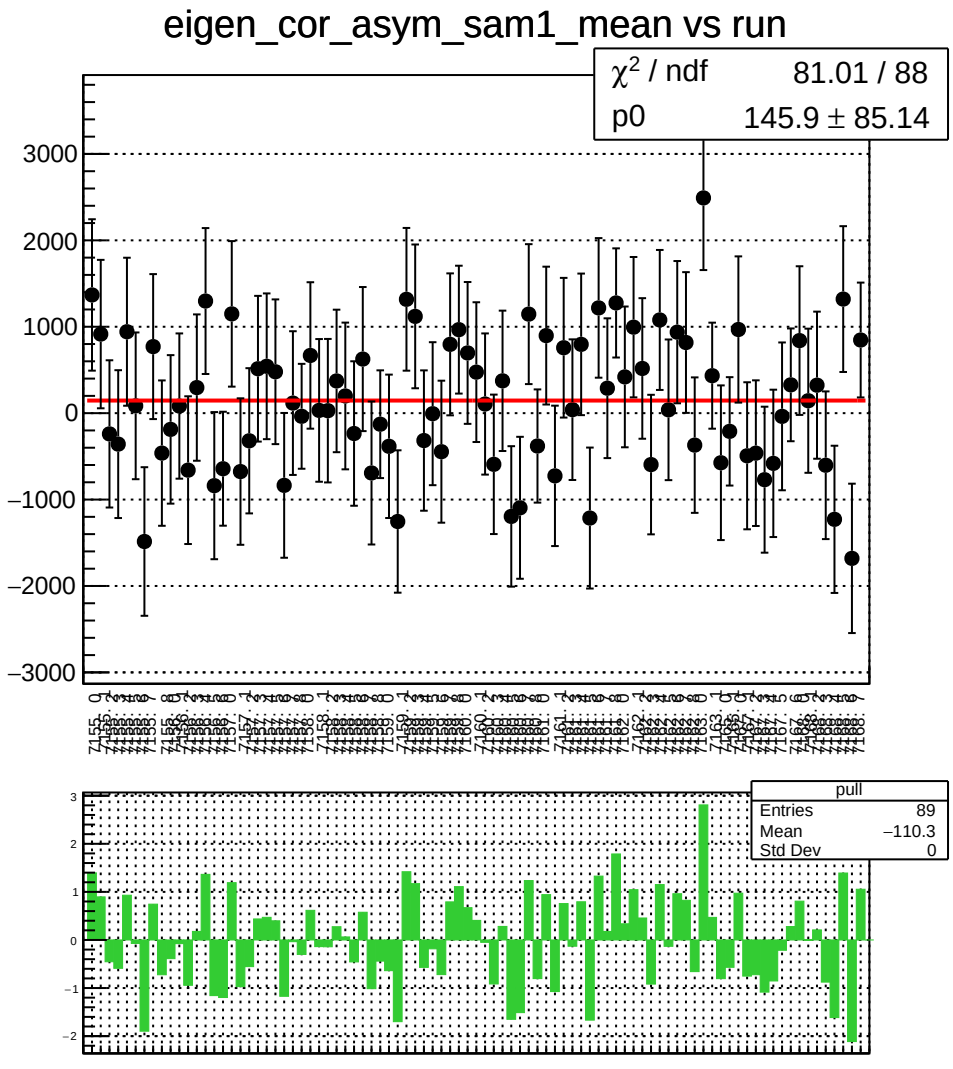

pull1D
Entries 89
Mean −0.005239
Std Dev 0.954

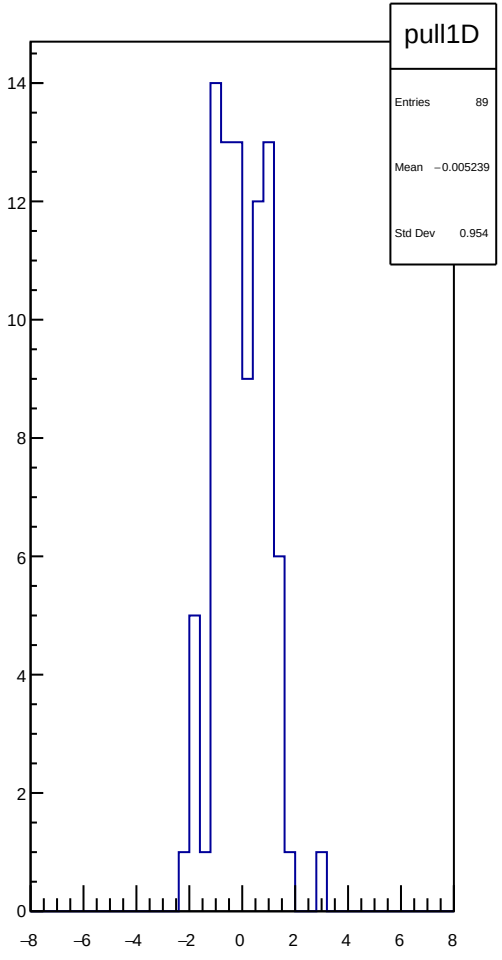

cor_asym_sam1_rms vs run
χ^2 / ndf 984.9 / 88
p0 79.16 ± 0.0602
86
84
82
80
78
76

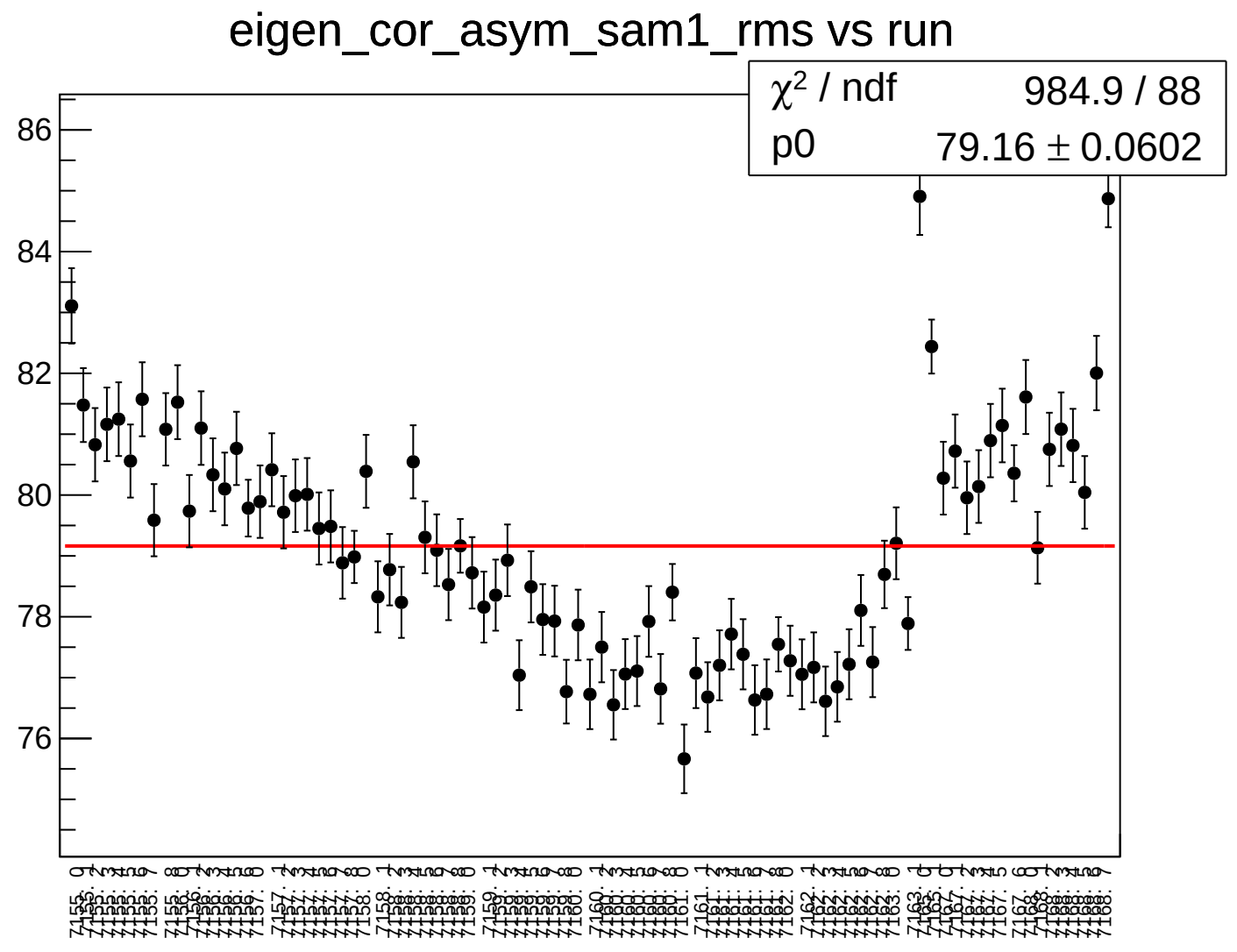

asym_sam1_cor_correction_mean vs run
χ² / ndf 57.21 / 88
p0 −121.5 ± 450.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −205.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

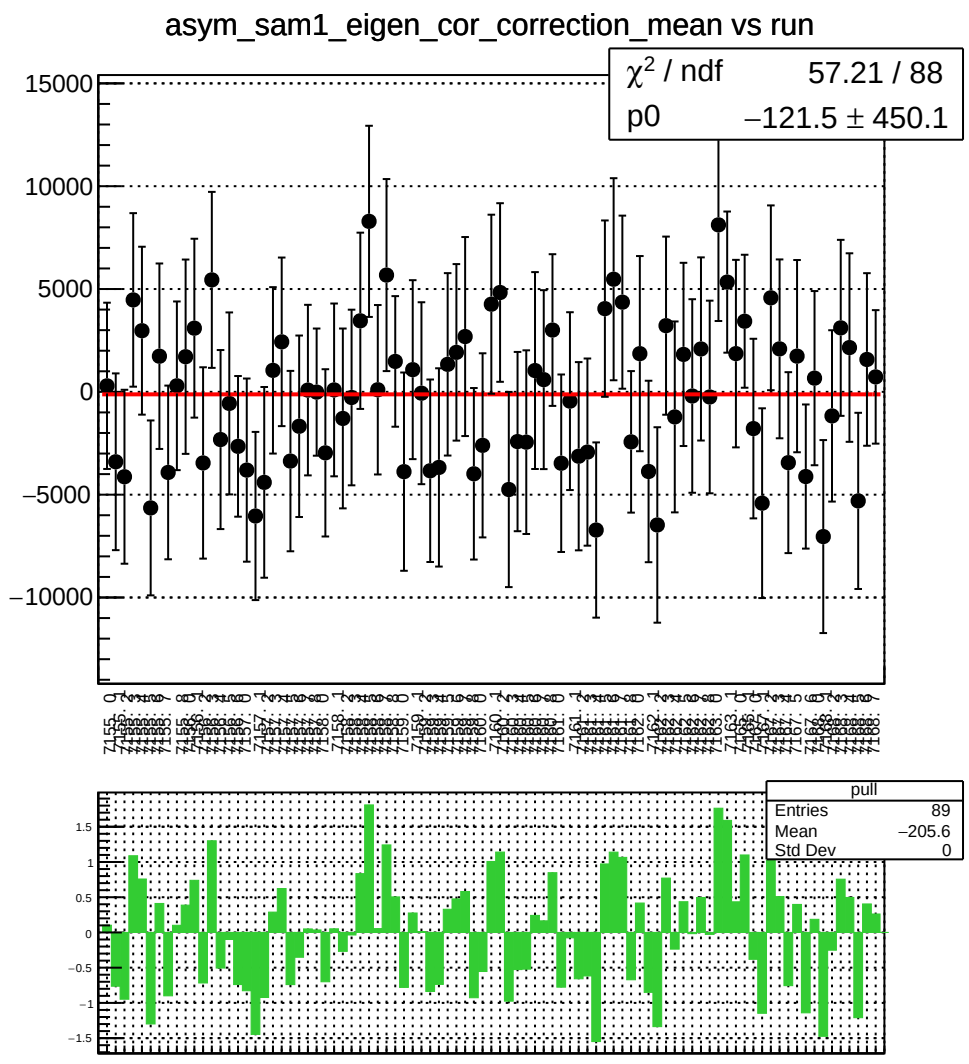

pull1D
Entries 89
Mean −0.00666
Std Dev 0.8017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

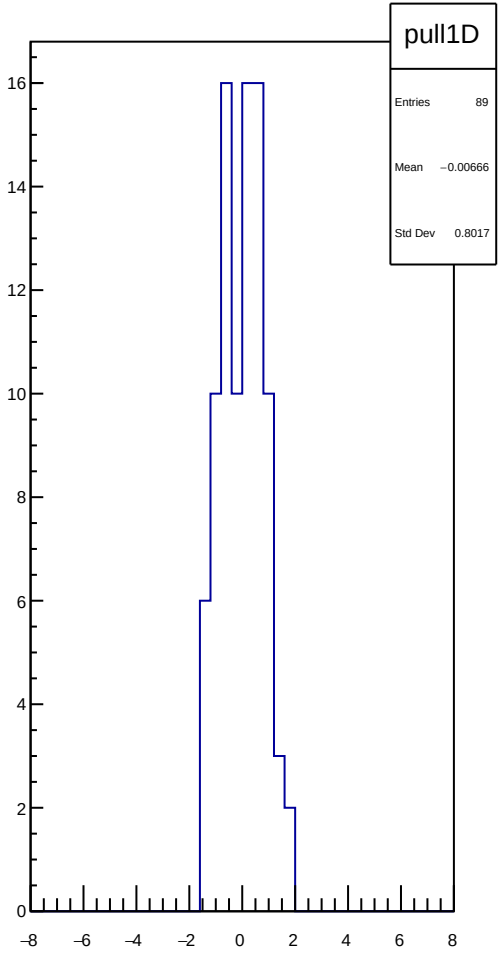

asym_sam1_cor_correction_rms vs run
χ² / ndf 3771 / 88
p0 418.2 ± 0.3183
480
460
440
420
400
380

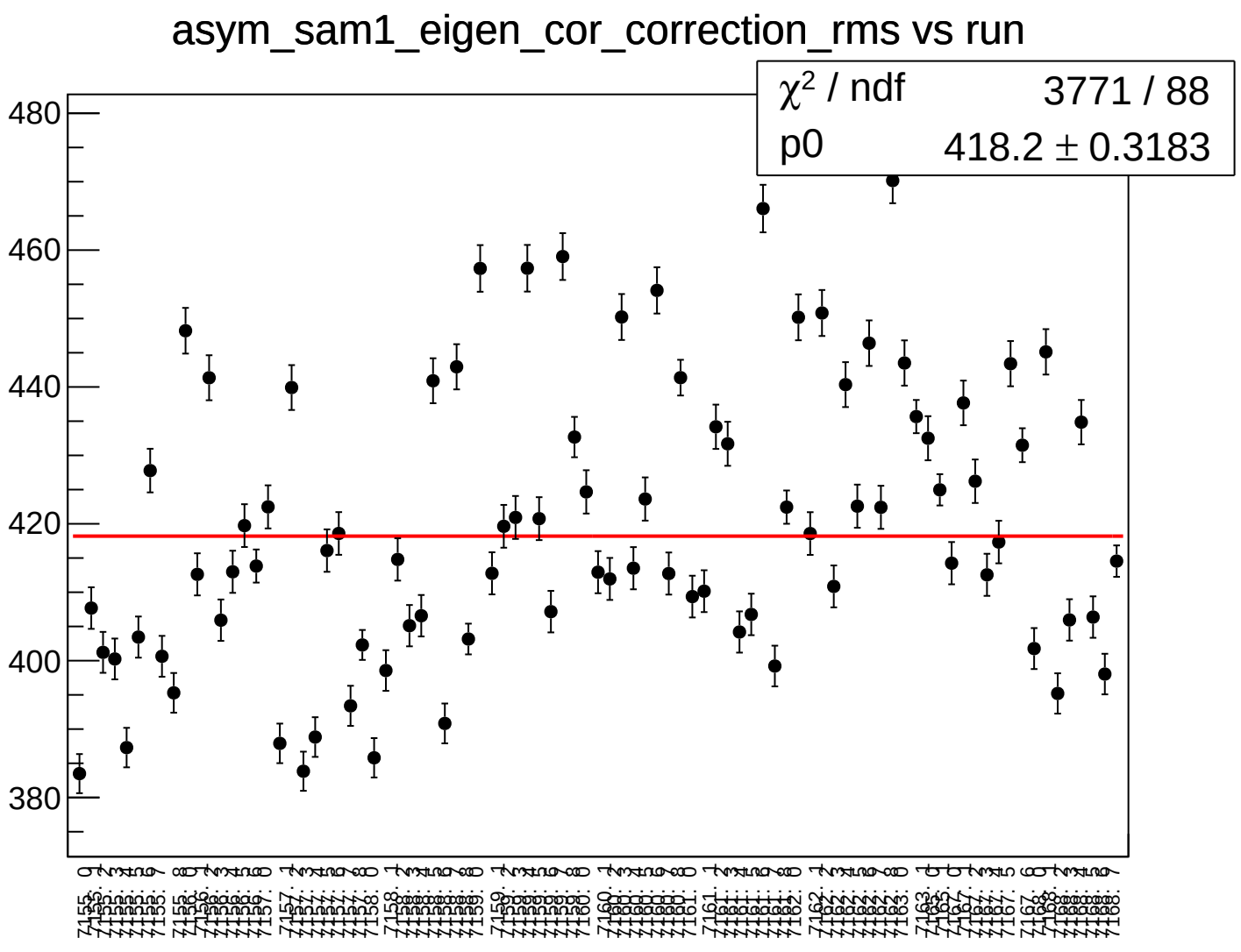

eigen_cor_asym_sam1_mean vs run
χ² / ndf 81.01 / 88
p0 145.9 ± 85.14
pull
Entries 89
Mean −110.3
Std Dev 0

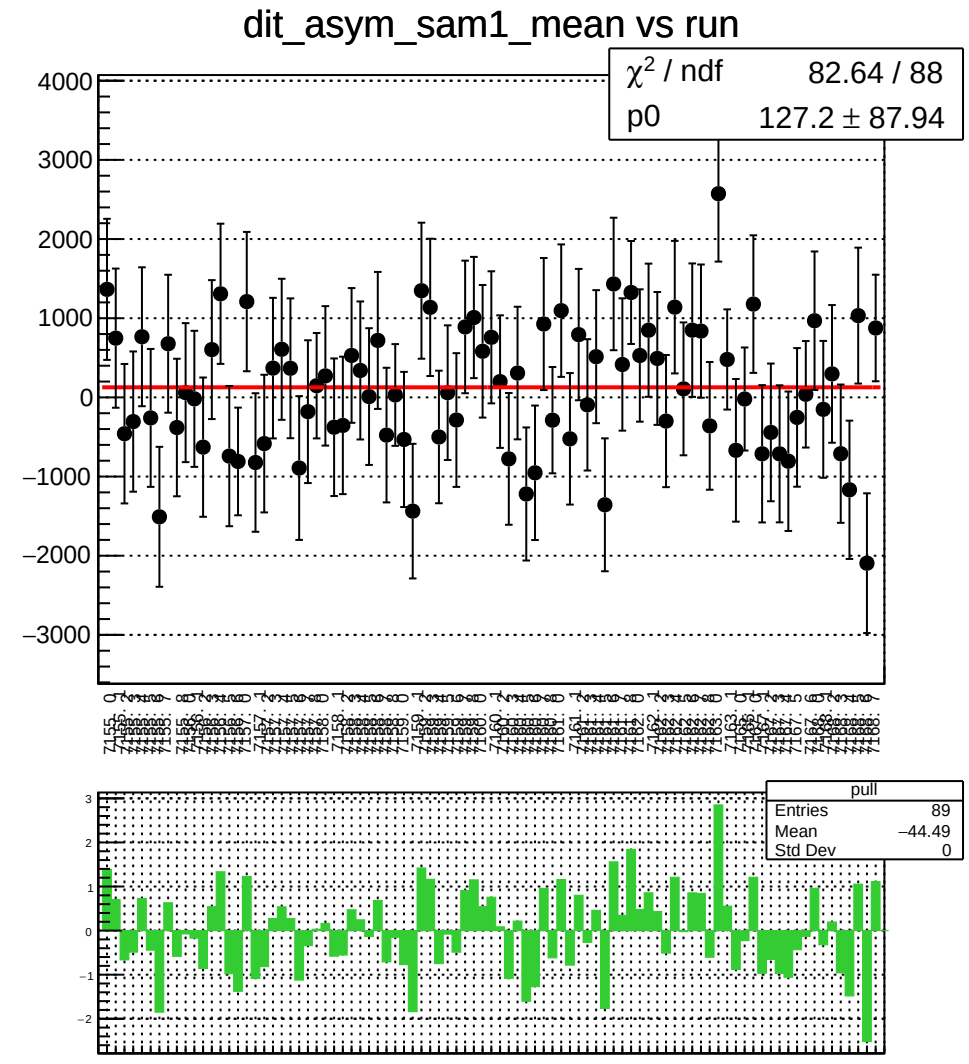

pull1D
Entries 89
Mean −0.005239
Std Dev 0.954

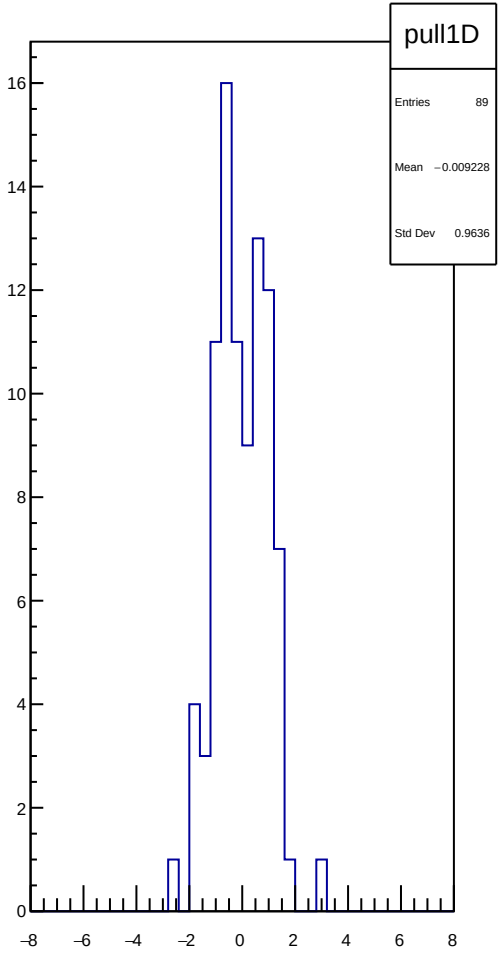

eigen_cor_asym_sam1_rms vs run
χ² / ndf 984.9 / 88
p0 79.16 ± 0.0602
86
84
82
80
78
76

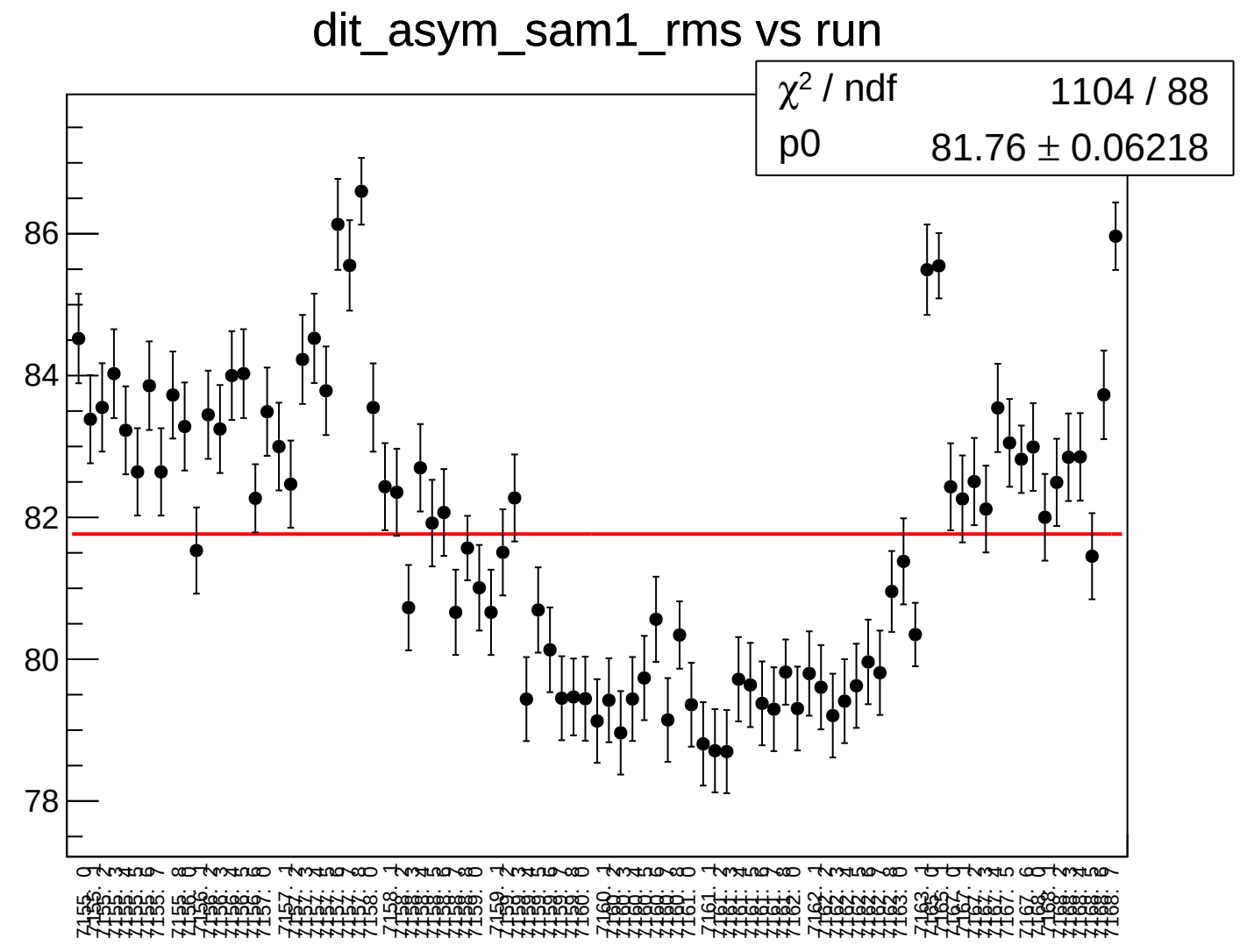

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 57.21 / 88
p0 −121.5 ± 450.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −205.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

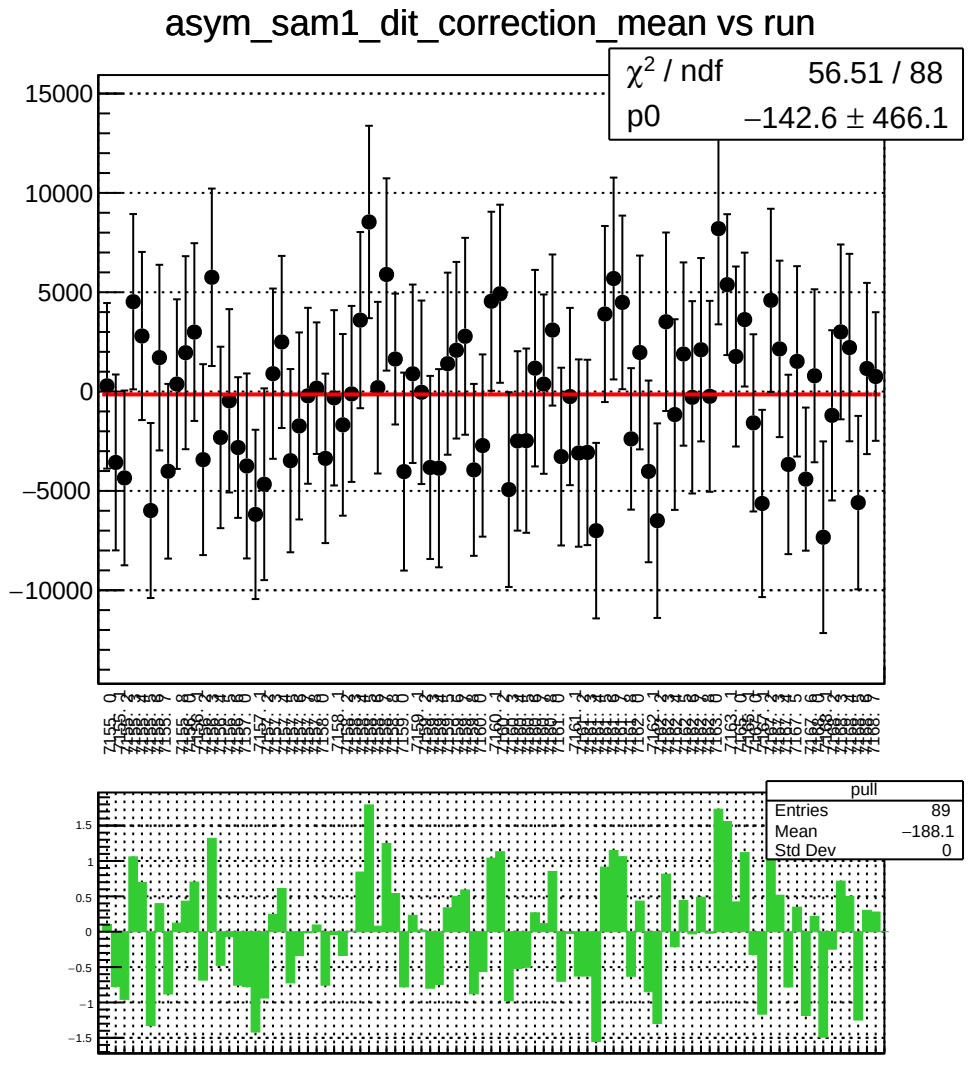

pull1D
Entries 89
Mean −0.00666
Std Dev 0.8017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

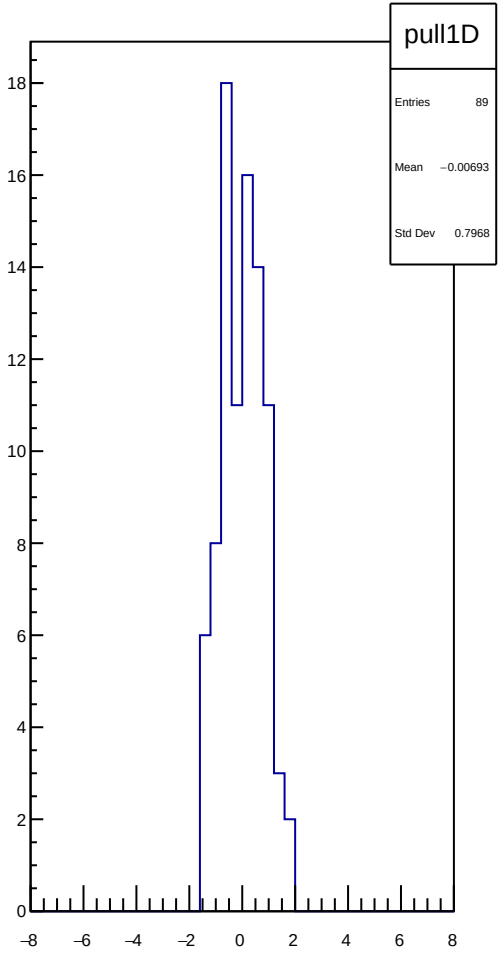

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 3771 / 88
p0 418.2 ± 0.3183
480
460
440
420
400
380

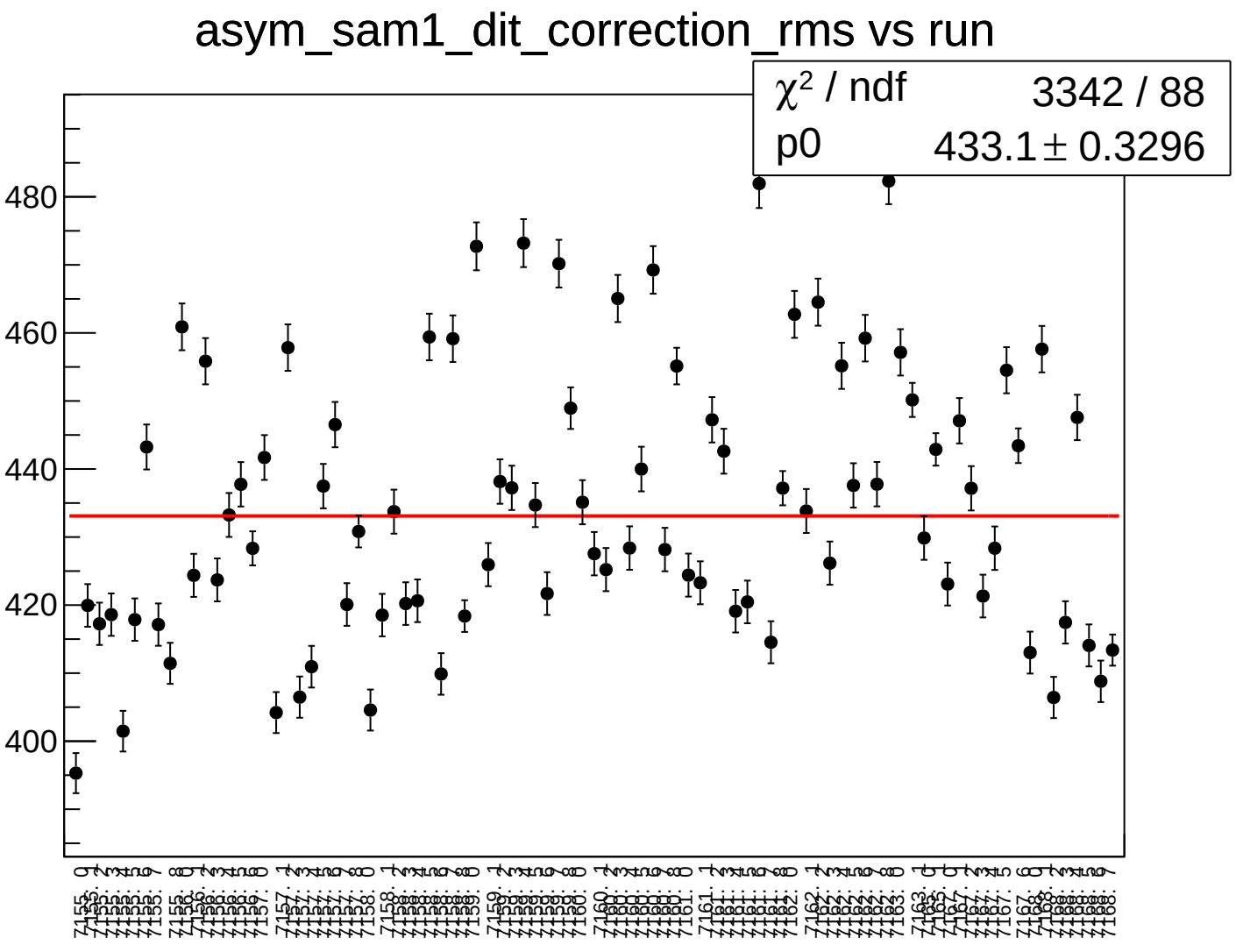

dit_asym_sam1_mean vs run
χ^2 / ndf 82.64 / 88
p0 127.2 ± 87.94
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −44.49
Std Dev 0
3
2
1
0
−1
−2

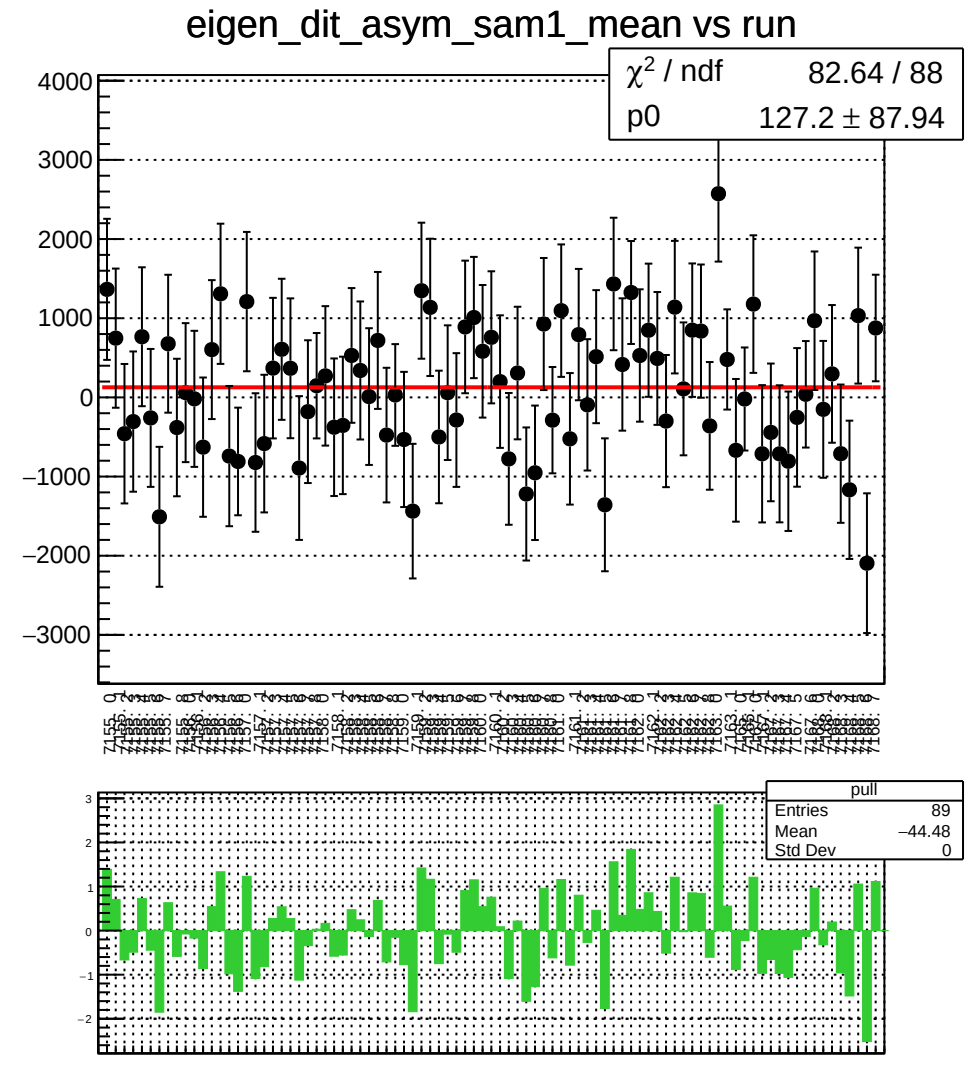

pull1D
Entries 89
Mean −0.009228
Std Dev 0.9636
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

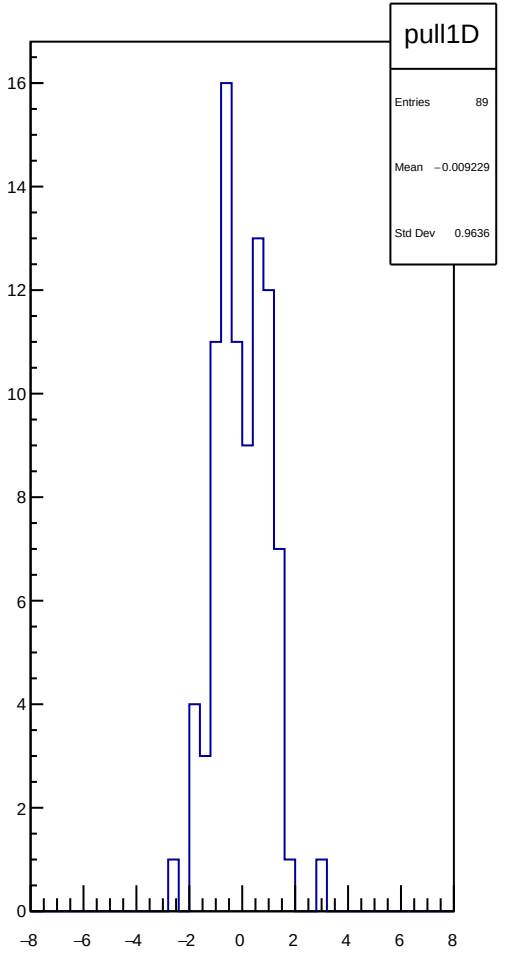

dit_asym_sam1_rms vs run
χ² / ndf 1104 / 88
p0 81.76 ± 0.06218
86
84
82
80
78

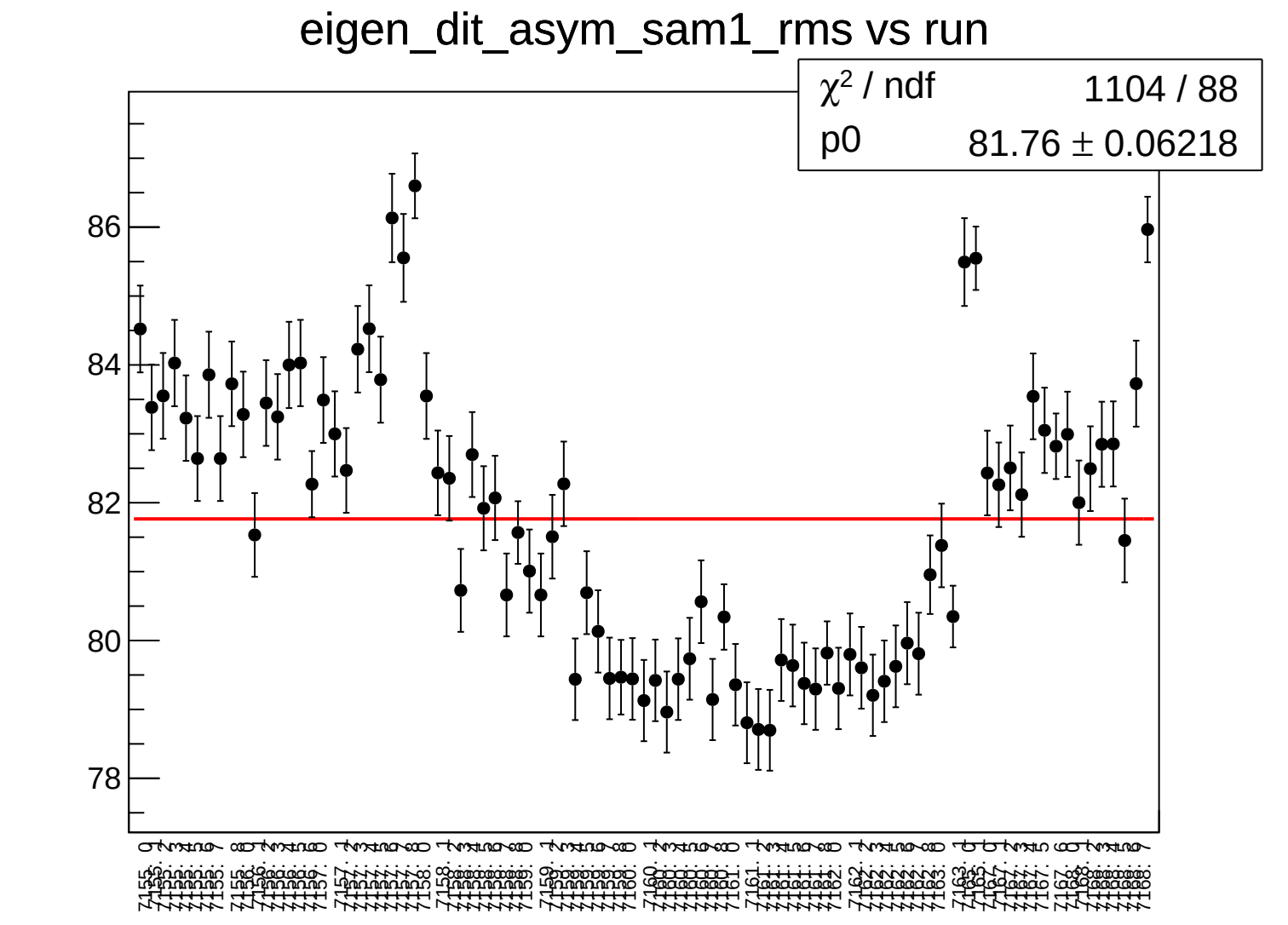

asym_sam1_dit_correction_mean vs run
χ² / ndf 56.51 / 88
p0 −142.6 ± 466.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −188.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

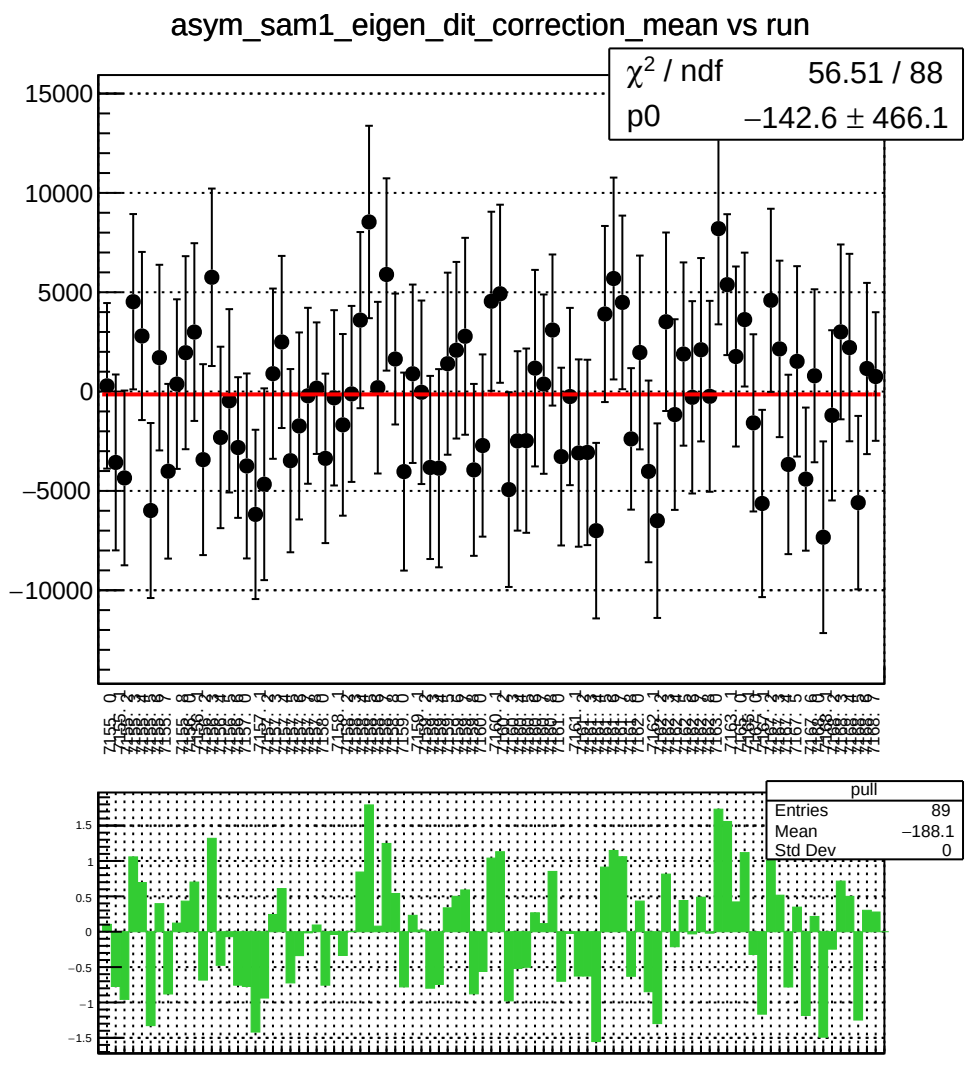

pull1D
Entries 89
Mean −0.00693
Std Dev 0.7968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

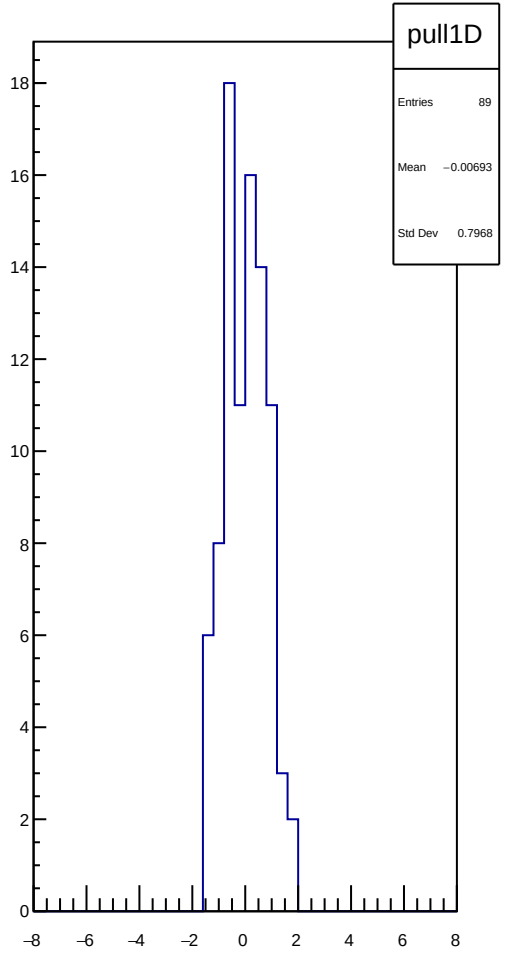

asym_sam1_dit_correction_rms vs run
χ² / ndf 3342 / 88
p0 433.1 ± 0.3296
480
460
440
420
400

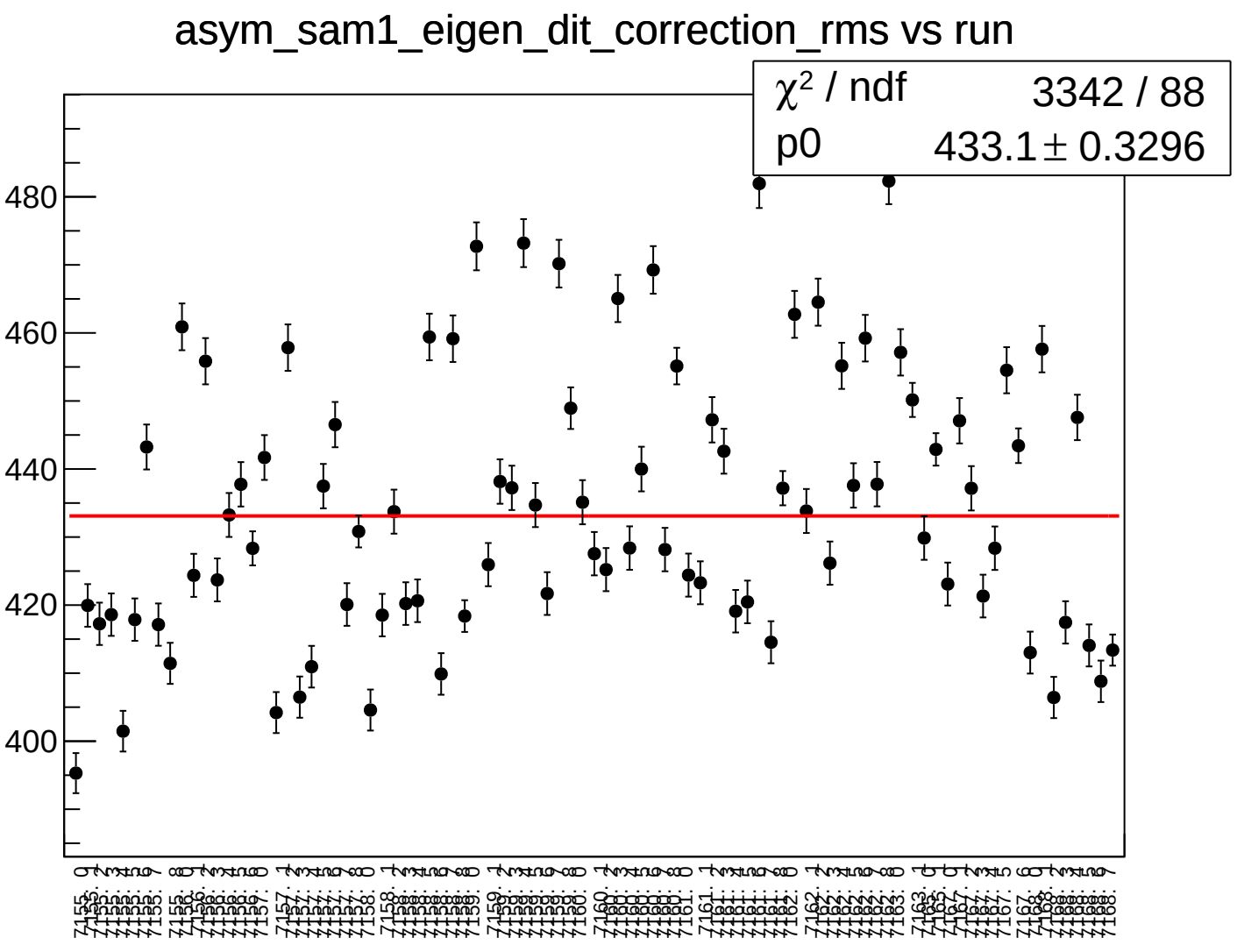

eigen_dit_asym_sam1_mean vs run
χ^2 / ndf 82.64 / 88
p0 127.2 ± 87.94
pull
Entries 89
Mean −44.48
Std Dev 0

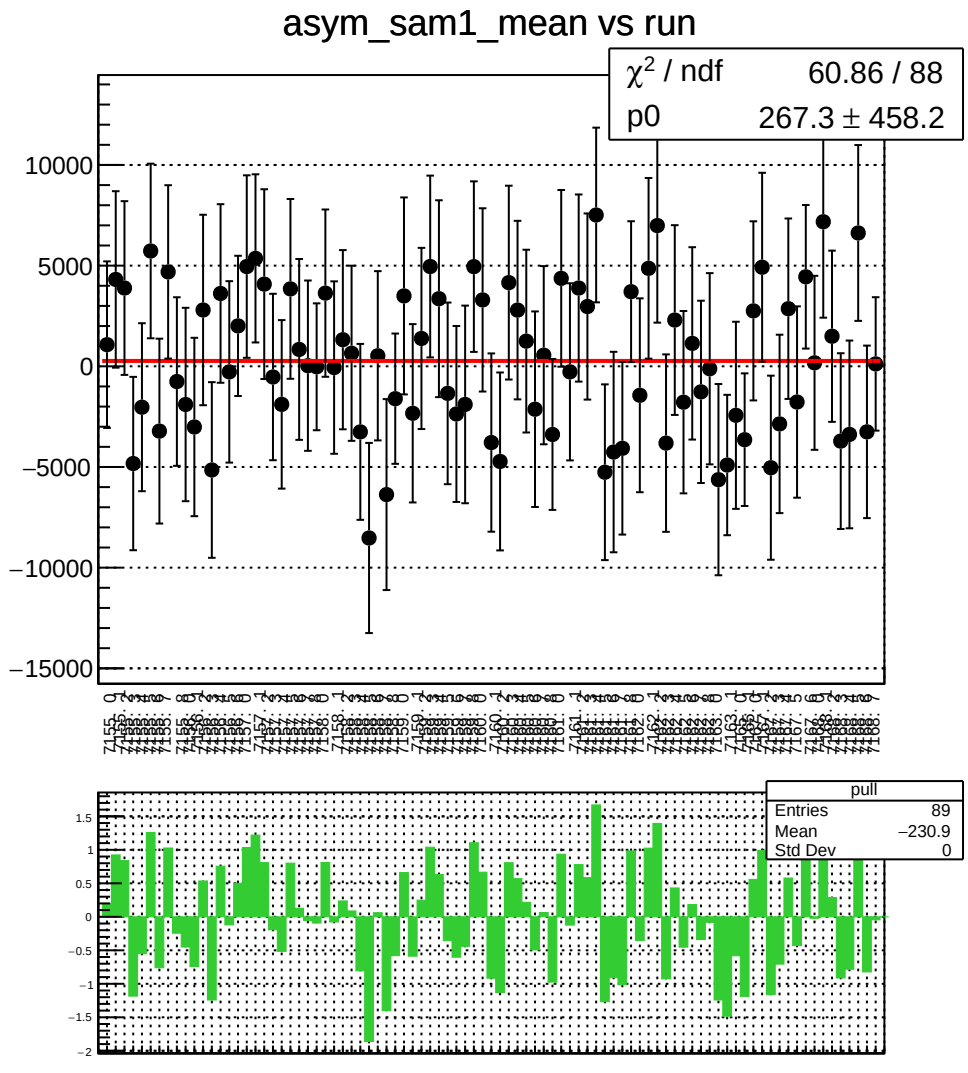

pull1D
Entries 89
Mean −0.009229
Std Dev 0.9636

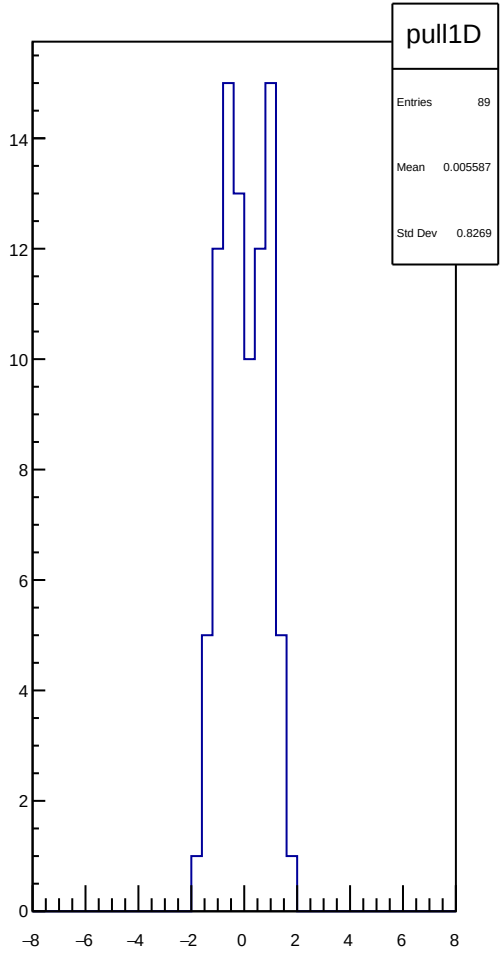

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 1104 / 88
p0 81.76 ± 0.06218
86
84
82
80
78

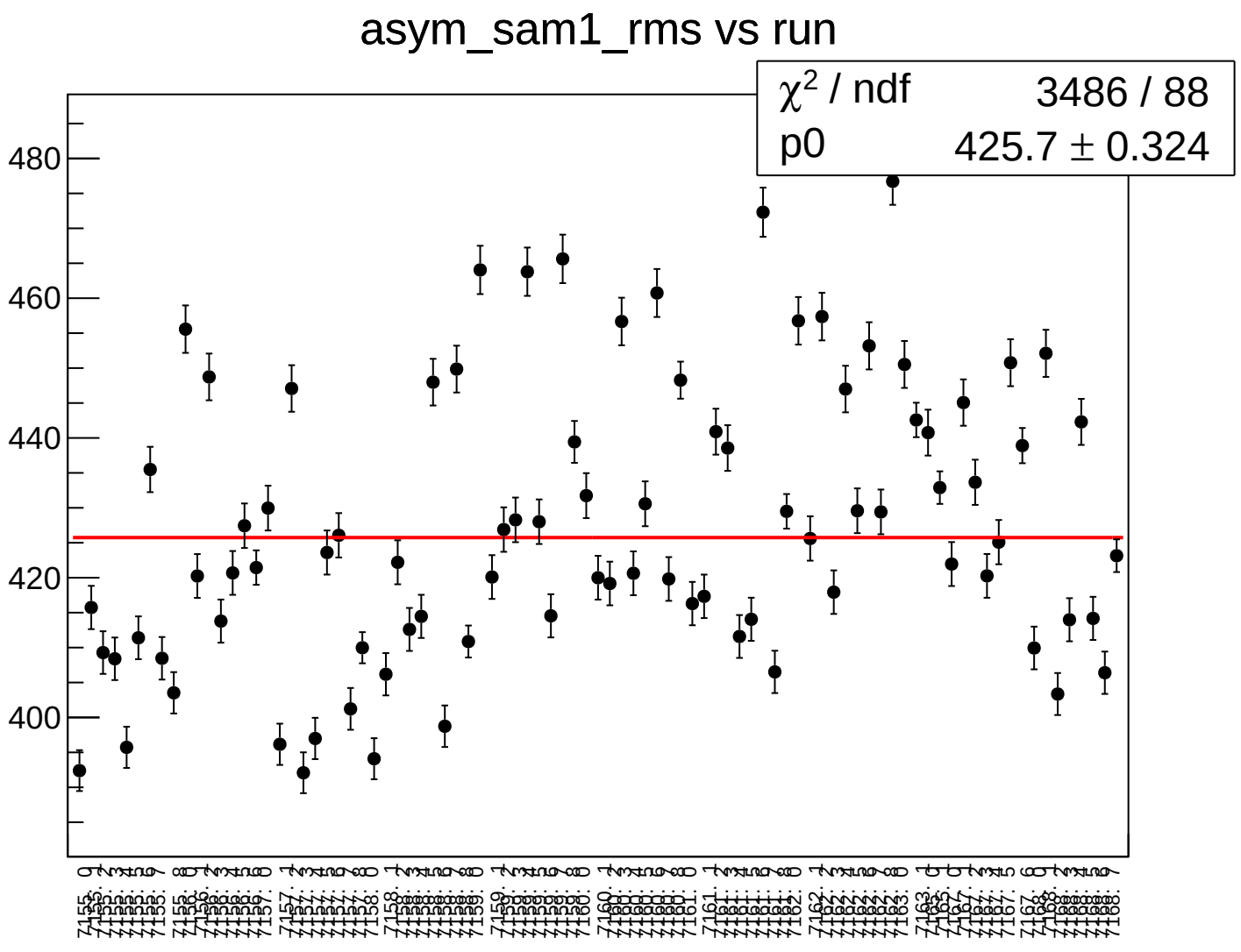

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 56.51 / 88
p0 −142.6 ± 466.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −188.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

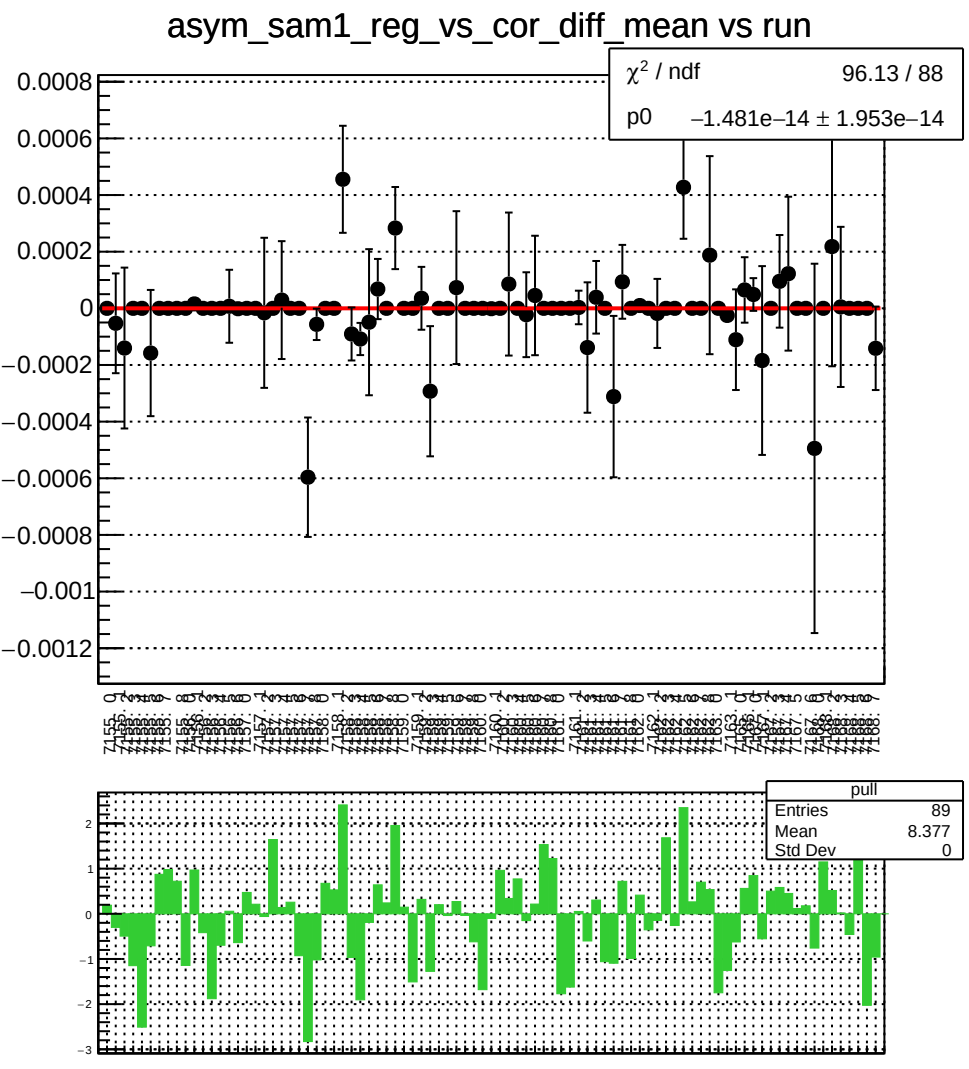

pull1D
Entries 89
Mean −0.00693
Std Dev 0.7968
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

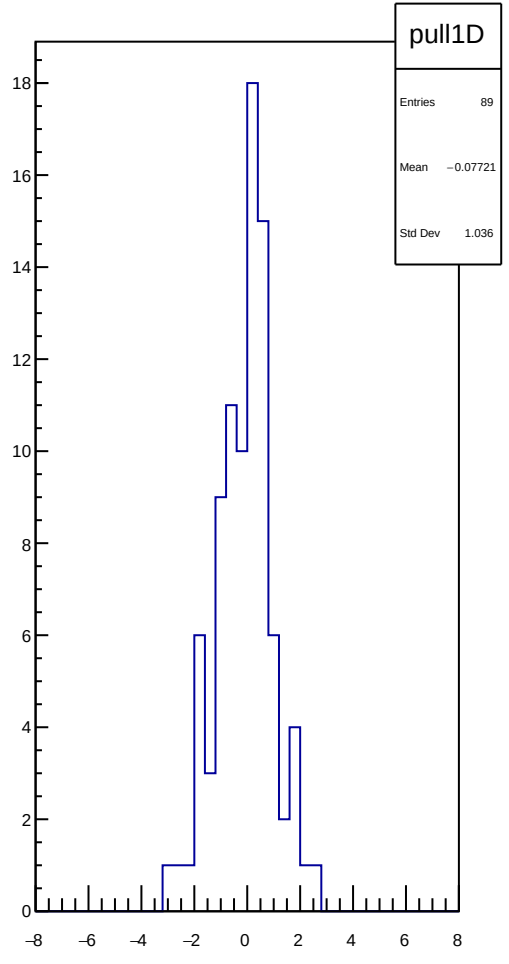

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 3342 / 88
p0 433.1 ± 0.3296
480
460
440
420
400

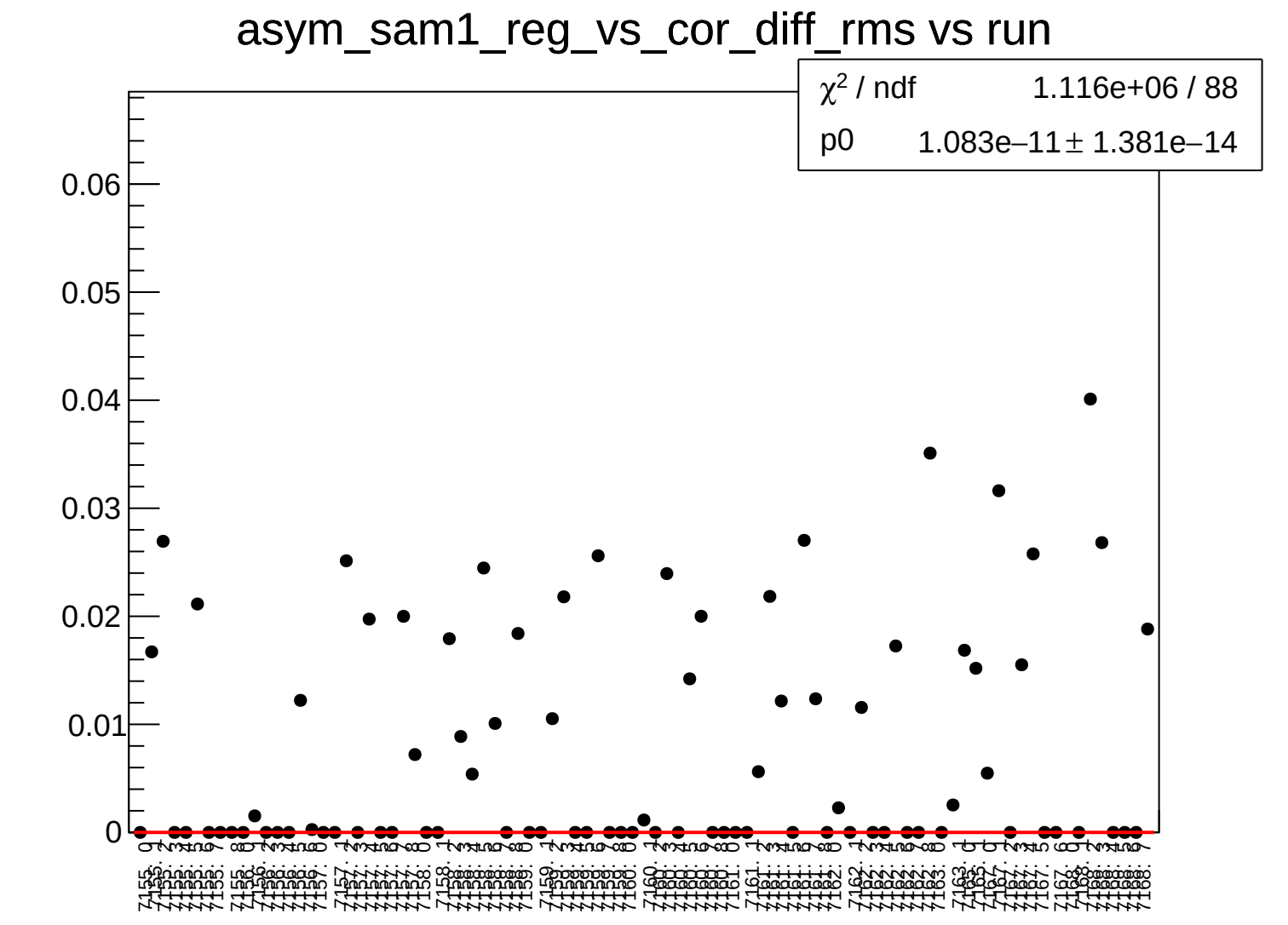

asym_sam1_mean vs run
χ² / ndf 60.86 / 88
p0 267.3 ± 458.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −230.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

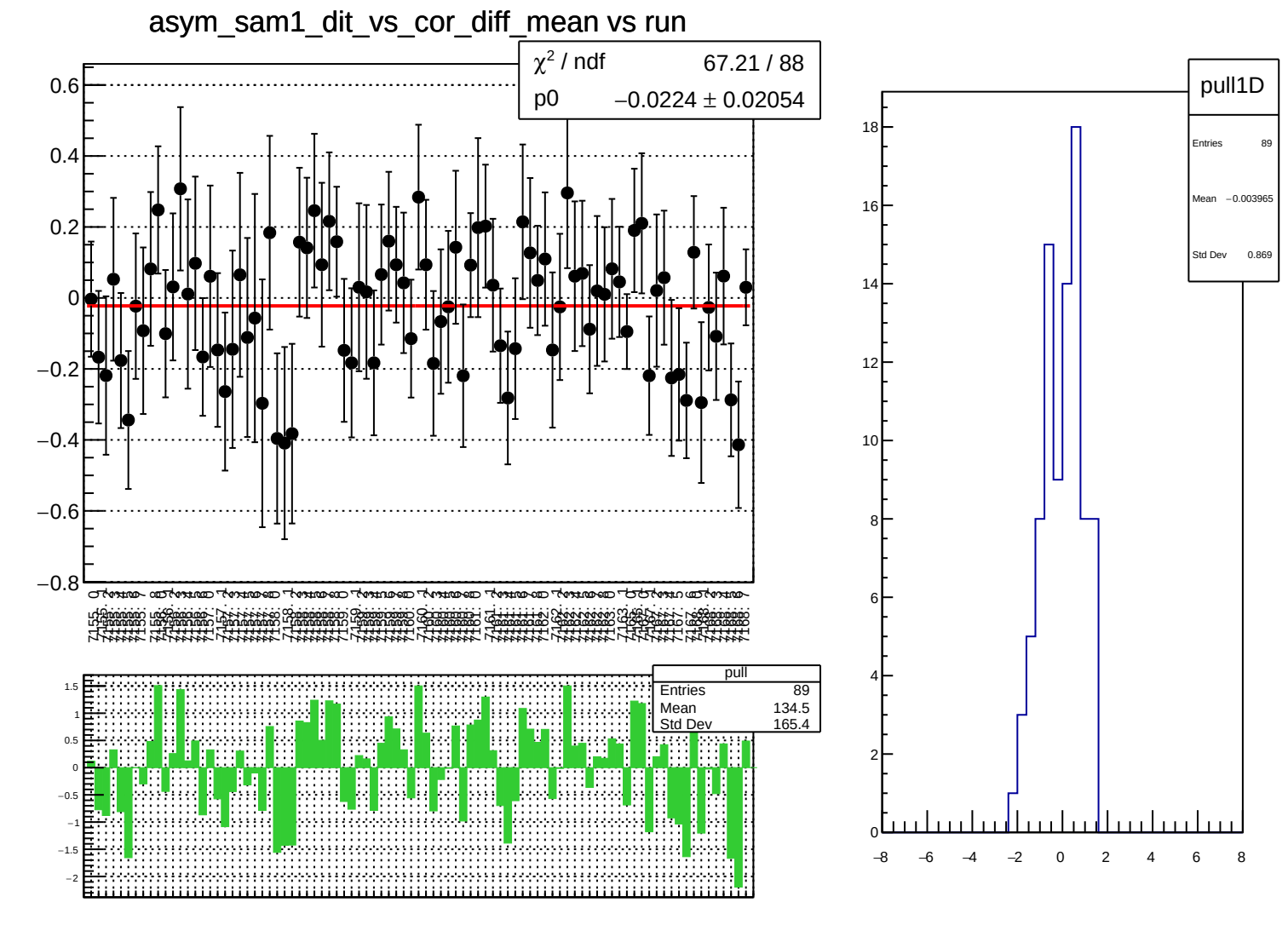

pull1D
Entries 89
Mean 0.005587
Std Dev 0.8269
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

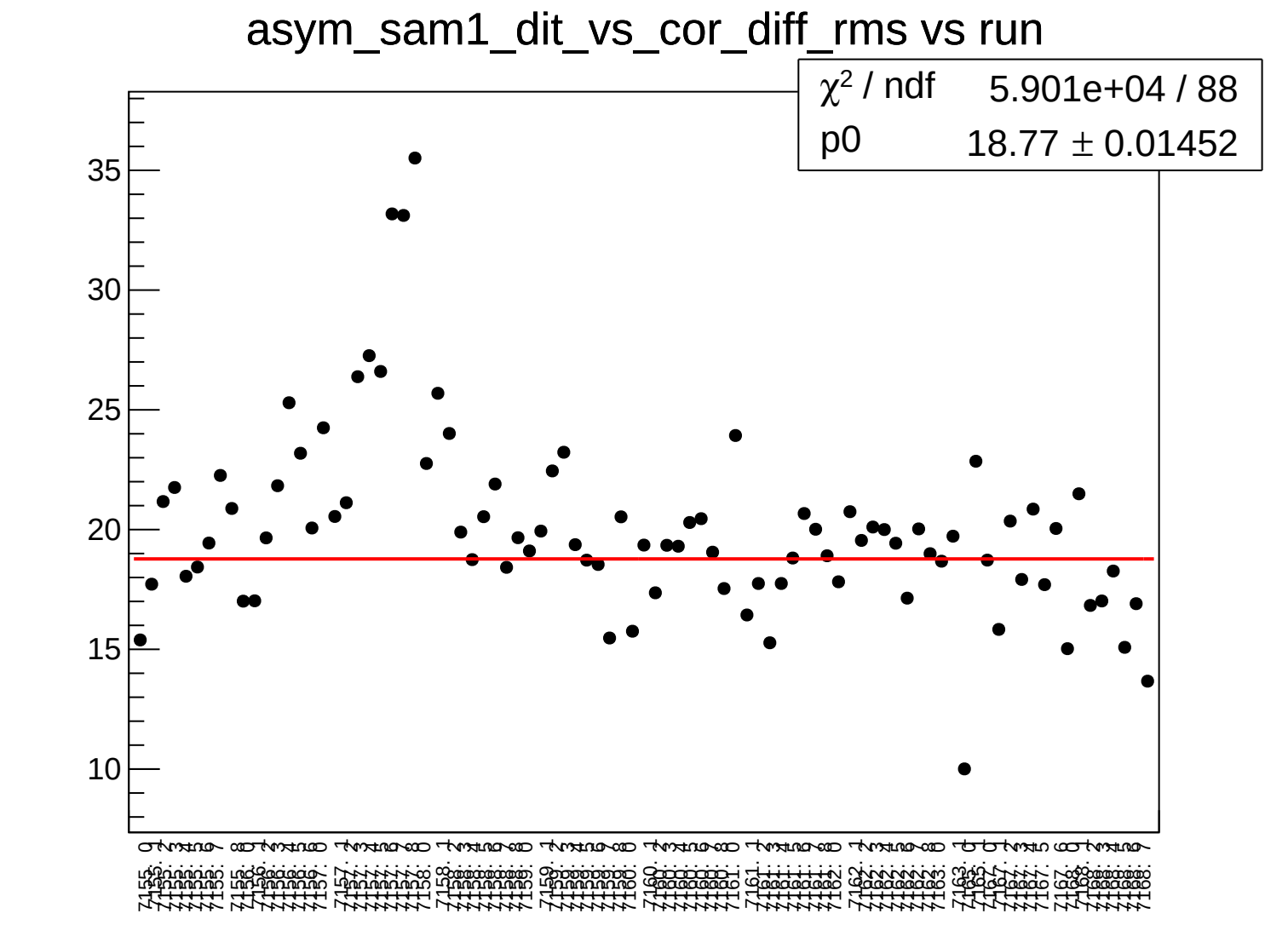

asym_sam1_rms vs run
χ² / ndf 3486 / 88
p0 425.7 ± 0.324
480
460
440
420
400

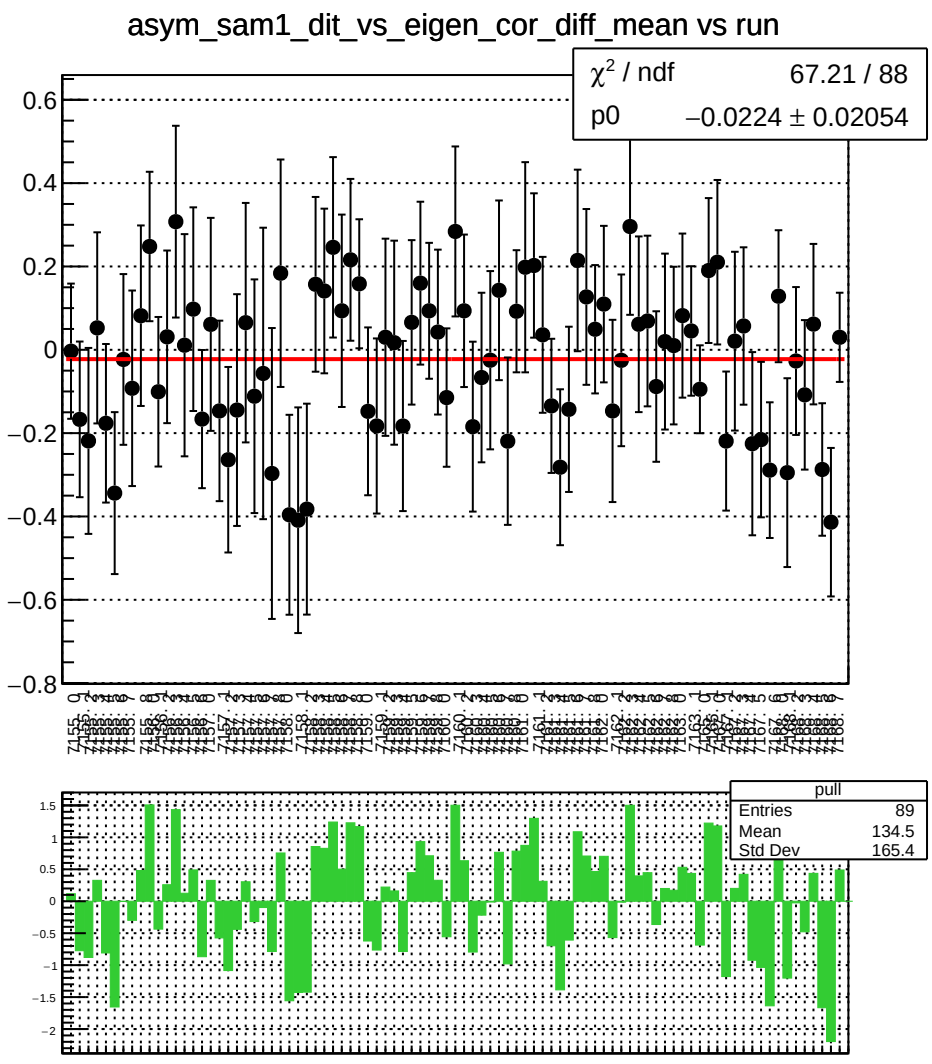

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 96.13 / 88
p0 −1.481e−14 ± 1.953e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 89
Mean 8.377
Std Dev 0
2
1
0
−1
−2
−3

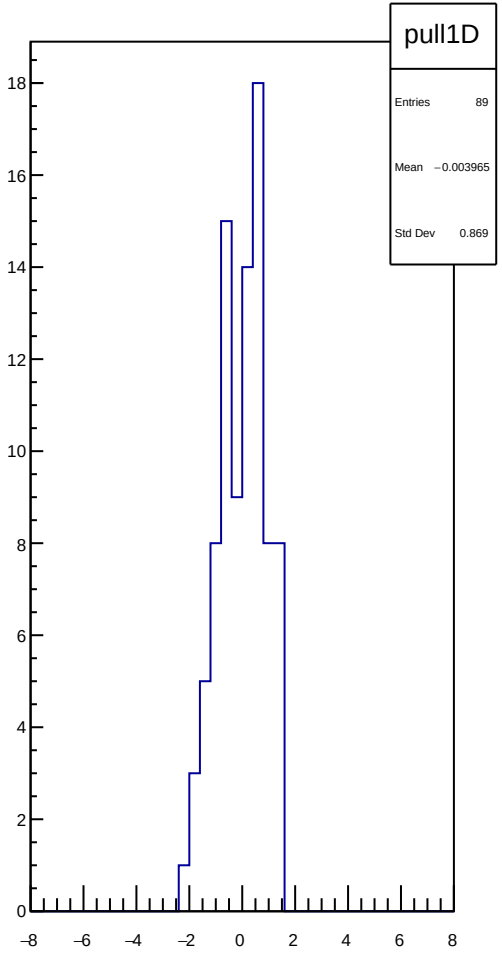

pull1D
Entries 89
Mean −0.07721
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

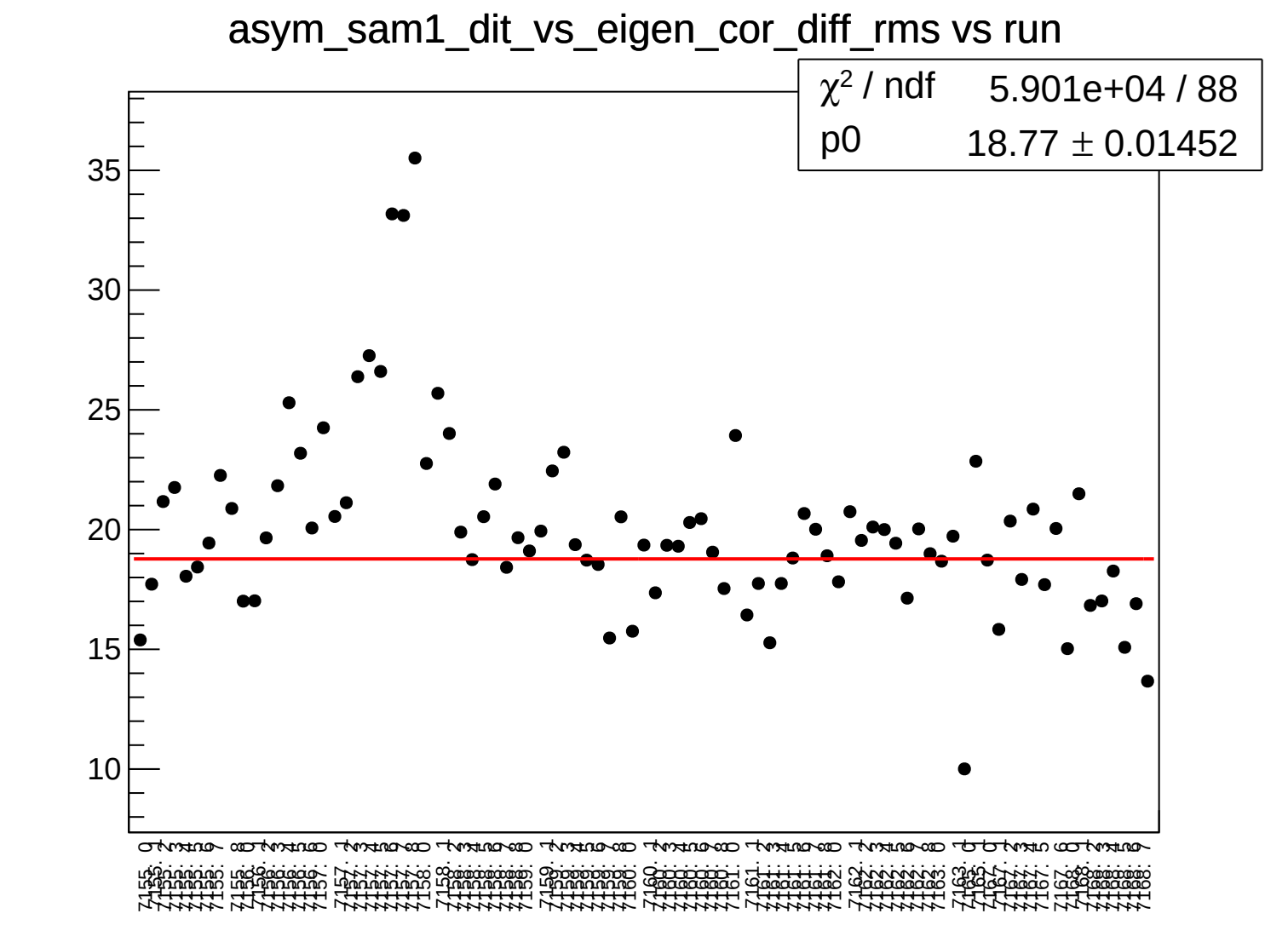

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.116e+06 / 88
p0 1.083e−11 ± 1.381e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

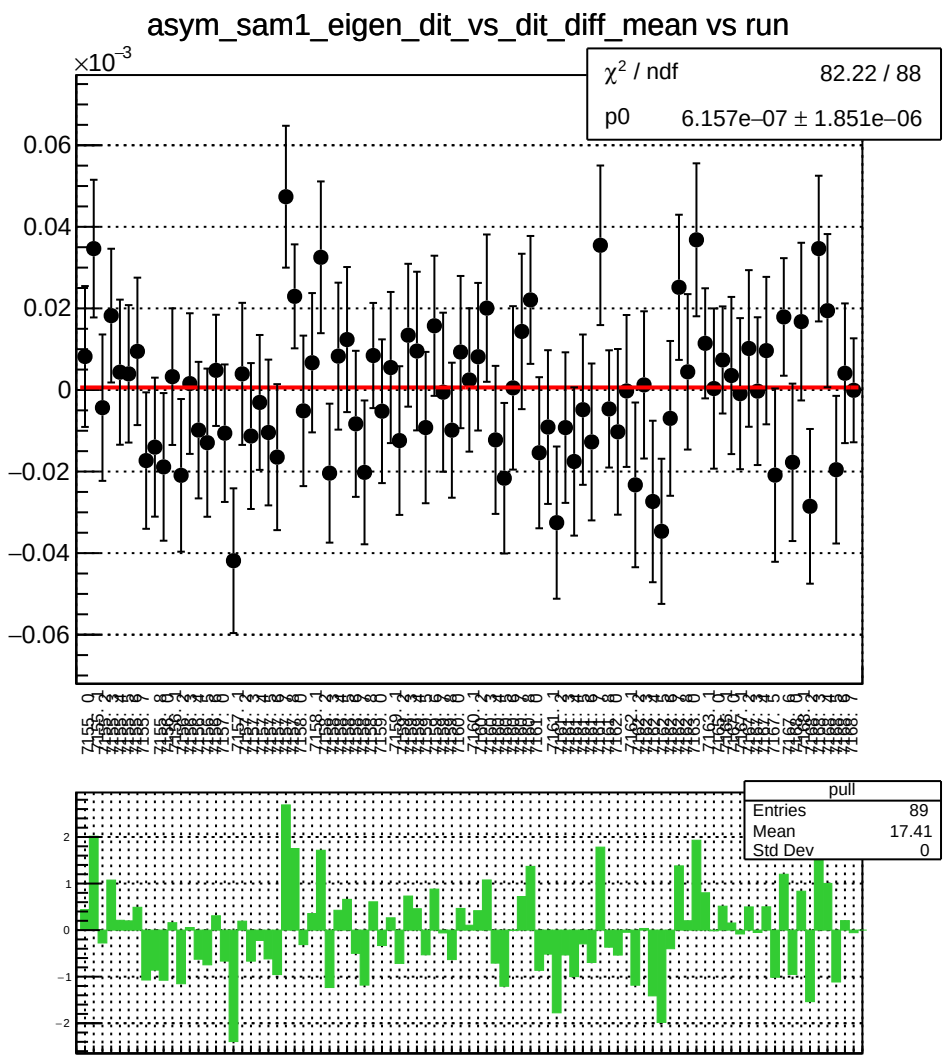

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 67.21 / 88
p0 −0.0224 ± 0.02054
pull
Entries 89
Mean 134.5
Std Dev 165.4
pull1D
Entries 89
Mean −0.003965
Std Dev 0.869

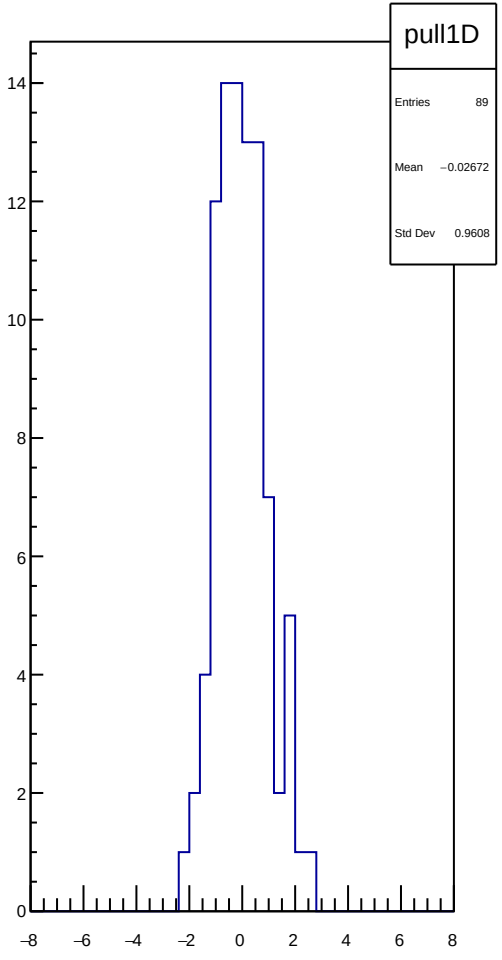

asym_sam1_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.901e+04 / 88
p0 18.77 ± 0.01452
35
30
25
20
15
10

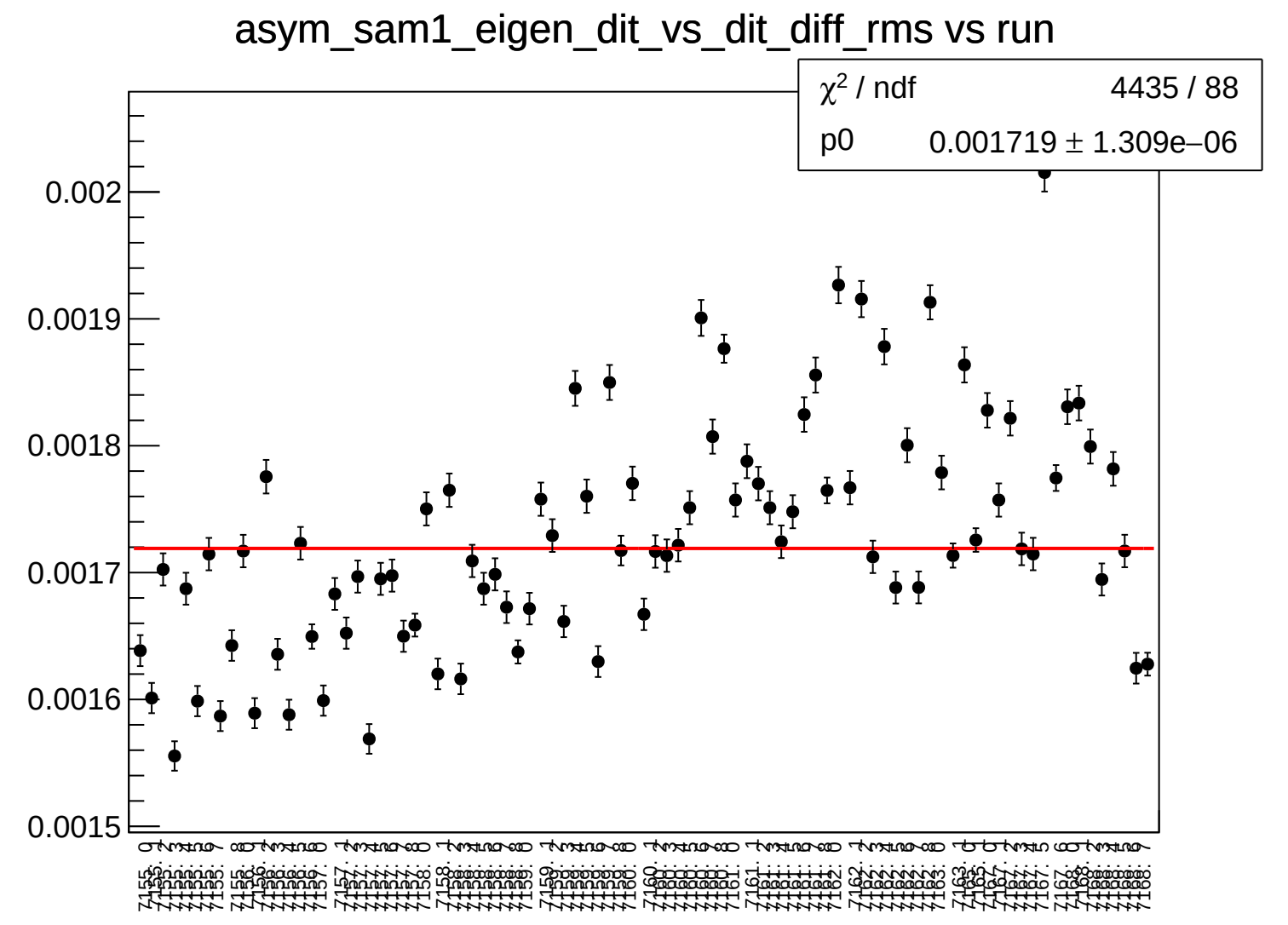

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.21 / 88
p0 −0.0224 ± 0.02054
pull
Entries 89
Mean 134.5
Std Dev 165.4

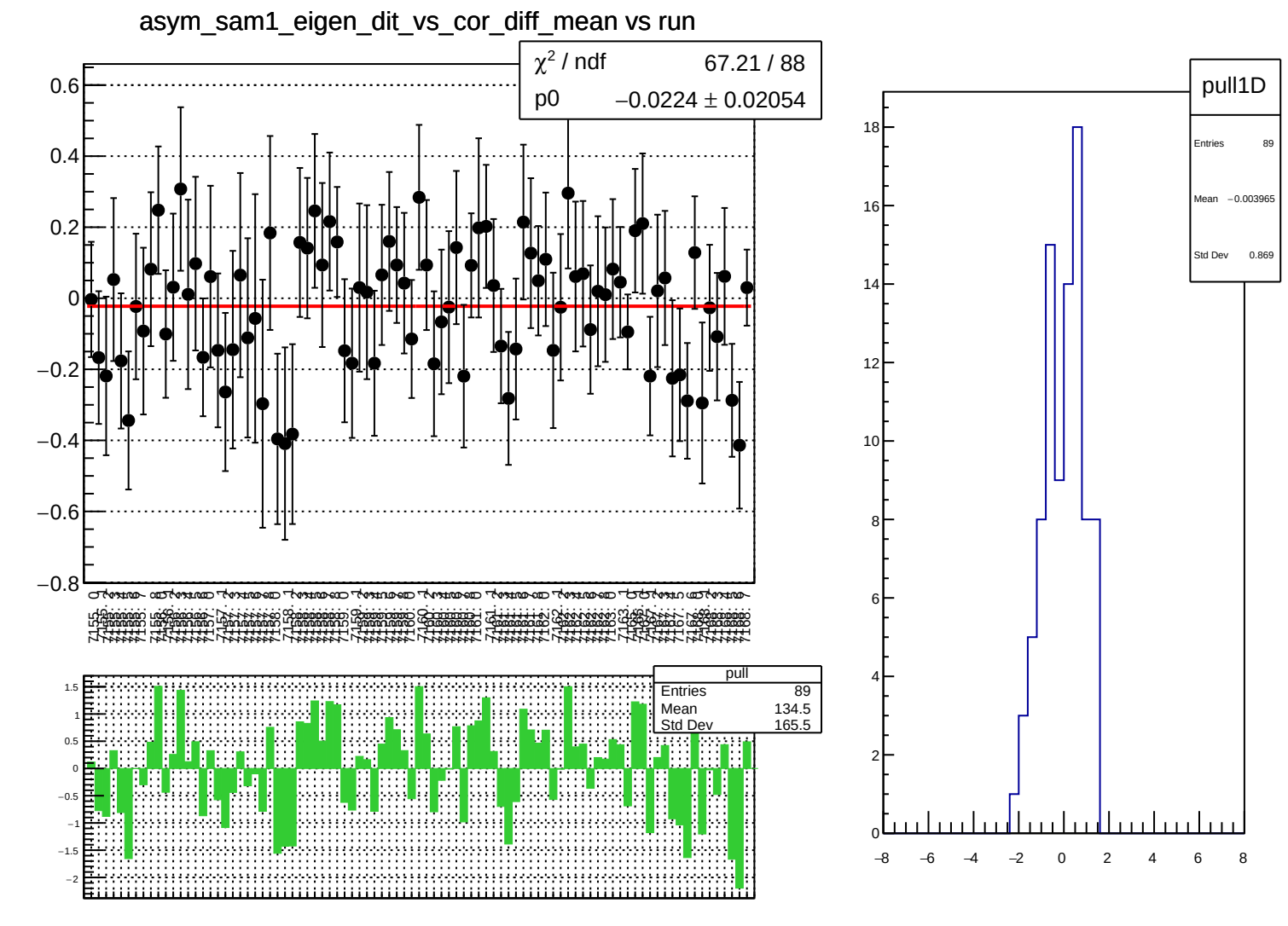

pull1D
Entries 89
Mean −0.003965
Std Dev 0.869

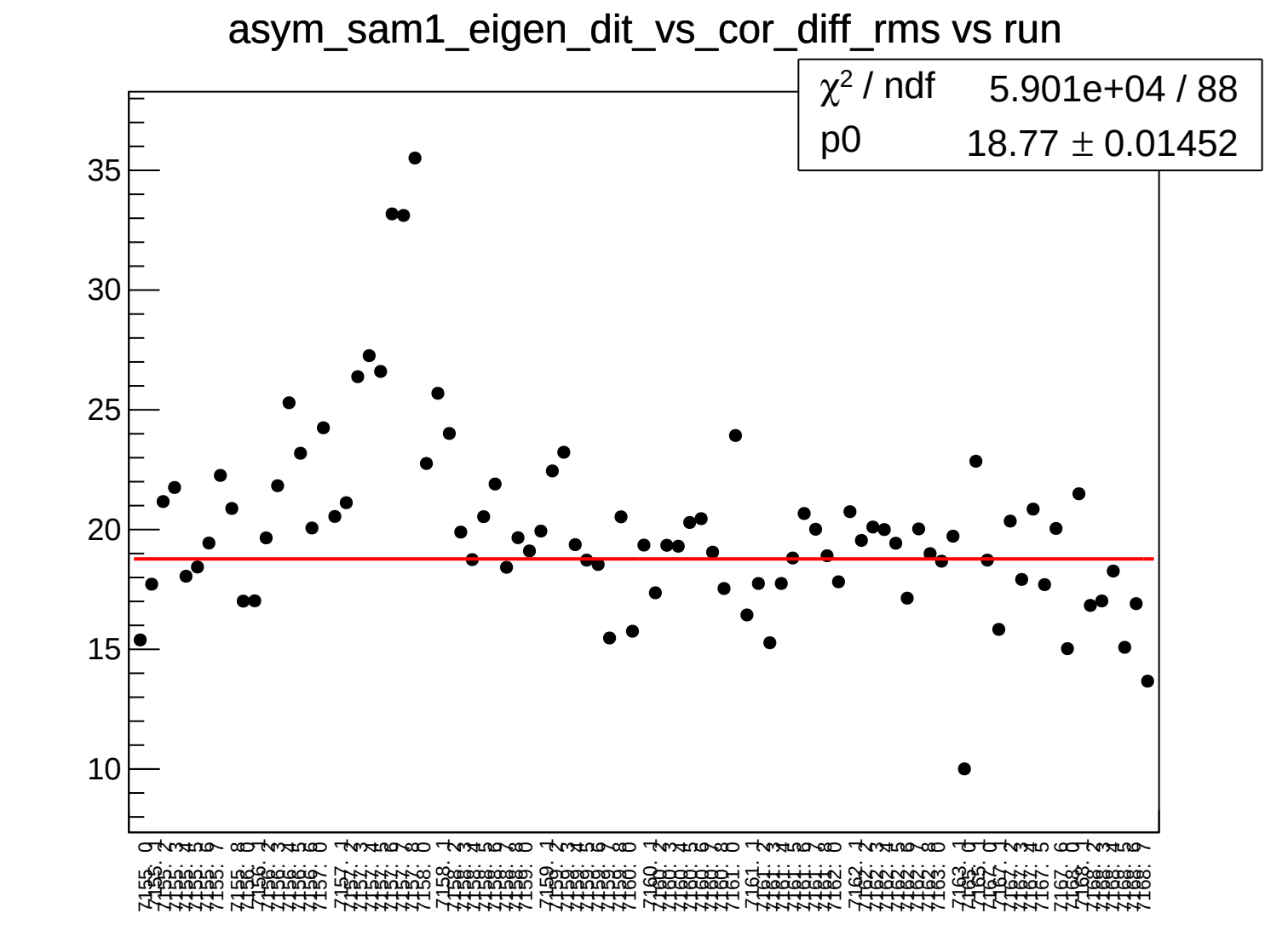

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.901e+04 / 88
p0 18.77 ± 0.01452
35
30
25
20
15
10

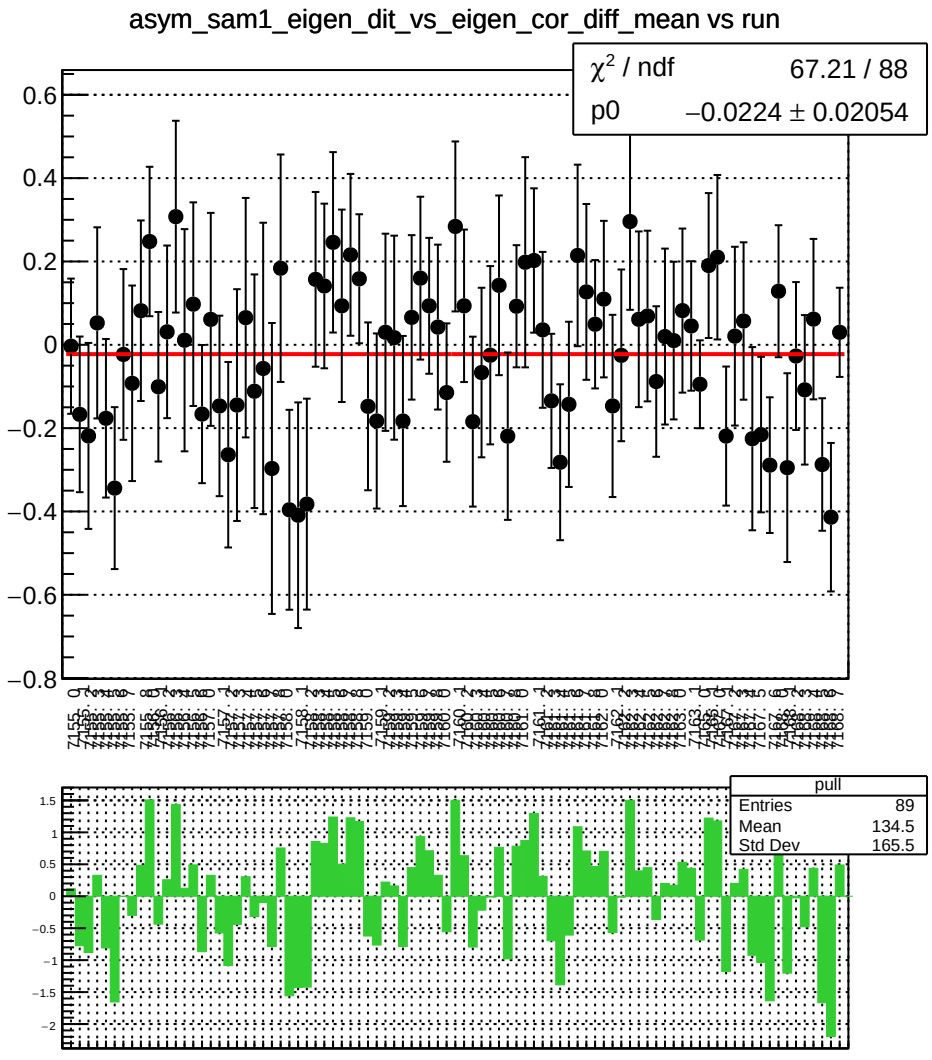

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.22 / 88
p0 6.157e−07 ± 1.851e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 17.41
Std Dev 0
2
1
0
−1
−2

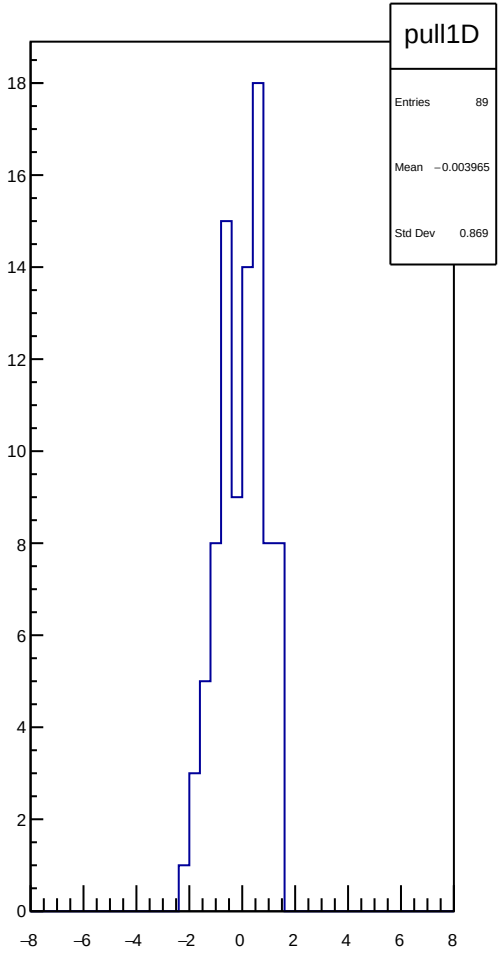

pull1D
Entries 89
Mean −0.02672
Std Dev 0.9608
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

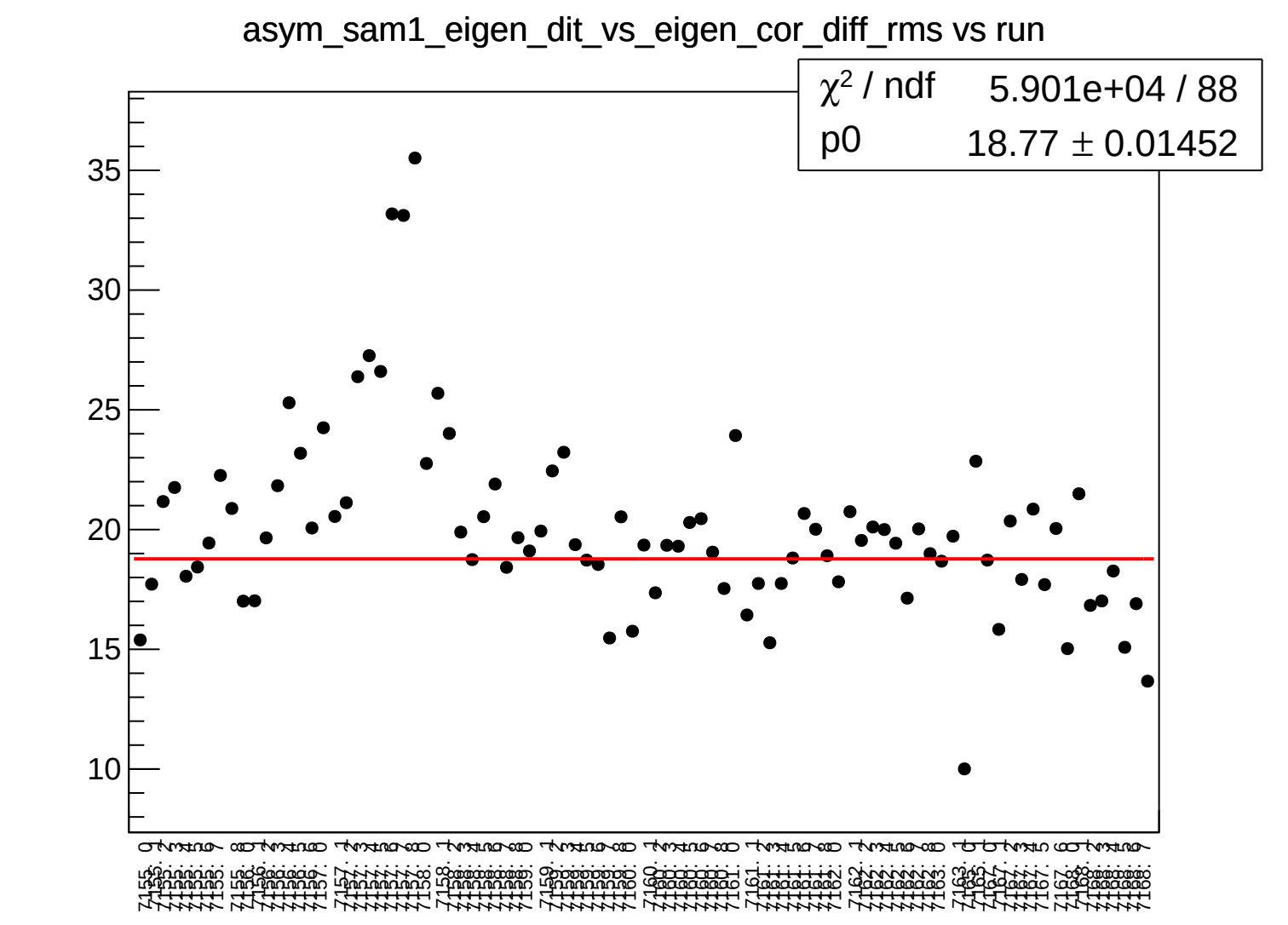

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4435 / 88
p0 0.001719 ± 1.309e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

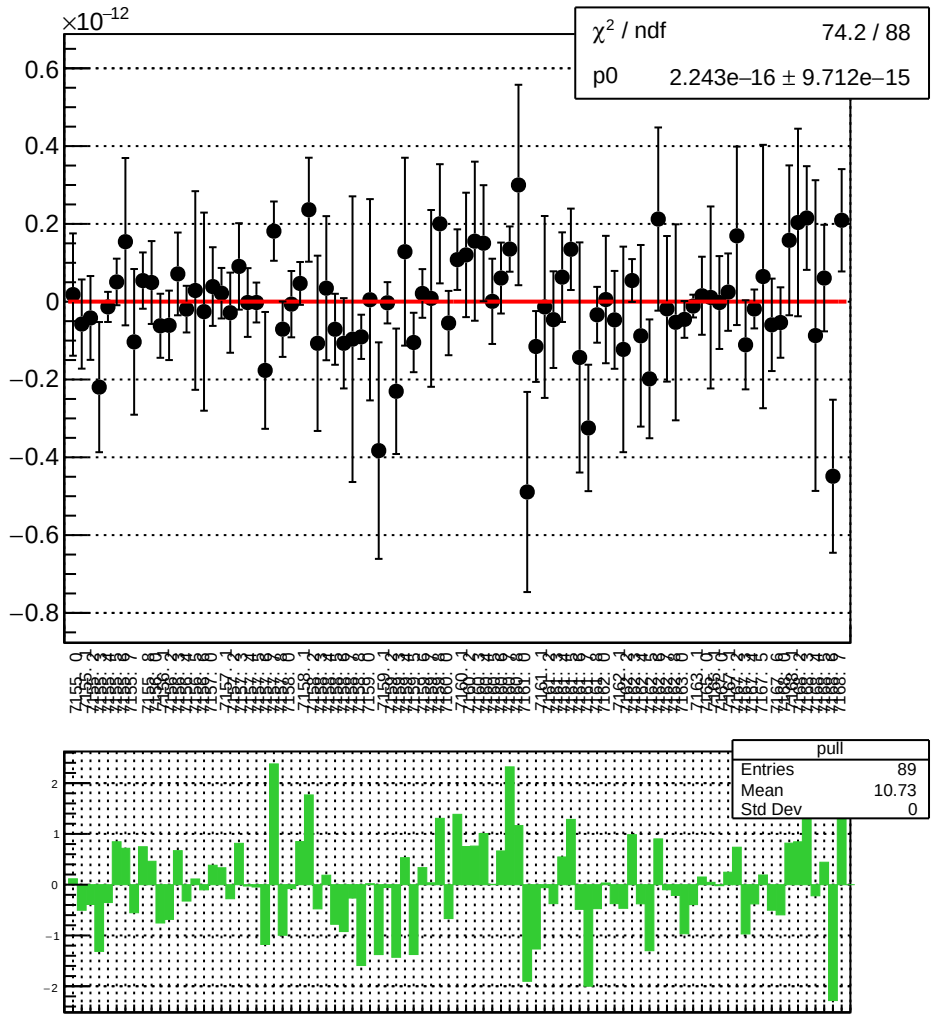

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 67.21 / 88
p0 −0.0224 ± 0.02054
pull
Entries 89
Mean 134.5
Std Dev 165.5
pull1D
Entries 89
Mean −0.003965
Std Dev 0.869

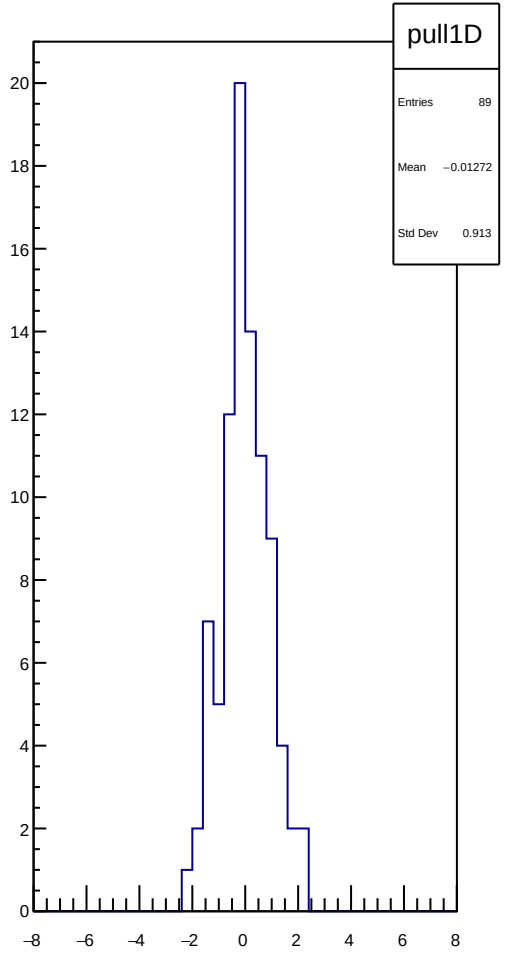

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.901e+04 / 88
p0 18.77 ± 0.01452
35
30
25
20
15
10

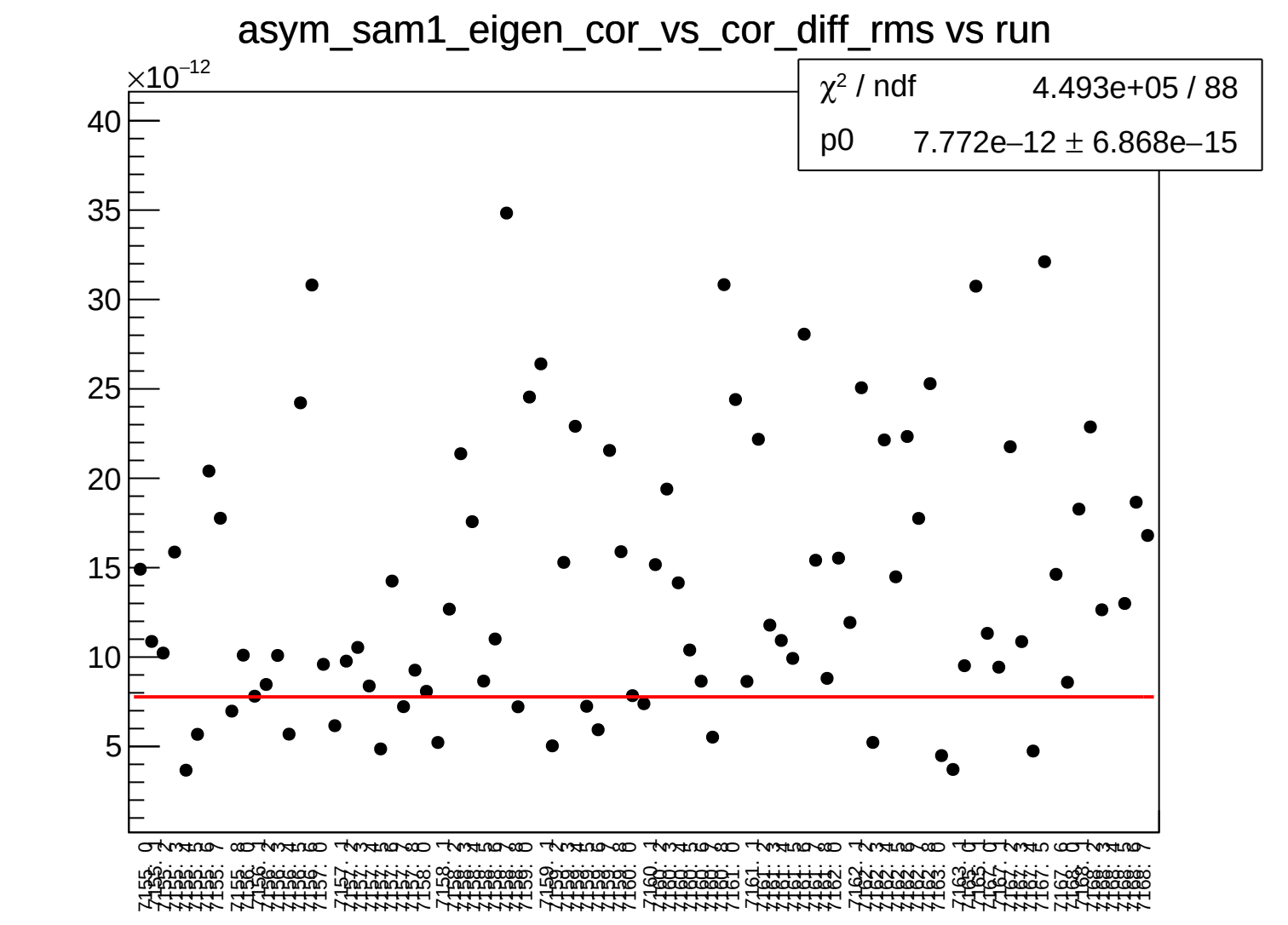

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 67.21 / 88
p0 −0.0224 ± 0.02054
pull
Entries 89
Mean 134.5
Std Dev 165.5

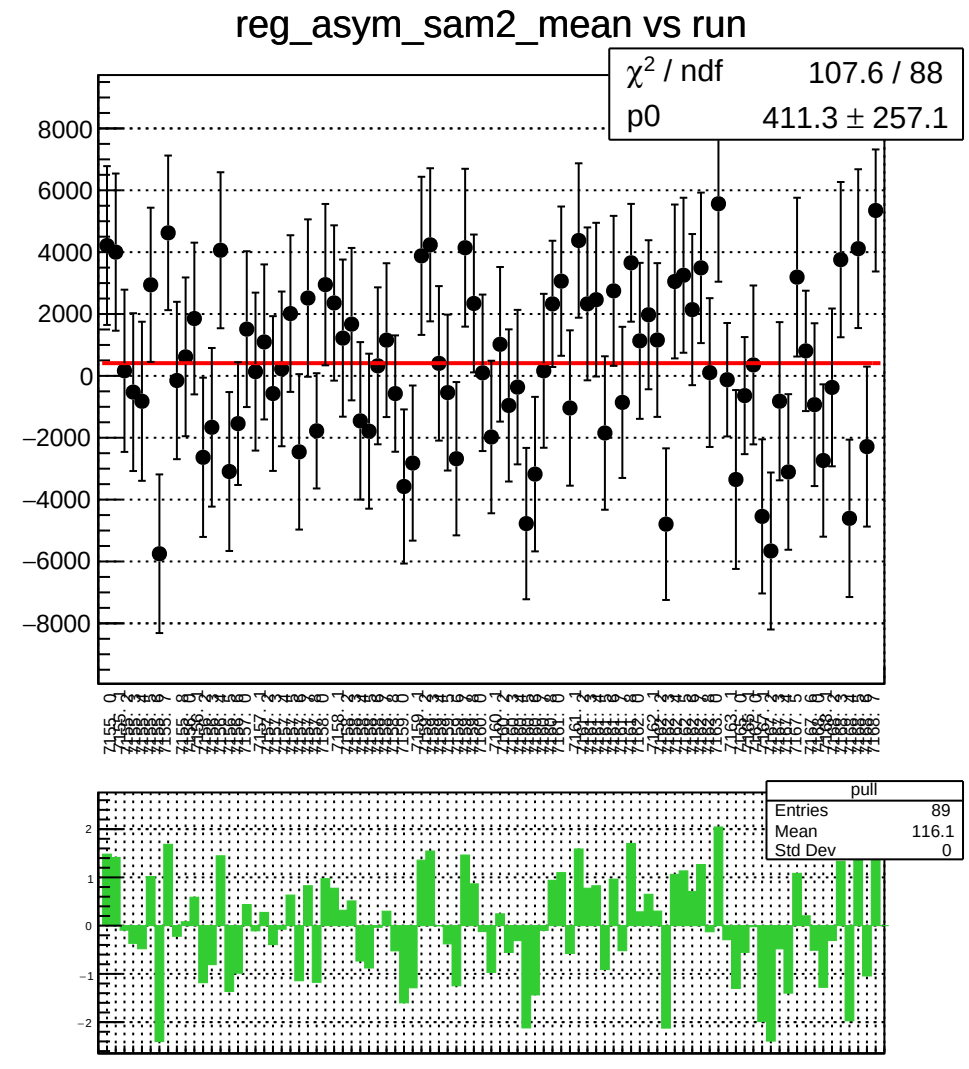

pull1D
Entries 89
Mean −0.003965
Std Dev 0.869

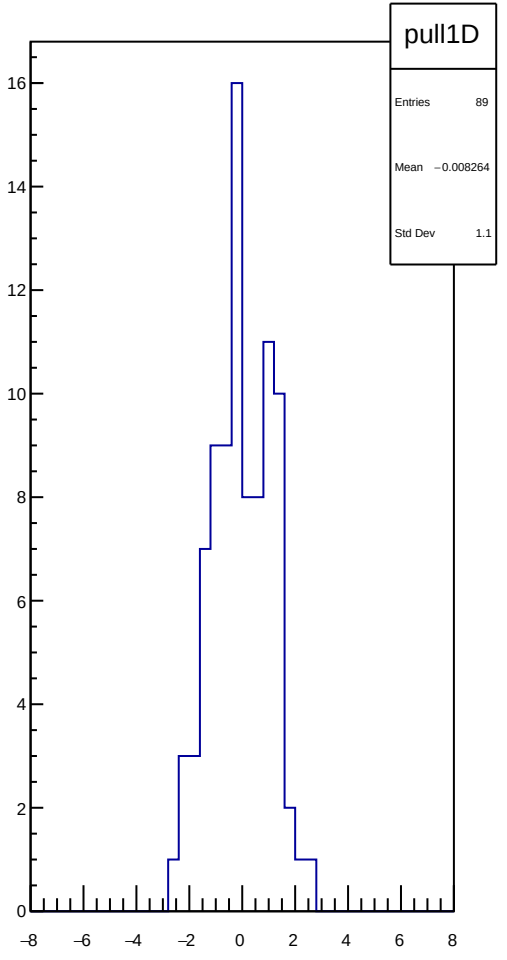

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.901e+04 / 88
p0 18.77 ± 0.01452
35
30
25
20
15
10

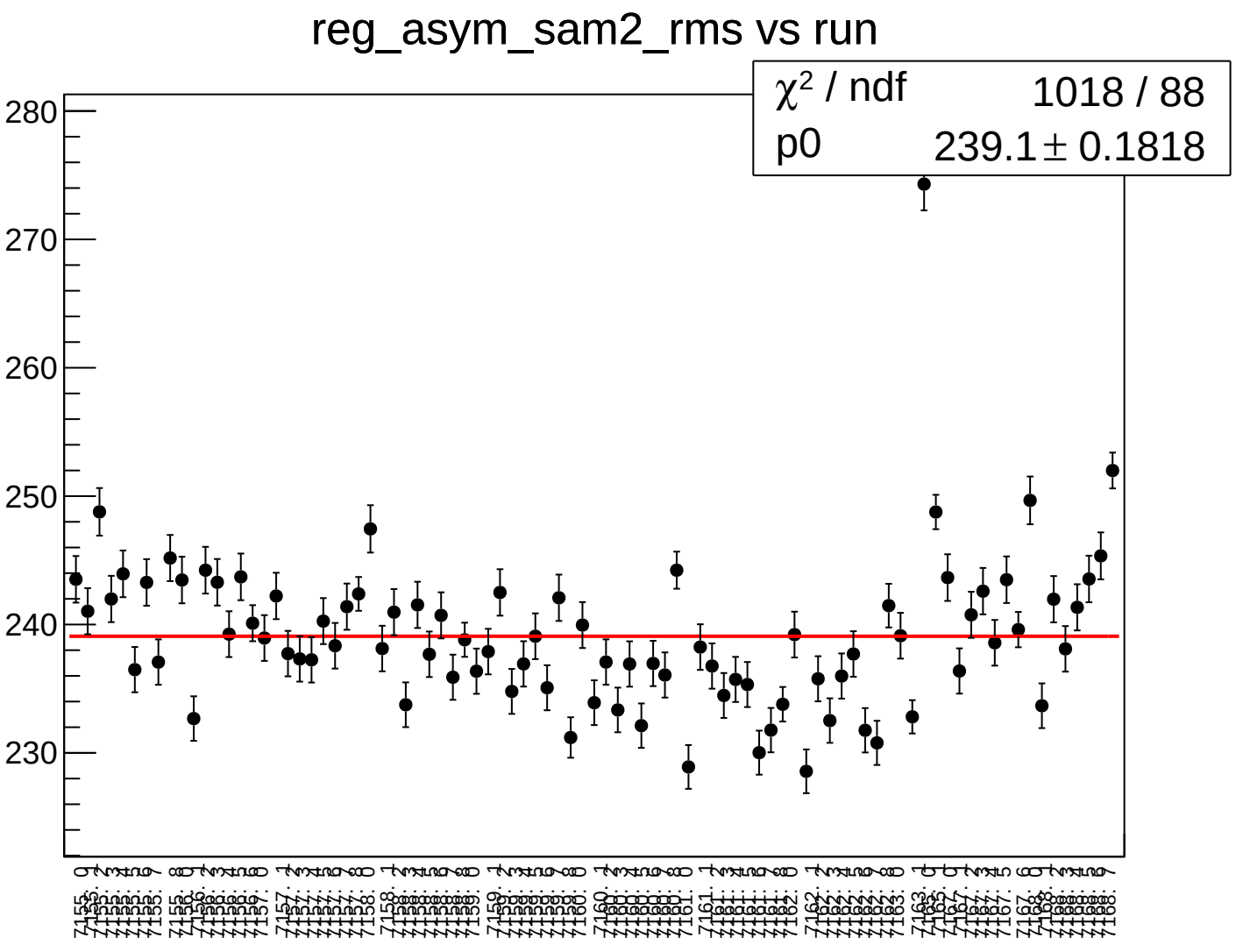

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.2 / 88
p0 2.243e−16 ± 9.712e−15
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 89
Mean 10.73
Std Dev 0
2
1
0
−1
−2

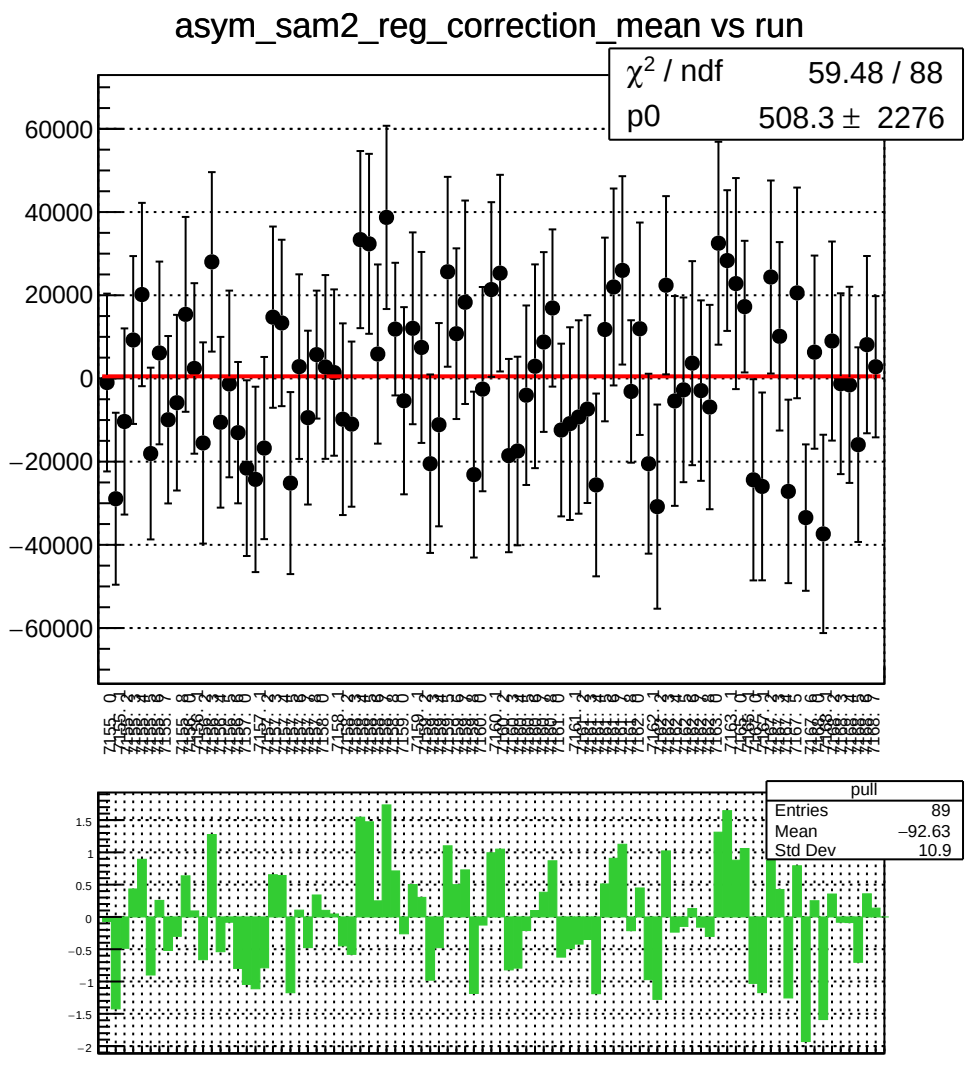

pull1D
Entries 89
Mean −0.01272
Std Dev 0.913
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

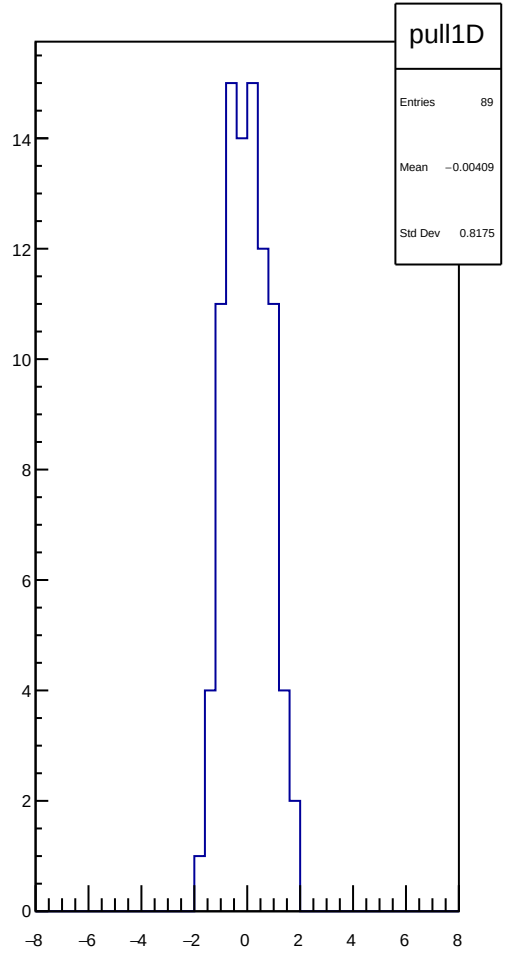

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.493e+05 / 88
p0 7.772e−12 ± 6.868e−15
40
35
30
25
20
15
10
5

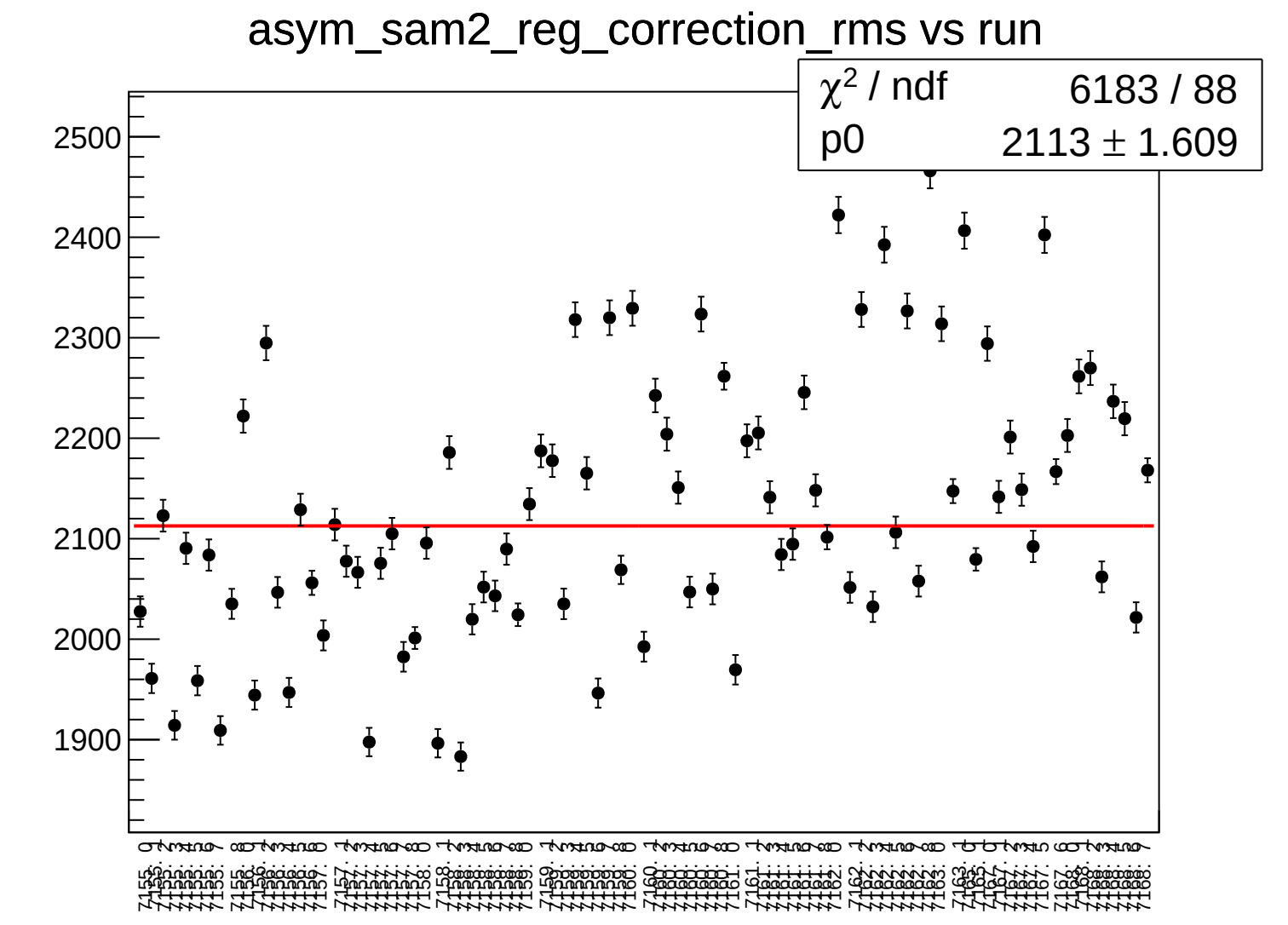

reg_asym_sam2_mean vs run
χ² / ndf 107.6 / 88
p0 411.3 ± 257.1
pull
Entries 89
Mean 116.1
Std Dev 0

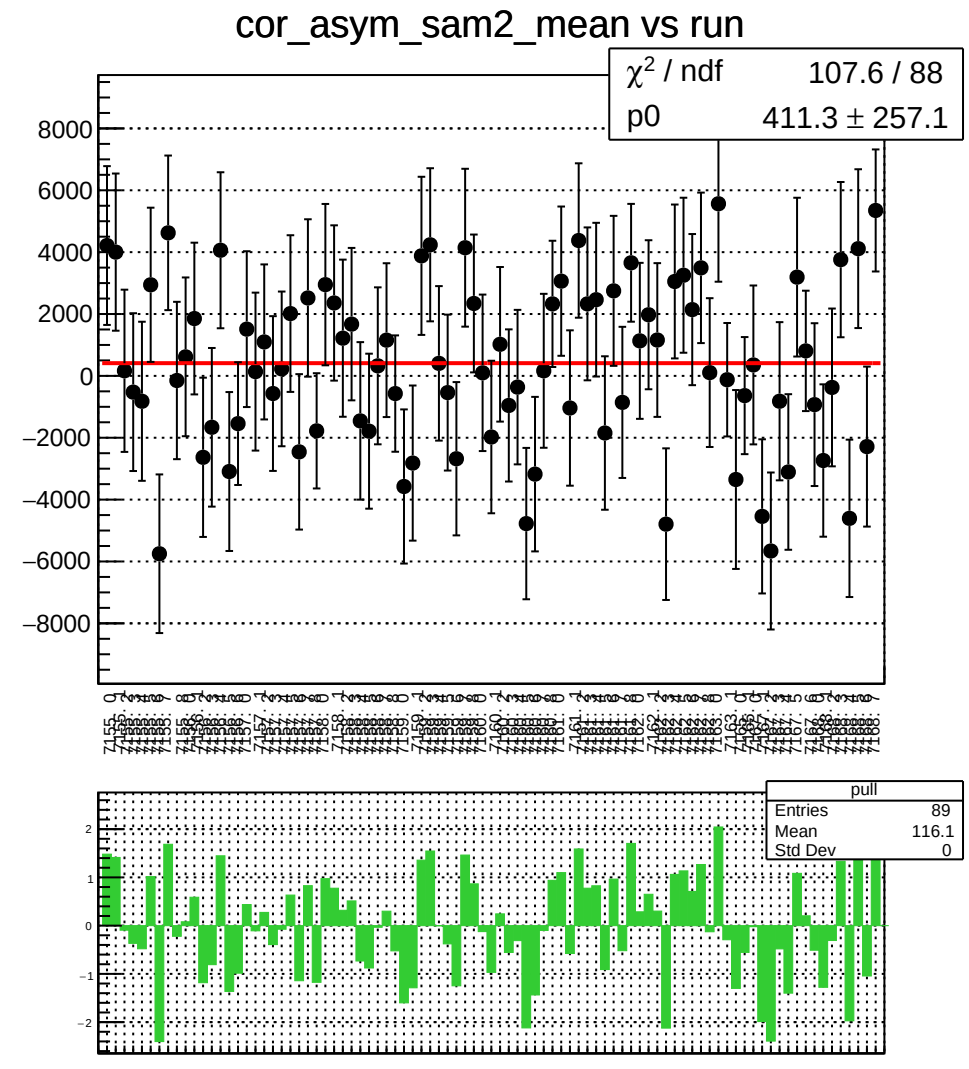

pull1D
Entries 89
Mean −0.008264
Std Dev 1.1

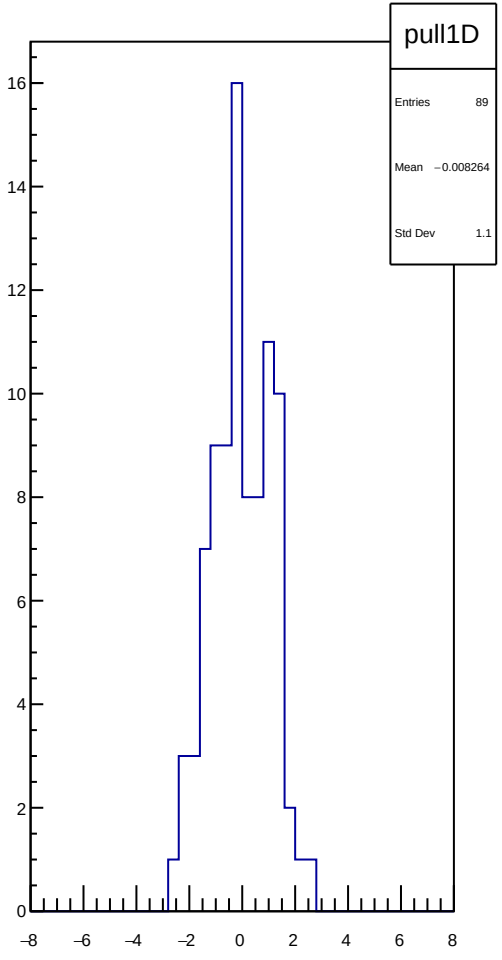

reg_asym_sam2_rms vs run
χ² / ndf 1018 / 88
p0 239.1 ± 0.1818
280
270
260
250
240
230

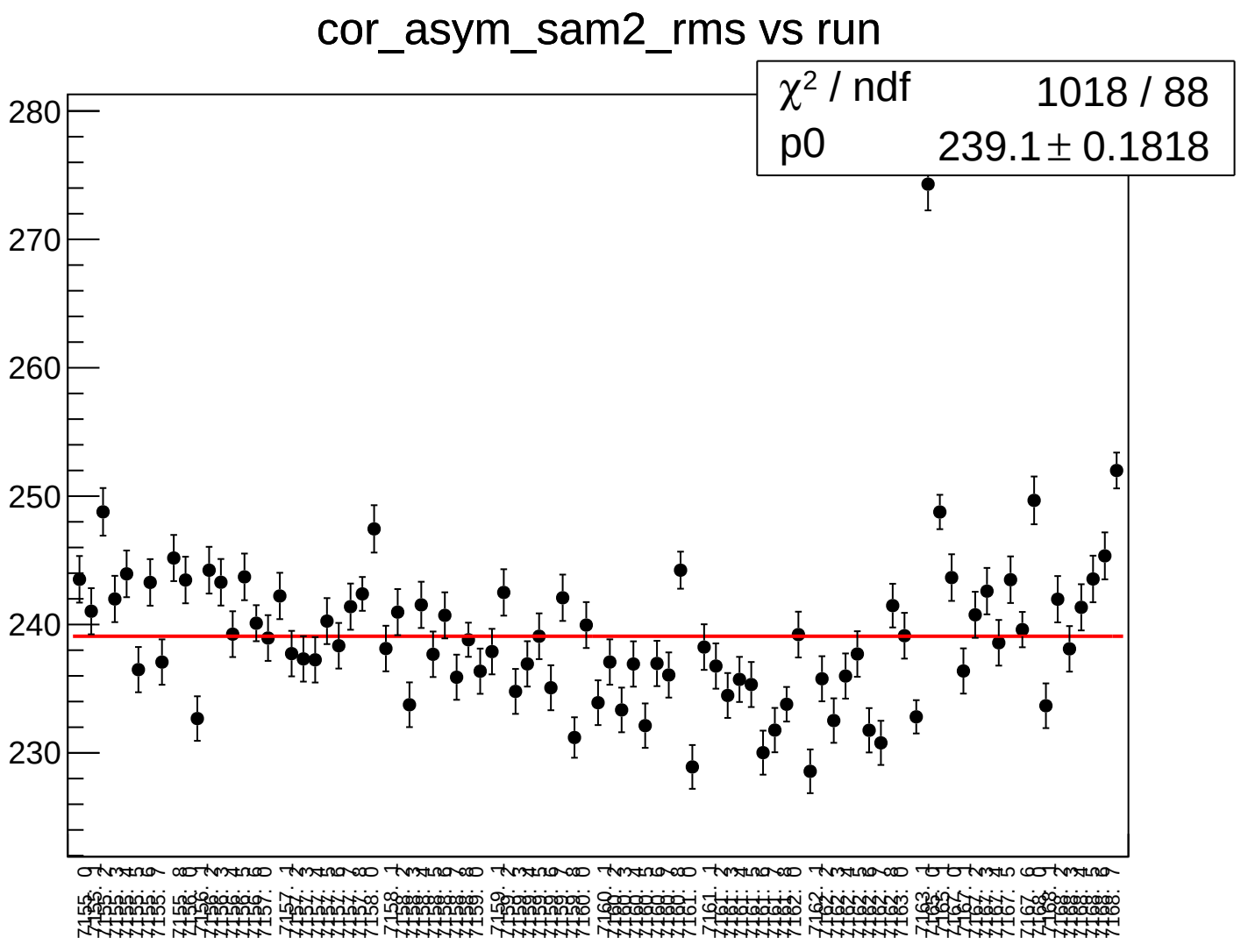

asym_sam2_reg_correction_mean vs run
χ² / ndf 59.48 / 88
p0 508.3 ± 2276
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −92.63
Std Dev 10.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

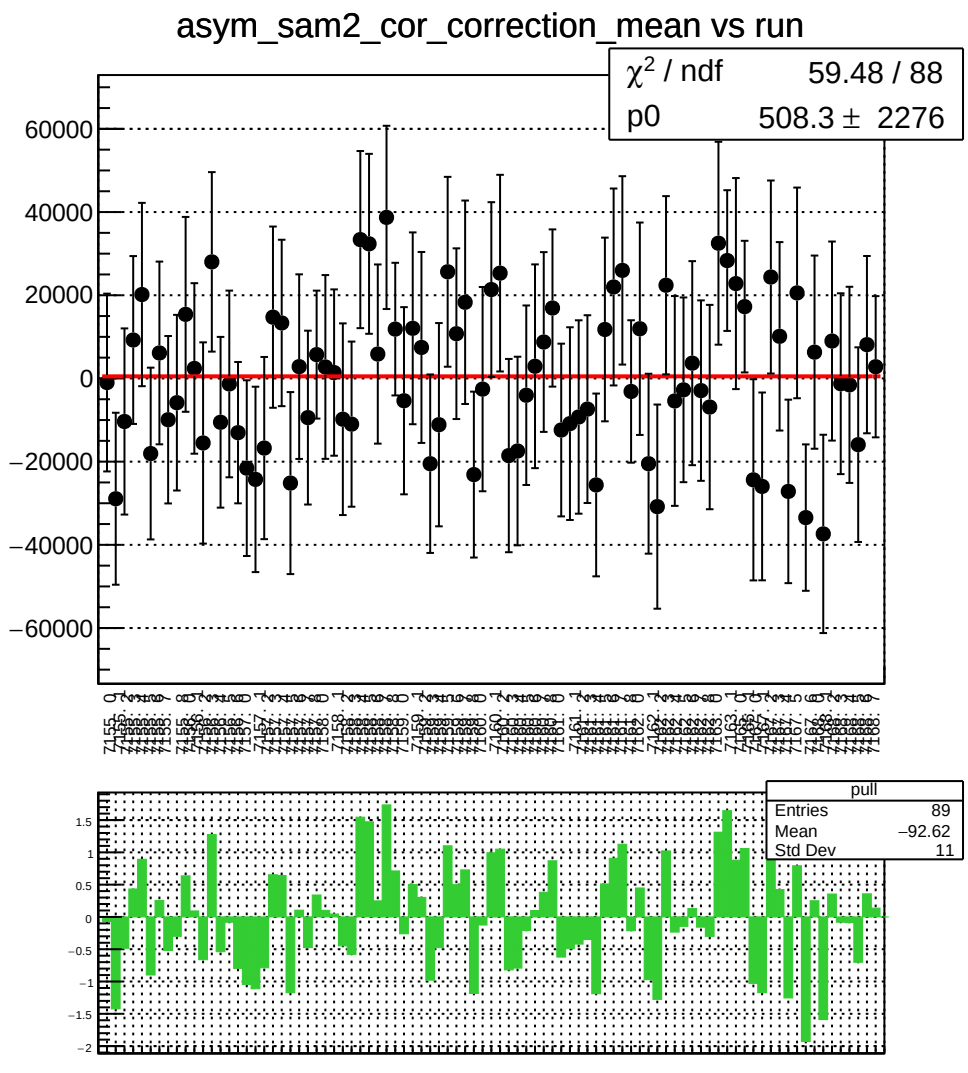

pull1D
Entries 89
Mean −0.00409
Std Dev 0.8175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

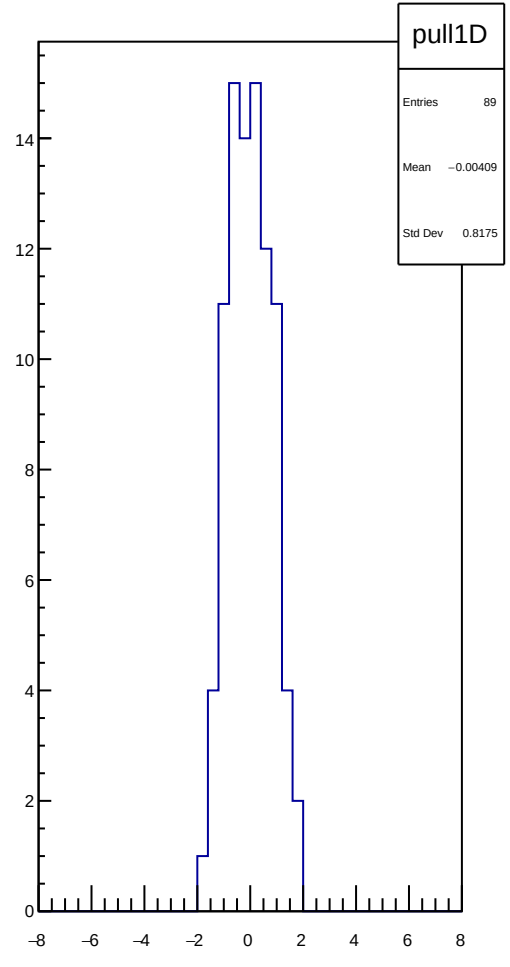

asym_sam2_reg_correction_rms vs run
χ² / ndf 6183 / 88
p0 2113 ± 1.609
2500
2400
2300
2200
2100
2000
1900

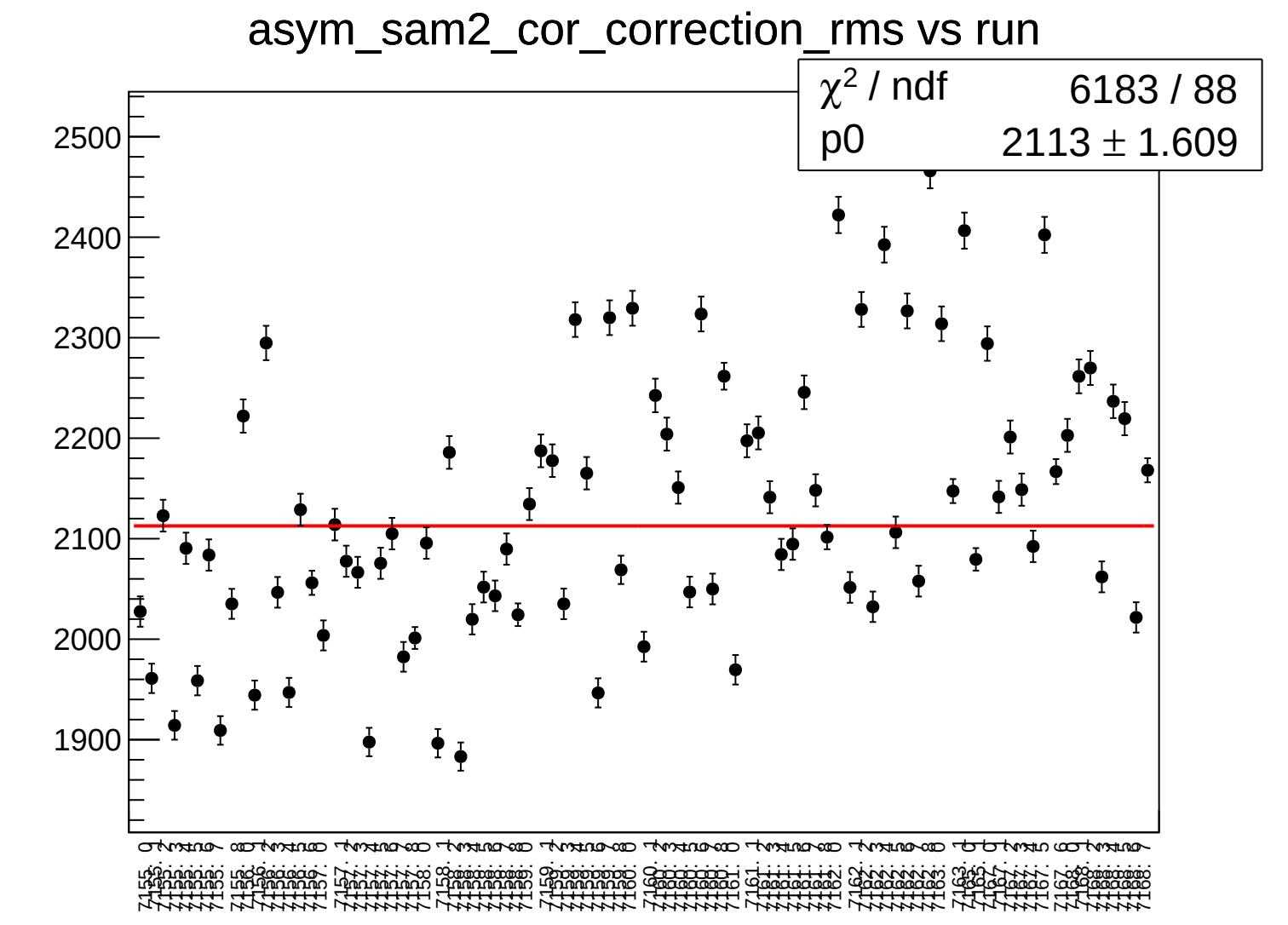

cor_asym_sam2_mean vs run
χ² / ndf 107.6 / 88
p0 411.3 ± 257.1
pull
Entries 89
Mean 116.1
Std Dev 0

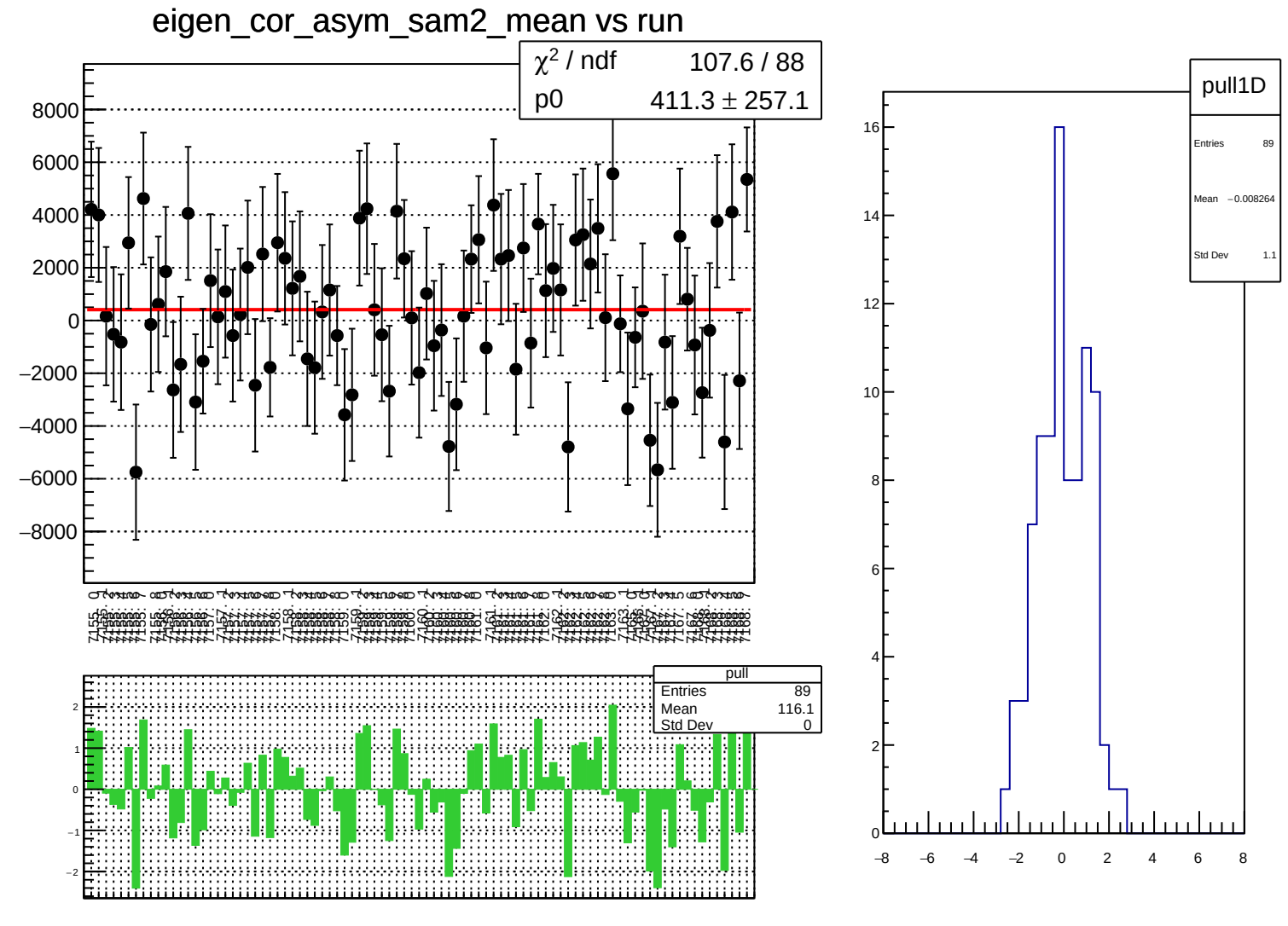

pull1D
Entries 89
Mean −0.008264
Std Dev 1.1

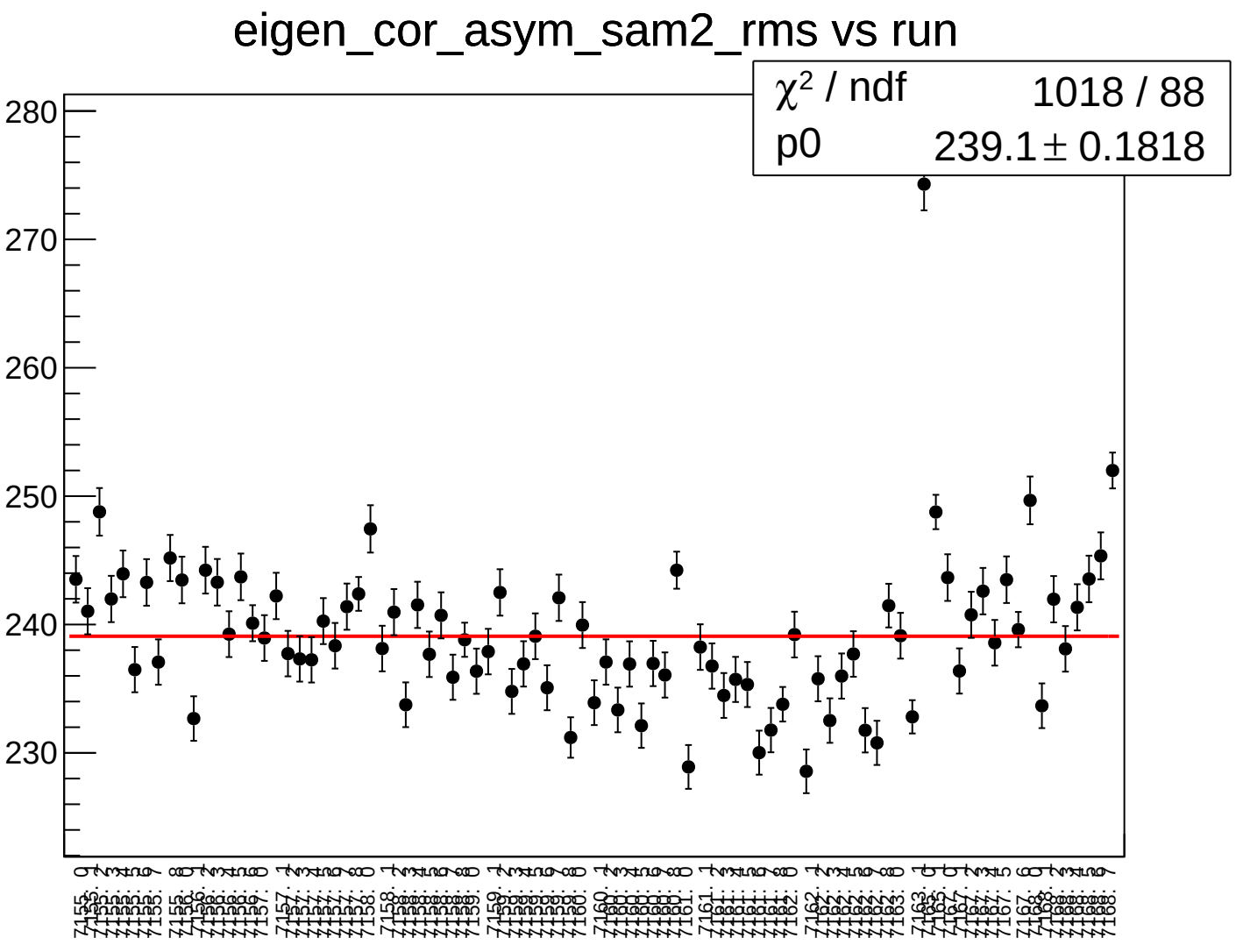

cor_asym_sam2_rms vs run
χ² / ndf 1018 / 88
p0 239.1 ± 0.1818
280
270
260
250
240
230

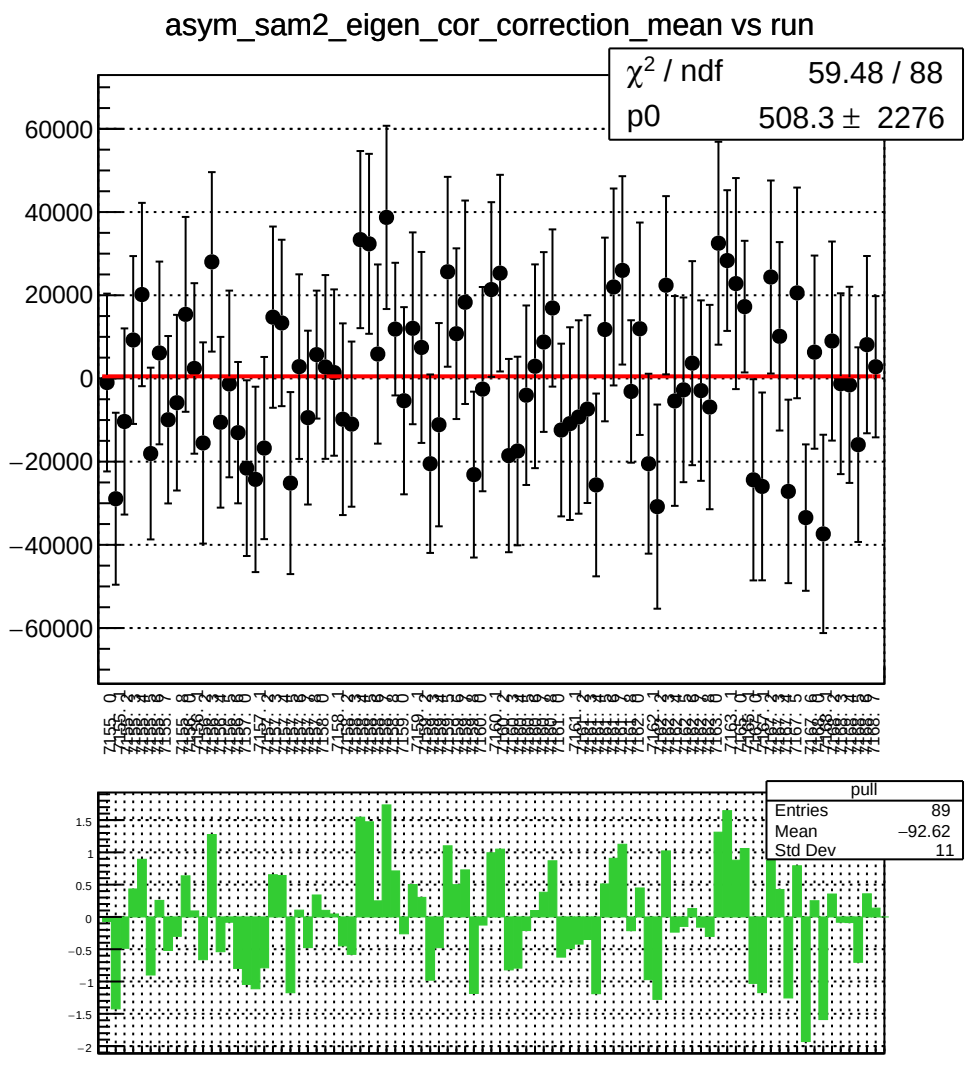

asym_sam2_cor_correction_mean vs run
χ² / ndf 59.48 / 88
p0 508.3 ± 2276
pull
Entries 89
Mean −92.62
Std Dev 11

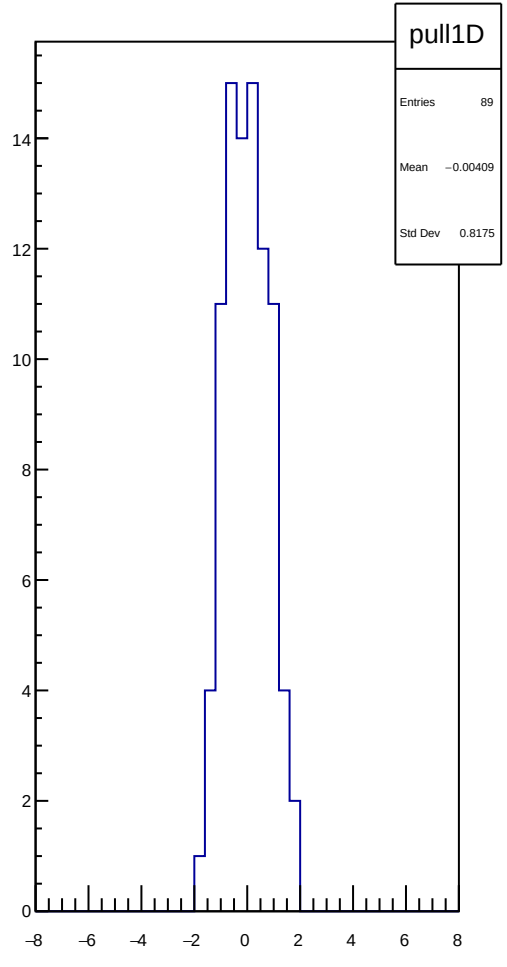

pull1D
Entries 89
Mean −0.00409
Std Dev 0.8175

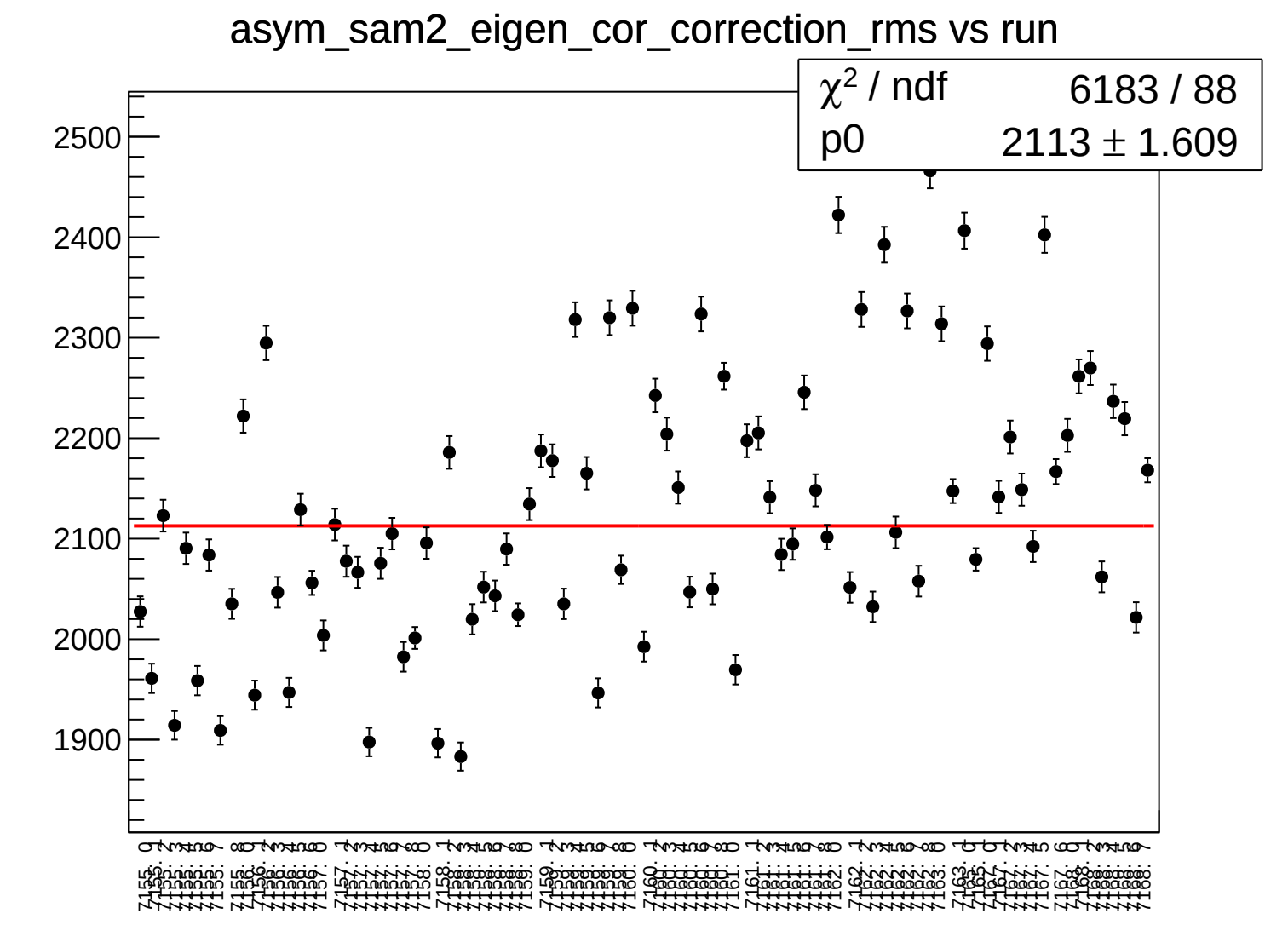

asym_sam2_cor_correction_rms vs run
χ² / ndf 6183 / 88
p0 2113 ± 1.609
2500
2400
2300
2200
2100
2000
1900

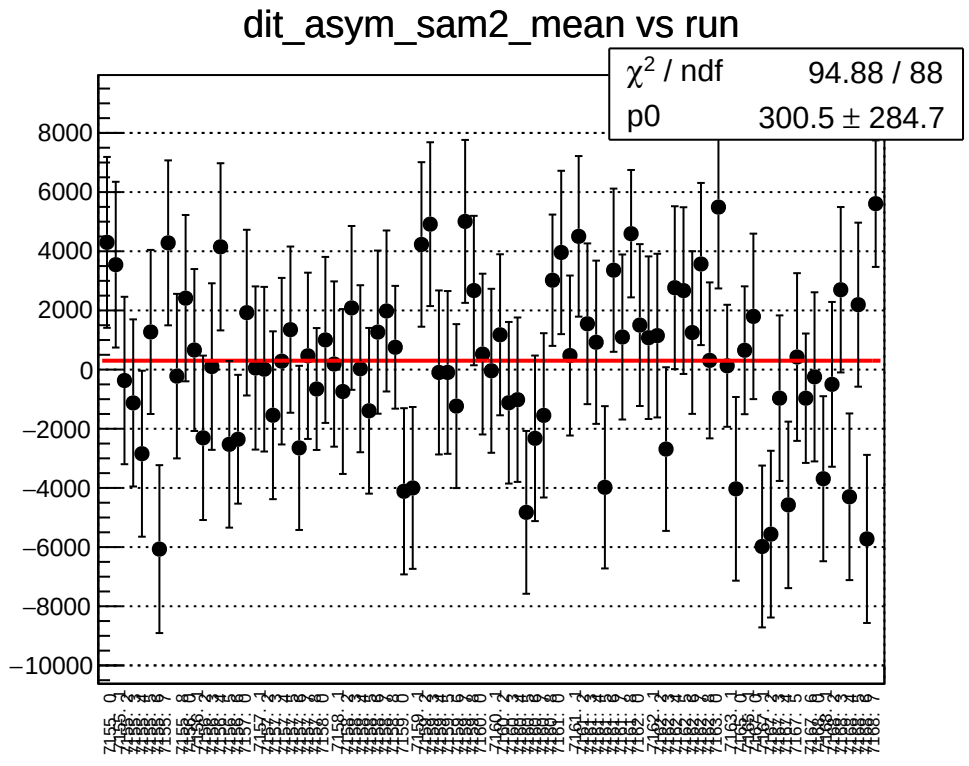

eigen_cor_asym_sam2_mean vs run
χ^2 / ndf 107.6 / 88
p0 411.3 ± 257.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 89
Mean 116.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.008264
Std Dev 1.1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

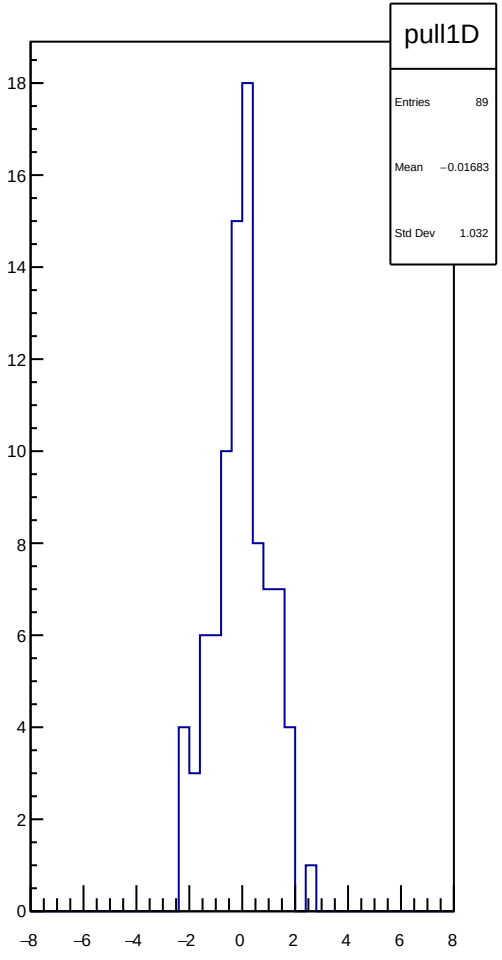

eigen_cor_asym_sam2_rms vs run
χ² / ndf 1018 / 88
p0 239.1 ± 0.1818
280
270
260
250
240
230

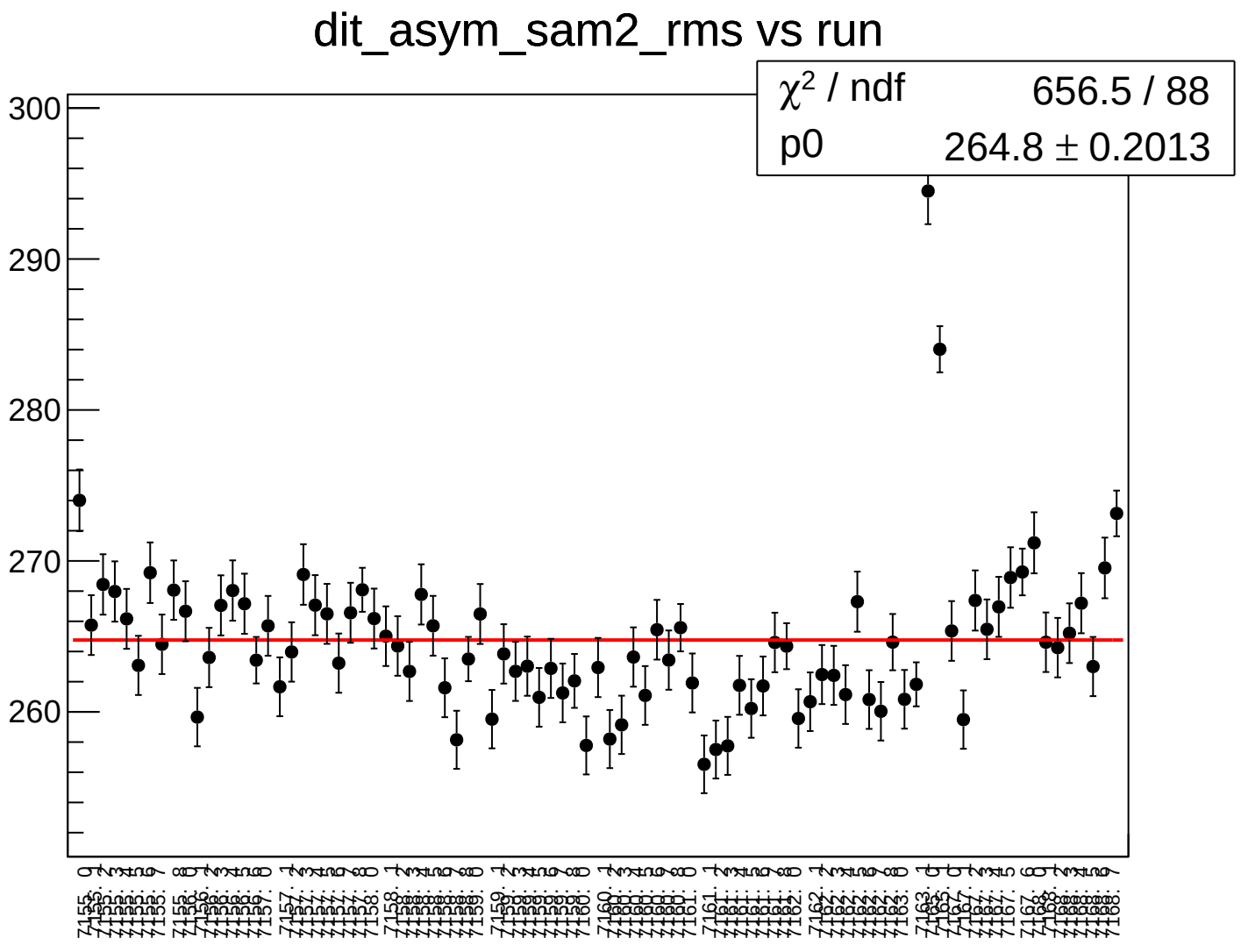

asym_sam2_eigen_cor_correction_mean vs run
χ² / ndf 59.48 / 88
p0 508.3 ± 2276
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −92.62
Std Dev 11
1.5
1
0.5
0
−0.5
−1
−1.5
−2

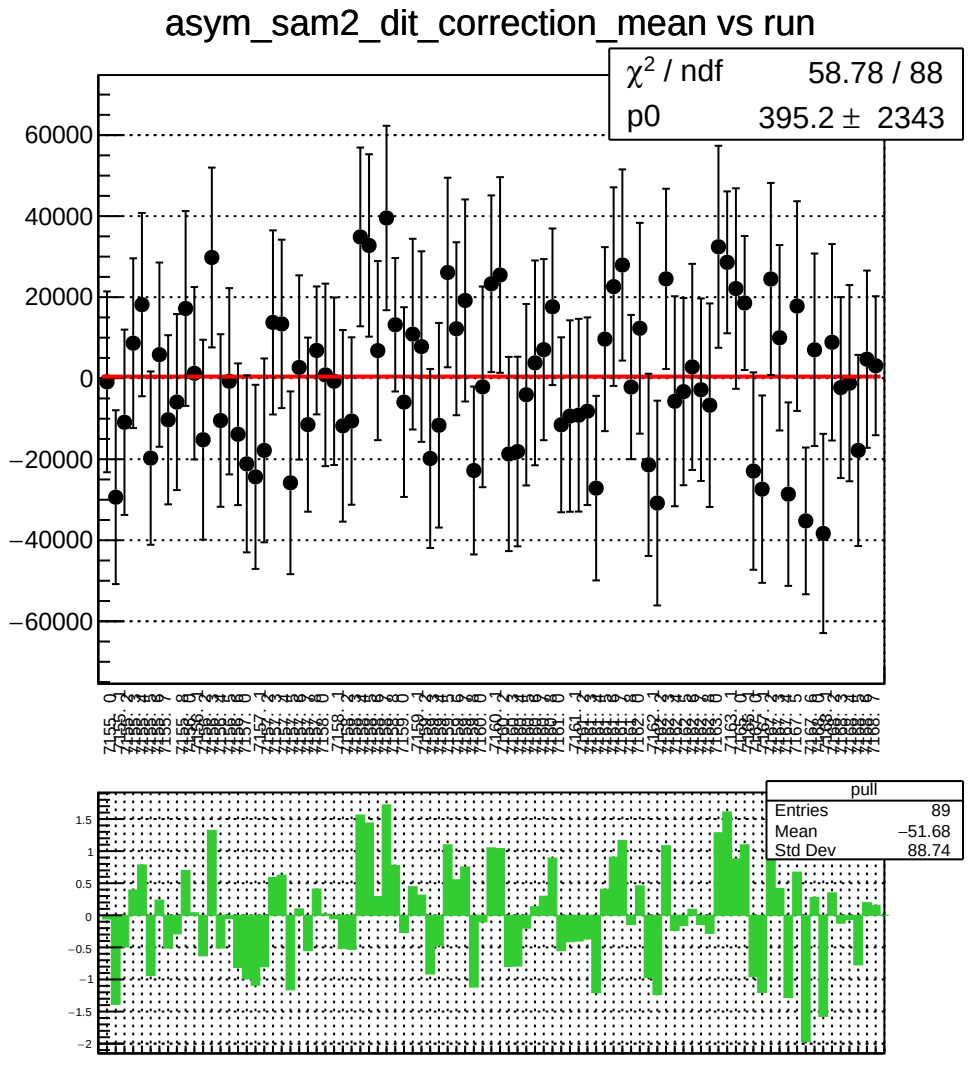

pull1D
Entries 89
Mean −0.00409
Std Dev 0.8175
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

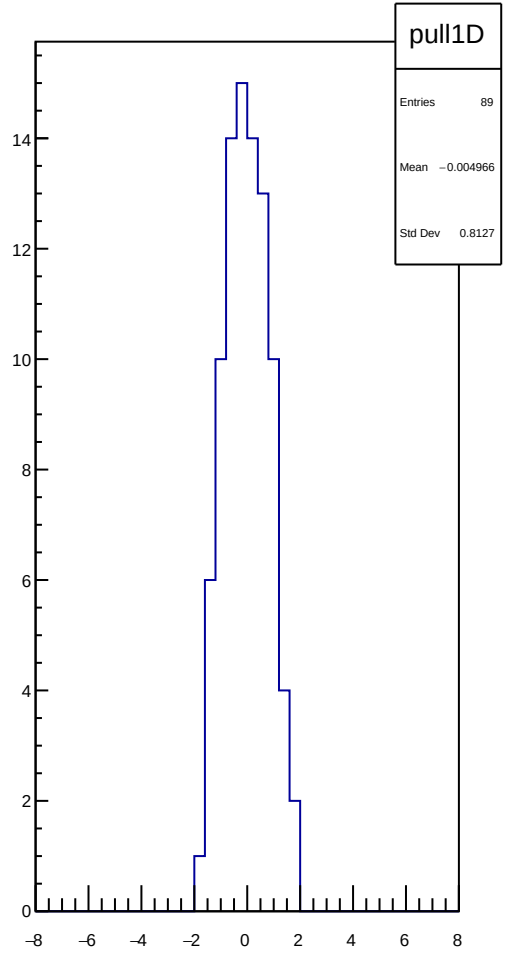

asym_sam2_eigen_cor_correction_rms vs run
χ^2 / ndf 6183 / 88
p0 2113 ± 1.609
2500
2400
2300
2200
2100
2000
1900

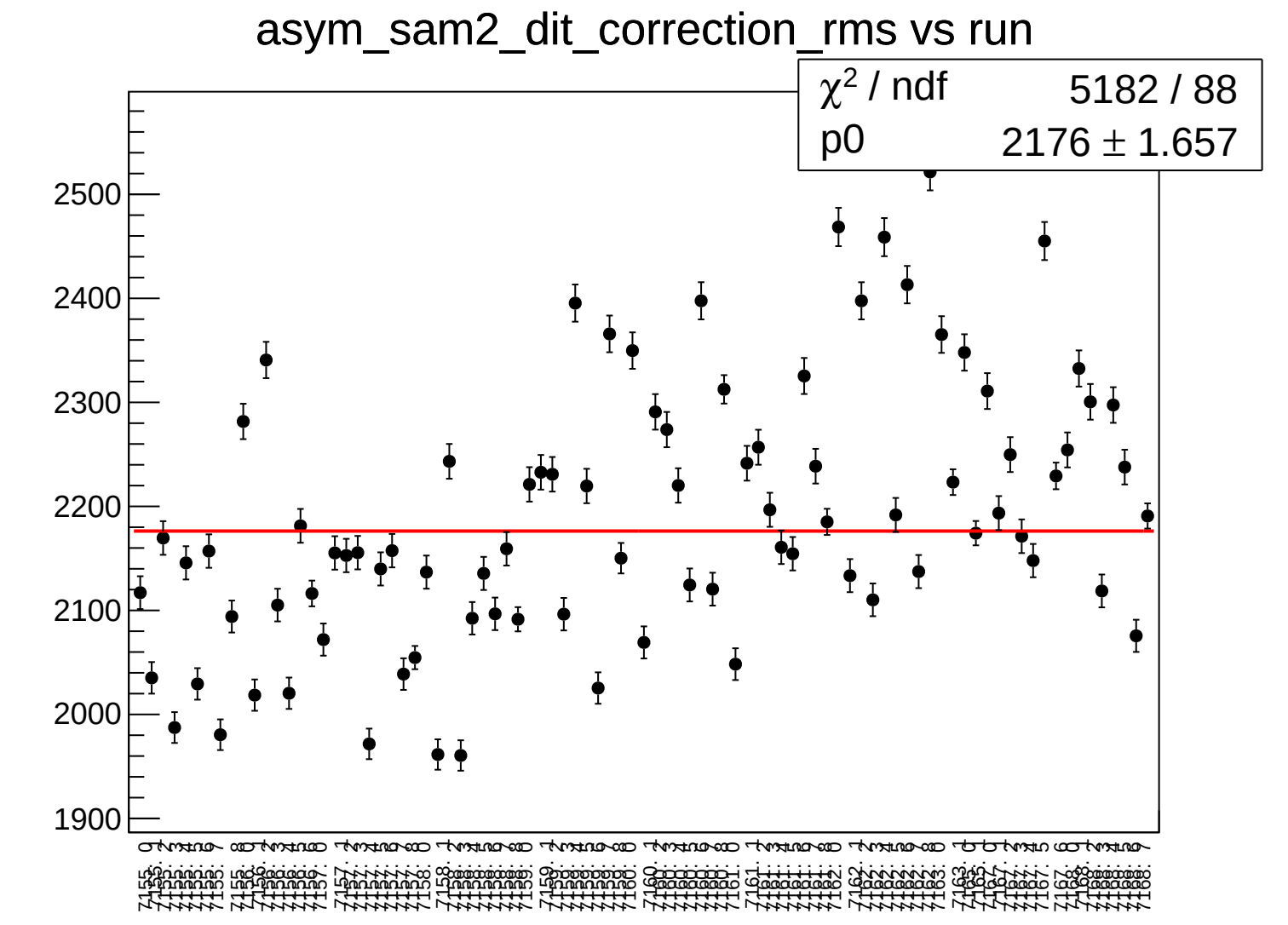

dit_asym_sam2_mean vs run
χ² / ndf 94.88 / 88
p0 300.5 ± 284.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 89
Mean 110.4
Std Dev 13.86
2
1
0
−1
−2

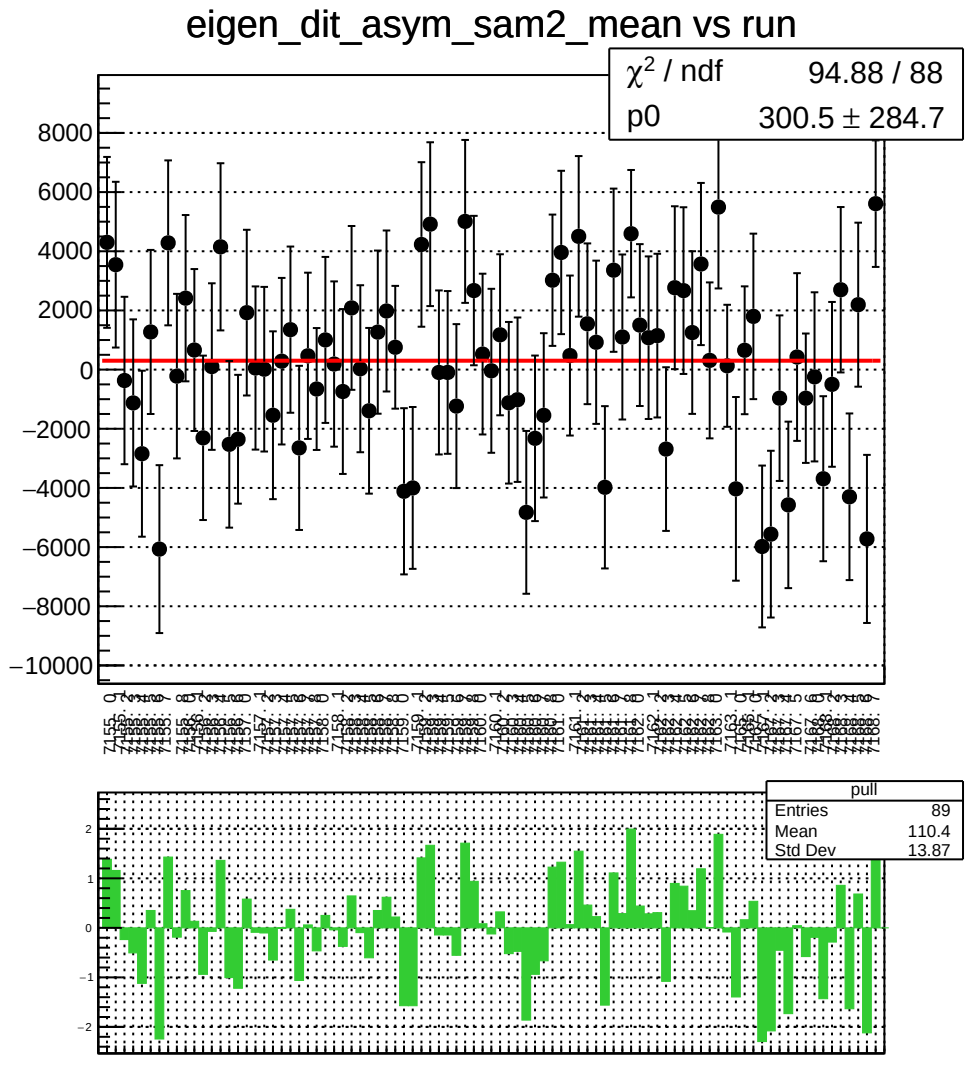

pull1D
Entries 89
Mean −0.01683
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

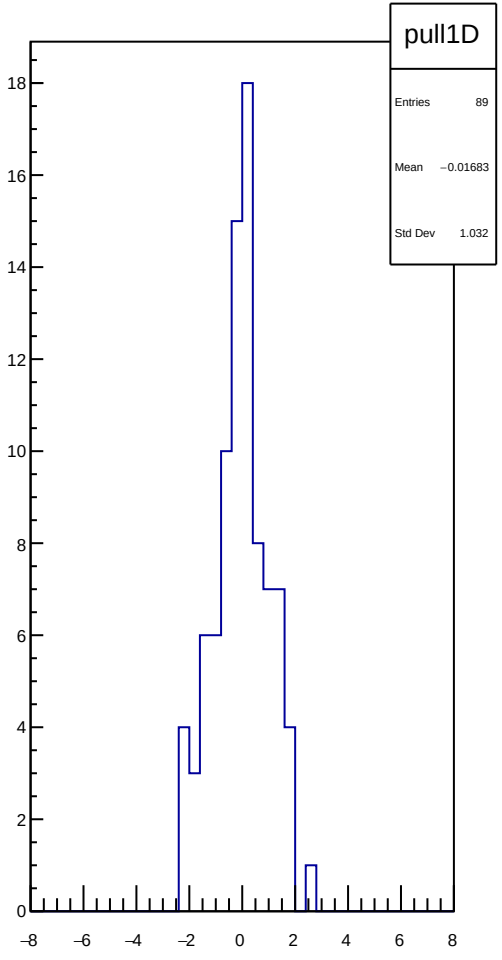

dit_asym_sam2_rms vs run
χ² / ndf 656.5 / 88
p0 264.8 ± 0.2013
300
290
280
270
260

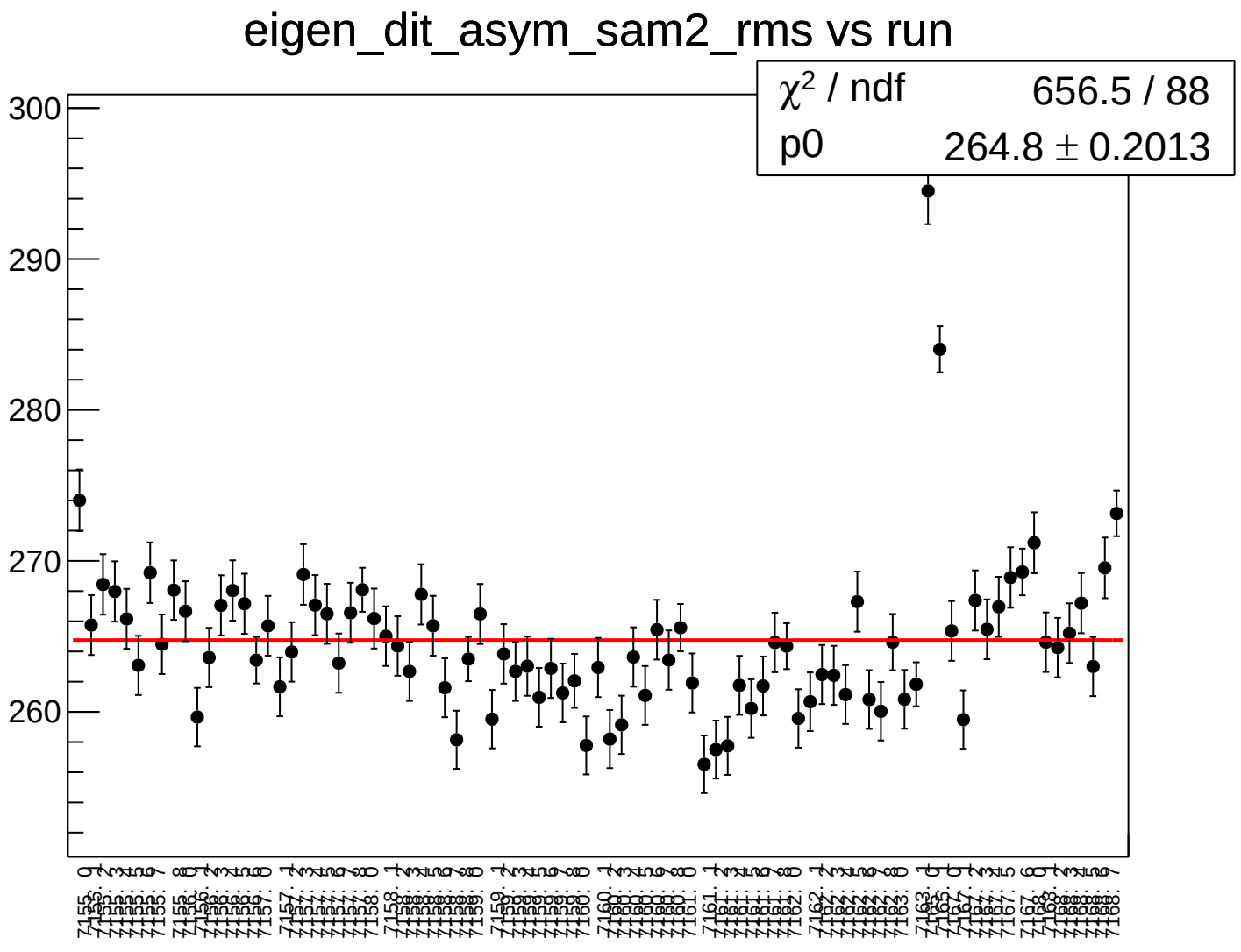

asym_sam2_dit_correction_mean vs run
χ² / ndf 58.78 / 88
p0 395.2 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −51.68
Std Dev 88.74
1.5
1
0.5
0
−0.5
−1
−1.5
−2

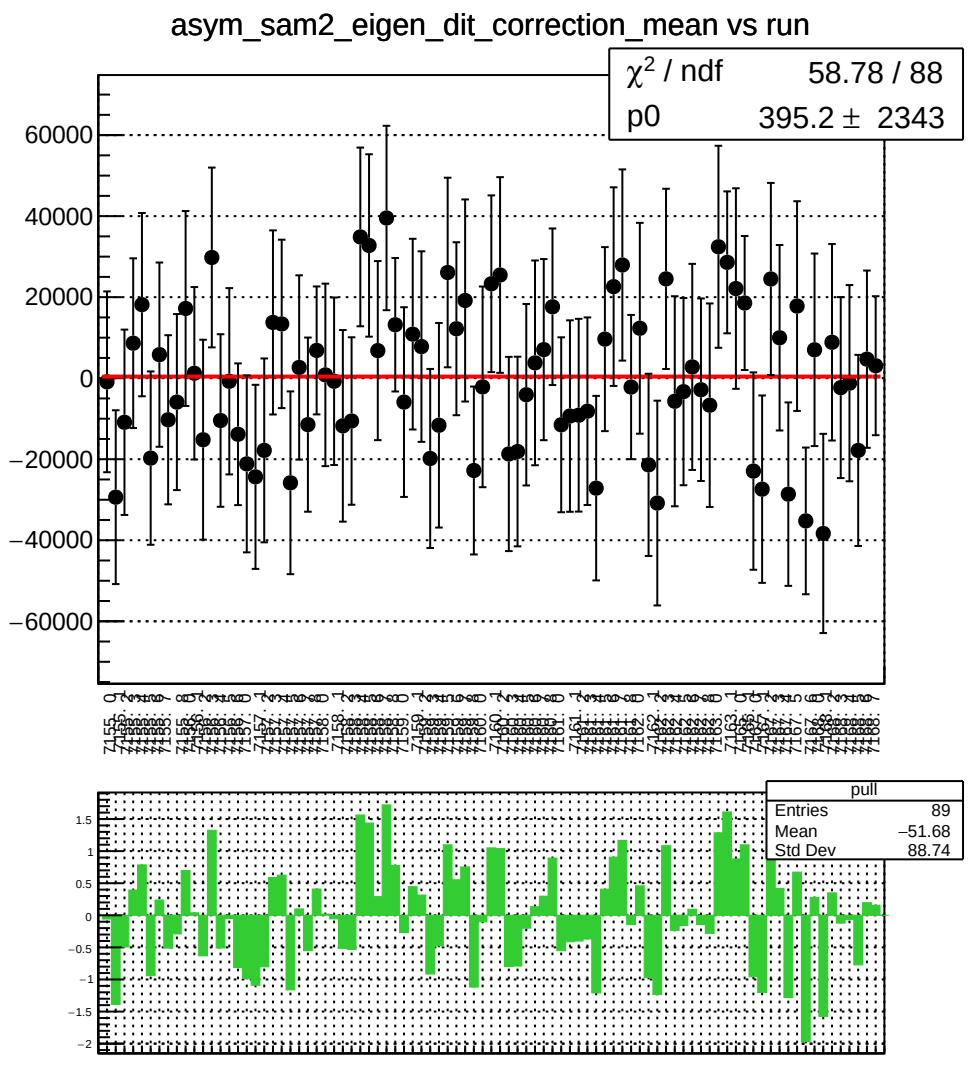

pull1D
Entries 89
Mean −0.004966
Std Dev 0.8127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

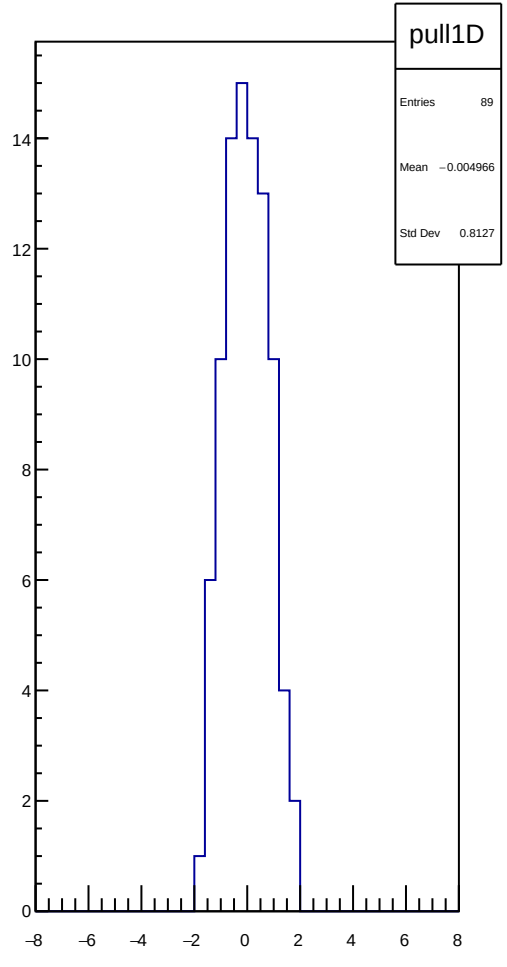

asym_sam2_dit_correction_rms vs run
χ^2 / ndf 5182 / 88
p0 2176 ± 1.657
2500
2400
2300
2200
2100
2000
1900

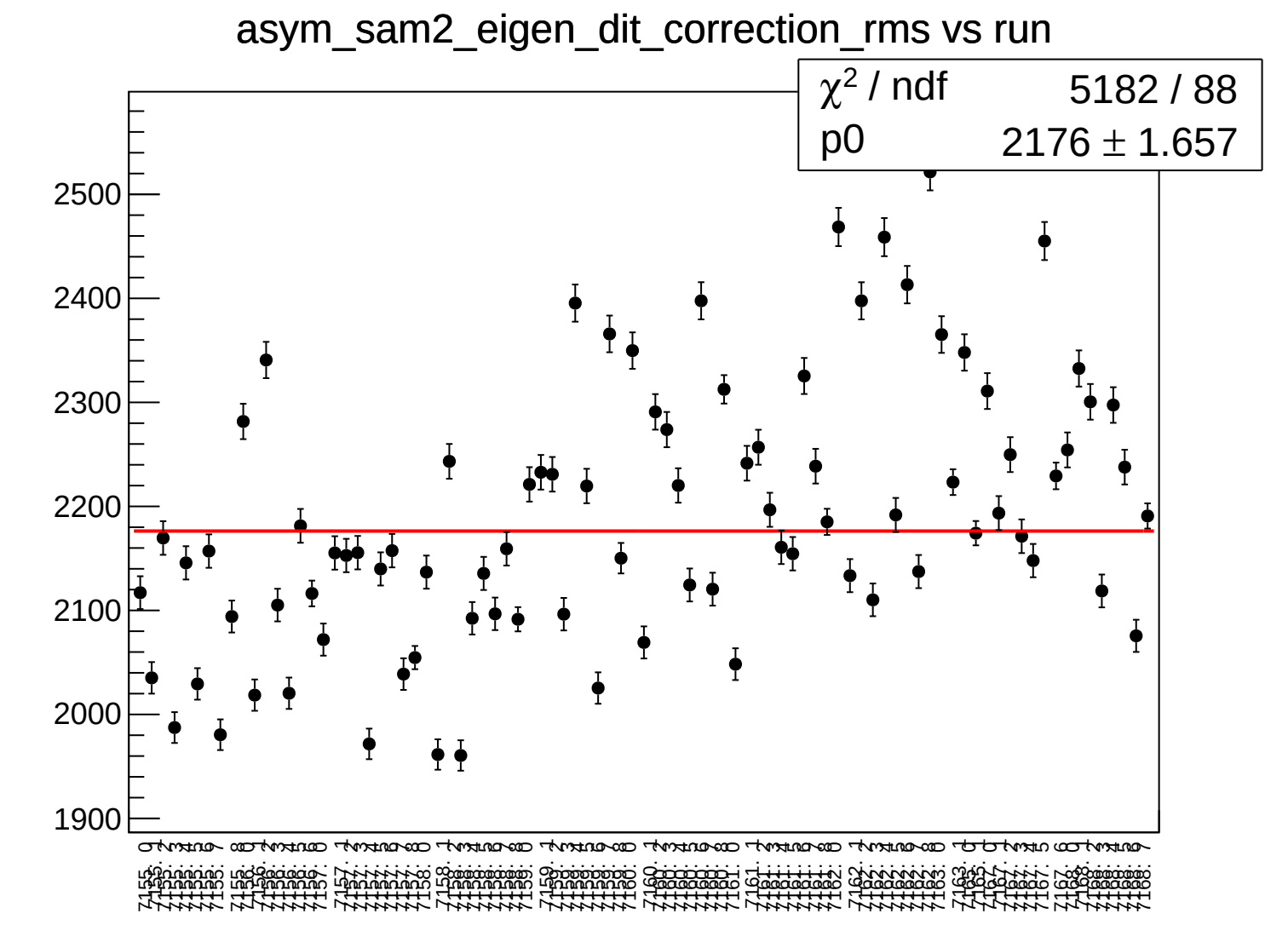

eigen_dit_asym_sam2_mean vs run
χ² / ndf 94.88 / 88
p0 300.5 ± 284.7
pull
Entries 89
Mean 110.4
Std Dev 13.87

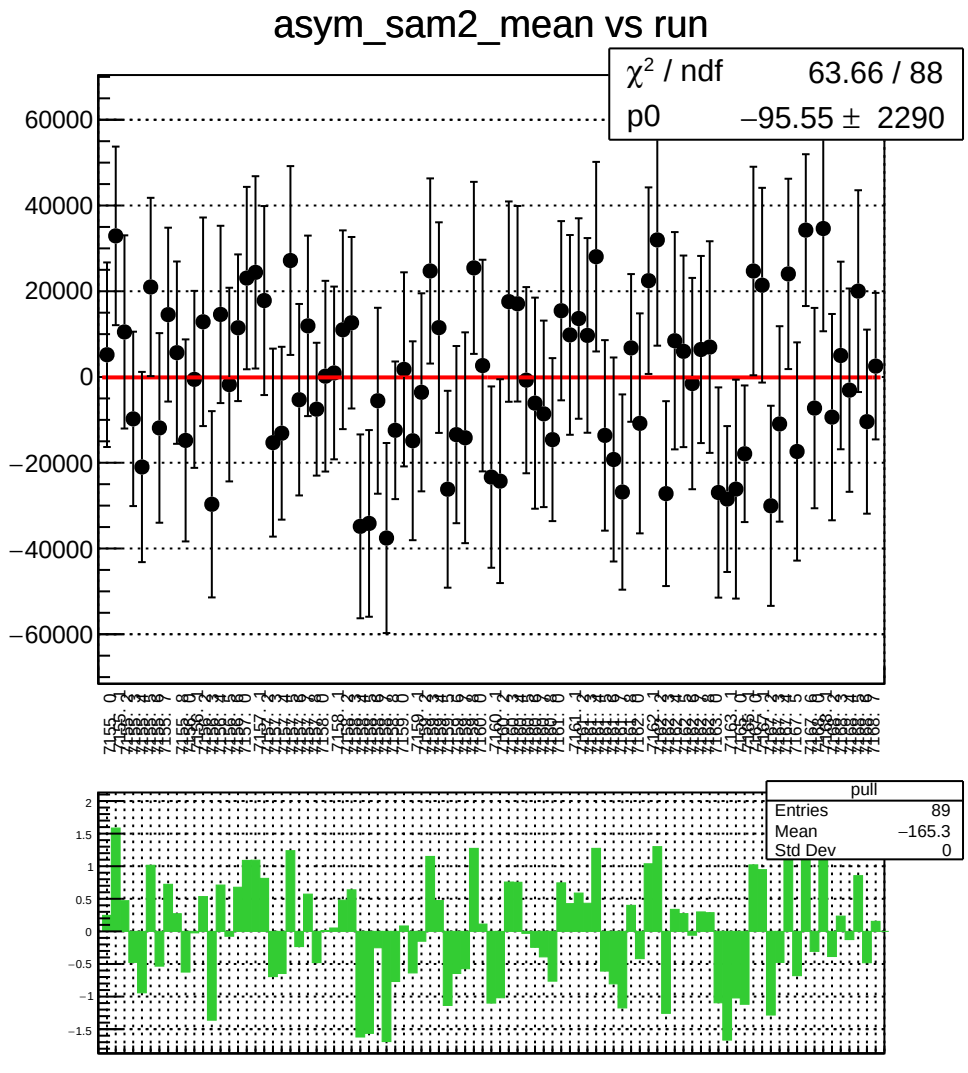

pull1D
Entries 89
Mean −0.01683
Std Dev 1.032

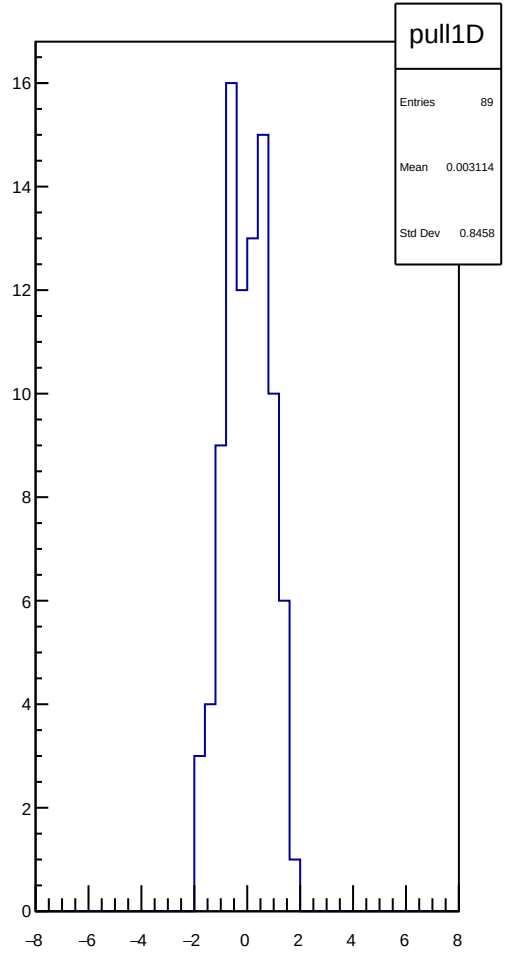

eigen_dit_asym_sam2_rms vs run
χ² / ndf 656.5 / 88
p0 264.8 ± 0.2013
300
290
280
270
260

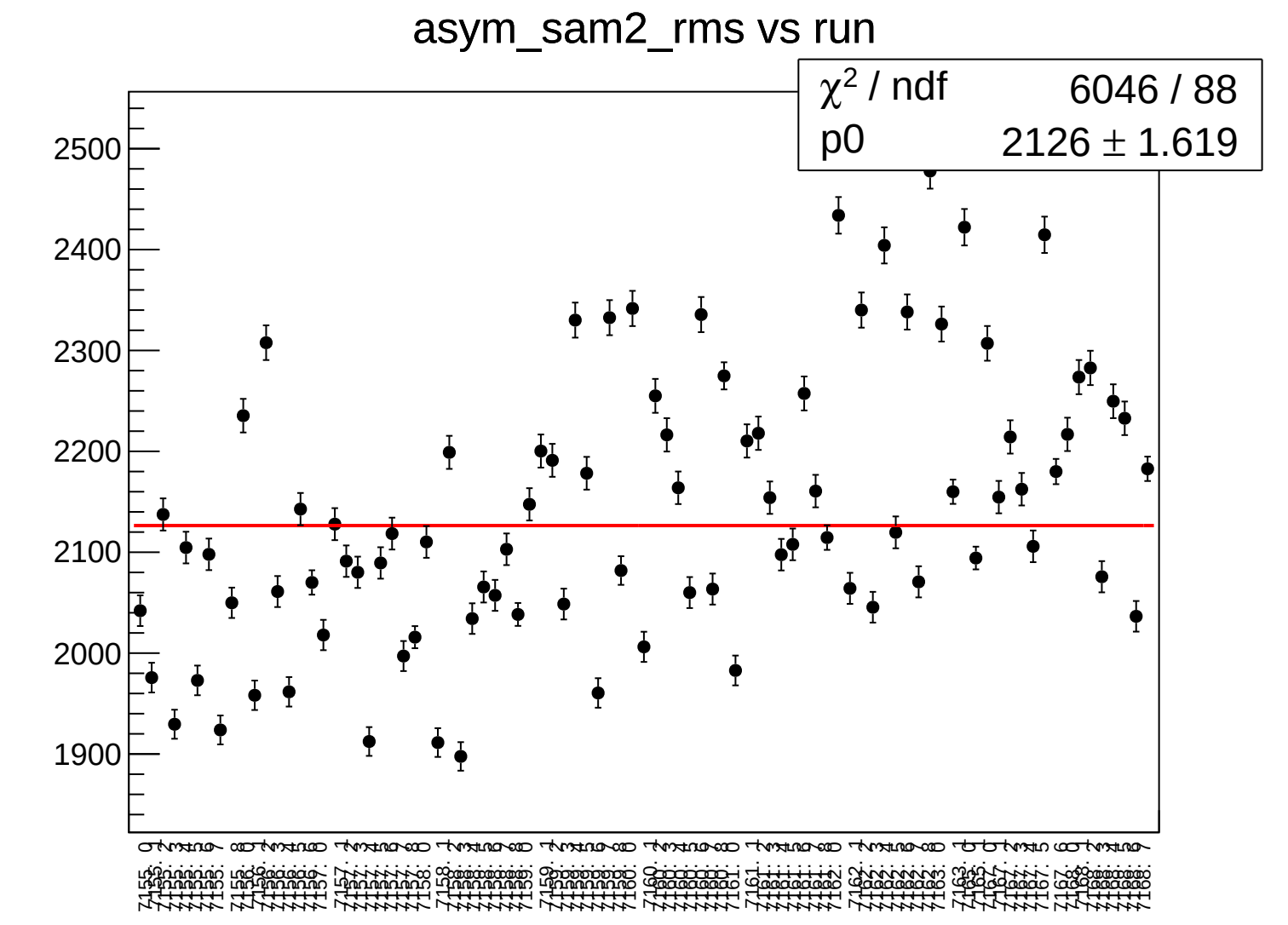

asym_sam2_eigen_dit_correction_mean vs run
χ² / ndf 58.78 / 88
p0 395.2 ± 2343
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −51.68
Std Dev 88.74
1.5
1
0.5
0
−0.5
−1
−1.5
−2

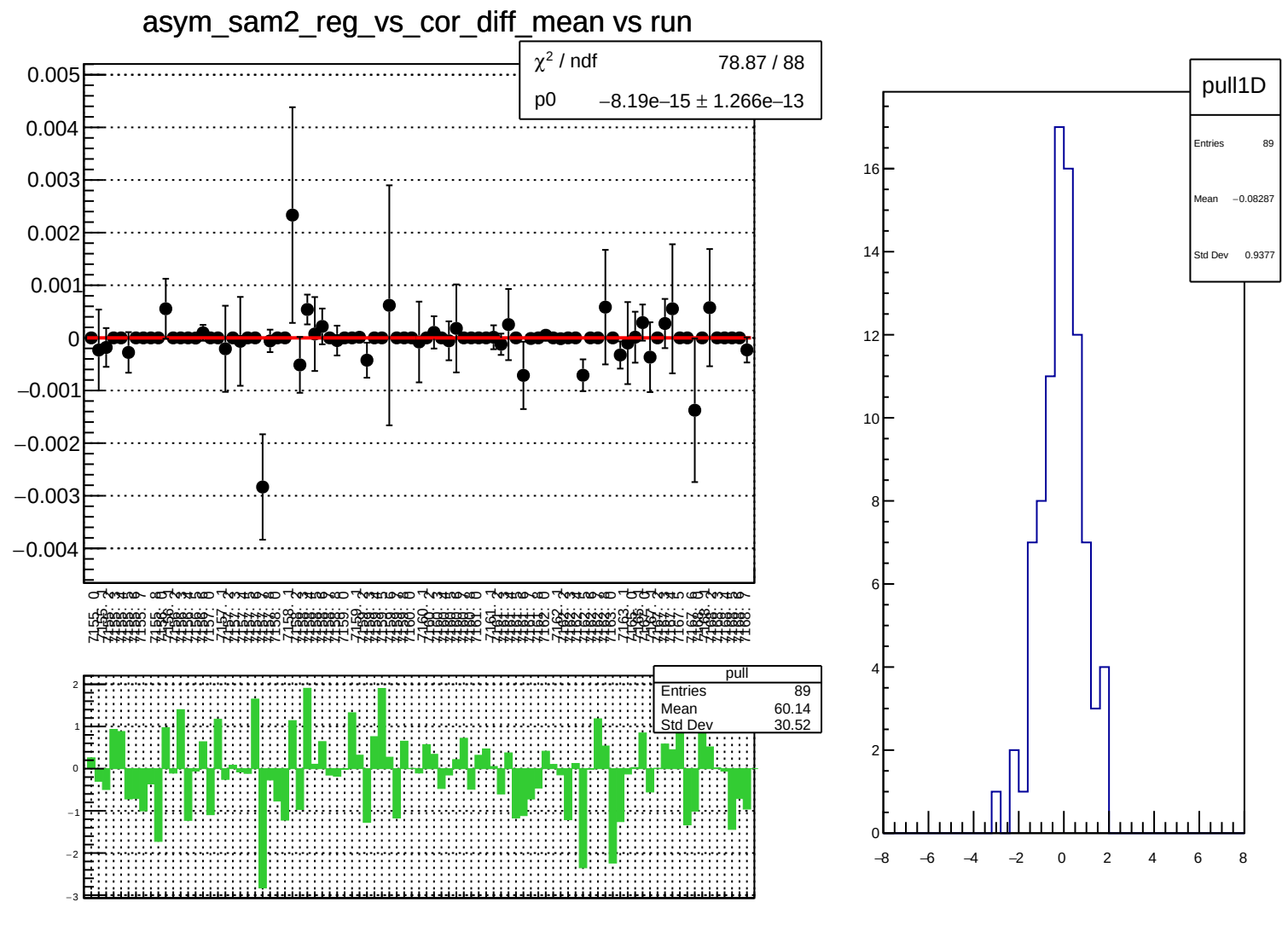

pull1D
Entries 89
Mean −0.004966
Std Dev 0.8127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

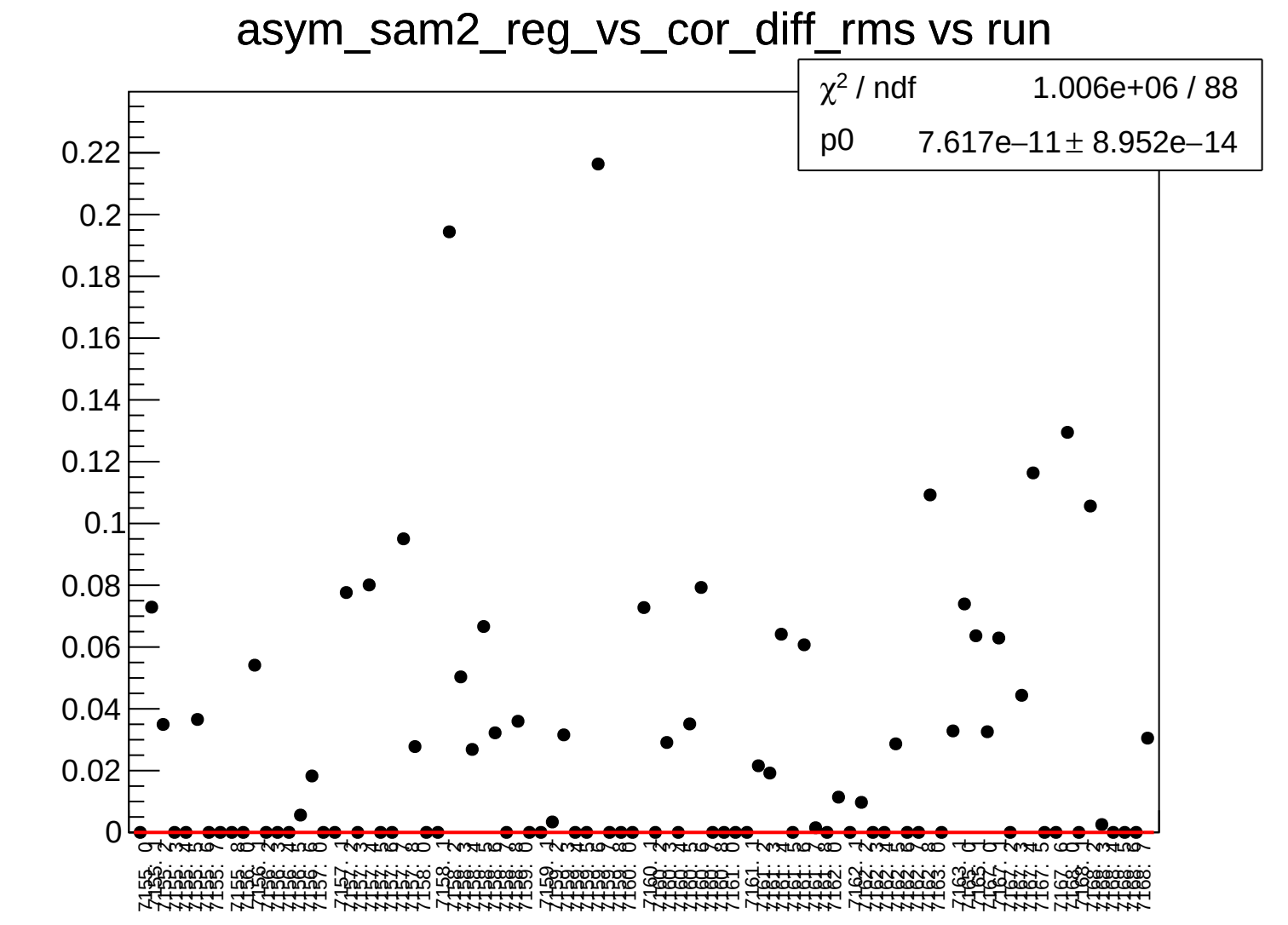

asym_sam2_eigen_dit_correction_rms vs run
χ^2 / ndf 5182 / 88
p0 2176 ± 1.657
2500
2400
2300
2200
2100
2000
1900

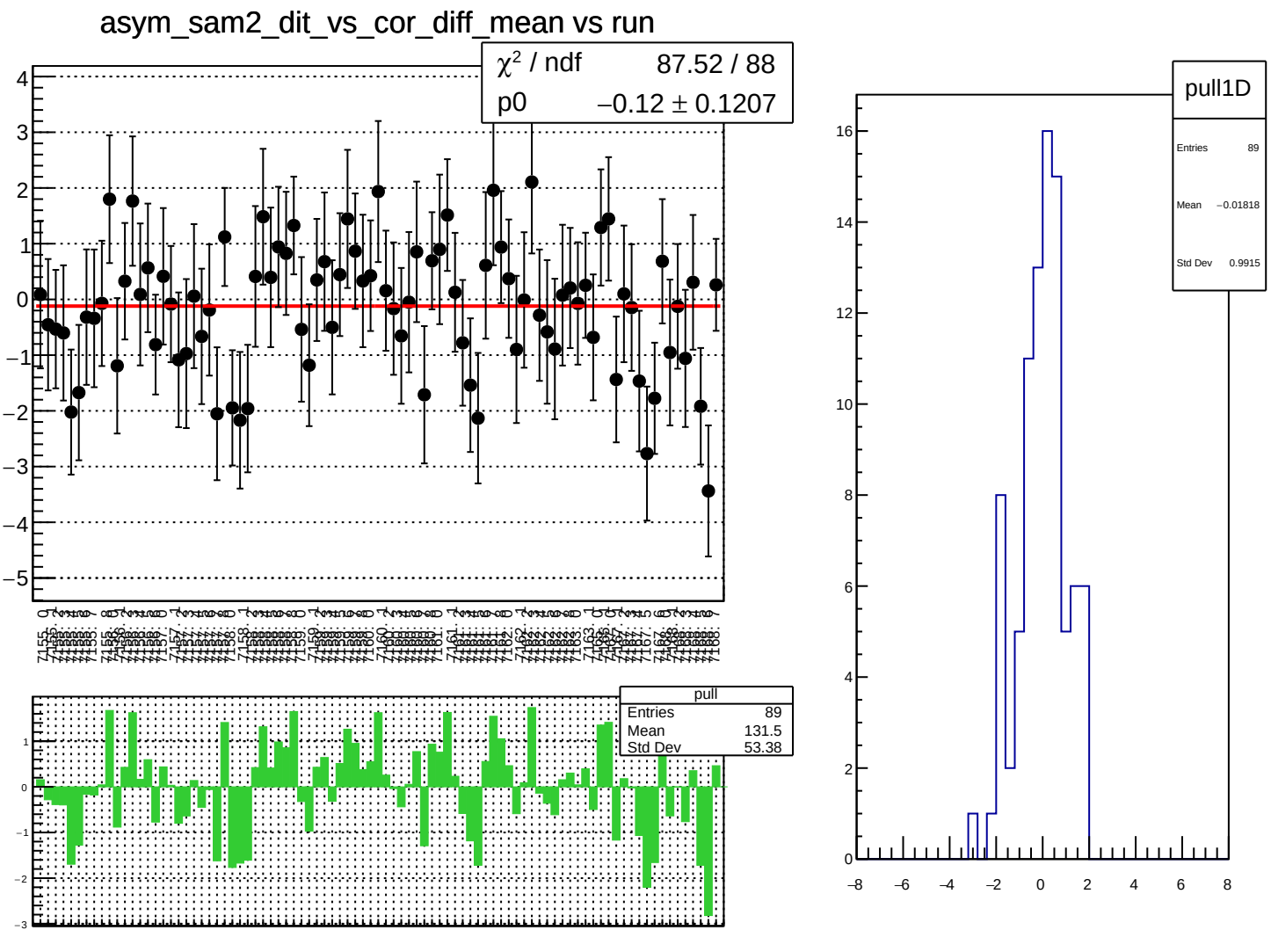

asym_sam2_mean vs run
χ² / ndf 63.66 / 88
p0 −95.55 ± 2290
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

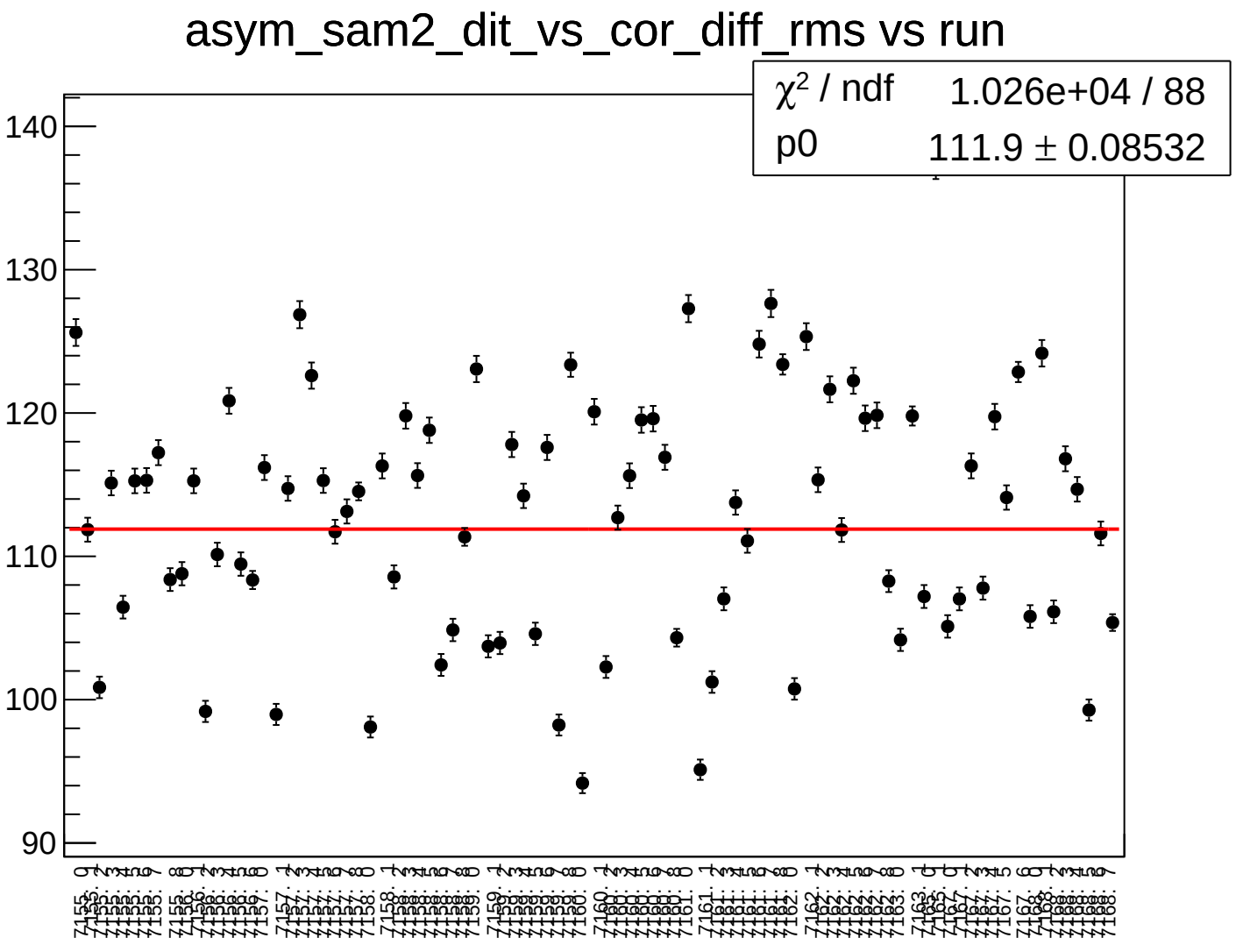

pull1D
Entries 89
Mean 0.003114
Std Dev 0.8458
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

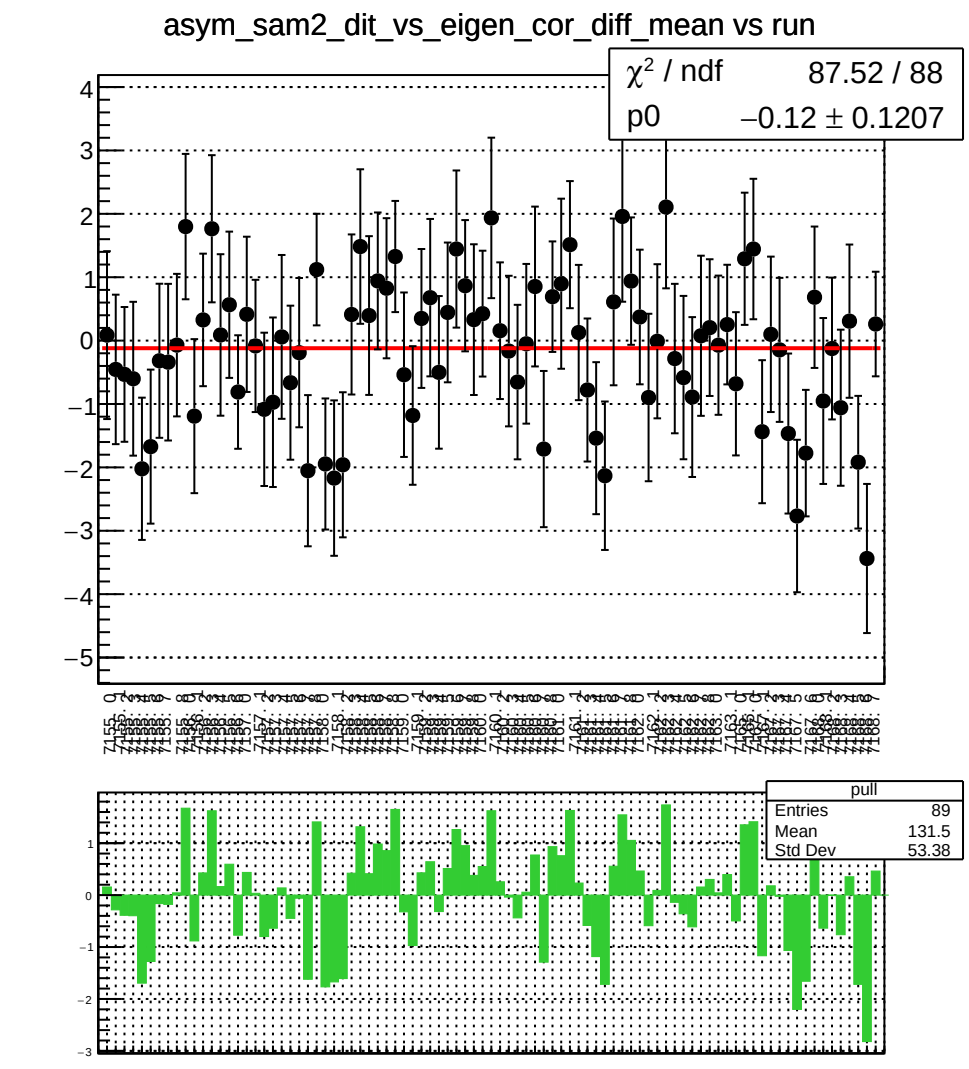

asym_sam2_rms vs run
χ^2 / ndf 6046 / 88
p0 2126 ± 1.619
2500
2400
2300
2200
2100
2000
1900

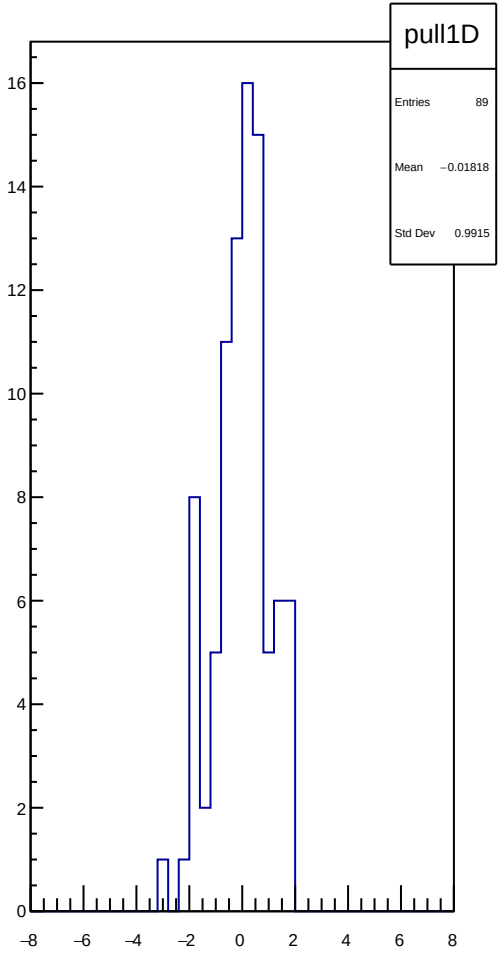

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.87 / 88
p0 −8.19e−15 ± 1.266e−13
pull
Entries 89
Mean 60.14
Std Dev 30.52
pull1D
Entries 89
Mean −0.08287
Std Dev 0.9377

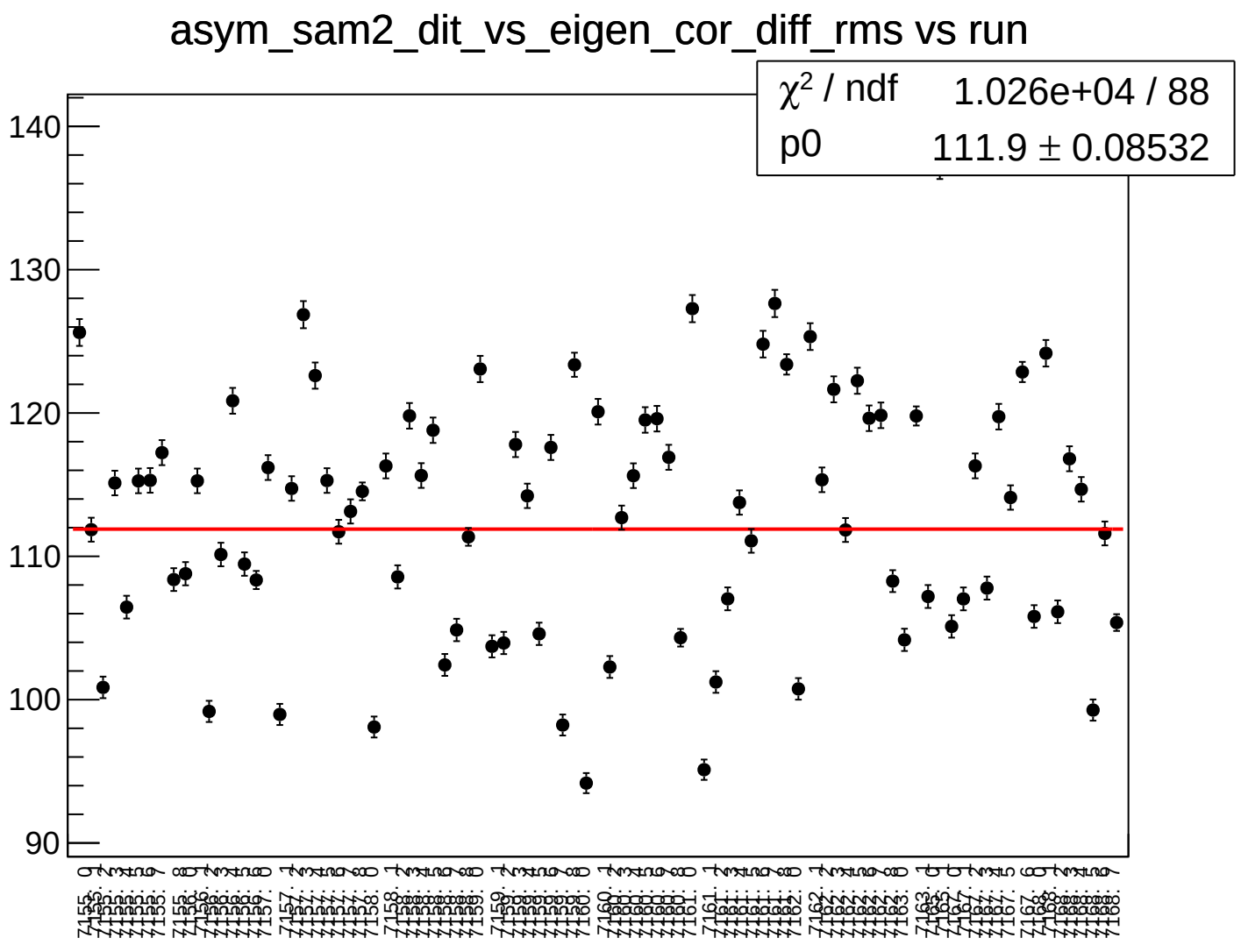

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.006e+06 / 88
p0 7.617e−11 ± 8.952e−14
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

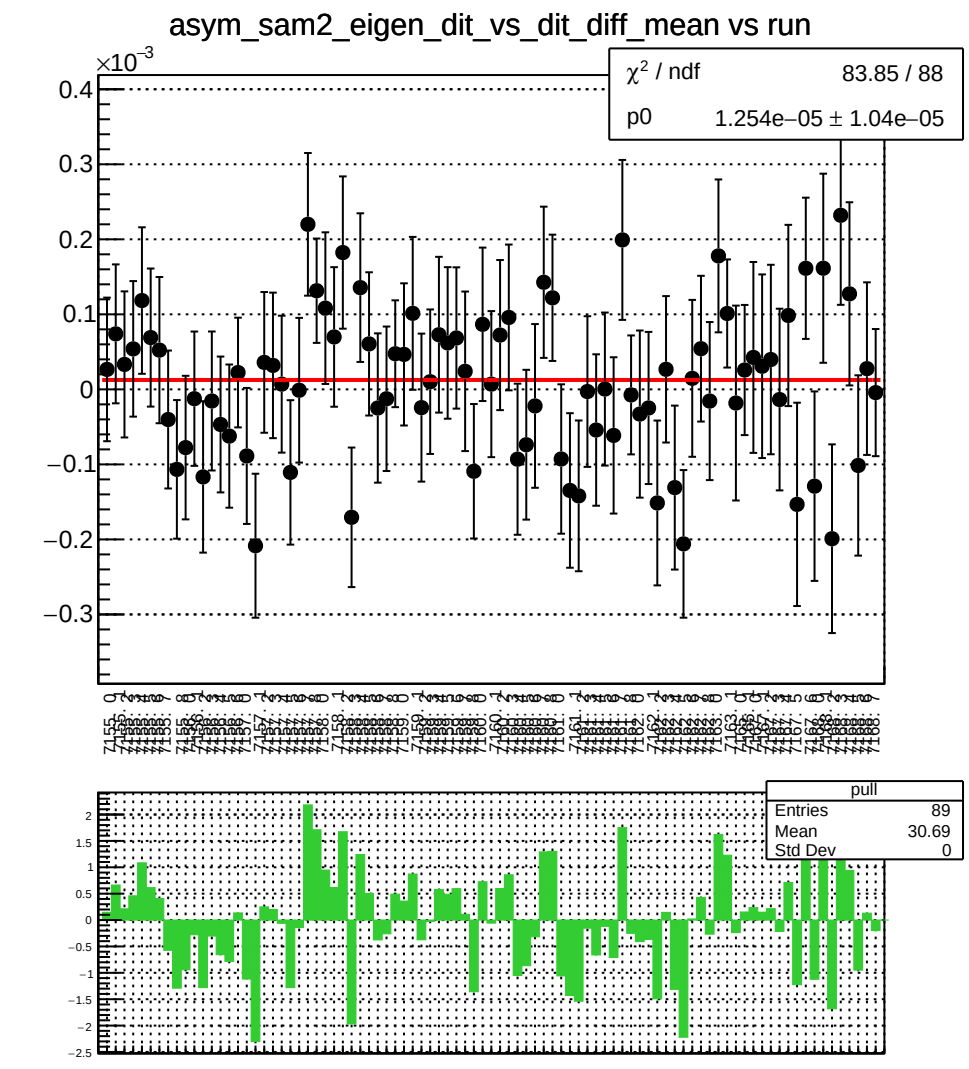

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 87.52 / 88
p0 −0.12 ± 0.1207
pull
Entries 89
Mean 131.5
Std Dev 53.38
pull1D
Entries 89
Mean −0.01818
Std Dev 0.9915

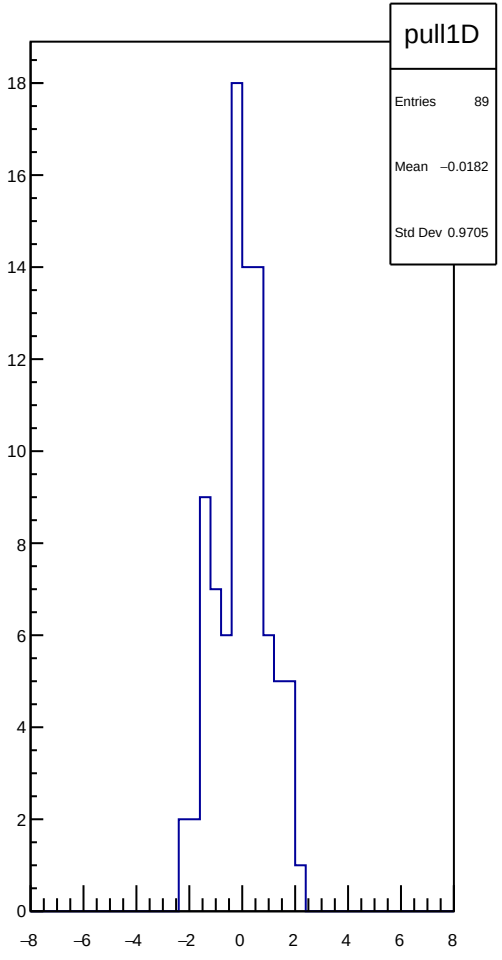

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+04 / 88
p0 111.9 ± 0.08532
140
130
120
110
100
90

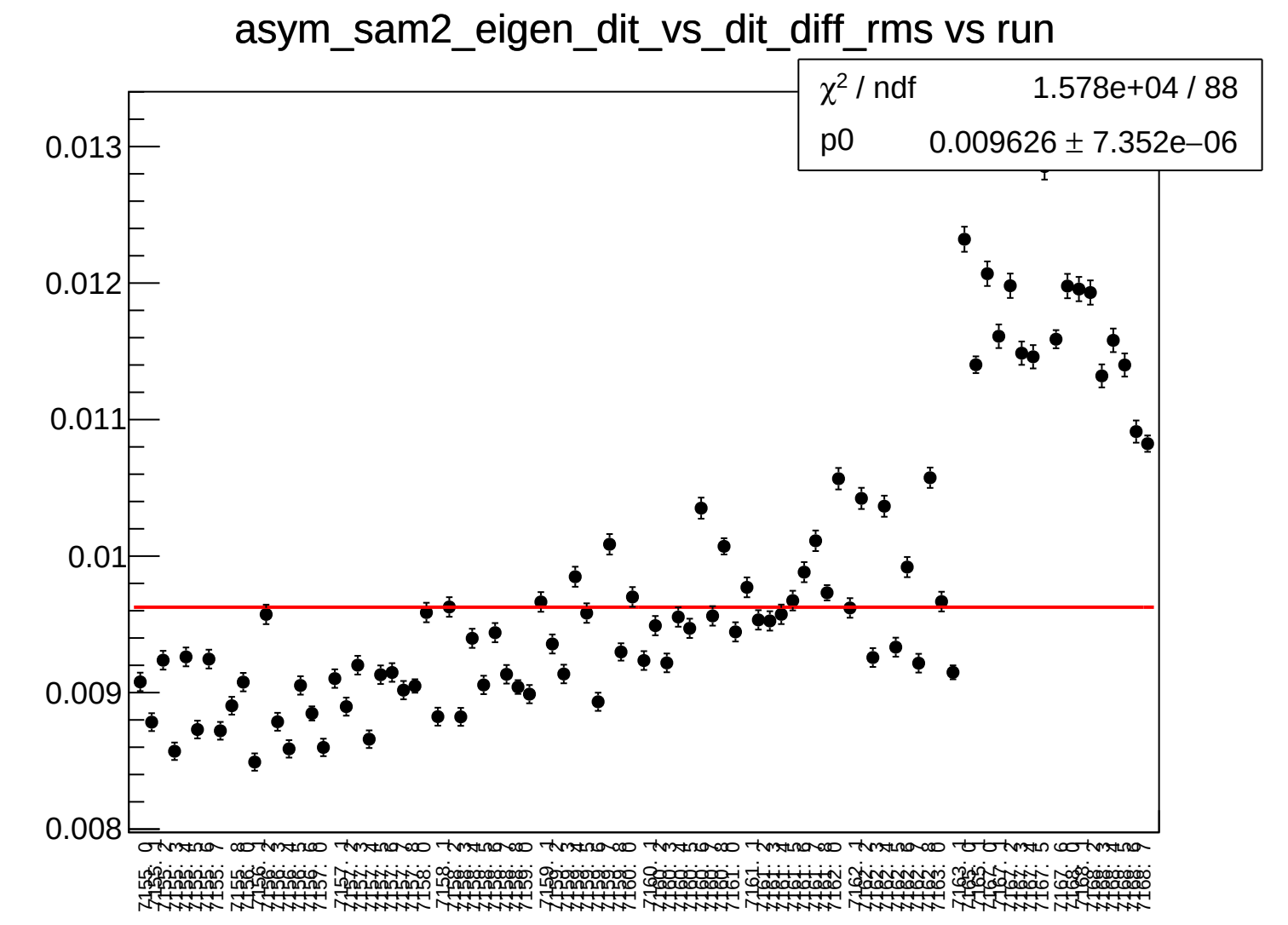

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.52 / 88
p0 −0.12 ± 0.1207
pull
Entries 89
Mean 131.5
Std Dev 53.38

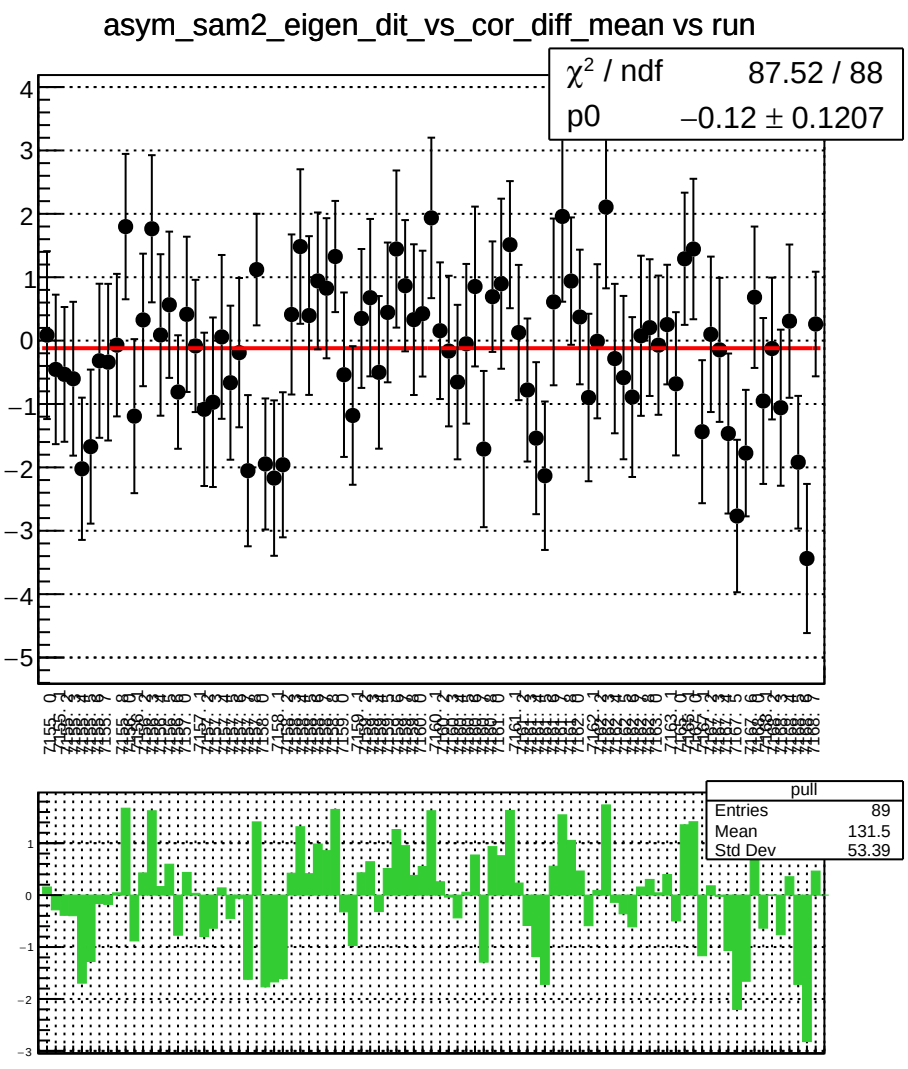

pull1D
Entries 89
Mean −0.01818
Std Dev 0.9915

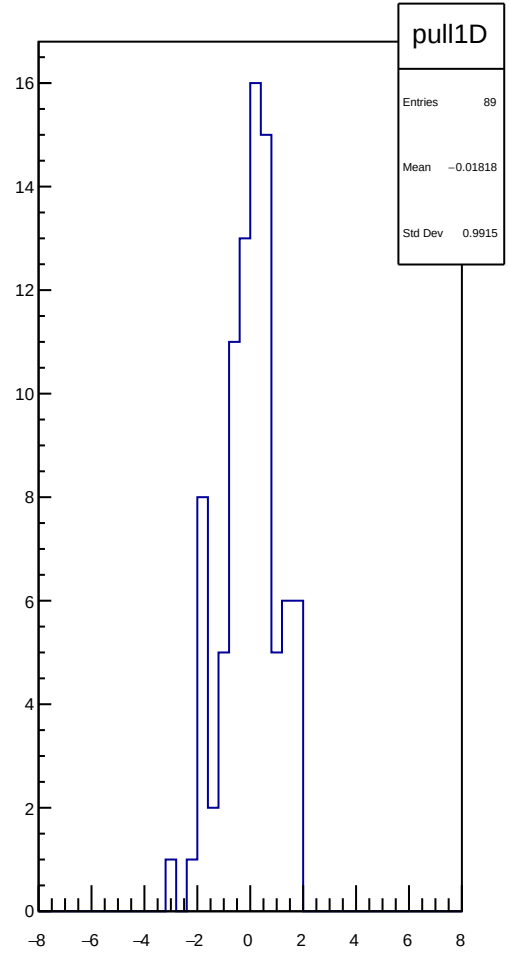

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.026e+04 / 88
p0 111.9 ± 0.08532
140
130
120
110
100
90

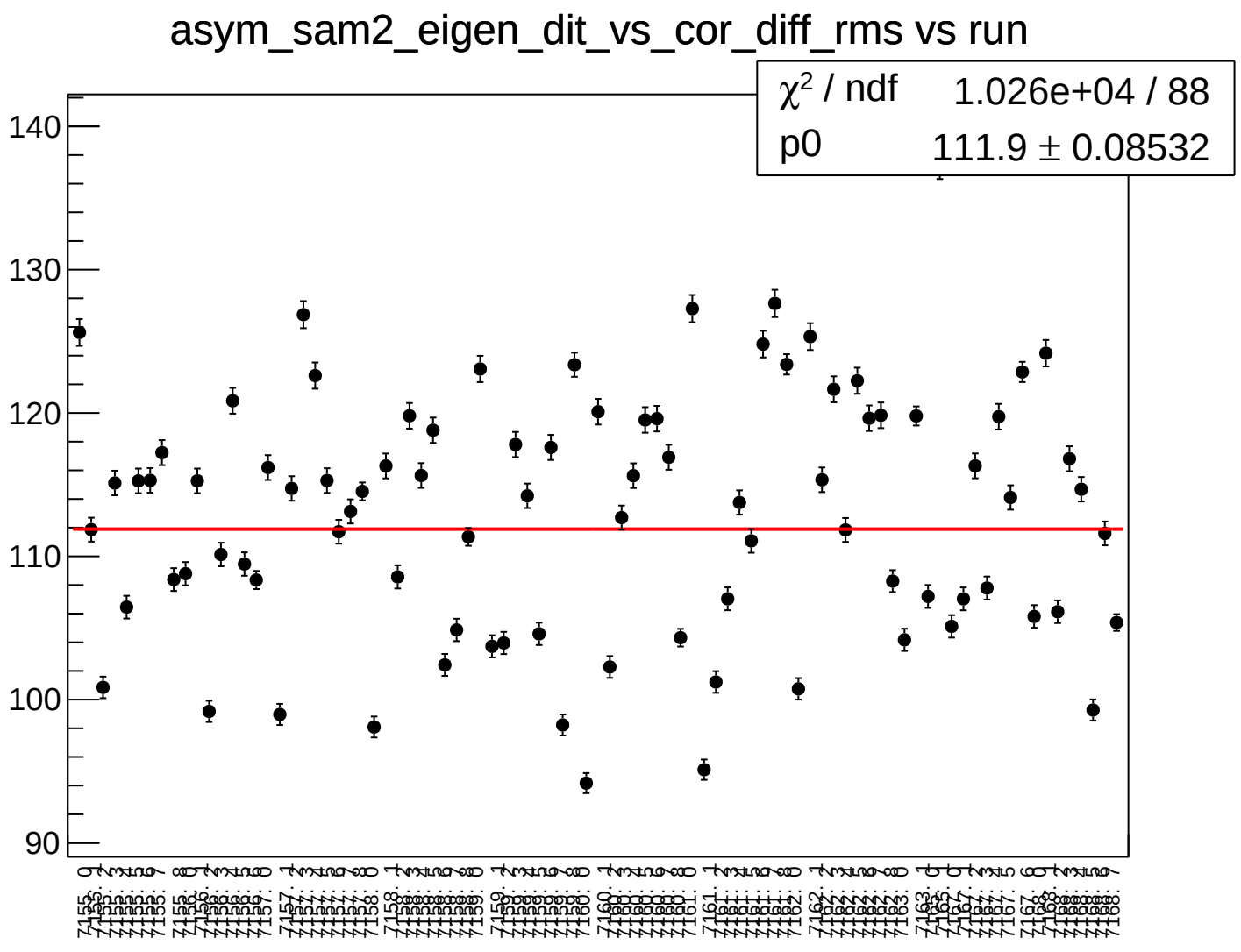

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.85 / 88
p0 1.254e−05 ± 1.04e−05
pull
Entries 89
Mean 30.69
Std Dev 0

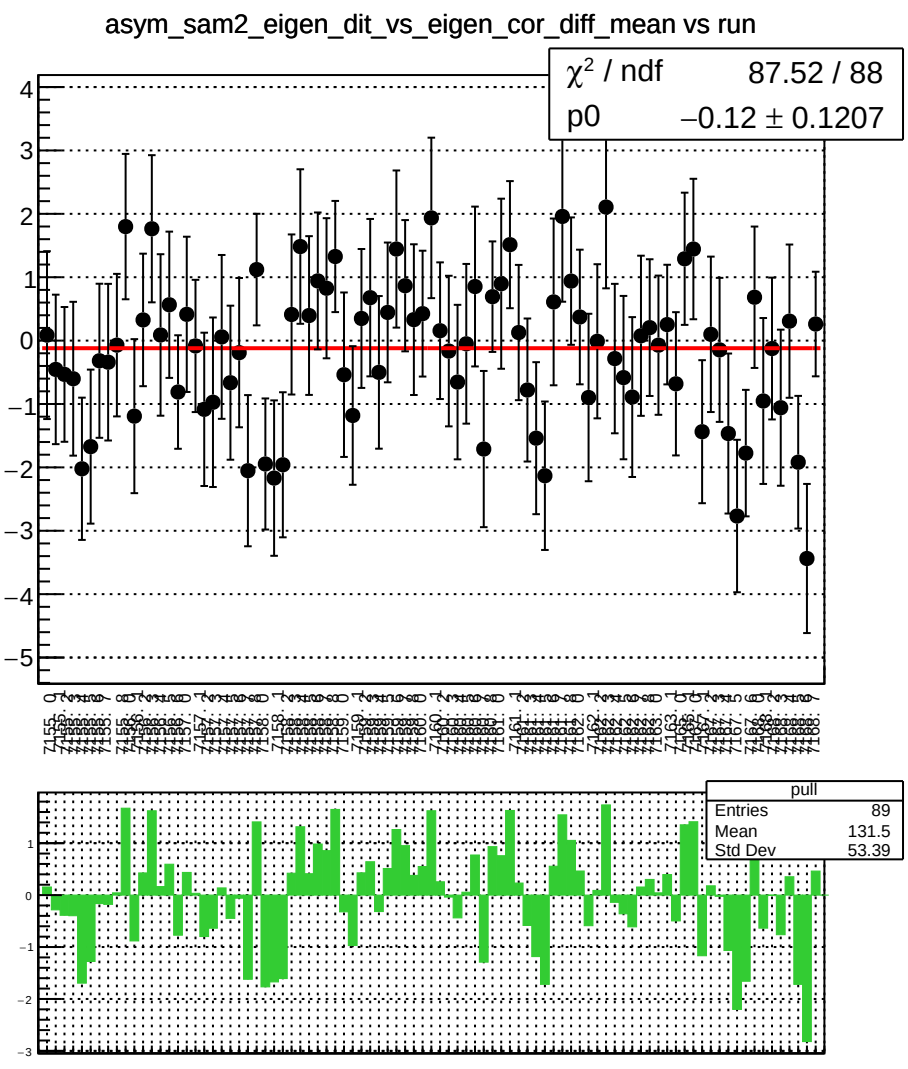

pull1D
Entries 89
Mean −0.0182
Std Dev 0.9705

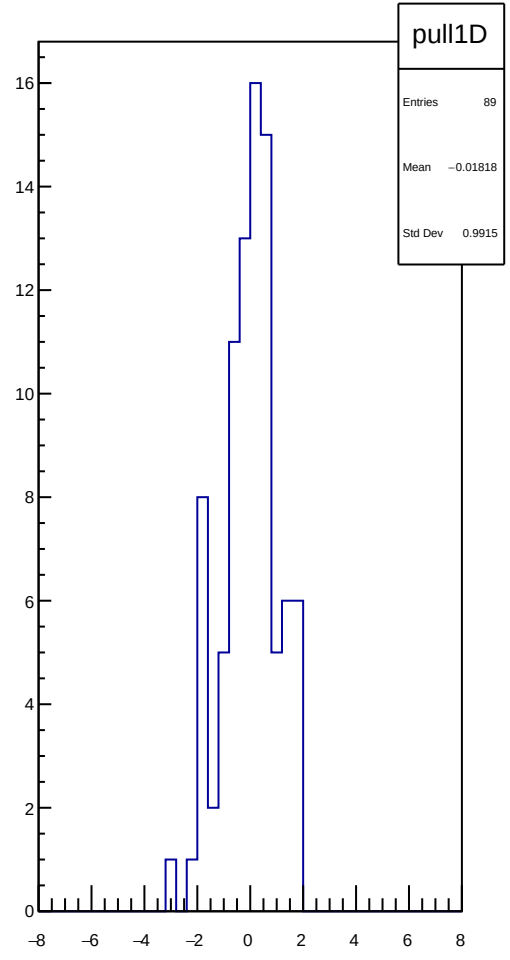

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.578e+04 / 88
p0 0.009626 ± 7.352e−06
0.013
0.012
0.011
0.01
0.009
0.008

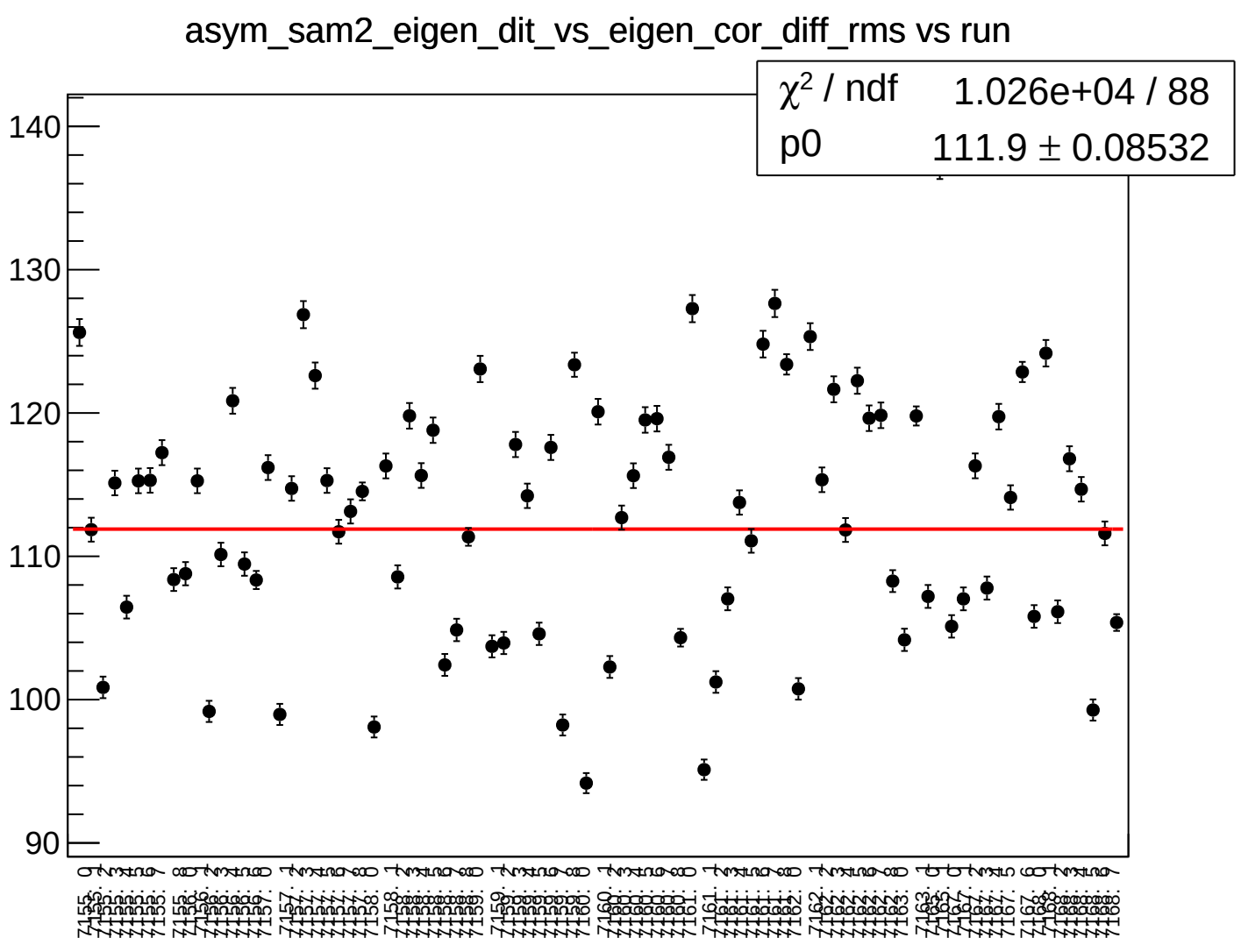

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.52 / 88
p0 −0.12 ± 0.1207
pull
Entries 89
Mean 131.5
Std Dev 53.39

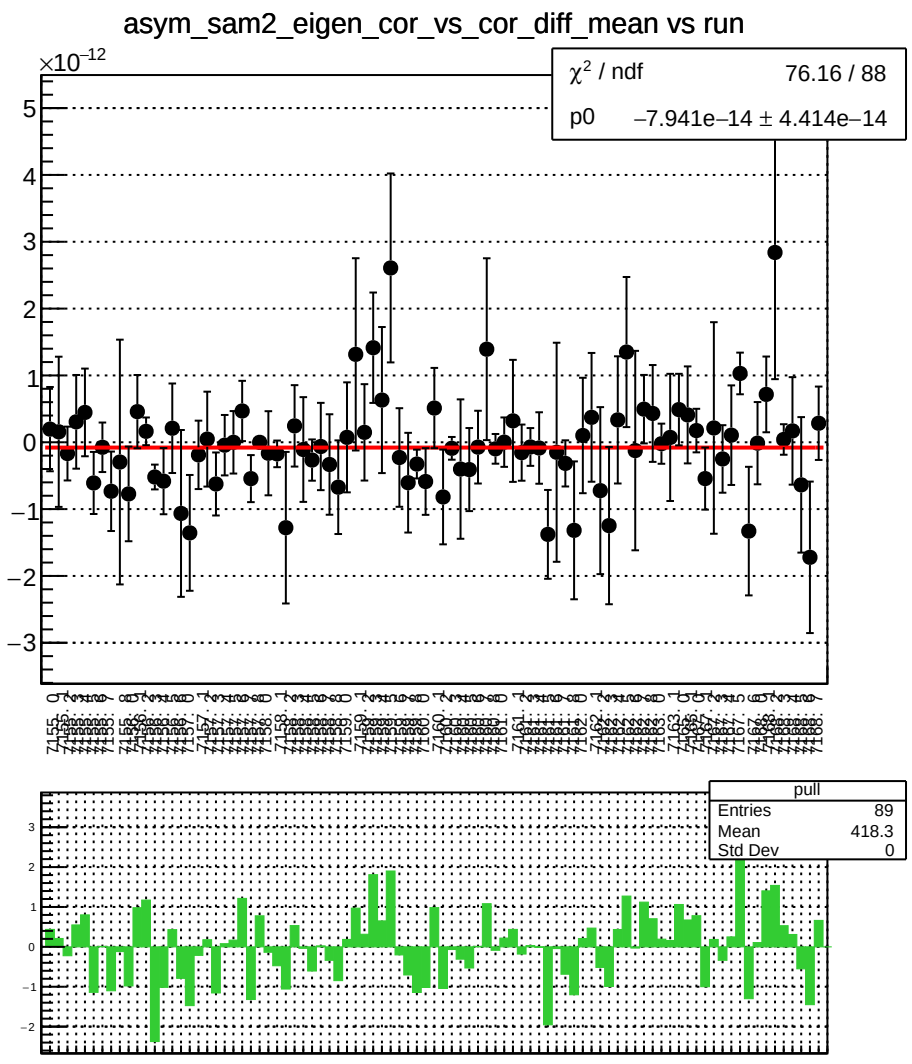

pull1D
Entries 89
Mean −0.01818
Std Dev 0.9915

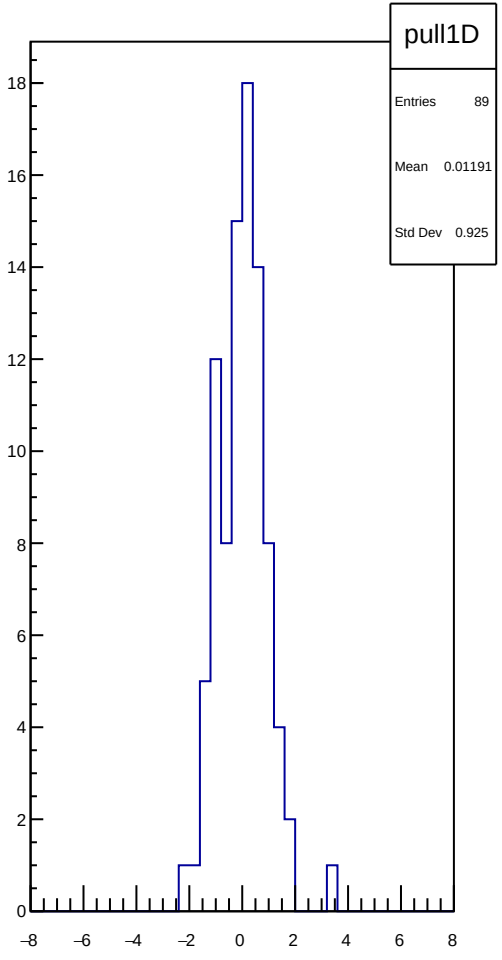

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+04 / 88
p0 111.9 ± 0.08532
140
130
120
110
100
90

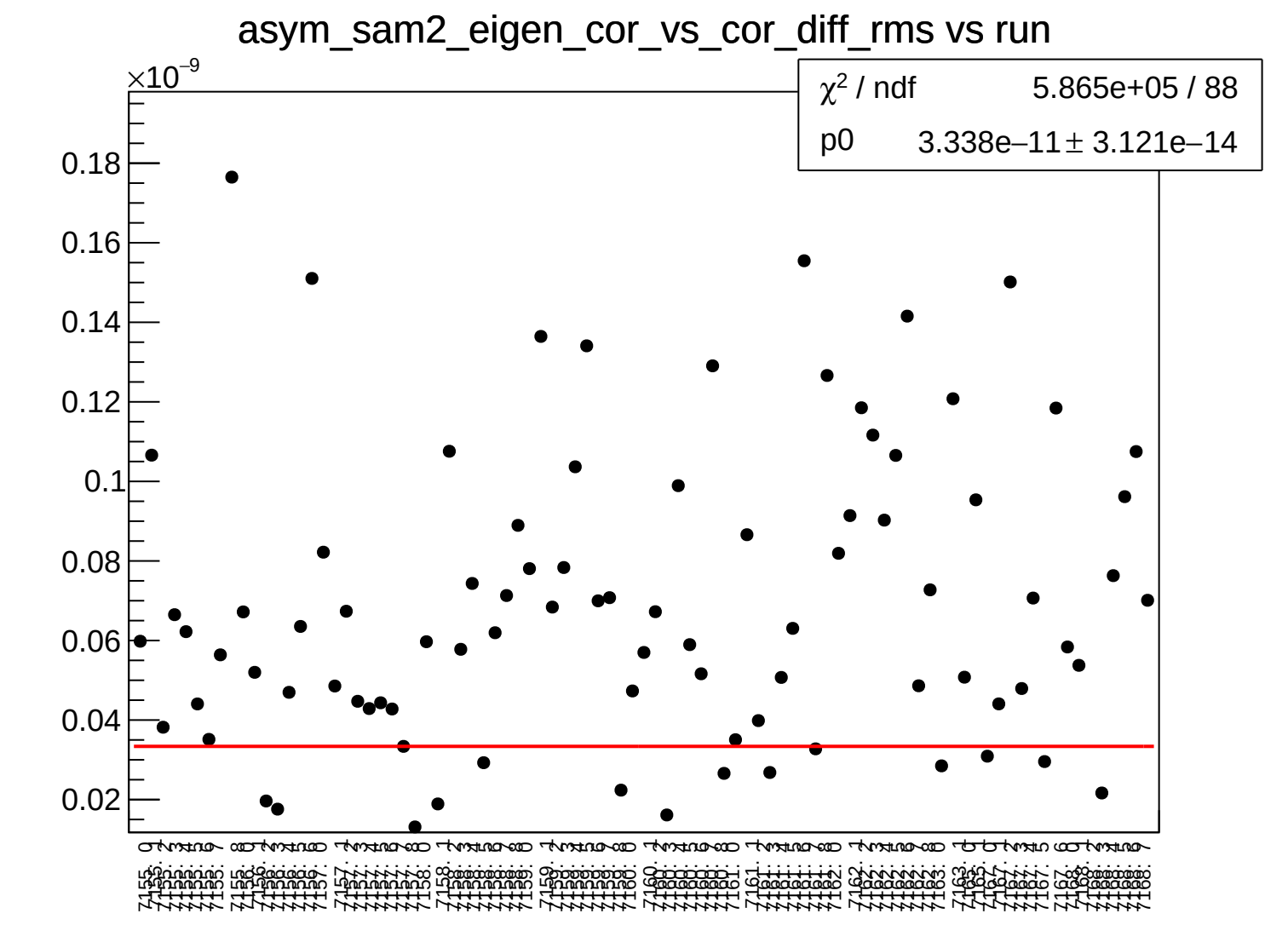

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.52 / 88
p0 −0.12 ± 0.1207
pull
Entries 89
Mean 131.5
Std Dev 53.39

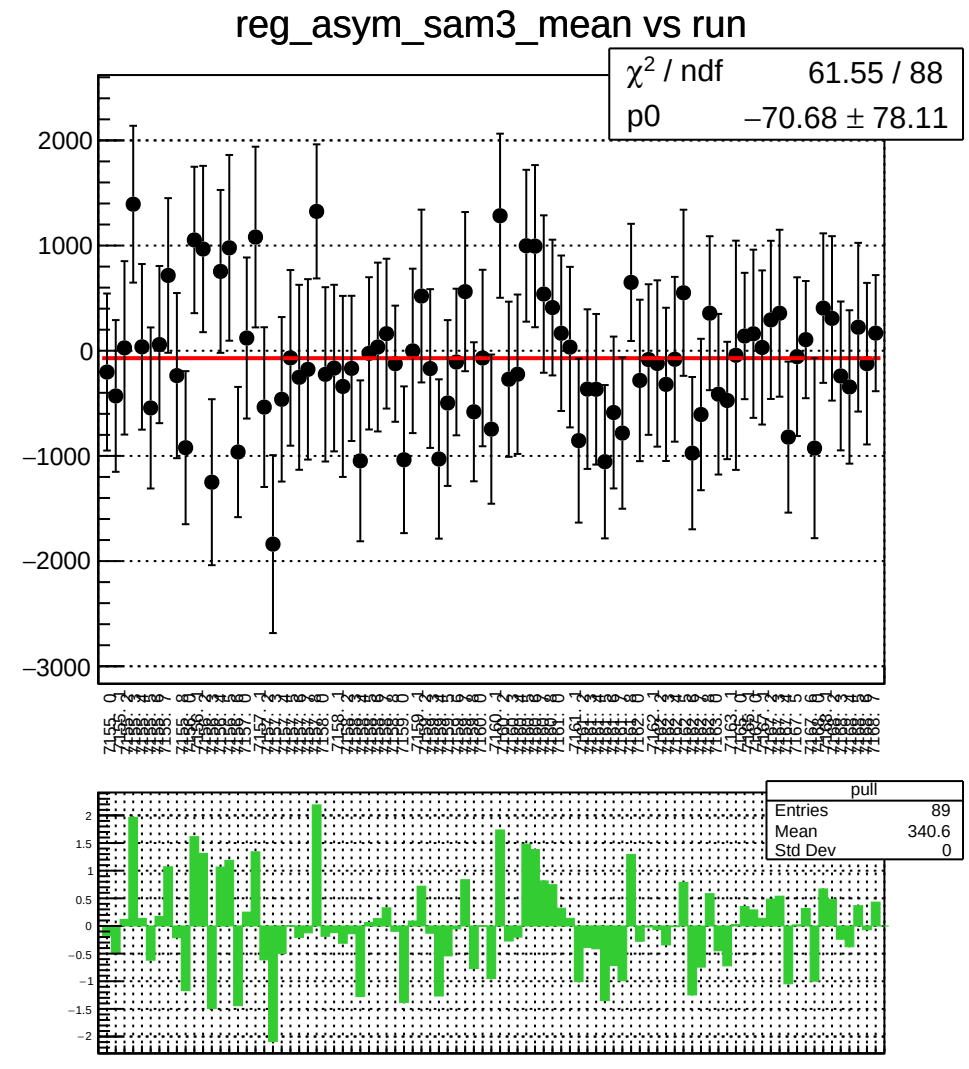

pull1D
Entries 89
Mean −0.01818
Std Dev 0.9915

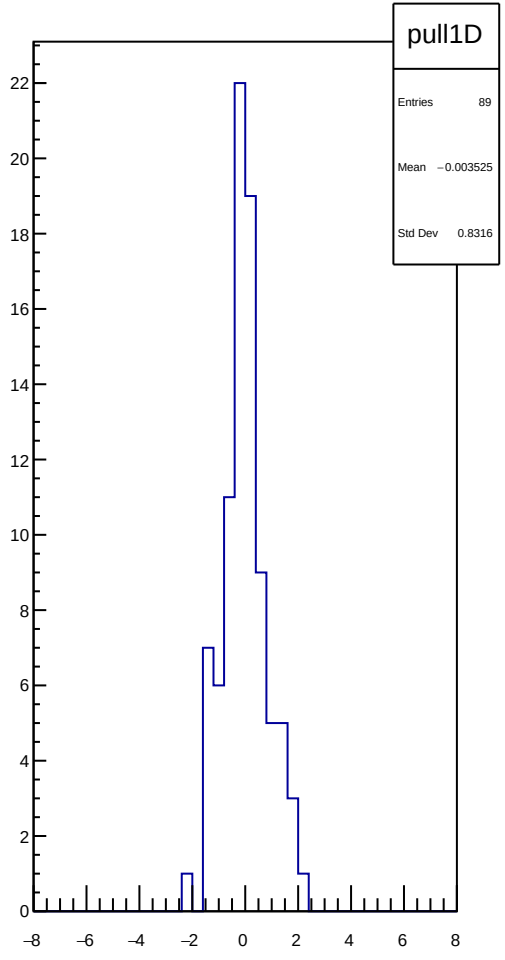

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.026e+04 / 88
p0 111.9 ± 0.08532
140
130
120
110
100
90

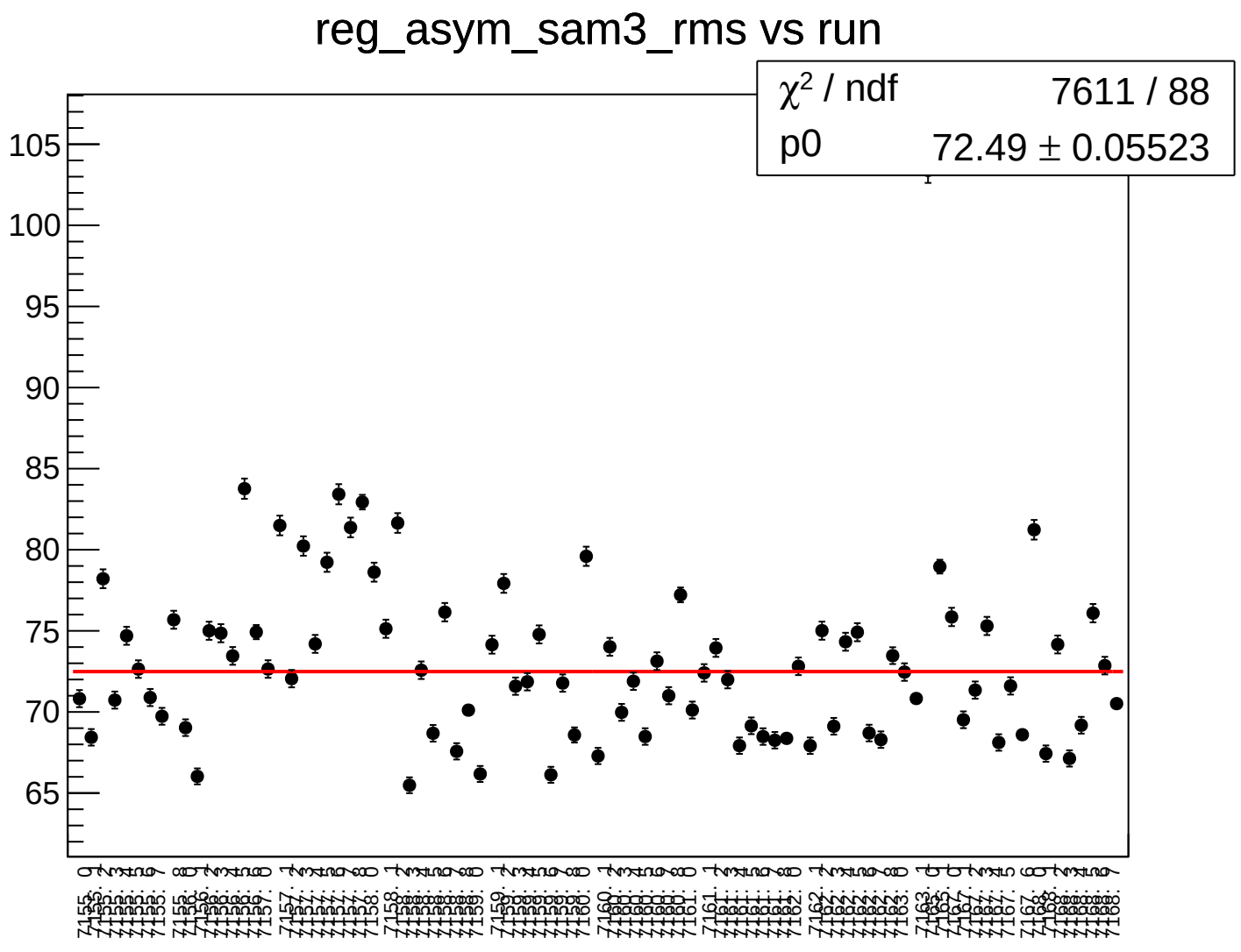

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.16 / 88
p0 −7.941e−14 ± 4.414e−14
pull
Entries 89
Mean 418.3
Std Dev 0

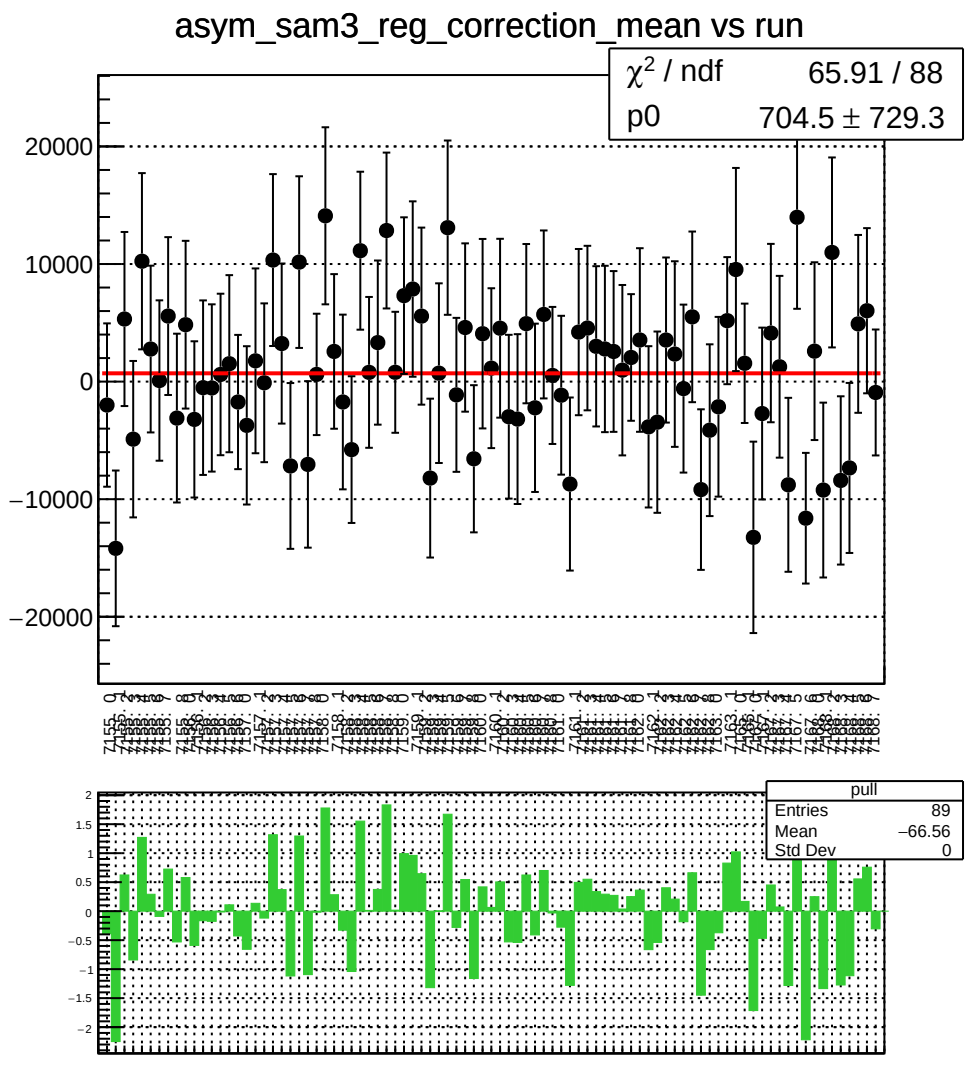

pull1D
Entries 89
Mean 0.01191
Std Dev 0.925

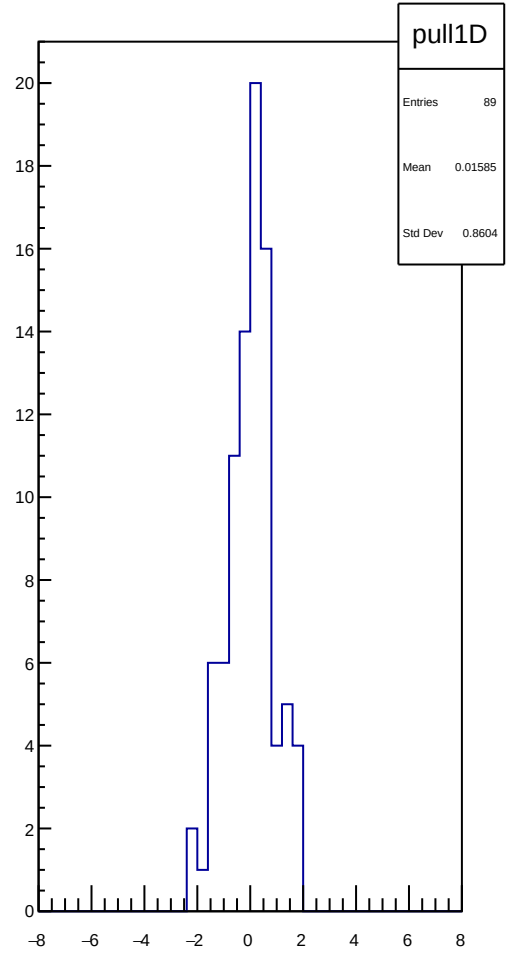

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.865e+05 / 88
p0 3.338e−11 ± 3.121e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

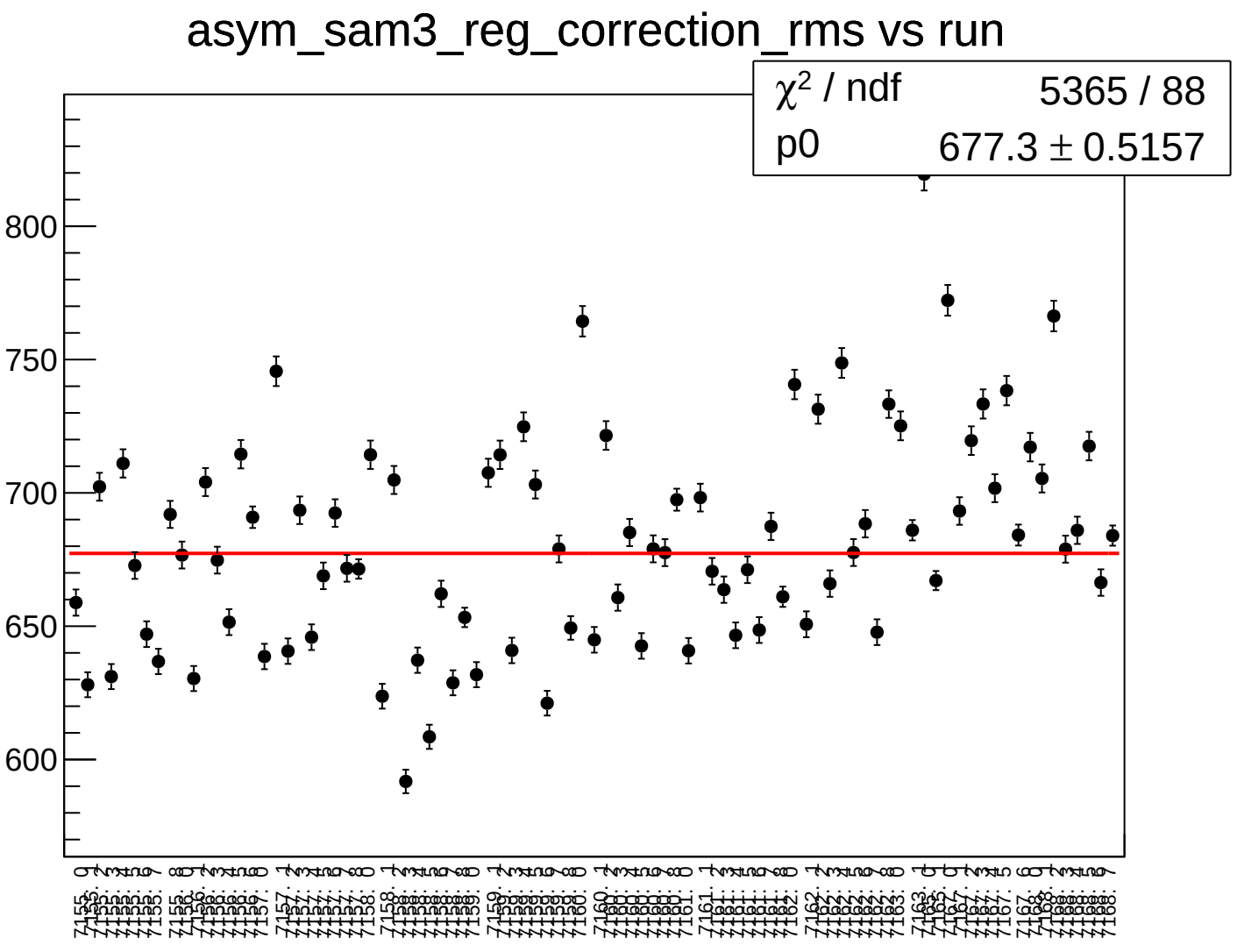

reg_asym_sam3_mean vs run
χ² / ndf 61.55 / 88
p0 −70.68 ± 78.11
pull
Entries 89
Mean 340.6
Std Dev 0

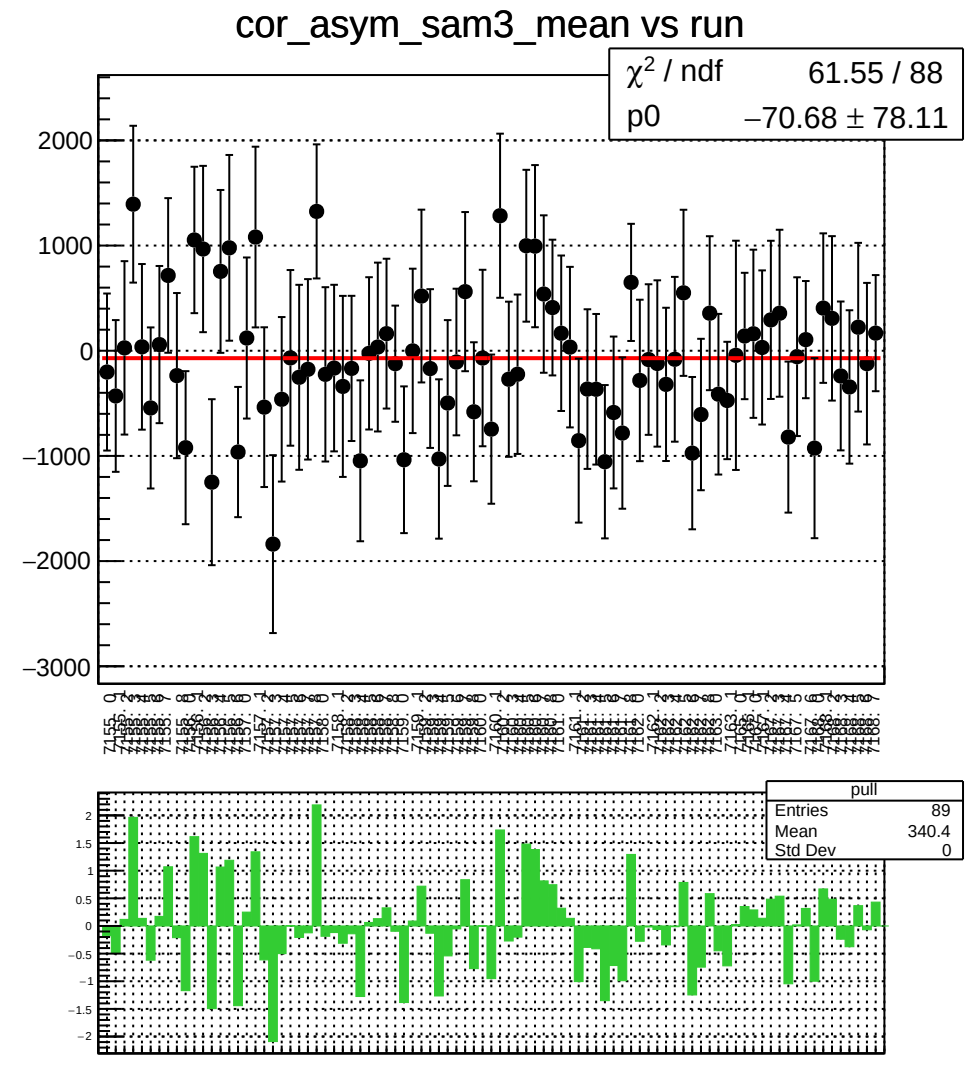

pull1D
Entries 89
Mean −0.003525
Std Dev 0.8316

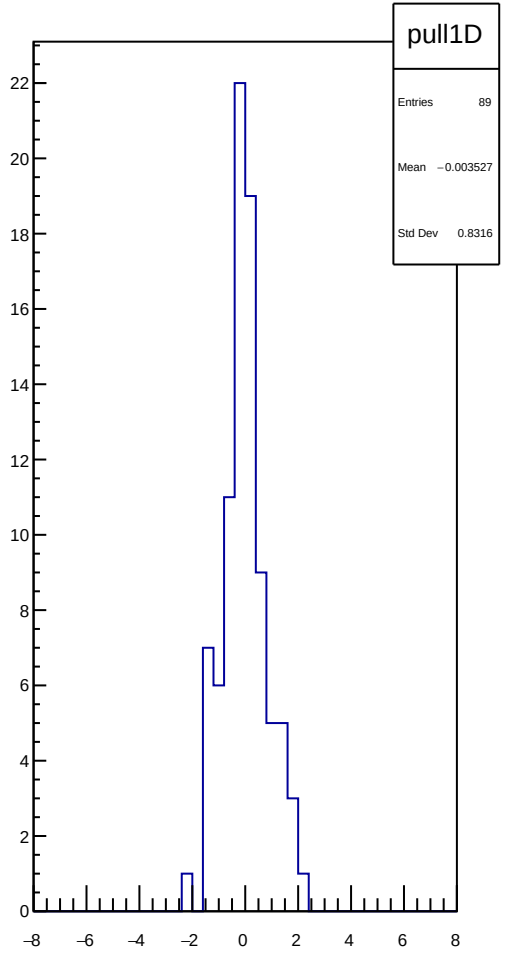

reg_asym_sam3_rms vs run
χ² / ndf 7611 / 88
p0 72.49 ± 0.05523
105
100
95
90
85
80
75
70
65

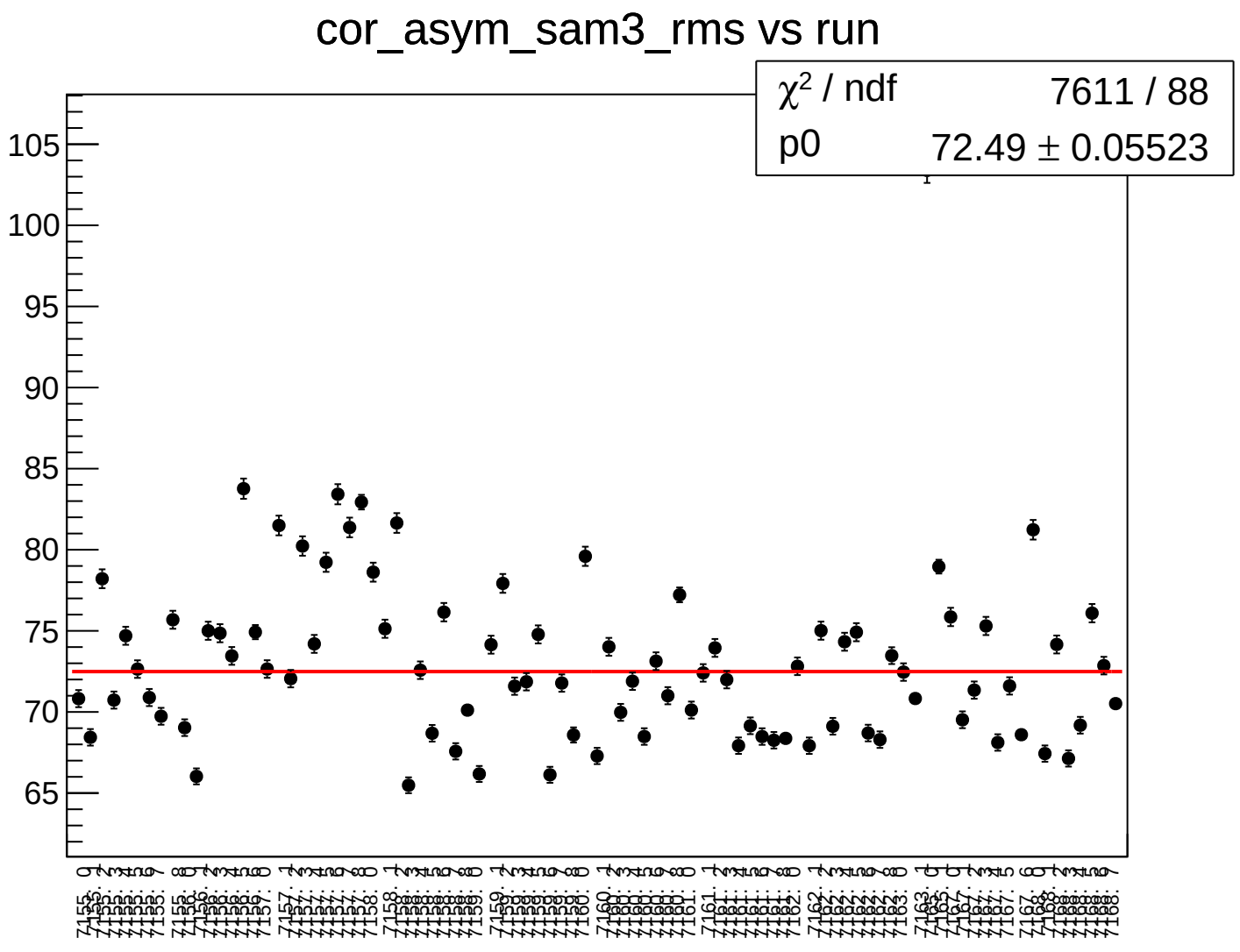

asym_sam3_reg_correction_mean vs run
χ² / ndf 65.91 / 88
p0 704.5 ± 729.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −66.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

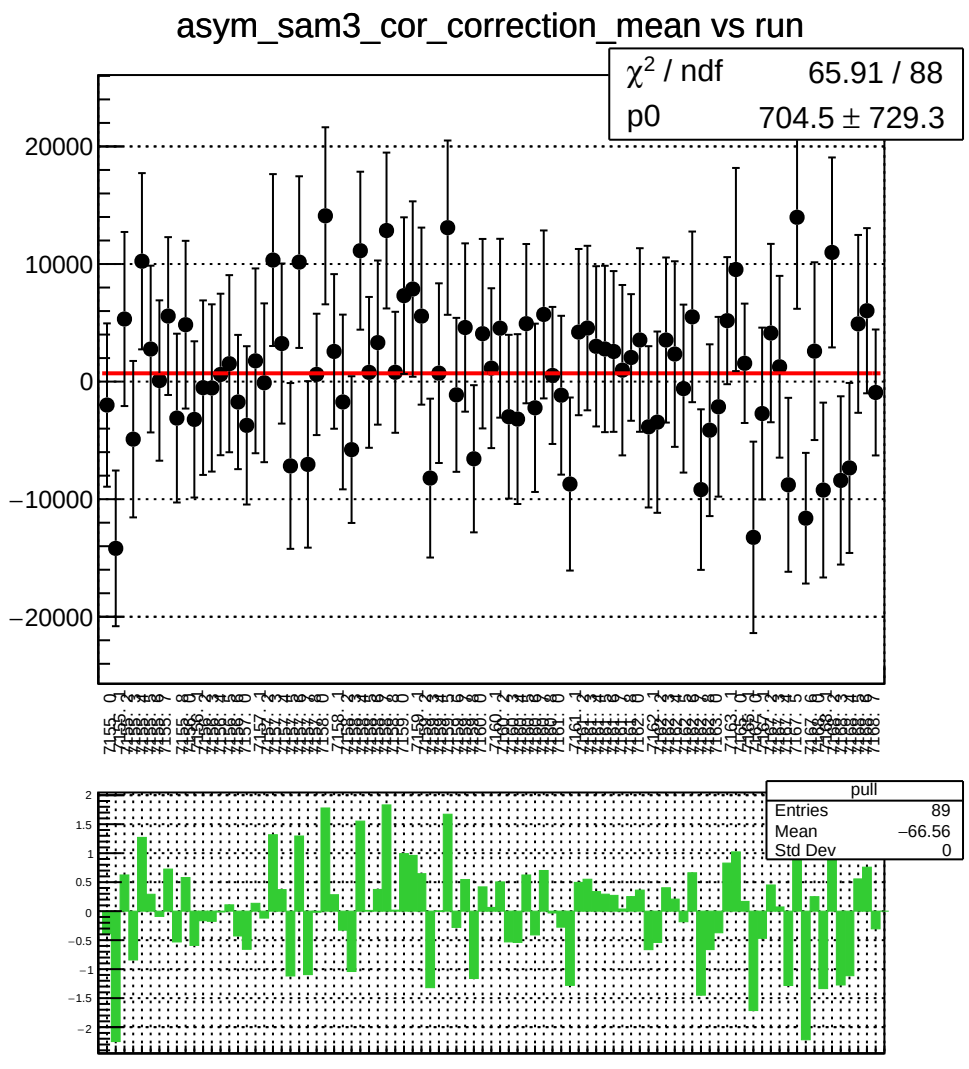

pull1D
Entries 89
Mean 0.01585
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

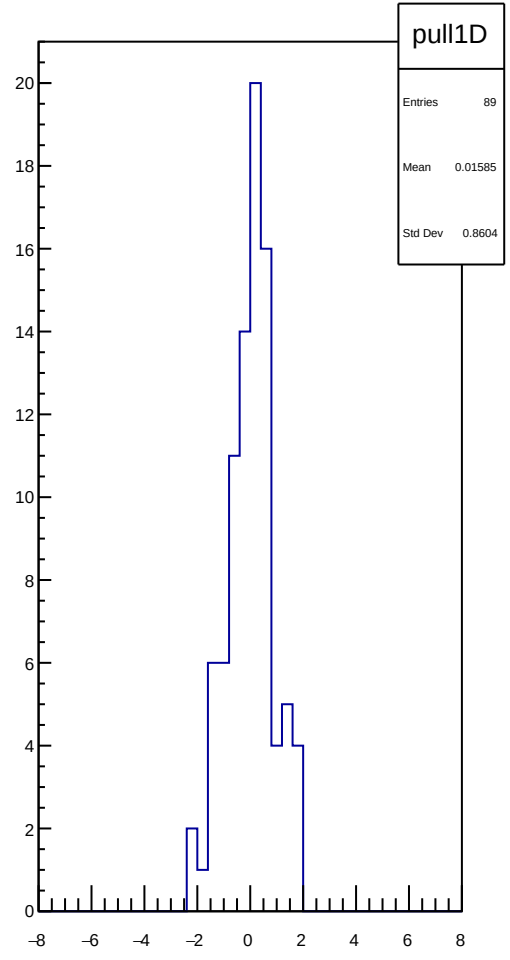

asym_sam3_reg_correction_rms vs run
χ² / ndf 5365 / 88
p0 677.3 ± 0.5157
800
750
700
650
600

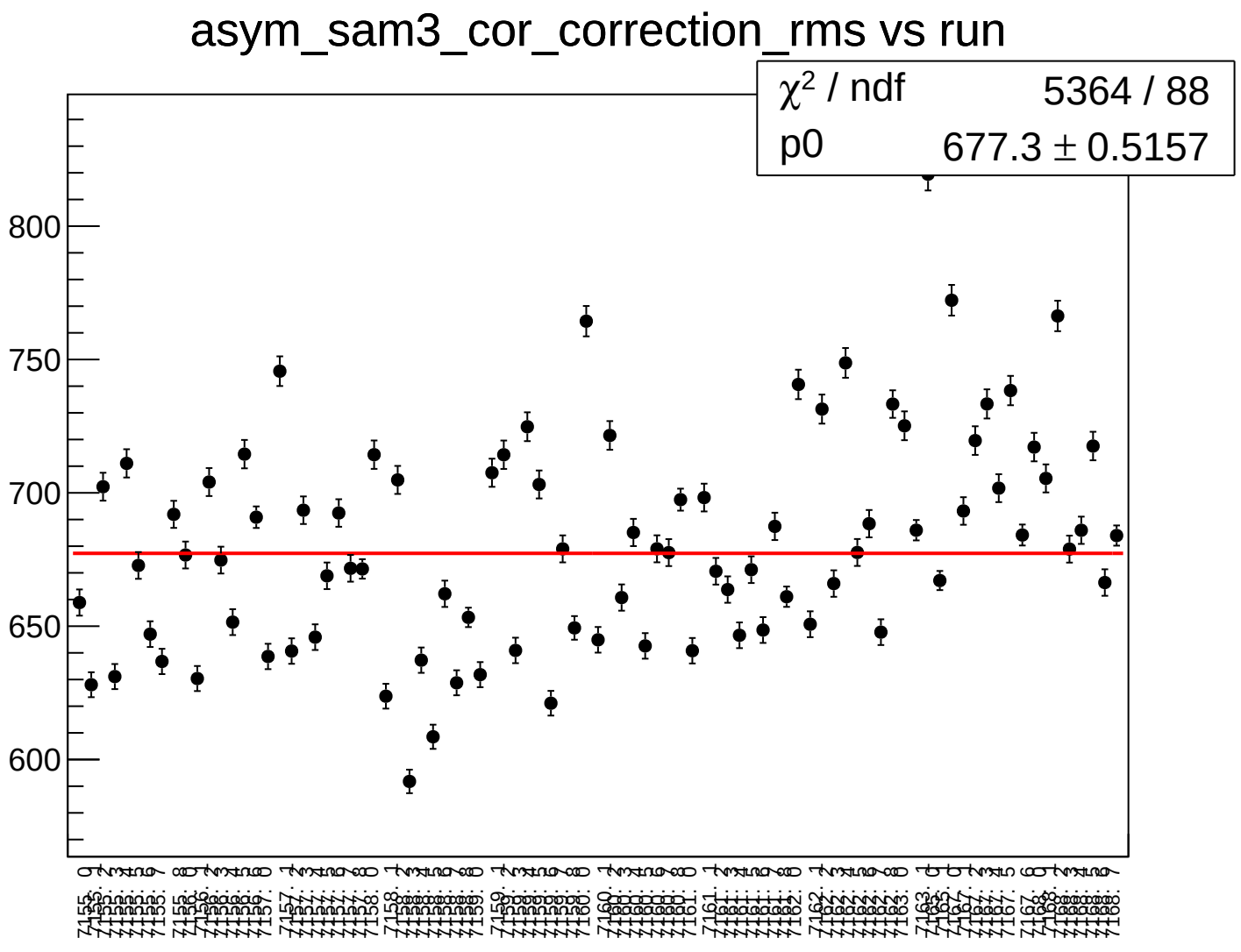

cor_asym_sam3_mean vs run
χ² / ndf 61.55 / 88
p0 −70.68 ± 78.11
pull
Entries 89
Mean 340.4
Std Dev 0

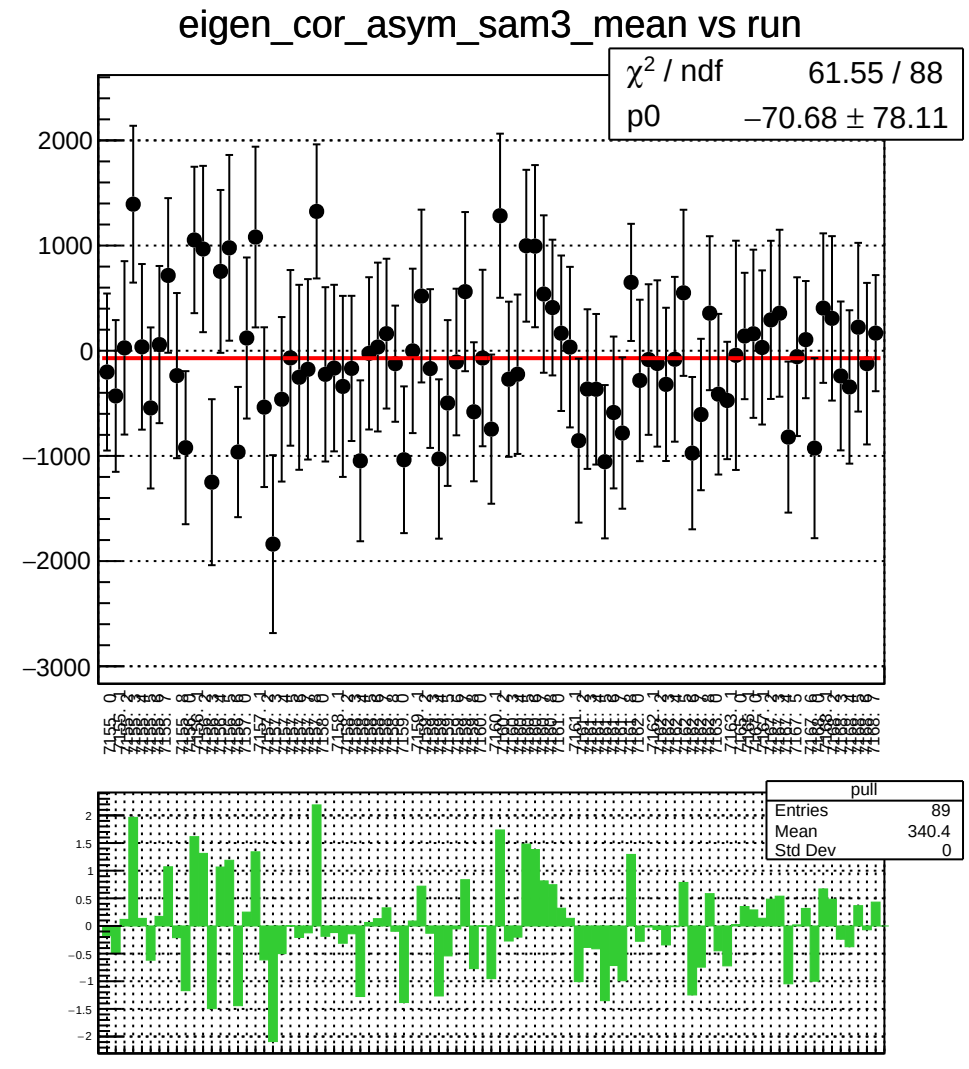

pull1D
Entries 89
Mean −0.003527
Std Dev 0.8316

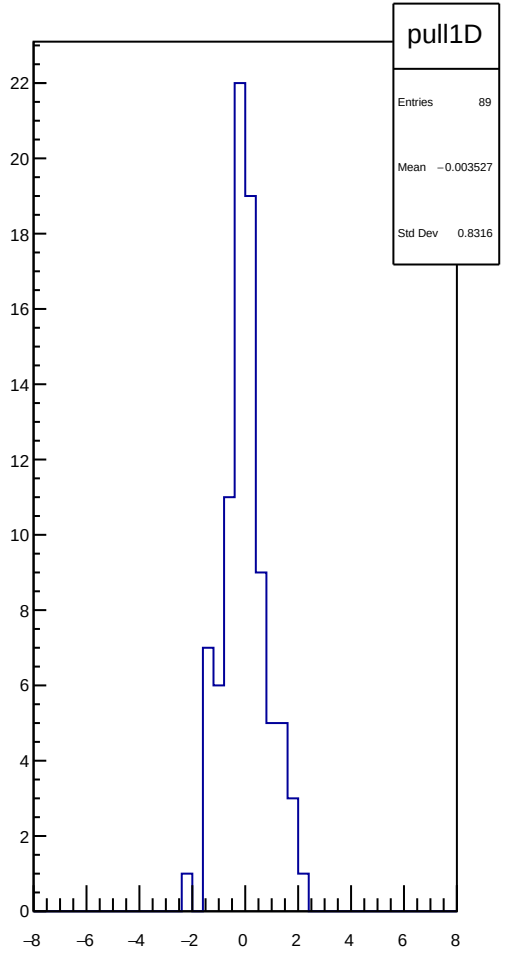

cor_asym_sam3_rms vs run
χ² / ndf 7611 / 88
p0 72.49 ± 0.05523
105
100
95
90
85
80
75
70
65

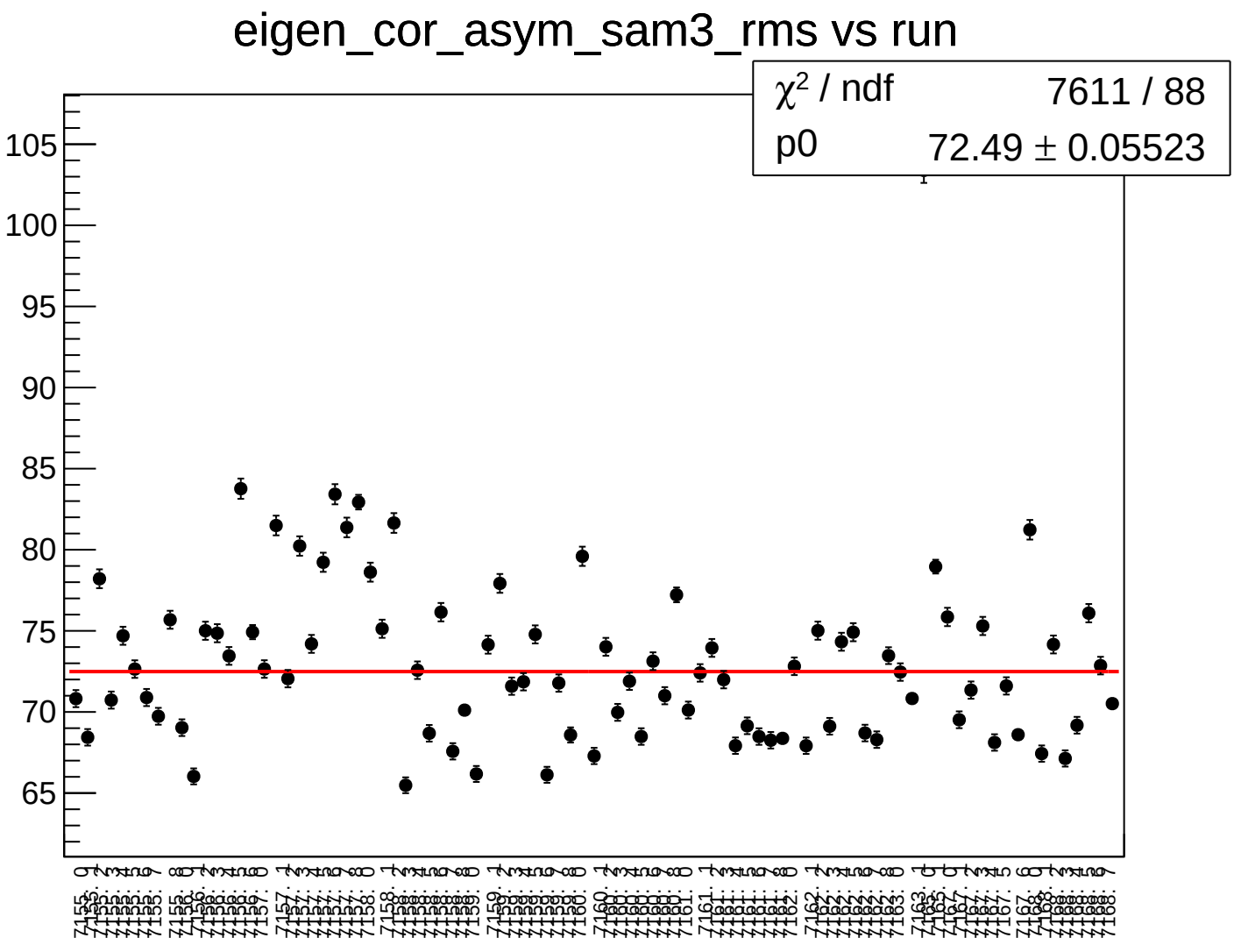

asym_sam3_cor_correction_mean vs run
χ² / ndf 65.91 / 88
p0 704.5 ± 729.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −66.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

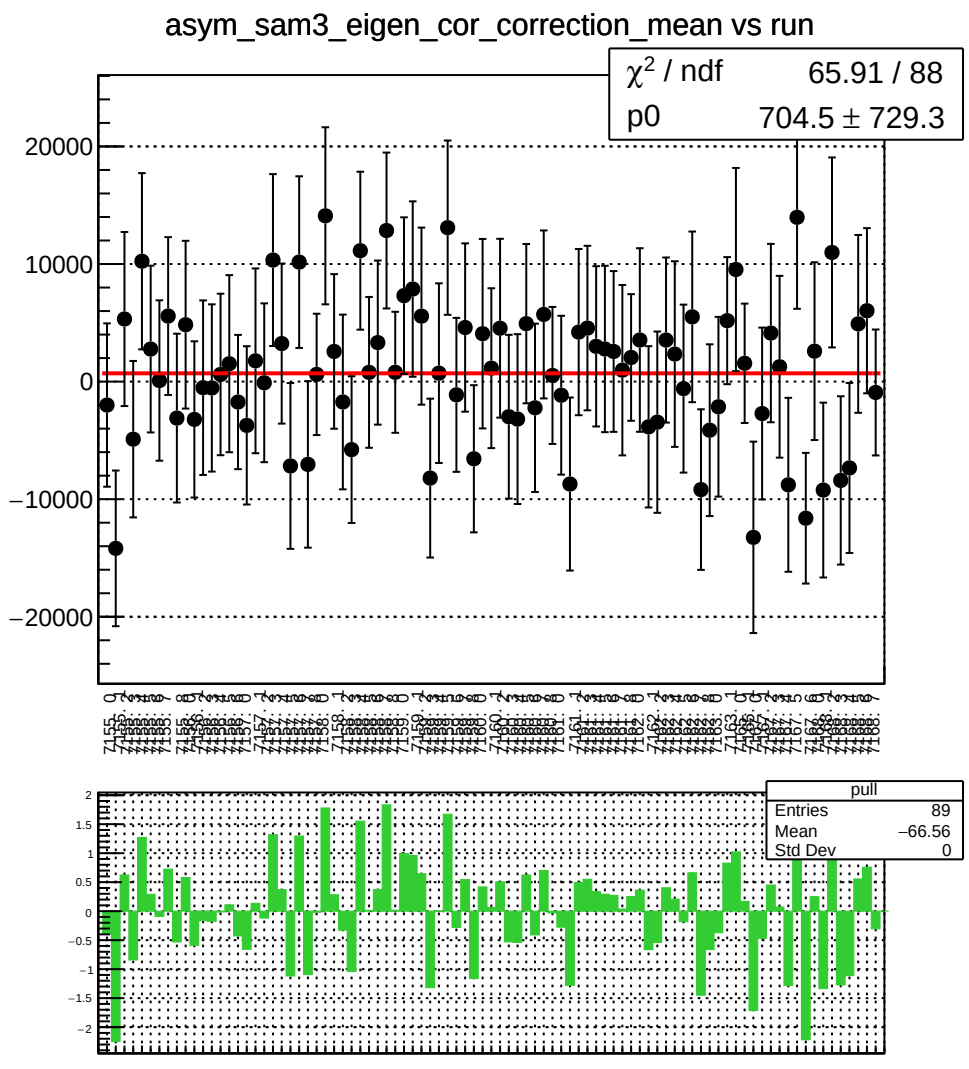

pull1D
Entries 89
Mean 0.01585
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

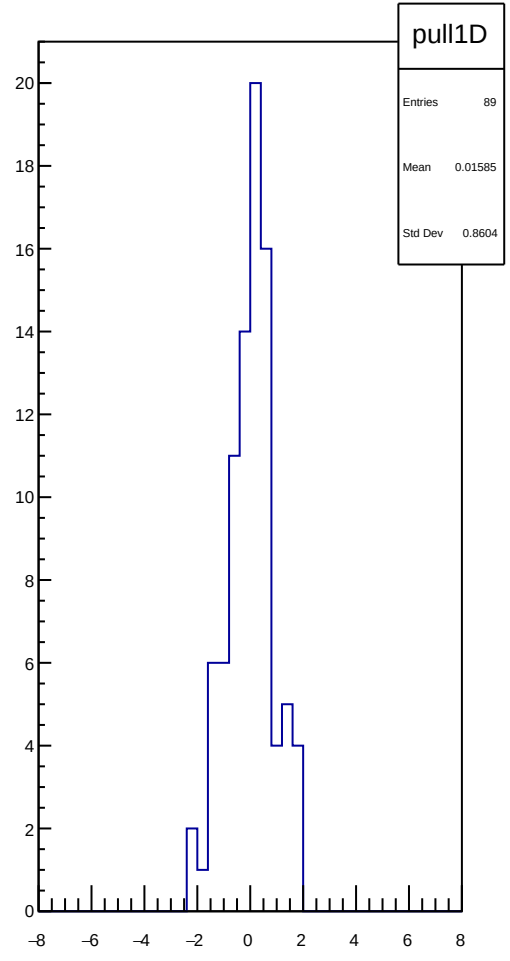

asym_sam3_cor_correction_rms vs run
χ² / ndf 5364 / 88
p0 677.3 ± 0.5157
800
750
700
650
600

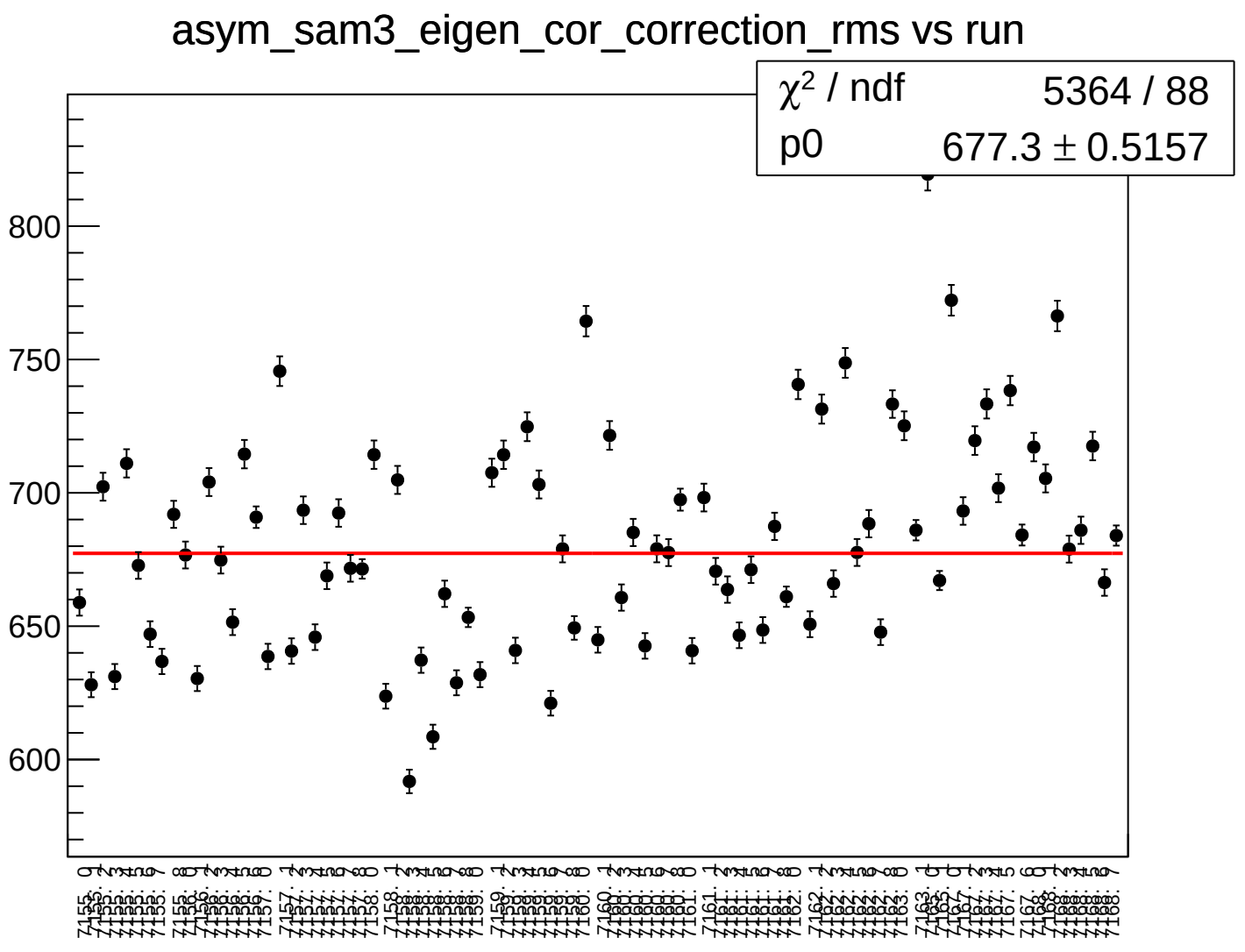

eigen_cor_asym_sam3_mean vs run
χ² / ndf 61.55 / 88
p0 −70.68 ± 78.11
pull
Entries 89
Mean 340.4
Std Dev 0

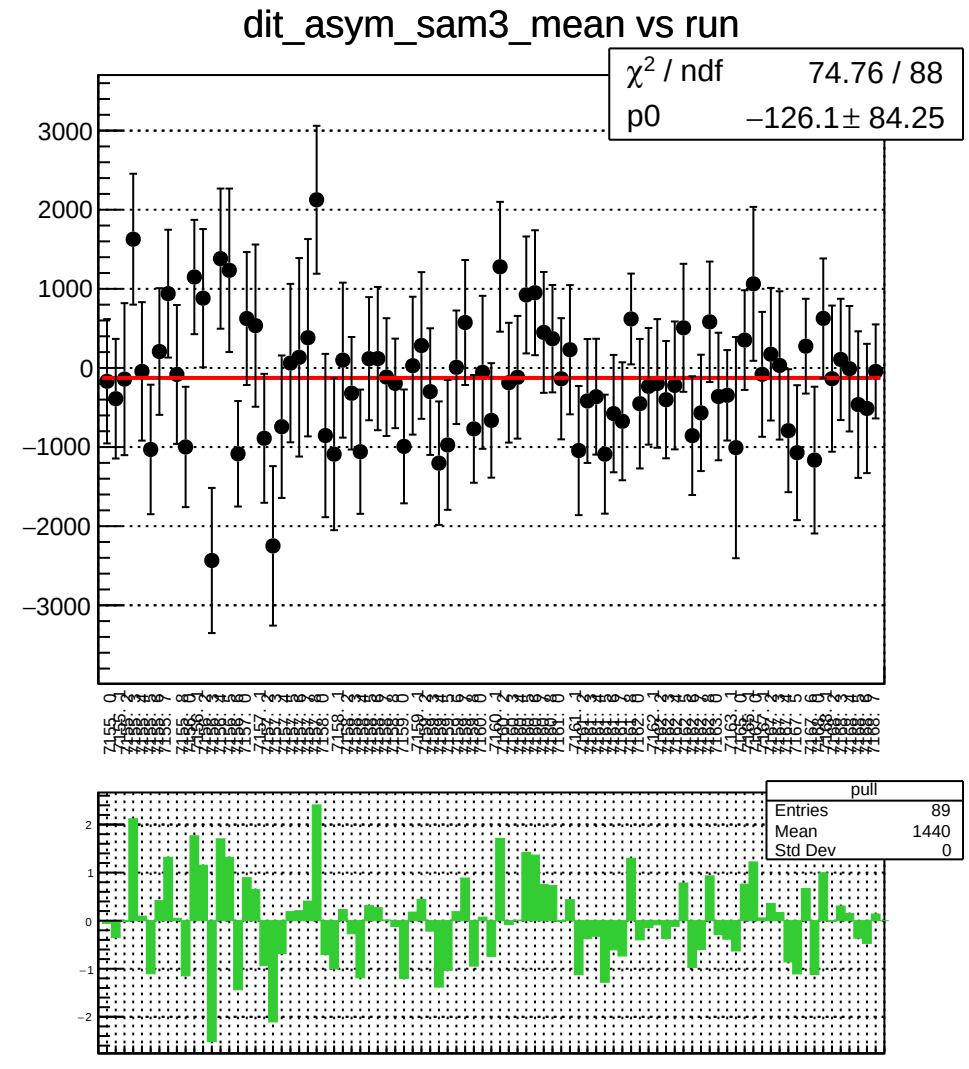

pull1D
Entries 89
Mean −0.003527
Std Dev 0.8316

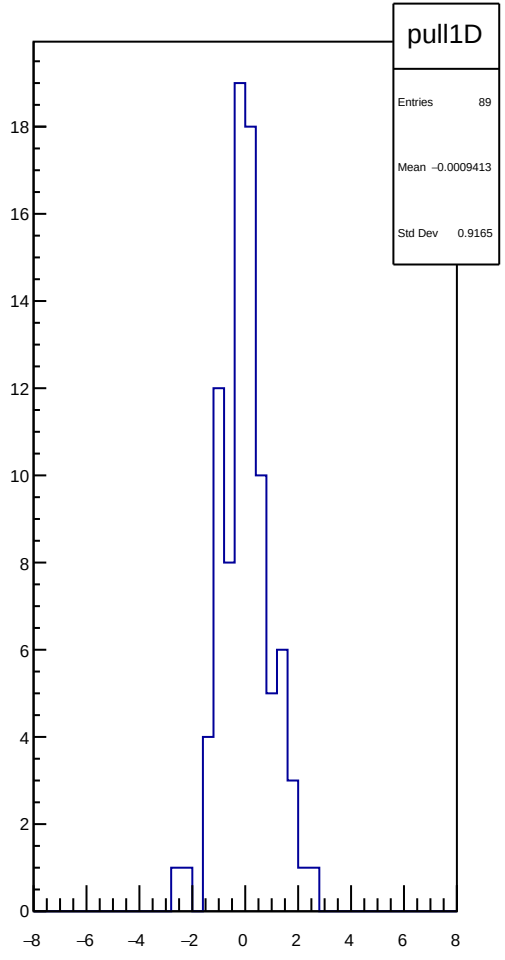

eigen_cor_asym_sam3_rms vs run
χ² / ndf 7611 / 88
p0 72.49 ± 0.05523
105
100
95
90
85
80
75
70
65

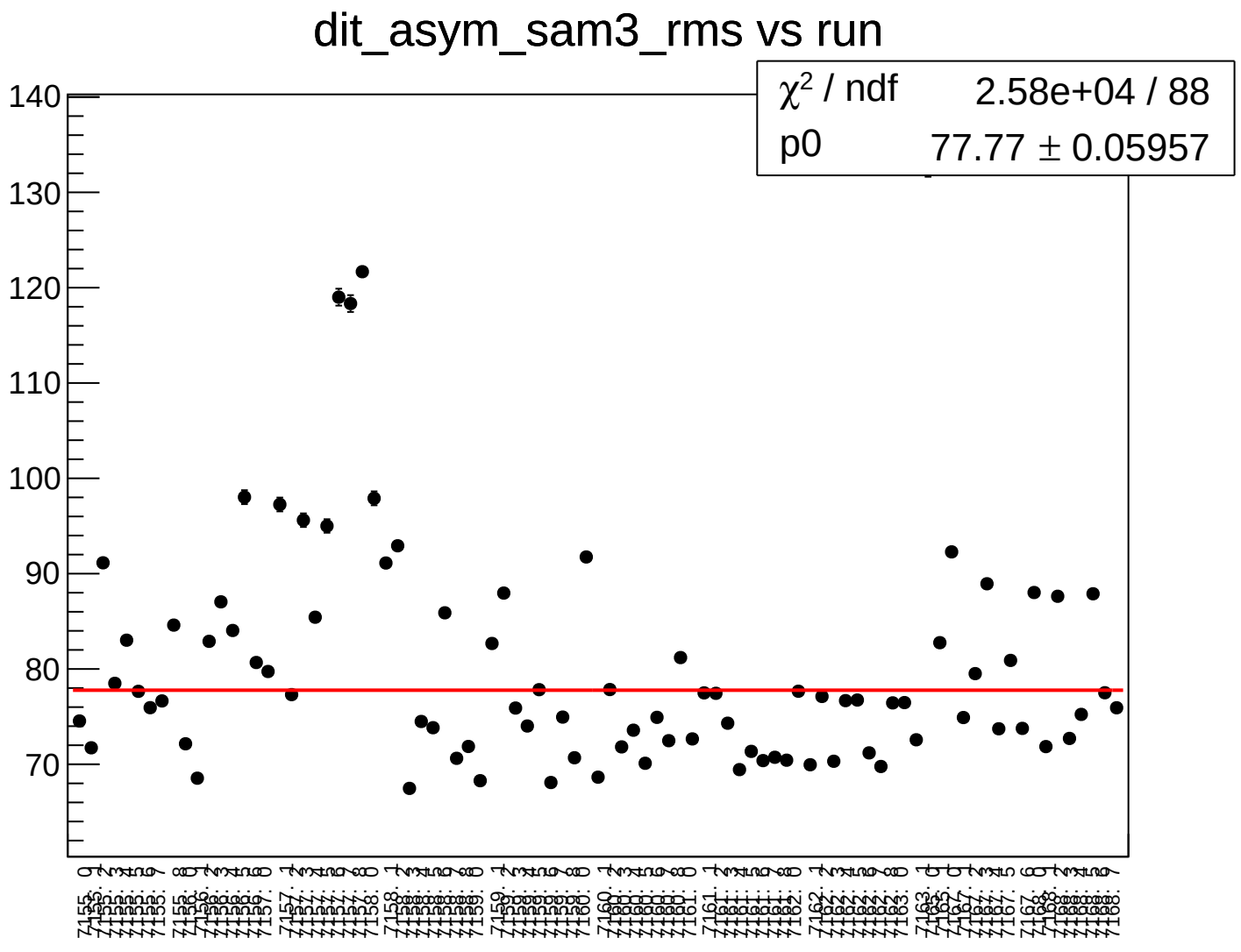

asym_sam3_eigen_cor_correction_mean vs run
χ² / ndf 65.91 / 88
p0 704.5 ± 729.3
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −66.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

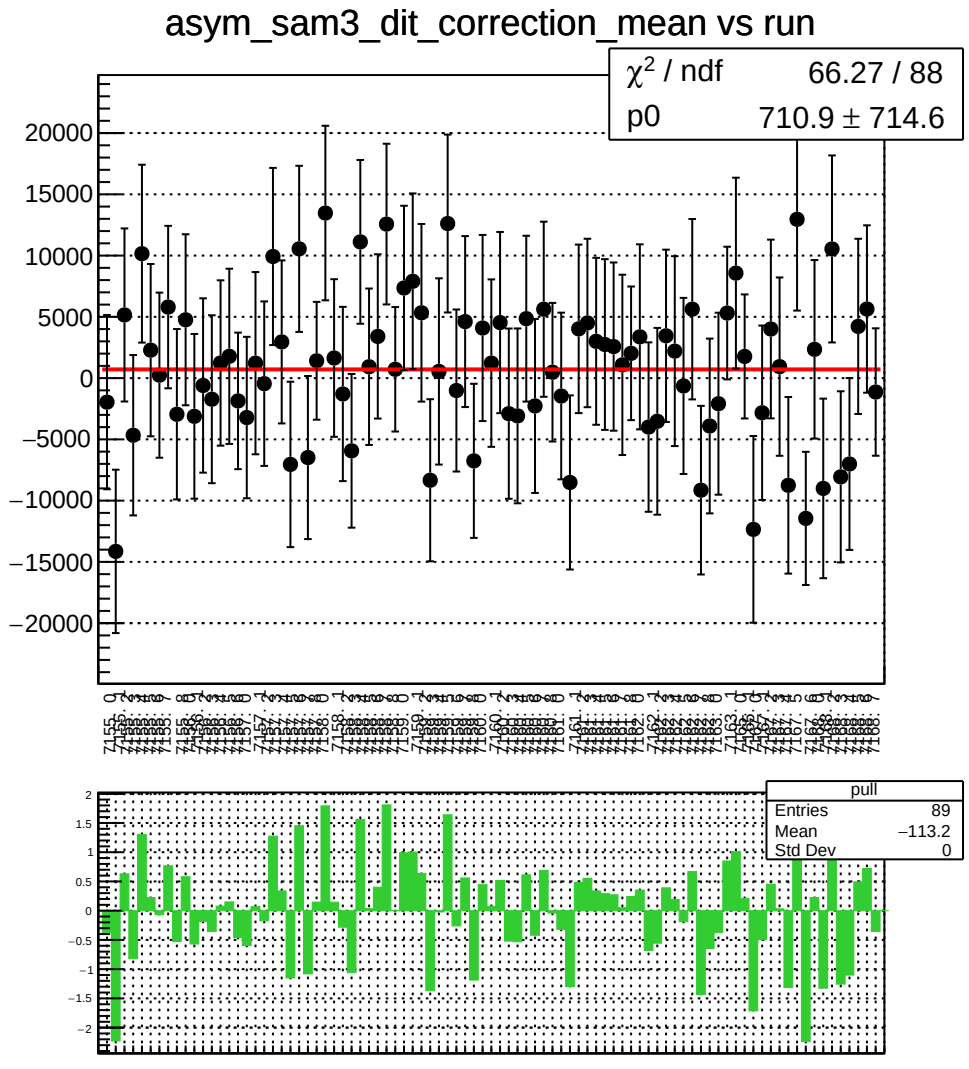

pull1D
Entries 89
Mean 0.01585
Std Dev 0.8604
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

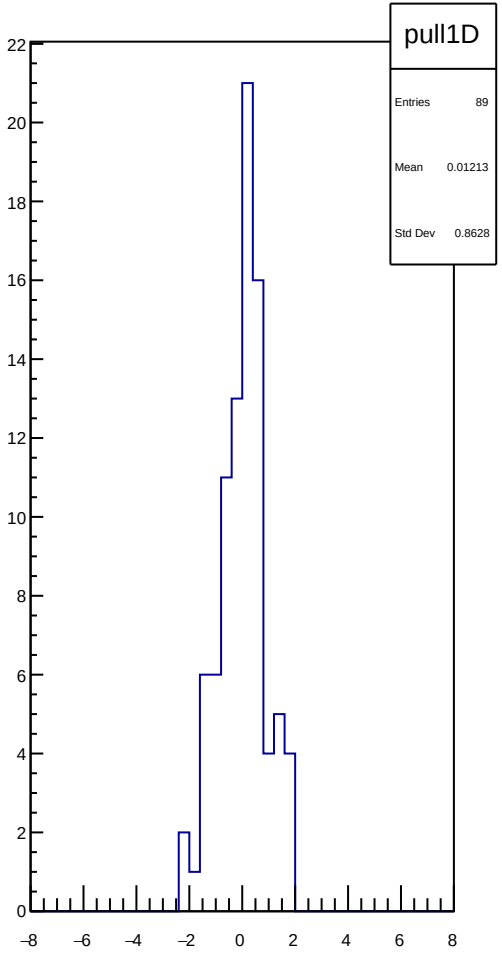

asym_sam3_eigen_cor_correction_rms vs run
χ^2 / ndf 5364 / 88
p0 677.3 ± 0.5157
800
750
700
650
600

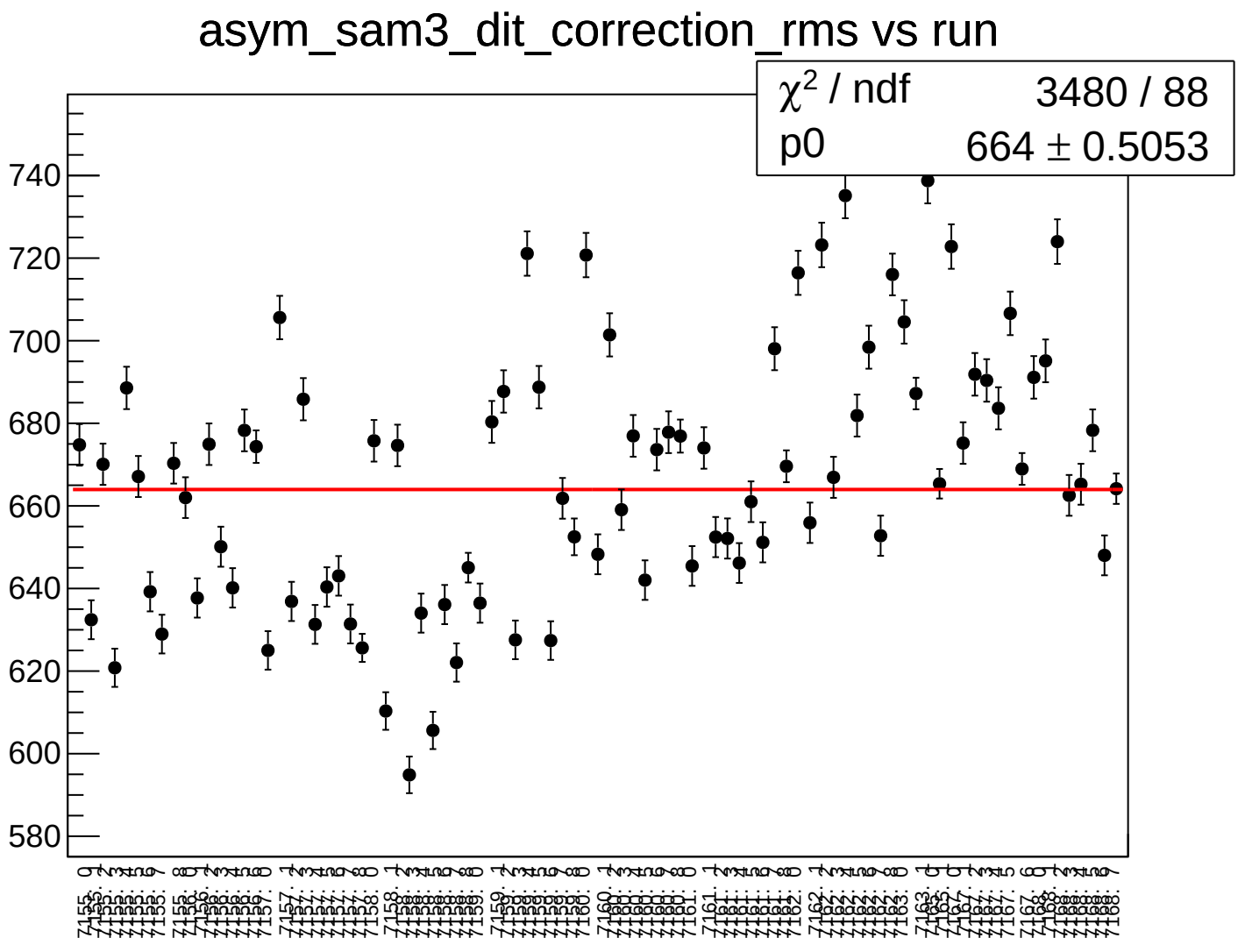

dit_asym_sam3_mean vs run
χ² / ndf 74.76 / 88
p0 −126.1± 84.25
pull
Entries 89
Mean 1440
Std Dev 0

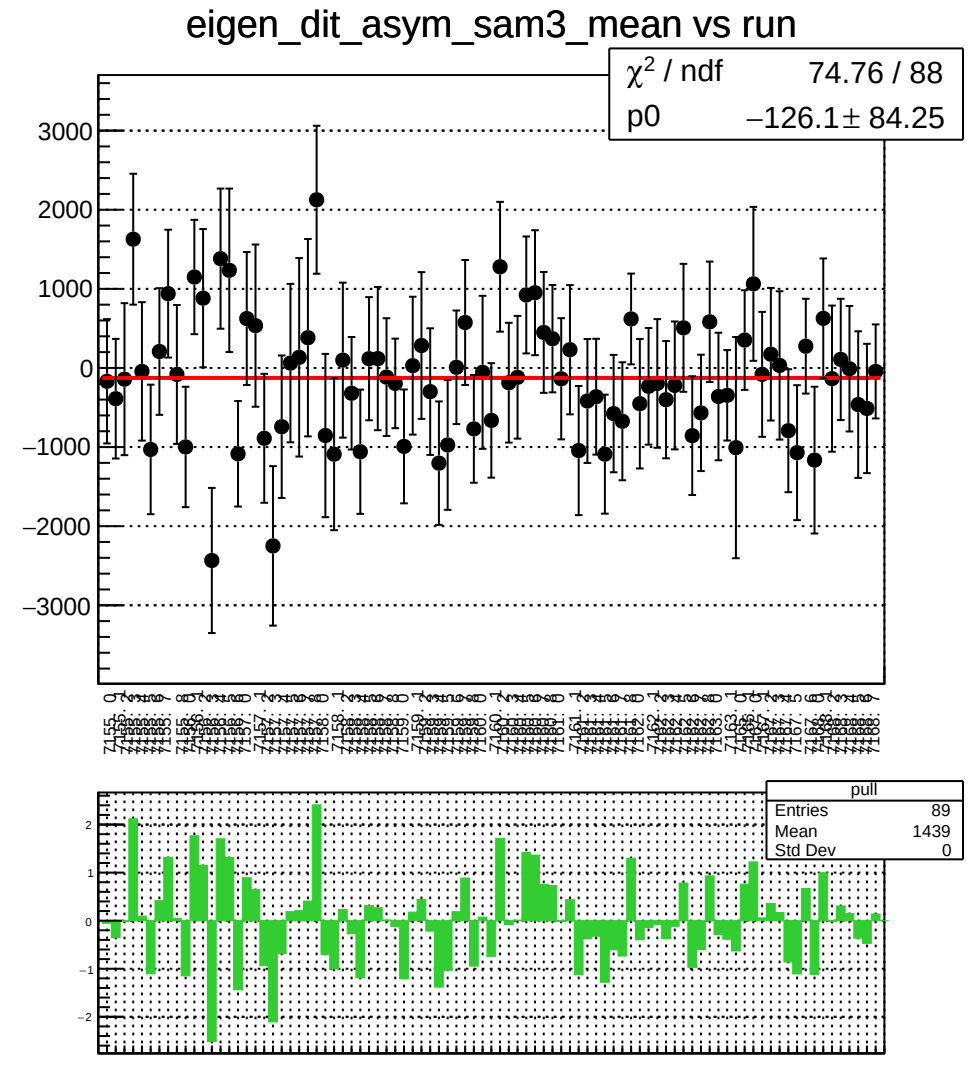

pull1D
Entries 89
Mean −0.0009413
Std Dev 0.9165

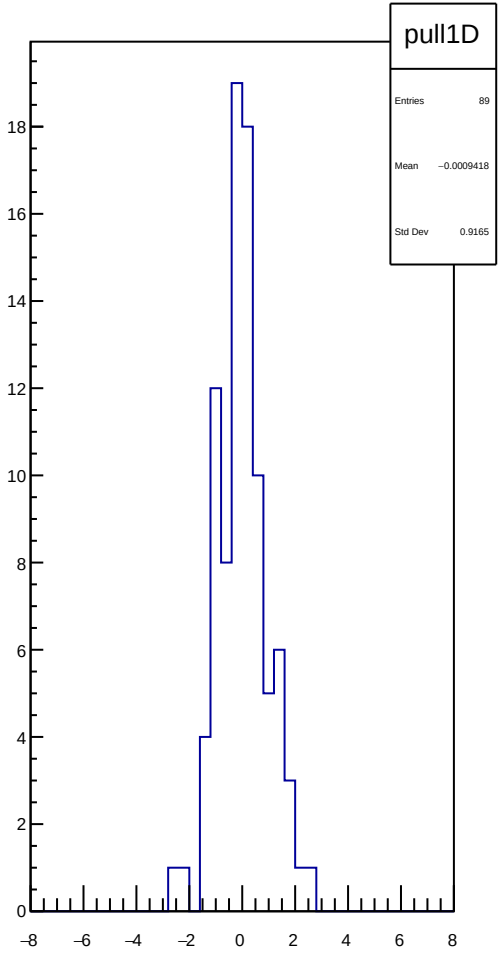

dit_asym_sam3_rms vs run
χ^2 / ndf 2.58e+04 / 88
p0 77.77 ± 0.05957
140
130
120
110
100
90
80
70

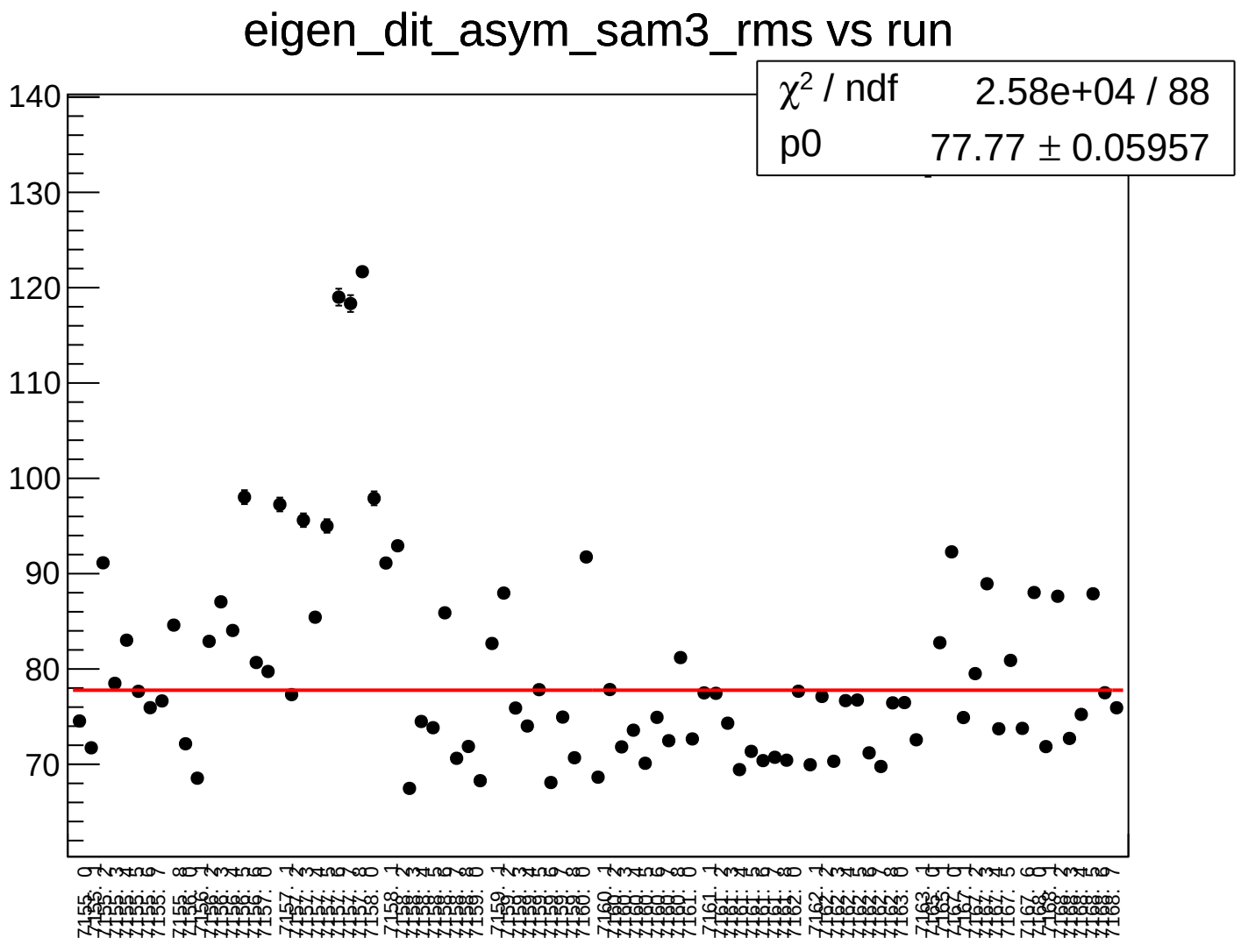

asym_sam3_dit_correction_mean vs run
χ² / ndf 66.27 / 88
p0 710.9 ± 714.6
pull
Entries 89
Mean −113.2
Std Dev 0

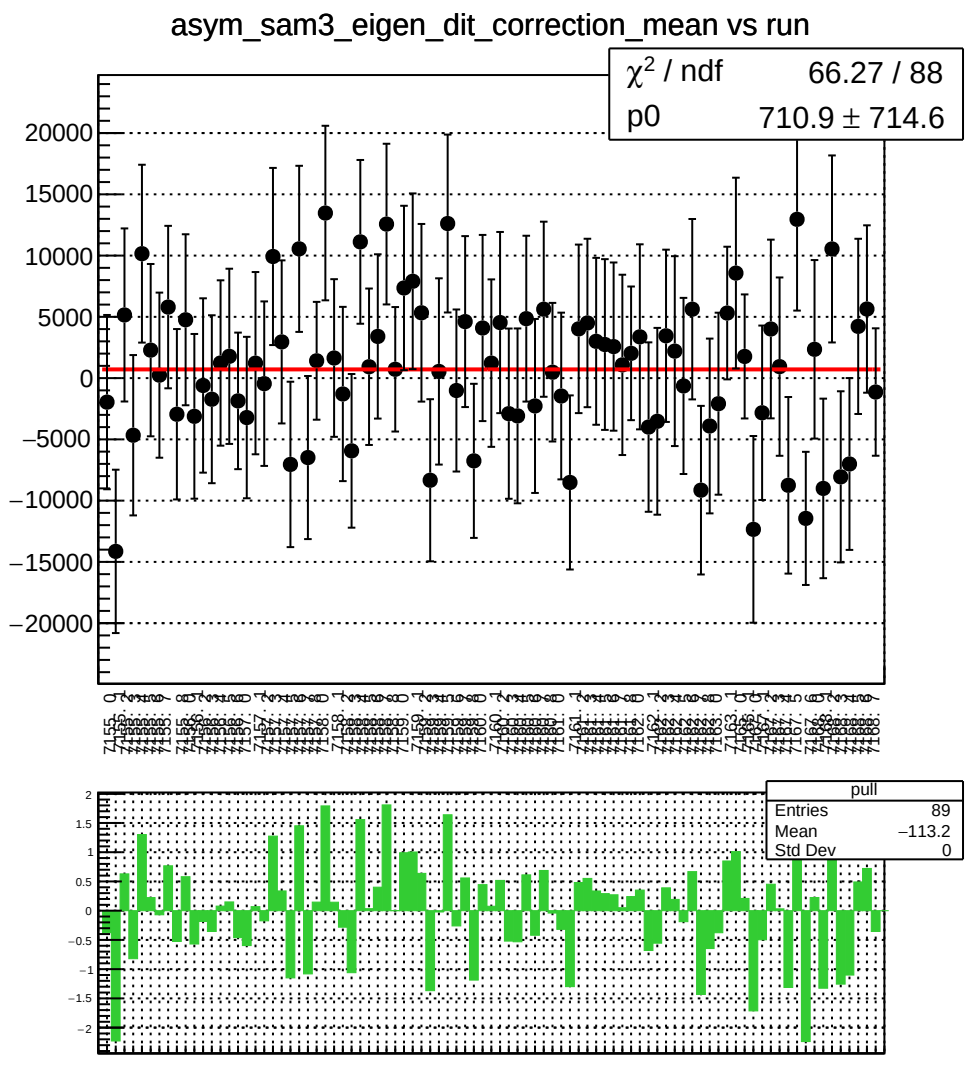

pull1D
Entries 89
Mean 0.01213
Std Dev 0.8628

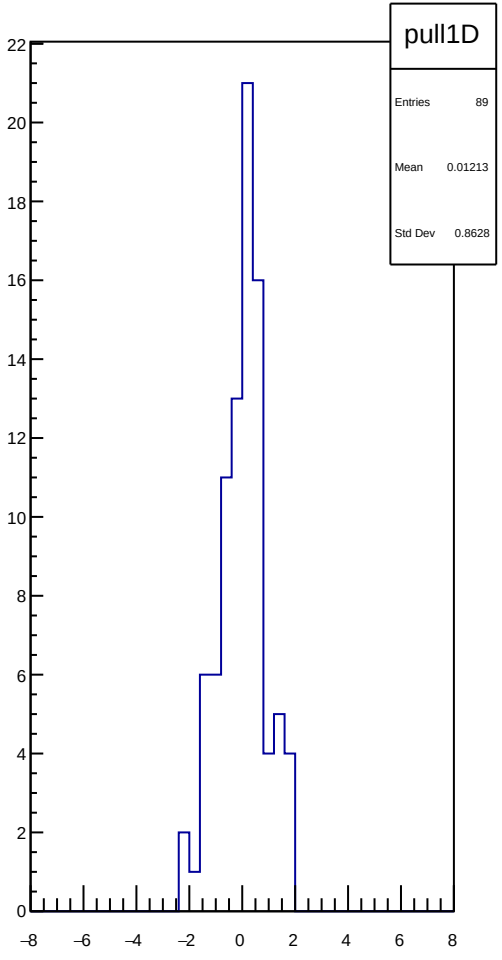

asym_sam3_dit_correction_rms vs run
χ² / ndf 3480 / 88
p0 664 ± 0.5053
740
720
700
680
660
640
620
600
580

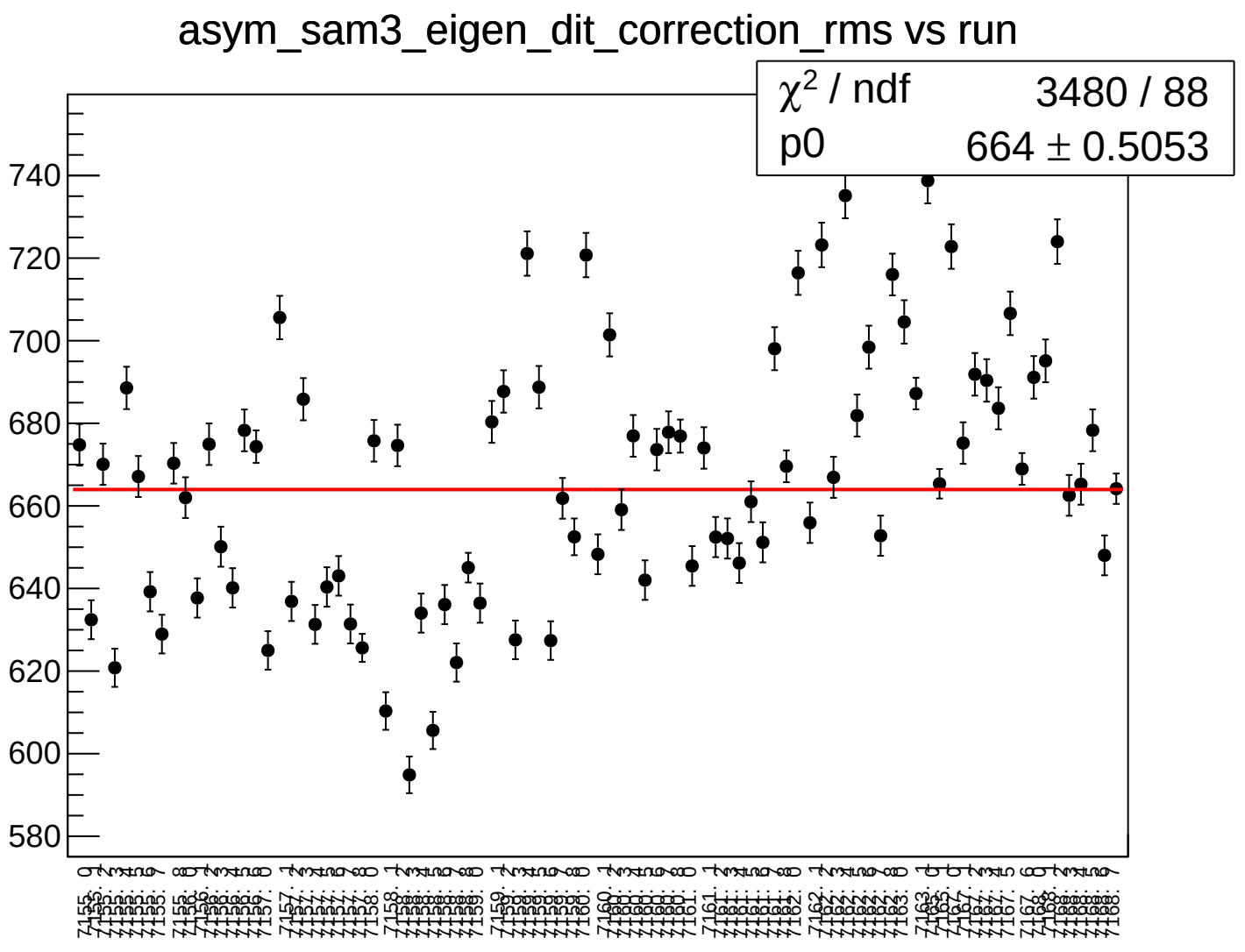

eigen_dit_asym_sam3_mean vs run
χ² / ndf 74.76 / 88
p0 −126.1± 84.25
pull
Entries 89
Mean 1439
Std Dev 0

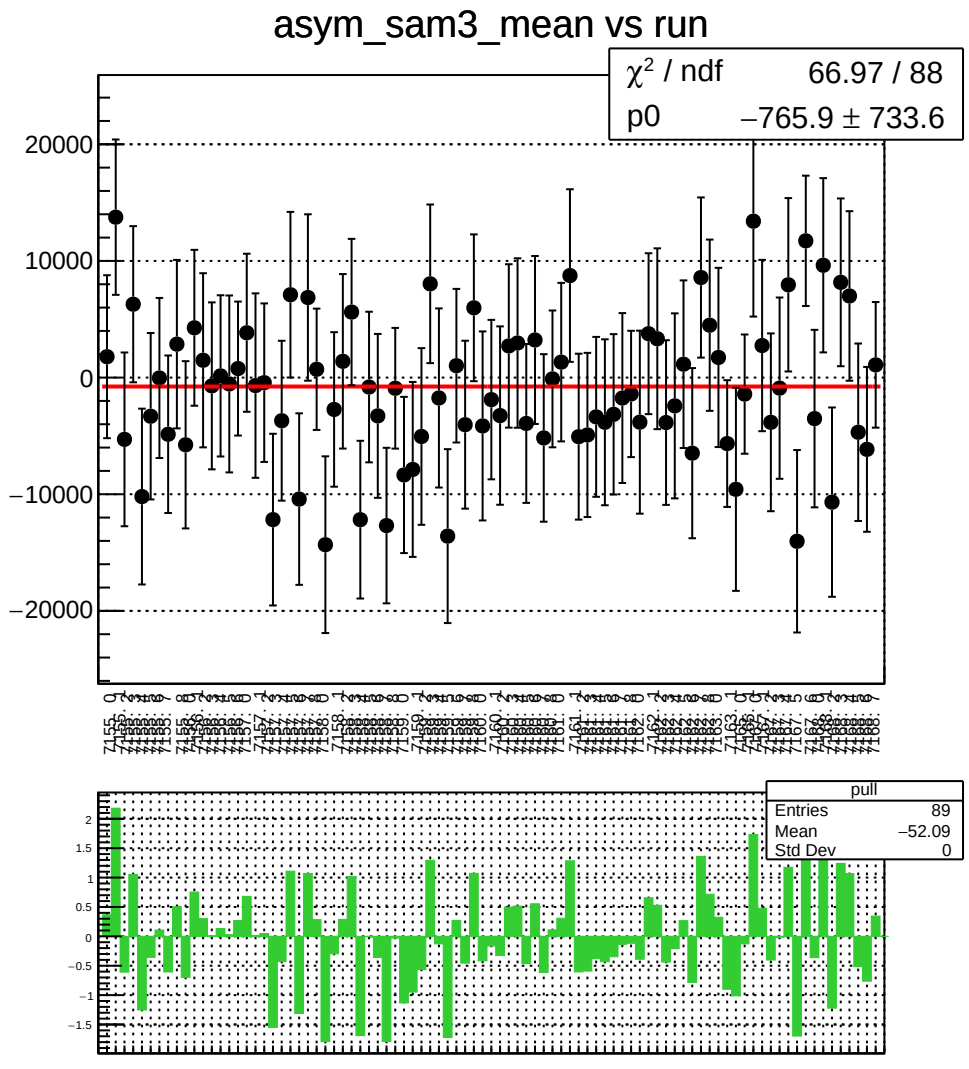

pull1D
Entries 89
Mean −0.0009418
Std Dev 0.9165

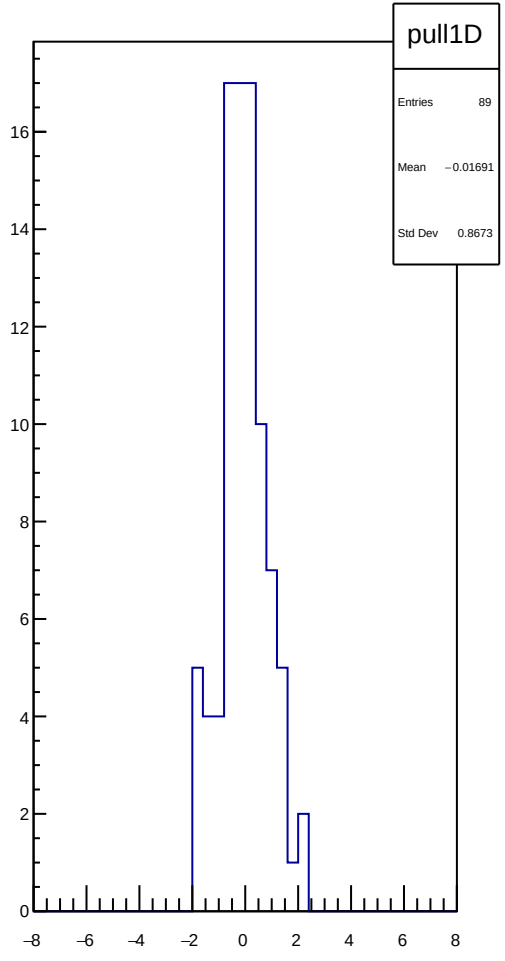

eigen_dit_asym_sam3_rms vs run
χ^2 / ndf 2.58e+04 / 88
p0 77.77 ± 0.05957
140
130
120
110
100
90
80
70

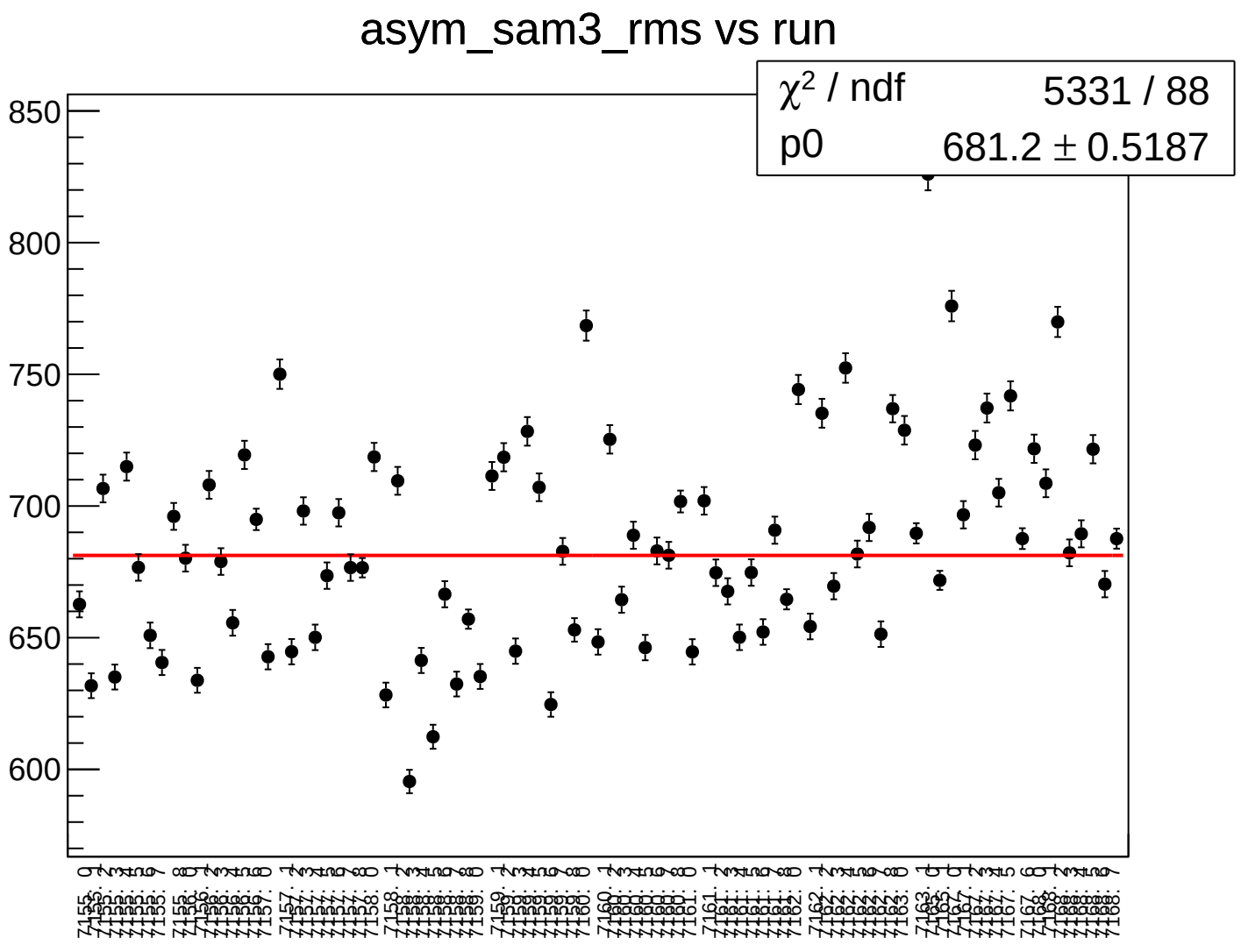

asym_sam3_eigen_dit_correction_mean vs run
χ² / ndf 66.27 / 88
p0 710.9 ± 714.6
pull
Entries 89
Mean −113.2
Std Dev 0

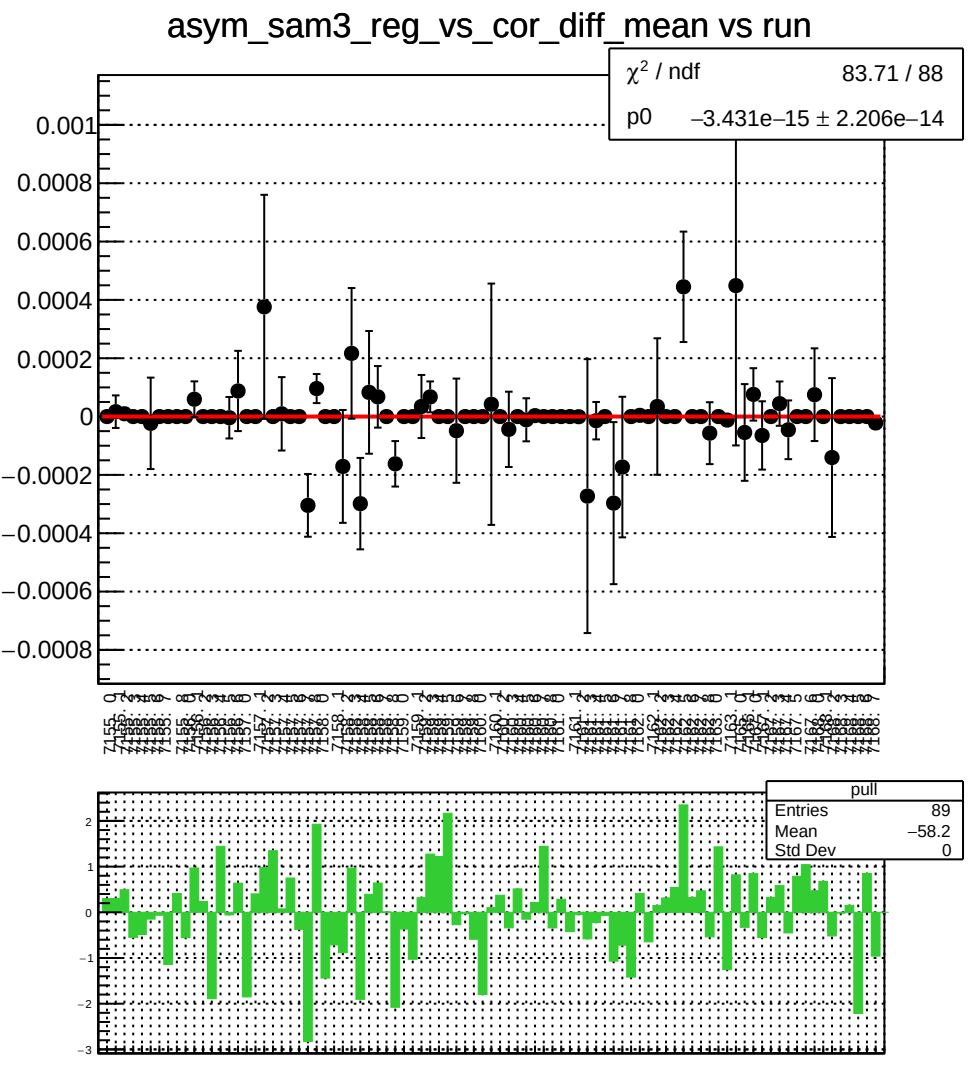

pull1D
Entries 89
Mean 0.01213
Std Dev 0.8628

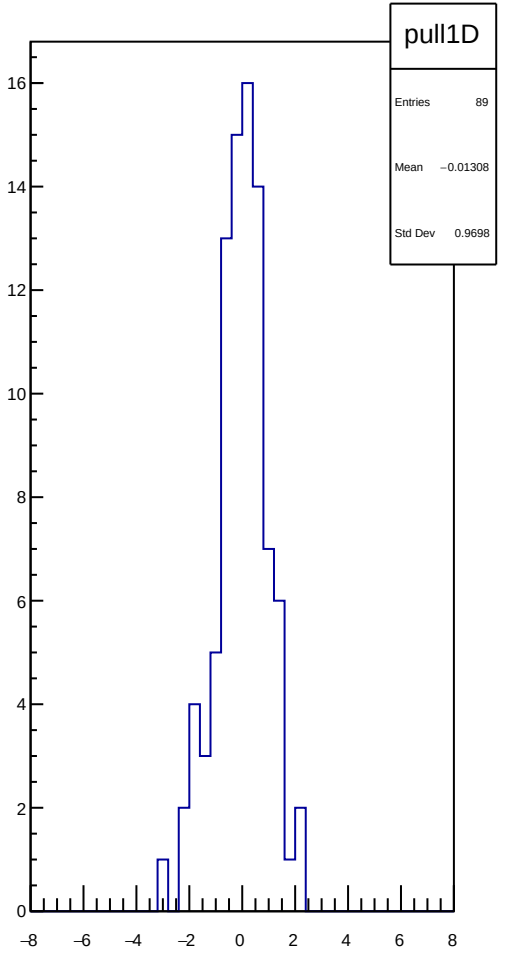

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3480 / 88
p0 664 ± 0.5053
740
720
700
680
660
640
620
600
580

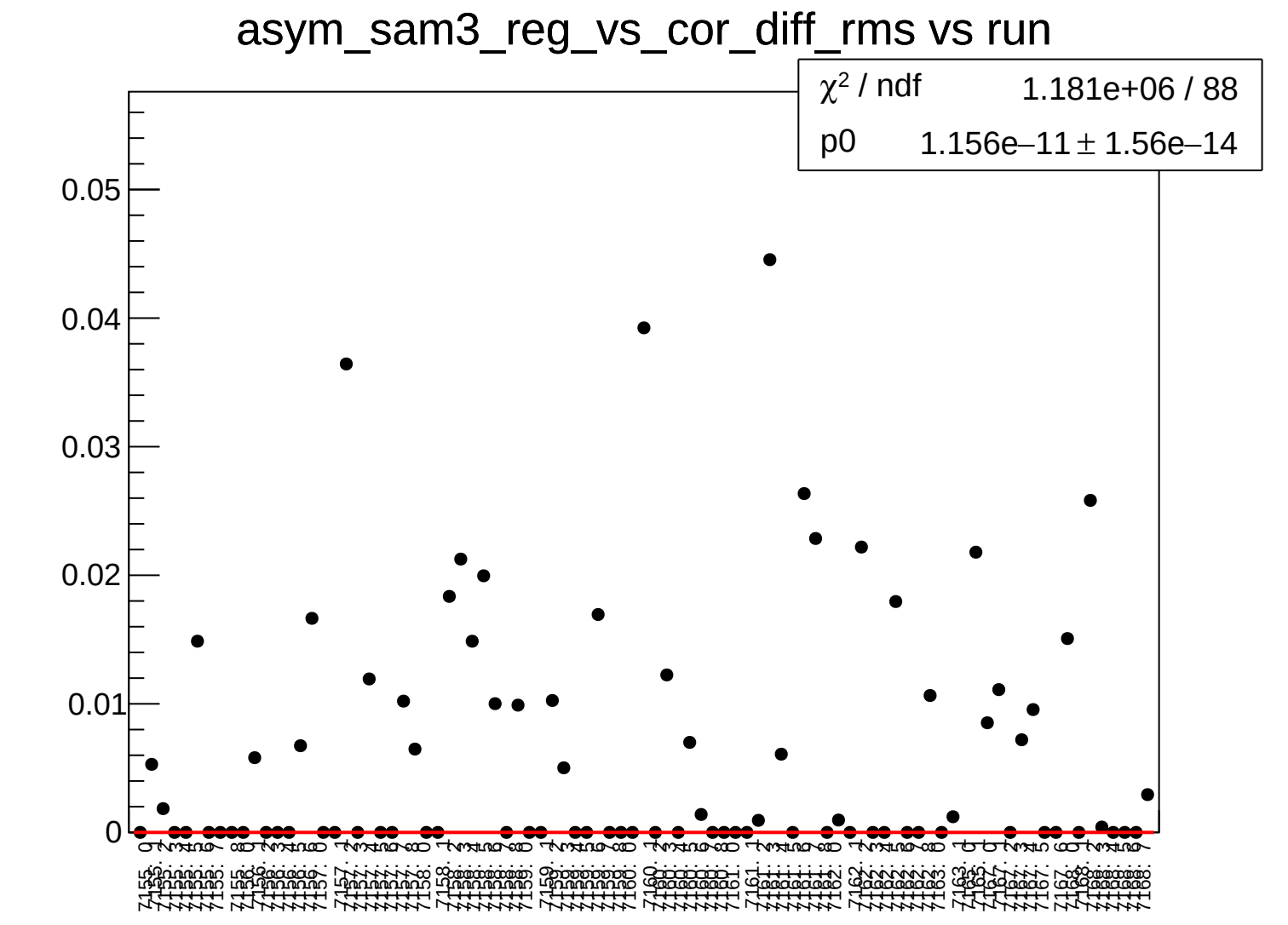

asym_sam3_mean vs run
χ² / ndf 66.97 / 88
p0 −765.9 ± 733.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −52.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

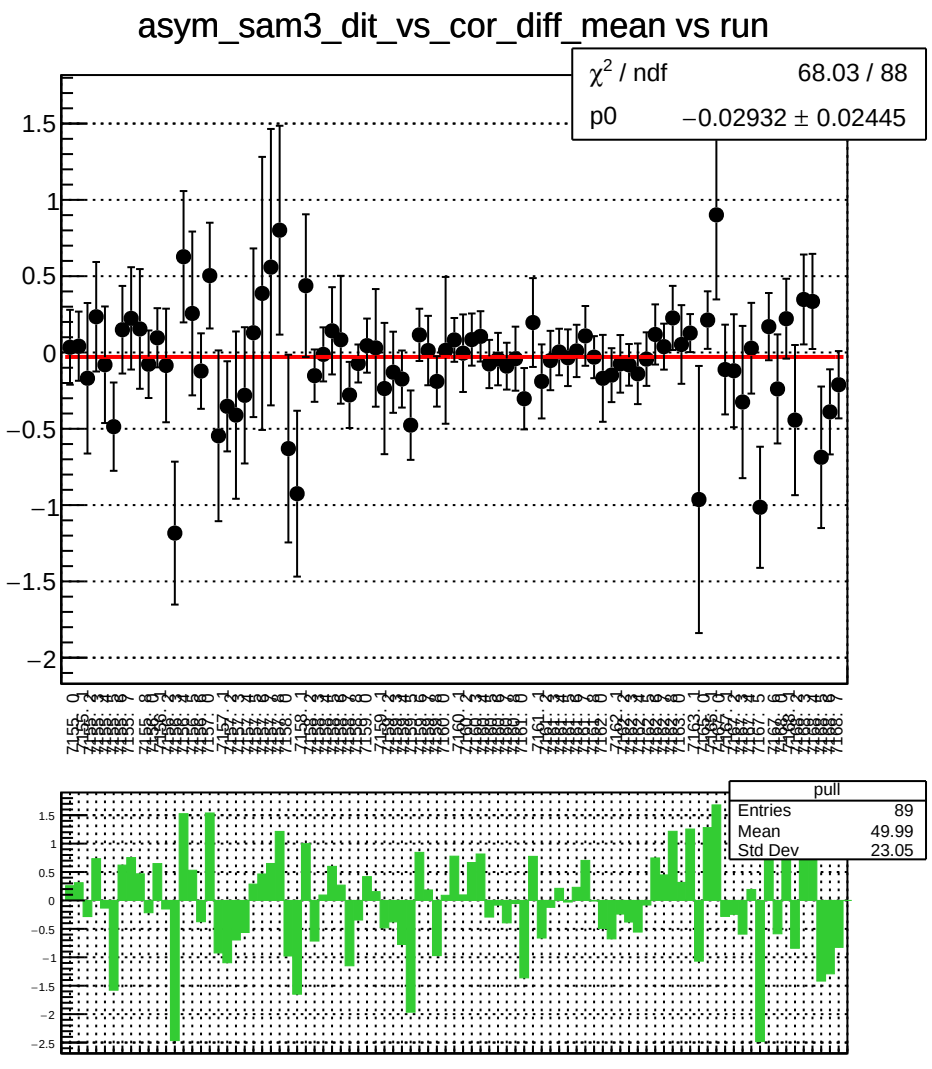

pull1D
Entries 89
Mean −0.01691
Std Dev 0.8673
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

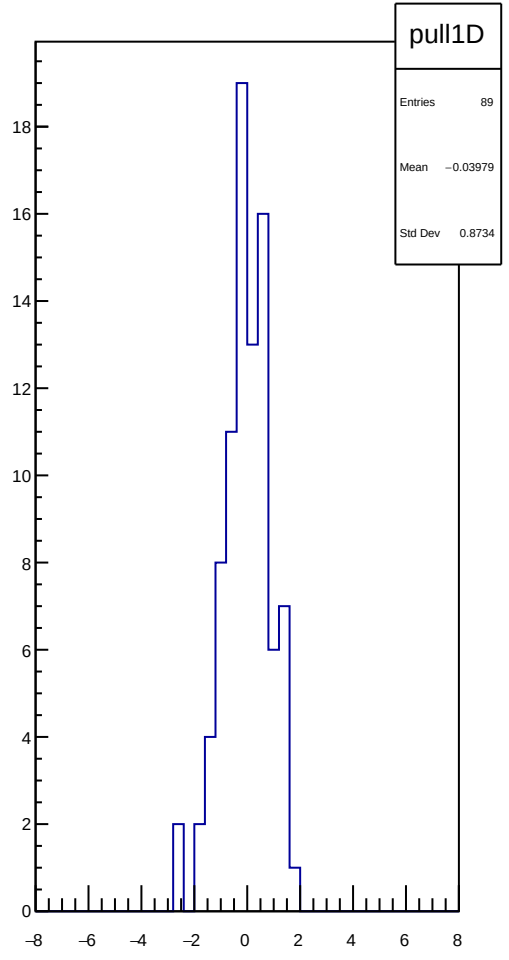

asym_sam3_rms vs run
χ² / ndf 5331 / 88
p0 681.2 ± 0.5187
850
800
750
700
650
600

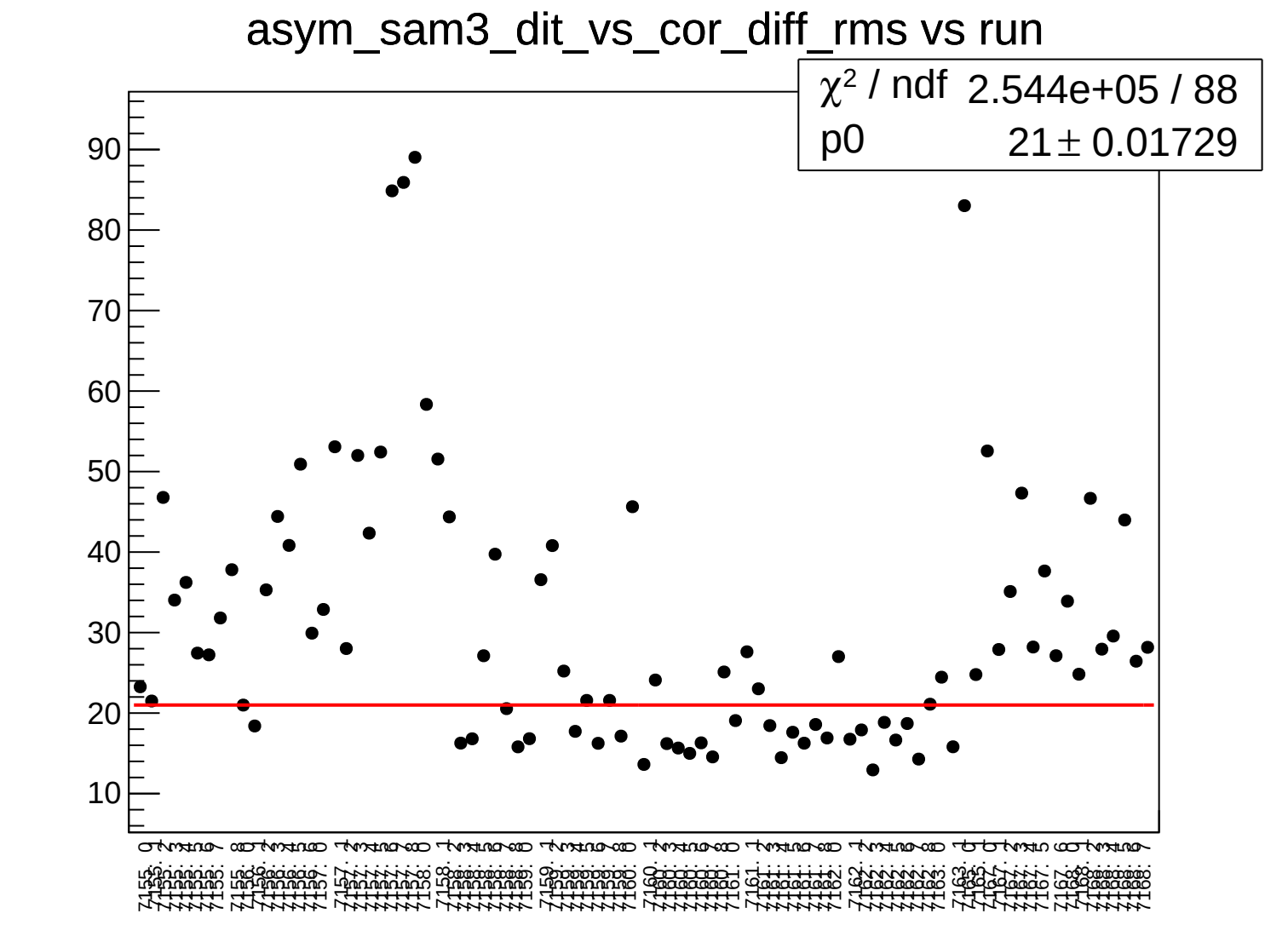

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 83.71 / 88
p0 −3.431e−15 ± 2.206e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 89
Mean −58.2
Std Dev 0
2
1
0
−1
−2
−3

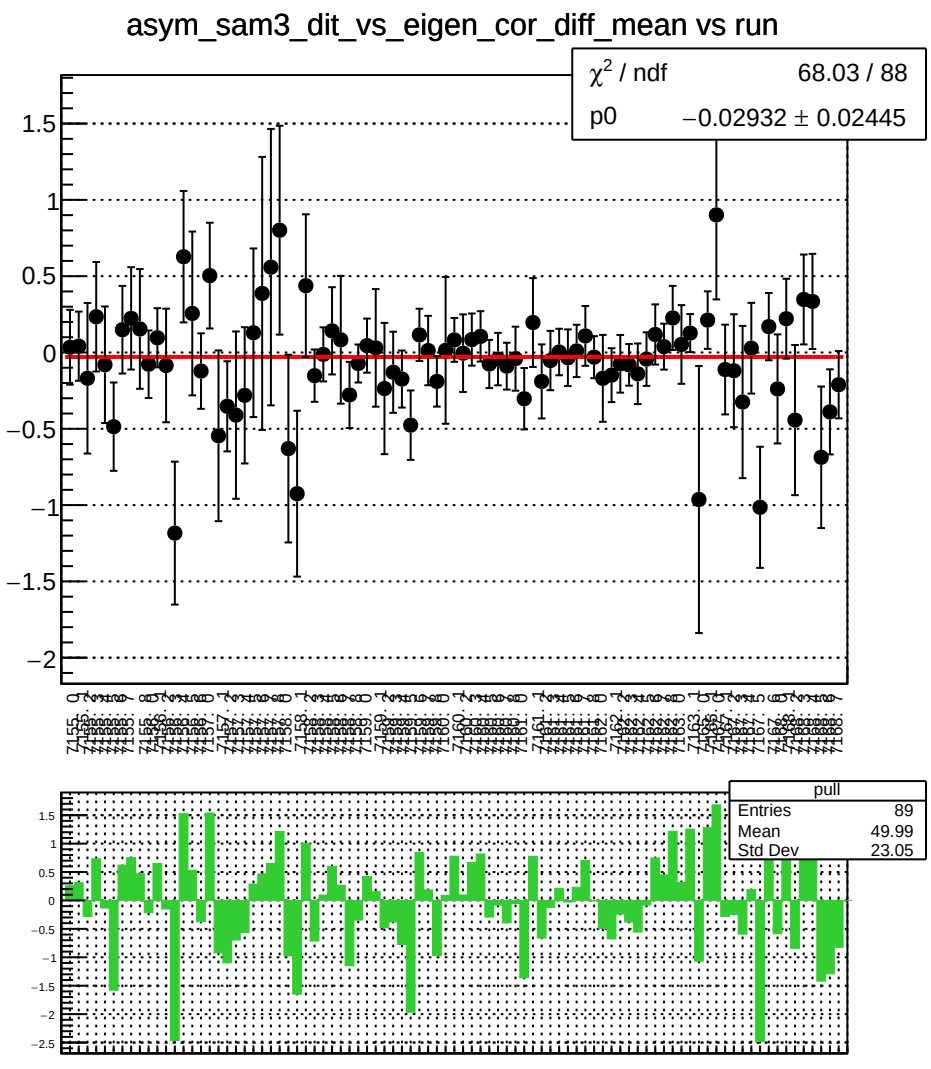

pull1D
Entries 89
Mean −0.01308
Std Dev 0.9698
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

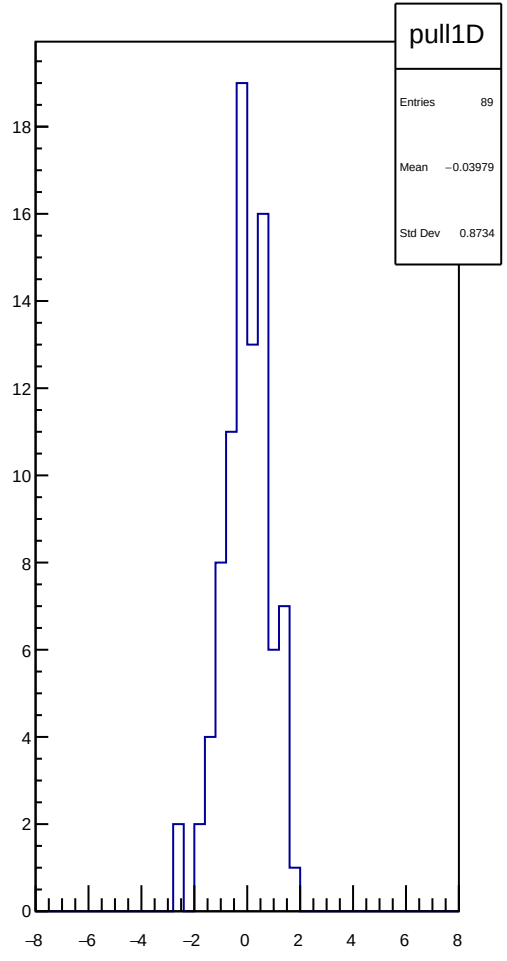

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.181e+06 / 88
p0 1.156e−11 ± 1.56e−14
0.05
0.04
0.03
0.02
0.01
0

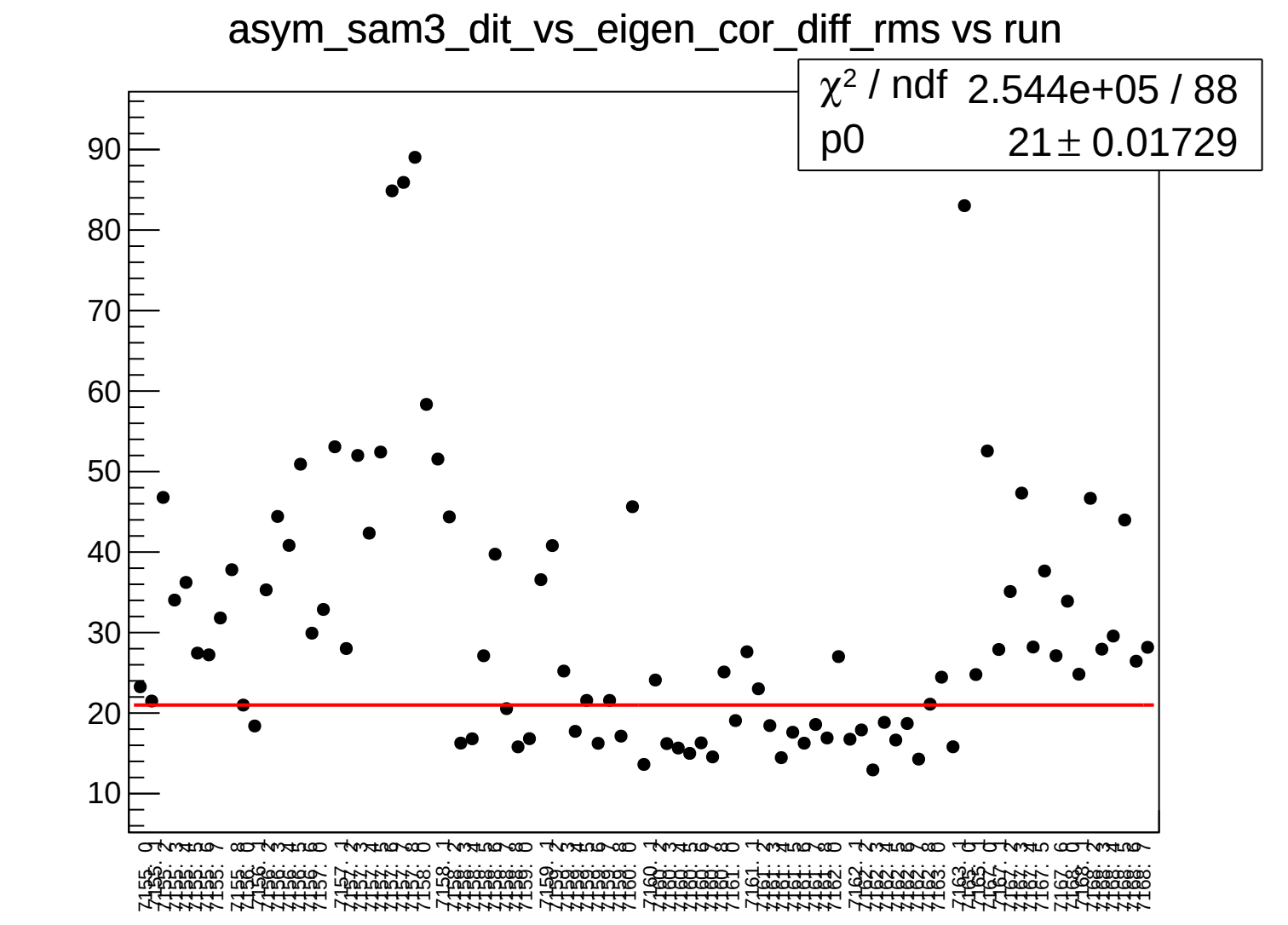

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 68.03 / 88
p0 −0.02932 ± 0.02445
pull
Entries 89
Mean 49.99
Std Dev 23.05

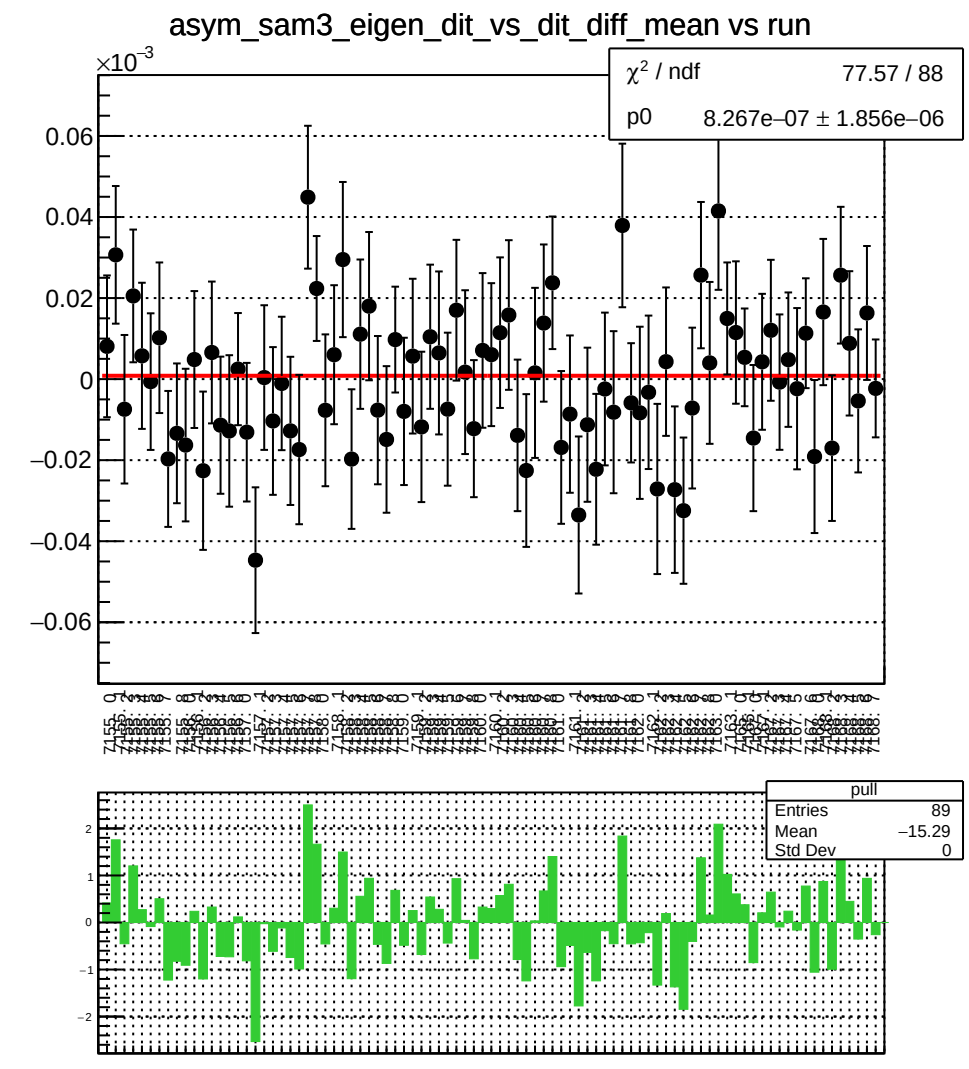

pull1D
Entries 89
Mean −0.03979
Std Dev 0.8734

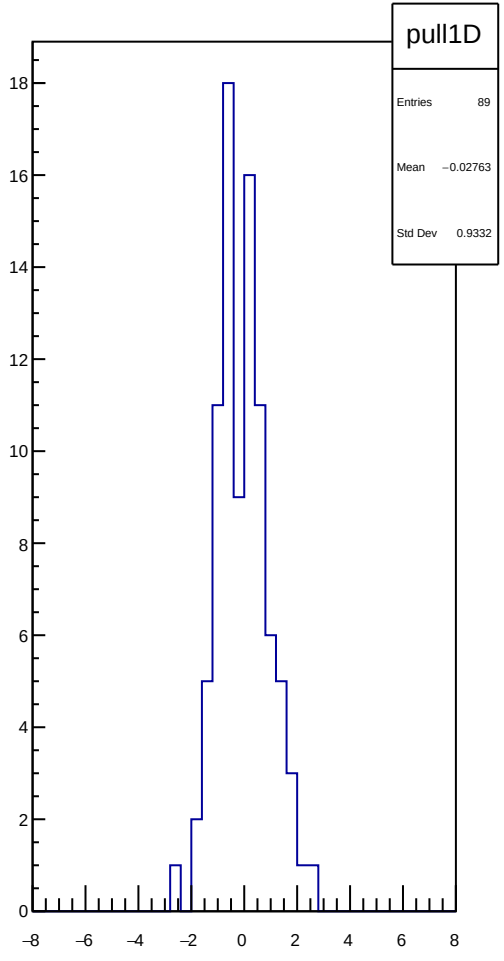

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 2.544e+05 / 88
p0 21 ± 0.01729
90
80
70
60
50
40
30
20
10

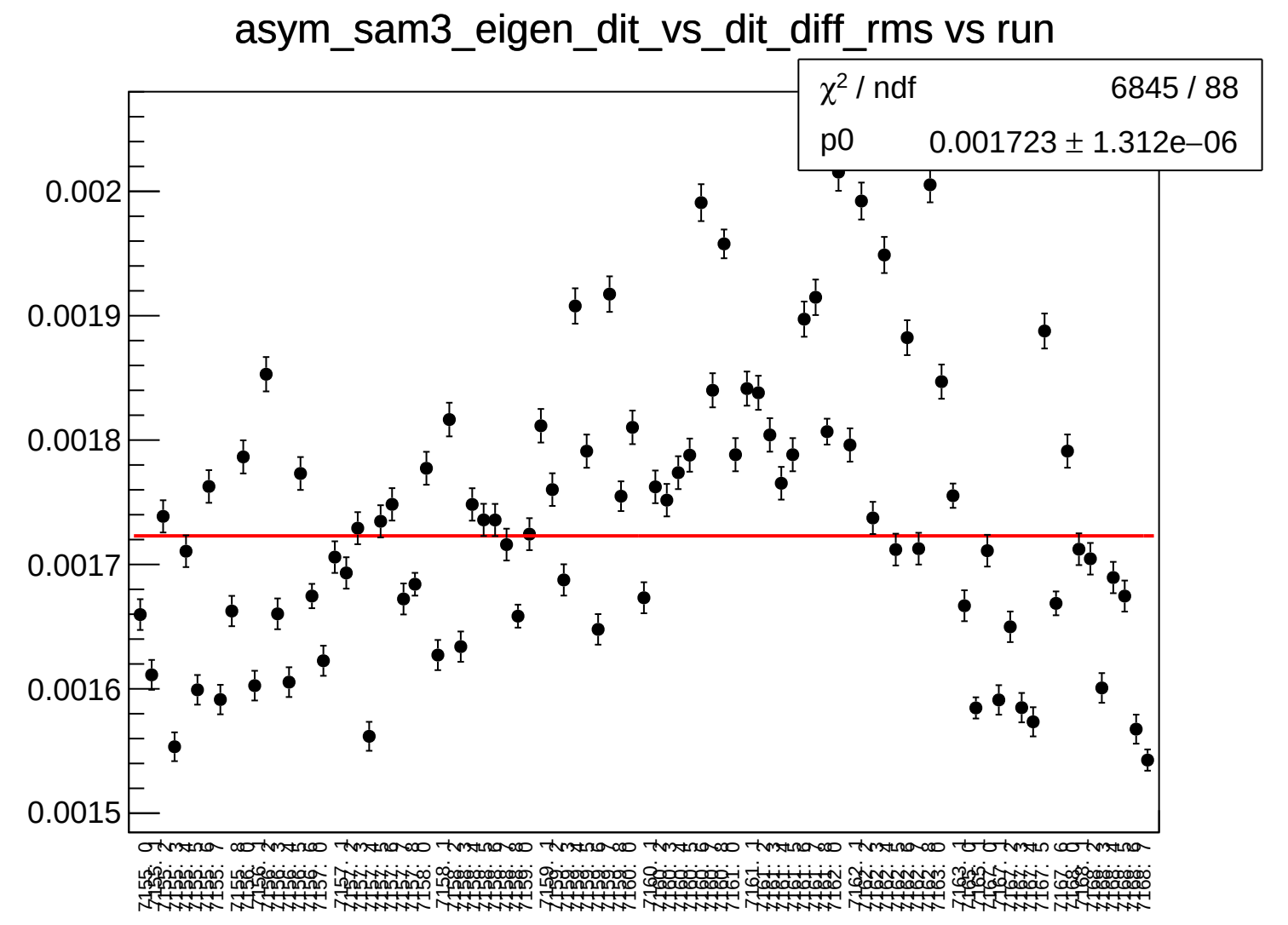

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.03 / 88
p0 −0.02932 ± 0.02445
pull
Entries 89
Mean 49.99
Std Dev 23.05

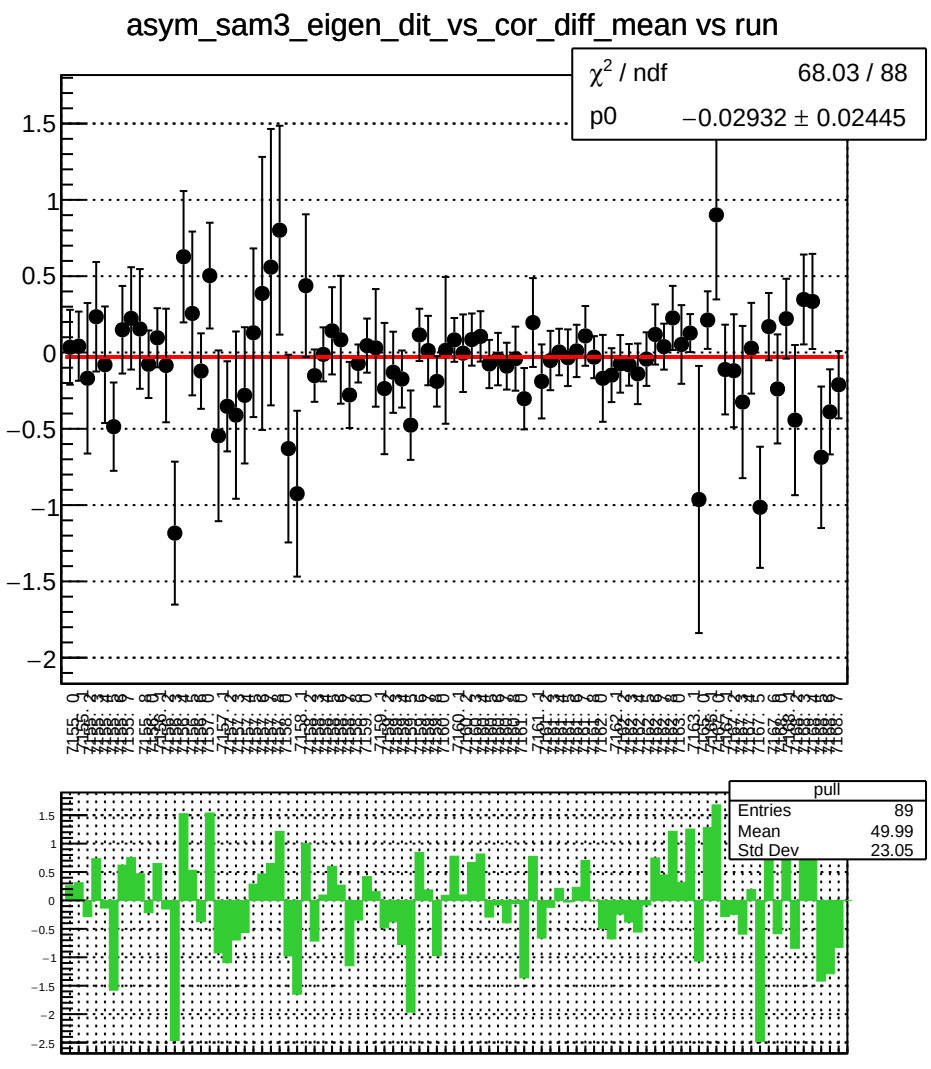

pull1D
Entries 89
Mean −0.03979
Std Dev 0.8734

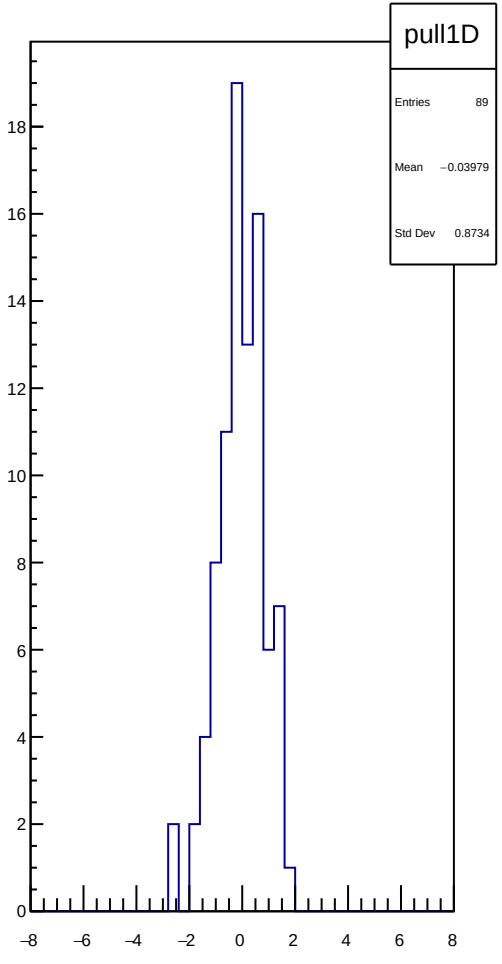

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.544e+05 / 88
p0 21 ± 0.01729
90
80
70
60
50
40
30
20
10

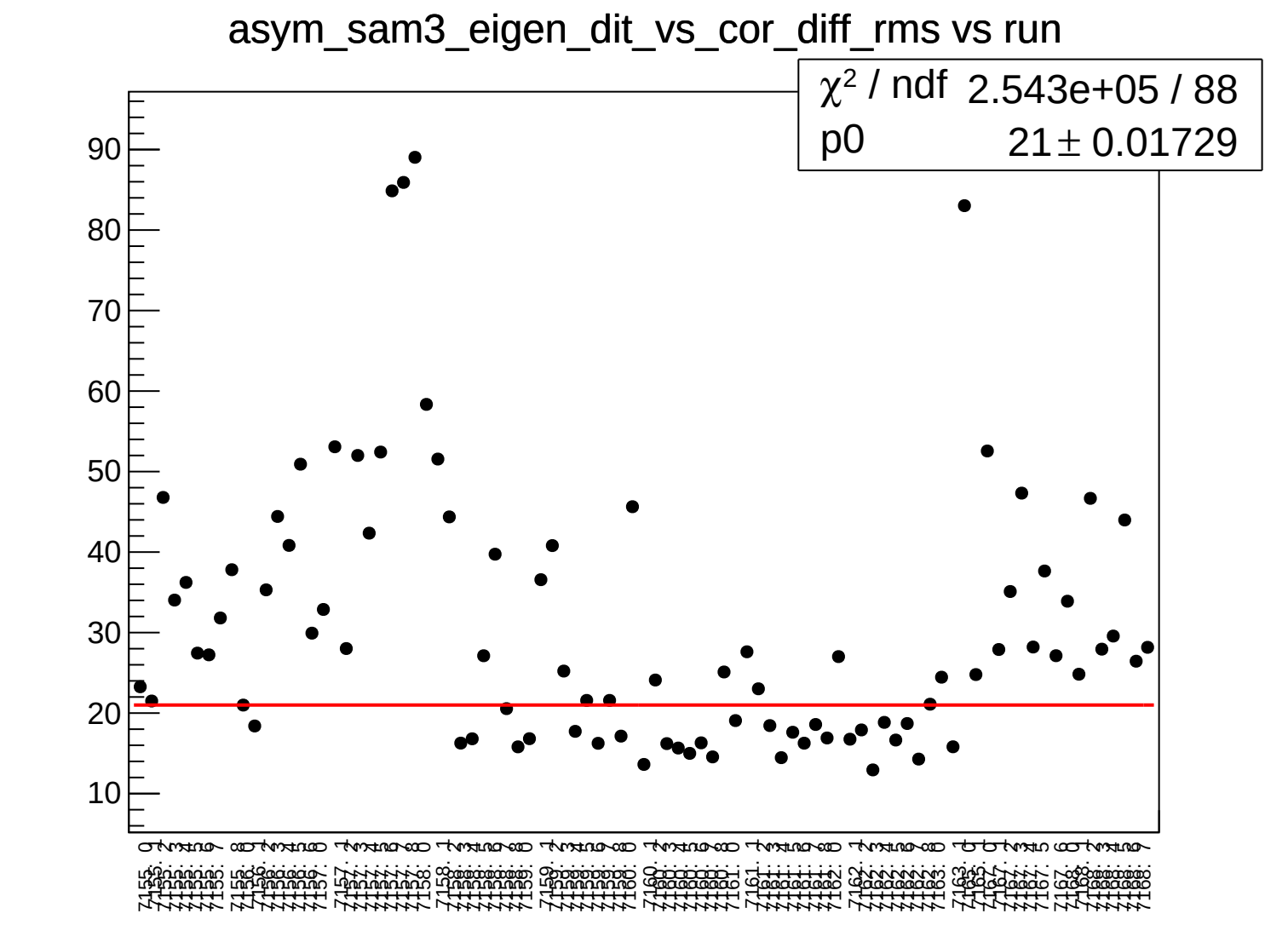

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.57 / 88
p0 8.267e−07 ± 1.856e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −15.29
Std Dev 0
2
1
0
−1
−2

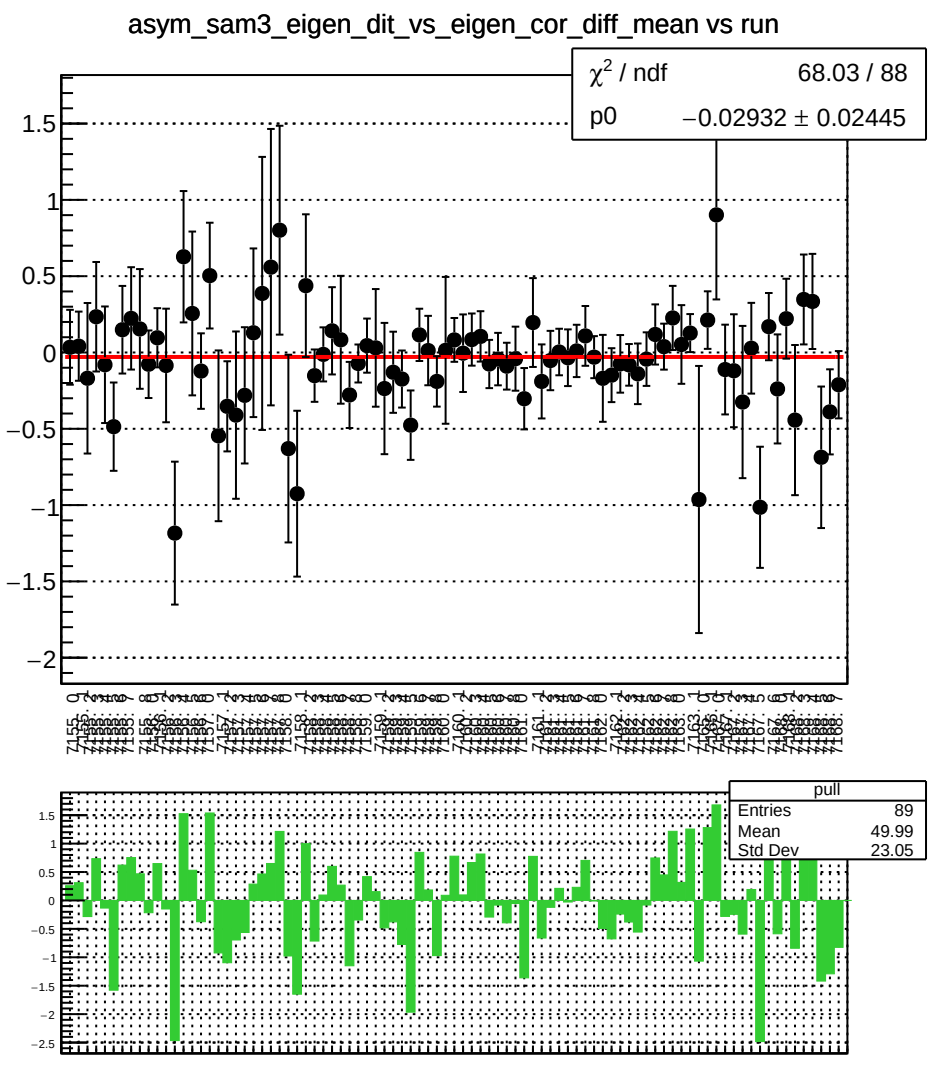

pull1D
Entries 89
Mean −0.02763
Std Dev 0.9332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

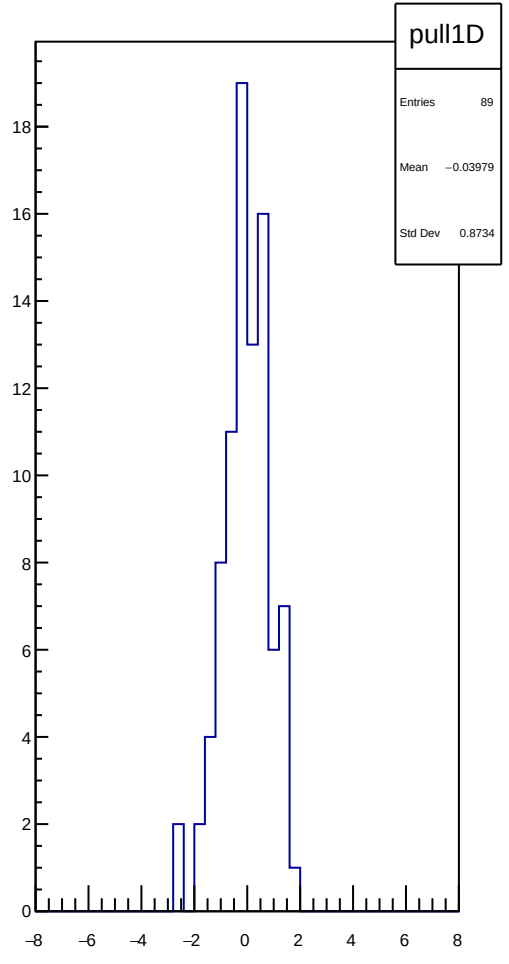

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6845 / 88
p0 0.001723 ± 1.312e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

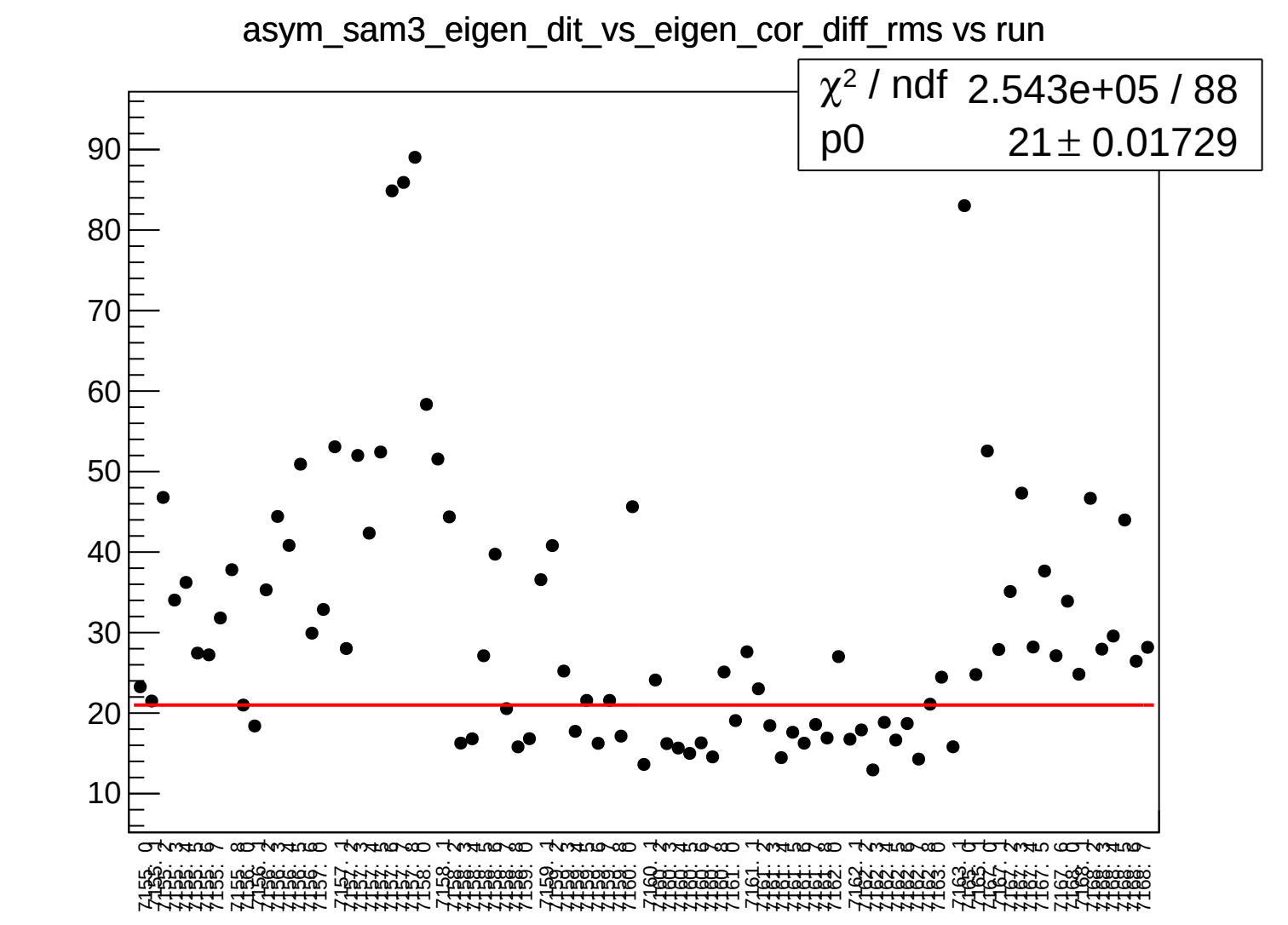

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 68.03 / 88
p0 −0.02932 ± 0.02445
pull
Entries 89
Mean 49.99
Std Dev 23.05

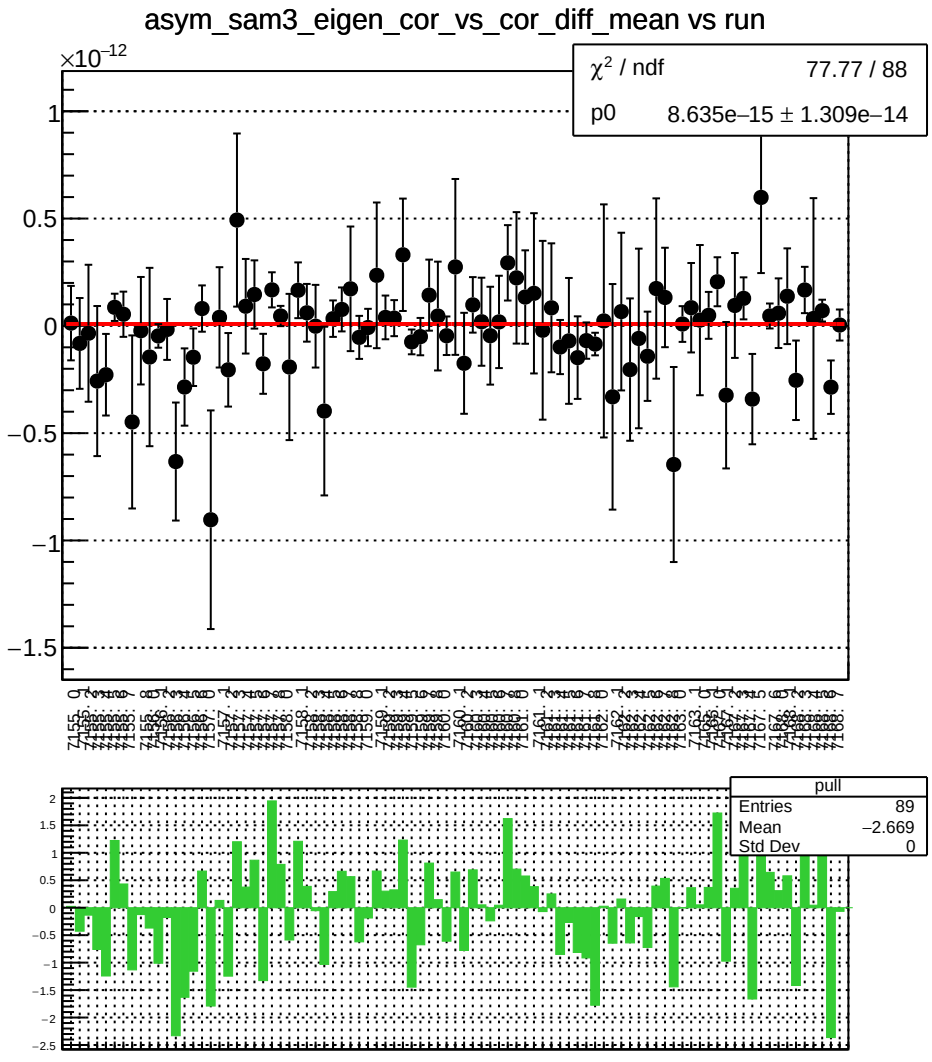

pull1D
Entries 89
Mean −0.03979
Std Dev 0.8734

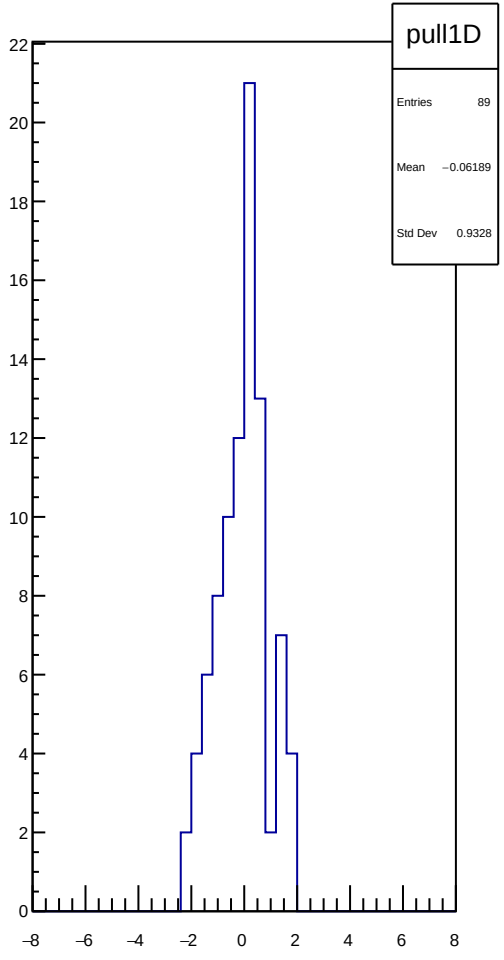

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.543e+05 / 88
p0 21 ± 0.01729
90
80
70
60
50
40
30
20
10

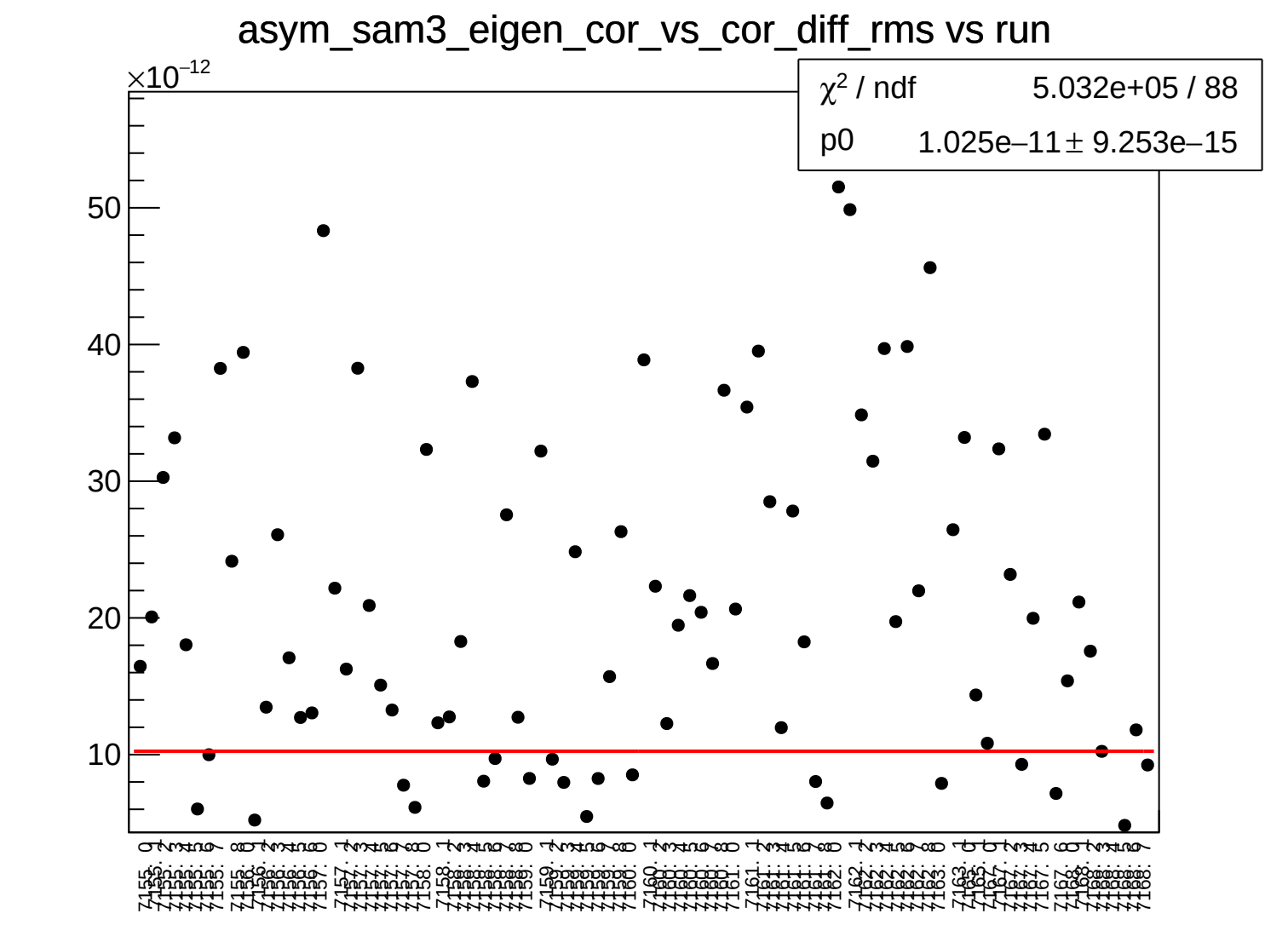

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 68.03 / 88
p0 −0.02932 ± 0.02445
pull
Entries 89
Mean 49.99
Std Dev 23.05

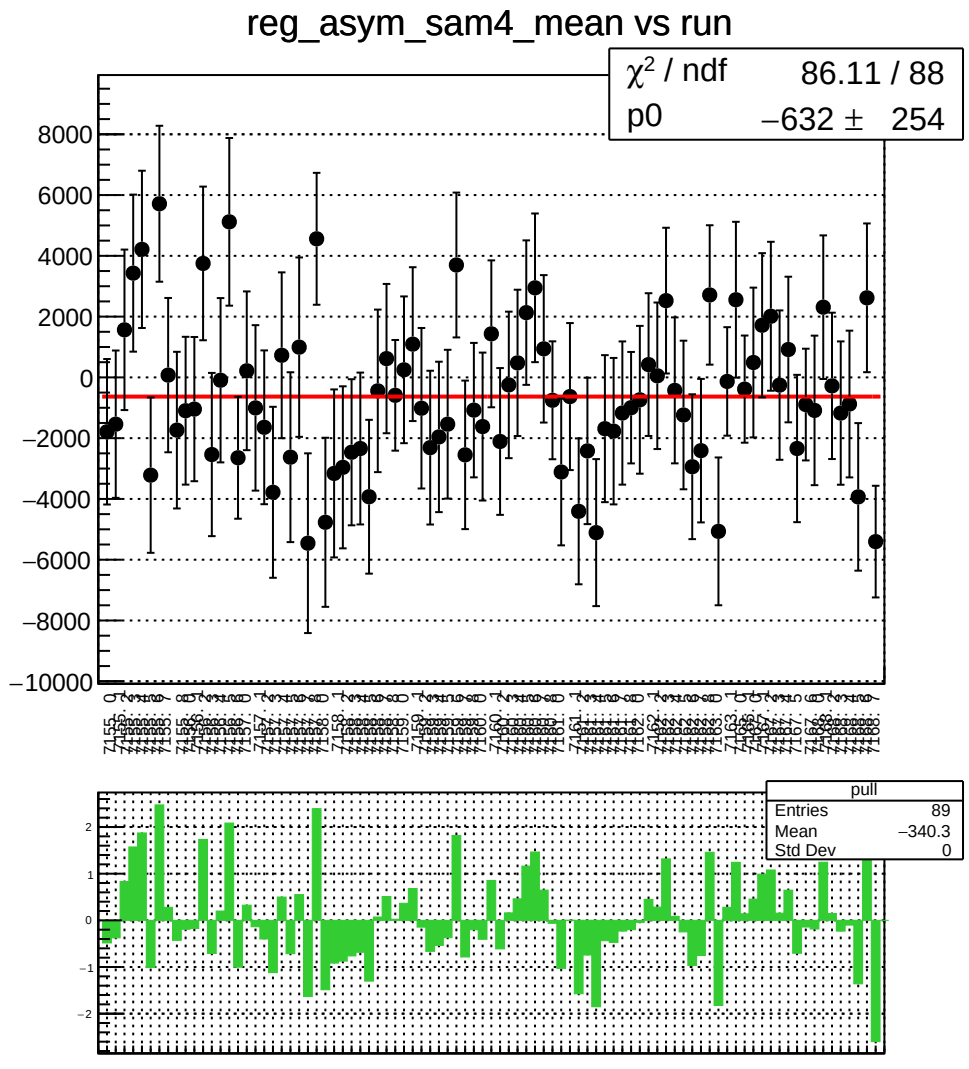

pull1D
Entries 89
Mean −0.03979
Std Dev 0.8734

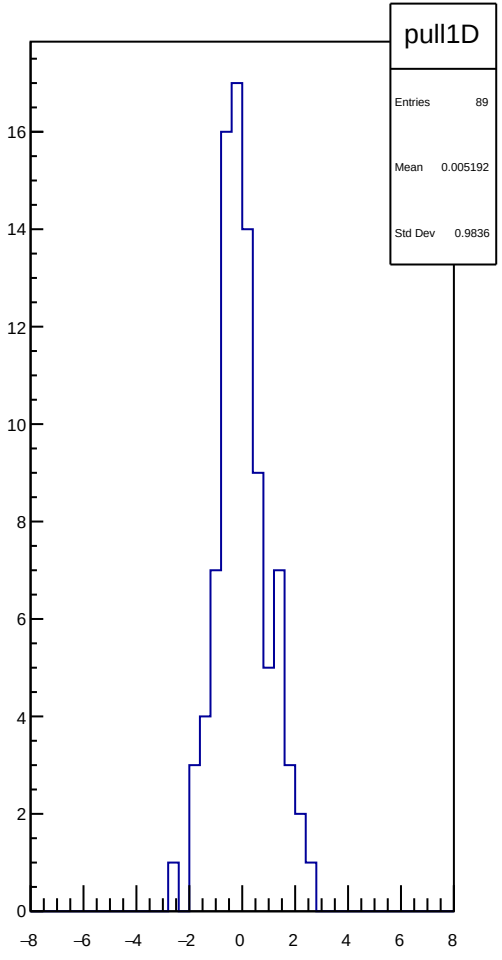

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.543e+05 / 88
p0 21 ± 0.01729
90
80
70
60
50
40
30
20
10

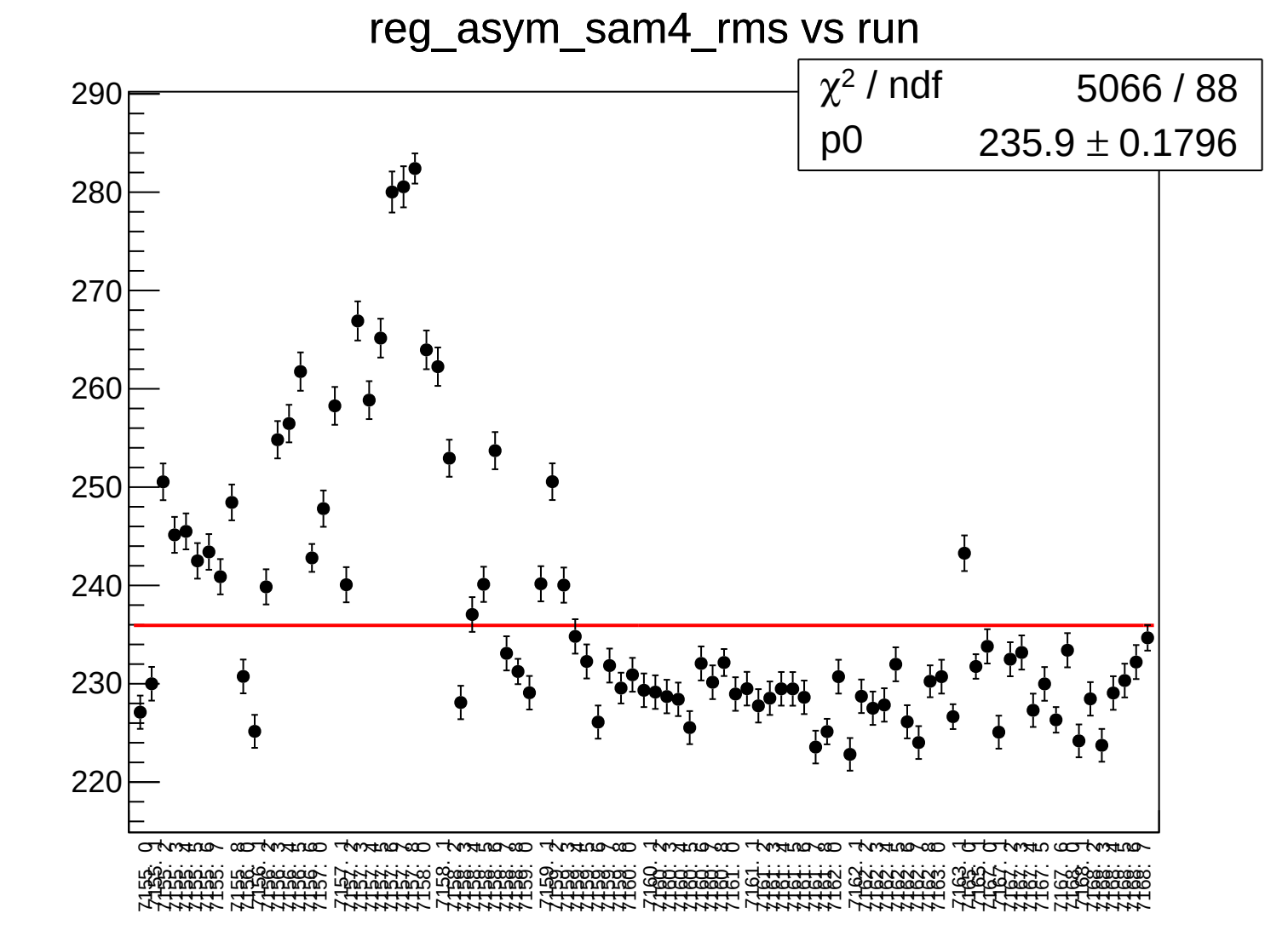

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.77 / 88
p0 8.635e−15 ± 1.309e−14
pull
Entries 89
Mean −2.669
Std Dev 0

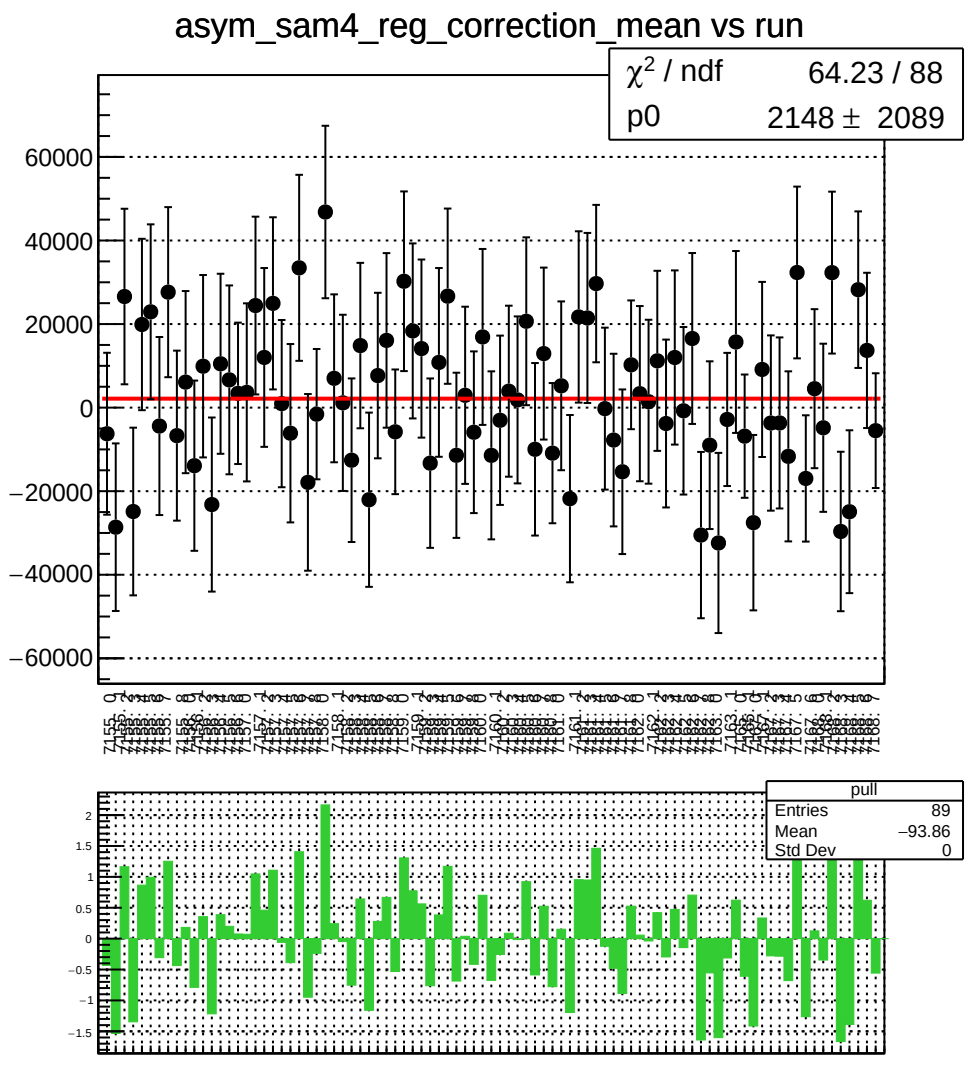

pull1D
Entries 89
Mean −0.06189
Std Dev 0.9328

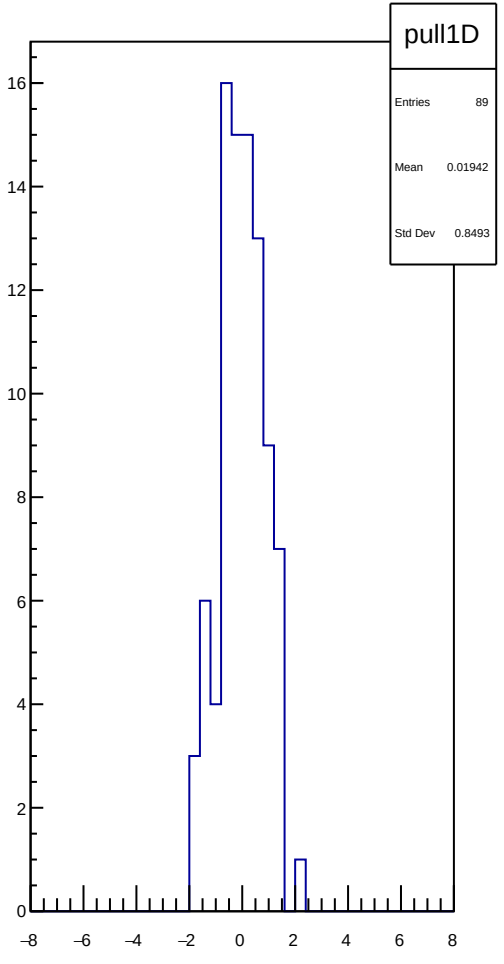

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.032e+05 / 88
p0 1.025e−11 ± 9.253e−15
50
40
30
20
10

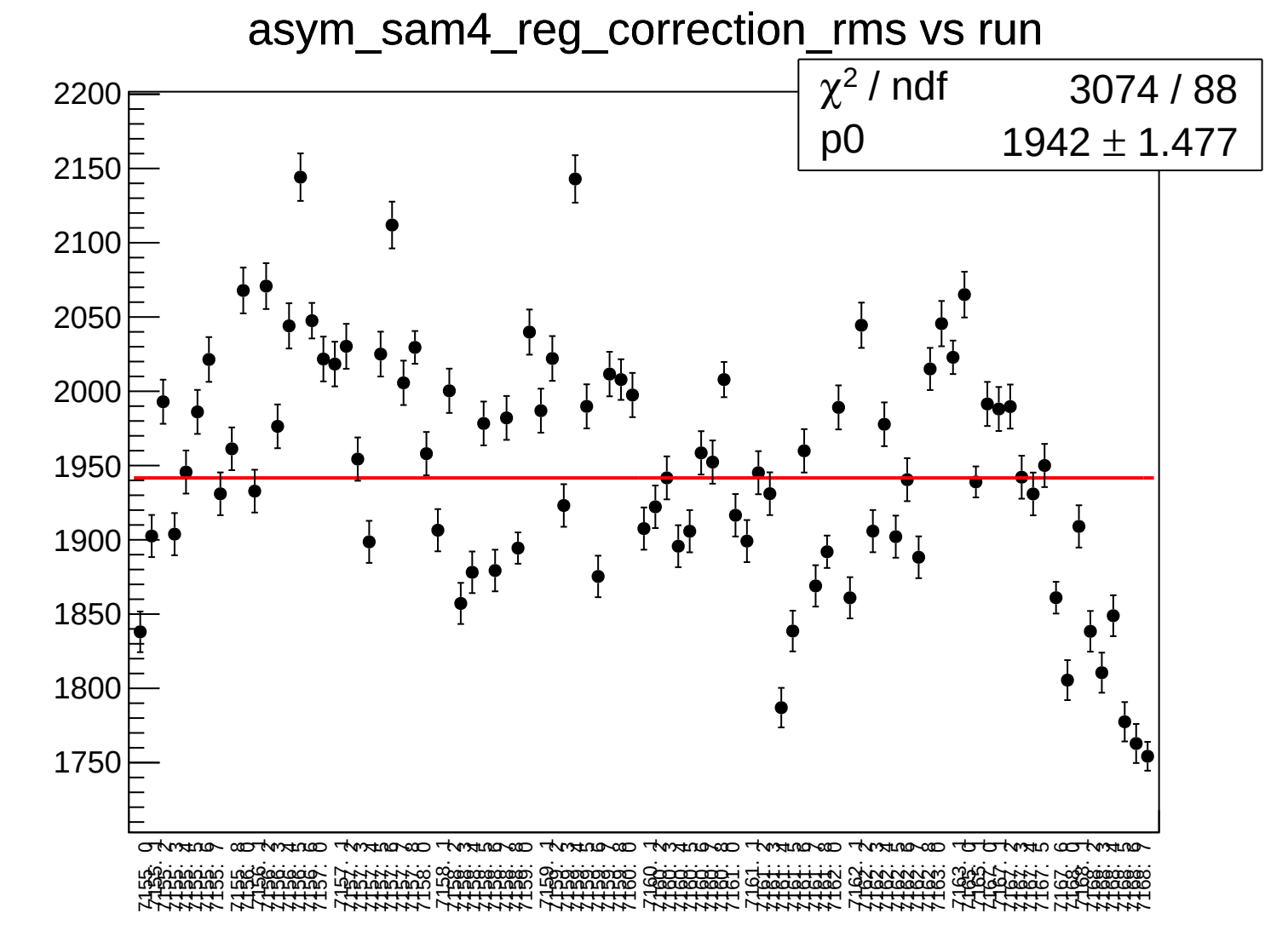

reg_asym_sam4_mean vs run
χ² / ndf 86.11 / 88
p0 −632 ± 254
pull
Entries 89
Mean −340.3
Std Dev 0

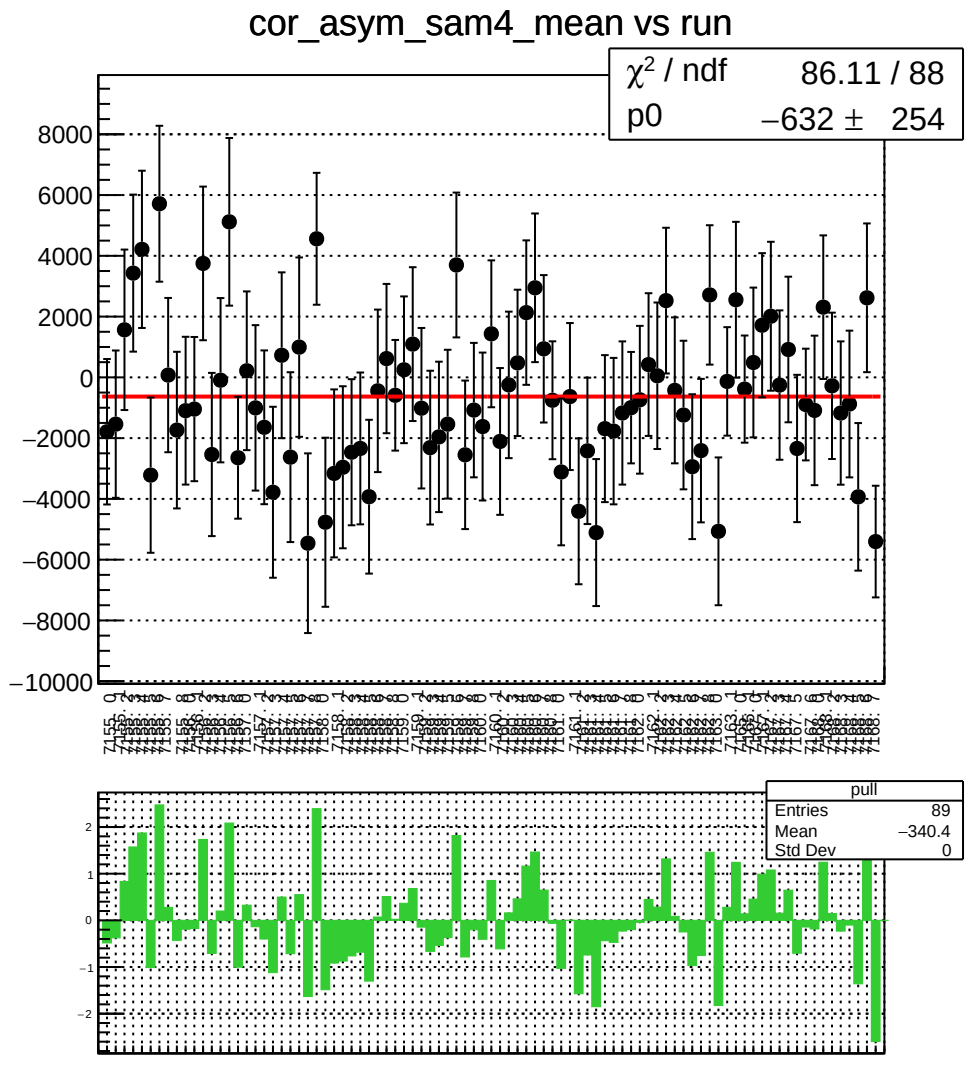

pull1D
Entries 89
Mean 0.005192
Std Dev 0.9836

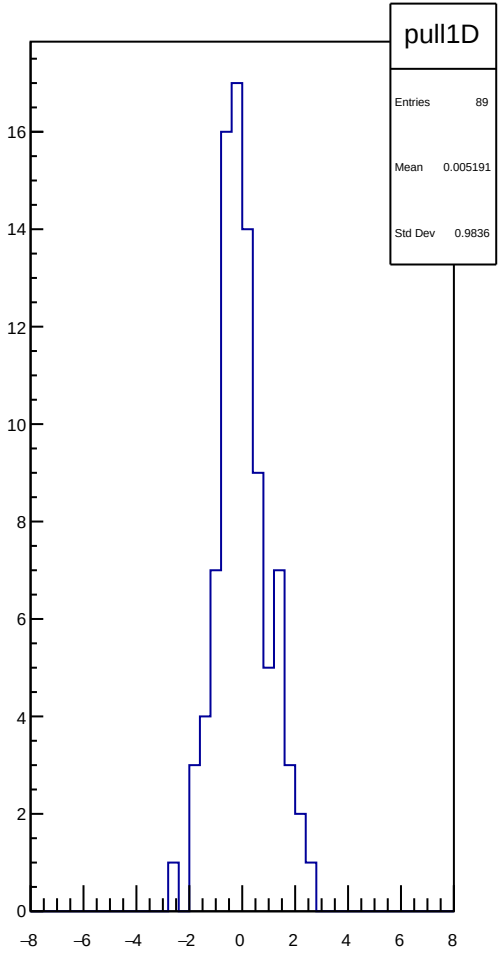

reg_asym_sam4_rms vs run
χ^2 / ndf 5066 / 88
p0 235.9 ± 0.1796
290
280
270
260
250
240
230
220

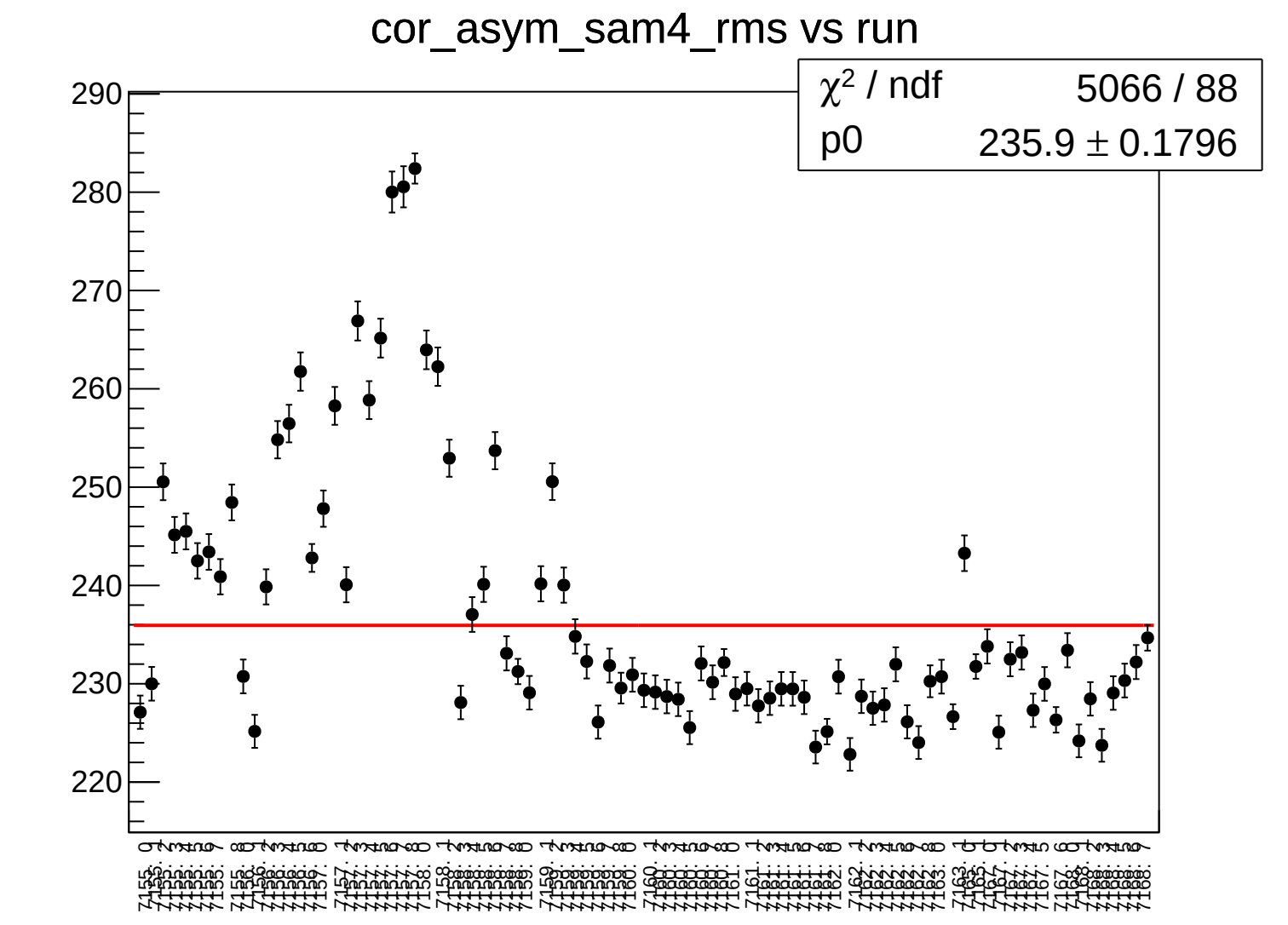

asym_sam4_reg_correction_mean vs run
χ² / ndf 64.23 / 88
p0 2148 ± 2089
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −93.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

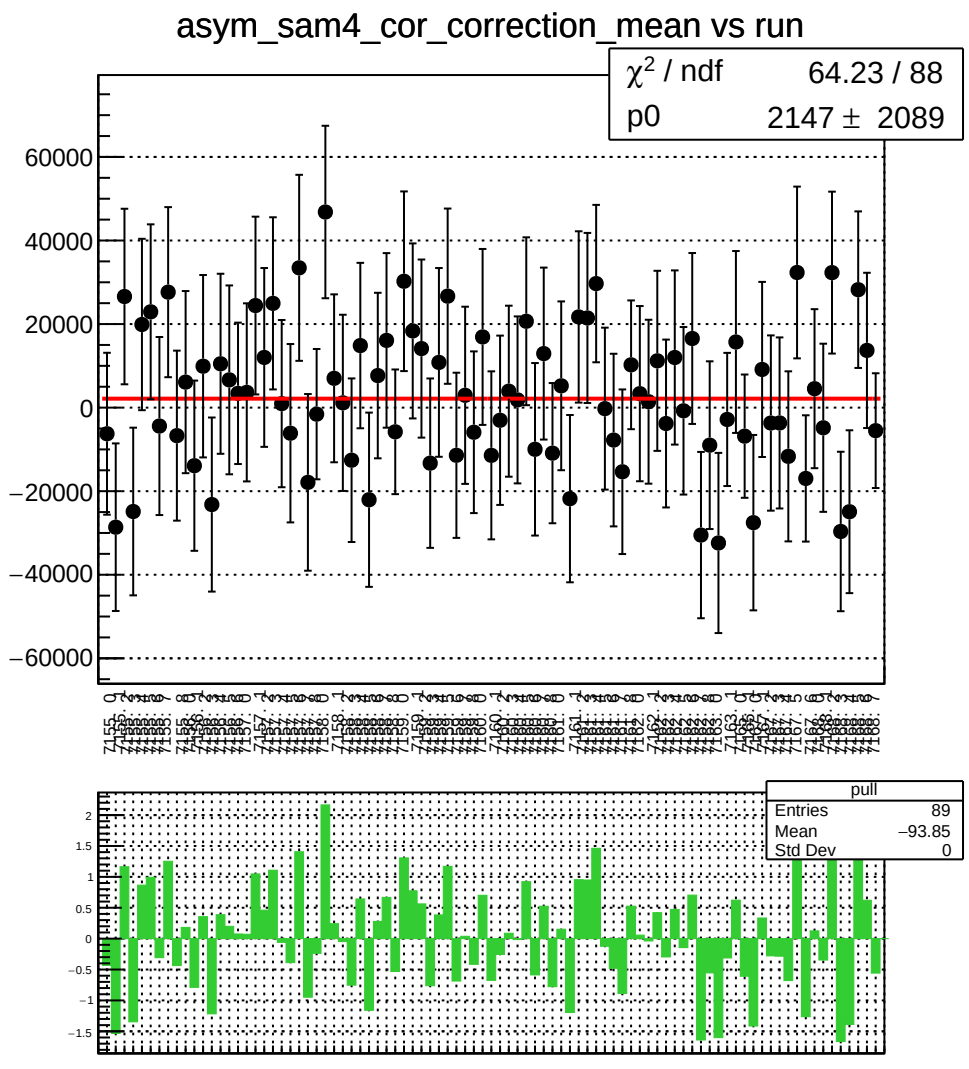

pull1D
Entries 89
Mean 0.01942
Std Dev 0.8493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

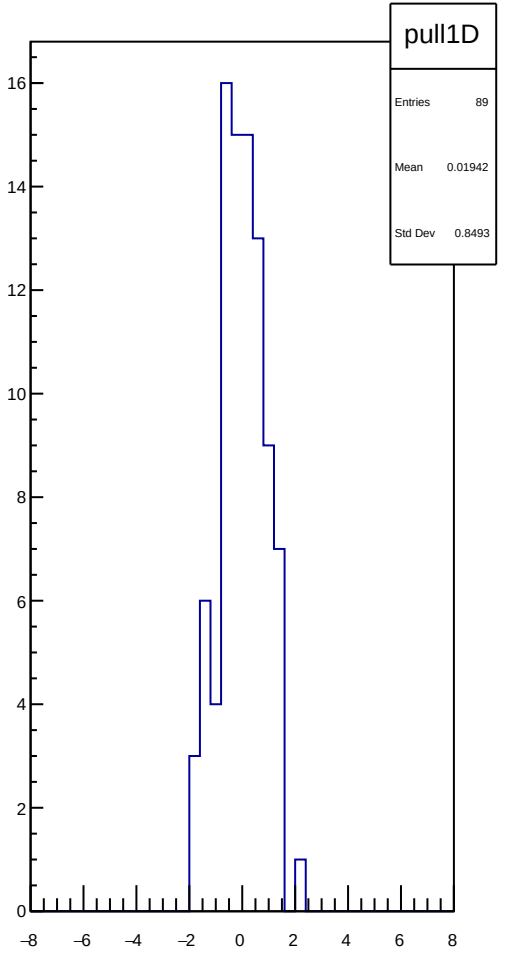

asym_sam4_reg_correction_rms vs run
χ² / ndf 3074 / 88
p0 1942 ± 1.477
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

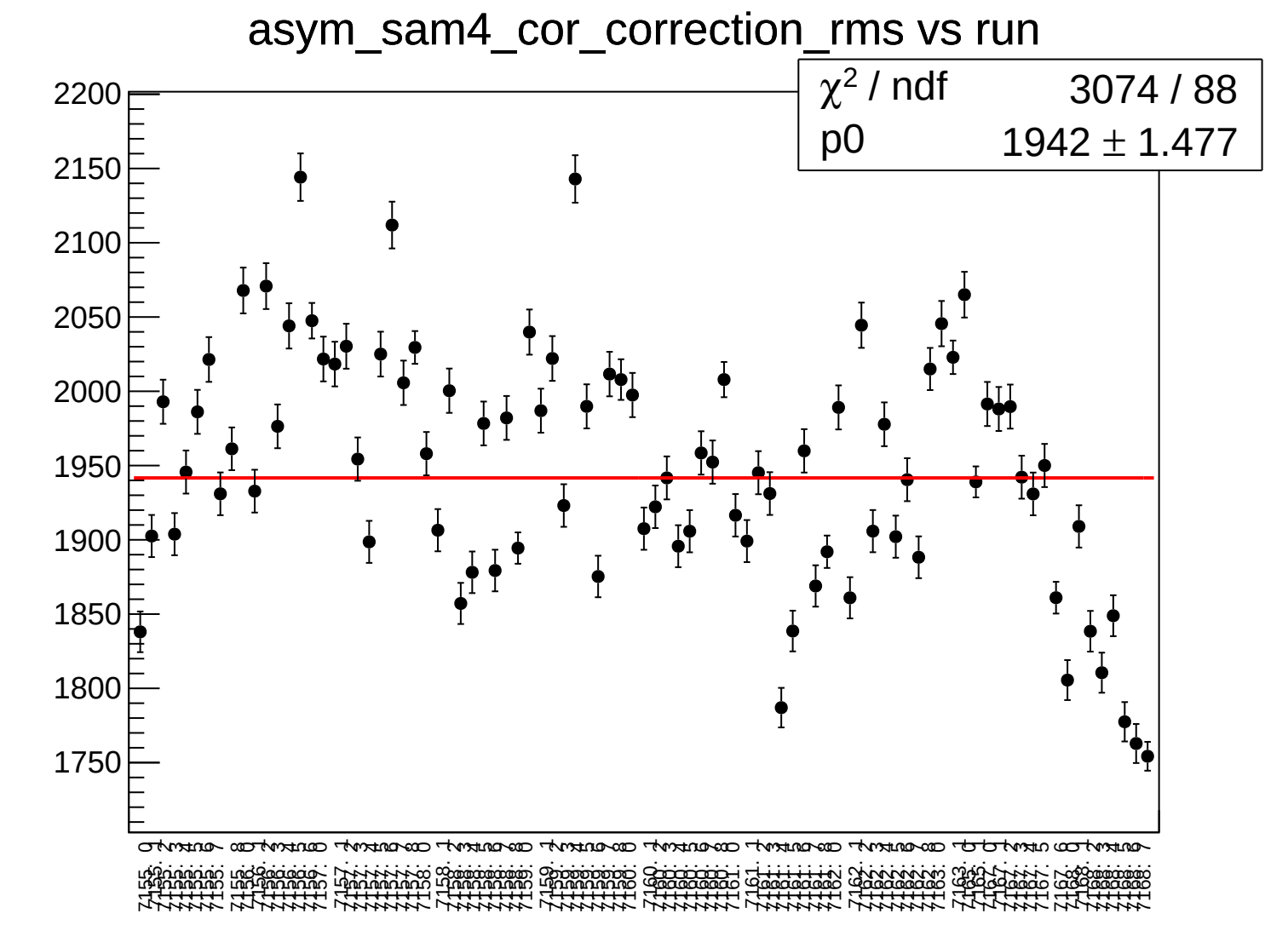

cor_asym_sam4_mean vs run
χ² / ndf 86.11 / 88
p0 −632 ± 254
pull
Entries 89
Mean −340.4
Std Dev 0

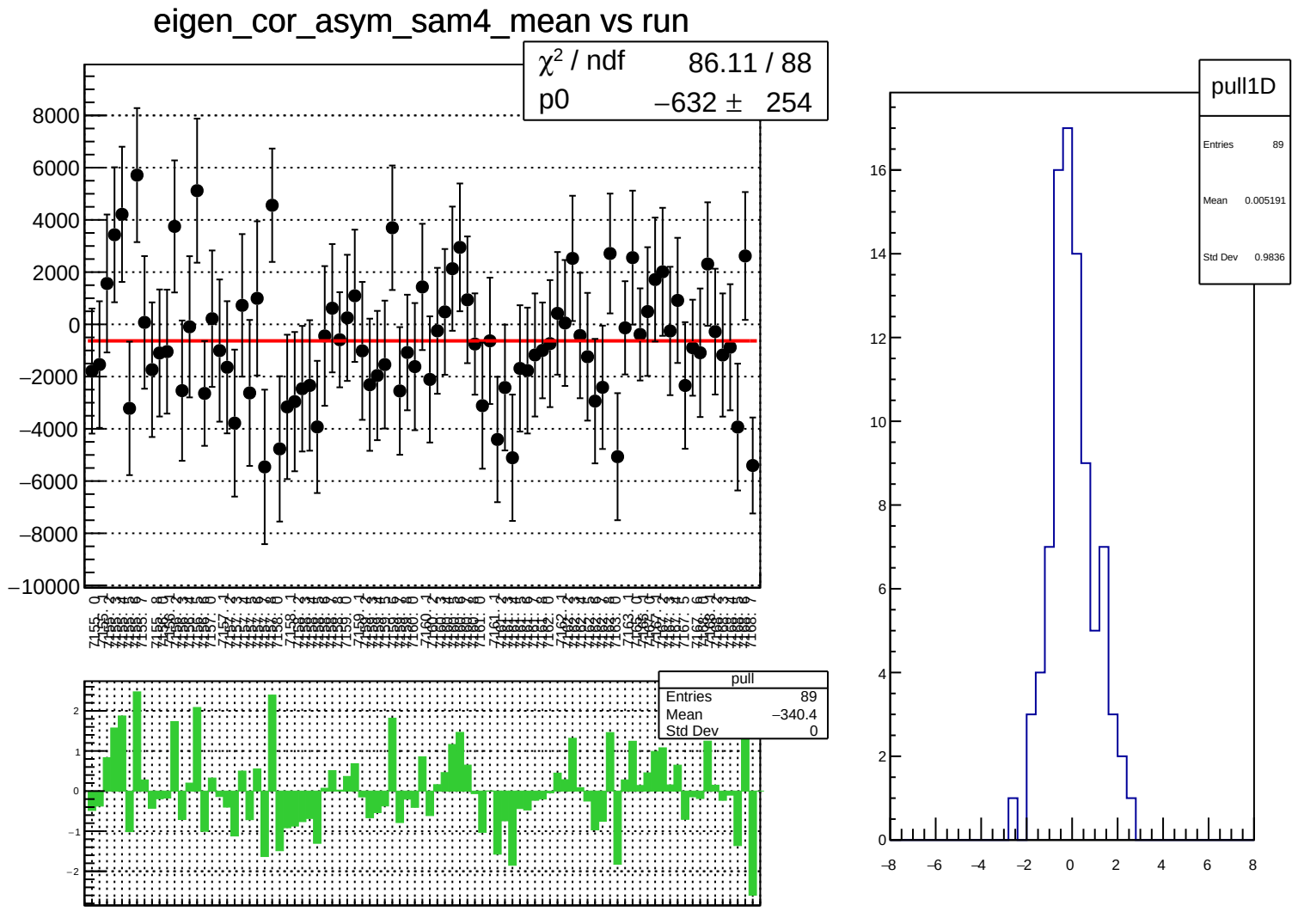

pull1D
Entries 89
Mean 0.005191
Std Dev 0.9836

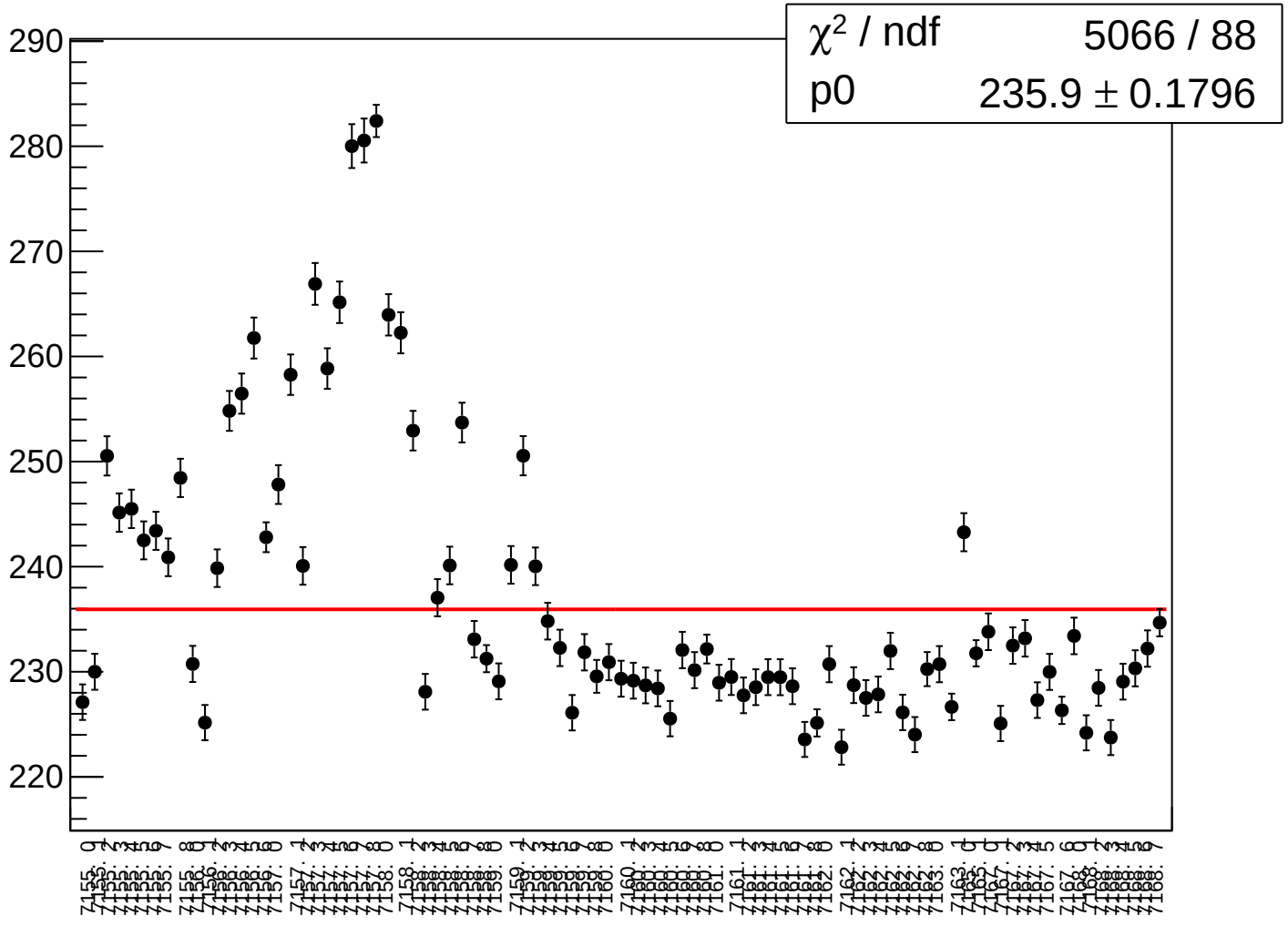

cor_asym_sam4_rms vs run
χ² / ndf 5066 / 88
p0 235.9 ± 0.1796
290
280
270
260
250
240
230
220

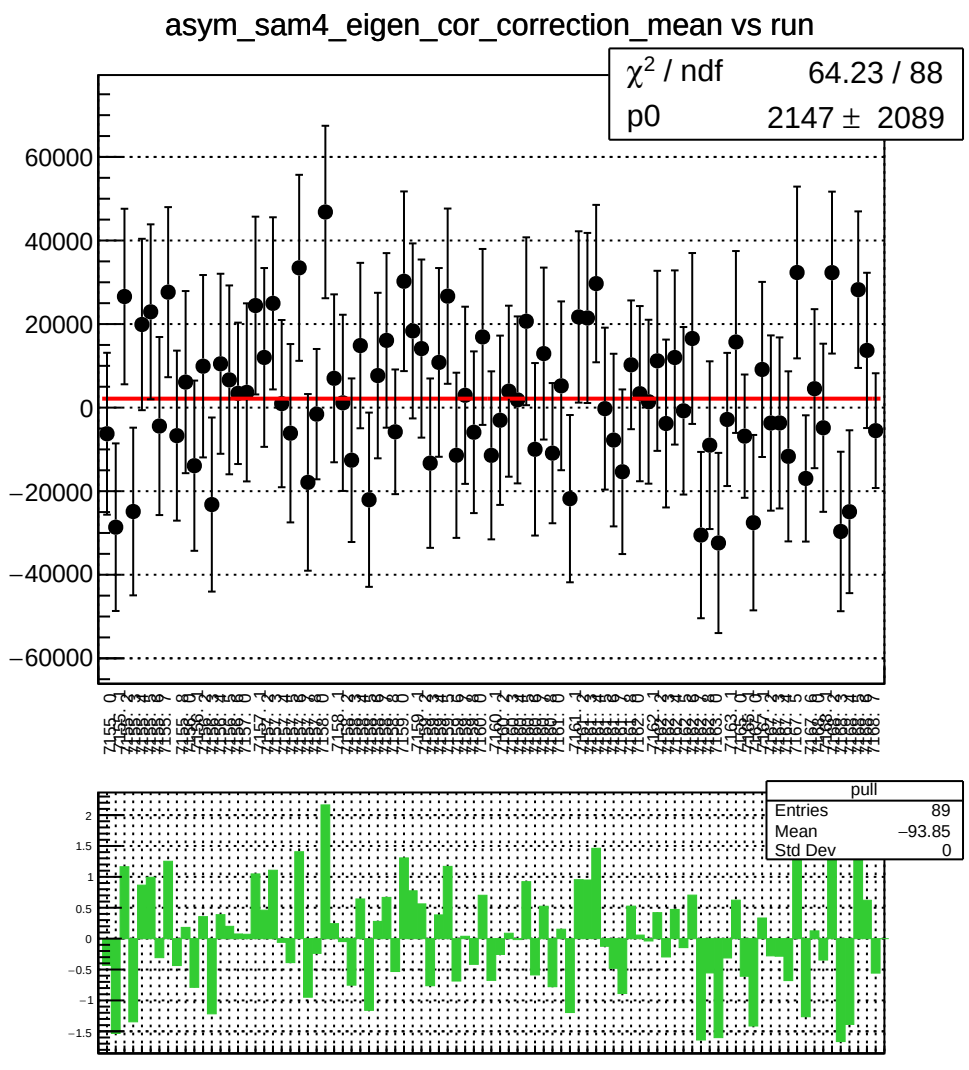

asym_sam4_cor_correction_mean vs run
χ² / ndf 64.23 / 88
p0 2147 ± 2089
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −93.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

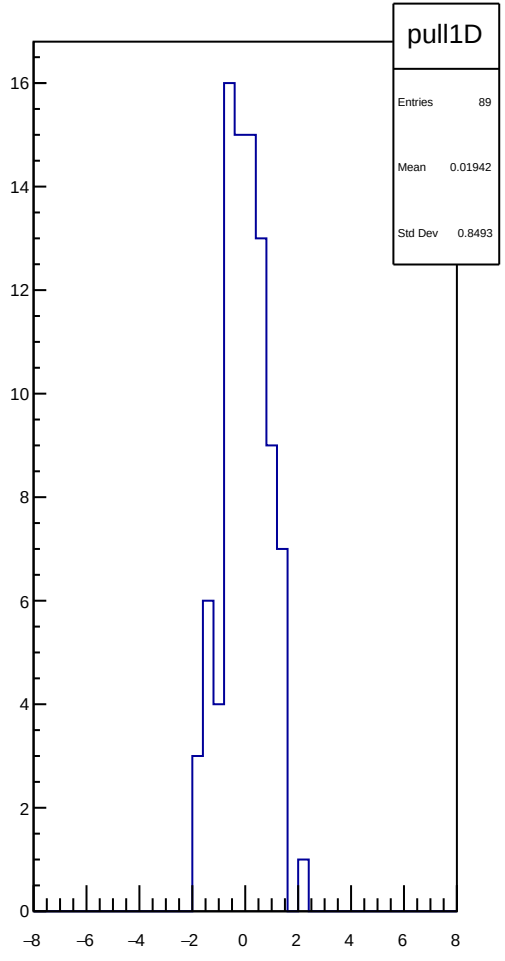

pull1D
Entries 89
Mean 0.01942
Std Dev 0.8493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

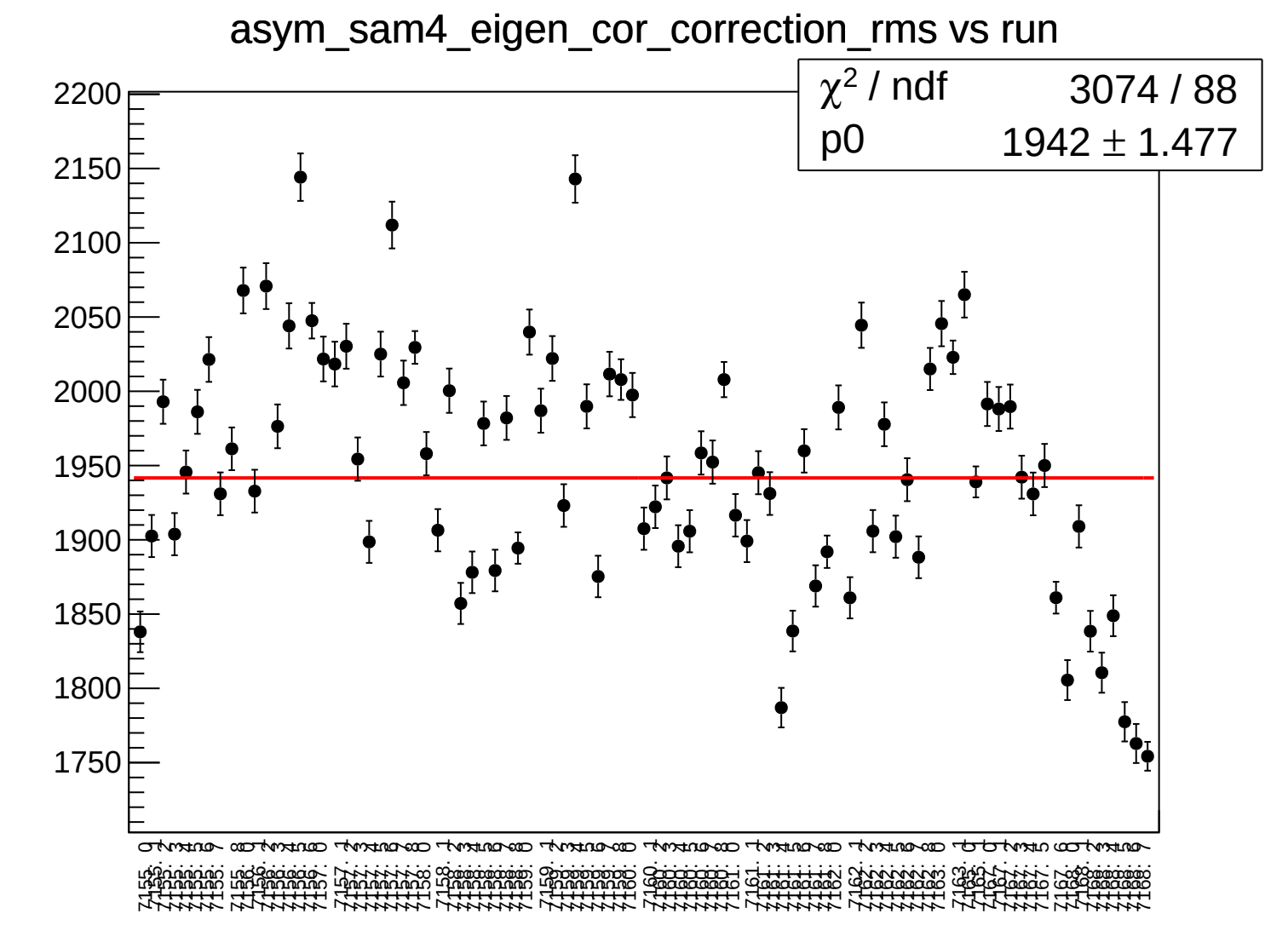

asym_sam4_cor_correction_rms vs run
χ² / ndf 3074 / 88
p0 1942 ± 1.477
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

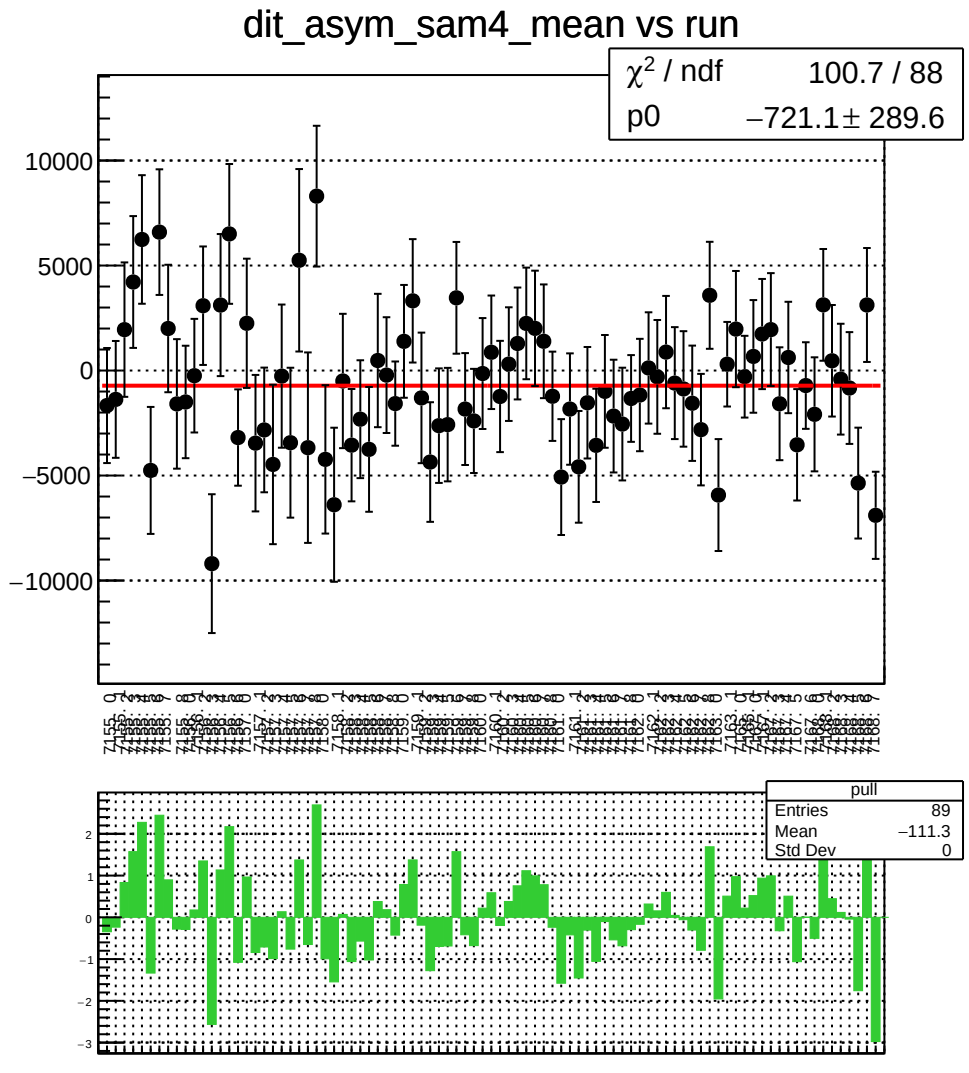

eigen_cor_asym_sam4_mean vs run
χ² / ndf 86.11 / 88
p0 −632 ± 254
pull
Entries 89
Mean −340.4
Std Dev 0
pull1D
Entries 89
Mean 0.005191
Std Dev 0.9836

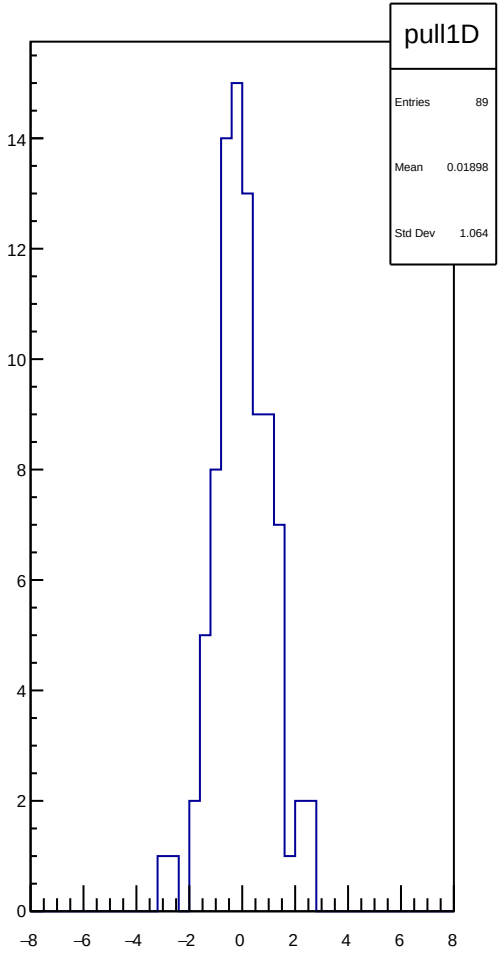

eigen_cor_asym_sam4_rms vs run
χ² / ndf 5066 / 88
p0 235.9 ± 0.1796
290
280
270
260
250
240
230
220

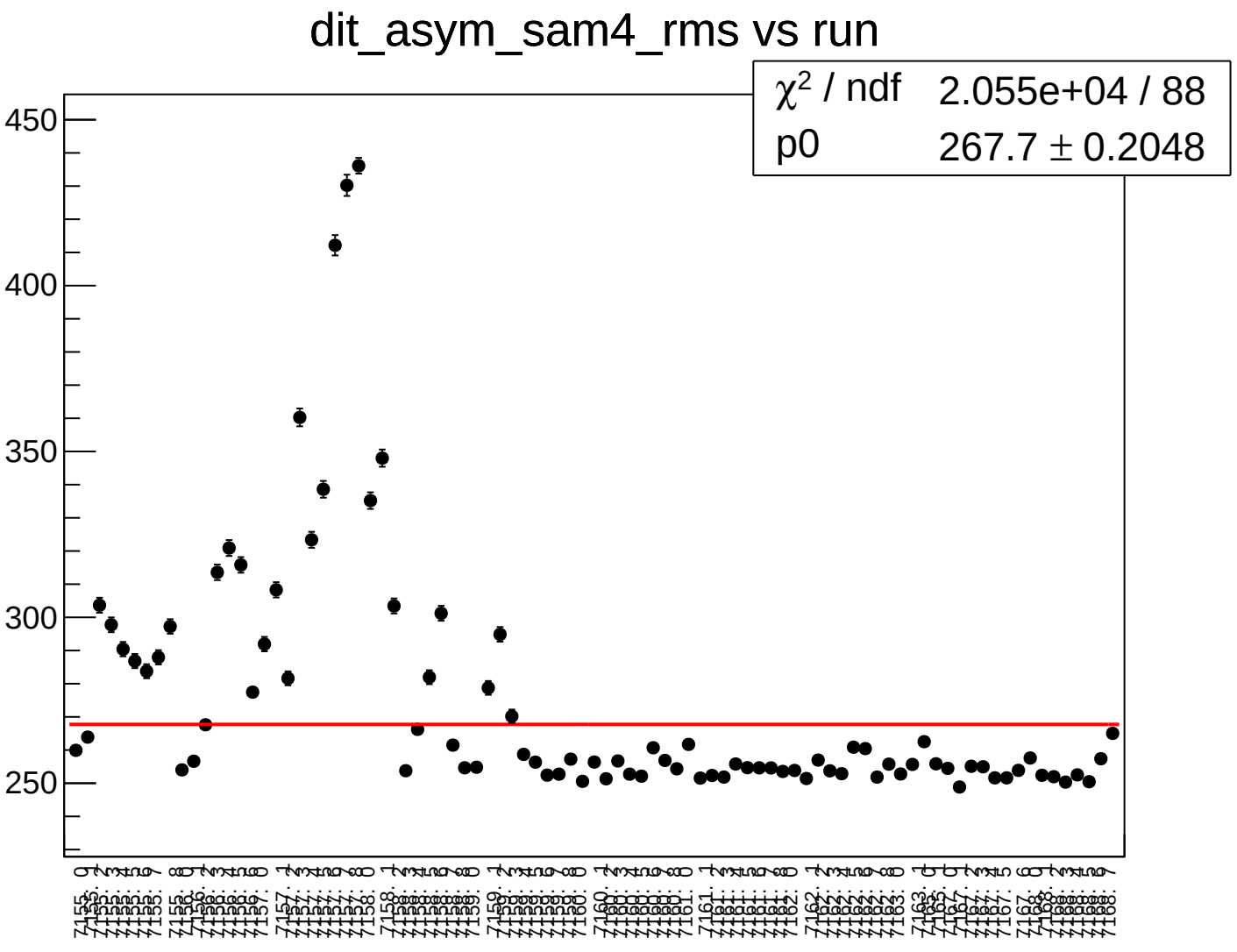

asym_sam4_eigen_cor_correction_mean vs run
χ² / ndf 64.23 / 88
p0 2147 ± 2089
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −93.85
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

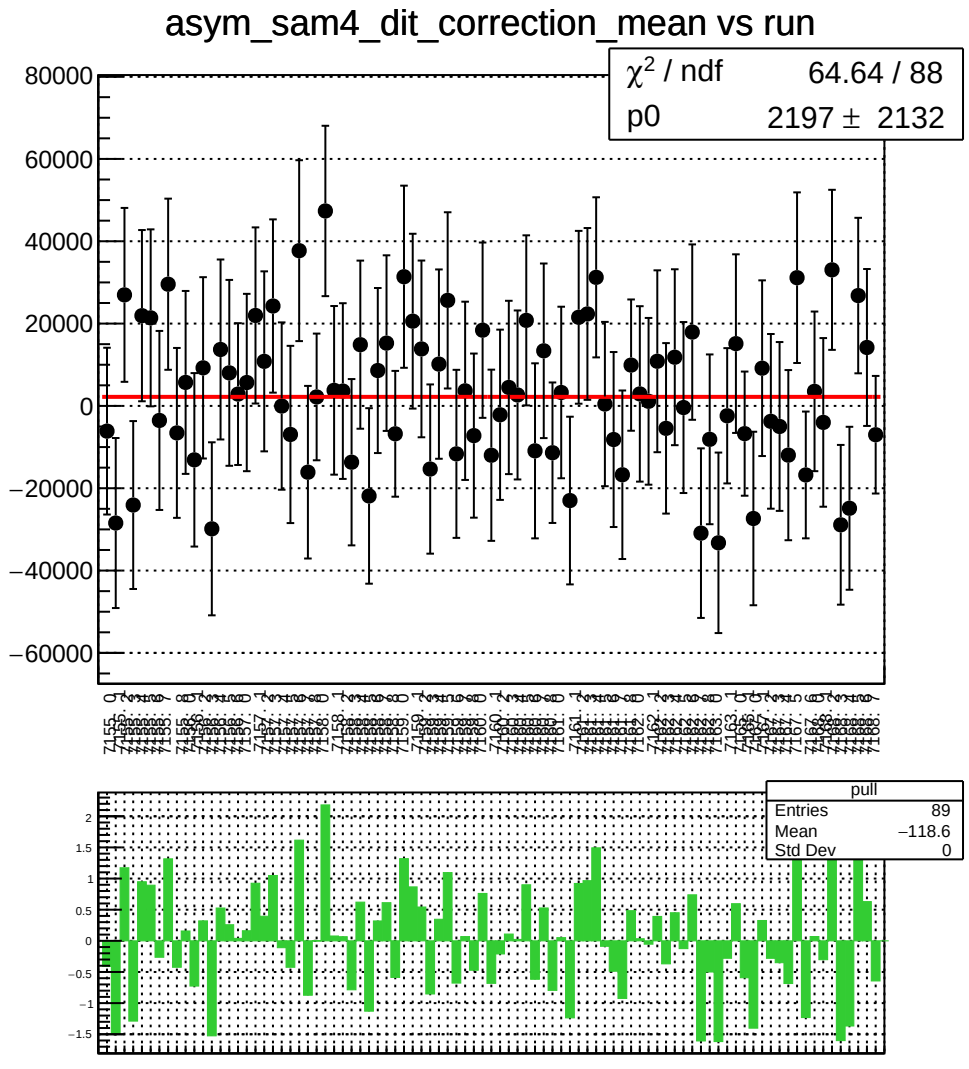

pull1D
Entries 89
Mean 0.01942
Std Dev 0.8493
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

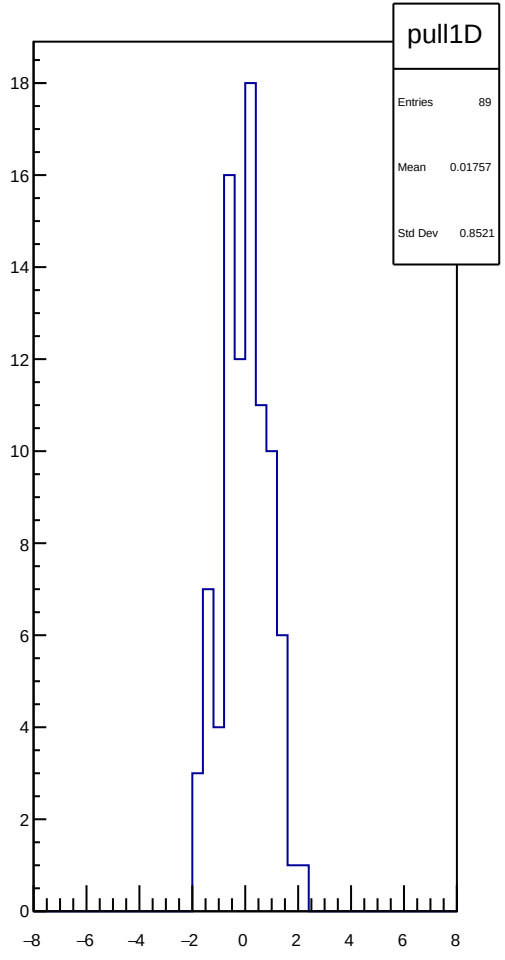

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 3074 / 88
p0 1942 ± 1.477
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

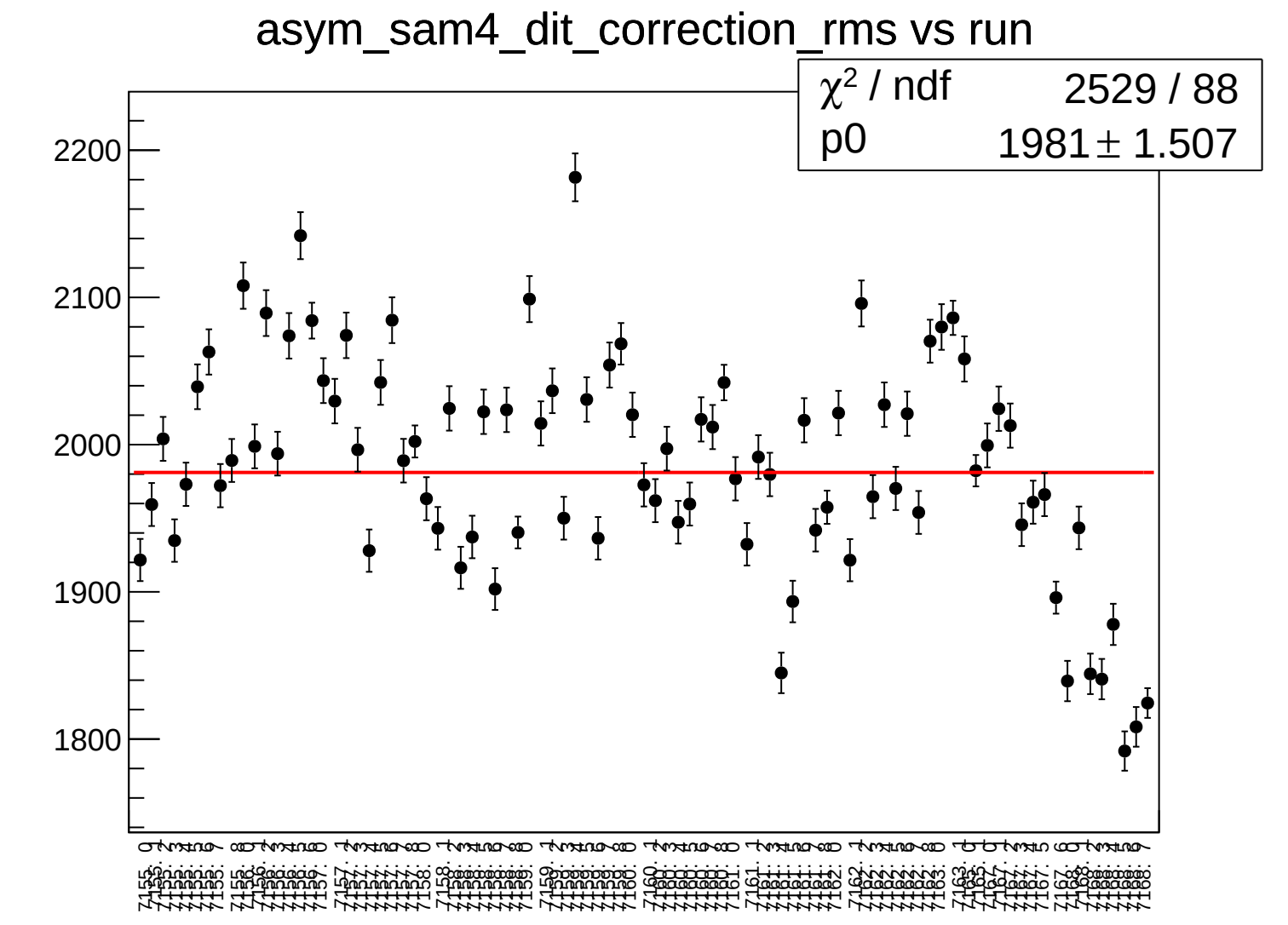

dit_asym_sam4_mean vs run
χ^2 / ndf 100.7 / 88
p0 −721.1± 289.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −111.3
Std Dev 0
2
1
0
−1
−2
−3

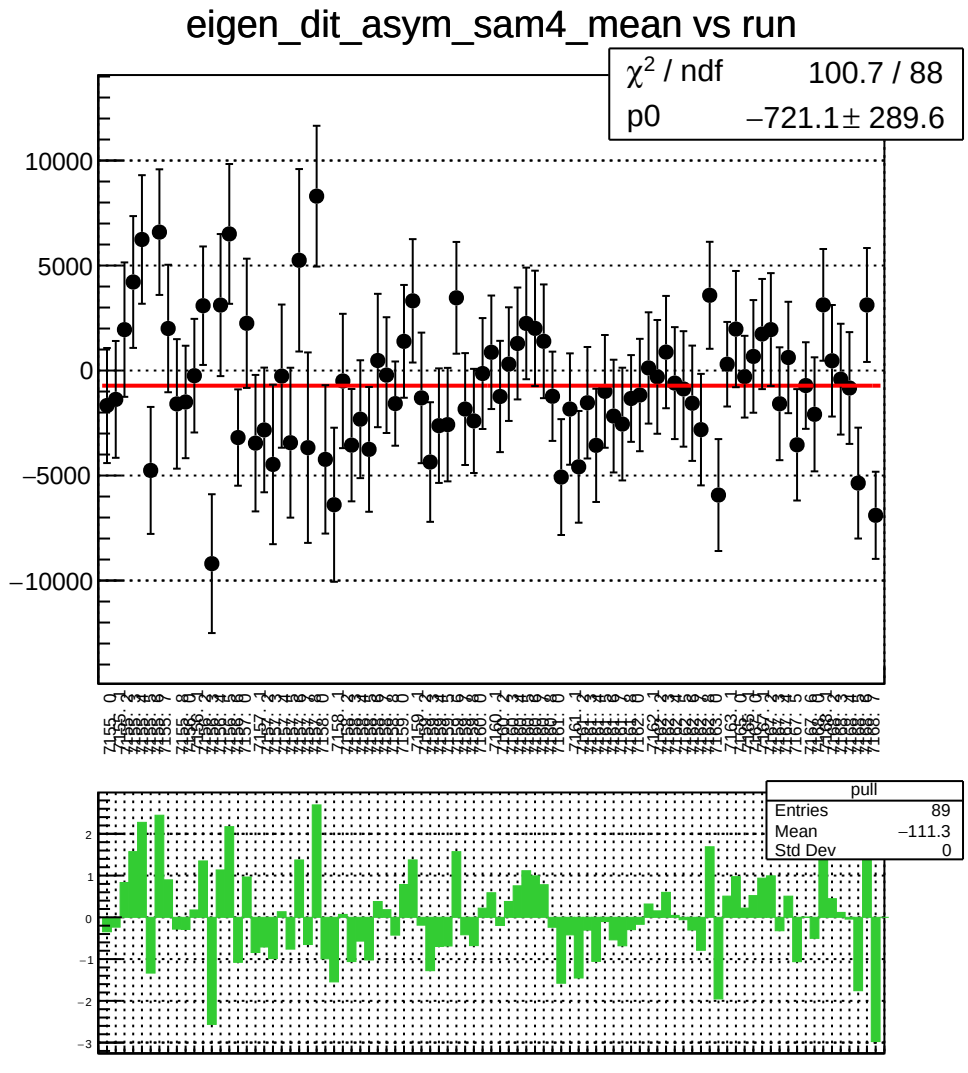

pull1D
Entries 89
Mean 0.01898
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

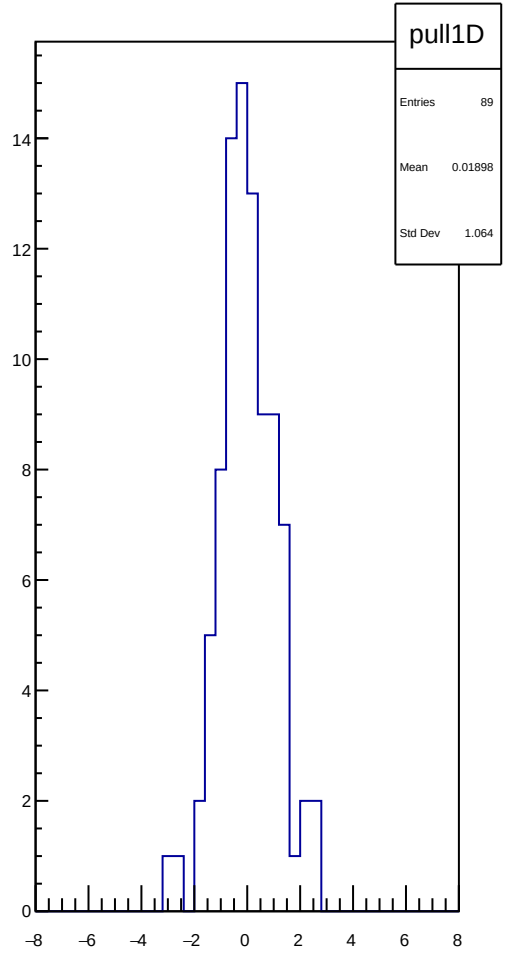

dit_asym_sam4_rms vs run
χ² / ndf 2.055e+04 / 88
p0 267.7 ± 0.2048
450
400
350
300
250

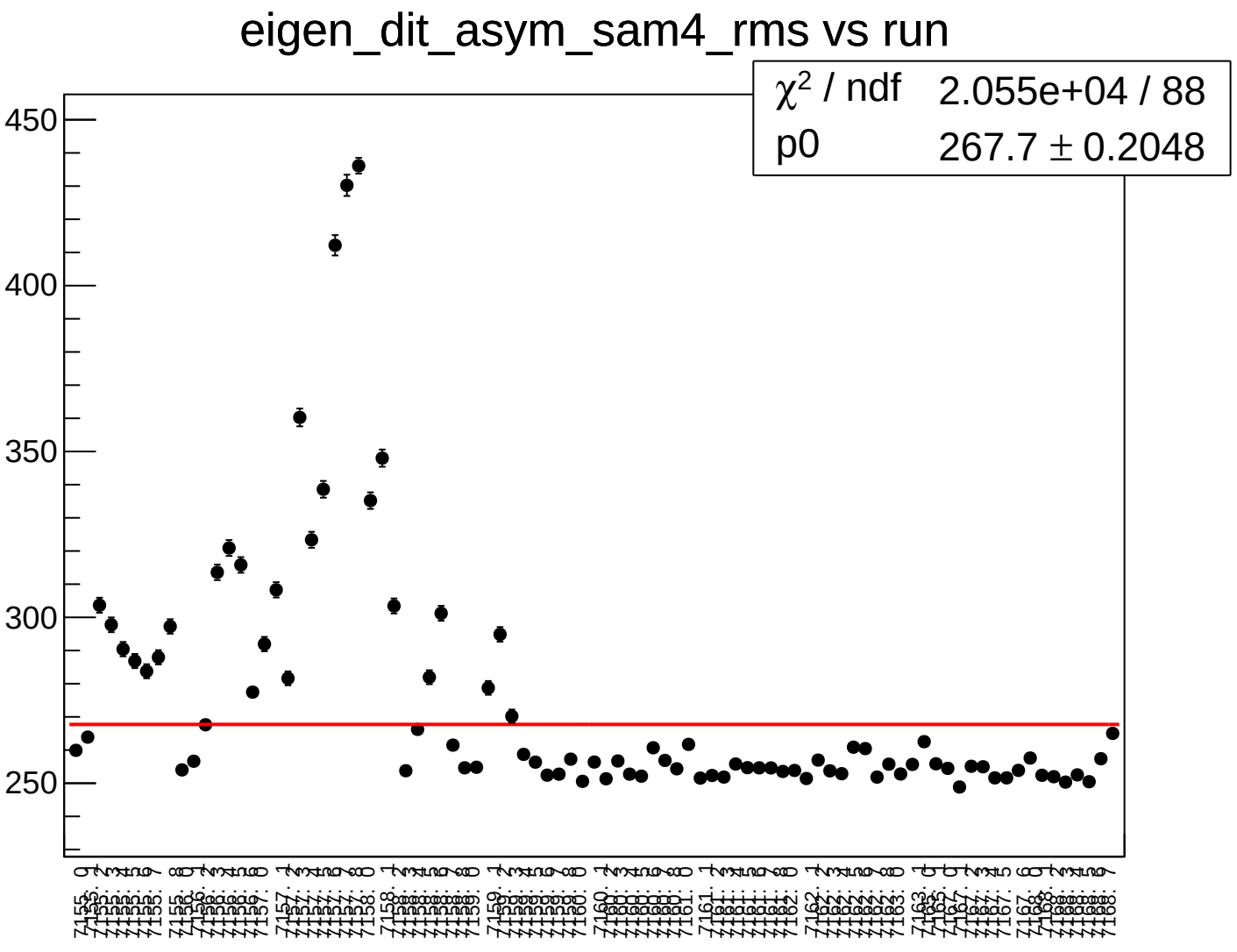

asym_sam4_dit_correction_mean vs run
χ² / ndf 64.64 / 88
p0 2197 ± 2132
pull
Entries 89
Mean −118.6
Std Dev 0

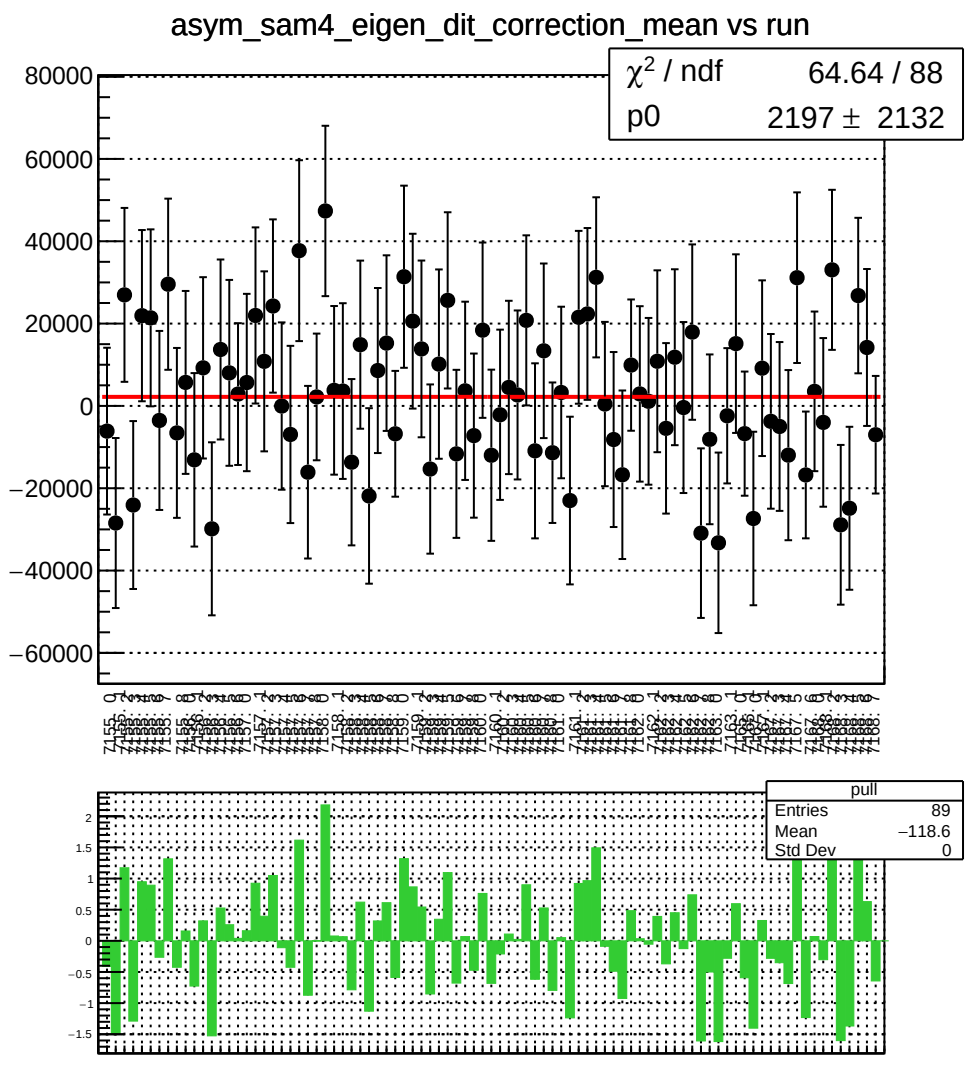

pull1D
Entries 89
Mean 0.01757
Std Dev 0.8521

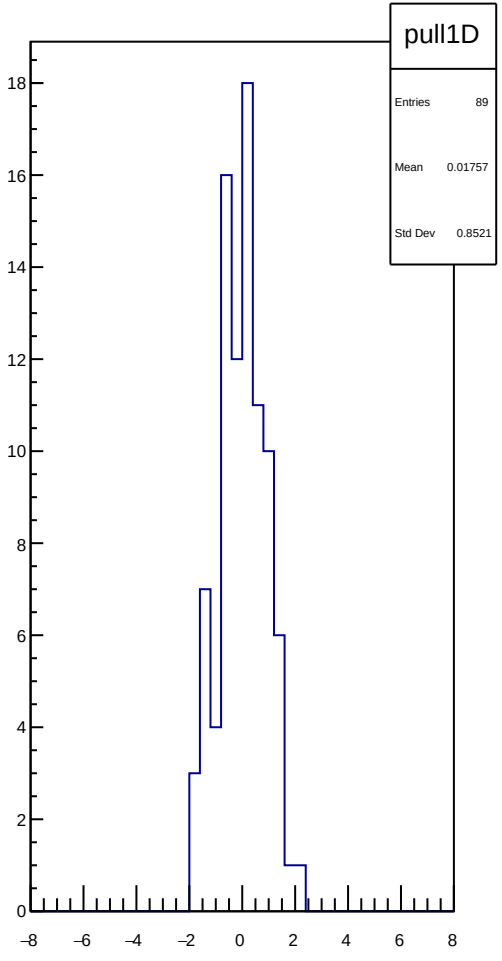

asym_sam4_dit_correction_rms vs run
χ² / ndf 2529 / 88
p0 1981 ± 1.507
2200
2100
2000
1900
1800

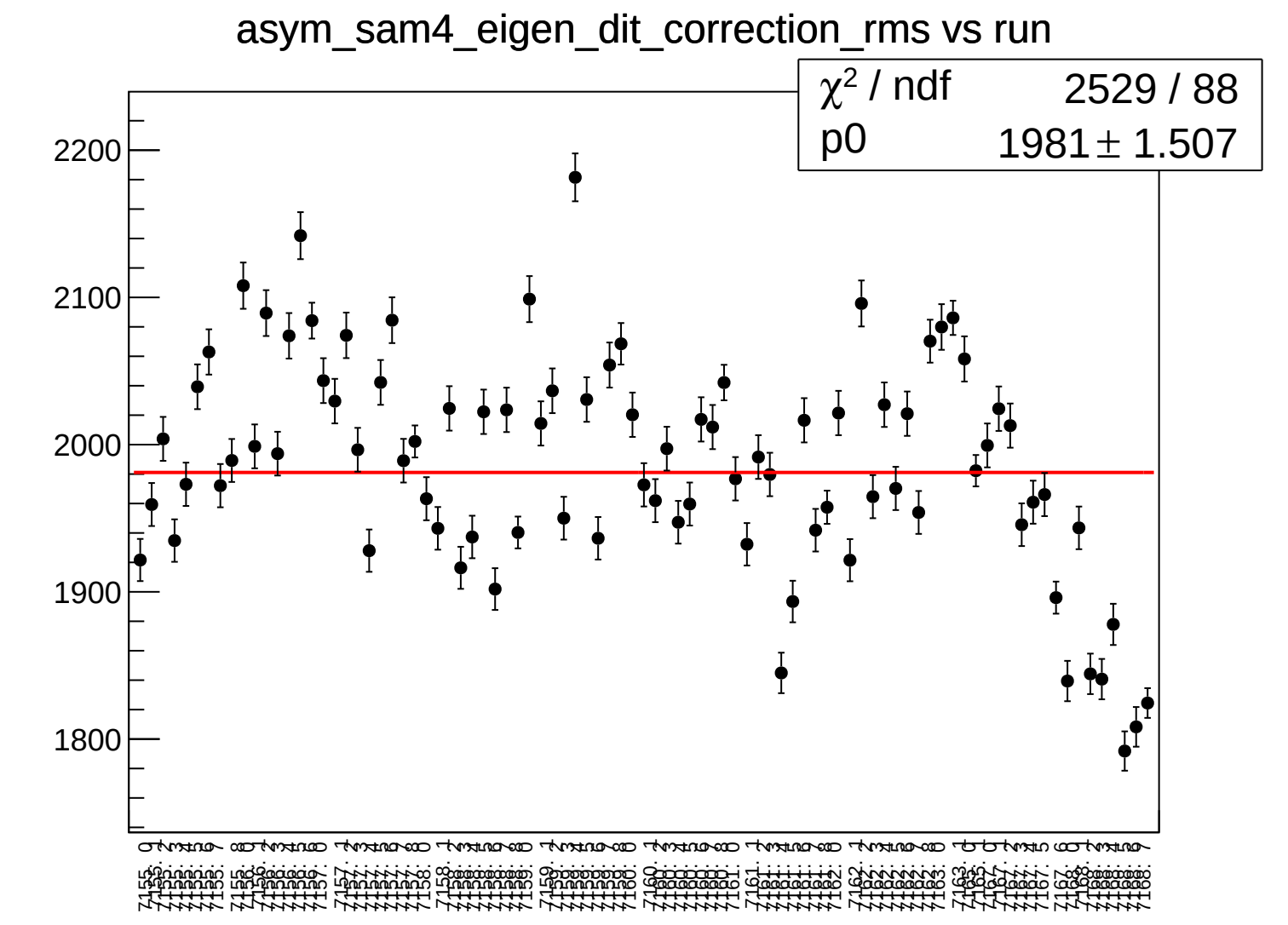

eigen_dit_asym_sam4_mean vs run
χ² / ndf 100.7 / 88
p0 −721.1± 289.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −111.3
Std Dev 0
2
1
0
−1
−2
−3

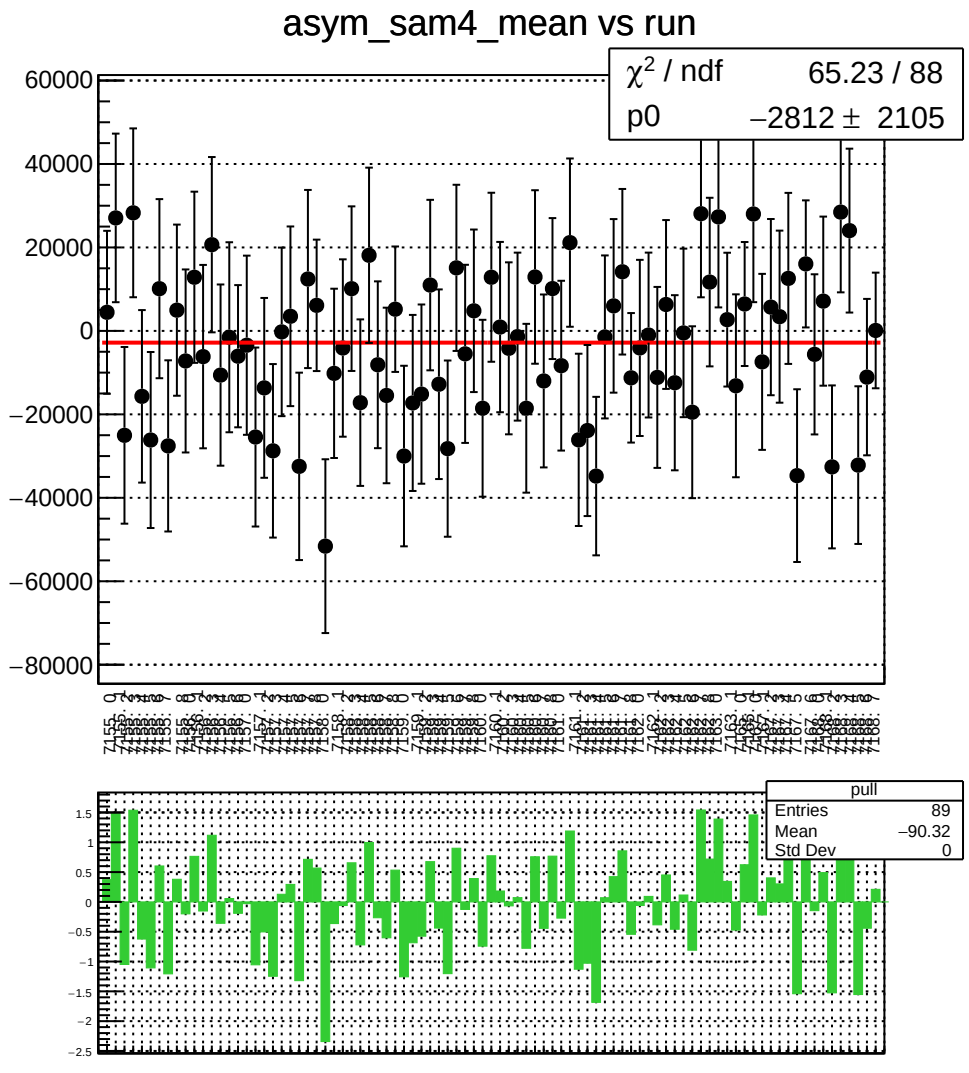

pull1D
Entries 89
Mean 0.01898
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

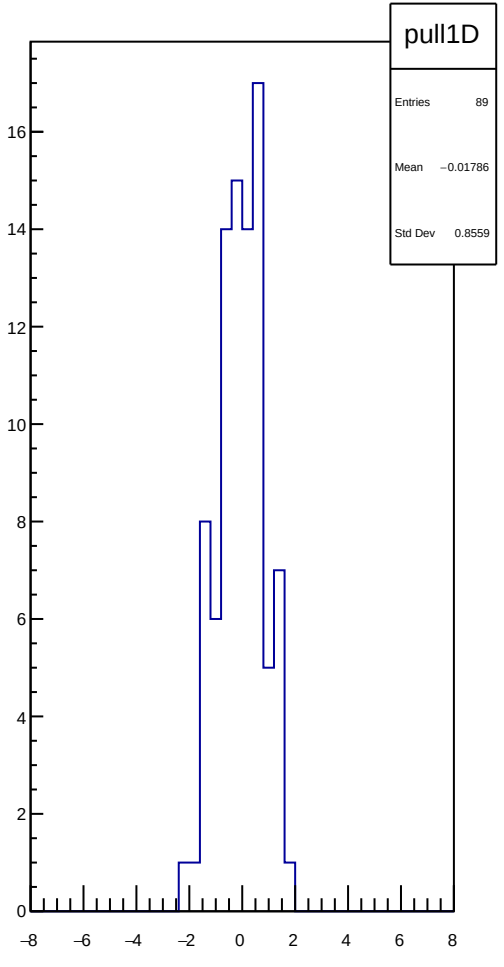

eigen_dit_asym_sam4_rms vs run
χ² / ndf 2.055e+04 / 88
p0 267.7 ± 0.2048
450
400
350
300
250

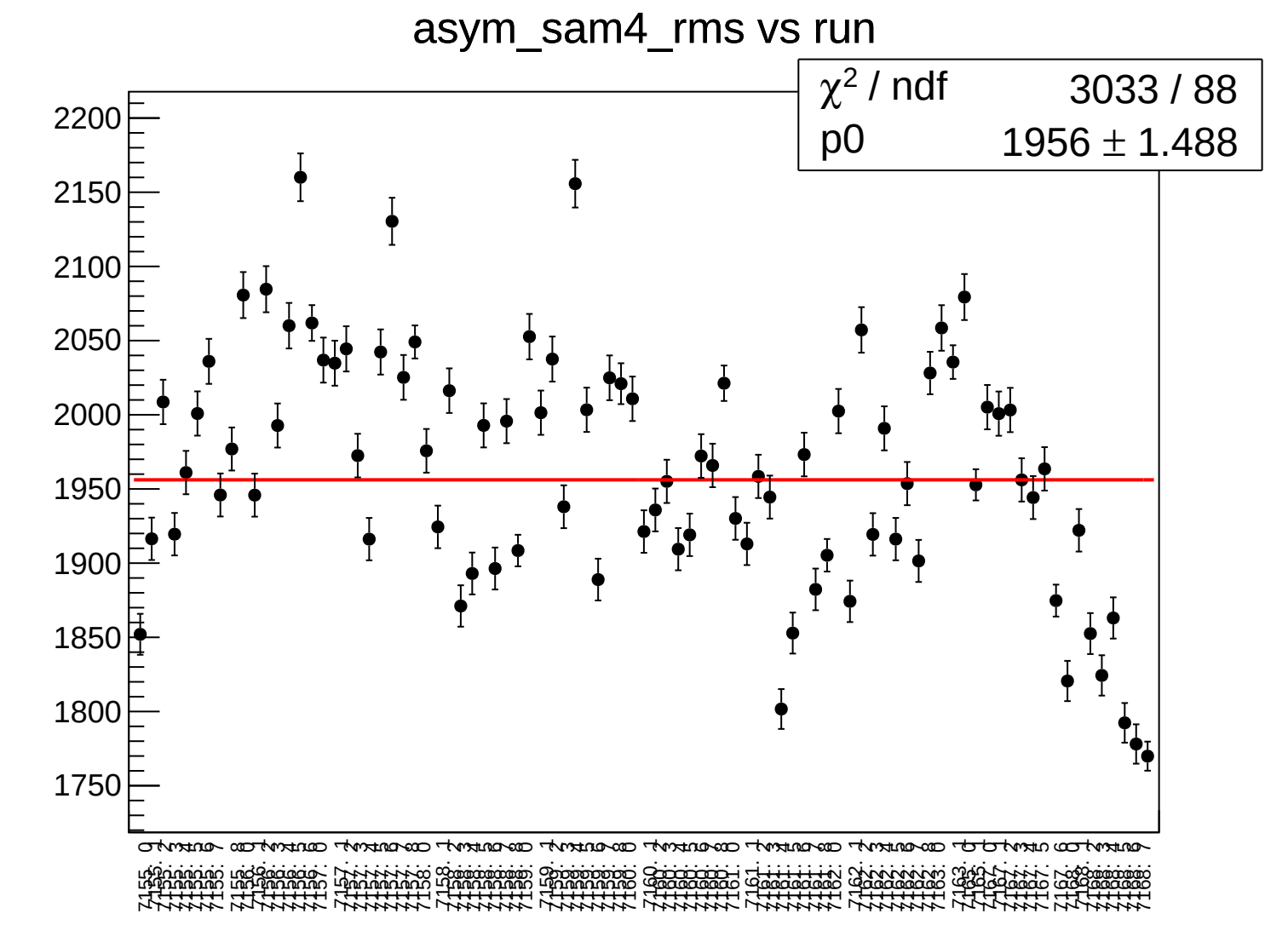

asym_sam4_eigen_dit_correction_mean vs run
χ² / ndf 64.64 / 88
p0 2197 ± 2132
pull
Entries 89
Mean −118.6
Std Dev 0

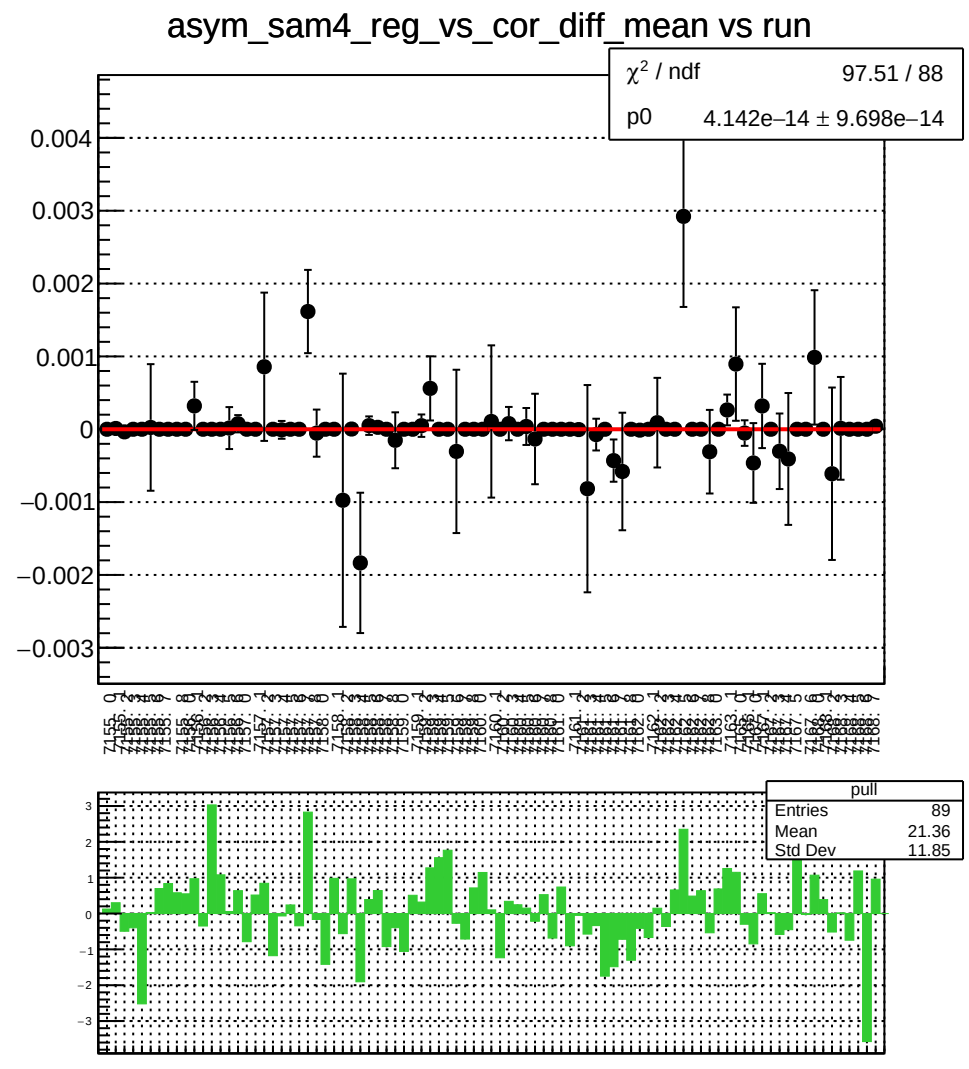

pull1D
Entries 89
Mean 0.01757
Std Dev 0.8521

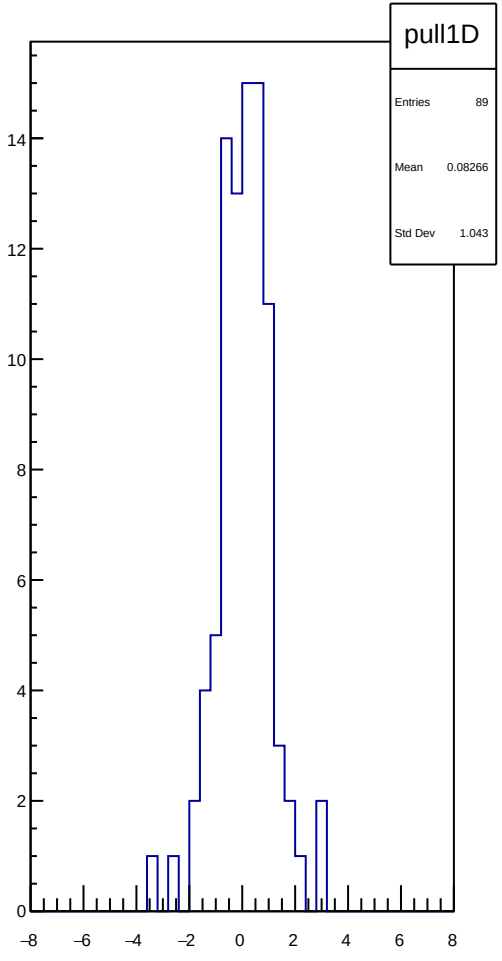

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 2529 / 88
p0 1981 ± 1.507
2200
2100
2000
1900
1800

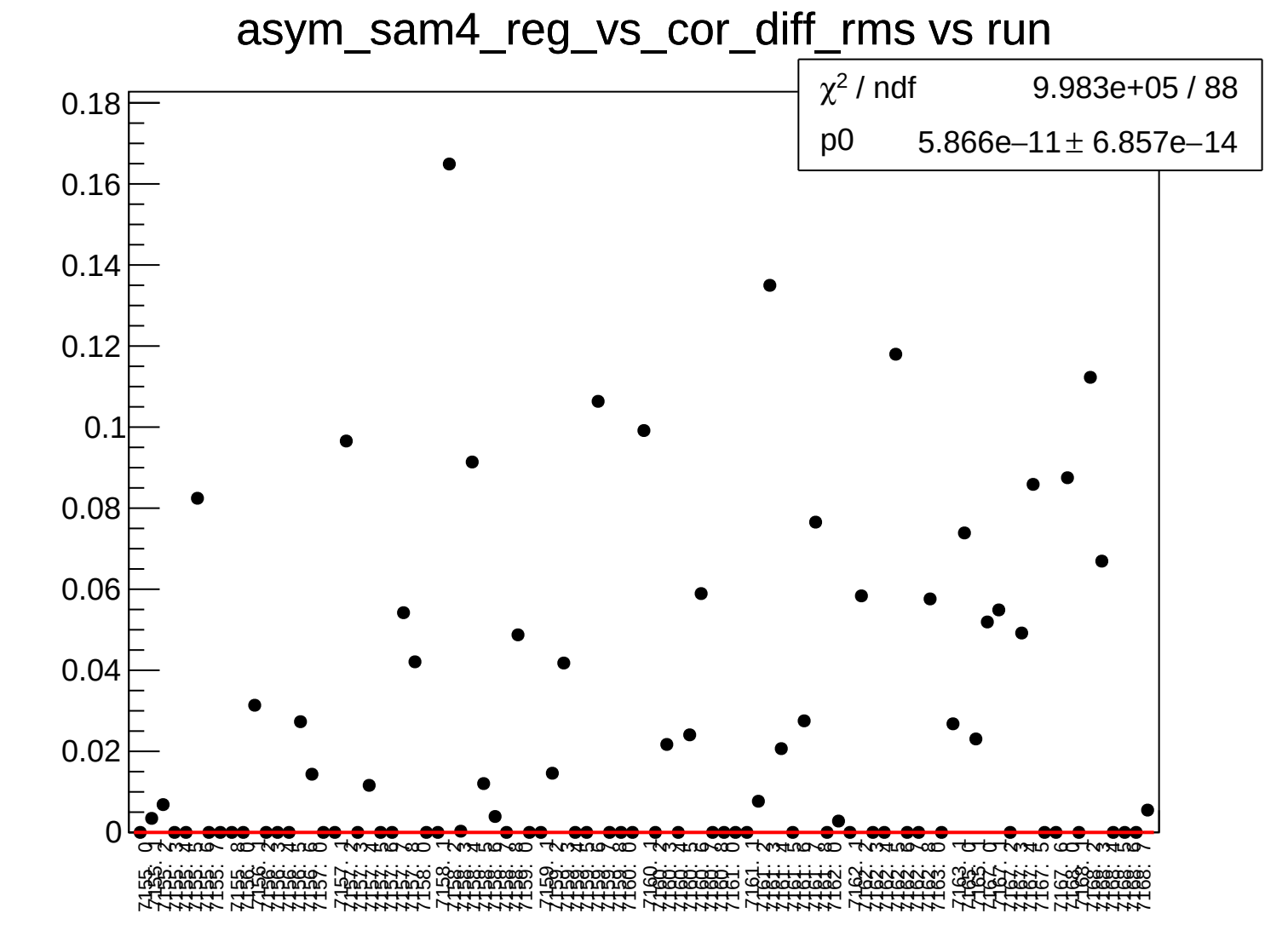

asym_sam4_mean vs run
χ² / ndf 65.23 / 88
p0 −2812 ± 2105
pull
Entries 89
Mean −90.32
Std Dev 0

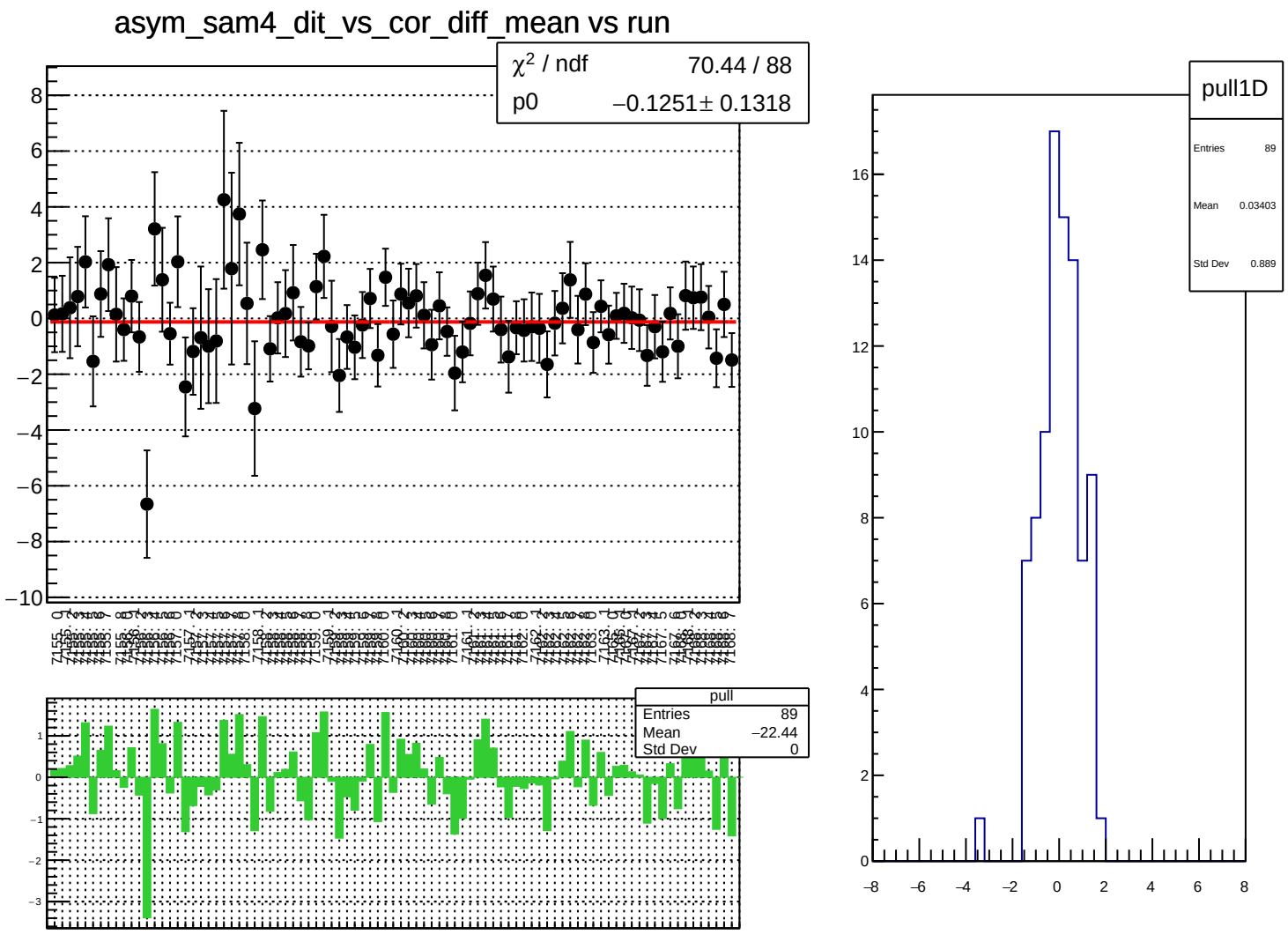

pull1D
Entries 89
Mean −0.01786
Std Dev 0.8559

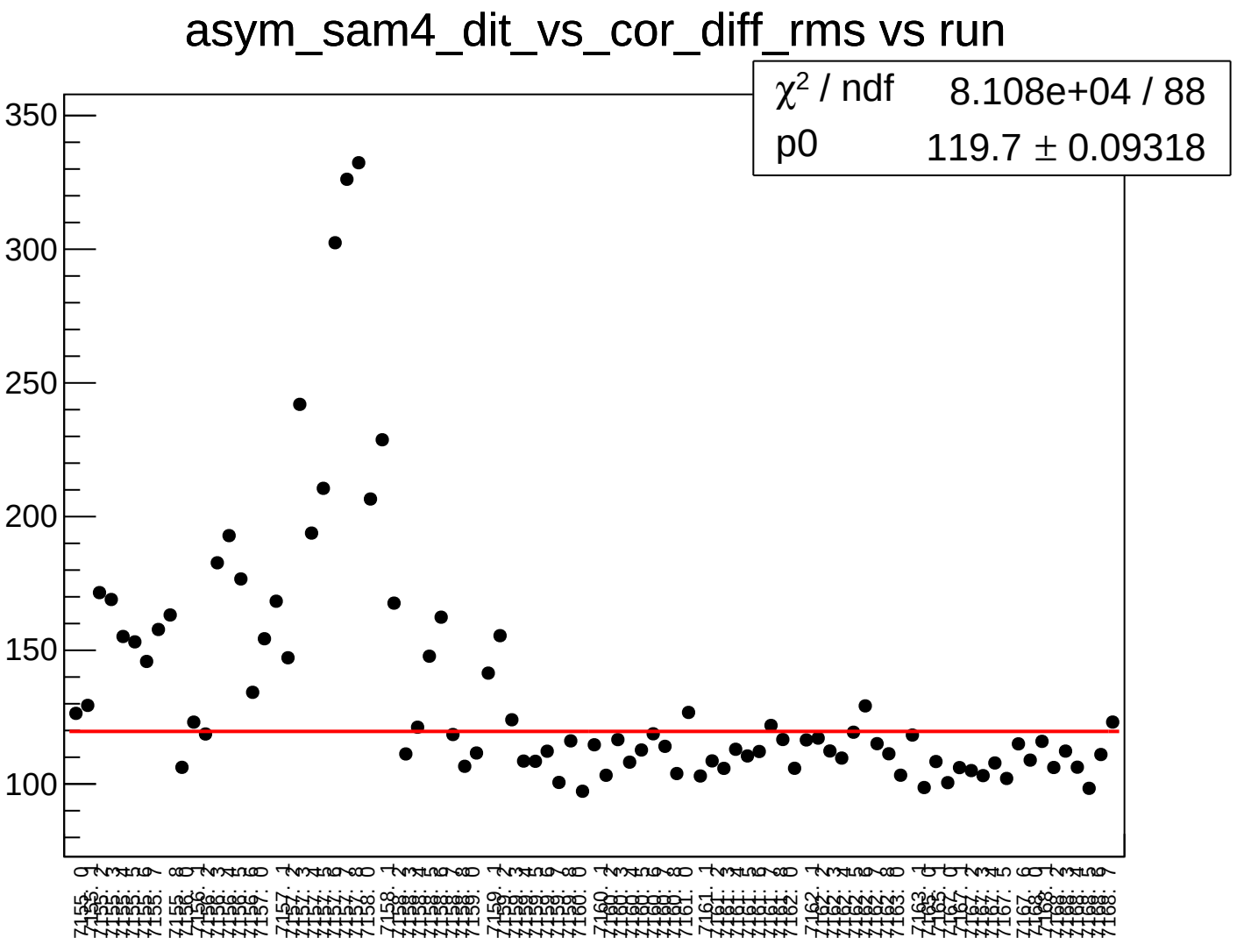

asym_sam4_rms vs run
χ² / ndf 3033 / 88
p0 1956 ± 1.488
2200
2150
2100
2050
2000
1950
1900
1850
1800
1750

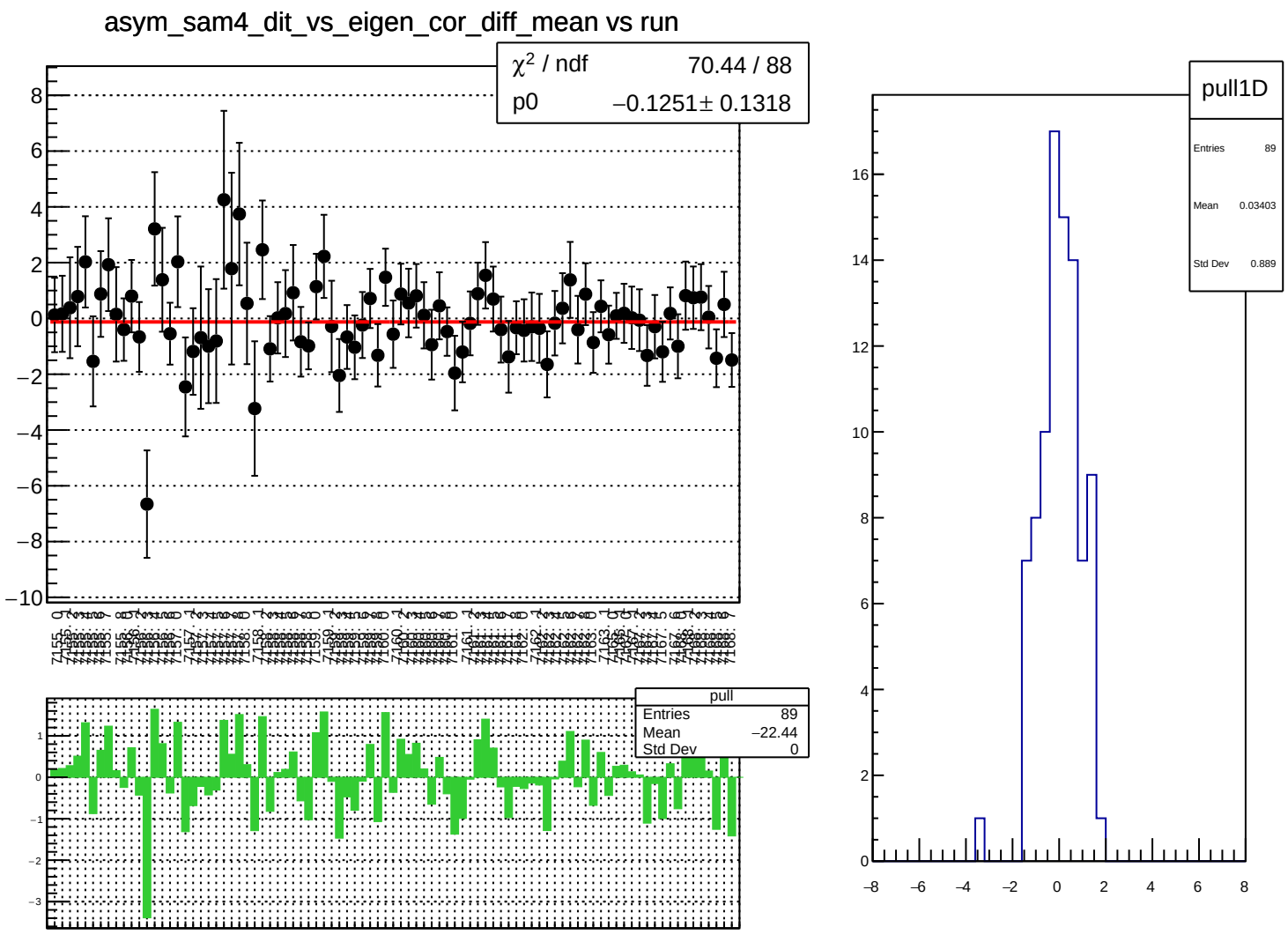

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 97.51 / 88
p0 4.142e−14 ± 9.698e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 21.36
Std Dev 11.85
3
2
1
0
−1
−2
−3

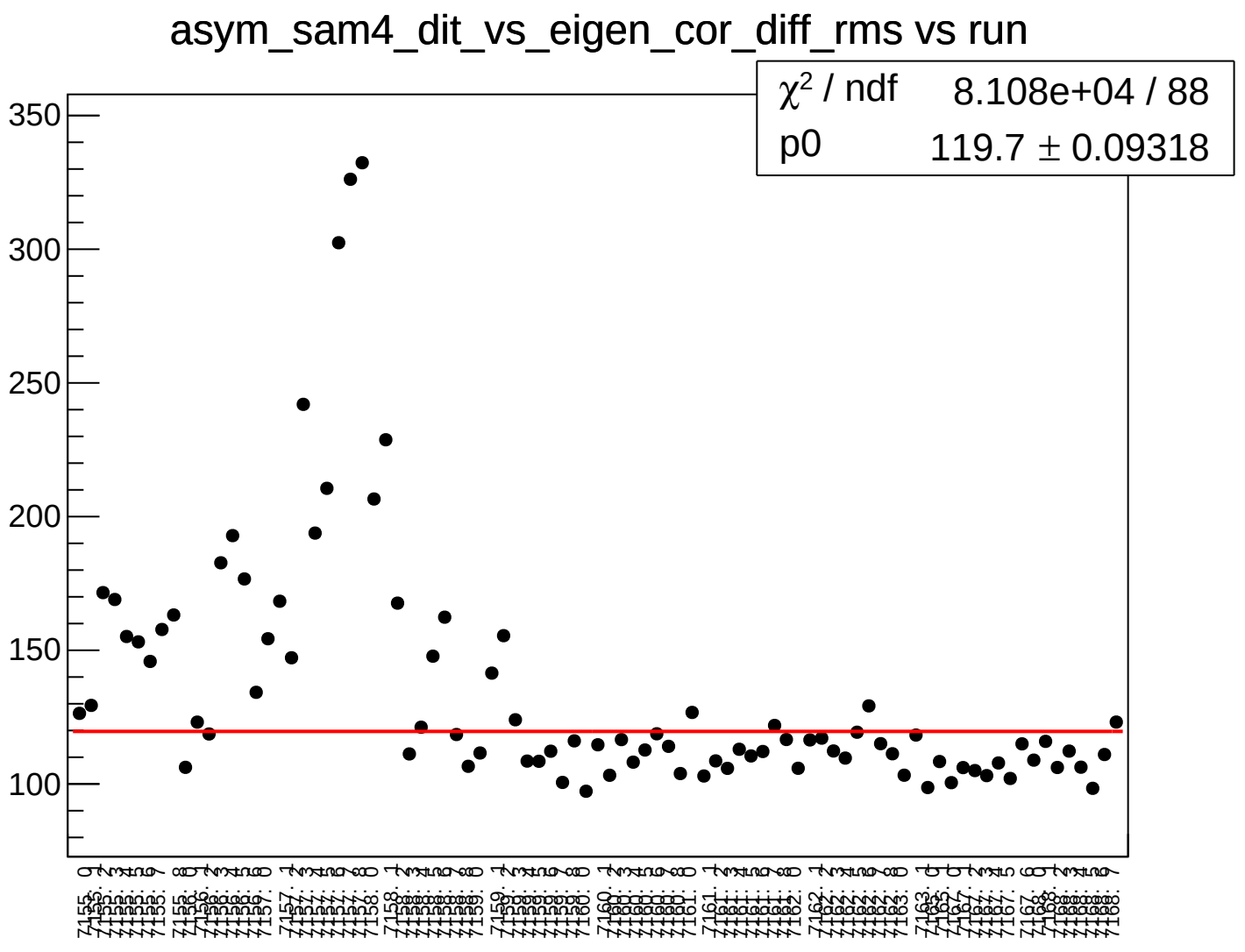

pull1D
Entries 89
Mean 0.08266
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

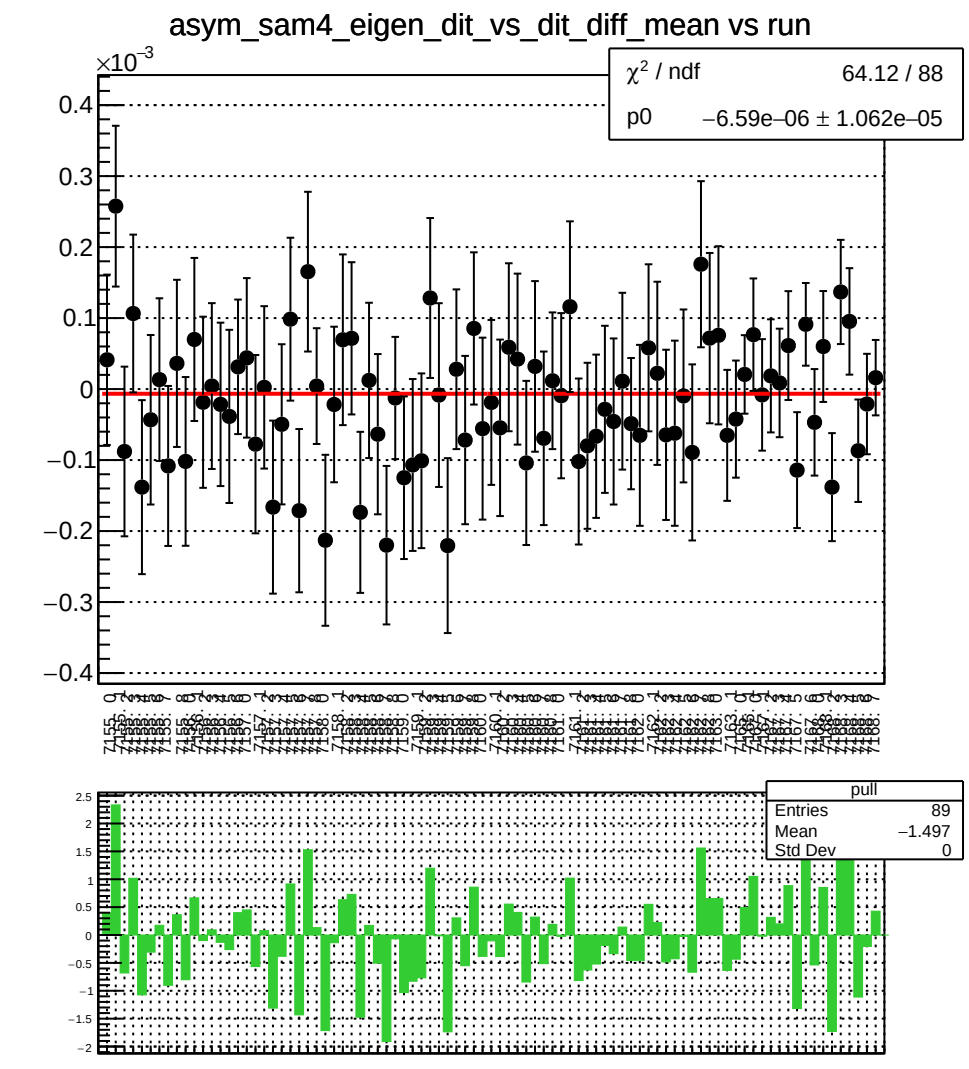

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.983e+05 / 88
p0 5.866e−11 ± 6.857e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

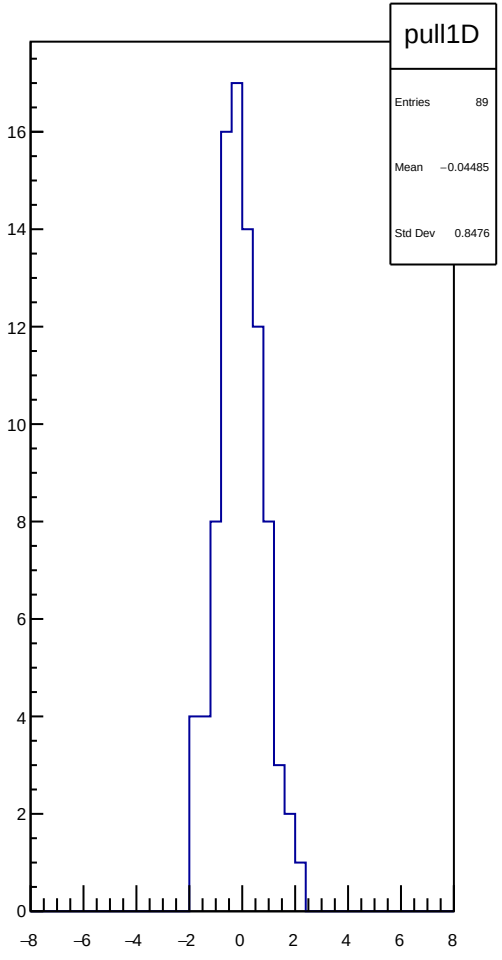

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 70.44 / 88
p0 −0.1251± 0.1318
pull
Entries 89
Mean −22.44
Std Dev 0
pull1D
Entries 89
Mean 0.03403
Std Dev 0.889

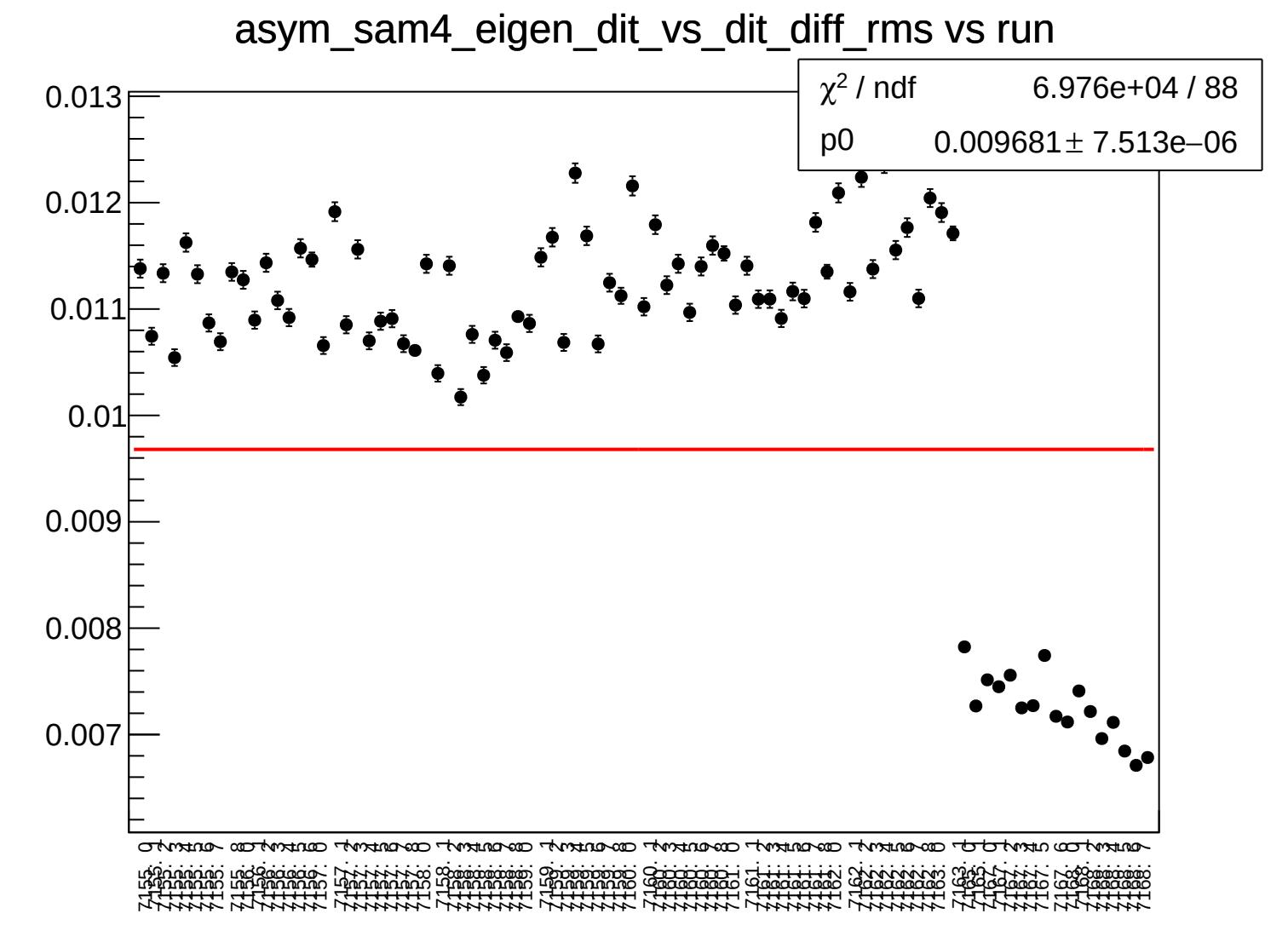

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.108e+04 / 88
p0 119.7 ± 0.09318
350
300
250
200
150
100

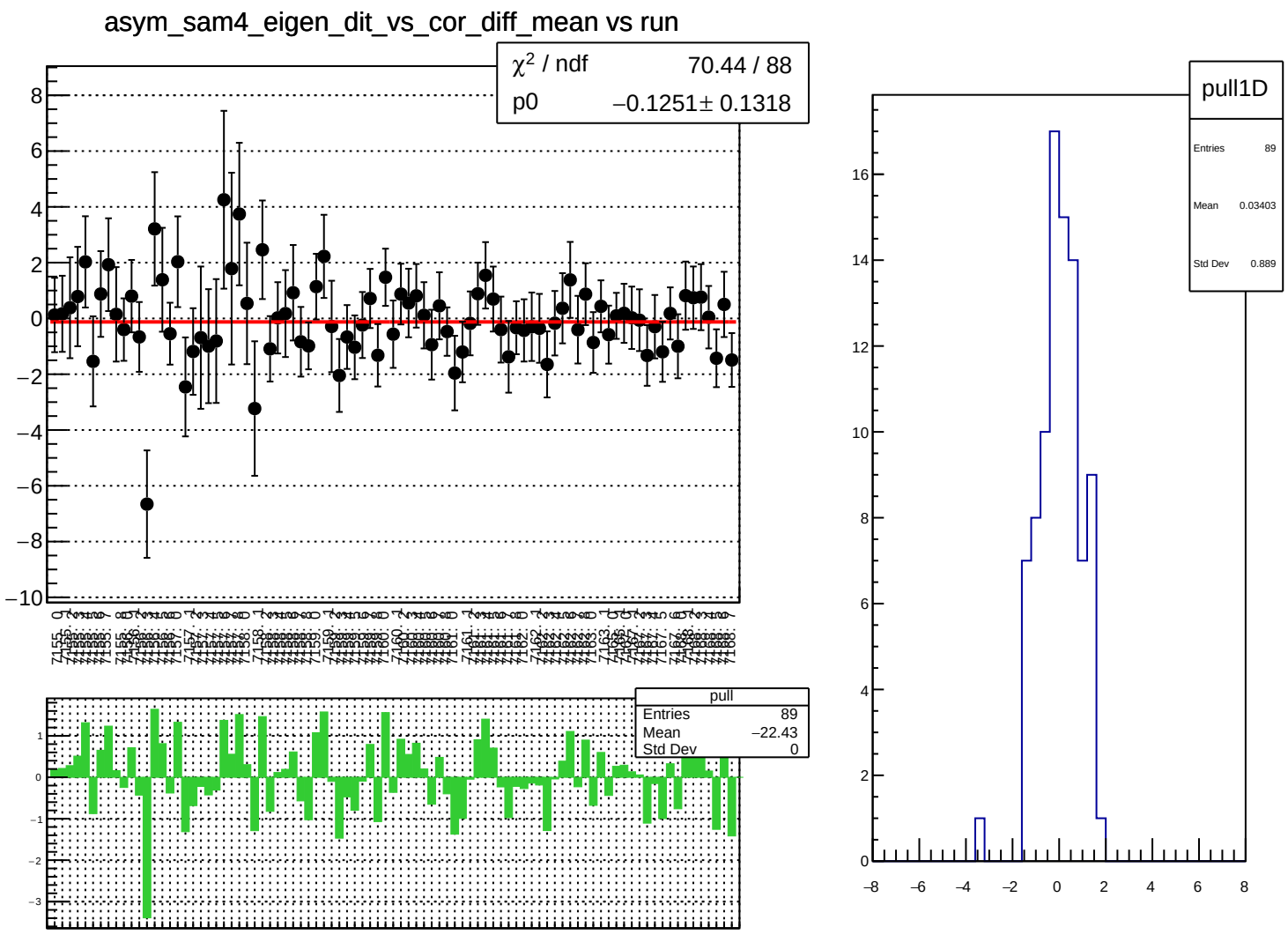

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.44 / 88
p0 −0.1251± 0.1318
pull
Entries 89
Mean −22.44
Std Dev 0
pull1D
Entries 89
Mean 0.03403
Std Dev 0.889

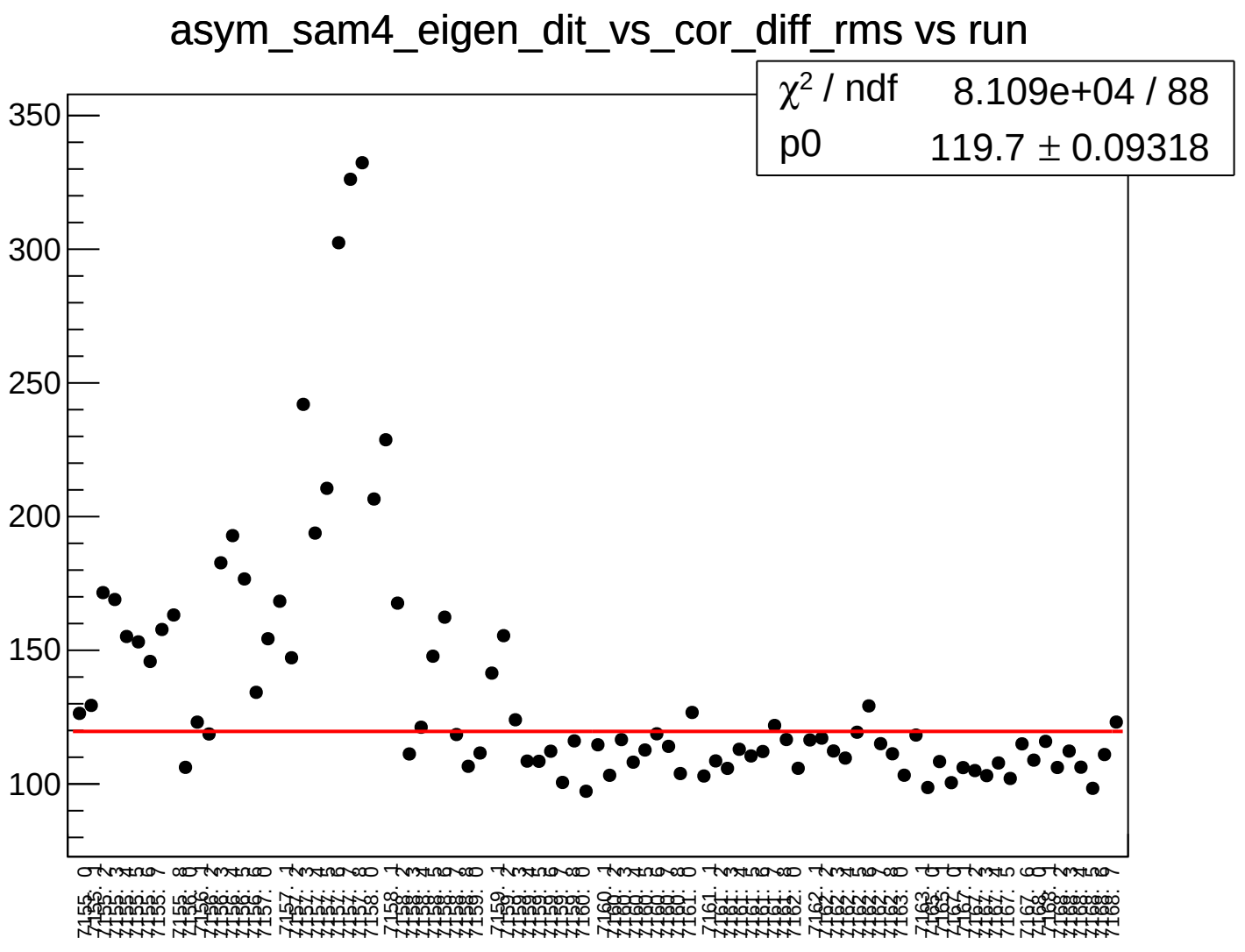

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.108e+04 / 88
p0 119.7 ± 0.09318
350
300
250
200
150
100

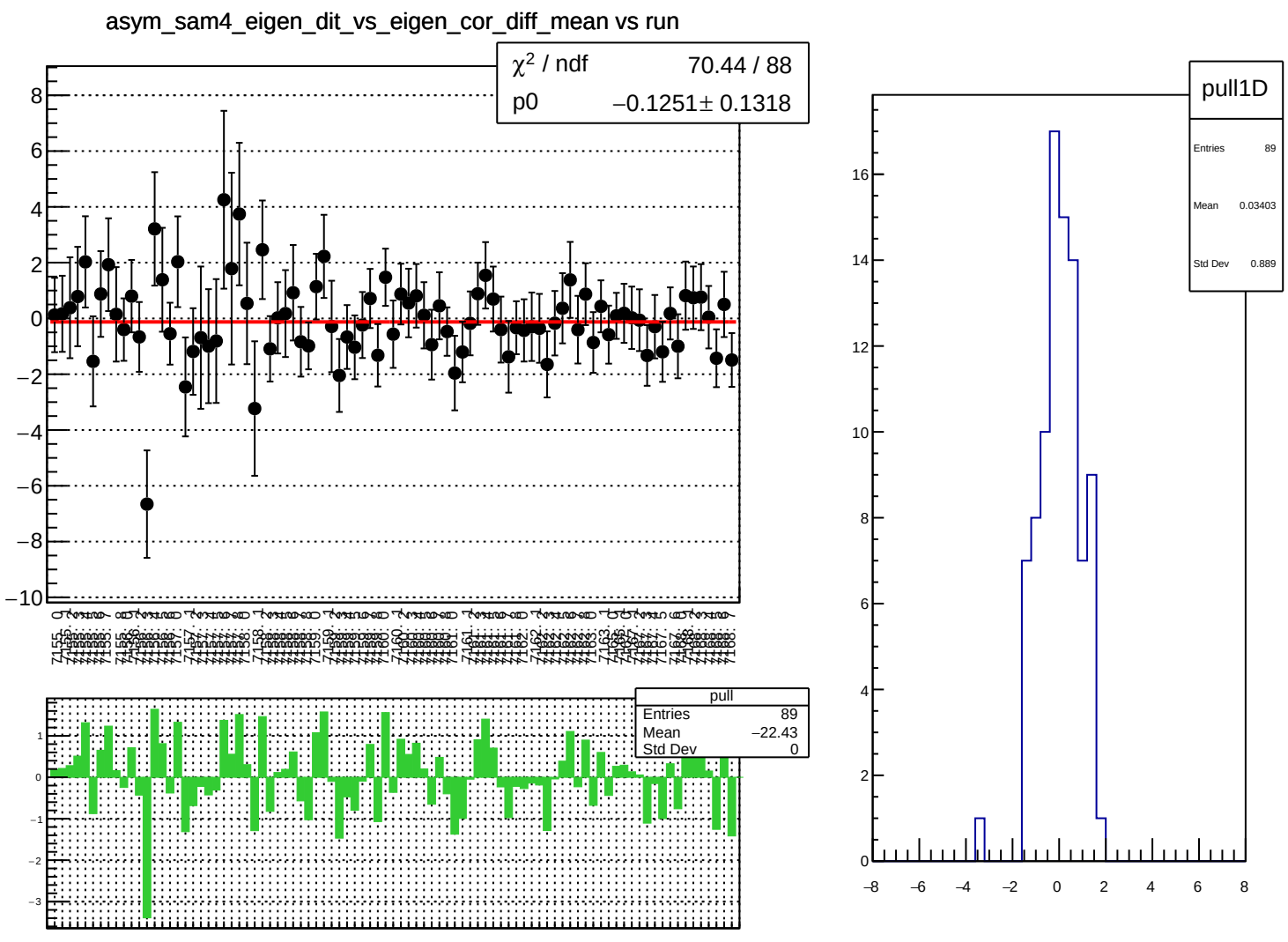

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.12 / 88
p0 −6.59e−06 ± 1.062e−05
pull
Entries 89
Mean −1.497
Std Dev 0

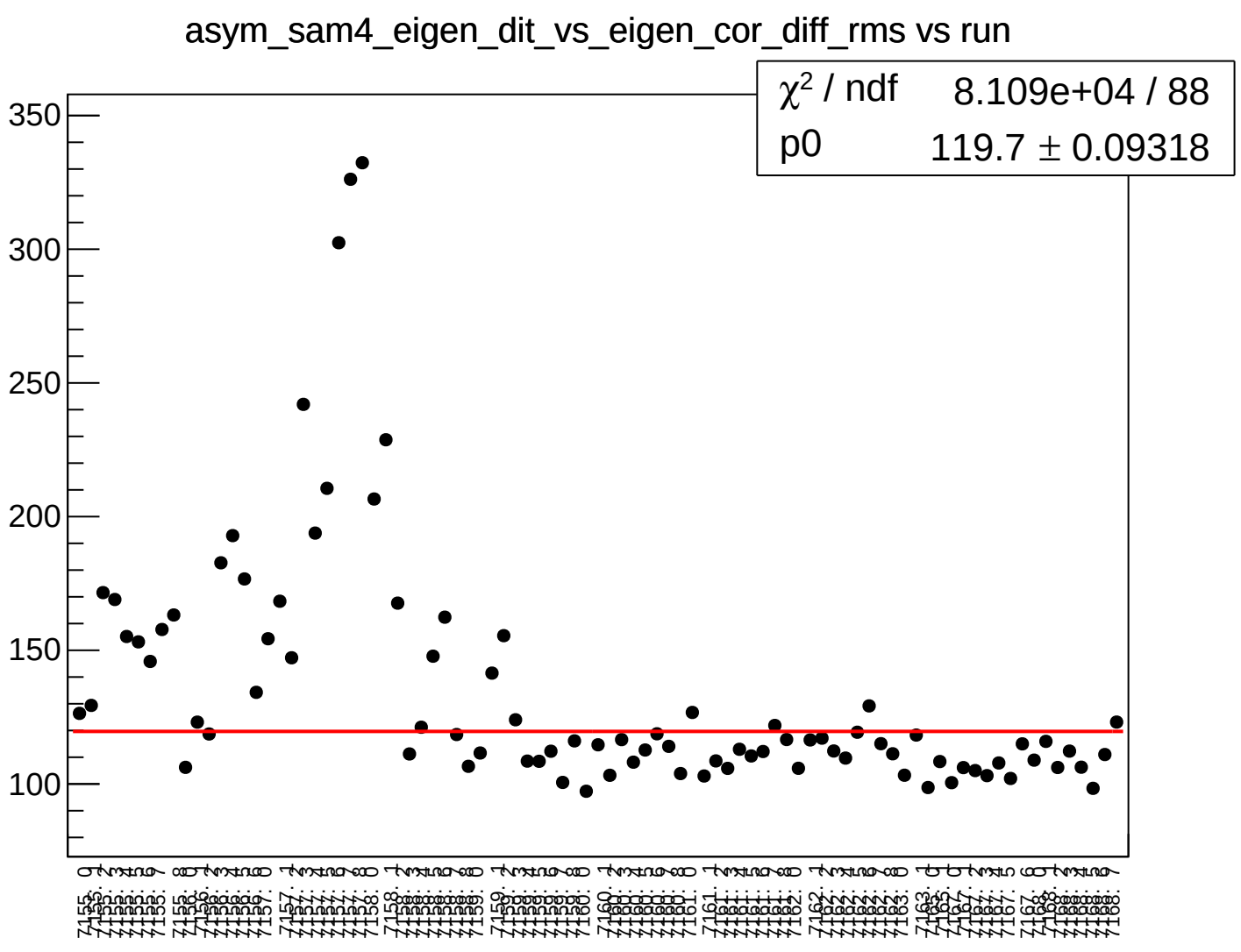

pull1D
Entries 89
Mean −0.04485
Std Dev 0.8476

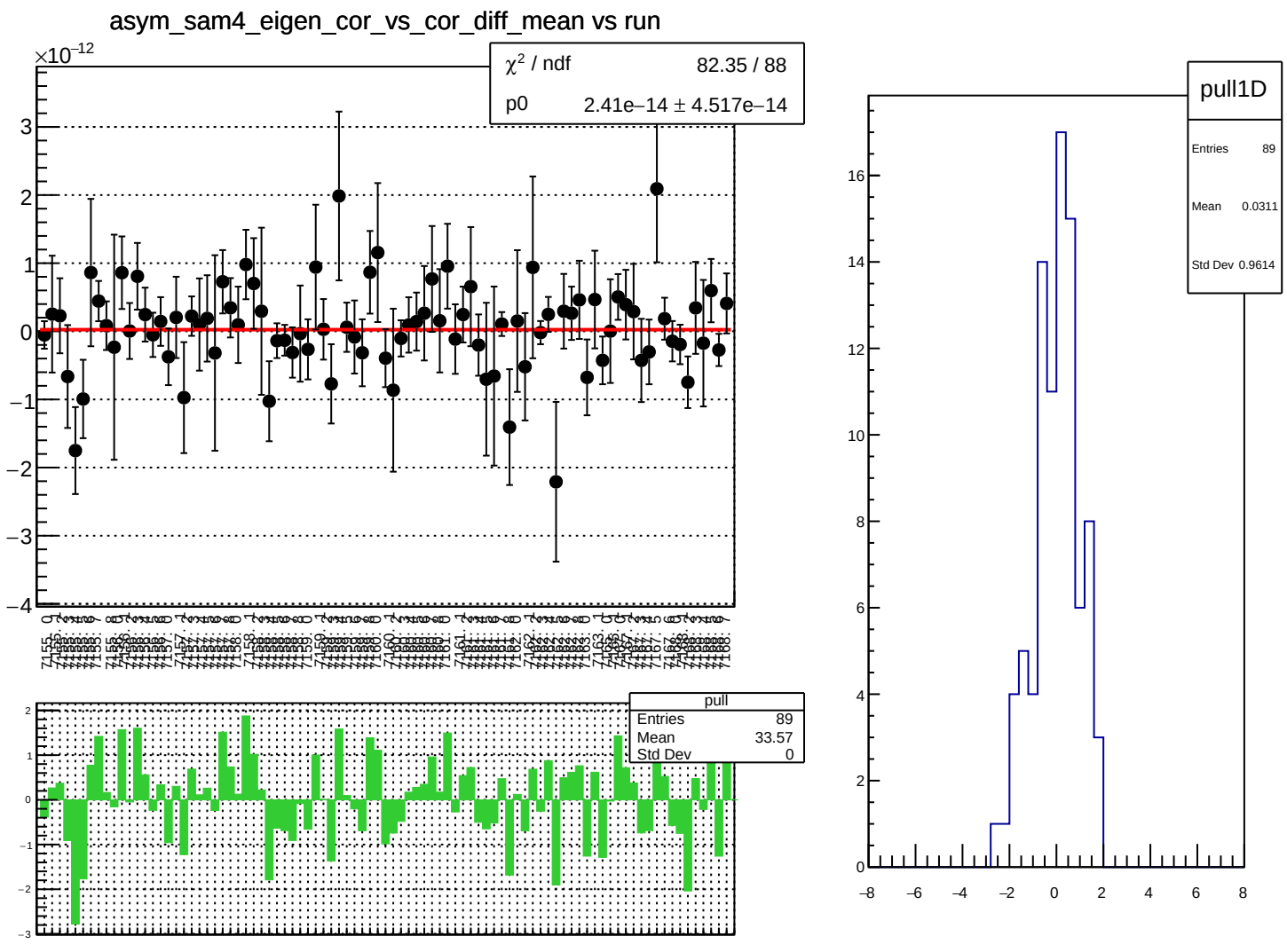

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.976e+04 / 88
p0 0.009681 ± 7.513e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

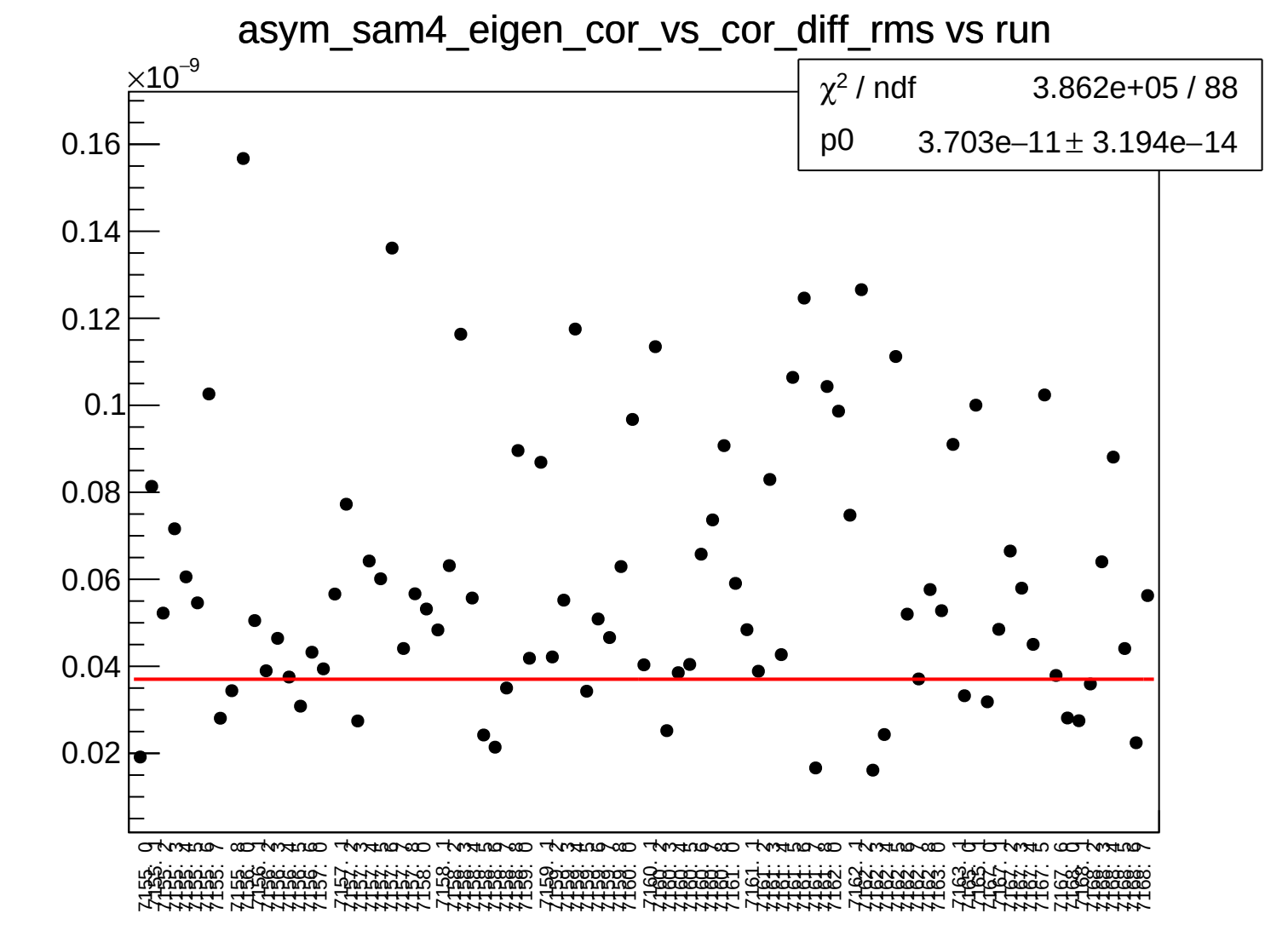

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.44 / 88
p0 −0.1251± 0.1318
pull
Entries 89
Mean −22.43
Std Dev 0
pull1D
Entries 89
Mean 0.03403
Std Dev 0.889

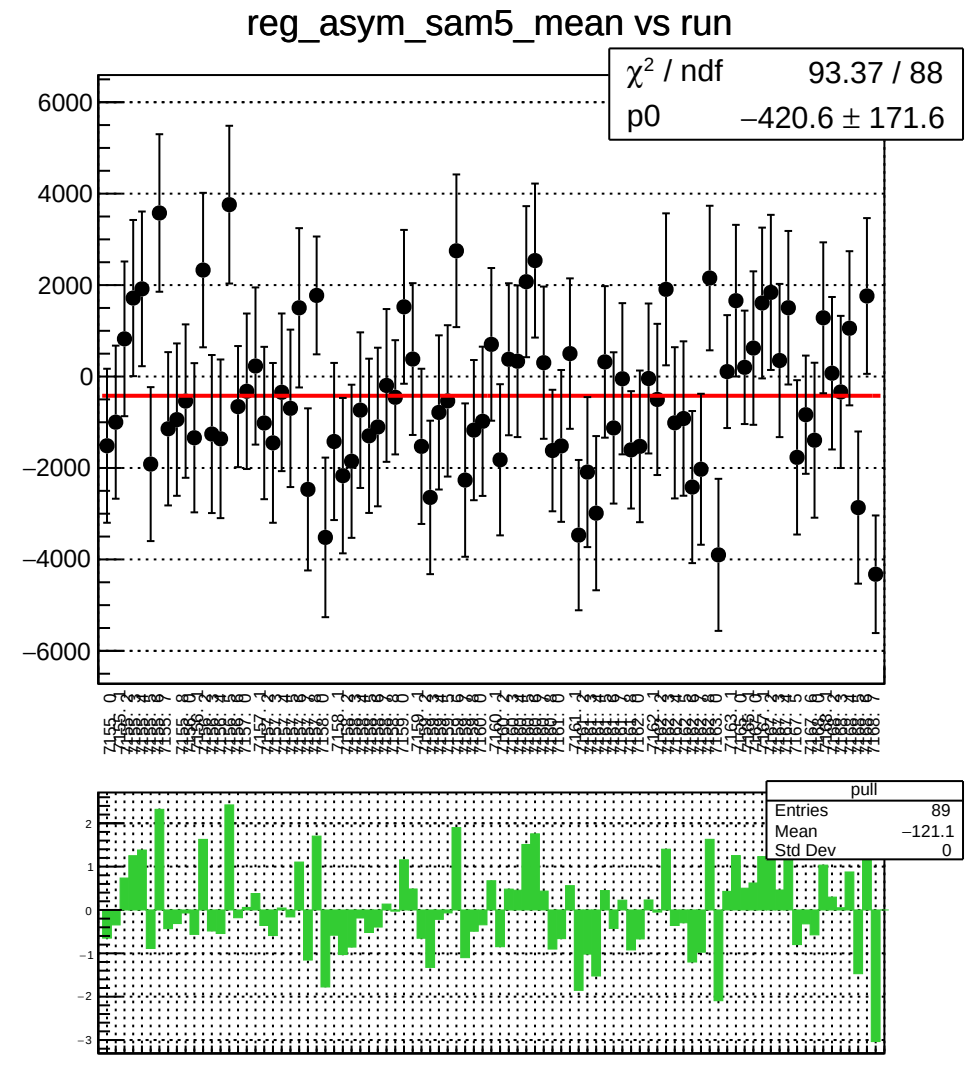

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.109e+04 / 88
p0 119.7 ± 0.09318
350
300
250
200
150
100

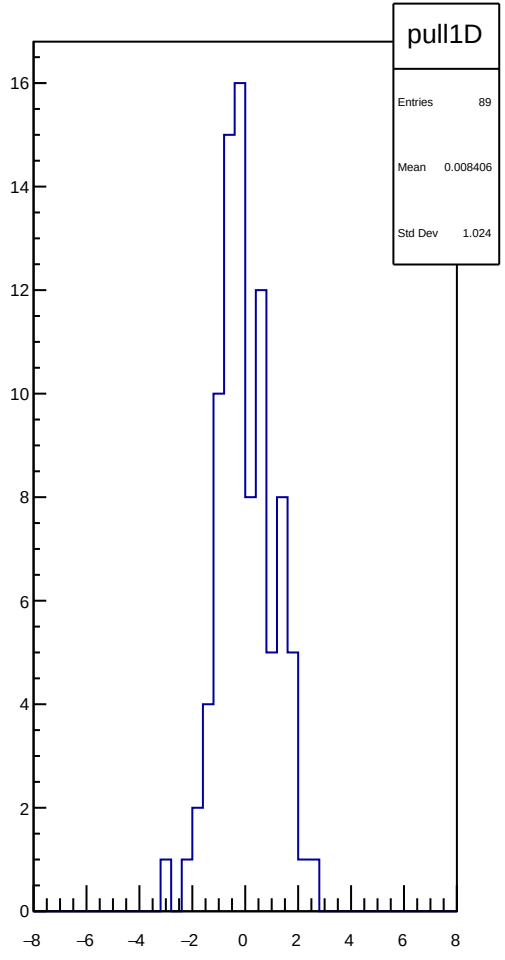

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.44 / 88
p0 −0.1251± 0.1318
pull
Entries 89
Mean −22.43
Std Dev 0
pull1D
Entries 89
Mean 0.03403
Std Dev 0.889

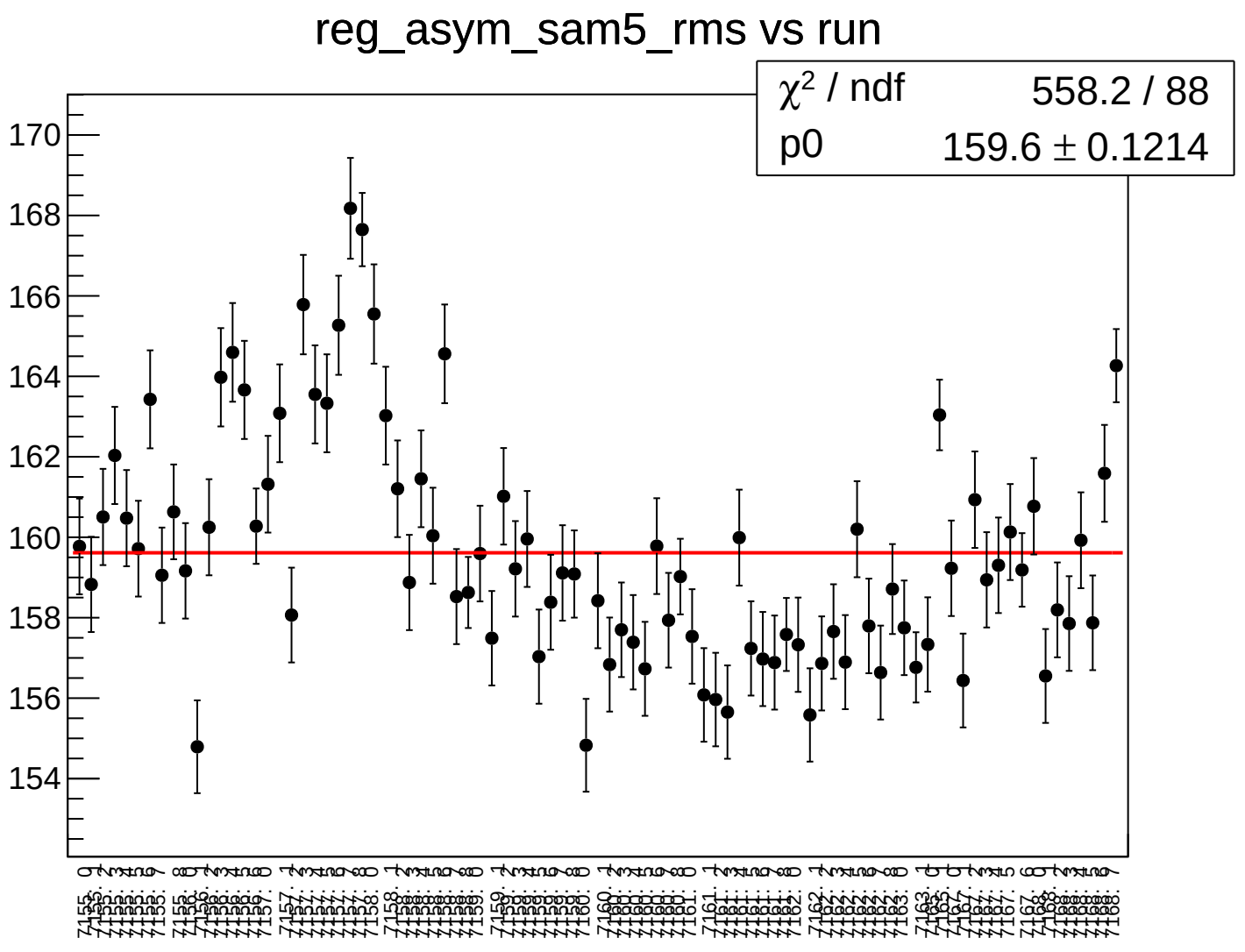

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.109e+04 / 88
p0 119.7 ± 0.09318
350
300
250
200
150
100

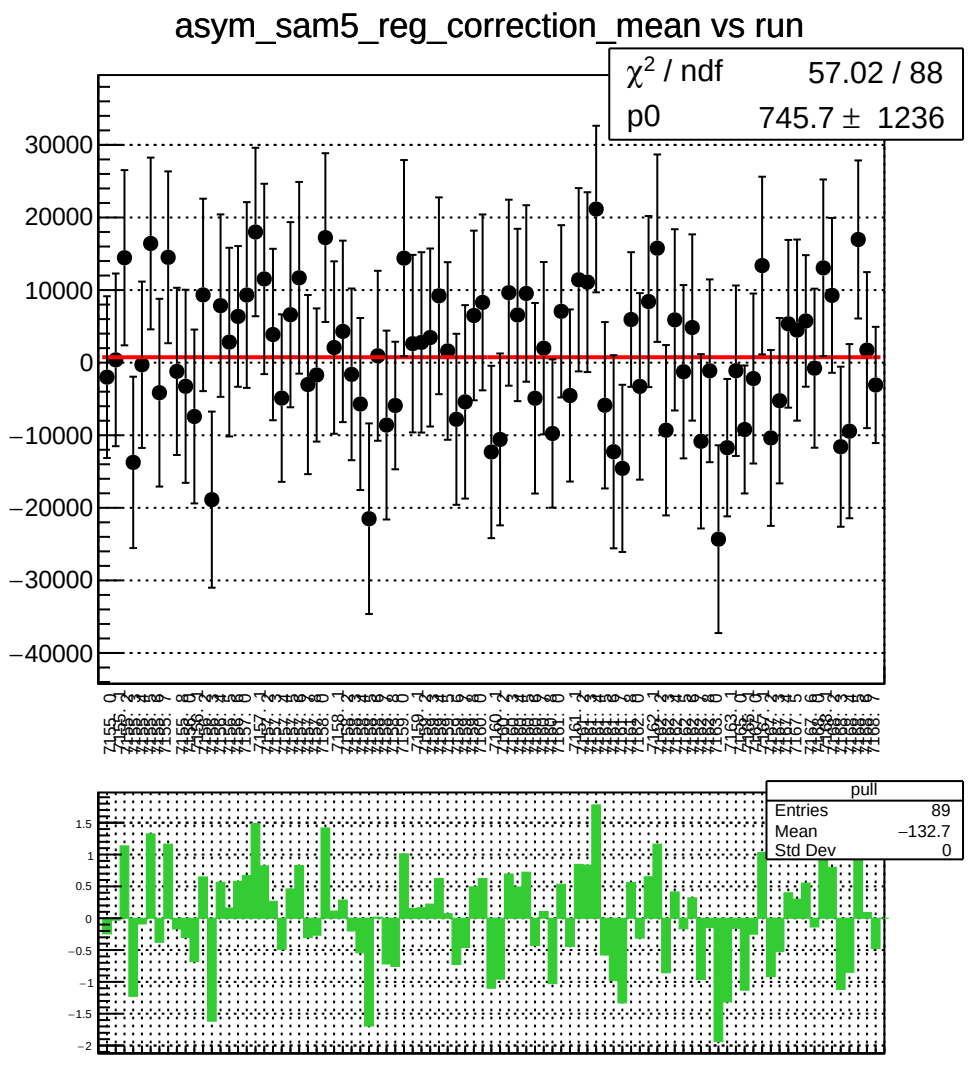

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.35 / 88
p0 2.41e−14 ± 4.517e−14
pull
Entries 89
Mean 33.57
Std Dev 0
pull1D
Entries 89
Mean 0.0311
Std Dev 0.9614

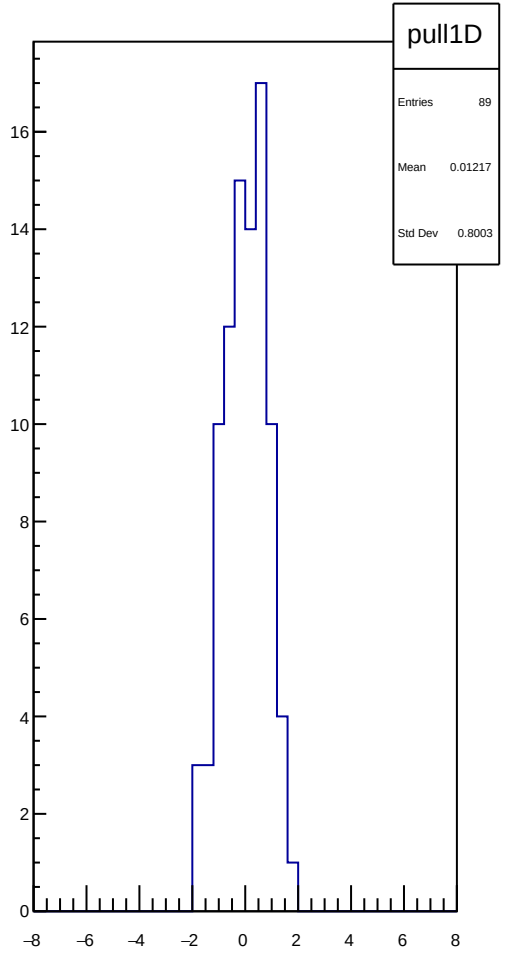

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.862e+05 / 88
p0 3.703e−11 ± 3.194e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

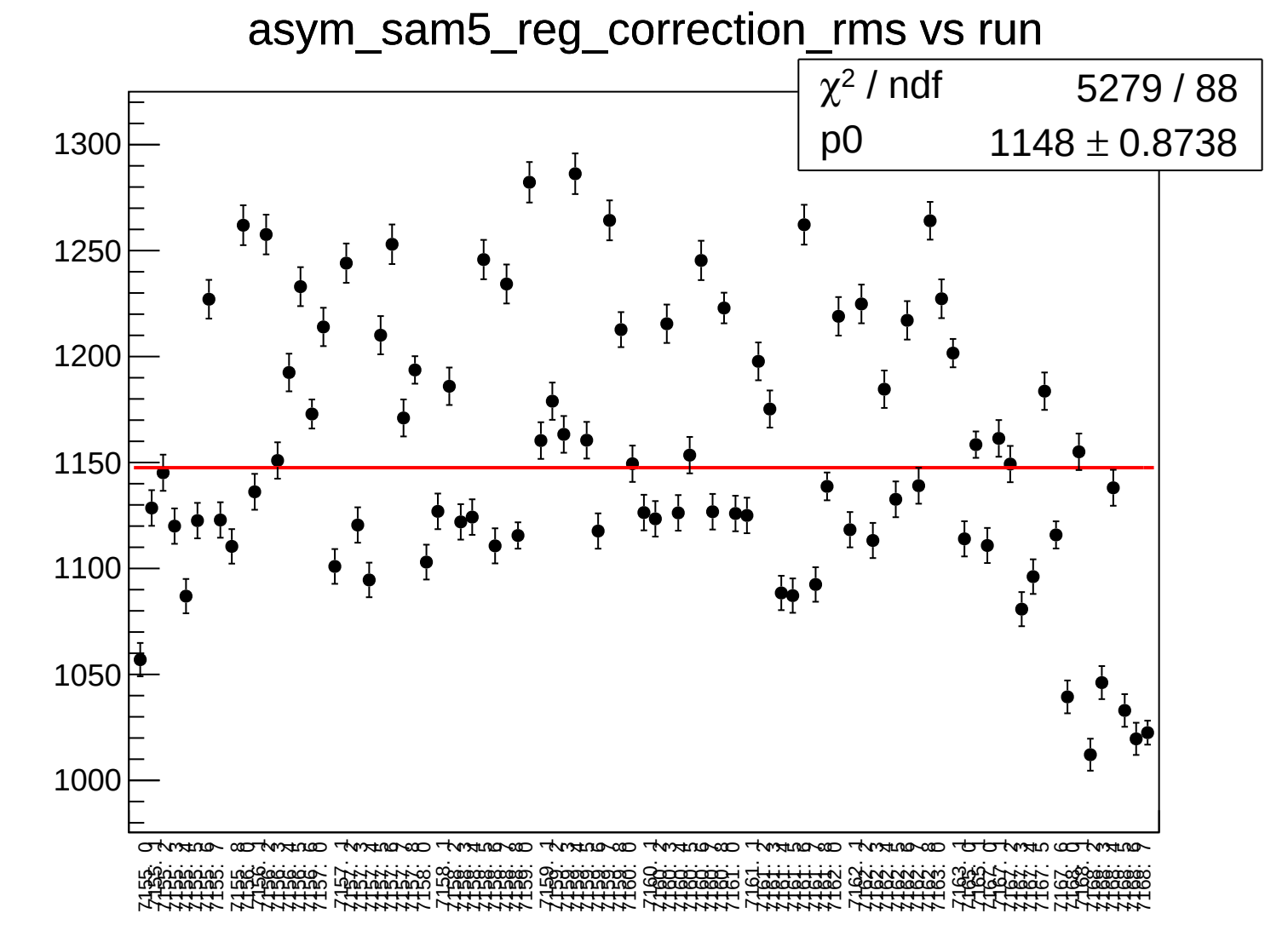

reg_asym_sam5_mean vs run
χ² / ndf 93.37 / 88
p0 −420.6 ± 171.6
pull
Entries 89
Mean −121.1
Std Dev 0

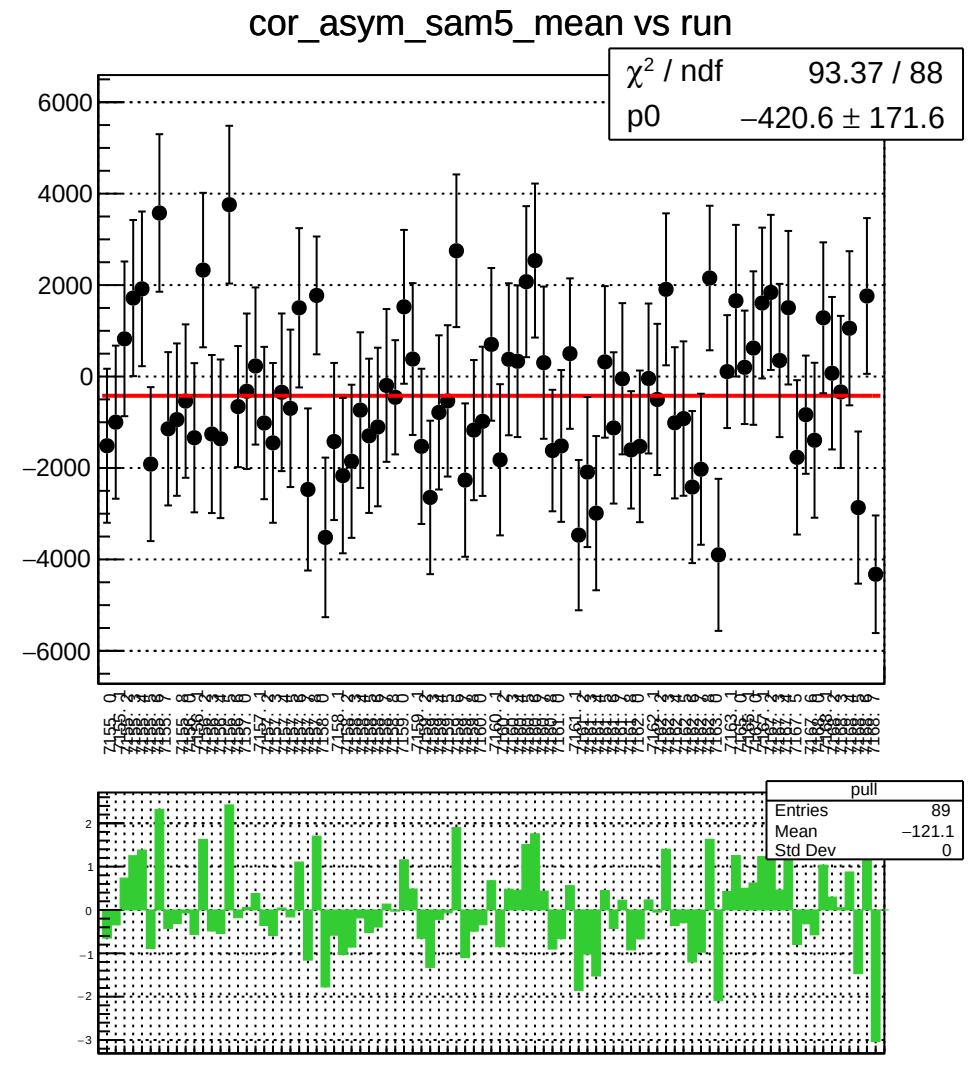

pull1D
Entries 89
Mean 0.008406
Std Dev 1.024

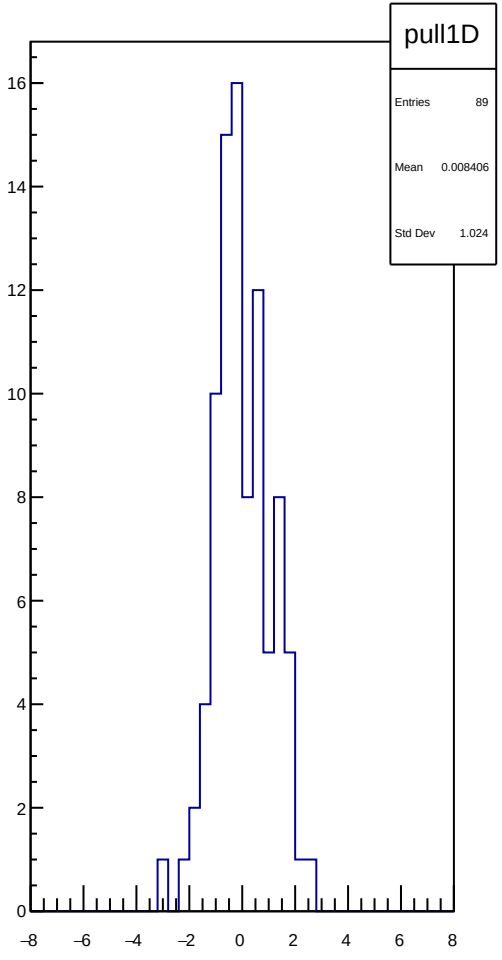

reg_asym_sam5_rms vs run
χ² / ndf 558.2 / 88
p0 159.6 ± 0.1214
170
168
166
164
162
160
158
156
154

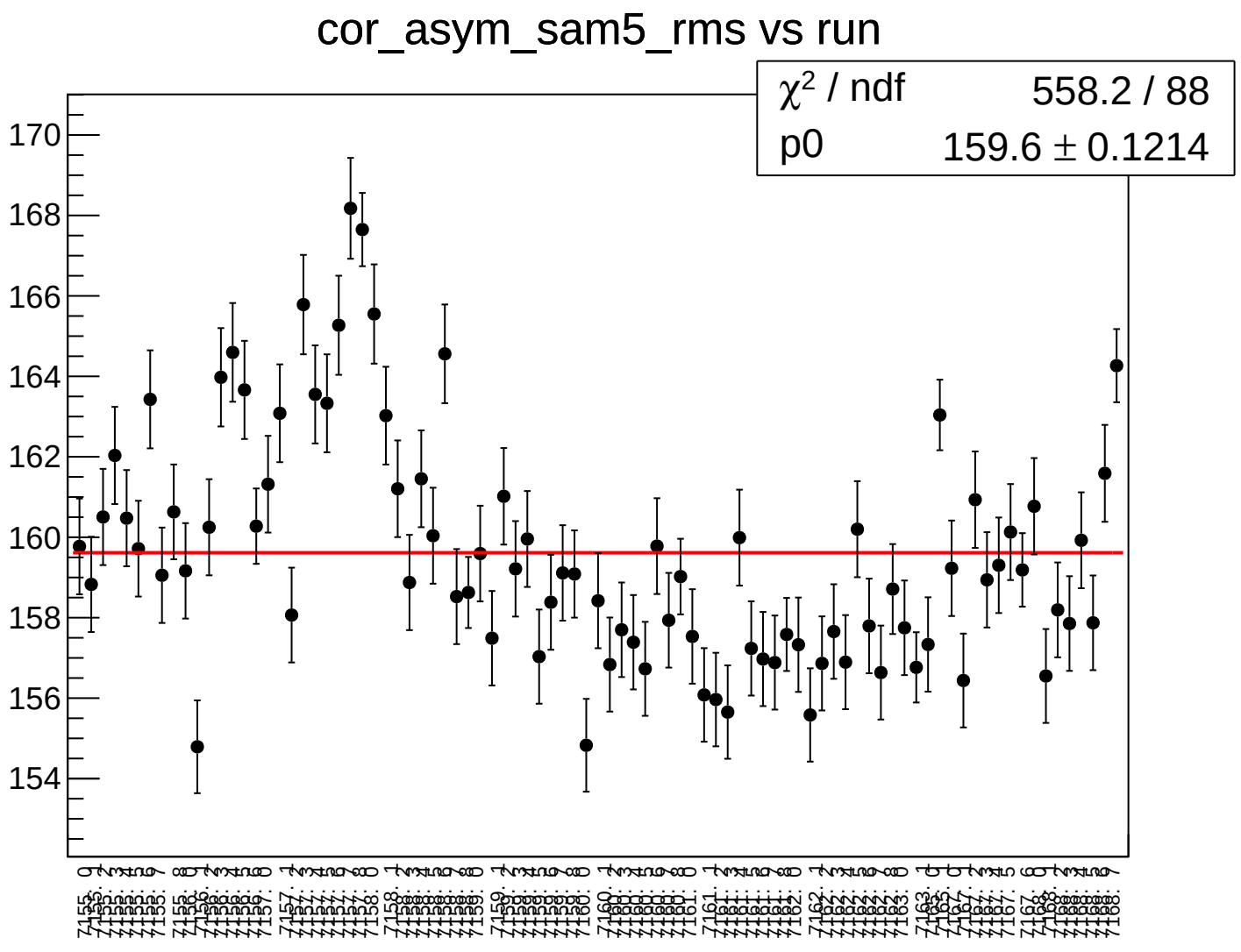

asym_sam5_reg_correction_mean vs run
χ² / ndf 57.02 / 88
p0 745.7 ± 1236
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −132.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

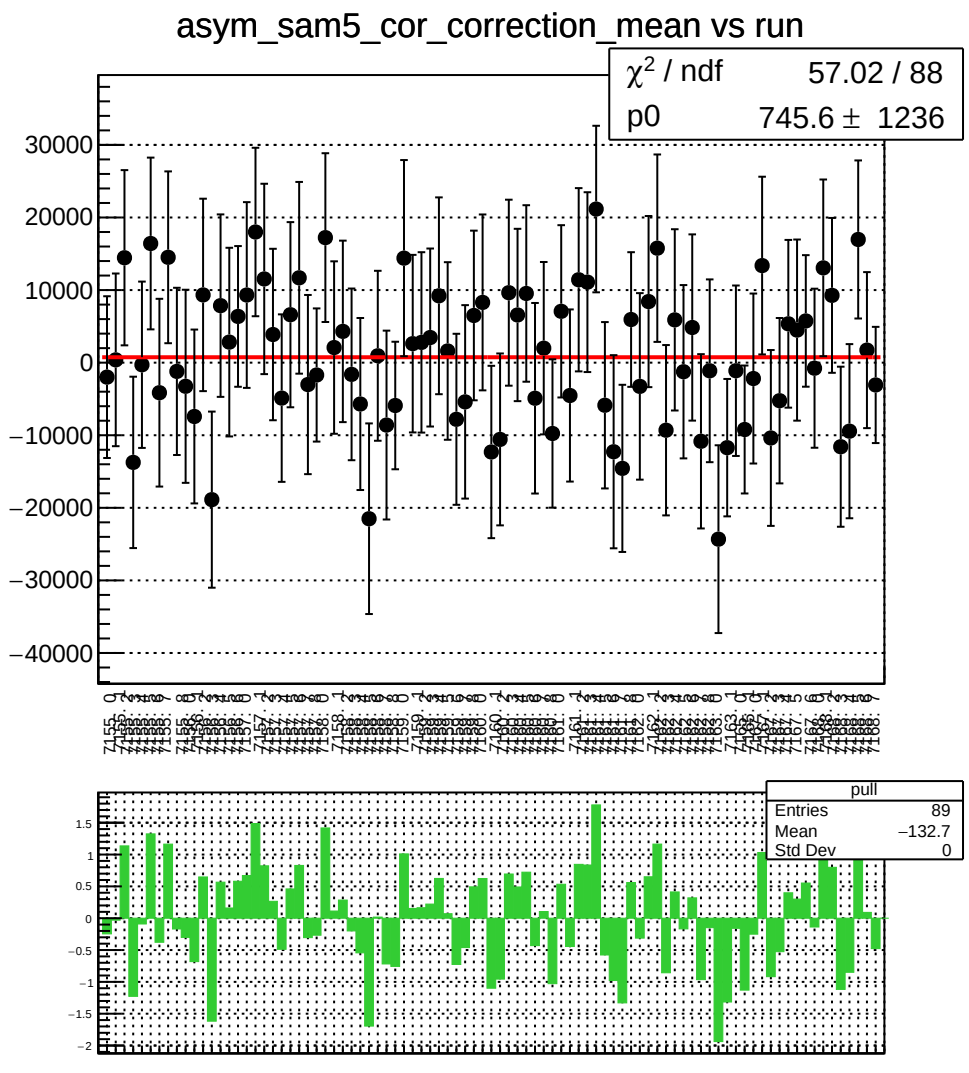

pull1D
Entries 89
Mean 0.01217
Std Dev 0.8003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

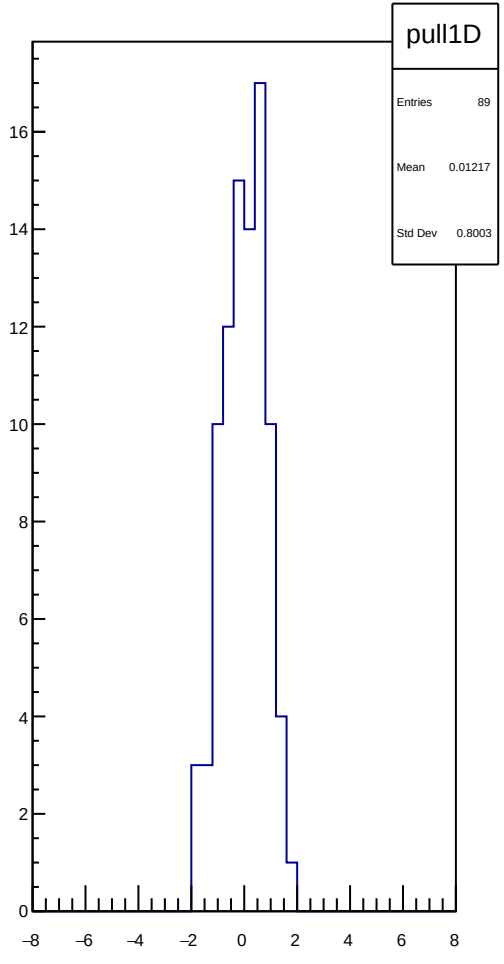

asym_sam5_reg_correction_rms vs run
χ² / ndf 5279 / 88
p0 1148 ± 0.8738
1300
1250
1200
1150
1100
1050
1000

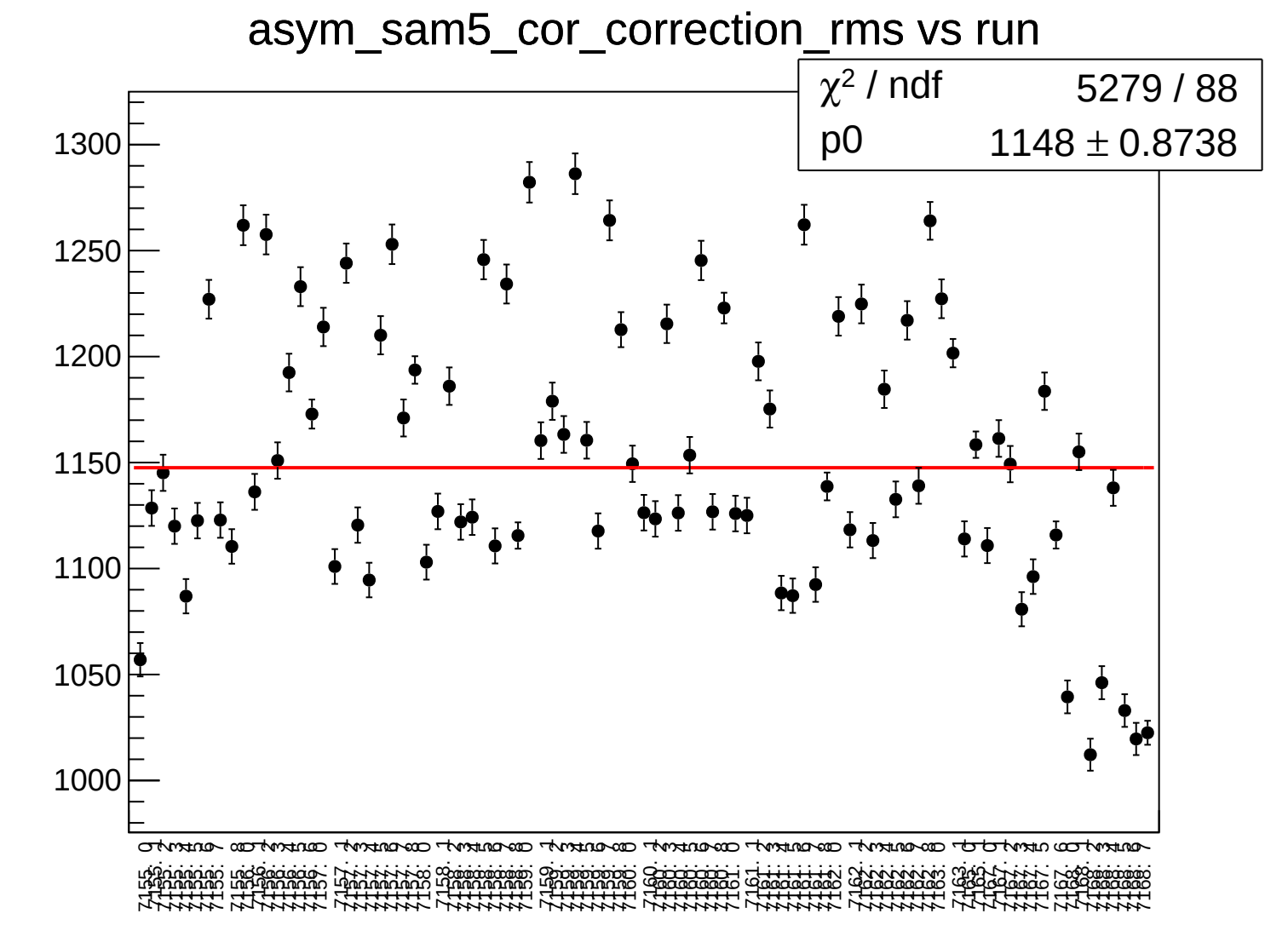

cor_asym_sam5_mean vs run
χ² / ndf 93.37 / 88
p0 −420.6 ± 171.6
pull
Entries 89
Mean −121.1
Std Dev 0

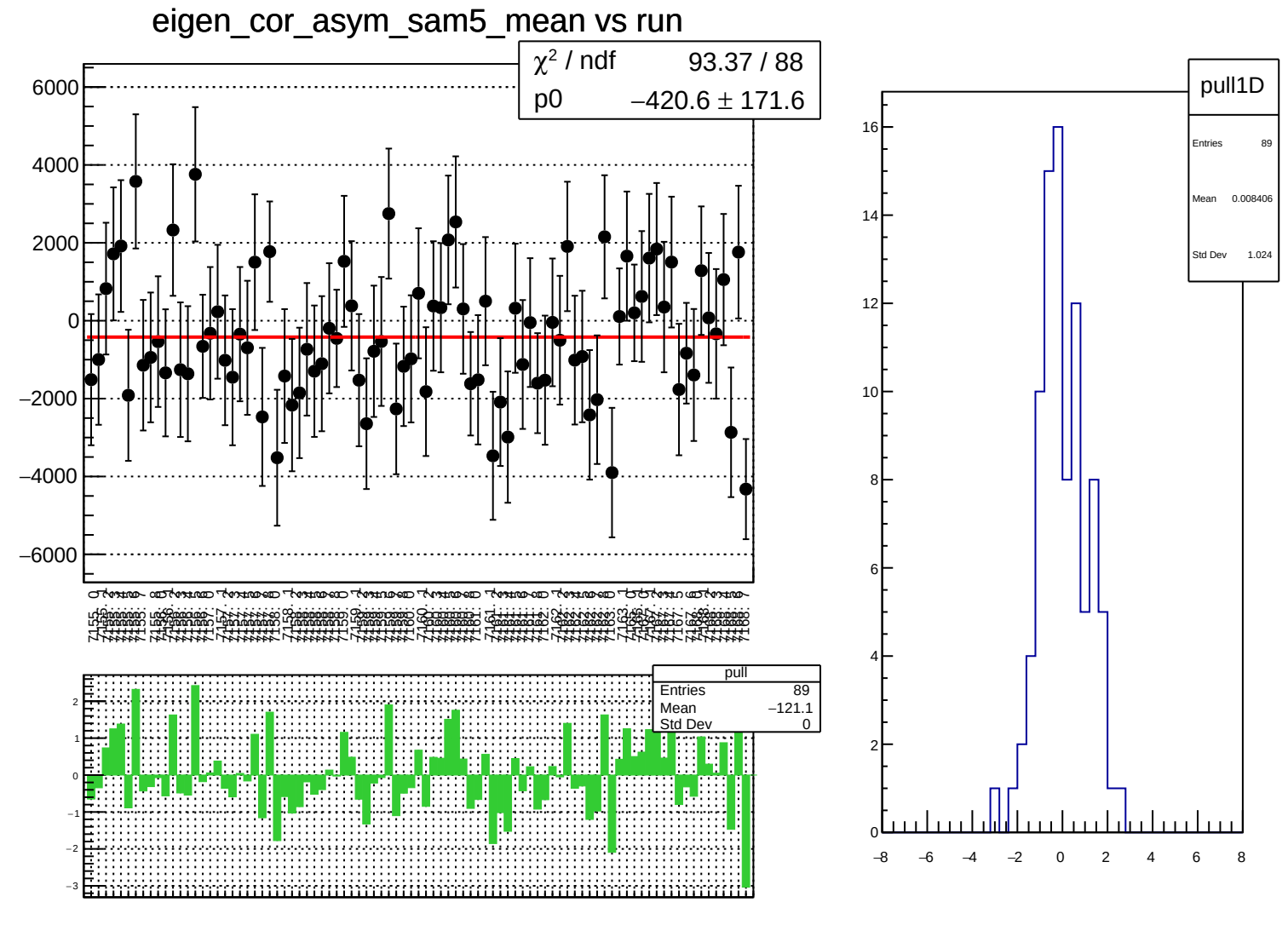

pull1D
Entries 89
Mean 0.008406
Std Dev 1.024

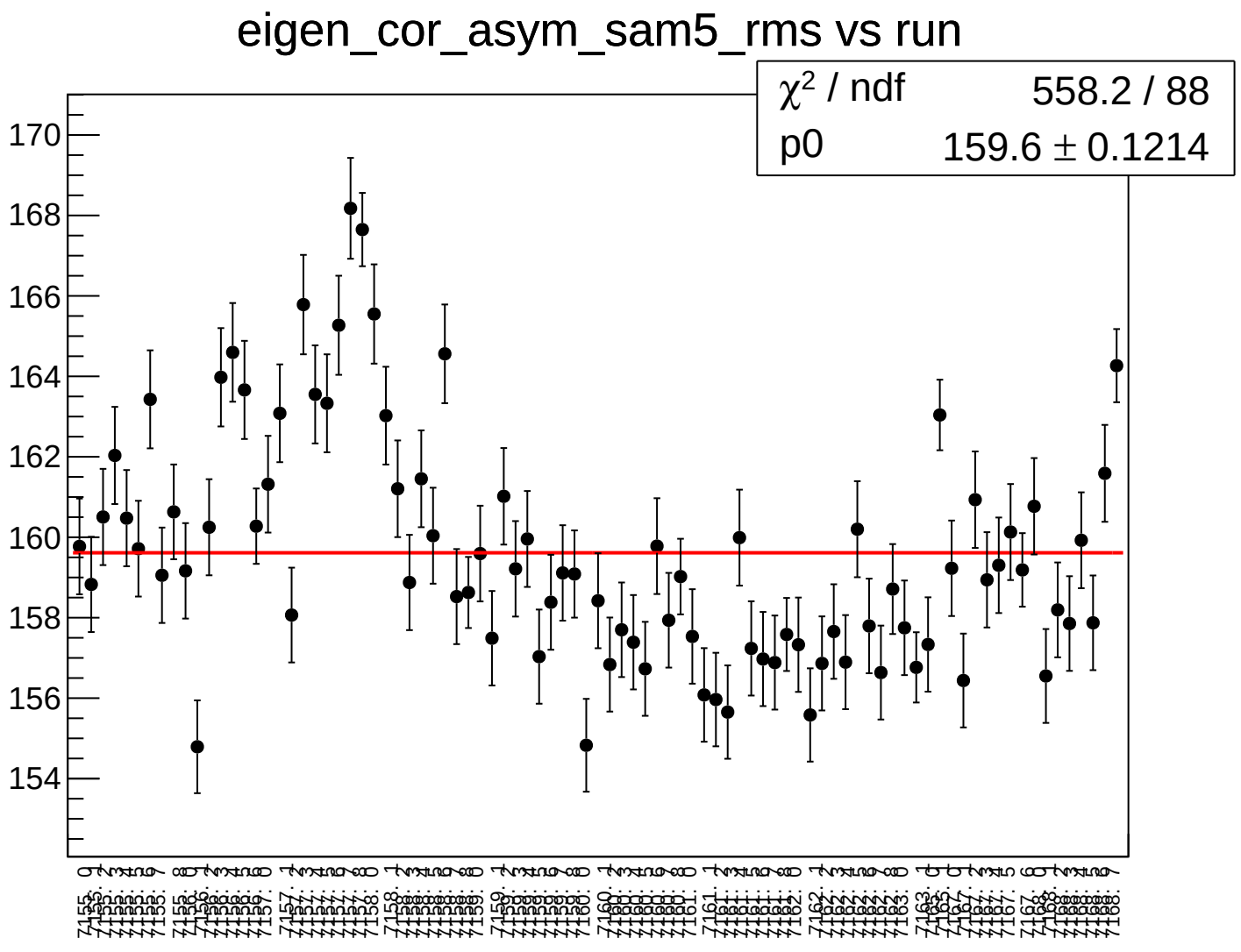

cor_asym_sam5_rms vs run
χ² / ndf 558.2 / 88
p0 159.6 ± 0.1214
170
168
166
164
162
160
158
156
154

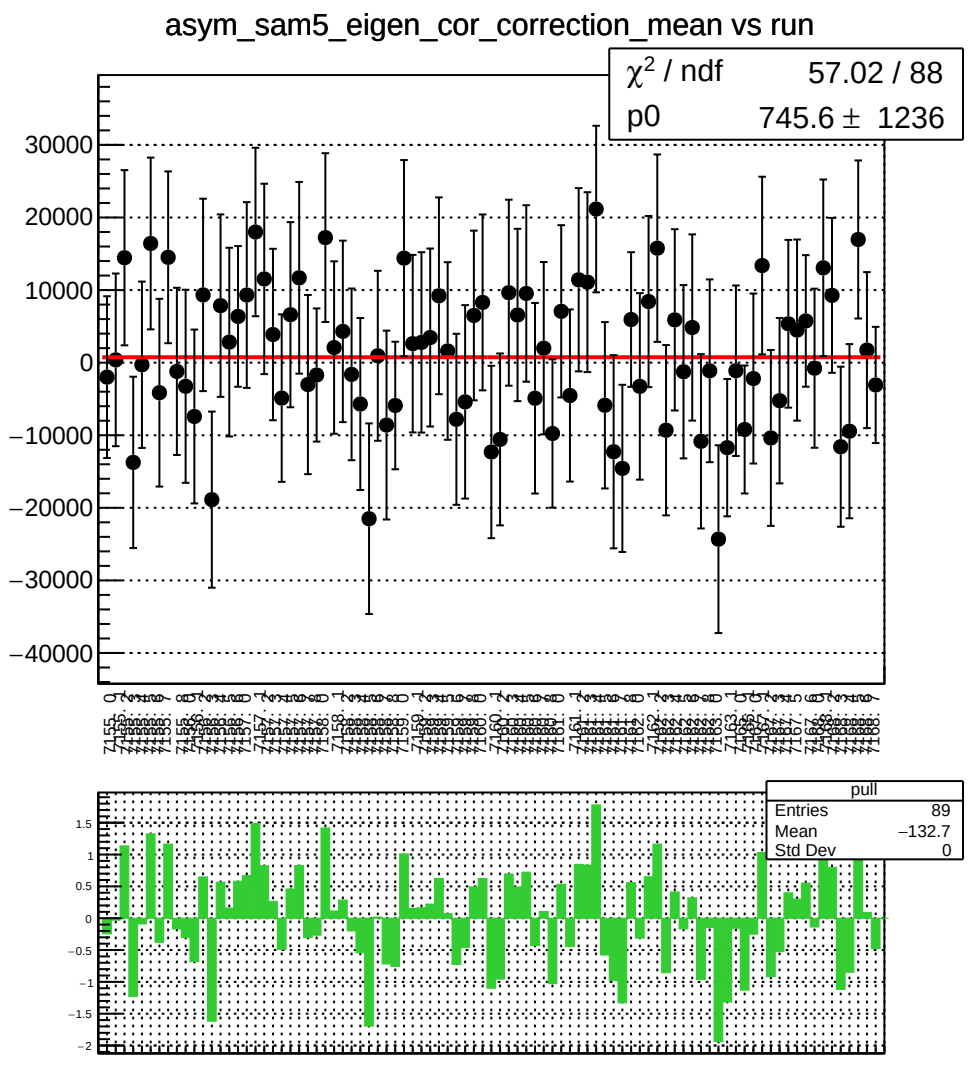

asym_sam5_cor_correction_mean vs run
χ² / ndf 57.02 / 88
p0 745.6 ± 1236
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −132.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

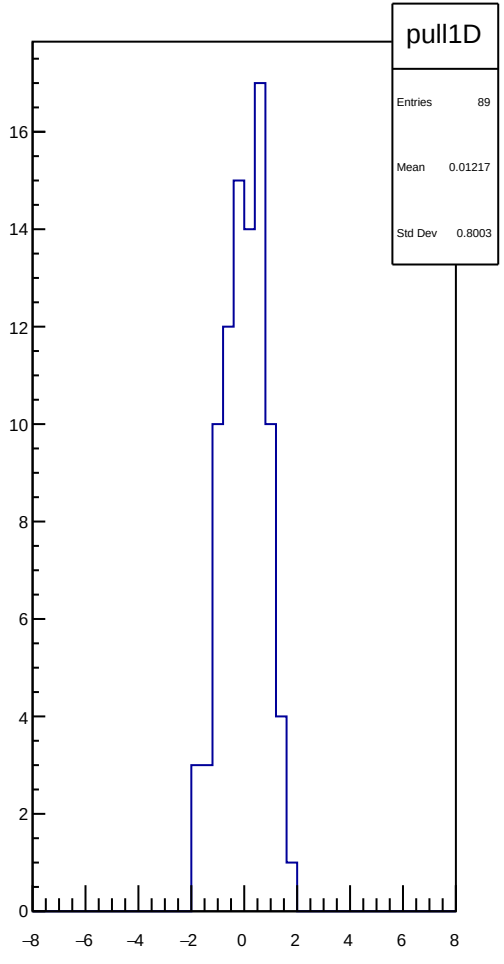

pull1D
Entries 89
Mean 0.01217
Std Dev 0.8003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

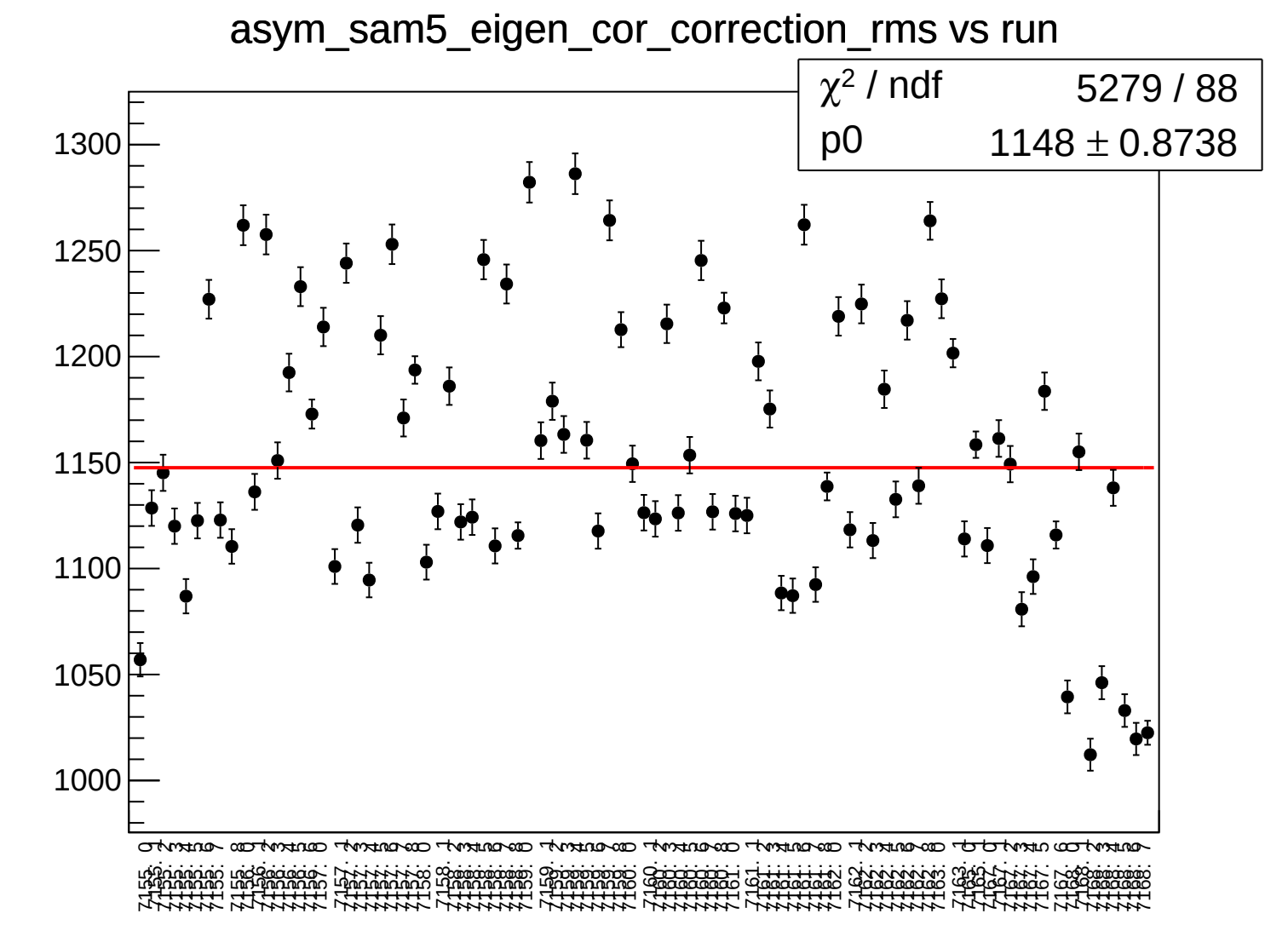

asym_sam5_cor_correction_rms vs run
χ² / ndf 5279 / 88
p0 1148 ± 0.8738
1300
1250
1200
1150
1100
1050
1000

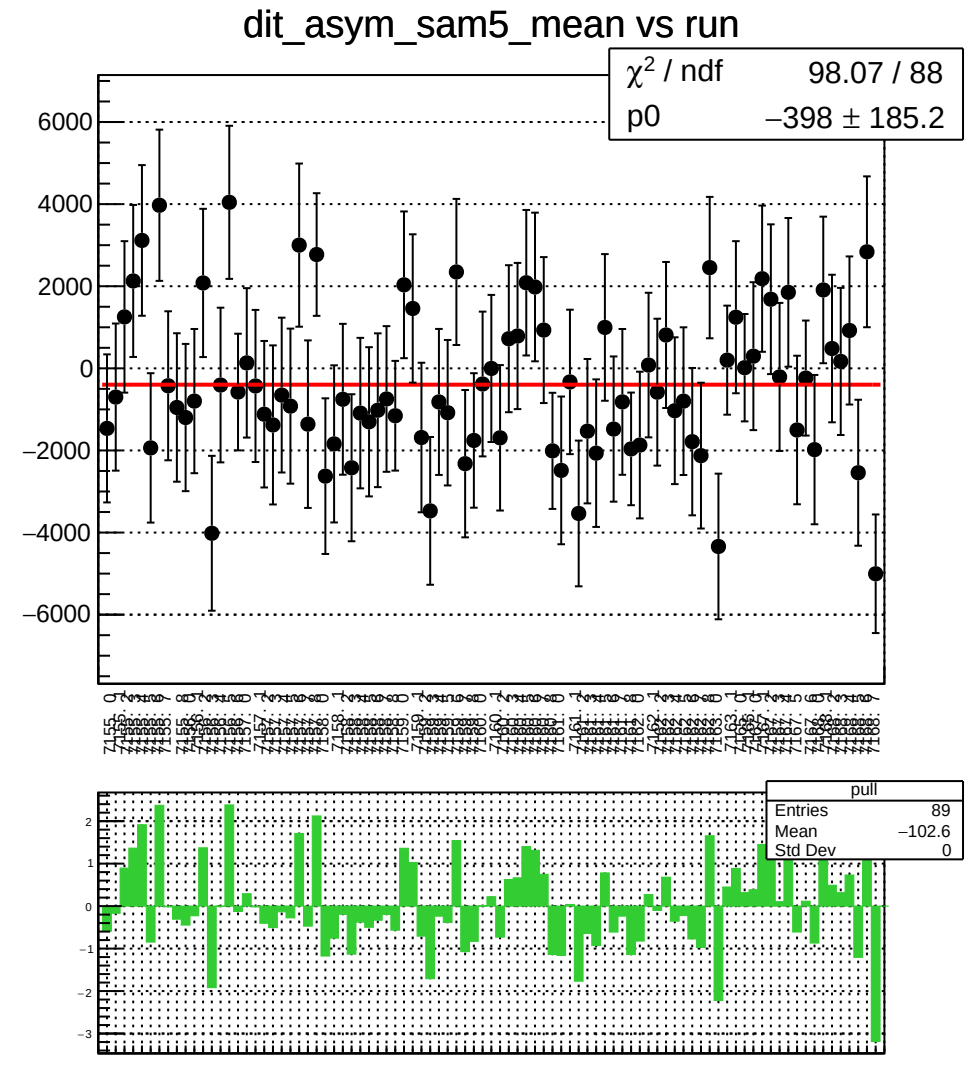

eigen_cor_asym_sam5_mean vs run
χ² / ndf 93.37 / 88
p0 −420.6 ± 171.6
pull
Entries 89
Mean −121.1
Std Dev 0
pull1D
Entries 89
Mean 0.008406
Std Dev 1.024

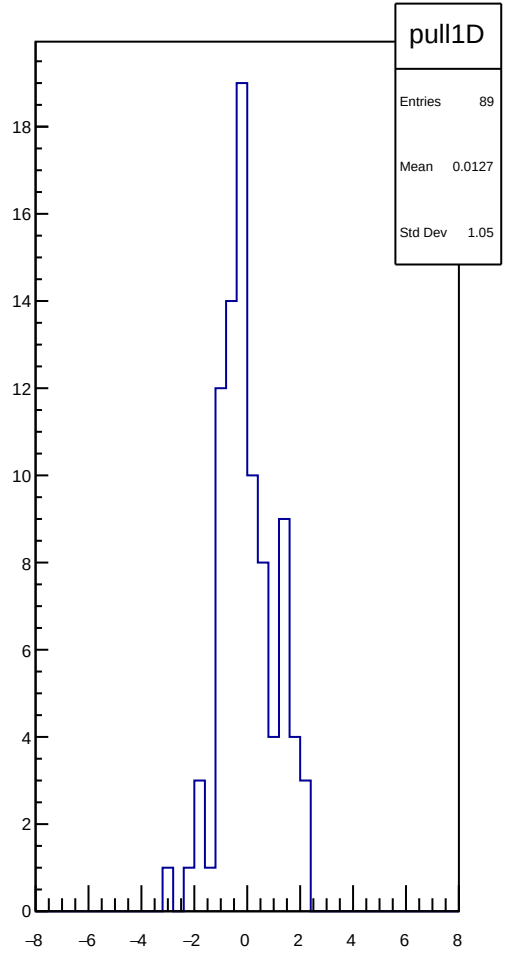

eigen_cor_asym_sam5_rms vs run
χ² / ndf 558.2 / 88
p0 159.6 ± 0.1214
170
168
166
164
162
160
158
156
154

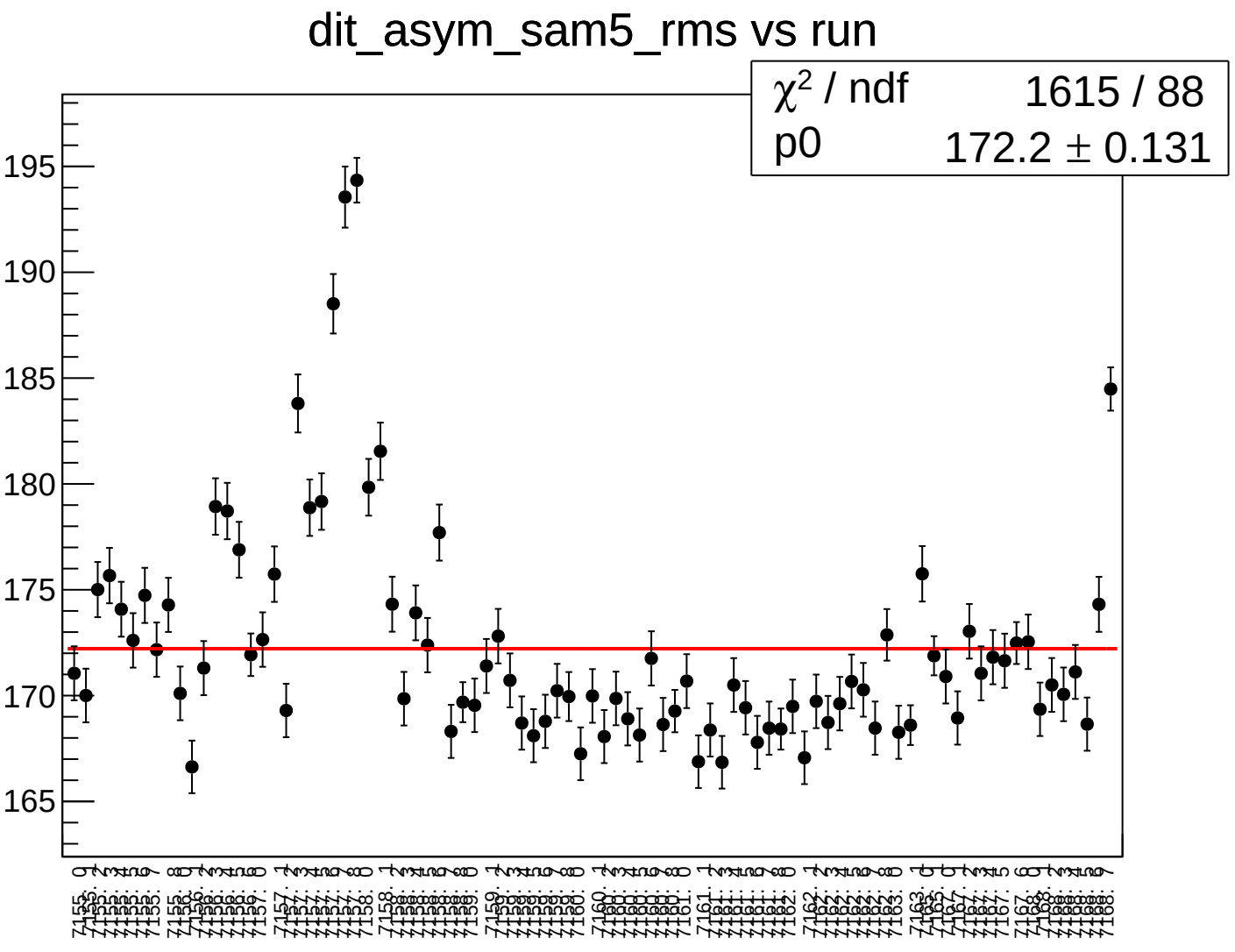

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 57.02 / 88
p0 745.6 ± 1236
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −132.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

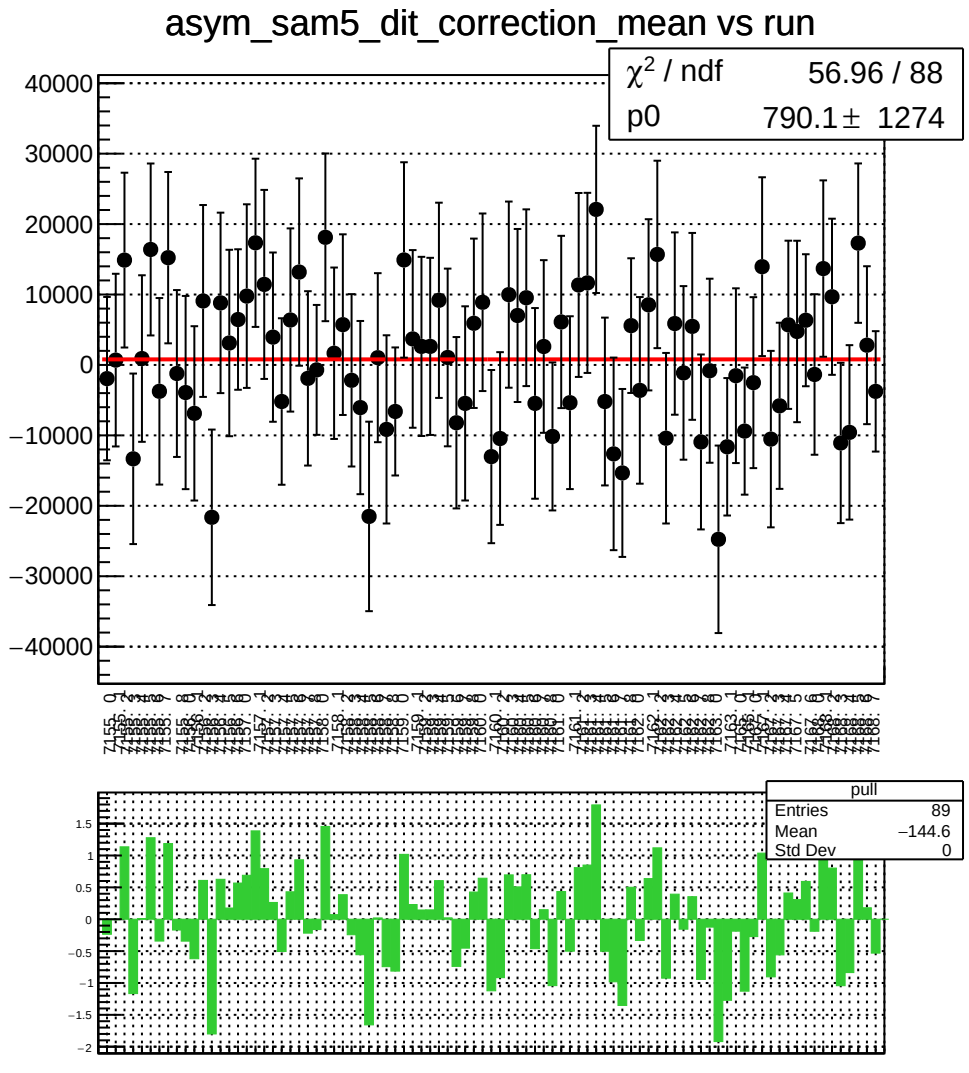

pull1D
Entries 89
Mean 0.01217
Std Dev 0.8003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

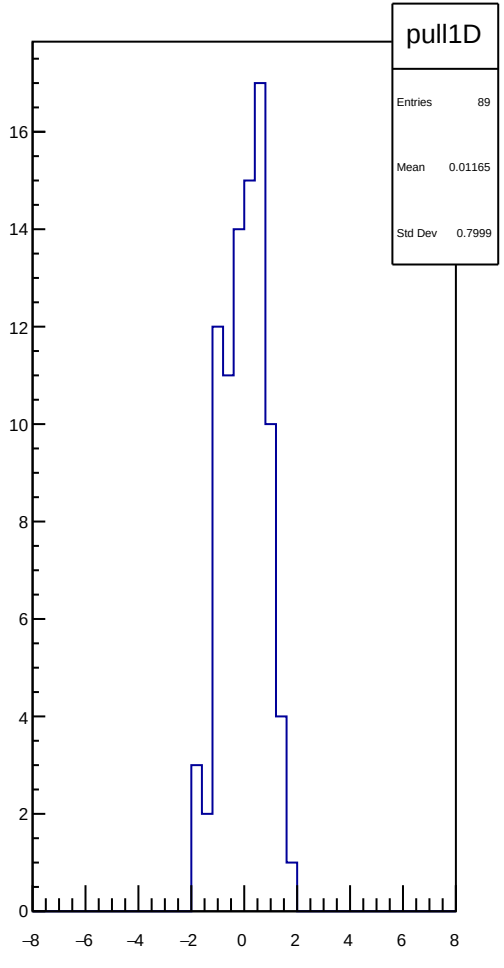

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 5279 / 88
p0 1148 ± 0.8738
1300
1250
1200
1150
1100
1050
1000

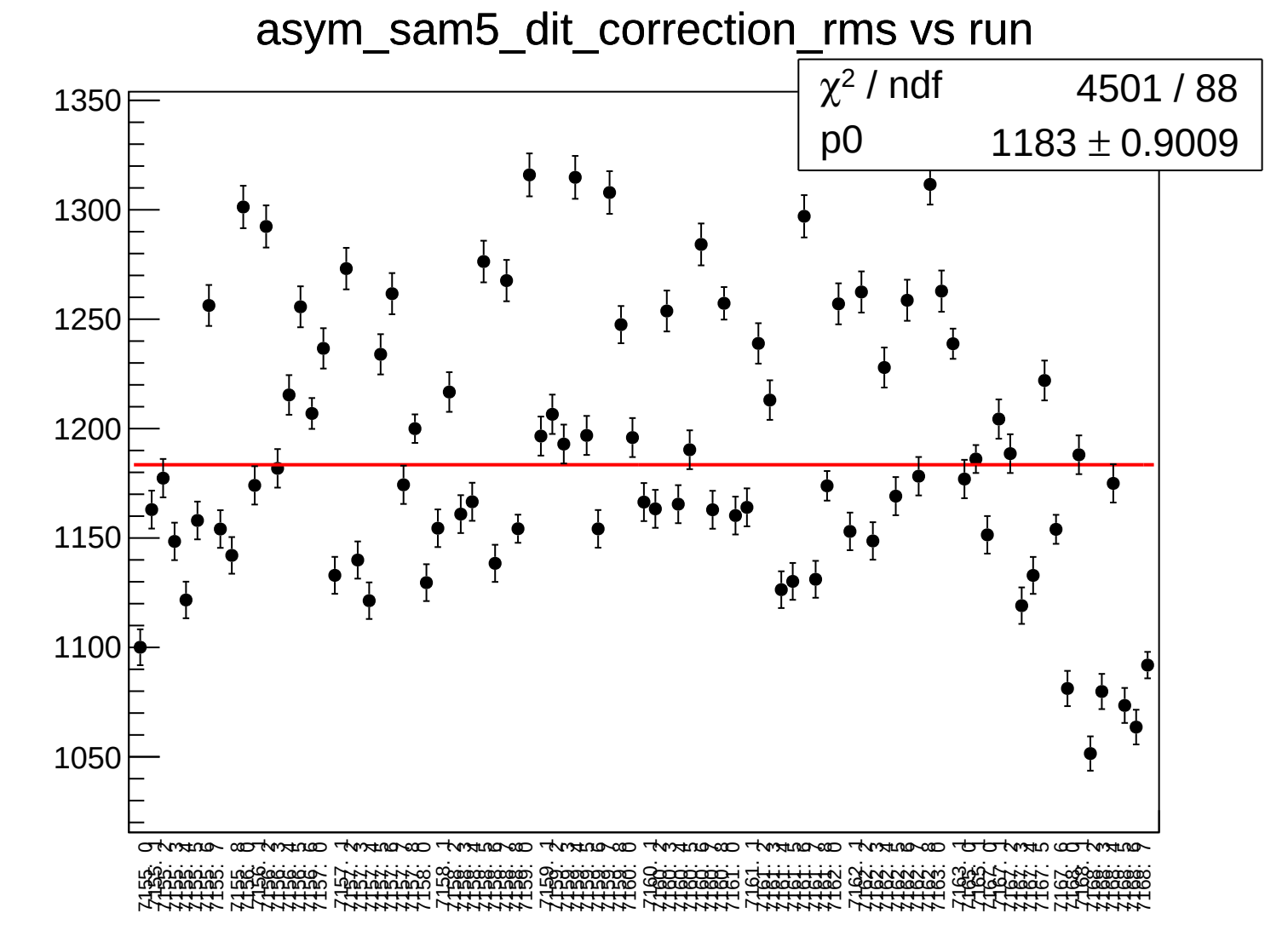

dit_asym_sam5_mean vs run
χ^2 / ndf 98.07 / 88
p0 −398 ± 185.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −102.6
Std Dev 0
2
1
0
−1
−2
−3

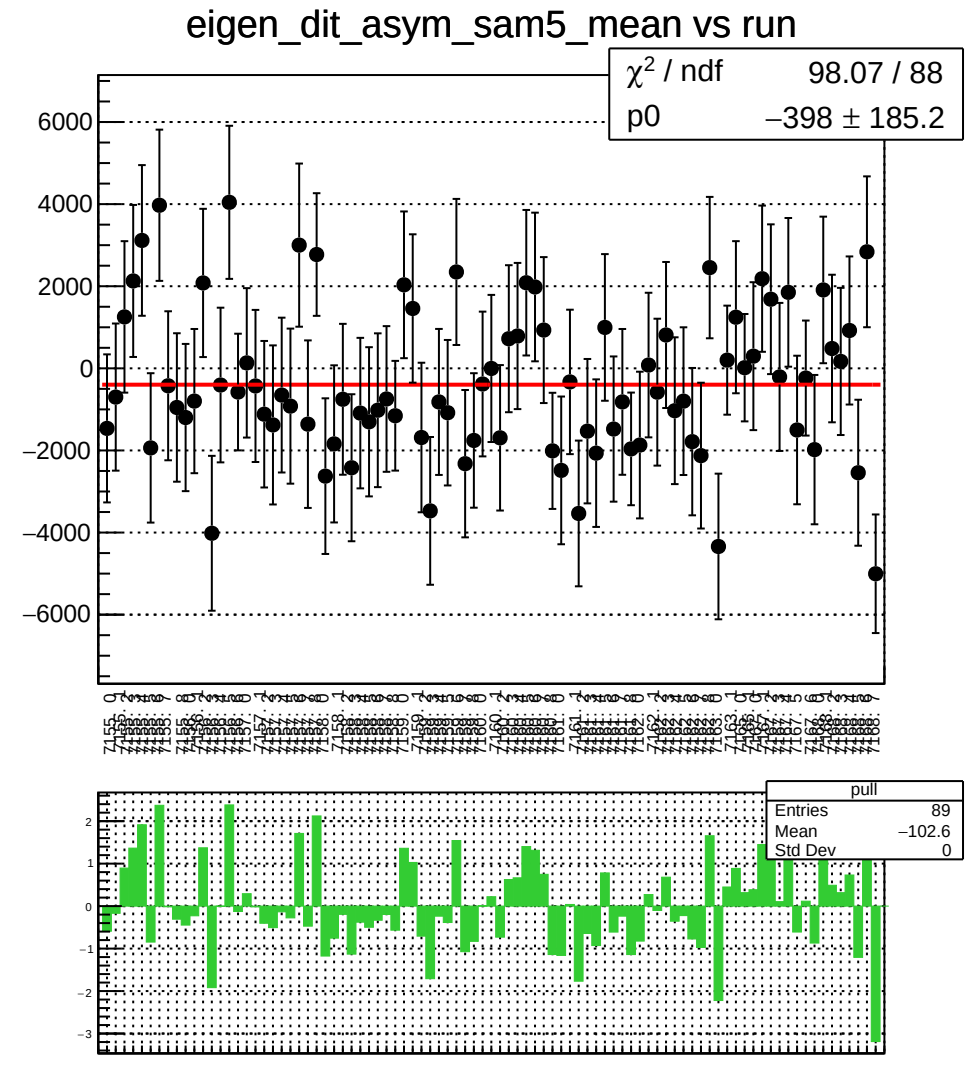

pull1D
Entries 89
Mean 0.0127
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

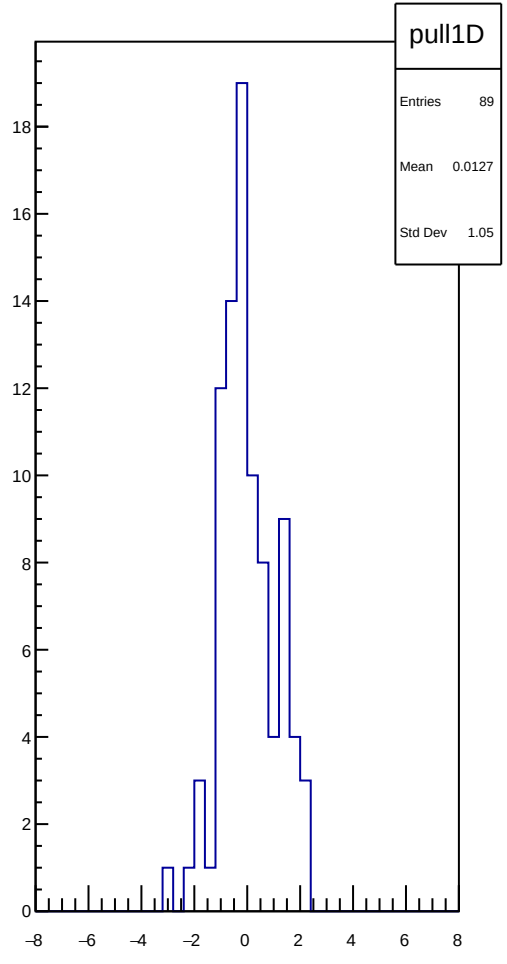

dit_asym_sam5_rms vs run
χ^2 / ndf 1615 / 88
p0 172.2 ± 0.131
195
190
185
180
175
170
165

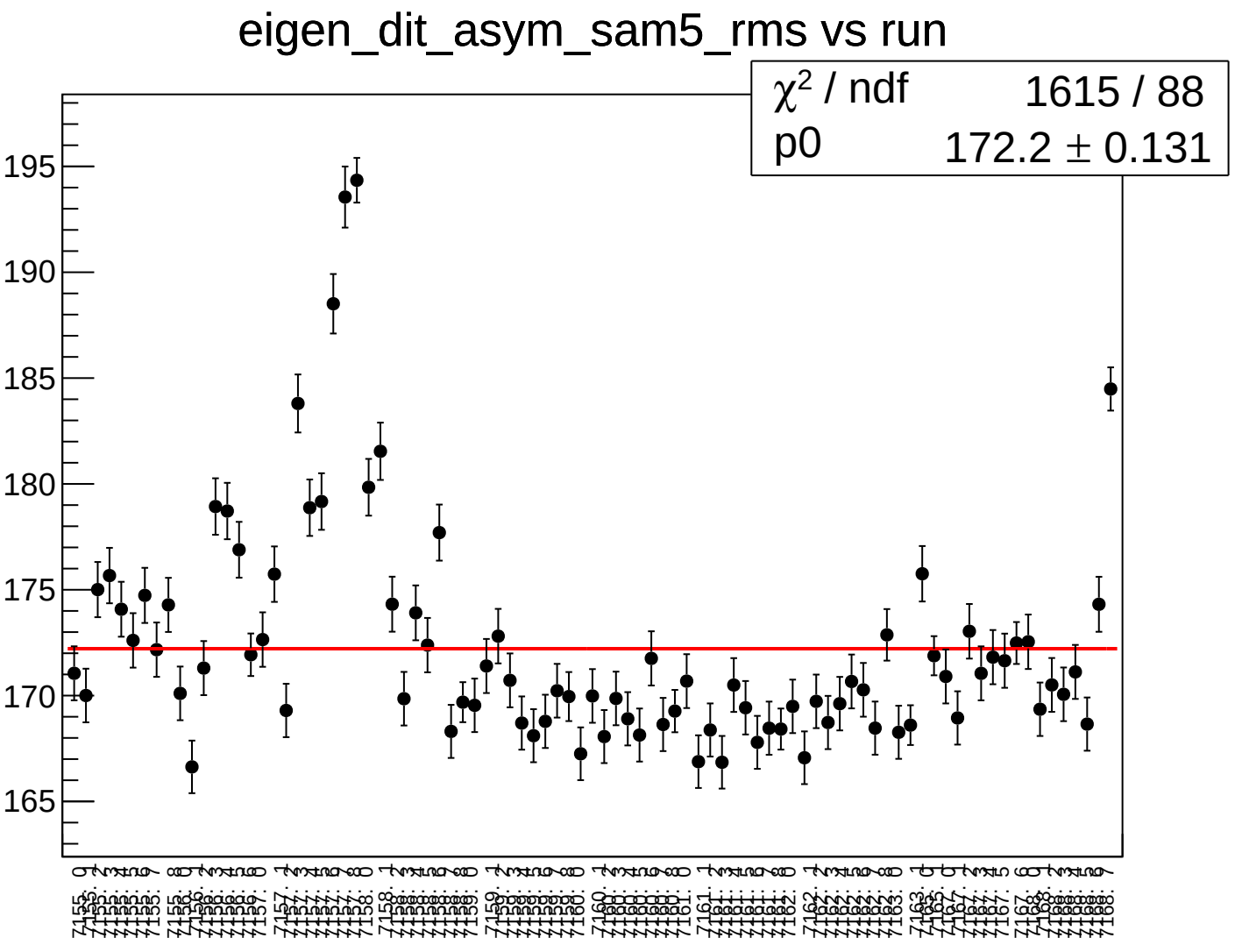

asym_sam5_dit_correction_mean vs run
χ² / ndf 56.96 / 88
p0 790.1 ± 1274
pull
Entries 89
Mean −144.6
Std Dev 0

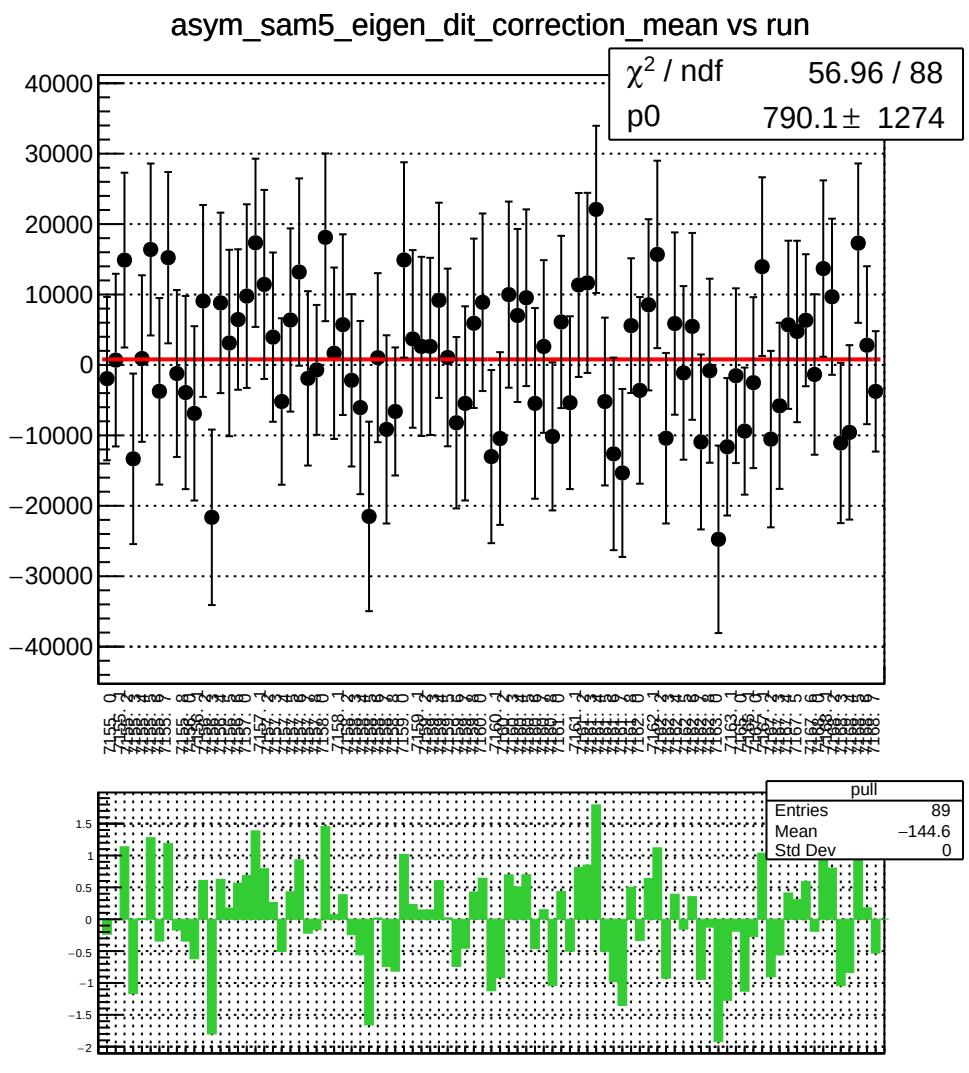

pull1D
Entries 89
Mean 0.01165
Std Dev 0.7999

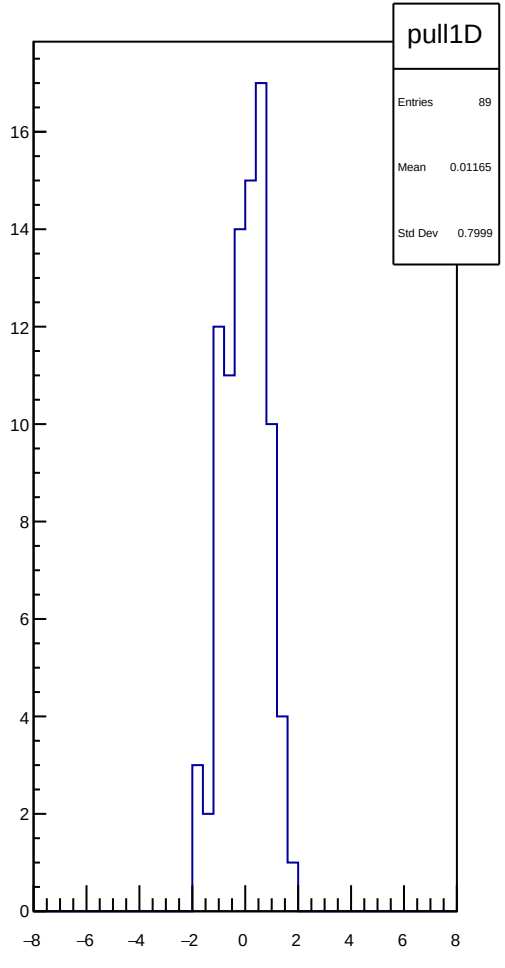

asym_sam5_dit_correction_rms vs run
χ² / ndf 4501 / 88
p0 1183 ± 0.9009
1350
1300
1250
1200
1150
1100
1050

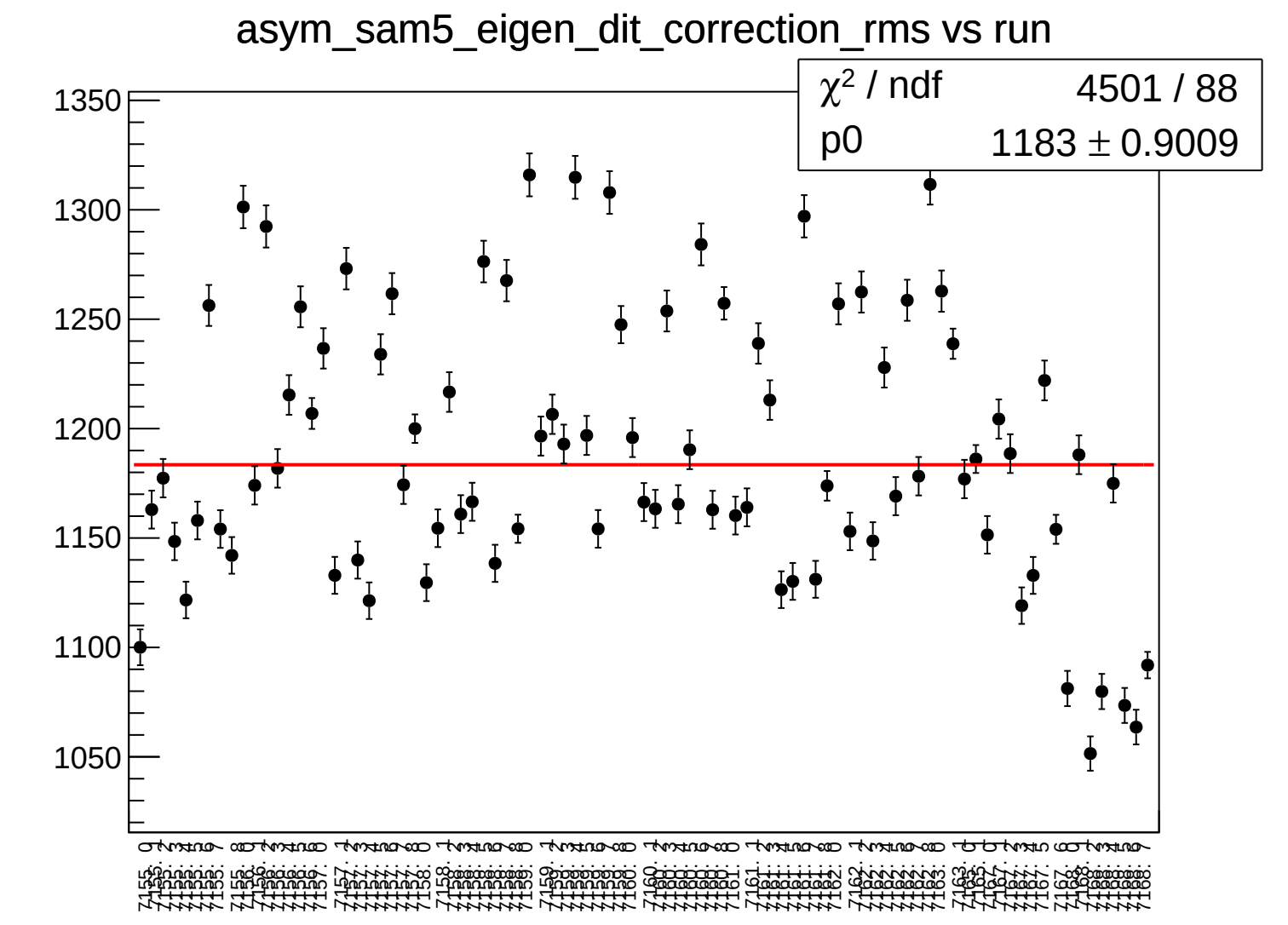

eigen_dit_asym_sam5_mean vs run
χ² / ndf 98.07 / 88
p0 −398 ± 185.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −102.6
Std Dev 0
2
1
0
−1
−2
−3

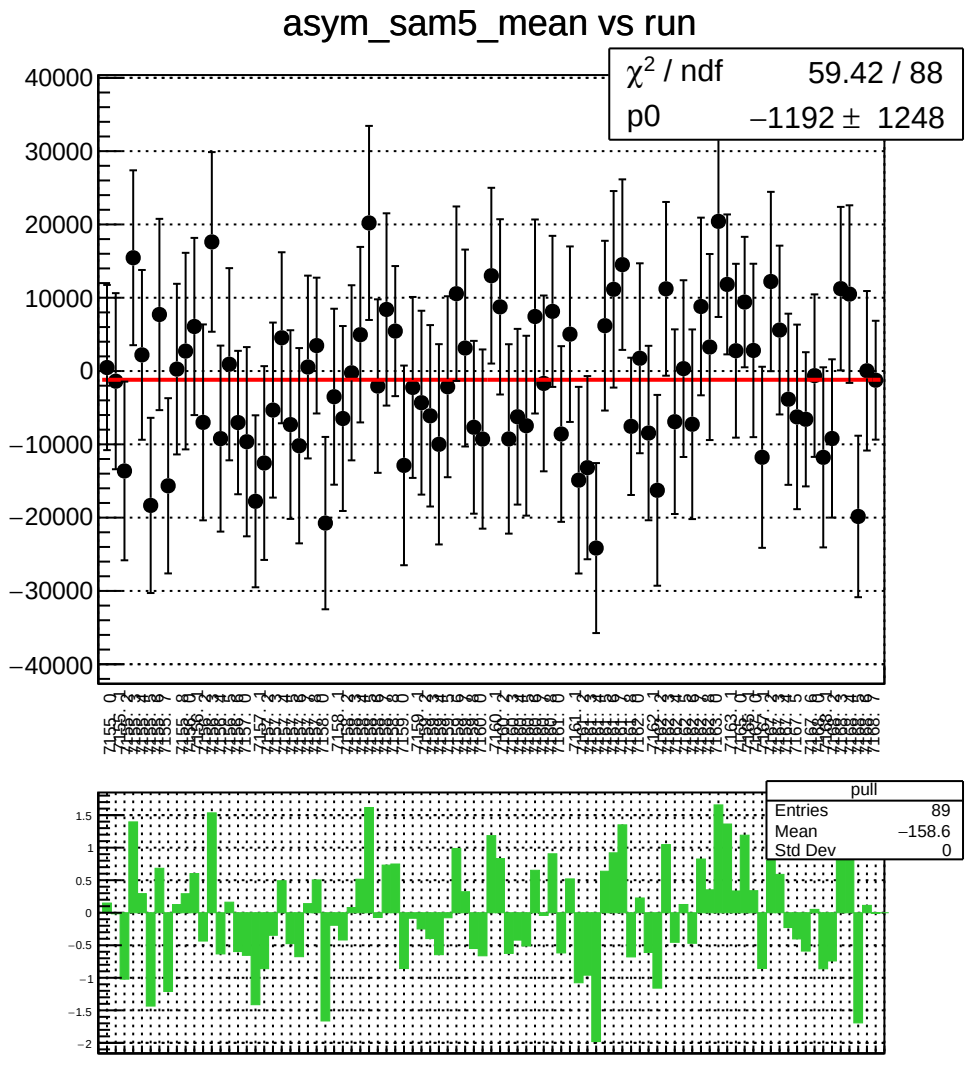

pull1D
Entries 89
Mean 0.0127
Std Dev 1.05
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

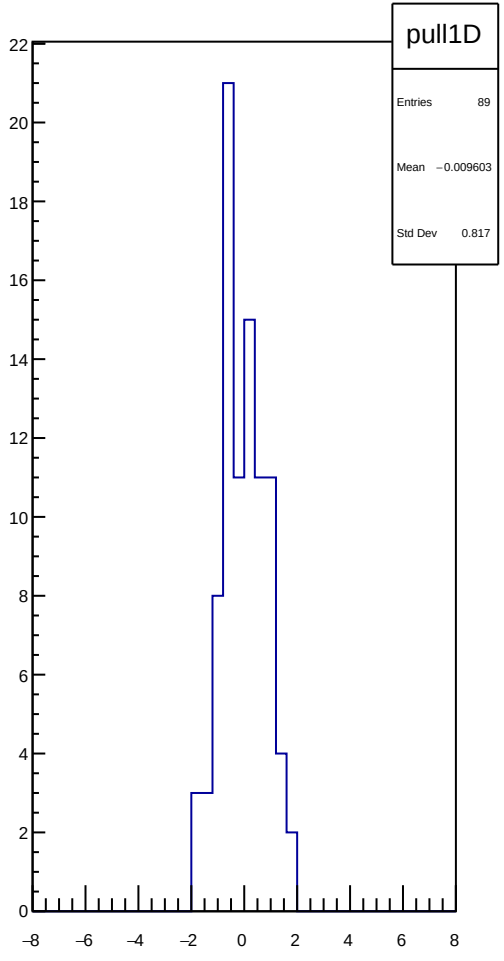

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1615 / 88
p0 172.2 ± 0.131
195
190
185
180
175
170
165

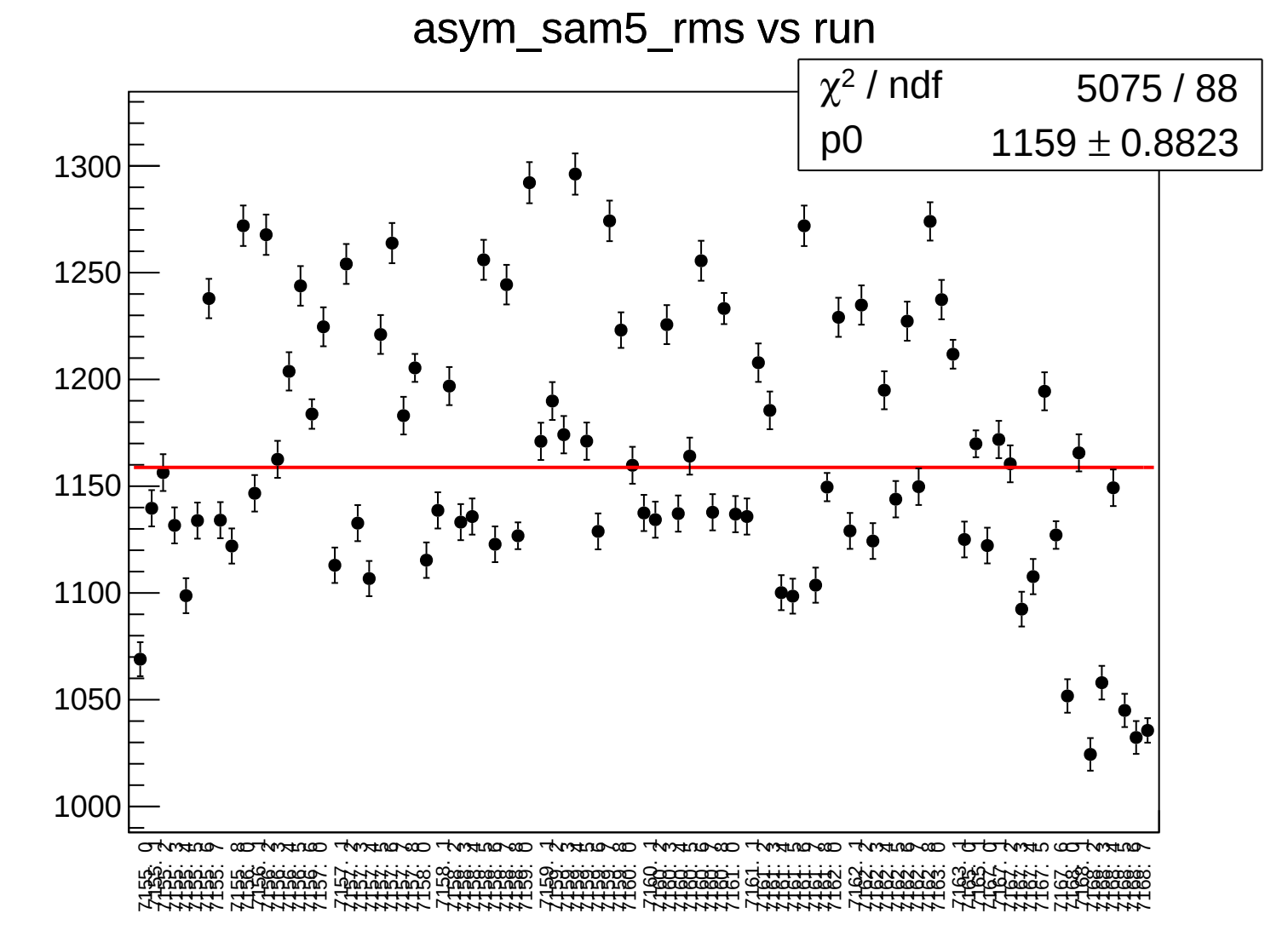

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 56.96 / 88
p0 790.1 ± 1274
pull
Entries 89
Mean −144.6
Std Dev 0

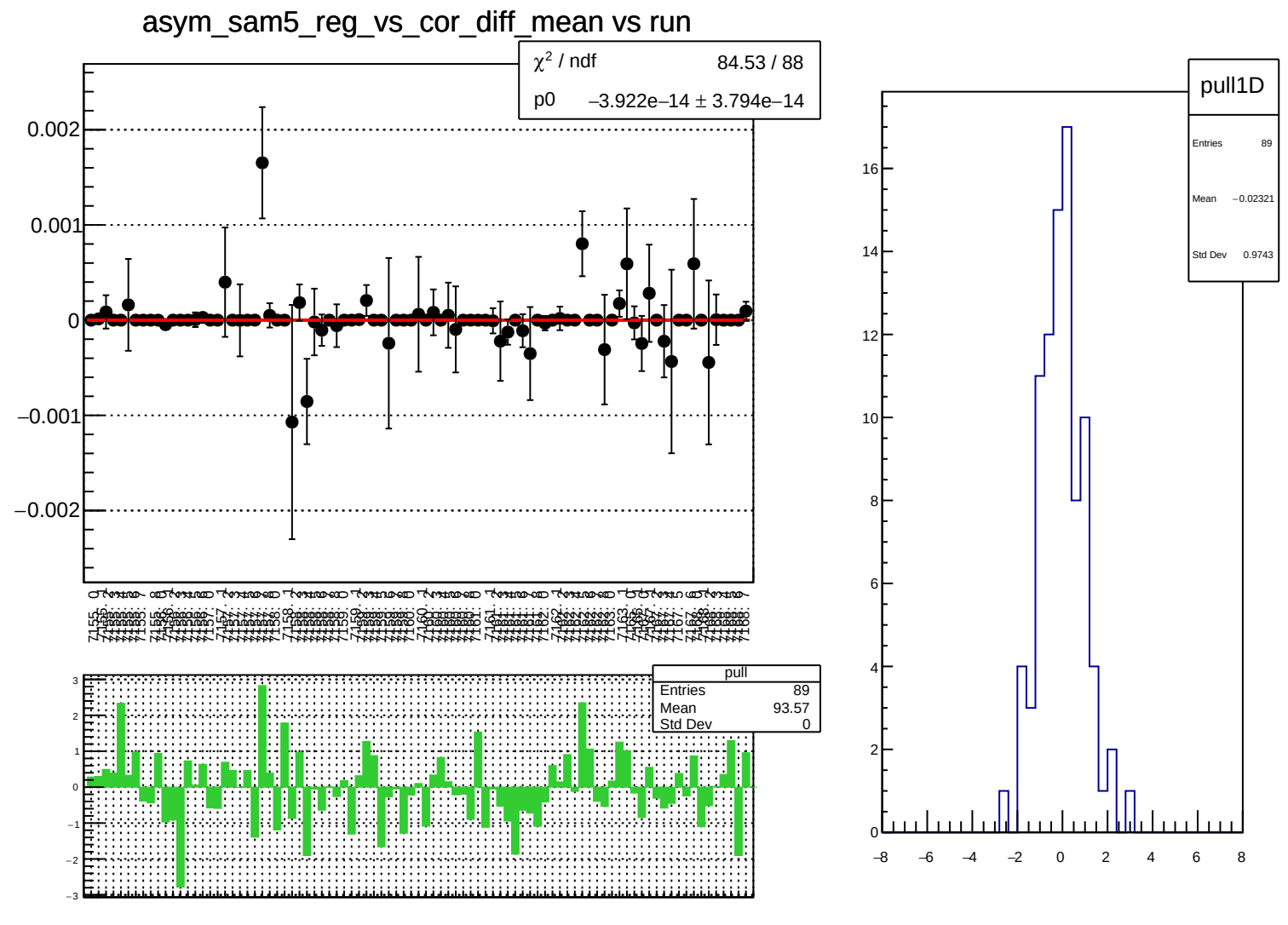

pull1D
Entries 89
Mean 0.01165
Std Dev 0.7999

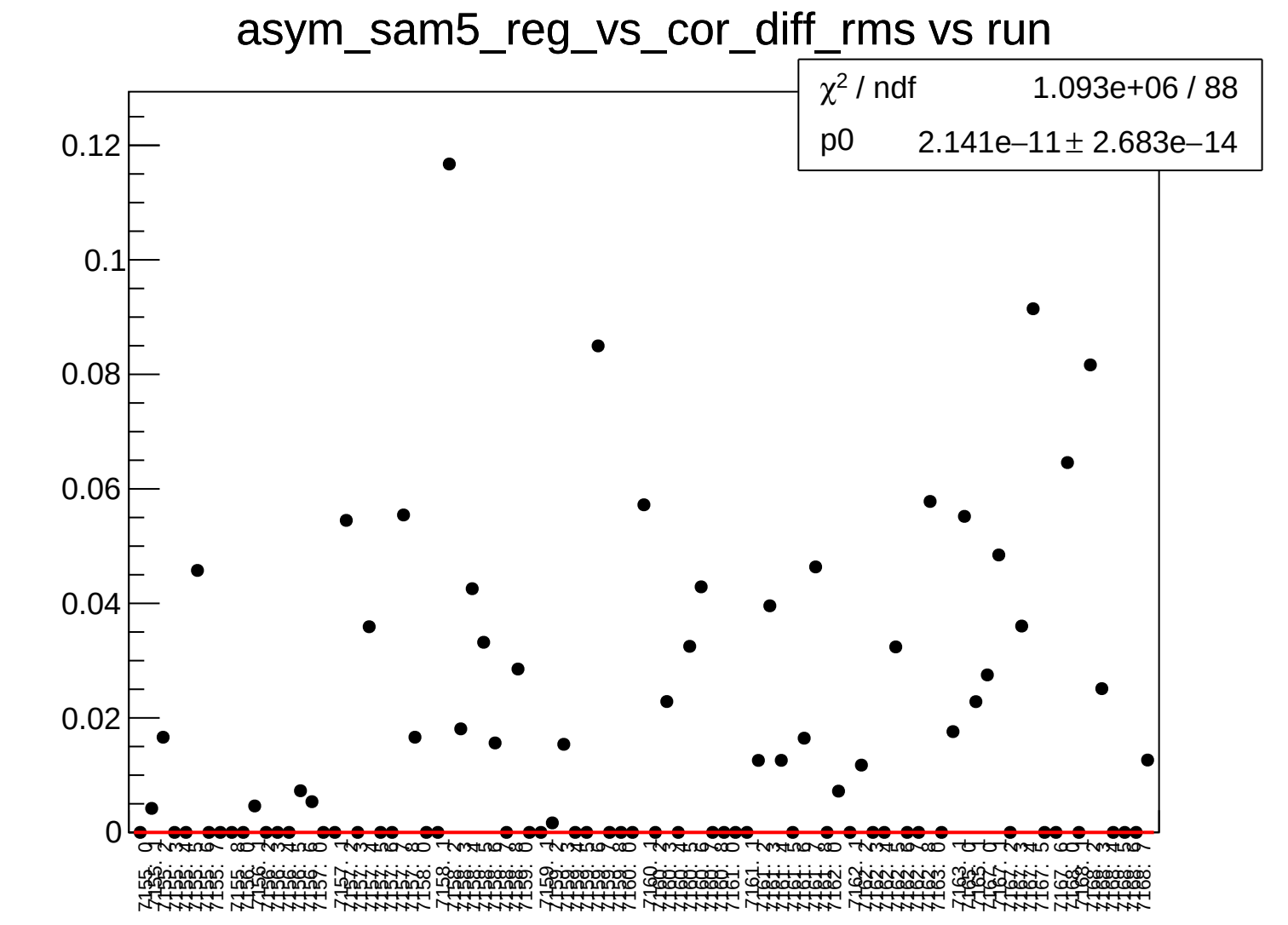

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4501 / 88
p0 1183 ± 0.9009
1350
1300
1250
1200
1150
1100
1050

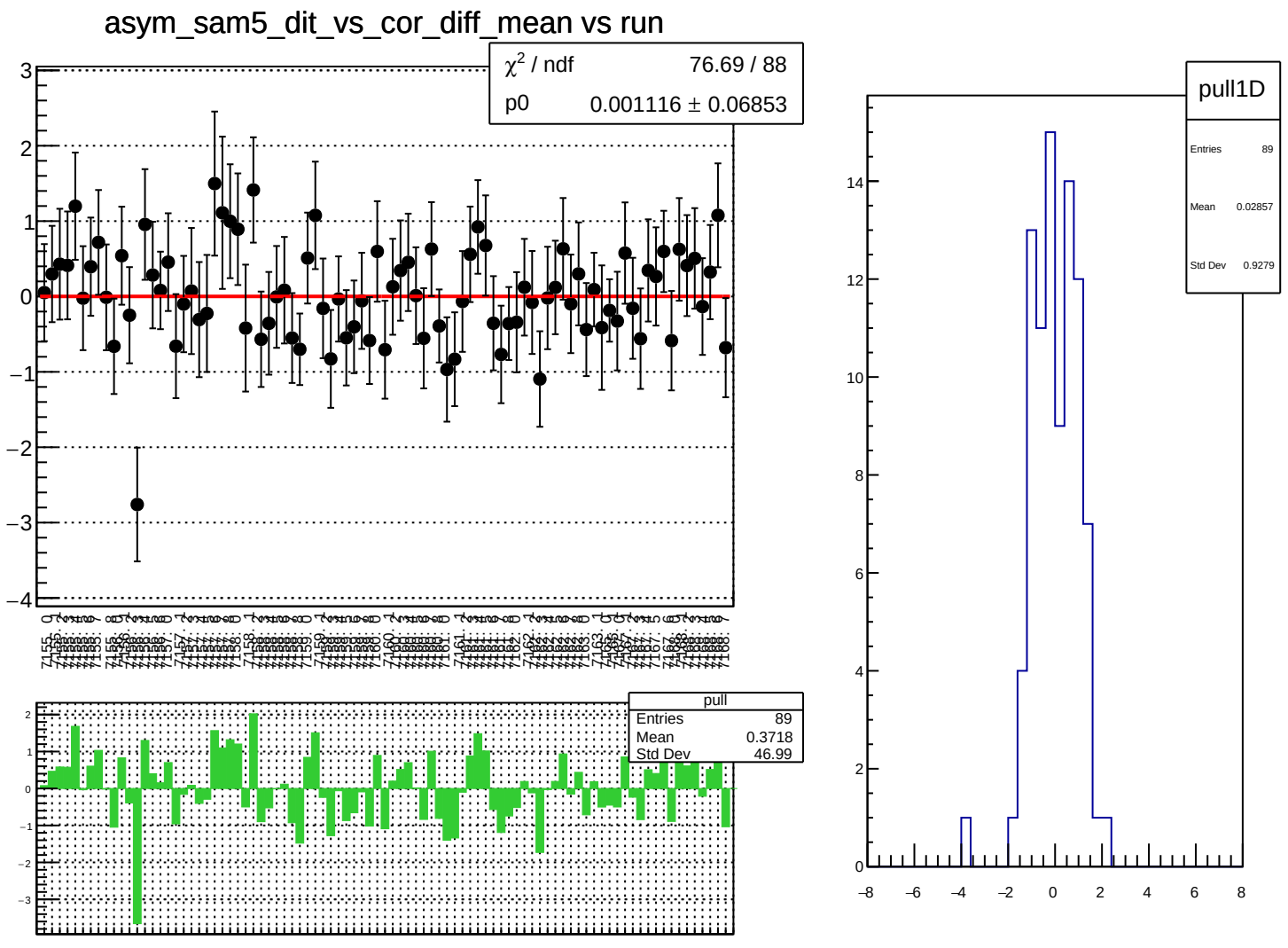

asym_sam5_mean vs run
χ^2 / ndf 59.42 / 88
p0 −1192 ± 1248
pull
Entries 89
Mean −158.6
Std Dev 0

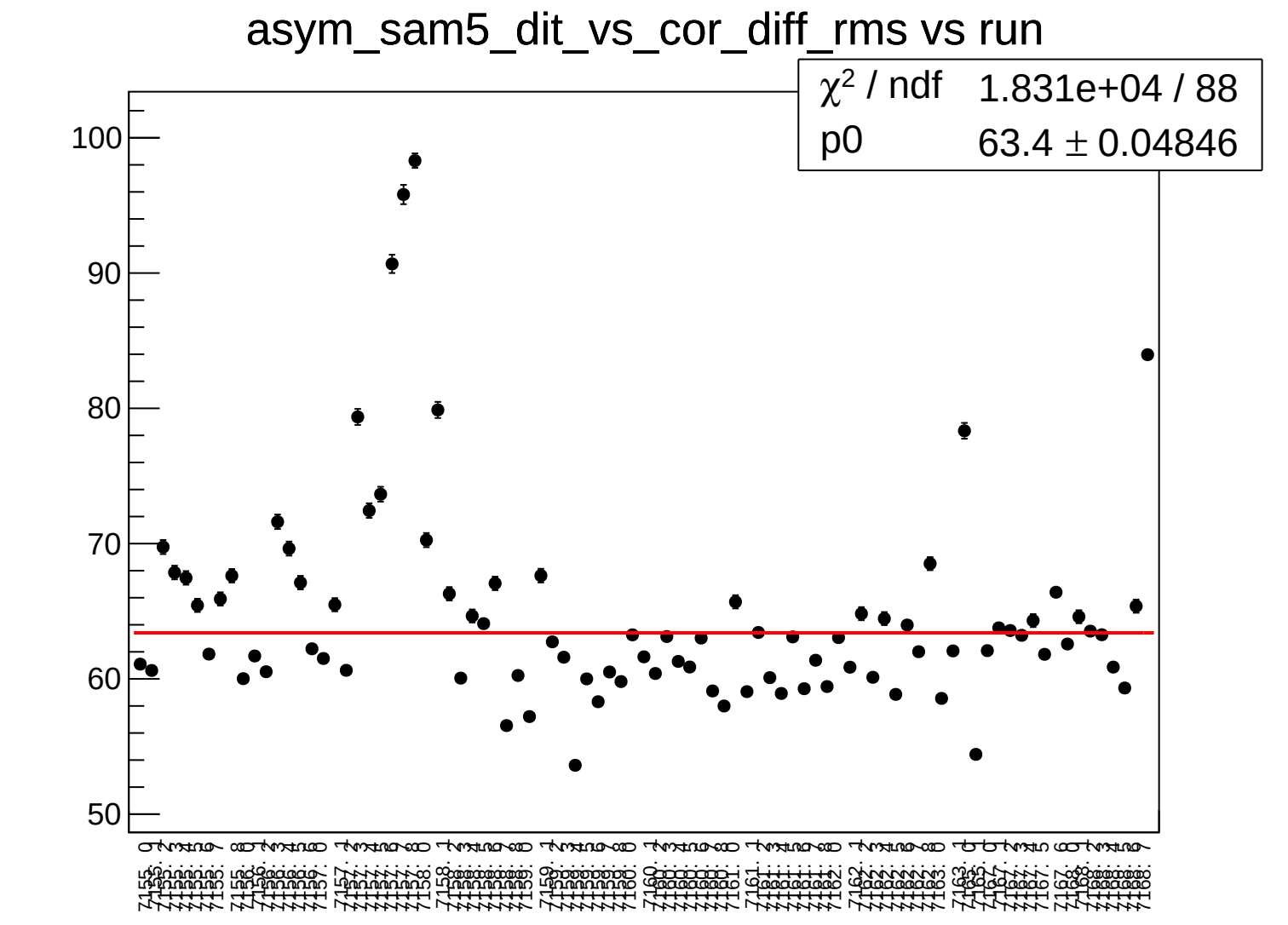

pull1D
Entries 89
Mean −0.009603
Std Dev 0.817

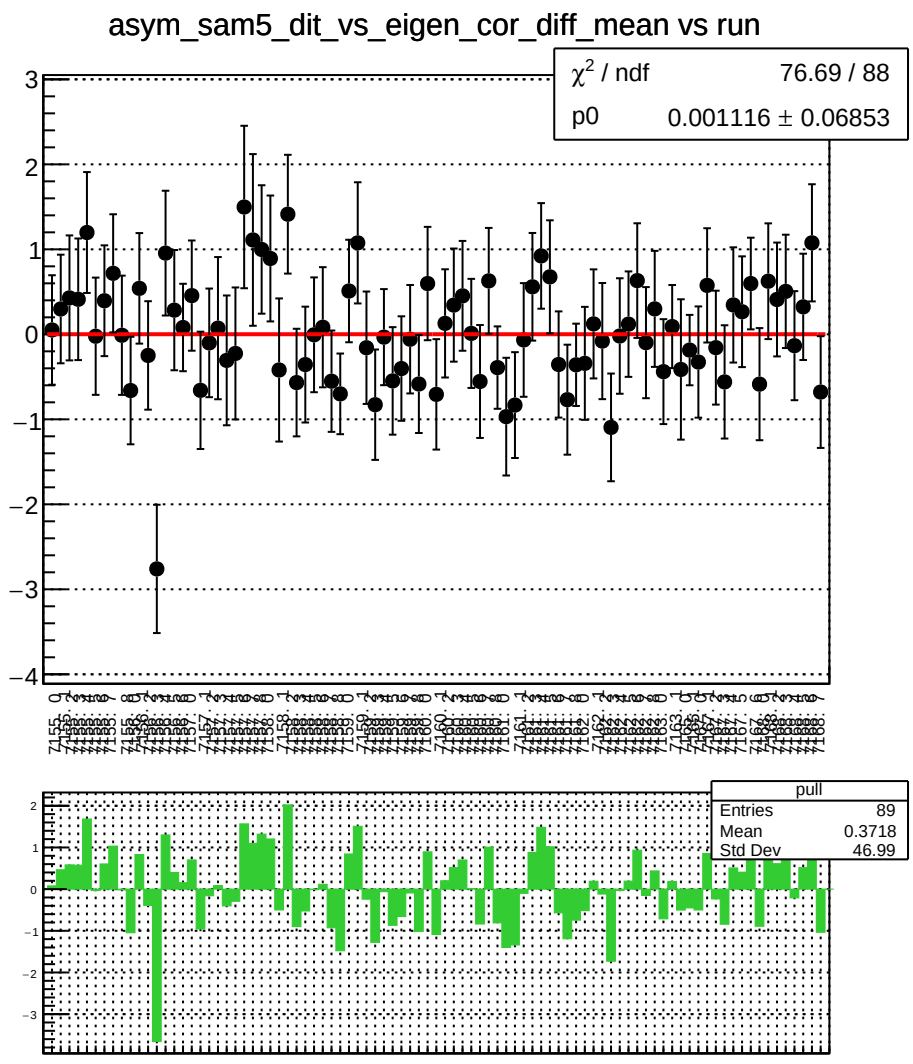

asym_sam5_rms vs run
χ² / ndf 5075 / 88
p0 1159 ± 0.8823
1300
1250
1200
1150
1100
1050
1000

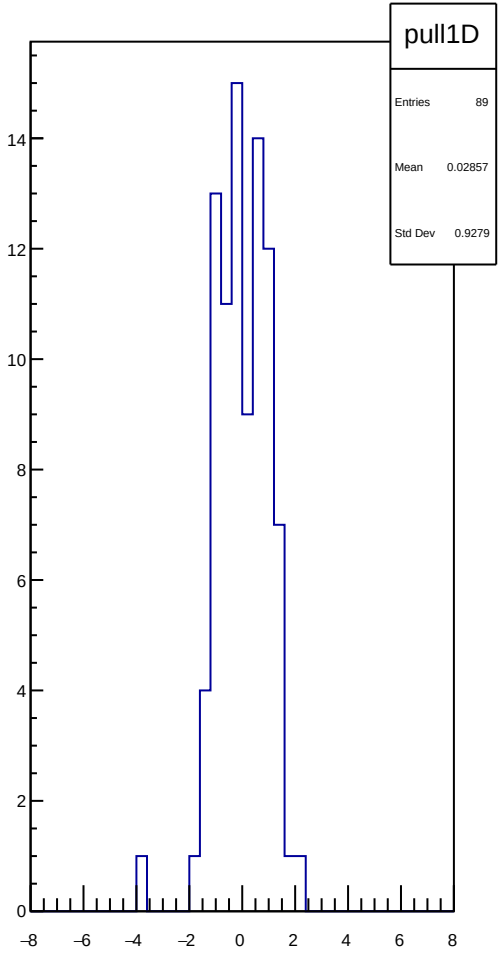

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 84.53 / 88
p0 −3.922e−14 ± 3.794e−14
0.002
0.001
0
−0.001
−0.002
pull
Entries 89
Mean 93.57
Std Dev 0
pull1D
Entries 89
Mean −0.02321
Std Dev 0.9743
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

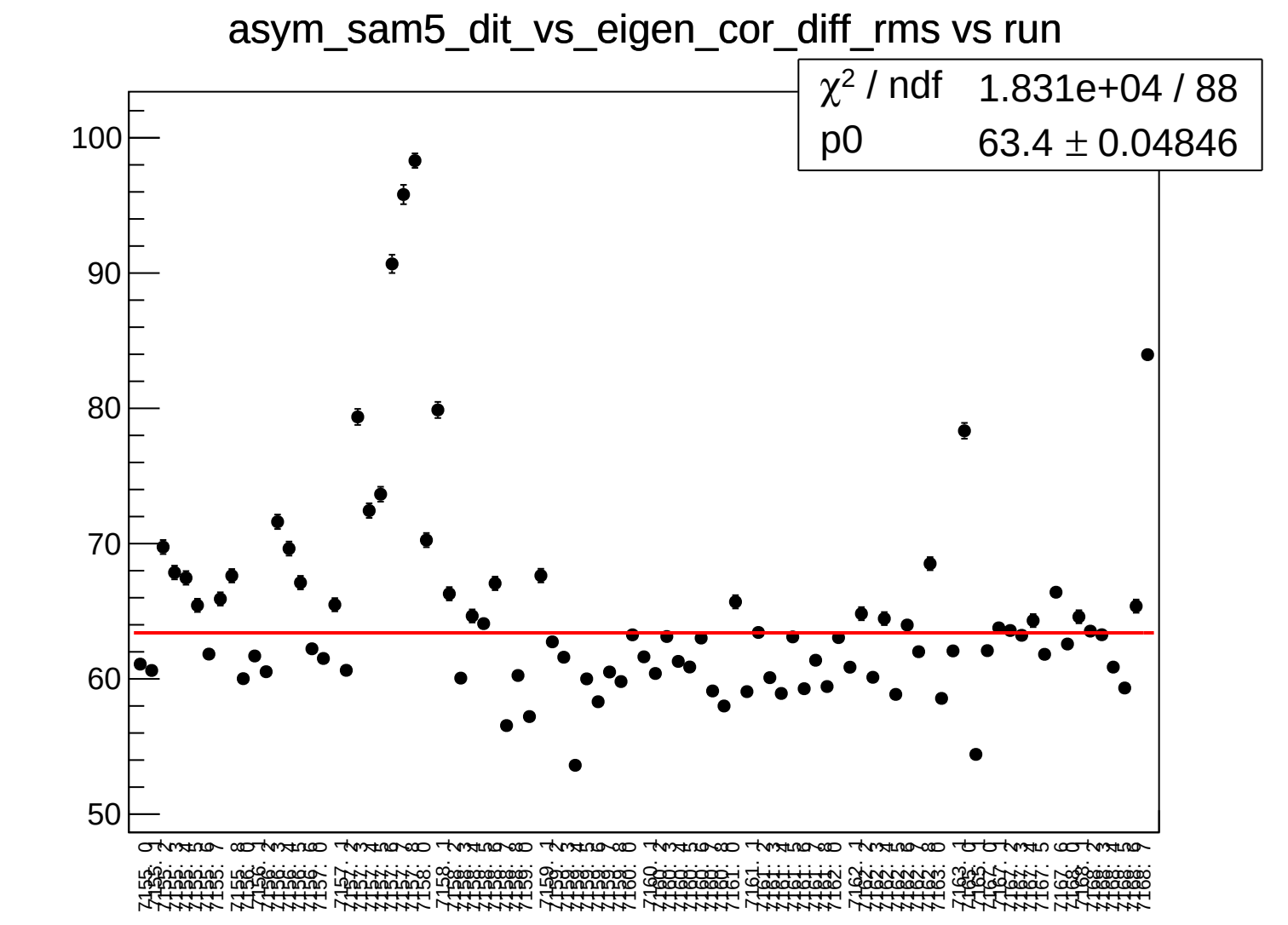

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 88
p0 2.141e−11 ± 2.683e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

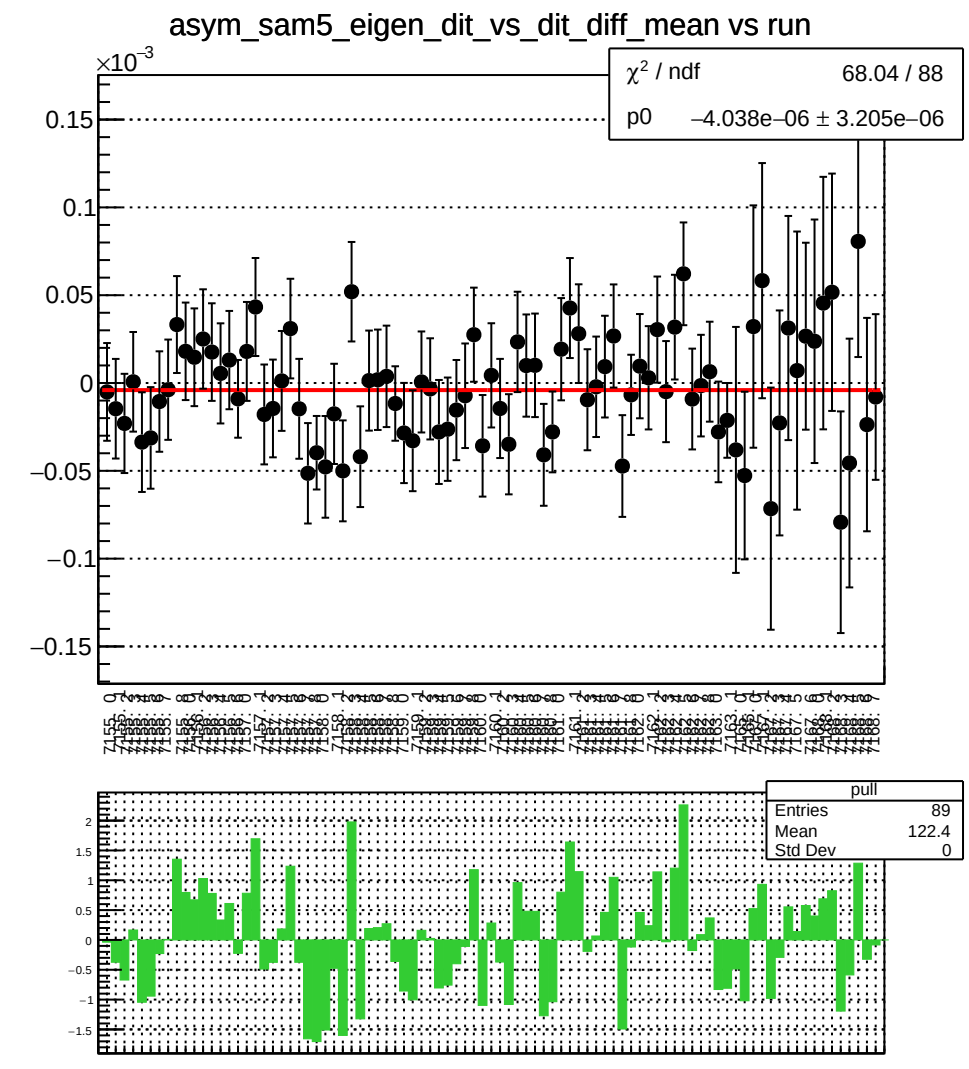

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 76.69 / 88
p0 0.001116 ± 0.06853
pull
Entries 89
Mean 0.3718
Std Dev 46.99
pull1D
Entries 89
Mean 0.02857
Std Dev 0.9279

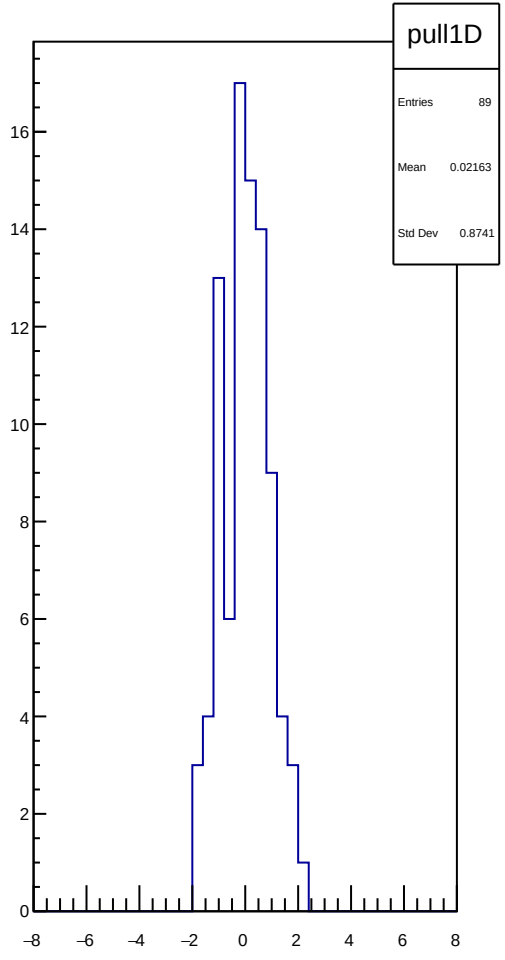

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.831e+04 / 88
p0 63.4 ± 0.04846
100
90
80
70
60
50

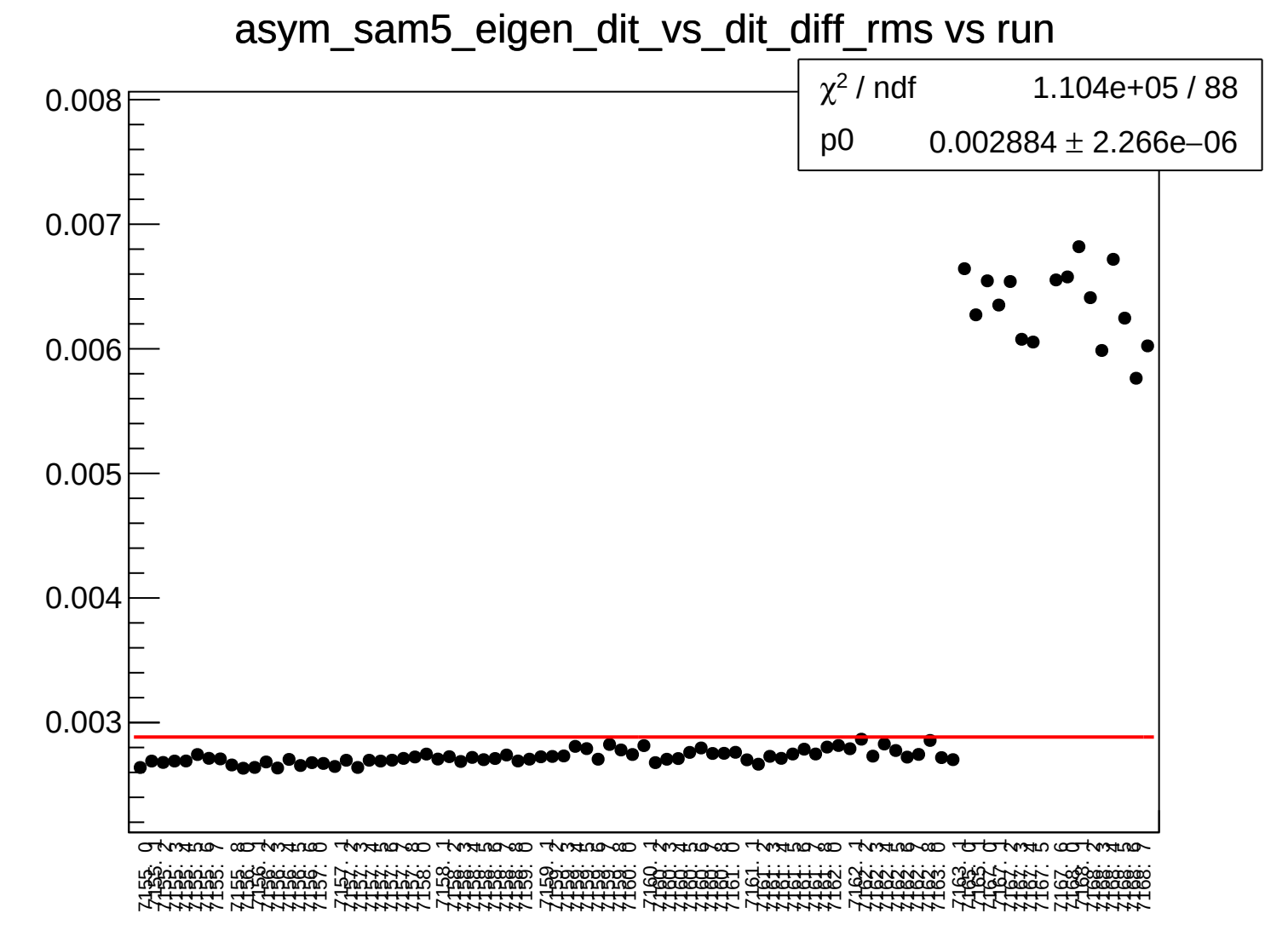

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.69 / 88
p0 0.001116 ± 0.06853
pull
Entries 89
Mean 0.3718
Std Dev 46.99

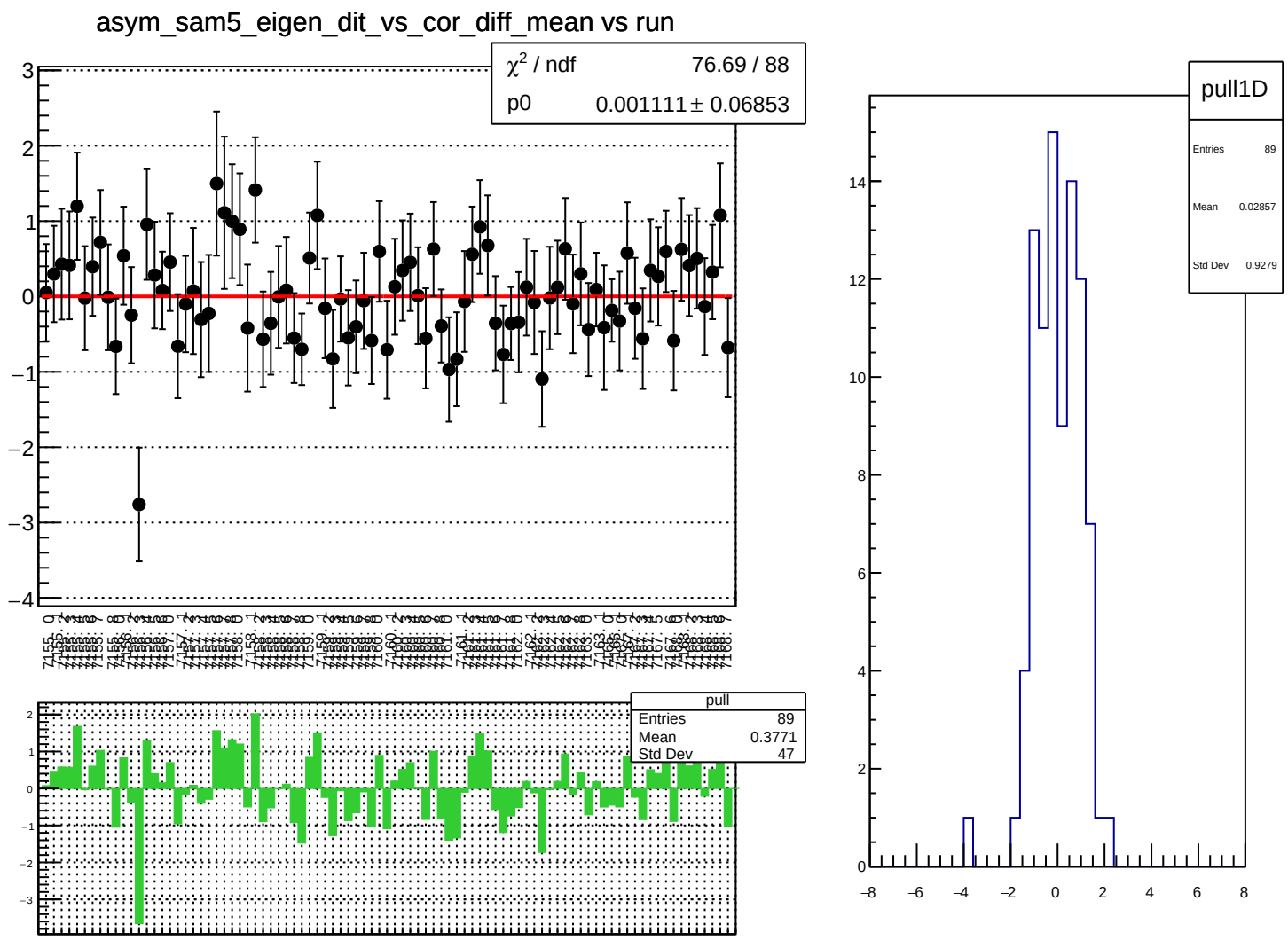

pull1D
Entries 89
Mean 0.02857
Std Dev 0.9279

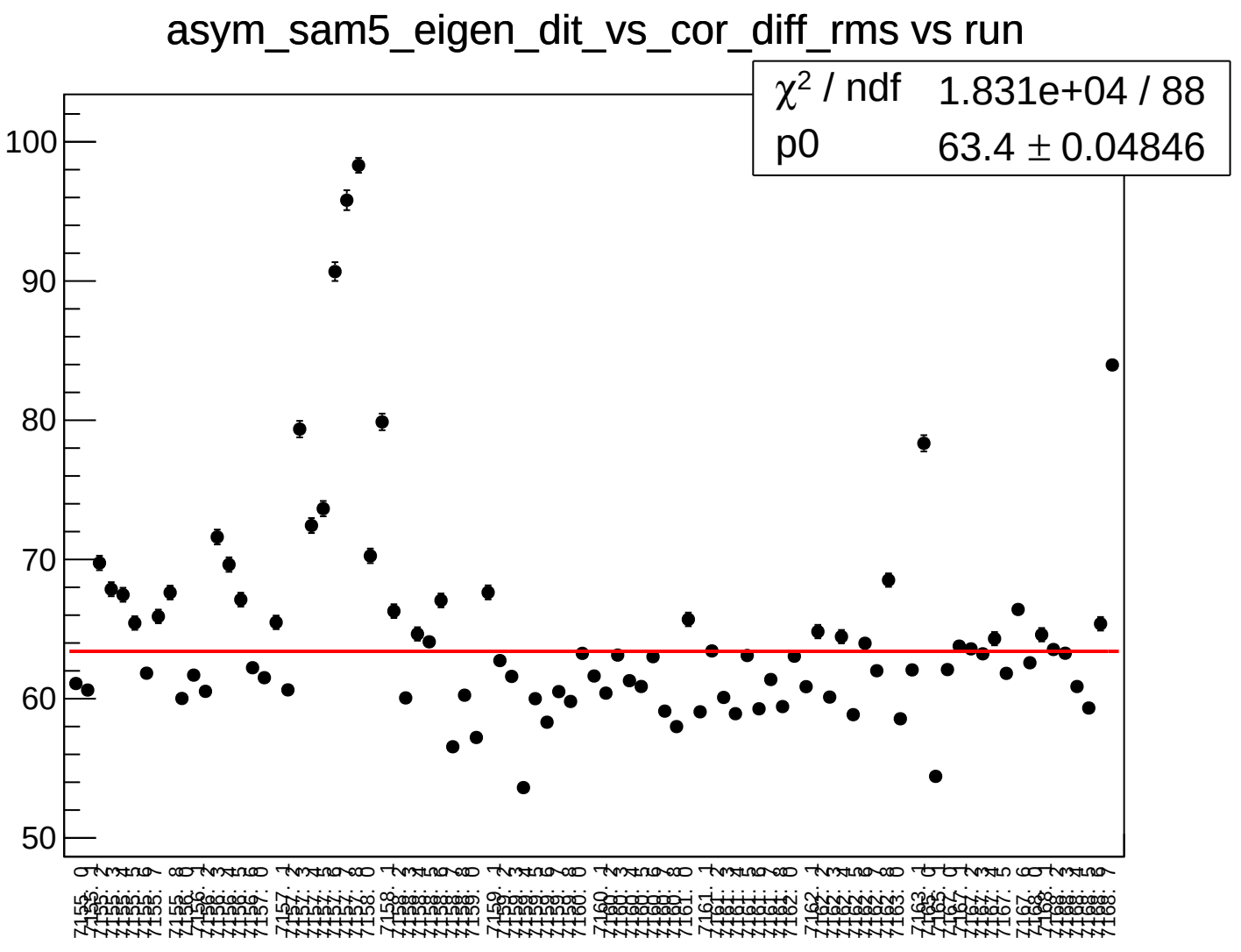

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.831e+04 / 88
p0 63.4 ± 0.04846
100
90
80
70
60
50

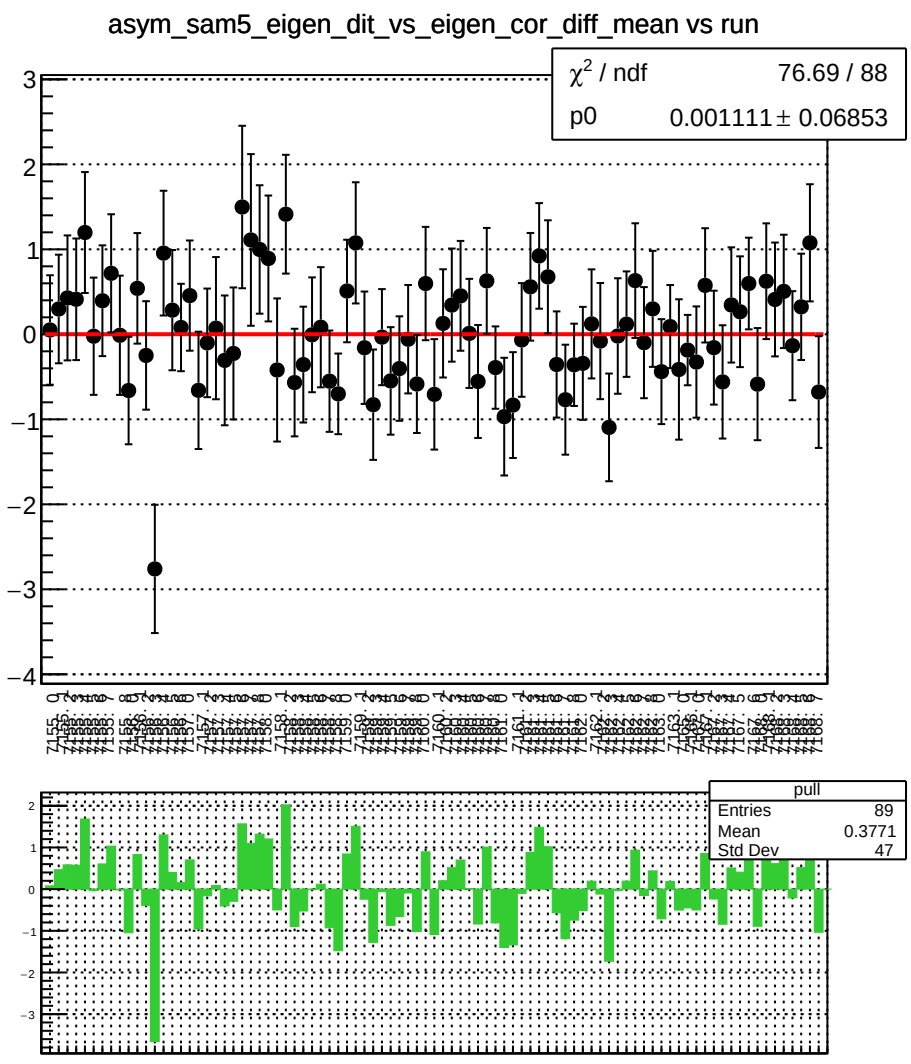

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.04 / 88
p0 −4.038e−06 ± 3.205e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean 122.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

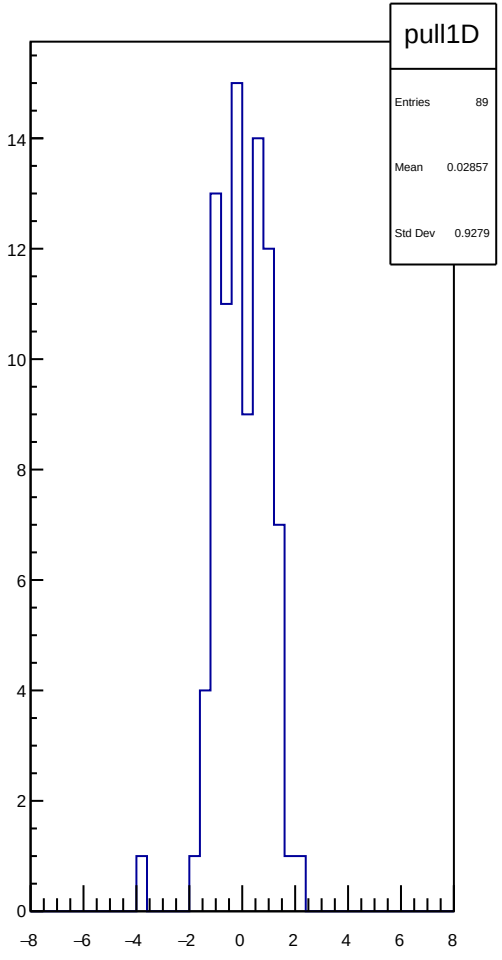

pull1D
Entries 89
Mean 0.02163
Std Dev 0.8741
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

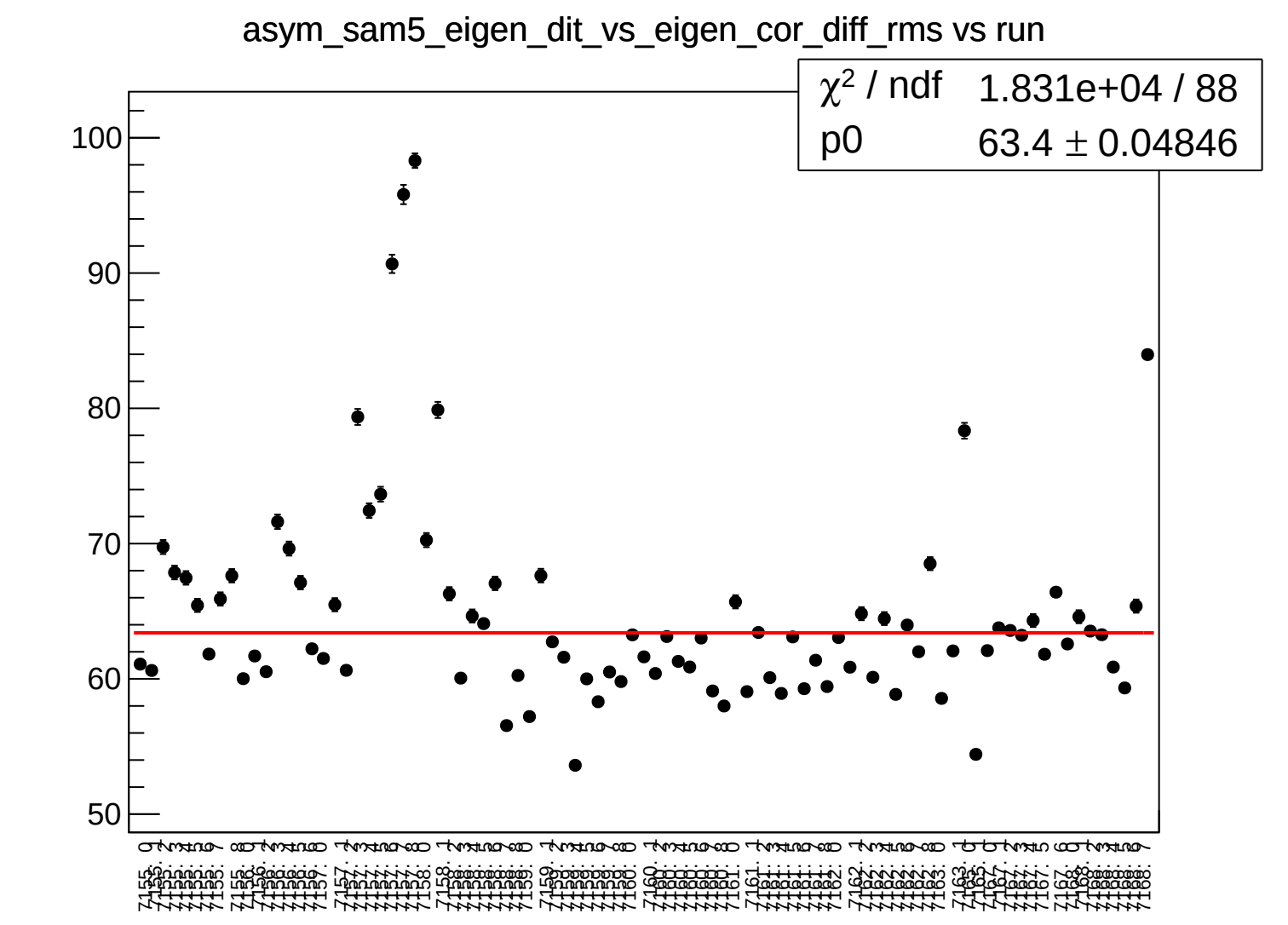

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.104e+05 / 88
p0 0.002884 ± 2.266e−06
0.008
0.007
0.006
0.005
0.004
0.003

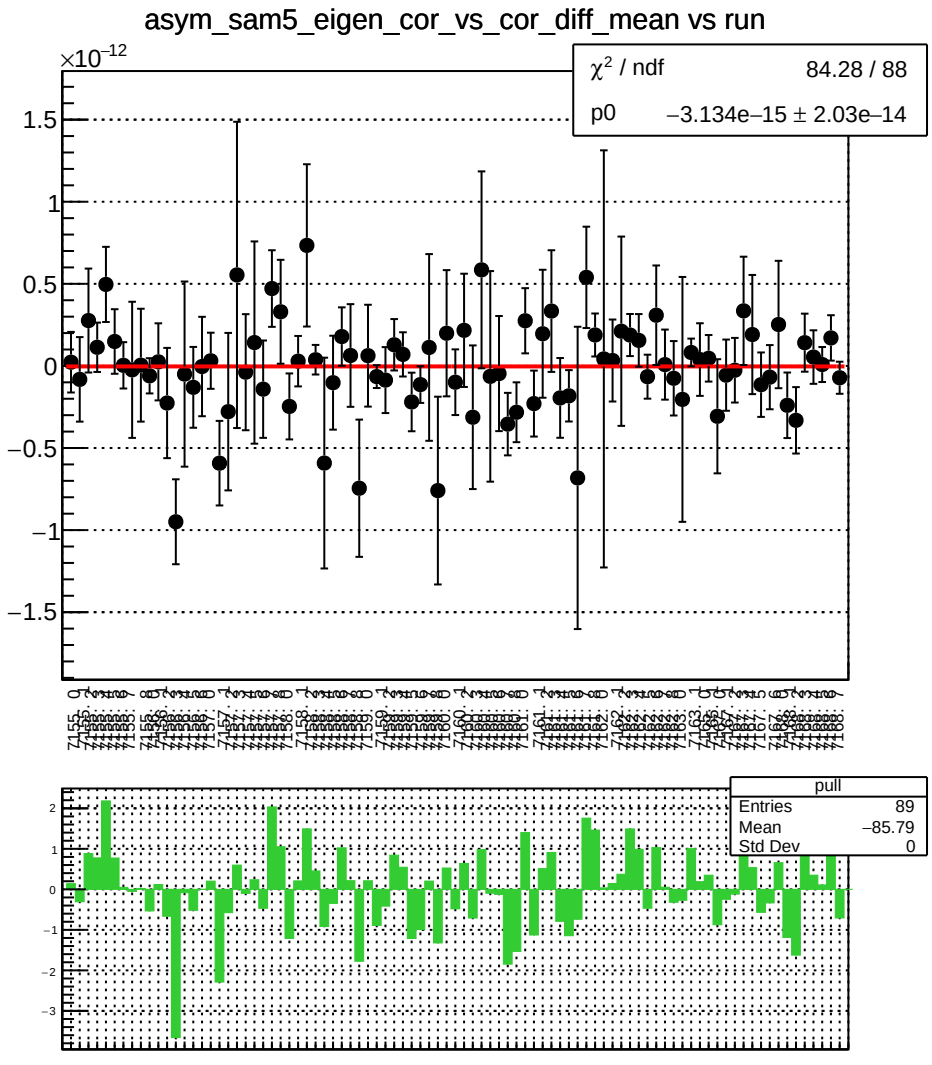

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.69 / 88
p0 0.001111 ± 0.06853
pull
Entries 89
Mean 0.3771
Std Dev 47
pull1D
Entries 89
Mean 0.02857
Std Dev 0.9279

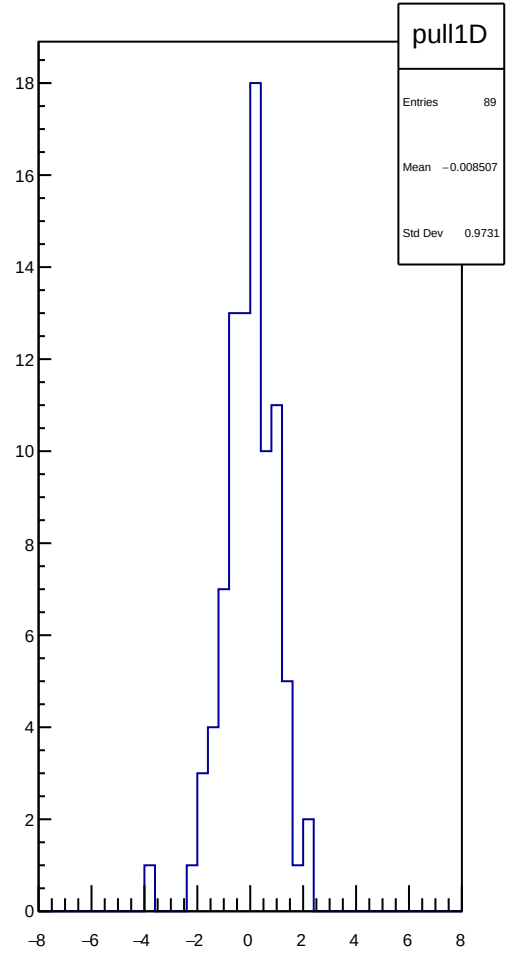

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.831e+04 / 88
p0 63.4 ± 0.04846
100
90
80
70
60
50

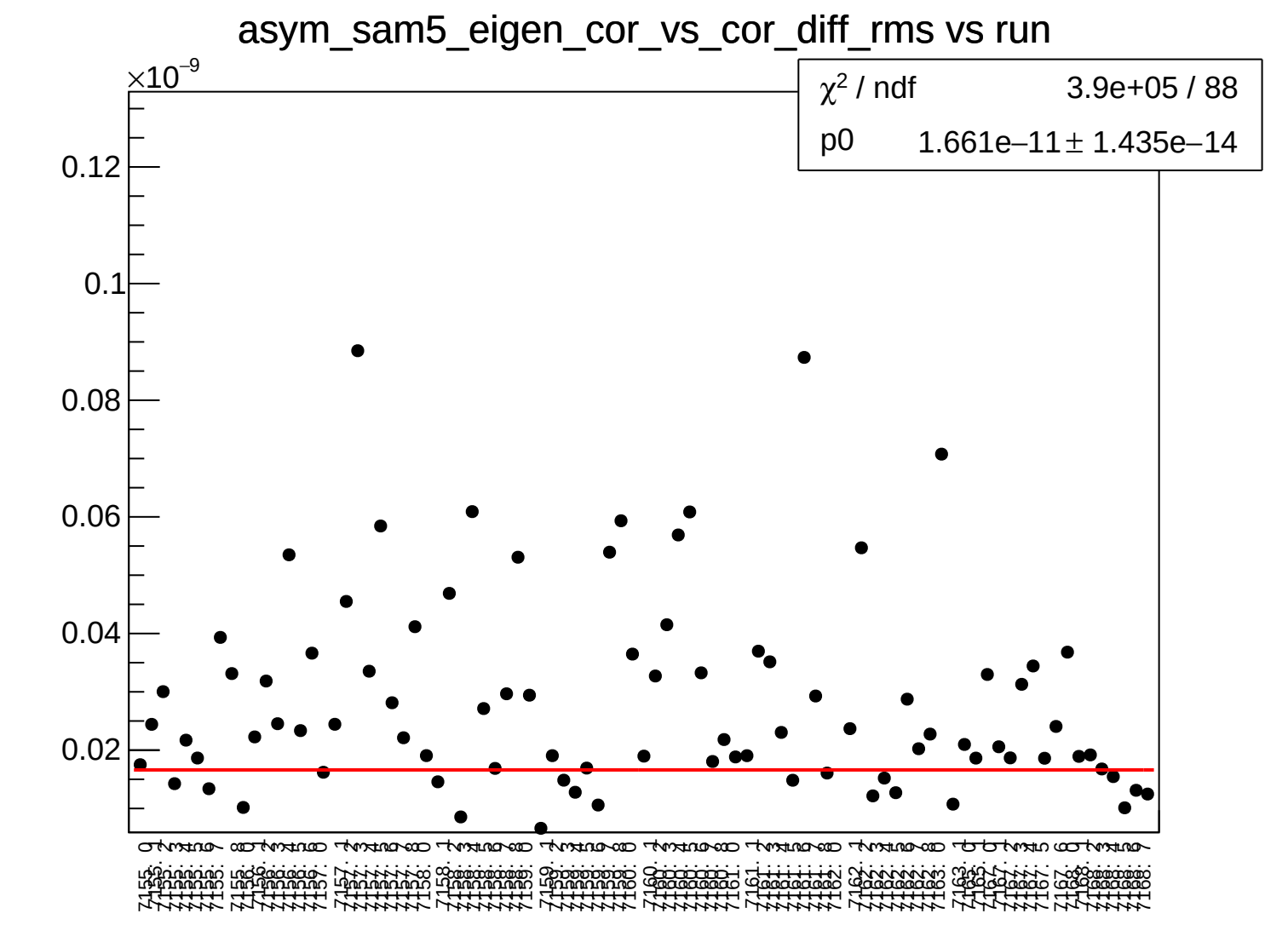

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.69 / 88
p0 0.001111 ± 0.06853
pull
Entries 89
Mean 0.3771
Std Dev 47

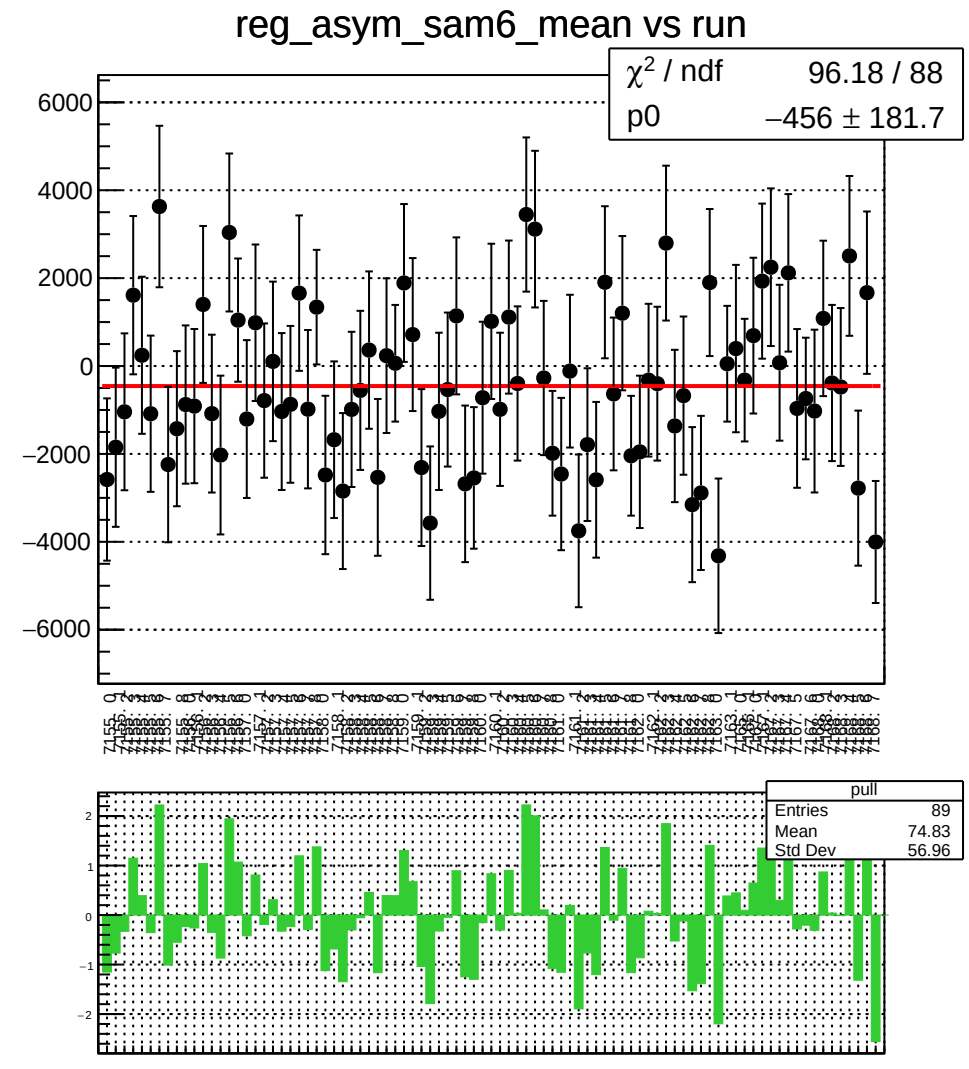

pull1D
Entries 89
Mean 0.02857
Std Dev 0.9279

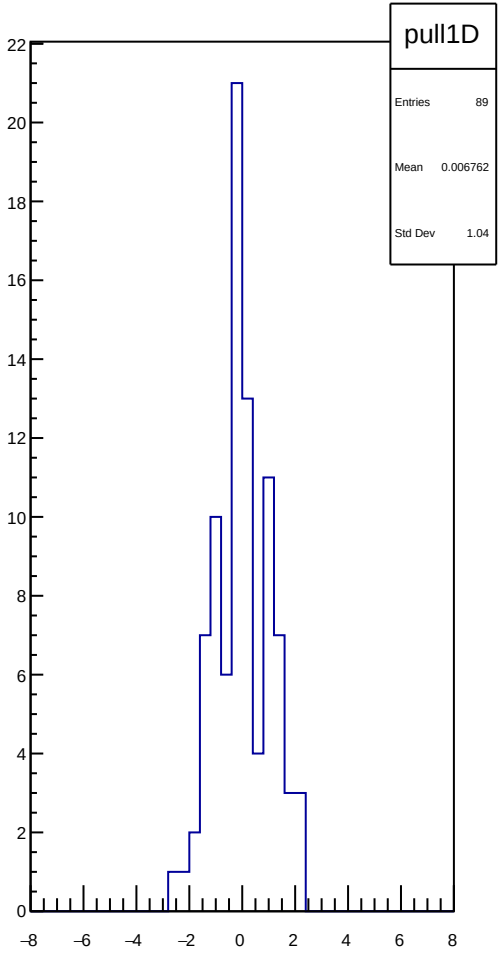

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.831e+04 / 88
p0 63.4 ± 0.04846
100
90
80
70
60
50

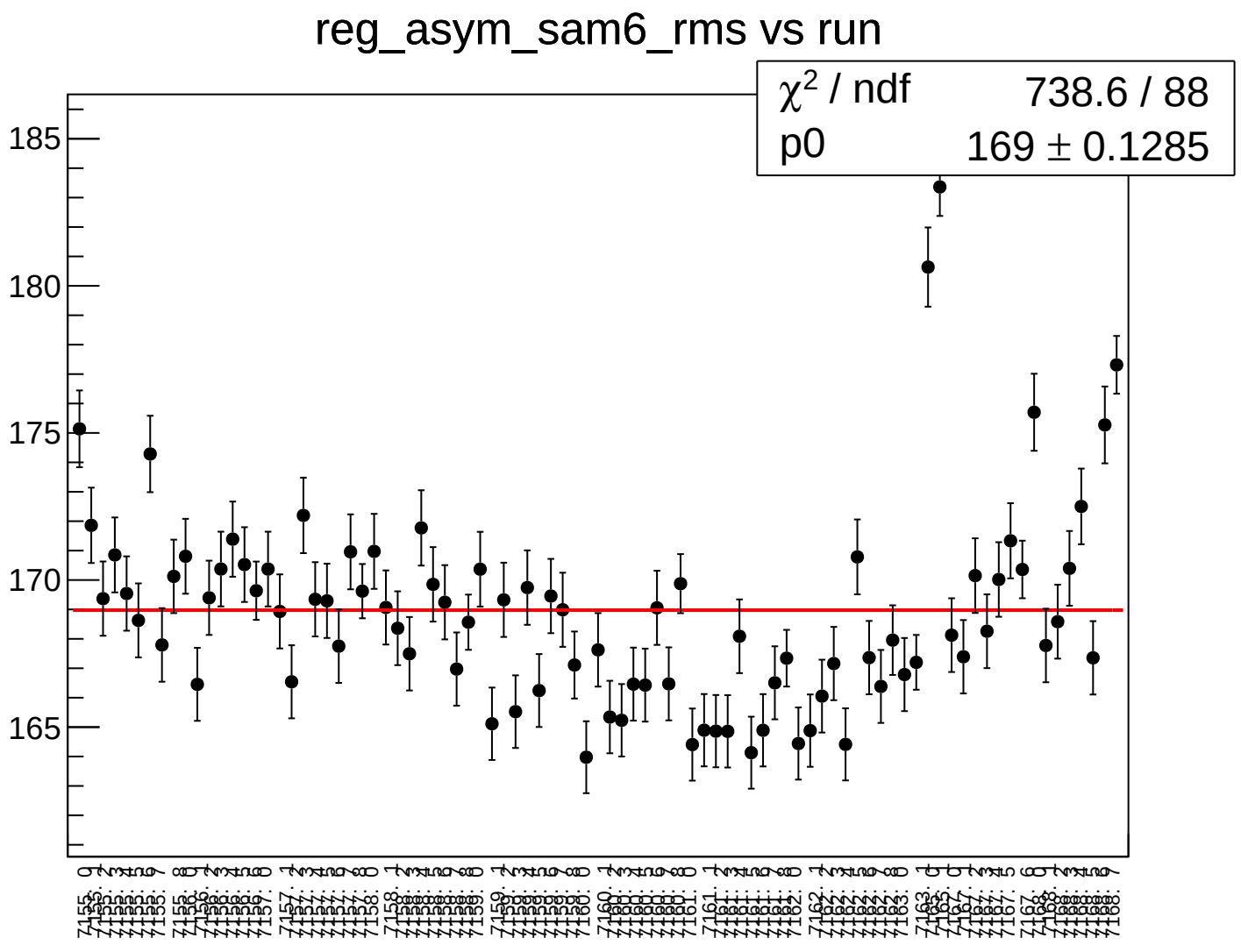

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.28 / 88
p0 −3.134e−15 ± 2.03e−14
pull
Entries 89
Mean −85.79
Std Dev 0

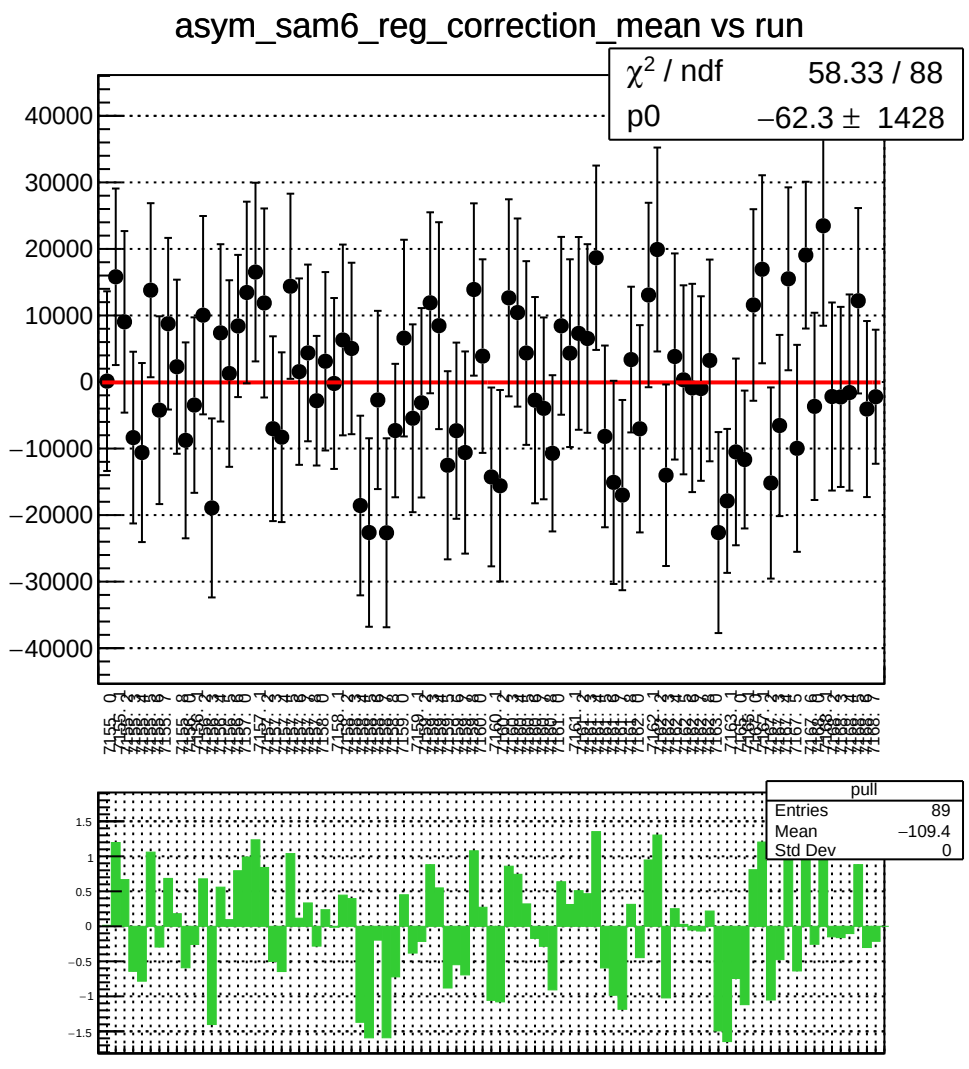

pull1D
Entries 89
Mean −0.008507
Std Dev 0.9731

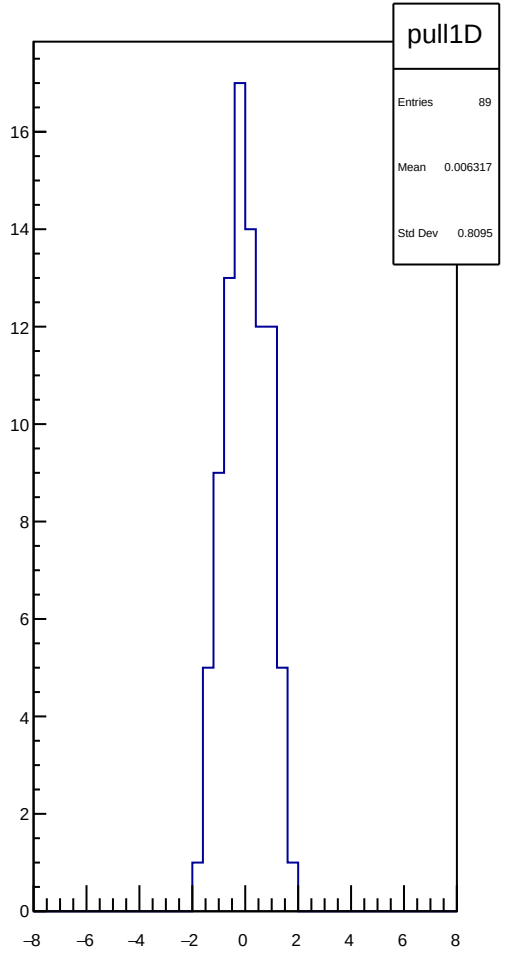

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 3.9e+05 / 88
p0 1.661e−11 ± 1.435e−14
0.12
0.1
0.08
0.06
0.04
0.02

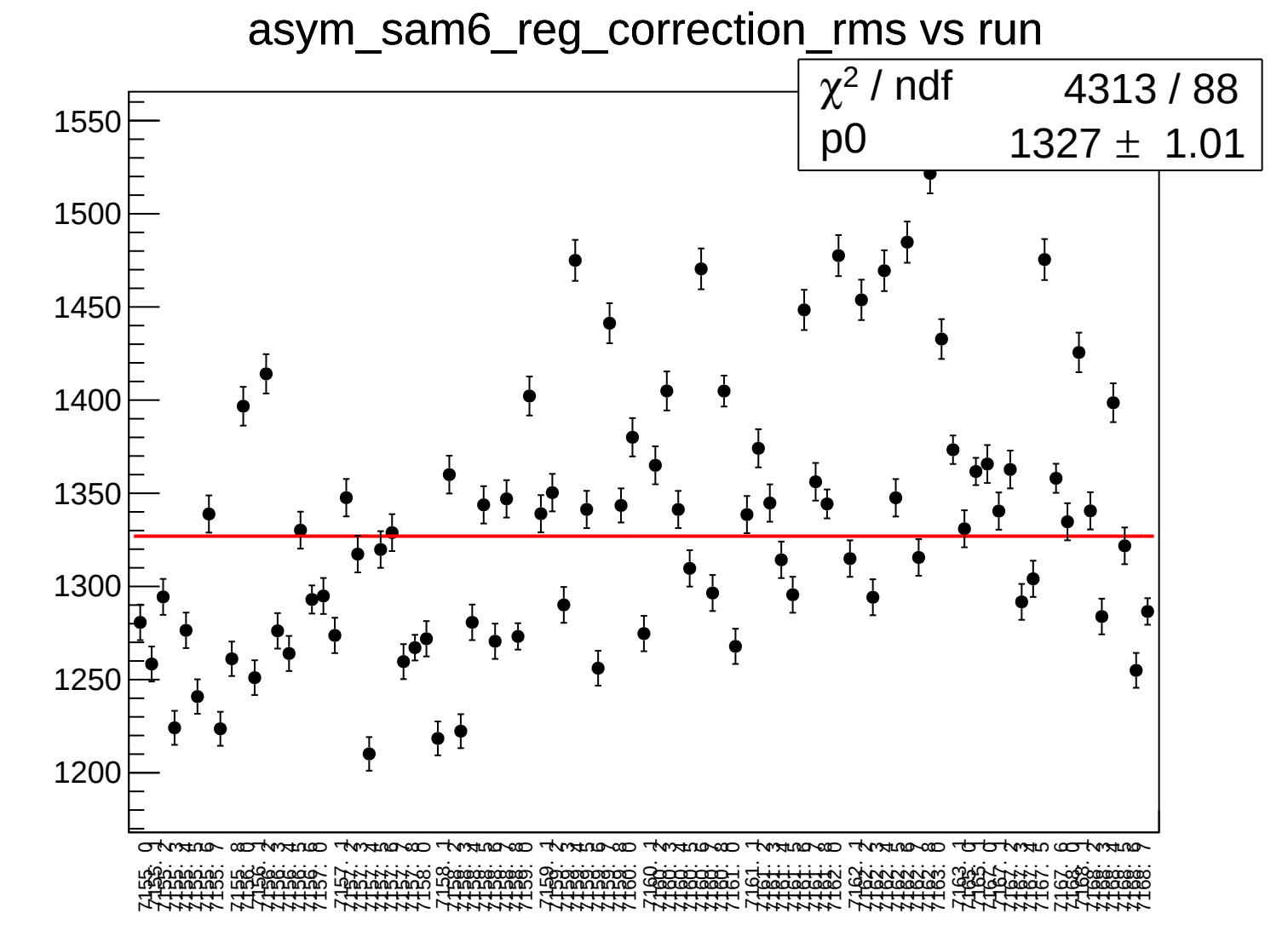

reg_asym_sam6_mean vs run
χ² / ndf 96.18 / 88
p0 −456 ± 181.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 74.83
Std Dev 56.96
2
1
0
−1
−2

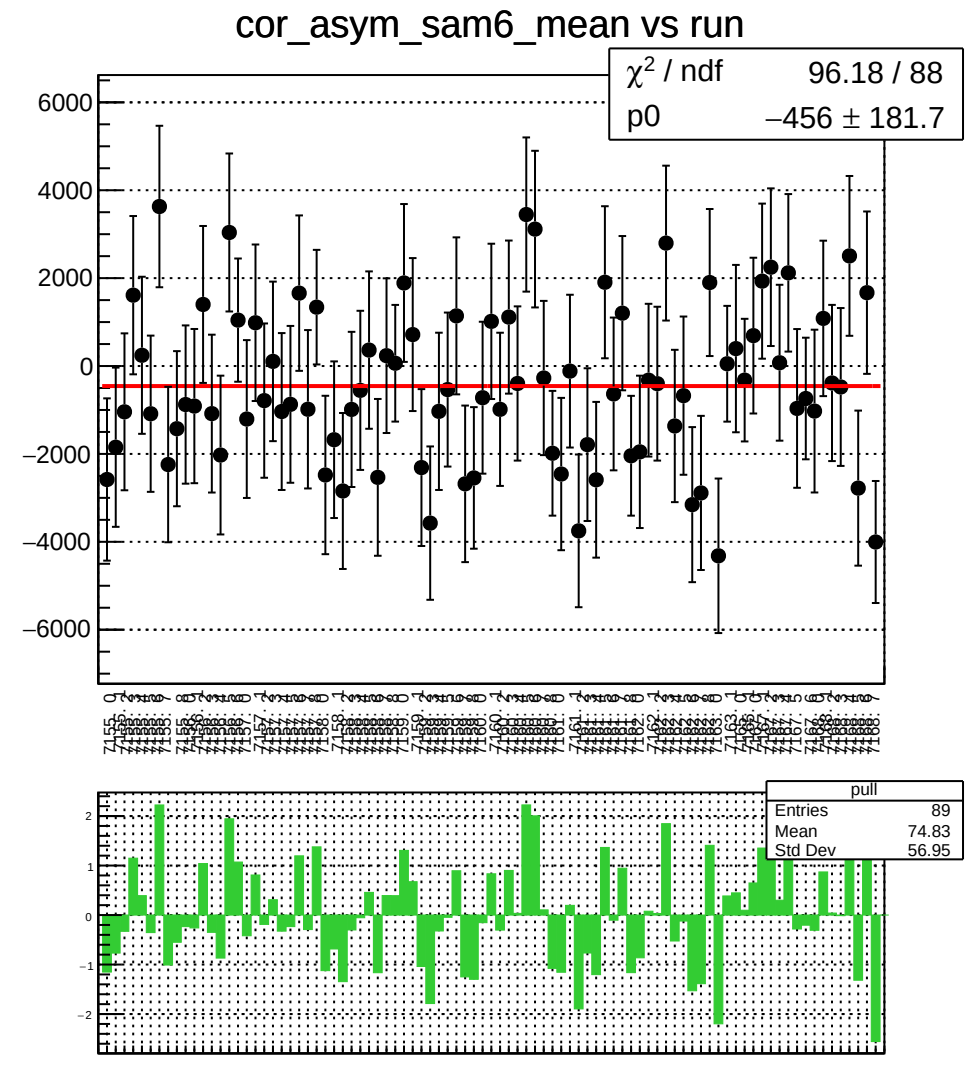

pull1D
Entries 89
Mean 0.006762
Std Dev 1.04
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

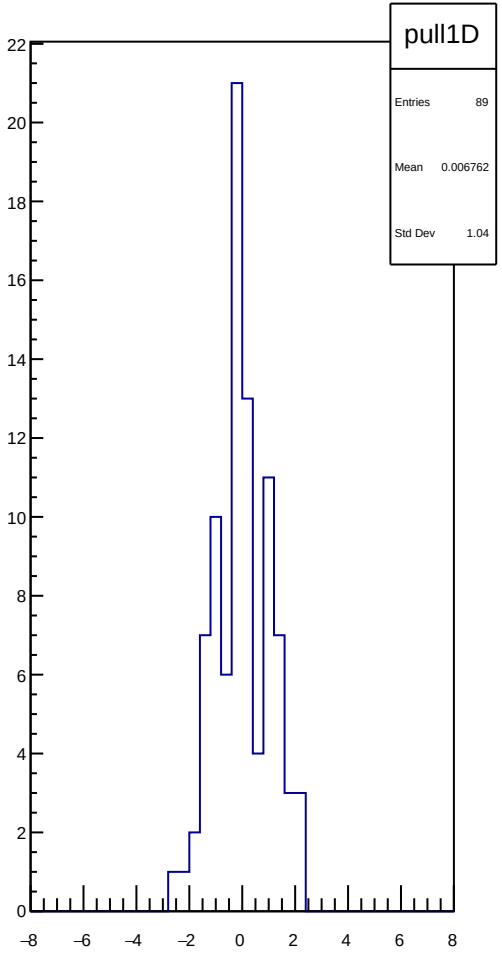

reg_asym_sam6_rms vs run
χ² / ndf 738.6 / 88
p0 169 ± 0.1285
185
180
175
170
165

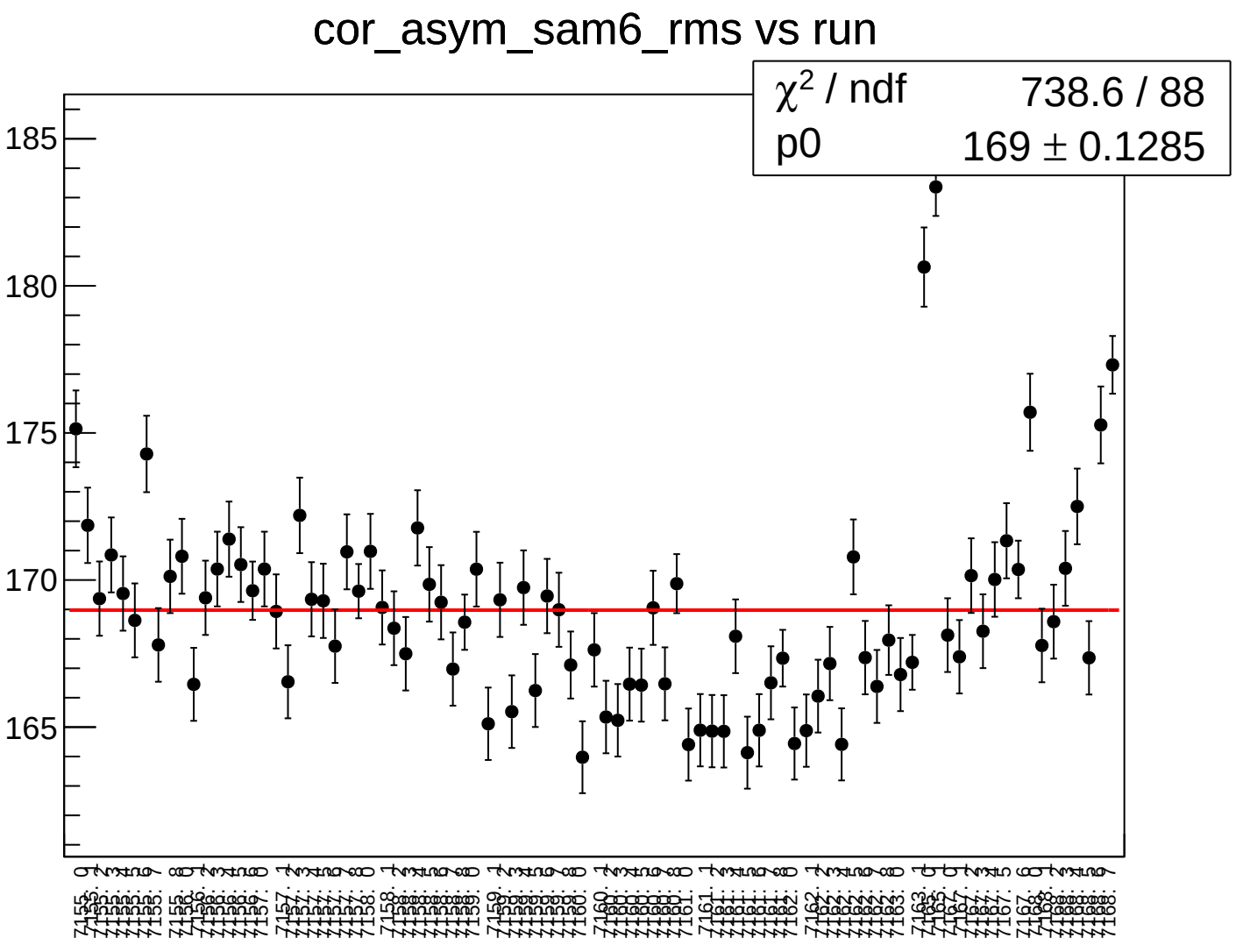

asym_sam6_reg_correction_mean vs run
χ² / ndf 58.33 / 88
p0 −62.3 ± 1428
pull
Entries 89
Mean −109.4
Std Dev 0

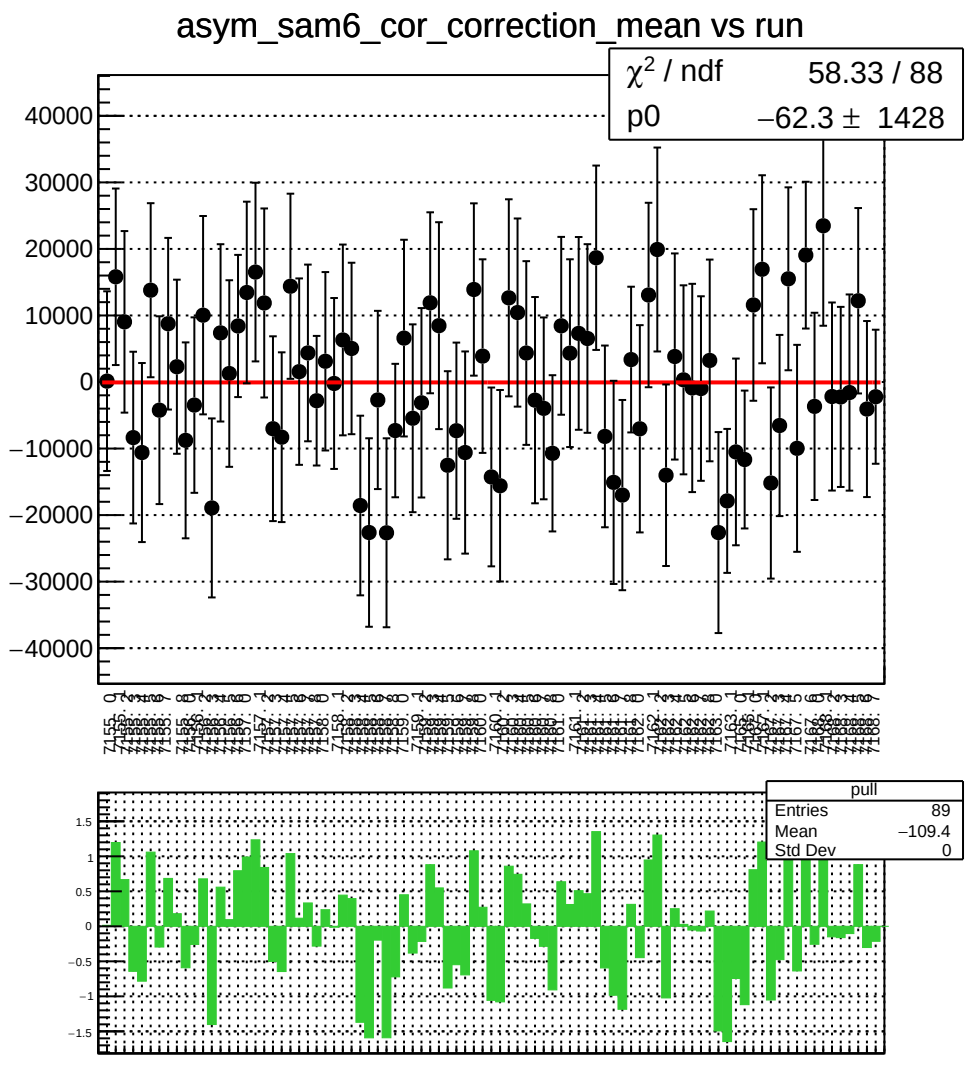

pull1D
Entries 89
Mean 0.006317
Std Dev 0.8095

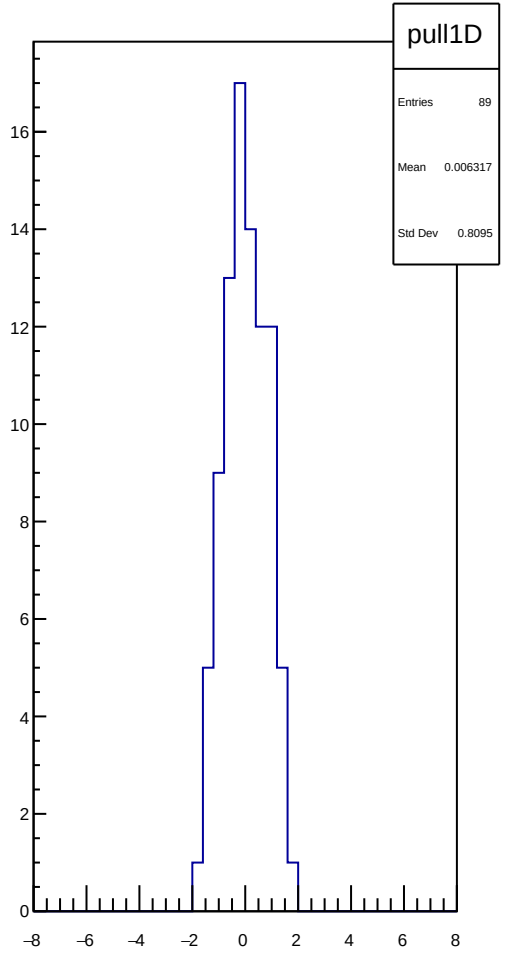

asym_sam6_reg_correction_rms vs run
χ² / ndf 4313 / 88
p0 1327 ± 1.01
1550
1500
1450
1400
1350
1300
1250
1200

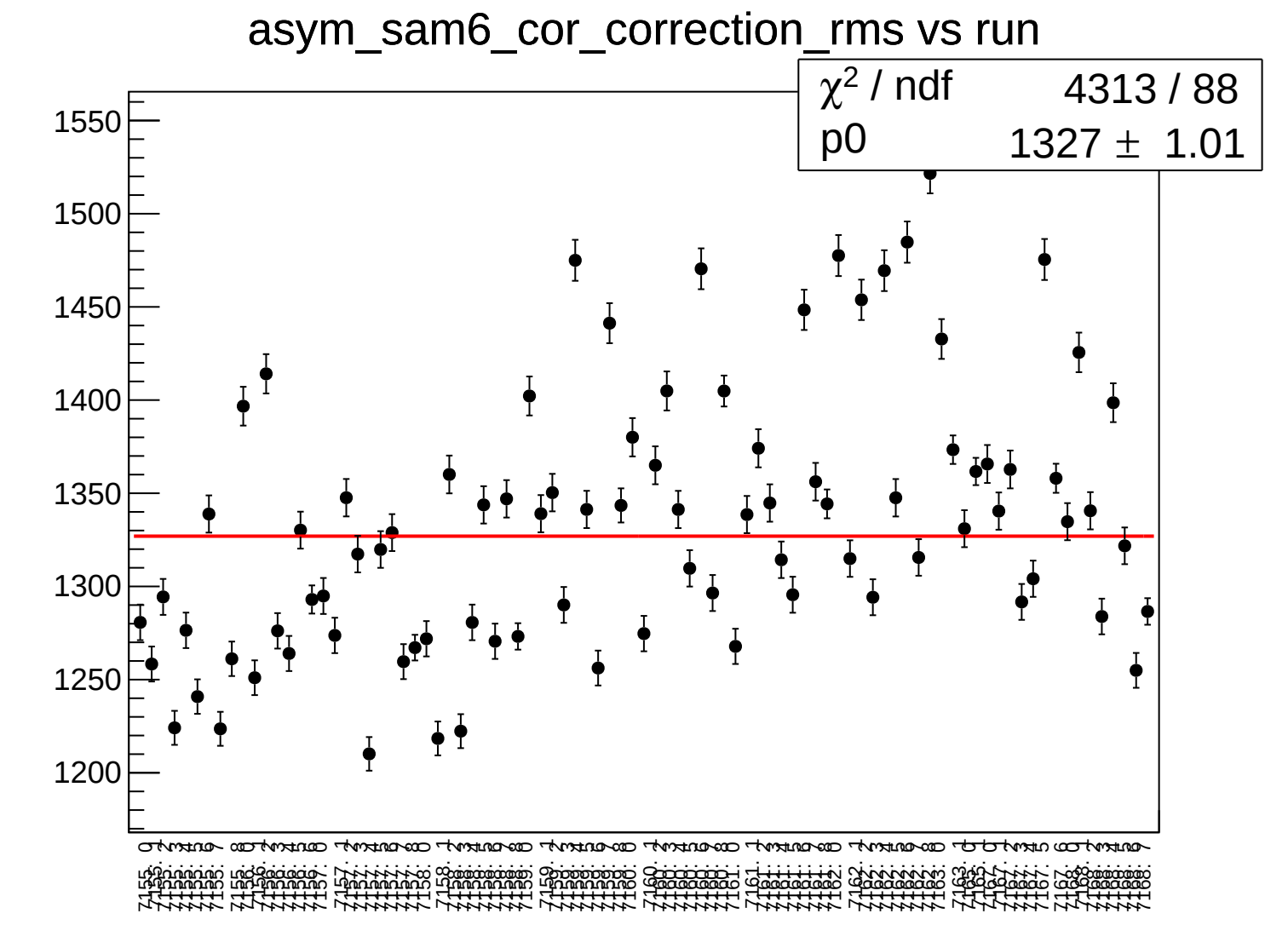

cor_asym_sam6_mean vs run
χ² / ndf 96.18 / 88
p0 −456 ± 181.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 74.83
Std Dev 56.95
2
1
0
−1
−2

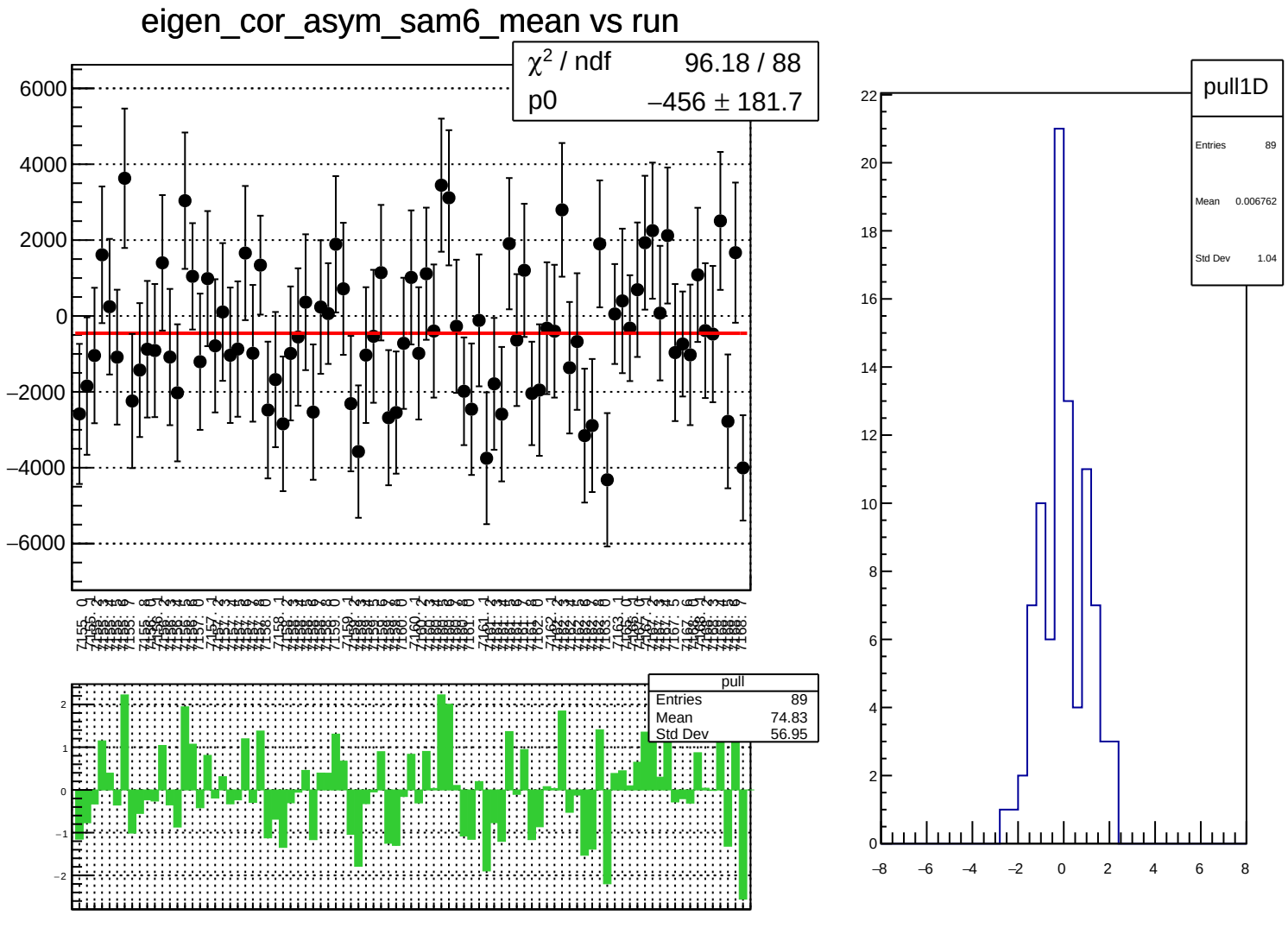

pull1D
Entries 89
Mean 0.006762
Std Dev 1.04
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

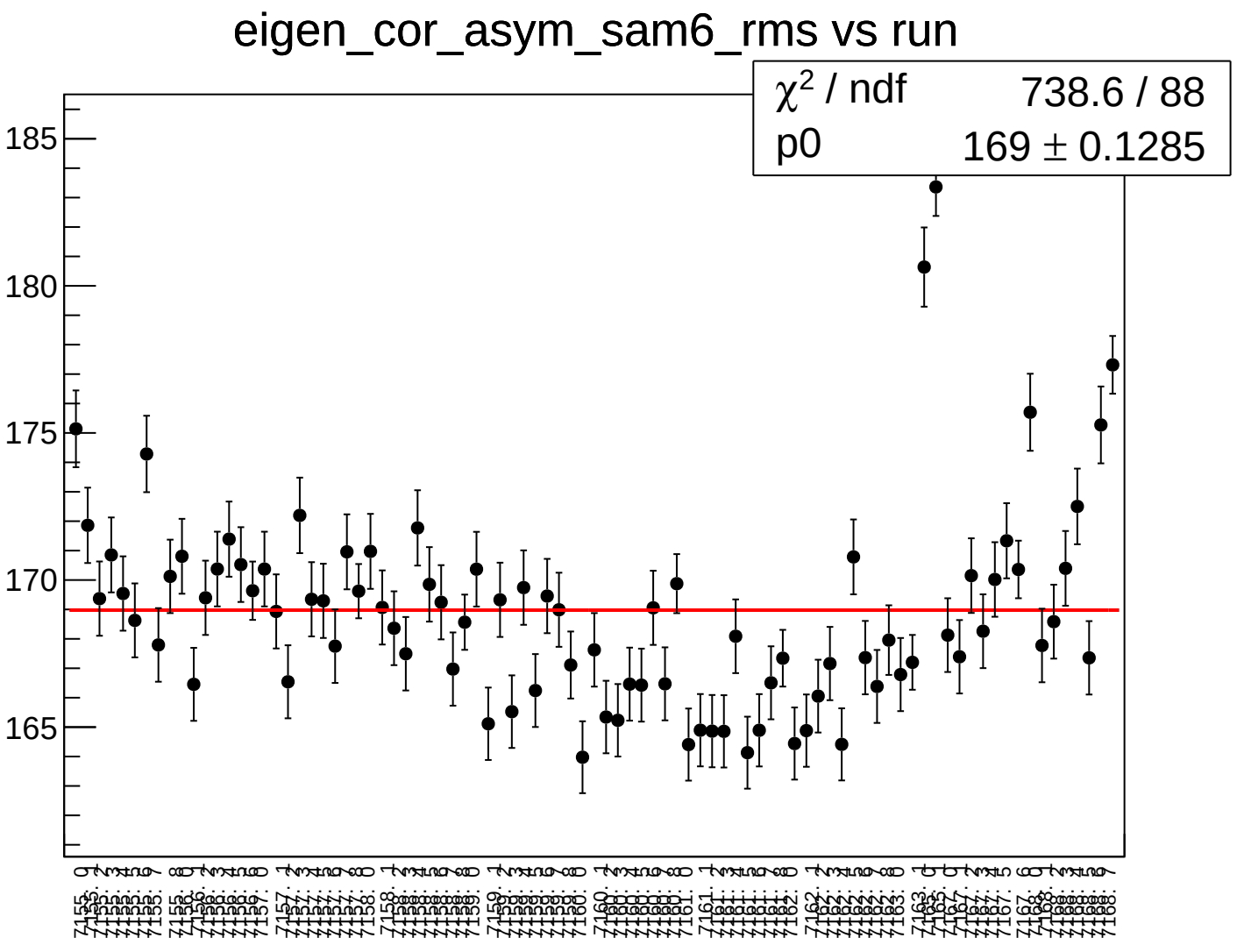

cor_asym_sam6_rms vs run
χ² / ndf 738.6 / 88
p0 169 ± 0.1285
185
180
175
170
165

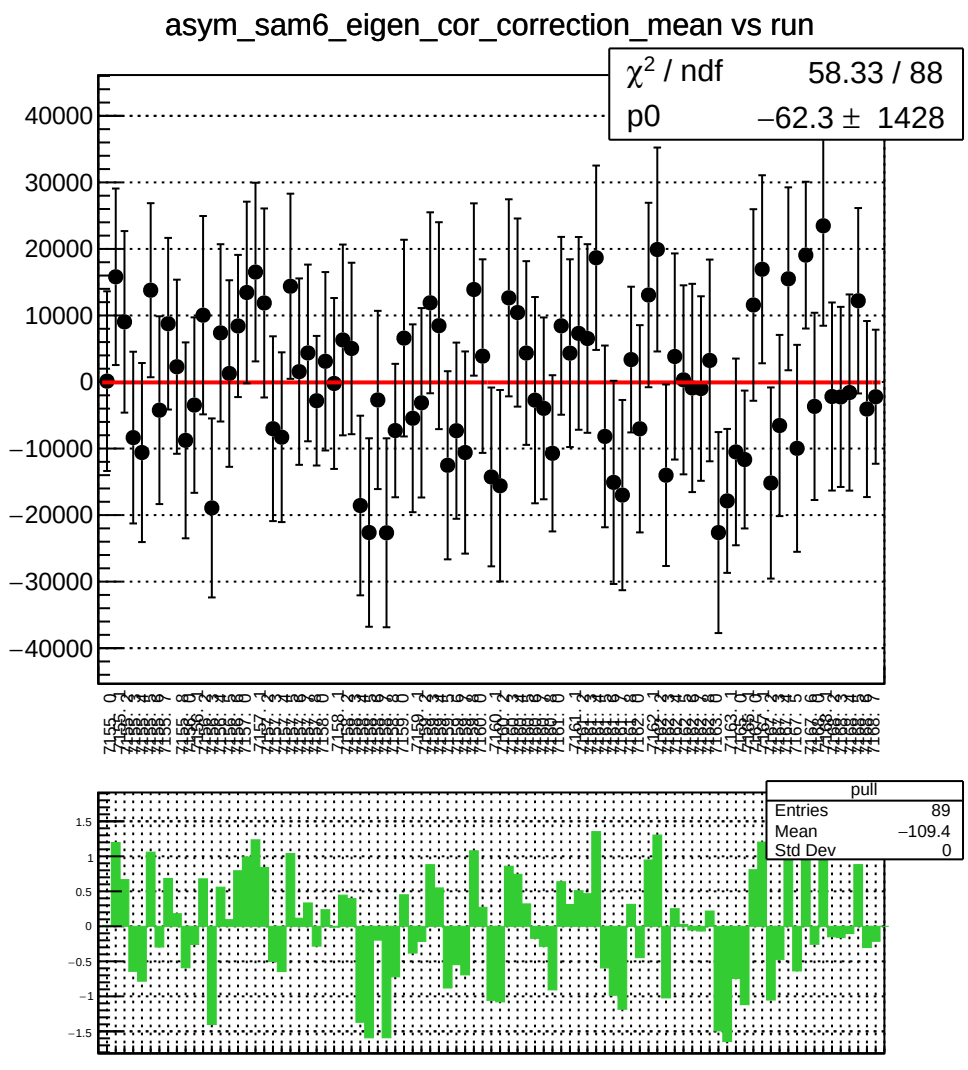

asym_sam6_cor_correction_mean vs run
χ² / ndf 58.33 / 88
p0 −62.3 ± 1428
pull
Entries 89
Mean −109.4
Std Dev 0

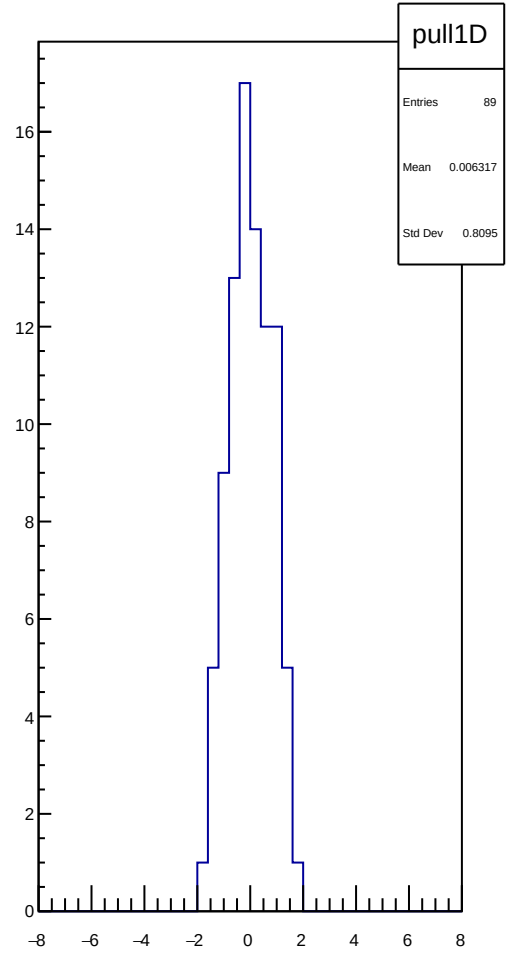

pull1D
Entries 89
Mean 0.006317
Std Dev 0.8095

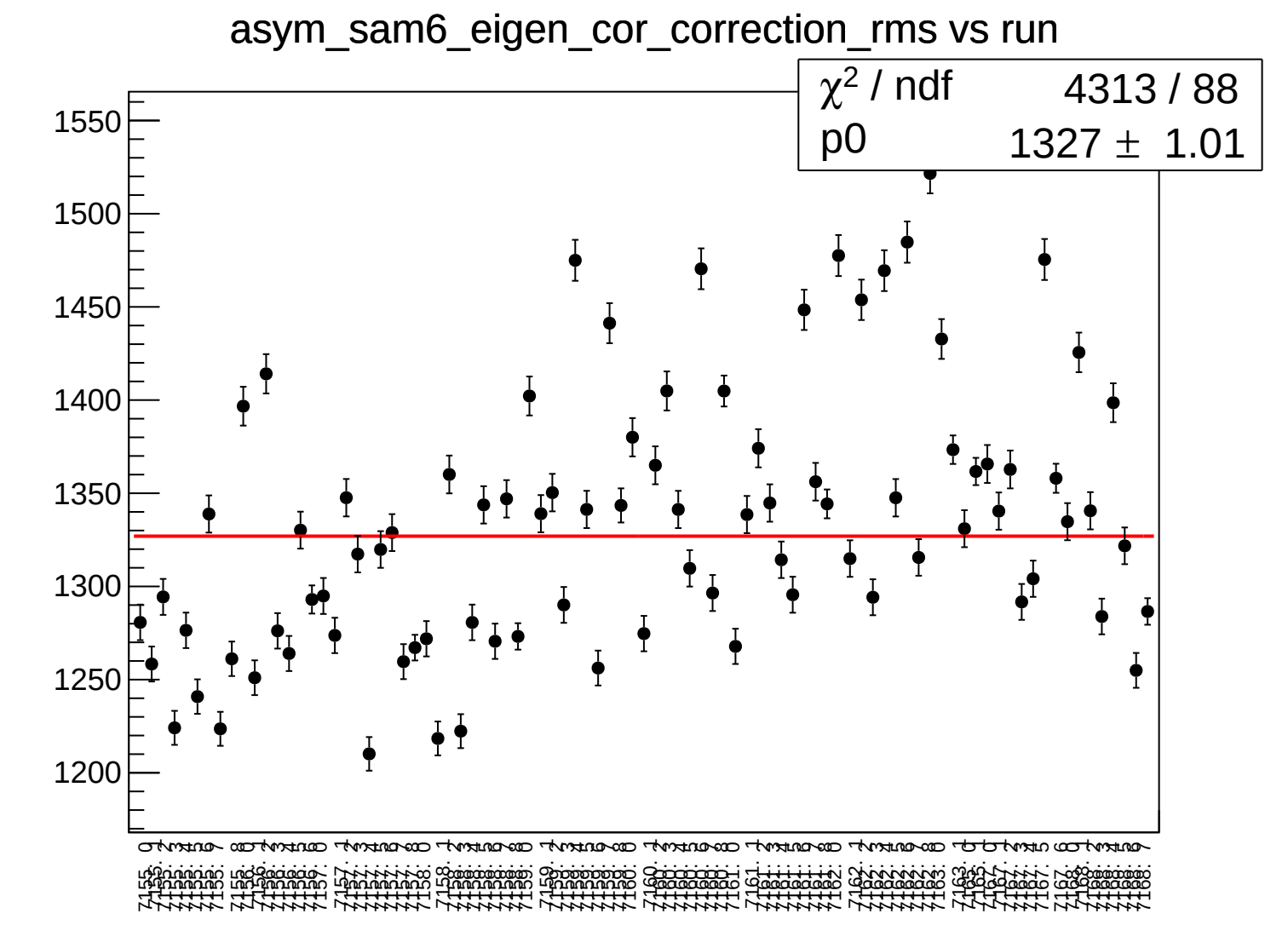

asym_sam6_cor_correction_rms vs run
χ² / ndf 4313 / 88
p0 1327 ± 1.01
1550
1500
1450
1400
1350
1300
1250
1200

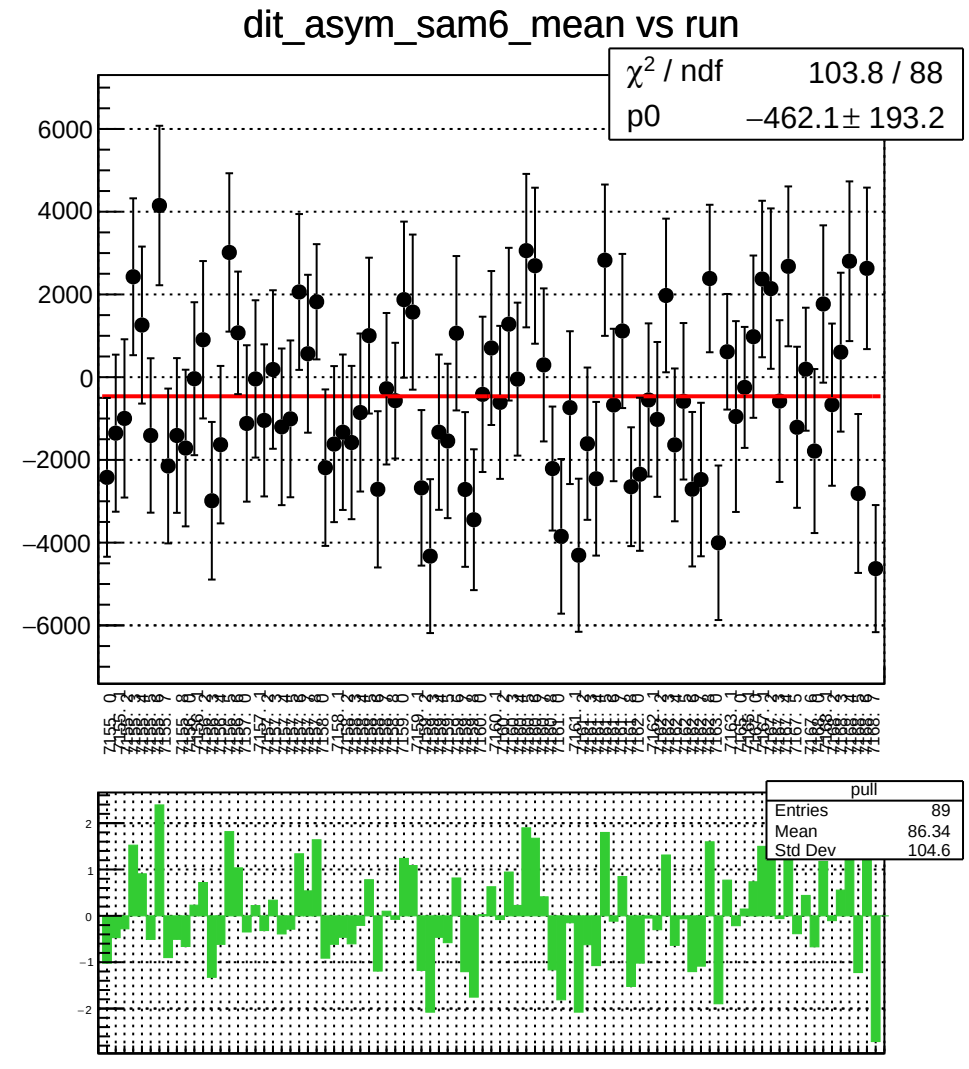

eigen_cor_asym_sam6_mean vs run
χ² / ndf 96.18 / 88
p0 −456 ± 181.7
pull
Entries 89
Mean 74.83
Std Dev 56.95
pull1D
Entries 89
Mean 0.006762
Std Dev 1.04

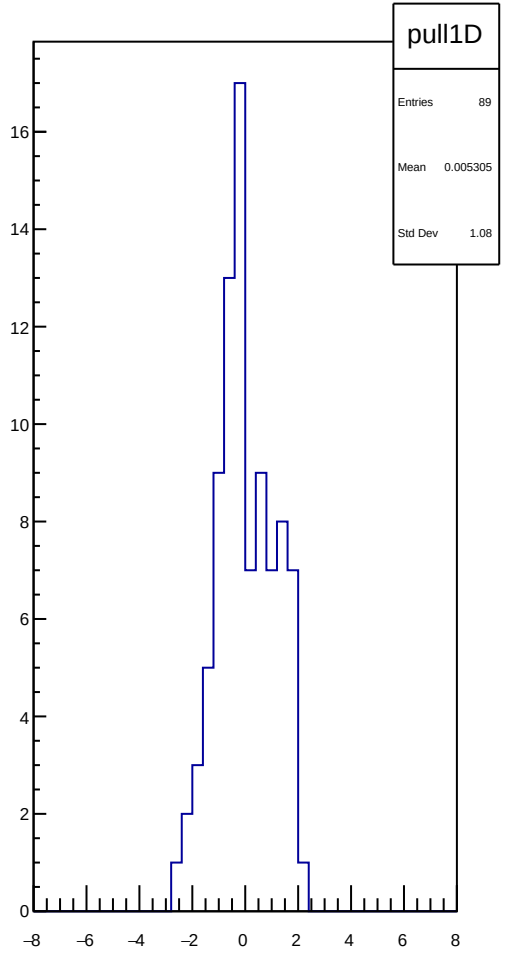

eigen_cor_asym_sam6_rms vs run
χ² / ndf 738.6 / 88
p0 169 ± 0.1285
185
180
175
170
165

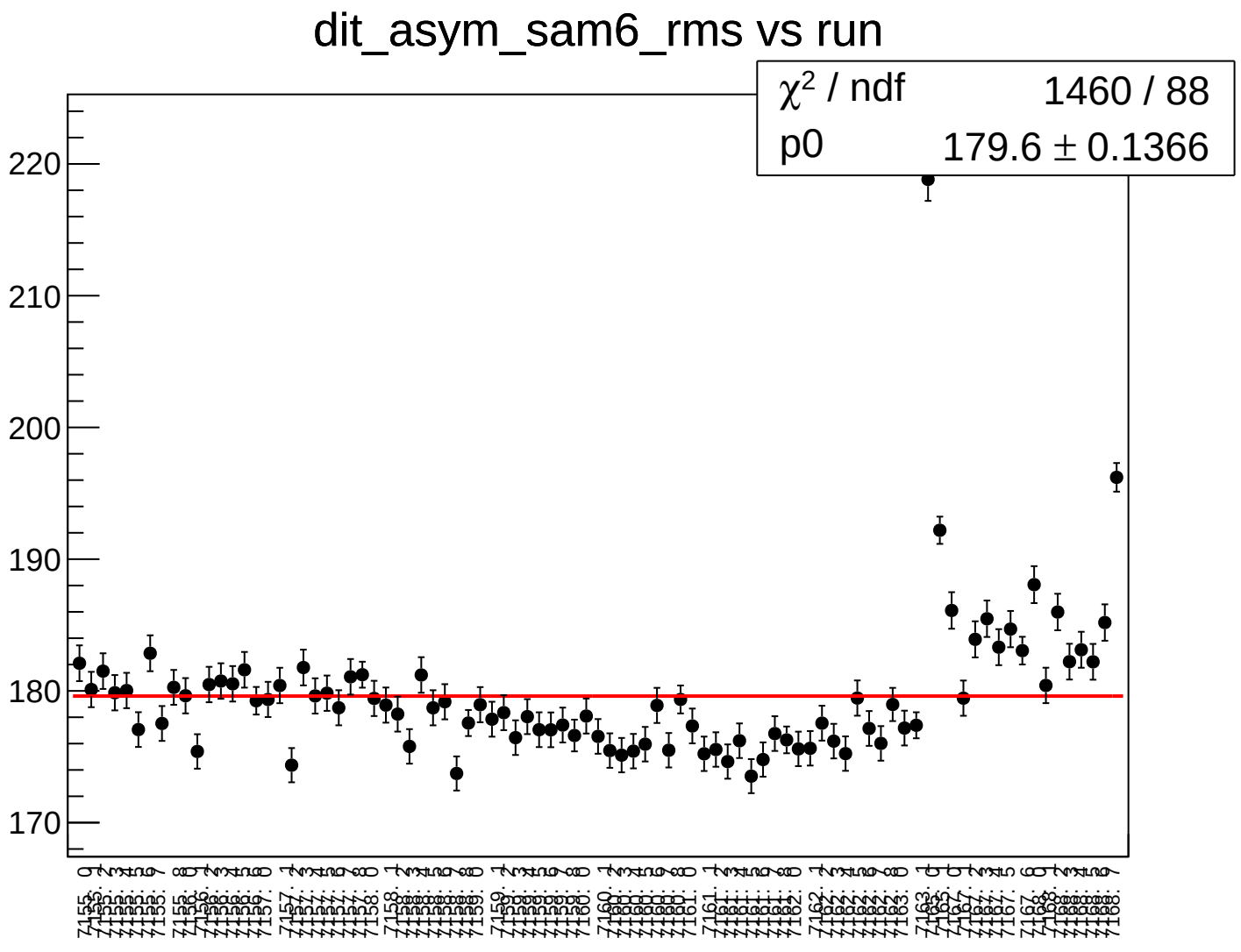

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 58.33 / 88
p0 −62.3 ± 1428
pull
Entries 89
Mean −109.4
Std Dev 0

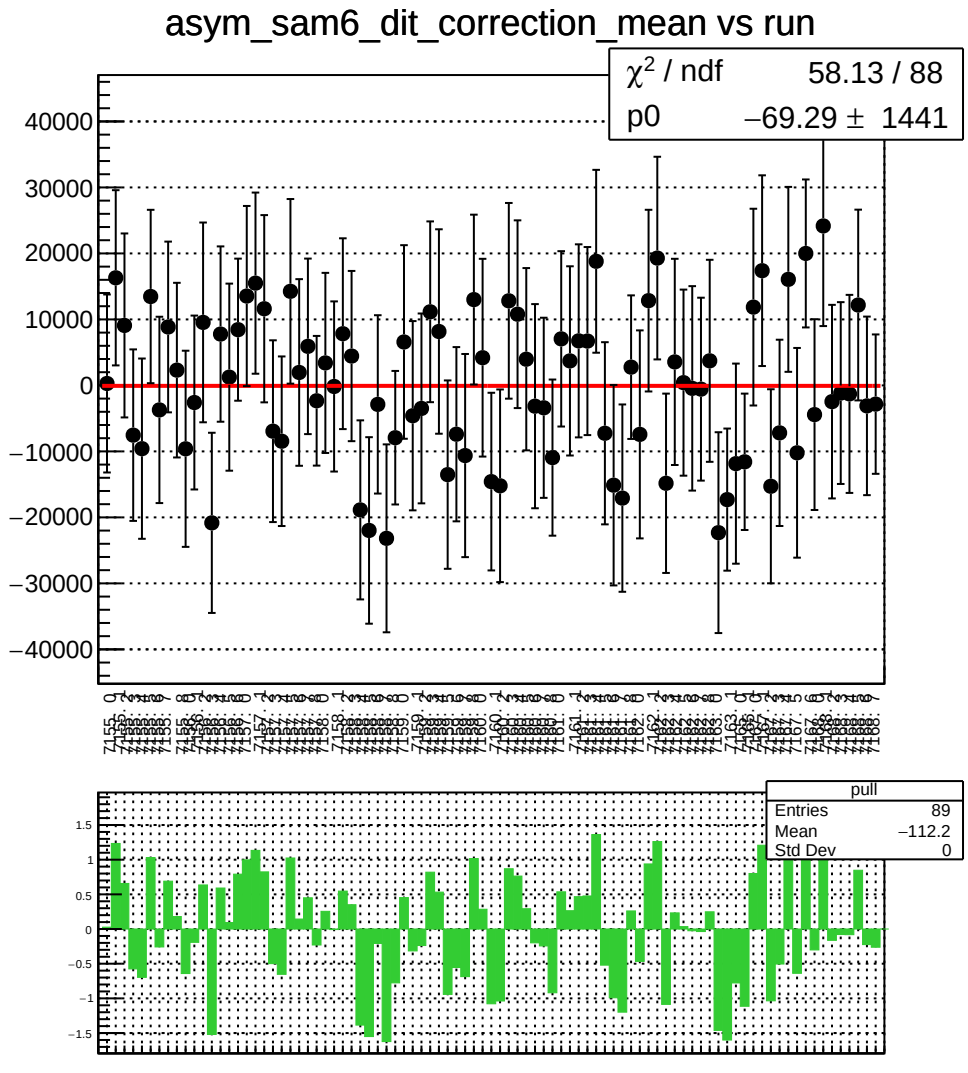

pull1D
Entries 89
Mean 0.006317
Std Dev 0.8095

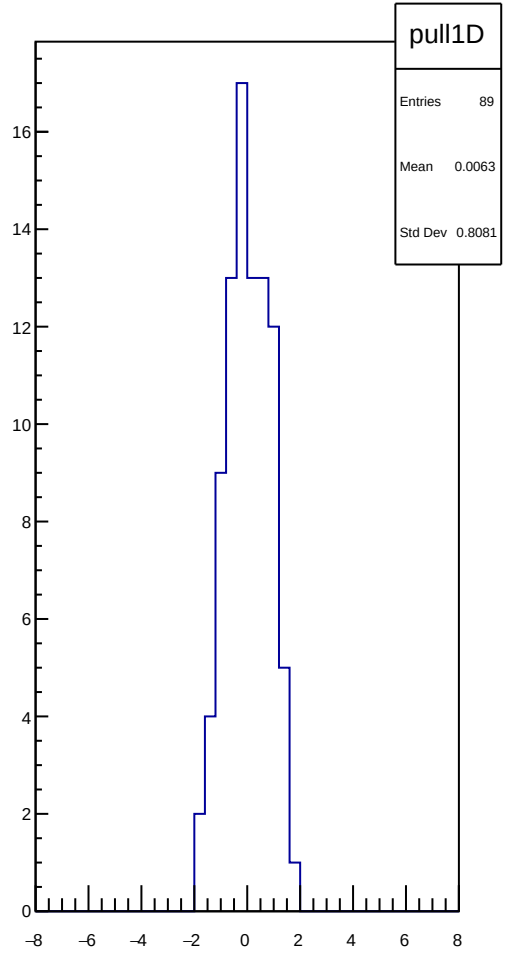

asym_sam6_eigen_cor_correction_rms vs run
χ² / ndf 4313 / 88
p0 1327 ± 1.01
1550
1500
1450
1400
1350
1300
1250
1200

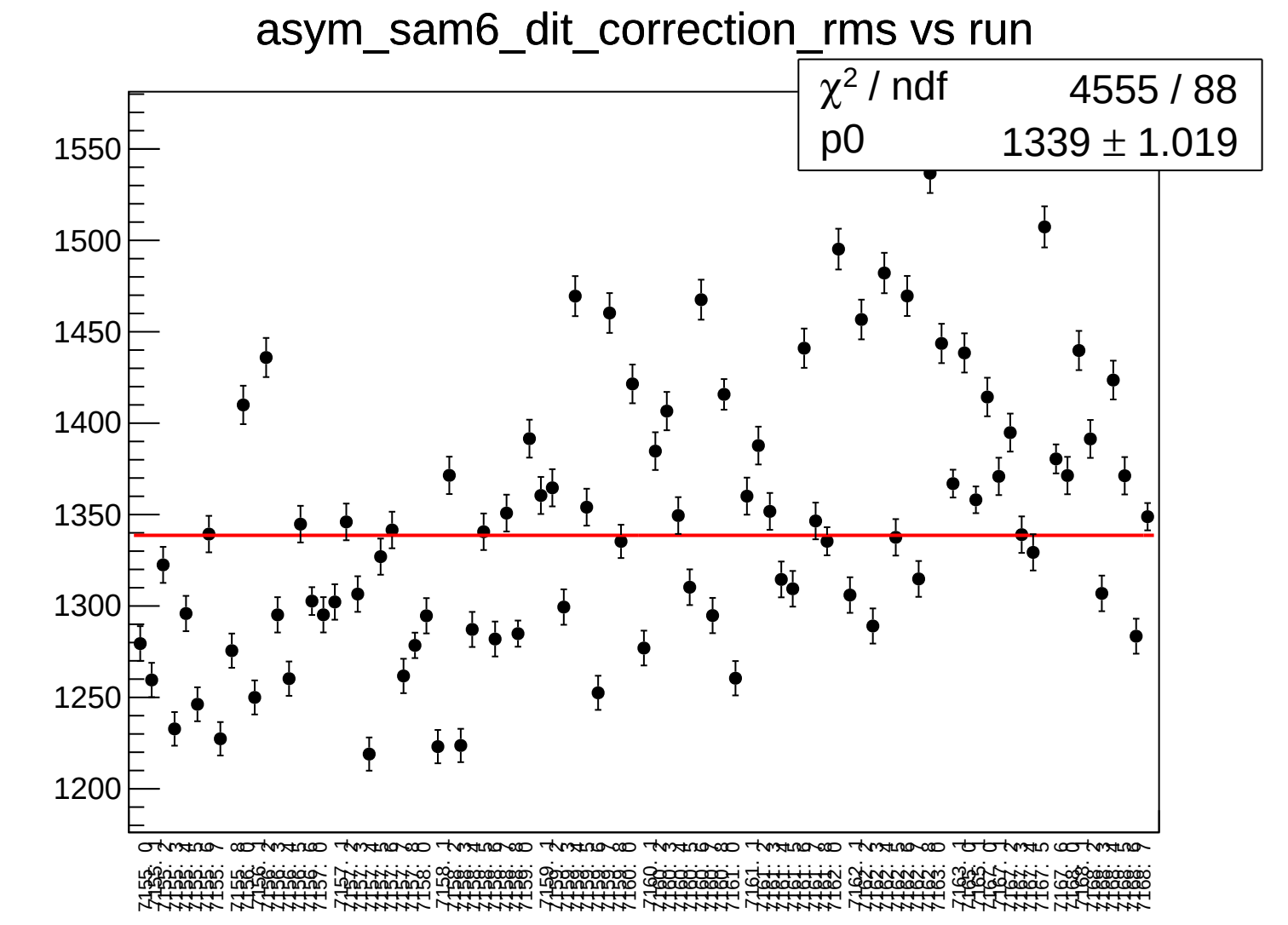

dit_asym_sam6_mean vs run
χ² / ndf 103.8 / 88
p0 −462.1± 193.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean 86.34
Std Dev 104.6
2
1
0
−1
−2

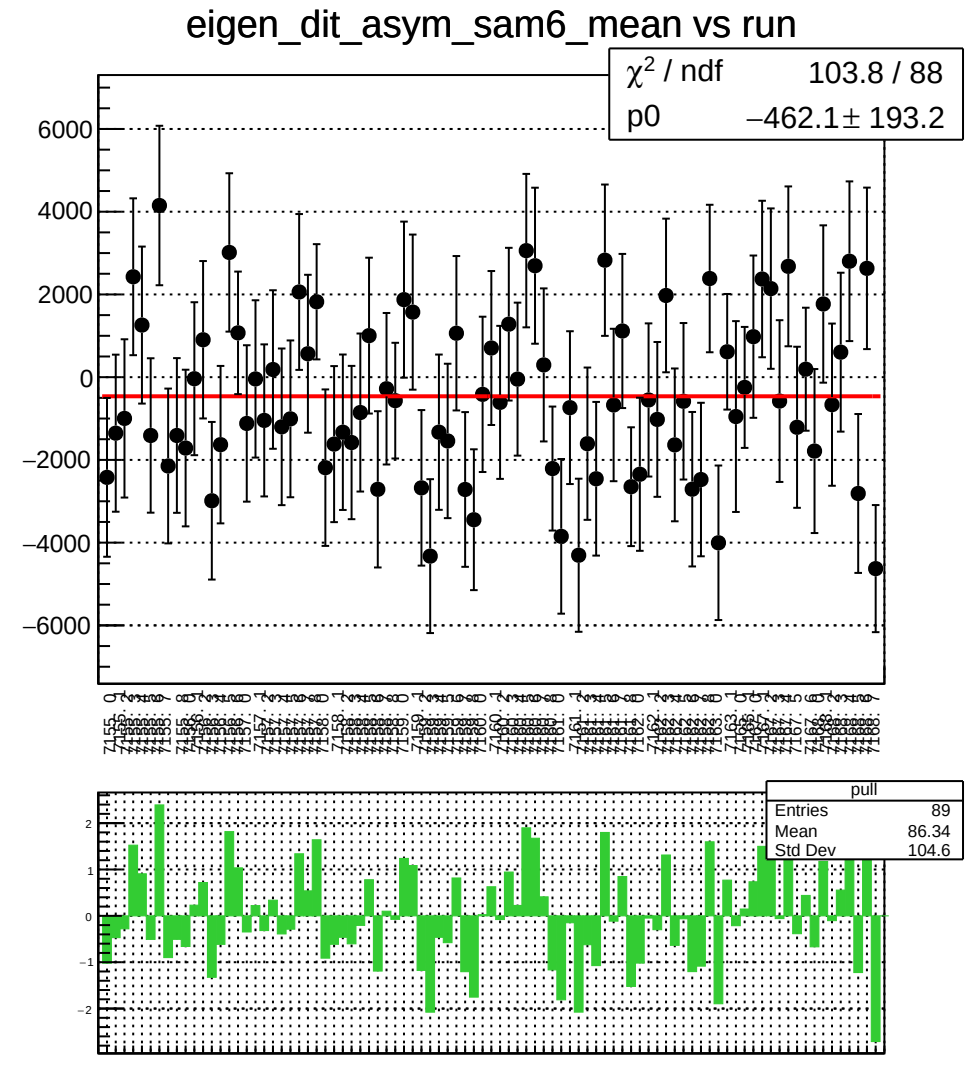

pull1D
Entries 89
Mean 0.005305
Std Dev 1.08
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

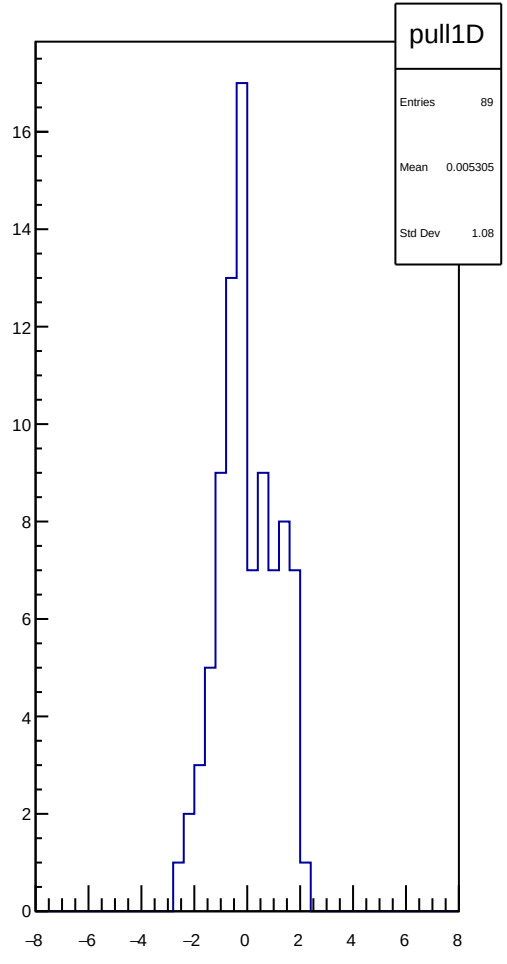

dit_asym_sam6_rms vs run
χ² / ndf 1460 / 88
p0 179.6 ± 0.1366
220
210
200
190
180
170

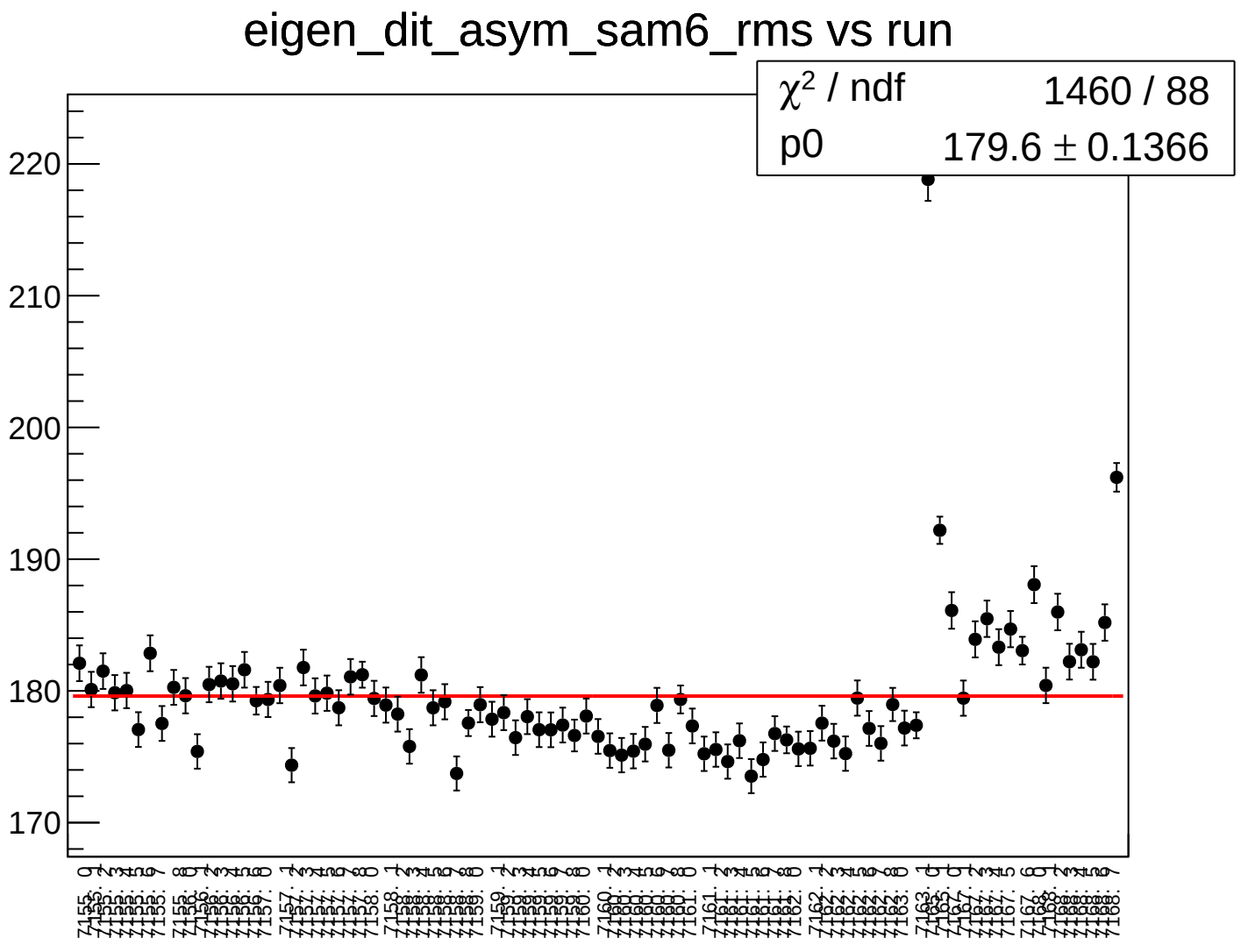

asym_sam6_dit_correction_mean vs run
χ² / ndf 58.13 / 88
p0 −69.29 ± 1441
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −112.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

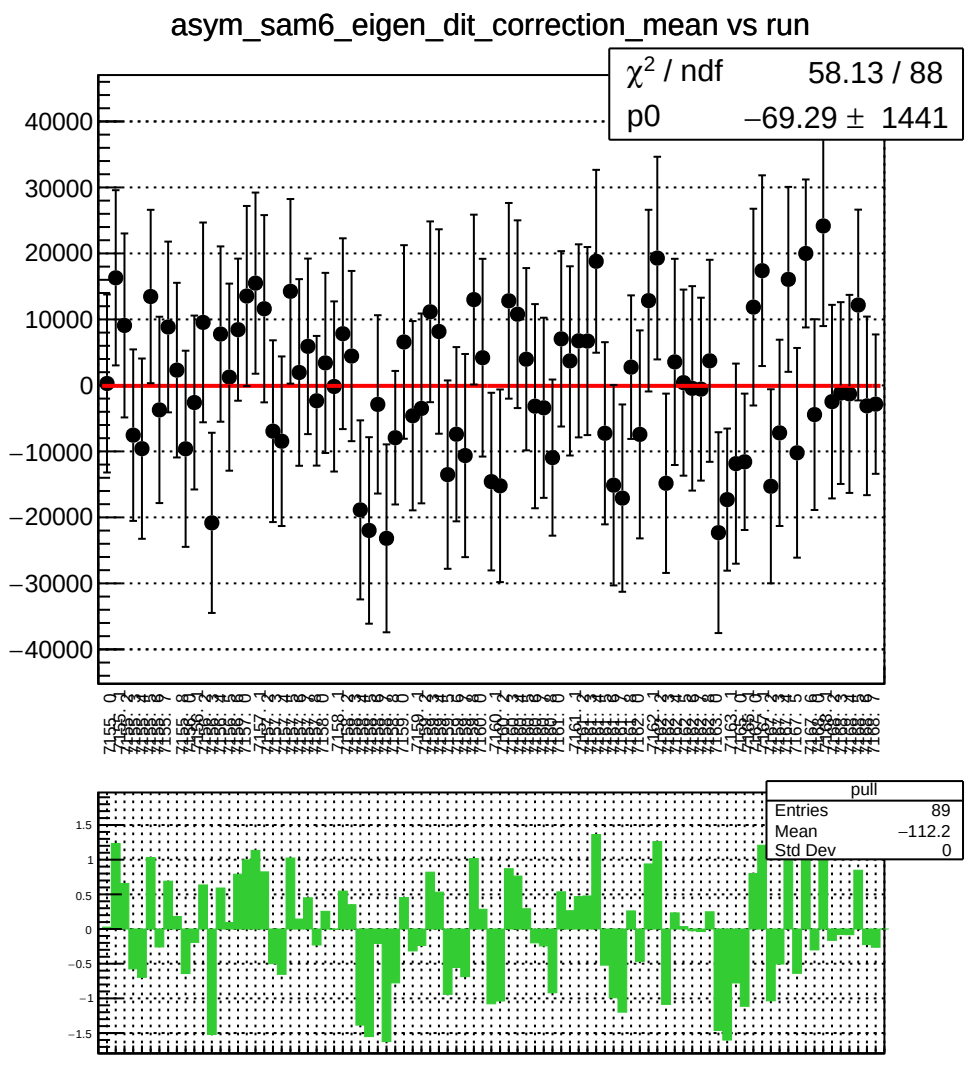

pull1D
Entries 89
Mean 0.0063
Std Dev 0.8081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

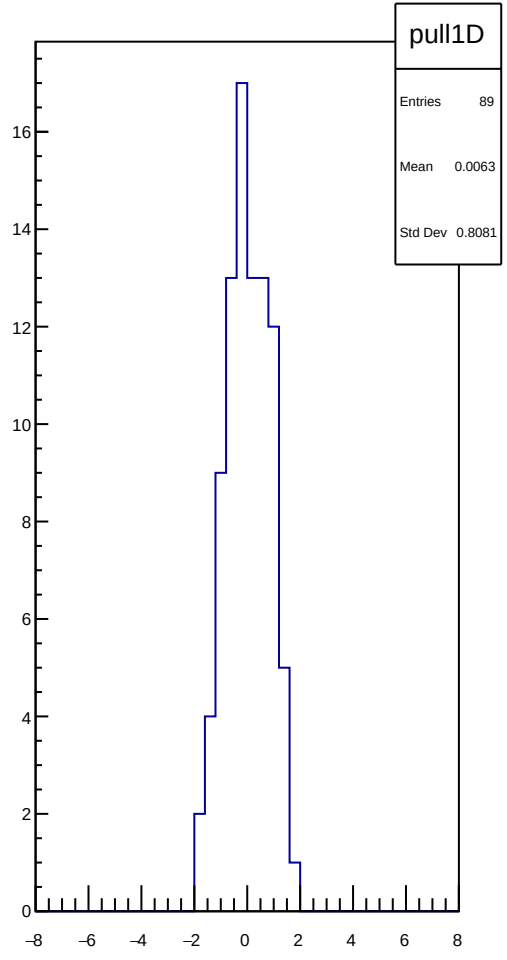

asym_sam6_dit_correction_rms vs run
χ² / ndf 4555 / 88
p0 1339 ± 1.019
1550
1500
1450
1400
1350
1300
1250
1200

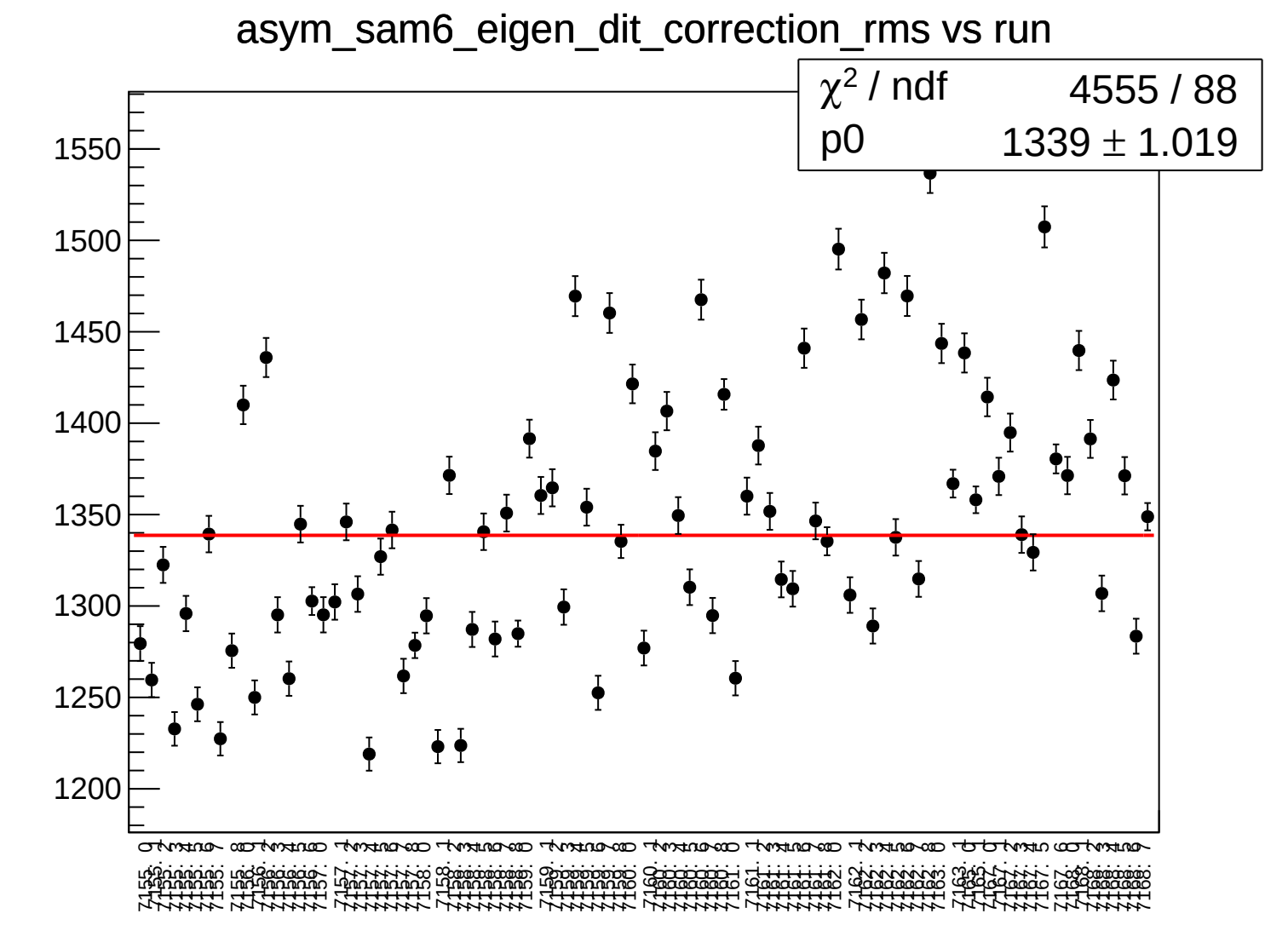

eigen_dit_asym_sam6_mean vs run
χ² / ndf 103.8 / 88
p0 −462.1 ± 193.2
pull
Entries 89
Mean 86.34
Std Dev 104.6

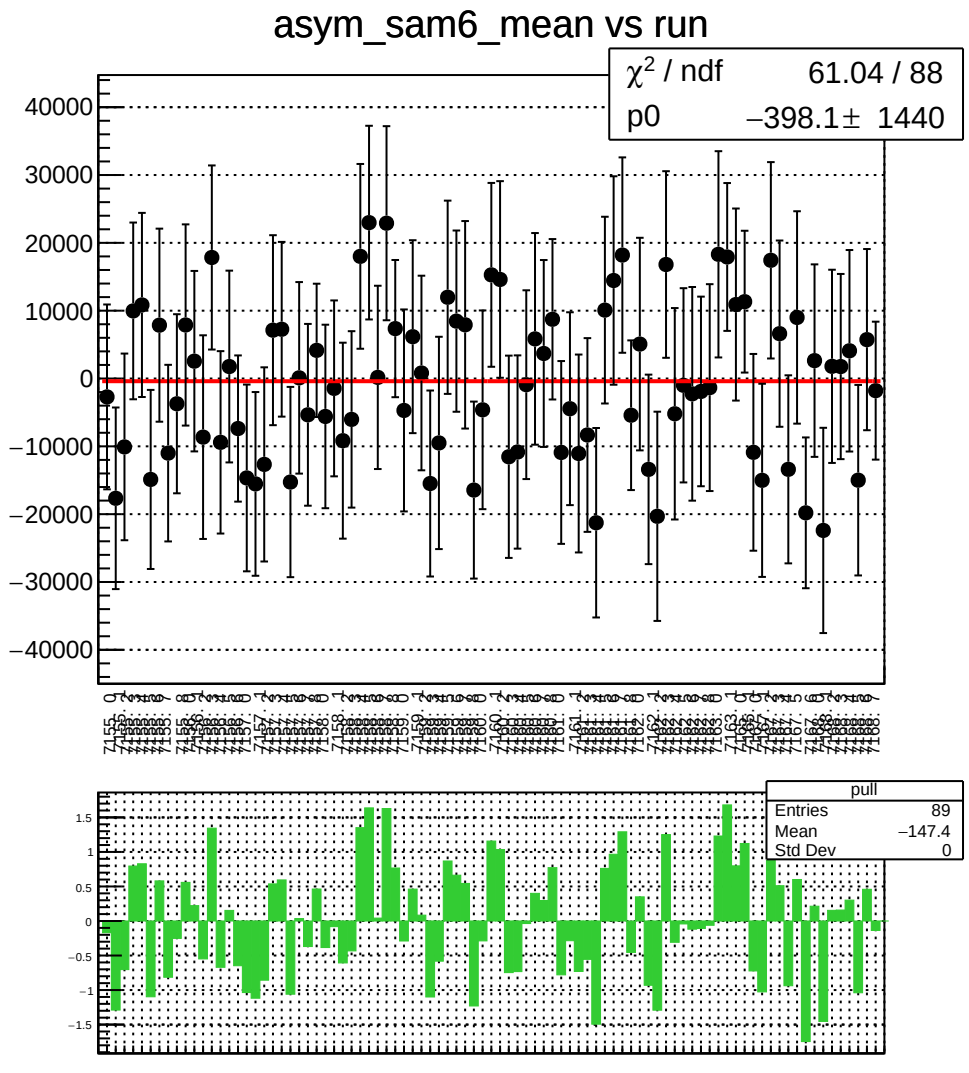

pull1D
Entries 89
Mean 0.005305
Std Dev 1.08

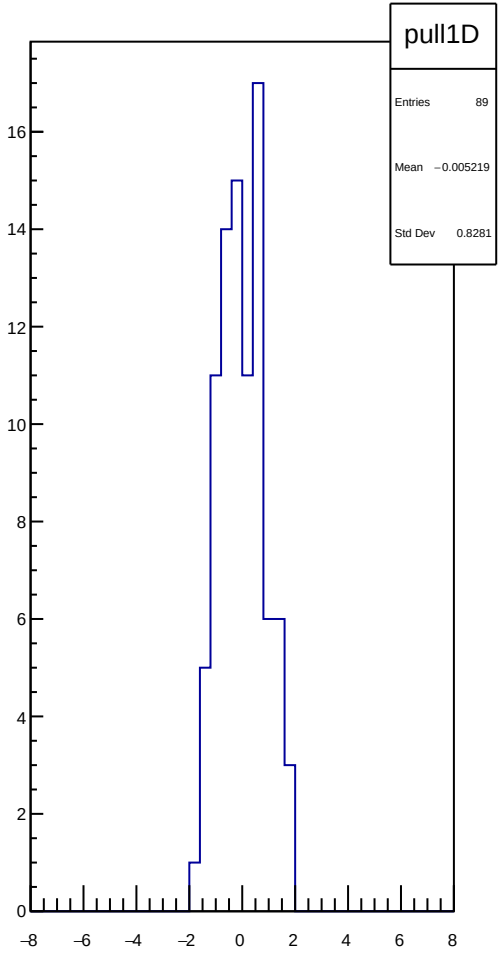

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1460 / 88
p0 179.6 ± 0.1366
220
210
200
190
180
170

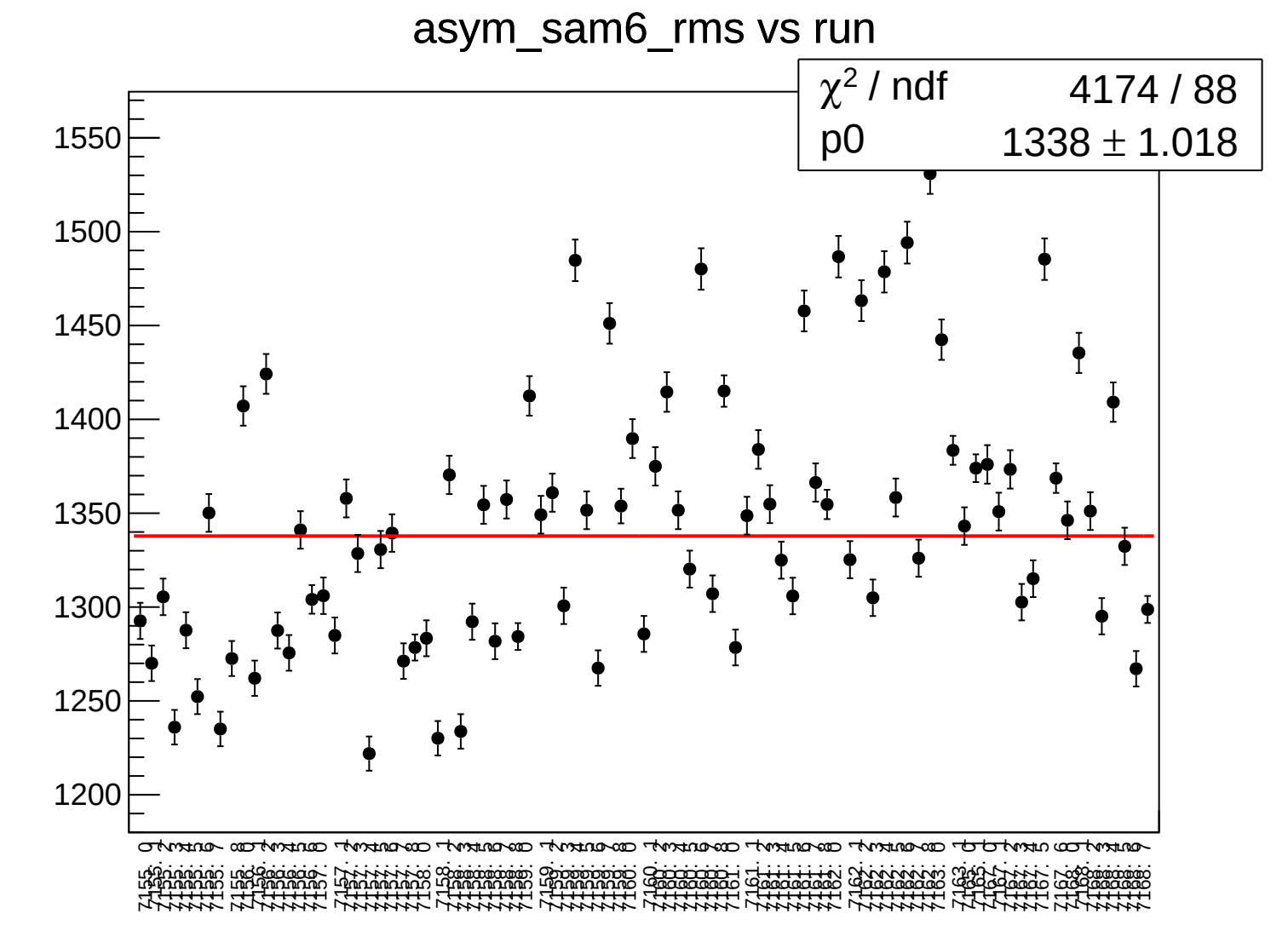

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 58.13 / 88
p0 −69.29 ± 1441
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −112.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

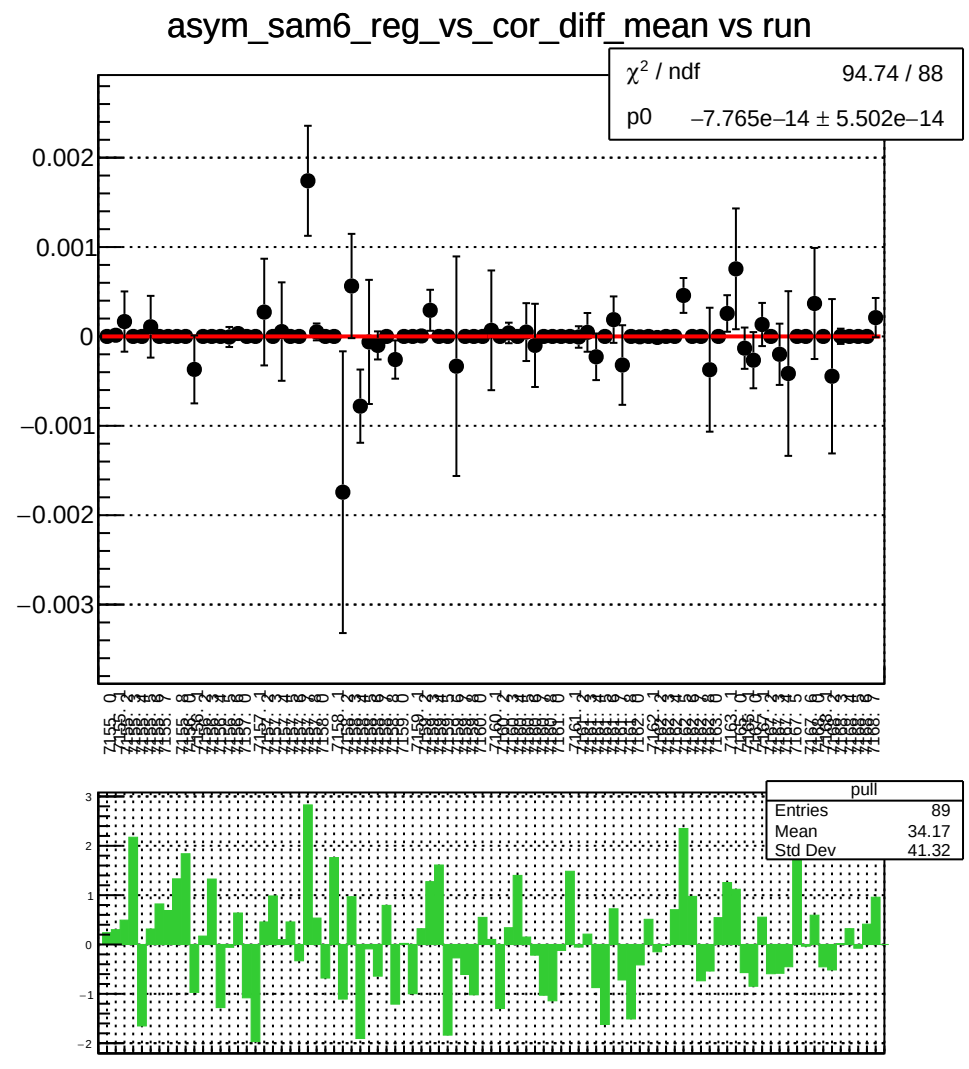

pull1D
Entries 89
Mean 0.0063
Std Dev 0.8081
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

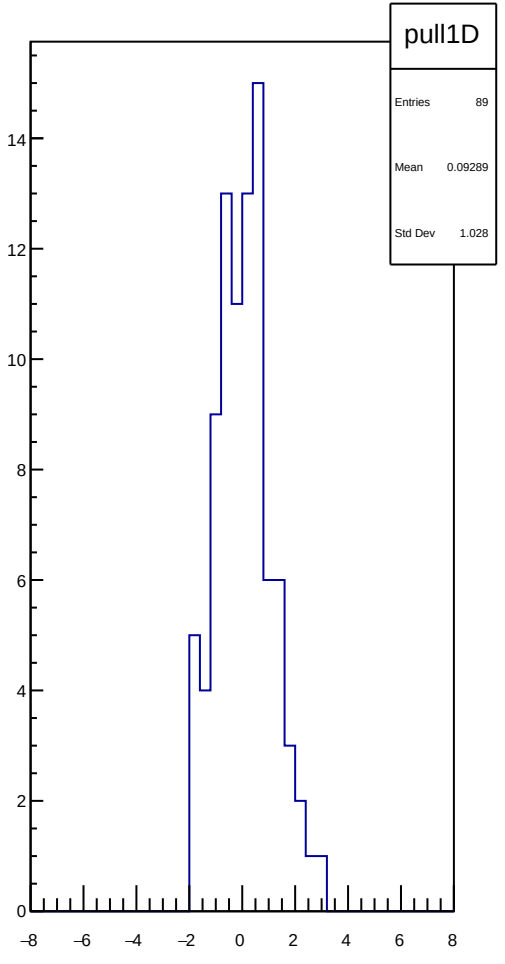

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 4555 / 88
p0 1339 ± 1.019
1550
1500
1450
1400
1350
1300
1250
1200

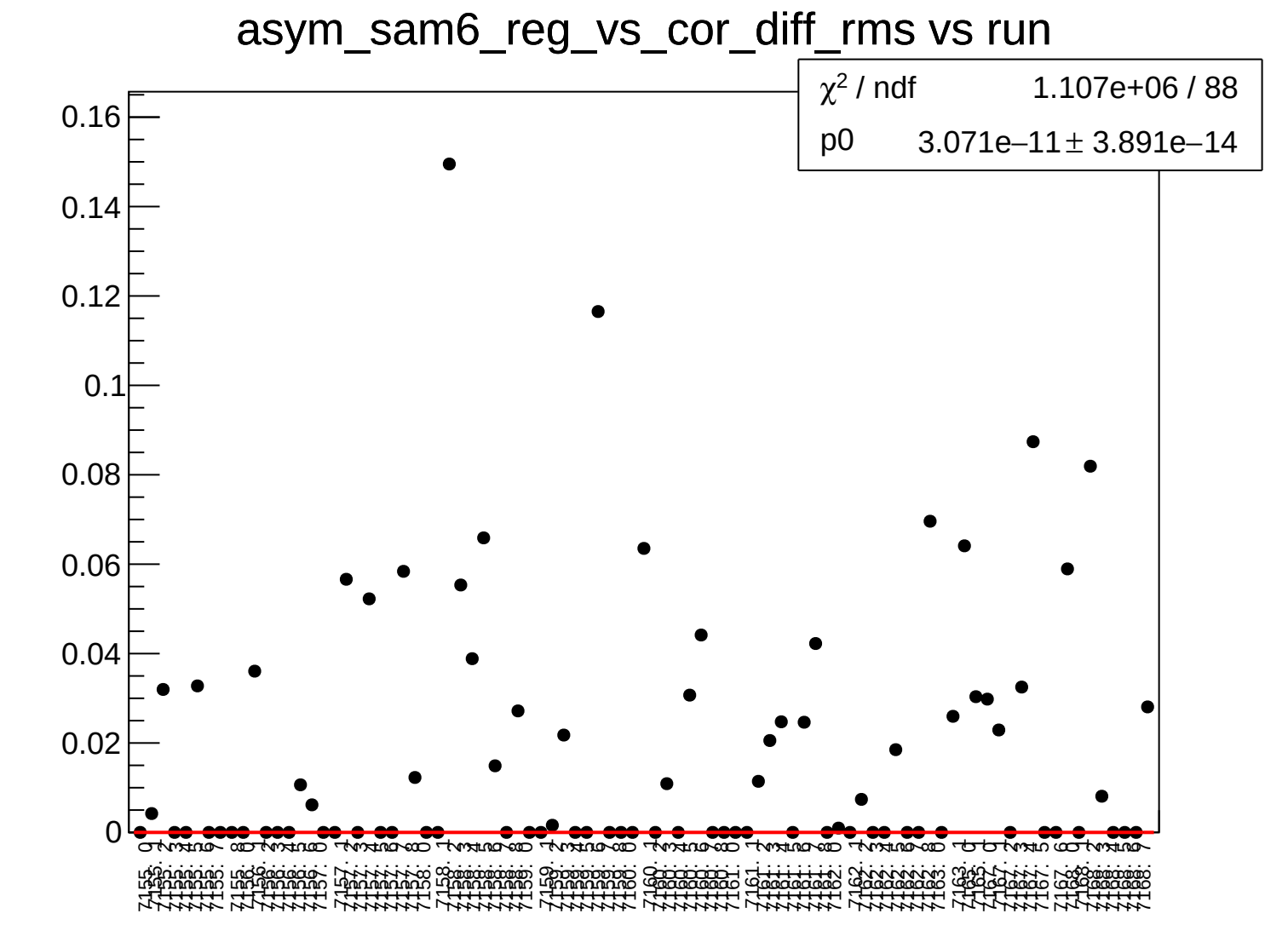

asym_sam6_mean vs run
χ² / ndf 61.04 / 88
p0 −398.1± 1440
pull
Entries 89
Mean −147.4
Std Dev 0

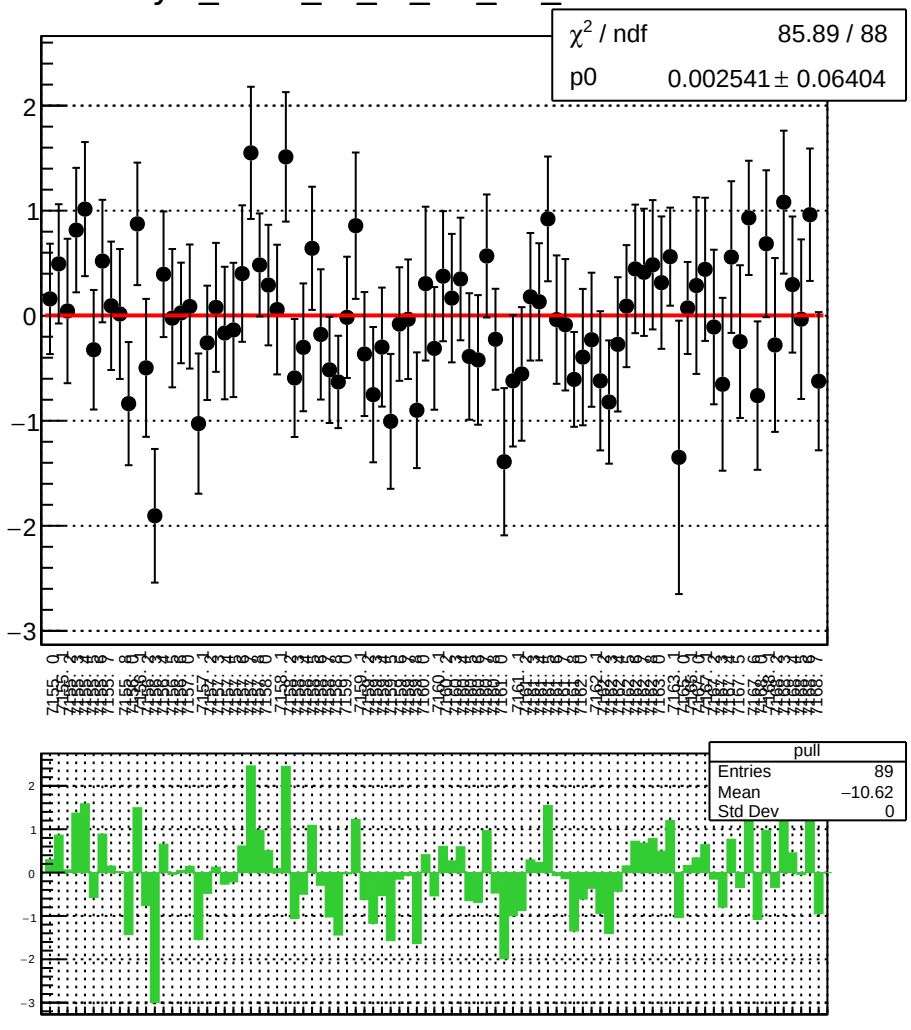

pull1D
Entries 89
Mean −0.005219
Std Dev 0.8281

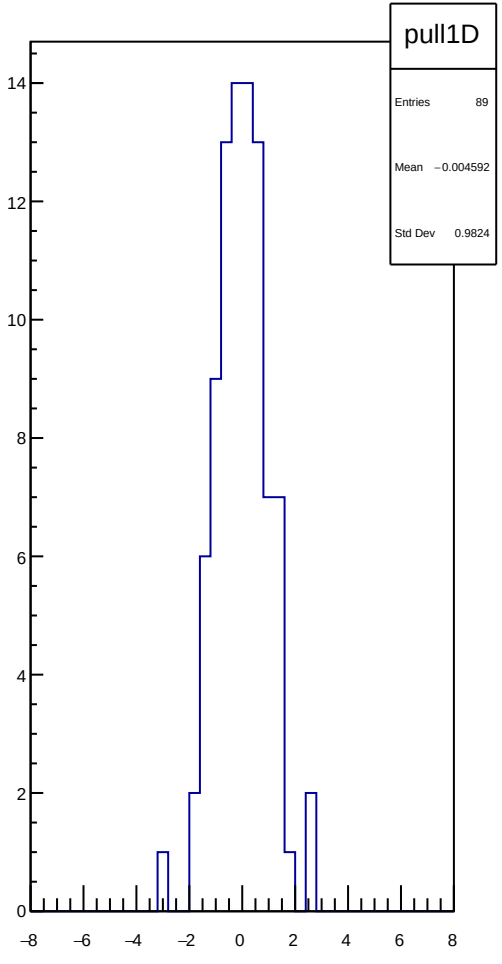

asym_sam6_rms vs run
χ² / ndf 4174 / 88
p0 1338 ± 1.018
1550
1500
1450
1400
1350
1300
1250
1200

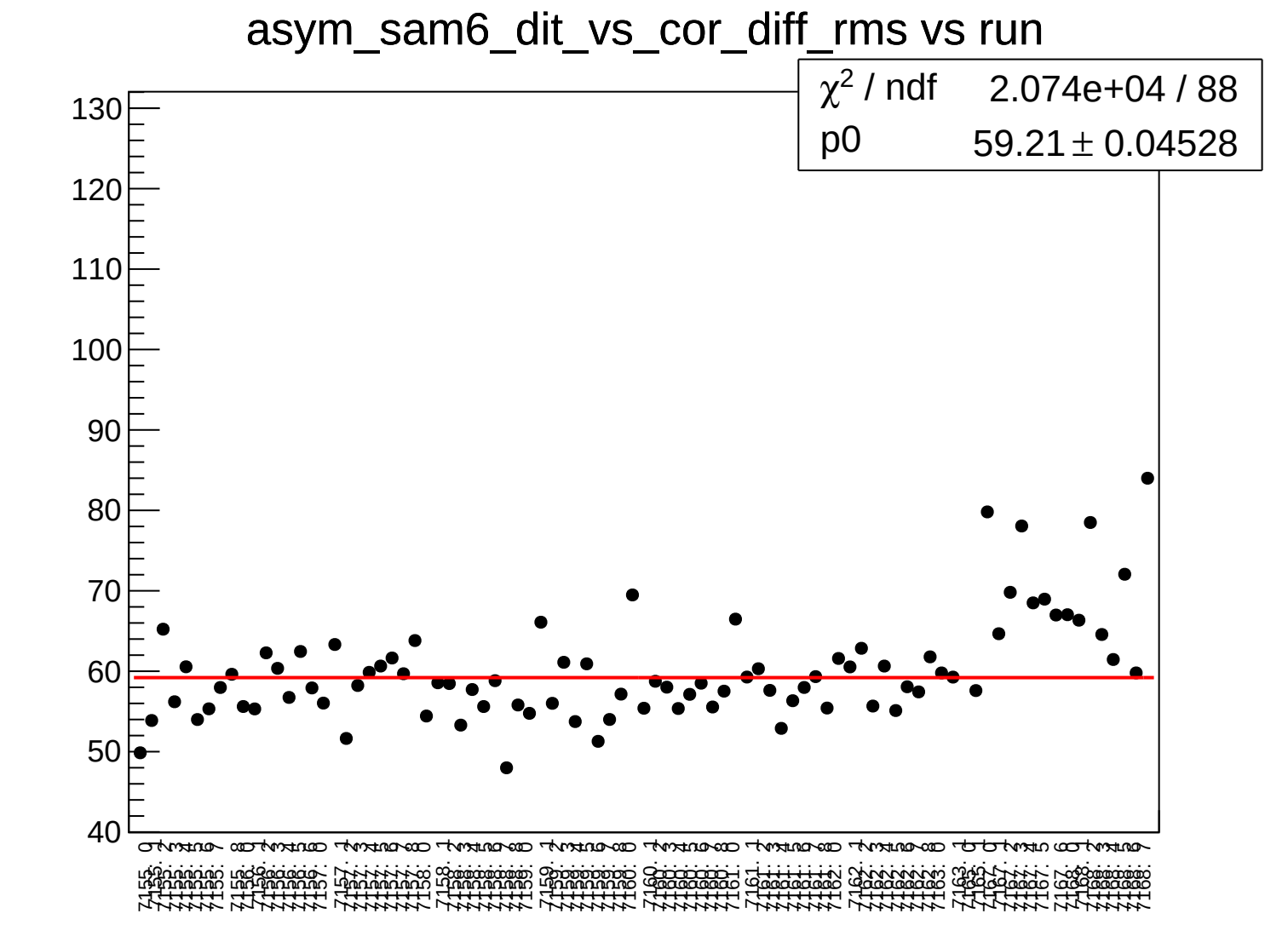

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 94.74 / 88
p0 −7.765e−14 ± 5.502e−14
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean 34.17
Std Dev 41.32
3
2
1
0
−1
−2

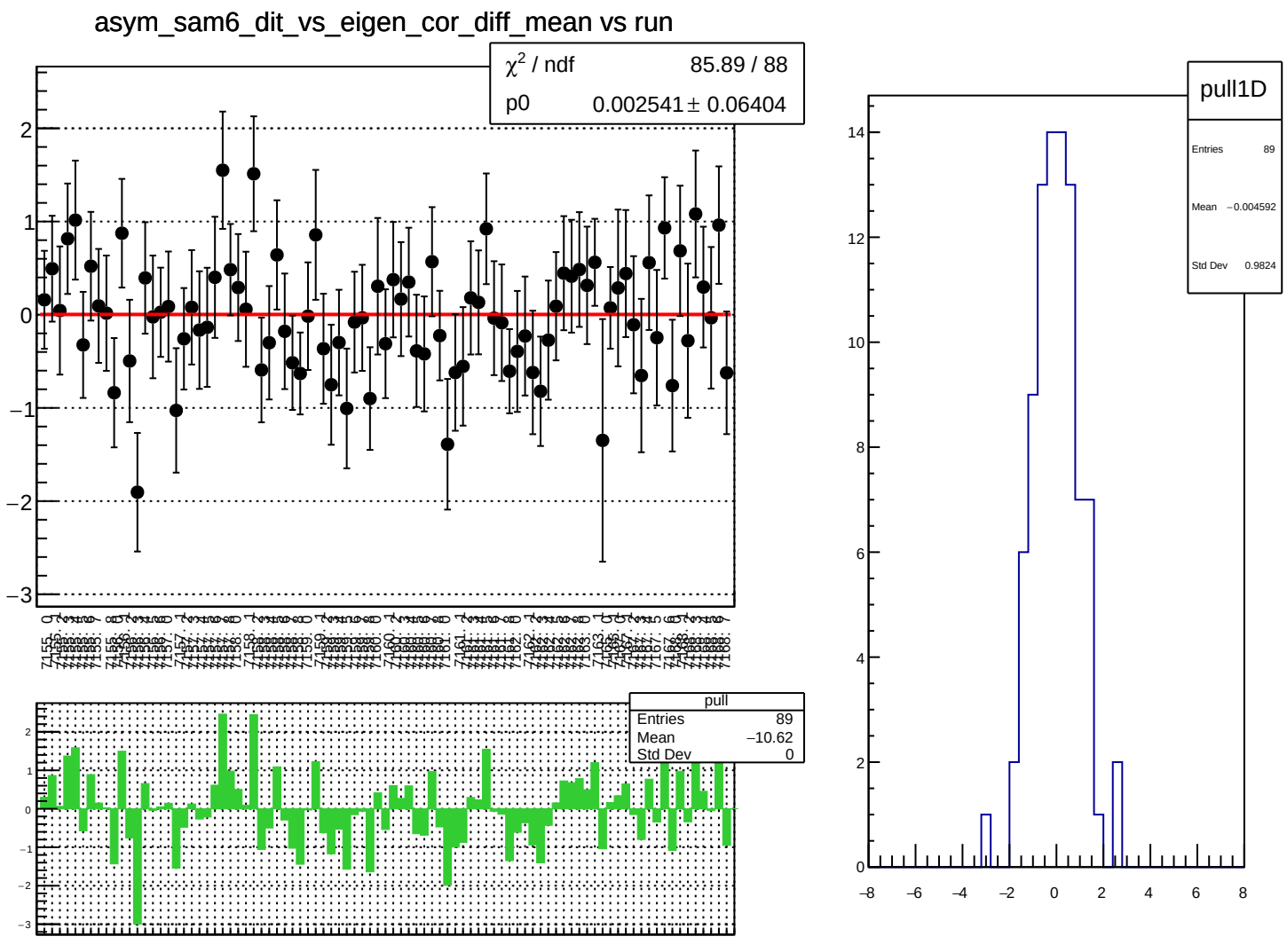

pull1D
Entries 89
Mean 0.09289
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

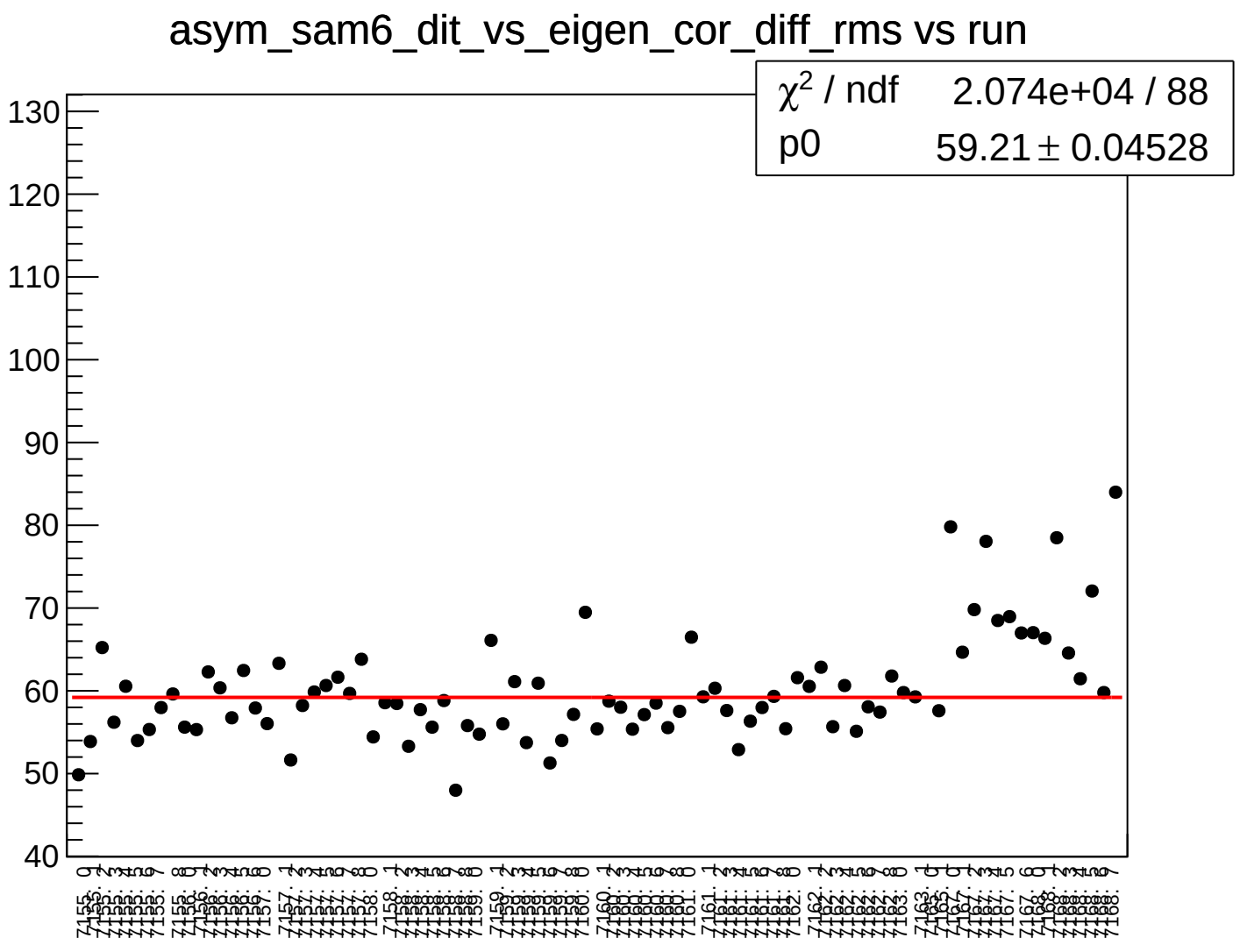

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.107e+06 / 88
p0 3.071e−11 ± 3.891e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

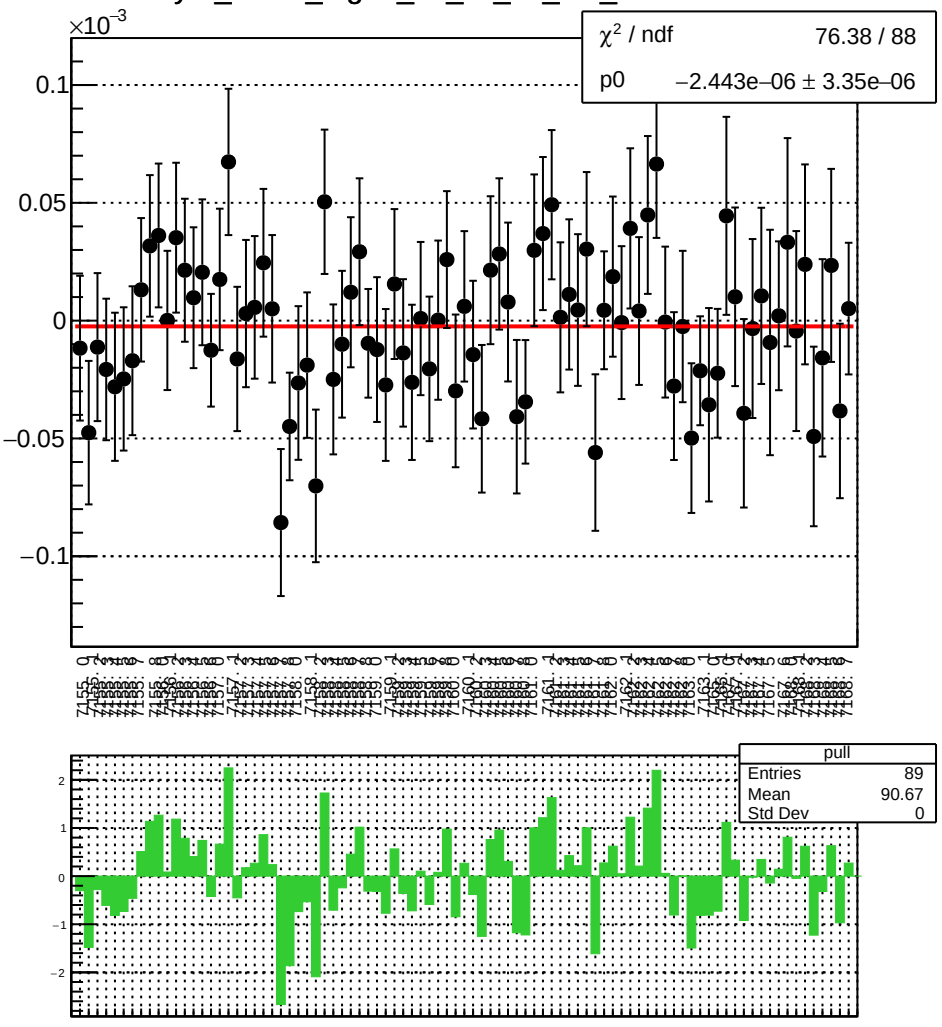

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 0.002541 ± 0.06404
pull
Entries 89
Mean −10.62
Std Dev 0

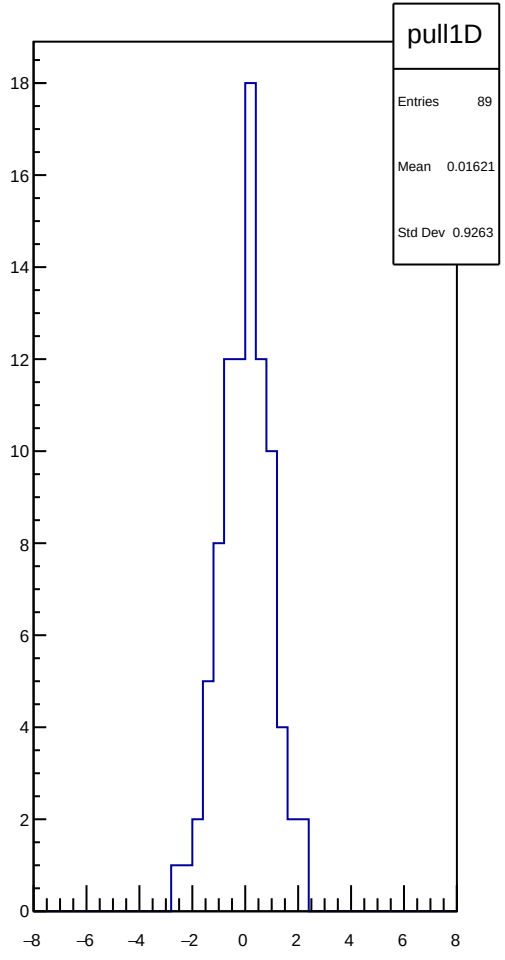

pull1D
Entries 89
Mean −0.004592
Std Dev 0.9824

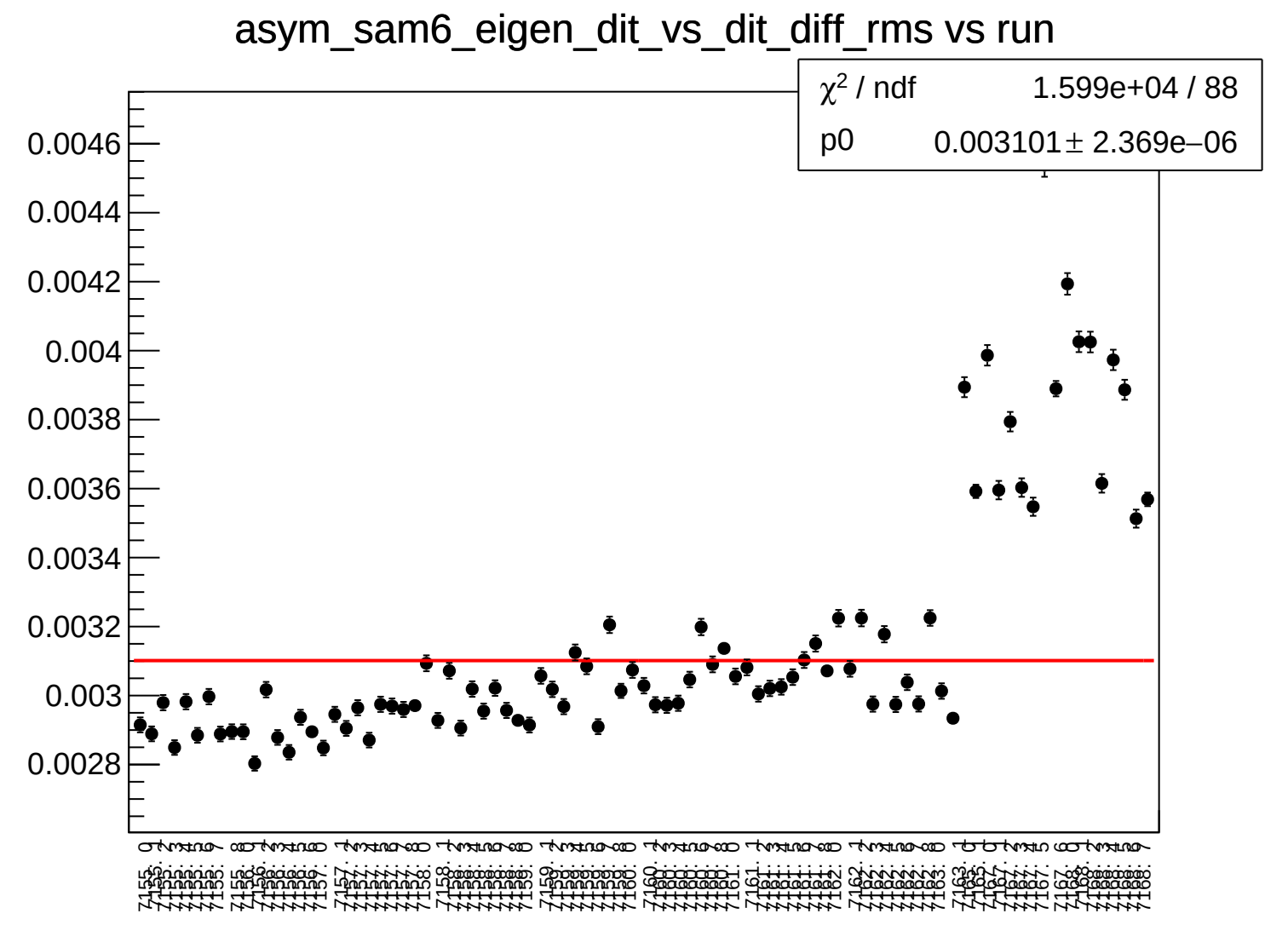

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 2.074e+04 / 88
p0 59.21 ± 0.04528
130
120
110
100
90
80
70
60
50
40

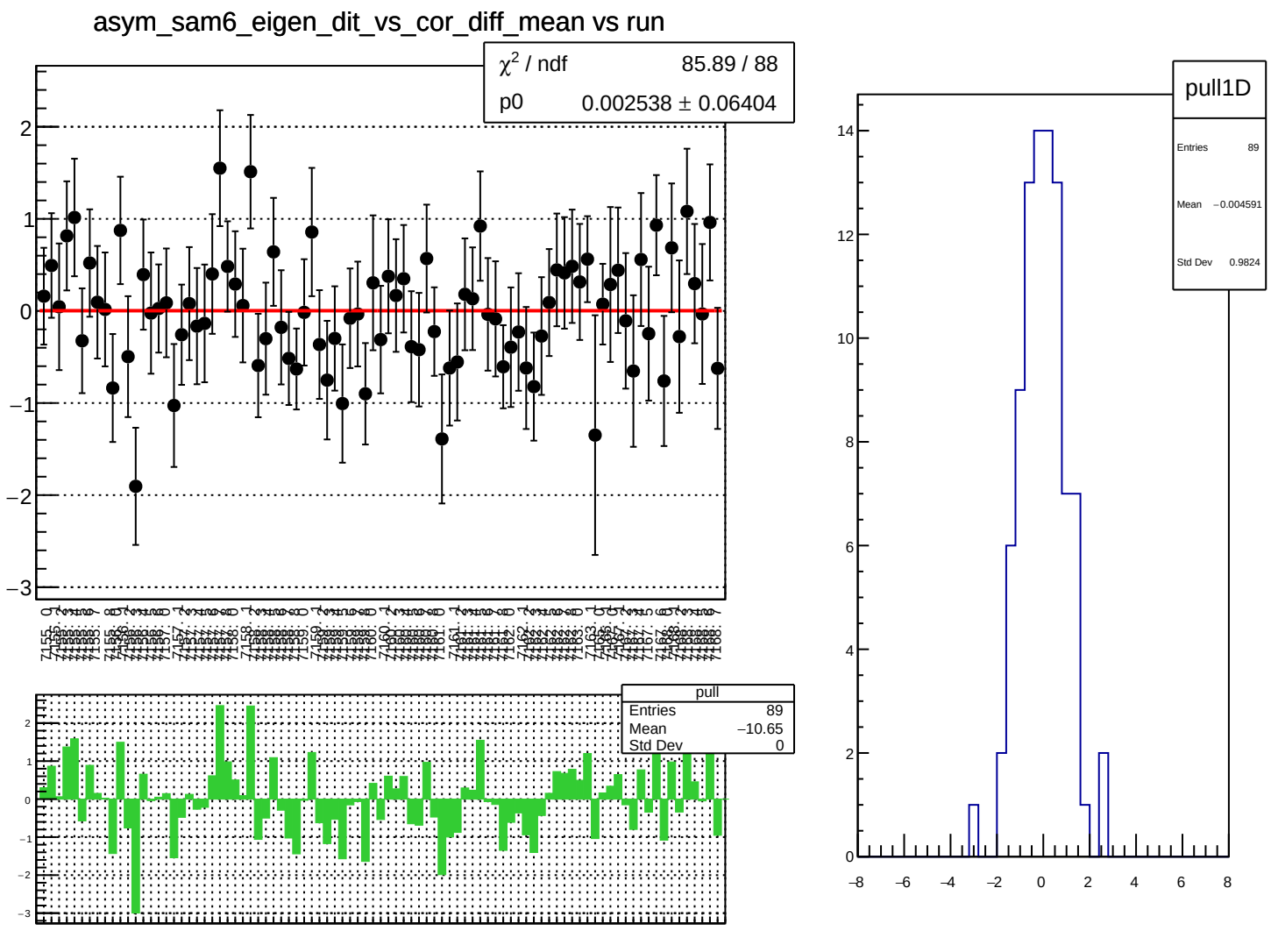

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 0.002541 ± 0.06404
pull
Entries 89
Mean −10.62
Std Dev 0
pull1D
Entries 89
Mean −0.004592
Std Dev 0.9824

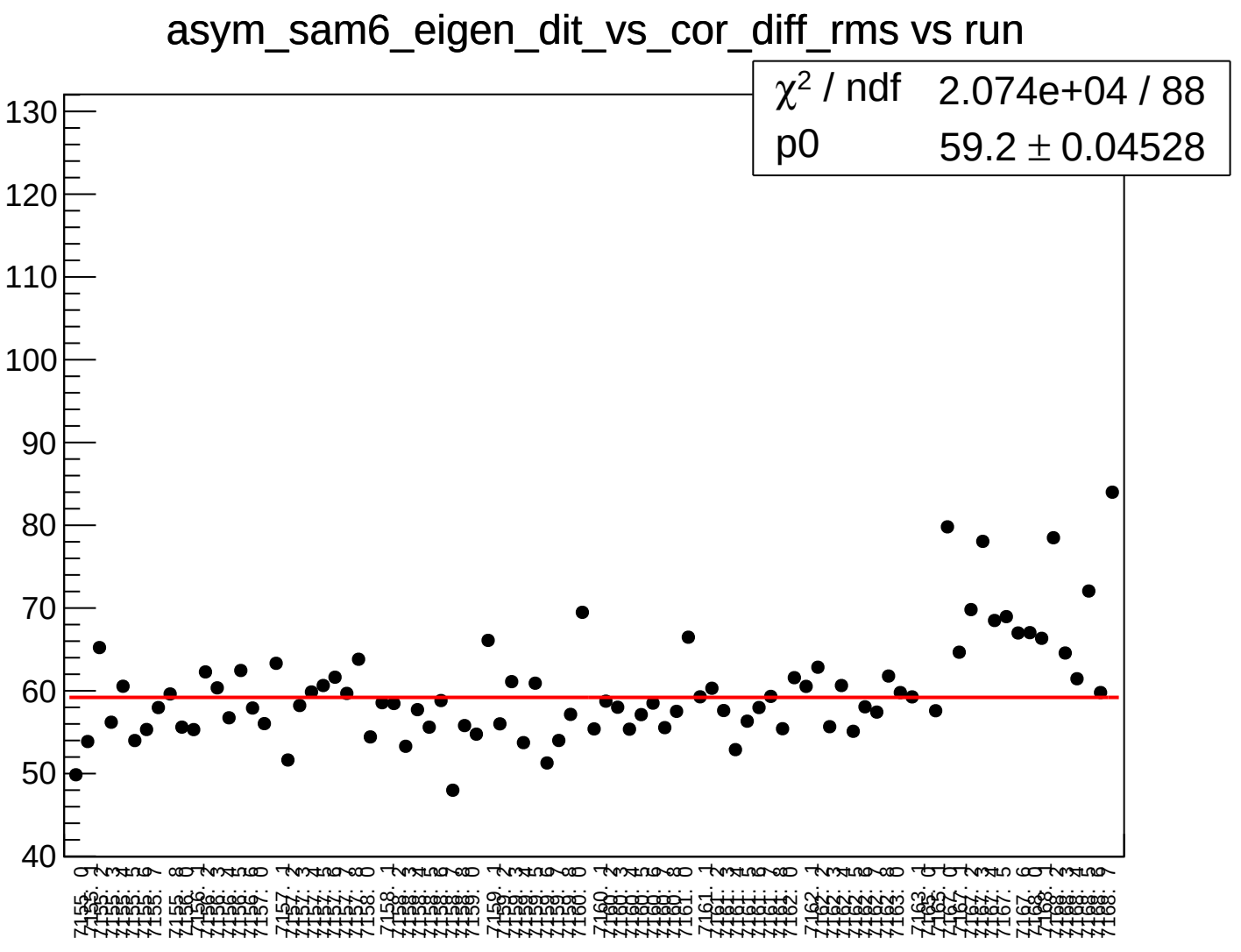

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.074e+04 / 88
p0 59.21 ± 0.04528
130
120
110
100
90
80
70
60
50
40

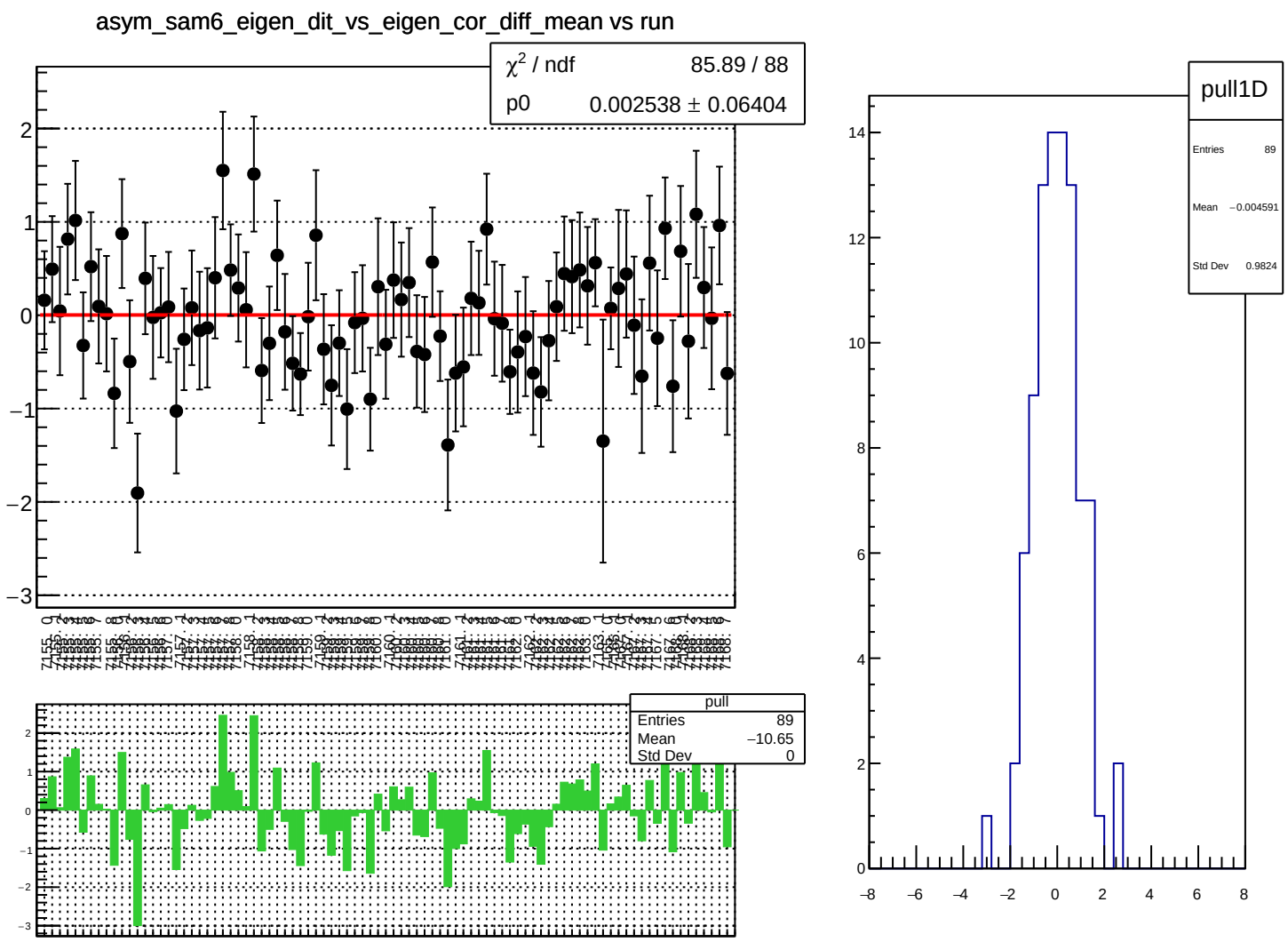

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.38 / 88
p0 −2.443e−06 ± 3.35e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 90.67
Std Dev 0
2
1
0
−1
−2

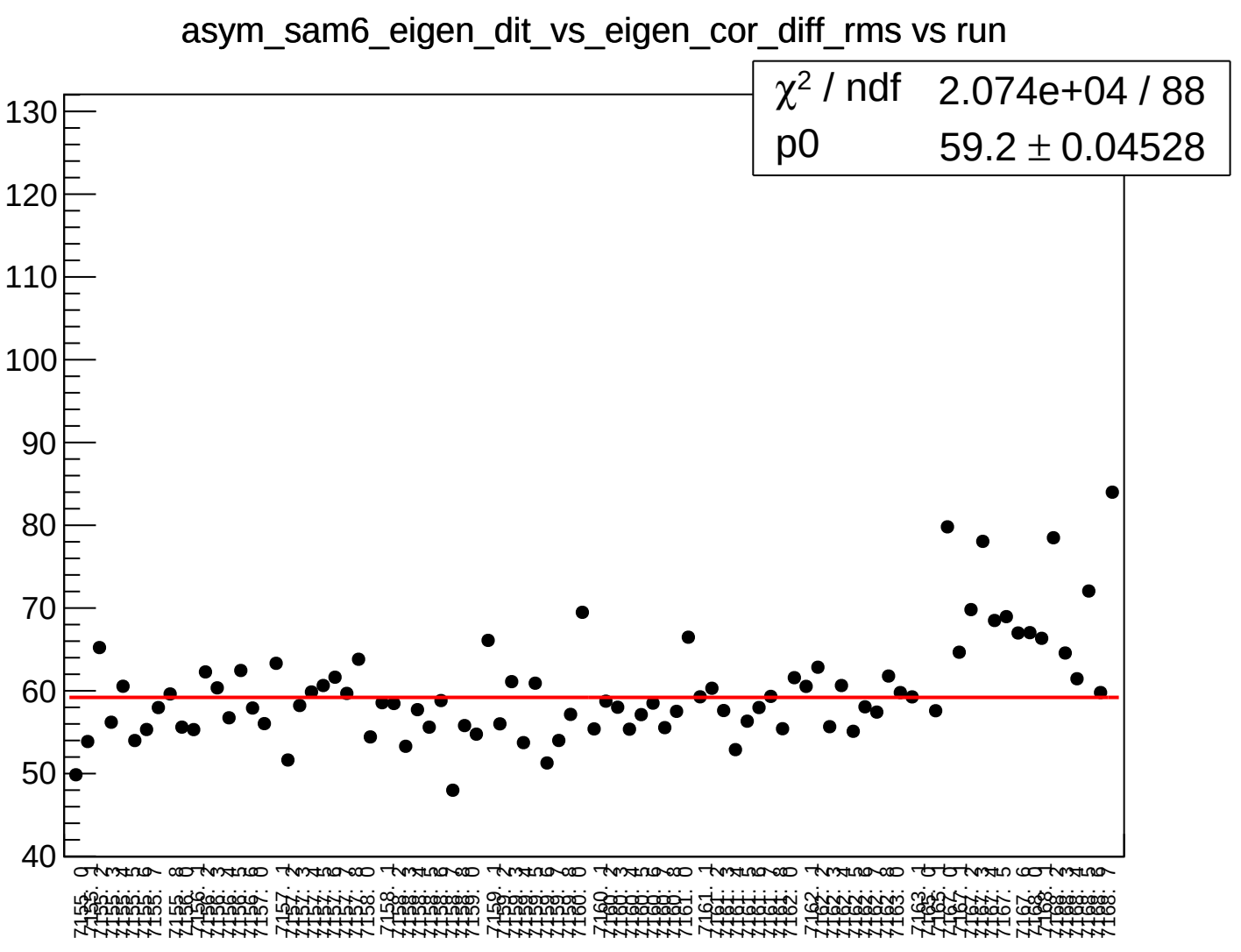

pull1D
Entries 89
Mean 0.01621
Std Dev 0.9263
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

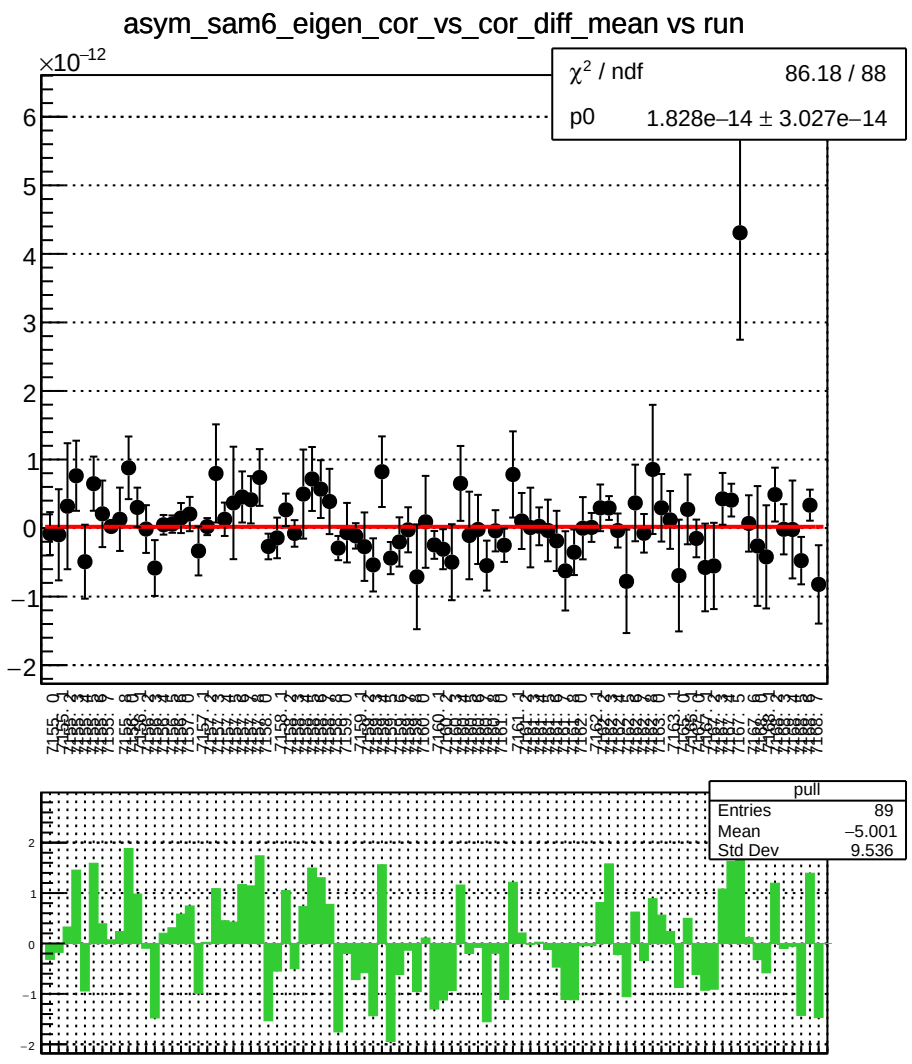

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.599e+04 / 88
p0 0.003101 ± 2.369e−06
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028

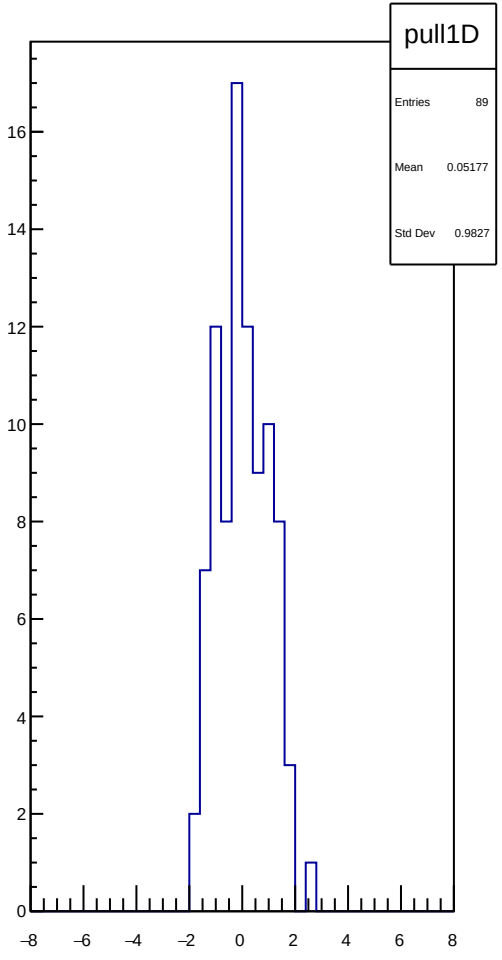

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 0.002538 ± 0.06404
pull
Entries 89
Mean −10.65
Std Dev 0
pull1D
Entries 89
Mean −0.004591
Std Dev 0.9824

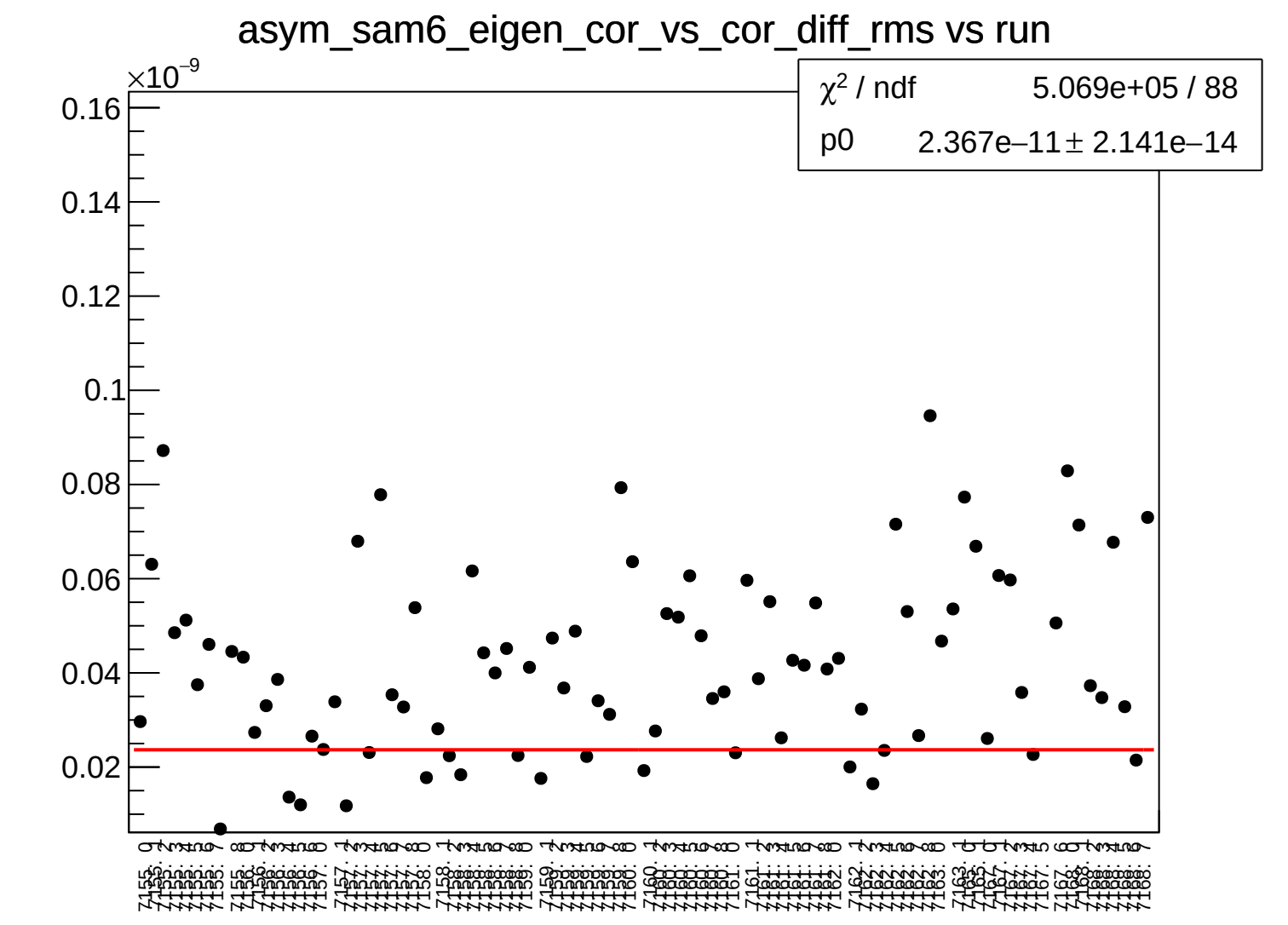

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.074e+04 / 88
p0 59.2 ± 0.04528
130
120
110
100
90
80
70
60
50
40

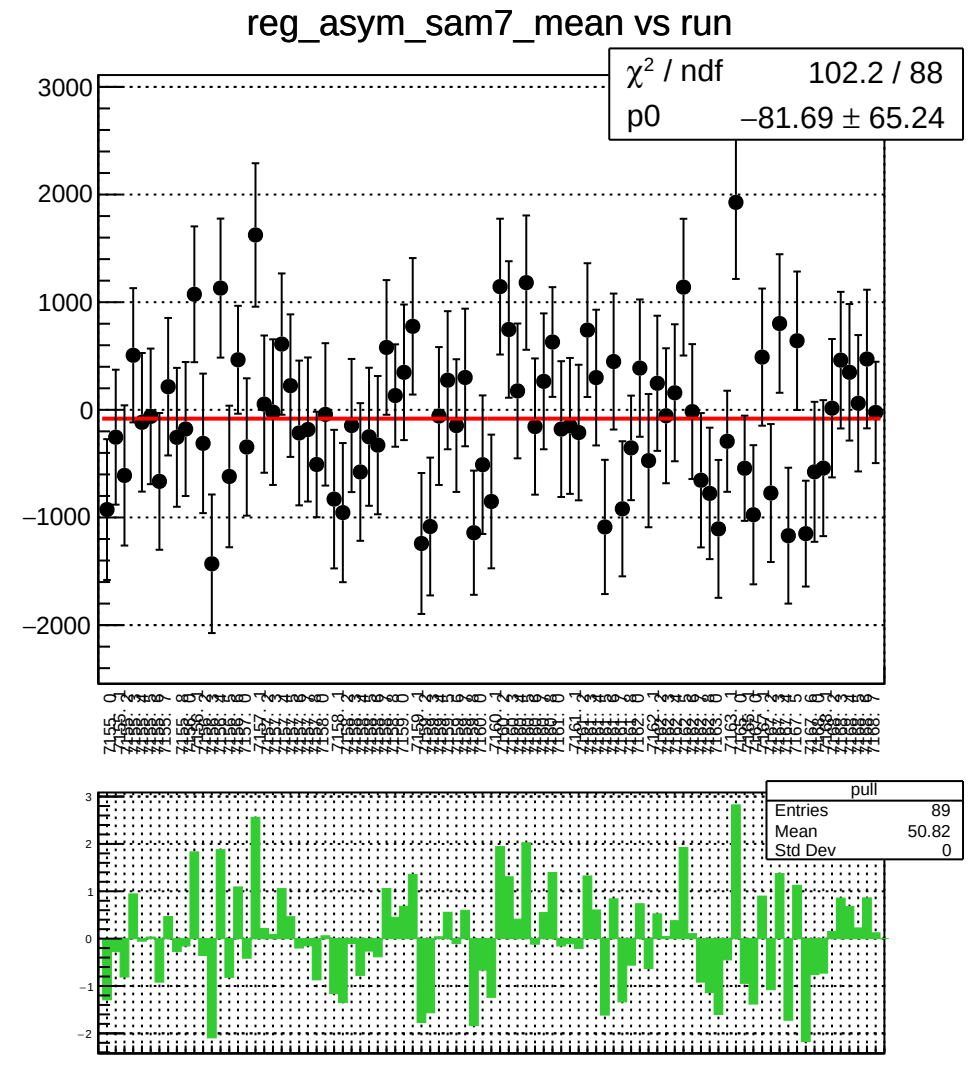

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.89 / 88
p0 0.002538 ± 0.06404
pull
Entries 89
Mean −10.65
Std Dev 0
pull1D
Entries 89
Mean −0.004591
Std Dev 0.9824

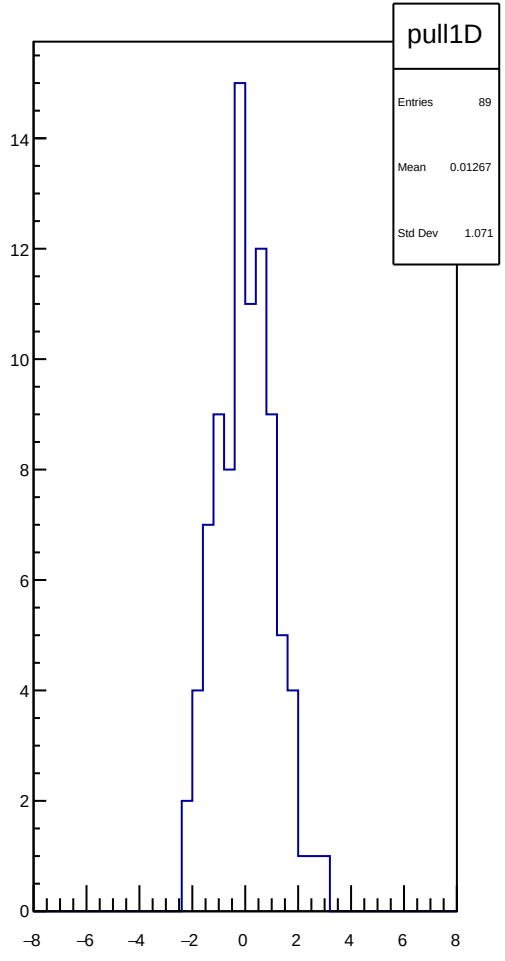

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.074e+04 / 88
p0 59.2 ± 0.04528
130
120
110
100
90
80
70
60
50
40

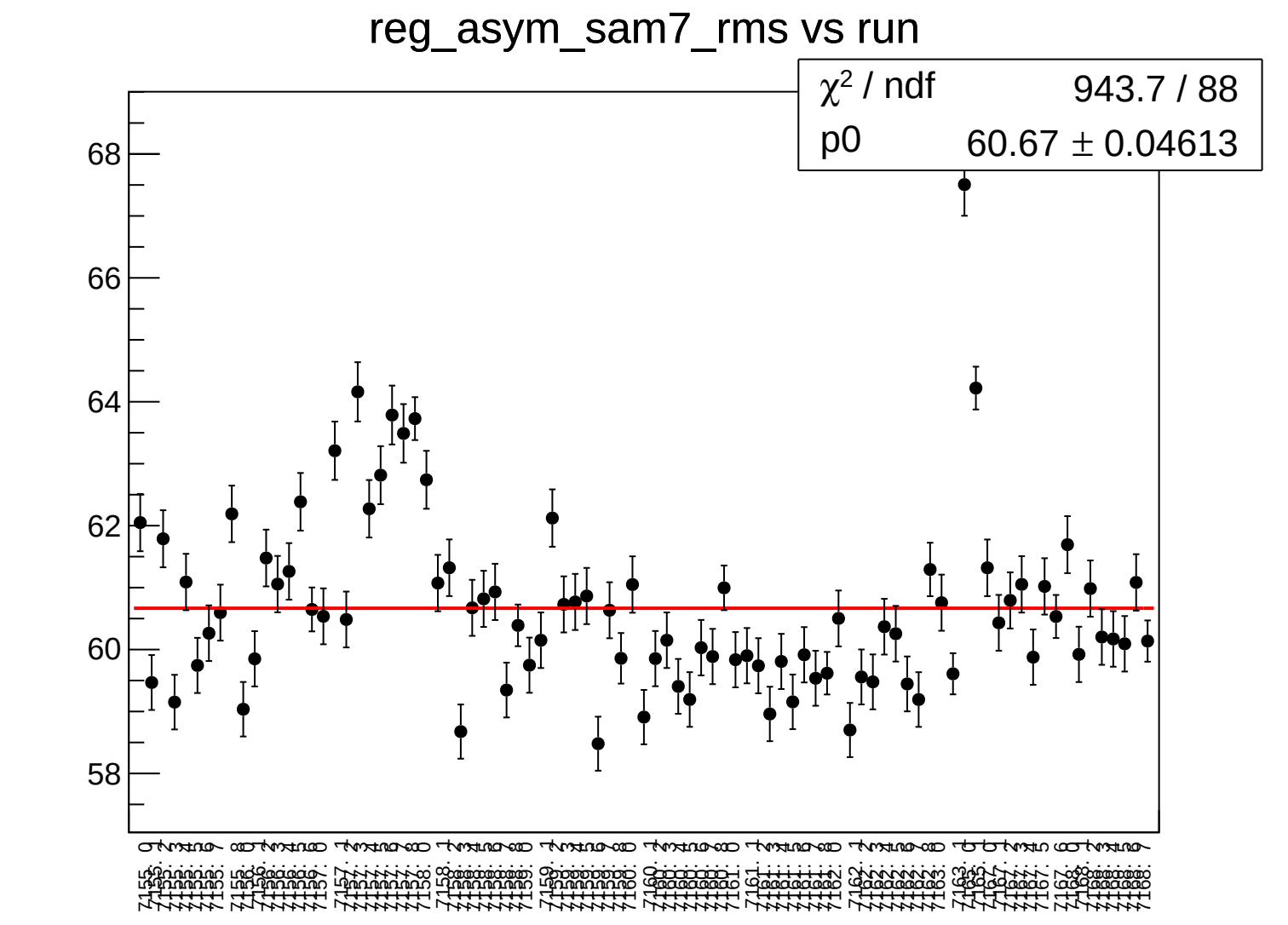

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.18 / 88
p0 1.828e−14 ± 3.027e−14
pull
Entries 89
Mean −5.001
Std Dev 9.536

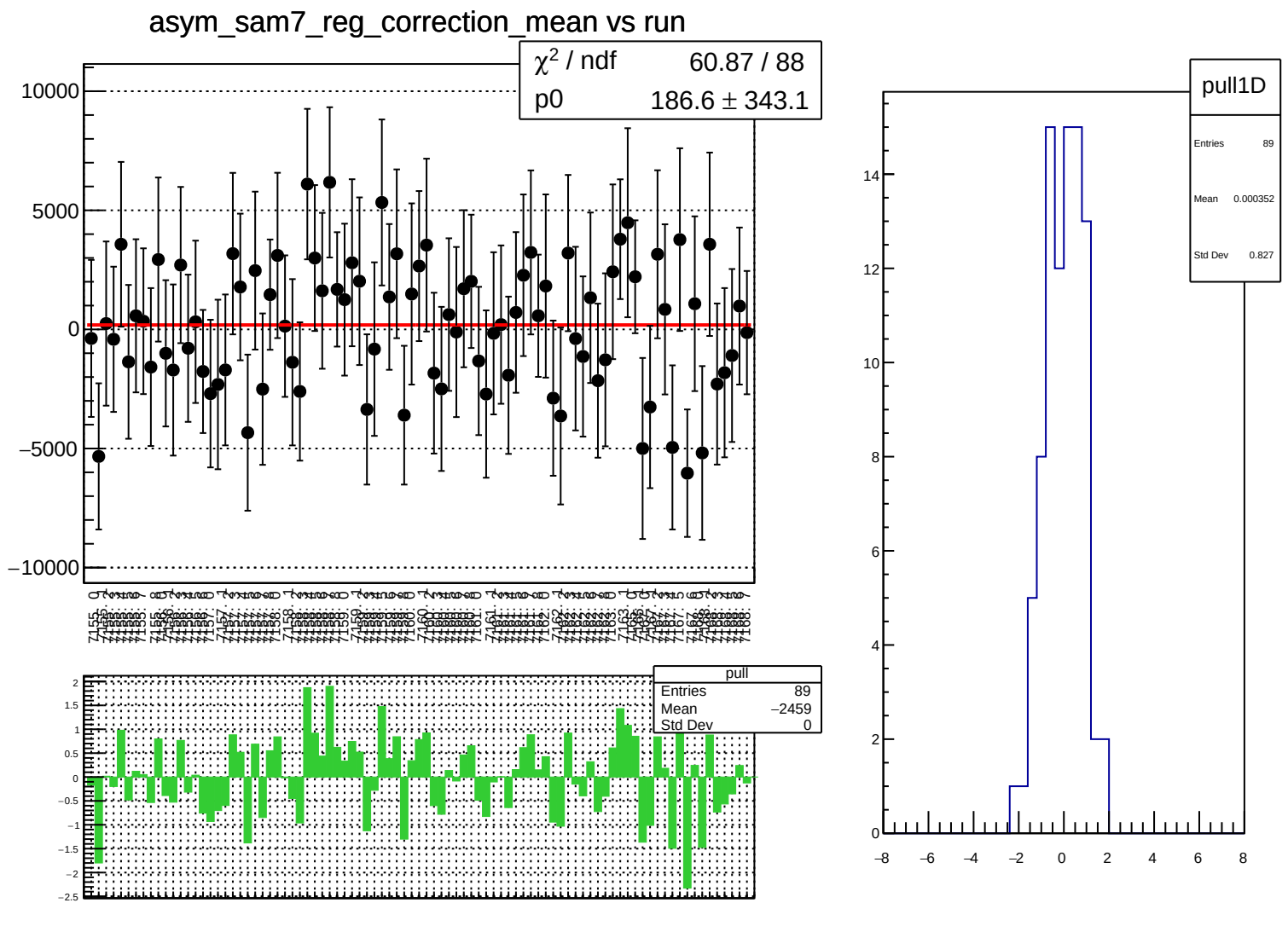

pull1D
Entries 89
Mean 0.05177
Std Dev 0.9827

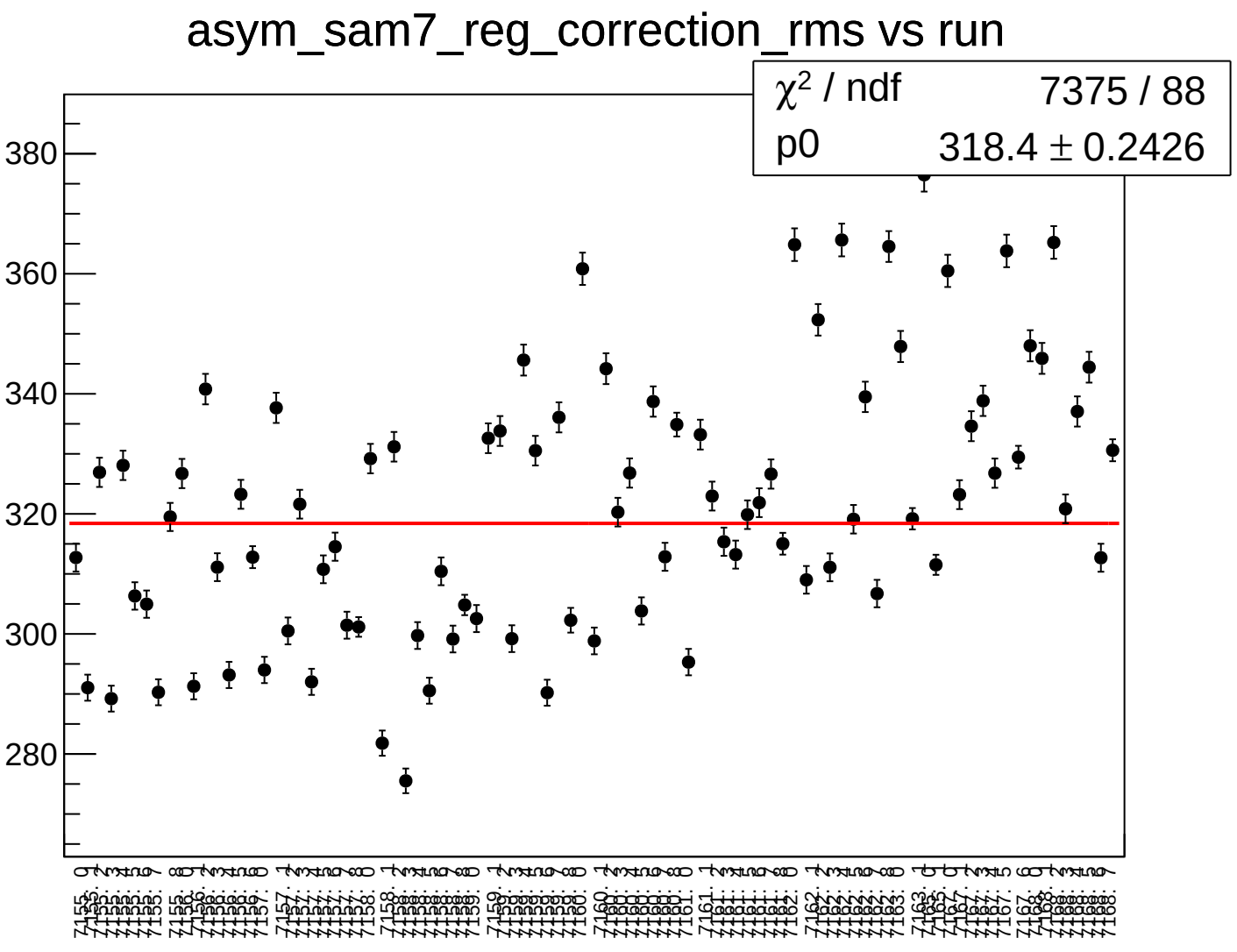

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 5.069e+05 / 88
p0 2.367e−11 ± 2.141e−14

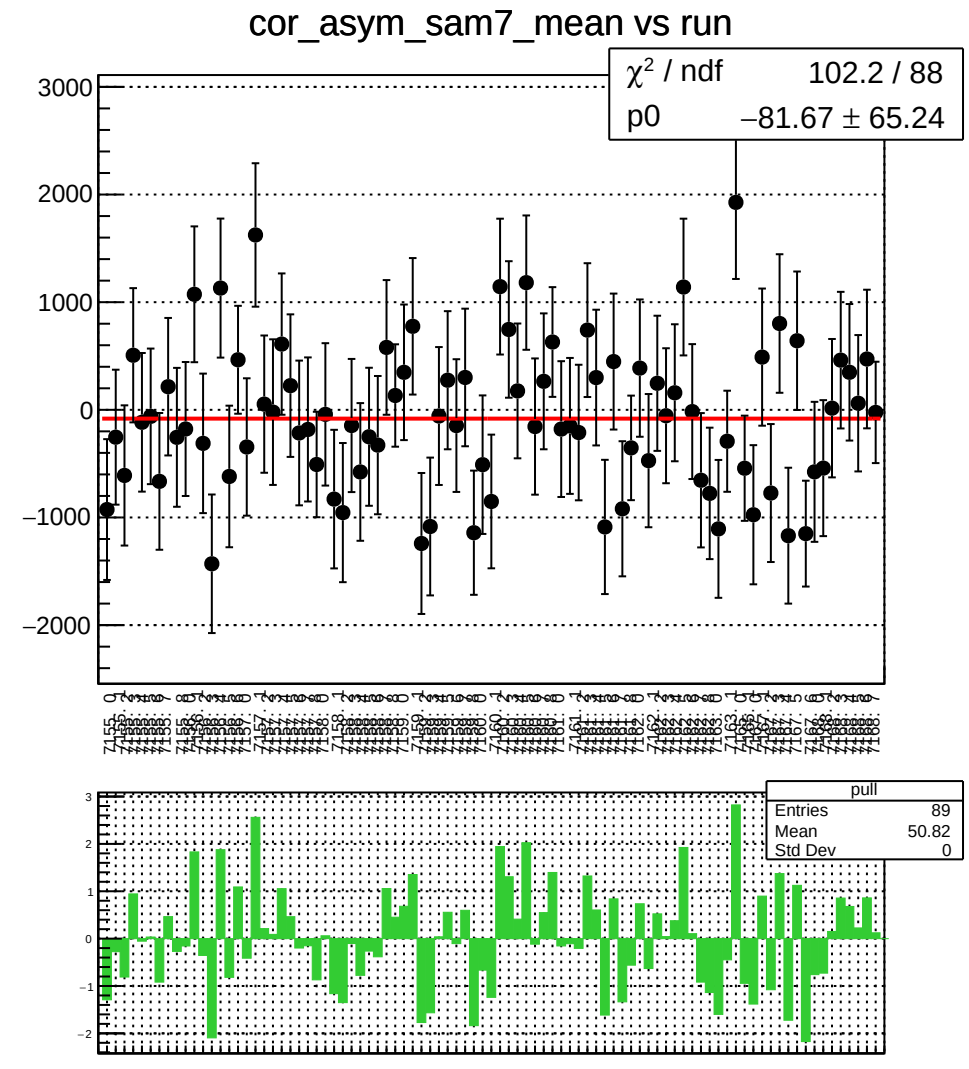

reg_asym_sam7_mean vs run
χ² / ndf 102.2 / 88
p0 −81.69 ± 65.24
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 50.82
Std Dev 0
3
2
1
0
−1
−2

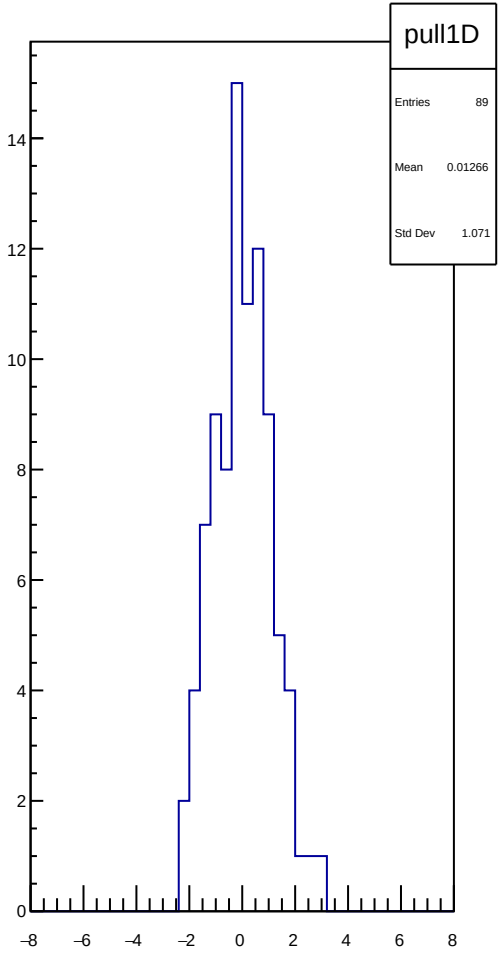

pull1D
Entries 89
Mean 0.01267
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

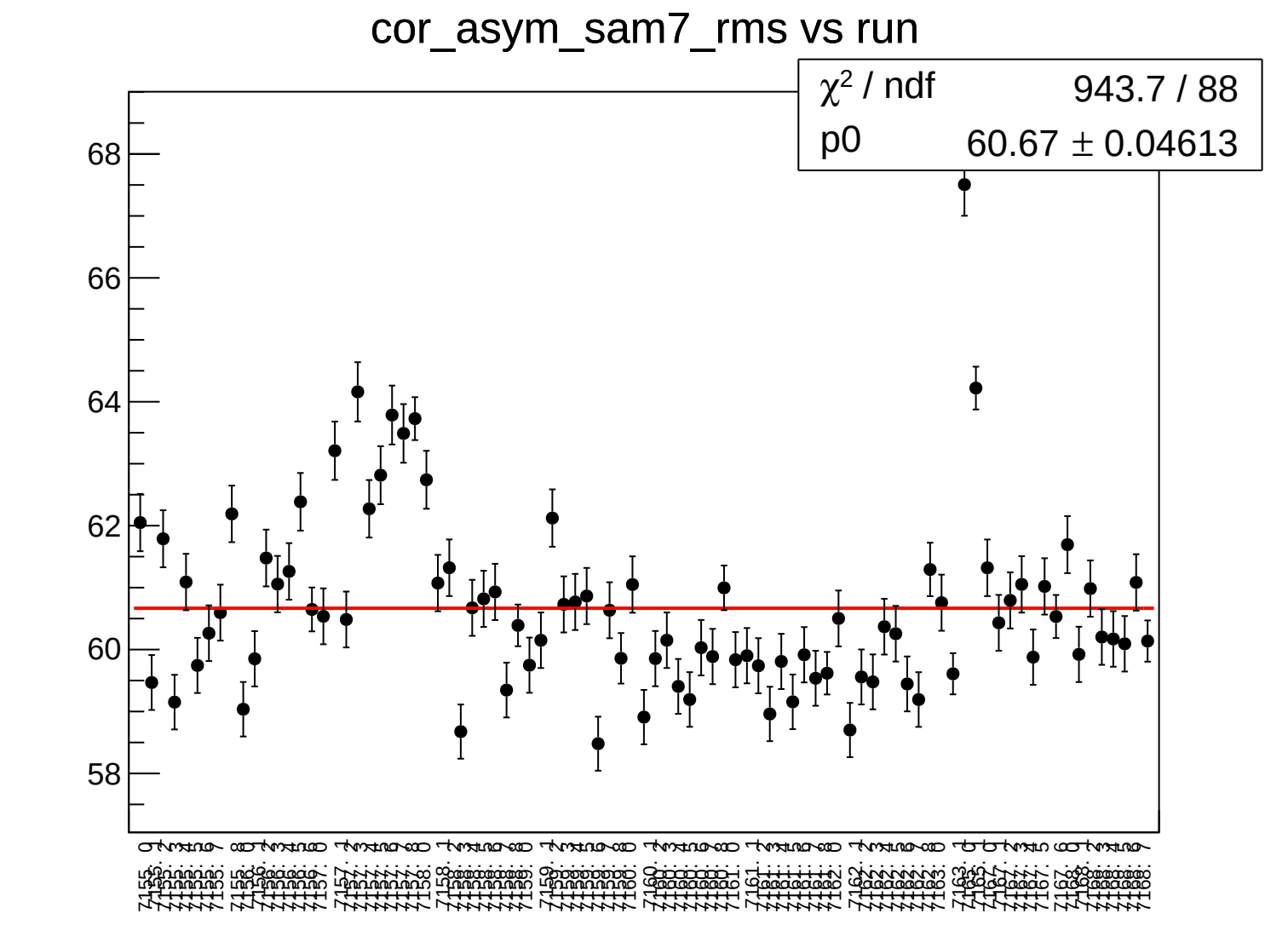

reg_asym_sam7_rms vs run
χ^2 / ndf 943.7 / 88
p0 60.67 ± 0.04613
68
66
64
62
60
58

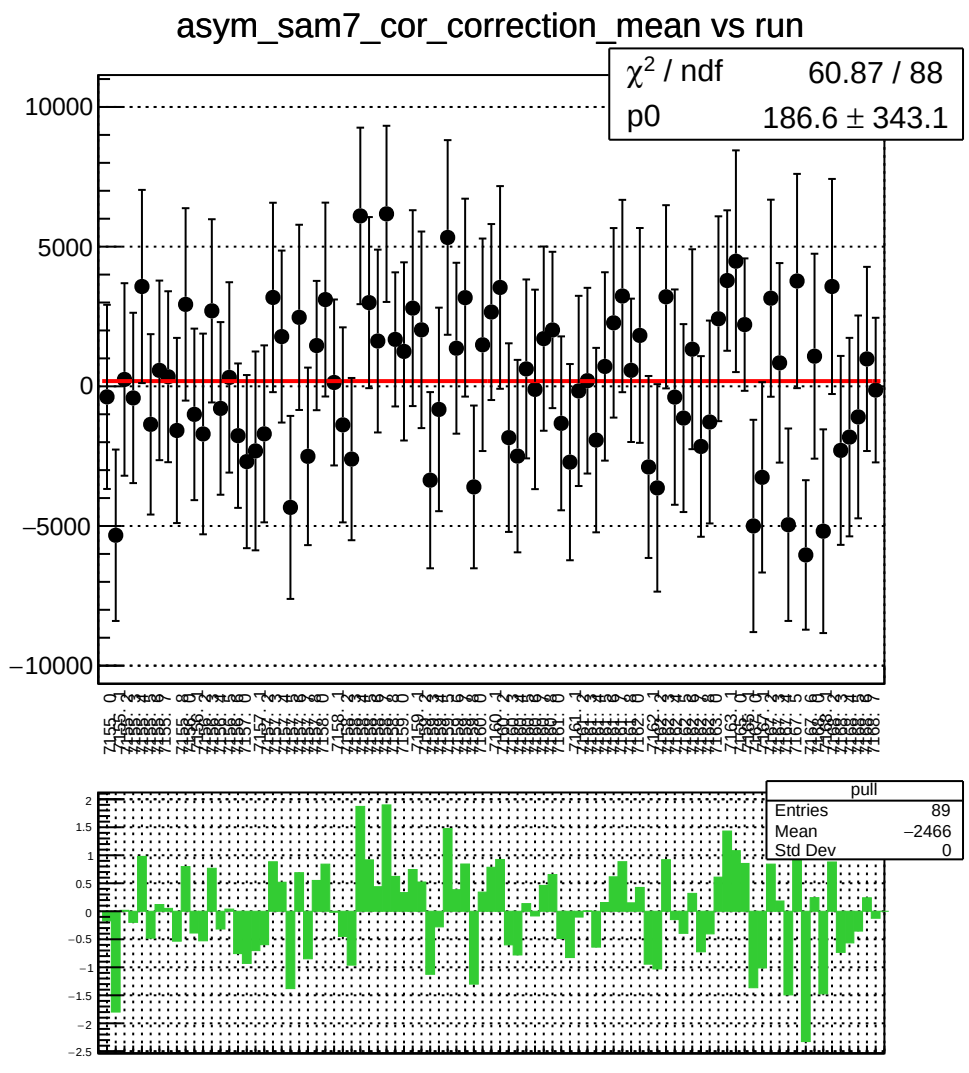

asym_sam7_reg_correction_mean vs run
χ² / ndf 60.87 / 88
p0 186.6 ± 343.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2459
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.000352
Std Dev 0.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

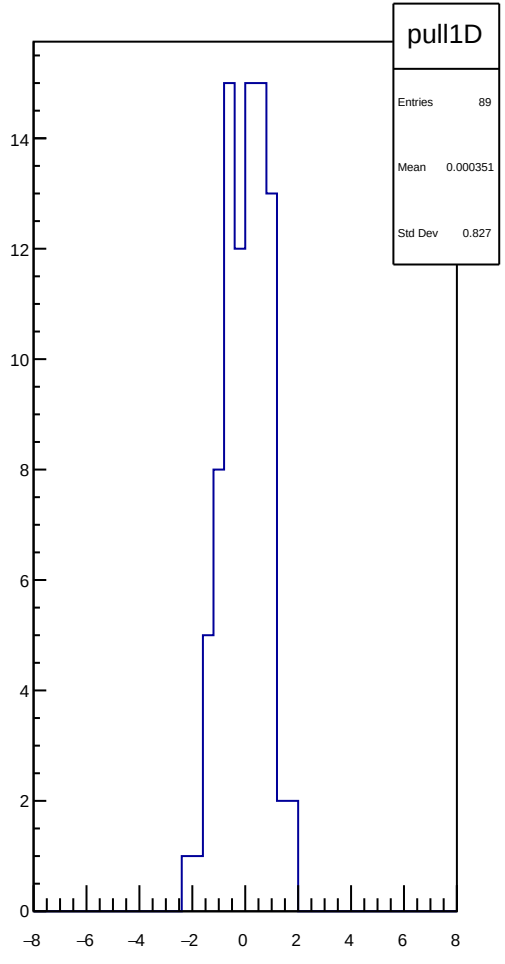

asym_sam7_reg_correction_rms vs run
χ² / ndf 7375 / 88
p0 318.4 ± 0.2426
380
360
340
320
300
280

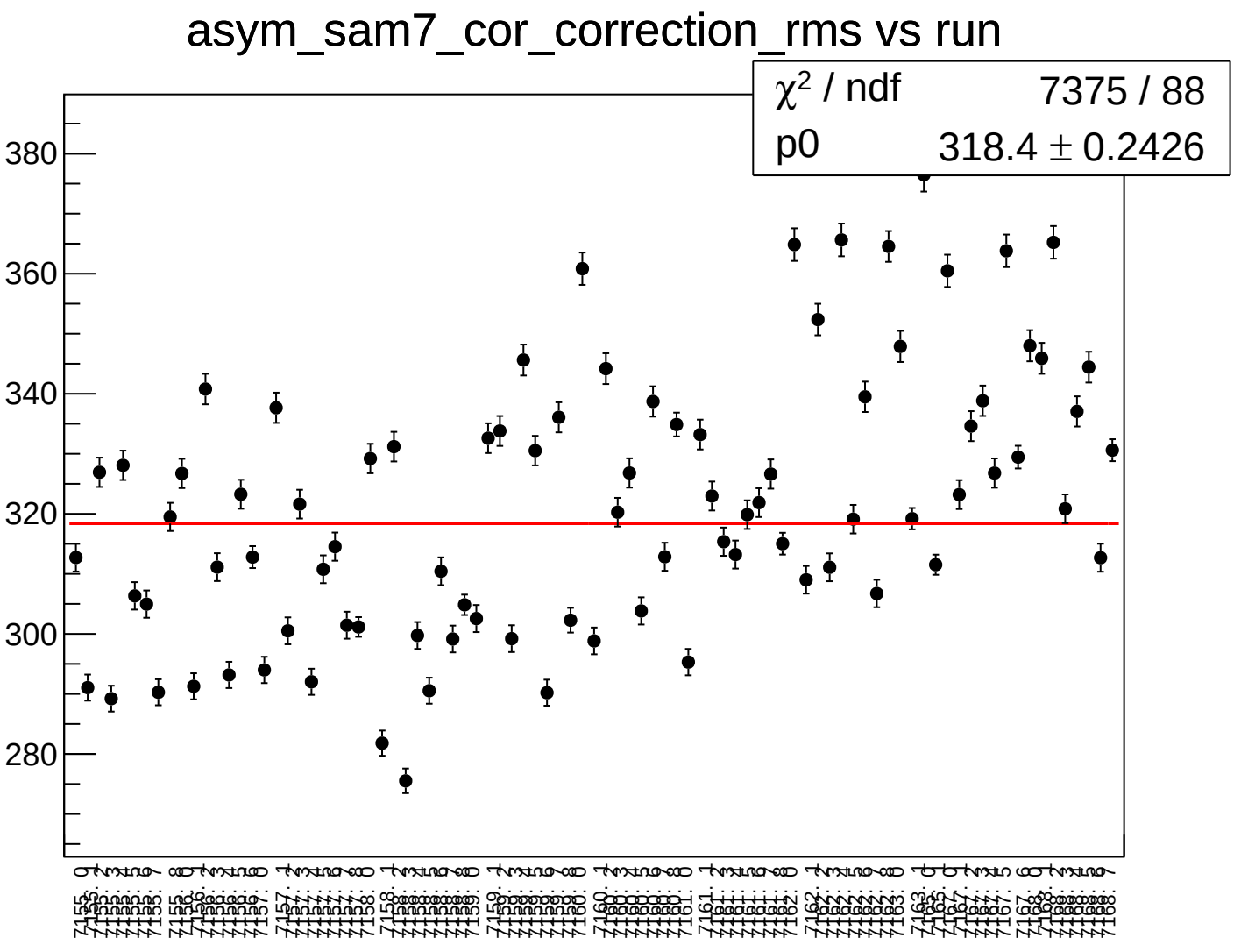

cor_asym_sam7_mean vs run
χ² / ndf 102.2 / 88
p0 −81.67 ± 65.24
pull
Entries 89
Mean 50.82
Std Dev 0

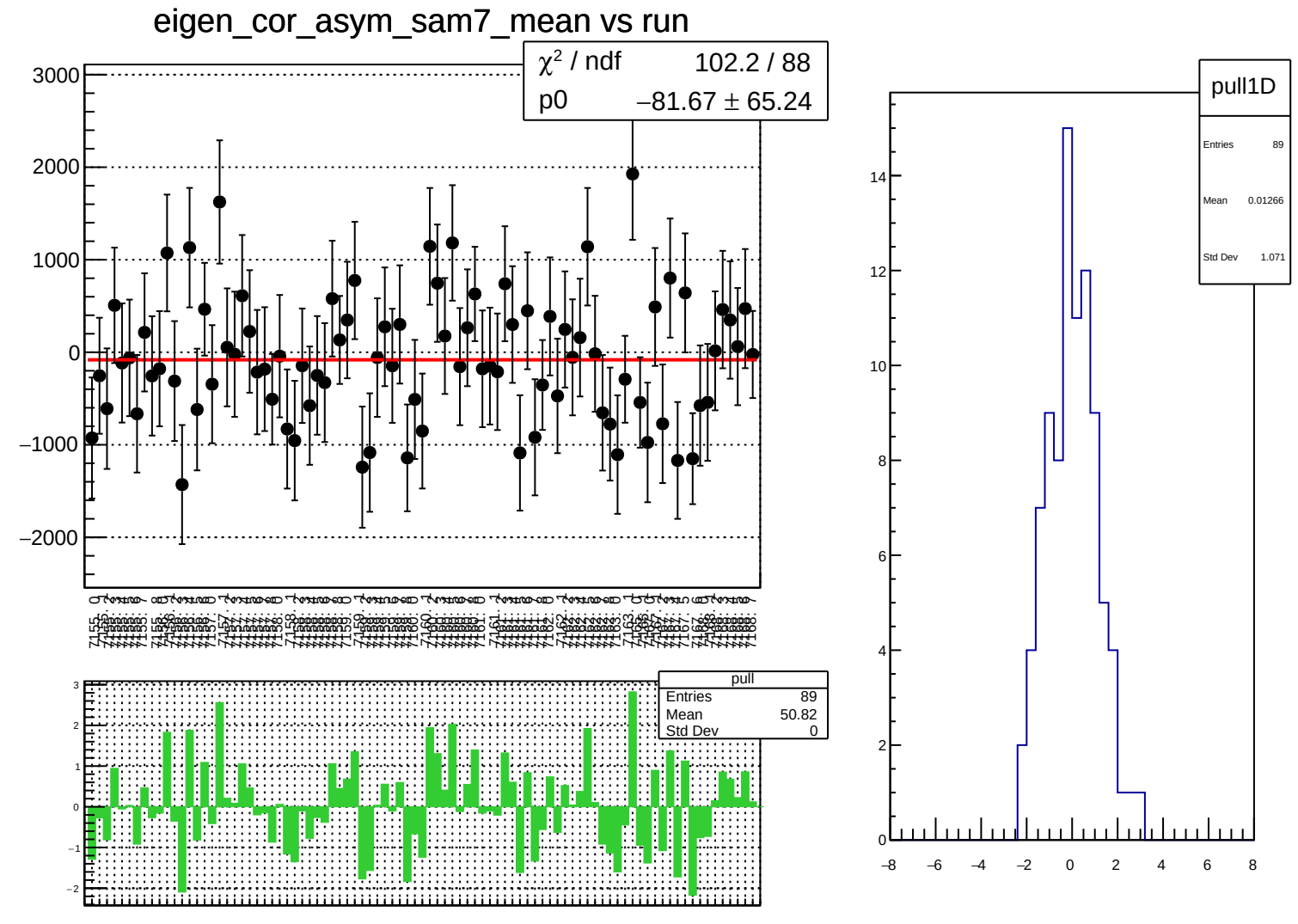

pull1D
Entries 89
Mean 0.01266
Std Dev 1.071

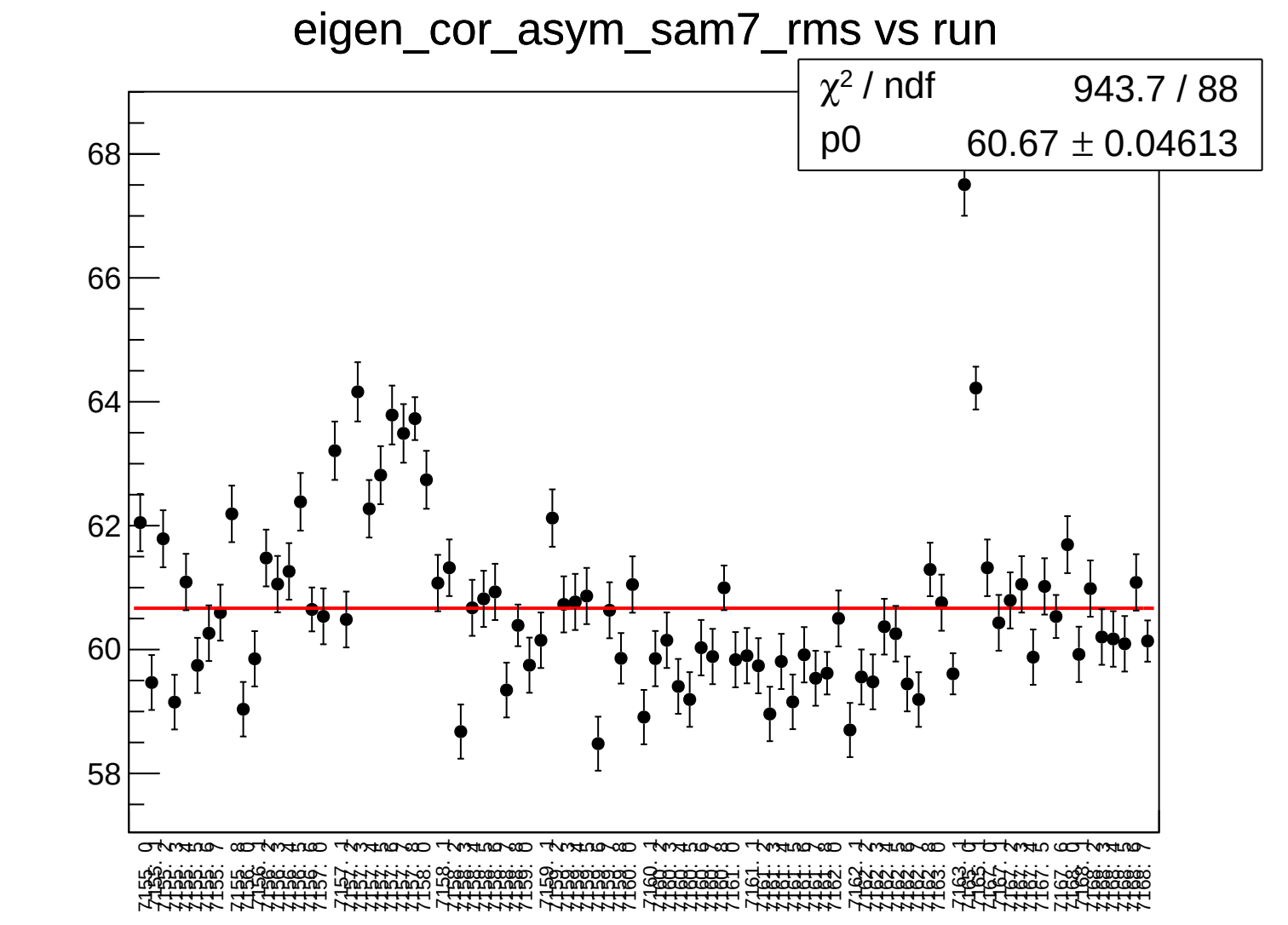

cor_asym_sam7_rms vs run
χ^2 / ndf 943.7 / 88
p0 60.67 ± 0.04613
68
66
64
62
60
58

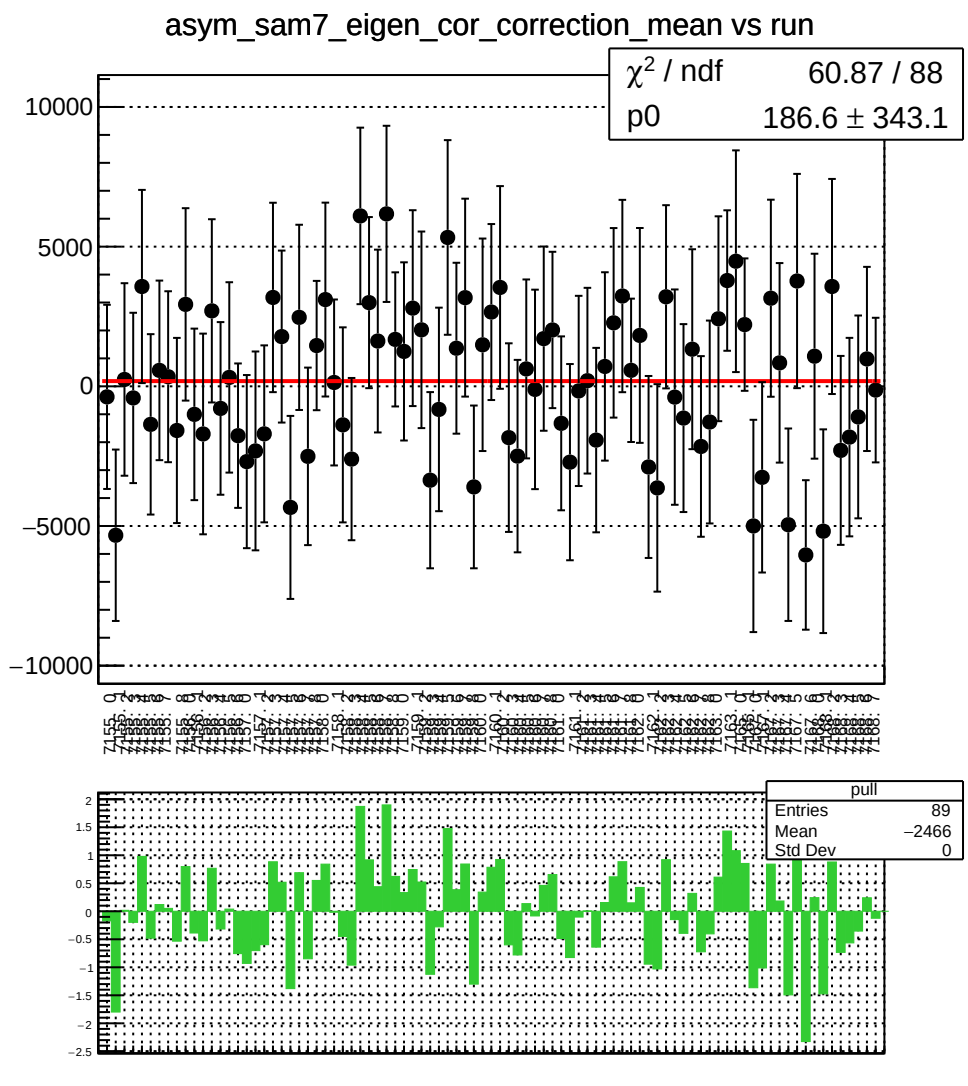

asym_sam7_cor_correction_mean vs run
χ² / ndf 60.87 / 88
p0 186.6 ± 343.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2466
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

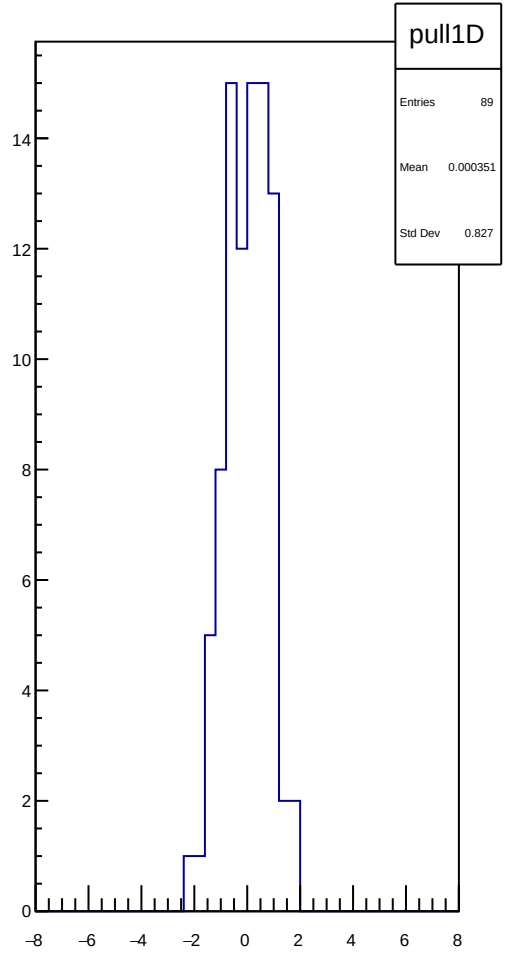

pull1D
Entries 89
Mean 0.000351
Std Dev 0.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

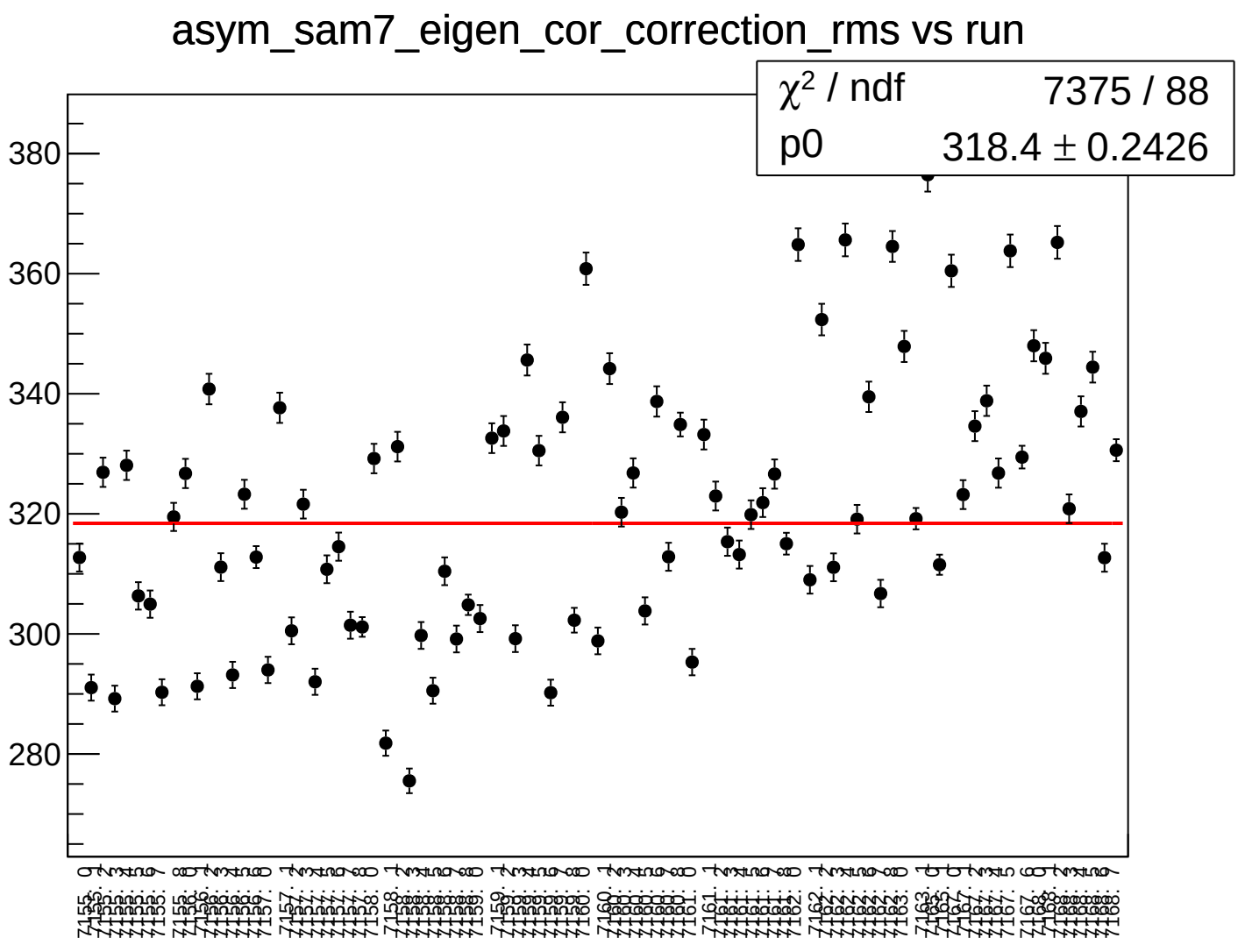

asym_sam7_cor_correction_rms vs run
χ² / ndf 7375 / 88
p0 318.4 ± 0.2426
380
360
340
320
300
280

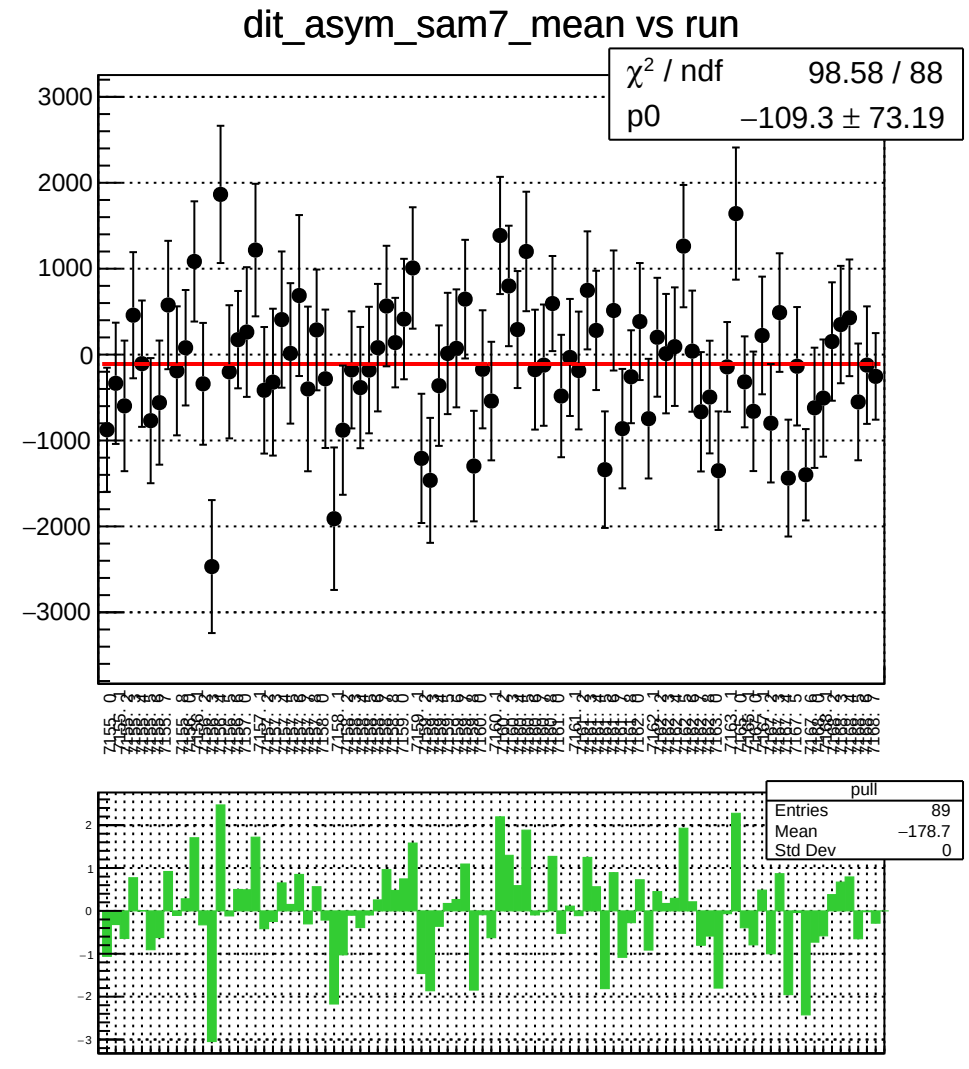

eigen_cor_asym_sam7_mean vs run
χ² / ndf 102.2 / 88
p0 −81.67 ± 65.24
pull
Entries 89
Mean 50.82
Std Dev 0
pull1D
Entries 89
Mean 0.01266
Std Dev 1.071

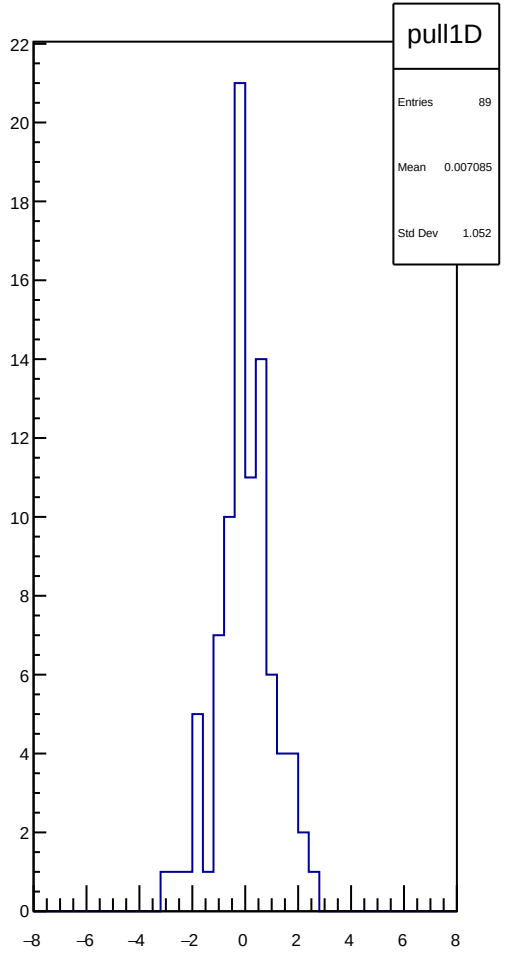

eigen_cor_asym_sam7_rms vs run
χ^2 / ndf 943.7 / 88
p0 60.67 ± 0.04613
68
66
64
62
60
58

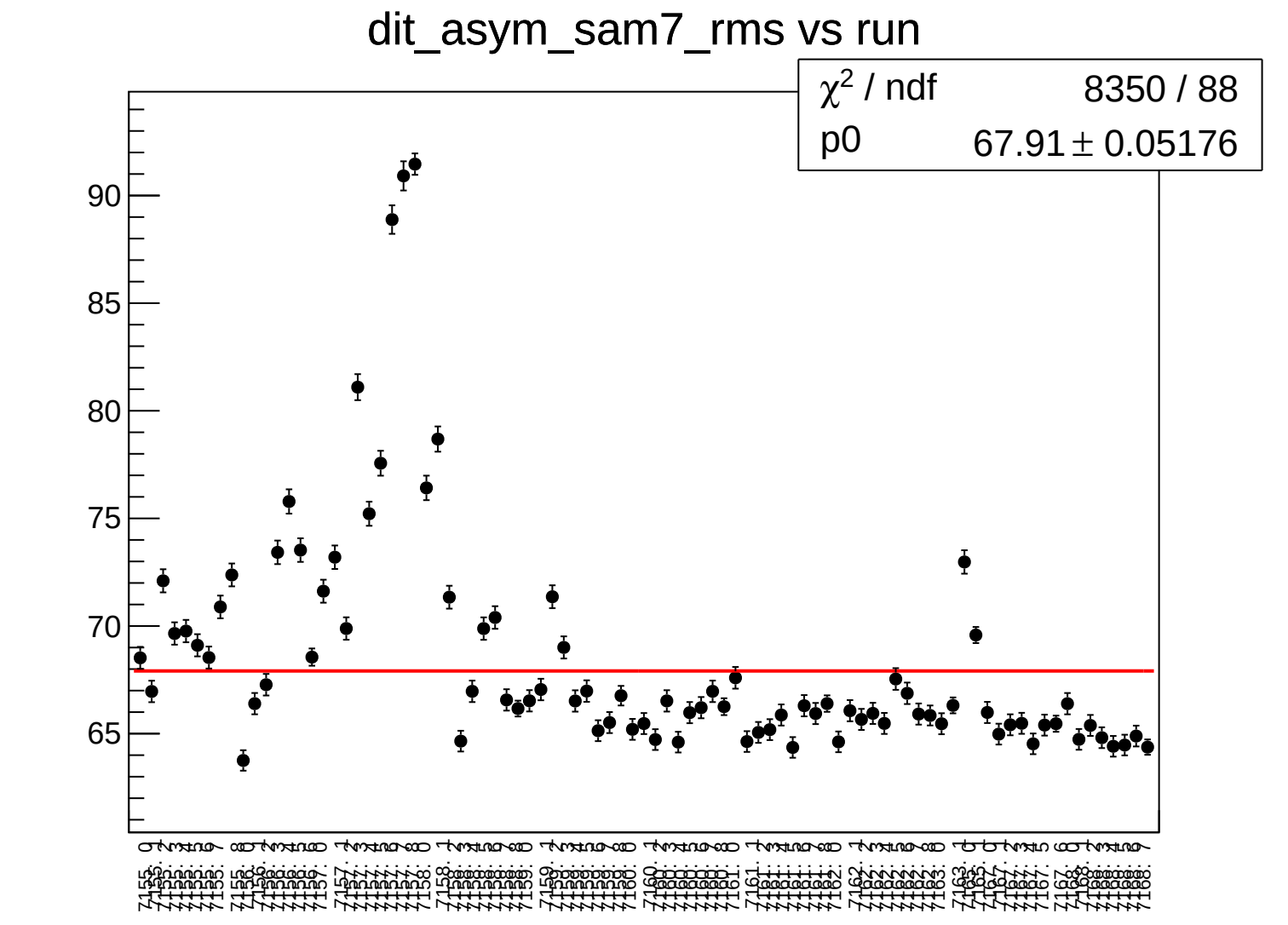

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 60.87 / 88
p0 186.6 ± 343.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −2466
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

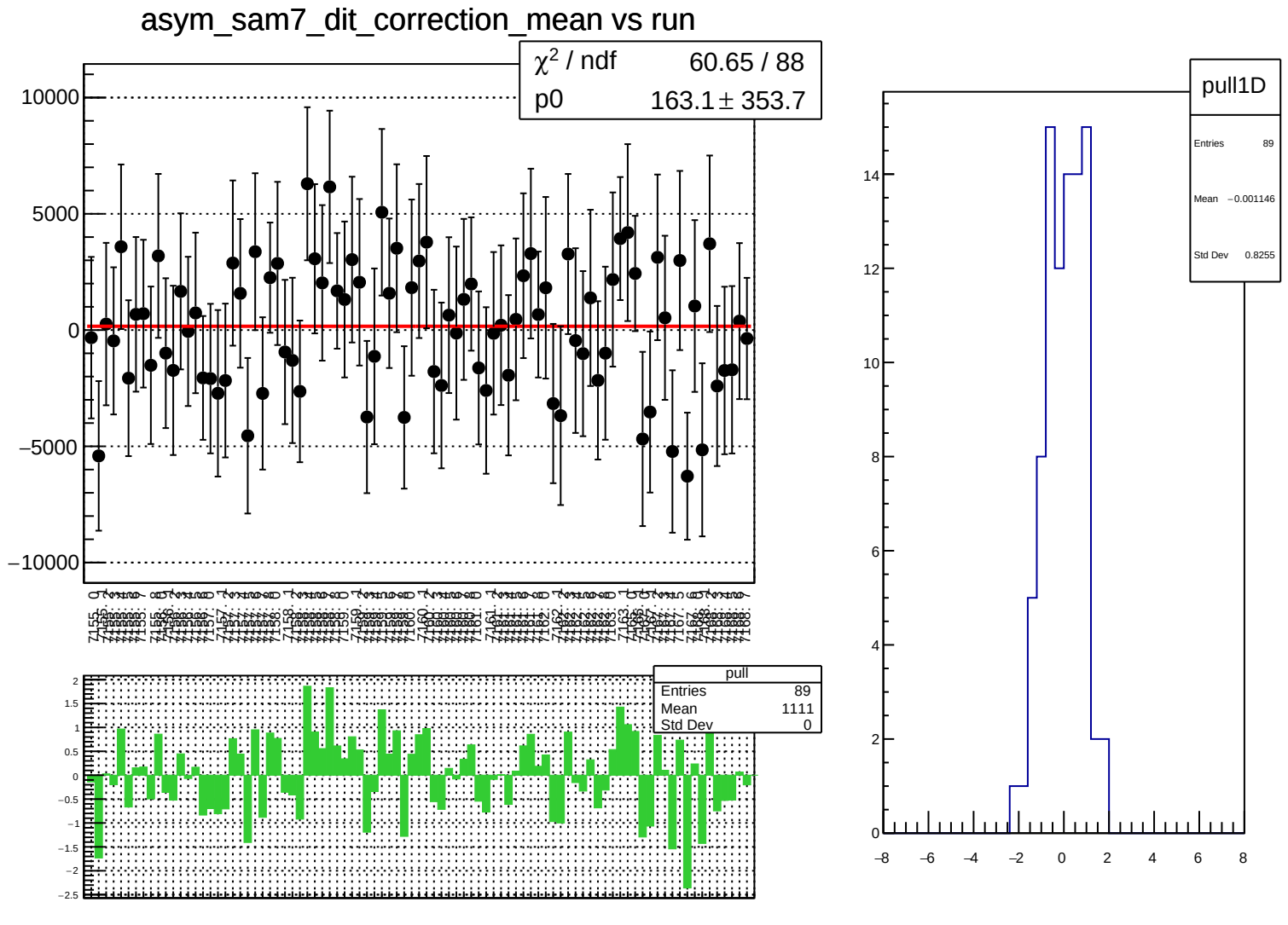

pull1D
Entries 89
Mean 0.000351
Std Dev 0.827
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

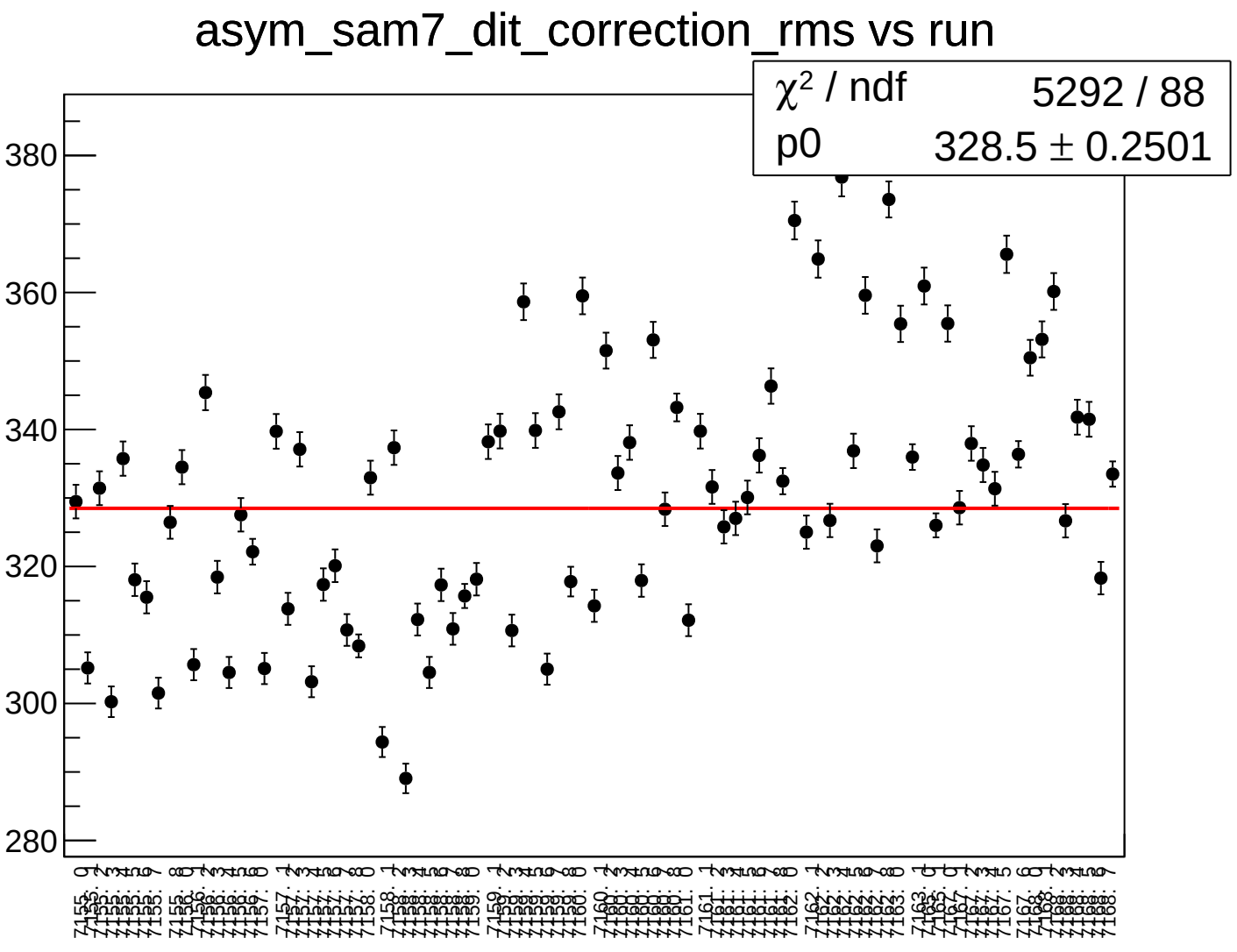

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 7375 / 88
p0 318.4 ± 0.2426
380
360
340
320
300
280

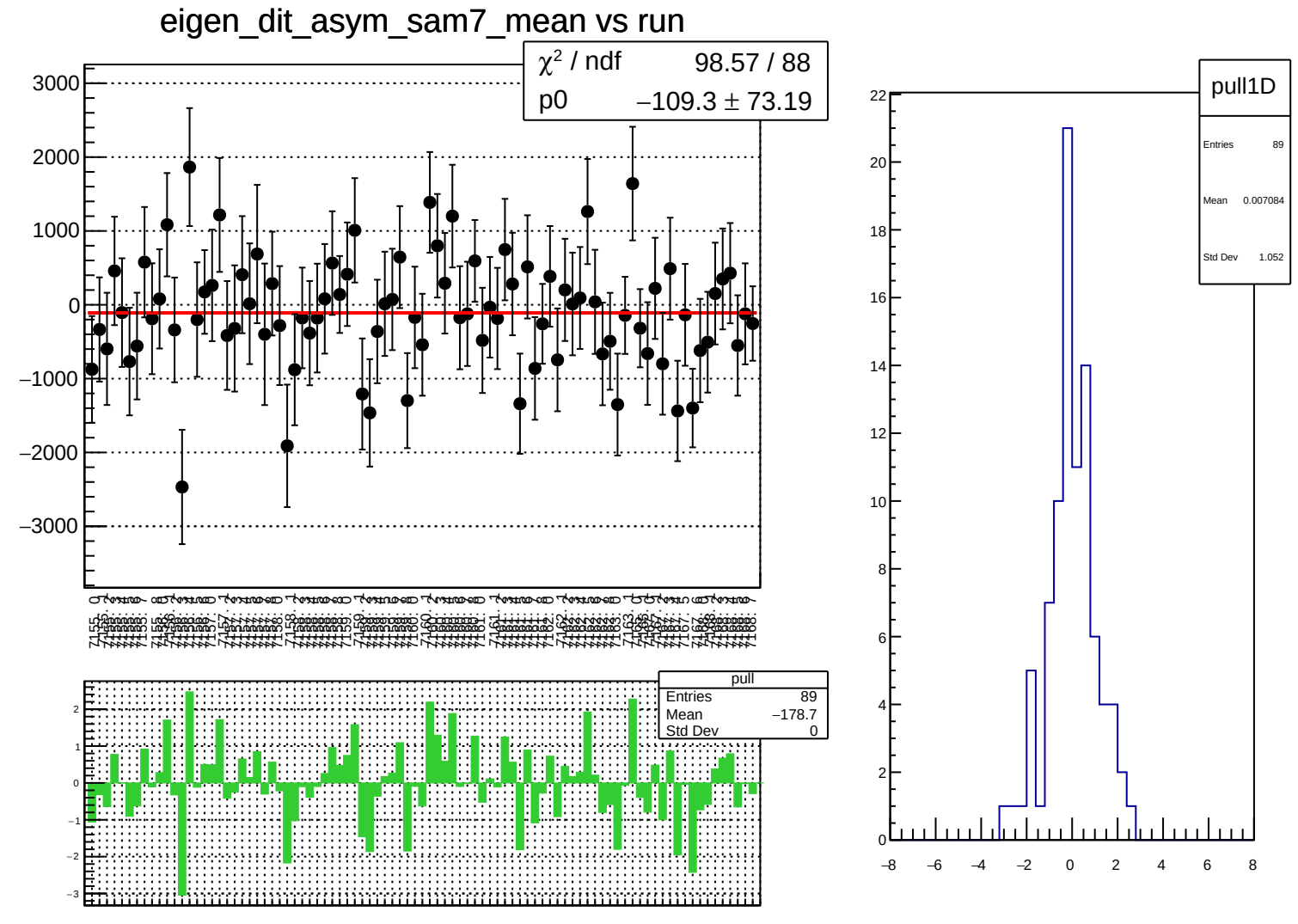

dit_asym_sam7_mean vs run
χ² / ndf 98.58 / 88
p0 −109.3 ± 73.19
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −178.7
Std Dev 0
2
1
0
−1
−2
−3

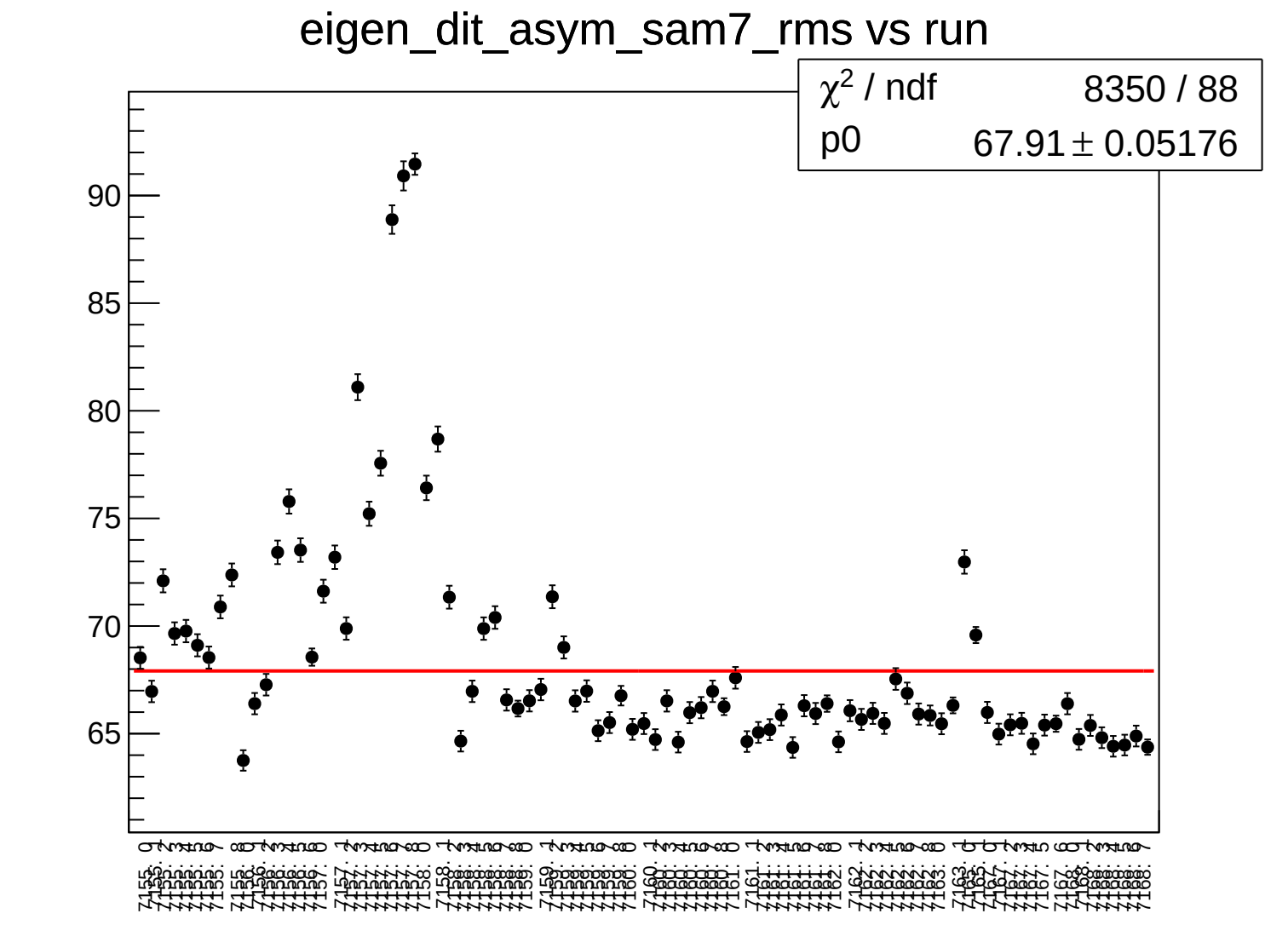

pull1D
Entries 89
Mean 0.007085
Std Dev 1.052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

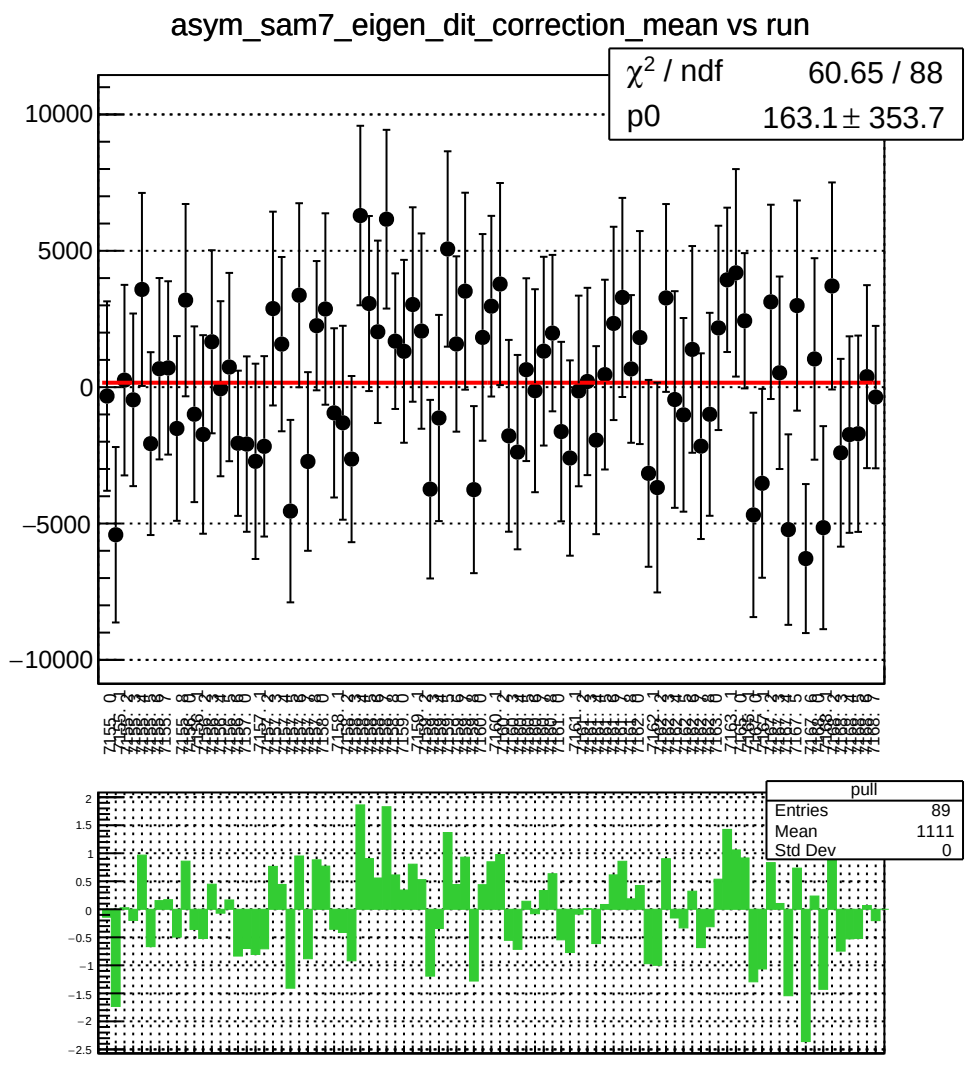

dit_asym_sam7_rms vs run
χ^2 / ndf 8350 / 88
p0 67.91 ± 0.05176
90
85
80
75
70
65

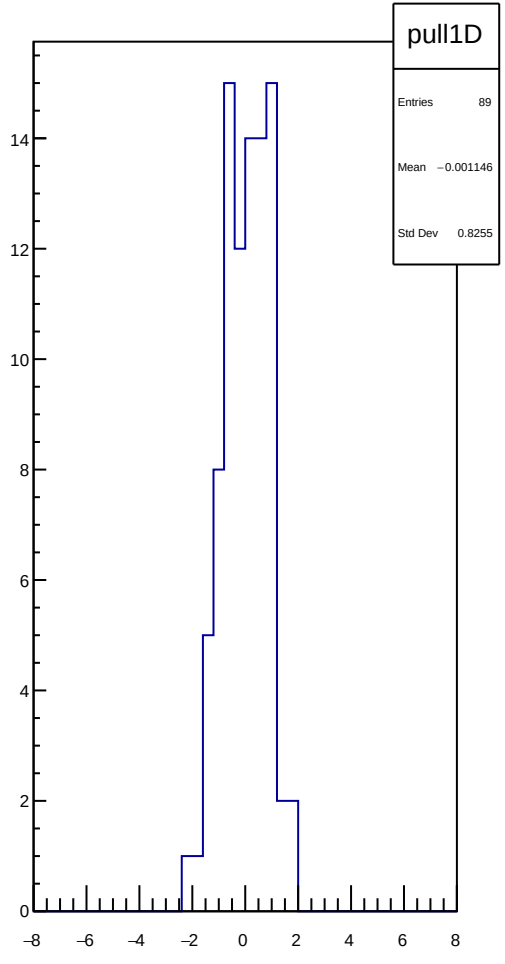

asym_sam7_dit_correction_mean vs run
χ² / ndf 60.65 / 88
p0 163.1 ± 353.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean −0.001146
Std Dev 0.8255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

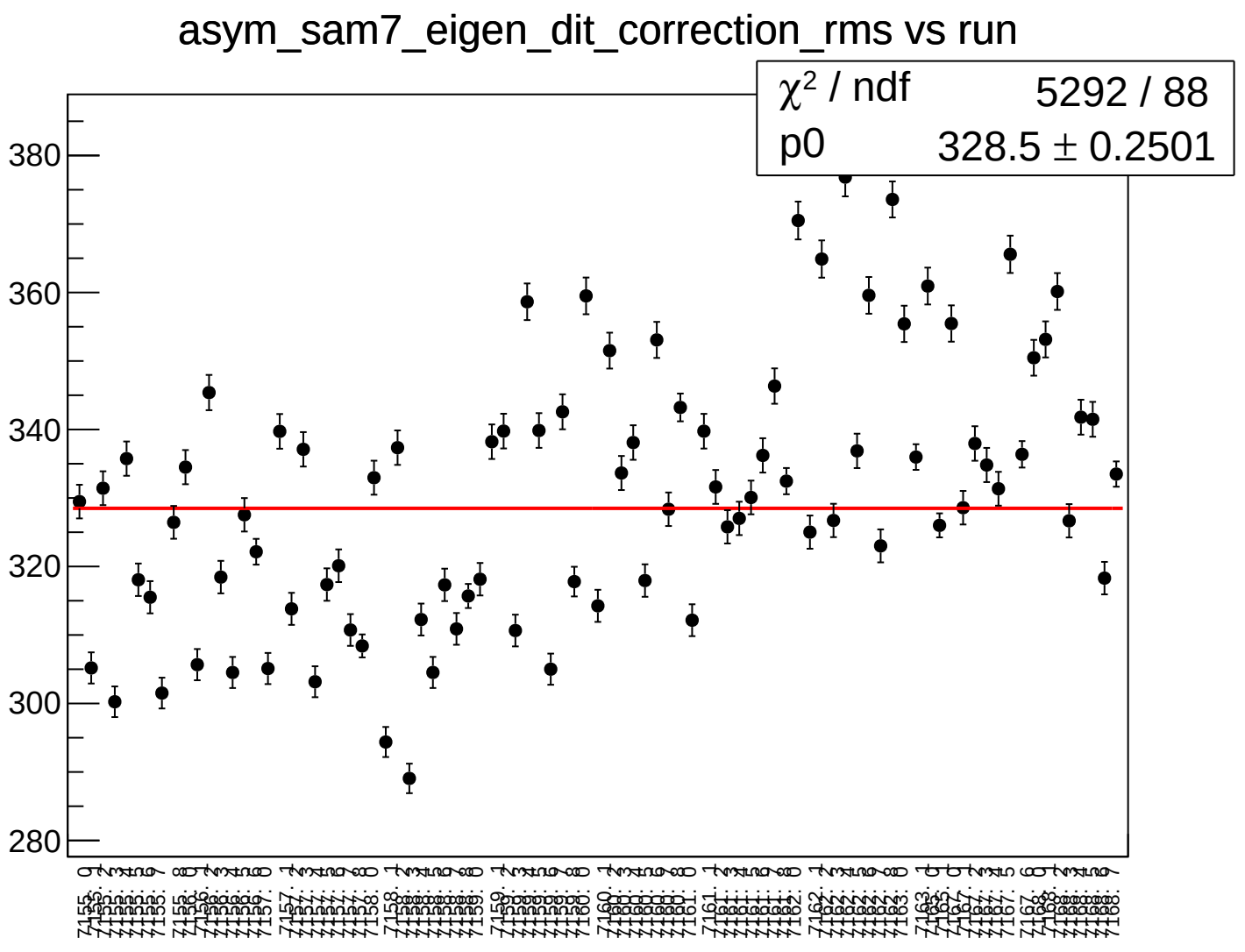

asym_sam7_dit_correction_rms vs run
χ² / ndf 5292 / 88
p0 328.5 ± 0.2501
380
360
340
320
300
280

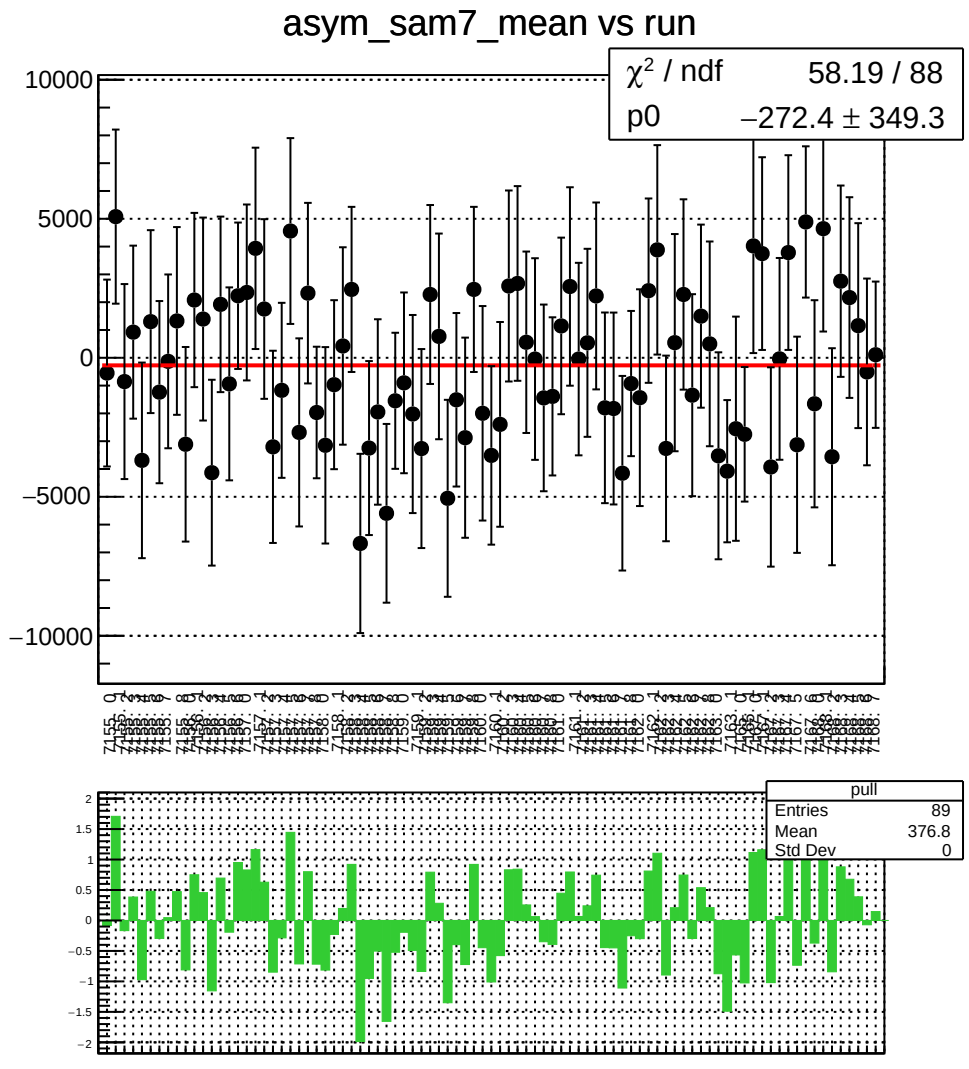

eigen_dit_asym_sam7_mean vs run
χ² / ndf 98.57 / 88
p0 −109.3 ± 73.19
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −178.7
Std Dev 0
pull1D
Entries 89
Mean 0.007084
Std Dev 1.052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

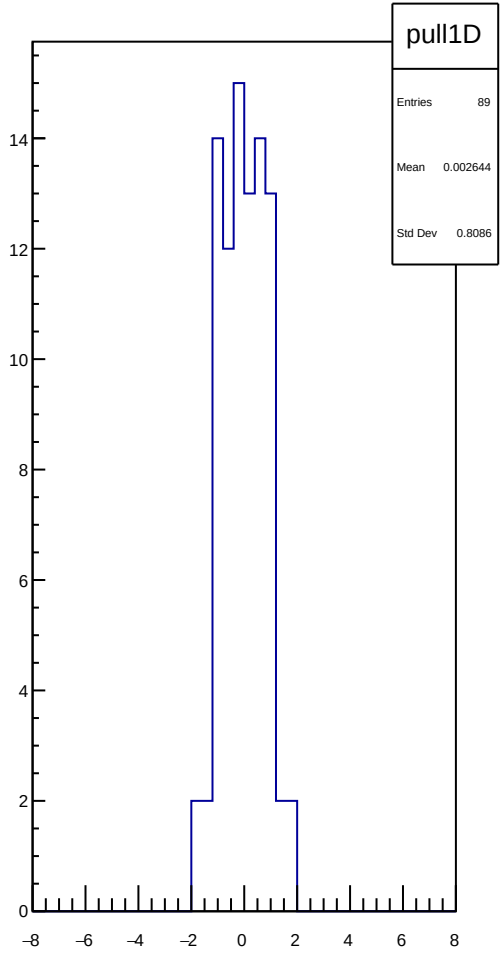

eigen_dit_asym_sam7_rms vs run
χ^2 / ndf 8350 / 88
p0 67.91 ± 0.05176
90
85
80
75
70
65

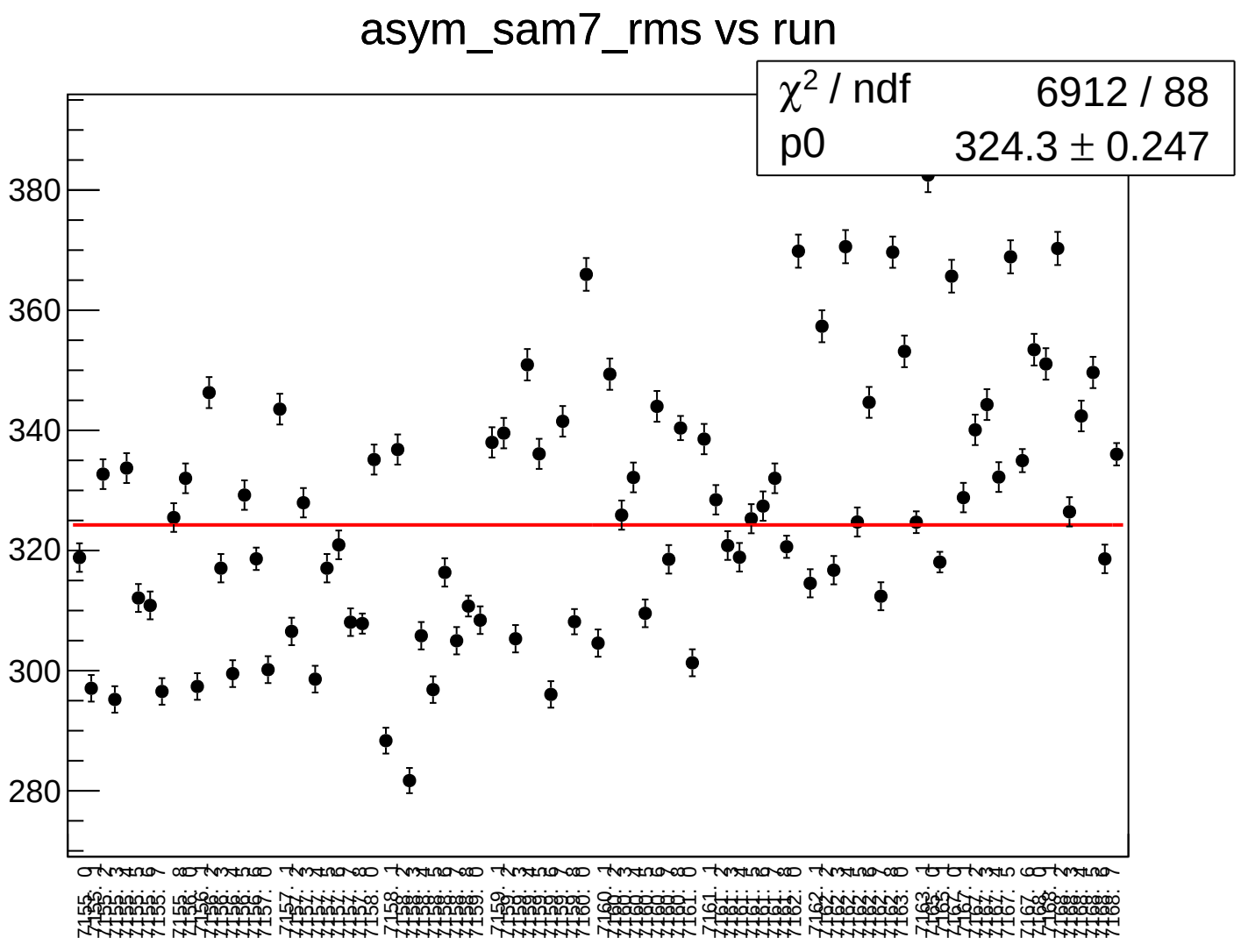

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 60.65 / 88
p0 163.1 ± 353.7
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 1111
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

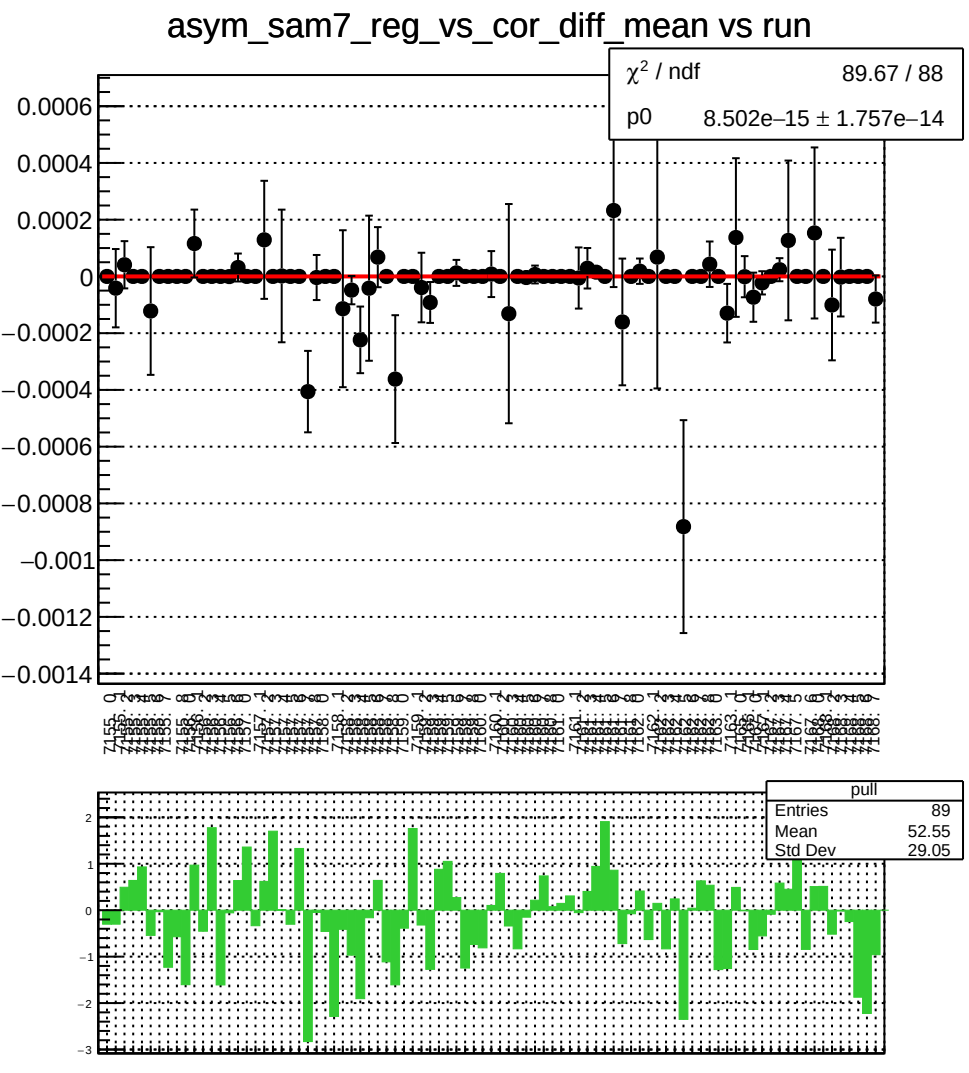

pull1D
Entries 89
Mean −0.001146
Std Dev 0.8255
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

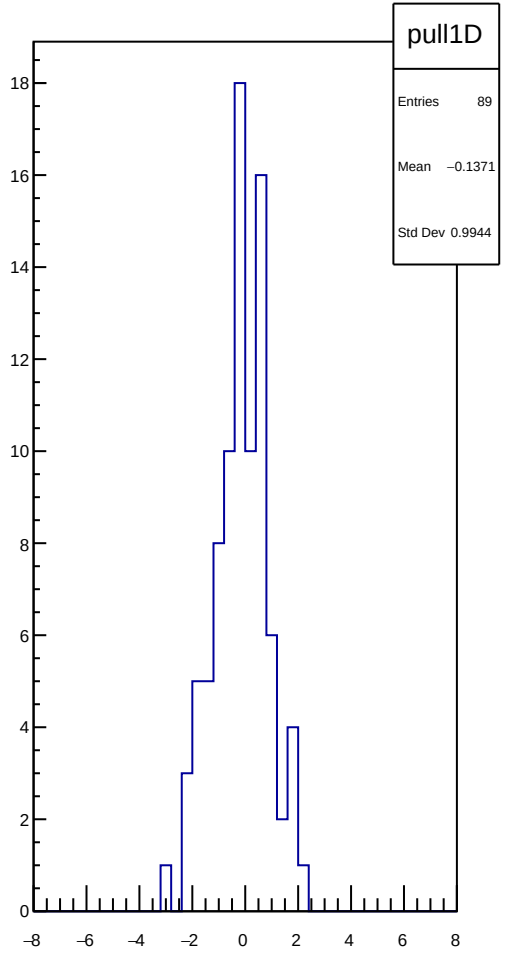

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 5292 / 88
p0 328.5 ± 0.2501
380
360
340
320
300
280

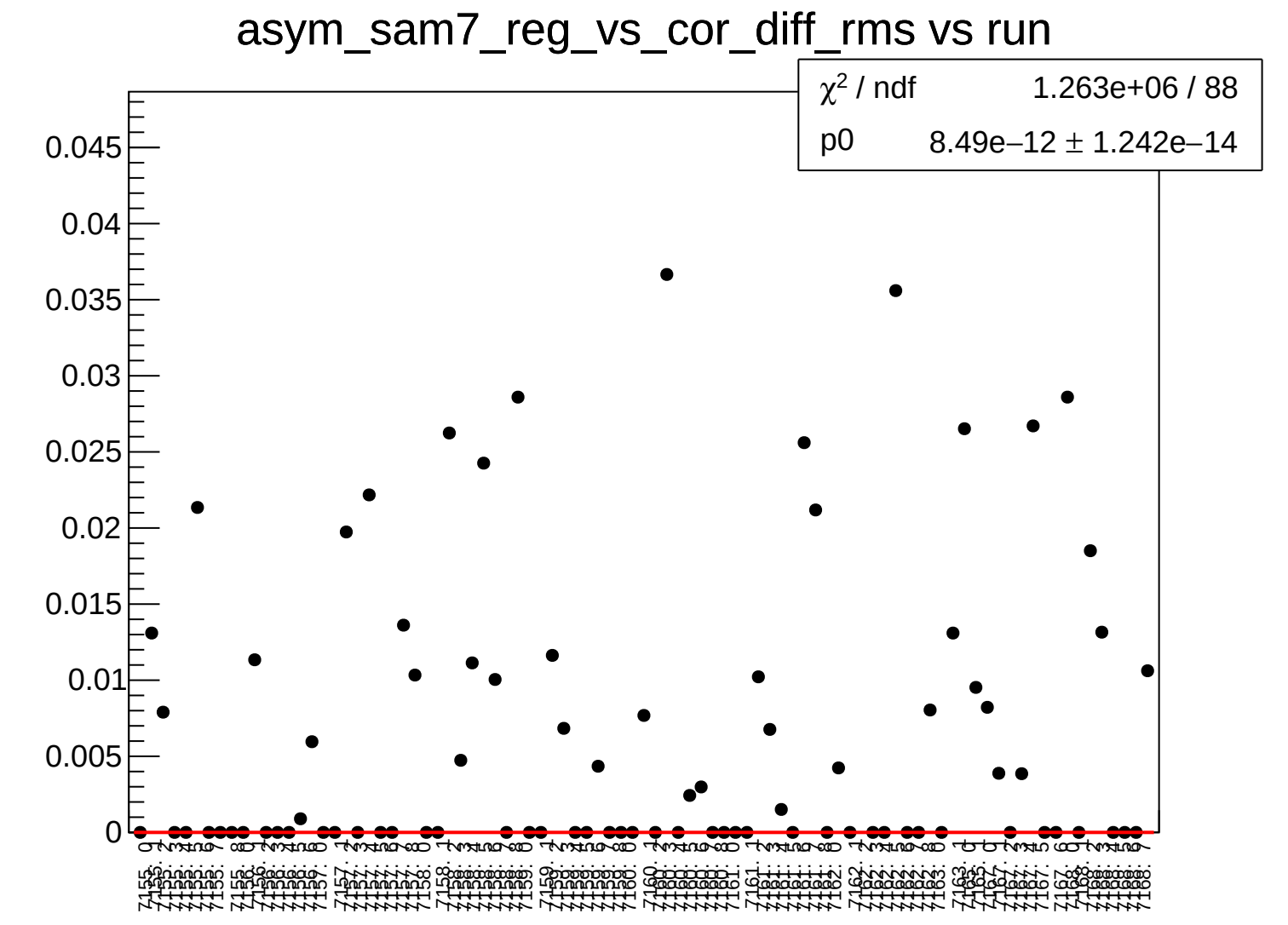

asym_sam7_mean vs run
χ² / ndf 58.19 / 88
p0 −272.4 ± 349.3
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 376.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

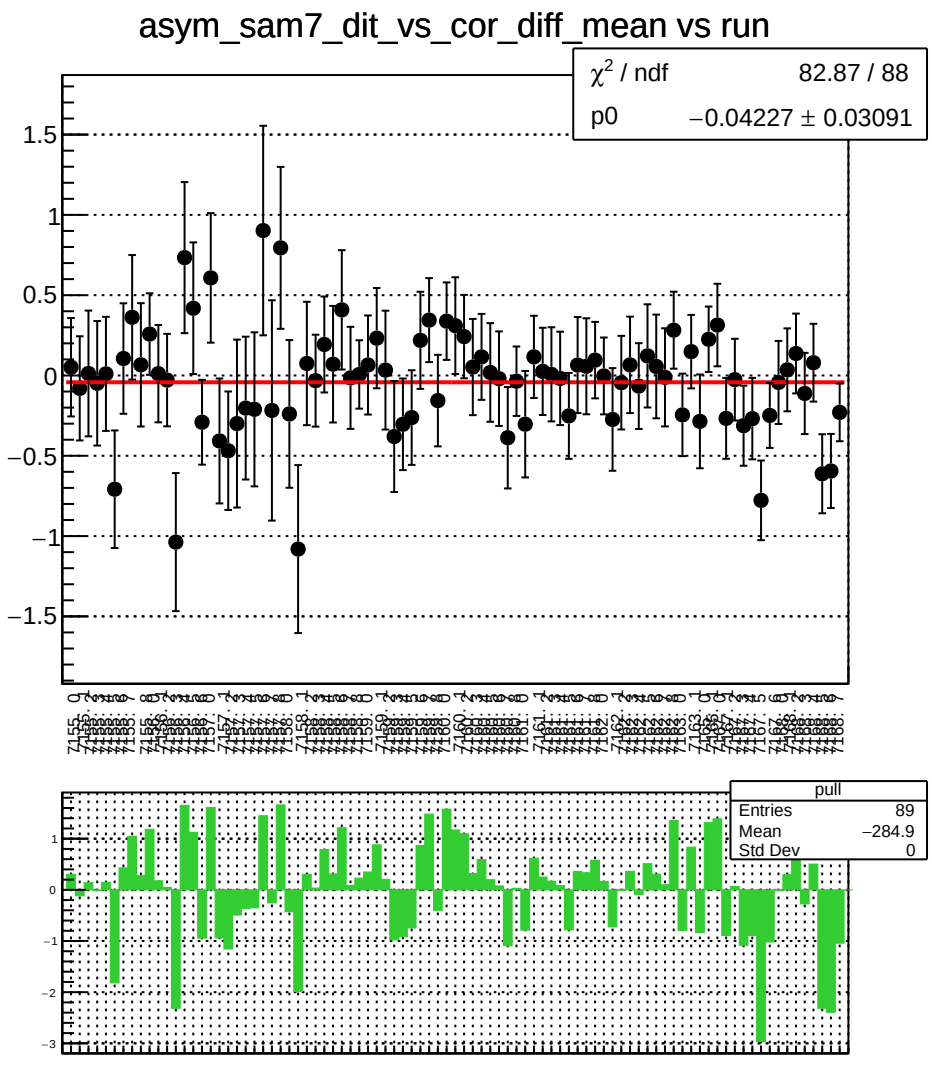

pull1D
Entries 89
Mean 0.002644
Std Dev 0.8086
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

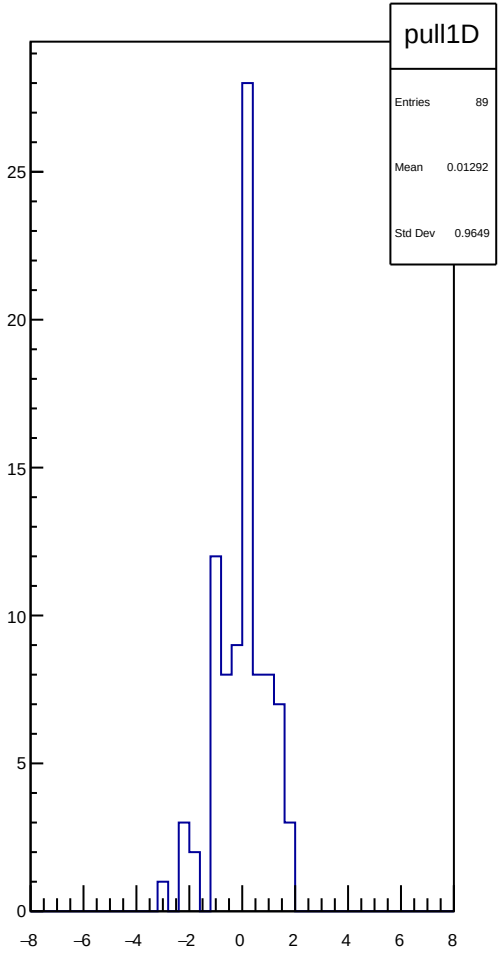

asym_sam7_rms vs run
χ² / ndf 6912 / 88
p0 324.3 ± 0.247
380
360
340
320
300
280

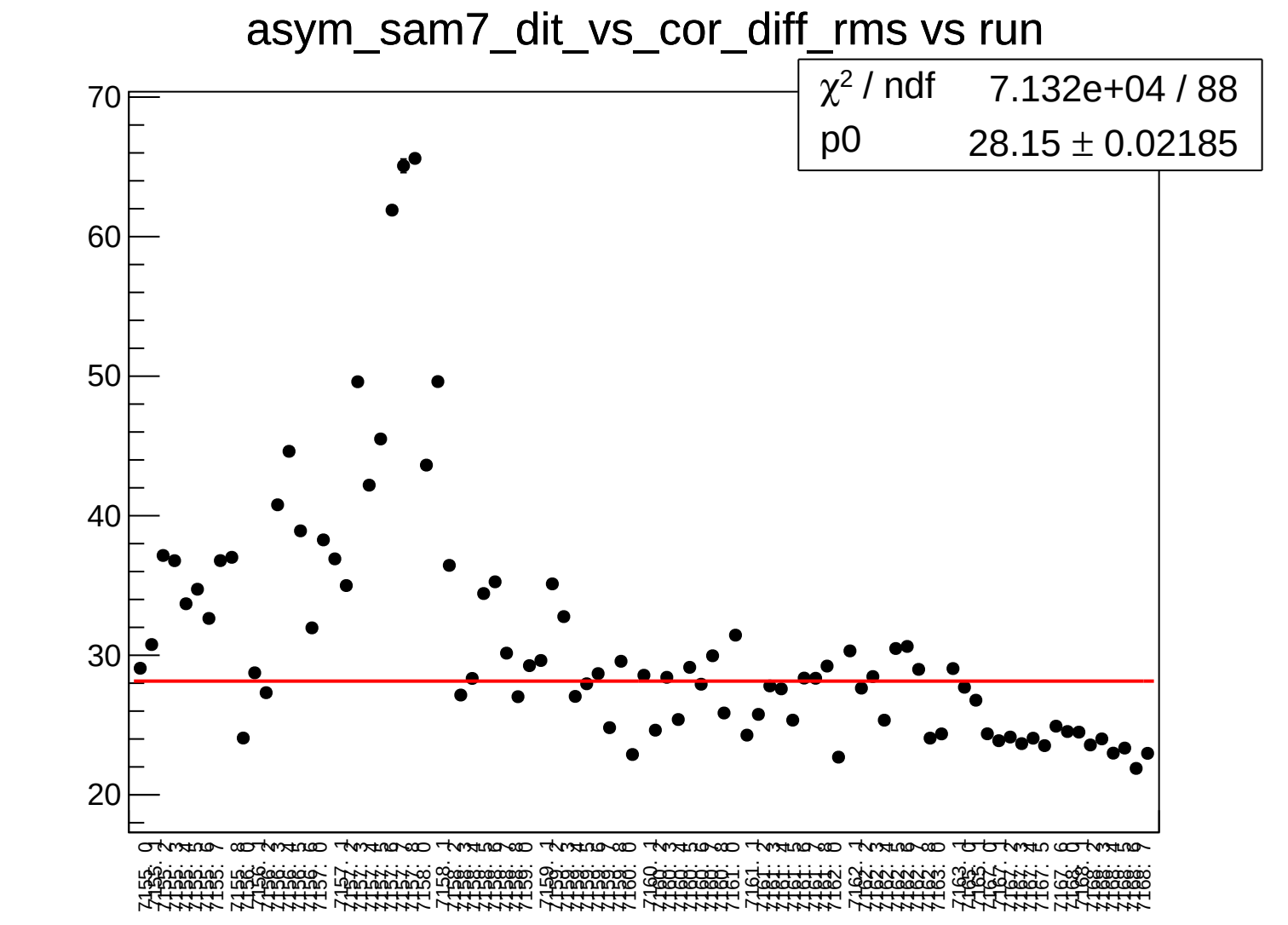

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 89.67 / 88
p0 8.502e−15 ± 1.757e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 89
Mean 52.55
Std Dev 29.05
2
1
0
−1
−2
−3

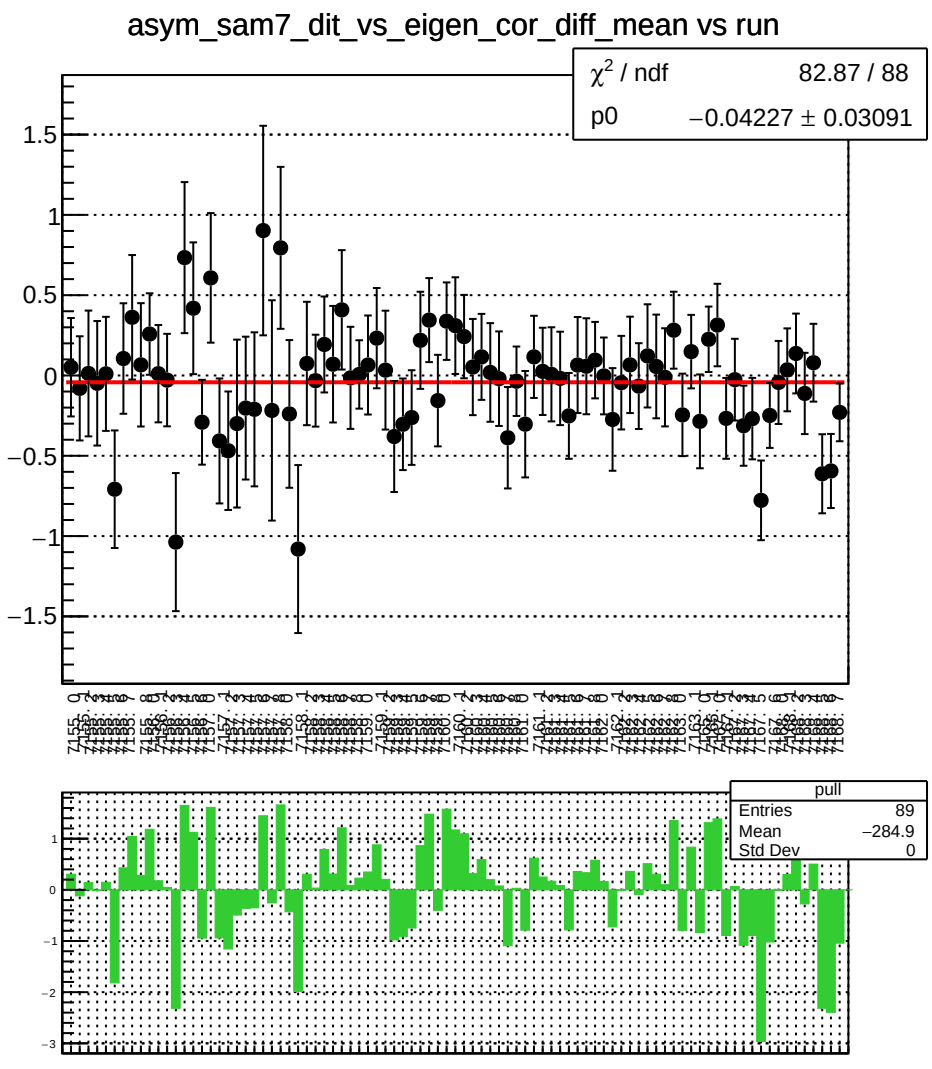

pull1D
Entries 89
Mean −0.1371
Std Dev 0.9944
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

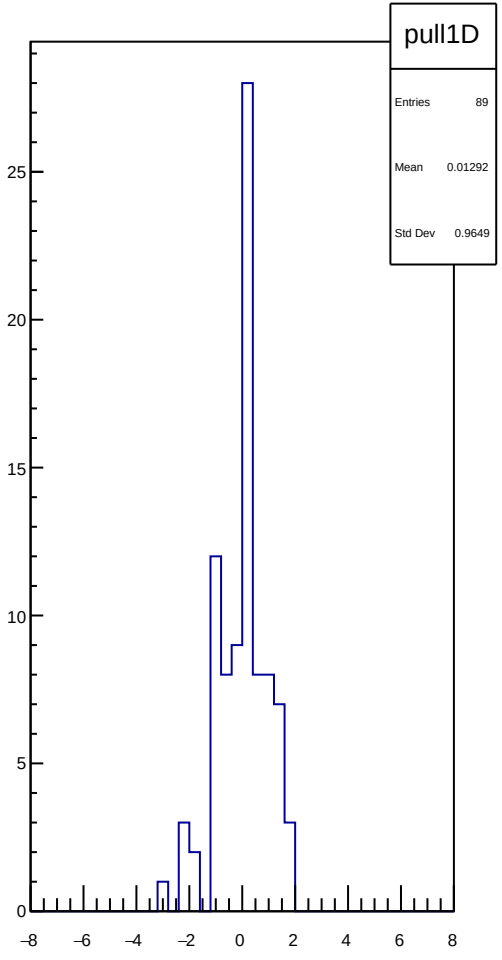

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.263e+06 / 88
p0 8.49e−12 ± 1.242e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

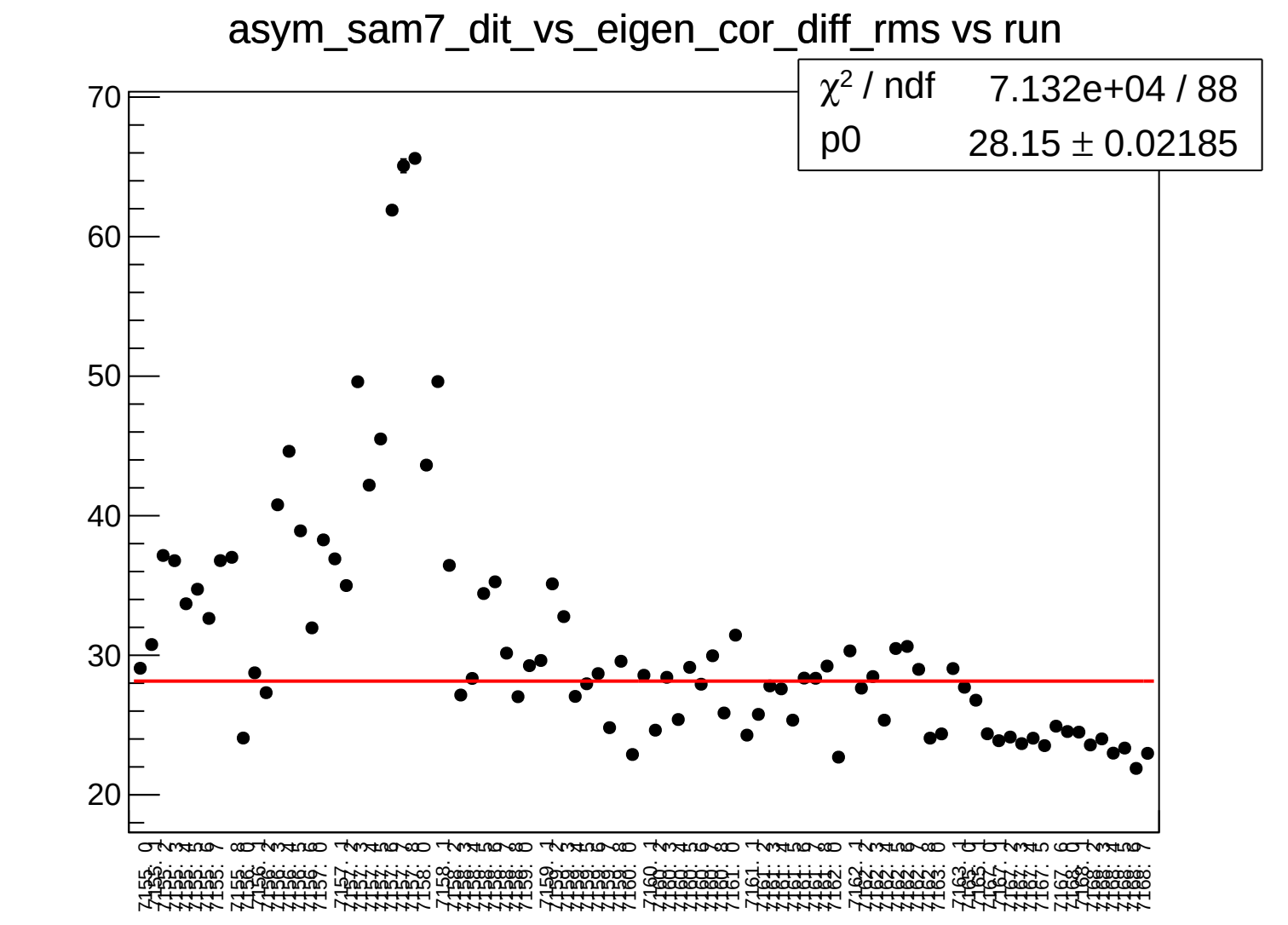

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 88
p0 −0.04227 ± 0.03091
pull
Entries 89
Mean −284.9
Std Dev 0

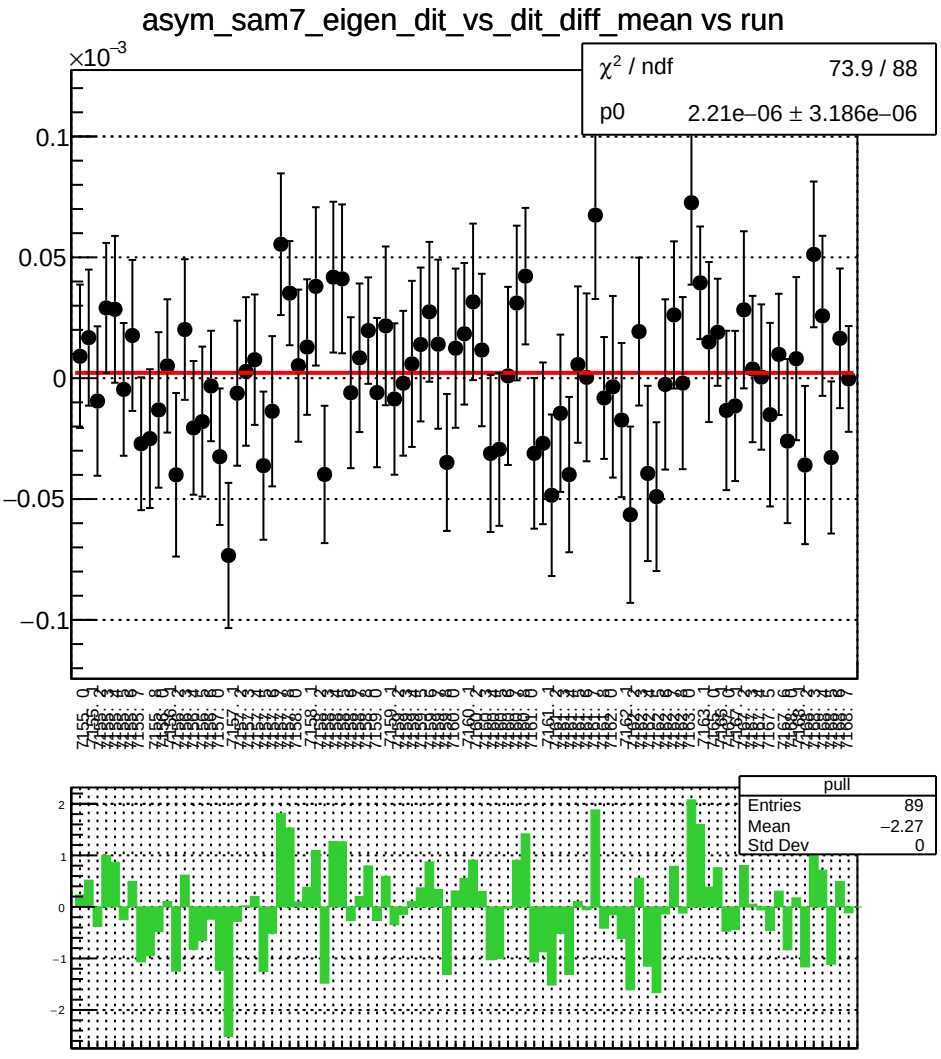

pull1D
Entries 89
Mean 0.01292
Std Dev 0.9649

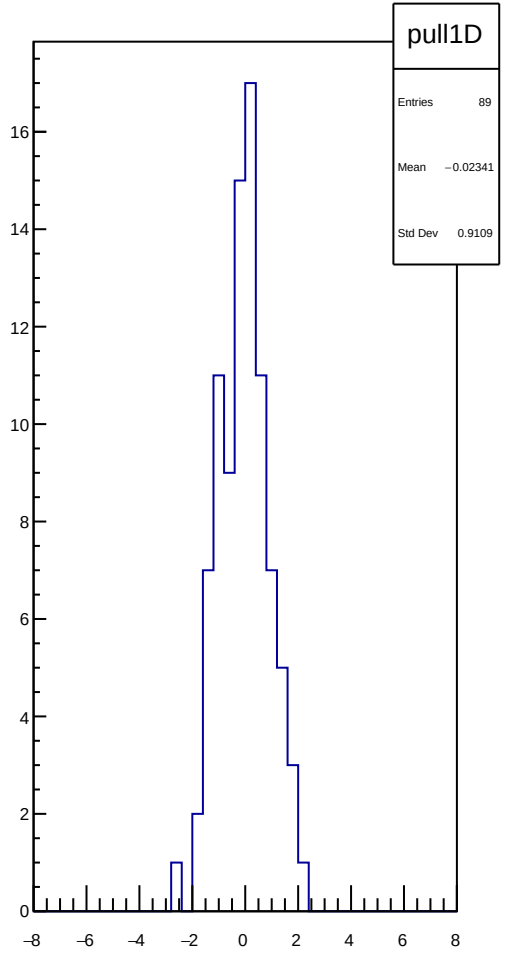

asym_sam7_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.132e+04 / 88
p0 28.15 ± 0.02185
70
60
50
40
30
20

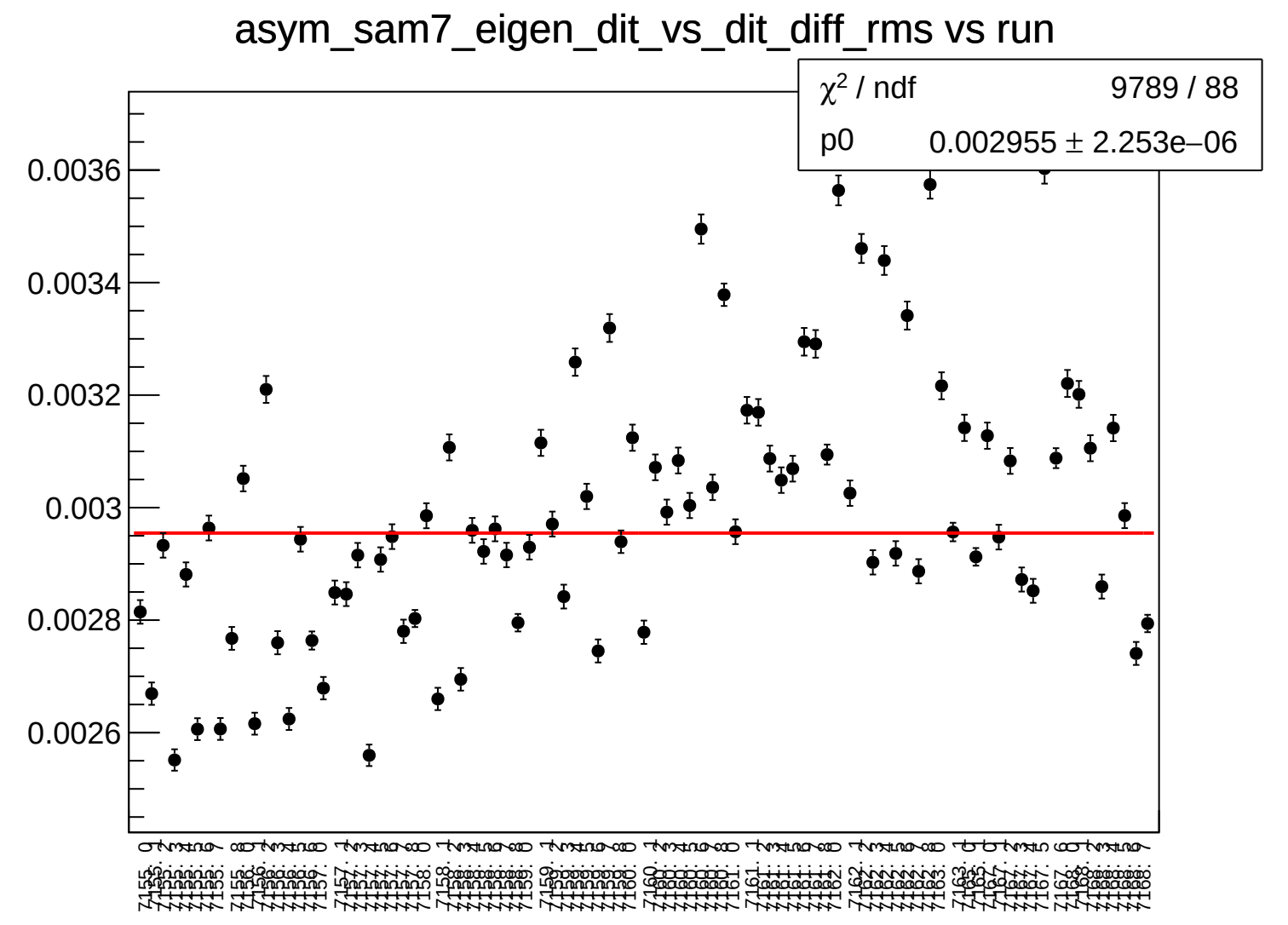

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.87 / 88
p0 −0.04227 ± 0.03091
pull
Entries 89
Mean −284.9
Std Dev 0

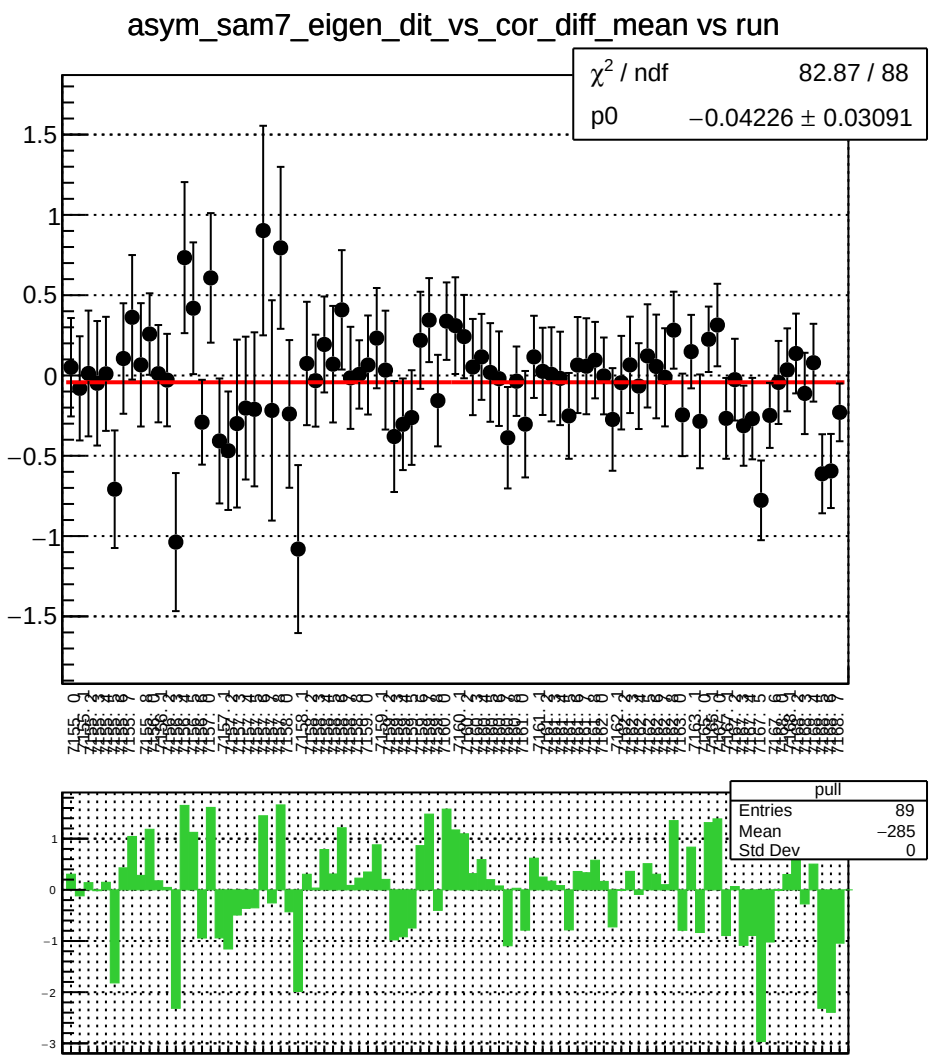

pull1D
Entries 89
Mean 0.01292
Std Dev 0.9649

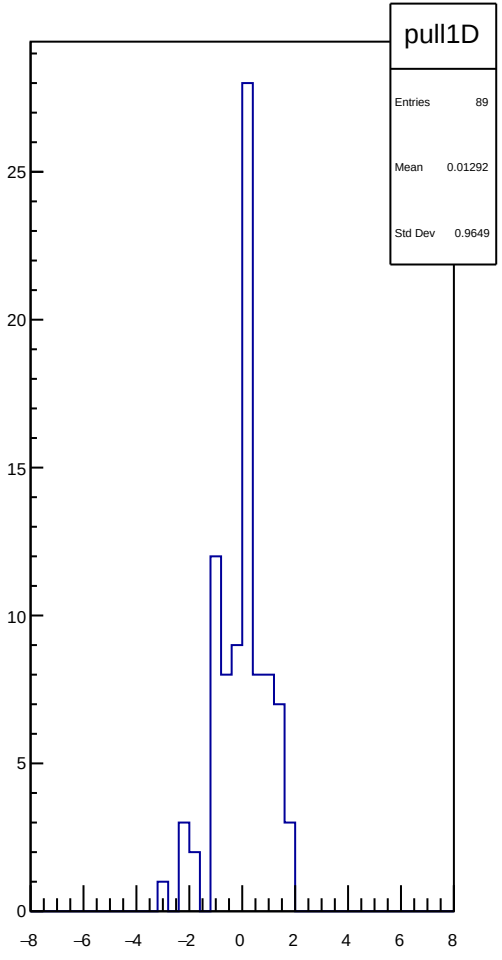

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.132e+04 / 88
p0 28.15 ± 0.02185
70
60
50
40
30
20

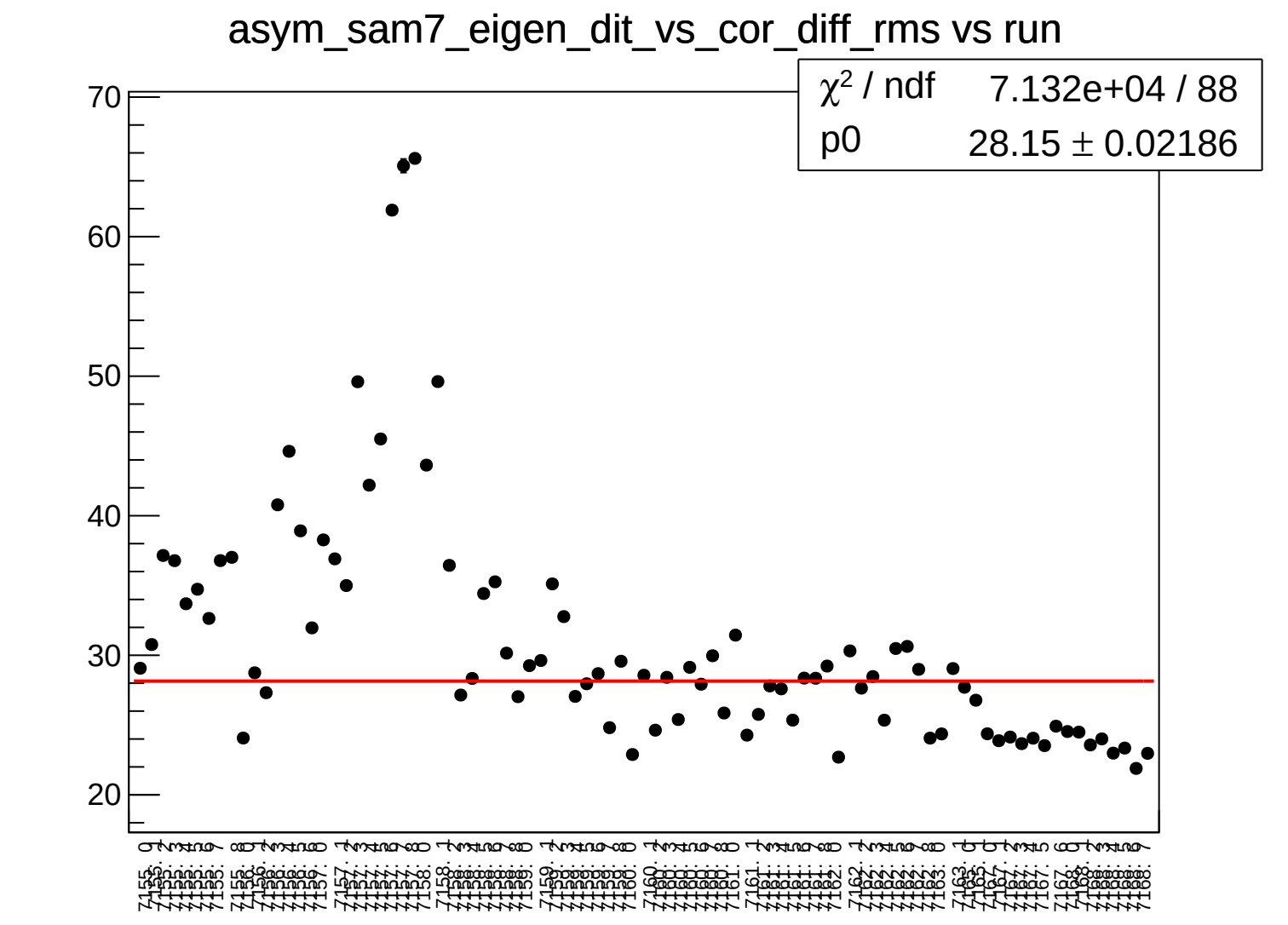

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.9 / 88
p0 2.21e−06 ± 3.186e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −2.27
Std Dev 0
2
1
0
−1
−2

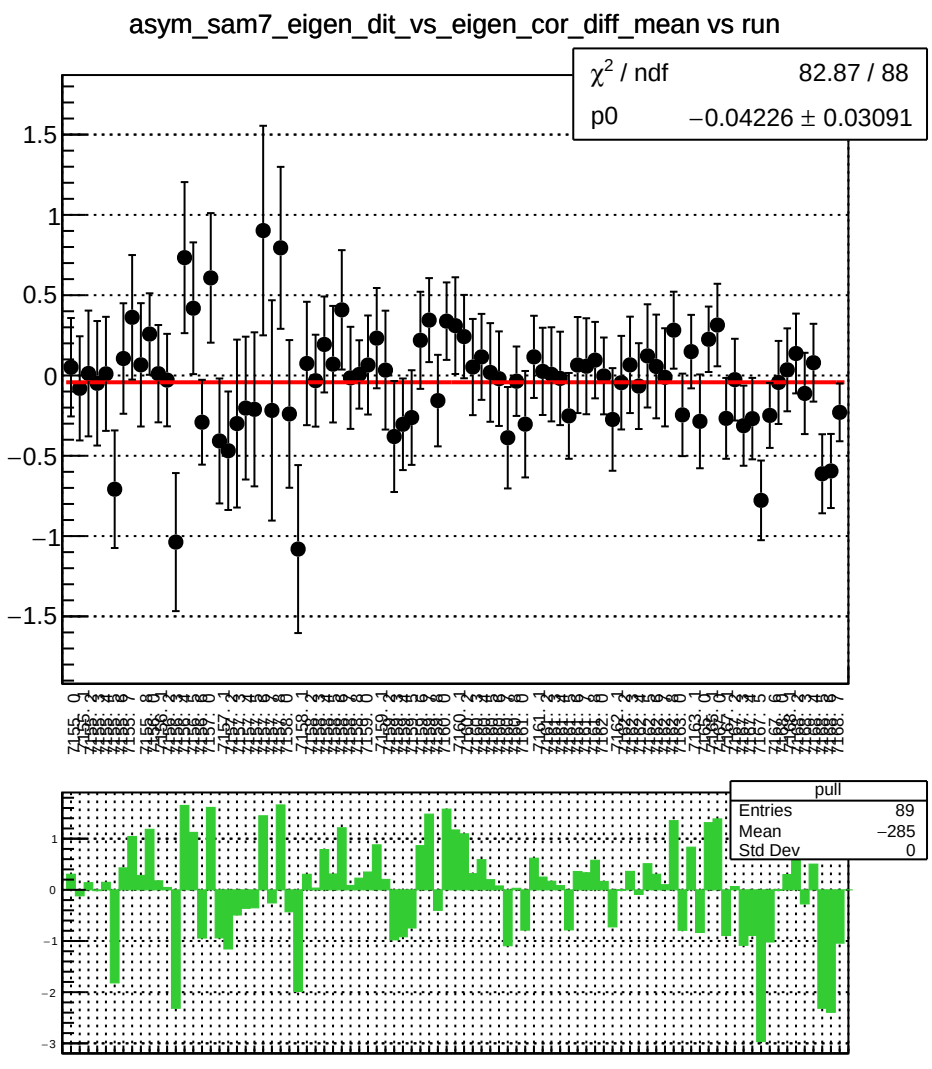

pull1D
Entries 89
Mean −0.02341
Std Dev 0.9109
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

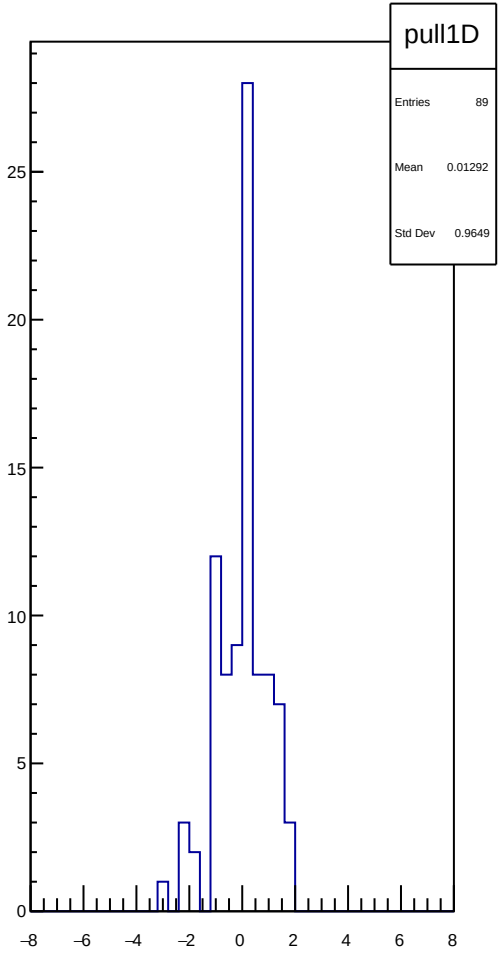

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9789 / 88
p0 0.002955 ± 2.253e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

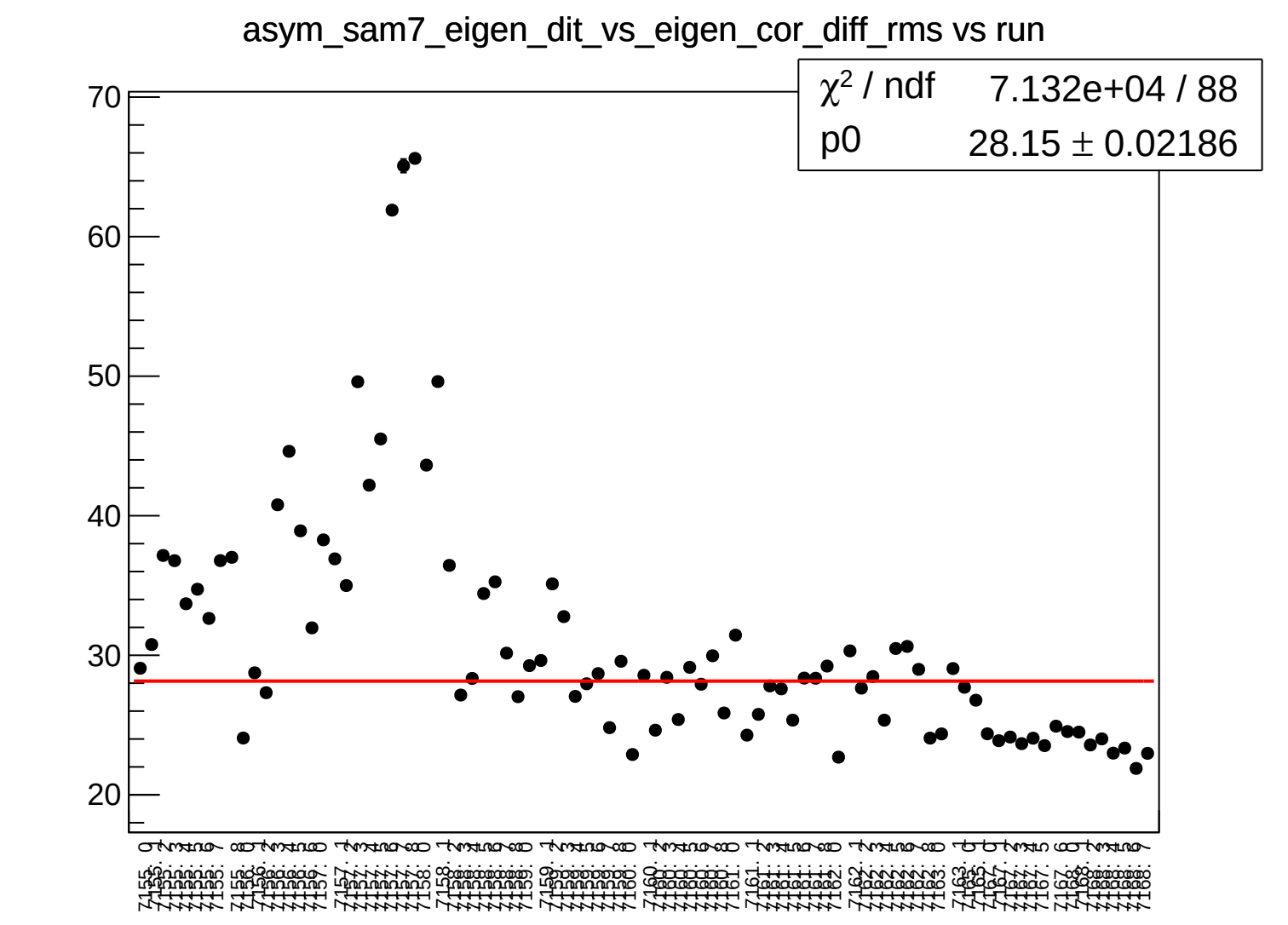

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.87 / 88
p0 −0.04226 ± 0.03091
pull
Entries 89
Mean −285
Std Dev 0

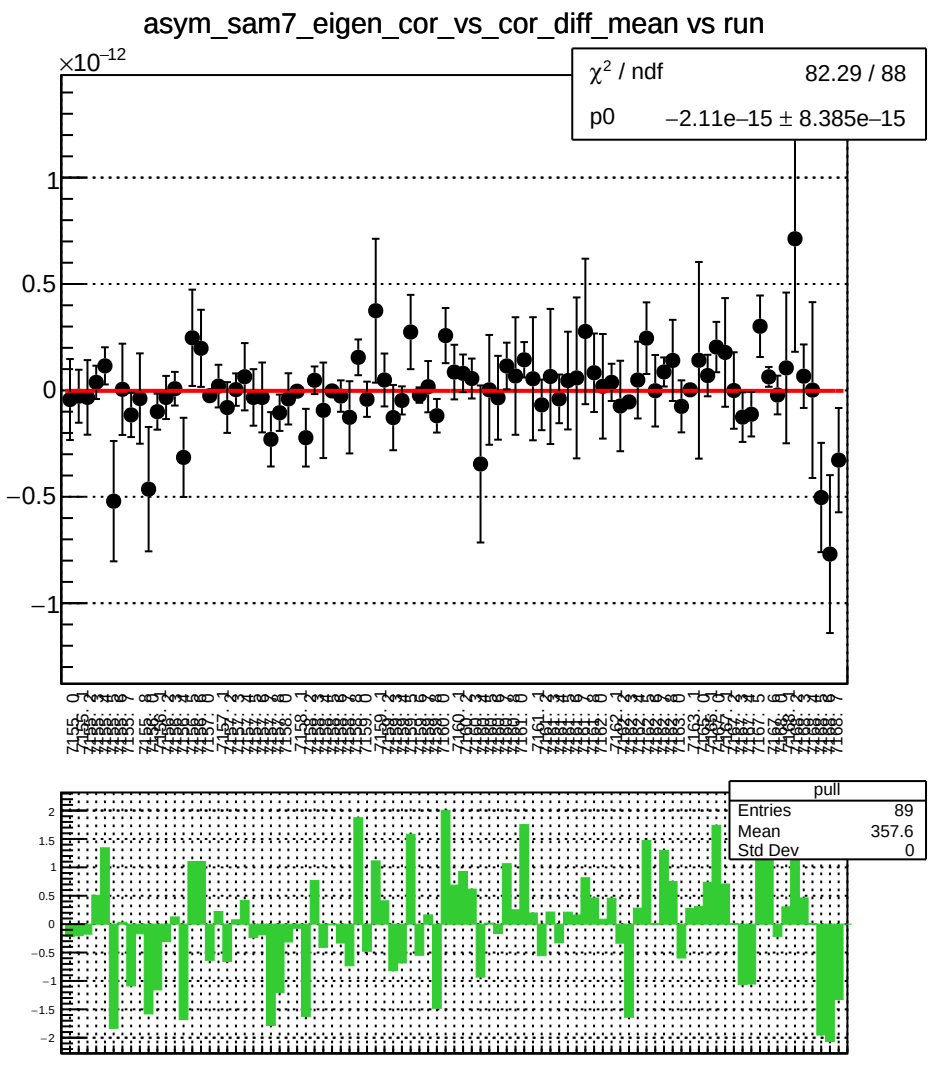

pull1D
Entries 89
Mean 0.01292
Std Dev 0.9649

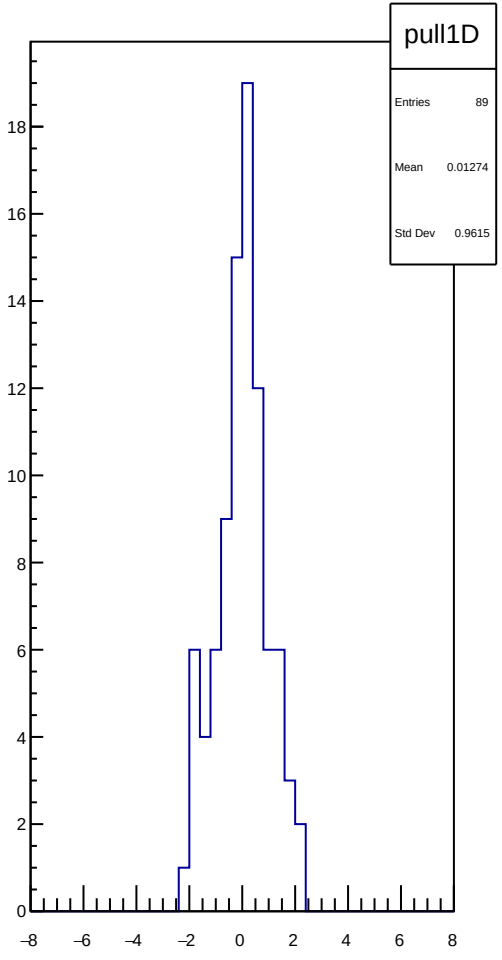

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 7.132e+04 / 88
p0 28.15 ± 0.02186
70
60
50
40
30
20

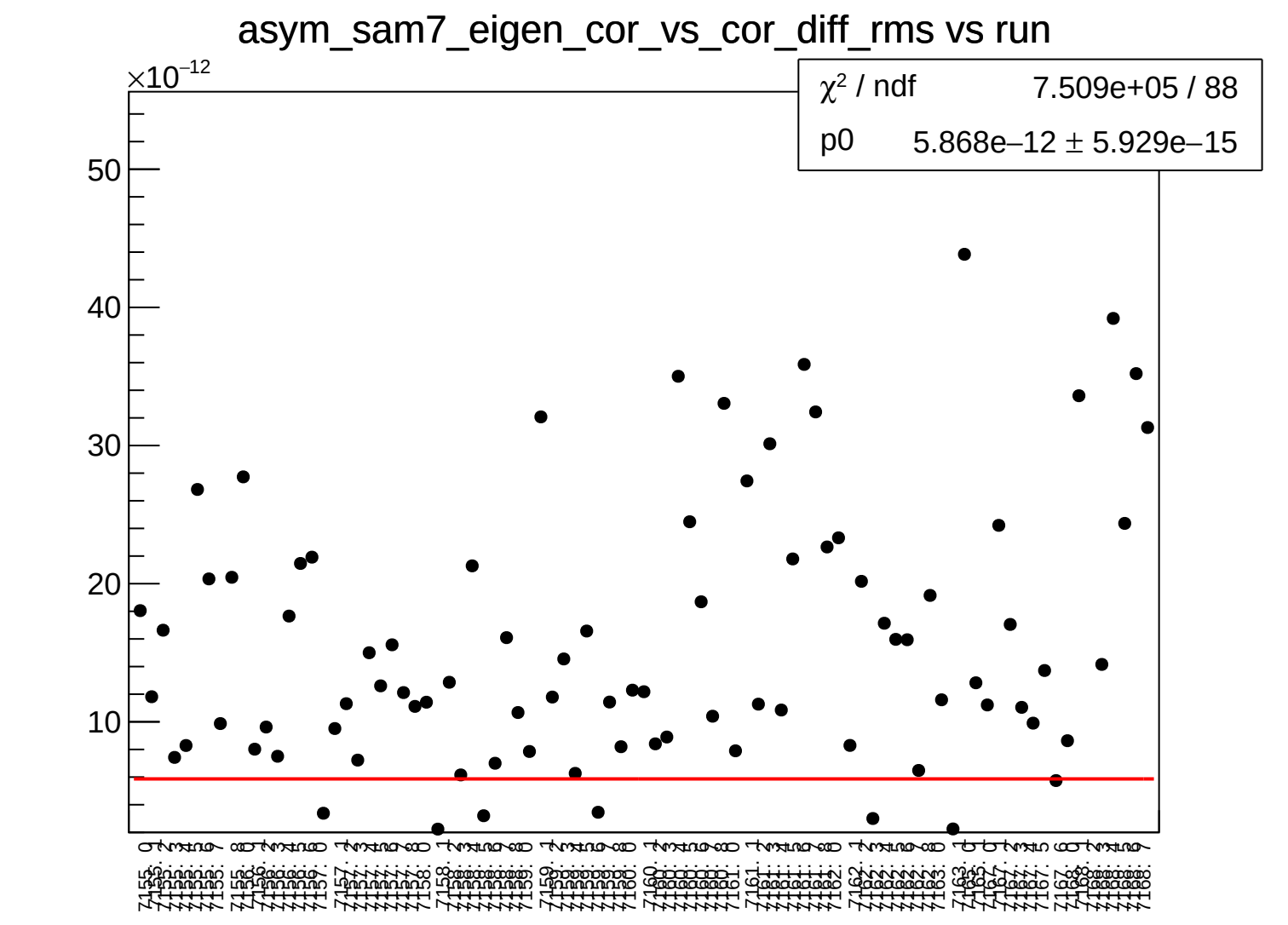

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.87 / 88
p0 −0.04226 ± 0.03091
pull
Entries 89
Mean −285
Std Dev 0

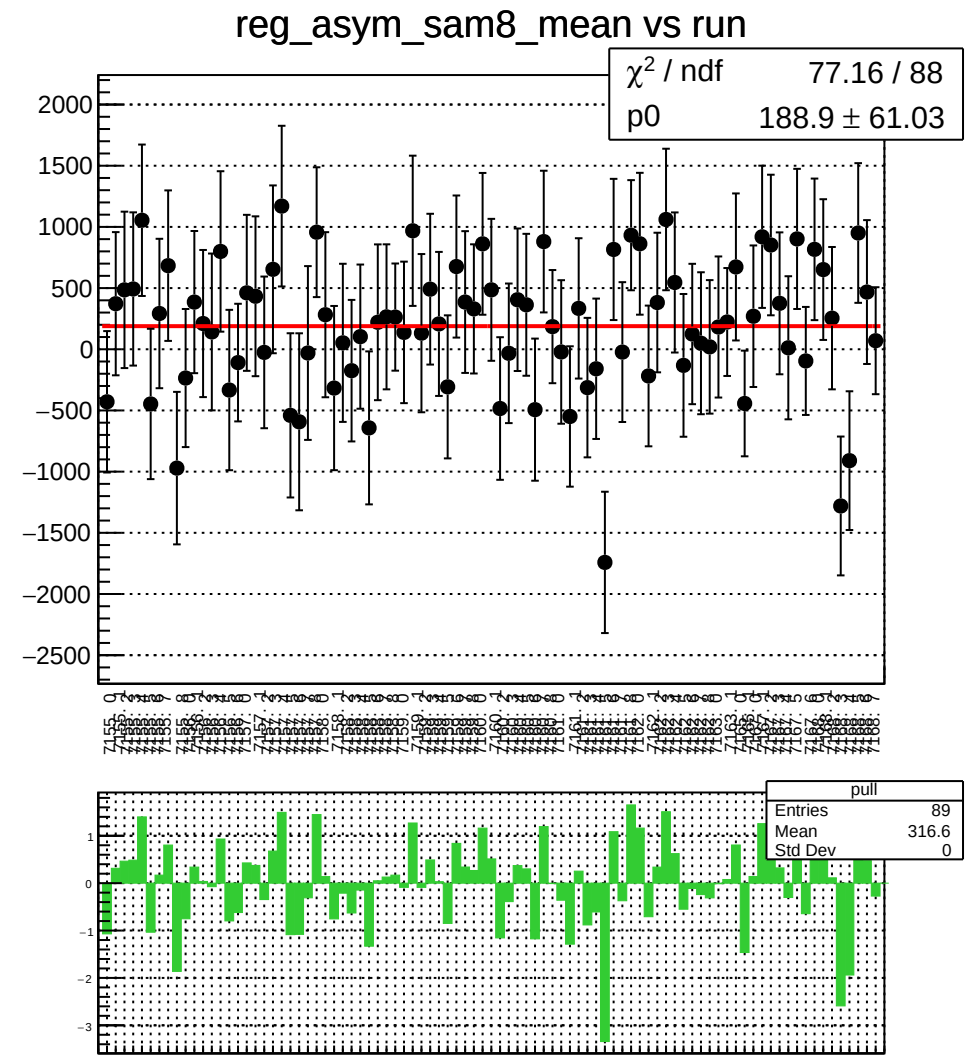

pull1D
Entries 89
Mean 0.01292
Std Dev 0.9649

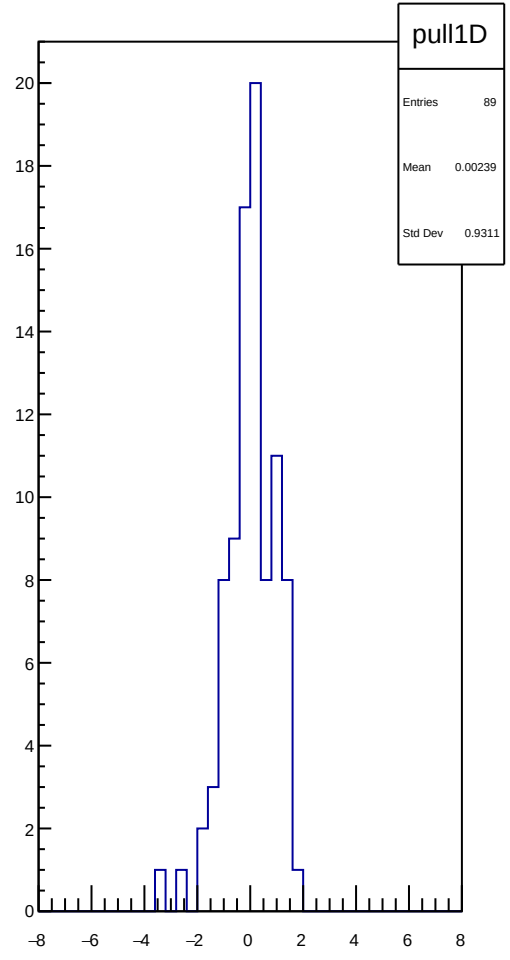

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 7.132e+04 / 88
p0 28.15 ± 0.02186
70
60
50
40
30
20

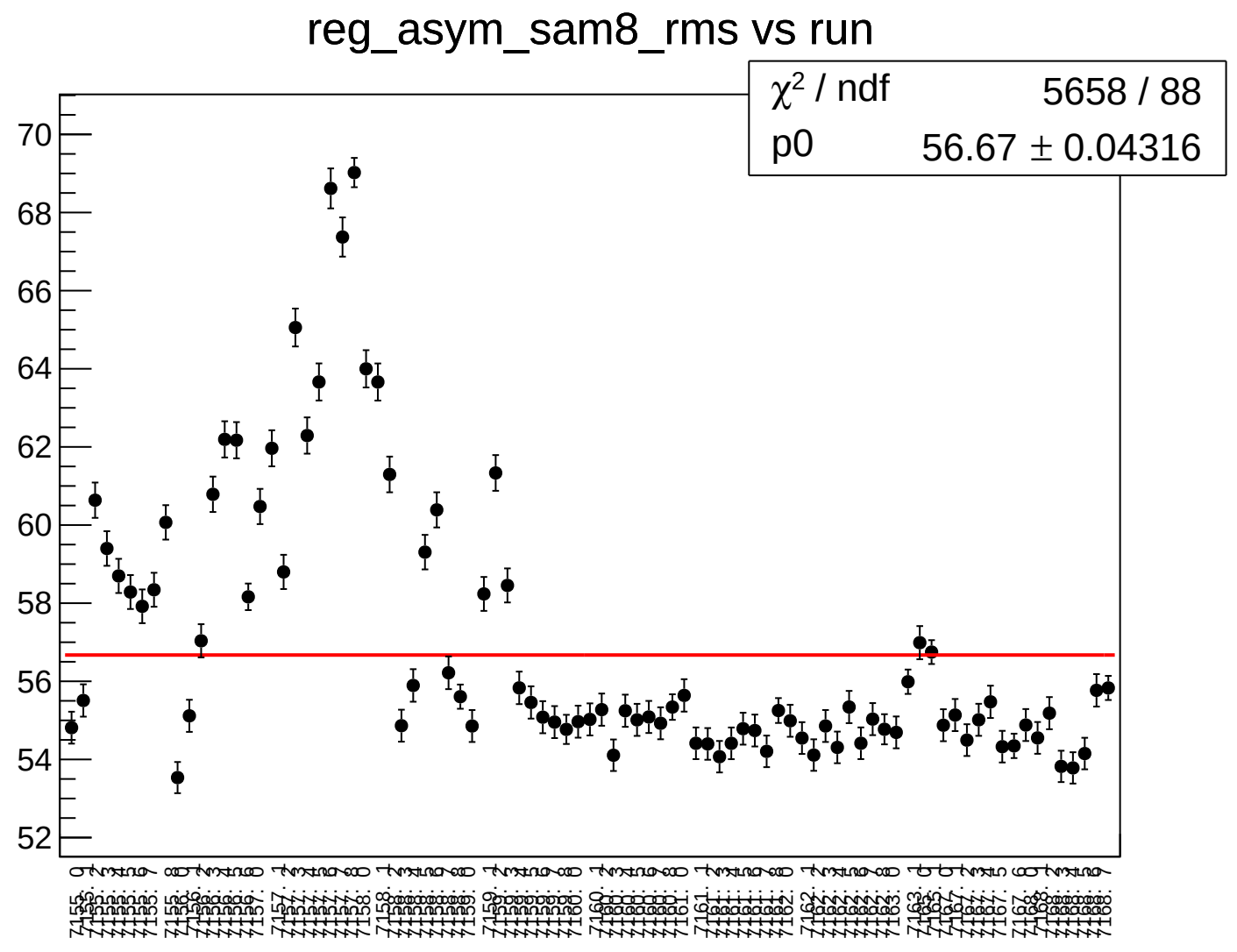

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.29 / 88
p0 −2.11e−15 ± 8.385e−15
pull
Entries 89
Mean 357.6
Std Dev 0

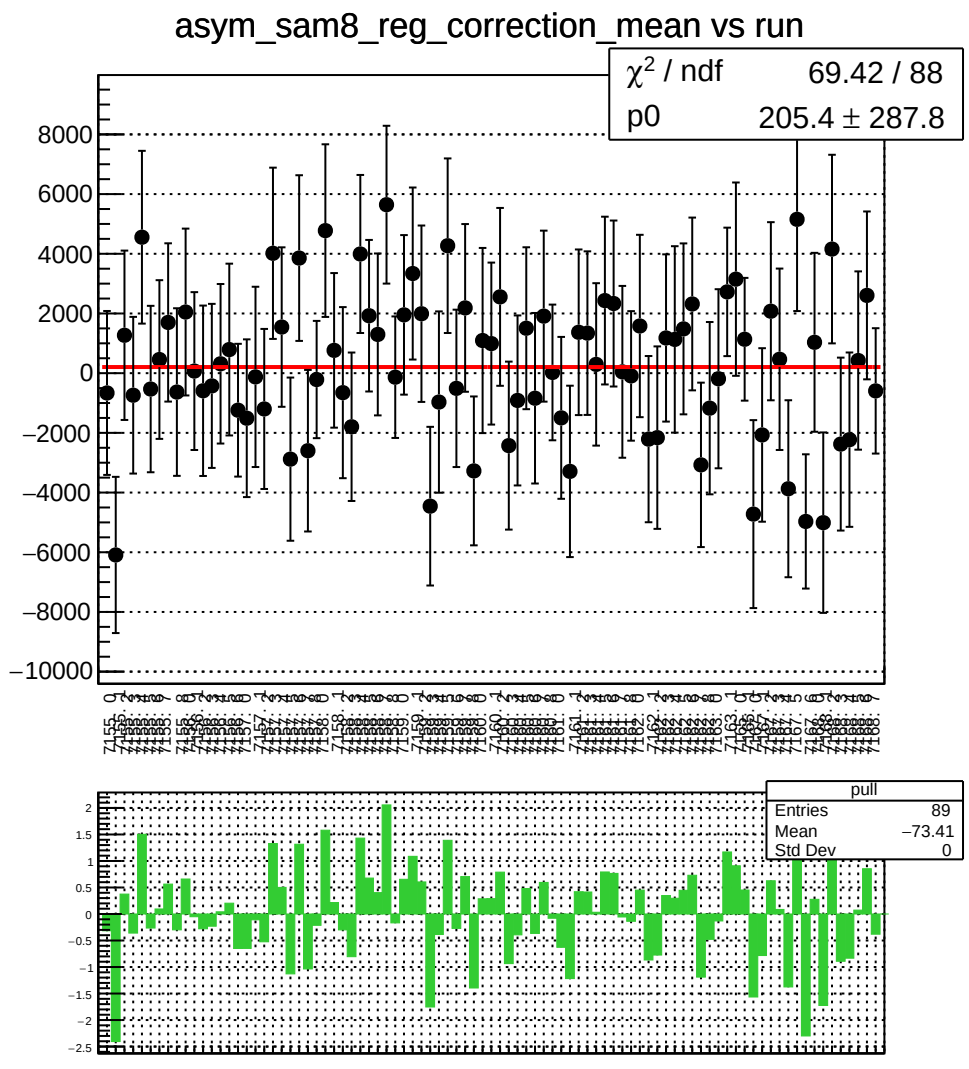

pull1D
Entries 89
Mean 0.01274
Std Dev 0.9615

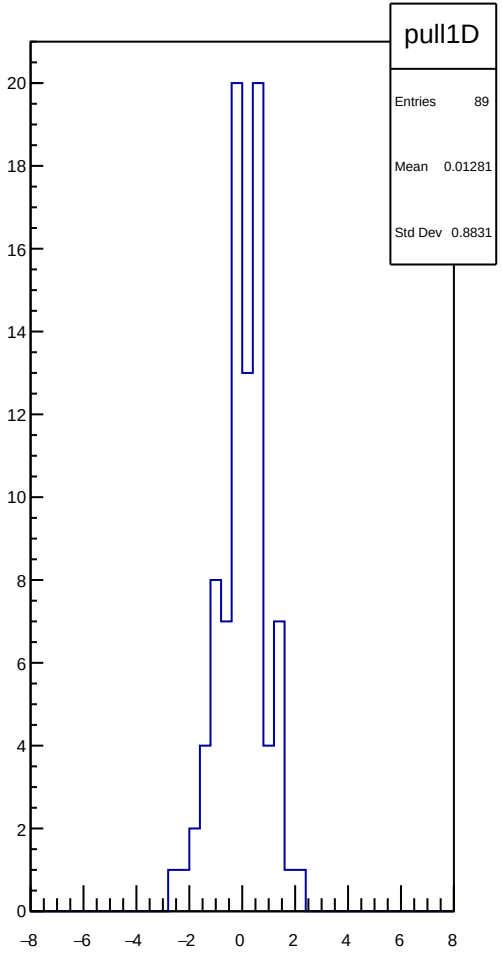

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.509e+05 / 88
p0 5.868e−12 ± 5.929e−15
50
40
30
20
10

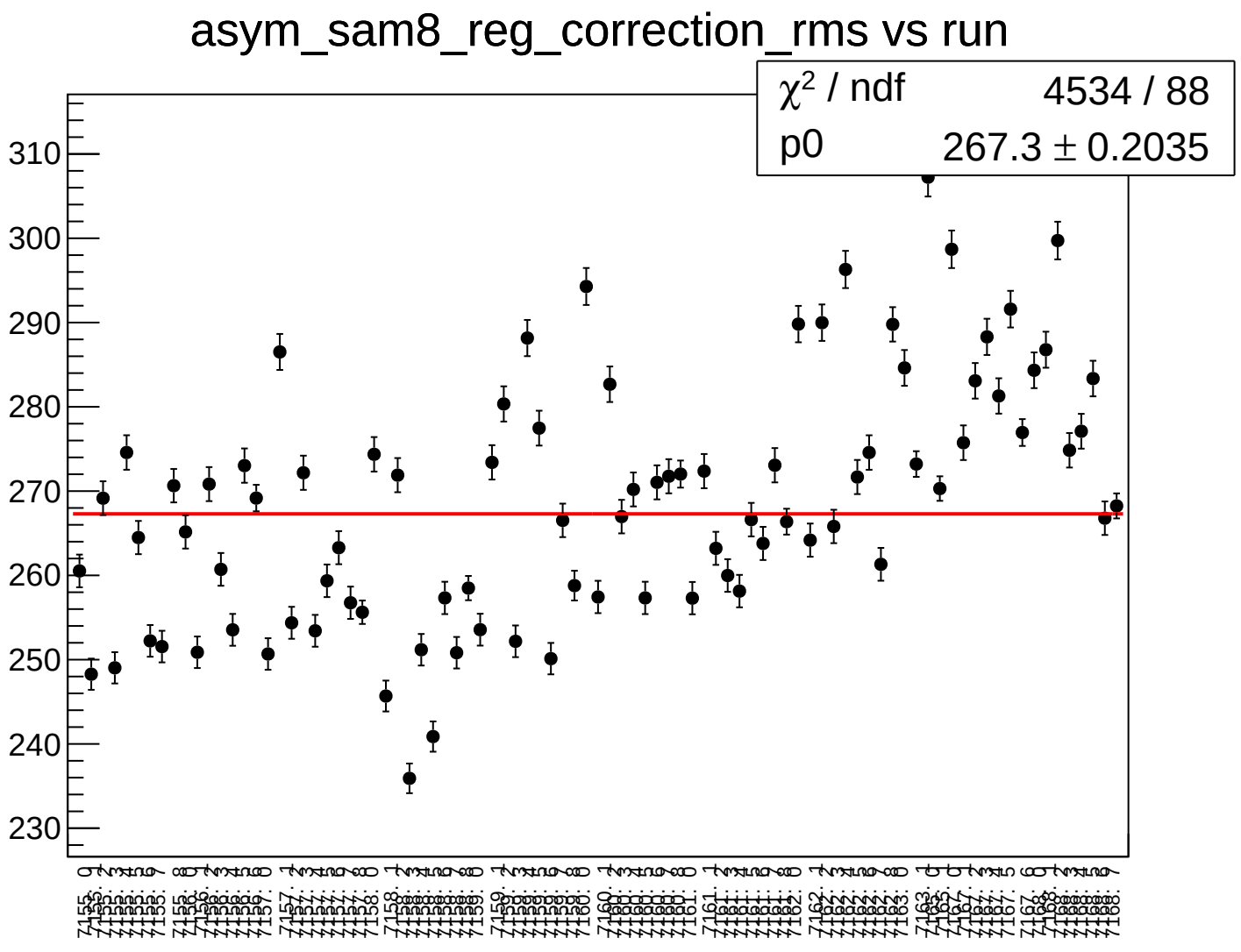

reg_asym_sam8_mean vs run
χ^2 / ndf 77.16 / 88
p0 188.9 ± 61.03
pull
Entries 89
Mean 316.6
Std Dev 0

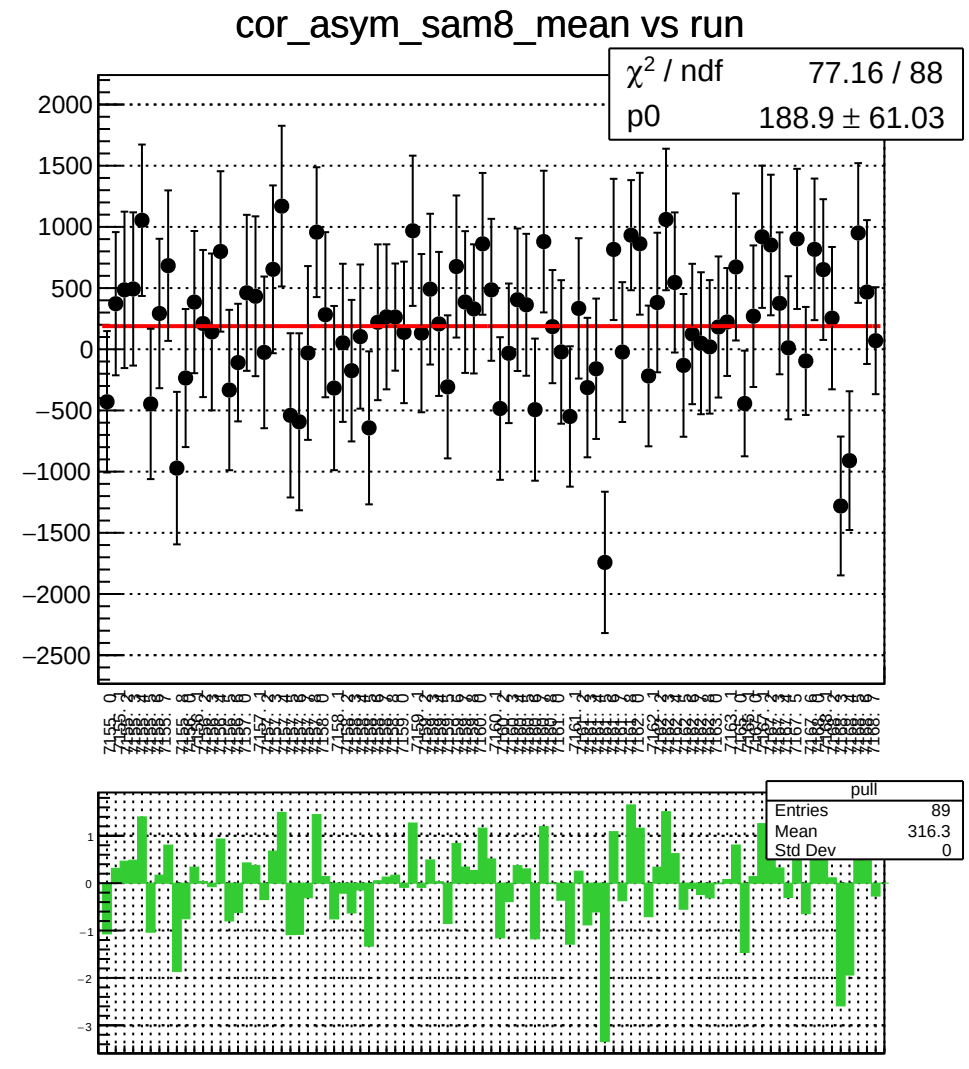

pull1D
Entries 89
Mean 0.00239
Std Dev 0.9311

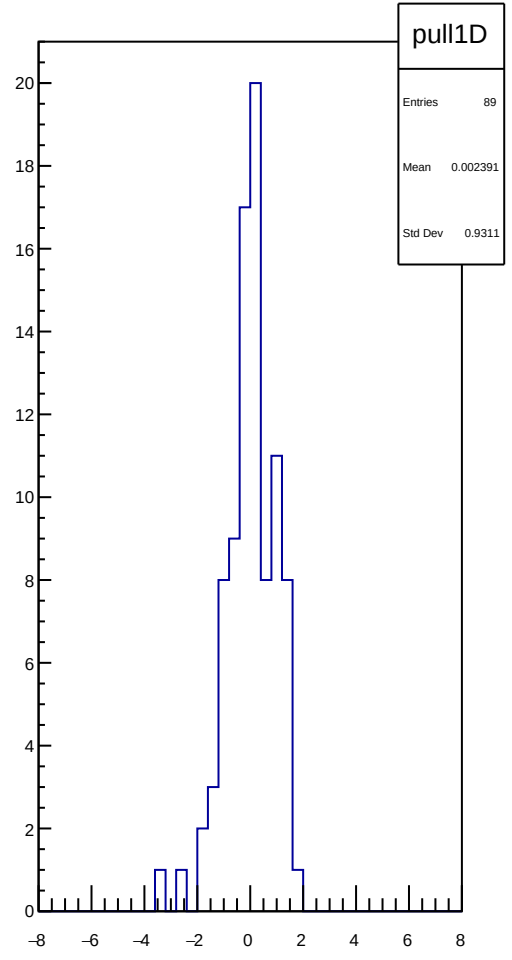

reg_asym_sam8_rms vs run
χ^2 / ndf 5658 / 88
p0 56.67 ± 0.04316
70
68
66
64
62
60
58
56
54
52

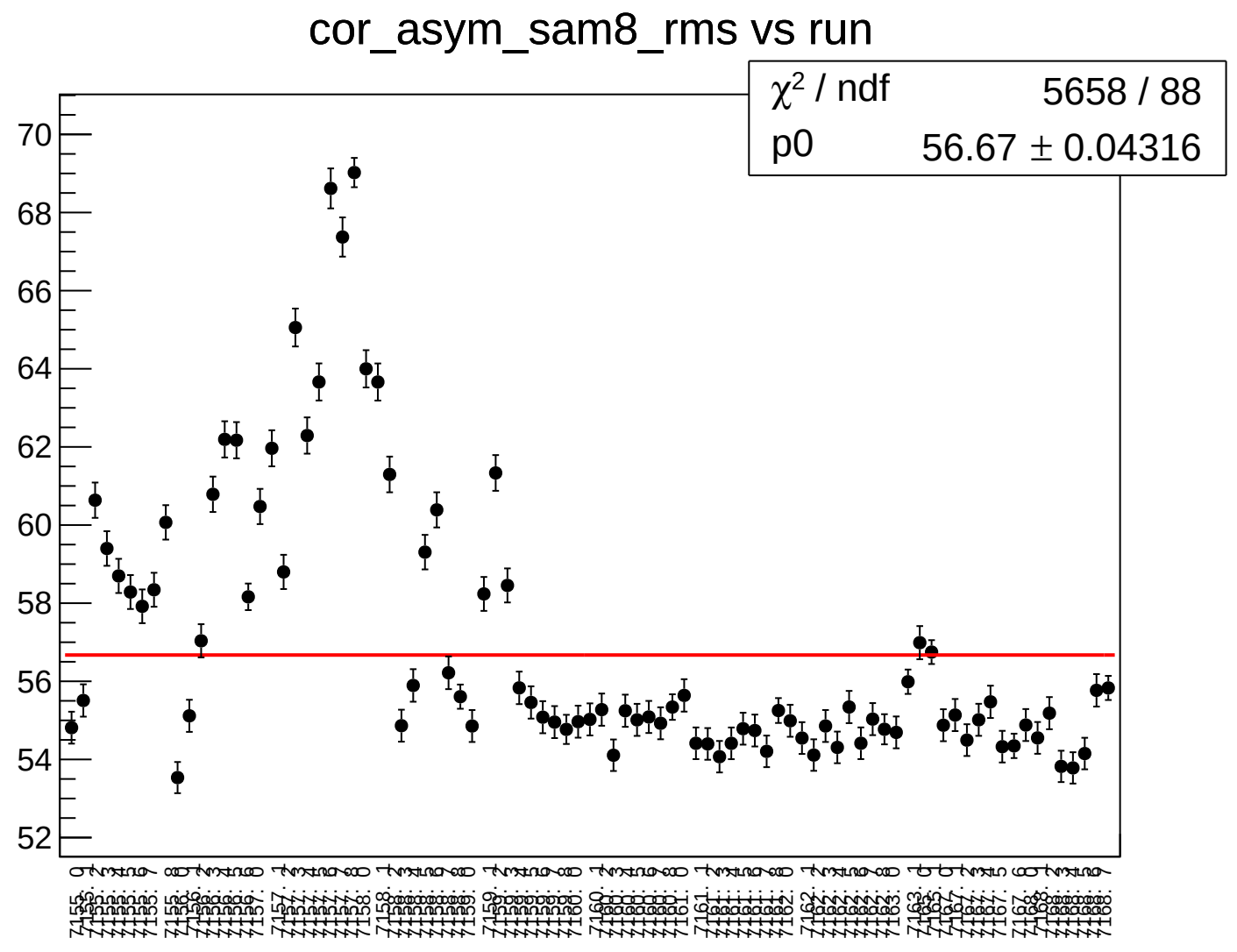

asym_sam8_reg_correction_mean vs run
χ² / ndf 69.42 / 88
p0 205.4 ± 287.8
pull
Entries 89
Mean −73.41
Std Dev 0

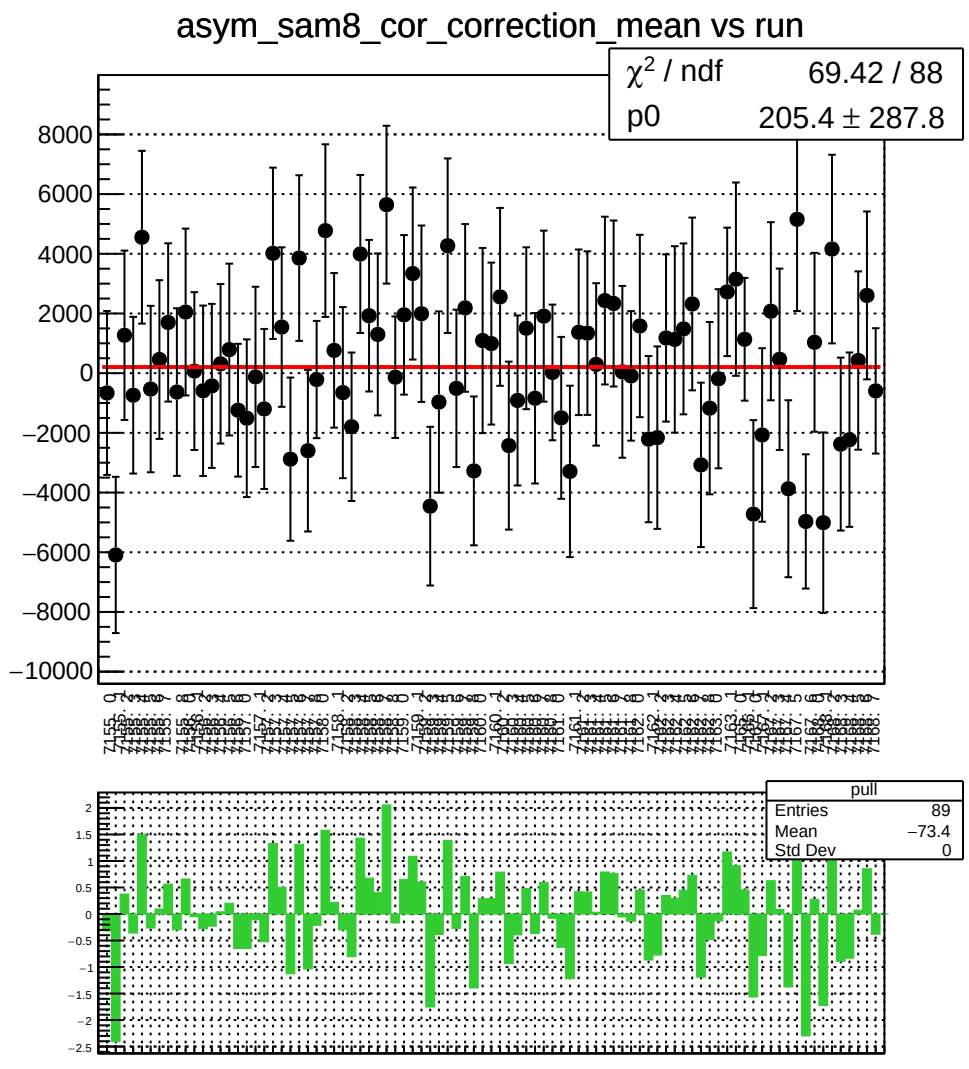

pull1D
Entries 89
Mean 0.01281
Std Dev 0.8831

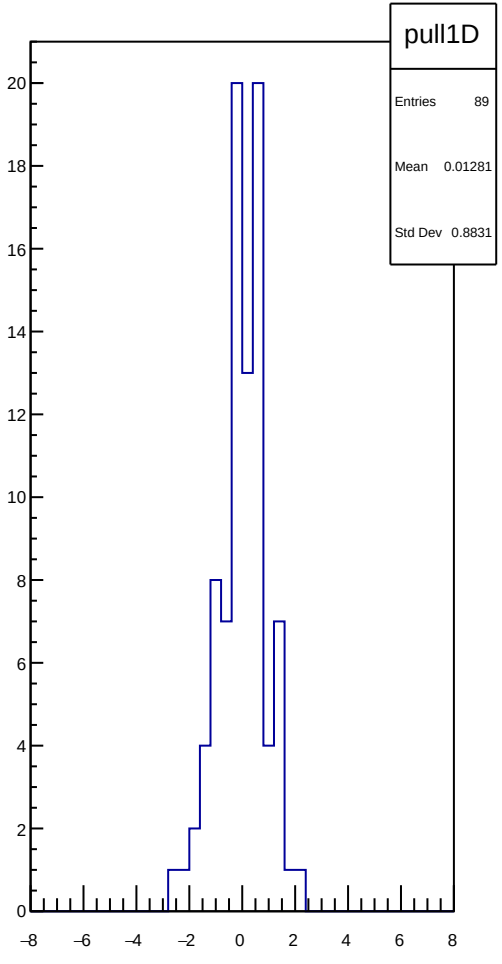

asym_sam8_reg_correction_rms vs run
χ² / ndf 4534 / 88
p0 267.3 ± 0.2035
310
300
290
280
270
260
250
240
230

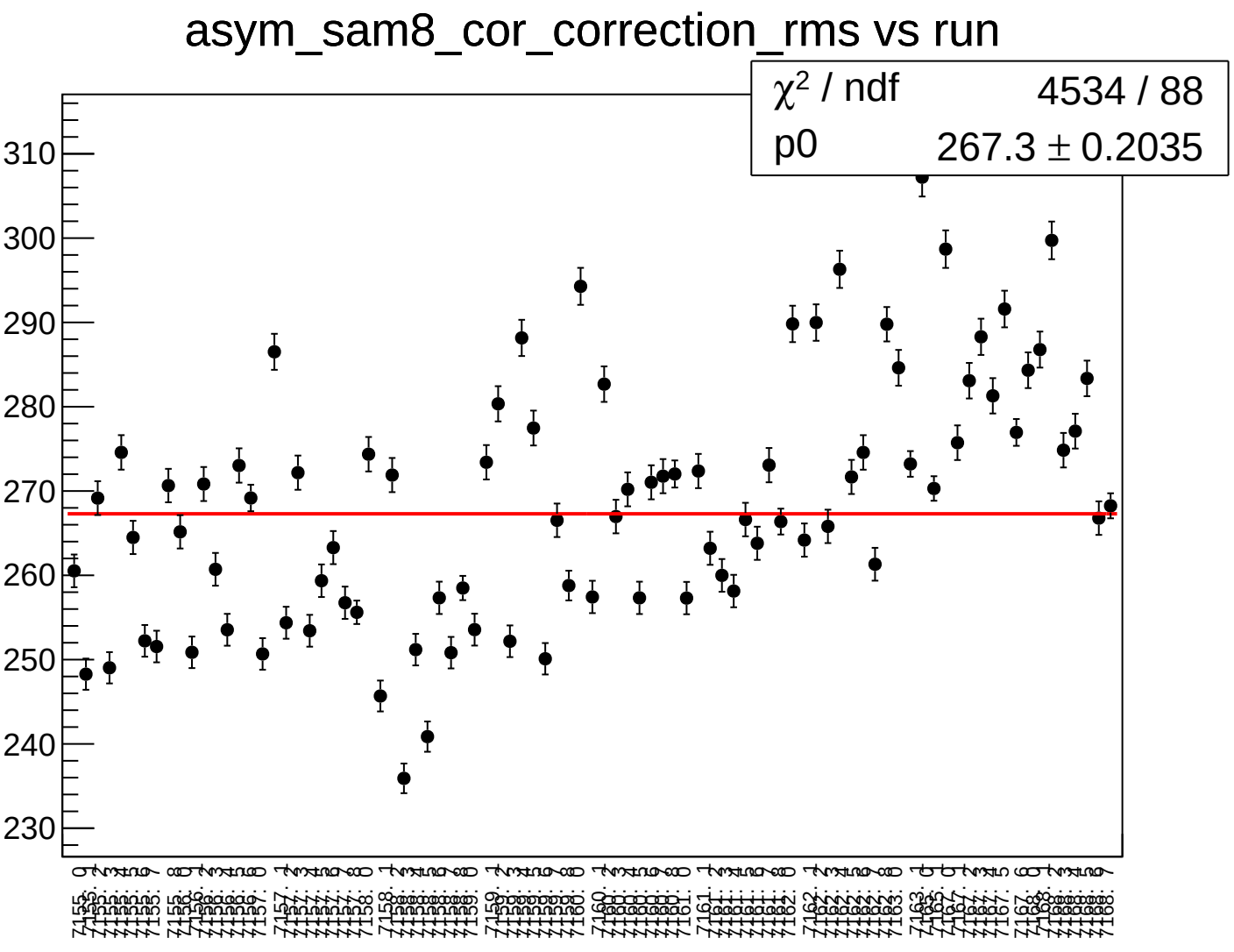

cor_asym_sam8_mean vs run
χ^2 / ndf 77.16 / 88
p0 188.9 ± 61.03
pull
Entries 89
Mean 316.3
Std Dev 0

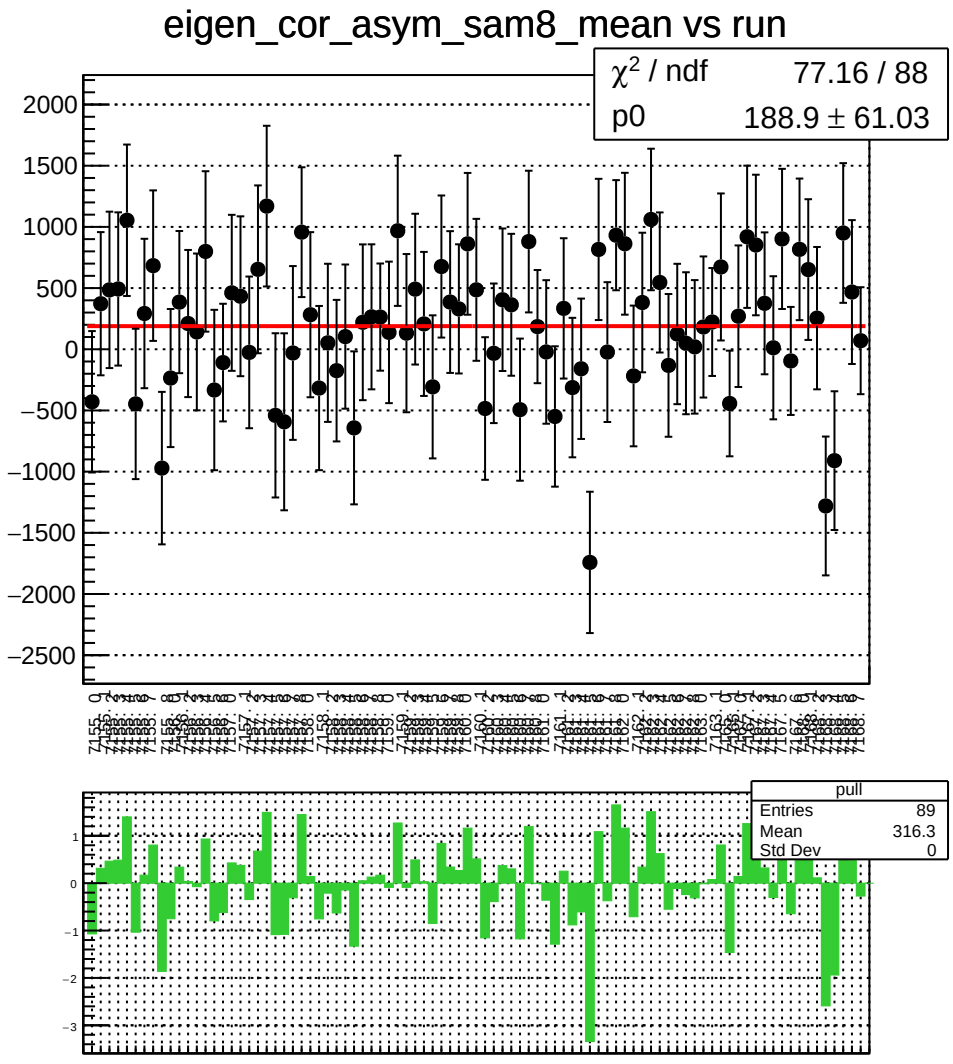

pull1D
Entries 89
Mean 0.002391
Std Dev 0.9311

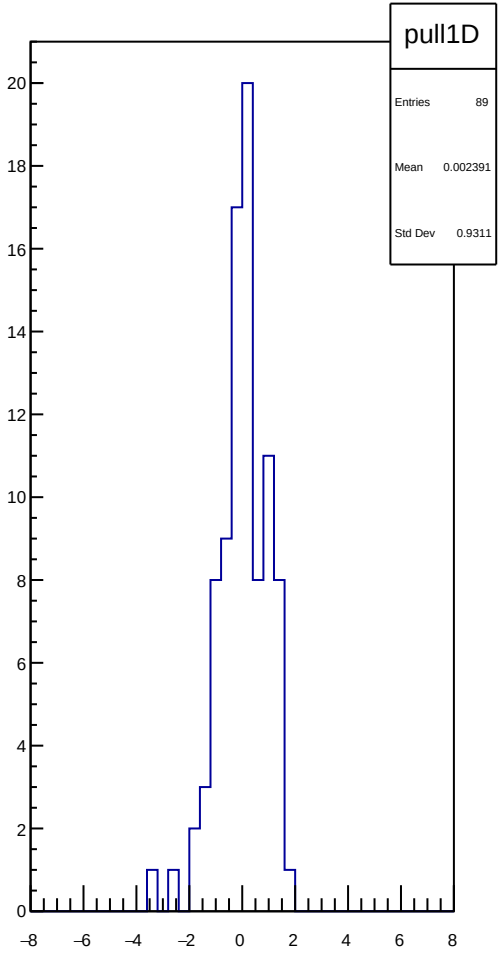

cor_asym_sam8_rms vs run
χ^2 / ndf 5658 / 88
p0 56.67 ± 0.04316
70
68
66
64
62
60
58
56
54
52

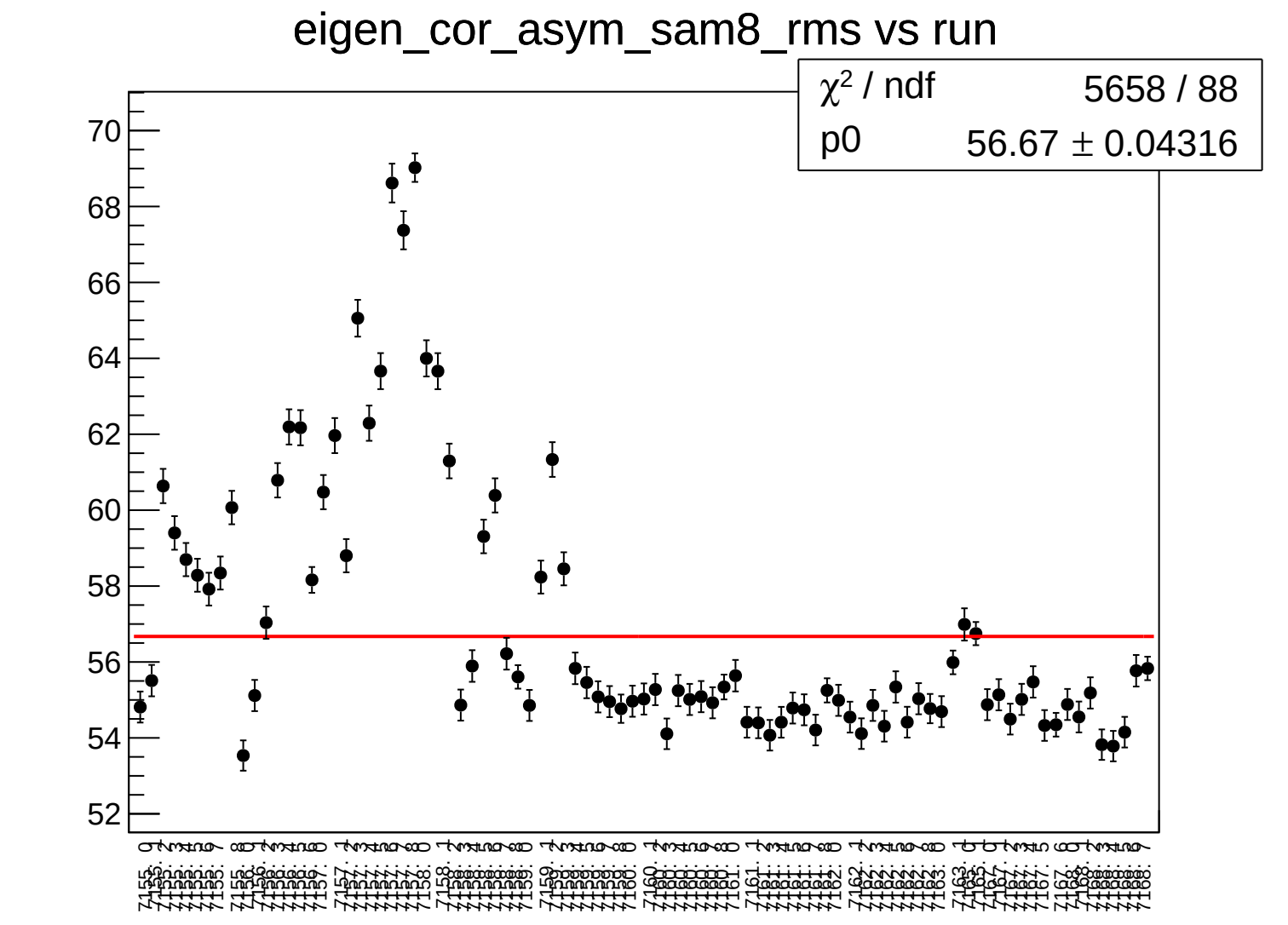

asym_sam8_cor_correction_mean vs run
χ² / ndf 69.42 / 88
p0 205.4 ± 287.8
pull
Entries 89
Mean −73.4
Std Dev 0

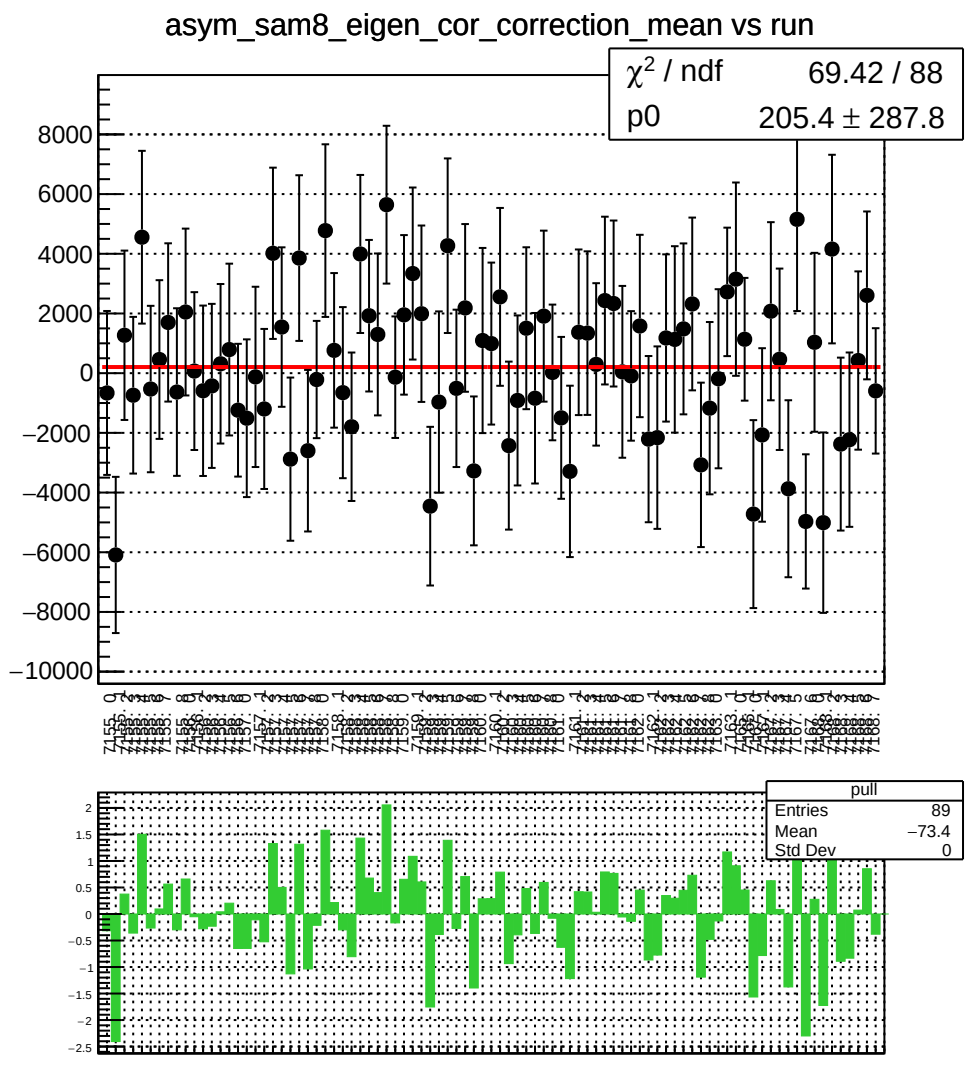

pull1D
Entries 89
Mean 0.01281
Std Dev 0.8831

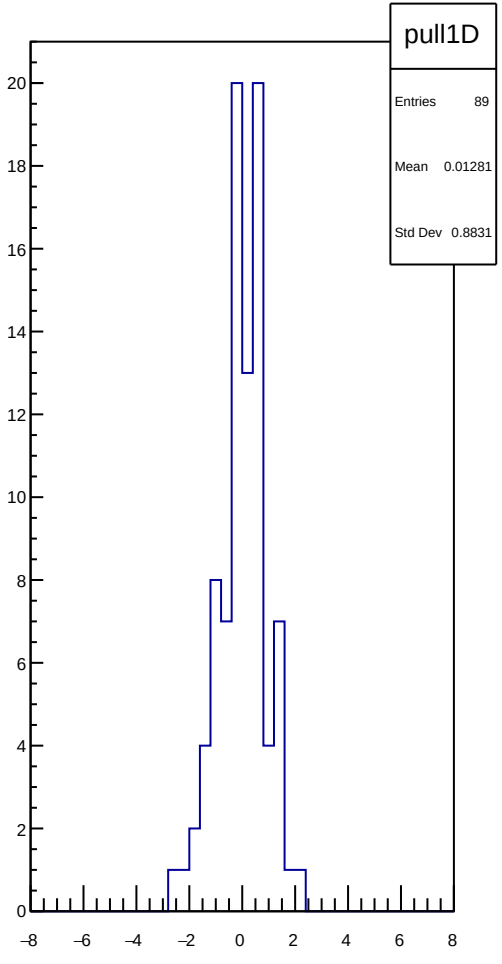

asym_sam8_cor_correction_rms vs run
χ² / ndf 4534 / 88
p0 267.3 ± 0.2035
310
300
290
280
270
260
250
240
230

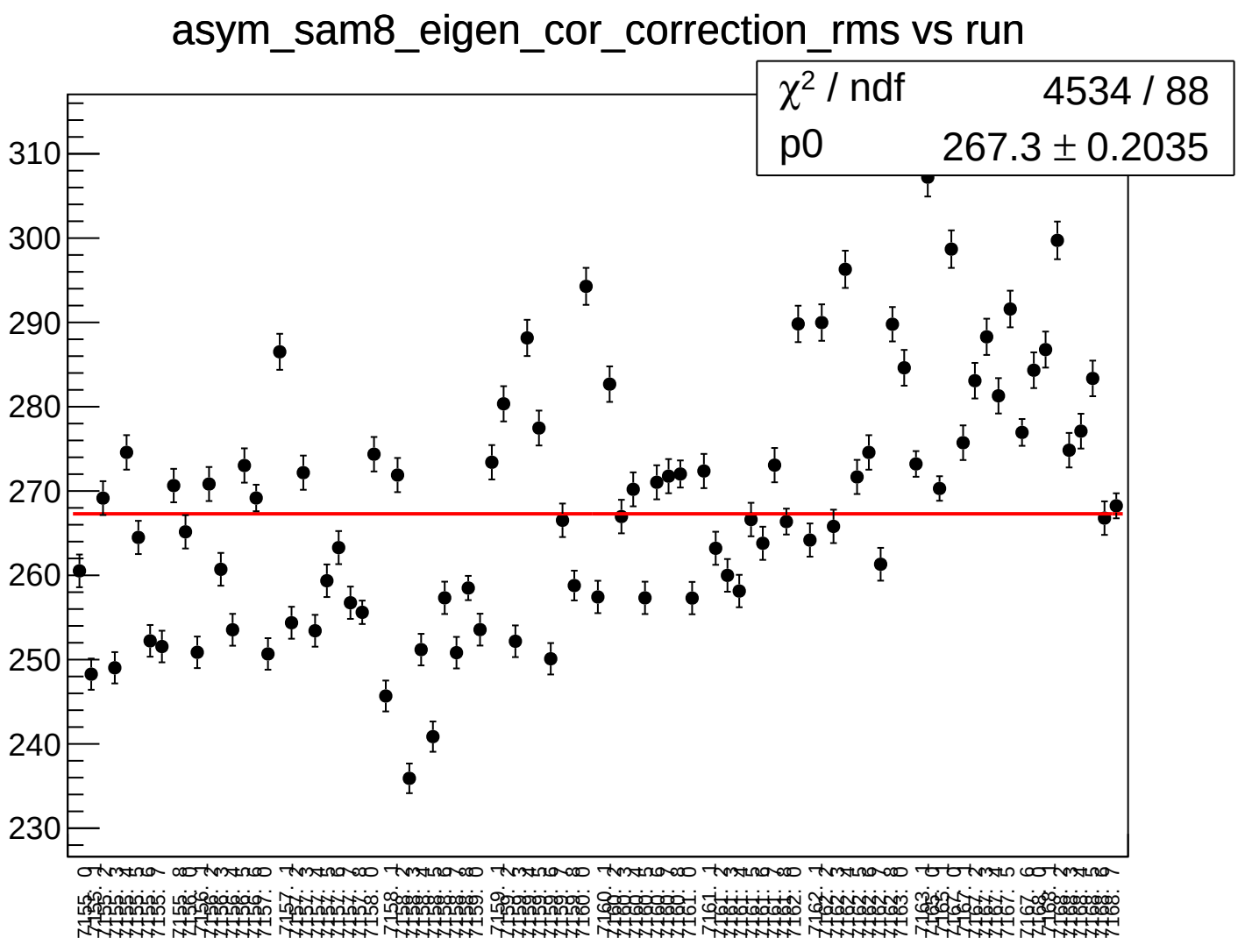

eigen_cor_asym_sam8_mean vs run
χ² / ndf 77.16 / 88
p0 188.9 ± 61.03
pull
Entries 89
Mean 316.3
Std Dev 0

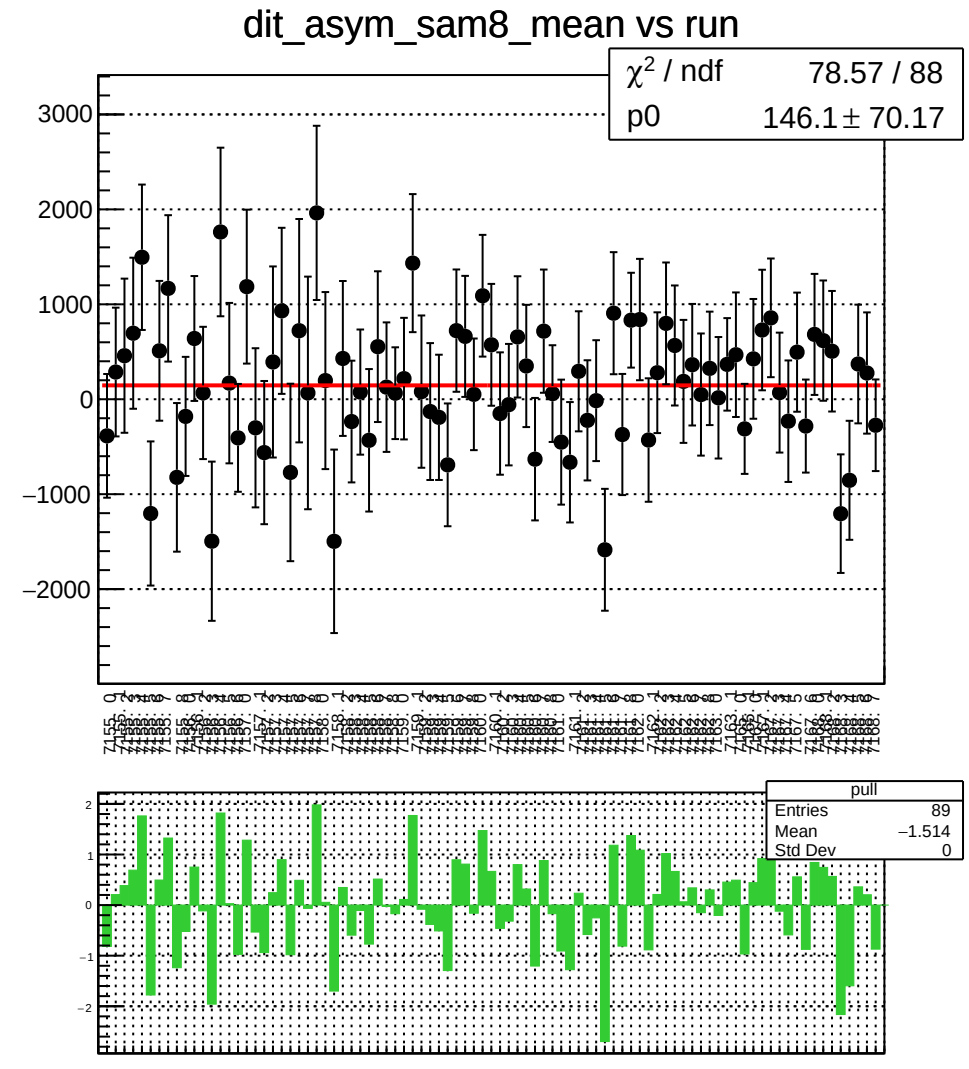

pull1D
Entries 89
Mean 0.002391
Std Dev 0.9311

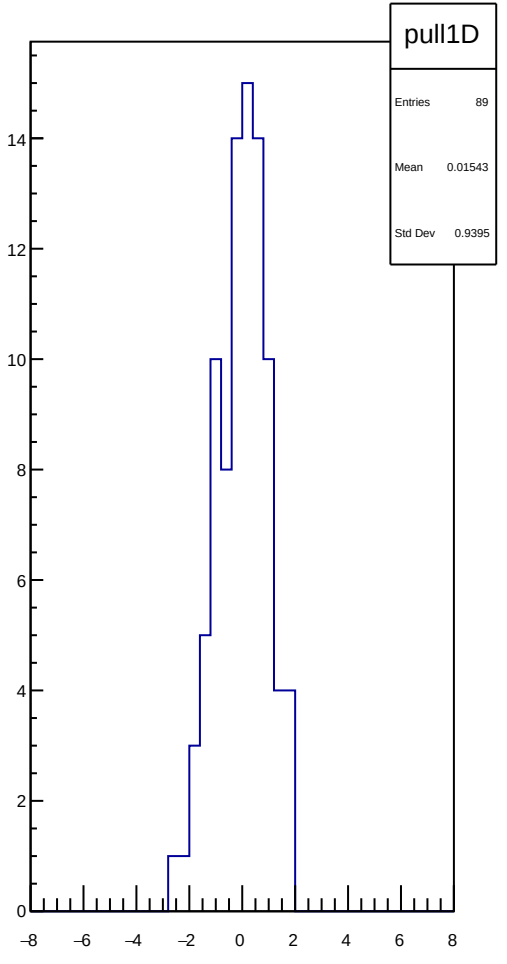

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 5658 / 88
p0 56.67 ± 0.04316
70
68
66
64
62
60
58
56
54
52

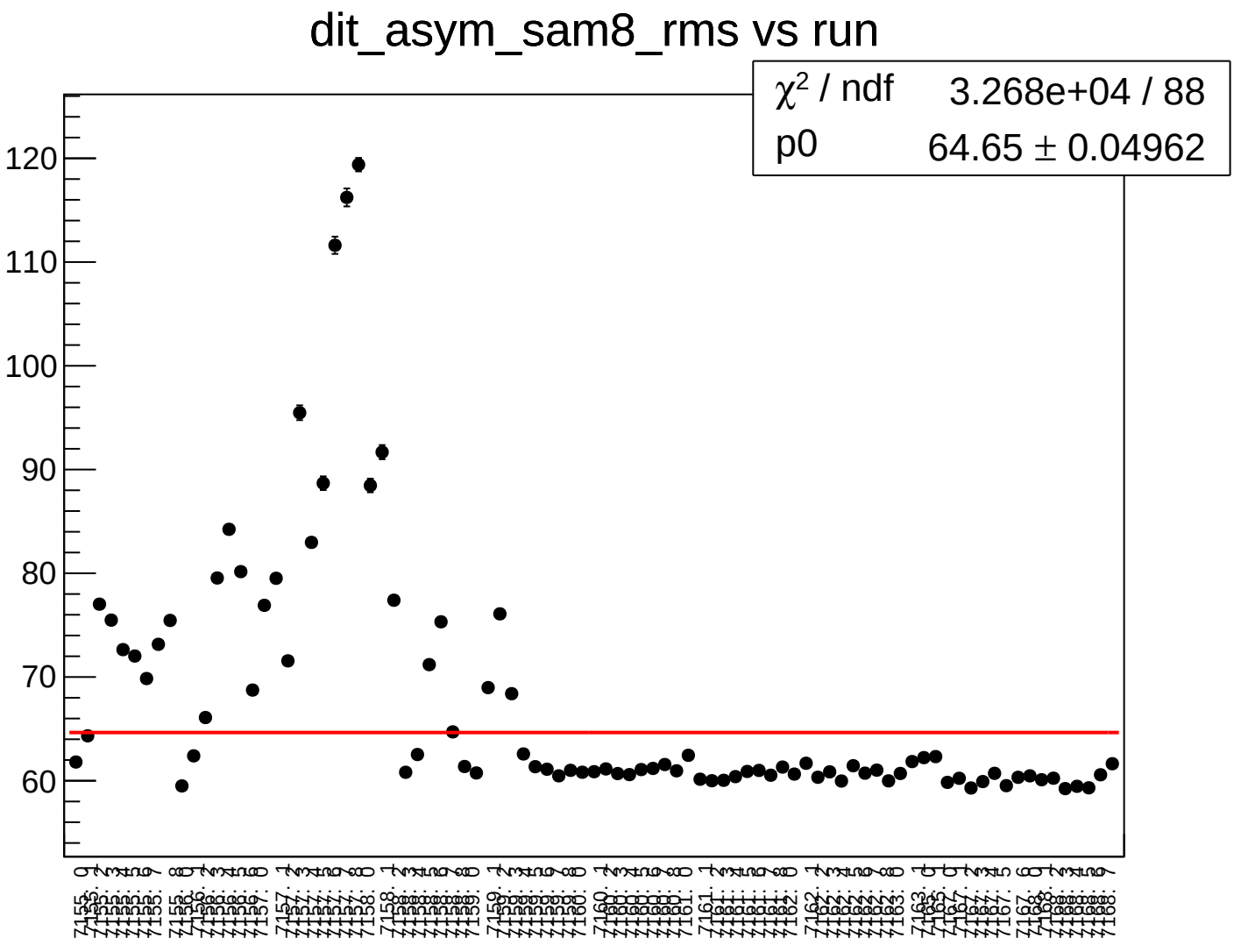

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 69.42 / 88
p0 205.4 ± 287.8
pull
Entries 89
Mean −73.4
Std Dev 0

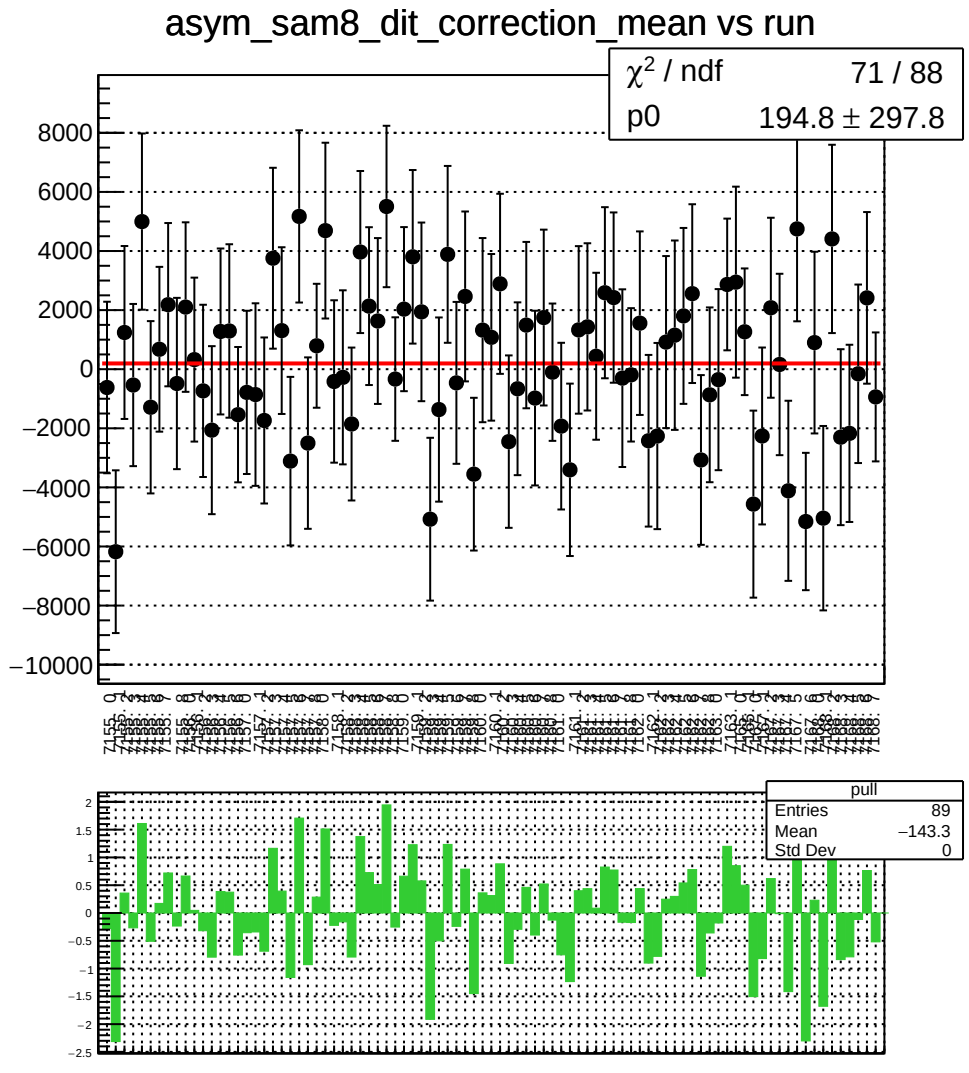

pull1D
Entries 89
Mean 0.01281
Std Dev 0.8831

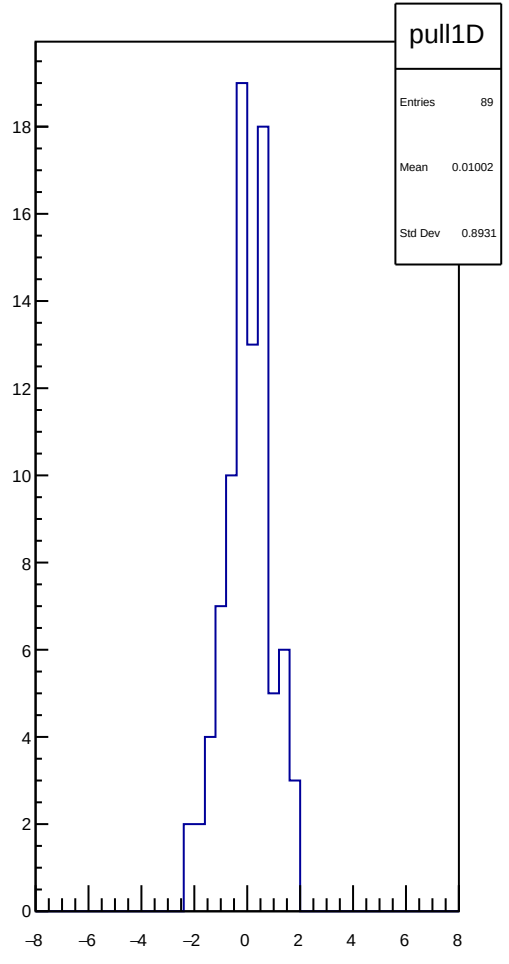

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 4534 / 88
p0 267.3 ± 0.2035
310
300
290
280
270
260
250
240
230

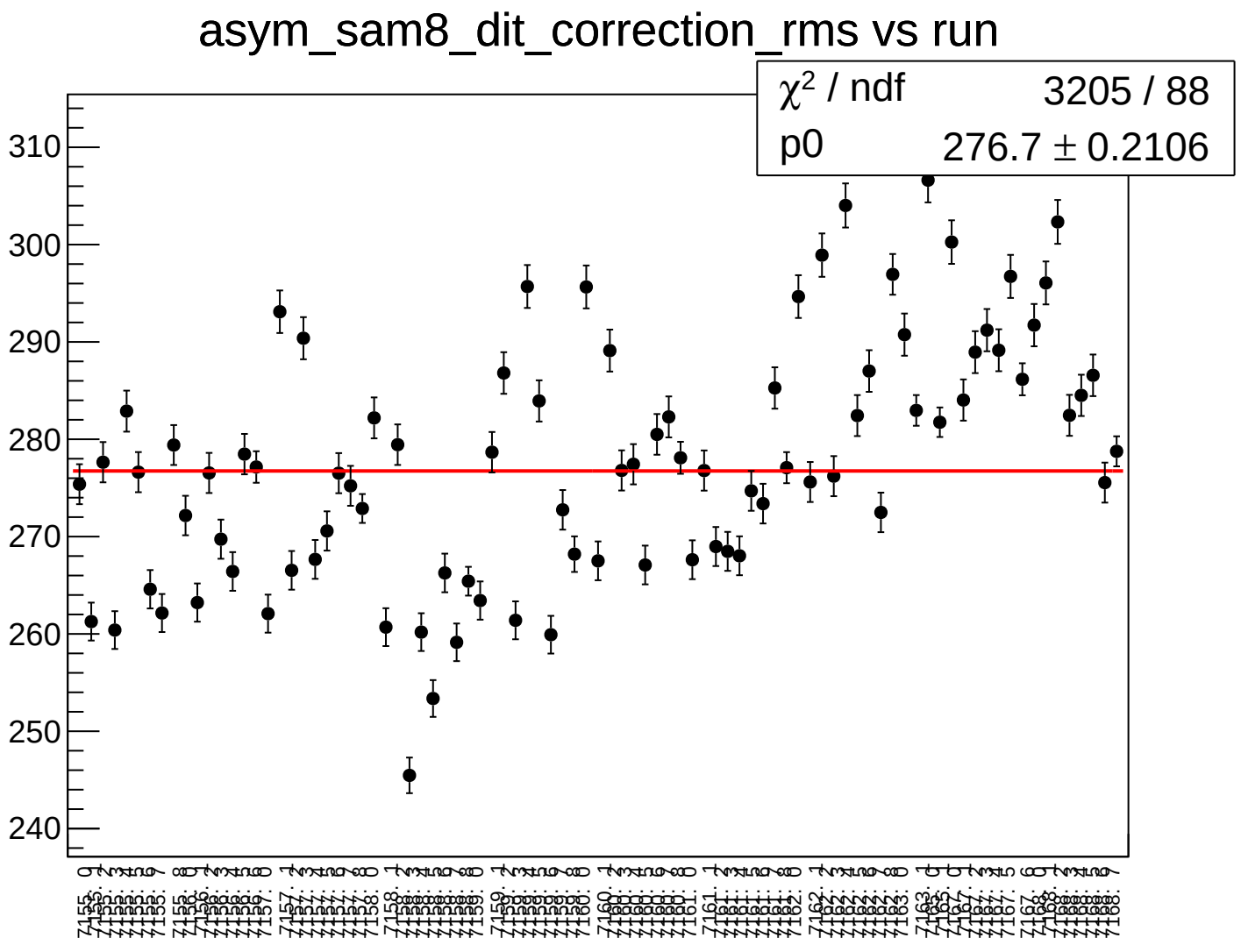

dit_asym_sam8_mean vs run
χ² / ndf 78.57 / 88
p0 146.1 ± 70.17
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1.514
Std Dev 0
2
1
0
−1
−2

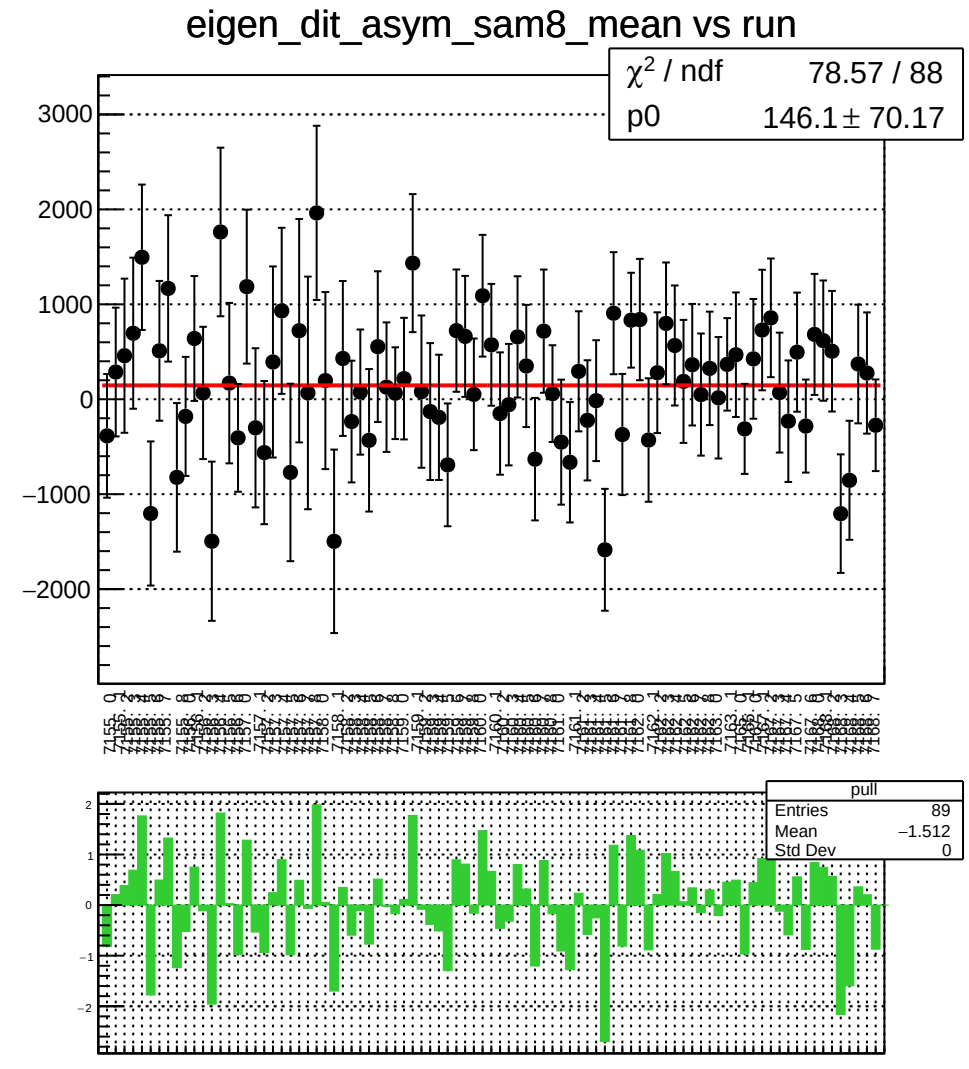

pull1D
Entries 89
Mean 0.01543
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

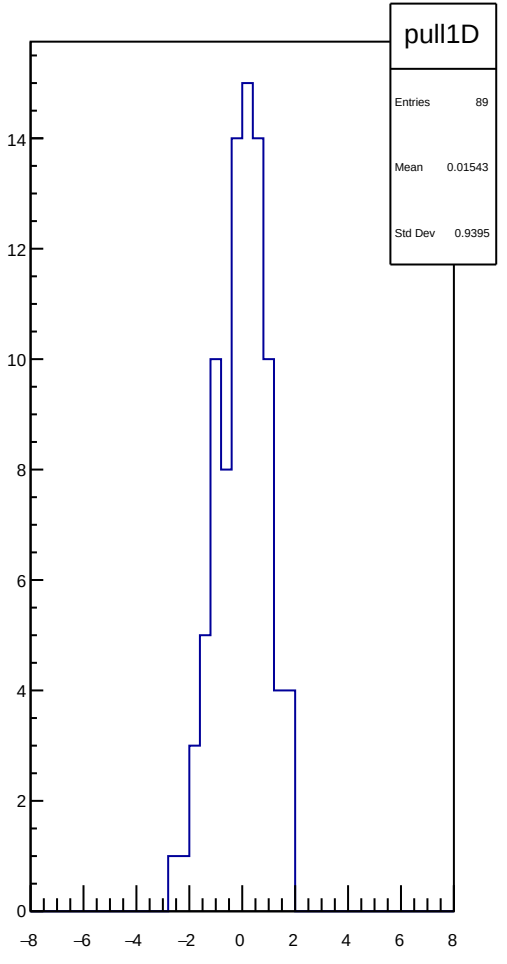

dit_asym_sam8_rms vs run
χ^2 / ndf 3.268e+04 / 88
p0 64.65 ± 0.04962
120
110
100
90
80
70
60

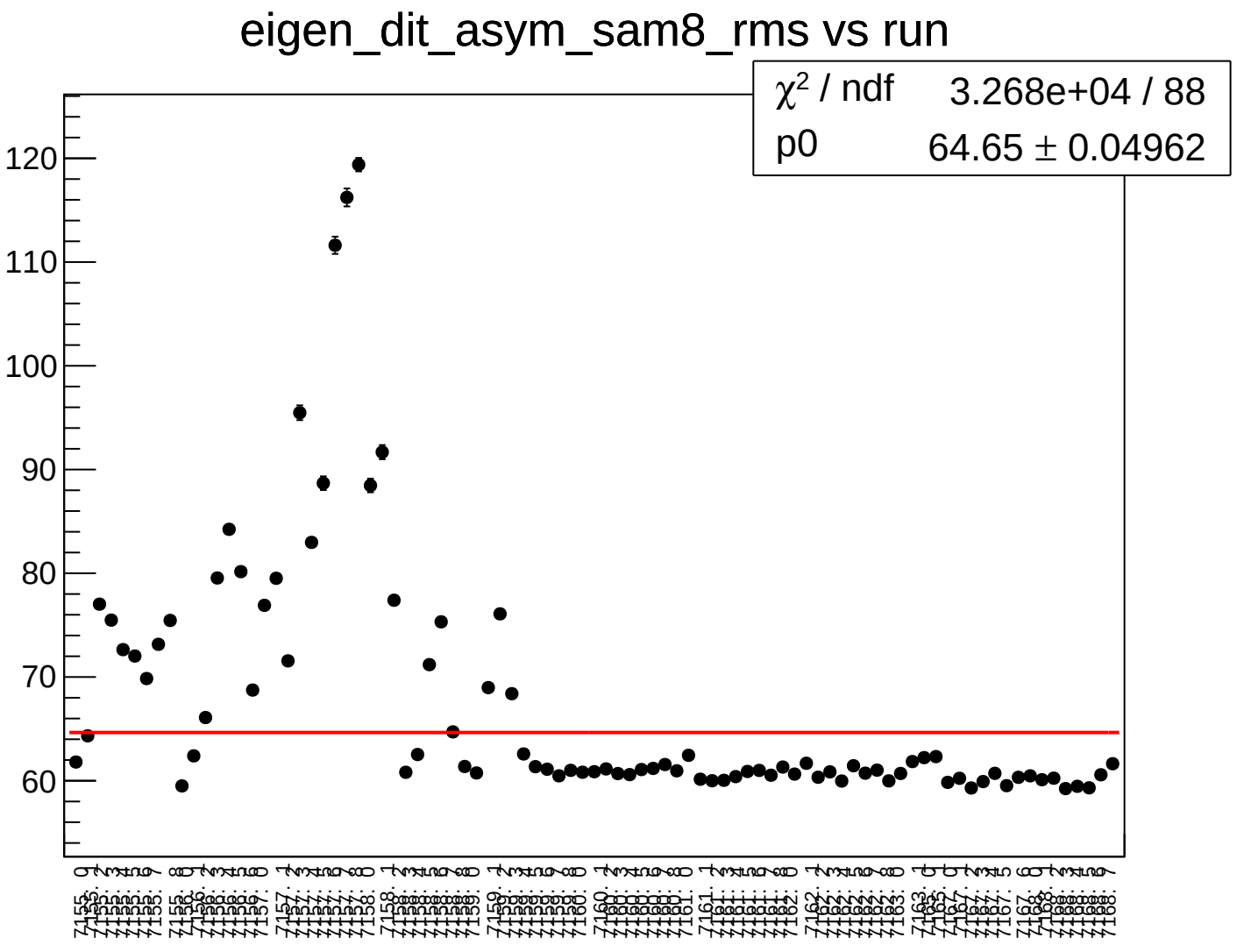

asym_sam8_dit_correction_mean vs run
χ² / ndf 71 / 88
p0 194.8 ± 297.8
pull
Entries 89
Mean −143.3
Std Dev 0

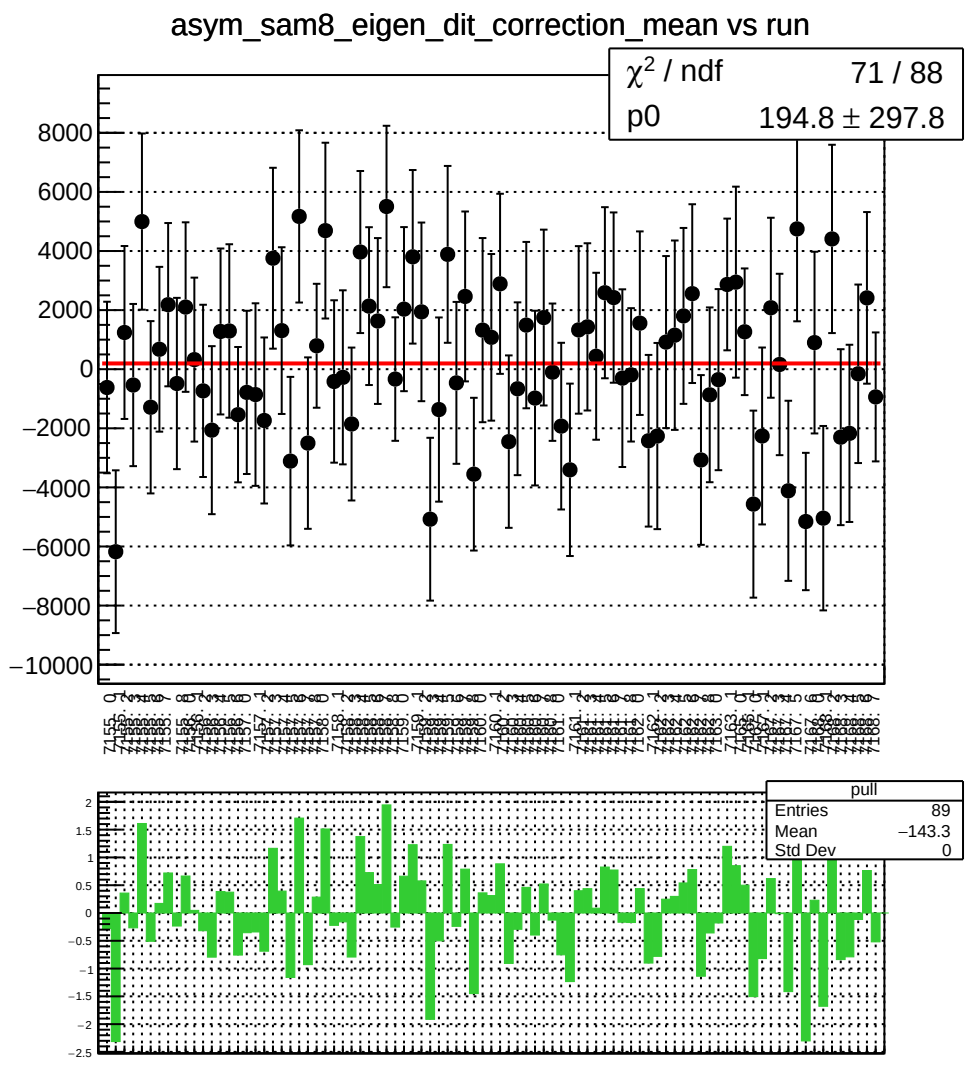

pull1D
Entries 89
Mean 0.01002
Std Dev 0.8931

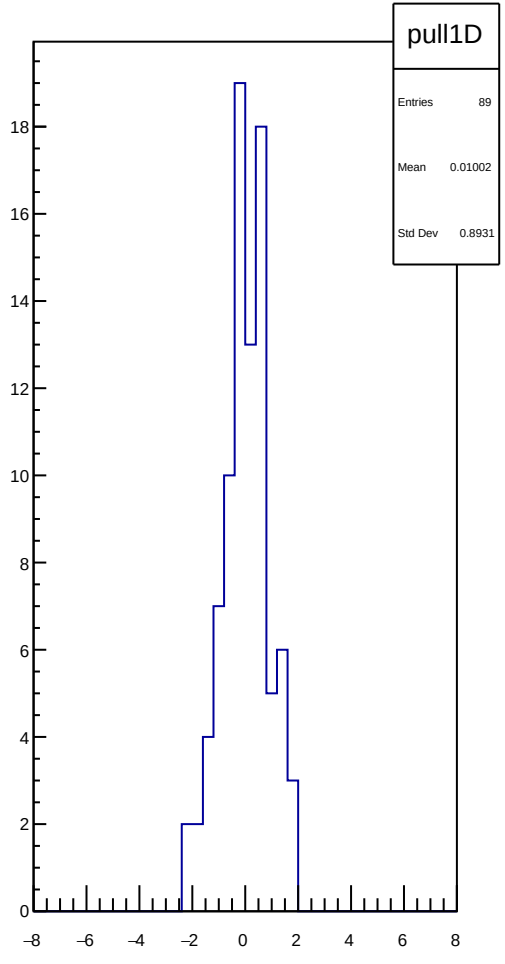

asym_sam8_dit_correction_rms vs run
χ² / ndf 3205 / 88
p0 276.7 ± 0.2106
310
300
290
280
270
260
250
240

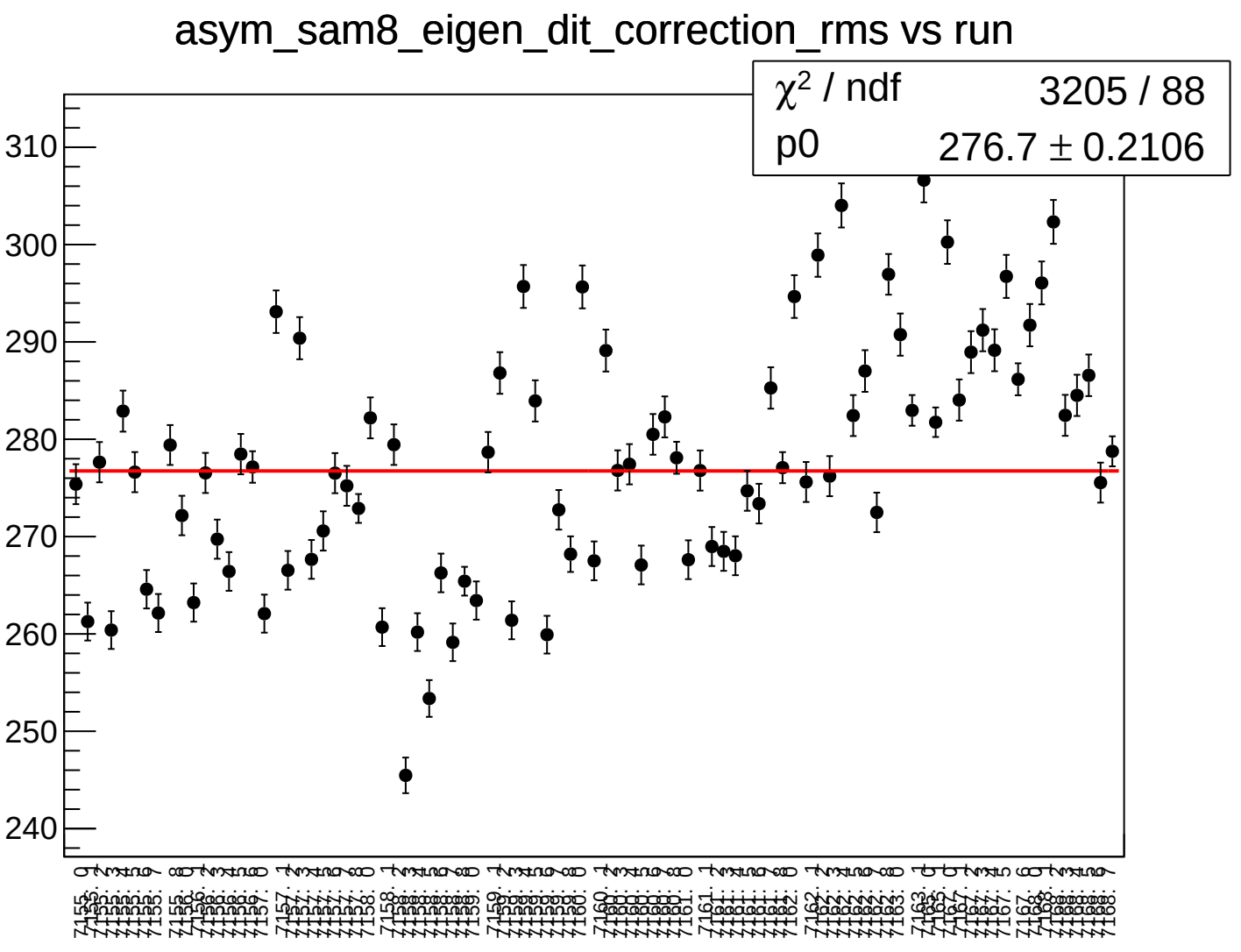

eigen_dit_asym_sam8_mean vs run
χ² / ndf 78.57 / 88
p0 146.1 ± 70.17
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −1.512
Std Dev 0
2
1
0
−1
−2

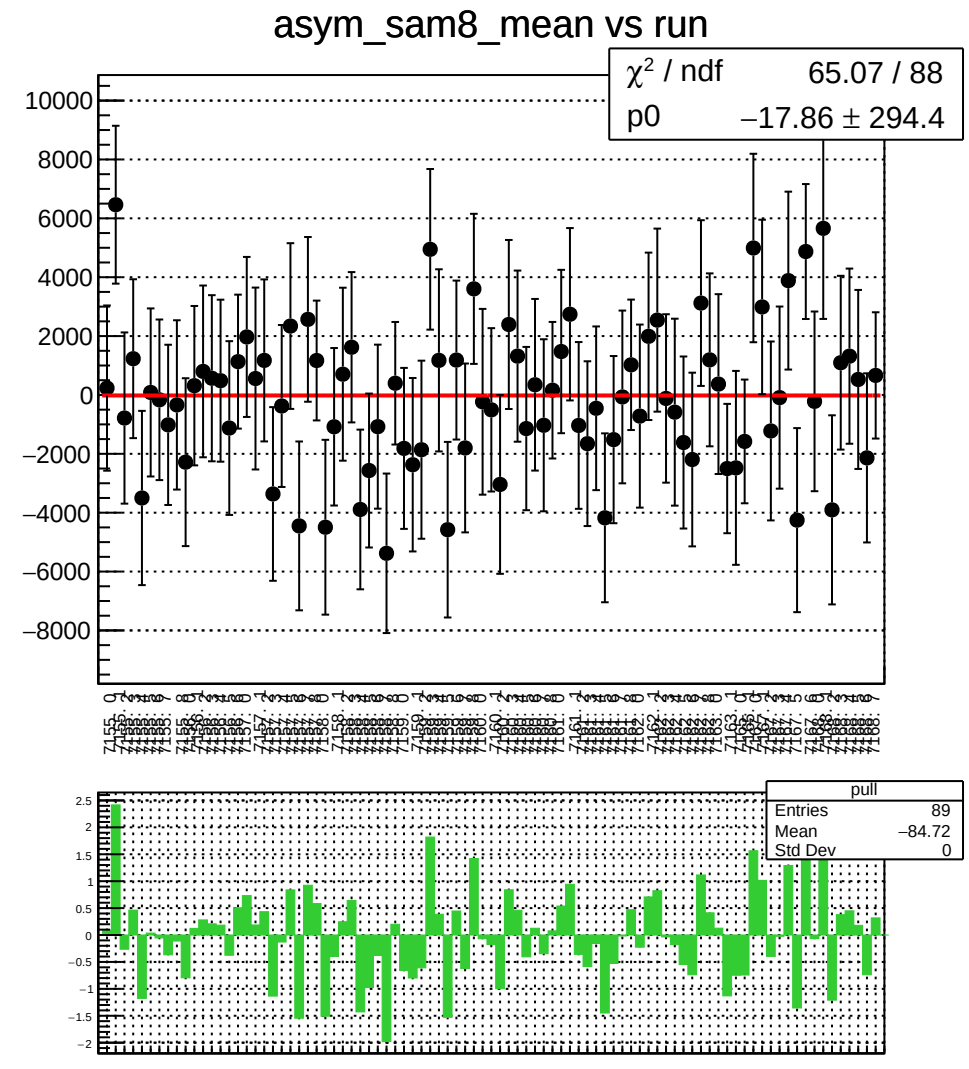

pull1D
Entries 89
Mean 0.01543
Std Dev 0.9395
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

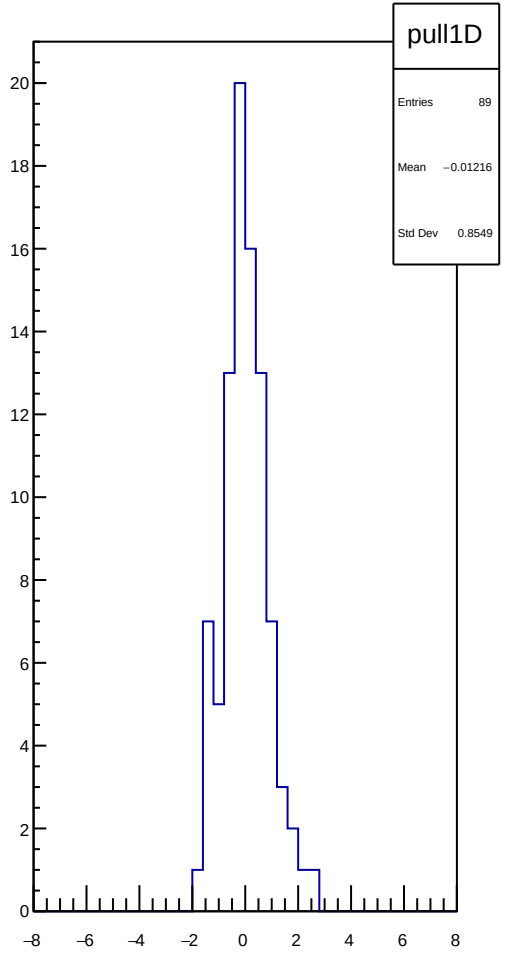

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 3.268e+04 / 88
p0 64.65 ± 0.04962
120
110
100
90
80
70
60

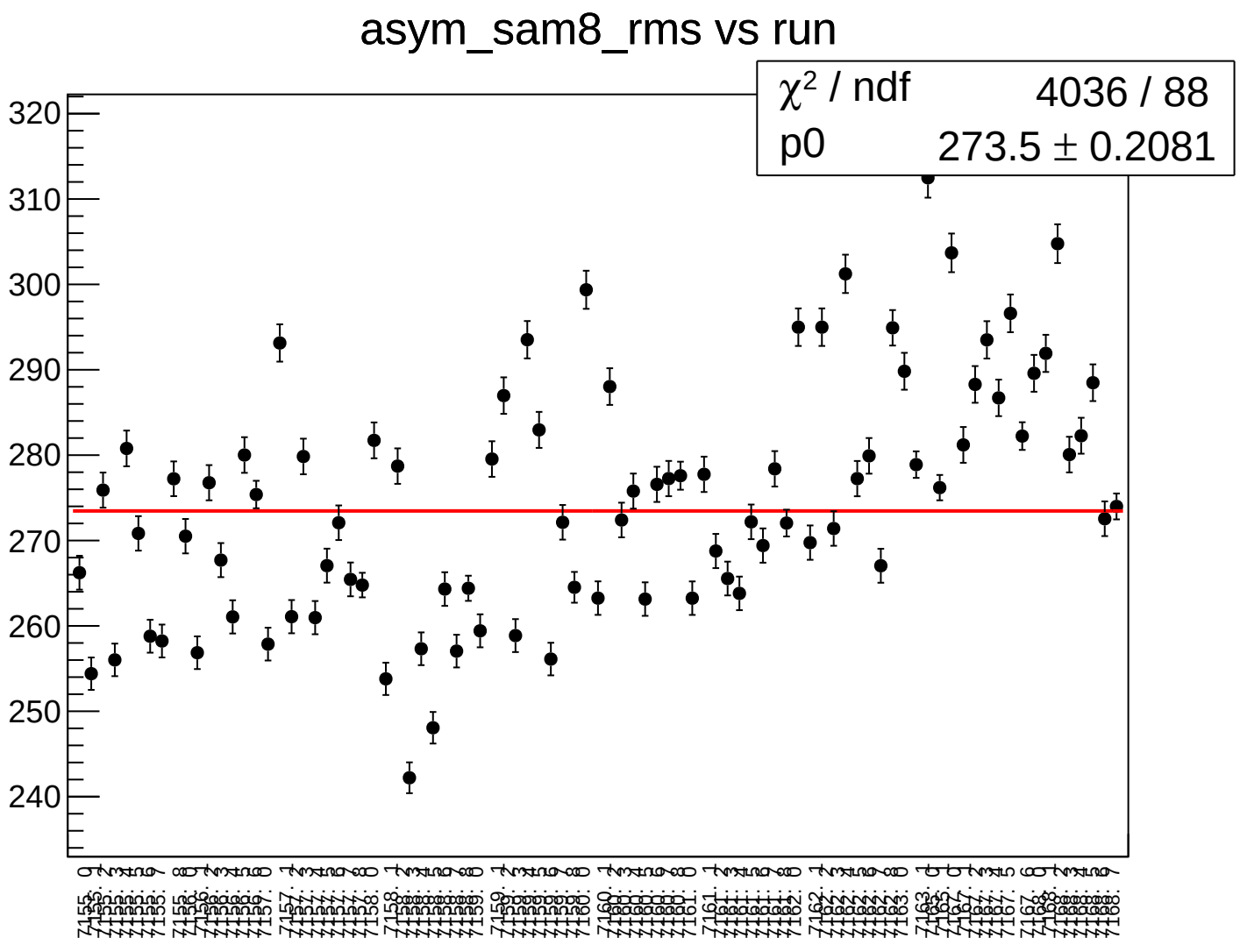

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 71 / 88
p0 194.8 ± 297.8
pull
Entries 89
Mean −143.3
Std Dev 0

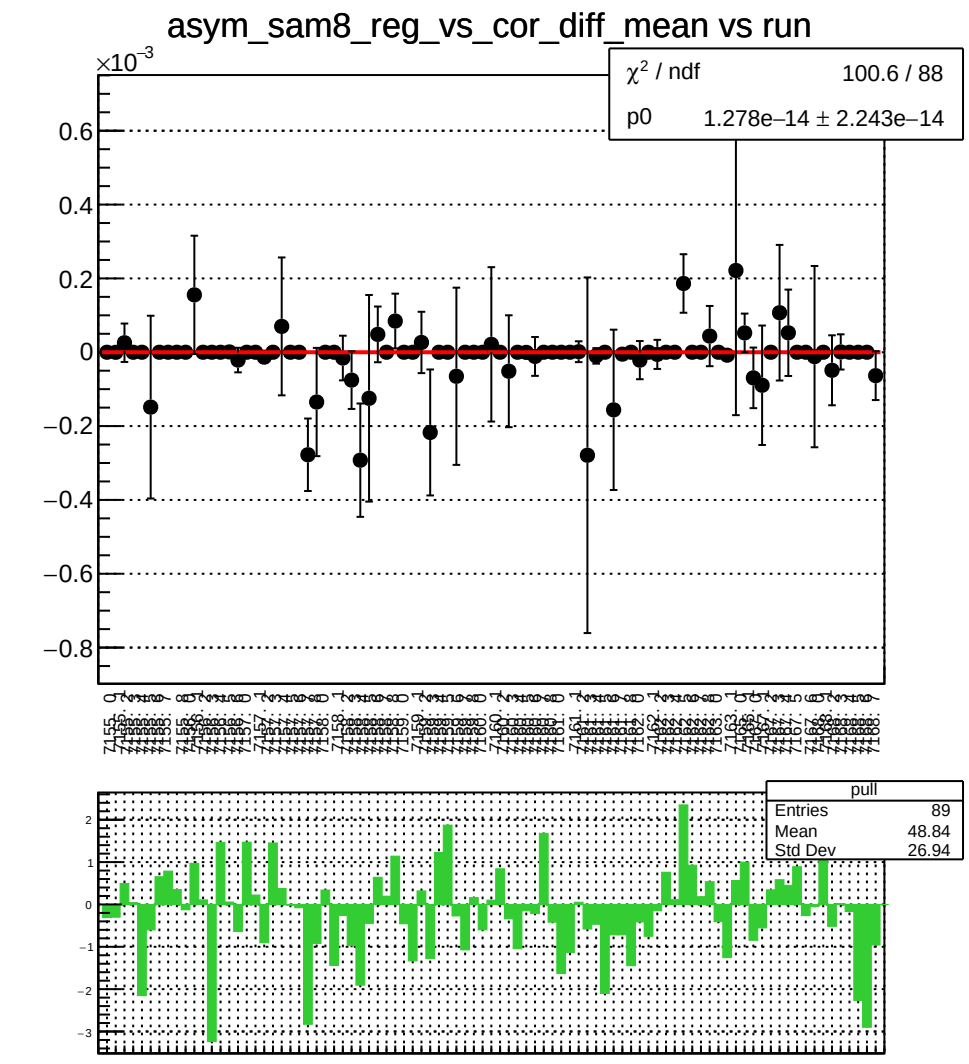

pull1D
Entries 89
Mean 0.01002
Std Dev 0.8931

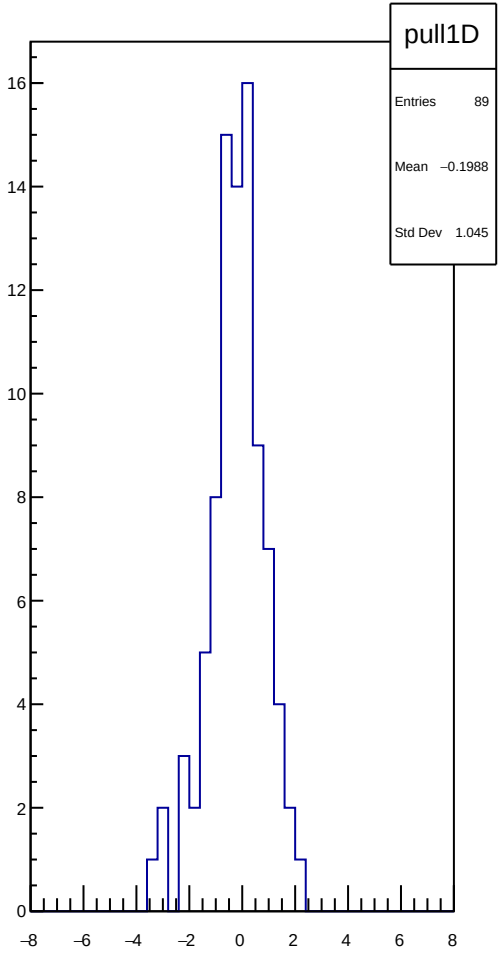

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 3205 / 88
p0 276.7 ± 0.2106
310
300
290
280
270
260
250
240

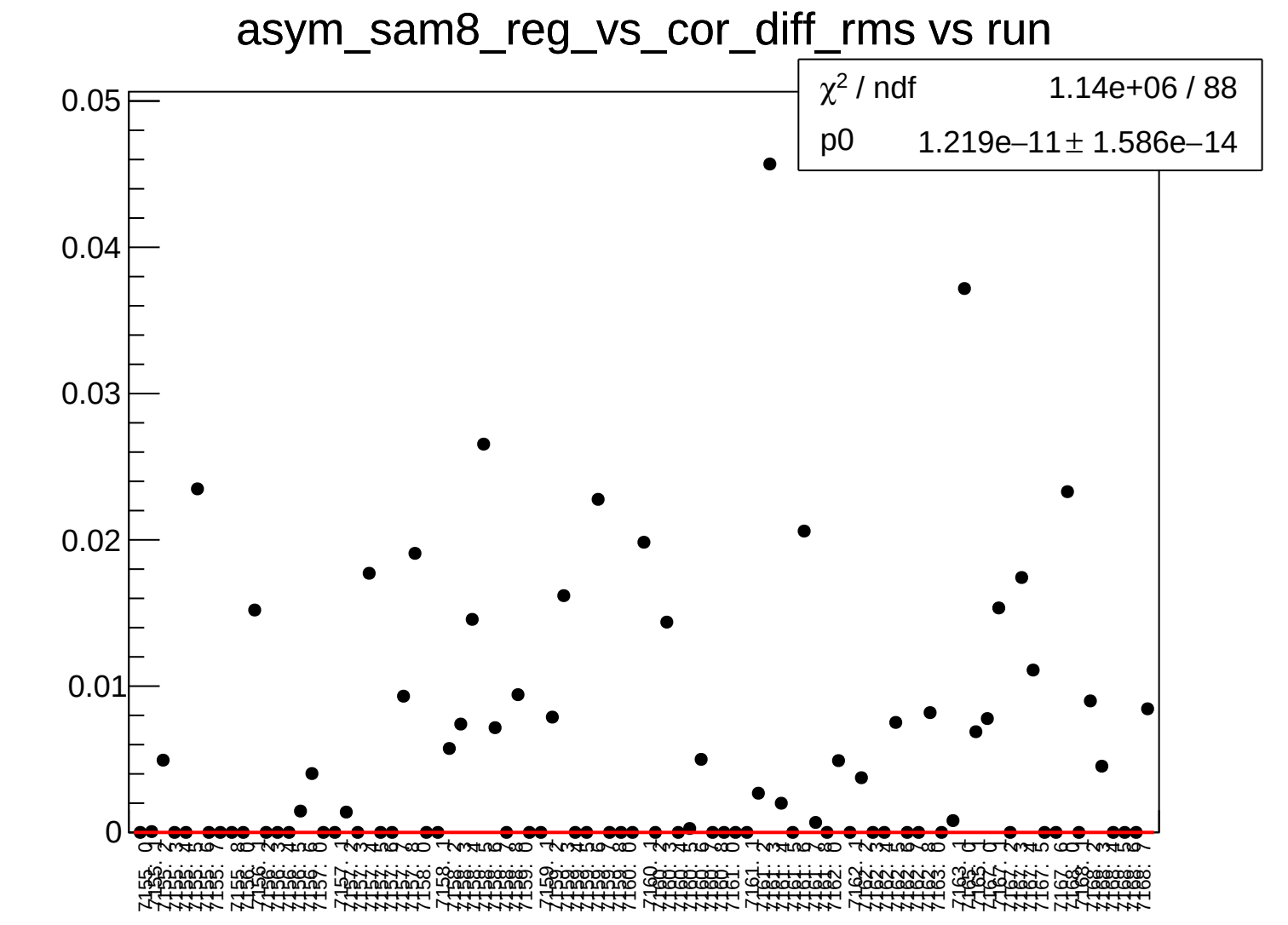

asym_sam8_mean vs run
χ² / ndf 65.07 / 88
p0 −17.86 ± 294.4
pull
Entries 89
Mean −84.72
Std Dev 0

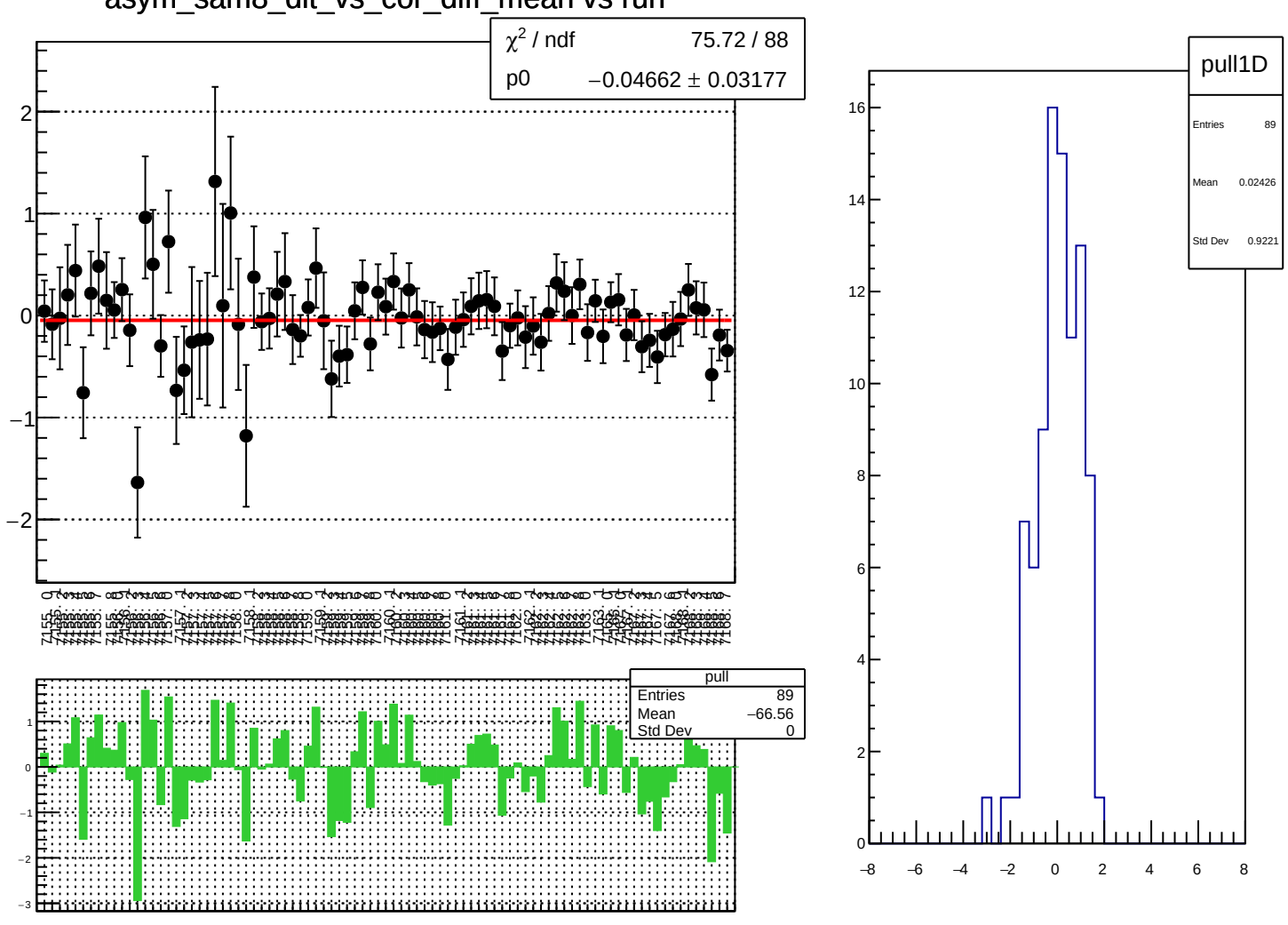

pull1D
Entries 89
Mean −0.01216
Std Dev 0.8549

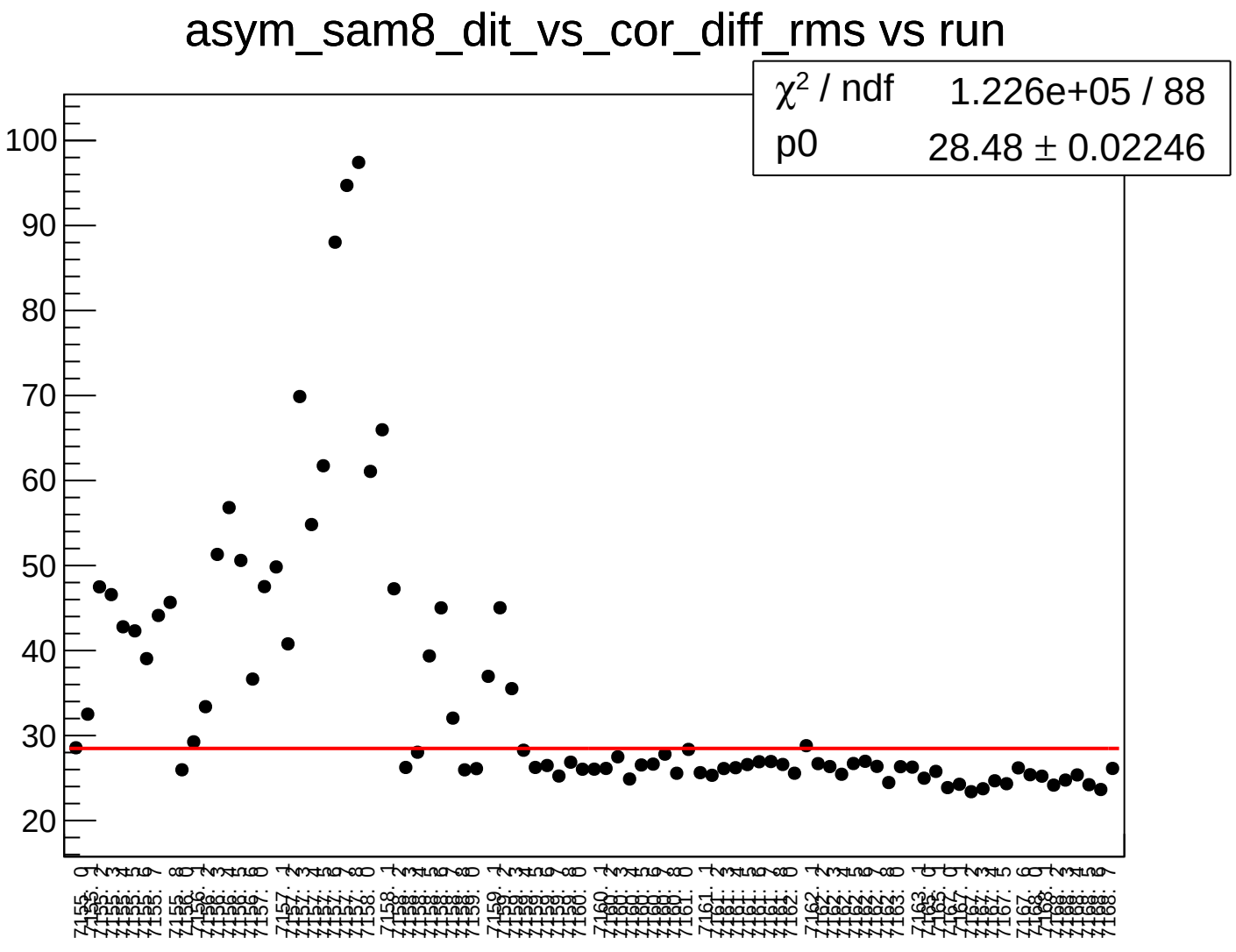

asym_sam8_rms vs run
χ² / ndf 4036 / 88
p0 273.5 ± 0.2081
320
310
300
290
280
270
260
250
240

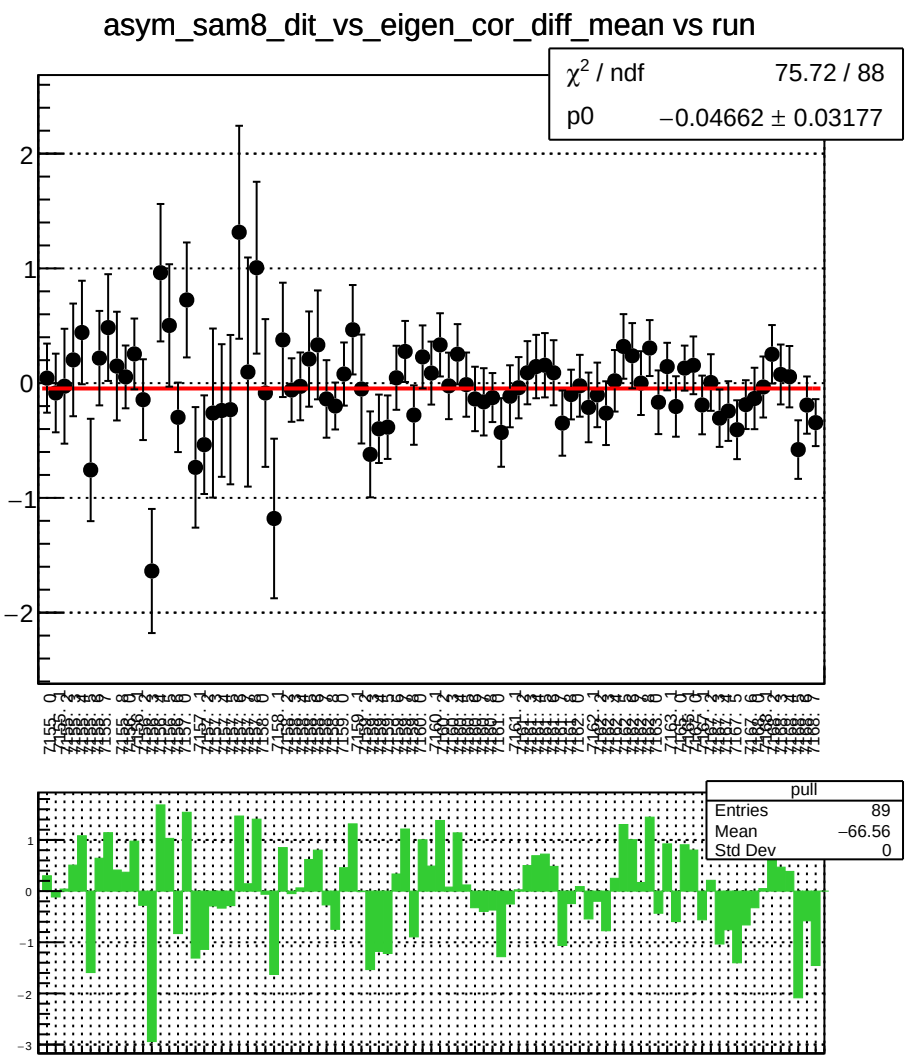

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.6 / 88
p0 1.278e−14 ± 2.243e−14
pull
Entries 89
Mean 48.84
Std Dev 26.94

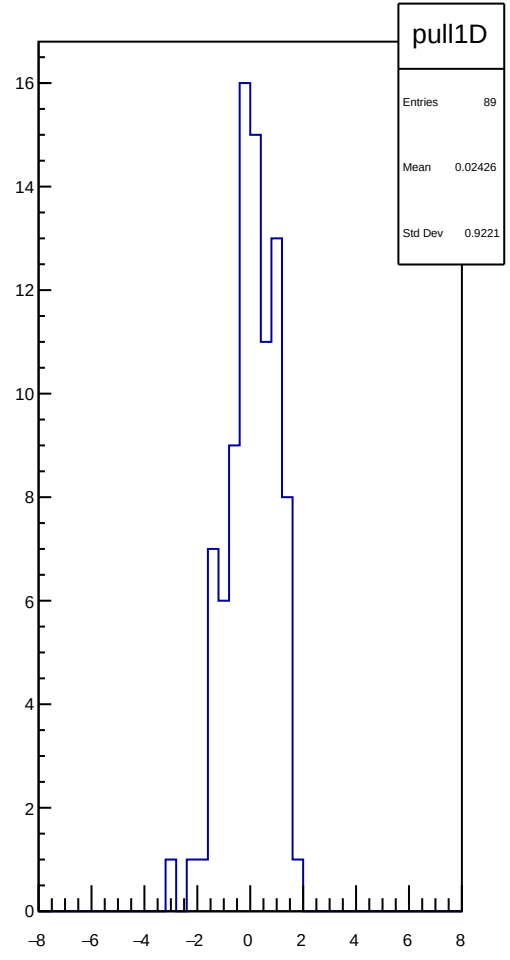

pull1D
Entries 89
Mean −0.1988
Std Dev 1.045

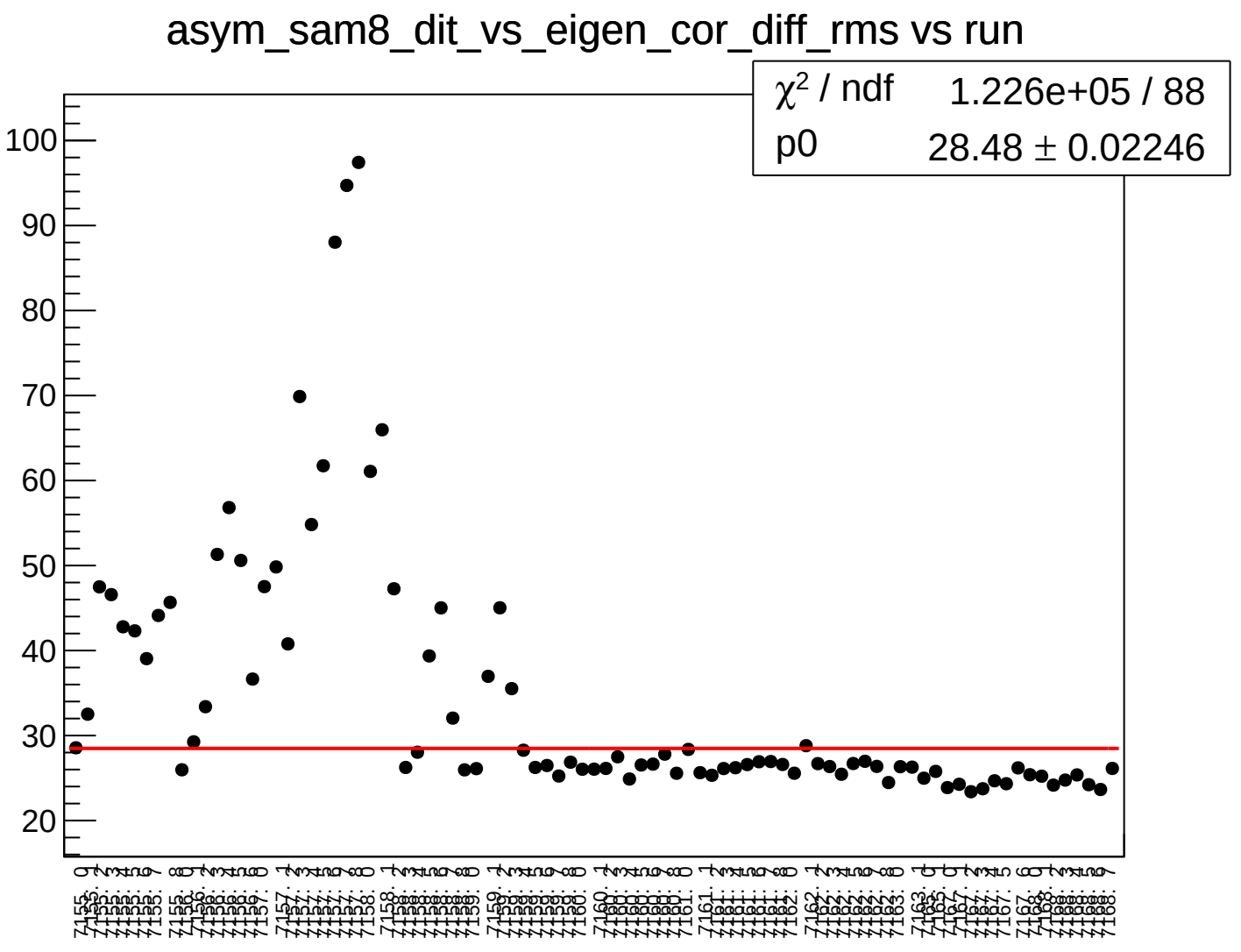

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.14e+06 / 88
p0 1.219e−11 ± 1.586e−14
0.05
0.04
0.03
0.02
0.01
0

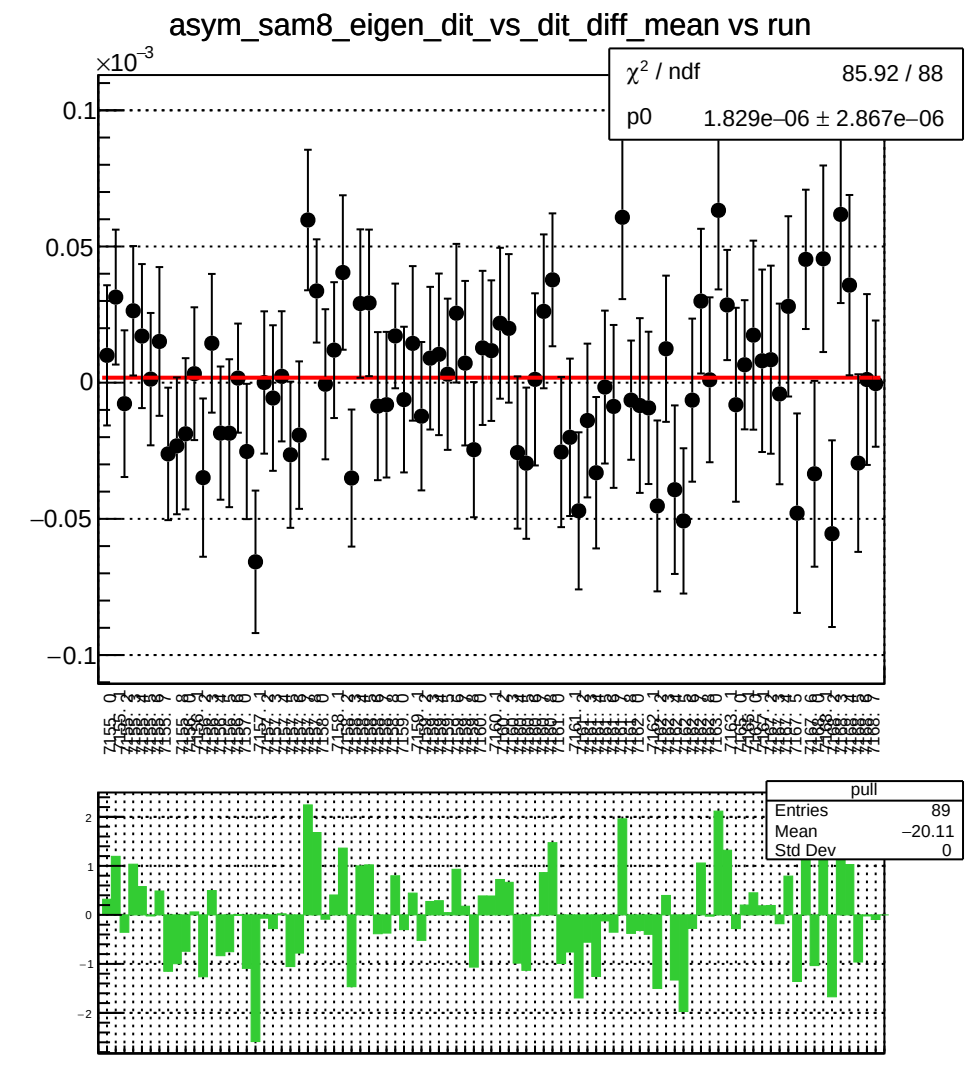

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 75.72 / 88
p0 −0.04662 ± 0.03177
pull
Entries 89
Mean −66.56
Std Dev 0
pull1D
Entries 89
Mean 0.02426
Std Dev 0.9221

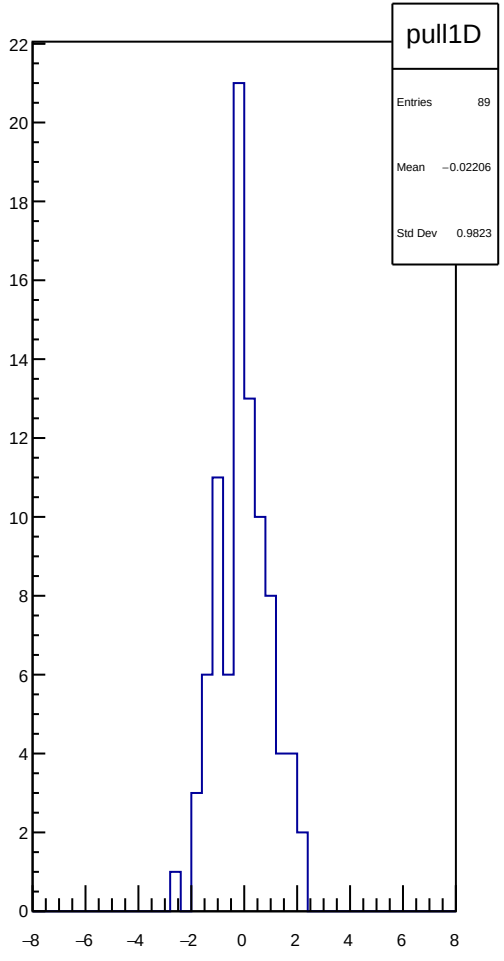

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.226e+05 / 88
p0 28.48 ± 0.02246
100
90
80
70
60
50
40
30
20

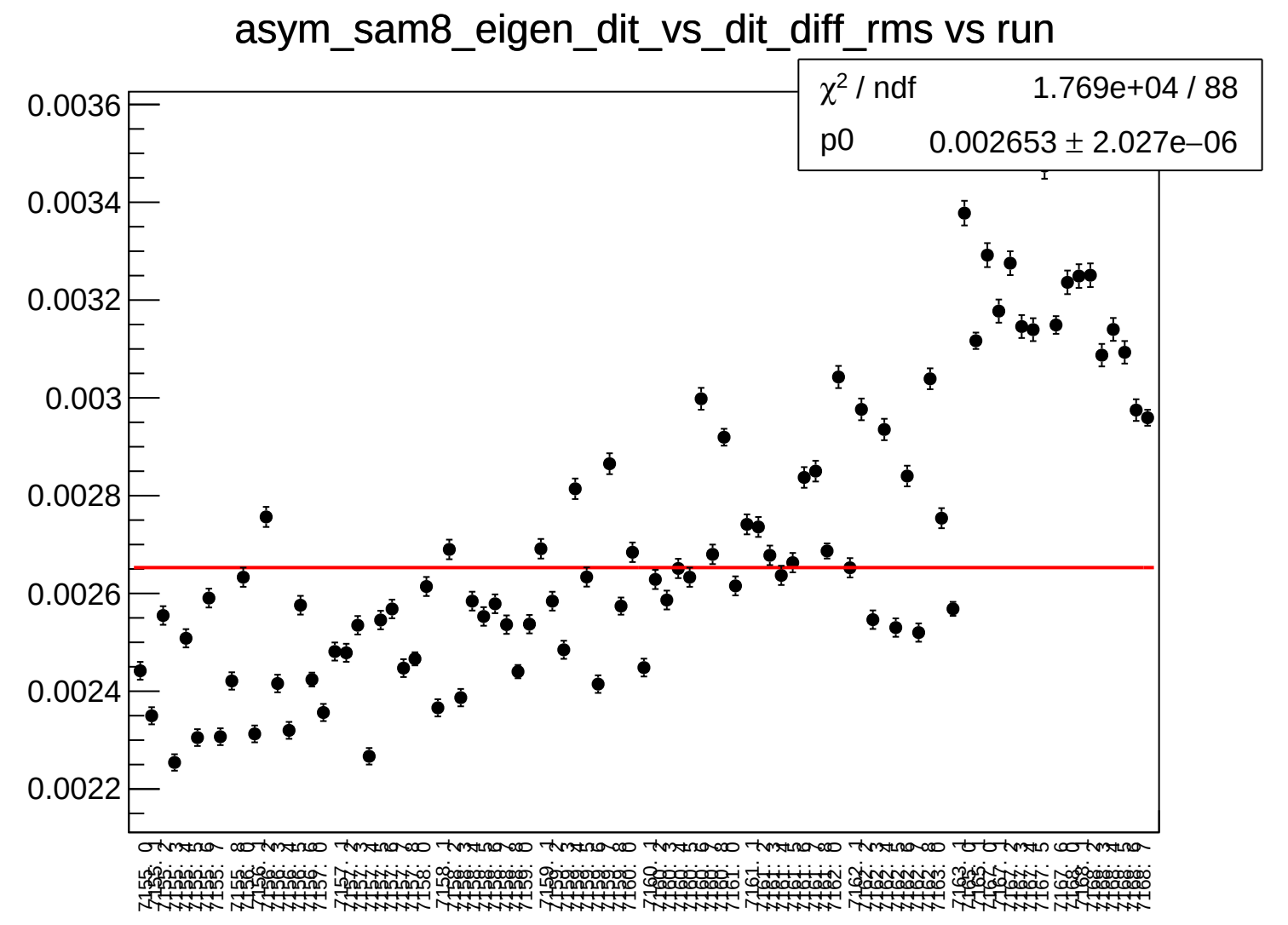

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.72 / 88
p0 −0.04662 ± 0.03177
pull
Entries 89
Mean −66.56
Std Dev 0

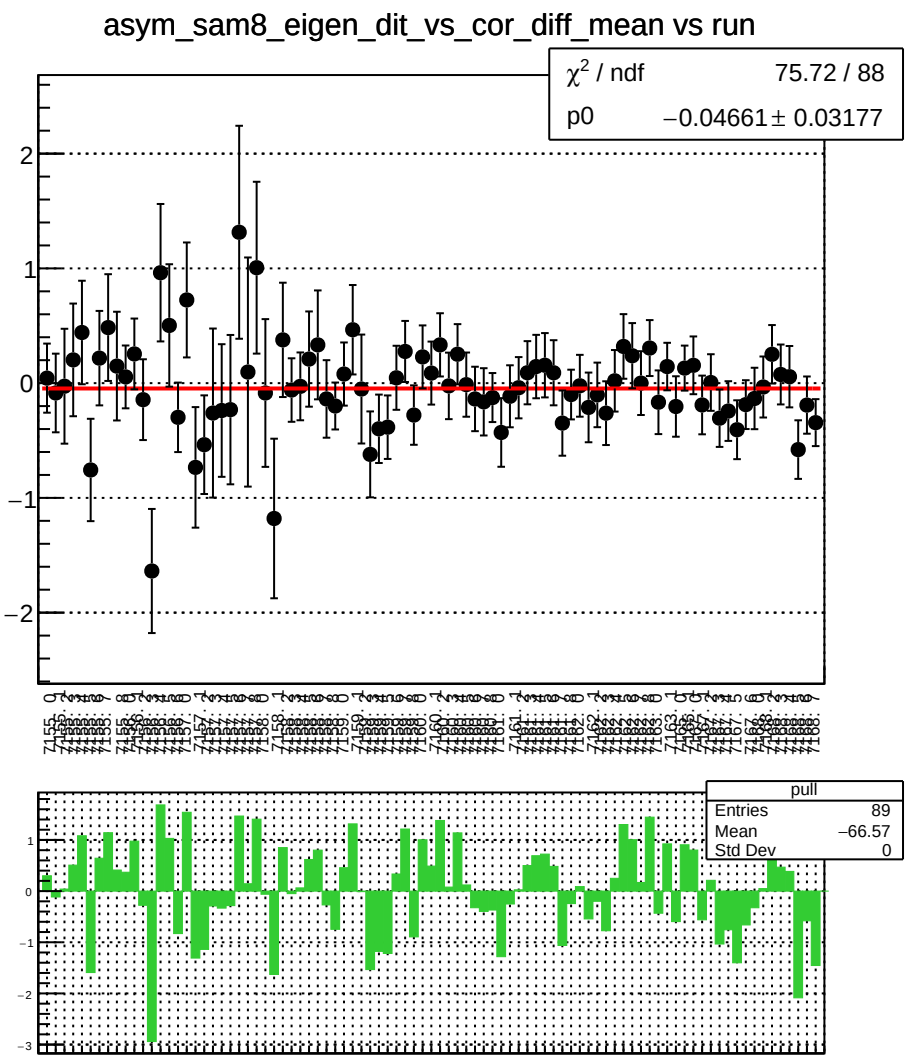

pull1D
Entries 89
Mean 0.02426
Std Dev 0.9221

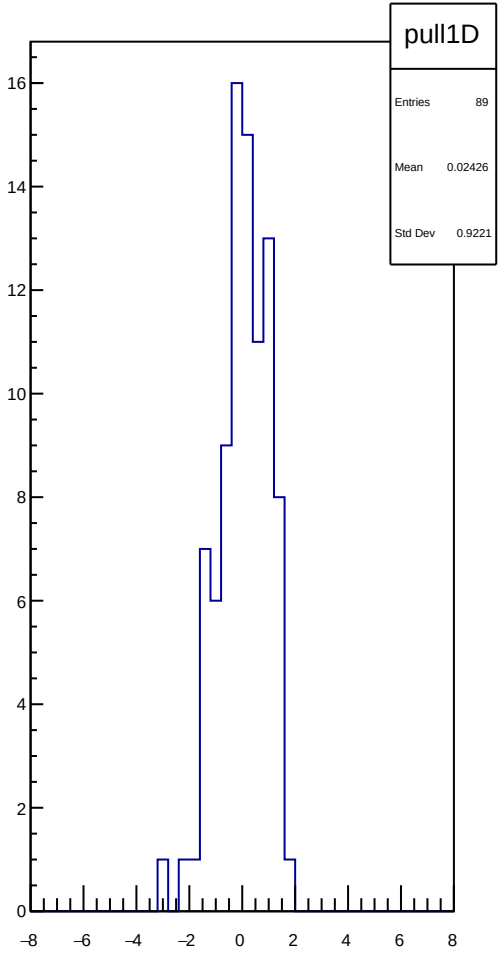

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.226e+05 / 88
p0 28.48 ± 0.02246
100
90
80
70
60
50
40
30
20

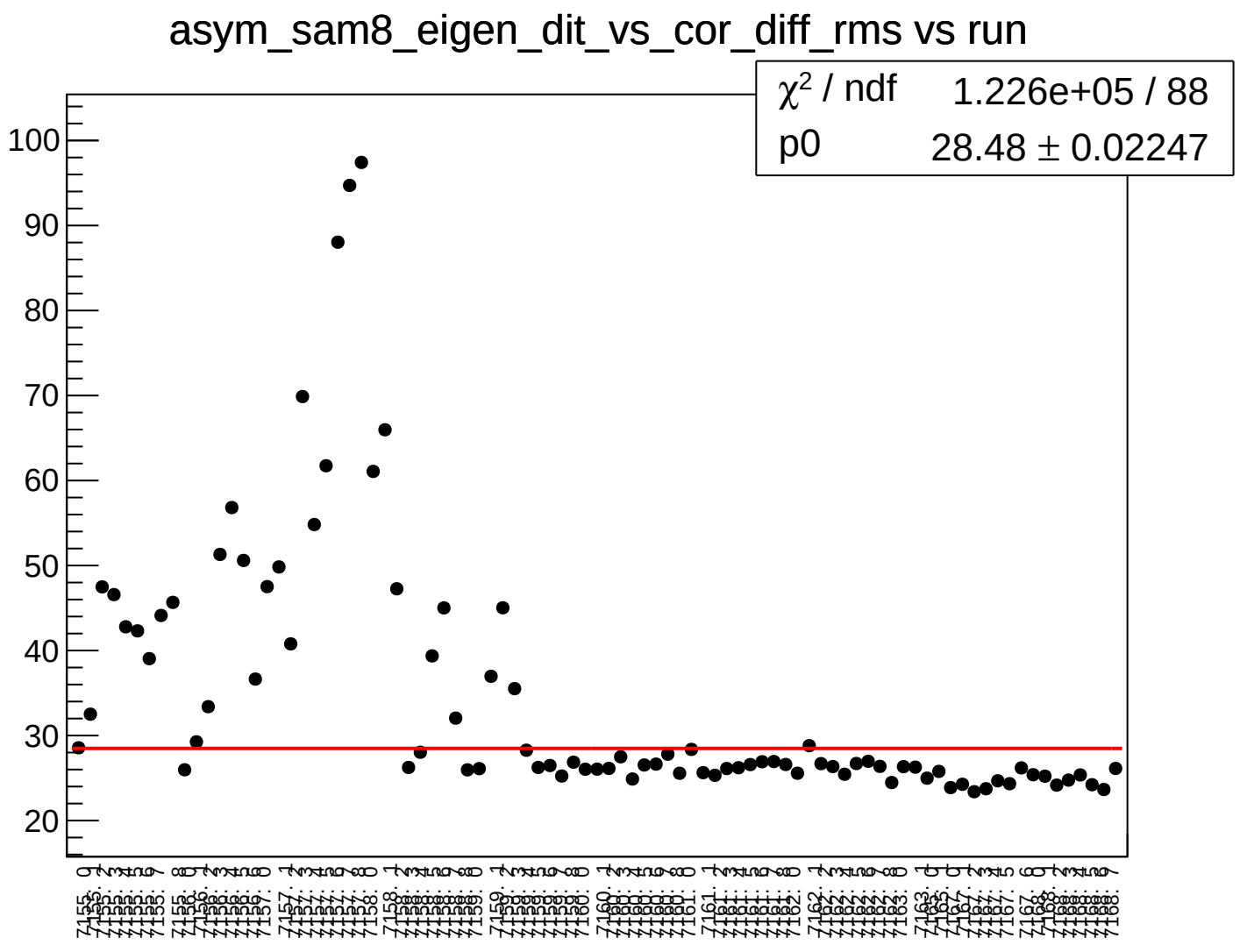

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.92 / 88
p0 1.829e−06 ± 2.867e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −20.11
Std Dev 0
2
1
0
−1
−2

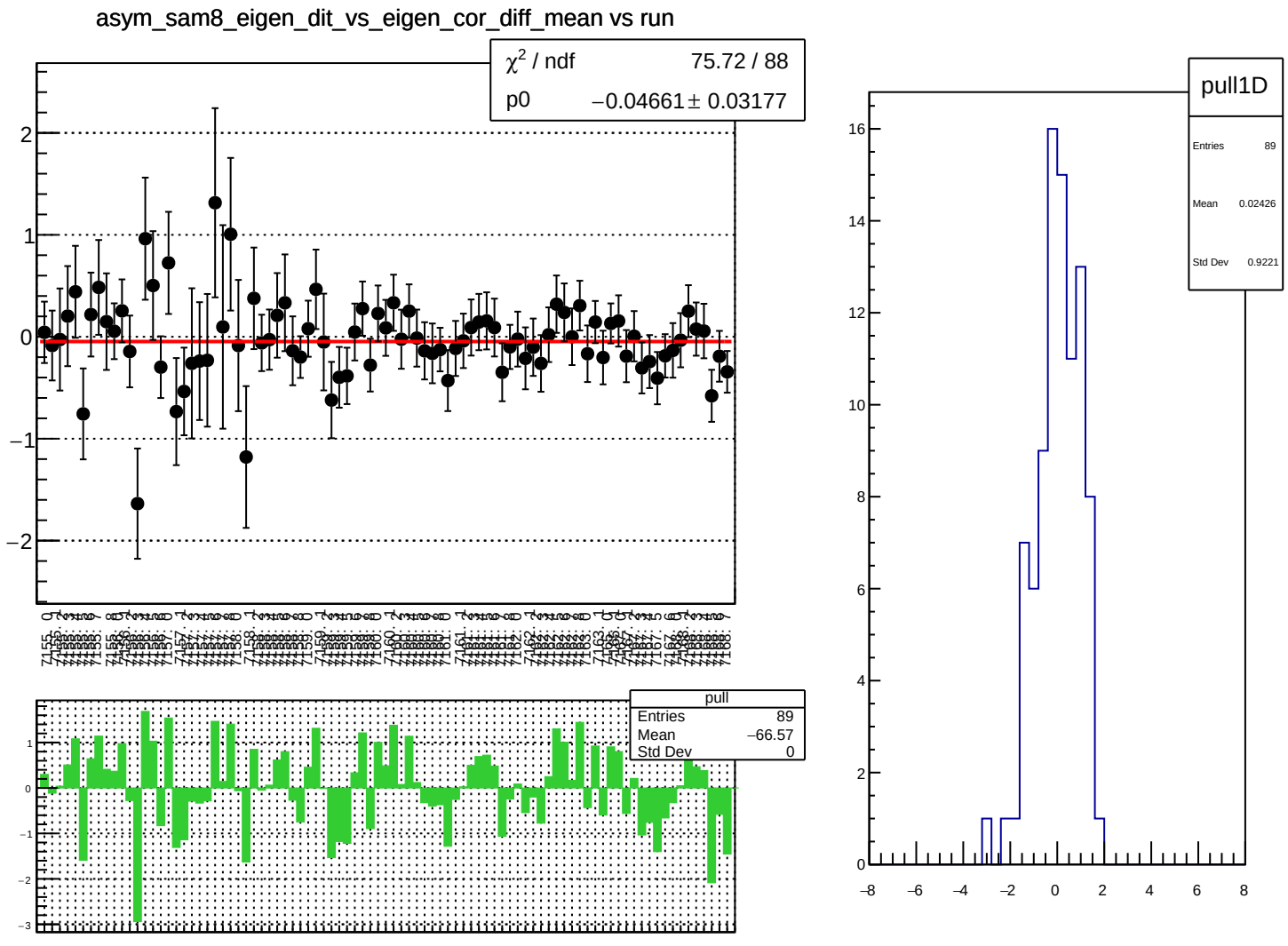

pull1D
Entries 89
Mean −0.02206
Std Dev 0.9823
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

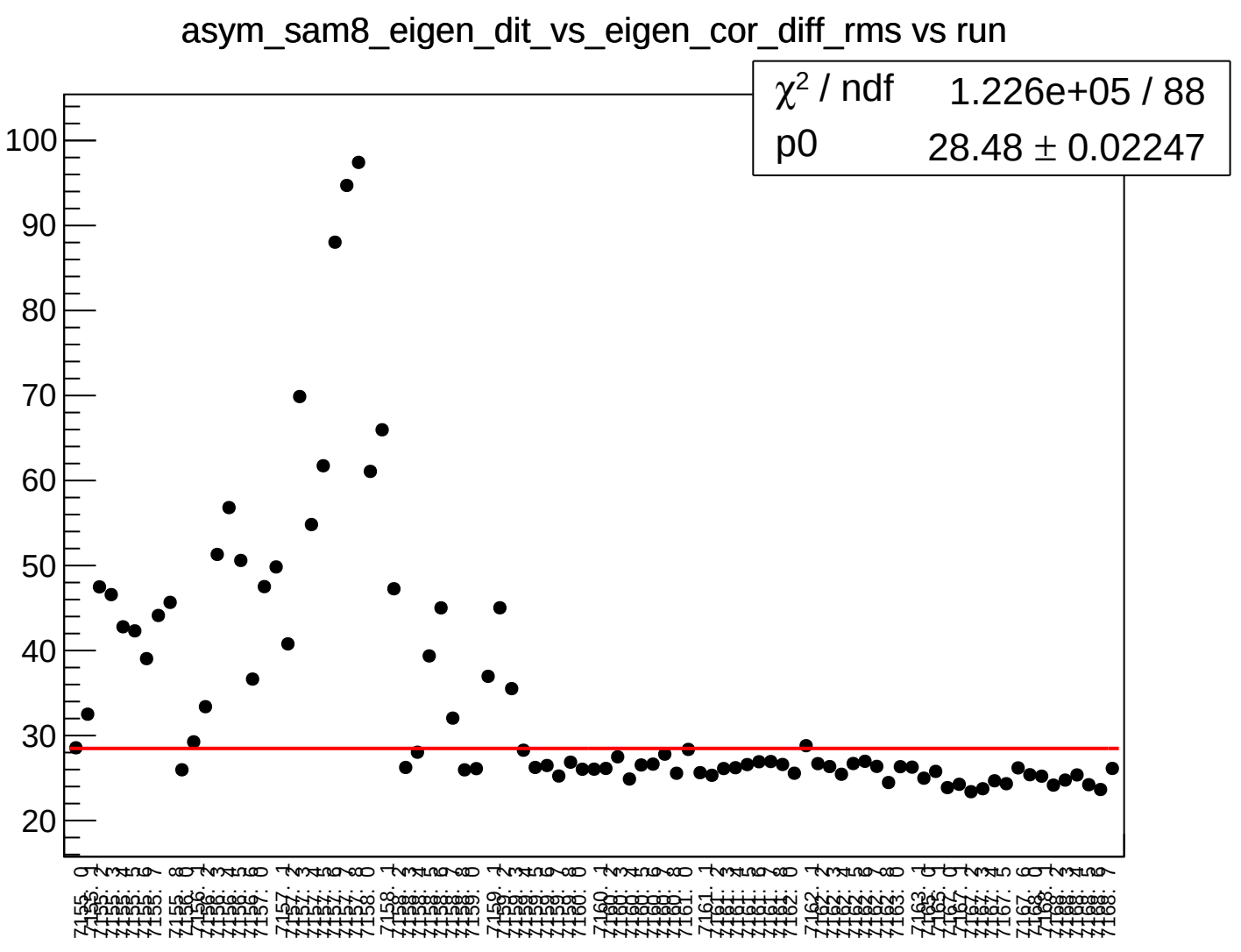

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.769e+04 / 88
p0 0.002653 ± 2.027e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

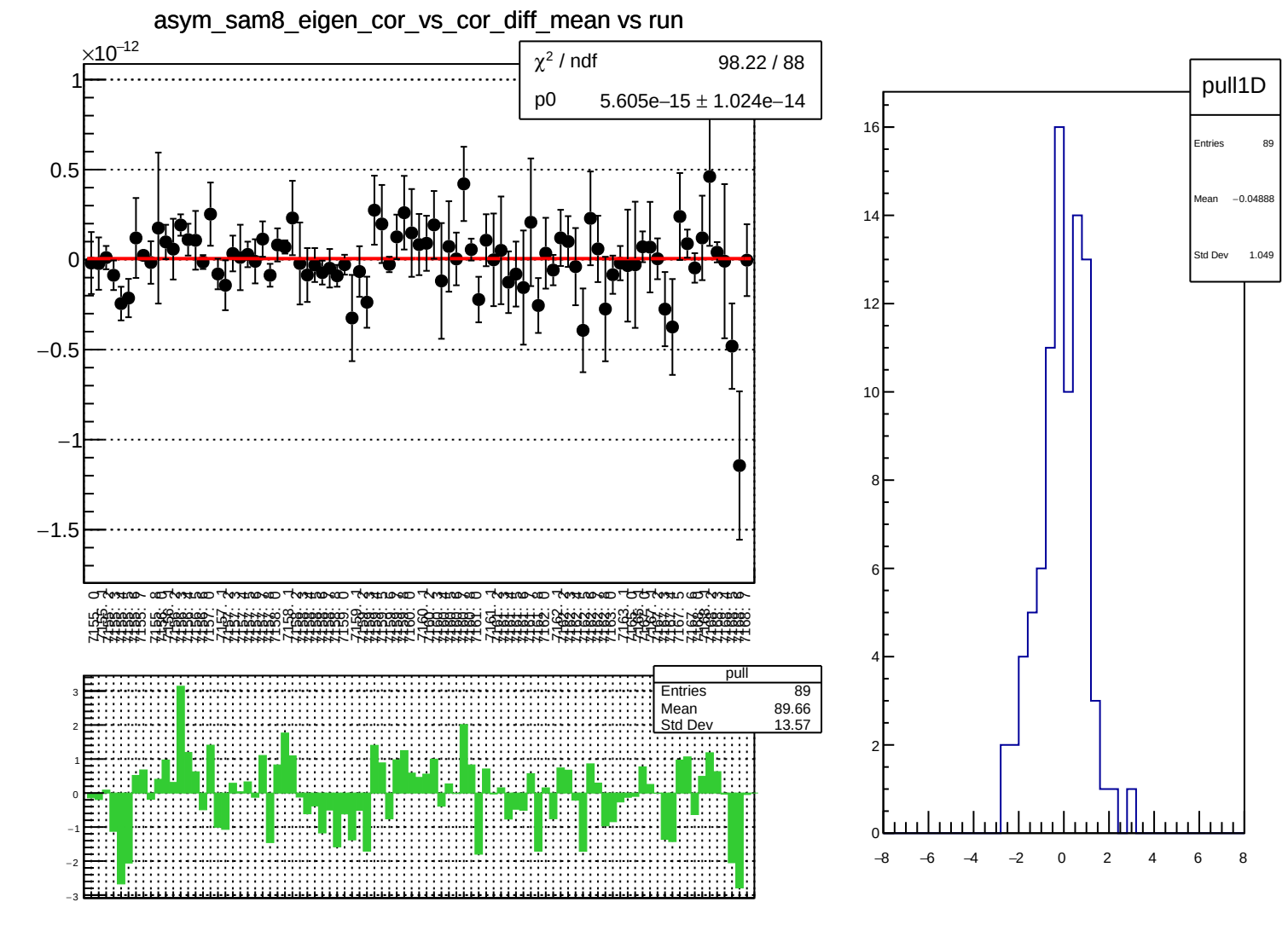

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.72 / 88
p0 −0.04661 ± 0.03177
pull
Entries 89
Mean −66.57
Std Dev 0

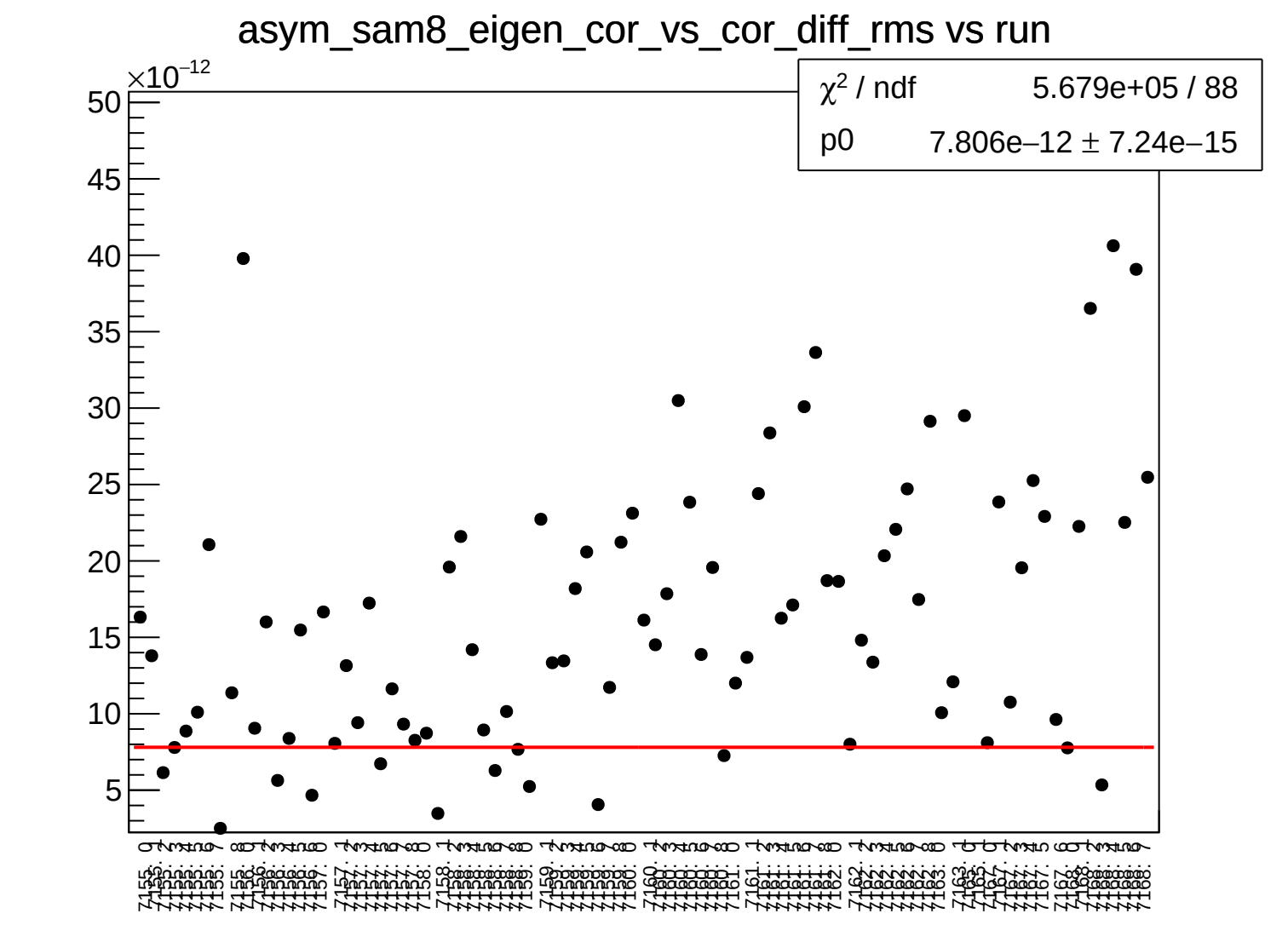

pull1D
Entries 89
Mean 0.02426
Std Dev 0.9221

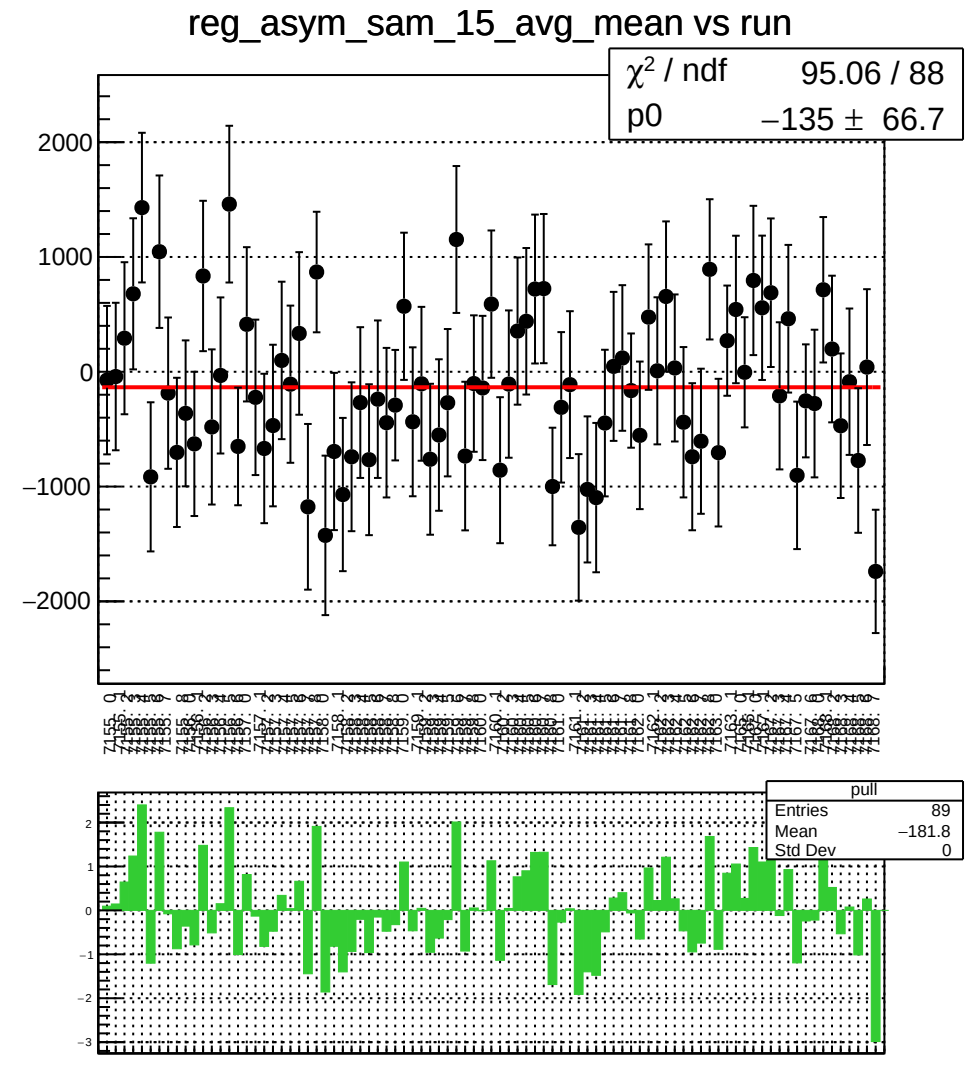

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.226e+05 / 88
p0 28.48 ± 0.02247
100
90
80
70
60
50
40
30
20

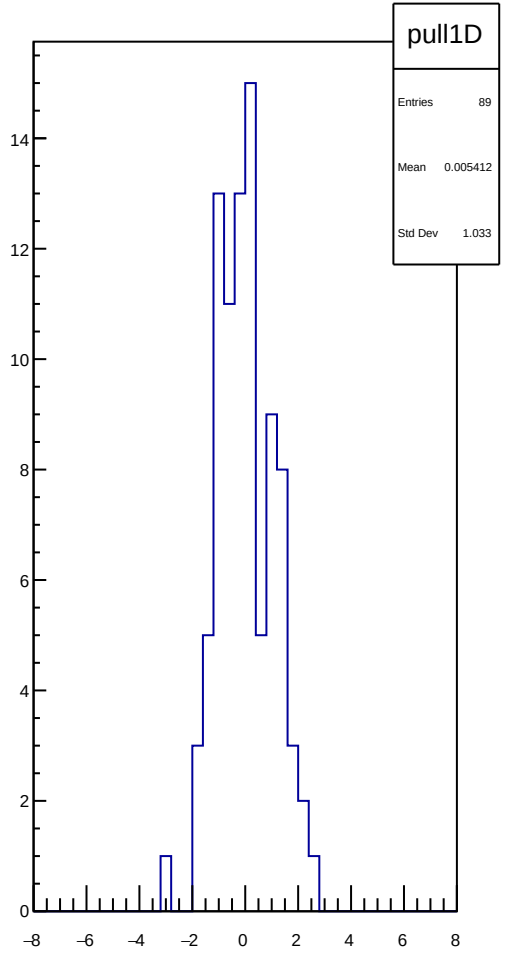

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.72 / 88
p0 −0.04661 ± 0.03177
pull
Entries 89
Mean −66.57
Std Dev 0
pull1D
Entries 89
Mean 0.02426
Std Dev 0.9221

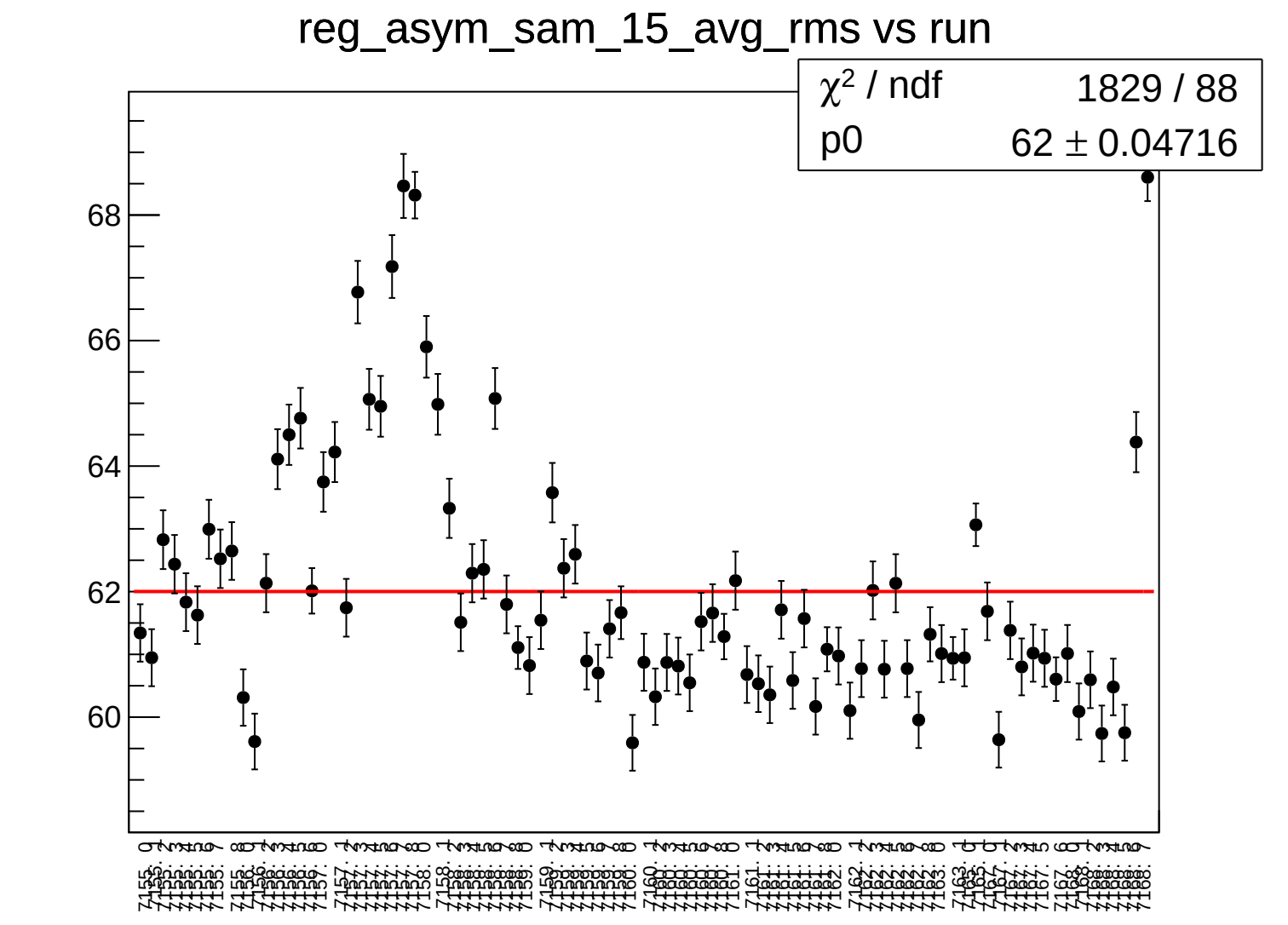

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.226e+05 / 88
p0 28.48 ± 0.02247
100
90
80
70
60
50
40
30
20

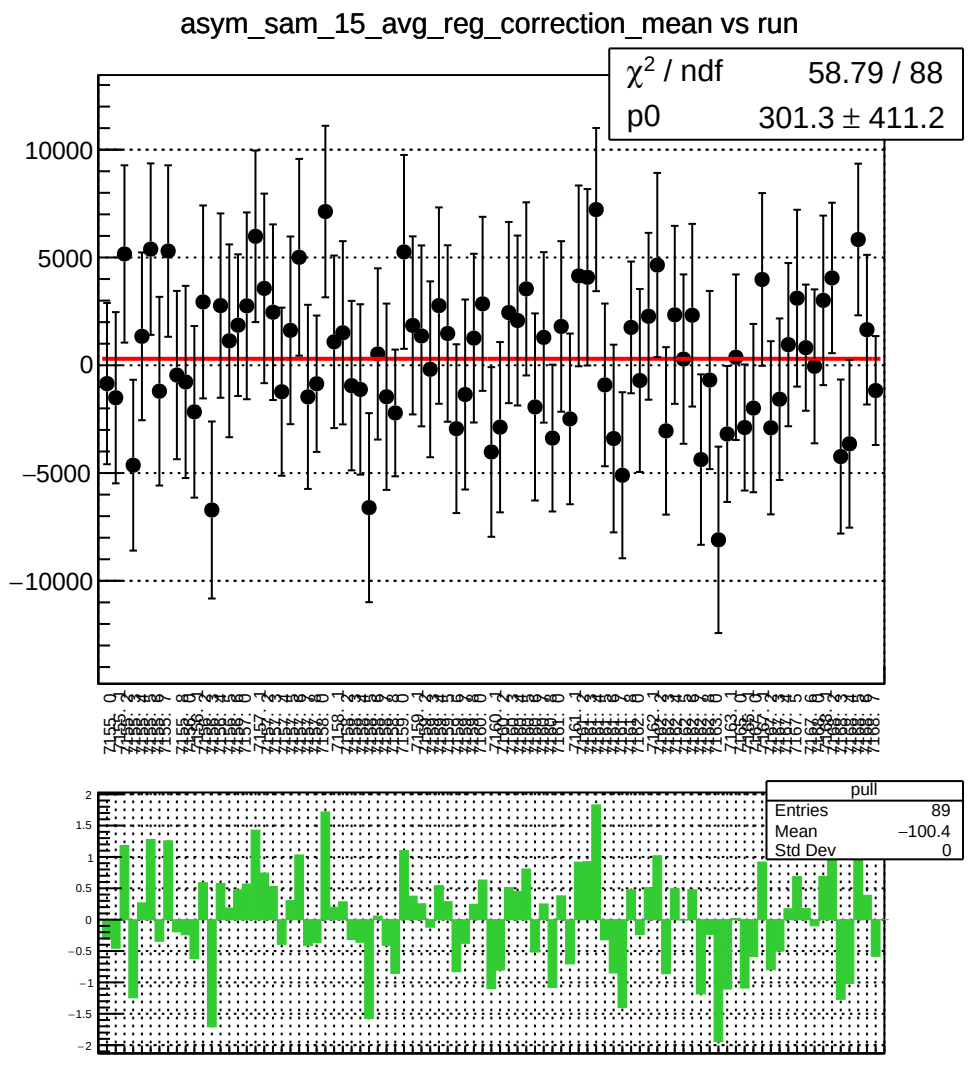

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 98.22 / 88
p0 5.605e−15 ± 1.024e−14
pull
Entries 89
Mean 89.66
Std Dev 13.57
pull1D
Entries 89
Mean −0.04888
Std Dev 1.049

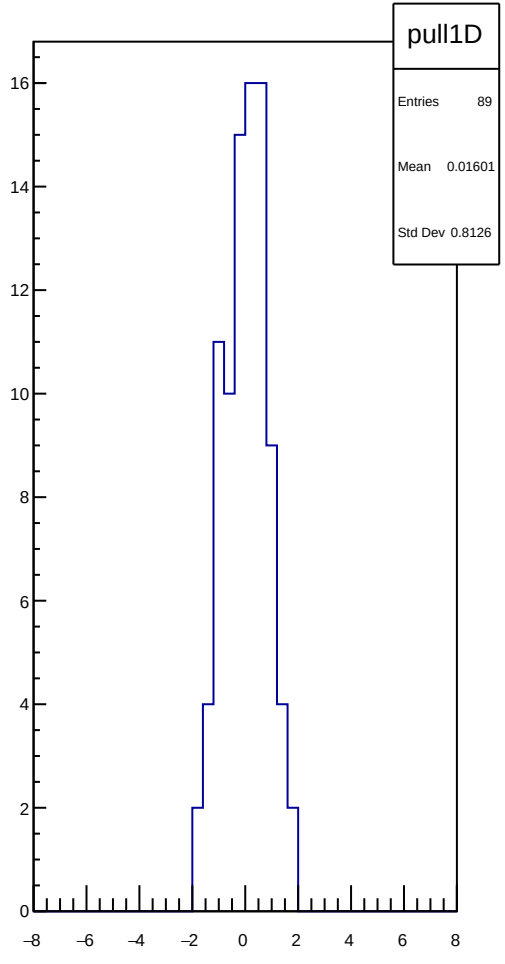

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.679e+05 / 88
p0 7.806e−12 ± 7.24e−15
50
45
40
35
30
25
20
15
10
5

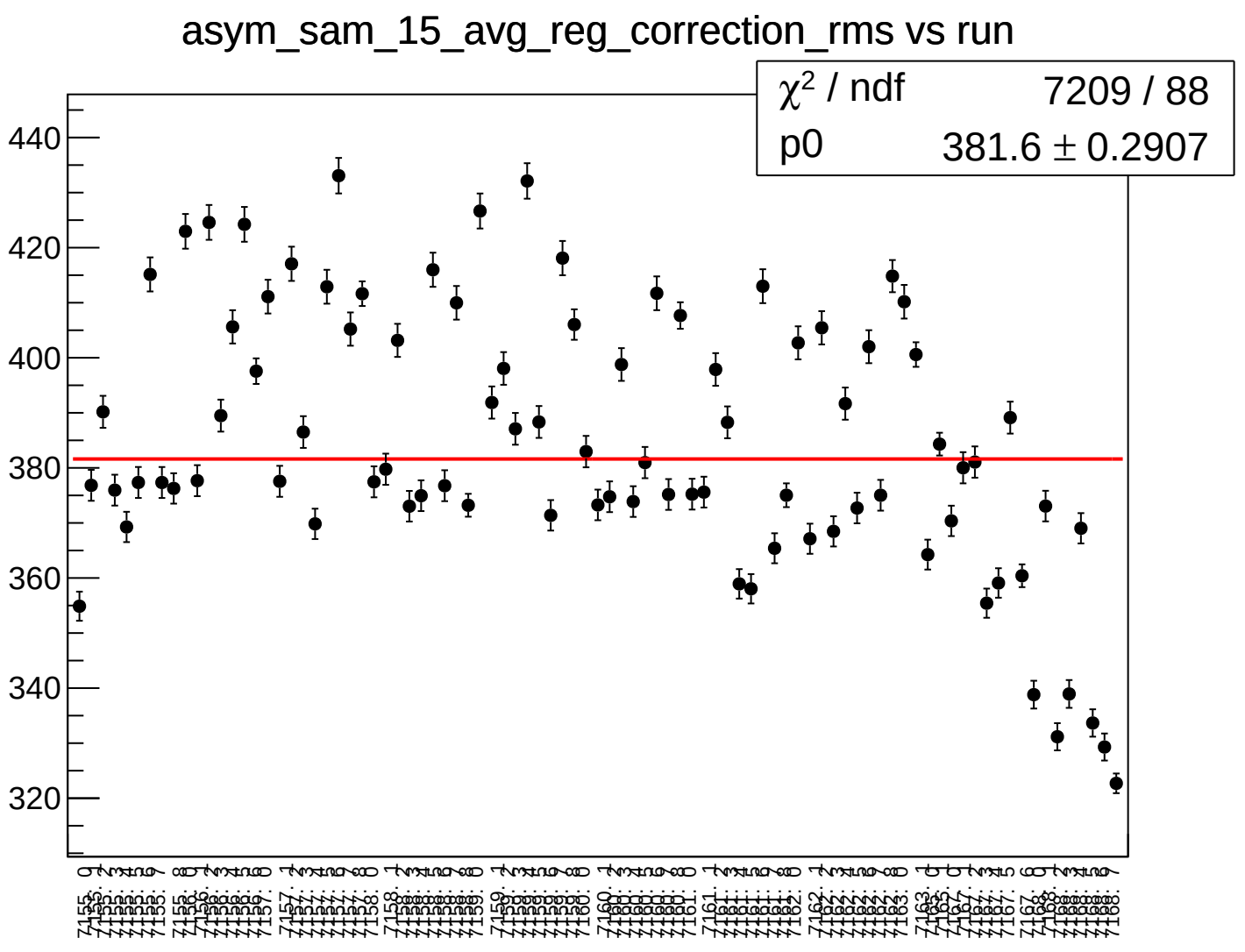

reg_asym_sam_15_avg_mean vs run
χ² / ndf 95.06 / 88
p0 −135 ± 66.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −181.8
Std Dev 0
2
1
0
−1
−2
−3

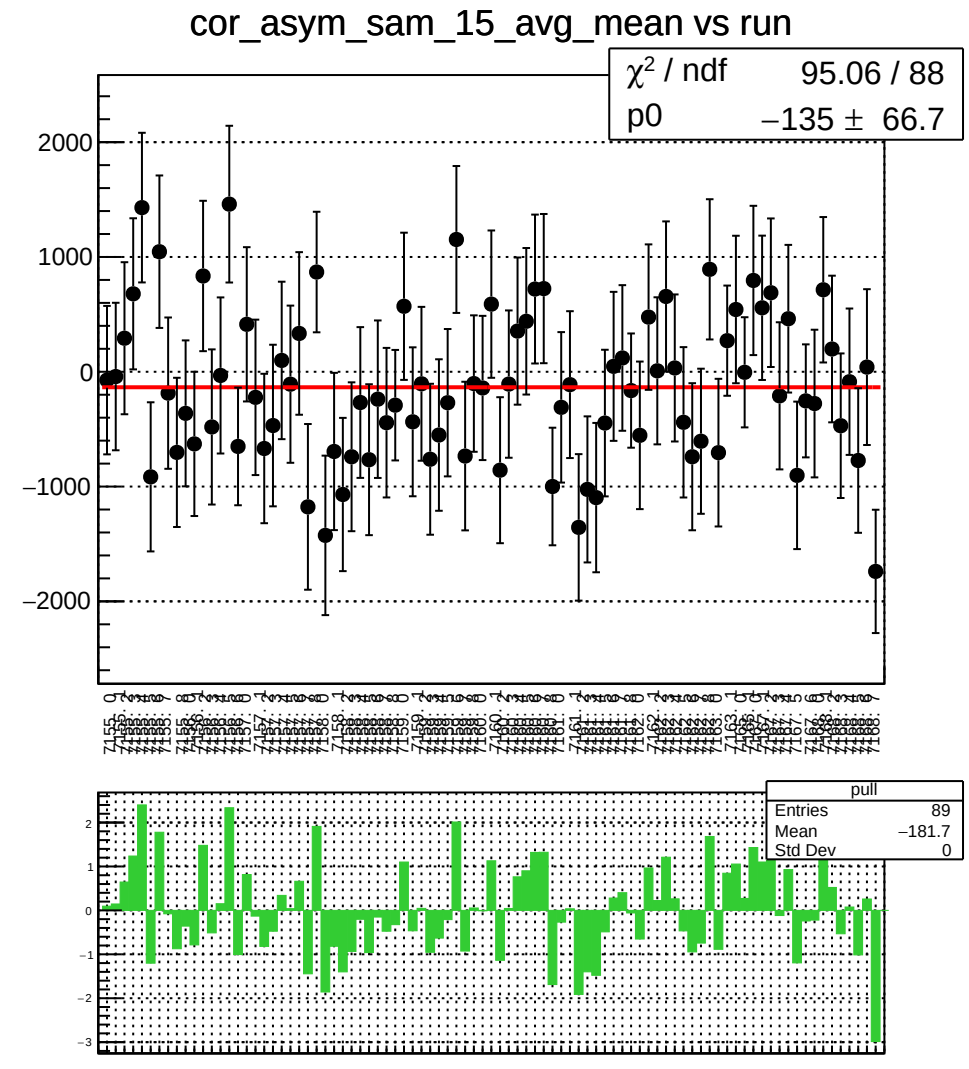

pull1D
Entries 89
Mean 0.005412
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

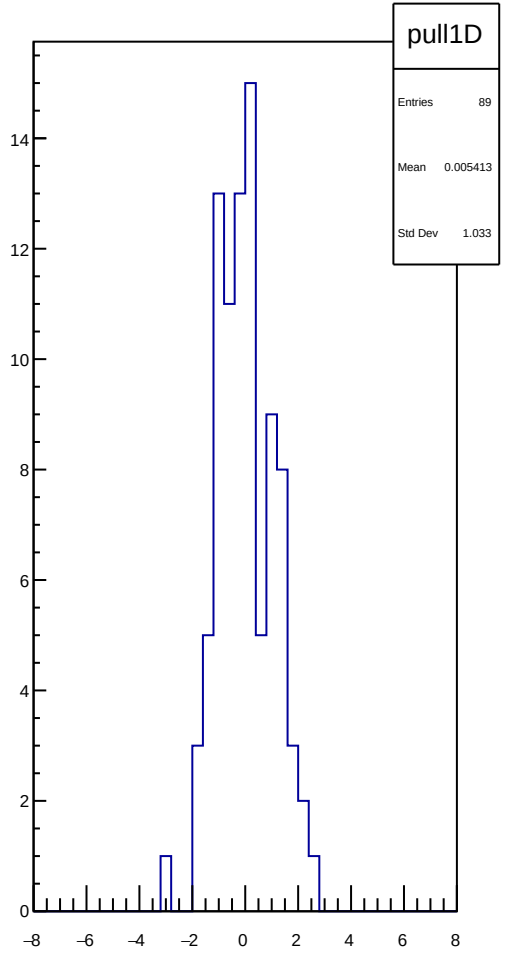

reg_asym_sam_15_avg_rms vs run
χ² / ndf 1829 / 88
p0 62 ± 0.04716
68
66
64
62
60

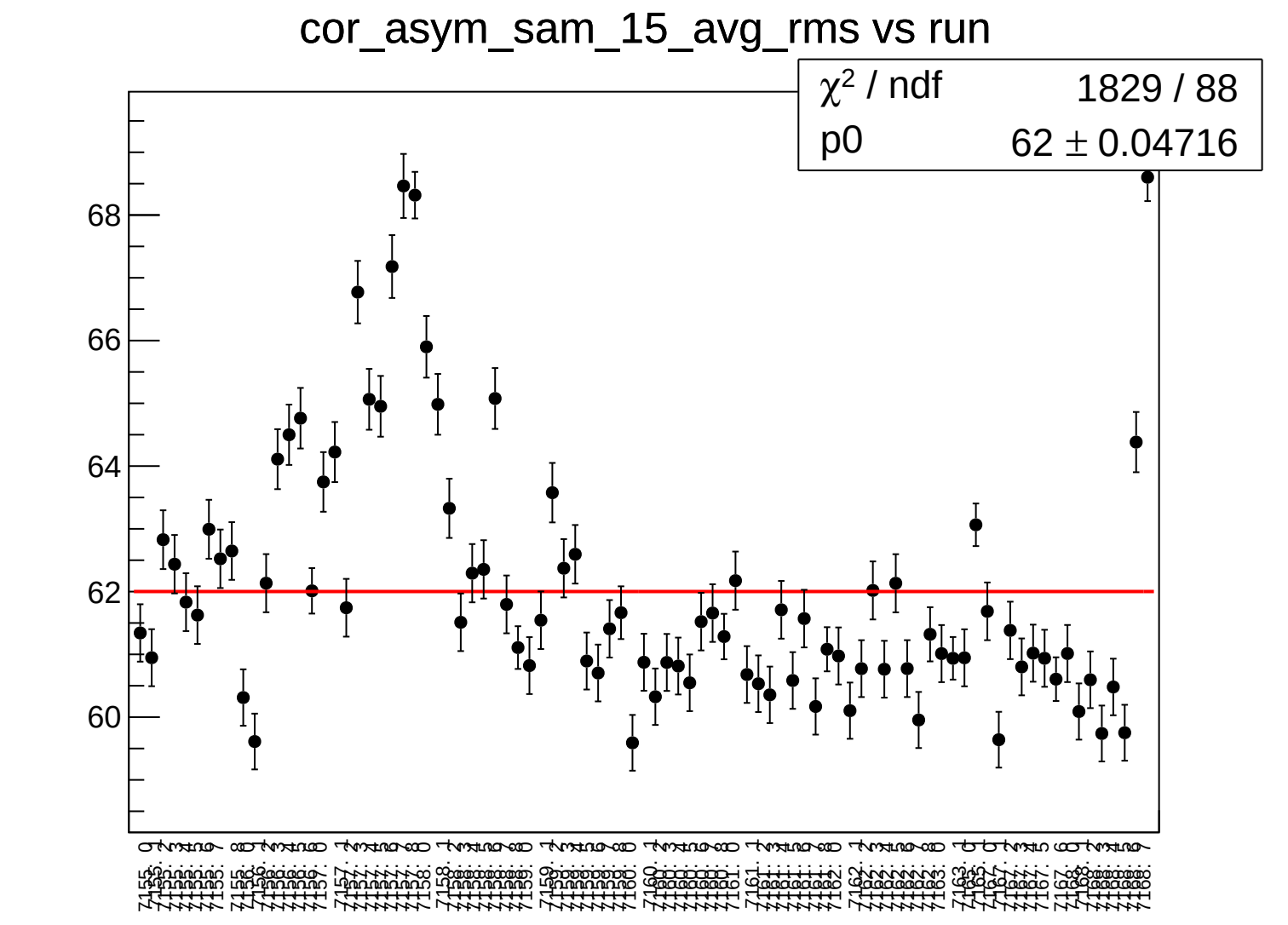

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 58.79 / 88
p0 301.3 ± 411.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

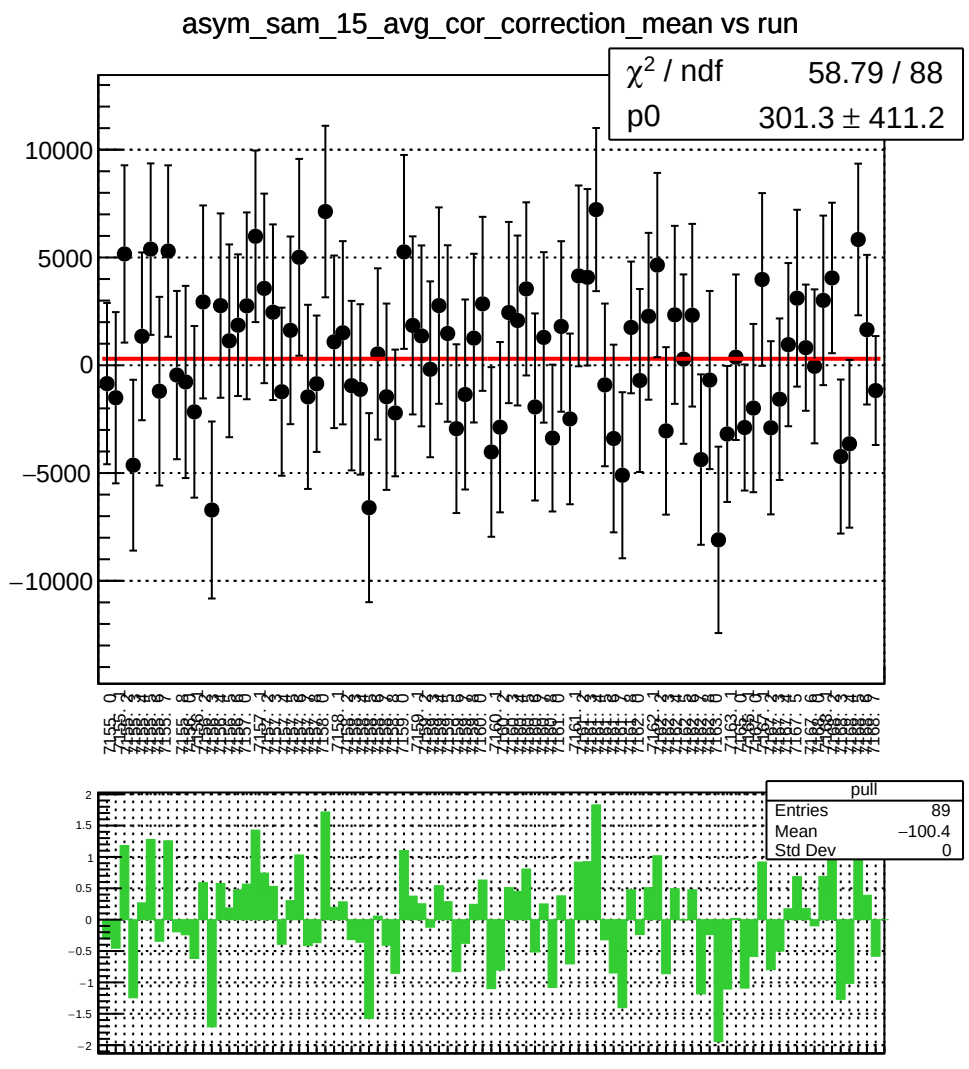

pull1D
Entries 89
Mean 0.01601
Std Dev 0.8126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

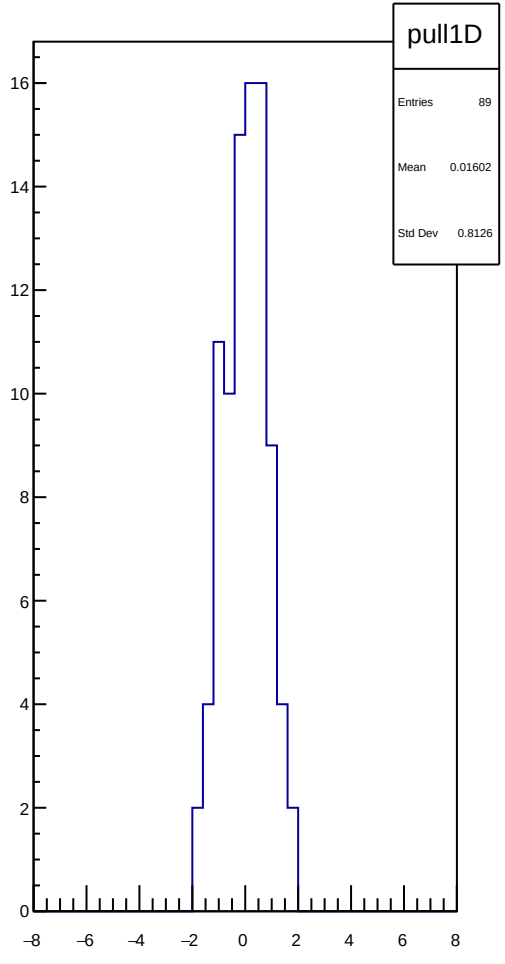

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 7209 / 88
p0 381.6 ± 0.2907
440
420
400
380
360
340
320

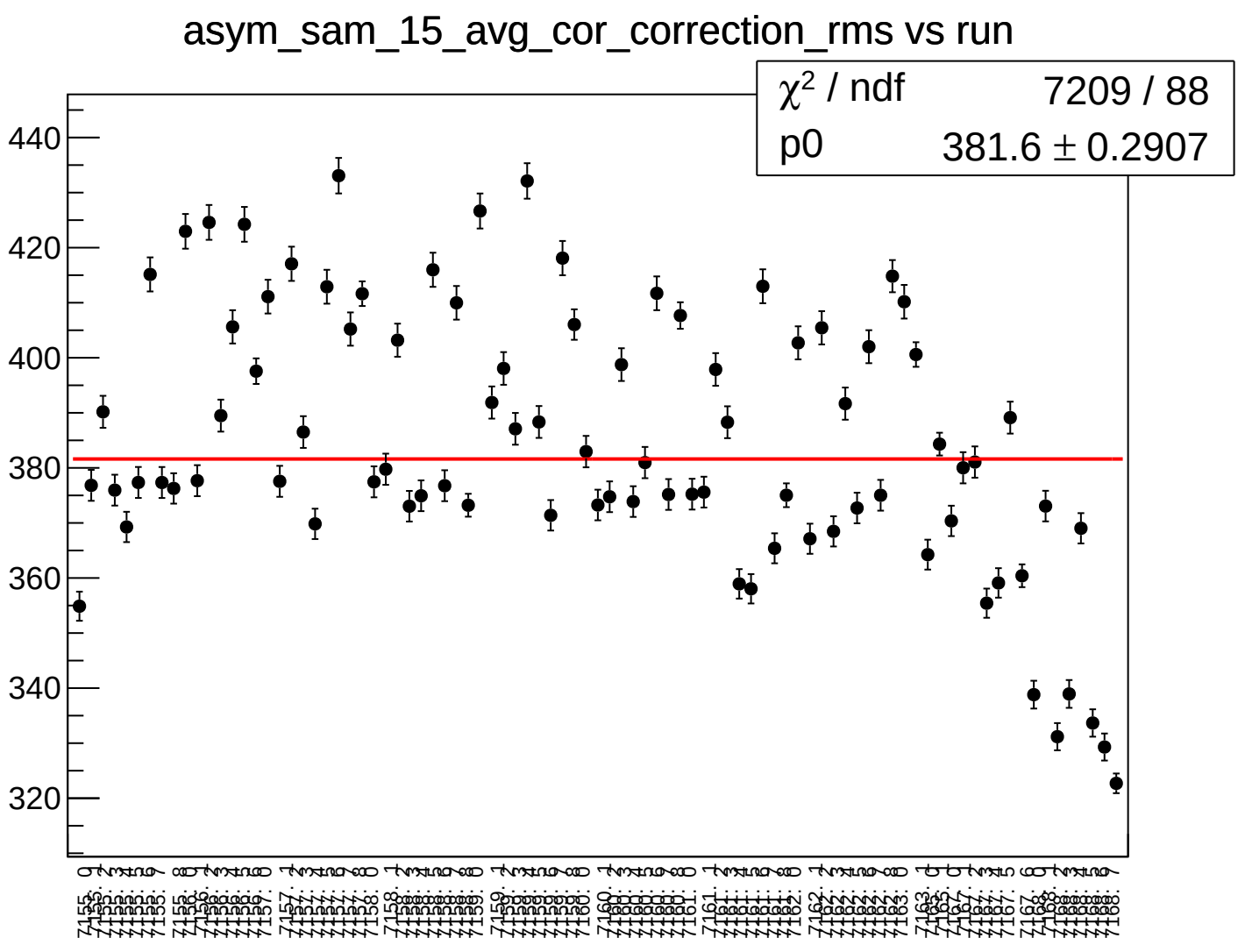

cor_asym_sam_15_avg_mean vs run
χ² / ndf 95.06 / 88
p0 −135 ± 66.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −181.7
Std Dev 0
2
1
0
−1
−2
−3

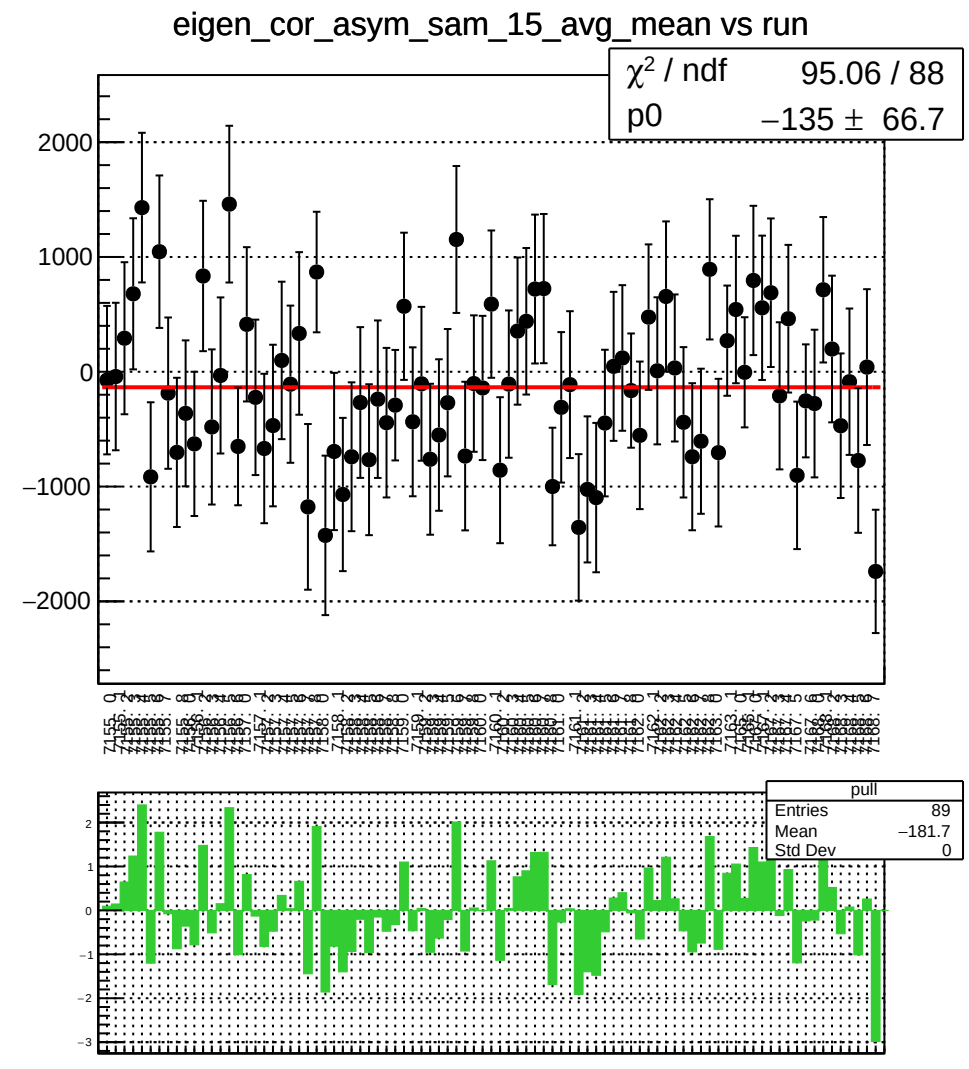

pull1D
Entries 89
Mean 0.005413
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

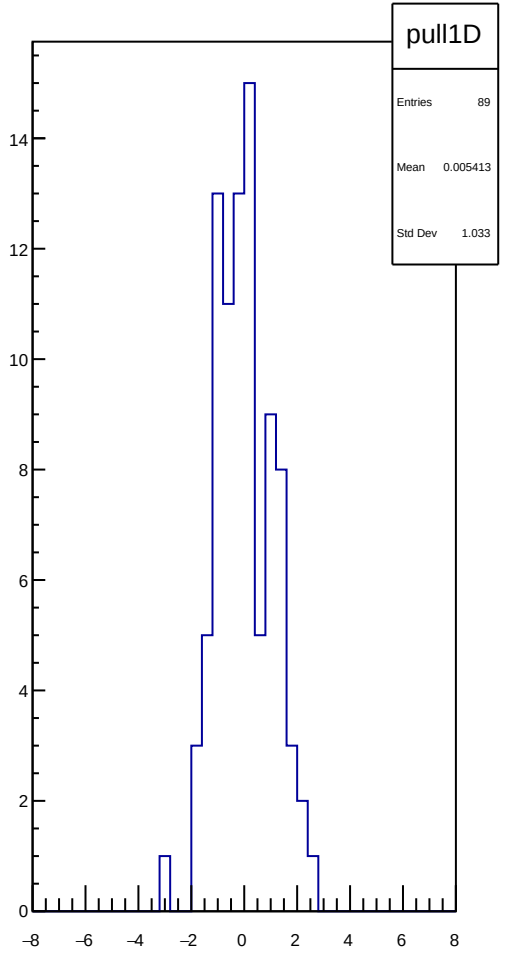

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1829 / 88
p0 62 ± 0.04716
68
66
64
62
60

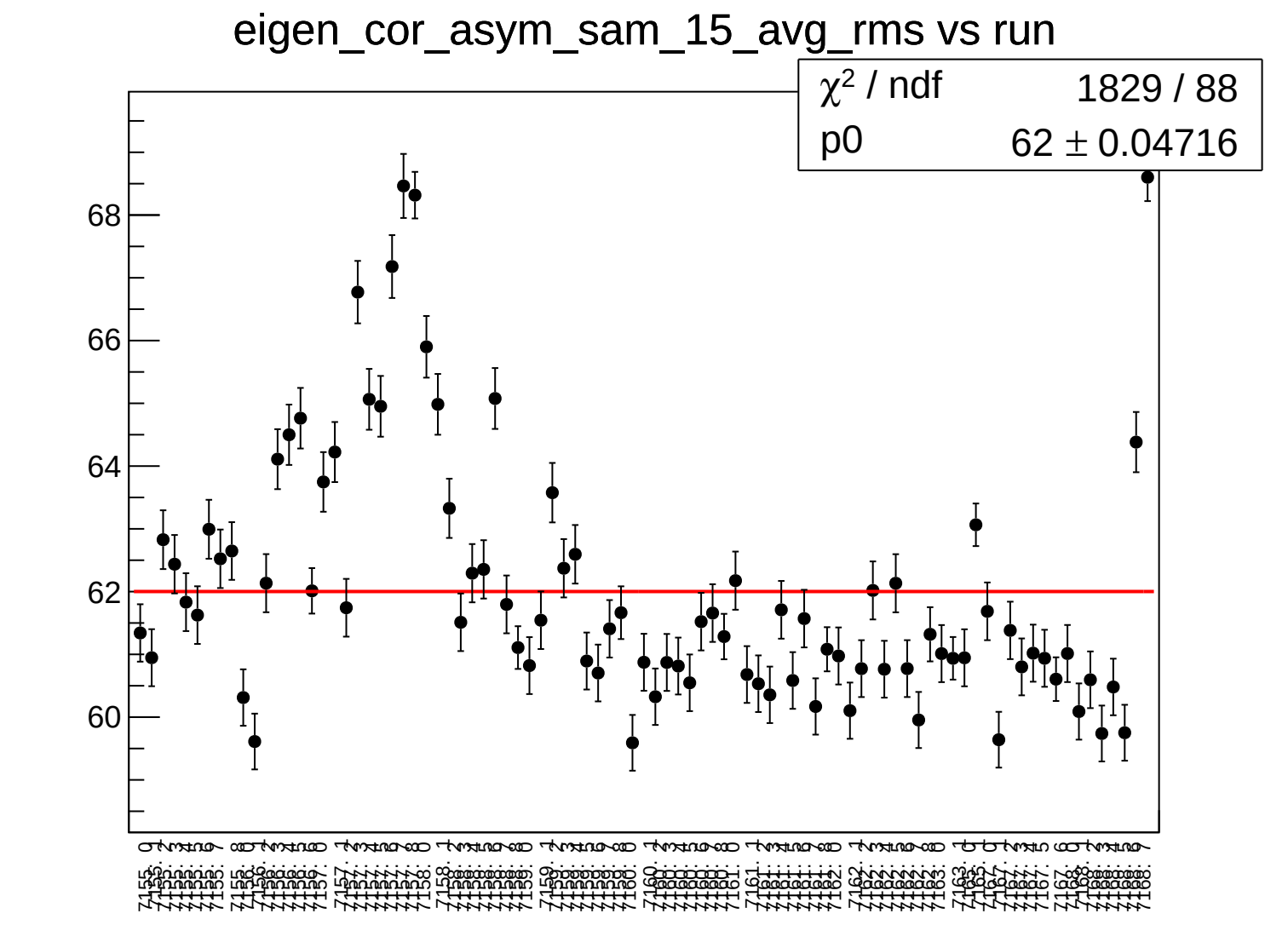

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 58.79 / 88
p0 301.3 ± 411.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

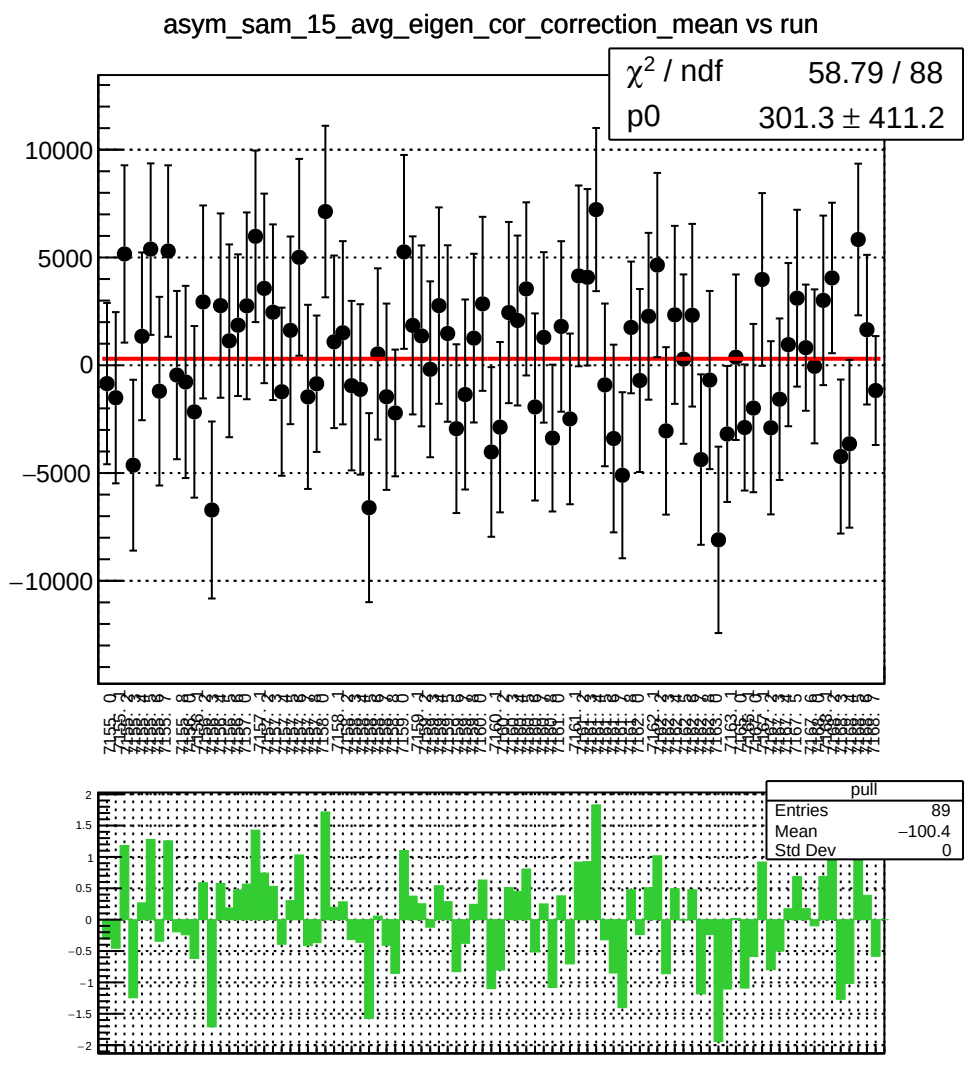

pull1D
Entries 89
Mean 0.01602
Std Dev 0.8126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

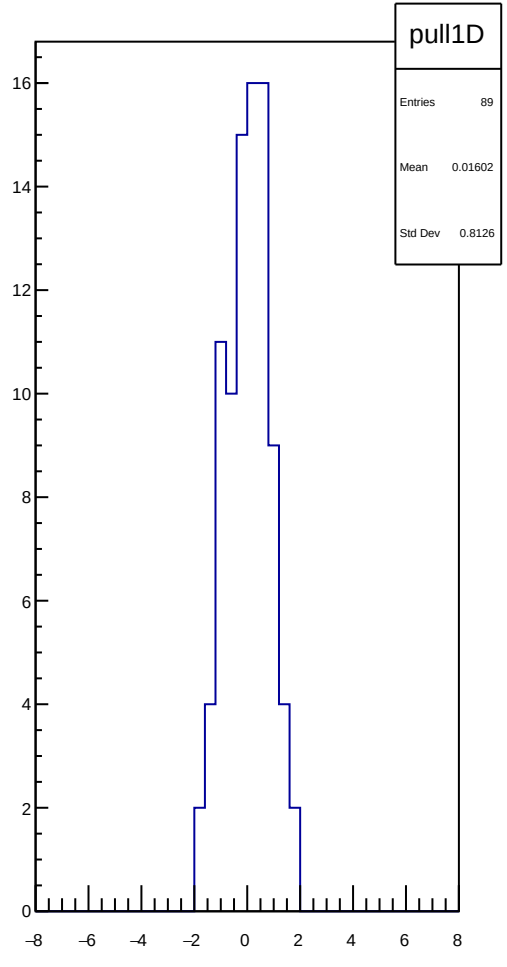

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 7209 / 88
p0 381.6 ± 0.2907
440
420
400
380
360
340
320

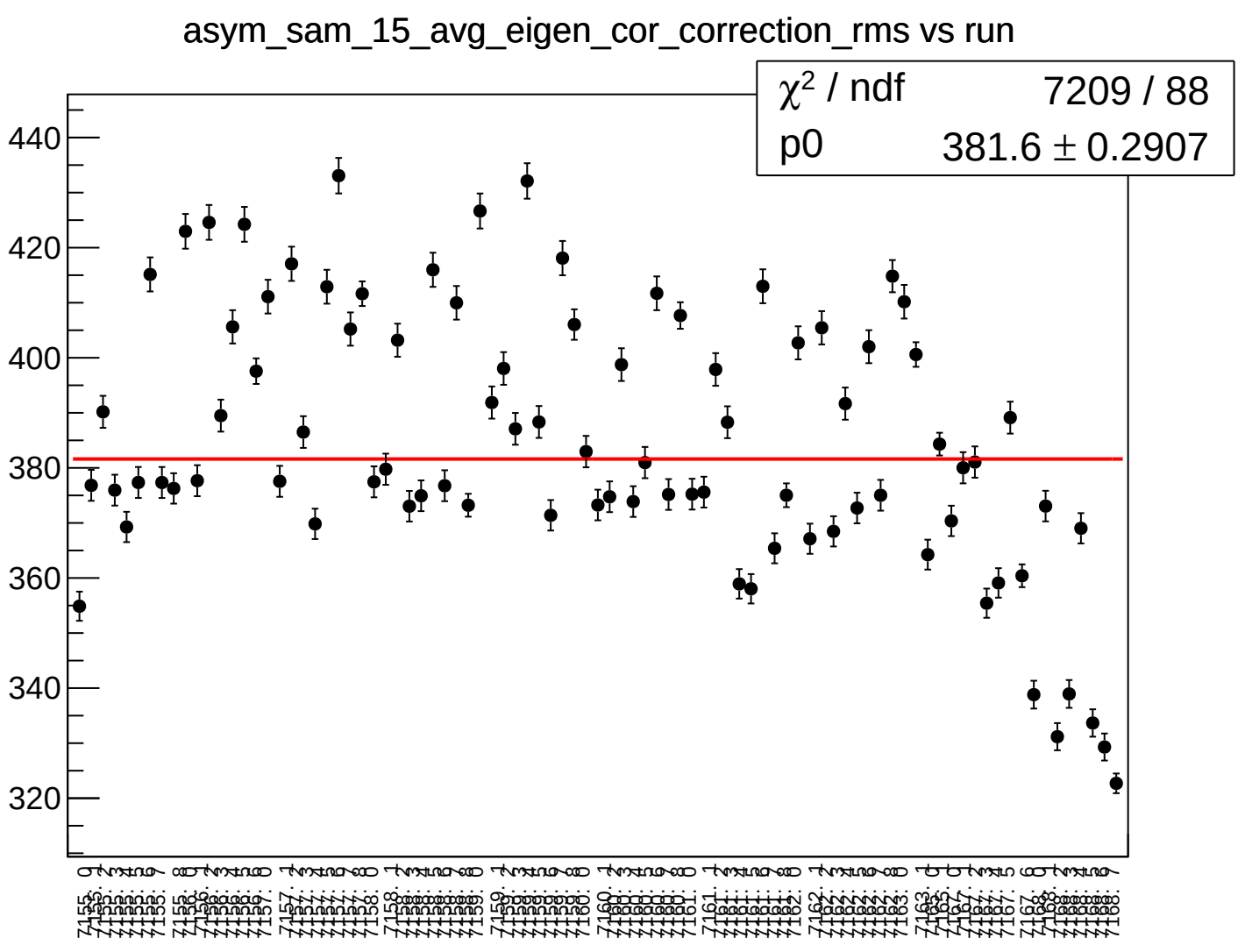

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 95.06 / 88
p0 −135 ± 66.7
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −181.7
Std Dev 0
2
1
0
−1
−2
−3

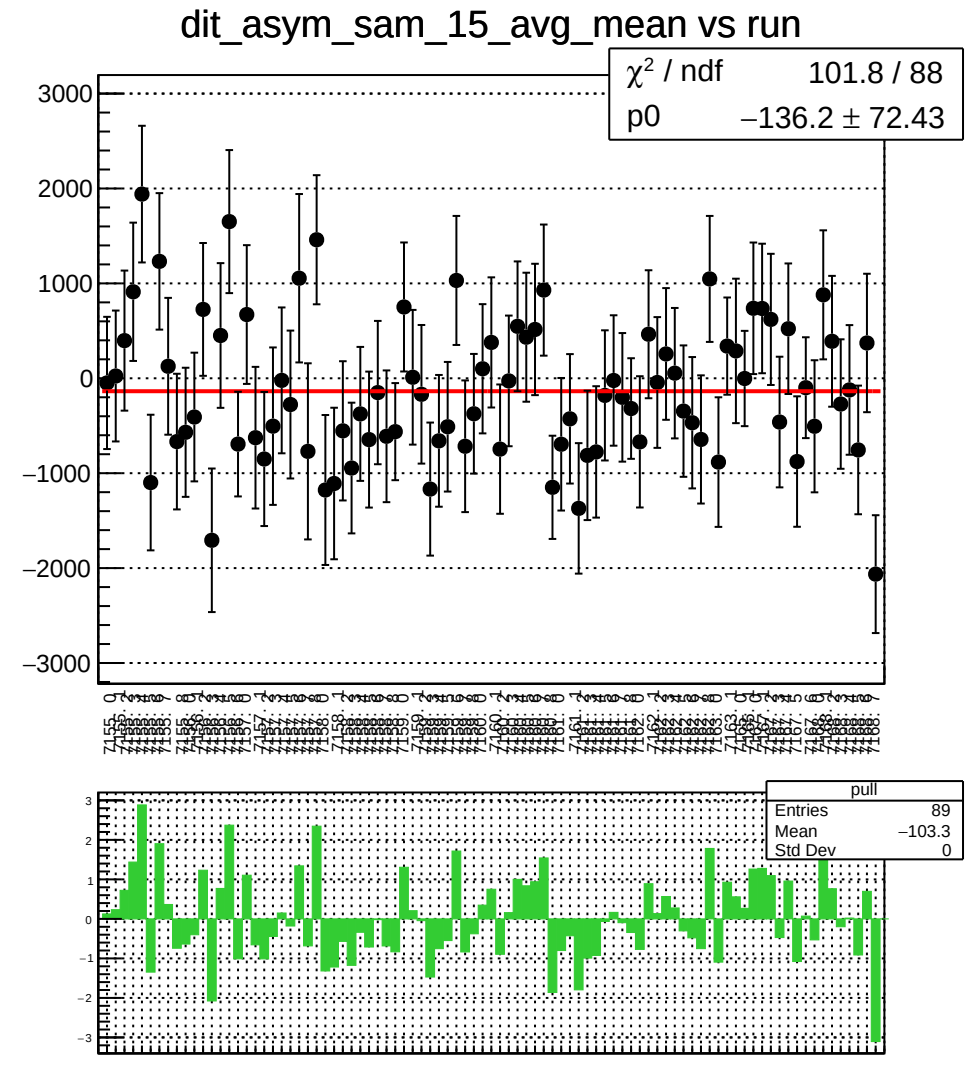

pull1D
Entries 89
Mean 0.005413
Std Dev 1.033
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

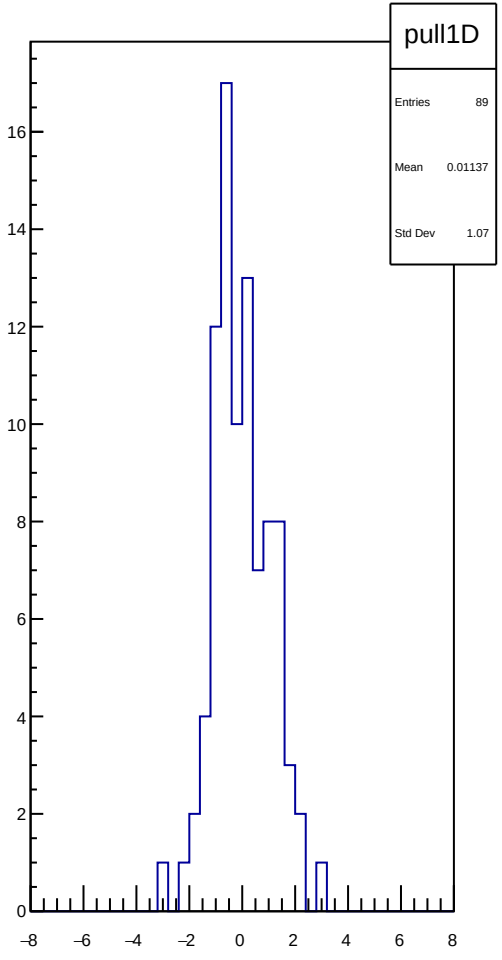

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 1829 / 88
p0 62 ± 0.04716
68
66
64
62
60

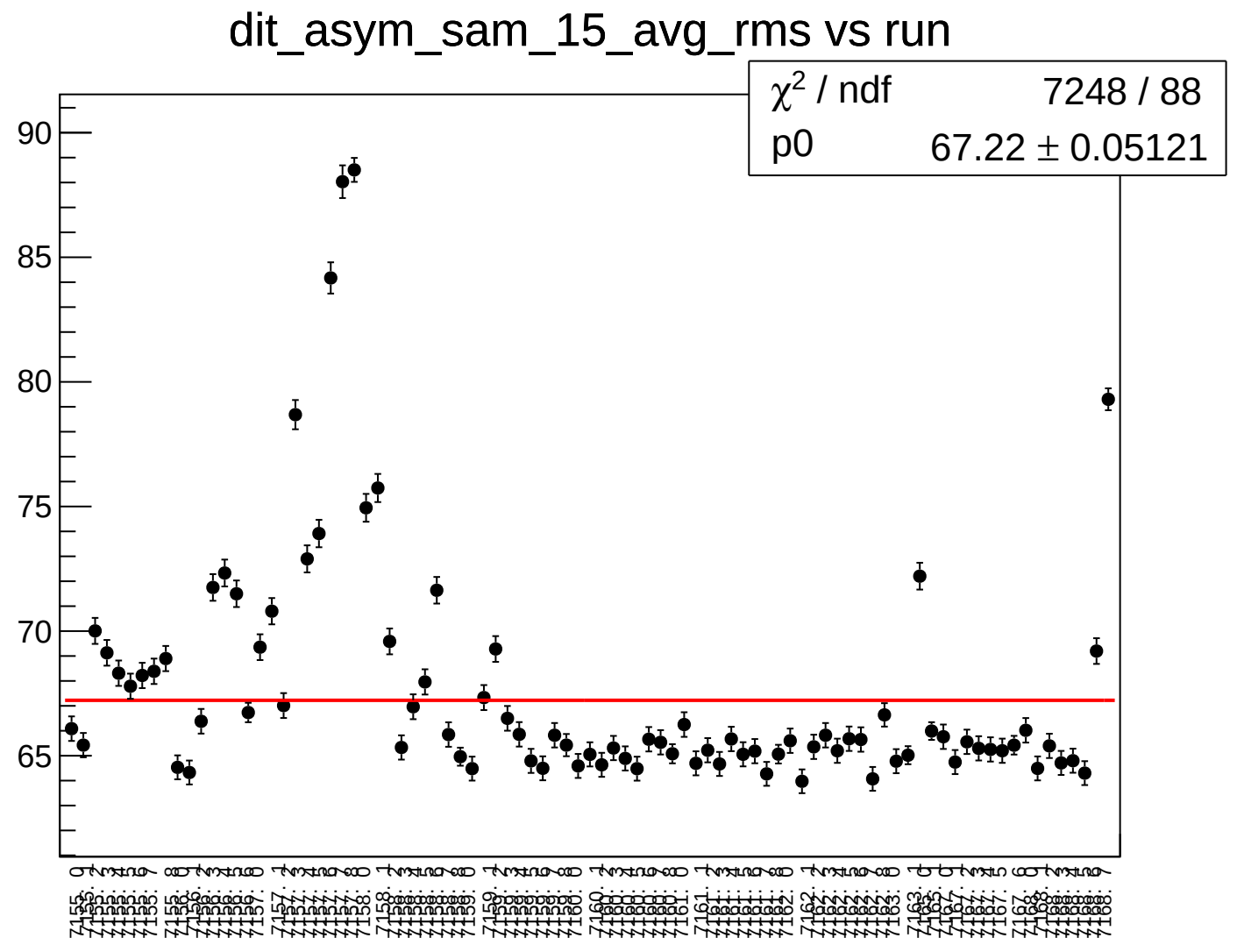

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 58.79 / 88
p0 301.3 ± 411.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −100.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

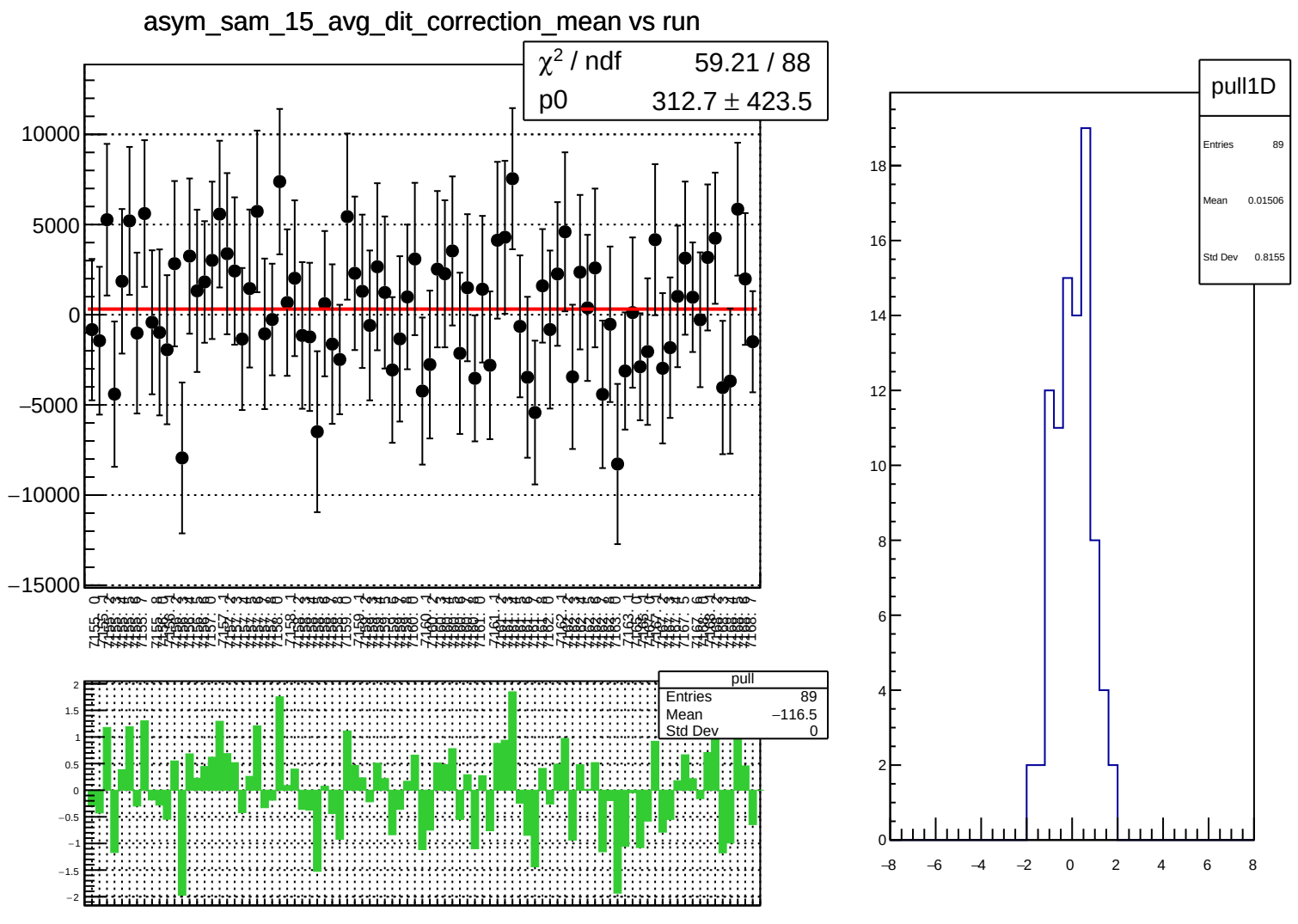

pull1D
Entries 89
Mean 0.01602
Std Dev 0.8126
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

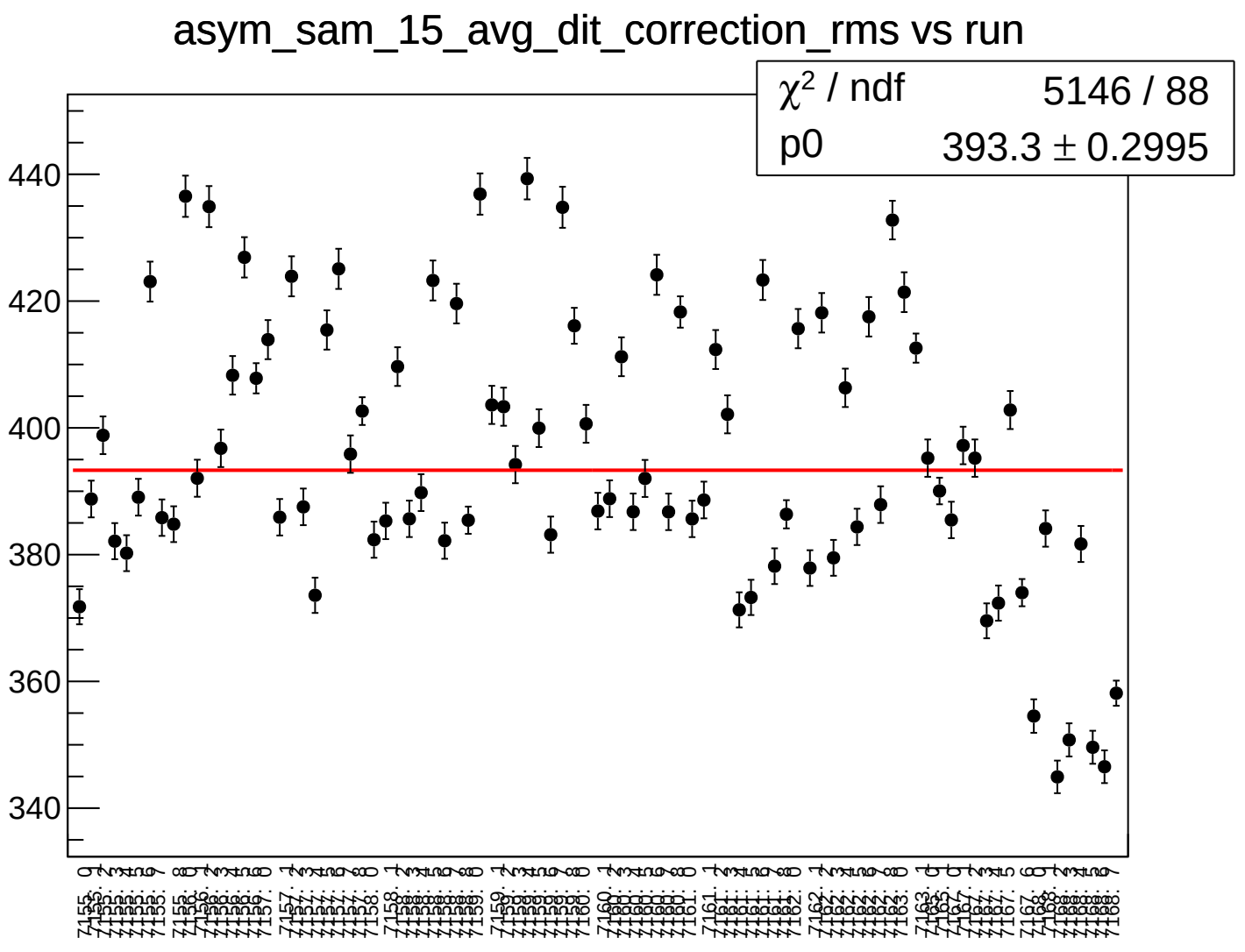

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 7209 / 88
p0 381.6 ± 0.2907
440
420
400
380
360
340
320

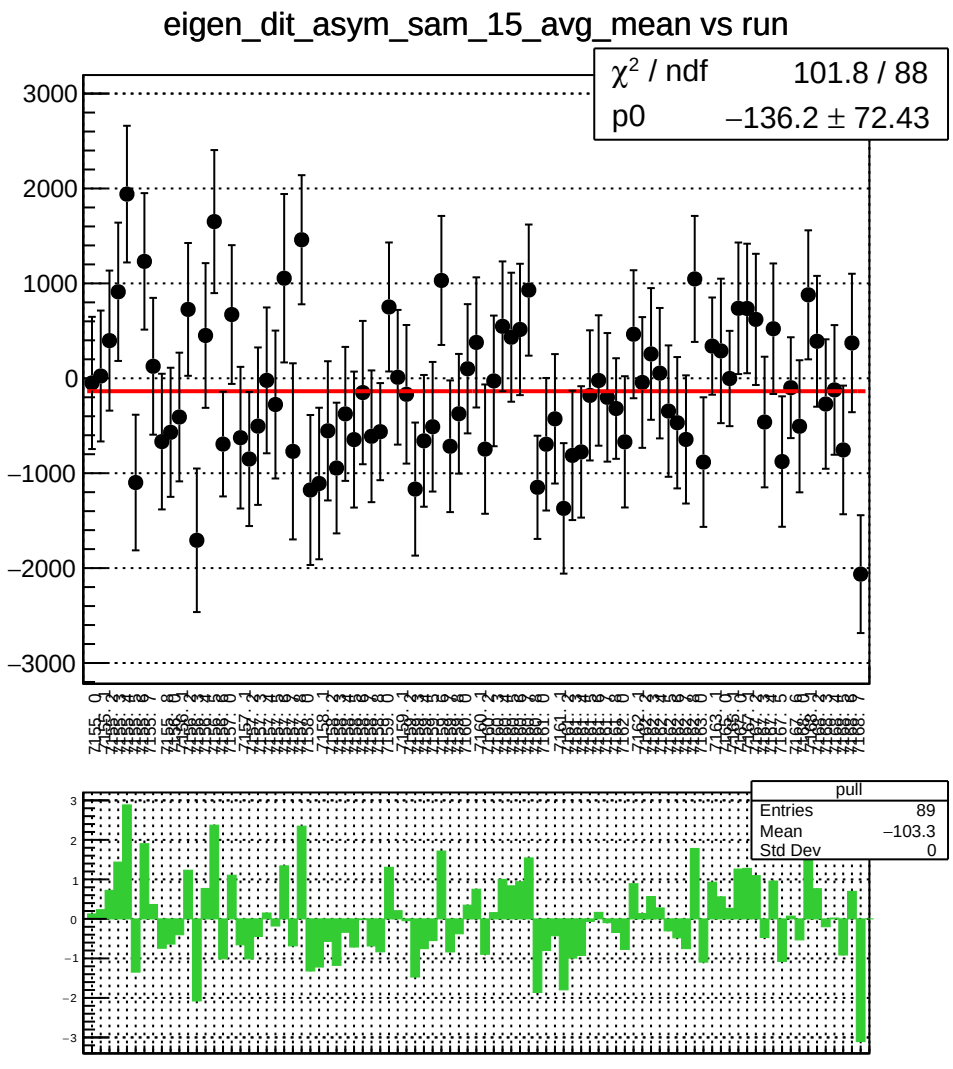

dit_asym_sam_15_avg_mean vs run
χ² / ndf 101.8 / 88
p0 −136.2 ± 72.43
pull
Entries 89
Mean −103.3
Std Dev 0

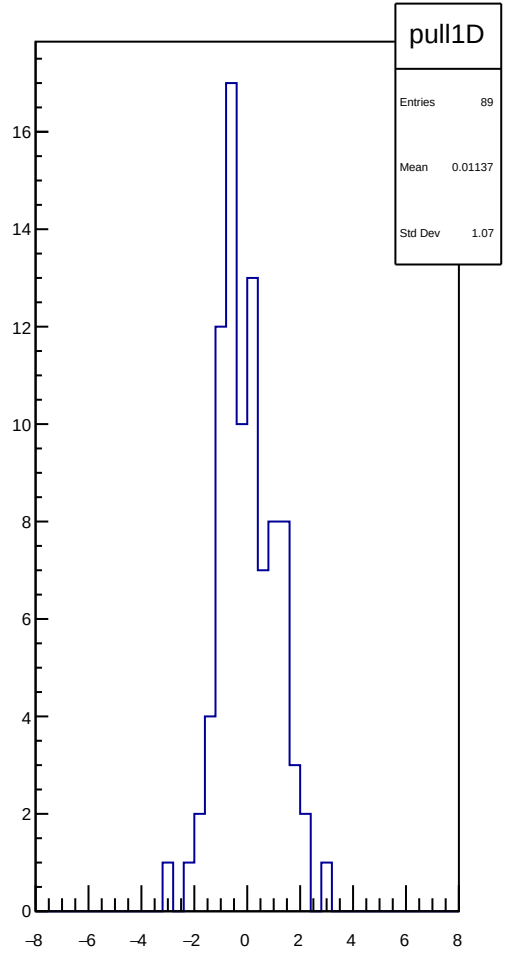

pull1D
Entries 89
Mean 0.01137
Std Dev 1.07

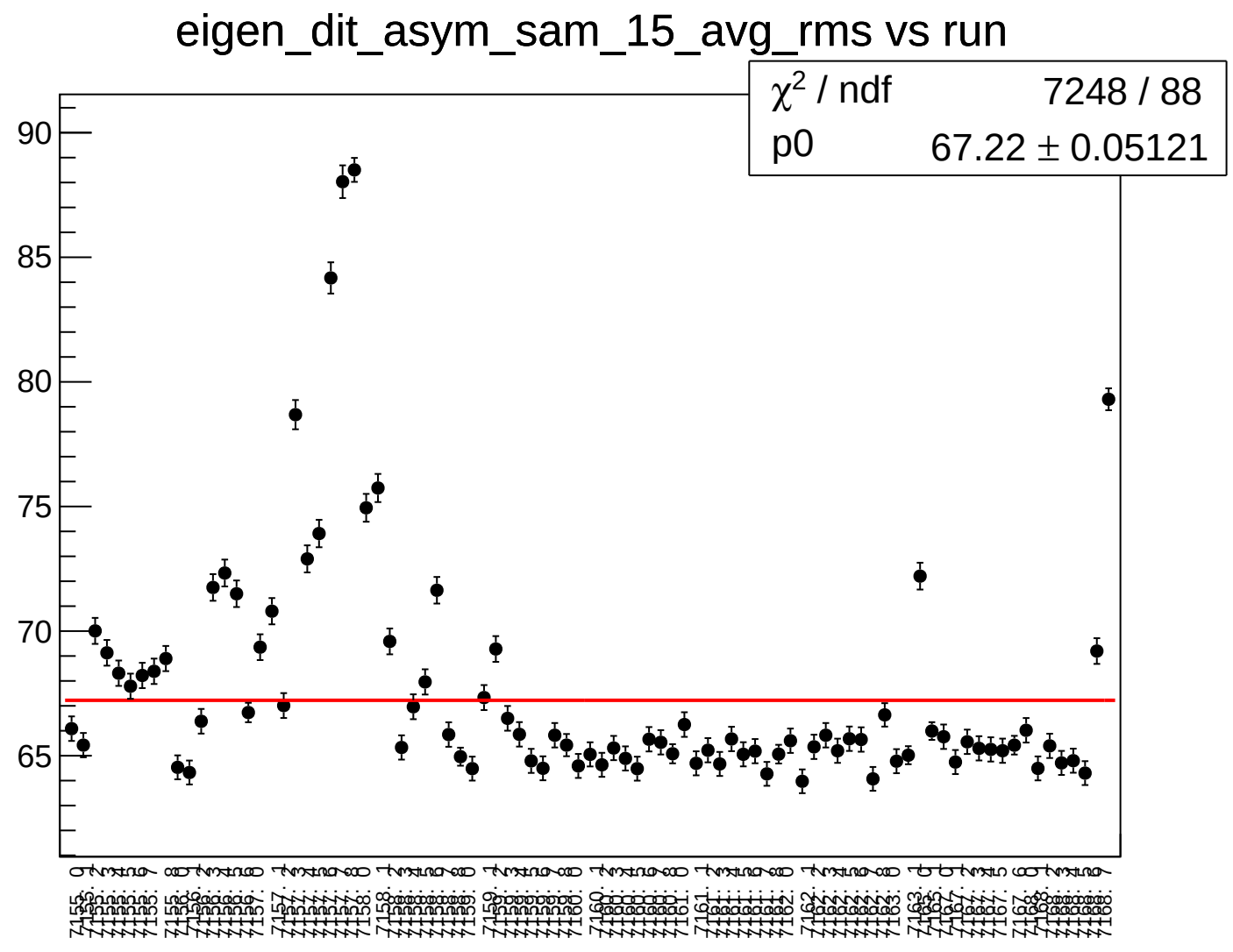

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 7248 / 88
p0 67.22 ± 0.05121
90
85
80
75
70
65

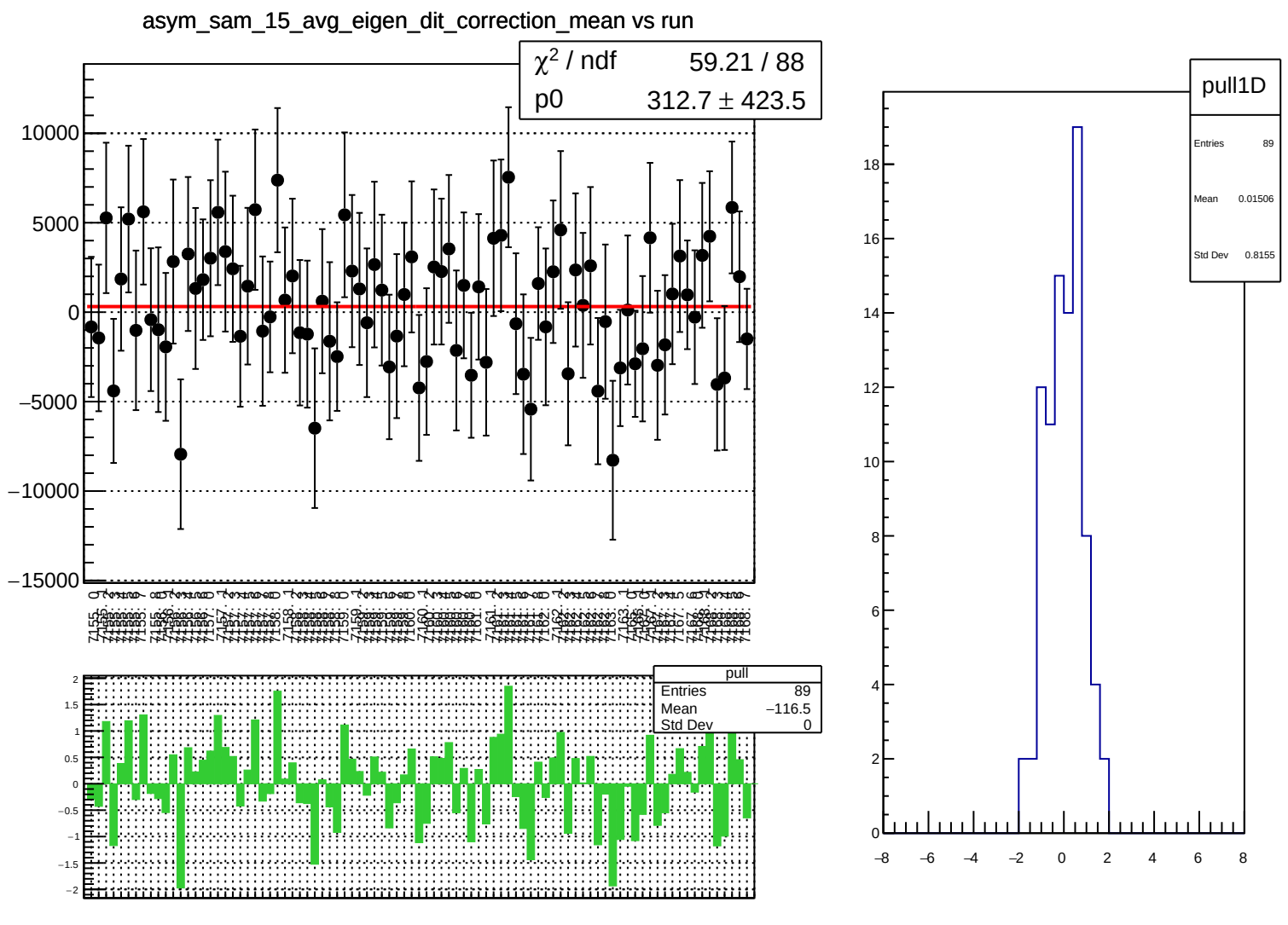

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 59.21 / 88
p0 312.7 ± 423.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −116.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01506
Std Dev 0.8155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

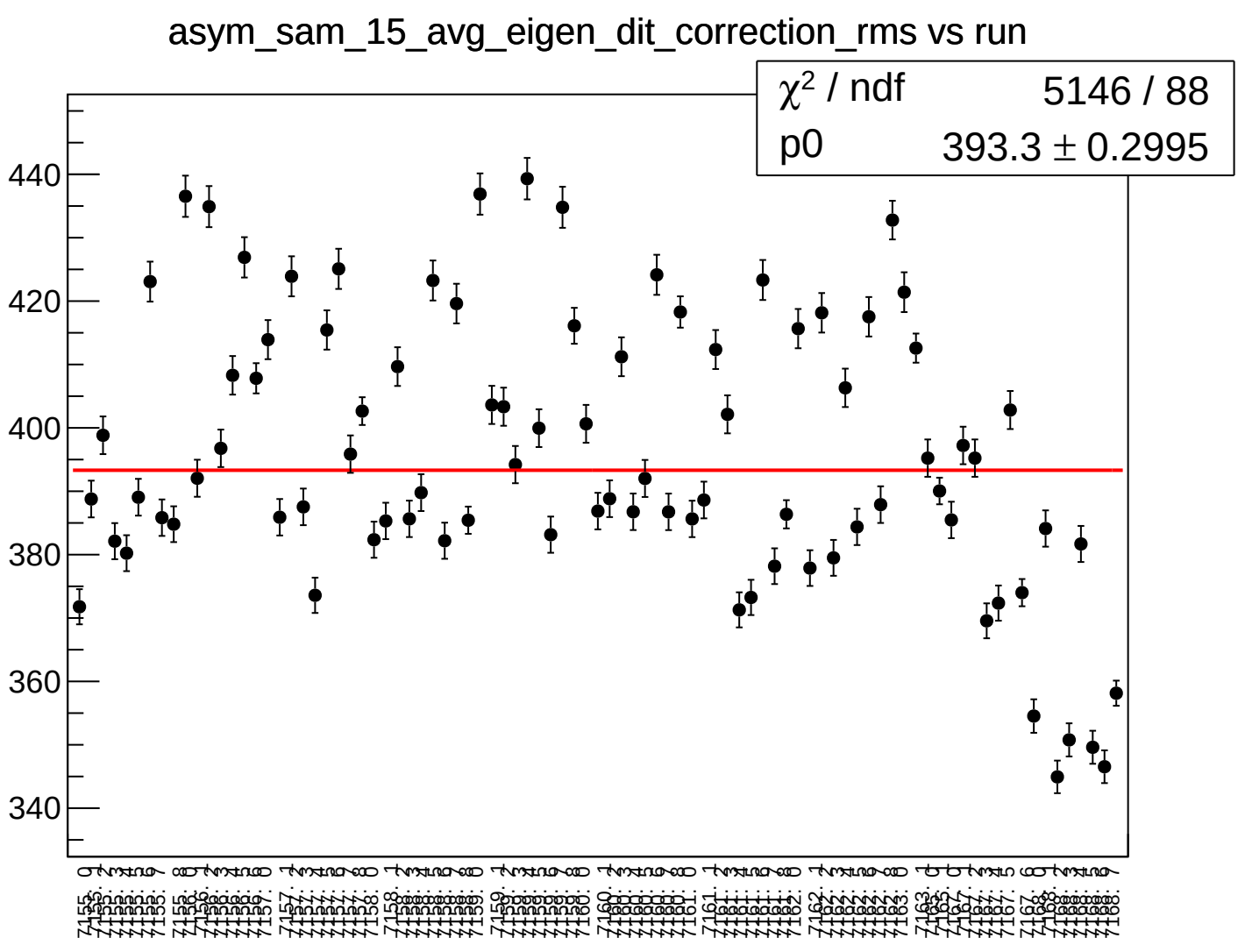

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 5146 / 88
p0 393.3 ± 0.2995
440
420
400
380
360
340

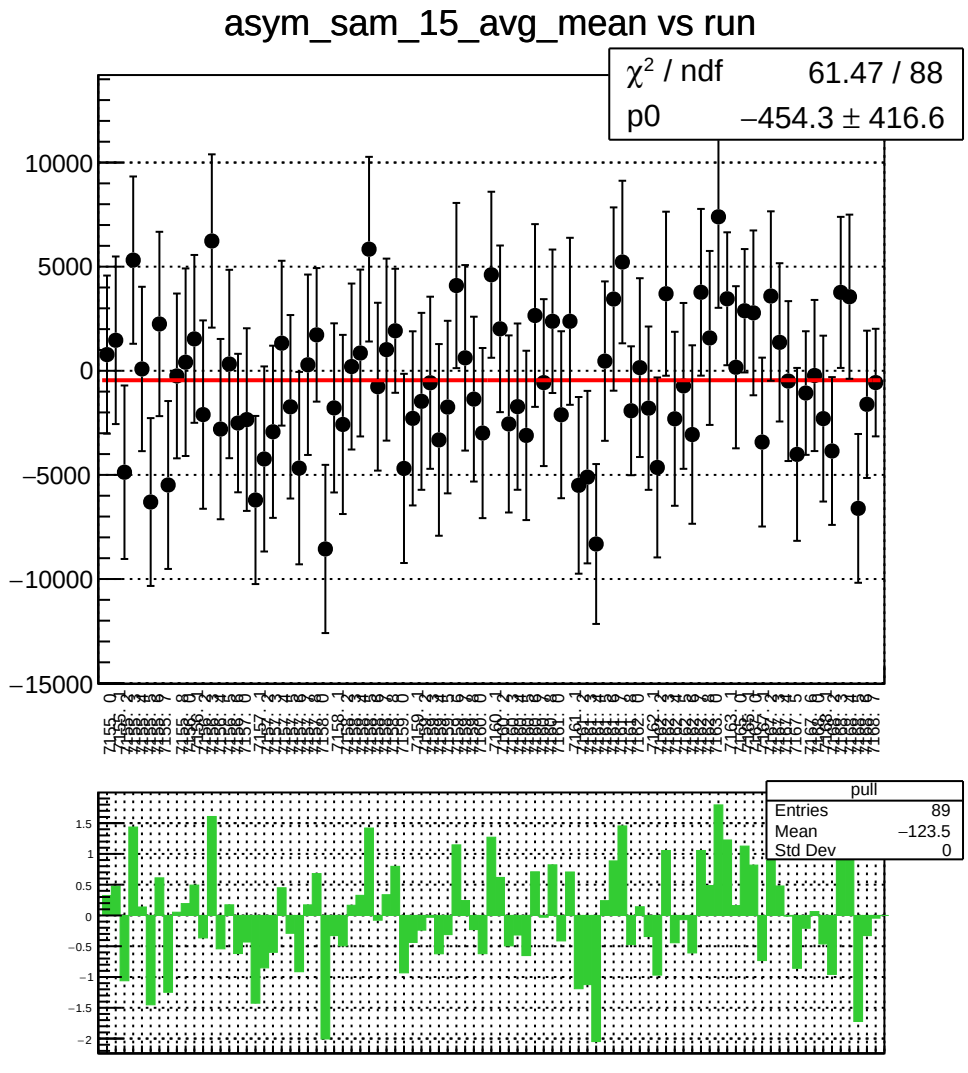

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 101.8 / 88
p0 −136.2 ± 72.43
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −103.3
Std Dev 0
3
2
1
0
−1
−2
−3

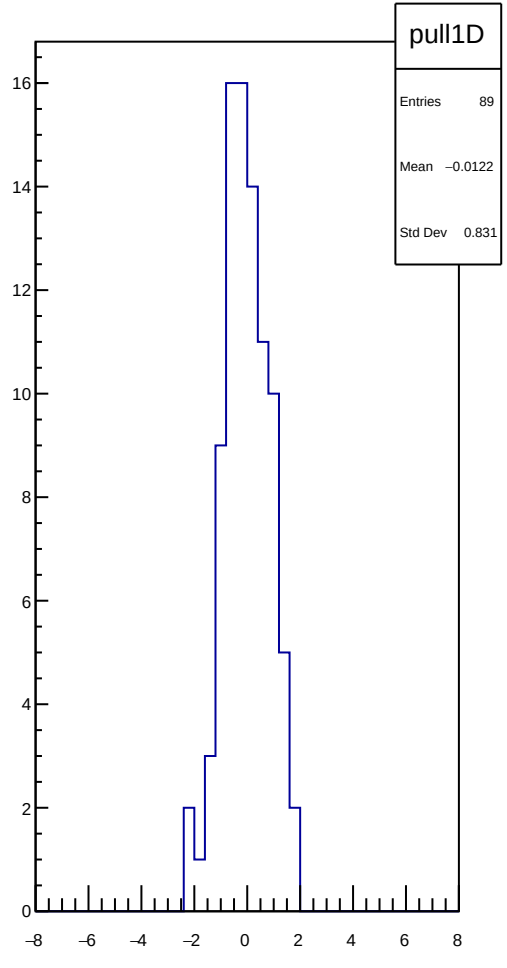

pull1D
Entries 89
Mean 0.01137
Std Dev 1.07
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

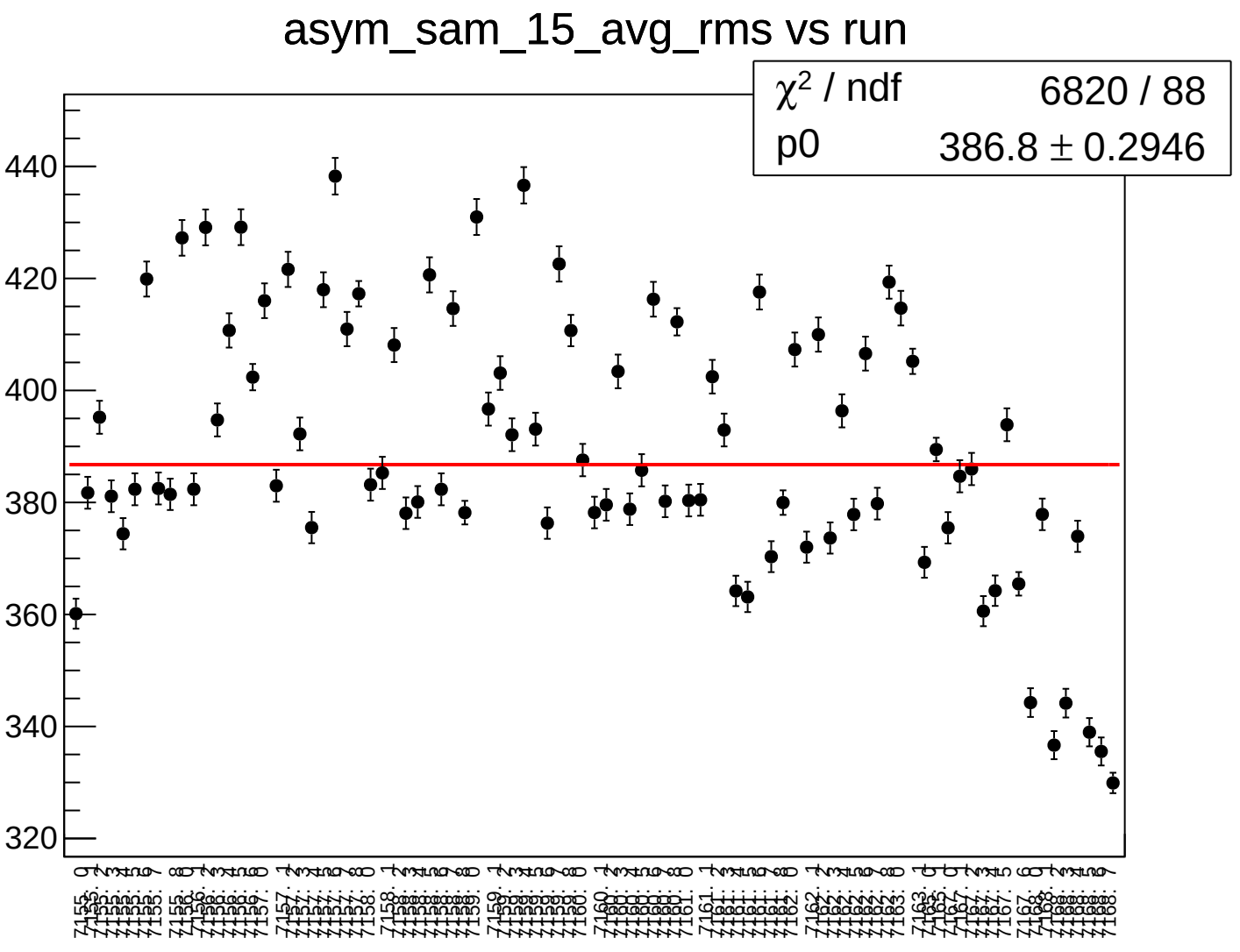

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 7248 / 88
p0 67.22 ± 0.05121
90
85
80
75
70
65

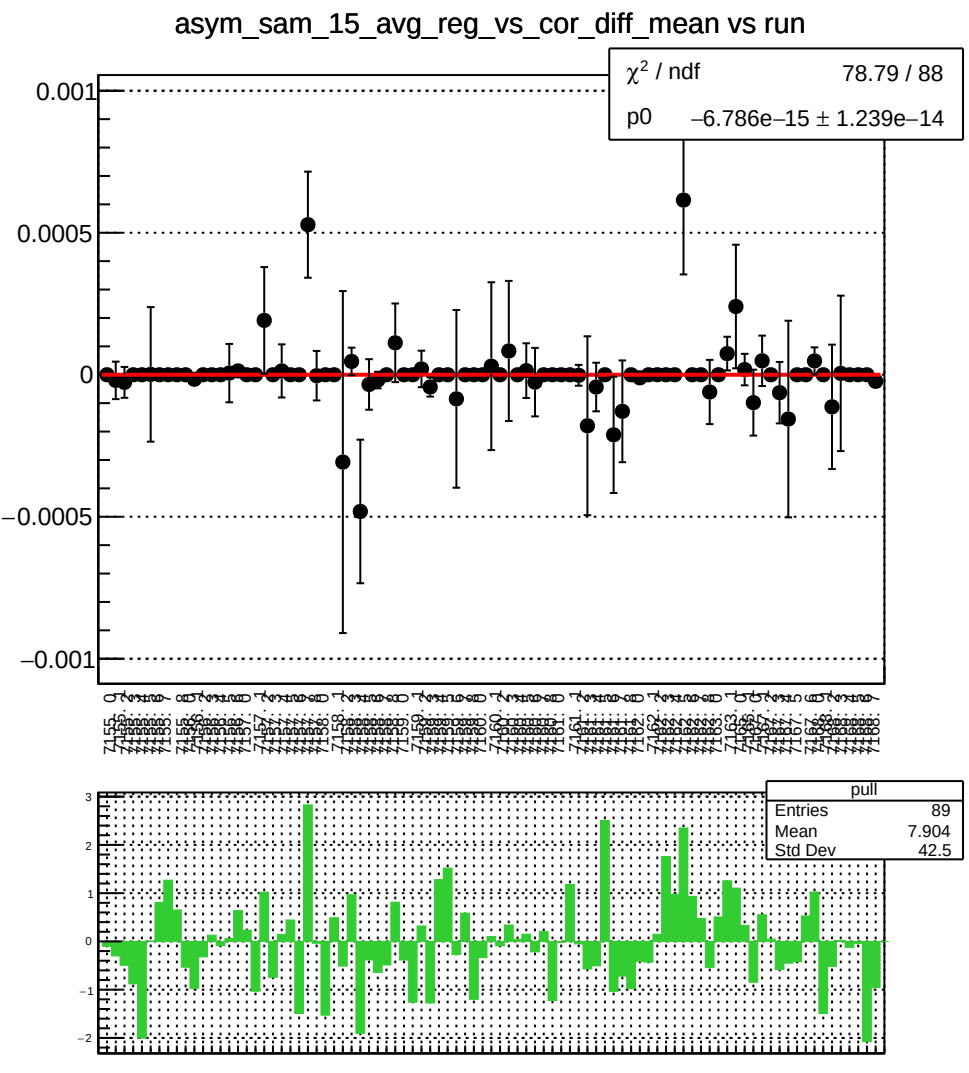

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 59.21 / 88
p0 312.7 ± 423.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −116.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01506
Std Dev 0.8155
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

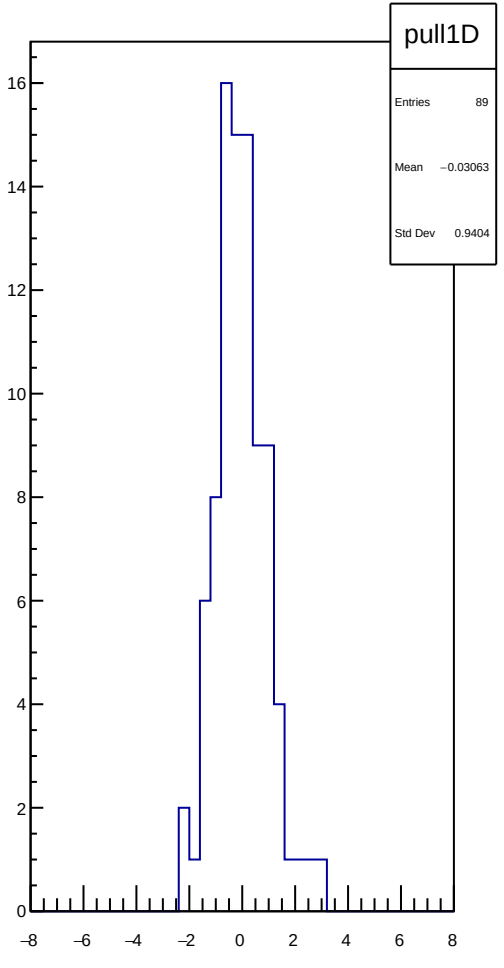

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 5146 / 88
p0 393.3 ± 0.2995
440
420
400
380
360
340

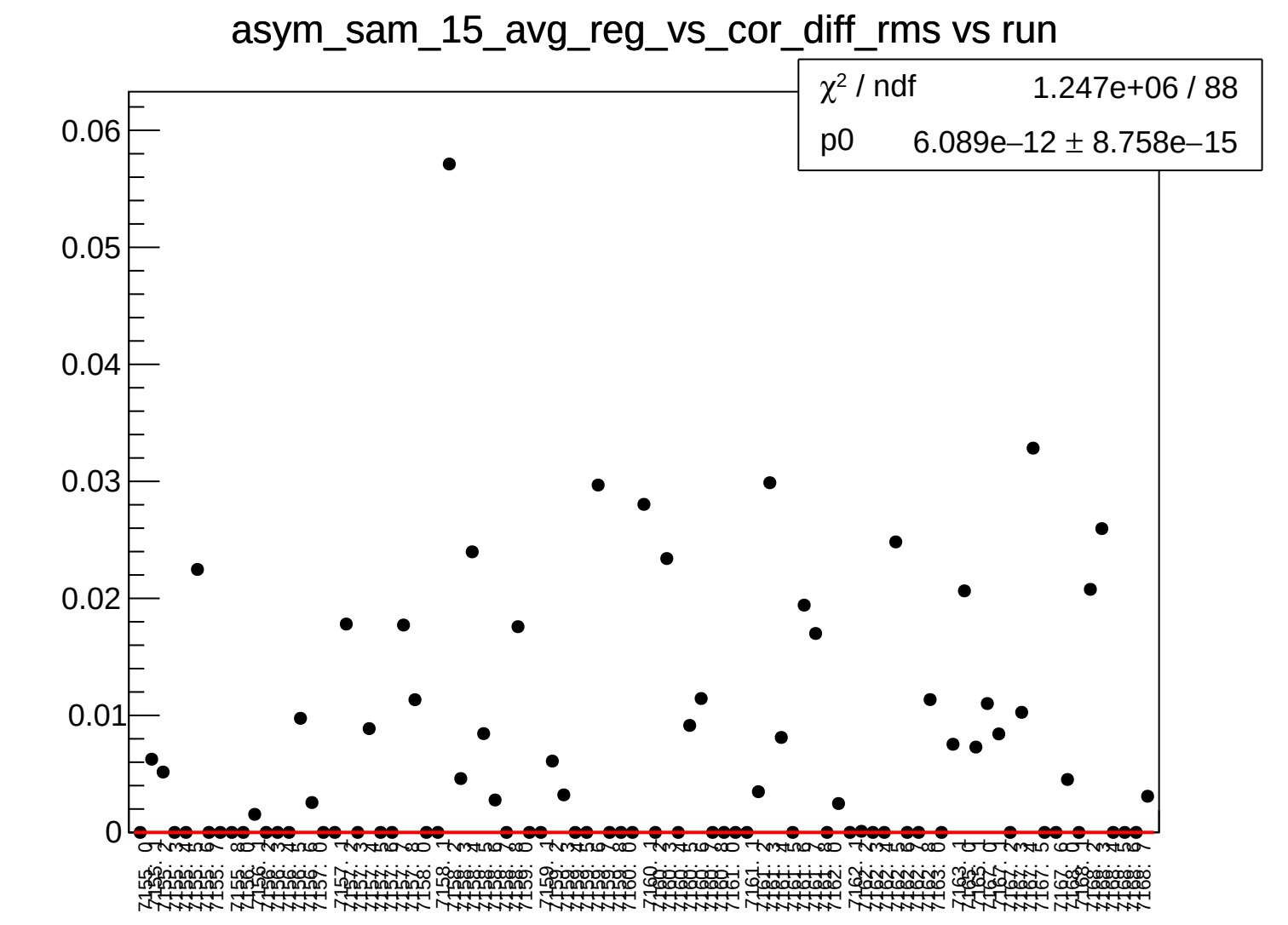

asym_sam_15_avg_mean vs run
χ² / ndf 61.47 / 88
p0 −454.3 ± 416.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −123.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

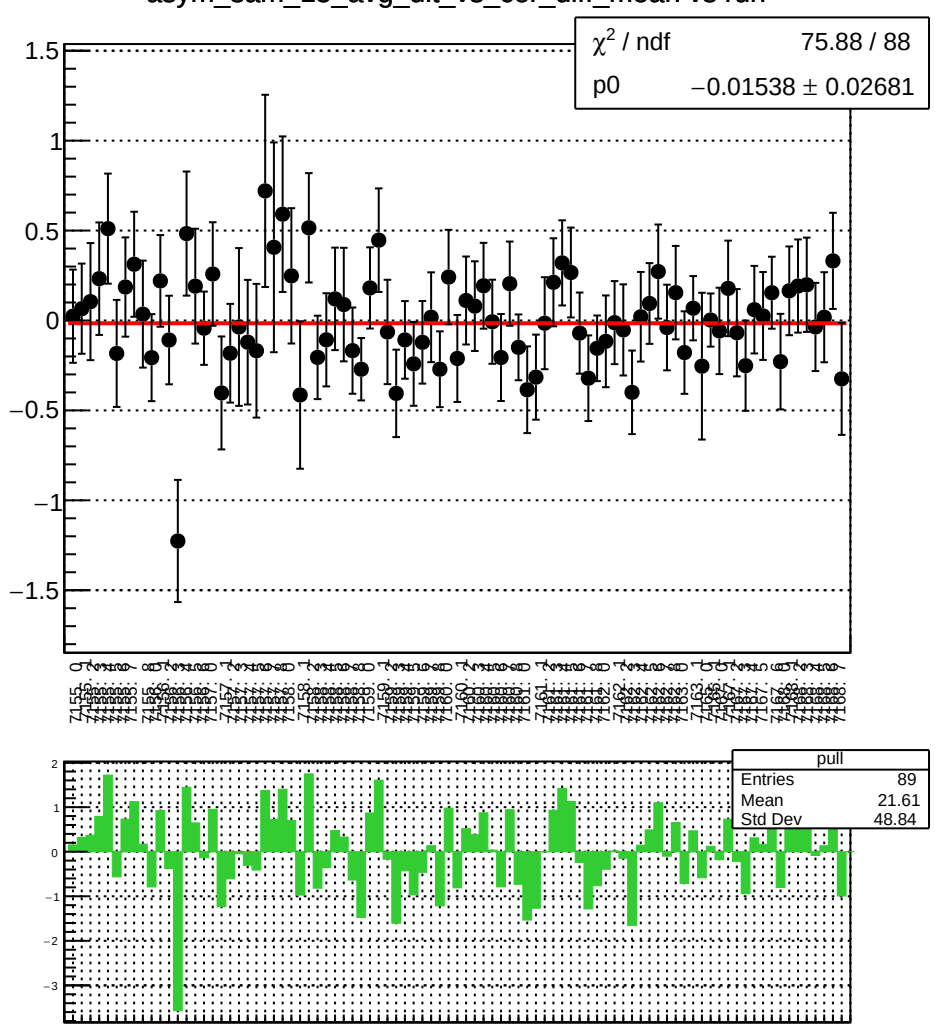

pull1D
Entries 89
Mean −0.0122
Std Dev 0.831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

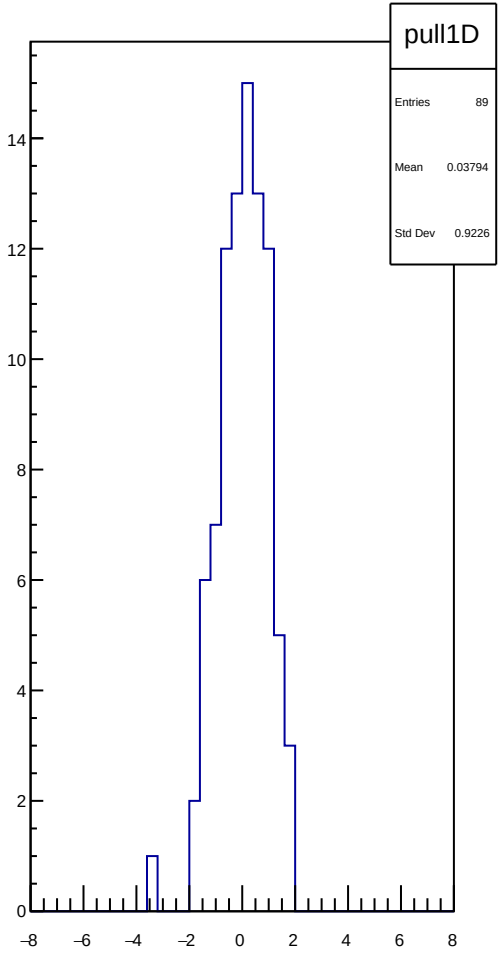

asym_sam_15_avg_rms vs run
χ² / ndf 6820 / 88
p0 386.8 ± 0.2946
440
420
400
380
360
340
320

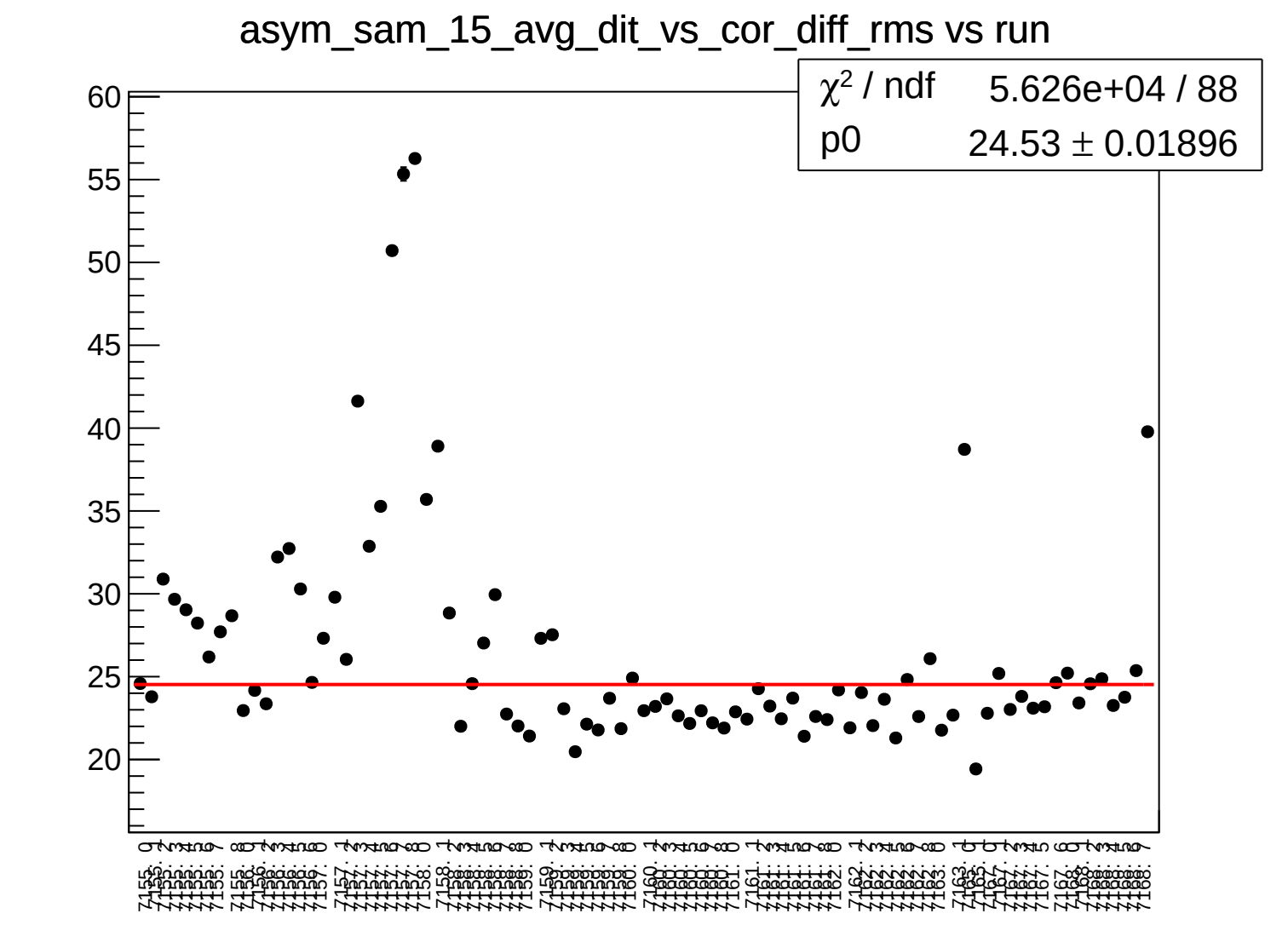

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 88
p0 −6.786e−15 ± 1.239e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 7.904
Std Dev 42.5
3
2
1
0
−1
−2

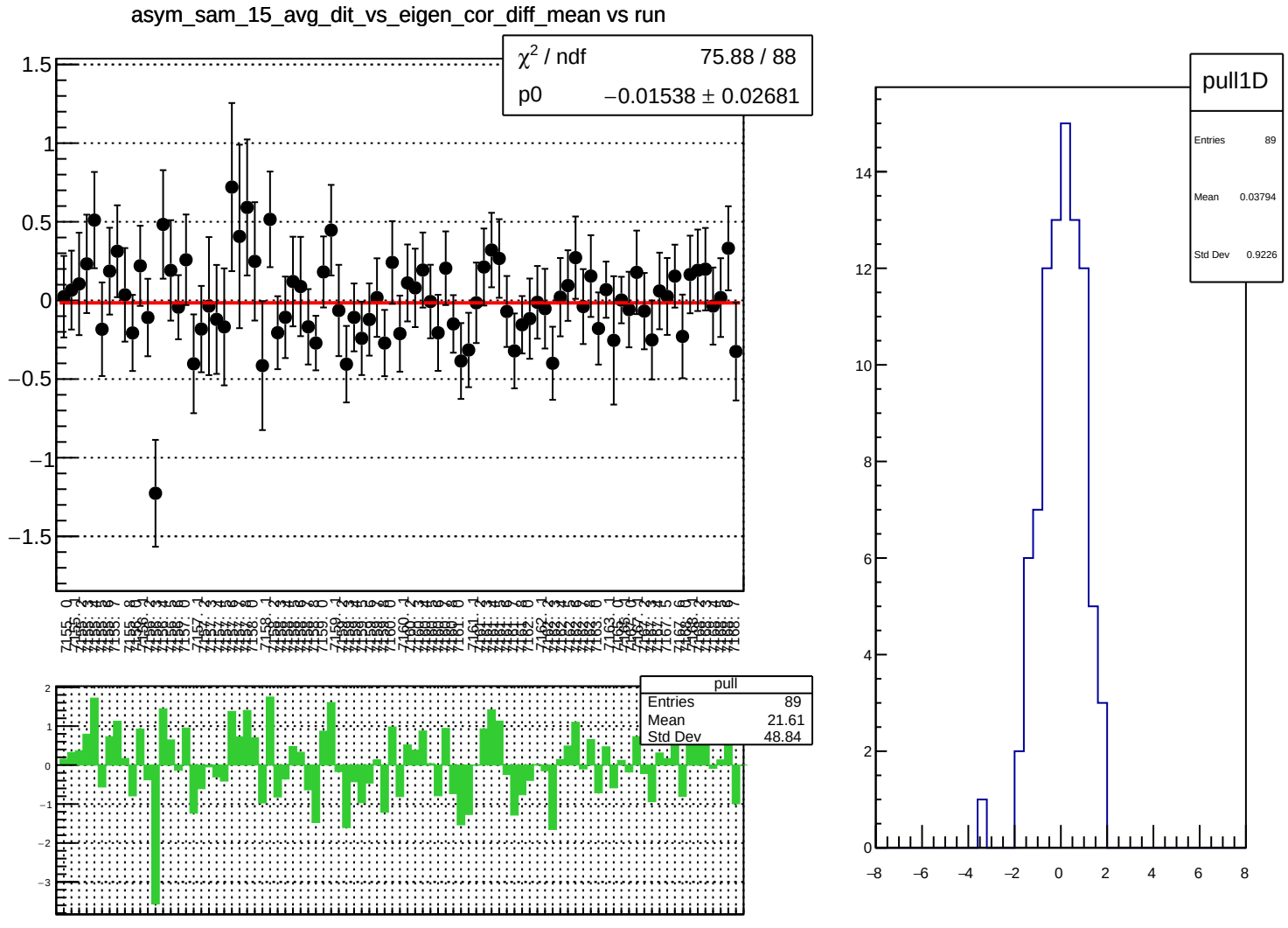

pull1D
Entries 89
Mean −0.03063
Std Dev 0.9404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

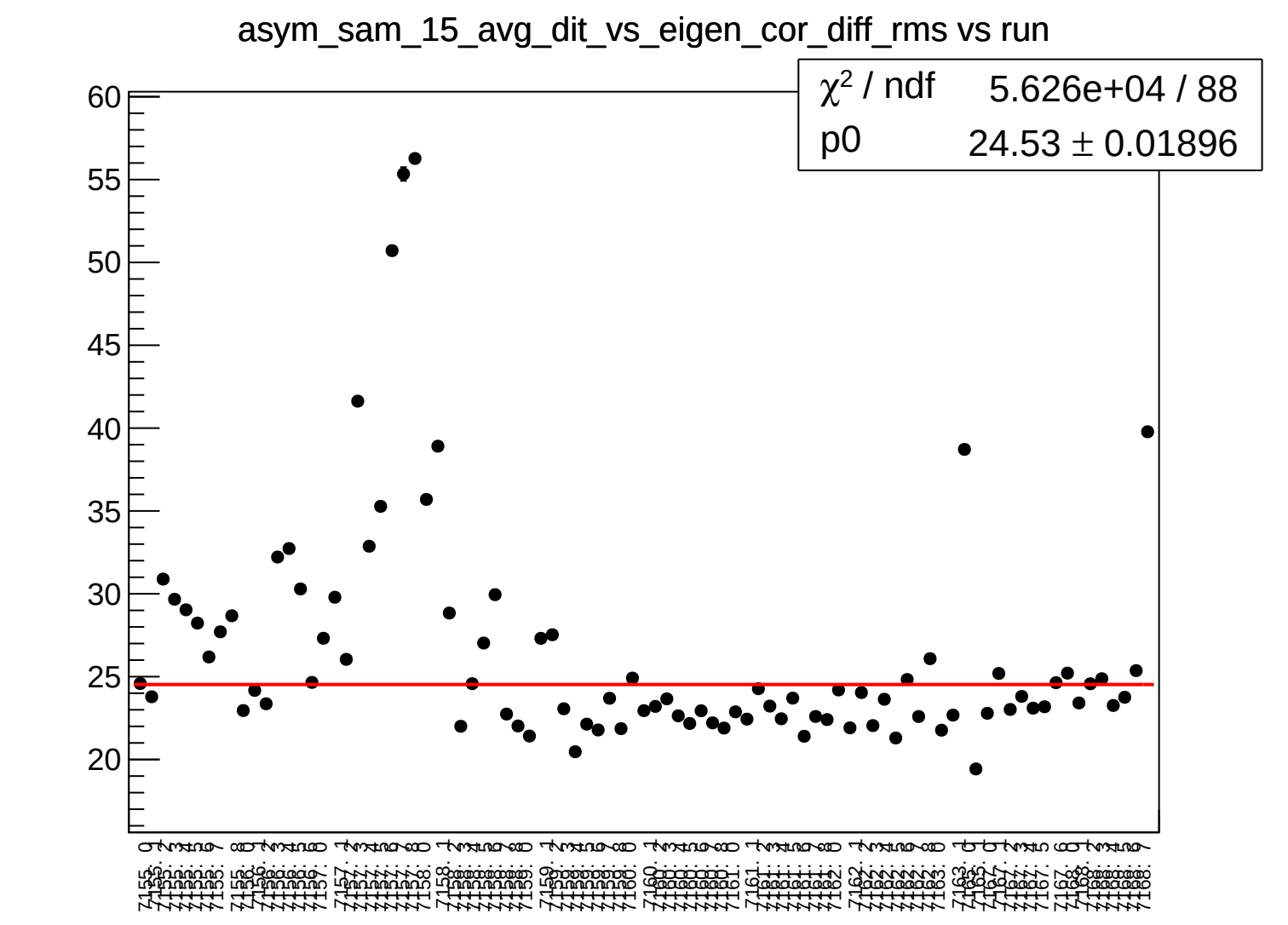

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.247e+06 / 88
p0 6.089e−12 ± 8.758e−15
0.06
0.05
0.04
0.03
0.02
0.01
0

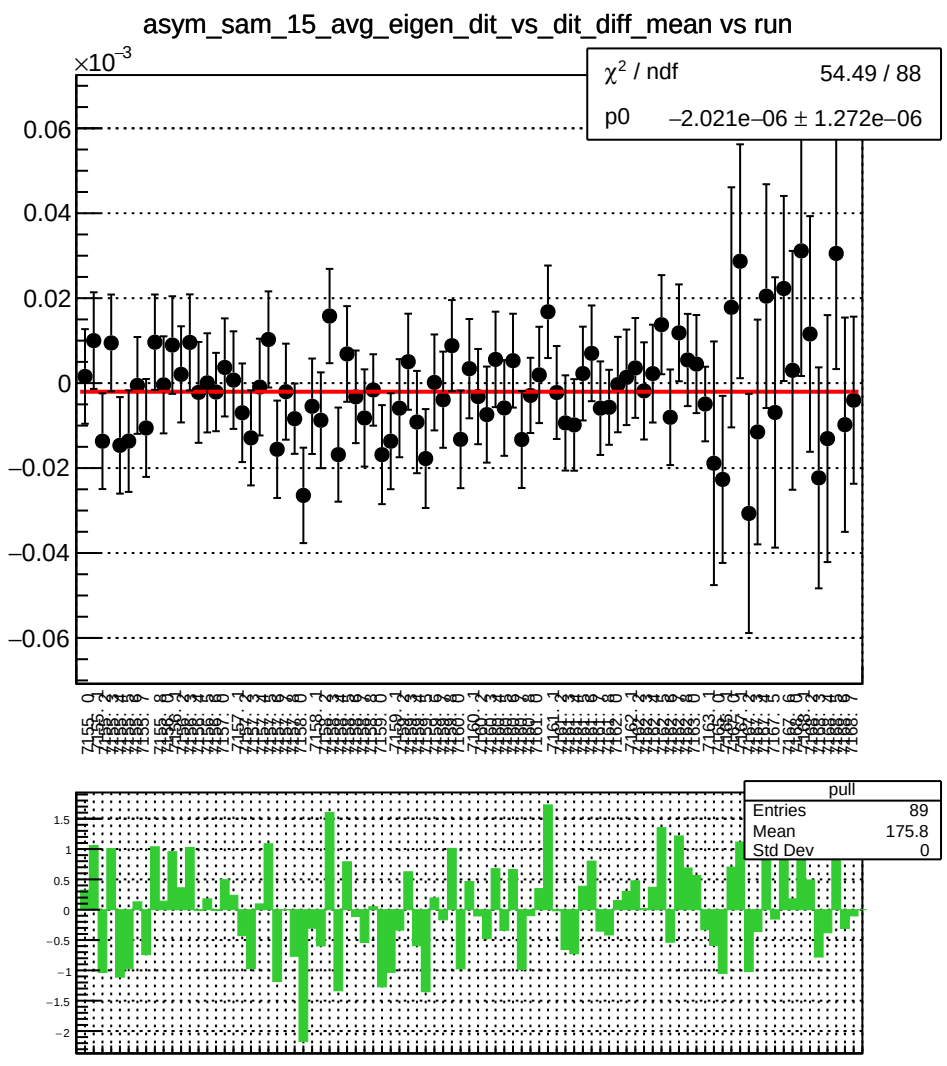

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.01538 ± 0.02681
pull
Entries 89
Mean 21.61
Std Dev 48.84

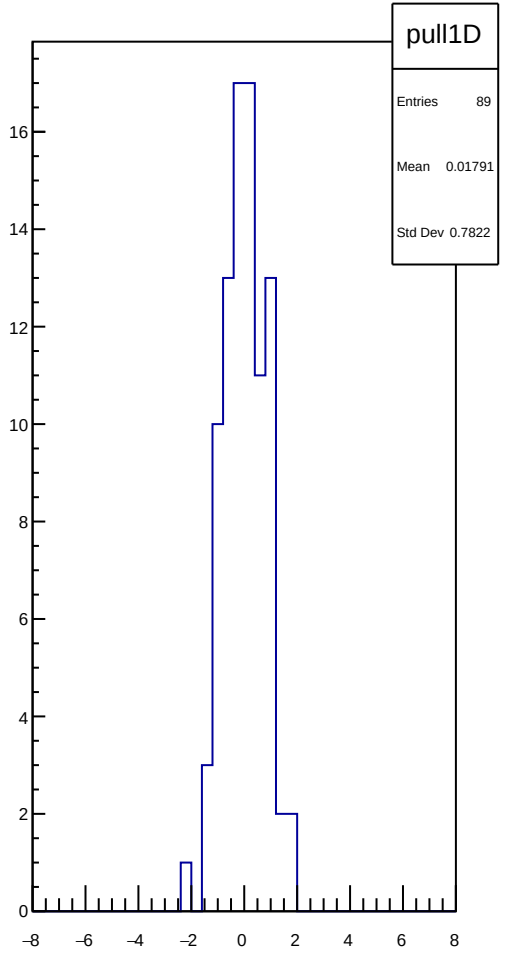

pull1D
Entries 89
Mean 0.03794
Std Dev 0.9226

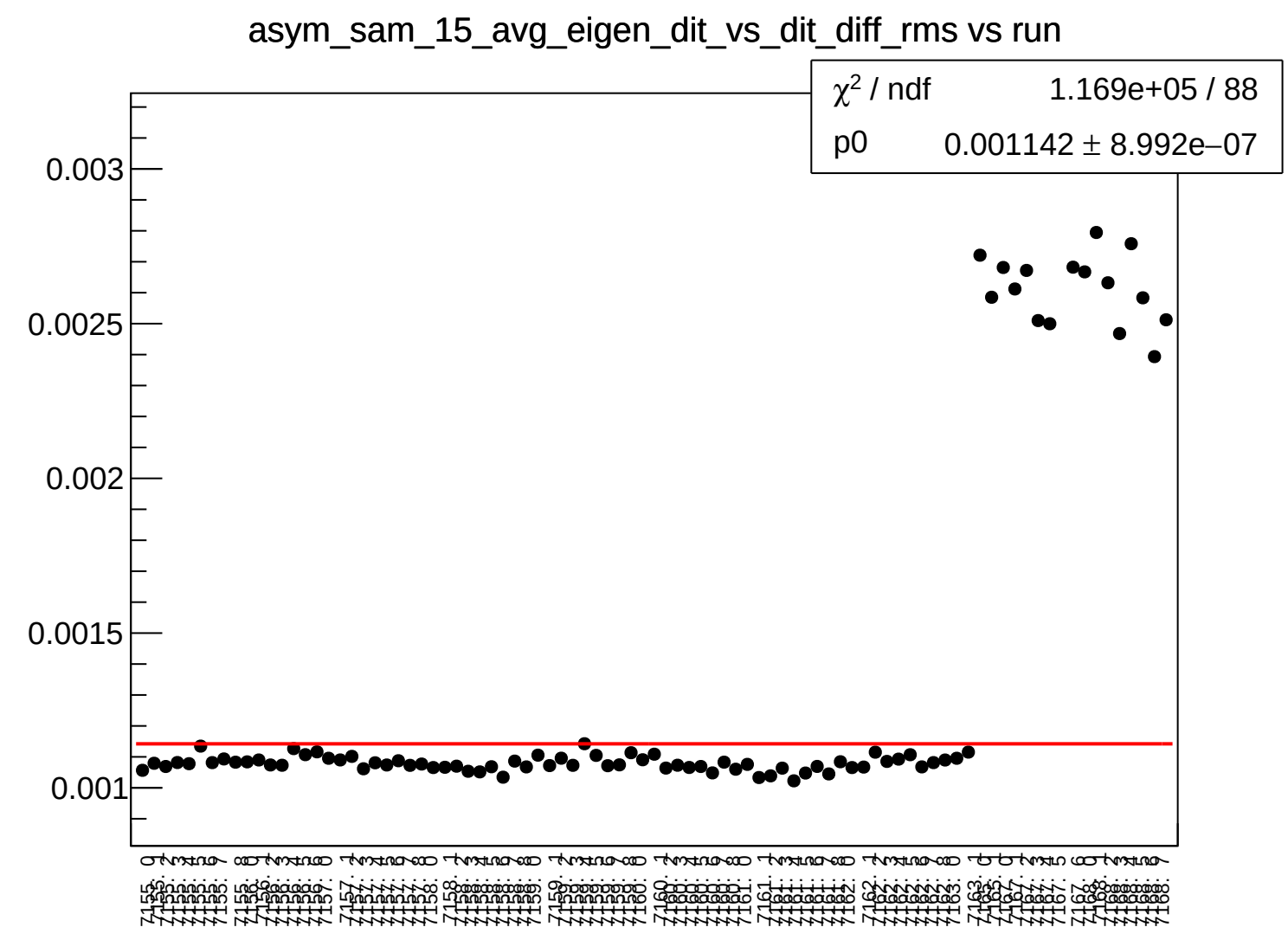

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 88
p0 24.53 ± 0.01896
60
55
50
45
40
35
30
25
20

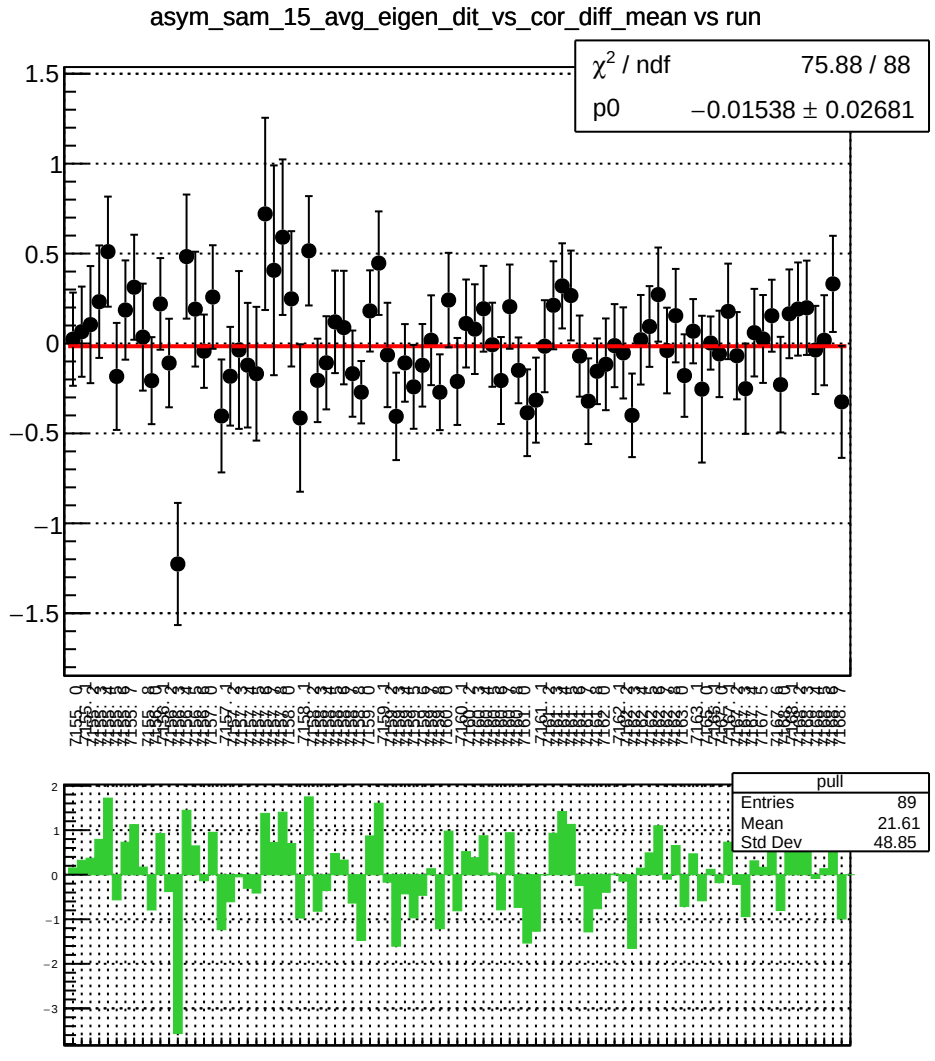

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.01538 ± 0.02681
pull
Entries 89
Mean 21.61
Std Dev 48.84
pull1D
Entries 89
Mean 0.03794
Std Dev 0.9226

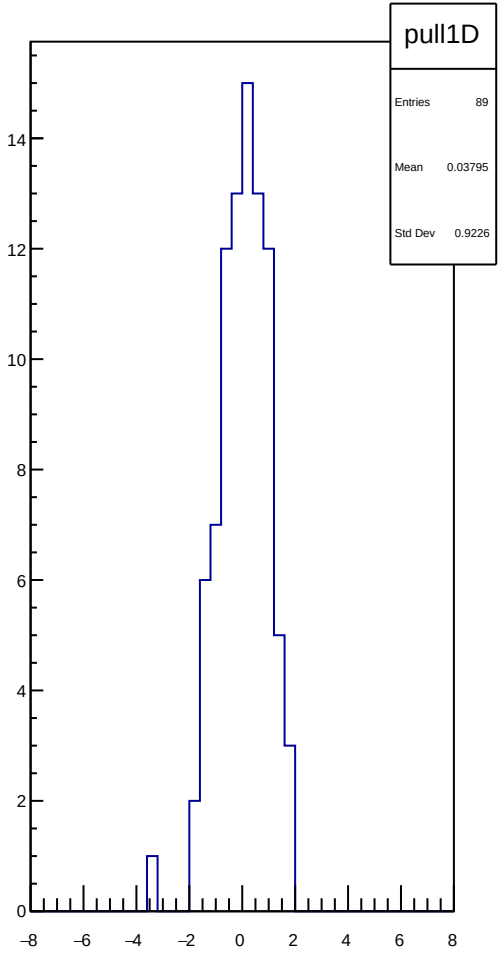

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 88
p0 24.53 ± 0.01896
60
55
50
45
40
35
30
25
20

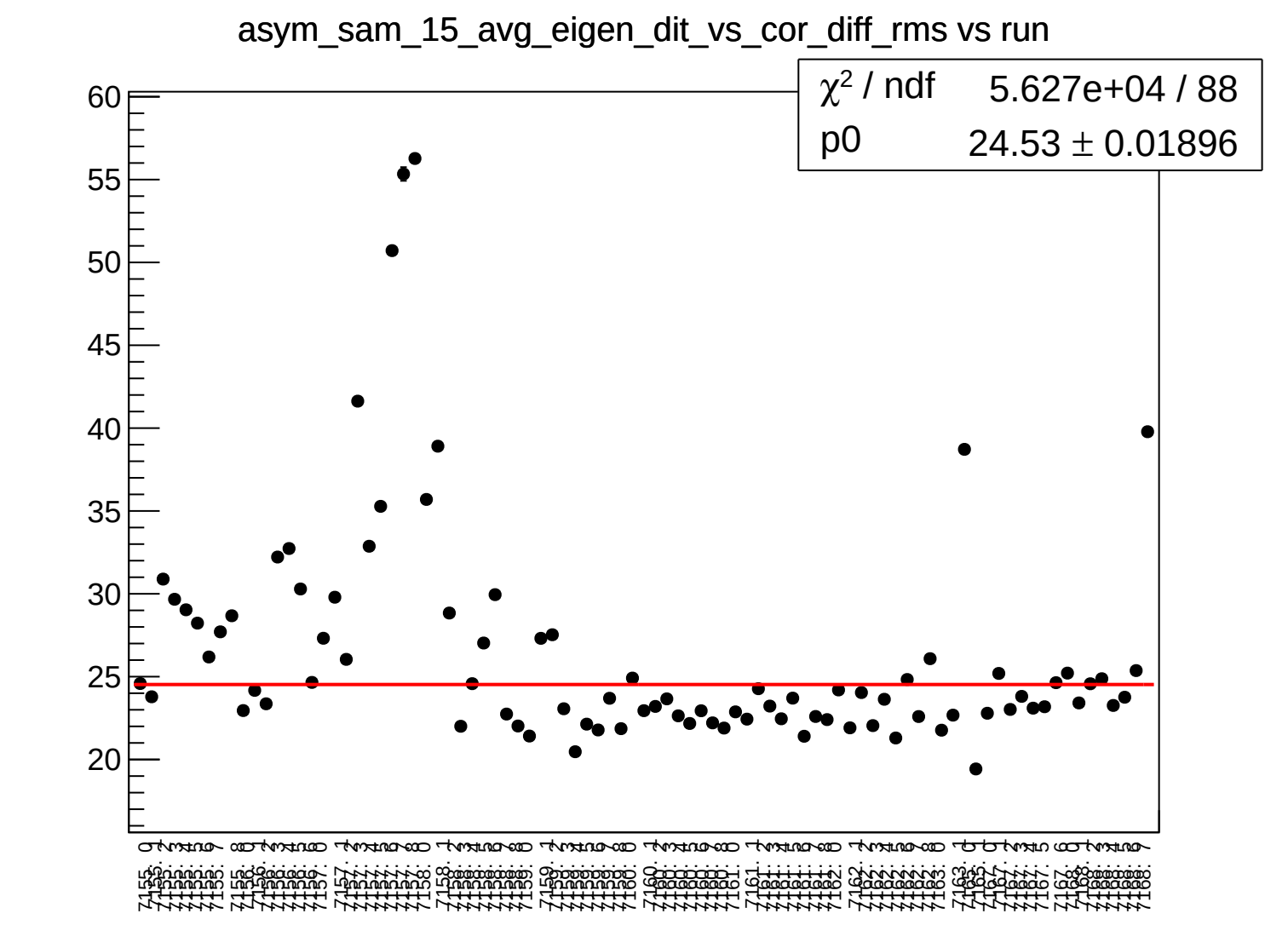

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 54.49 / 88
p0 −2.021e−06 ± 1.272e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 175.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

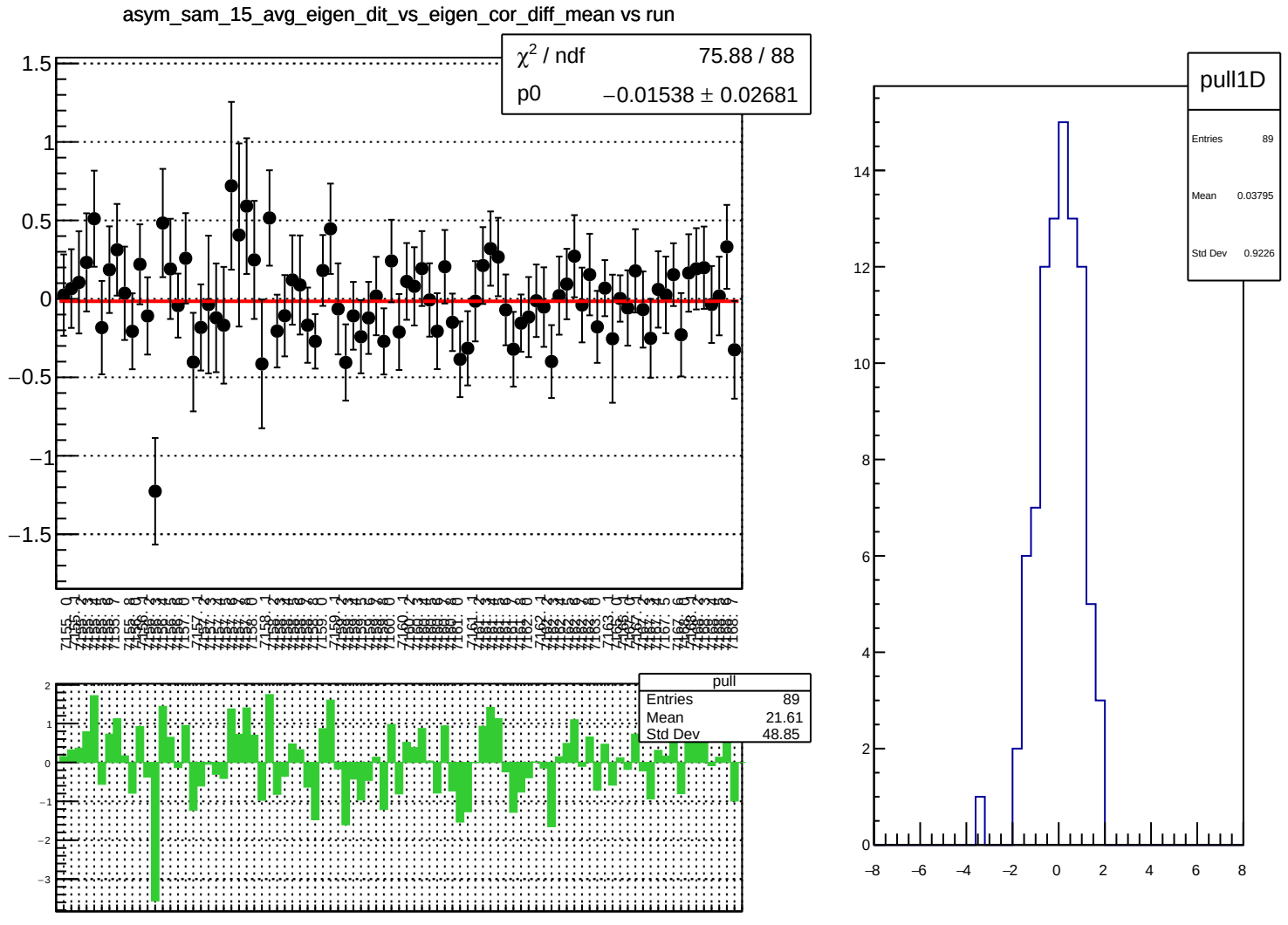

pull1D
Entries 89
Mean 0.01791
Std Dev 0.7822
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

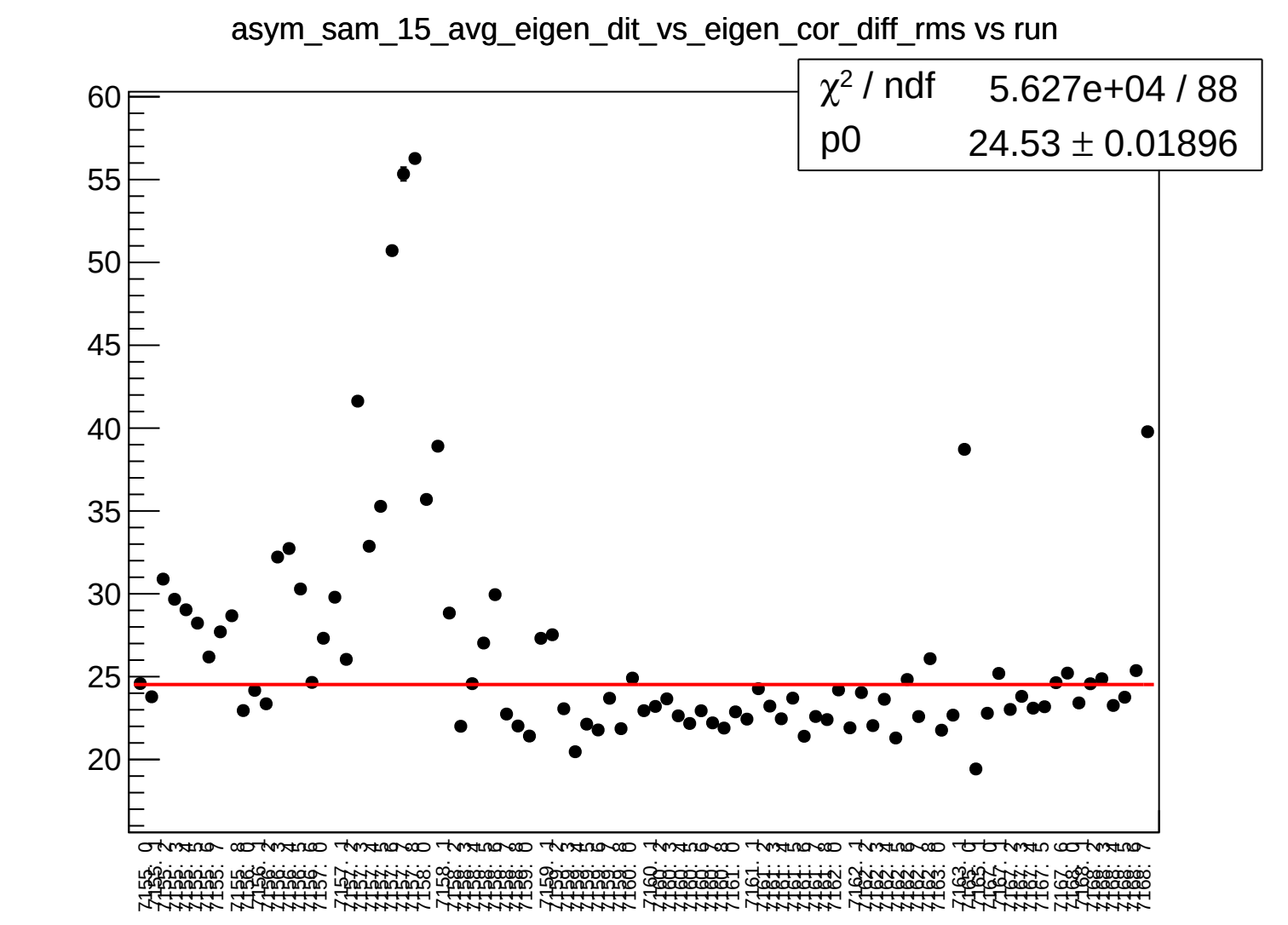

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.169e+05 / 88
p0 0.001142 ± 8.992e−07
0.003
0.0025
0.002
0.0015
0.001

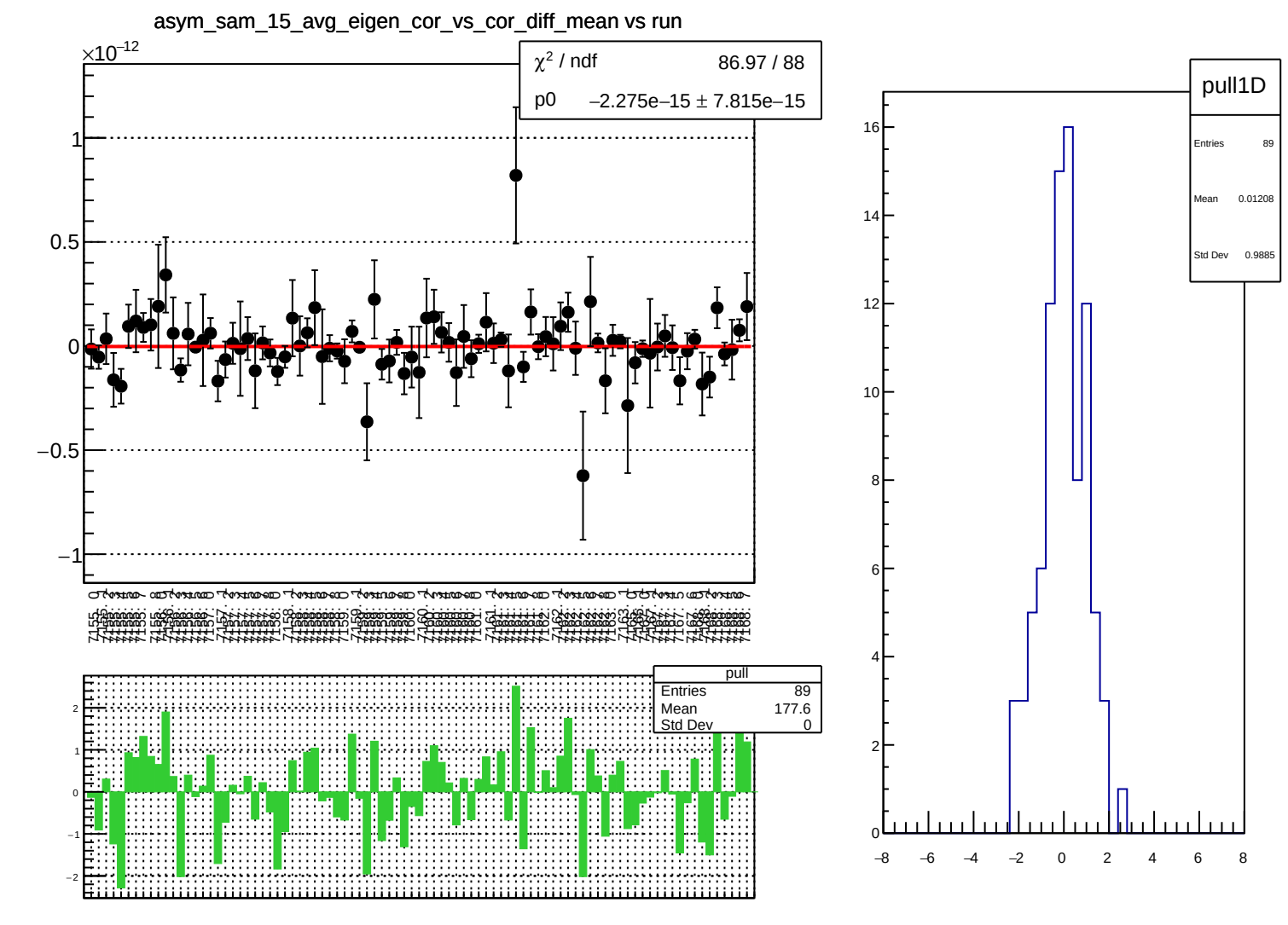

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.01538 ± 0.02681
pull
Entries 89
Mean 21.61
Std Dev 48.85

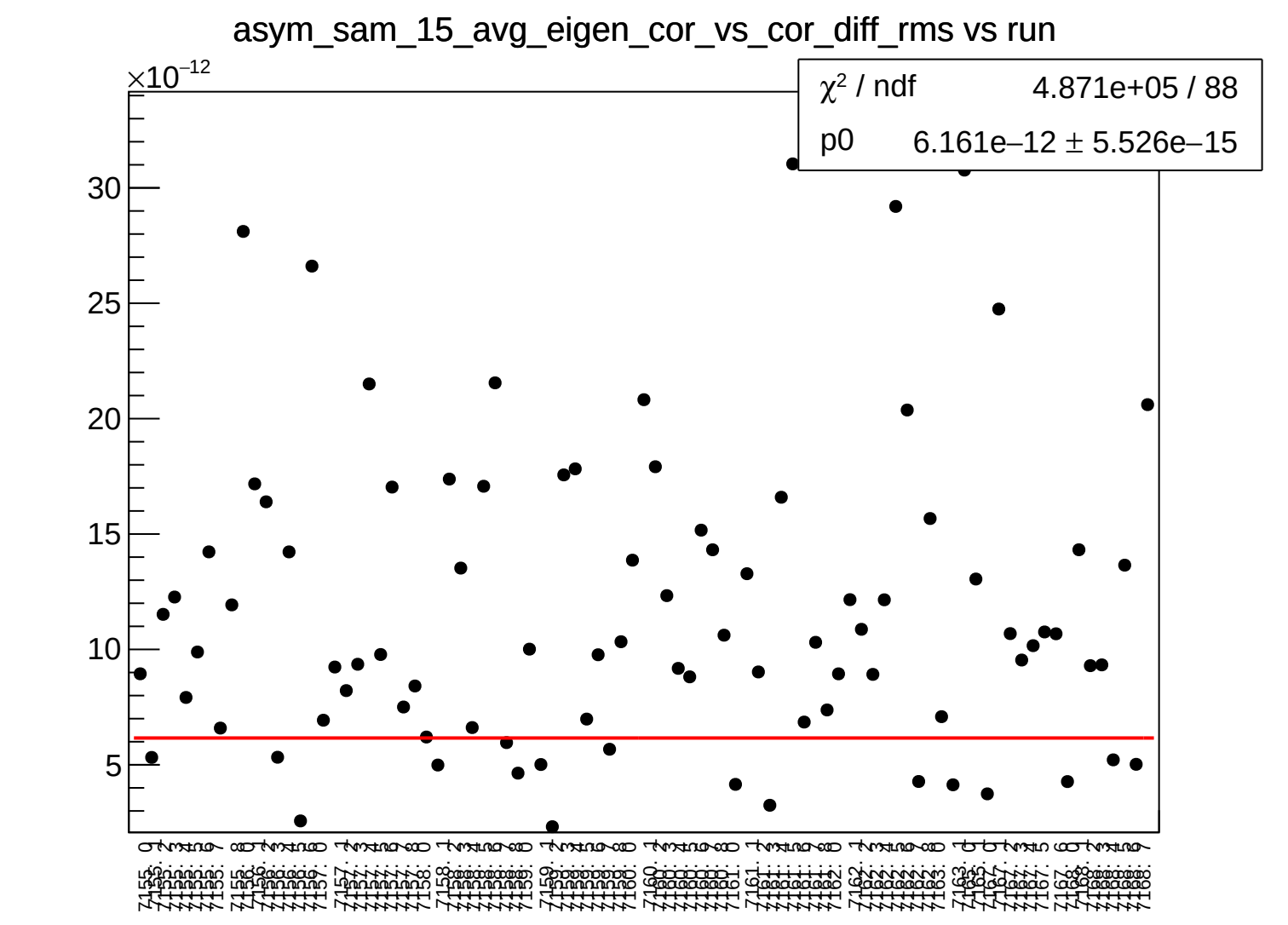

pull1D
Entries 89
Mean 0.03795
Std Dev 0.9226

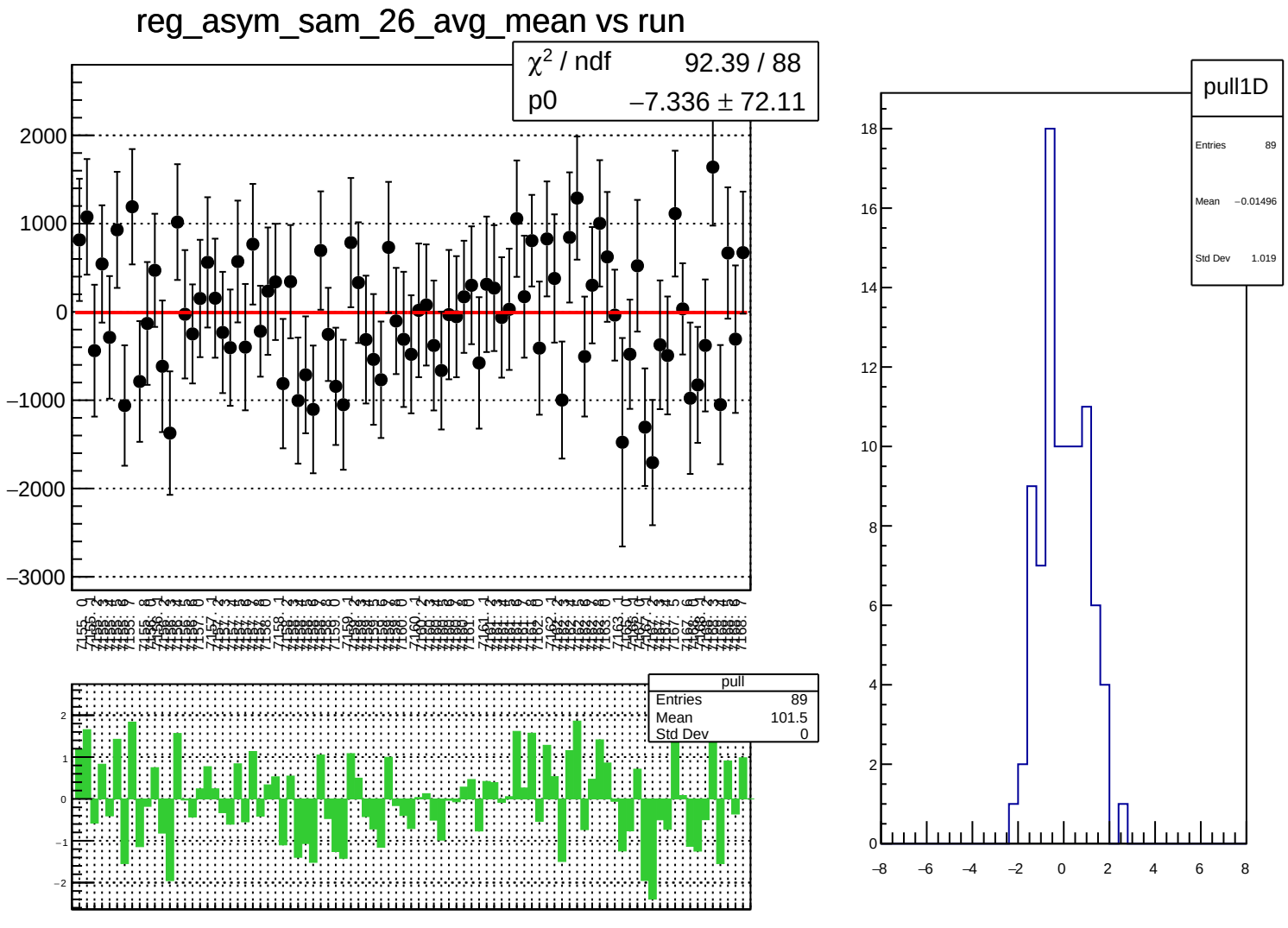

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.627e+04 / 88
p0 24.53 ± 0.01896
60
55
50
45
40
35
30
25
20

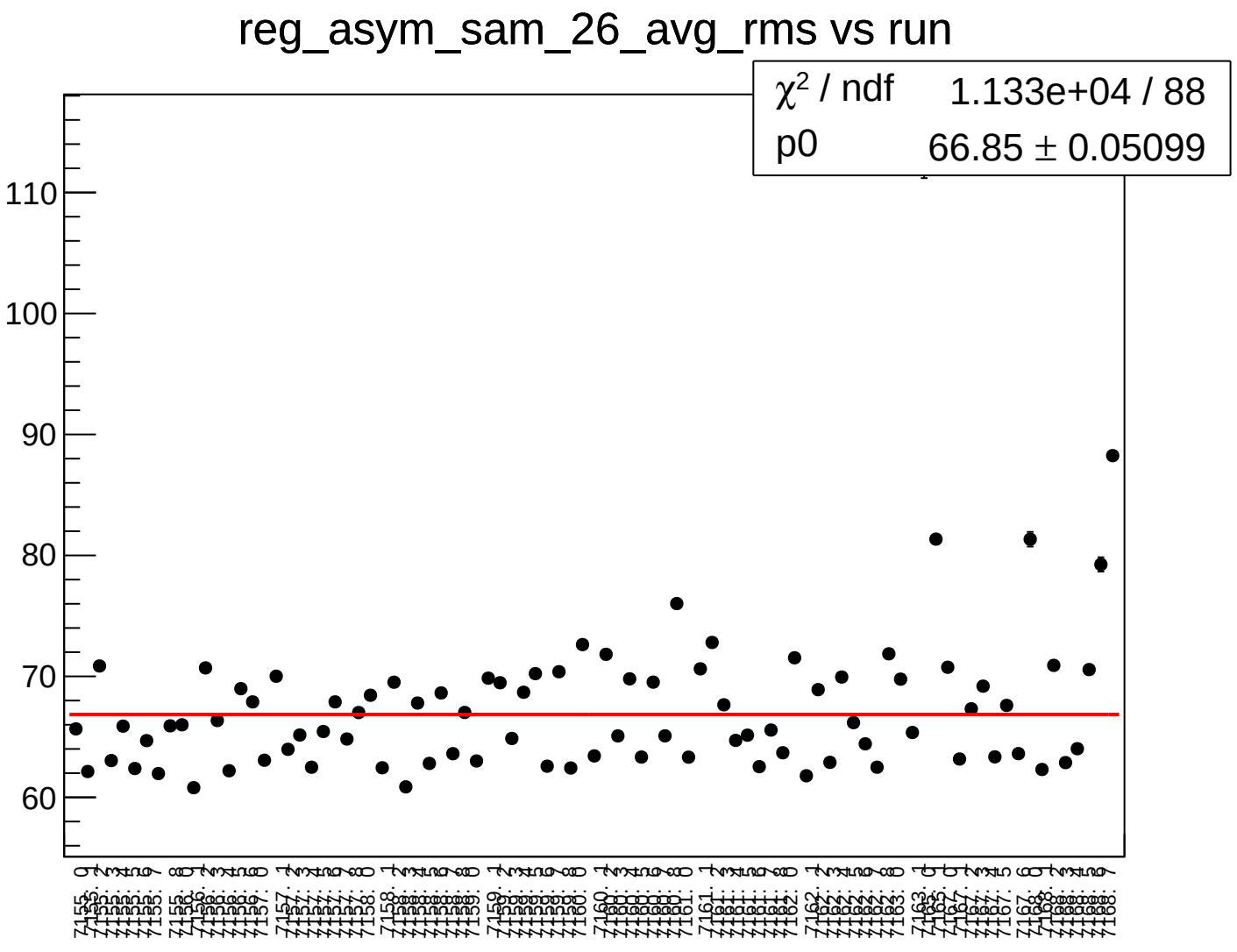

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.88 / 88
p0 −0.01538 ± 0.02681
pull
Entries 89
Mean 21.61
Std Dev 48.85
pull1D
Entries 89
Mean 0.03795
Std Dev 0.9226

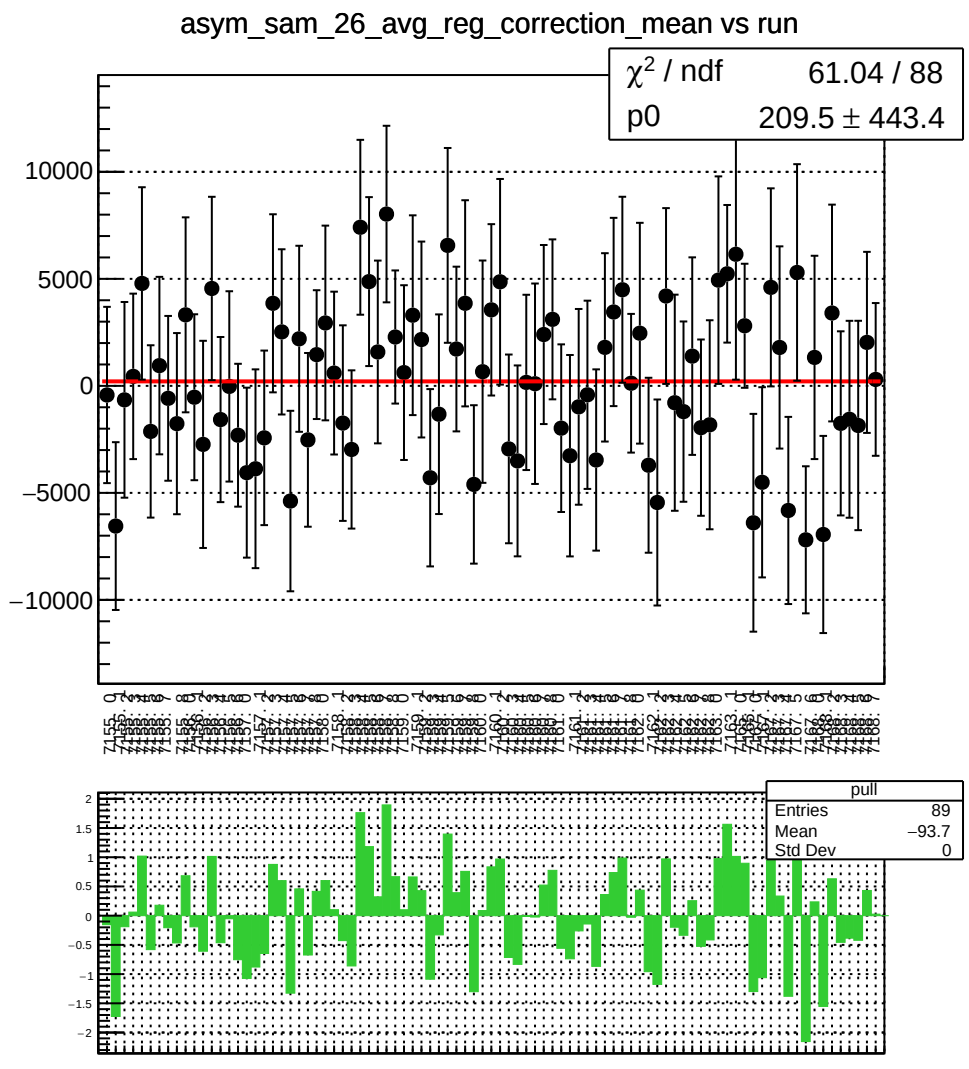

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.627e+04 / 88
p0 24.53 ± 0.01896
60
55
50
45
40
35
30
25
20

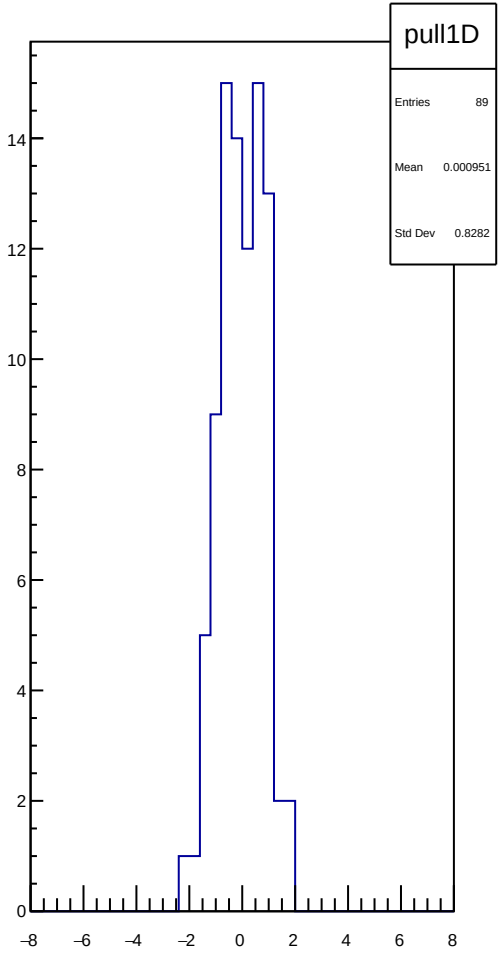

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.97 / 88
p0 −2.275e−15 ± 7.815e−15
pull
Entries 89
Mean 177.6
Std Dev 0
pull1D
Entries 89
Mean 0.01208
Std Dev 0.9885

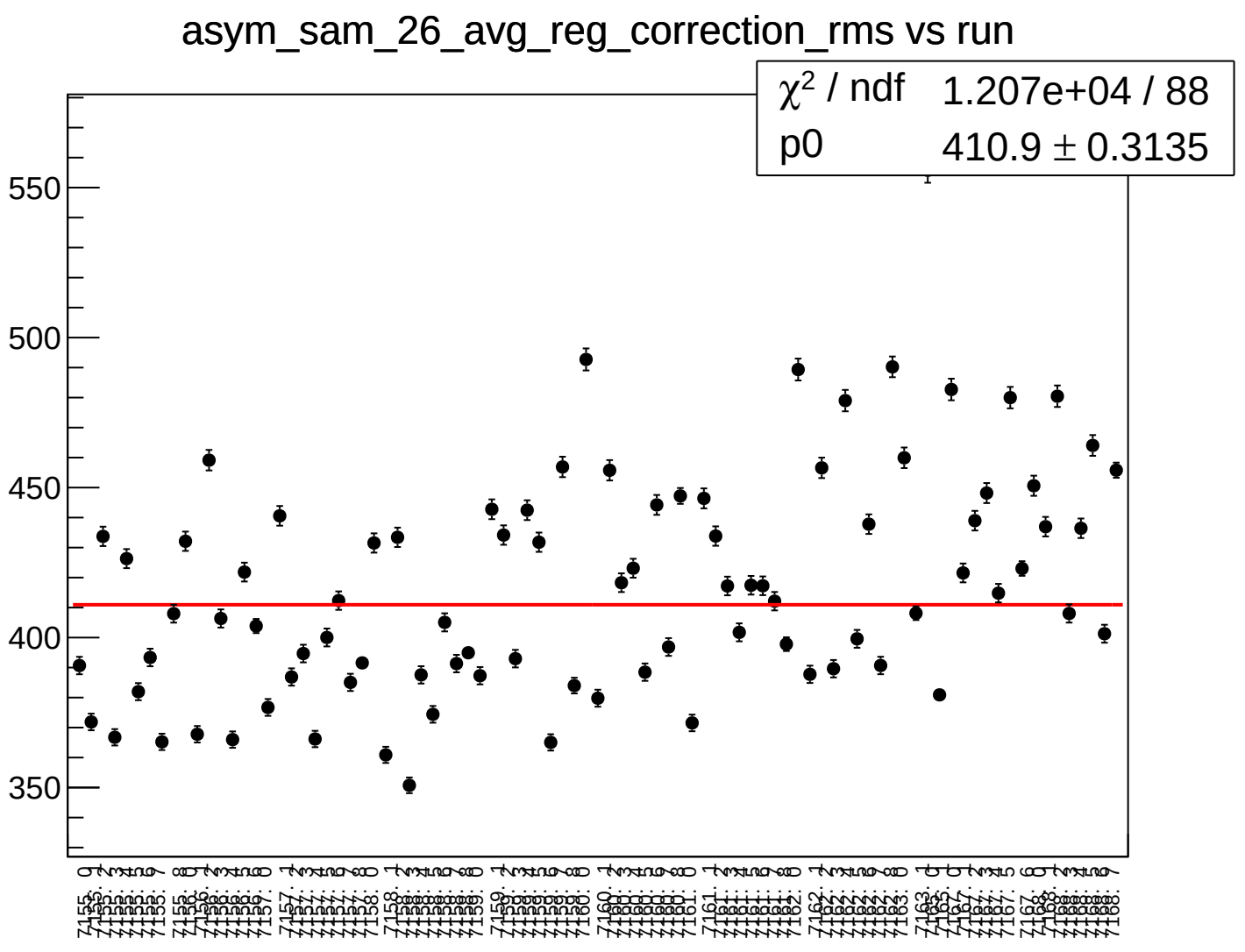

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.871e+05 / 88
p0 6.161e−12 ± 5.526e−15
30
25
20
15
10
5

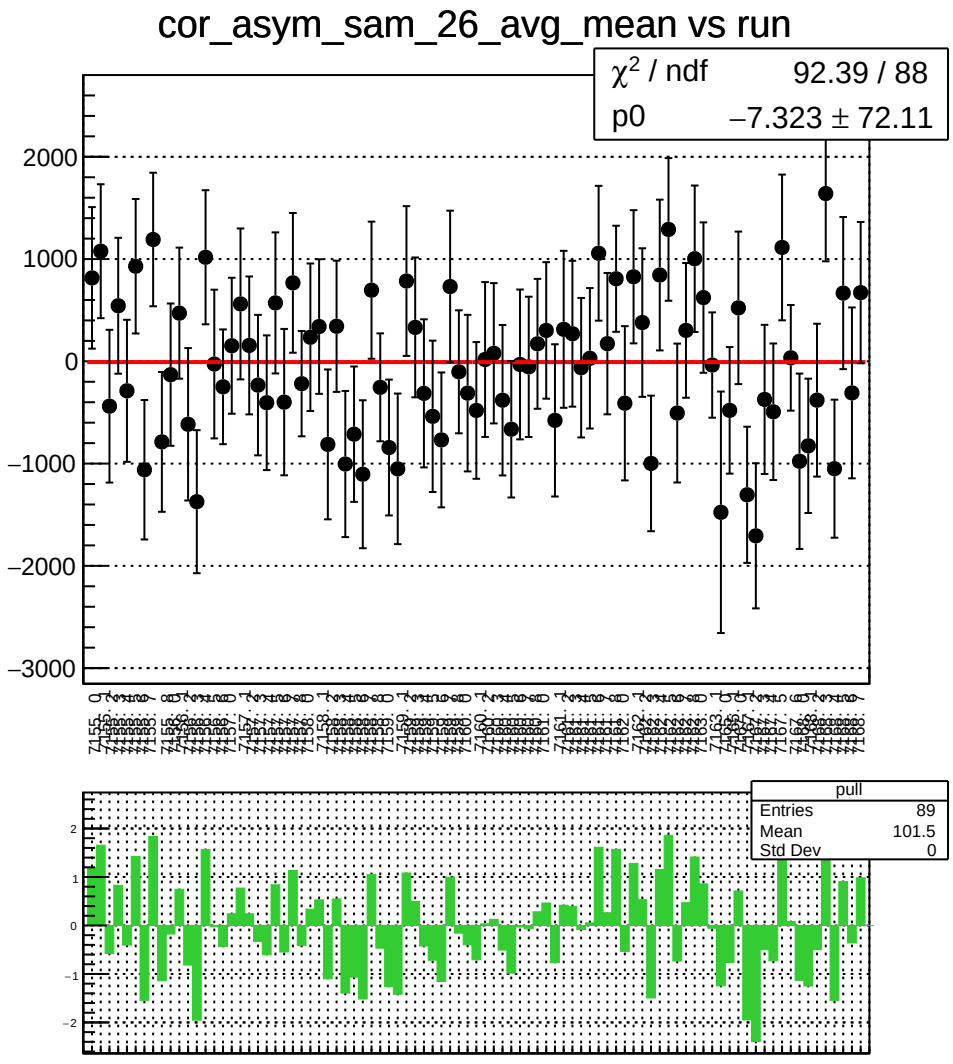

reg_asym_sam_26_avg_mean vs run
χ² / ndf 92.39 / 88
p0 −7.336 ± 72.11
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 101.5
Std Dev 0
pull1D
Entries 89
Mean −0.01496
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

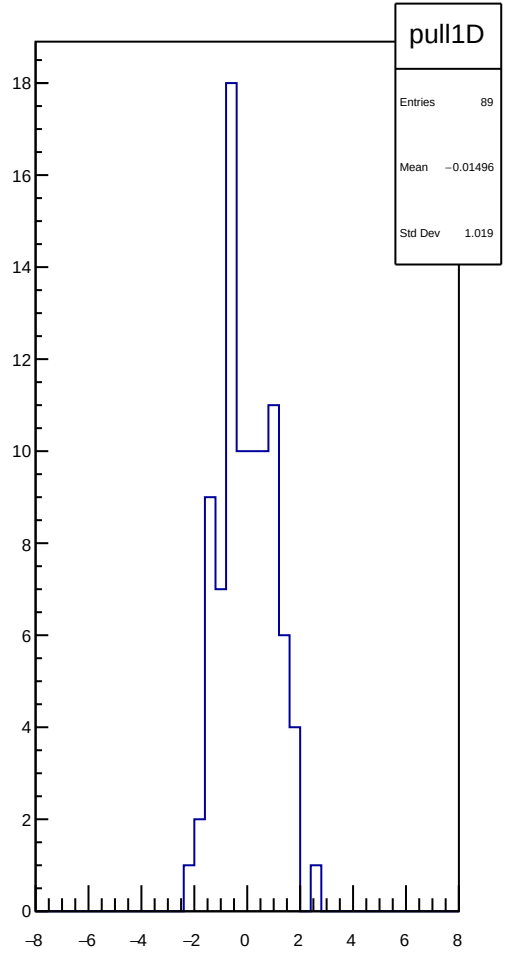

reg_asym_sam_26_avg_rms vs run
χ² / ndf 1.133e+04 / 88
p0 66.85 ± 0.05099
110
100
90
80
70
60

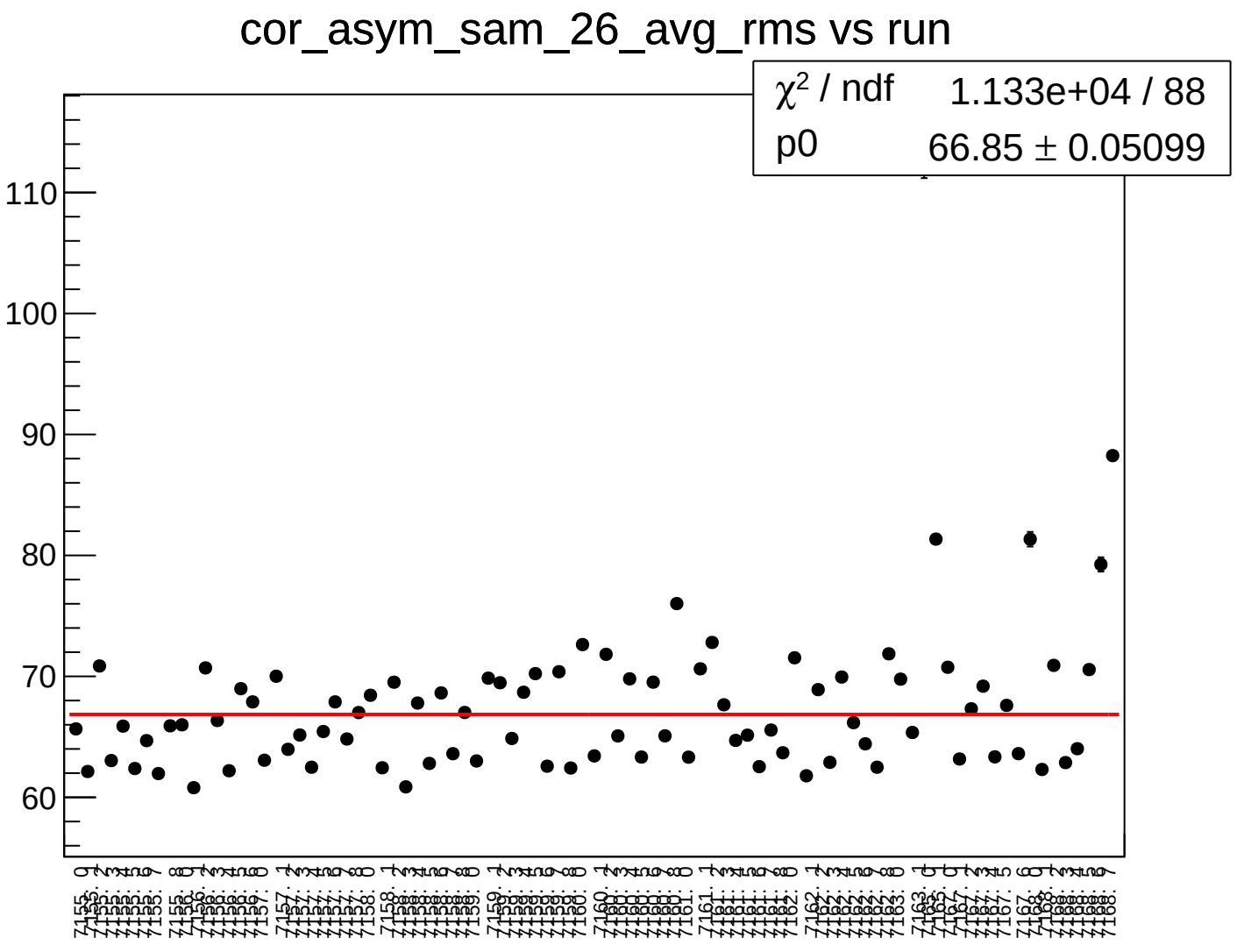

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 61.04 / 88
p0 209.5 ± 443.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −93.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

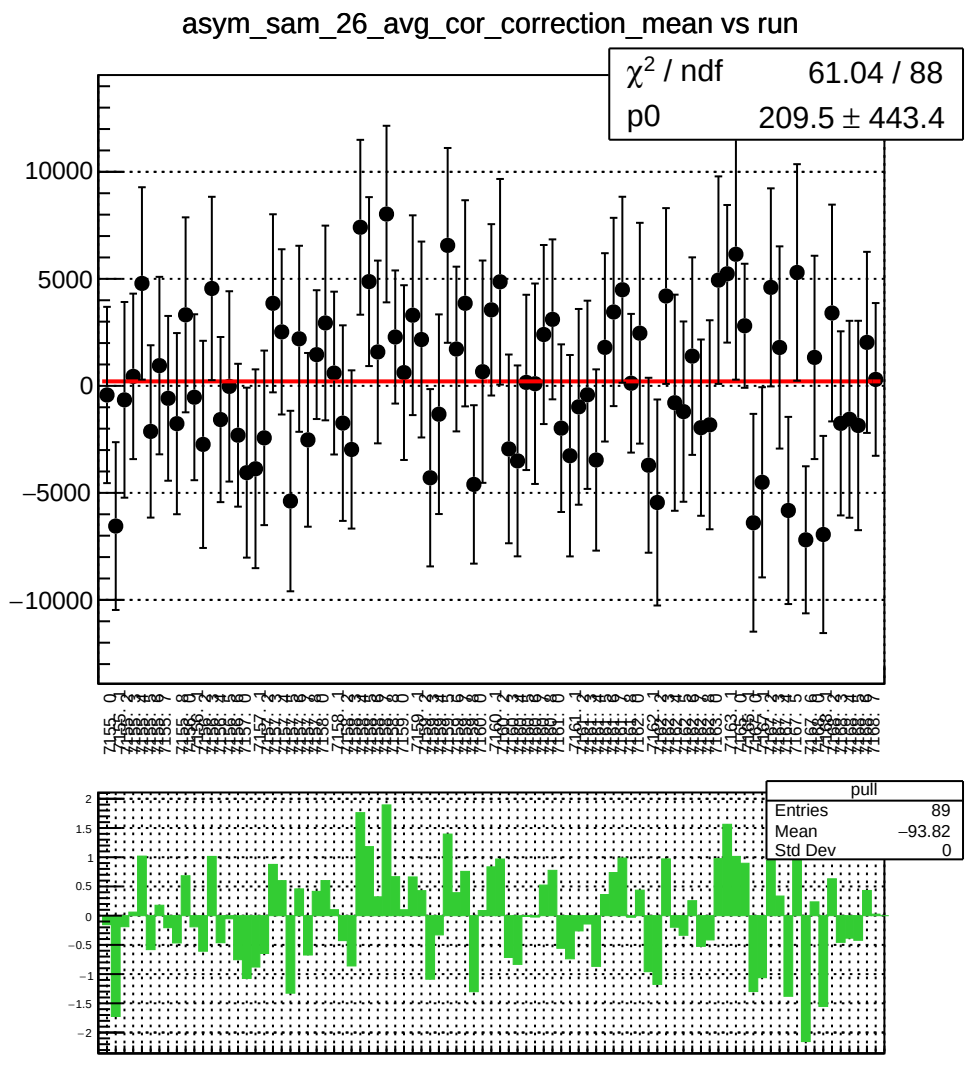

pull1D
Entries 89
Mean 0.000951
Std Dev 0.8282
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

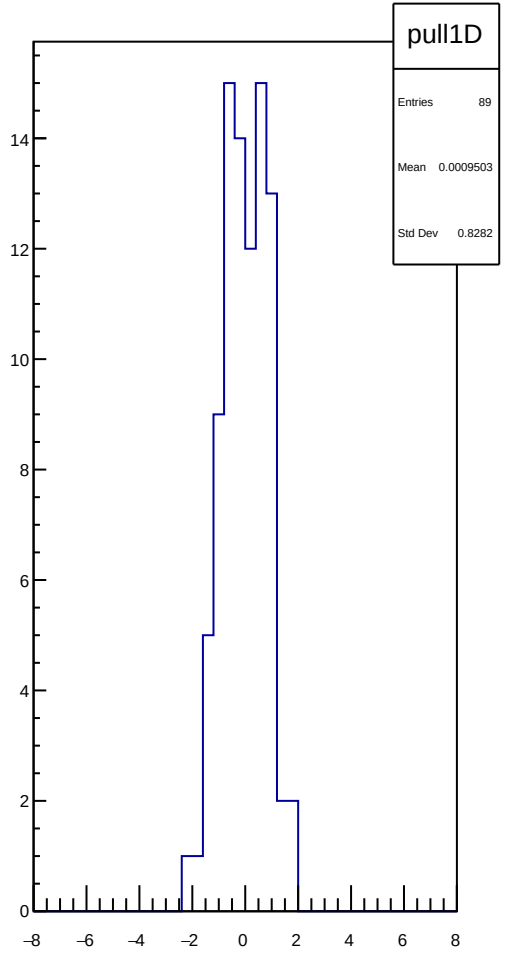

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 1.207e+04 / 88
p0 410.9 ± 0.3135
550
500
450
400
350

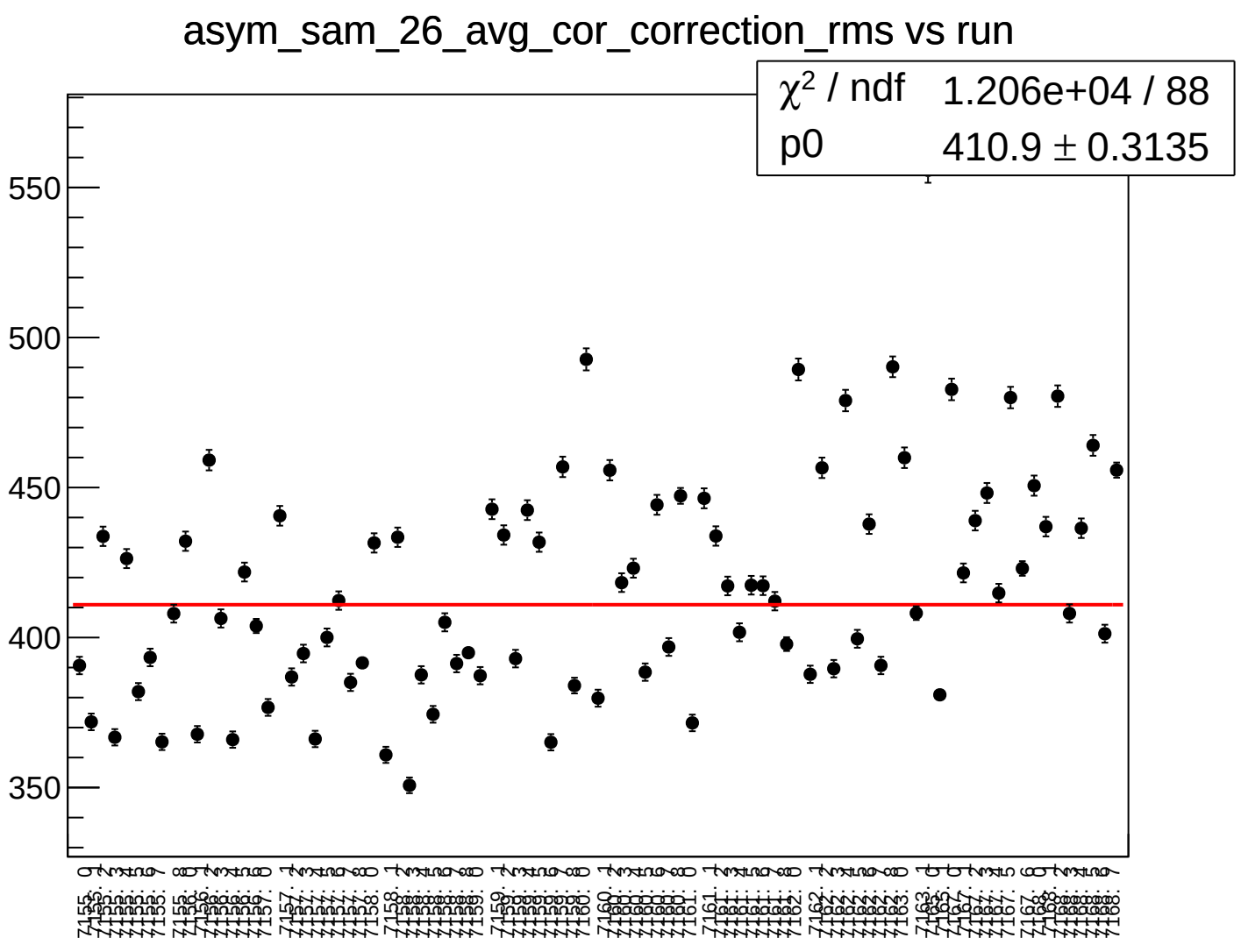

cor_asym_sam_26_avg_mean vs run
χ² / ndf 92.39 / 88
p0 −7.323 ± 72.11
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 101.5
Std Dev 0
2
1
0
−1
−2

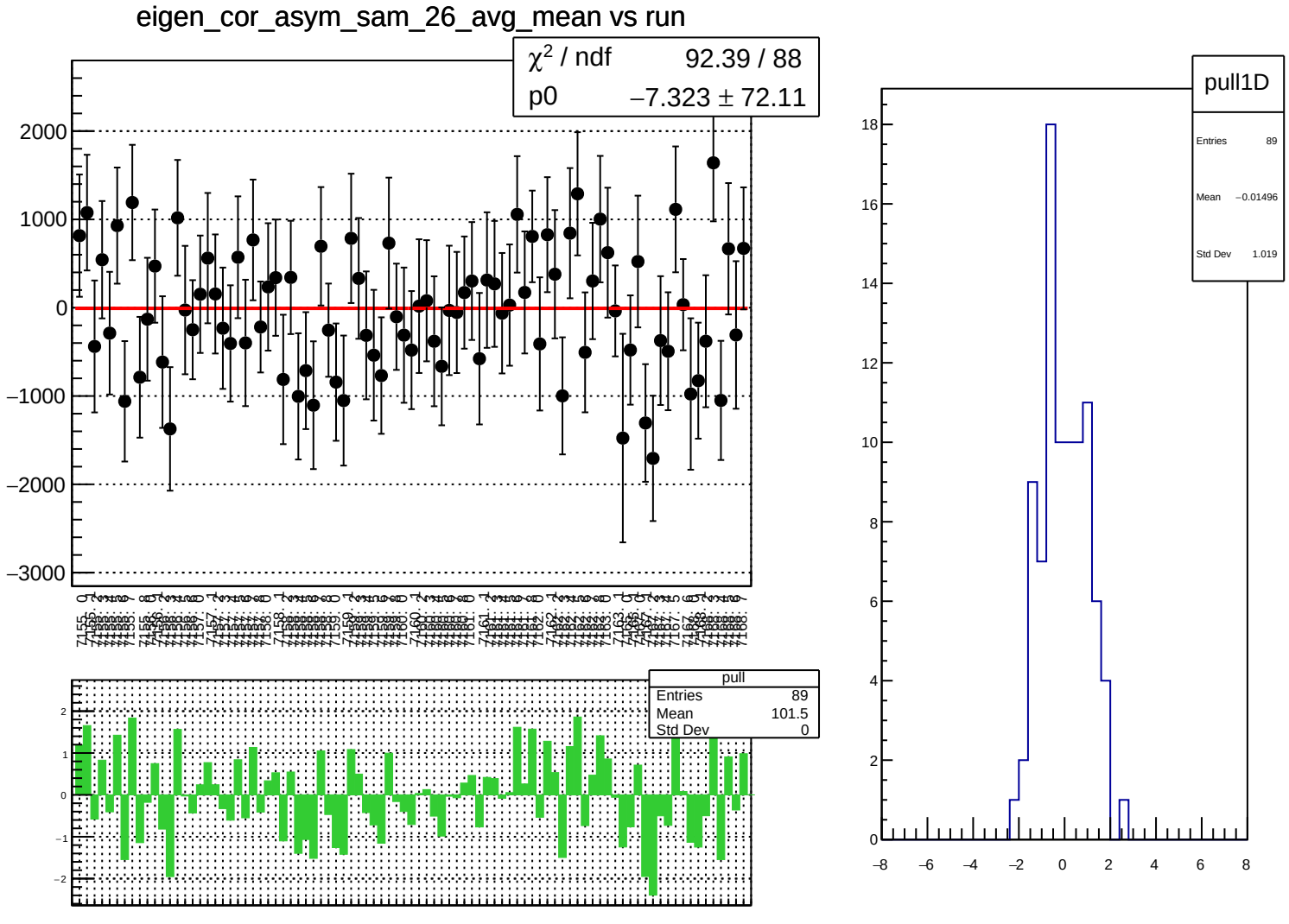

pull1D
Entries 89
Mean −0.01496
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

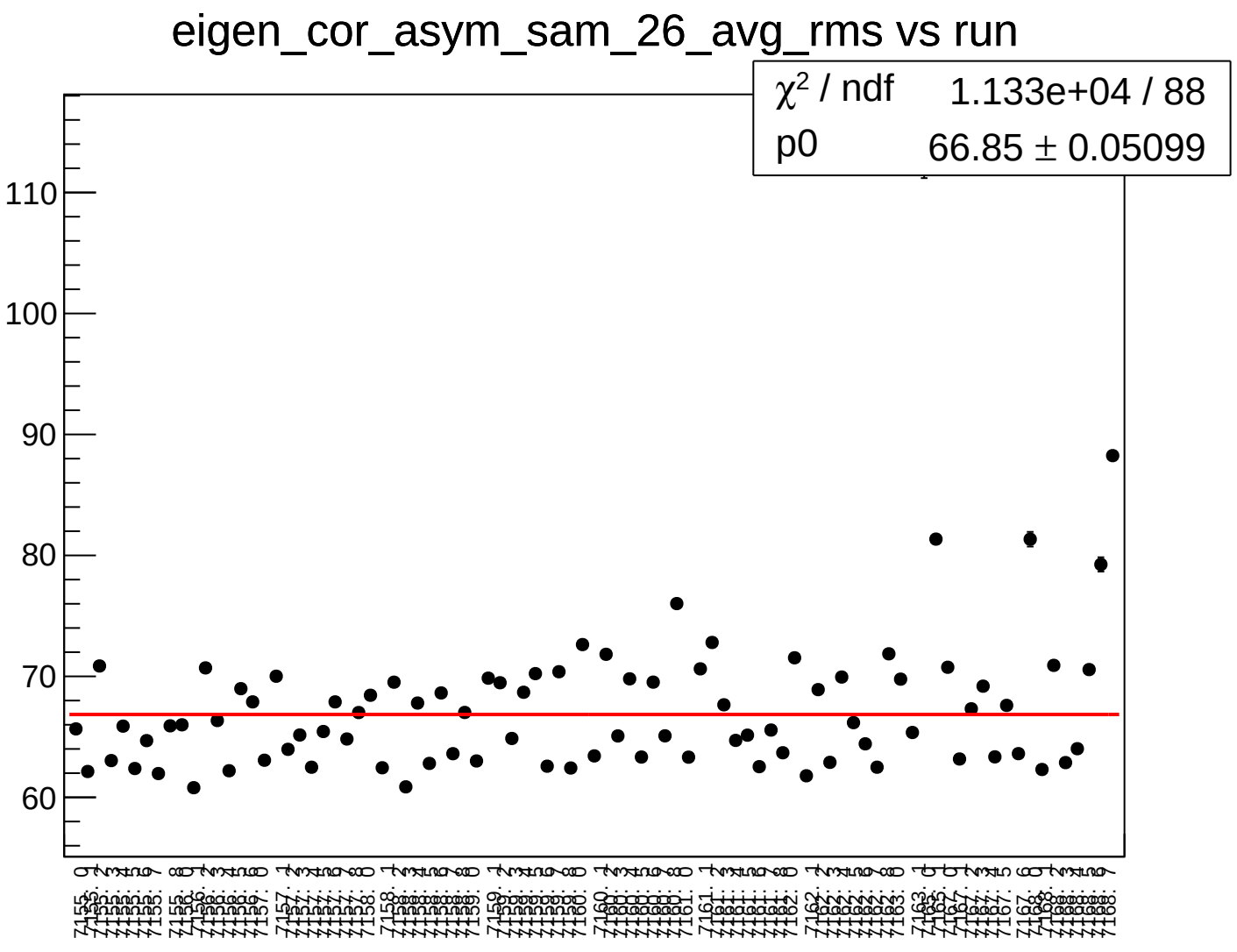

cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.133e+04 / 88
p0 66.85 ± 0.05099
110
100
90
80
70
60

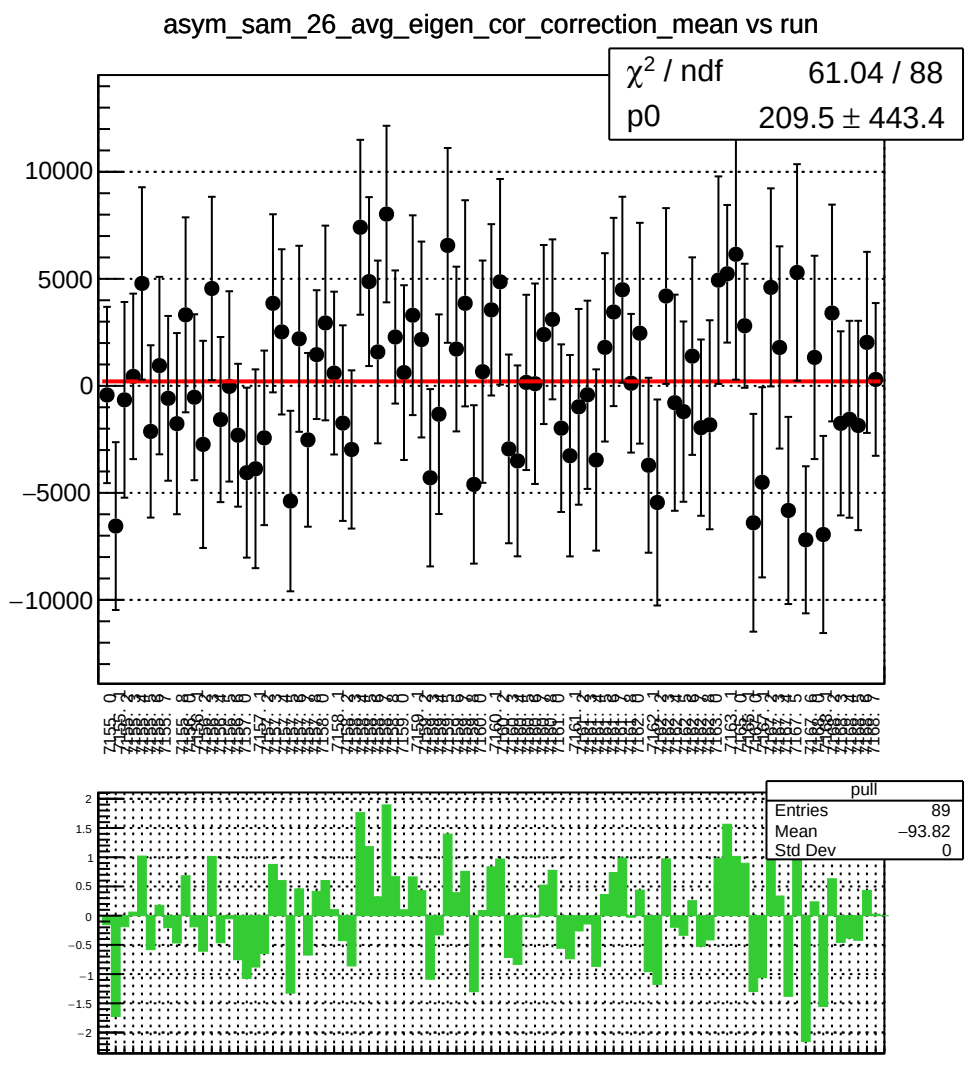

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 61.04 / 88
p0 209.5 ± 443.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −93.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

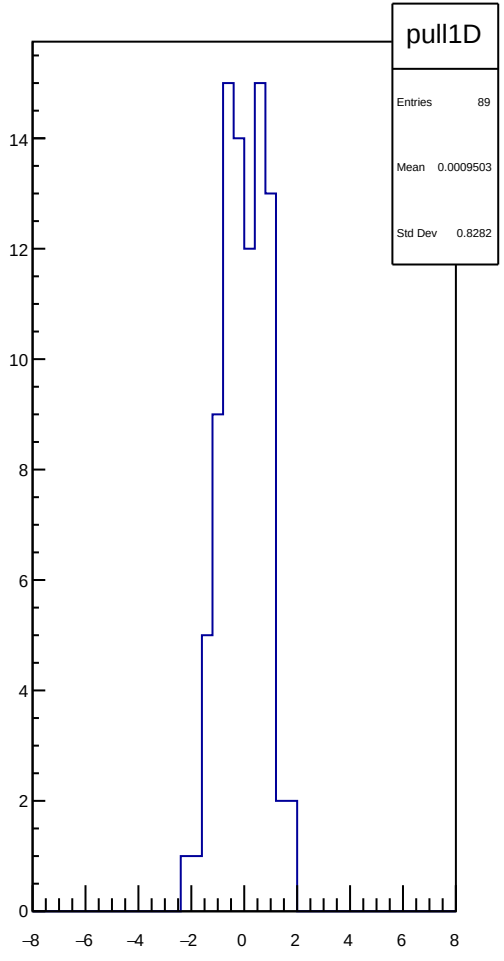

pull1D
Entries 89
Mean 0.0009503
Std Dev 0.8282
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

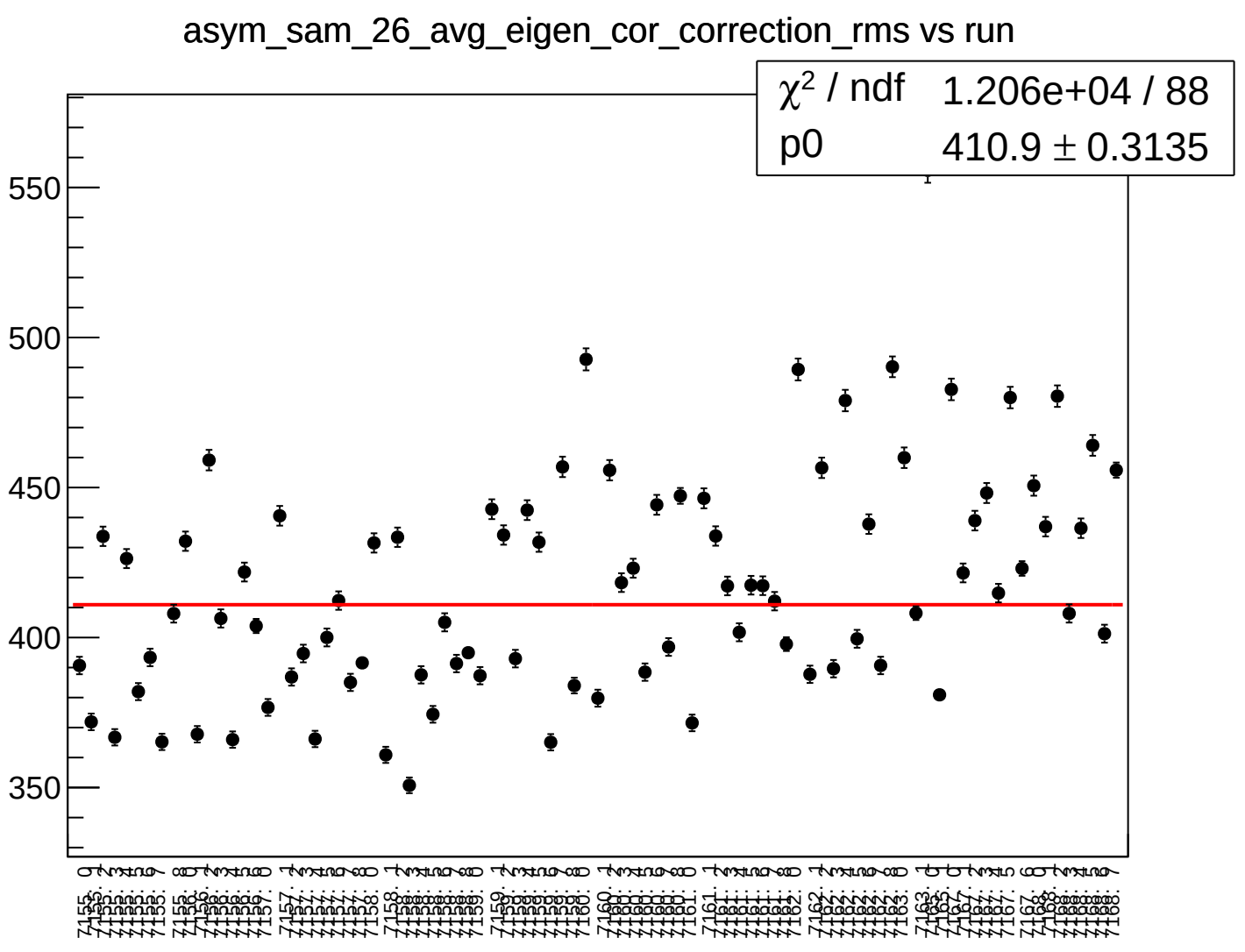

asym_sam_26_avg_cor_correction_rms vs run
χ^2 / ndf 1.206e+04 / 88
p0 410.9 ± 0.3135
550
500
450
400
350

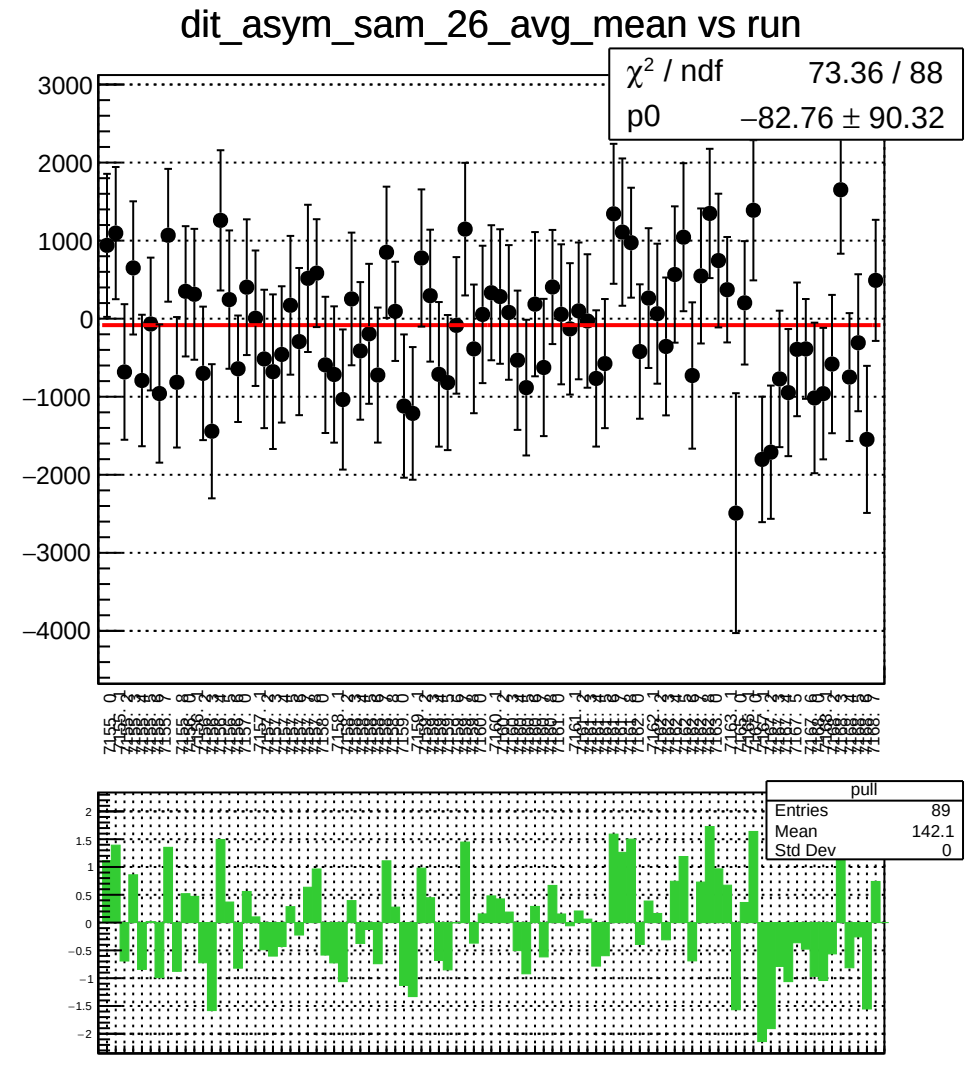

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 92.39 / 88
p0 −7.323 ± 72.11
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 101.5
Std Dev 0
pull1D
Entries 89
Mean −0.01496
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

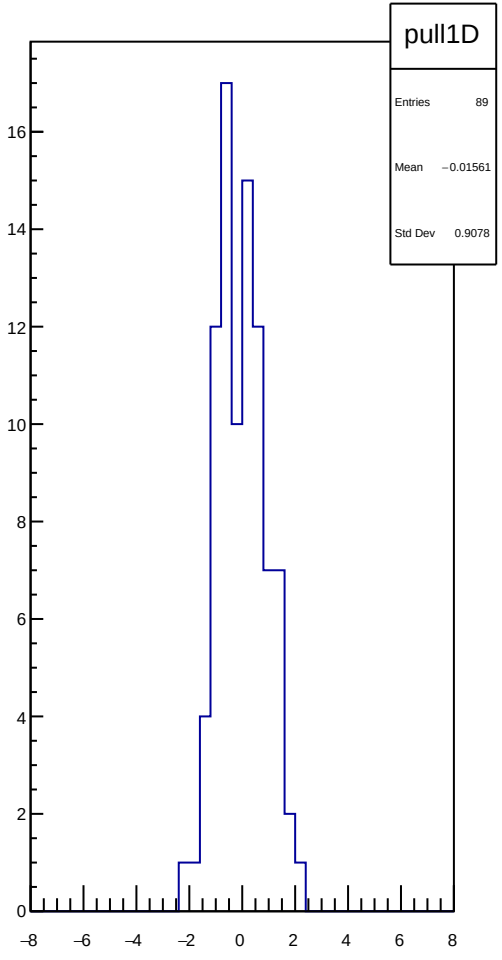

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 1.133e+04 / 88
p0 66.85 ± 0.05099
110
100
90
80
70
60

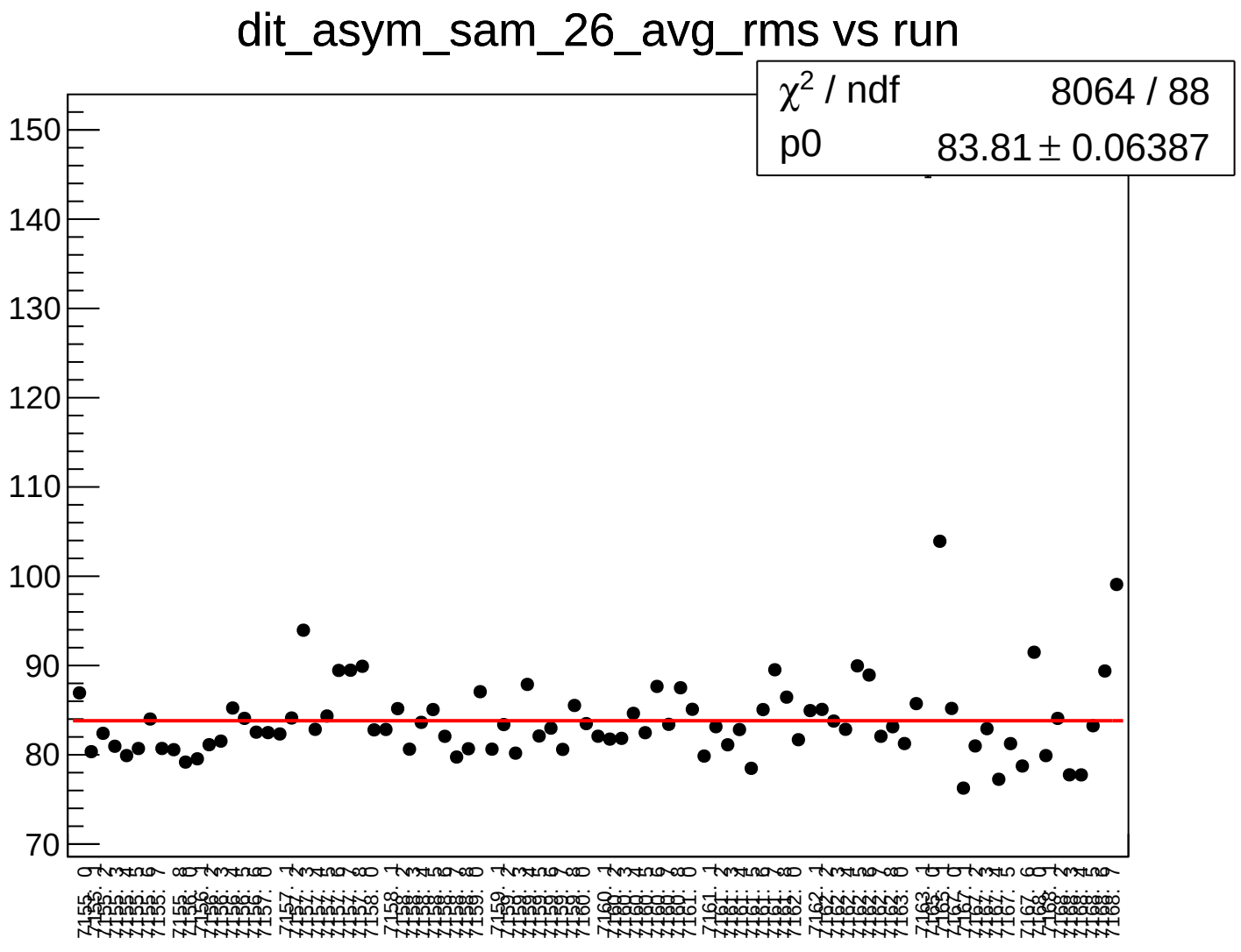

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 61.04 / 88
p0 209.5 ± 443.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −93.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

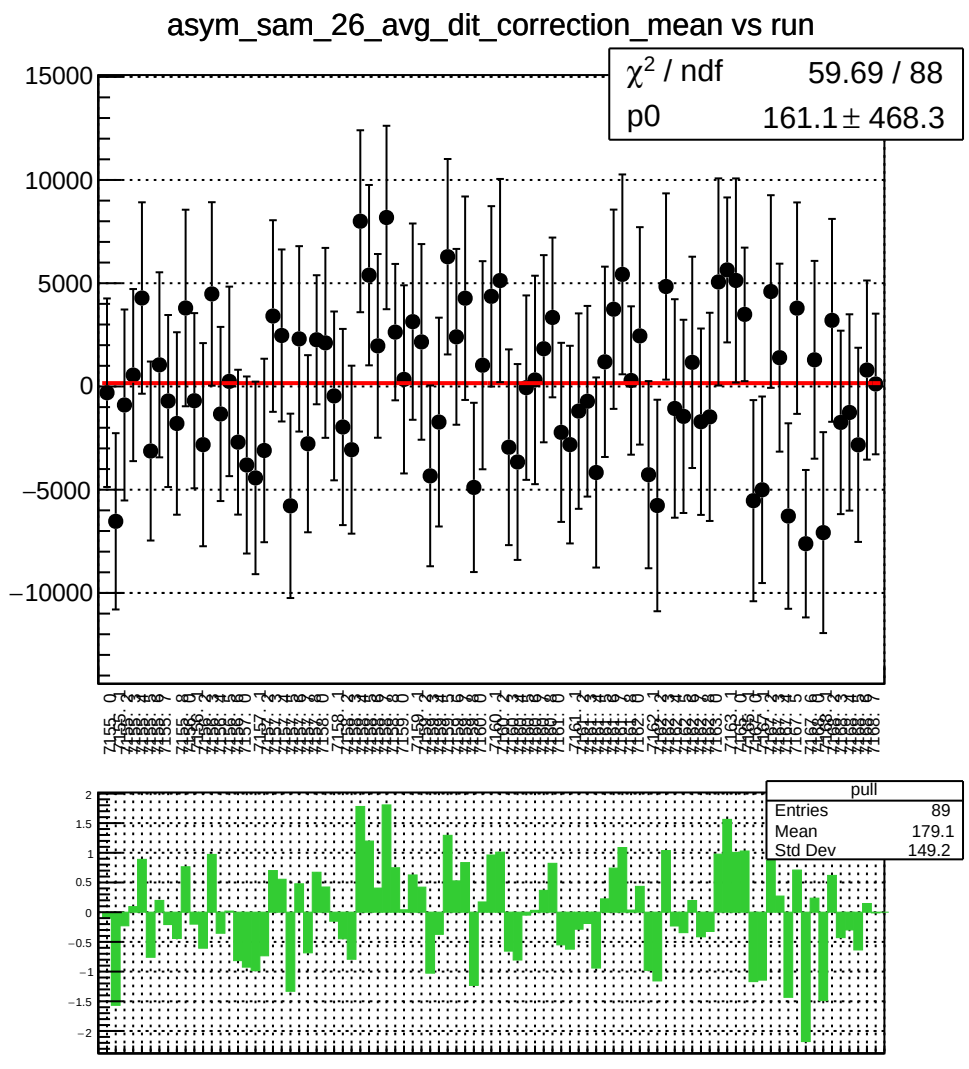

pull1D
Entries 89
Mean 0.0009503
Std Dev 0.8282
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

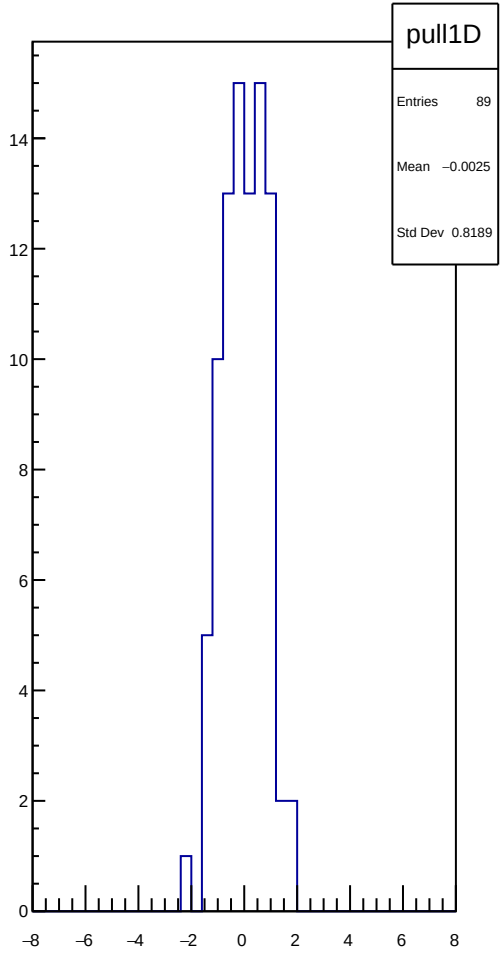

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.206e+04 / 88
p0 410.9 ± 0.3135
550
500
450
400
350

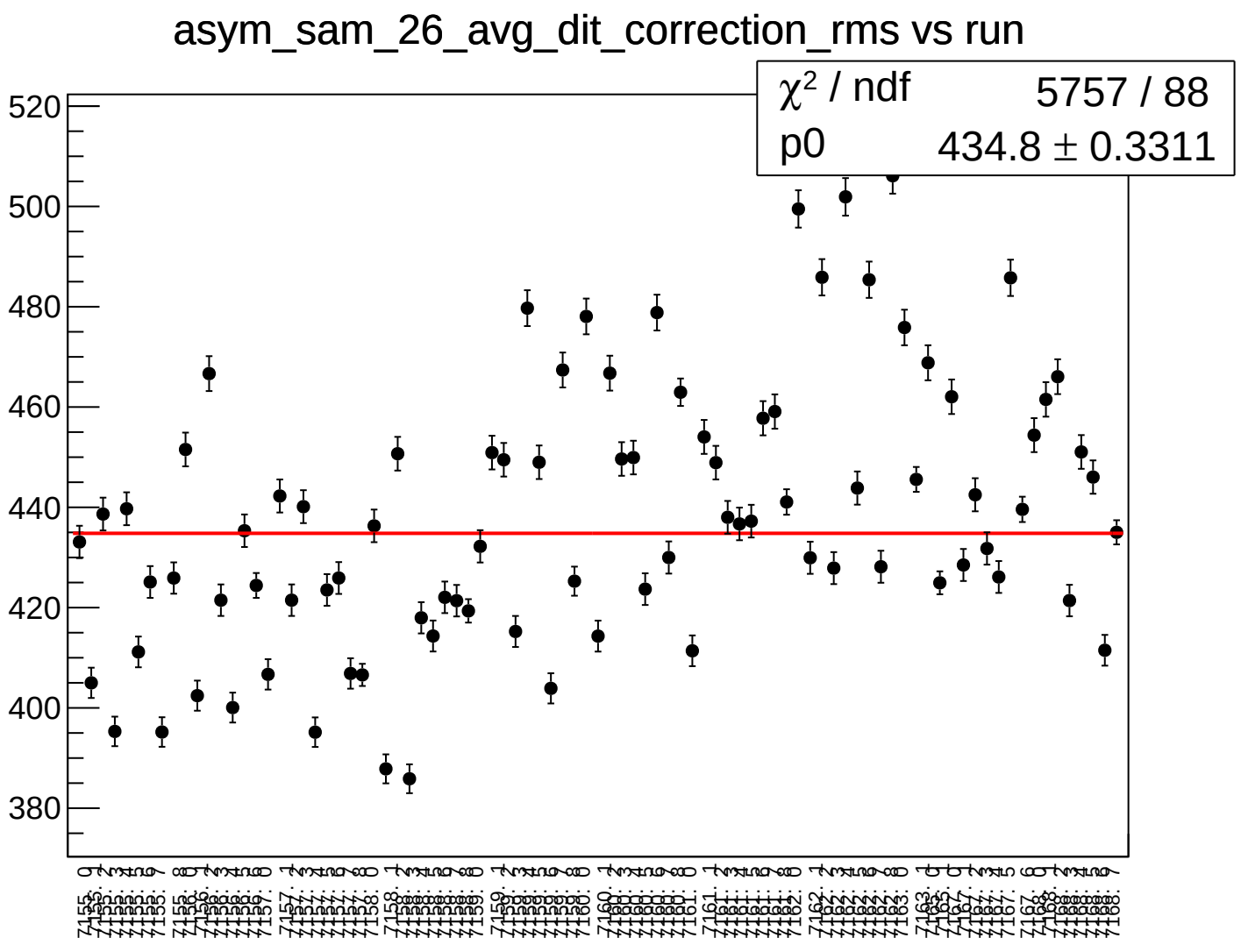

dit_asym_sam_26_avg_mean vs run
χ² / ndf 73.36 / 88
p0 −82.76 ± 90.32
pull
Entries 89
Mean 142.1
Std Dev 0

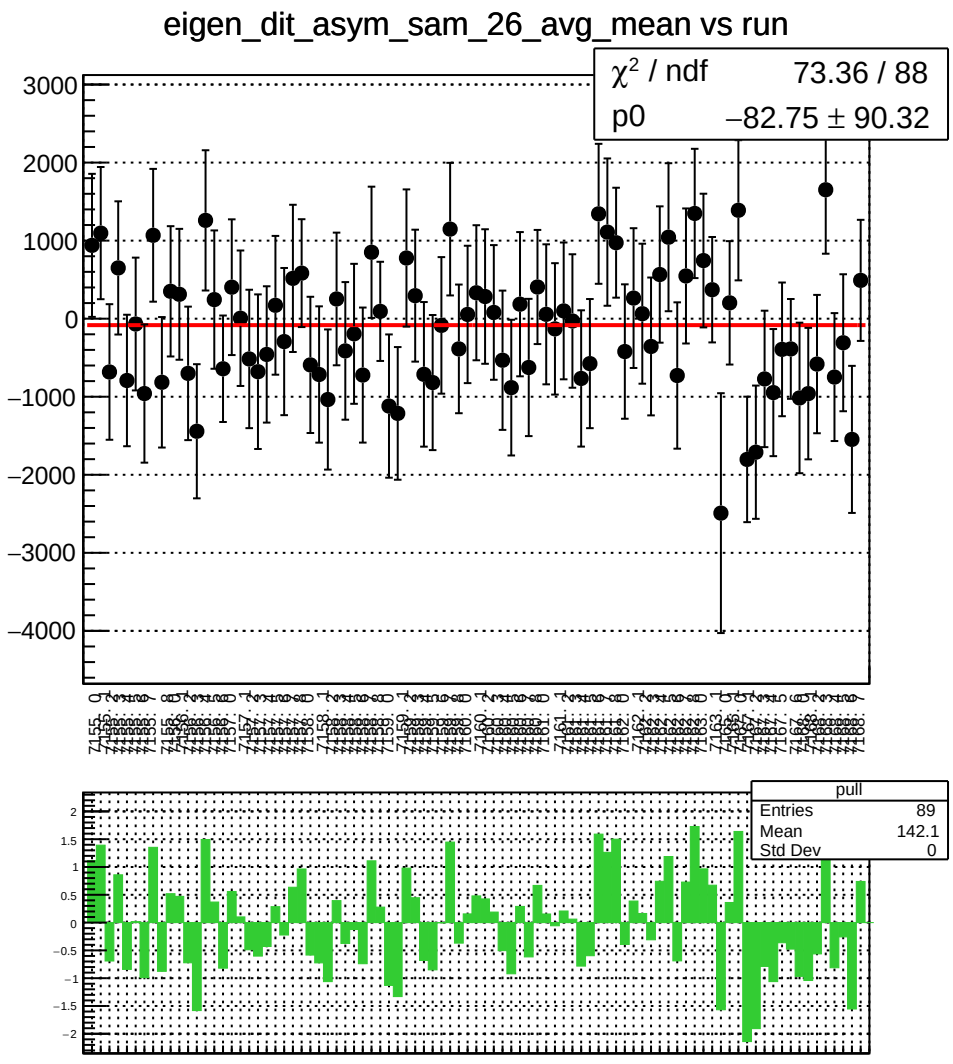

pull1D
Entries 89
Mean −0.01561
Std Dev 0.9078

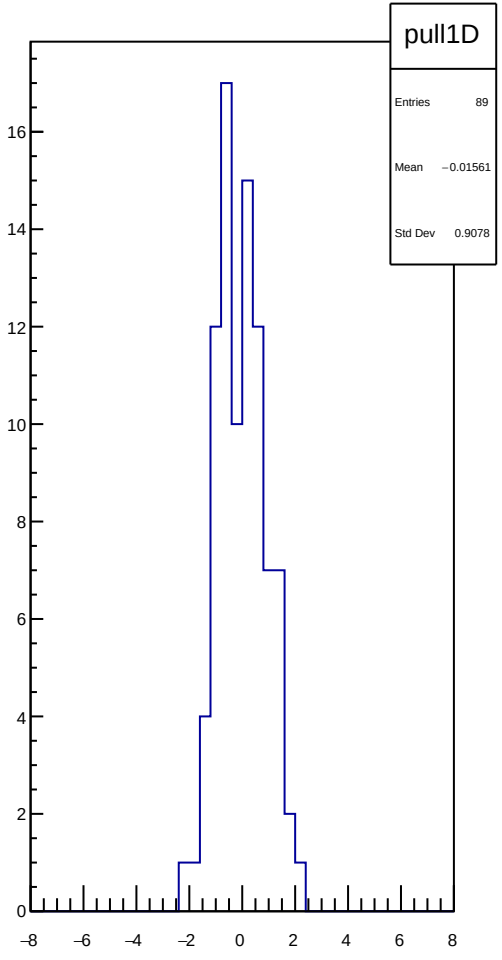

dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 8064 / 88
p0 83.81 ± 0.06387
150
140
130
120
110
100
90
80
70

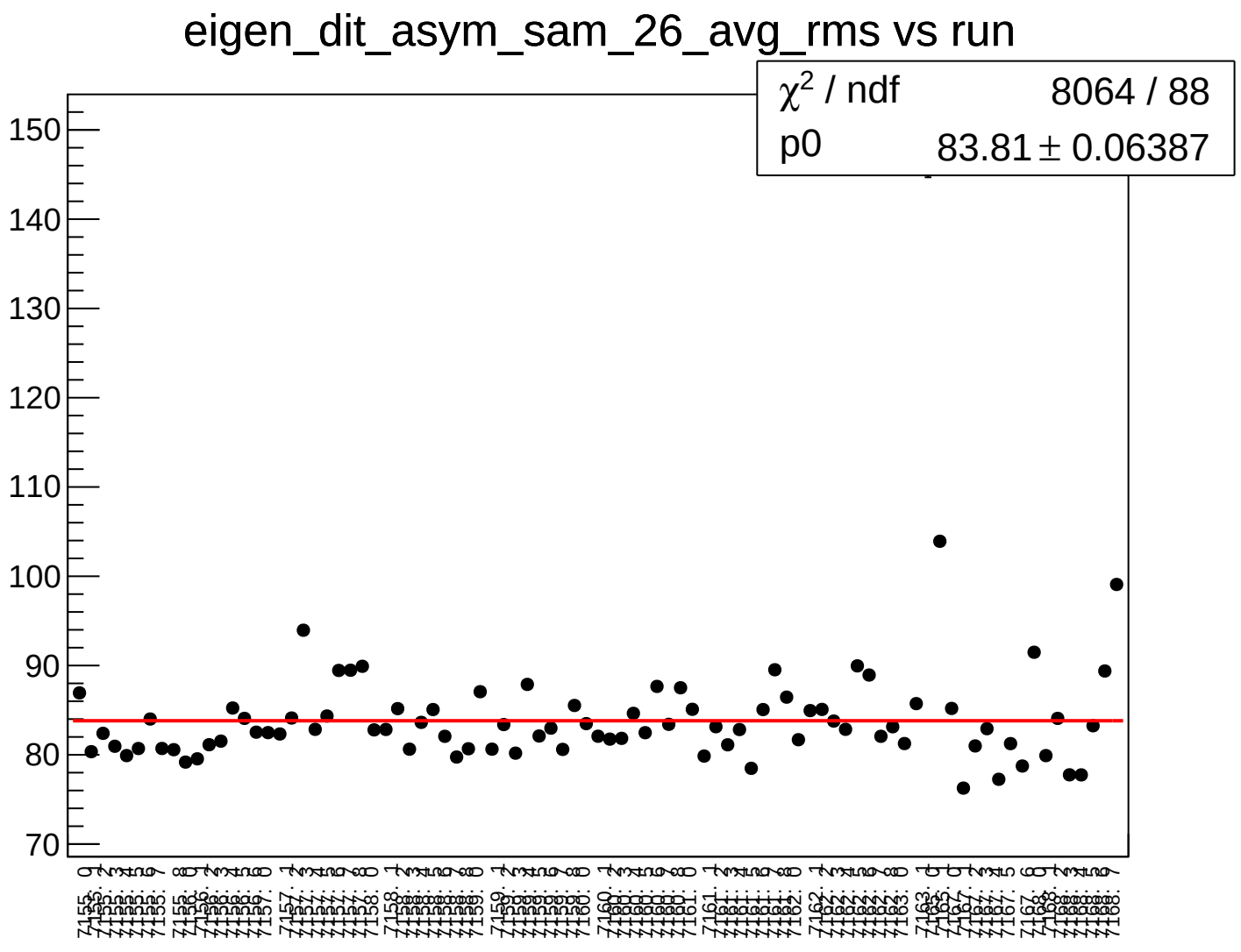

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 59.69 / 88
p0 161.1 ± 468.3
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 179.1
Std Dev 149.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

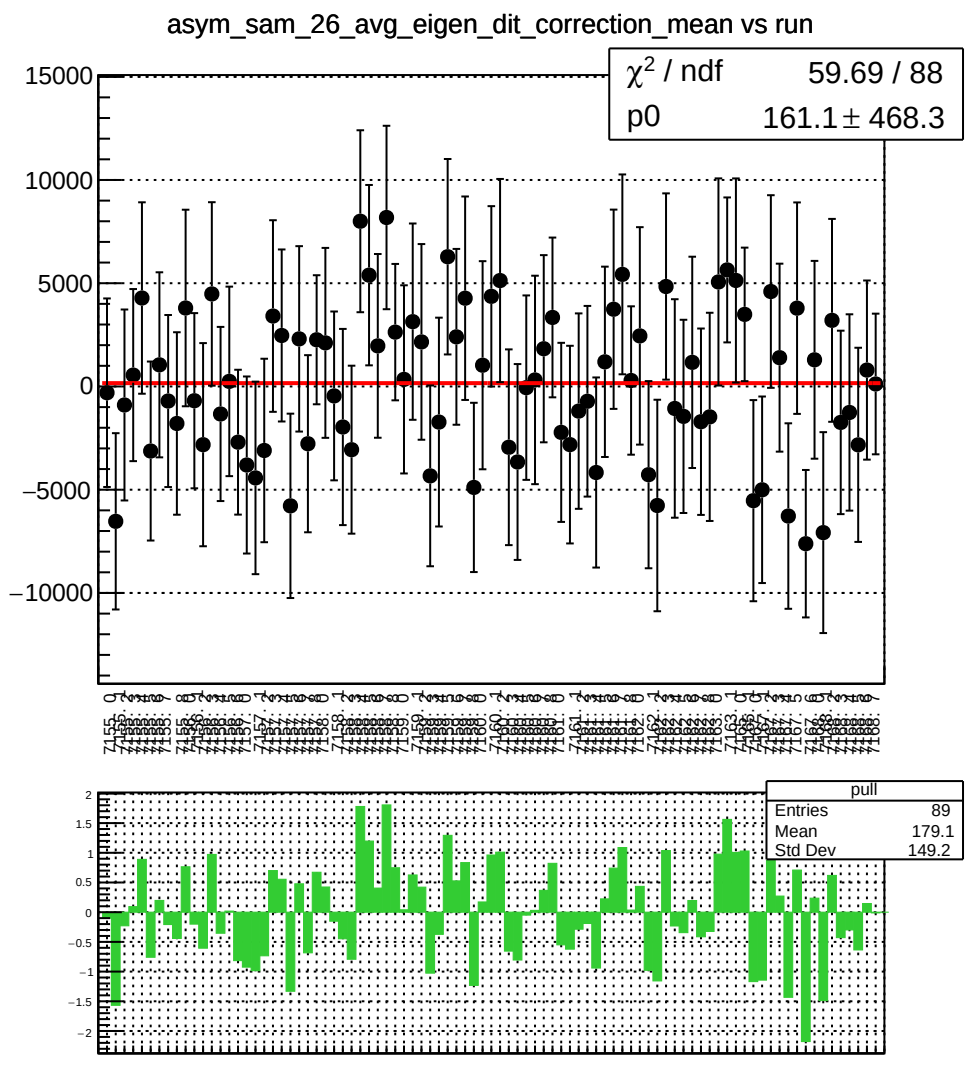

pull1D
Entries 89
Mean −0.0025
Std Dev 0.8189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

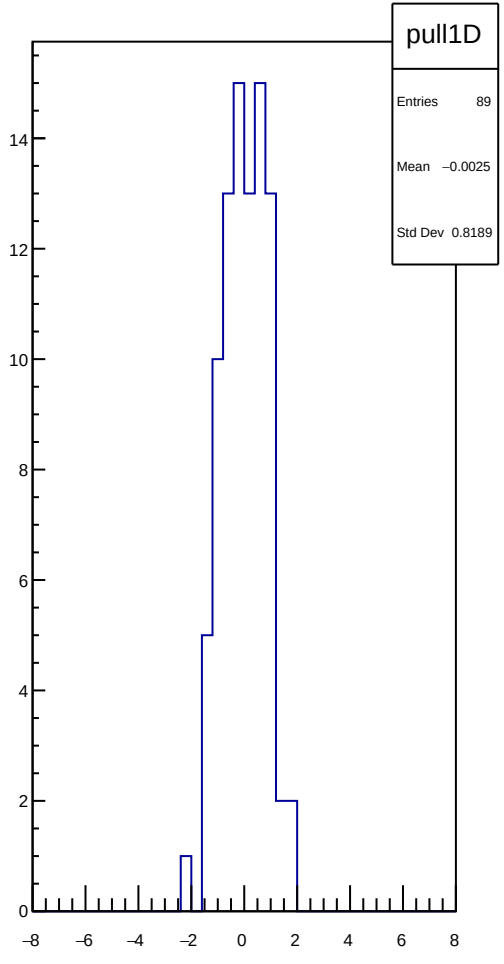

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 5757 / 88
p0 434.8 ± 0.3311
520
500
480
460
440
420
400
380

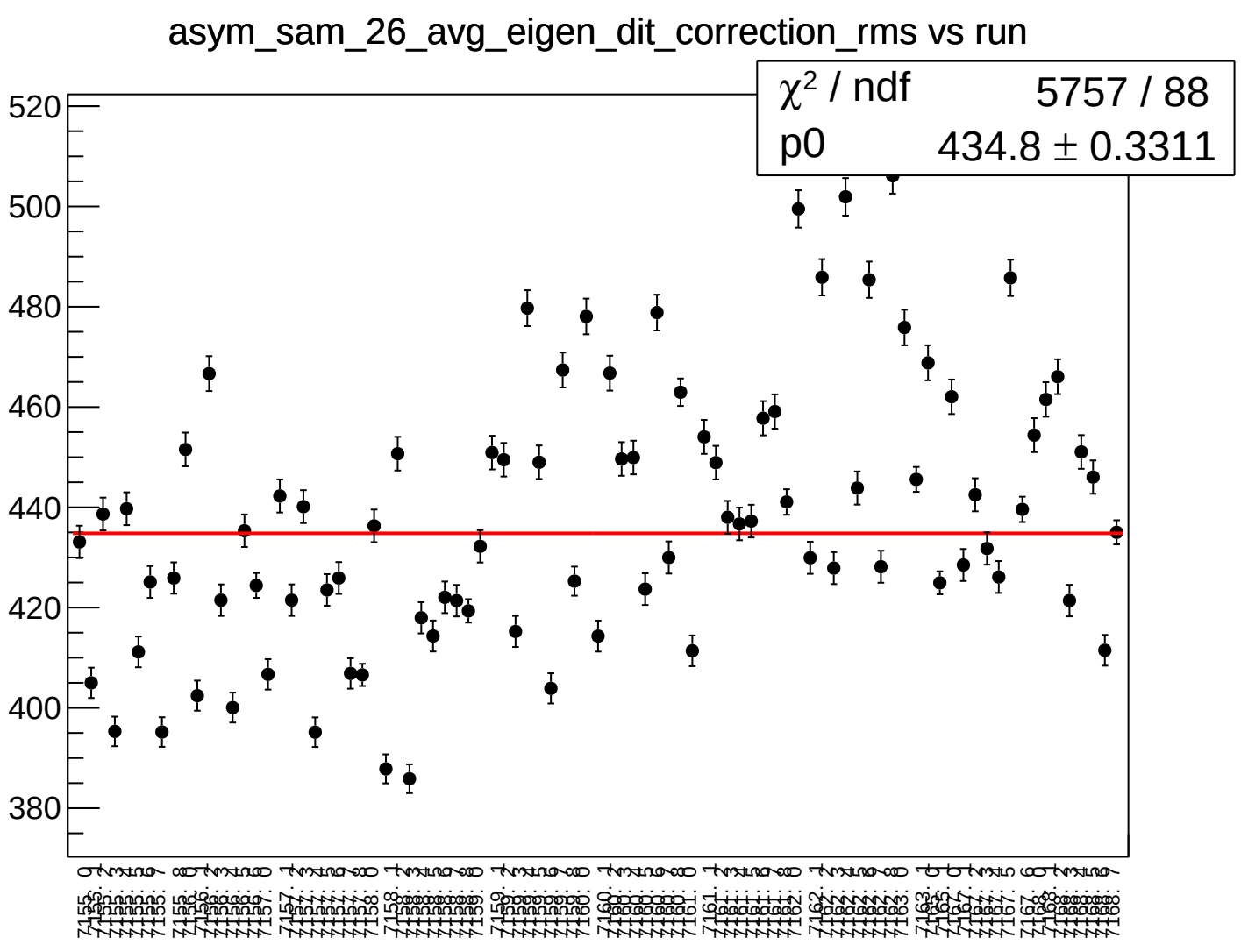

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 73.36 / 88
p0 −82.75 ± 90.32
pull
Entries 89
Mean 142.1
Std Dev 0

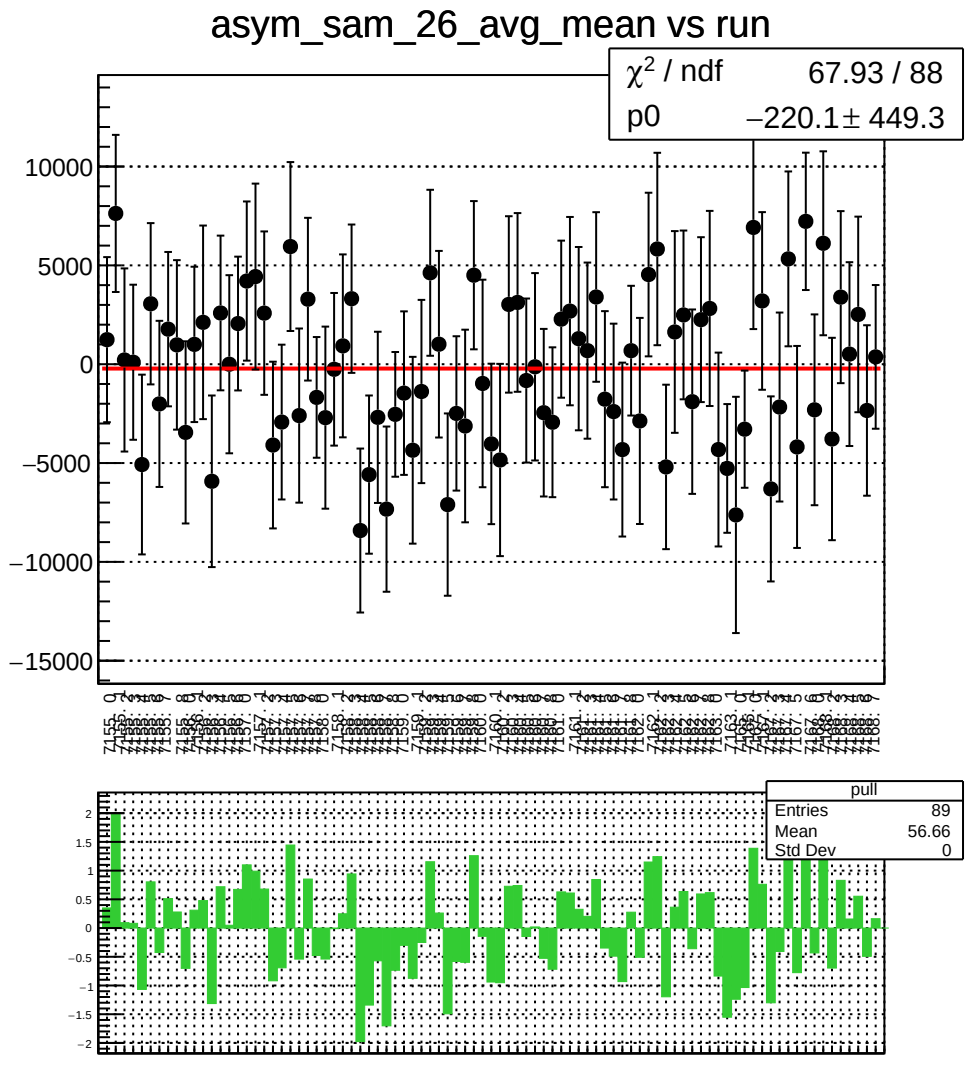

pull1D
Entries 89
Mean −0.01561
Std Dev 0.9078

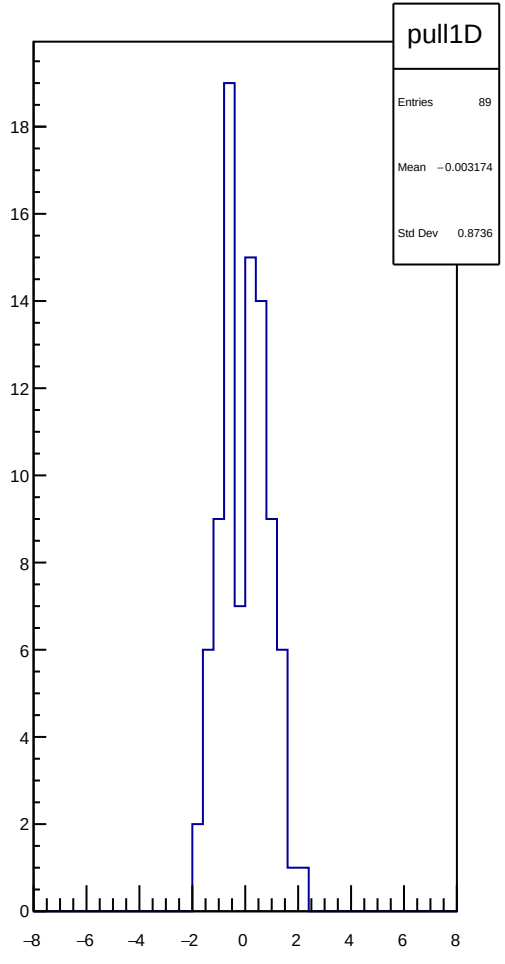

eigen_dit_asym_sam_26_avg_rms vs run
χ^2 / ndf 8064 / 88
p0 83.81 ± 0.06387
150
140
130
120
110
100
90
80
70

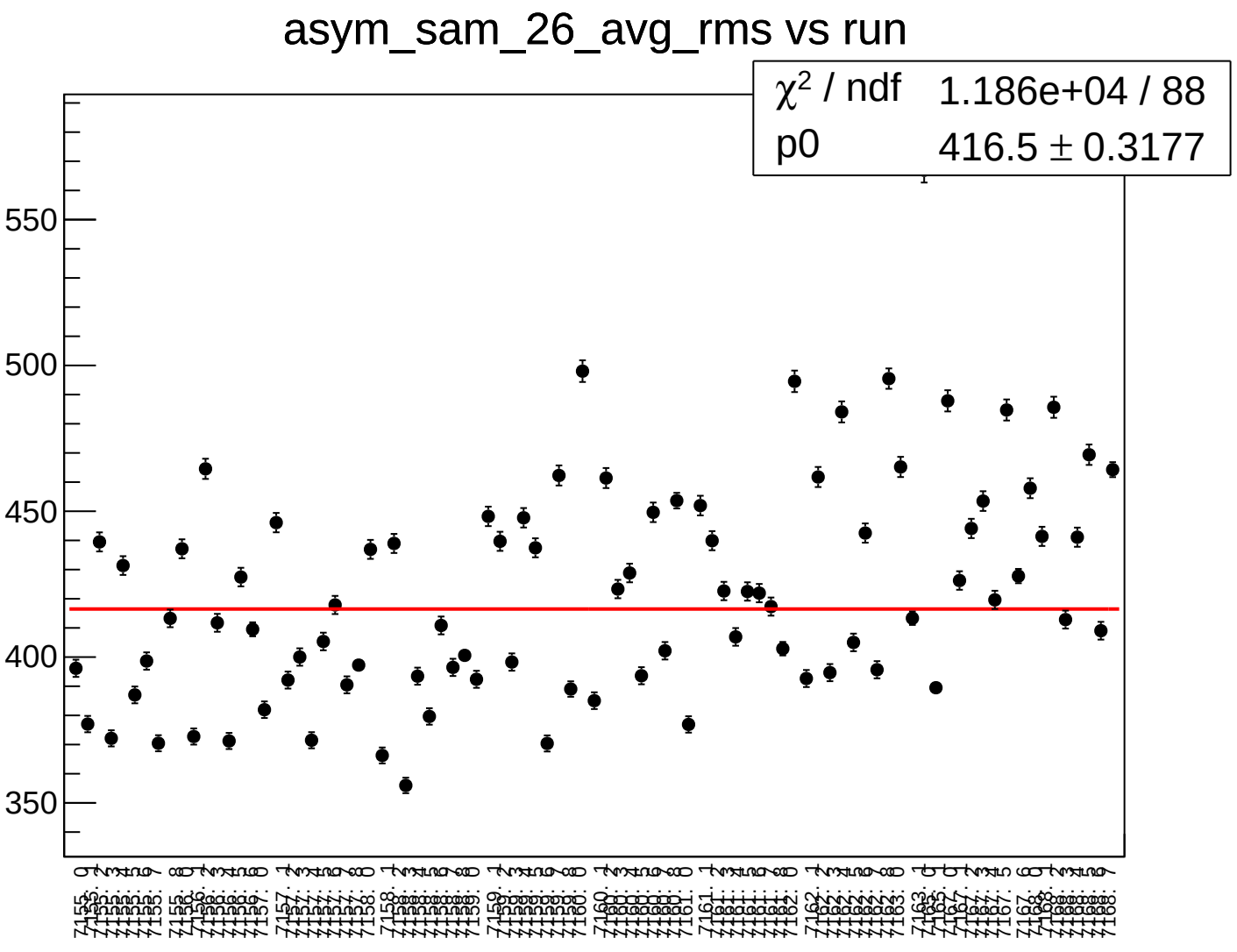

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 59.69 / 88
p0 161.1 ± 468.3
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean 179.1
Std Dev 149.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

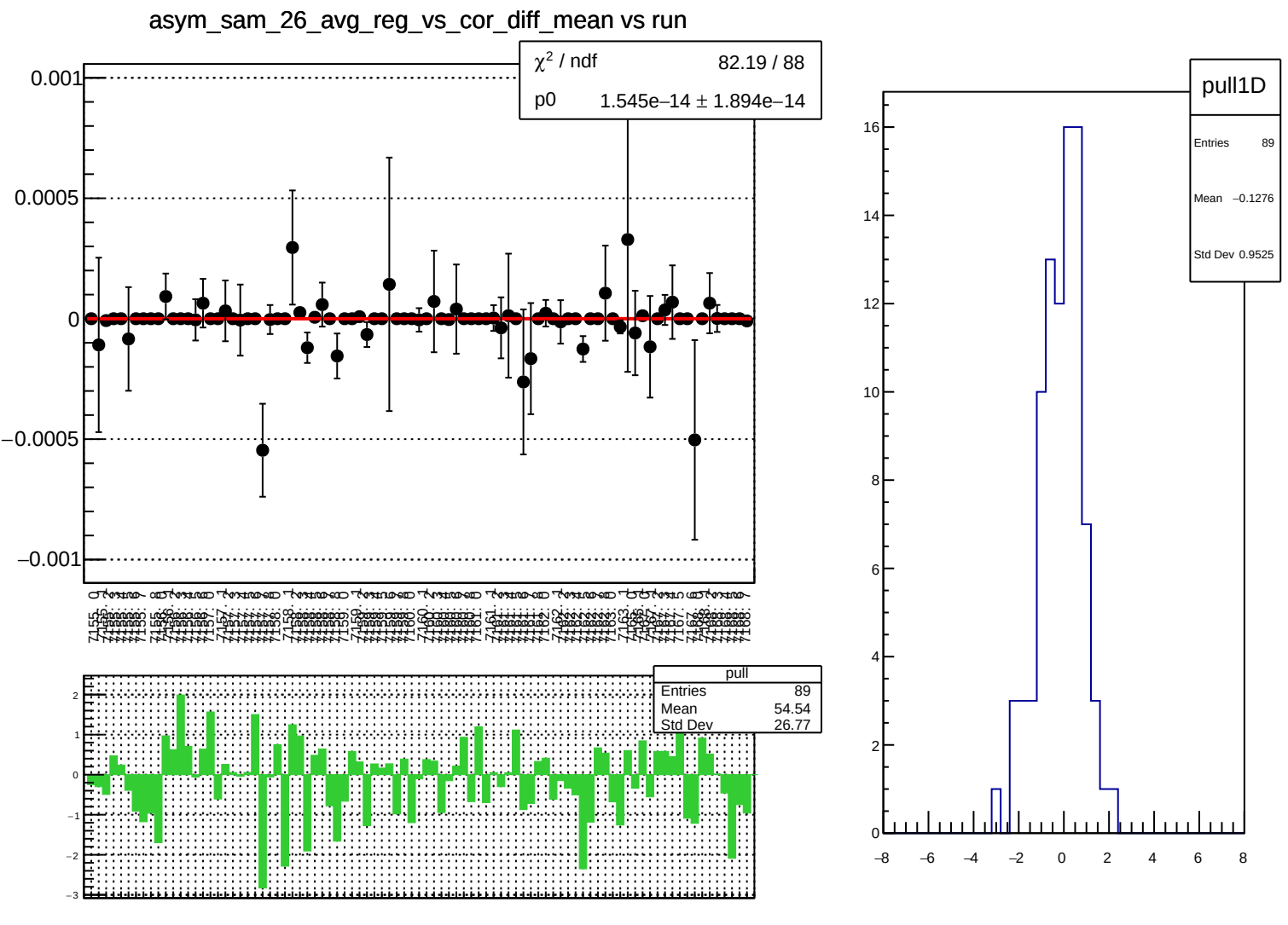

pull1D
Entries 89
Mean −0.0025
Std Dev 0.8189
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

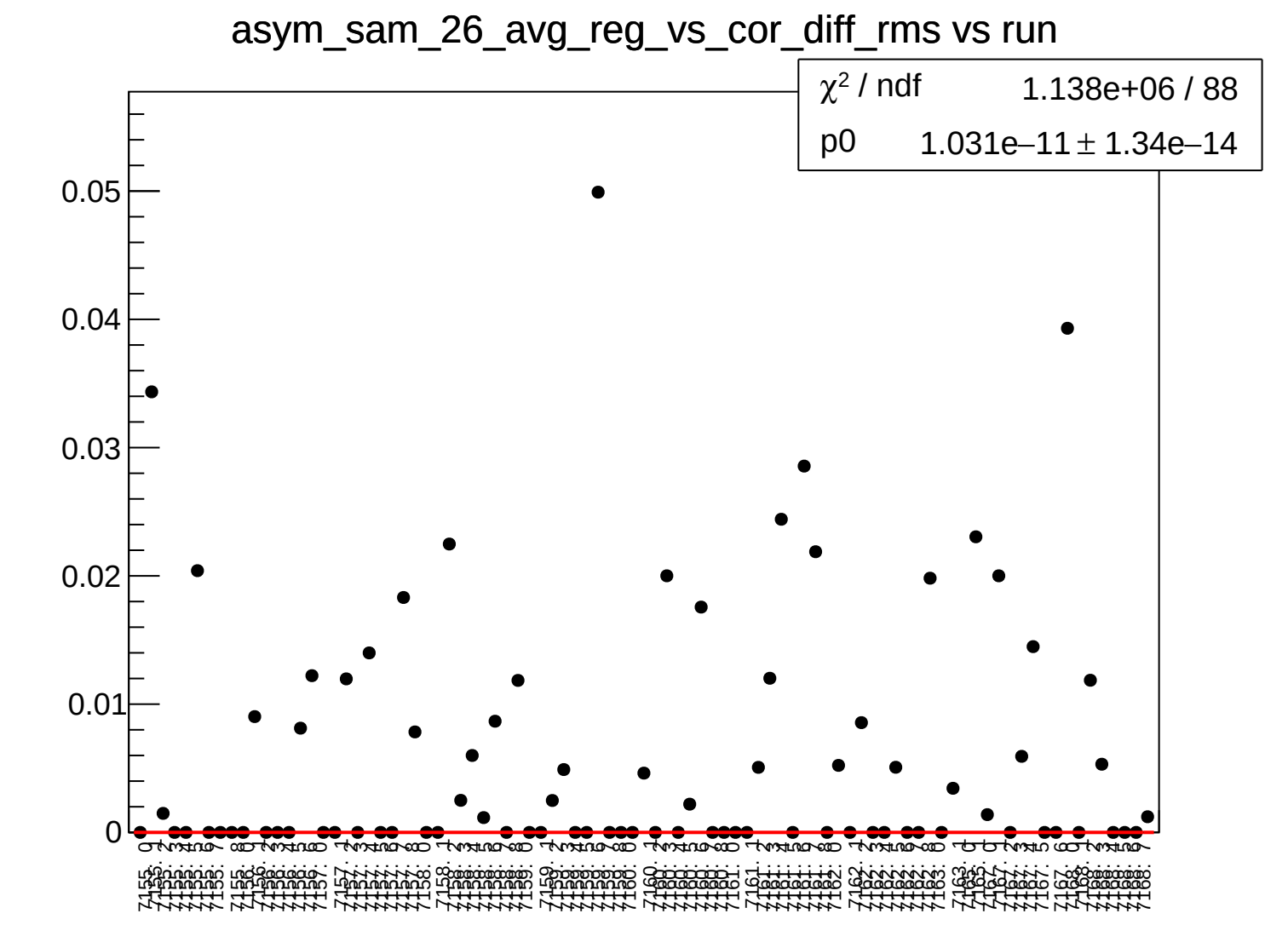

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 5757 / 88
p0 434.8 ± 0.3311
520
500
480
460
440
420
400
380

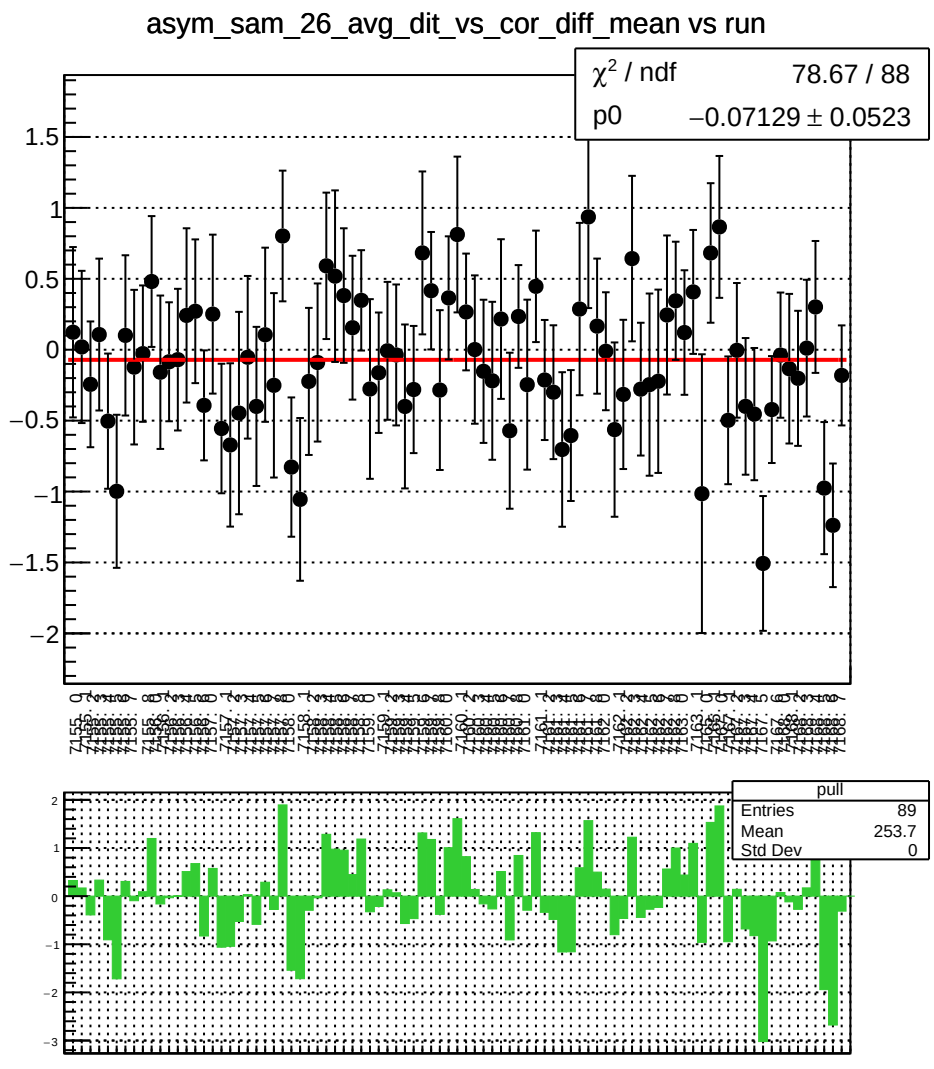

asym_sam_26_avg_mean vs run
χ^2 / ndf 67.93 / 88
p0 −220.1± 449.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean 56.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

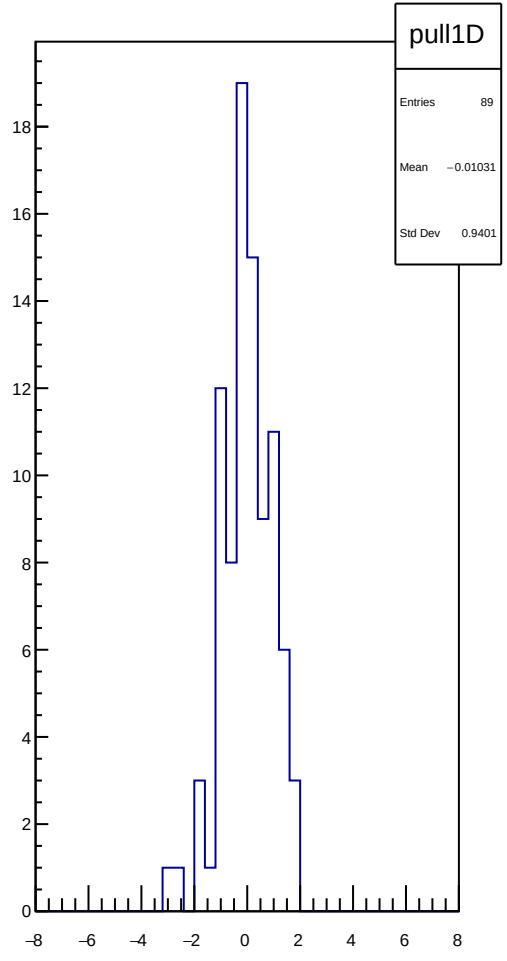

pull1D
Entries 89
Mean −0.003174
Std Dev 0.8736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

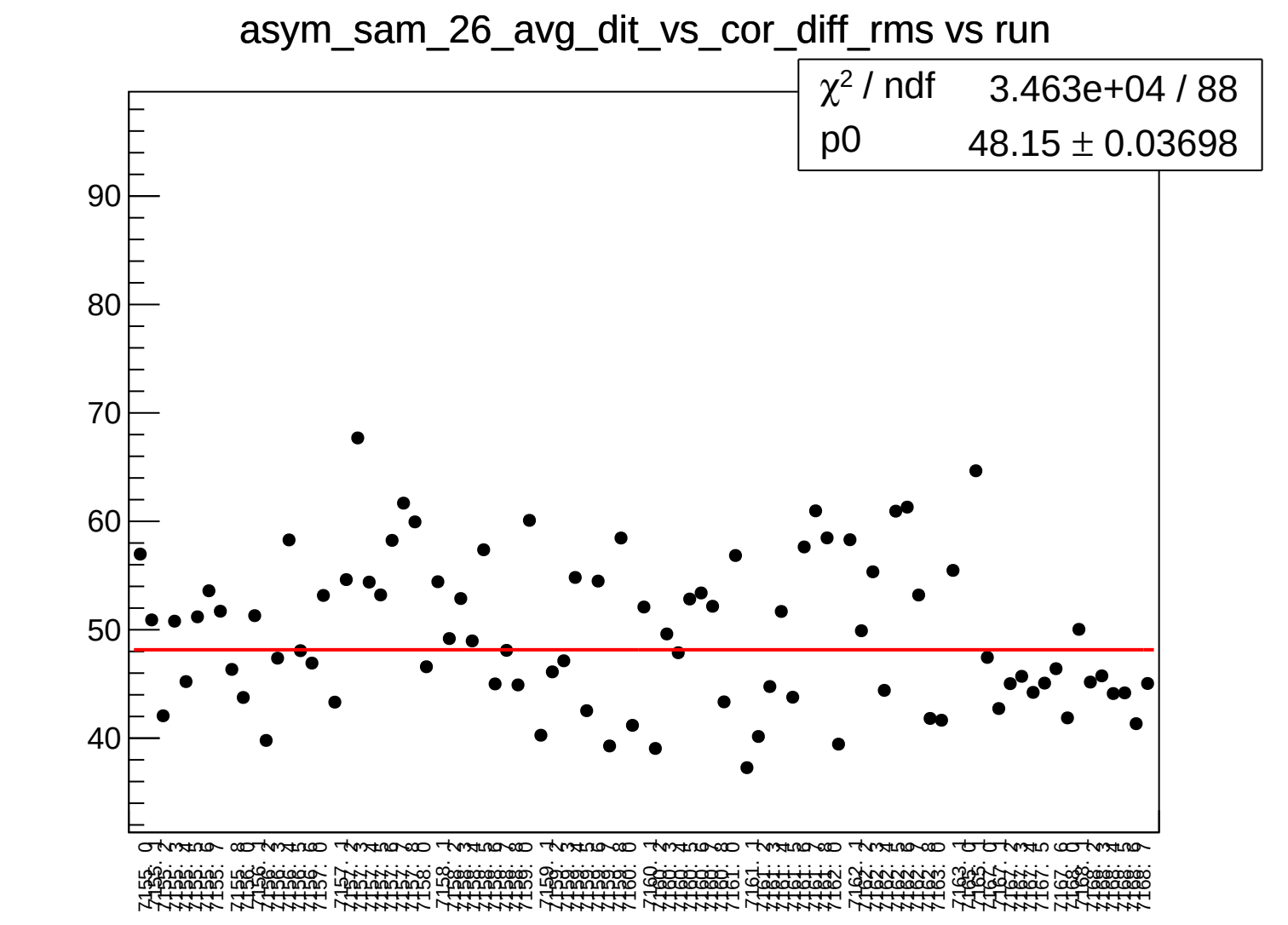

asym_sam_26_avg_rms vs run
χ² / ndf 1.186e+04 / 88
p0 416.5 ± 0.3177
550
500
450
400
350

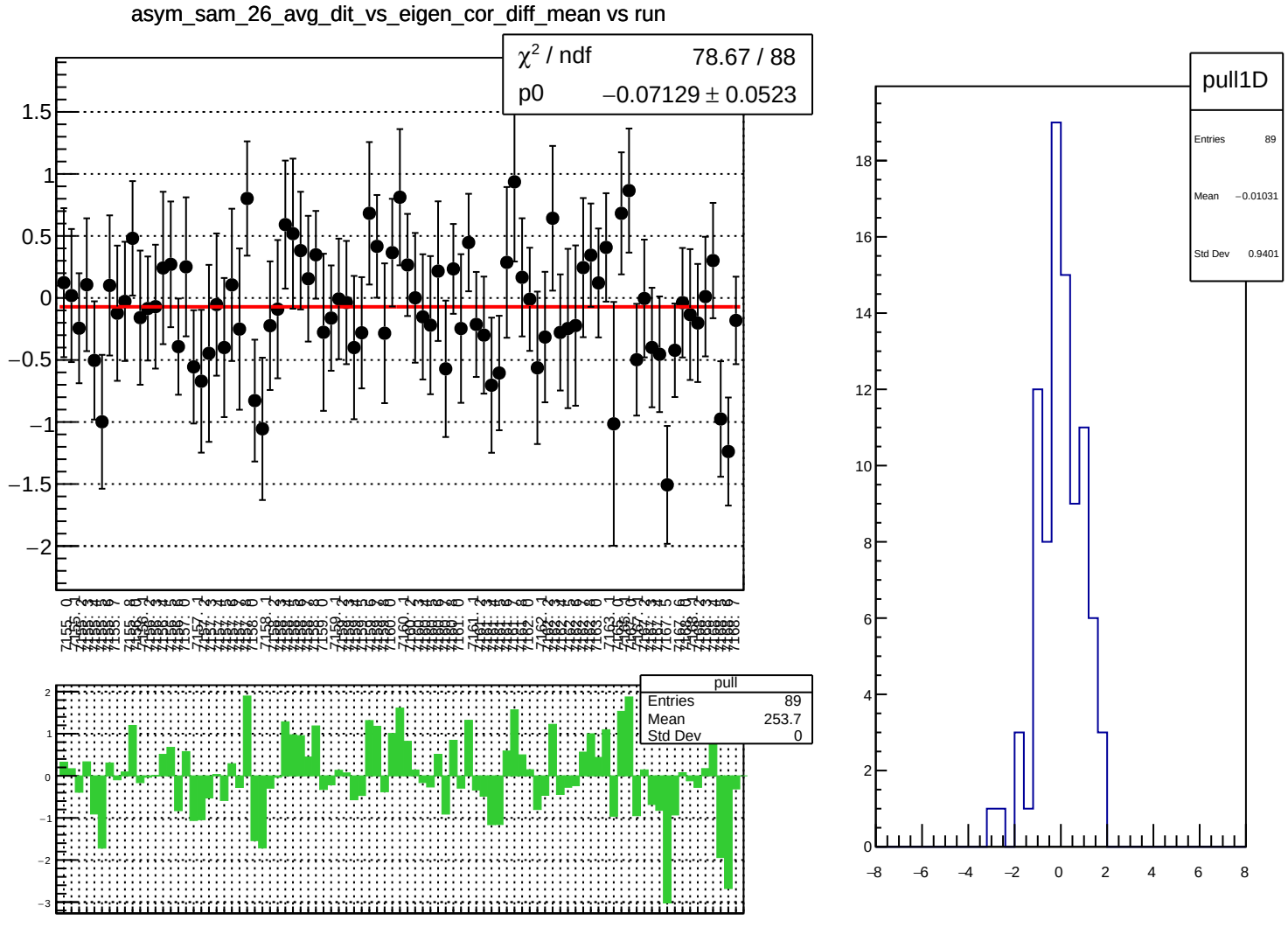

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.19 / 88
p0 1.545e−14 ± 1.894e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 54.54
Std Dev 26.77
pull1D
Entries 89
Mean −0.1276
Std Dev 0.9525

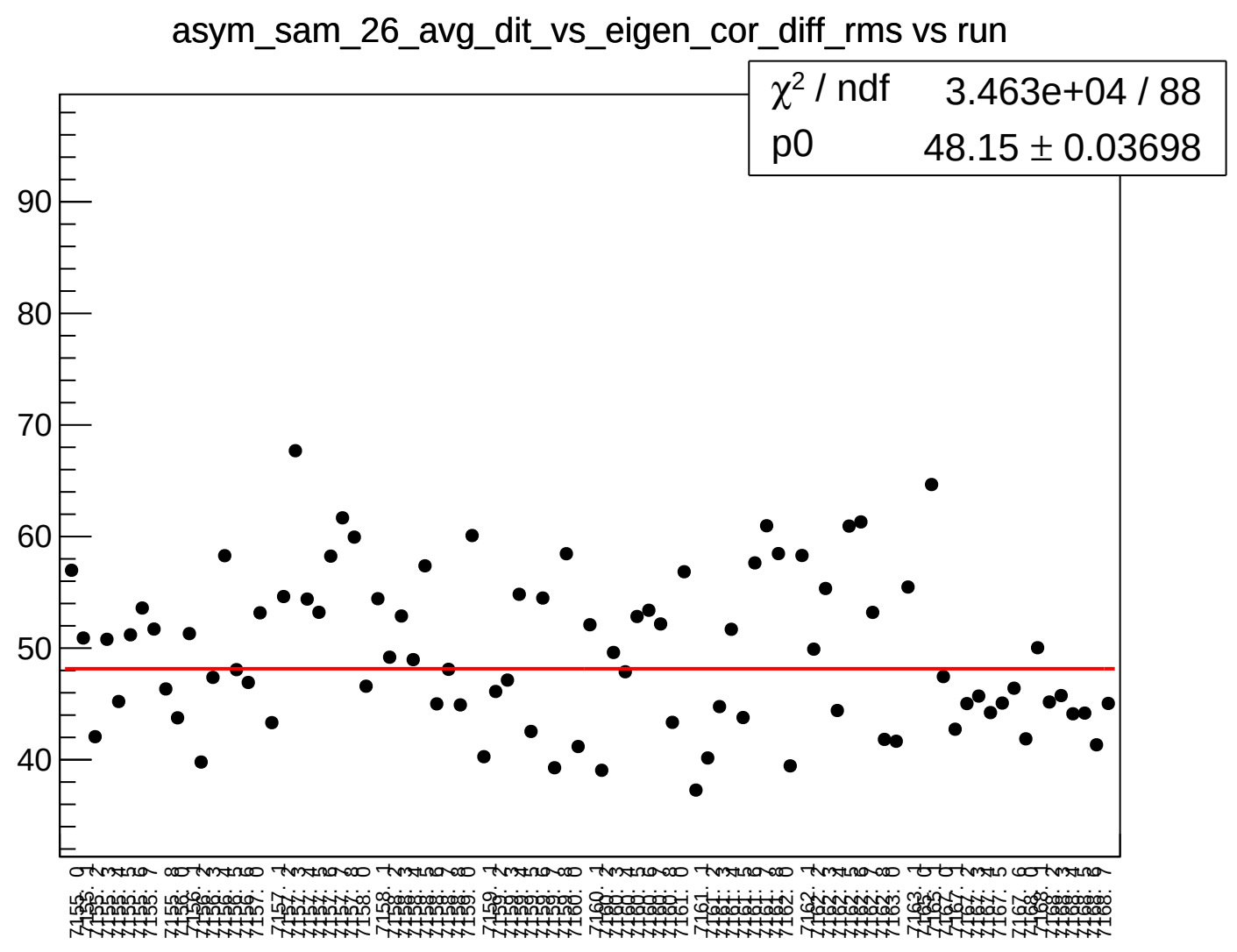

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.138e+06 / 88
p0 1.031e−11 ± 1.34e−14
0.05
0.04
0.03
0.02
0.01
0

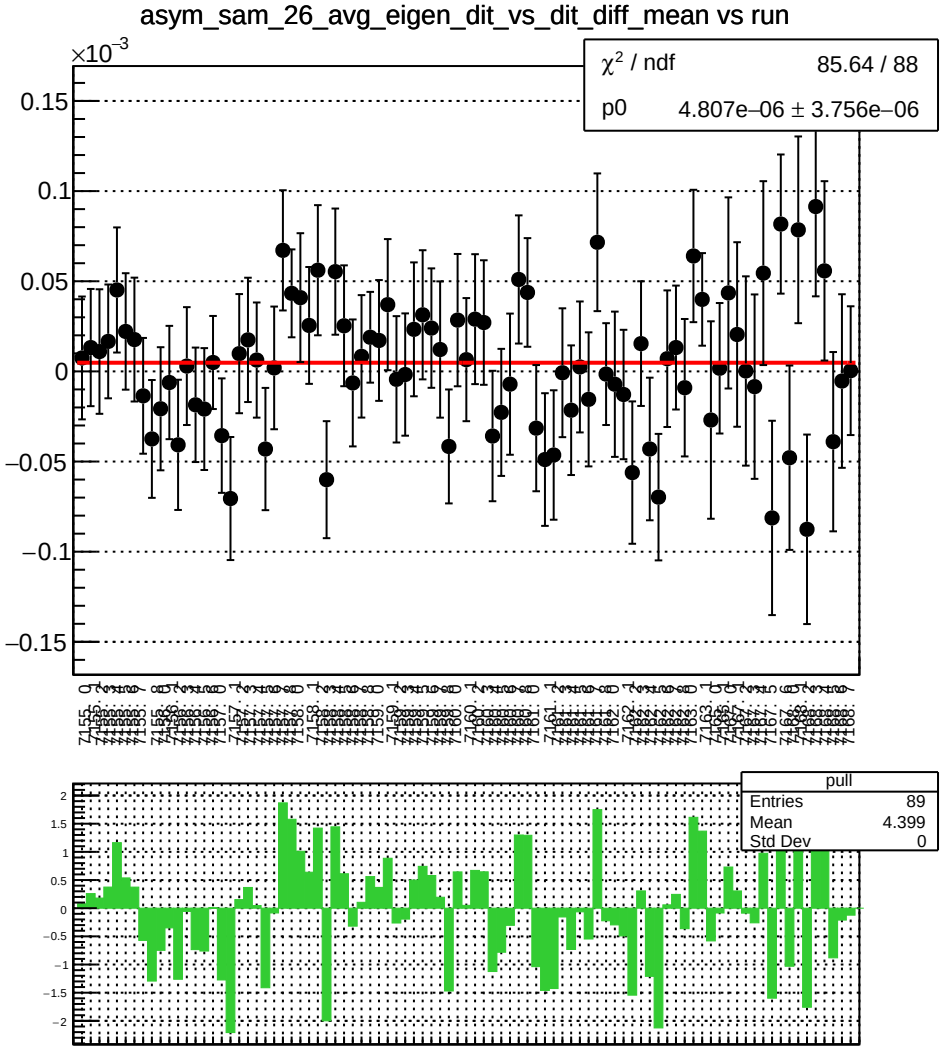

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 88
p0 −0.07129 ± 0.0523
pull
Entries 89
Mean 253.7
Std Dev 0

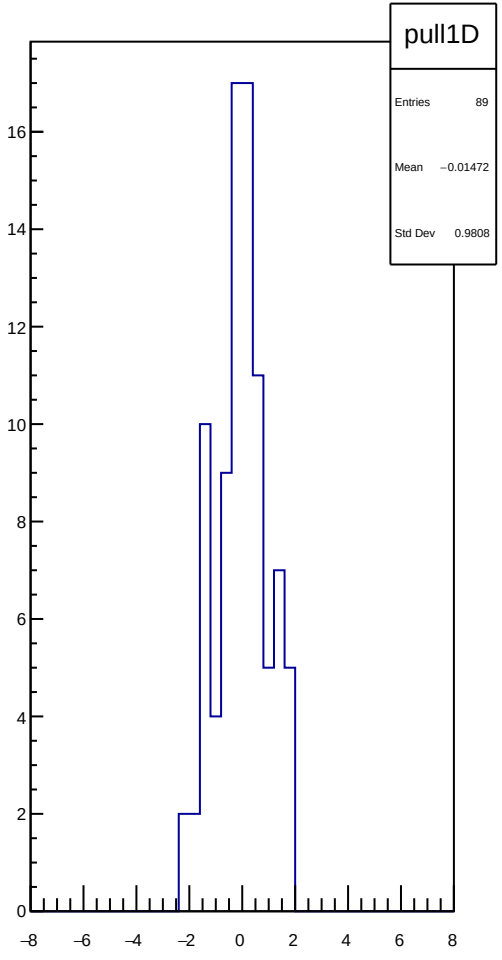

pull1D
Entries 89
Mean −0.01031
Std Dev 0.9401

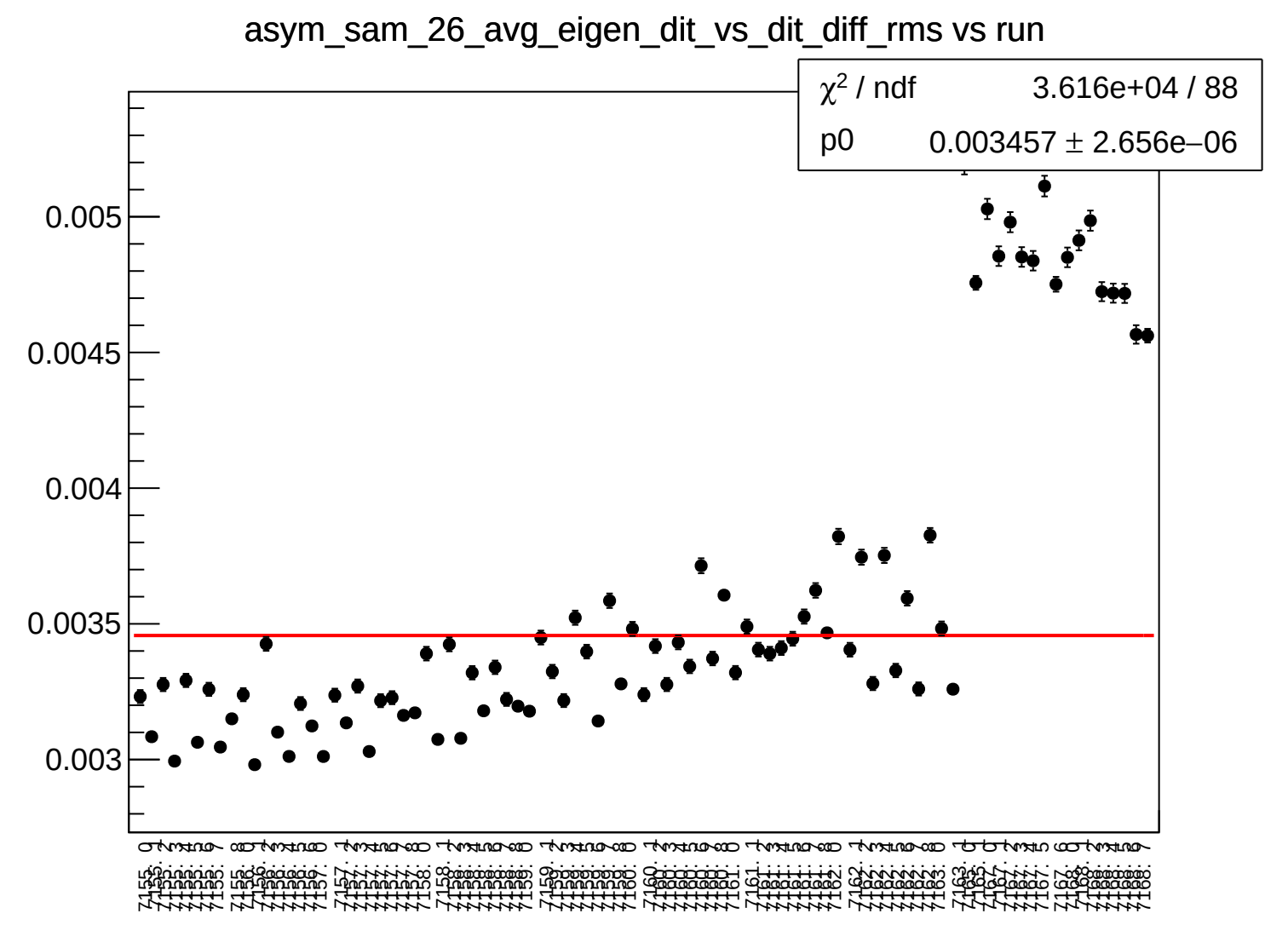

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.463e+04 / 88
p0 48.15 ± 0.03698
90
80
70
60
50
40

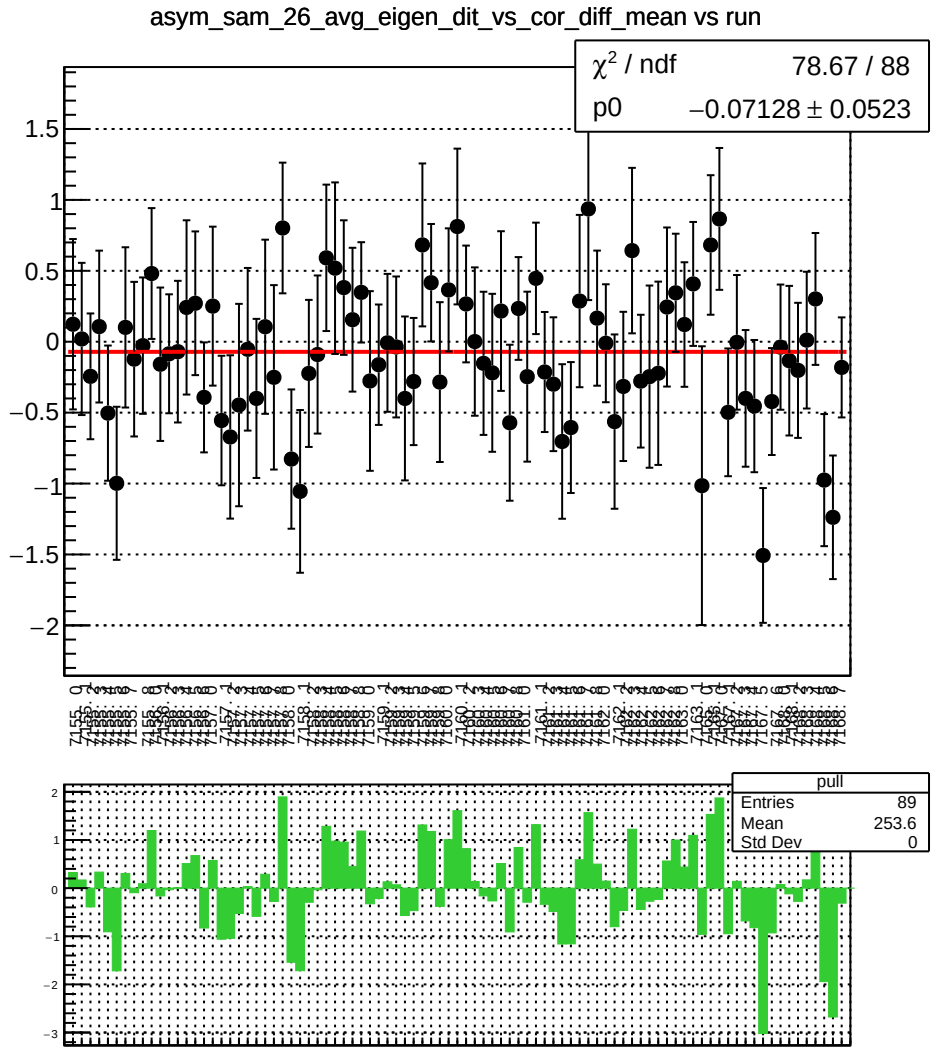

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 88
p0 −0.07129 ± 0.0523
pull
Entries 89
Mean 253.7
Std Dev 0
pull1D
Entries 89
Mean −0.01031
Std Dev 0.9401

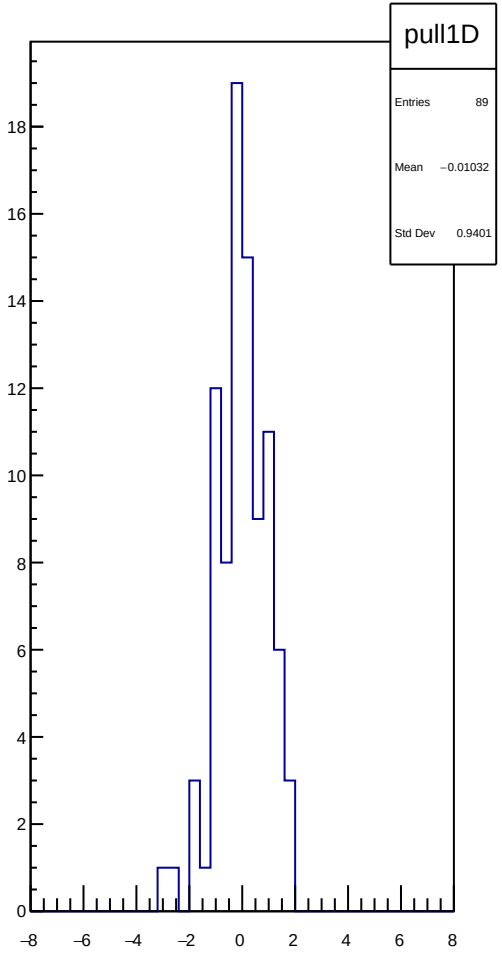

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.463e+04 / 88
p0 48.15 ± 0.03698
90
80
70
60
50
40

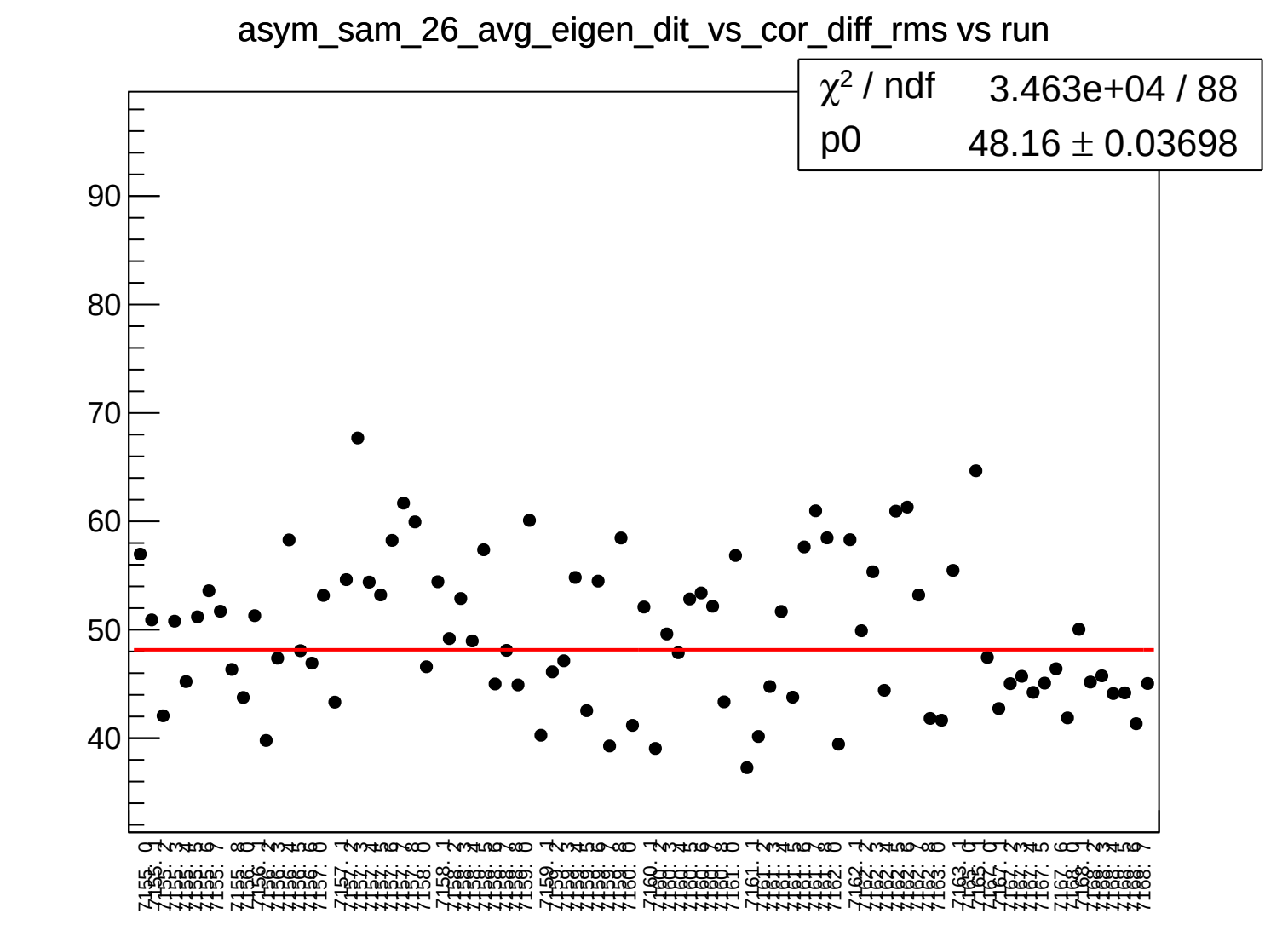

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.64 / 88
p0 4.807e−06 ± 3.756e−06
pull
Entries 89
Mean 4.399
Std Dev 0

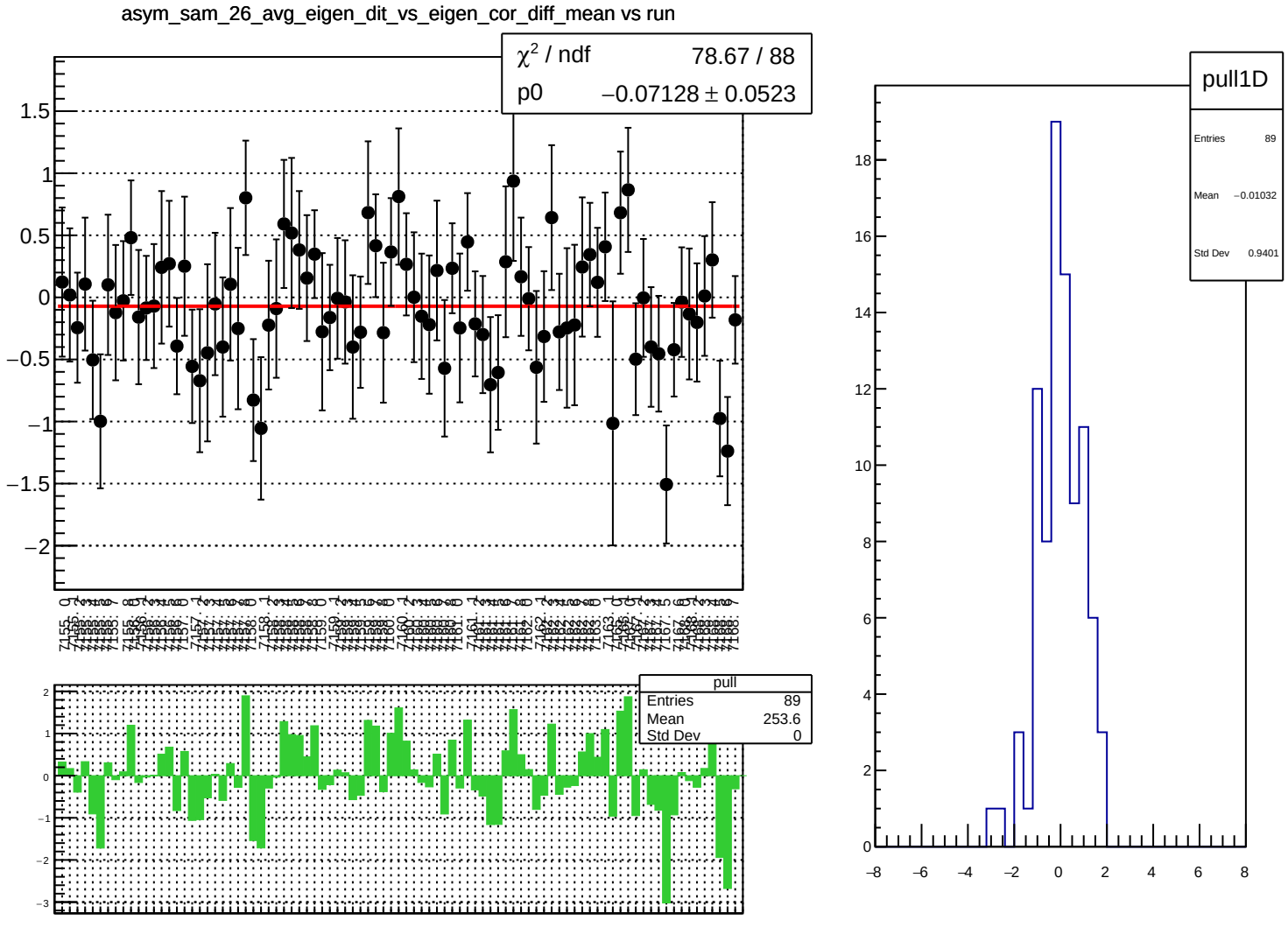

pull1D
Entries 89
Mean −0.01472
Std Dev 0.9808

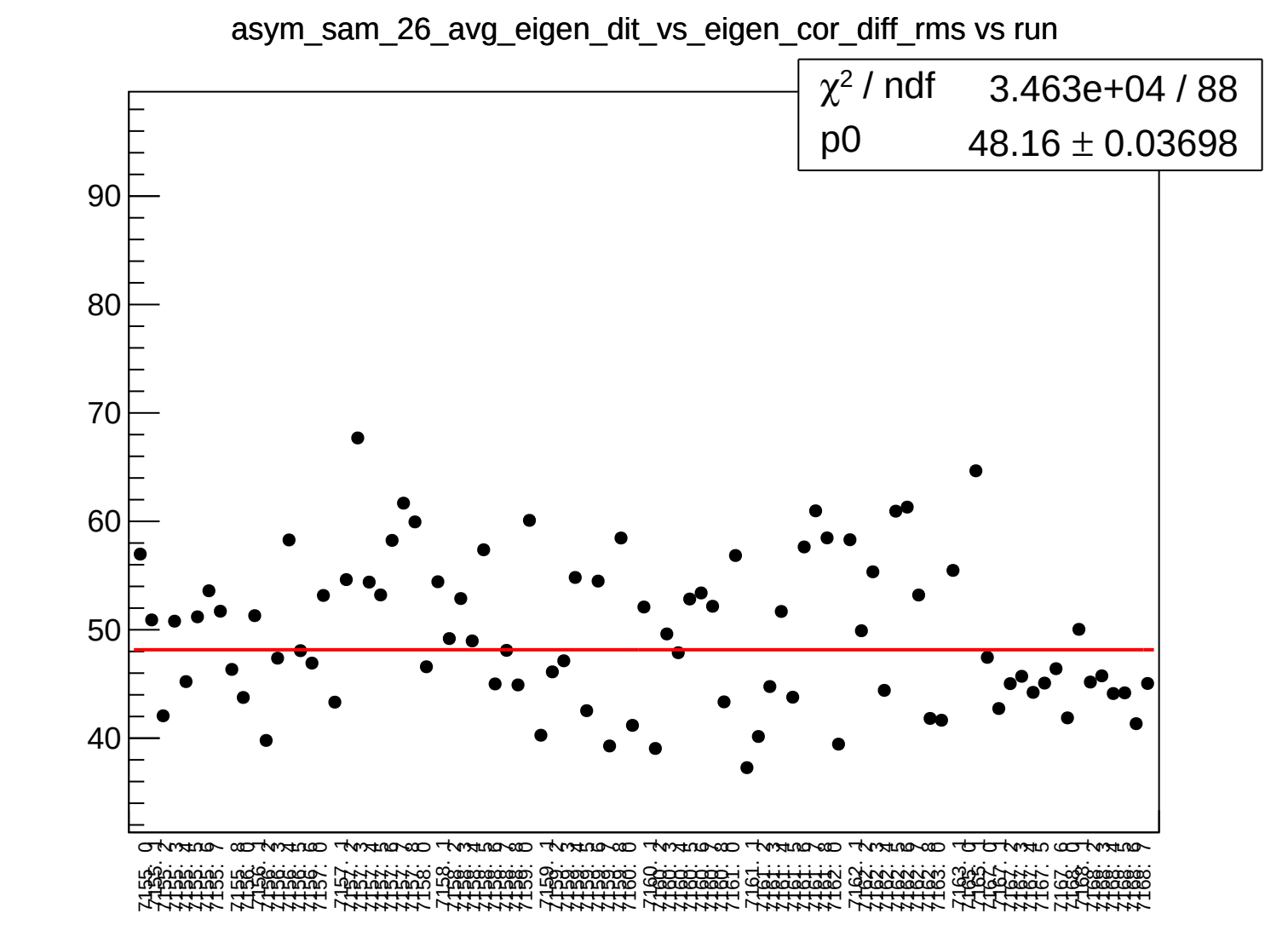

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.616e+04 / 88
p0 0.003457 ± 2.656e−06
0.005
0.0045
0.004
0.0035
0.003

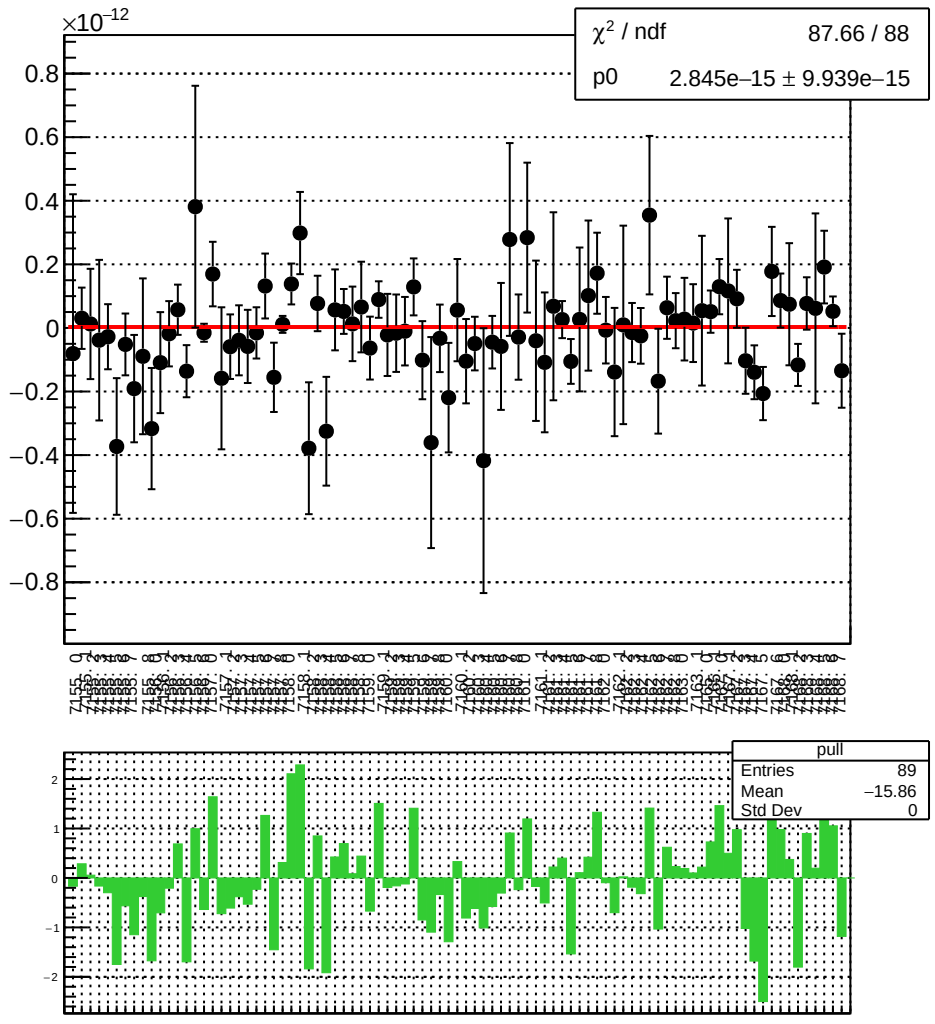

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.67 / 88
p0 −0.07128 ± 0.0523
pull
Entries 89
Mean 253.6
Std Dev 0

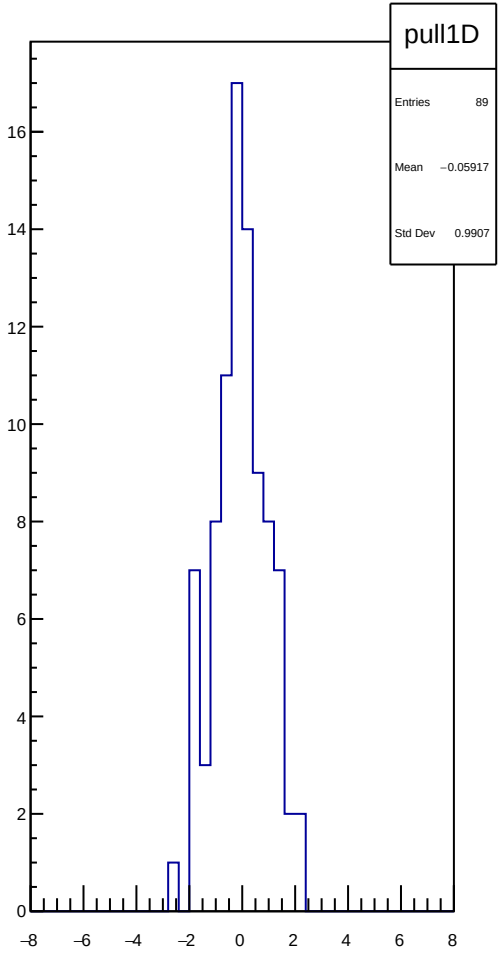

pull1D
Entries 89
Mean −0.01032
Std Dev 0.9401

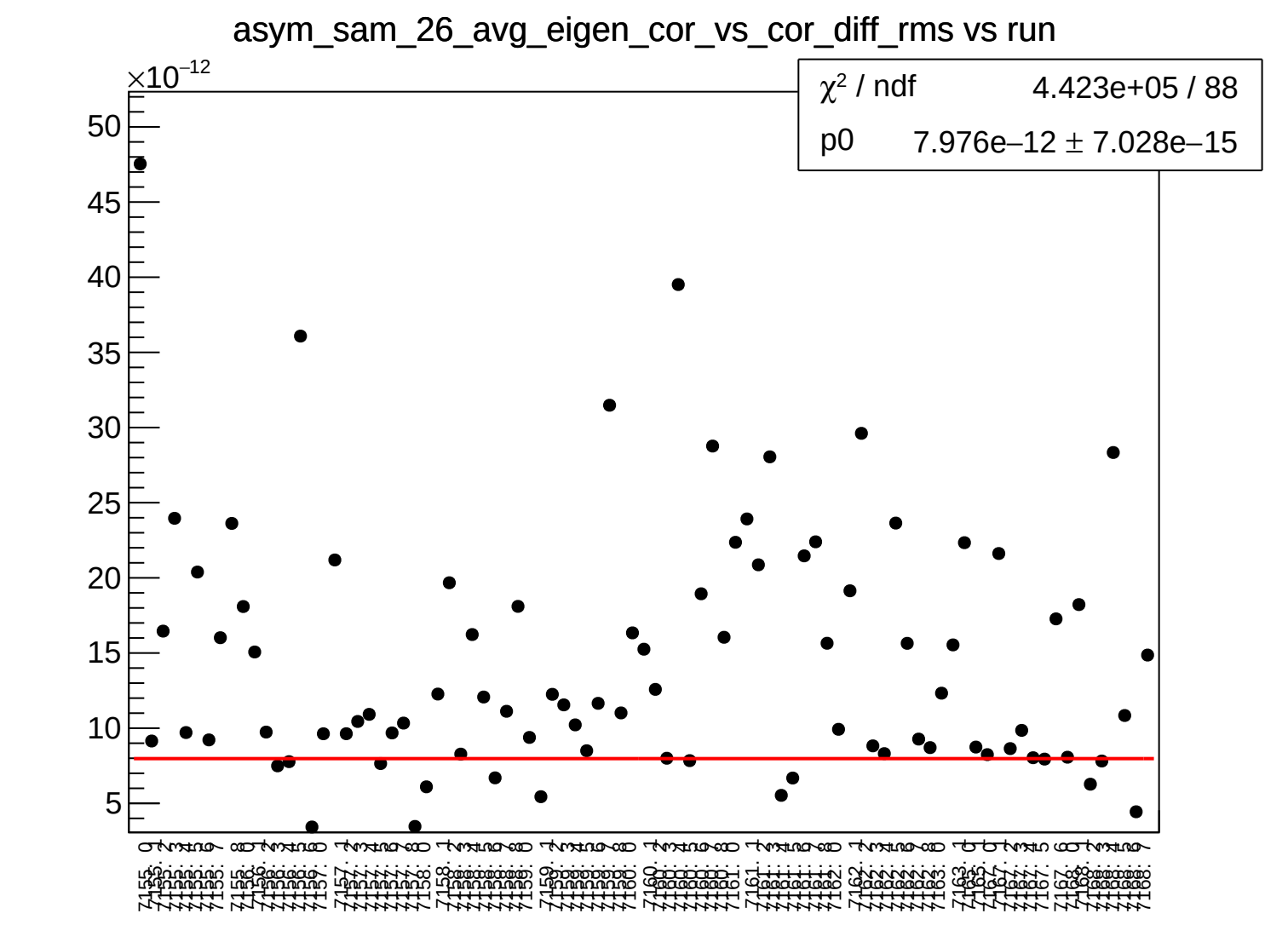

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.463e+04 / 88
p0 48.16 ± 0.03698
90
80
70
60
50
40

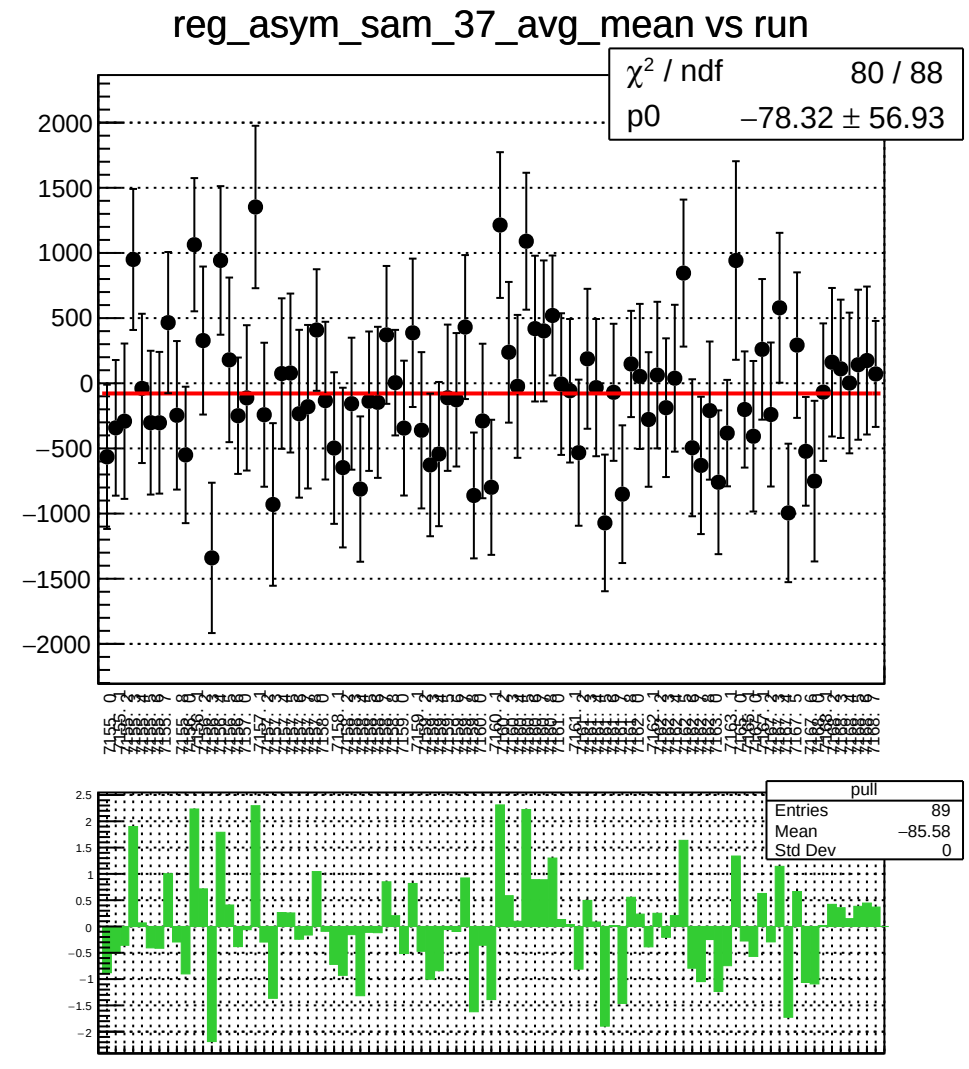

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.67 / 88
p0 −0.07128 ± 0.0523
pull
Entries 89
Mean 253.6
Std Dev 0
pull1D
Entries 89
Mean −0.01032
Std Dev 0.9401

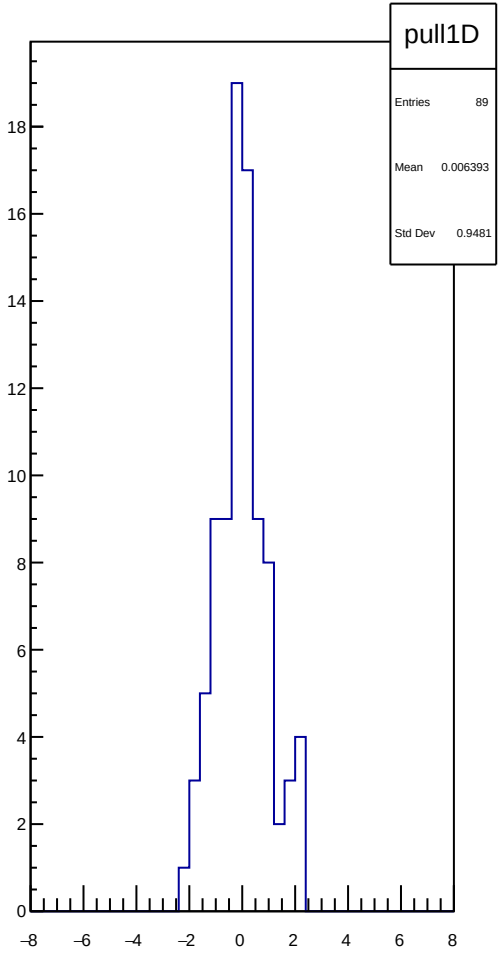

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.463e+04 / 88
p0 48.16 ± 0.03698
90
80
70
60
50
40

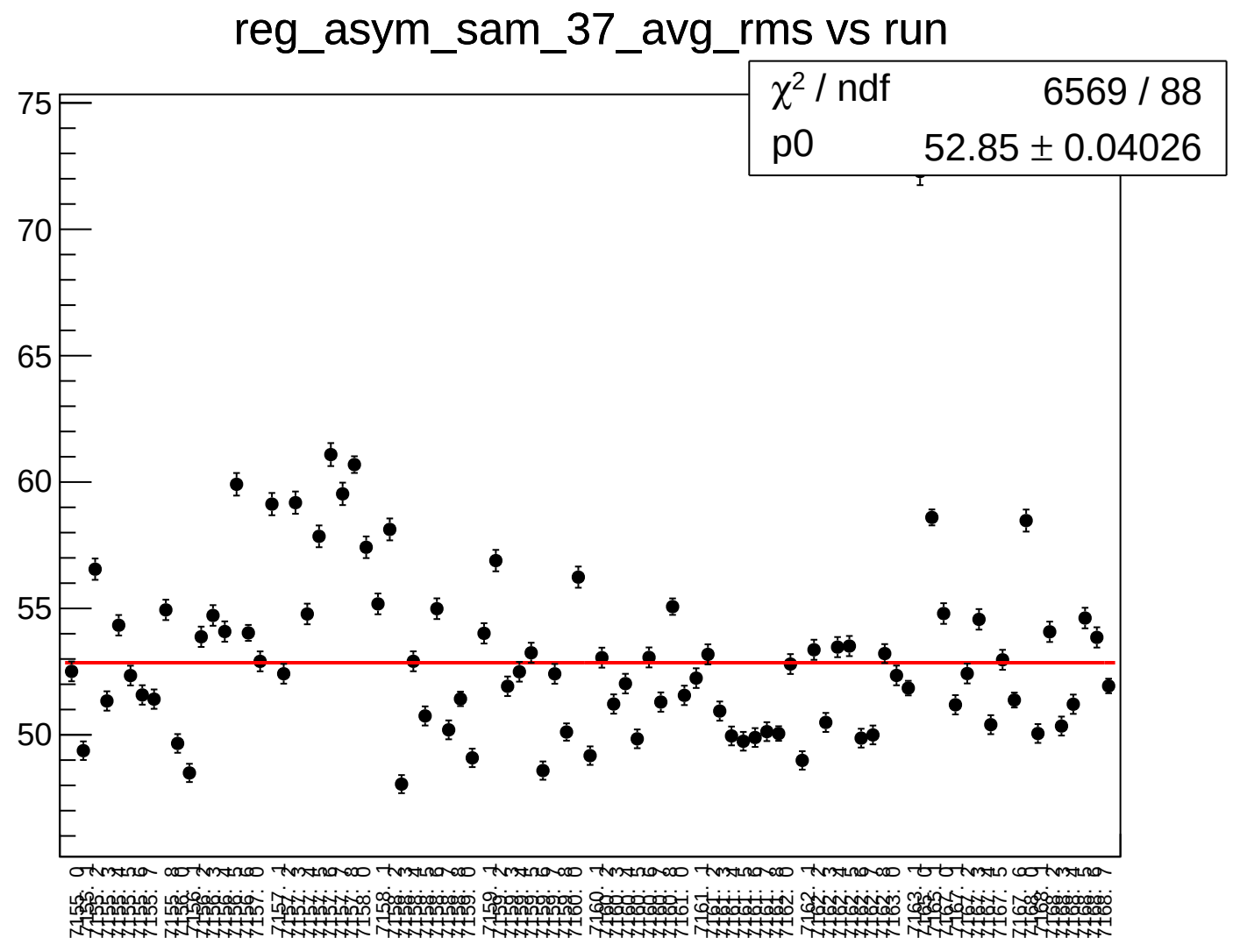

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 87.66 / 88
p0 2.845e−15 ± 9.939e−15
pull
Entries 89
Mean −15.86
Std Dev 0

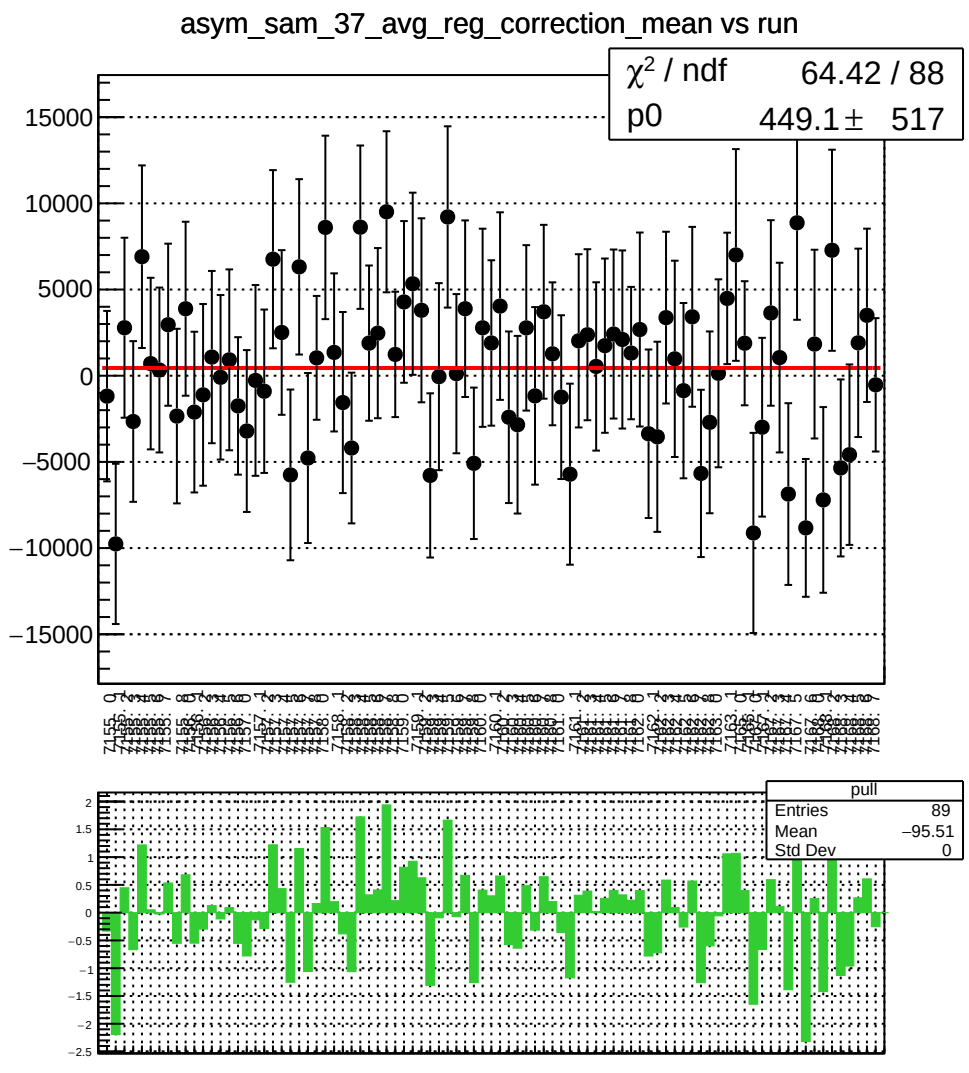

pull1D
Entries 89
Mean −0.05917
Std Dev 0.9907

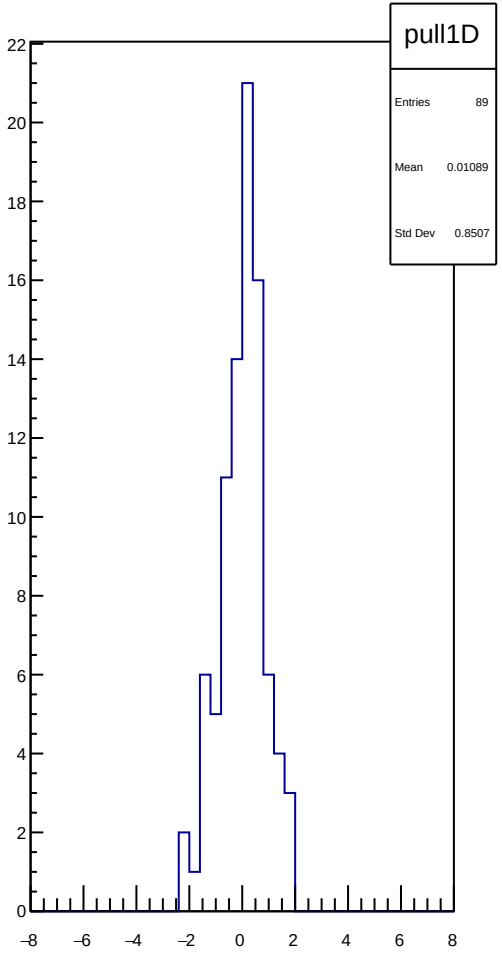

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.423e+05 / 88
p0 7.976e−12 ± 7.028e−15
50
45
40
35
30
25
20
15
10
5

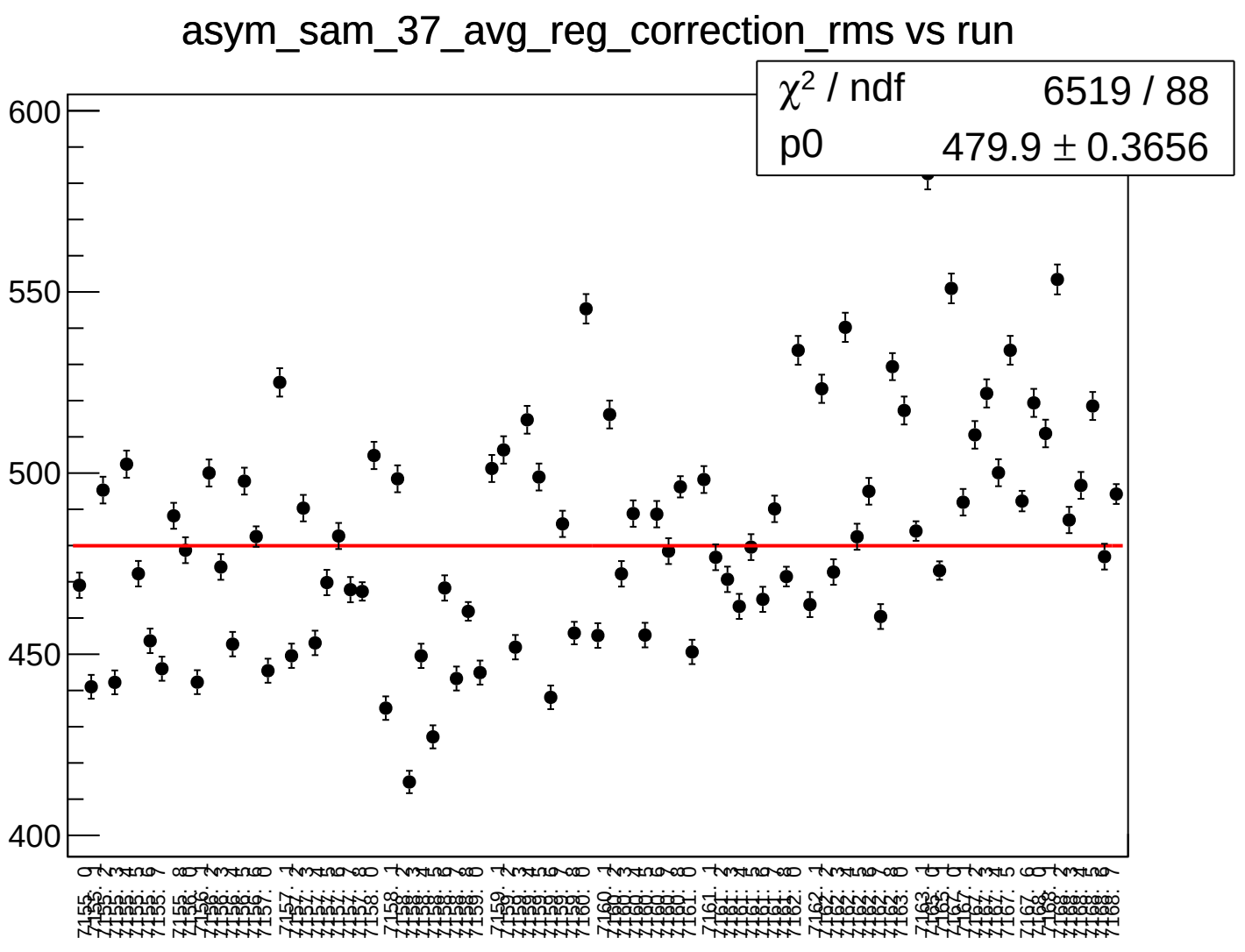

reg_asym_sam_37_avg_mean vs run
χ² / ndf 80 / 88
p0 −78.32 ± 56.93
pull
Entries 89
Mean −85.58
Std Dev 0

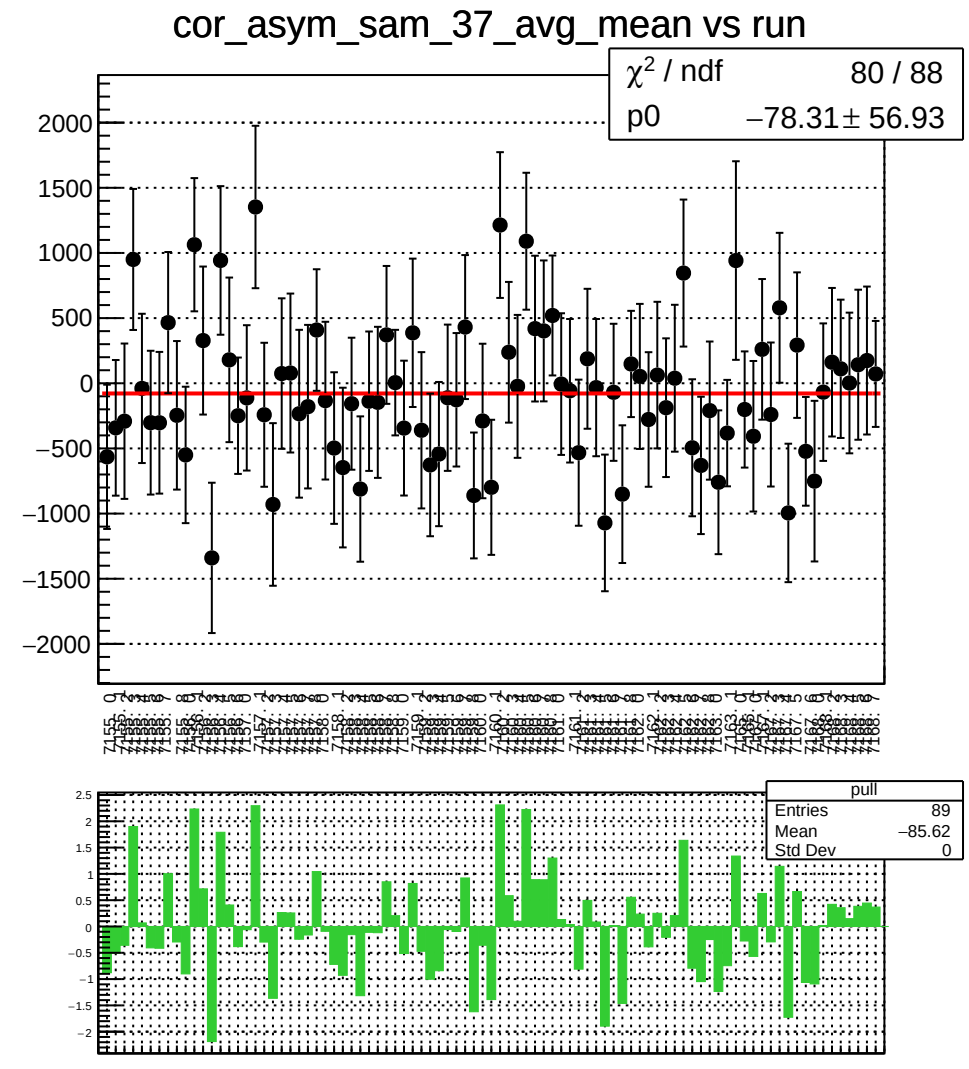

pull1D
Entries 89
Mean 0.006393
Std Dev 0.9481

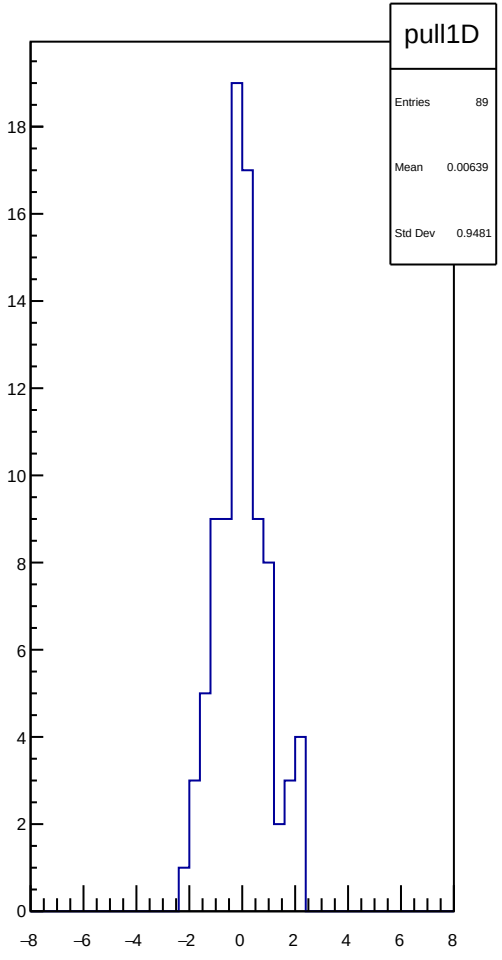

reg_asym_sam_37_avg_rms vs run
χ² / ndf 6569 / 88
p0 52.85 ± 0.04026
75
70
65
60
55
50

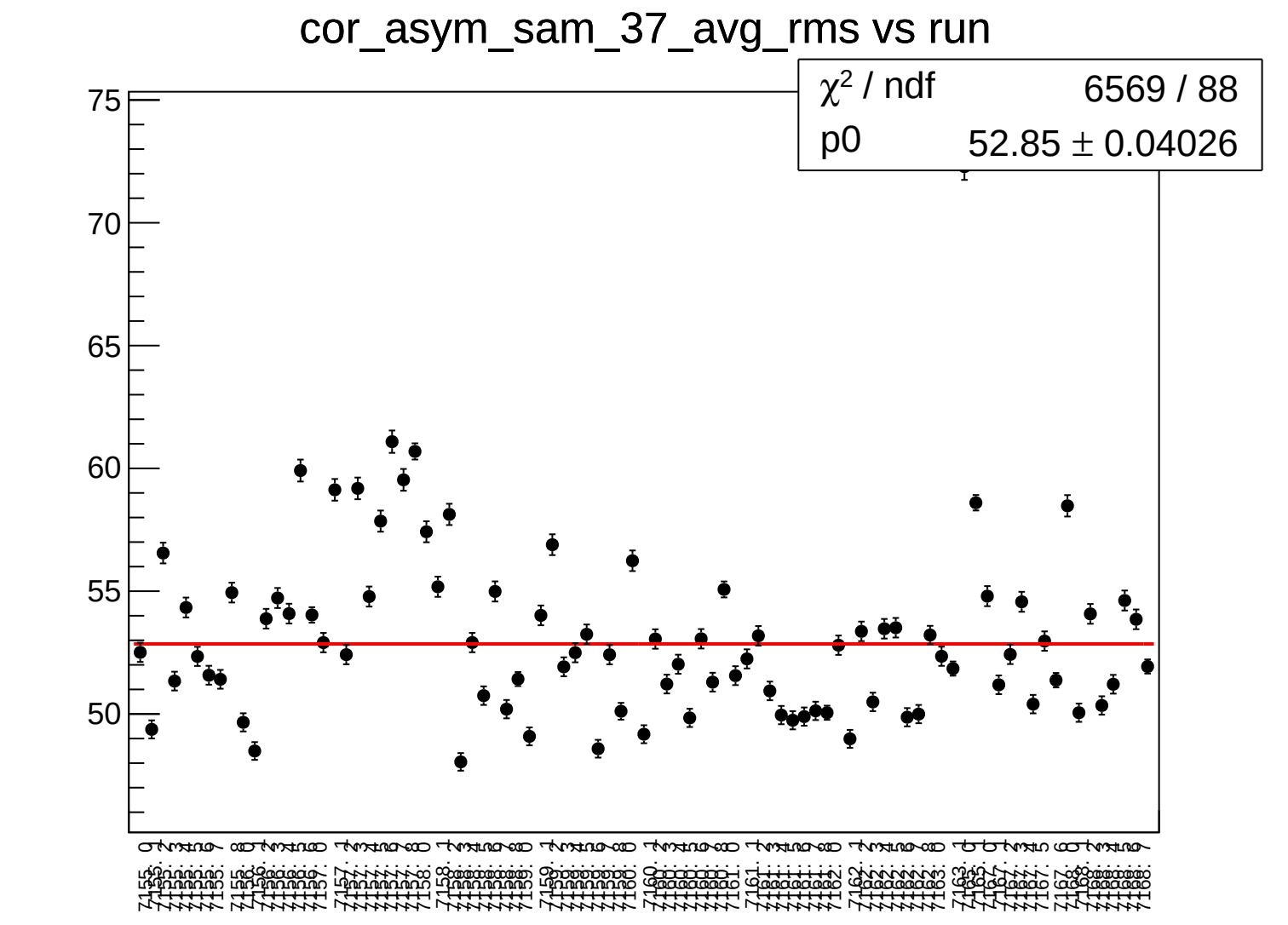

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 64.42 / 88
p0 449.1 ± 517
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −95.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

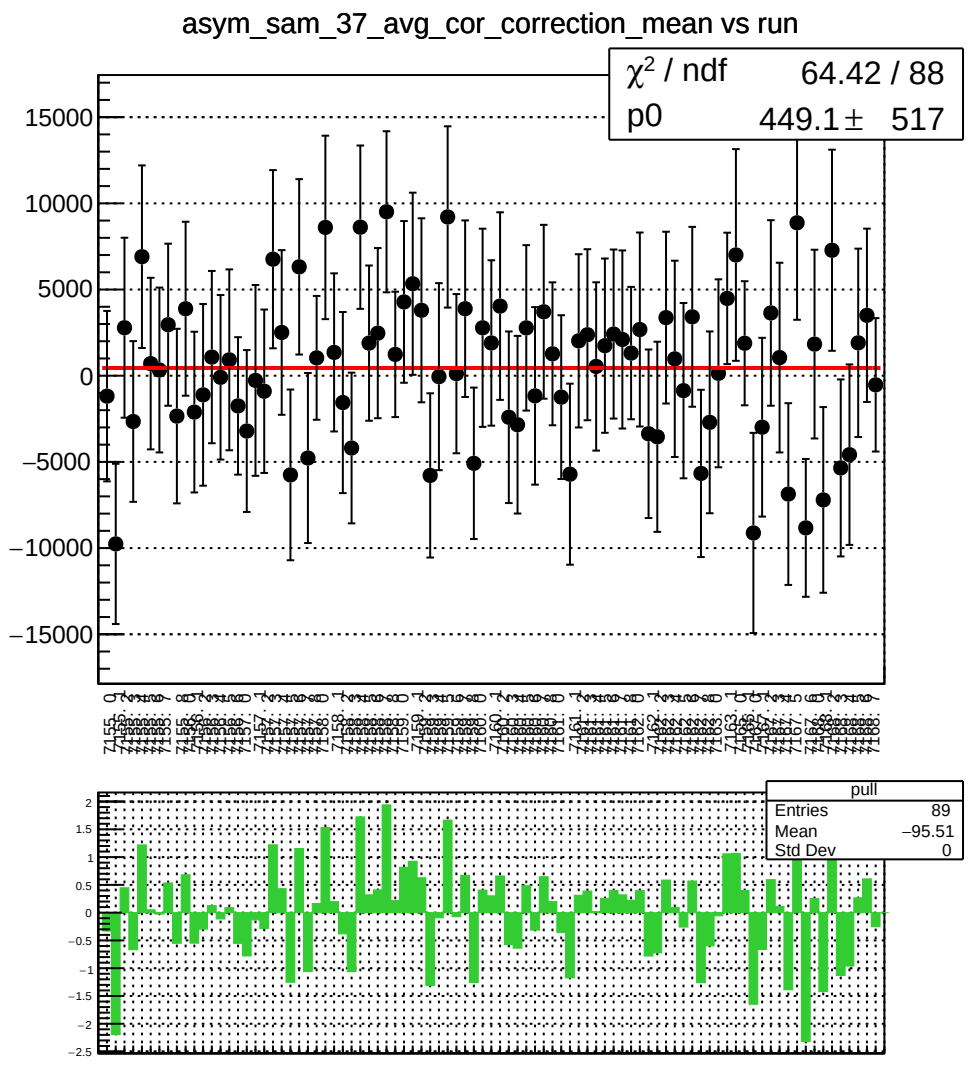

pull1D
Entries 89
Mean 0.01089
Std Dev 0.8507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

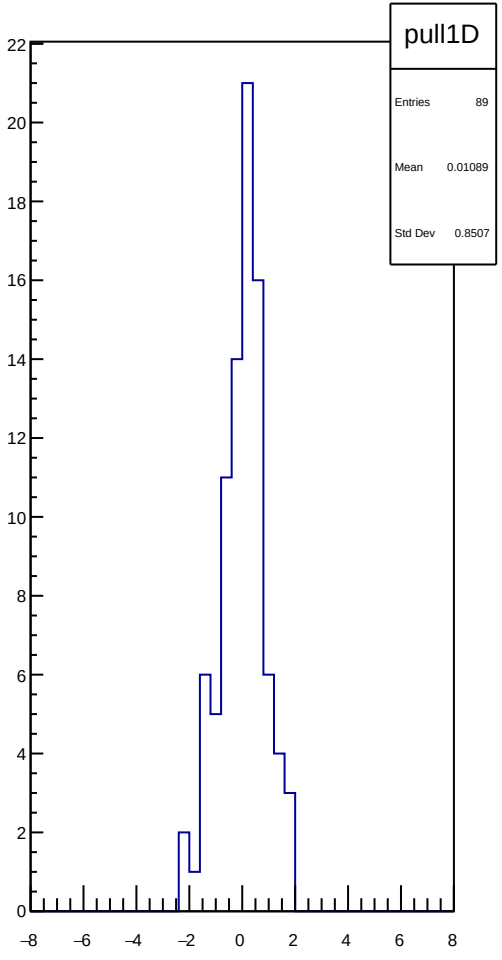

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 6519 / 88
p0 479.9 ± 0.3656
600
550
500
450
400

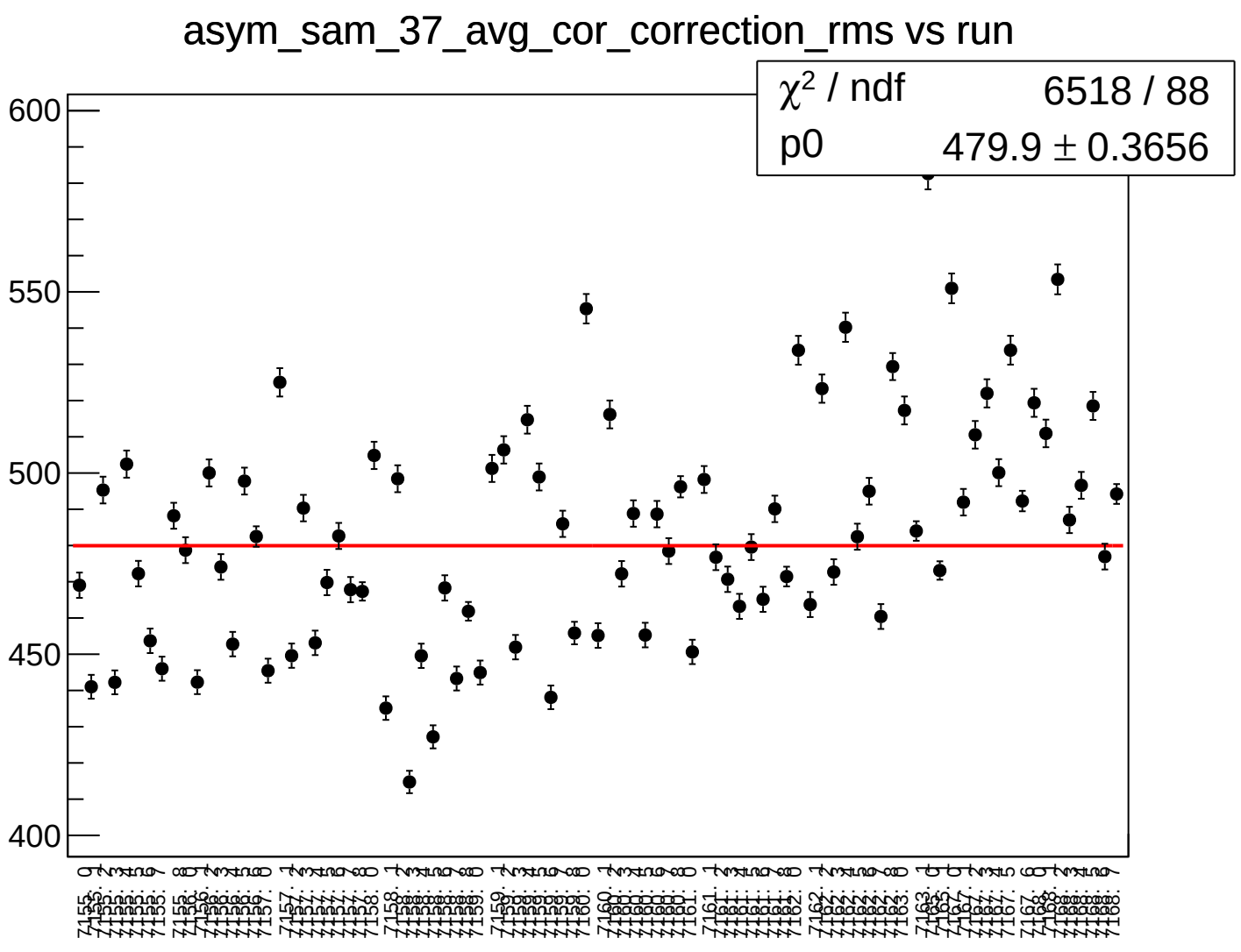

cor_asym_sam_37_avg_mean vs run
χ² / ndf 80 / 88
p0 −78.31 ± 56.93
pull
Entries 89
Mean −85.62
Std Dev 0

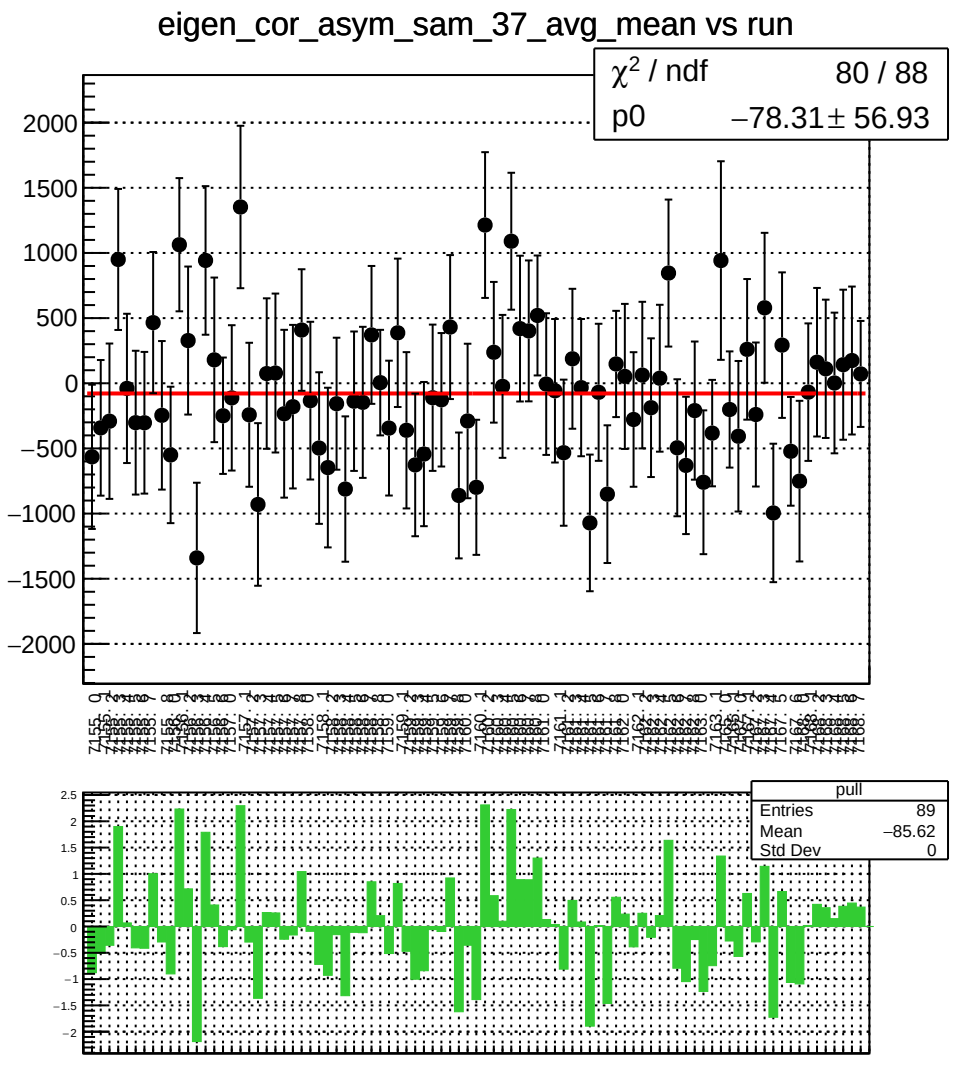

pull1D
Entries 89
Mean 0.00639
Std Dev 0.9481

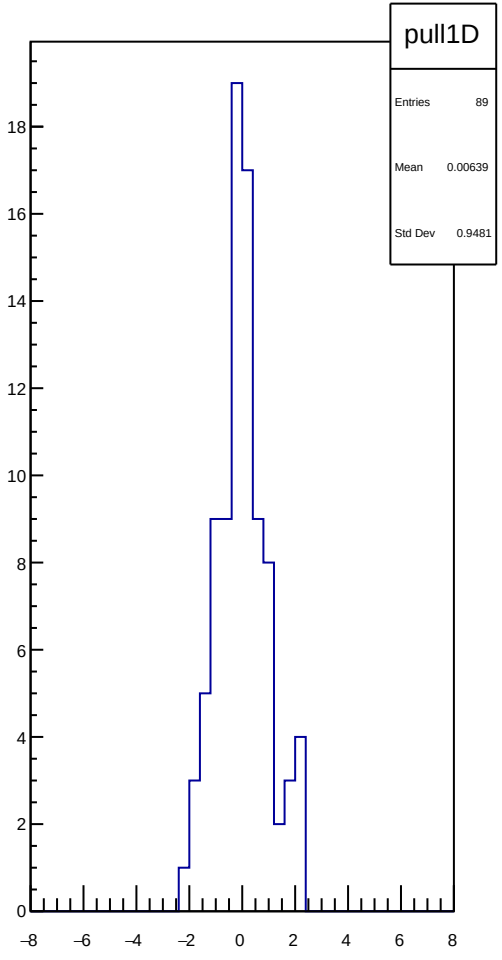

cor_asym_sam_37_avg_rms vs run
χ² / ndf 6569 / 88
p0 52.85 ± 0.04026
75
70
65
60
55
50

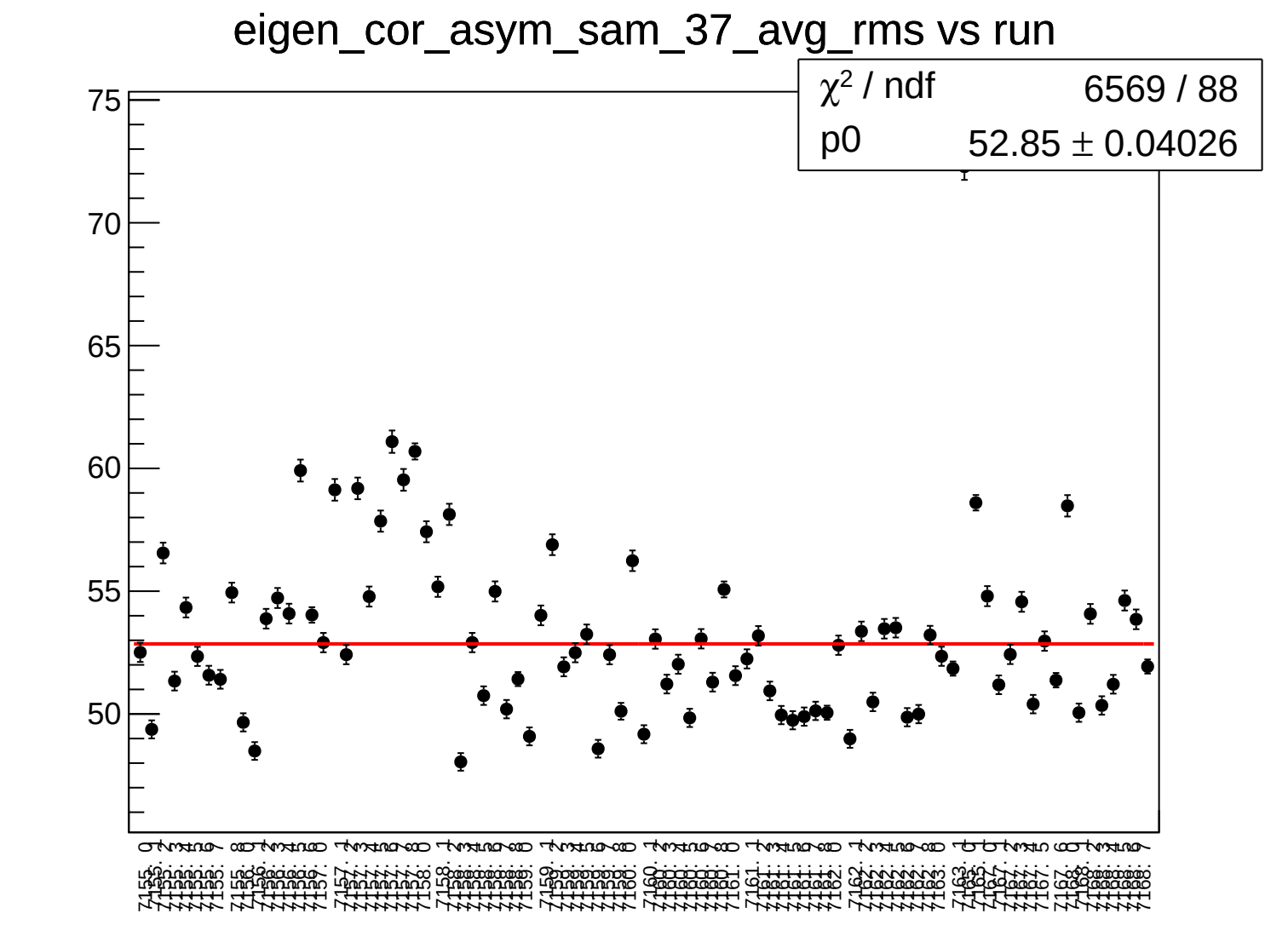

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 64.42 / 88
p0 449.1 ± 517
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −95.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

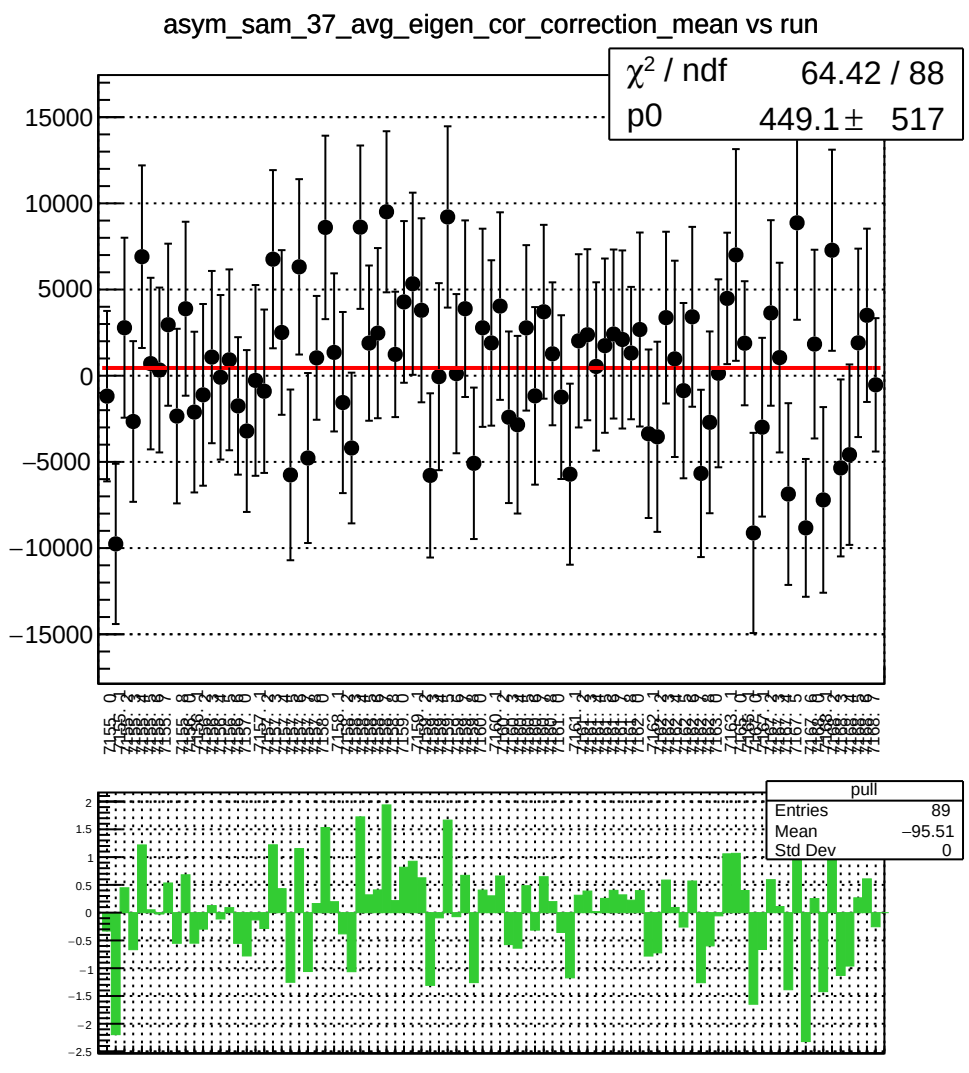

pull1D
Entries 89
Mean 0.01089
Std Dev 0.8507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

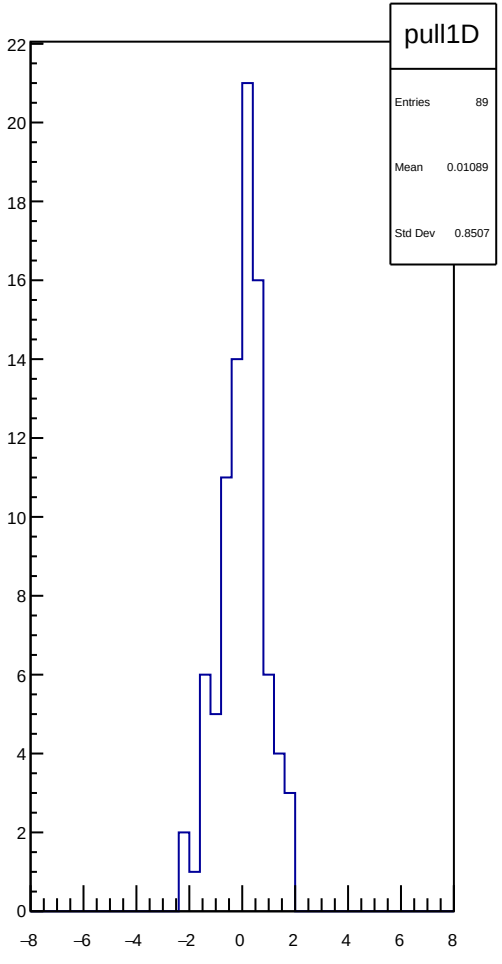

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 6518 / 88
p0 479.9 ± 0.3656
600
550
500
450
400

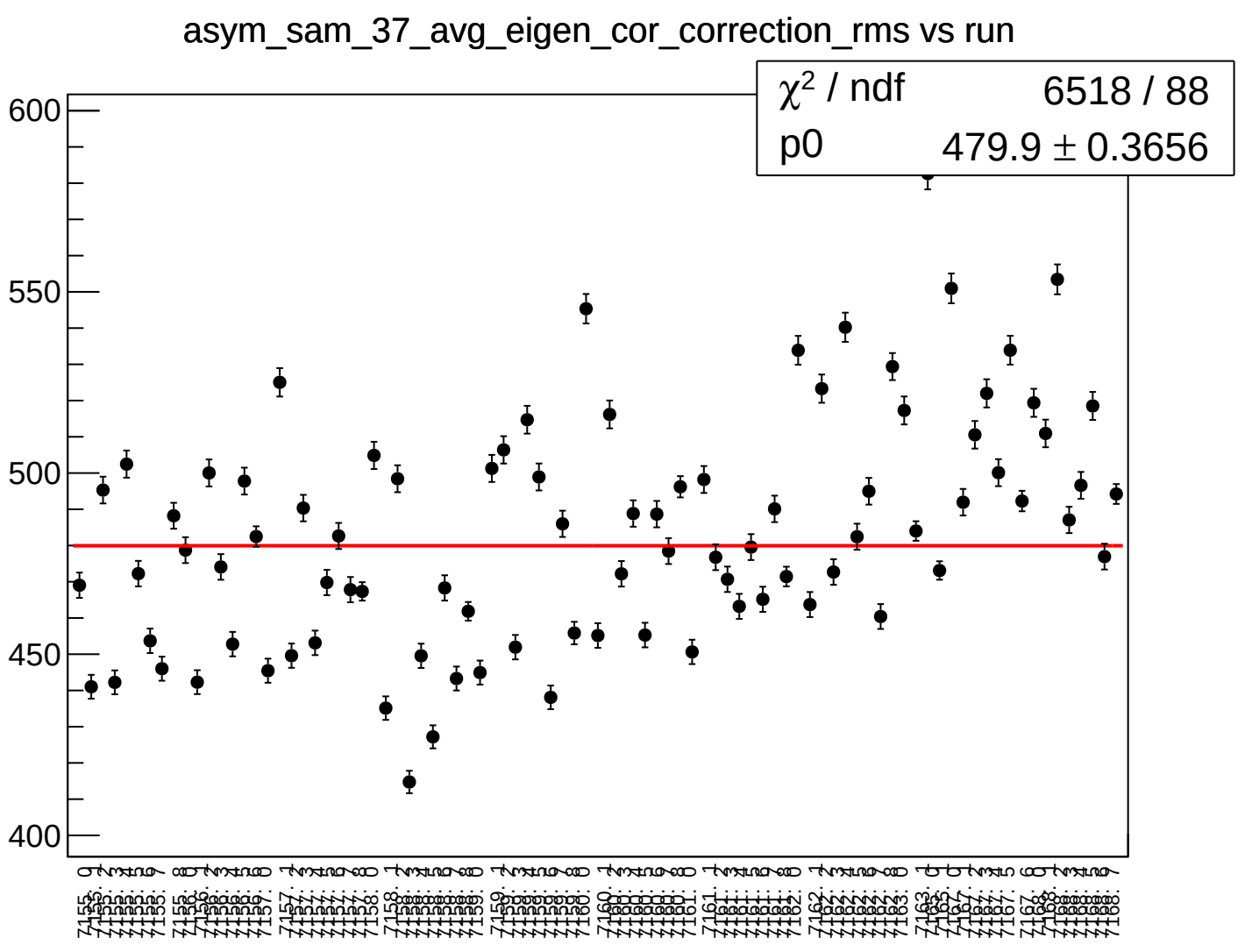

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 80 / 88
p0 −78.31 ± 56.93
pull
Entries 89
Mean −85.62
Std Dev 0

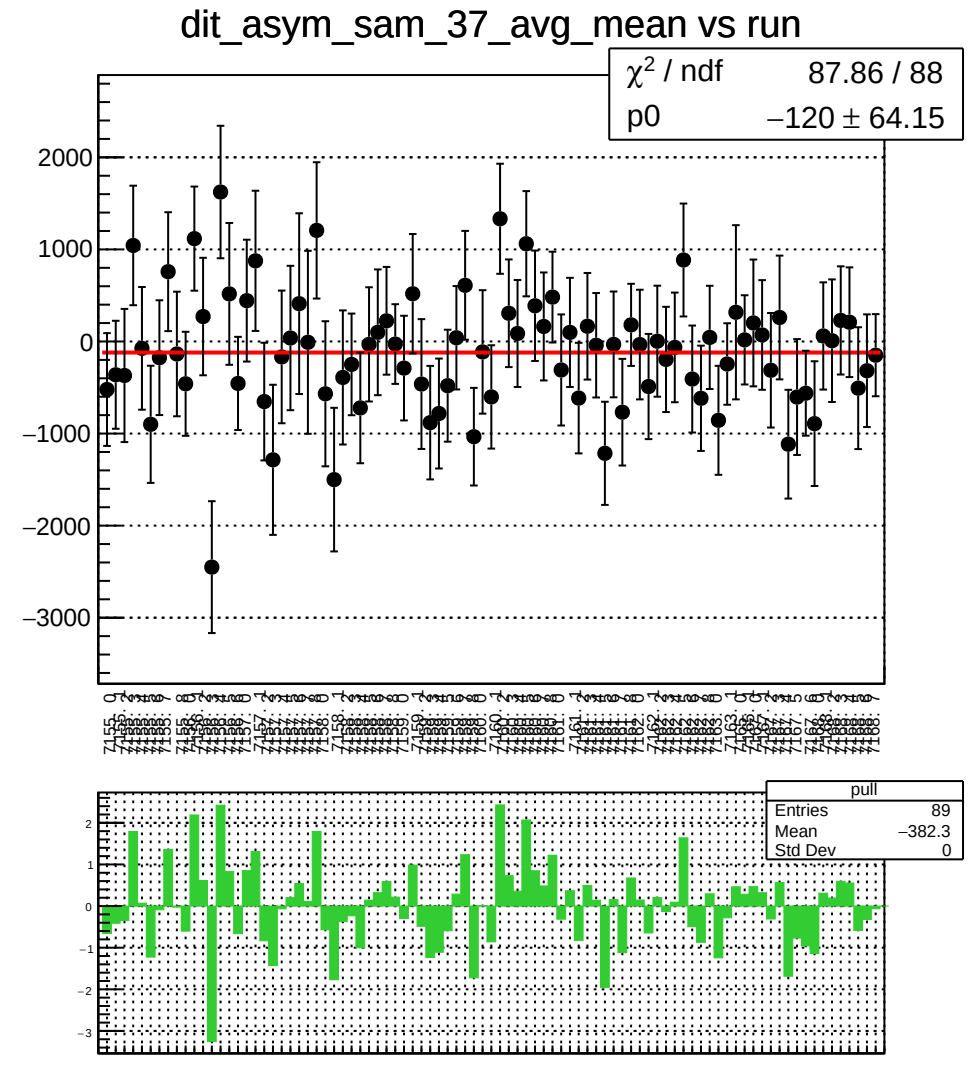

pull1D
Entries 89
Mean 0.00639
Std Dev 0.9481

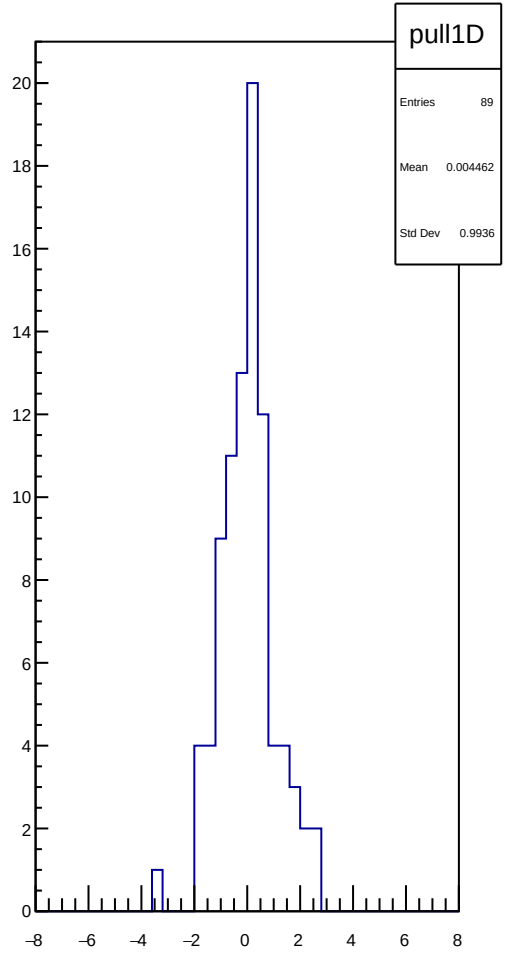

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 6569 / 88
p0 52.85 ± 0.04026
75
70
65
60
55
50

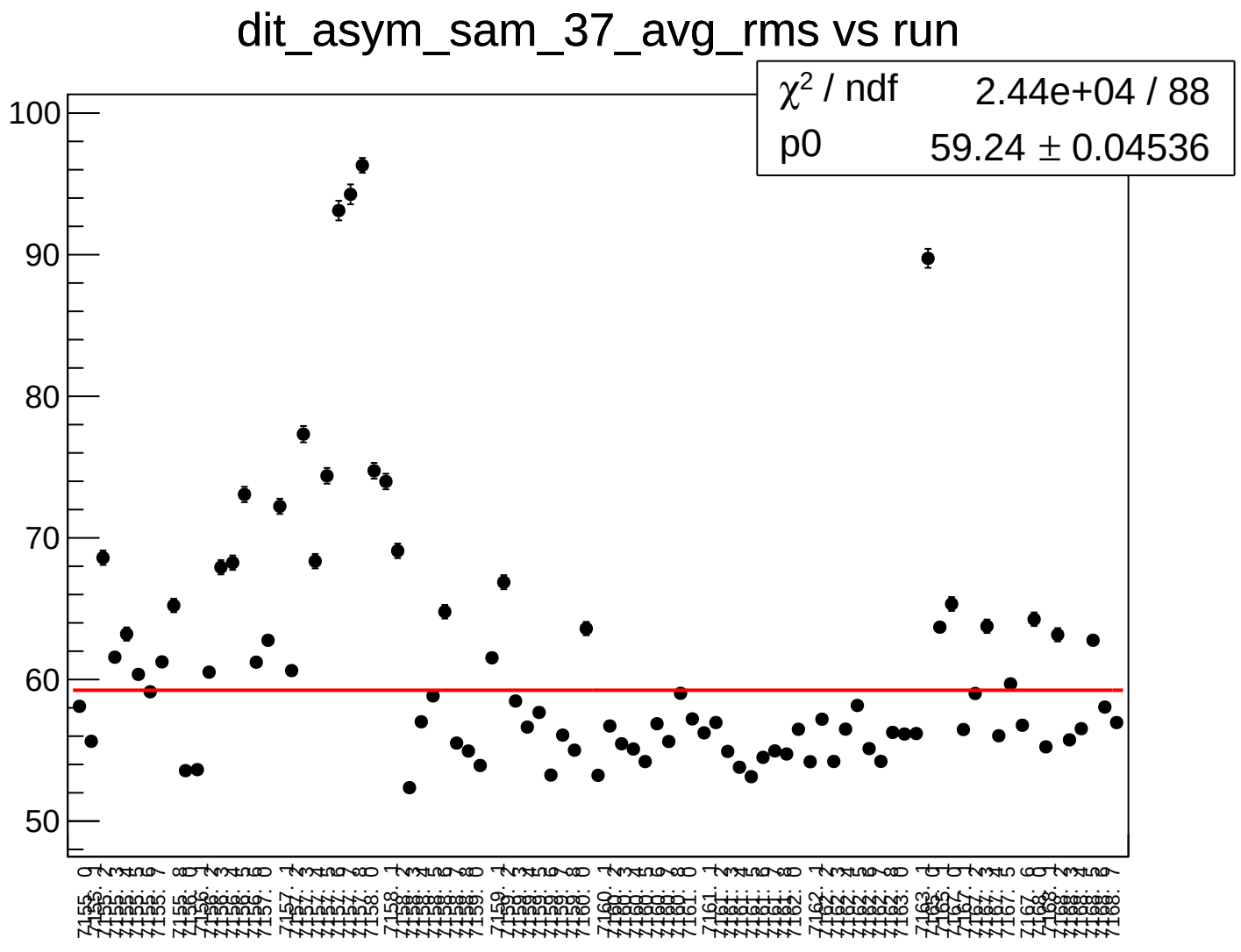

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.42 / 88
p0 449.1 ± 517
pull
Entries 89
Mean −95.51
Std Dev 0

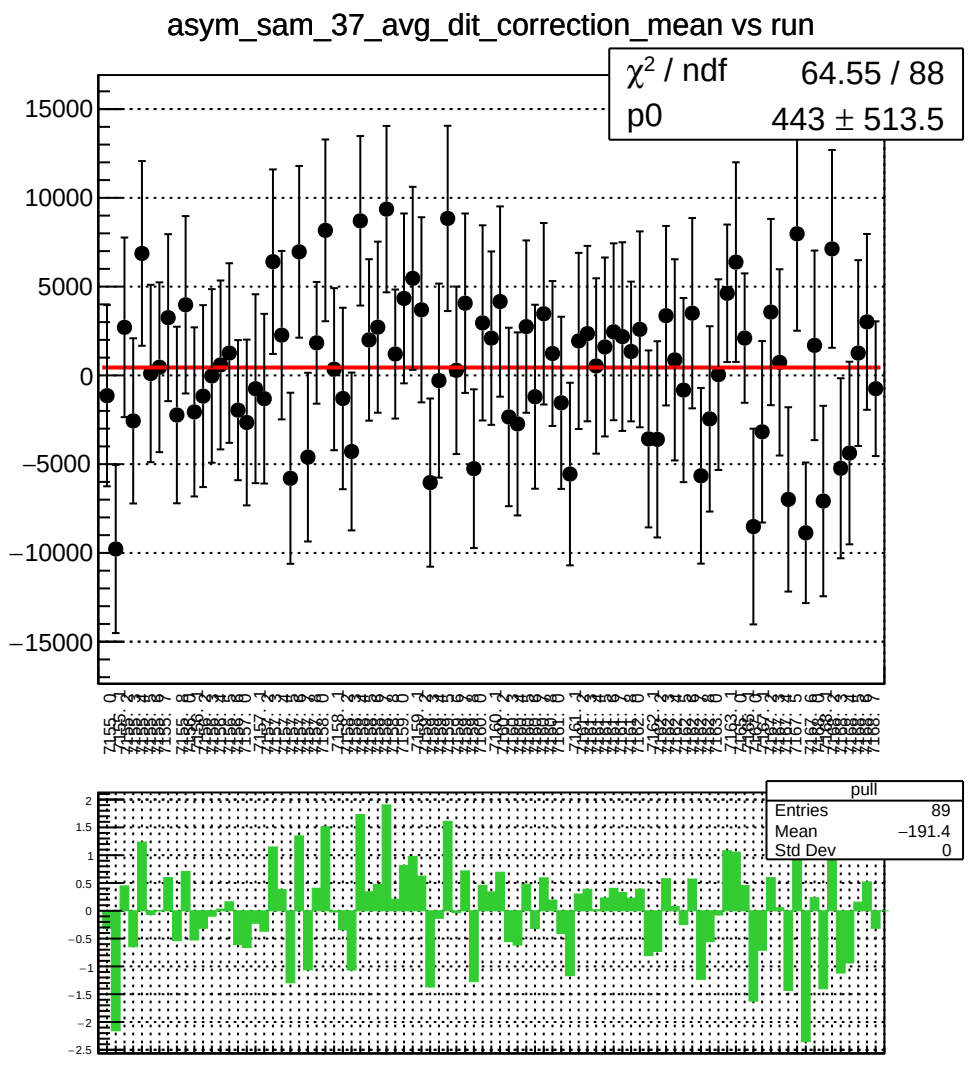

pull1D
Entries 89
Mean 0.01089
Std Dev 0.8507

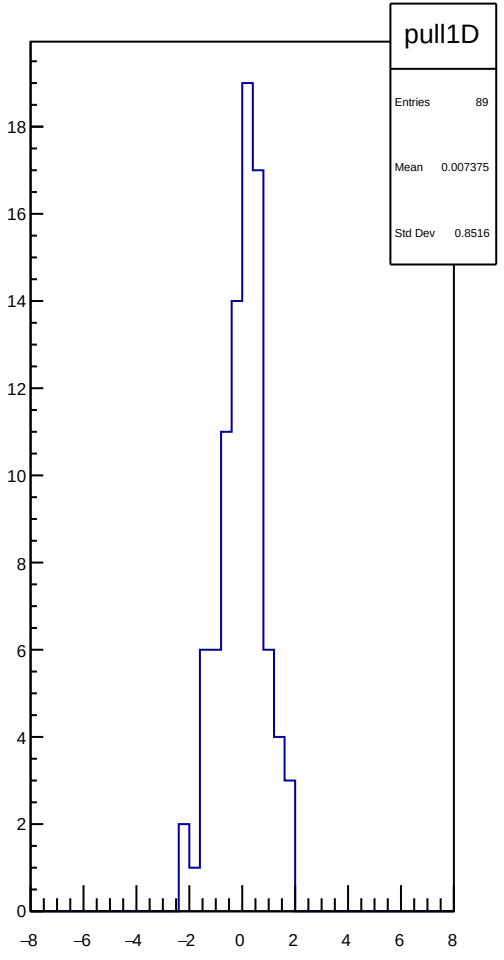

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 6518 / 88
p0 479.9 ± 0.3656
600
550
500
450
400

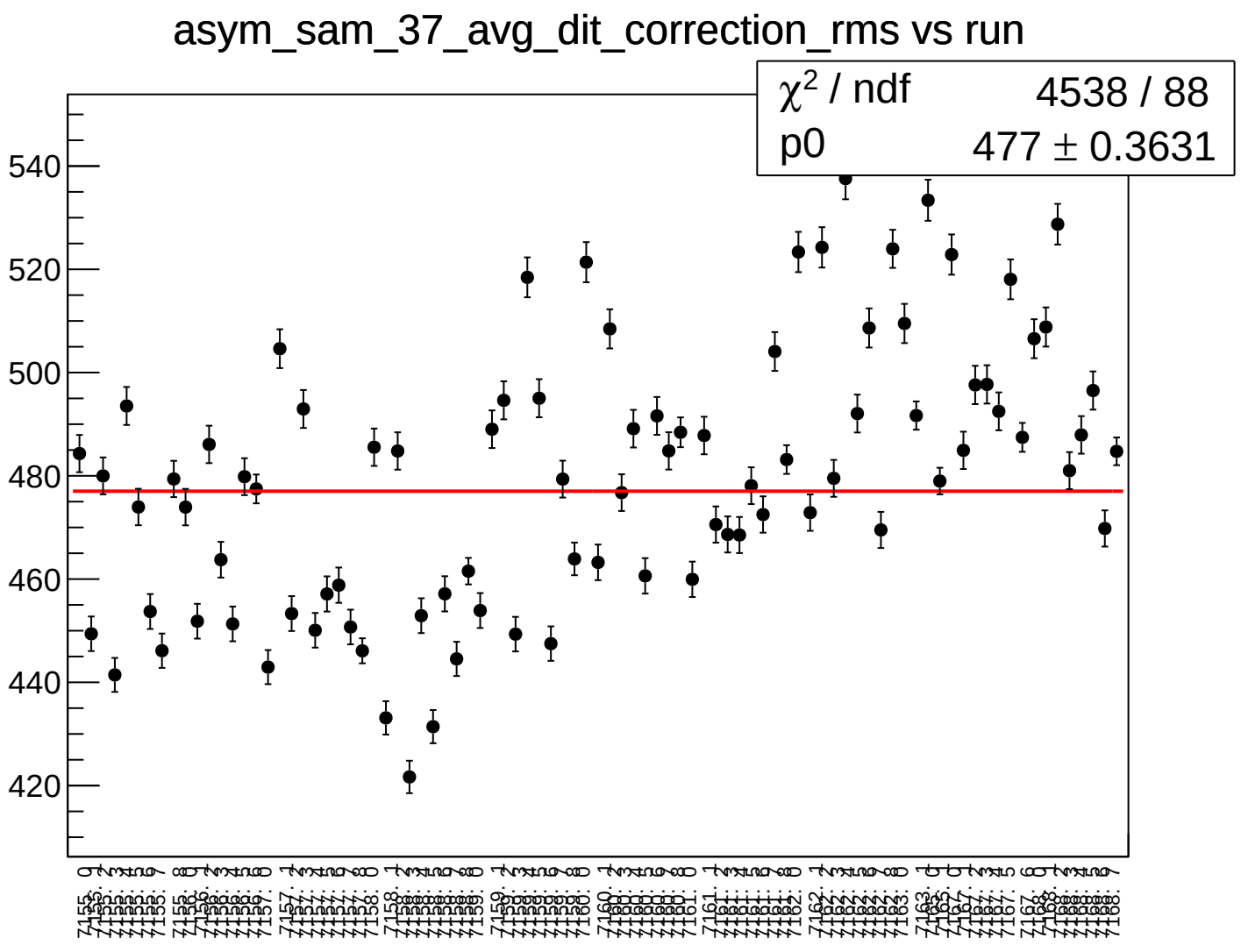

dit_asym_sam_37_avg_mean vs run
χ^2 / ndf 87.86 / 88
p0 −120 ± 64.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −382.3
Std Dev 0
2
1
0
−1
−2
−3

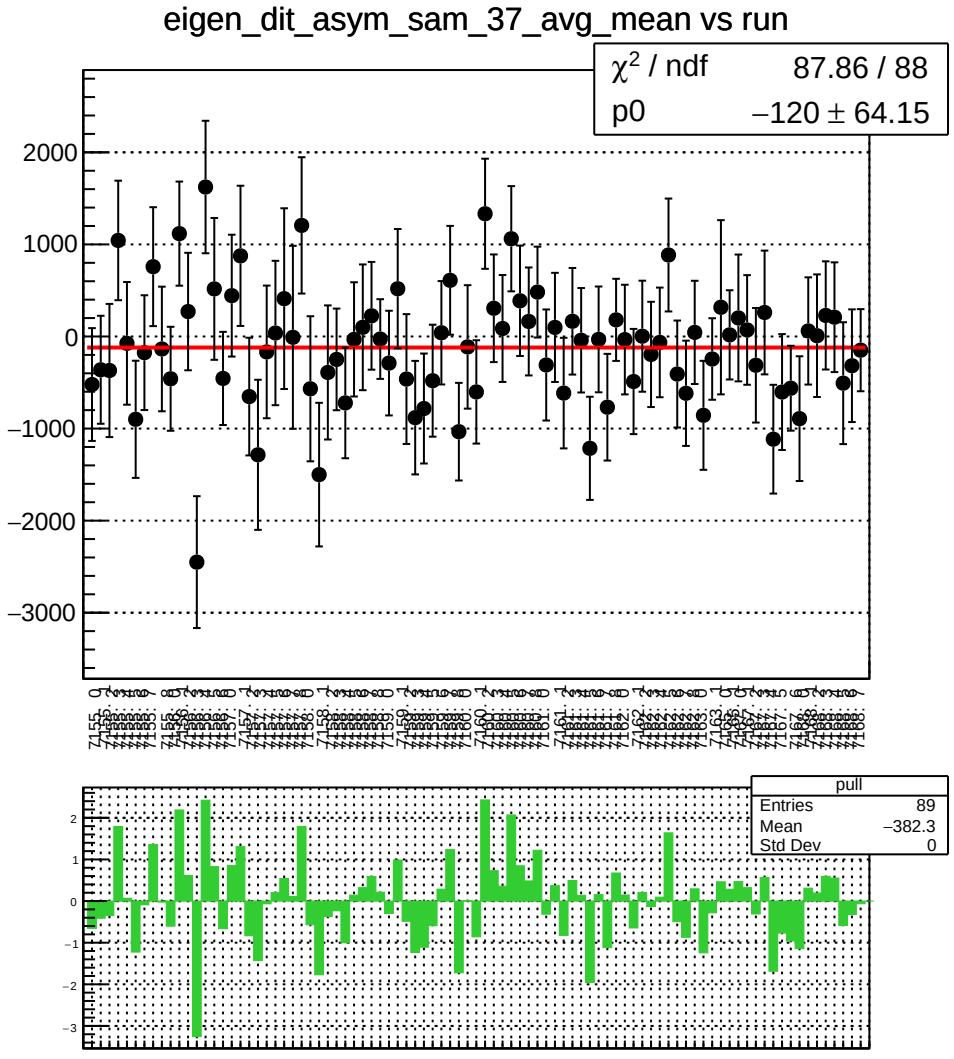

pull1D
Entries 89
Mean 0.004462
Std Dev 0.9936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

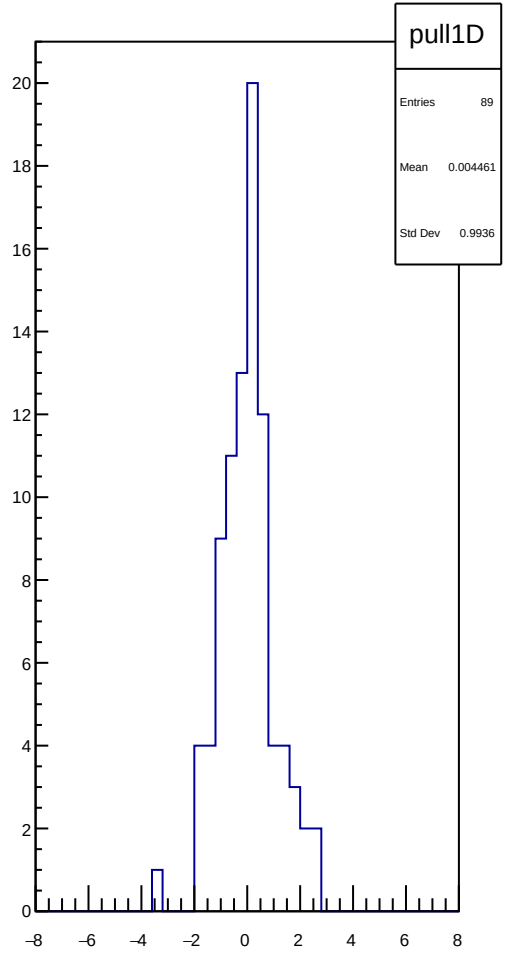

dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.44e+04 / 88
p0 59.24 ± 0.04536
100
90
80
70
60
50

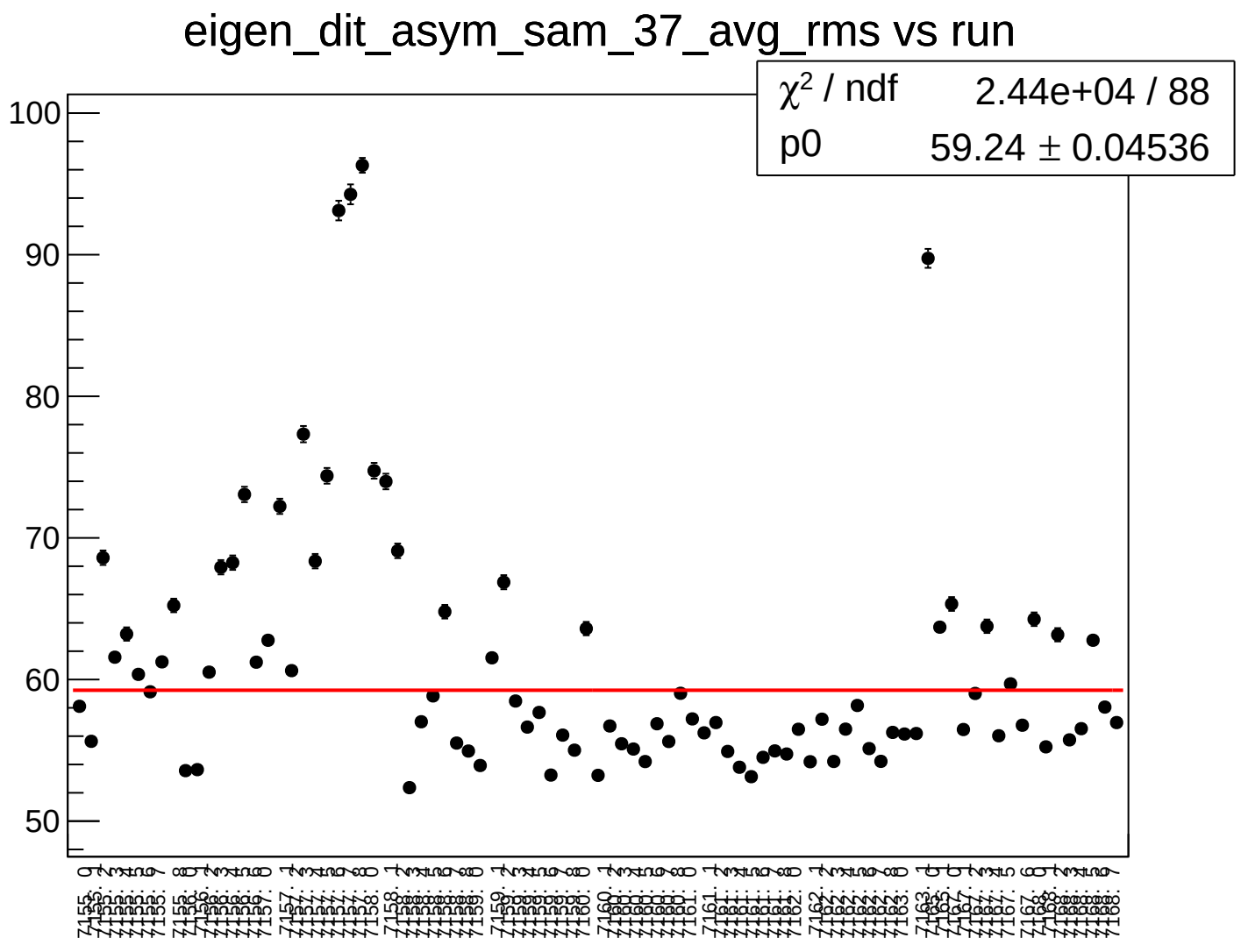

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 64.55 / 88
p0 443 ± 513.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −191.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

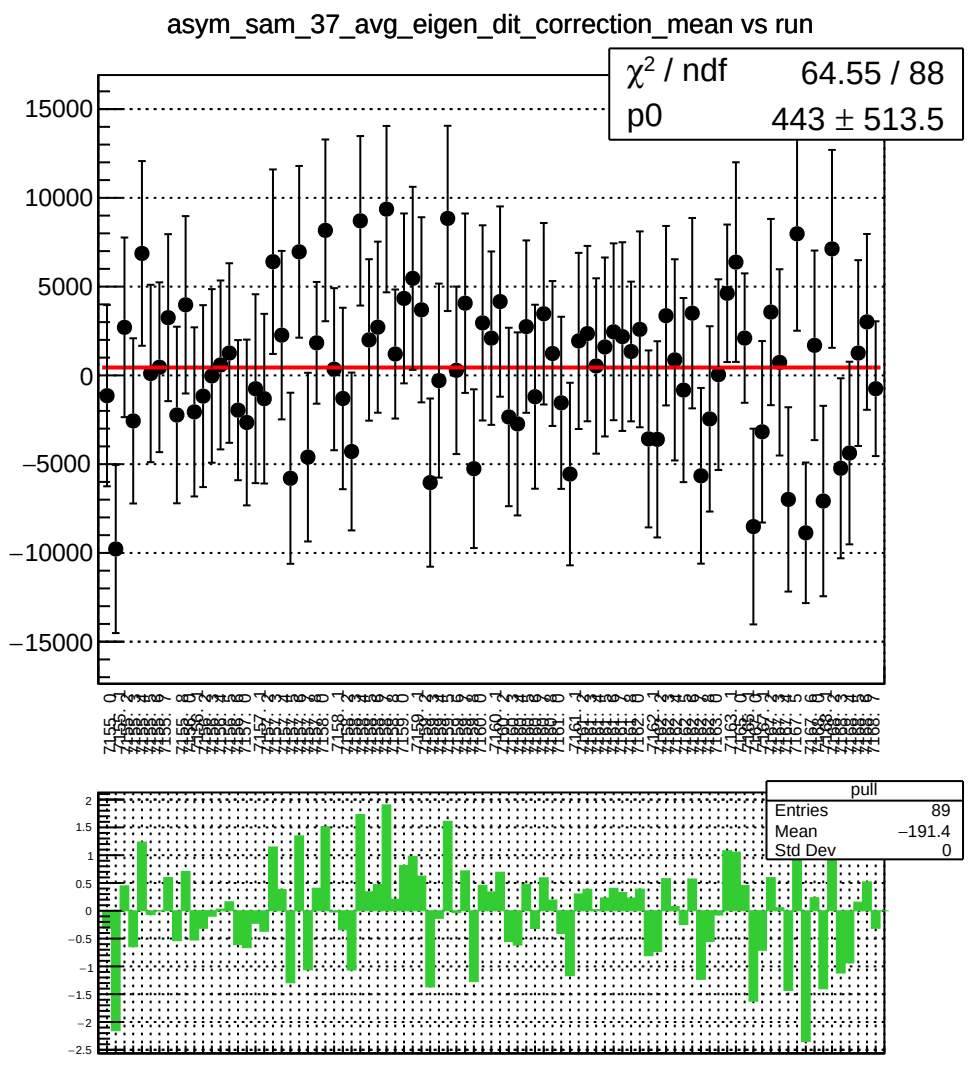

pull1D
Entries 89
Mean 0.007375
Std Dev 0.8516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

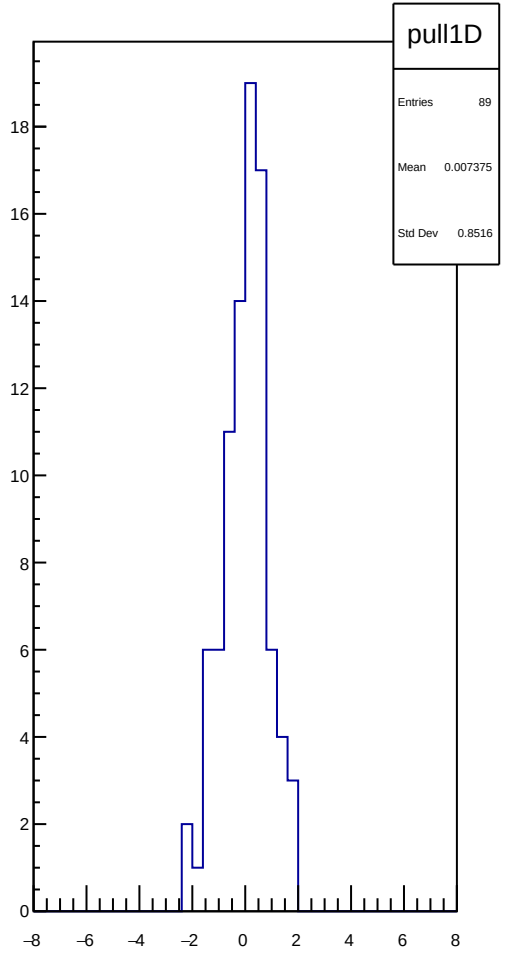

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 4538 / 88
p0 477 ± 0.3631
540
520
500
480
460
440
420

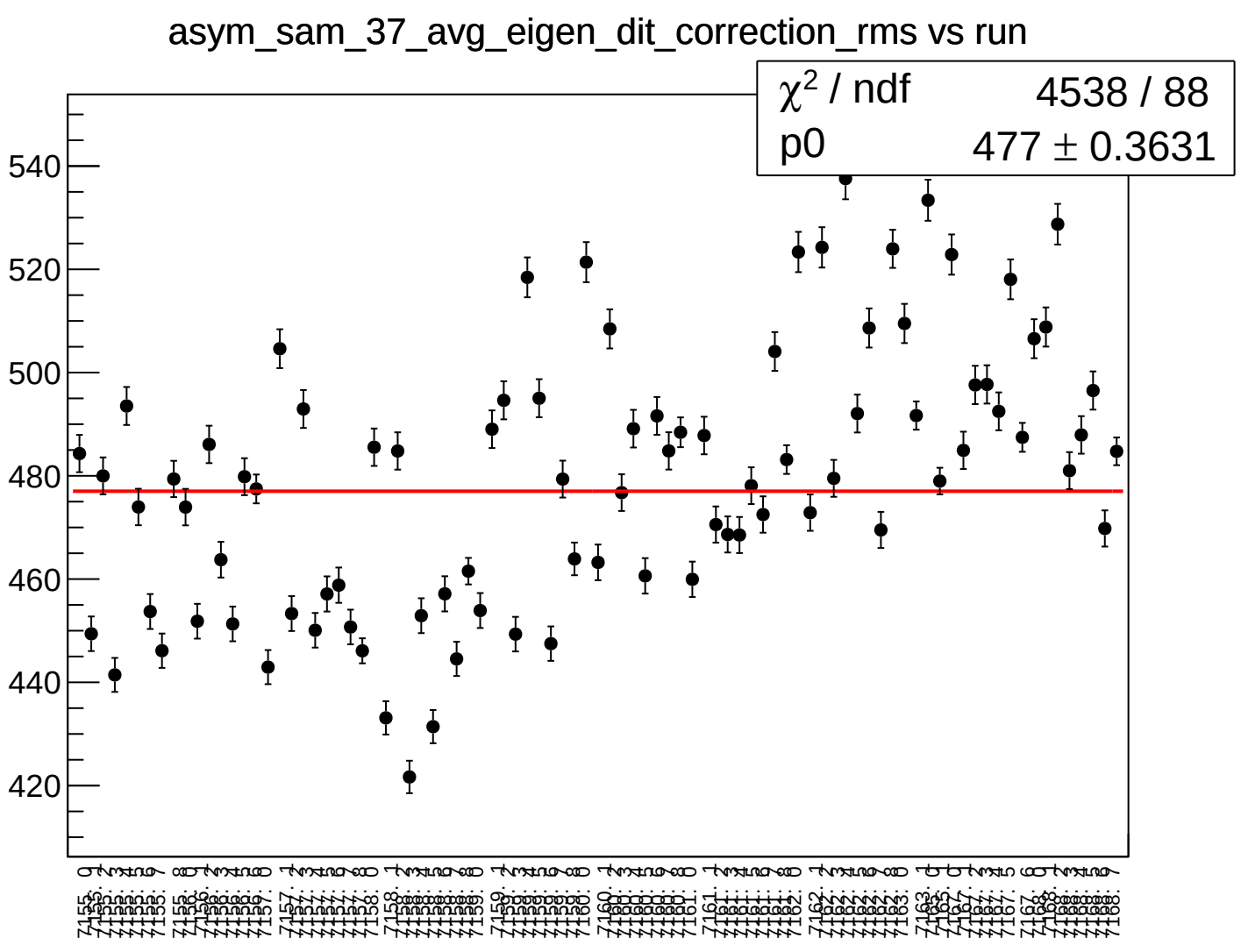

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 87.86 / 88
p0 −120 ± 64.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −382.3
Std Dev 0
2
1
0
−1
−2
−3

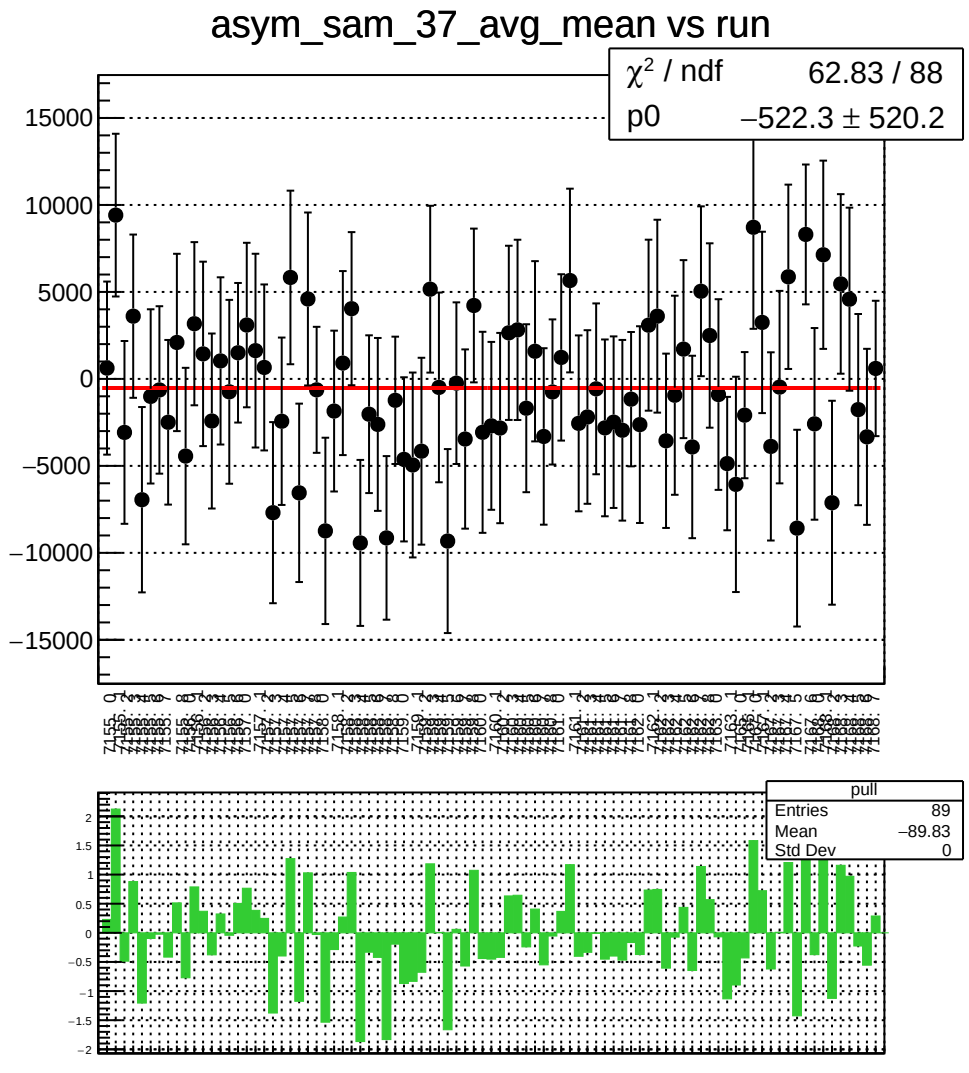

pull1D
Entries 89
Mean 0.004461
Std Dev 0.9936
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

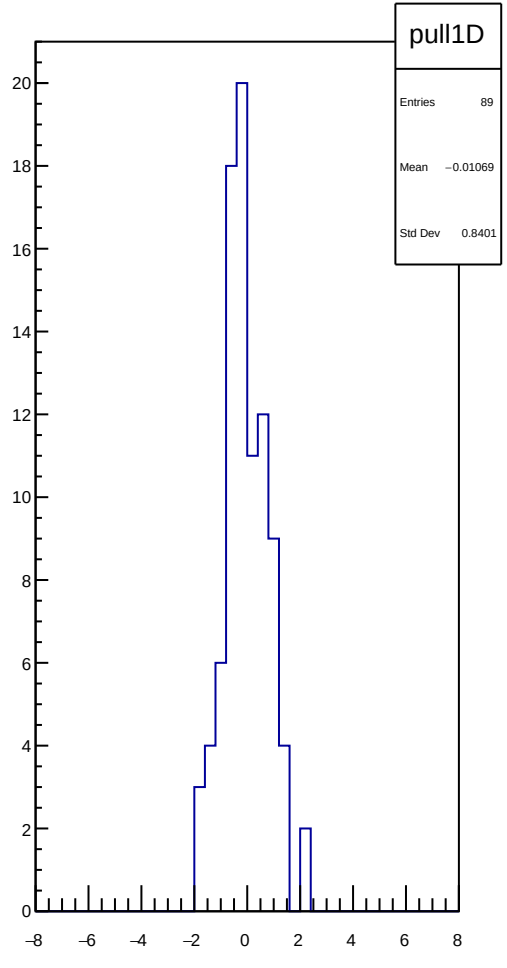

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.44e+04 / 88
p0 59.24 ± 0.04536
100
90
80
70
60
50

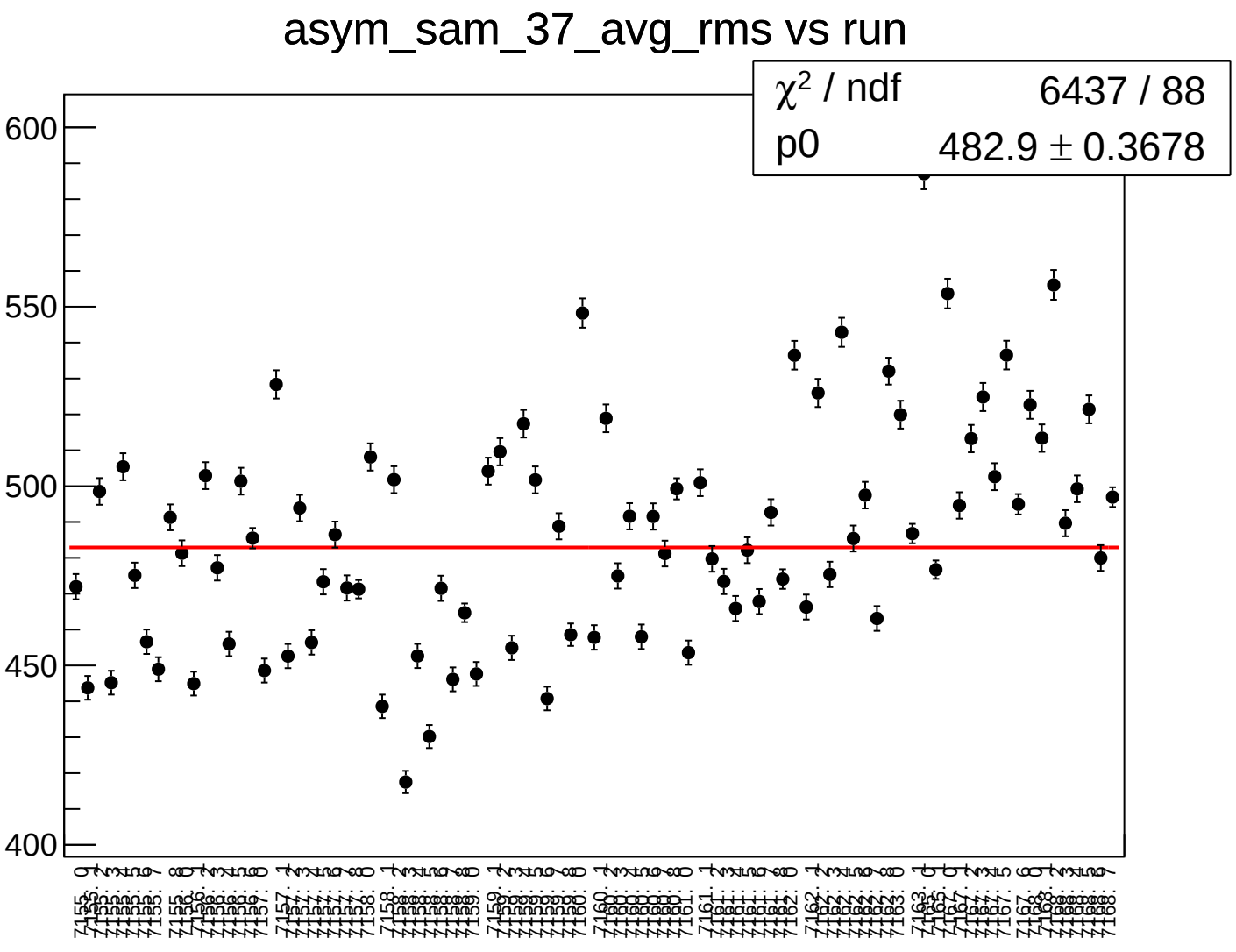

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.55 / 88
p0 443 ± 513.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −191.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

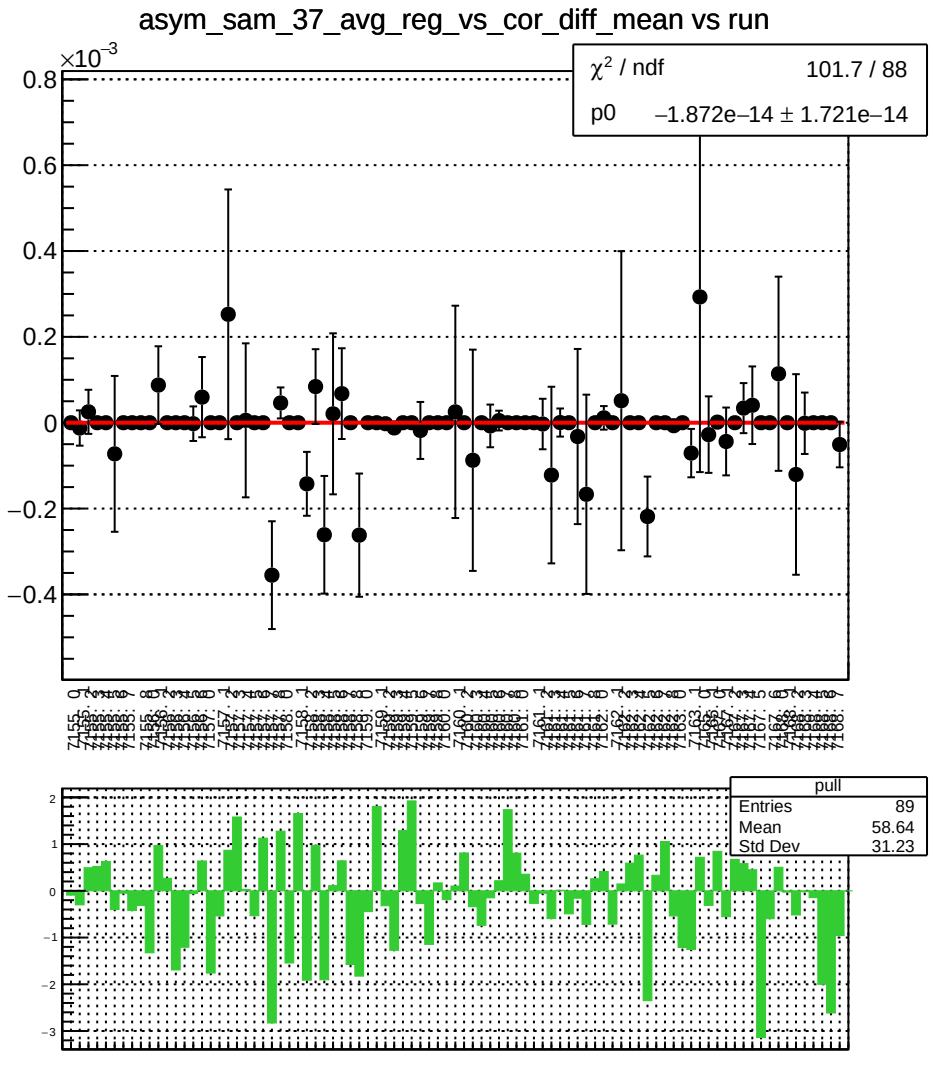

pull1D
Entries 89
Mean 0.007375
Std Dev 0.8516
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

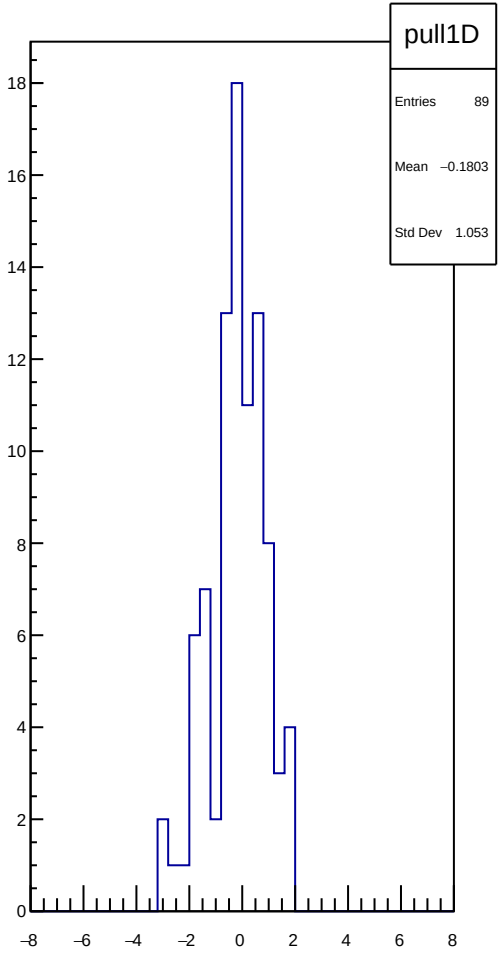

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 4538 / 88
p0 477 ± 0.3631
540
520
500
480
460
440
420

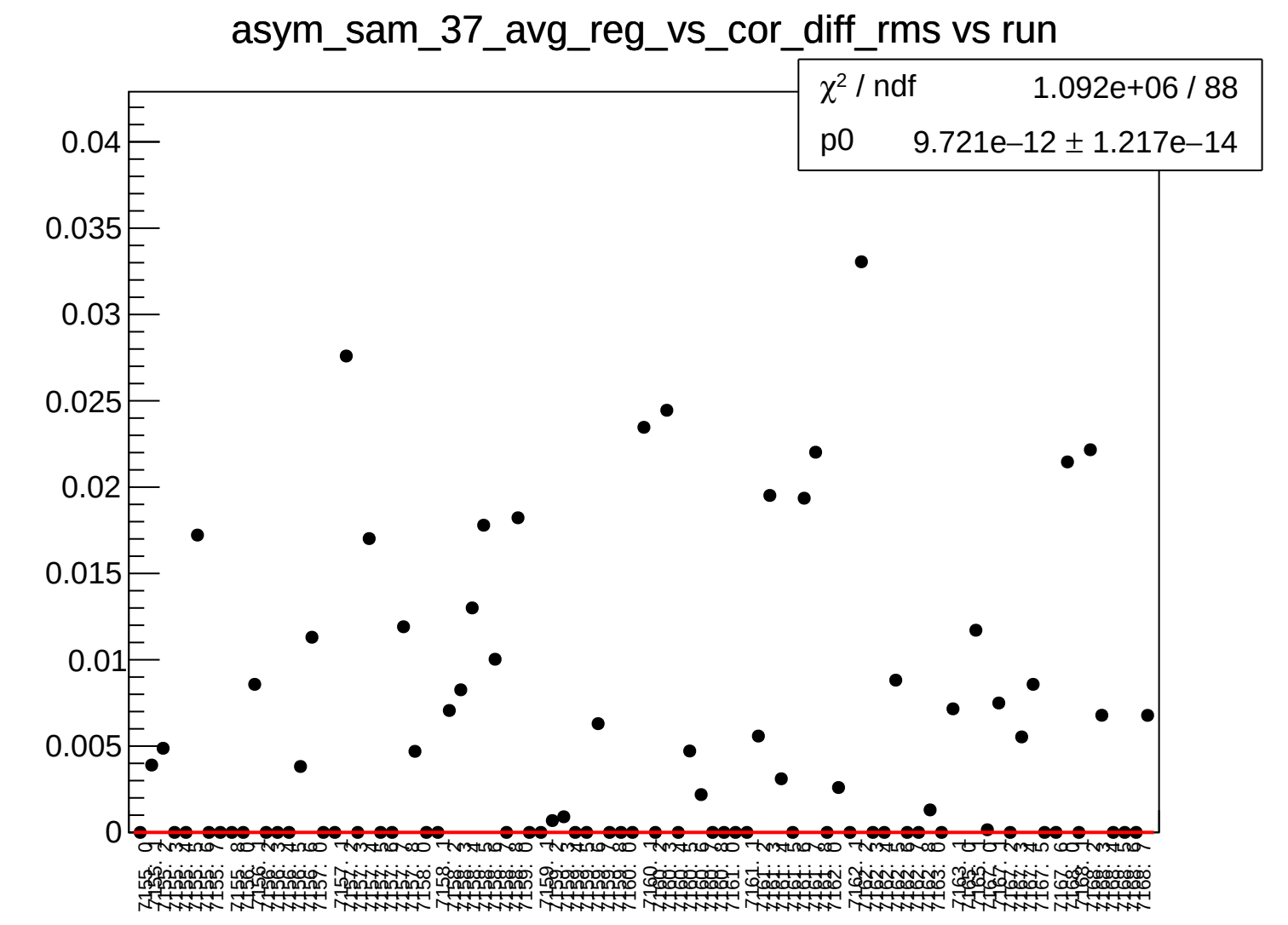

asym_sam_37_avg_mean vs run
χ² / ndf 62.83 / 88
p0 −522.3 ± 520.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −89.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

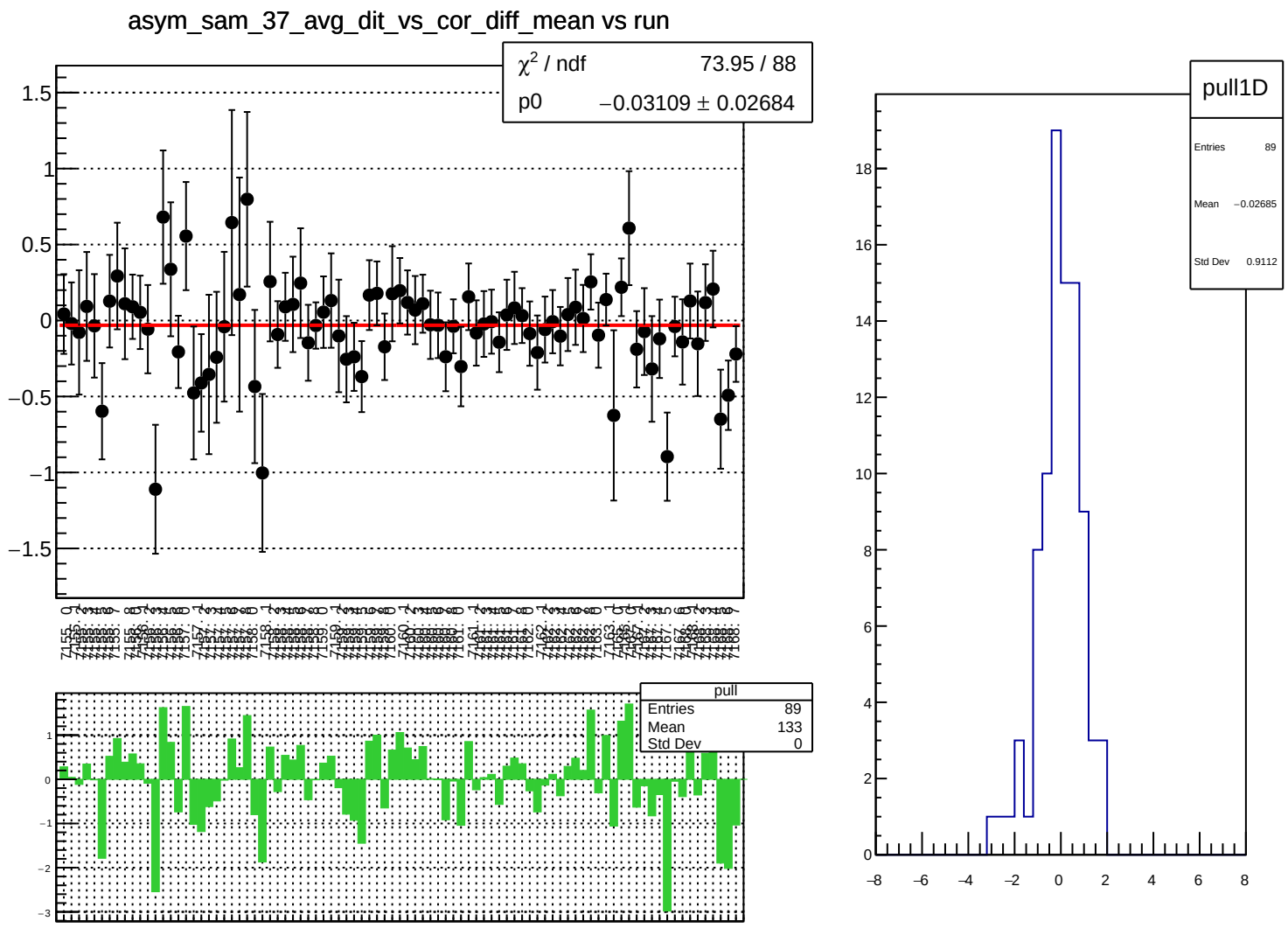

pull1D
Entries 89
Mean −0.01069
Std Dev 0.8401
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

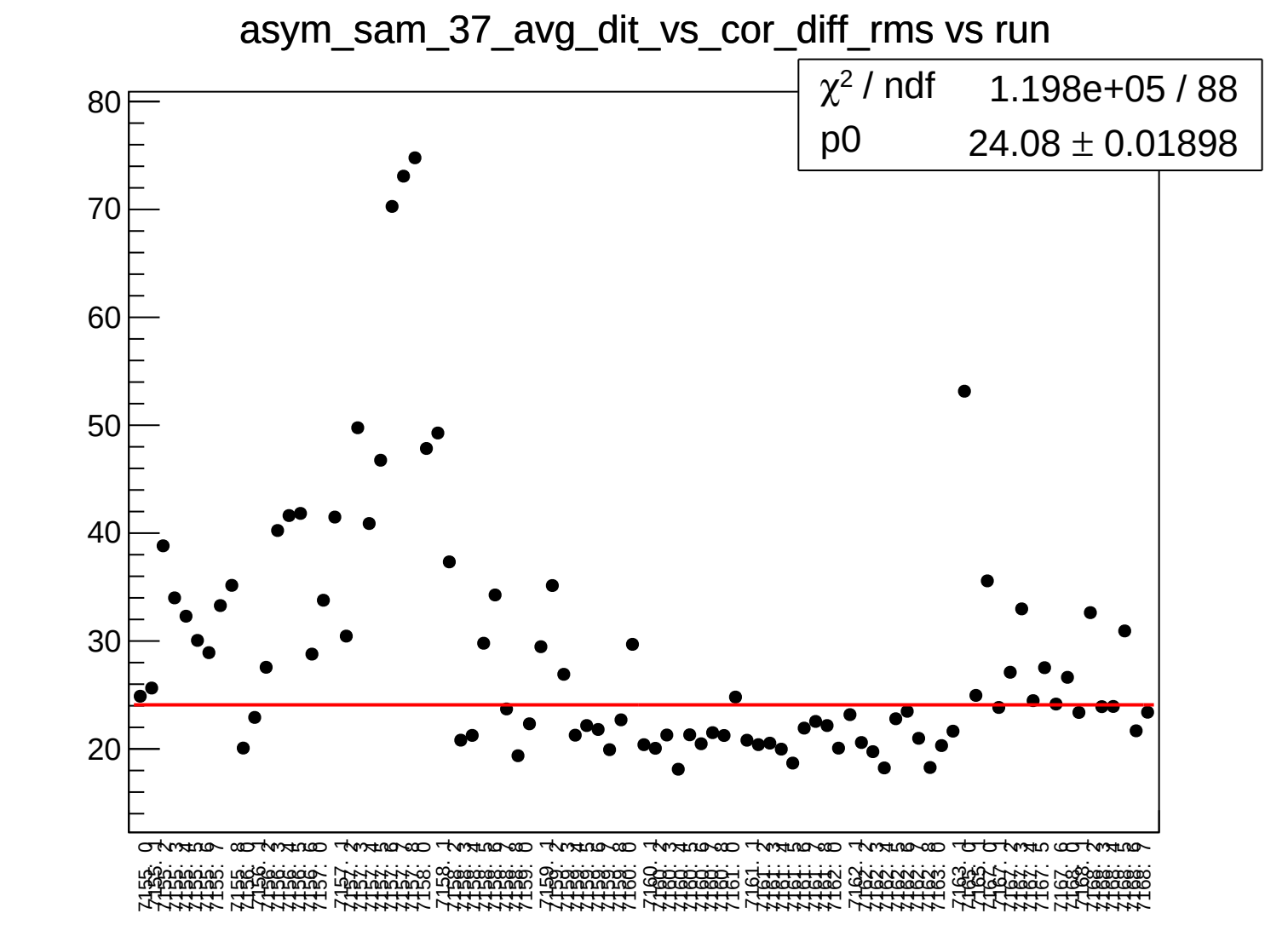

asym_sam_37_avg_rms vs run
χ² / ndf 6437 / 88
p0 482.9 ± 0.3678
600
550
500
450
400

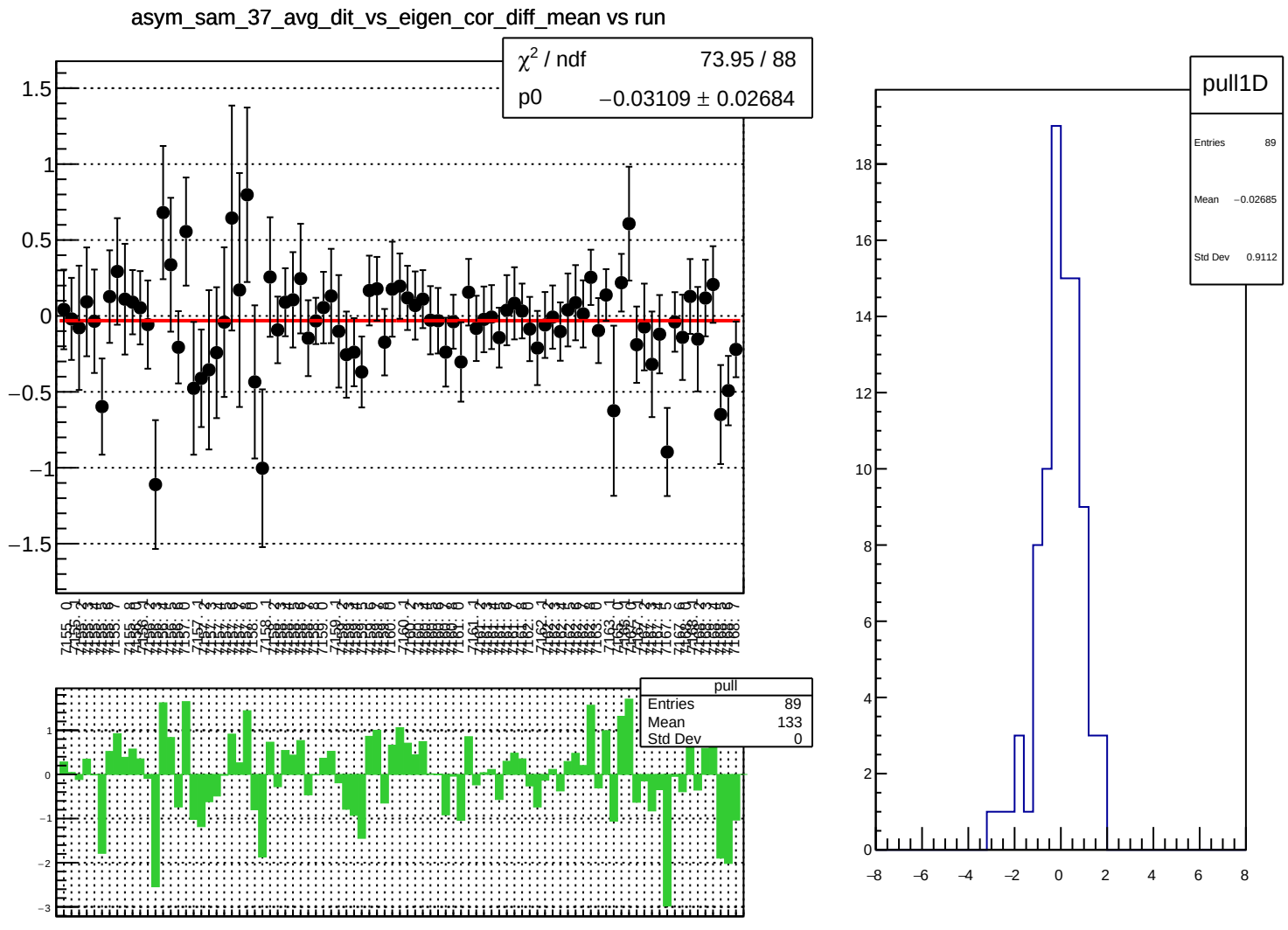

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 101.7 / 88
p0 −1.872e−14 ± 1.721e−14
pull
Entries 89
Mean 58.64
Std Dev 31.23

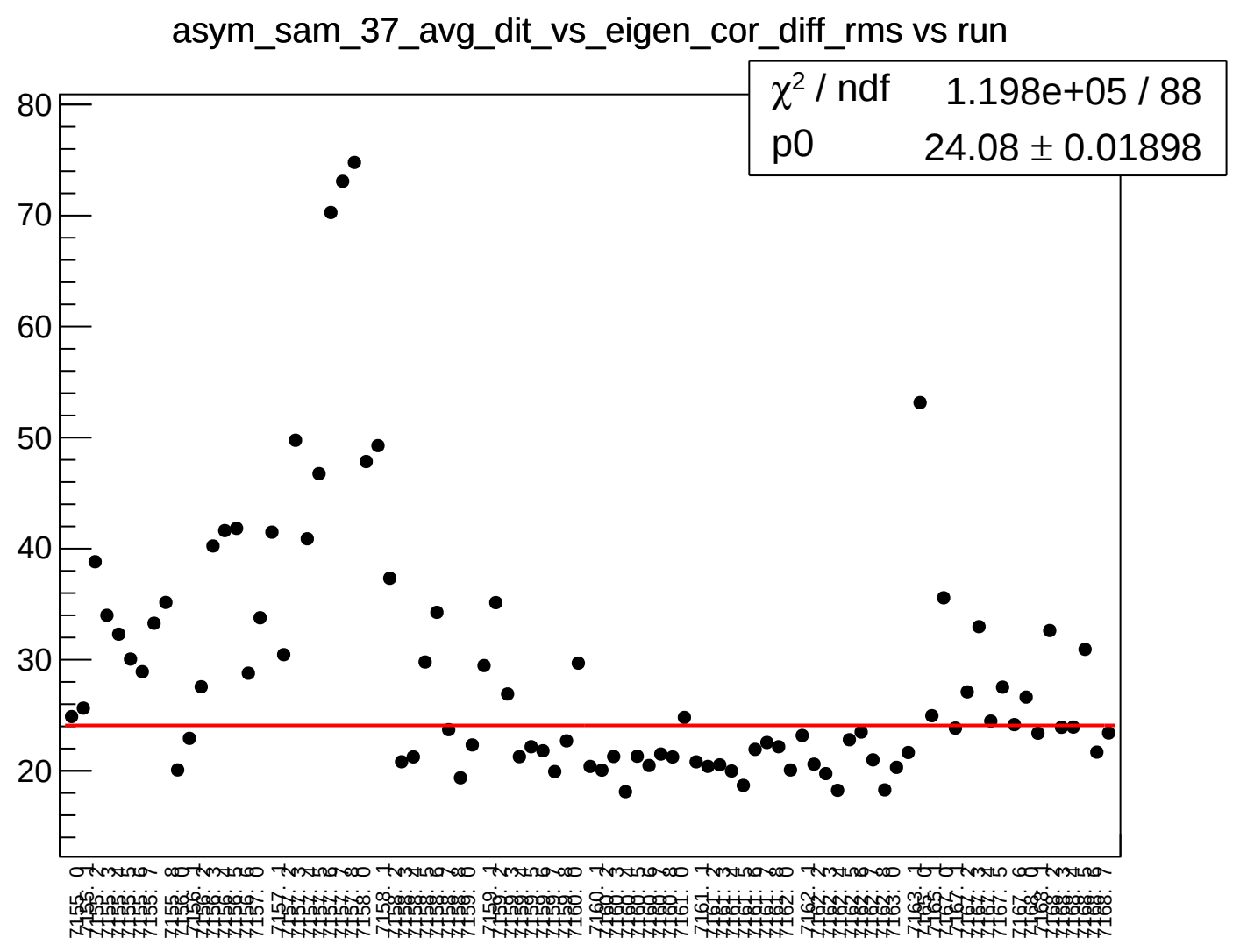

pull1D
Entries 89
Mean −0.1803
Std Dev 1.053

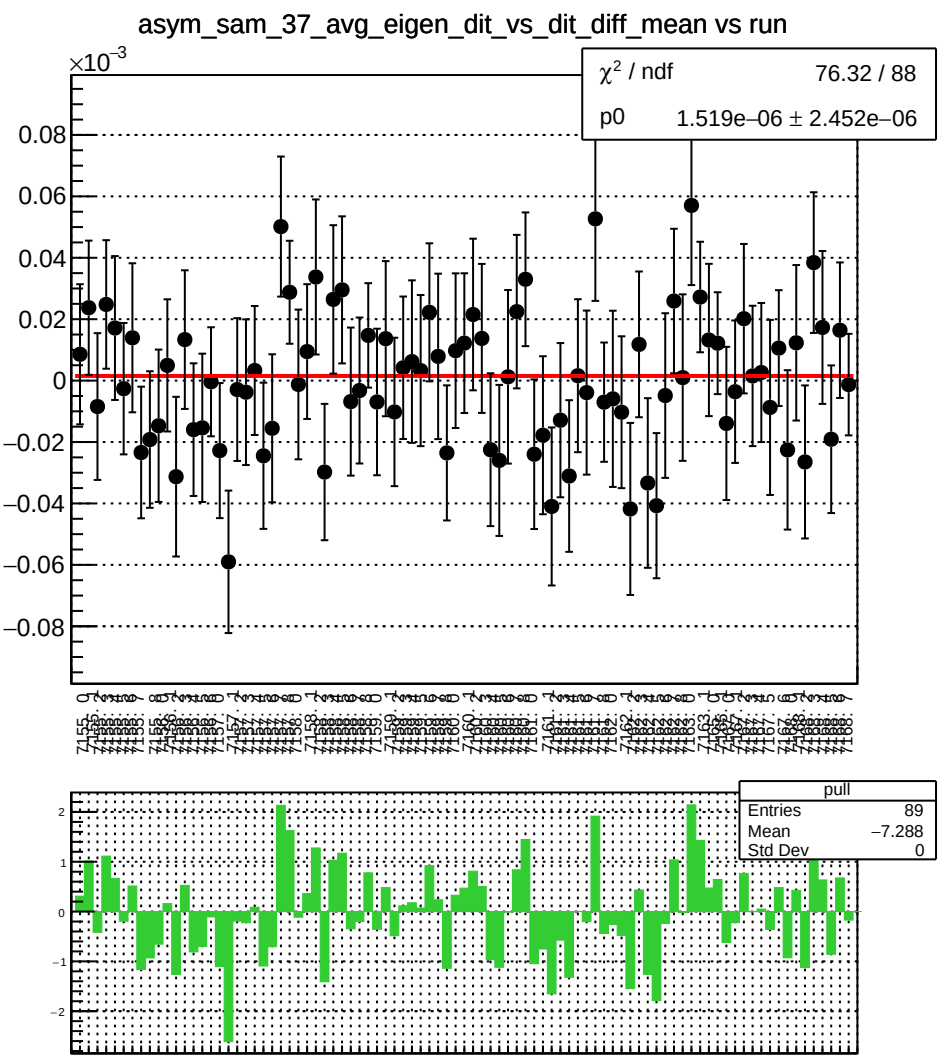

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 88
p0 9.721e−12 ± 1.217e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

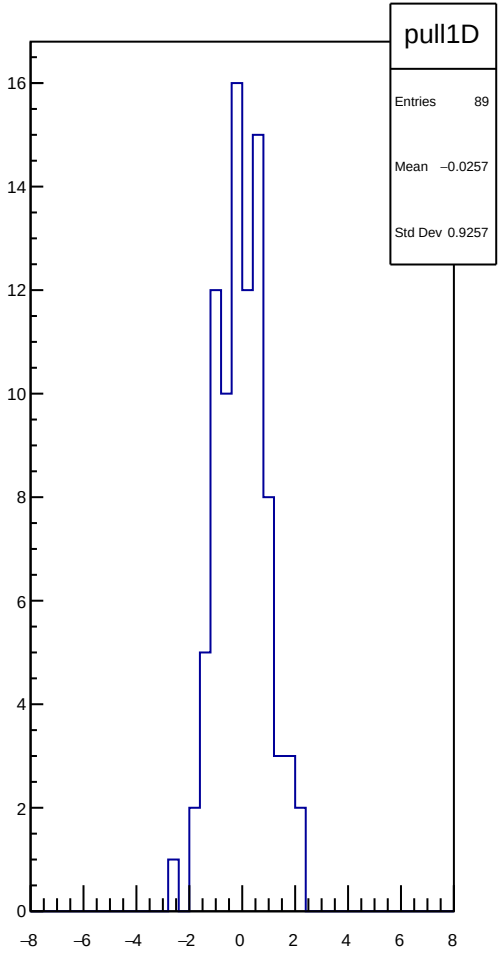

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.95 / 88
p0 −0.03109 ± 0.02684
pull
Entries 89
Mean 133
Std Dev 0
pull1D
Entries 89
Mean −0.02685
Std Dev 0.9112

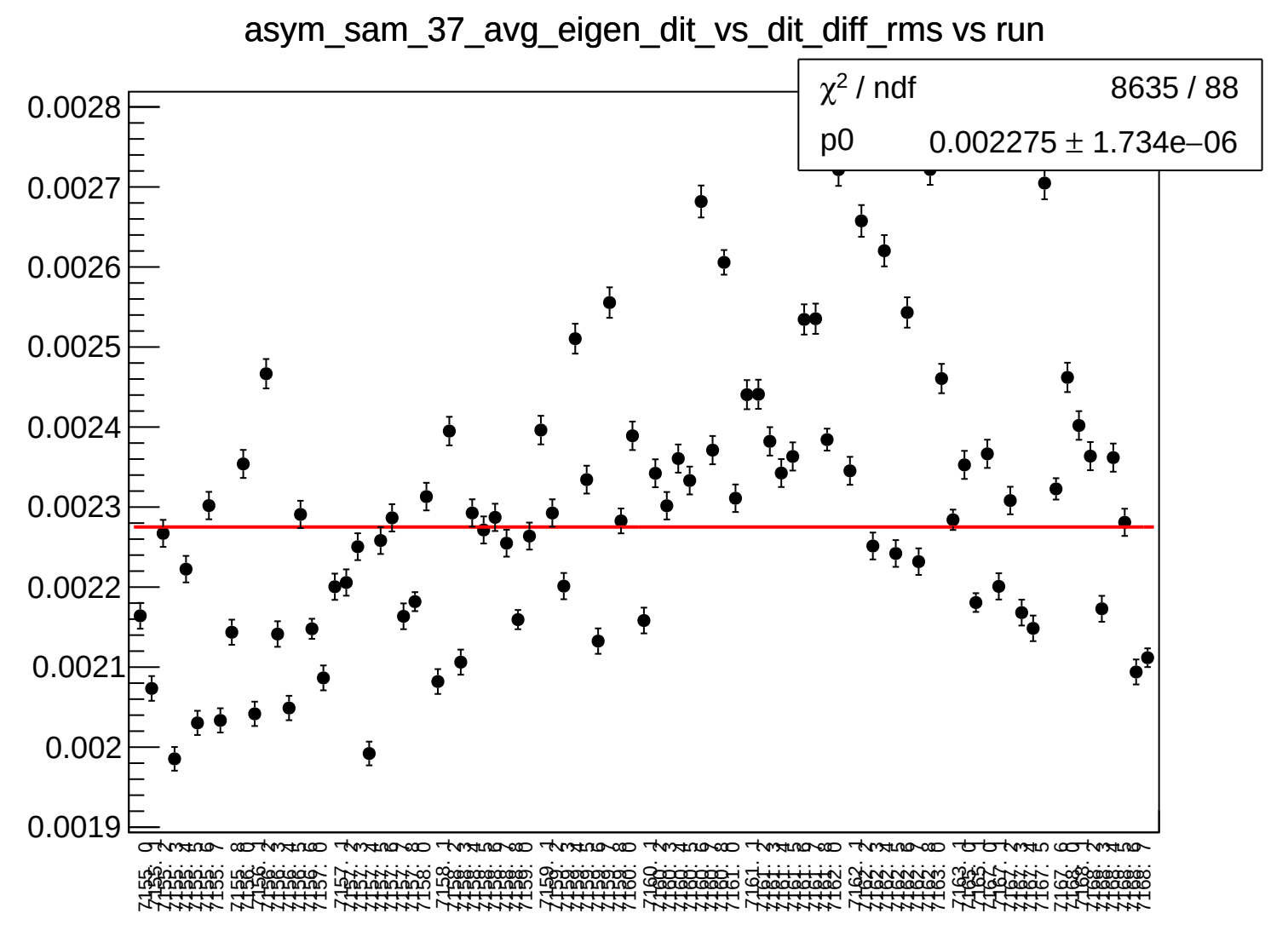

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 88
p0 24.08 ± 0.01898
80
70
60
50
40
30
20

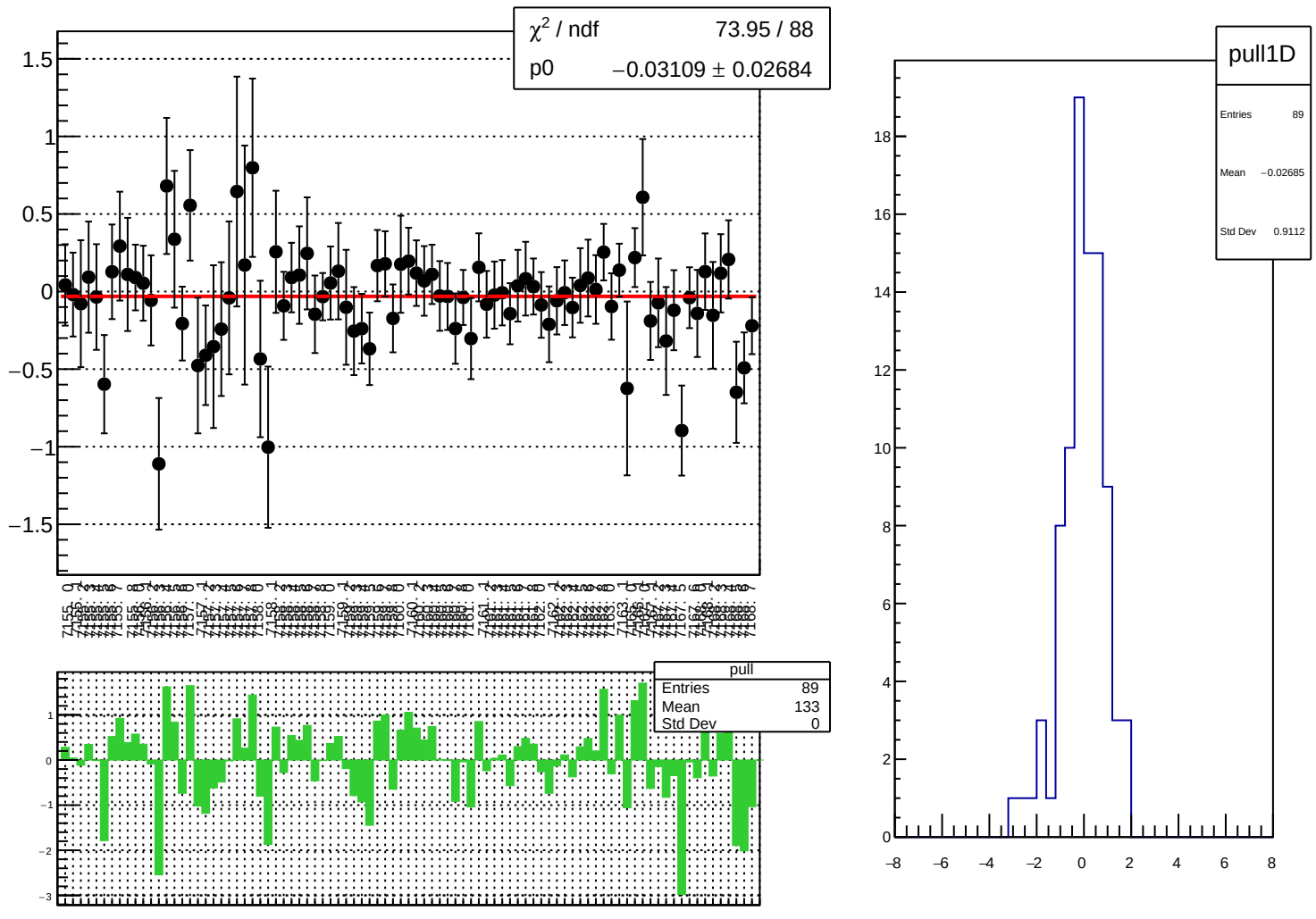

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.95 / 88
p0 −0.03109 ± 0.02684
pull
Entries 89
Mean 133
Std Dev 0
pull1D
Entries 89
Mean −0.02685
Std Dev 0.9112

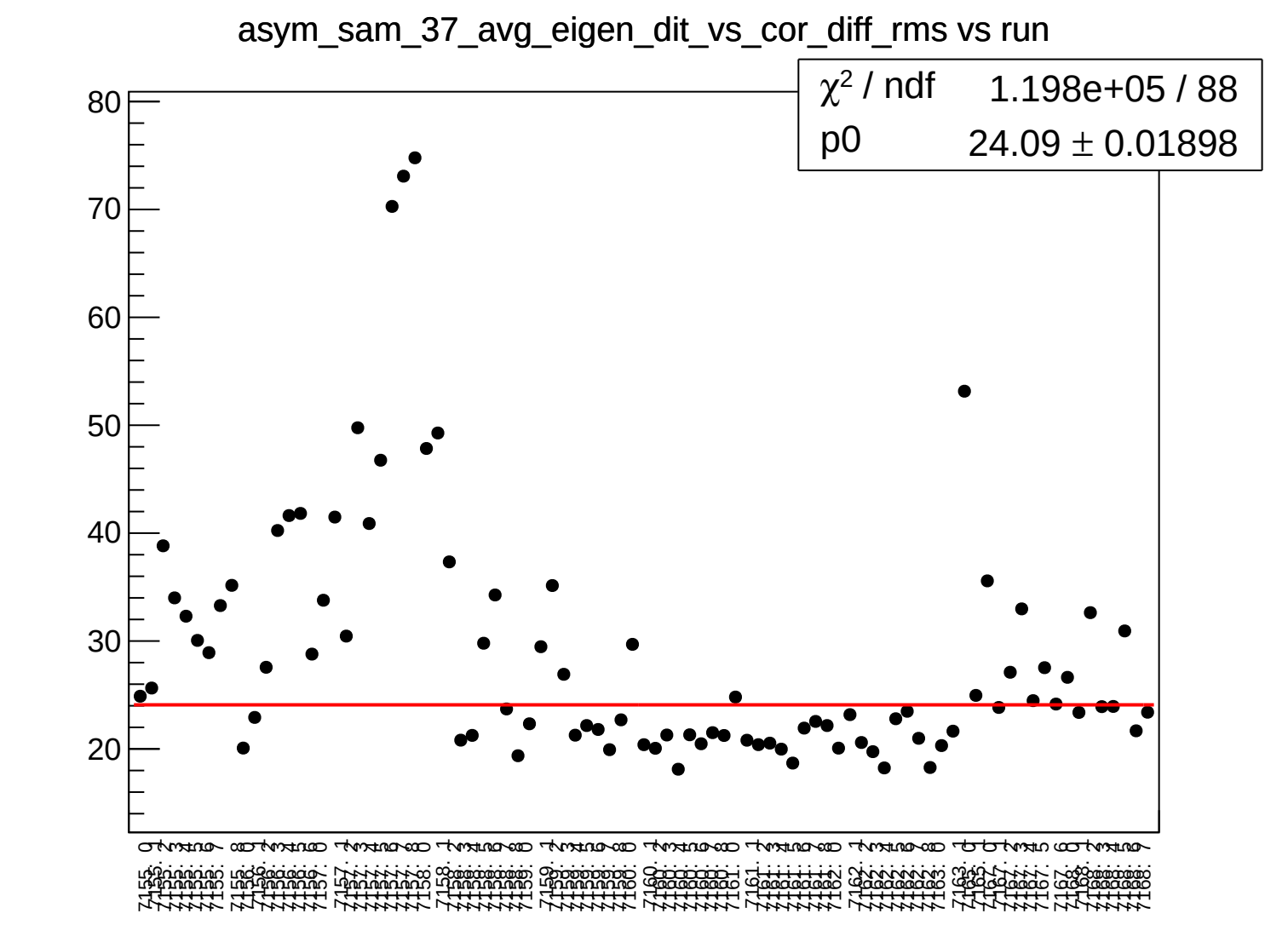

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 88
p0 24.08 ± 0.01898
80
70
60
50
40
30
20

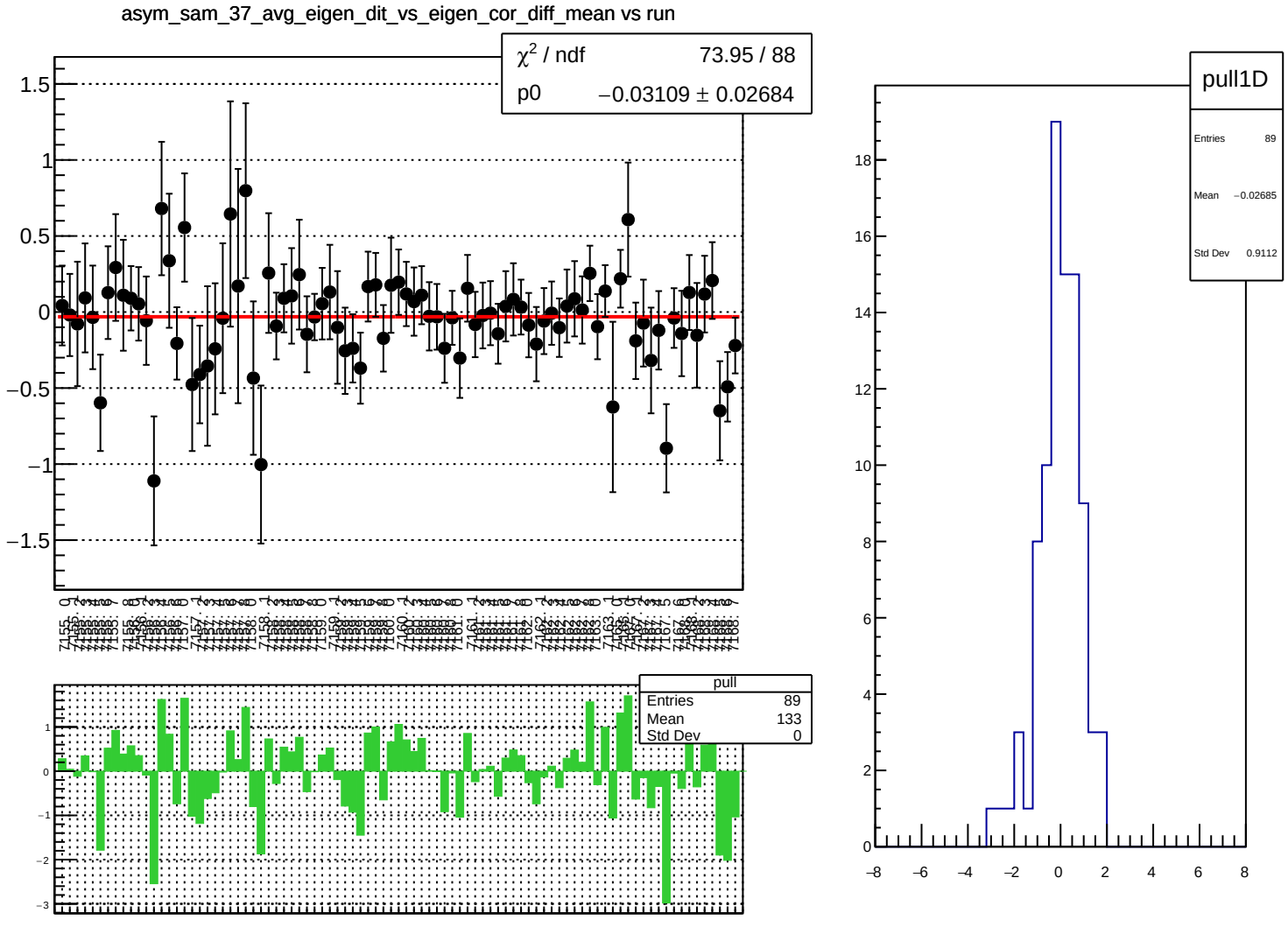

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.32 / 88
p0 1.519e−06 ± 2.452e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −7.288
Std Dev 0

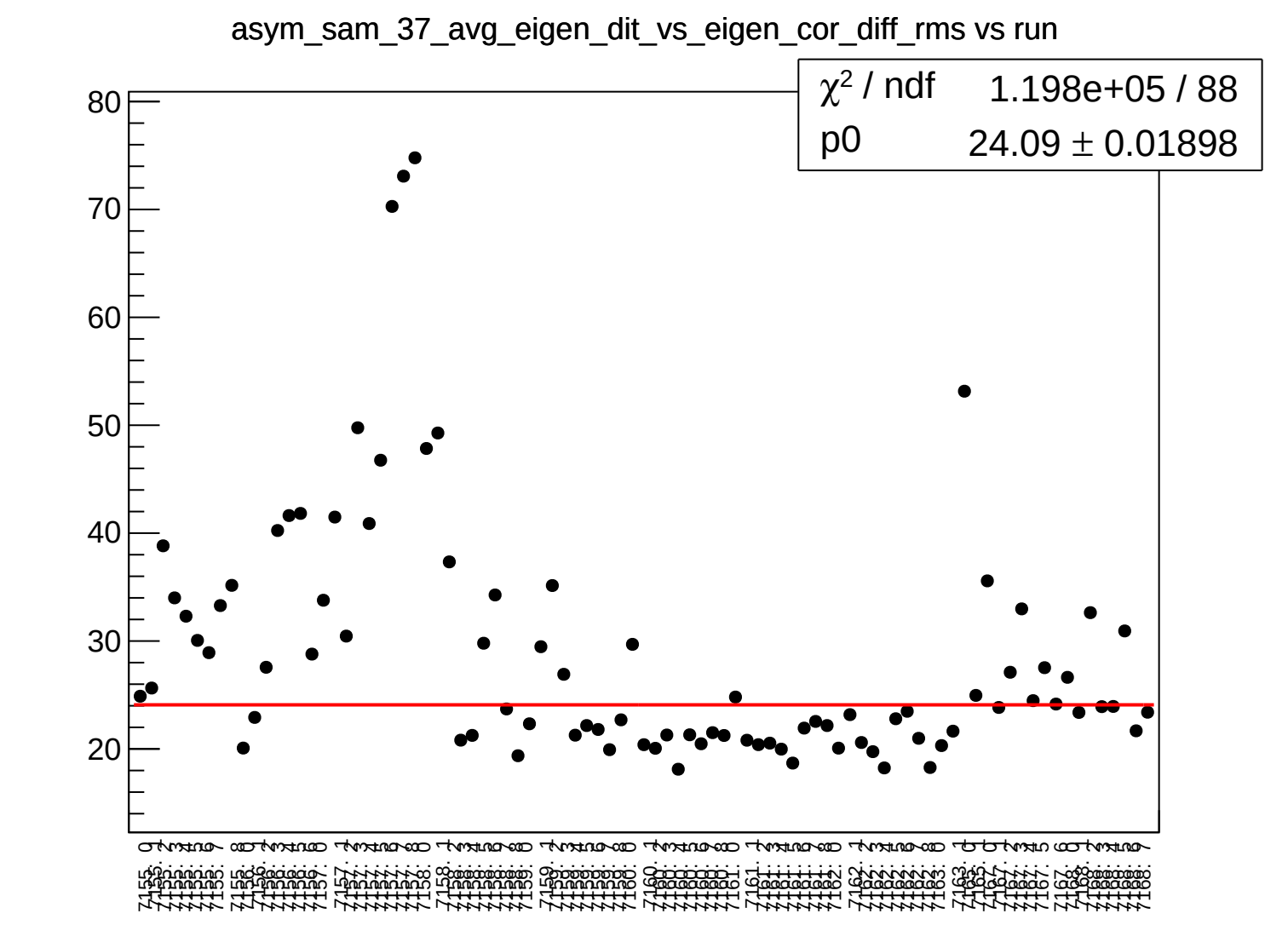

pull1D
Entries 89
Mean −0.0257
Std Dev 0.9257
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

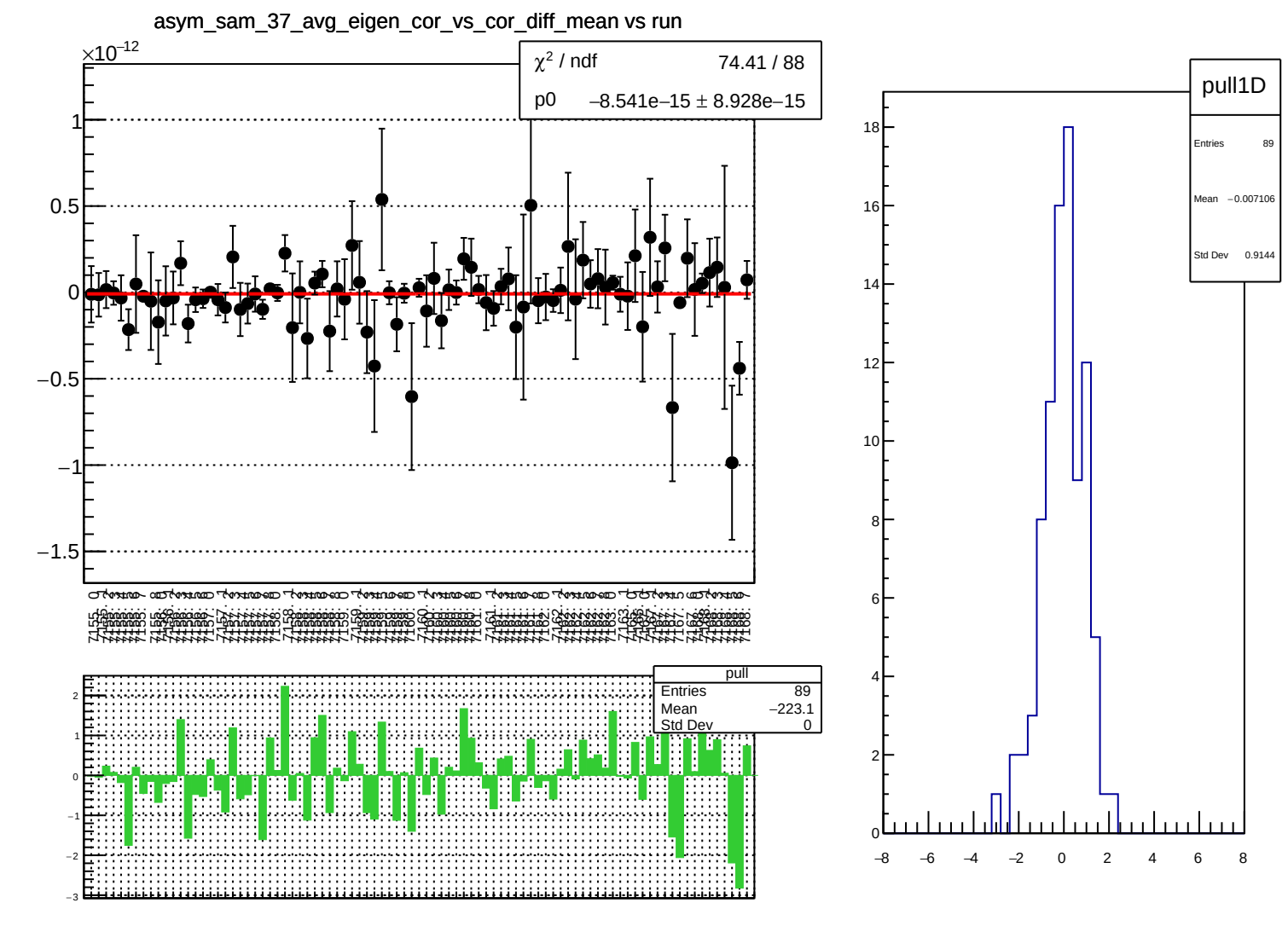

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8635 / 88
p0 0.002275 ± 1.734e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019

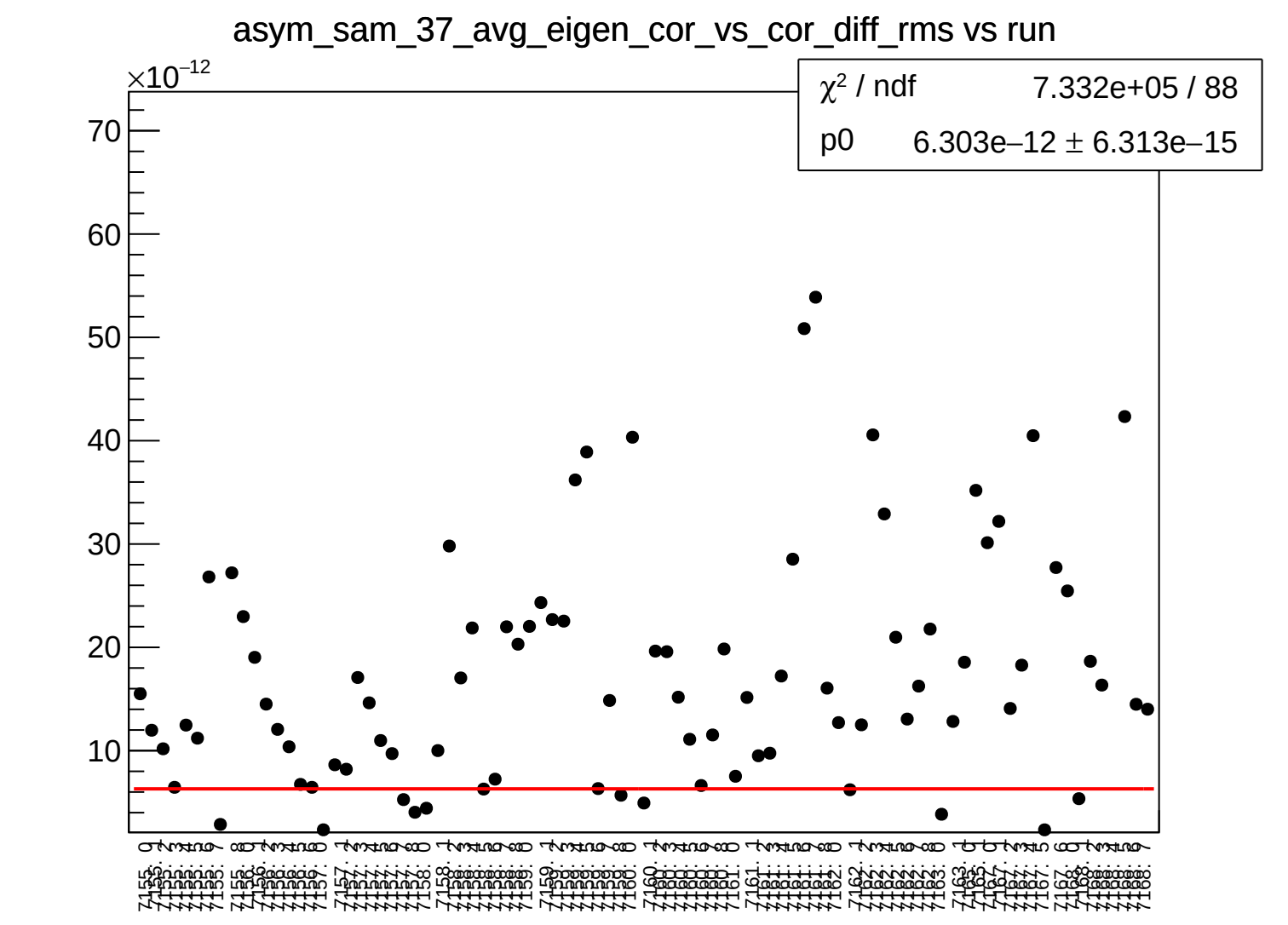

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.95 / 88
p0 −0.03109 ± 0.02684
pull
Entries 89
Mean 133
Std Dev 0
pull1D
Entries 89
Mean −0.02685
Std Dev 0.9112

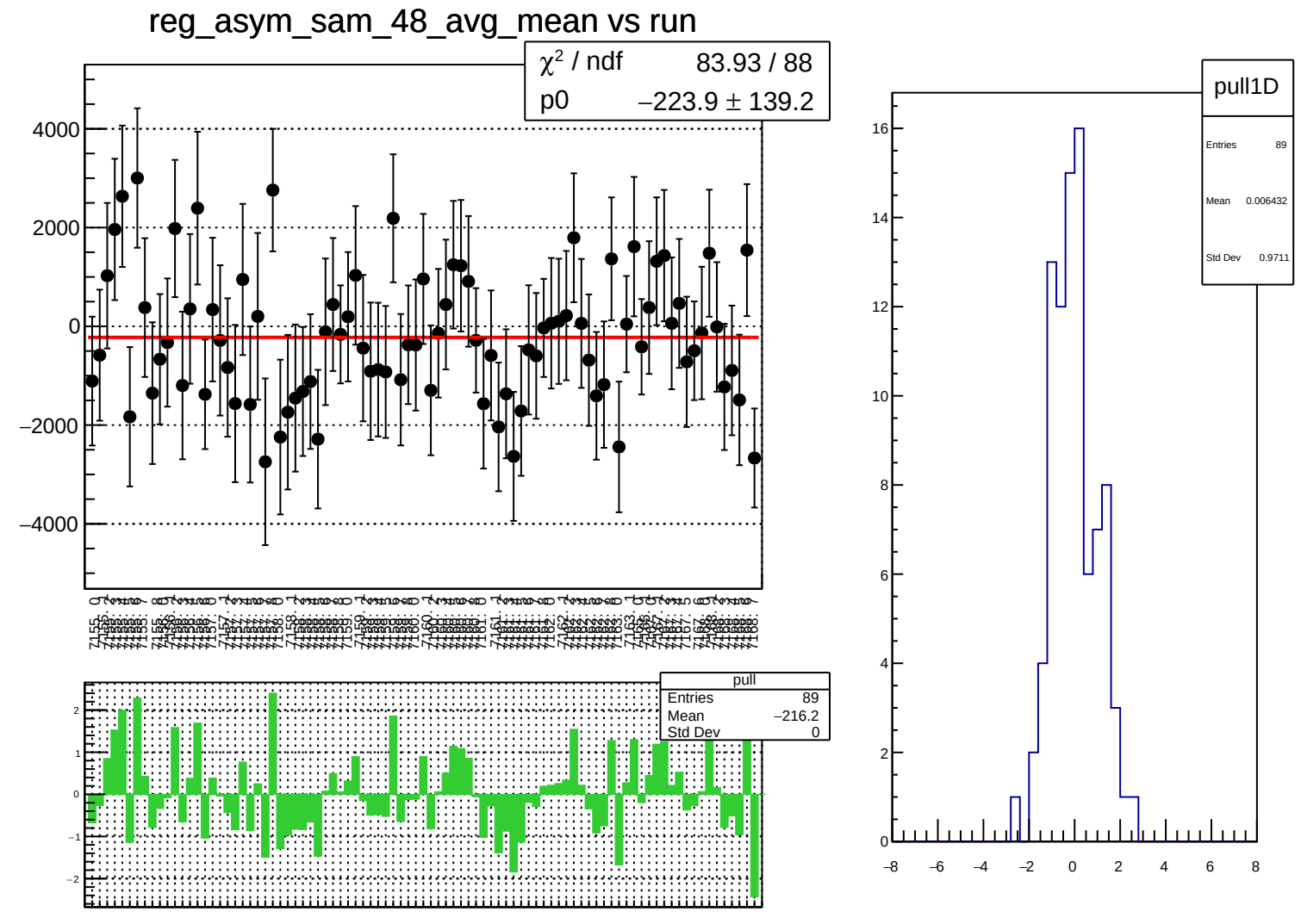

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 88
p0 24.09 ± 0.01898
80
70
60
50
40
30
20

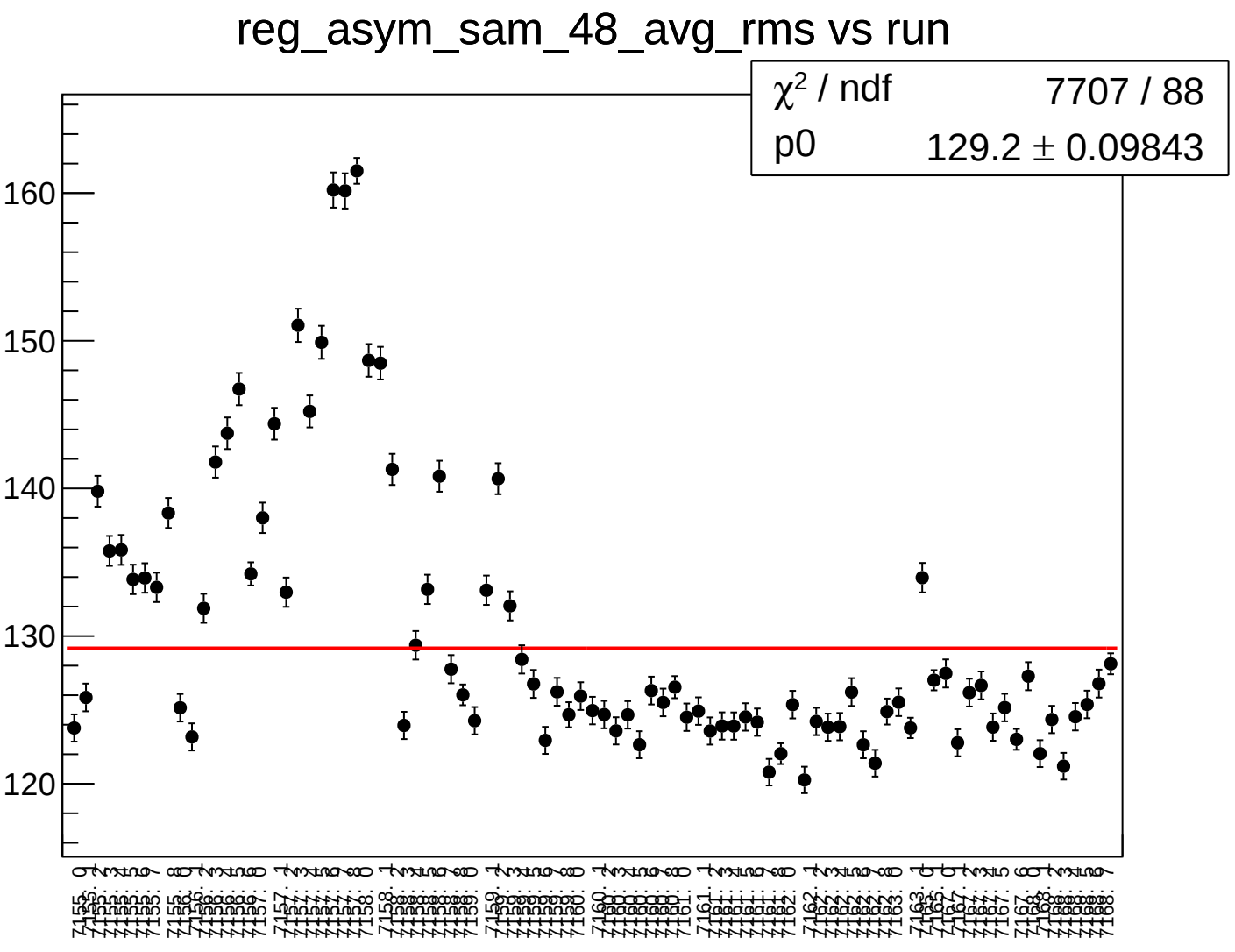

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.95 / 88
p0 −0.03109 ± 0.02684
pull
Entries 89
Mean 133
Std Dev 0
pull1D
Entries 89
Mean −0.02685
Std Dev 0.9112

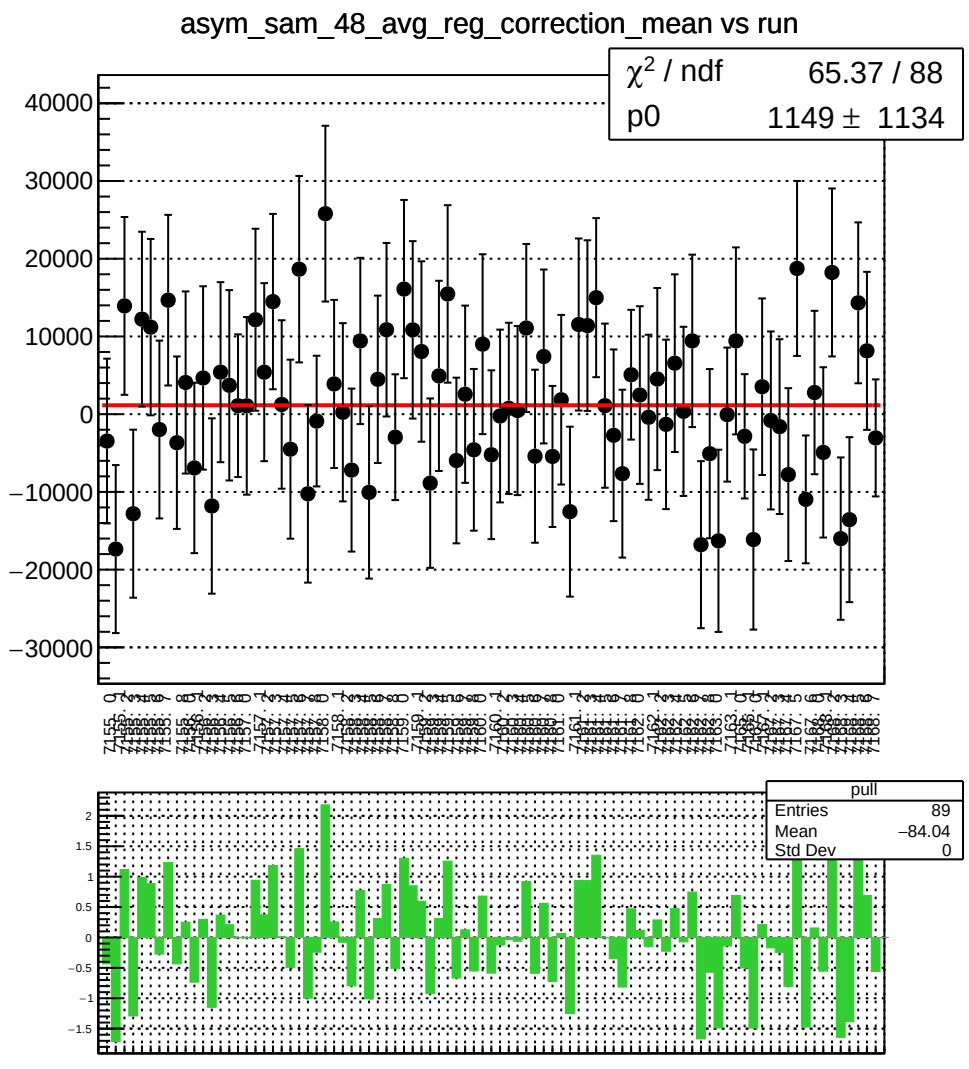

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.198e+05 / 88
p0 24.09 ± 0.01898
80
70
60
50
40
30
20

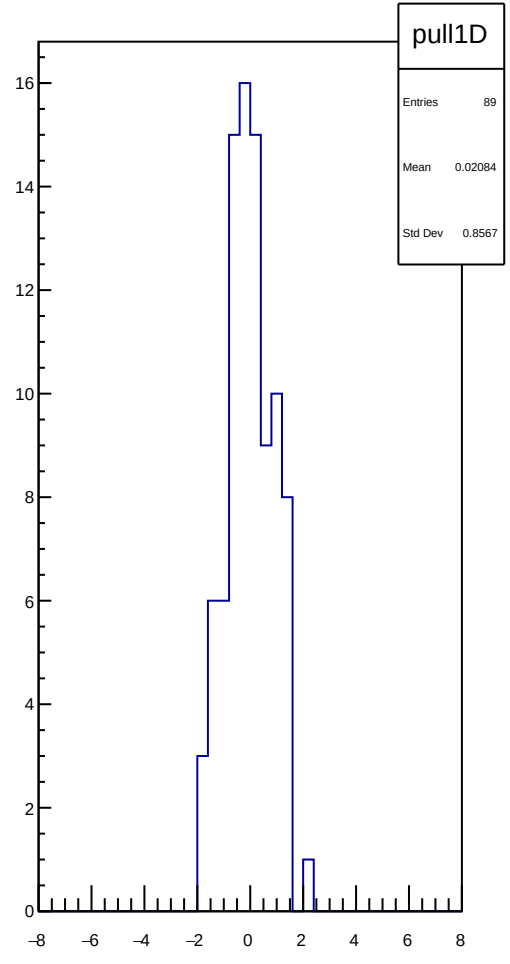

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 74.41 / 88
p0 −8.541e−15 ± 8.928e−15
pull
Entries 89
Mean −223.1
Std Dev 0
pull1D
Entries 89
Mean −0.007106
Std Dev 0.9144

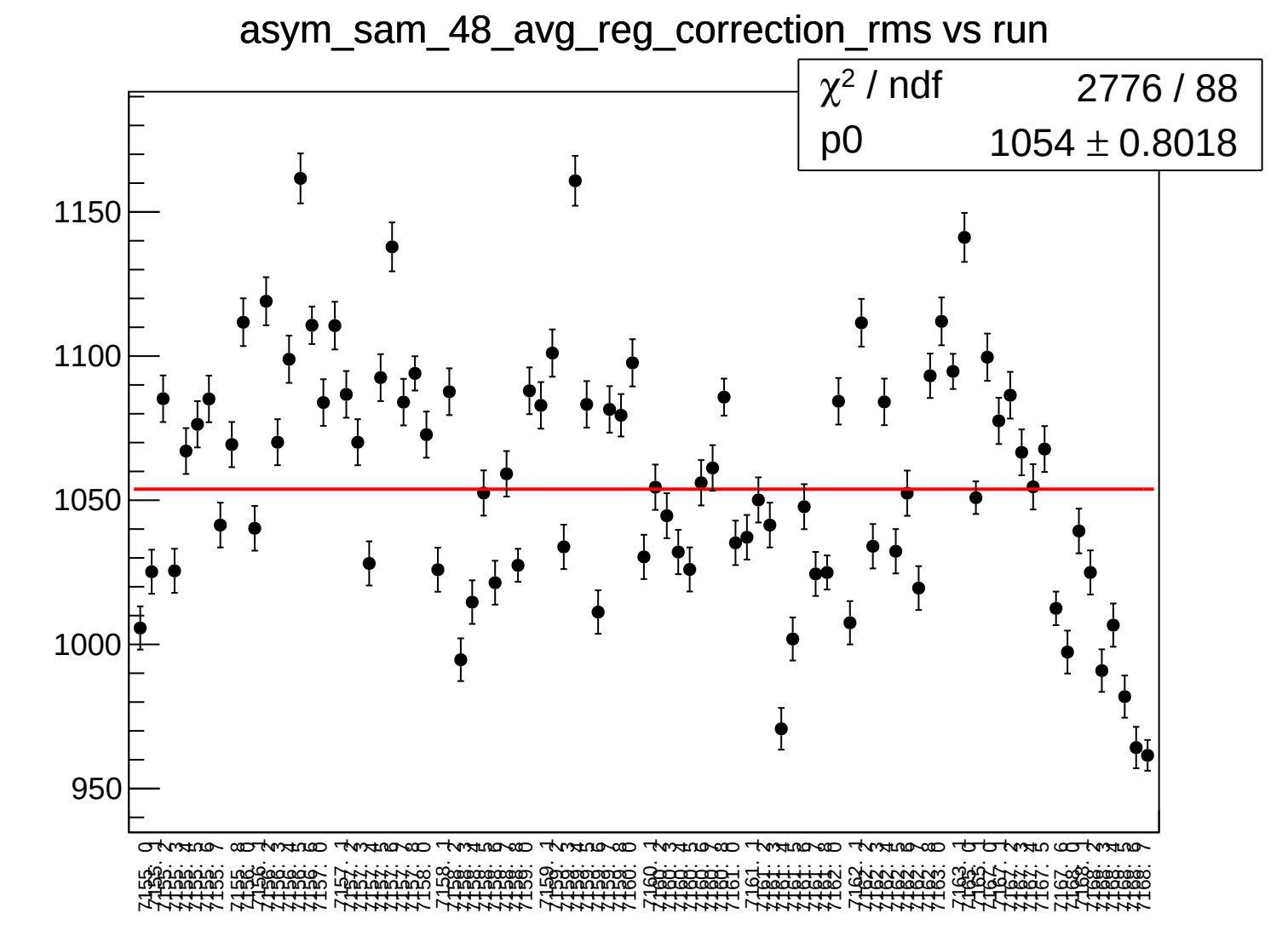

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.332e+05 / 88
p0 6.303e−12 ± 6.313e−15
70
60
50
40
30
20
10

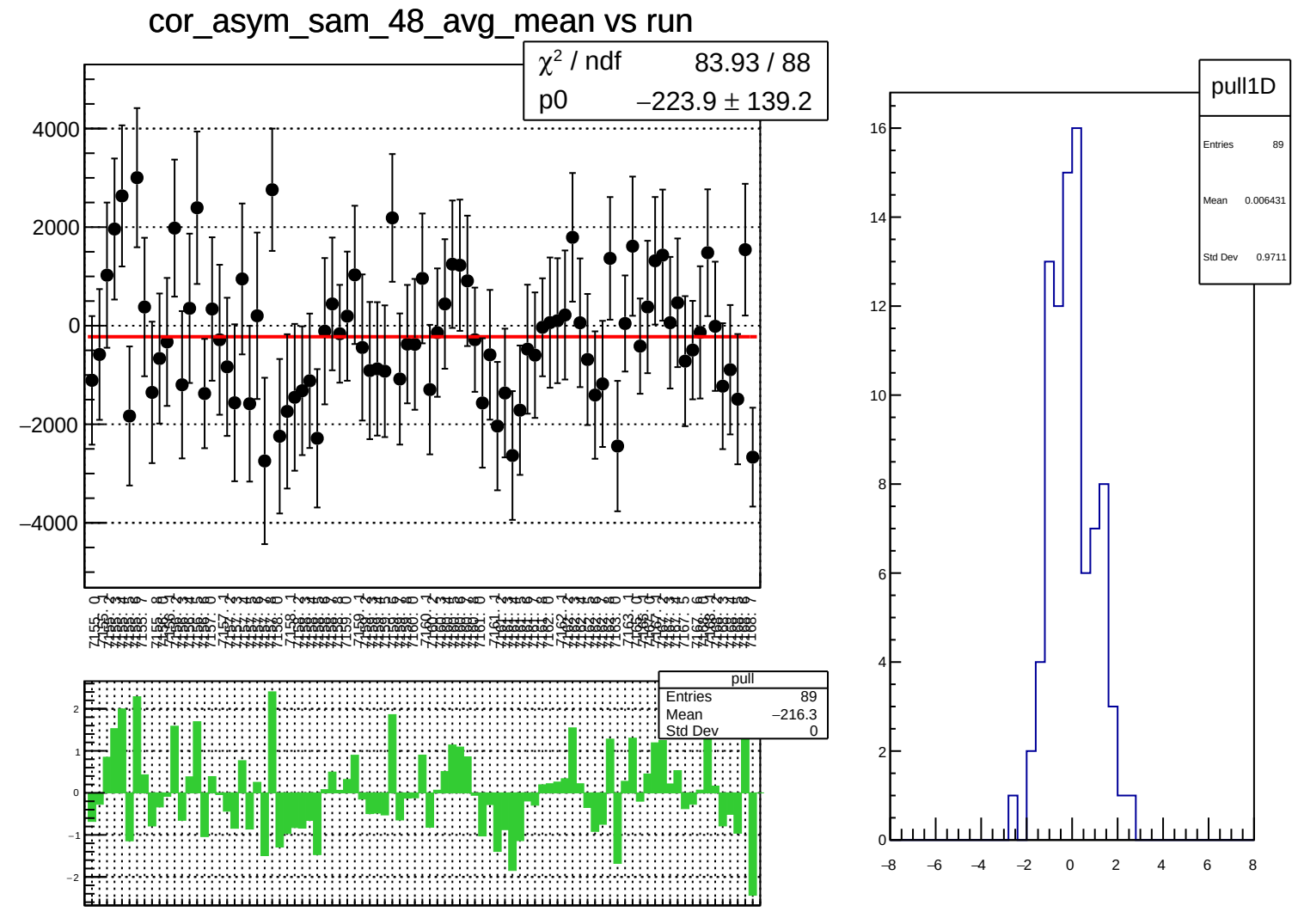

reg_asym_sam_48_avg_mean vs run
χ² / ndf 83.93 / 88
p0 −223.9 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −216.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006432
Std Dev 0.9711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

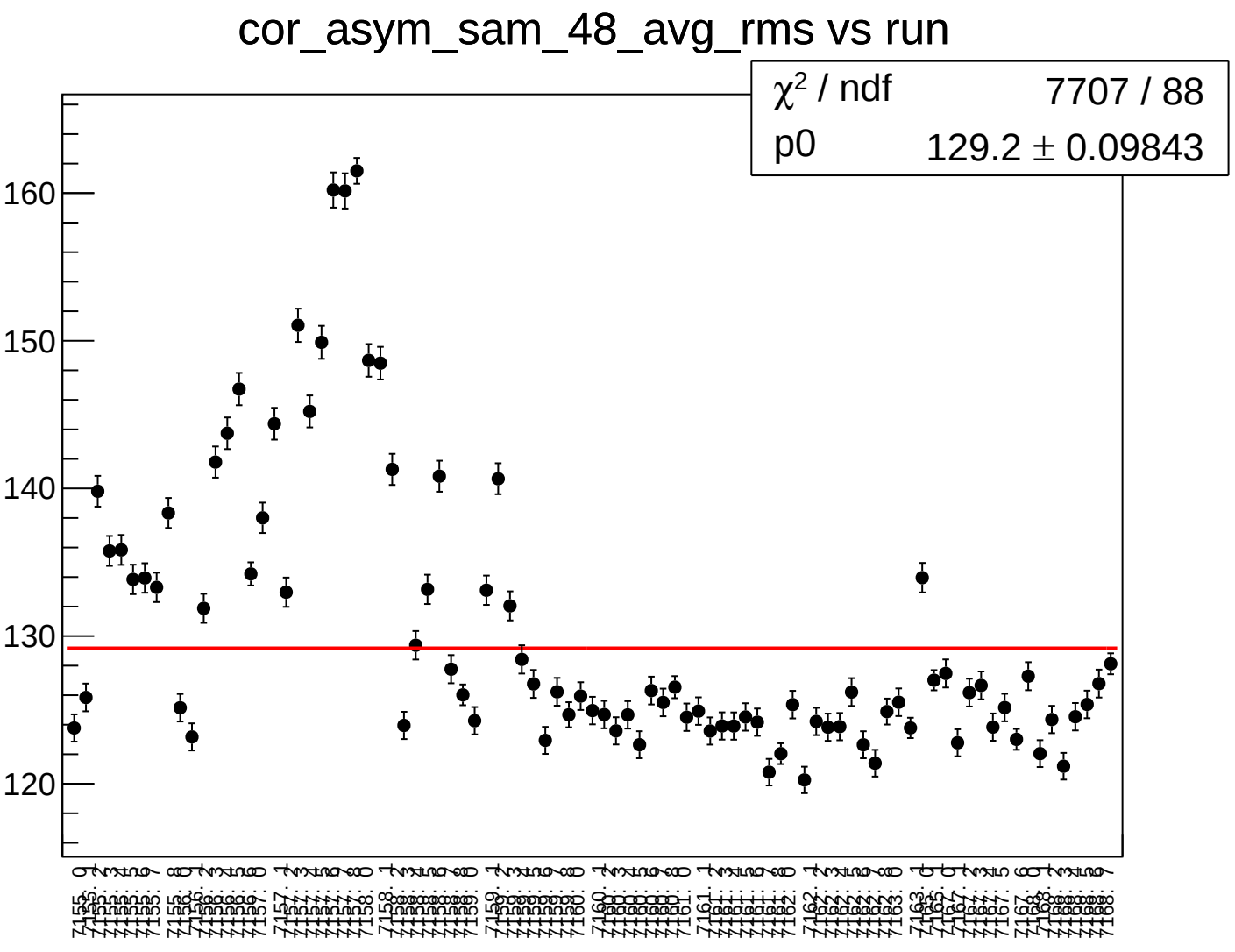

reg_asym_sam_48_avg_rms vs run
χ² / ndf 7707 / 88
p0 129.2 ± 0.09843
160
150
140
130
120

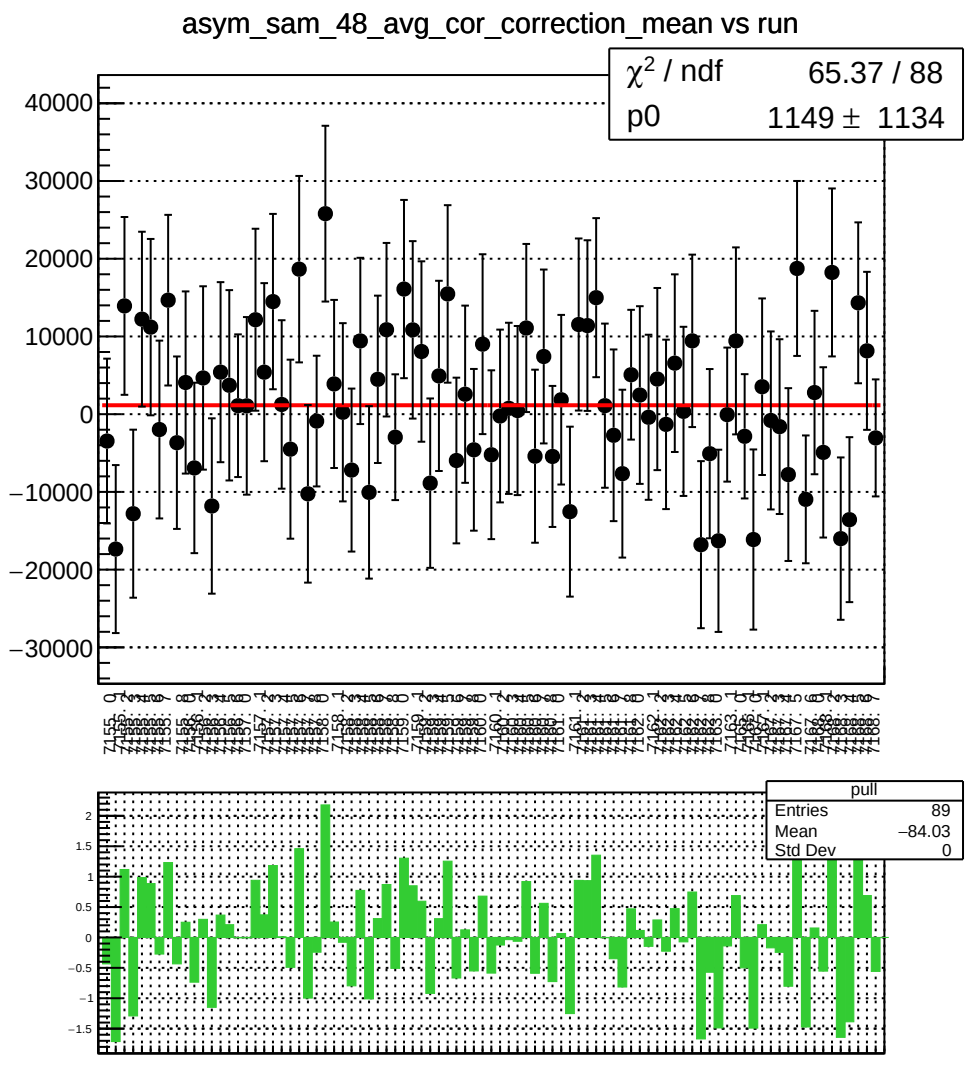

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 65.37 / 88
p0 1149 ± 1134
pull
Entries 89
Mean −84.04
Std Dev 0

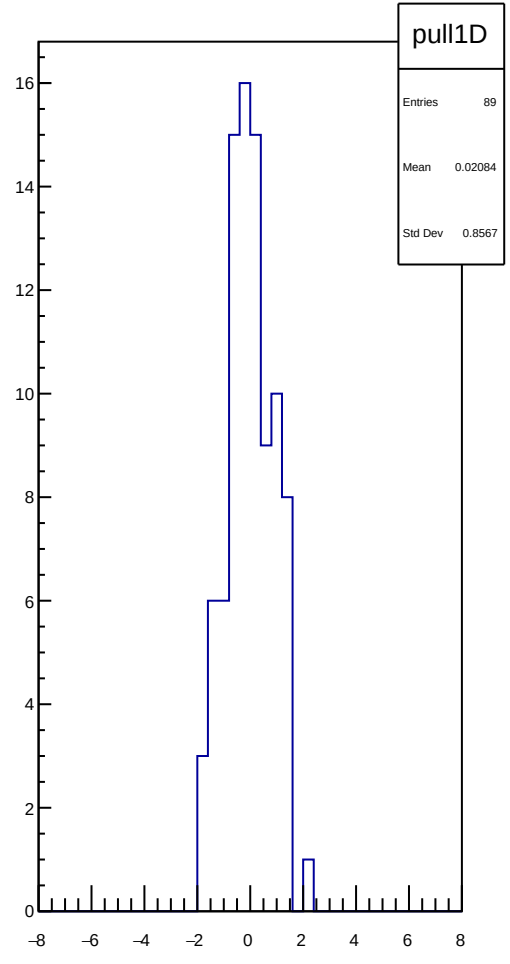

pull1D
Entries 89
Mean 0.02084
Std Dev 0.8567

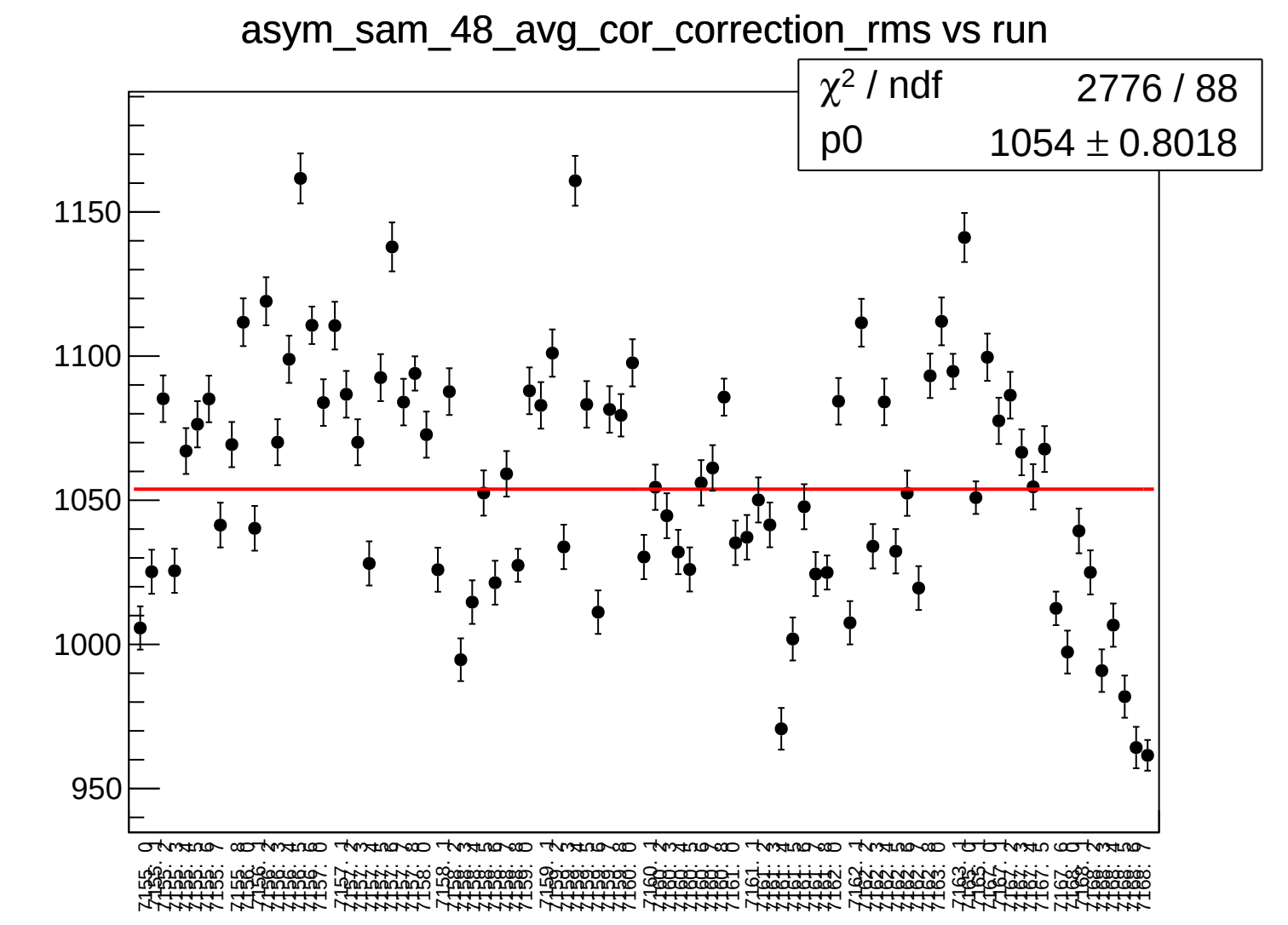

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 2776 / 88
p0 1054 ± 0.8018
1150
1100
1050
1000
950

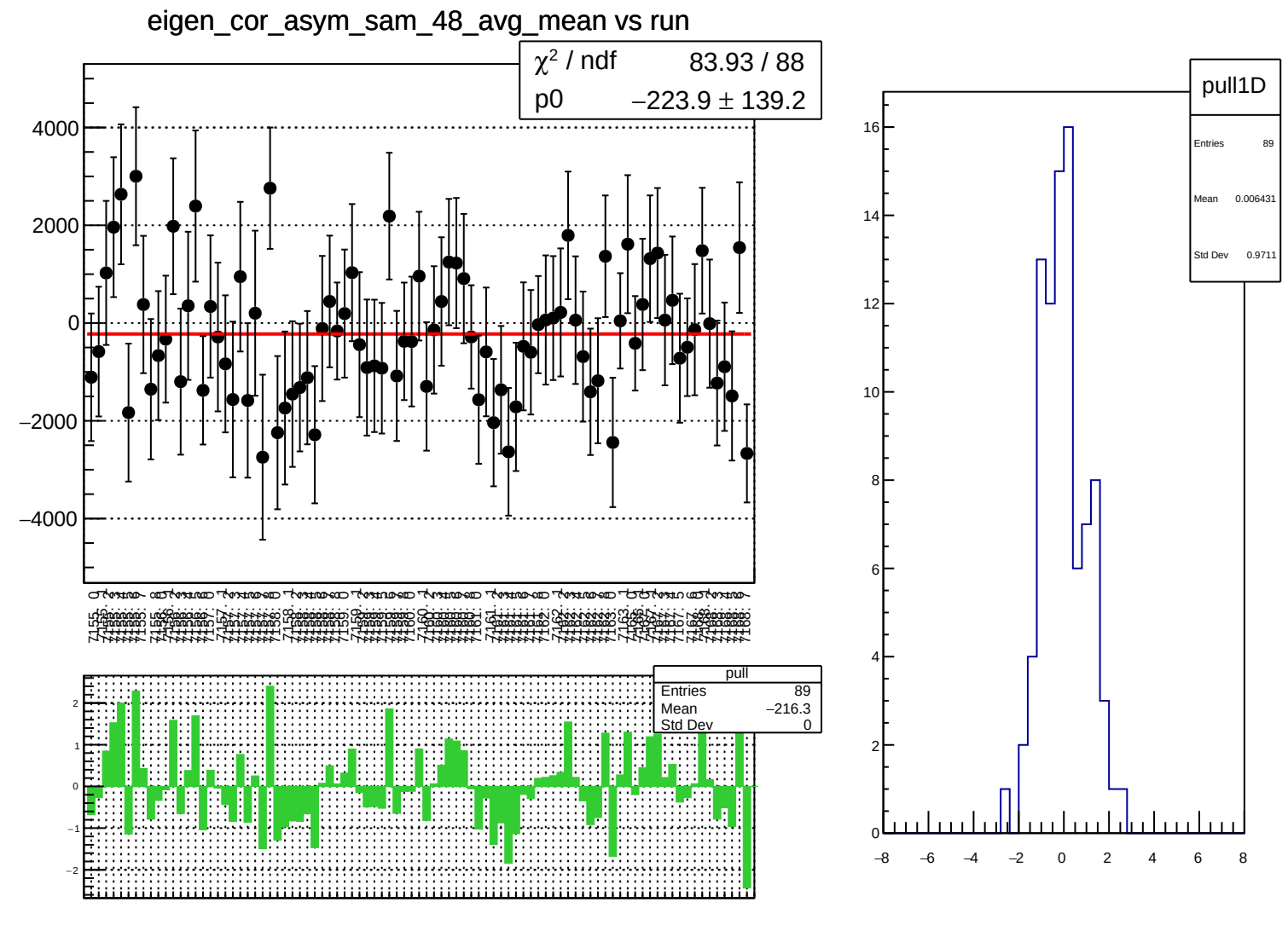

cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.93 / 88
p0 −223.9 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −216.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.006431
Std Dev 0.9711
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

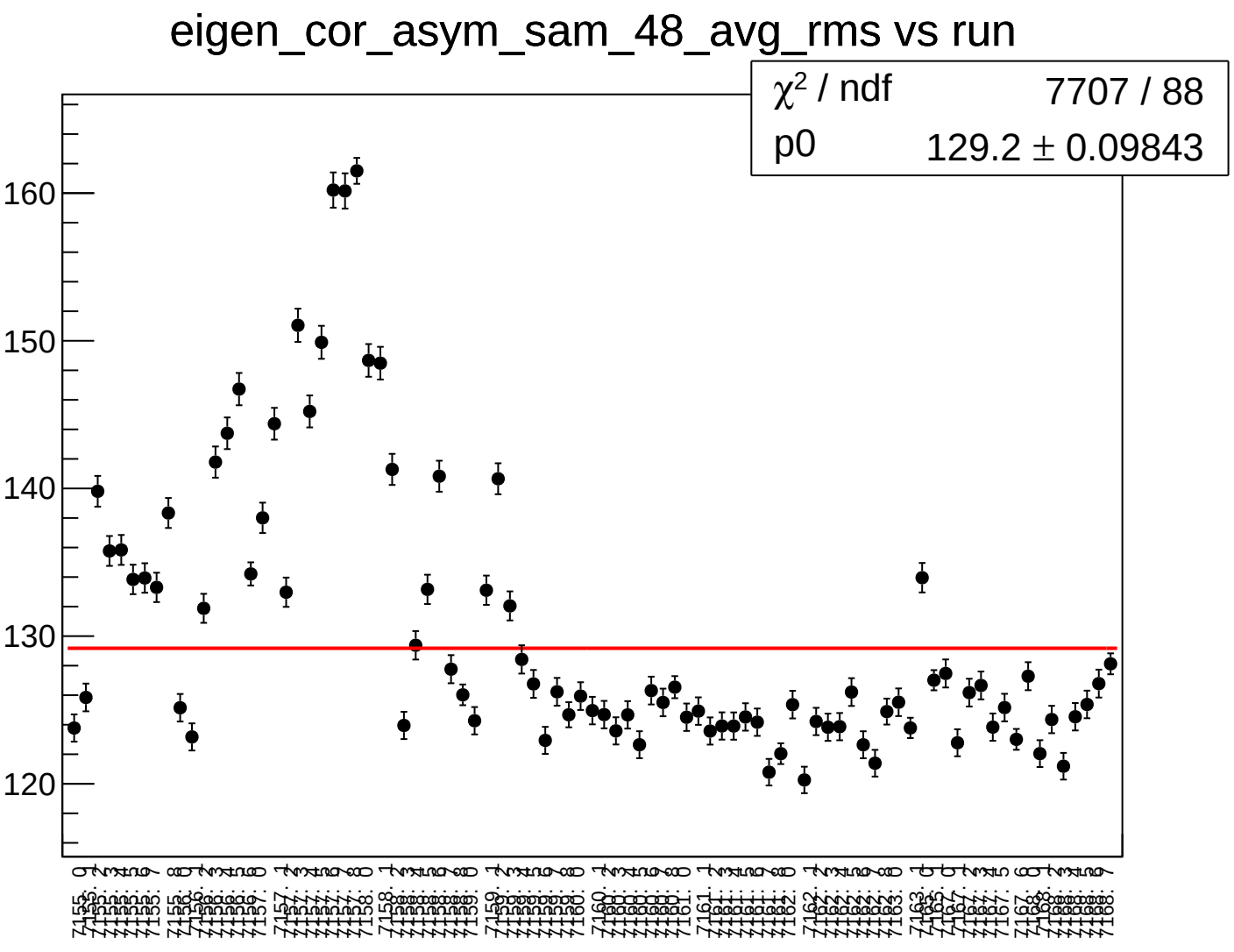

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 7707 / 88
p0 129.2 ± 0.09843
160
150
140
130
120

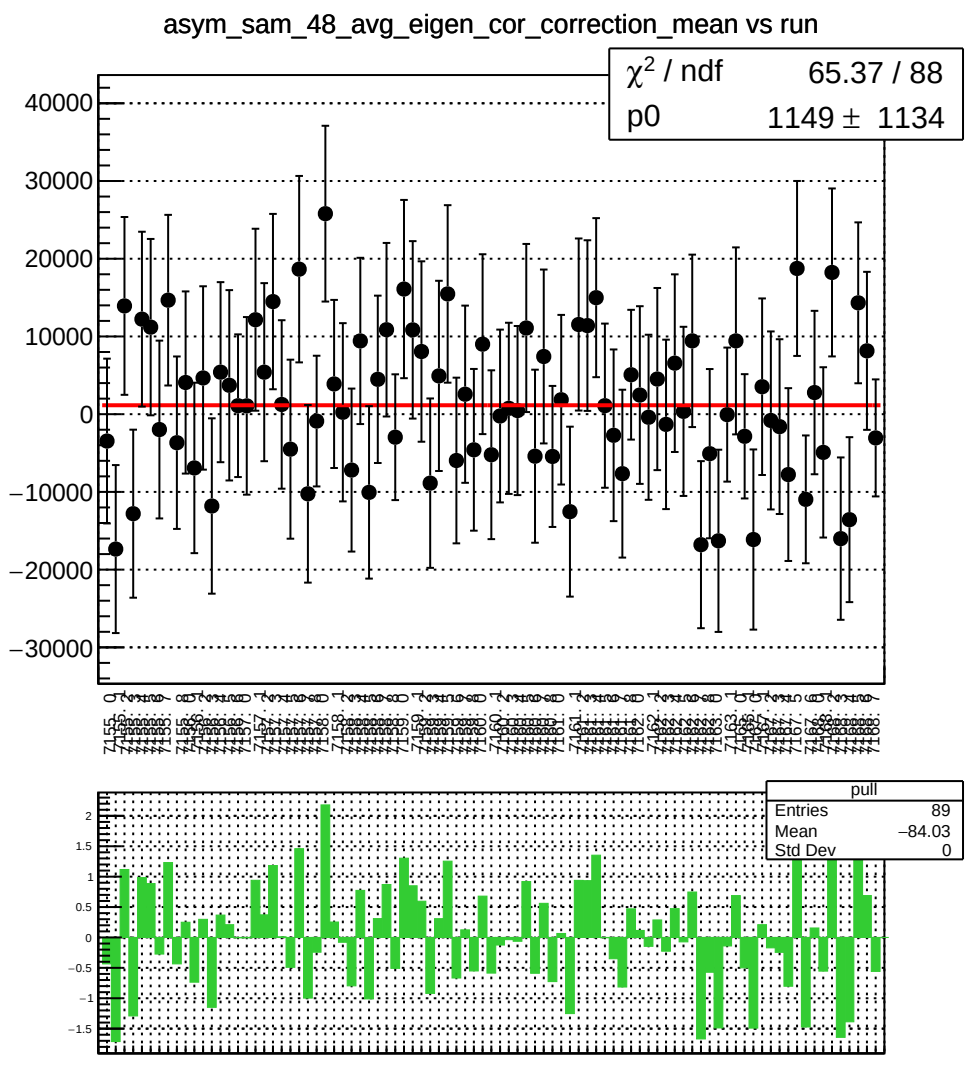

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 65.37 / 88
p0 1149 ± 1134
pull
Entries 89
Mean −84.03
Std Dev 0

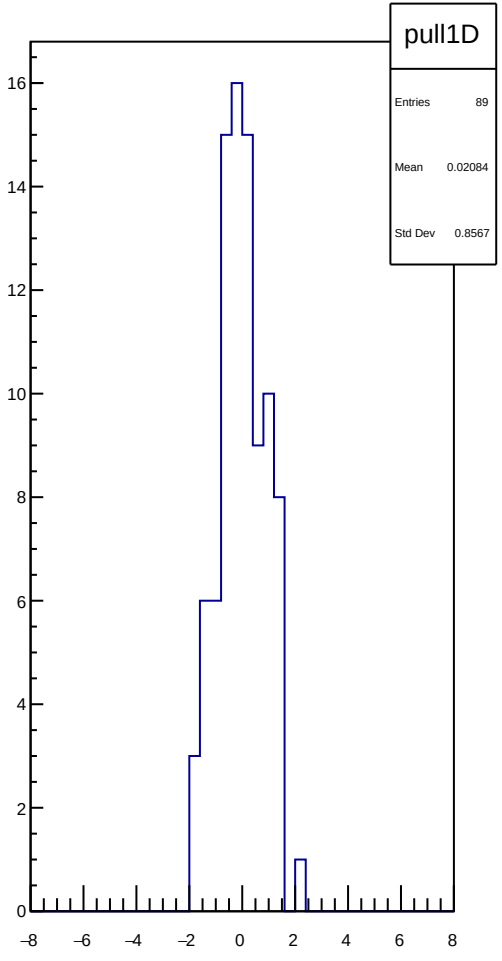

pull1D
Entries 89
Mean 0.02084
Std Dev 0.8567

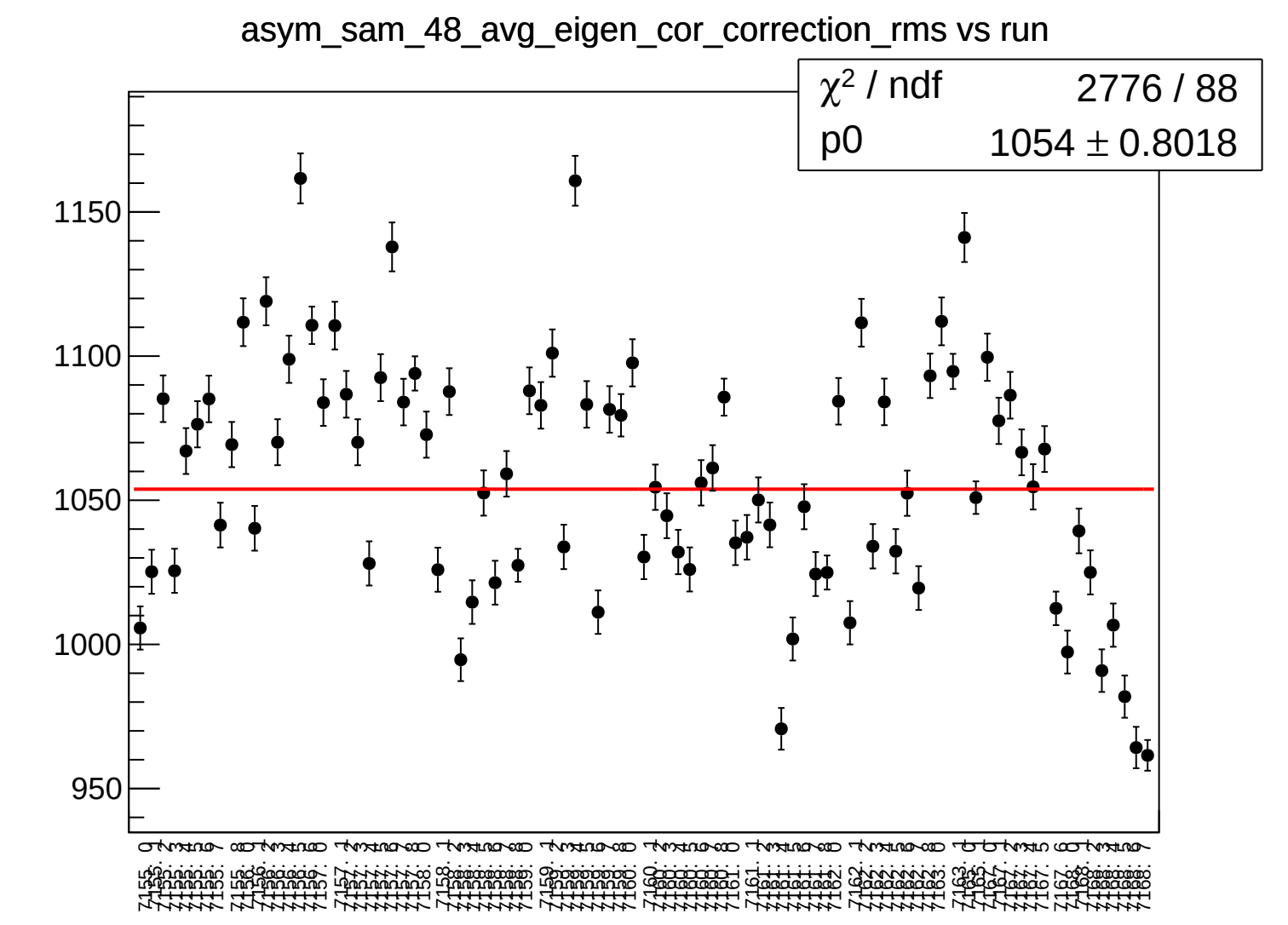

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 2776 / 88
p0 1054 ± 0.8018
1150
1100
1050
1000
950

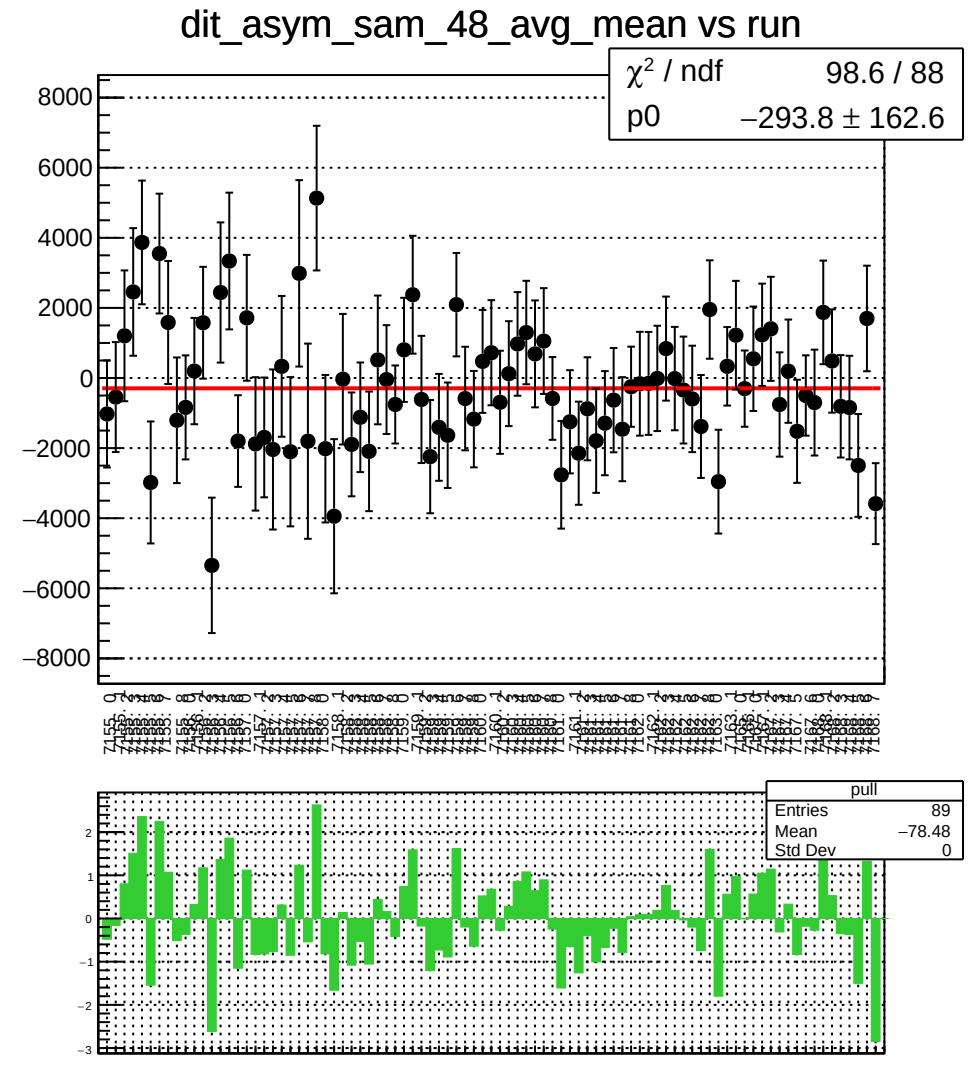

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 83.93 / 88
p0 −223.9 ± 139.2
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −216.3
Std Dev 0
pull1D
Entries 89
Mean 0.006431
Std Dev 0.9711

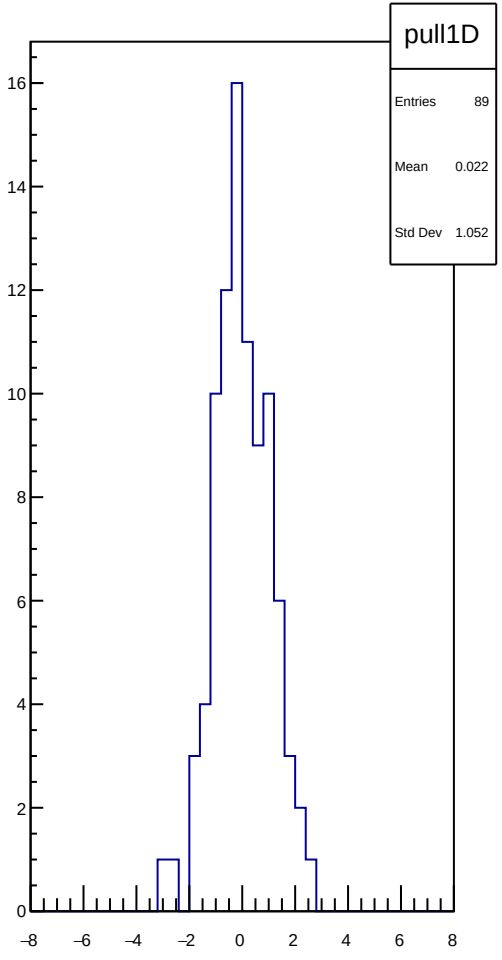

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 7707 / 88
p0 129.2 ± 0.09843
160
150
140
130
120

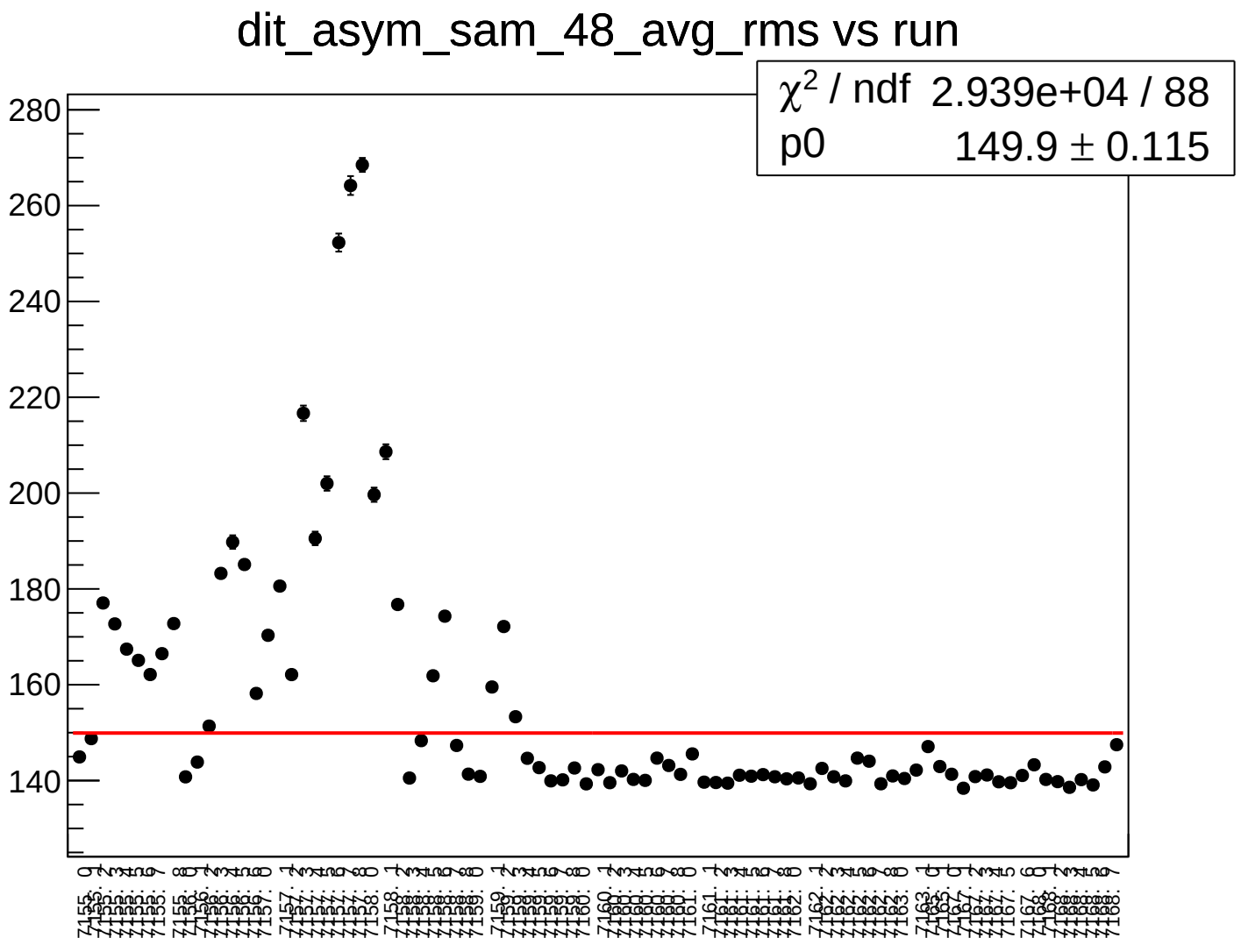

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.37 / 88
p0 1149 ± 1134
pull
Entries 89
Mean −84.03
Std Dev 0

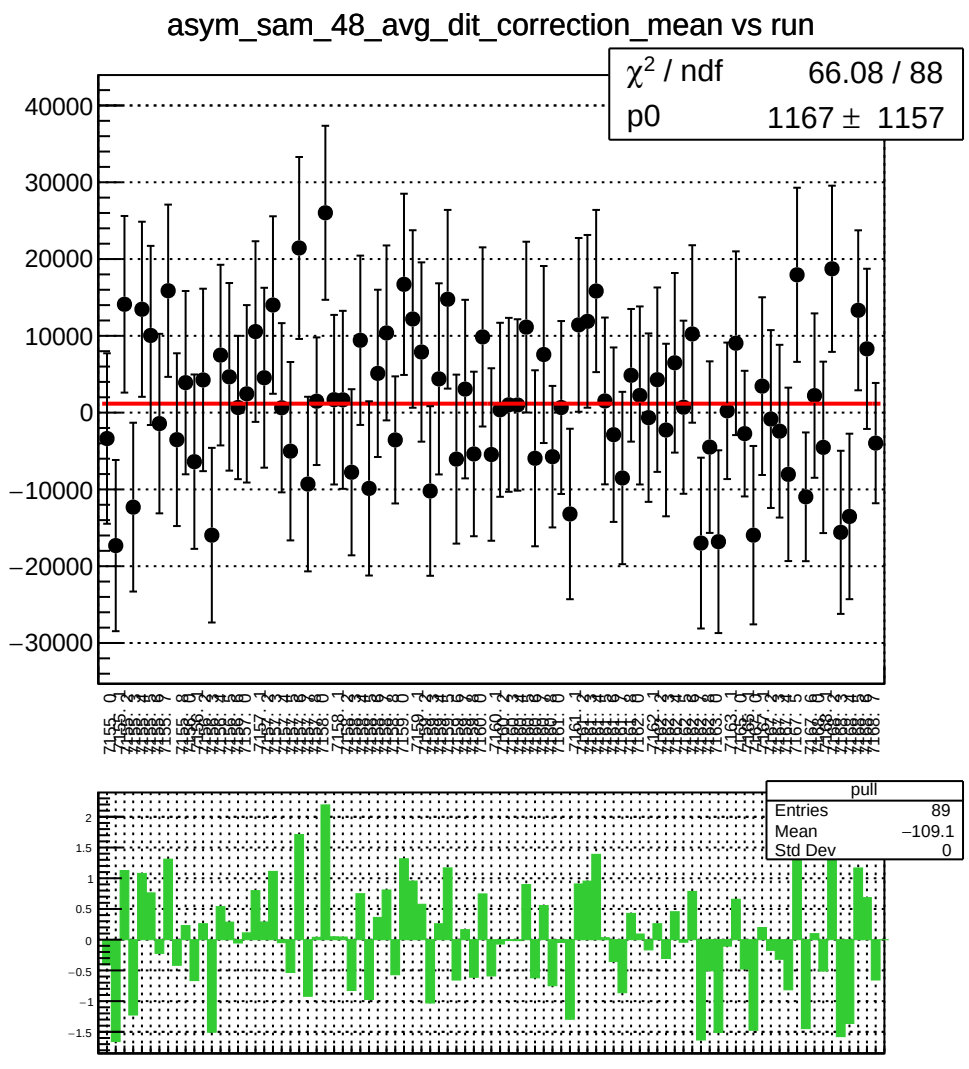

pull1D
Entries 89
Mean 0.02084
Std Dev 0.8567

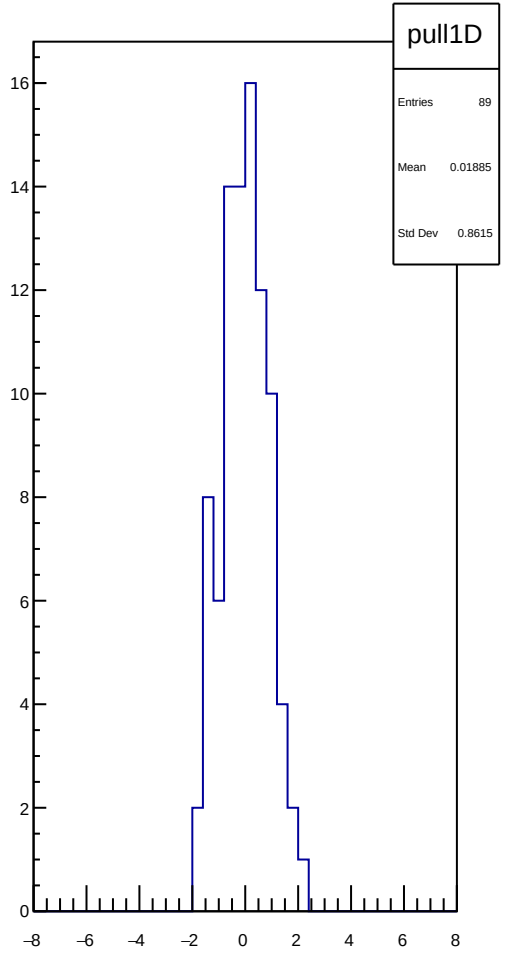

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 2776 / 88
p0 1054 ± 0.8018
1150
1100
1050
1000
950

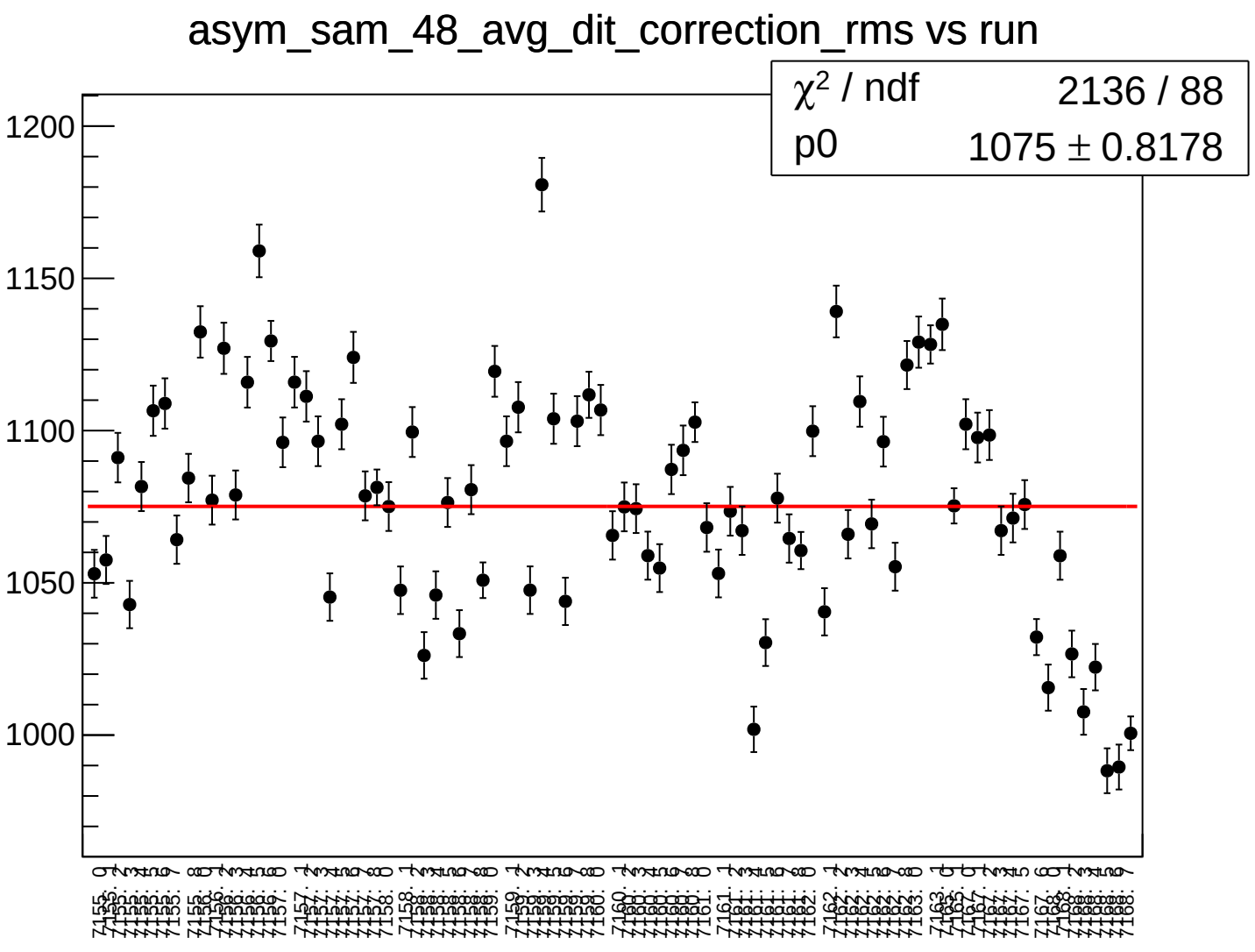

dit_asym_sam_48_avg_mean vs run
χ² / ndf 98.6 / 88
p0 −293.8 ± 162.6
pull
Entries 89
Mean −78.48
Std Dev 0

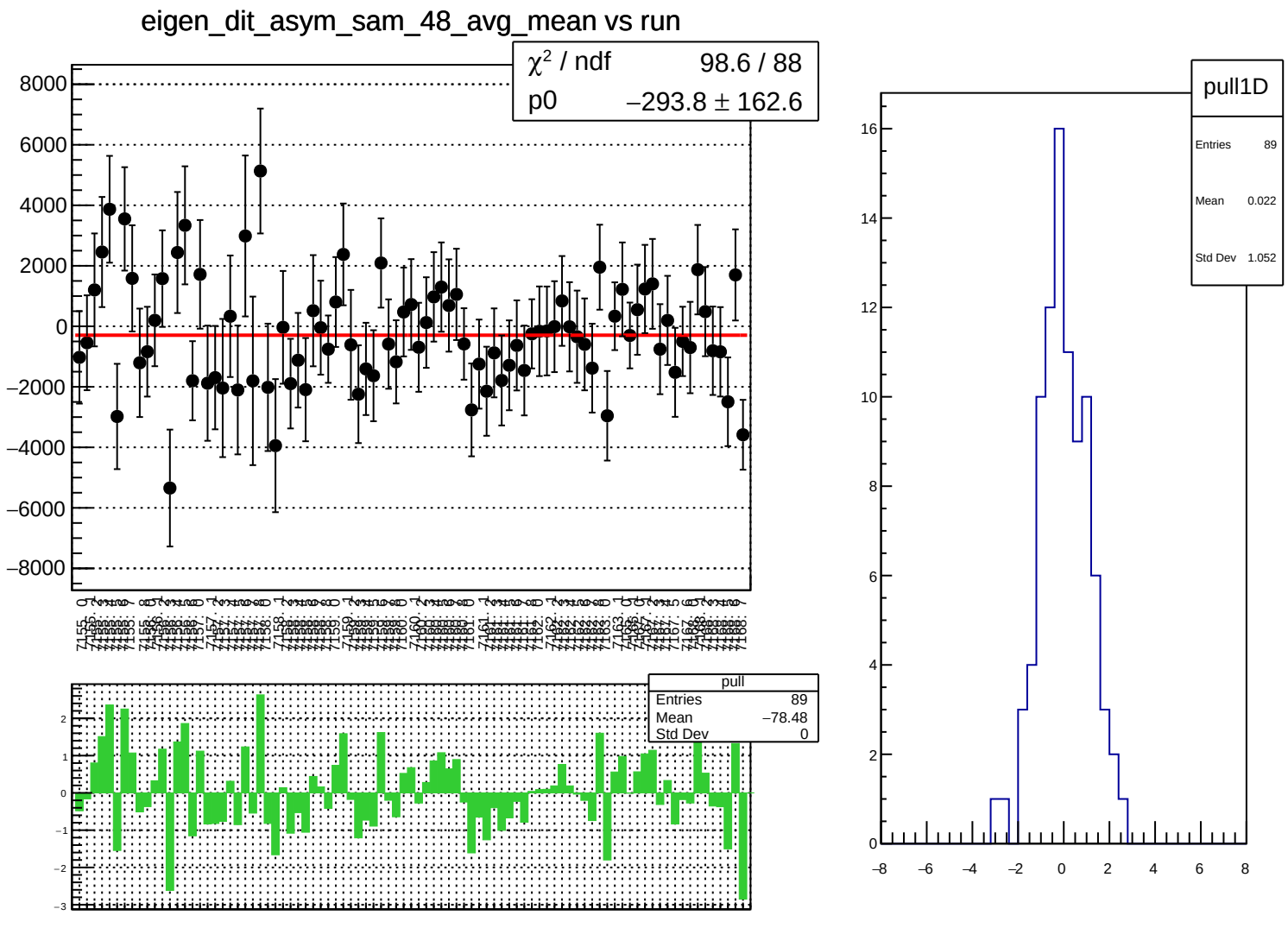

pull1D
Entries 89
Mean 0.022
Std Dev 1.052

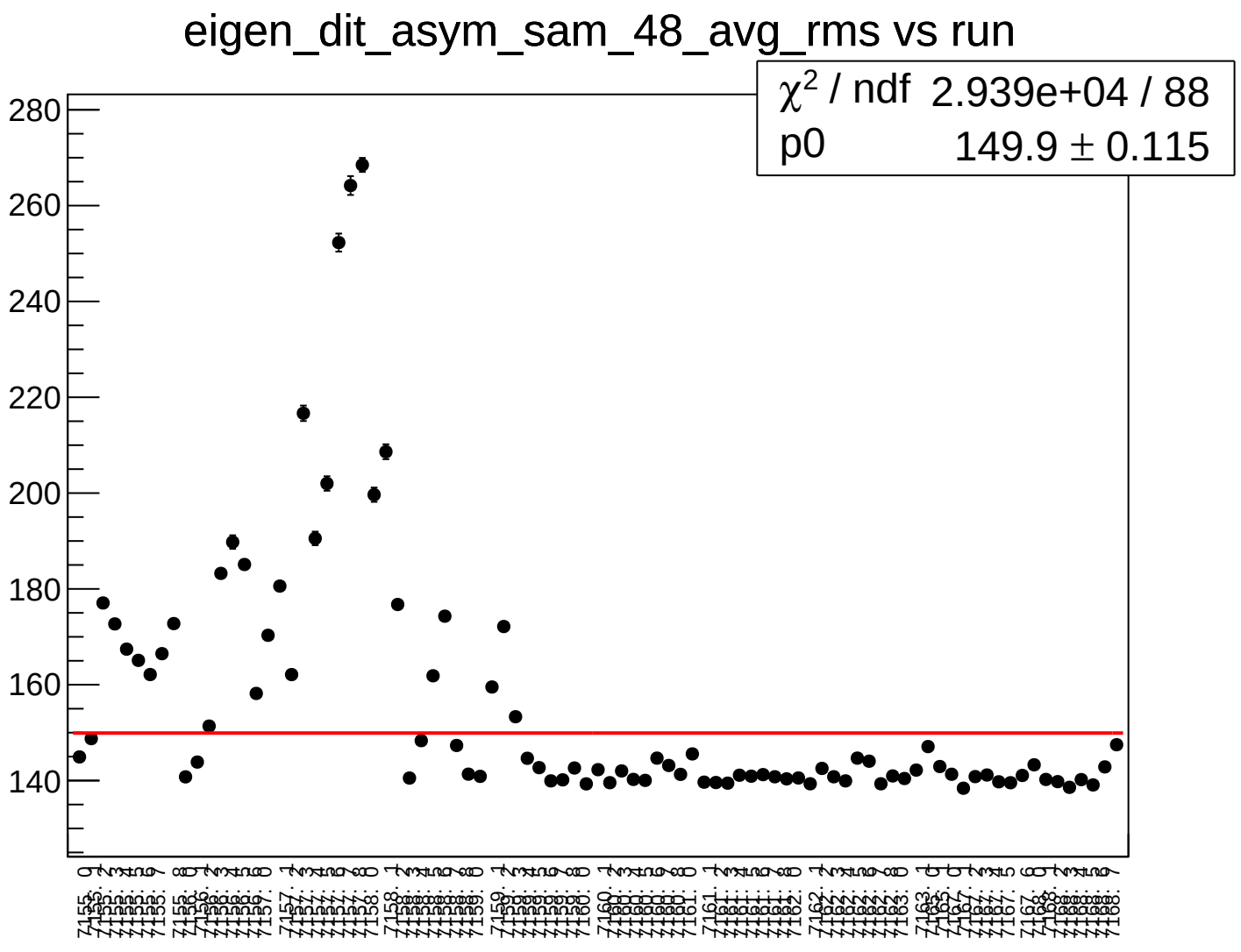

dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.939e+04 / 88
p0 149.9 ± 0.115
280
260
240
220
200
180
160
140

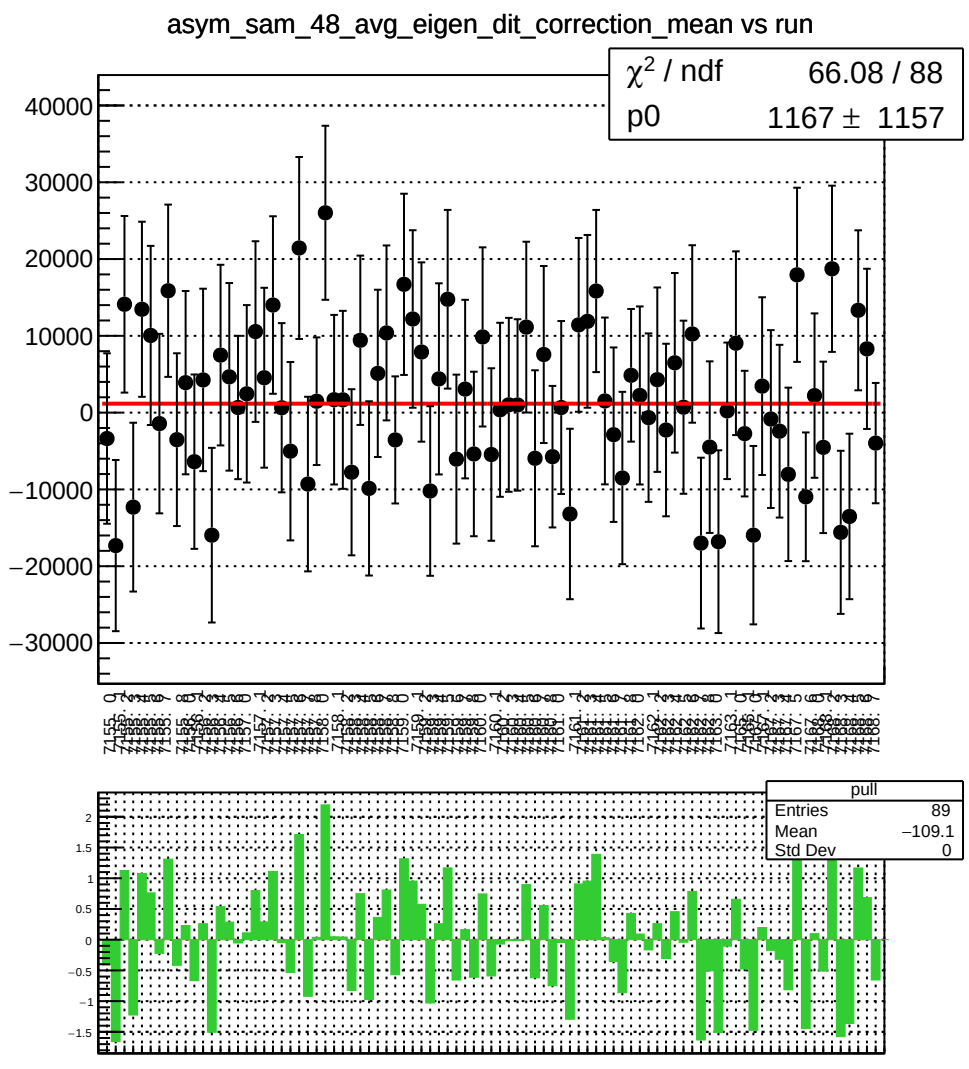

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 66.08 / 88
p0 1167 ± 1157
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −109.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

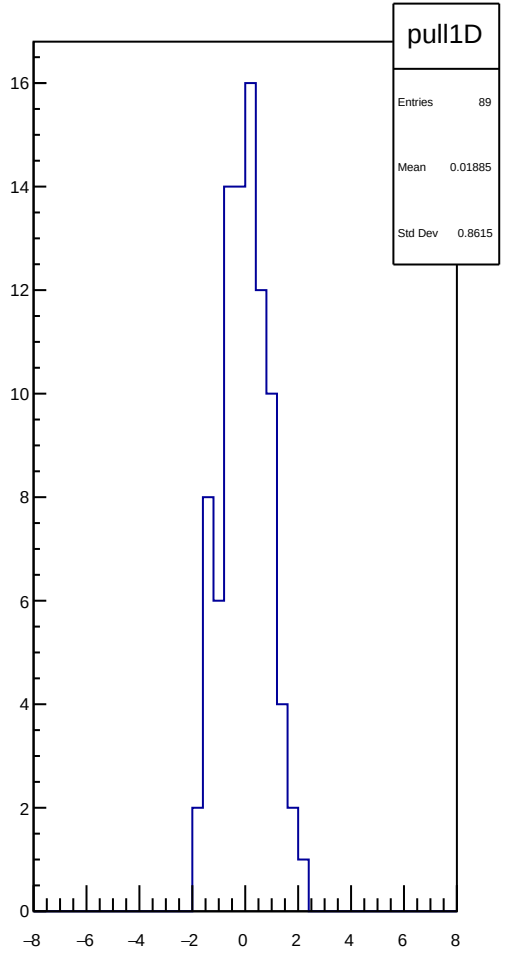

pull1D
Entries 89
Mean 0.01885
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

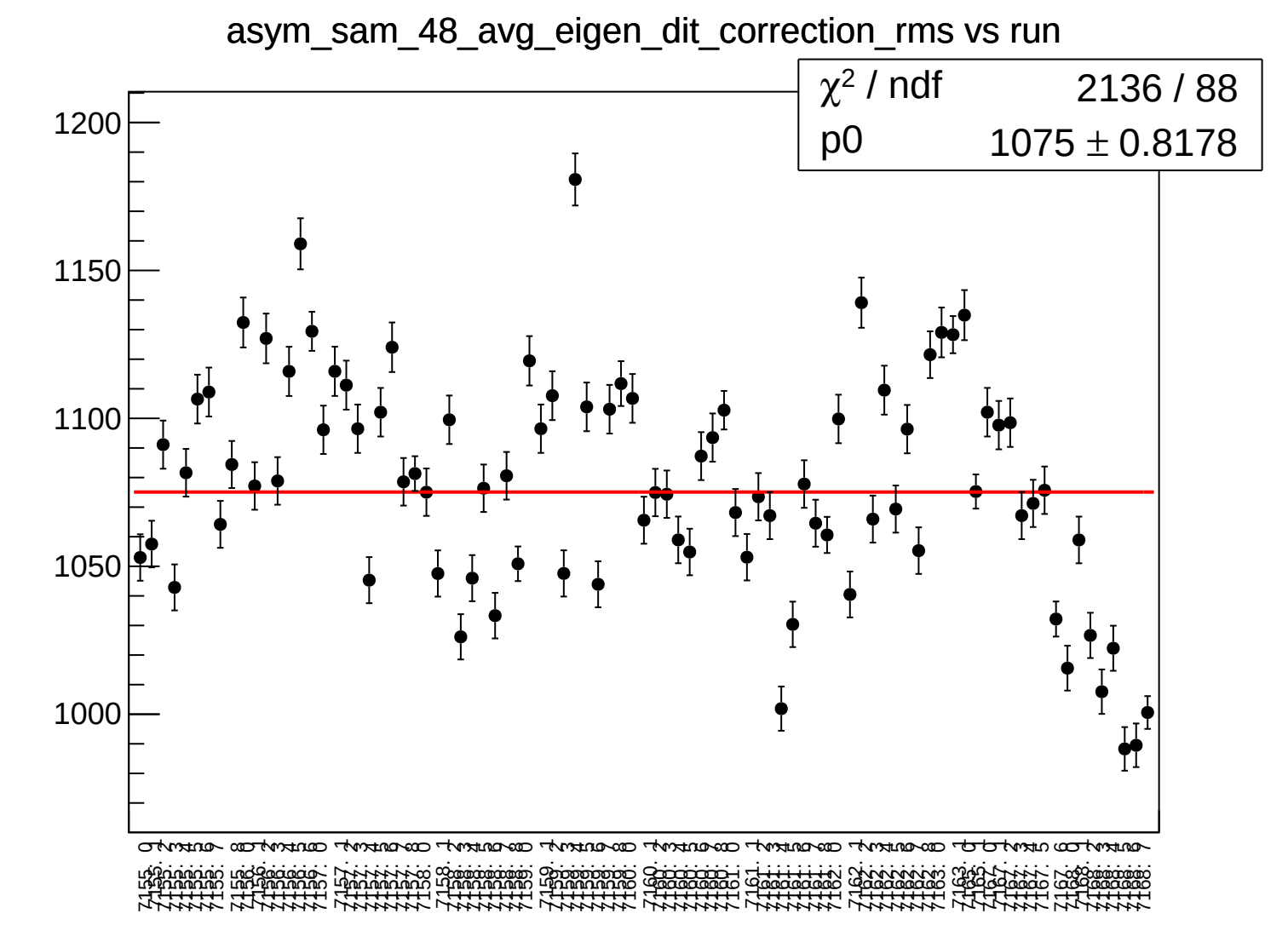

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 2136 / 88
p0 1075 ± 0.8178
1200
1150
1100
1050
1000

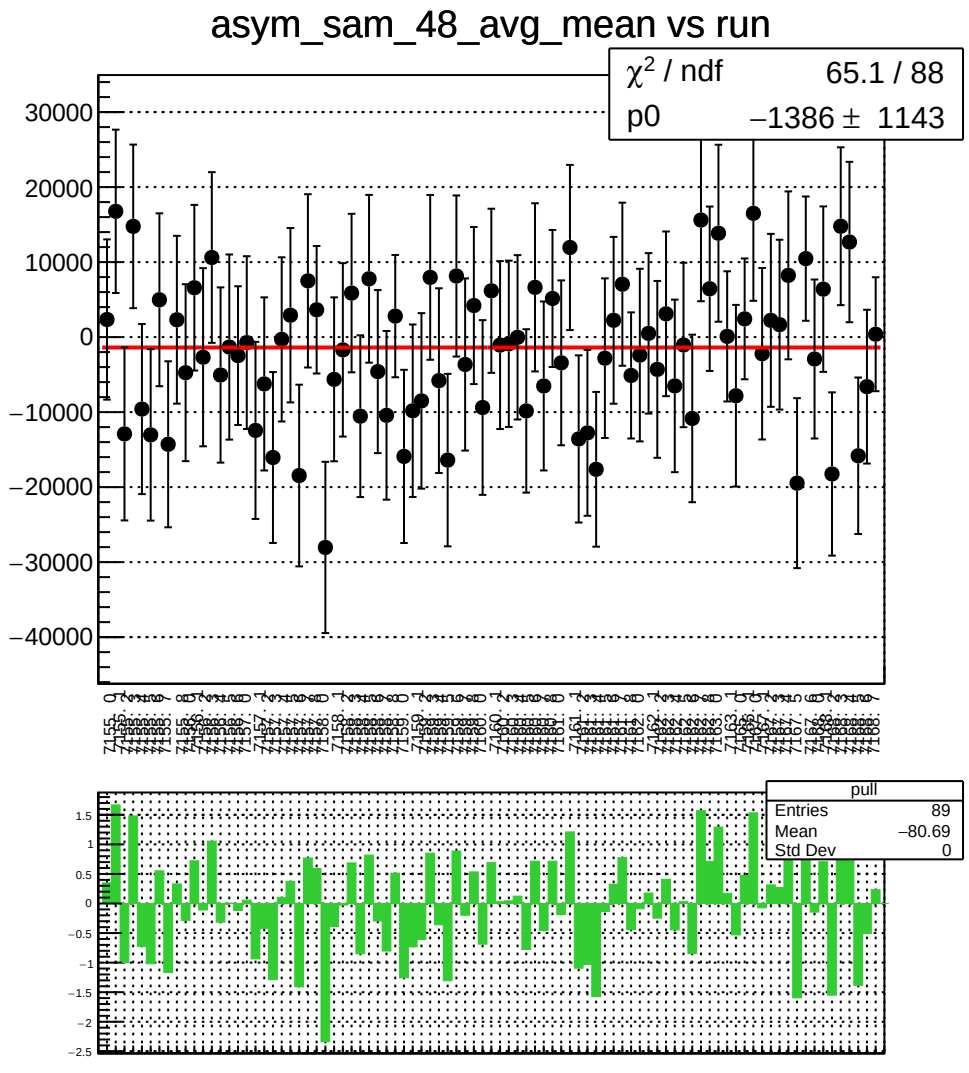

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 98.6 / 88
p0 −293.8 ± 162.6
pull
Entries 89
Mean −78.48
Std Dev 0
pull1D
Entries 89
Mean 0.022
Std Dev 1.052

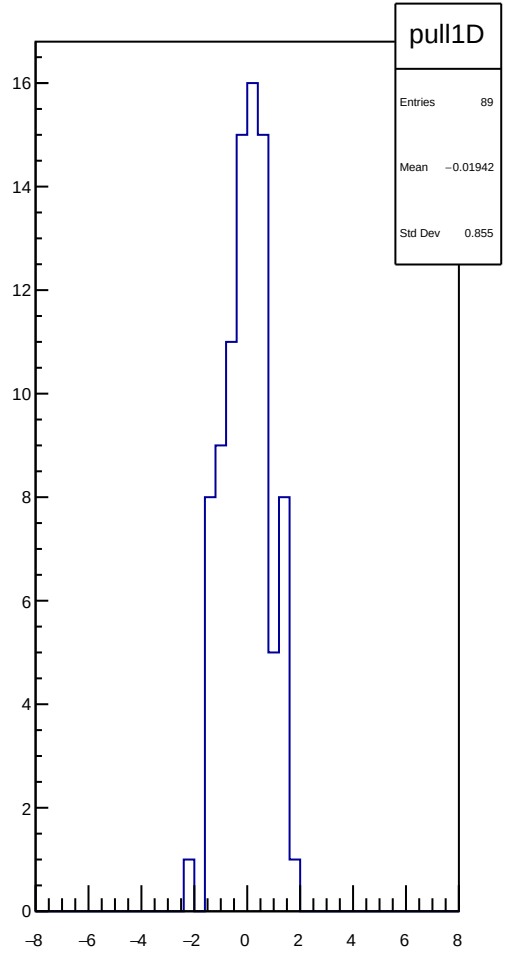

eigen_dit_asym_sam_48_avg_rms vs run
χ^2 / ndf 2.939e+04 / 88
p0 149.9 ± 0.115
280
260
240
220
200
180
160
140

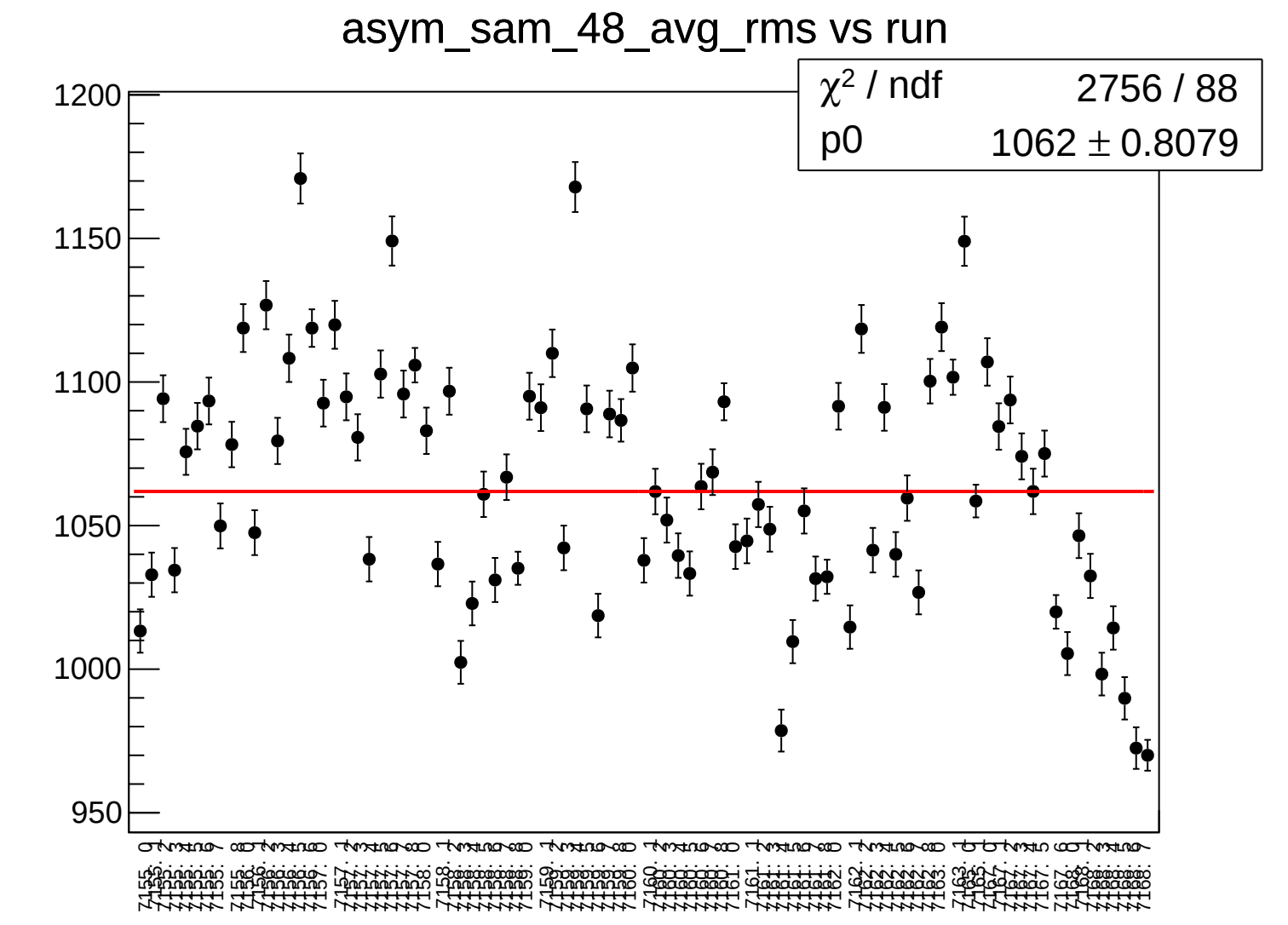

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.08 / 88
p0 1167 ± 1157
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −109.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

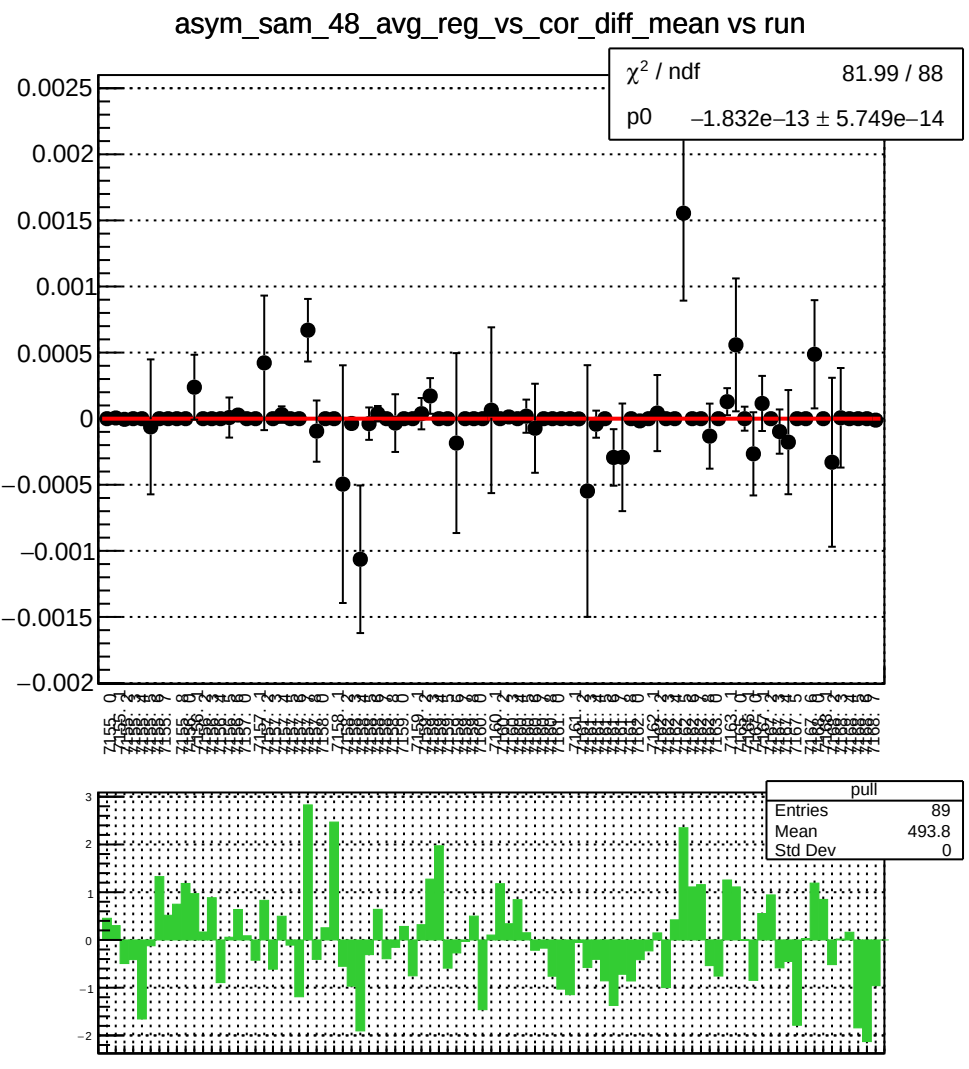

pull1D
Entries 89
Mean 0.01885
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

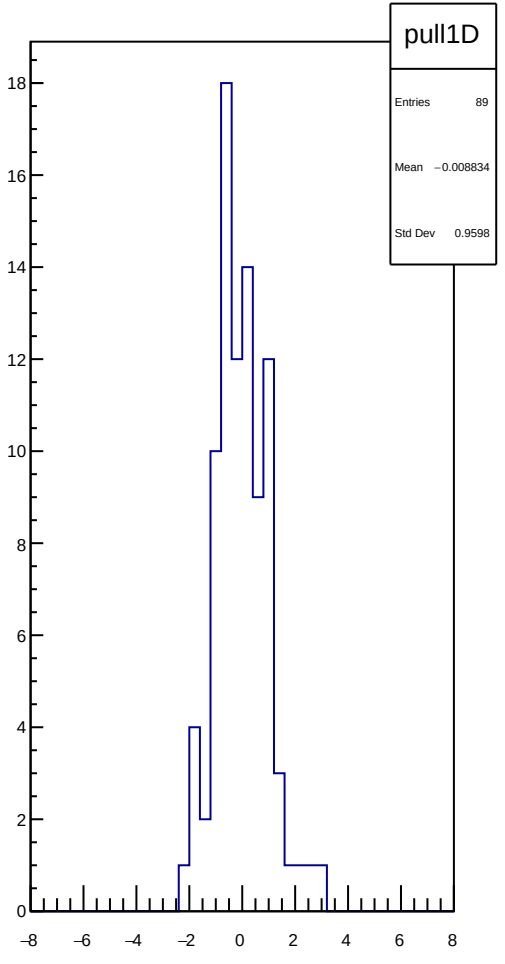

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 2136 / 88
p0 1075 ± 0.8178
1200
1150
1100
1050
1000

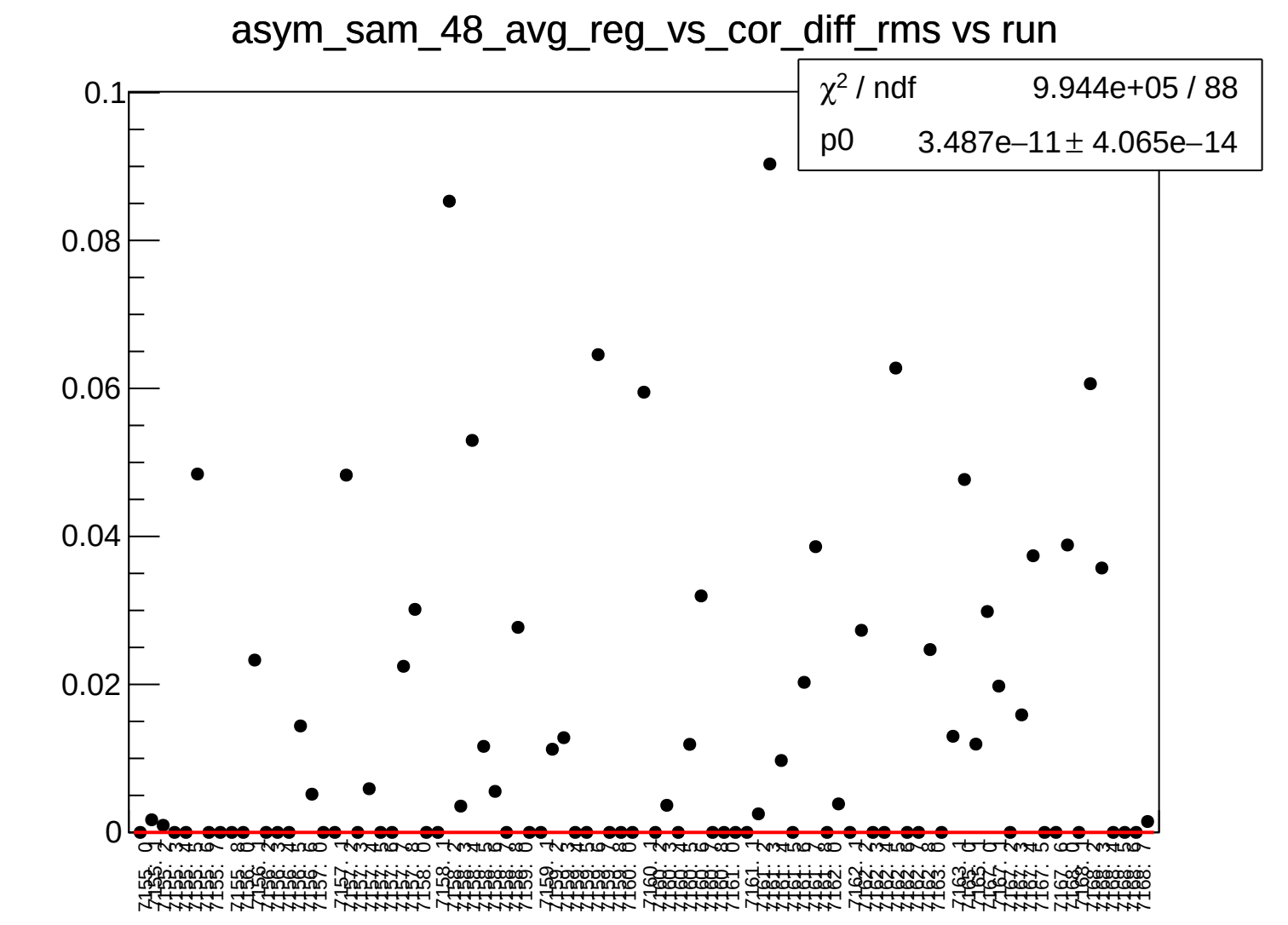

asym_sam_48_avg_mean vs run
χ² / ndf 65.1 / 88
p0 −1386 ± 1143
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 89
Mean −80.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

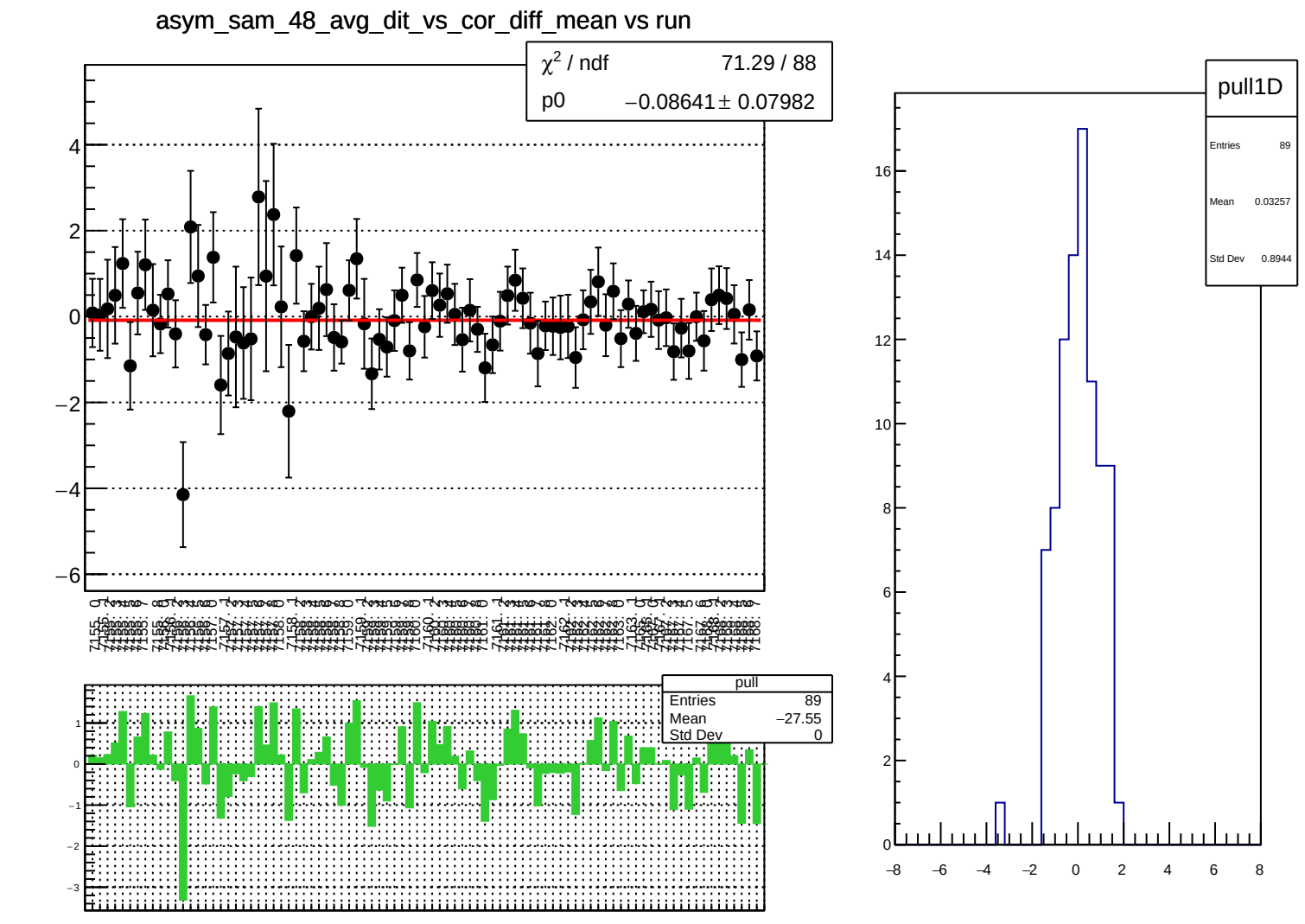

pull1D
Entries 89
Mean −0.01942
Std Dev 0.855
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

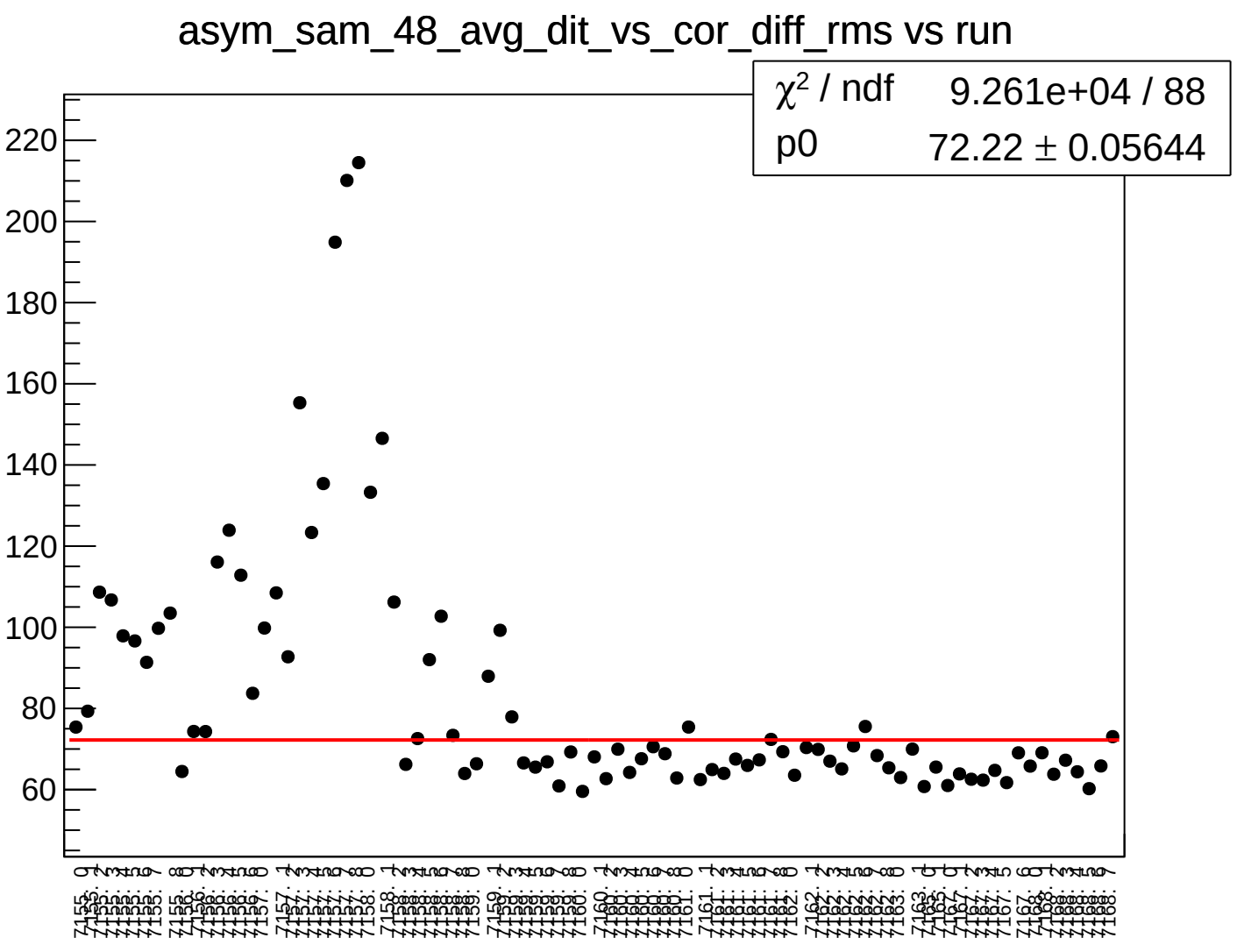

asym_sam_48_avg_rms vs run
χ² / ndf 2756 / 88
p0 1062 ± 0.8079
1200
1150
1100
1050
1000
950

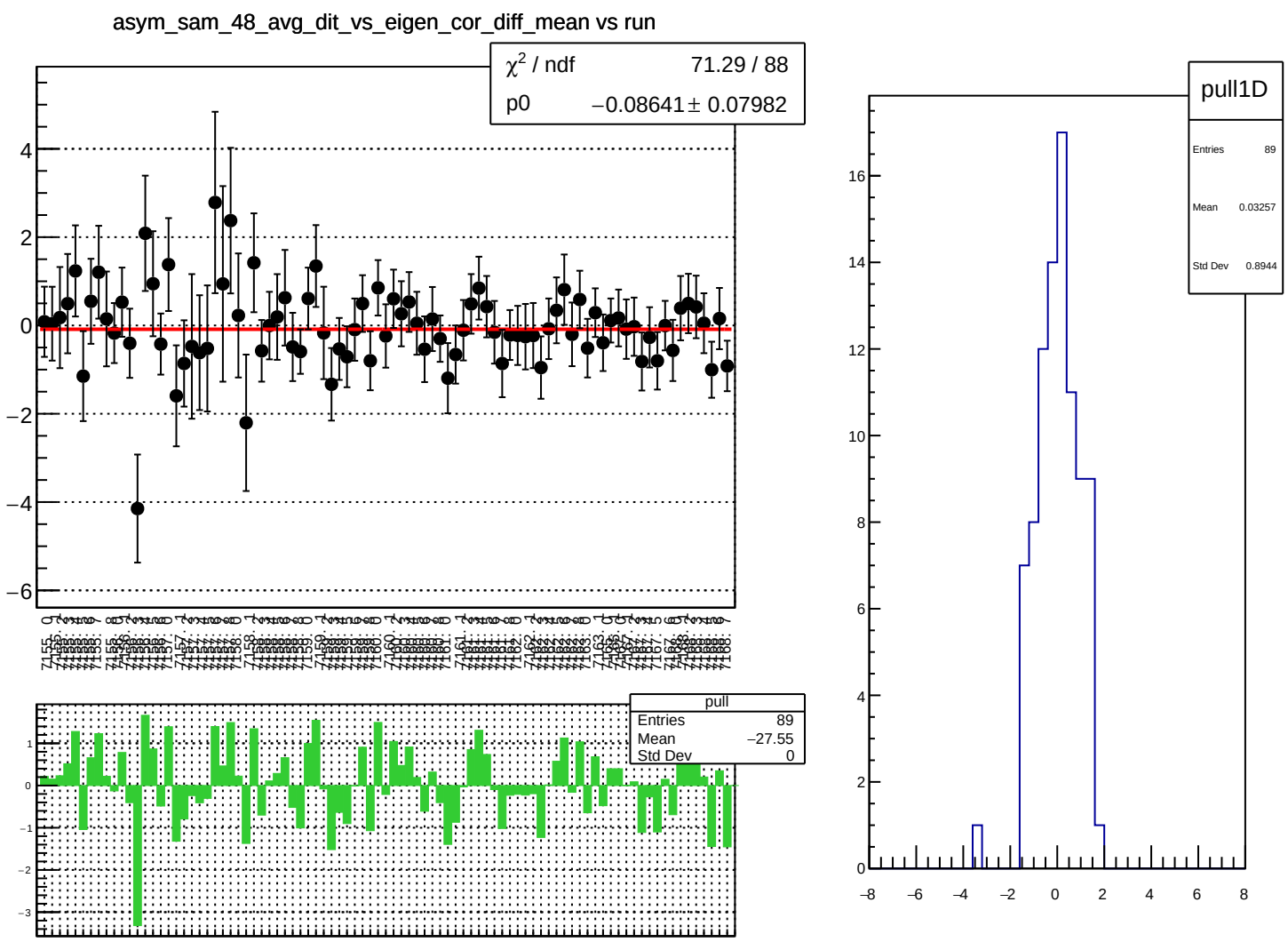

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.99 / 88
p0 −1.832e−13 ± 5.749e−14
pull
Entries 89
Mean 493.8
Std Dev 0

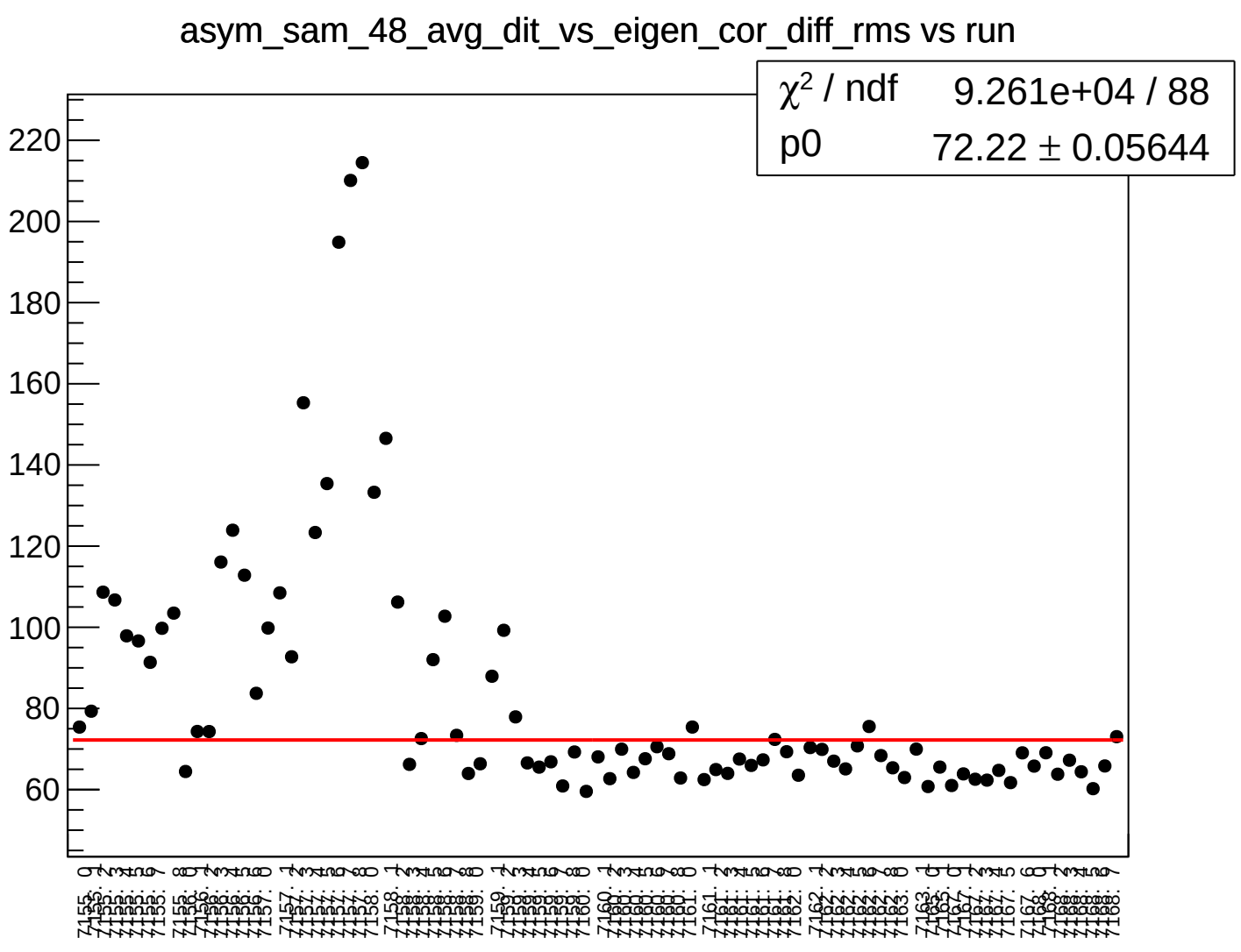

pull1D
Entries 89
Mean −0.008834
Std Dev 0.9598

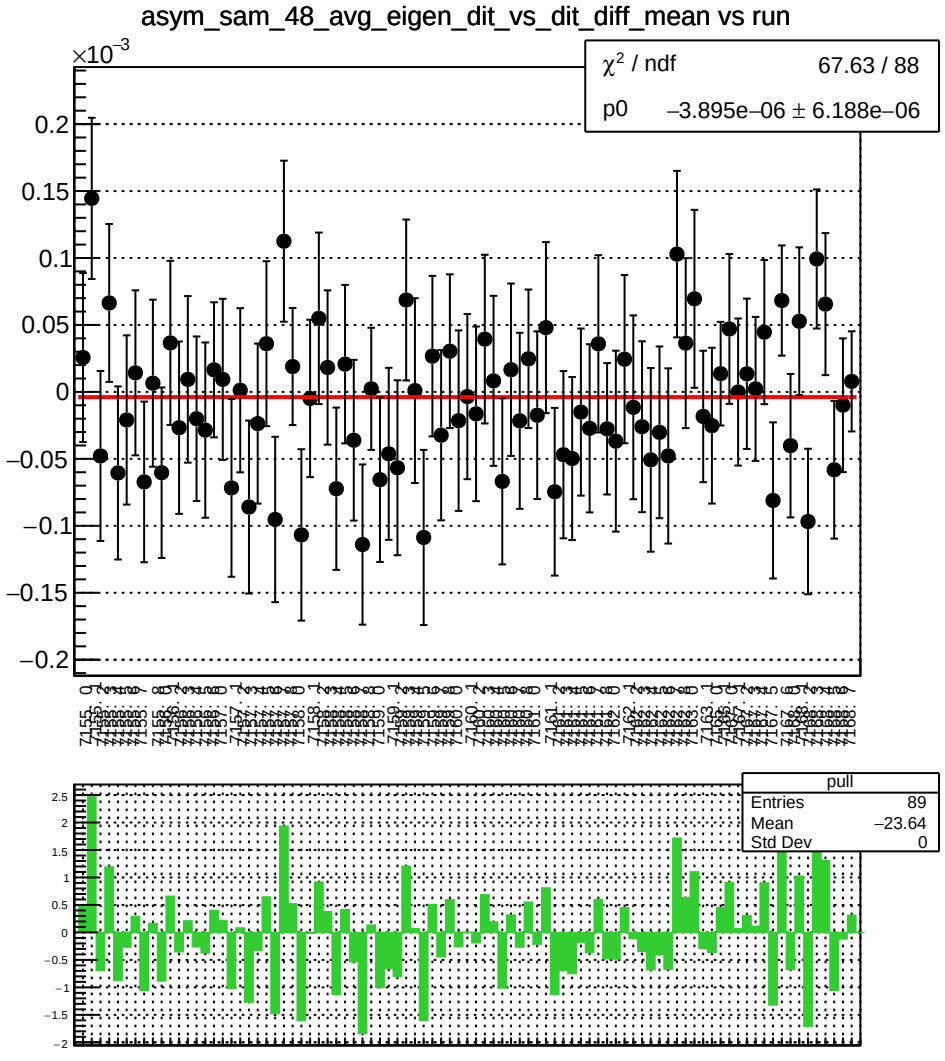

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.944e+05 / 88
p0 3.487e−11 ± 4.065e−14
0.1
0.08
0.06
0.04
0.02
0

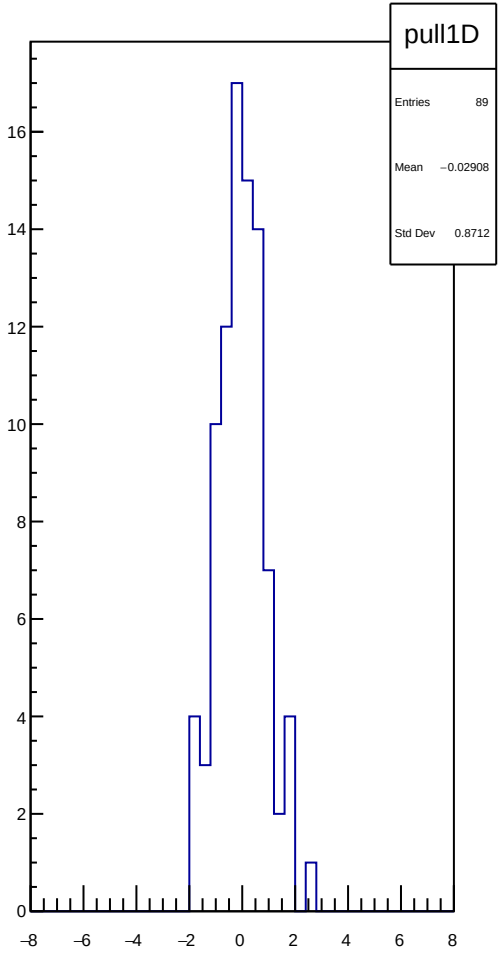

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 88
p0 −0.08641 ± 0.07982
pull
Entries 89
Mean −27.55
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 0.8944

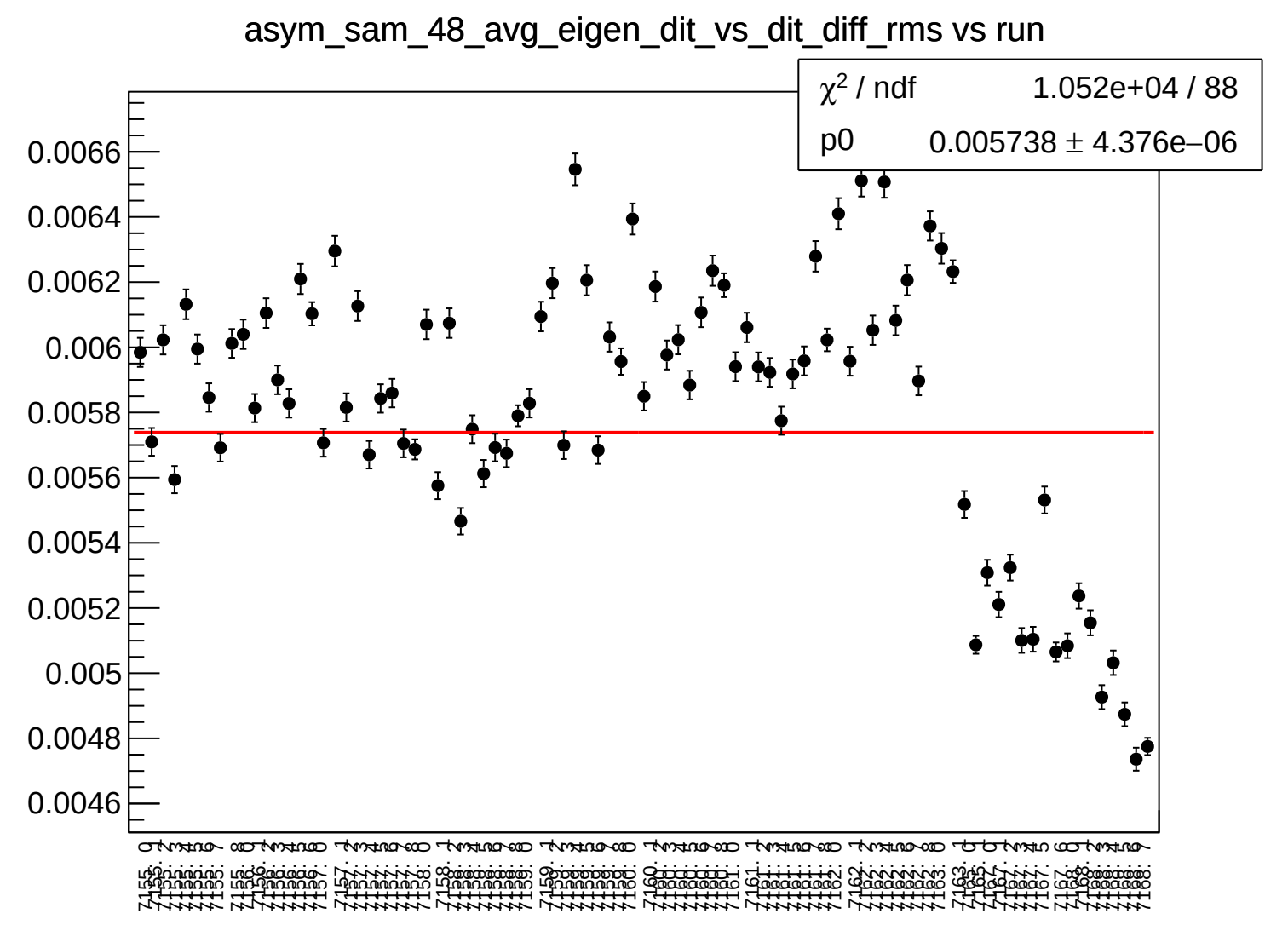

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.261e+04 / 88
p0 72.22 ± 0.05644
220
200
180
160
140
120
100
80
60

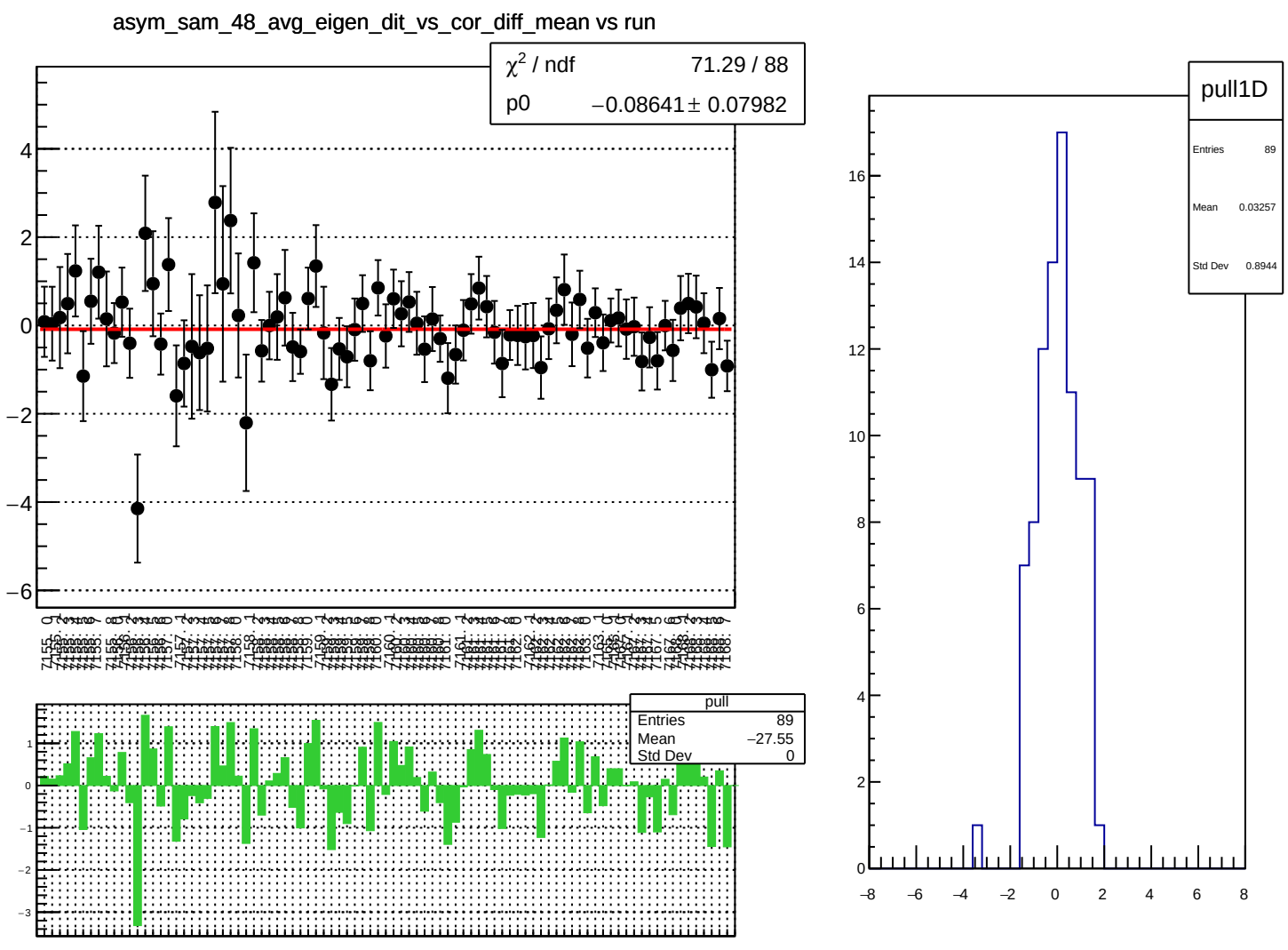

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.29 / 88
p0 −0.08641 ± 0.07982
pull
Entries 89
Mean −27.55
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 0.8944

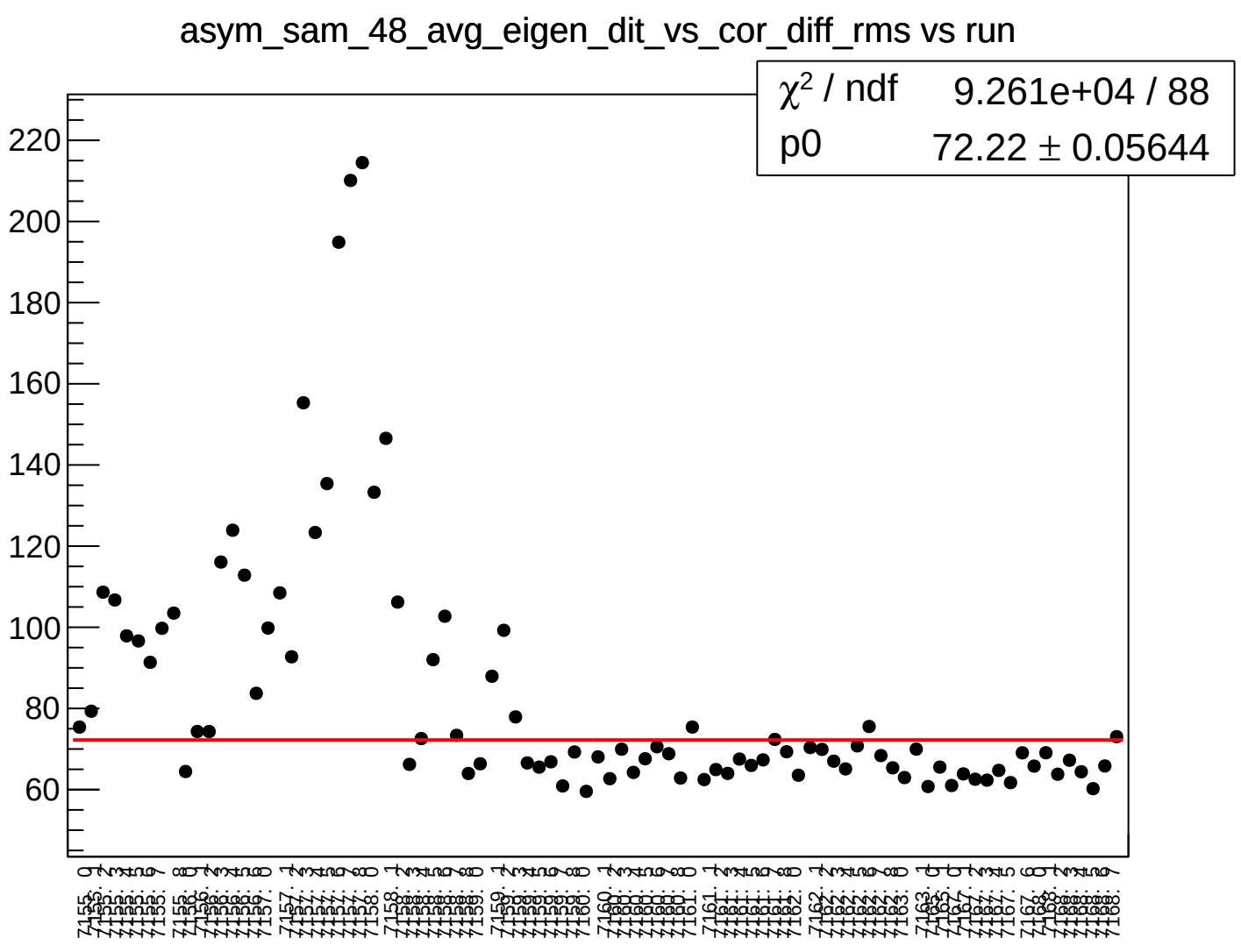

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.261e+04 / 88
p0 72.22 ± 0.05644
220
200
180
160
140
120
100
80
60

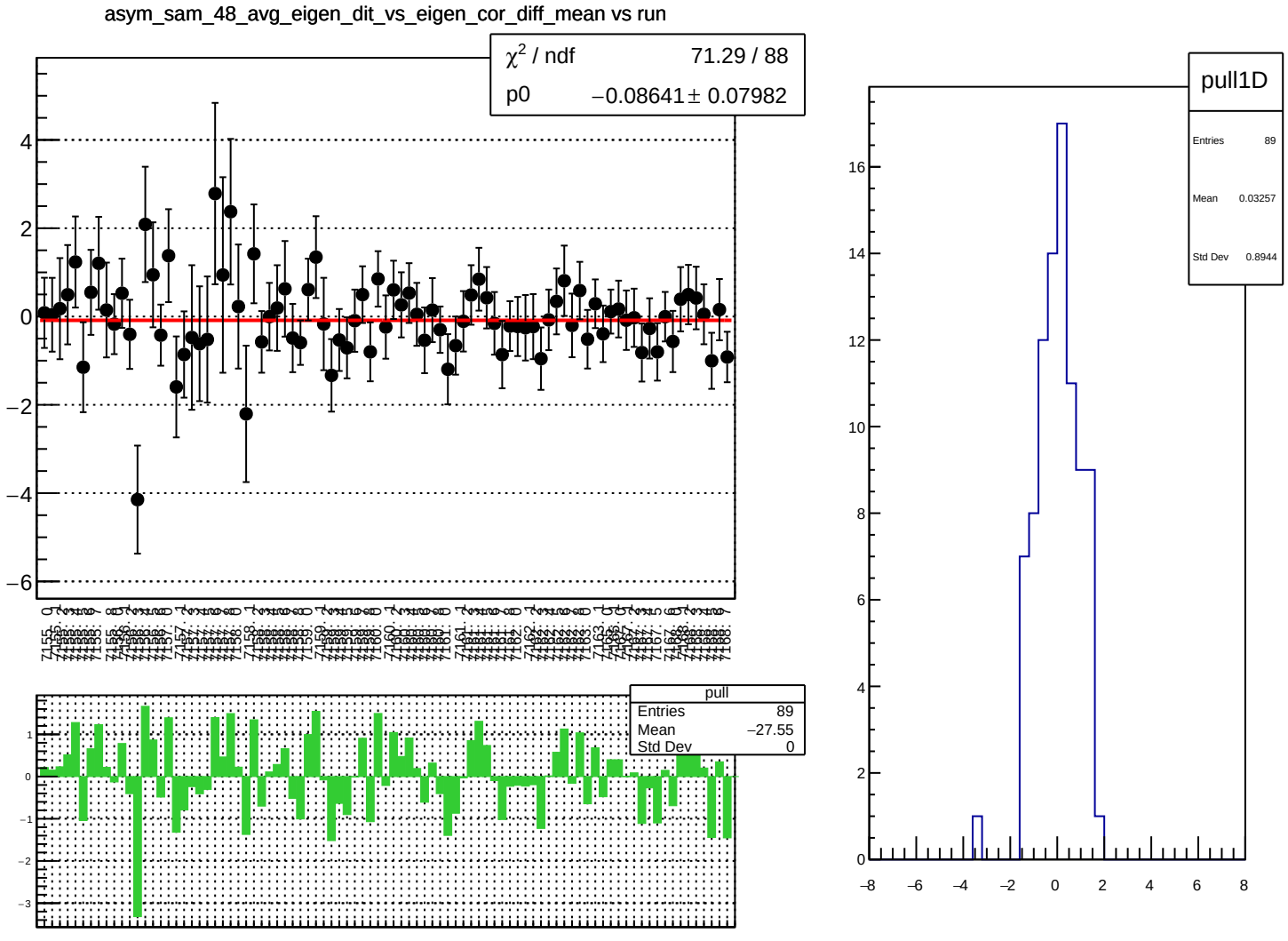

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.63 / 88
p0 −3.895e−06 ± 6.188e−06
pull
Entries 89
Mean −23.64
Std Dev 0

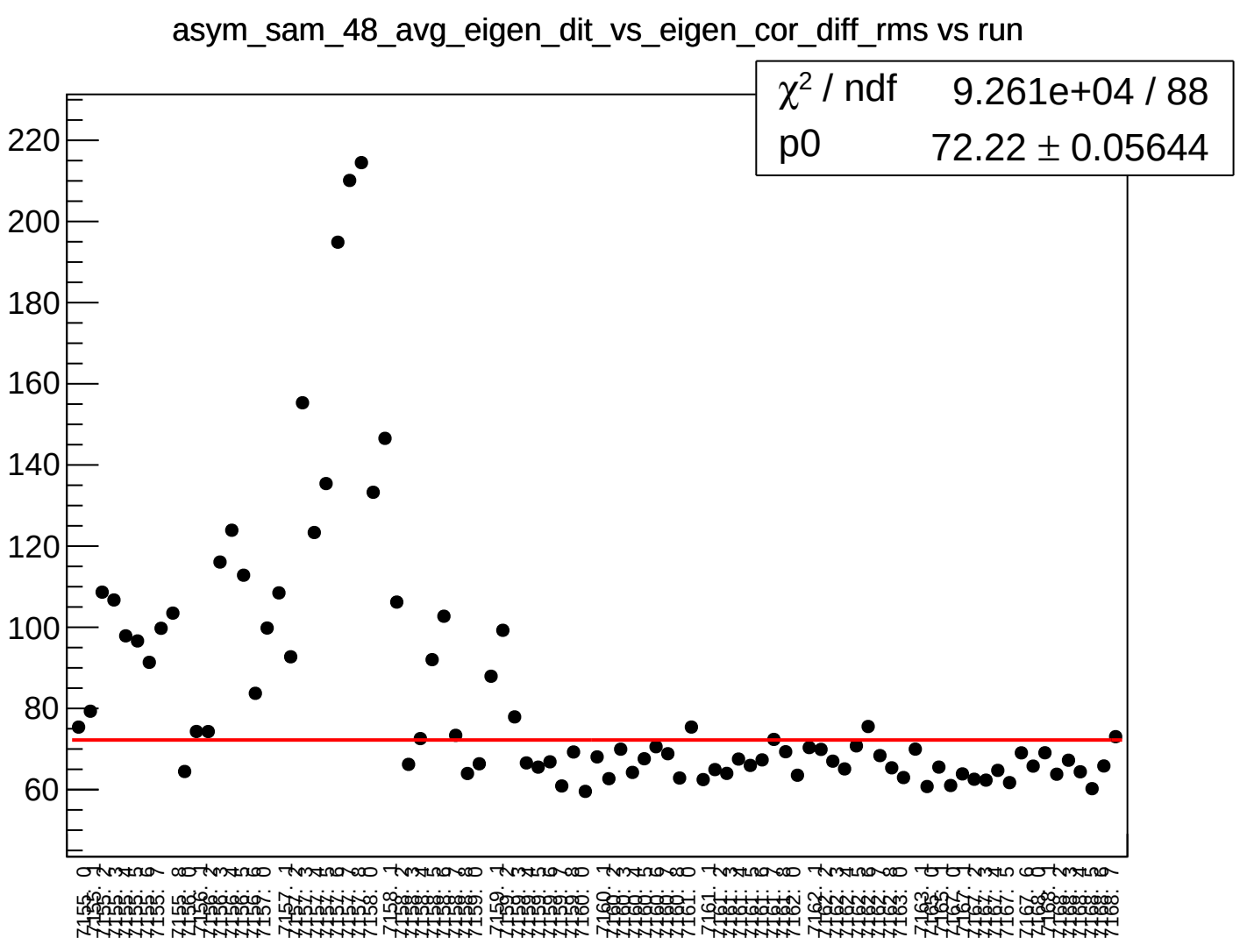

pull1D
Entries 89
Mean −0.02908
Std Dev 0.8712

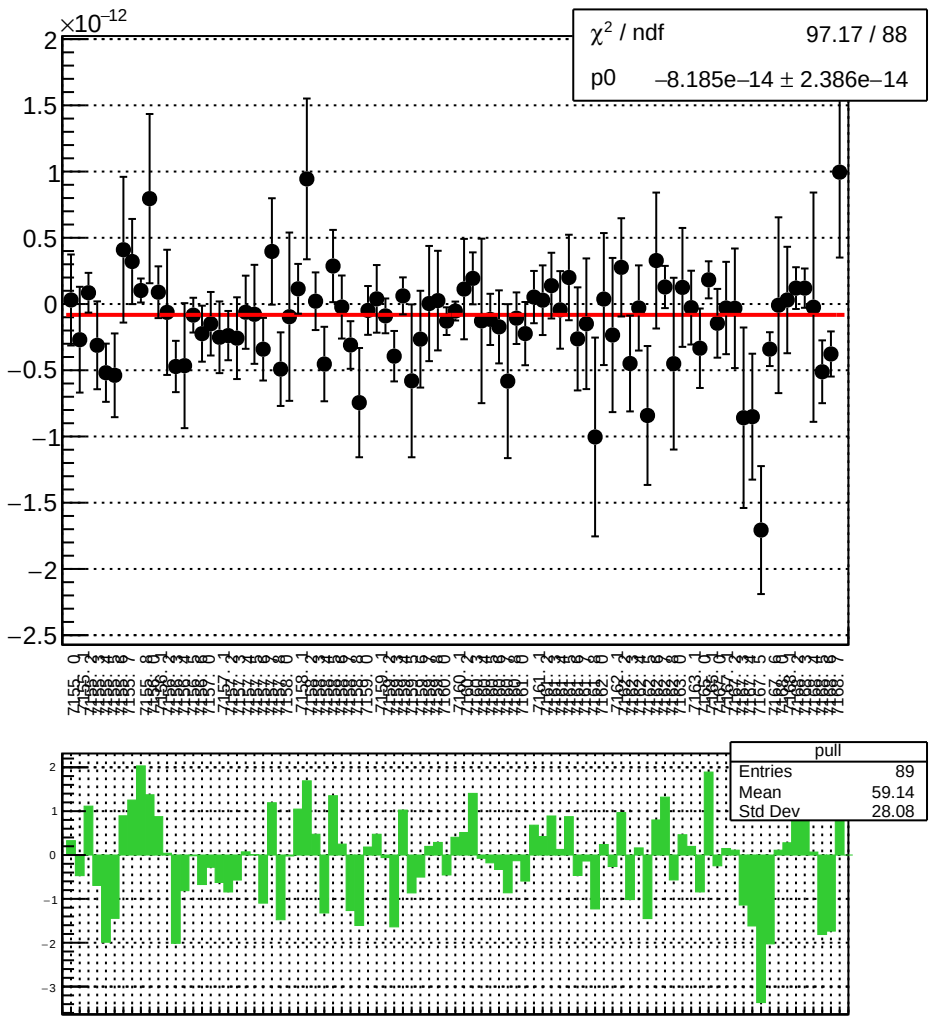

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.052e+04 / 88
p0 0.005738 ± 4.376e−06
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

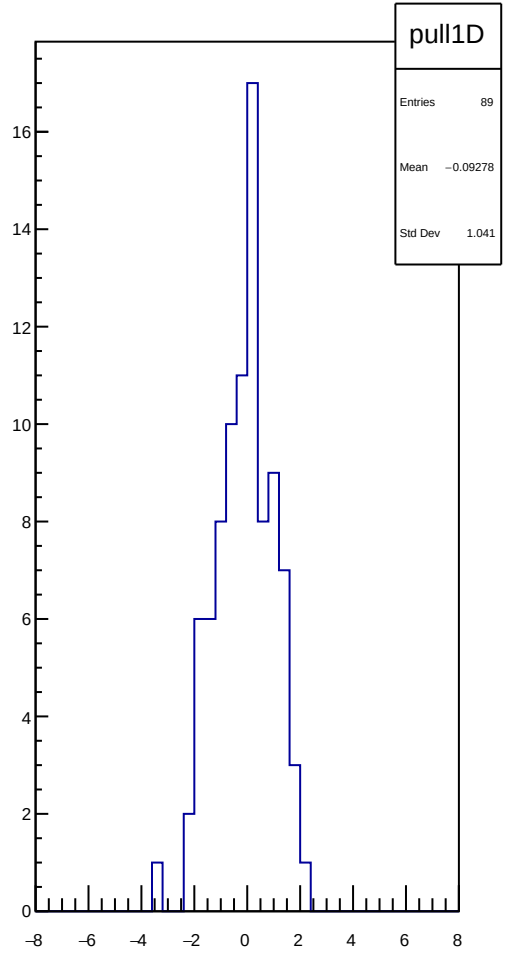

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 88
p0 −0.08641 ± 0.07982
pull
Entries 89
Mean −27.55
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 0.8944

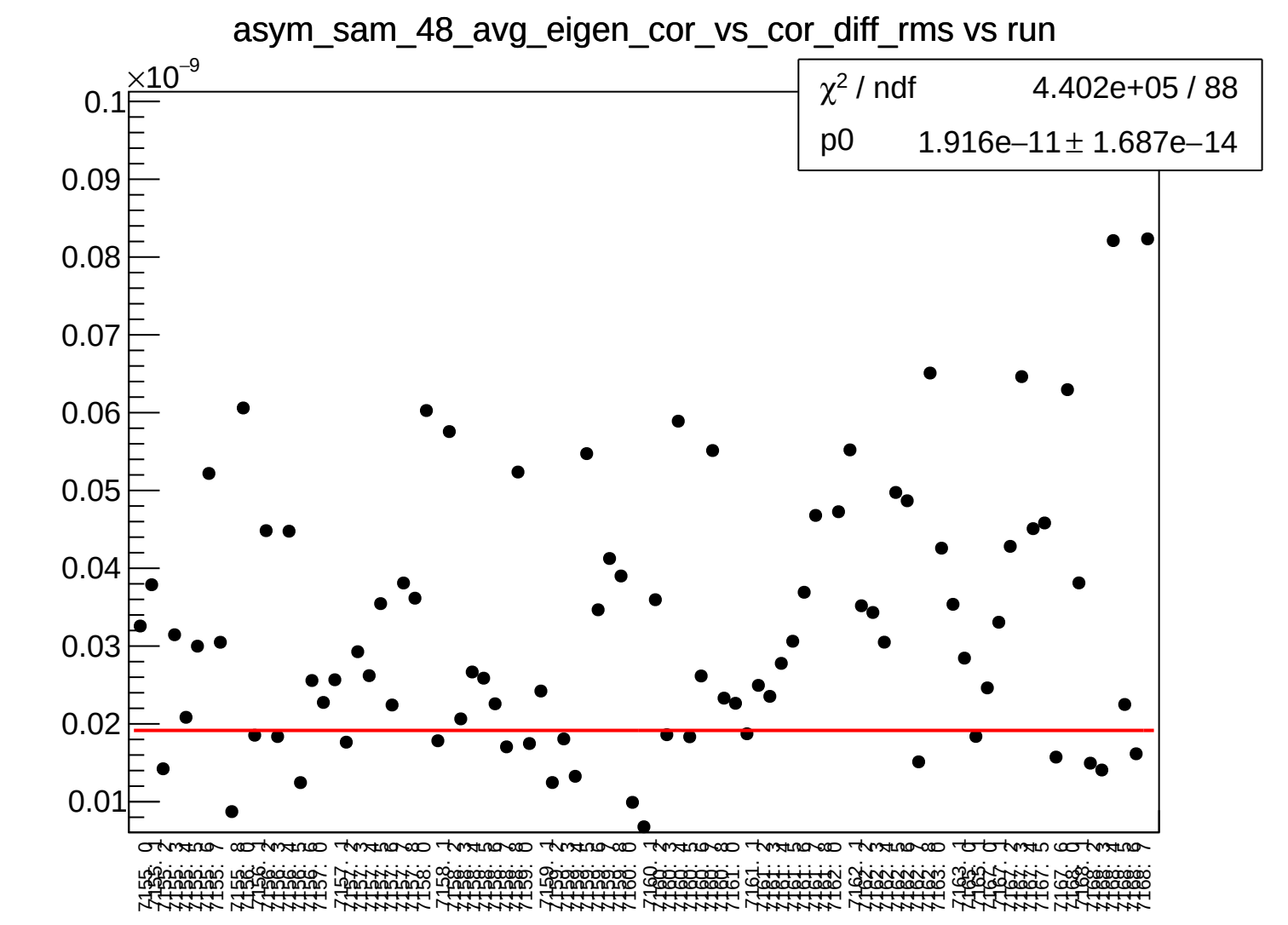

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.261e+04 / 88
p0 72.22 ± 0.05644
220
200
180
160
140
120
100
80
60

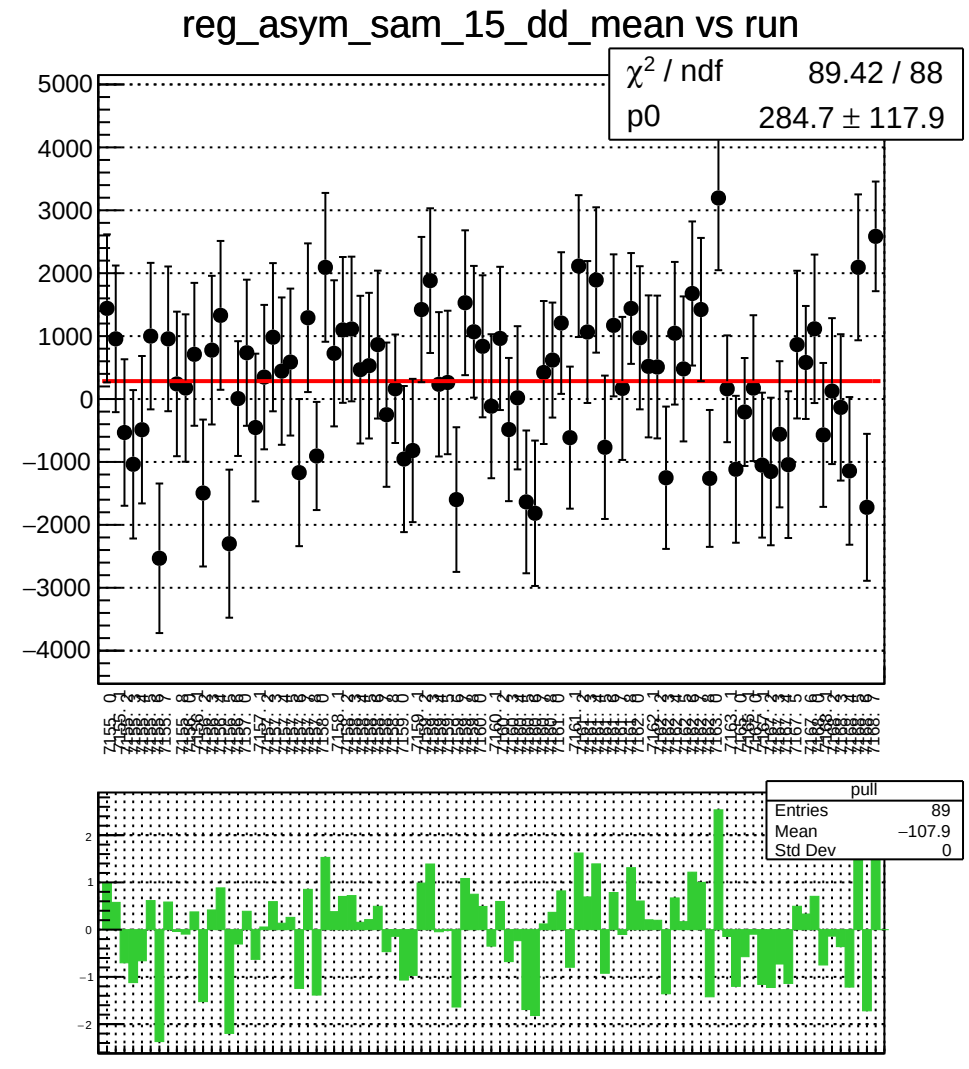

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.29 / 88
p0 −0.08641 ± 0.07982
pull
Entries 89
Mean −27.55
Std Dev 0
pull1D
Entries 89
Mean 0.03257
Std Dev 0.8944

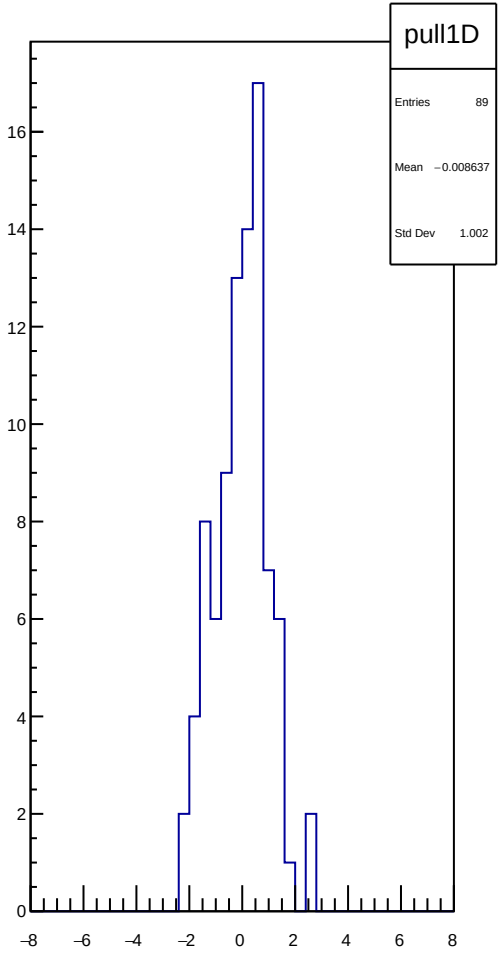

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.261e+04 / 88
p0 72.22 ± 0.05644
220
200
180
160
140
120
100
80
60

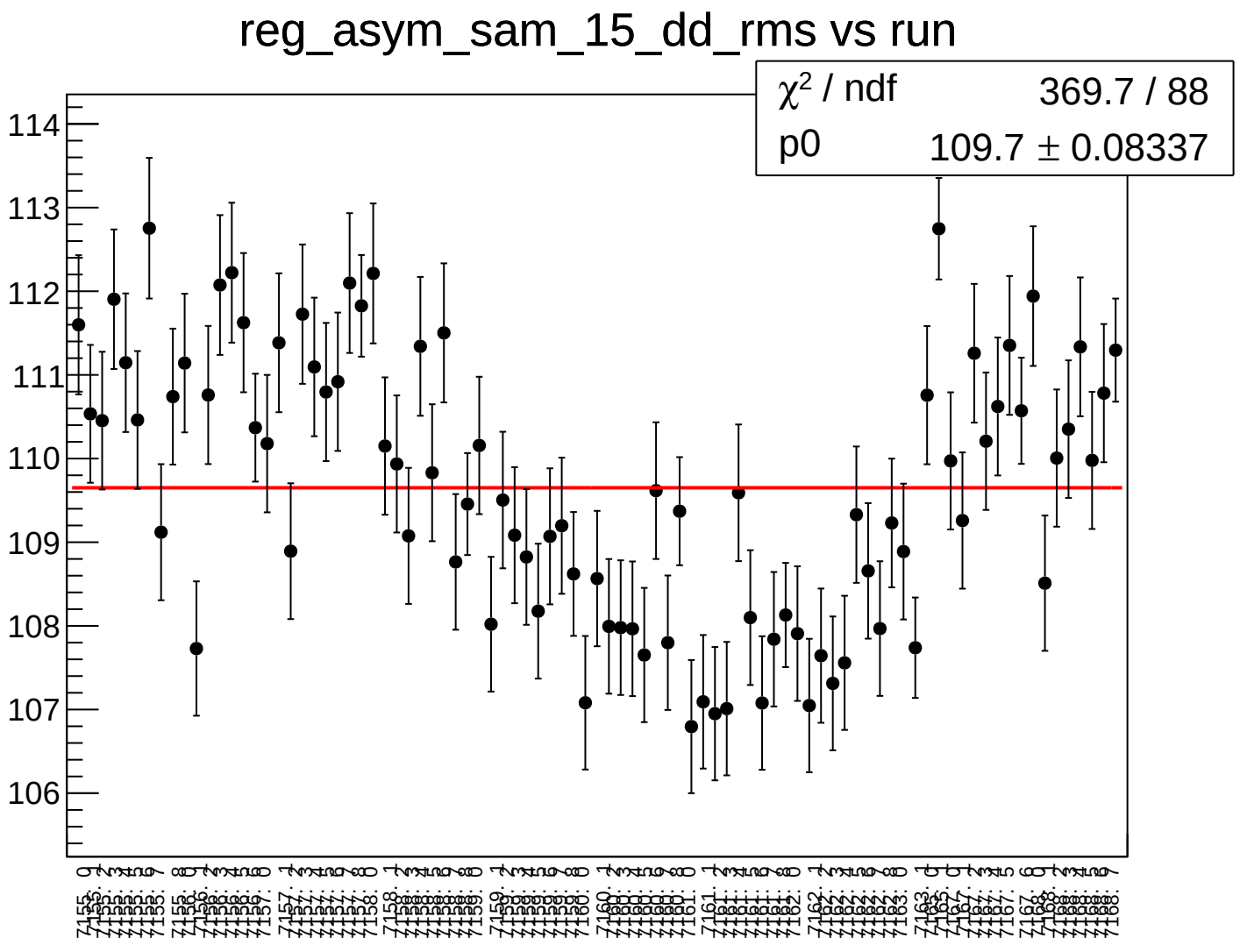

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.17 / 88
p0 −8.185e−14 ± 2.386e−14
pull
Entries 89
Mean 59.14
Std Dev 28.08

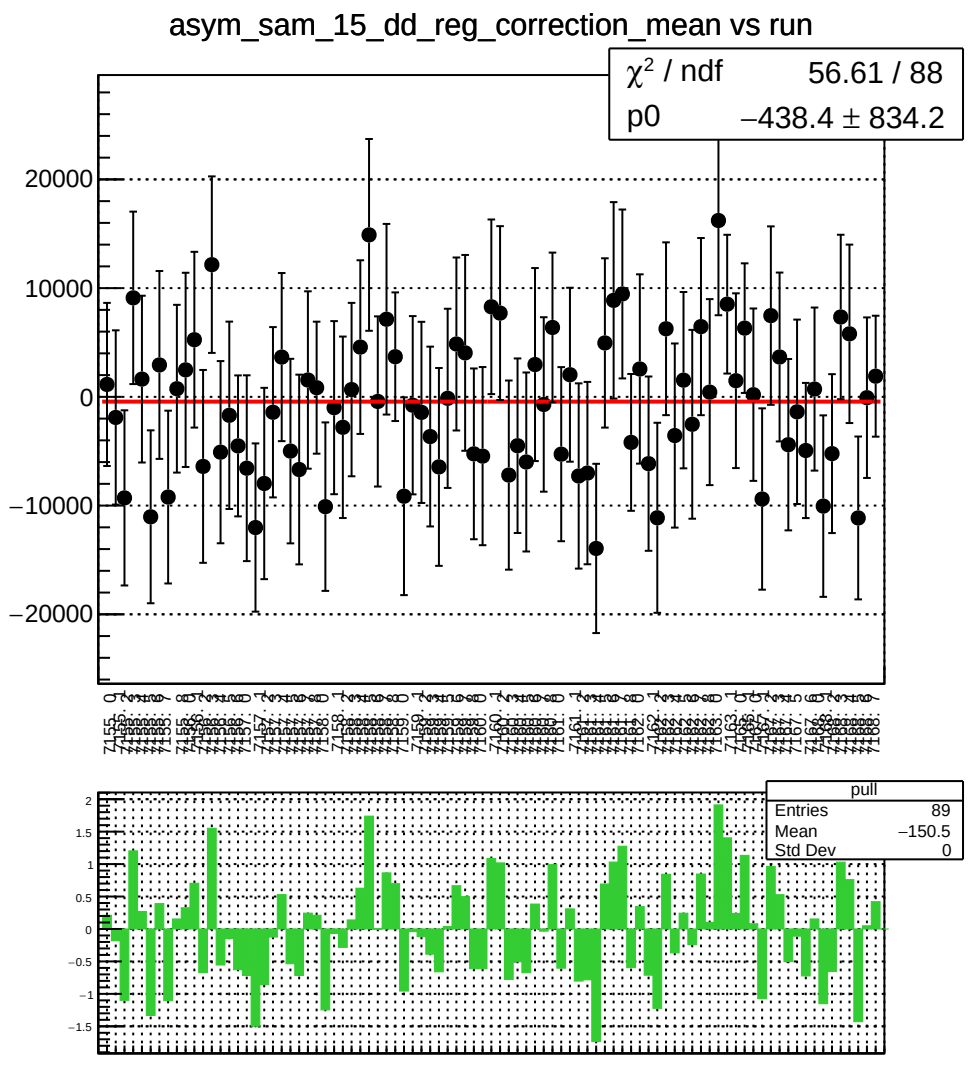

pull1D
Entries 89
Mean −0.09278
Std Dev 1.041

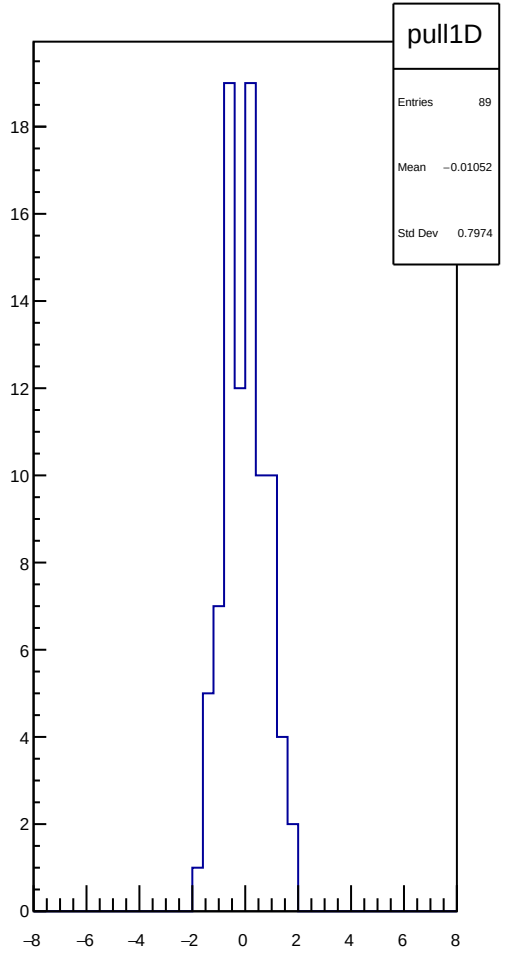

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 4.402e+05 / 88
p0 1.916e−11 ± 1.687e−14

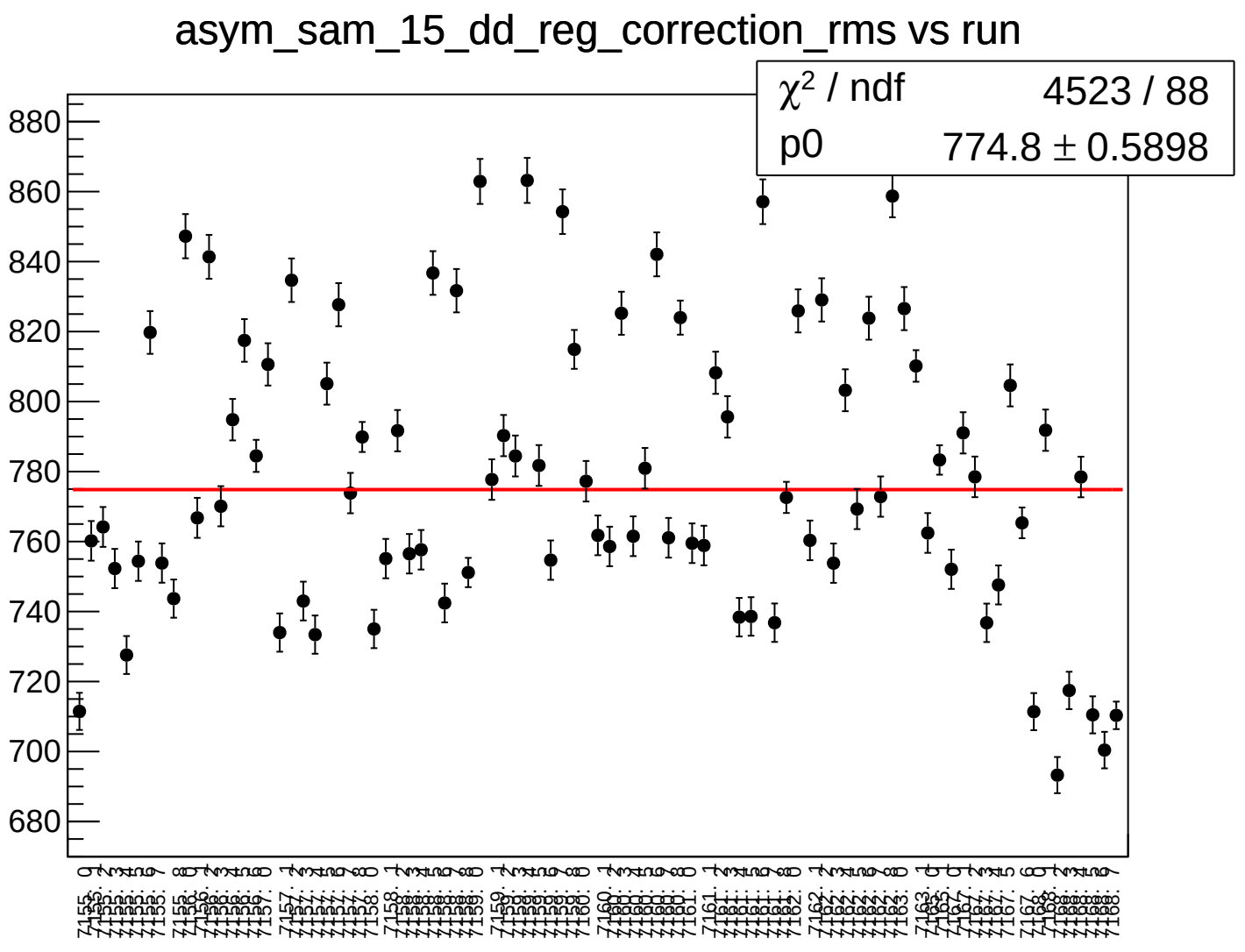

reg_asym_sam_15_dd_mean vs run
χ² / ndf 89.42 / 88
p0 284.7 ± 117.9
pull
Entries 89
Mean −107.9
Std Dev 0

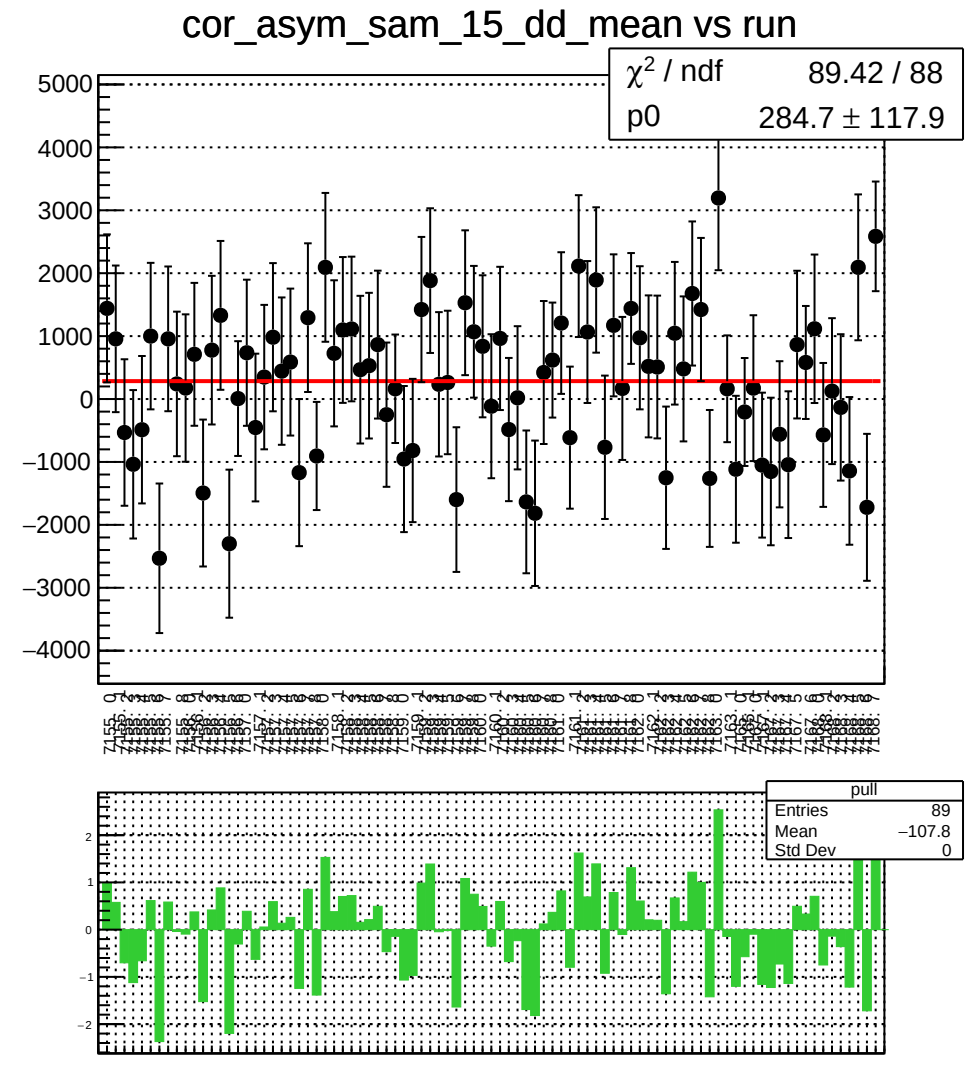

pull1D
Entries 89
Mean −0.008637
Std Dev 1.002

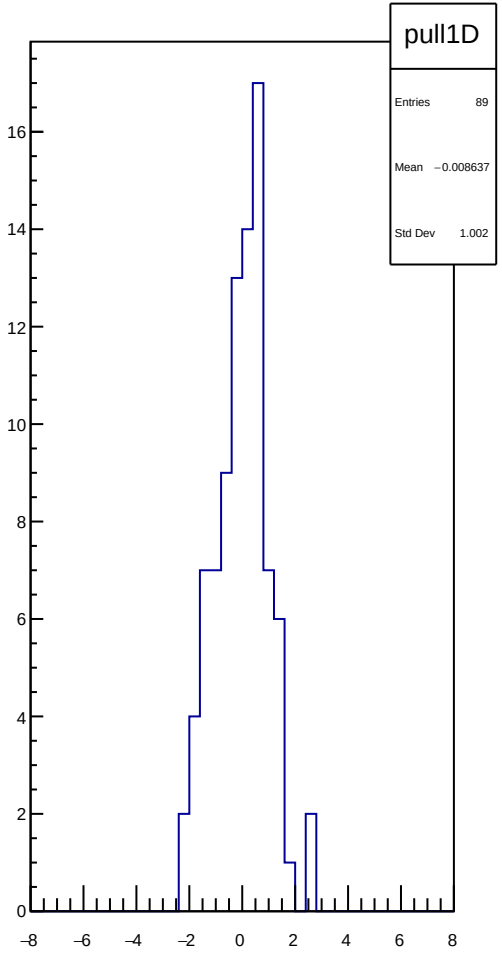

reg_asym_sam_15_dd_rms vs run
χ² / ndf 369.7 / 88
p0 109.7 ± 0.08337
114
113
112
111
110
109
108
107
106

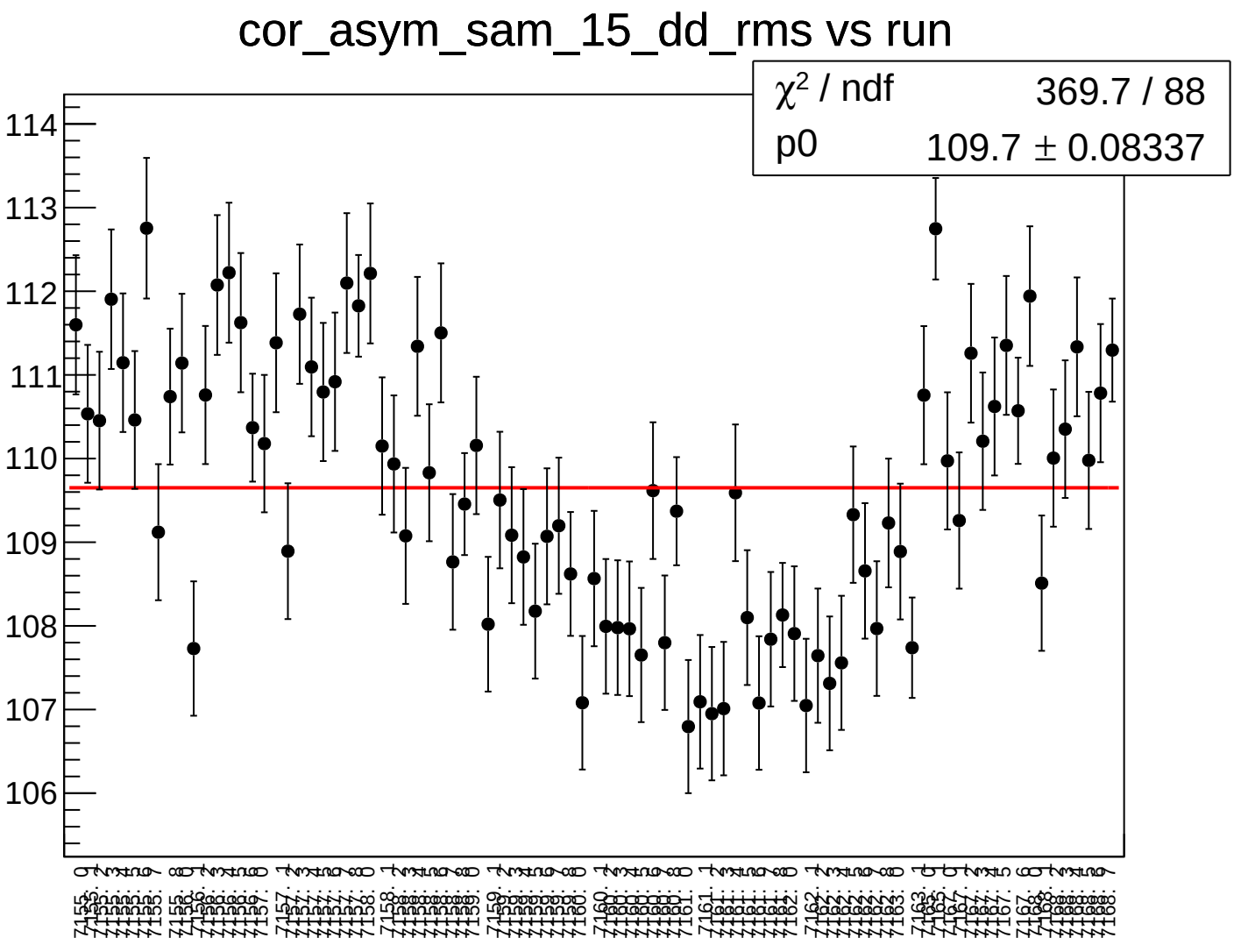

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 56.61 / 88
p0 −438.4 ± 834.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −150.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

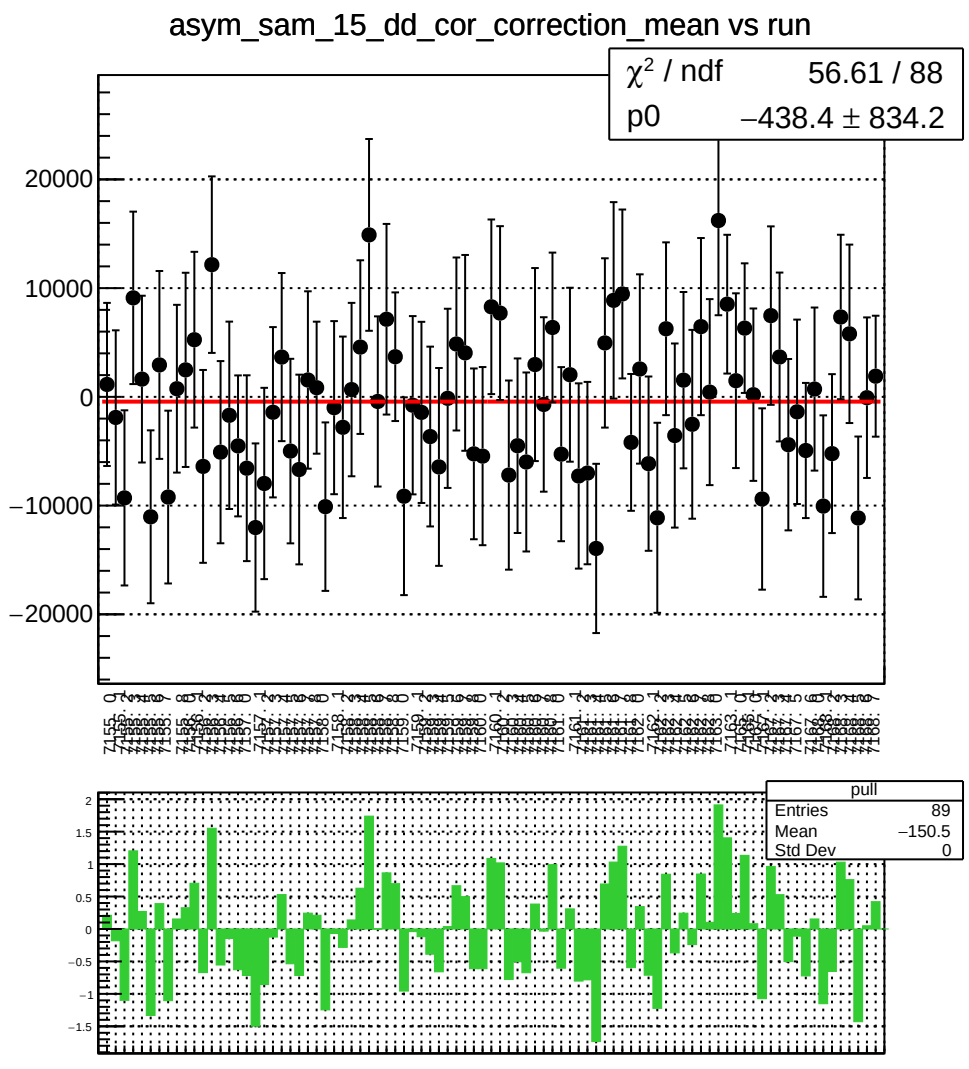

pull1D
Entries 89
Mean −0.01052
Std Dev 0.7974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

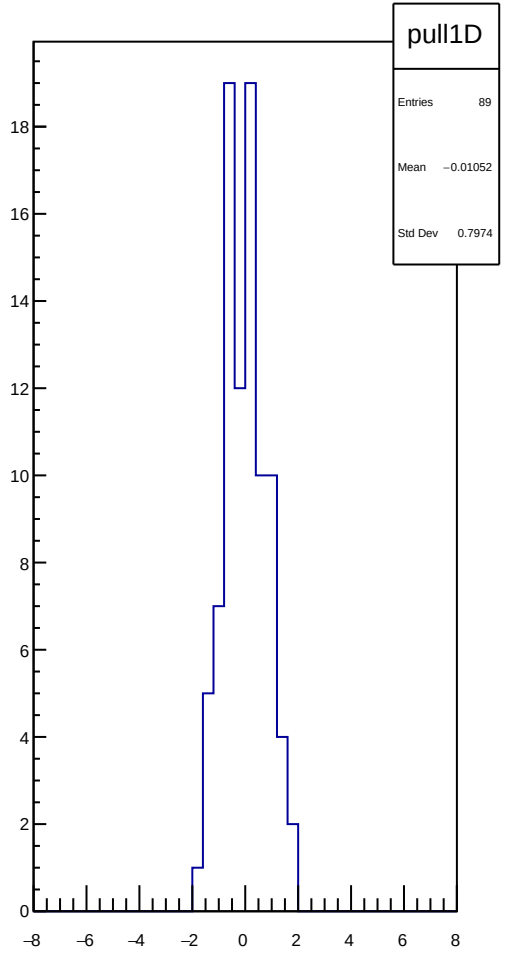

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 4523 / 88
p0 774.8 ± 0.5898
880
860
840
820
800
780
760
740
720
700
680

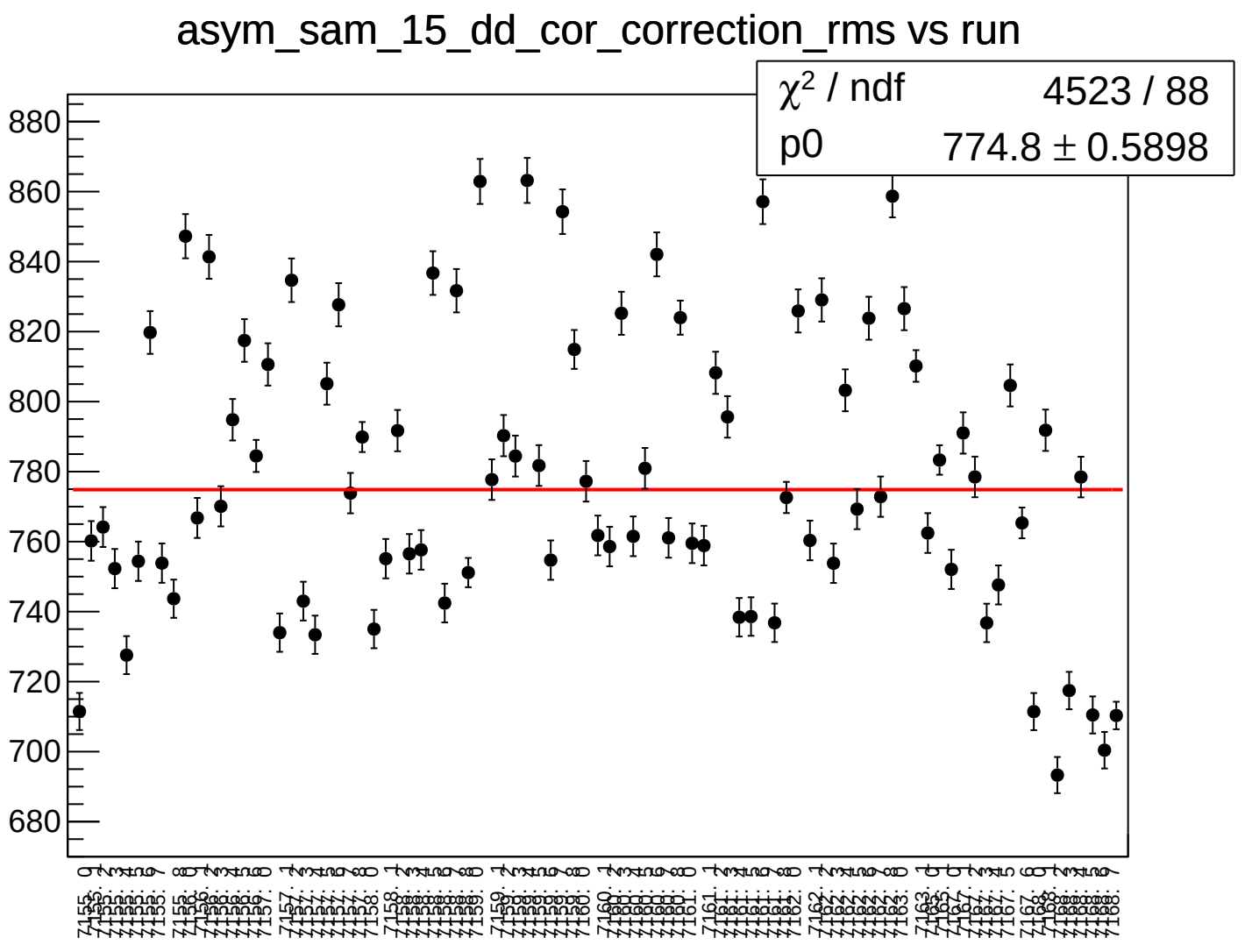

cor_asym_sam_15_dd_mean vs run
χ² / ndf 89.42 / 88
p0 284.7 ± 117.9
pull
Entries 89
Mean −107.8
Std Dev 0

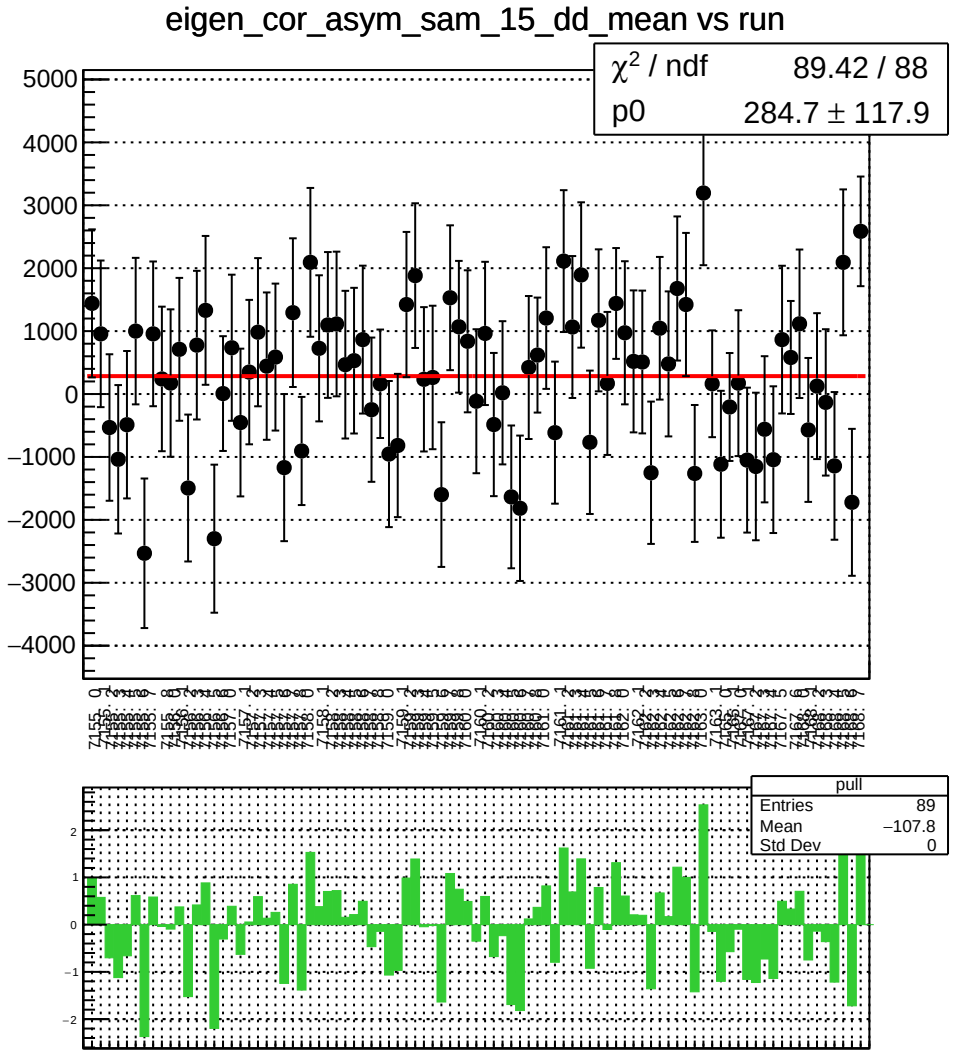

pull1D
Entries 89
Mean −0.008637
Std Dev 1.002

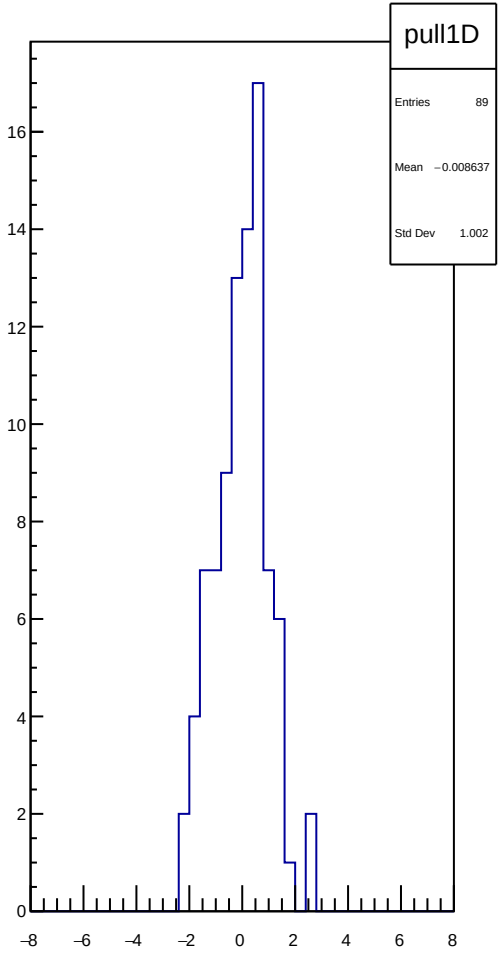

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 369.7 / 88
p0 109.7 ± 0.08337
114
113
112
111
110
109
108
107
106

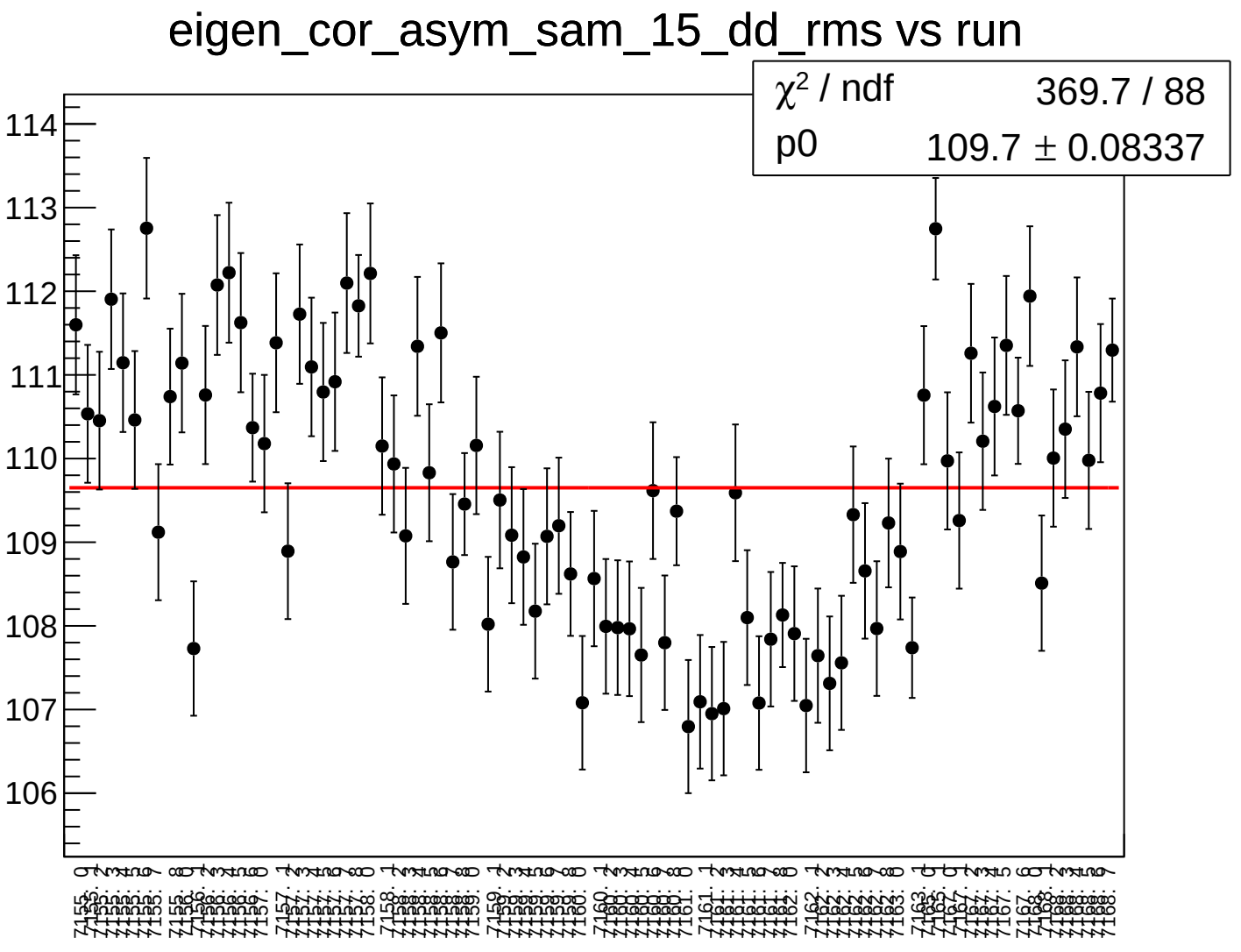

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 56.61 / 88
p0 −438.4 ± 834.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −150.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

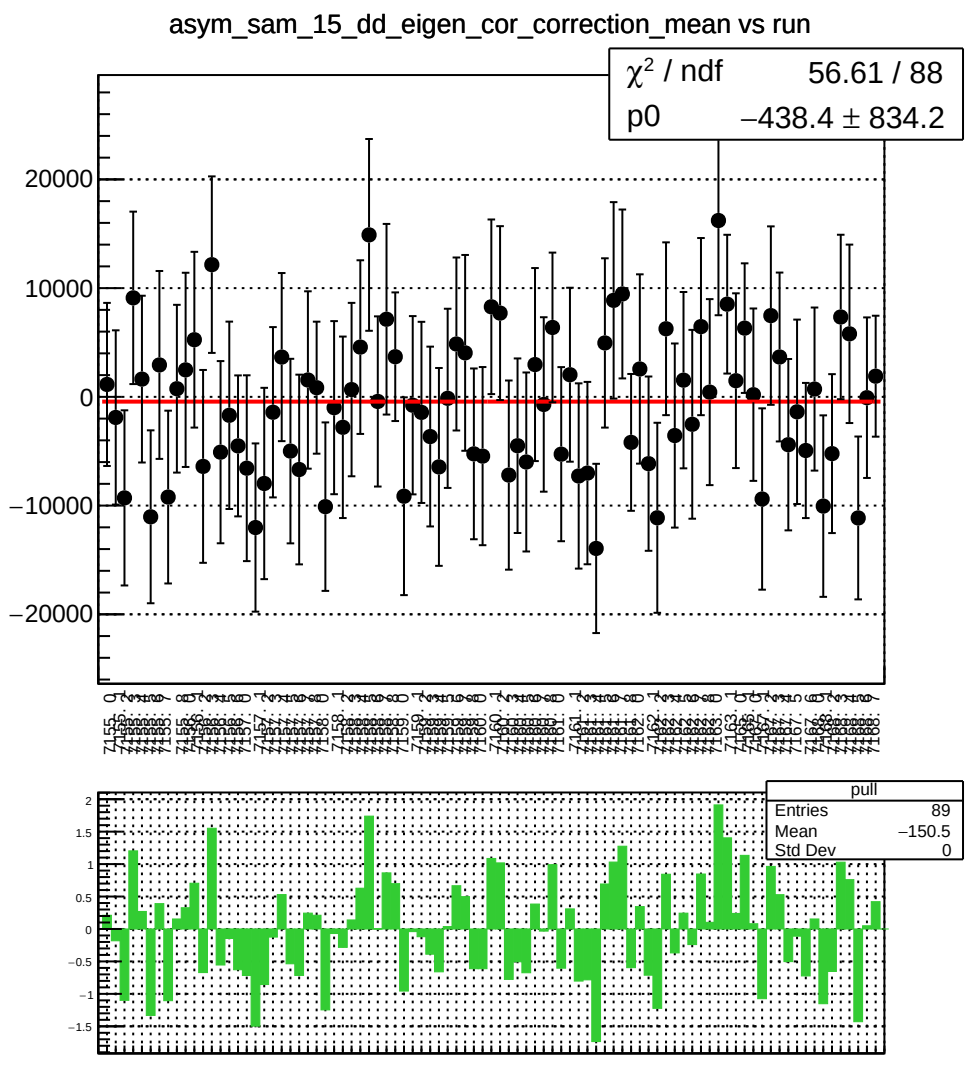

pull1D
Entries 89
Mean −0.01052
Std Dev 0.7974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

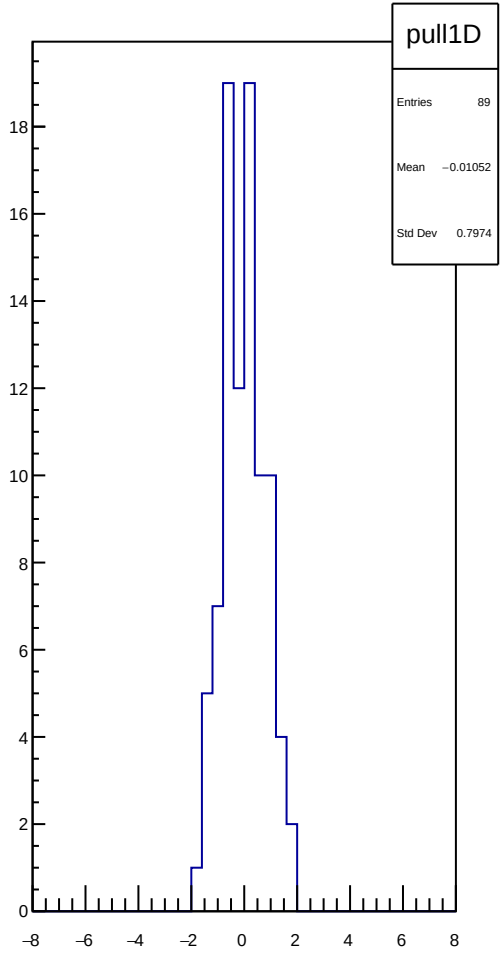

asym_sam_15_dd_cor_correction_rms vs run
χ^2 / ndf 4523 / 88
p0 774.8 ± 0.5898
880
860
840
820
800
780
760
740
720
700
680

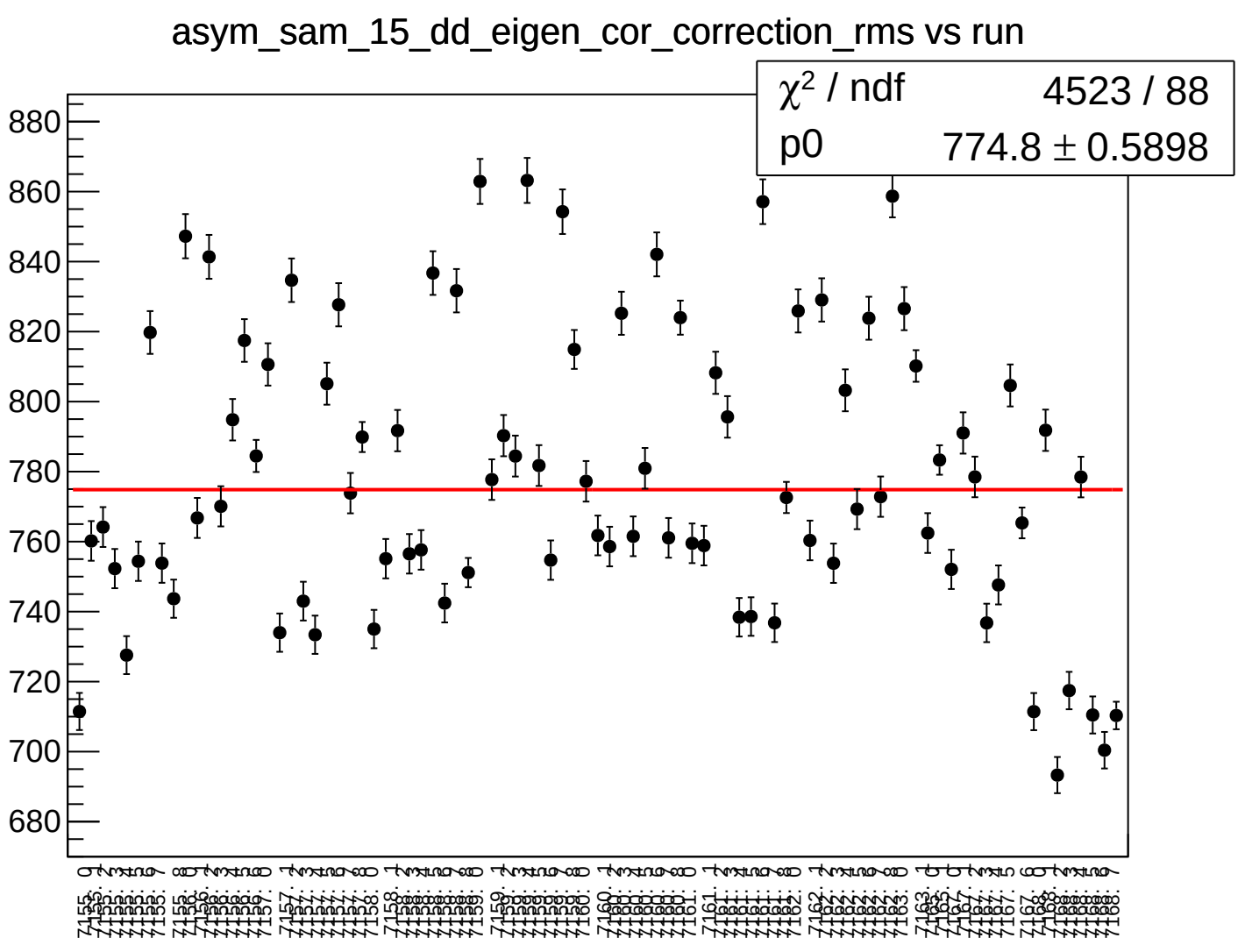

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 89.42 / 88
p0 284.7 ± 117.9
pull
Entries 89
Mean −107.8
Std Dev 0

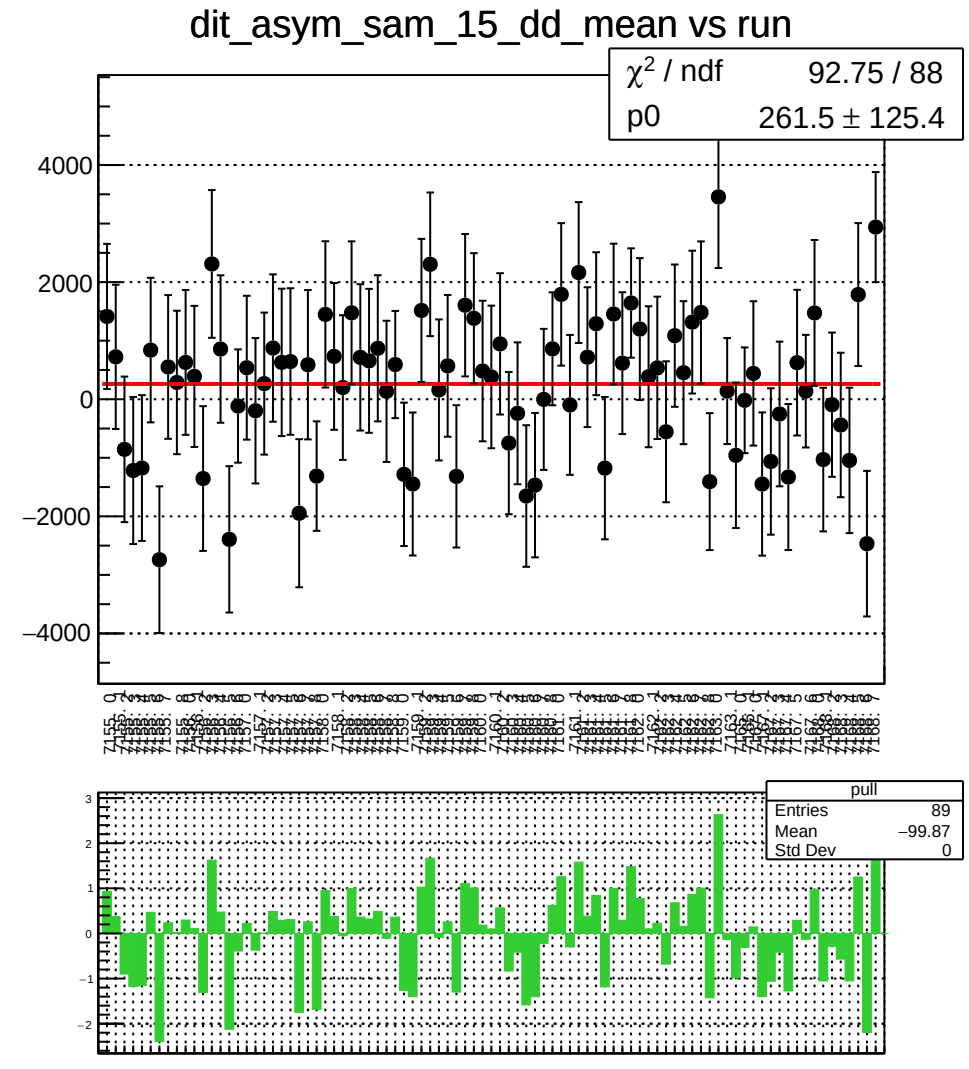

pull1D
Entries 89
Mean −0.008637
Std Dev 1.002

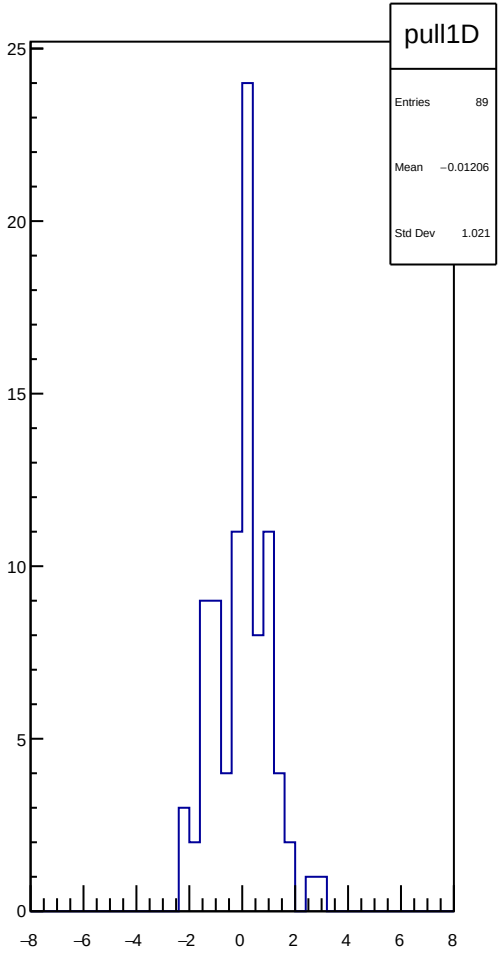

eigen_cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 369.7 / 88
p0 109.7 ± 0.08337
114
113
112
111
110
109
108
107
106

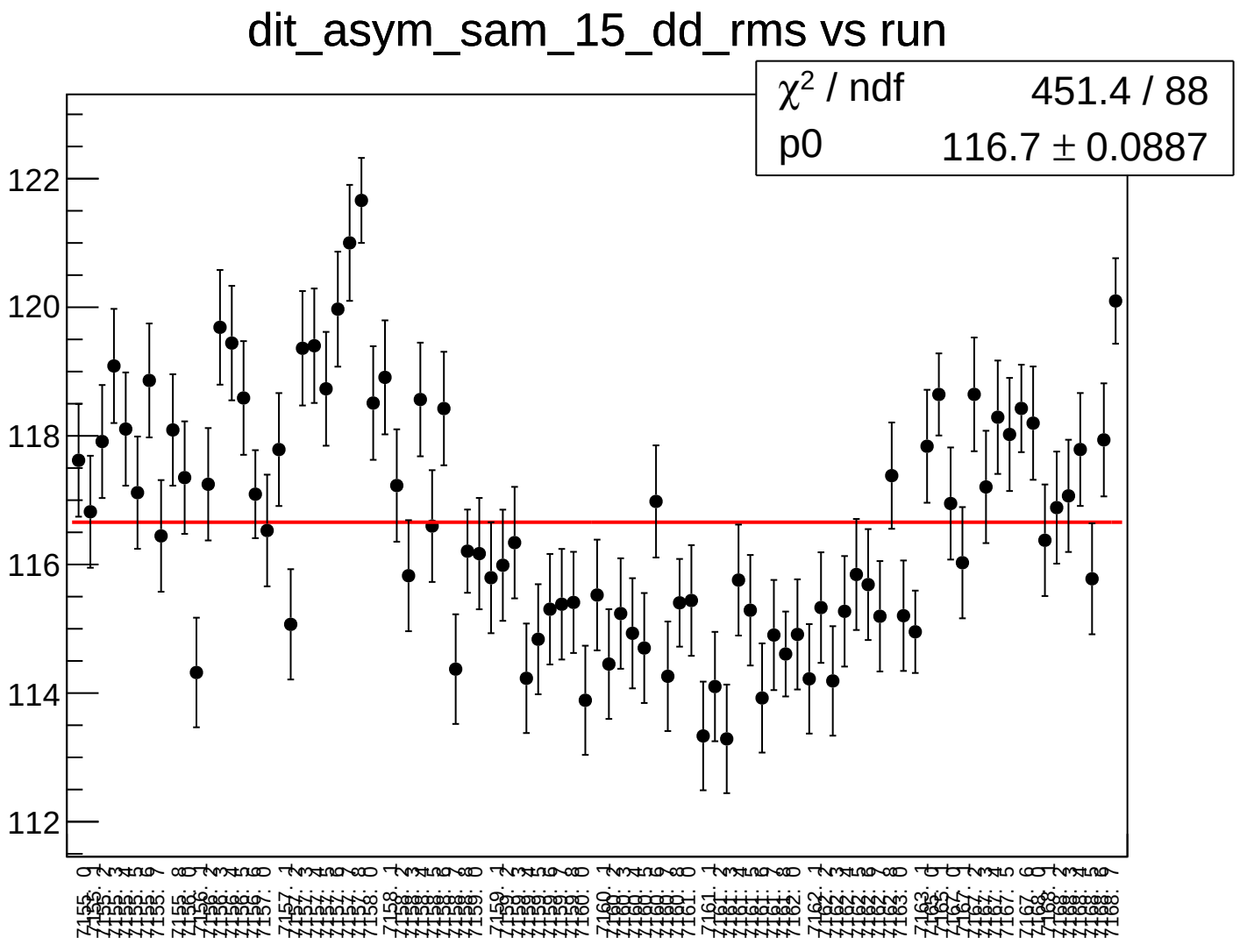

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 56.61 / 88
p0 −438.4 ± 834.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −150.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

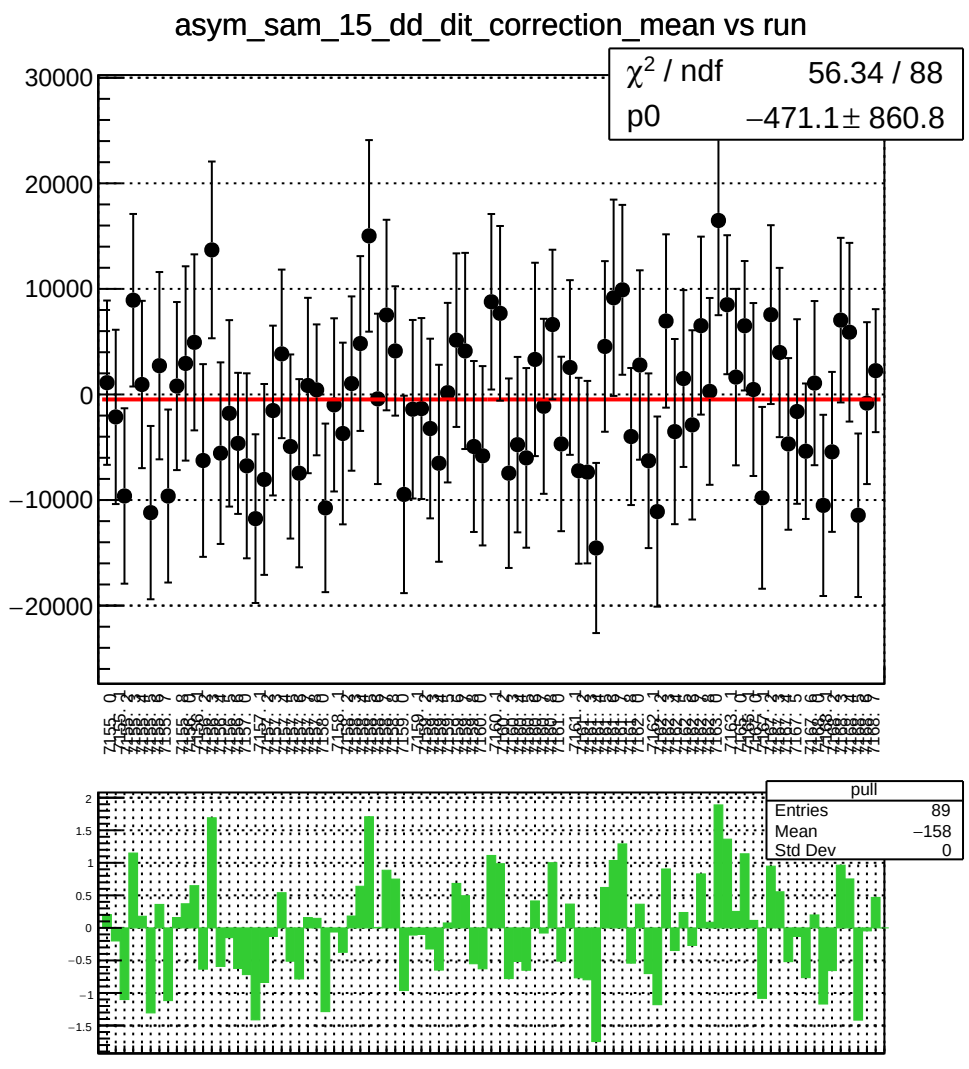

pull1D
Entries 89
Mean −0.01052
Std Dev 0.7974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

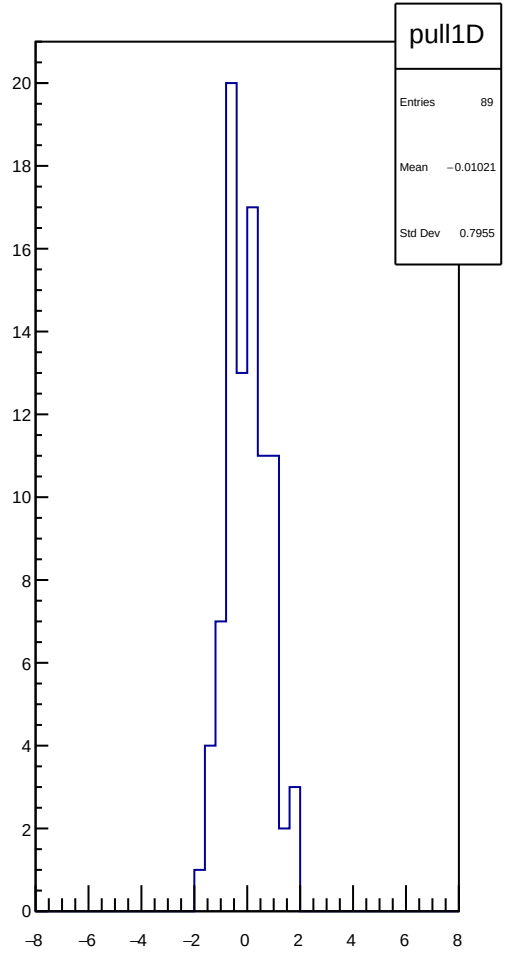

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4523 / 88
p0 774.8 ± 0.5898
880
860
840
820
800
780
760
740
720
700
680

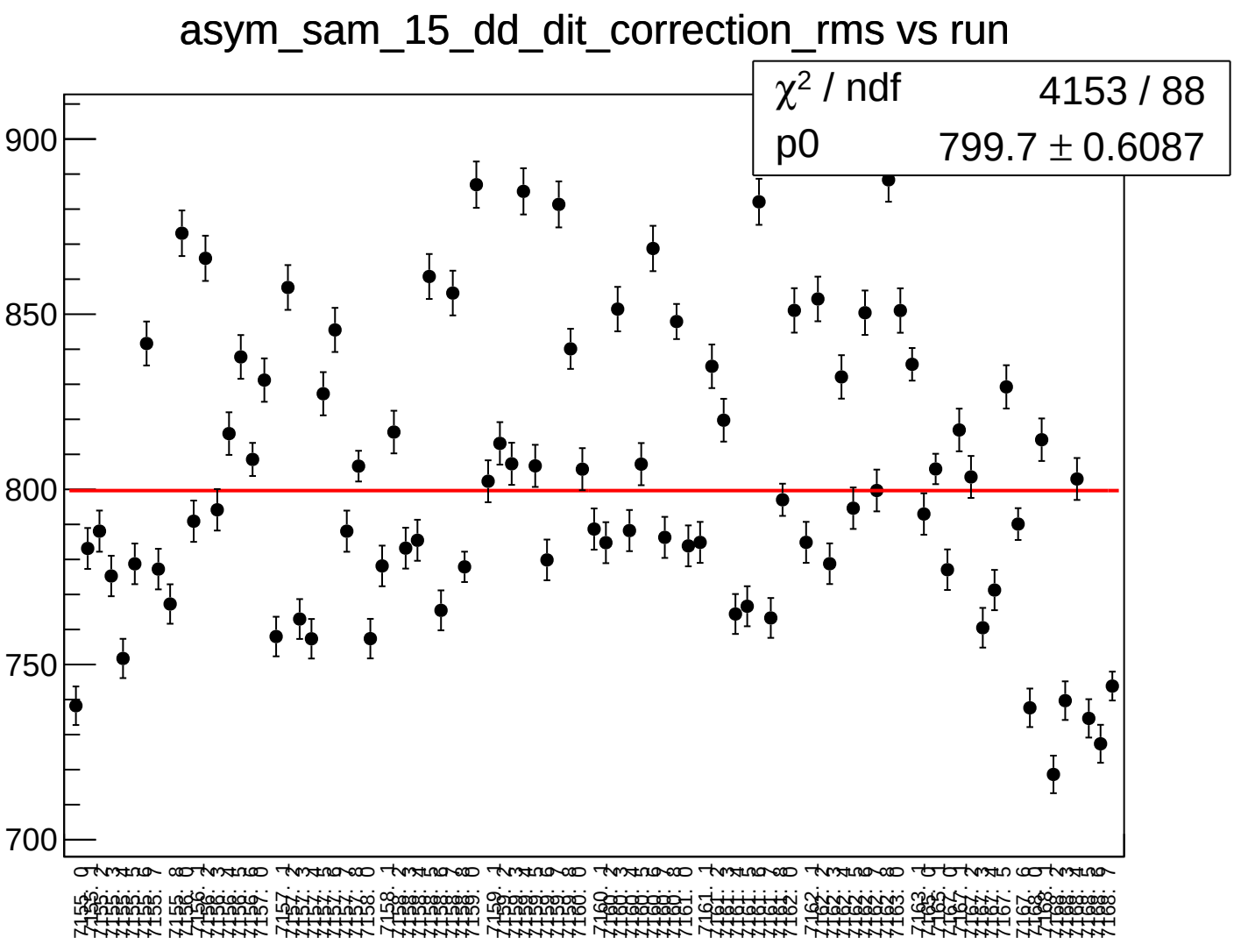

dit_asym_sam_15_dd_mean vs run
χ² / ndf 92.75 / 88
p0 261.5 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −99.87
Std Dev 0
3
2
1
0
−1
−2

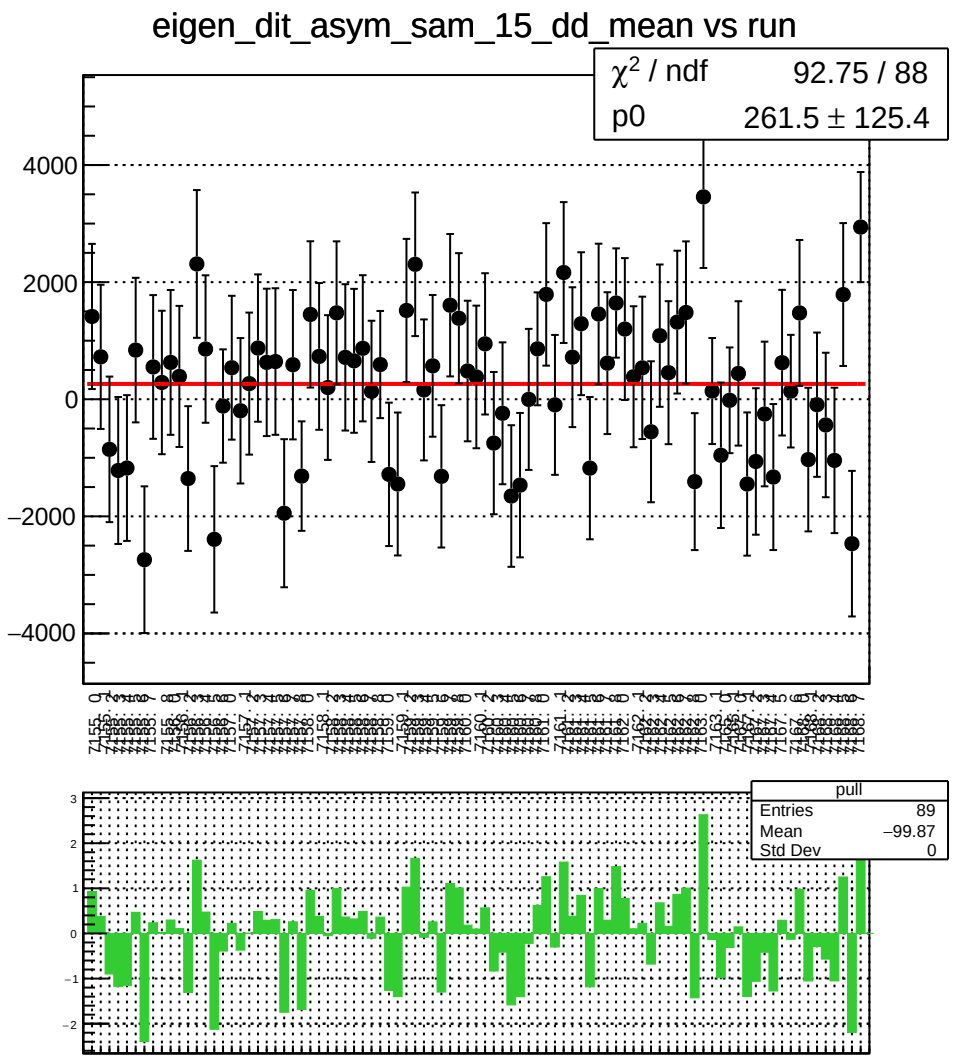

pull1D
Entries 89
Mean −0.01206
Std Dev 1.021
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

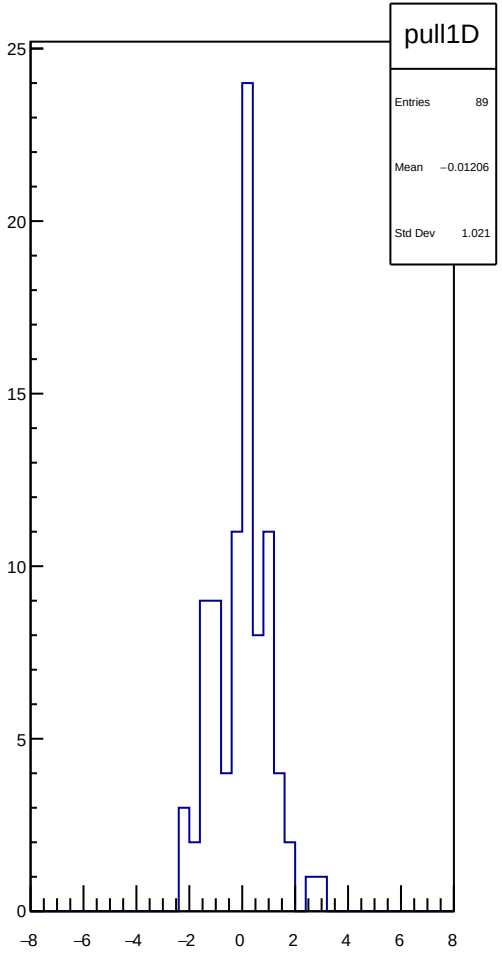

dit_asym_sam_15_dd_rms vs run
χ² / ndf 451.4 / 88
p0 116.7 ± 0.0887
122
120
118
116
114
112

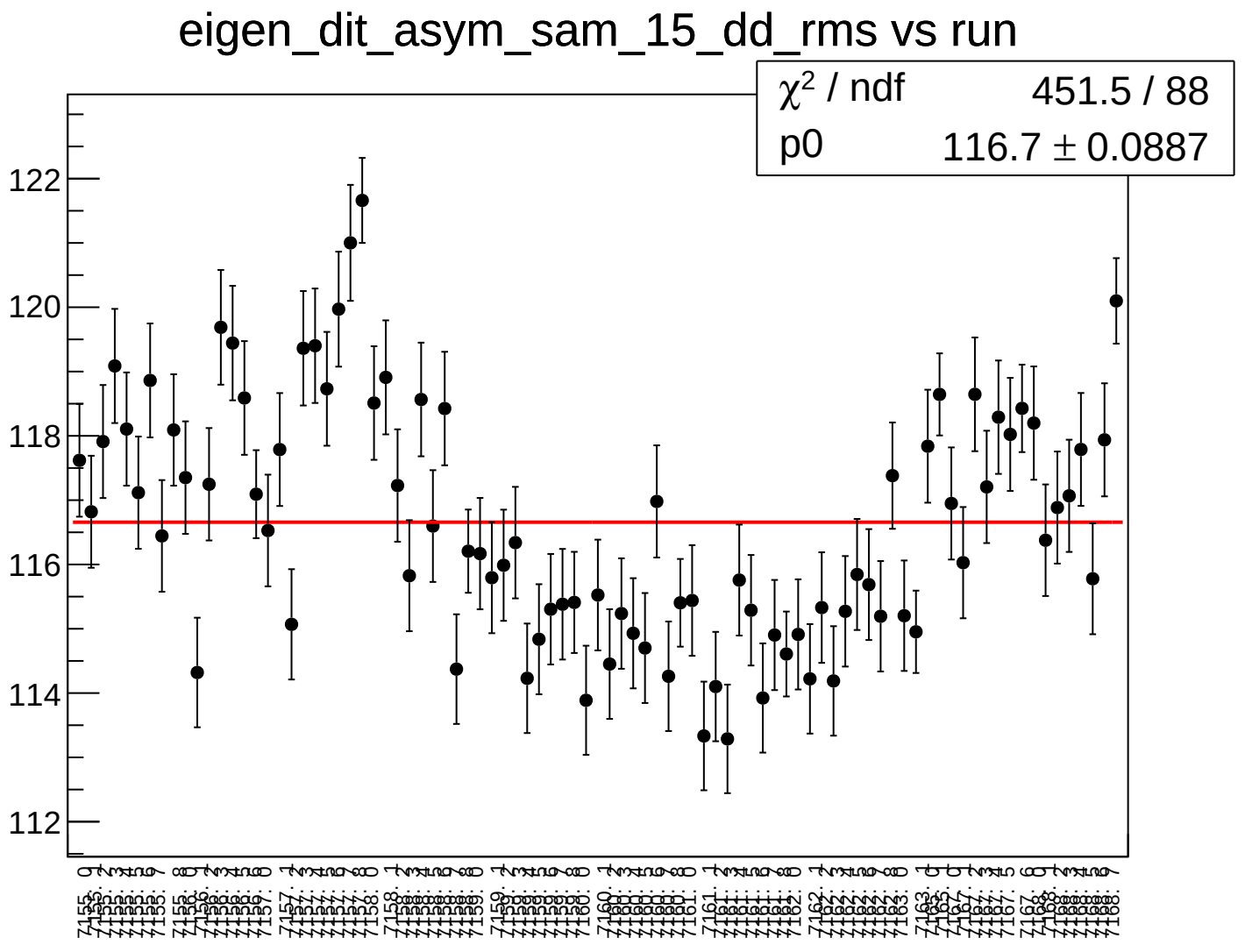

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 56.34 / 88
p0 −471.1 ± 860.8
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

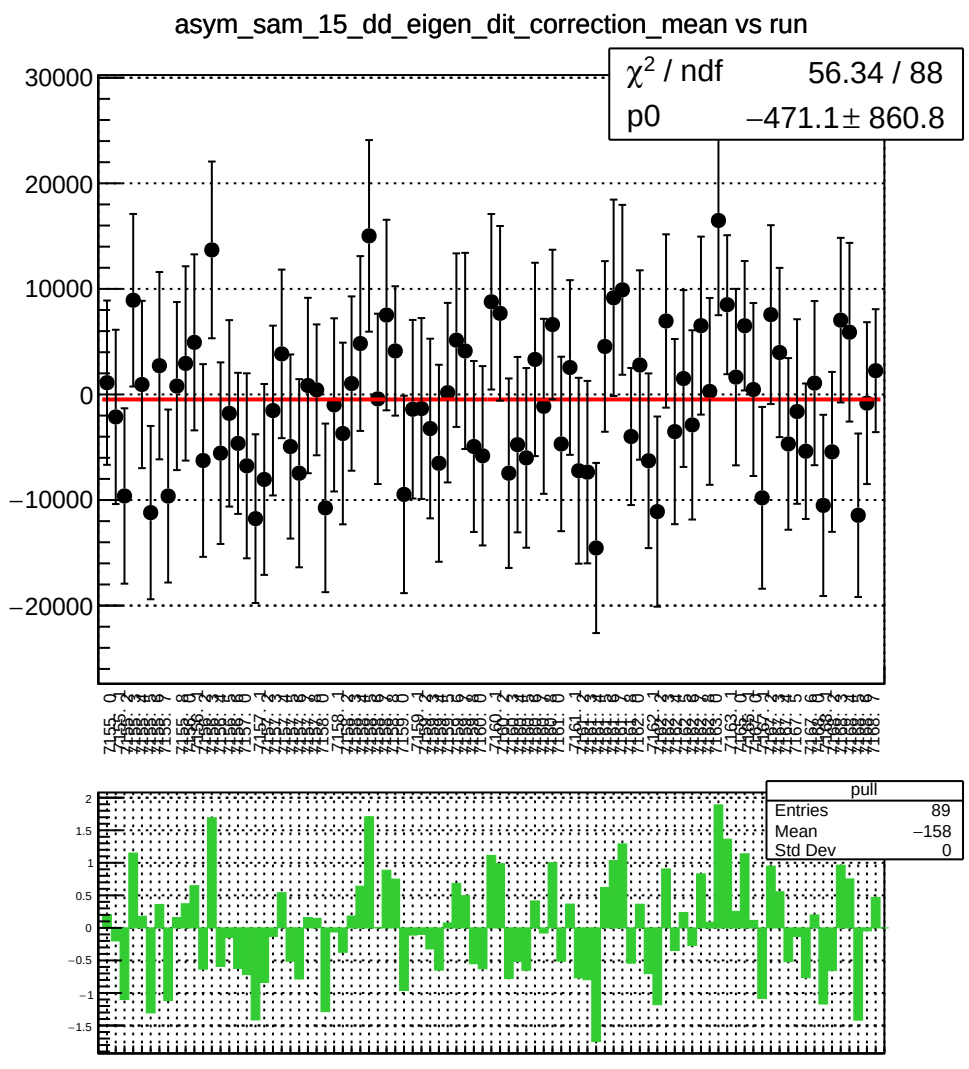

pull1D
Entries 89
Mean −0.01021
Std Dev 0.7955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

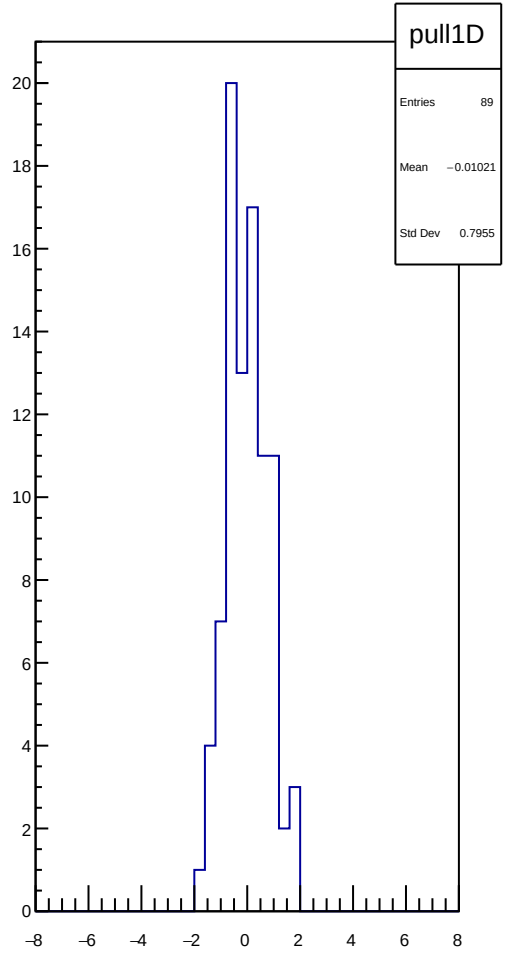

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4153 / 88
p0 799.7 ± 0.6087
900
850
800
750
700

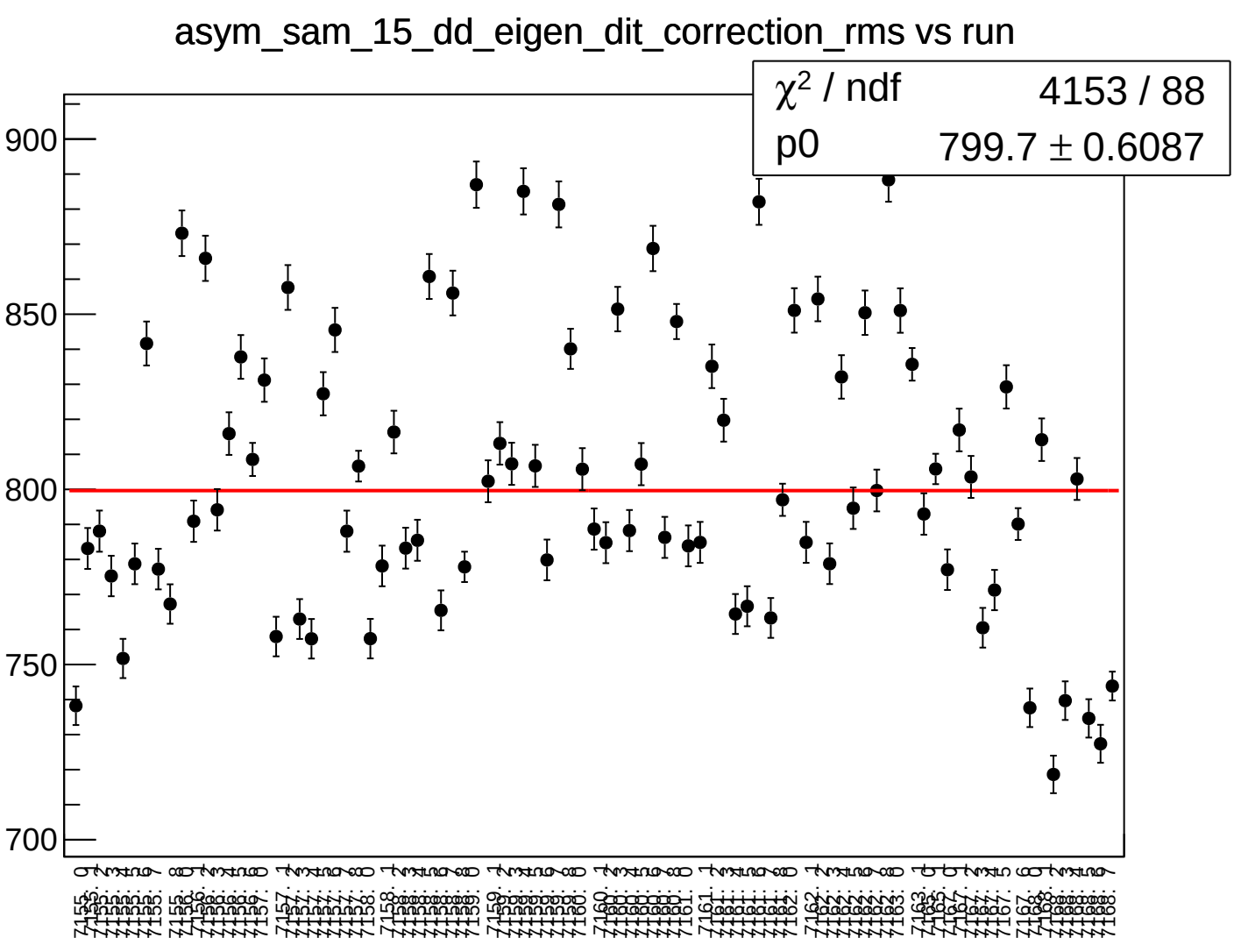

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 92.75 / 88
p0 261.5 ± 125.4
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −99.87
Std Dev 0
3
2
1
0
−1
−2

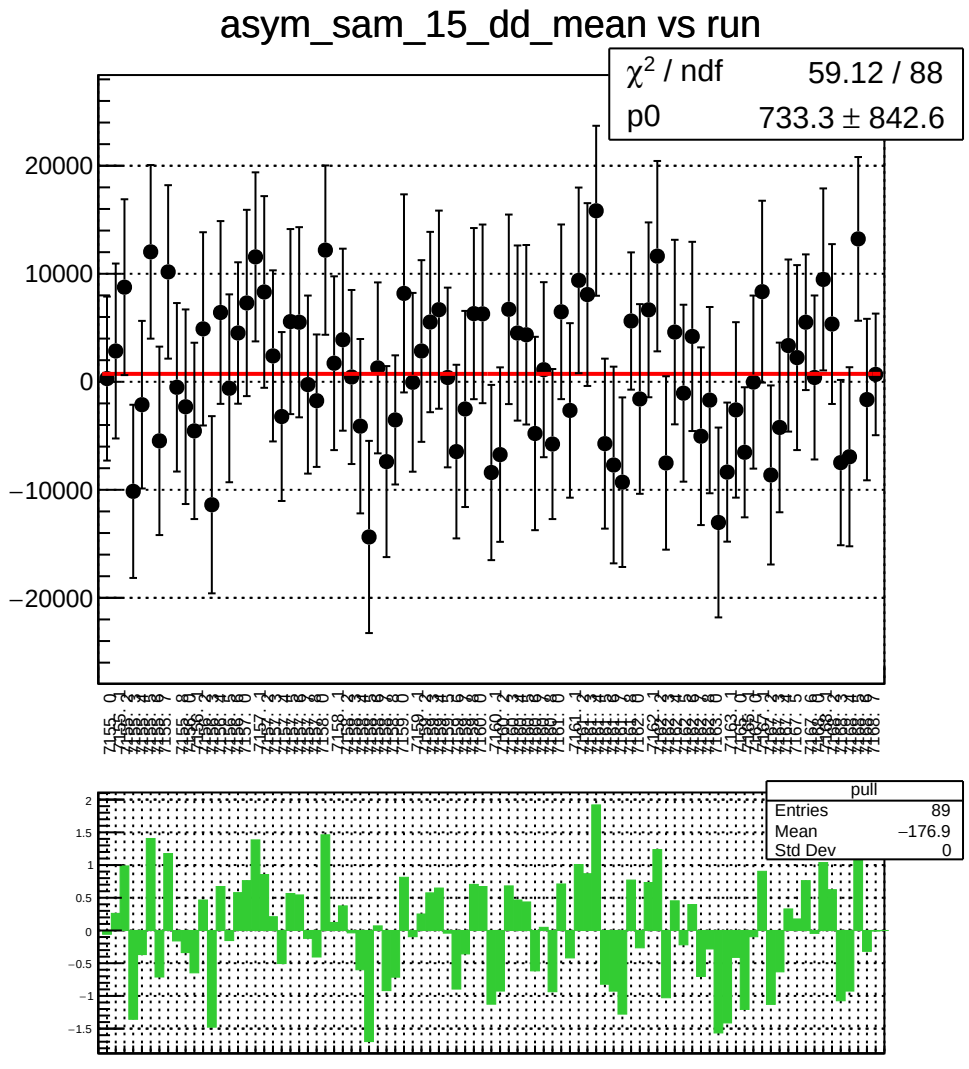

pull1D
Entries 89
Mean −0.01206
Std Dev 1.021
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

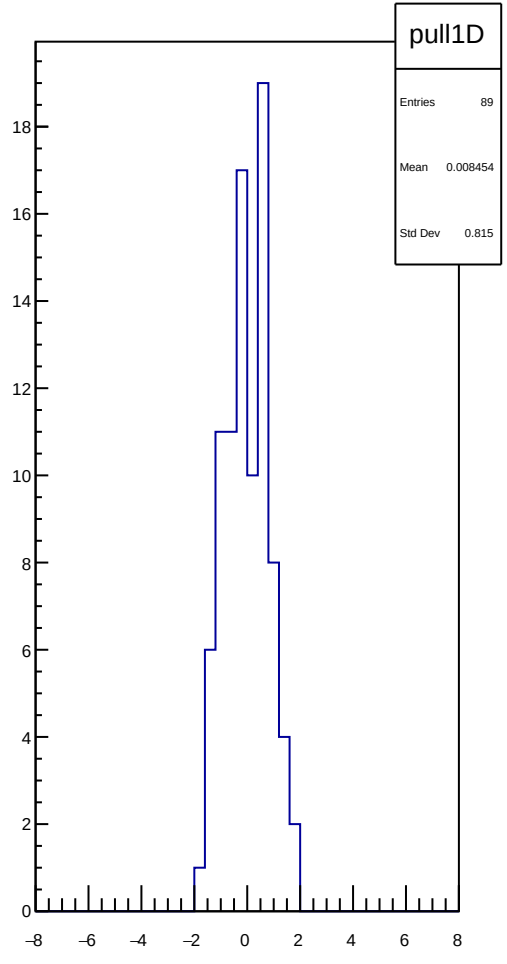

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 451.5 / 88
p0 116.7 ± 0.0887
122
120
118
116
114
112

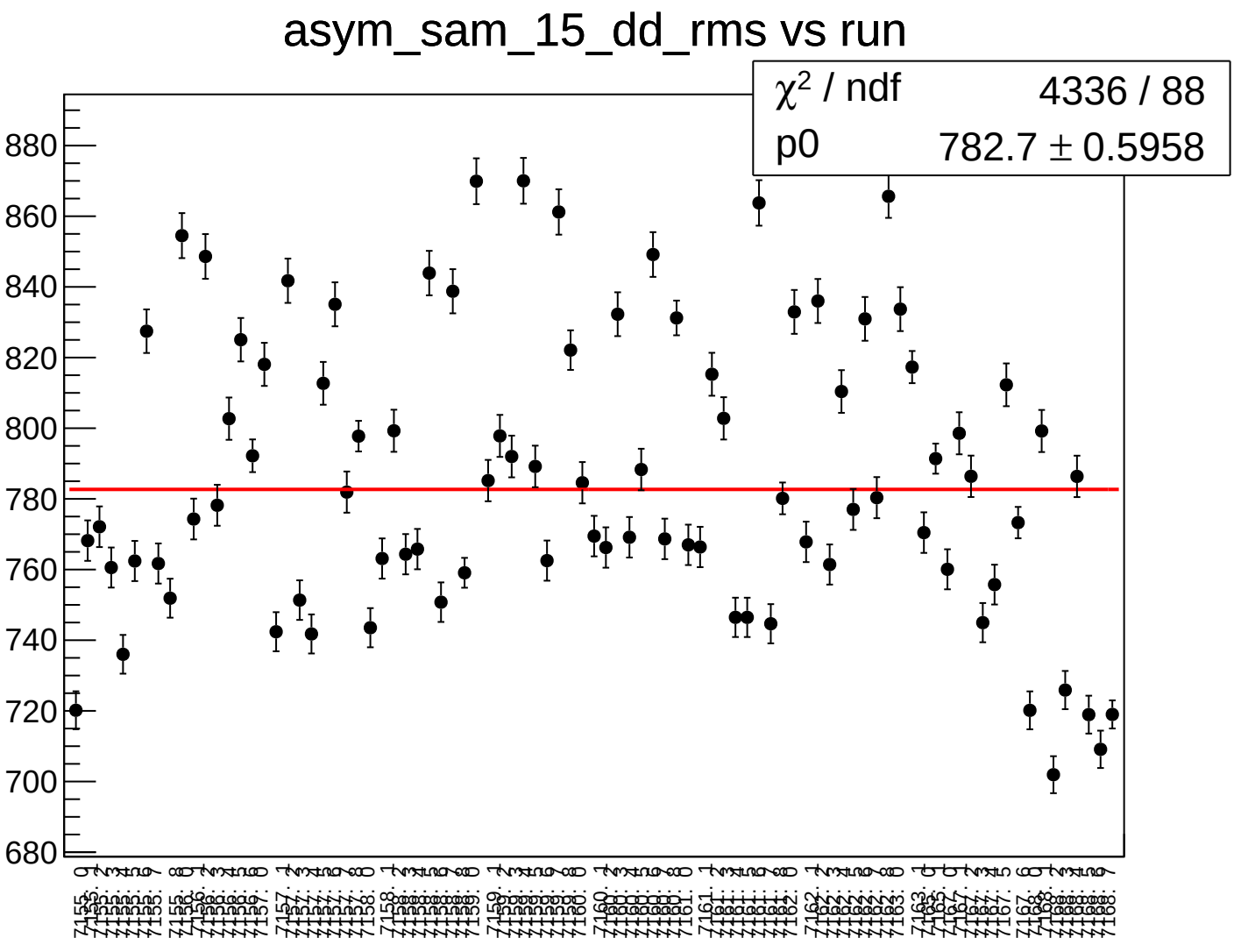

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.34 / 88
p0 −471.1 ± 860.8
30000
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −158
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

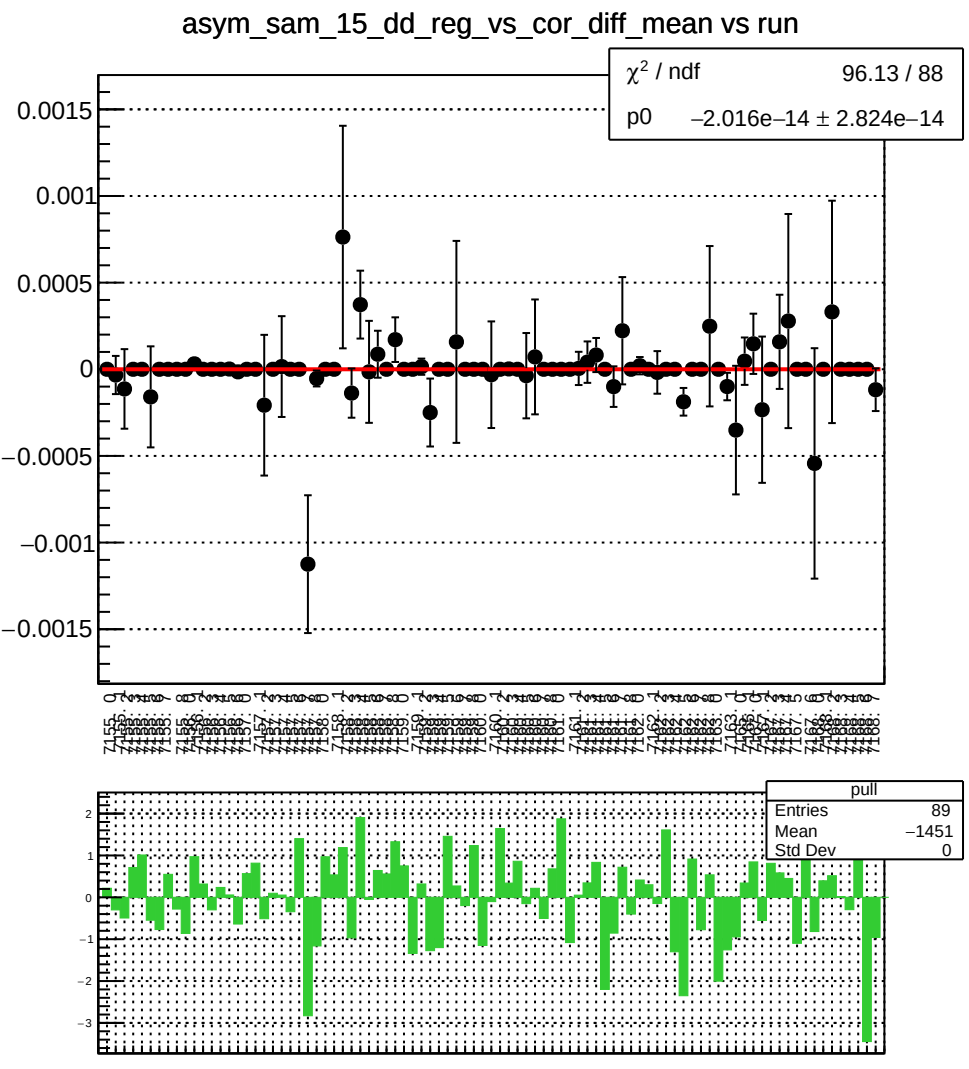

pull1D
Entries 89
Mean −0.01021
Std Dev 0.7955
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

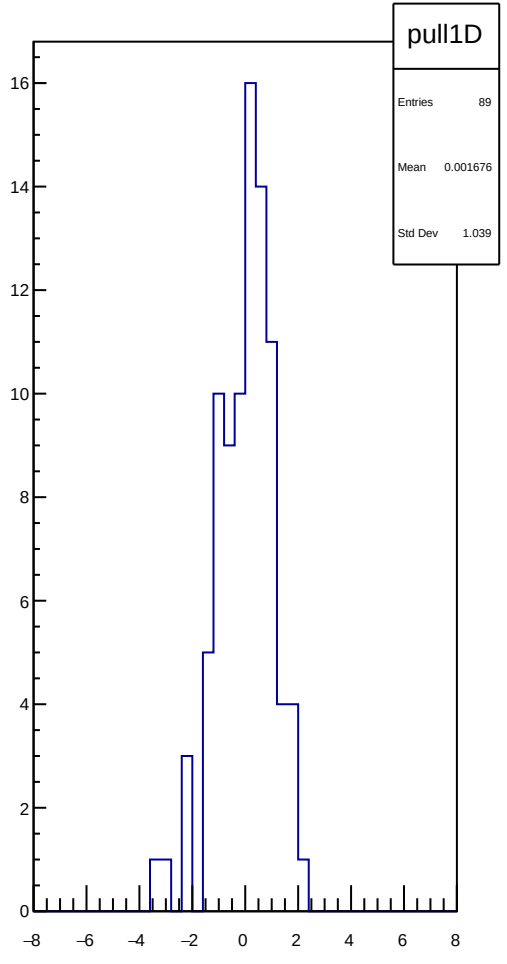

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 4153 / 88
p0 799.7 ± 0.6087
900
850
800
750
700

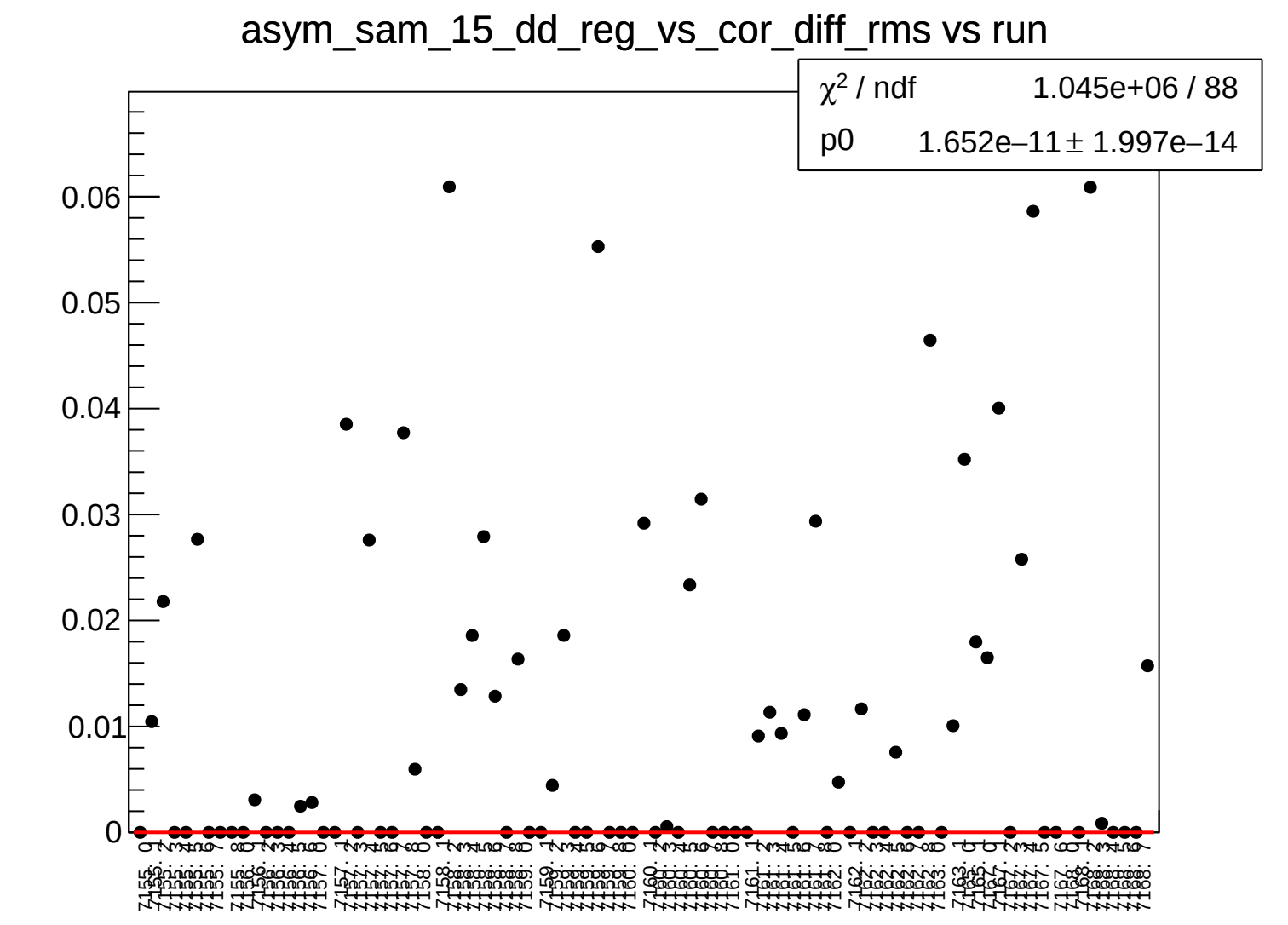

asym_sam_15_dd_mean vs run
χ^2 / ndf 59.12 / 88
p0 733.3 ± 842.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −176.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

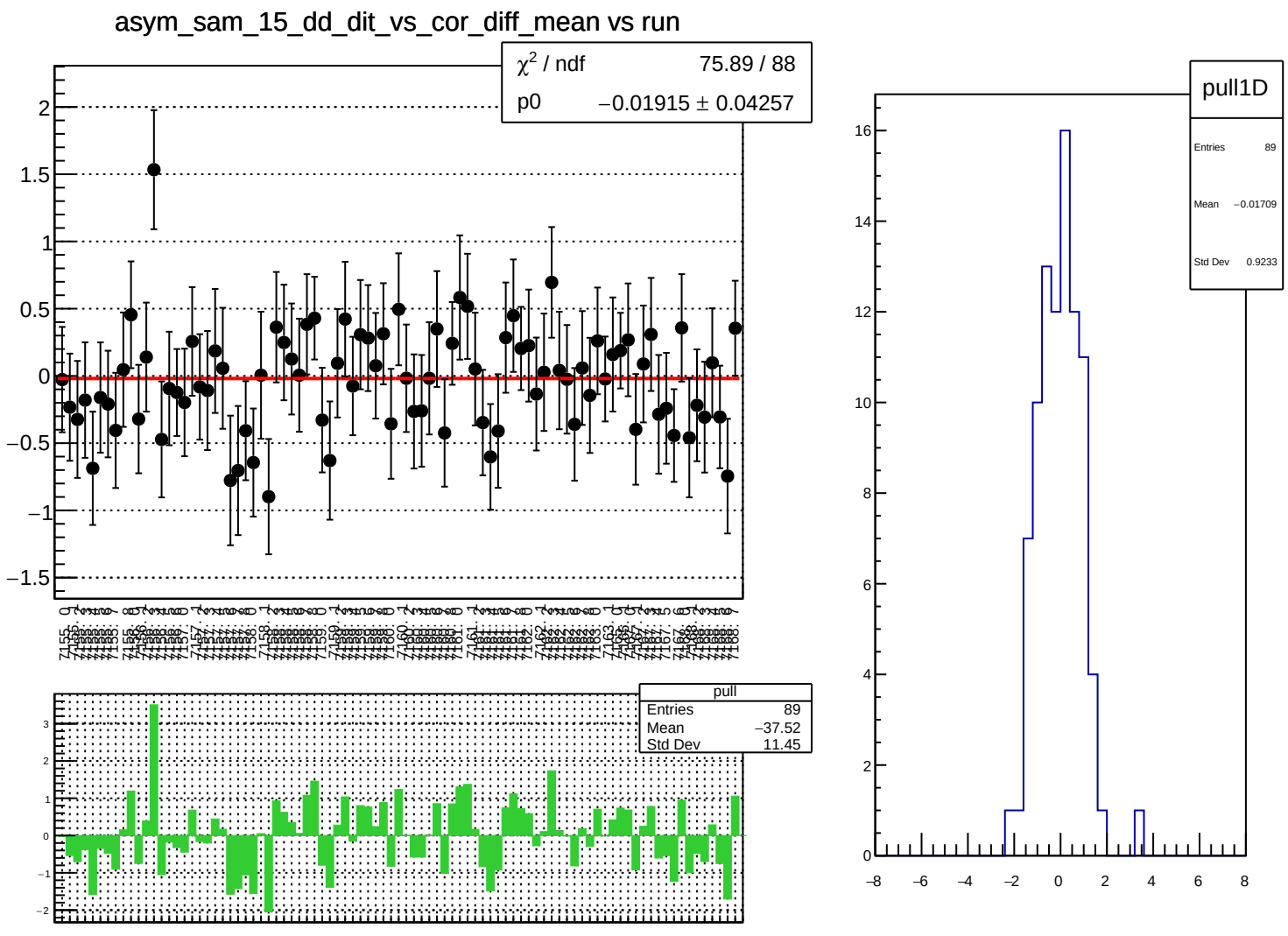

pull1D
Entries 89
Mean 0.008454
Std Dev 0.815
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

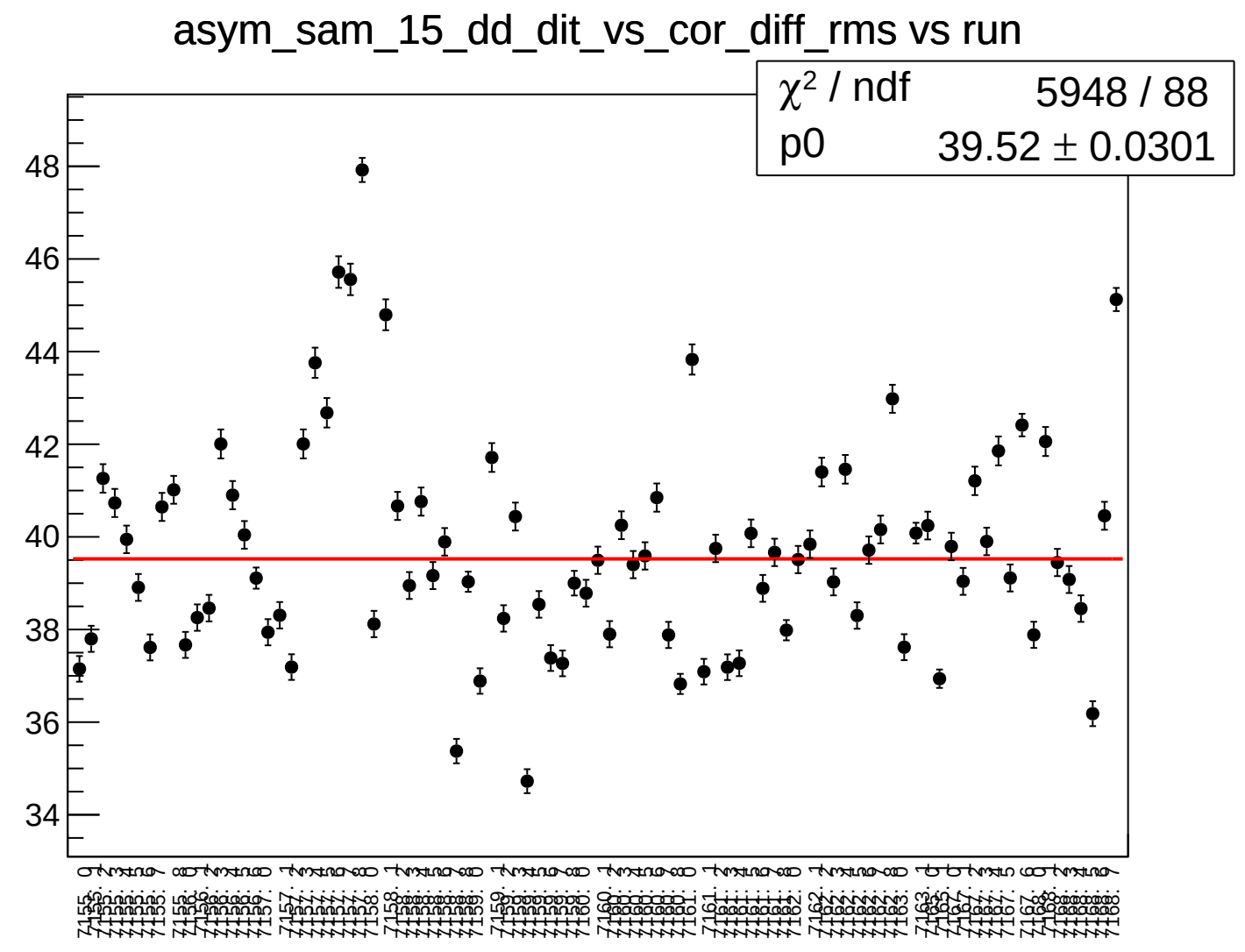

asym_sam_15_dd_rms vs run
χ² / ndf 4336 / 88
p0 782.7 ± 0.5958
880
860
840
820
800
780
760
740
720
700
680

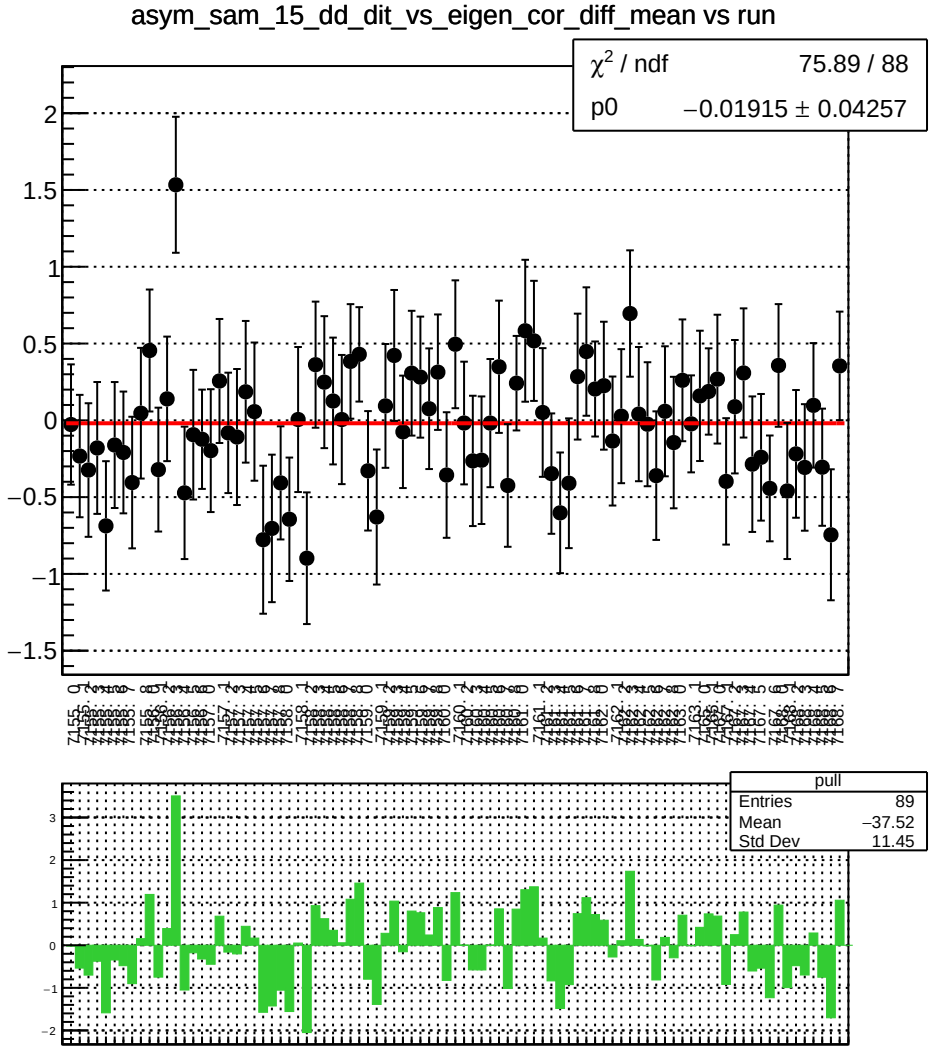

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 96.13 / 88
p0 −2.016e−14 ± 2.824e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean −1451
Std Dev 0
2
1
0
−1
−2
−3

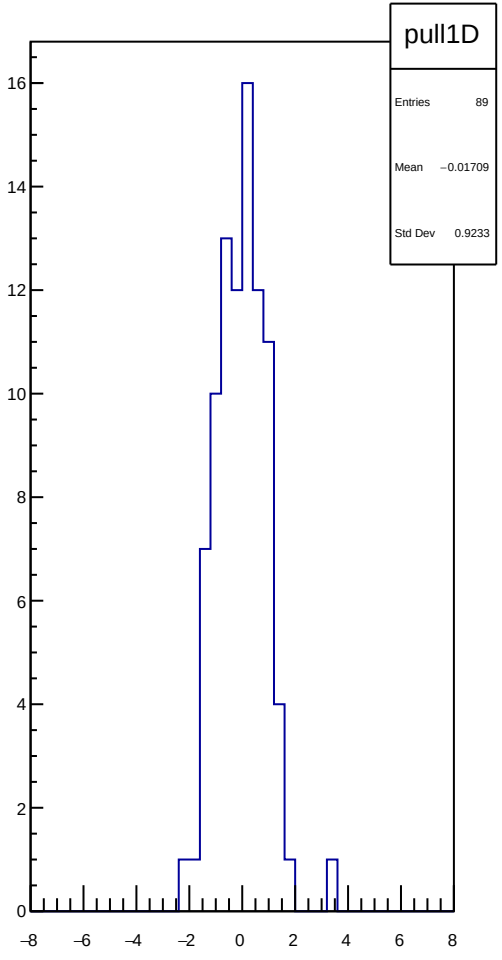

pull1D
Entries 89
Mean 0.001676
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

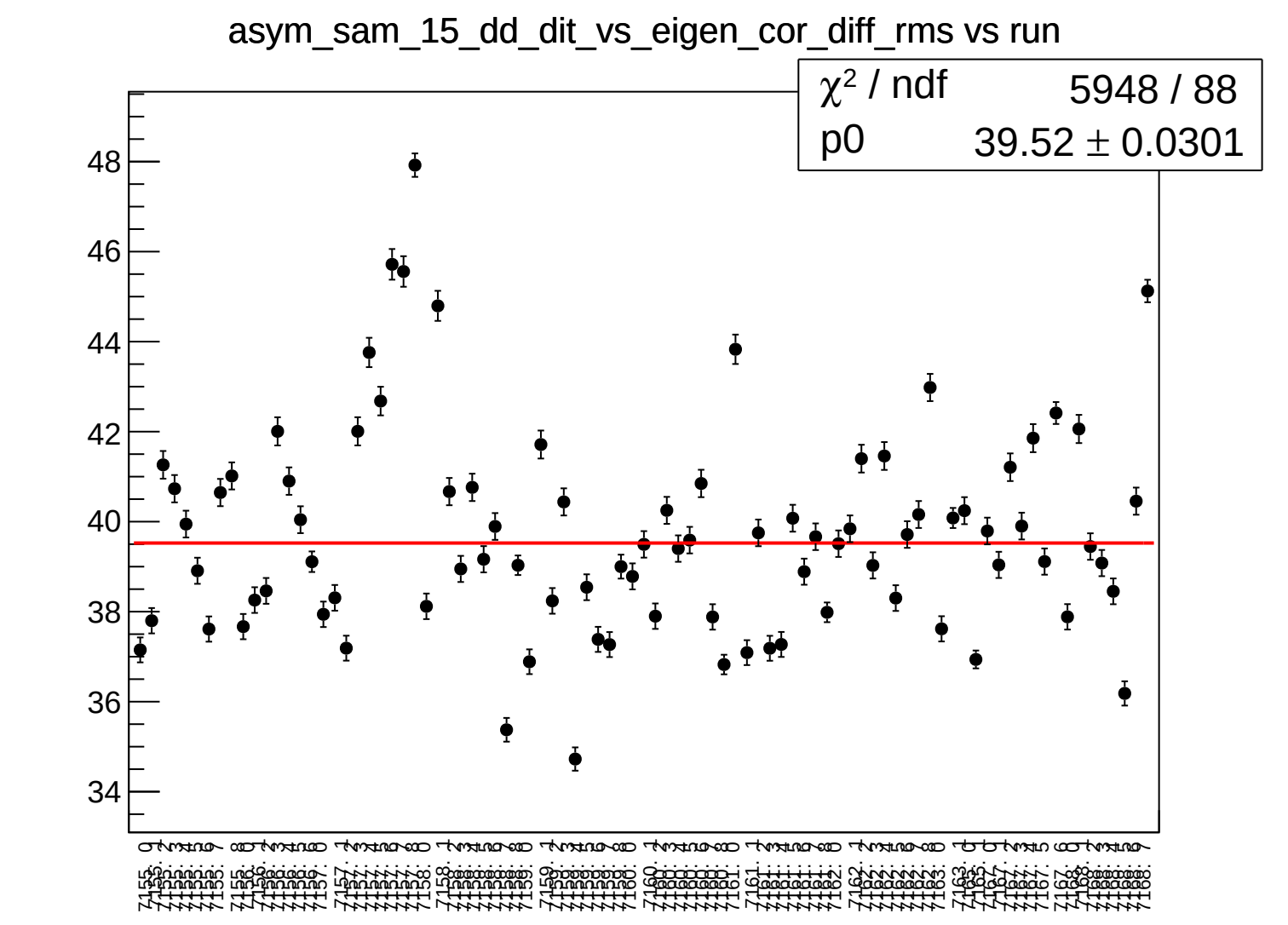

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ^2 / ndf 1.045e+06 / 88
p0 1.652e−11 ± 1.997e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

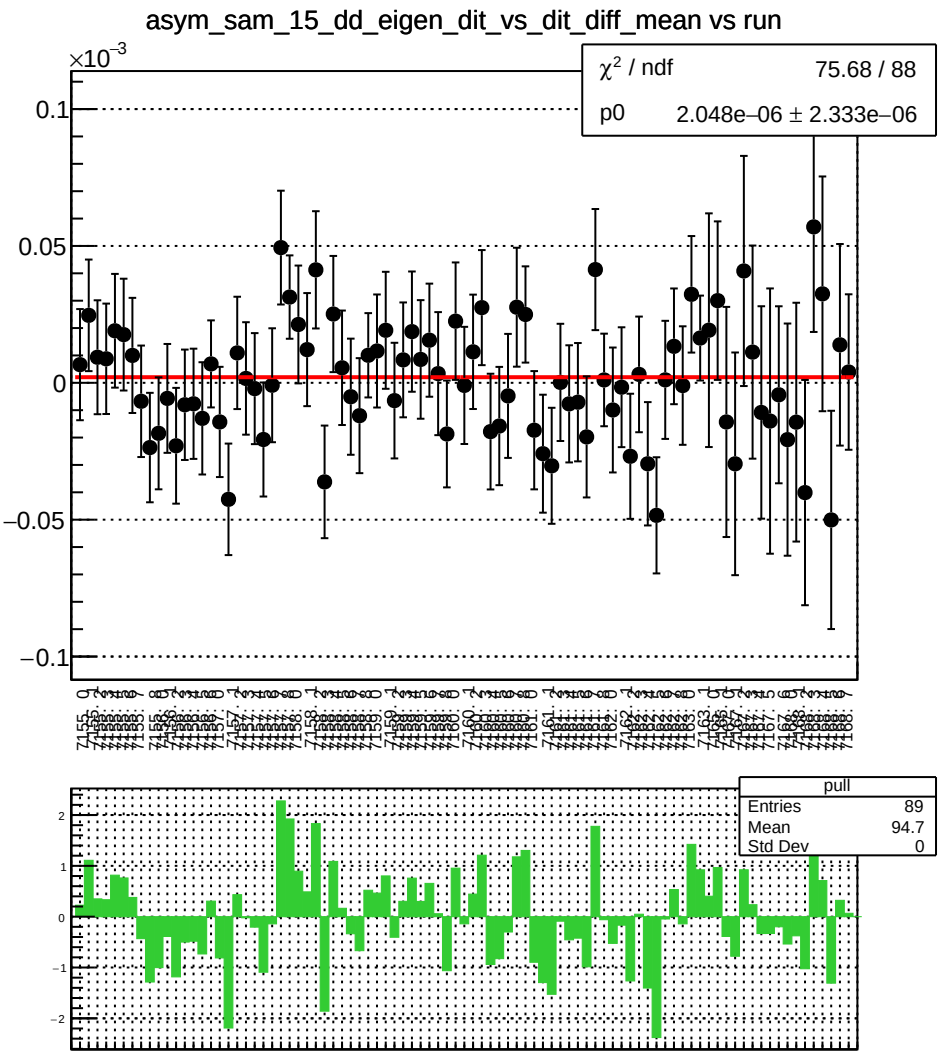

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.89 / 88
p0 −0.01915 ± 0.04257
pull
Entries 89
Mean −37.52
Std Dev 11.45
pull1D
Entries 89
Mean −0.01709
Std Dev 0.9233

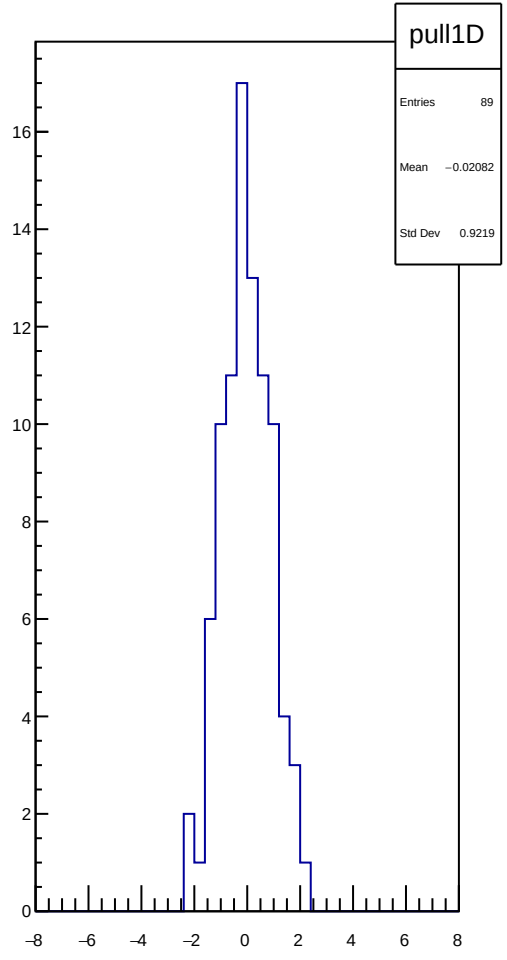

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5948 / 88
p0 39.52 ± 0.0301
48
46
44
42
40
38
36
34

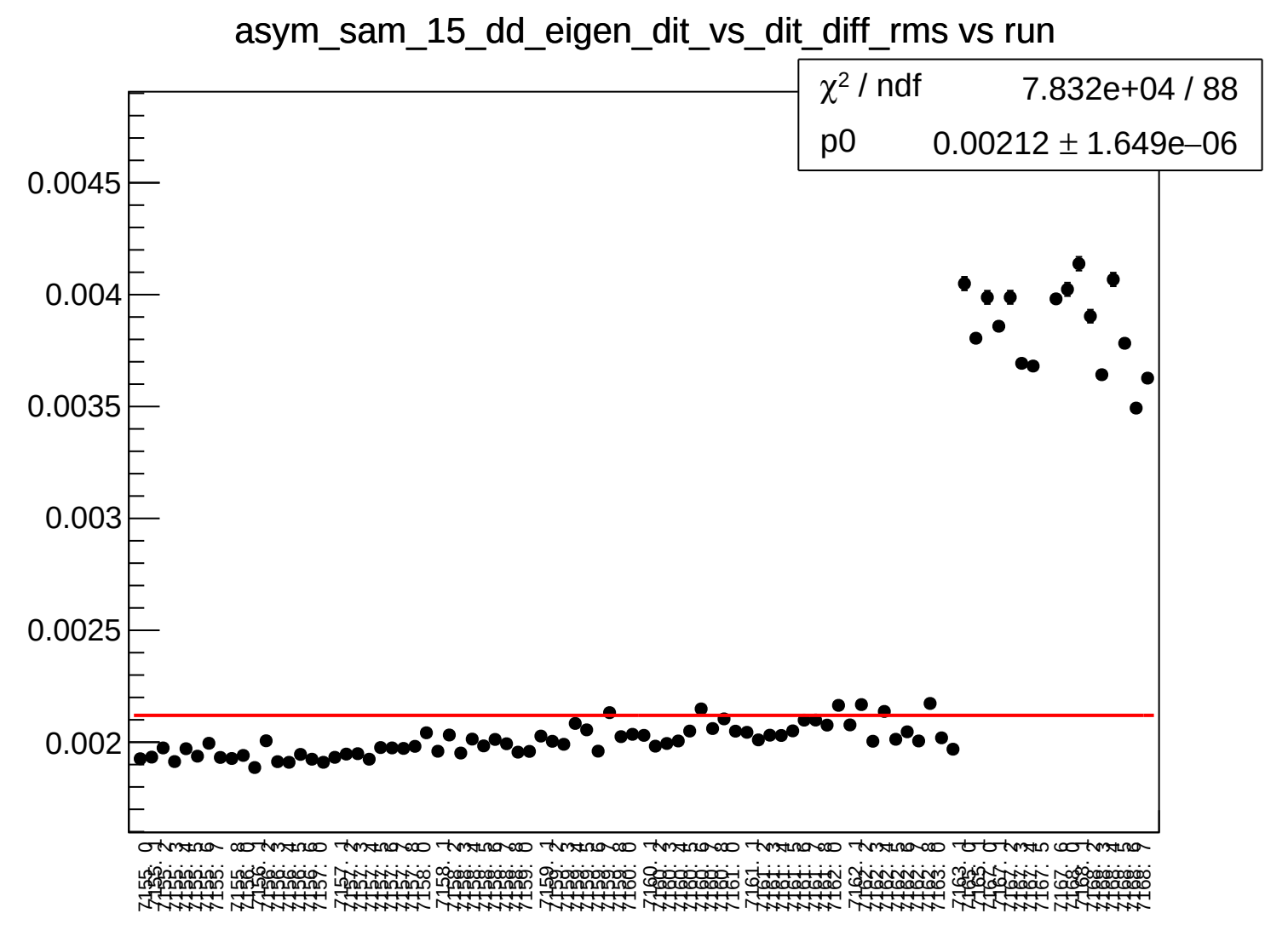

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.89 / 88
p0 −0.01915 ± 0.04257
pull
Entries 89
Mean −37.52
Std Dev 11.45

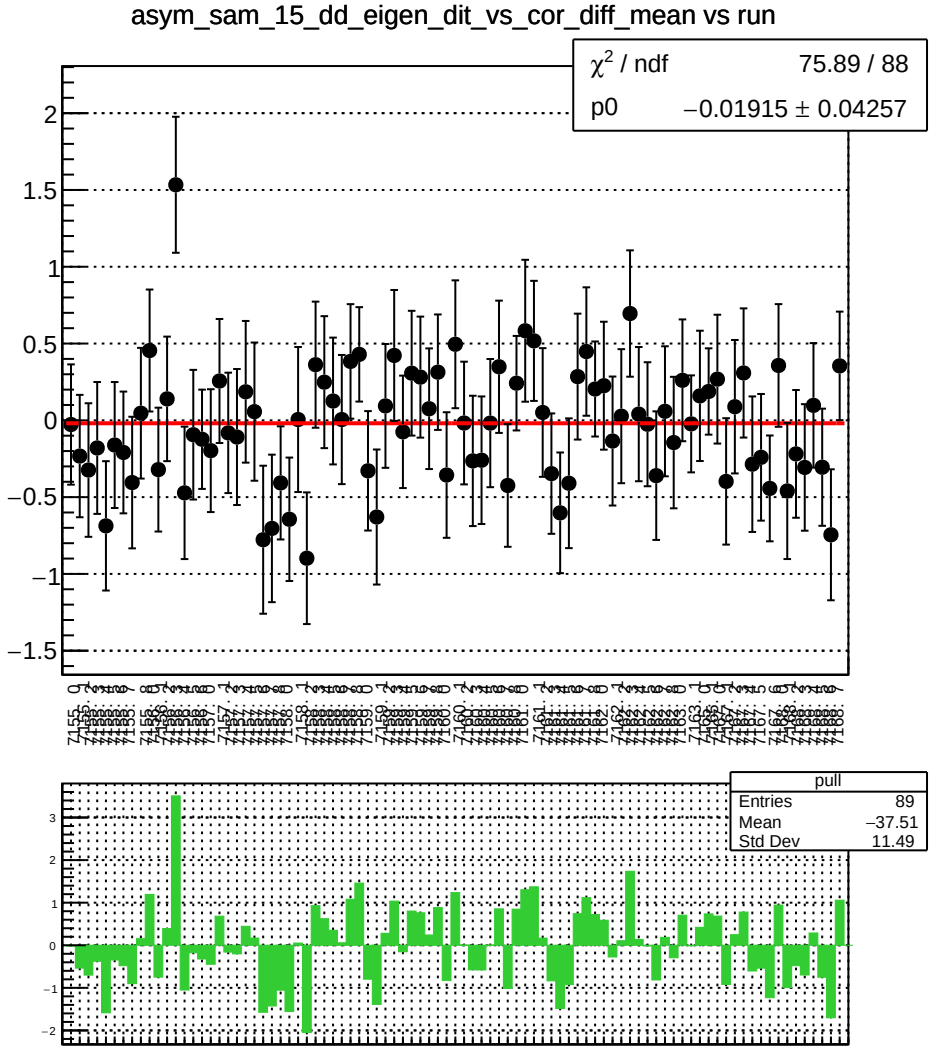

pull1D
Entries 89
Mean −0.01709
Std Dev 0.9233

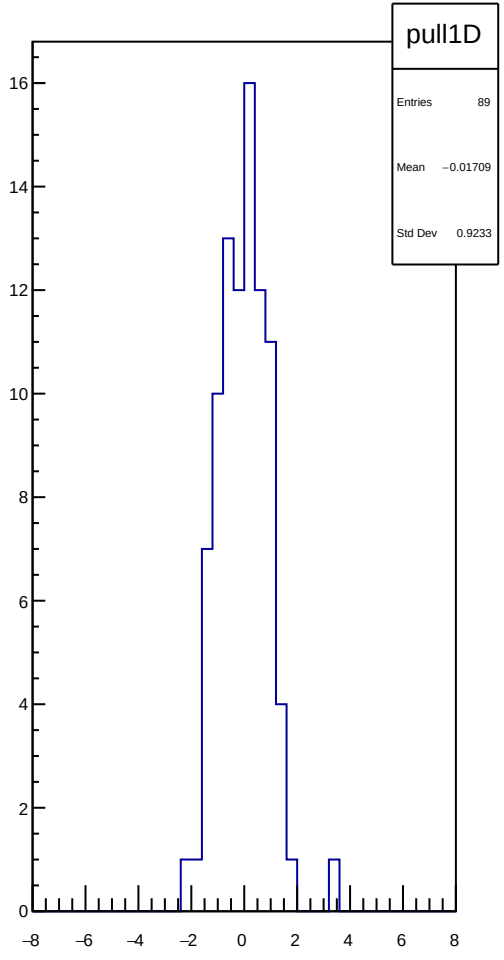

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5948 / 88
p0 39.52 ± 0.0301
48
46
44
42
40
38
36
34

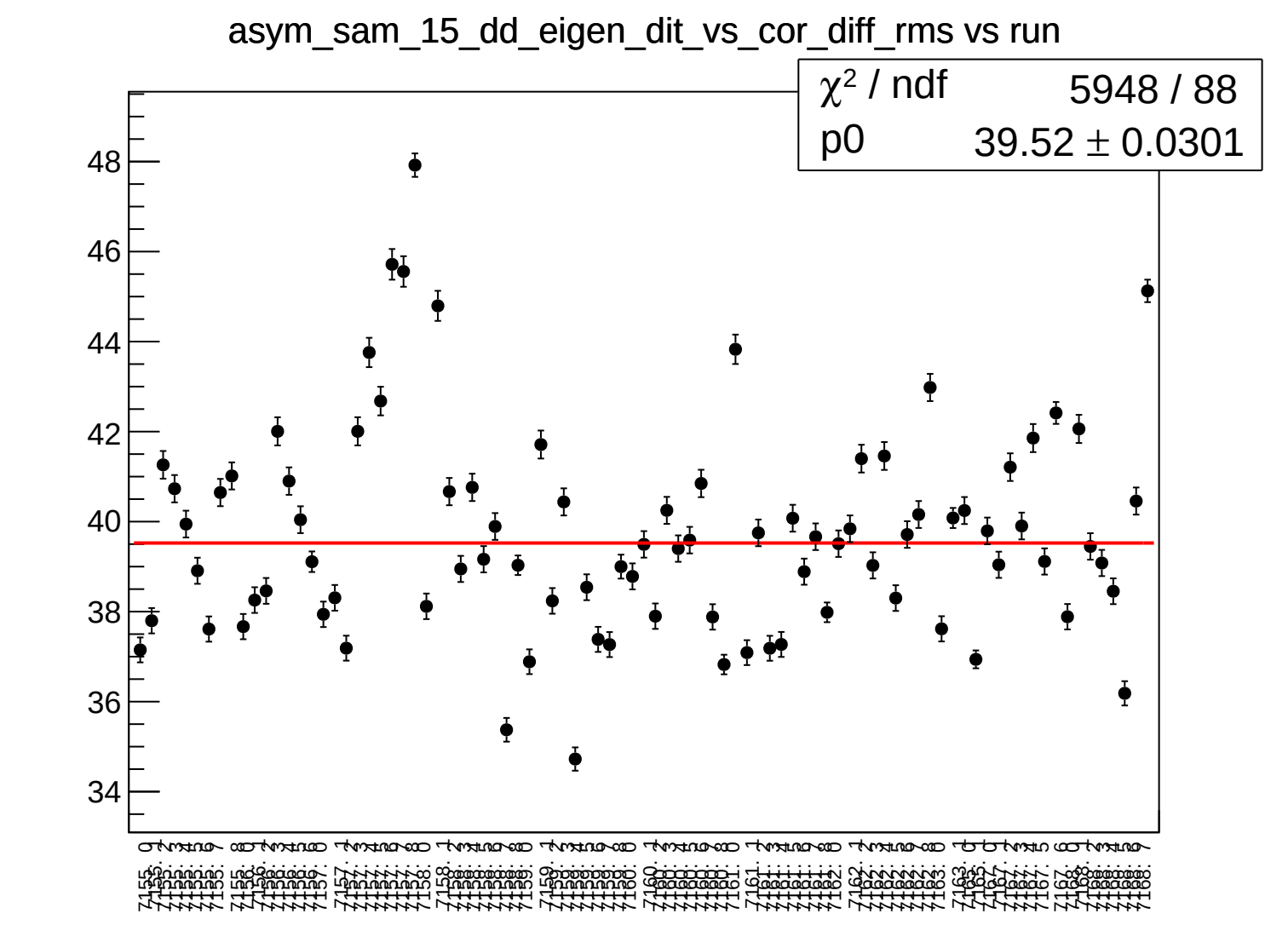

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.68 / 88
p0 2.048e−06 ± 2.333e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 94.7
Std Dev 0
2
1
0
−1
−2

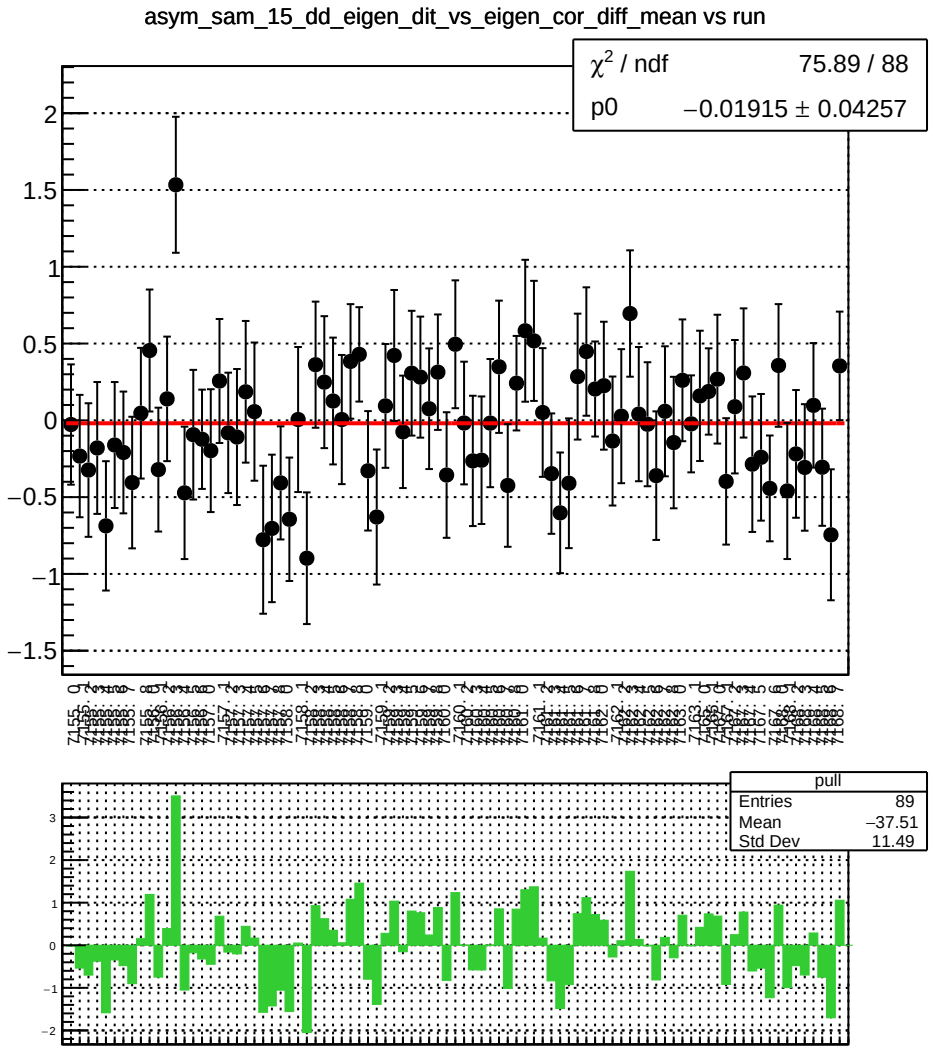

pull1D
Entries 89
Mean −0.02082
Std Dev 0.9219
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

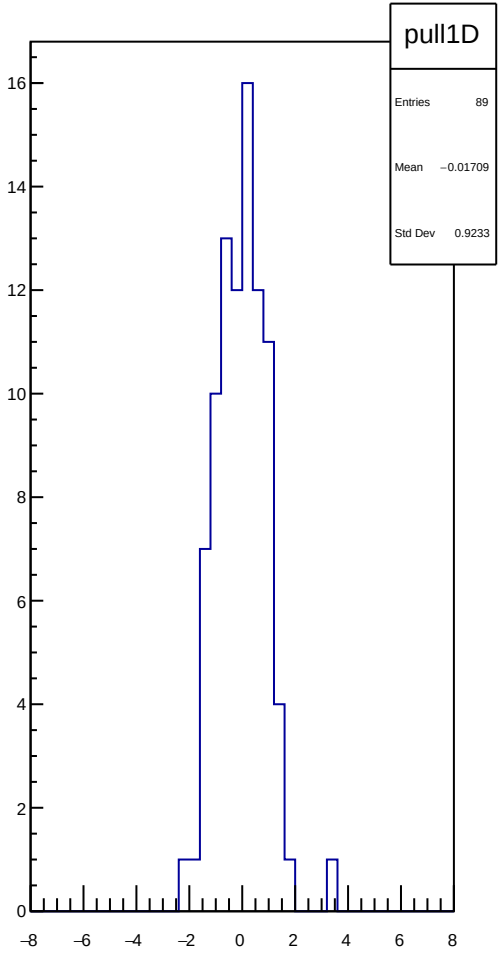

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.832e+04 / 88
p0 0.00212 ± 1.649e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

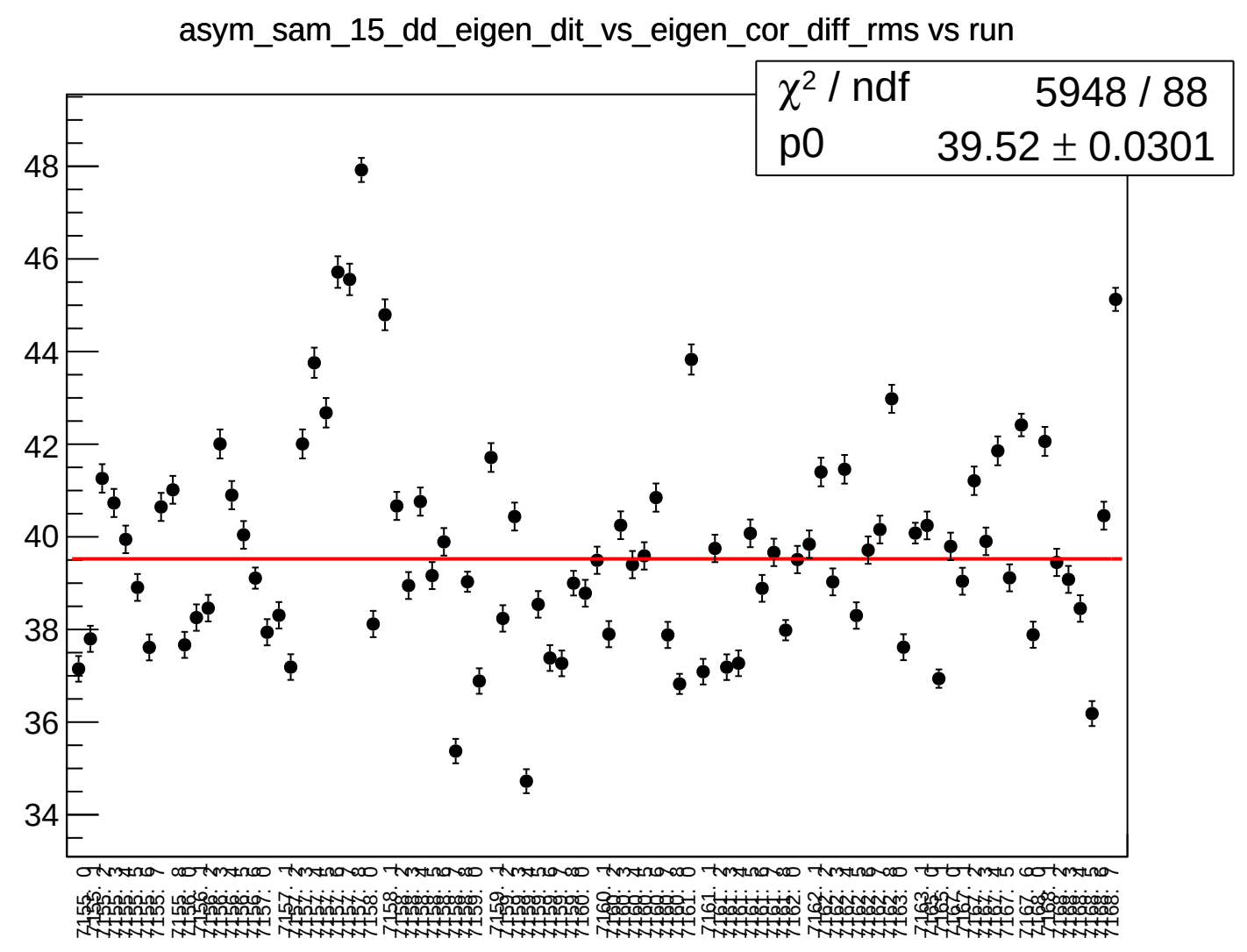

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.89 / 88
p0 −0.01915 ± 0.04257
pull
Entries 89
Mean −37.51
Std Dev 11.49

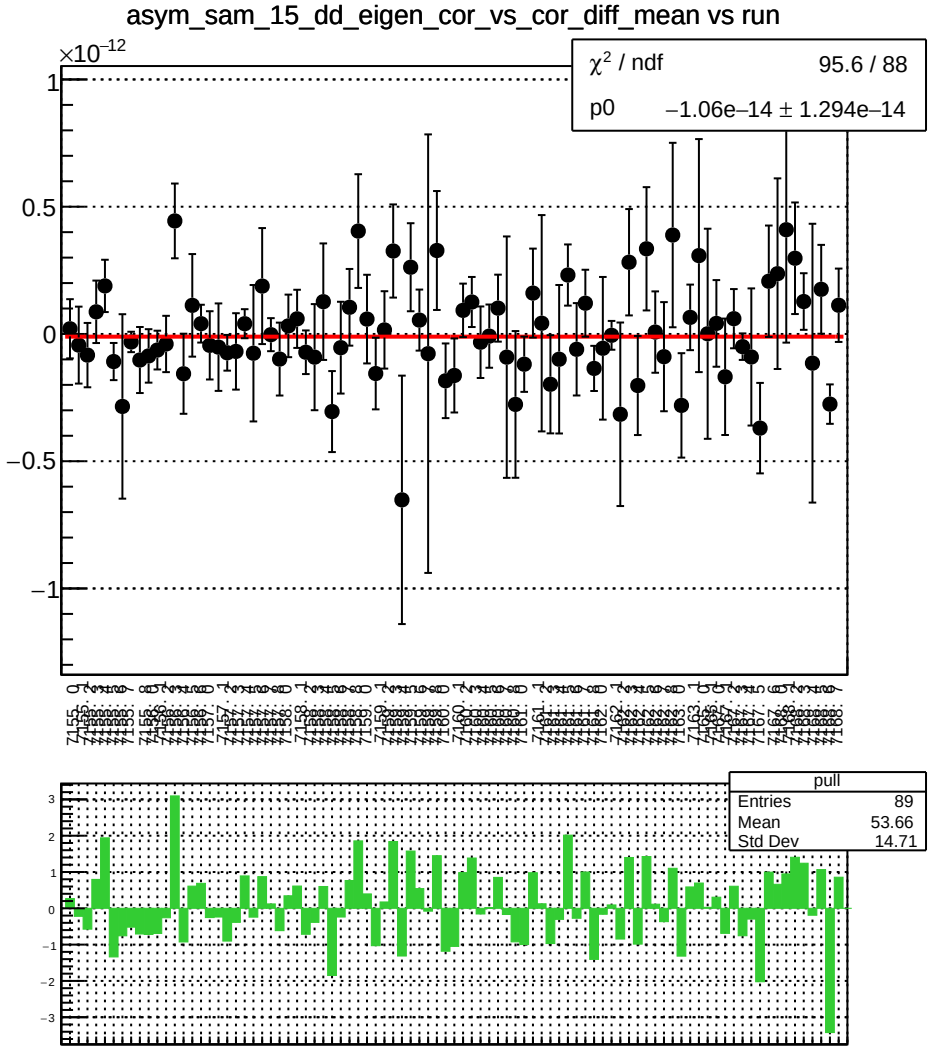

pull1D
Entries 89
Mean −0.01709
Std Dev 0.9233

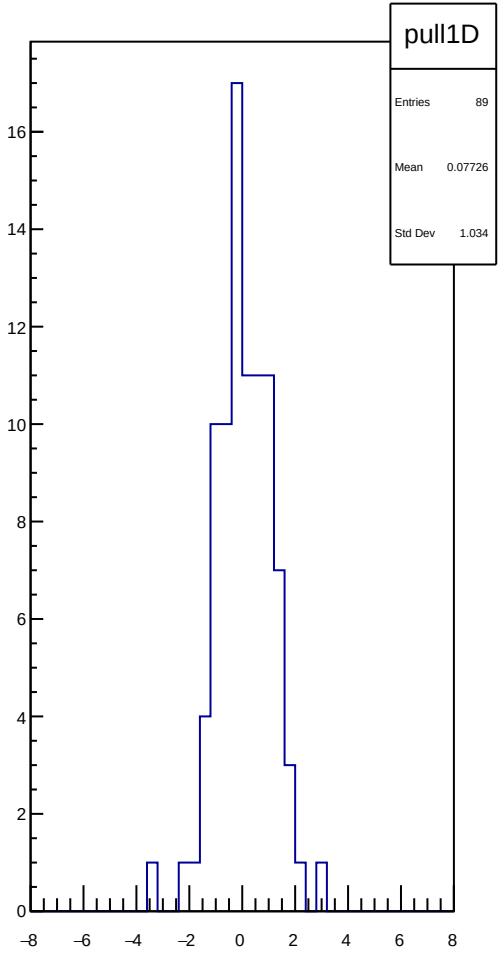

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5948 / 88
p0 39.52 ± 0.0301
48
46
44
42
40
38
36
34

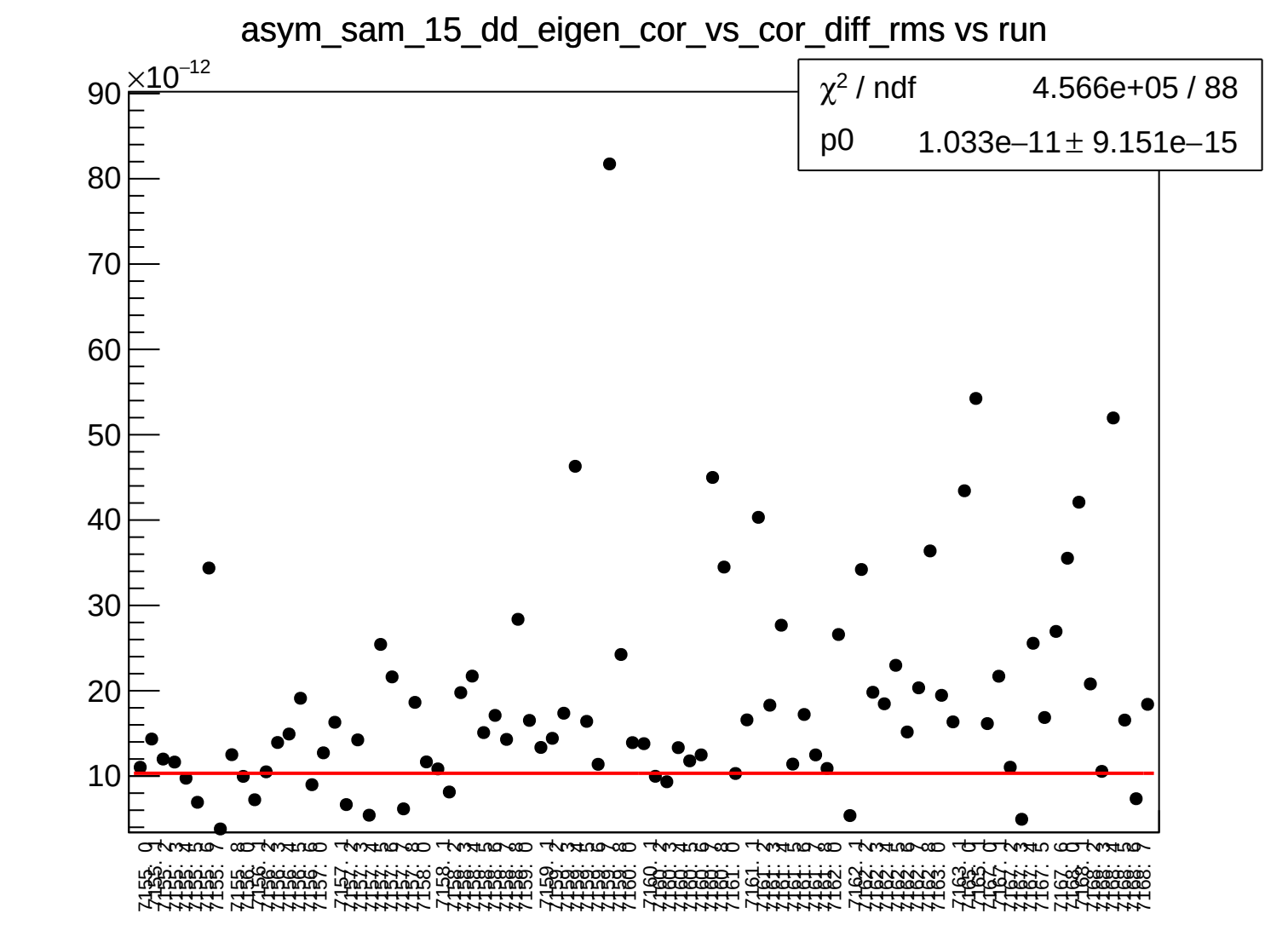

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.89 / 88
p0 −0.01915 ± 0.04257
pull
Entries 89
Mean −37.51
Std Dev 11.49

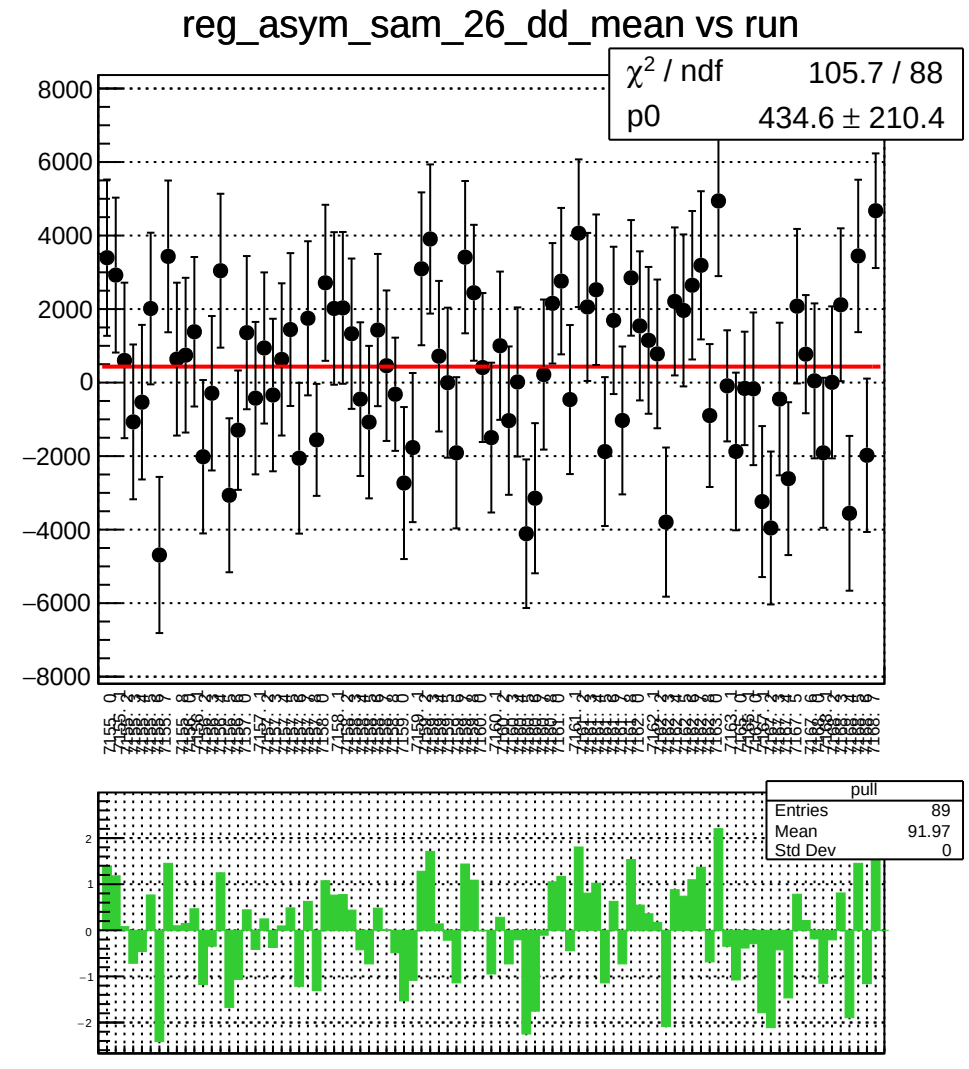

pull1D
Entries 89
Mean −0.01709
Std Dev 0.9233

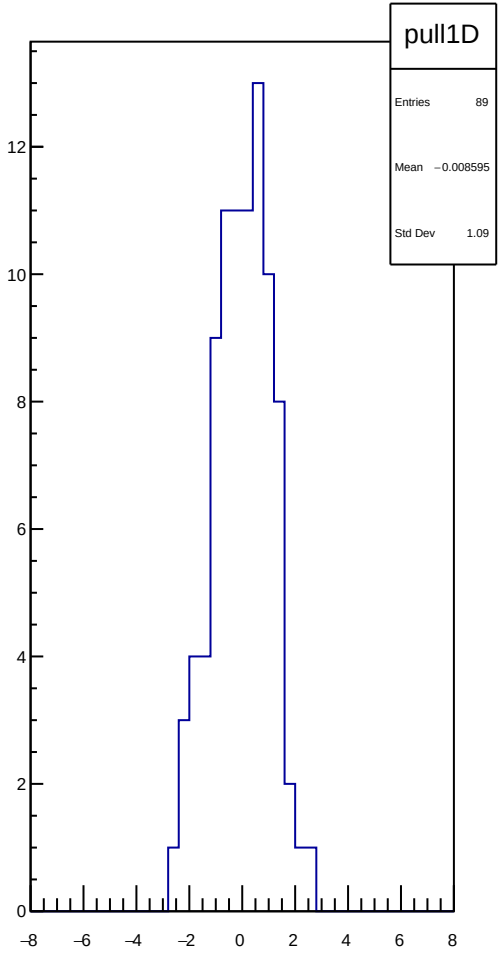

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5948 / 88
p0 39.52 ± 0.0301
48
46
44
42
40
38
36
34

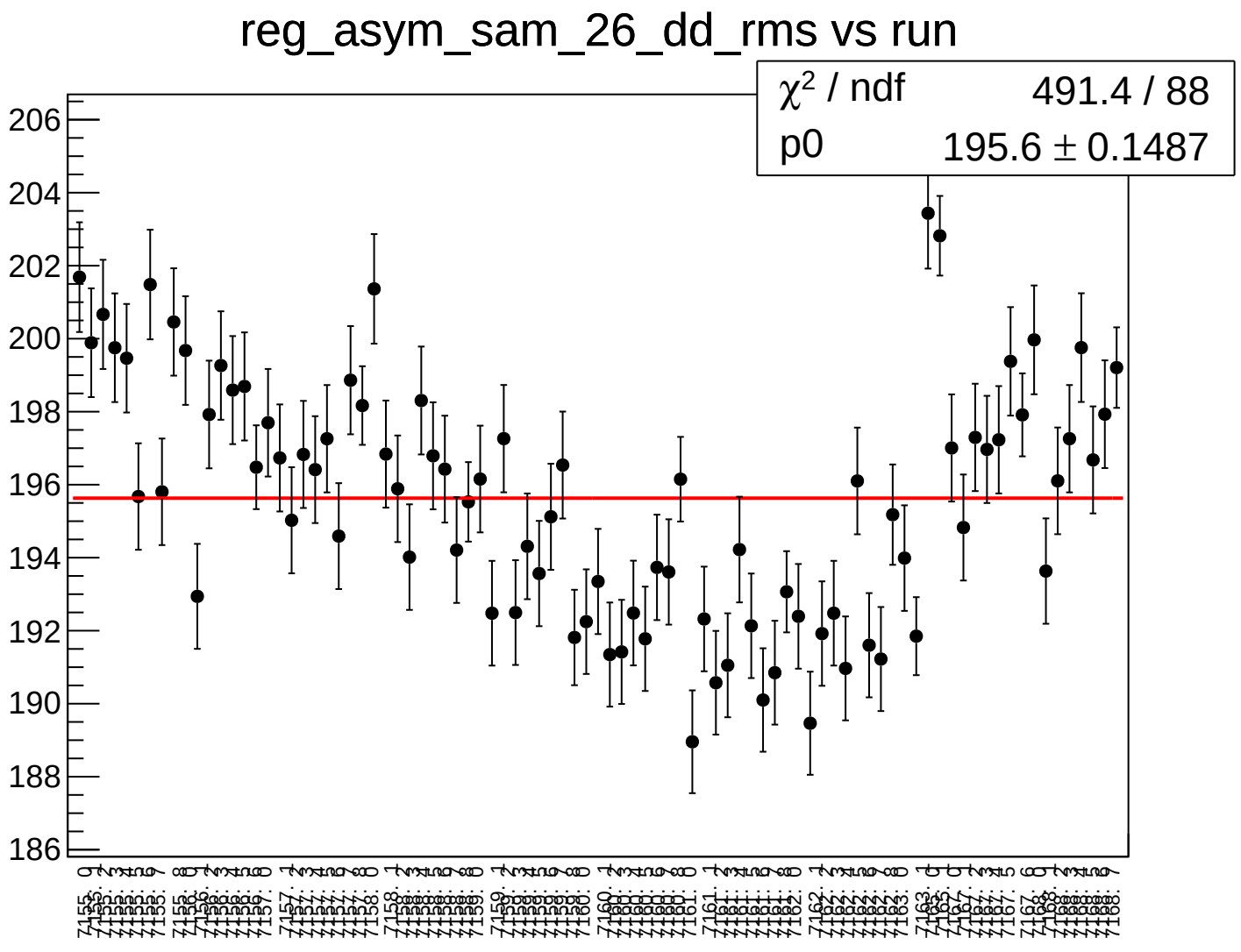

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 95.6 / 88
p0 −1.06e−14 ± 1.294e−14
pull
Entries 89
Mean 53.66
Std Dev 14.71

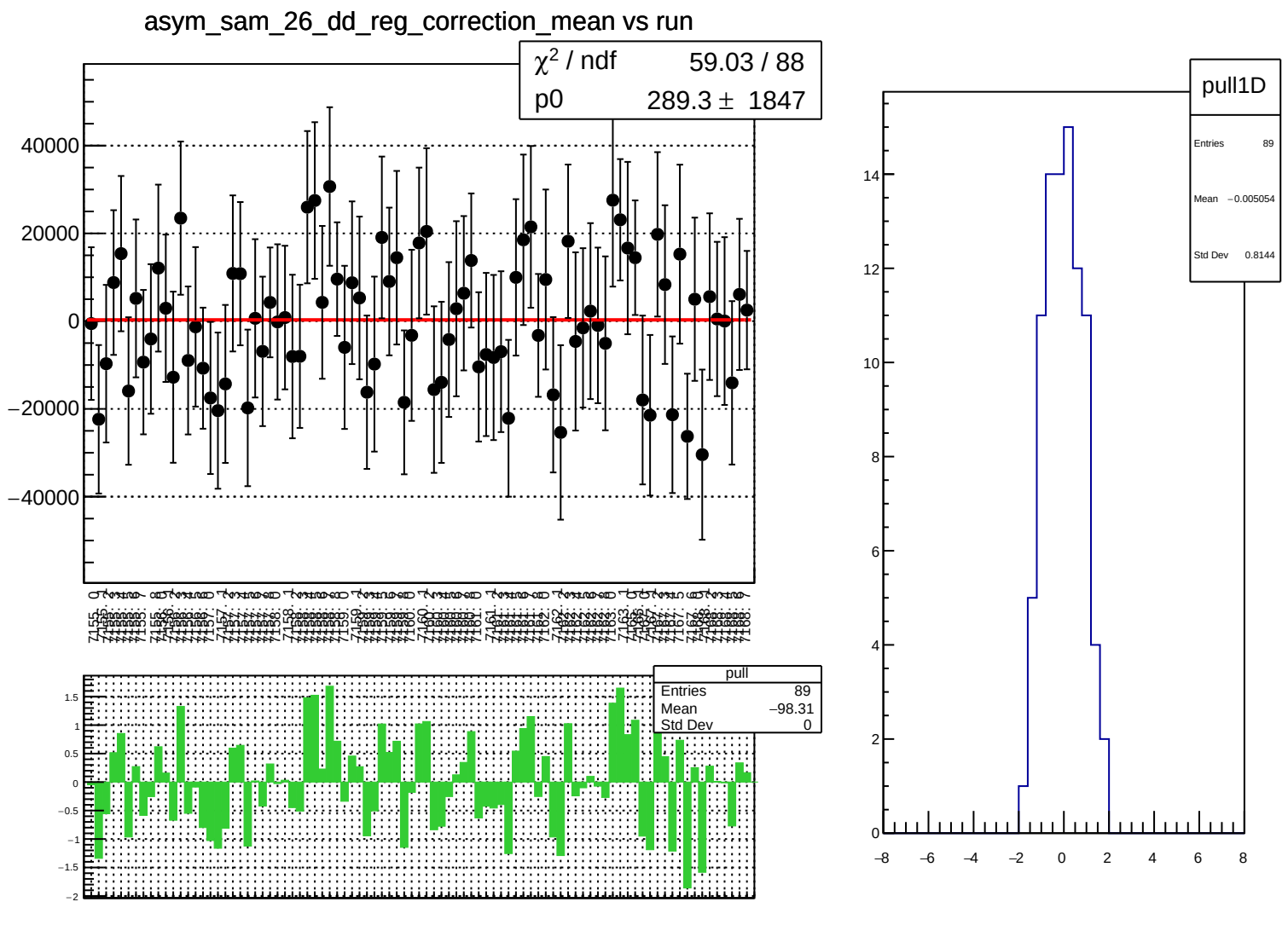

pull1D
Entries 89
Mean 0.07726
Std Dev 1.034

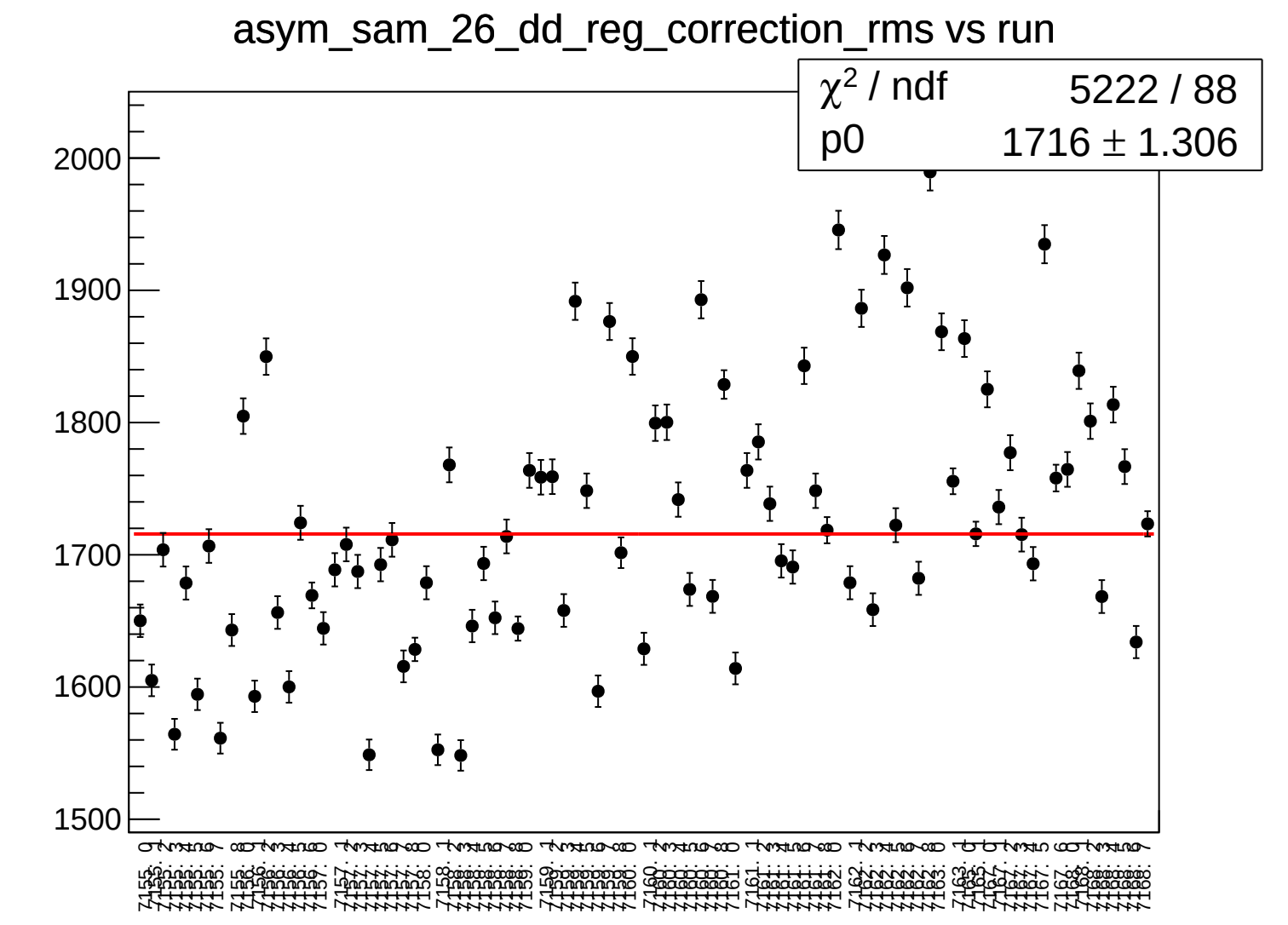

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-12}$
χ^2 / ndf 4.566e+05 / 88
p0 1.033e−11 ± 9.151e−15
90
80
70
60
50
40
30
20
10

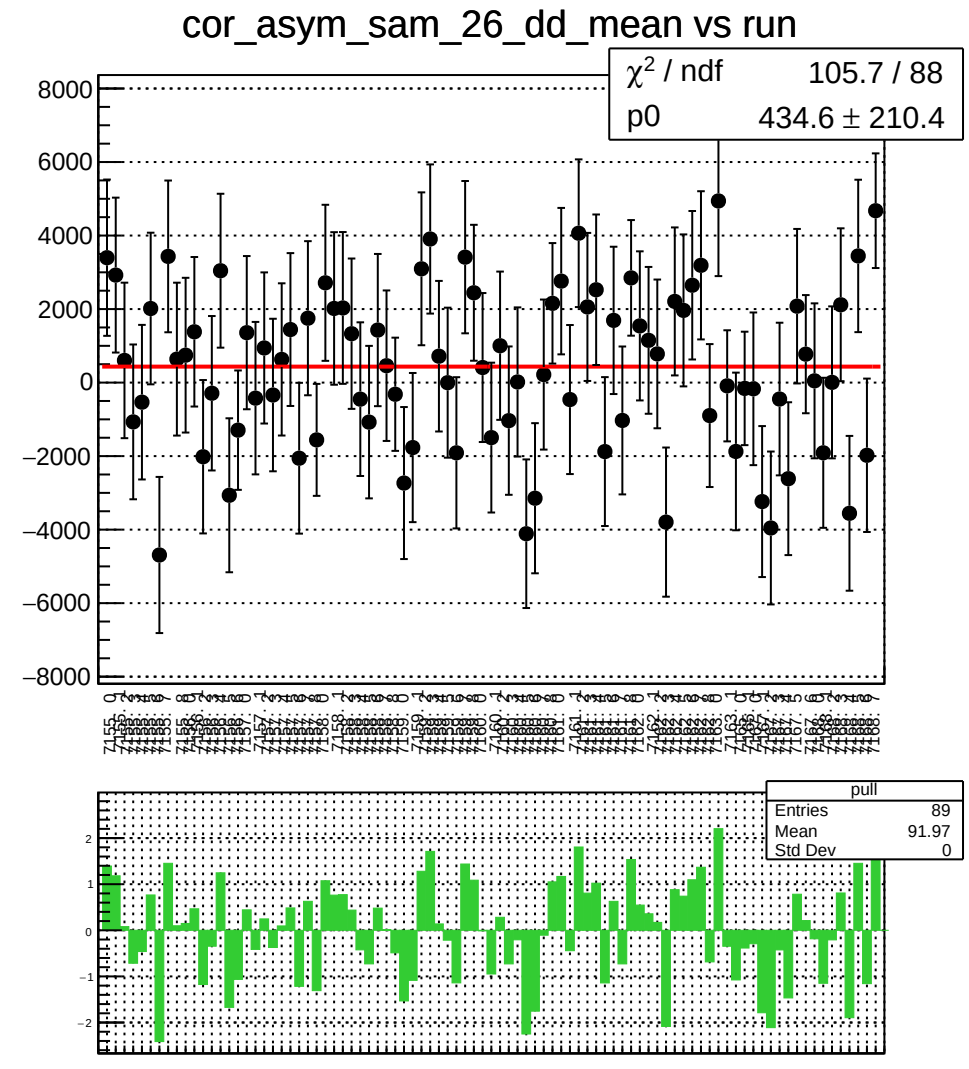

reg_asym_sam_26_dd_mean vs run
χ² / ndf 105.7 / 88
p0 434.6 ± 210.4
pull
Entries 89
Mean 91.97
Std Dev 0

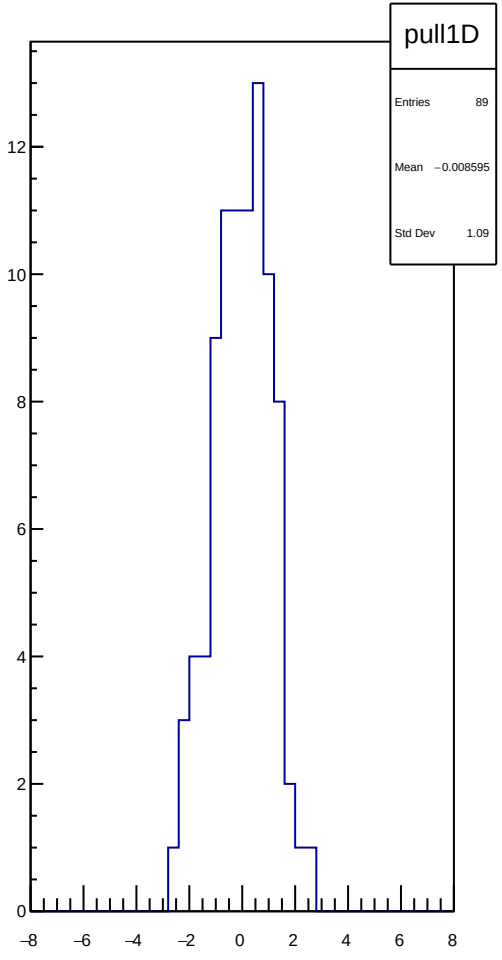

pull1D
Entries 89
Mean −0.008595
Std Dev 1.09

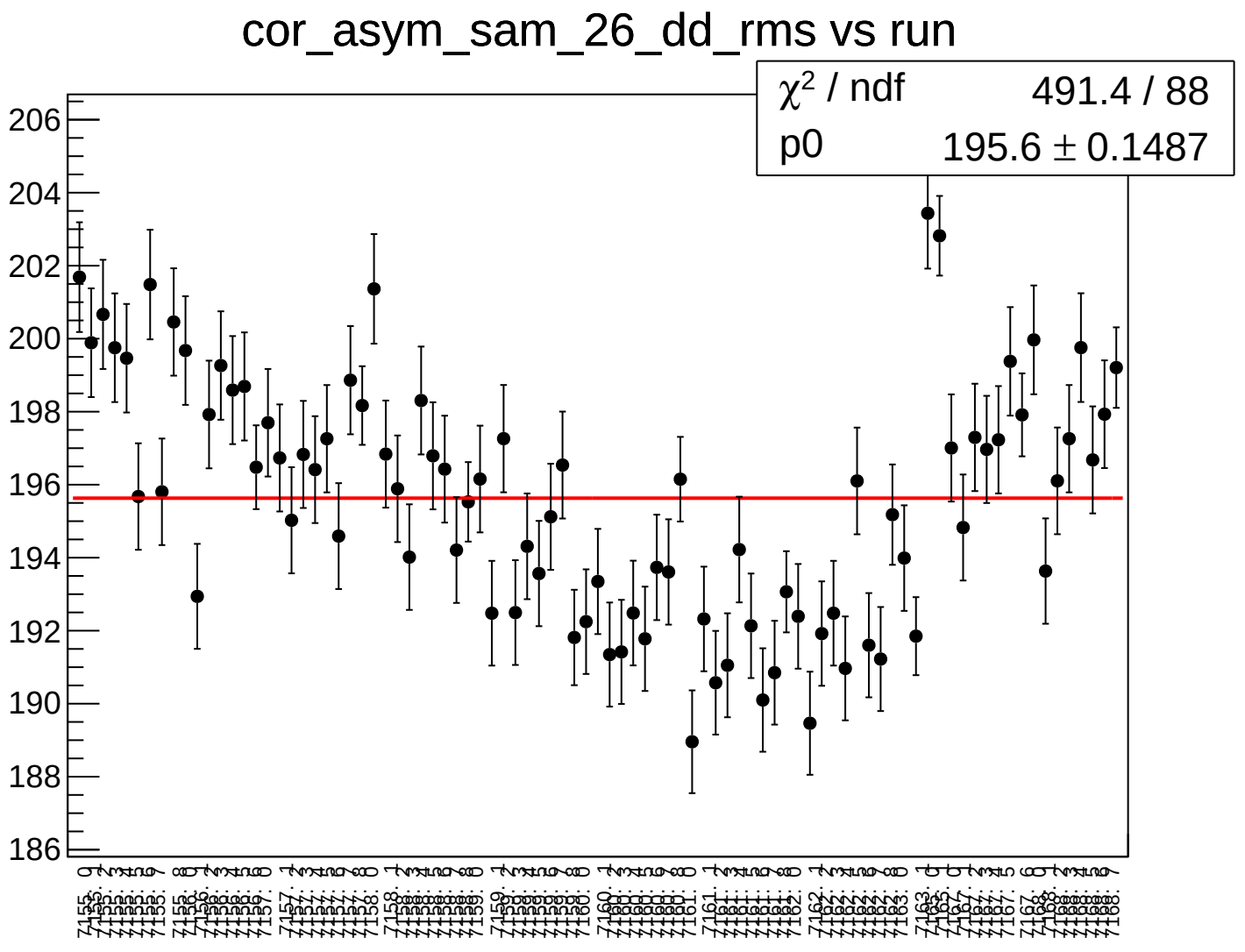

reg_asym_sam_26_dd_rms vs run
χ² / ndf 491.4 / 88
p0 195.6 ± 0.1487
206
204
202
200
198
196
194
192
190
188
186

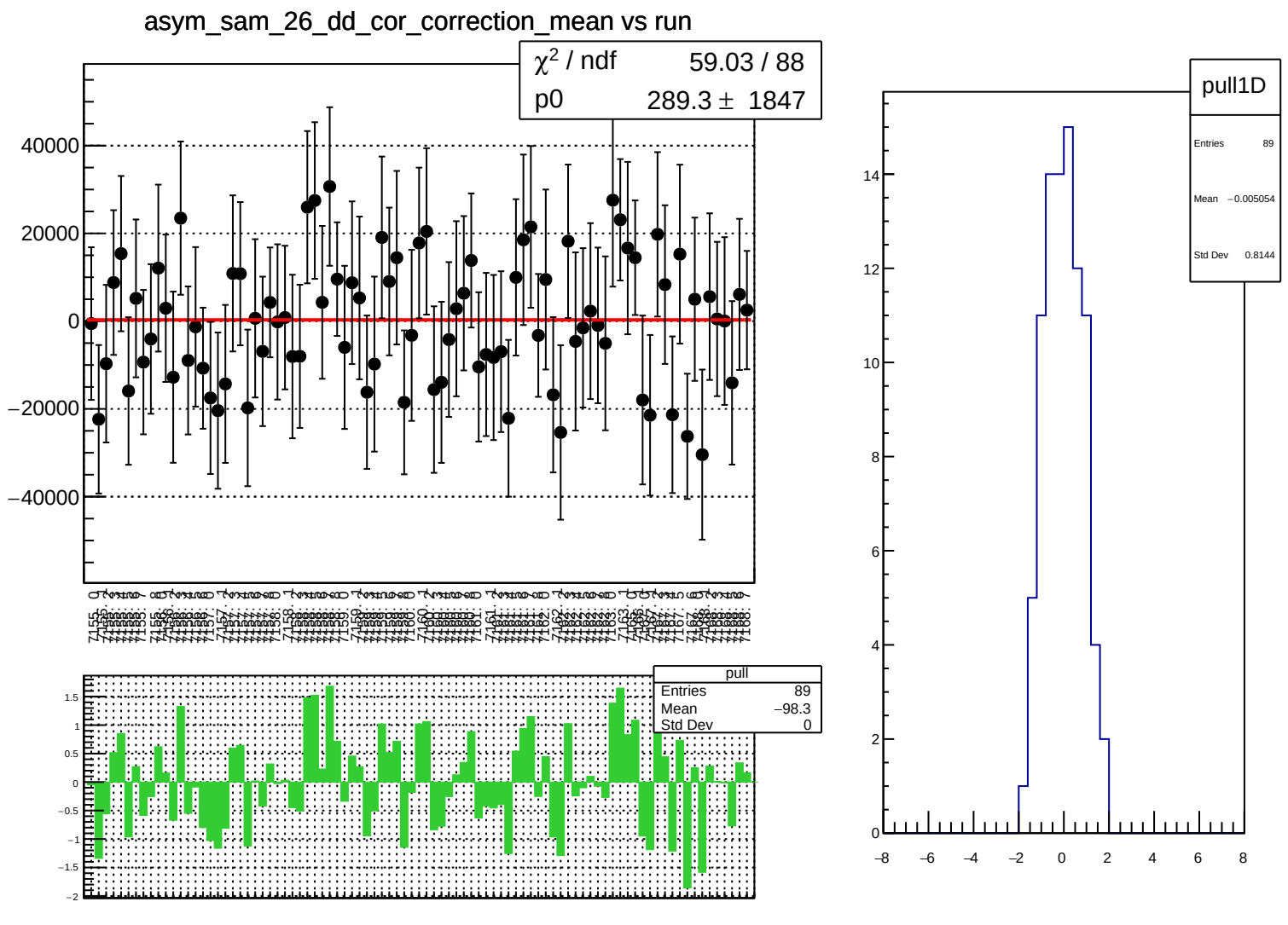

asym_sam_26_dd_reg_correction_mean vs run
χ² / ndf 59.03 / 88
p0 289.3 ± 1847
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −98.31
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.005054
Std Dev 0.8144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

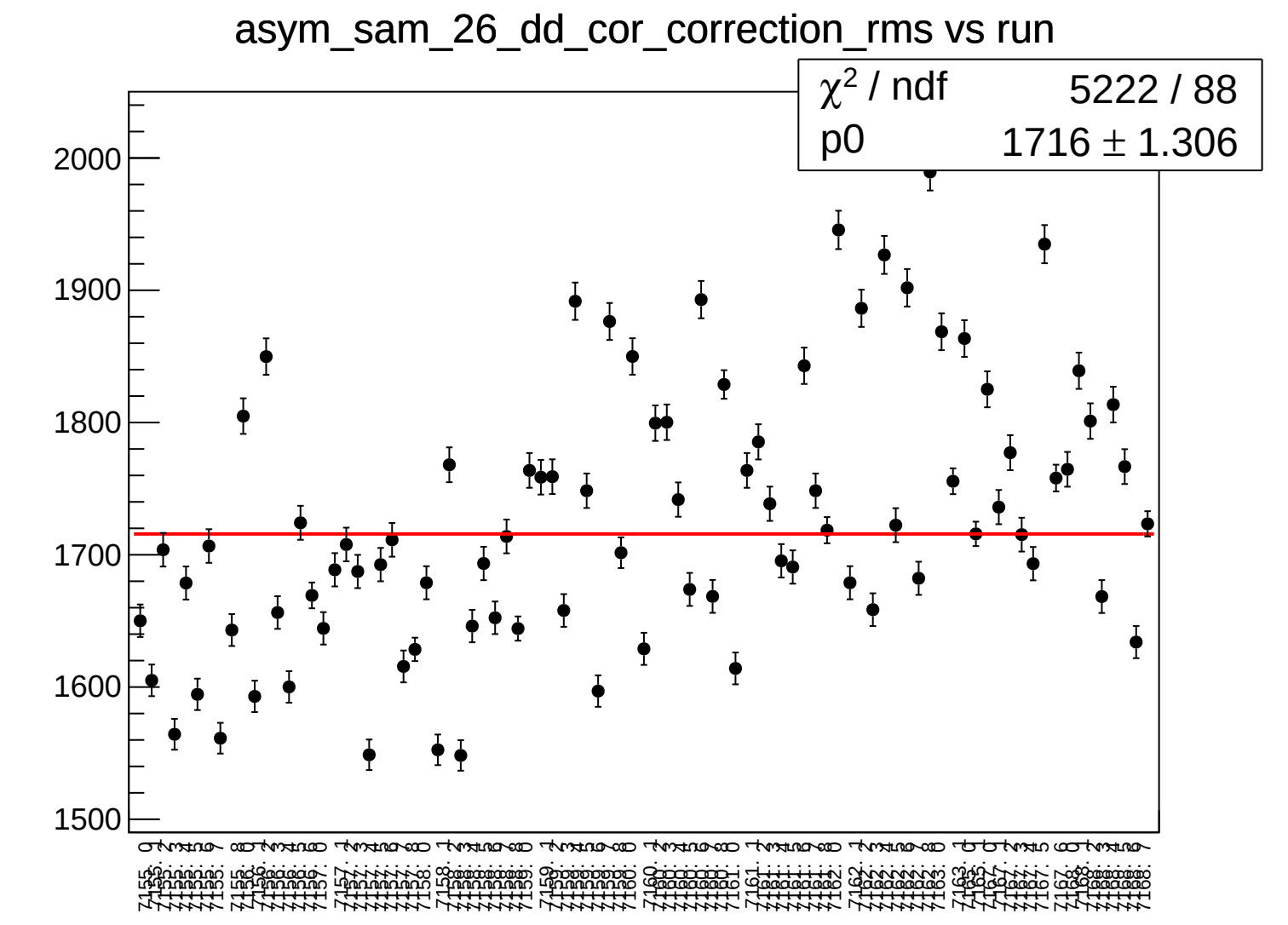

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 5222 / 88
p0 1716 ± 1.306
2000
1900
1800
1700
1600
1500

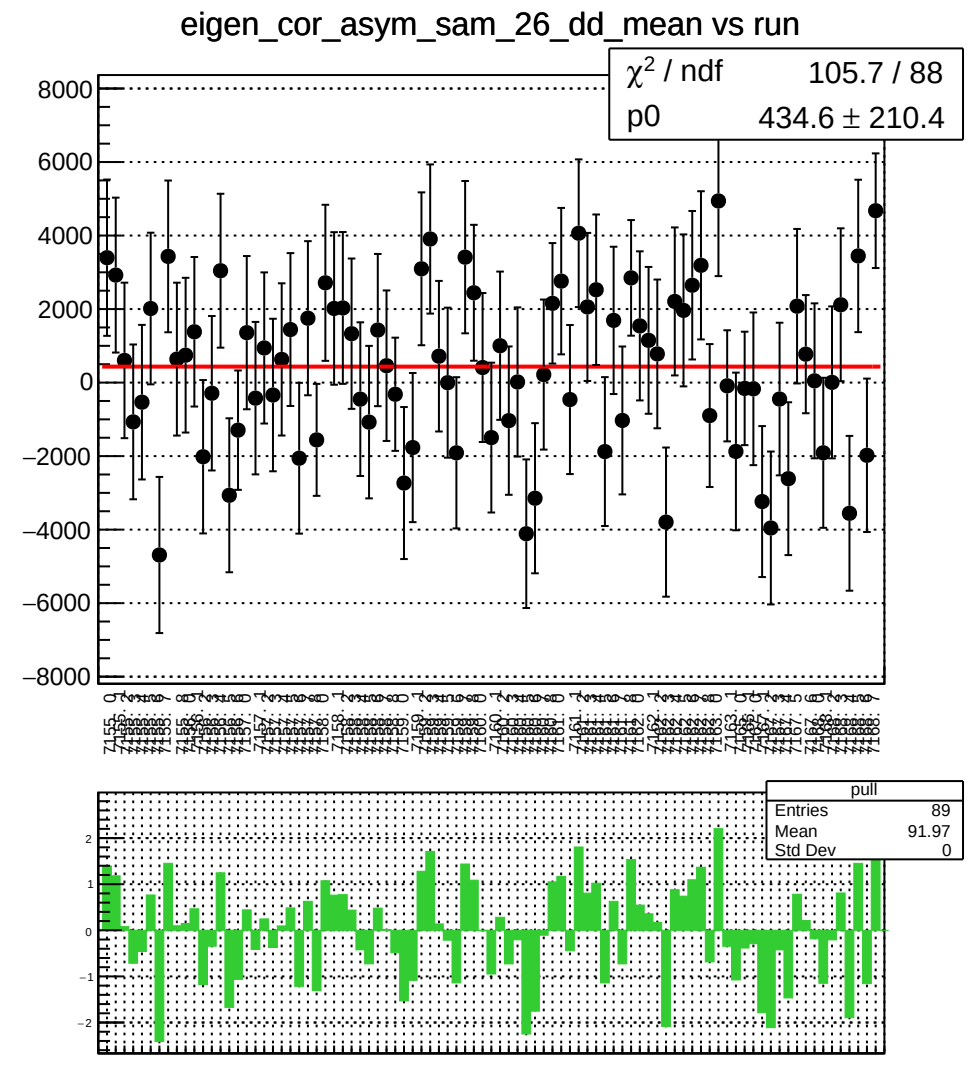

cor_asym_sam_26_dd_mean vs run
χ² / ndf 105.7 / 88
p0 434.6 ± 210.4
pull
Entries 89
Mean 91.97
Std Dev 0

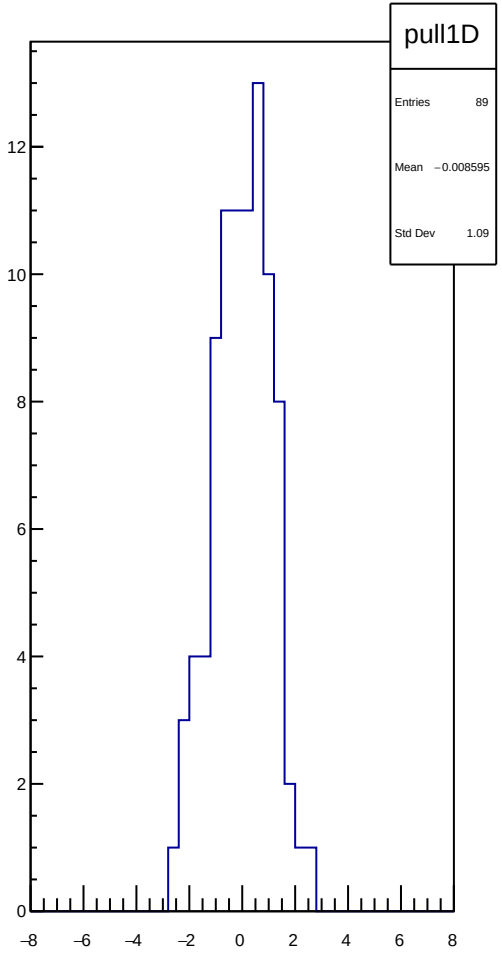

pull1D
Entries 89
Mean −0.008595
Std Dev 1.09

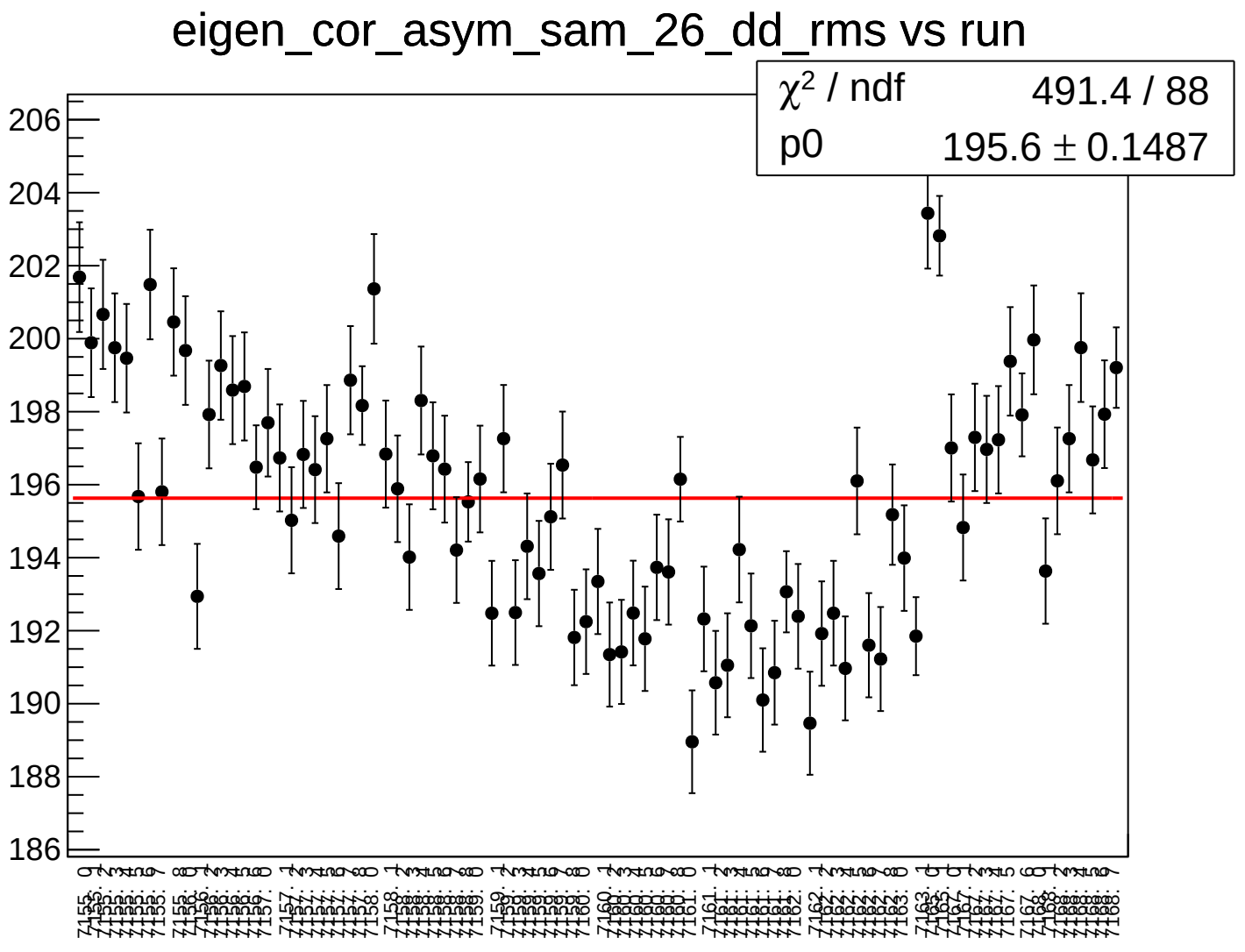

cor_asym_sam_26_dd_rms vs run
χ² / ndf 491.4 / 88
p0 195.6 ± 0.1487
206
204
202
200
198
196
194
192
190
188
186

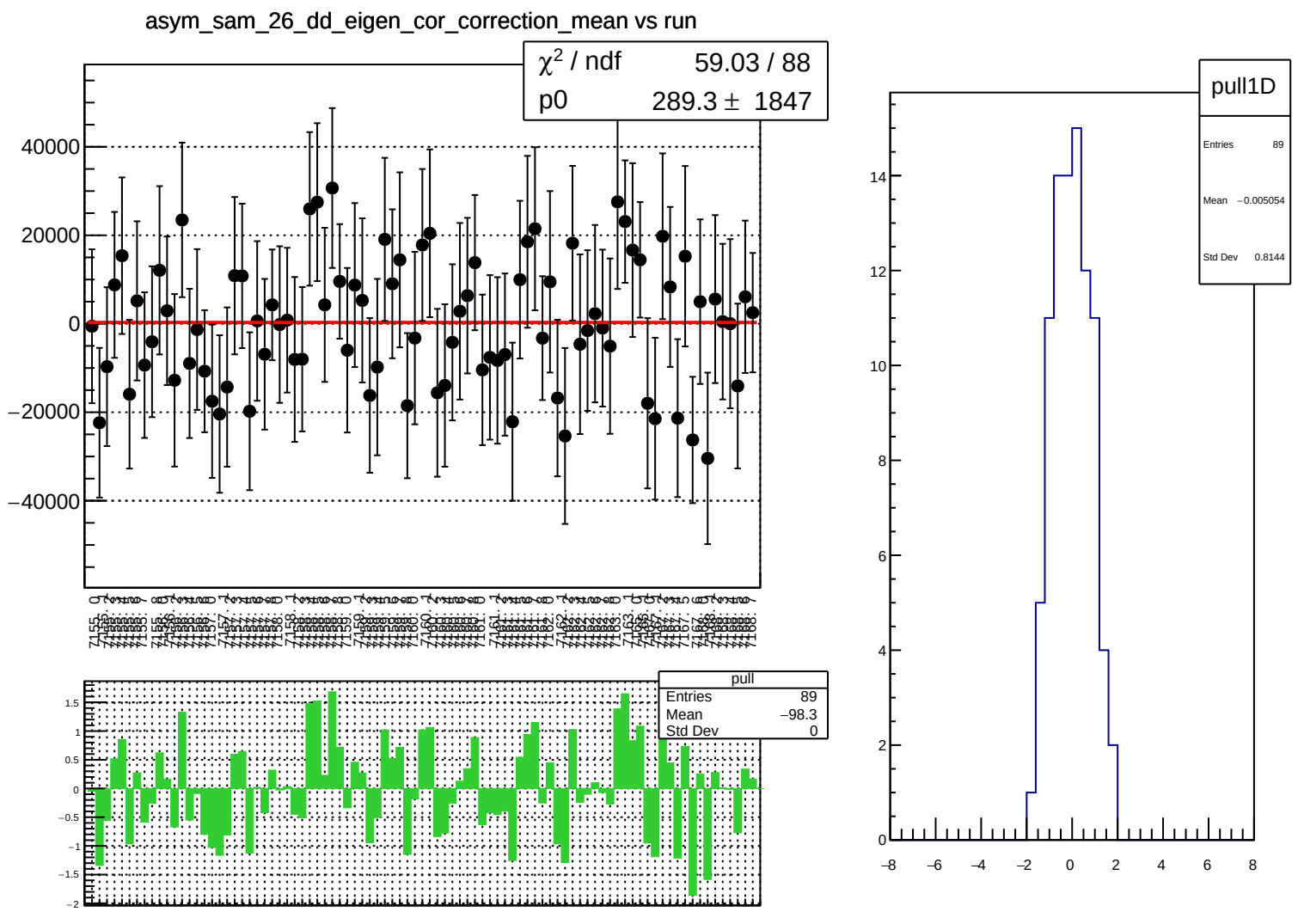

asym_sam_26_dd_cor_correction_mean vs run
χ² / ndf 59.03 / 88
p0 289.3 ± 1847
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −98.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.005054
Std Dev 0.8144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

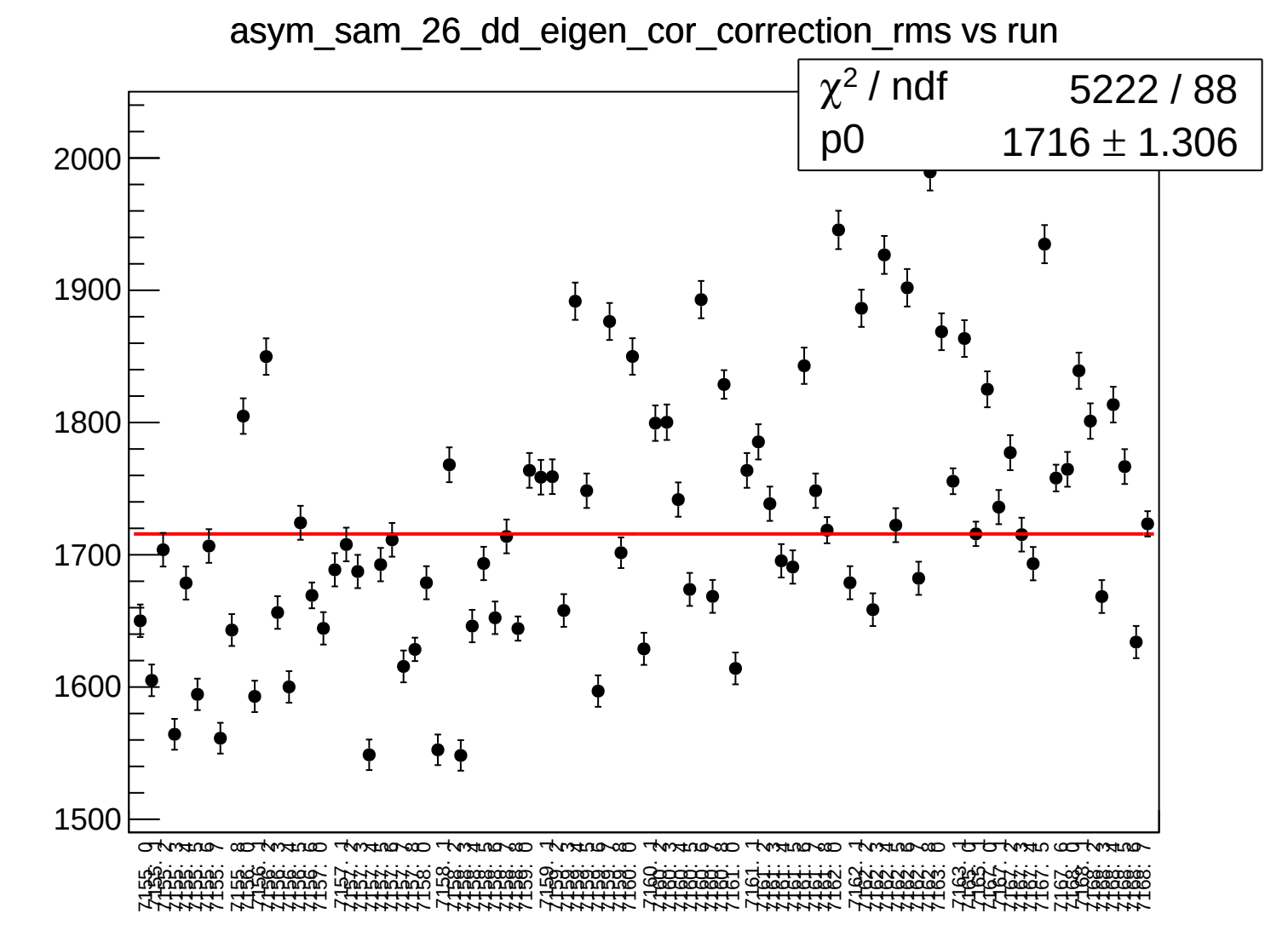

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 5222 / 88
p0 1716 ± 1.306
2000
1900
1800
1700
1600
1500

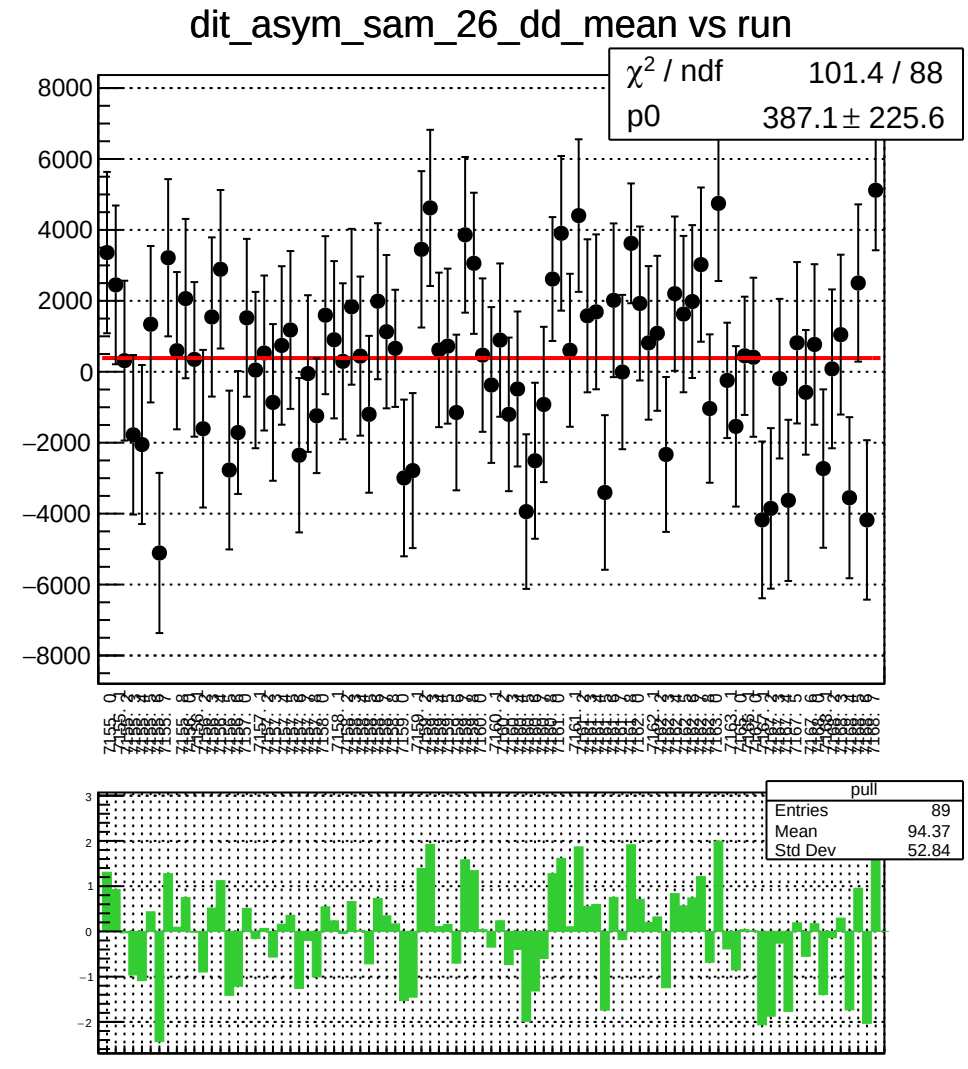

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 105.7 / 88
p0 434.6 ± 210.4
pull
Entries 89
Mean 91.97
Std Dev 0

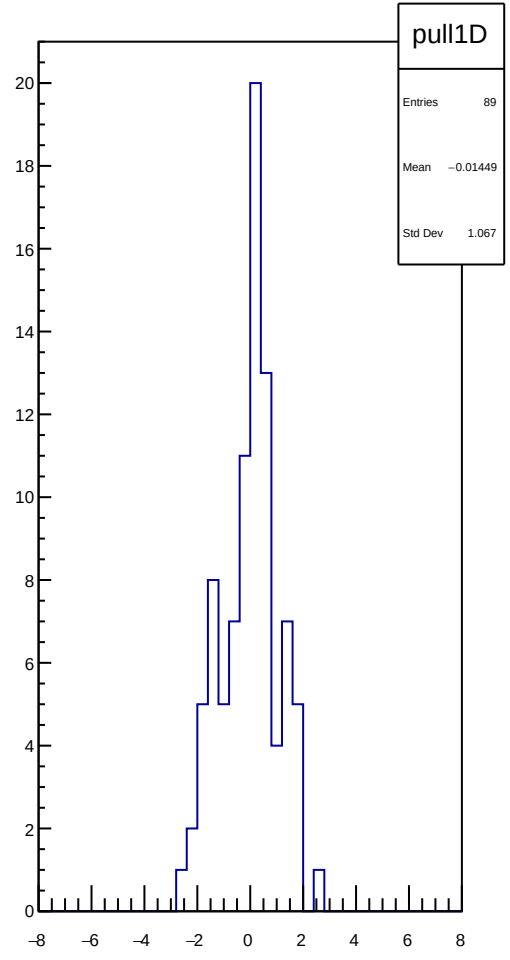

pull1D
Entries 89
Mean −0.008595
Std Dev 1.09

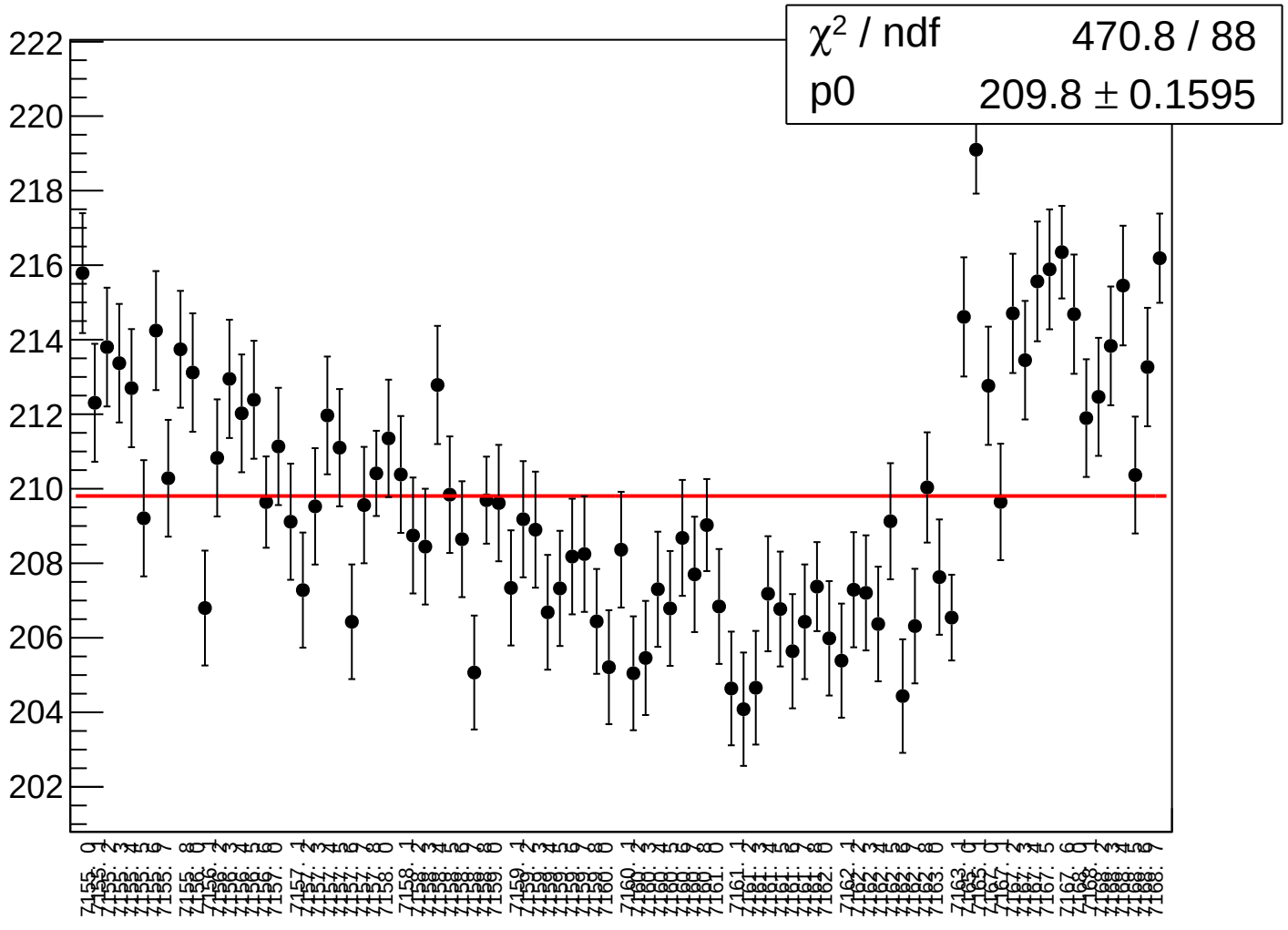

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 491.4 / 88
p0 195.6 ± 0.1487
206
204
202
200
198
196
194
192
190
188
186

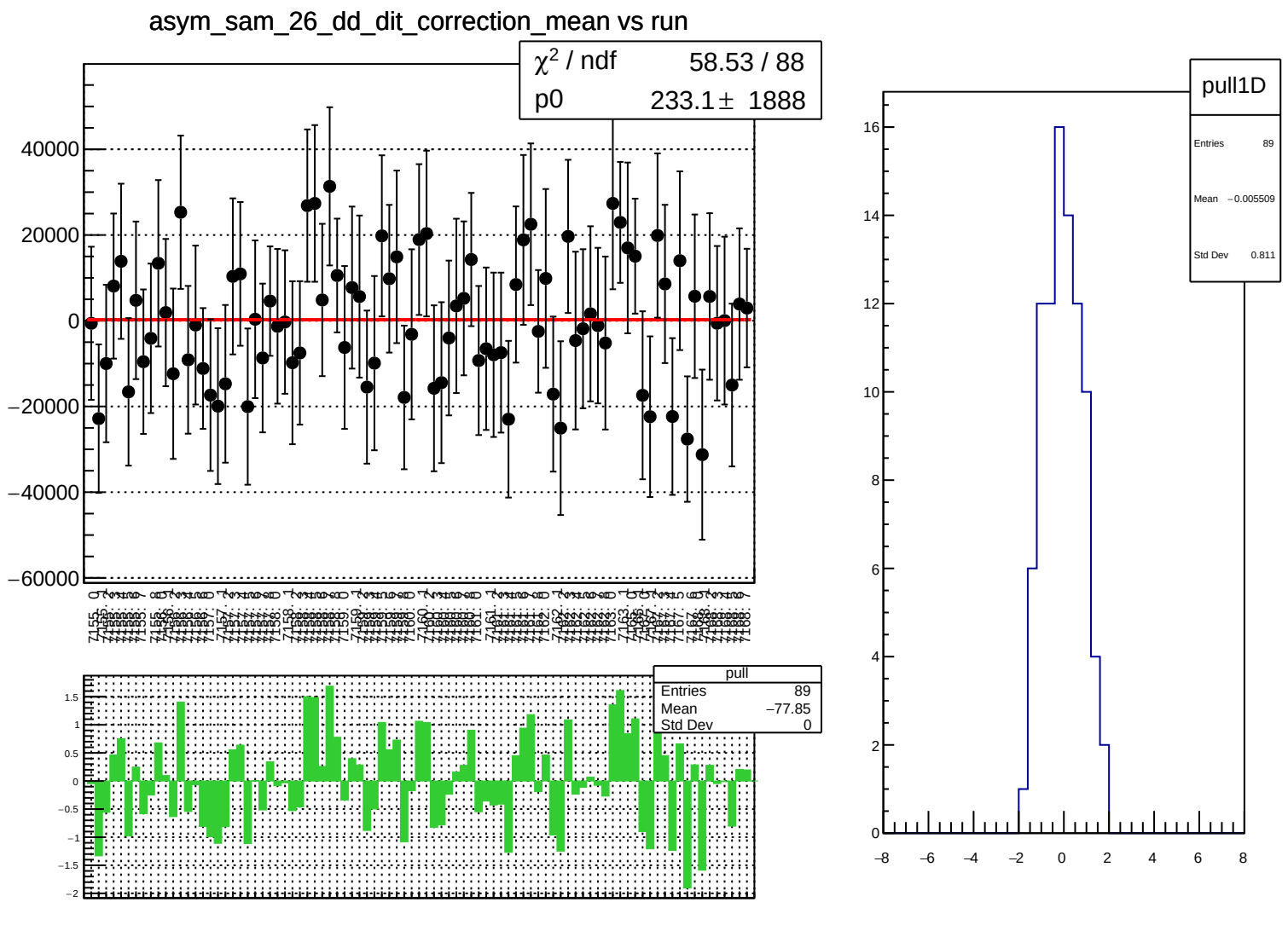

asym_sam_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 59.03 / 88
p0 289.3 ± 1847
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −98.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.005054
Std Dev 0.8144
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

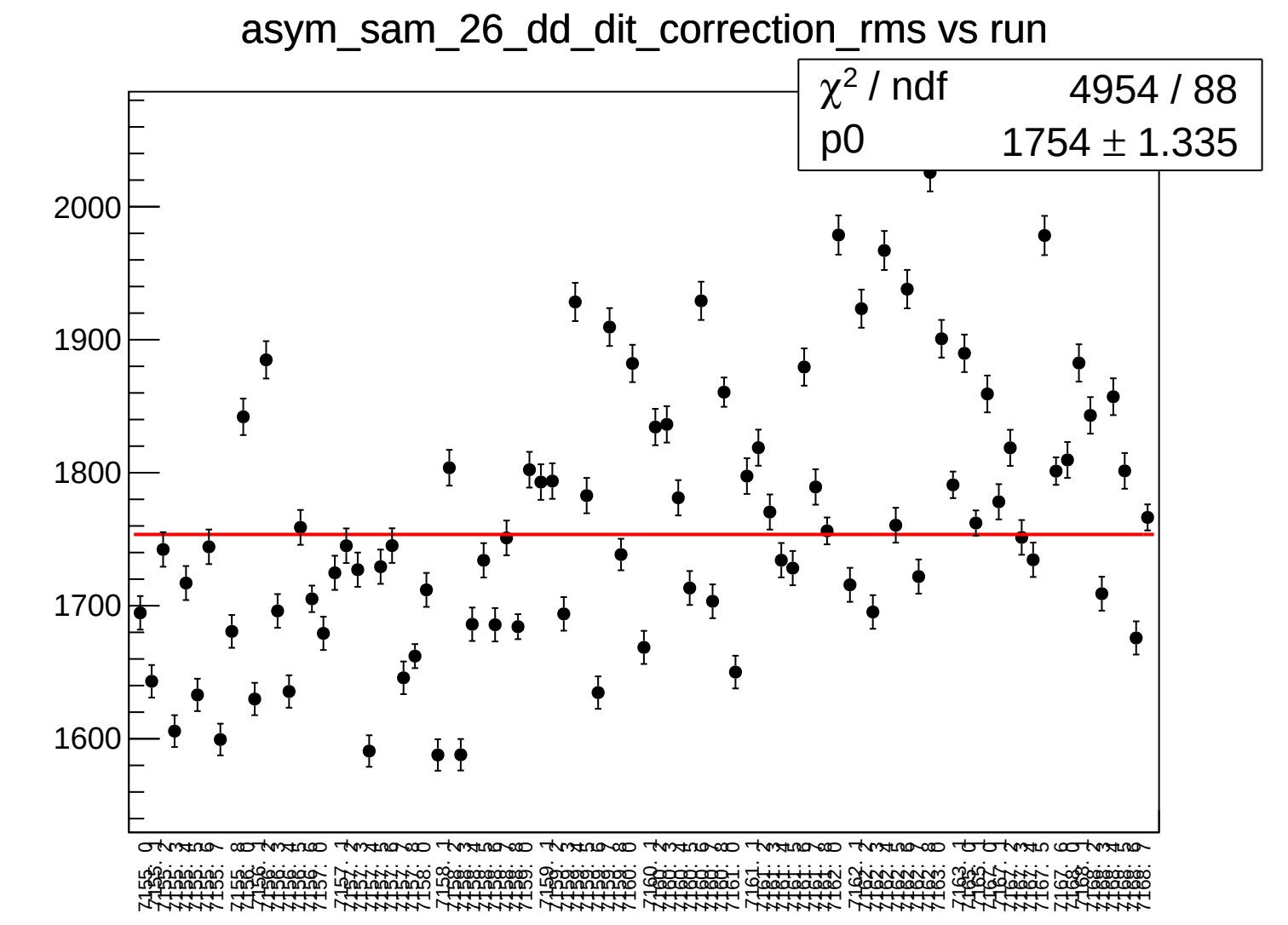

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 5222 / 88
p0 1716 ± 1.306
2000
1900
1800
1700
1600
1500

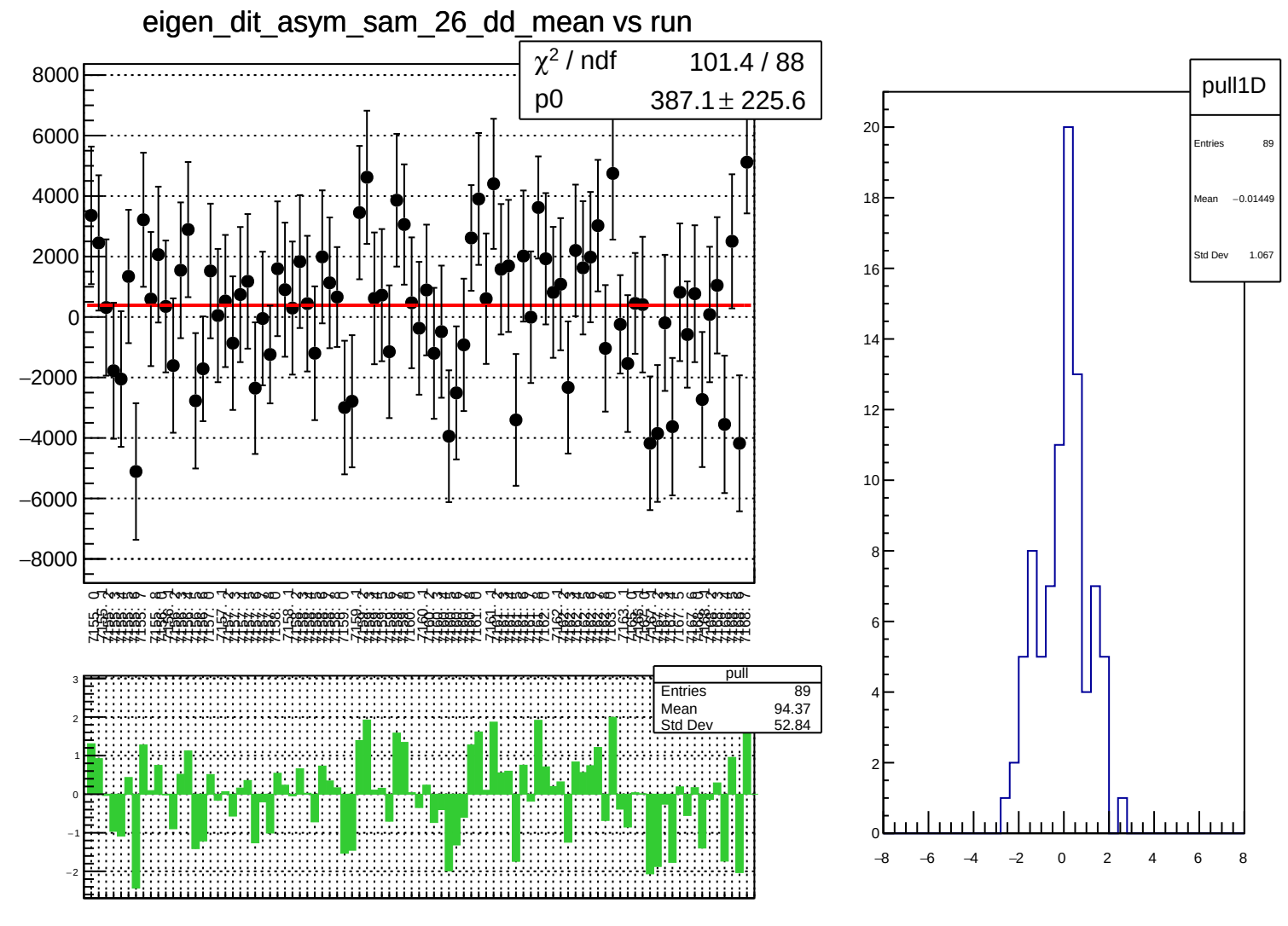

dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.4 / 88
p0 387.1 ± 225.6
pull
Entries 89
Mean 94.37
Std Dev 52.84

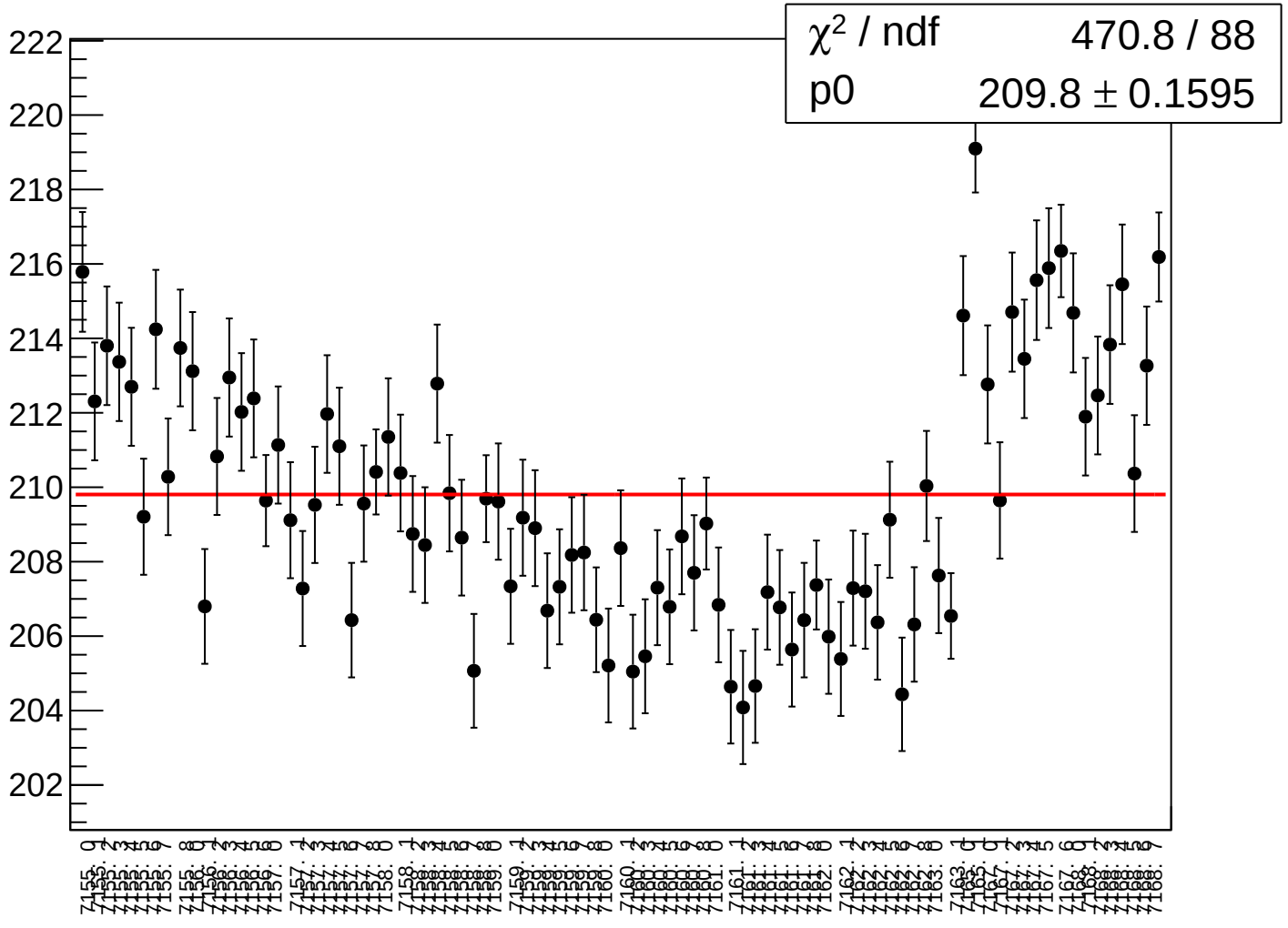

pull1D
Entries 89
Mean −0.01449
Std Dev 1.067

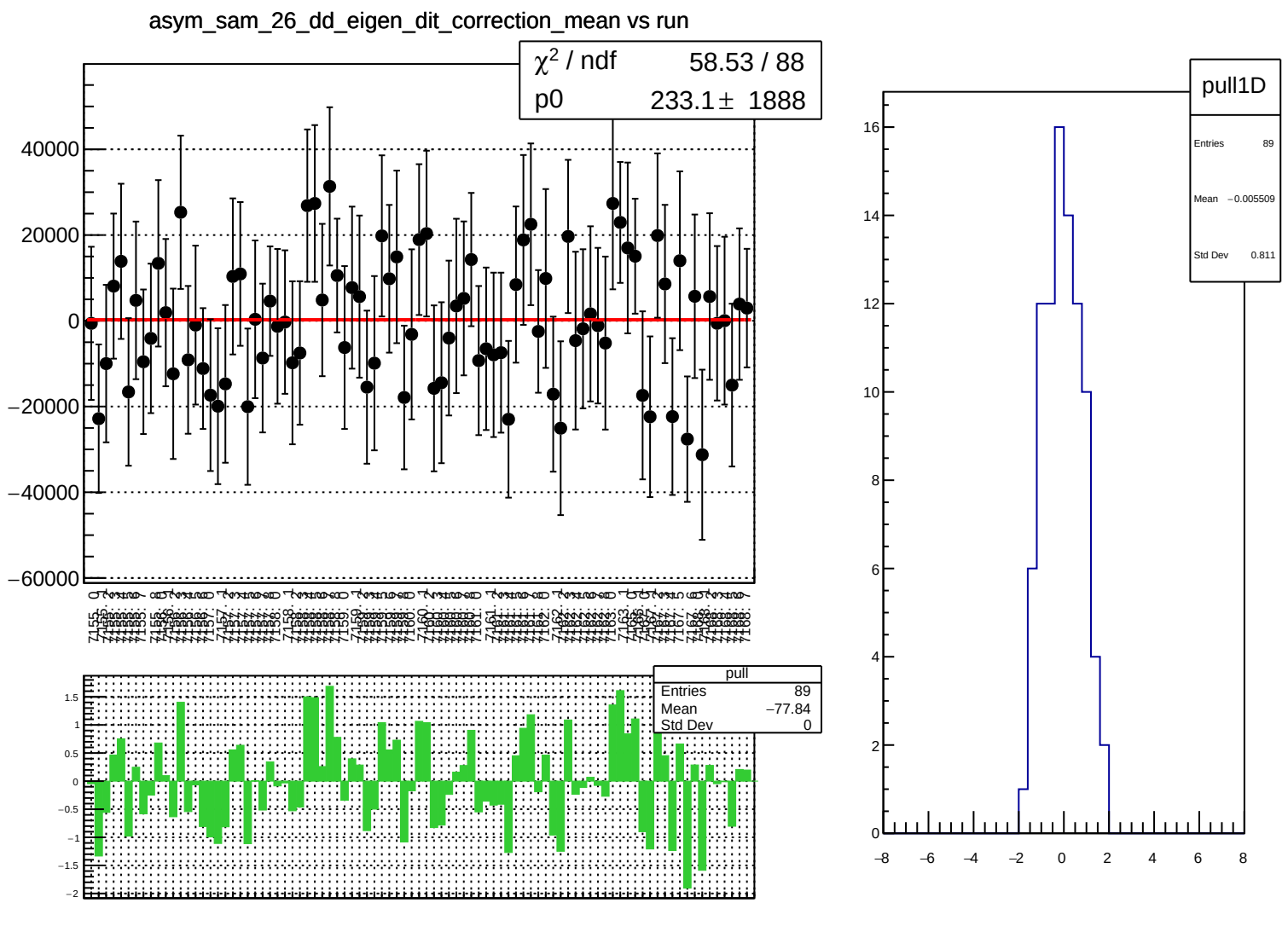

dit_asym_sam_26_dd_rms vs run
χ² / ndf 470.8 / 88
p0 209.8 ± 0.1595
222
220
218
216
214
212
210
208
206
204
202

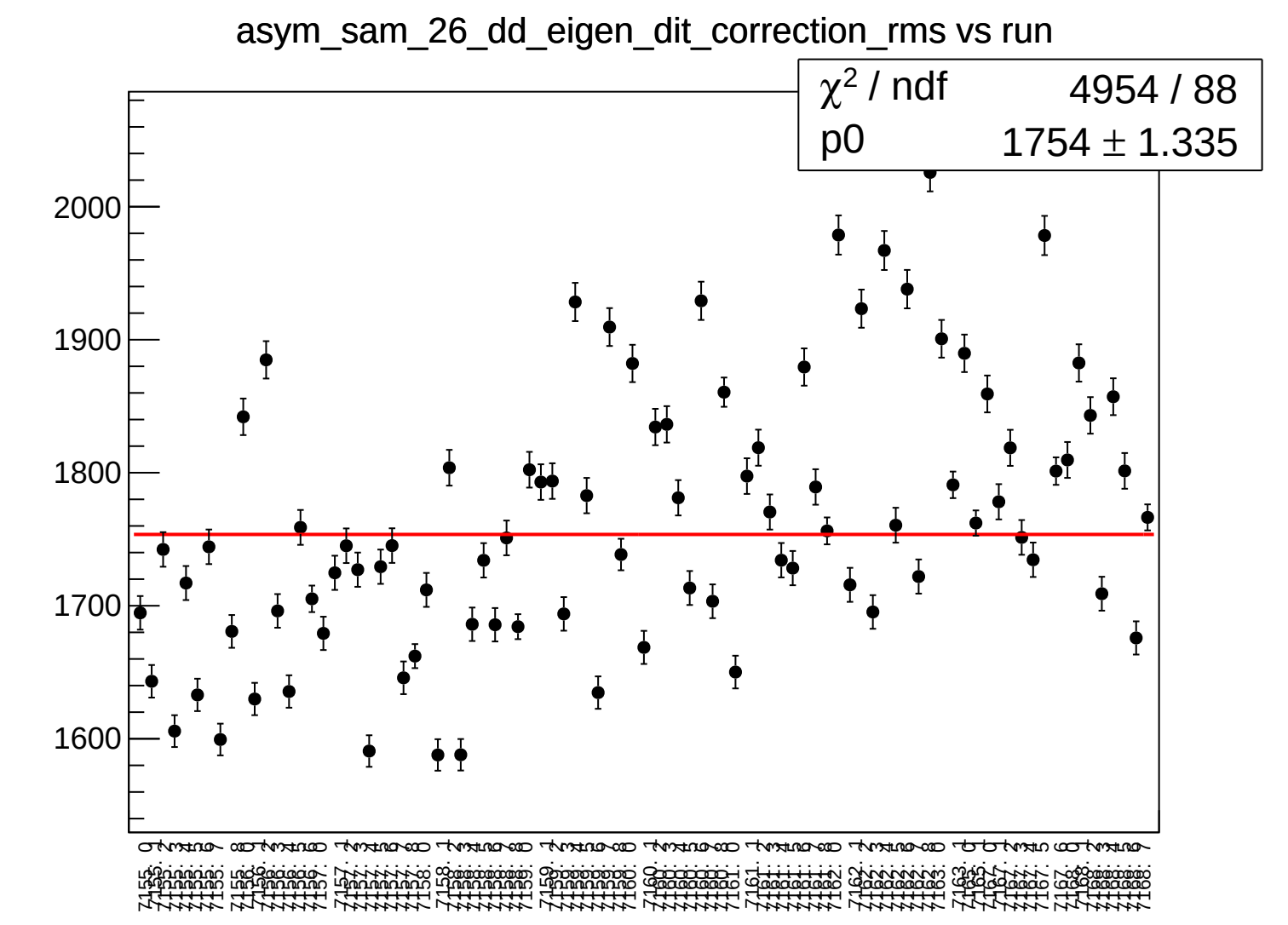

asym_sam_26_dd_dit_correction_mean vs run
χ² / ndf 58.53 / 88
p0 233.1 ± 1888
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −77.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.005509
Std Dev 0.811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

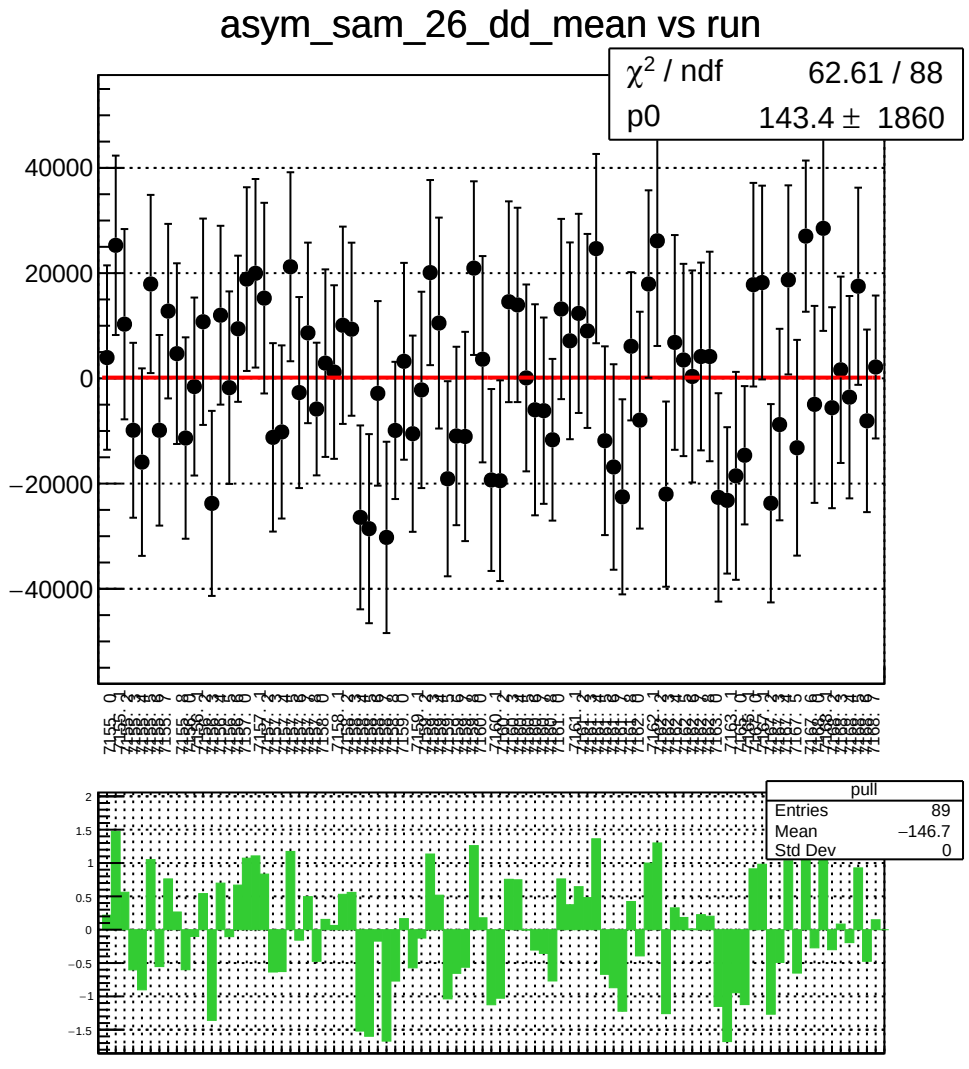

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 4954 / 88
p0 1754 ± 1.335
2000
1900
1800
1700
1600

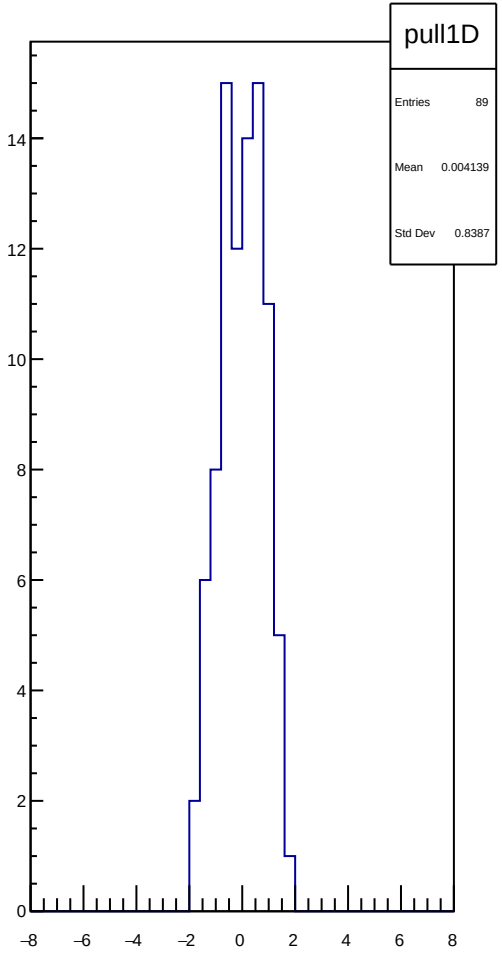

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 101.4 / 88
p0 387.1 ± 225.6
pull
Entries 89
Mean 94.37
Std Dev 52.84
pull1D
Entries 89
Mean −0.01449
Std Dev 1.067

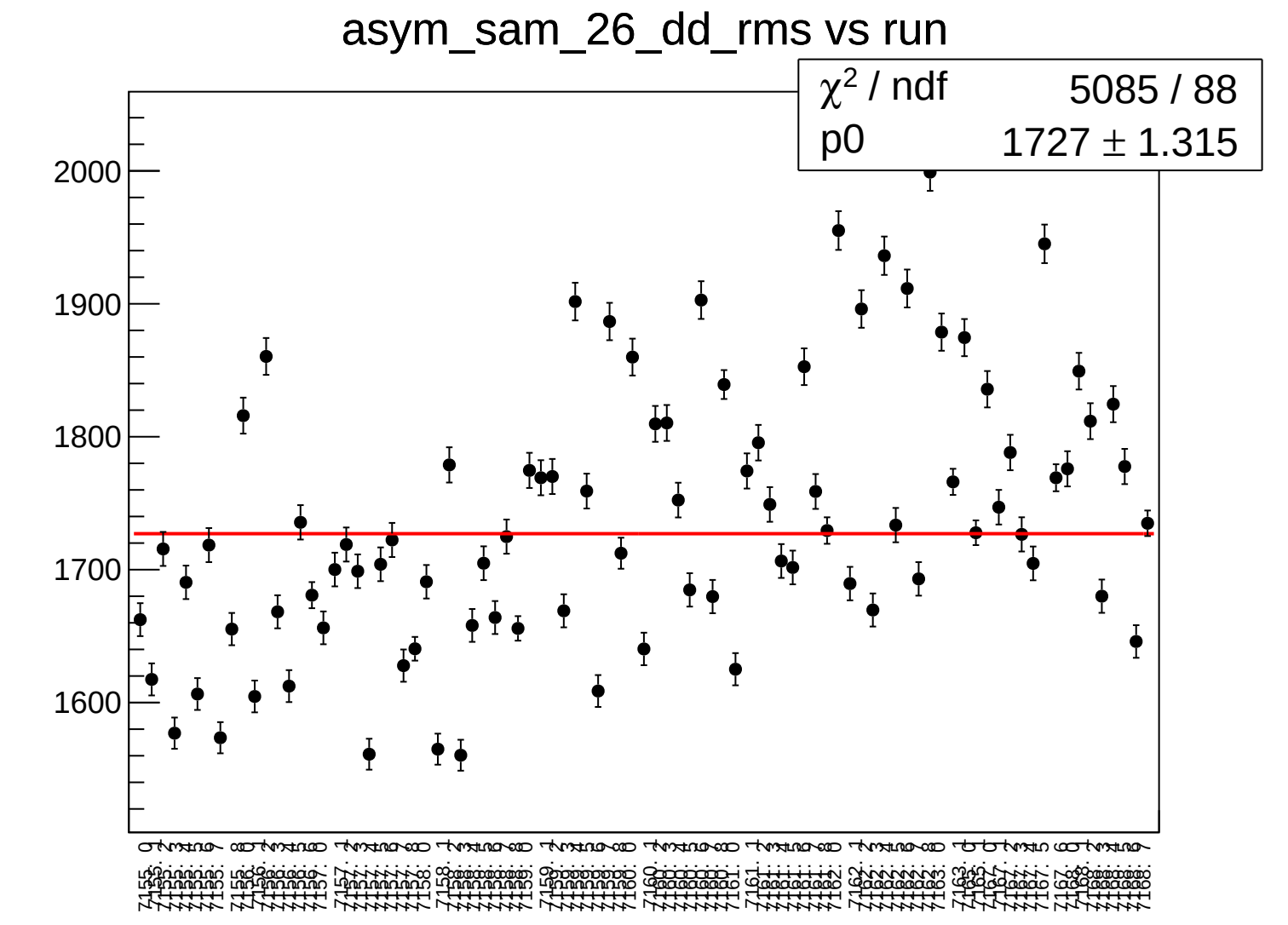

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 470.8 / 88
p0 209.8 ± 0.1595
222
220
218
216
214
212
210
208
206
204
202

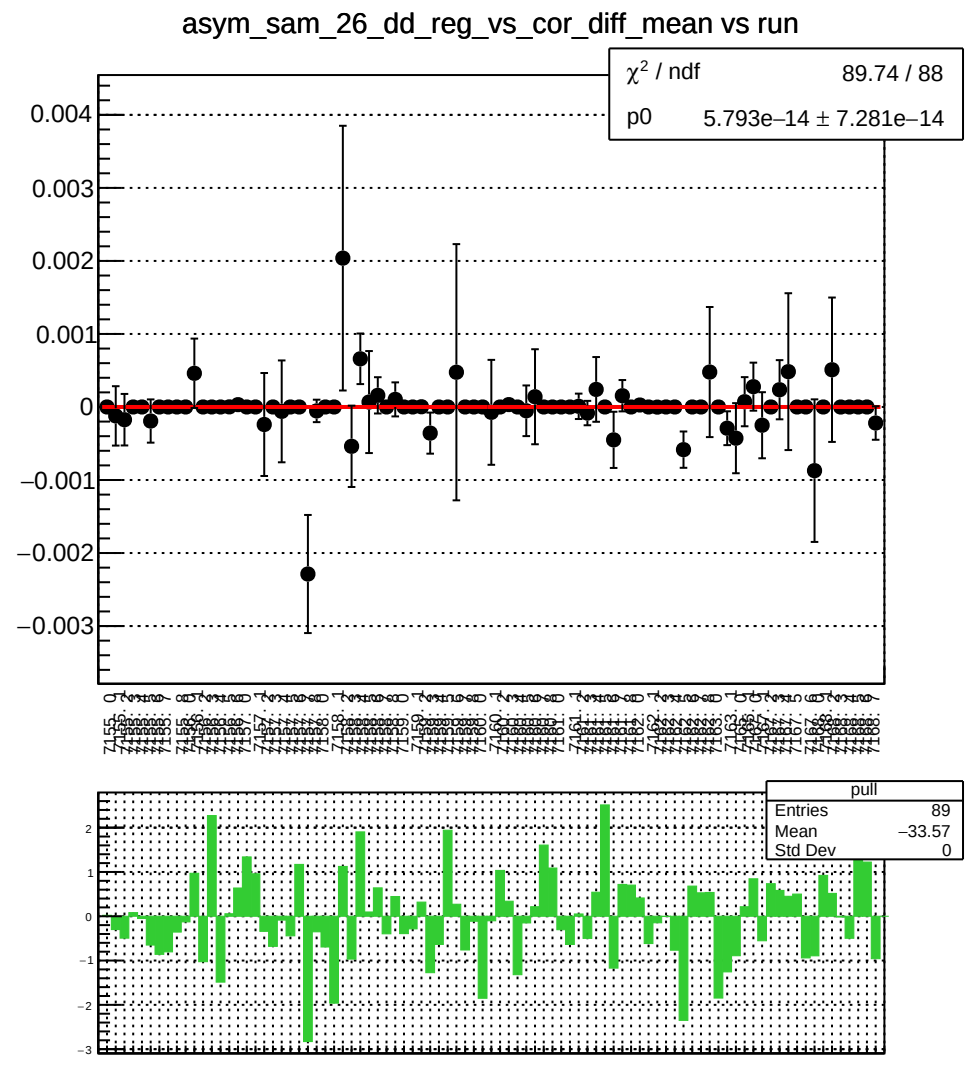

asym_sam_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.53 / 88
p0 233.1 ± 1888
40000
20000
0
−20000
−40000
−60000
pull
Entries 89
Mean −77.84
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.005509
Std Dev 0.811
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

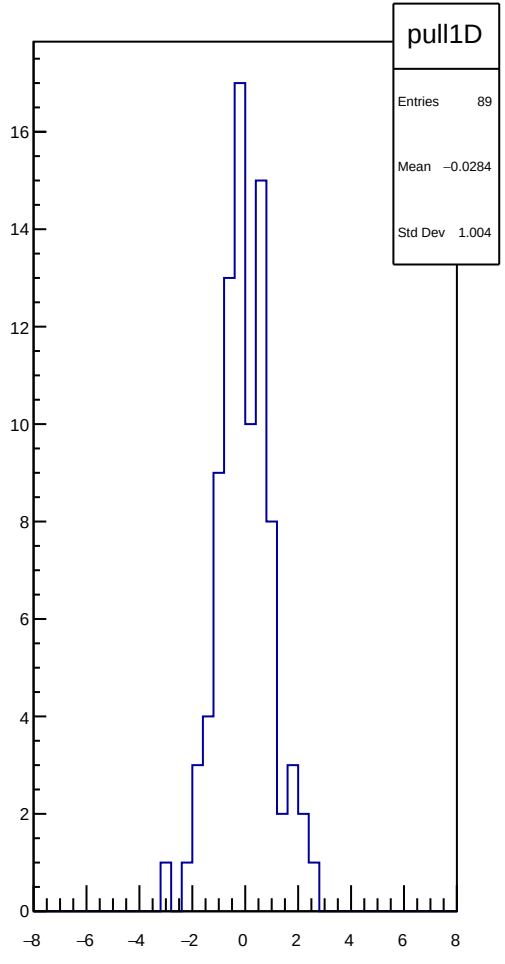

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4954 / 88
p0 1754 ± 1.335
2000
1900
1800
1700
1600

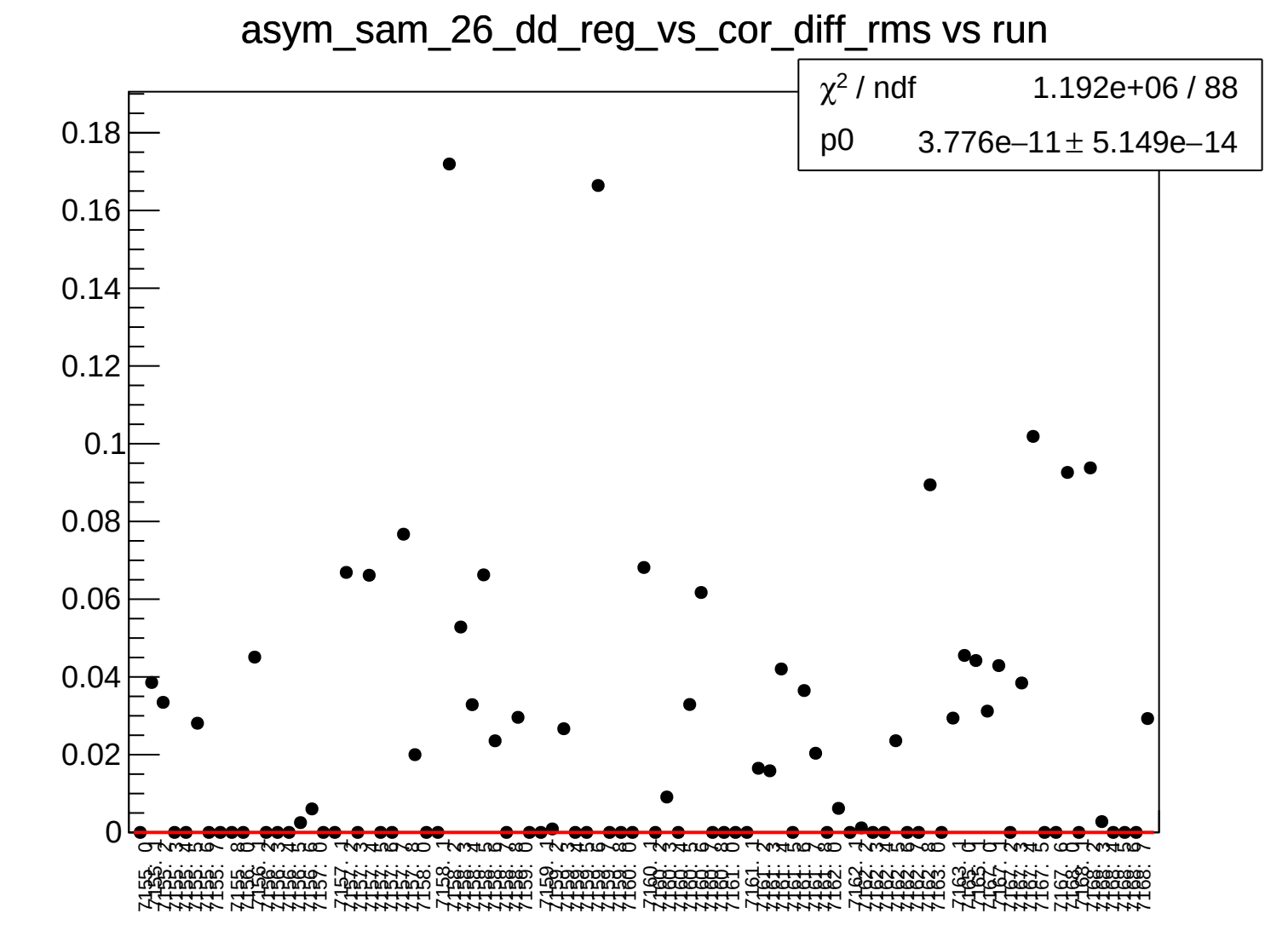

asym_sam_26_dd_mean vs run
χ² / ndf 62.61 / 88
p0 143.4 ± 1860
40000
20000
0
−20000
−40000
pull
Entries 89
Mean −146.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

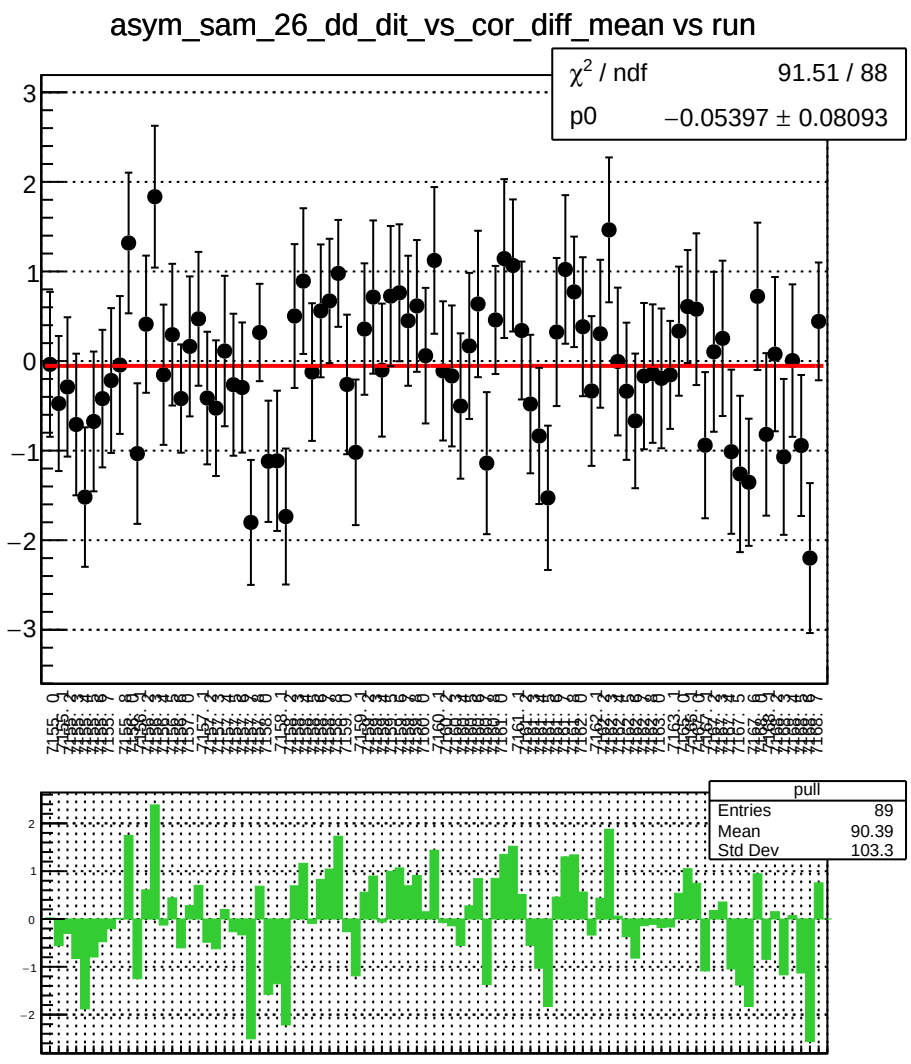

pull1D
Entries 89
Mean 0.004139
Std Dev 0.8387
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

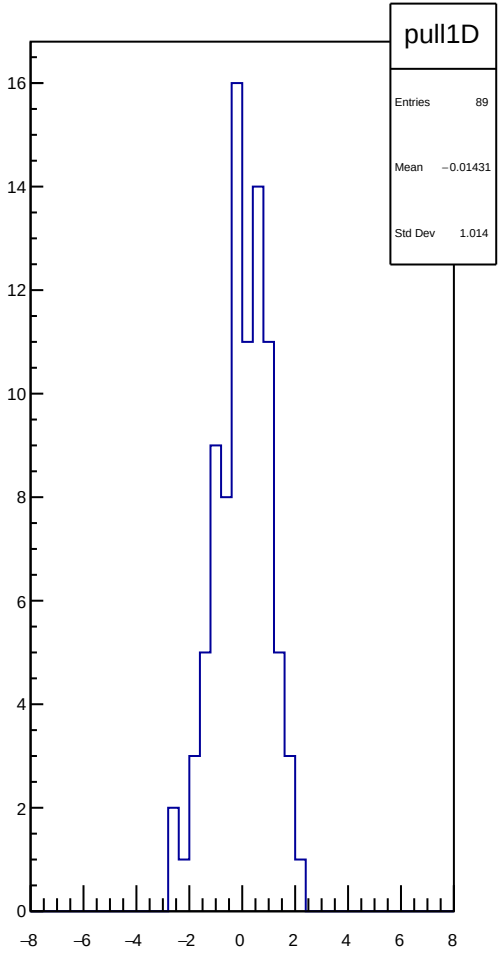

asym_sam_26_dd_rms vs run
χ² / ndf 5085 / 88
p0 1727 ± 1.315
2000
1900
1800
1700
1600

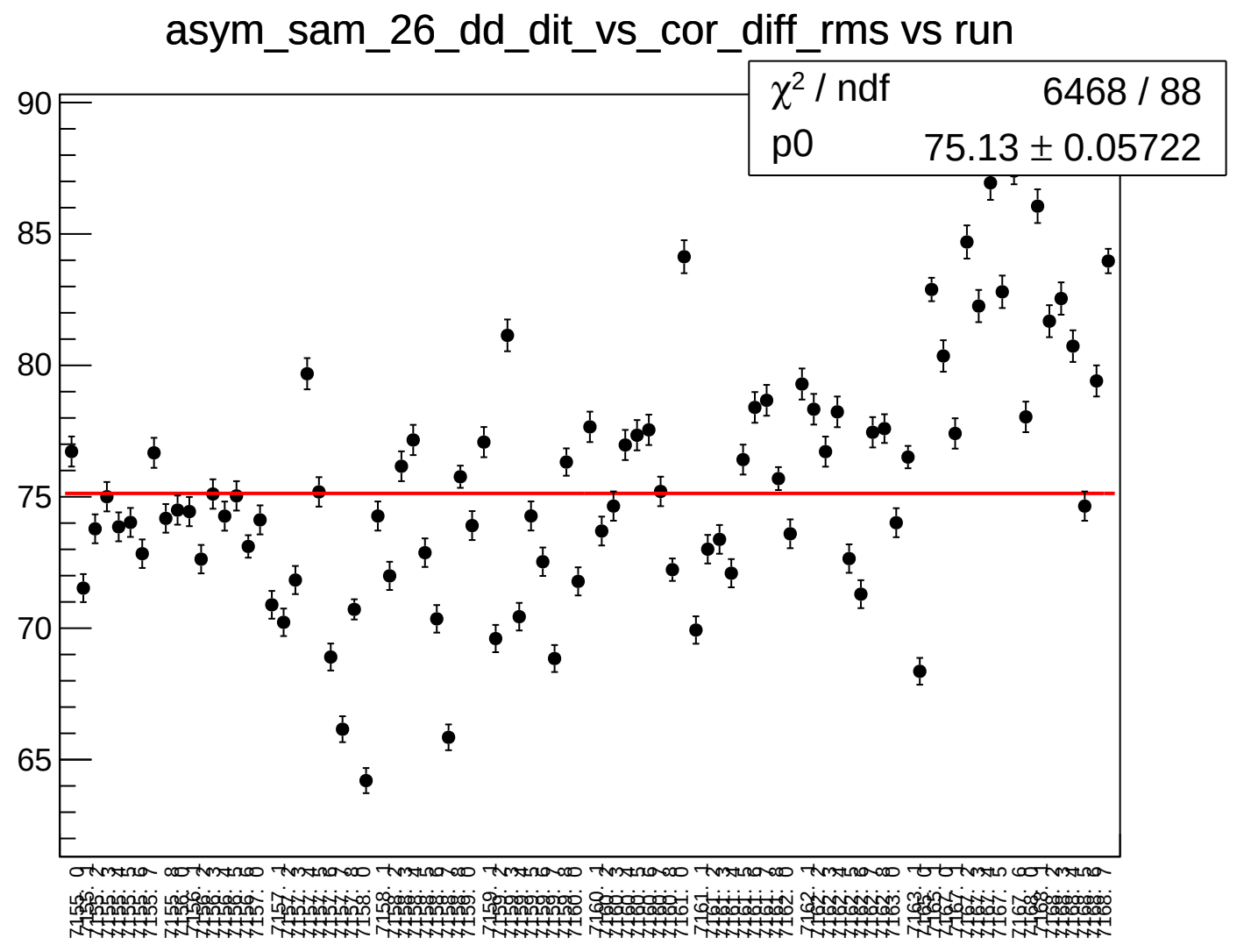

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 88
p0 5.793e−14 ± 7.281e−14
0.004
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 89
Mean −33.57
Std Dev 0
2
1
0
−1
−2
−3

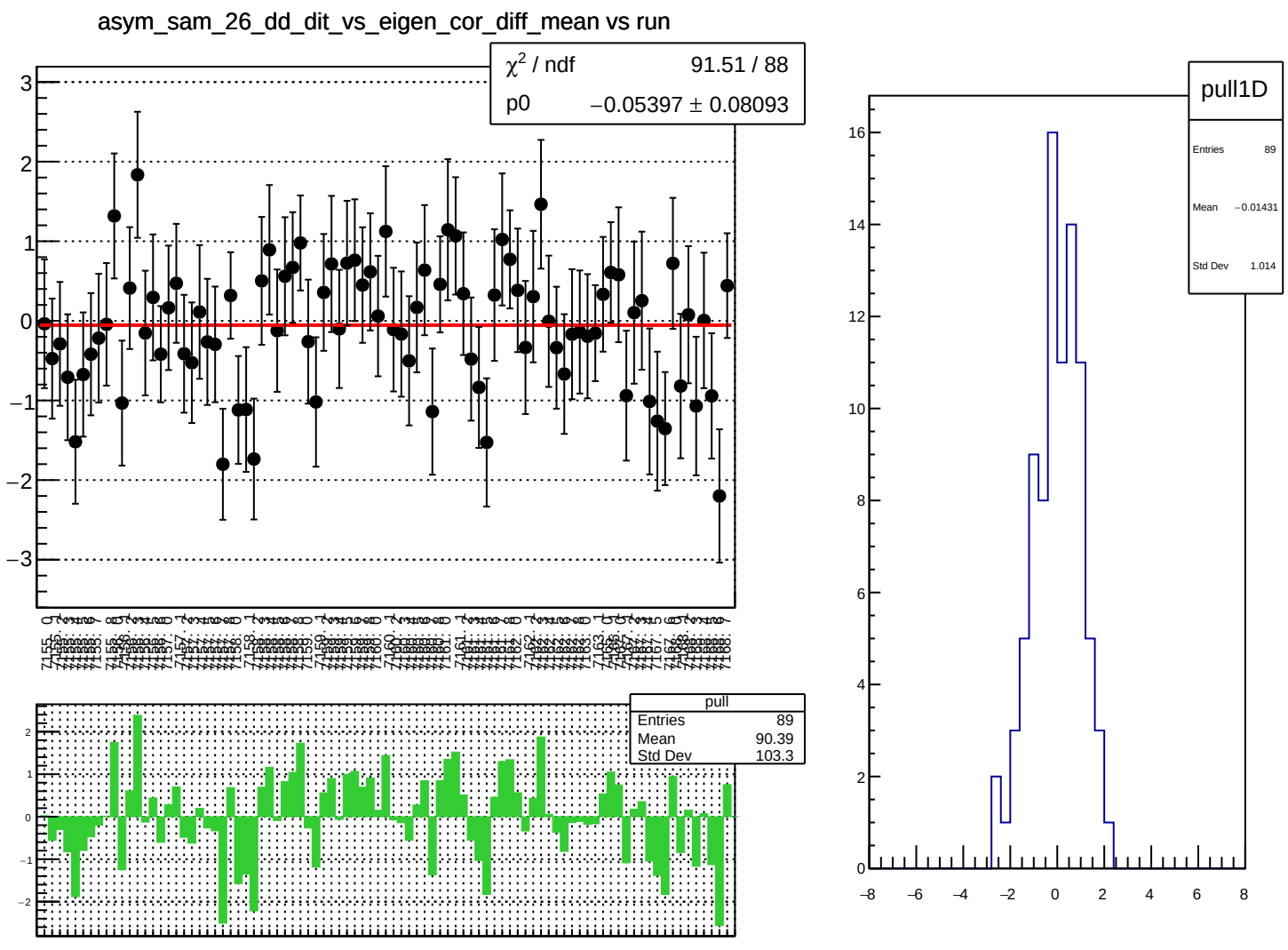

pull1D
Entries 89
Mean −0.0284
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

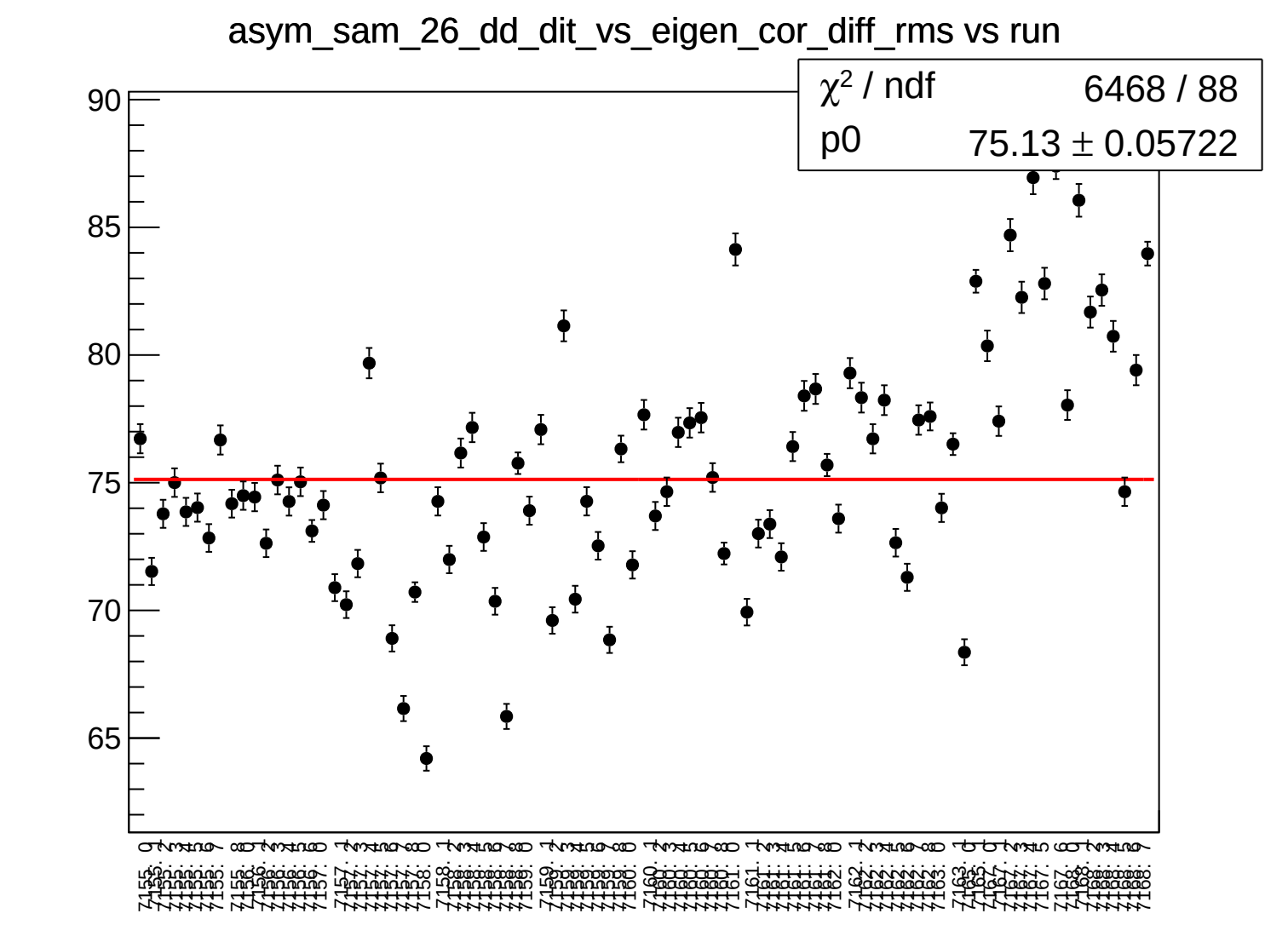

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.192e+06 / 88
p0 3.776e−11 ± 5.149e−14
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

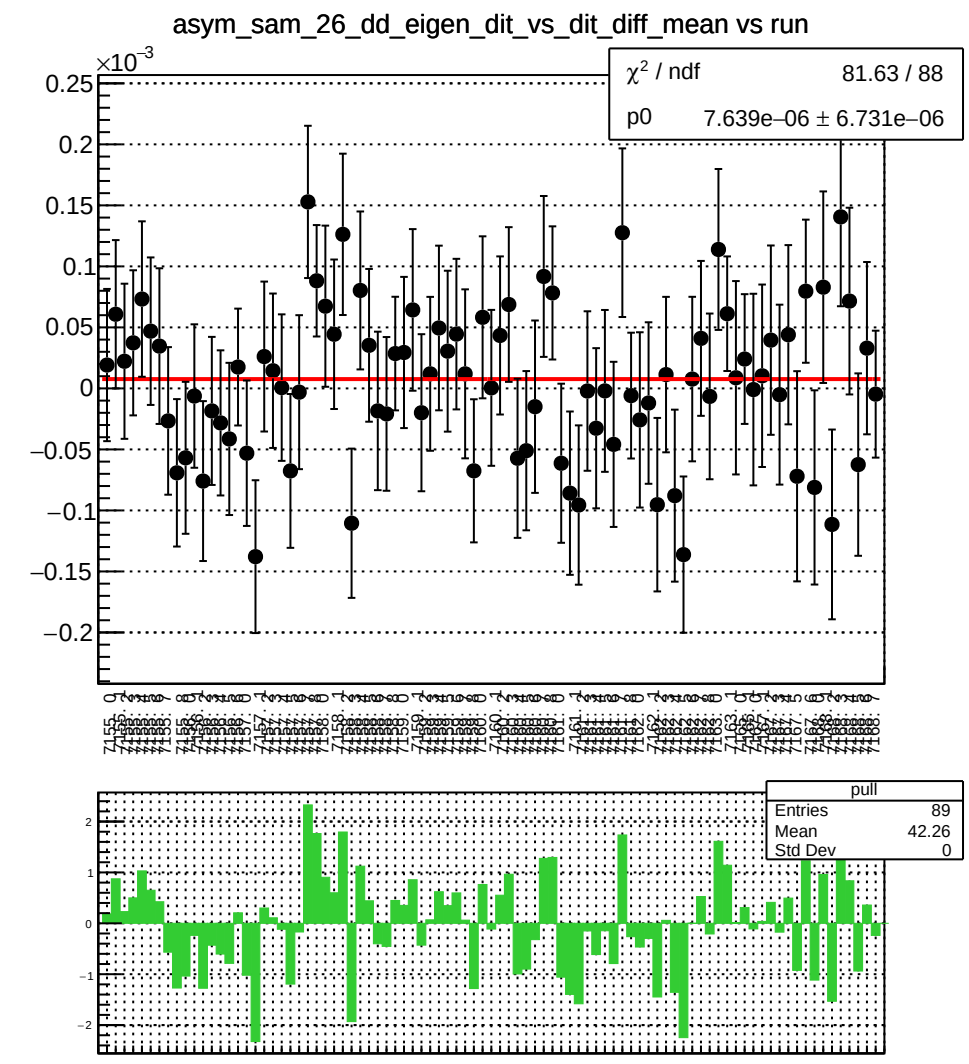

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −0.05397 ± 0.08093
pull
Entries 89
Mean 90.39
Std Dev 103.3

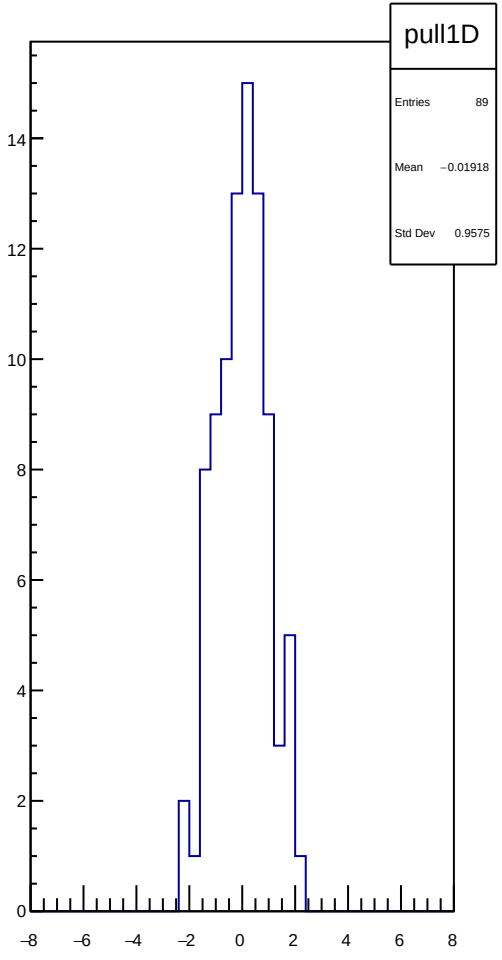

pull1D
Entries 89
Mean −0.01431
Std Dev 1.014

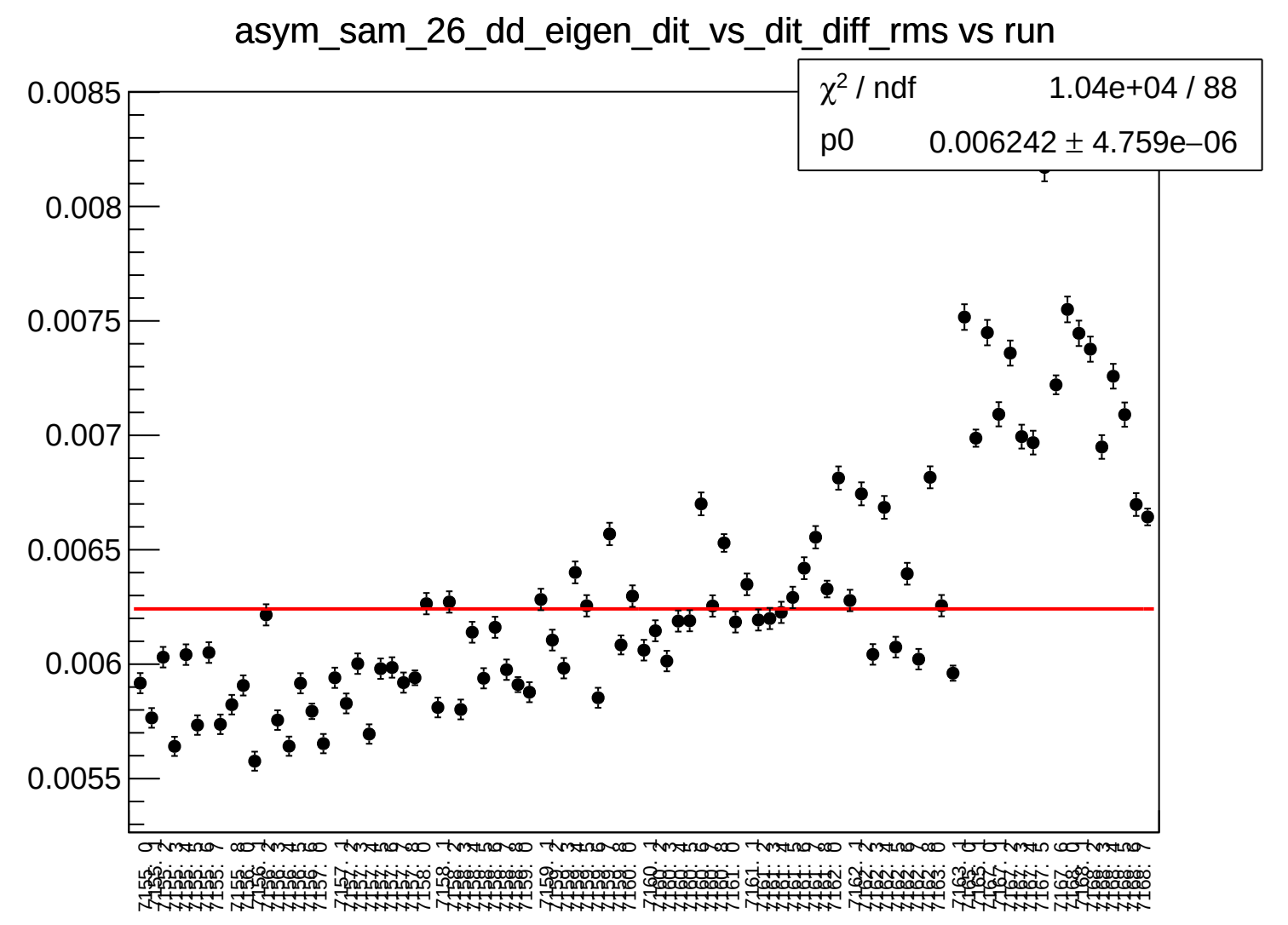

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6468 / 88
p0 75.13 ± 0.05722
90
85
80
75
70
65

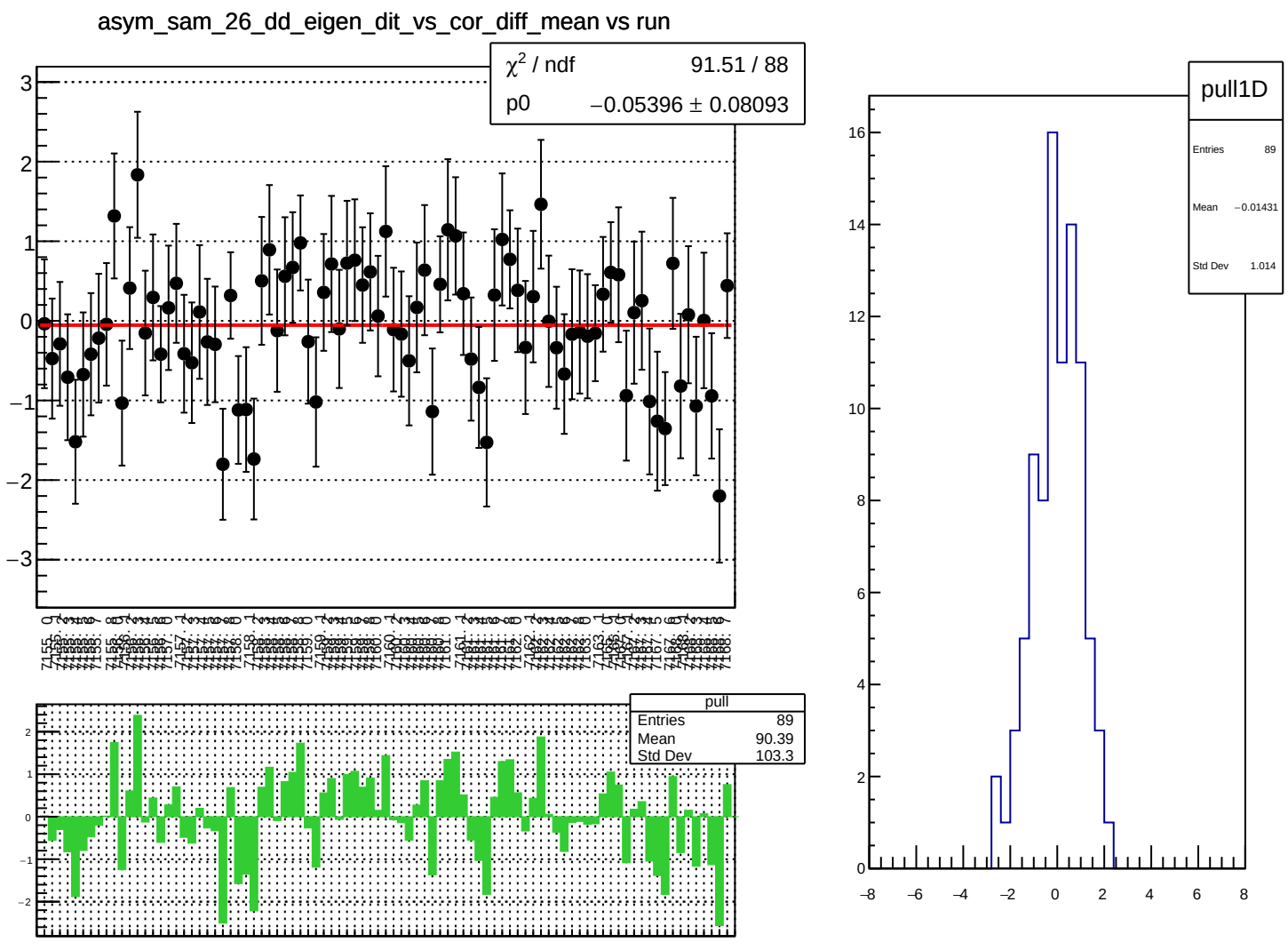

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −0.05397 ± 0.08093
pull
Entries 89
Mean 90.39
Std Dev 103.3
pull1D
Entries 89
Mean −0.01431
Std Dev 1.014

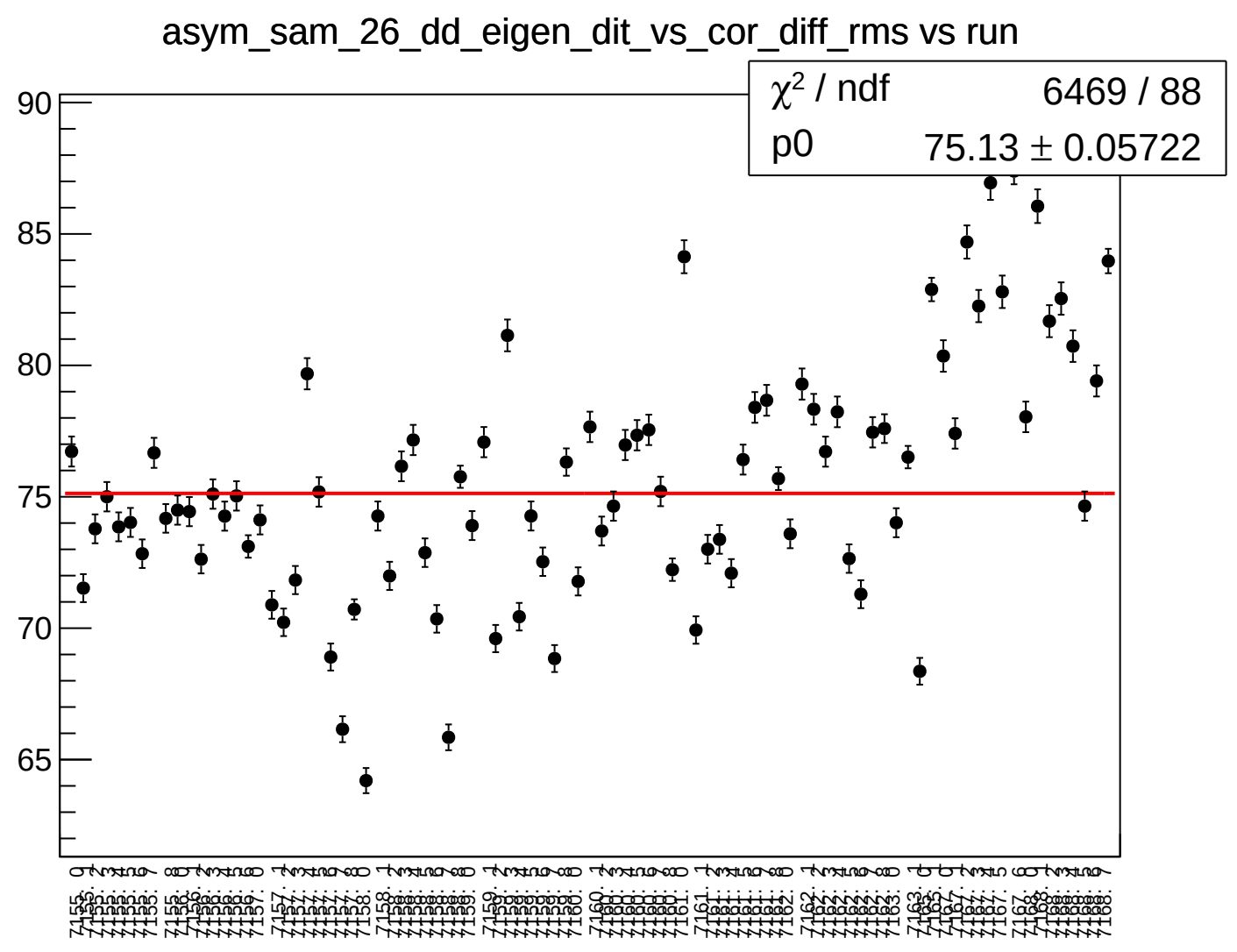

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6468 / 88
p0 75.13 ± 0.05722
90
85
80
75
70
65

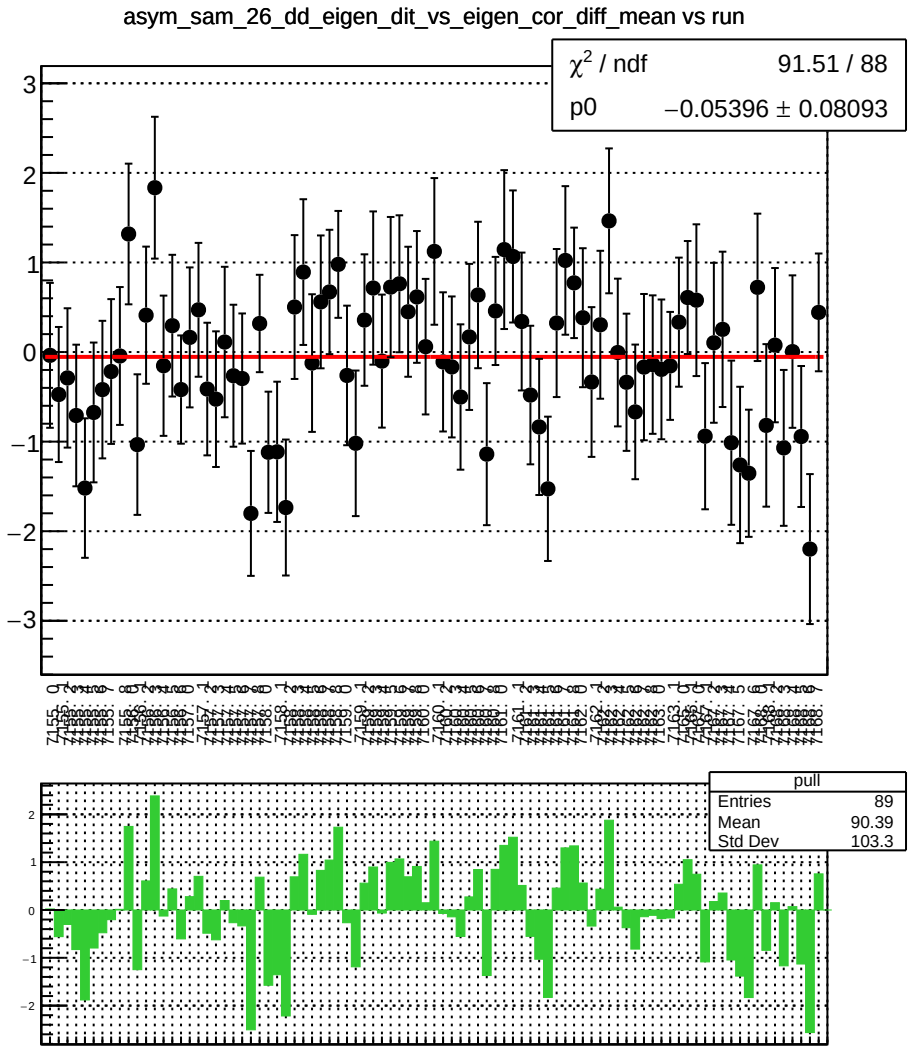

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.63 / 88
p0 7.639e−06 ± 6.731e−06
pull
Entries 89
Mean 42.26
Std Dev 0

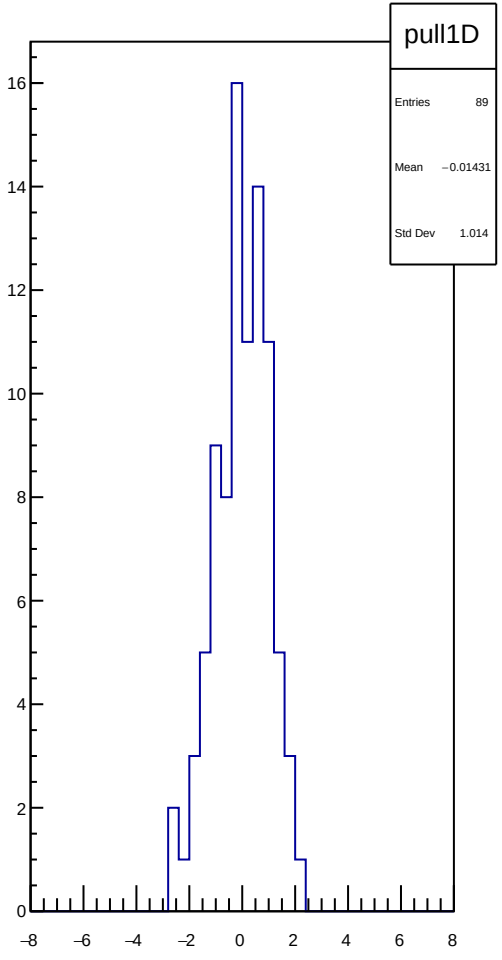

pull1D
Entries 89
Mean −0.01918
Std Dev 0.9575

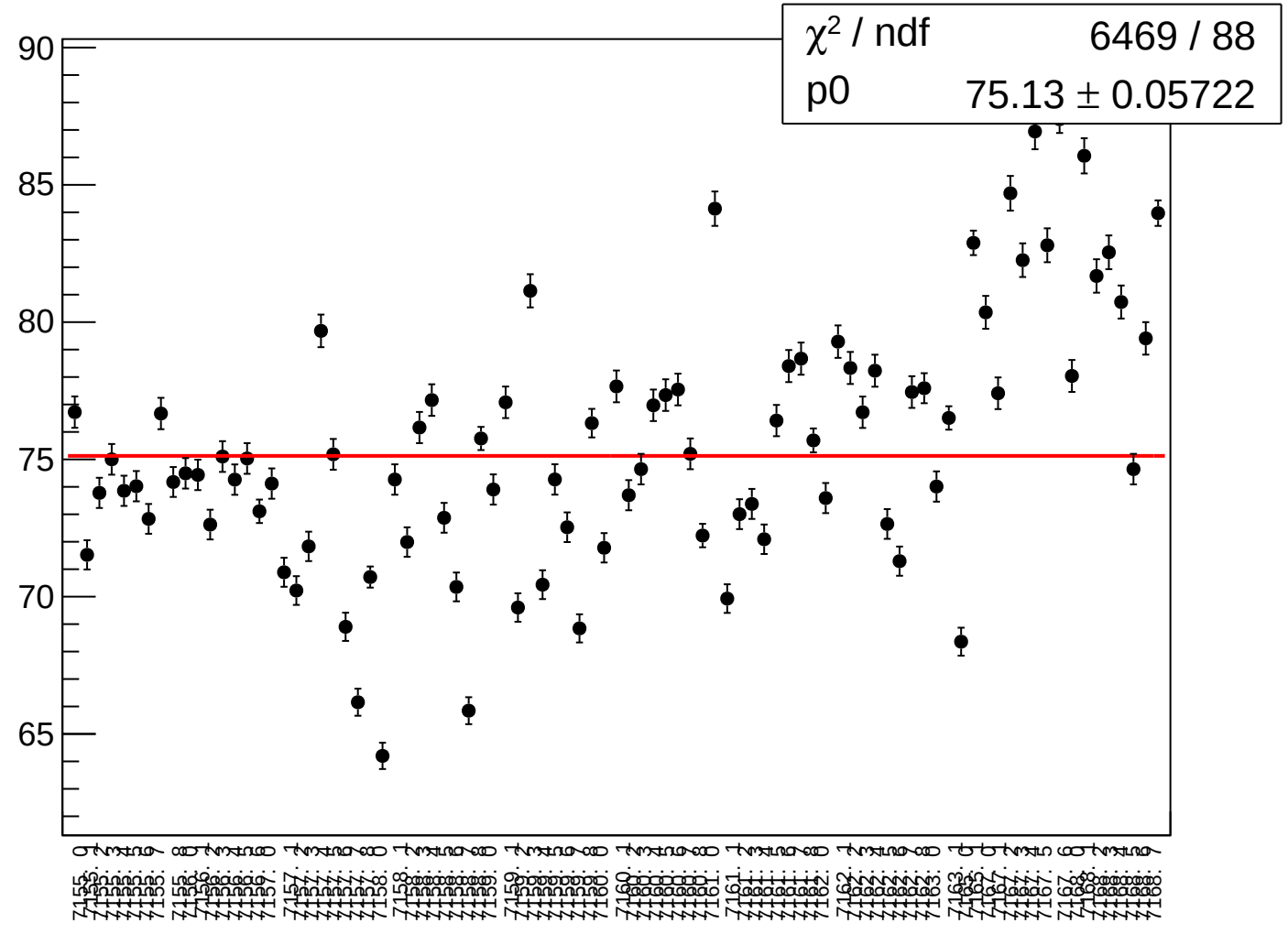

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.04e+04 / 88
p0 0.006242 ± 4.759e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

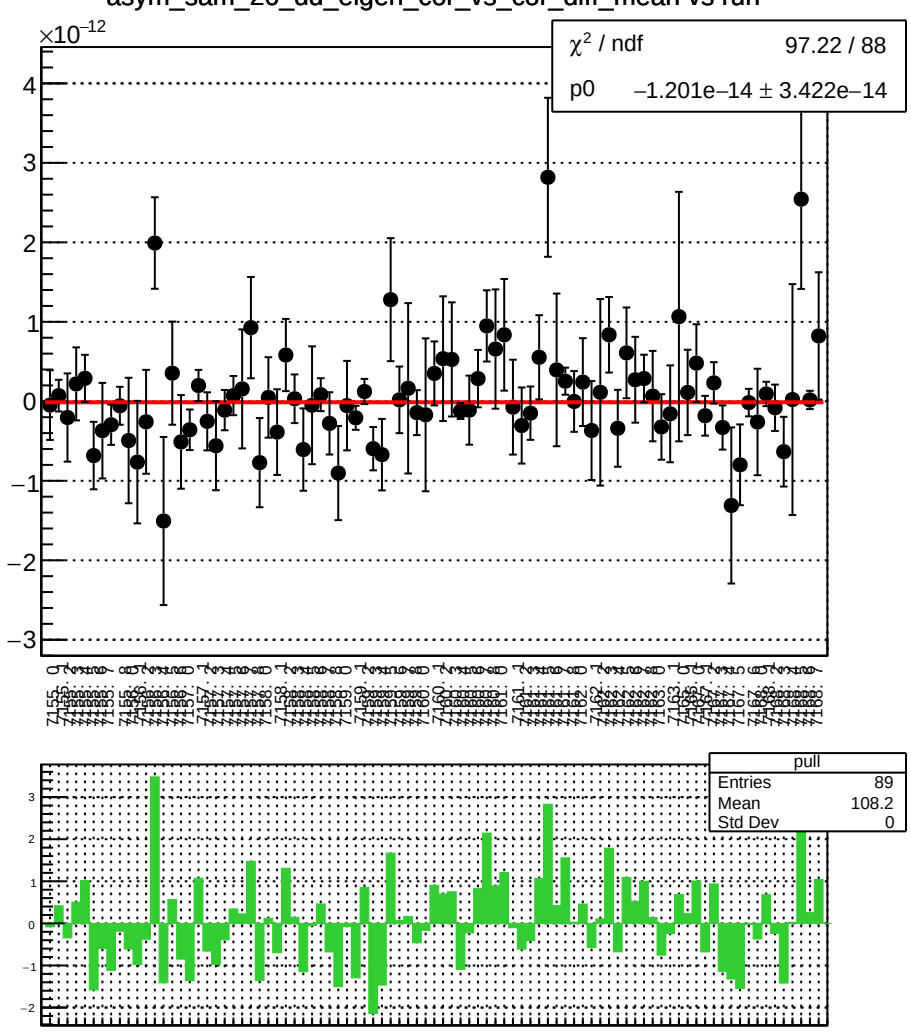

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −0.05396 ± 0.08093
pull
Entries 89
Mean 90.39
Std Dev 103.3
pull1D
Entries 89
Mean −0.01431
Std Dev 1.014

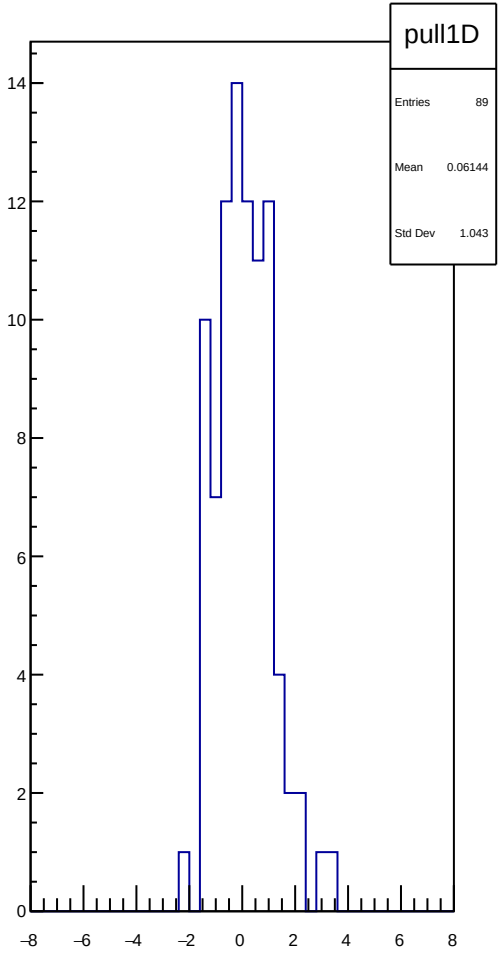

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6469 / 88
p0 75.13 ± 0.05722
90
85
80
75
70
65

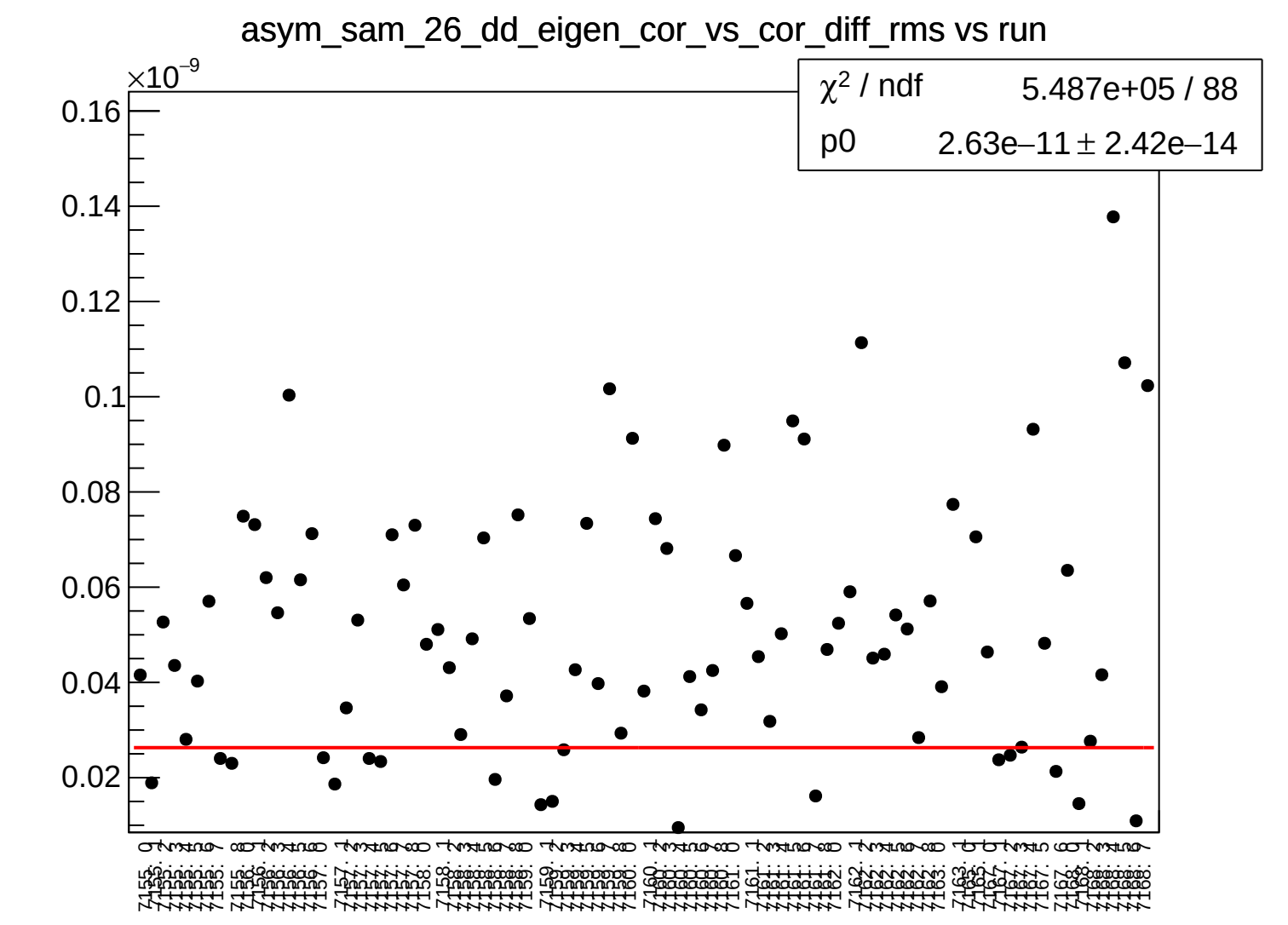

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.51 / 88
p0 −0.05396 ± 0.08093
pull
Entries 89
Mean 90.39
Std Dev 103.3

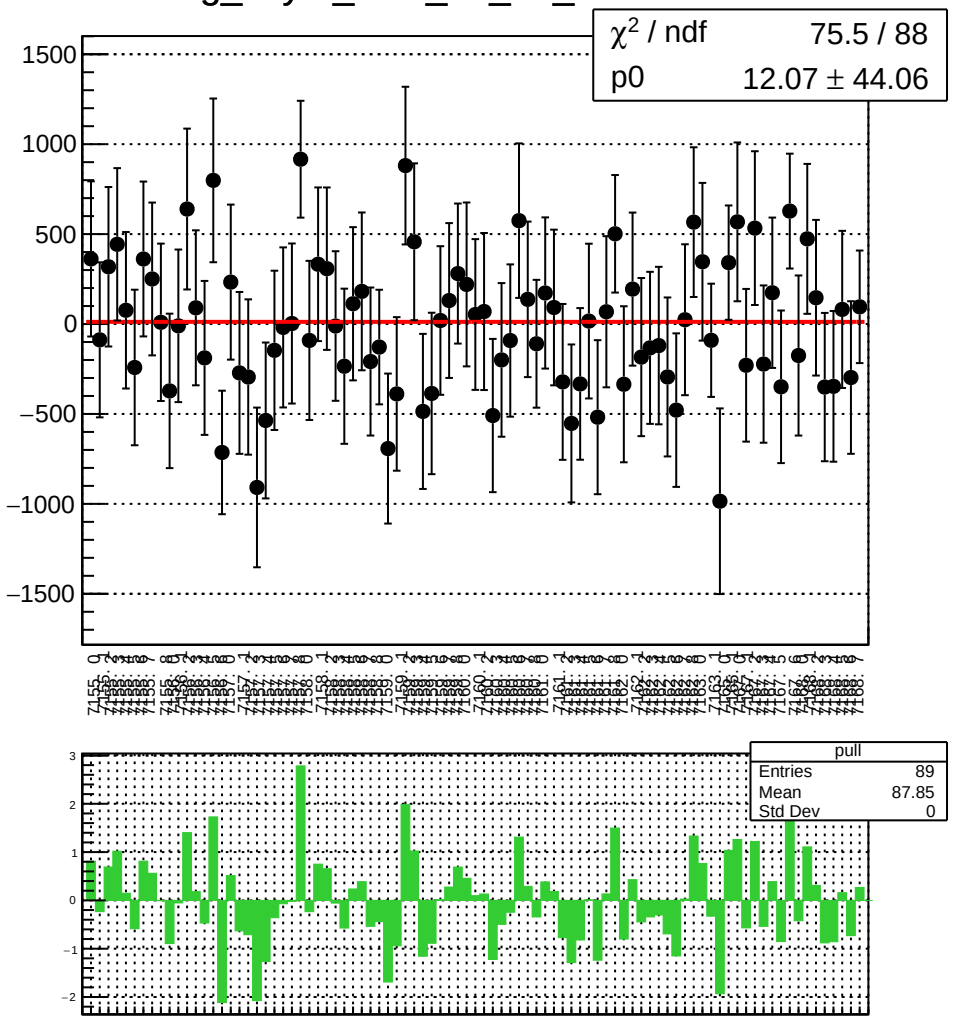

pull1D
Entries 89
Mean −0.01431
Std Dev 1.014

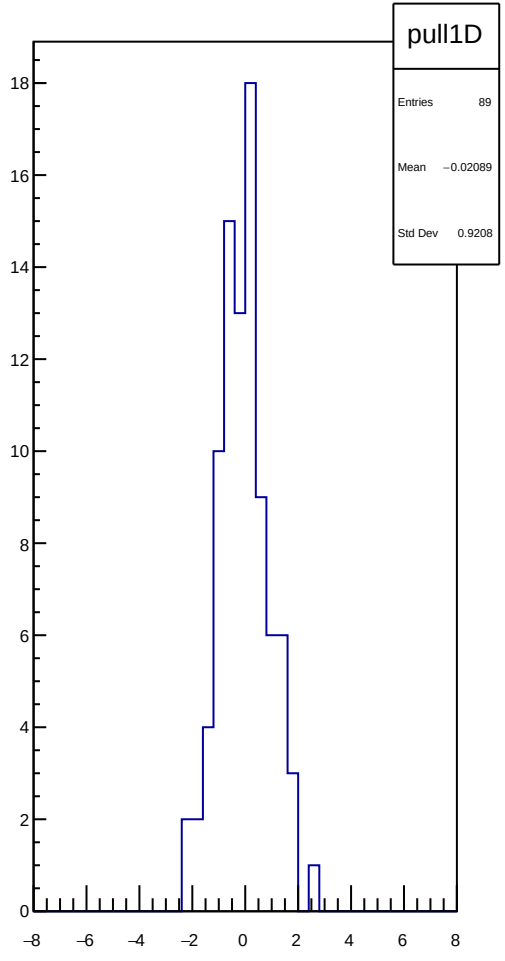

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6469 / 88
p0 75.13 ± 0.05722
90
85
80
75
70
65

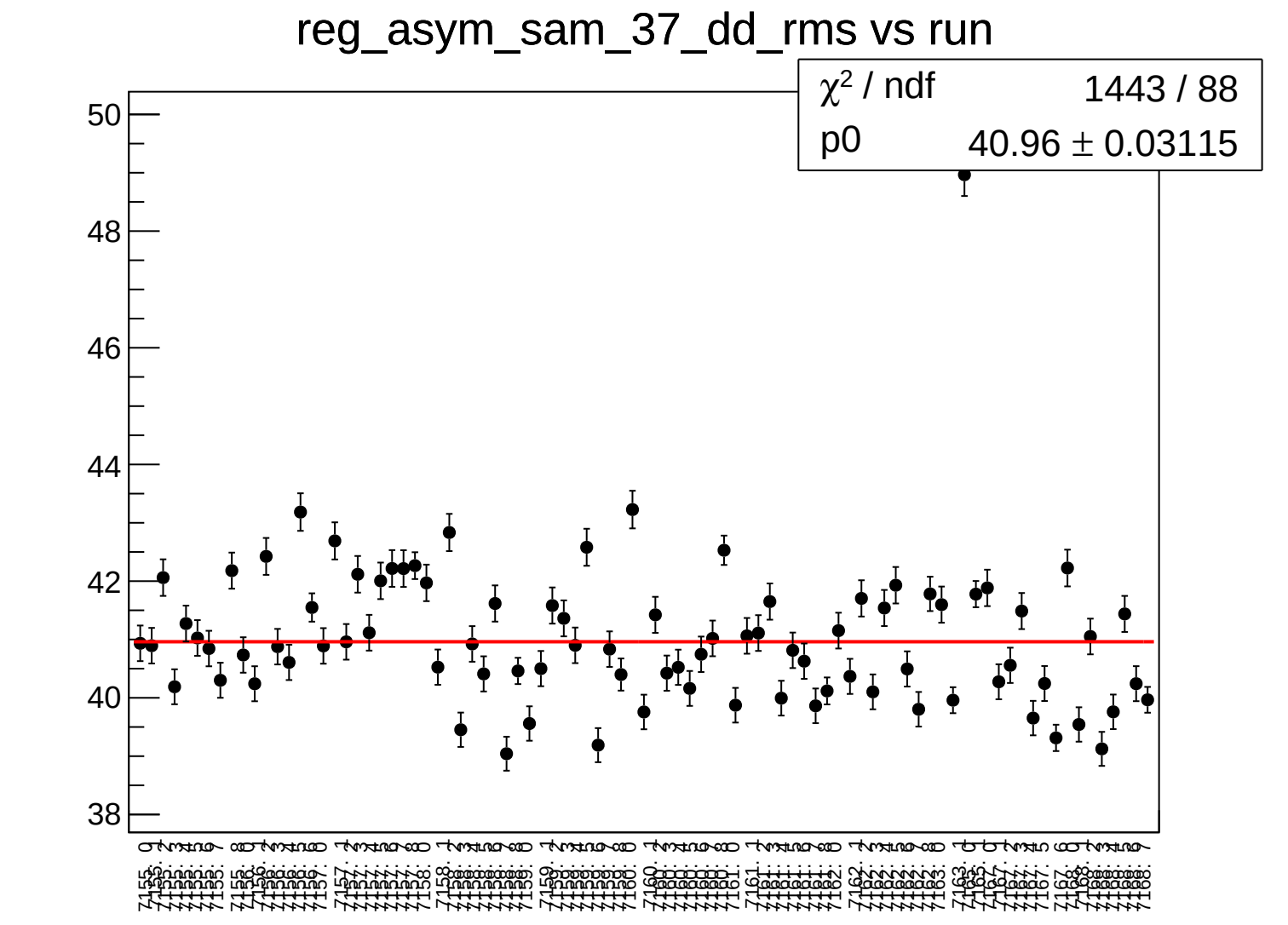

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.22 / 88
p0 −1.201e−14 ± 3.422e−14
pull
Entries 89
Mean 108.2
Std Dev 0

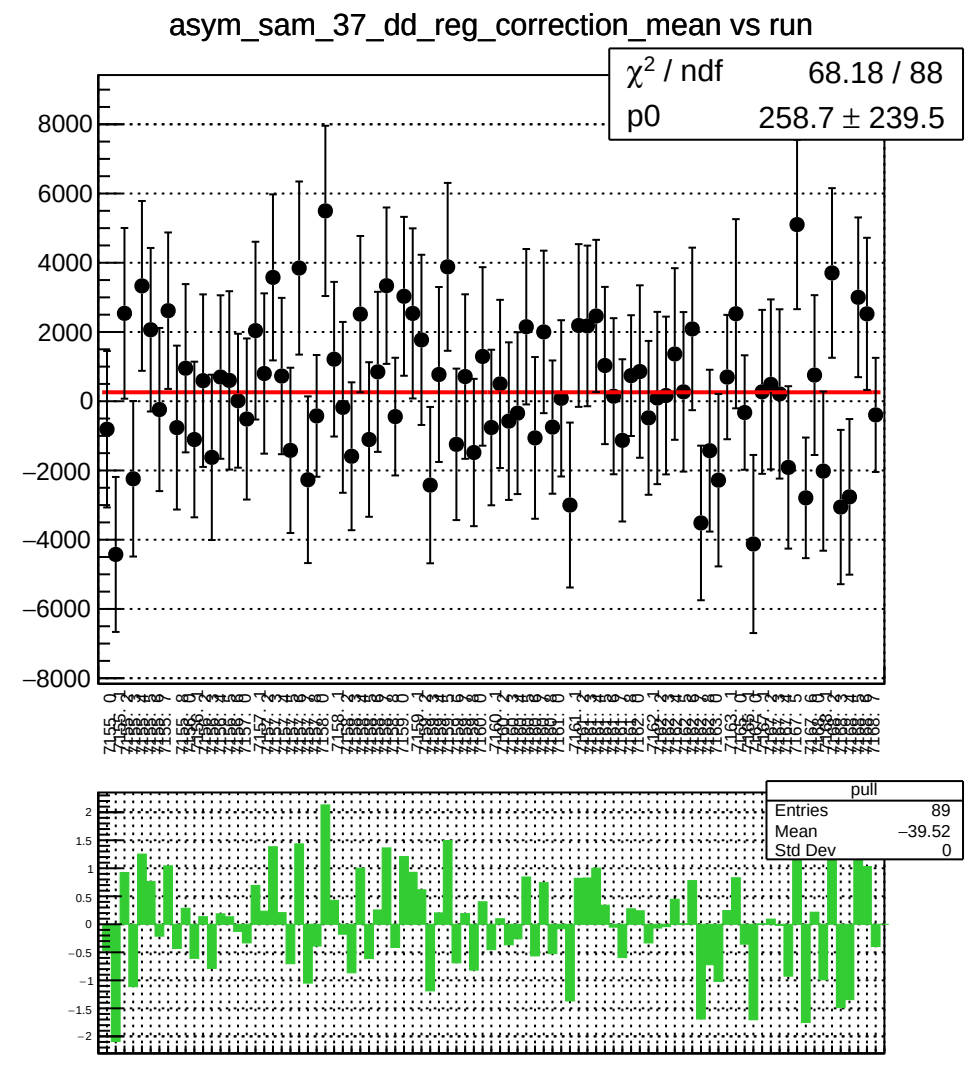

pull1D
Entries 89
Mean 0.06144
Std Dev 1.043

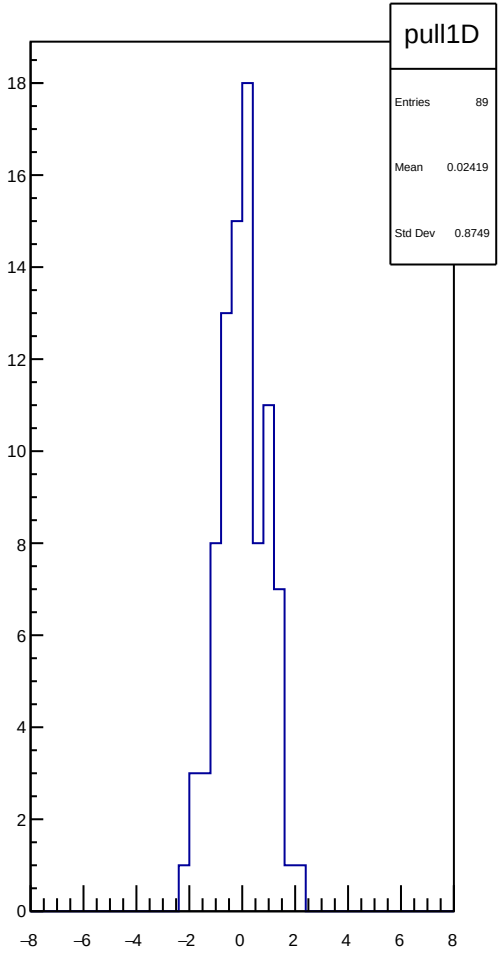

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.487e+05 / 88
p0 2.63e−11 ± 2.42e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

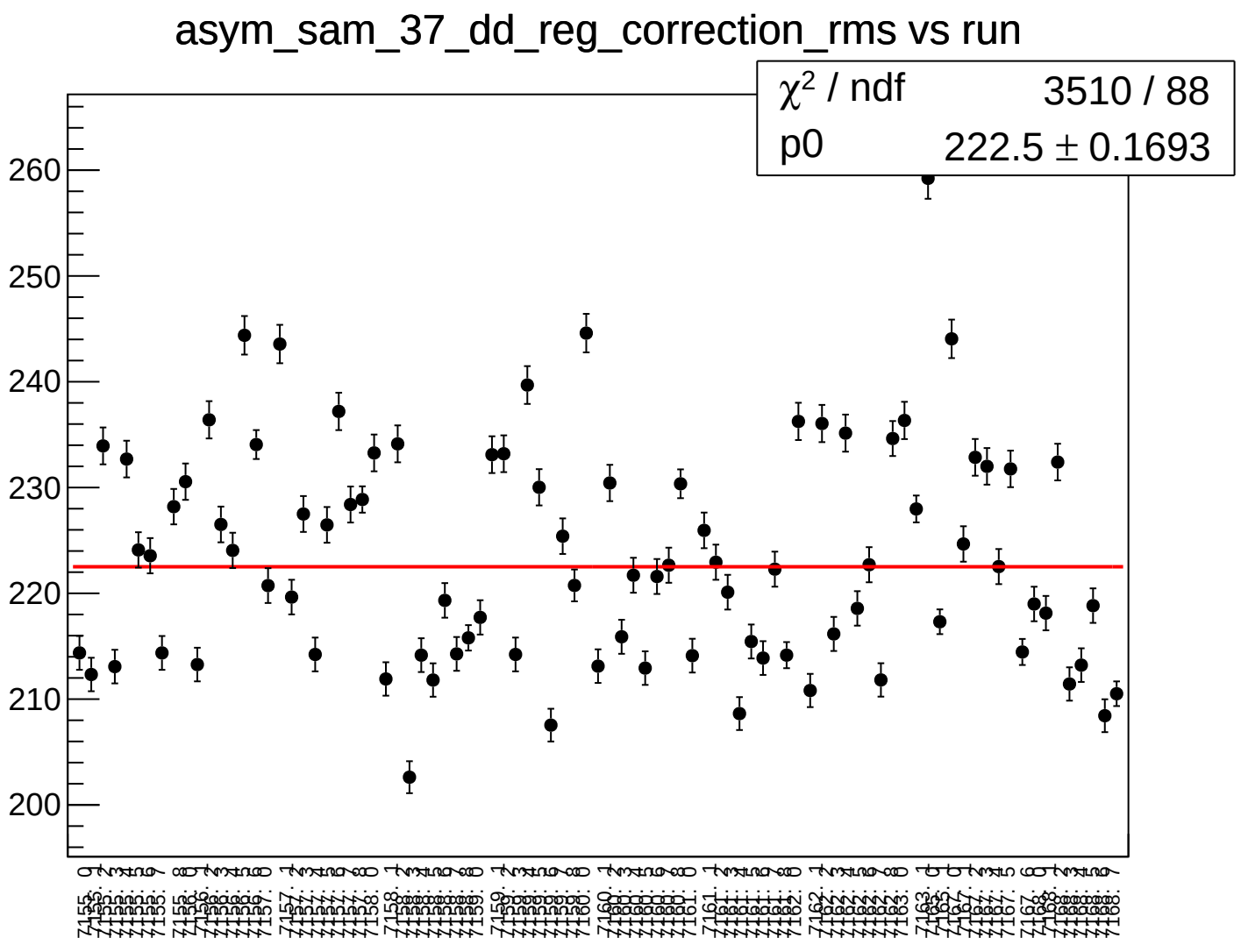

reg_asym_sam_37_dd_mean vs run
χ² / ndf 75.5 / 88
p0 12.07 ± 44.06
pull
Entries 89
Mean 87.85
Std Dev 0

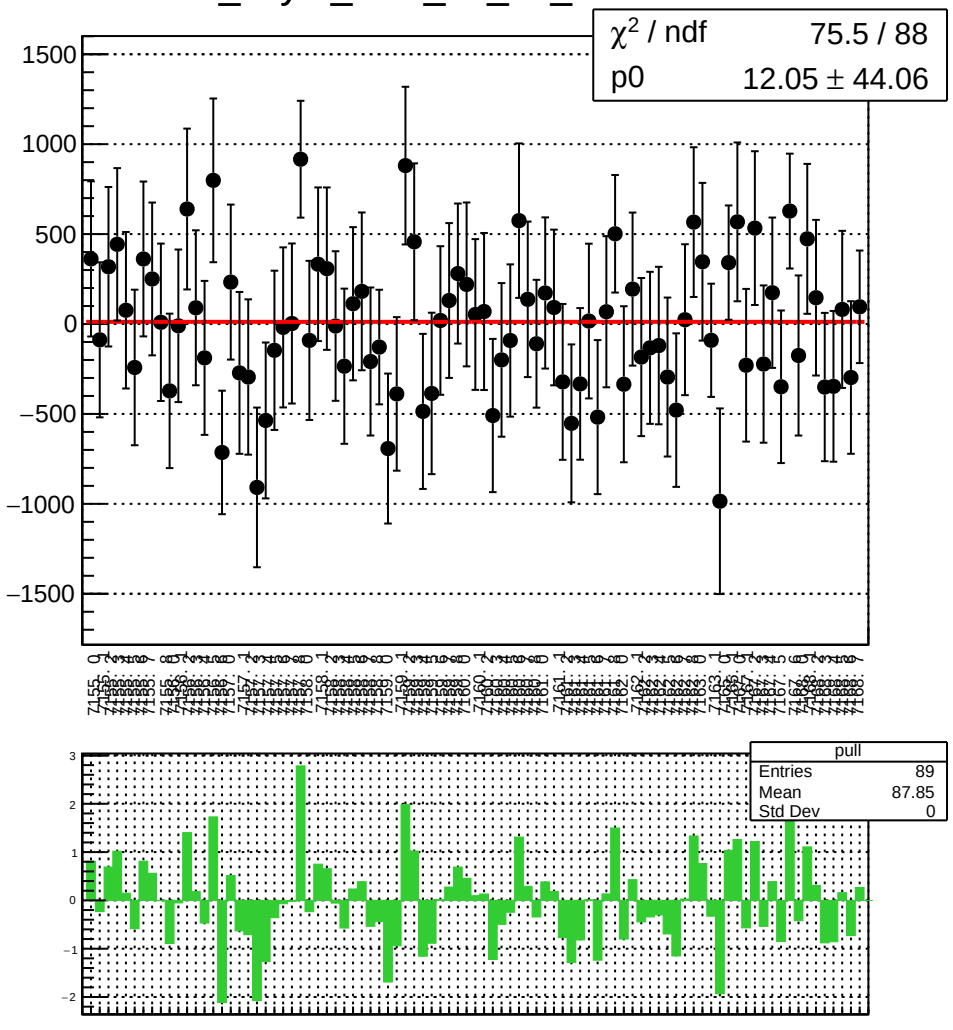

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9208

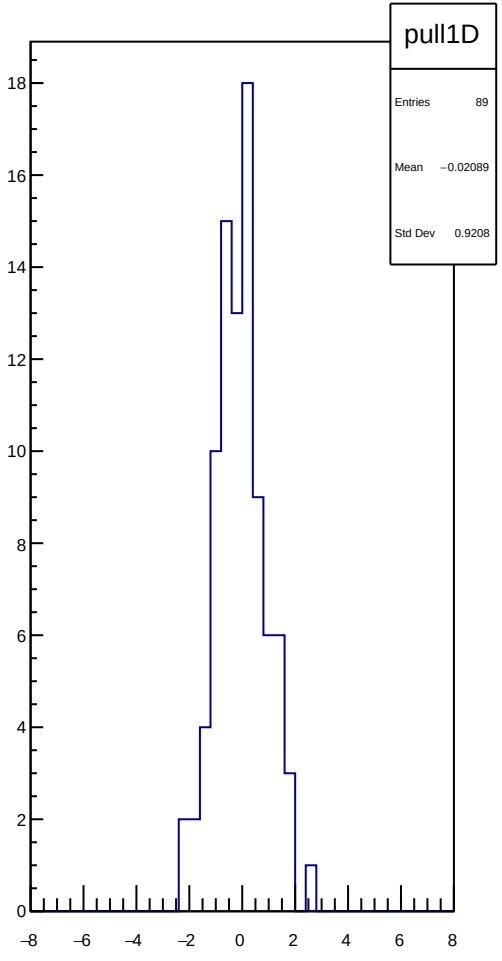

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1443 / 88
p0 40.96 ± 0.03115
50
48
46
44
42
40
38

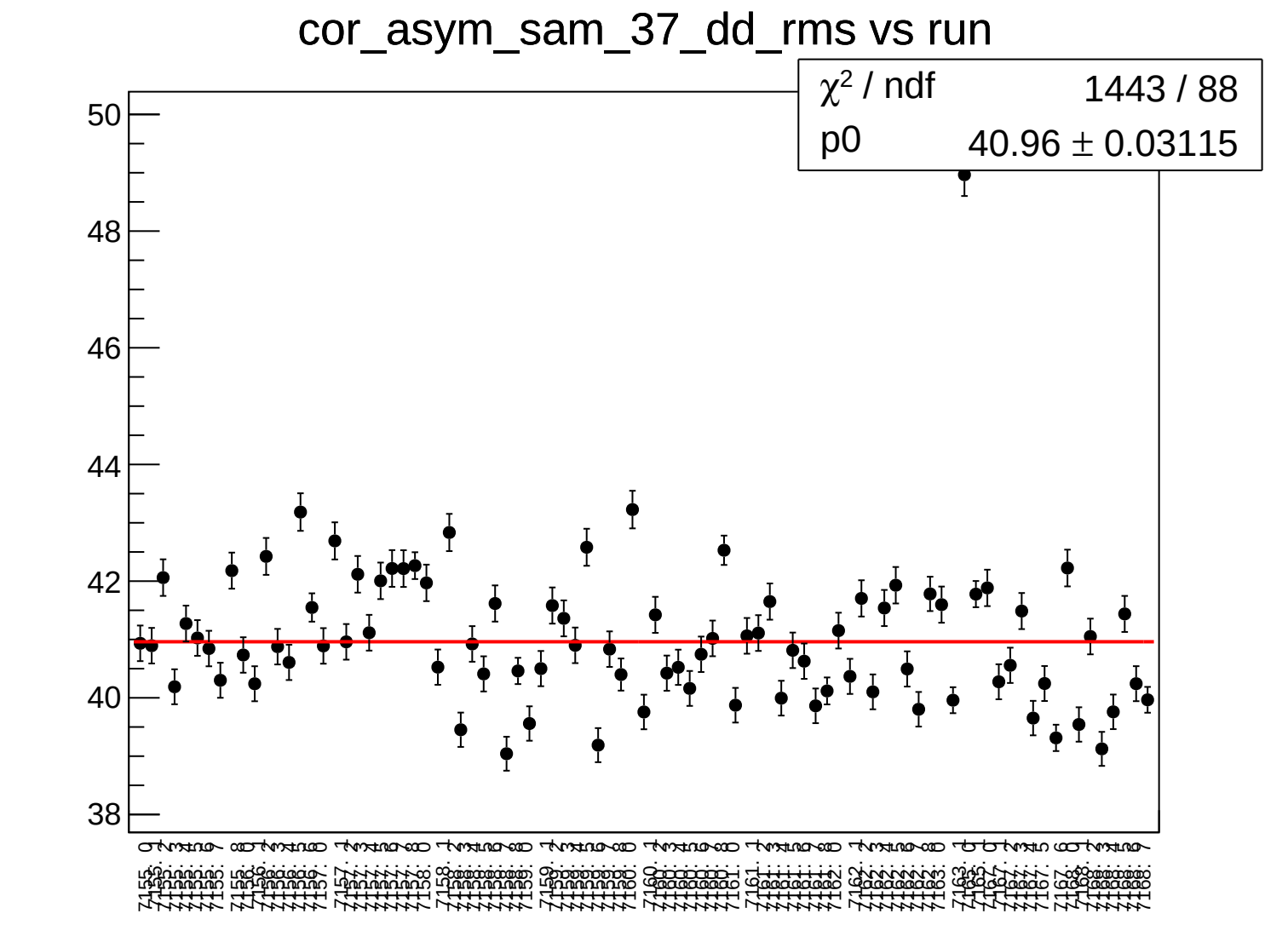

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 68.18 / 88
p0 258.7 ± 239.5
pull
Entries 89
Mean −39.52
Std Dev 0

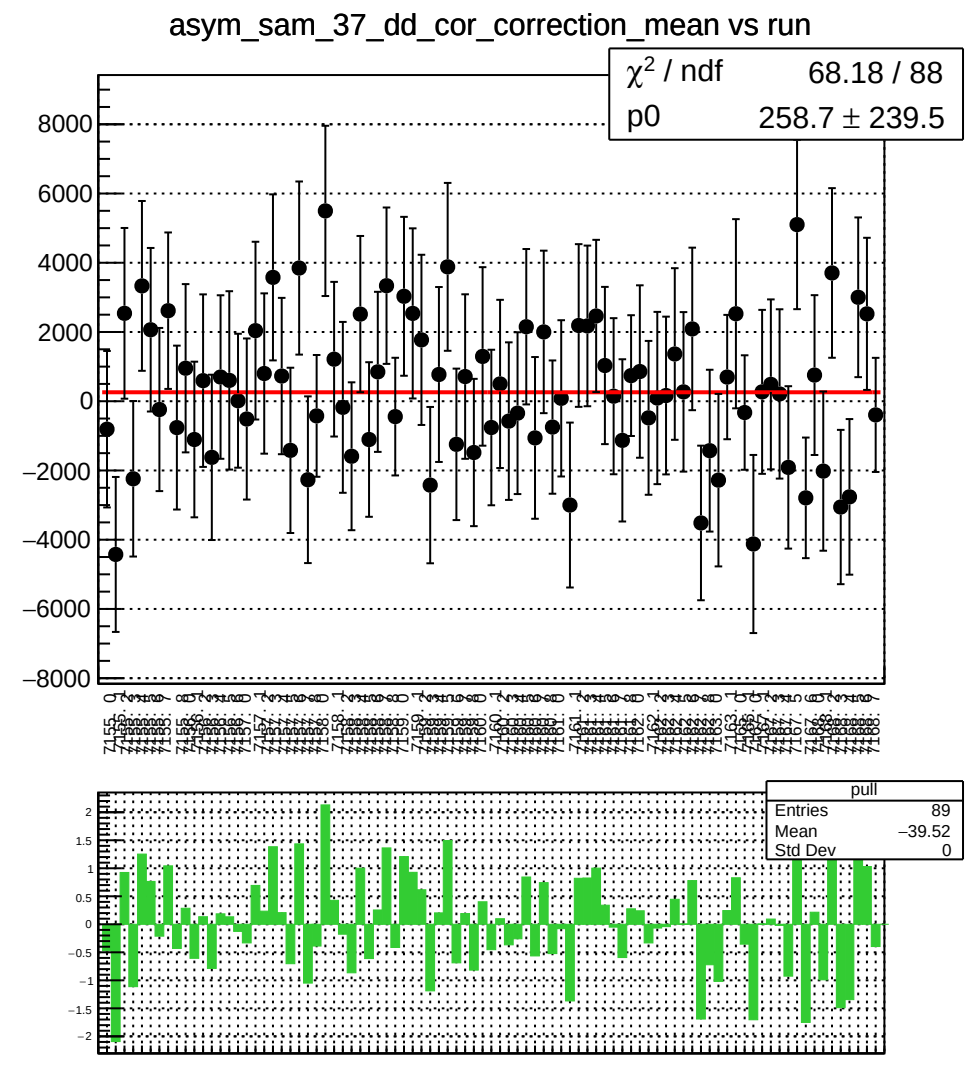

pull1D
Entries 89
Mean 0.02419
Std Dev 0.8749

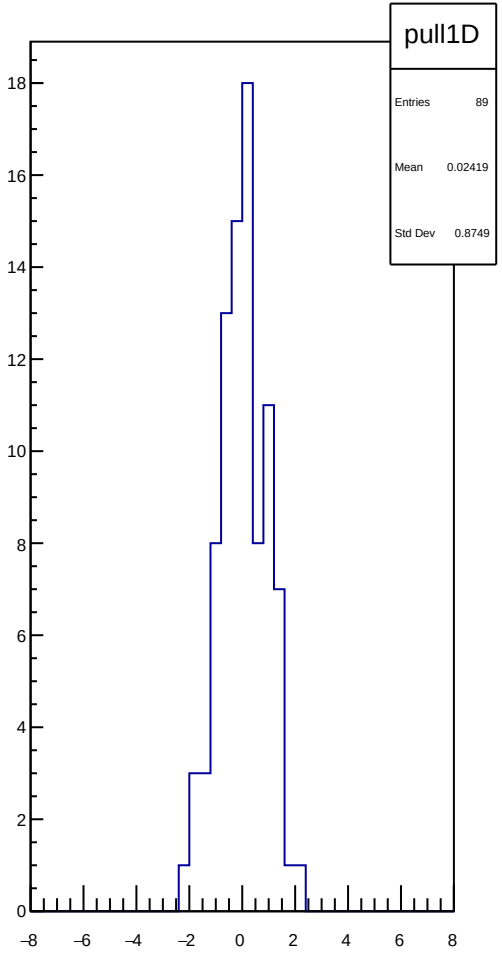

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 3510 / 88
p0 222.5 ± 0.1693
260
250
240
230
220
210
200

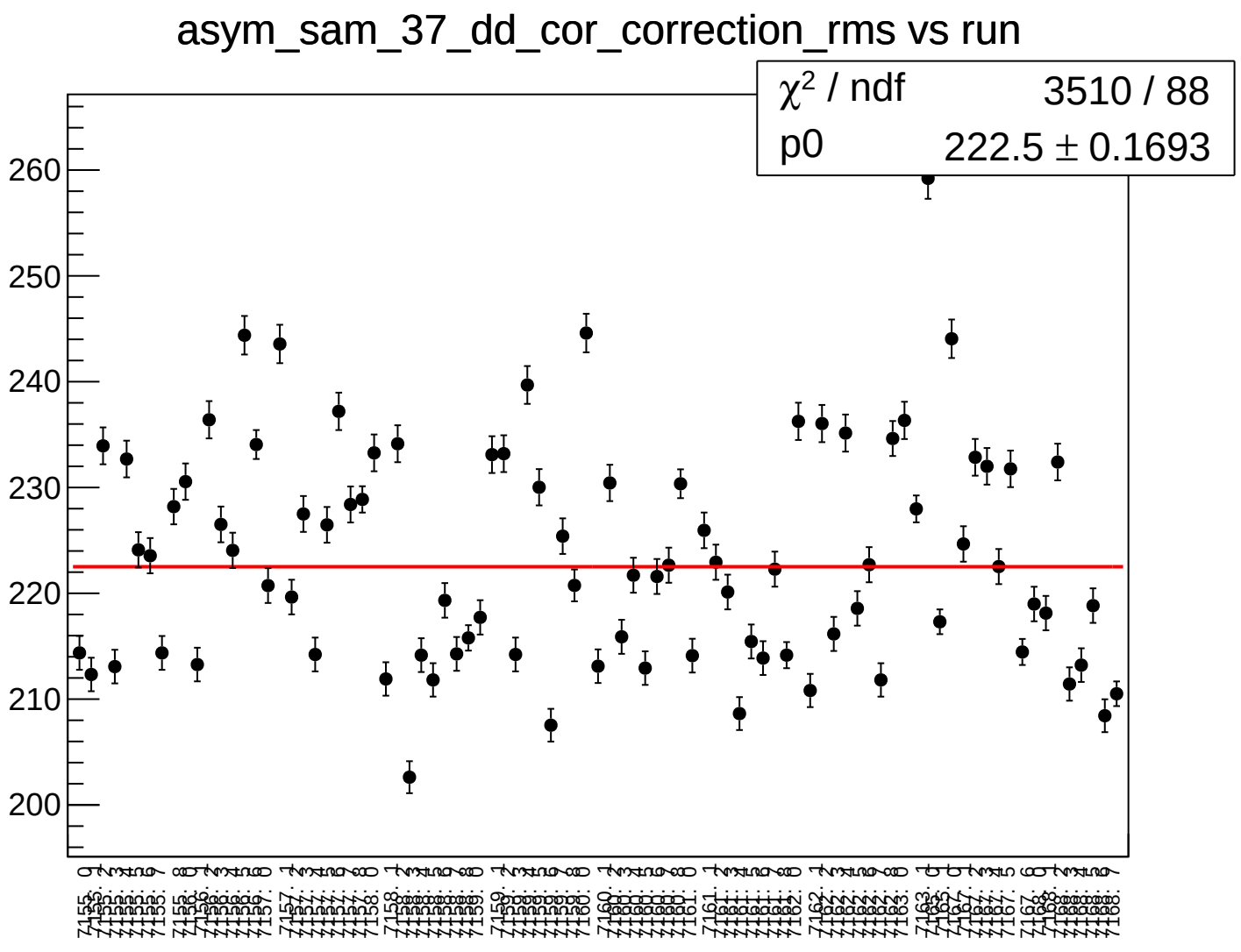

cor_asym_sam_37_dd_mean vs run
χ² / ndf 75.5 / 88
p0 12.05 ± 44.06
pull
Entries 89
Mean 87.85
Std Dev 0

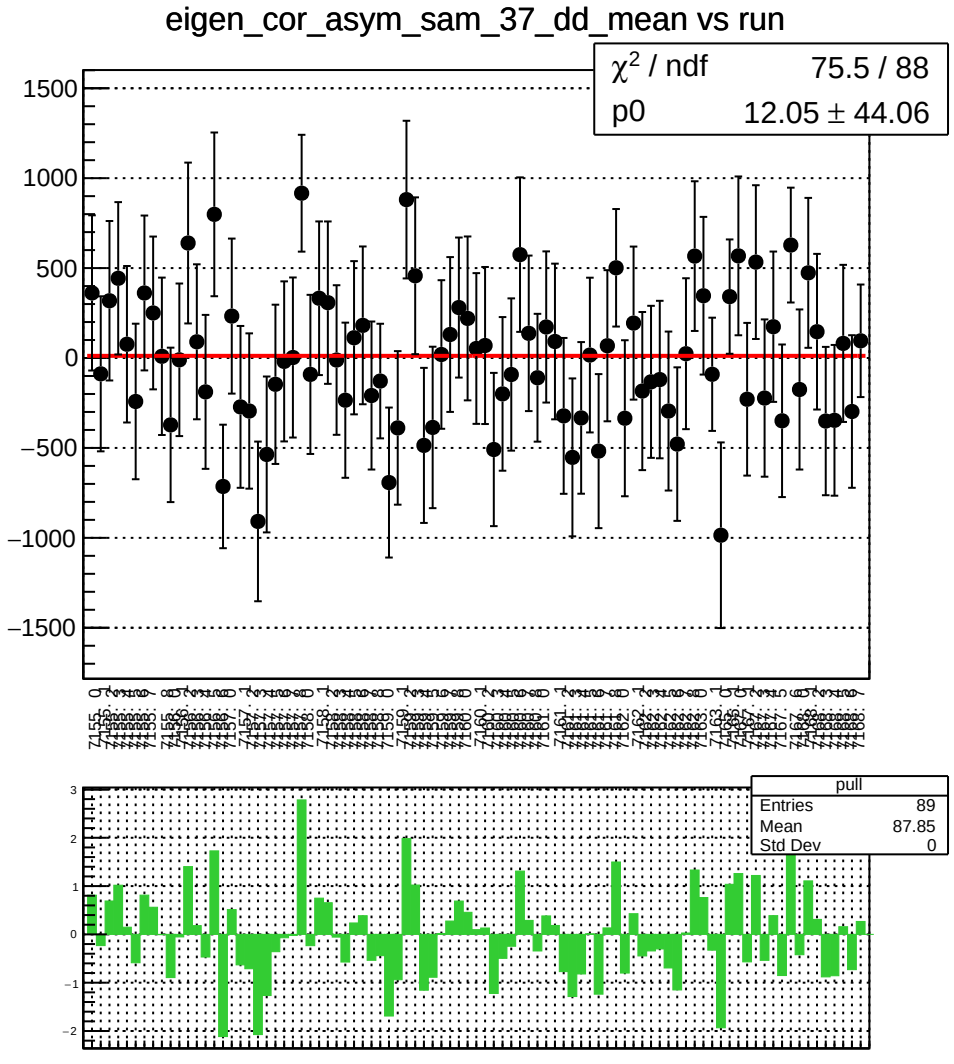

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9208

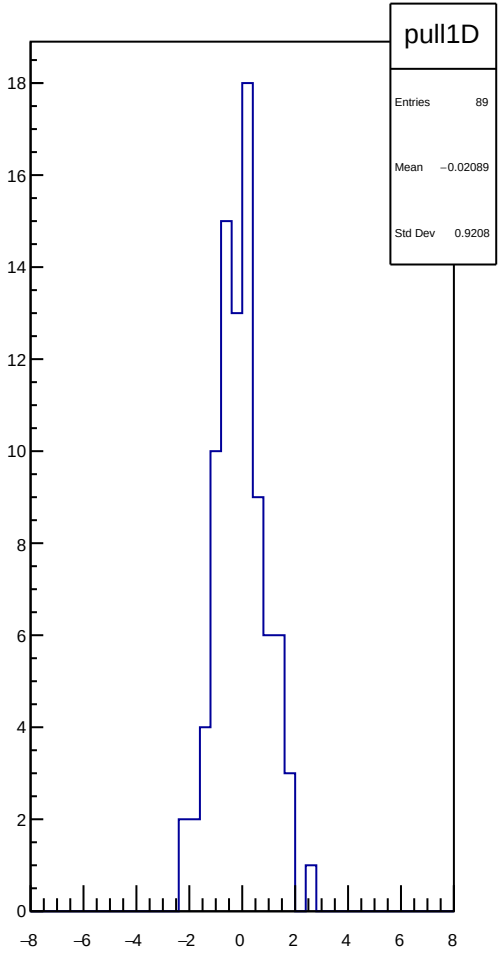

cor_asym_sam_37_dd_rms vs run
χ² / ndf 1443 / 88
p0 40.96 ± 0.03115
50
48
46
44
42
40
38

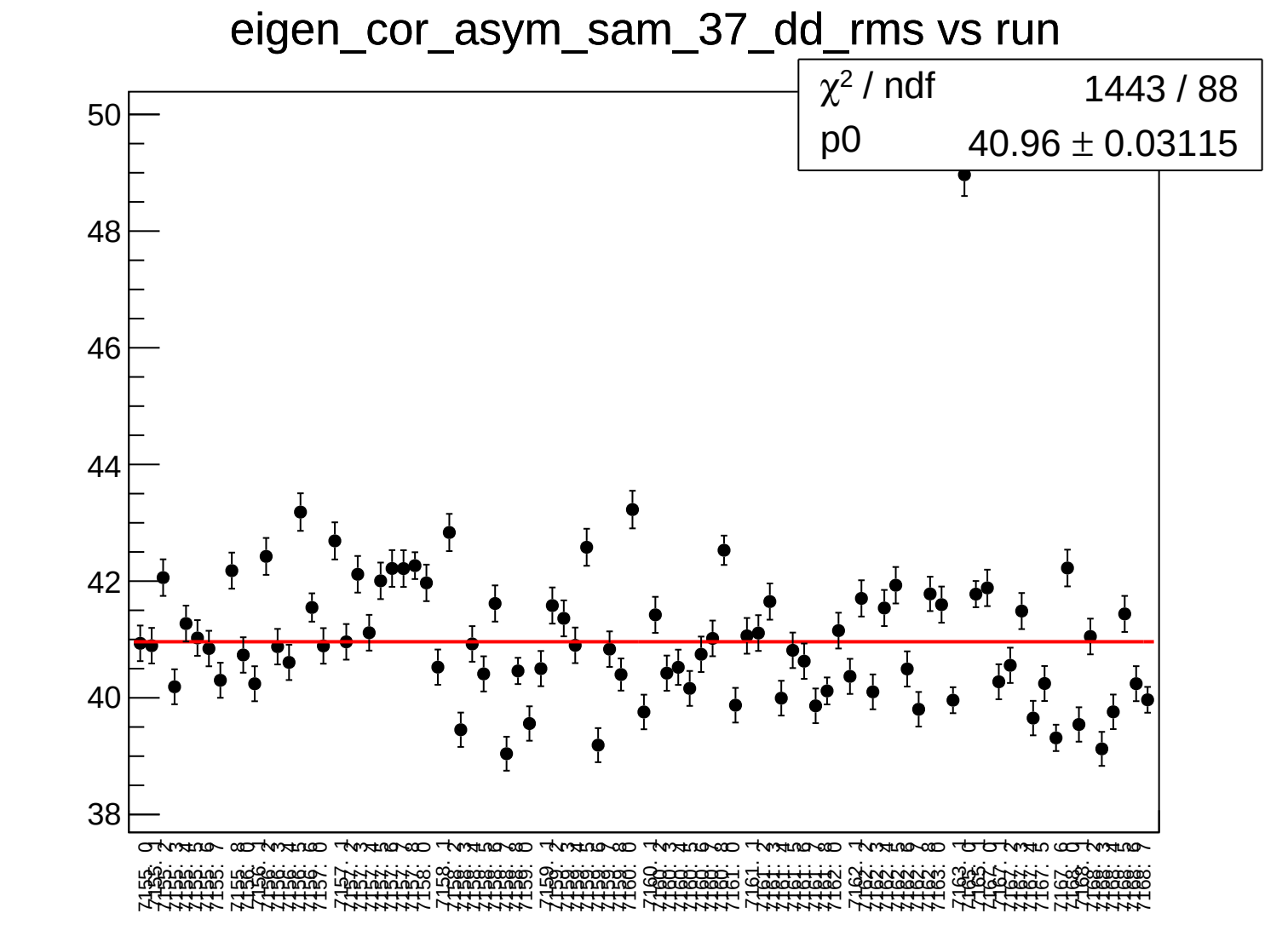

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 68.18 / 88
p0 258.7 ± 239.5
pull
Entries 89
Mean −39.52
Std Dev 0

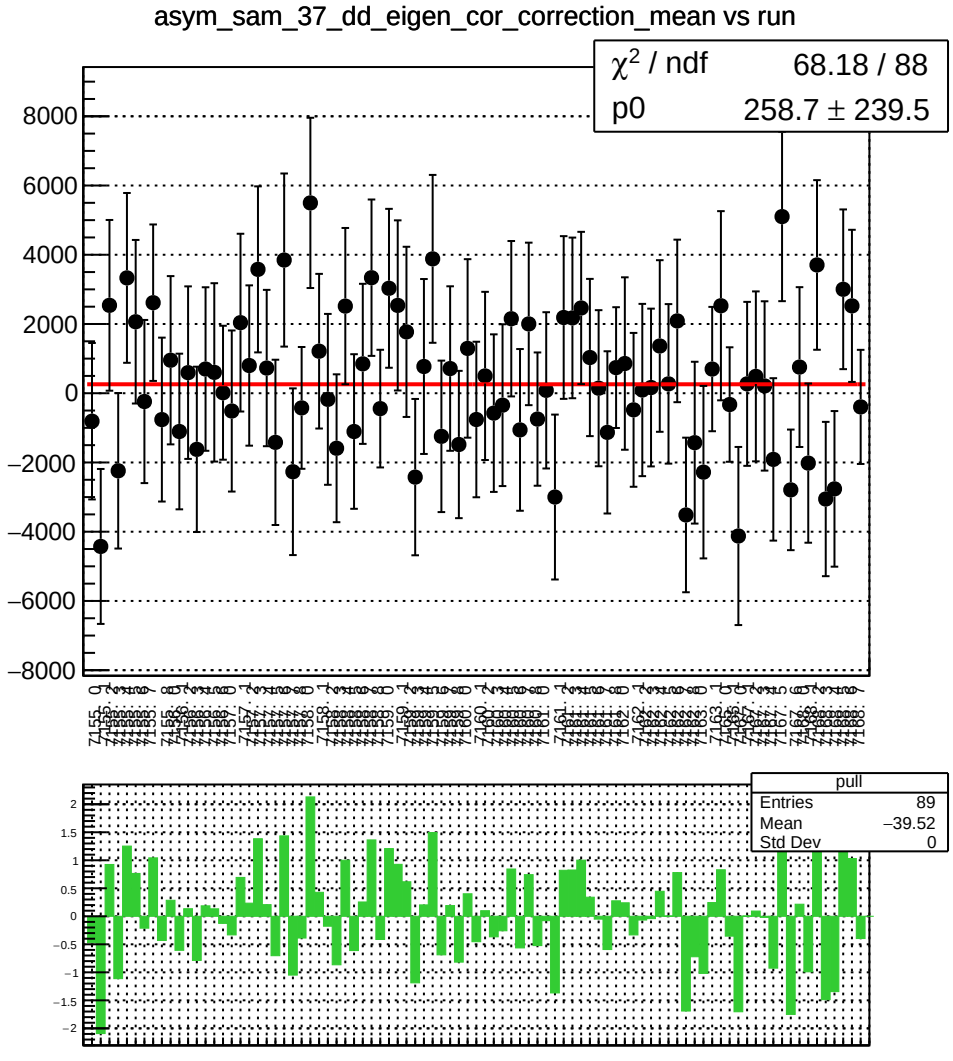

pull1D
Entries 89
Mean 0.02419
Std Dev 0.8749

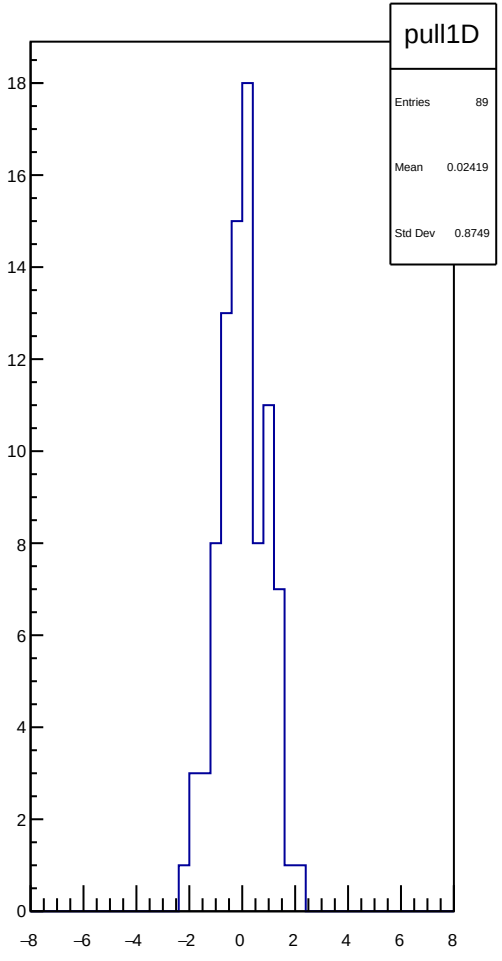

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 3510 / 88
p0 222.5 ± 0.1693
260
250
240
230
220
210
200

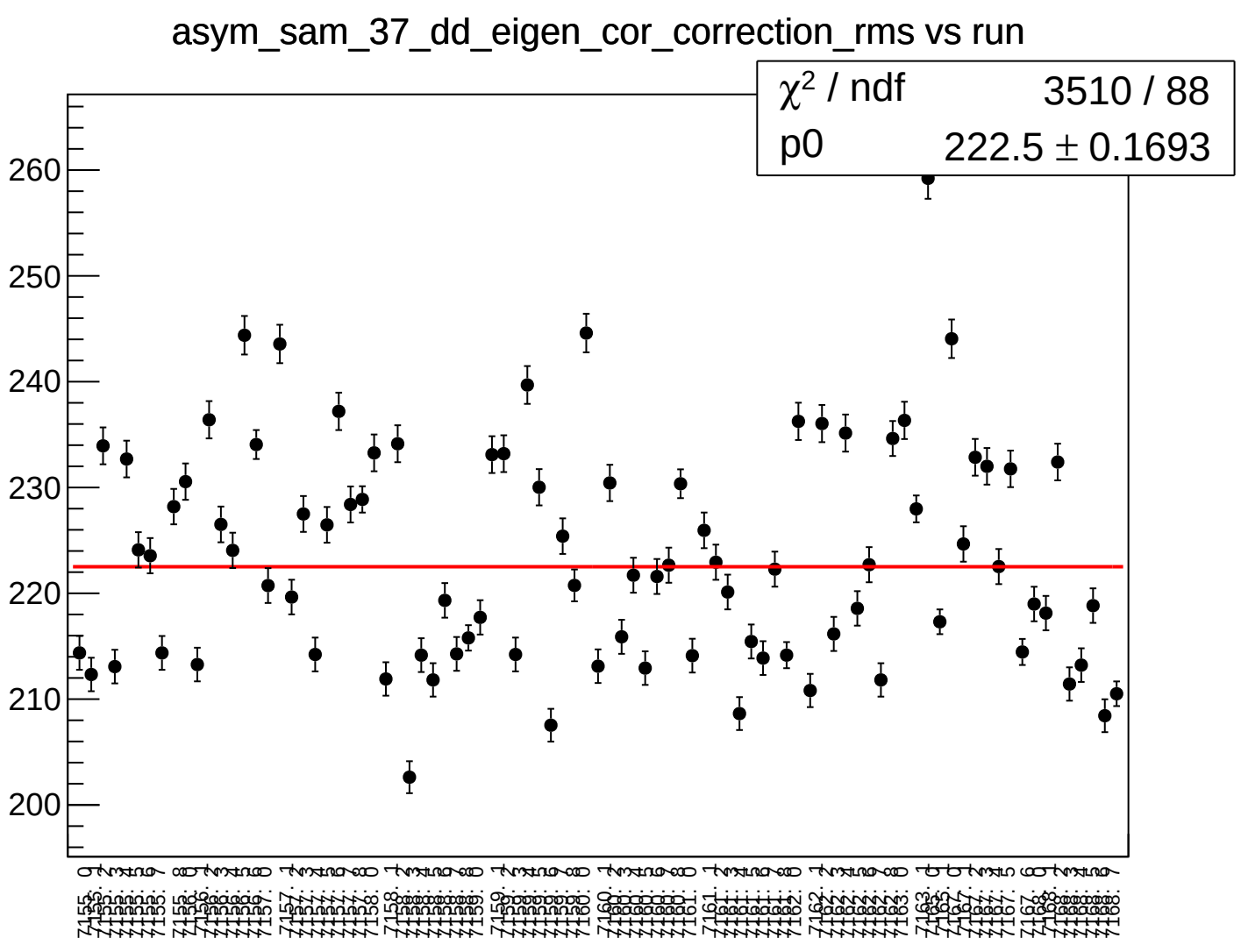

eigen_cor_asym_sam_37_dd_mean vs run
χ^2 / ndf 75.5 / 88
p0 12.05 ± 44.06
pull
Entries 89
Mean 87.85
Std Dev 0

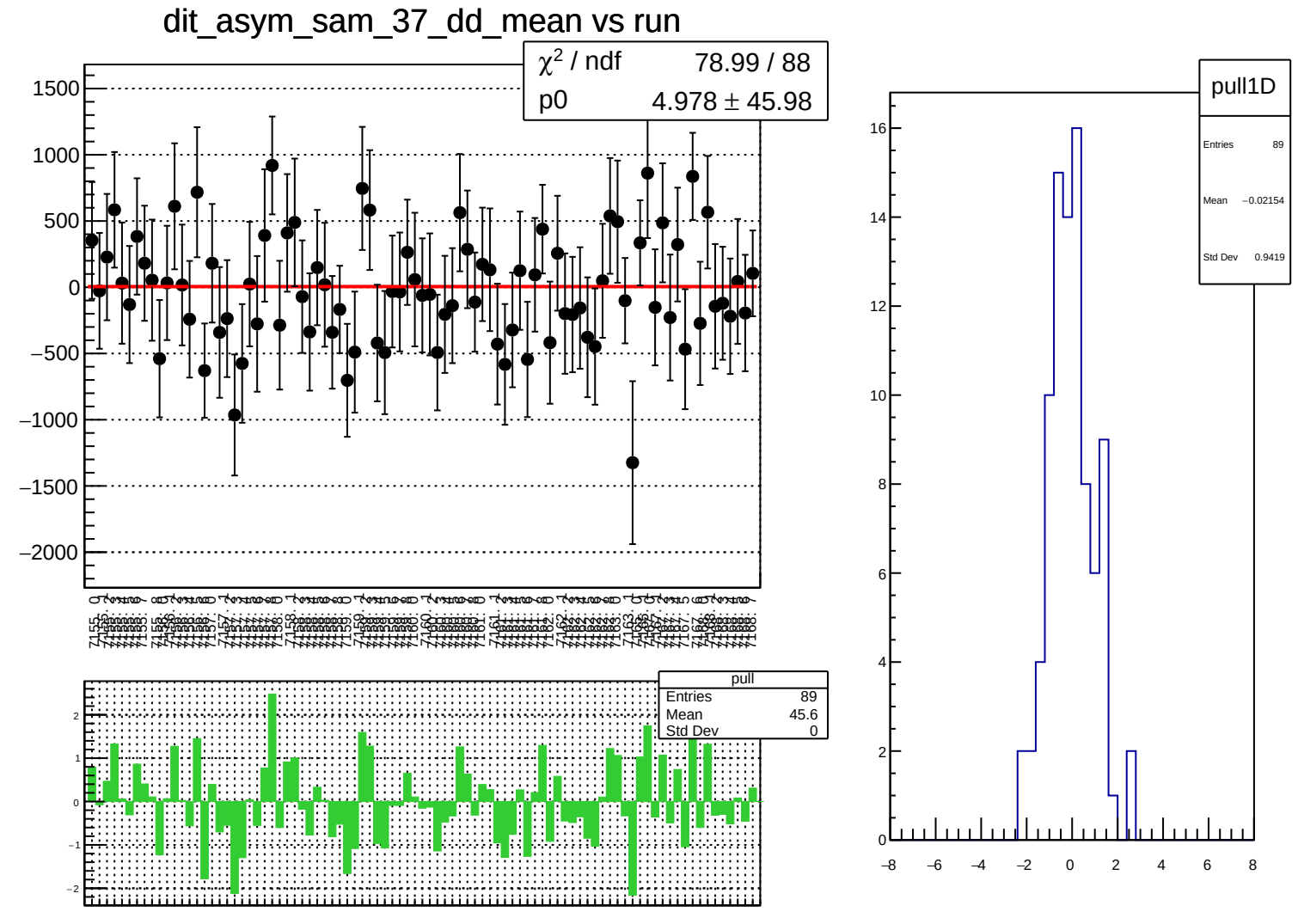

pull1D
Entries 89
Mean −0.02089
Std Dev 0.9208

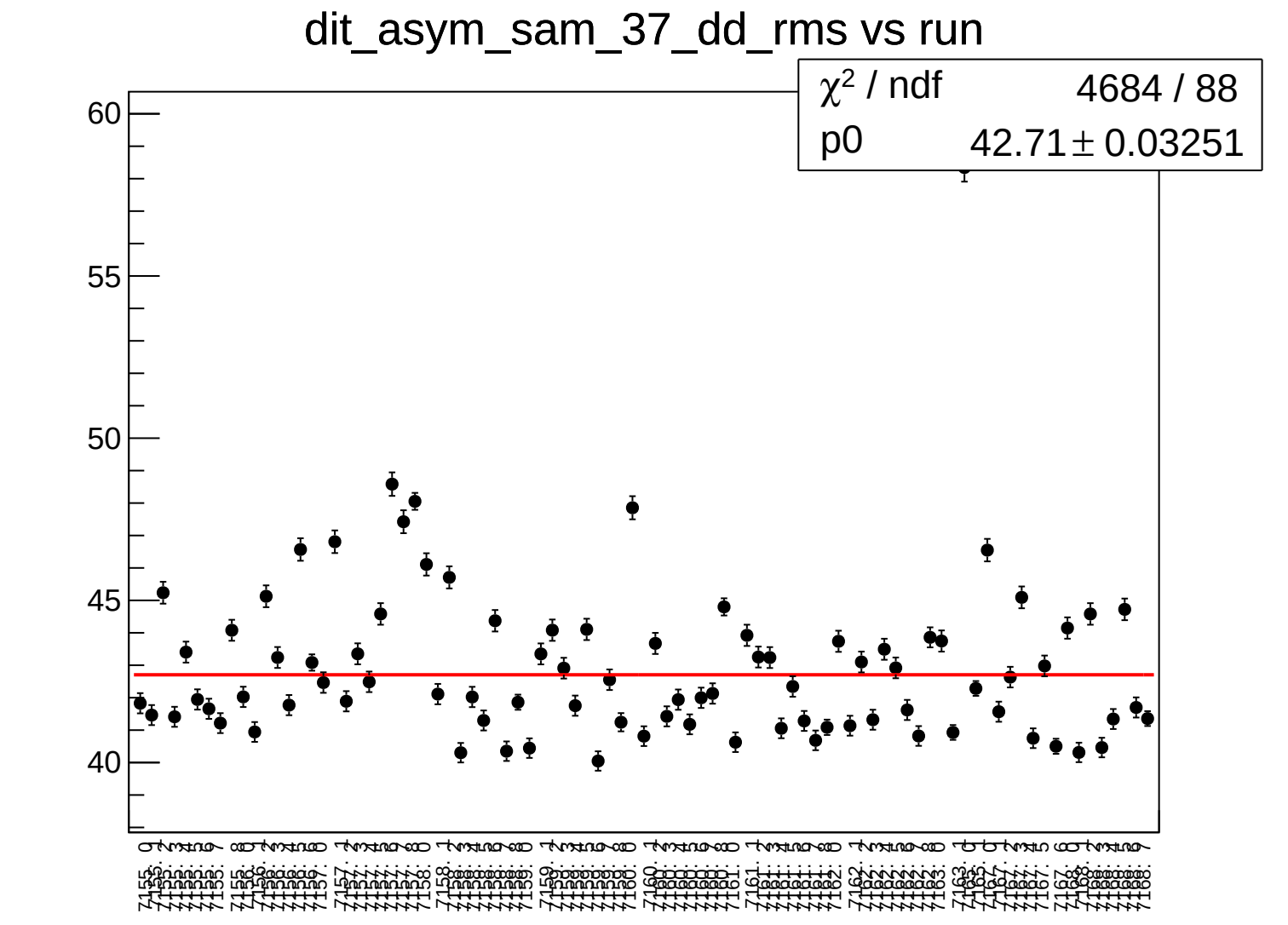

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 1443 / 88
p0 40.96 ± 0.03115
50
48
46
44
42
40
38

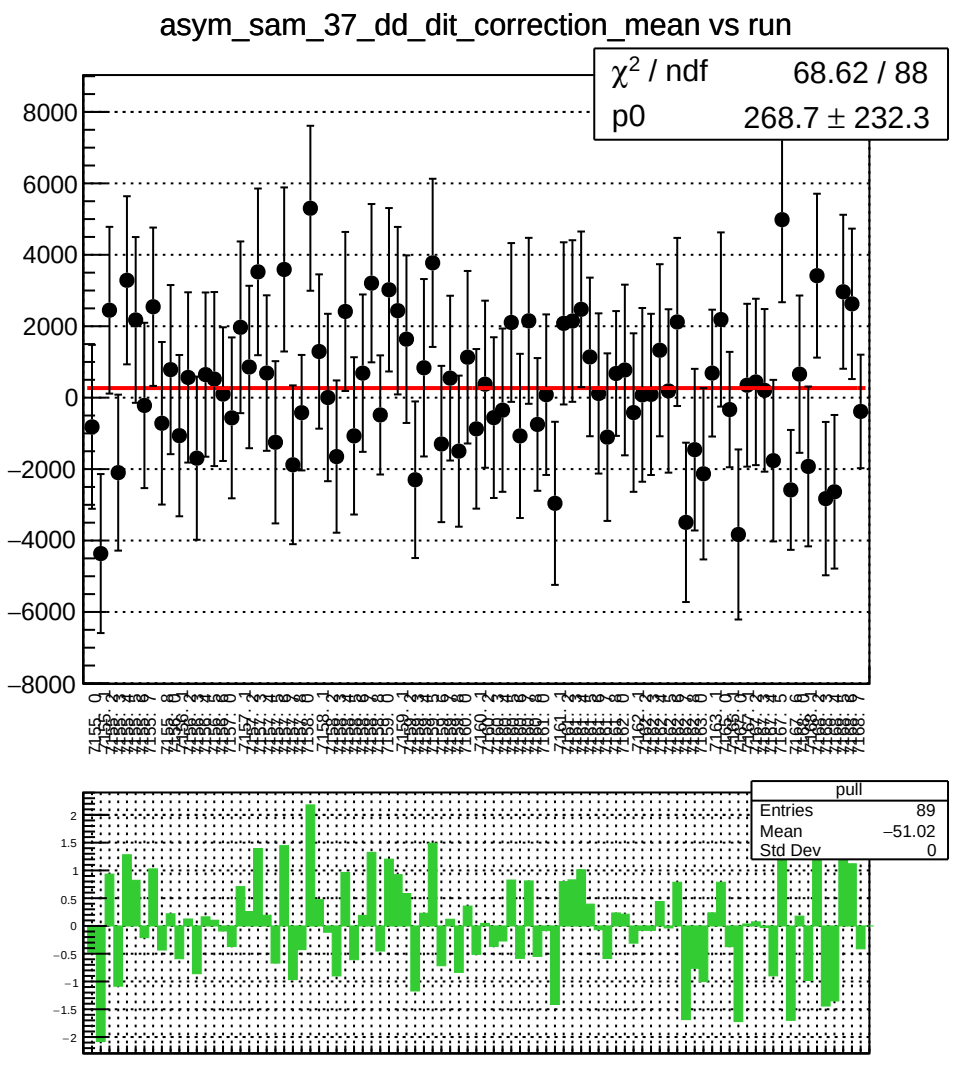

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 68.18 / 88
p0 258.7 ± 239.5
pull
Entries 89
Mean −39.52
Std Dev 0

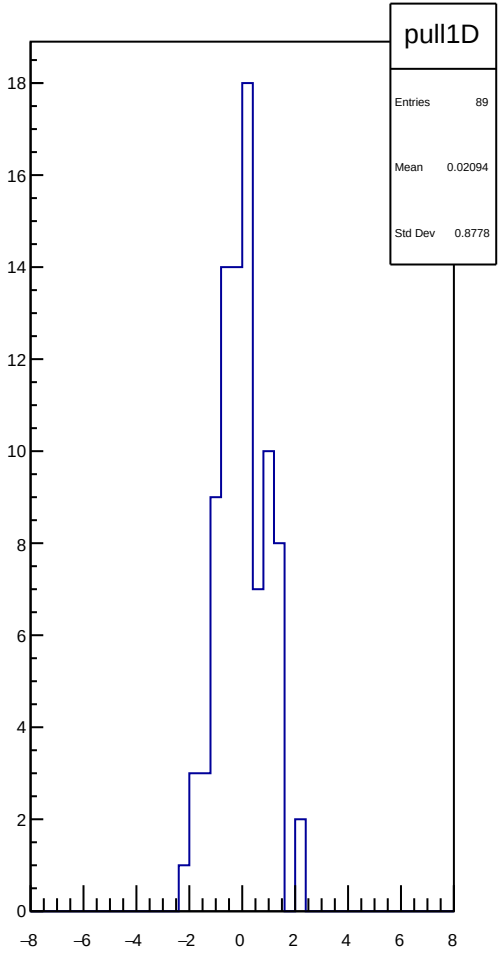

pull1D
Entries 89
Mean 0.02419
Std Dev 0.8749

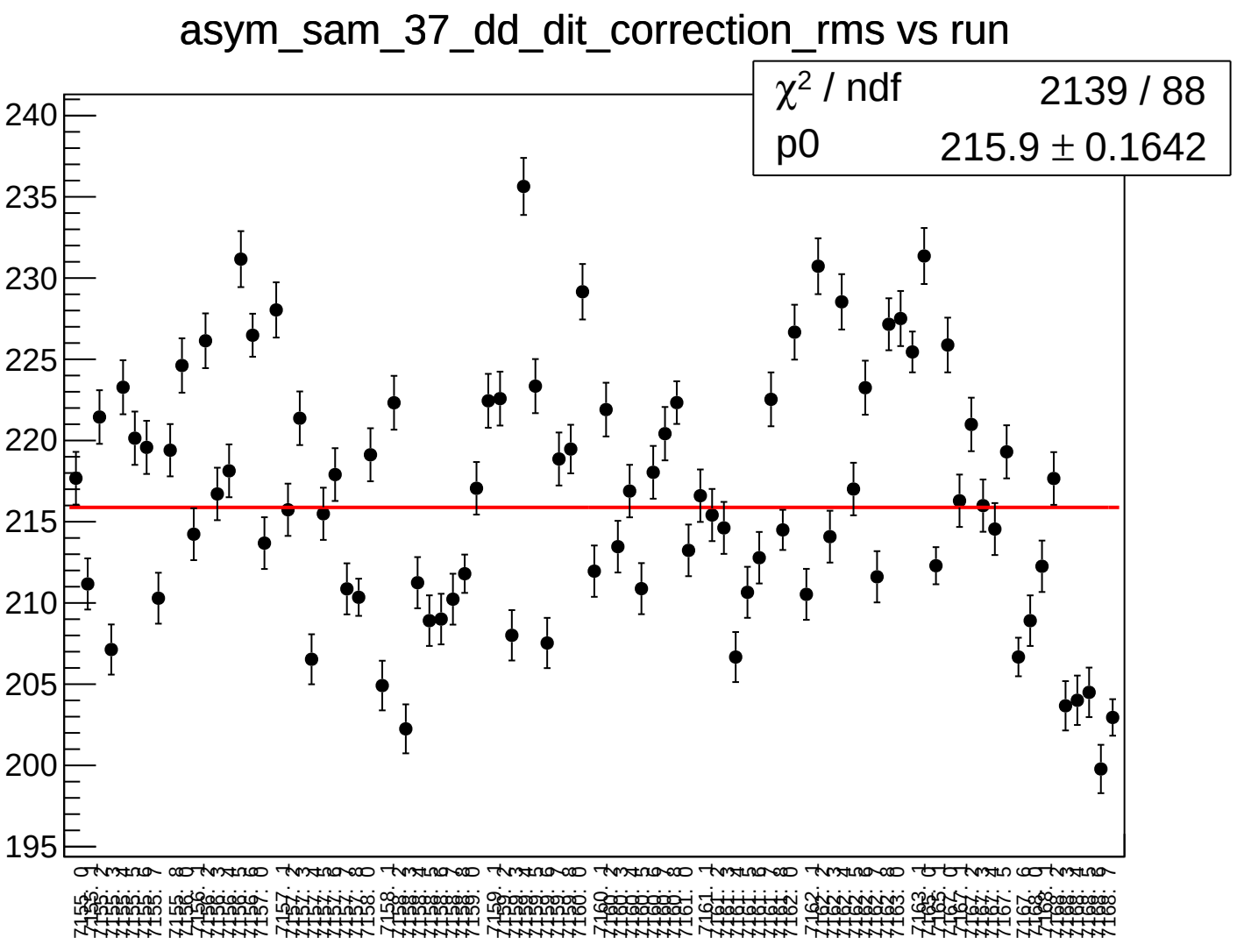

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 3510 / 88
p0 222.5 ± 0.1693
260
250
240
230
220
210
200

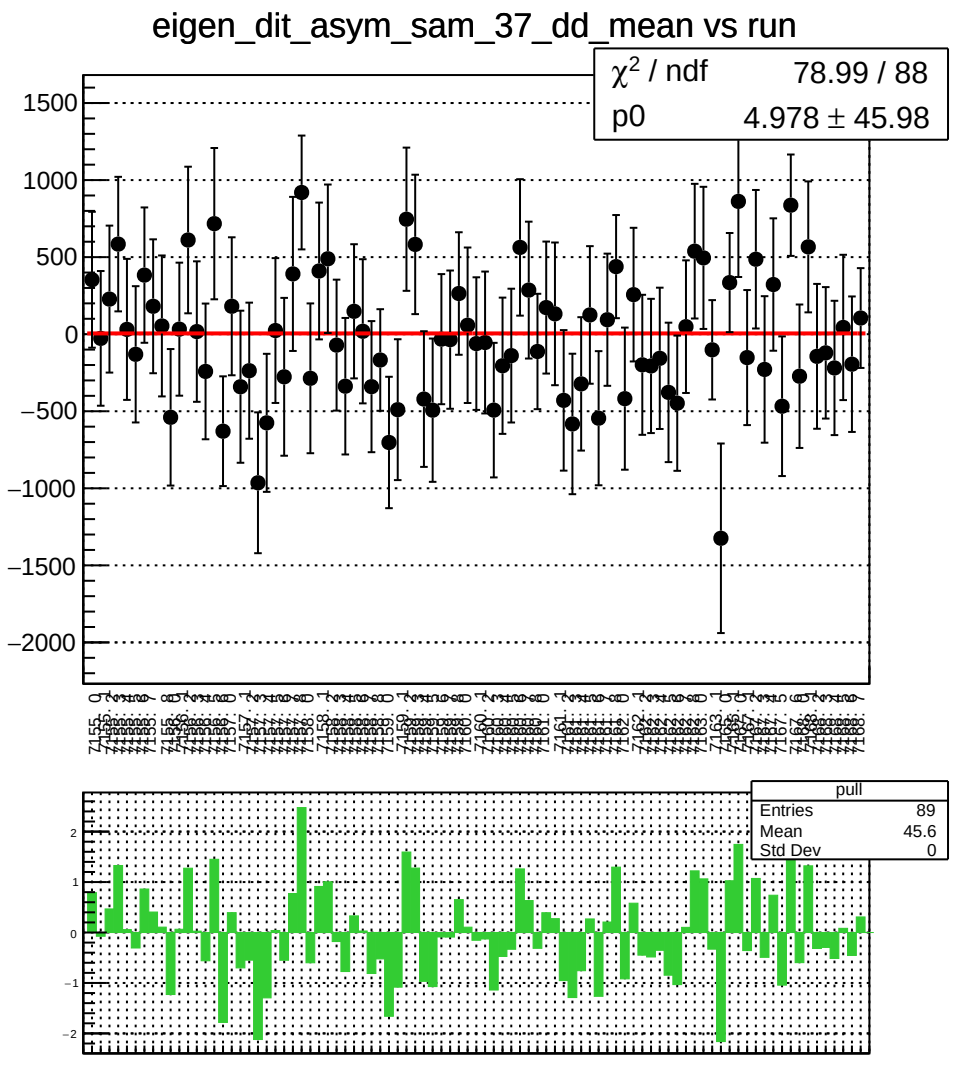

dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.99 / 88
p0 4.978 ± 45.98
pull
Entries 89
Mean 45.6
Std Dev 0
pull1D
Entries 89
Mean −0.02154
Std Dev 0.9419

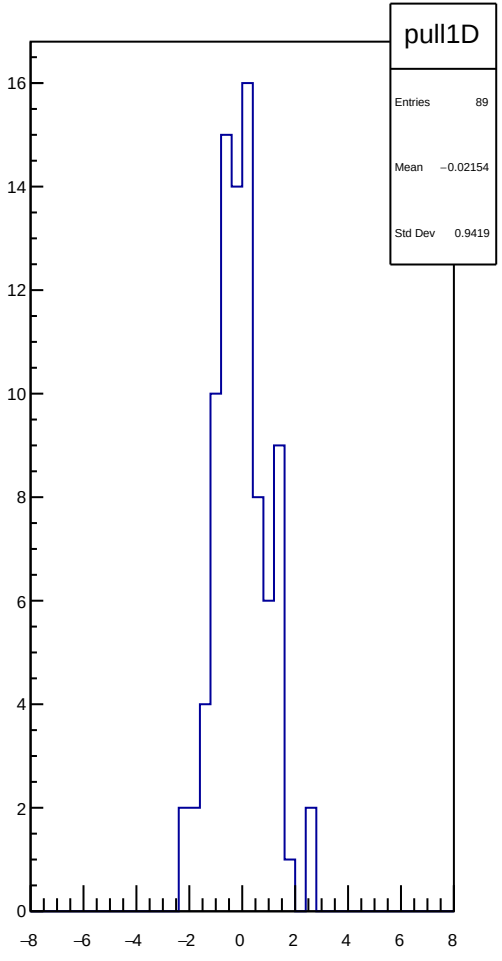

dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4684 / 88
p0 42.71 ± 0.03251
60
55
50
45
40

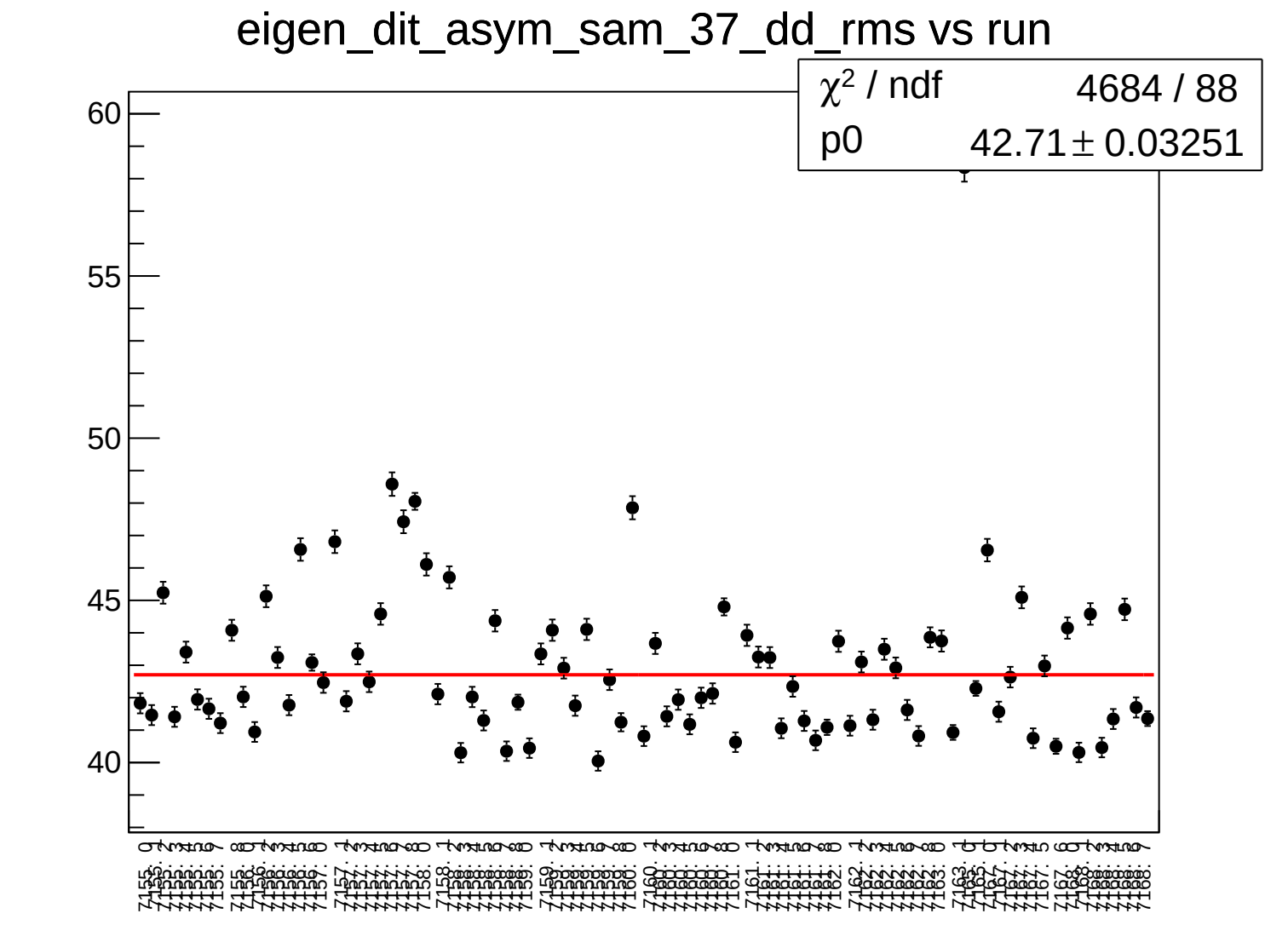

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 68.62 / 88
p0 268.7 ± 232.3
pull
Entries 89
Mean −51.02
Std Dev 0

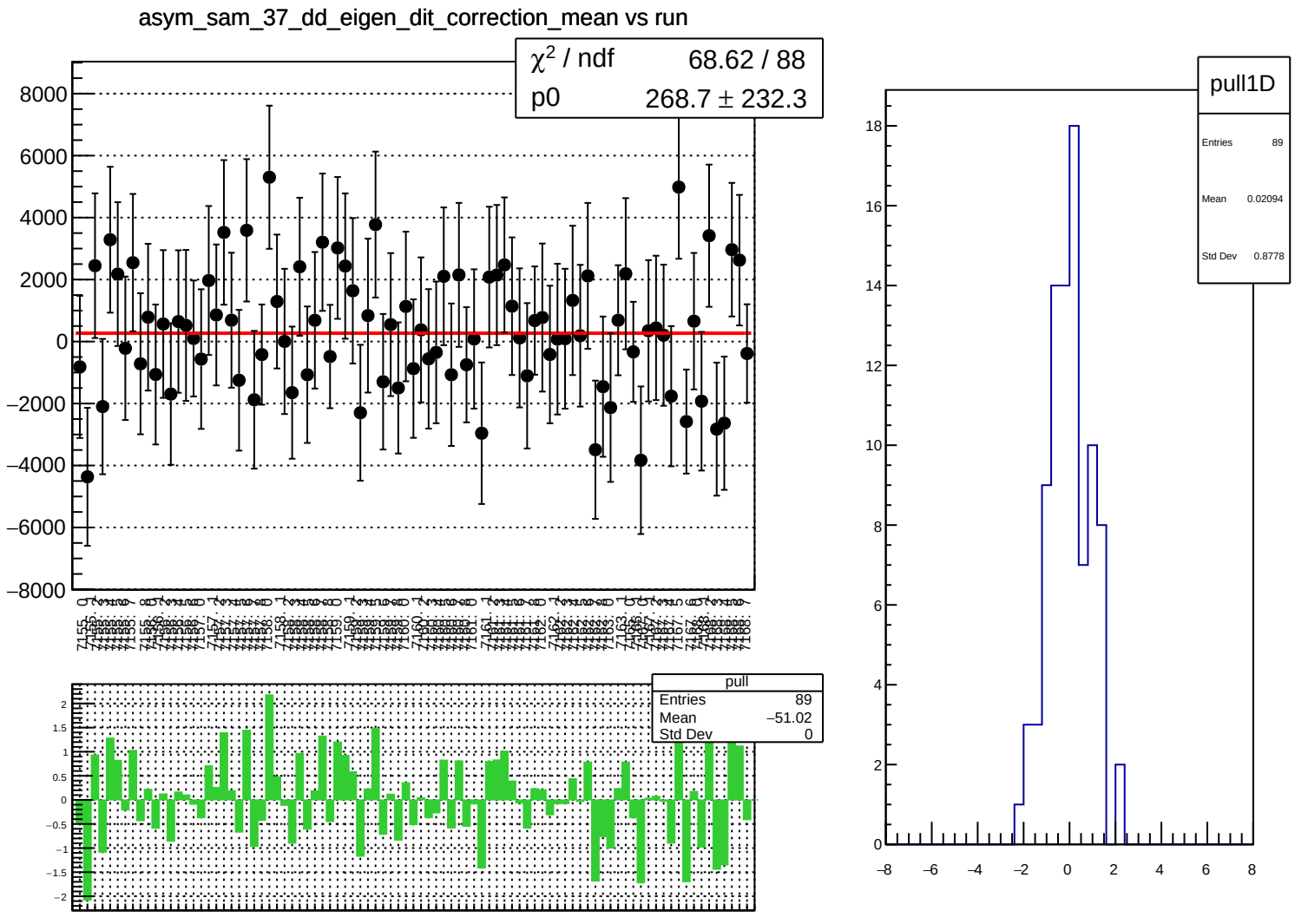

pull1D
Entries 89
Mean 0.02094
Std Dev 0.8778

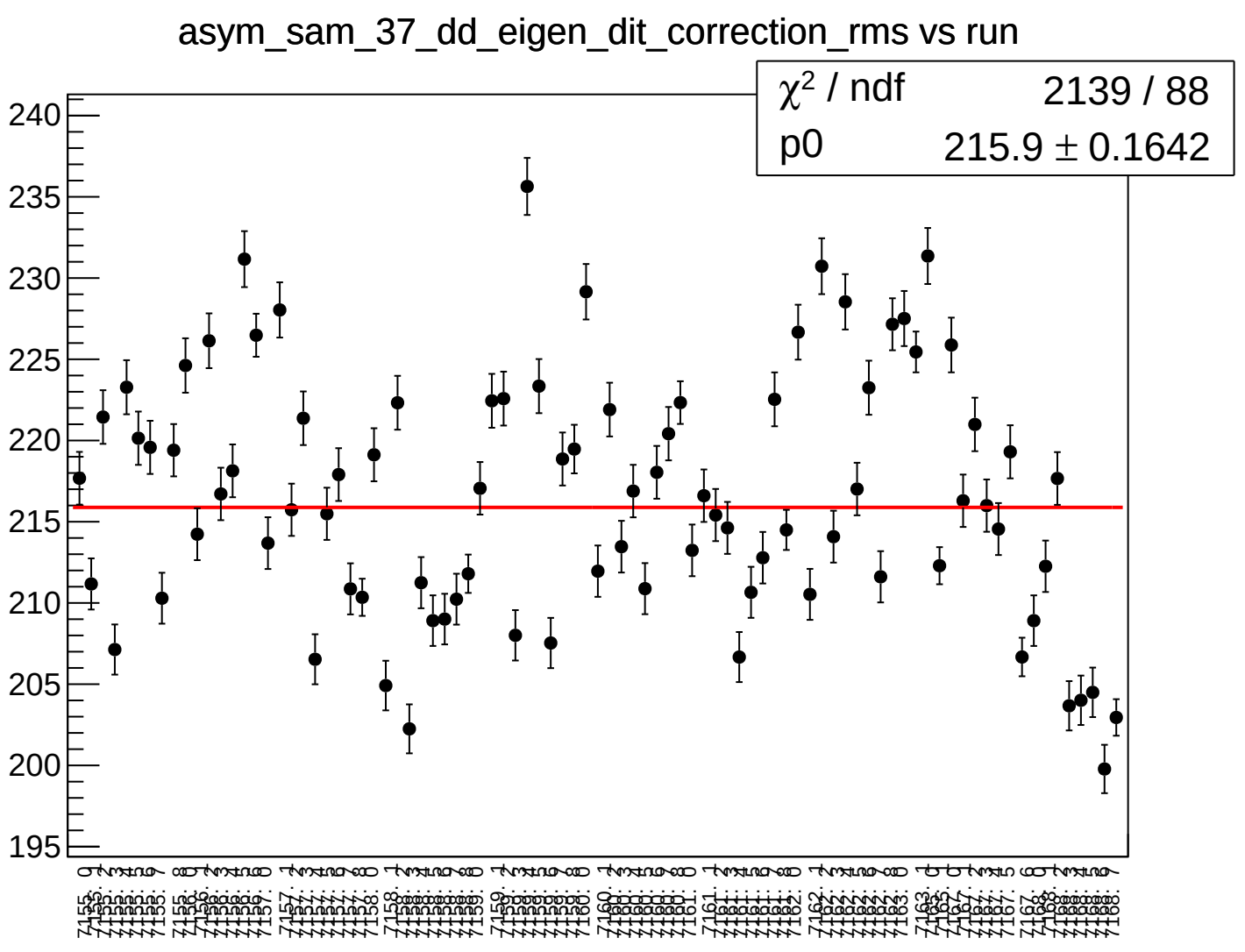

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 2139 / 88
p0 215.9 ± 0.1642
240
235
230
225
220
215
210
205
200
195

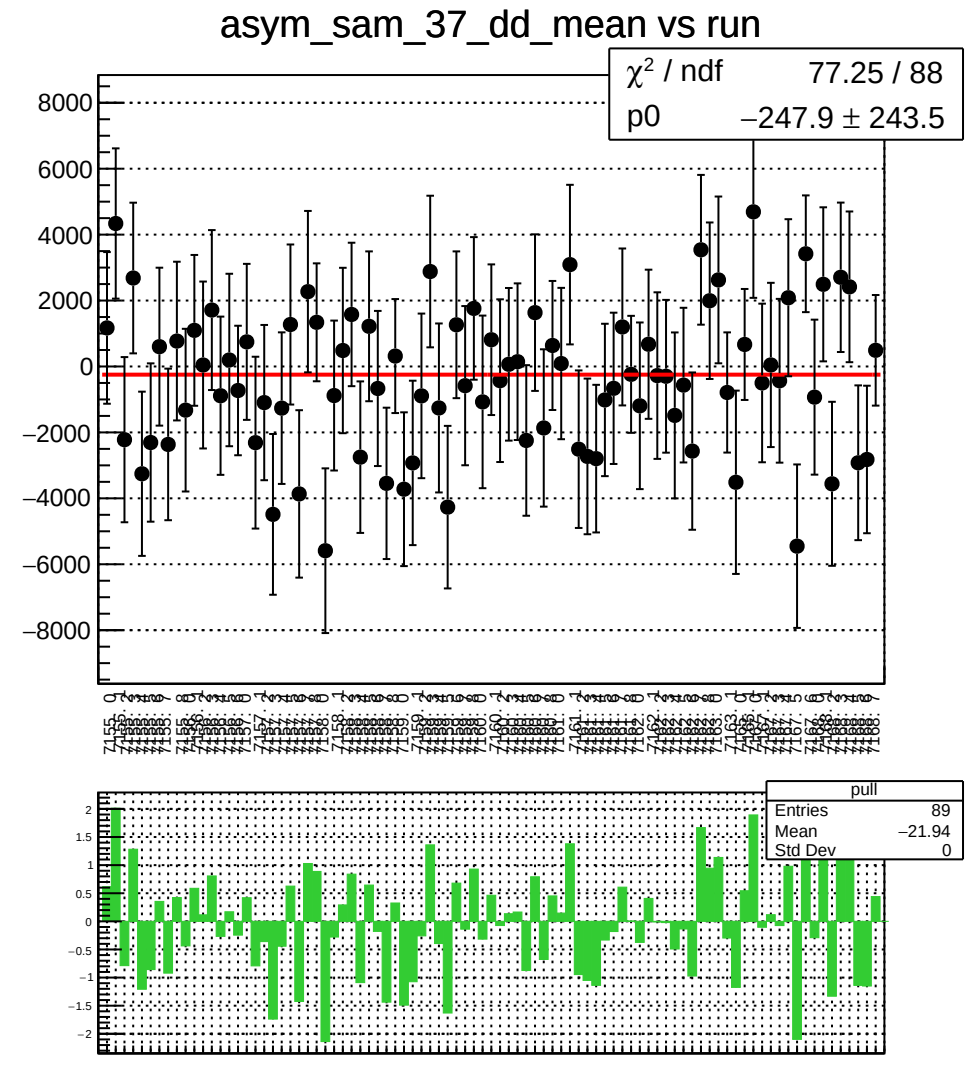

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 78.99 / 88
p0 4.978 ± 45.98
pull
Entries 89
Mean 45.6
Std Dev 0

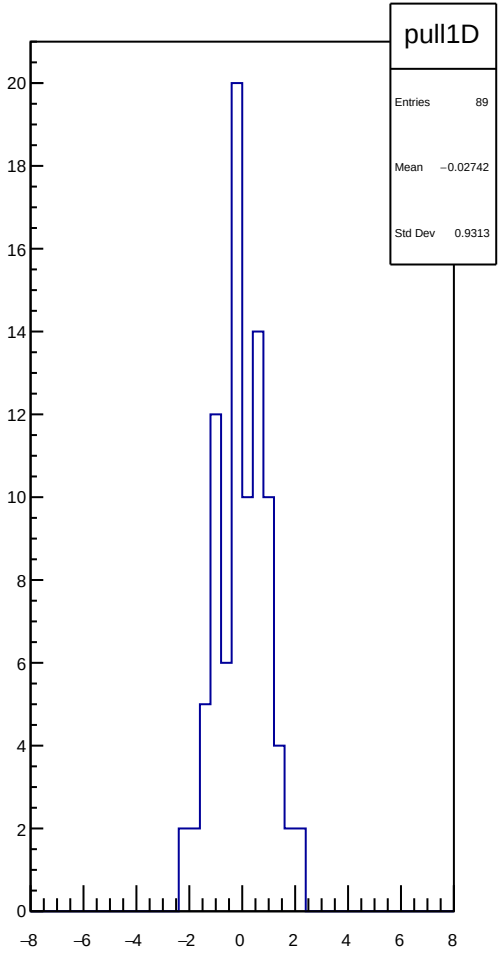

pull1D
Entries 89
Mean −0.02154
Std Dev 0.9419

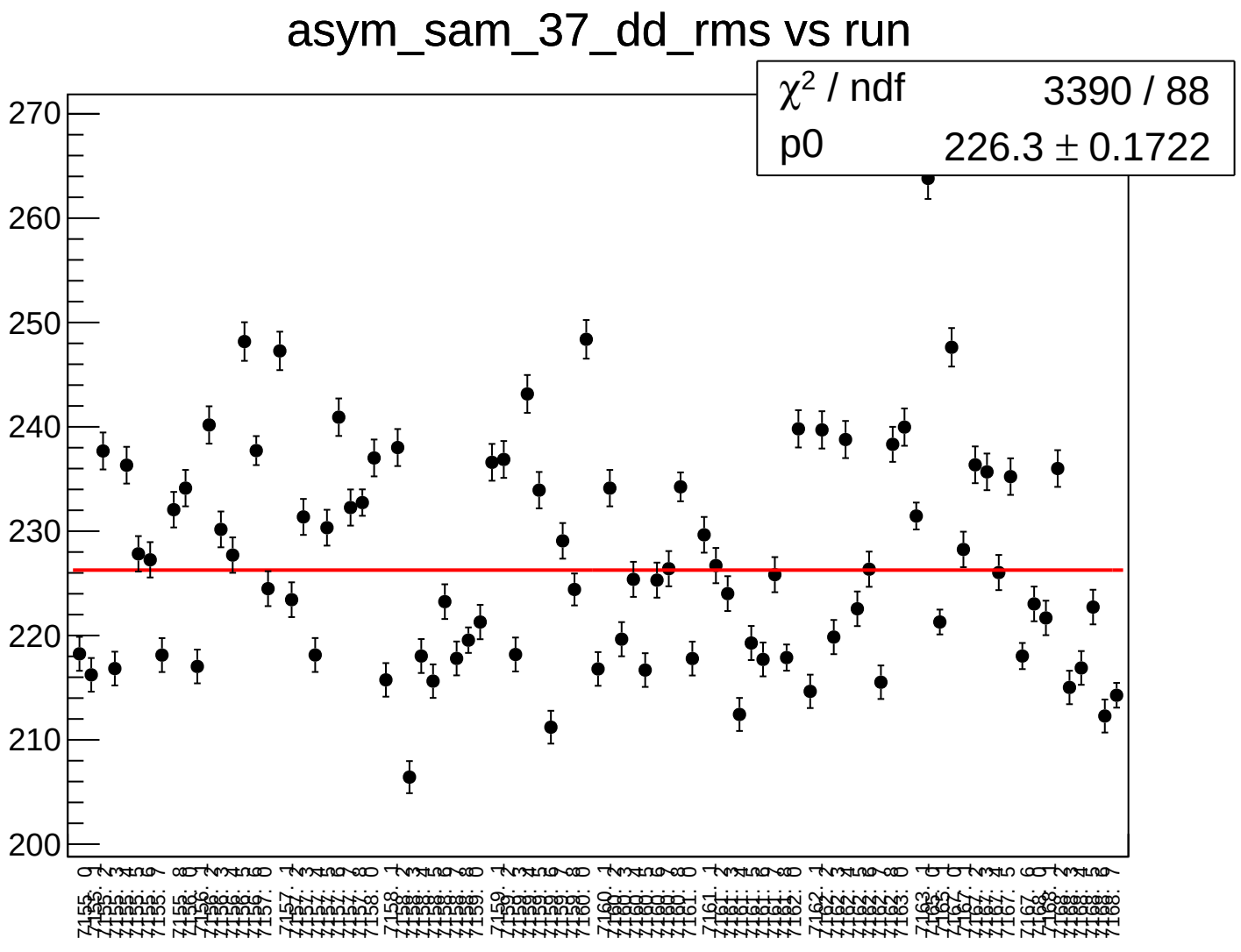

eigen_dit_asym_sam_37_dd_rms vs run
χ^2 / ndf 4684 / 88
p0 42.71 ± 0.03251
60
55
50
45
40

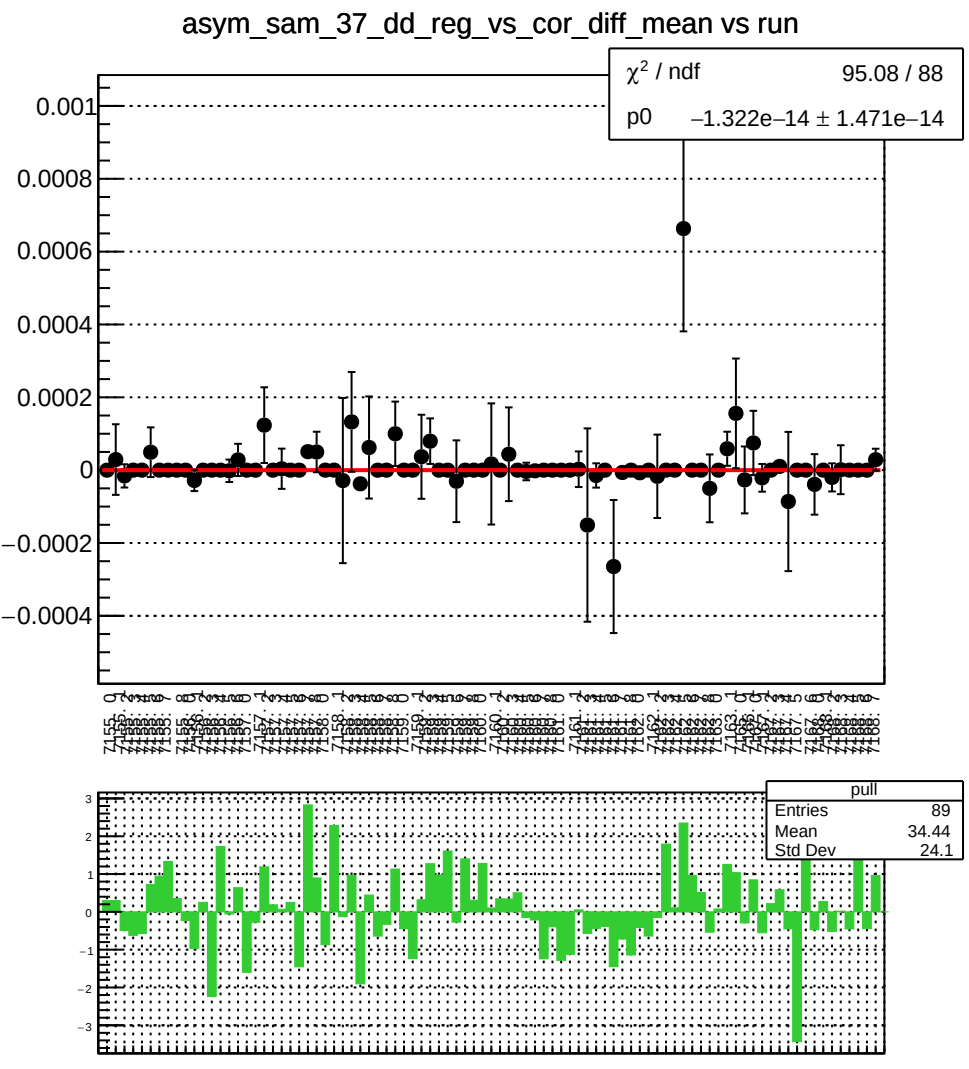

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 68.62 / 88
p0 268.7 ± 232.3
pull
Entries 89
Mean −51.02
Std Dev 0
pull1D
Entries 89
Mean 0.02094
Std Dev 0.8778

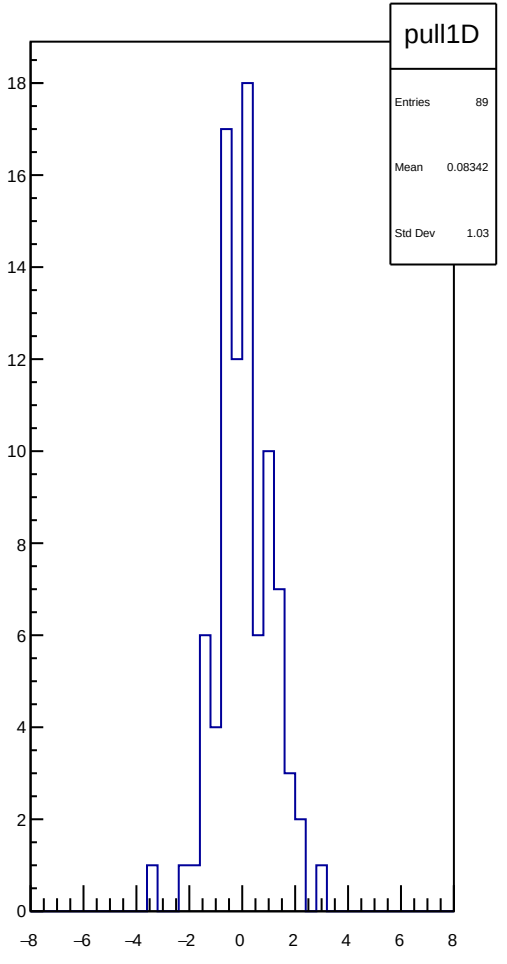

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 2139 / 88
p0 215.9 ± 0.1642
240
235
230
225
220
215
210
205
200
195

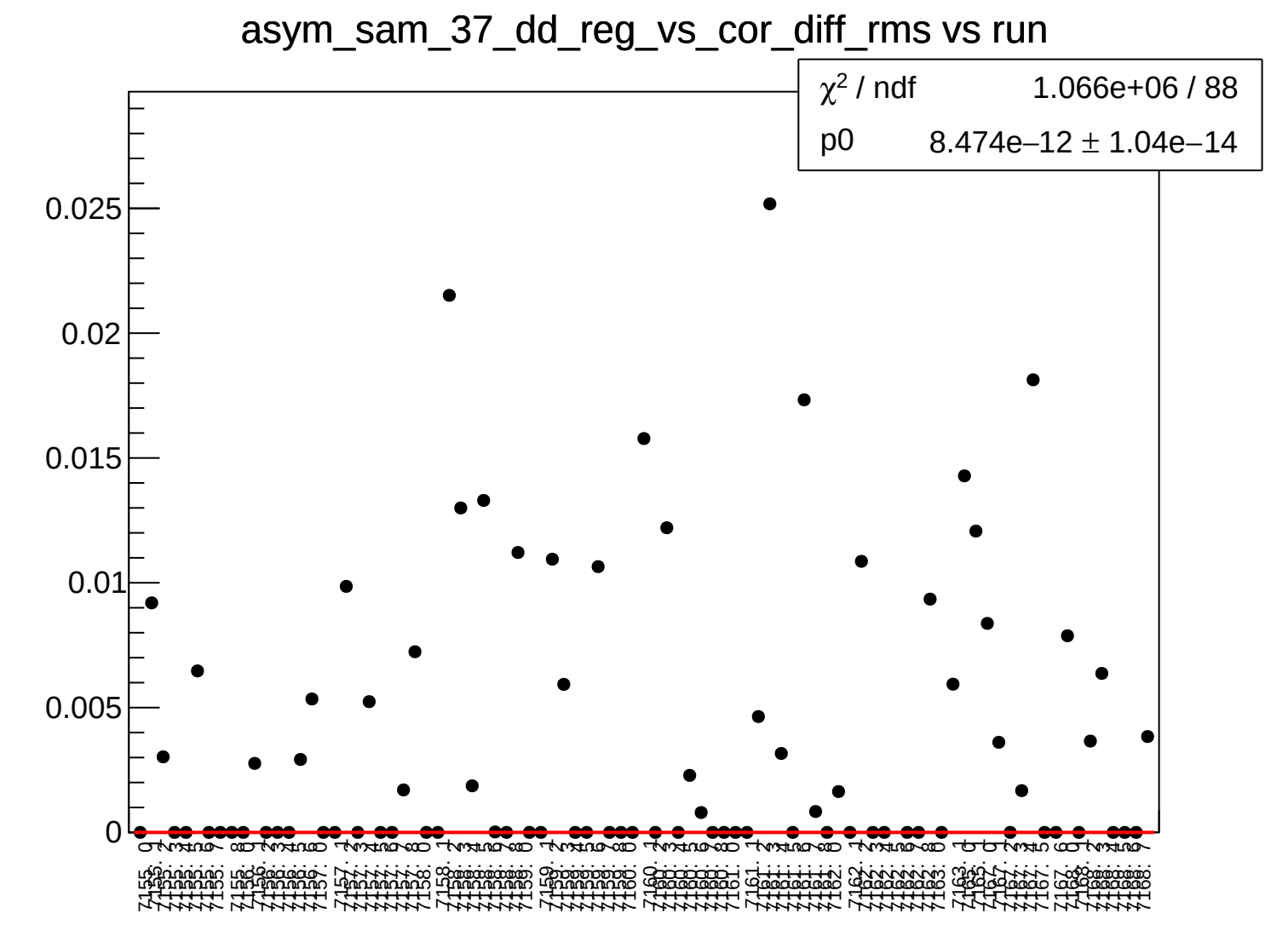

asym_sam_37_dd_mean vs run
χ² / ndf 77.25 / 88
p0 −247.9 ± 243.5
pull
Entries 89
Mean −21.94
Std Dev 0

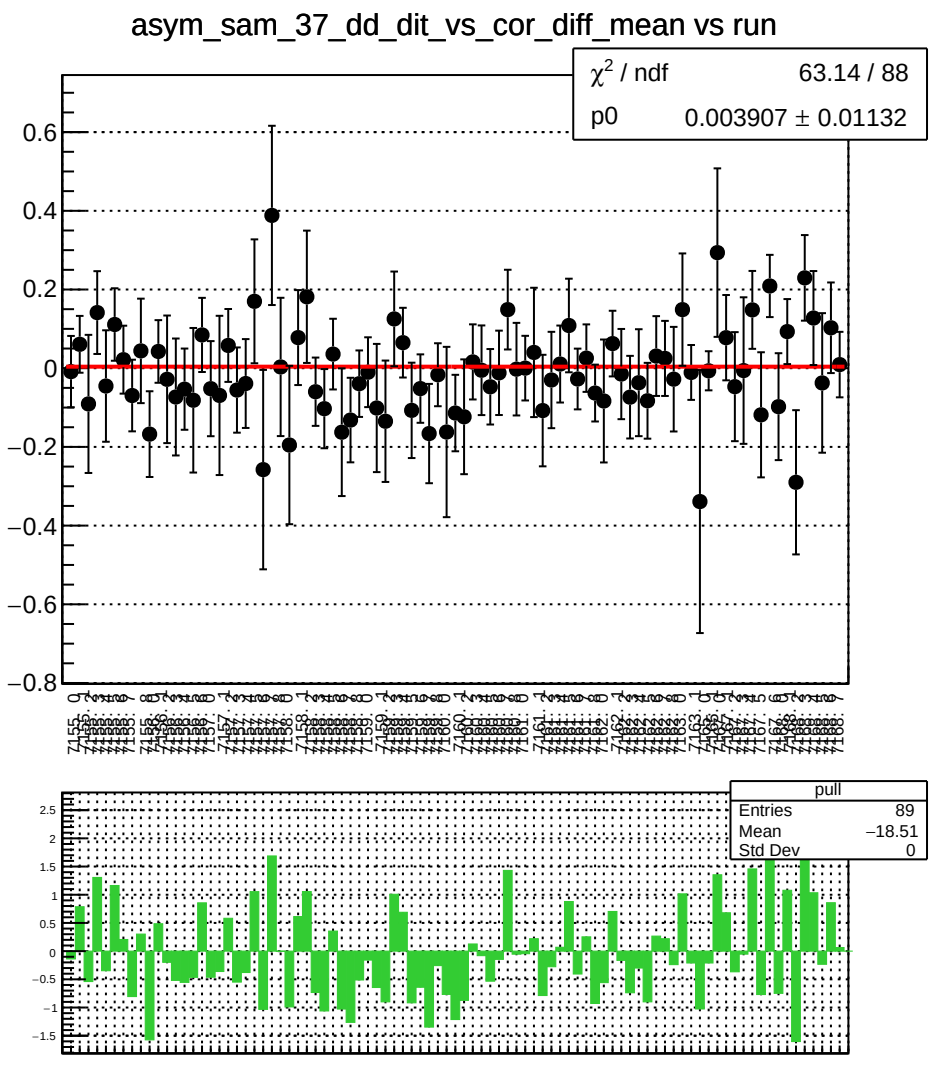

pull1D
Entries 89
Mean −0.02742
Std Dev 0.9313

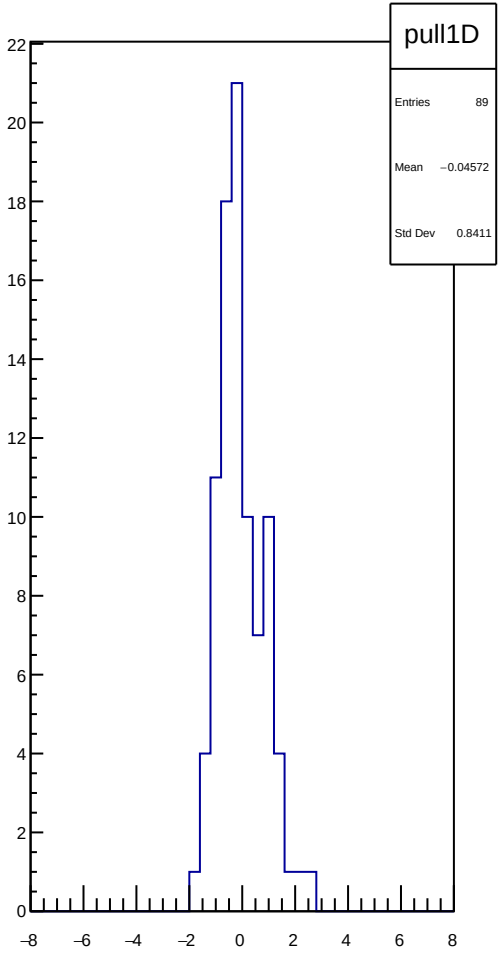

asym_sam_37_dd_rms vs run
χ² / ndf 3390 / 88
p0 226.3 ± 0.1722
270
260
250
240
230
220
210
200

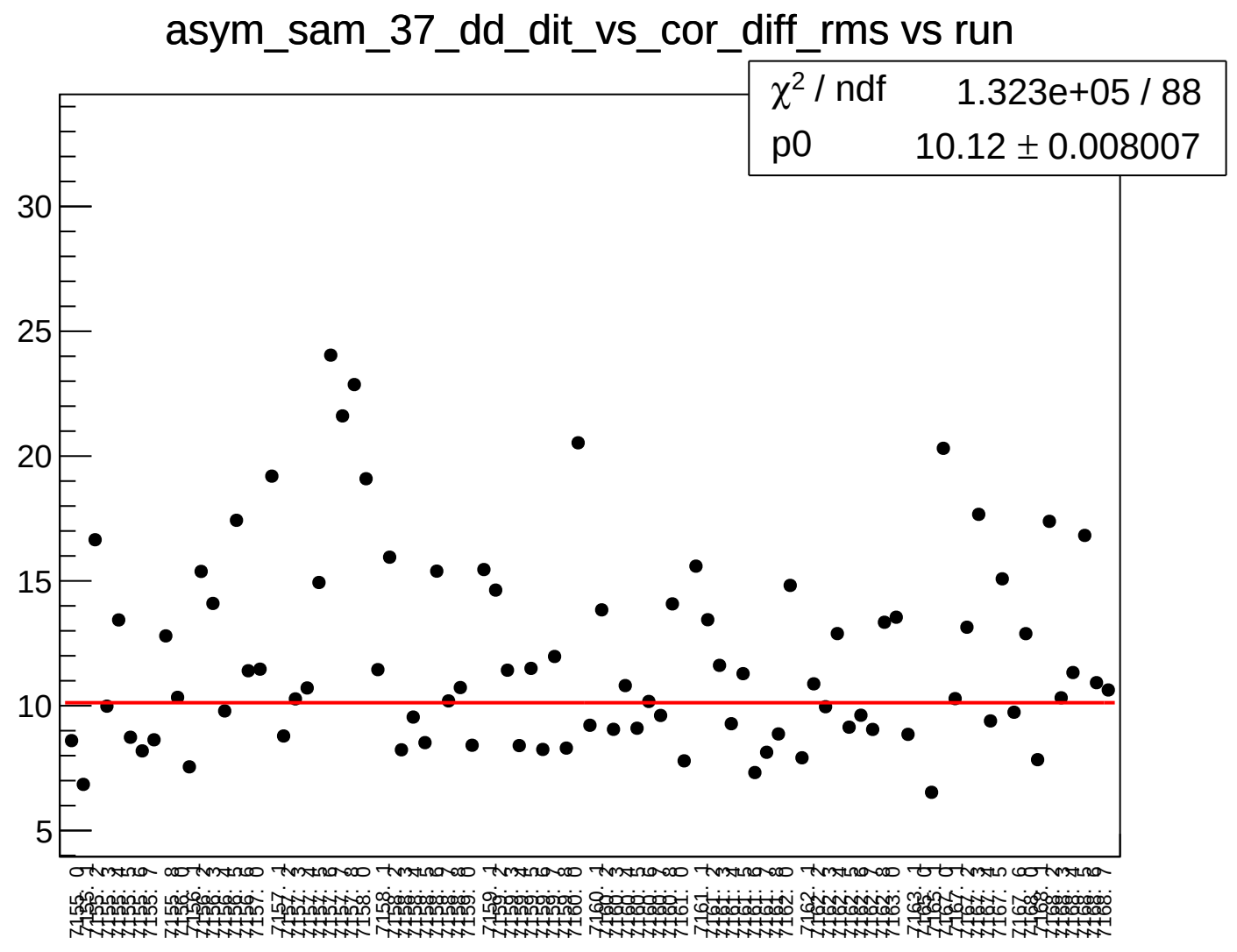

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 95.08 / 88
p0 −1.322e−14 ± 1.471e−14
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 89
Mean 34.44
Std Dev 24.1
3
2
1
0
−1
−2
−3

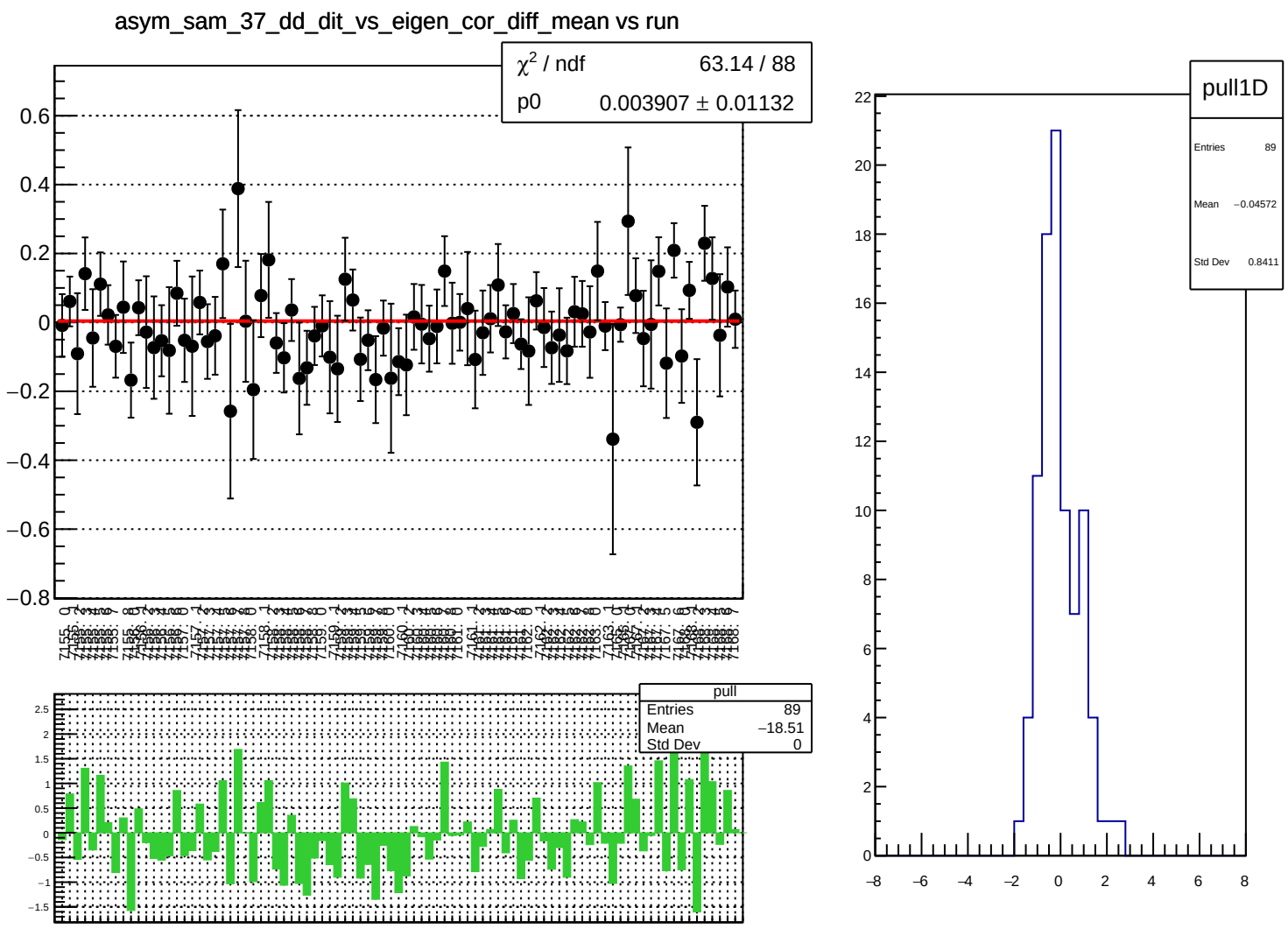

pull1D
Entries 89
Mean 0.08342
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

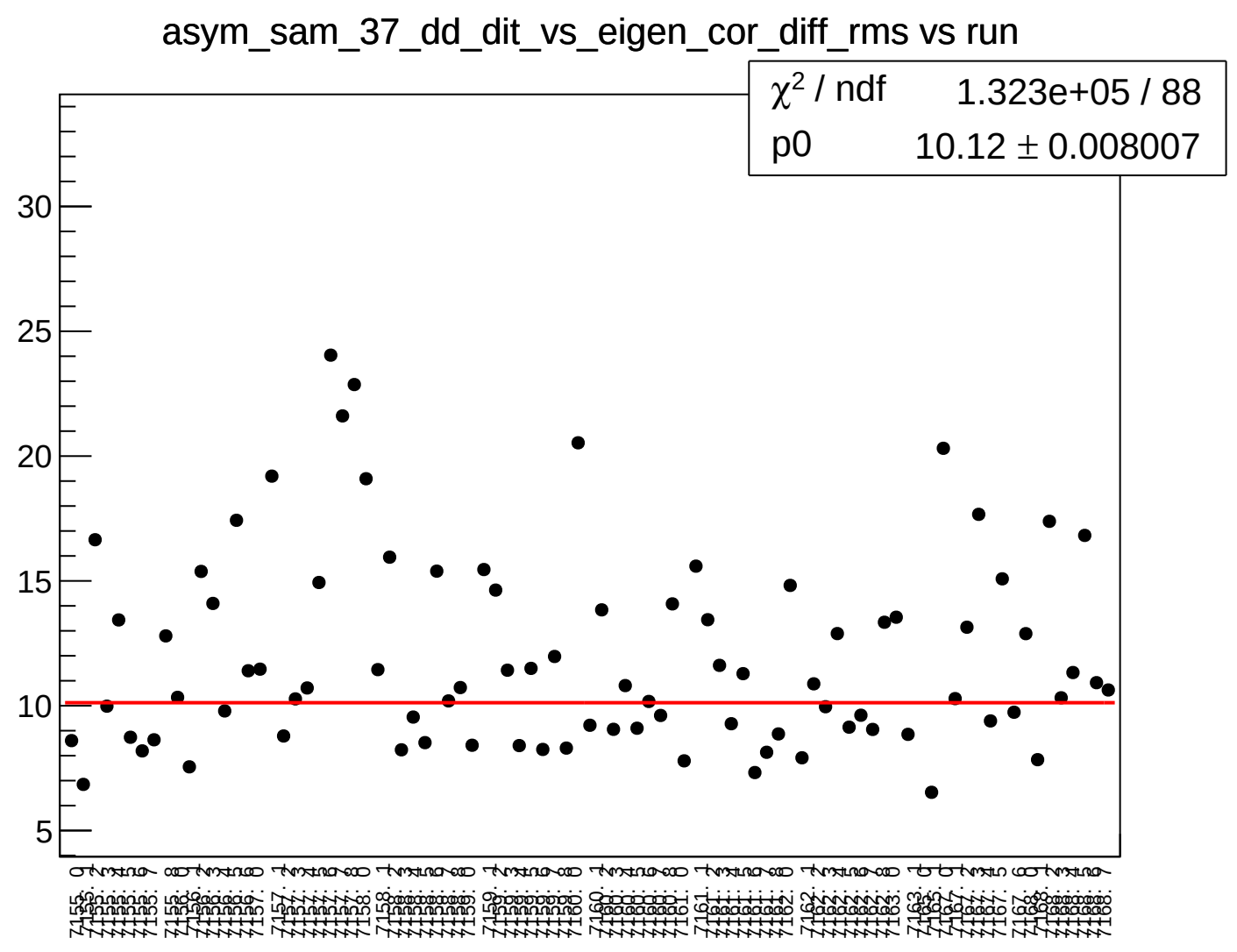

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.066e+06 / 88
p0 8.474e−12 ± 1.04e−14
0.025
0.02
0.015
0.01
0.005
0

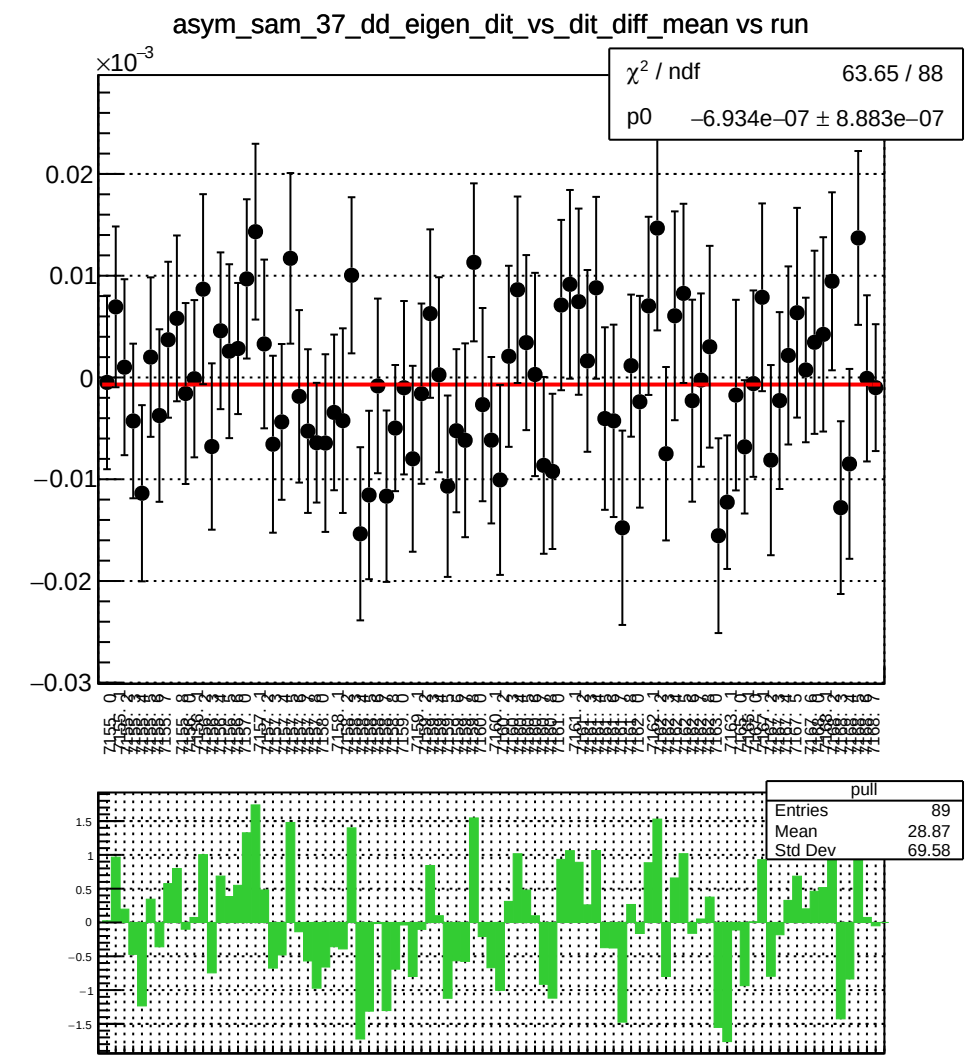

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 63.14 / 88
p0 0.003907 ± 0.01132
pull
Entries 89
Mean −18.51
Std Dev 0

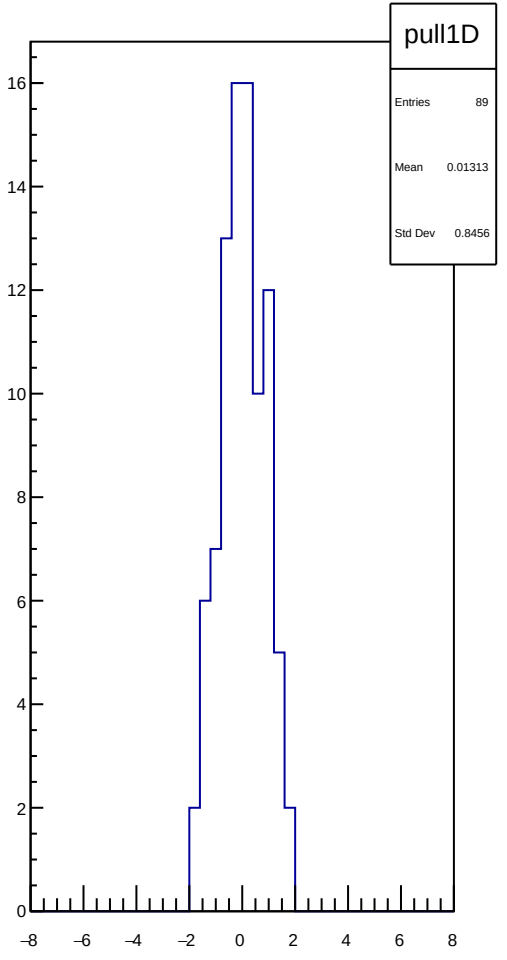

pull1D
Entries 89
Mean −0.04572
Std Dev 0.8411

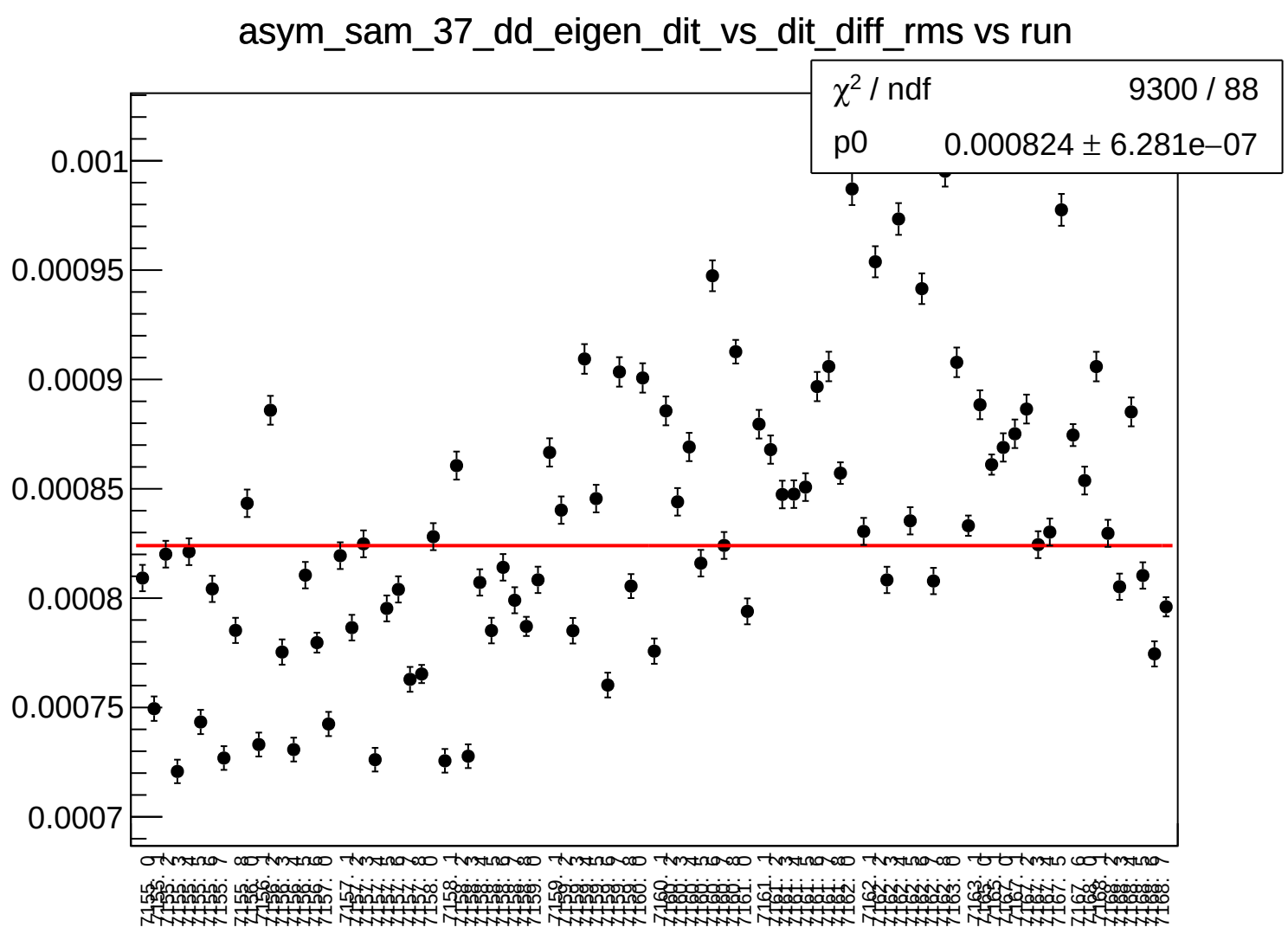

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.323e+05 / 88
p0 10.12 ± 0.008007
30
25
20
15
10
5

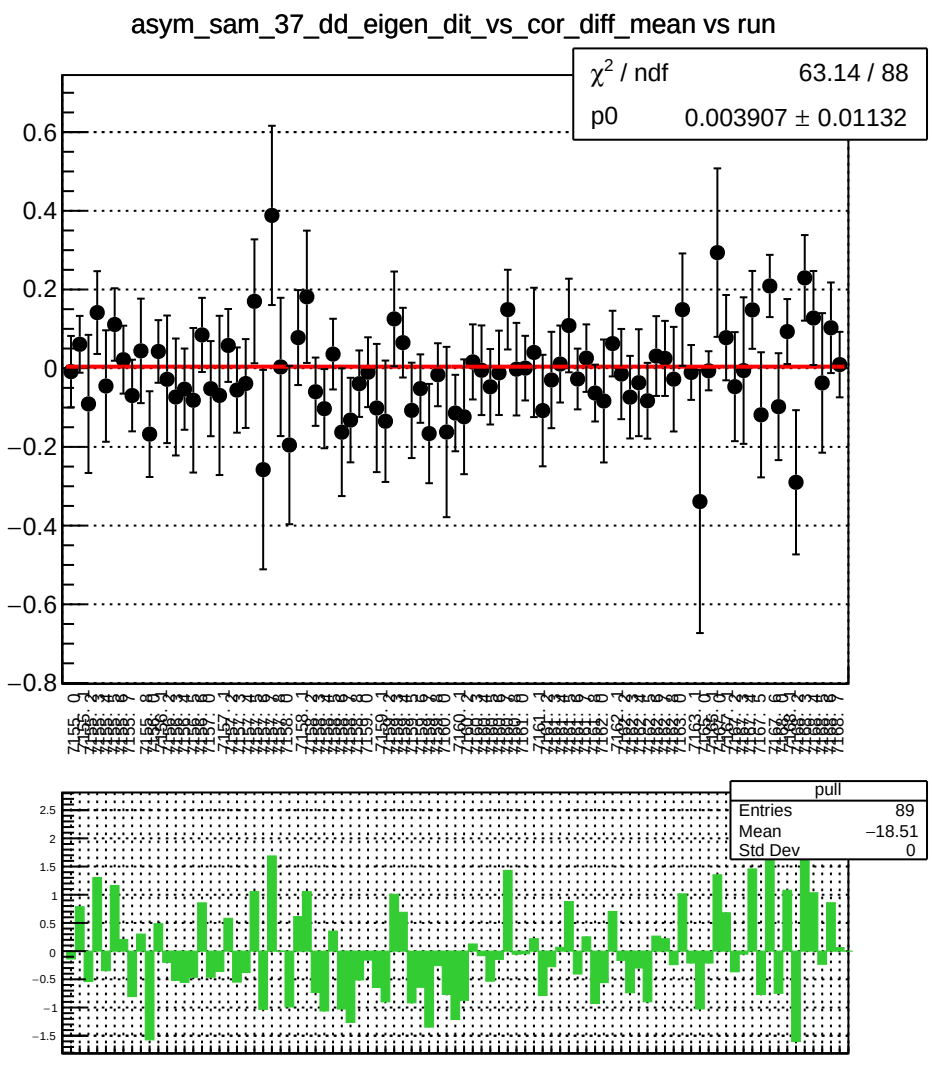

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.14 / 88
p0 0.003907 ± 0.01132
pull
Entries 89
Mean −18.51
Std Dev 0
pull1D
Entries 89
Mean −0.04572
Std Dev 0.8411

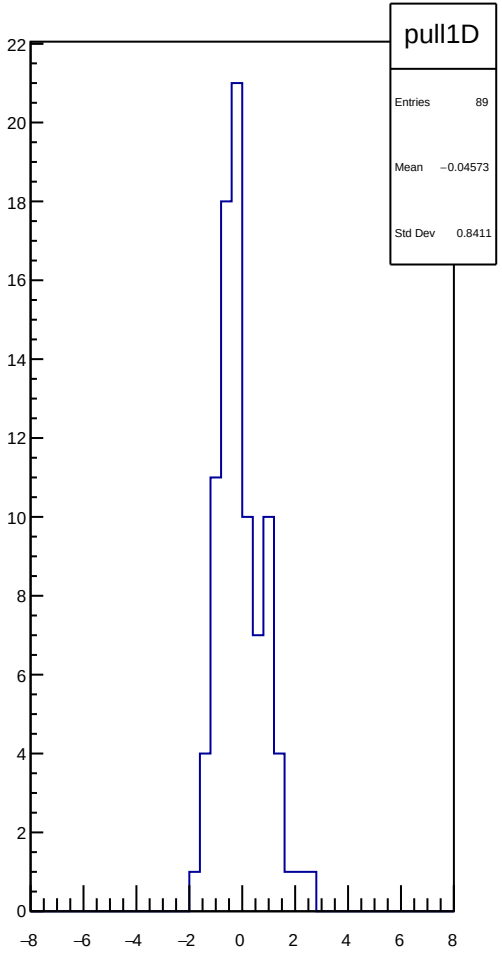

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.323e+05 / 88
p0 10.12 ± 0.008007
30
25
20
15
10
5

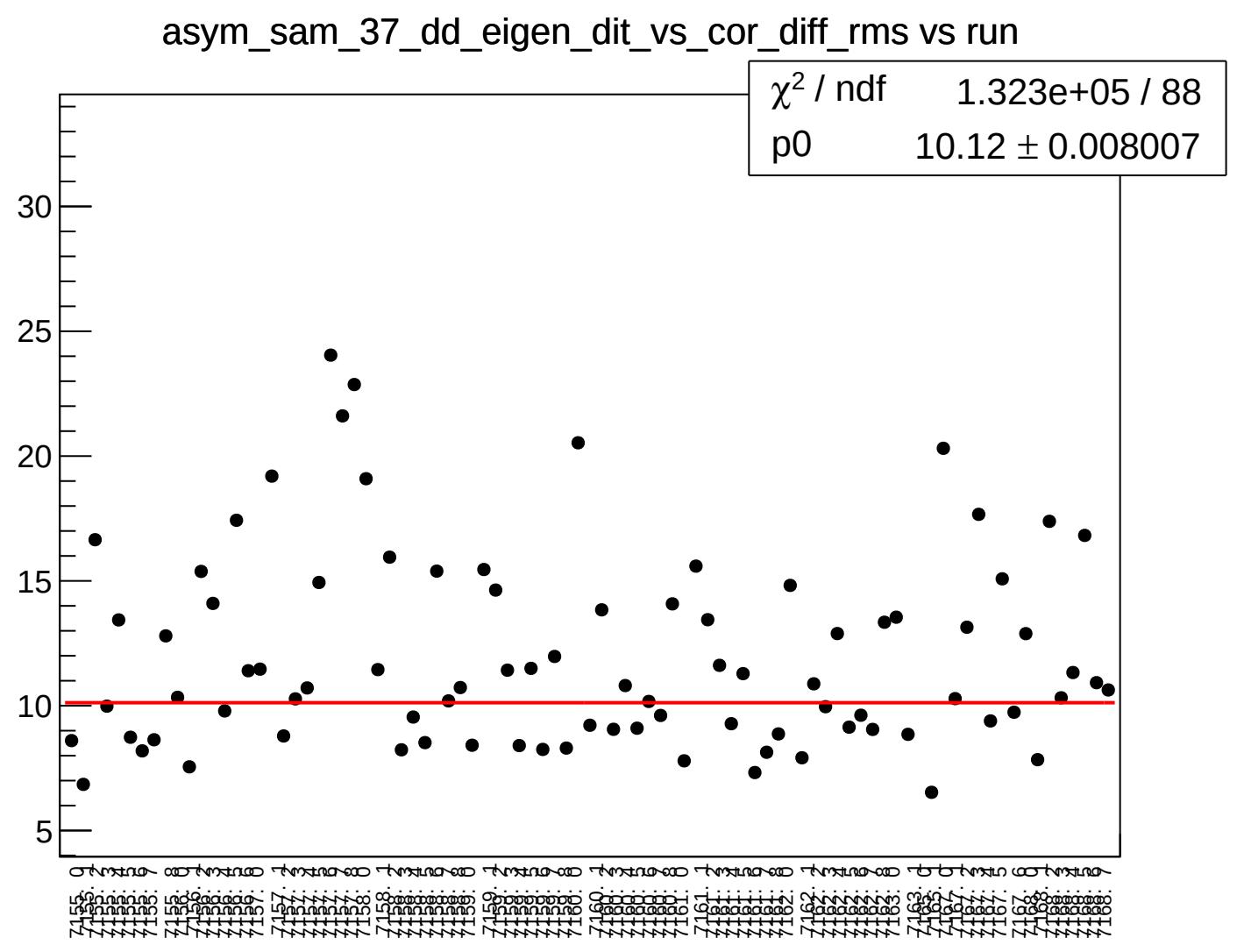

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 63.65 / 88
p0 −6.934e−07 ± 8.883e−07
pull
Entries 89
Mean 28.87
Std Dev 69.58

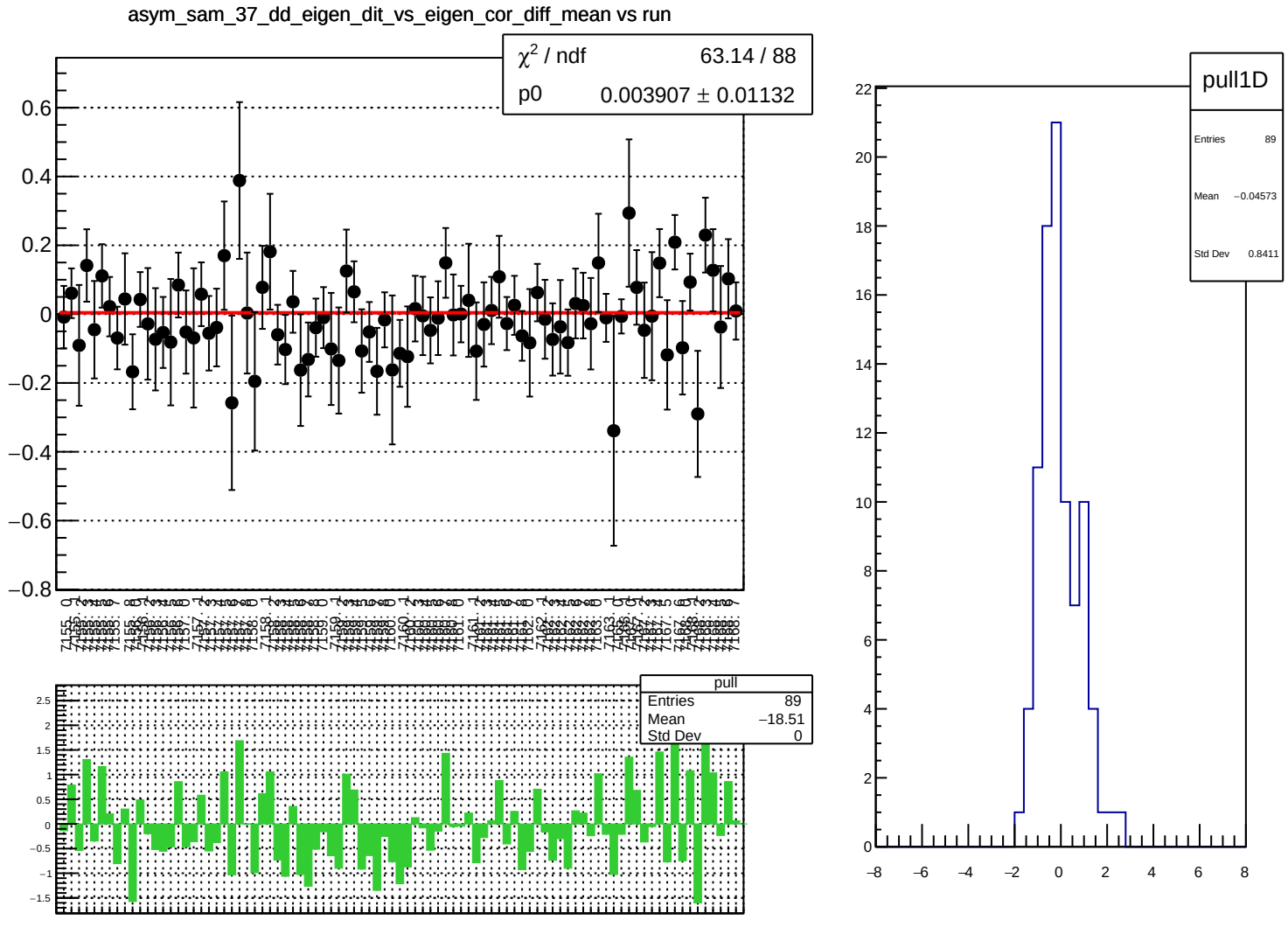

pull1D
Entries 89
Mean 0.01313
Std Dev 0.8456

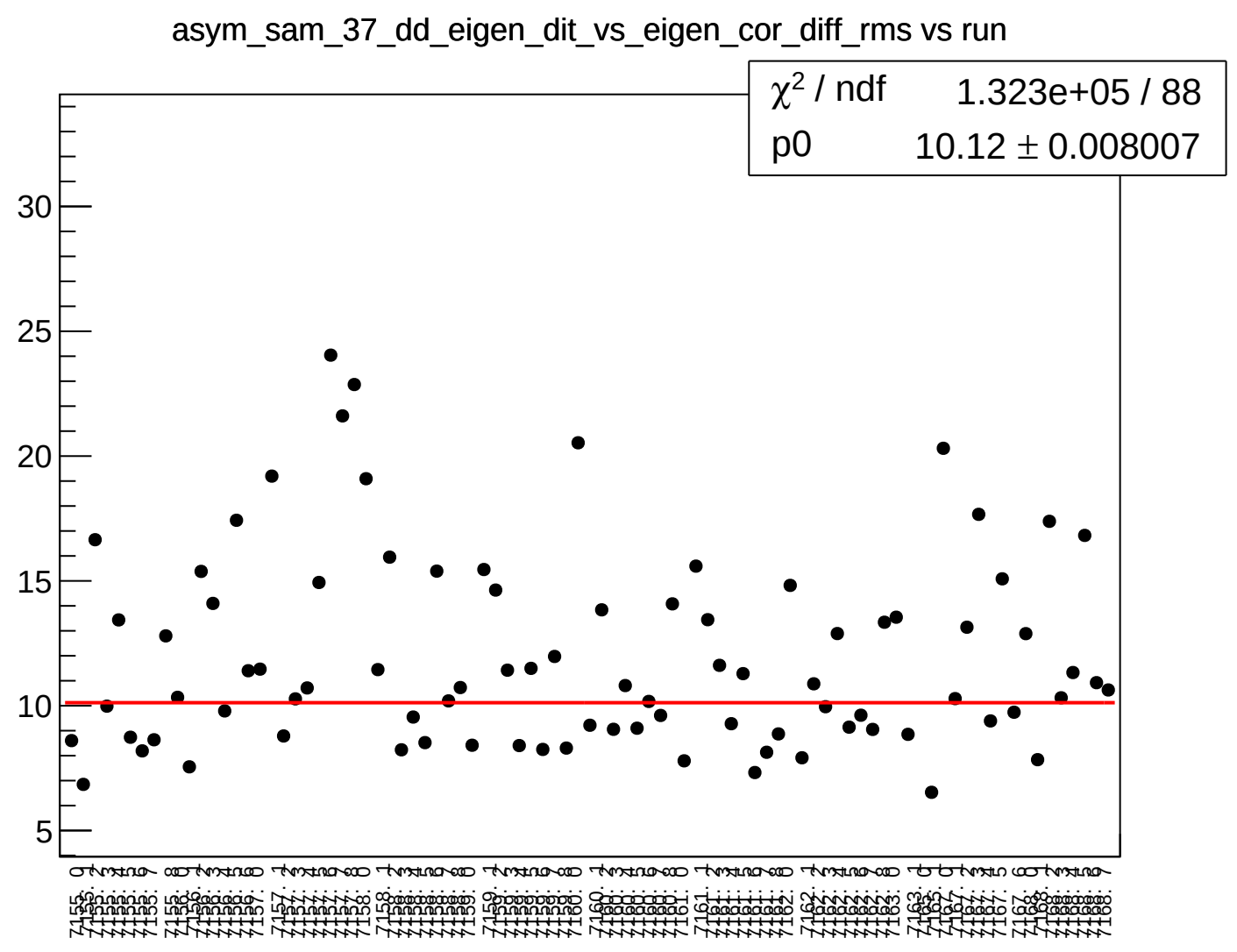

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9300 / 88
p0 0.000824 ± 6.281e−07
0.001
0.00095
0.0009
0.00085
0.0008
0.00075
0.0007

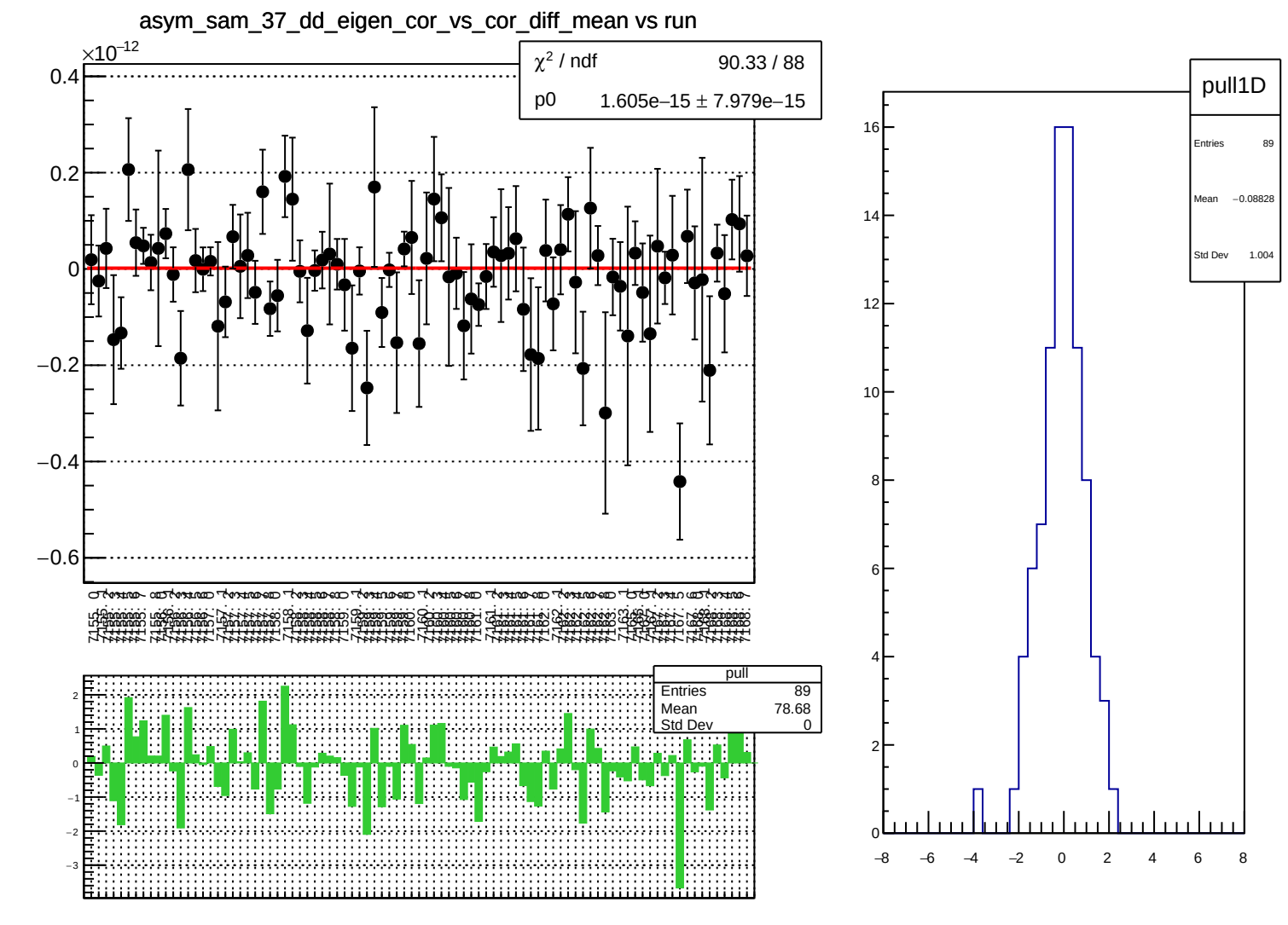

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 63.14 / 88
p0 0.003907 ± 0.01132
pull
Entries 89
Mean −18.51
Std Dev 0

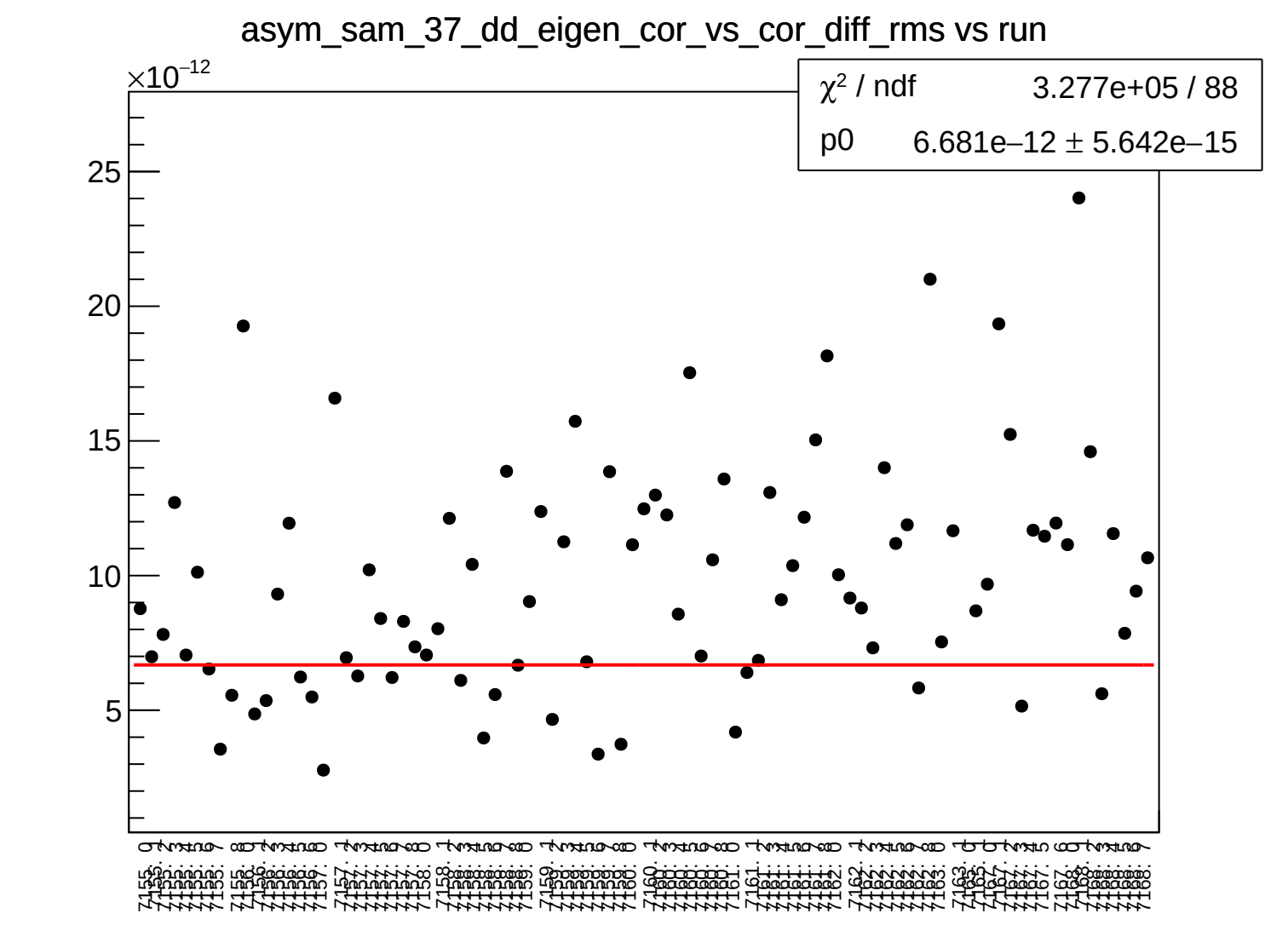

pull1D
Entries 89
Mean −0.04573
Std Dev 0.8411

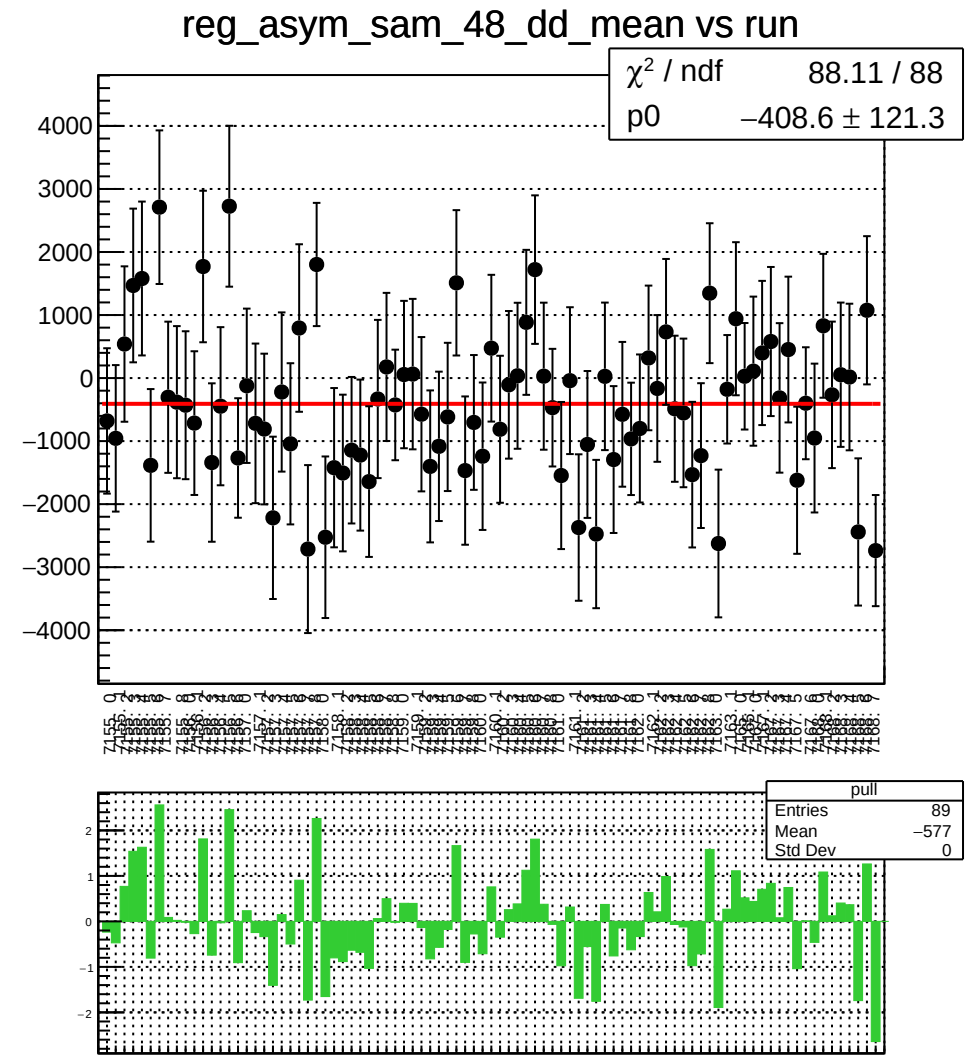

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.323e+05 / 88
p0 10.12 ± 0.008007
30
25
20
15
10
5

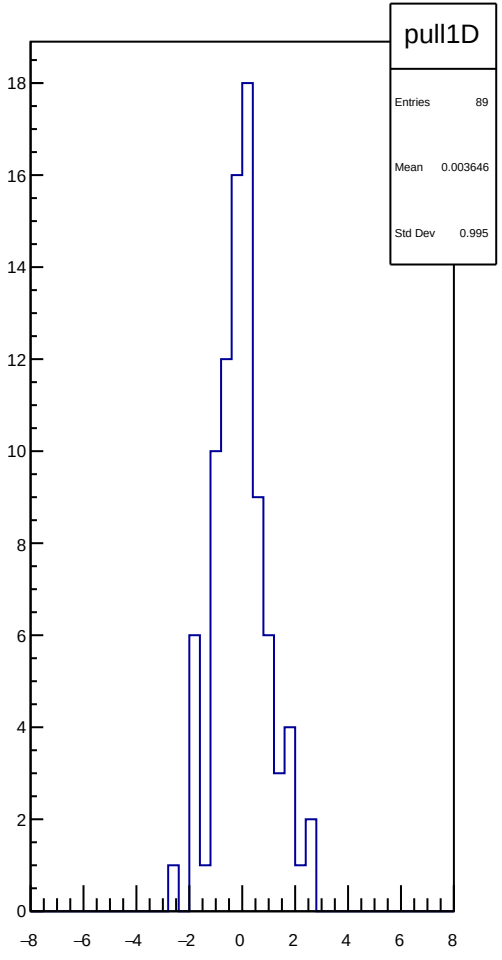

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 63.14 / 88
p0 0.003907 ± 0.01132
pull
Entries 89
Mean −18.51
Std Dev 0
pull1D
Entries 89
Mean −0.04573
Std Dev 0.8411

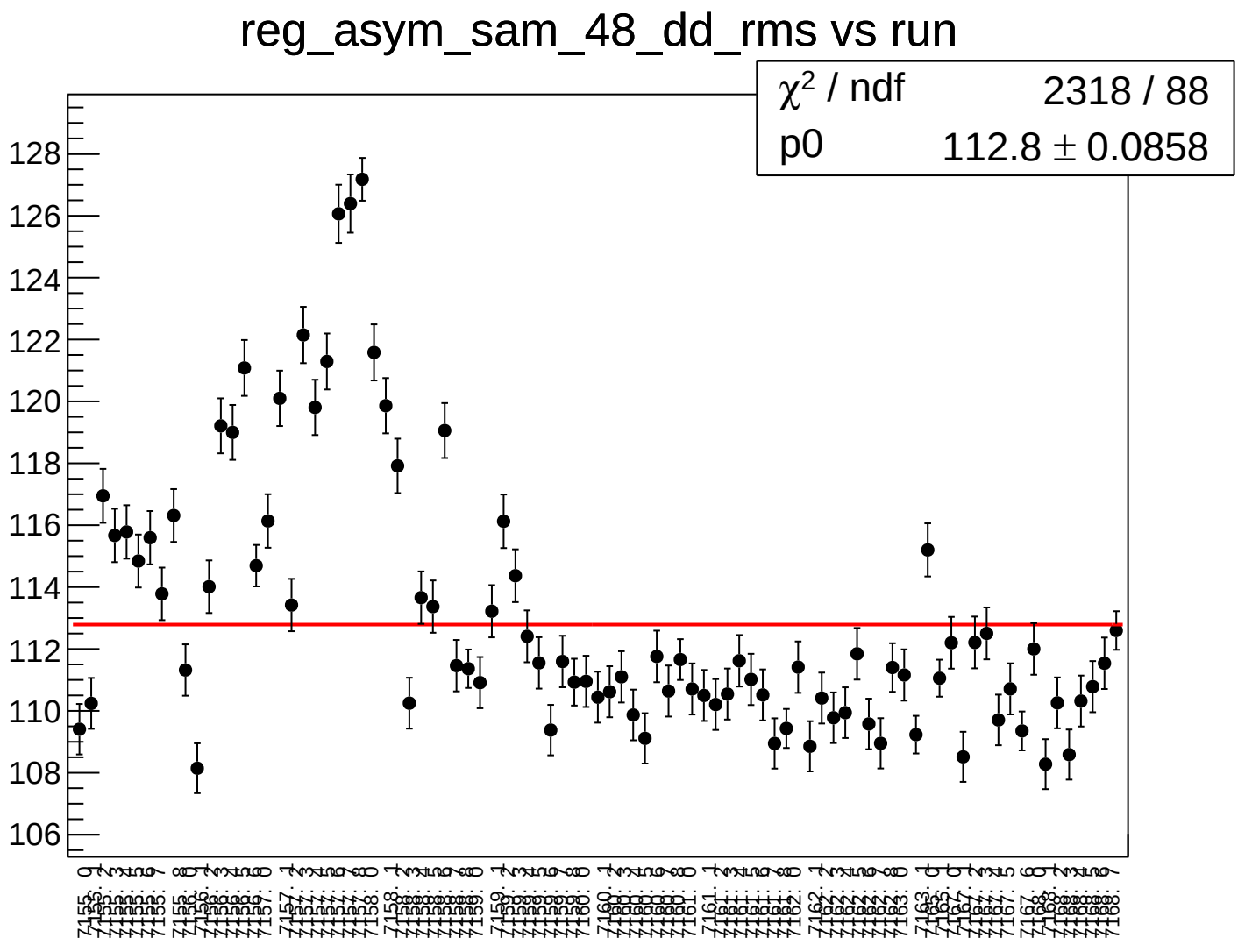

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.323e+05 / 88
p0 10.12 ± 0.008007
30
25
20
15
10
5

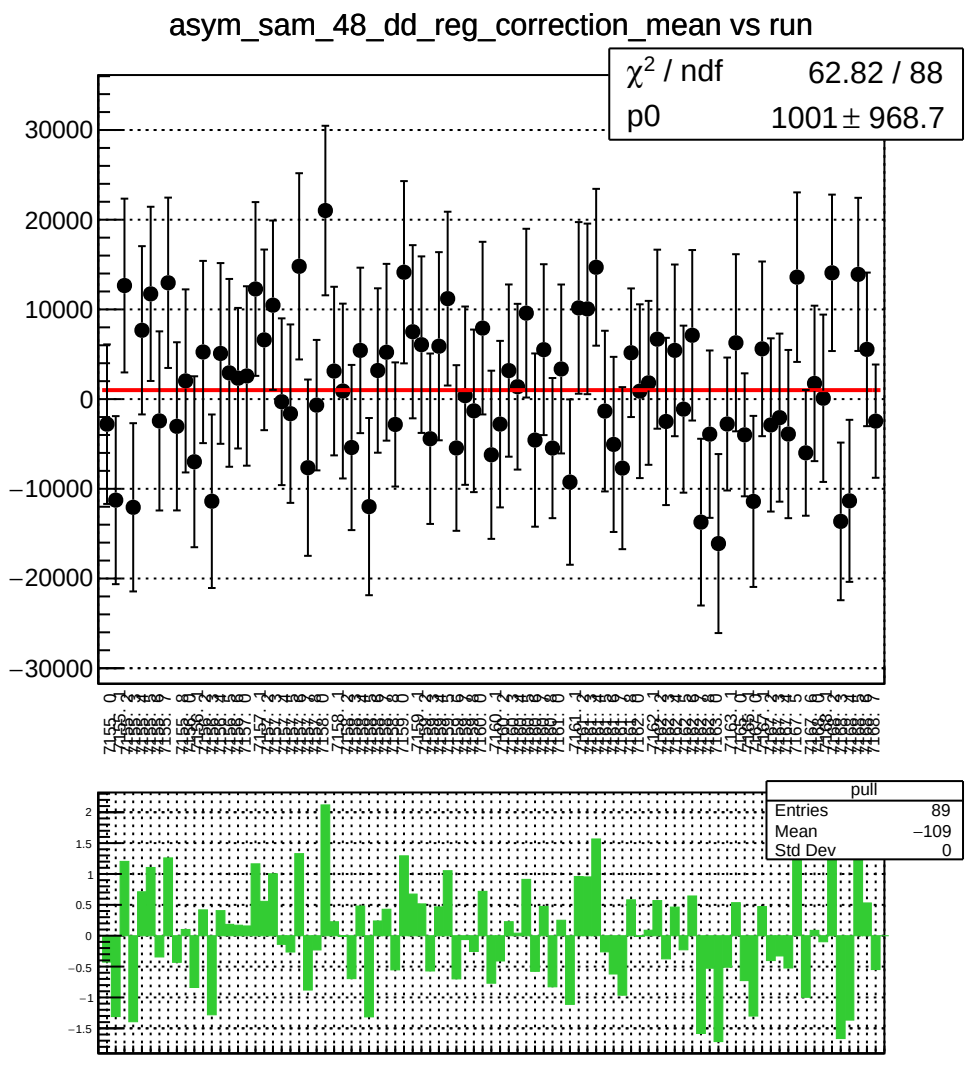

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 90.33 / 88
p0 1.605e−15 ± 7.979e−15
pull
Entries 89
Mean 78.68
Std Dev 0
pull1D
Entries 89
Mean −0.08828
Std Dev 1.004

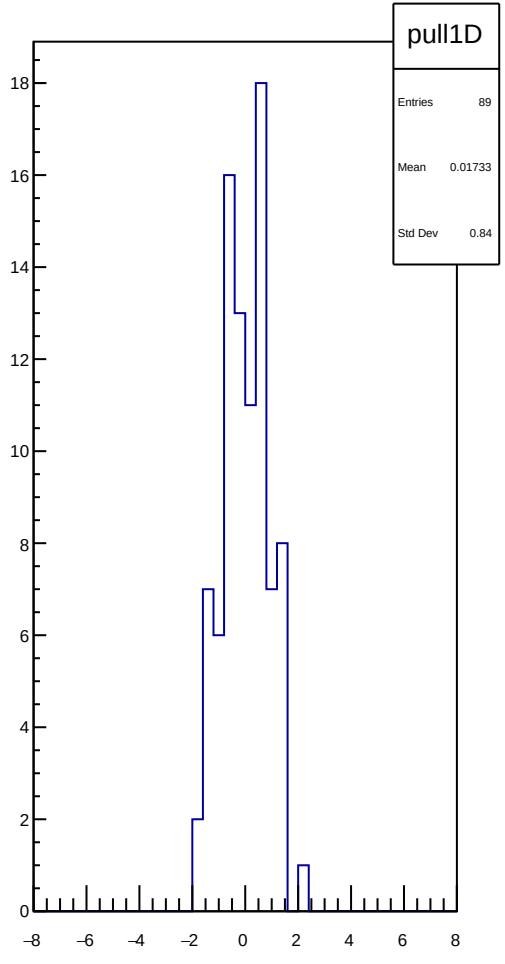

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.277e+05 / 88
p0 6.681e−12 ± 5.642e−15
25
20
15
10
5

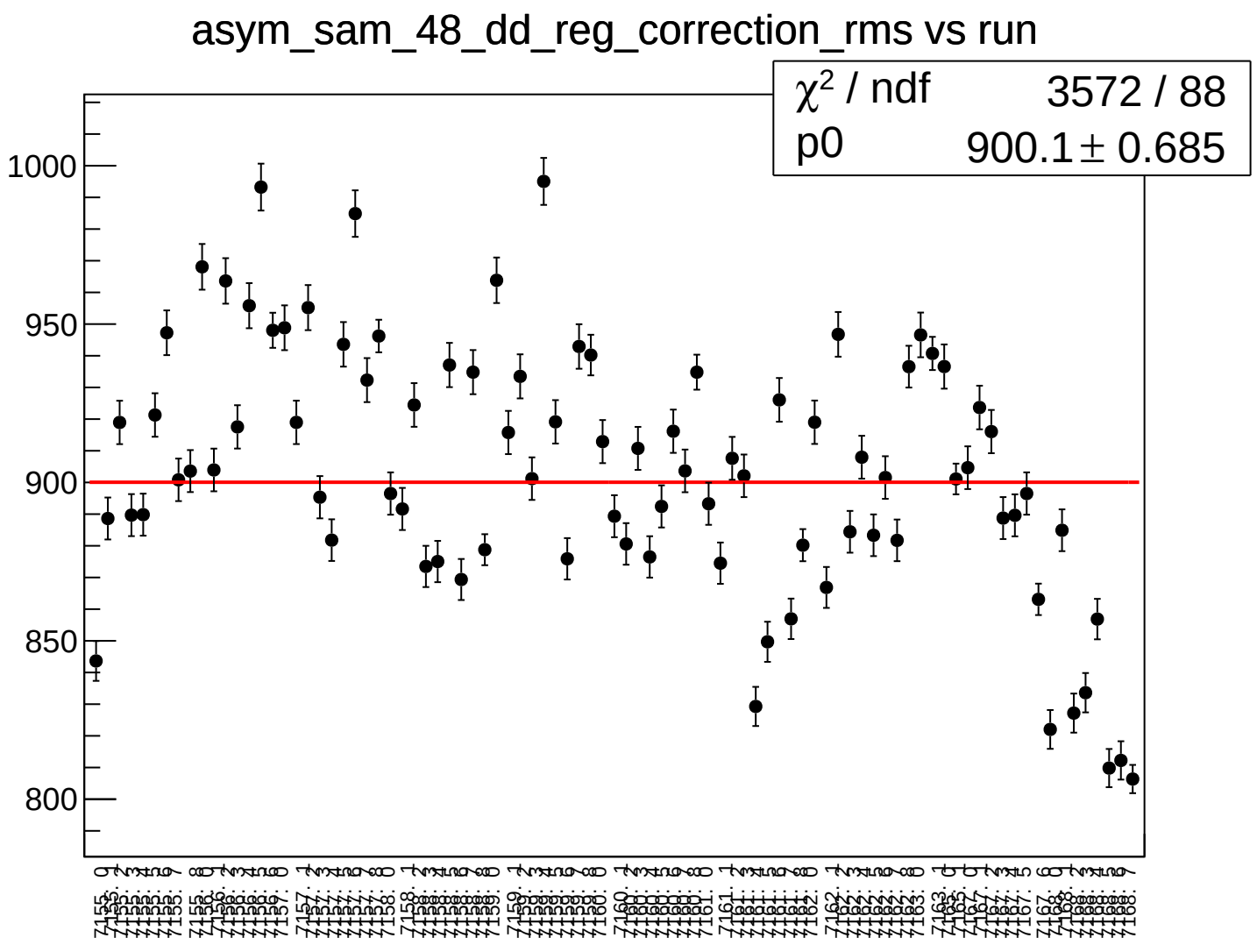

reg_asym_sam_48_dd_mean vs run
χ² / ndf 88.11 / 88
p0 −408.6 ± 121.3
pull
Entries 89
Mean −577
Std Dev 0

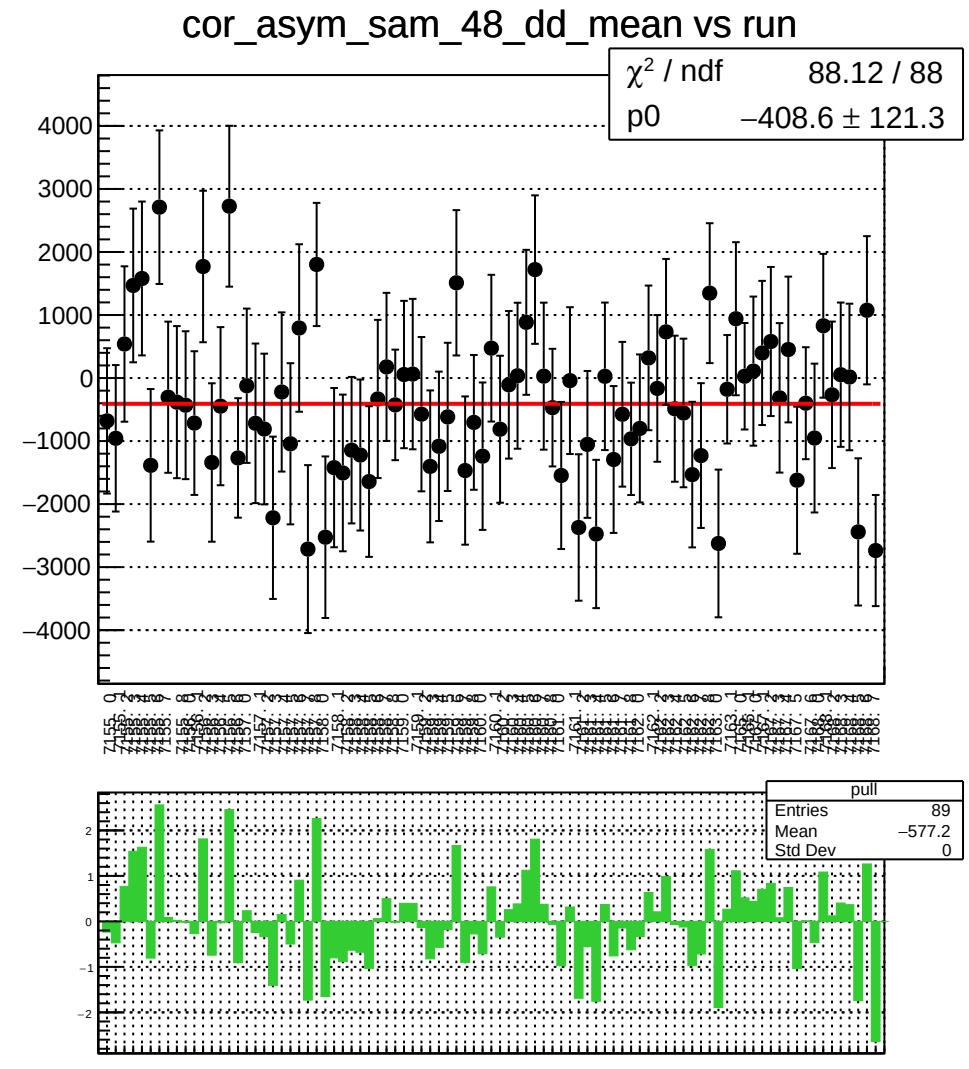

pull1D
Entries 89
Mean 0.003646
Std Dev 0.995

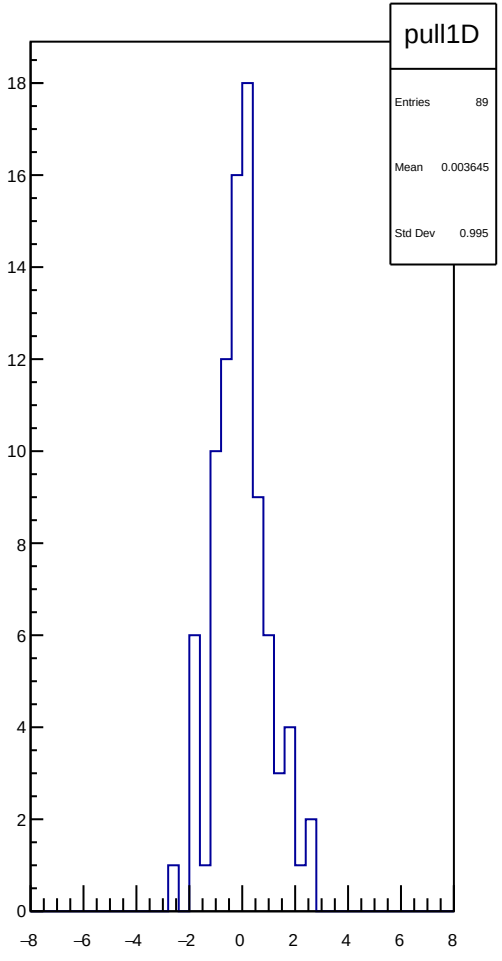

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2318 / 88
p0 112.8 ± 0.0858
128
126
124
122
120
118
116
114
112
110
108
106

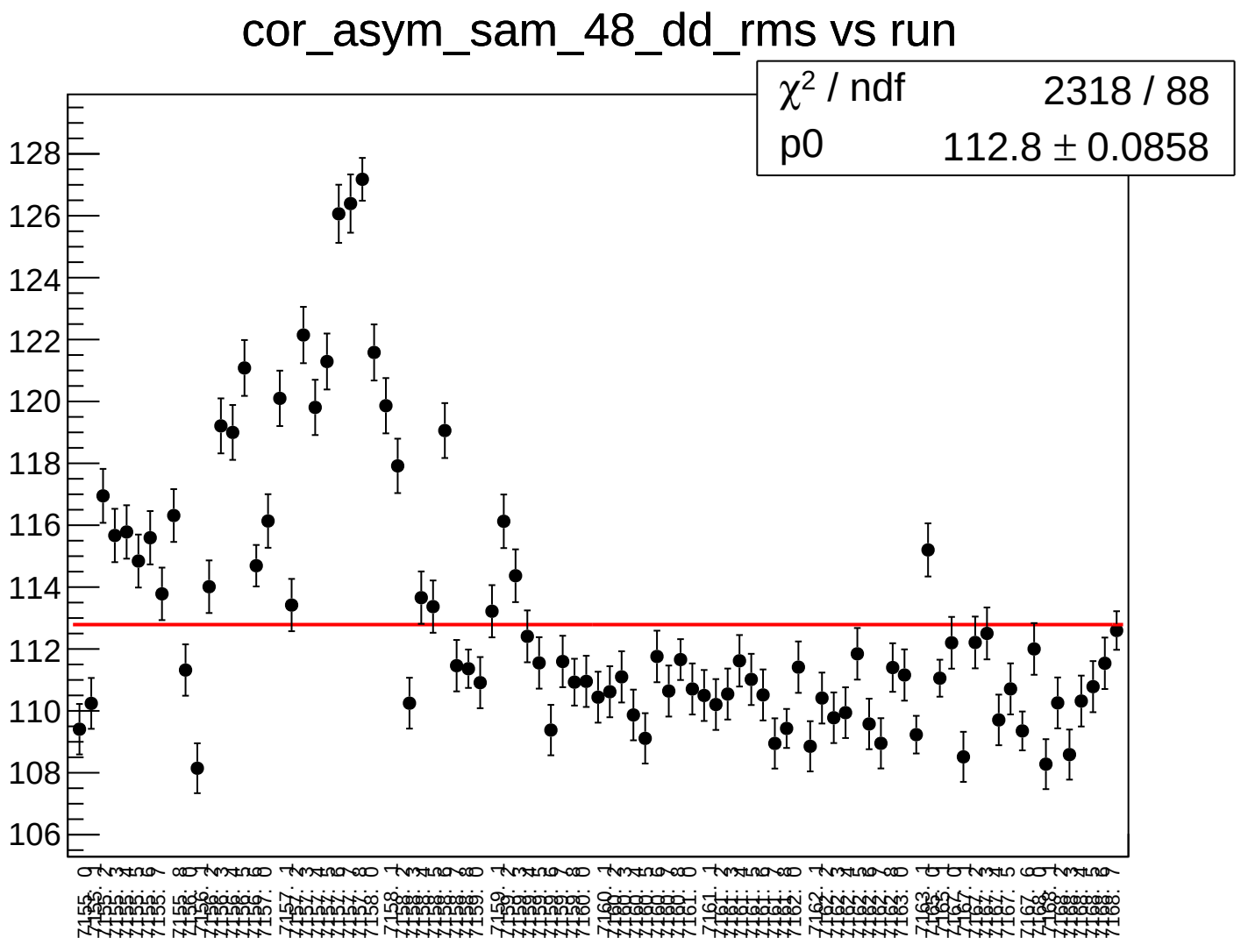

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 62.82 / 88
p0 1001 ± 968.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −109
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

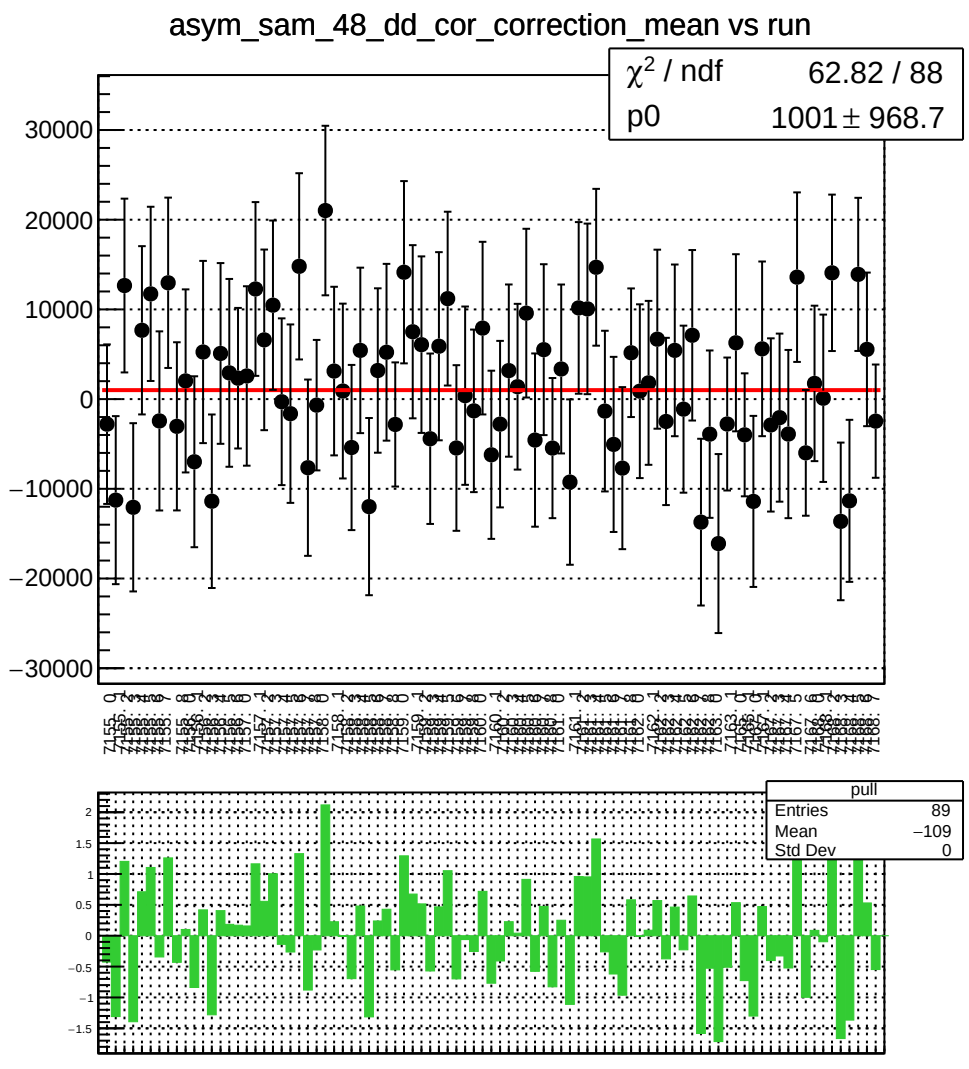

pull1D
Entries 89
Mean 0.01733
Std Dev 0.84
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

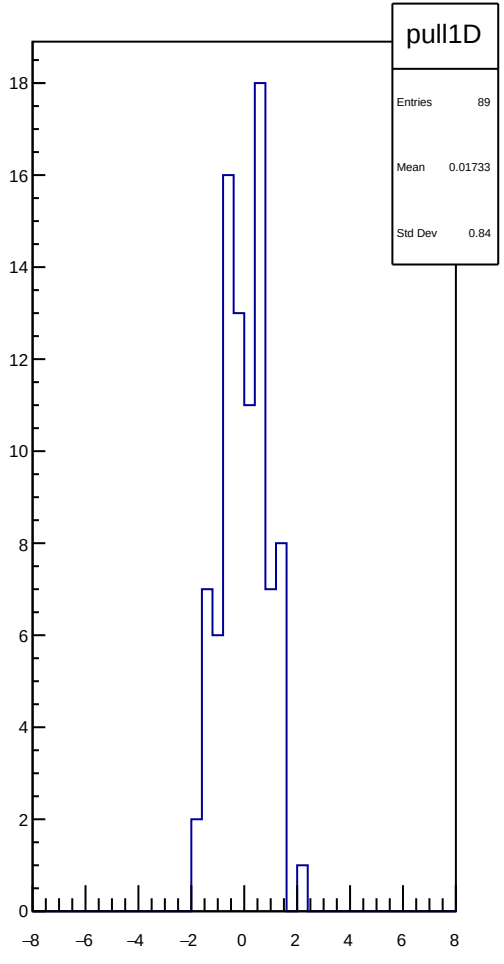

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 3572 / 88
p0 900.1 ± 0.685
1000
950
900
850
800

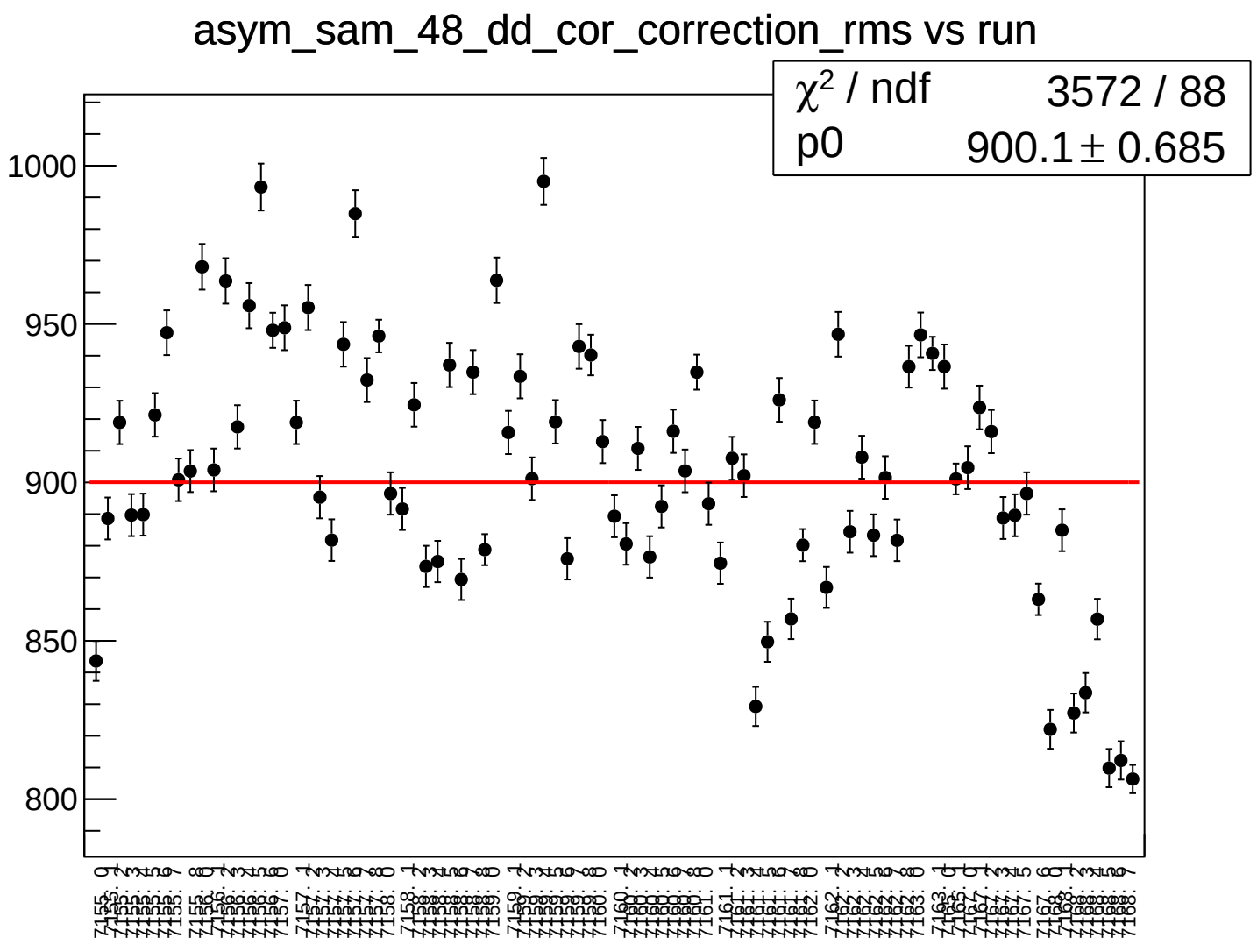

cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.12 / 88
p0 −408.6 ± 121.3
pull
Entries 89
Mean −577.2
Std Dev 0

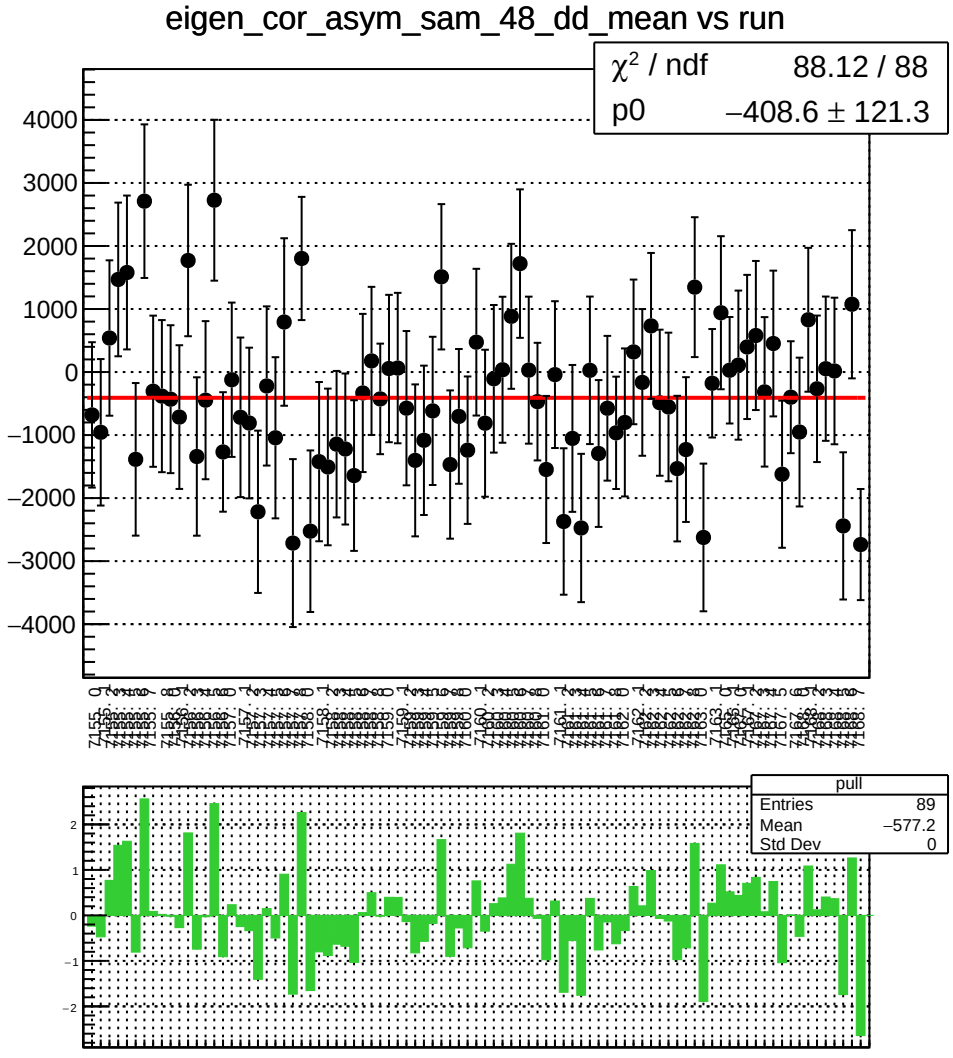

pull1D
Entries 89
Mean 0.003645
Std Dev 0.995

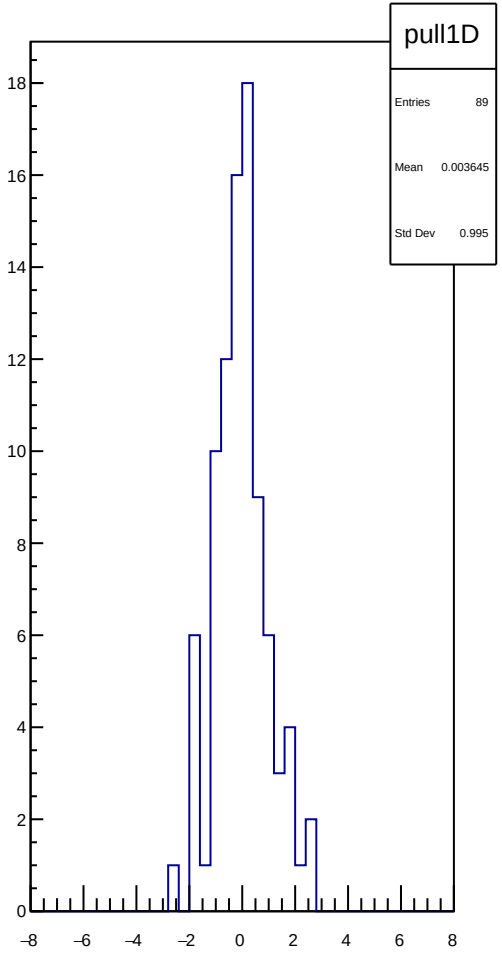

cor_asym_sam_48_dd_rms vs run
χ² / ndf 2318 / 88
p0 112.8 ± 0.0858
128
126
124
122
120
118
116
114
112
110
108
106

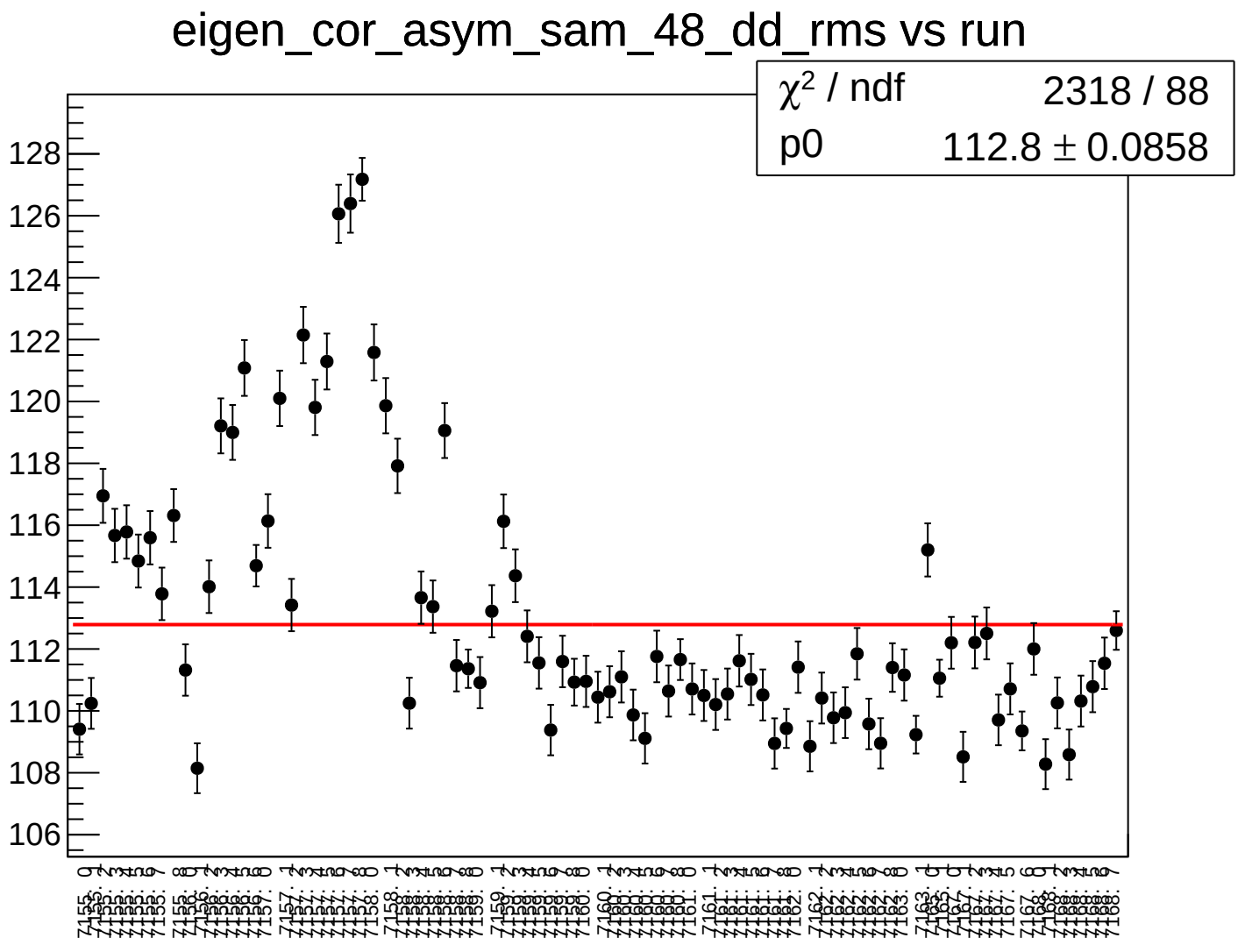

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 62.82 / 88
p0 1001 ± 968.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −109
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

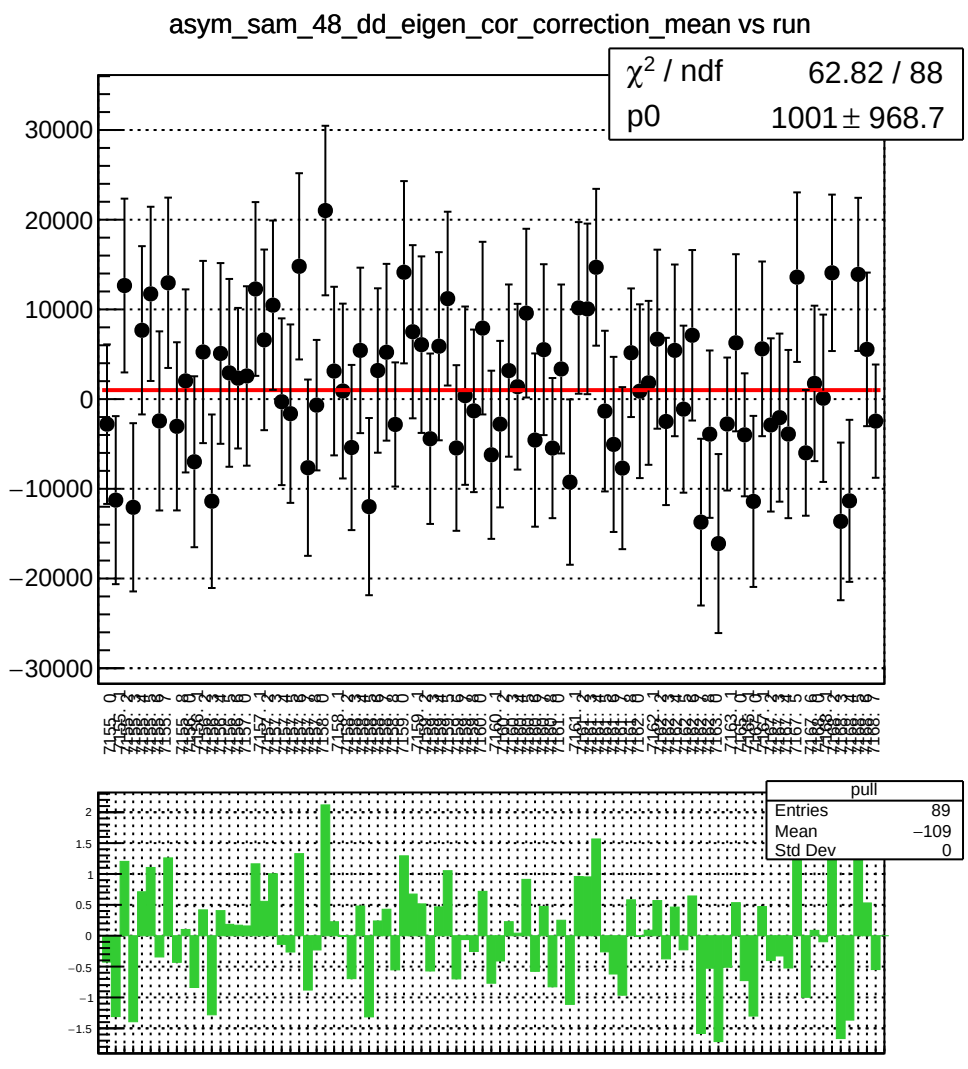

pull1D
Entries 89
Mean 0.01733
Std Dev 0.84
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

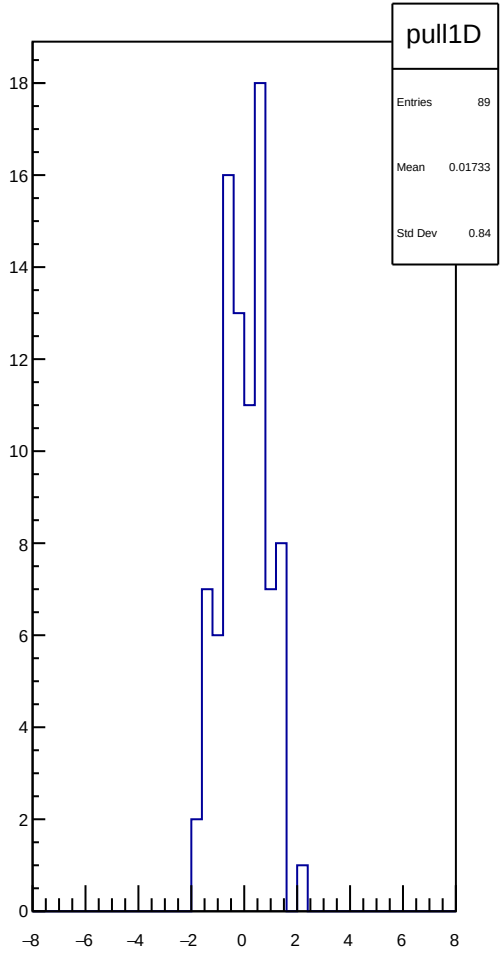

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3572 / 88
p0 900.1 ± 0.685
1000
950
900
850
800

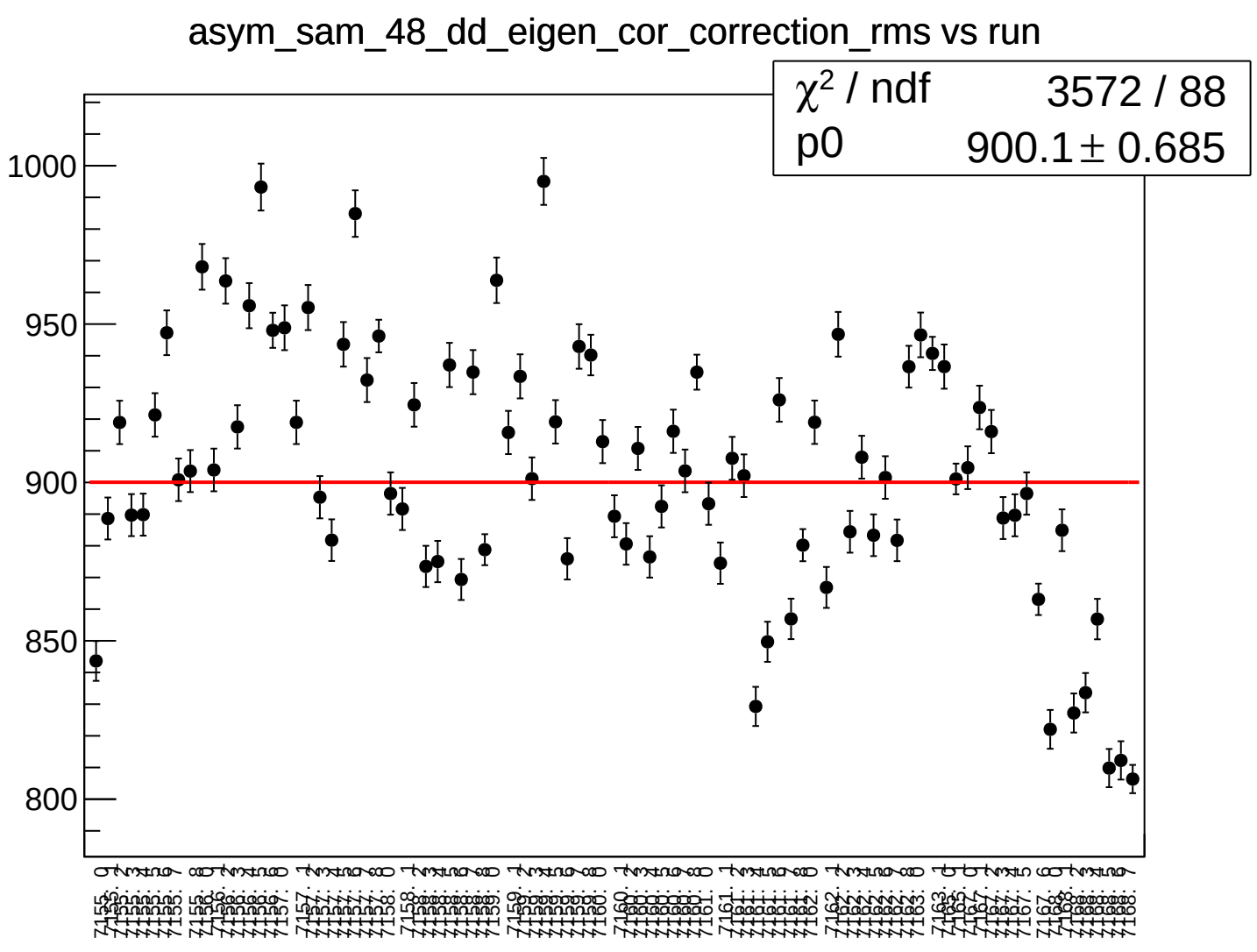

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 88.12 / 88
p0 −408.6 ± 121.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 89
Mean −577.2
Std Dev 0
2
1
0
−1
−2

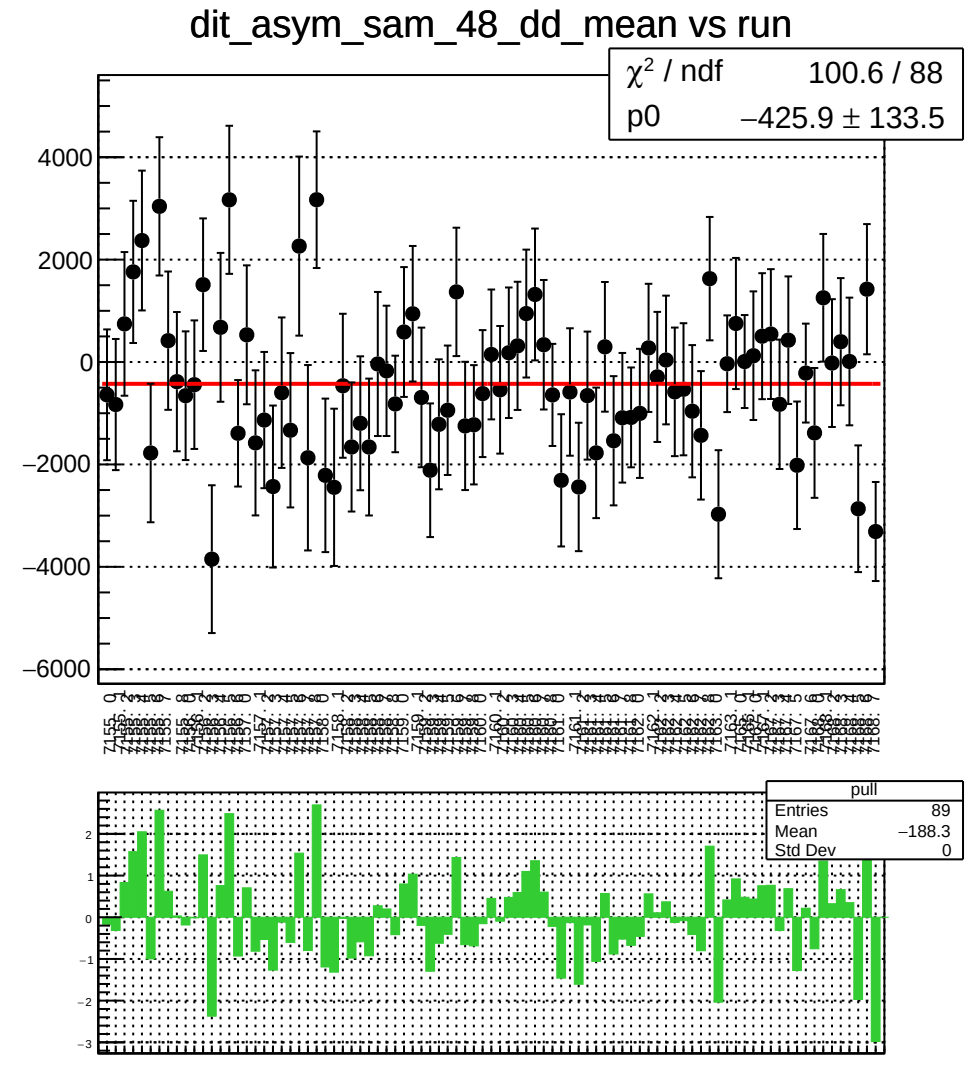

pull1D
Entries 89
Mean 0.003645
Std Dev 0.995
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

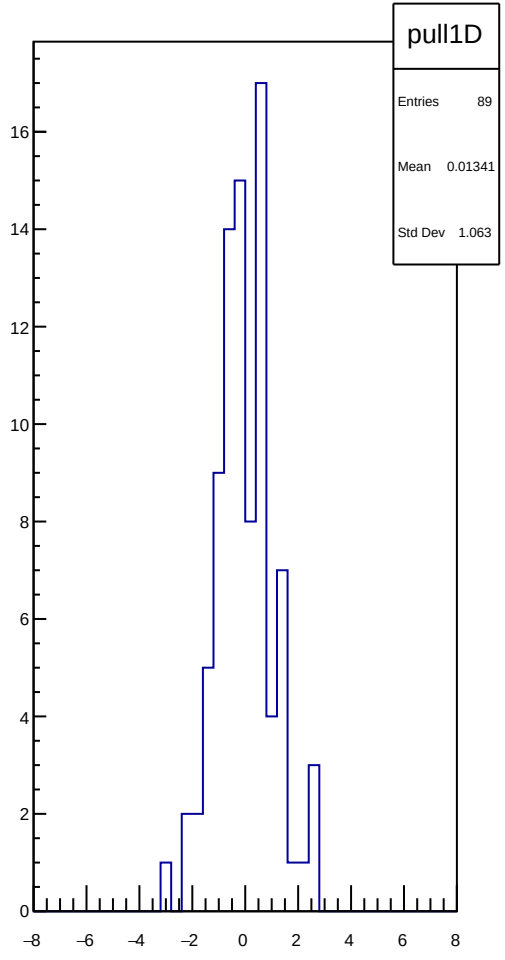

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 2318 / 88
p0 112.8 ± 0.0858
128
126
124
122
120
118
116
114
112
110
108
106

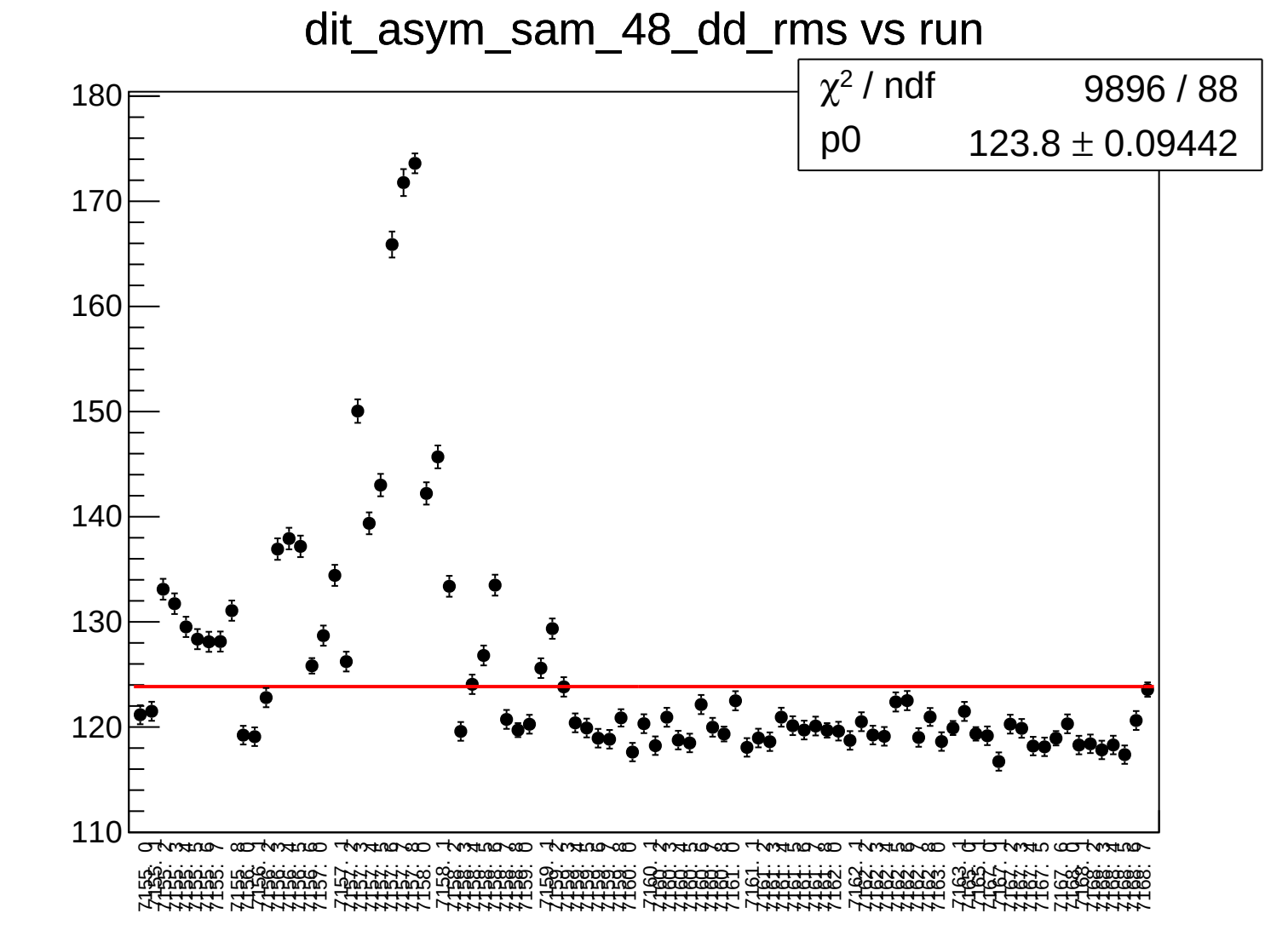

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.82 / 88
p0 1001 ± 968.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −109
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

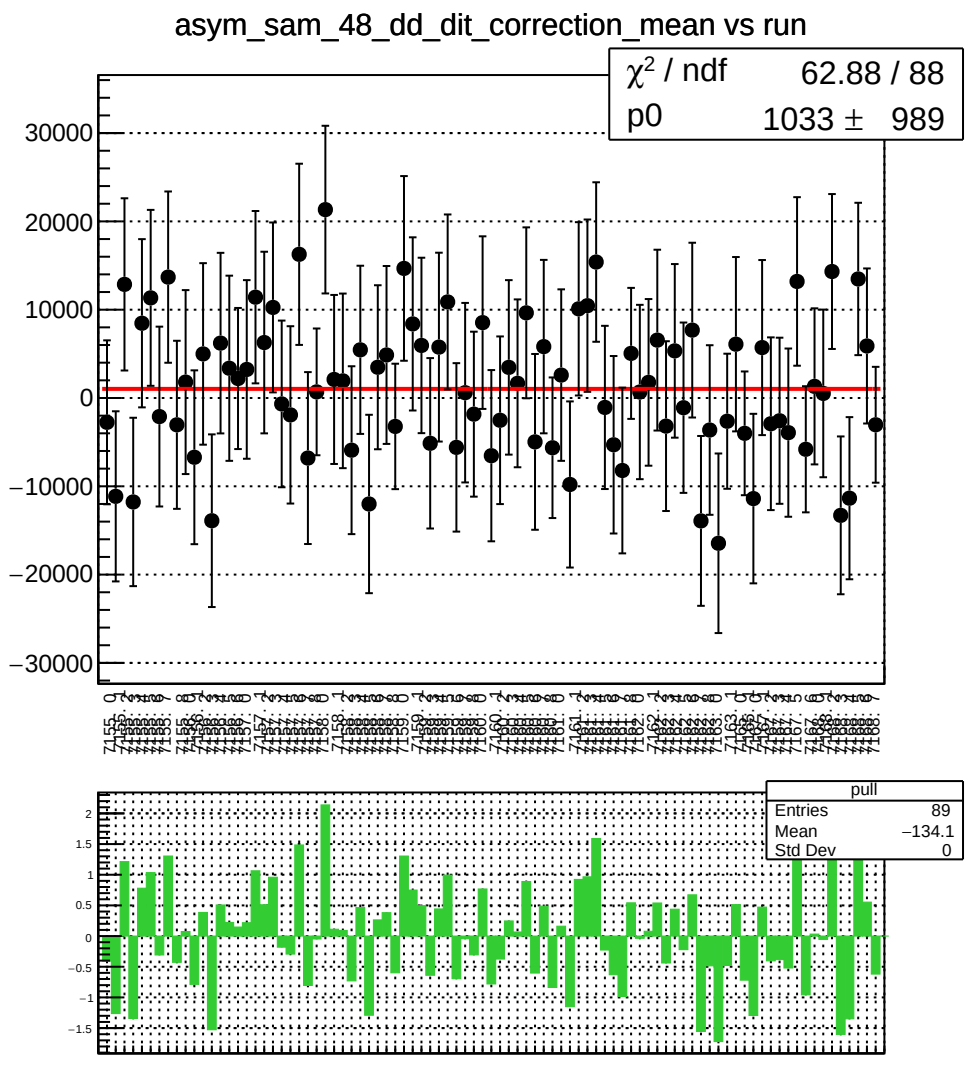

pull1D
Entries 89
Mean 0.01733
Std Dev 0.84
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

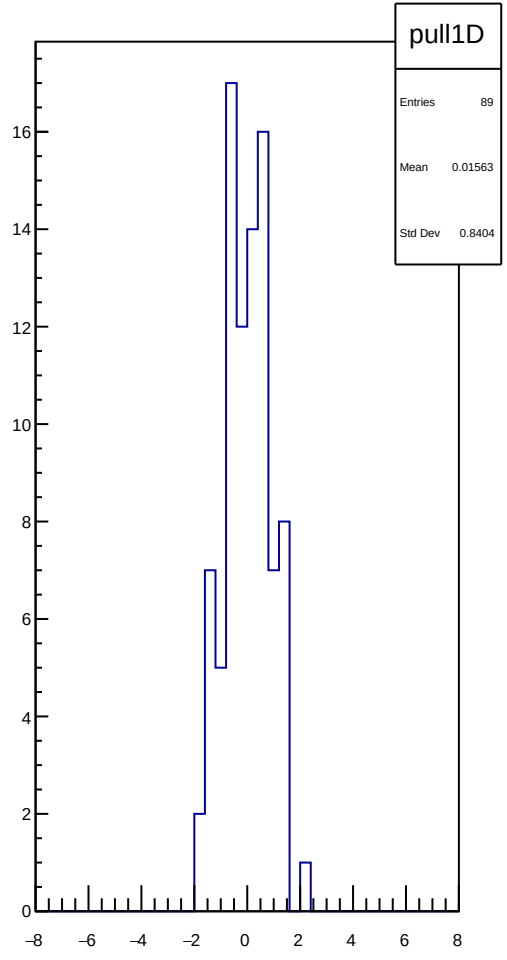

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3572 / 88
p0 900.1 ± 0.685
1000
950
900
850
800

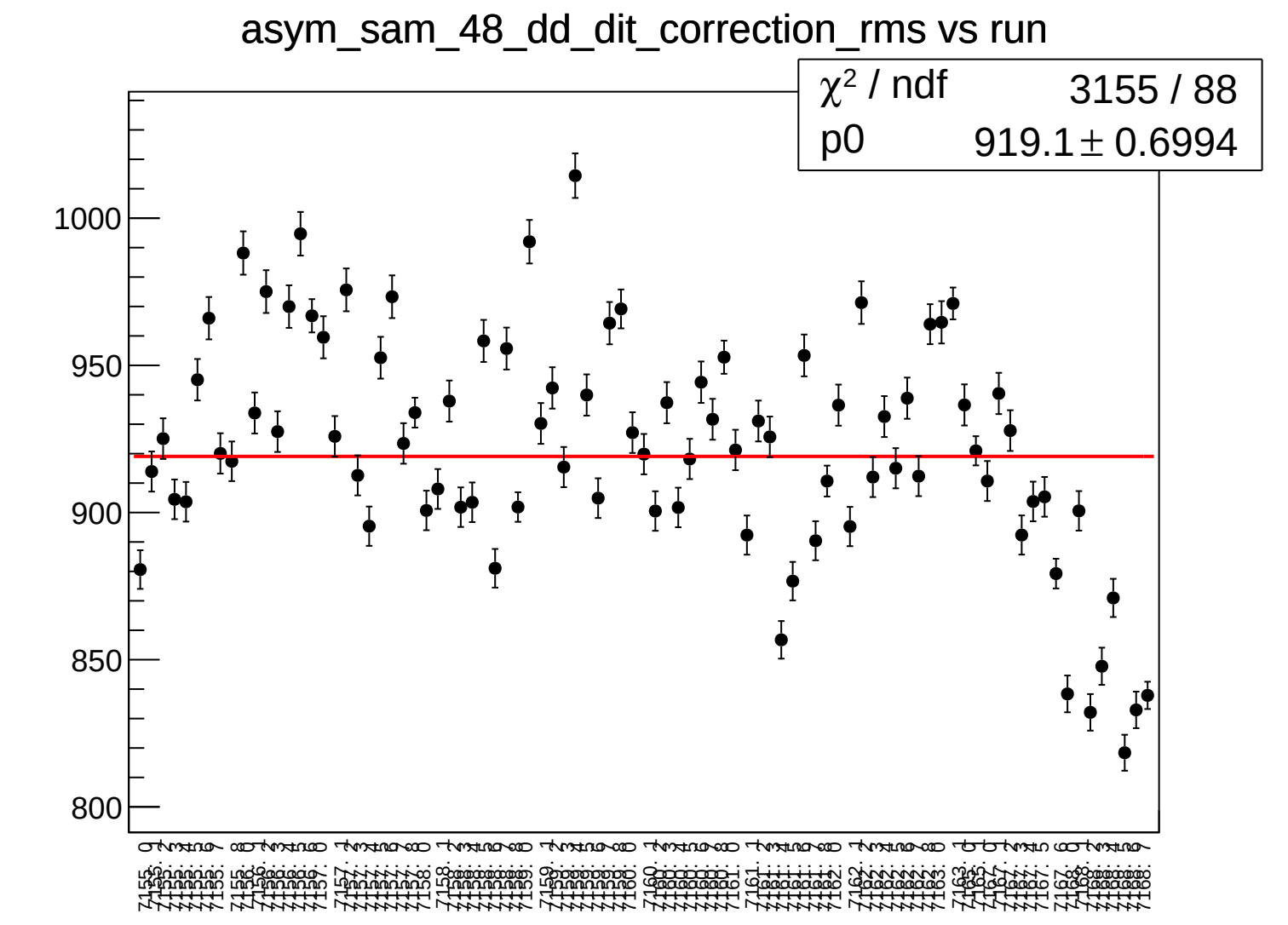

dit_asym_sam_48_dd_mean vs run
χ² / ndf 100.6 / 88
p0 −425.9 ± 133.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −188.3
Std Dev 0
2
1
0
−1
−2
−3

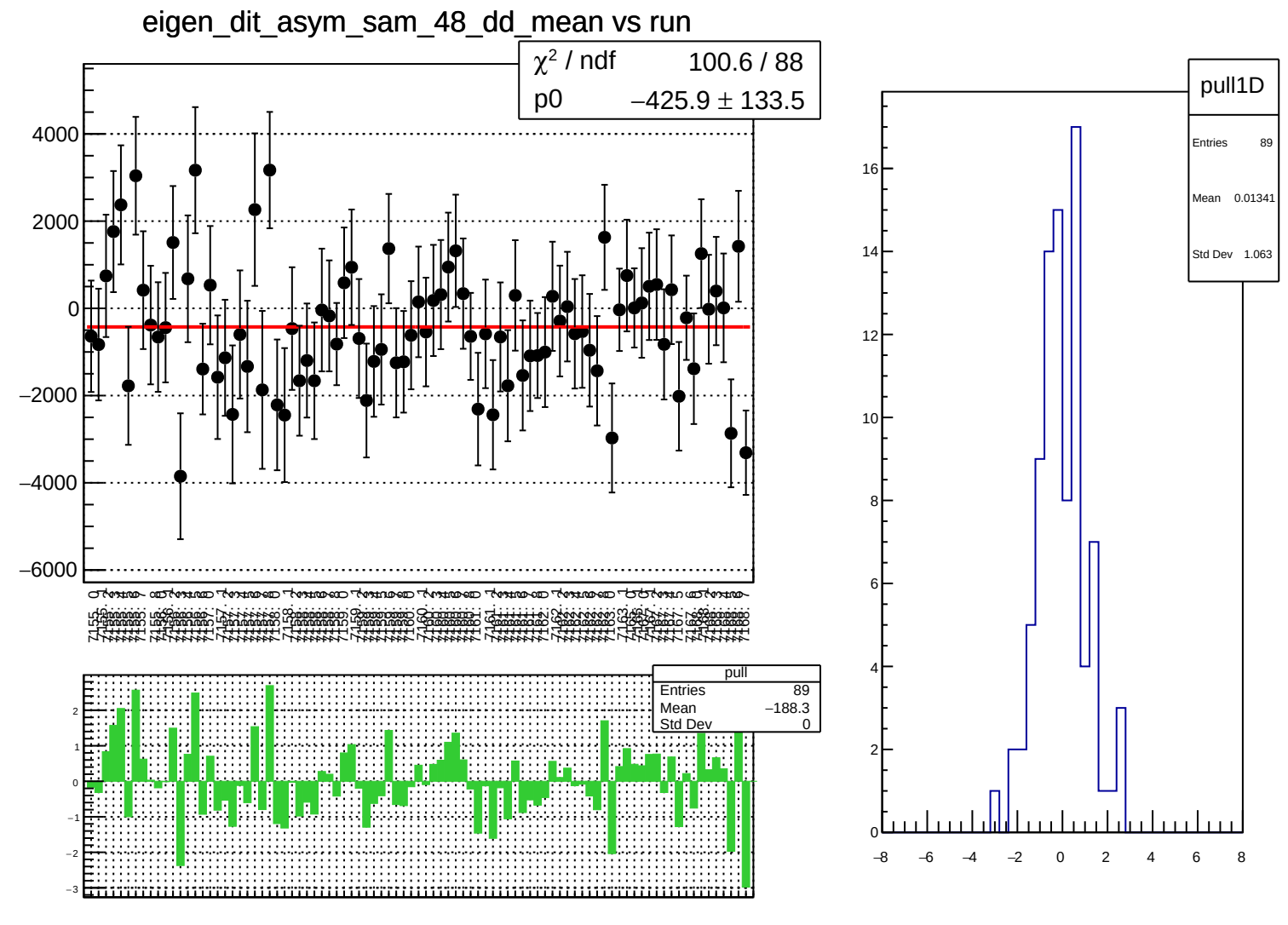

pull1D
Entries 89
Mean 0.01341
Std Dev 1.063
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

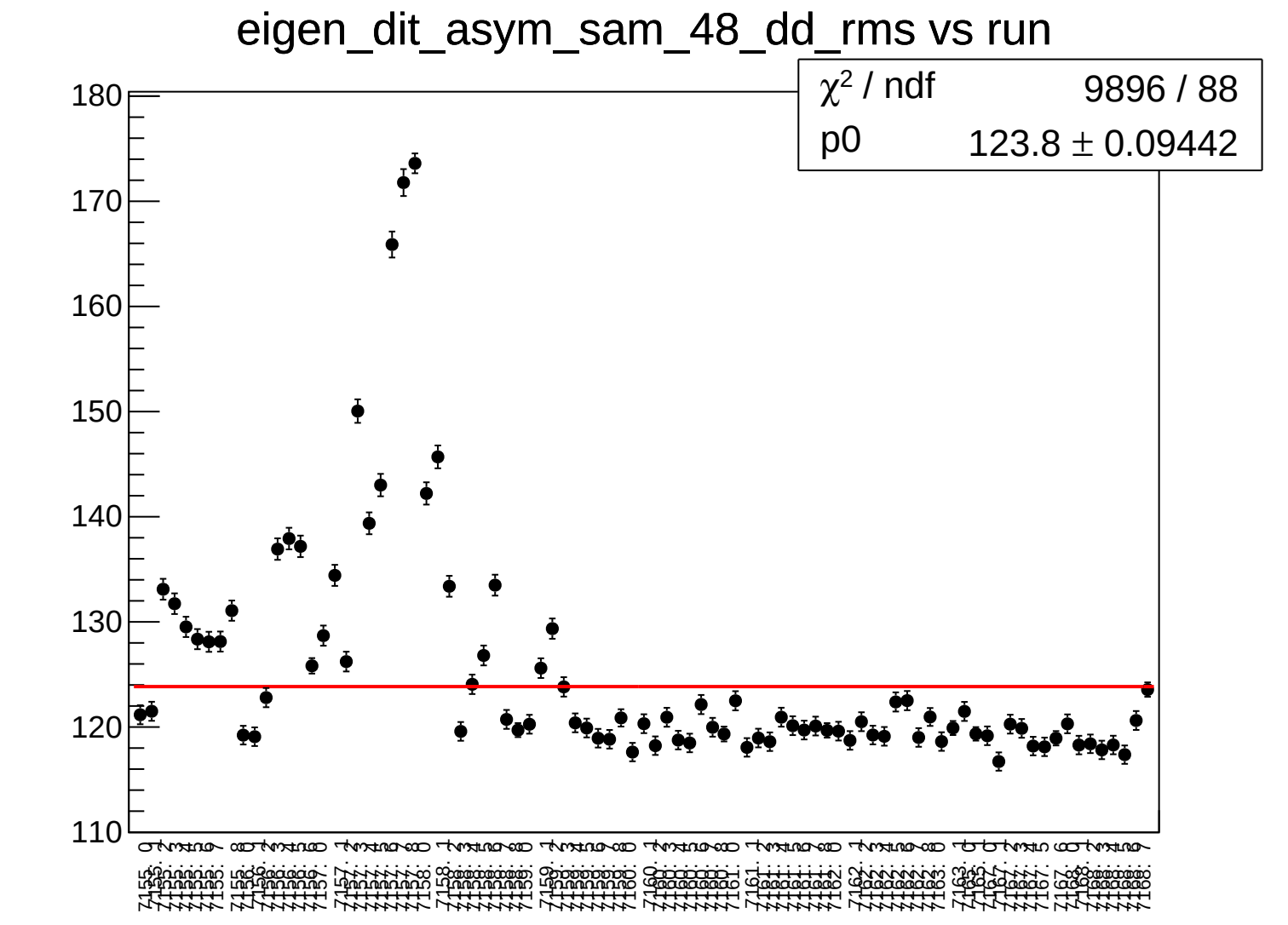

dit_asym_sam_48_dd_rms vs run
χ^2 / ndf 9896 / 88
p0 123.8 ± 0.09442
180
170
160
150
140
130
120
110

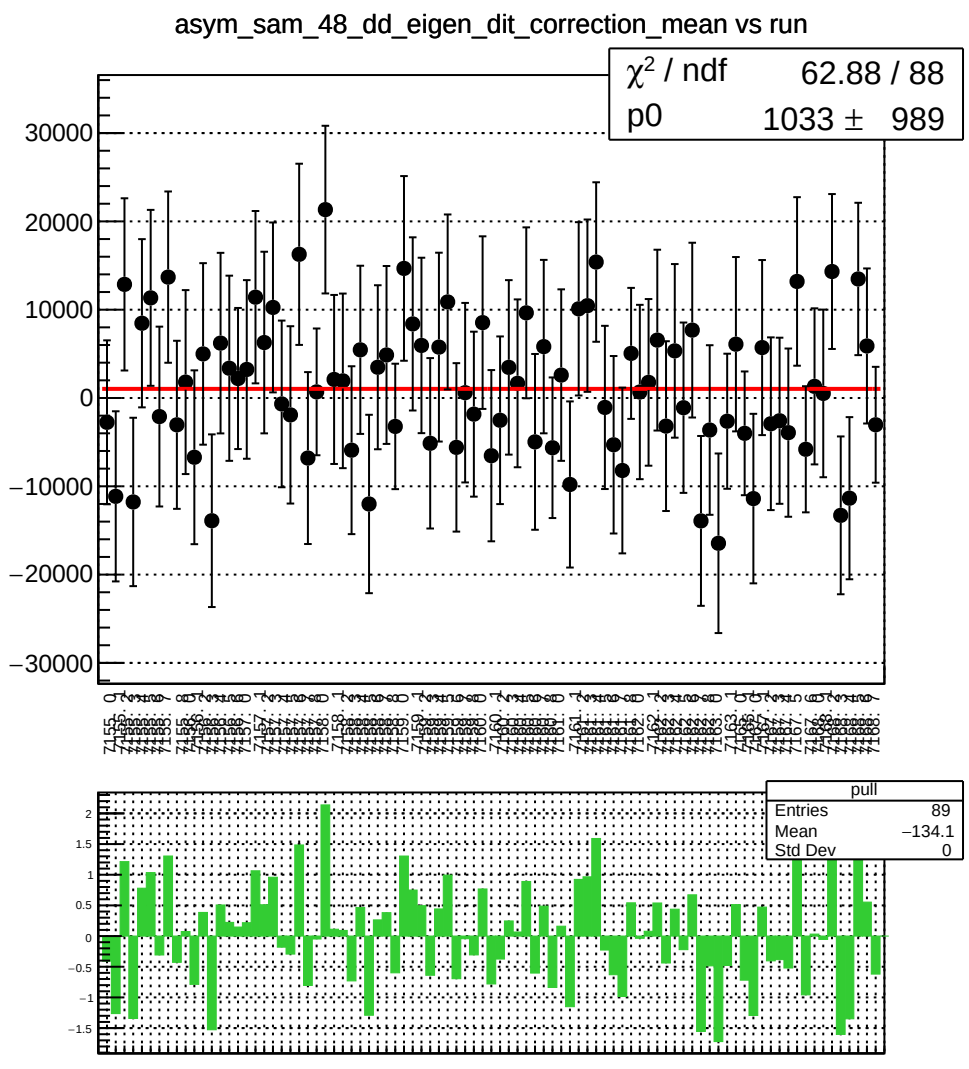

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 62.88 / 88
p0 1033 ± 989
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −134.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

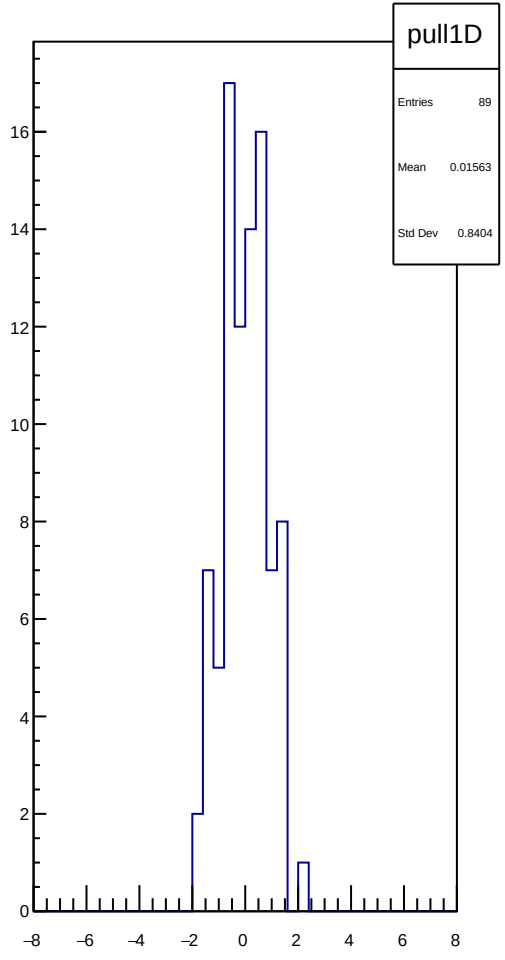

pull1D
Entries 89
Mean 0.01563
Std Dev 0.8404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

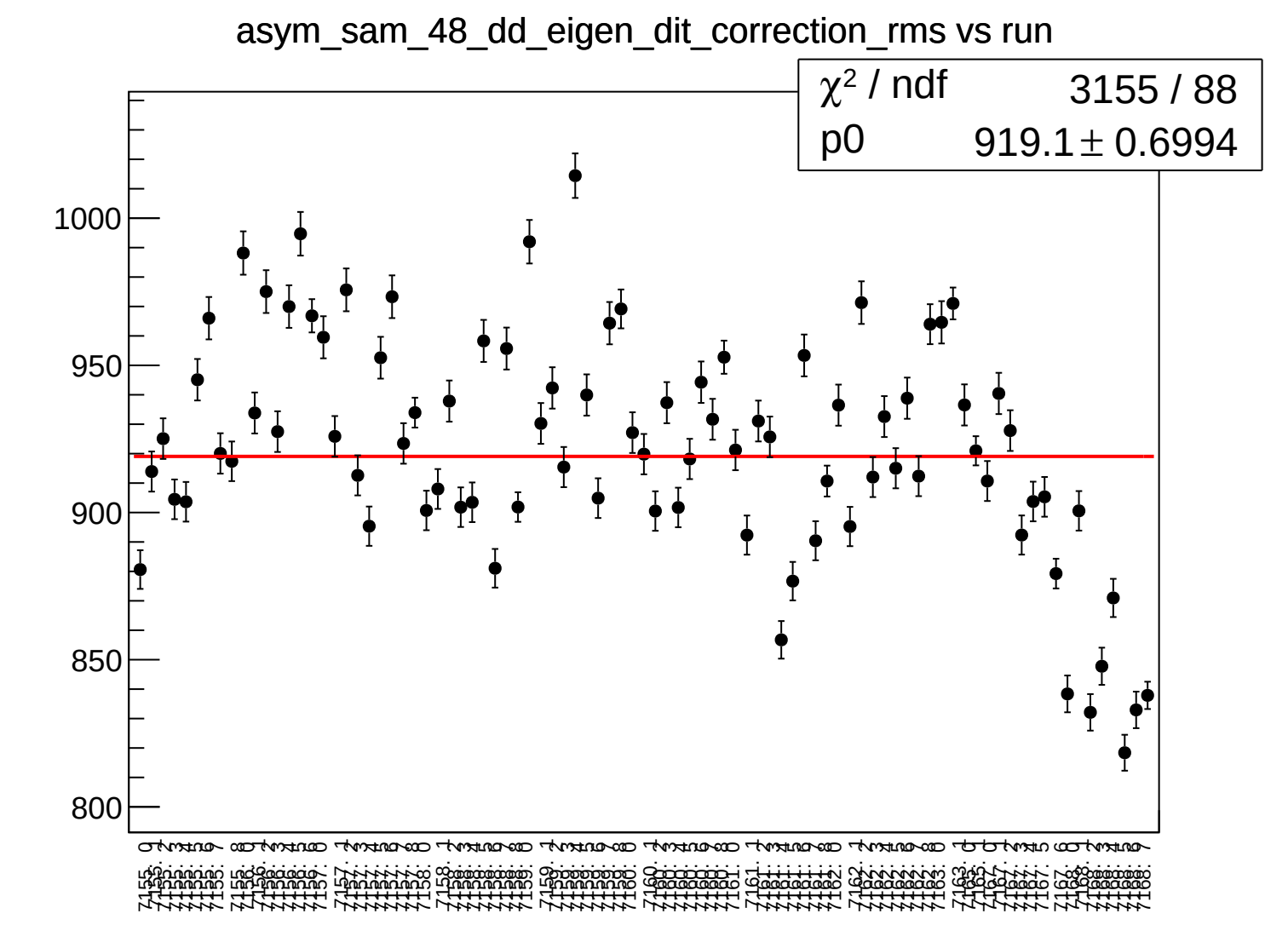

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3155 / 88
p0 919.1 ± 0.6994
1000
950
900
850
800

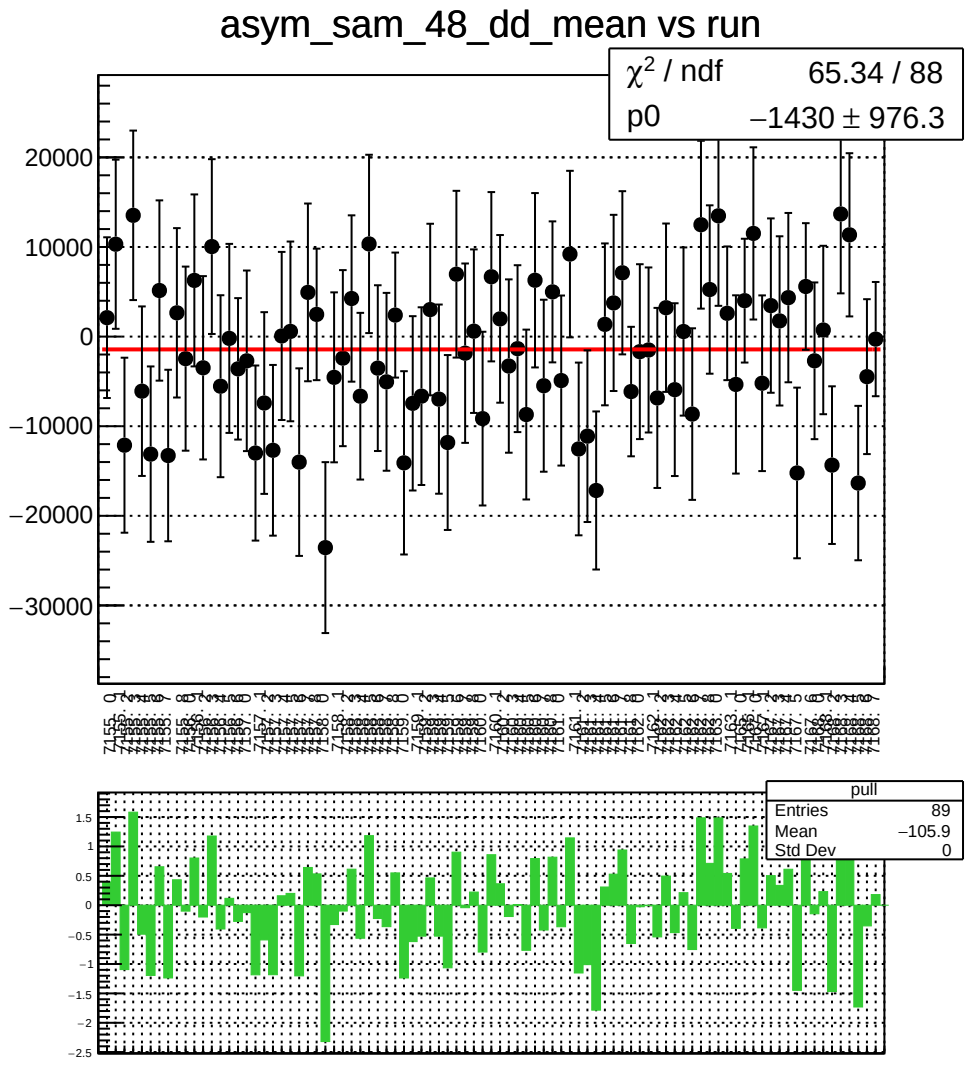

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 100.6 / 88
p0 −425.9 ± 133.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −188.3
Std Dev 0
pull1D
Entries 89
Mean 0.01341
Std Dev 1.063

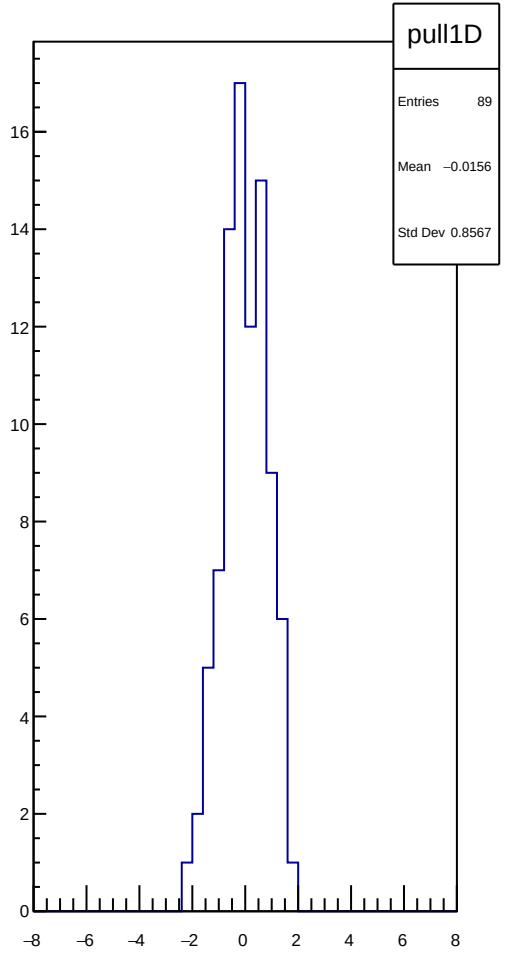

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 9896 / 88
p0 123.8 ± 0.09442
180
170
160
150
140
130
120
110

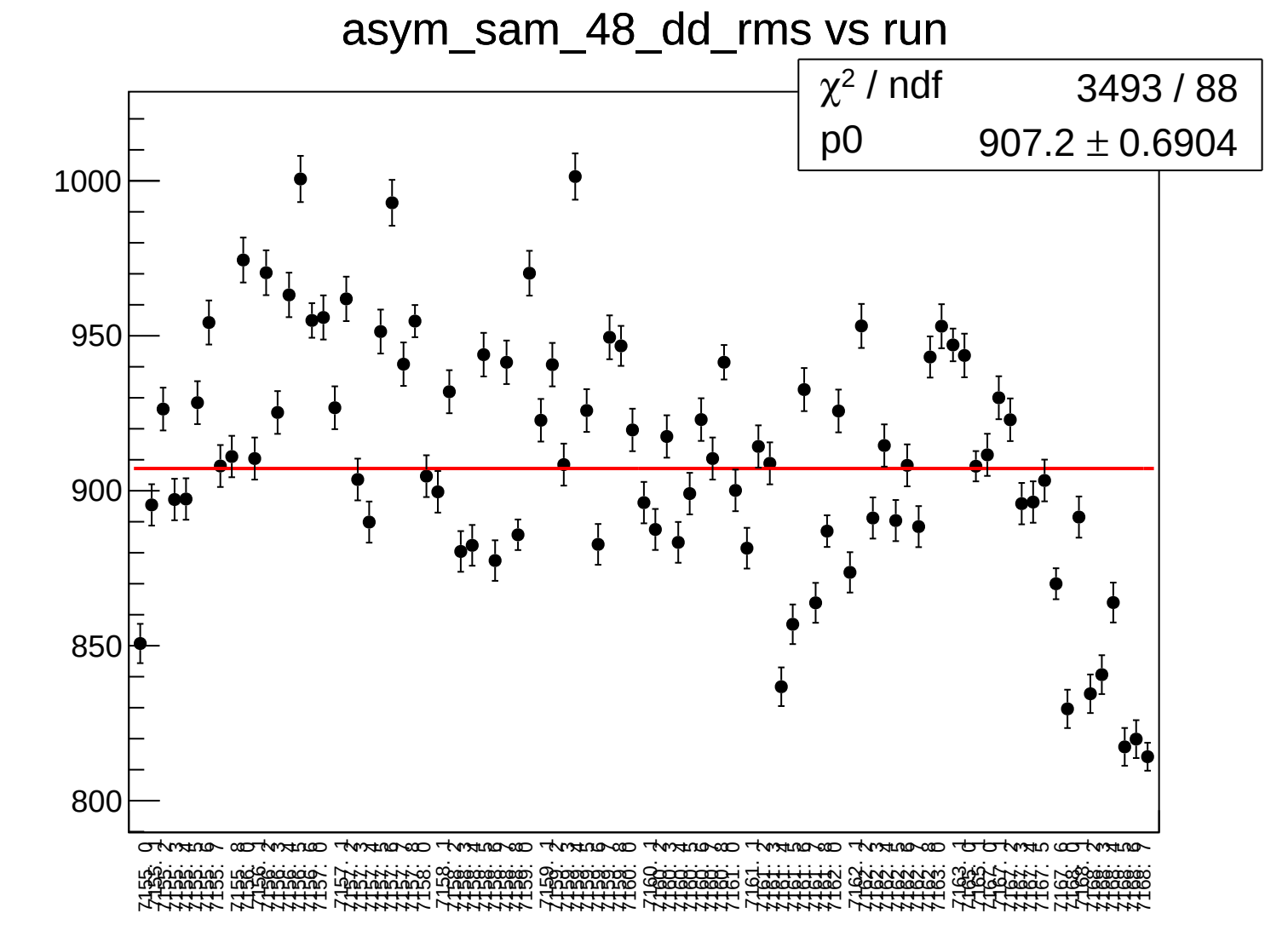

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.88 / 88
p0 1033 ± 989
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −134.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

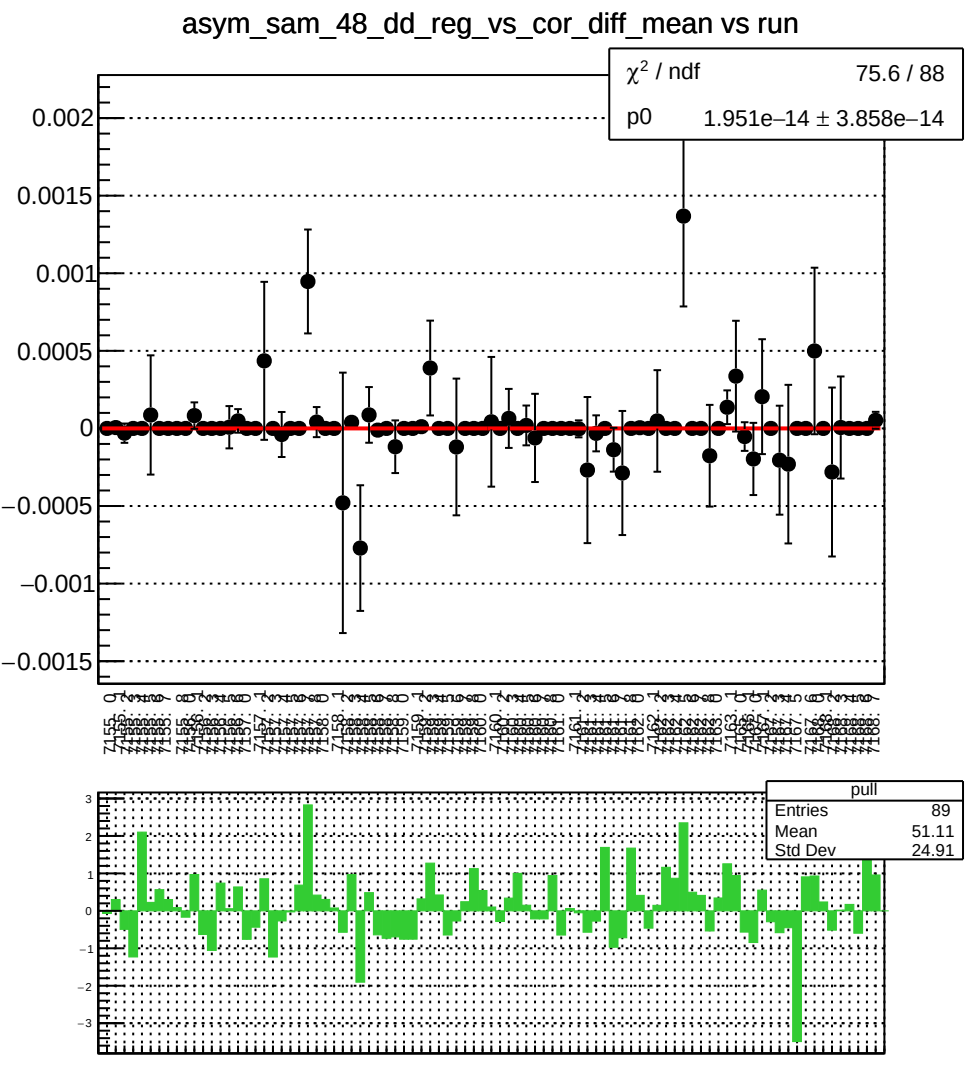

pull1D
Entries 89
Mean 0.01563
Std Dev 0.8404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

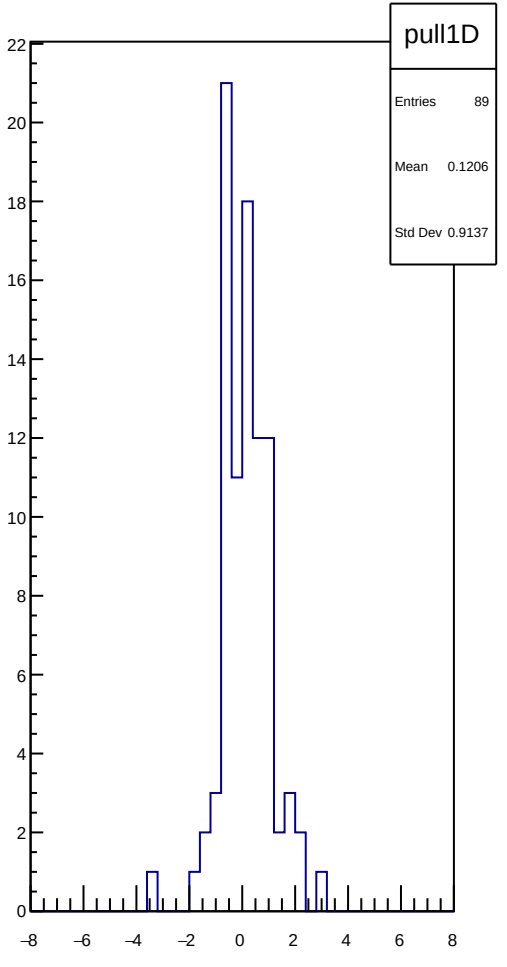

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3155 / 88
p0 919.1 ± 0.6994
1000
950
900
850
800

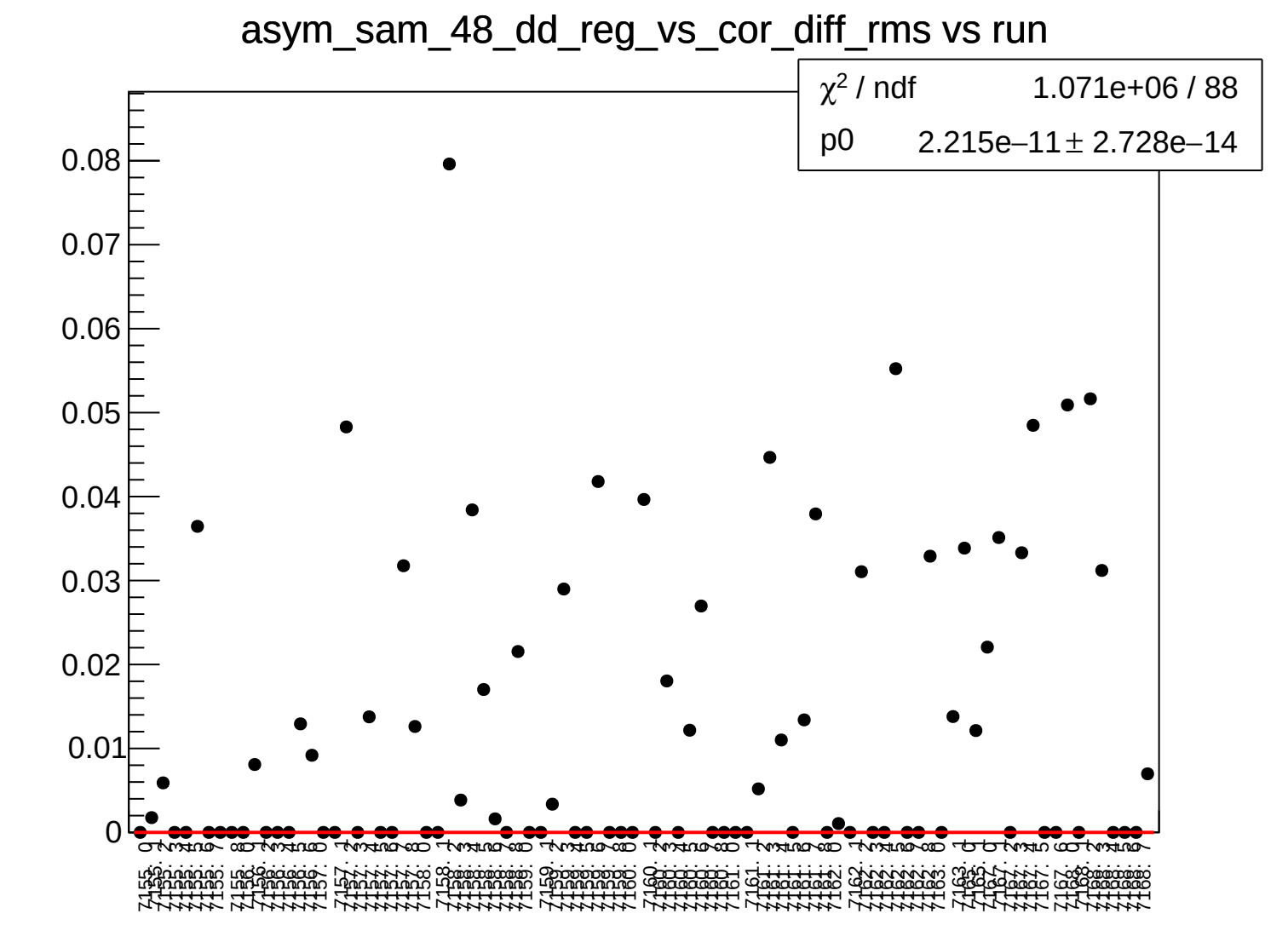

asym_sam_48_dd_mean vs run
χ² / ndf 65.34 / 88
p0 −1430 ± 976.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −105.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

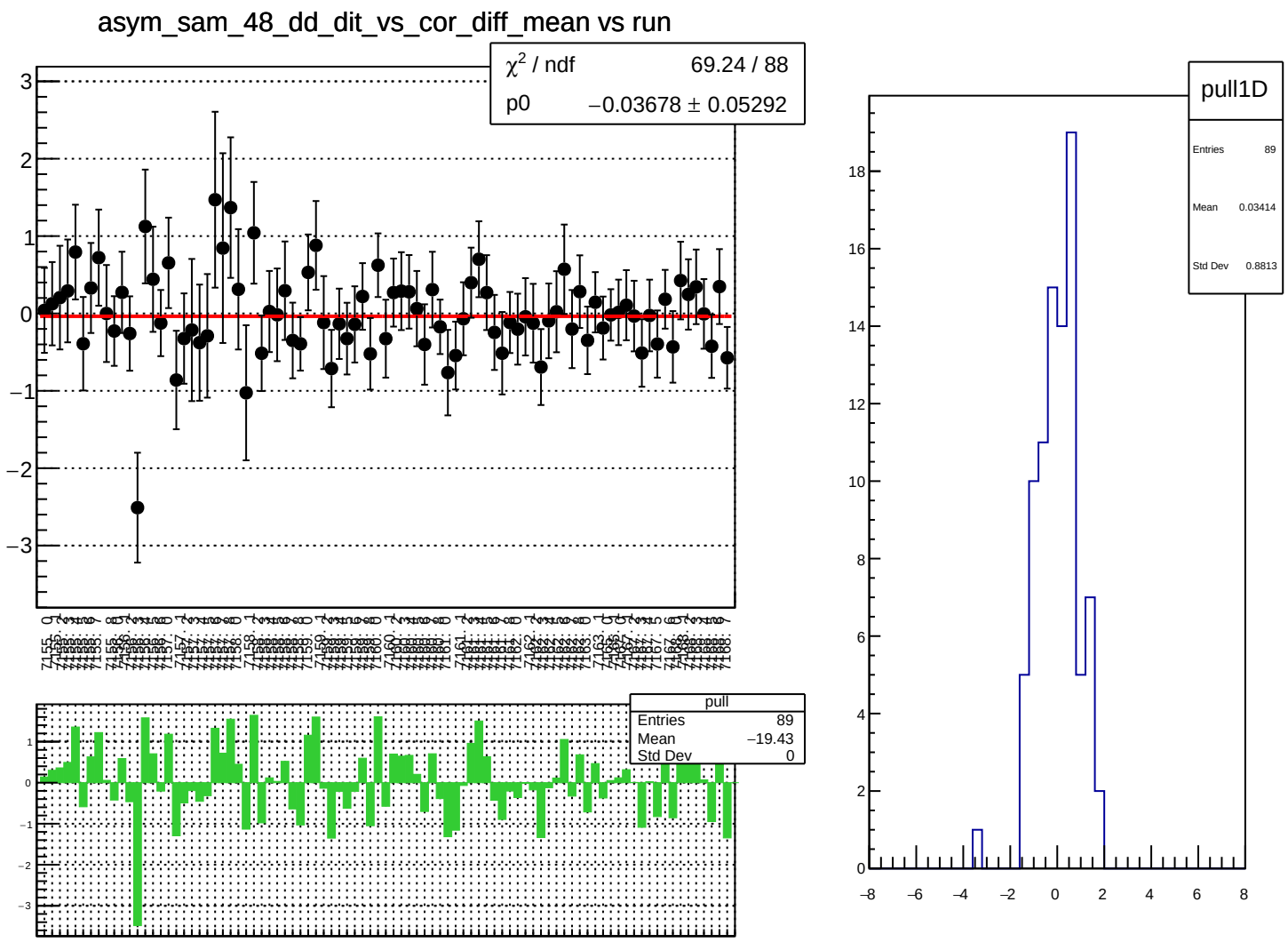

pull1D
Entries 89
Mean −0.0156
Std Dev 0.8567
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

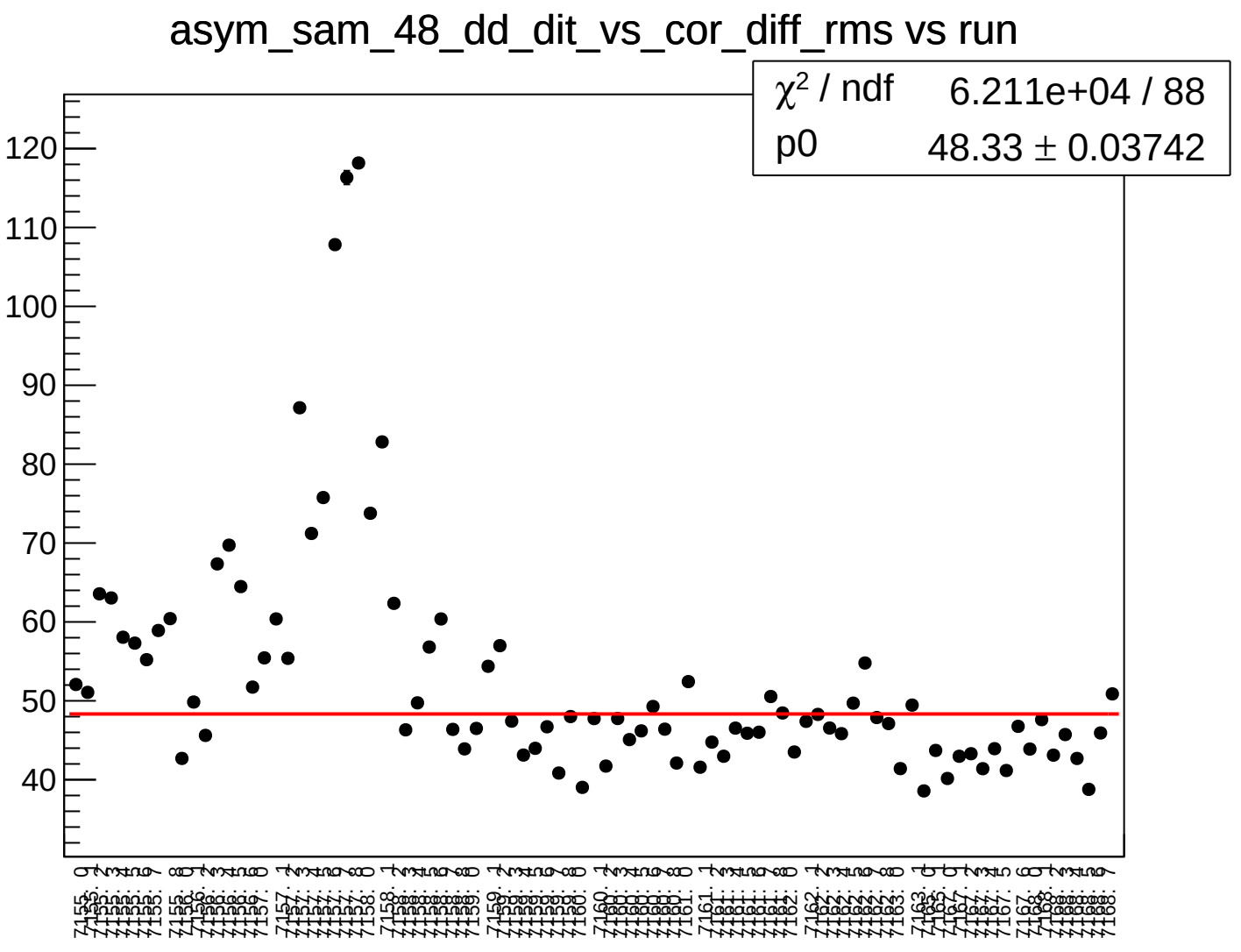

asym_sam_48_dd_rms vs run
χ² / ndf 3493 / 88
p0 907.2 ± 0.6904
1000
950
900
850
800

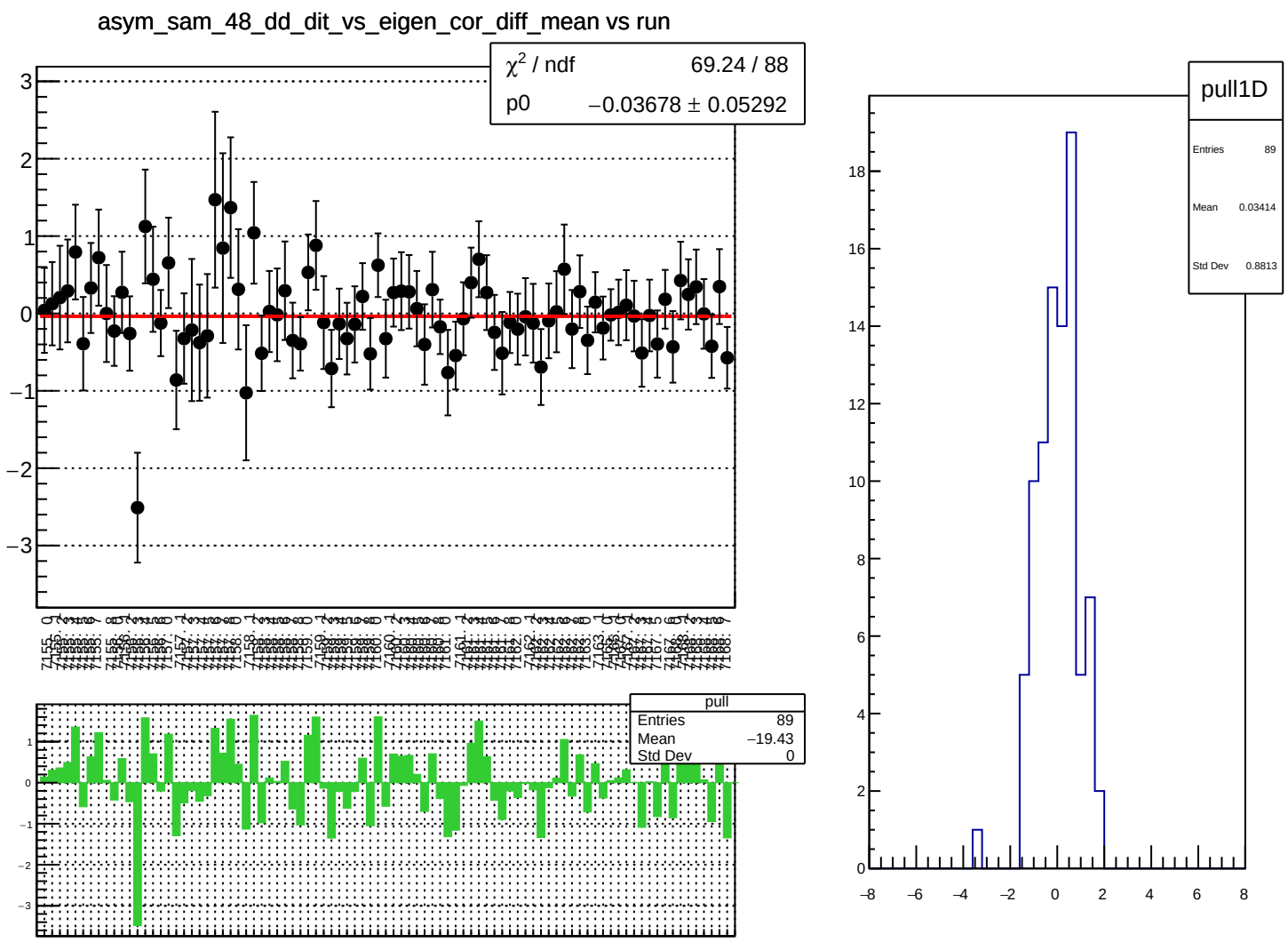

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.6 / 88
p0 1.951e−14 ± 3.858e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 89
Mean 51.11
Std Dev 24.91
3
2
1
0
−1
−2
−3

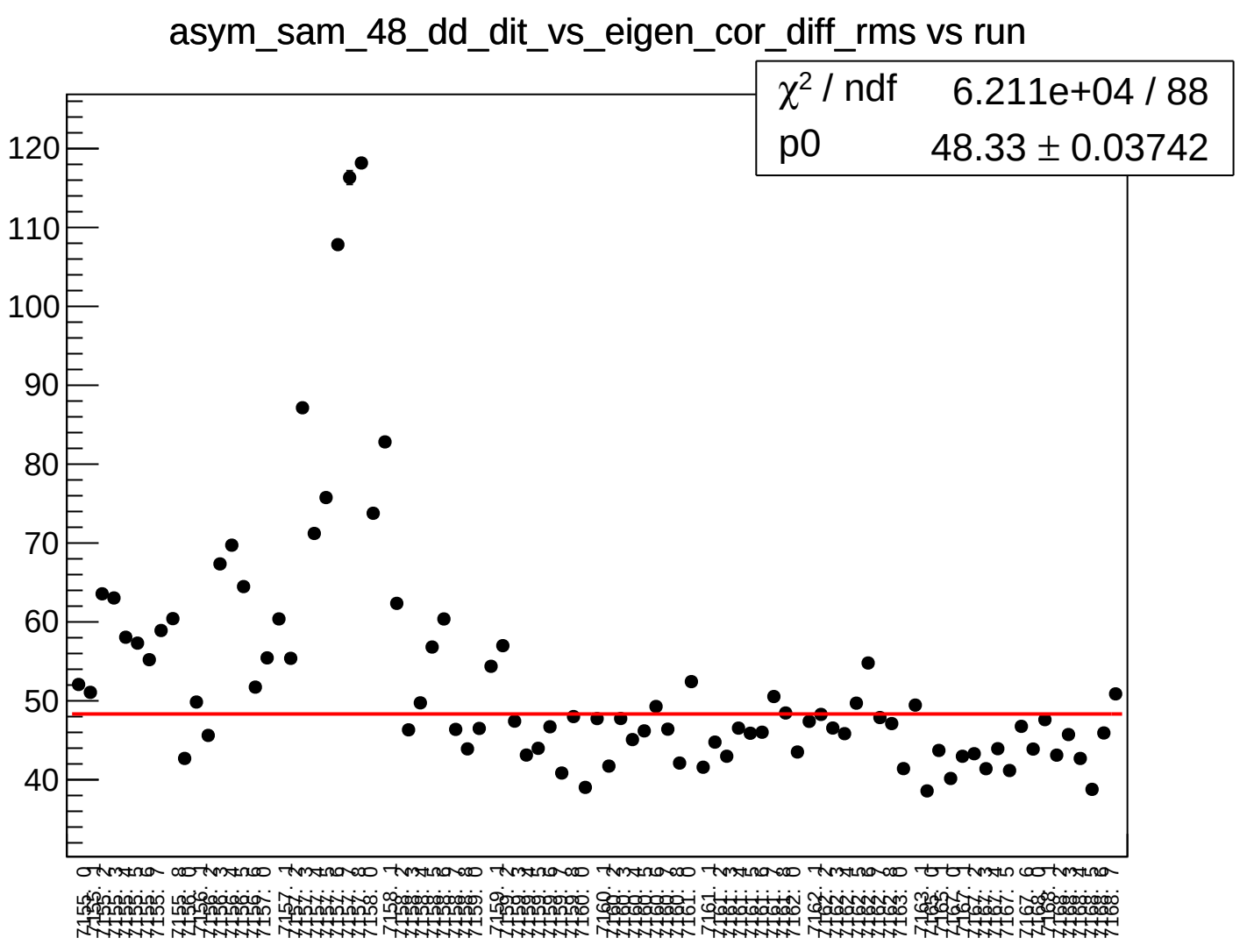

pull1D
Entries 89
Mean 0.1206
Std Dev 0.9137
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

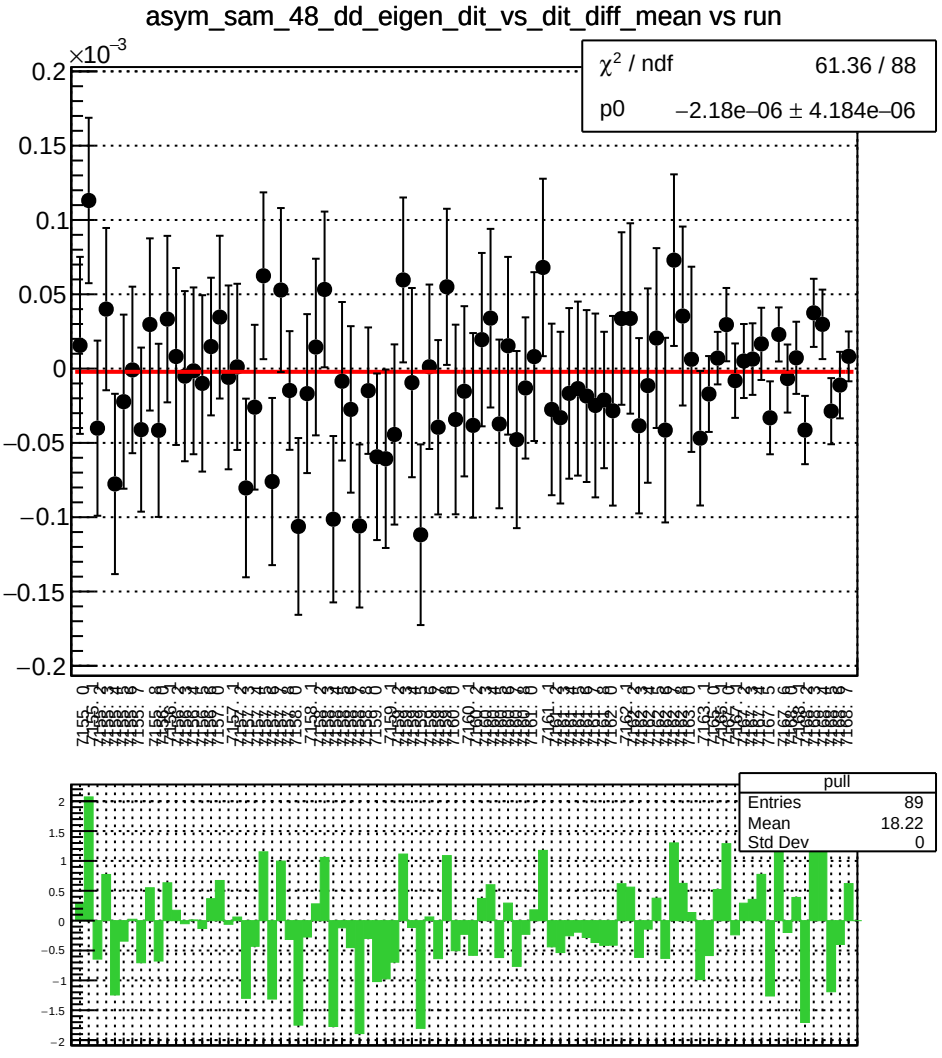

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 88
p0 2.215e−11 ± 2.728e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

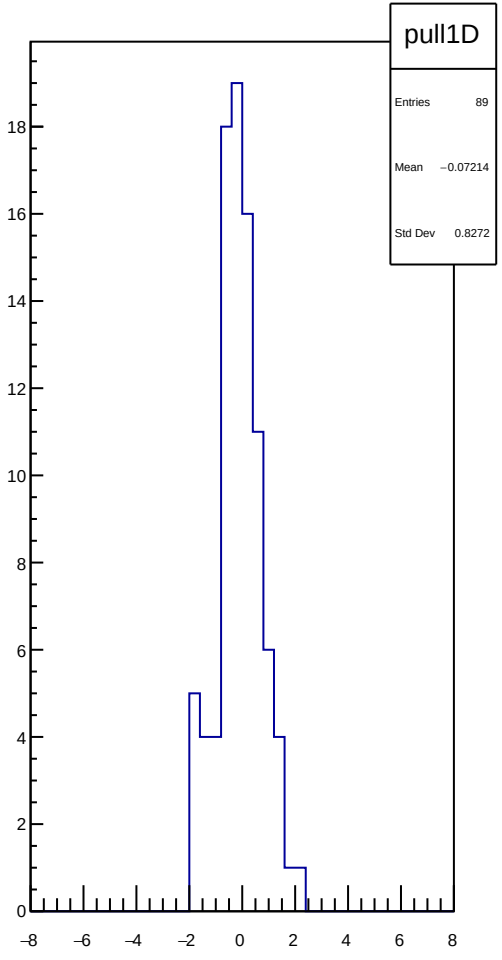

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 69.24 / 88
p0 −0.03678 ± 0.05292
pull
Entries 89
Mean −19.43
Std Dev 0
pull1D
Entries 89
Mean 0.03414
Std Dev 0.8813

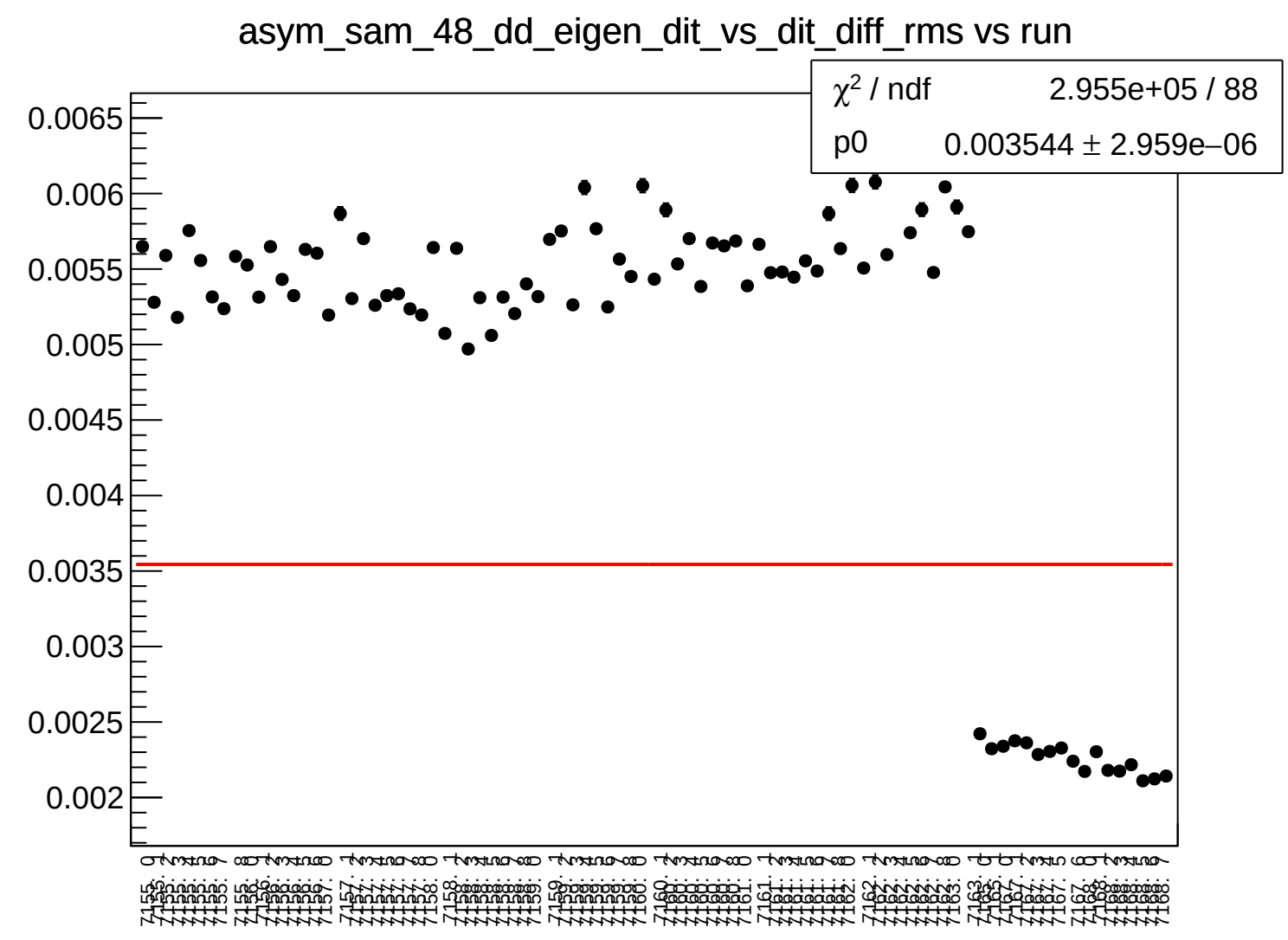

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.211e+04 / 88
p0 48.33 ± 0.03742
120
110
100
90
80
70
60
50
40

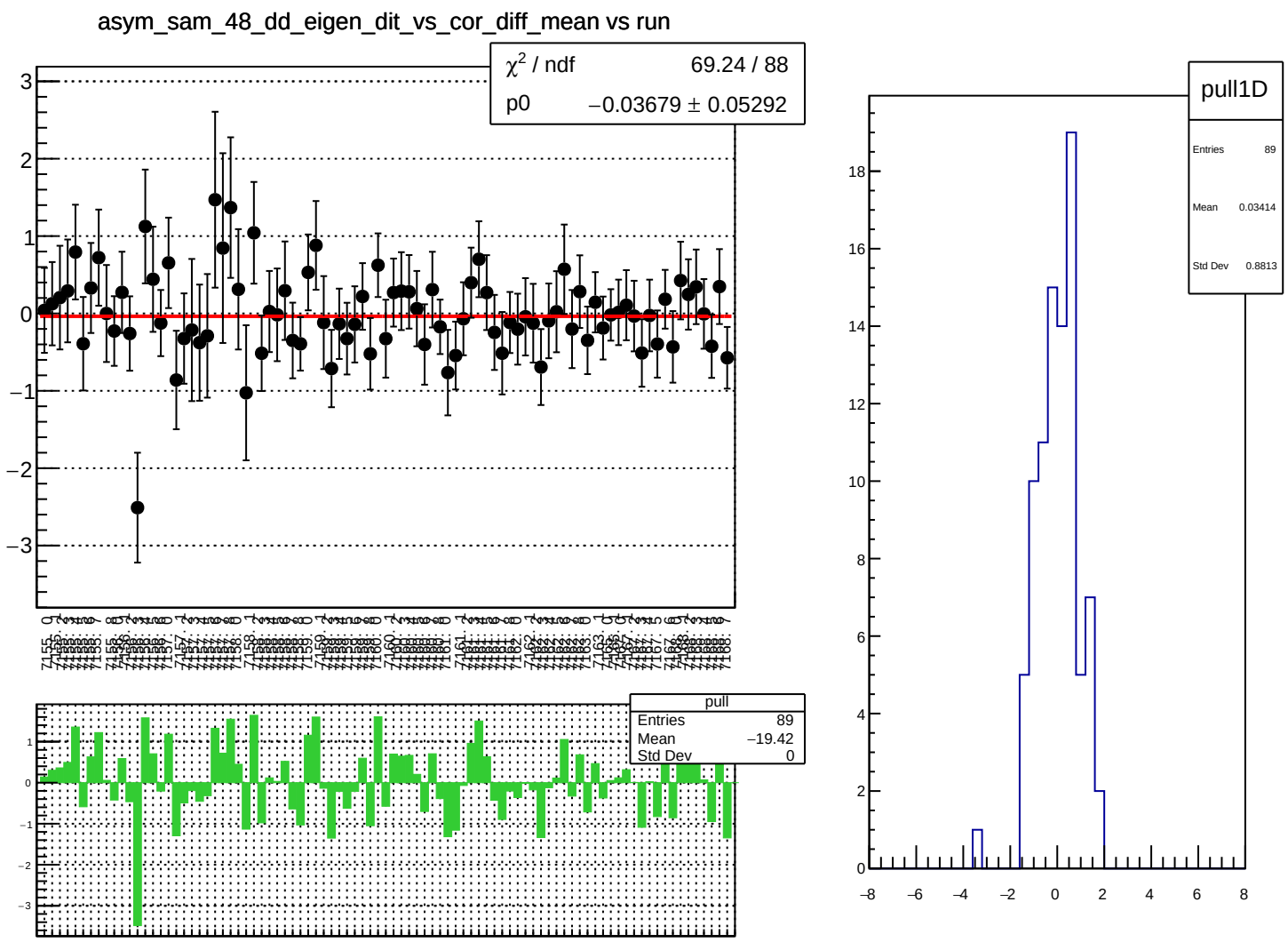

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.24 / 88
p0 −0.03678 ± 0.05292
pull
Entries 89
Mean −19.43
Std Dev 0
pull1D
Entries 89
Mean 0.03414
Std Dev 0.8813

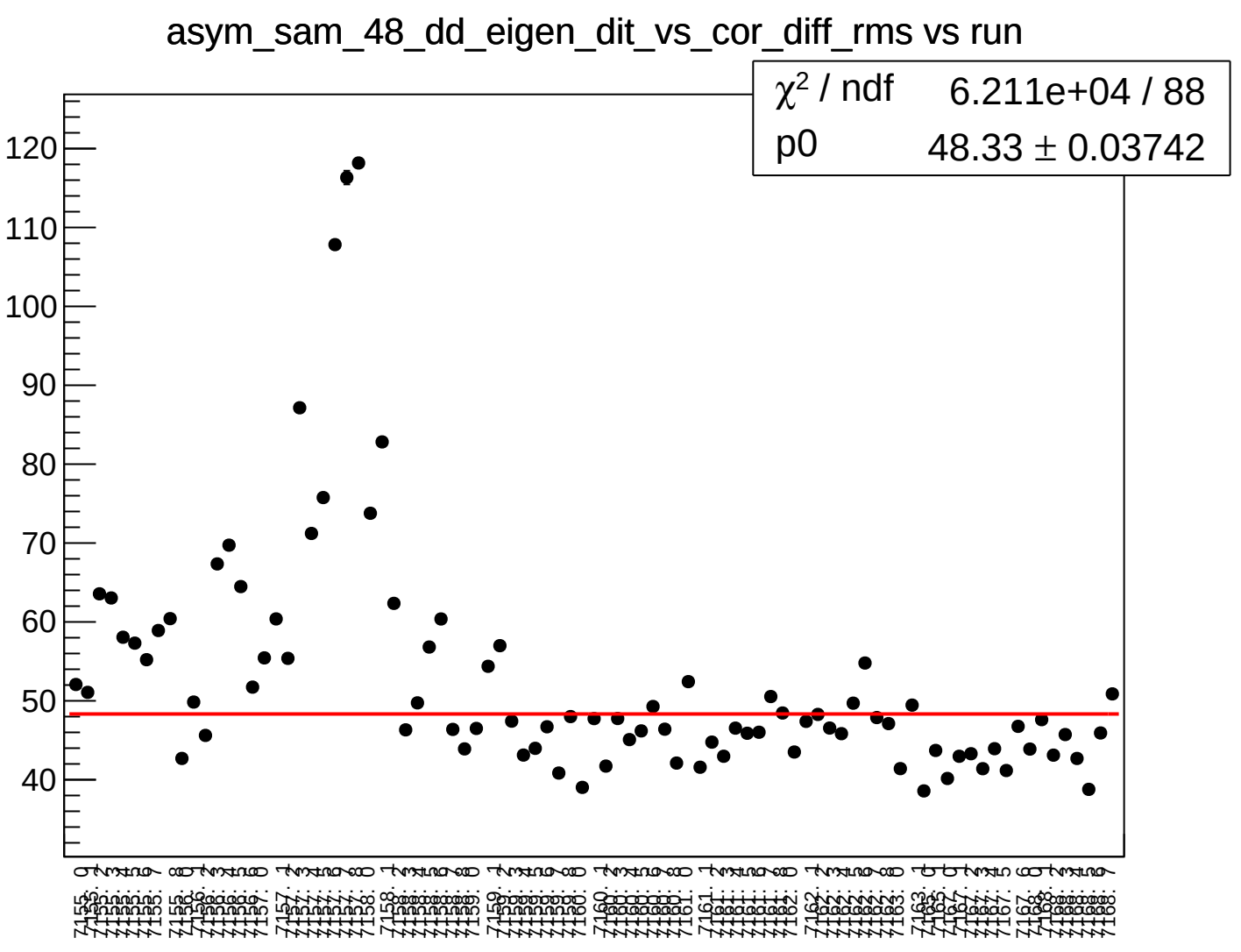

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.211e+04 / 88
p0 48.33 ± 0.03742
120
110
100
90
80
70
60
50
40

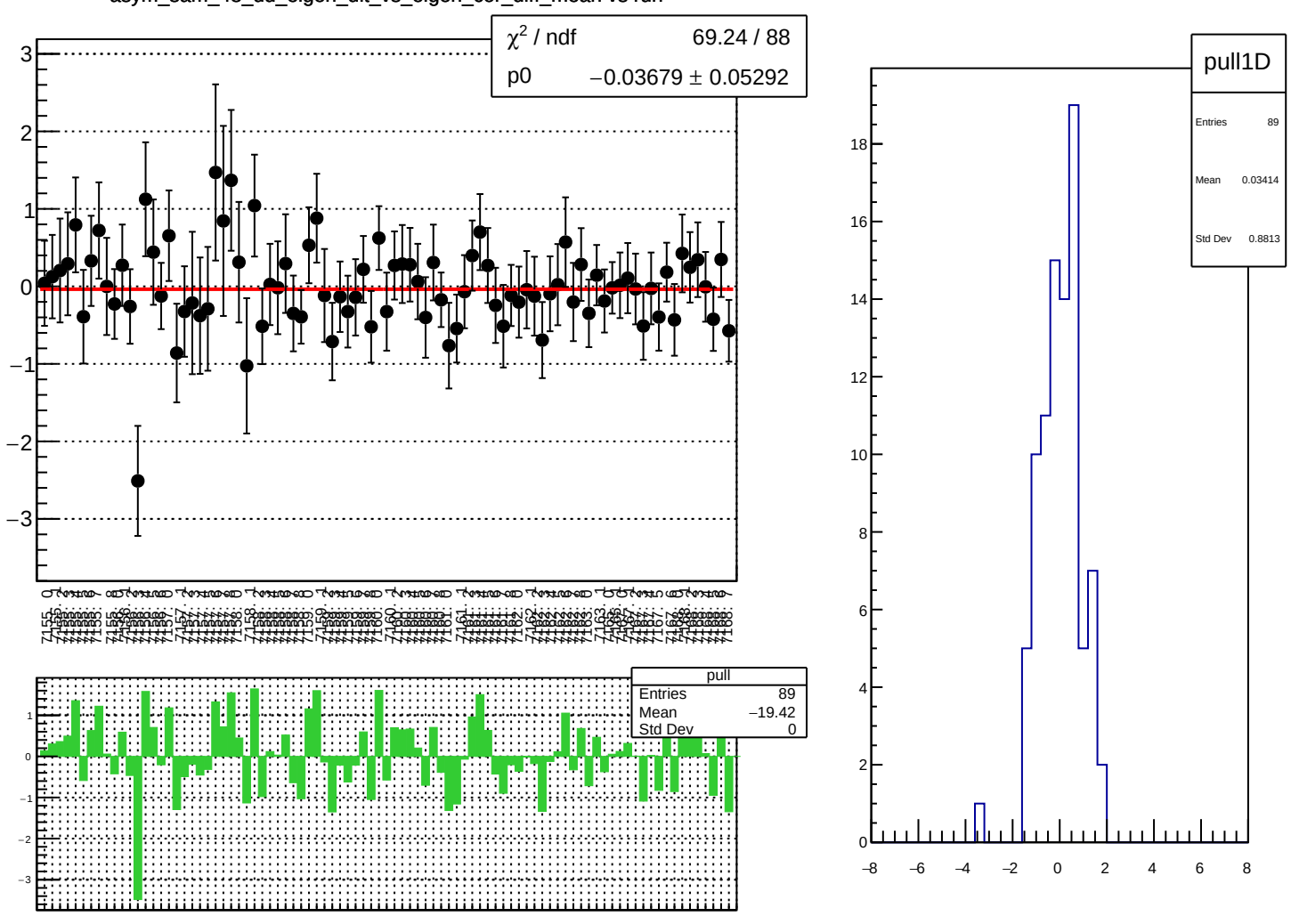

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 61.36 / 88
p0 −2.18e−06 ± 4.184e−06
pull
Entries 89
Mean 18.22
Std Dev 0

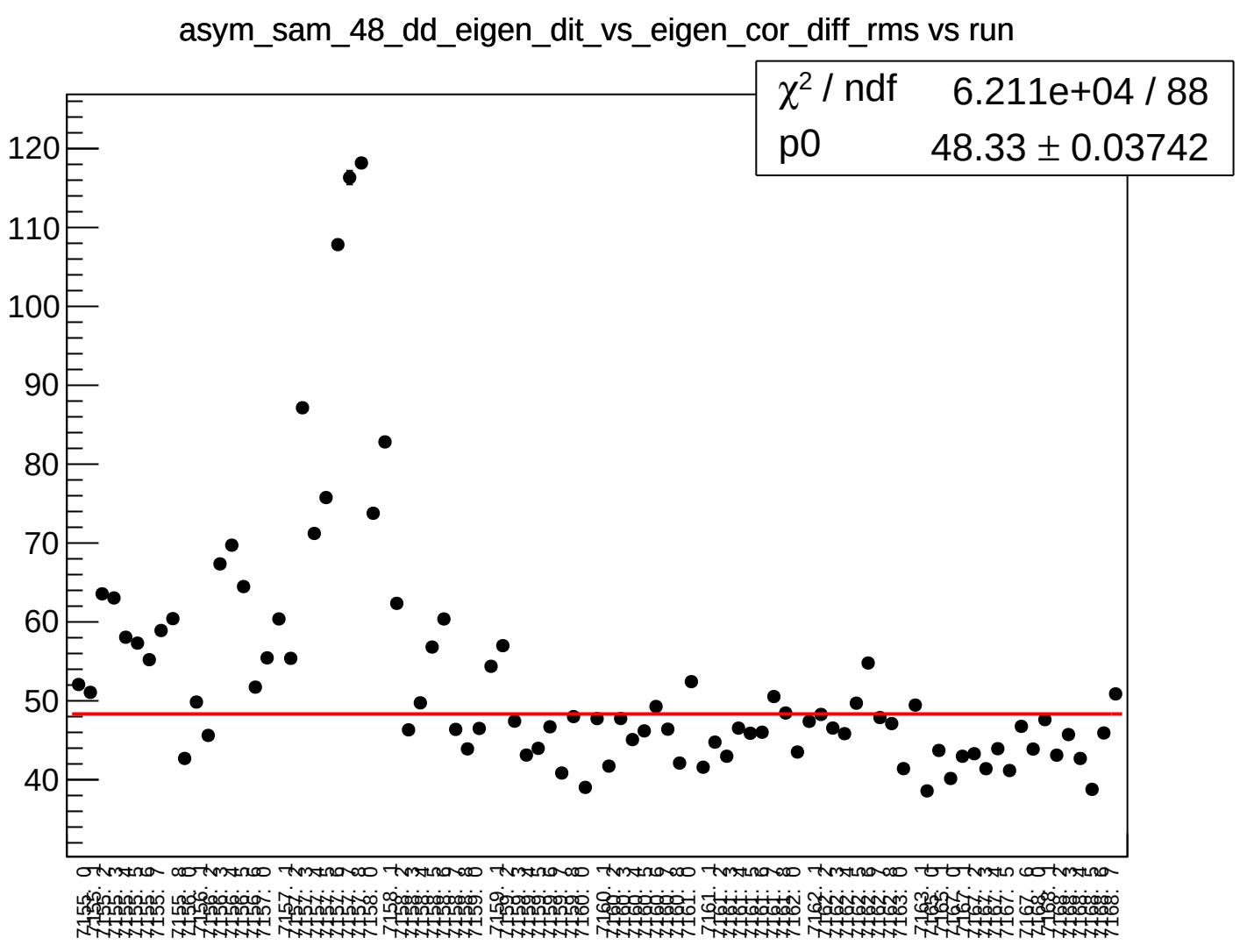

pull1D
Entries 89
Mean −0.07214
Std Dev 0.8272

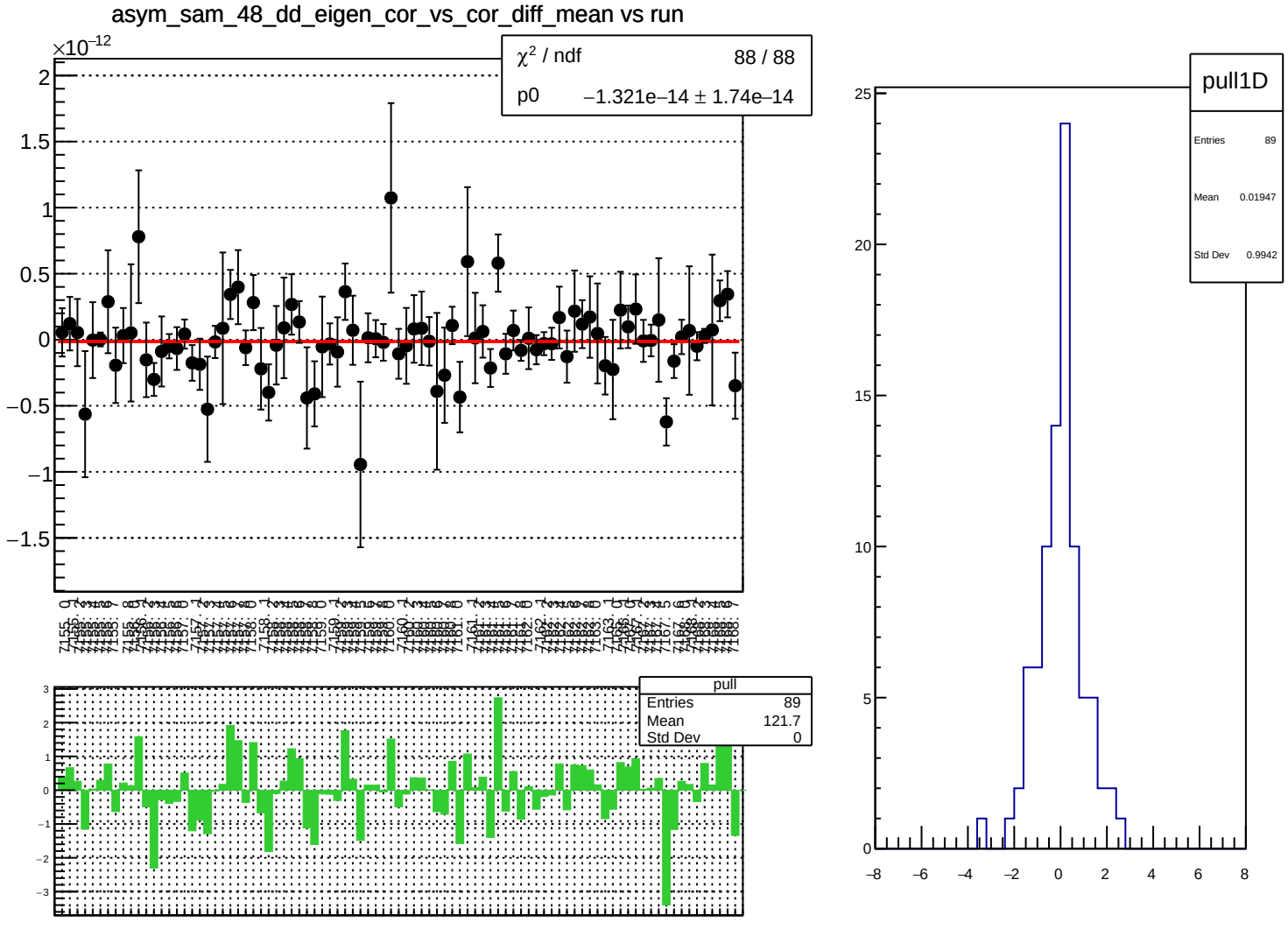

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.955e+05 / 88
p0 0.003544 ± 2.959e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

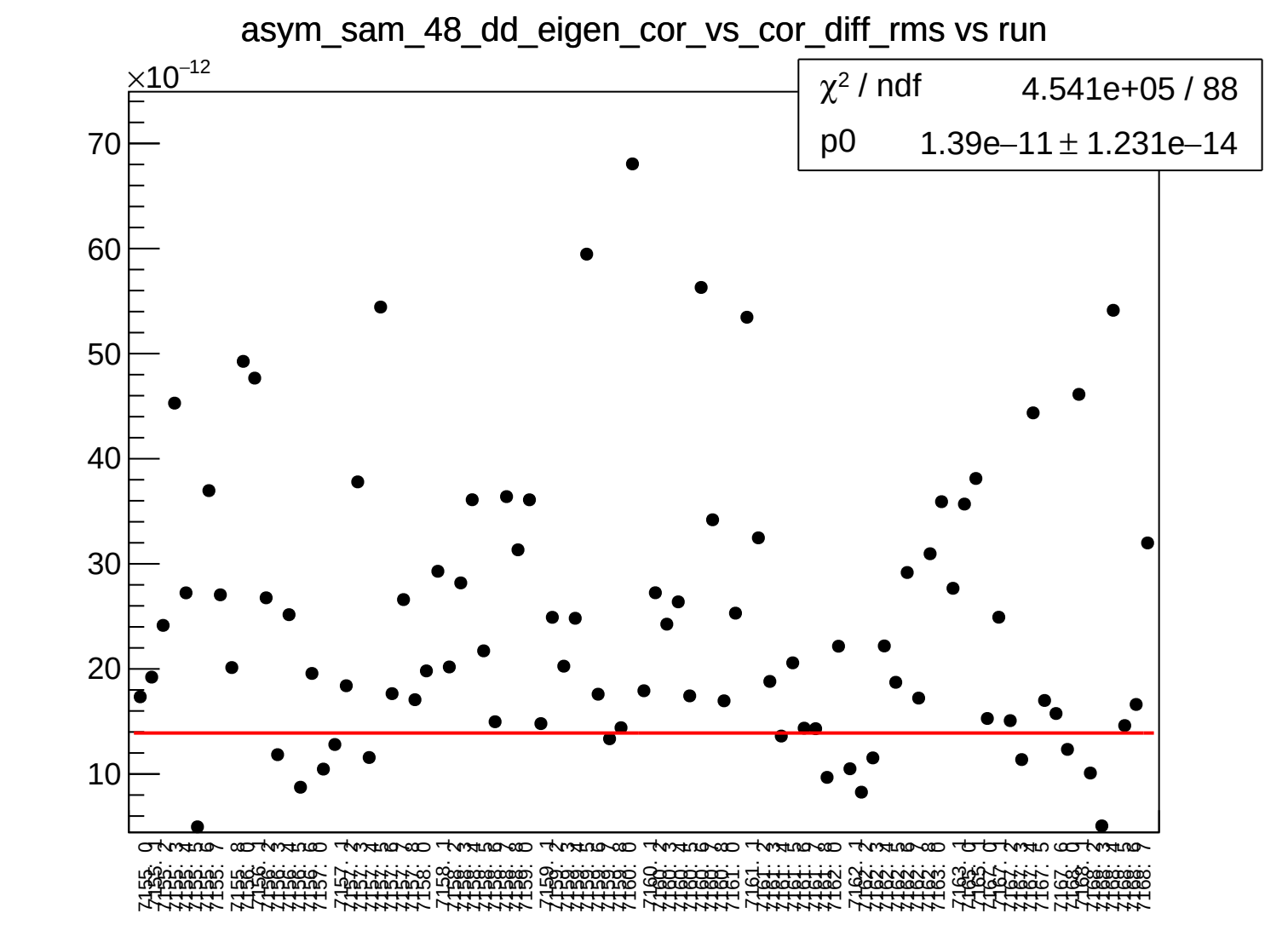

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.24 / 88
p0 −0.03679 ± 0.05292
pull
Entries 89
Mean −19.42
Std Dev 0
pull1D
Entries 89
Mean 0.03414
Std Dev 0.8813

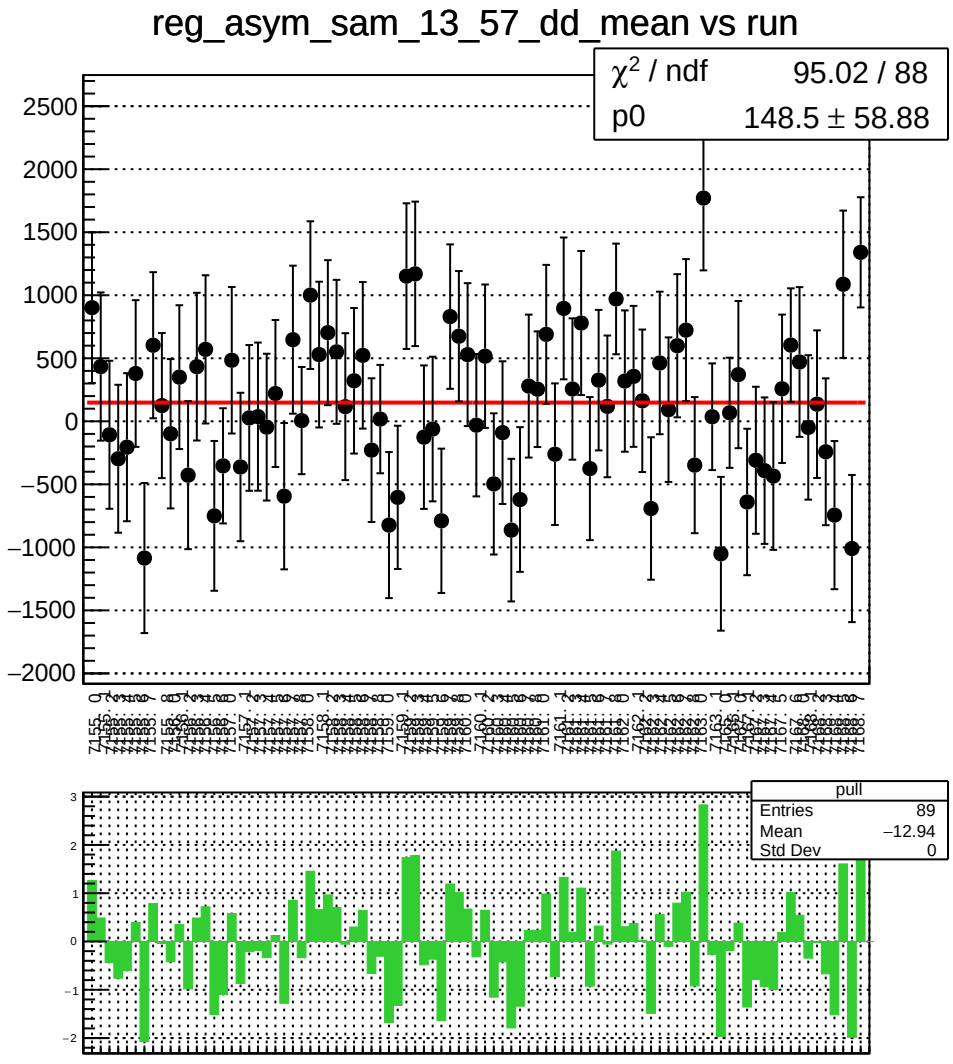

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.211e+04 / 88
p0 48.33 ± 0.03742
120
110
100
90
80
70
60
50
40

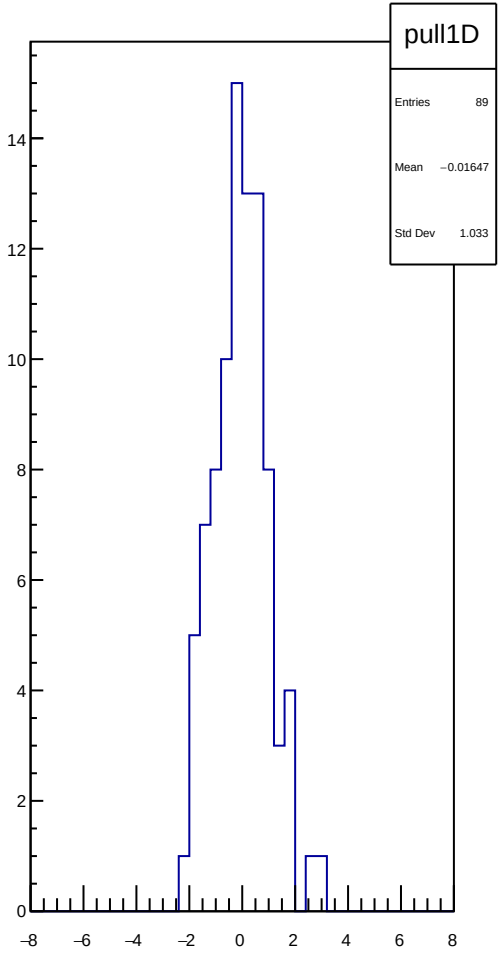

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.24 / 88
p0 −0.03679 ± 0.05292
pull
Entries 89
Mean −19.42
Std Dev 0
pull1D
Entries 89
Mean 0.03414
Std Dev 0.8813

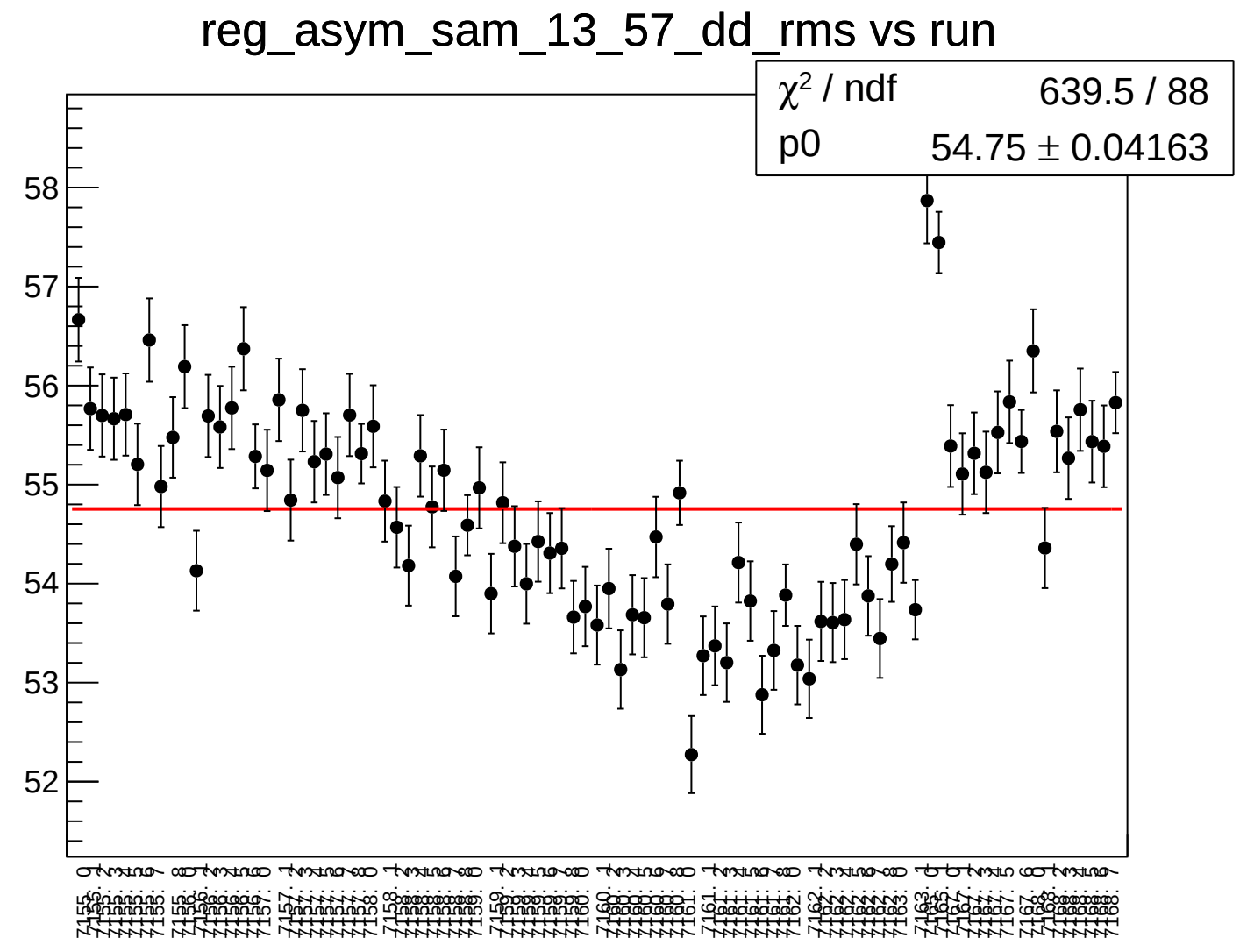

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.211e+04 / 88
p0 48.33 ± 0.03742
120
110
100
90
80
70
60
50
40

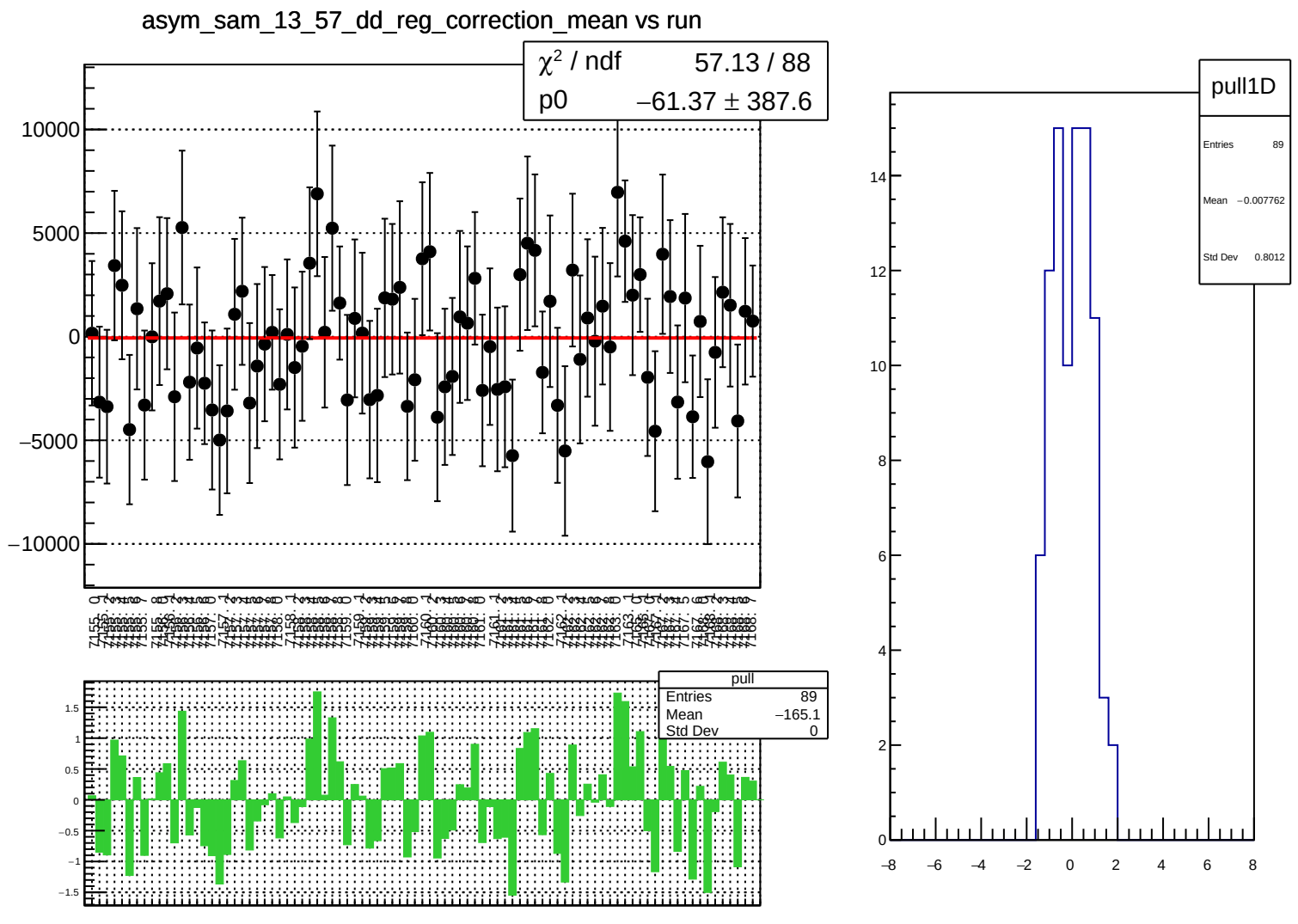

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88 / 88
p0 −1.321e−14 ± 1.74e−14
pull
Entries 89
Mean 121.7
Std Dev 0
pull1D
Entries 89
Mean 0.01947
Std Dev 0.9942

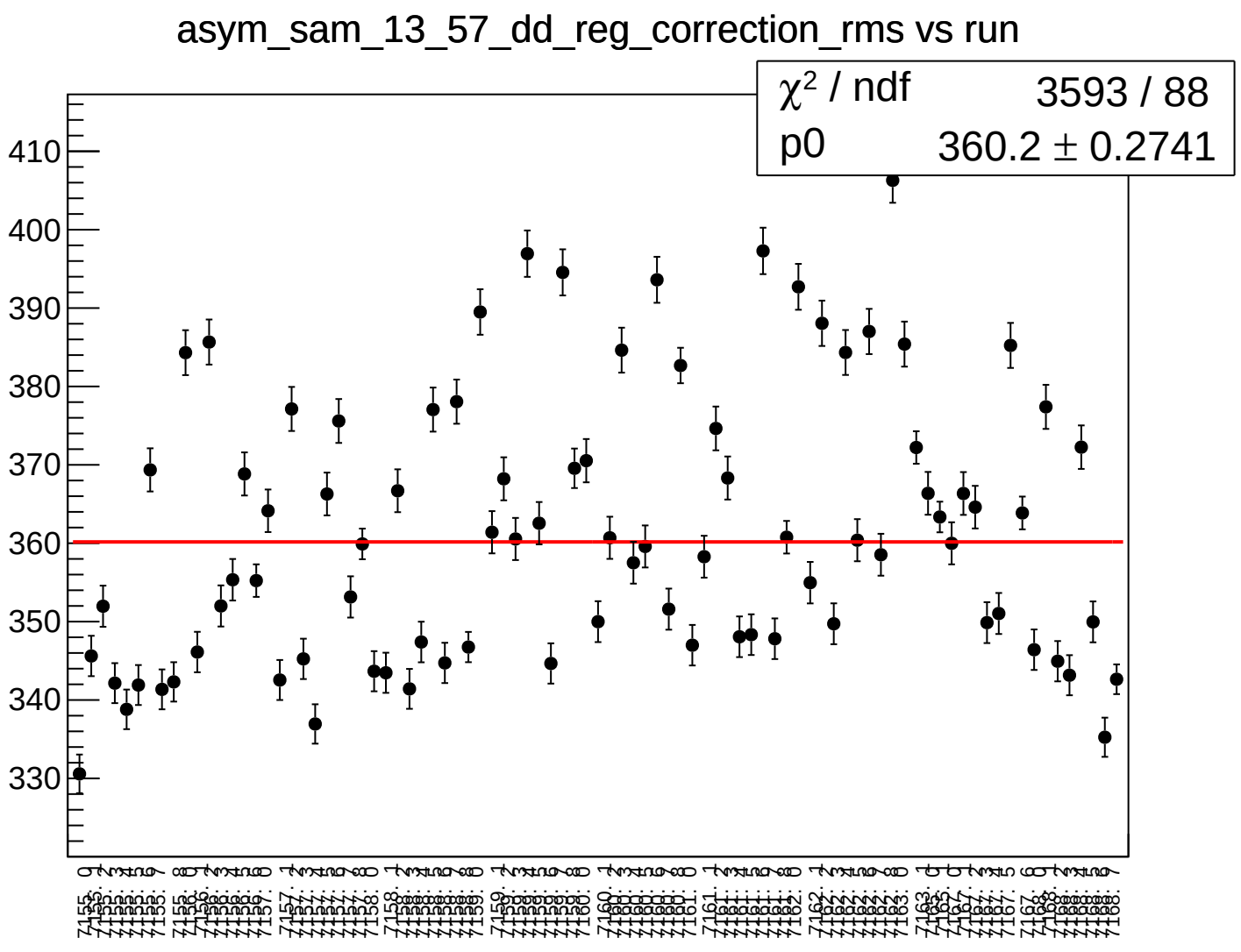

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.541e+05 / 88
p0 1.39e−11 ± 1.231e−14

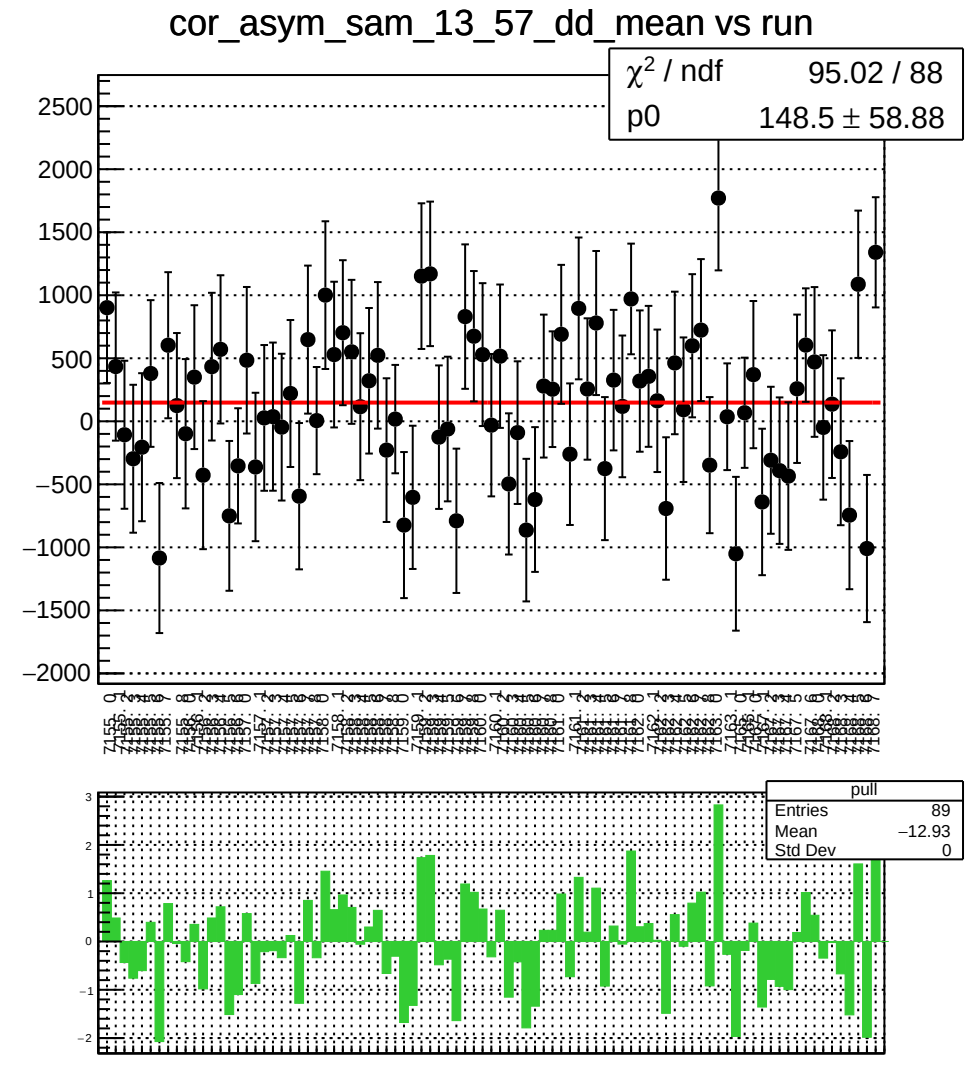

reg_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 95.02 / 88
p0 148.5 ± 58.88
pull
Entries 89
Mean −12.94
Std Dev 0

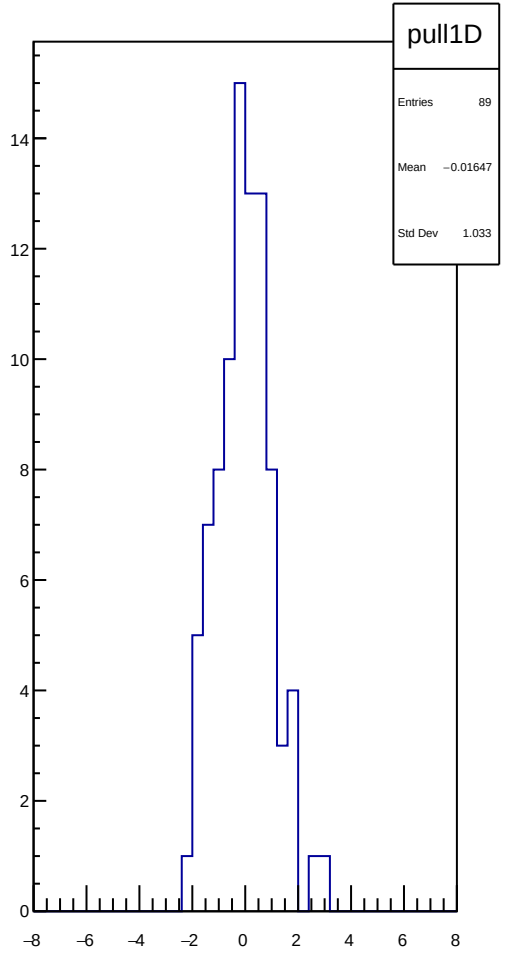

pull1D
Entries 89
Mean −0.01647
Std Dev 1.033

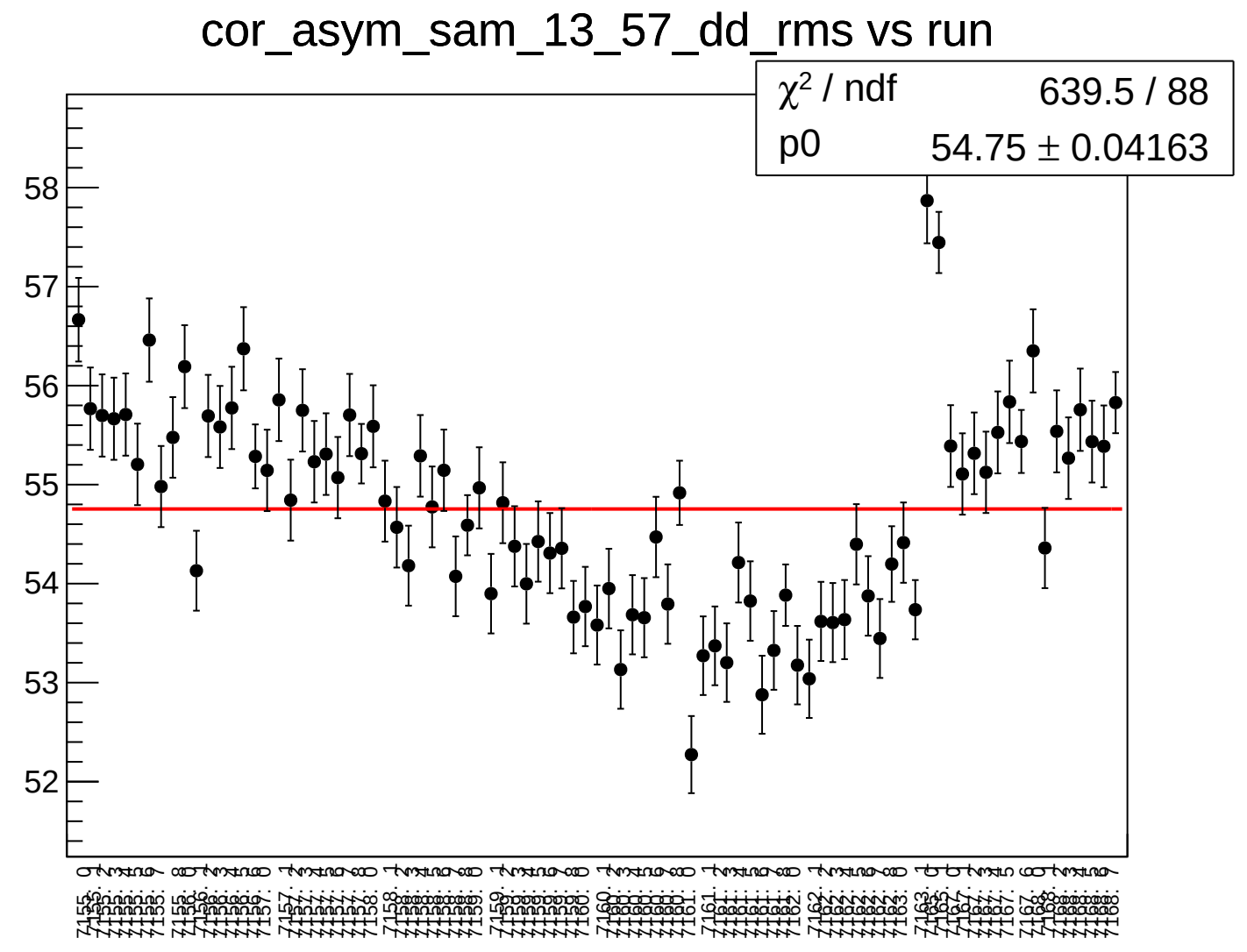

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 639.5 / 88
p0 54.75 ± 0.04163
58
57
56
55
54
53
52

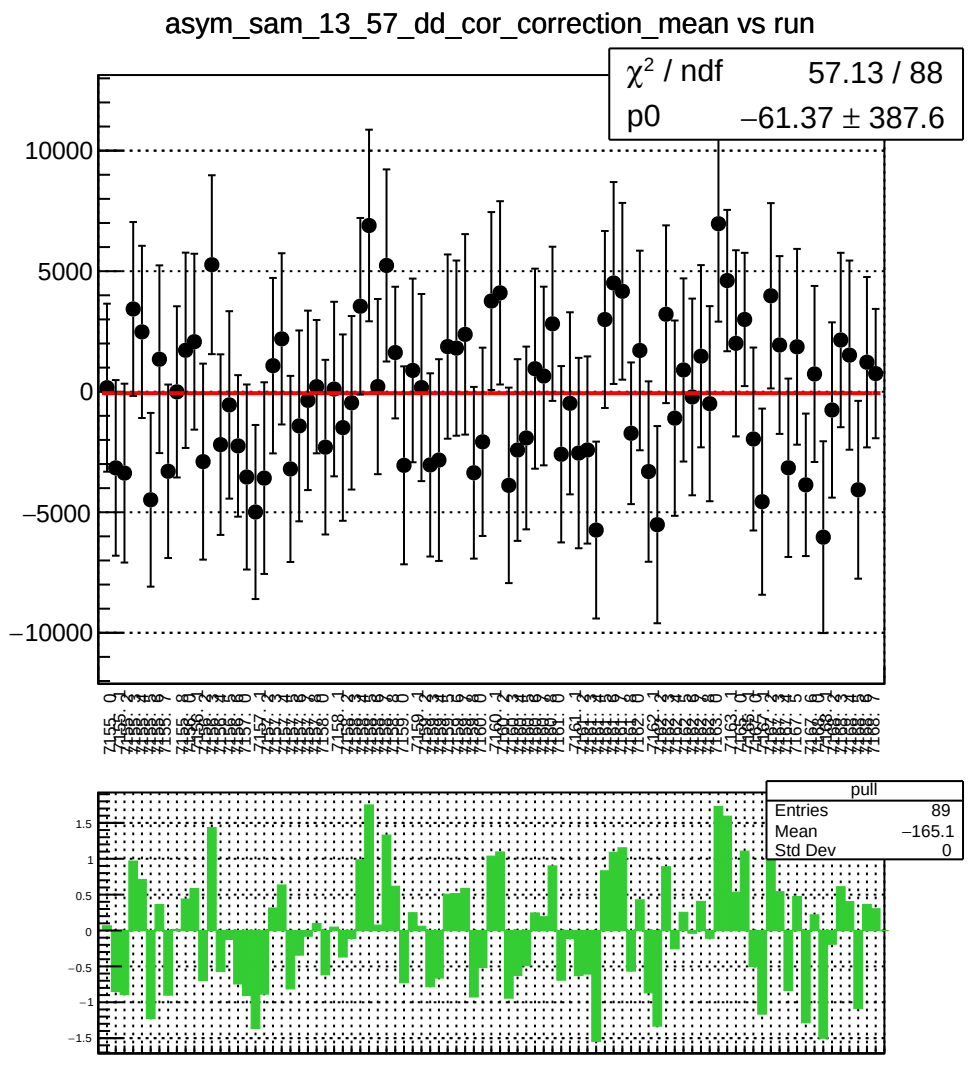

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 57.13 / 88
p0 −61.37 ± 387.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −165.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.007762
Std Dev 0.8012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

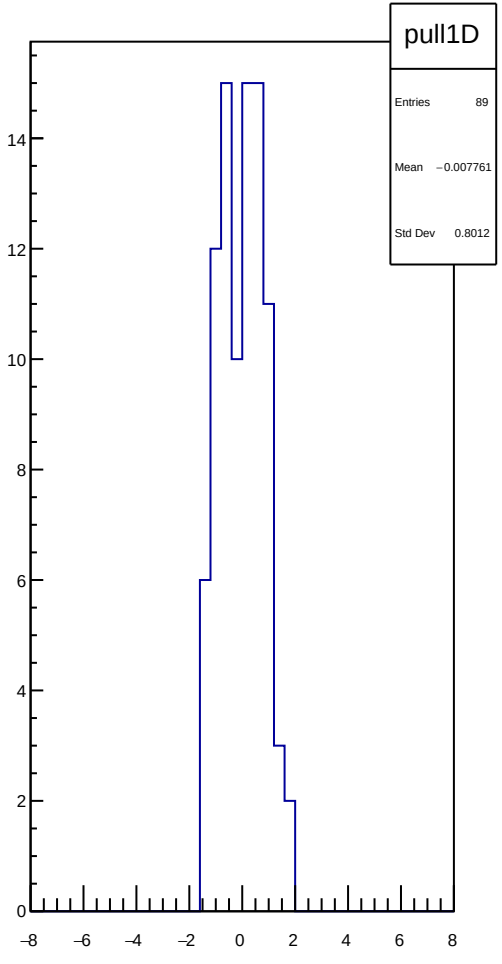

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 3593 / 88
p0 360.2 ± 0.2741
410
400
390
380
370
360
350
340
330

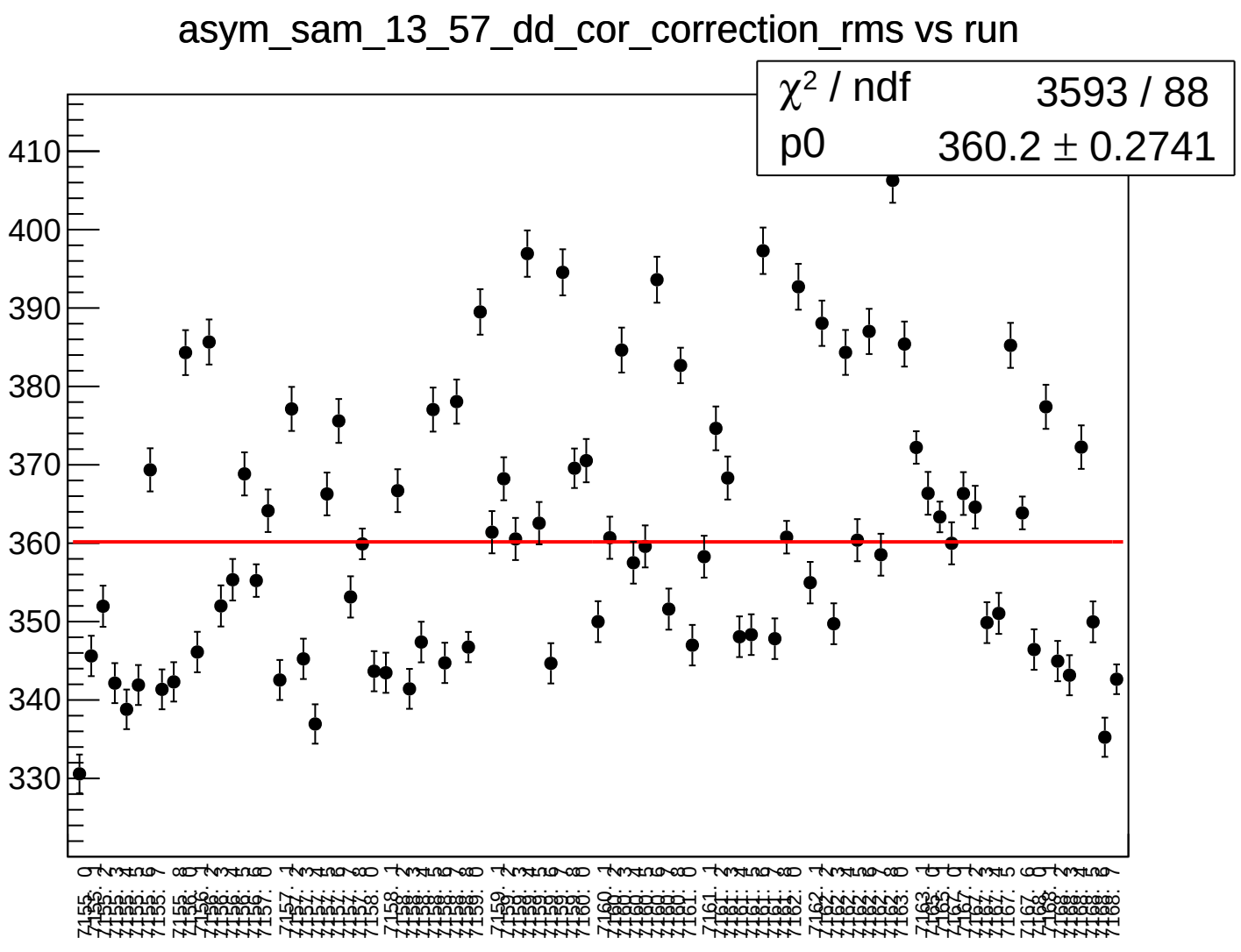

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.02 / 88
p0 148.5 ± 58.88
pull
Entries 89
Mean −12.93
Std Dev 0

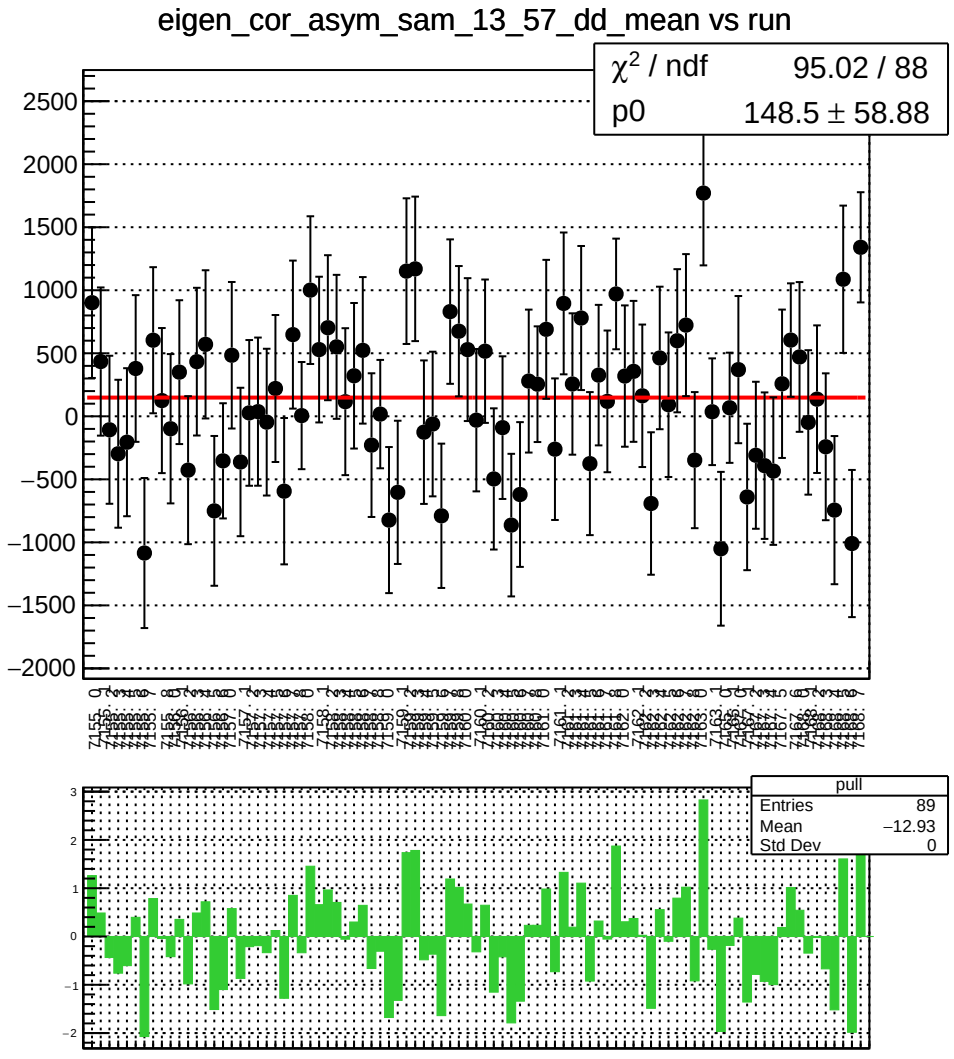

pull1D
Entries 89
Mean −0.01647
Std Dev 1.033

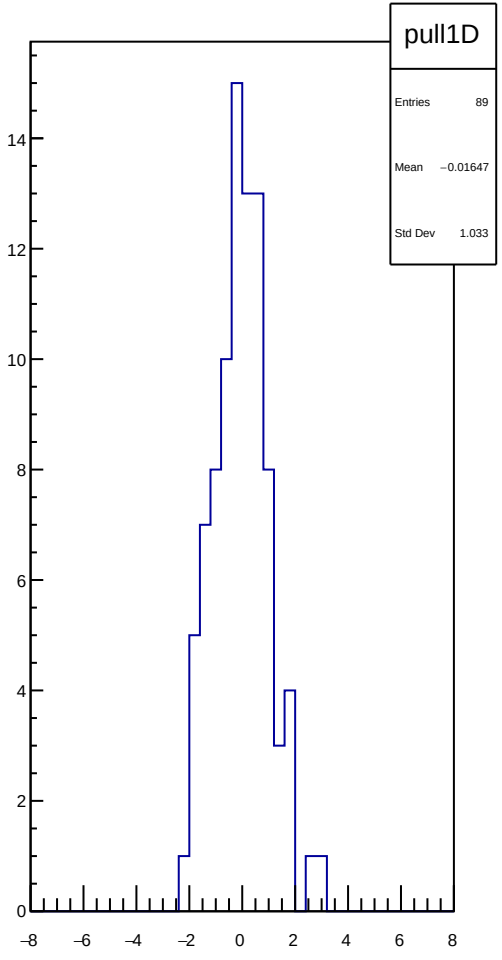

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 639.5 / 88
p0 54.75 ± 0.04163
58
57
56
55
54
53
52

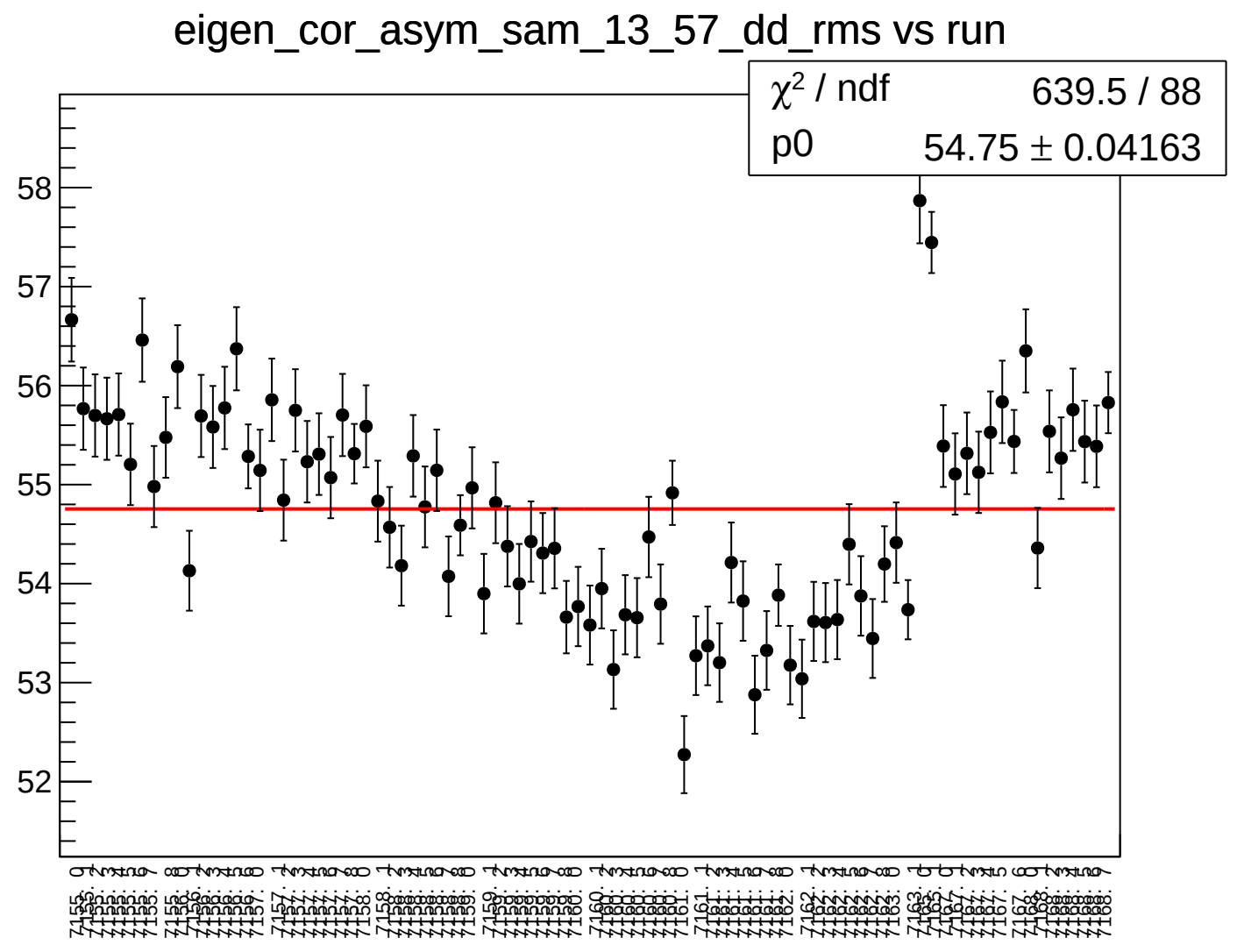

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 57.13 / 88
p0 −61.37 ± 387.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −165.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

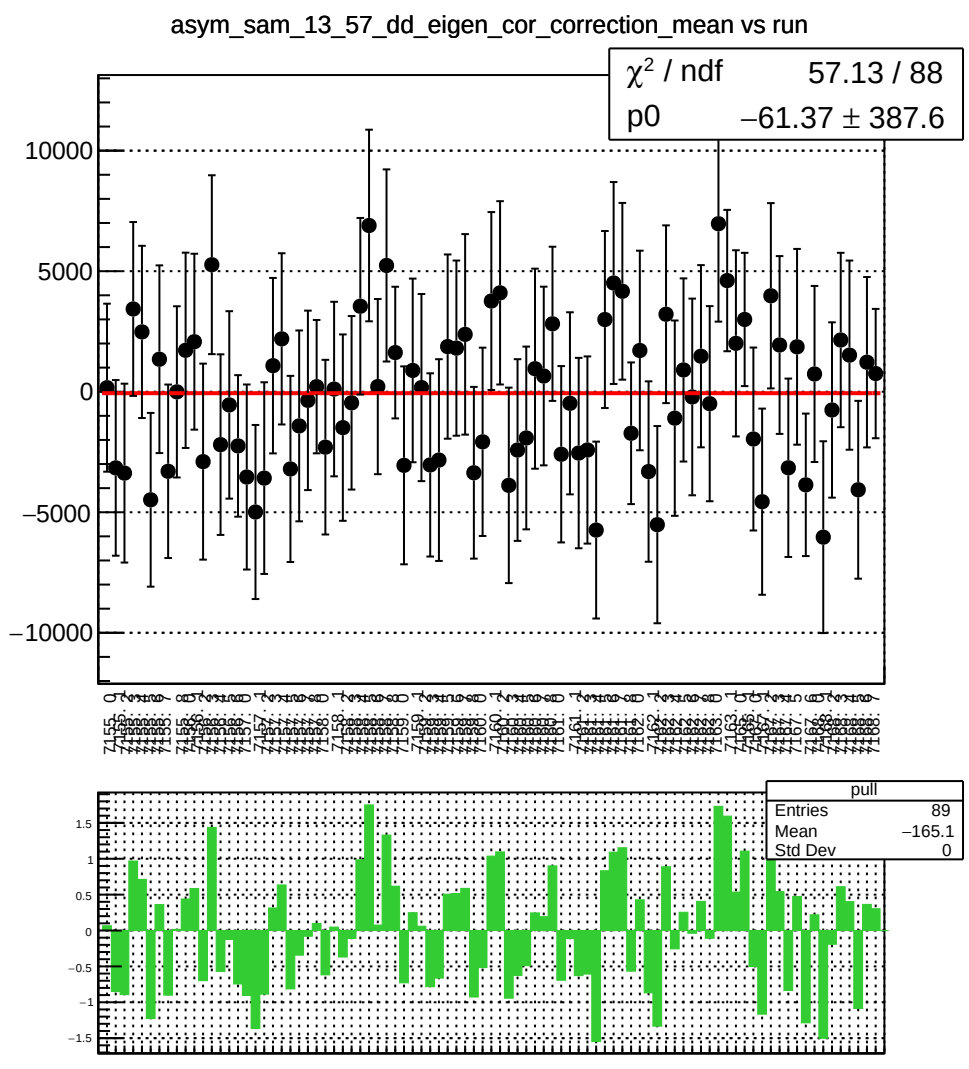

pull1D
Entries 89
Mean −0.007761
Std Dev 0.8012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

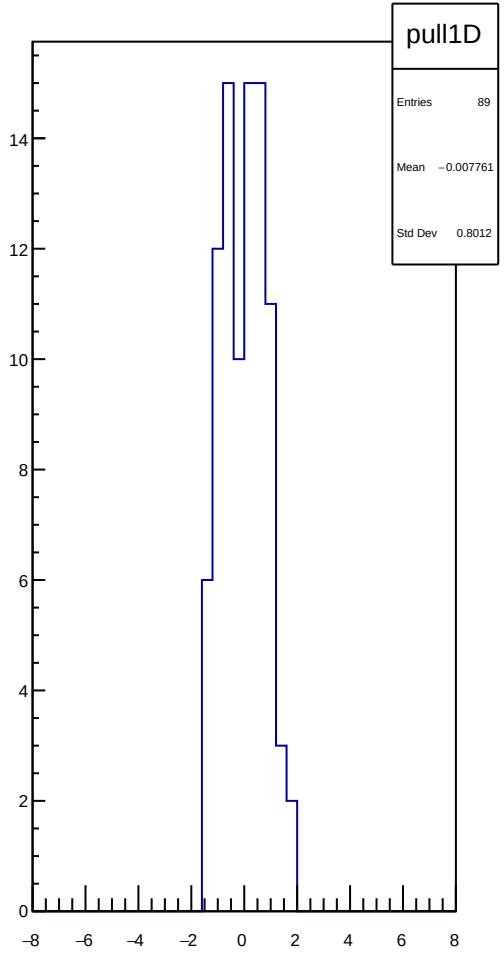

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 3593 / 88
p0 360.2 ± 0.2741
410
400
390
380
370
360
350
340
330

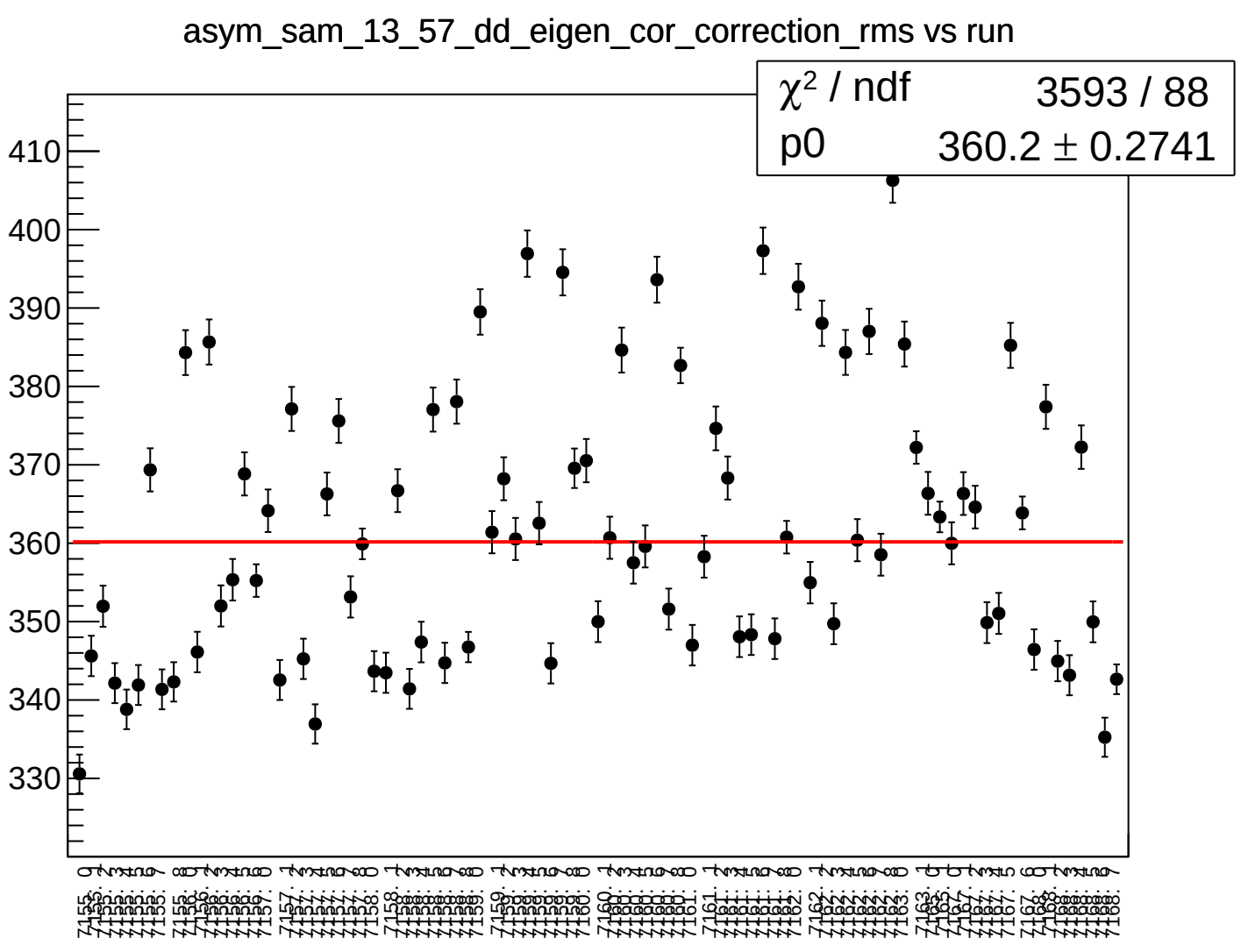

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 95.02 / 88
p0 148.5 ± 58.88
pull
Entries 89
Mean −12.93
Std Dev 0

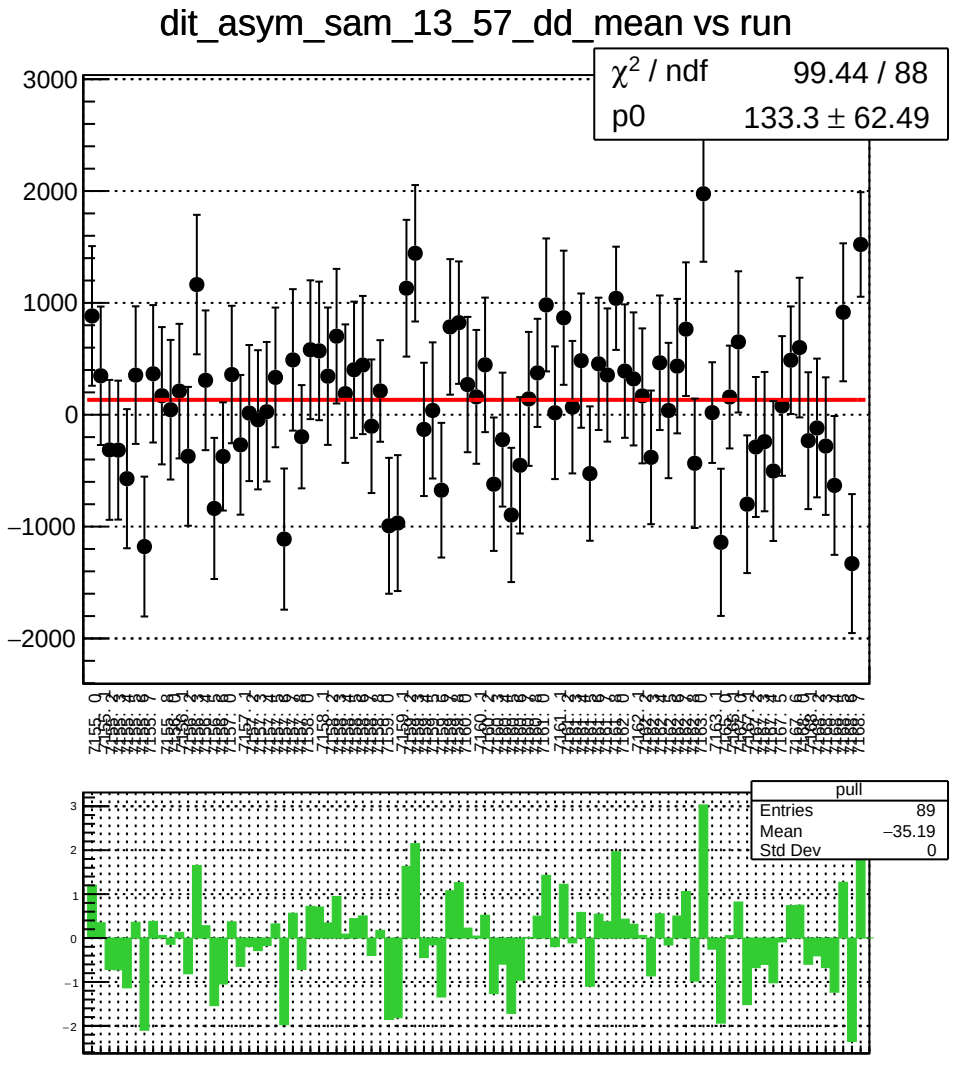

pull1D
Entries 89
Mean −0.01647
Std Dev 1.033

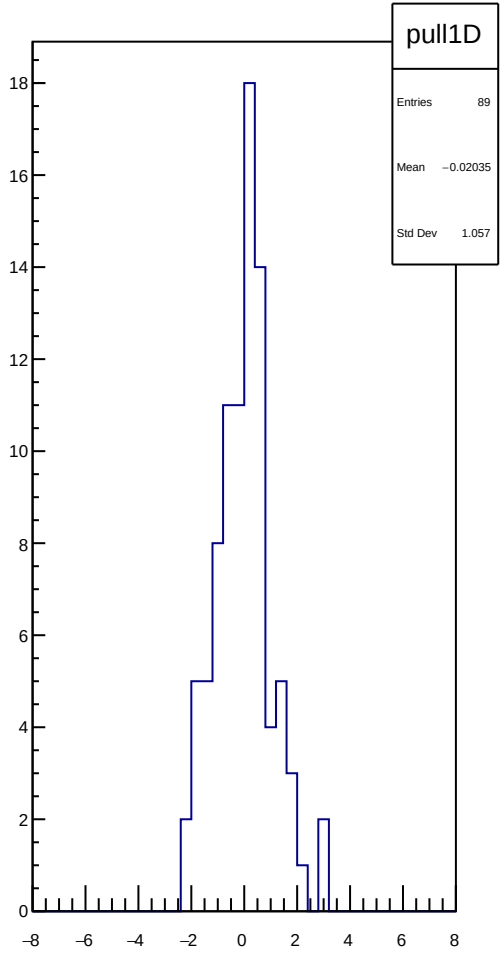

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 639.5 / 88
p0 54.75 ± 0.04163
58
57
56
55
54
53
52

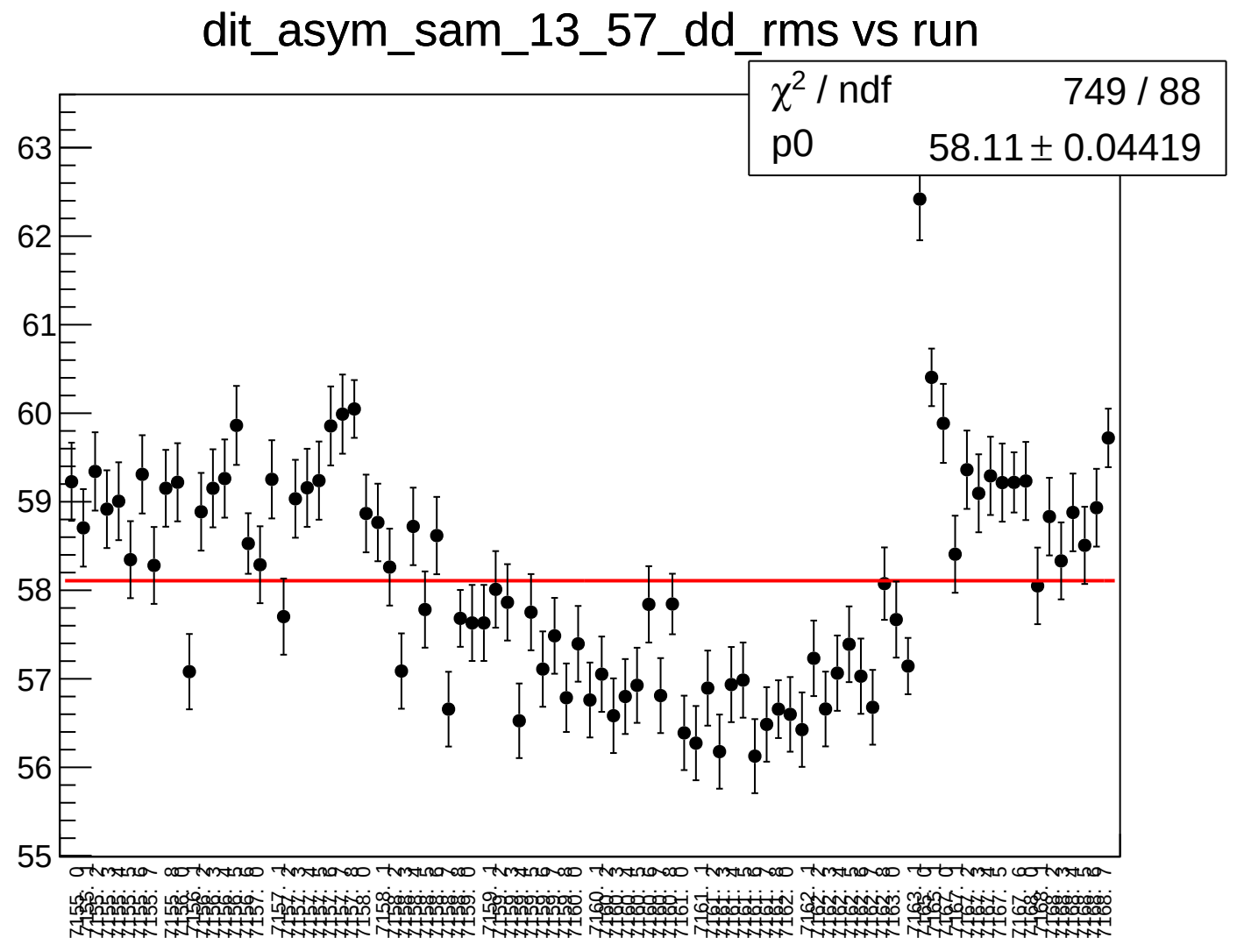

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 57.13 / 88
p0 −61.37 ± 387.6
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −165.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

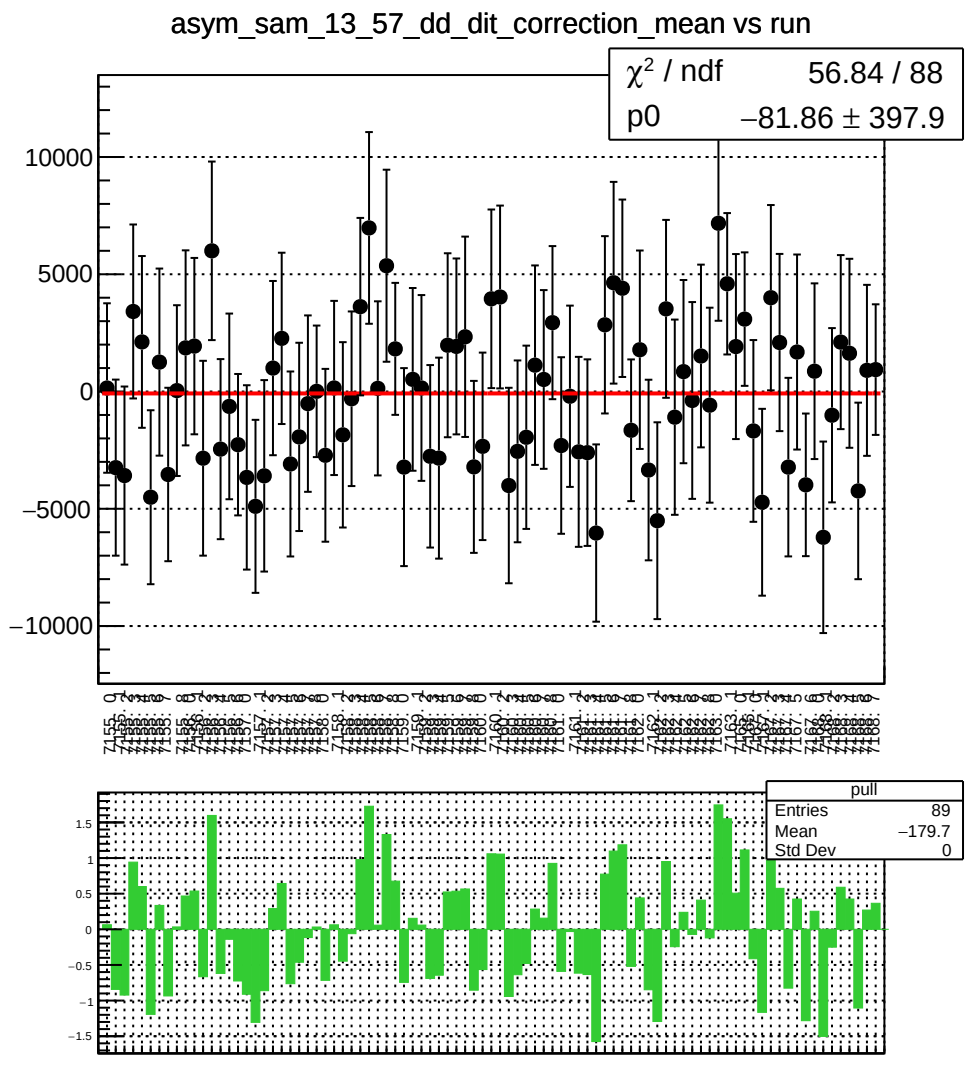

pull1D
Entries 89
Mean −0.007761
Std Dev 0.8012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

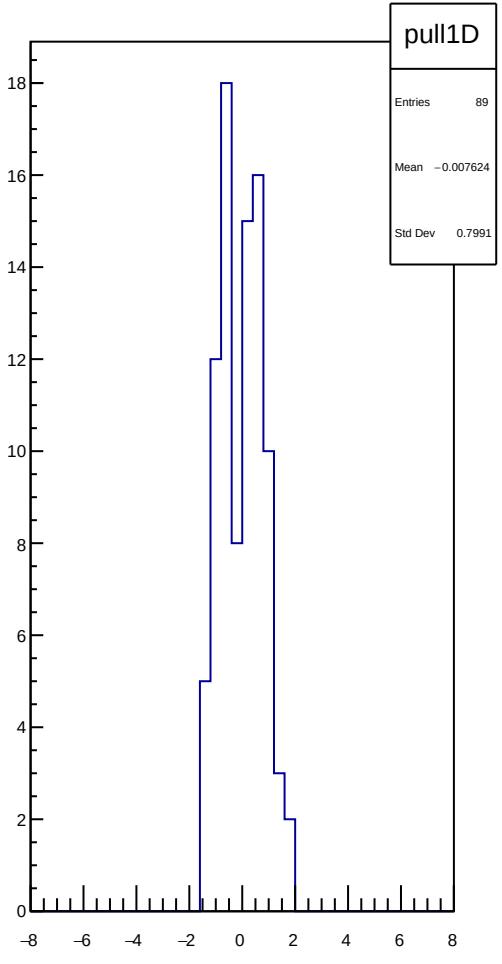

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 3593 / 88
p0 360.2 ± 0.2741
410
400
390
380
370
360
350
340
330

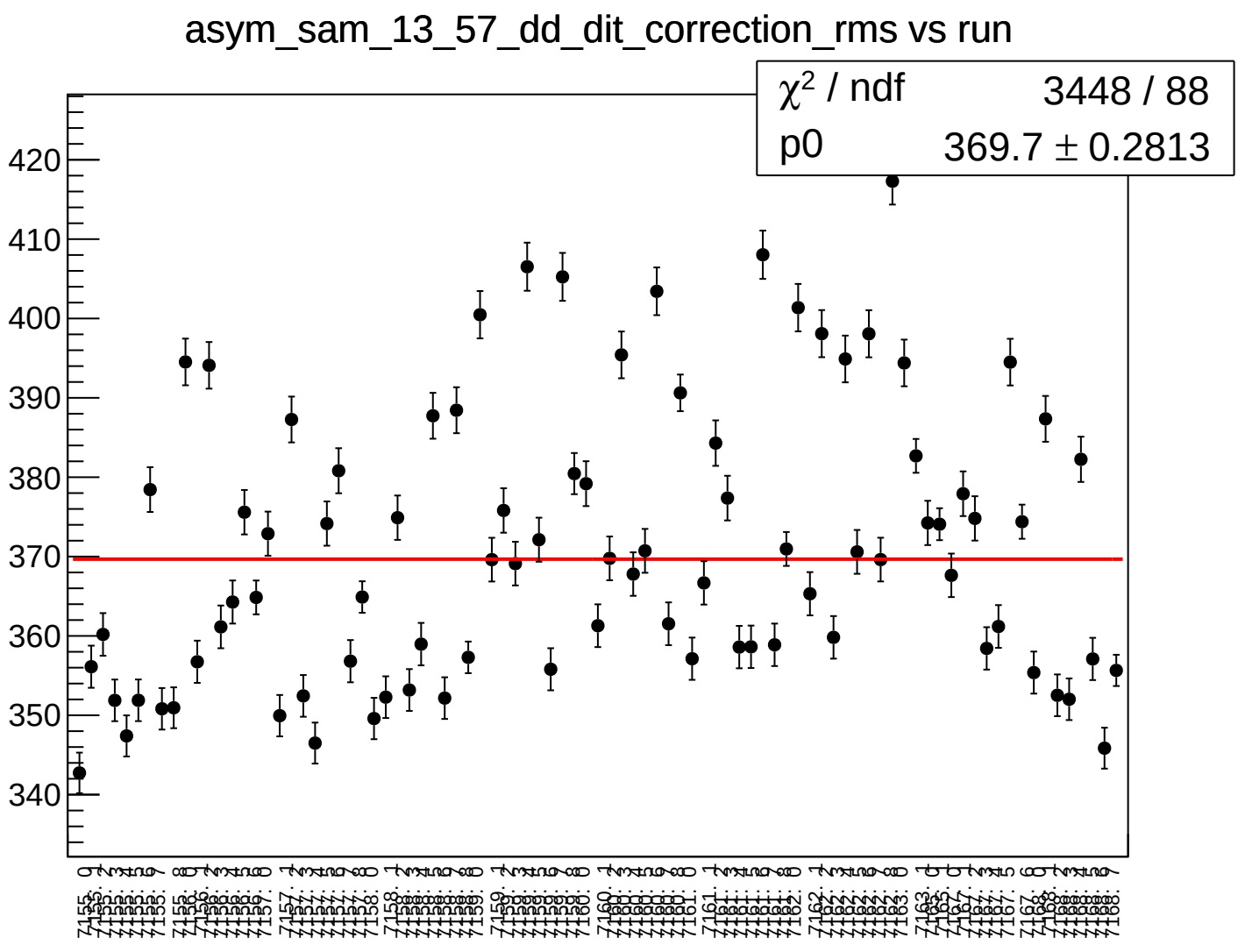

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 99.44 / 88
p0 133.3 ± 62.49
pull
Entries 89
Mean −35.19
Std Dev 0

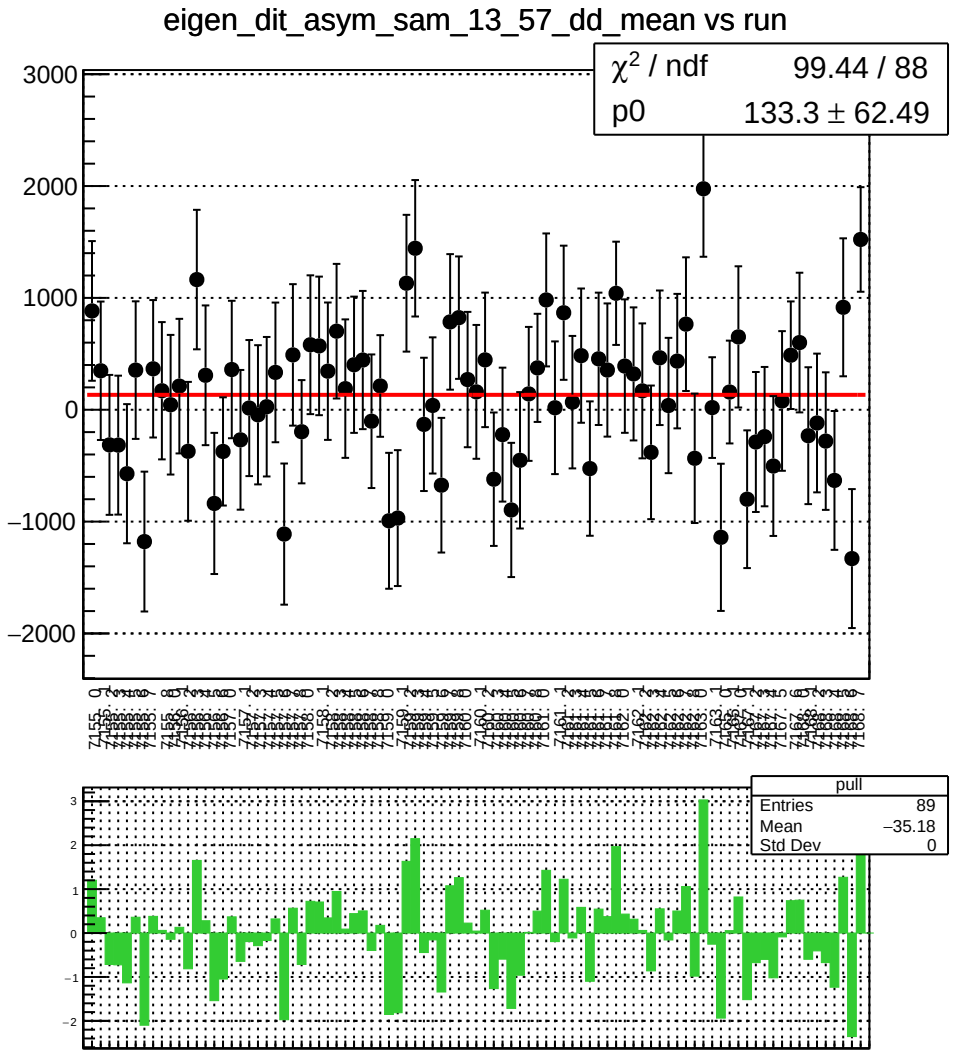

pull1D
Entries 89
Mean −0.02035
Std Dev 1.057

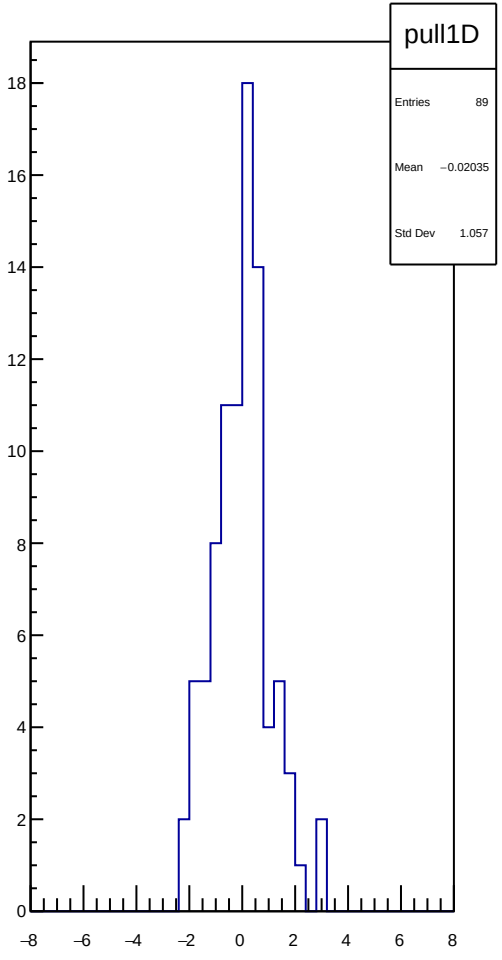

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 749 / 88
p0 58.11 ± 0.04419
63
62
61
60
59
58
57
56
55

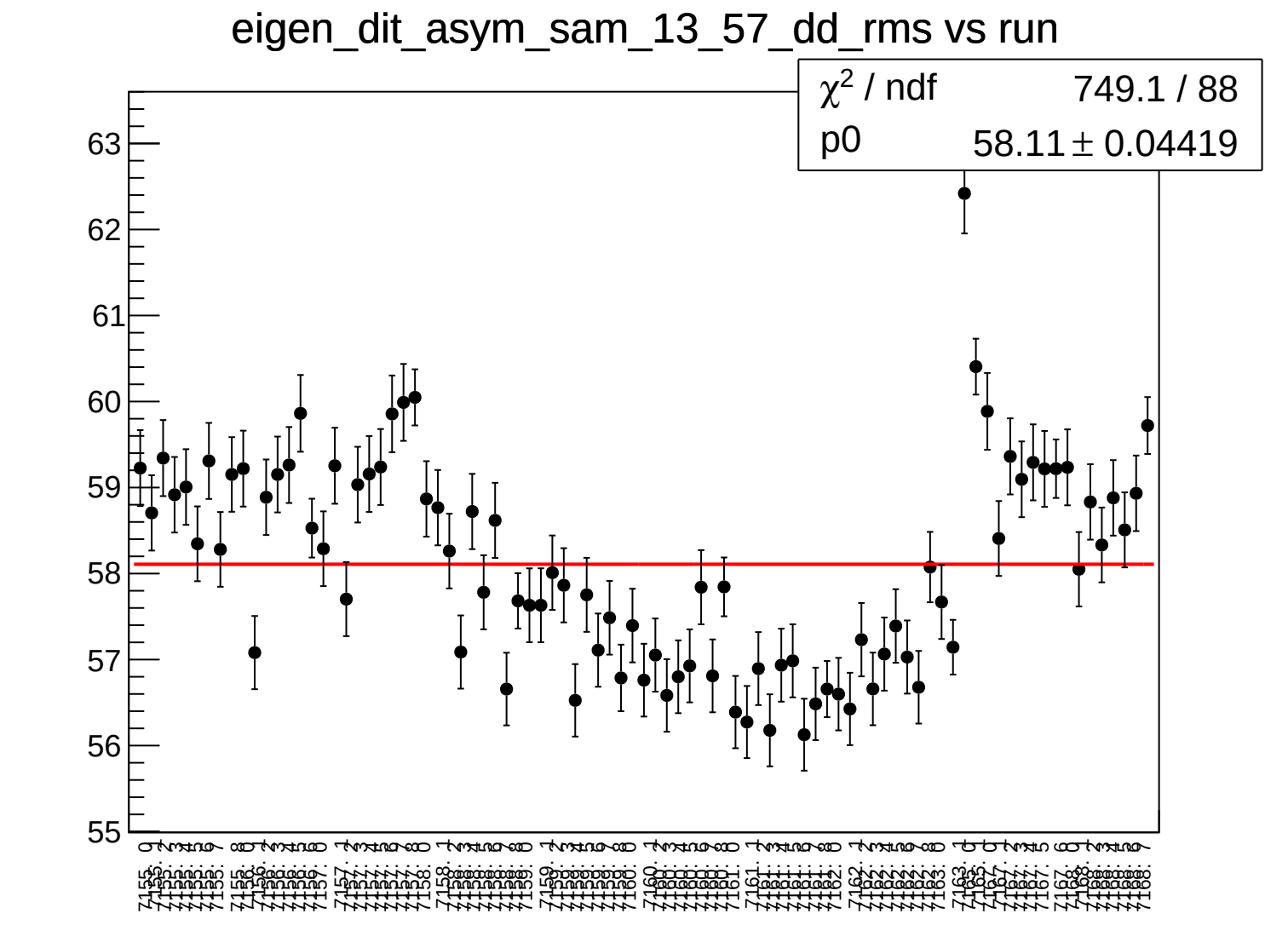

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 56.84 / 88
p0 −81.86 ± 397.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −179.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

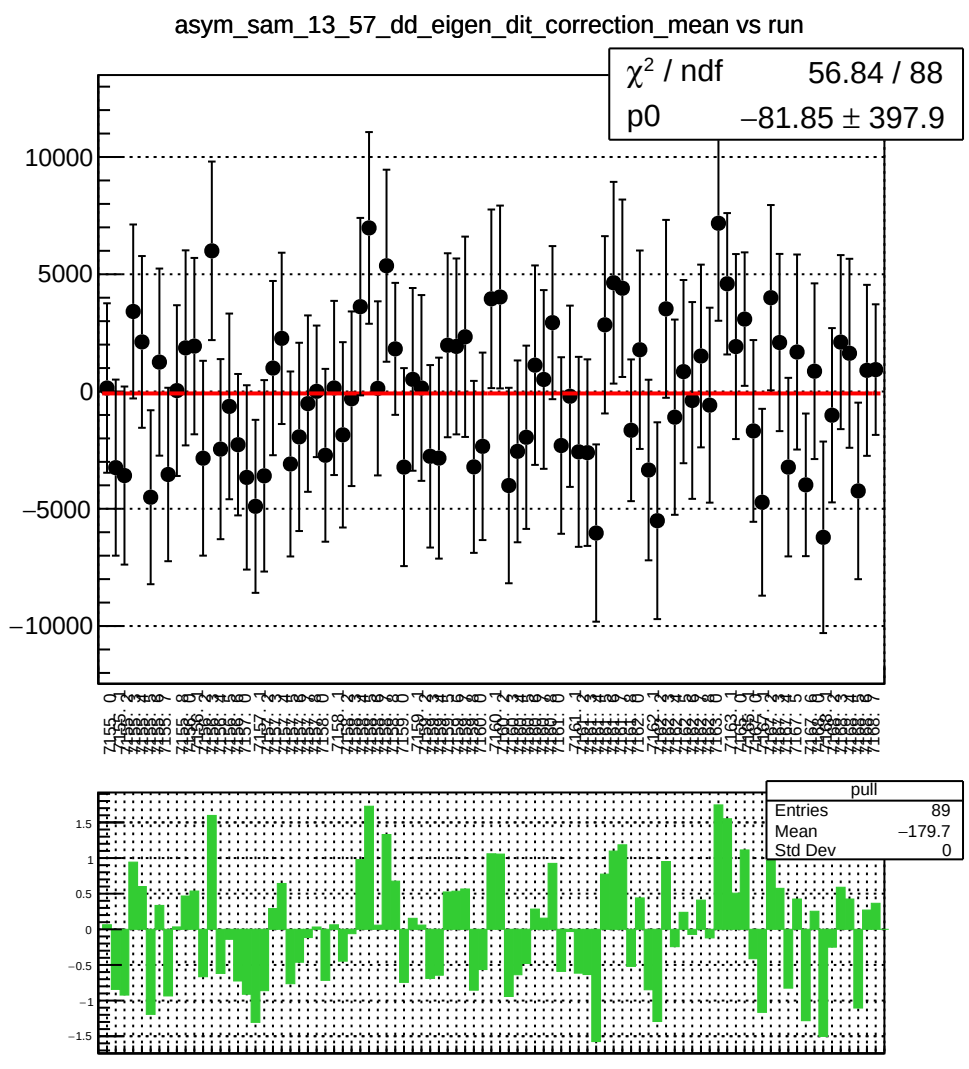

pull1D
Entries 89
Mean −0.007624
Std Dev 0.7991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

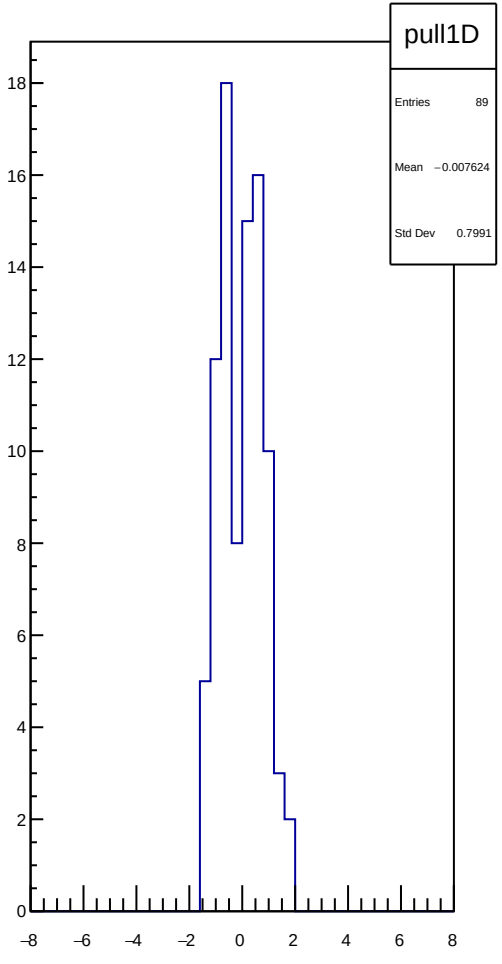

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 3448 / 88
p0 369.7 ± 0.2813
420
410
400
390
380
370
360
350
340

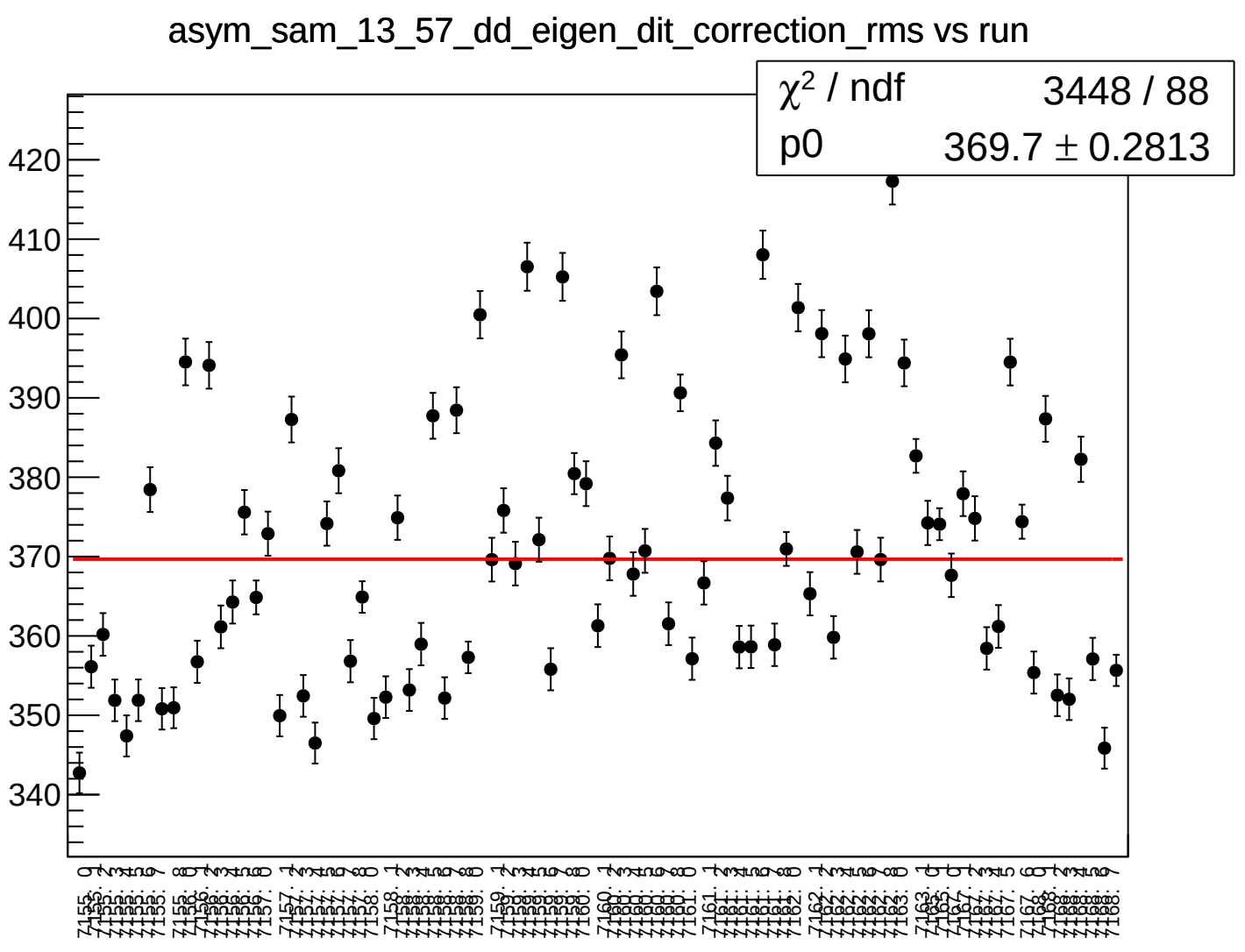

eigen_dit_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 99.44 / 88
p0 133.3 ± 62.49
pull
Entries 89
Mean −35.18
Std Dev 0

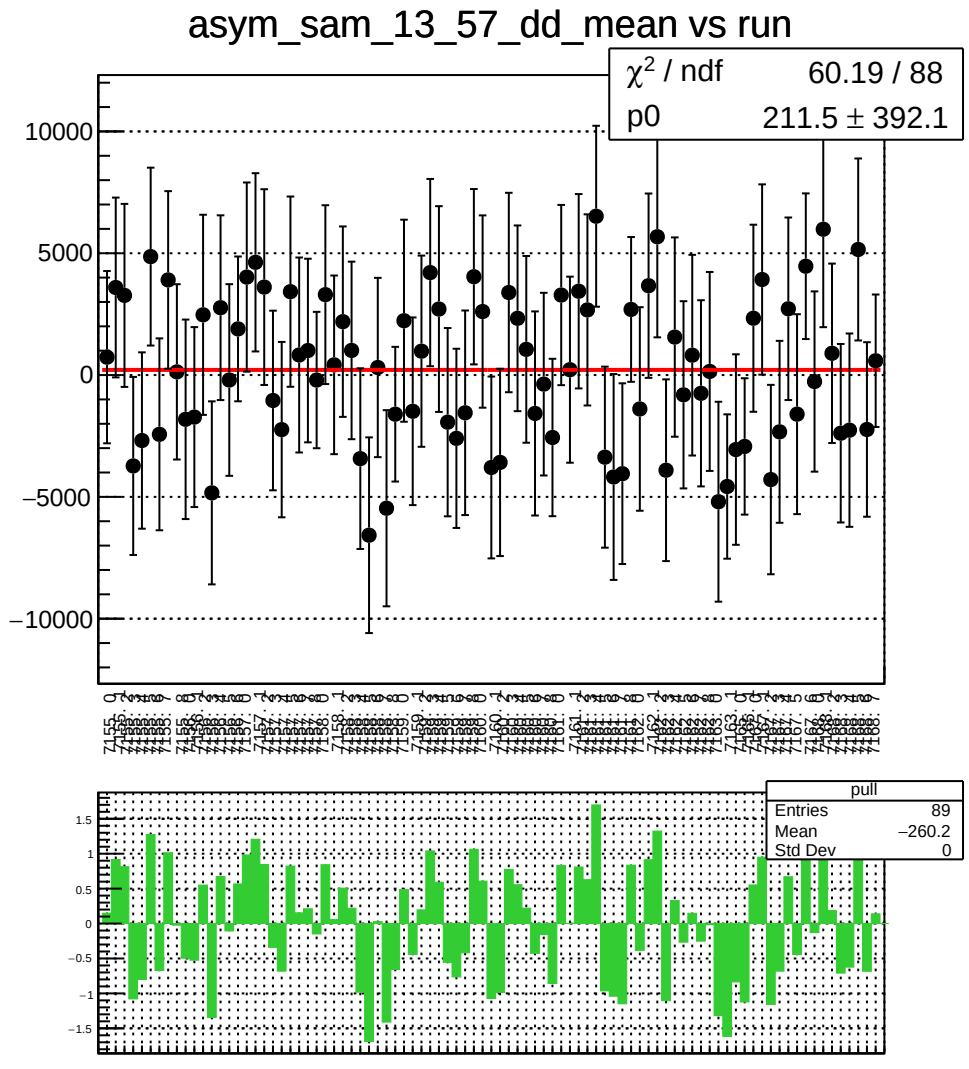

pull1D
Entries 89
Mean −0.02035
Std Dev 1.057

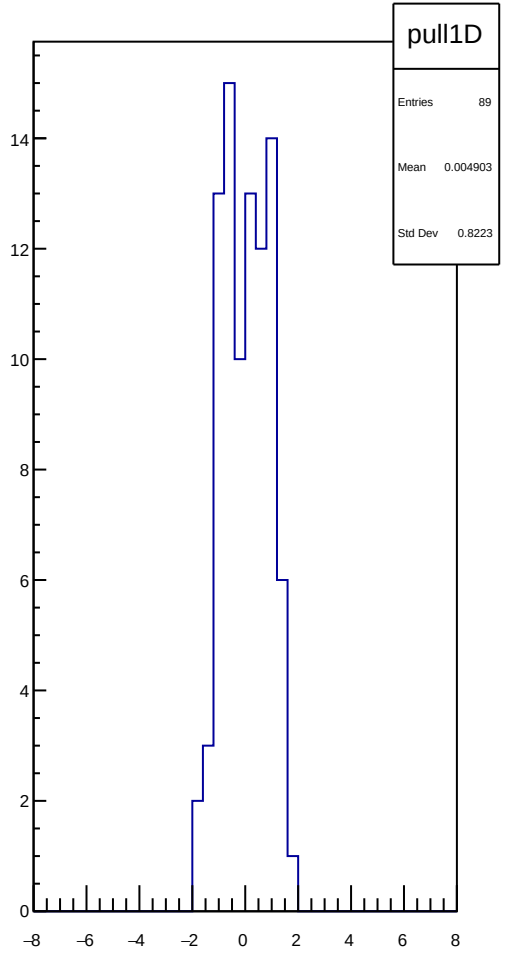

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 749.1 / 88
p0 58.11 ± 0.04419
63
62
61
60
59
58
57
56
55

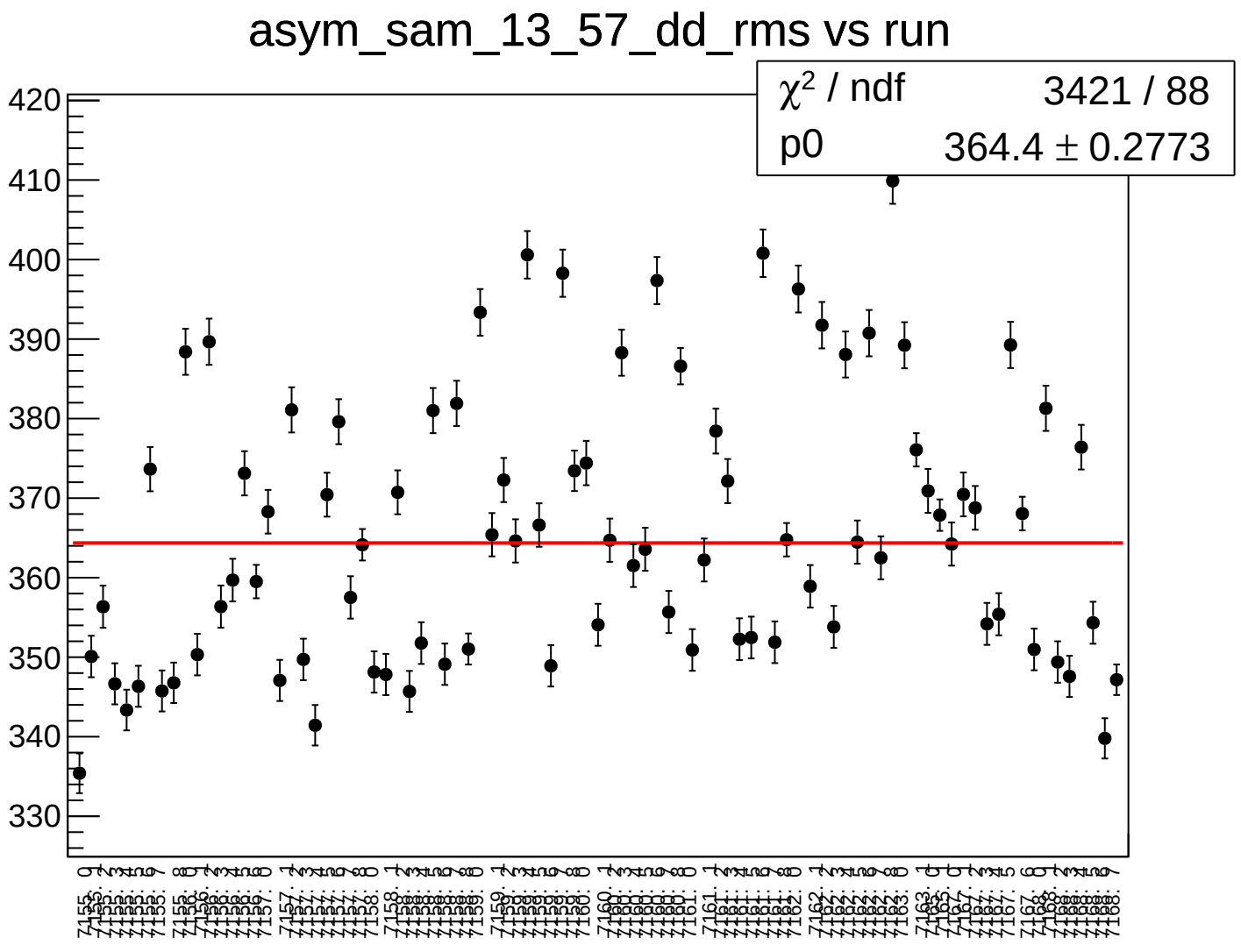

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 56.84 / 88
p0 −81.85 ± 397.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −179.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

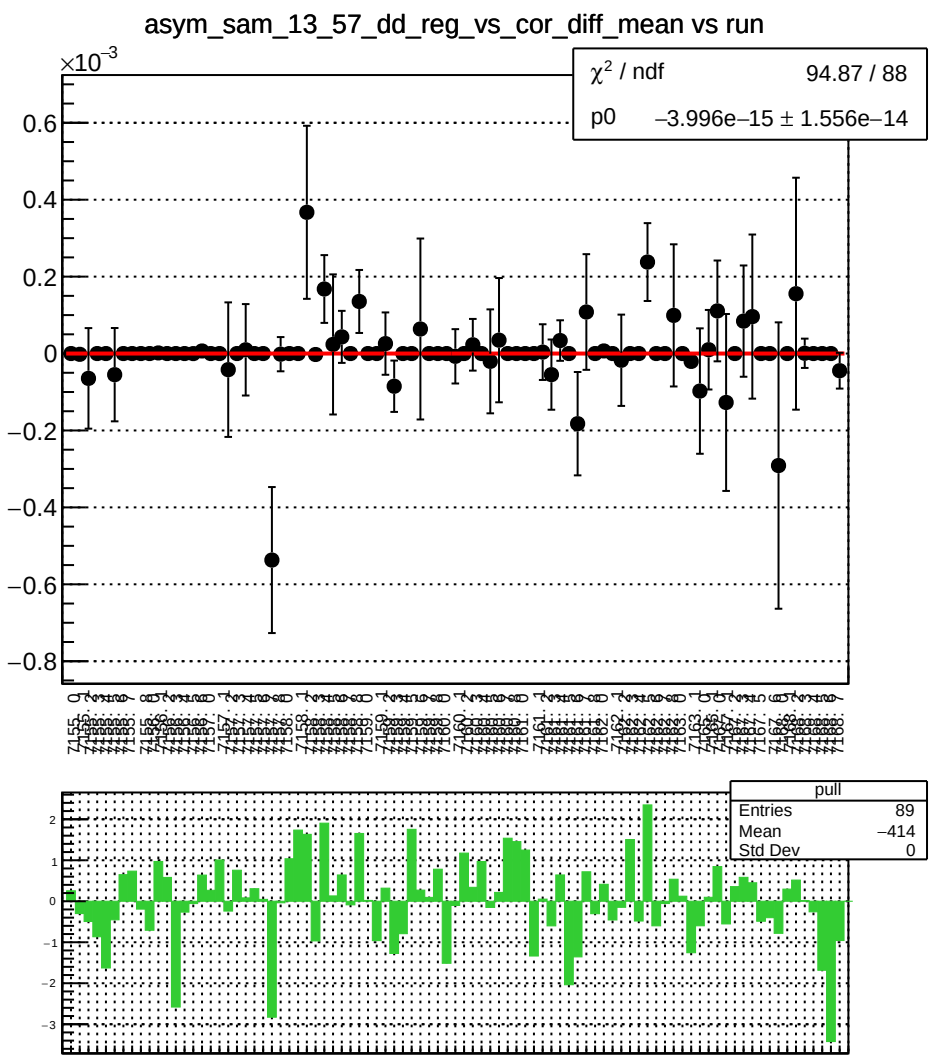

pull1D
Entries 89
Mean −0.007624
Std Dev 0.7991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

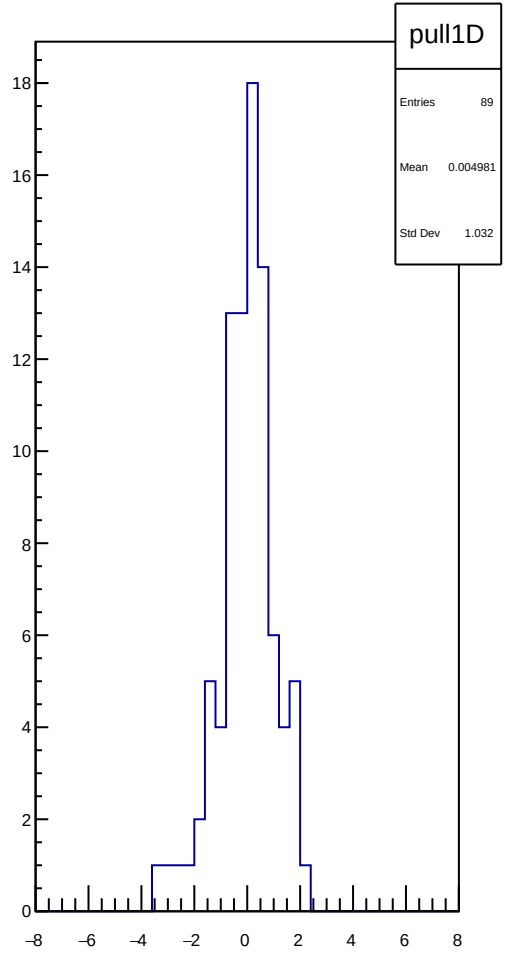

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 3448 / 88
p0 369.7 ± 0.2813
420
410
400
390
380
370
360
350
340

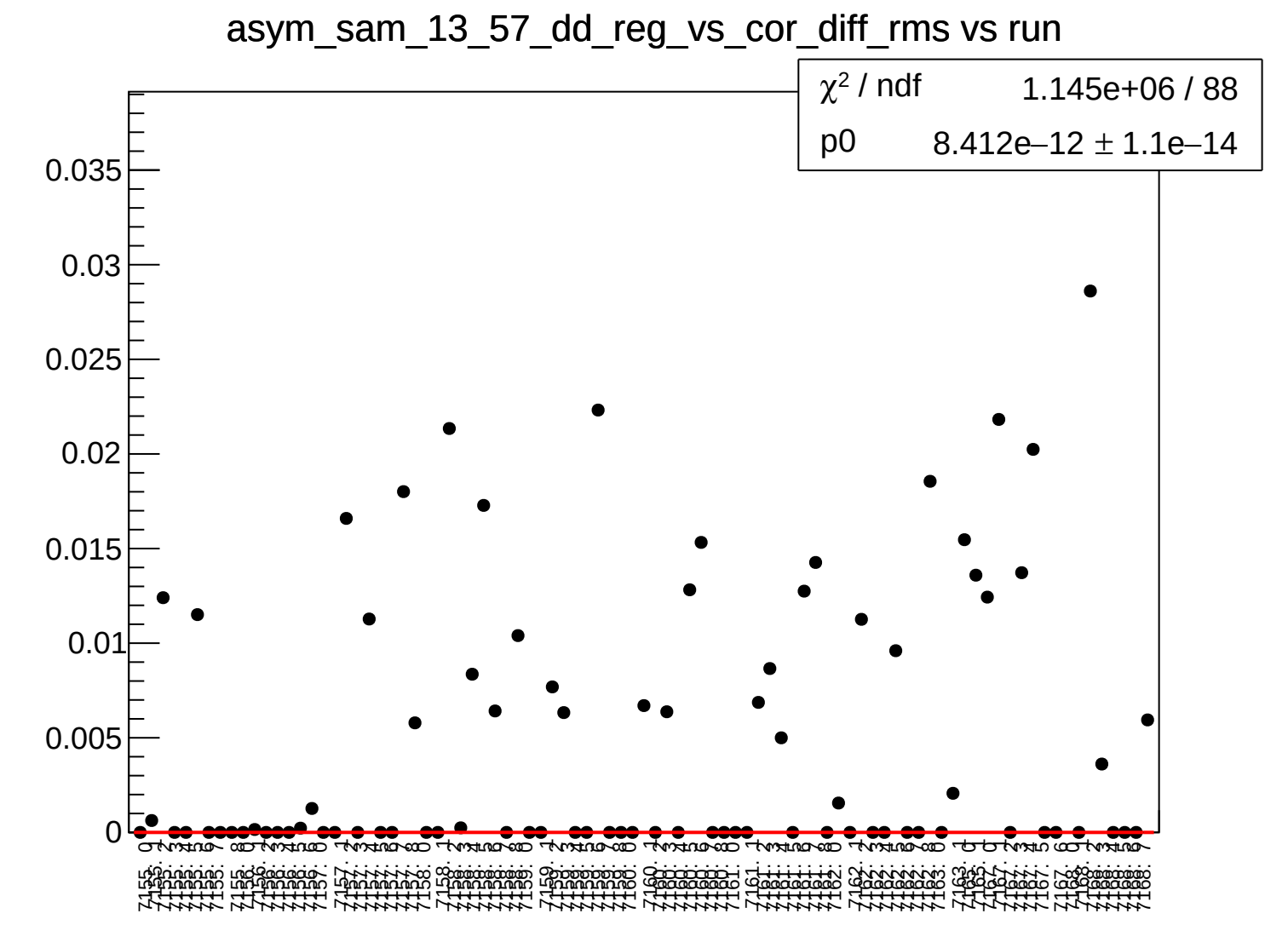

asym_sam_13_57_dd_mean vs run
χ² / ndf 60.19 / 88
p0 211.5 ± 392.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −260.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

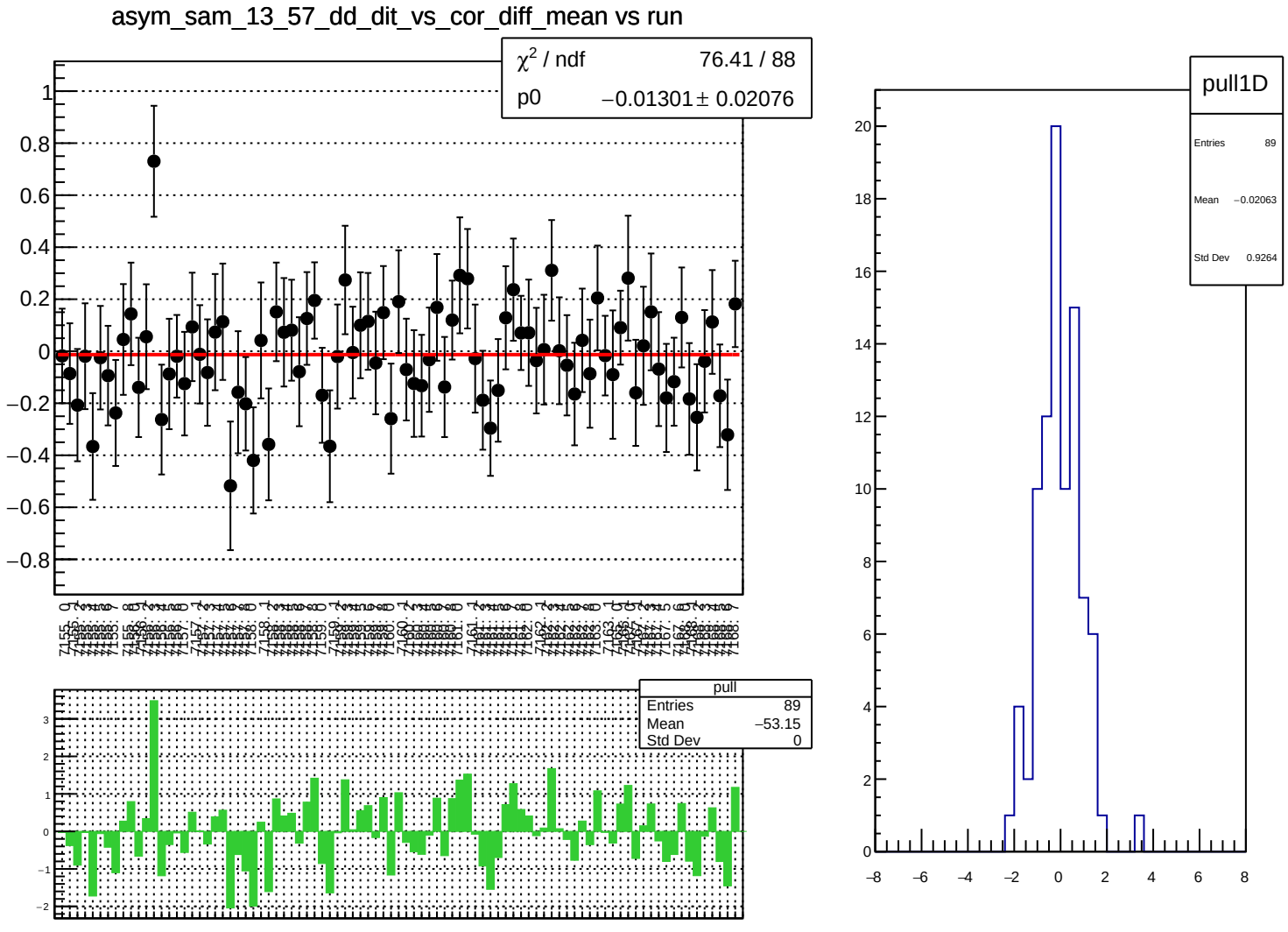

pull1D
Entries 89
Mean 0.004903
Std Dev 0.8223
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

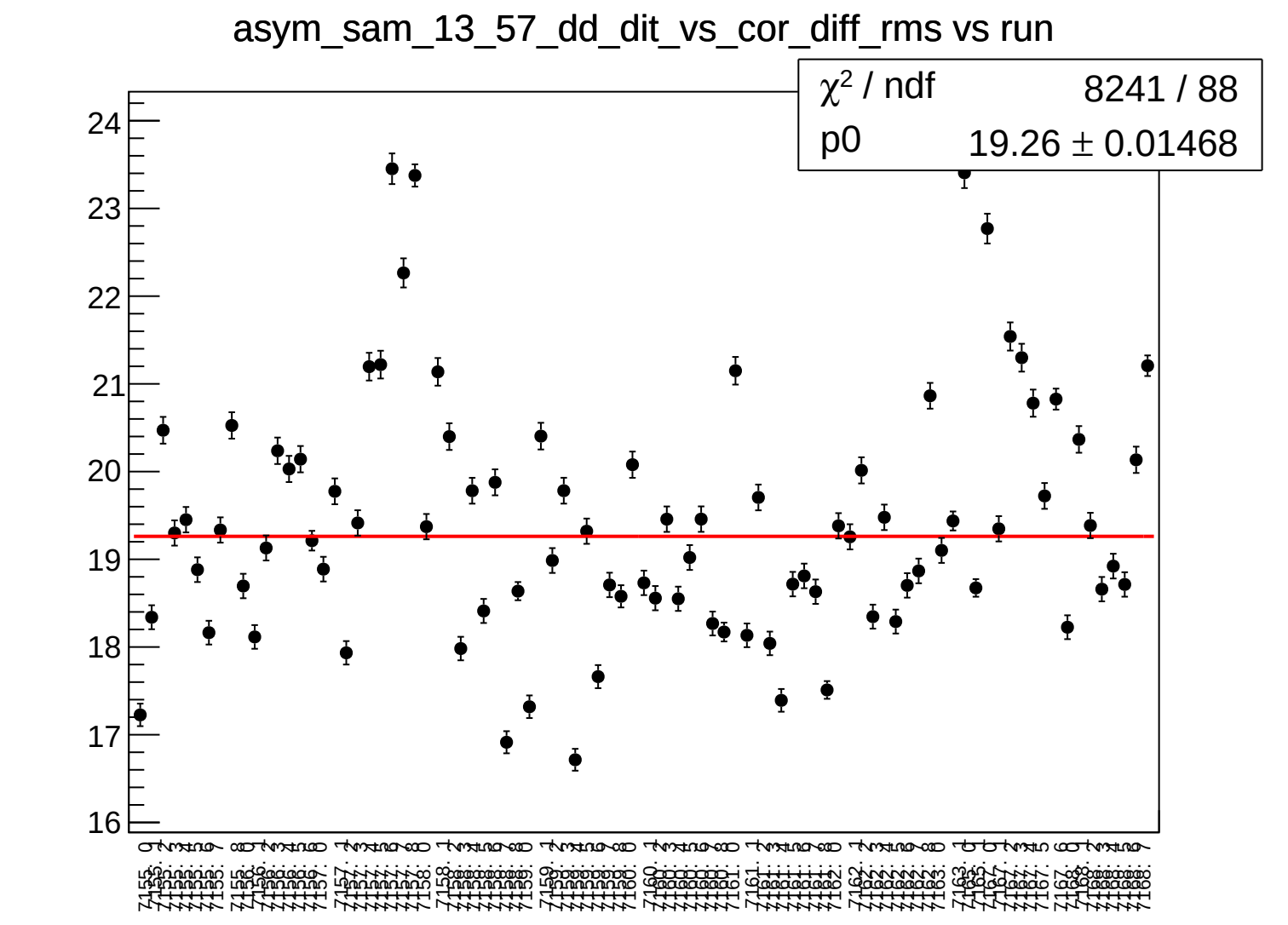

asym_sam_13_57_dd_rms vs run
χ² / ndf 3421 / 88
p0 364.4 ± 0.2773
420
410
400
390
380
370
360
350
340
330

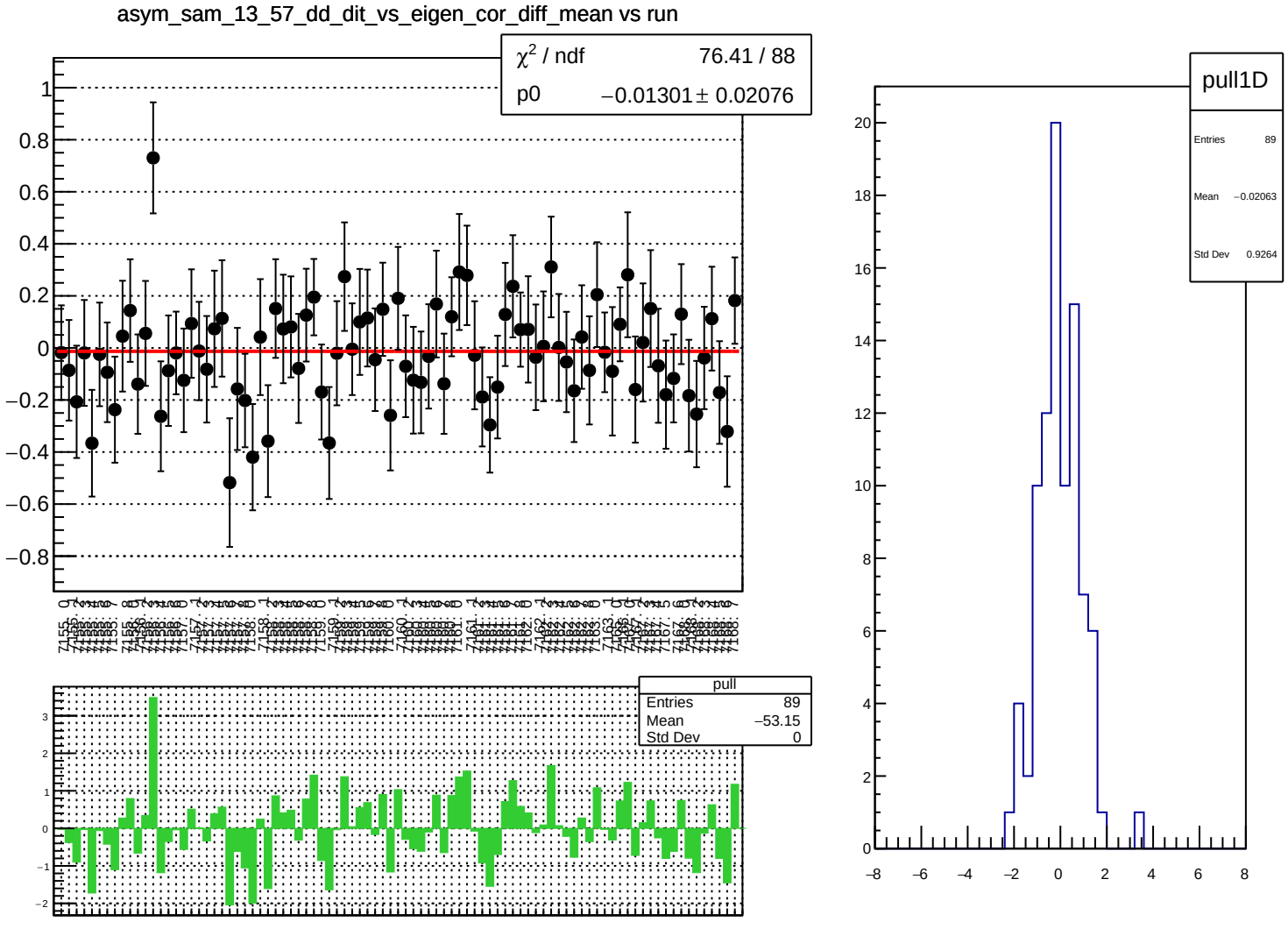

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.87 / 88
p0 −3.996e−15 ± 1.556e−14
pull
Entries 89
Mean −414
Std Dev 0

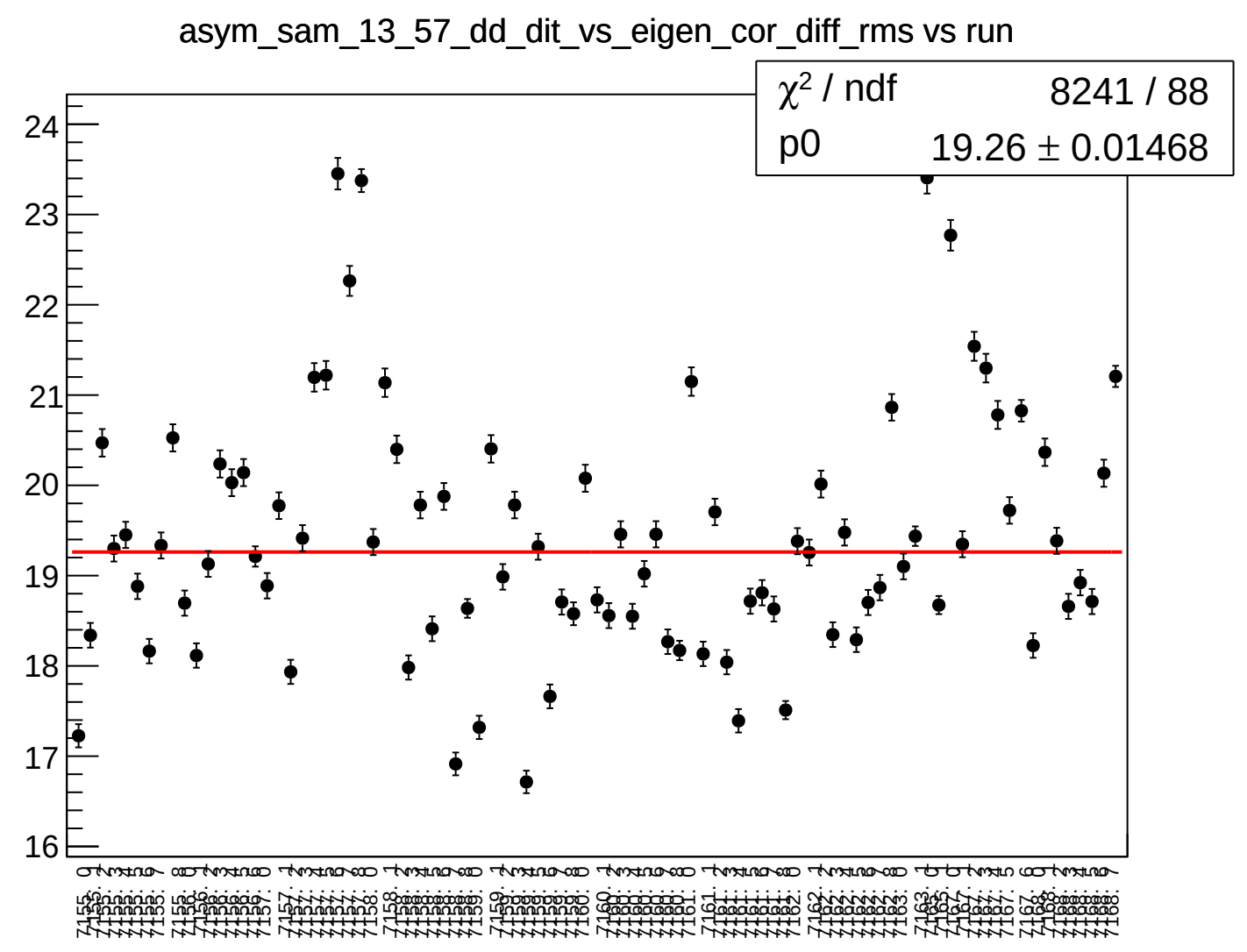

pull1D
Entries 89
Mean 0.004981
Std Dev 1.032

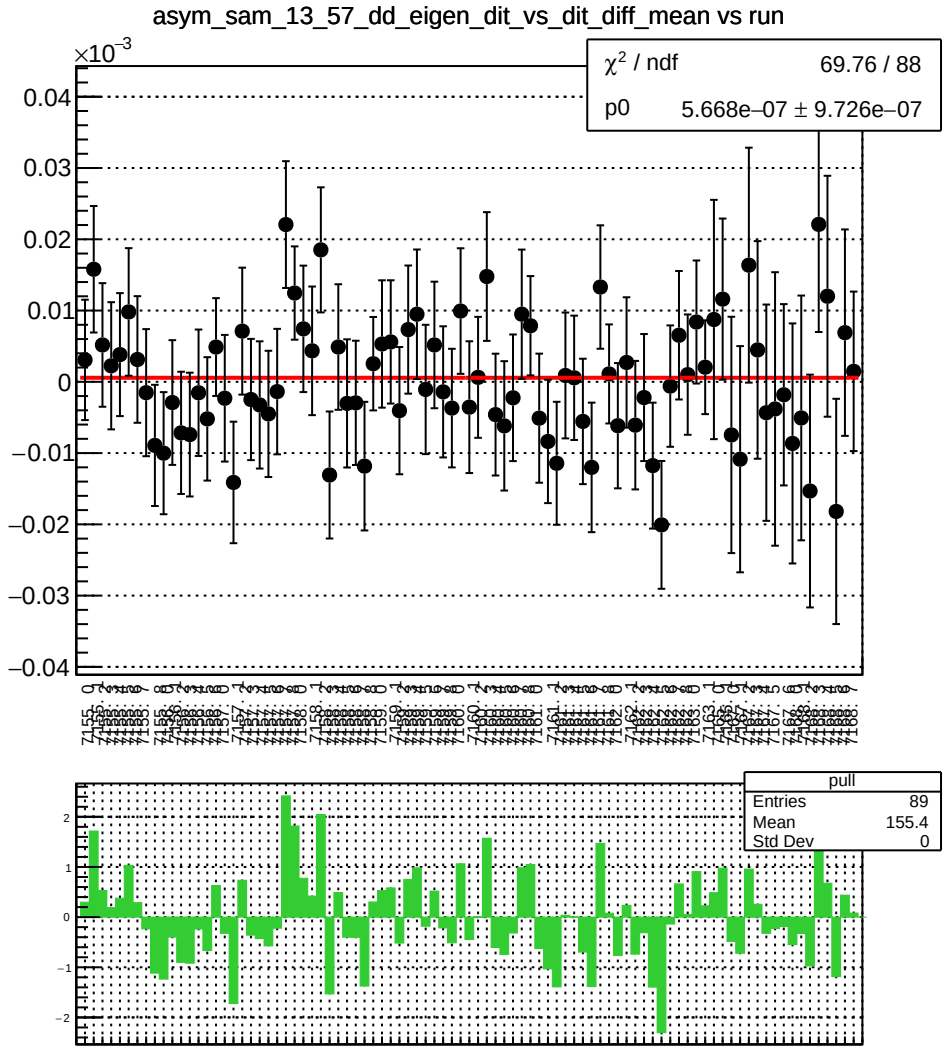

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 88
p0 8.412e−12 ± 1.1e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

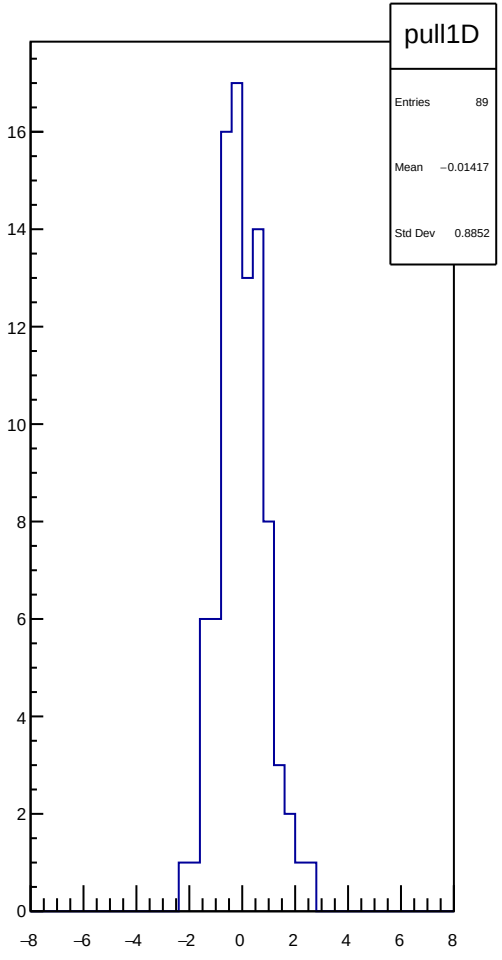

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 88
p0 −0.01301 ± 0.02076
pull
Entries 89
Mean −53.15
Std Dev 0
pull1D
Entries 89
Mean −0.02063
Std Dev 0.9264

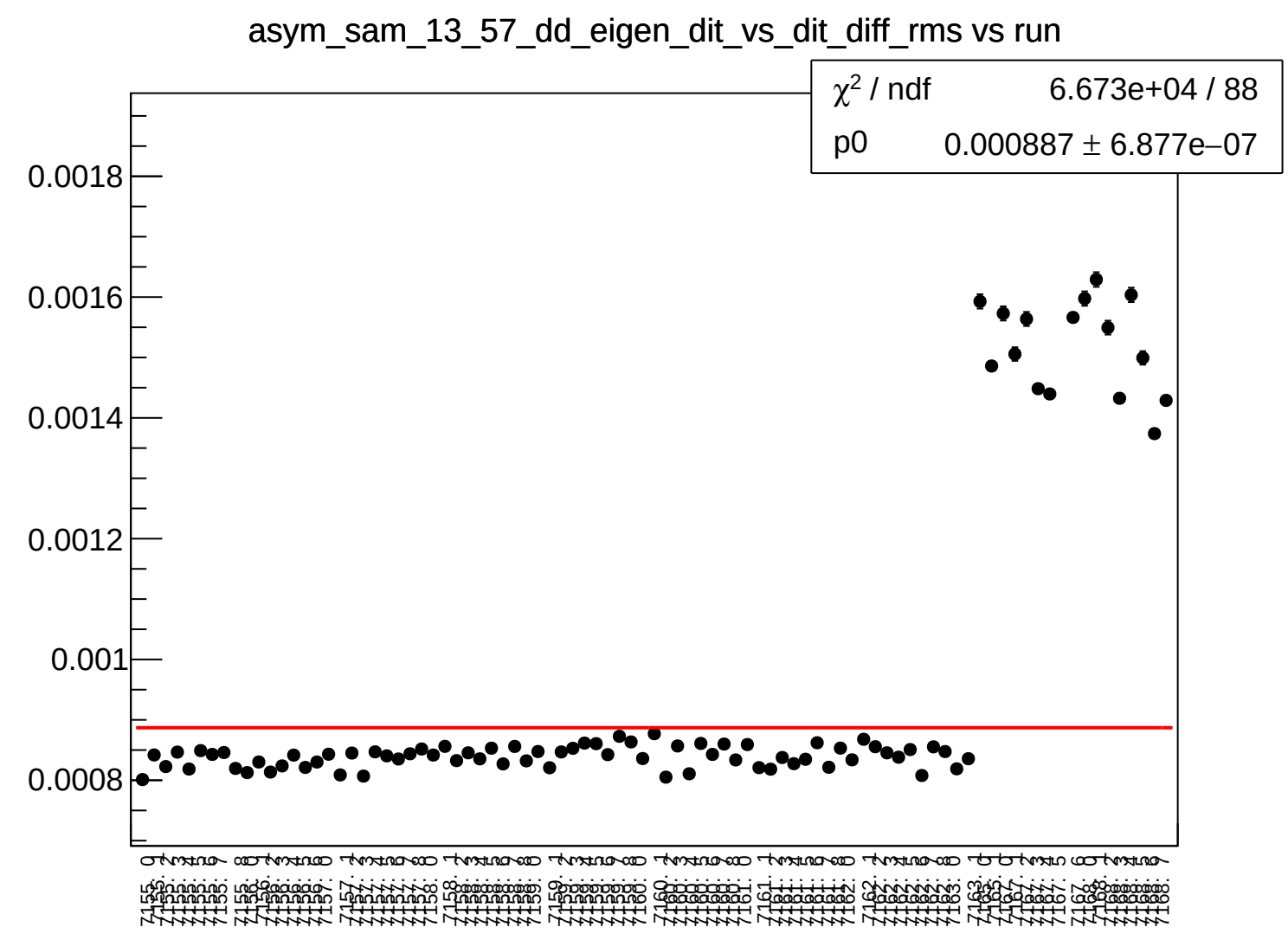

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8241 / 88
p0 19.26 ± 0.01468
24
23
22
21
20
19
18
17
16

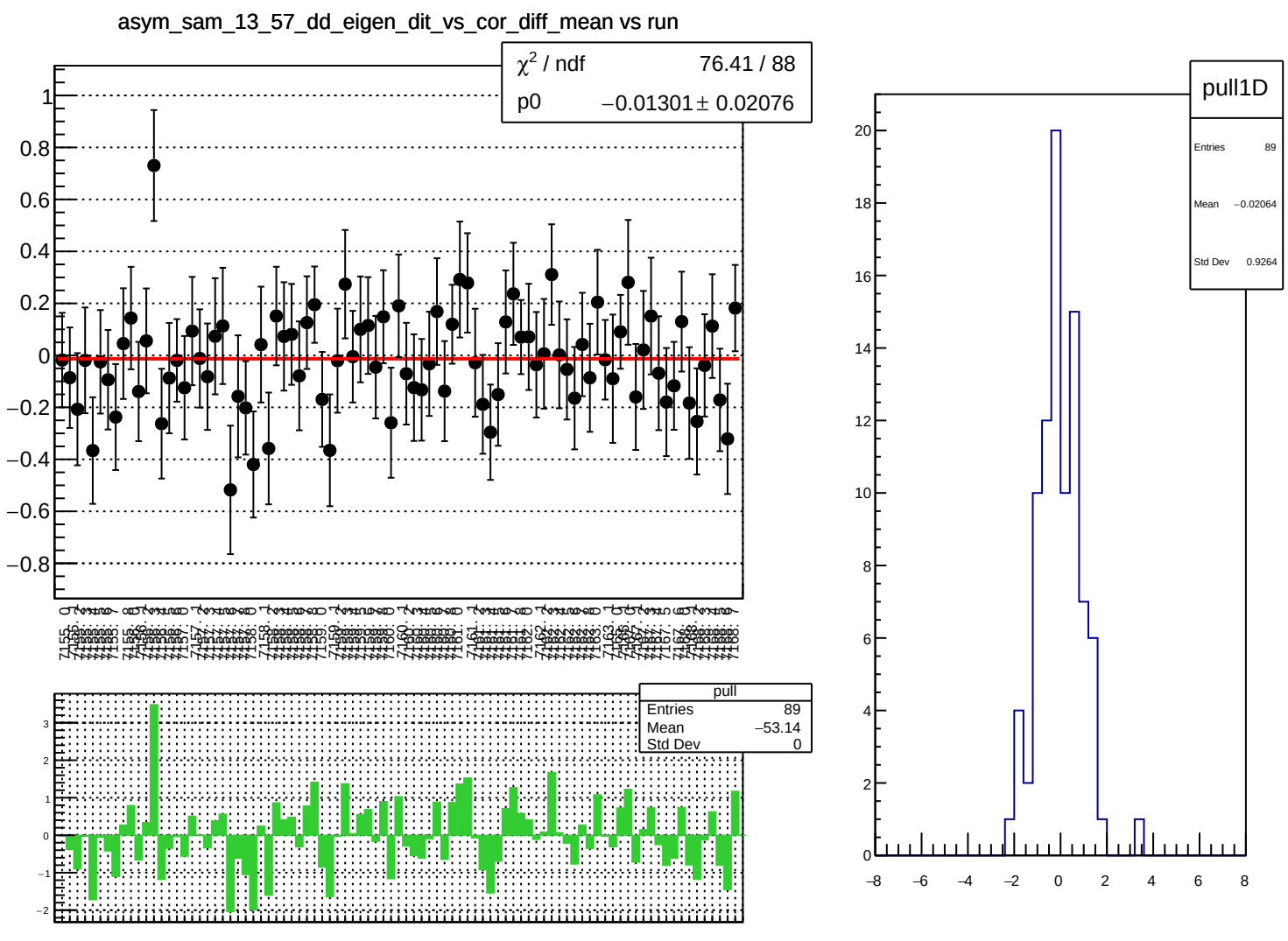

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 88
p0 −0.01301 ± 0.02076
pull
Entries 89
Mean −53.15
Std Dev 0
pull1D
Entries 89
Mean −0.02063
Std Dev 0.9264

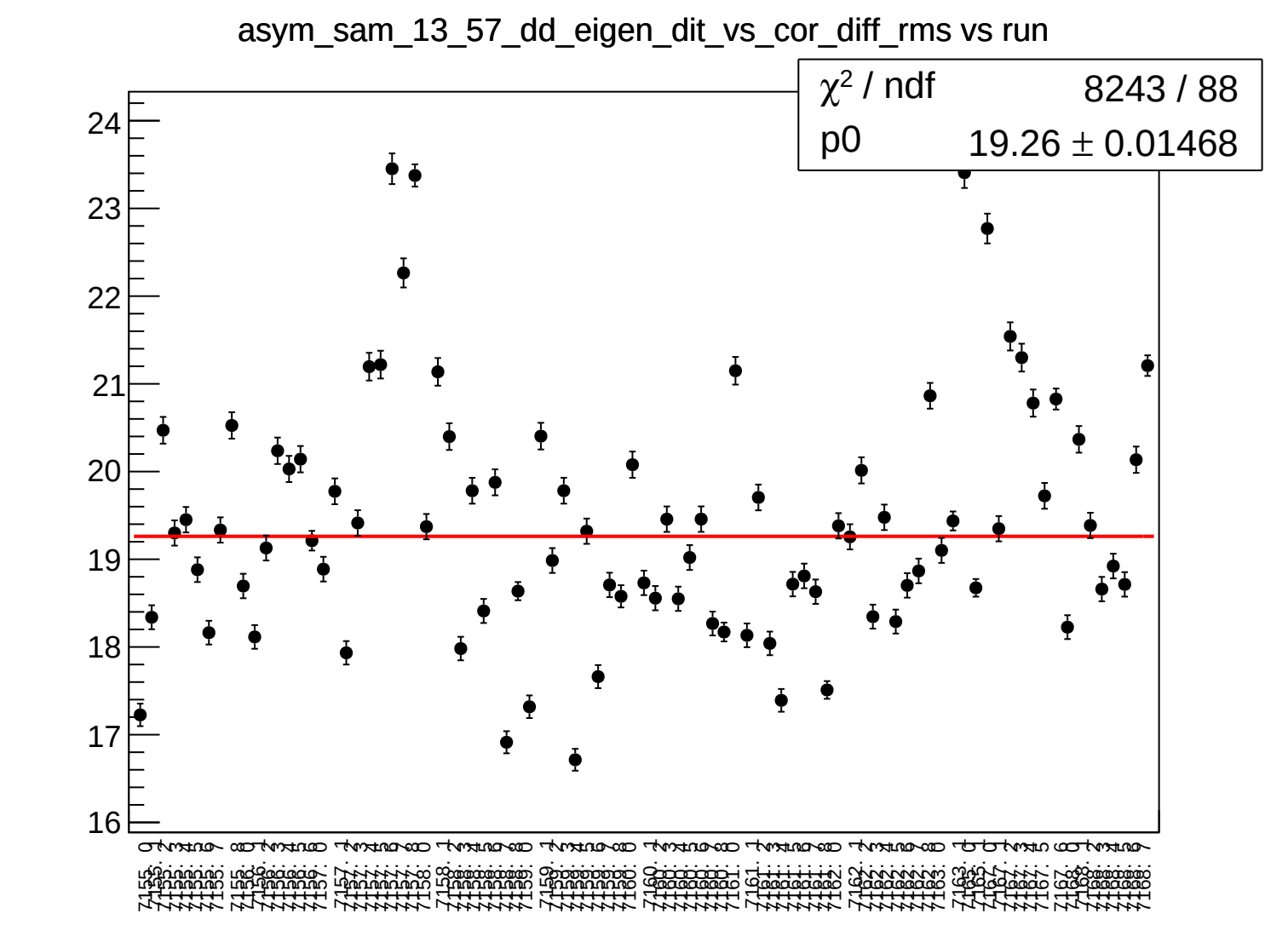

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8241 / 88
p0 19.26 ± 0.01468
24
23
22
21
20
19
18
17
16

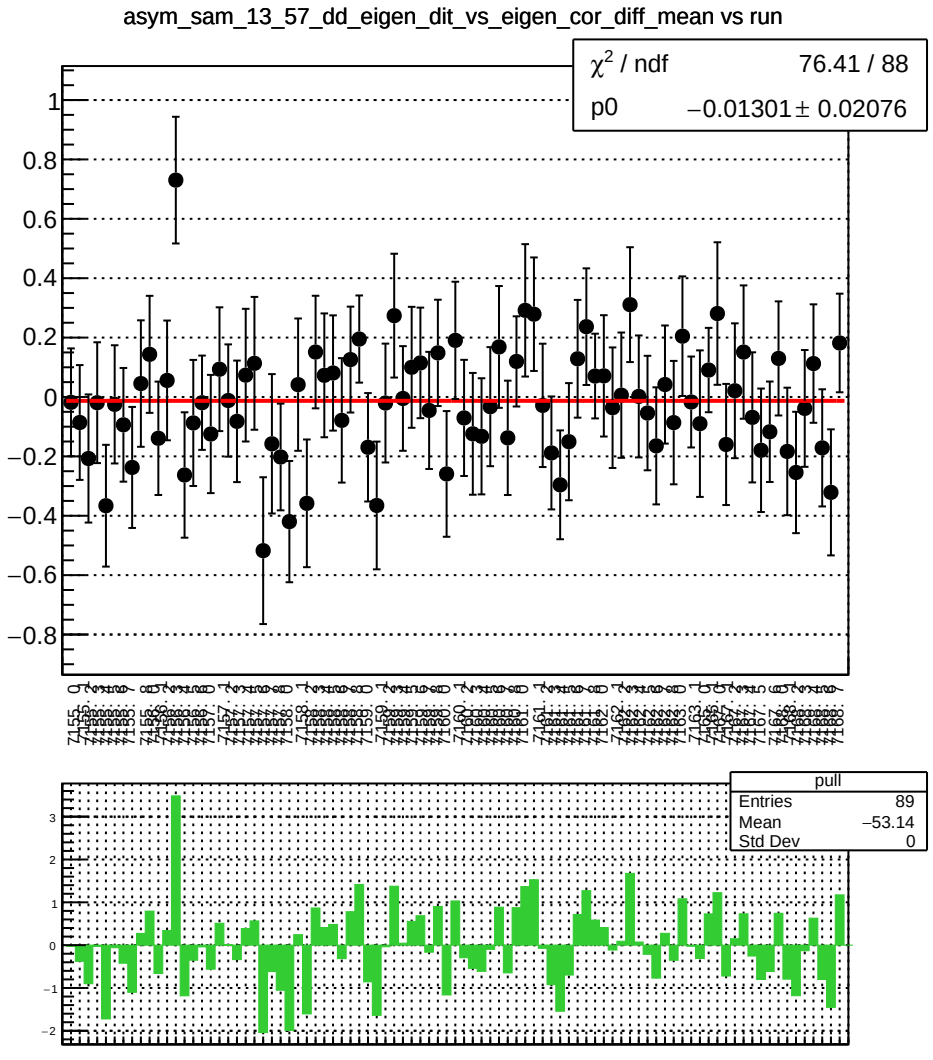

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.76 / 88
p0 5.668e−07 ± 9.726e−07
pull
Entries 89
Mean 155.4
Std Dev 0

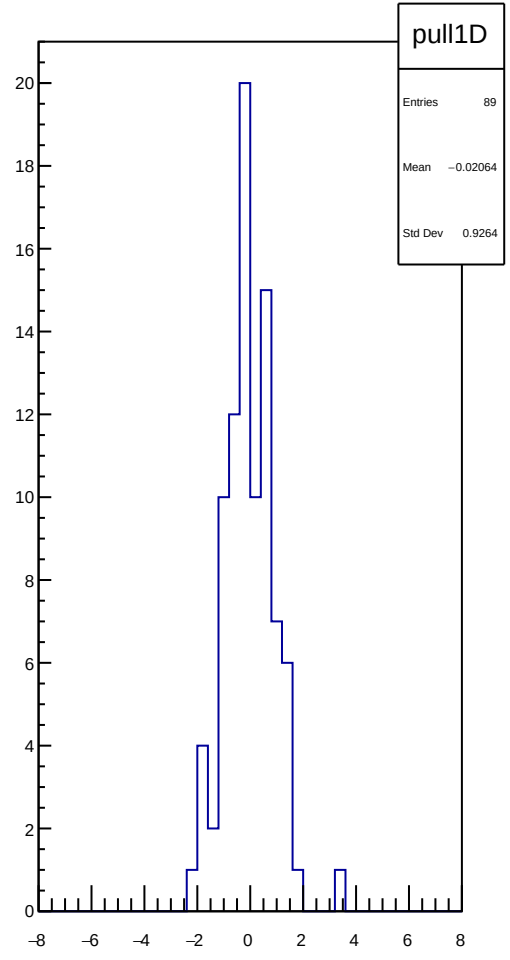

pull1D
Entries 89
Mean −0.01417
Std Dev 0.8852

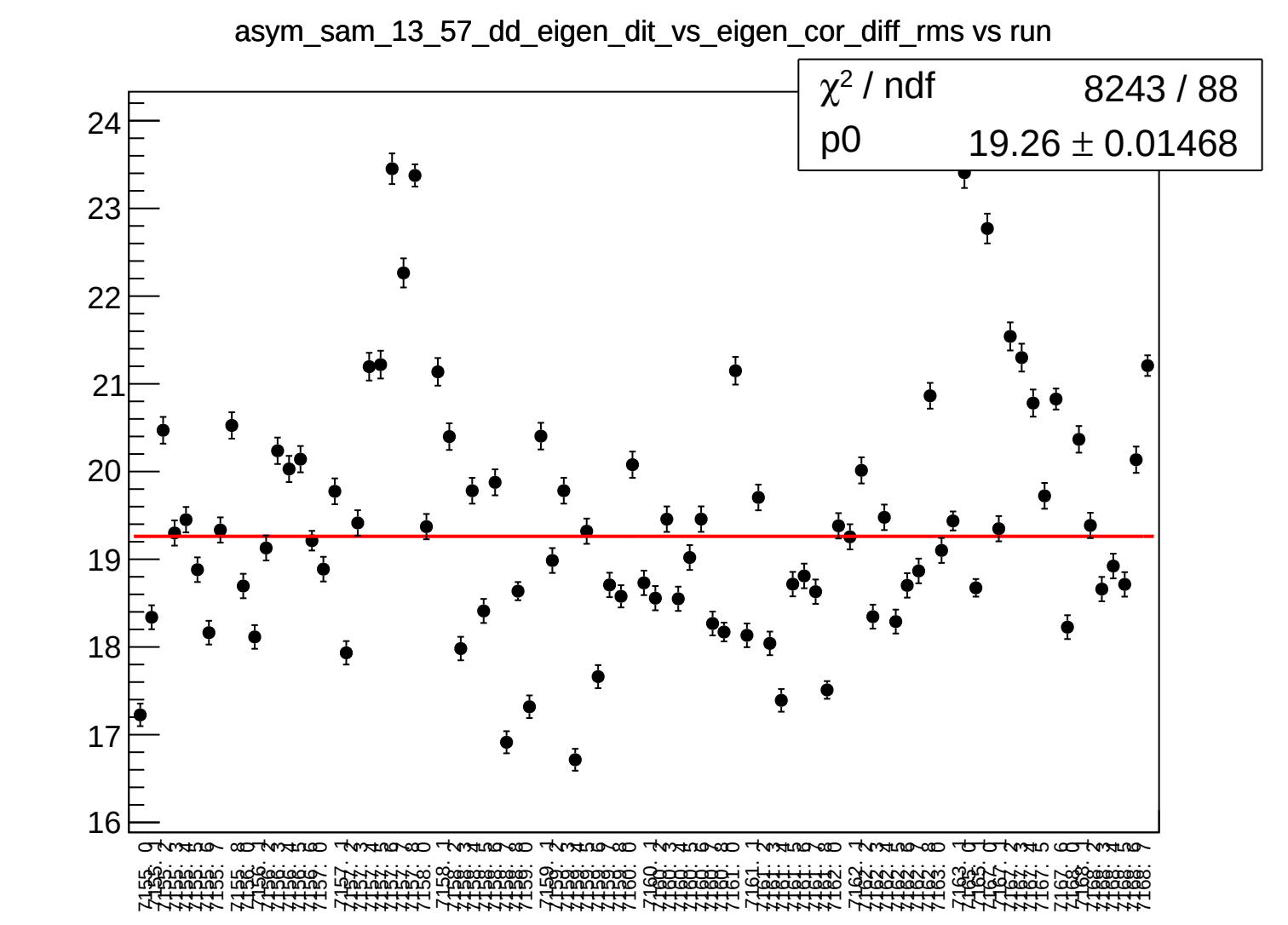

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.673e+04 / 88
p0 0.000887 ± 6.877e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

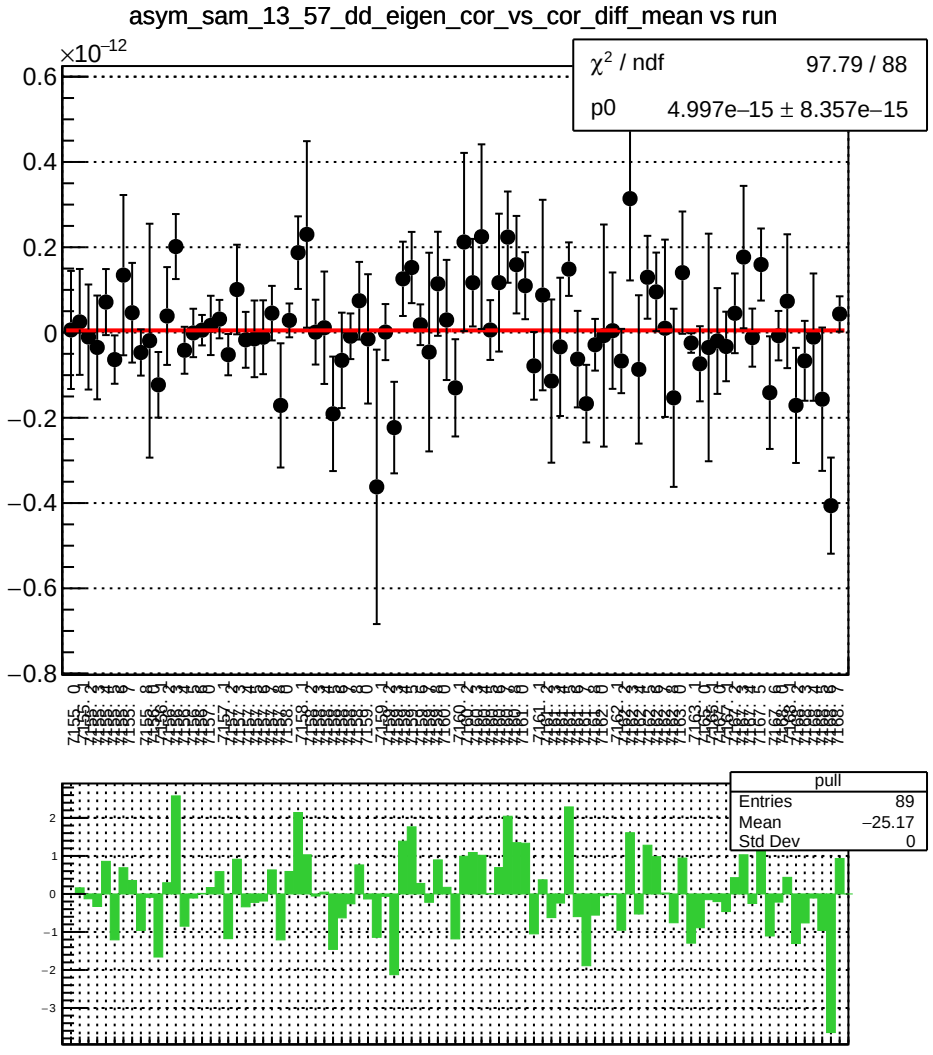

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.41 / 88
p0 −0.01301 ± 0.02076
pull
Entries 89
Mean −53.14
Std Dev 0
pull1D
Entries 89
Mean −0.02064
Std Dev 0.9264

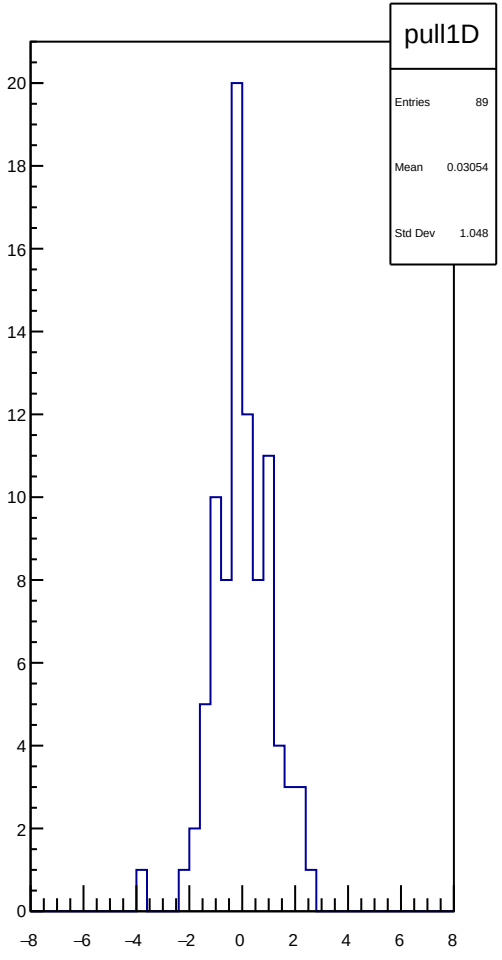

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8243 / 88
p0 19.26 ± 0.01468
24
23
22
21
20
19
18
17
16

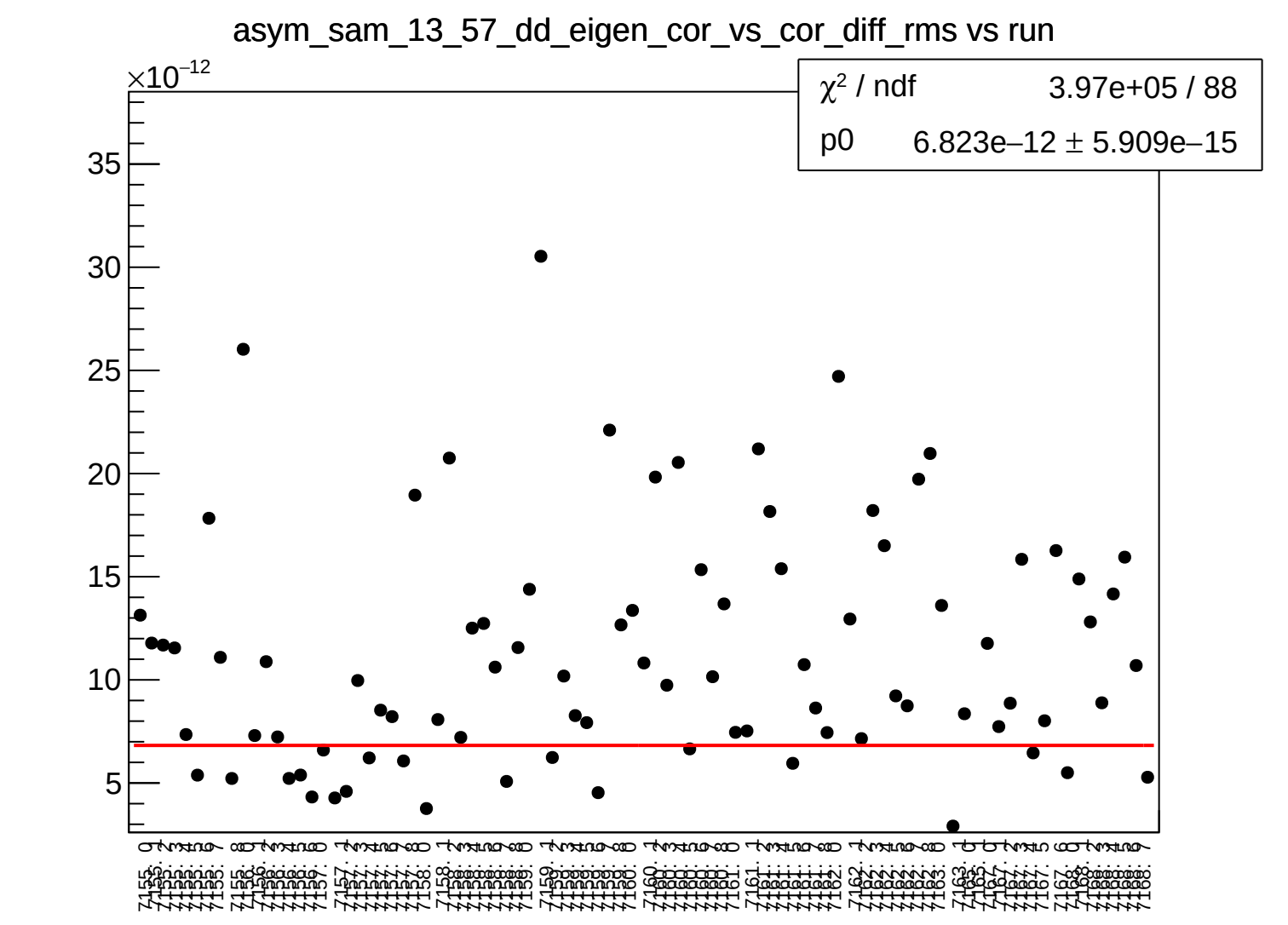

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.41 / 88
p0 −0.01301 ± 0.02076
pull
Entries 89
Mean −53.14
Std Dev 0

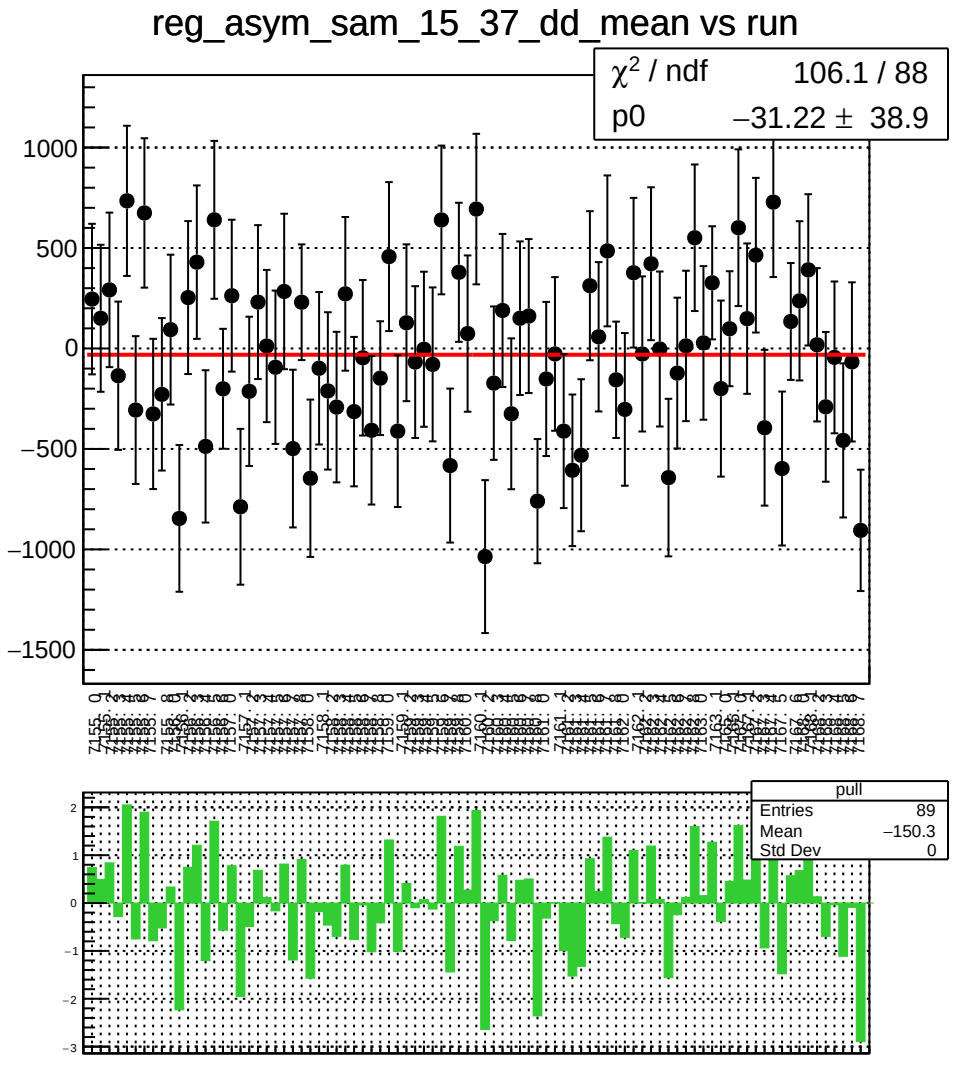

pull1D
Entries 89
Mean −0.02064
Std Dev 0.9264

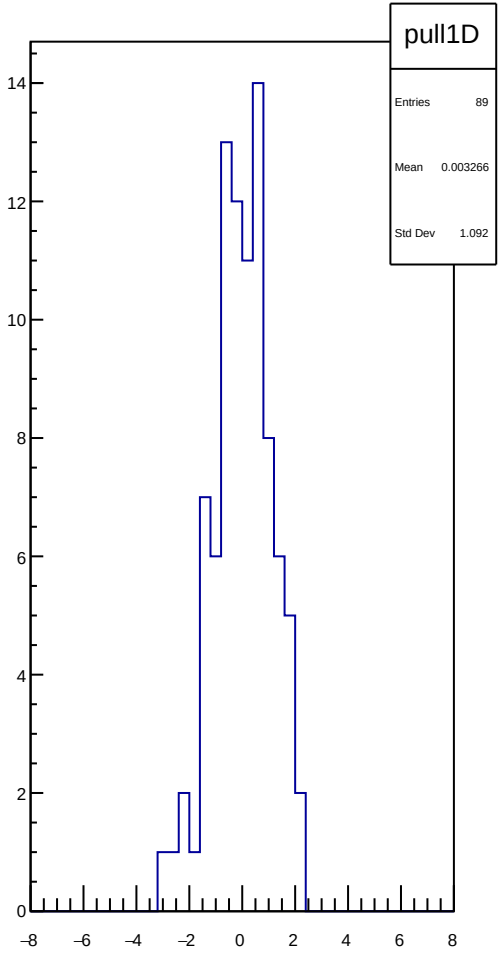

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8243 / 88
p0 19.26 ± 0.01468
24
23
22
21
20
19
18
17
16

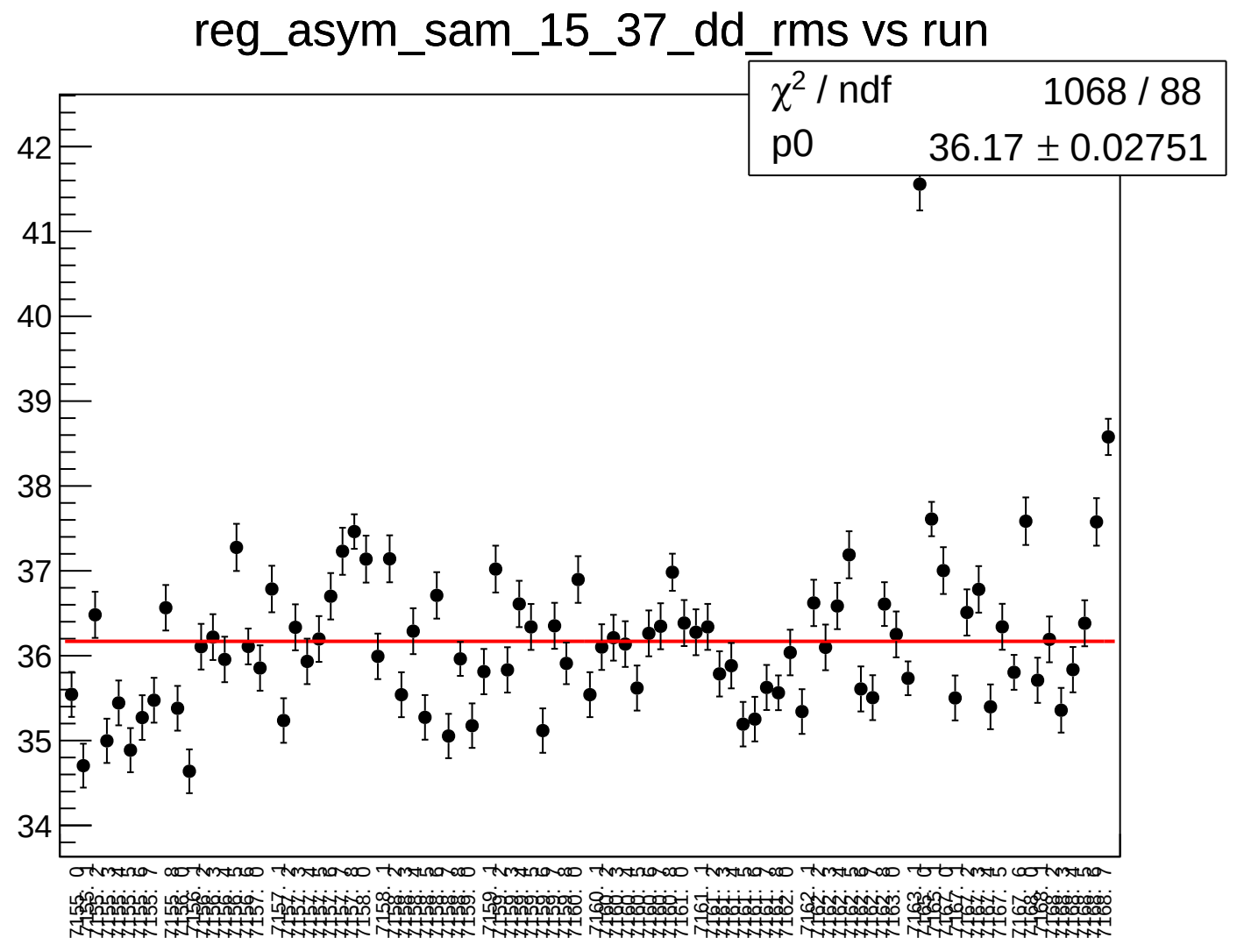

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.79 / 88
p0 4.997e−15 ± 8.357e−15
pull
Entries 89
Mean −25.17
Std Dev 0

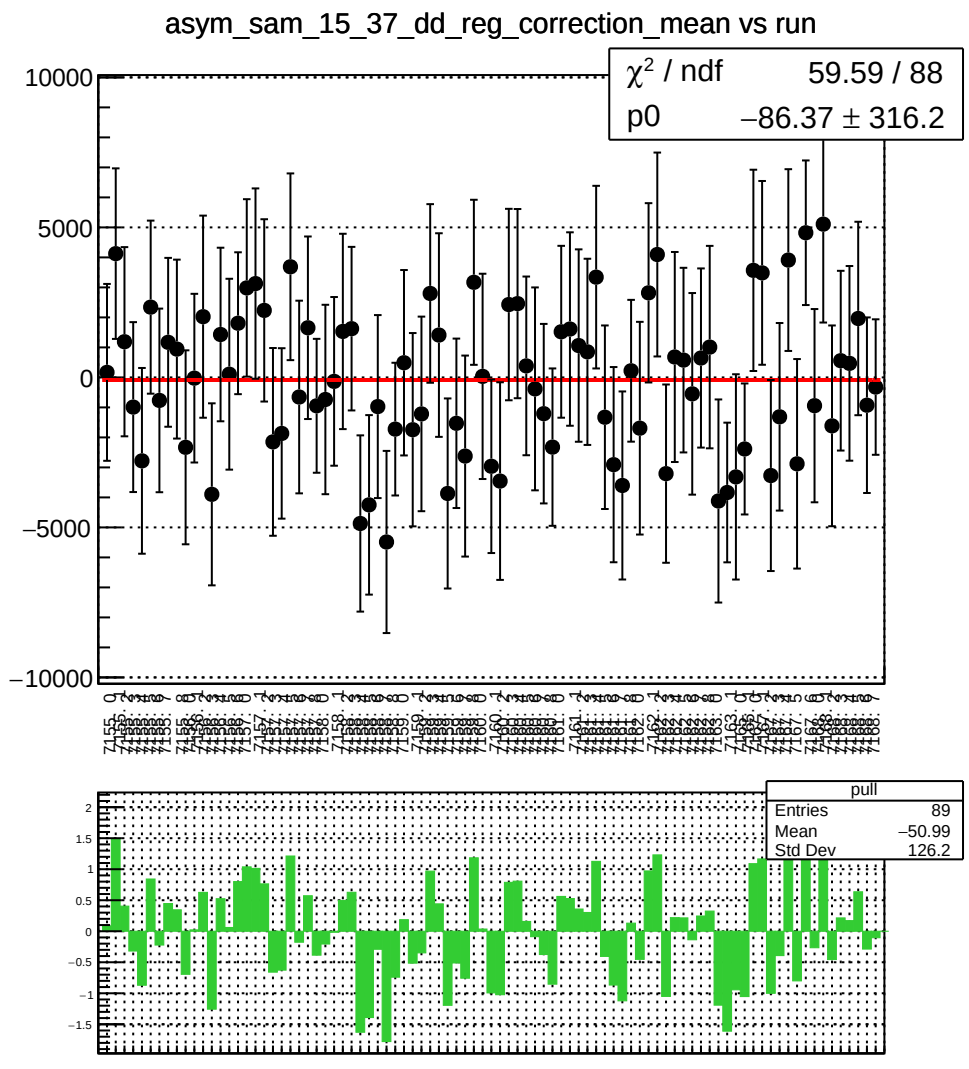

pull1D
Entries 89
Mean 0.03054
Std Dev 1.048

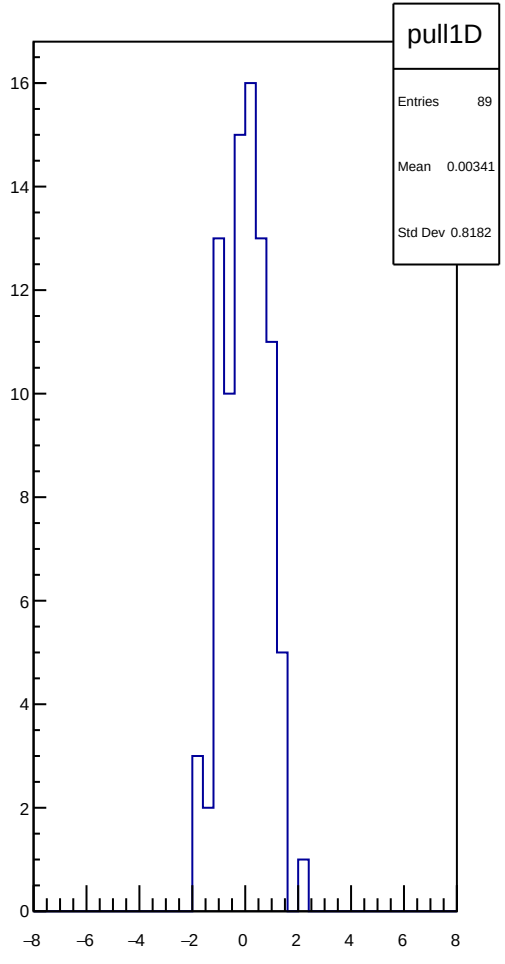

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.97e+05 / 88
p0 6.823e−12 ± 5.909e−15
35
30
25
20
15
10
5

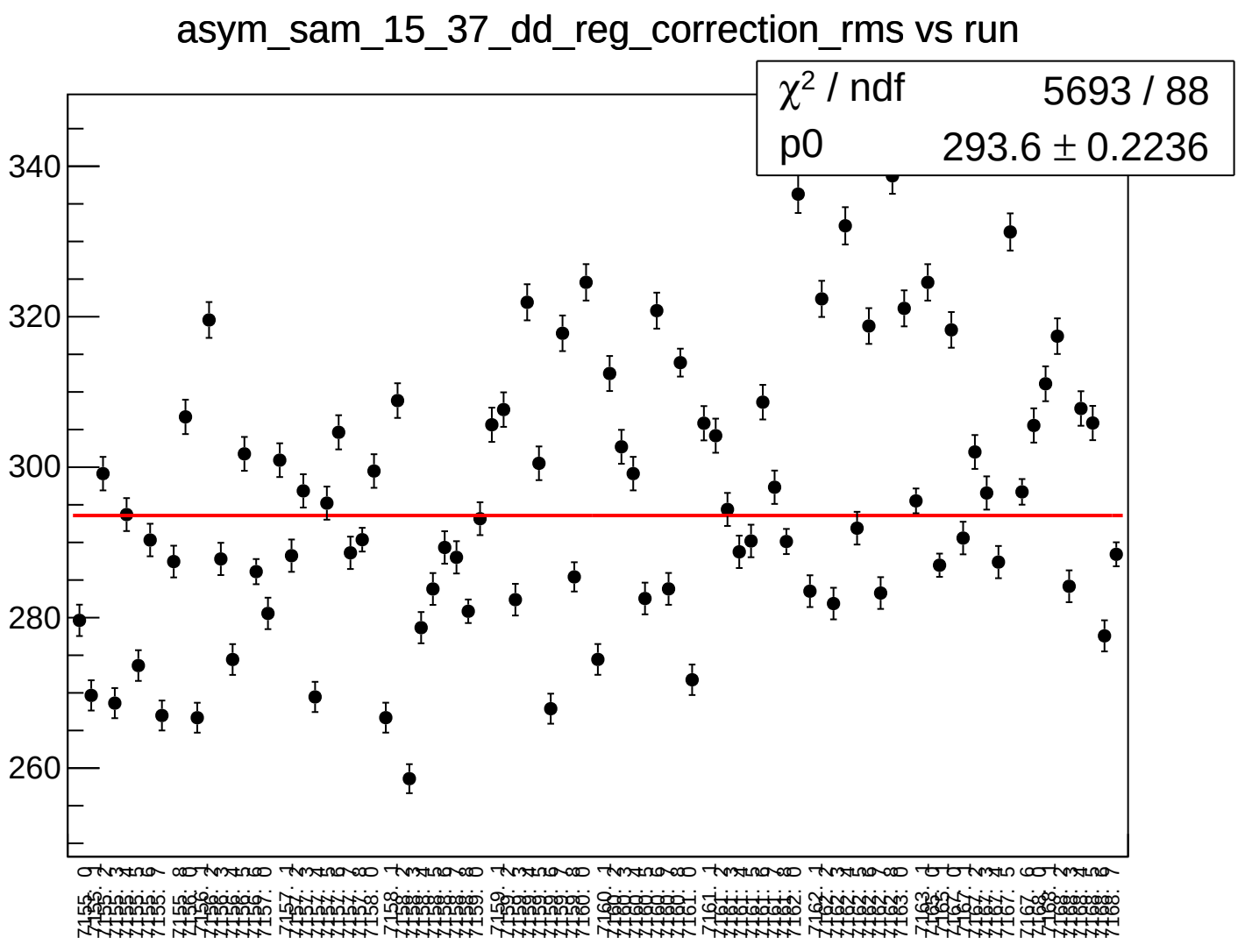

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 106.1 / 88
p0 −31.22 ± 38.9
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −150.3
Std Dev 0
2
1
0
−1
−2
−3

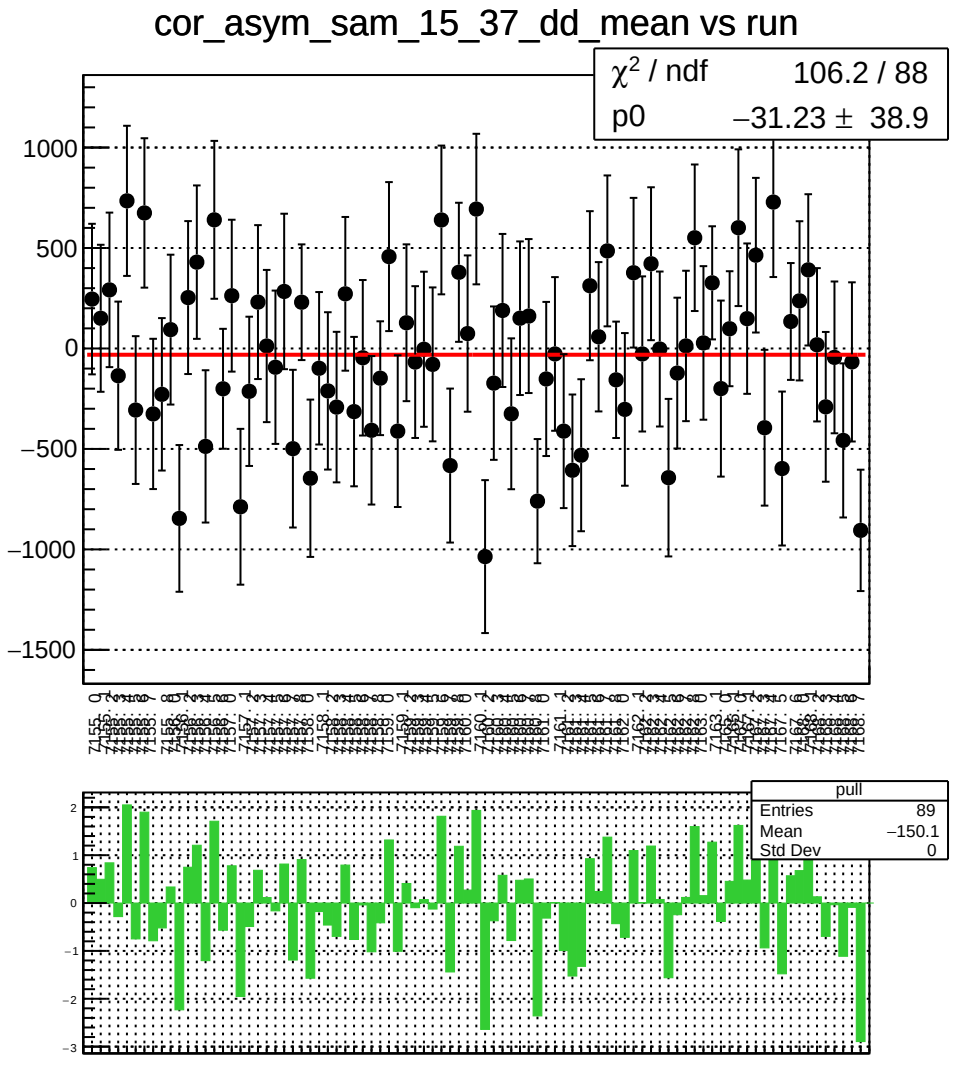

pull1D
Entries 89
Mean 0.003266
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

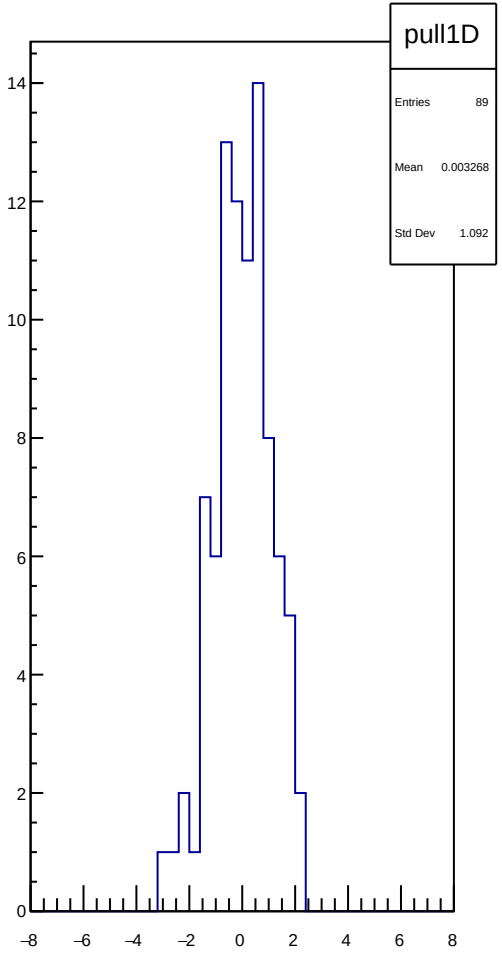

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 1068 / 88
p0 36.17 ± 0.02751
42
41
40
39
38
37
36
35
34

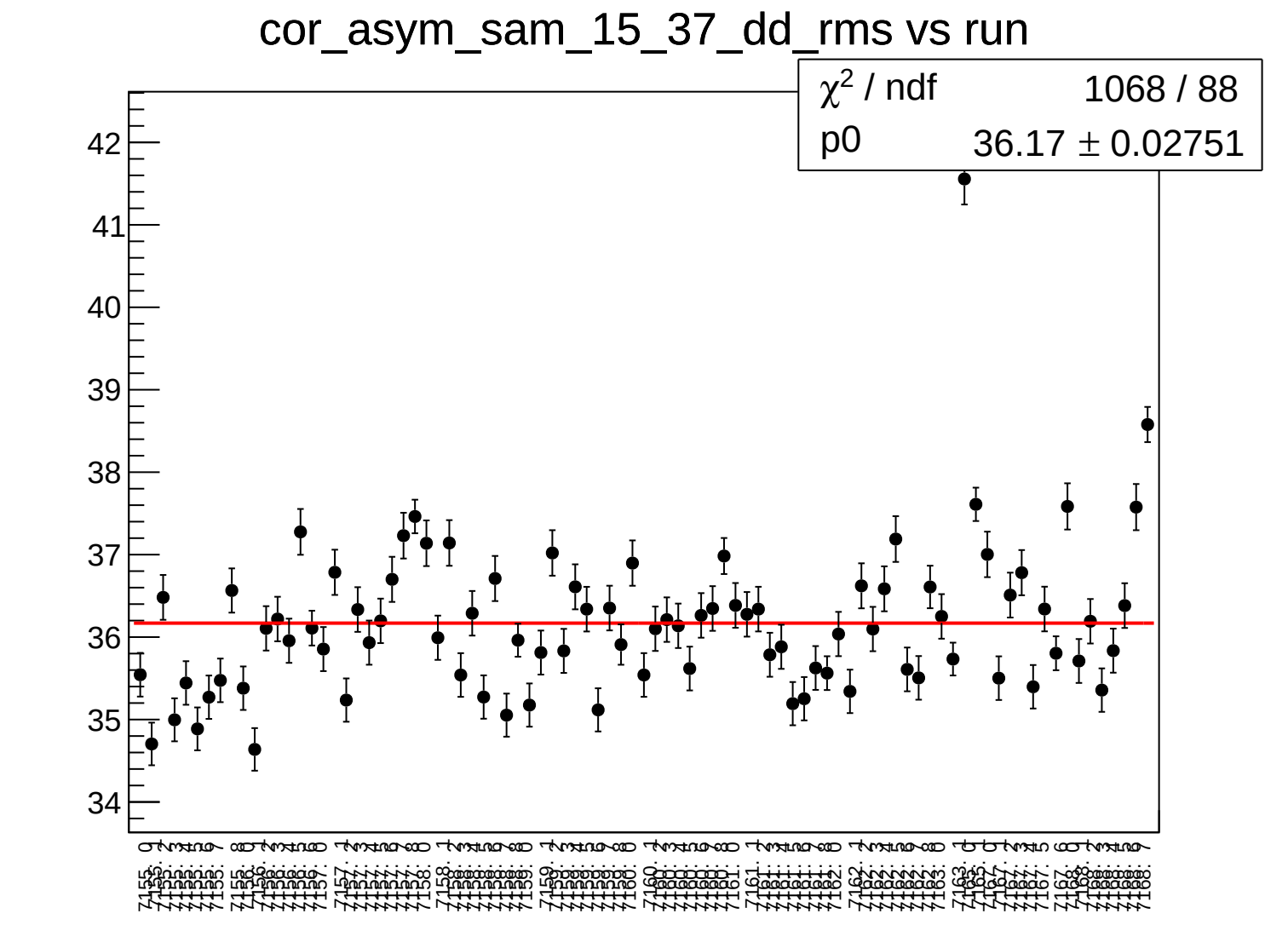

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 59.59 / 88
p0 −86.37 ± 316.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −50.99
Std Dev 126.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

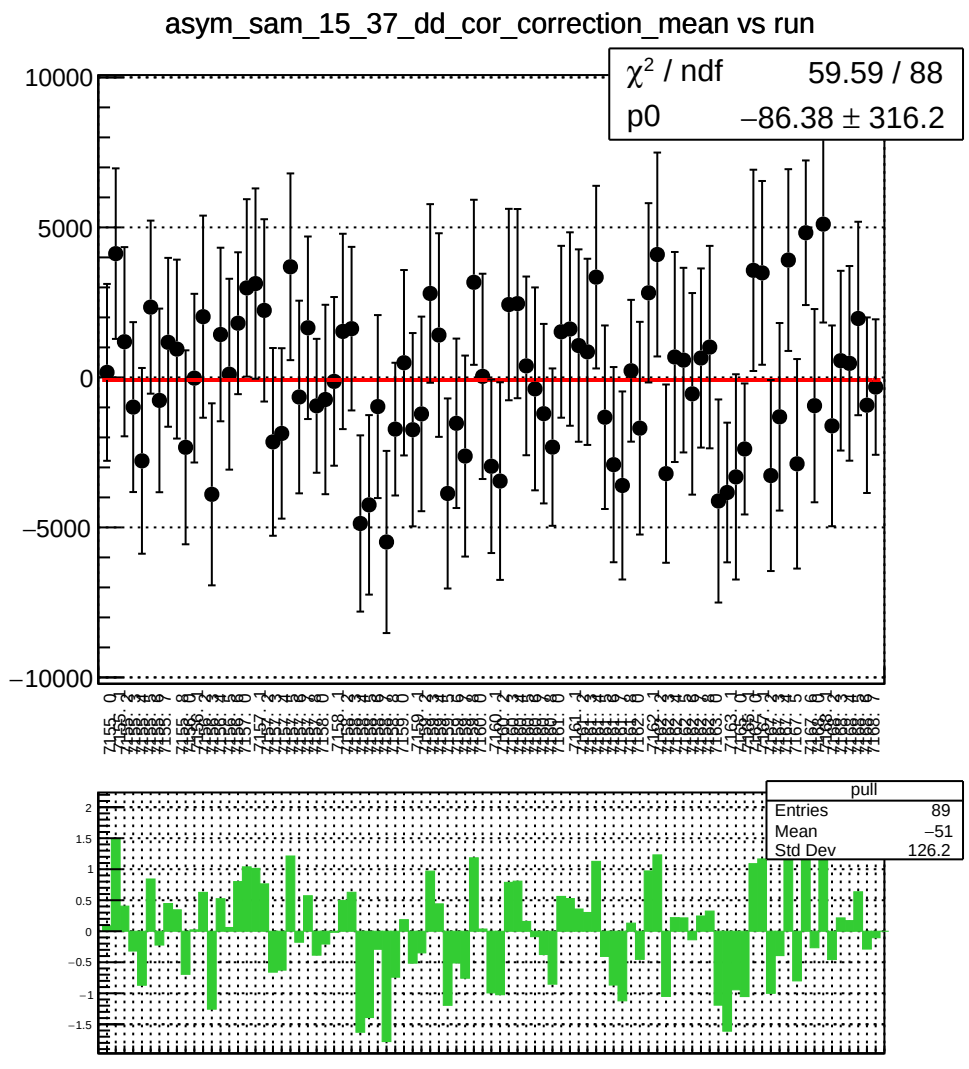

pull1D
Entries 89
Mean 0.00341
Std Dev 0.8182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

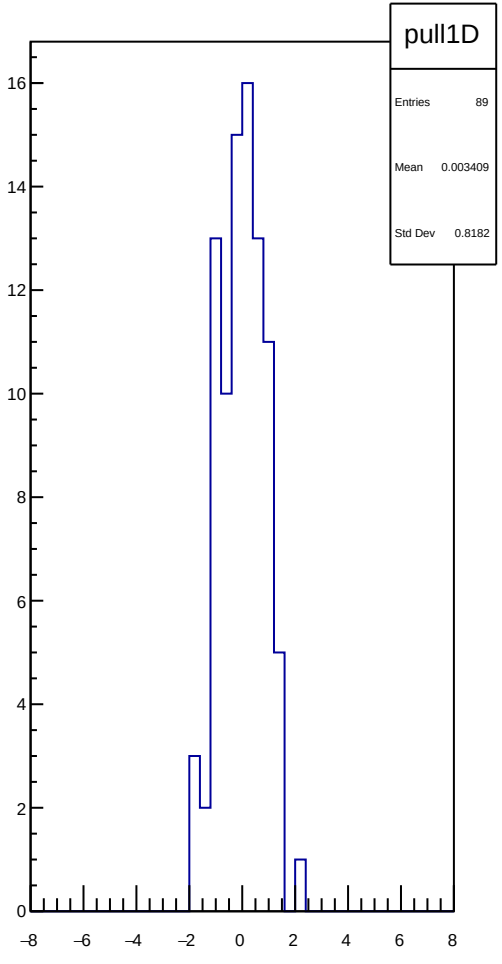

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5693 / 88
p0 293.6 ± 0.2236
340
320
300
280
260

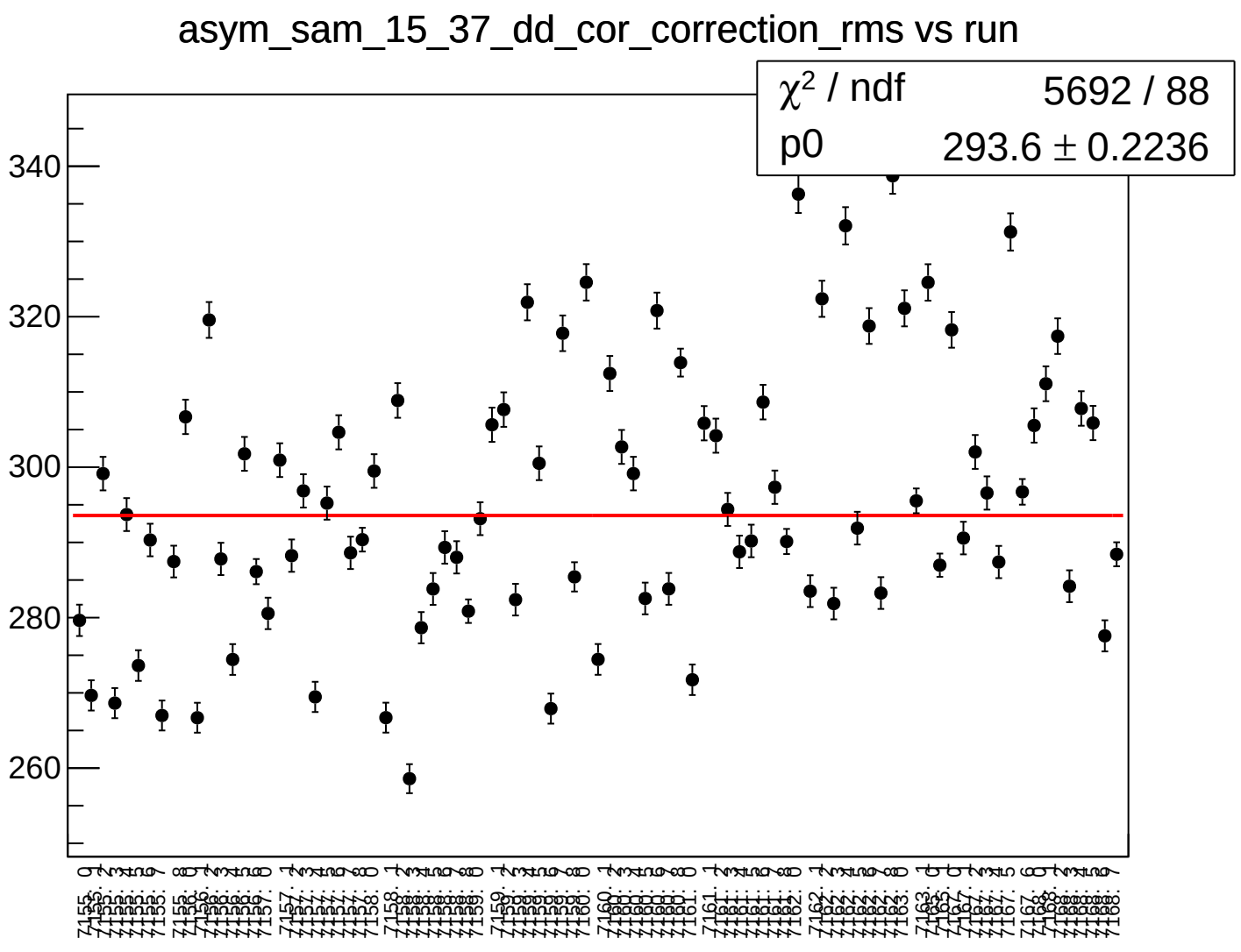

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 106.2 / 88
p0 −31.23 ± 38.9
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −150.1
Std Dev 0
2
1
0
−1
−2
−3

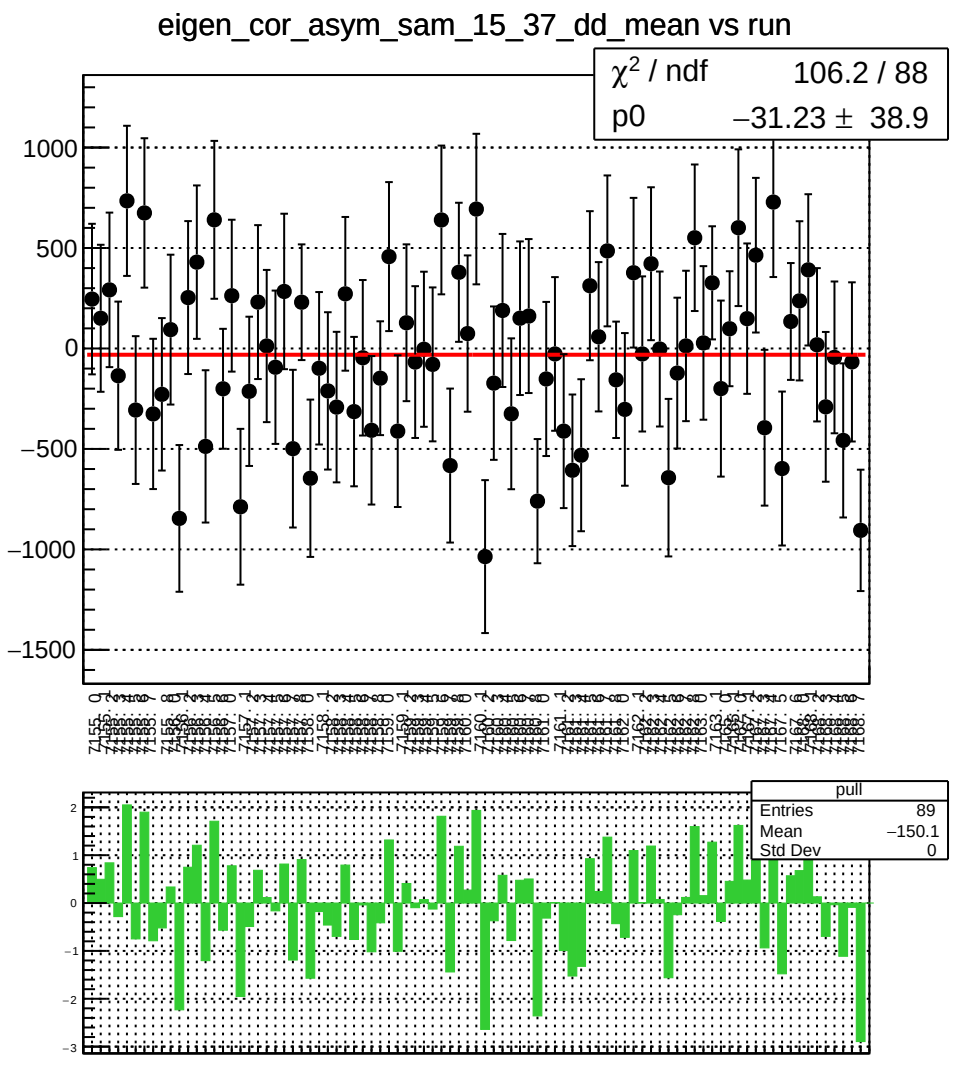

pull1D
Entries 89
Mean 0.003268
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

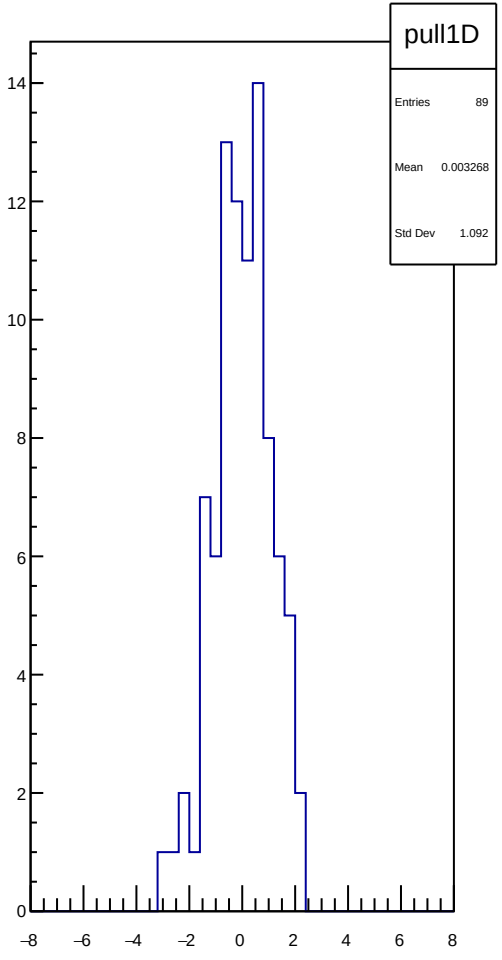

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1068 / 88
p0 36.17 ± 0.02751
42
41
40
39
38
37
36
35
34

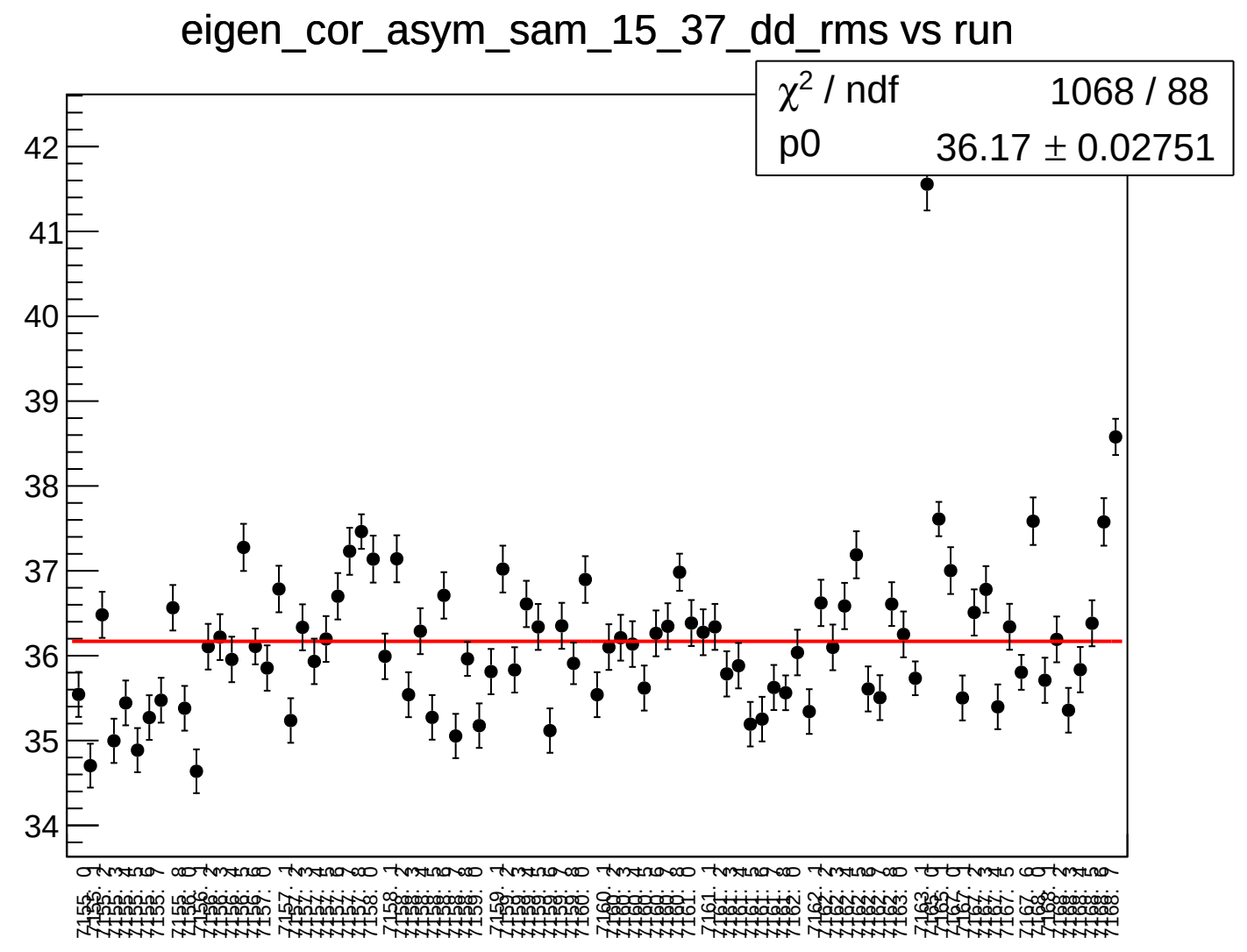

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 59.59 / 88
p0 −86.38 ± 316.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −51
Std Dev 126.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

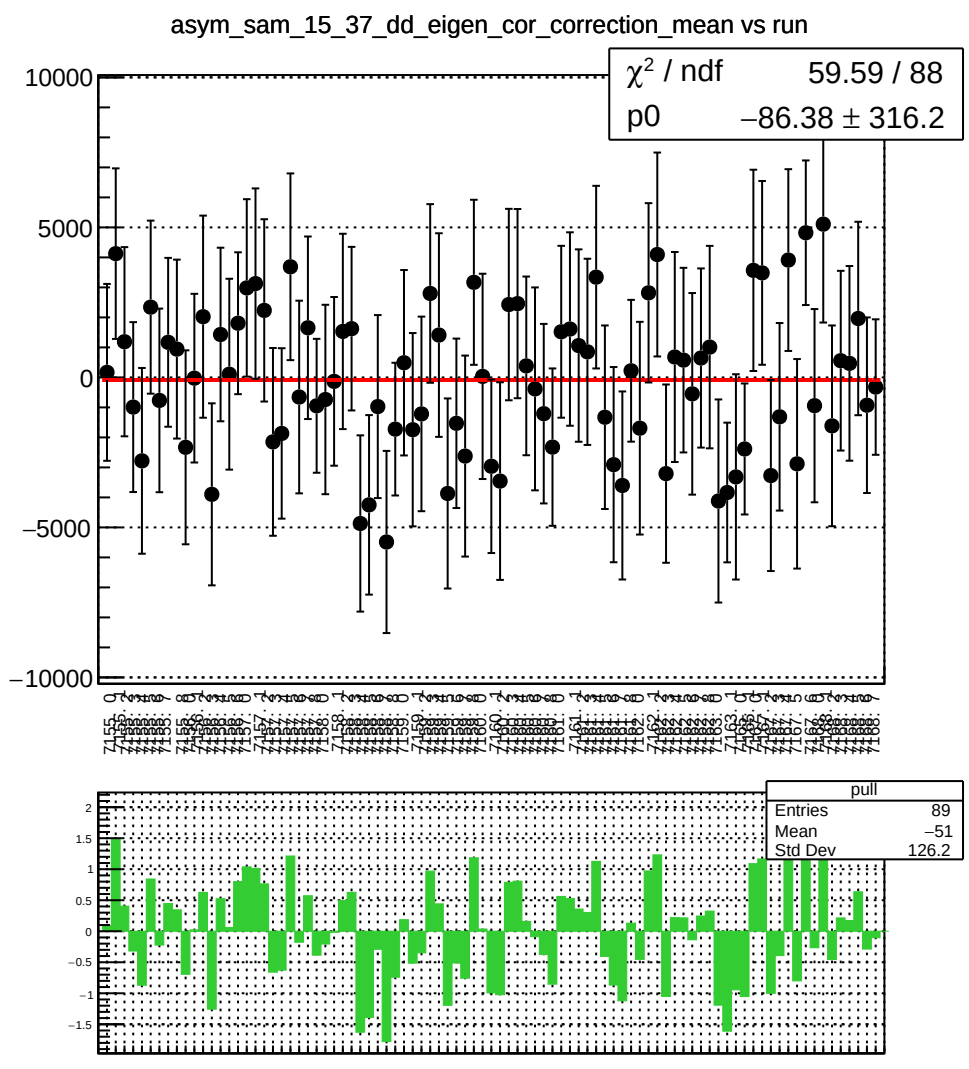

pull1D
Entries 89
Mean 0.003409
Std Dev 0.8182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

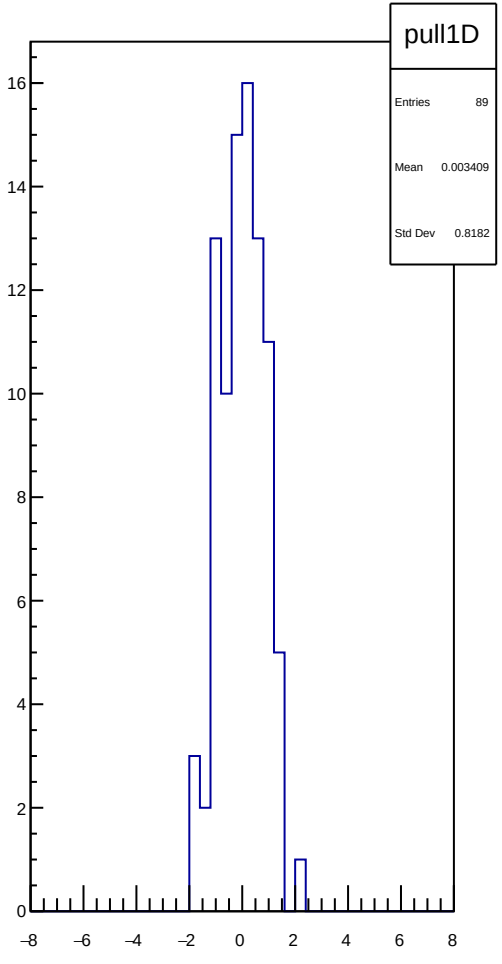

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5692 / 88
p0 293.6 ± 0.2236
340
320
300
280
260

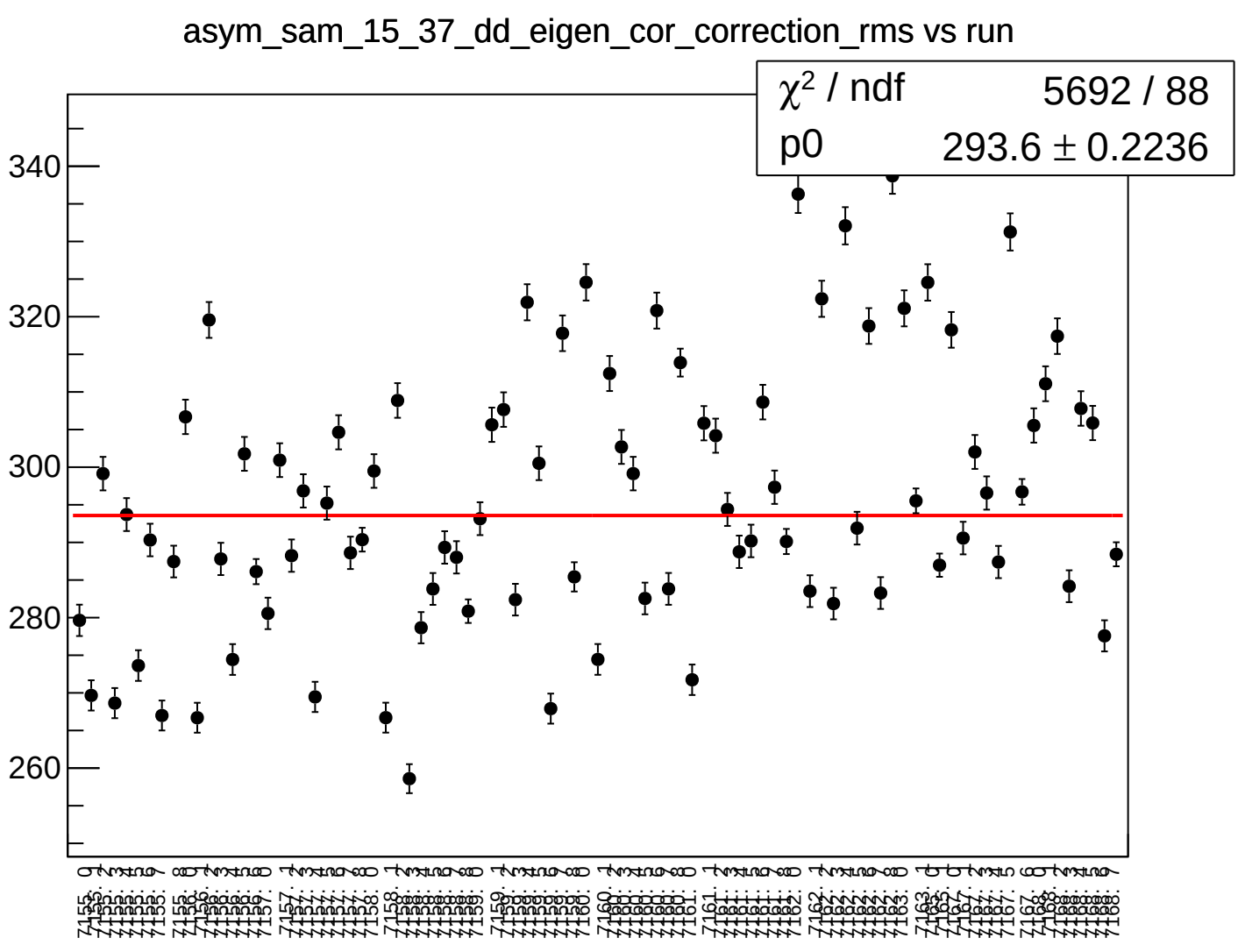

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 106.2 / 88
p0 −31.23 ± 38.9
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −150.1
Std Dev 0
2
1
0
−1
−2
−3

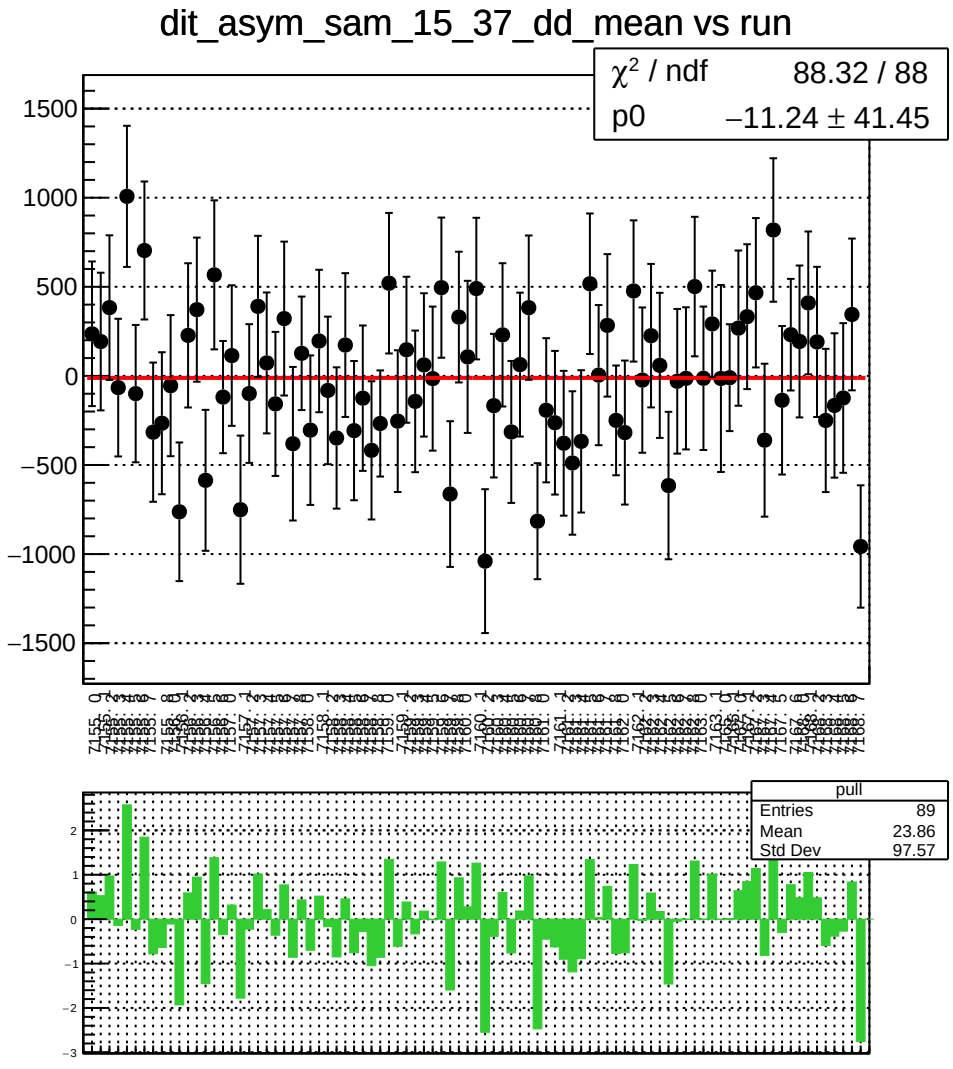

pull1D
Entries 89
Mean 0.003268
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

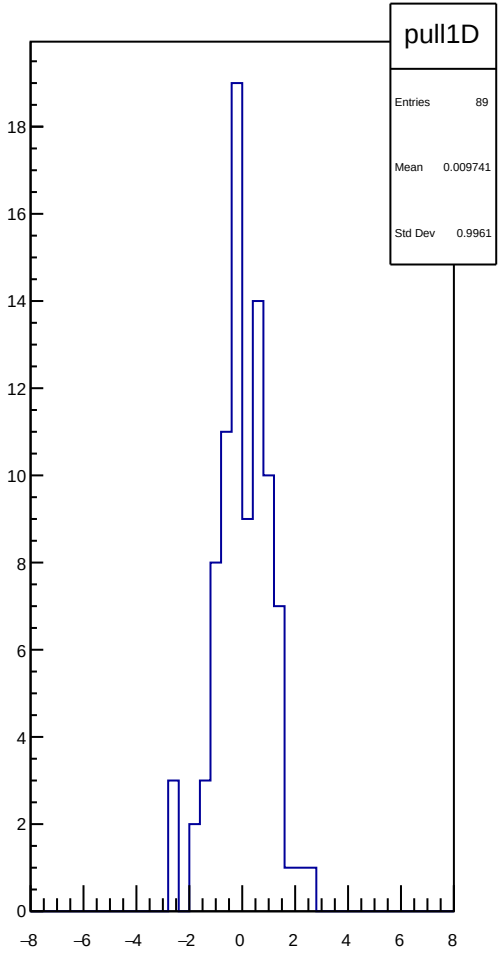

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 1068 / 88
p0 36.17 ± 0.02751
42
41
40
39
38
37
36
35
34

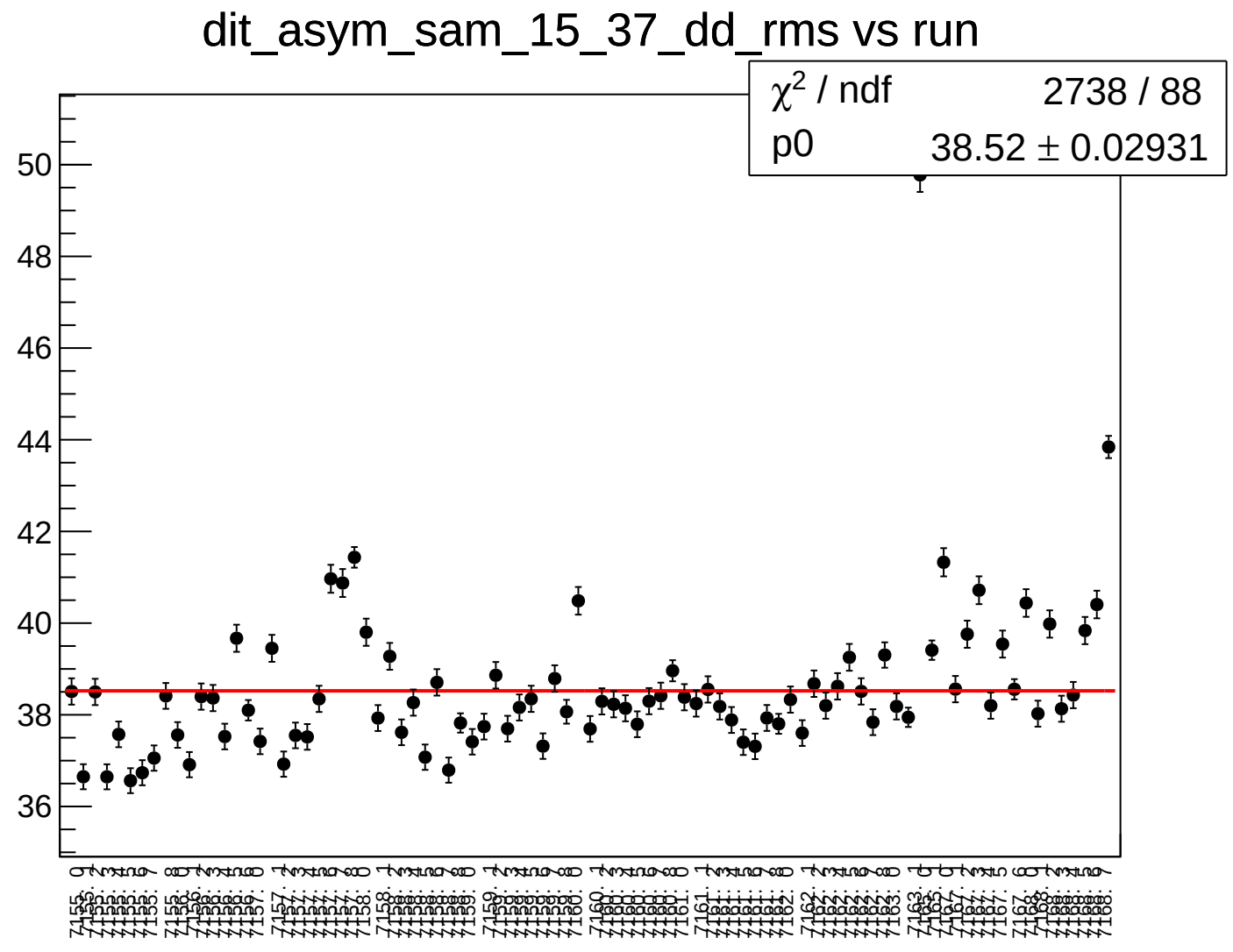

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 59.59 / 88
p0 −86.38 ± 316.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −51
Std Dev 126.2
2
1.5
1
0.5
0
−0.5
−1
−1.5

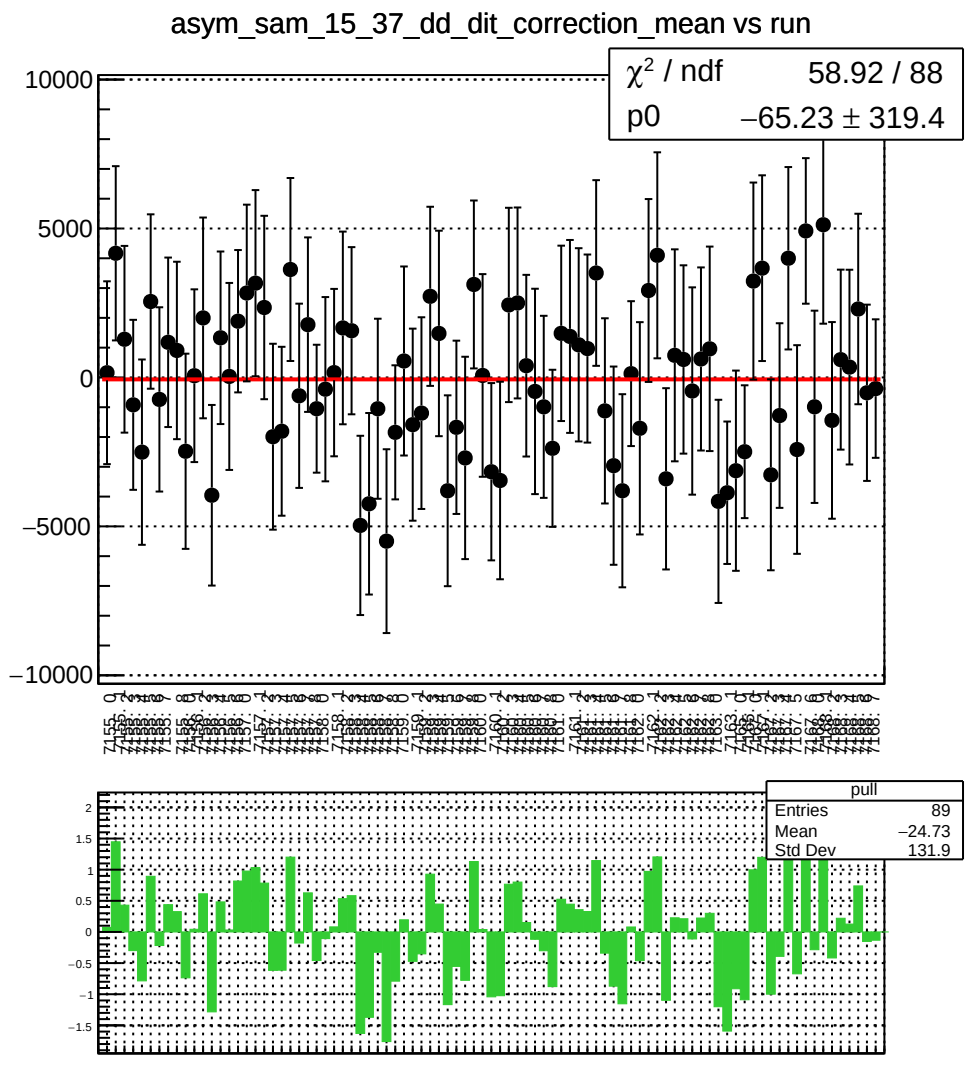

pull1D
Entries 89
Mean 0.003409
Std Dev 0.8182
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

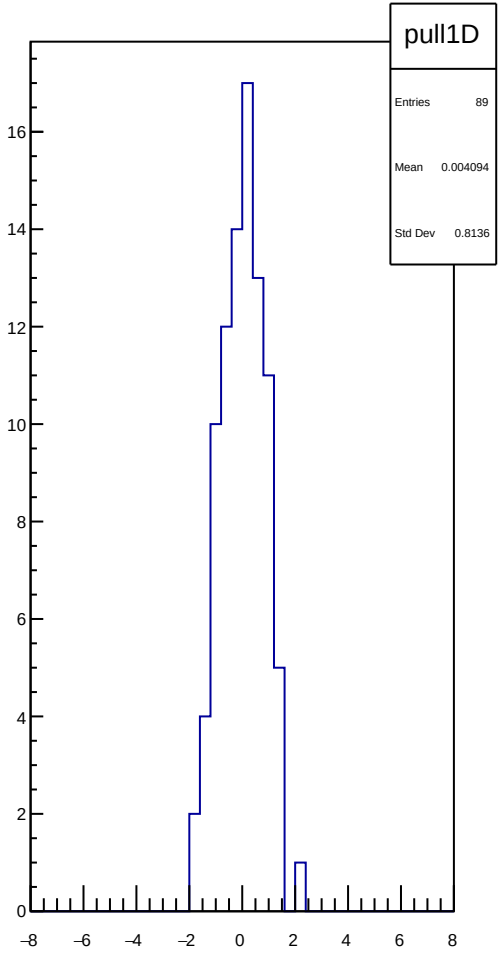

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5692 / 88
p0 293.6 ± 0.2236
340
320
300
280
260

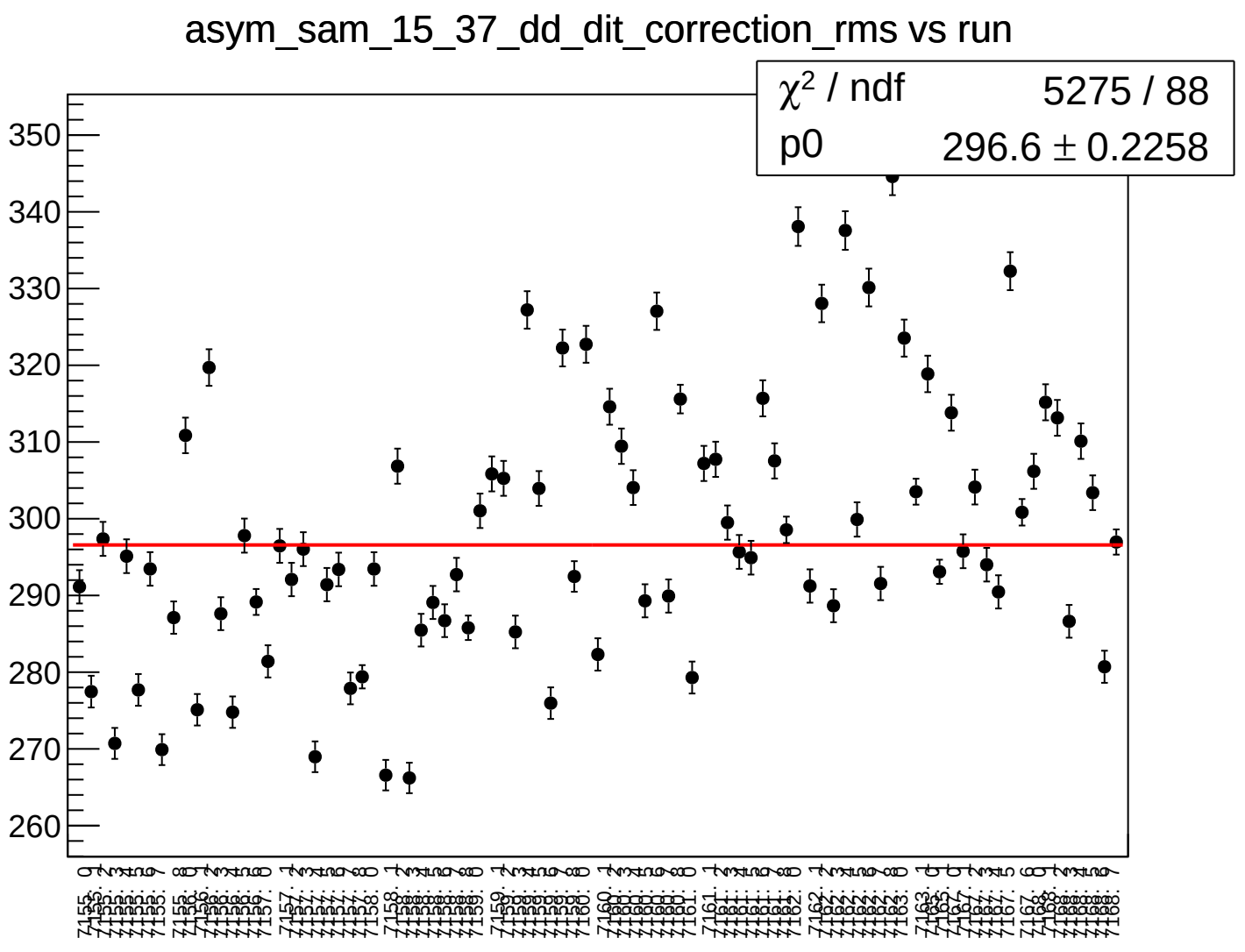

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.32 / 88
p0 −11.24 ± 41.45
pull
Entries 89
Mean 23.86
Std Dev 97.57

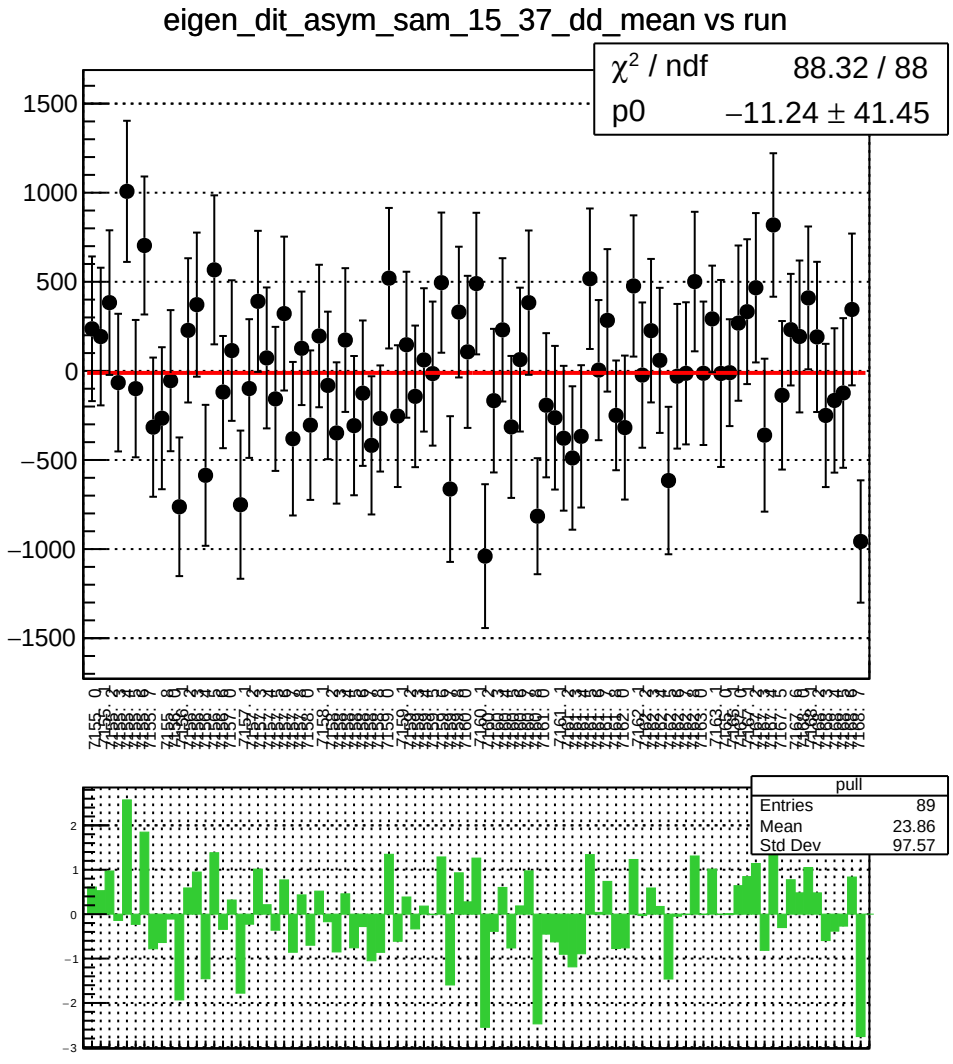

pull1D
Entries 89
Mean 0.009741
Std Dev 0.9961

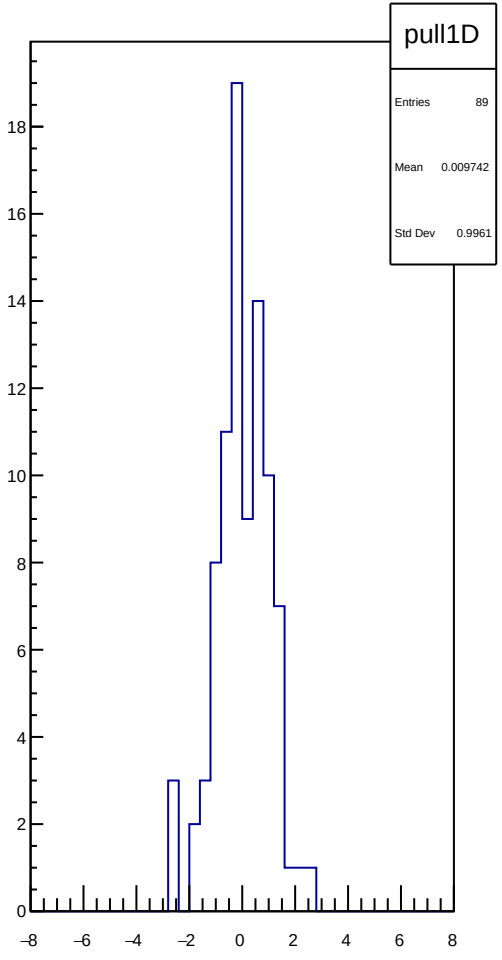

dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2738 / 88
p0 38.52 ± 0.02931
50
48
46
44
42
40
38
36

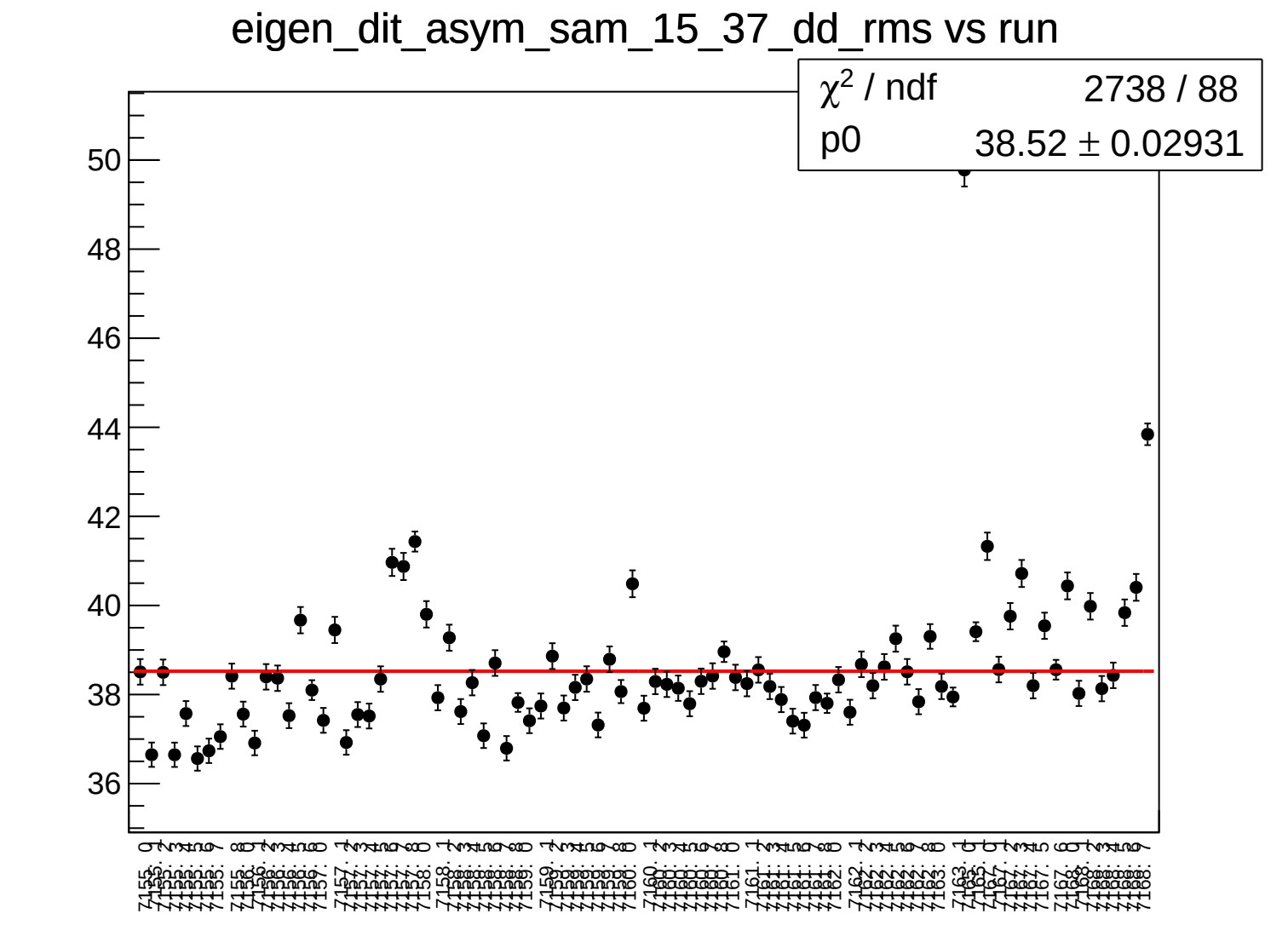

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 58.92 / 88
p0 −65.23 ± 319.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −24.73
Std Dev 131.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

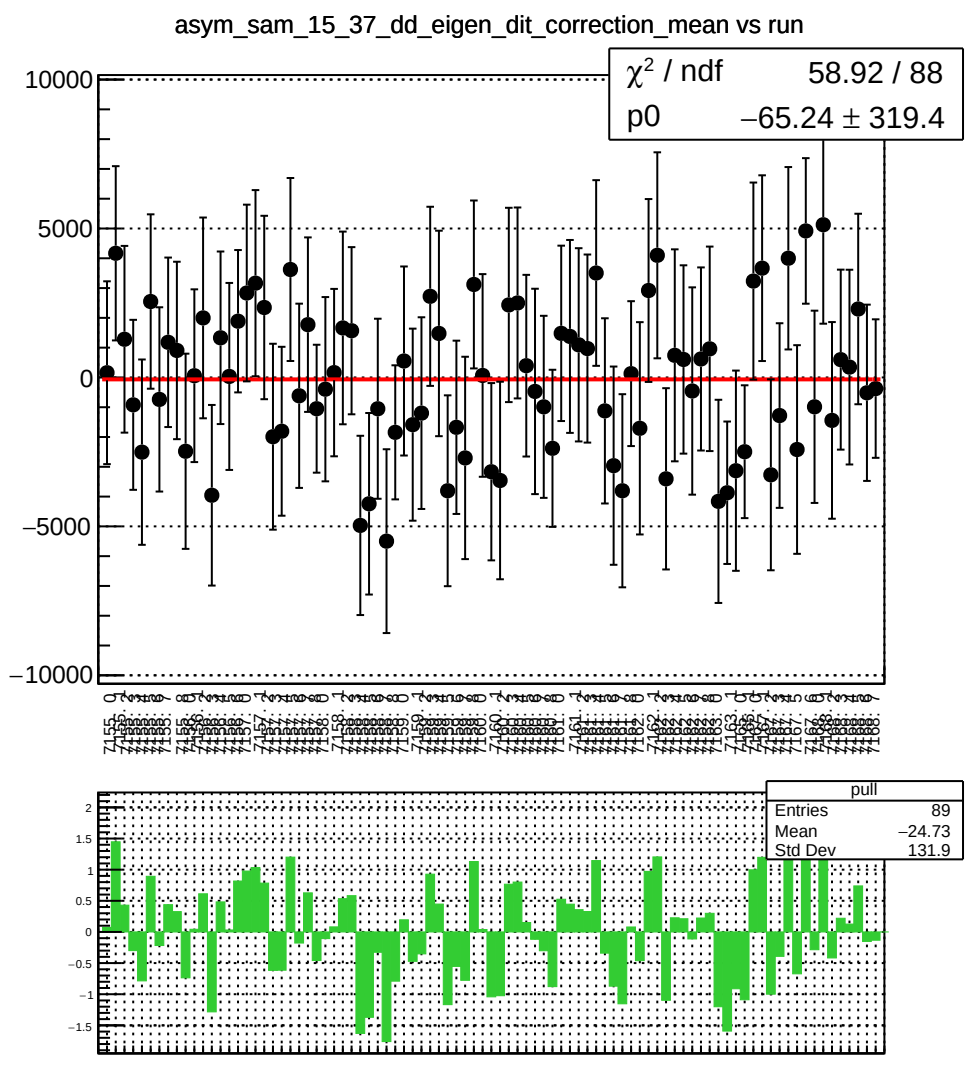

pull1D
Entries 89
Mean 0.004094
Std Dev 0.8136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

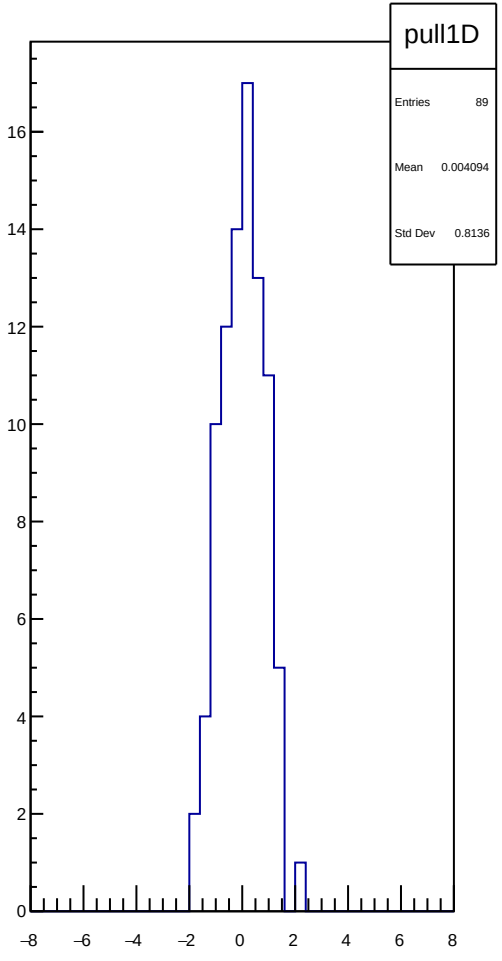

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 5275 / 88
p0 296.6 ± 0.2258
350
340
330
320
310
300
290
280
270
260

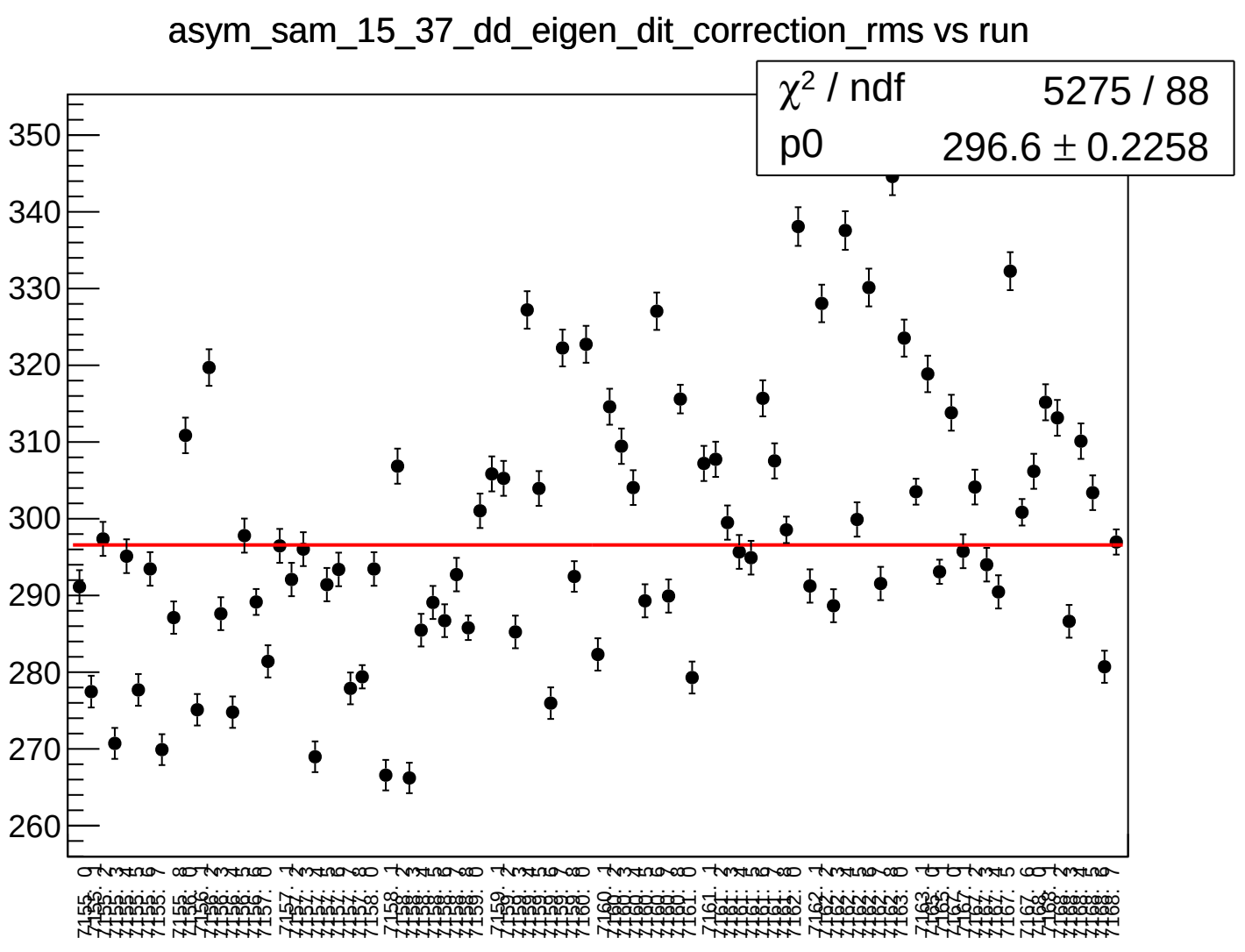

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 88.32 / 88
p0 −11.24 ± 41.45
pull
Entries 89
Mean 23.86
Std Dev 97.57

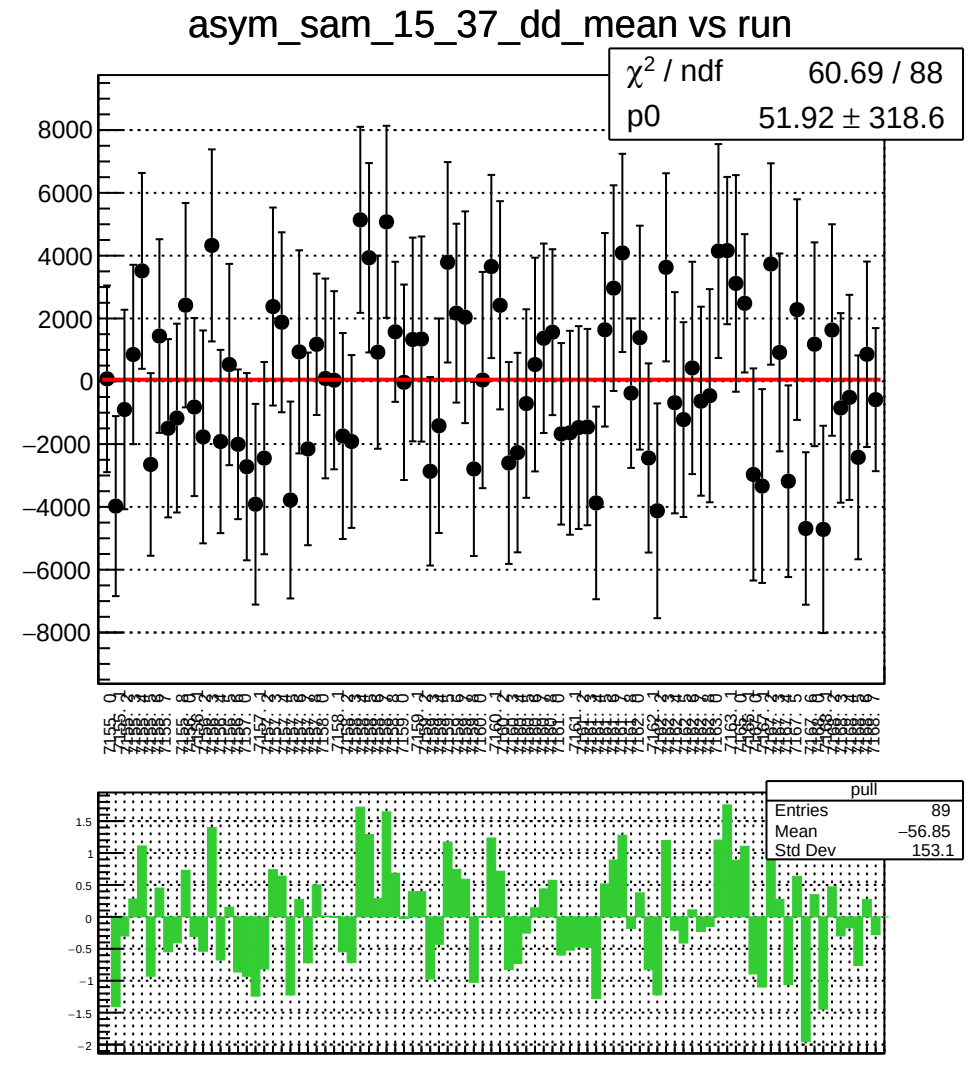

pull1D
Entries 89
Mean 0.009742
Std Dev 0.9961

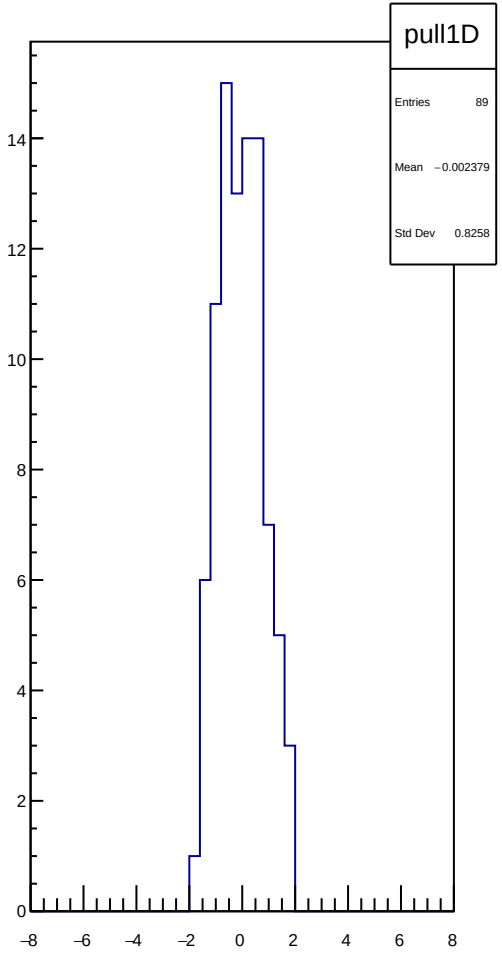

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2738 / 88
p0 38.52 ± 0.02931
50
48
46
44
42
40
38
36

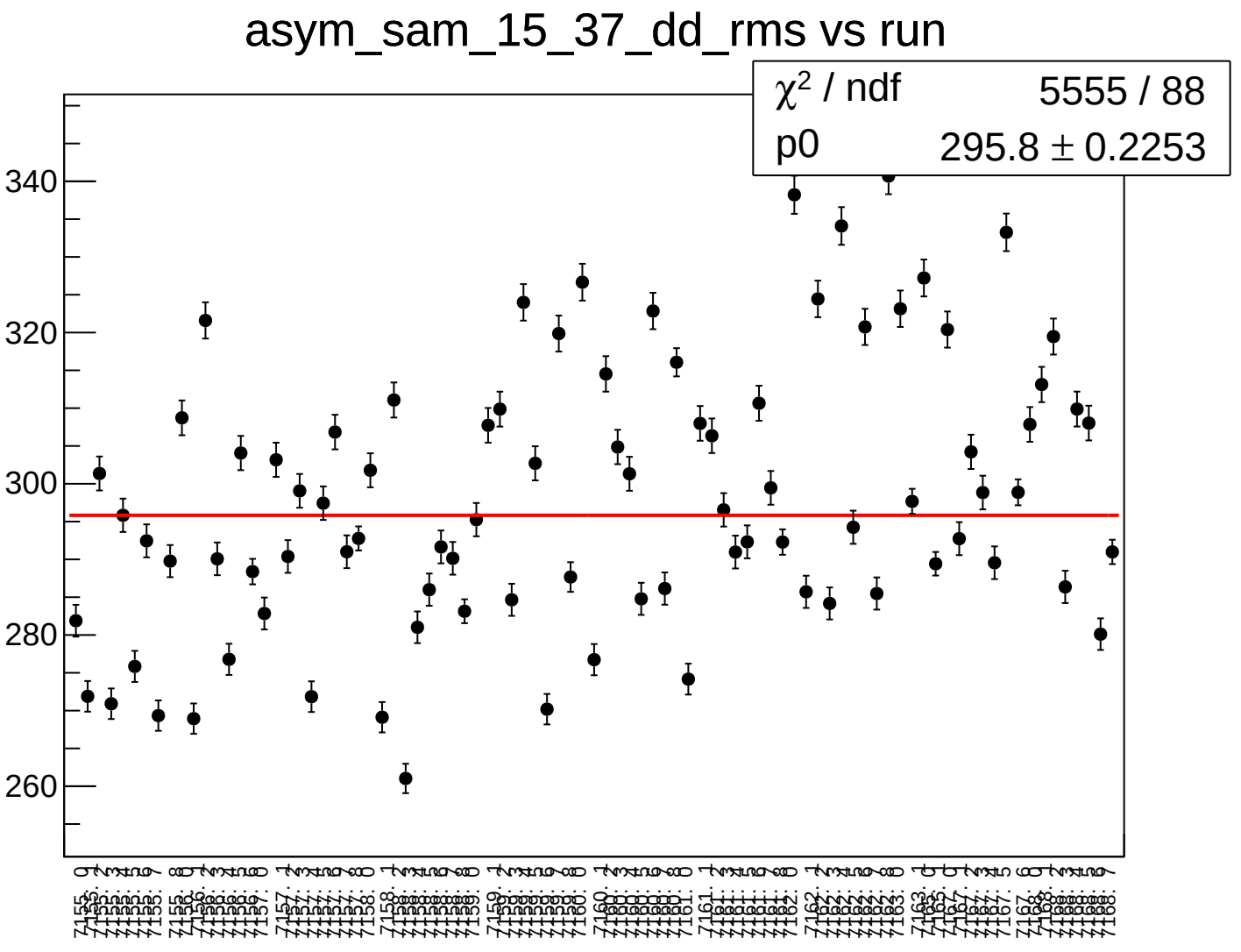

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 58.92 / 88
p0 −65.24 ± 319.4
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −24.73
Std Dev 131.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

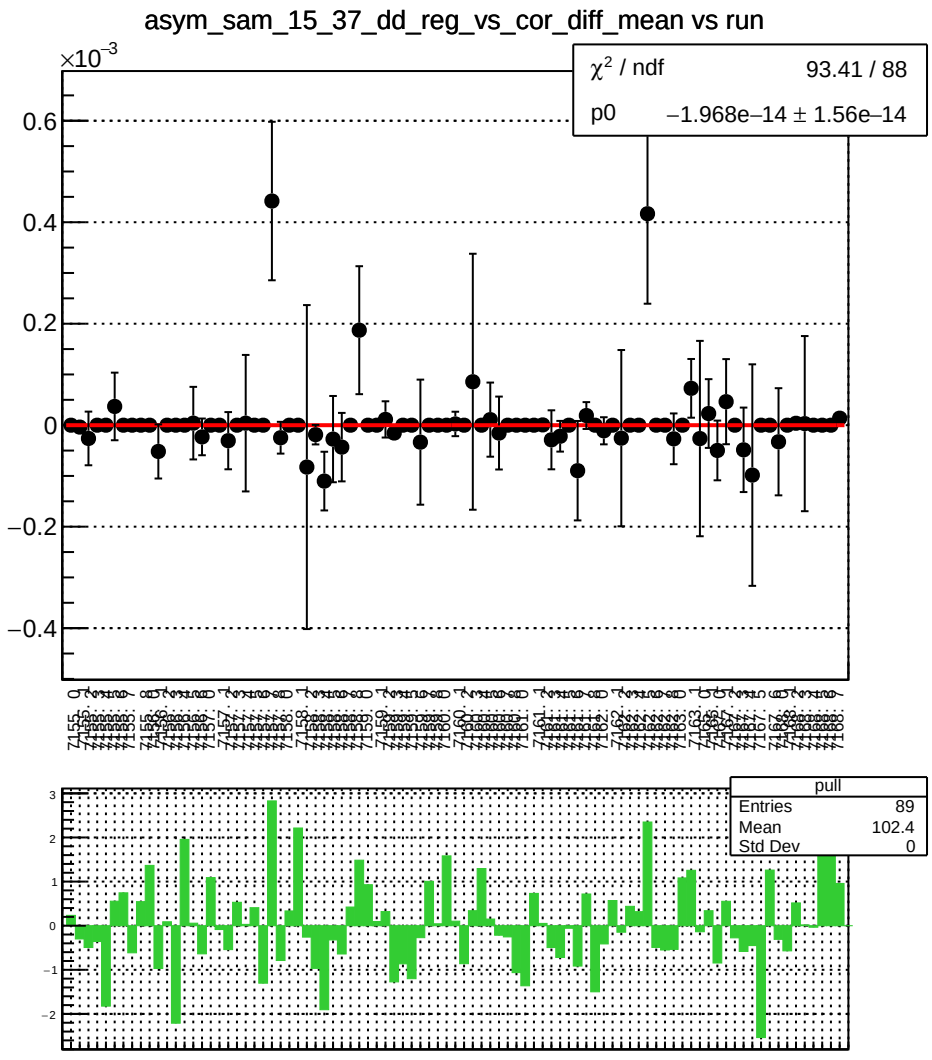

pull1D
Entries 89
Mean 0.004094
Std Dev 0.8136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

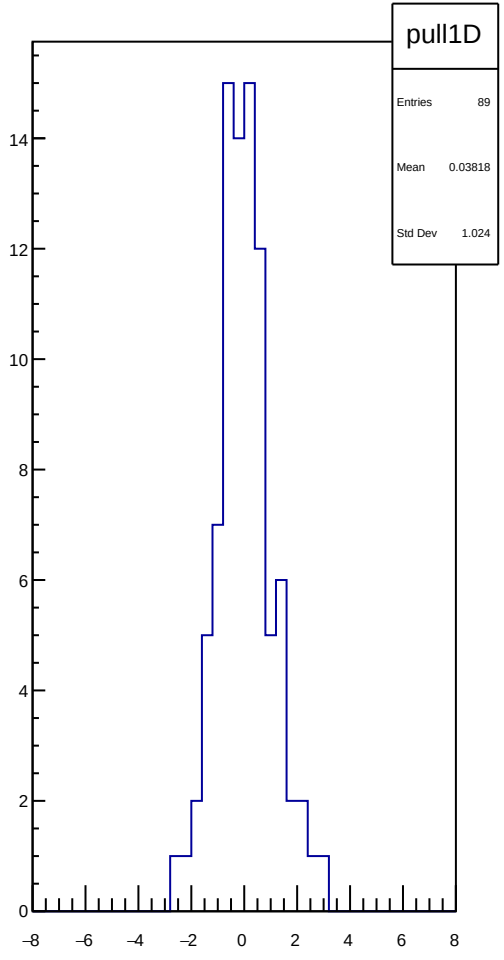

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 5275 / 88
p0 296.6 ± 0.2258
350
340
330
320
310
300
290
280
270
260

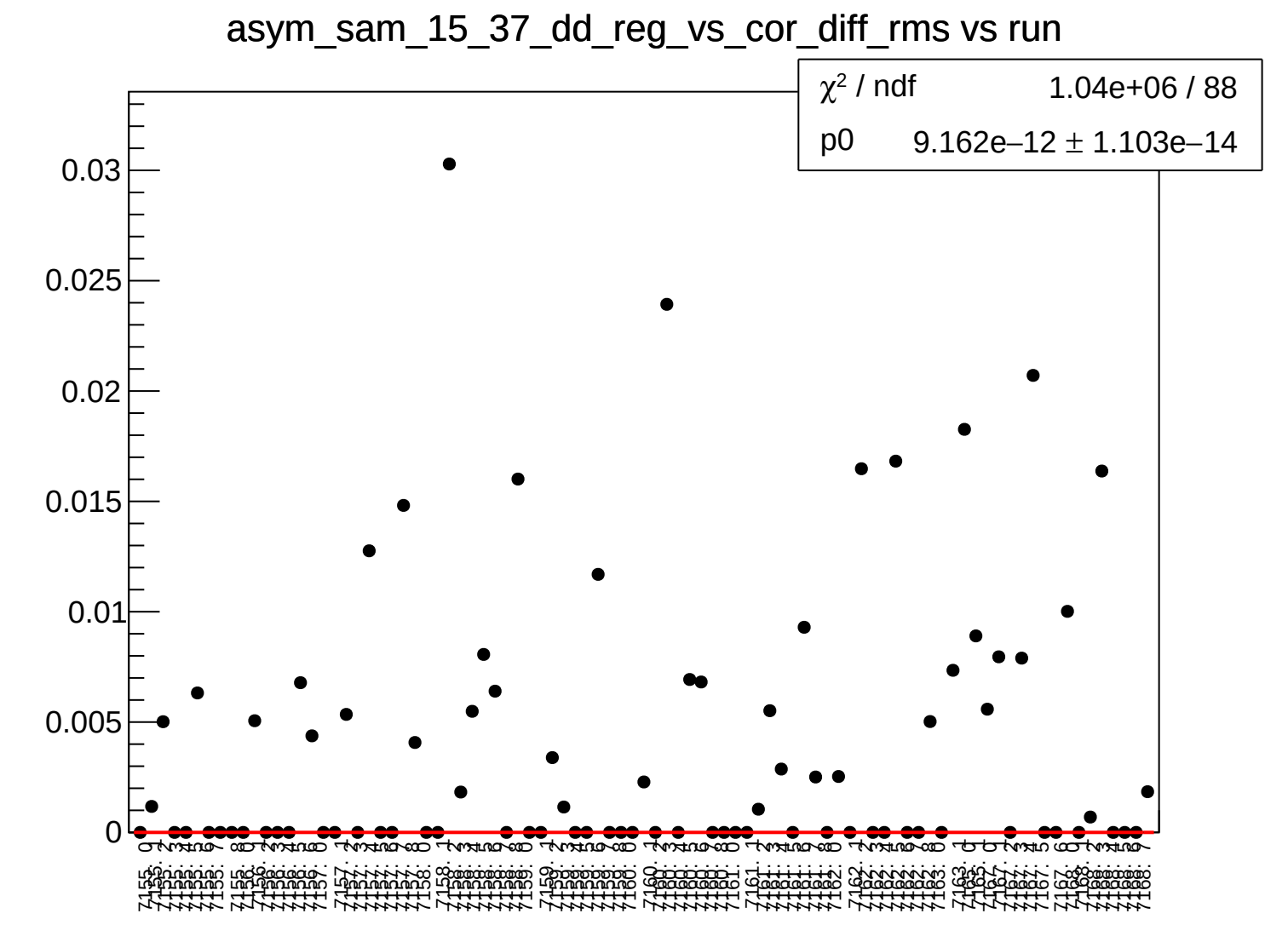

asym_sam_15_37_dd_mean vs run
χ² / ndf 60.69 / 88
p0 51.92 ± 318.6
pull
Entries 89
Mean −56.85
Std Dev 153.1

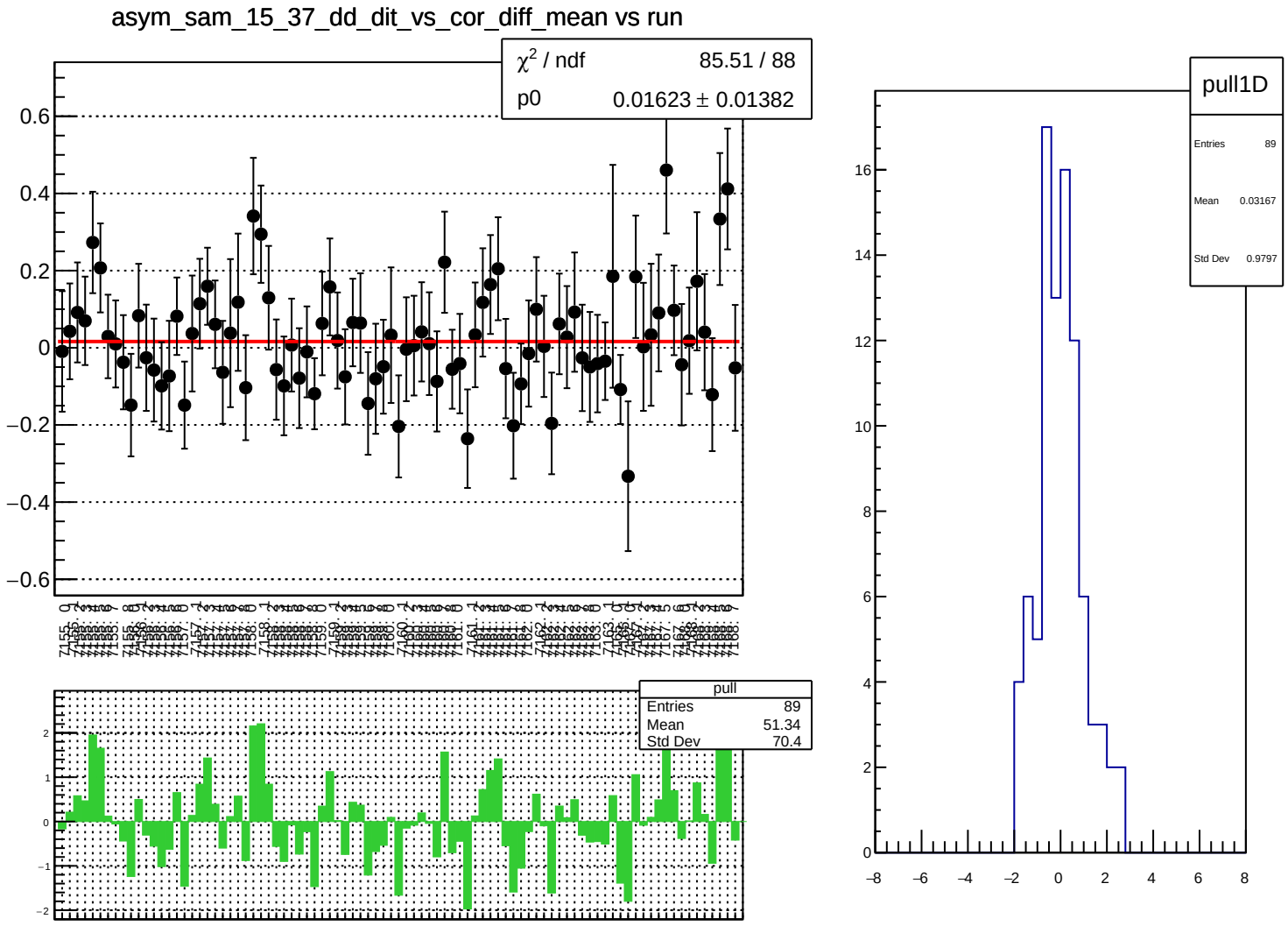

pull1D
Entries 89
Mean −0.002379
Std Dev 0.8258

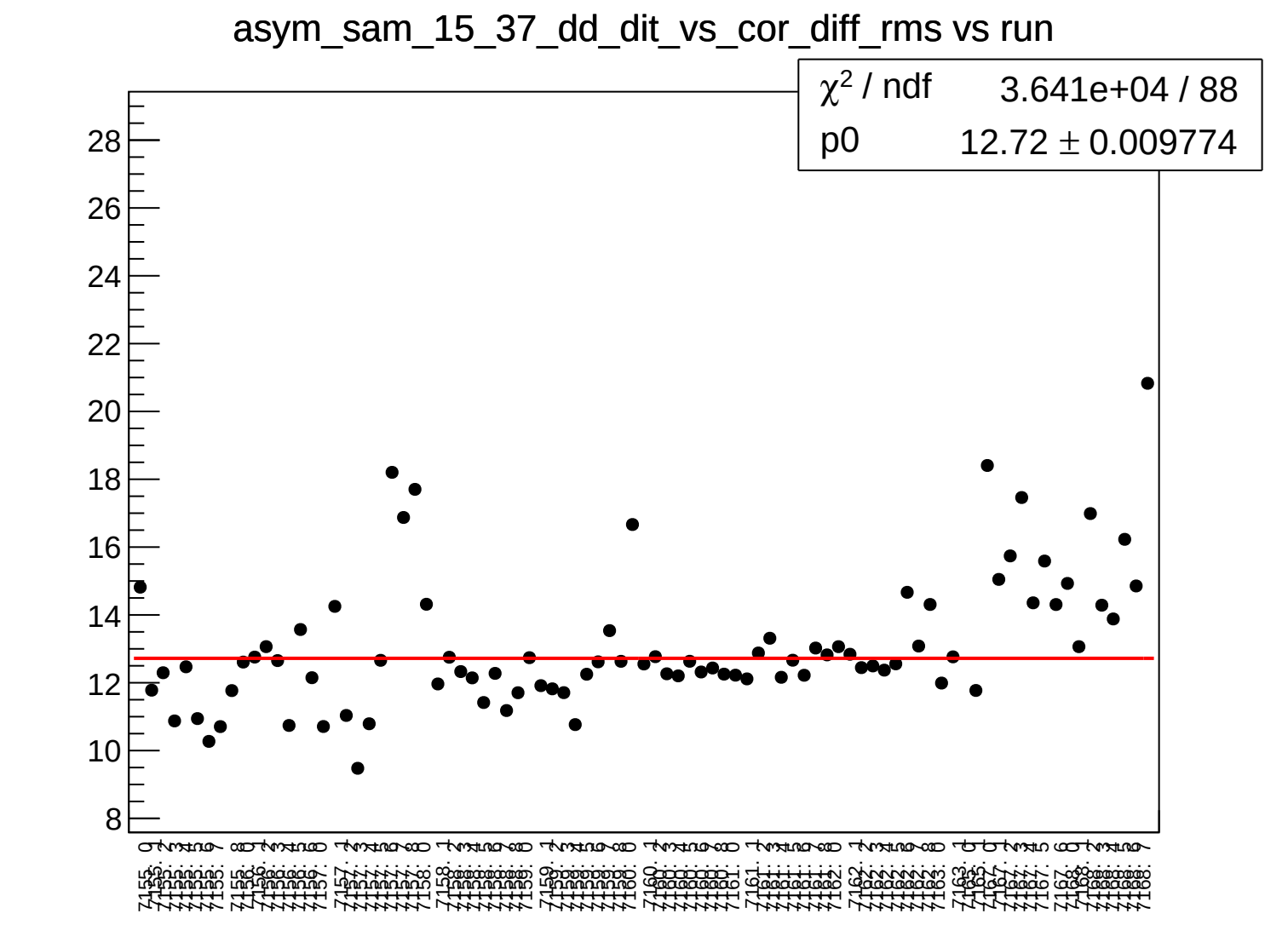

asym_sam_15_37_dd_rms vs run
χ² / ndf 5555 / 88
p0 295.8 ± 0.2253
340
320
300
280
260

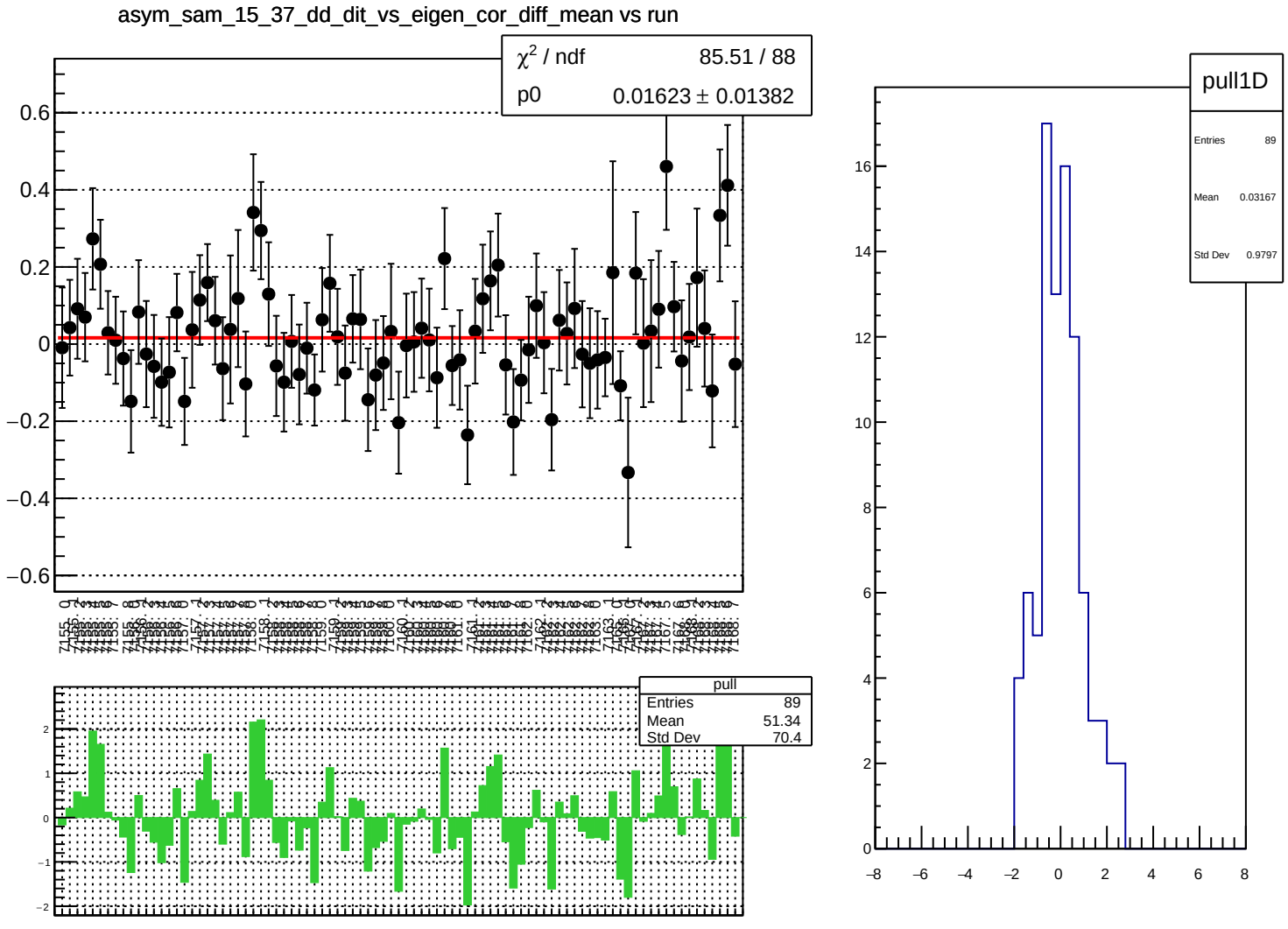

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 93.41 / 88
p0 −1.968e−14 ± 1.56e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 102.4
Std Dev 0
3
2
1
0
−1
−2

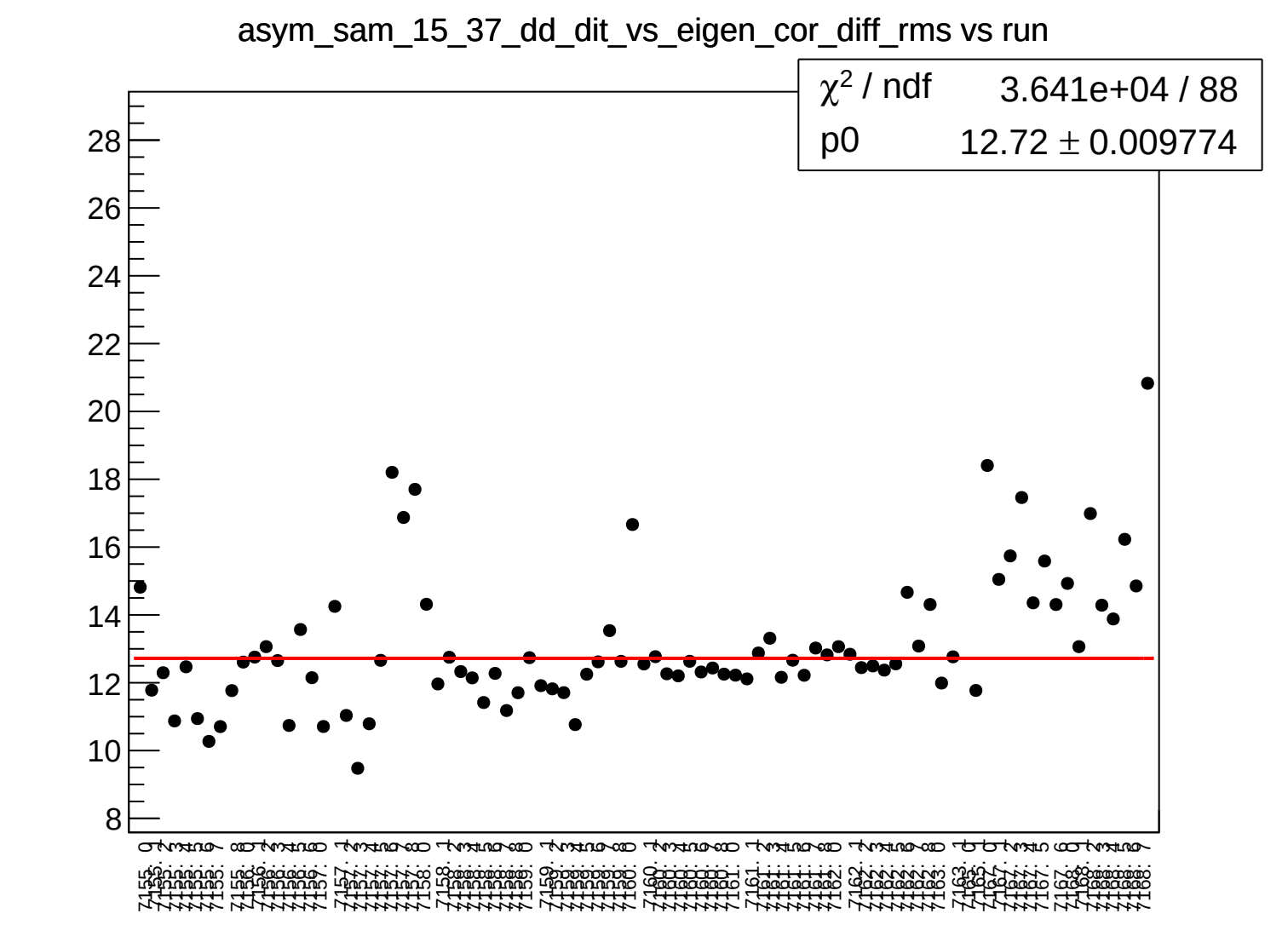

pull1D
Entries 89
Mean 0.03818
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

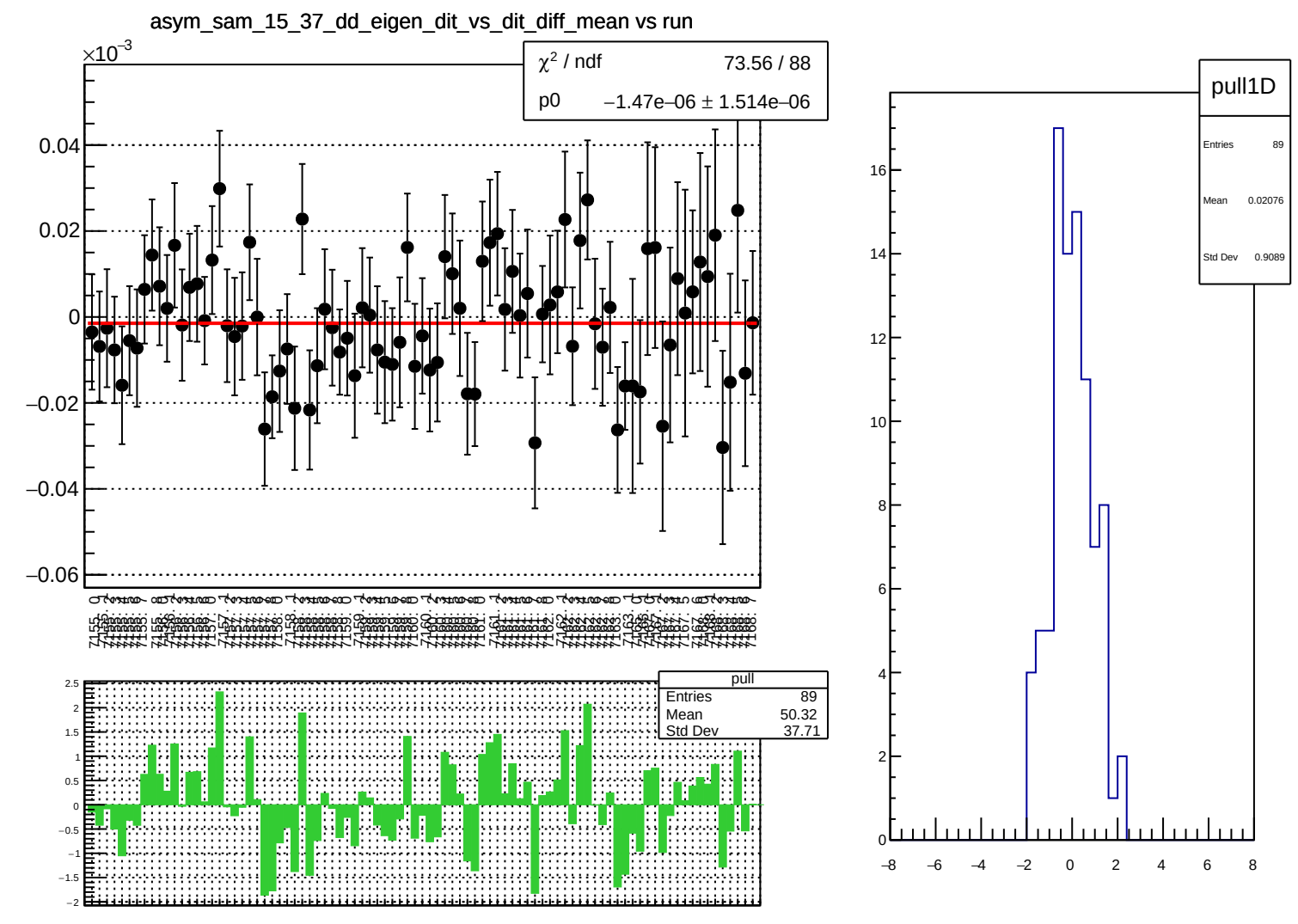

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.04e+06 / 88
p0 9.162e−12 ± 1.103e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

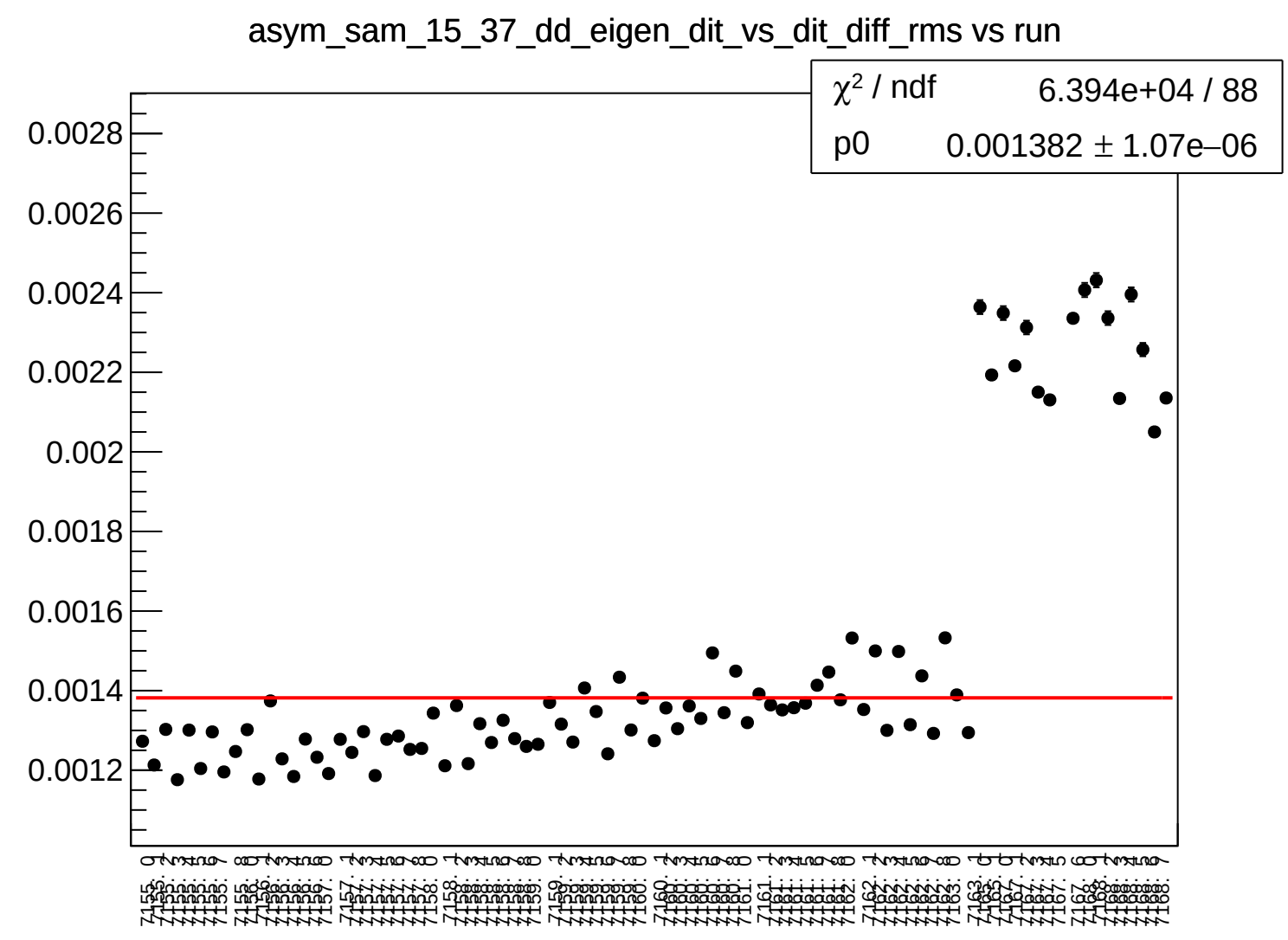

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 88
p0 0.01623 ± 0.01382
pull
Entries 89
Mean 51.34
Std Dev 70.4
pull1D
Entries 89
Mean 0.03167
Std Dev 0.9797

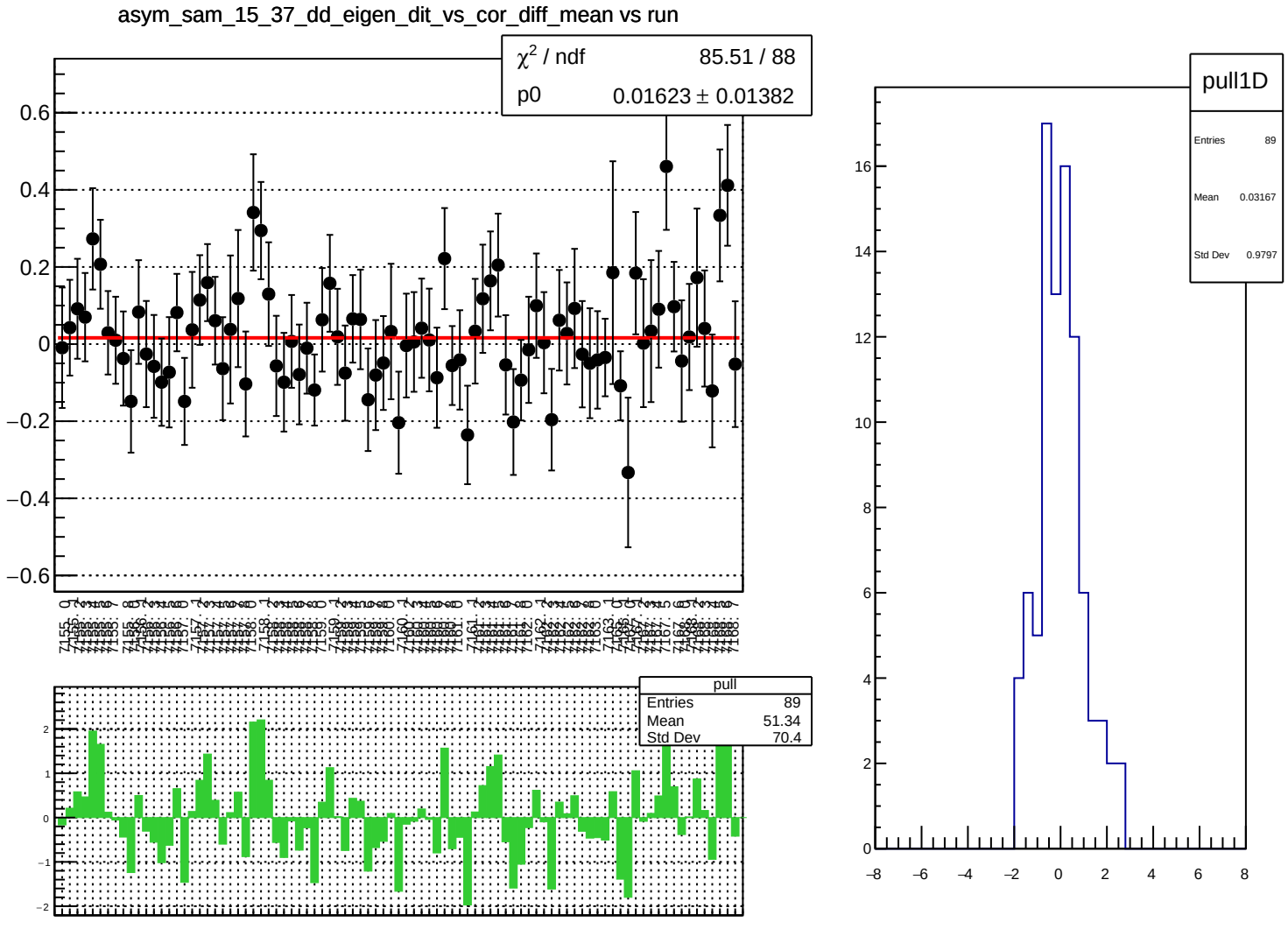

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 88
p0 12.72 ± 0.009774
28
26
24
22
20
18
16
14
12
10
8

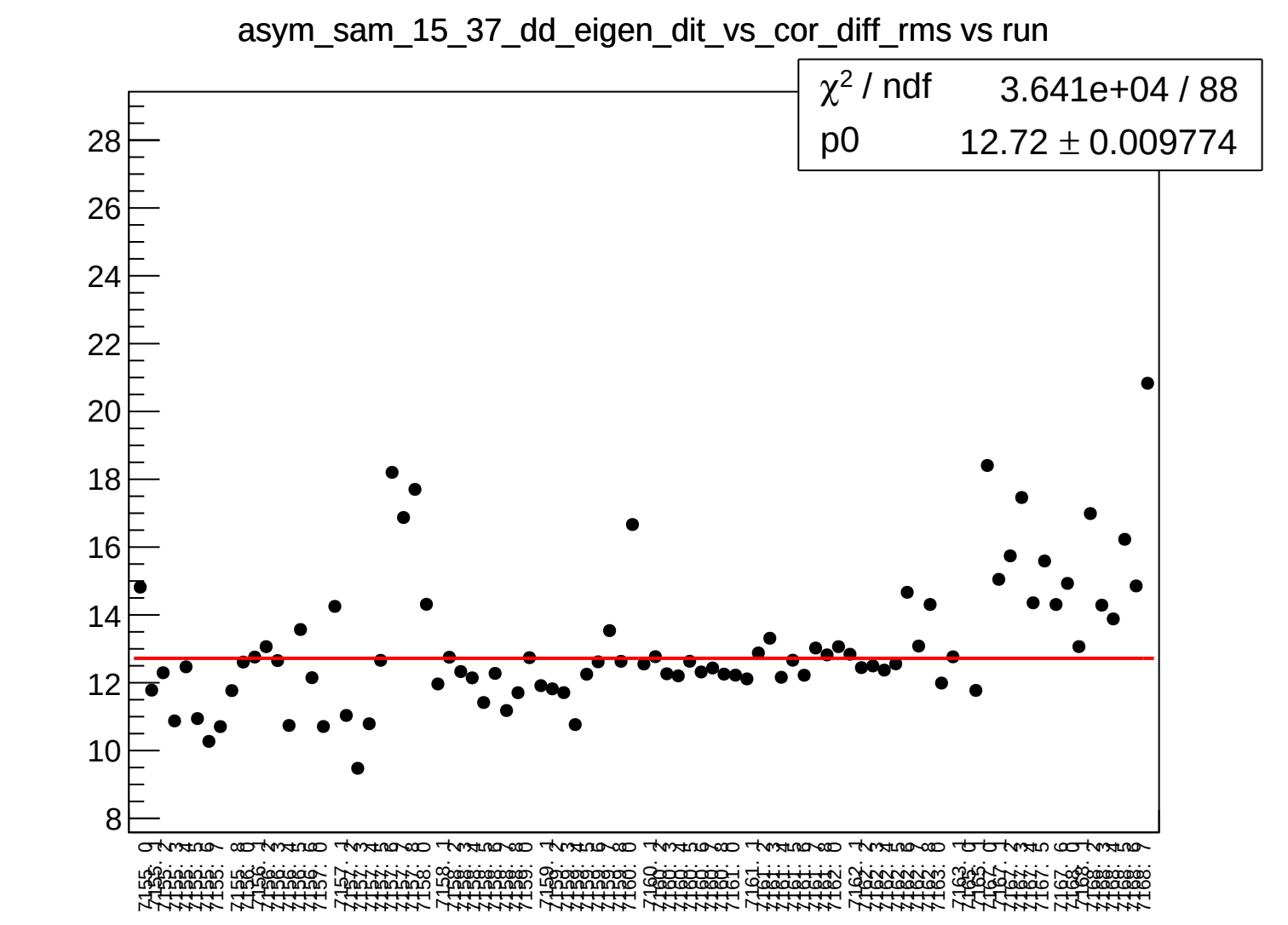

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 88
p0 0.01623 ± 0.01382
pull
Entries 89
Mean 51.34
Std Dev 70.4
pull1D
Entries 89
Mean 0.03167
Std Dev 0.9797

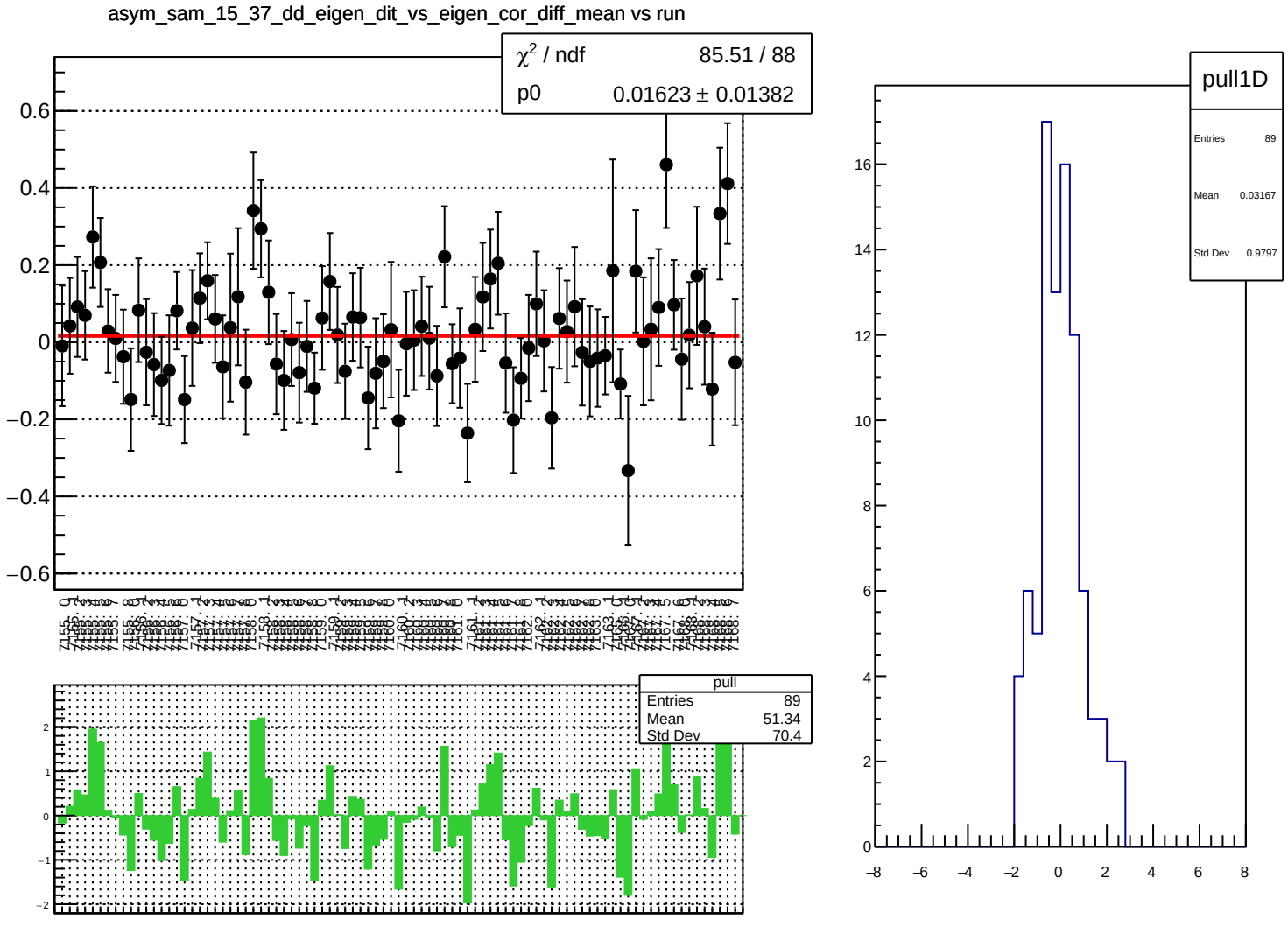

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 88
p0 12.72 ± 0.009774
28
26
24
22
20
18
16
14
12
10
8

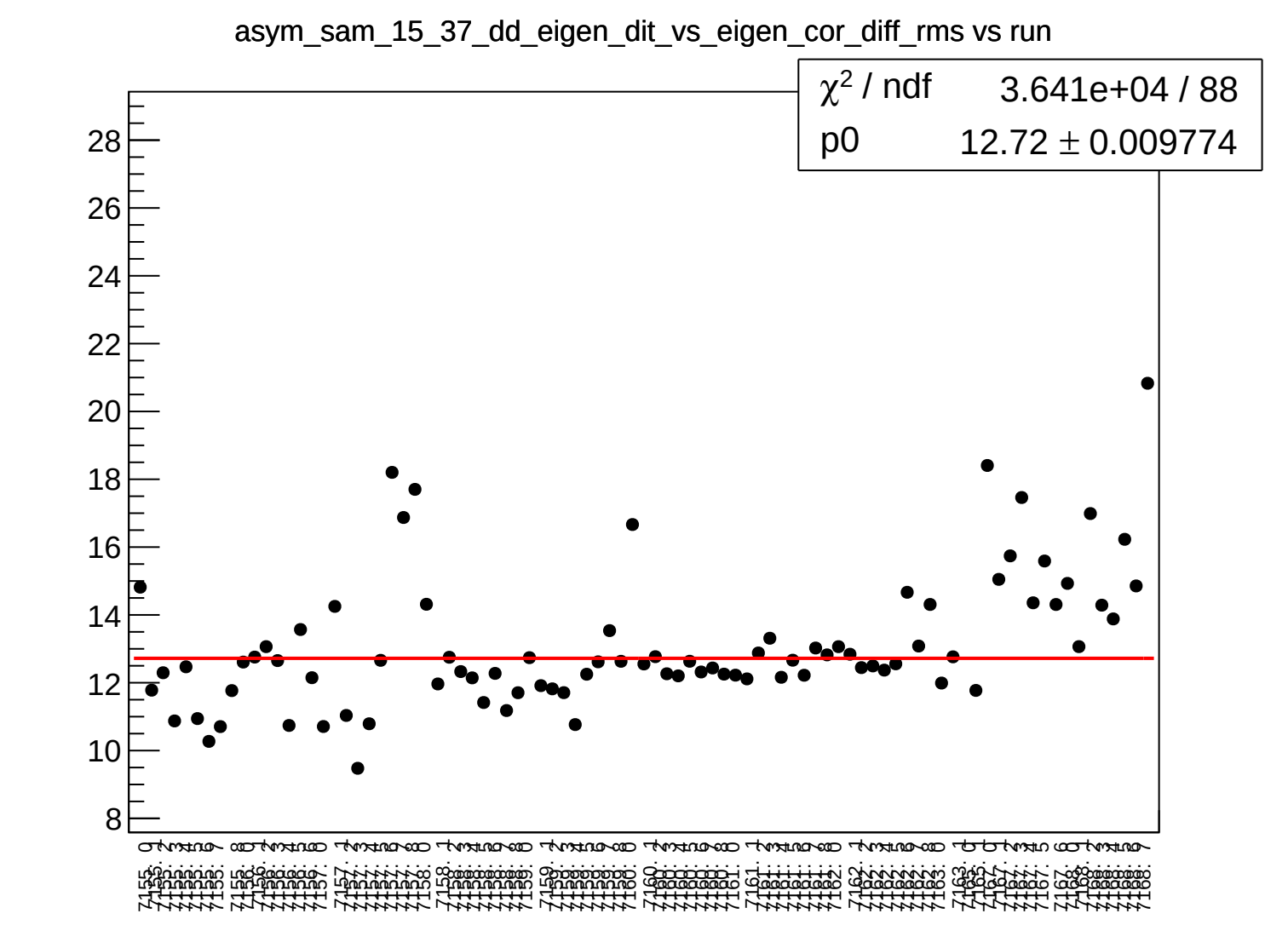

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.56 / 88
p0 −1.47e−06 ± 1.514e−06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 50.32
Std Dev 37.71
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.02076
Std Dev 0.9089
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

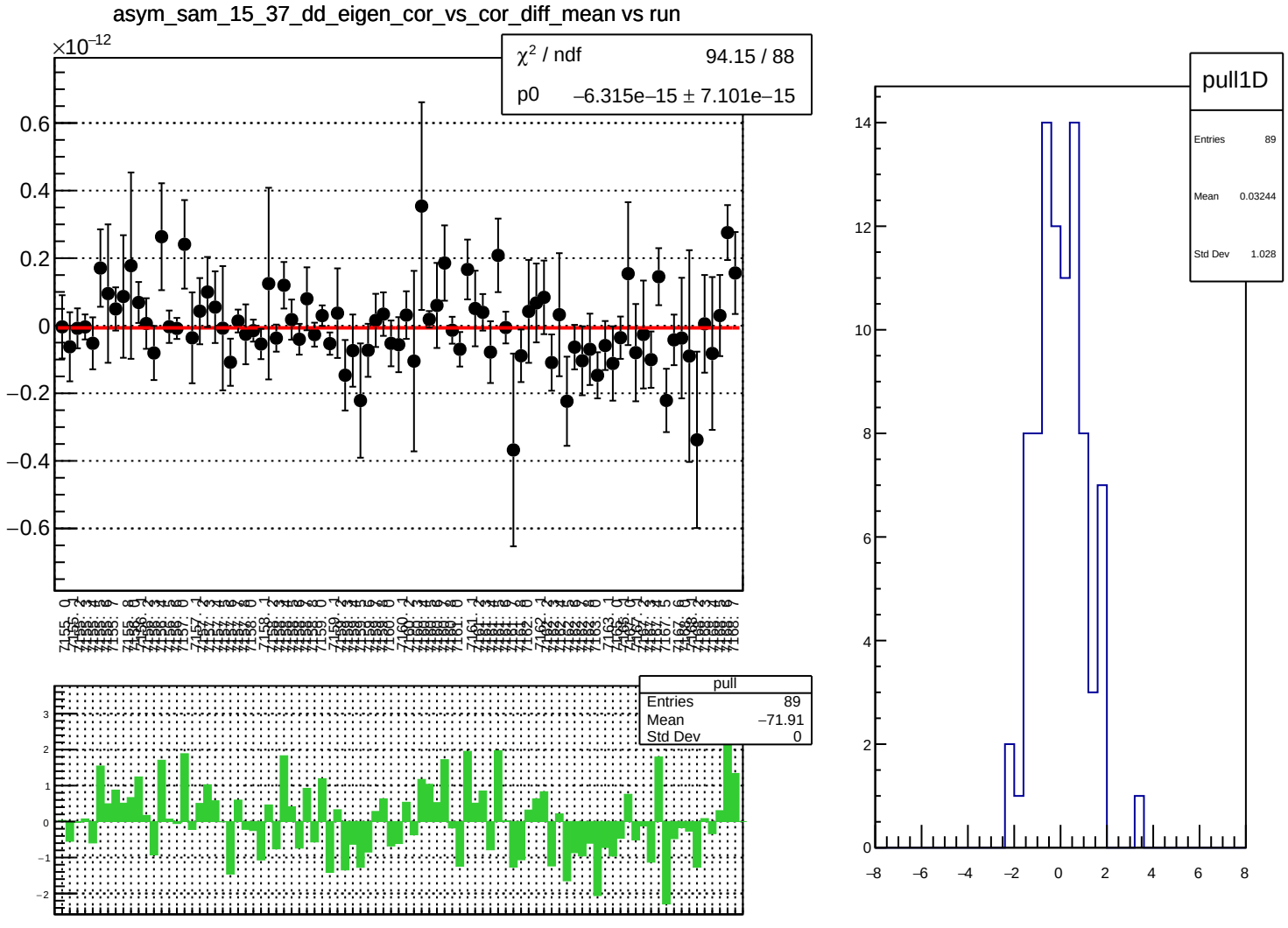

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.394e+04 / 88
p0 0.001382 ± 1.07e–06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

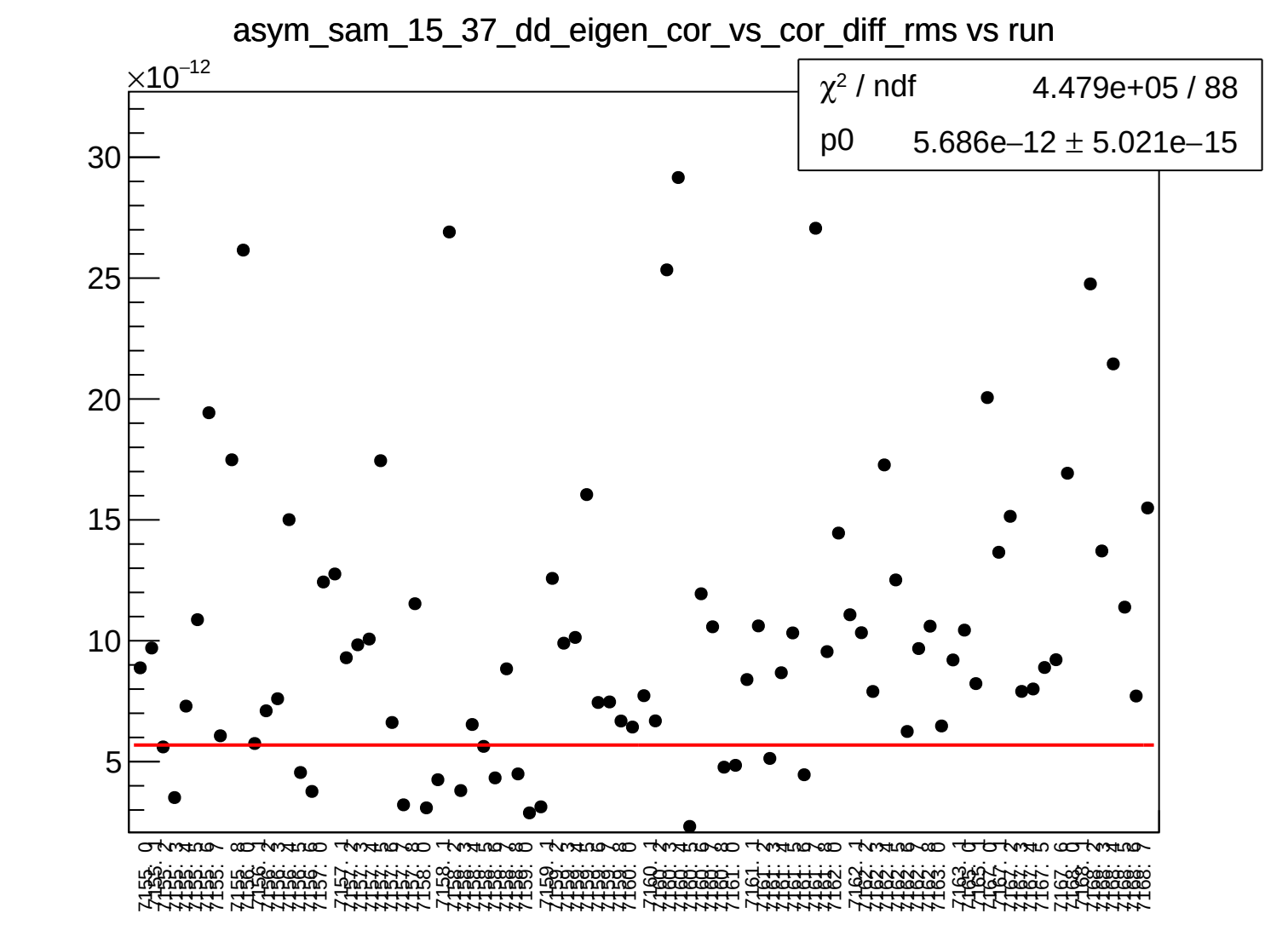

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.51 / 88
p0 0.01623 ± 0.01382
pull
Entries 89
Mean 51.34
Std Dev 70.4
pull1D
Entries 89
Mean 0.03167
Std Dev 0.9797

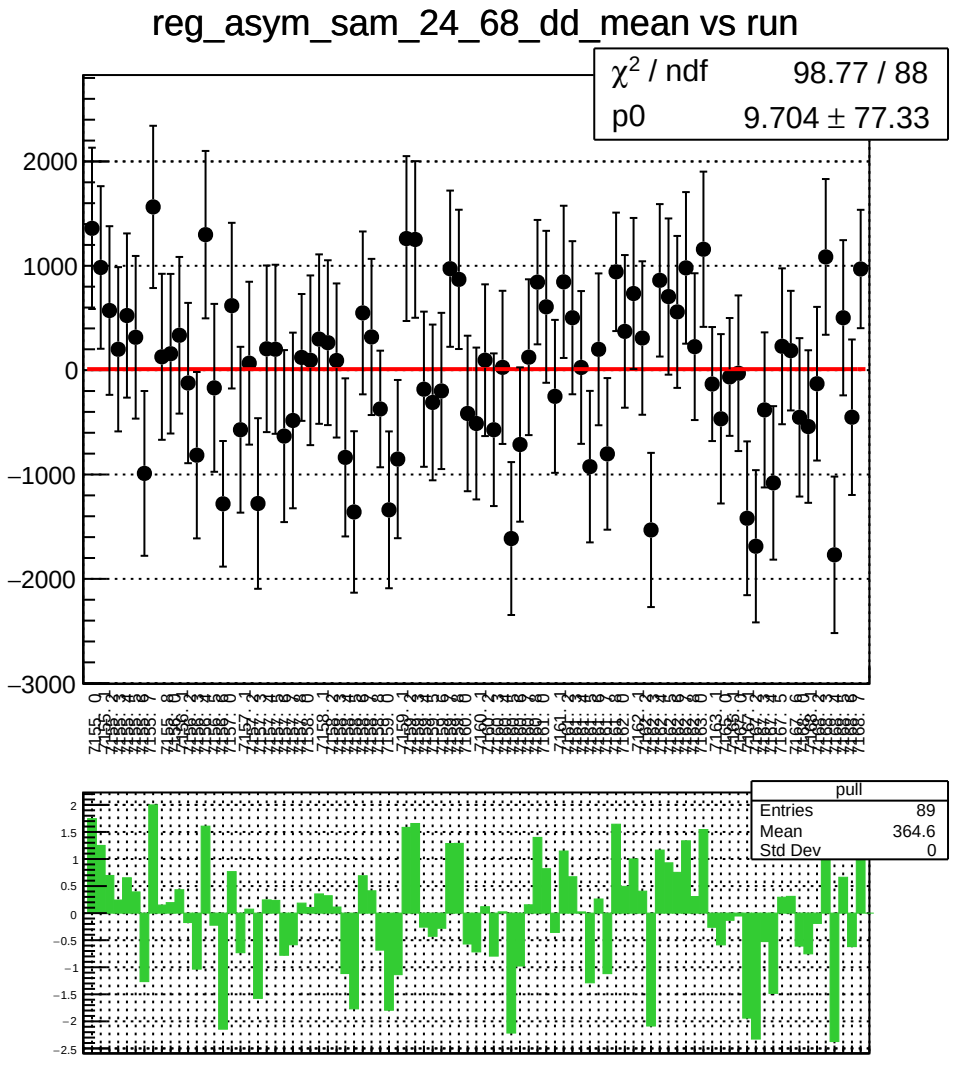

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.641e+04 / 88
p0 12.72 ± 0.009774
28
26
24
22
20
18
16
14
12
10
8

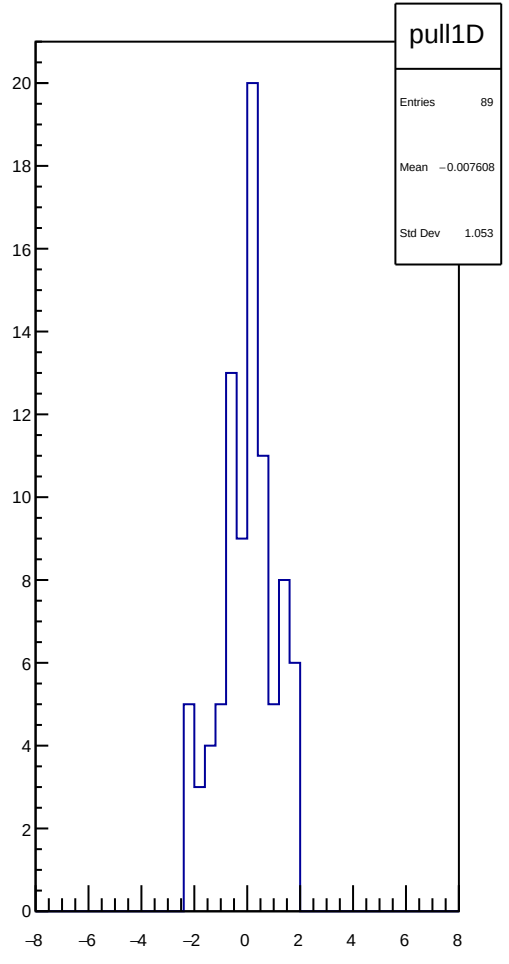

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.51 / 88
p0 0.01623 ± 0.01382
pull
Entries 89
Mean 51.34
Std Dev 70.4
pull1D
Entries 89
Mean 0.03167
Std Dev 0.9797

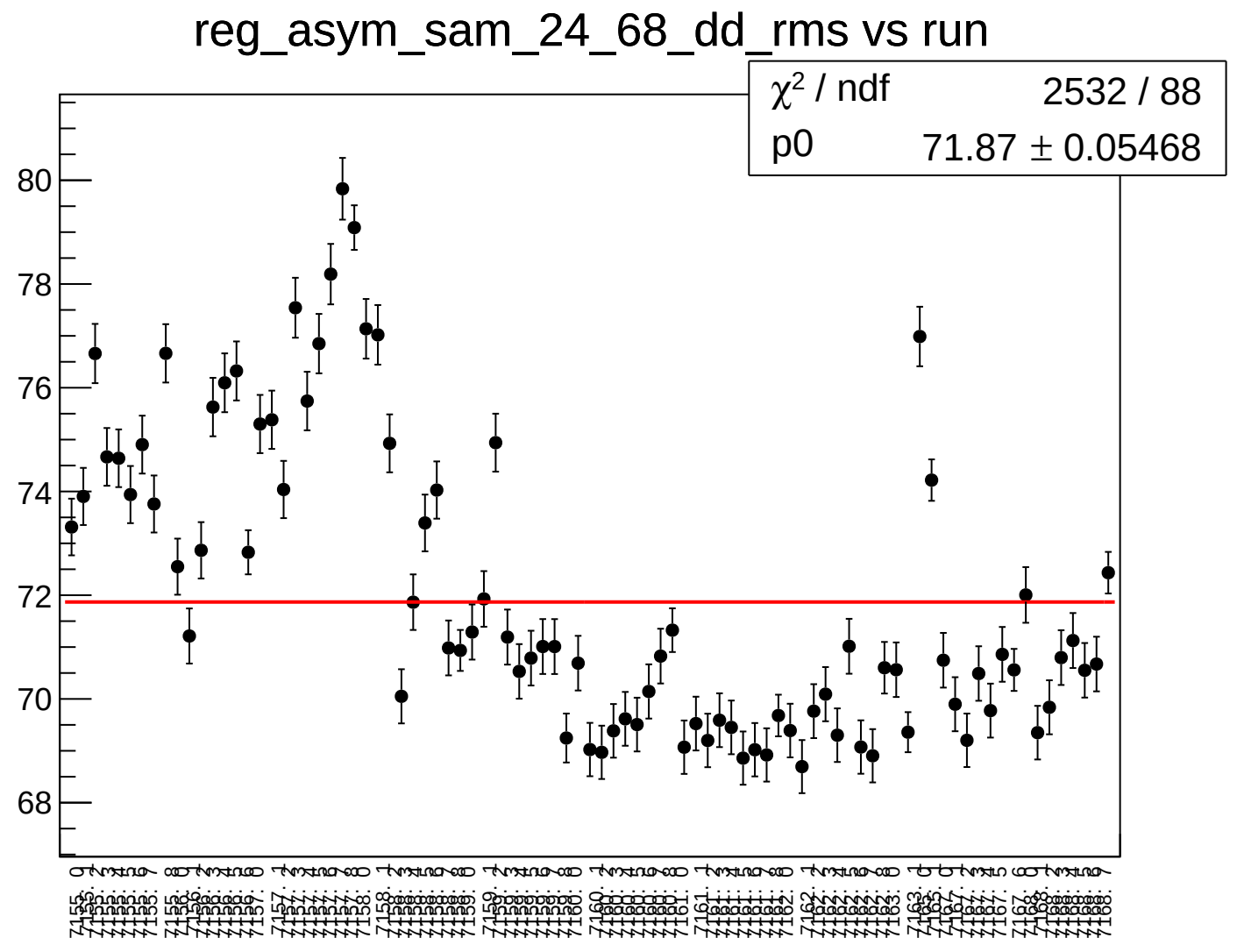

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.641e+04 / 88
p0 12.72 ± 0.009774
28
26
24
22
20
18
16
14
12
10
8

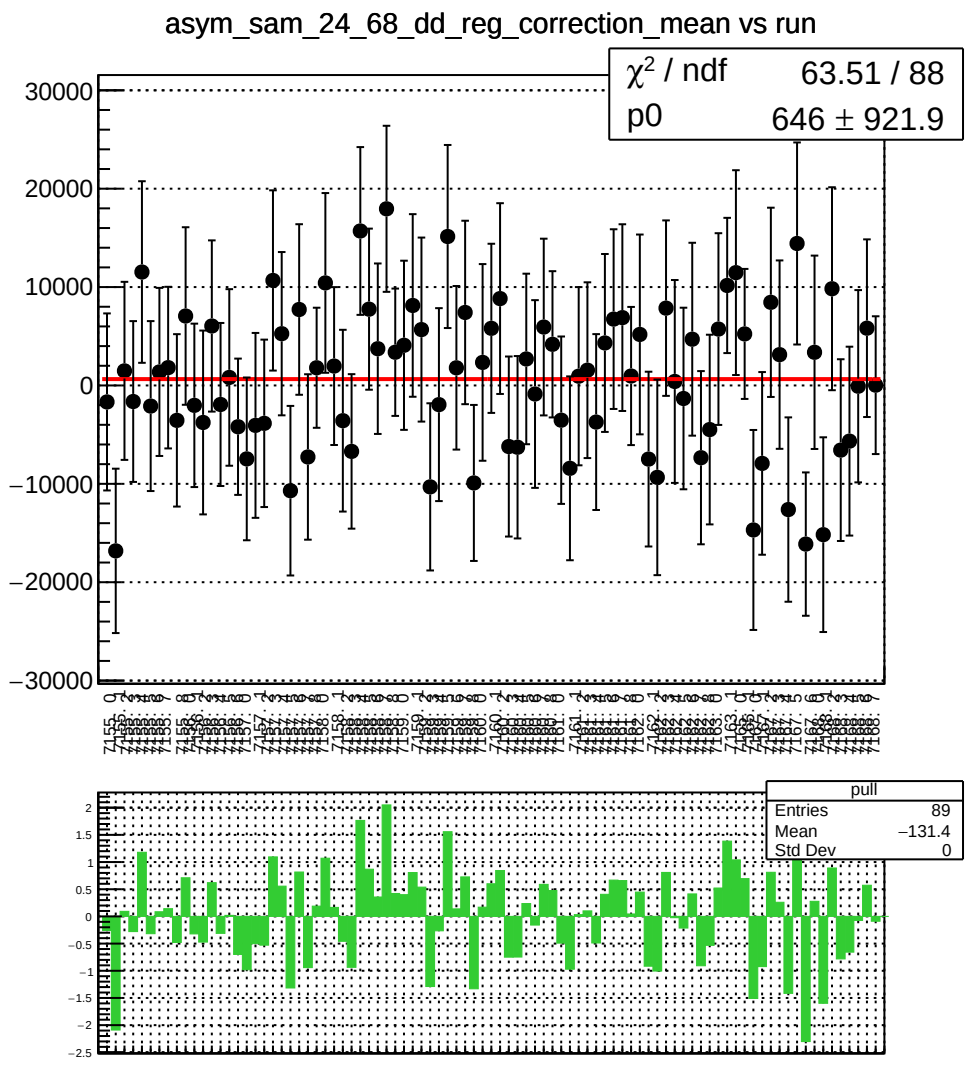

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 94.15 / 88
p0 −6.315e−15 ± 7.101e−15
pull
Entries 89
Mean −71.91
Std Dev 0
pull1D
Entries 89
Mean 0.03244
Std Dev 1.028

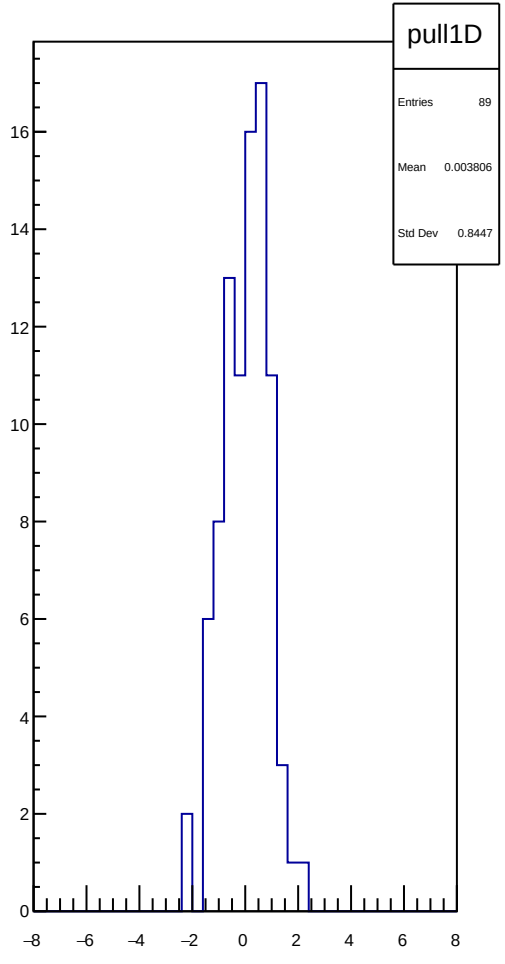

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.479e+05 / 88
p0 5.686e−12 ± 5.021e−15
30
25
20
15
10
5

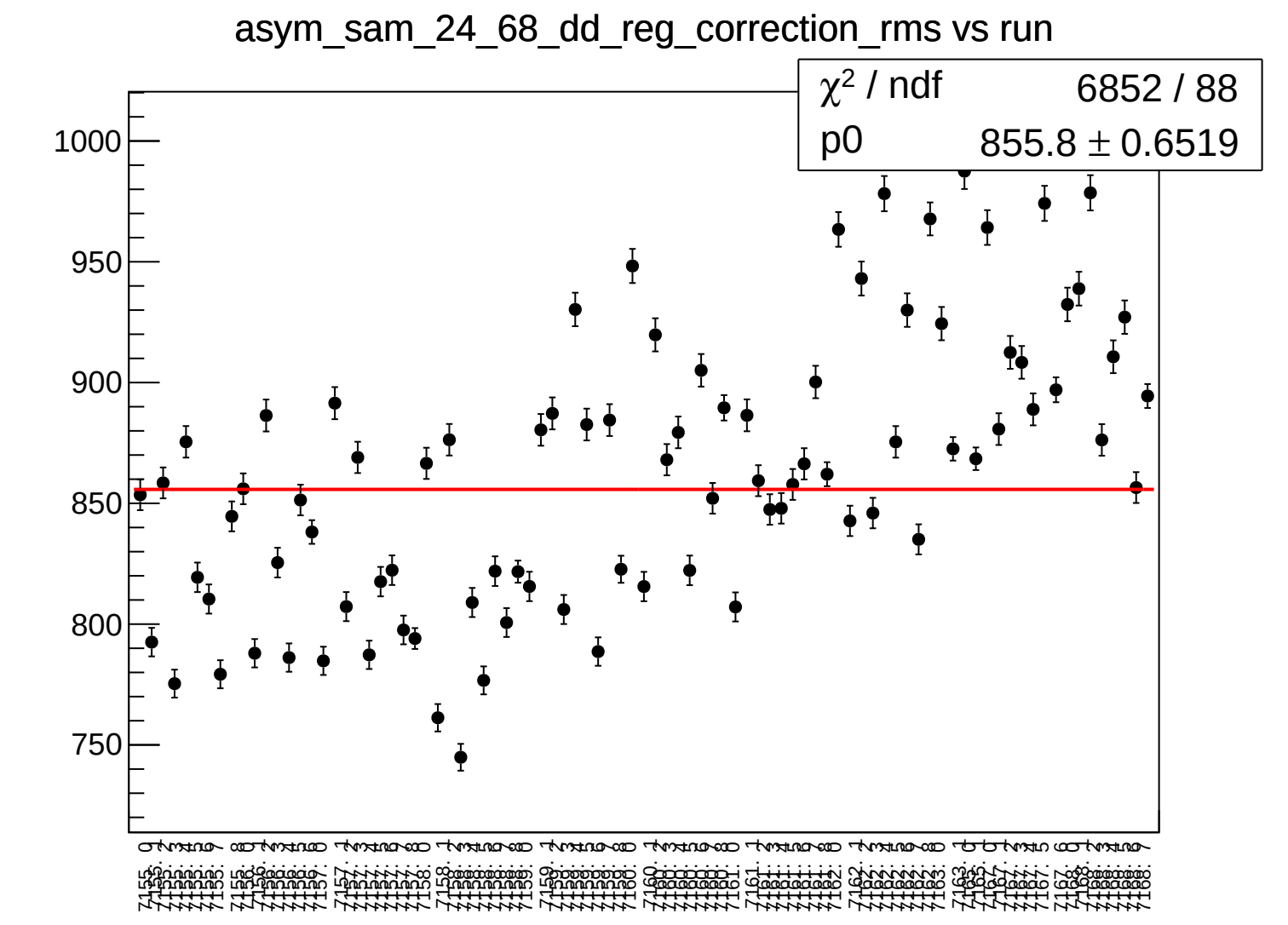

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 98.77 / 88
p0 9.704 ± 77.33
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 364.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

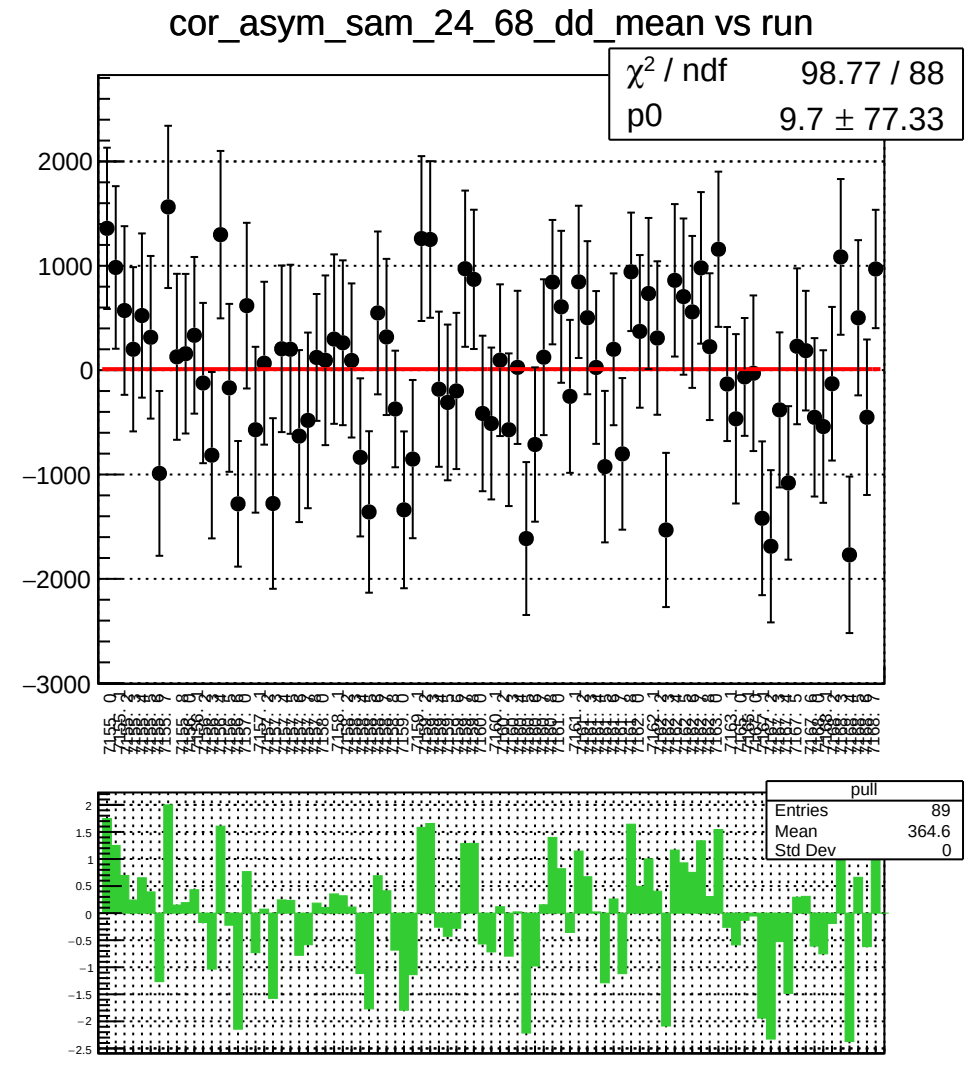

pull1D
Entries 89
Mean −0.007608
Std Dev 1.053
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

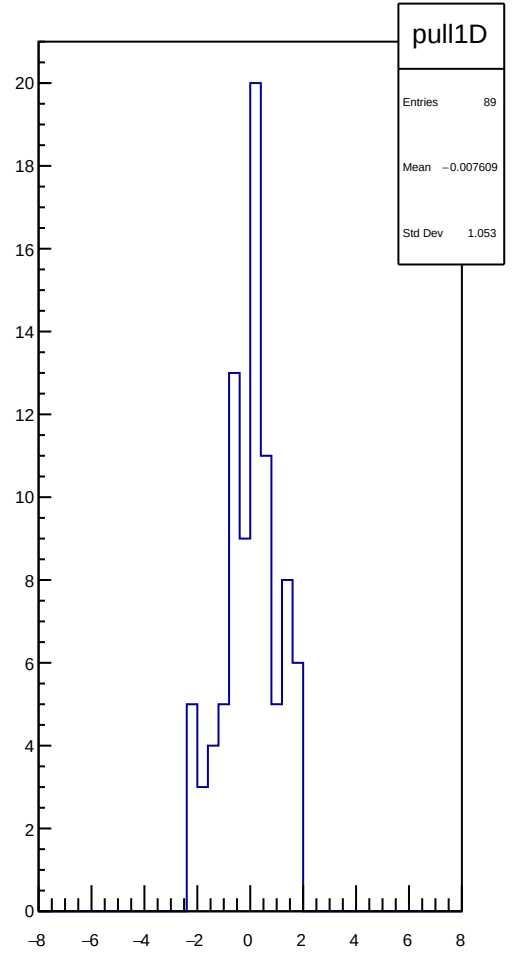

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 2532 / 88
p0 71.87 ± 0.05468
80
78
76
74
72
70
68

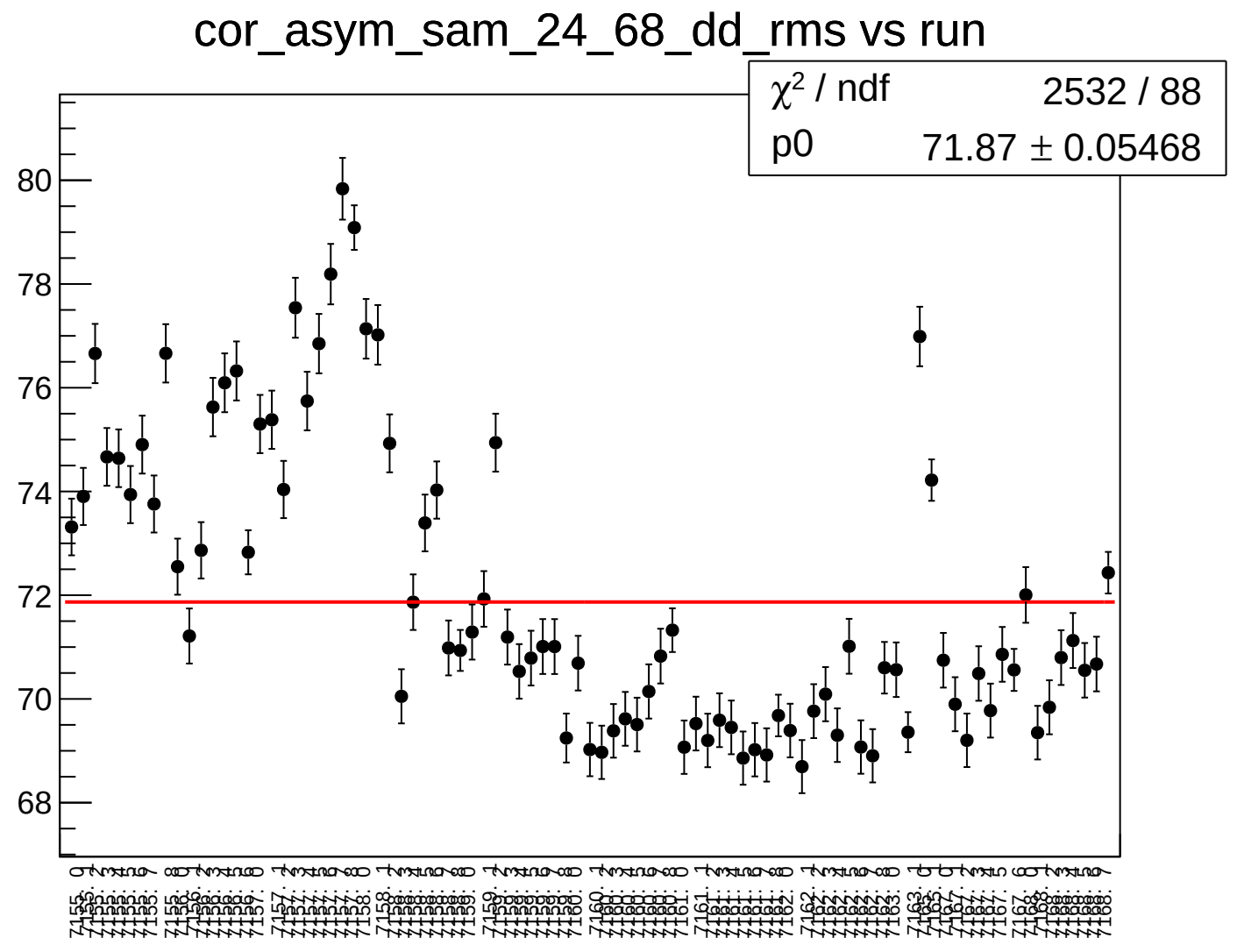

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 63.51 / 88
p0 646 ± 921.9
pull
Entries 89
Mean −131.4
Std Dev 0

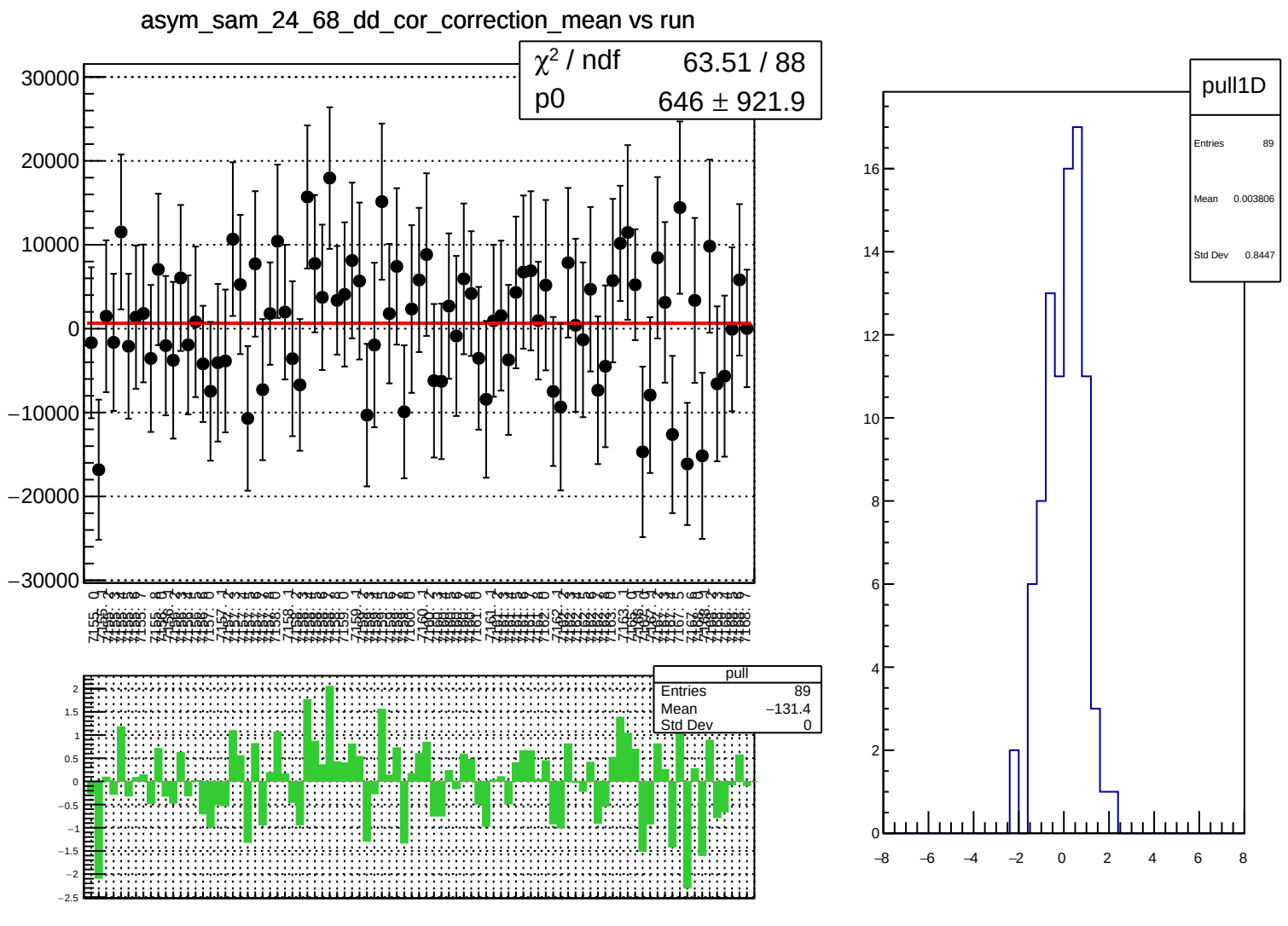

pull1D
Entries 89
Mean 0.003806
Std Dev 0.8447

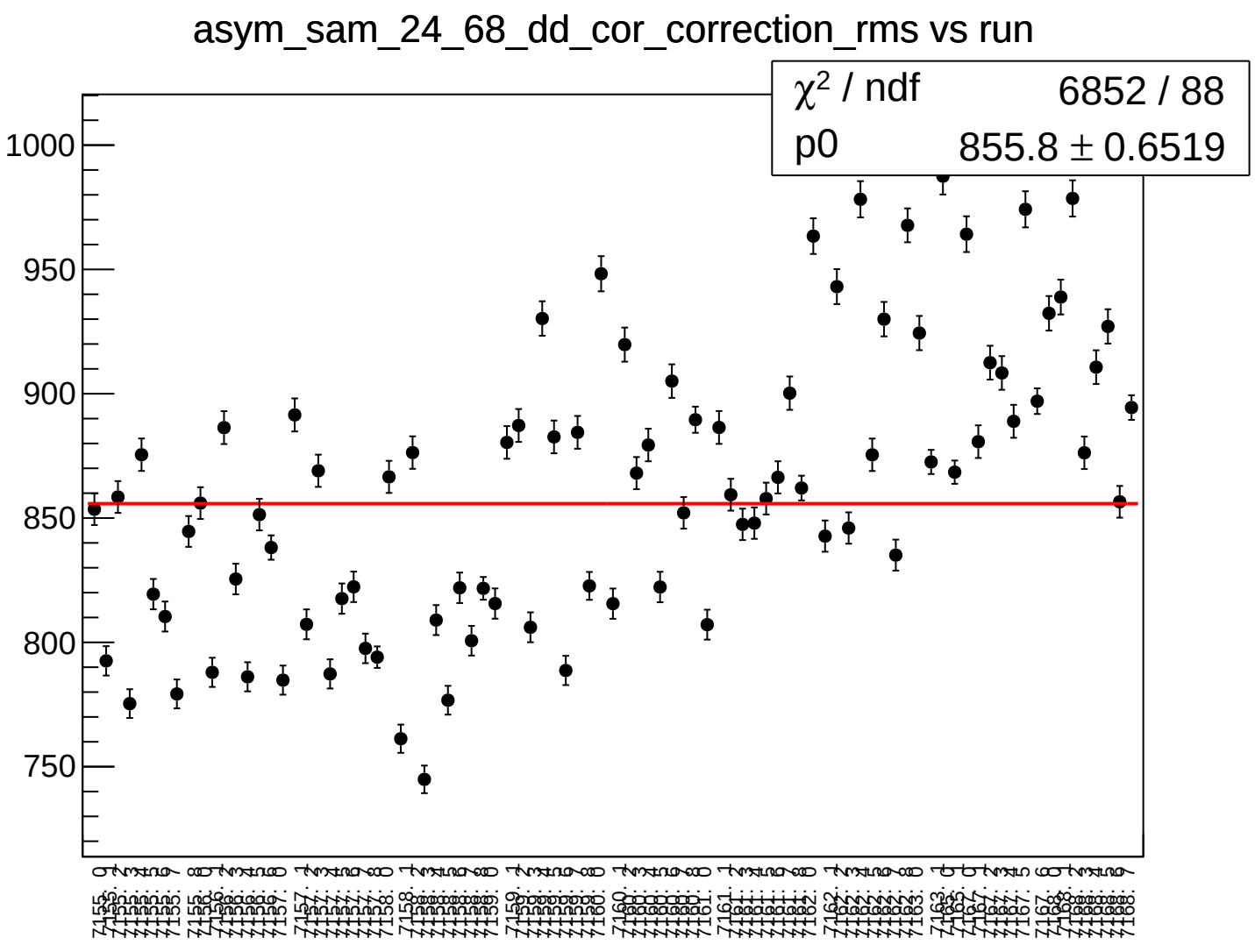

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 6852 / 88
p0 855.8 ± 0.6519
1000
950
900
850
800
750

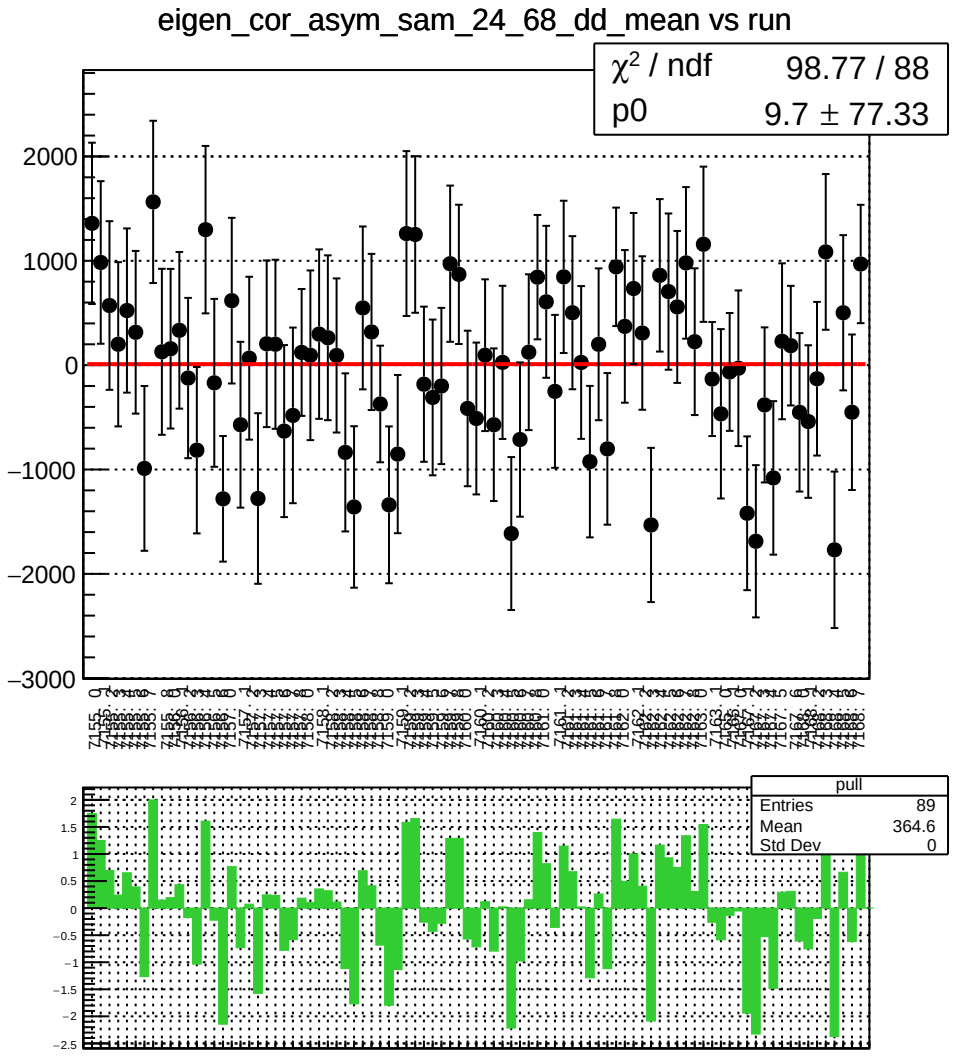

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 98.77 / 88
p0 9.7 ± 77.33
pull
Entries 89
Mean 364.6
Std Dev 0

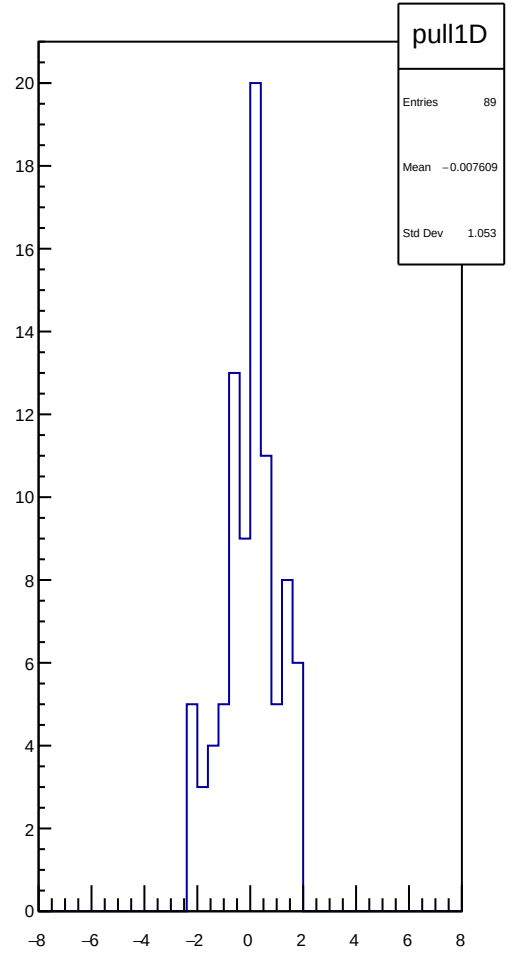

pull1D
Entries 89
Mean −0.007609
Std Dev 1.053

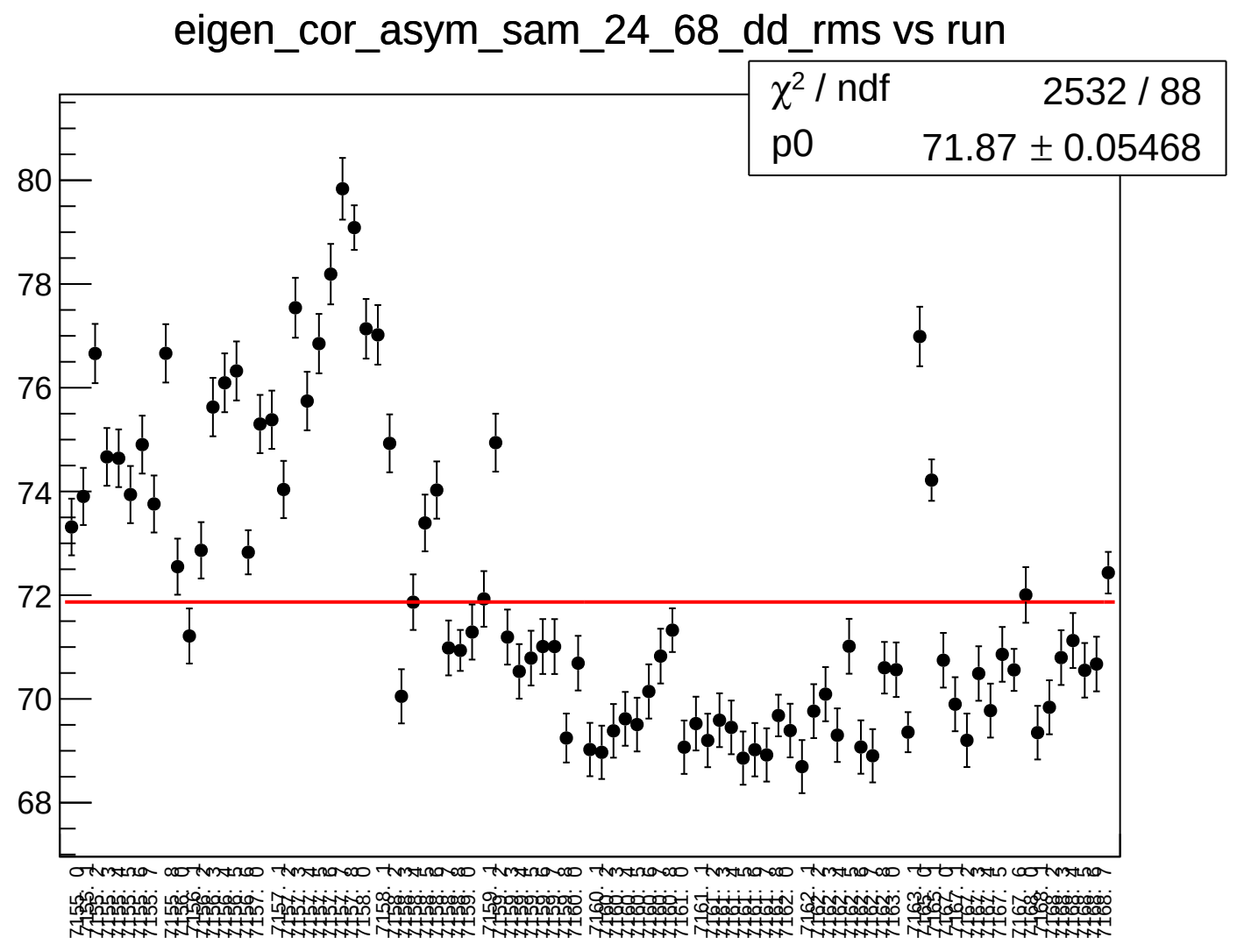

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2532 / 88
p0 71.87 ± 0.05468
80
78
76
74
72
70
68

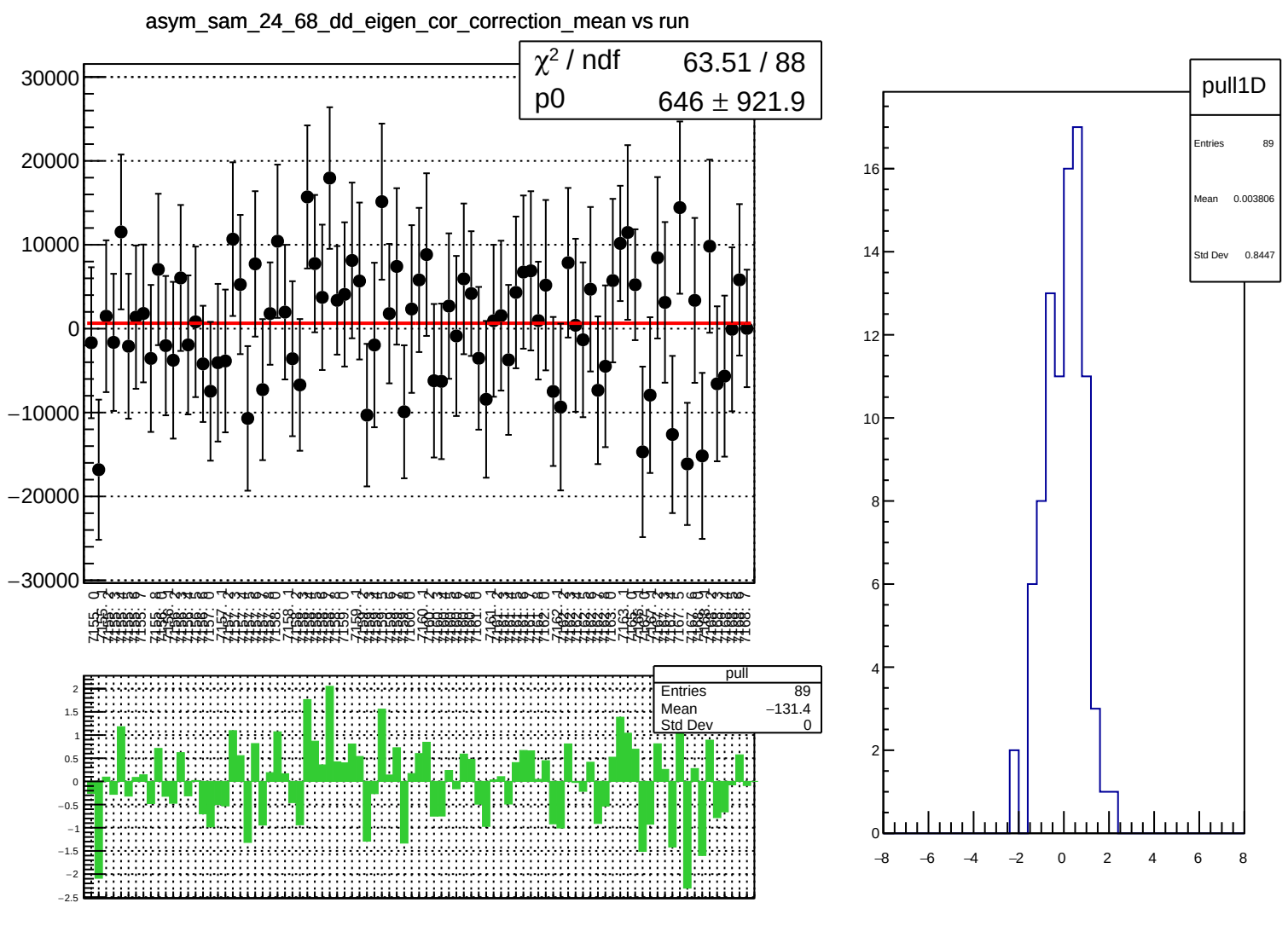

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 63.51 / 88
p0 646 ± 921.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −131.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.003806
Std Dev 0.8447
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

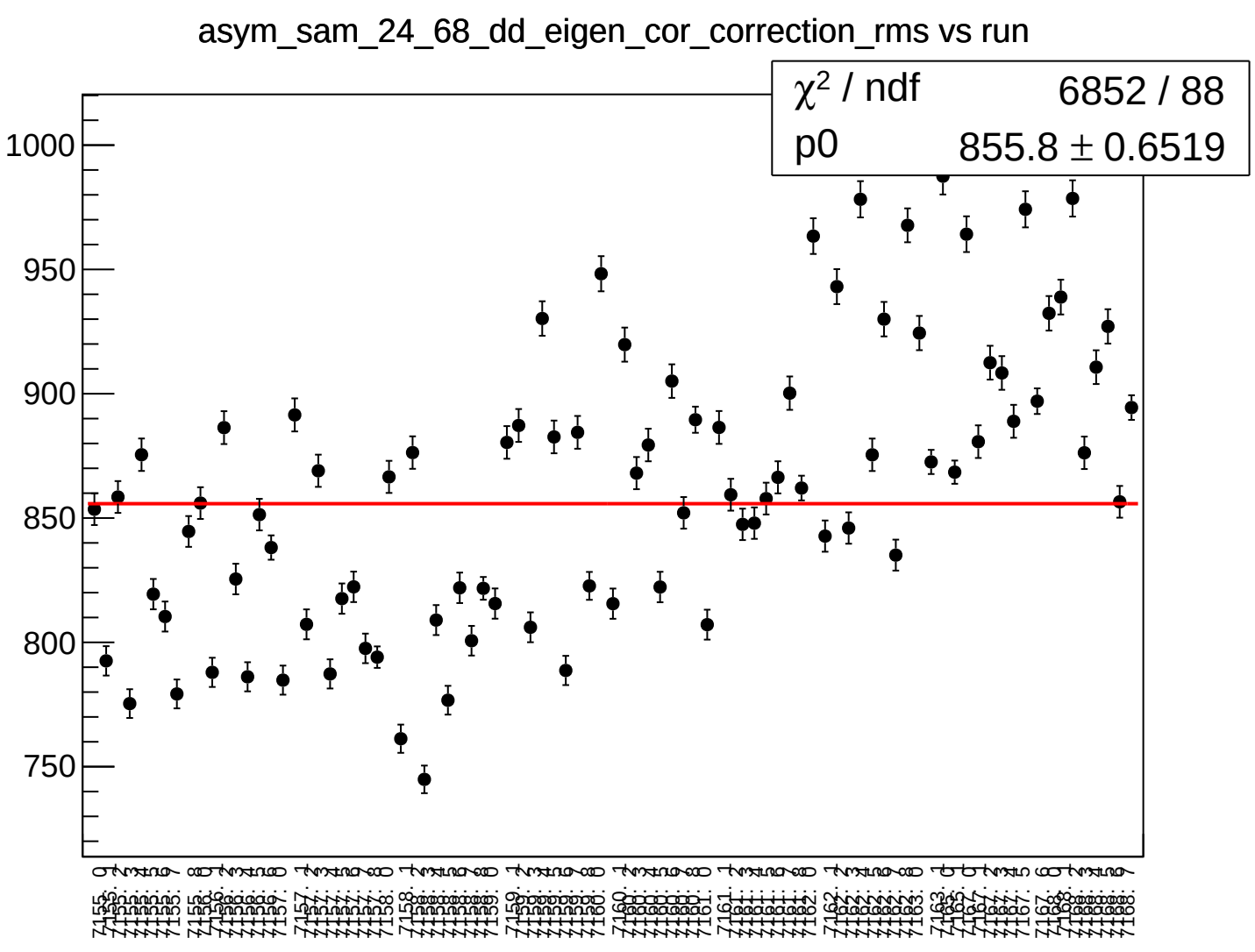

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 6852 / 88
p0 855.8 ± 0.6519
1000
950
900
850
800
750

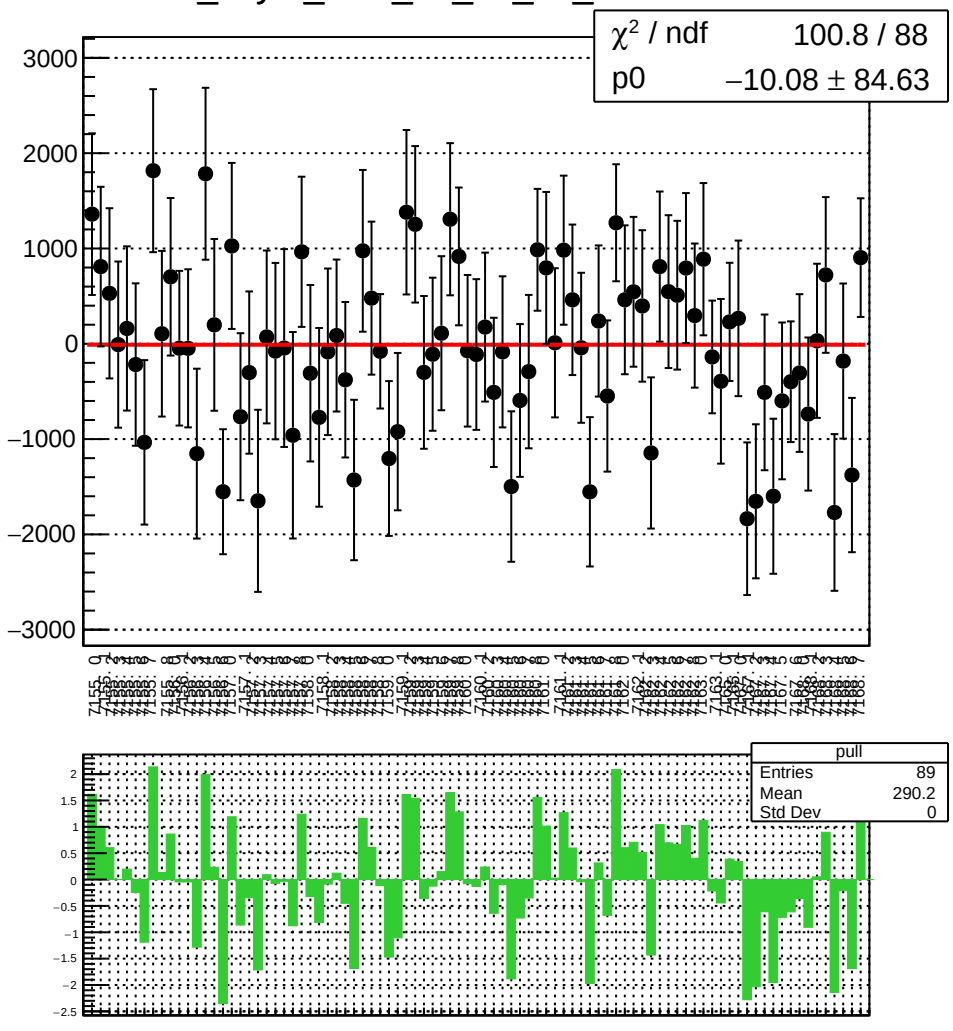

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 98.77 / 88
p0 9.7 ± 77.33
pull
Entries 89
Mean 364.6
Std Dev 0

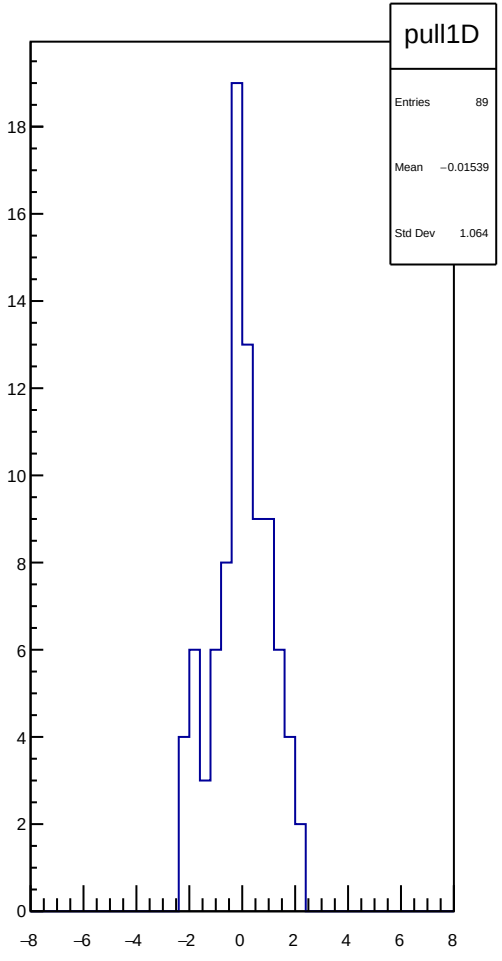

pull1D
Entries 89
Mean −0.007609
Std Dev 1.053

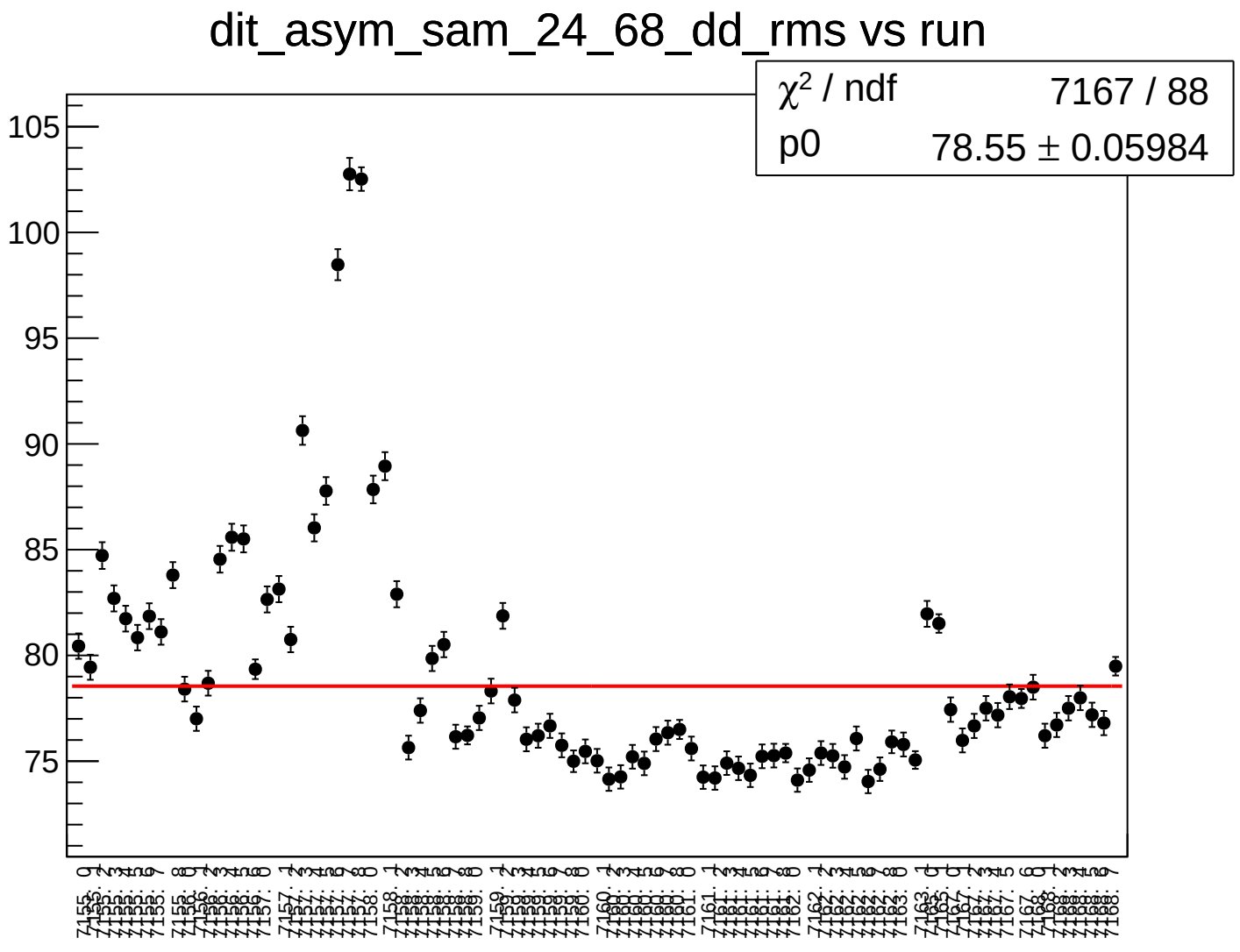

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 2532 / 88
p0 71.87 ± 0.05468
80
78
76
74
72
70
68

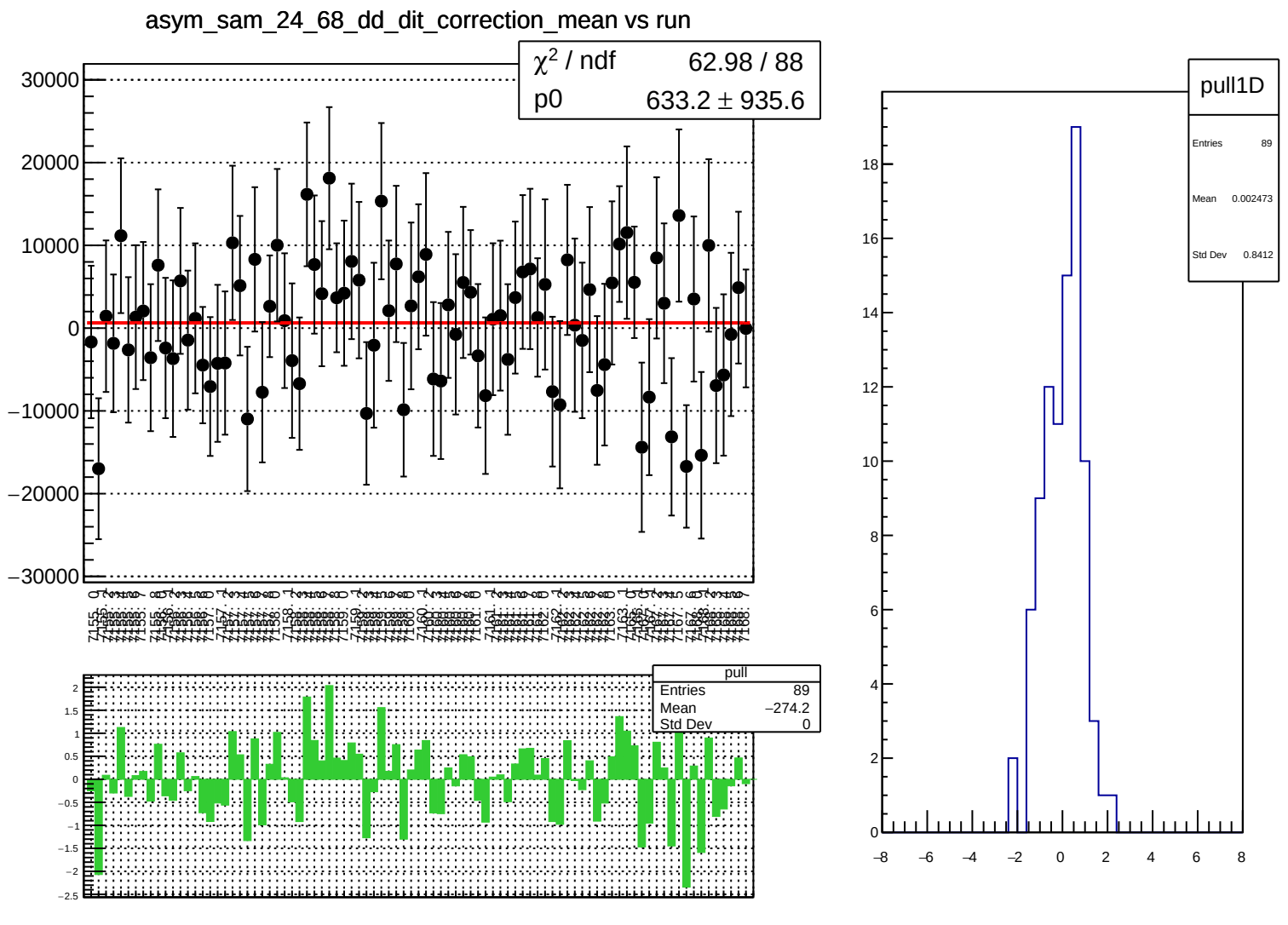

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.51 / 88
p0 646 ± 921.9
pull
Entries 89
Mean −131.4
Std Dev 0
pull1D
Entries 89
Mean 0.003806
Std Dev 0.8447

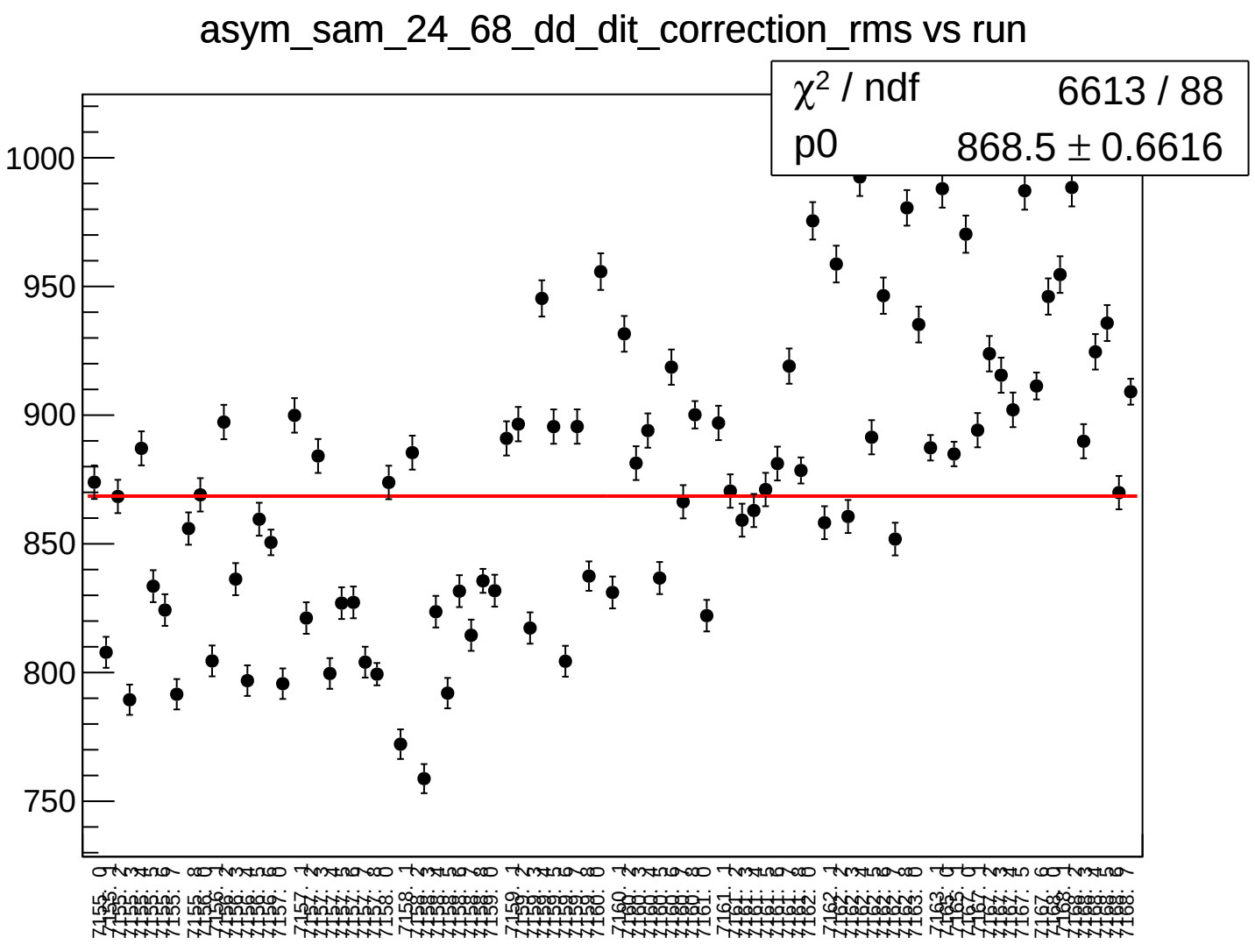

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 6852 / 88
p0 855.8 ± 0.6519
1000
950
900
850
800
750

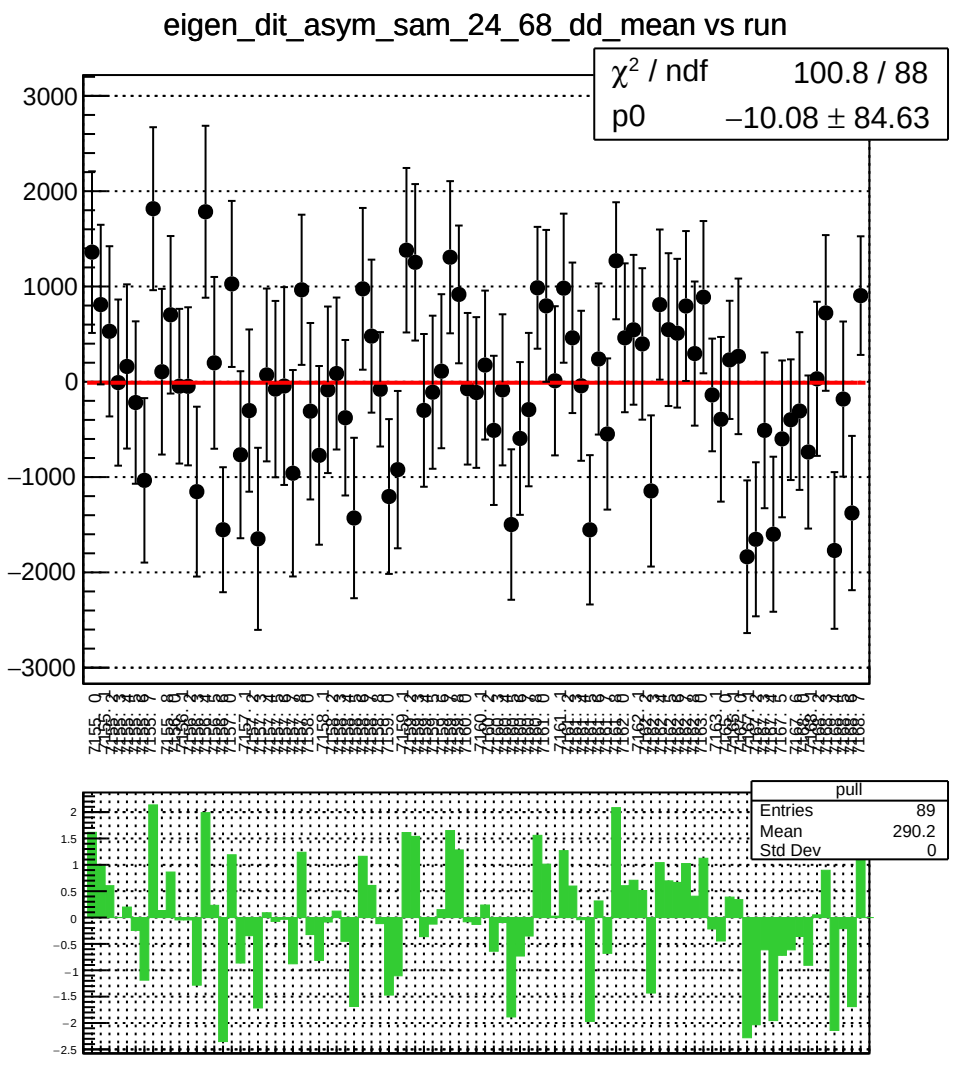

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 100.8 / 88
p0 −10.08 ± 84.63
pull
Entries 89
Mean 290.2
Std Dev 0

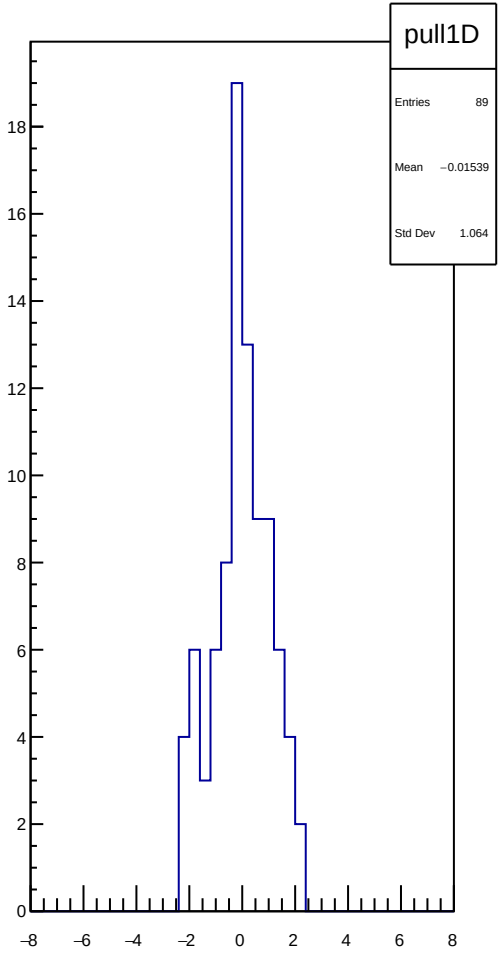

pull1D
Entries 89
Mean −0.01539
Std Dev 1.064

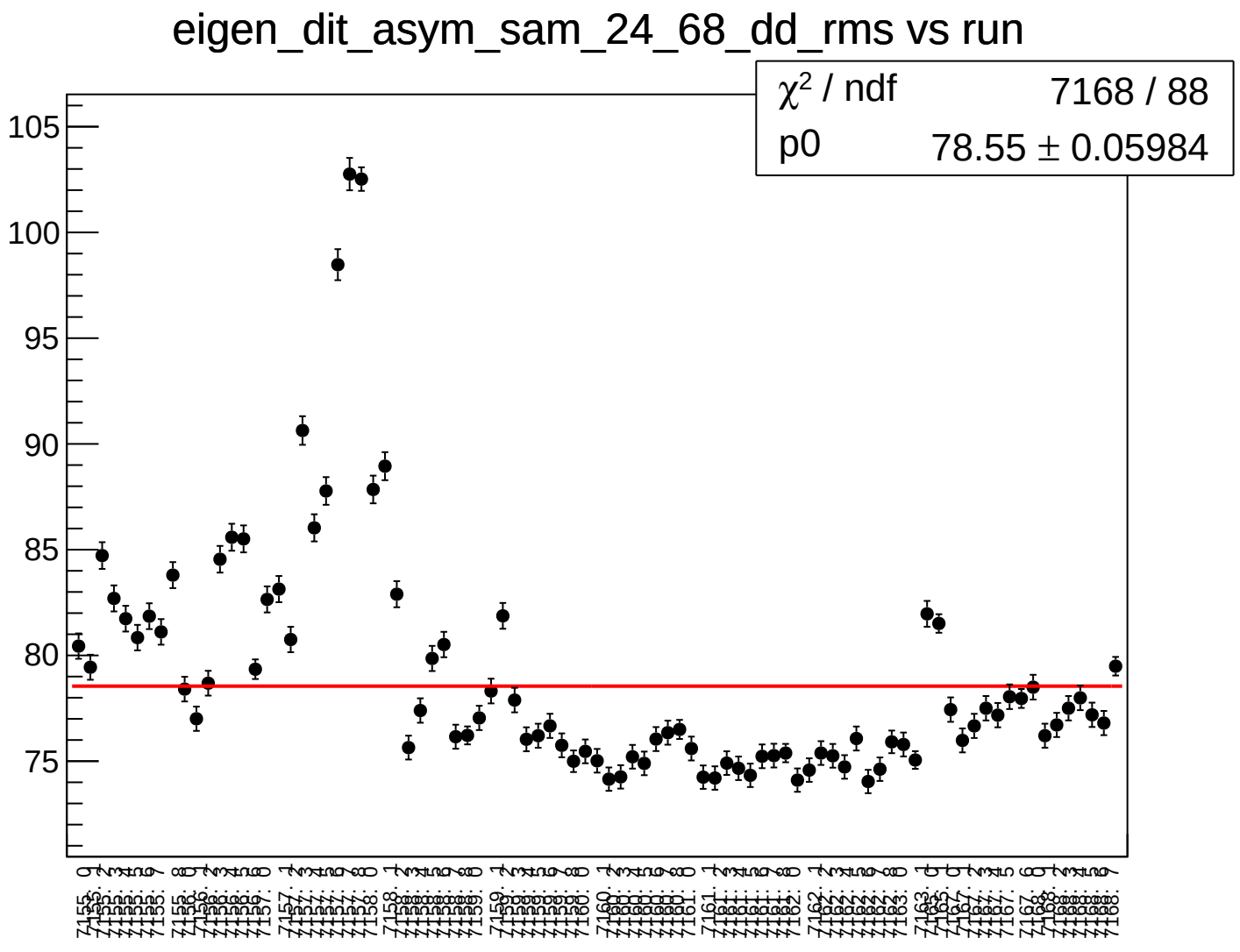

dit_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 7167 / 88
p0 78.55 ± 0.05984
105
100
95
90
85
80
75

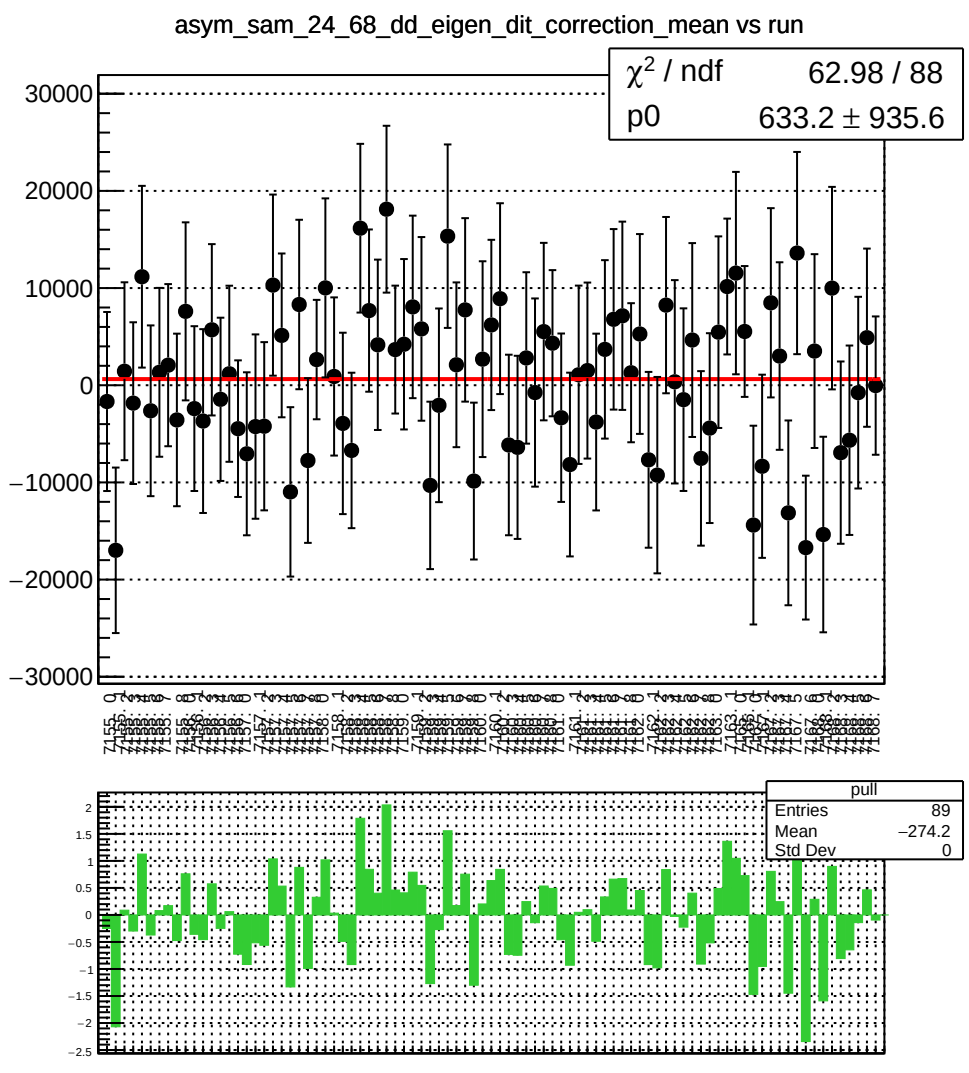

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 62.98 / 88
p0 633.2 ± 935.6
pull
Entries 89
Mean −274.2
Std Dev 0
pull1D
Entries 89
Mean 0.002473
Std Dev 0.8412

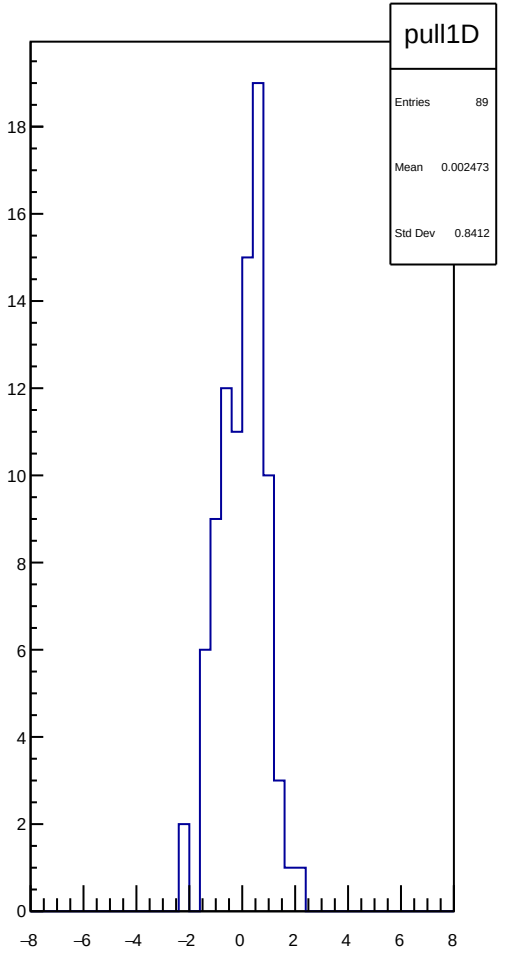

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 6613 / 88
p0 868.5 ± 0.6616
1000
950
900
850
800
750

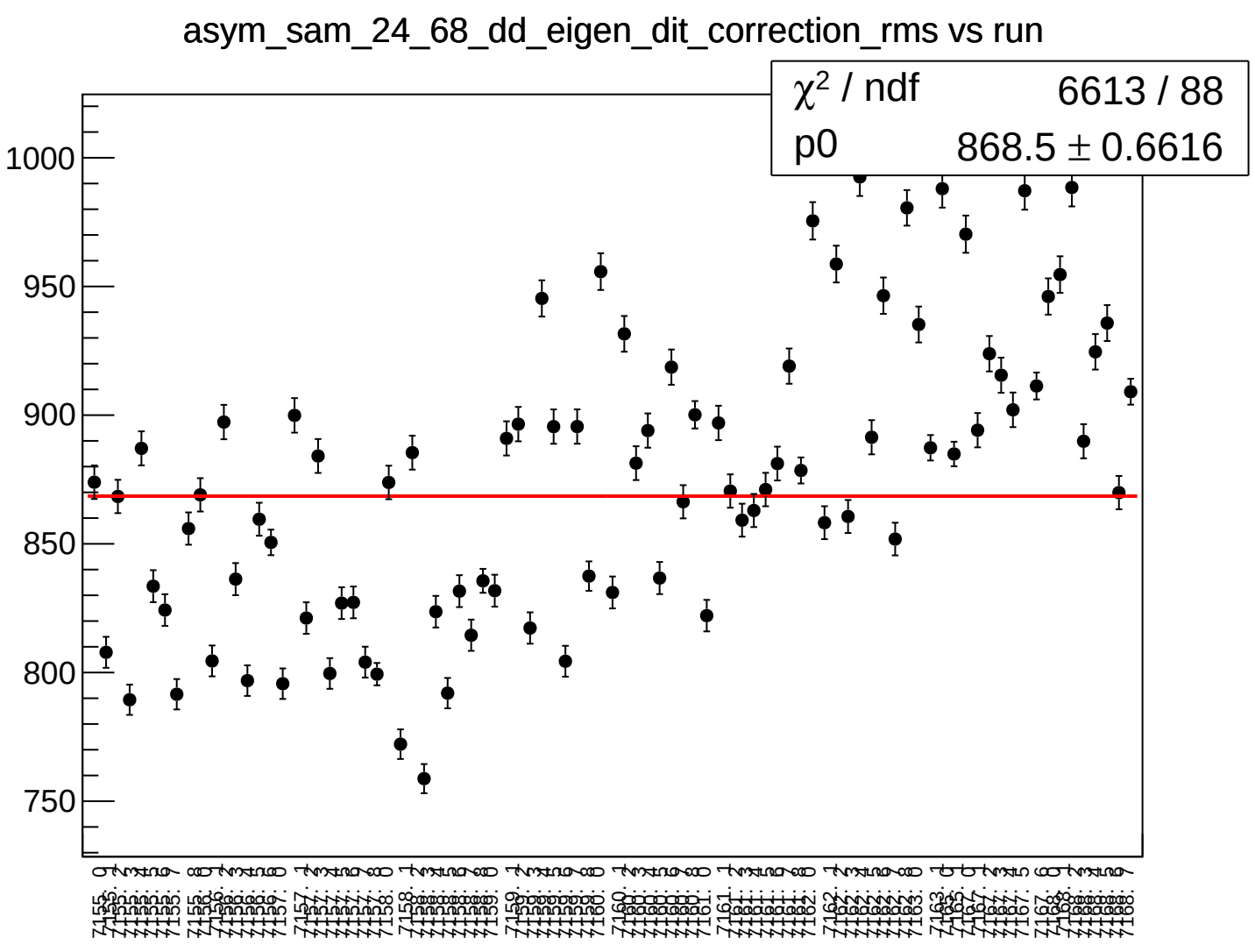

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 100.8 / 88
p0 −10.08 ± 84.63
pull
Entries 89
Mean 290.2
Std Dev 0

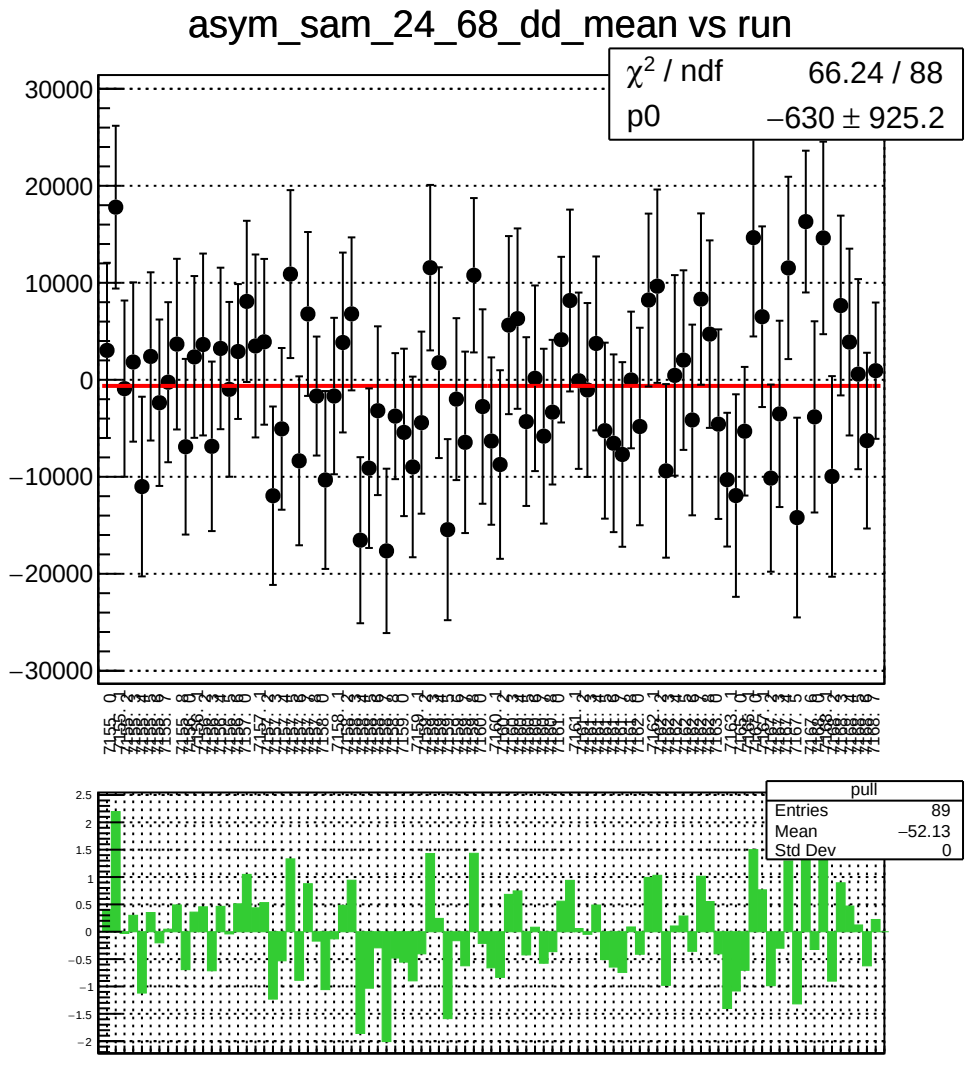

pull1D
Entries 89
Mean −0.01539
Std Dev 1.064

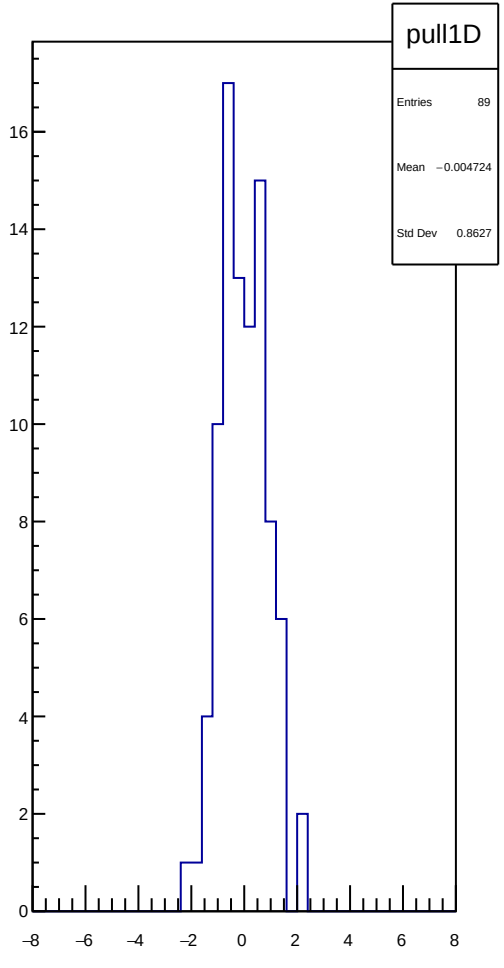

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 7168 / 88
p0 78.55 ± 0.05984
105
100
95
90
85
80
75

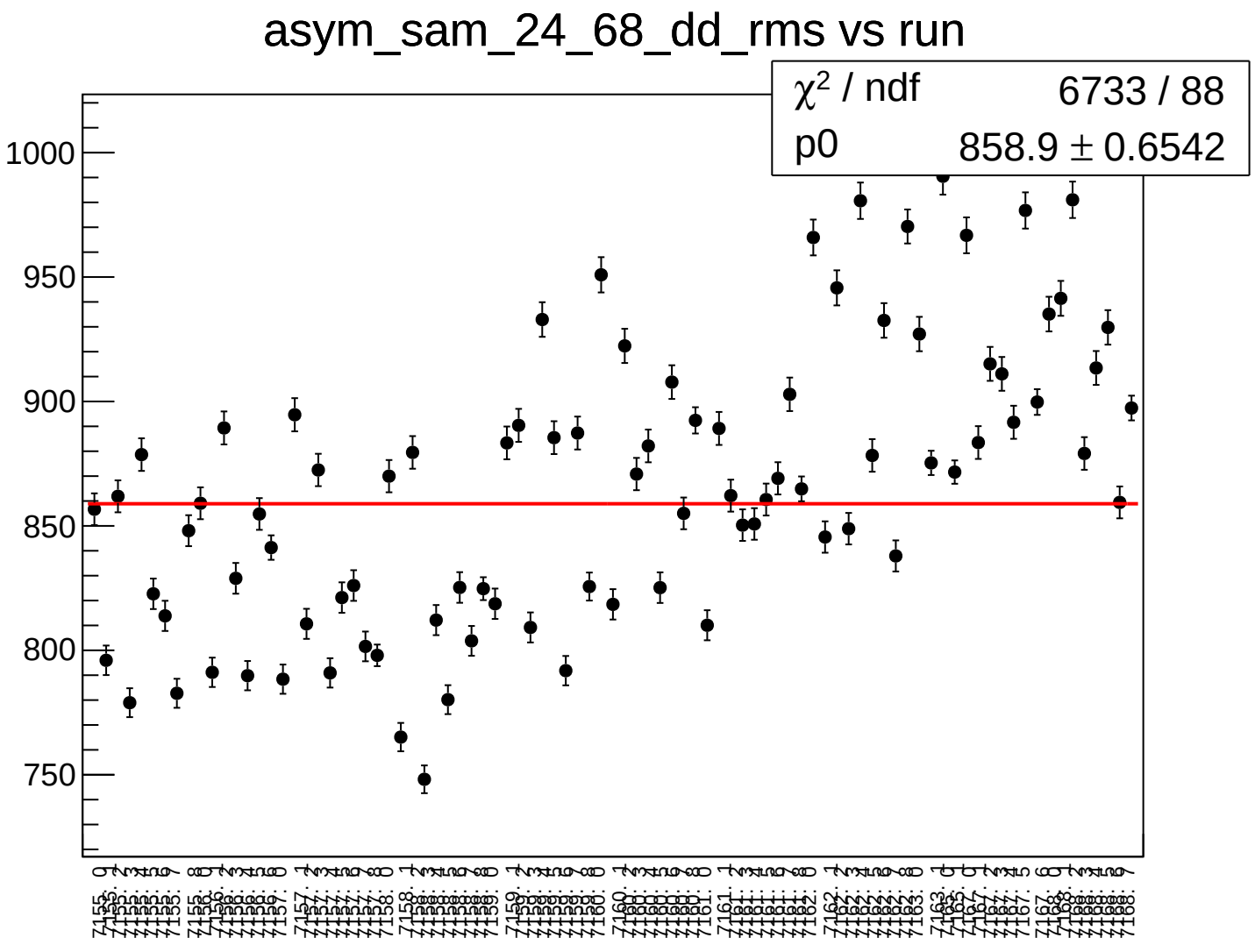

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.98 / 88
p0 633.2 ± 935.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −274.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

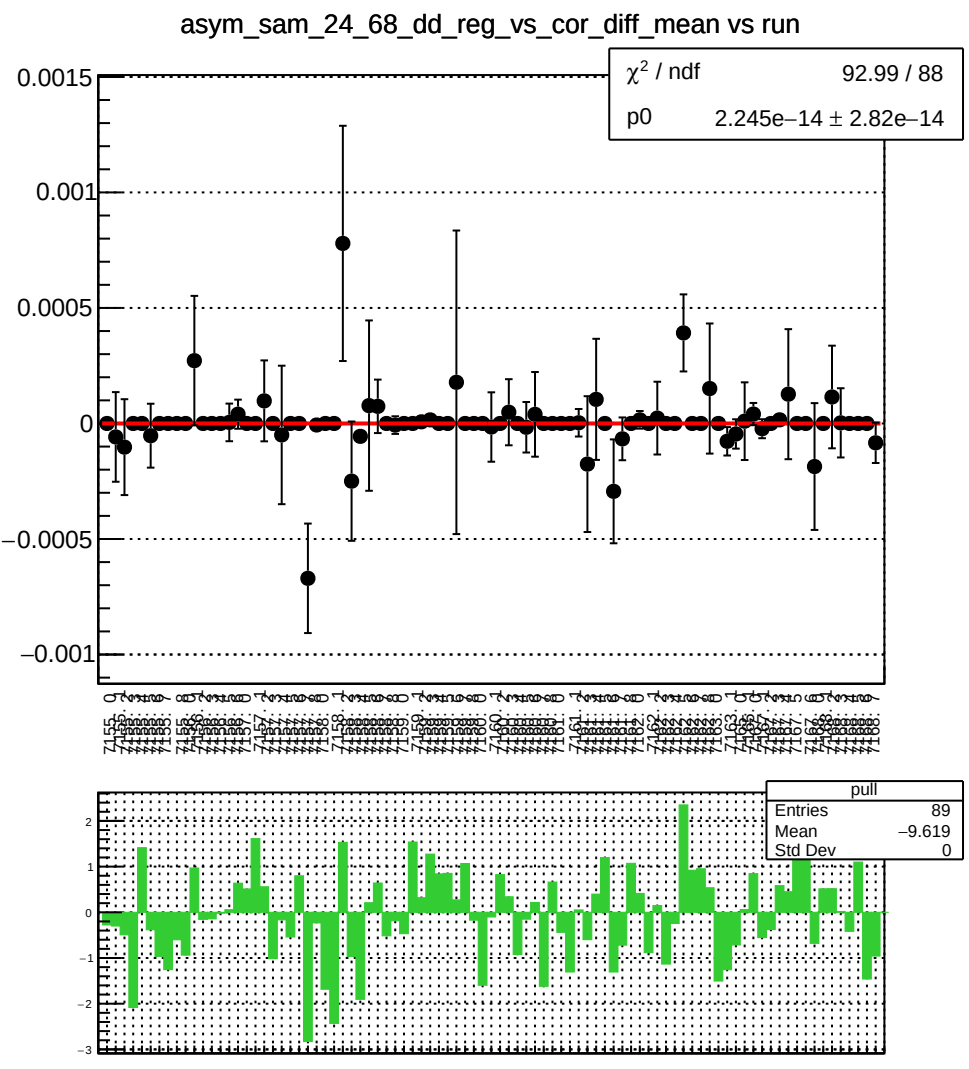

pull1D
Entries 89
Mean 0.002473
Std Dev 0.8412
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

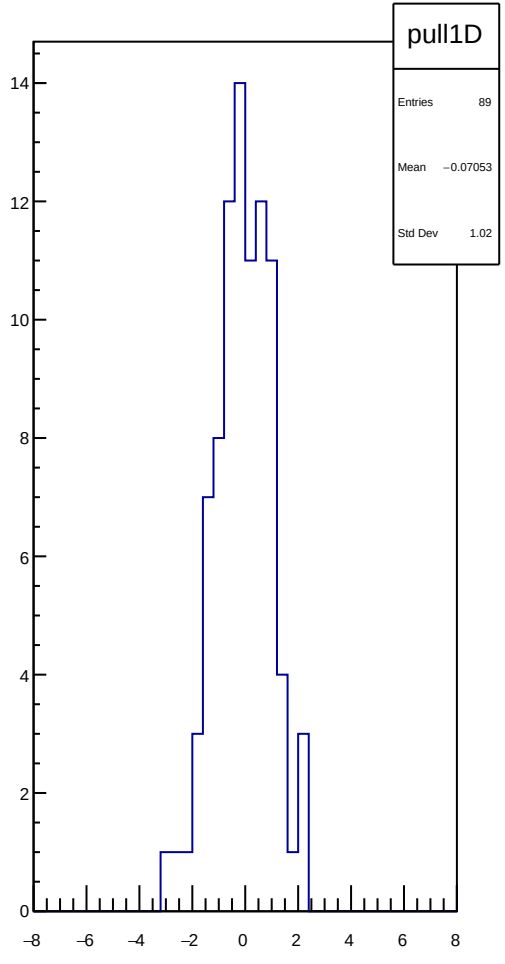

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 6613 / 88
p0 868.5 ± 0.6616
1000
950
900
850
800
750

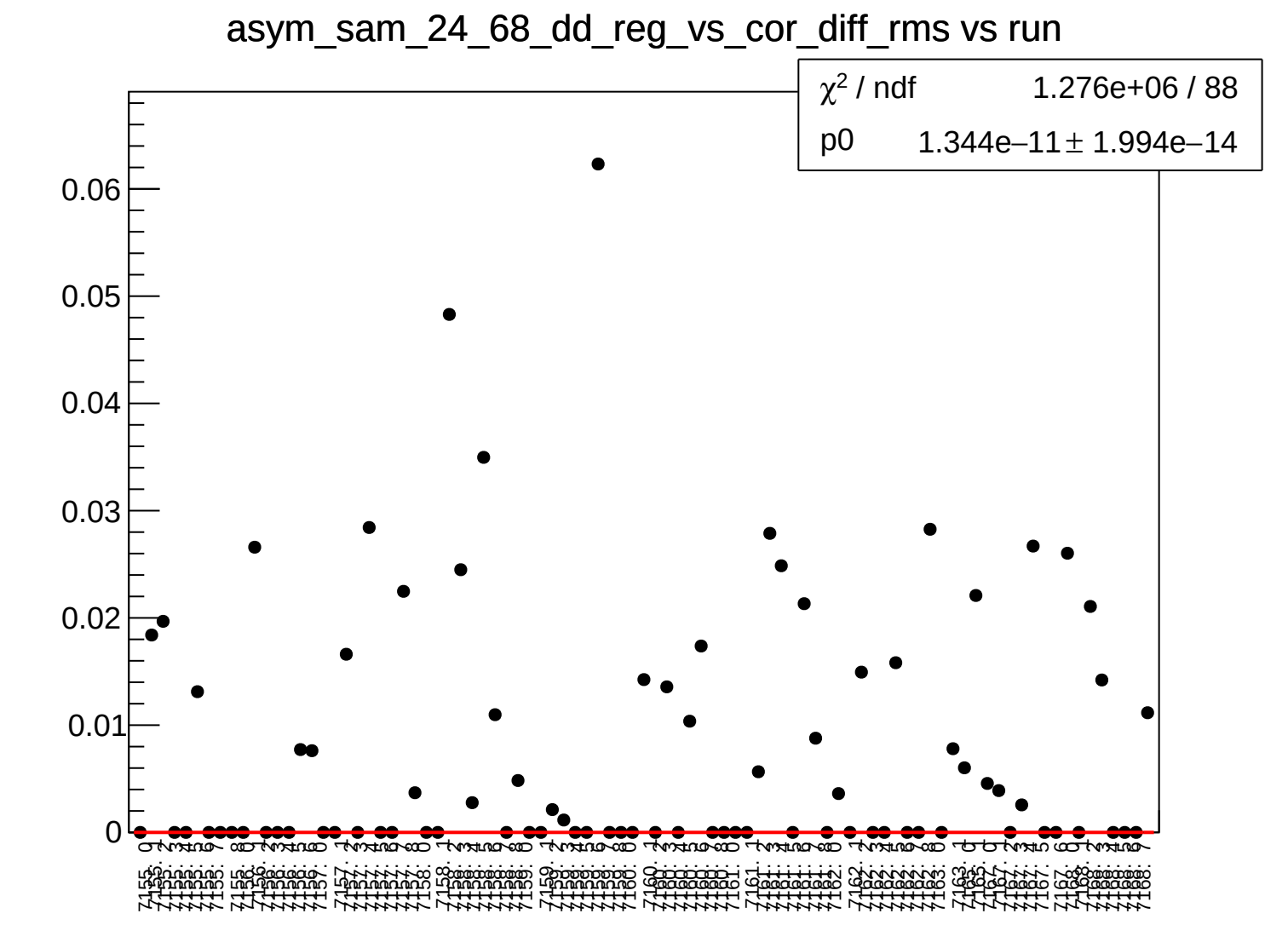

asym_sam_24_68_dd_mean vs run
χ² / ndf 66.24 / 88
p0 −630 ± 925.2
pull
Entries 89
Mean −52.13
Std Dev 0

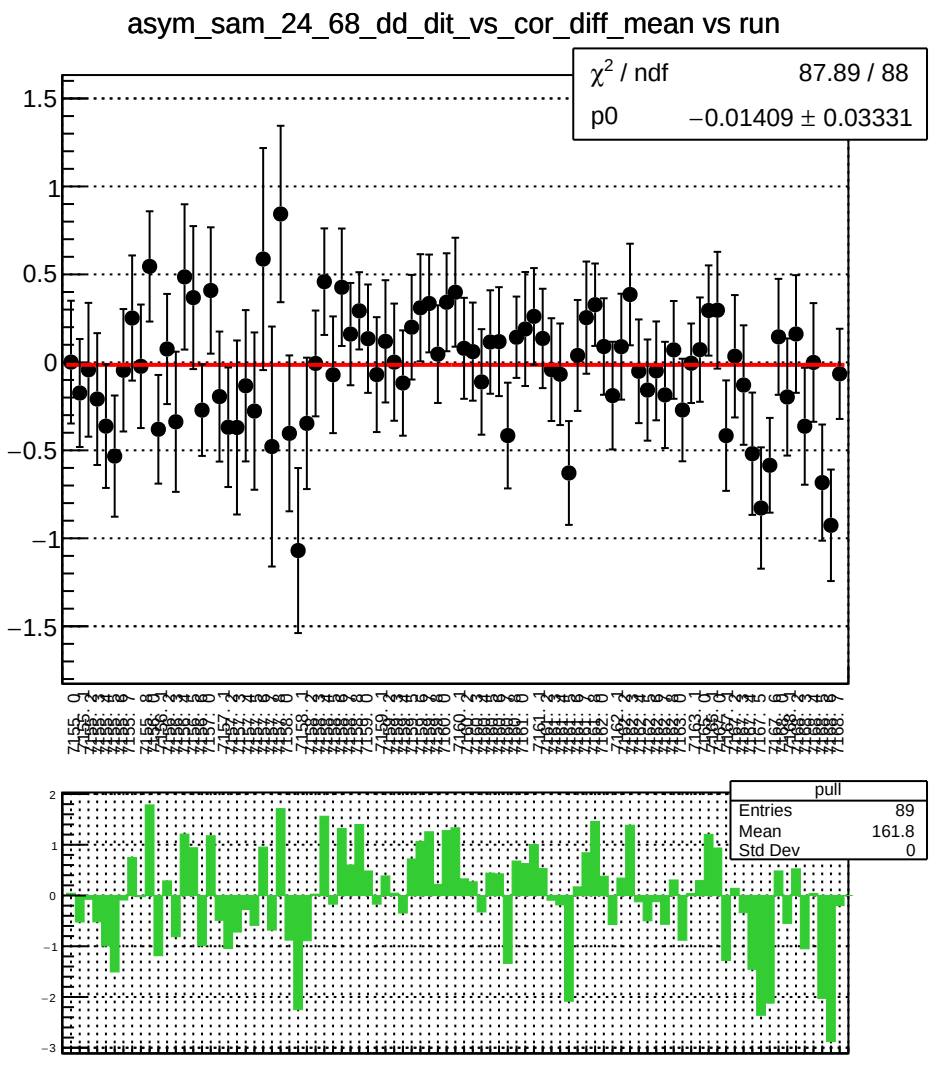

pull1D
Entries 89
Mean −0.004724
Std Dev 0.8627

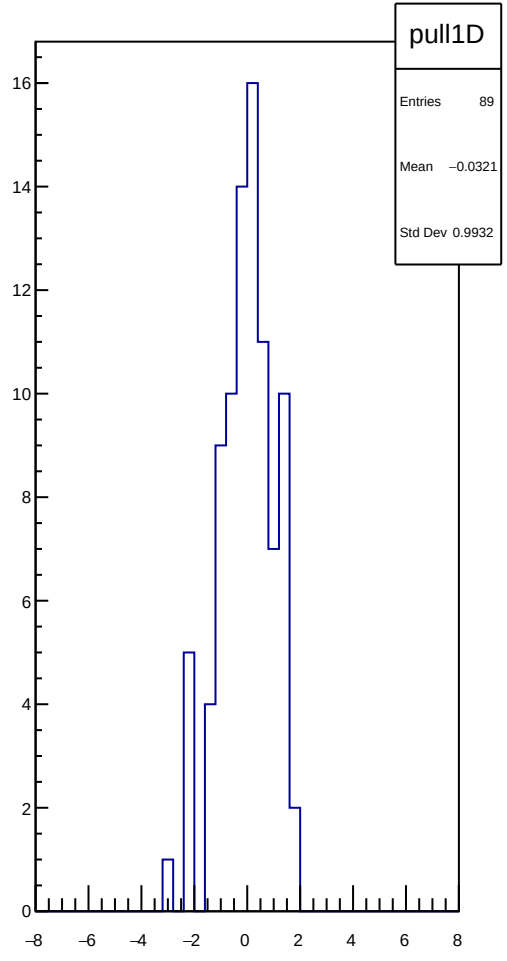

asym_sam_24_68_dd_rms vs run
χ² / ndf 6733 / 88
p0 858.9 ± 0.6542
1000
950
900
850
800
750

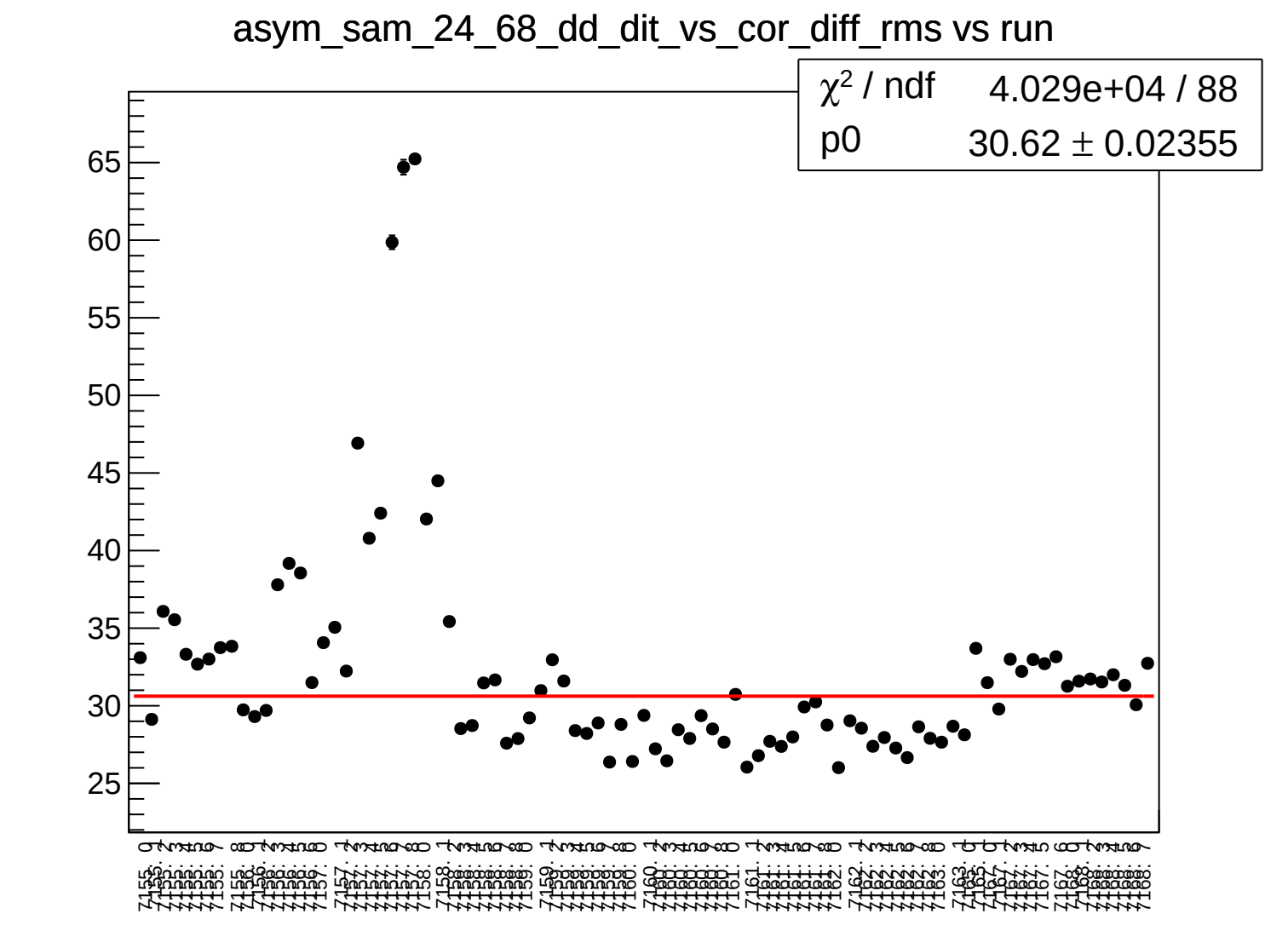

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 92.99 / 88
p0 2.245e−14 ± 2.82e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −9.619
Std Dev 0
2
1
0
−1
−2
−3

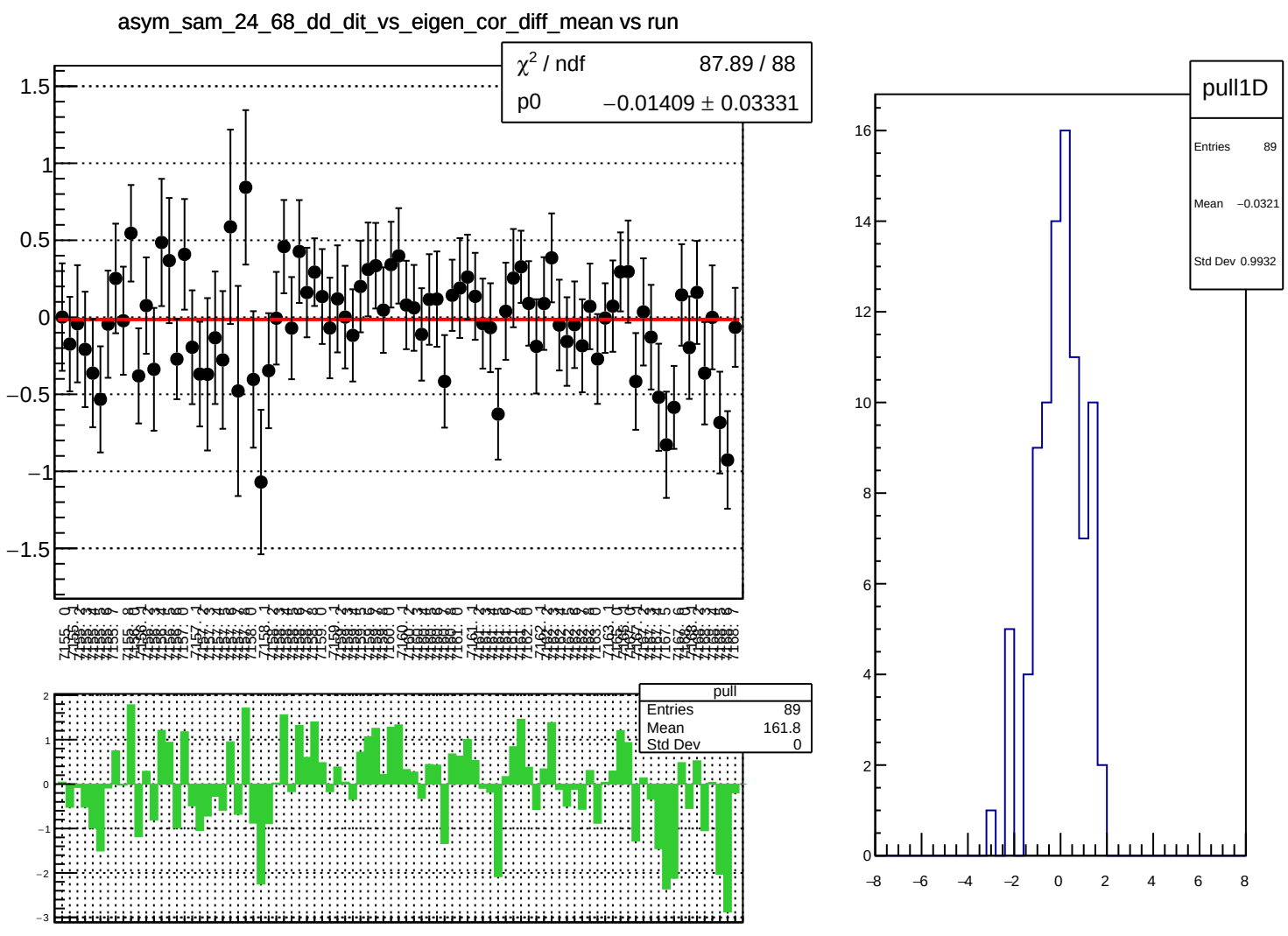

pull1D
Entries 89
Mean −0.07053
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

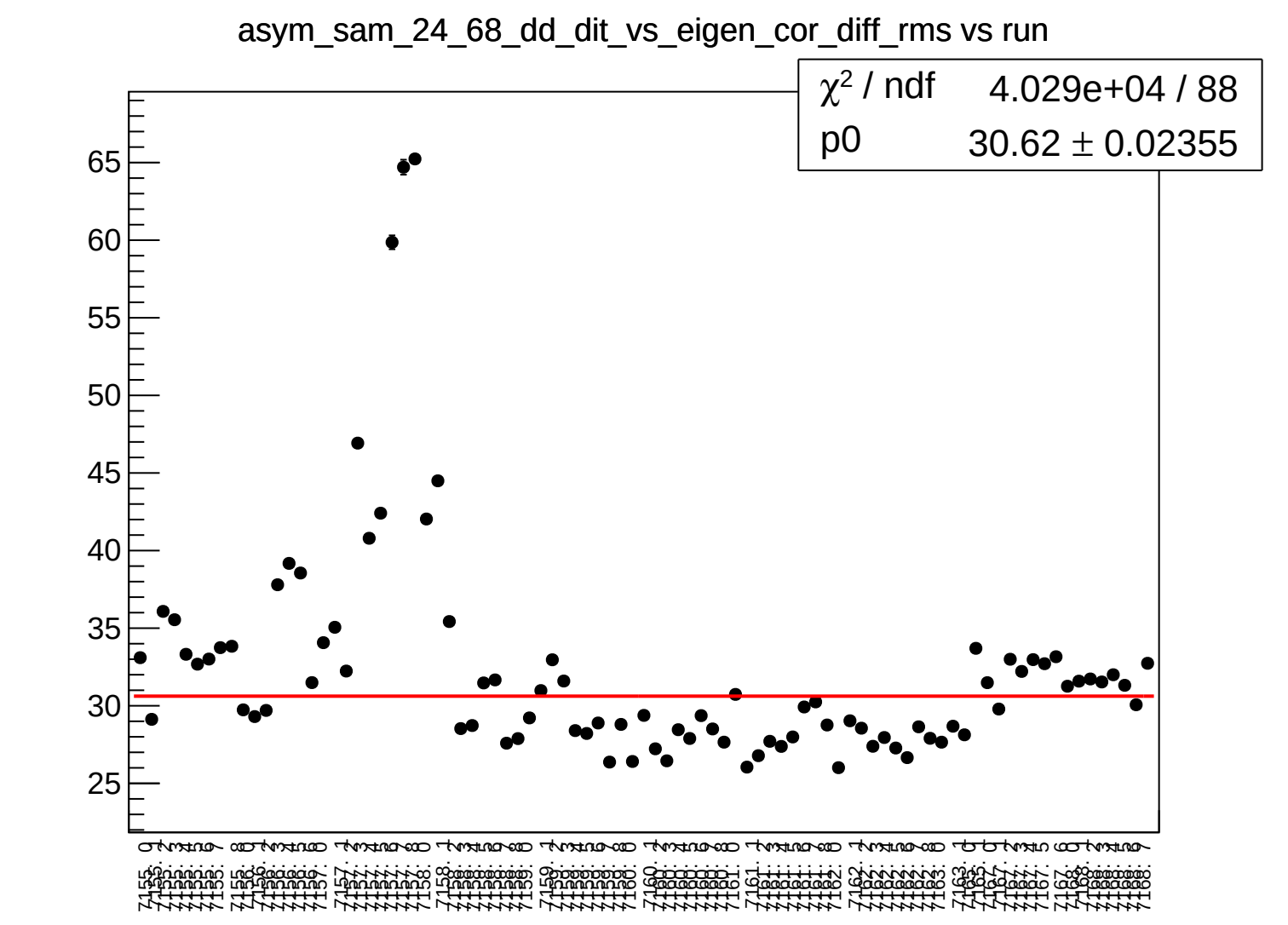

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.276e+06 / 88
p0 1.344e−11 ± 1.994e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

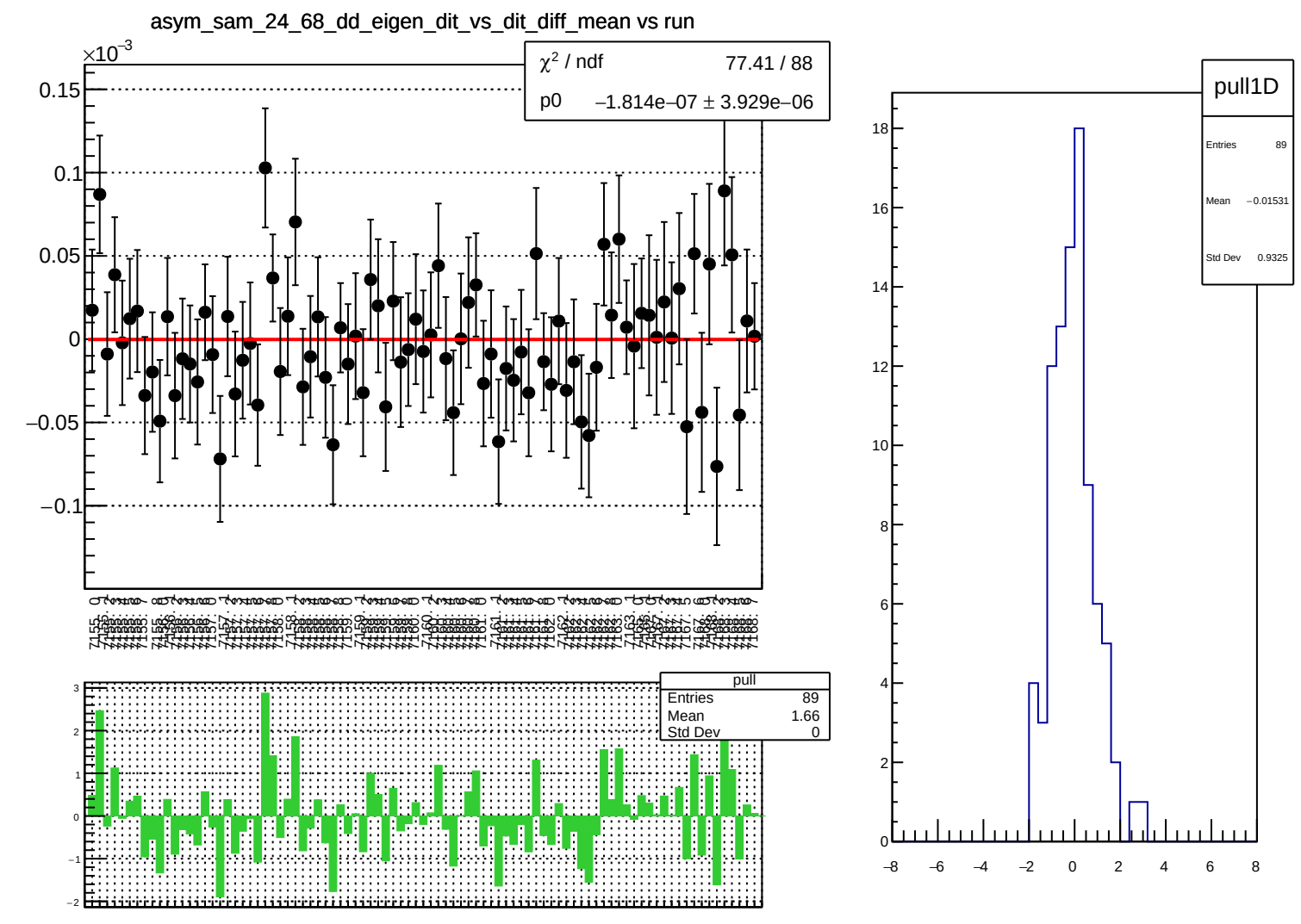

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 87.89 / 88
p0 −0.01409 ± 0.03331
pull
Entries 89
Mean 161.8
Std Dev 0

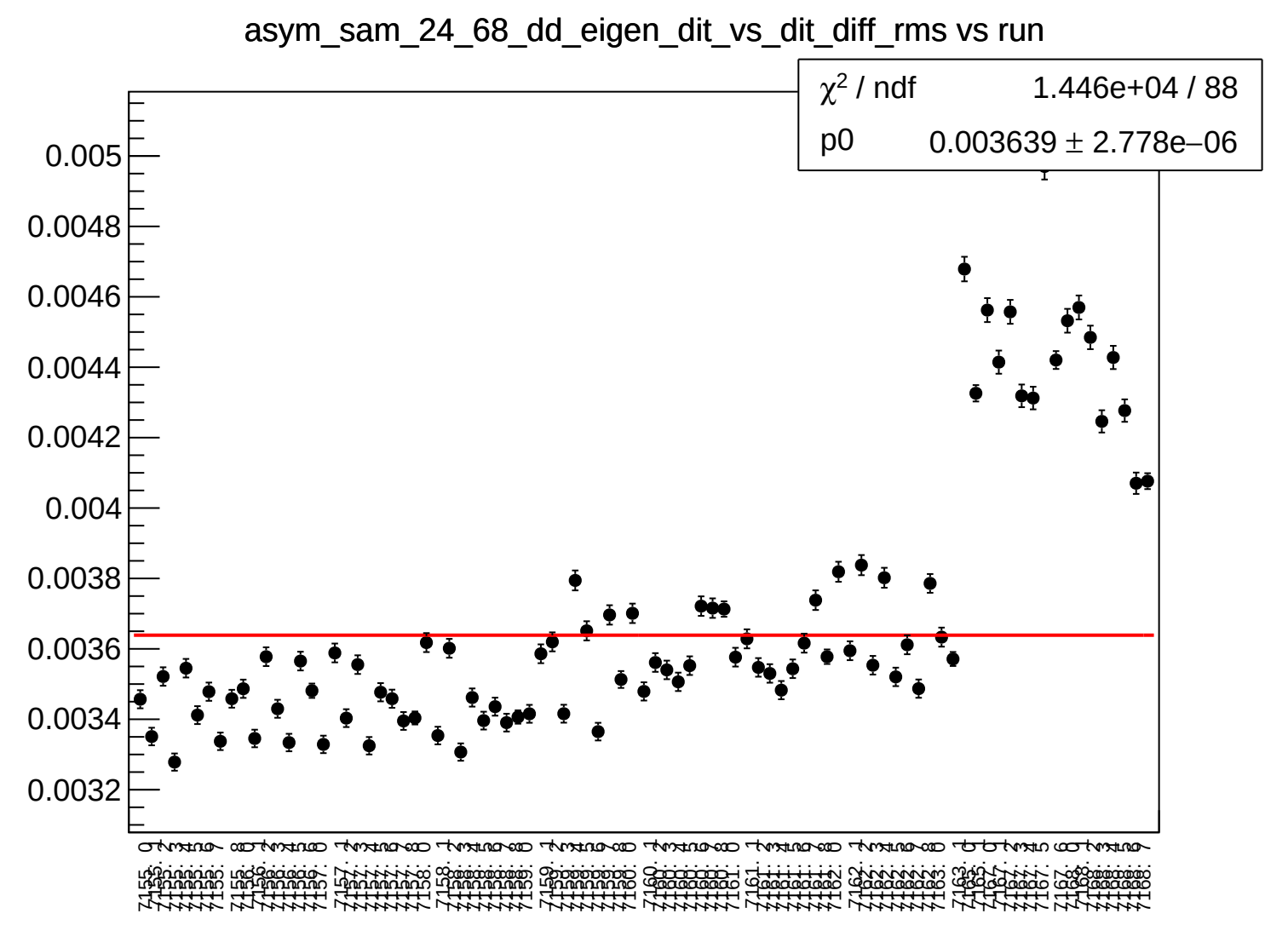

pull1D
Entries 89
Mean −0.0321
Std Dev 0.9932

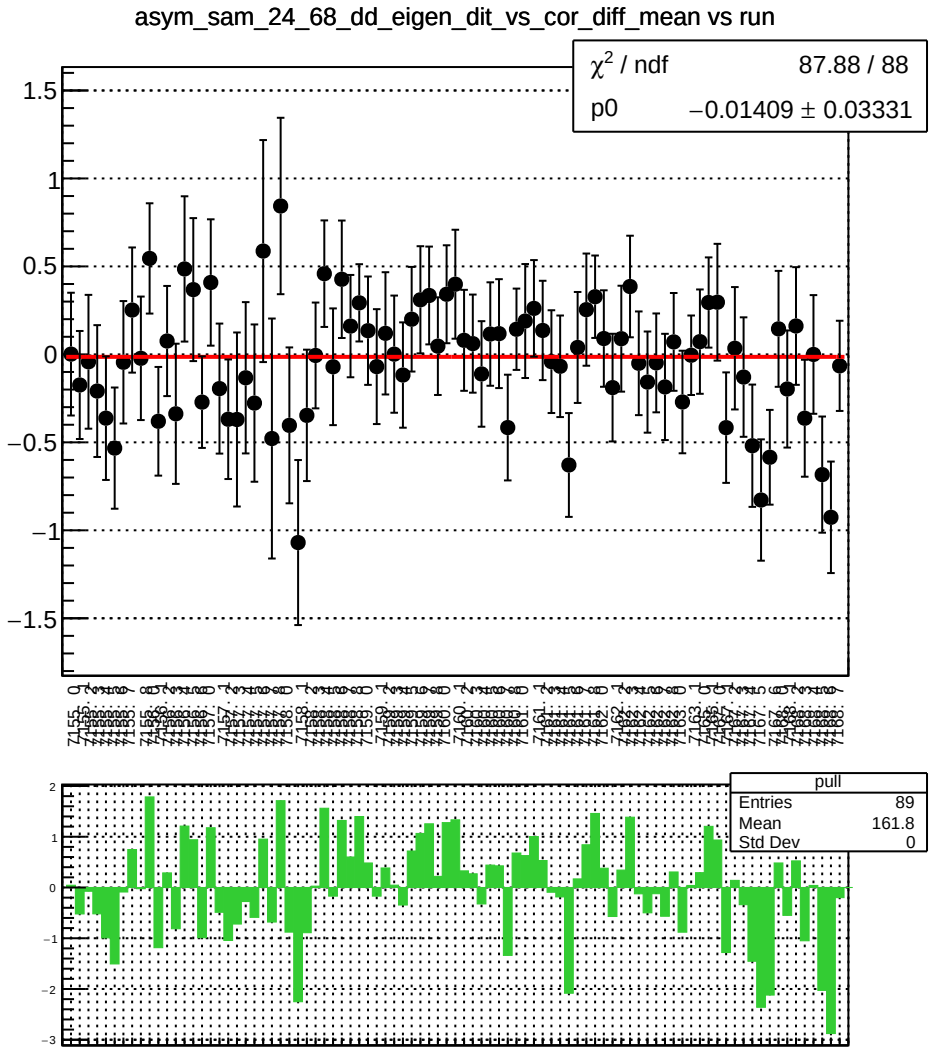

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 88
p0 30.62 ± 0.02355
65
60
55
50
45
40
35
30
25

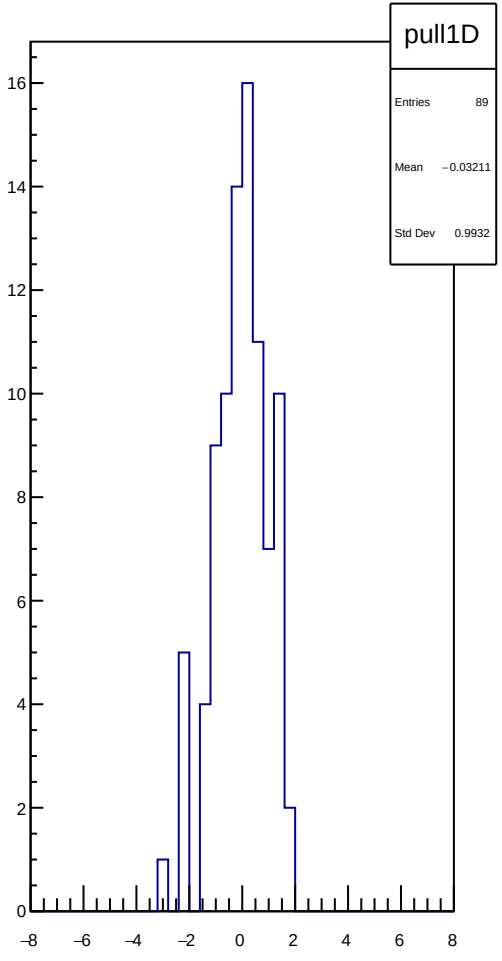

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.89 / 88
p0 −0.01409 ± 0.03331
pull
Entries 89
Mean 161.8
Std Dev 0
pull1D
Entries 89
Mean −0.0321
Std Dev 0.9932

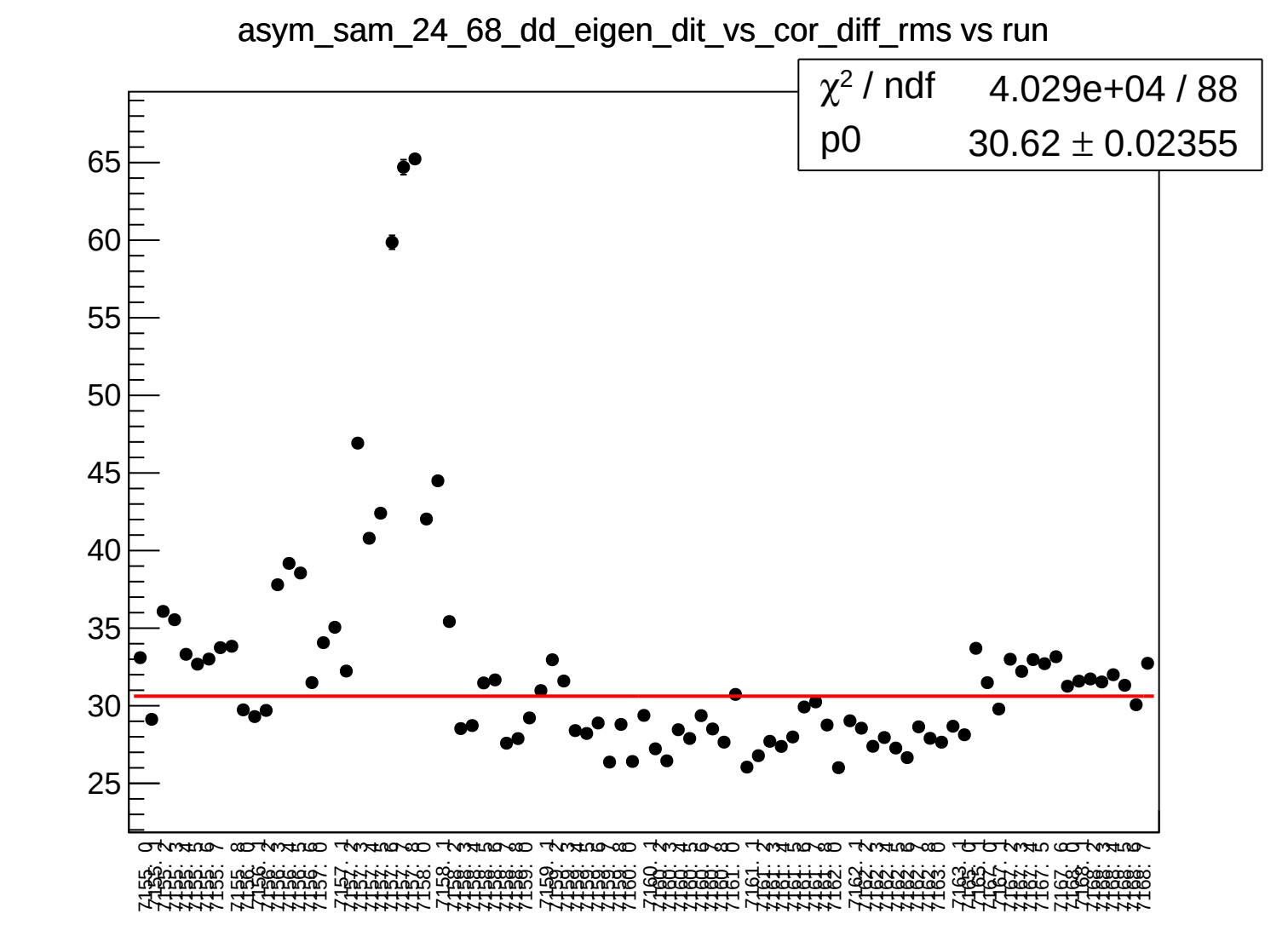

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.029e+04 / 88
p0 30.62 ± 0.02355
65
60
55
50
45
40
35
30
25

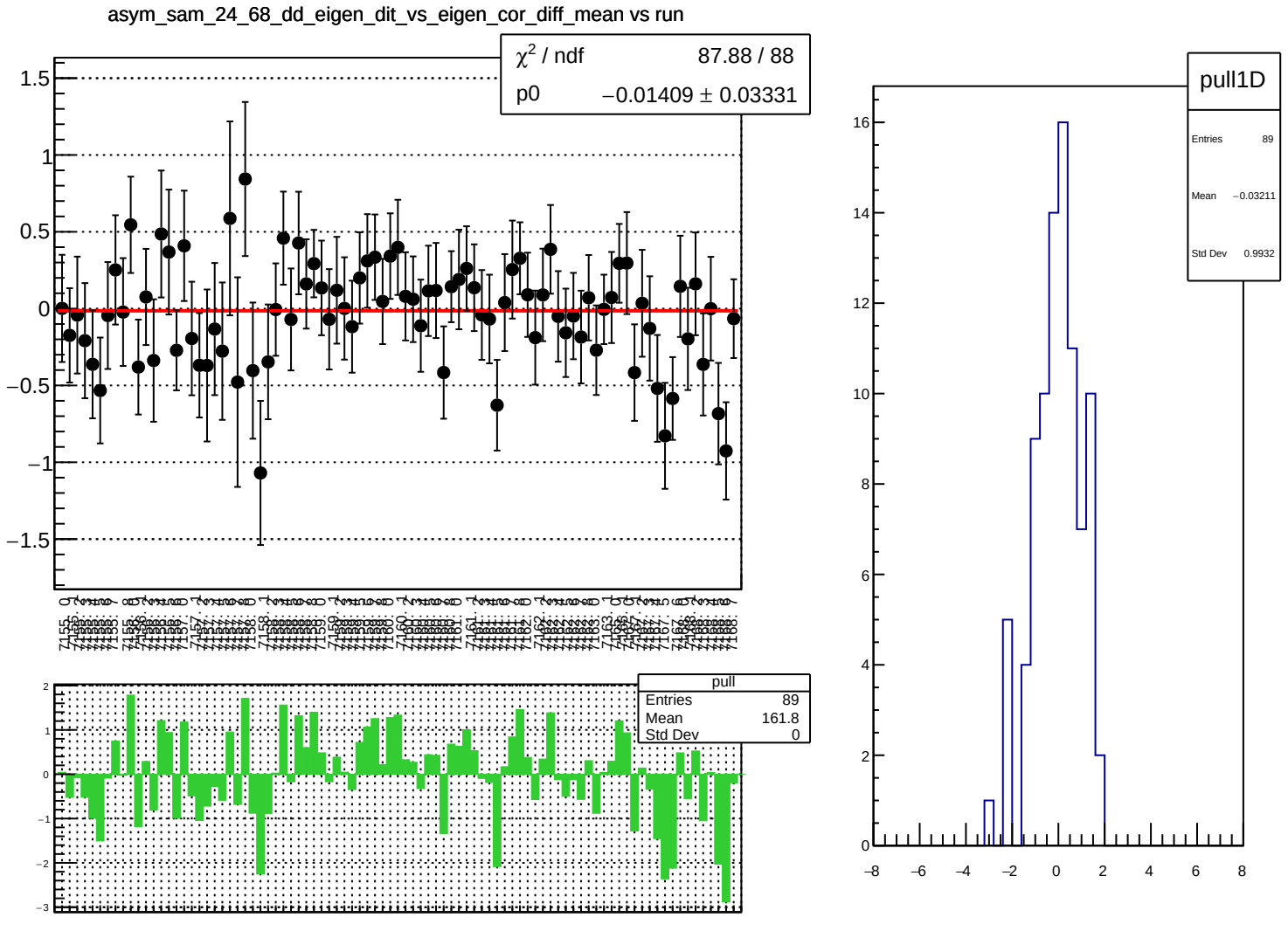

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.41 / 88
p0 −1.814e−07 ± 3.929e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 1.66
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01531
Std Dev 0.9325
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

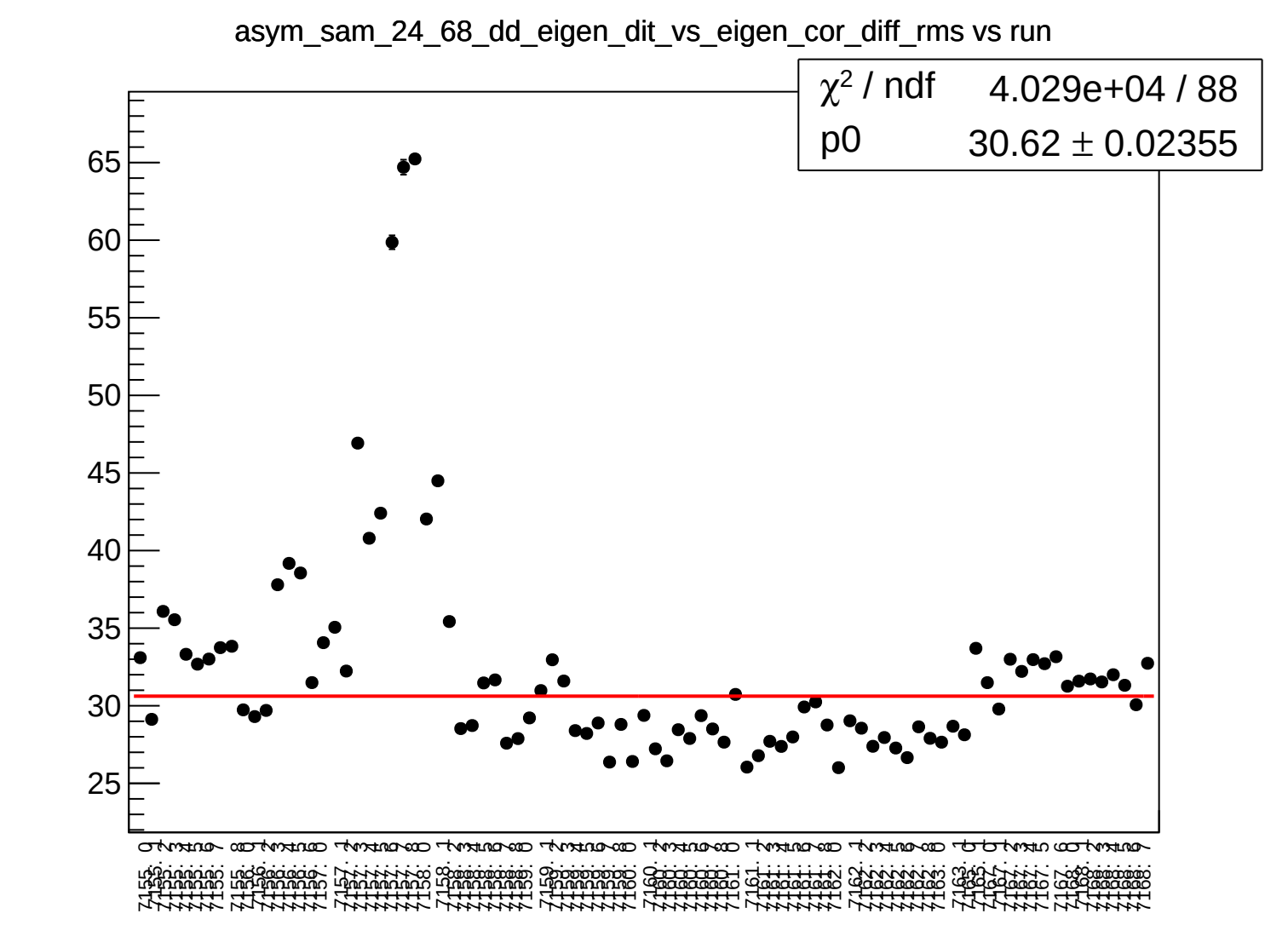

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.446e+04 / 88
p0 0.003639 ± 2.778e−06
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

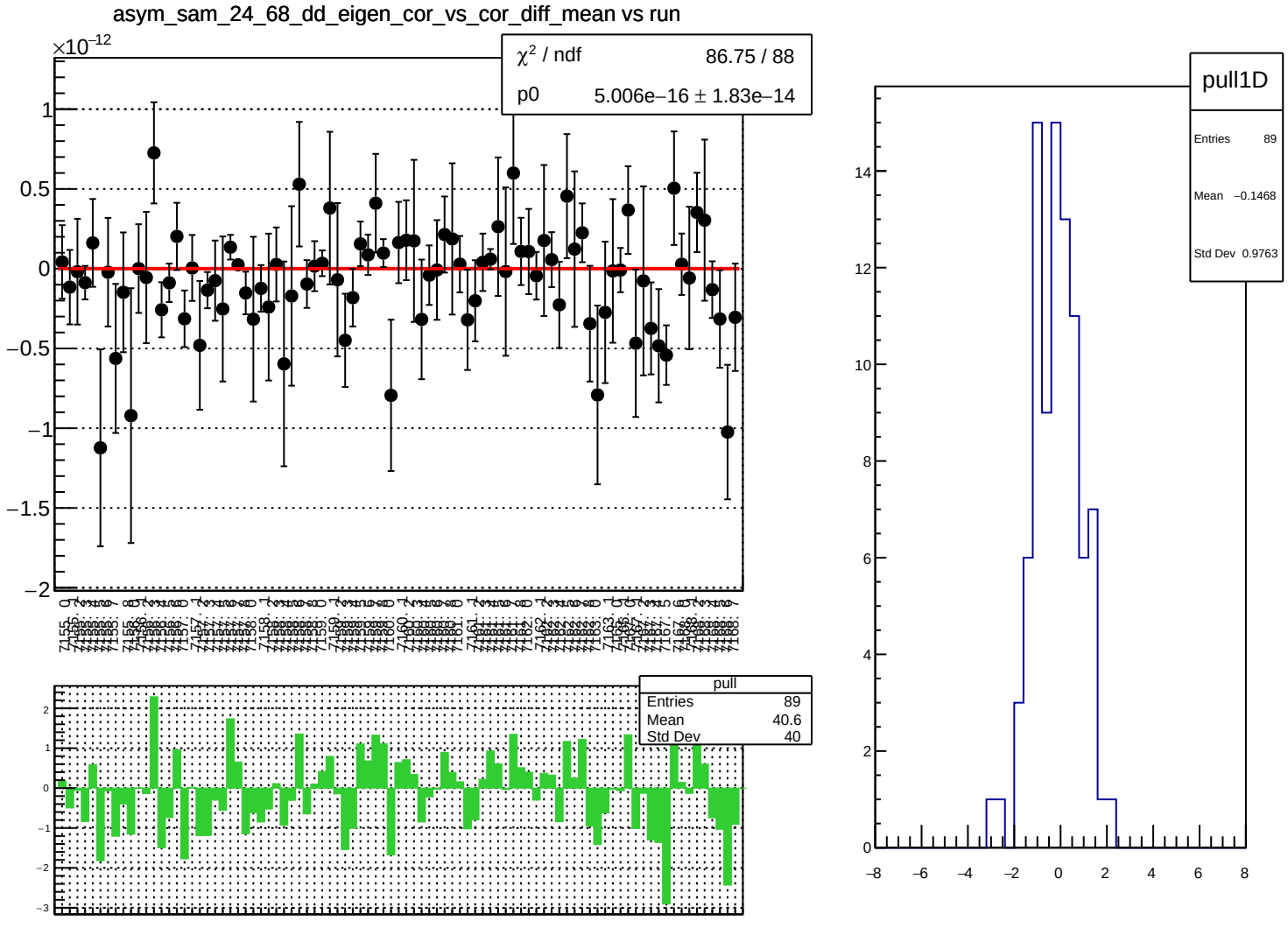

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.88 / 88
p0 −0.01409 ± 0.03331
pull
Entries 89
Mean 161.8
Std Dev 0

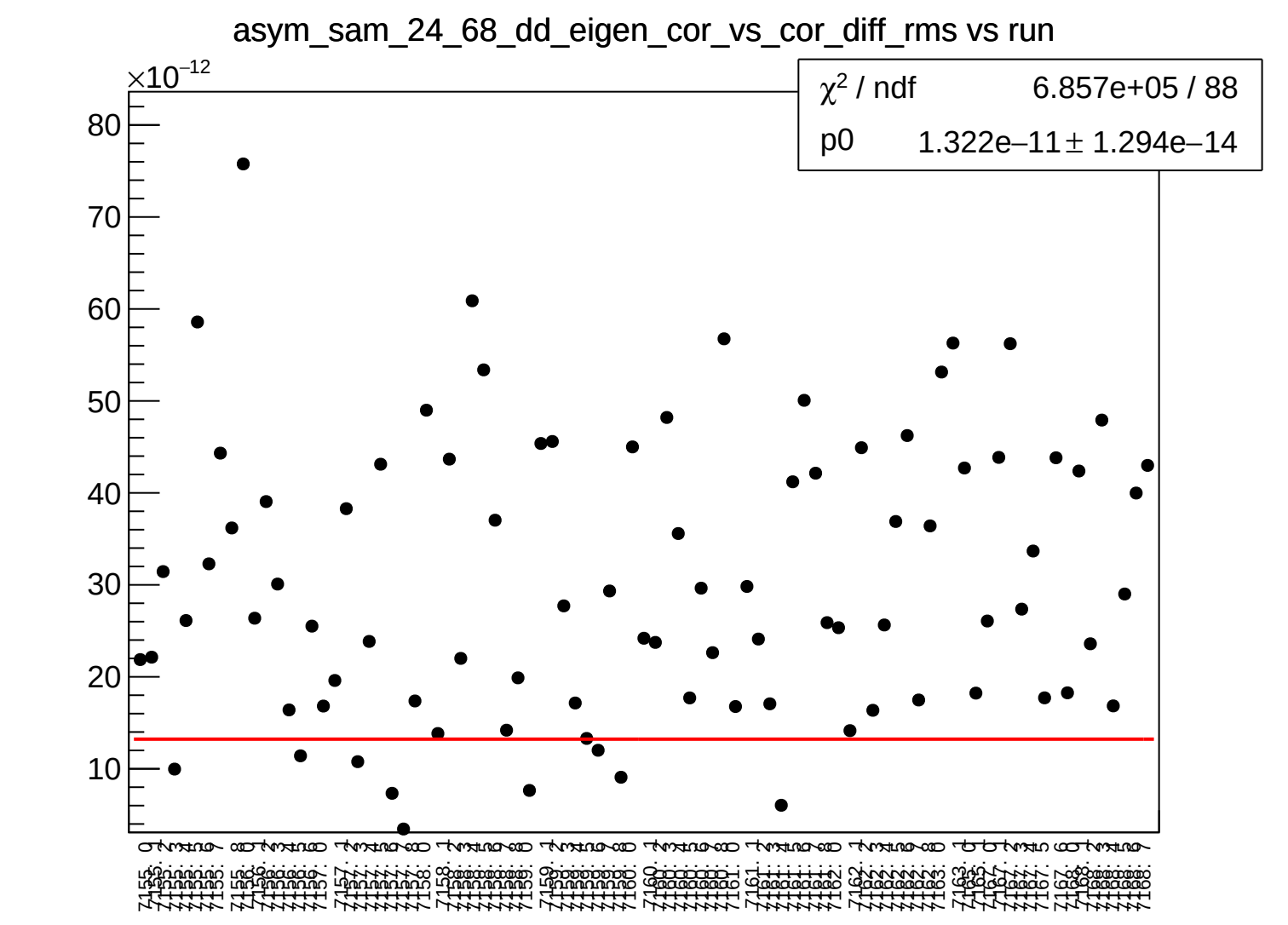

pull1D
Entries 89
Mean −0.03211
Std Dev 0.9932

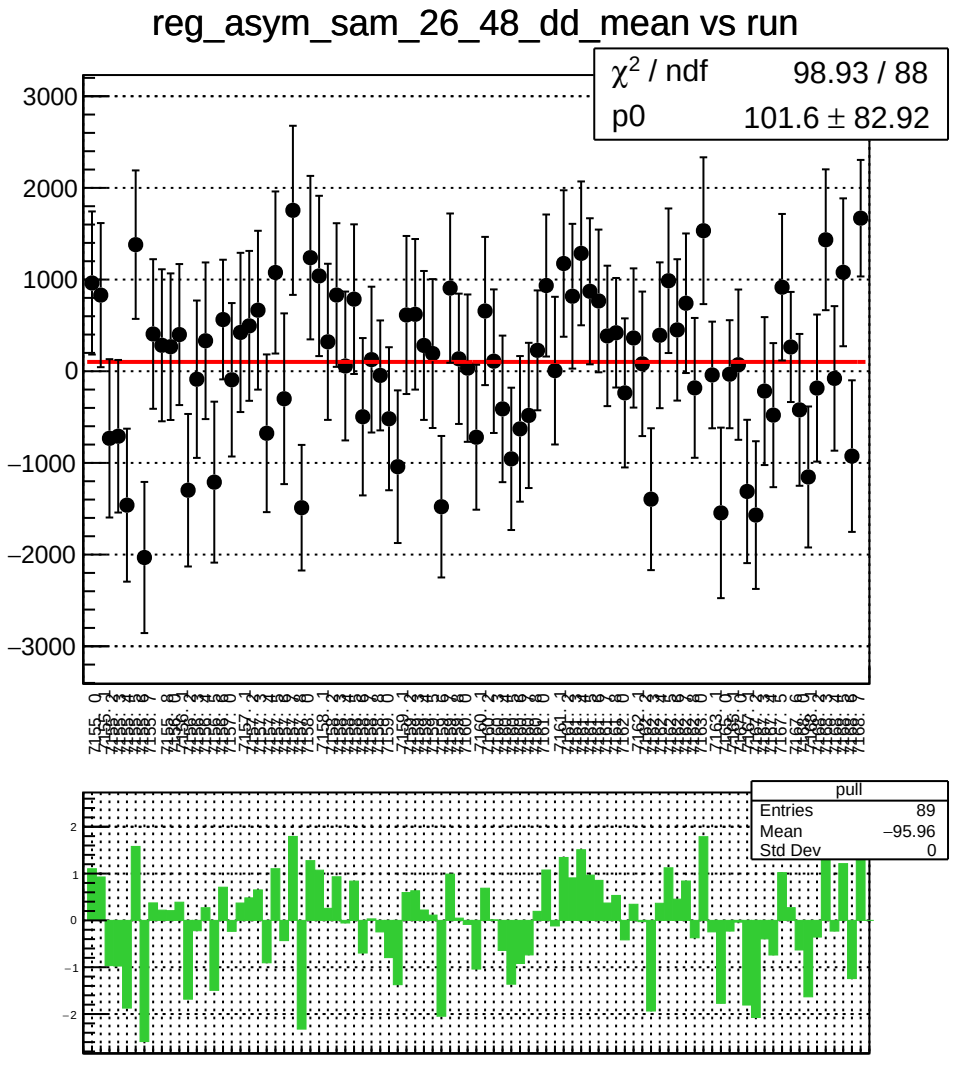

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 88
p0 30.62 ± 0.02355
65
60
55
50
45
40
35
30
25

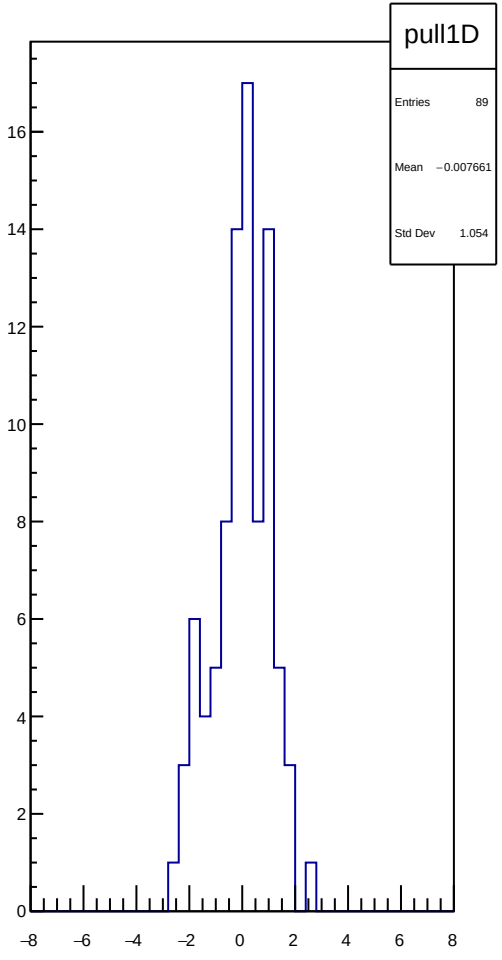

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.88 / 88
p0 −0.01409 ± 0.03331
pull
Entries 89
Mean 161.8
Std Dev 0
pull1D
Entries 89
Mean −0.03211
Std Dev 0.9932

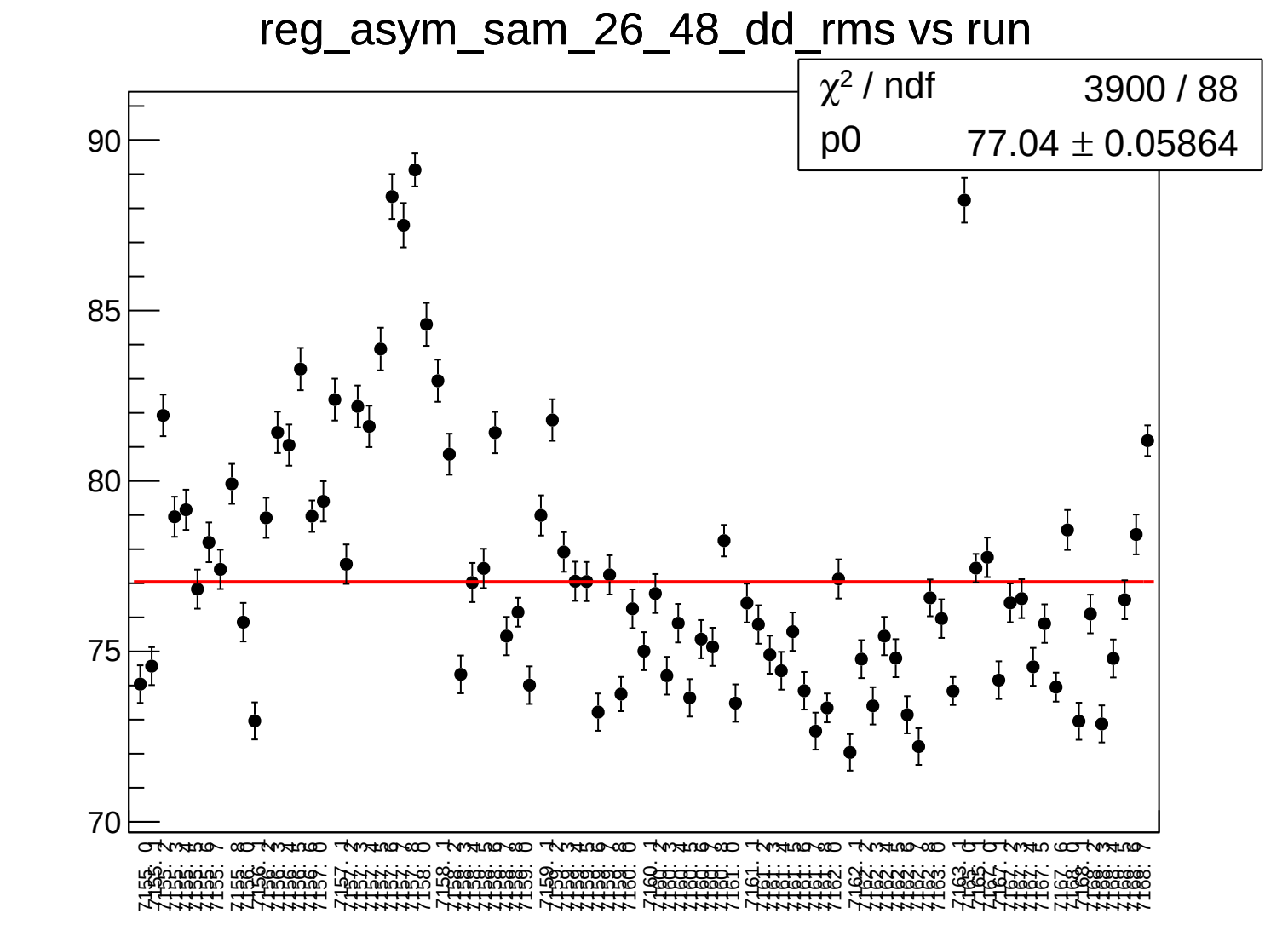

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.029e+04 / 88
p0 30.62 ± 0.02355
65
60
55
50
45
40
35
30
25

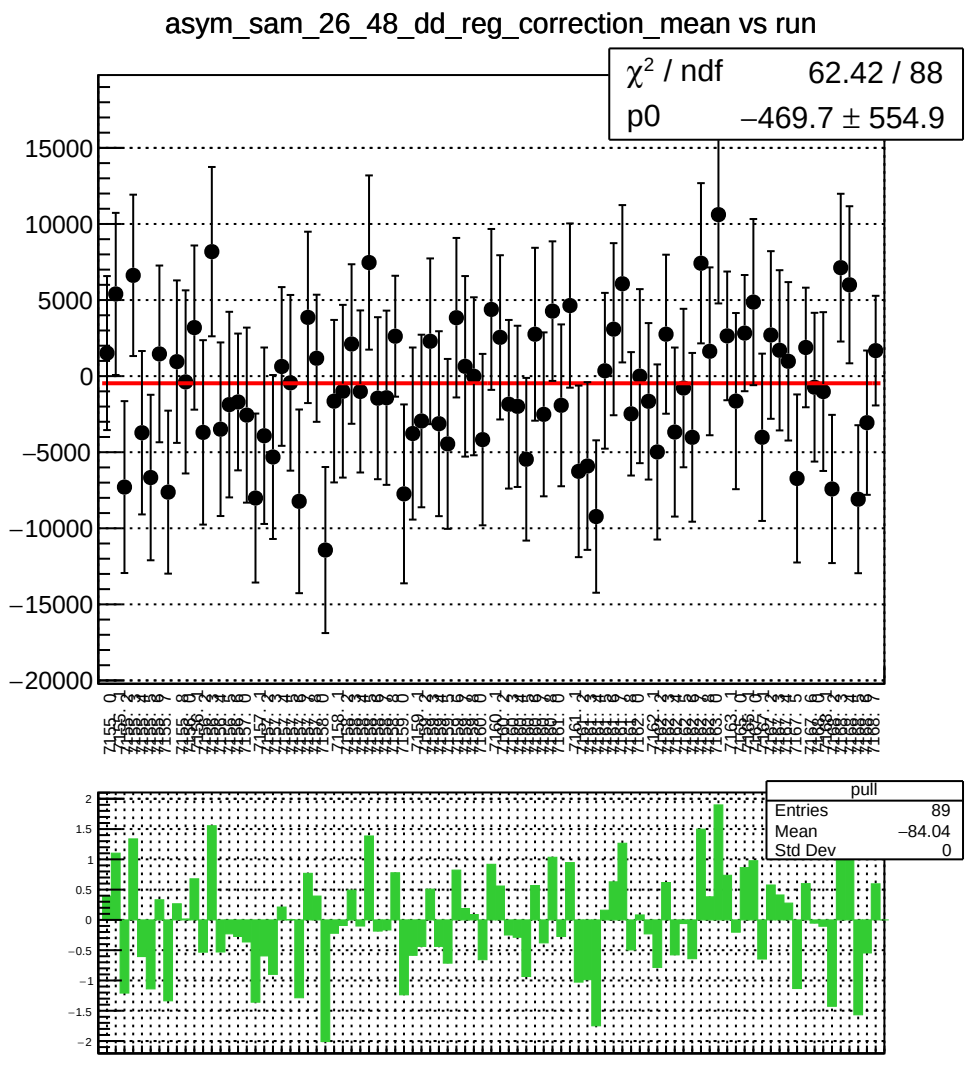

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.75 / 88
p0 5.006e−16 ± 1.83e−14
pull
Entries 89
Mean 40.6
Std Dev 40
pull1D
Entries 89
Mean −0.1468
Std Dev 0.9763

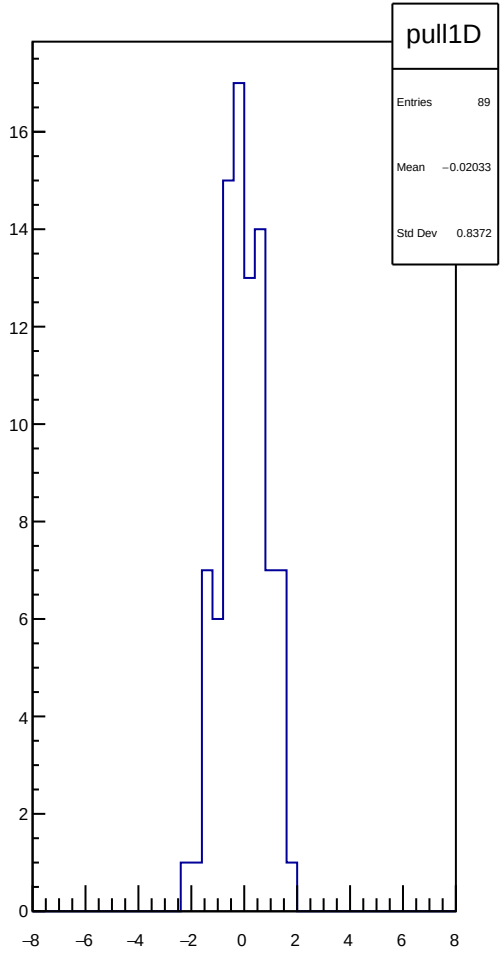

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.857e+05 / 88
p0 1.322e−11 ± 1.294e−14
80
70
60
50
40
30
20
10

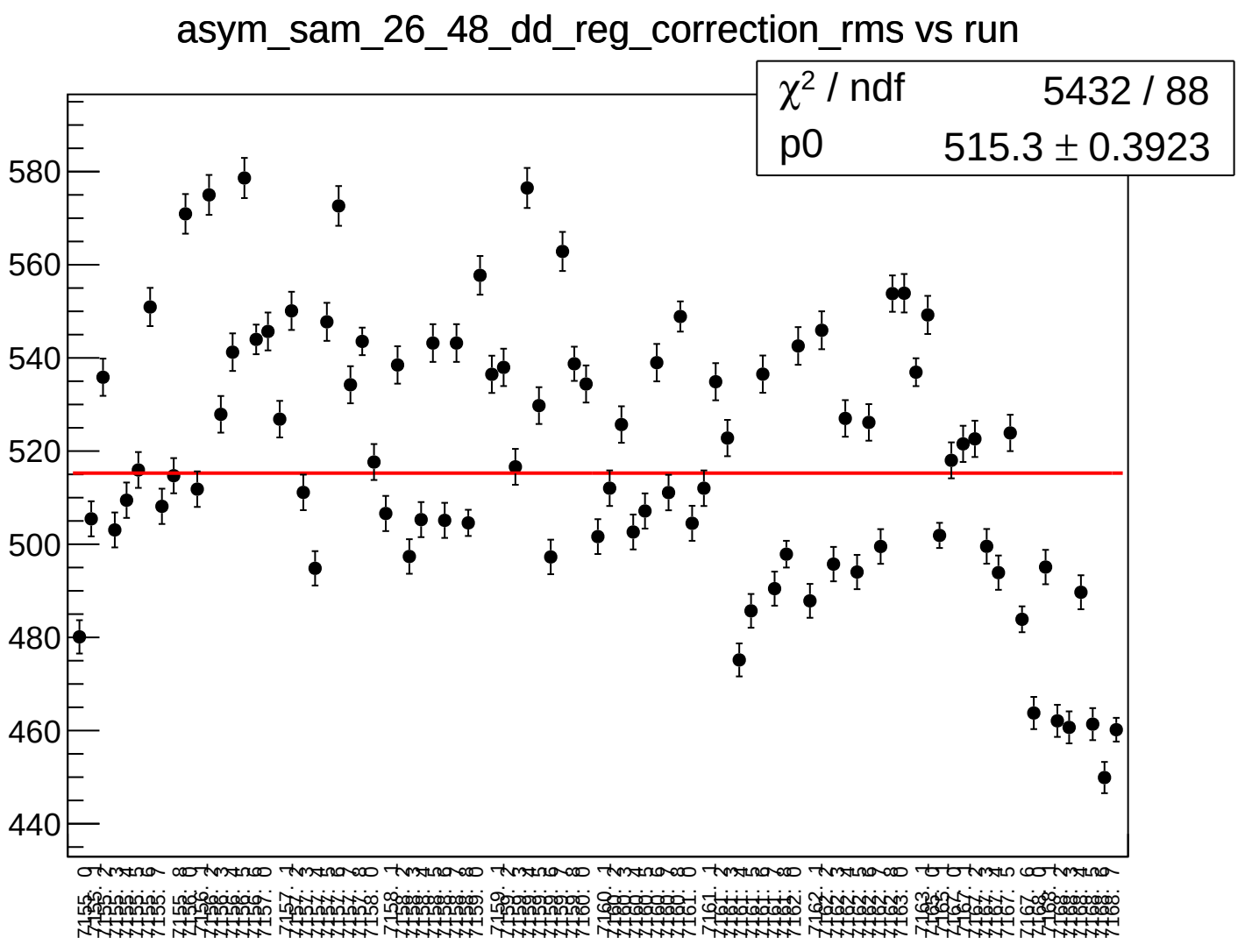

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 98.93 / 88
p0 101.6 ± 82.92
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −95.96
Std Dev 0
2
1
0
−1
−2

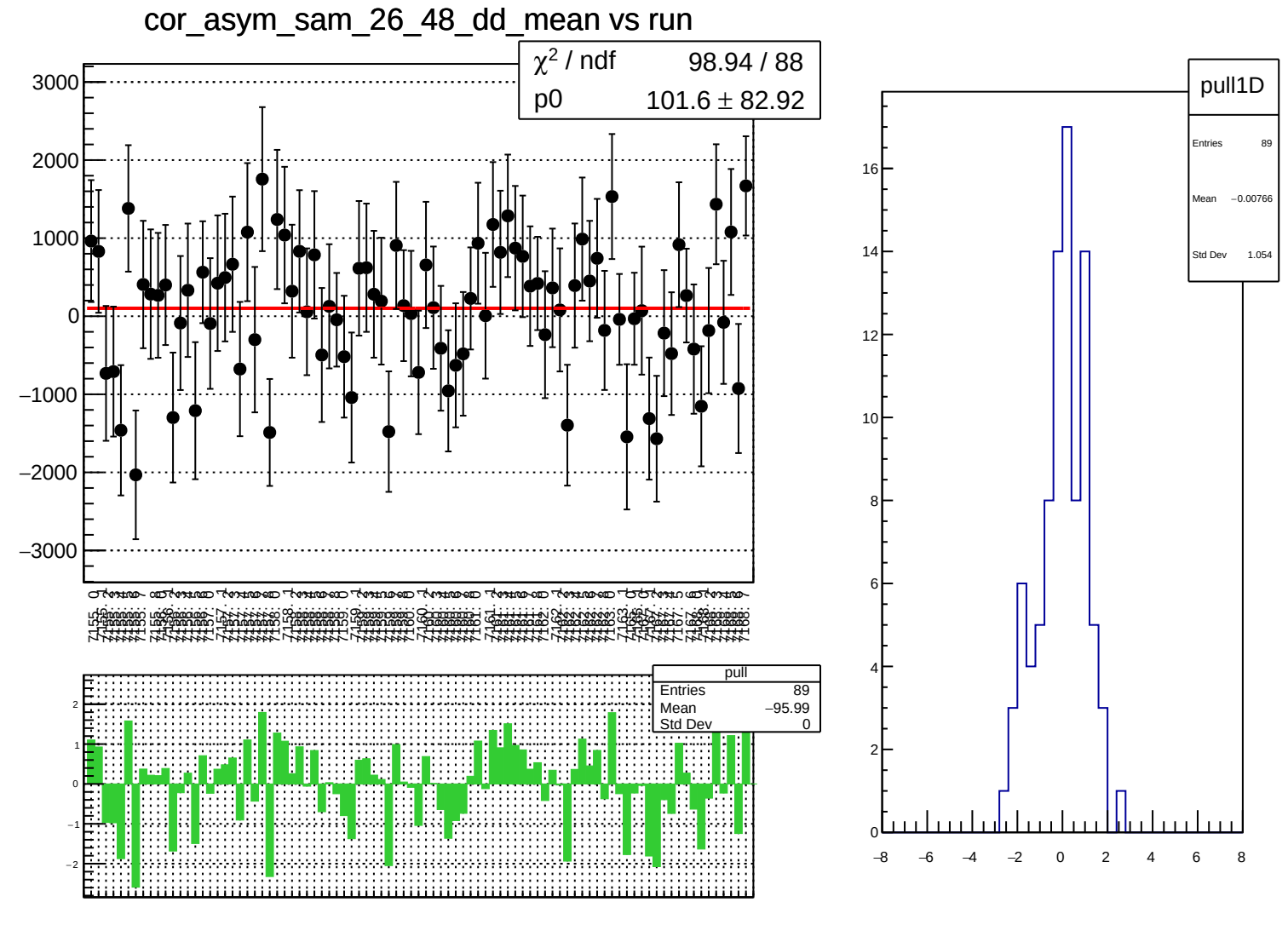

pull1D
Entries 89
Mean −0.007661
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

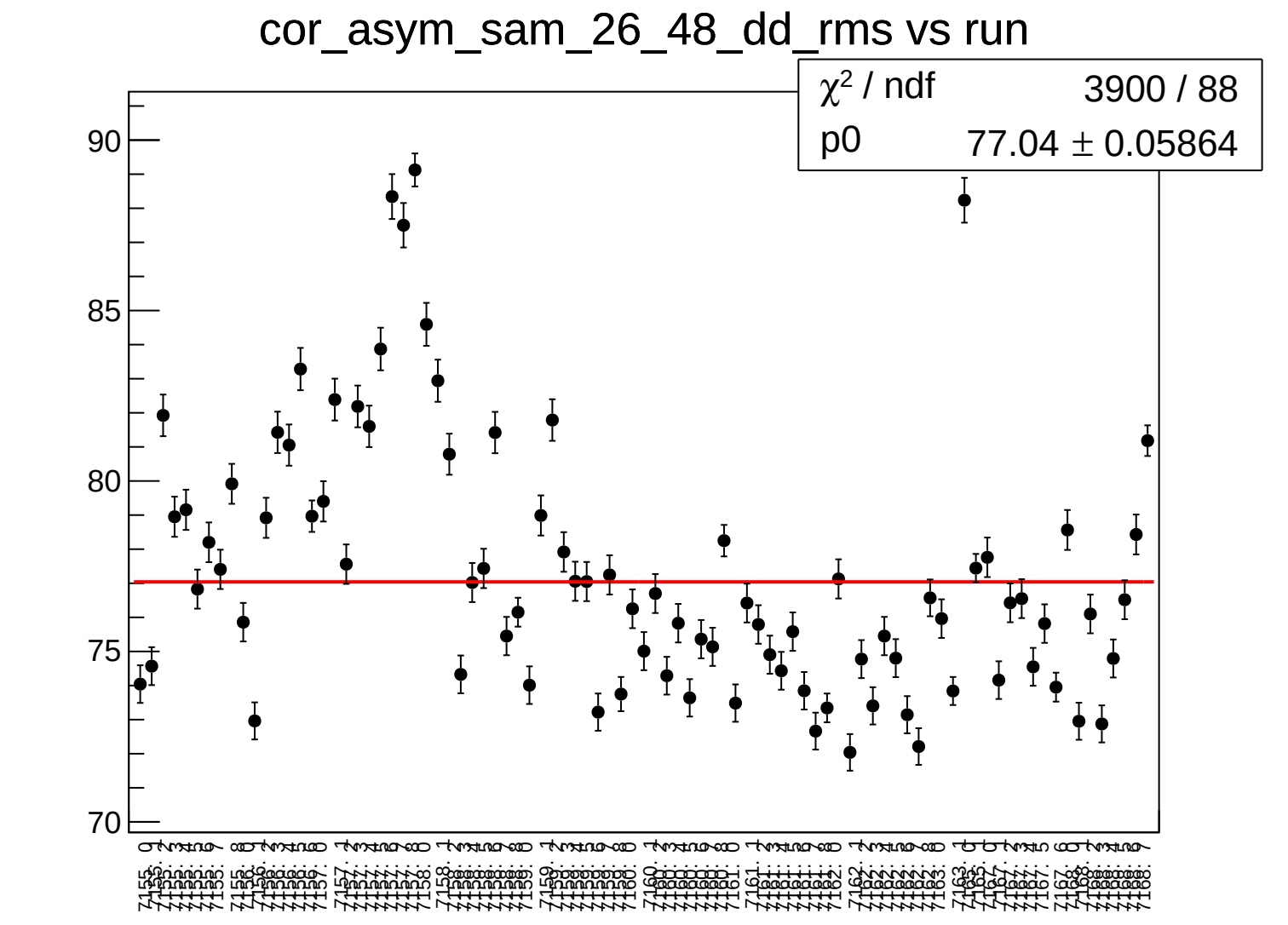

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 3900 / 88
p0 77.04 ± 0.05864
90
85
80
75
70

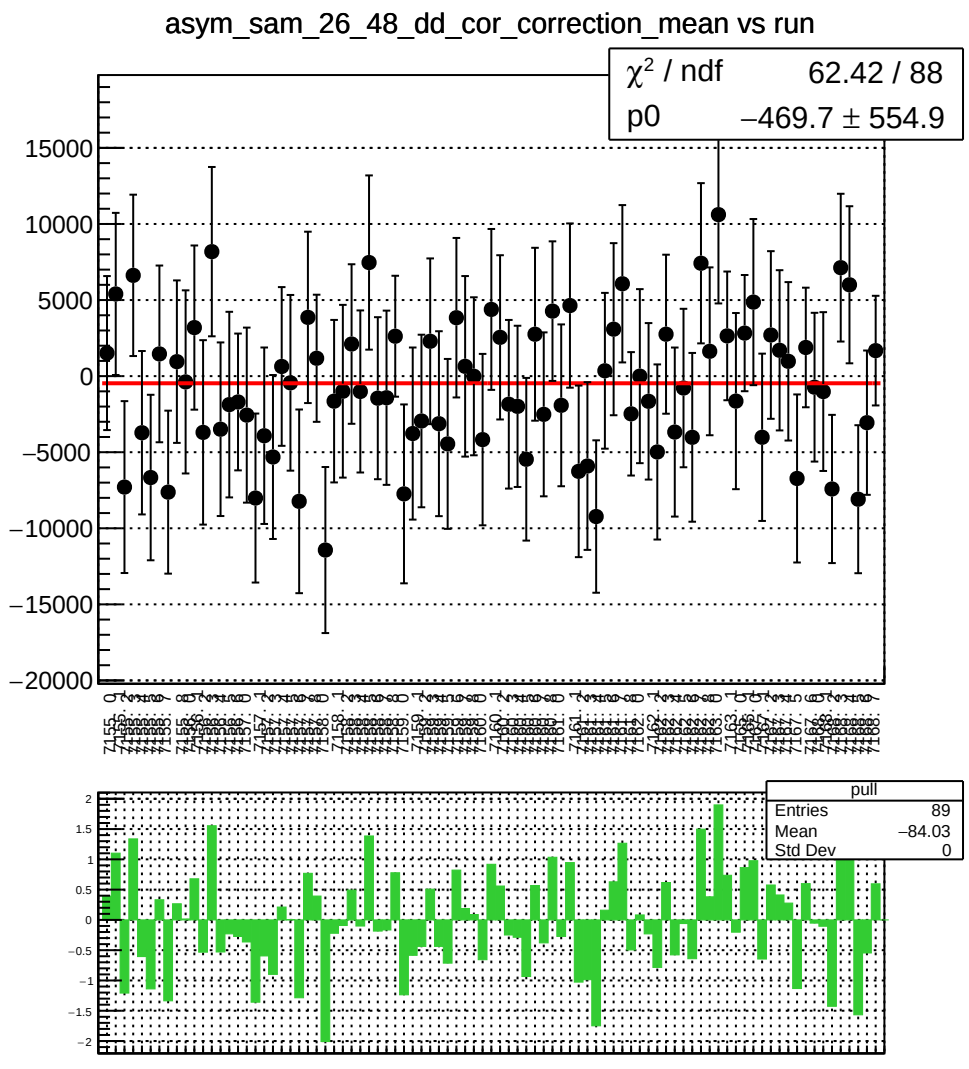

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 62.42 / 88
p0 −469.7 ± 554.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −84.04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

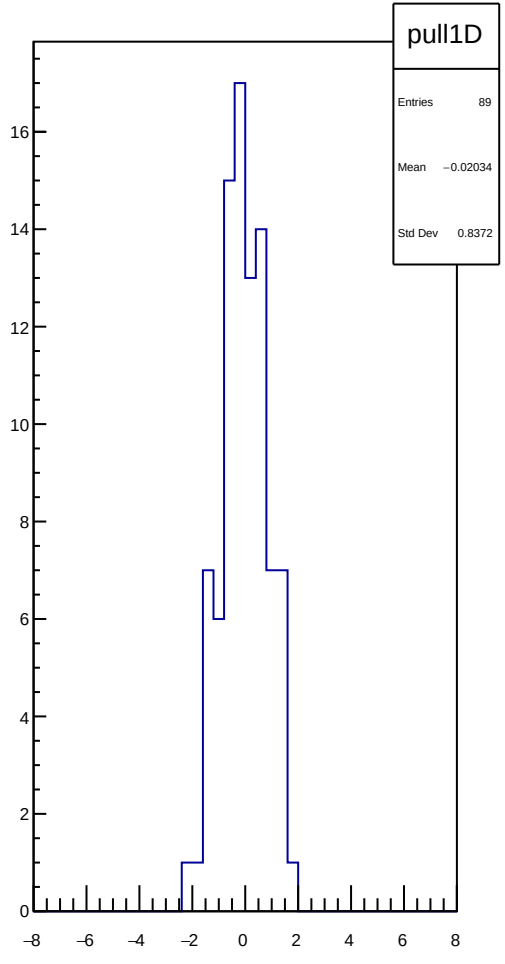

pull1D
Entries 89
Mean −0.02033
Std Dev 0.8372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

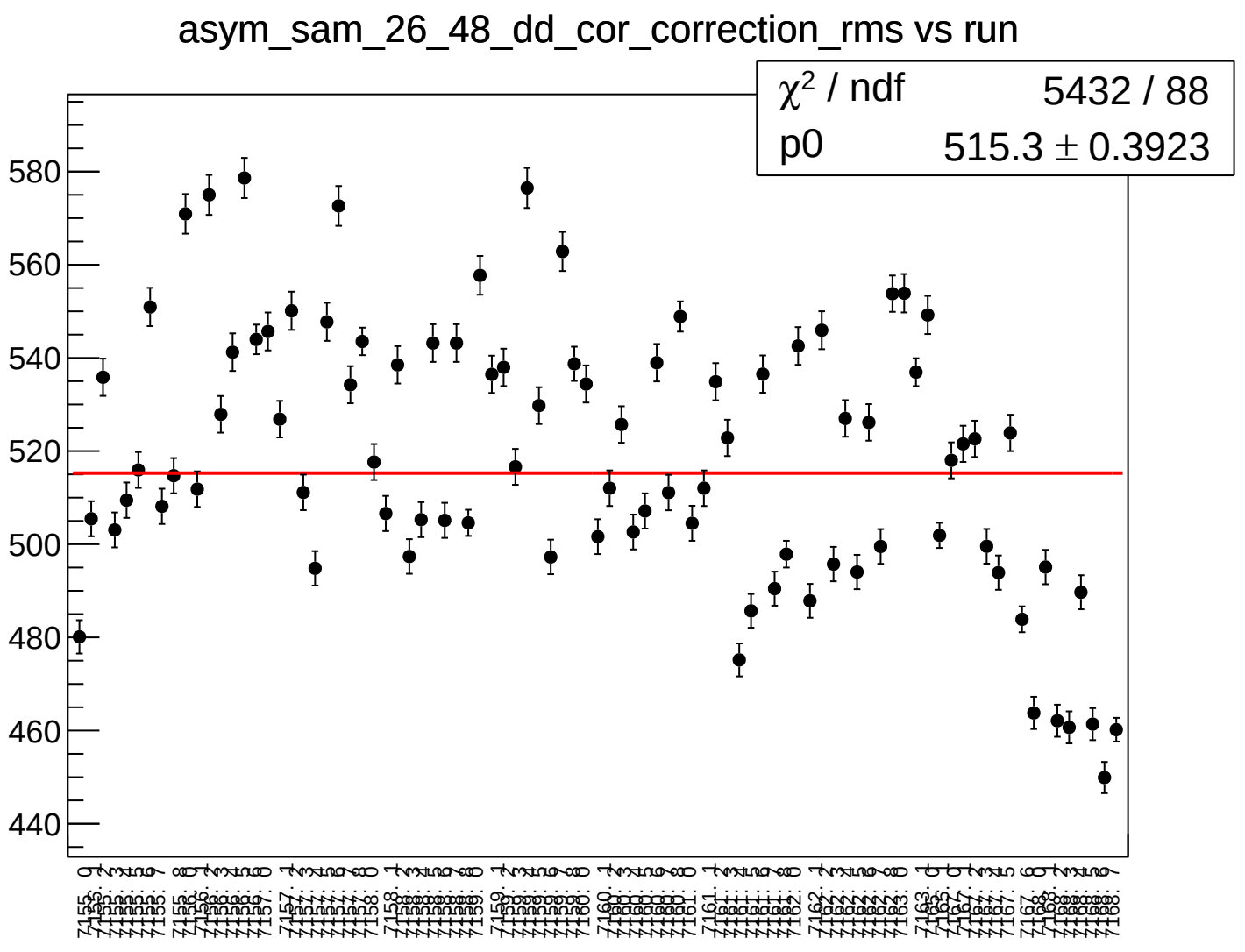

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 5432 / 88
p0 515.3 ± 0.3923
580
560
540
520
500
480
460
440

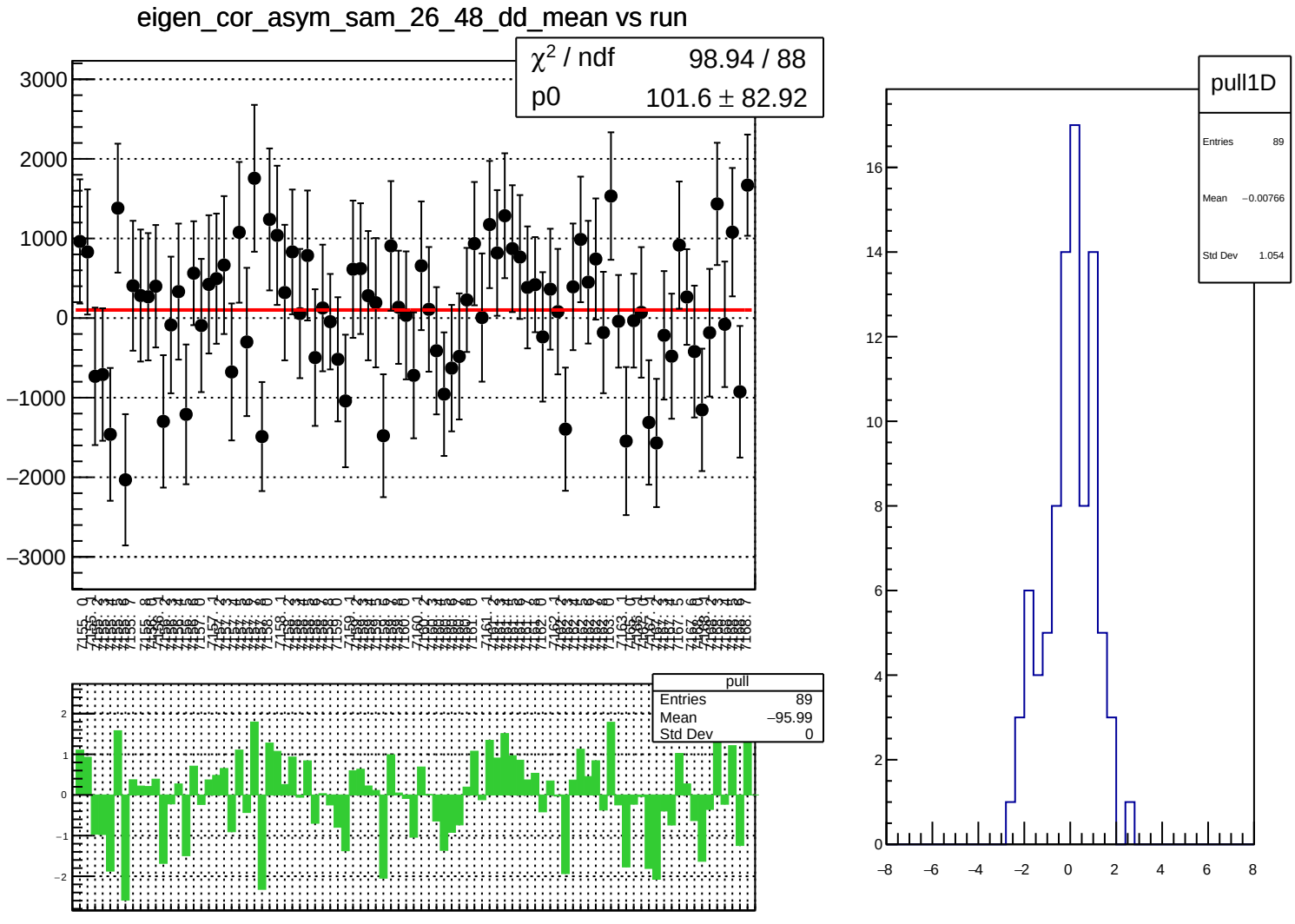

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 98.94 / 88
p0 101.6 ± 82.92
pull
Entries 89
Mean −95.99
Std Dev 0
pull1D
Entries 89
Mean −0.00766
Std Dev 1.054

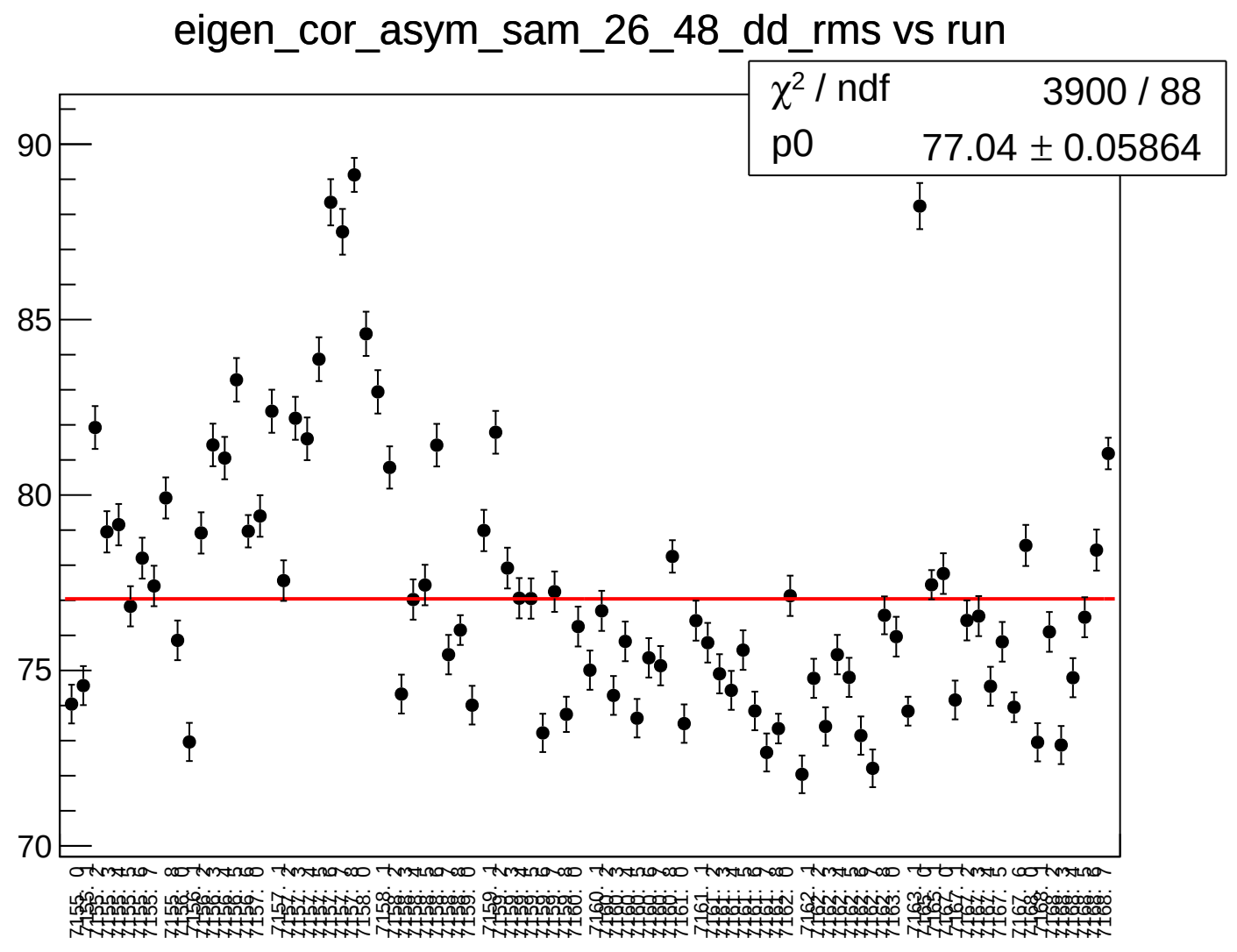

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3900 / 88
p0 77.04 ± 0.05864
90
85
80
75
70

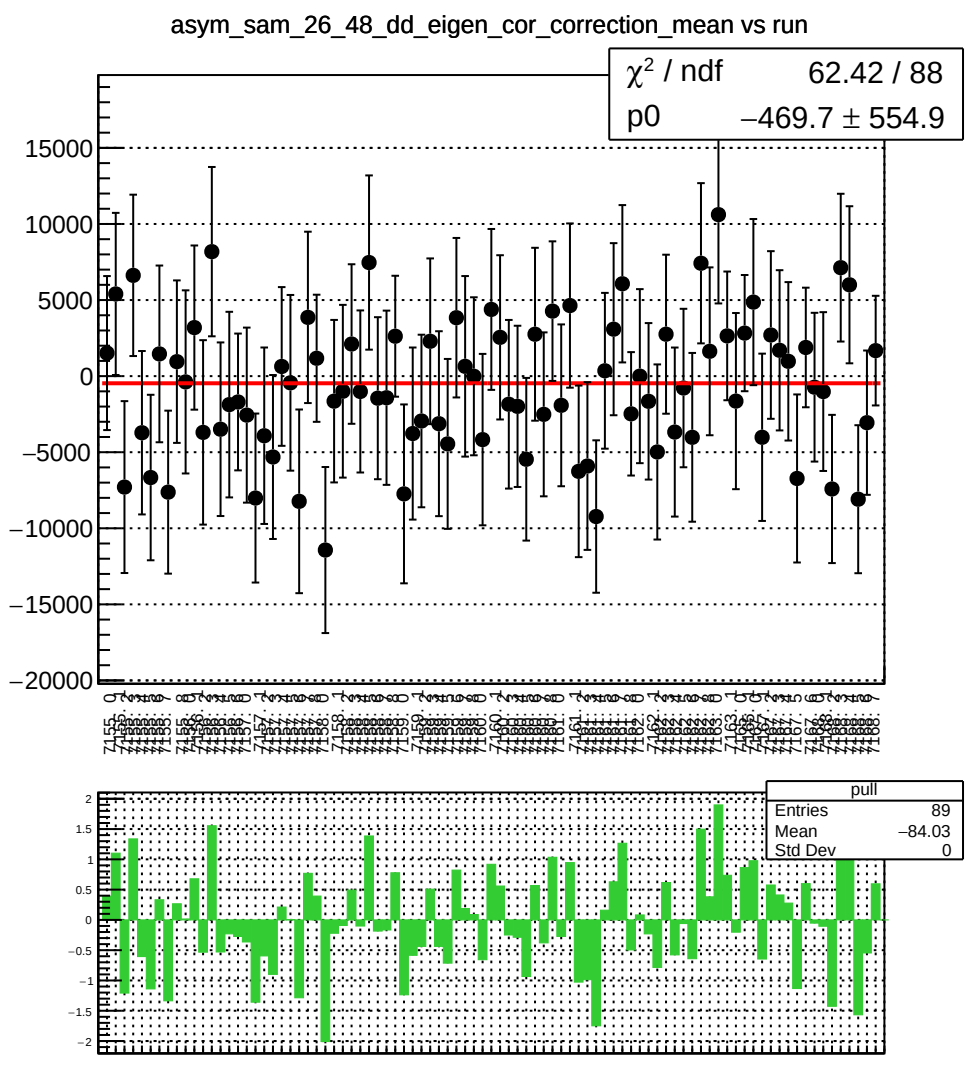

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 62.42 / 88
p0 −469.7 ± 554.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −84.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

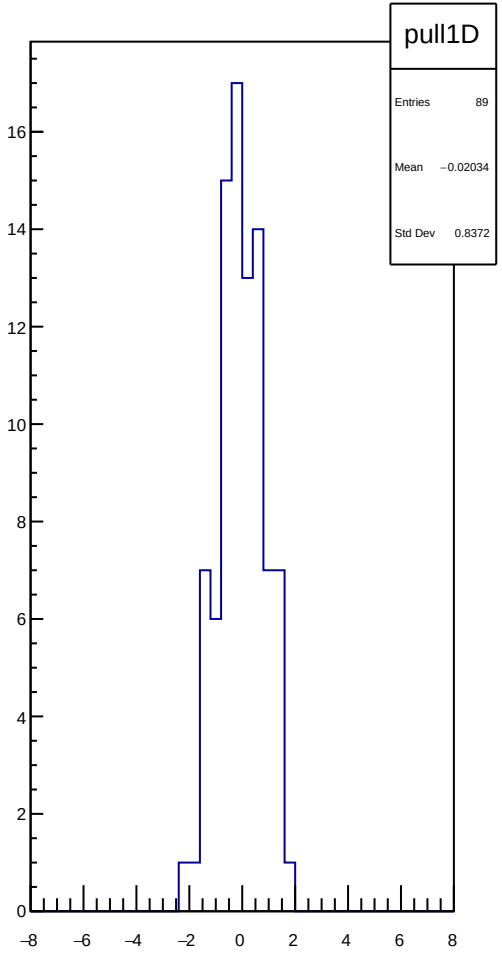

pull1D
Entries 89
Mean −0.02034
Std Dev 0.8372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

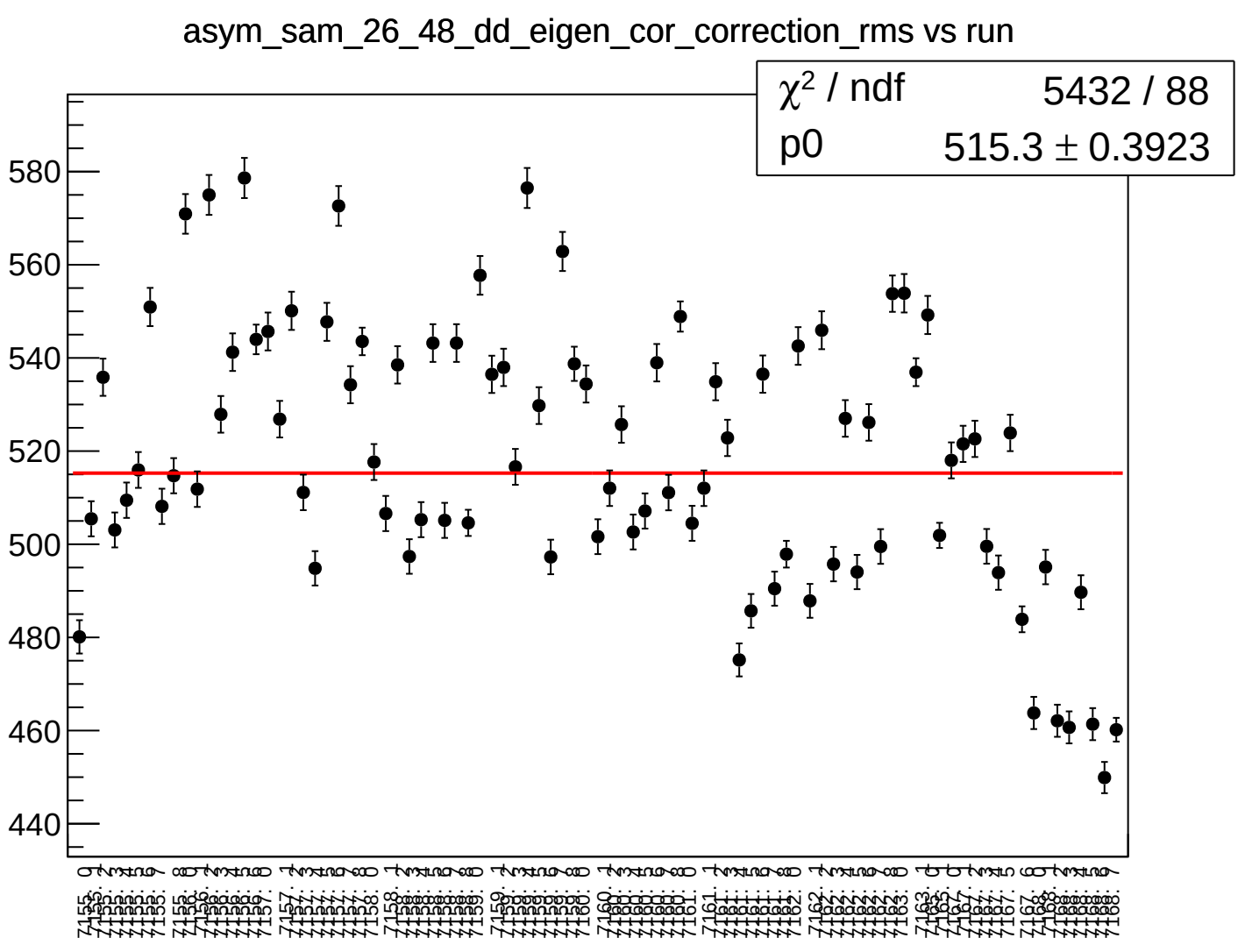

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 5432 / 88
p0 515.3 ± 0.3923
580
560
540
520
500
480
460
440

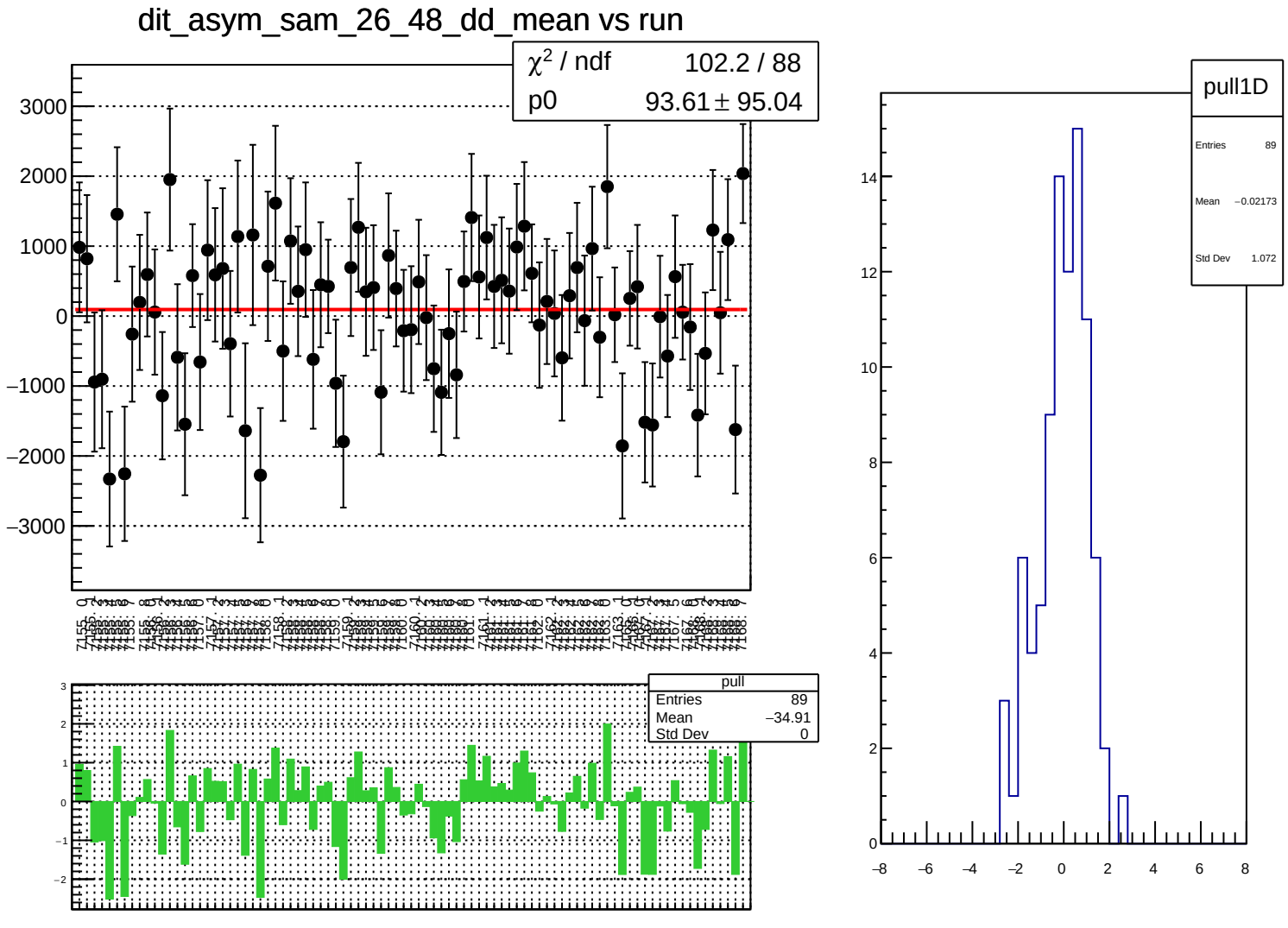

eigen_cor_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 98.94 / 88
p0 101.6 ± 82.92
pull
Entries 89
Mean −95.99
Std Dev 0
pull1D
Entries 89
Mean −0.00766
Std Dev 1.054

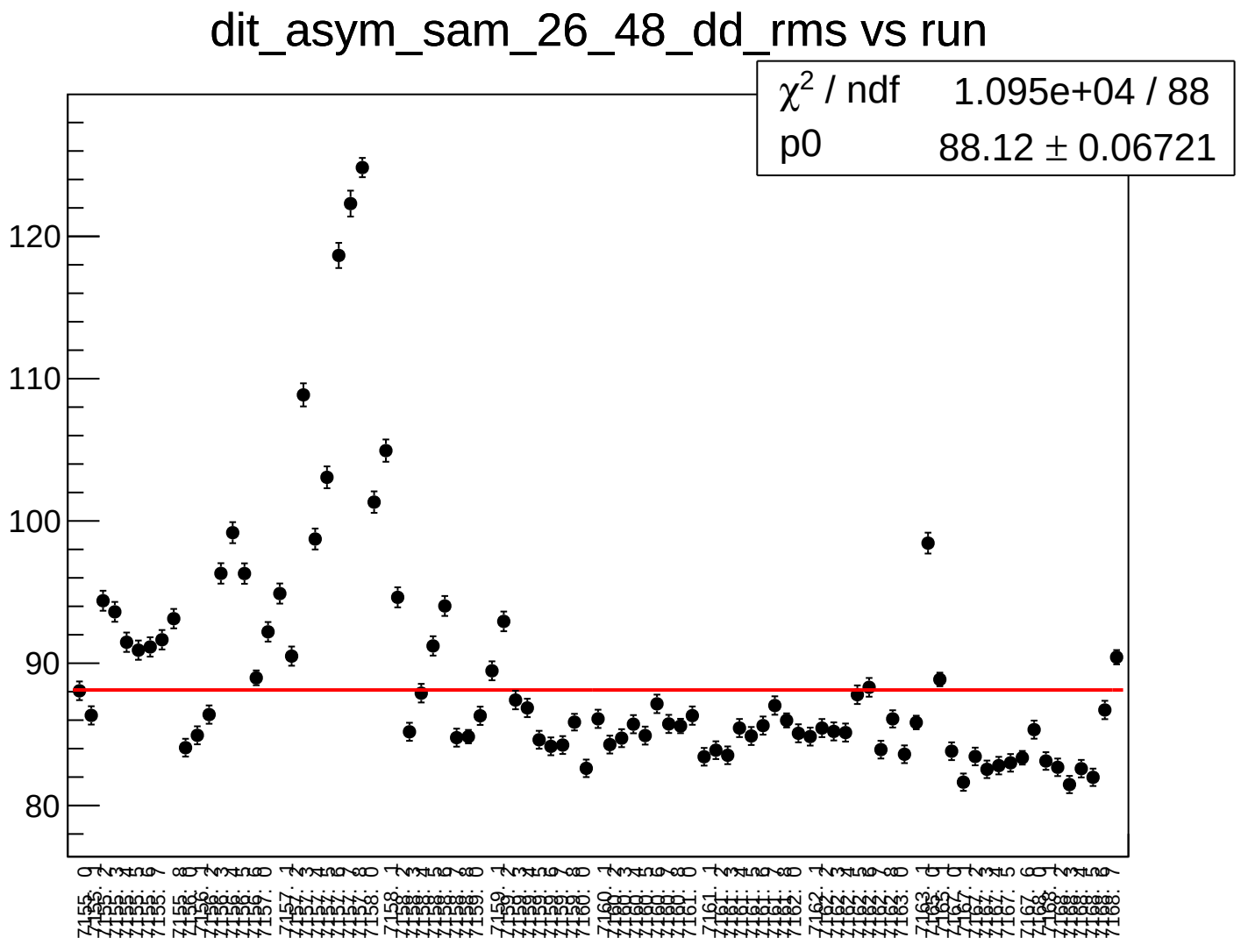

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 3900 / 88
p0 77.04 ± 0.05864
90
85
80
75
70

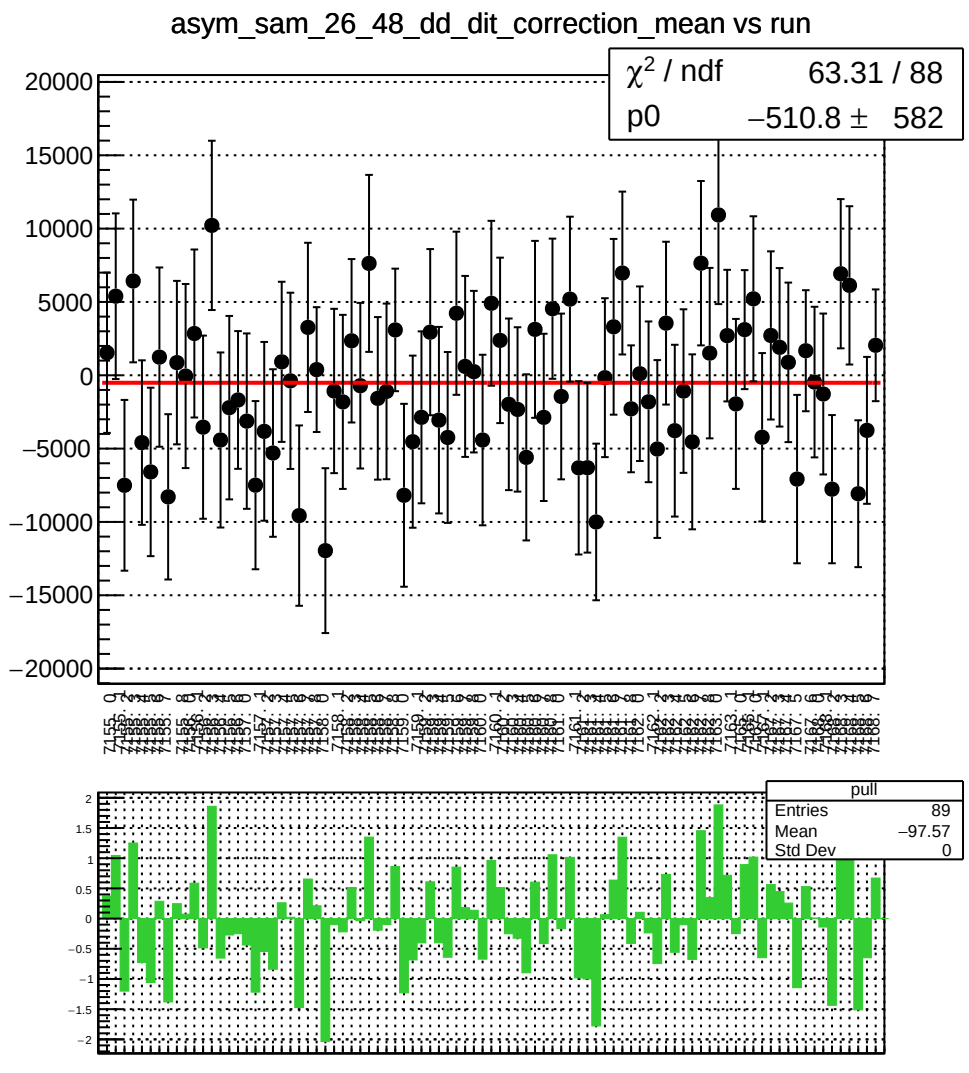

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 62.42 / 88
p0 −469.7 ± 554.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −84.03
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

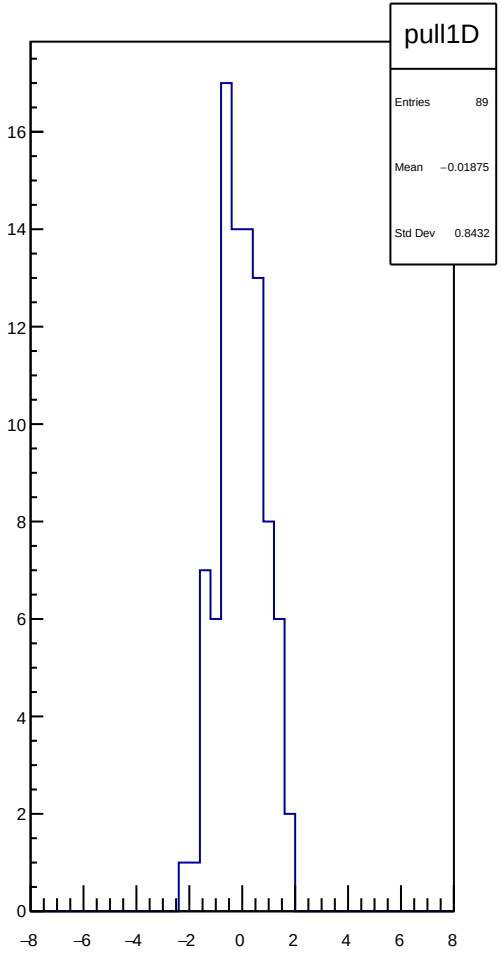

pull1D
Entries 89
Mean −0.02034
Std Dev 0.8372
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

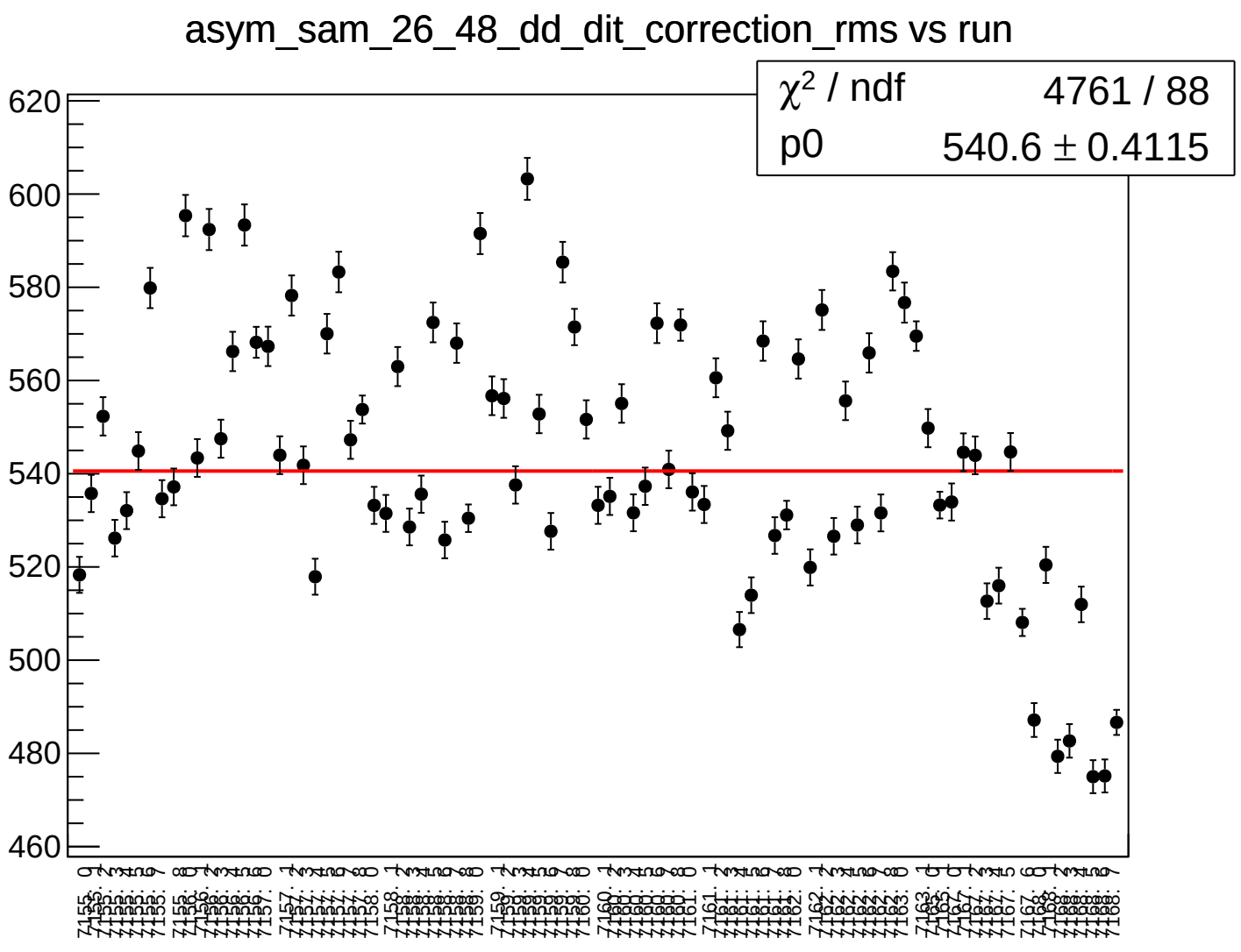

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5432 / 88
p0 515.3 ± 0.3923
580
560
540
520
500
480
460
440

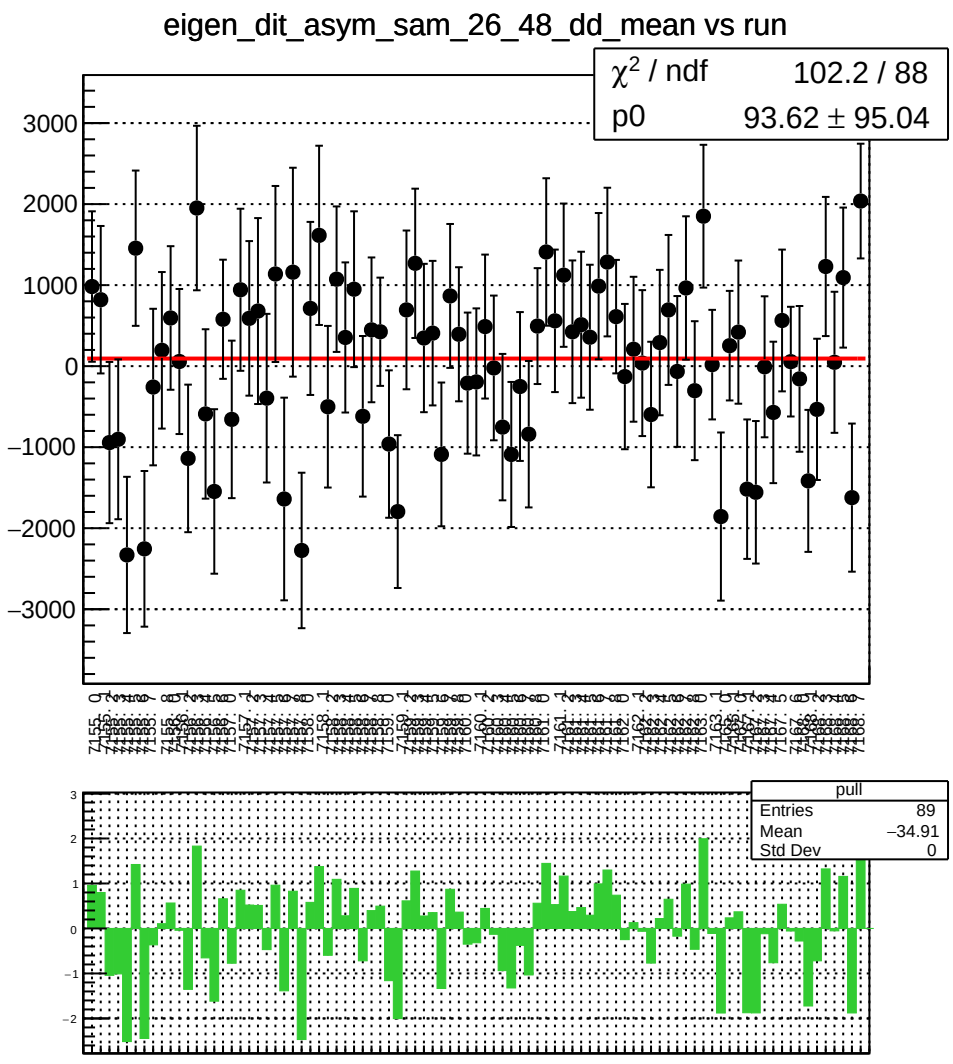

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.2 / 88
p0 93.61 ± 95.04
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −34.91
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.02173
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

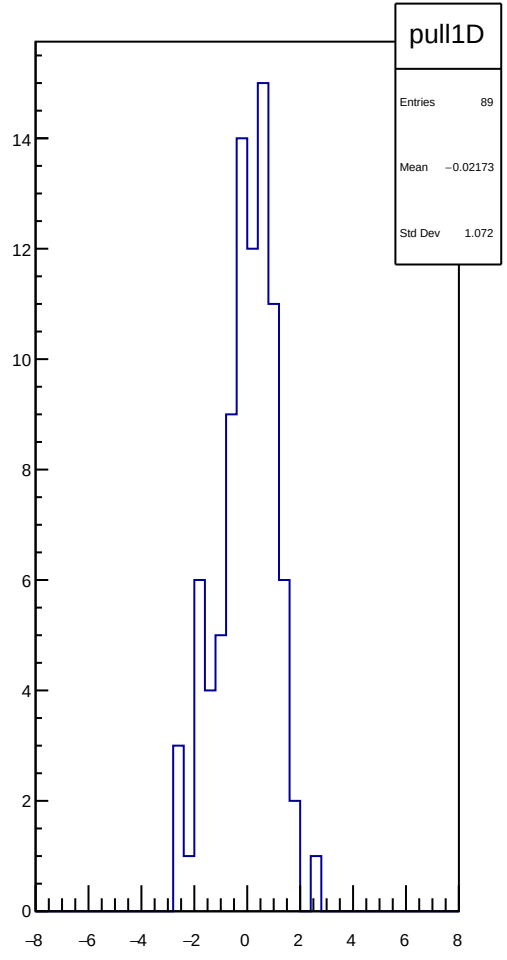

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.095e+04 / 88
p0 88.12 ± 0.06721
120
110
100
90
80

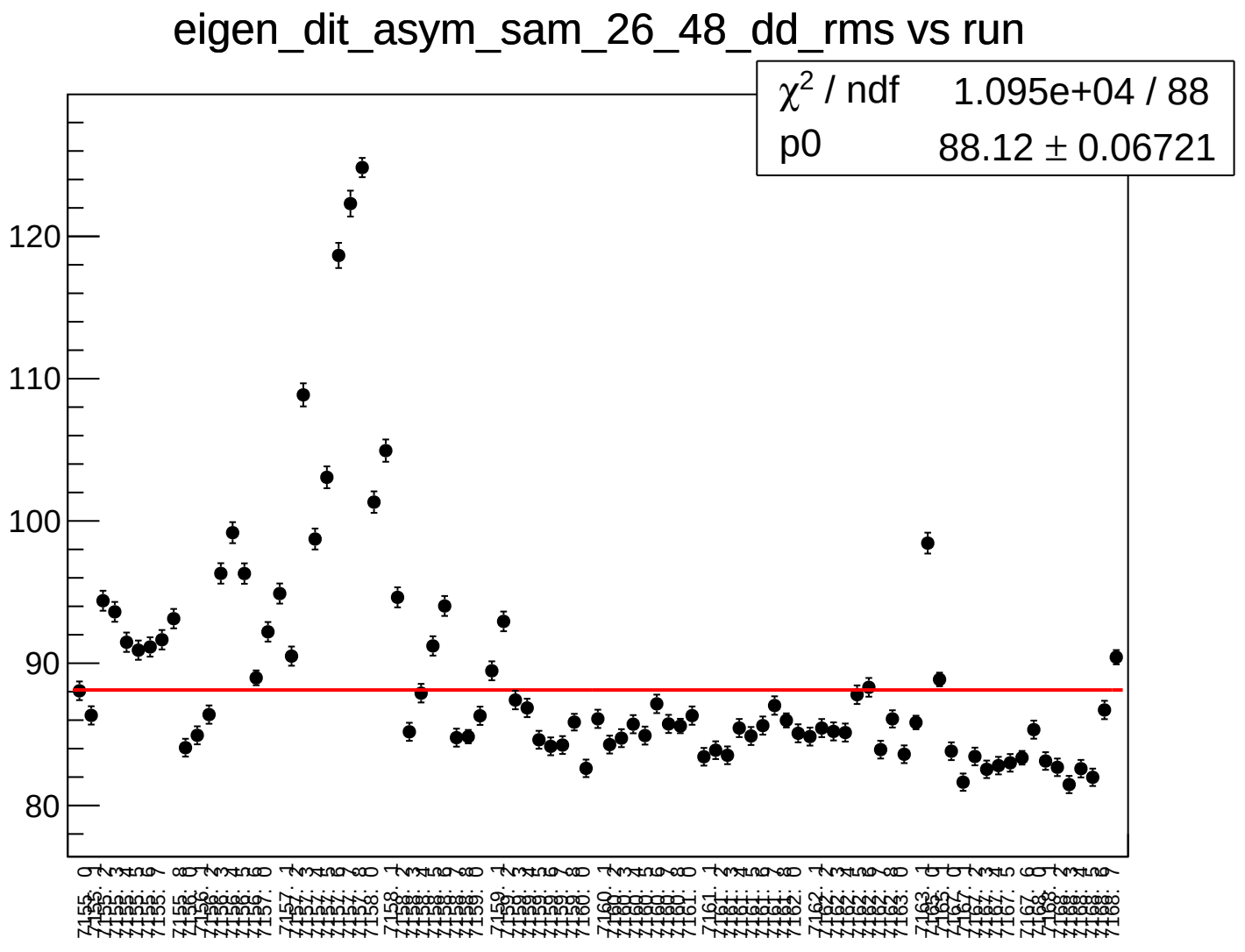

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 63.31 / 88
p0 −510.8 ± 582
pull
Entries 89
Mean −97.57
Std Dev 0

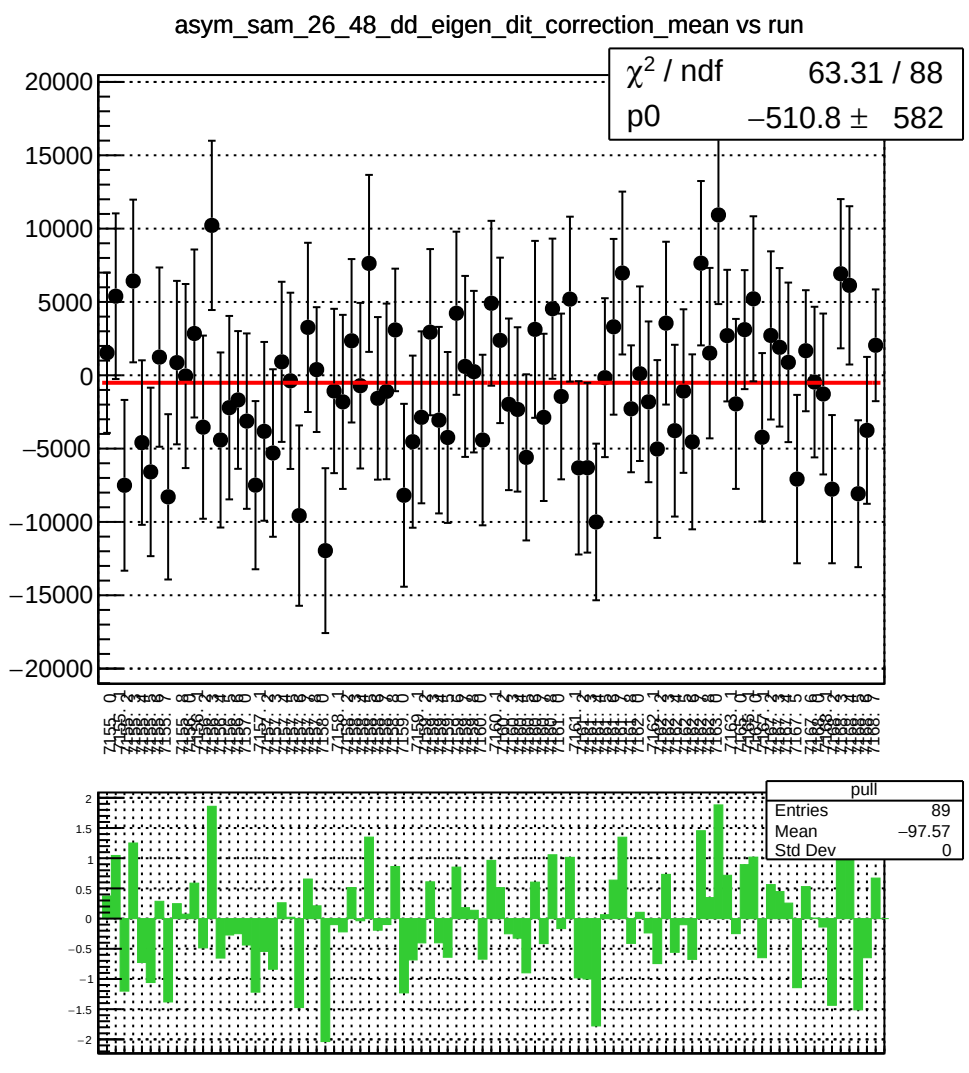

pull1D
Entries 89
Mean −0.01875
Std Dev 0.8432

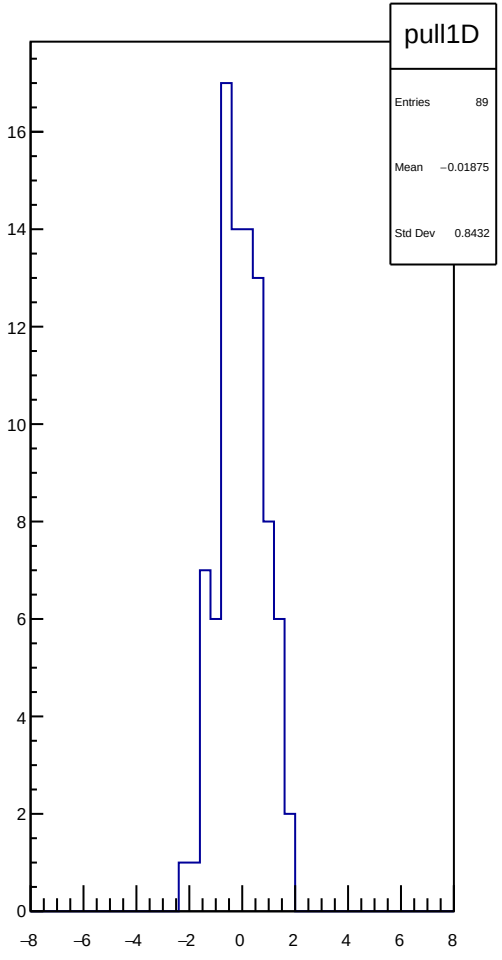

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 4761 / 88
p0 540.6 ± 0.4115
620
600
580
560
540
520
500
480
460

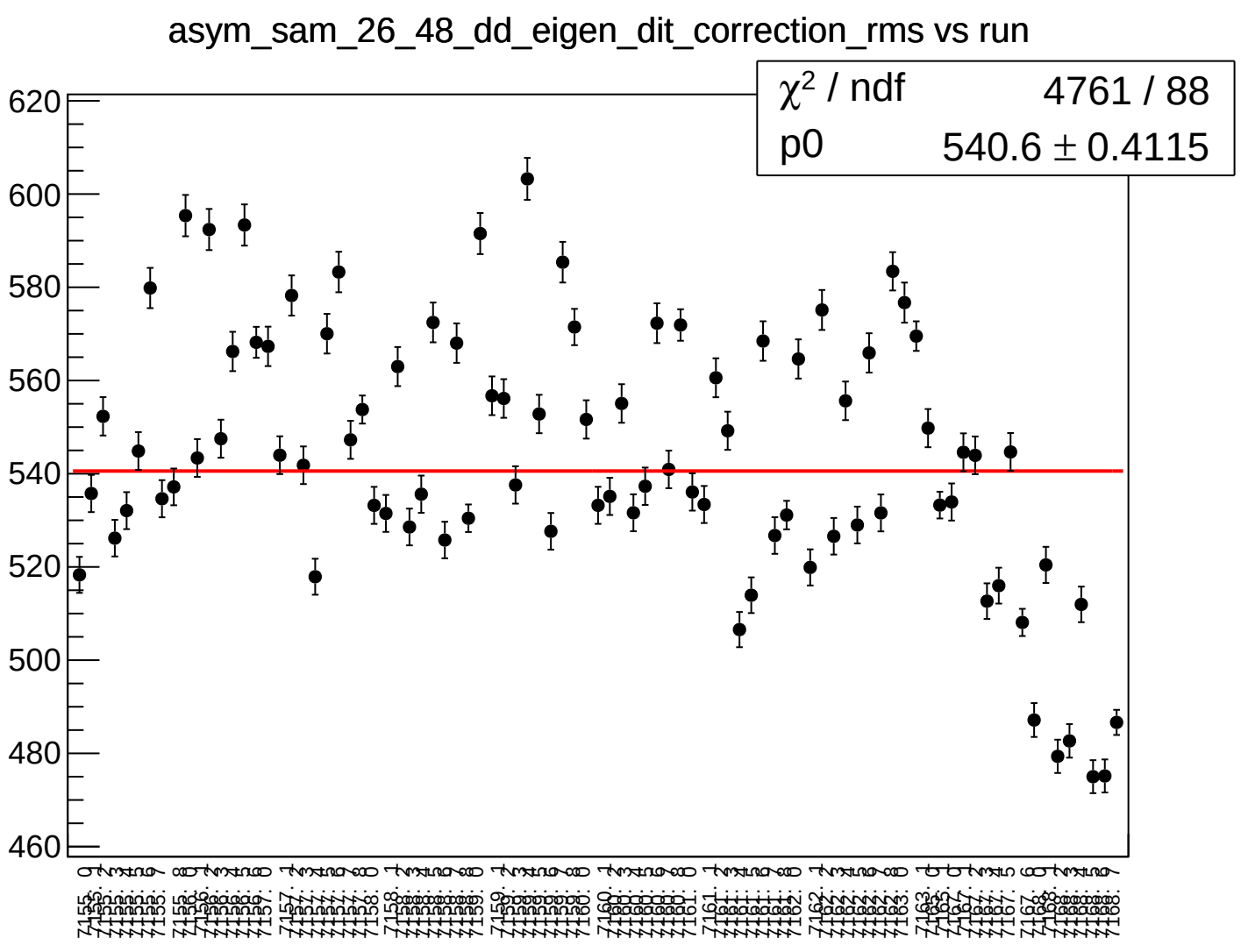

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 102.2 / 88
p0 93.62 ± 95.04
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −34.91
Std Dev 0

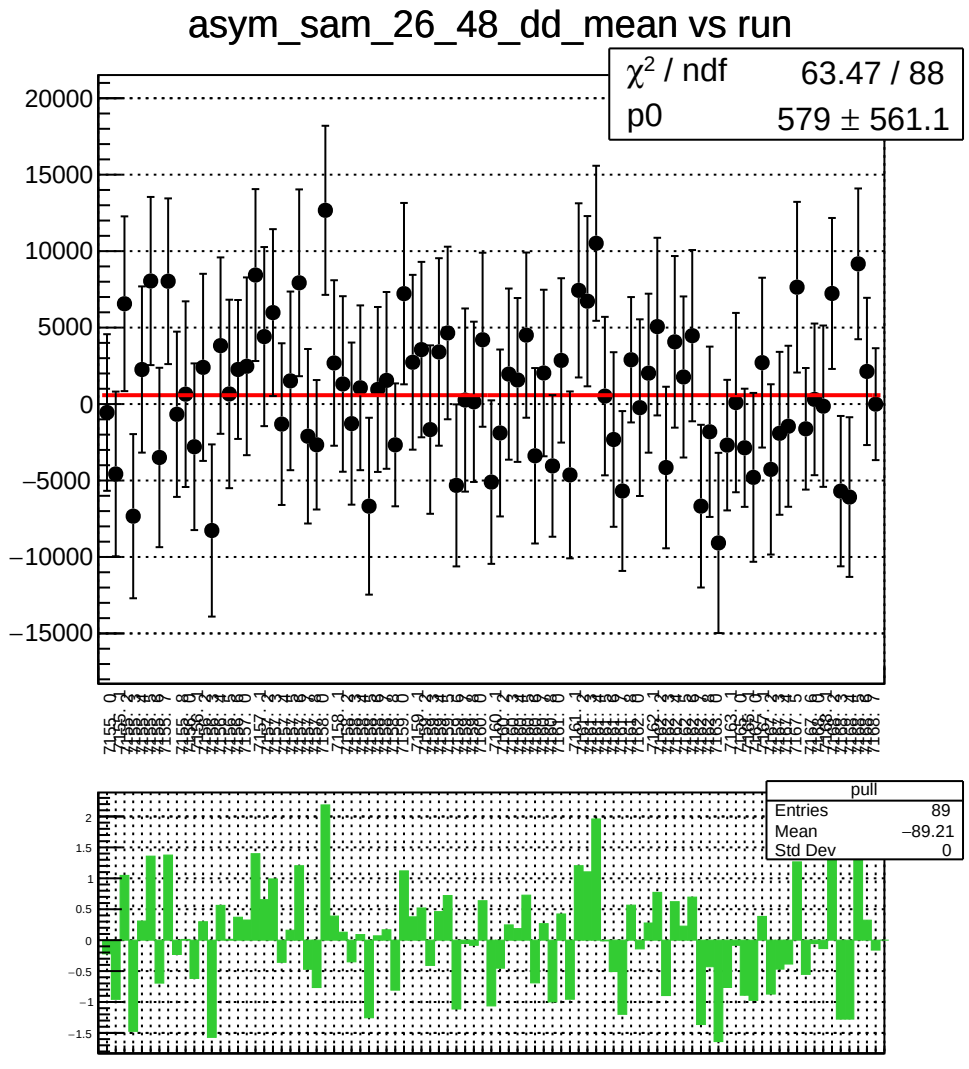

pull1D
Entries 89
Mean −0.02173
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

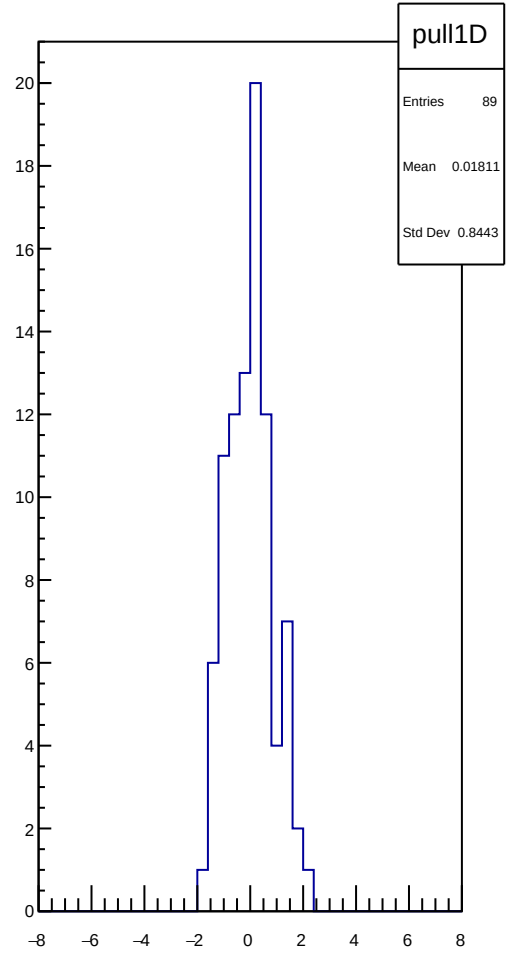

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.095e+04 / 88
p0 88.12 ± 0.06721
120
110
100
90
80

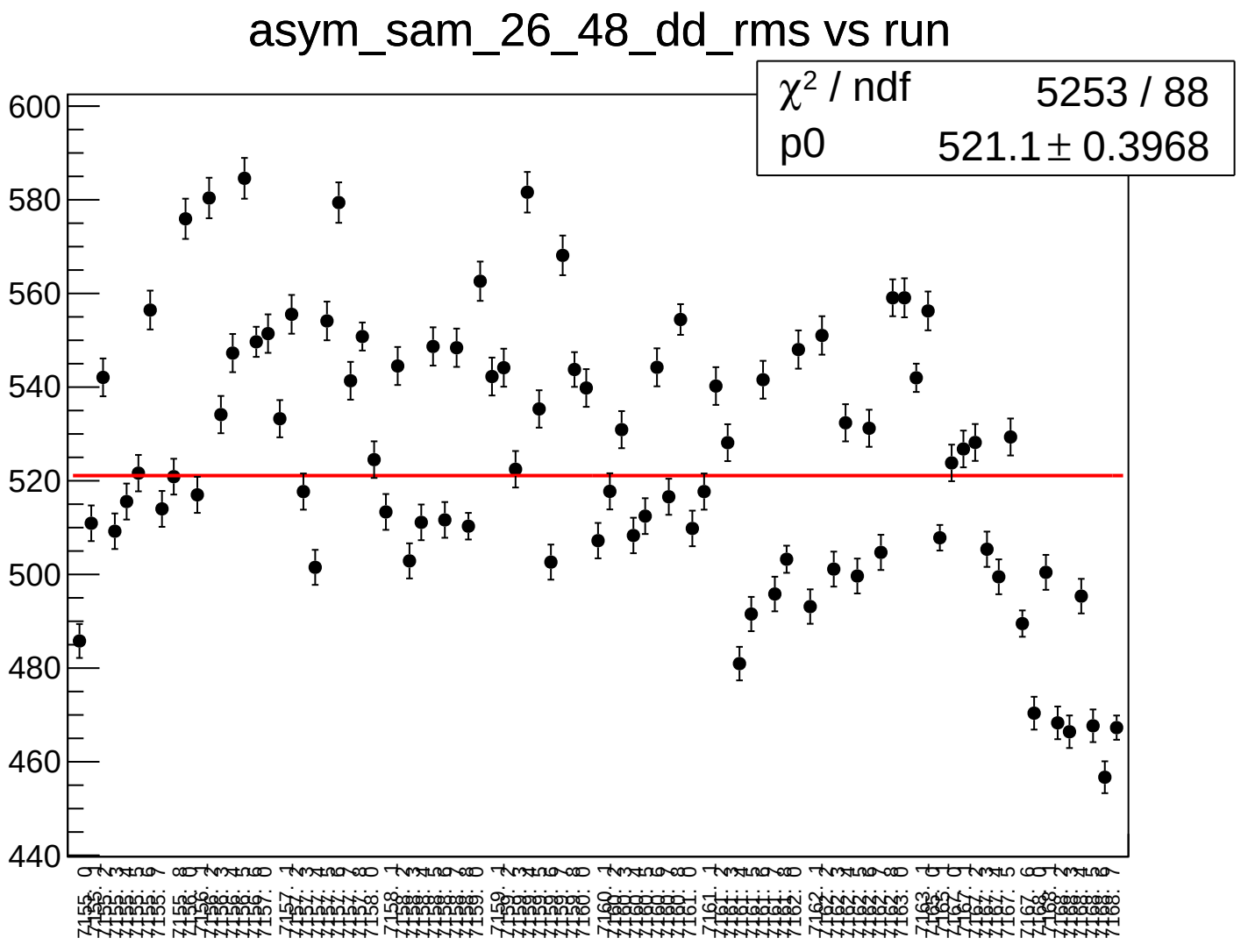

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 63.31 / 88
p0 −510.8 ± 582
pull
Entries 89
Mean −97.57
Std Dev 0

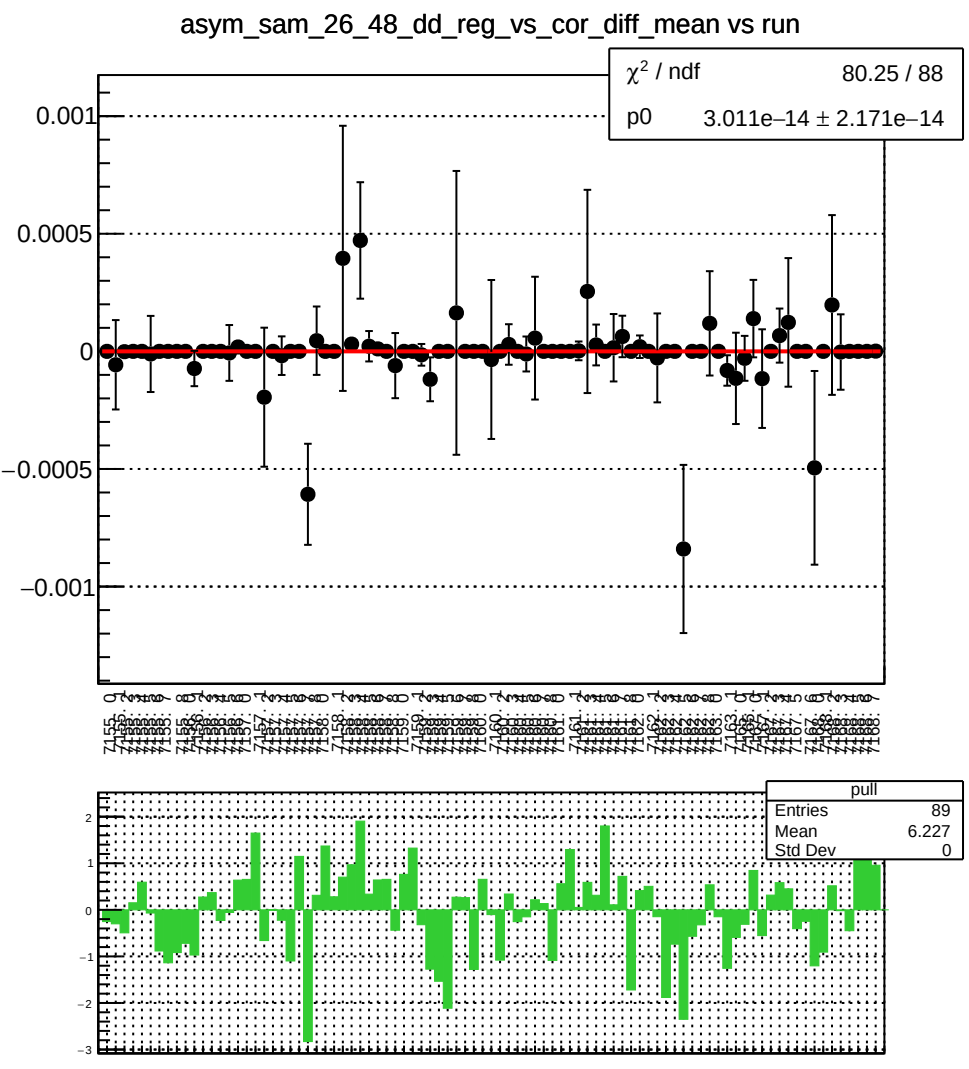

pull1D
Entries 89
Mean −0.01875
Std Dev 0.8432

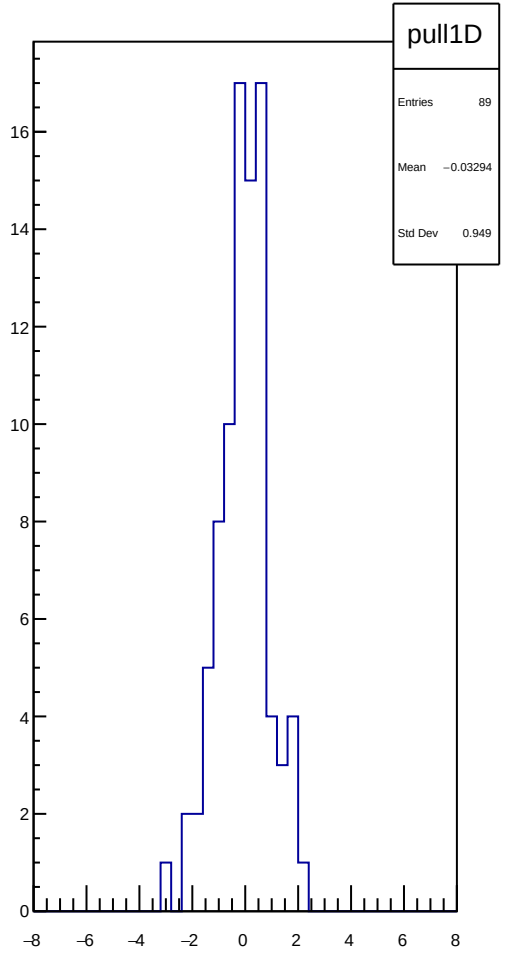

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4761 / 88
p0 540.6 ± 0.4115
620
600
580
560
540
520
500
480
460

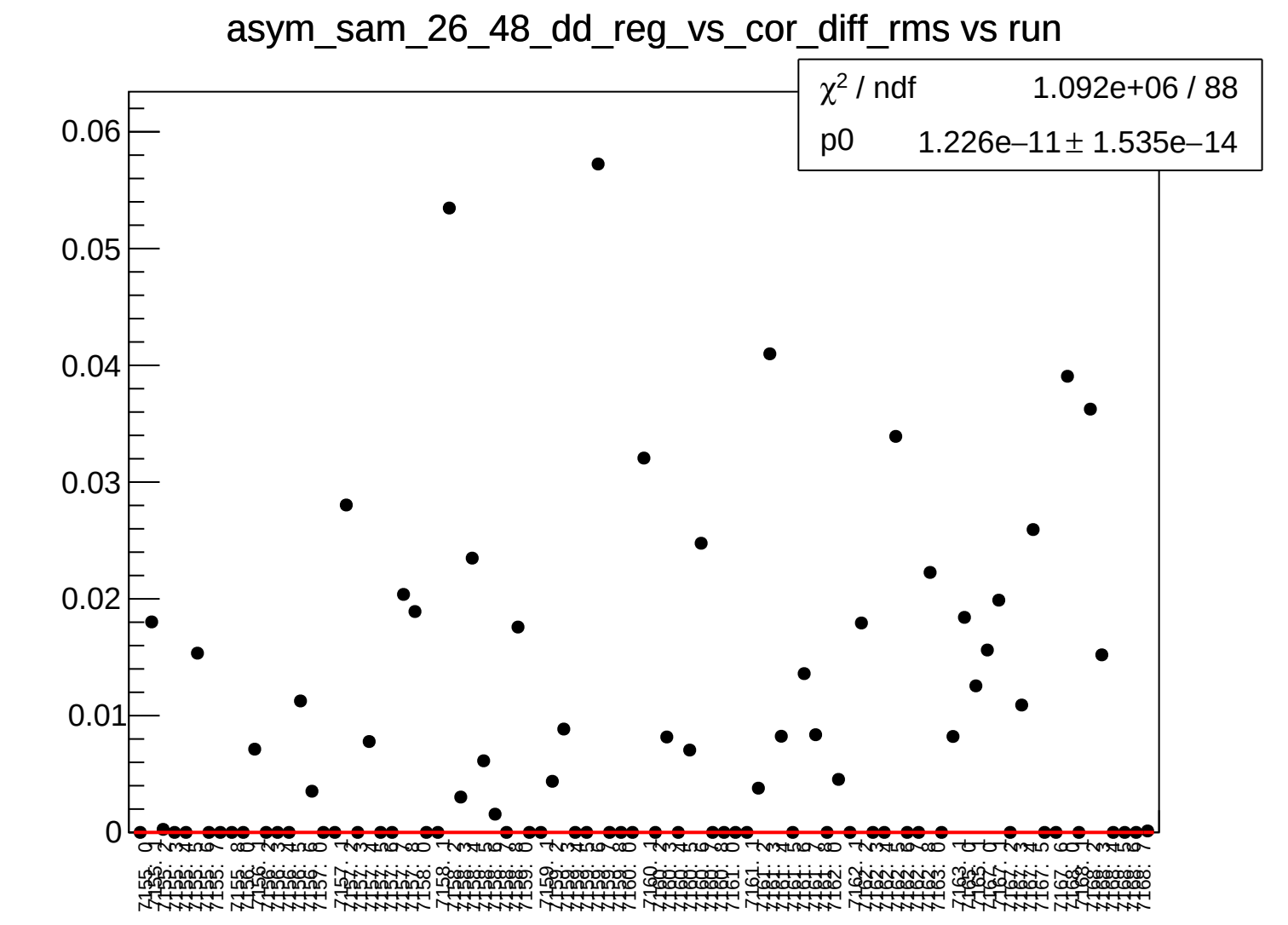

asym_sam_26_48_dd_mean vs run
χ² / ndf 63.47 / 88
p0 579 ± 561.1
pull
Entries 89
Mean −89.21
Std Dev 0

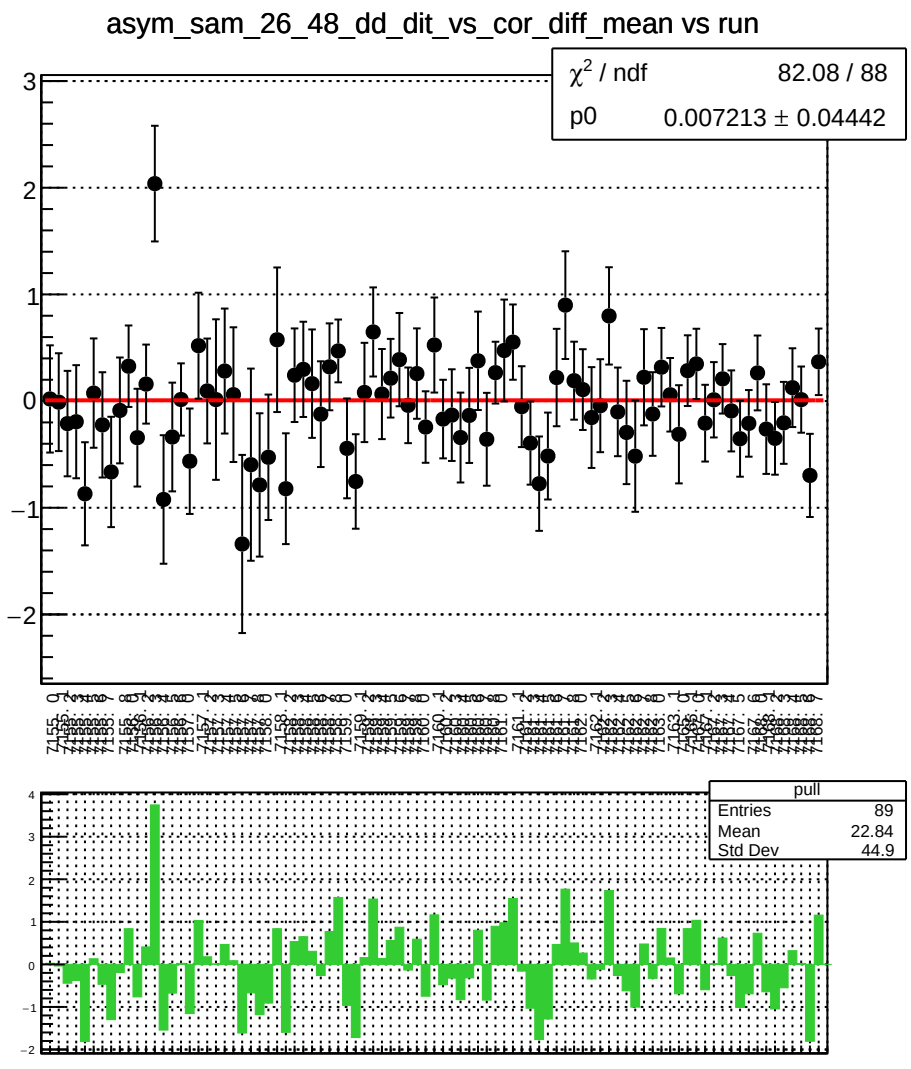

pull1D
Entries 89
Mean 0.01811
Std Dev 0.8443

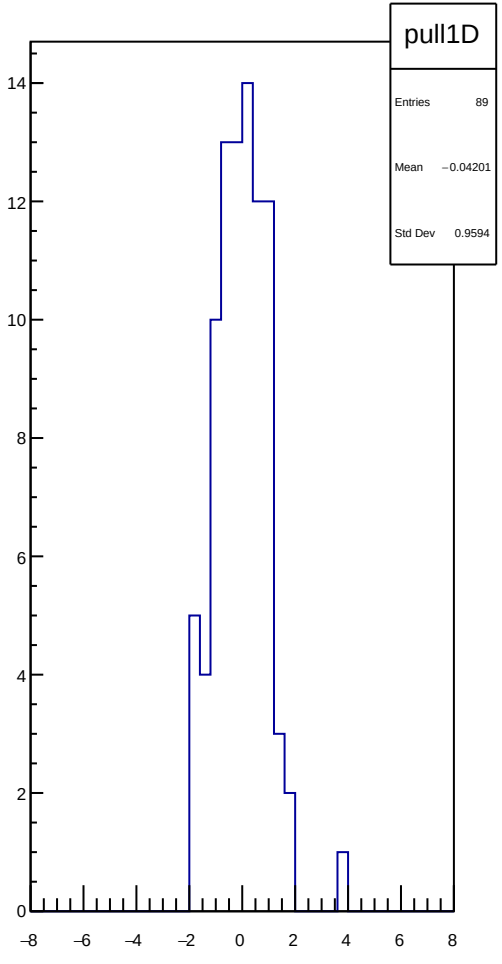

asym_sam_26_48_dd_rms vs run
χ² / ndf 5253 / 88
p0 521.1 ± 0.3968
600
580
560
540
520
500
480
460
440

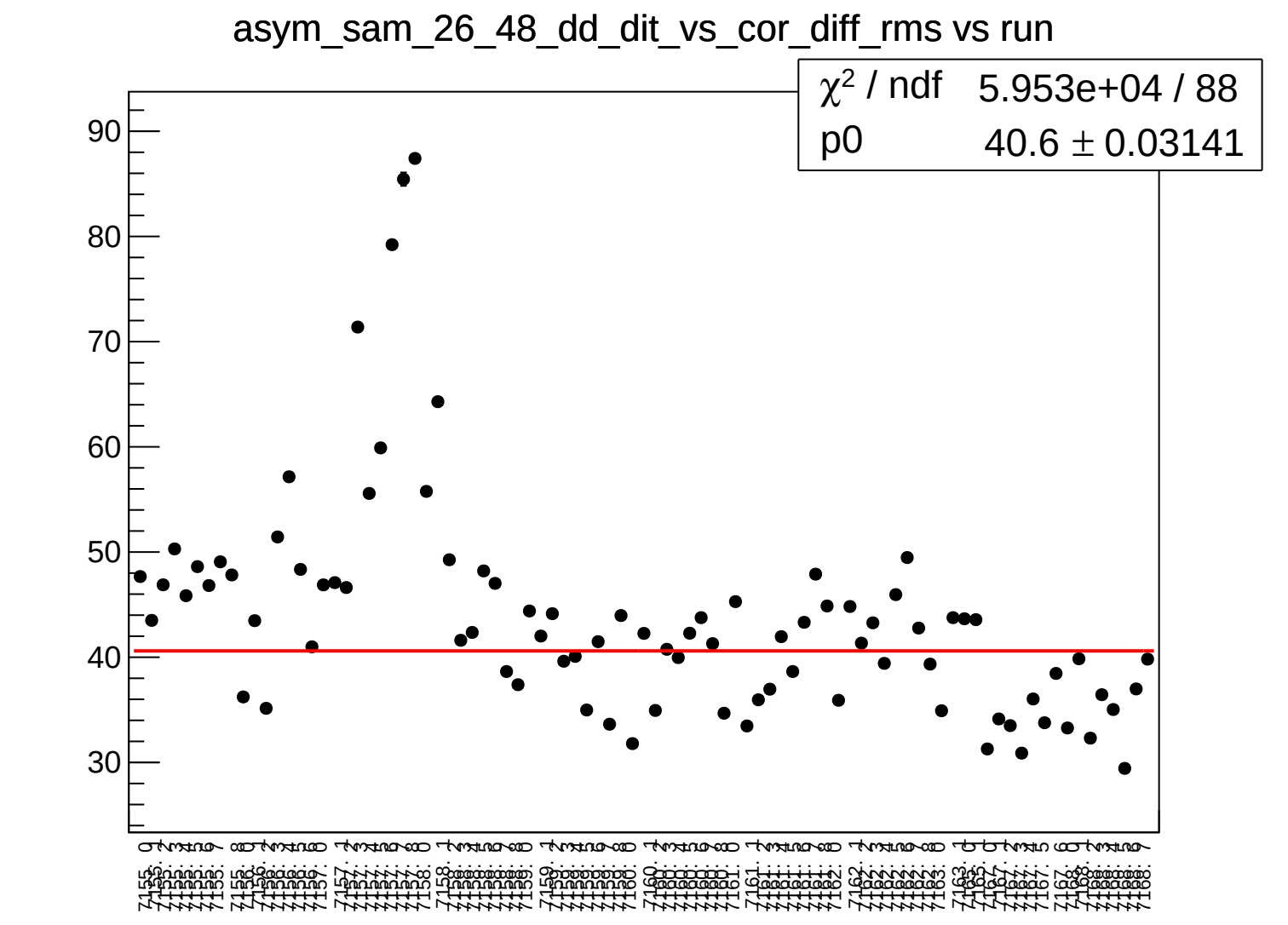

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.25 / 88
p0 3.011e−14 ± 2.171e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 6.227
Std Dev 0
2
1
0
−1
−2
−3

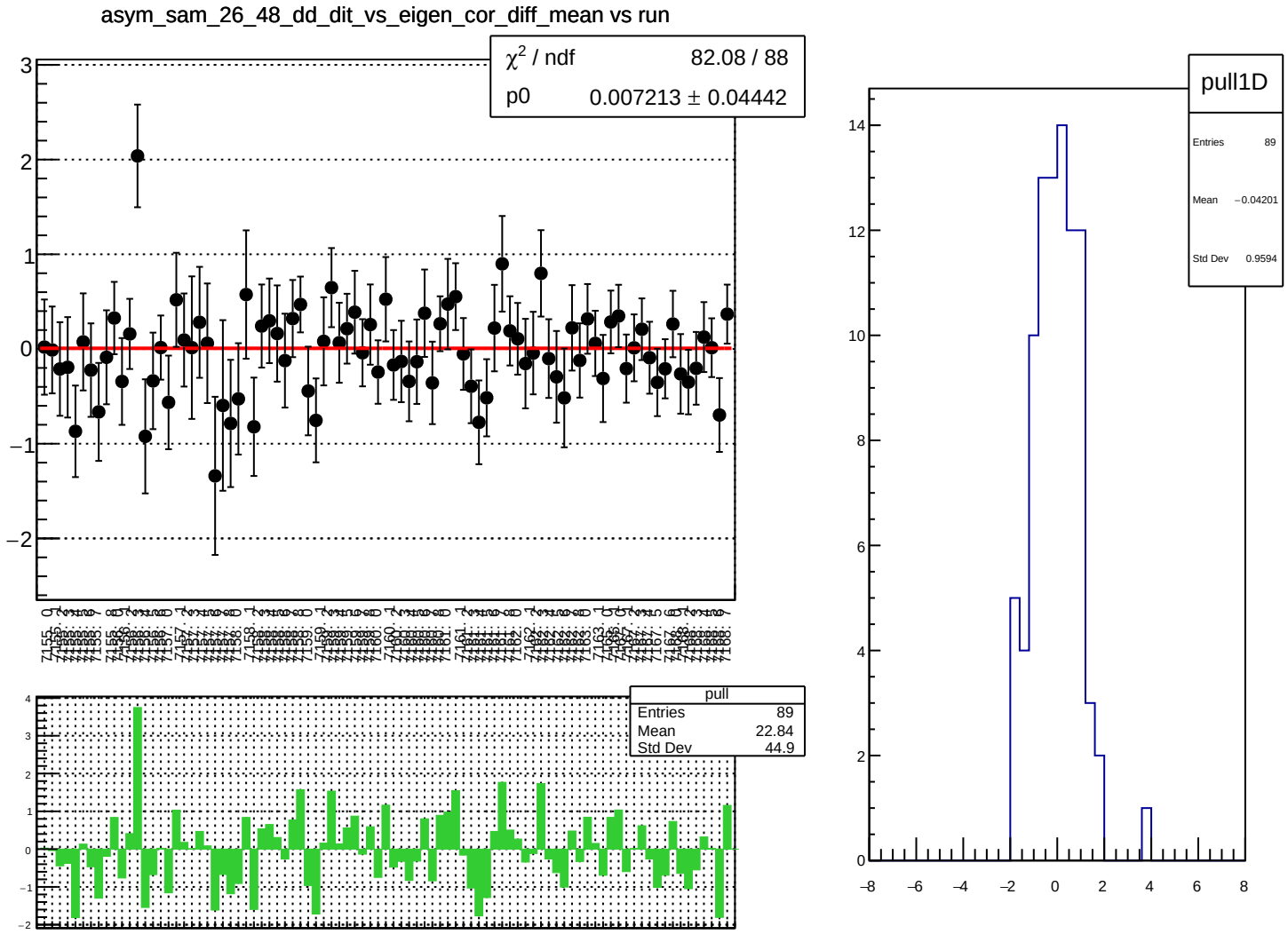

pull1D
Entries 89
Mean −0.03294
Std Dev 0.949
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

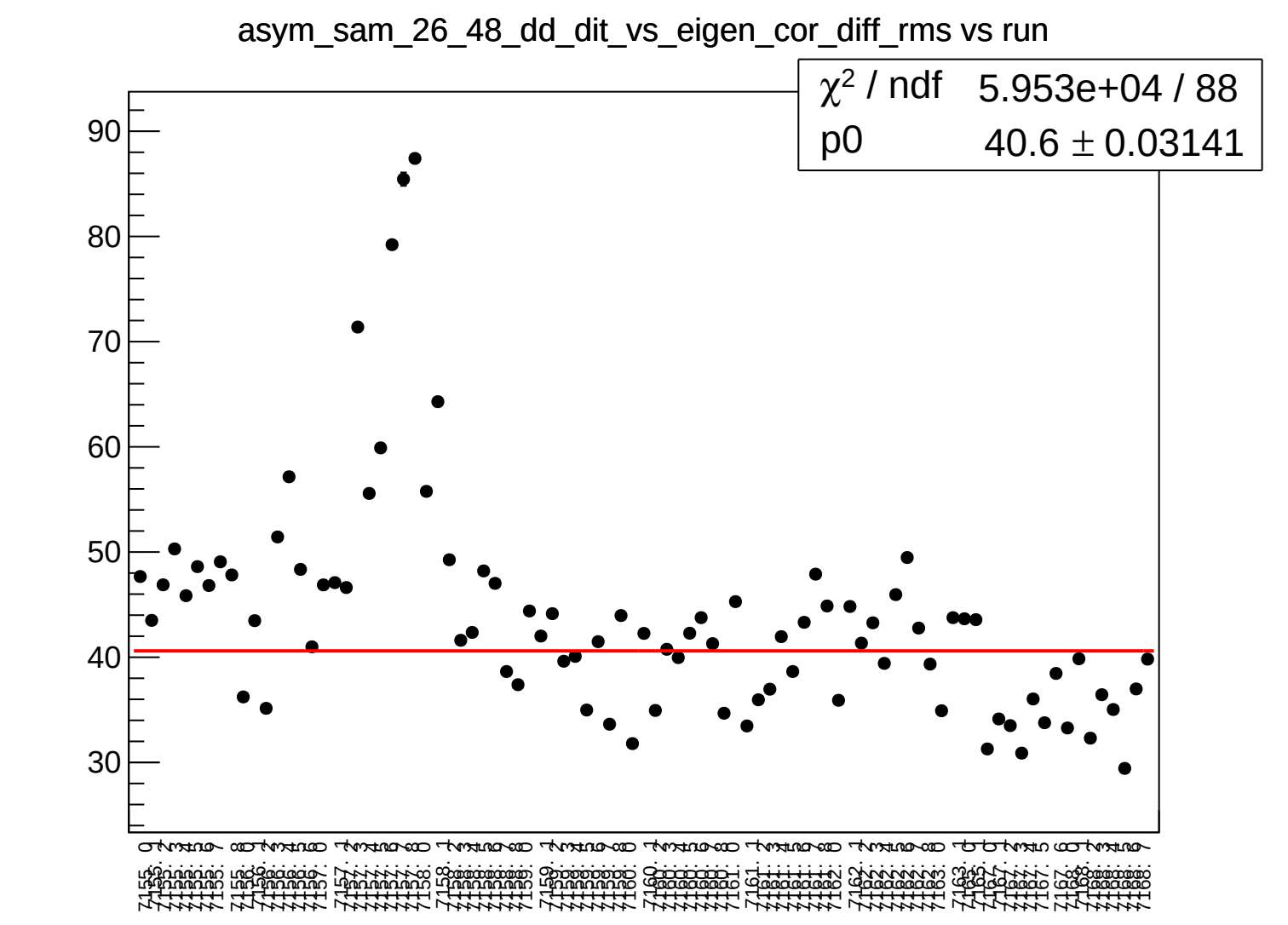

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.092e+06 / 88
p0 1.226e−11 ± 1.535e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

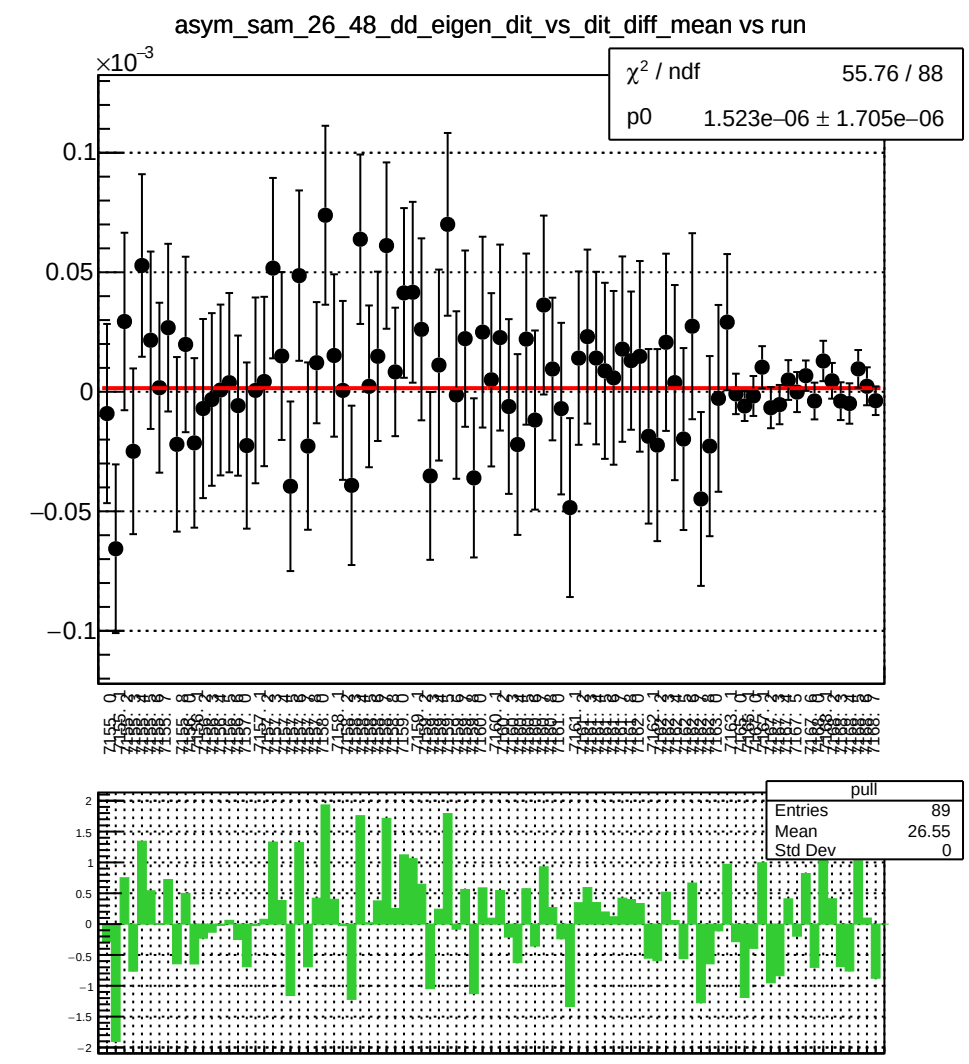

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 88
p0 0.007213 ± 0.04442
pull
Entries 89
Mean 22.84
Std Dev 44.9

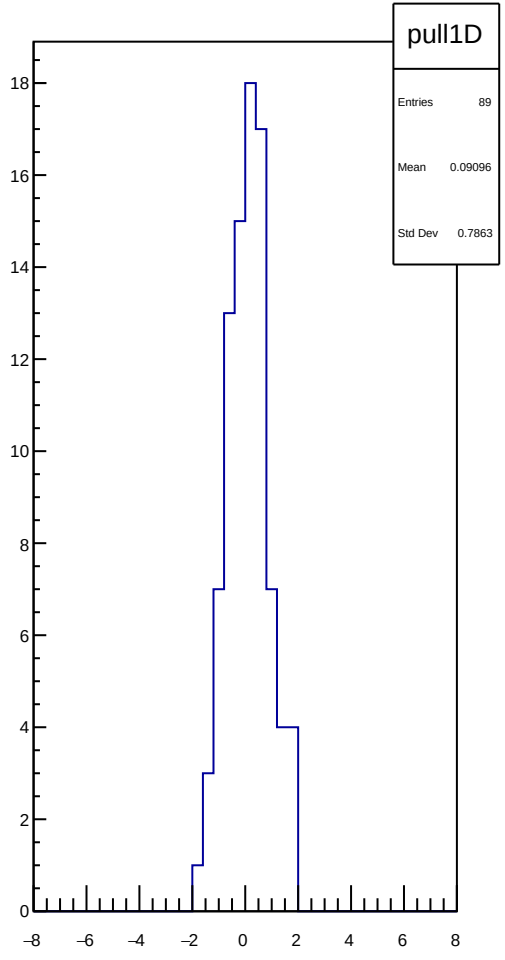

pull1D
Entries 89
Mean −0.04201
Std Dev 0.9594

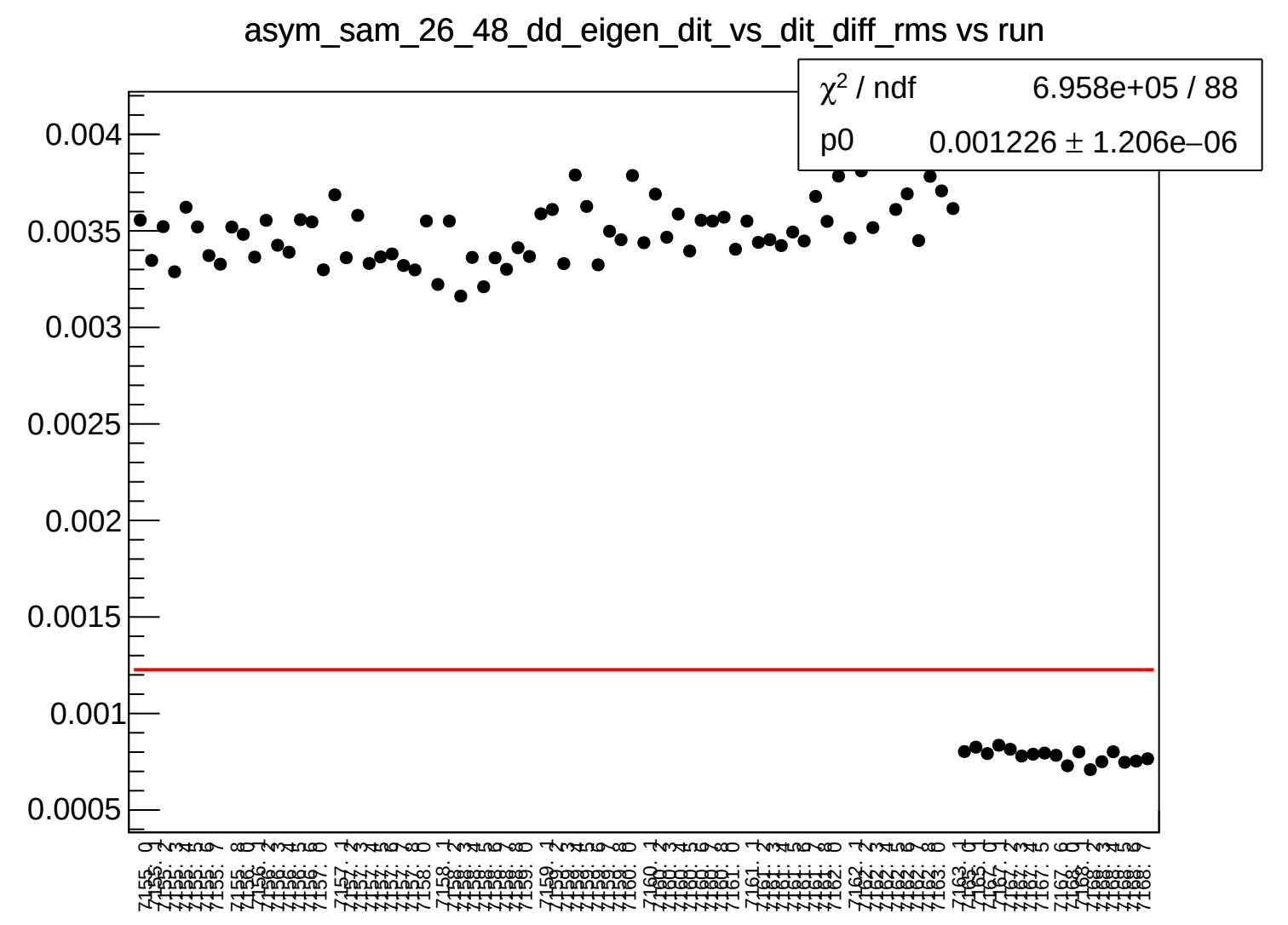

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.953e+04 / 88
p0 40.6 ± 0.03141
90
80
70
60
50
40
30

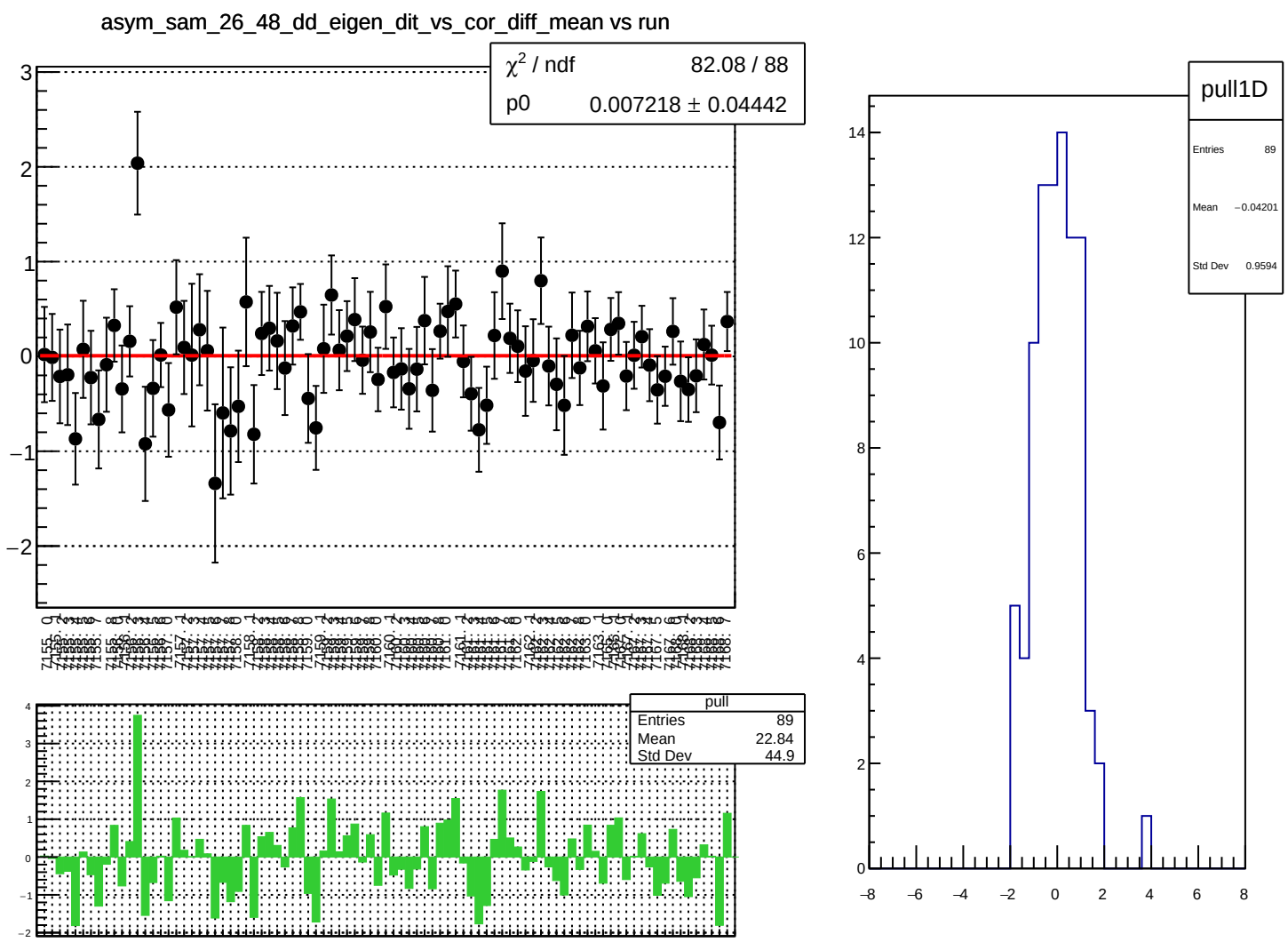

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.08 / 88
p0 0.007213 ± 0.04442
pull
Entries 89
Mean 22.84
Std Dev 44.9
pull1D
Entries 89
Mean −0.04201
Std Dev 0.9594

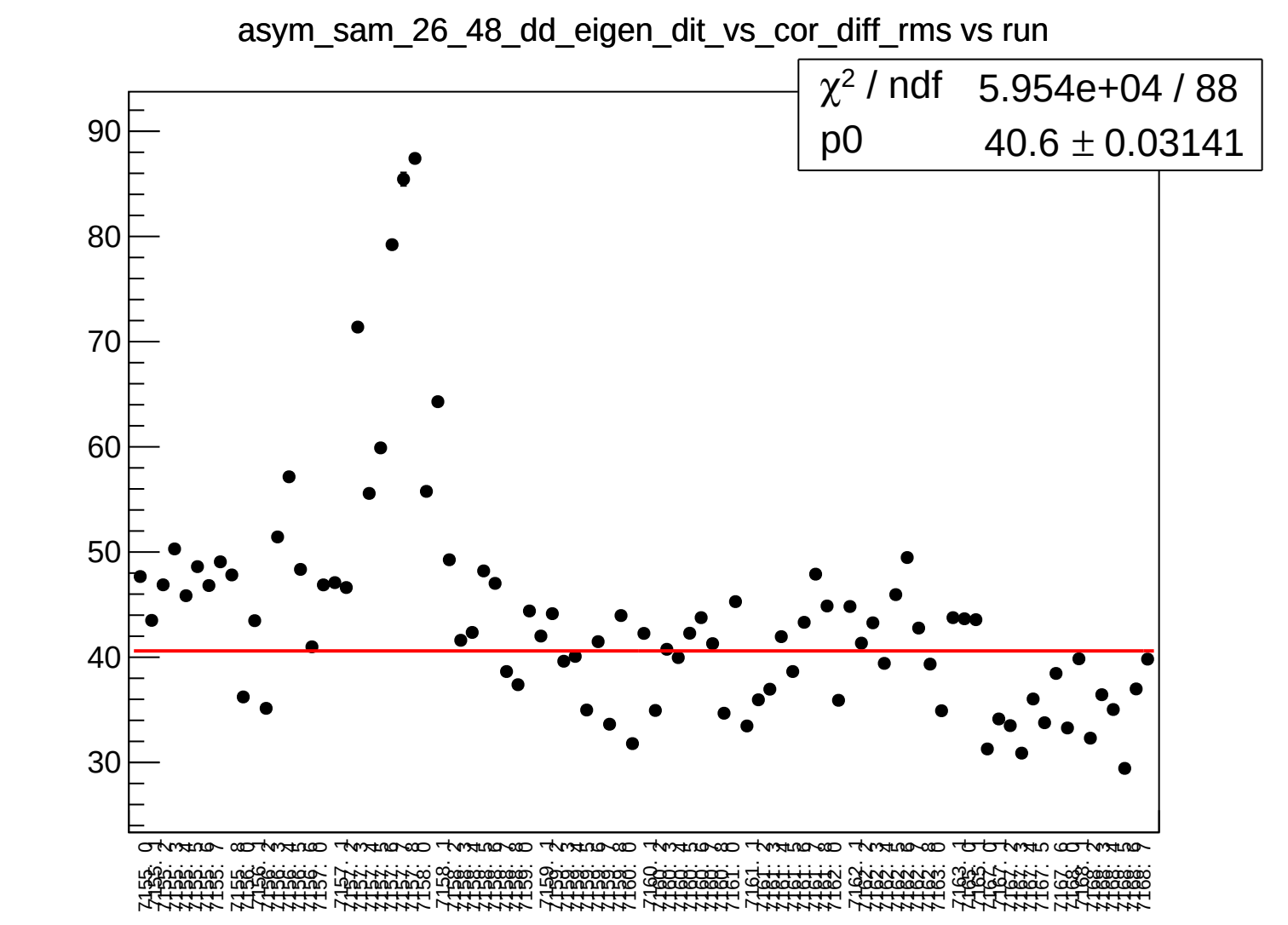

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.953e+04 / 88
p0 40.6 ± 0.03141
90
80
70
60
50
40
30

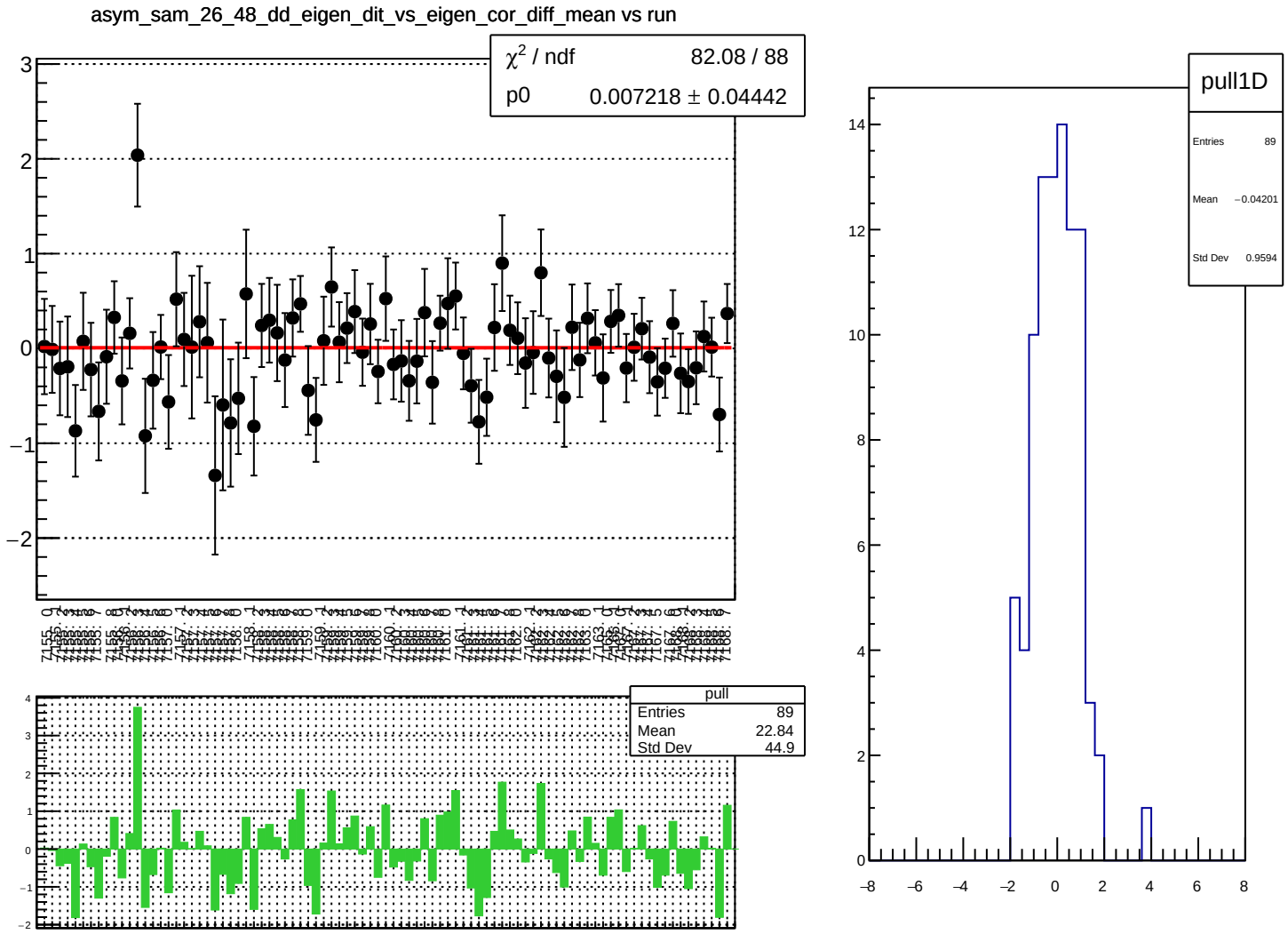

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 55.76 / 88
p0 1.523e−06 ± 1.705e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean 26.55
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

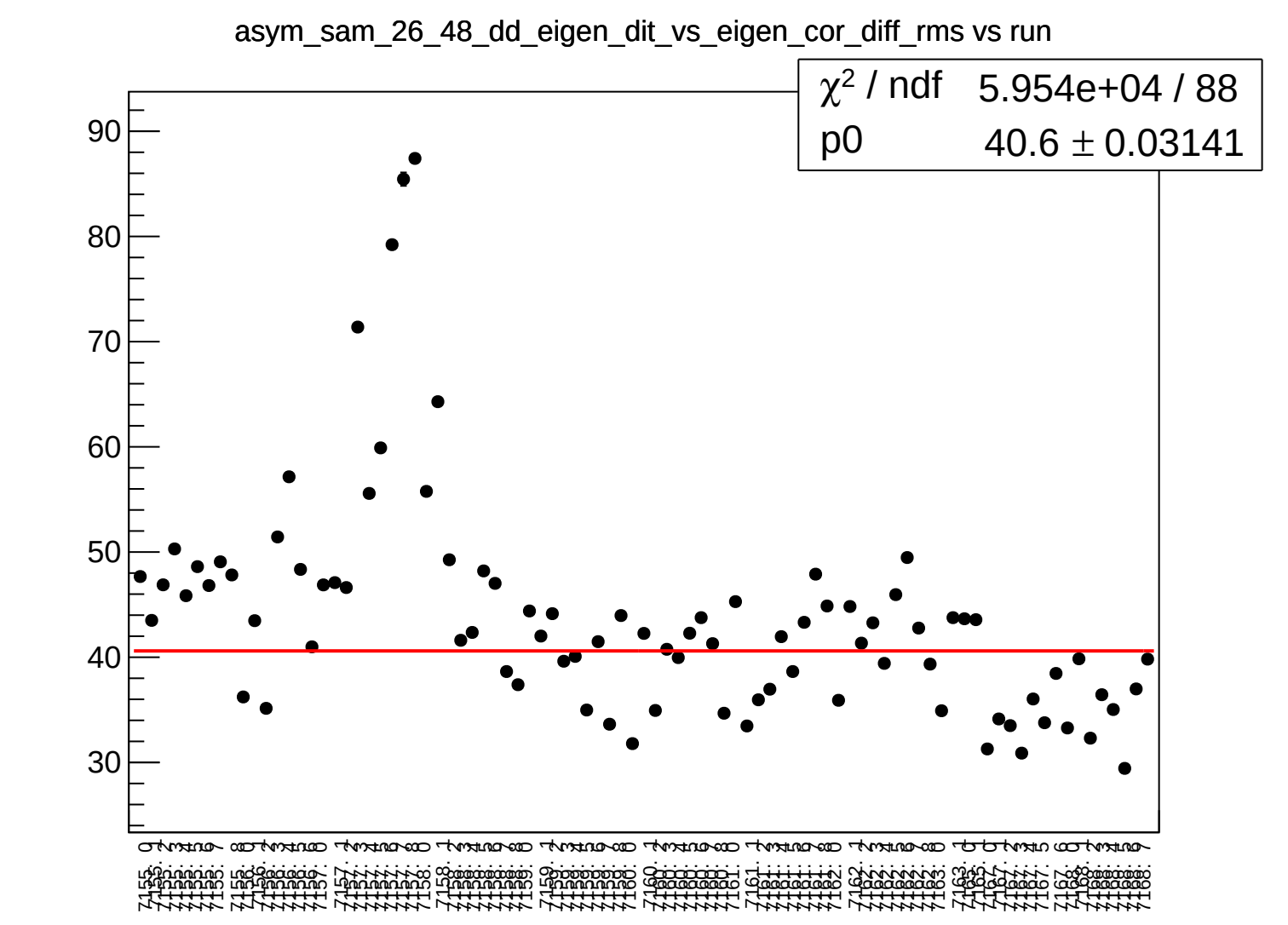

pull1D
Entries 89
Mean 0.09096
Std Dev 0.7863
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

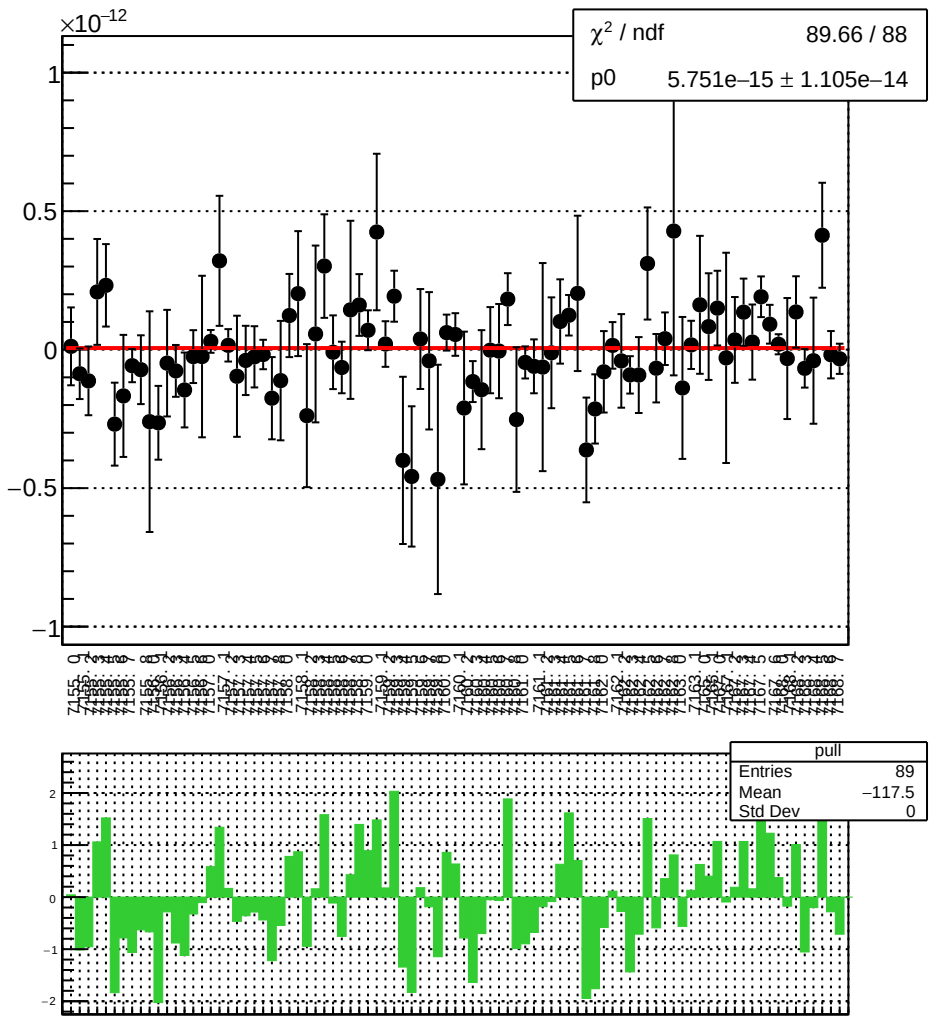

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.958e+05 / 88
p0 0.001226 ± 1.206e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

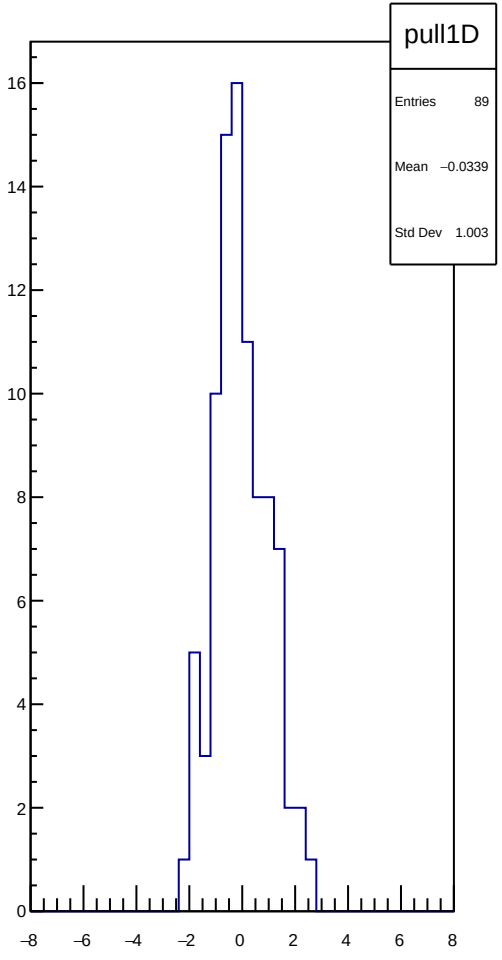

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.08 / 88
p0 0.007218 ± 0.04442
pull
Entries 89
Mean 22.84
Std Dev 44.9
pull1D
Entries 89
Mean −0.04201
Std Dev 0.9594

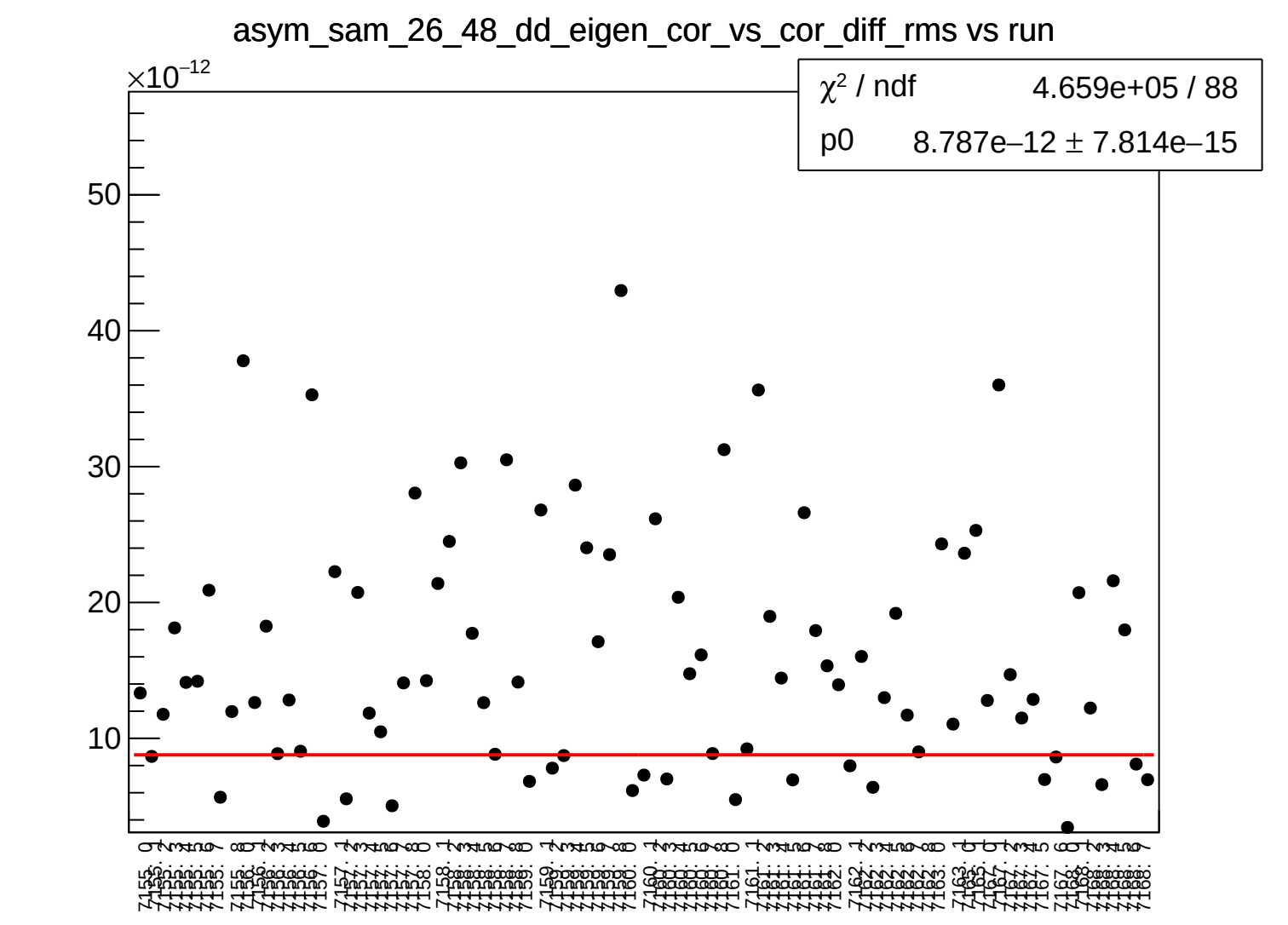

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.954e+04 / 88
p0 40.6 ± 0.03141
90
80
70
60
50
40
30

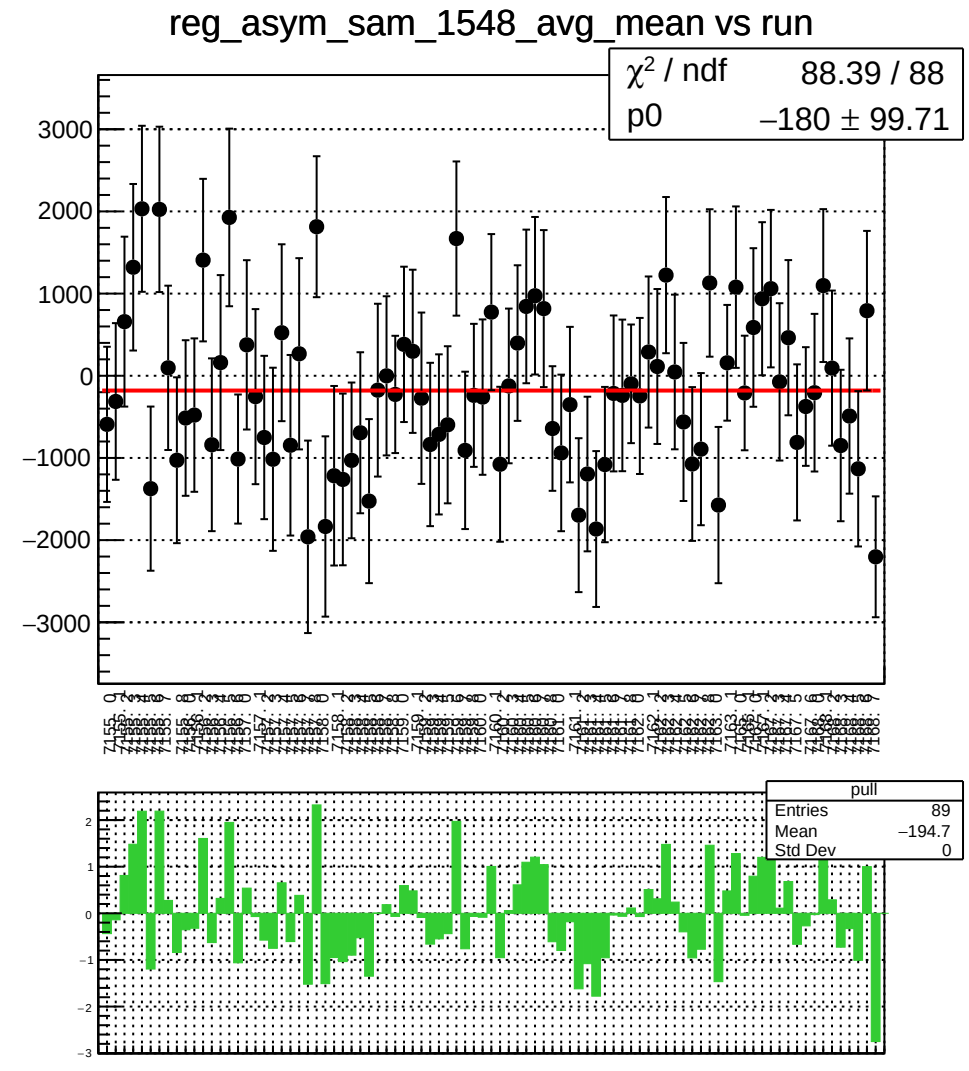

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.08 / 88
p0 0.007218 ± 0.04442
pull
Entries 89
Mean 22.84
Std Dev 44.9
pull1D
Entries 89
Mean −0.04201
Std Dev 0.9594

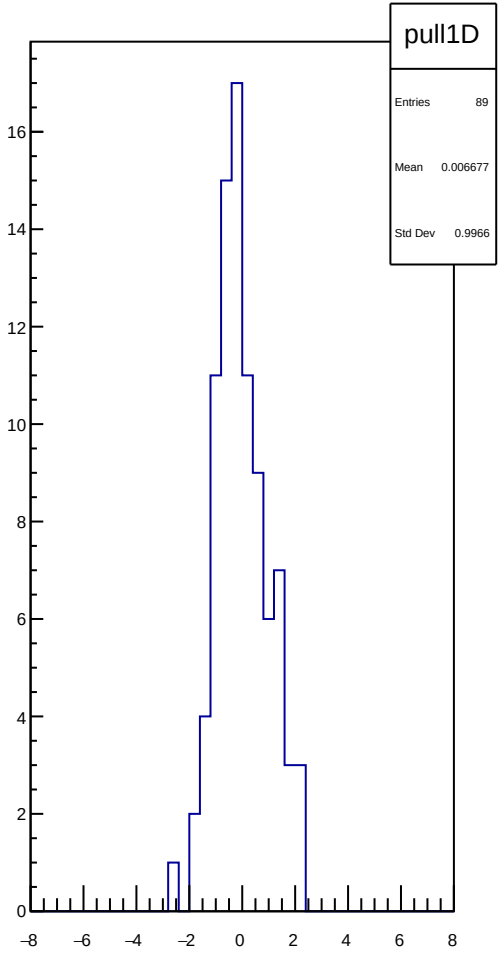

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.954e+04 / 88
p0 40.6 ± 0.03141
90
80
70
60
50
40
30

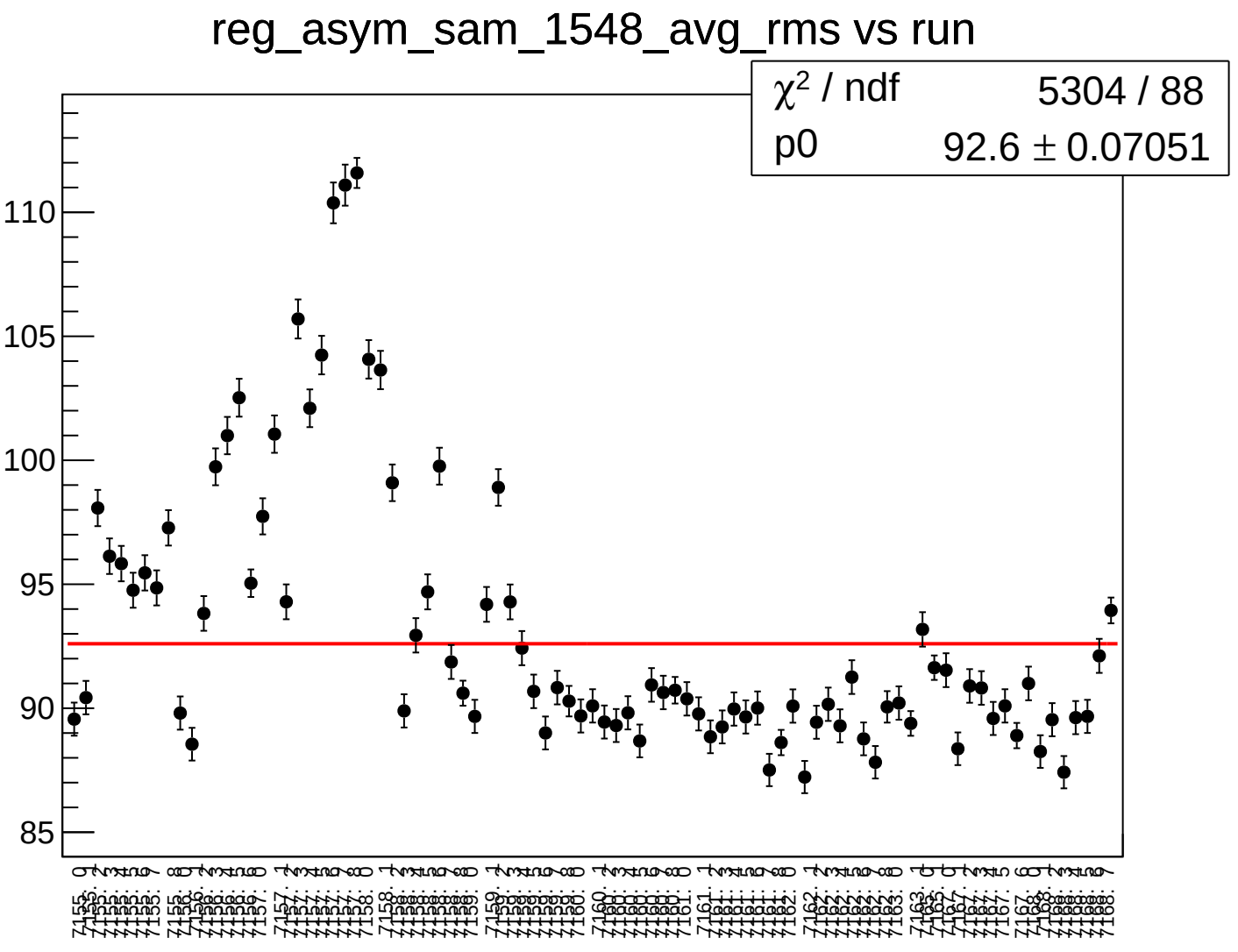

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.66 / 88
p0 5.751e−15 ± 1.105e−14
pull
Entries 89
Mean −117.5
Std Dev 0

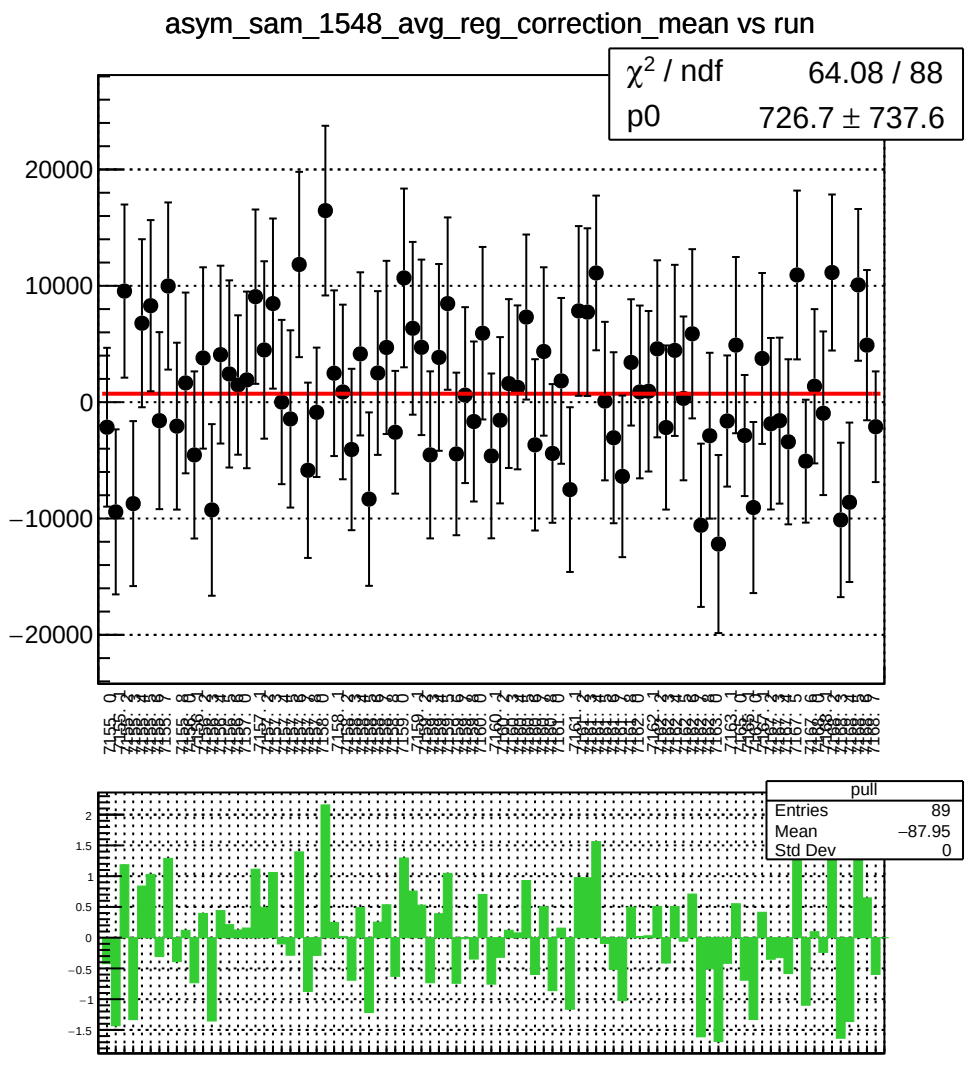

pull1D
Entries 89
Mean −0.0339
Std Dev 1.003

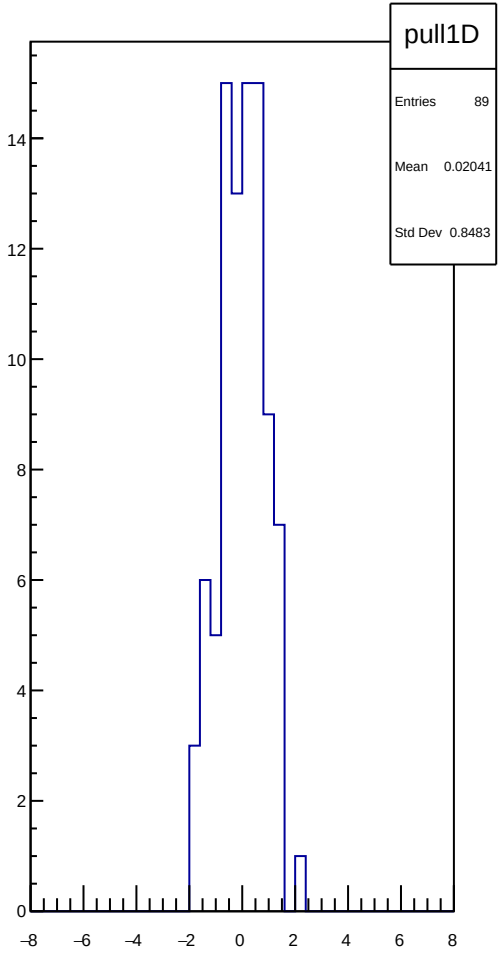

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.659e+05 / 88
p0 8.787e−12 ± 7.814e−15
50
40
30
20
10

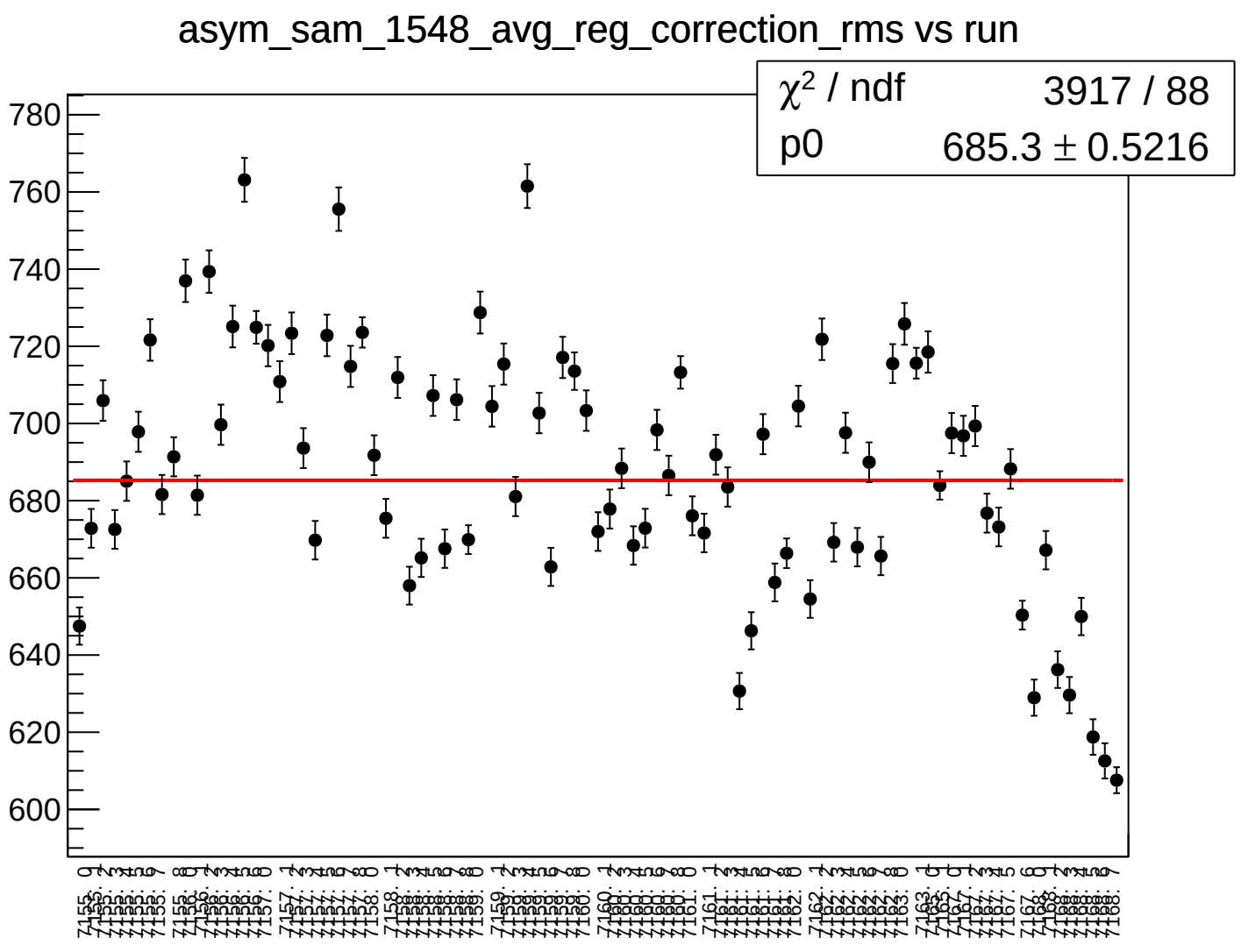

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 88.39 / 88
p0 –180 ± 99.71
pull
Entries 89
Mean –194.7
Std Dev 0

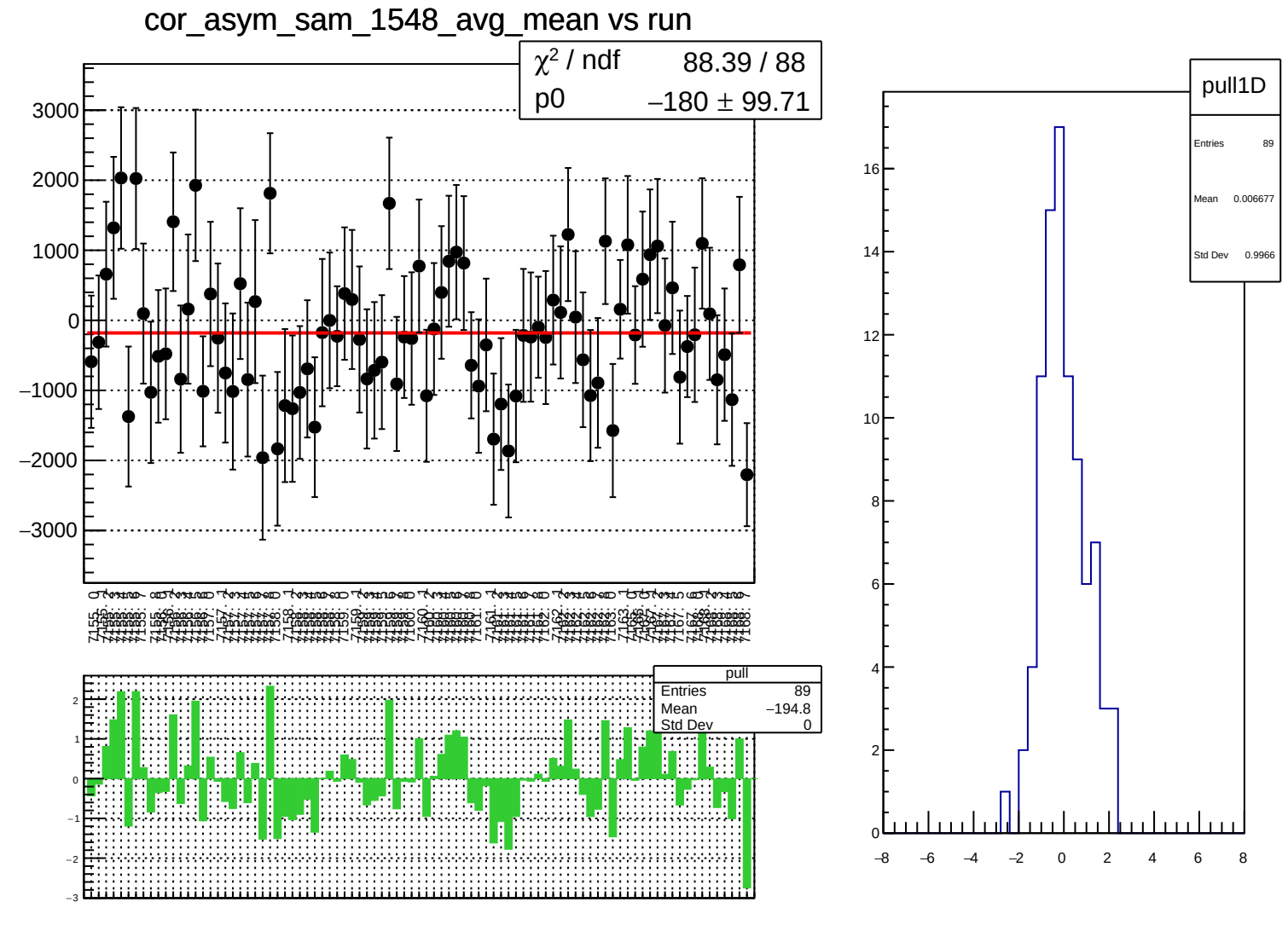

pull1D
Entries 89
Mean 0.006677
Std Dev 0.9966

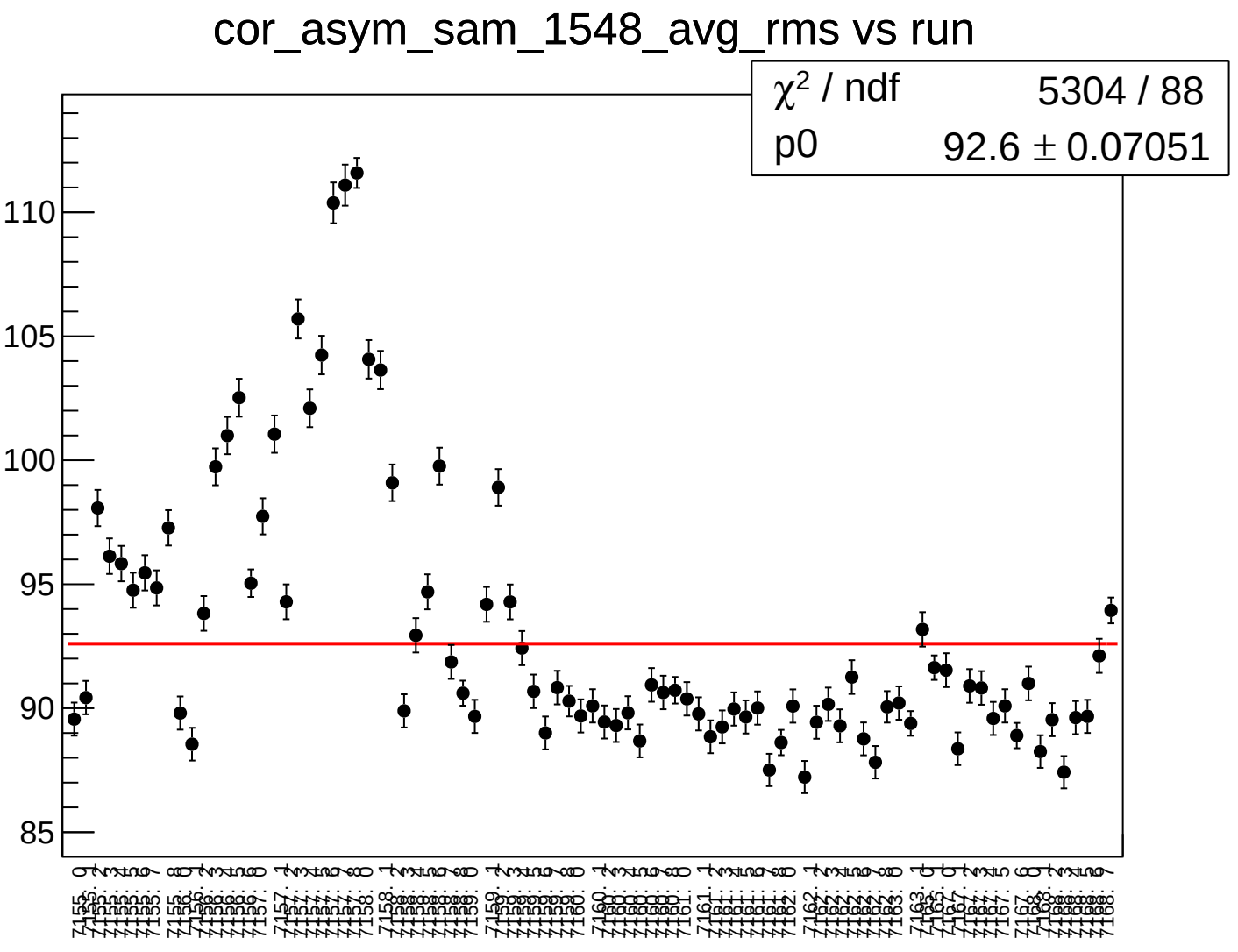

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 5304 / 88
p0 92.6 ± 0.07051
110
105
100
95
90
85

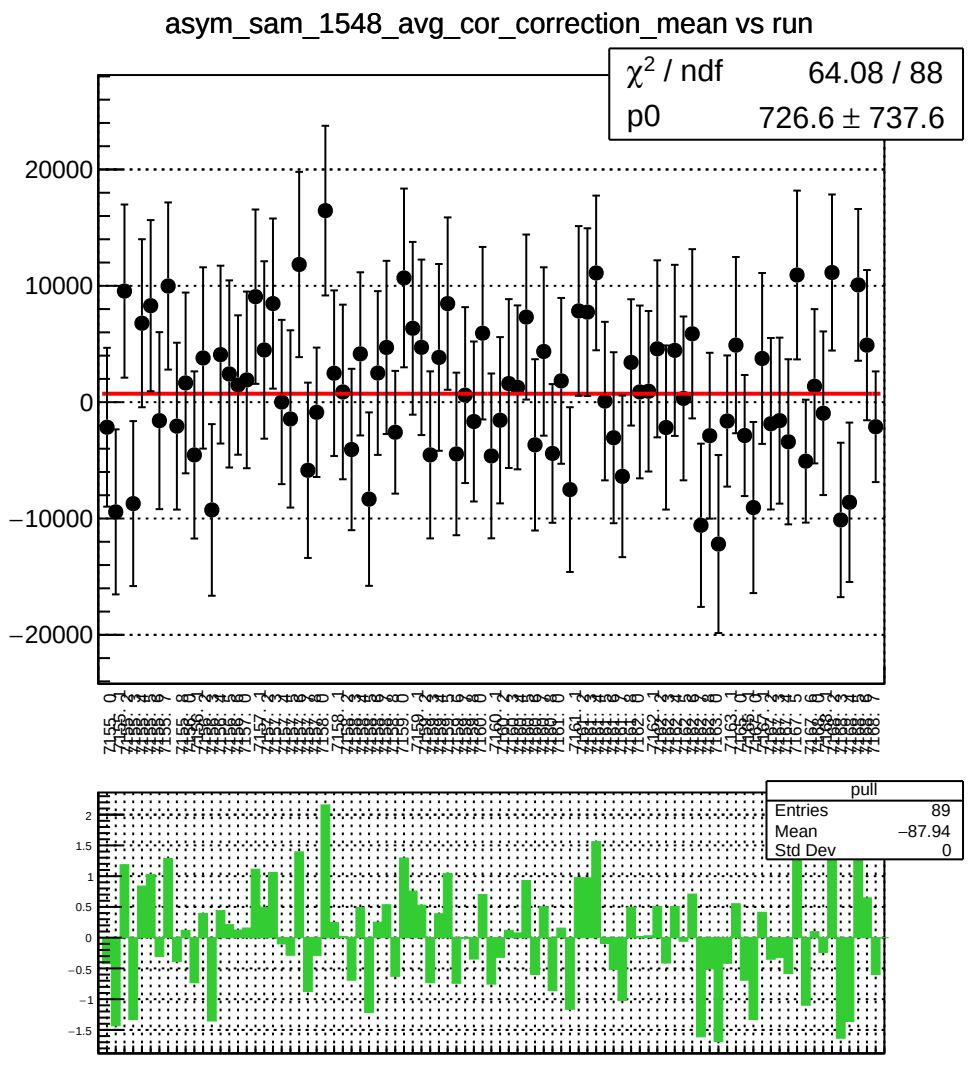

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 64.08 / 88
p0 726.7 ± 737.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −87.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

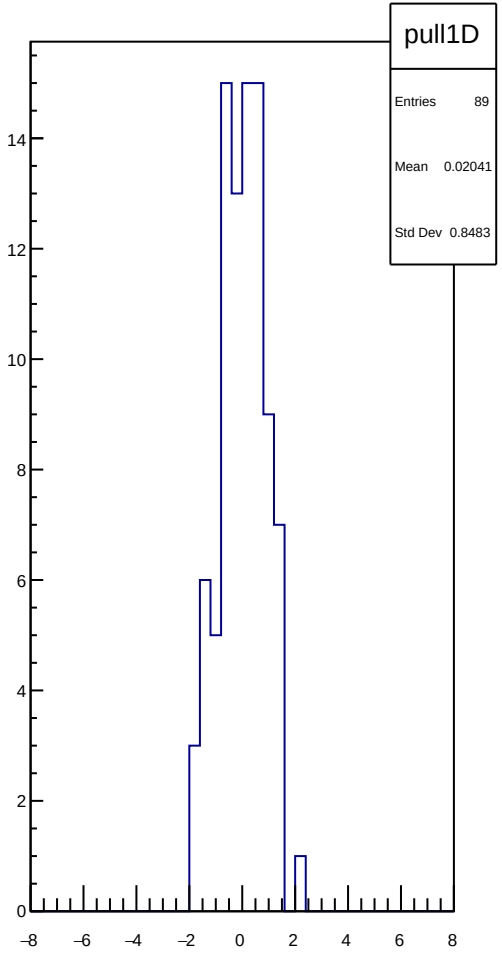

pull1D
Entries 89
Mean 0.02041
Std Dev 0.8483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

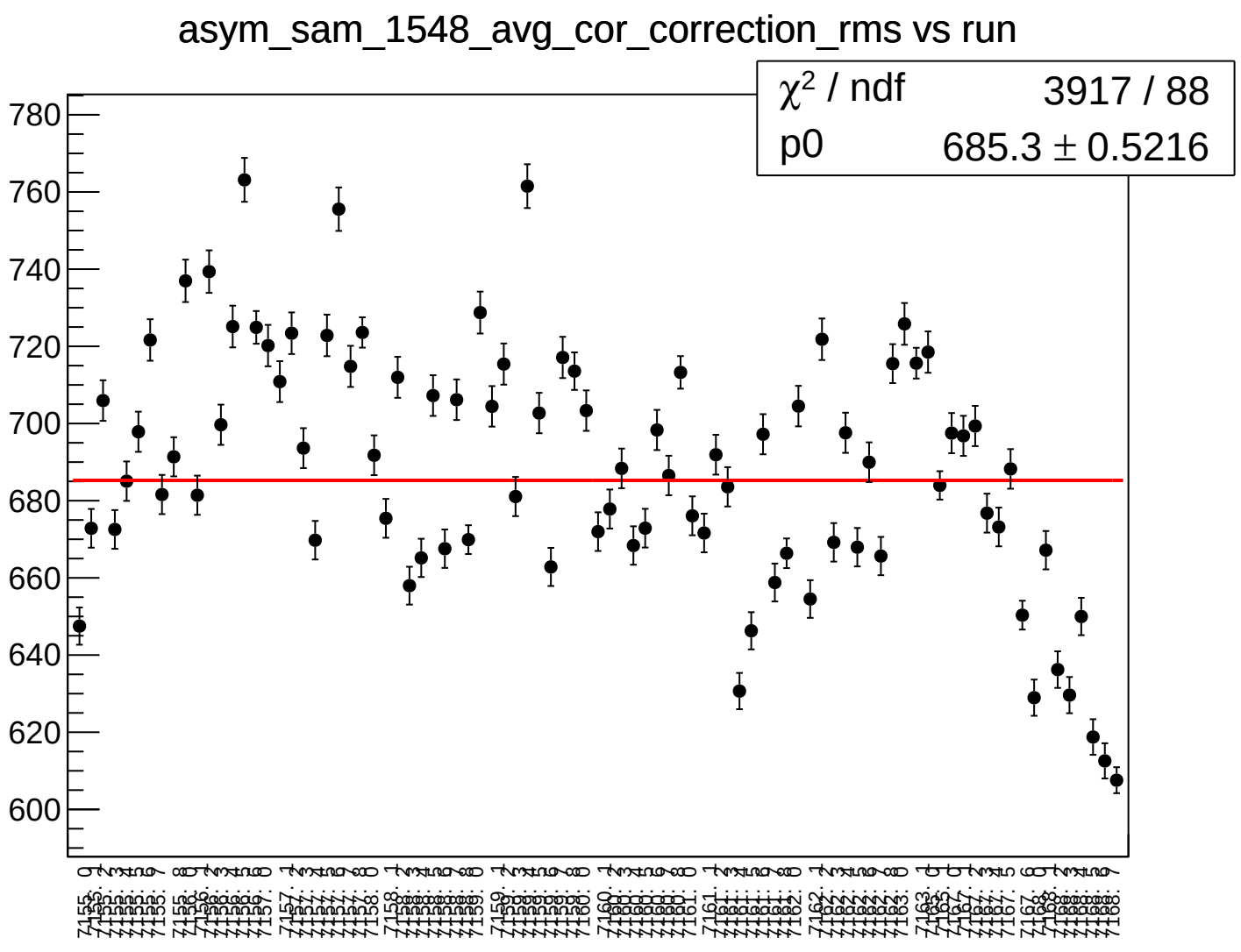

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 3917 / 88
p0 685.3 ± 0.5216
780
760
740
720
700
680
660
640
620
600

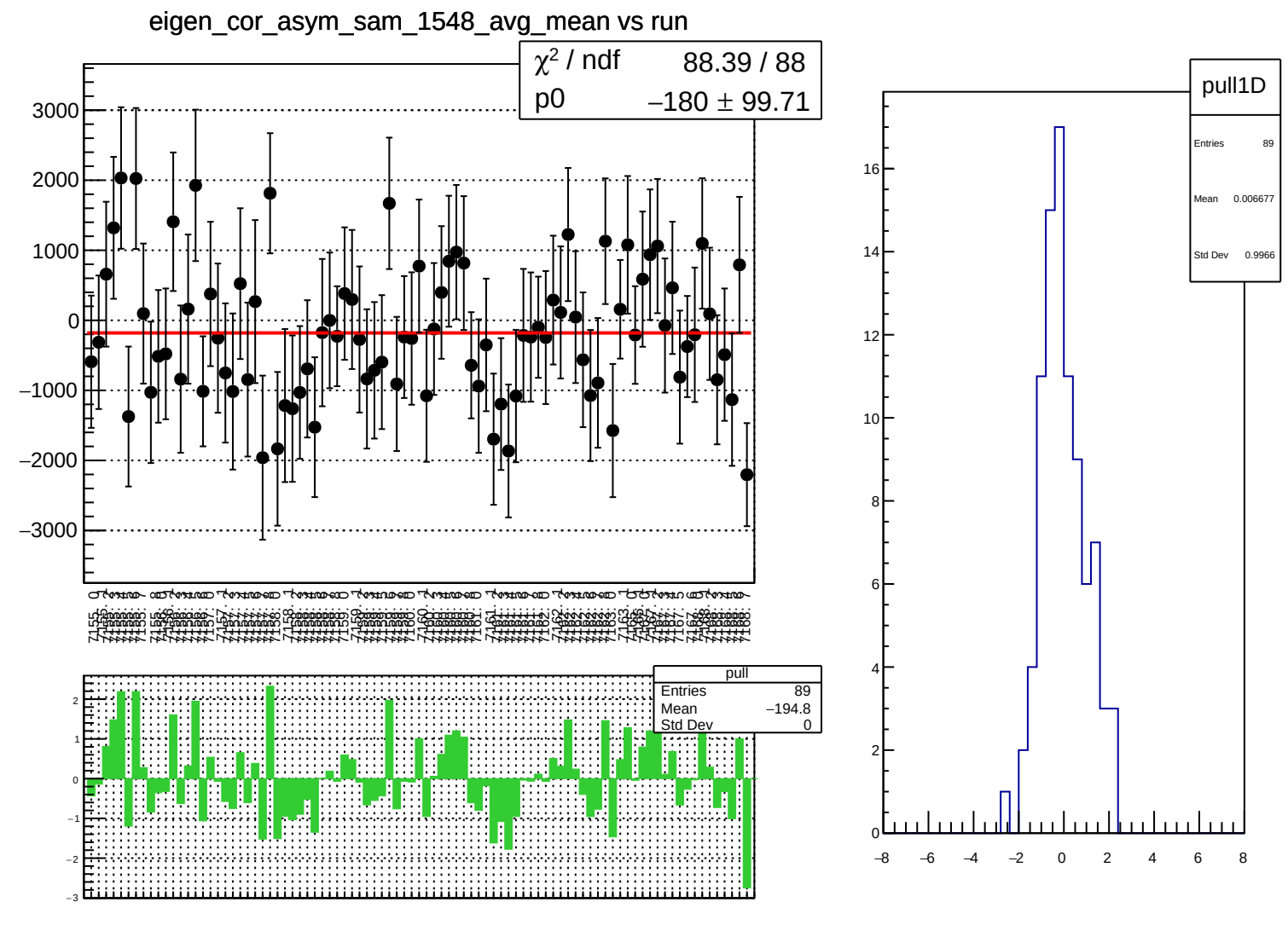

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 88.39 / 88
p0 −180 ± 99.71
pull
Entries 89
Mean −194.8
Std Dev 0
pull1D
Entries 89
Mean 0.006677
Std Dev 0.9966

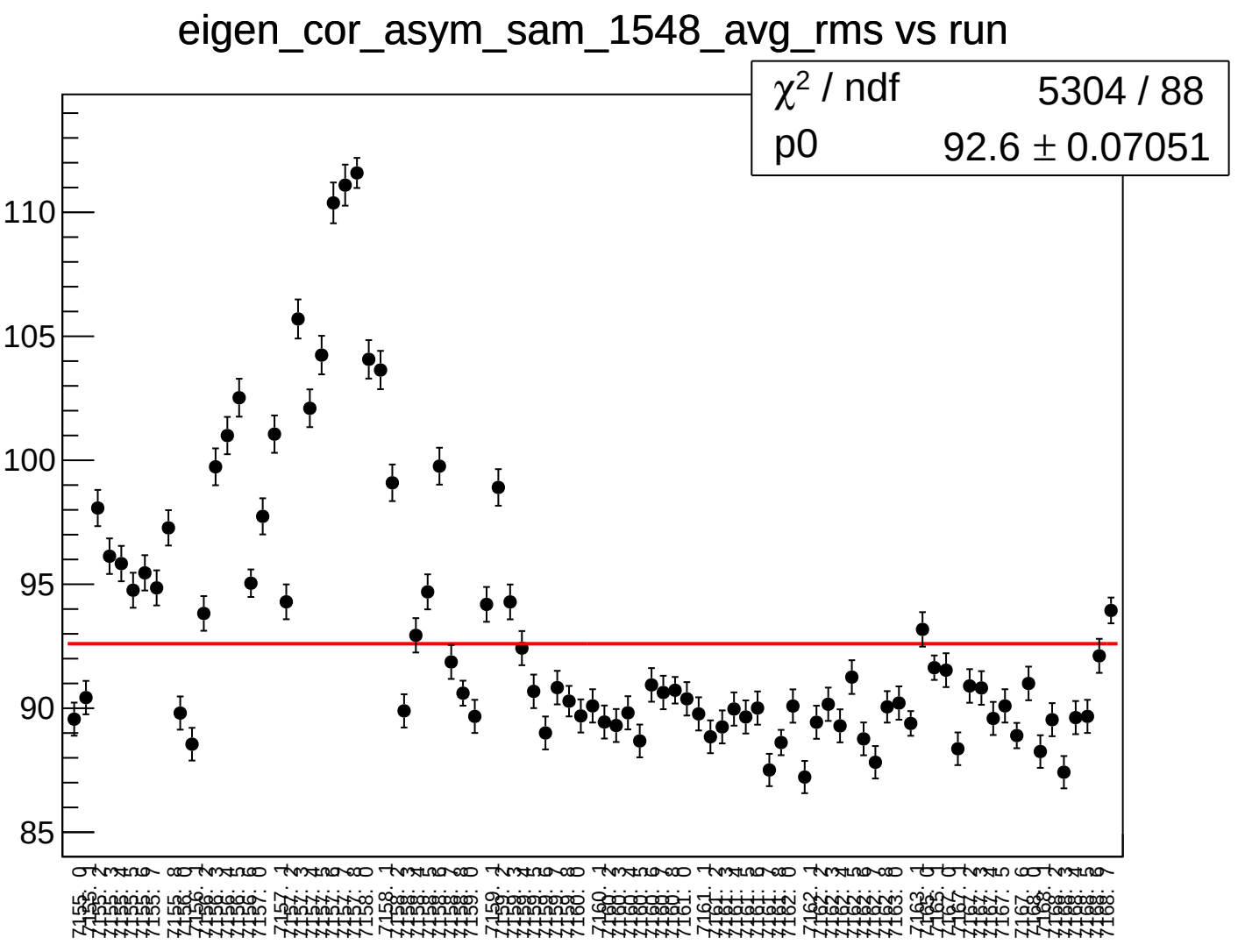

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5304 / 88
p0 92.6 ± 0.07051
110
105
100
95
90
85

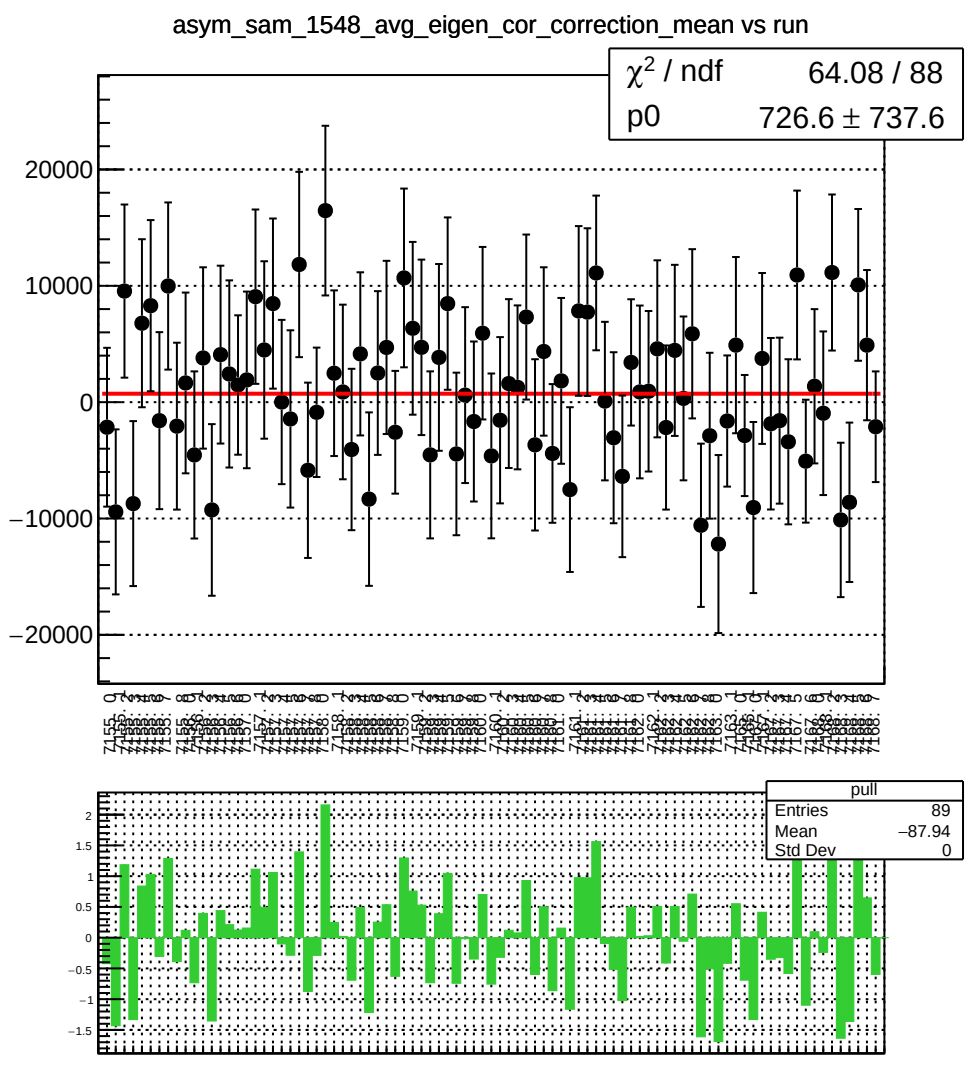

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 64.08 / 88
p0 726.6 ± 737.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −87.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

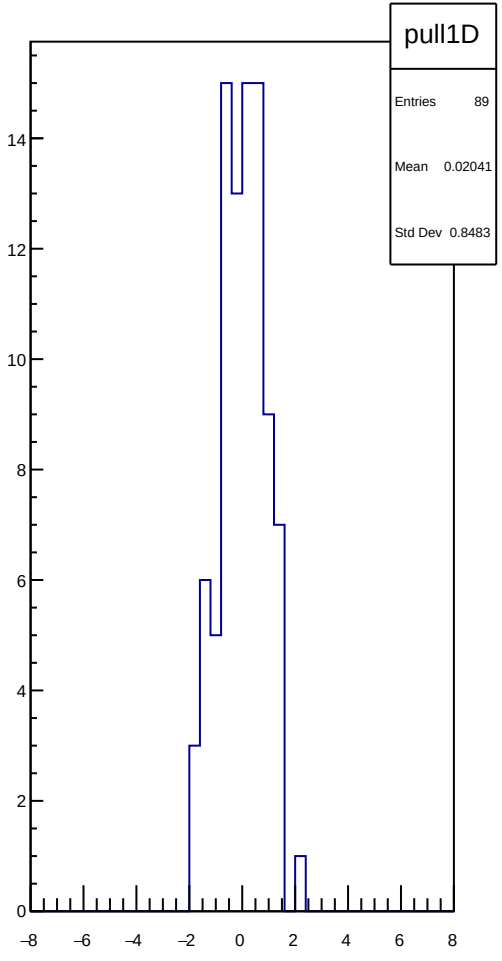

pull1D
Entries 89
Mean 0.02041
Std Dev 0.8483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

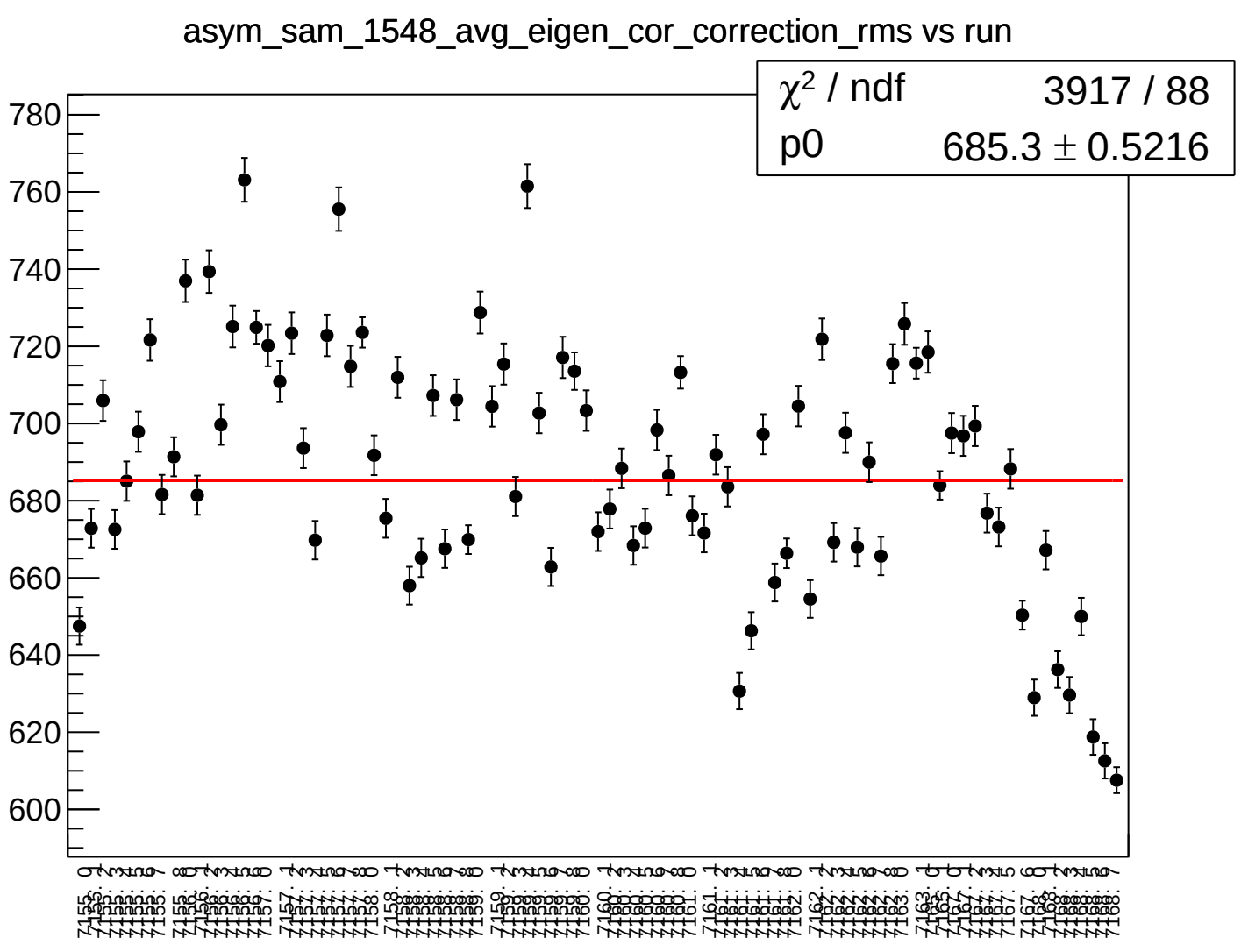

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 3917 / 88
p0 685.3 ± 0.5216
780
760
740
720
700
680
660
640
620
600

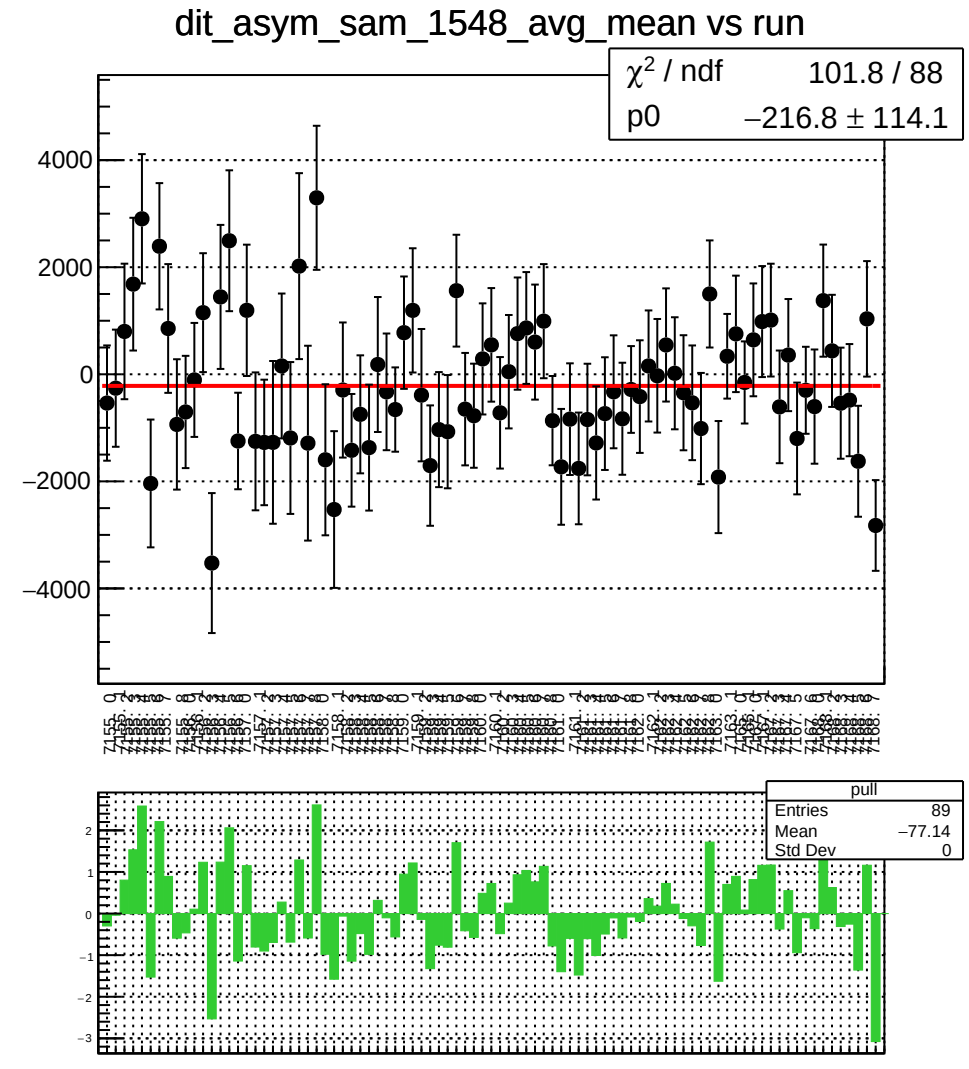

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 88.39 / 88
p0 −180 ± 99.71
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −194.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.006677
Std Dev 0.9966
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

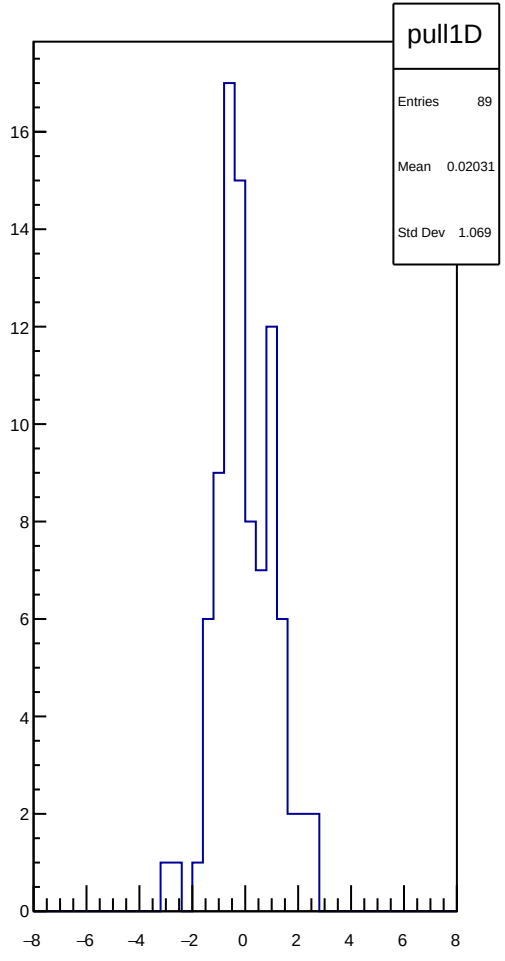

eigen_cor_asym_sam_1548_avg_rms vs run
χ² / ndf 5304 / 88
p0 92.6 ± 0.07051
110
105
100
95
90
85

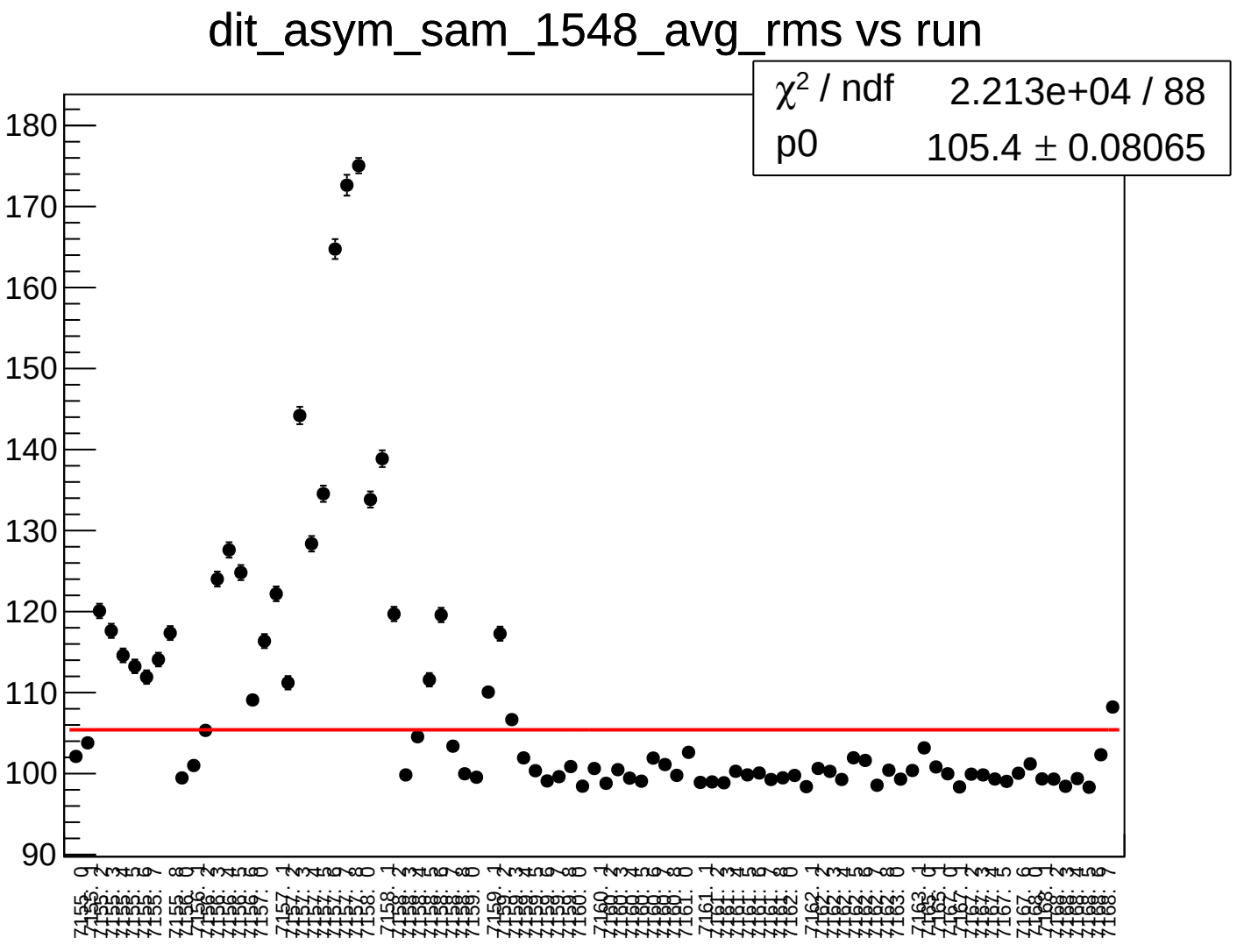

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.08 / 88
p0 726.6 ± 737.6
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −87.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

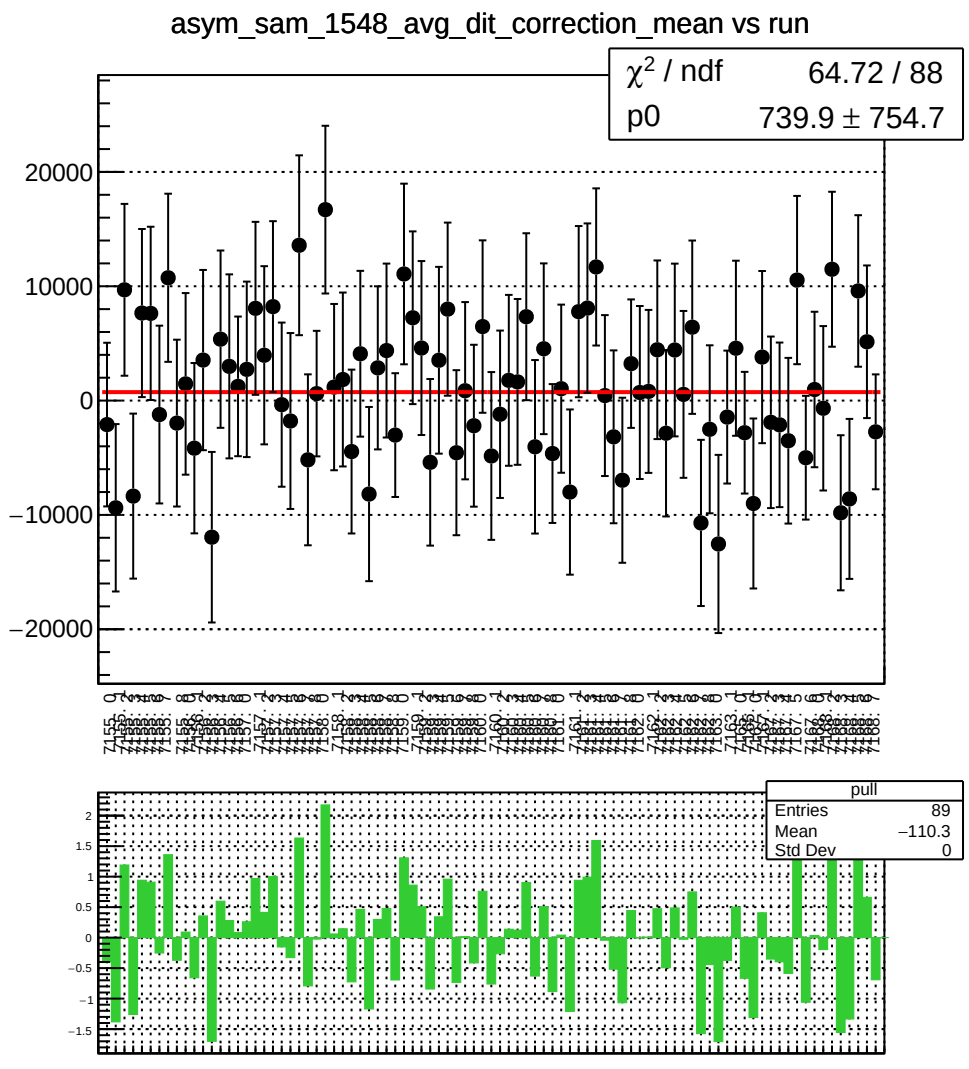

pull1D
Entries 89
Mean 0.02041
Std Dev 0.8483
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

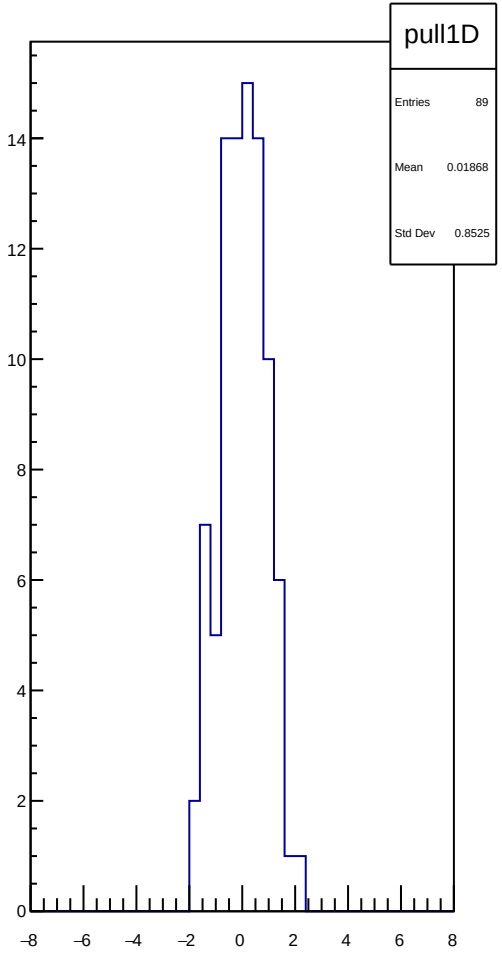

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 3917 / 88
p0 685.3 ± 0.5216
780
760
740
720
700
680
660
640
620
600

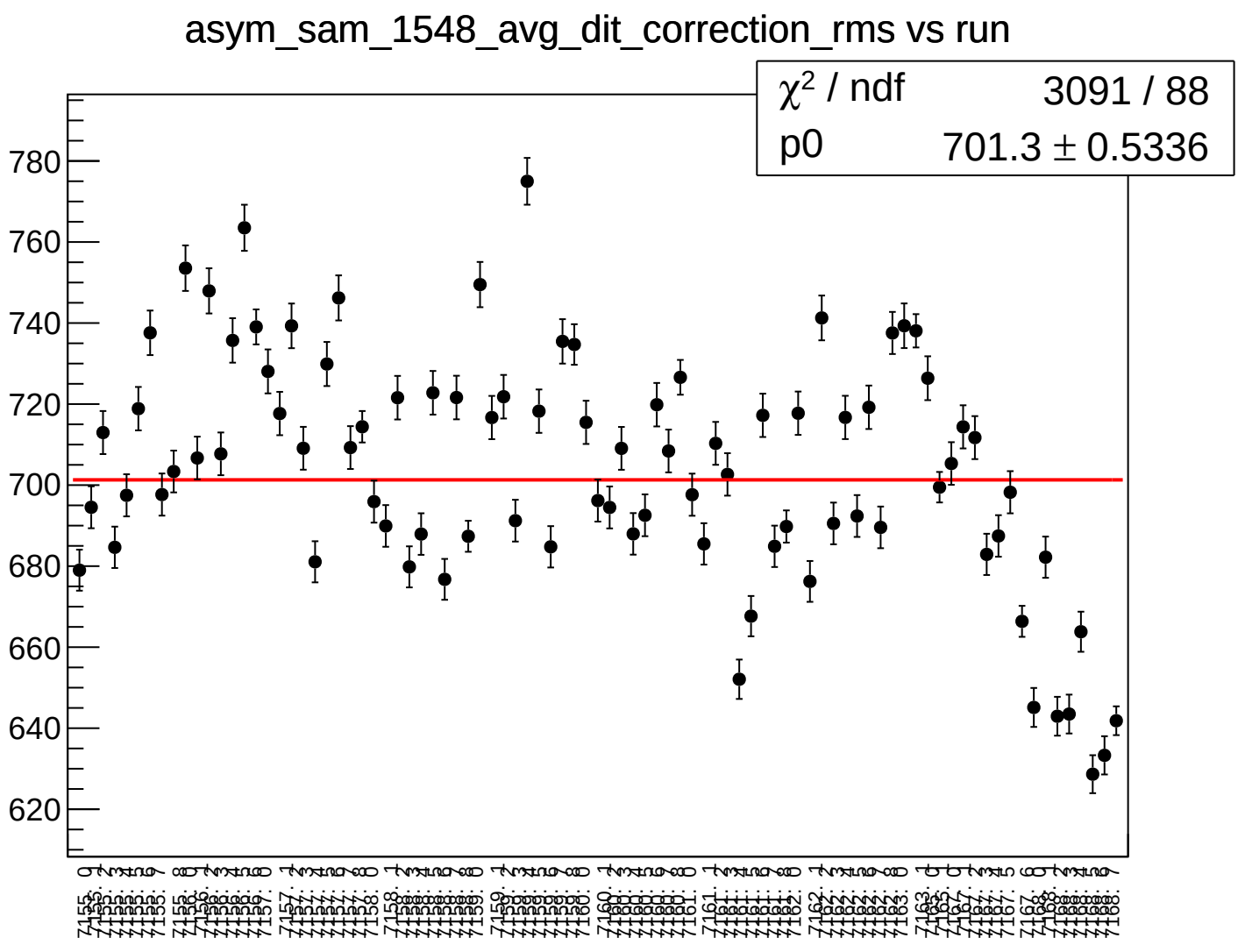

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 101.8 / 88
p0 −216.8 ± 114.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −77.14
Std Dev 0
2
1
0
−1
−2
−3

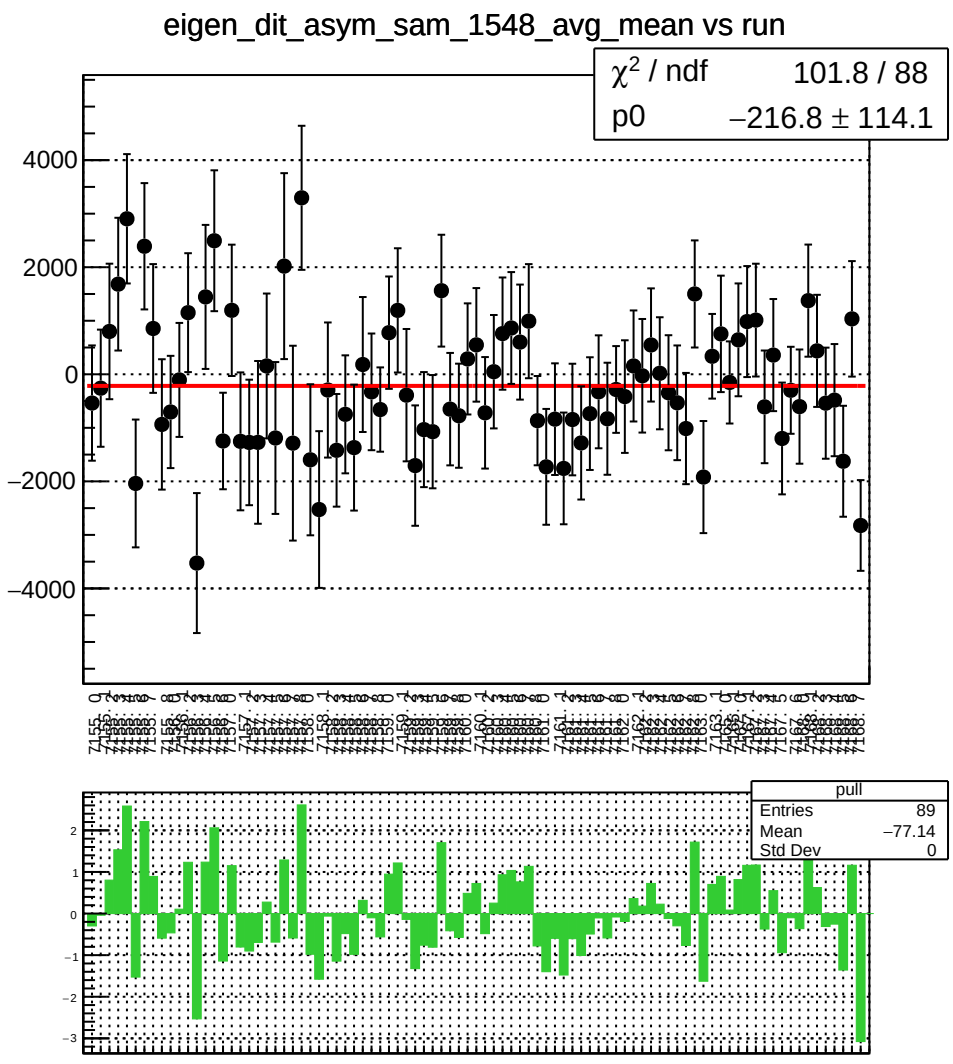

pull1D
Entries 89
Mean 0.02031
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

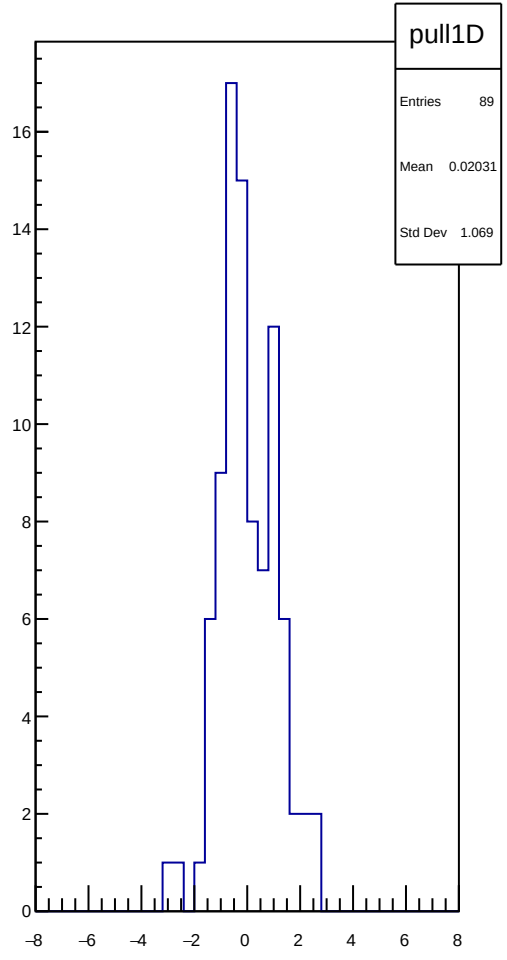

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 2.213e+04 / 88
p0 105.4 ± 0.08065
180
170
160
150
140
130
120
110
100
90

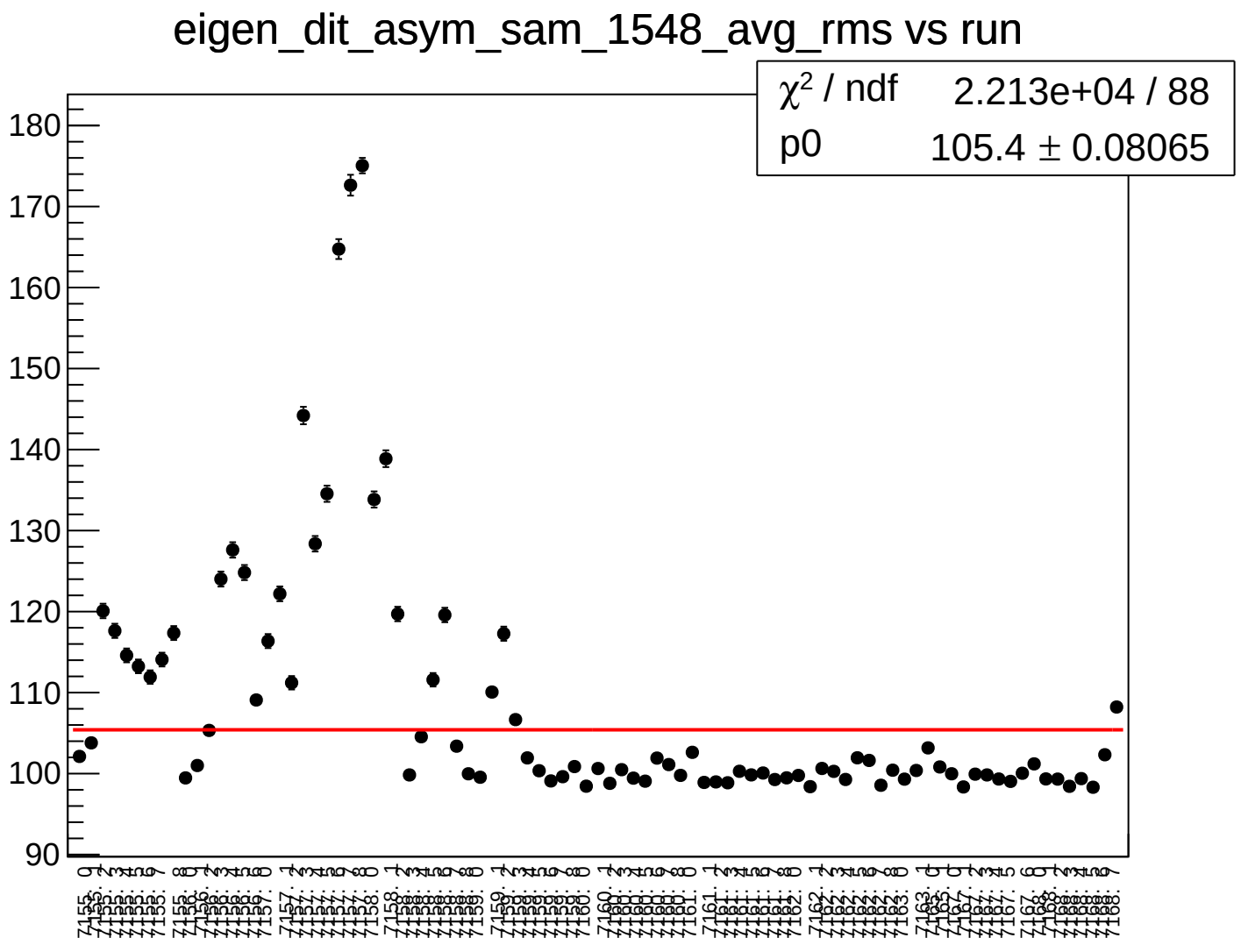

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 64.72 / 88
p0 739.9 ± 754.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −110.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

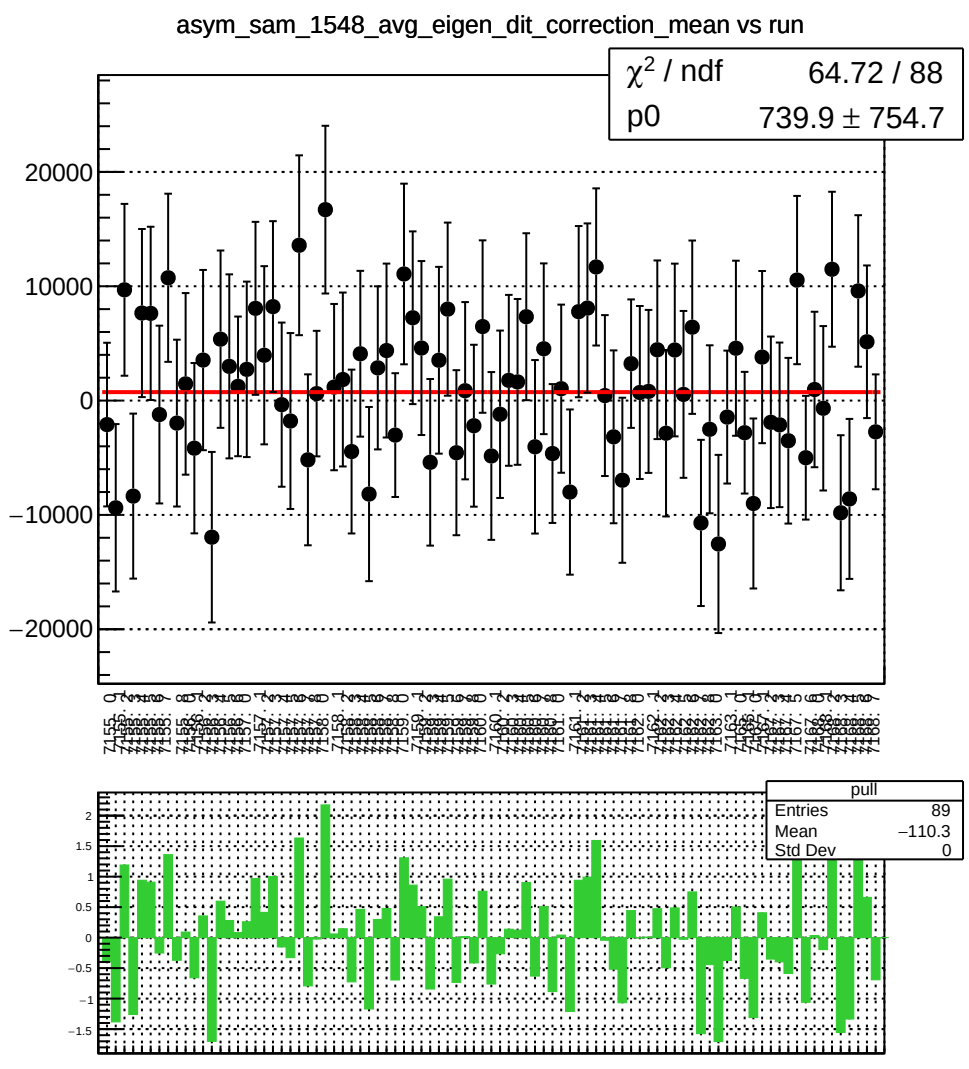

pull1D
Entries 89
Mean 0.01868
Std Dev 0.8525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

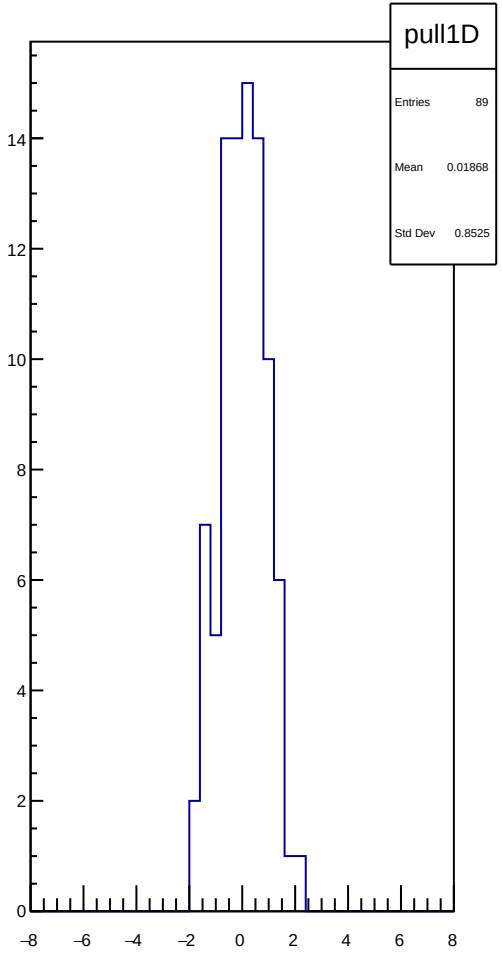

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3091 / 88
p0 701.3 ± 0.5336
780
760
740
720
700
680
660
640
620

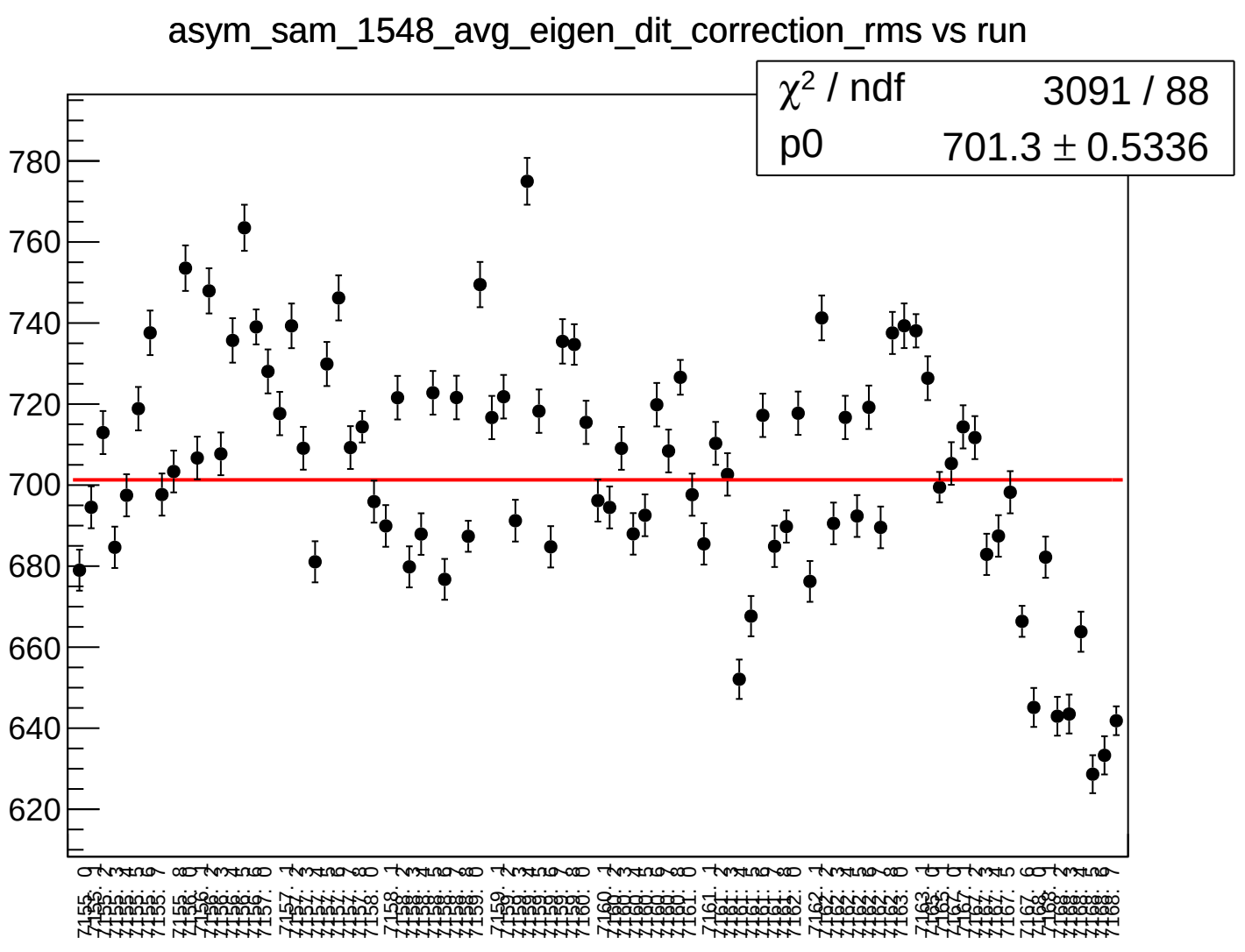

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 101.8 / 88
p0 −216.8 ± 114.1
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −77.14
Std Dev 0
2
1
0
−1
−2
−3

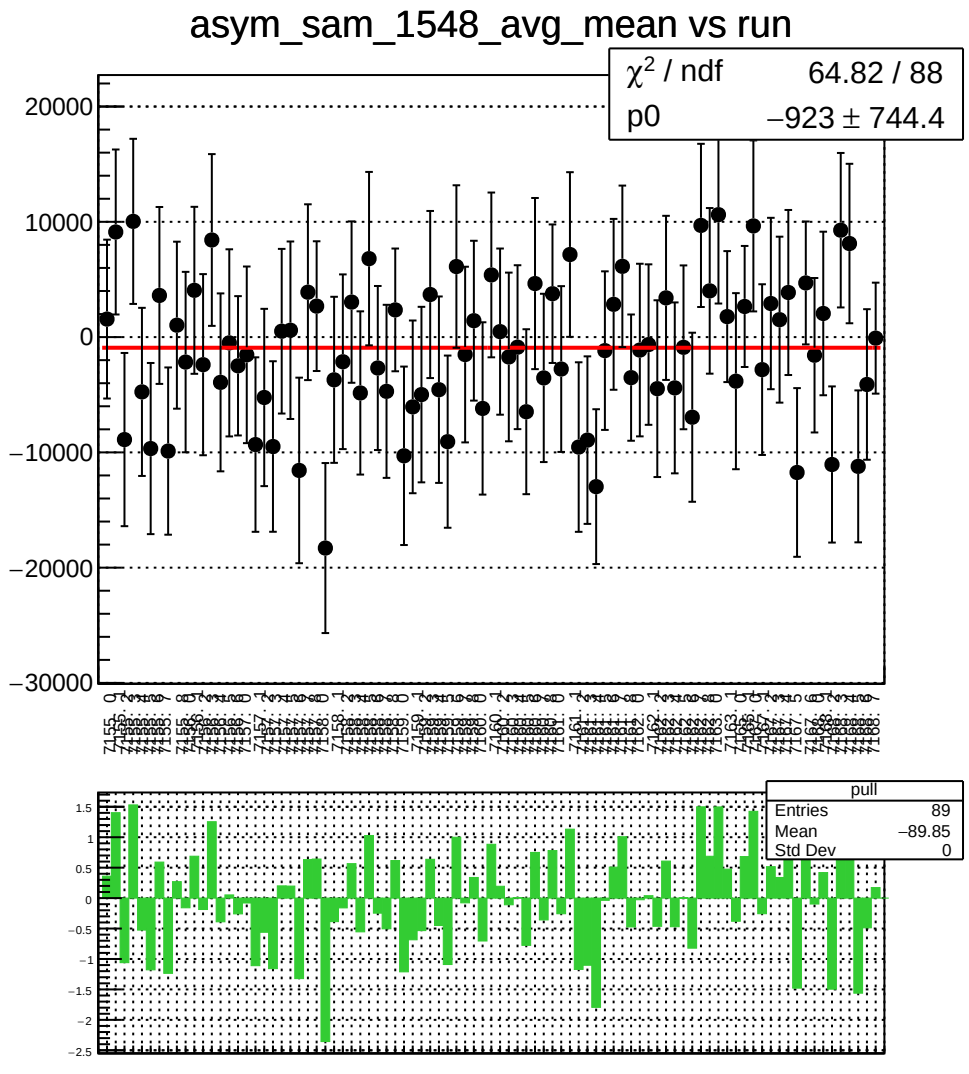

pull1D
Entries 89
Mean 0.02031
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

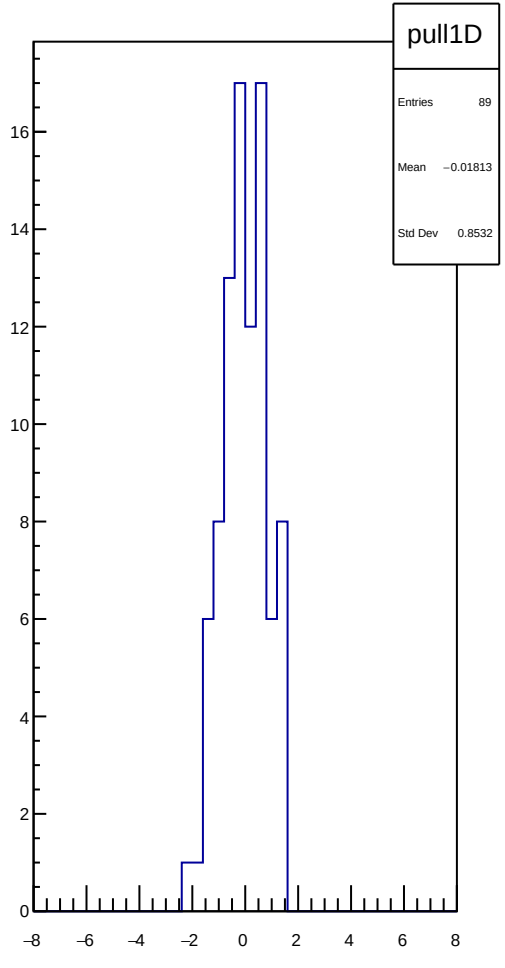

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 2.213e+04 / 88
p0 105.4 ± 0.08065
180
170
160
150
140
130
120
110
100
90

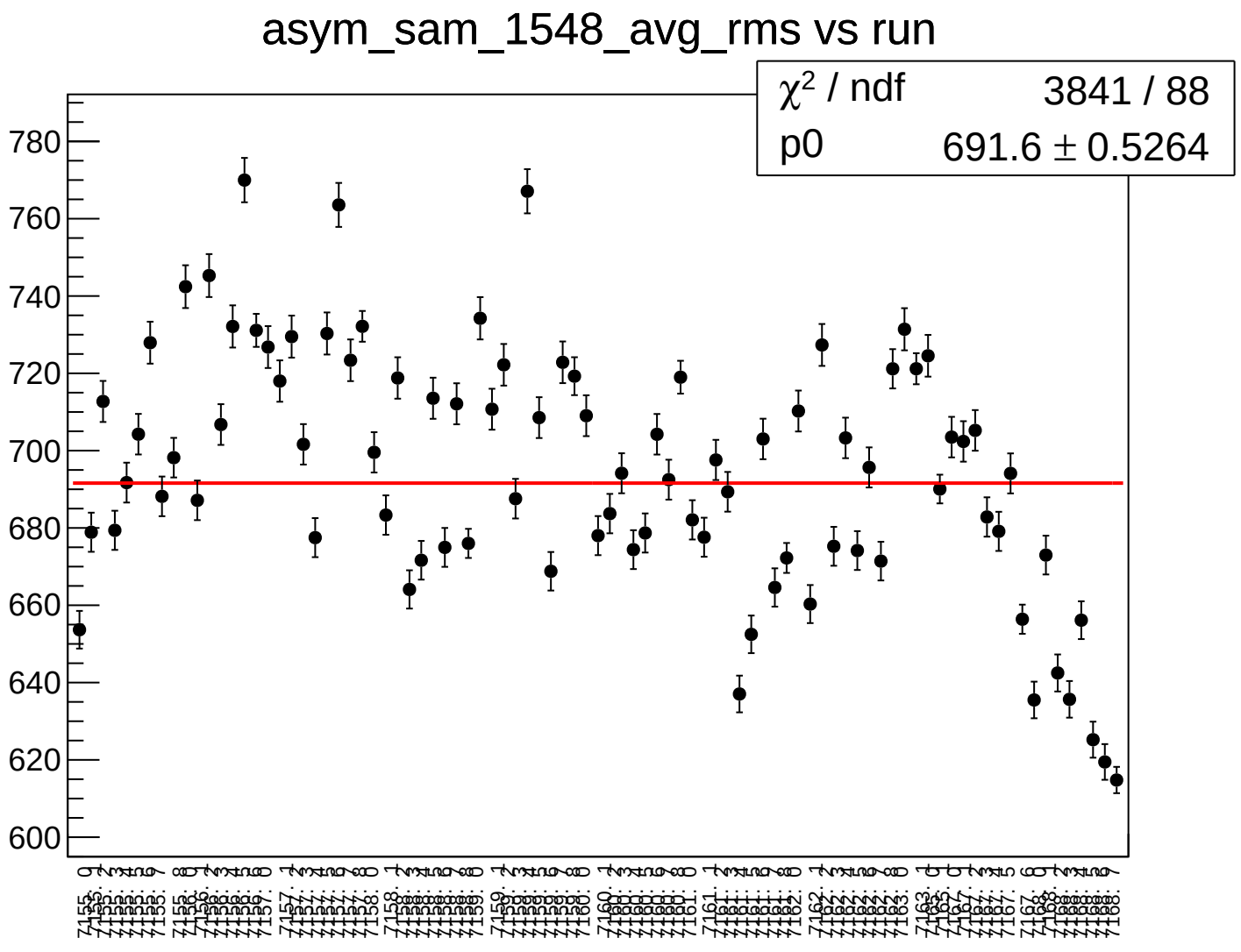

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.72 / 88
p0 739.9 ± 754.7
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −110.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

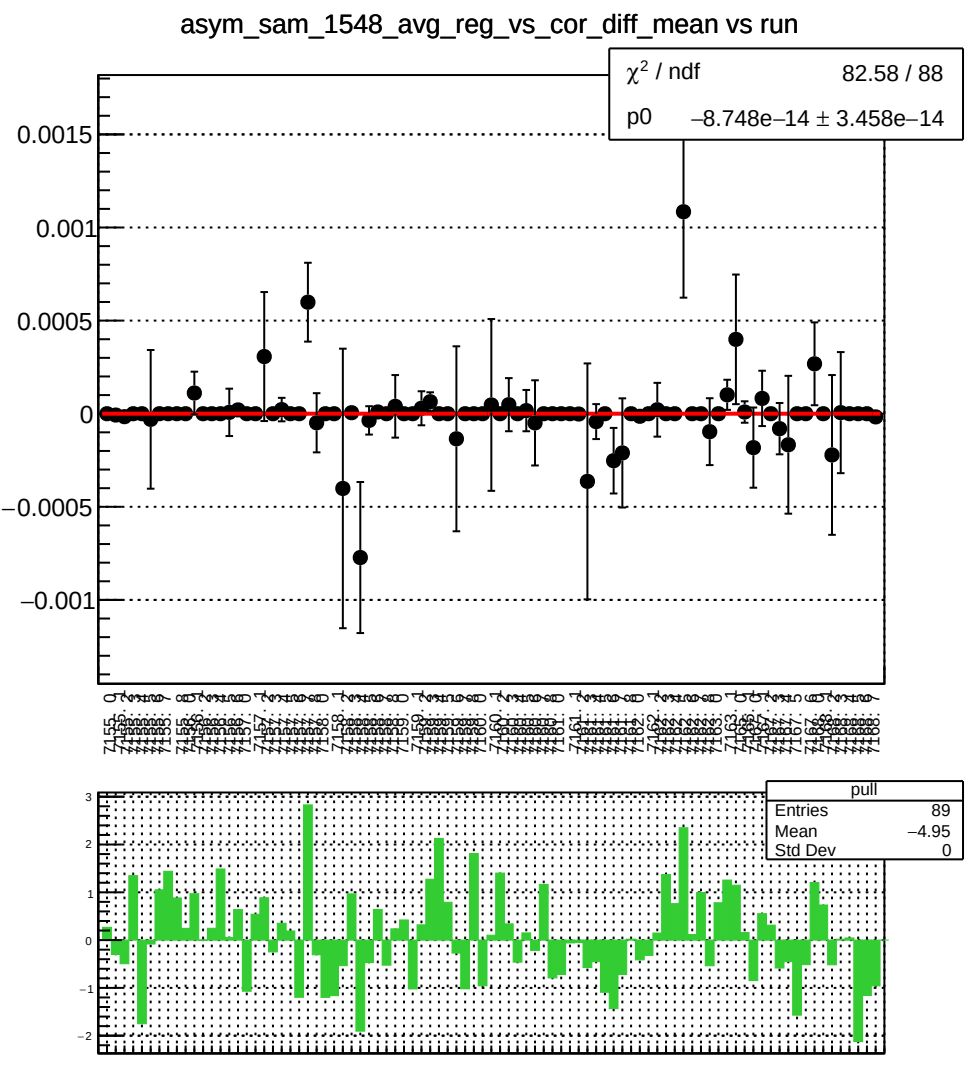

pull1D
Entries 89
Mean 0.01868
Std Dev 0.8525
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

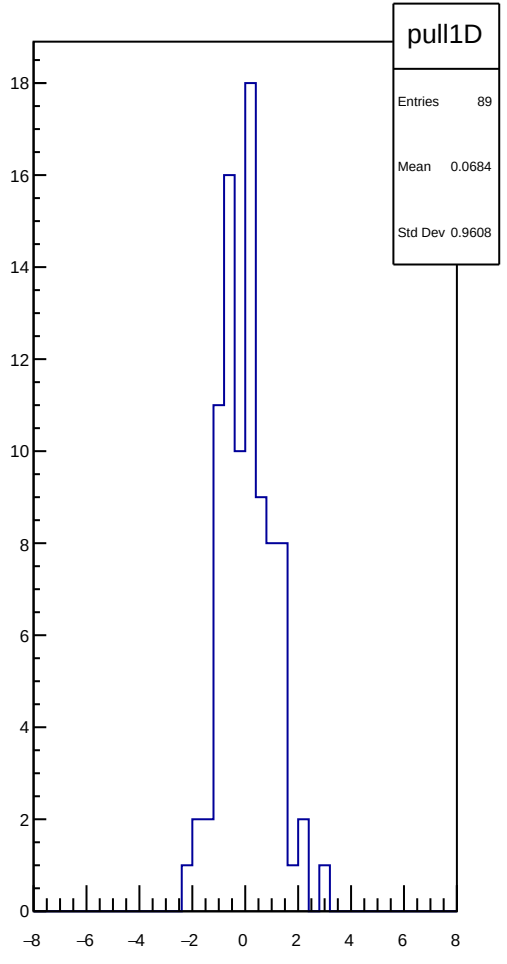

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3091 / 88
p0 701.3 ± 0.5336
780
760
740
720
700
680
660
640
620

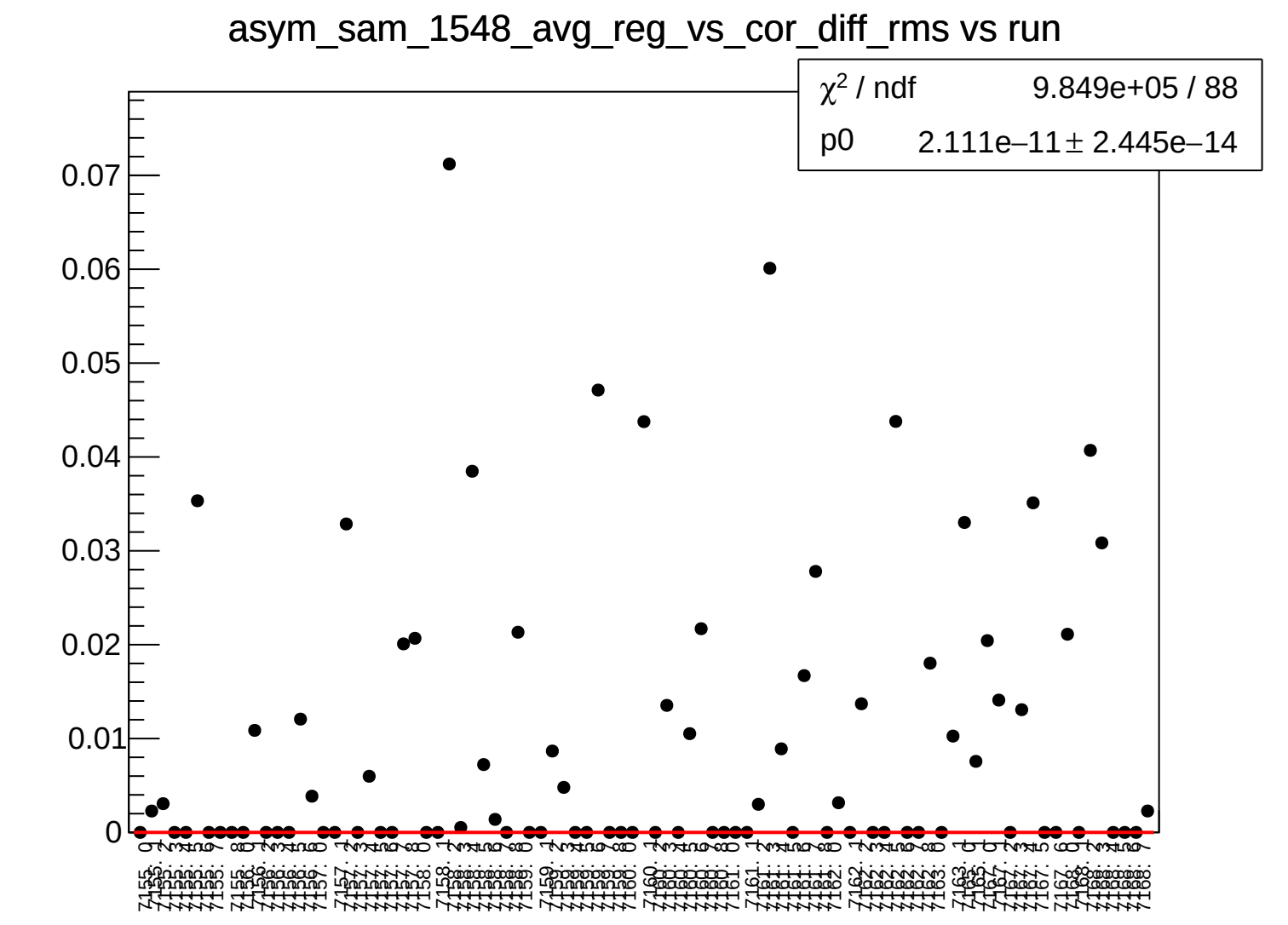

asym_sam_1548_avg_mean vs run
χ² / ndf 64.82 / 88
p0 −923 ± 744.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −89.85
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

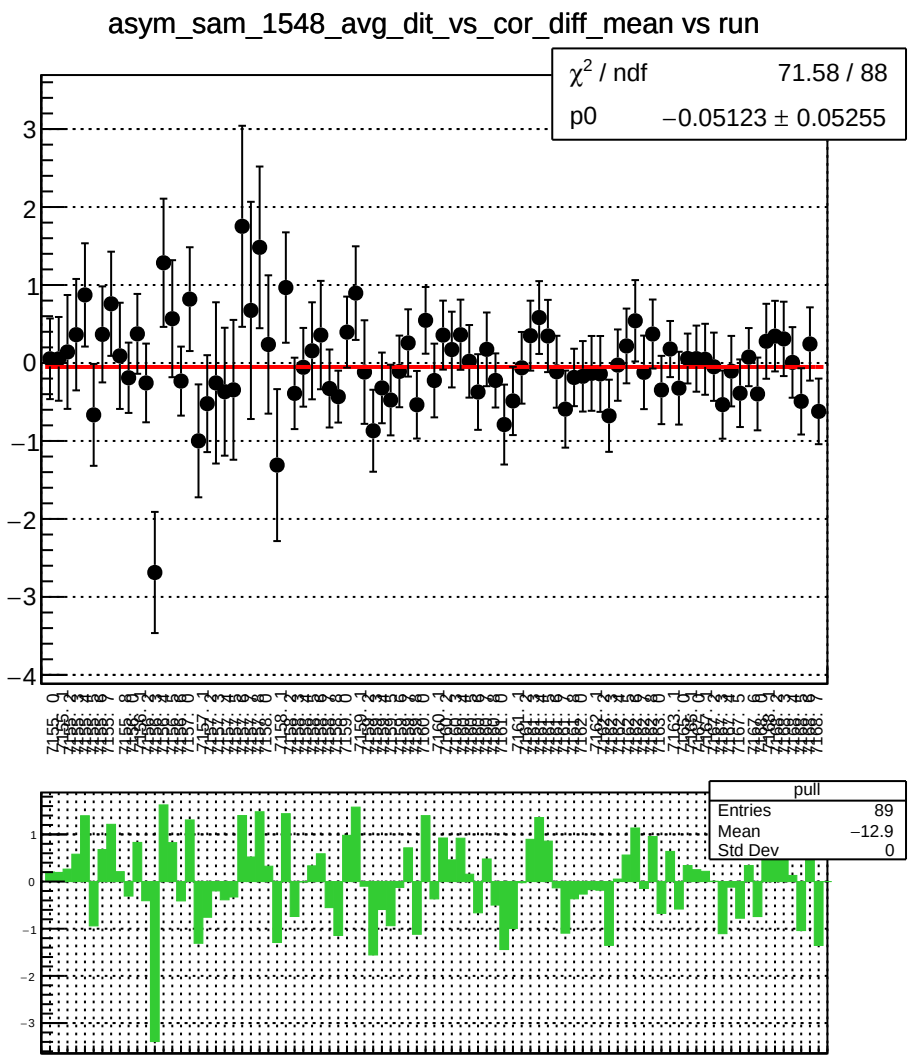

pull1D
Entries 89
Mean −0.01813
Std Dev 0.8532
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

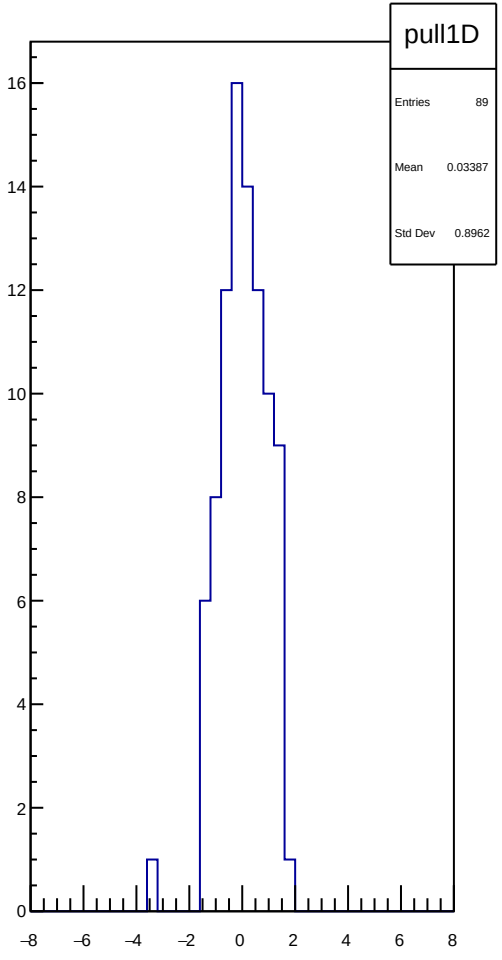

asym_sam_1548_avg_rms vs run
χ² / ndf 3841 / 88
p0 691.6 ± 0.5264
780
760
740
720
700
680
660
640
620
600

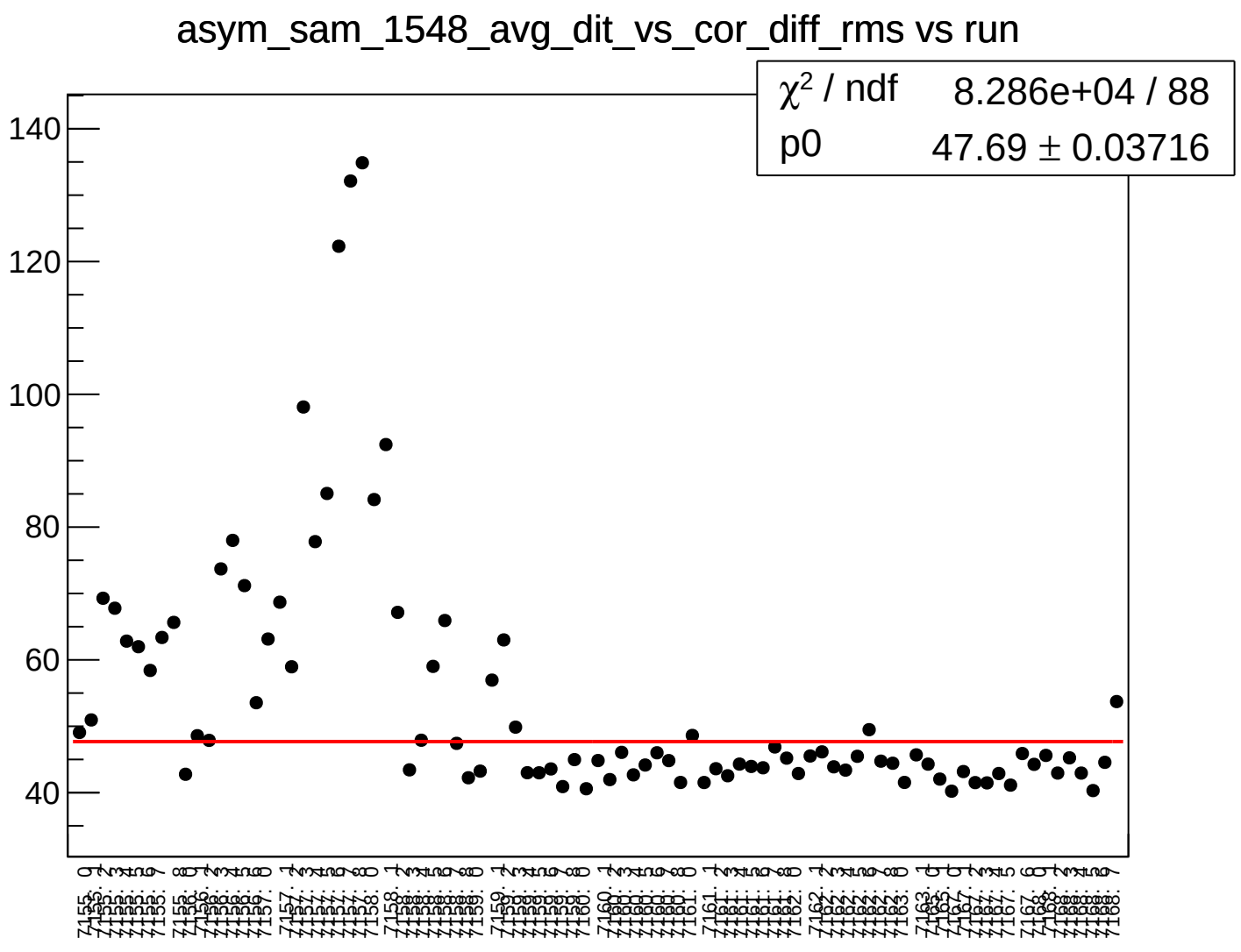

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.58 / 88
p0 −8.748e−14 ± 3.458e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean −4.95
Std Dev 0
3
2
1
0
−1
−2

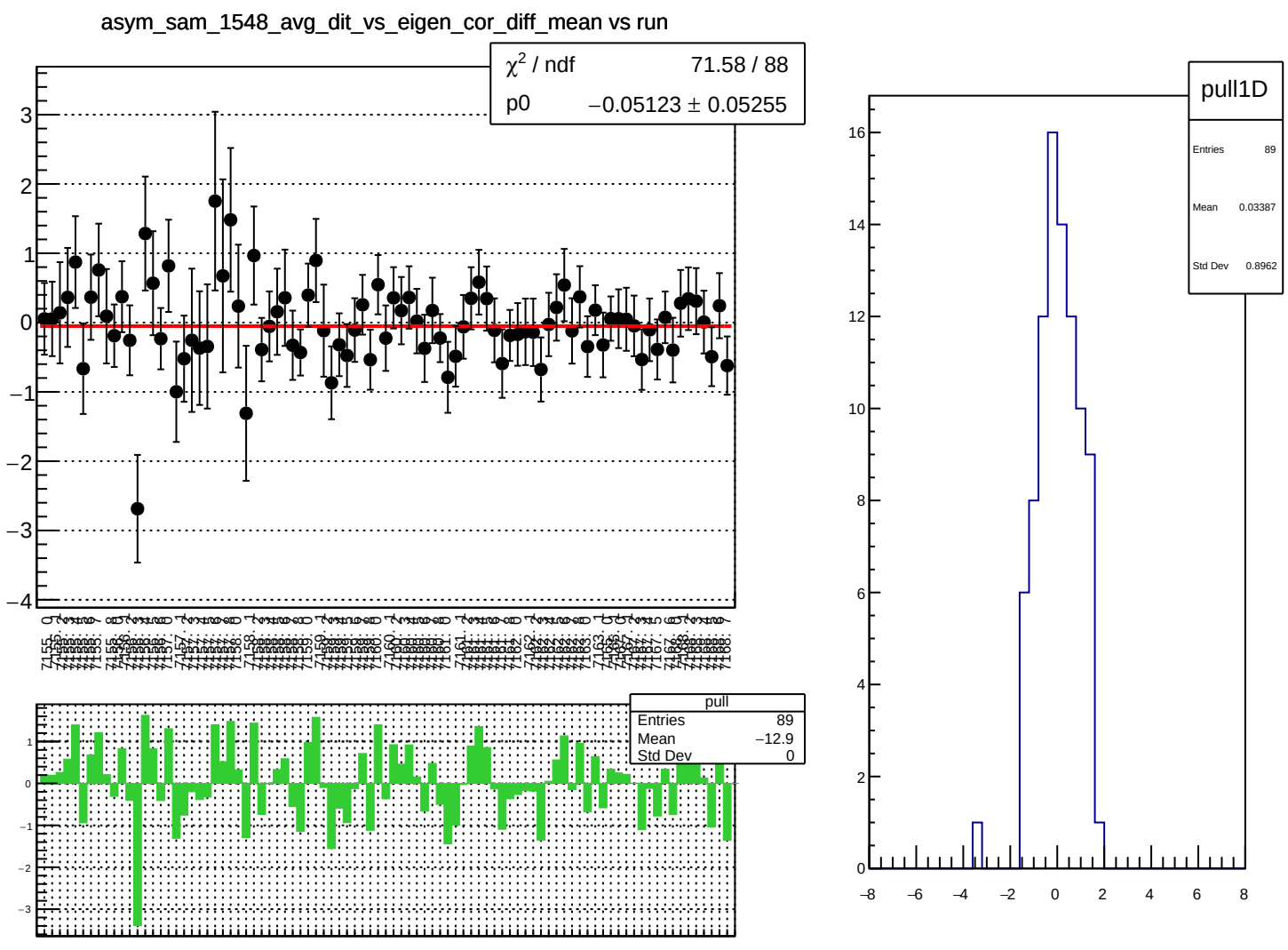

pull1D
Entries 89
Mean 0.0684
Std Dev 0.9608
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

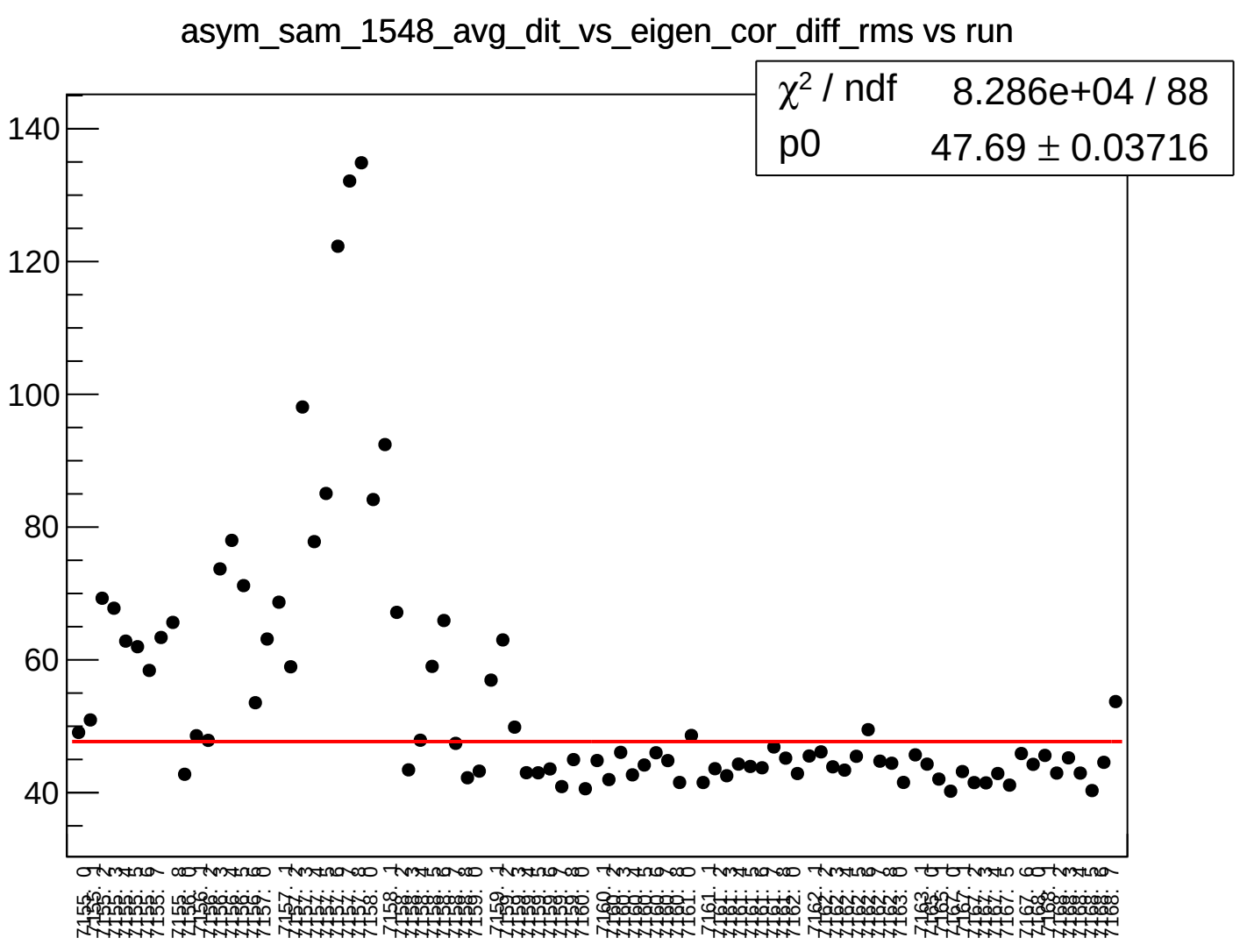

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ^2 / ndf 9.849e+05 / 88
p0 2.111e−11 ± 2.445e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

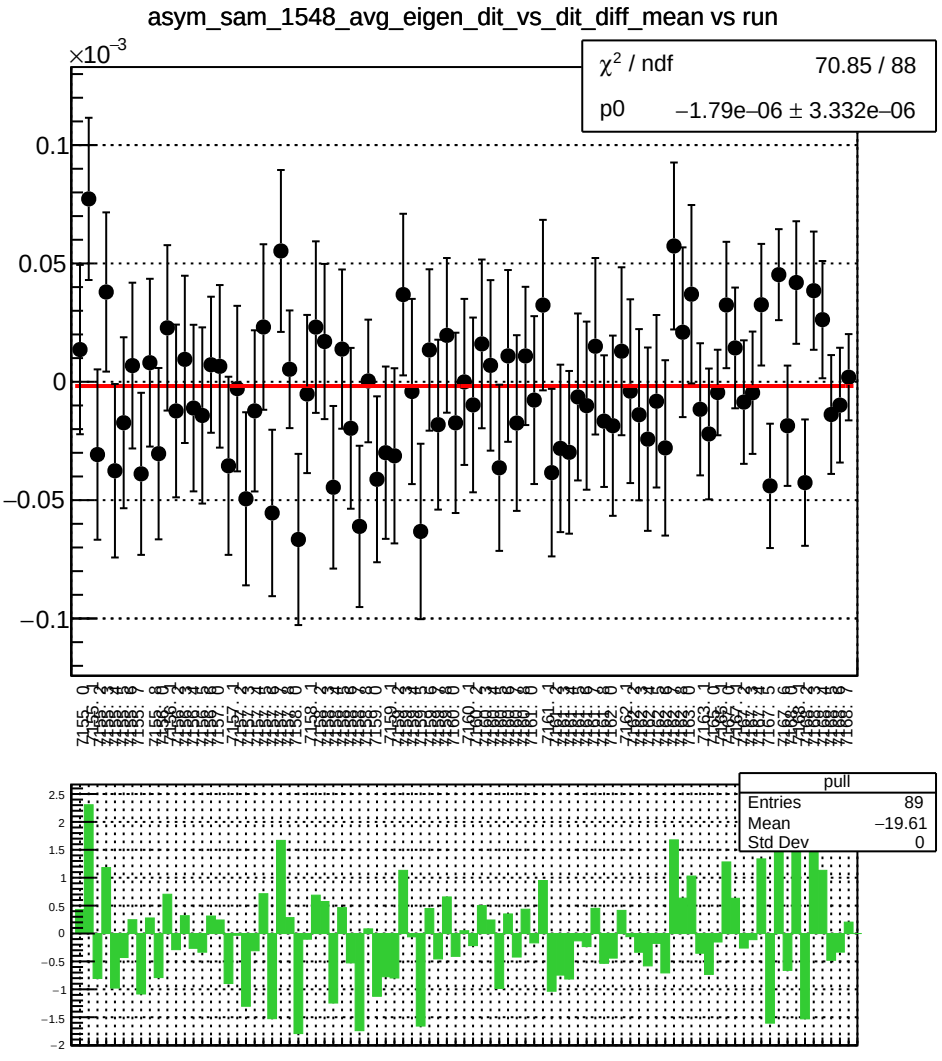

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.58 / 88
p0 −0.05123 ± 0.05255
pull
Entries 89
Mean −12.9
Std Dev 0

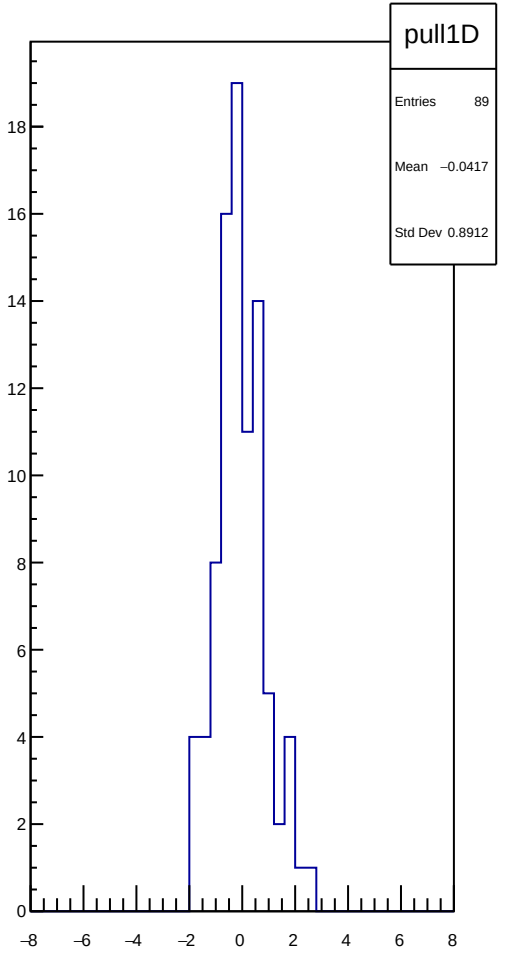

pull1D
Entries 89
Mean 0.03387
Std Dev 0.8962

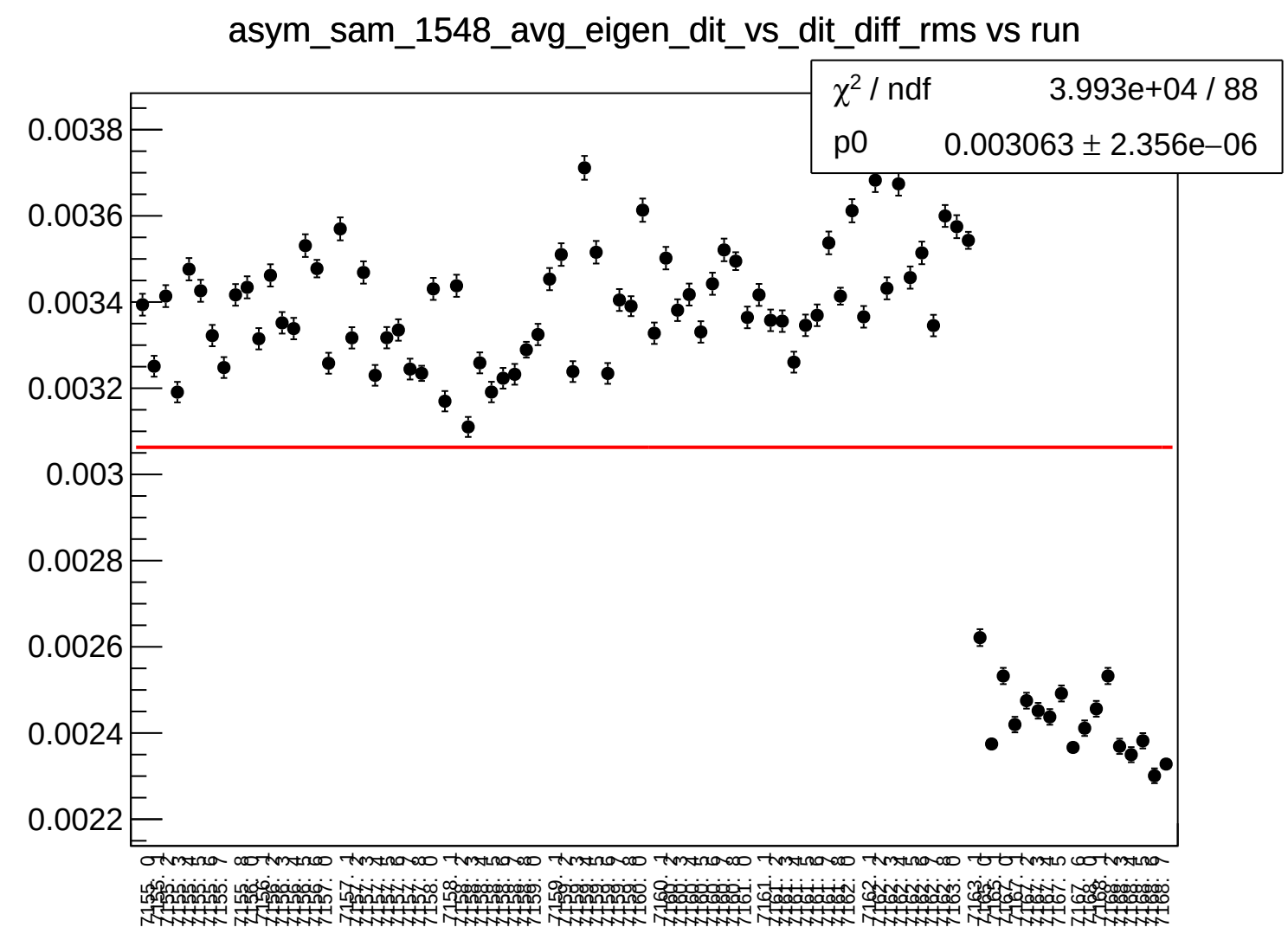

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.286e+04 / 88
p0 47.69 ± 0.03716
140
120
100
80
60
40

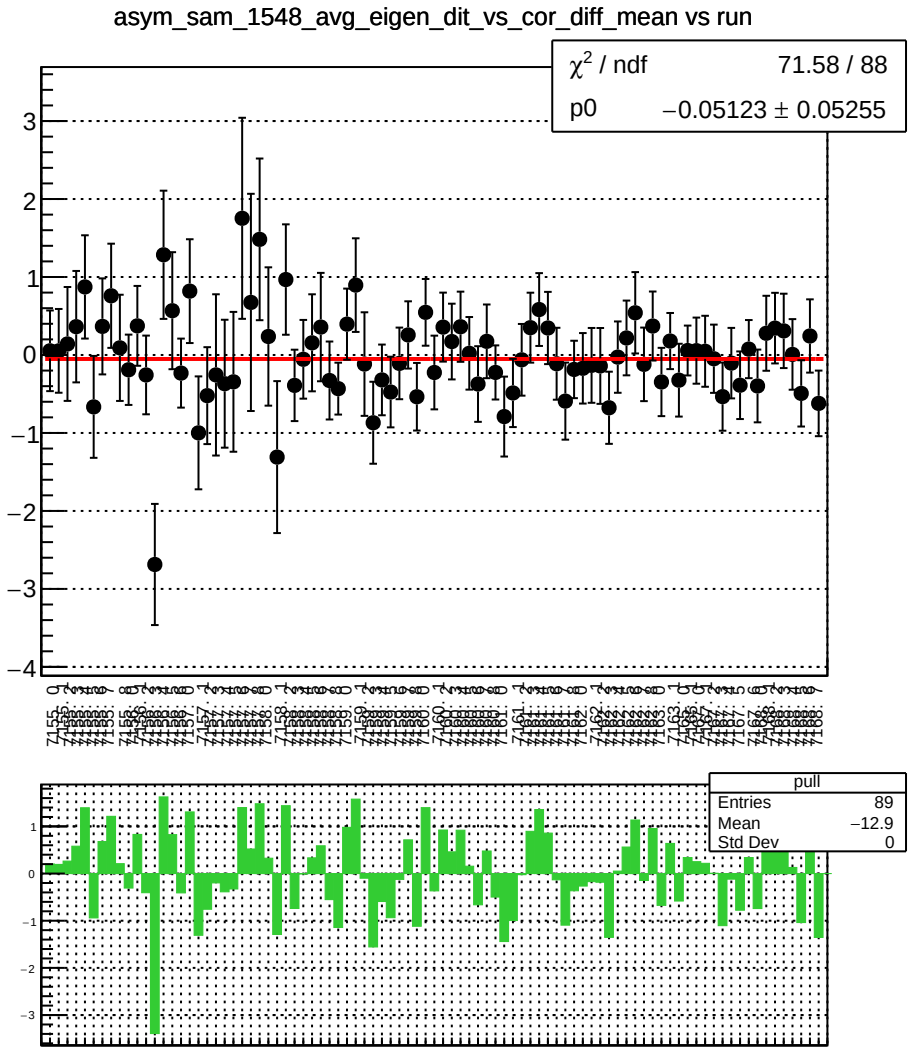

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.58 / 88
p0 −0.05123 ± 0.05255
pull
Entries 89
Mean −12.9
Std Dev 0
pull1D
Entries 89
Mean 0.03387
Std Dev 0.8962

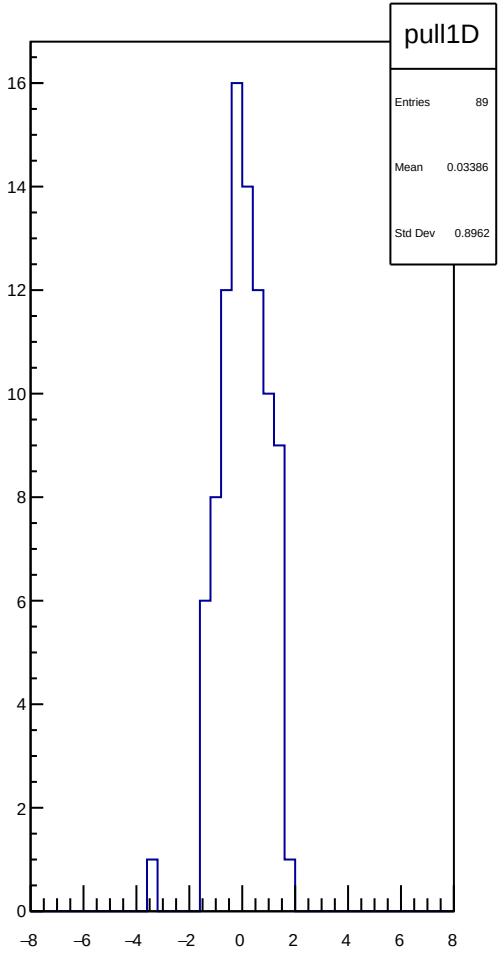

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.286e+04 / 88
p0 47.69 ± 0.03716
140
120
100
80
60
40

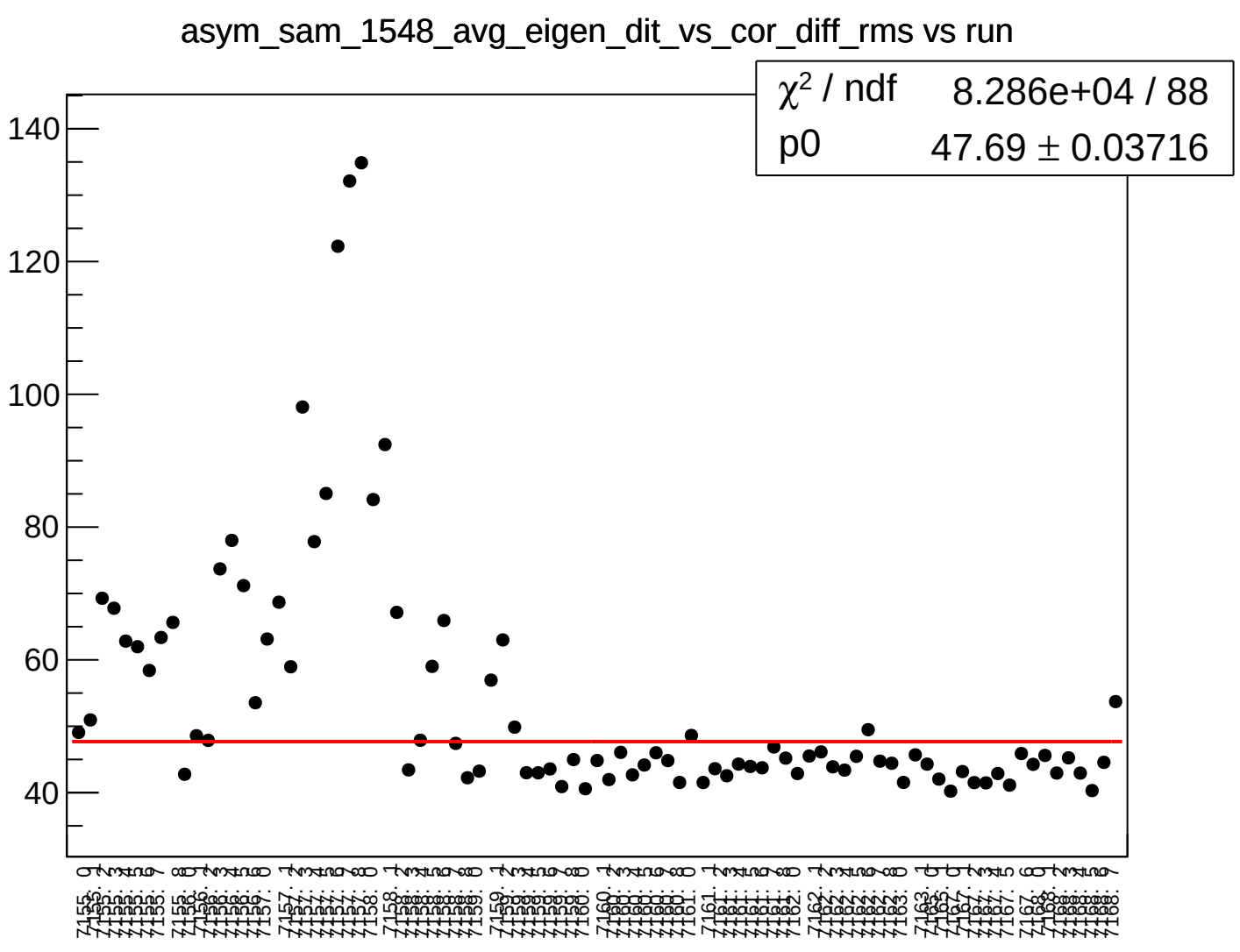

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 70.85 / 88
p0 −1.79e−06 ± 3.332e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −19.61
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

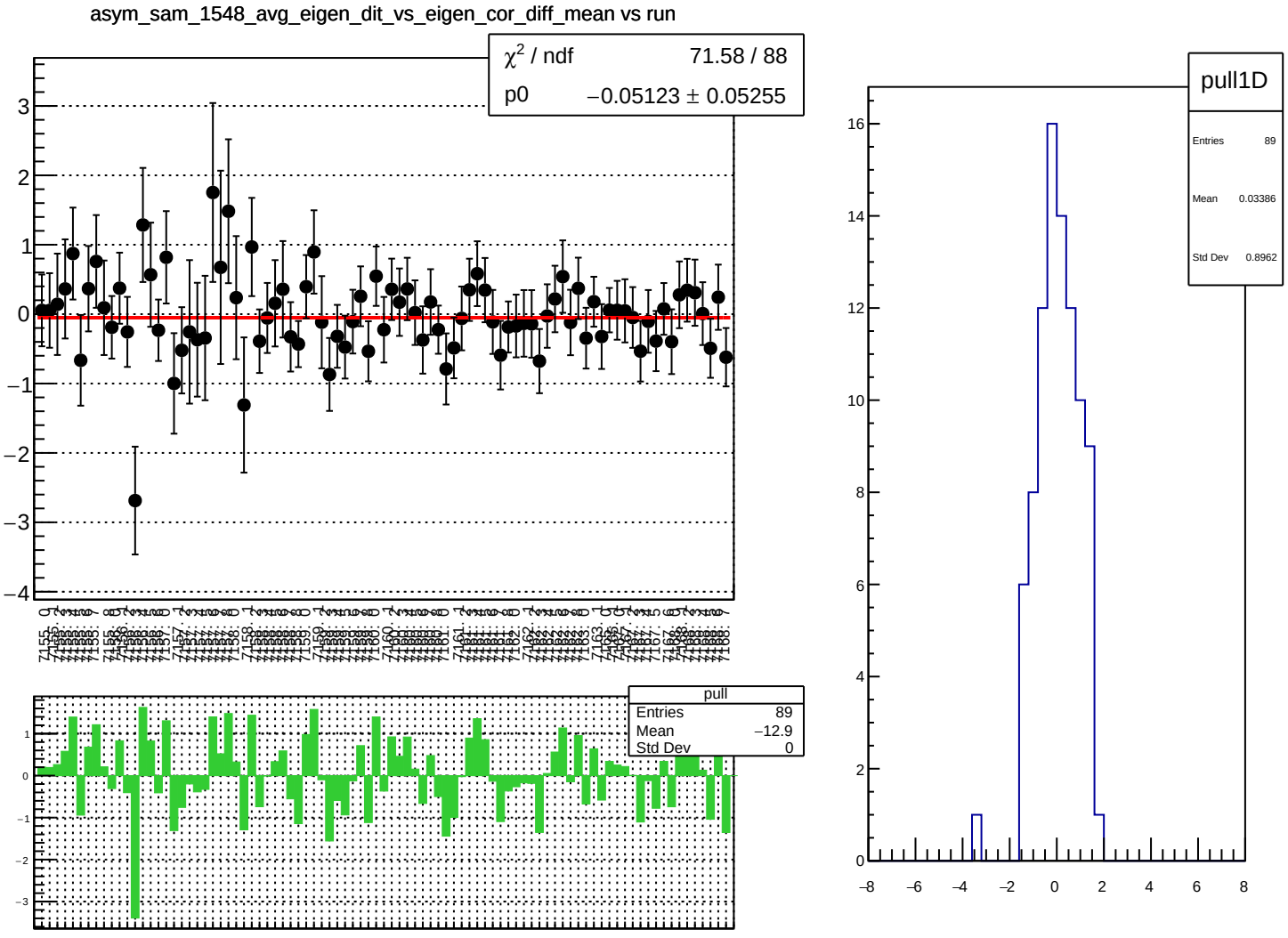

pull1D
Entries 89
Mean −0.0417
Std Dev 0.8912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

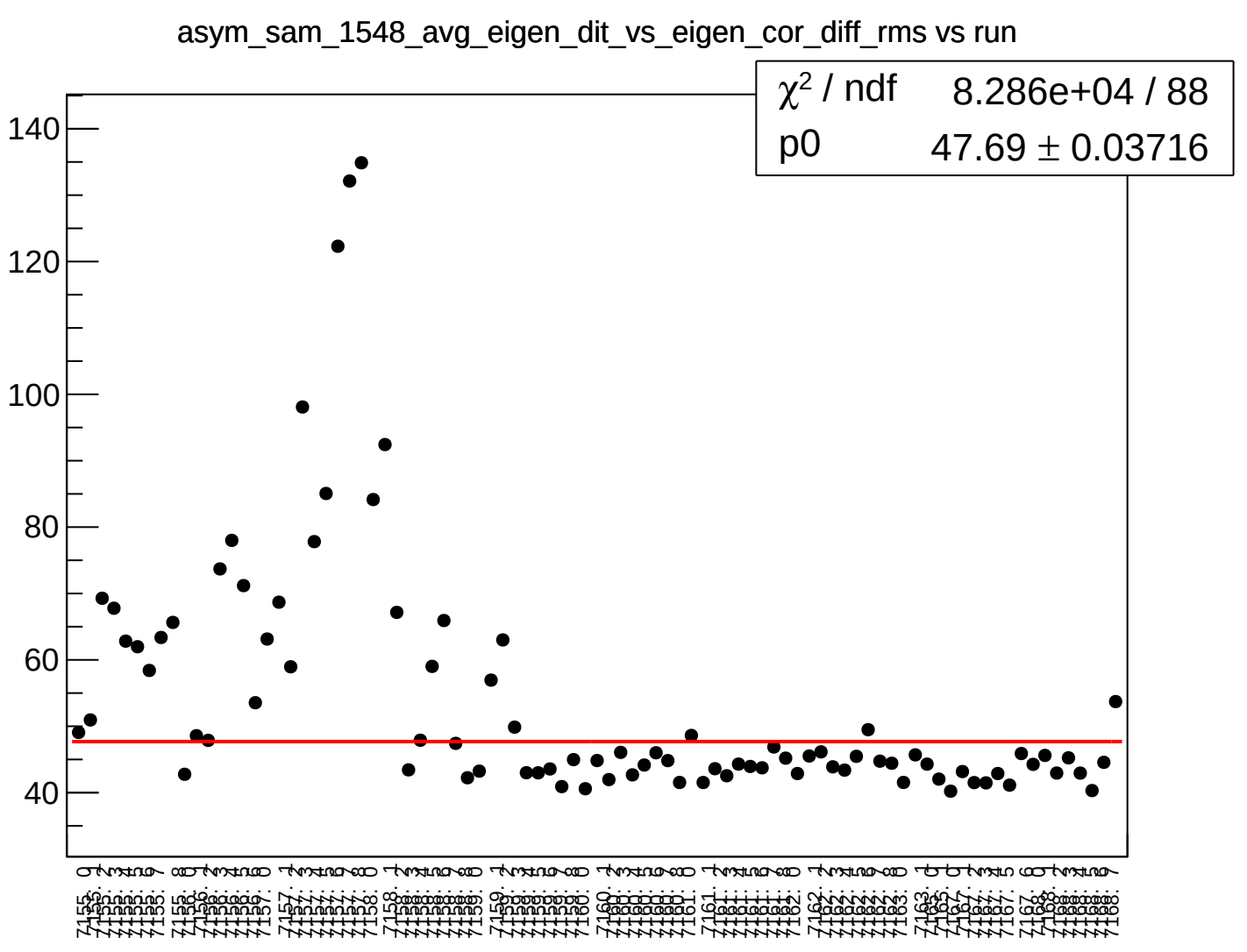

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.993e+04 / 88
p0 0.003063 ± 2.356e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

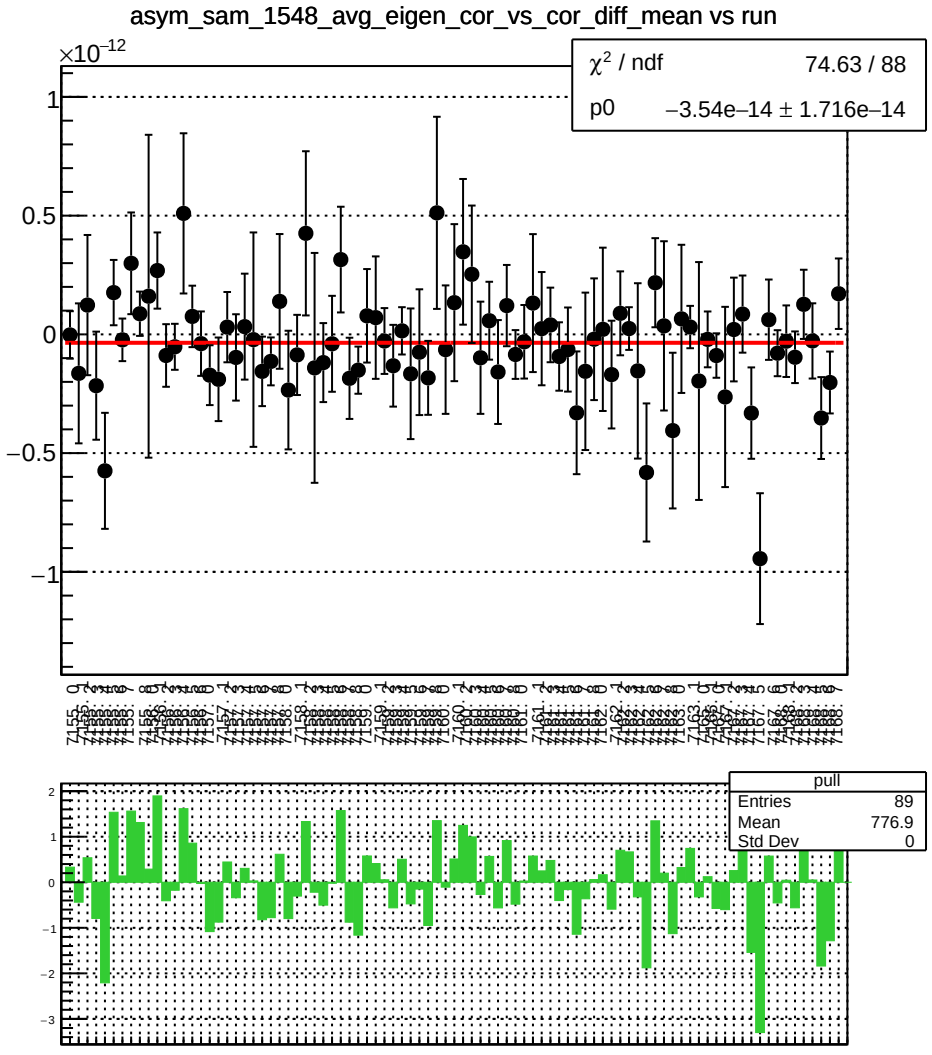

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.58 / 88
p0 −0.05123 ± 0.05255
pull
Entries 89
Mean −12.9
Std Dev 0

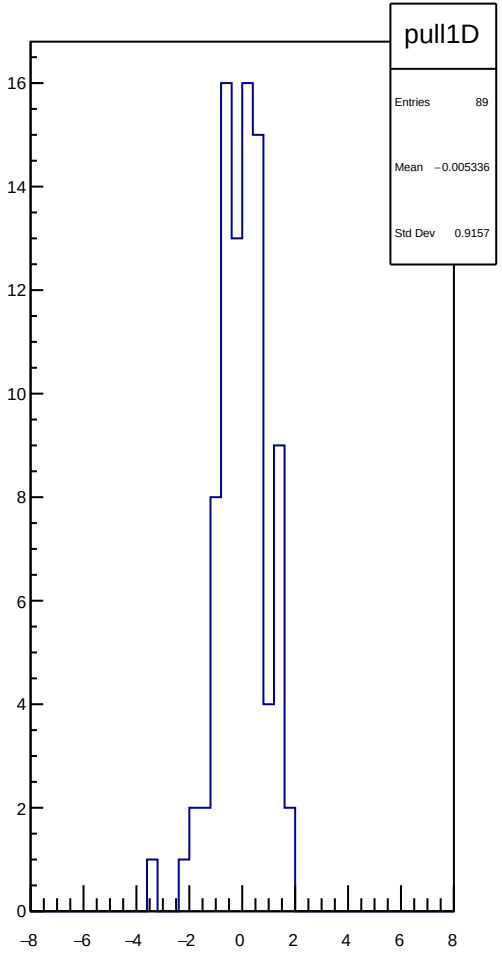

pull1D
Entries 89
Mean 0.03386
Std Dev 0.8962

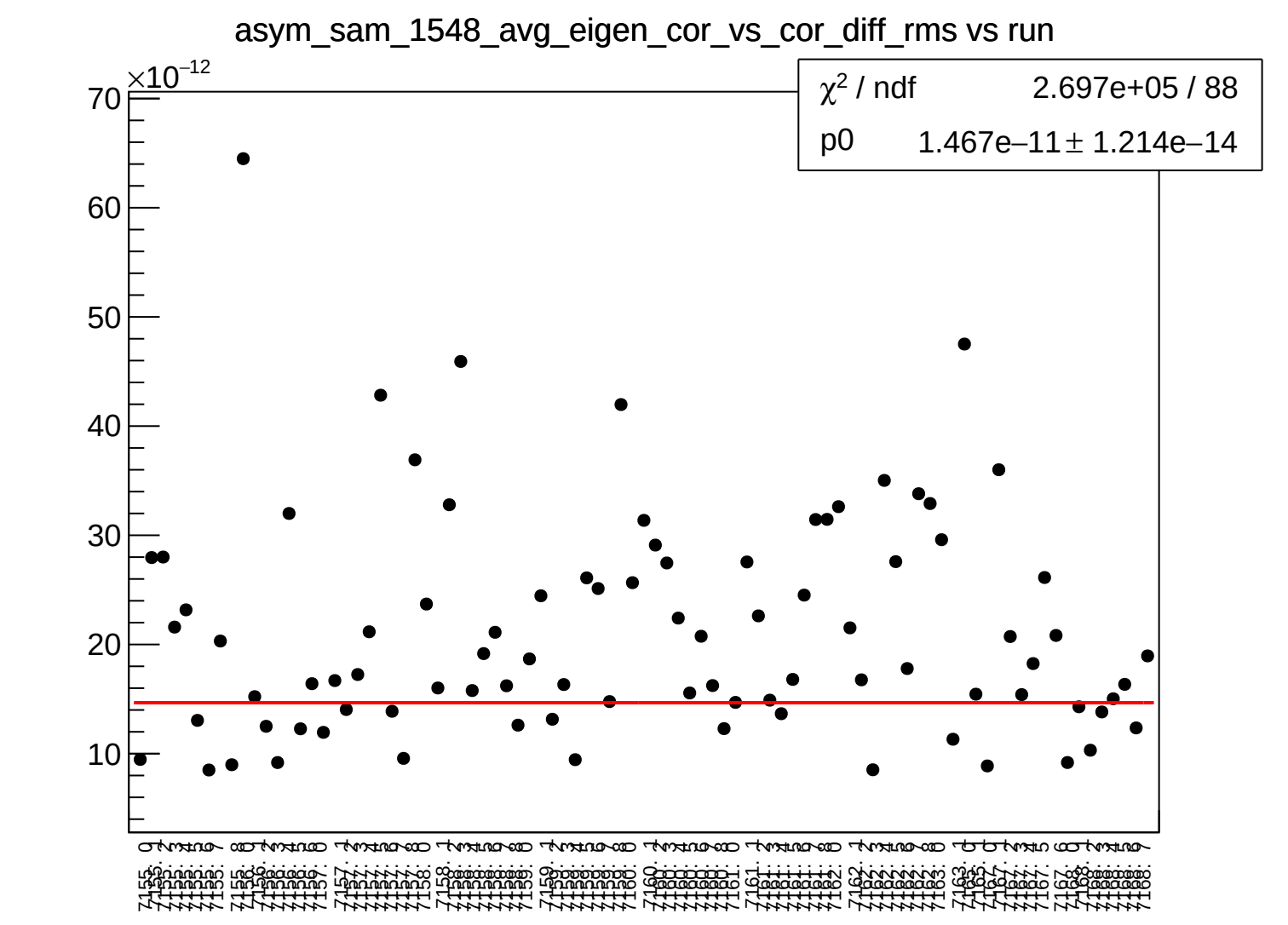

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.286e+04 / 88
p0 47.69 ± 0.03716
140
120
100
80
60
40

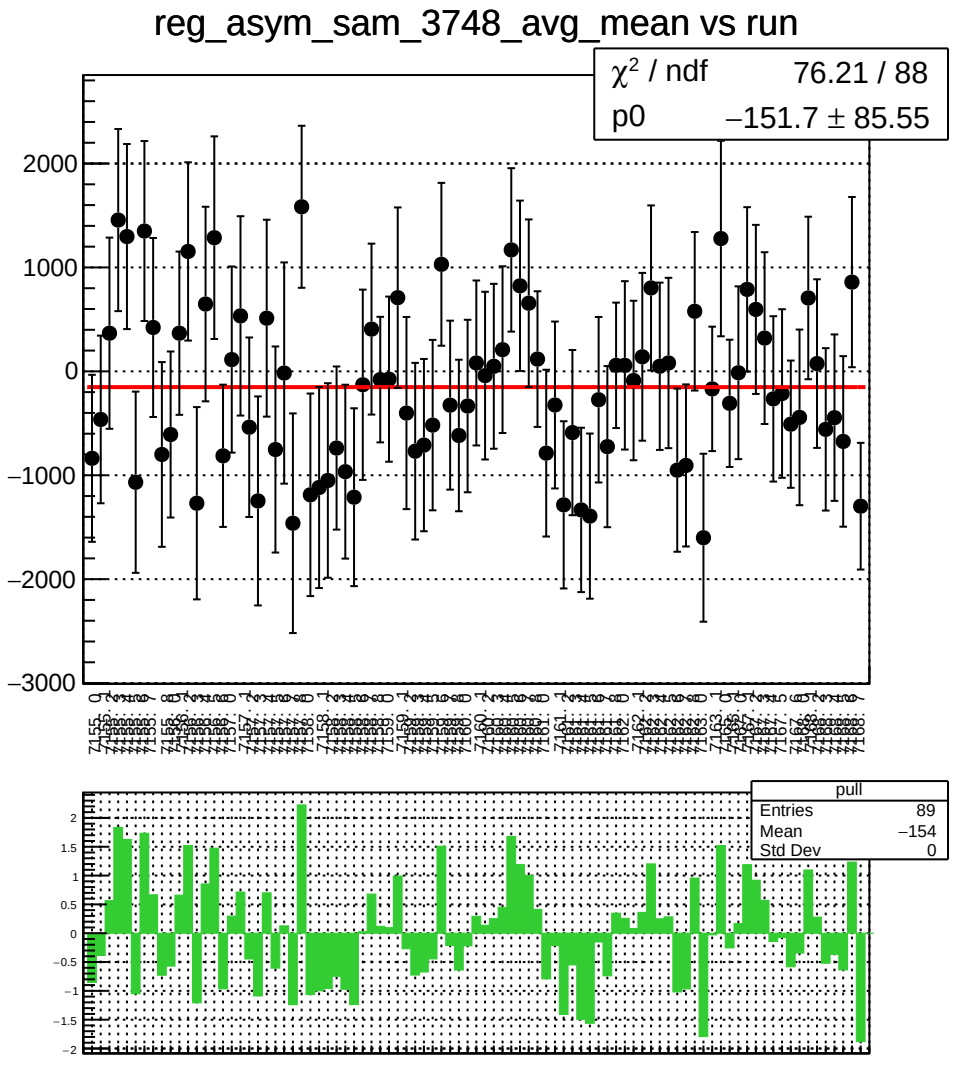

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.58 / 88
p0 −0.05123 ± 0.05255
pull
Entries 89
Mean −12.9
Std Dev 0
pull1D
Entries 89
Mean 0.03386
Std Dev 0.8962

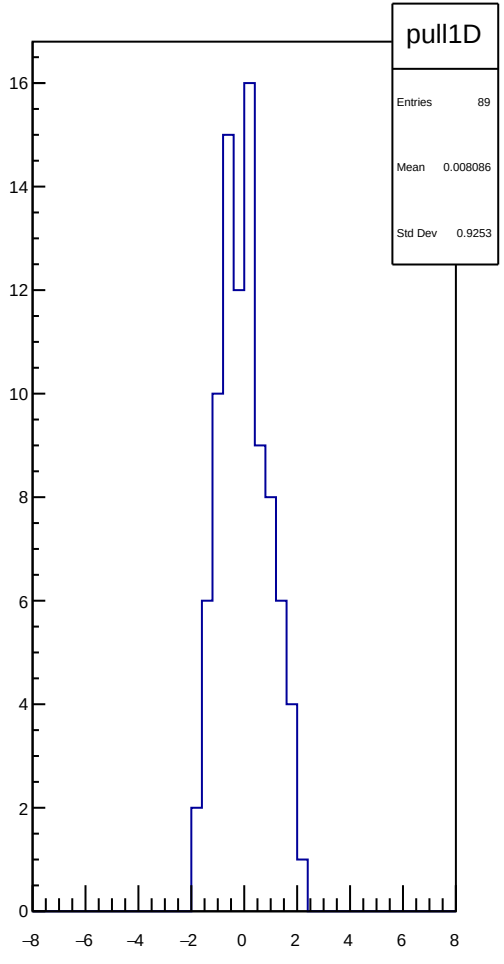

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.286e+04 / 88
p0 47.69 ± 0.03716
140
120
100
80
60
40

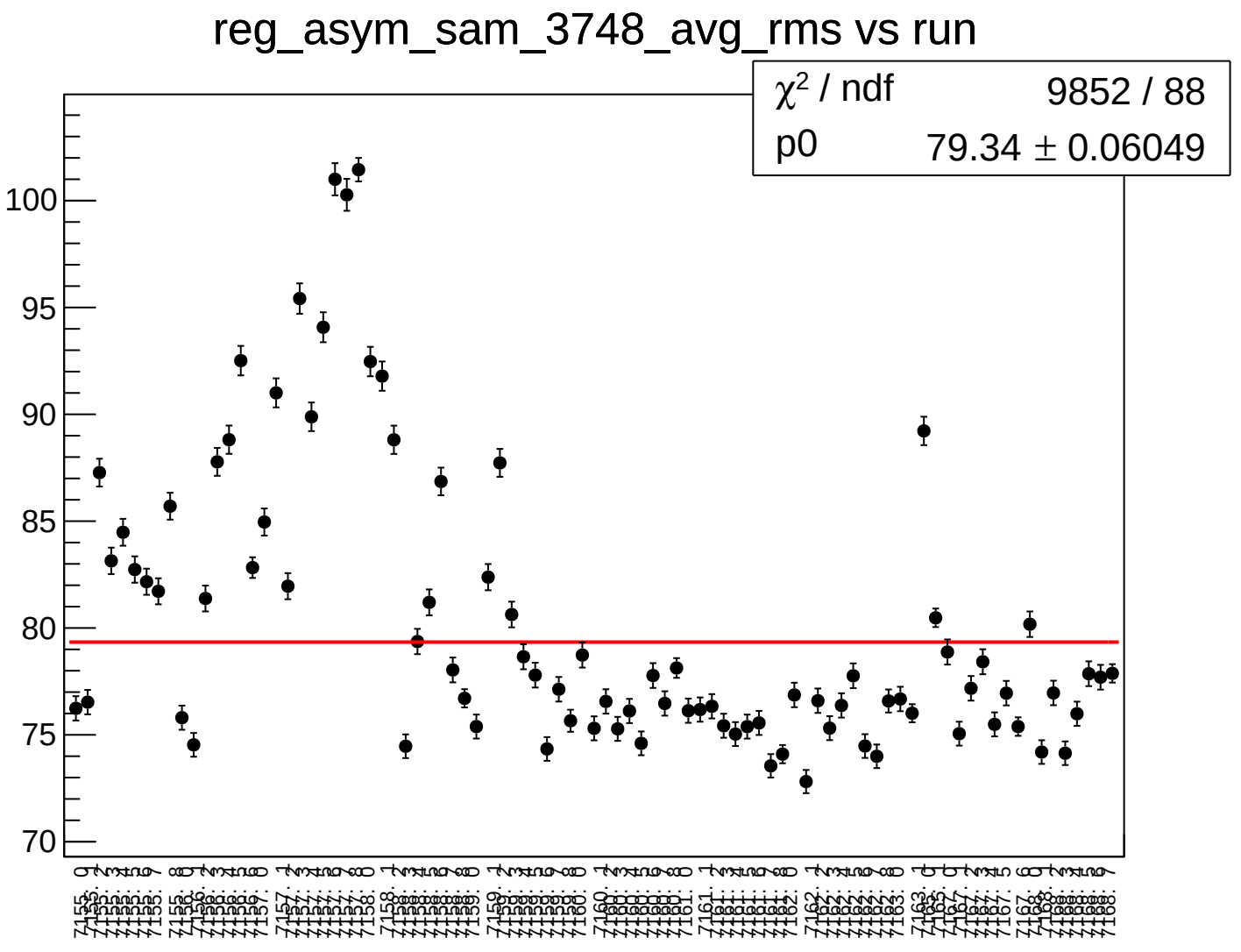

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.63 / 88
p0 −3.54e−14 ± 1.716e−14
pull
Entries 89
Mean 776.9
Std Dev 0

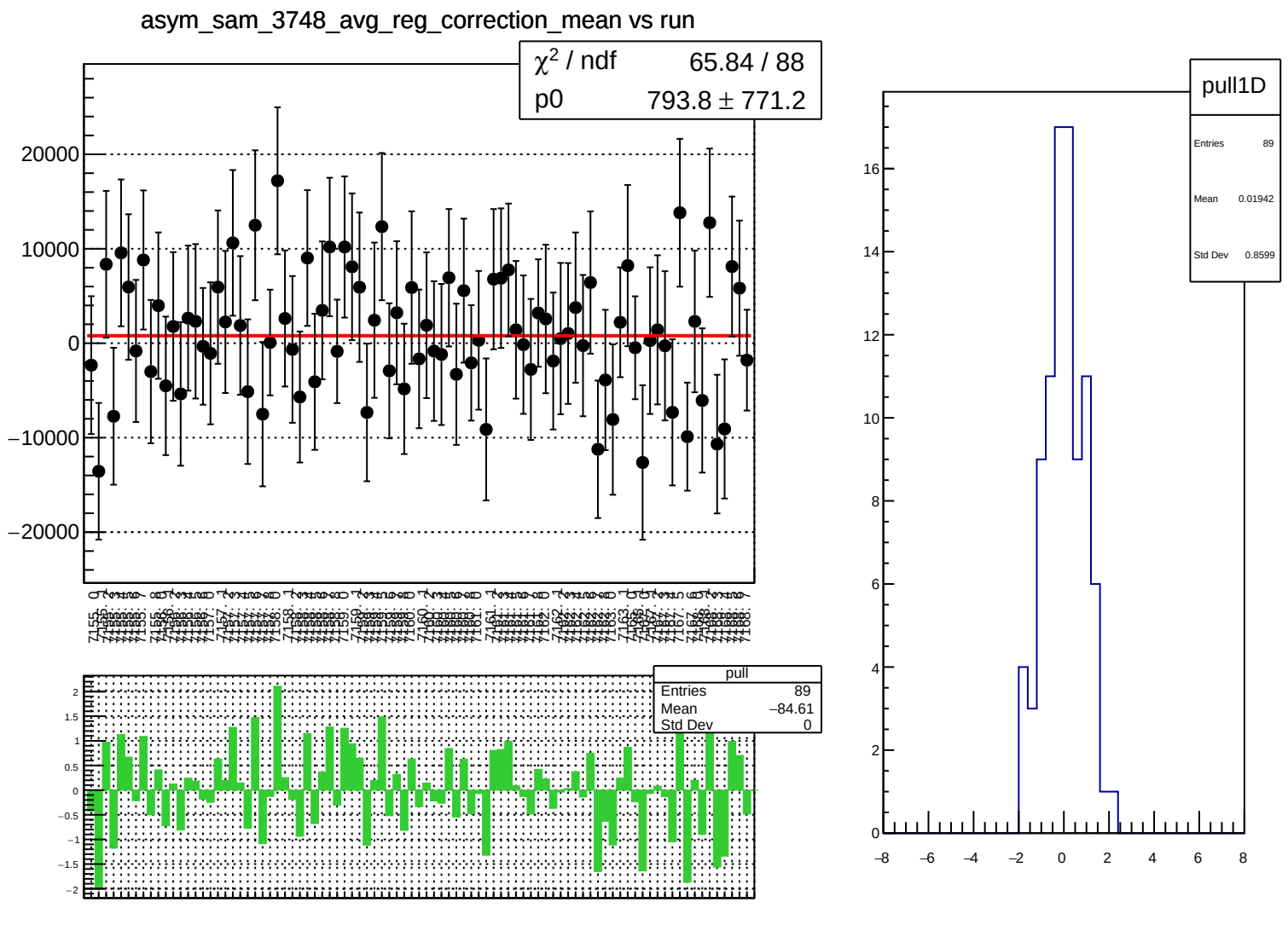

pull1D
Entries 89
Mean −0.005336
Std Dev 0.9157

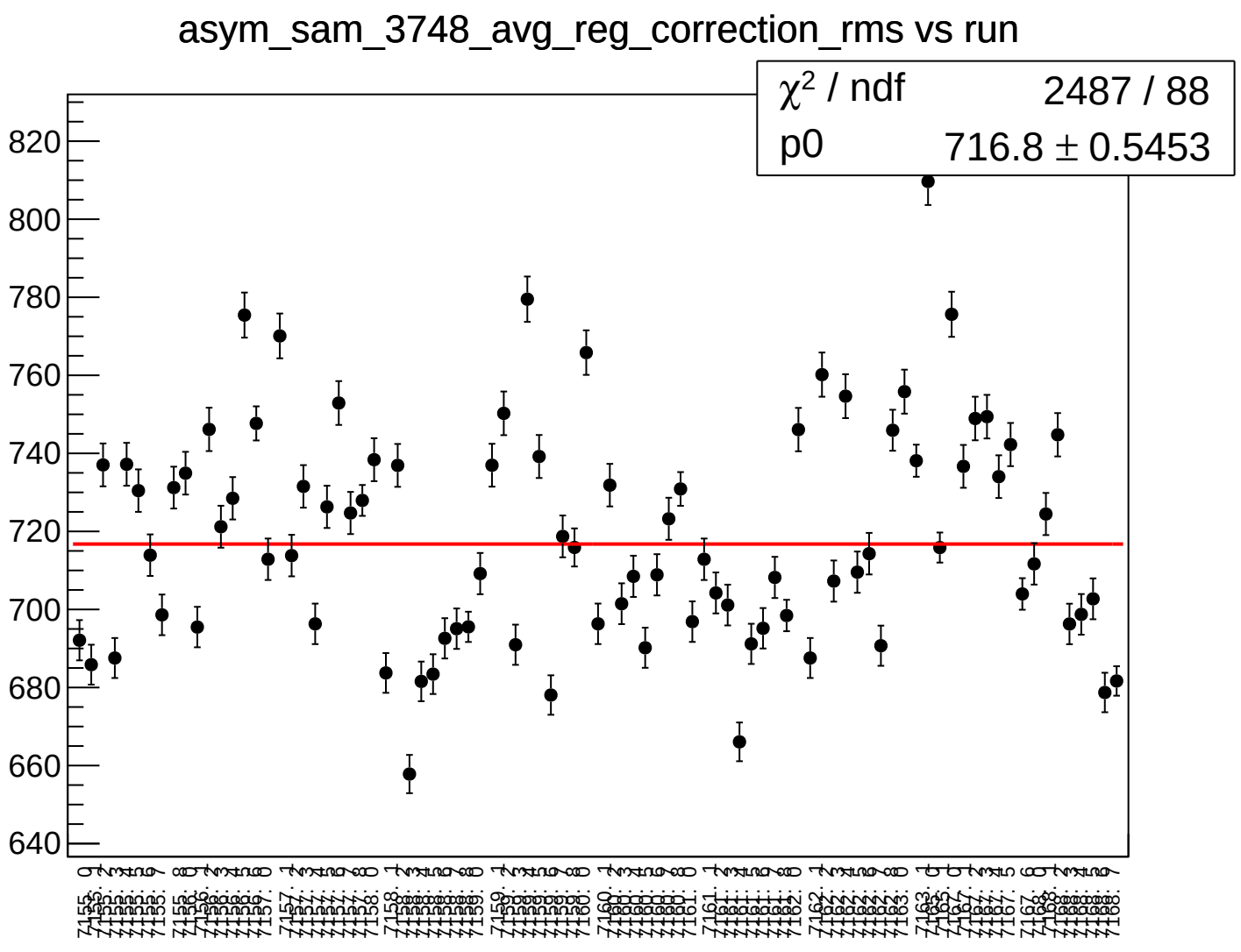

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
70
60
50
40
30
20
10
χ² / ndf 2.697e+05 / 88
p0 1.467e−11 ± 1.214e−14

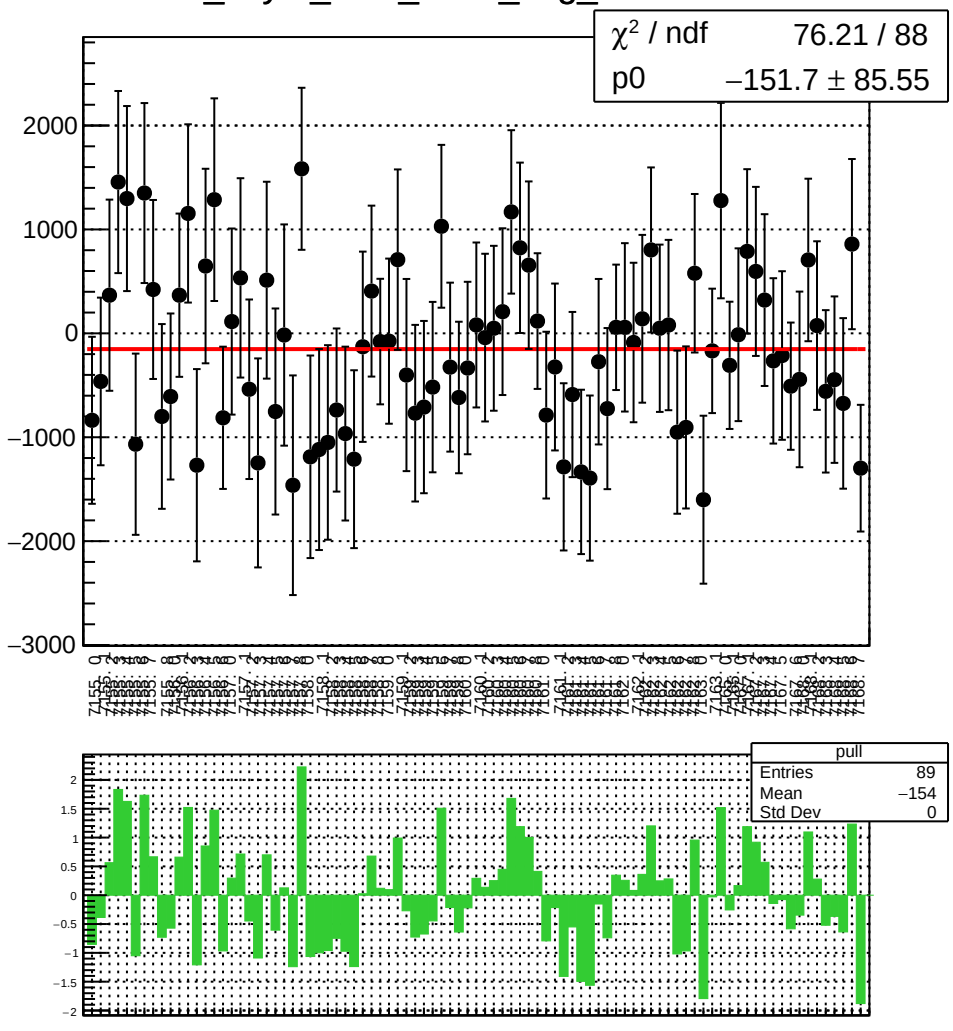

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 76.21 / 88
p0 −151.7 ± 85.55
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −154
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

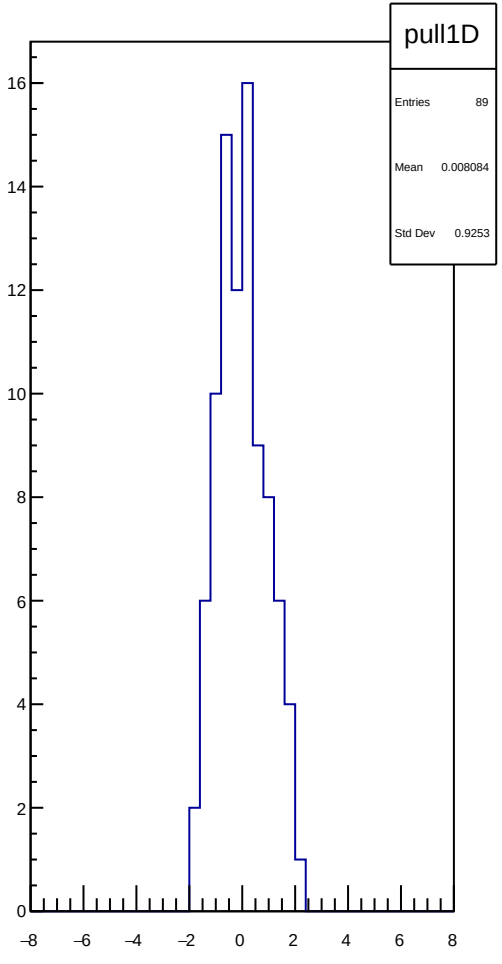

pull1D
Entries 89
Mean 0.008086
Std Dev 0.9253
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

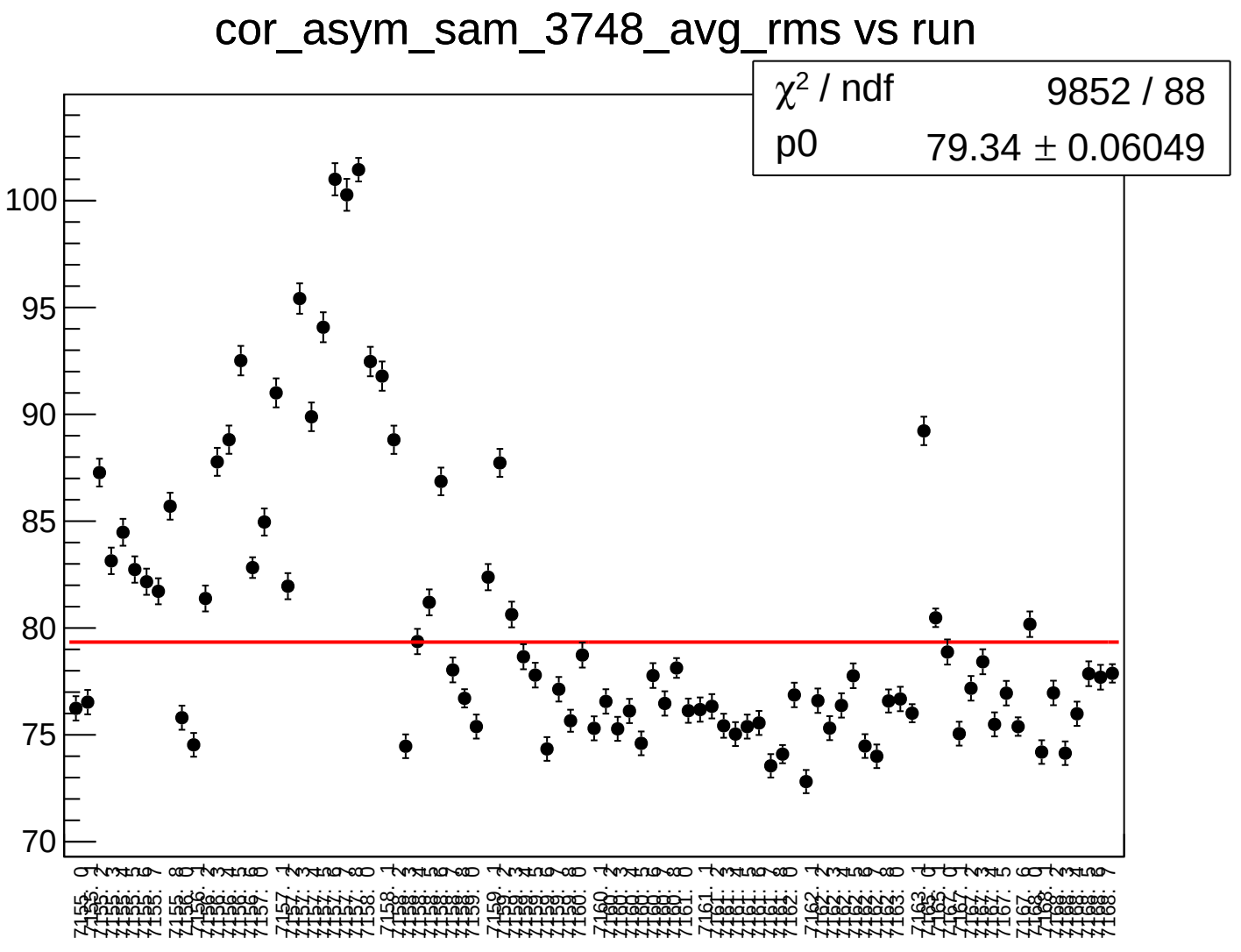

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9852 / 88
p0 79.34 ± 0.06049
100
95
90
85
80
75
70

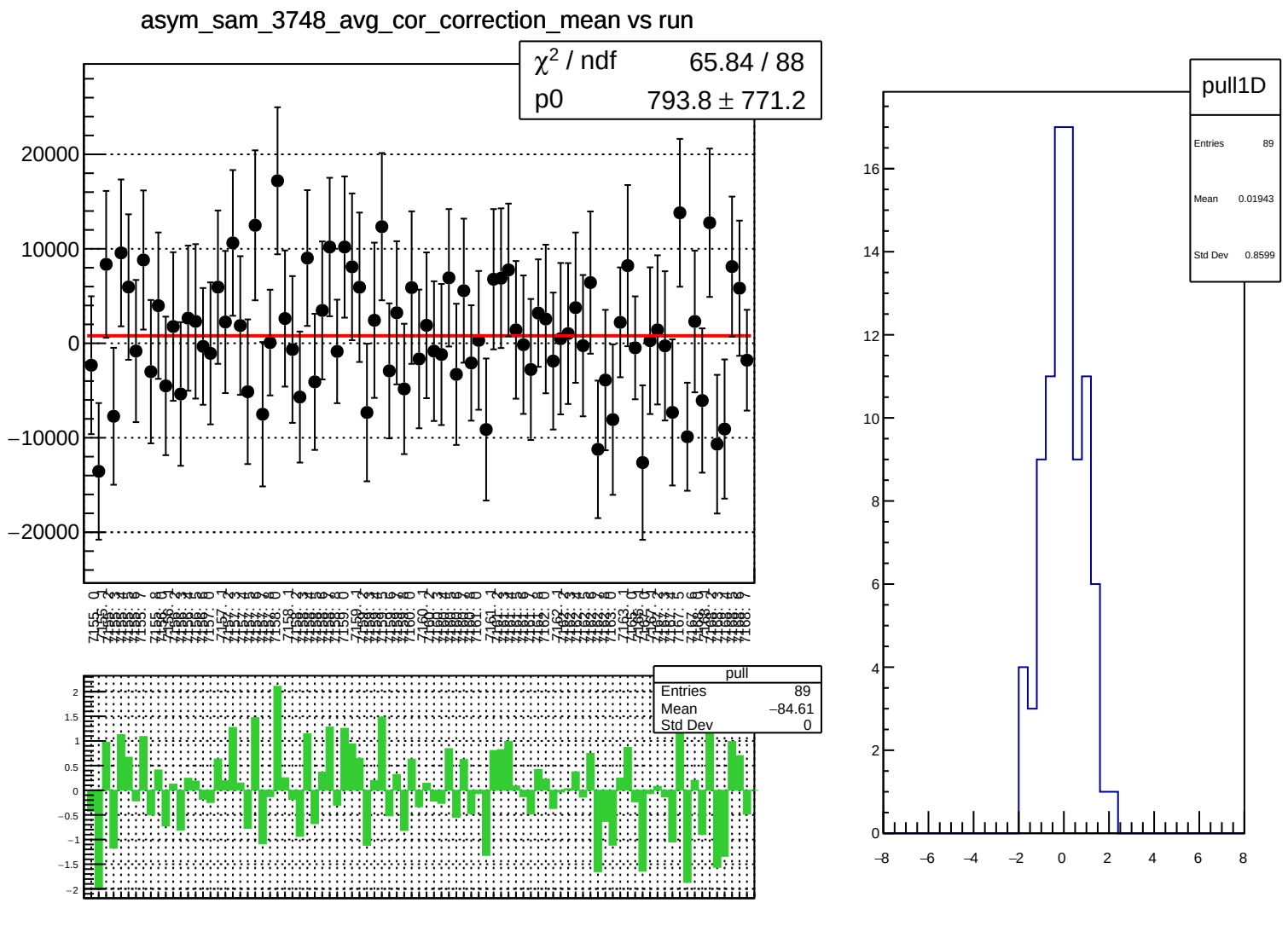

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 65.84 / 88
p0 793.8 ± 771.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −84.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01942
Std Dev 0.8599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

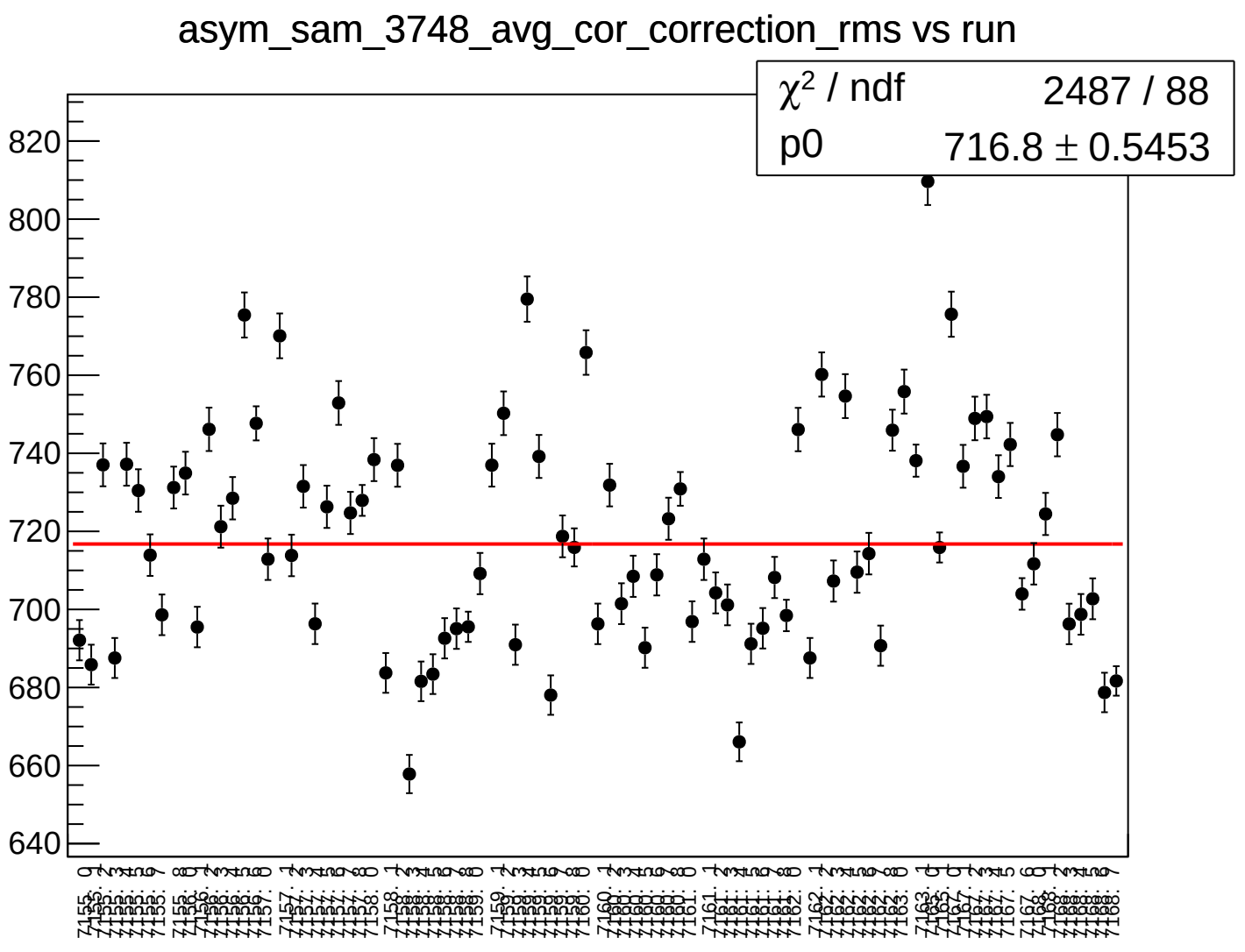

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 2487 / 88
p0 716.8 ± 0.5453
820
800
780
760
740
720
700
680
660
640

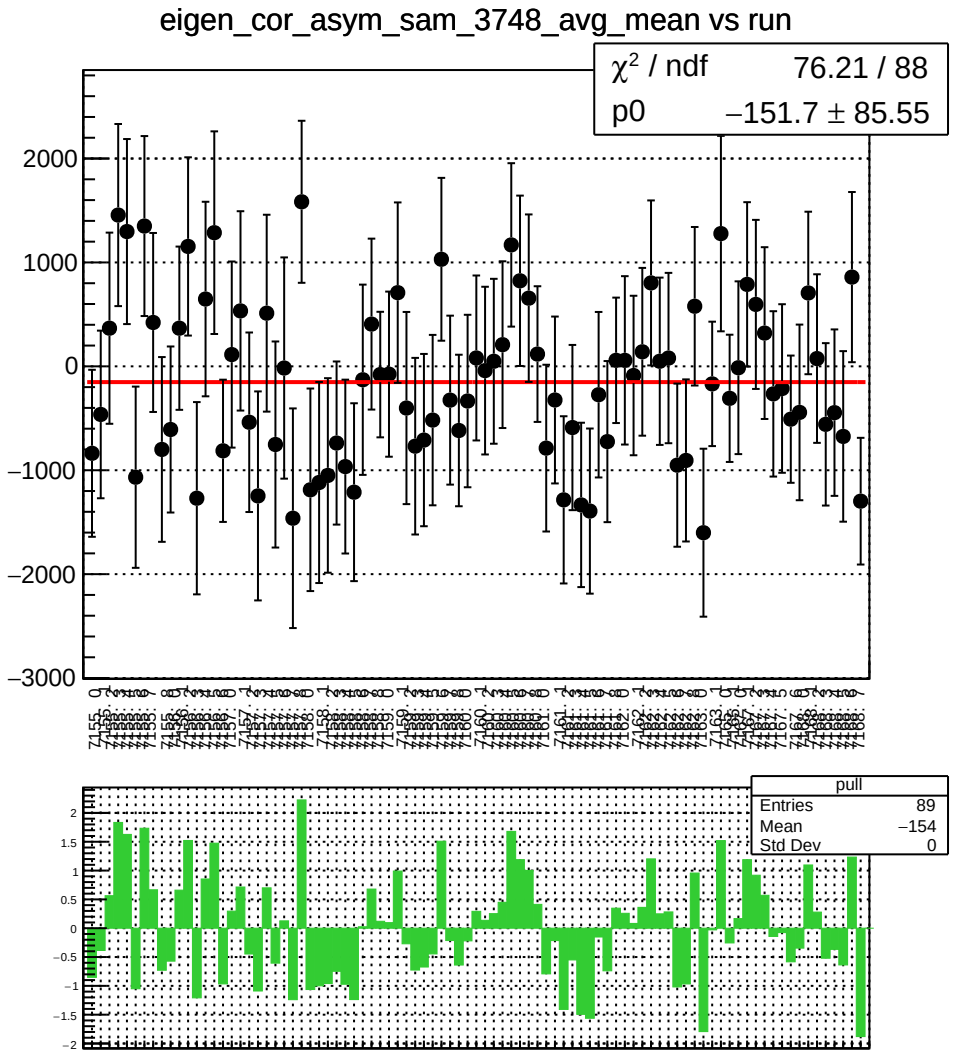

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 76.21 / 88
p0 −151.7 ± 85.55
pull
Entries 89
Mean −154
Std Dev 0

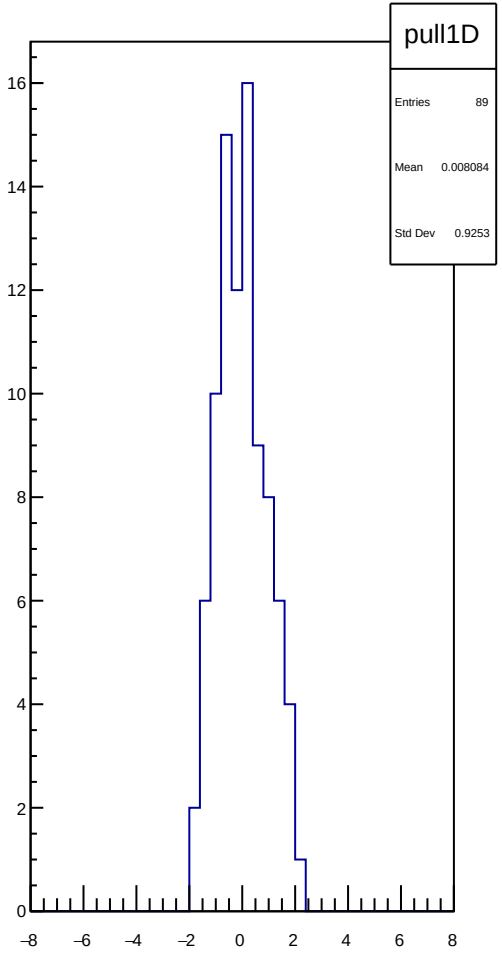

pull1D
Entries 89
Mean 0.008084
Std Dev 0.9253

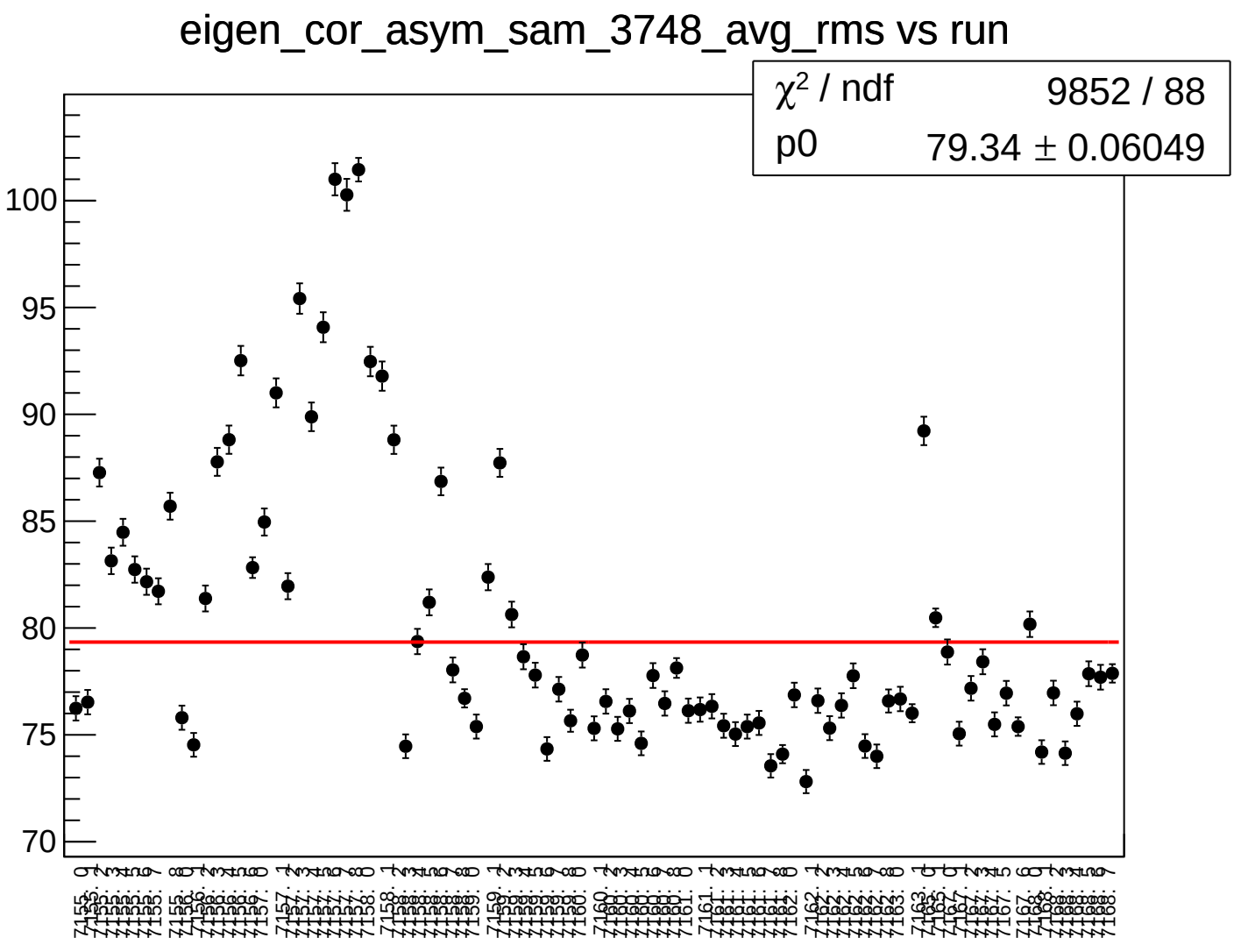

cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9852 / 88
p0 79.34 ± 0.06049
100
95
90
85
80
75
70

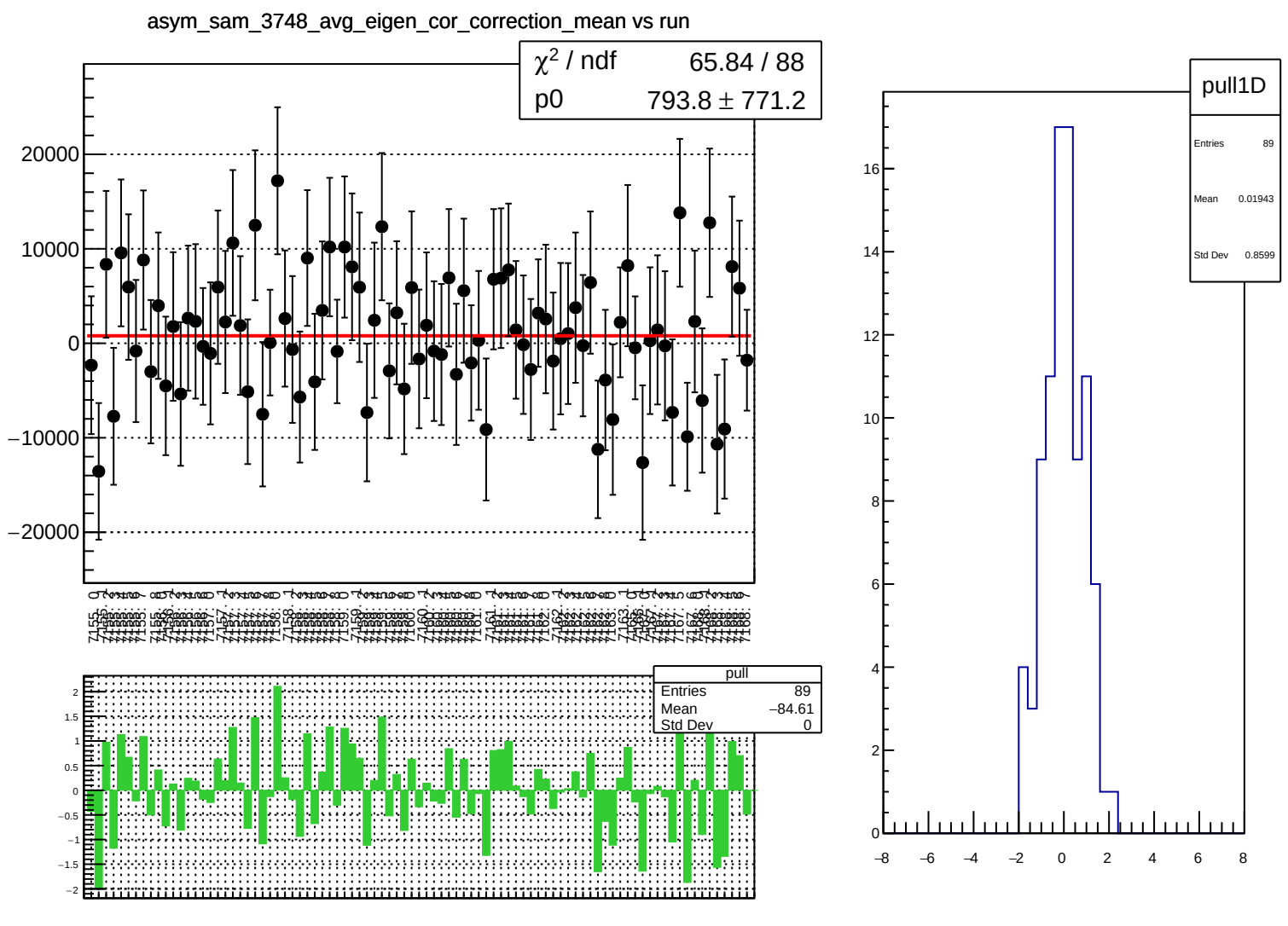

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 65.84 / 88
p0 793.8 ± 771.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −84.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01943
Std Dev 0.8599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

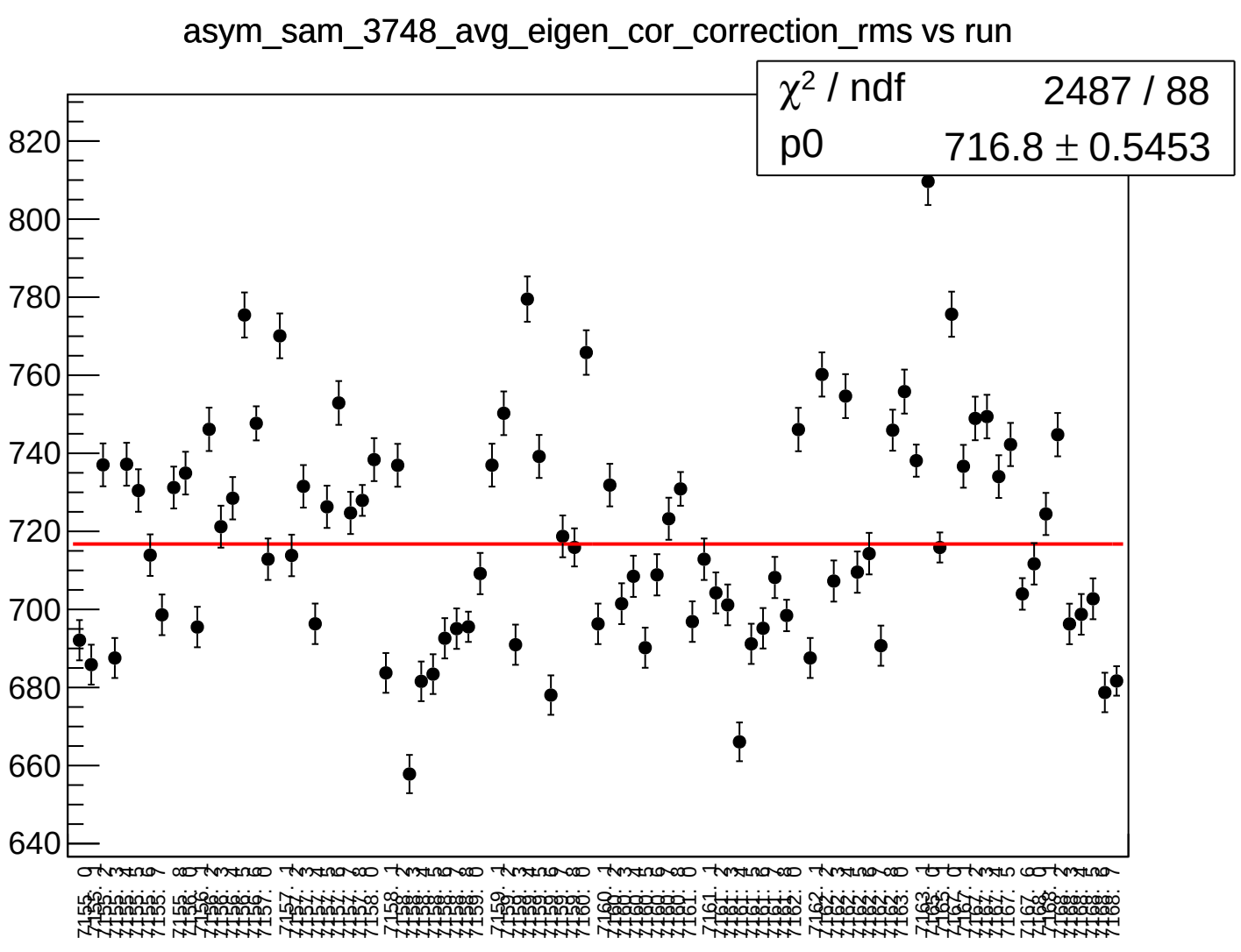

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 2487 / 88
p0 716.8 ± 0.5453
820
800
780
760
740
720
700
680
660
640

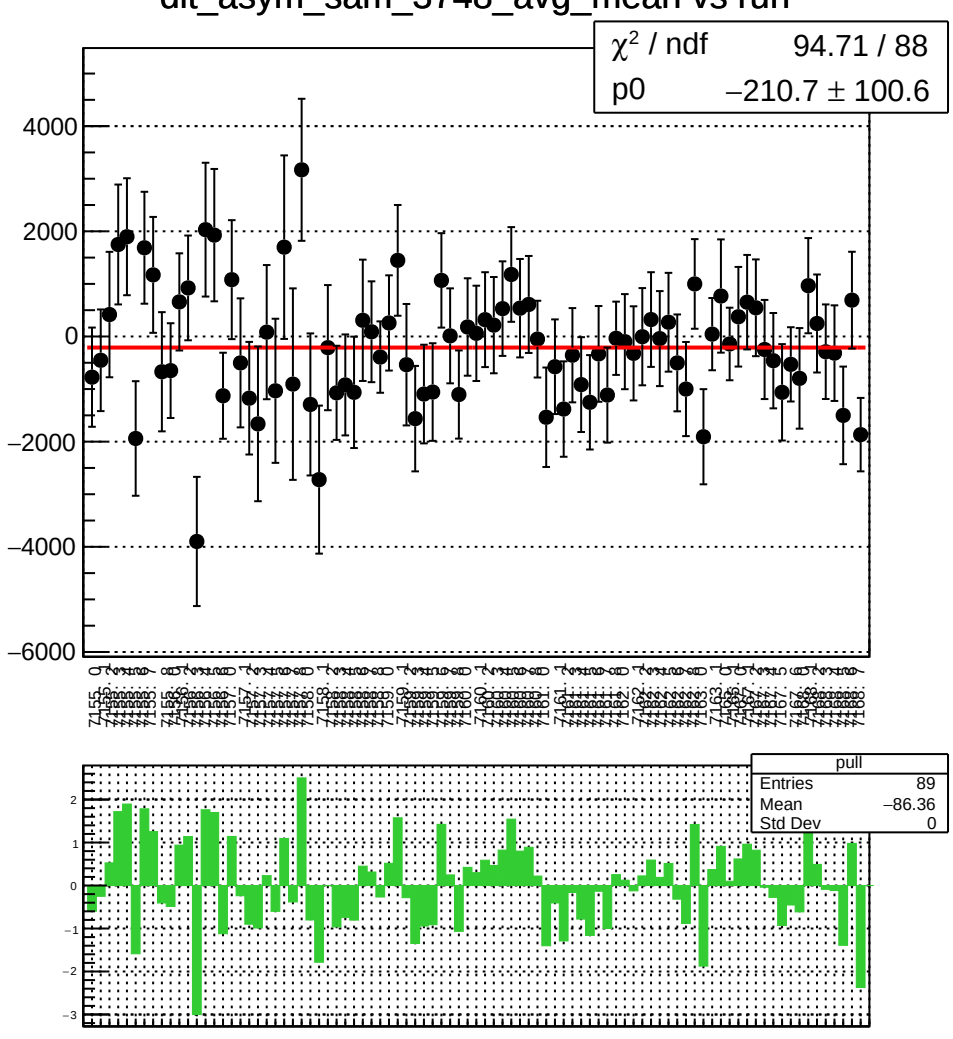

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 76.21 / 88
p0 −151.7 ± 85.55
pull
Entries 89
Mean −154
Std Dev 0

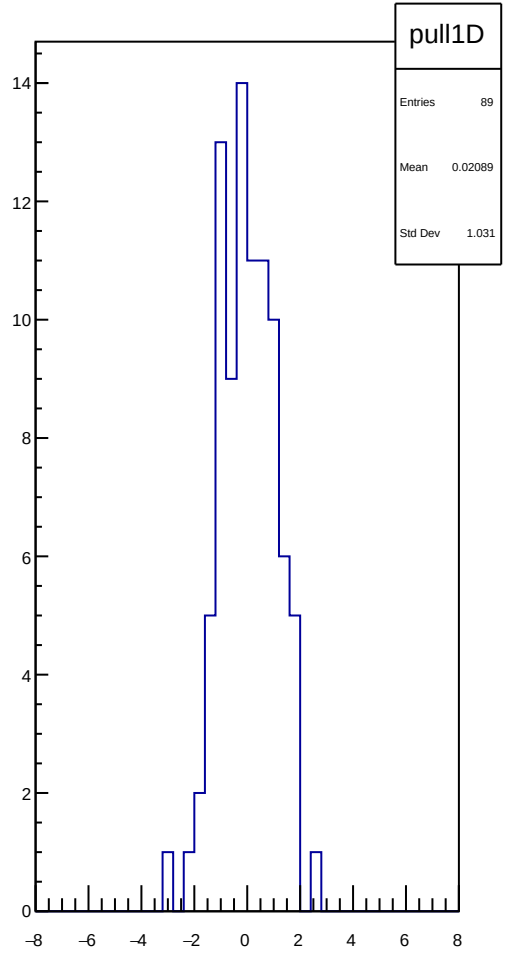

pull1D
Entries 89
Mean 0.008084
Std Dev 0.9253

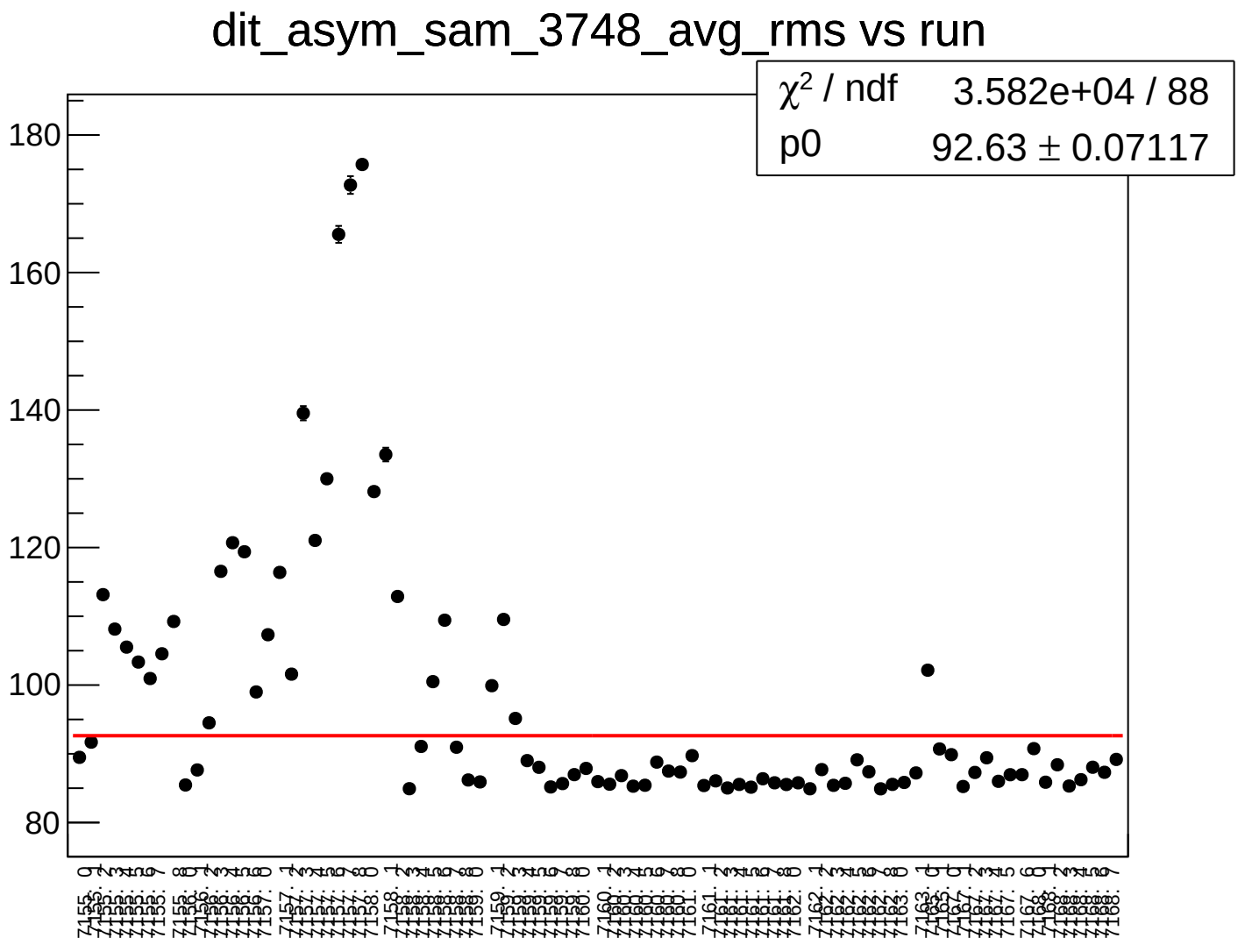

eigen_cor_asym_sam_3748_avg_rms vs run
χ^2 / ndf 9852 / 88
p0 79.34 ± 0.06049
100
95
90
85
80
75
70

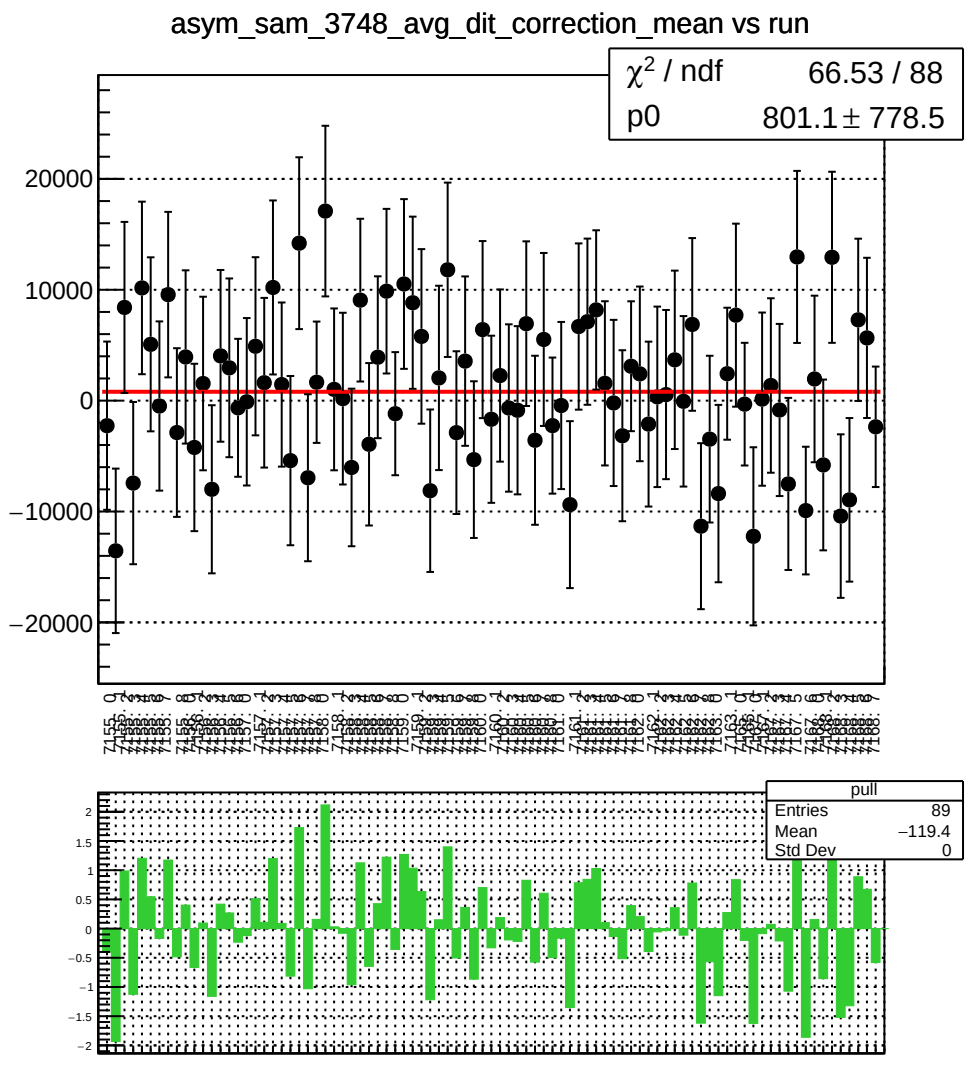

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.84 / 88
p0 793.8 ± 771.2
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −84.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01943
Std Dev 0.8599
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

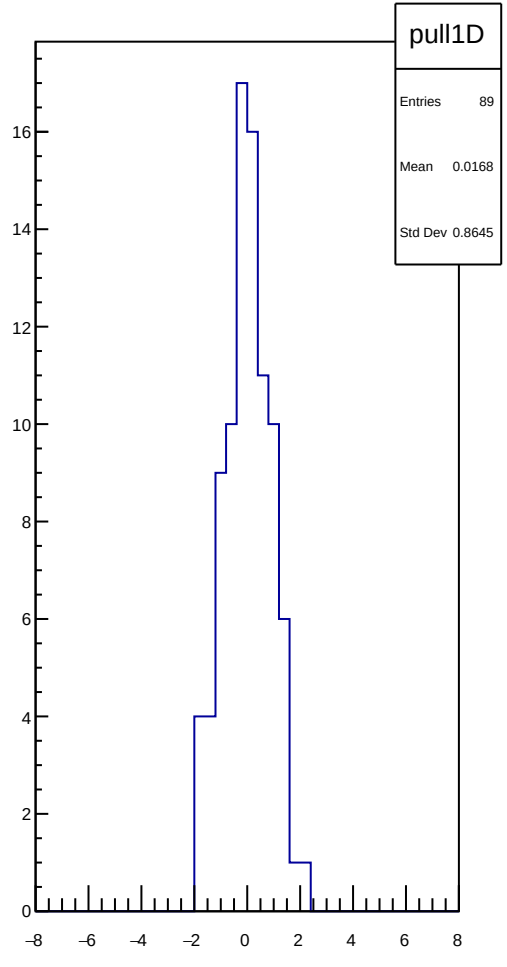

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 2487 / 88
p0 716.8 ± 0.5453
820
800
780
760
740
720
700
680
660
640

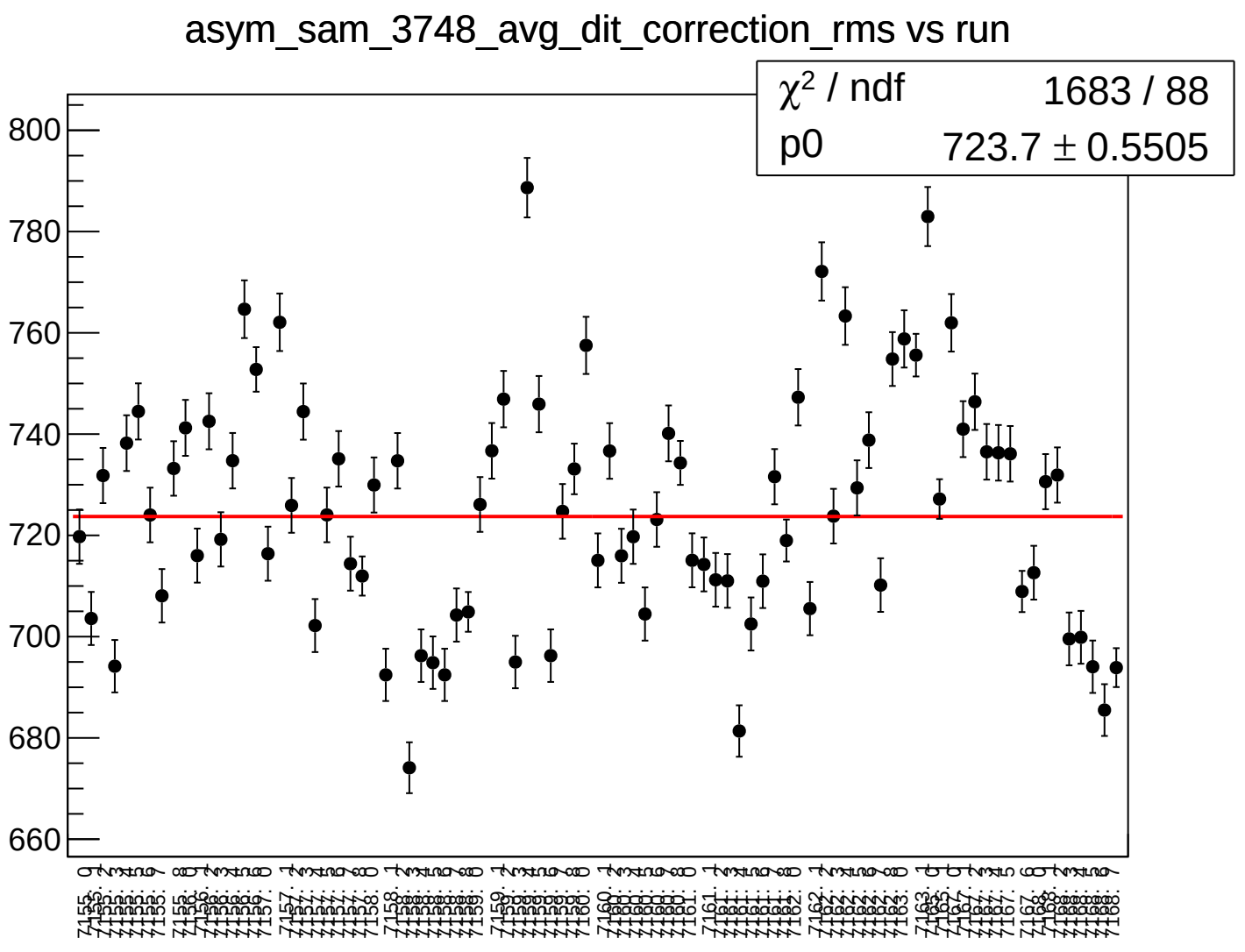

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 94.71 / 88
p0 −210.7 ± 100.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −86.36
Std Dev 0
2
1
0
−1
−2
−3

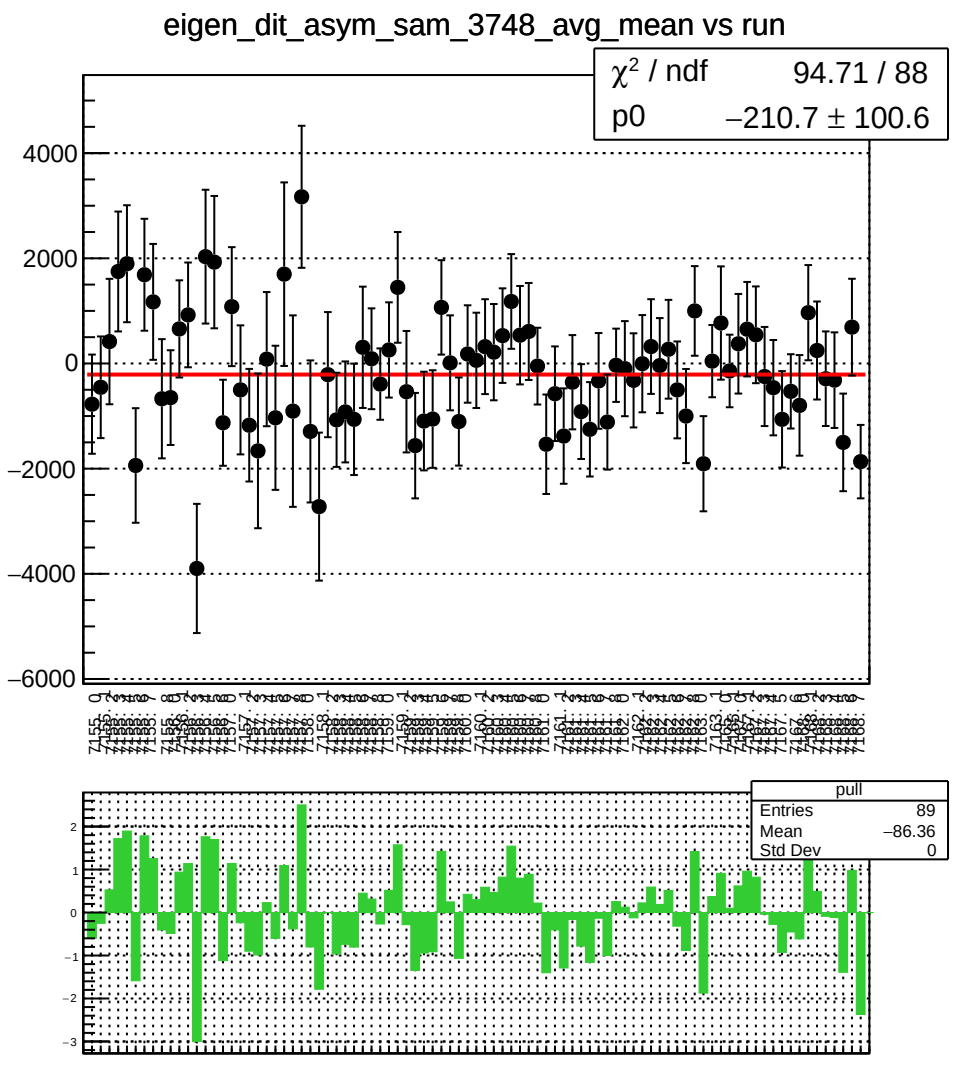

pull1D
Entries 89
Mean 0.02089
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

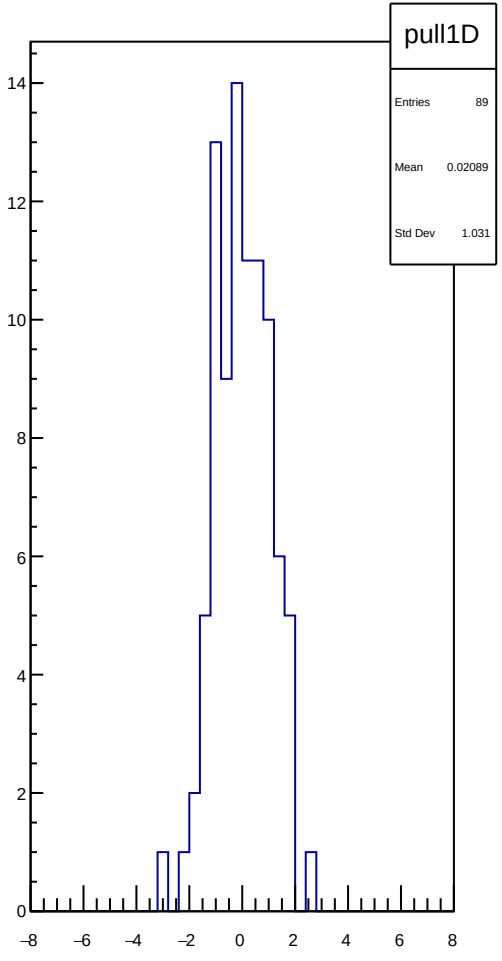

dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.582e+04 / 88
p0 92.63 ± 0.07117
180
160
140
120
100
80

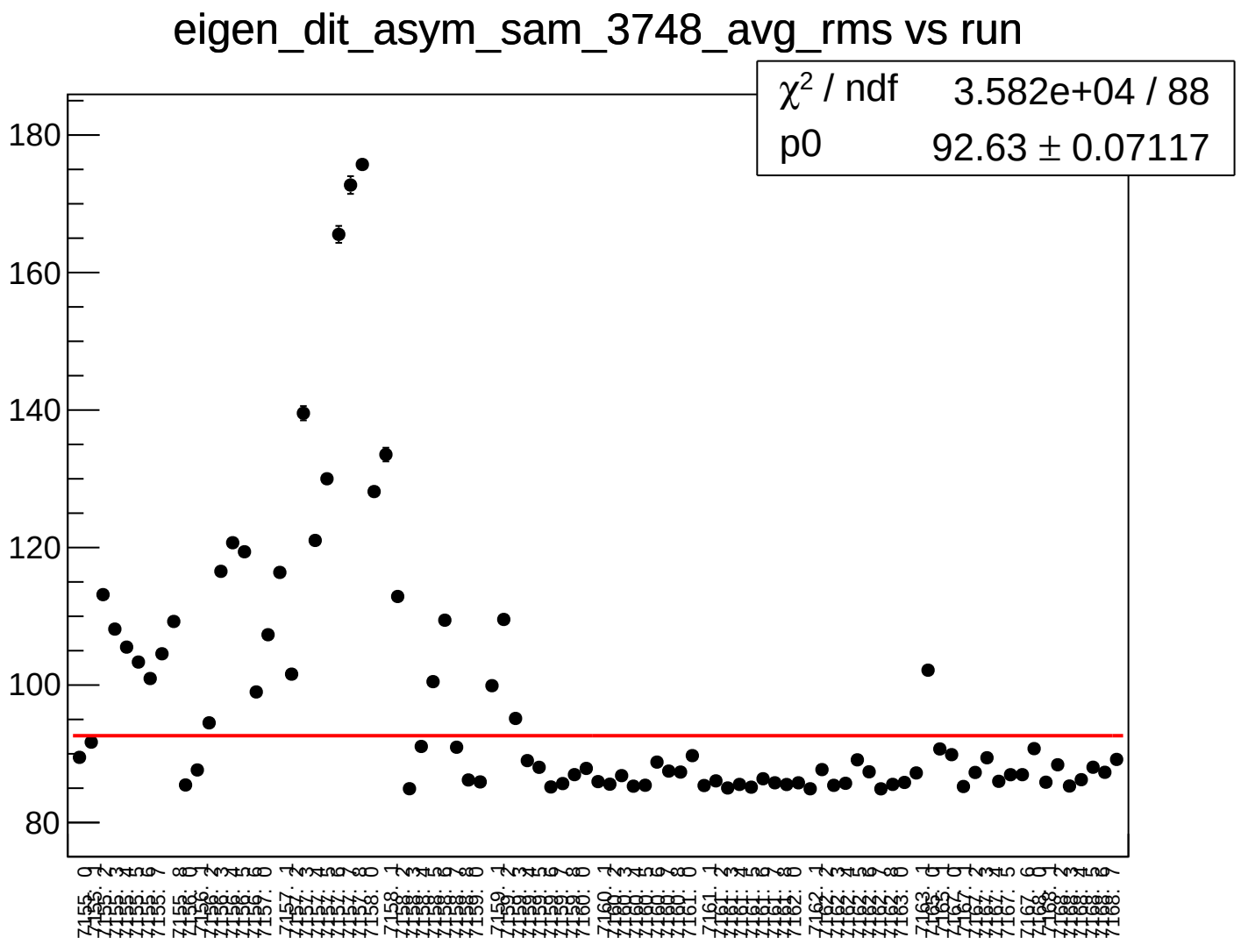

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 66.53 / 88
p0 801.1 ± 778.5
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −119.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

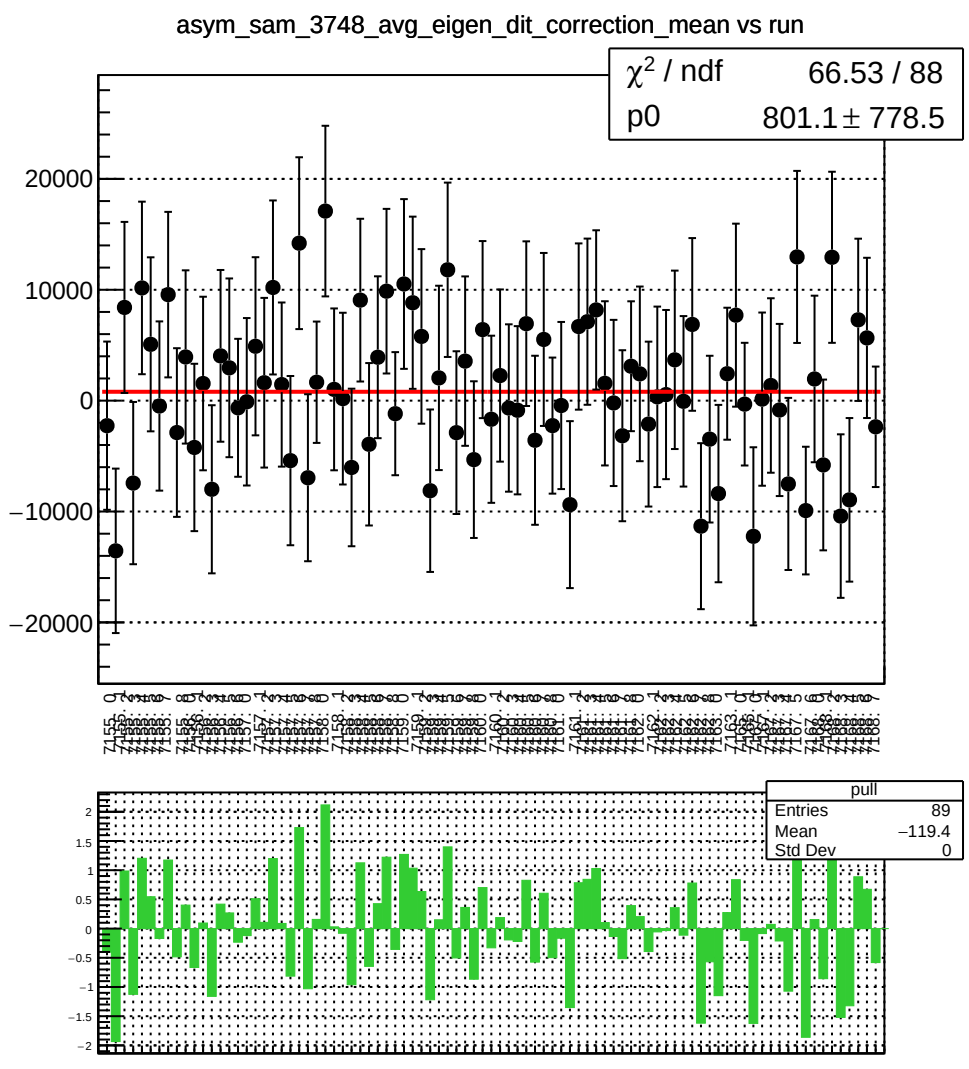

pull1D
Entries 89
Mean 0.0168
Std Dev 0.8645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

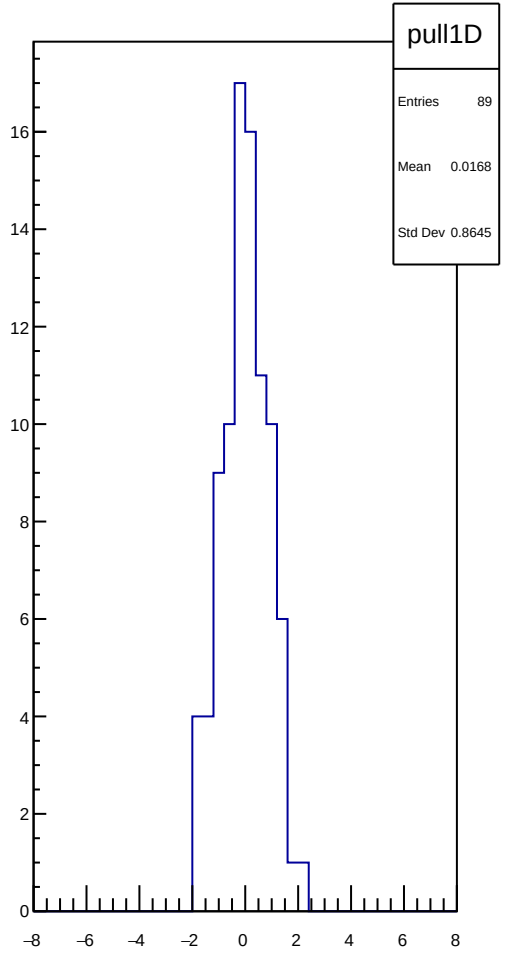

asym_sam_3748_avg_dit_correction_rms vs run
χ^2 / ndf 1683 / 88
p0 723.7 ± 0.5505
800
780
760
740
720
700
680
660

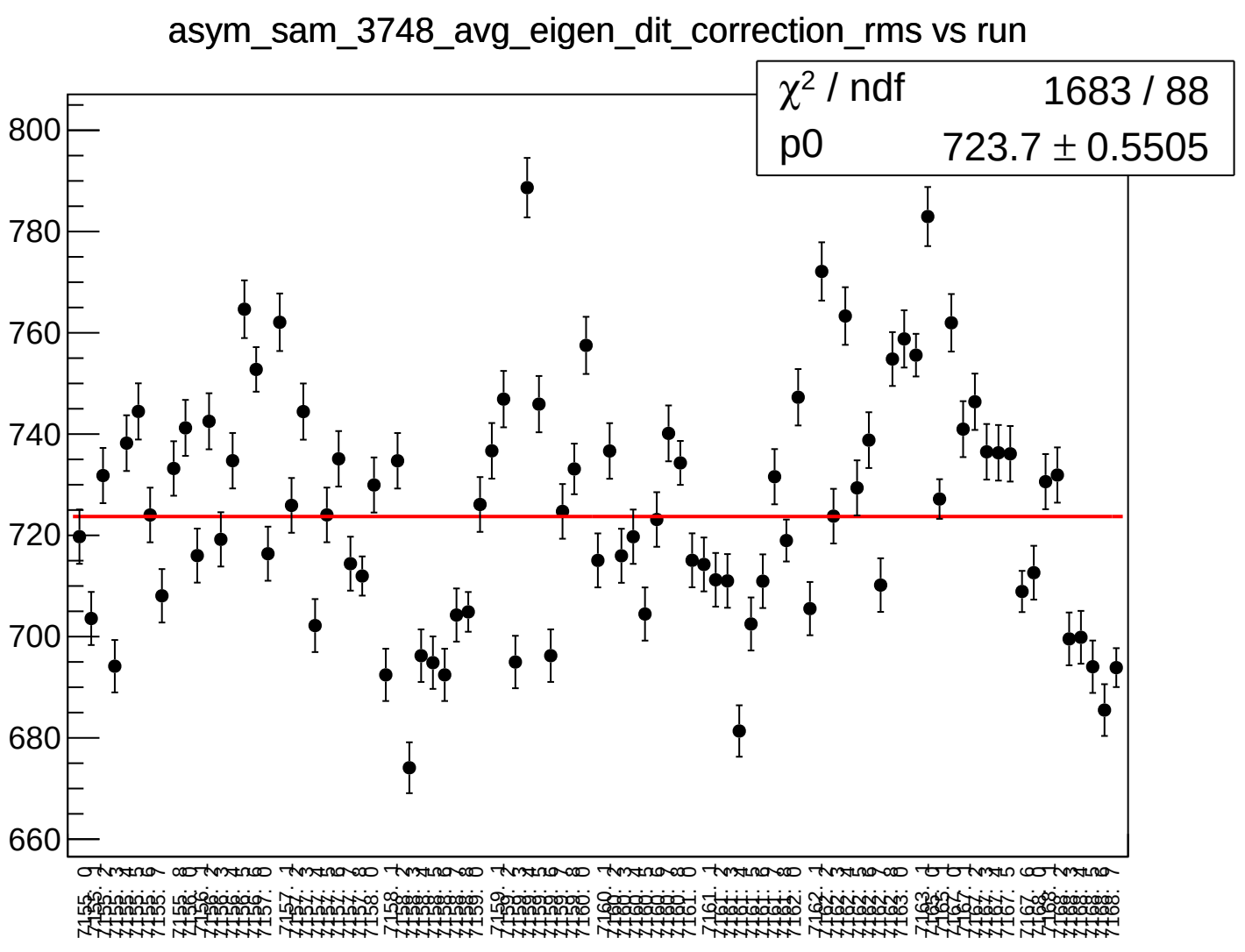

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 94.71 / 88
p0 −210.7 ± 100.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 89
Mean −86.36
Std Dev 0
2
1
0
−1
−2
−3

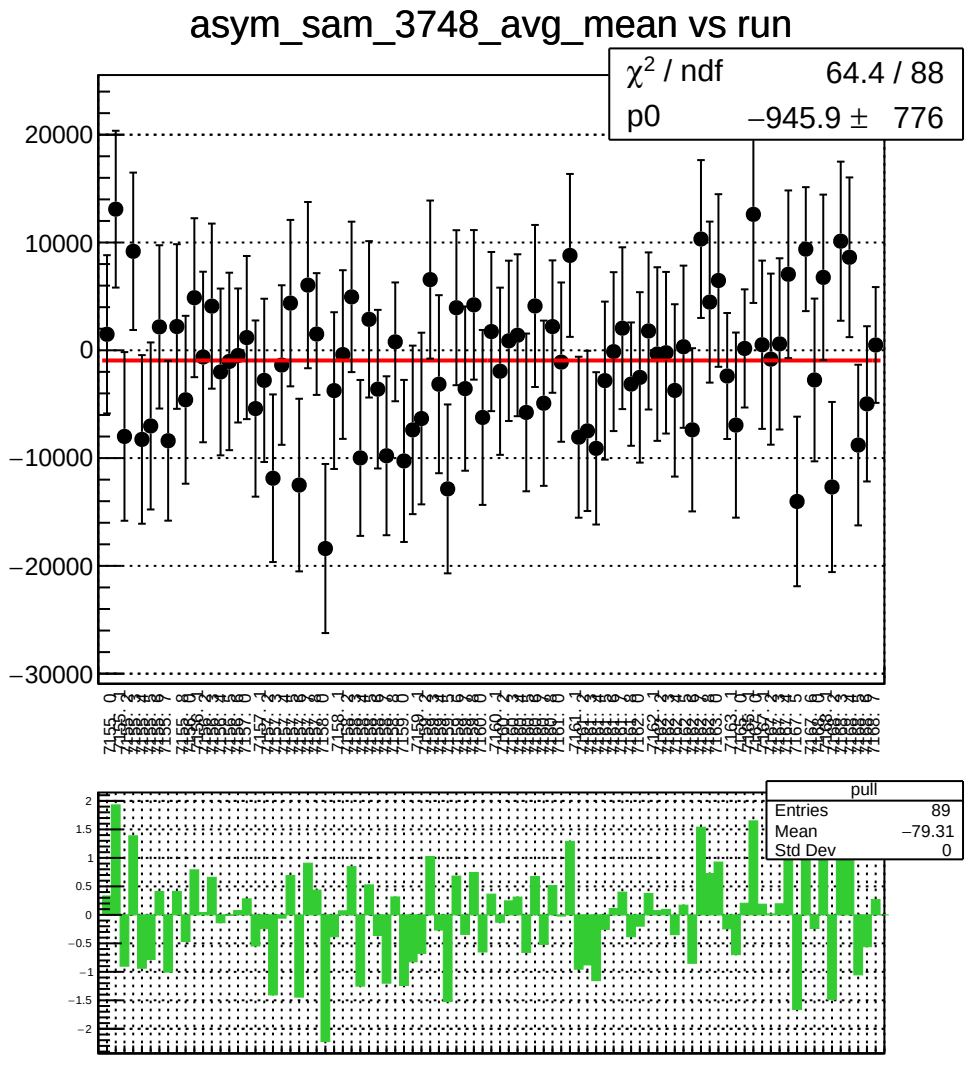

pull1D
Entries 89
Mean 0.02089
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

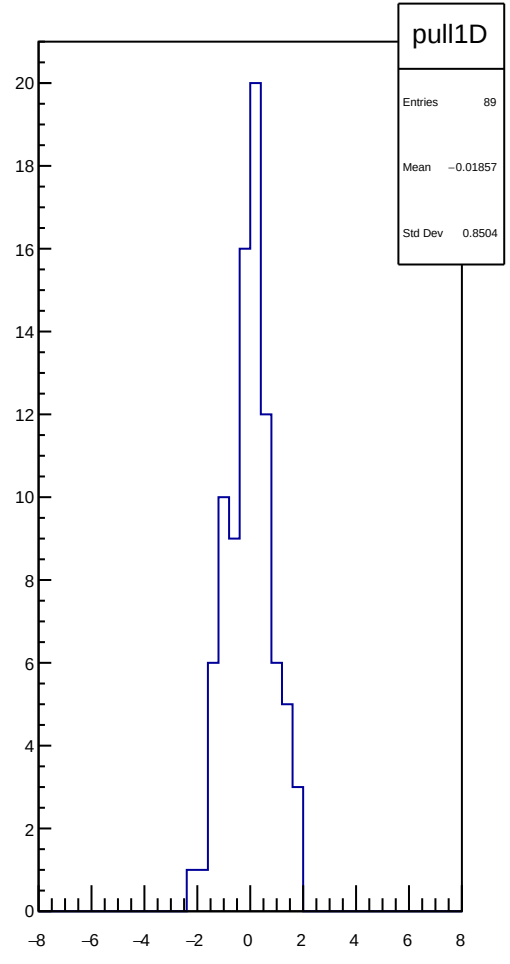

eigen_dit_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.582e+04 / 88
p0 92.63 ± 0.07117
180
160
140
120
100
80

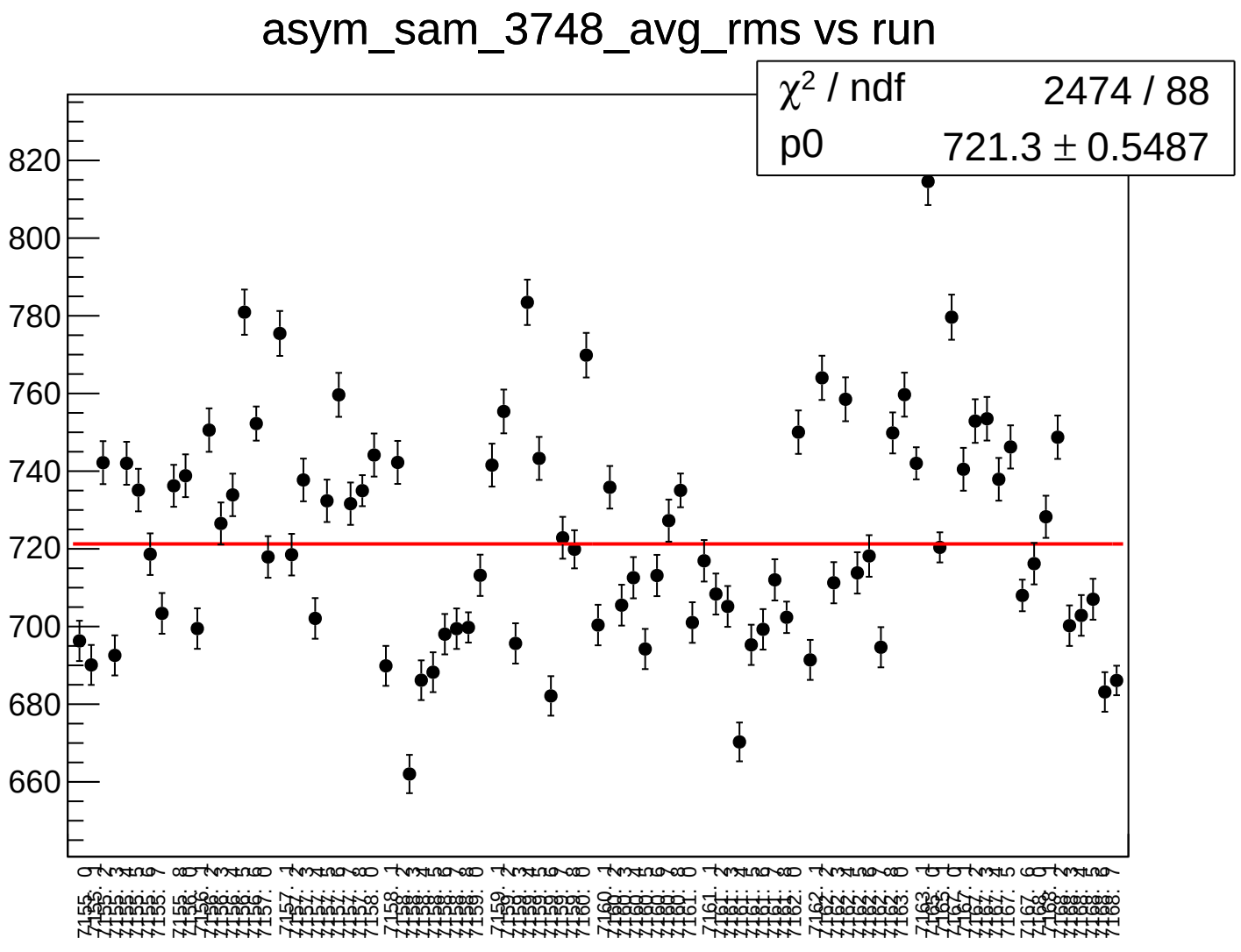

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.53 / 88
p0 801.1 ± 778.5
20000
10000
0
−10000
−20000
pull
Entries 89
Mean −119.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

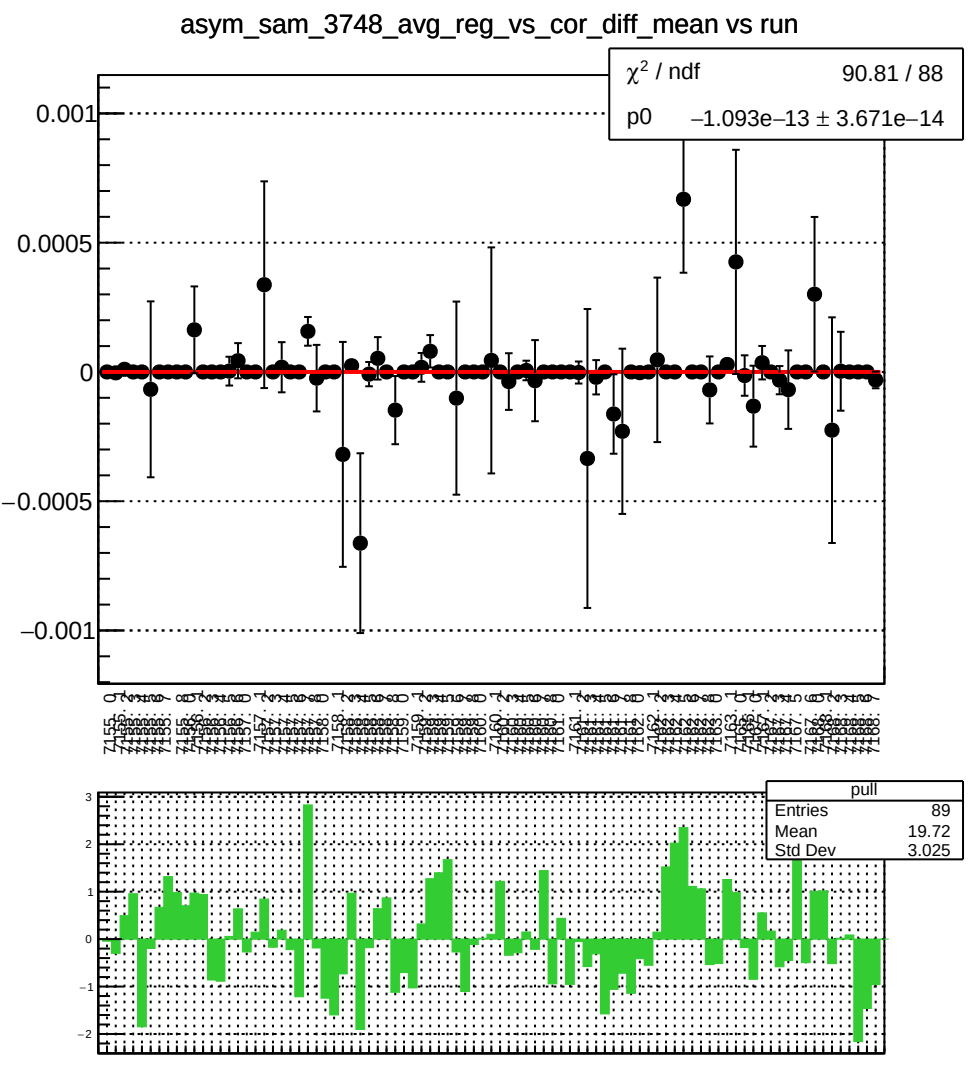

pull1D
Entries 89
Mean 0.0168
Std Dev 0.8645
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

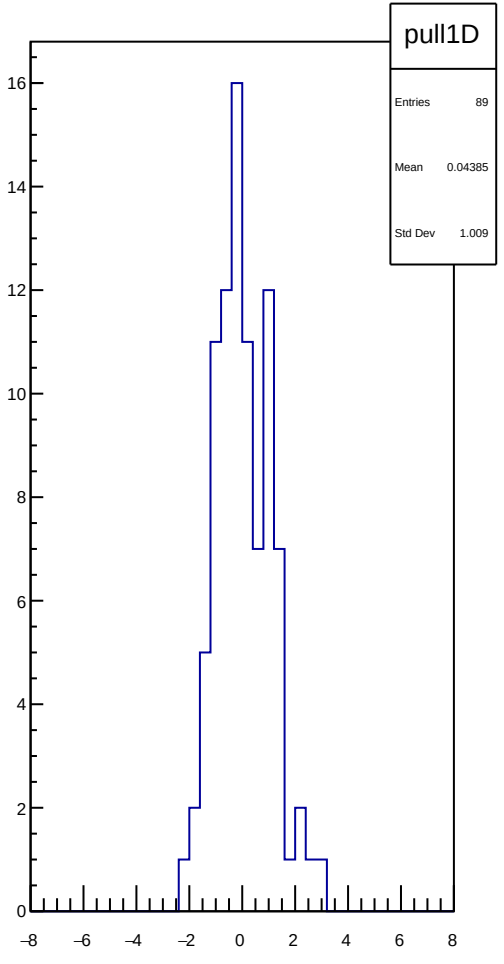

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 1683 / 88
p0 723.7 ± 0.5505
800
780
760
740
720
700
680
660

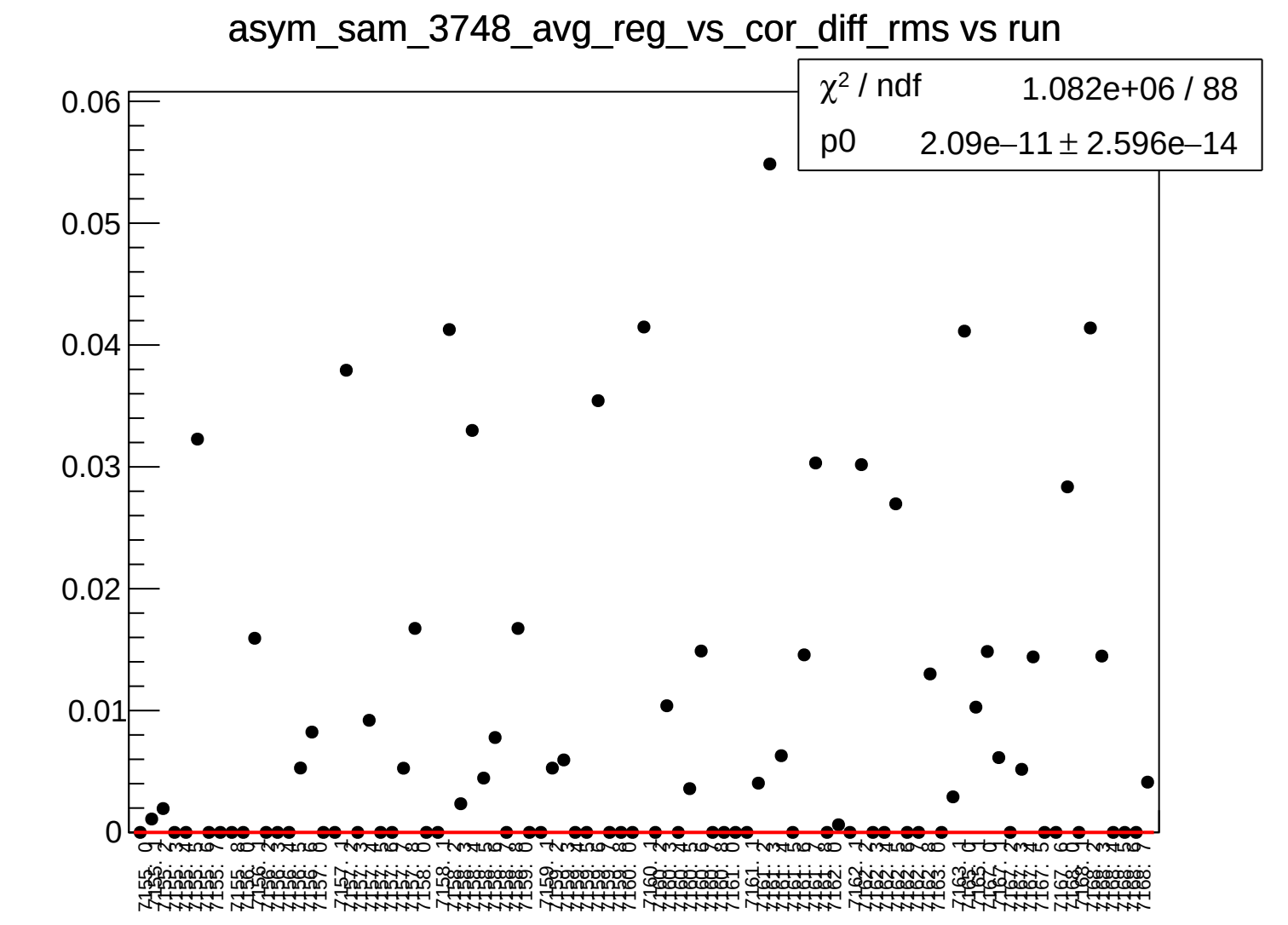

asym_sam_3748_avg_mean vs run
χ² / ndf 64.4 / 88
p0 −945.9 ± 776
20000
10000
0
−10000
−20000
−30000
pull
Entries 89
Mean −79.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

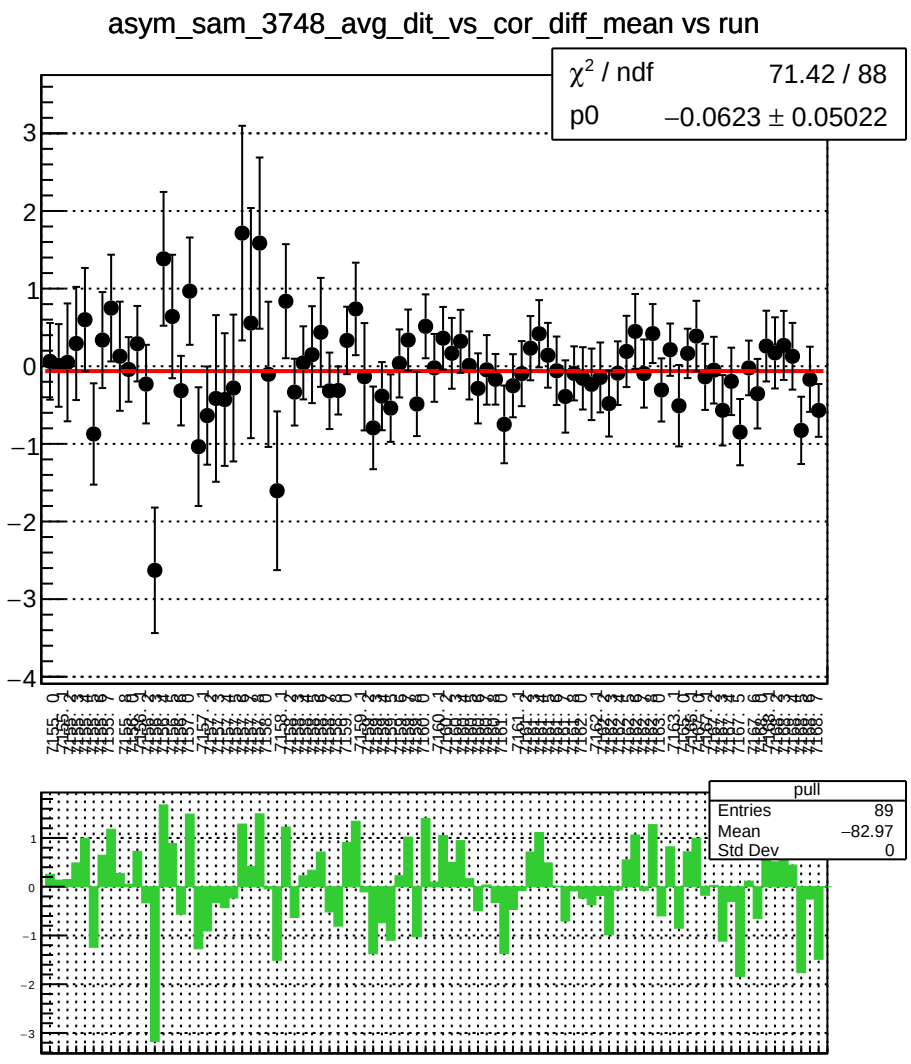

pull1D
Entries 89
Mean −0.01857
Std Dev 0.8504
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

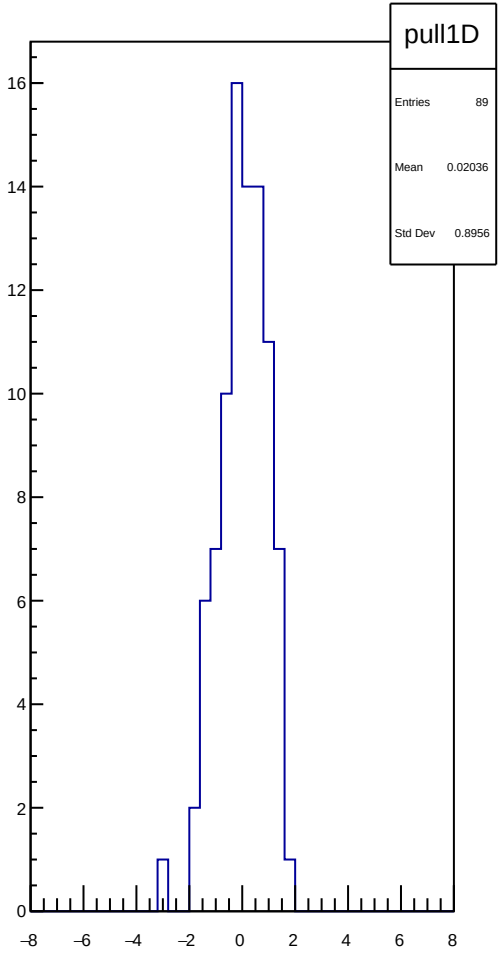

asym_sam_3748_avg_rms vs run
χ² / ndf 2474 / 88
p0 721.3 ± 0.5487
820
800
780
760
740
720
700
680
660

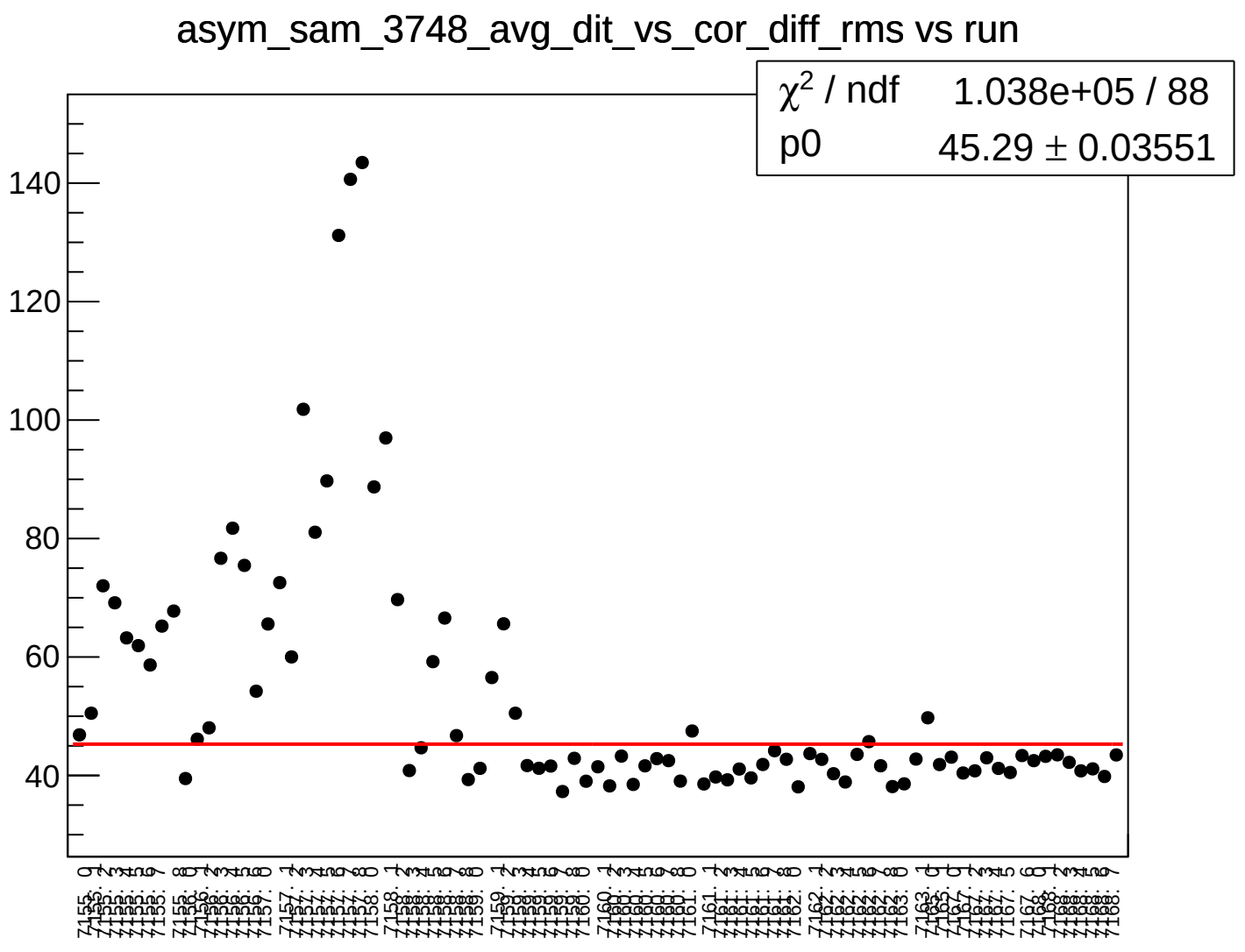

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 90.81 / 88
p0 −1.093e−13 ± 3.671e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 19.72
Std Dev 3.025
3
2
1
0
−1
−2

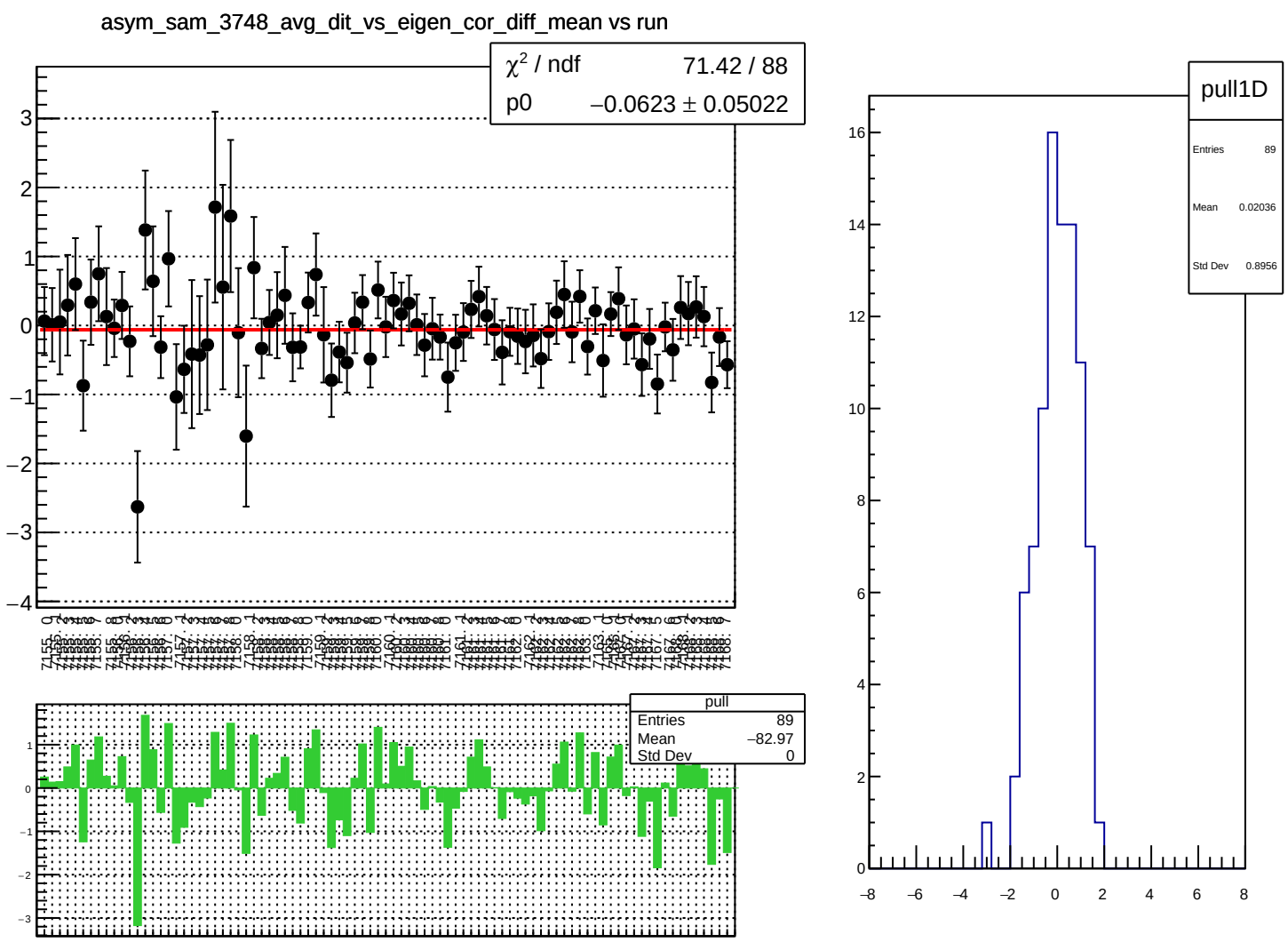

pull1D
Entries 89
Mean 0.04385
Std Dev 1.009
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

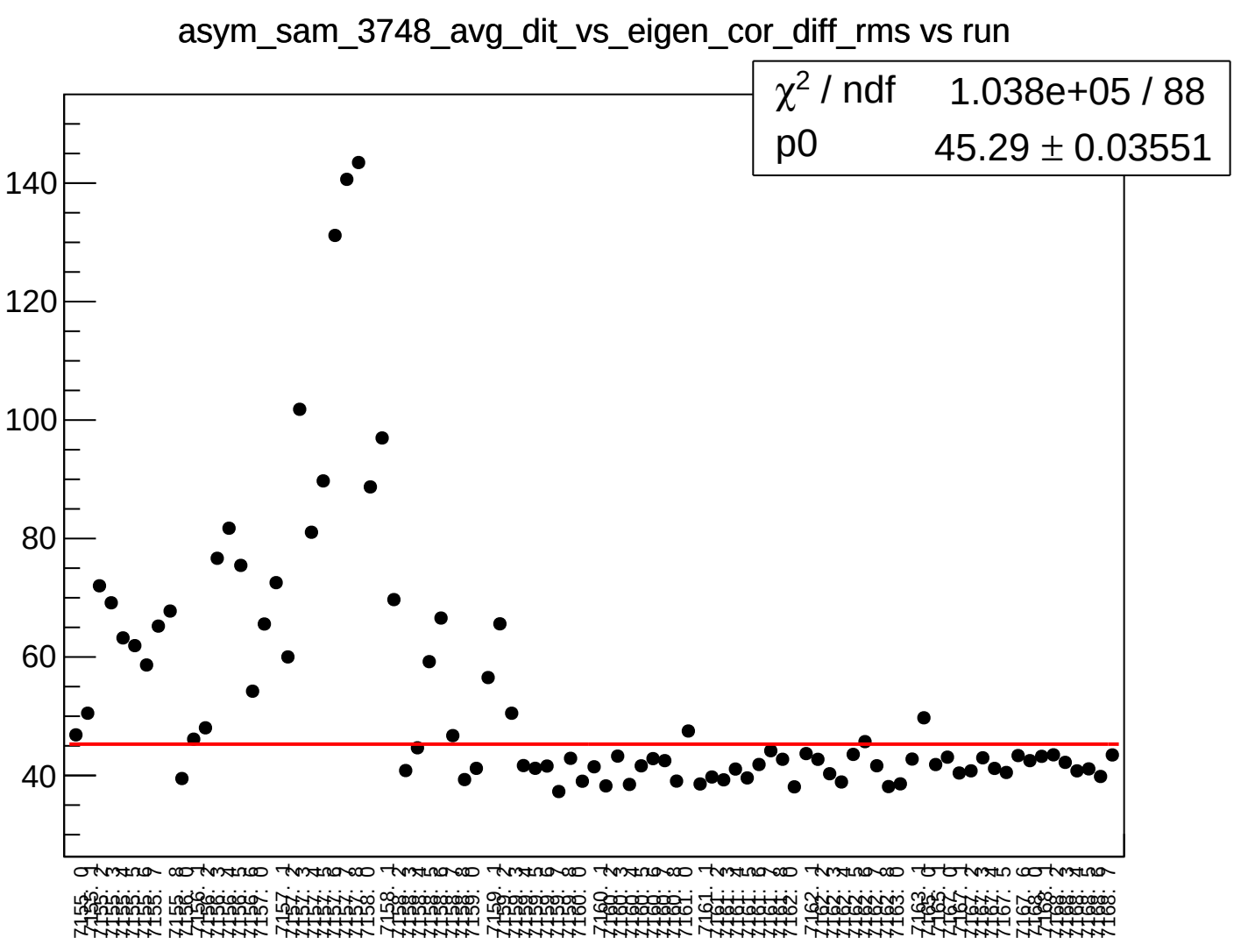

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 88
p0 2.09e−11 ± 2.596e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

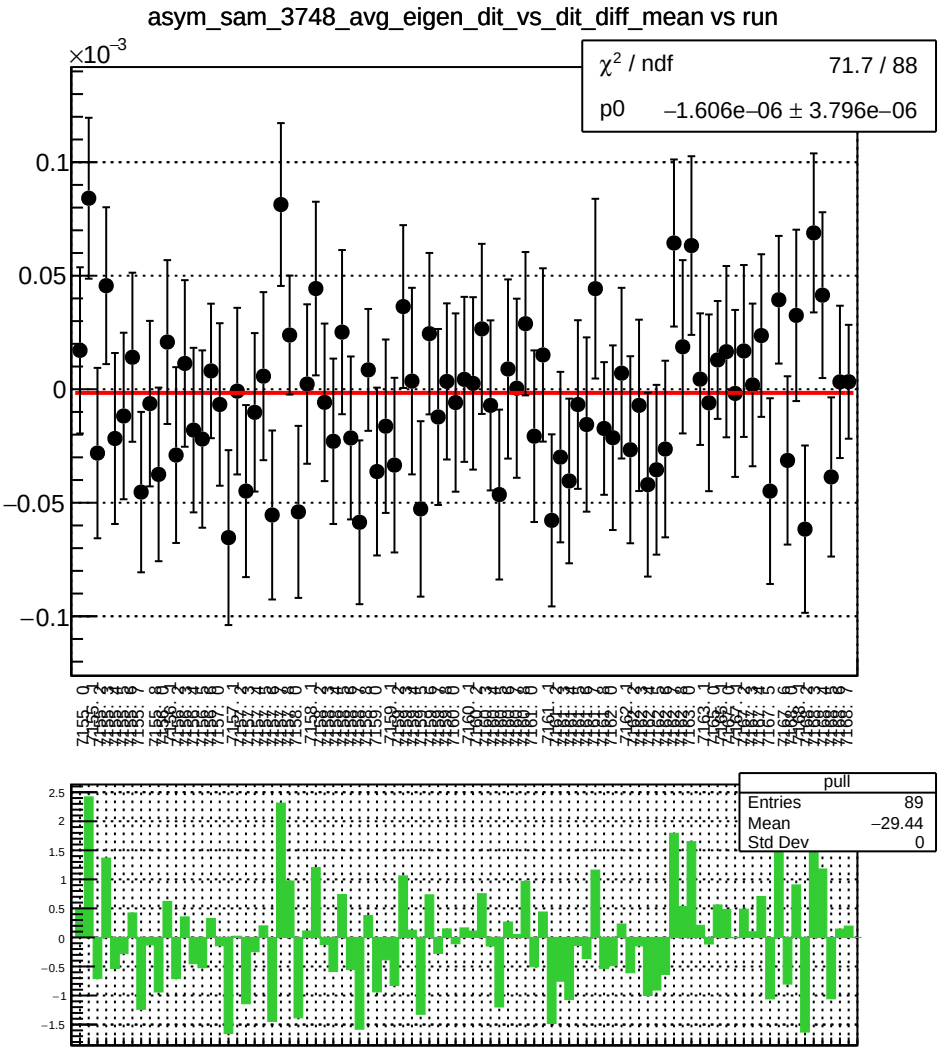

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.42 / 88
p0 −0.0623 ± 0.05022
pull
Entries 89
Mean −82.97
Std Dev 0

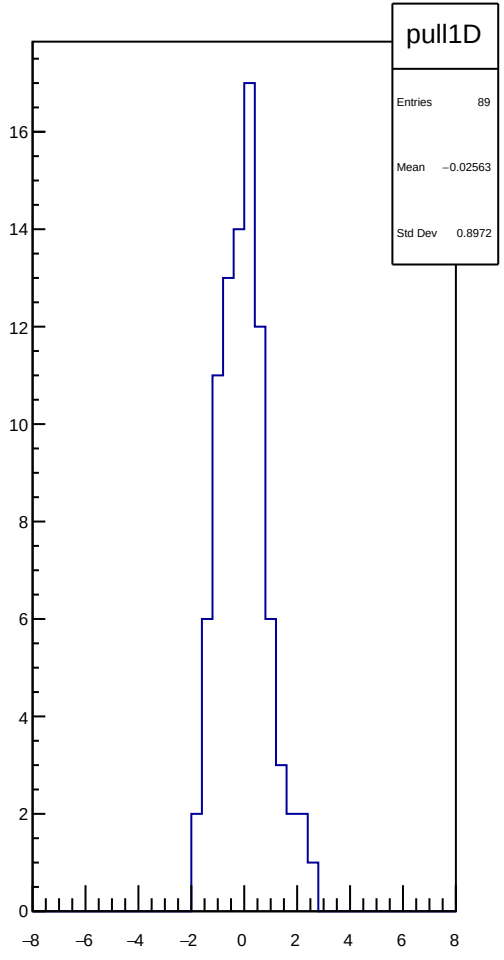

pull1D
Entries 89
Mean 0.02036
Std Dev 0.8956

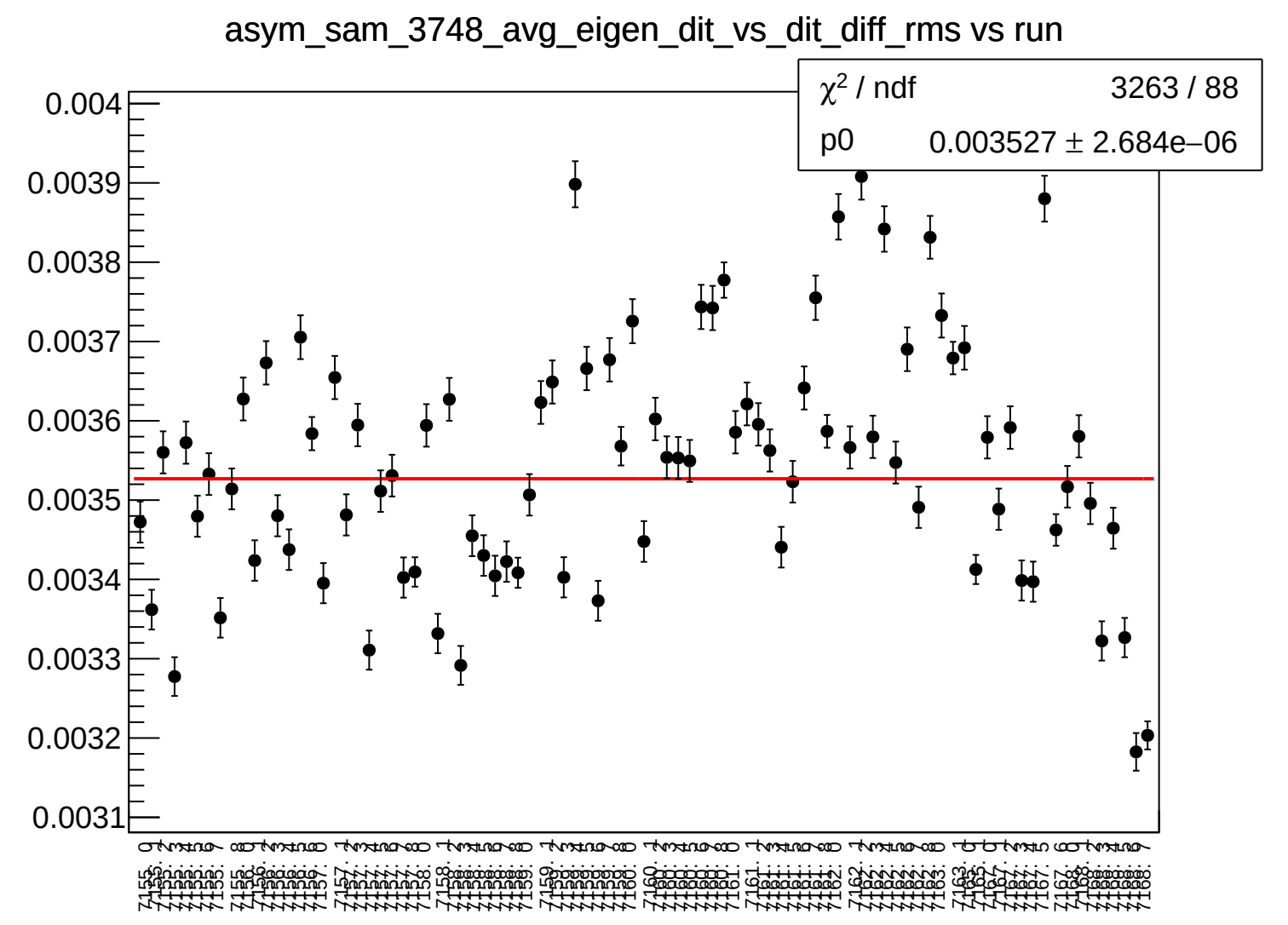

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.038e+05 / 88
p0 45.29 ± 0.03551
140
120
100
80
60
40

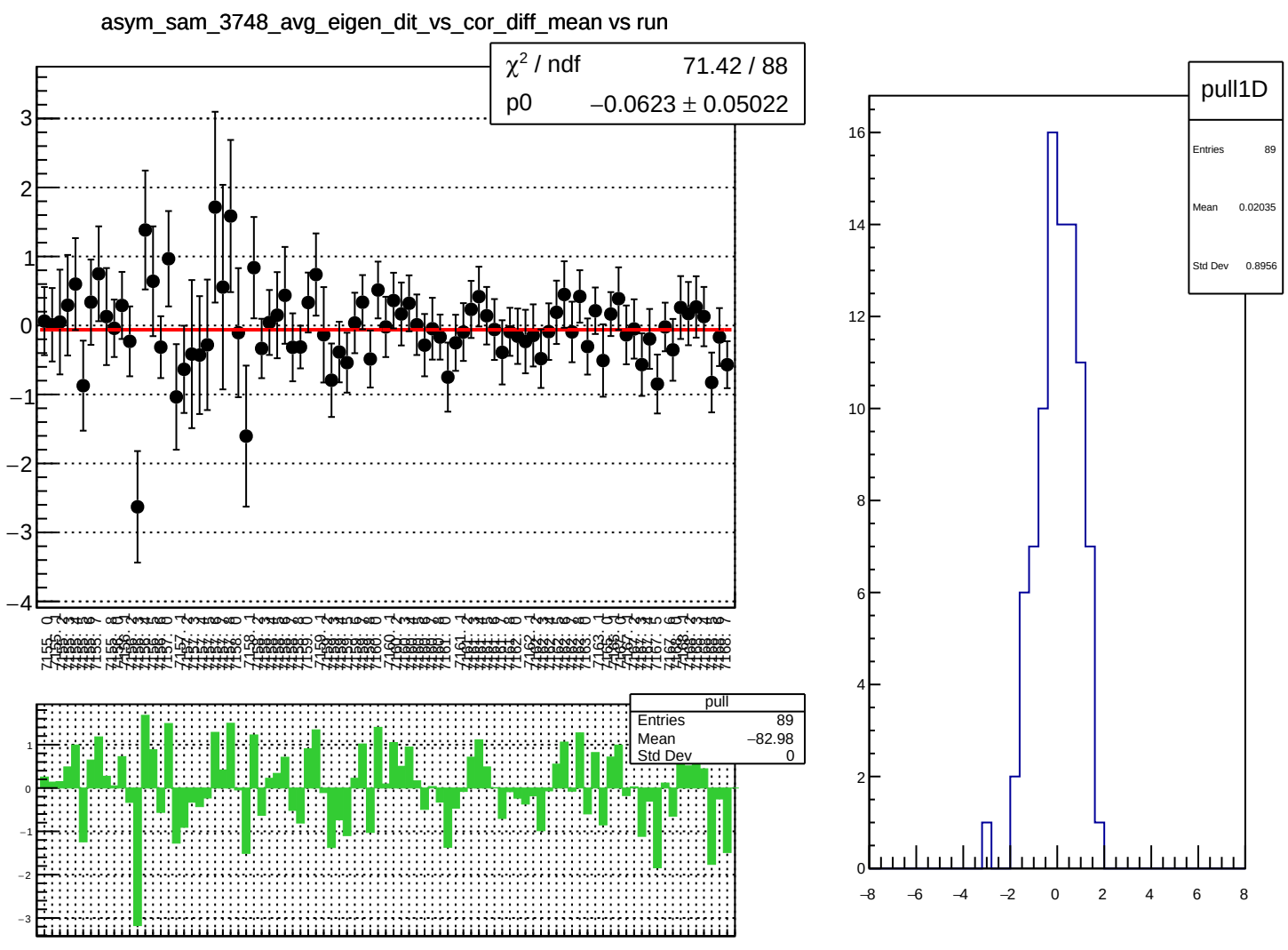

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.42 / 88
p0 −0.0623 ± 0.05022
pull
Entries 89
Mean −82.97
Std Dev 0
pull1D
Entries 89
Mean 0.02036
Std Dev 0.8956

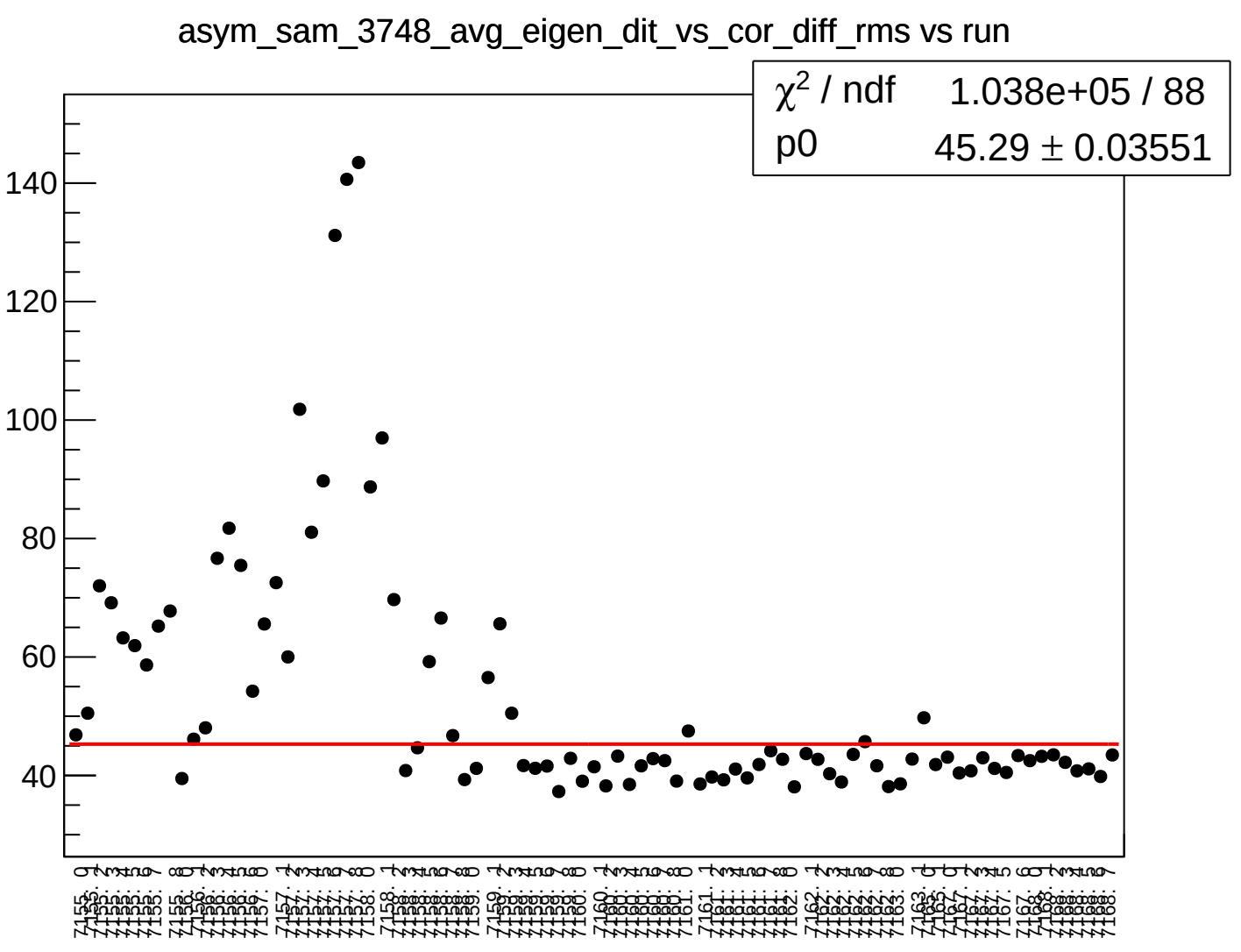

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.038e+05 / 88
p0 45.29 ± 0.03551
140
120
100
80
60
40

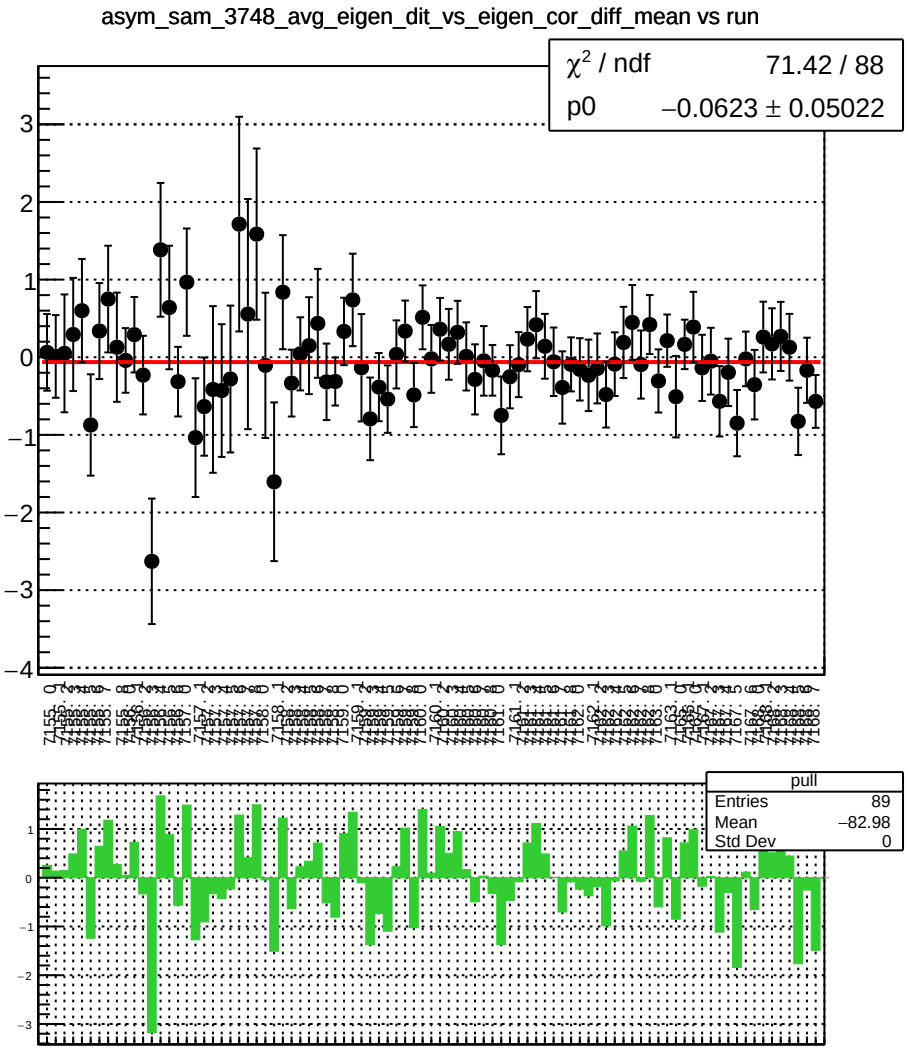

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.7 / 88
p0 −1.606e−06 ± 3.796e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −29.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

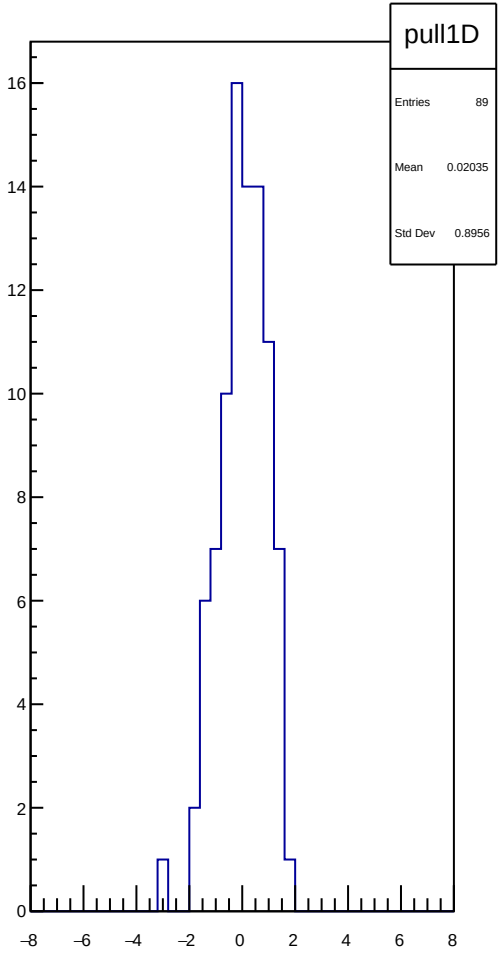

pull1D
Entries 89
Mean −0.02563
Std Dev 0.8972
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

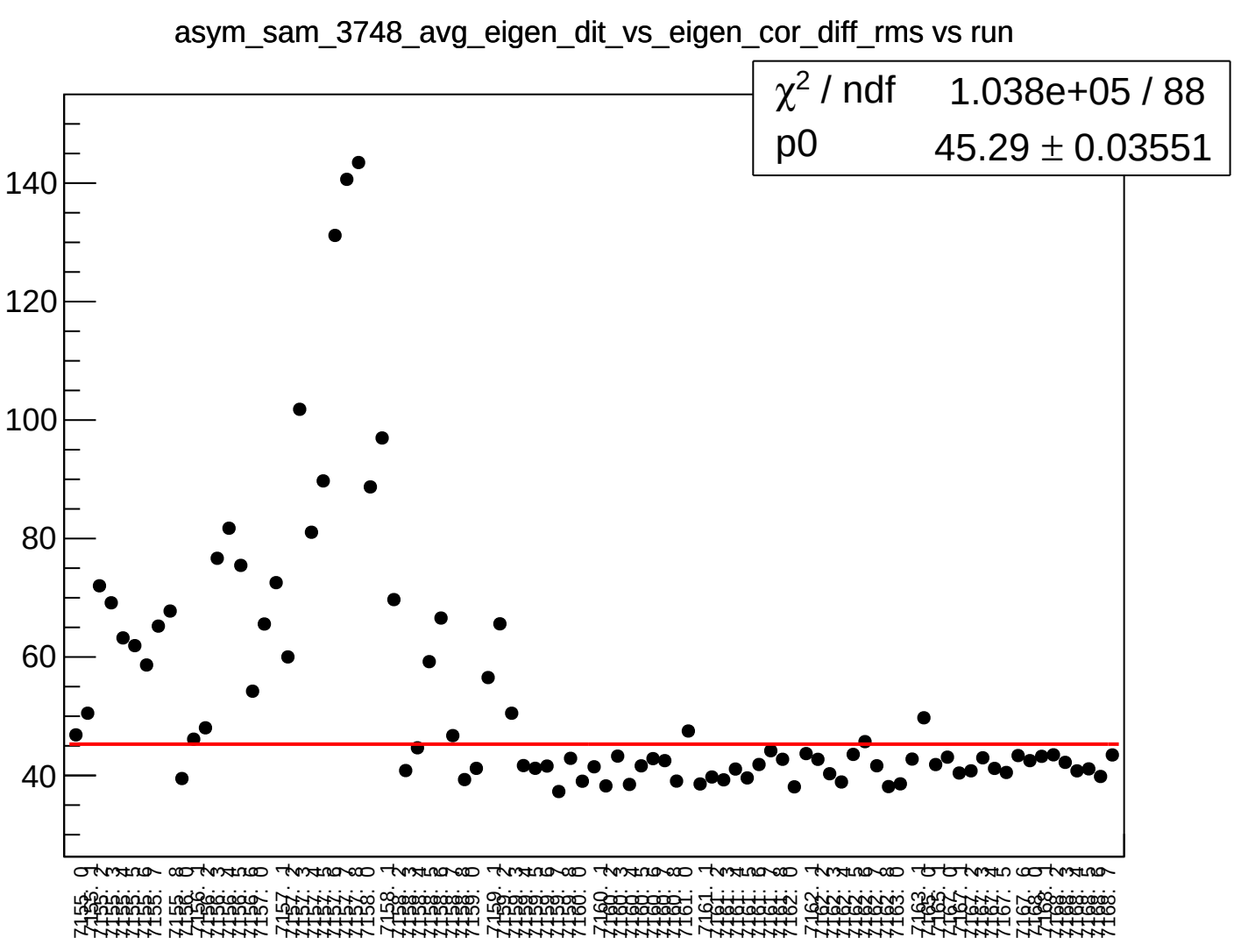

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3263 / 88
p0 0.003527 ± 2.684e−06
0.004
0.0039
0.0038
0.0037
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031

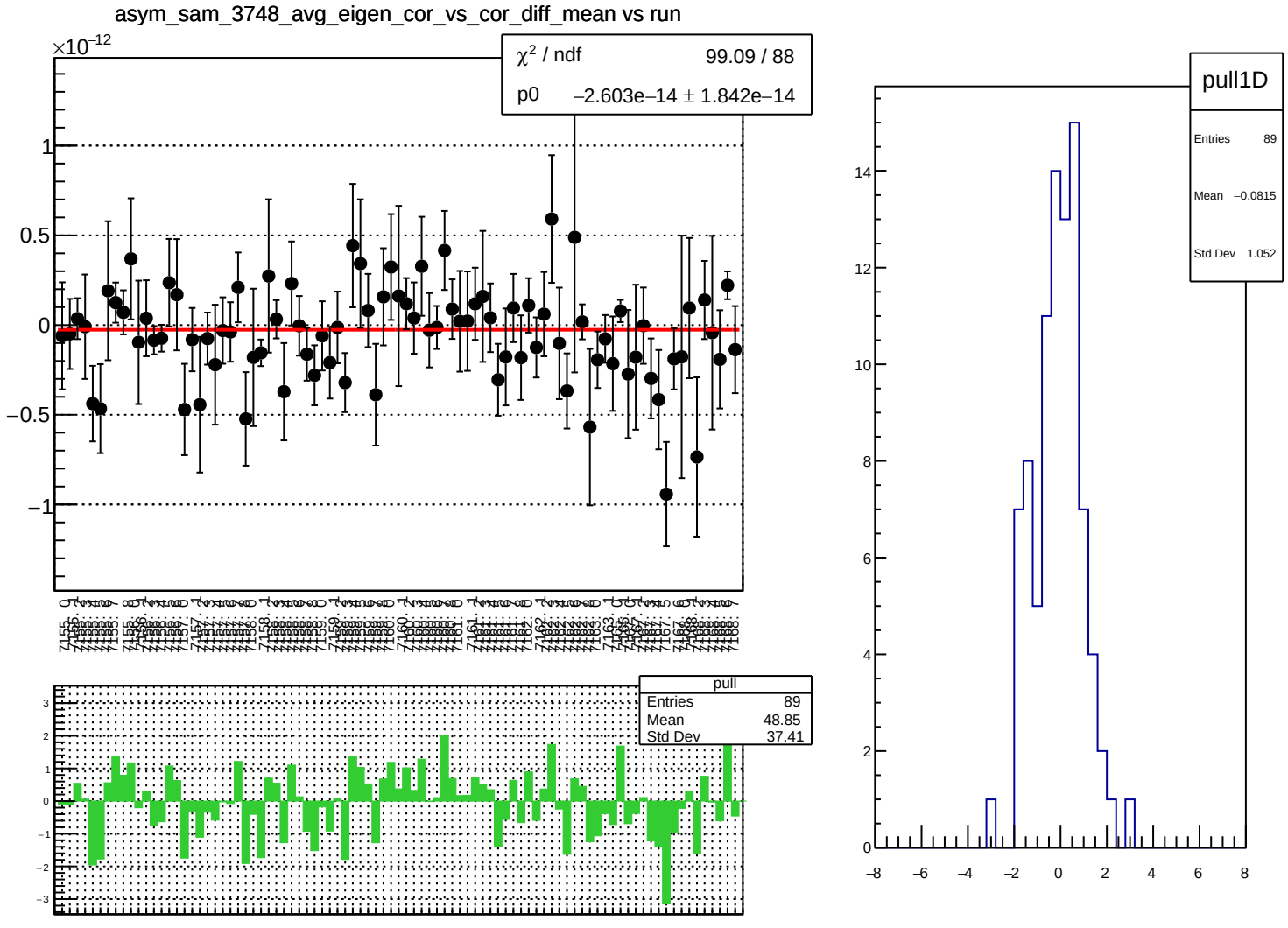

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.42 / 88
p0 −0.0623 ± 0.05022
pull
Entries 89
Mean −82.98
Std Dev 0
pull1D
Entries 89
Mean 0.02035
Std Dev 0.8956

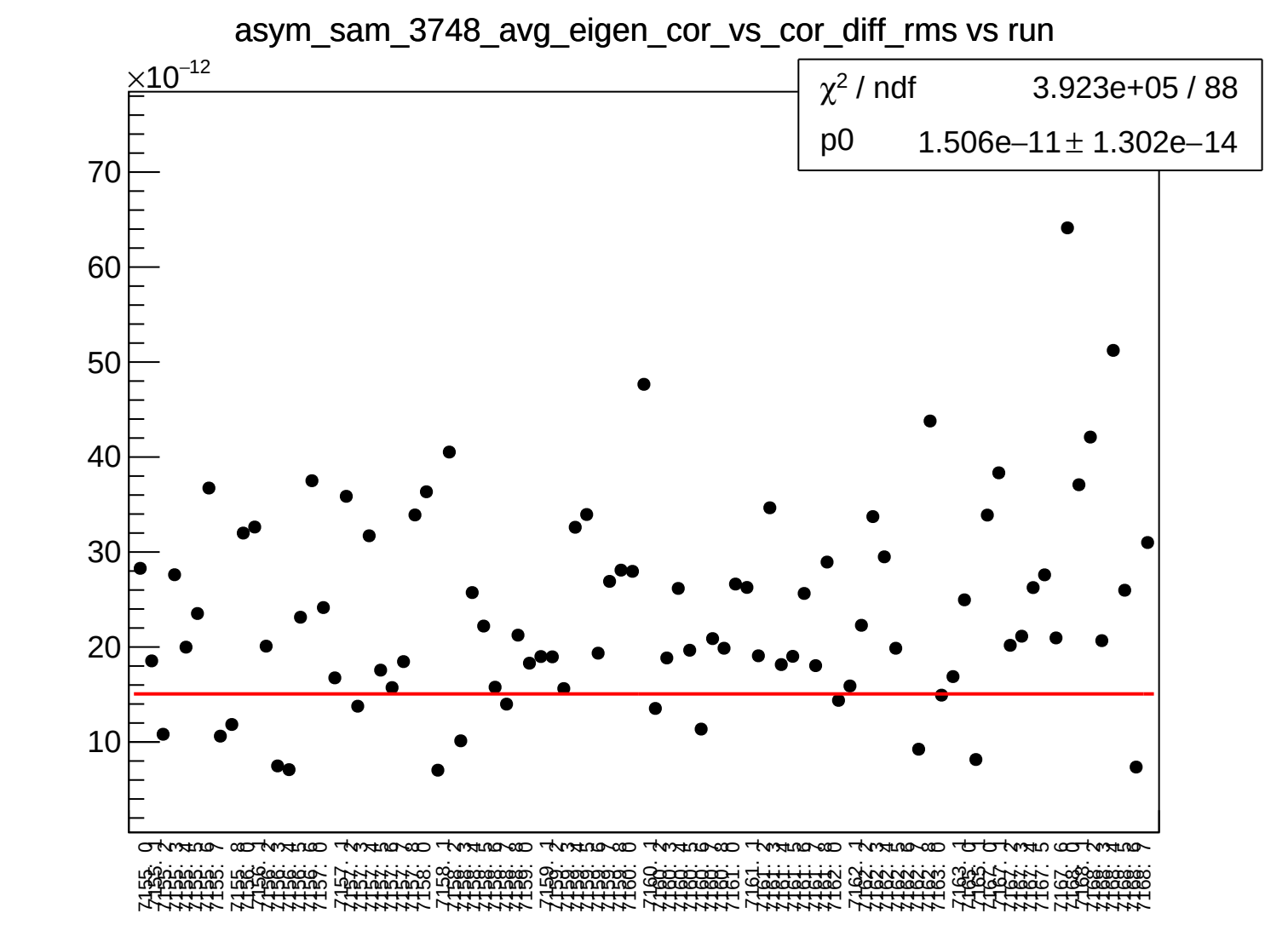

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.038e+05 / 88
p0 45.29 ± 0.03551
140
120
100
80
60
40

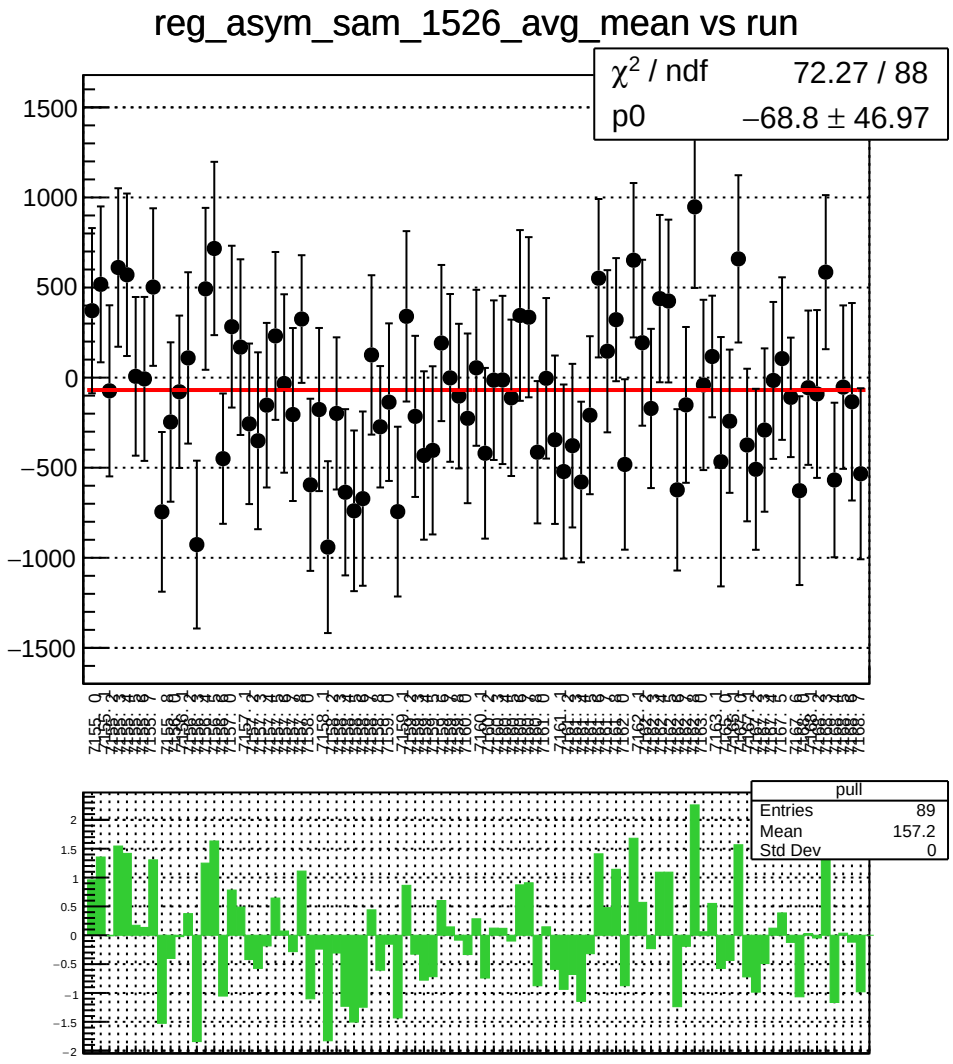

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.42 / 88
p0 −0.0623 ± 0.05022
pull
Entries 89
Mean −82.98
Std Dev 0

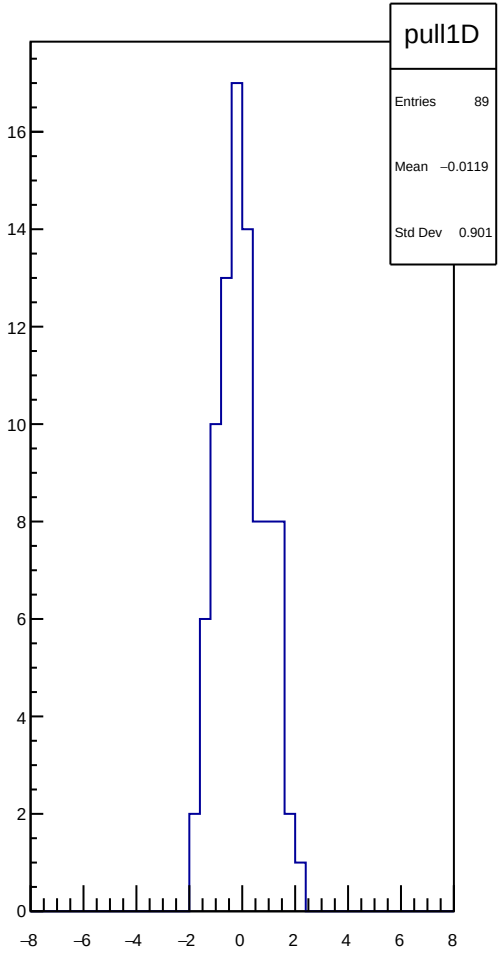

pull1D
Entries 89
Mean 0.02035
Std Dev 0.8956

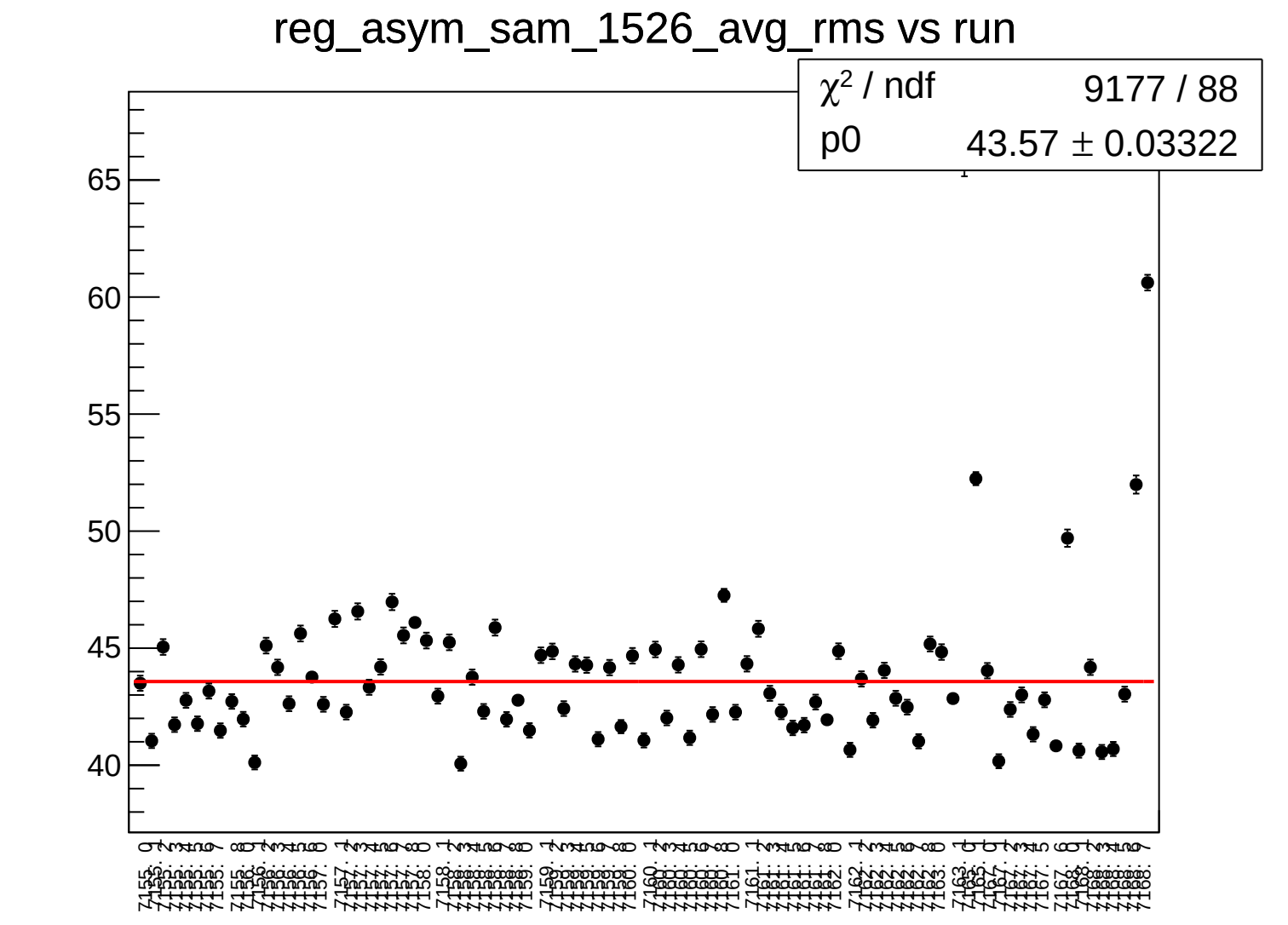

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.038e+05 / 88
p0 45.29 ± 0.03551
140
120
100
80
60
40

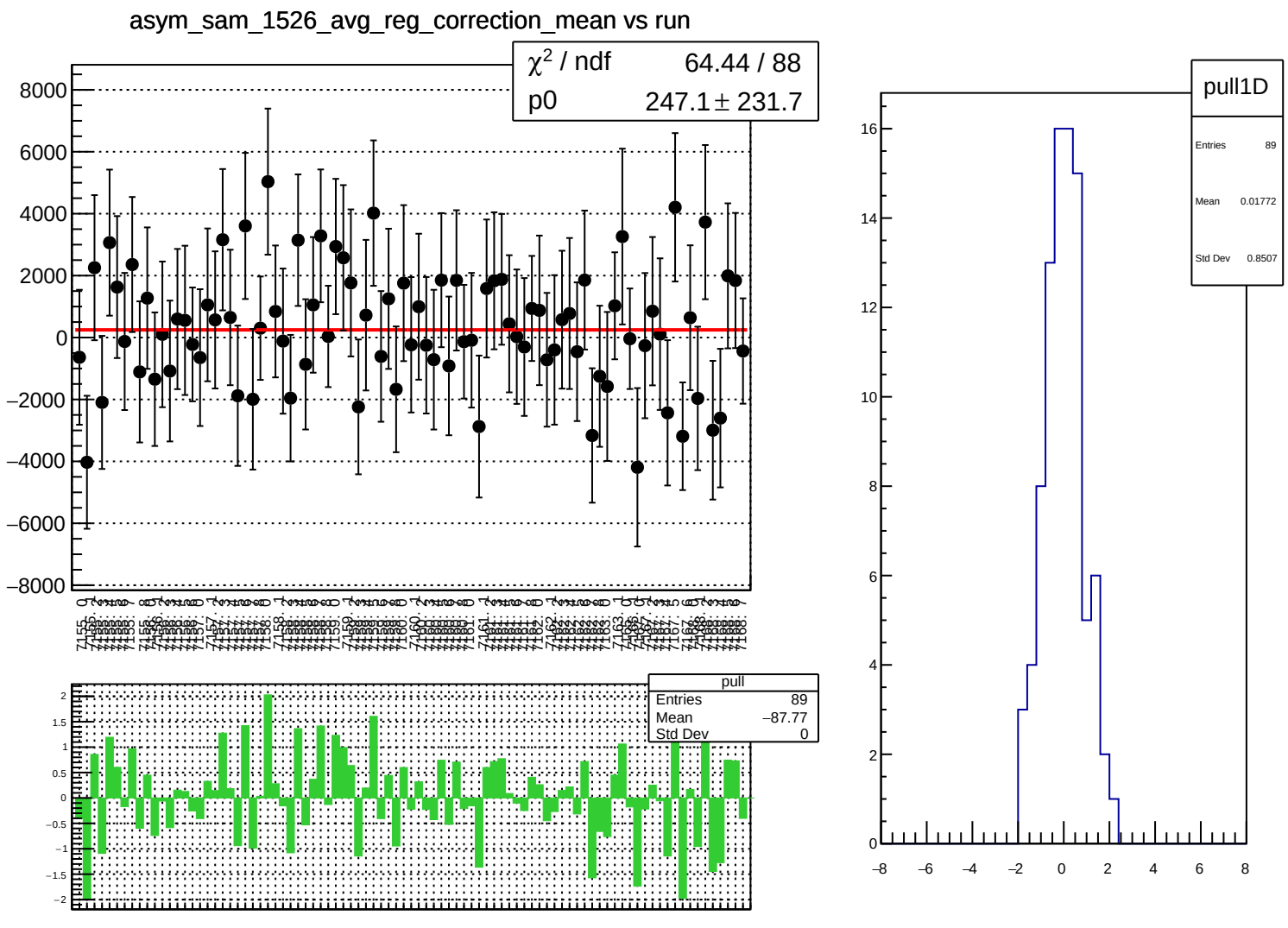

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.09 / 88
p0 −2.603e−14 ± 1.842e−14
pull
Entries 89
Mean 48.85
Std Dev 37.41
pull1D
Entries 89
Mean −0.0815
Std Dev 1.052

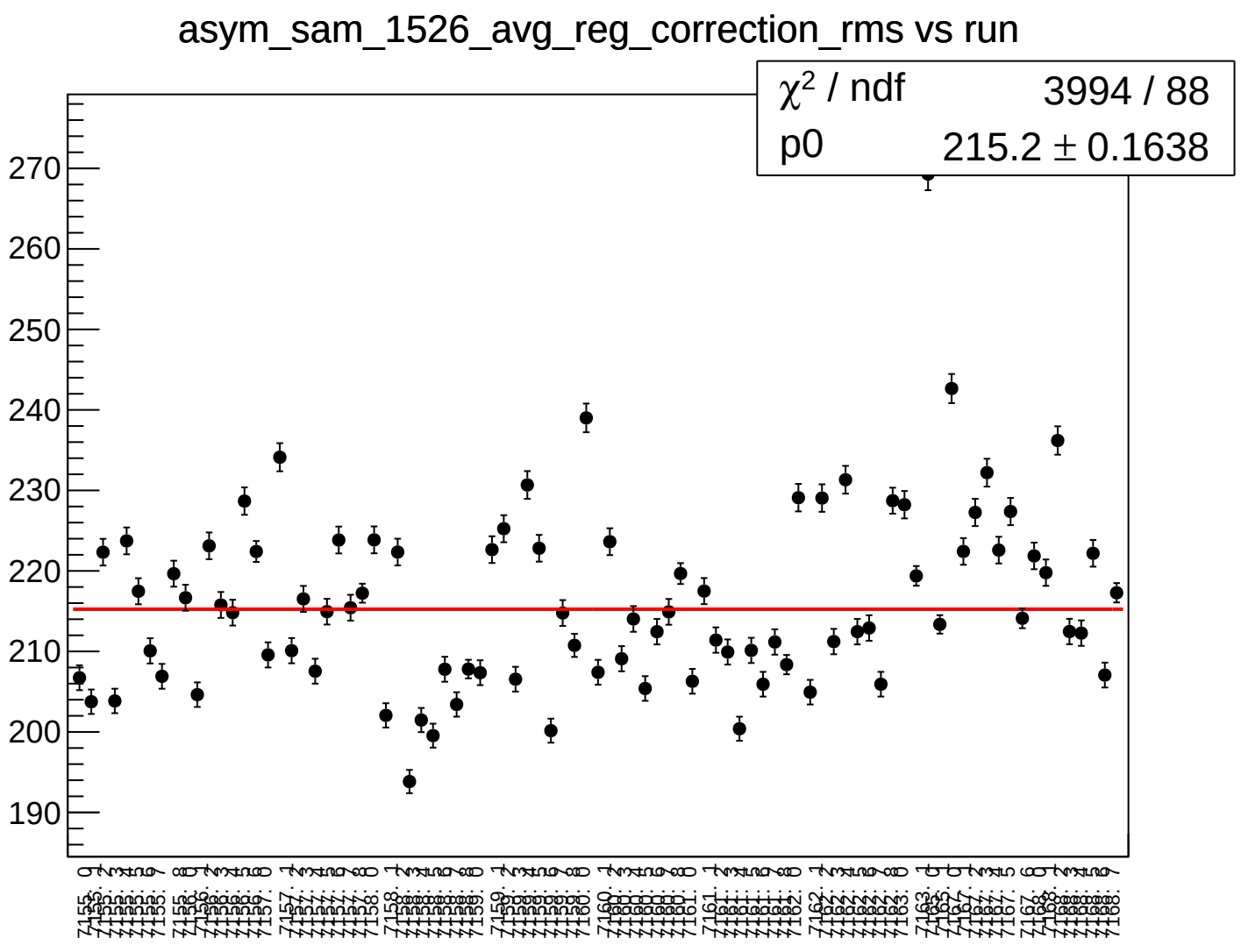

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.923e+05 / 88
p0 1.506e−11 ± 1.302e−14
70
60
50
40
30
20
10

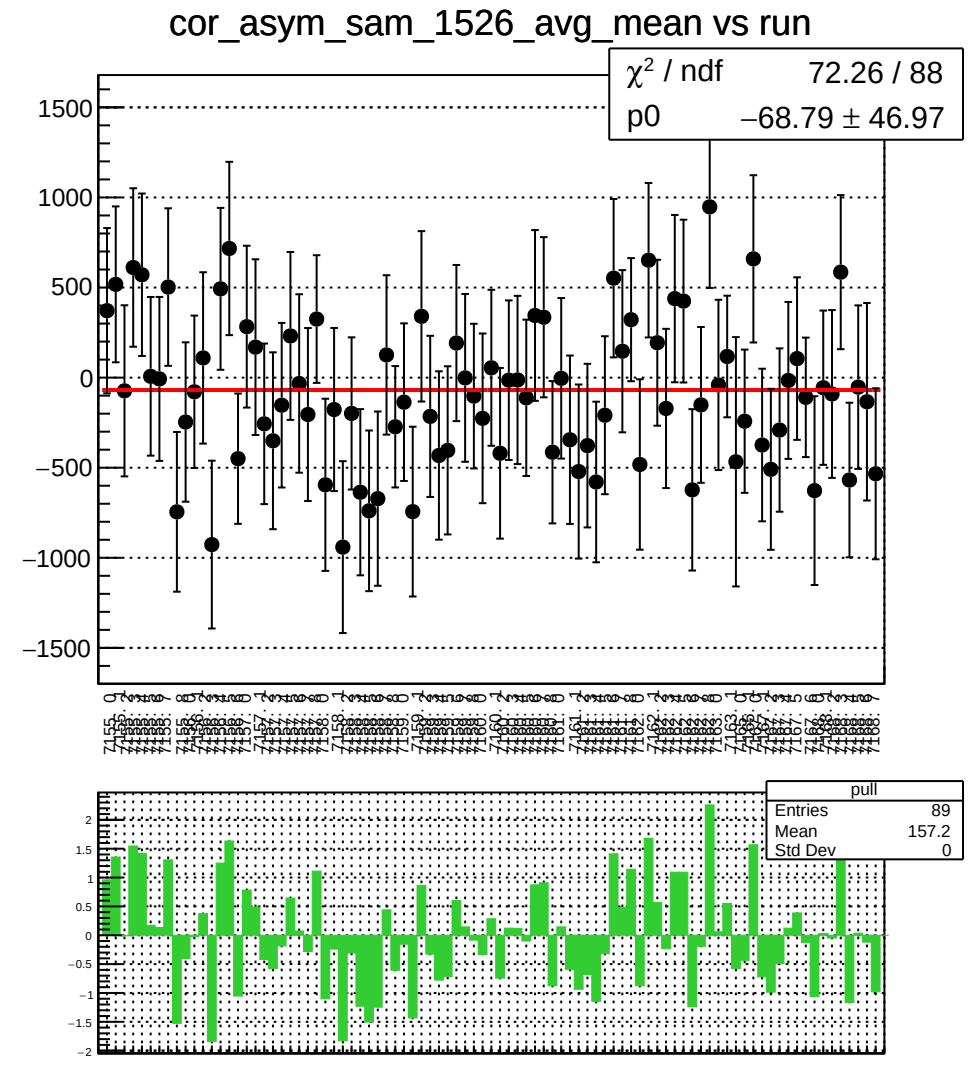

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 72.27 / 88
p0 −68.8 ± 46.97
pull
Entries 89
Mean 157.2
Std Dev 0

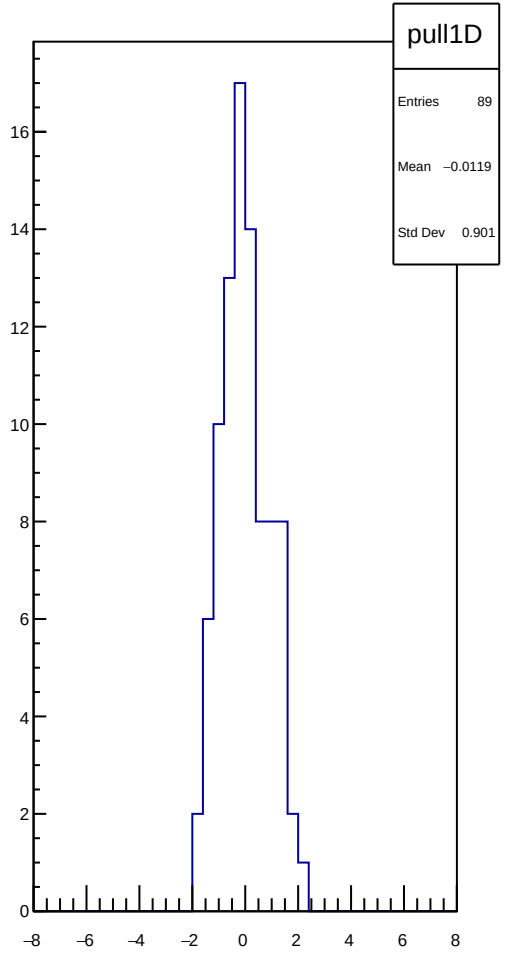

pull1D
Entries 89
Mean −0.0119
Std Dev 0.901

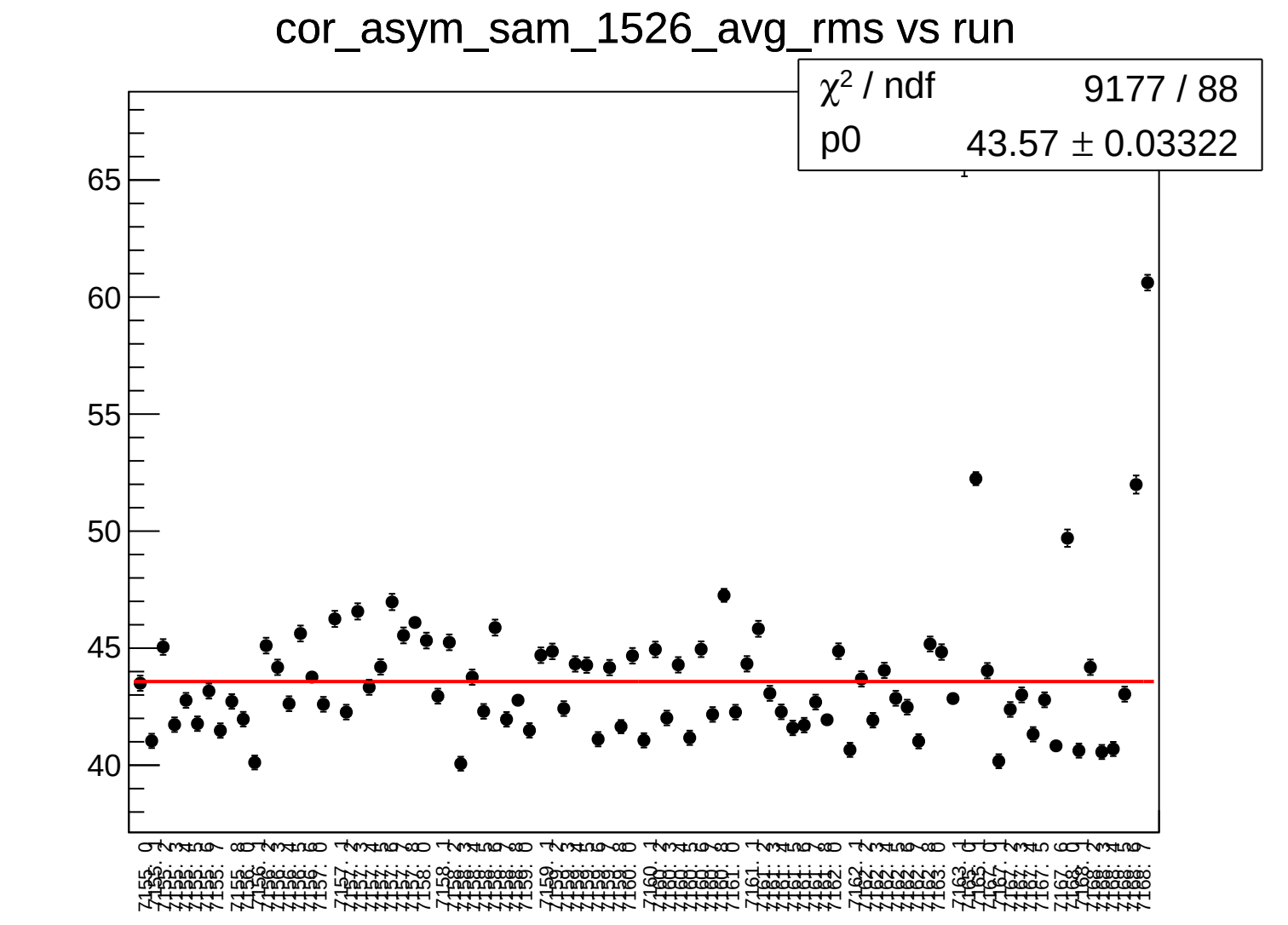

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9177 / 88
p0 43.57 ± 0.03322
65
60
55
50
45
40

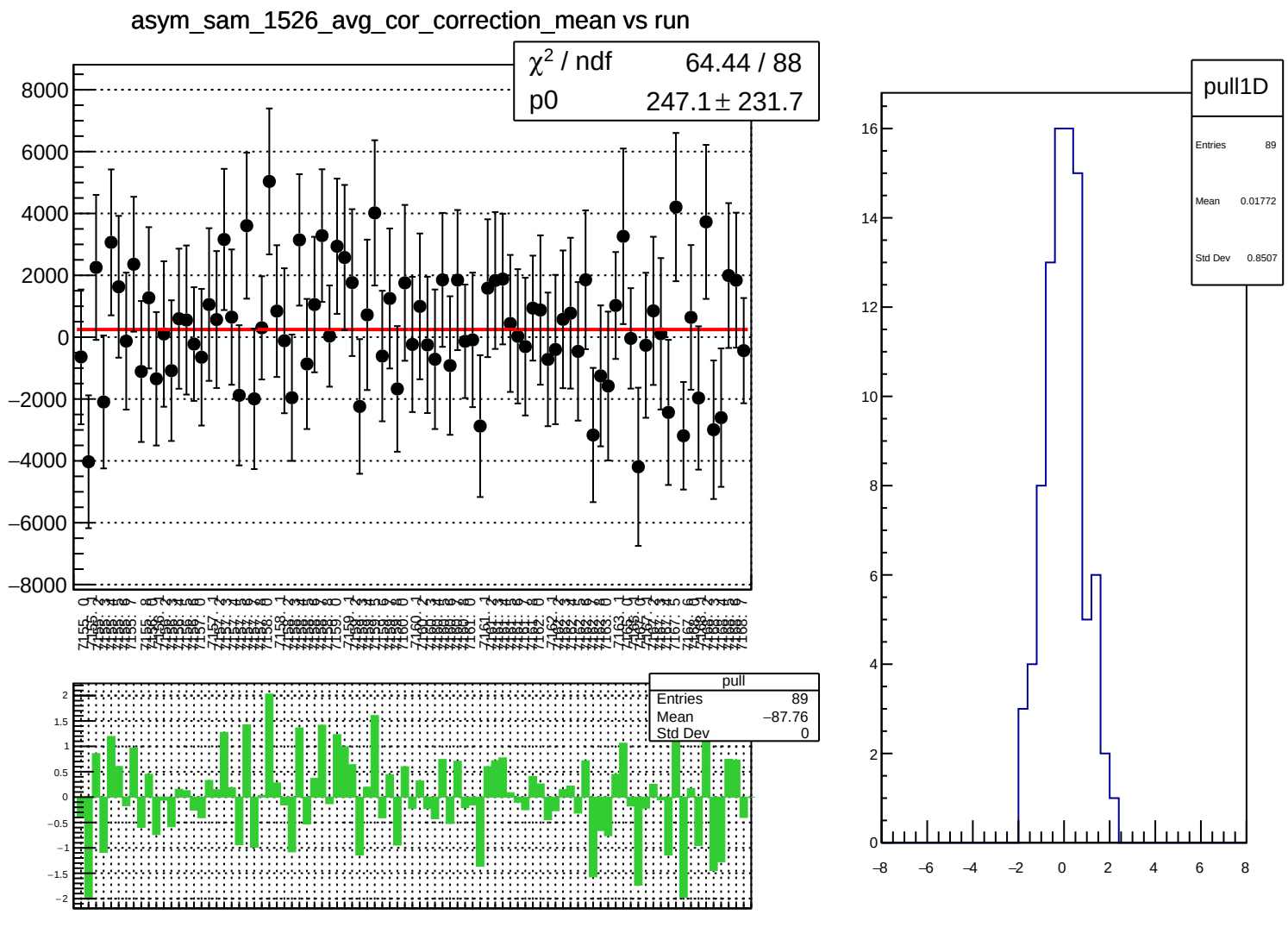

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 64.44 / 88
p0 247.1 ± 231.7
pull
Entries 89
Mean −87.77
Std Dev 0
pull1D
Entries 89
Mean 0.01772
Std Dev 0.8507

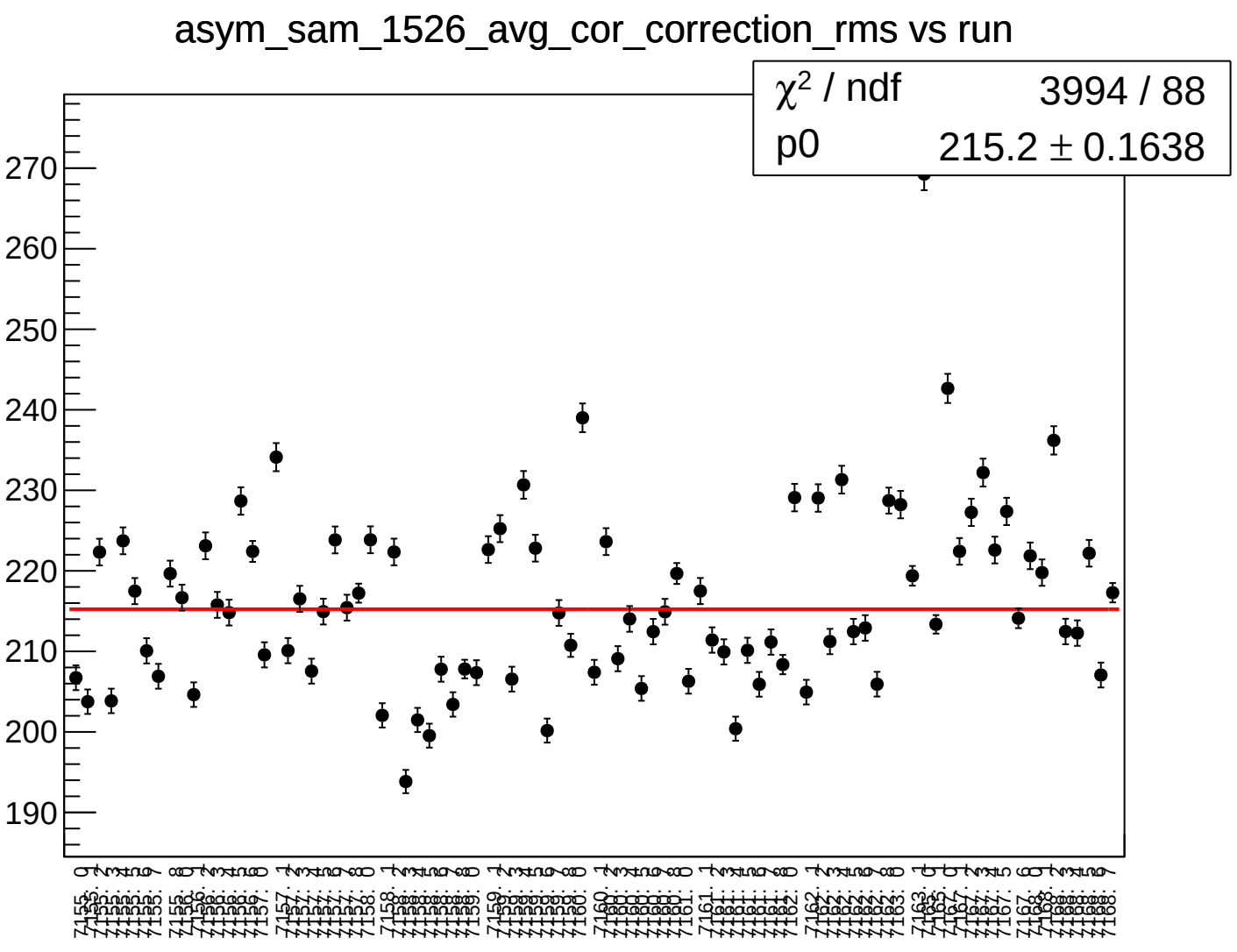

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 3994 / 88
p0 215.2 ± 0.1638
270
260
250
240
230
220
210
200
190

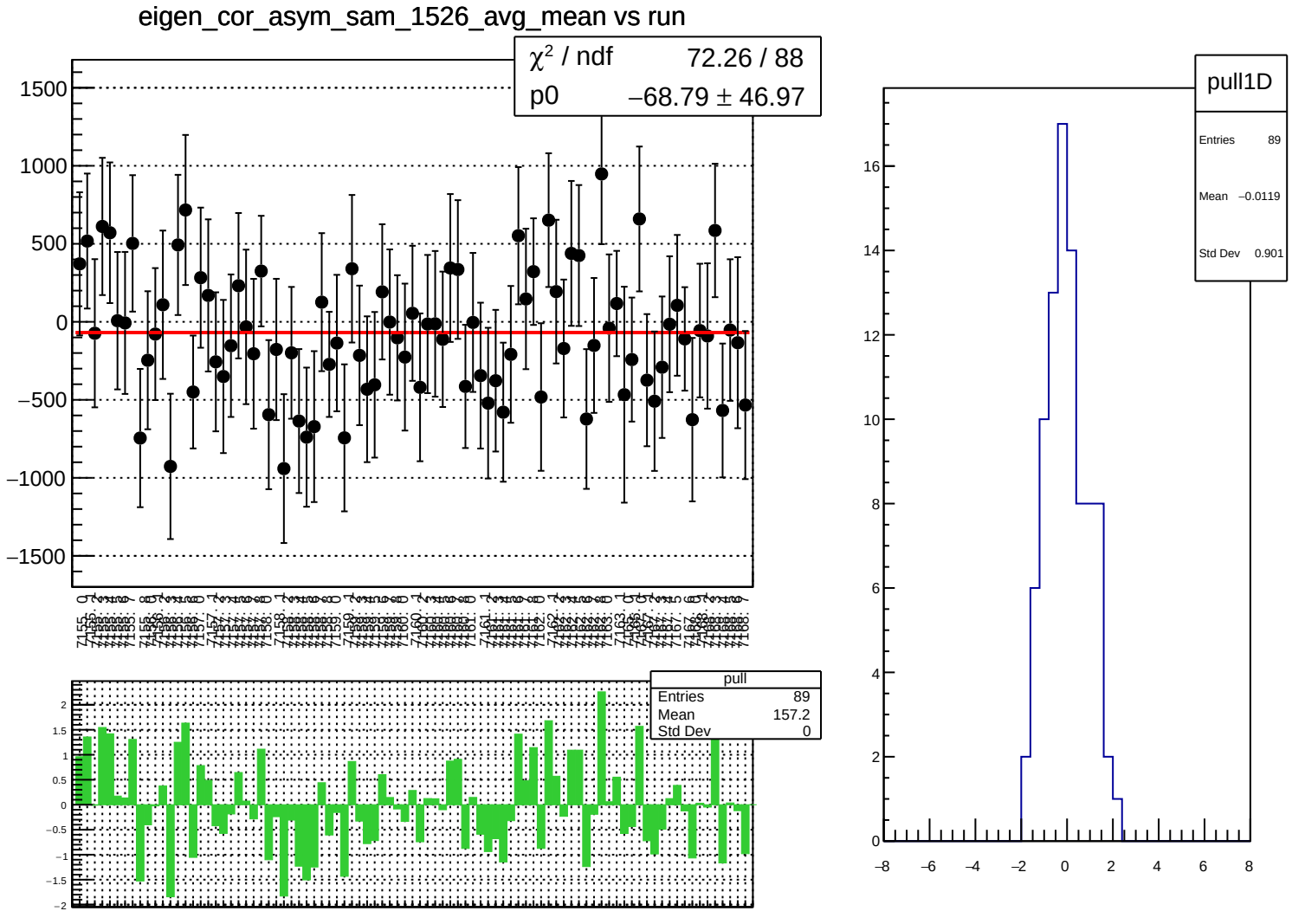

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 72.26 / 88
p0 −68.79 ± 46.97
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 157.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

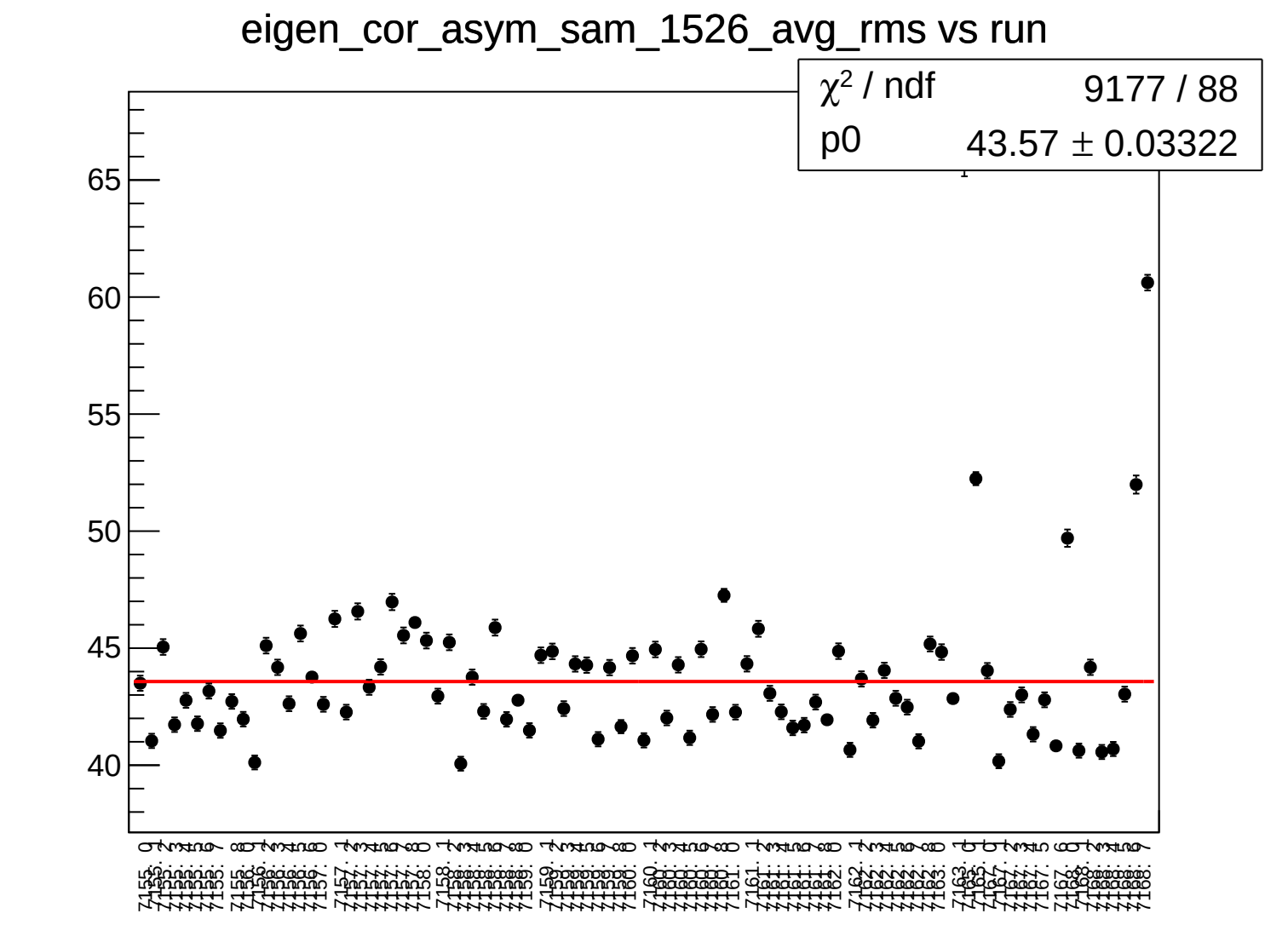

pull1D
Entries 89
Mean −0.0119
Std Dev 0.901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

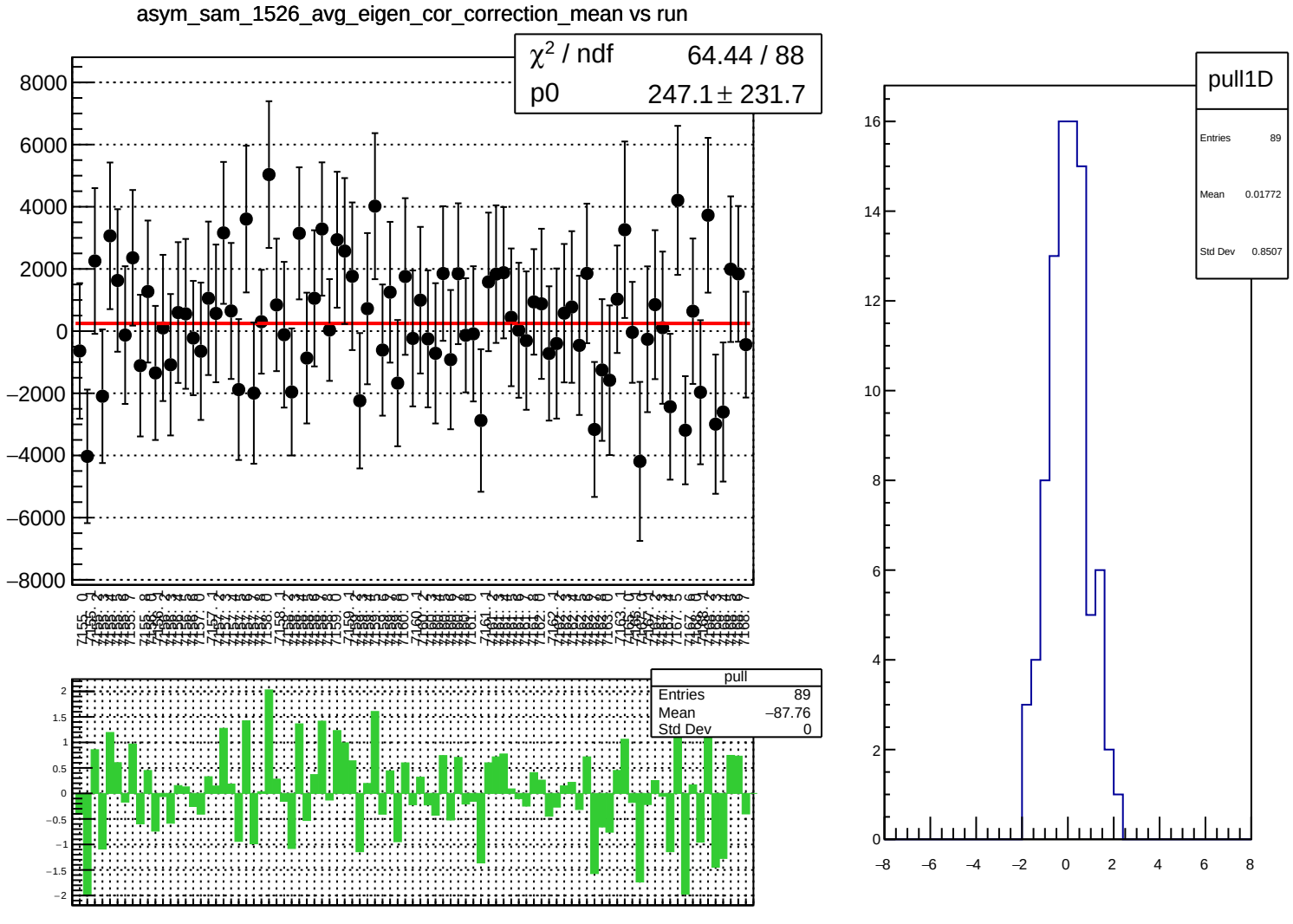

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9177 / 88
p0 43.57 ± 0.03322
65
60
55
50
45
40

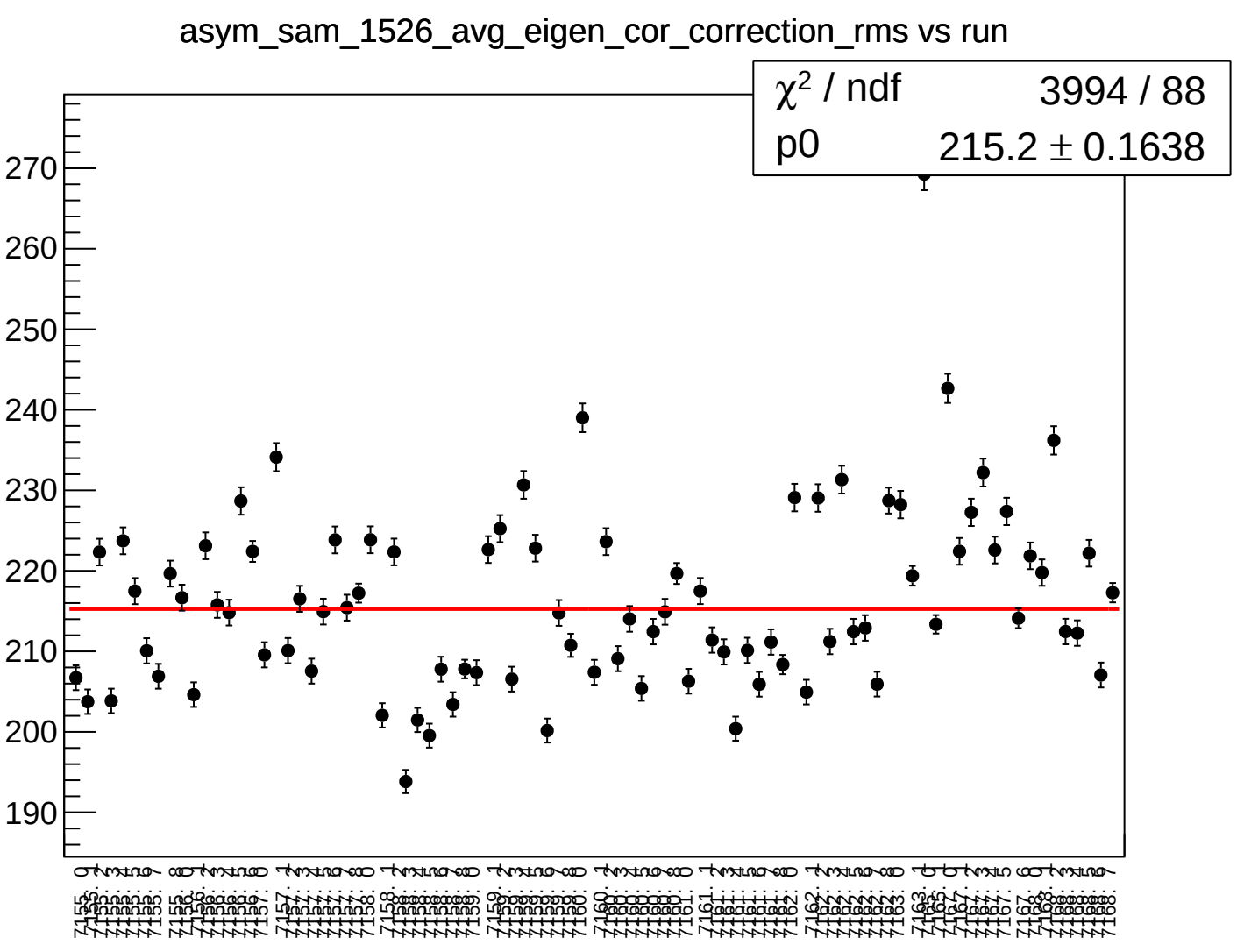

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 64.44 / 88
p0 247.1 ± 231.7
pull
Entries 89
Mean −87.76
Std Dev 0
pull1D
Entries 89
Mean 0.01772
Std Dev 0.8507

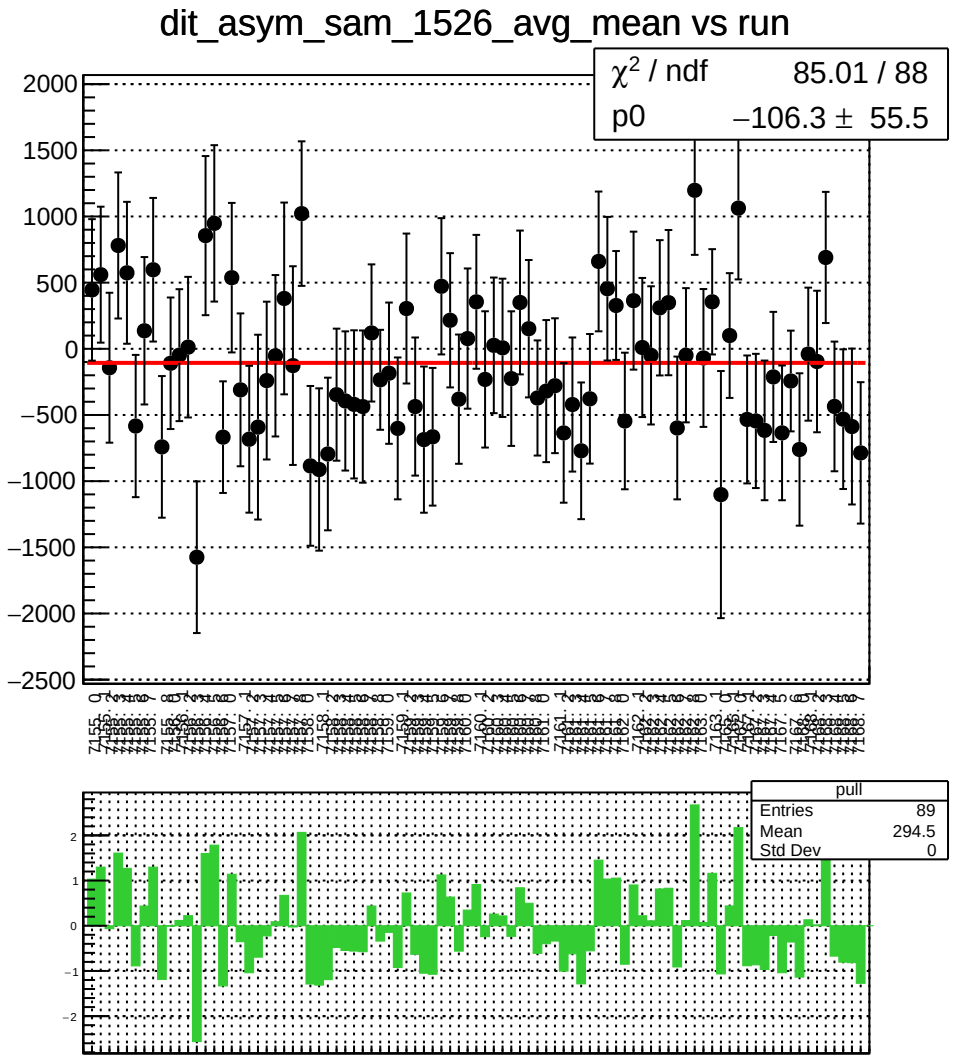

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 3994 / 88
p0 215.2 ± 0.1638
270
260
250
240
230
220
210
200
190

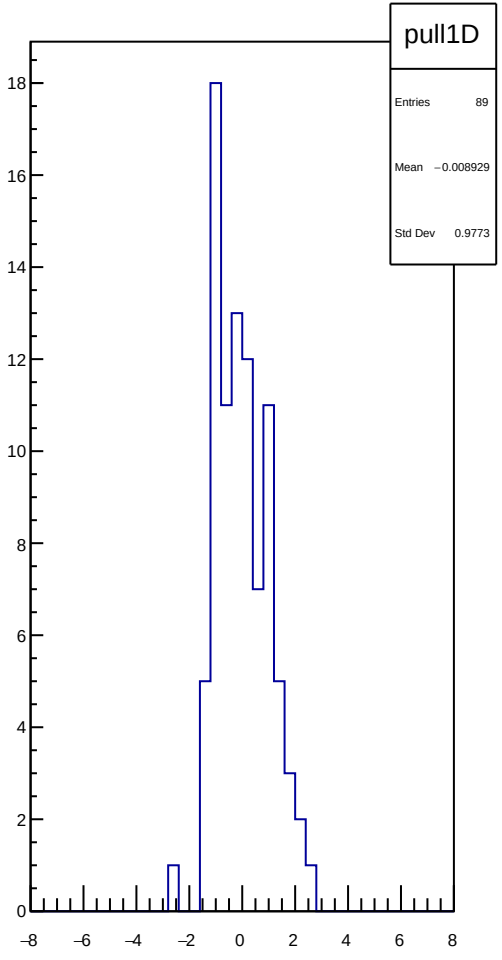

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 72.26 / 88
p0 −68.79 ± 46.97
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean 157.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.0119
Std Dev 0.901
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

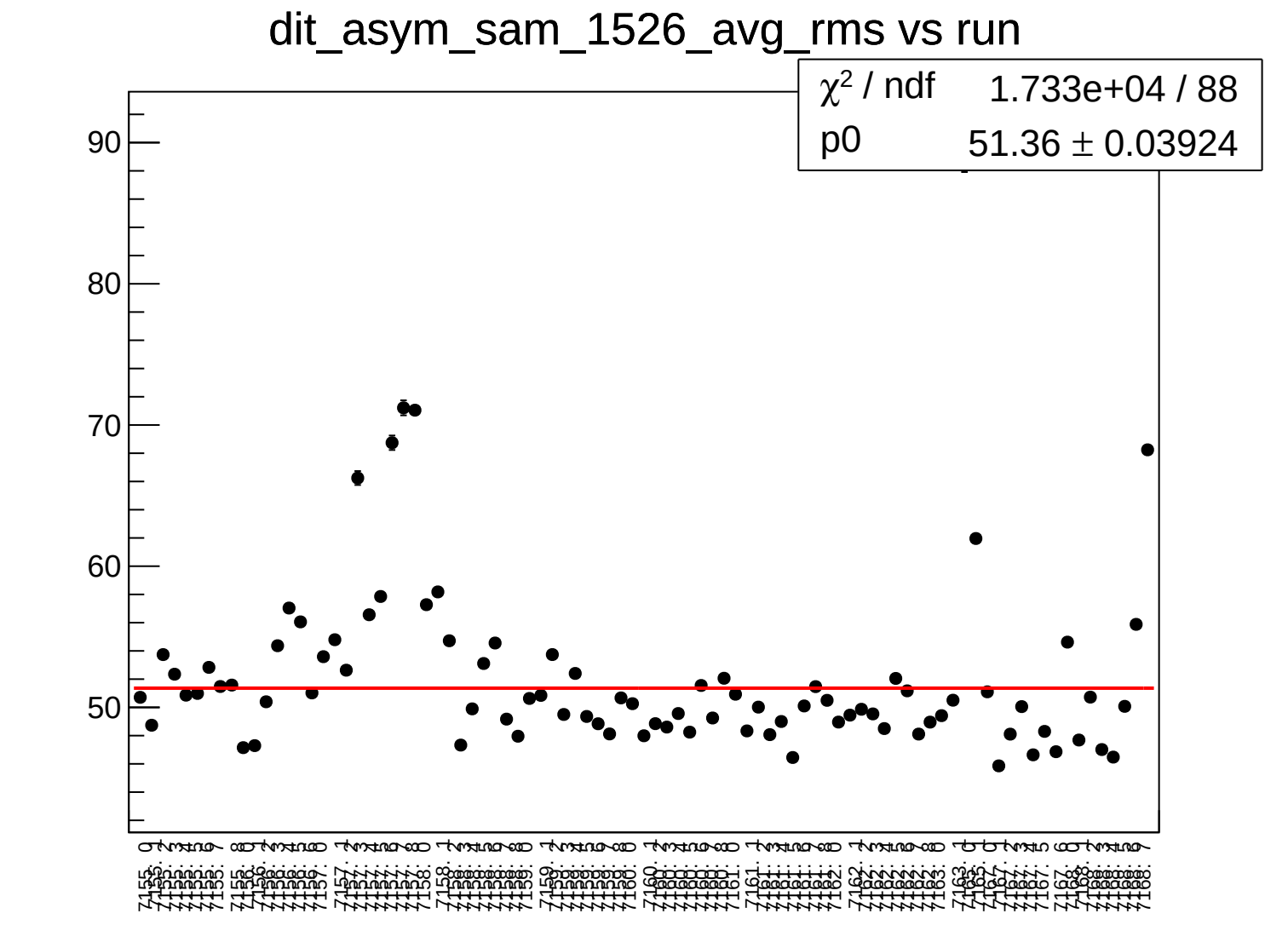

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 9177 / 88
p0 43.57 ± 0.03322
65
60
55
50
45
40

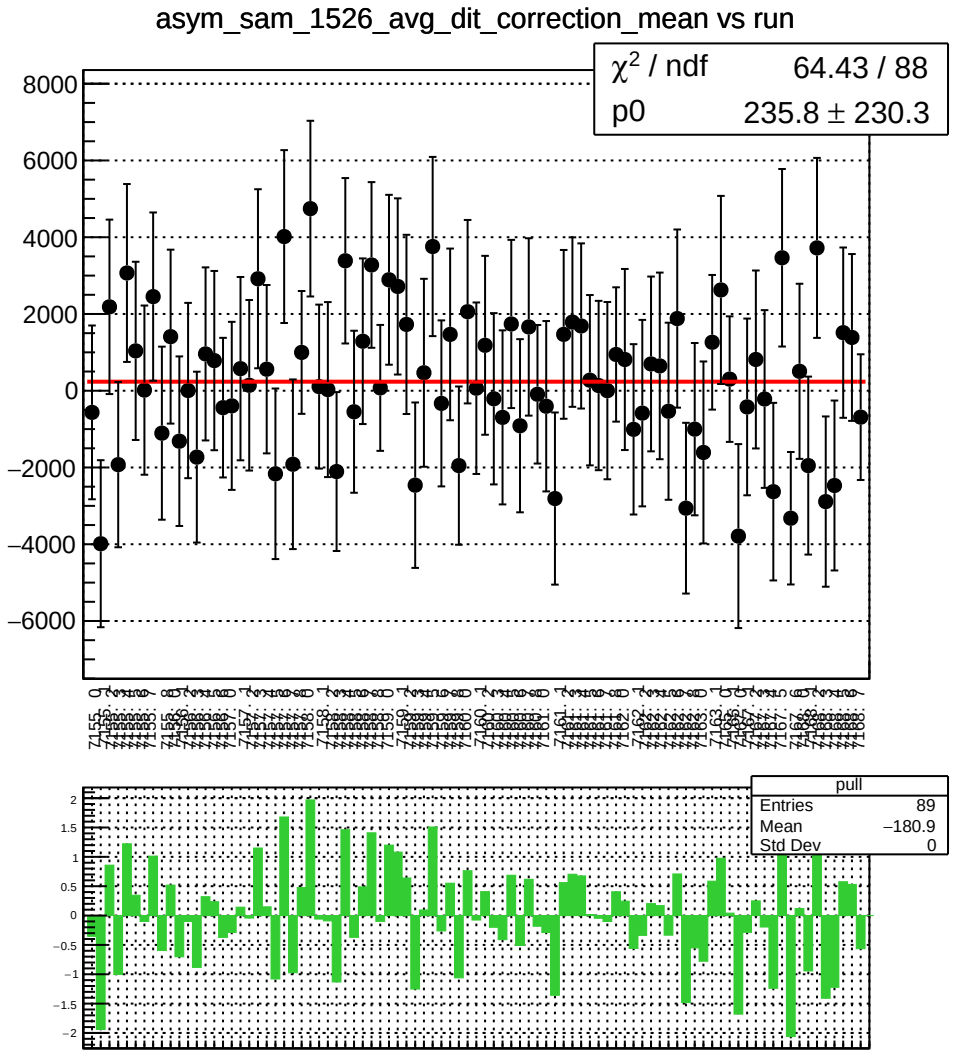

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.44 / 88
p0 247.1 ± 231.7
pull
Entries 89
Mean −87.76
Std Dev 0
pull1D
Entries 89
Mean 0.01772
Std Dev 0.8507

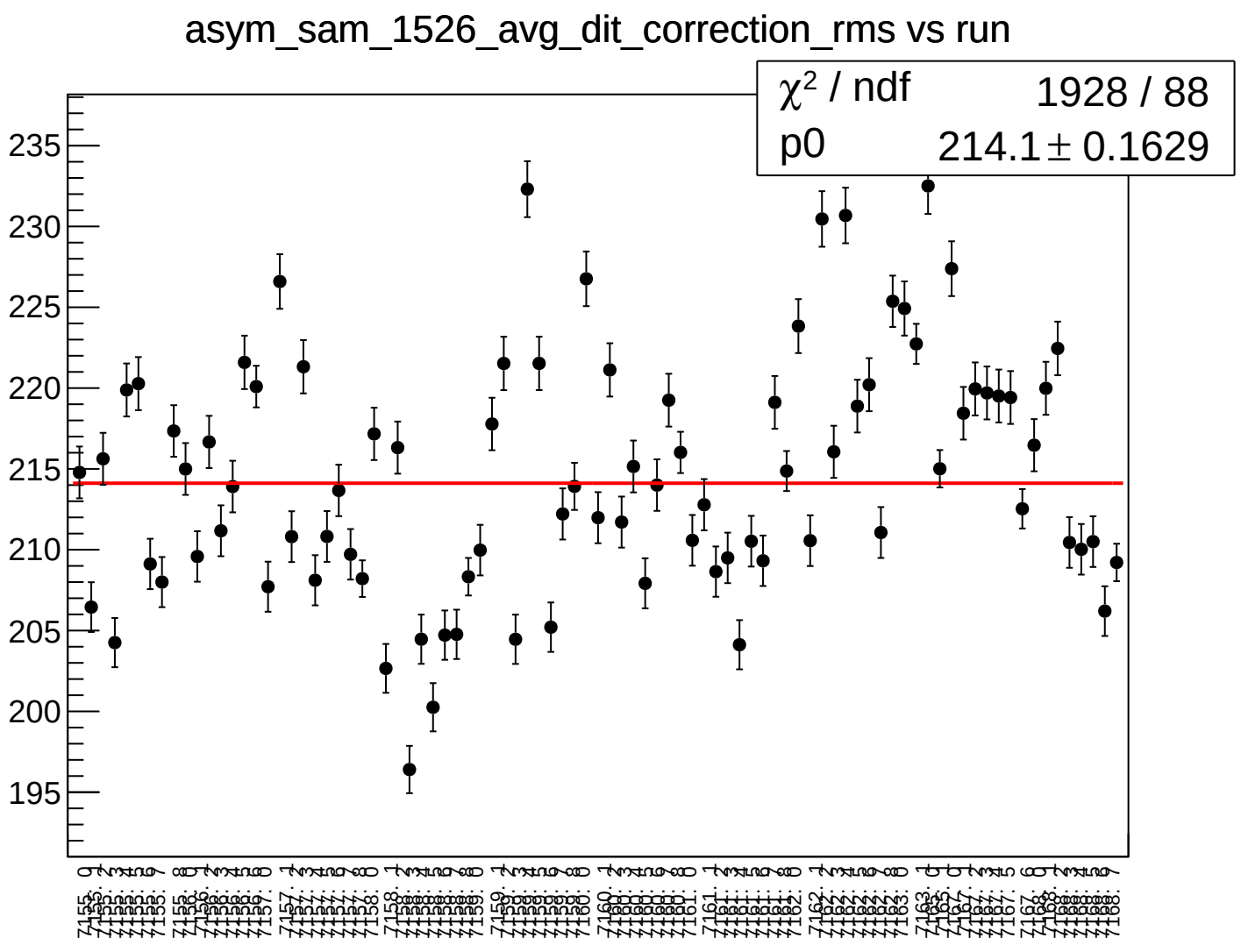

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 3994 / 88
p0 215.2 ± 0.1638
270
260
250
240
230
220
210
200
190

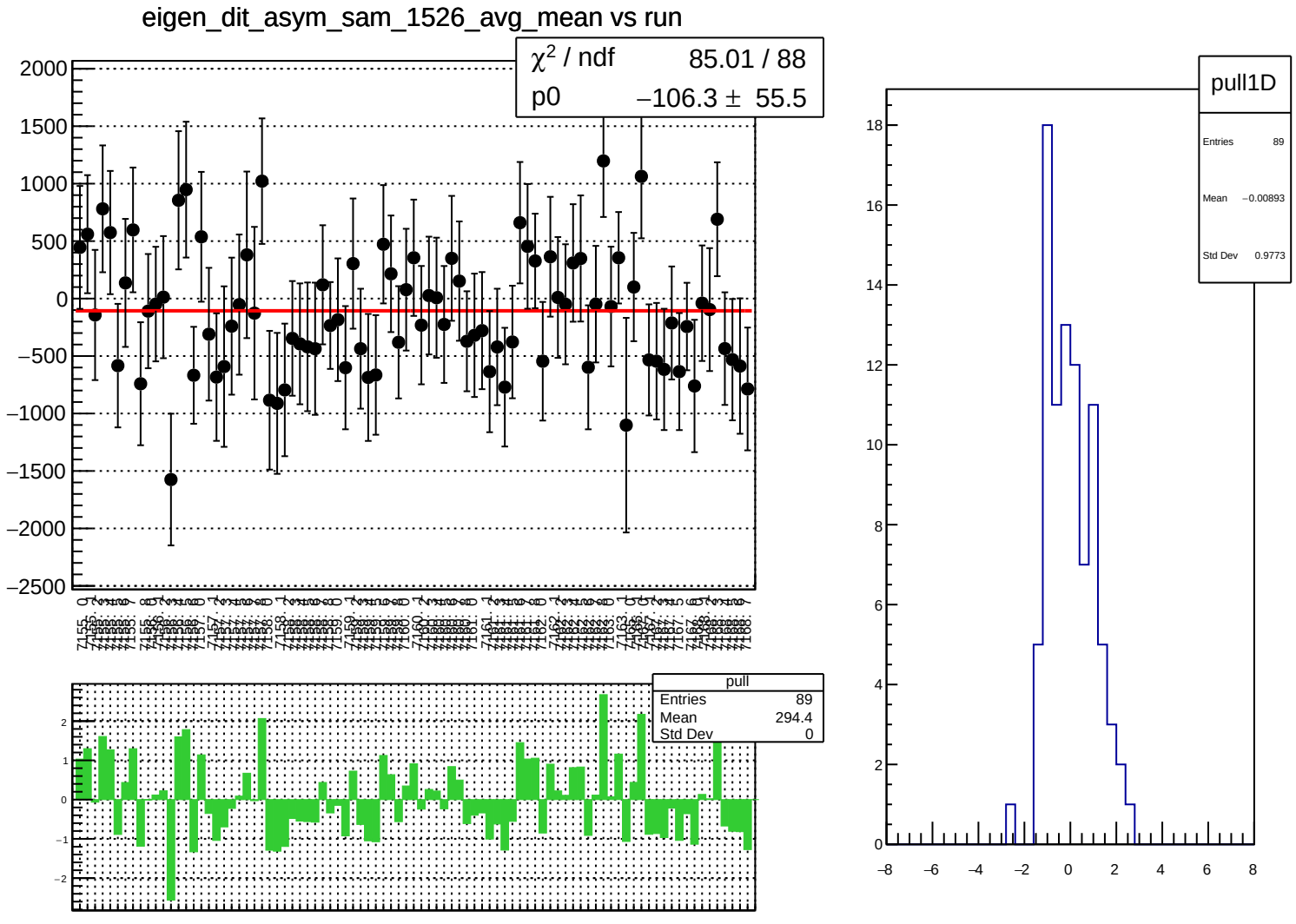

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 85.01 / 88
p0 −106.3 ± 55.5
pull
Entries 89
Mean 294.5
Std Dev 0

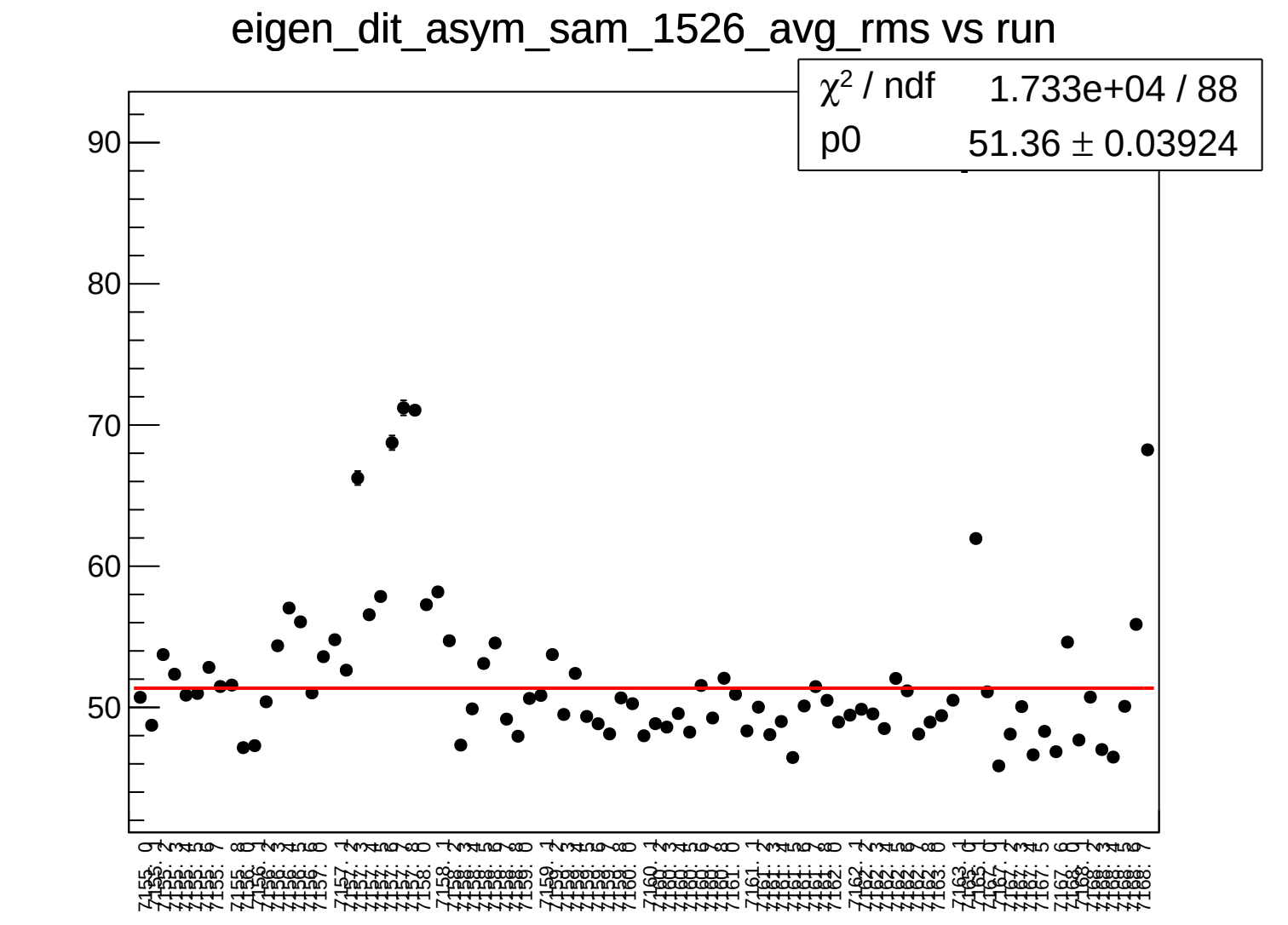

pull1D
Entries 89
Mean −0.008929
Std Dev 0.9773

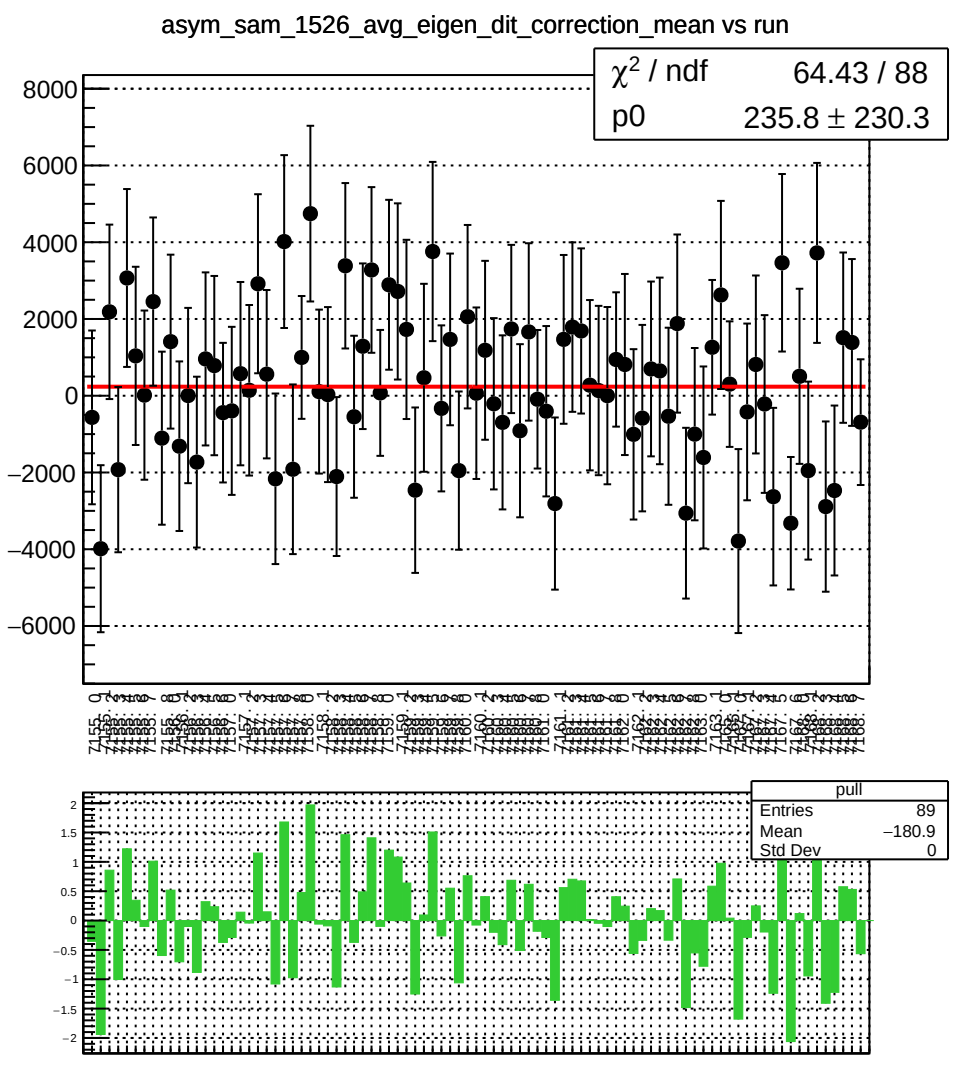

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 1.733e+04 / 88
p0 51.36 ± 0.03924
90
80
70
60
50

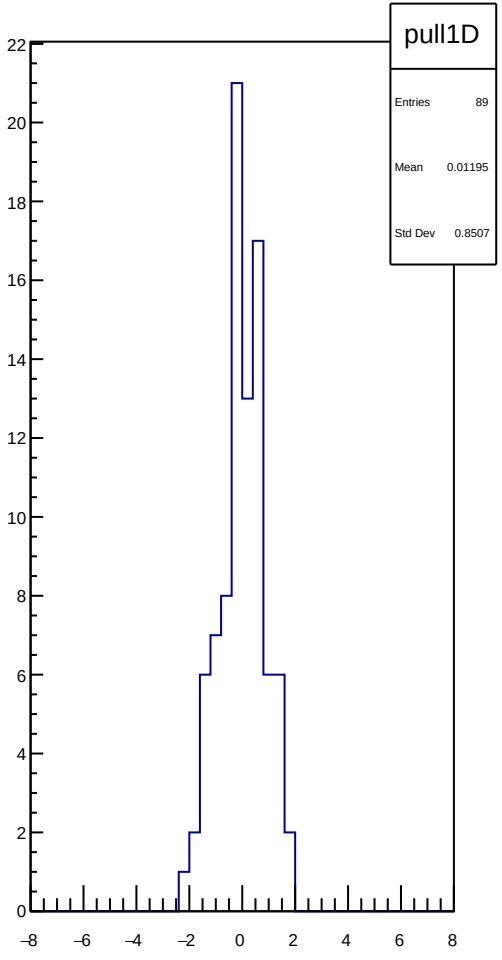

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 64.43 / 88
p0 235.8 ± 230.3
pull
Entries 89
Mean −180.9
Std Dev 0
pull1D
Entries 89
Mean 0.01194
Std Dev 0.8507

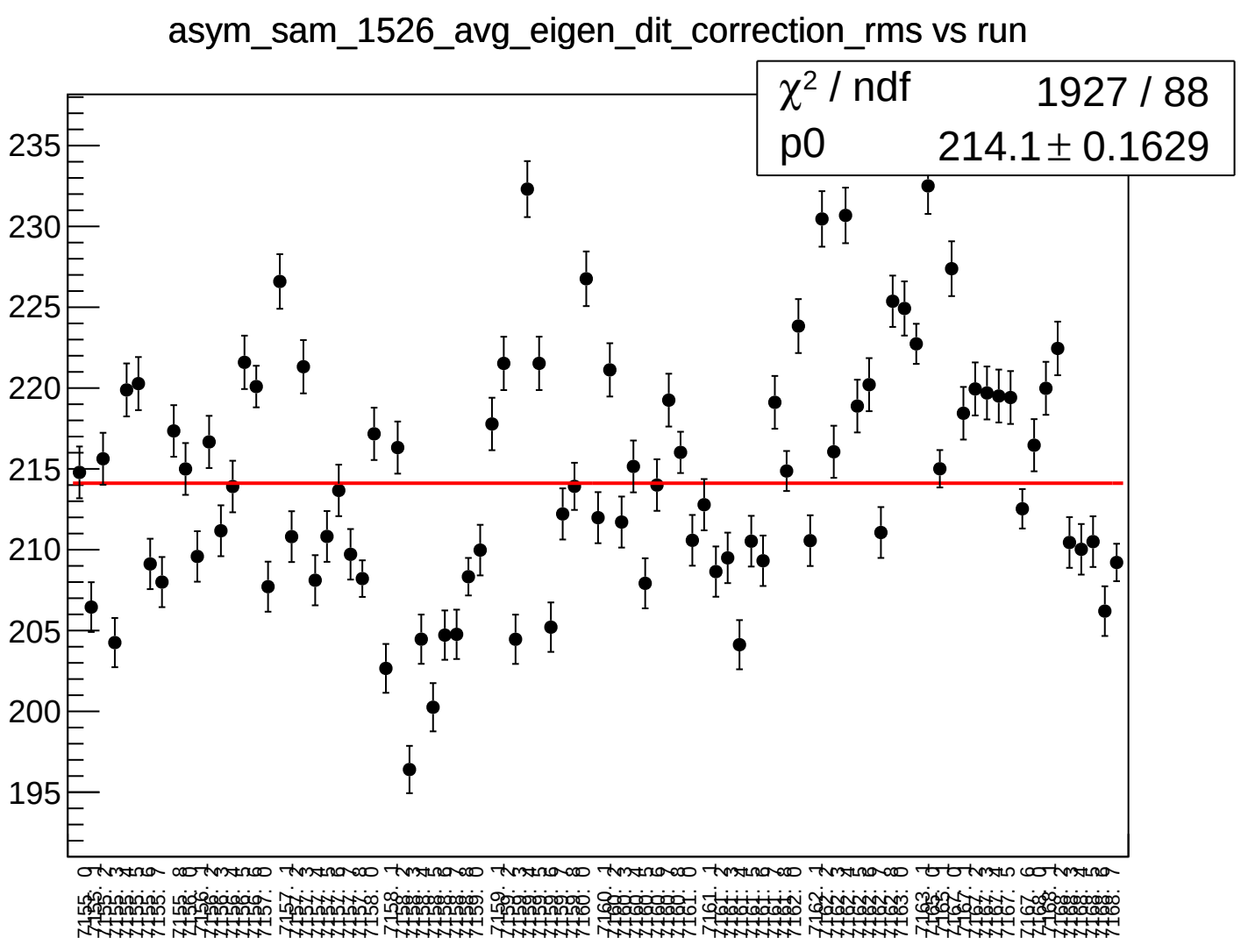

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 1928 / 88
p0 214.1 ± 0.1629
235
230
225
220
215
210
205
200
195

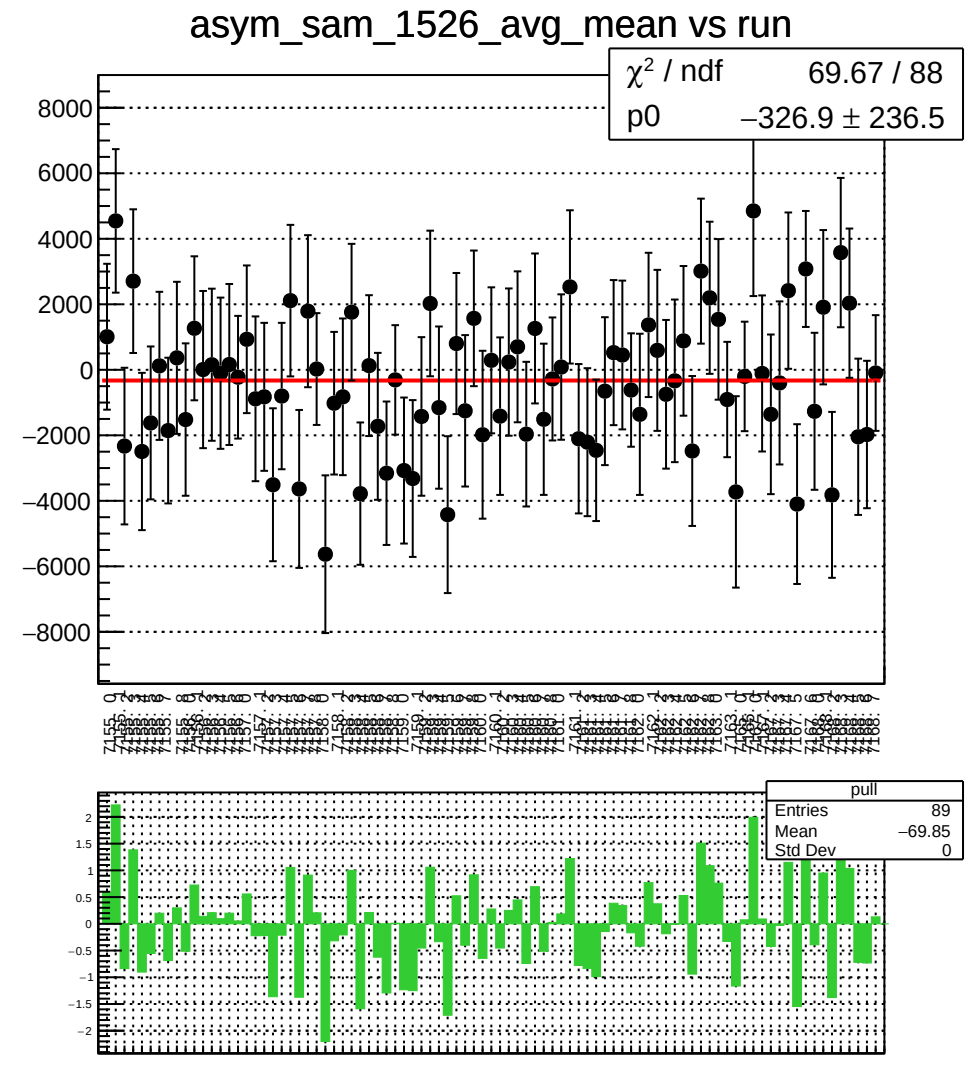

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 85.01 / 88
p0 −106.3 ± 55.5
pull
Entries 89
Mean 294.4
Std Dev 0
pull1D
Entries 89
Mean −0.00893
Std Dev 0.9773

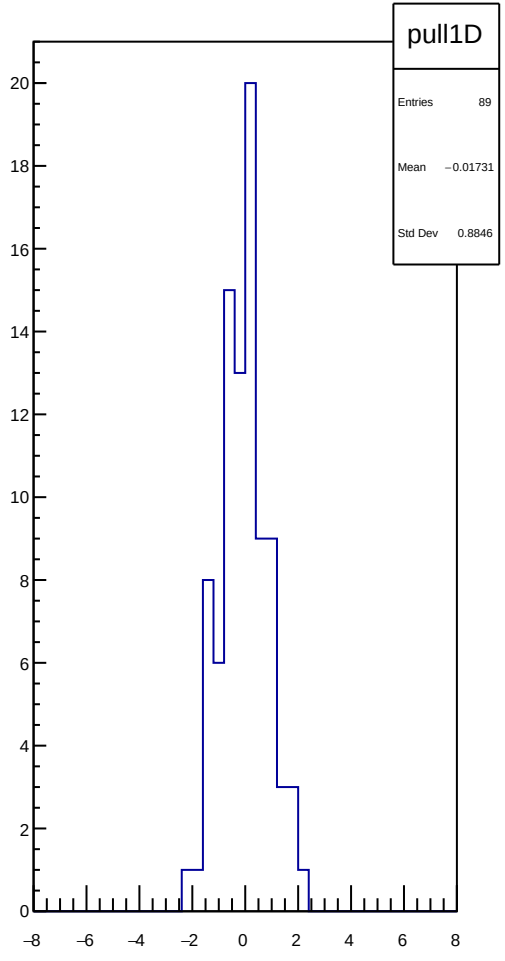

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 1.733e+04 / 88
p0 51.36 ± 0.03924
90
80
70
60
50

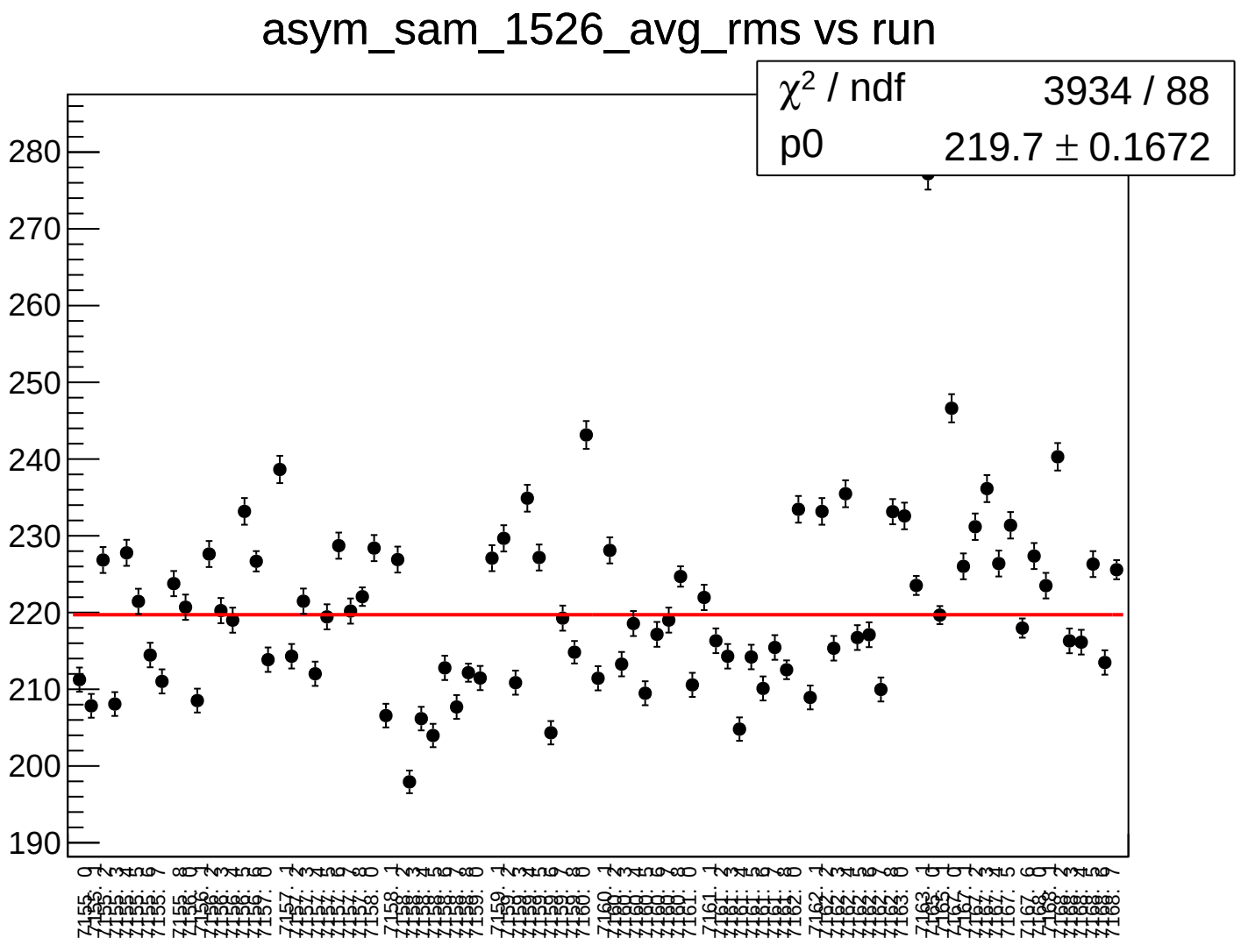

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 64.43 / 88
p0 235.8 ± 230.3
pull
Entries 89
Mean −180.9
Std Dev 0

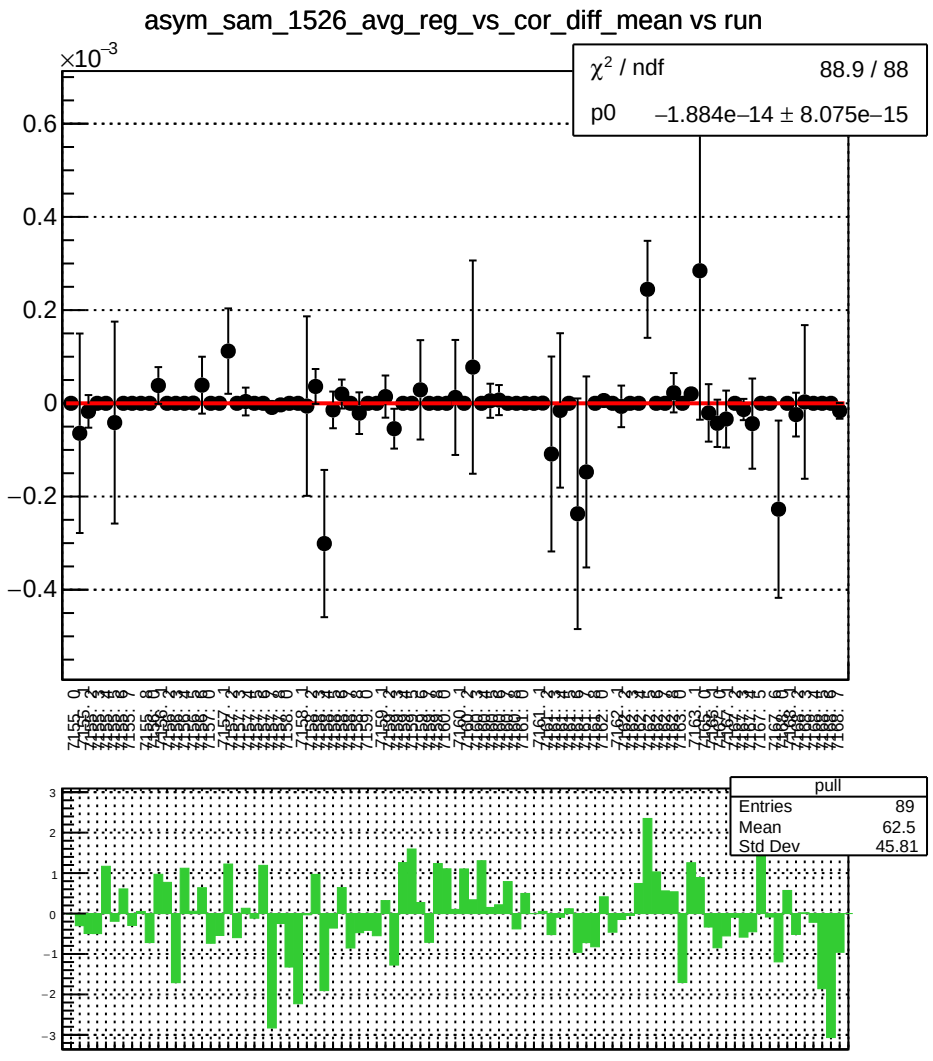

pull1D
Entries 89
Mean 0.01195
Std Dev 0.8507

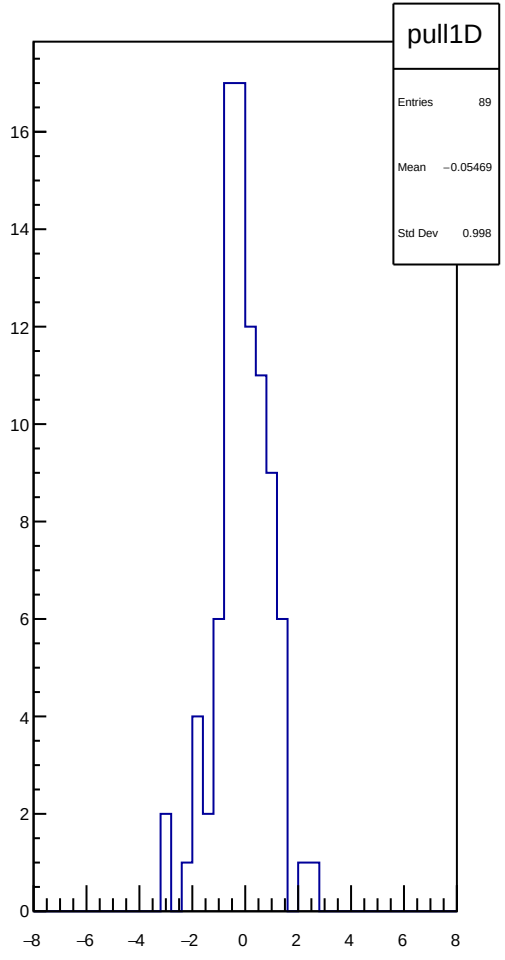

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 1927 / 88
p0 214.1 ± 0.1629
235
230
225
220
215
210
205
200
195

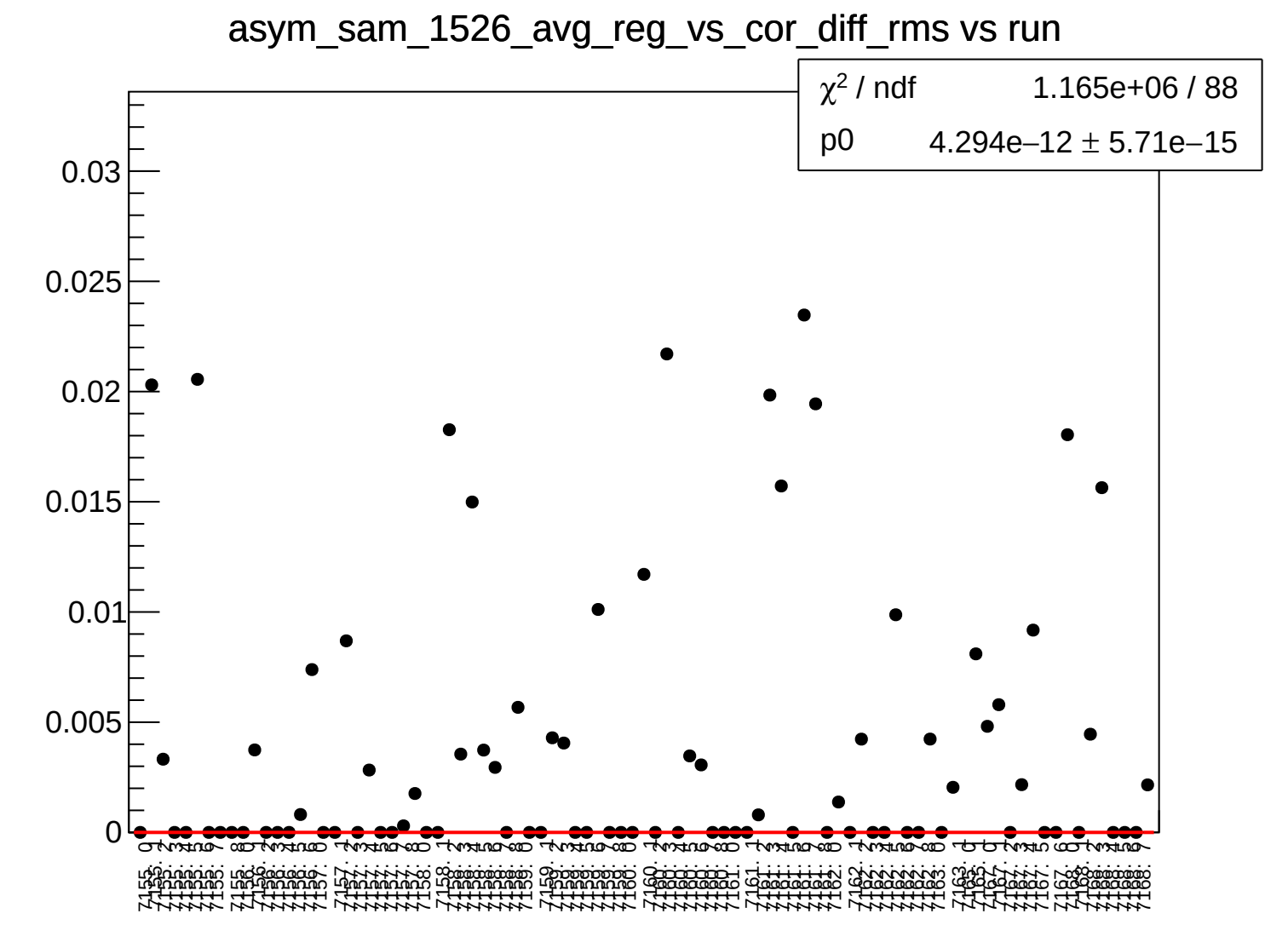

asym_sam_1526_avg_mean vs run
χ² / ndf 69.67 / 88
p0 −326.9 ± 236.5
pull
Entries 89
Mean −69.85
Std Dev 0

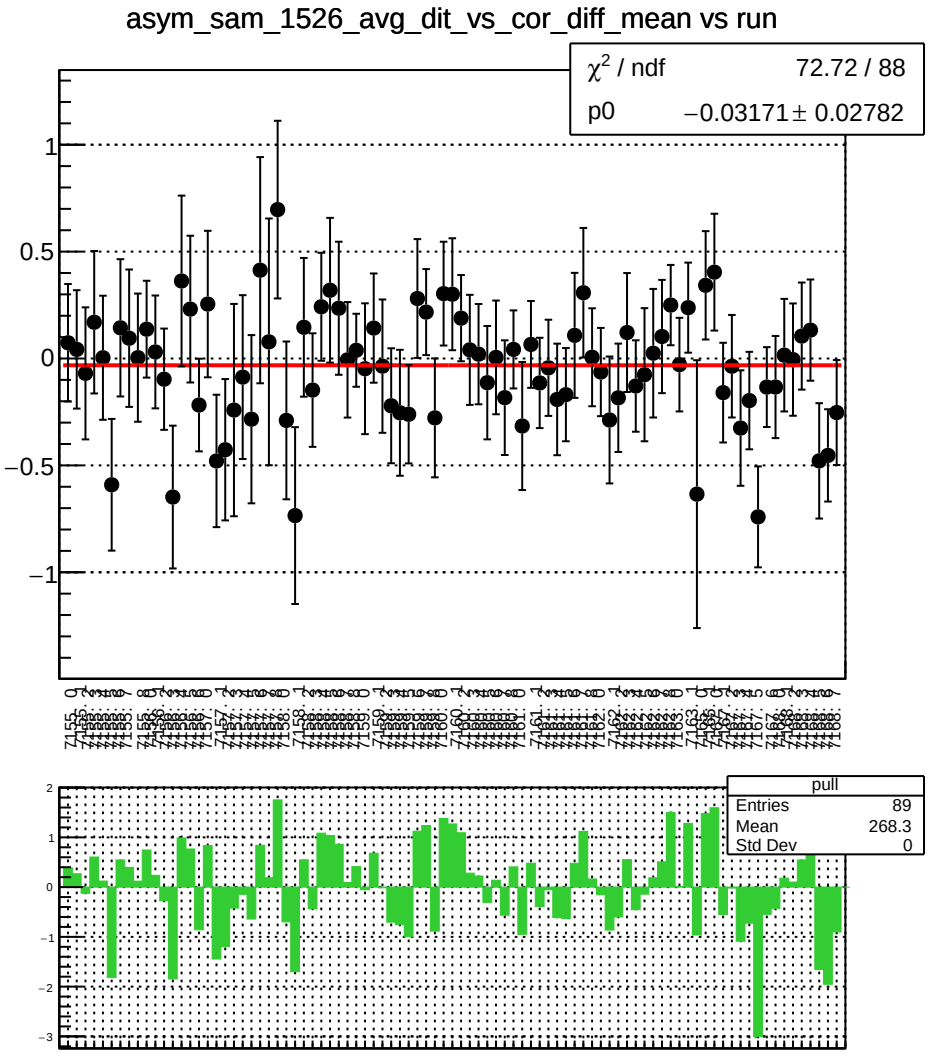

pull1D
Entries 89
Mean −0.01731
Std Dev 0.8846

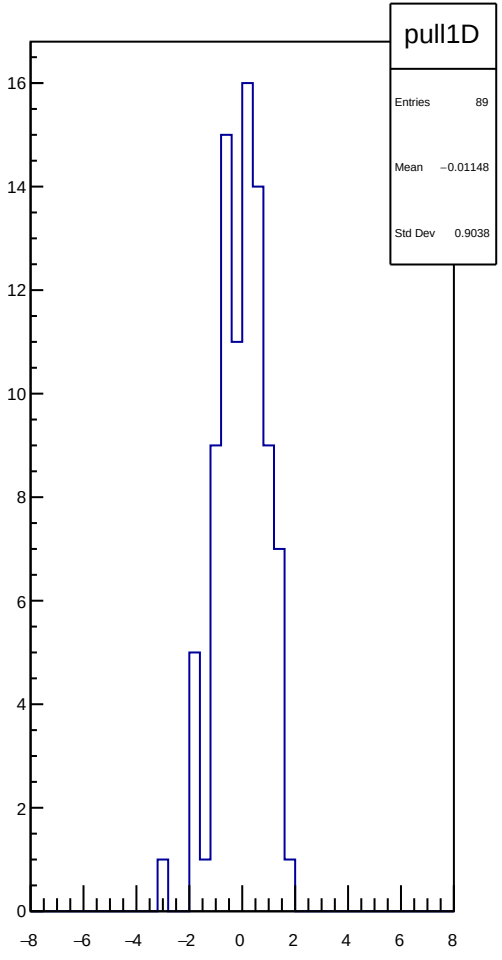

asym_sam_1526_avg_rms vs run
χ² / ndf 3934 / 88
p0 219.7 ± 0.1672
280
270
260
250
240
230
220
210
200
190

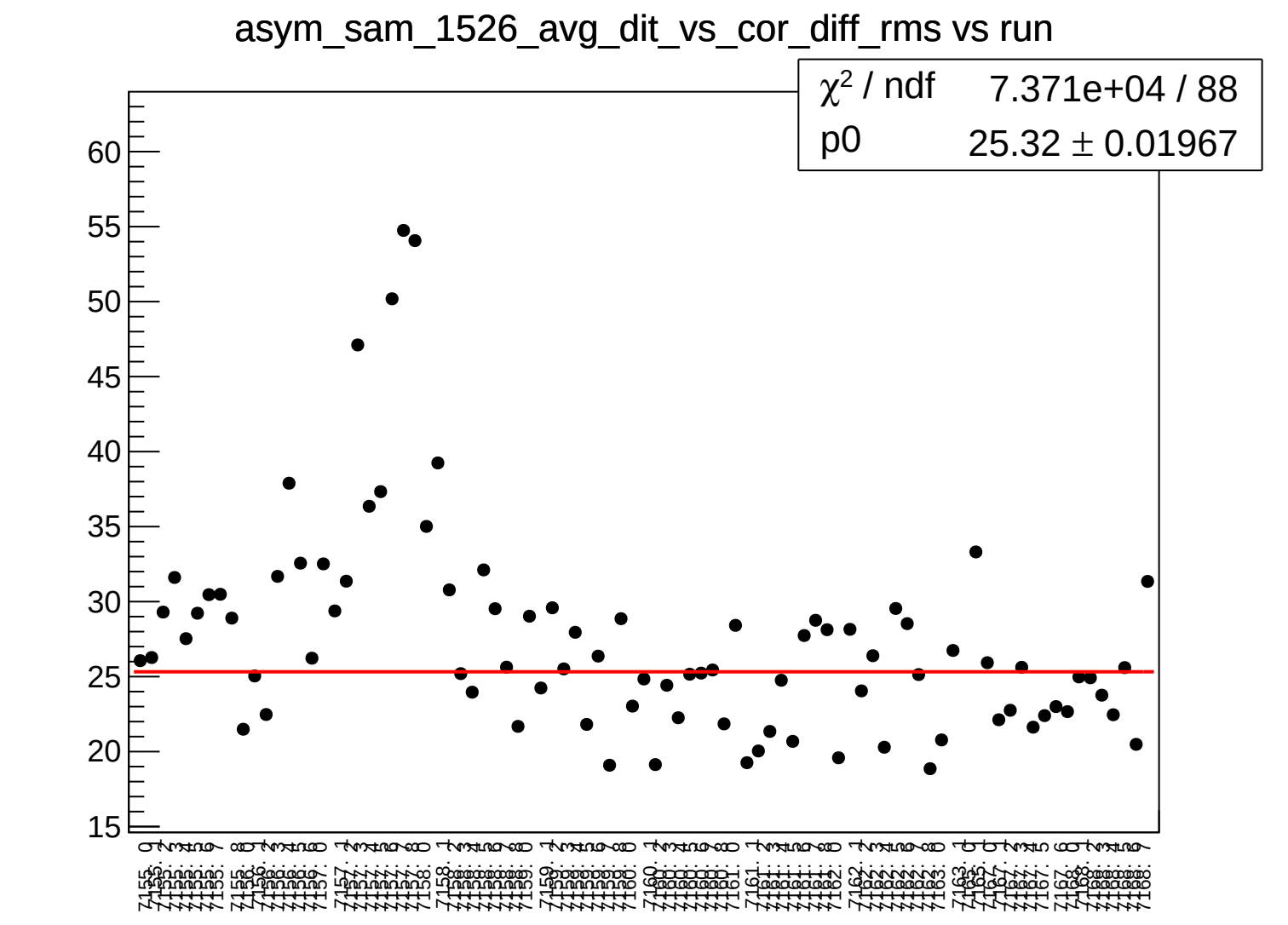

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.9 / 88
p0 −1.884e−14 ± 8.075e−15
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 89
Mean 62.5
Std Dev 45.81
3
2
1
0
−1
−2
−3

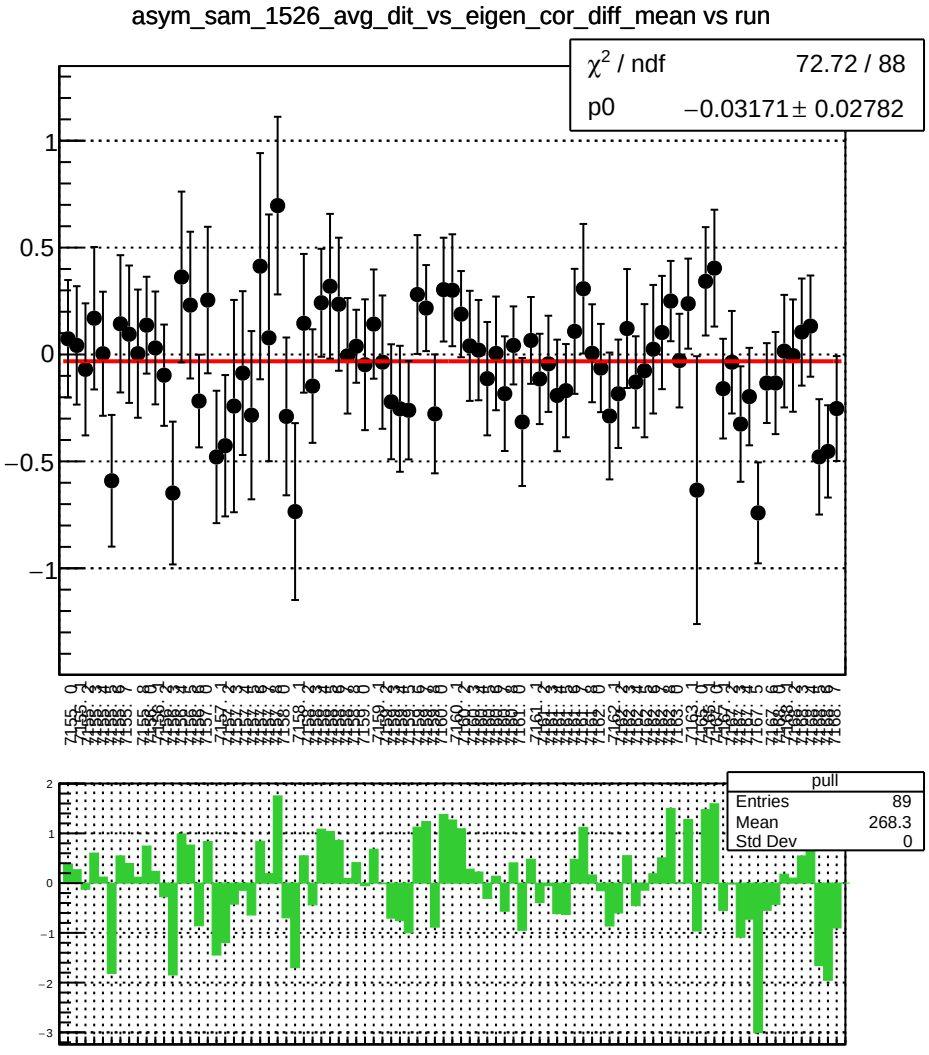

pull1D
Entries 89
Mean −0.05469
Std Dev 0.998
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

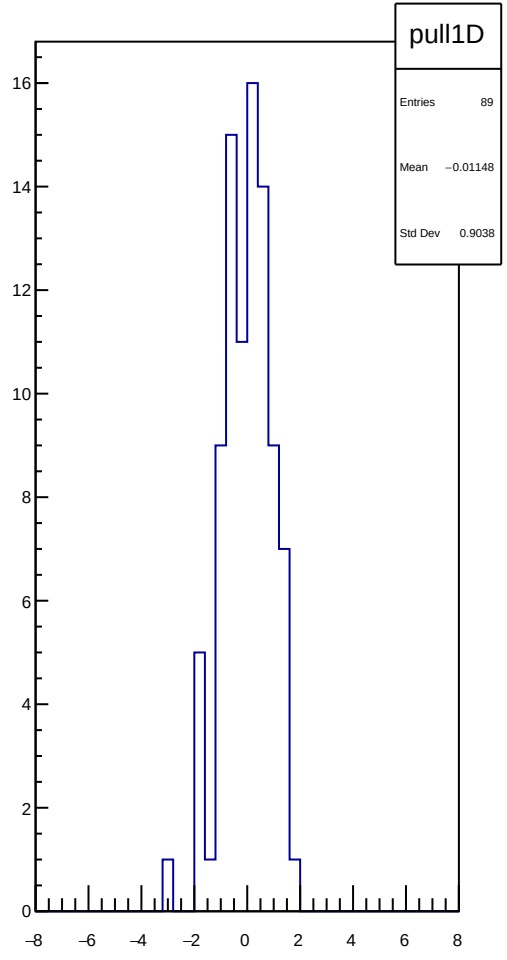

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.165e+06 / 88
p0 4.294e−12 ± 5.71e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

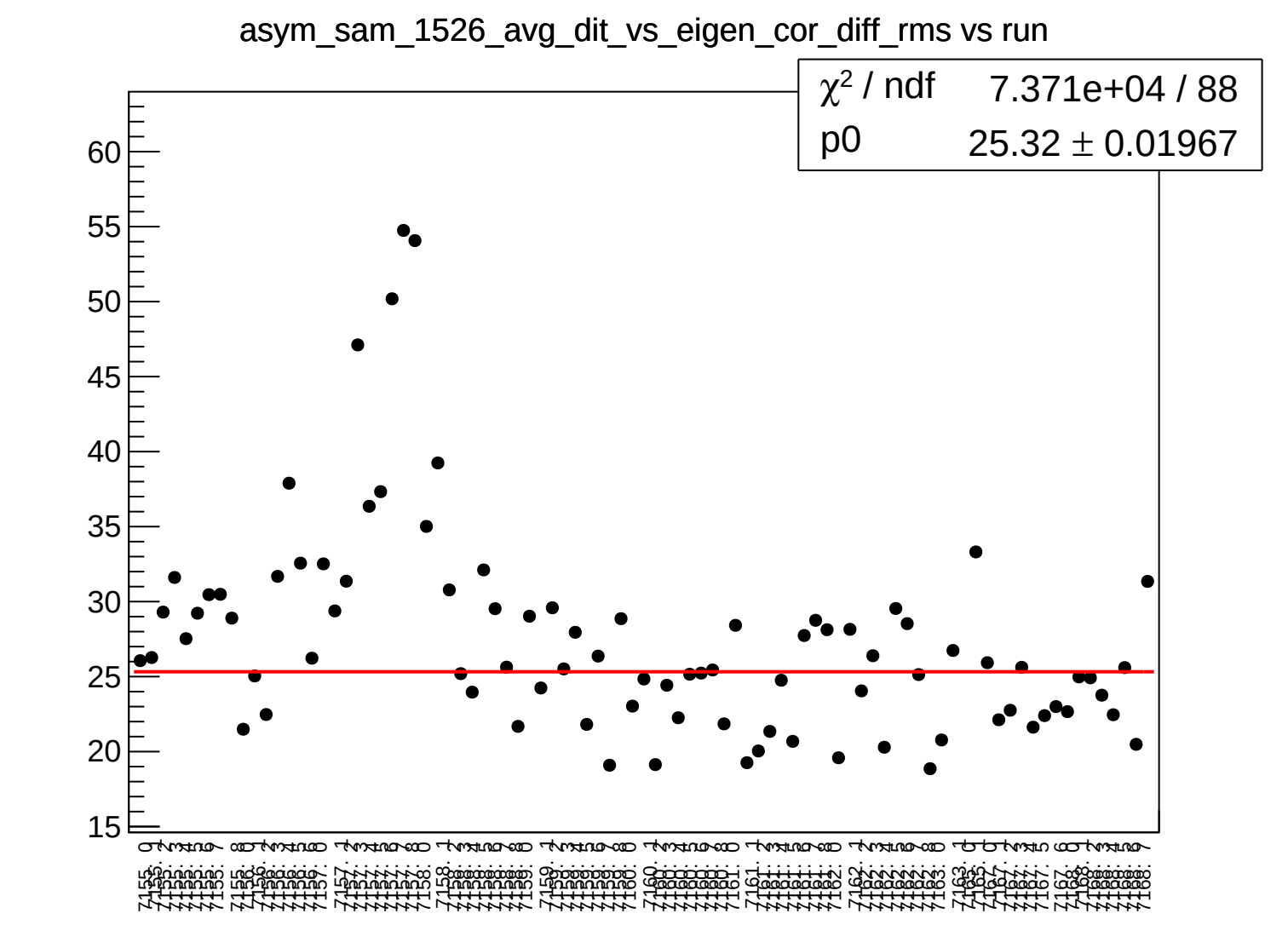

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 88
p0 −0.03171 ± 0.02782
pull
Entries 89
Mean 268.3
Std Dev 0

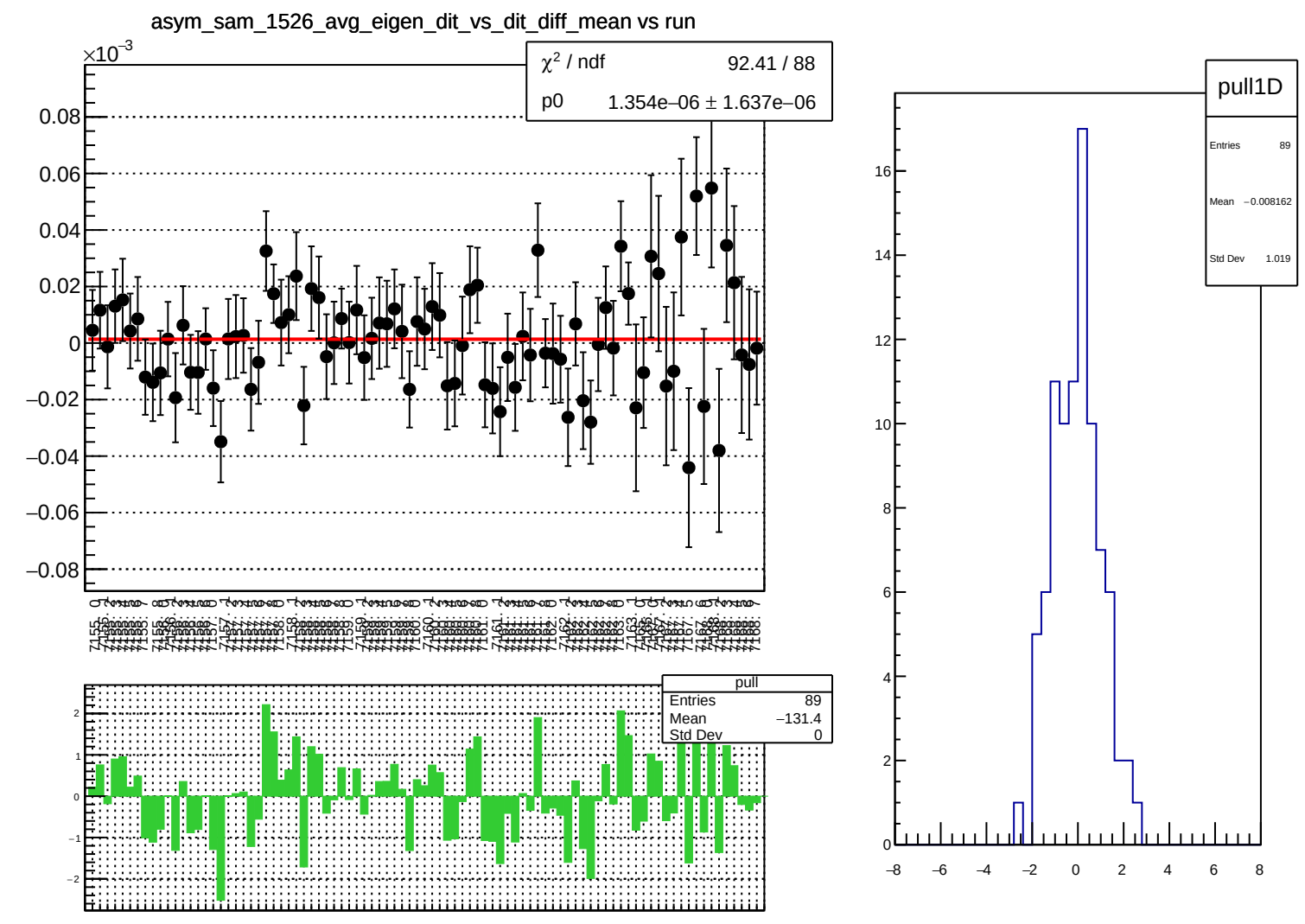

pull1D
Entries 89
Mean −0.01148
Std Dev 0.9038

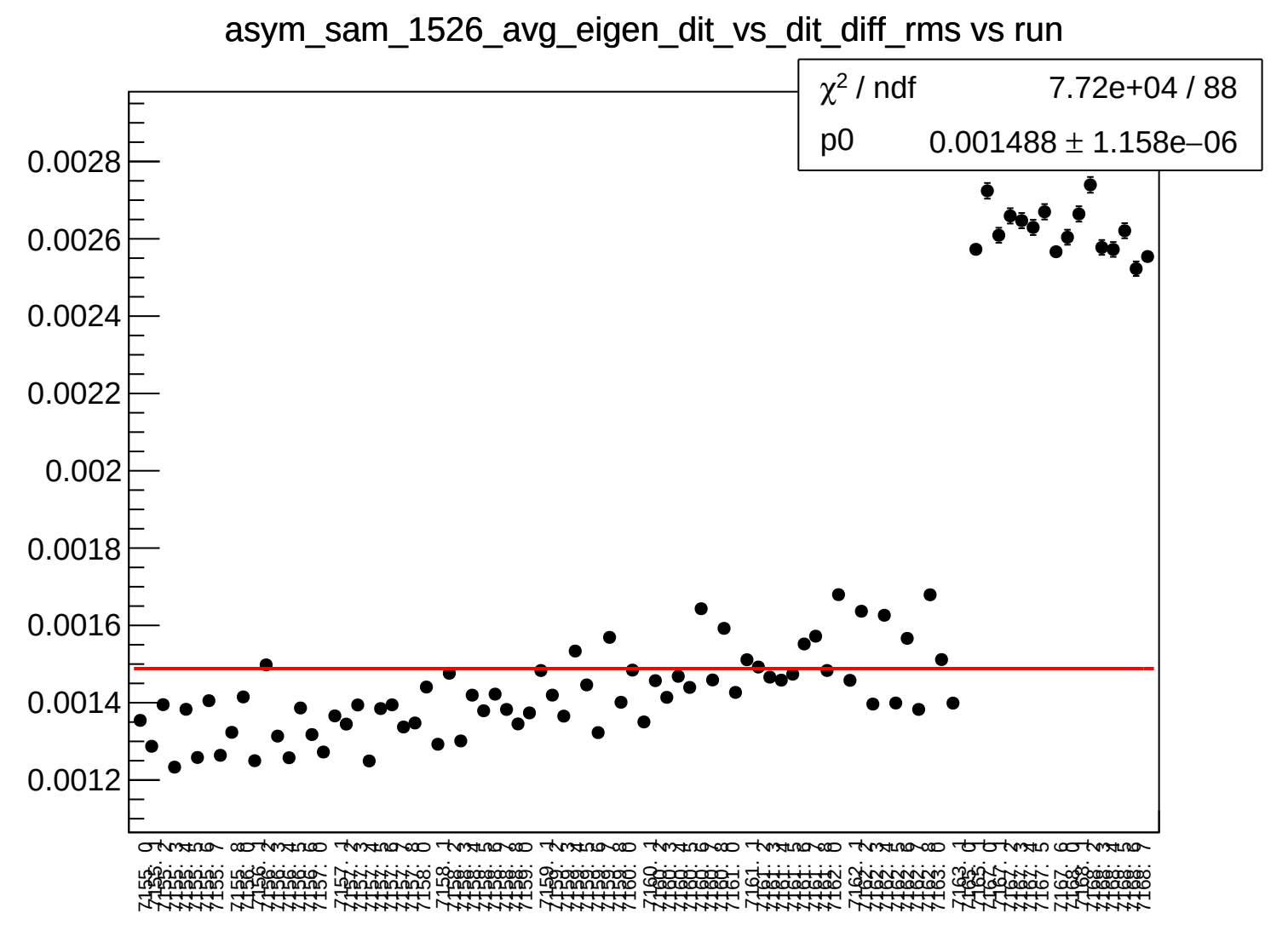

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.371e+04 / 88
p0 25.32 ± 0.01967
60
55
50
45
40
35
30
25
20
15

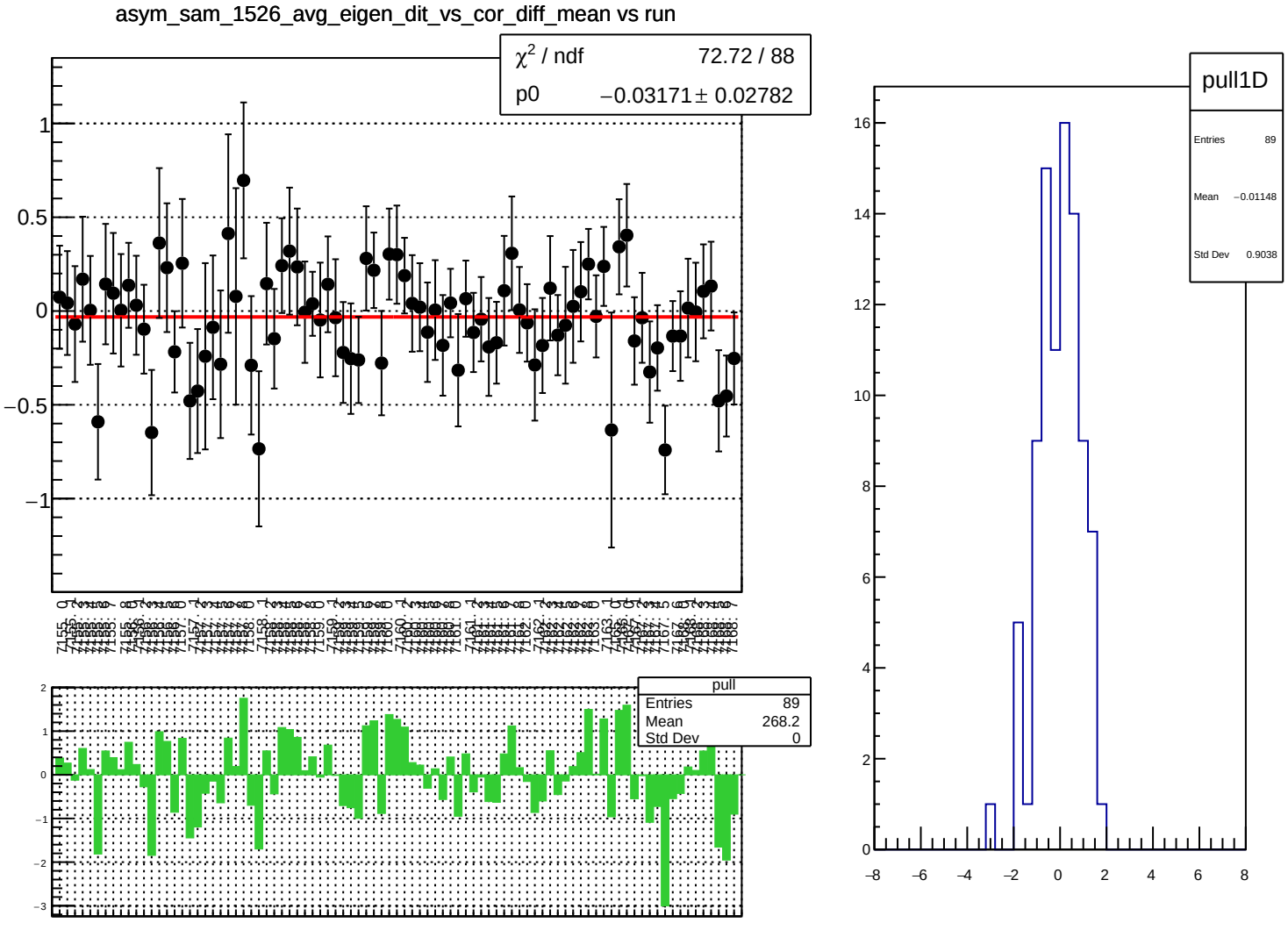

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 88
p0 −0.03171 ± 0.02782
pull
Entries 89
Mean 268.3
Std Dev 0

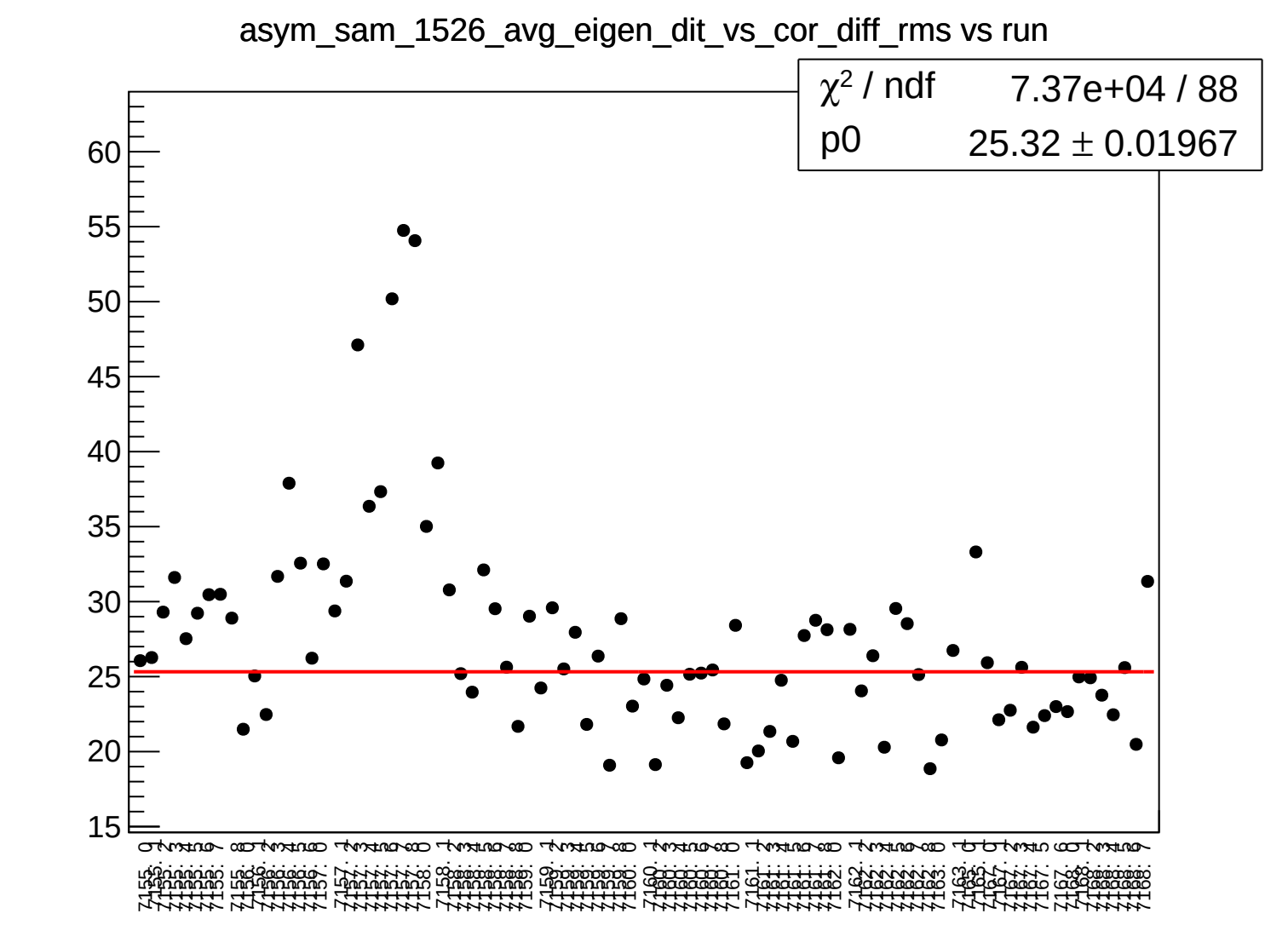

pull1D
Entries 89
Mean −0.01148
Std Dev 0.9038

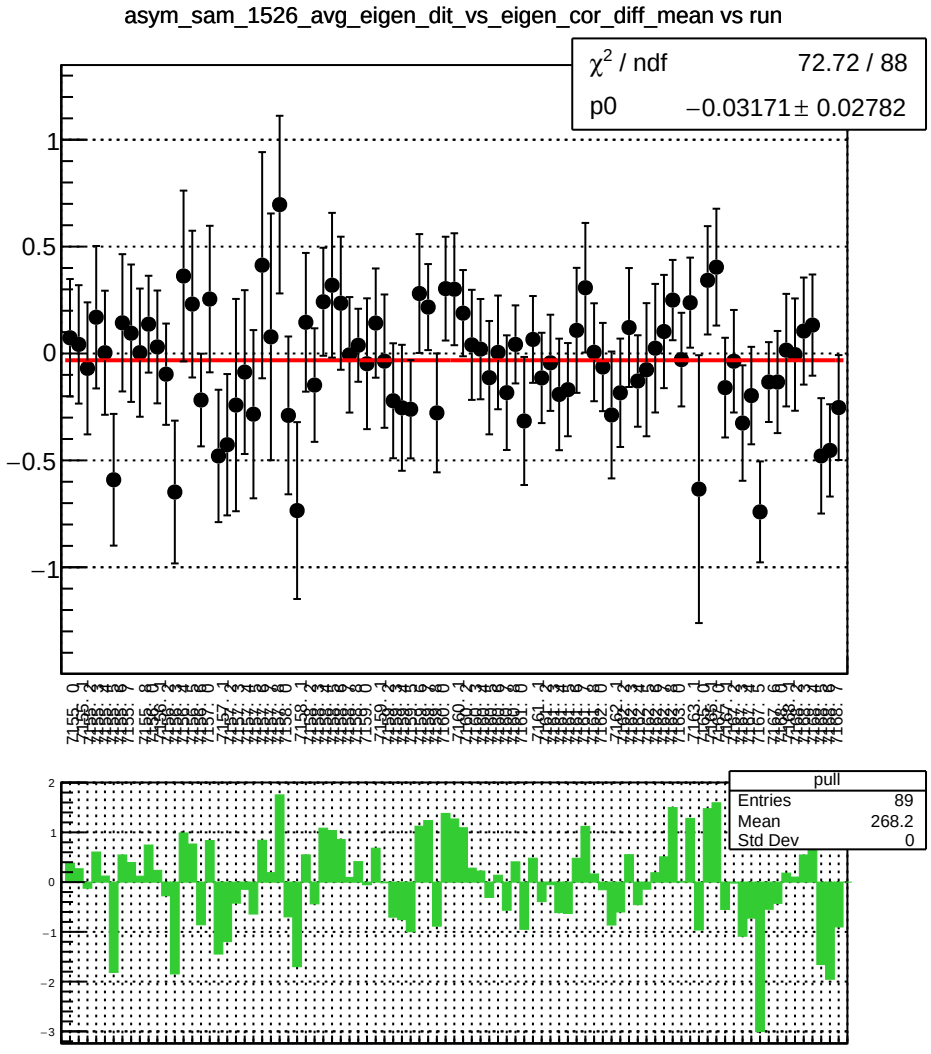

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.371e+04 / 88
p0 25.32 ± 0.01967
60
55
50
45
40
35
30
25
20
15

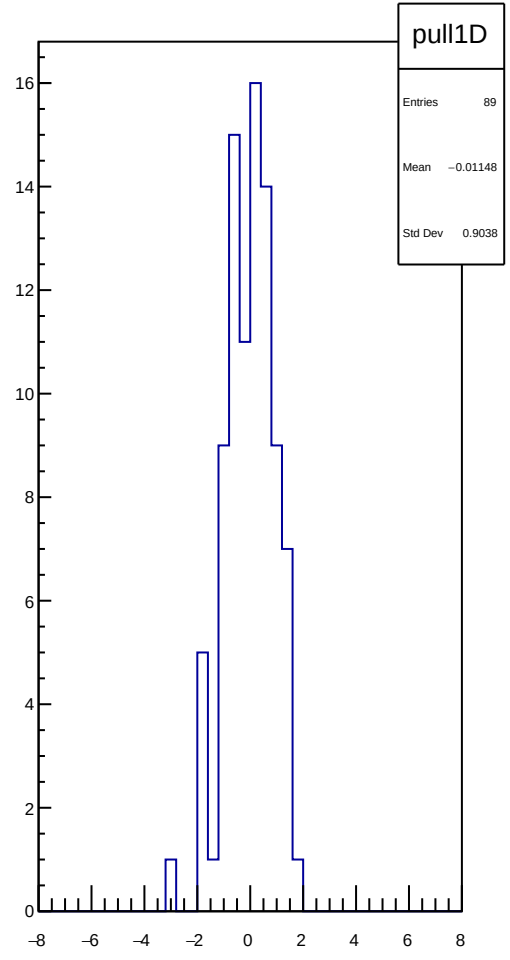

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 92.41 / 88
p0 1.354e−06 ± 1.637e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −131.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.008162
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

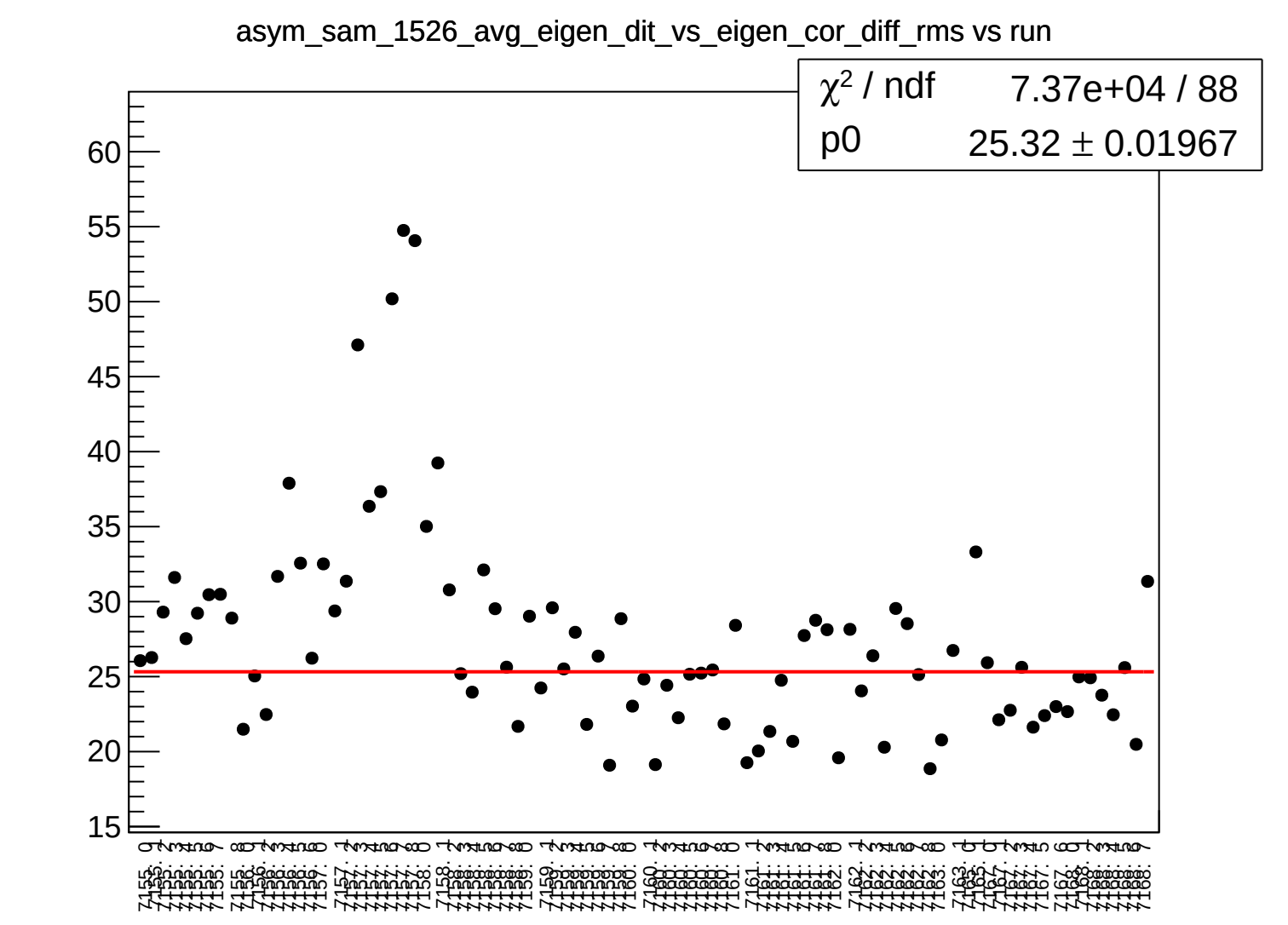

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.72e+04 / 88
p0 0.001488 ± 1.158e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

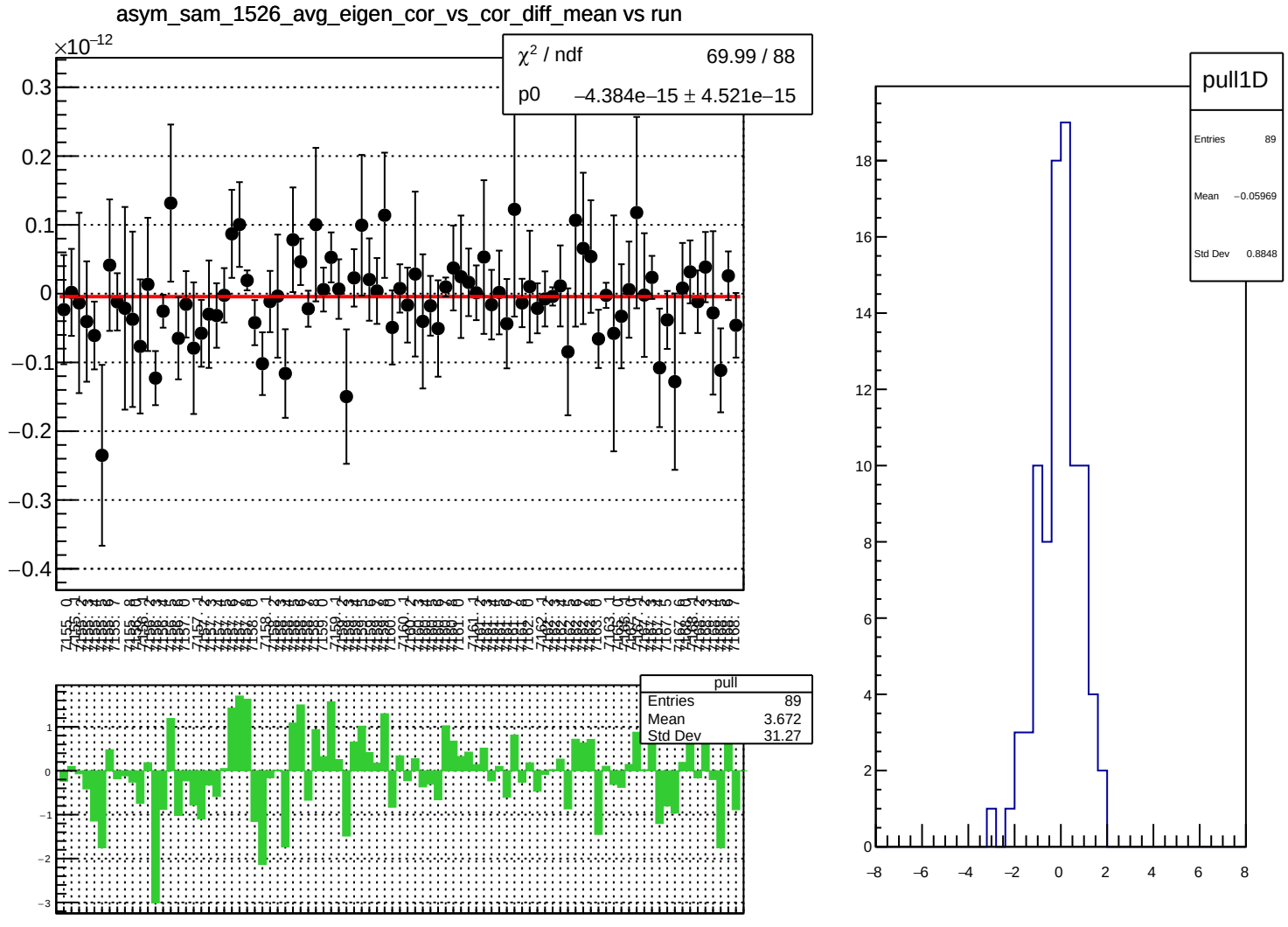

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.72 / 88
p0 −0.03171 ± 0.02782
pull
Entries 89
Mean 268.2
Std Dev 0
pull1D
Entries 89
Mean −0.01148
Std Dev 0.9038

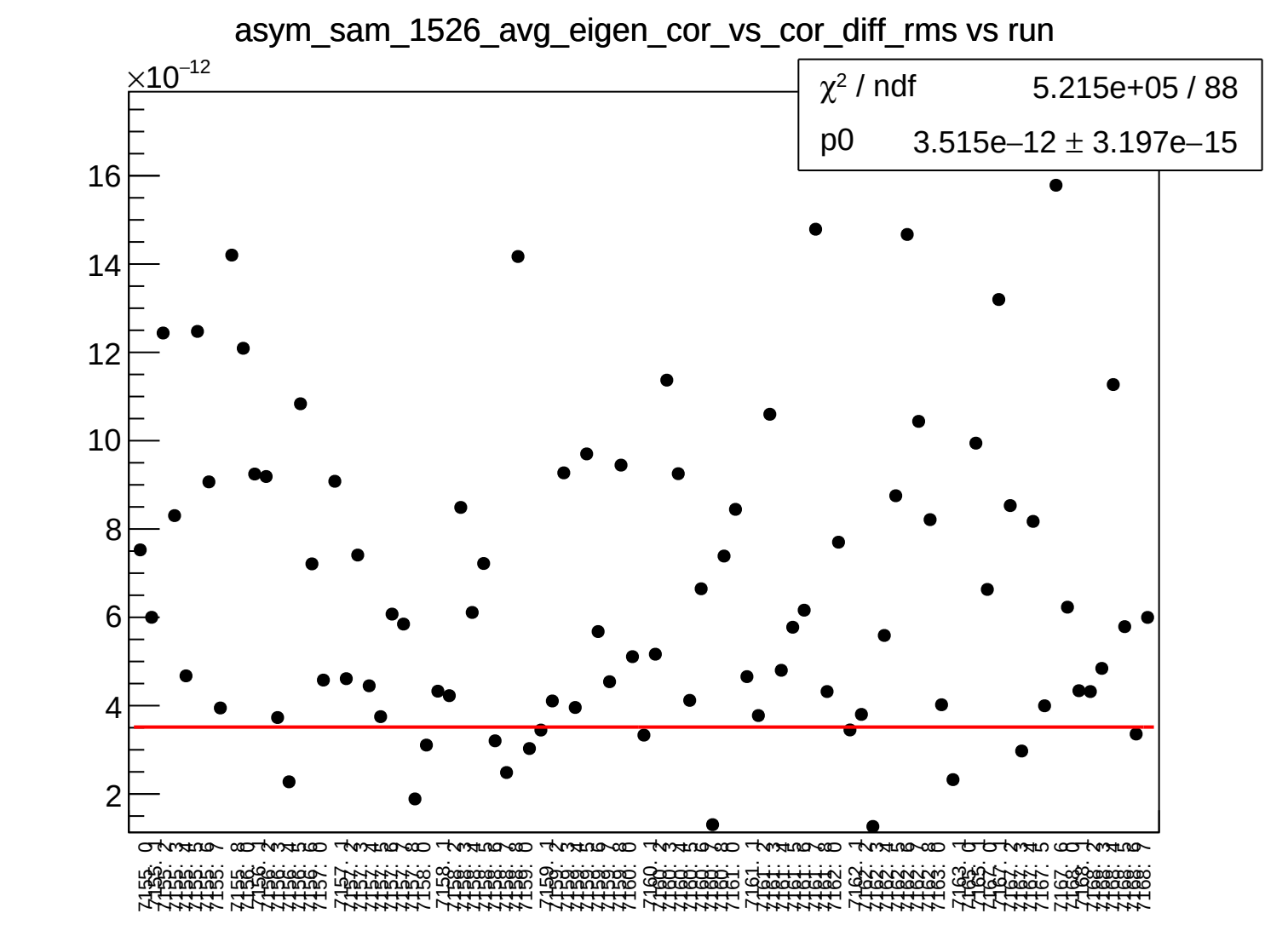

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.37e+04 / 88
p0 25.32 ± 0.01967
60
55
50
45
40
35
30
25
20
15

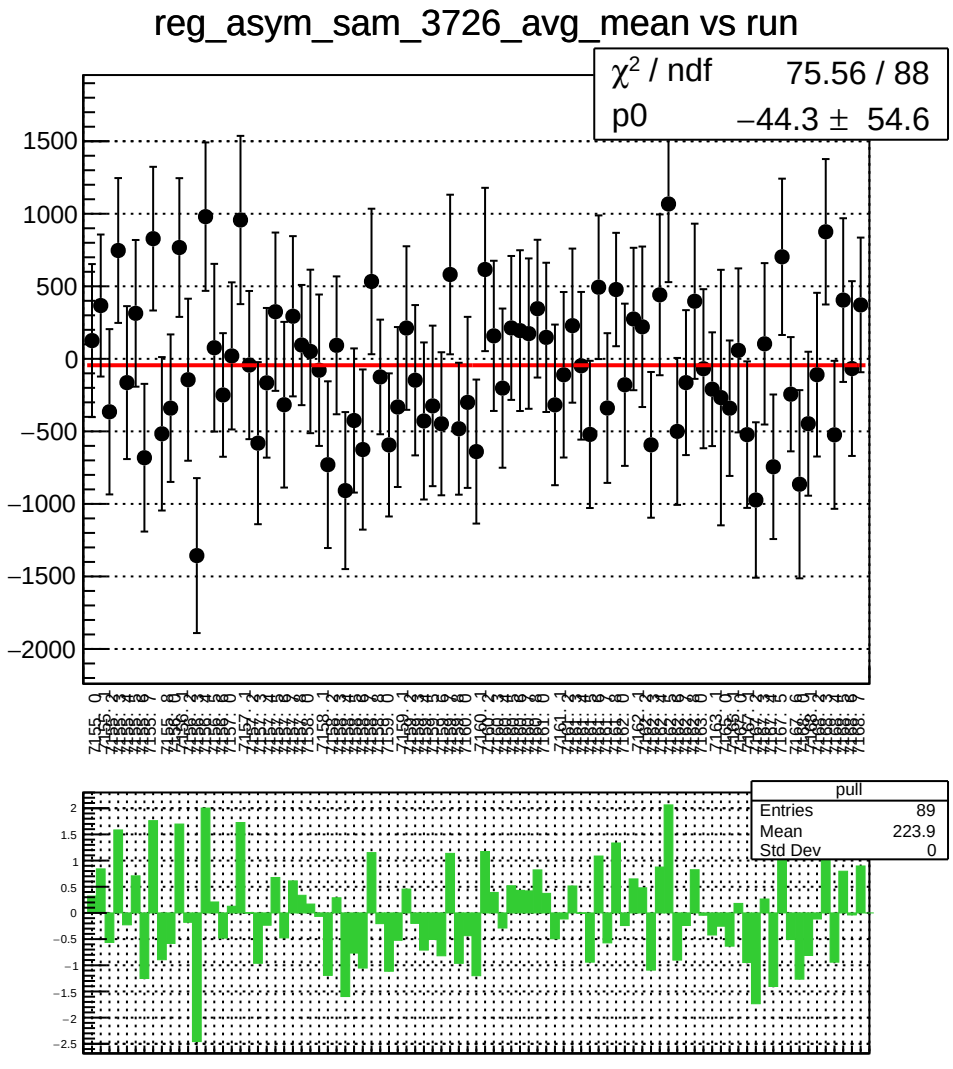

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.72 / 88
p0 −0.03171 ± 0.02782
pull
Entries 89
Mean 268.2
Std Dev 0

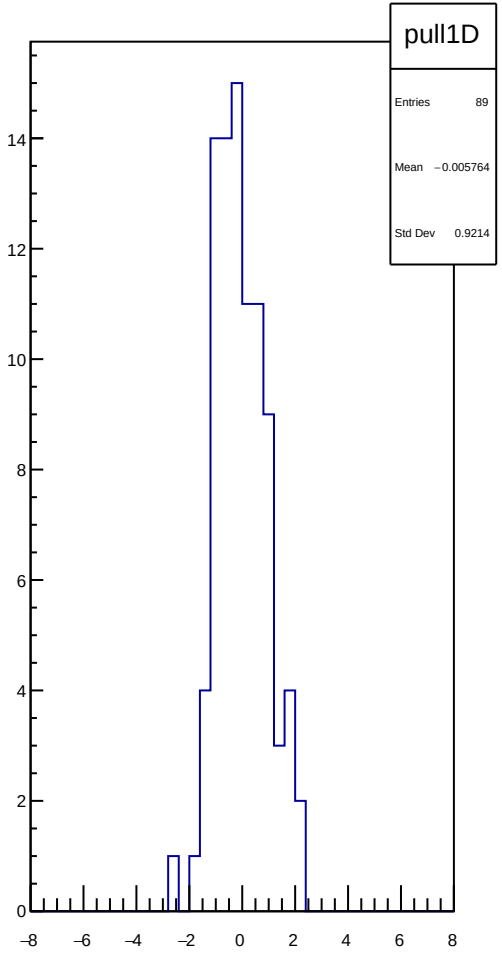

pull1D
Entries 89
Mean −0.01148
Std Dev 0.9038

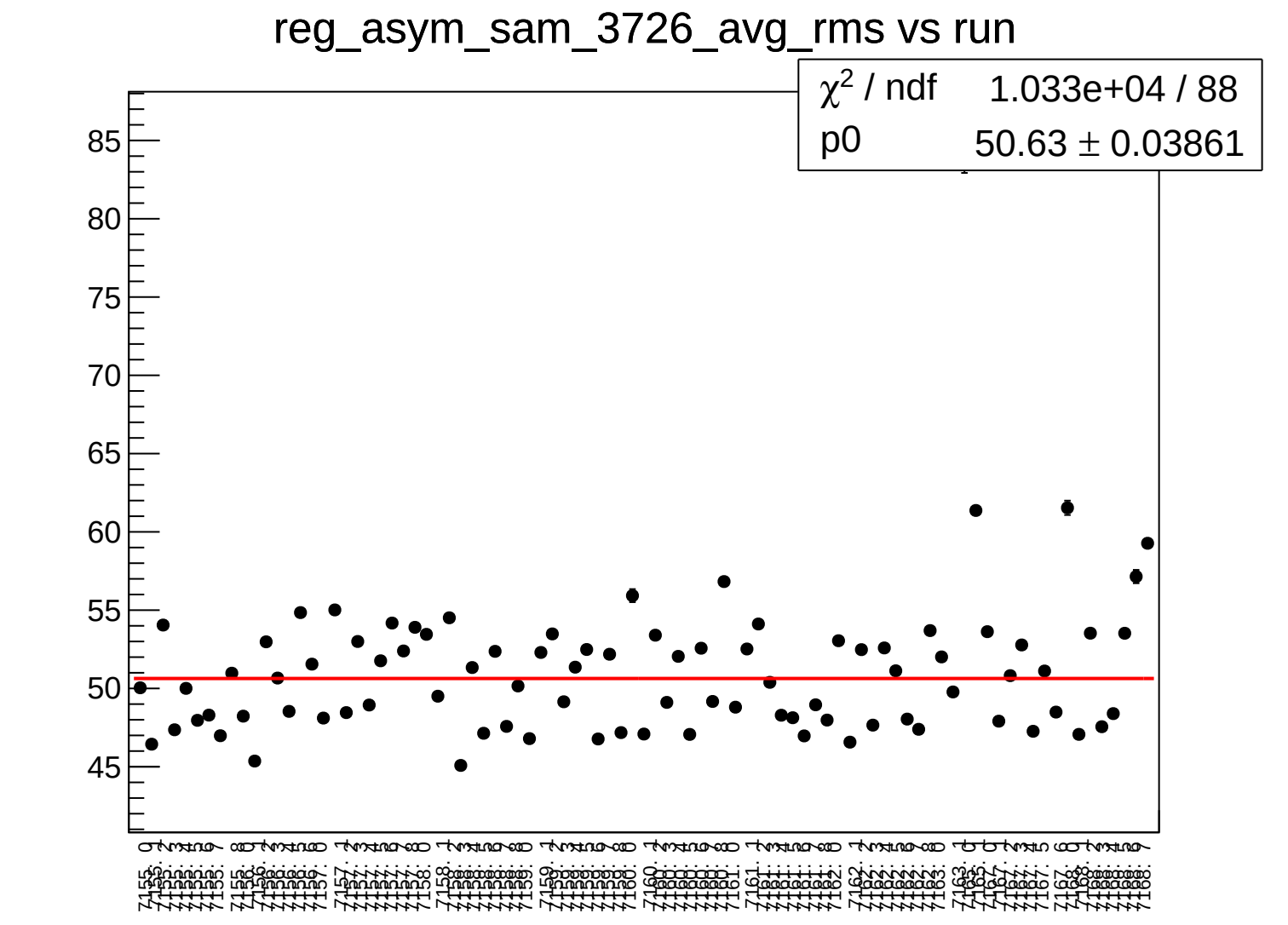

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.37e+04 / 88
p0 25.32 ± 0.01967
60
55
50
45
40
35
30
25
20
15

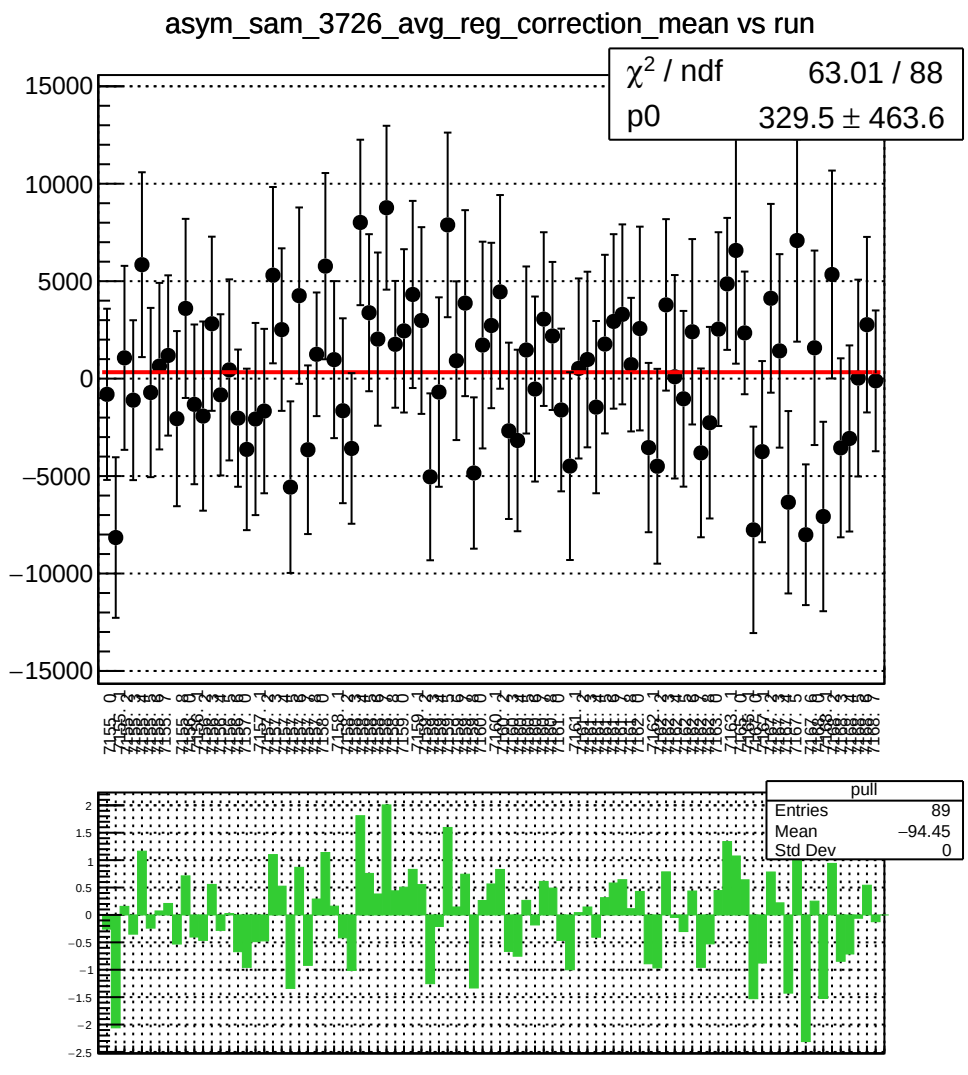

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 69.99 / 88
p0 −4.384e−15 ± 4.521e−15
pull
Entries 89
Mean 3.672
Std Dev 31.27
pull1D
Entries 89
Mean −0.05969
Std Dev 0.8848

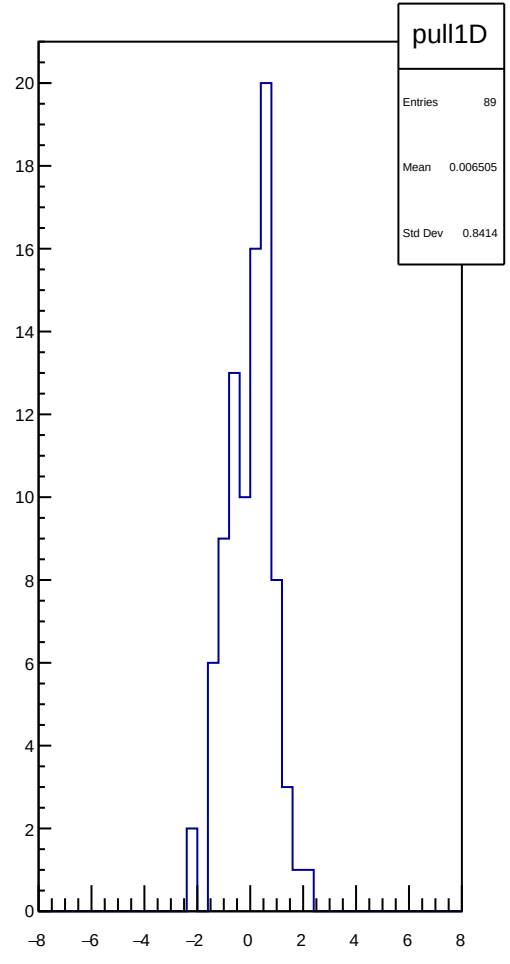

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.215e+05 / 88
p0 3.515e−12 ± 3.197e−15
16
14
12
10
8
6
4
2

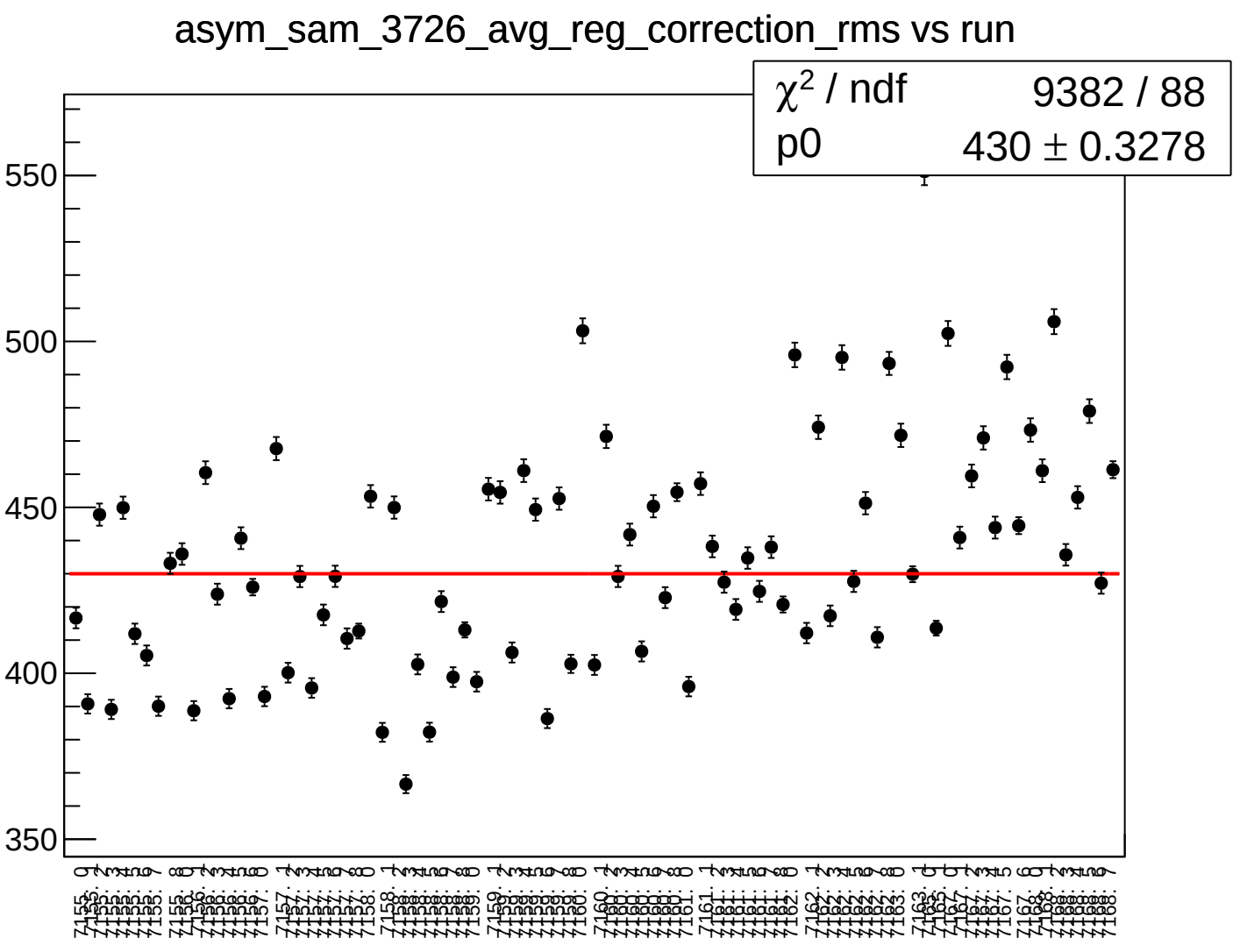

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 75.56 / 88
p0 −44.3 ± 54.6
pull
Entries 89
Mean 223.9
Std Dev 0

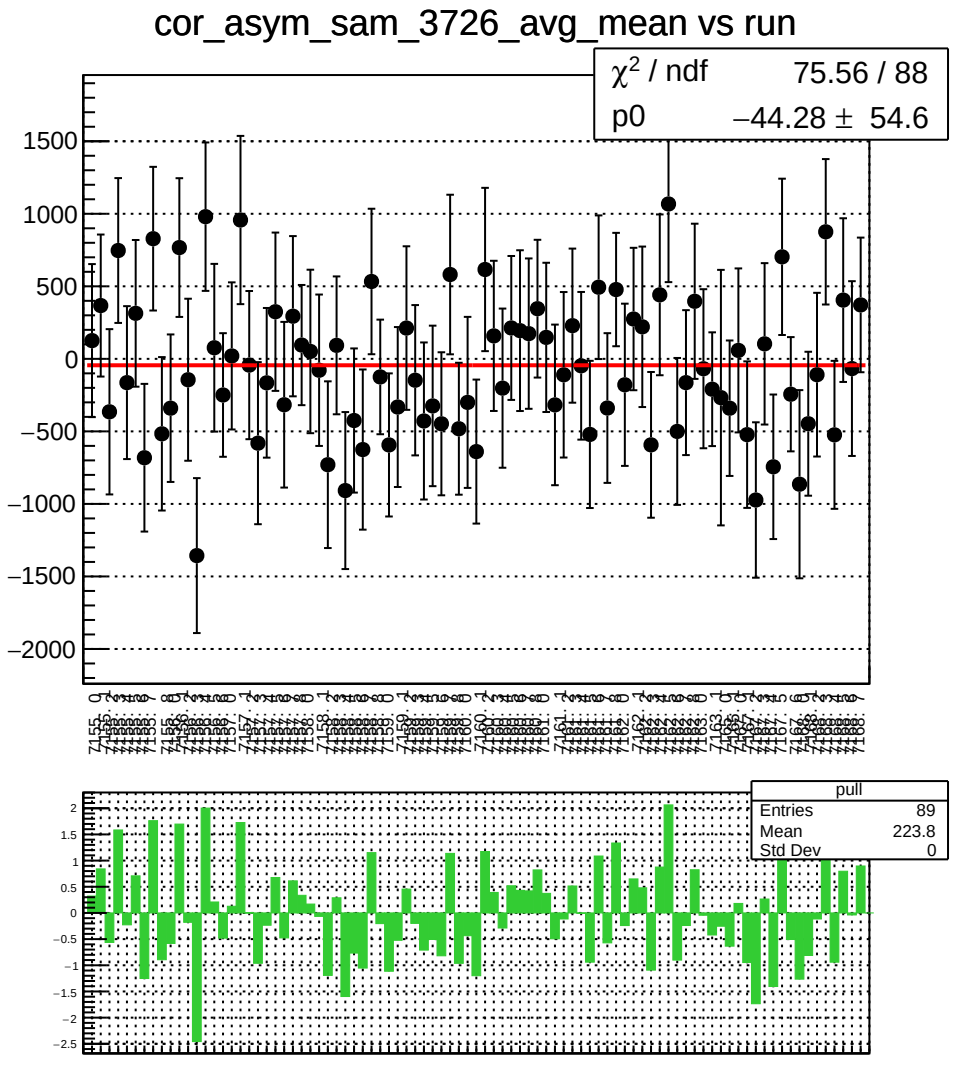

pull1D
Entries 89
Mean −0.005764
Std Dev 0.9214

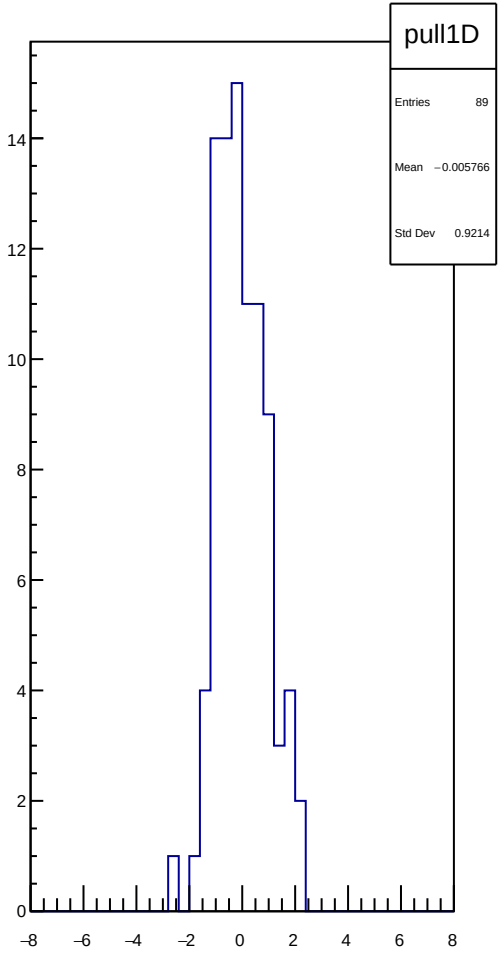

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.033e+04 / 88
p0 50.63 ± 0.03861
85
80
75
70
65
60
55
50
45

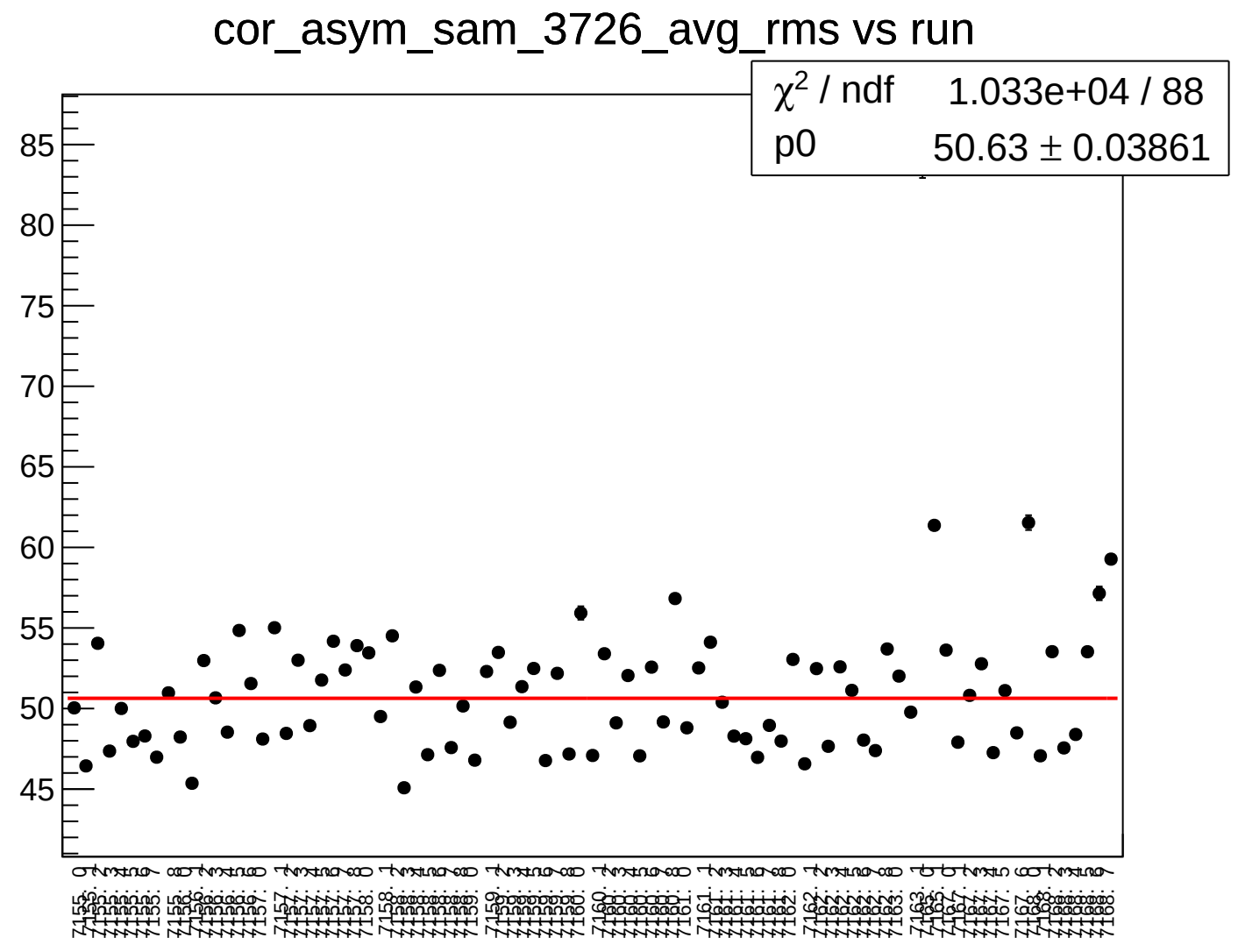

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 63.01 / 88
p0 329.5 ± 463.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −94.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

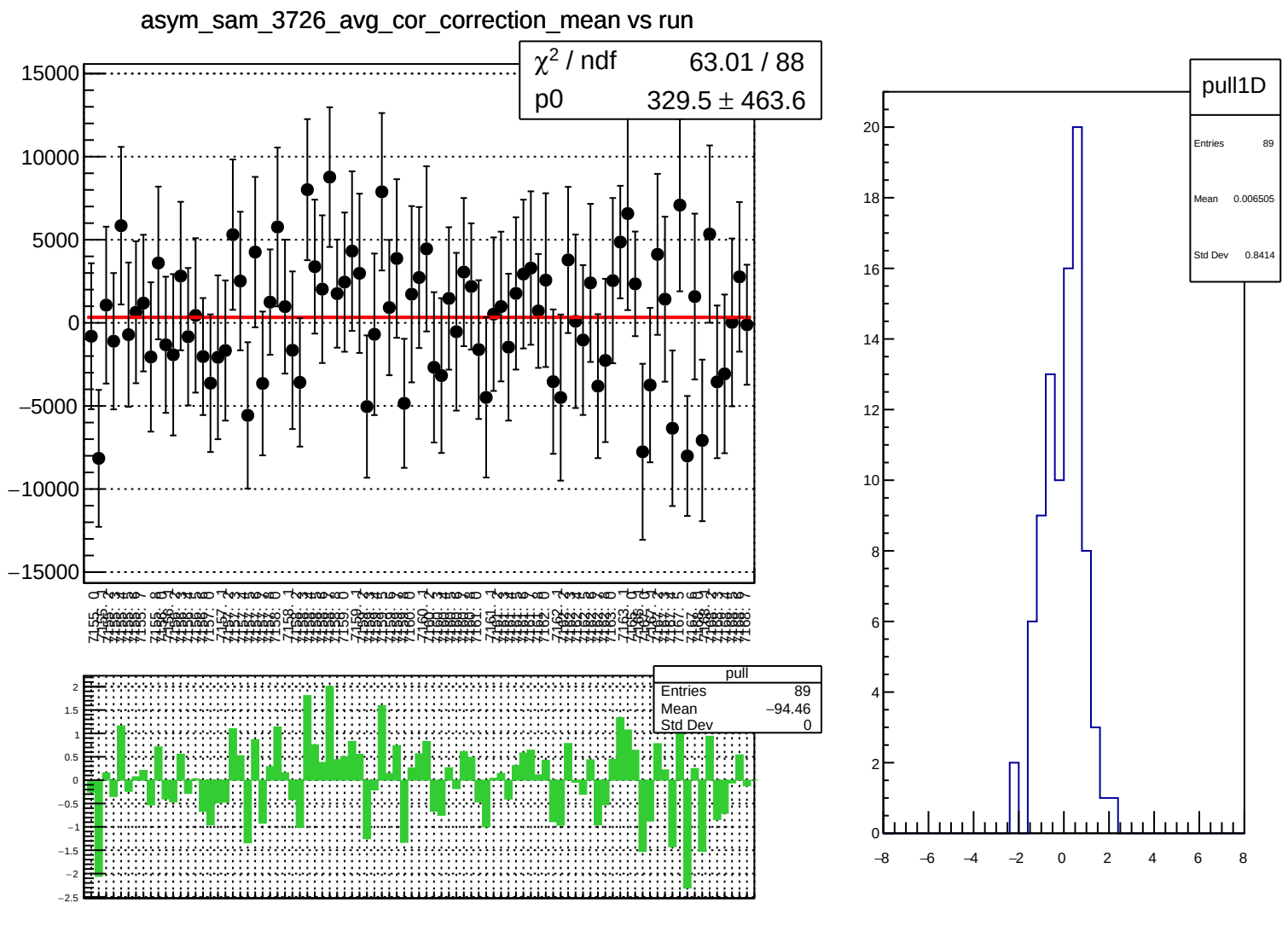

pull1D
Entries 89
Mean 0.006505
Std Dev 0.8414
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

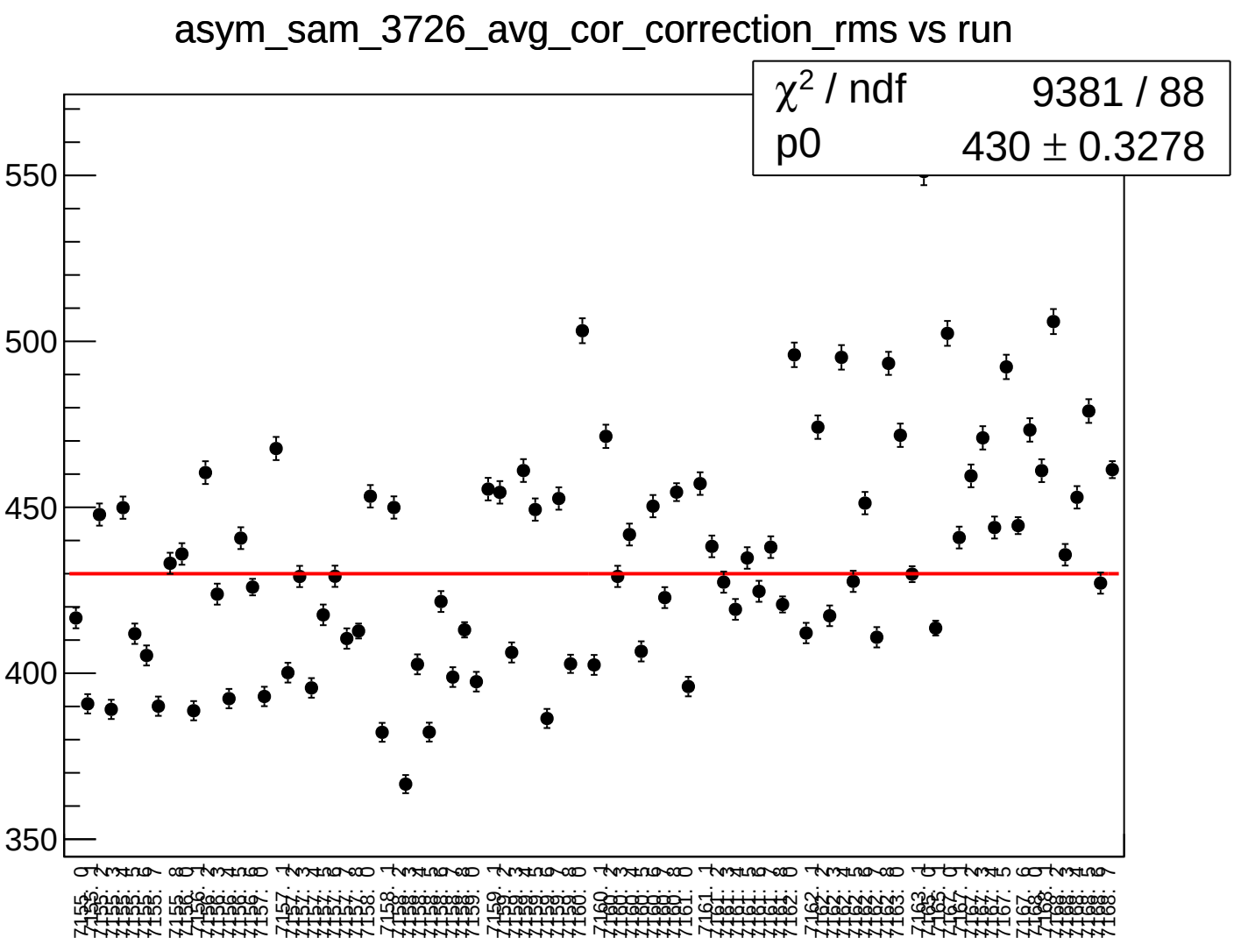

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 9382 / 88
p0 430 ± 0.3278
550
500
450
400
350

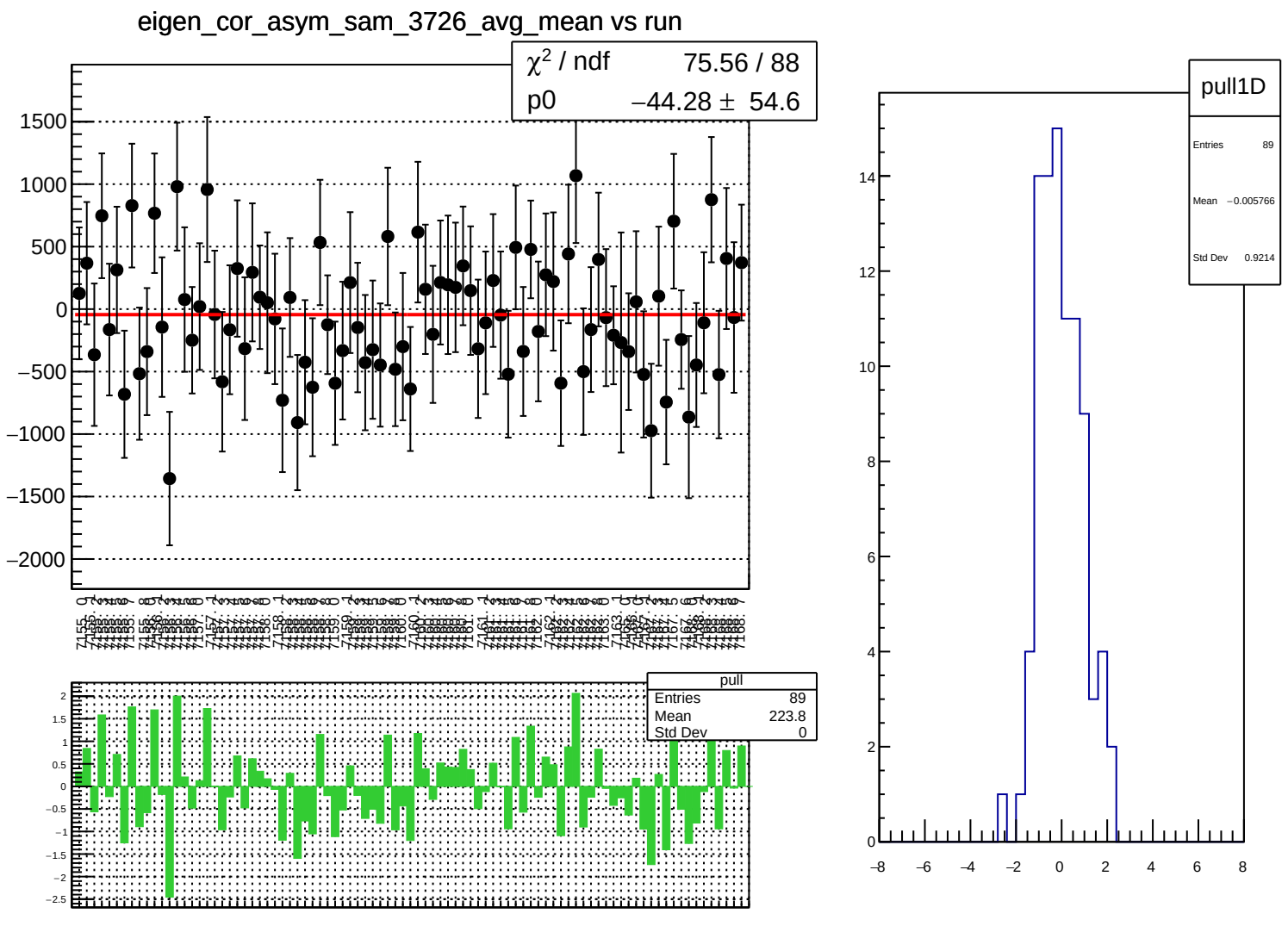

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 75.56 / 88
p0 −44.28 ± 54.6
pull
Entries 89
Mean 223.8
Std Dev 0

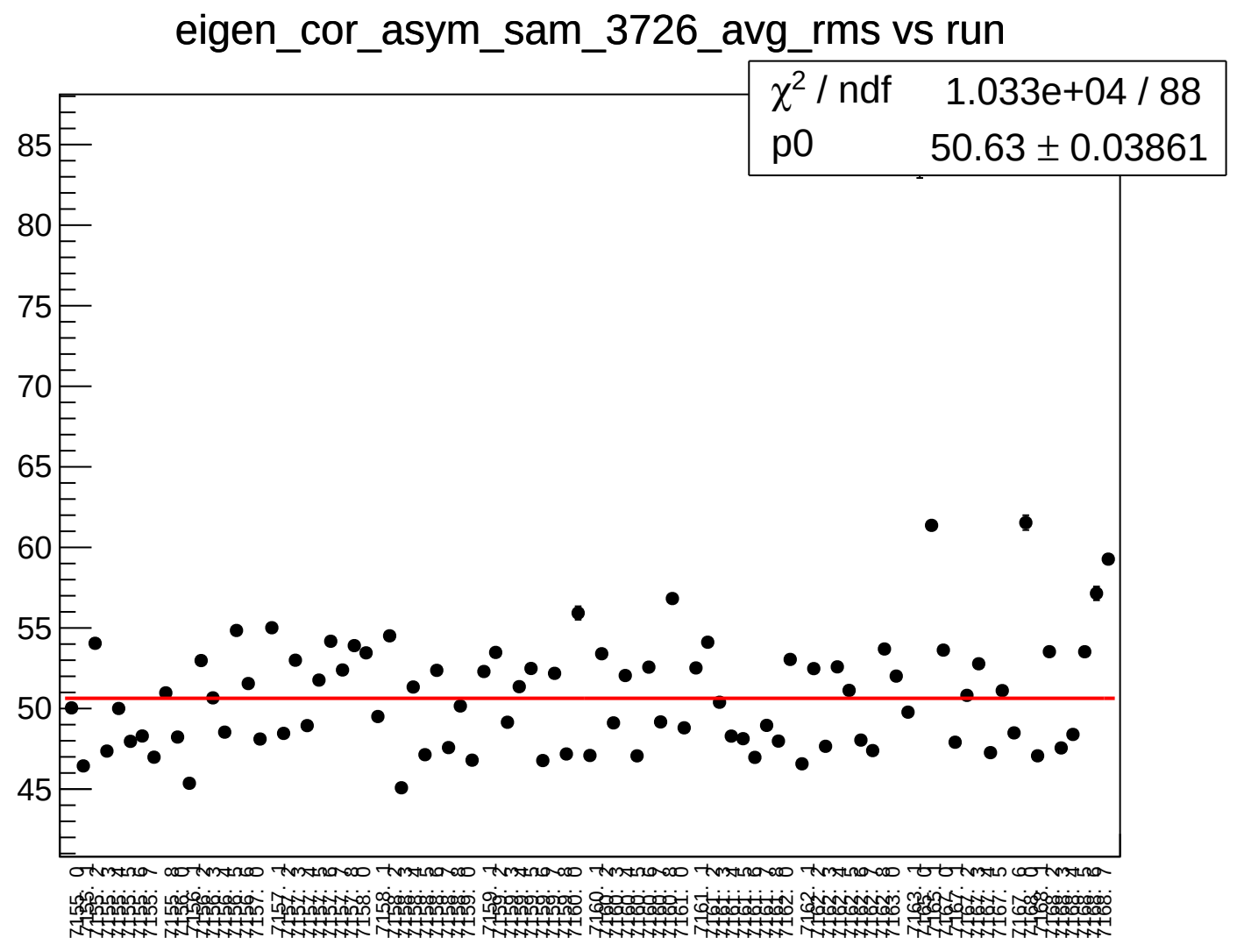

pull1D
Entries 89
Mean −0.005766
Std Dev 0.9214

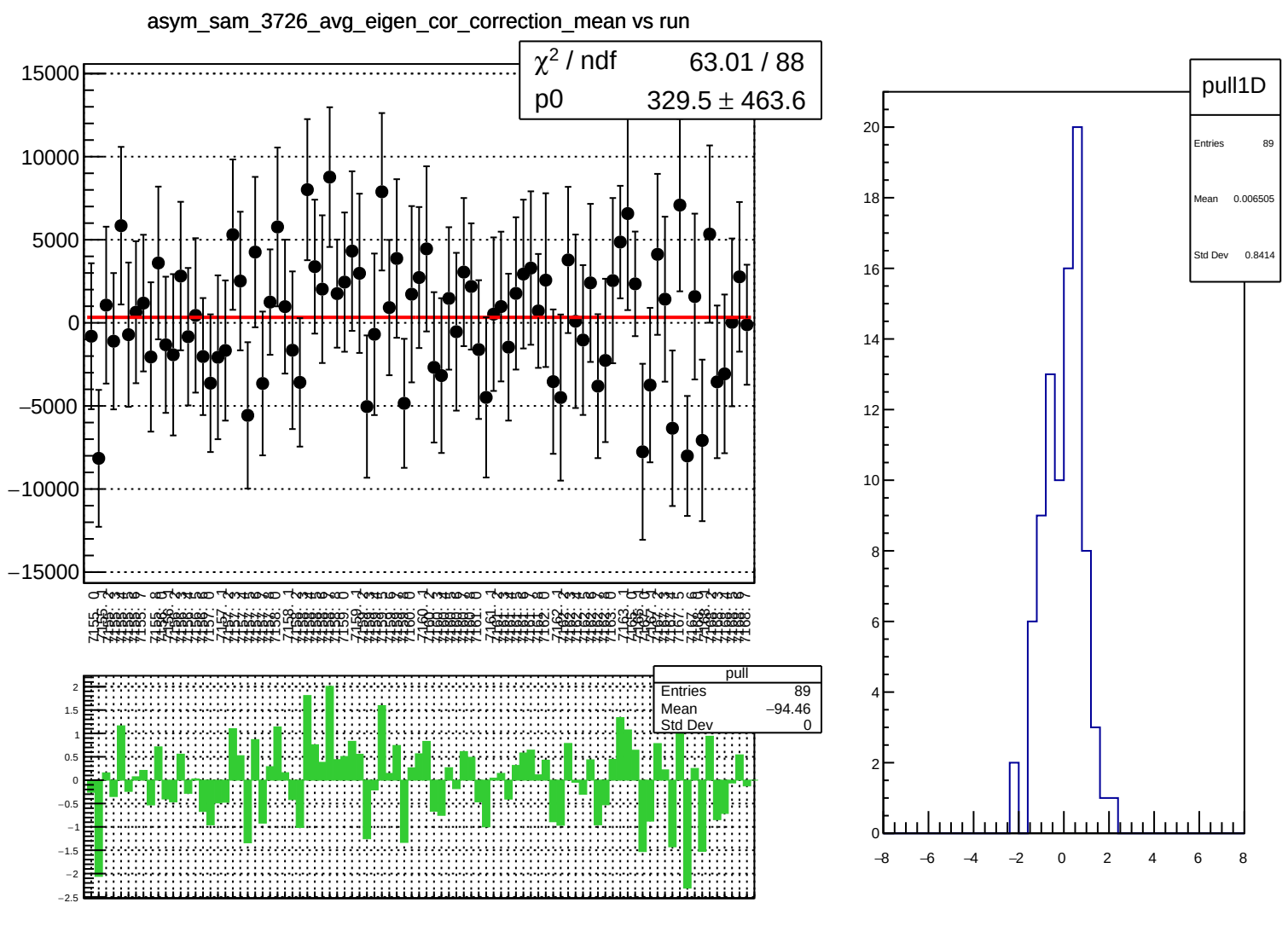

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 1.033e+04 / 88
p0 50.63 ± 0.03861
85
80
75
70
65
60
55
50
45

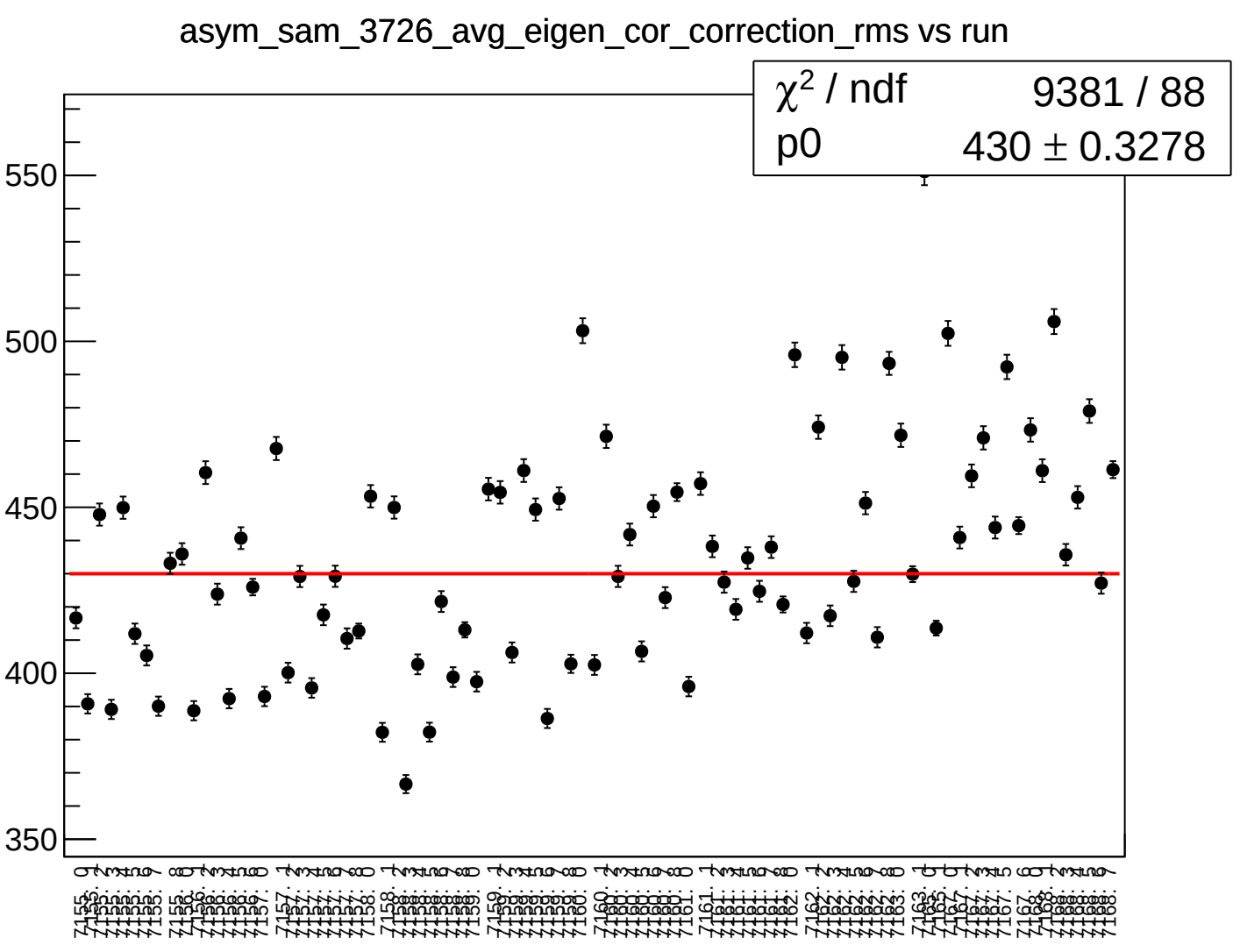

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 63.01 / 88
p0 329.5 ± 463.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −94.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.006505
Std Dev 0.8414
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

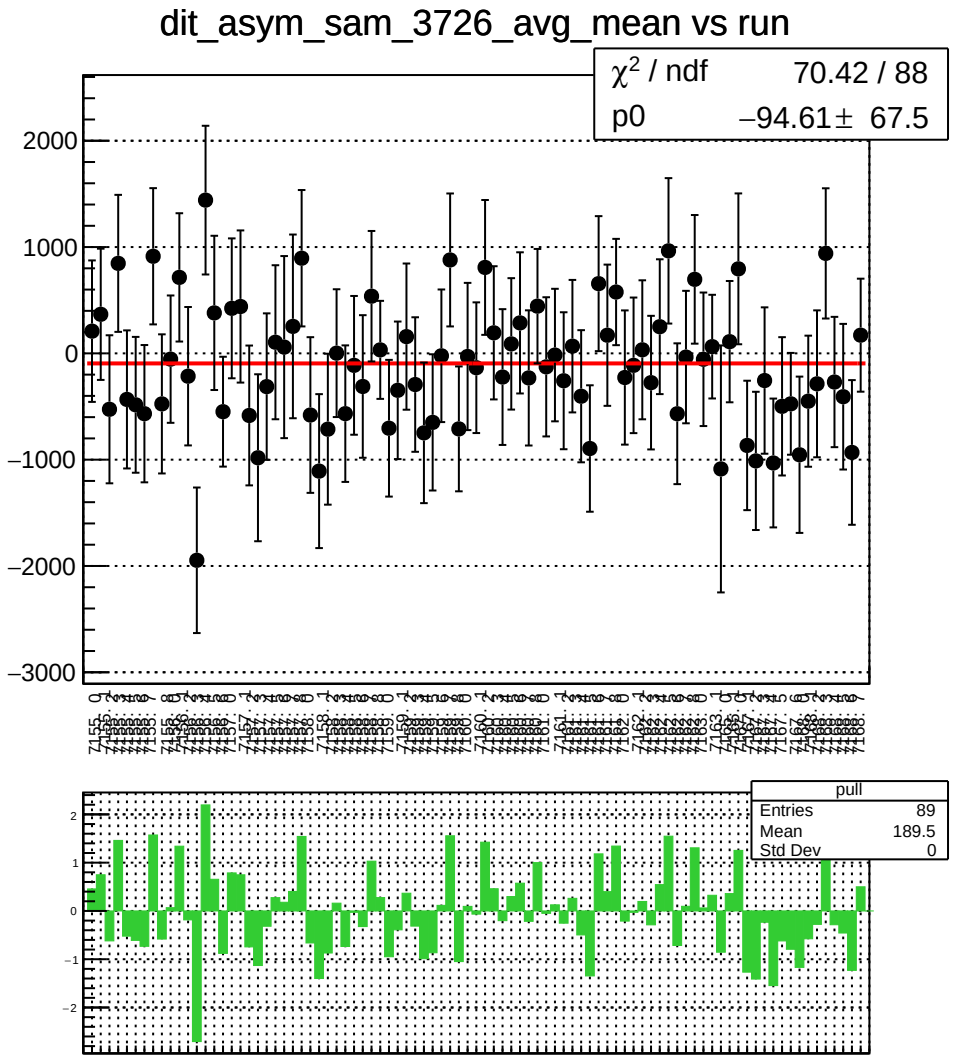

asym_sam_3726_avg_cor_correction_rms vs run
χ^2 / ndf 9381 / 88
p0 430 ± 0.3278
550
500
450
400
350

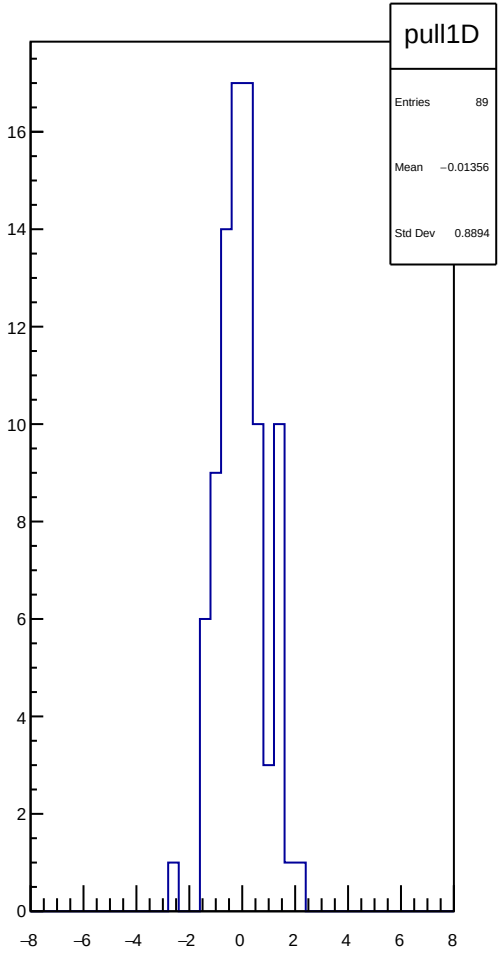

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 75.56 / 88
p0 −44.28 ± 54.6
pull
Entries 89
Mean 223.8
Std Dev 0
pull1D
Entries 89
Mean −0.005766
Std Dev 0.9214

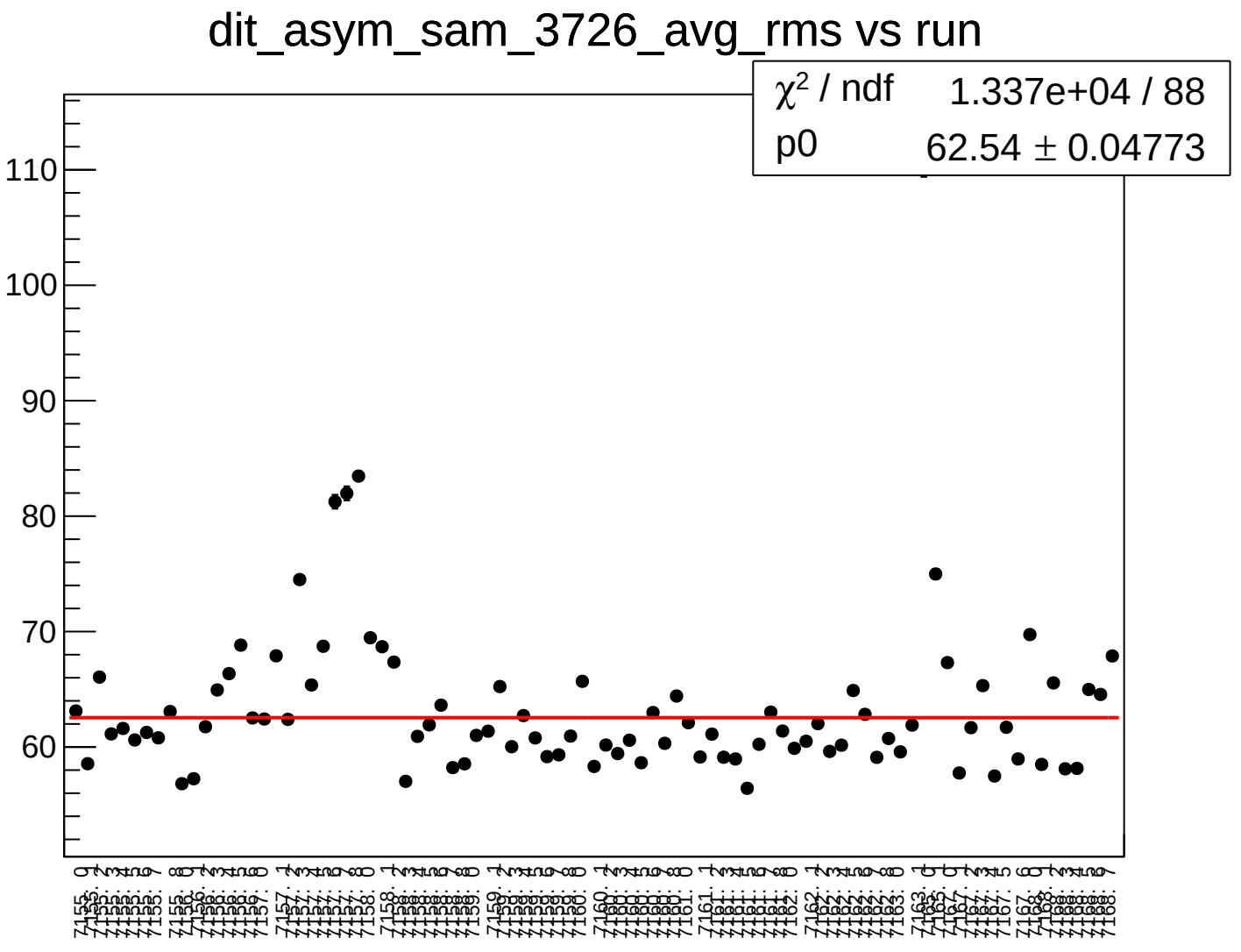

eigen_cor_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.033e+04 / 88
p0 50.63 ± 0.03861
85
80
75
70
65
60
55
50
45

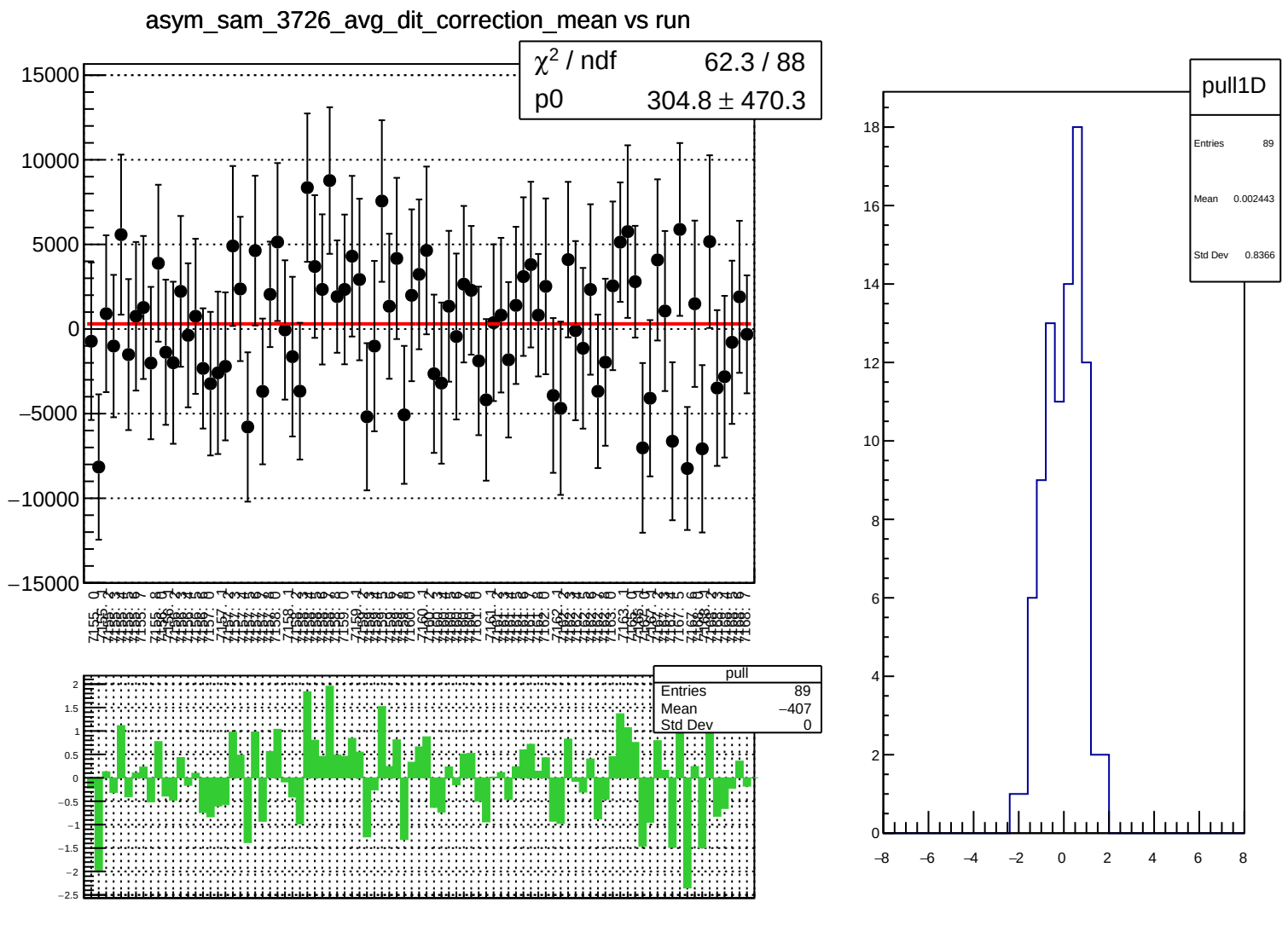

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 63.01 / 88
p0 329.5 ± 463.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −94.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.006505
Std Dev 0.8414
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

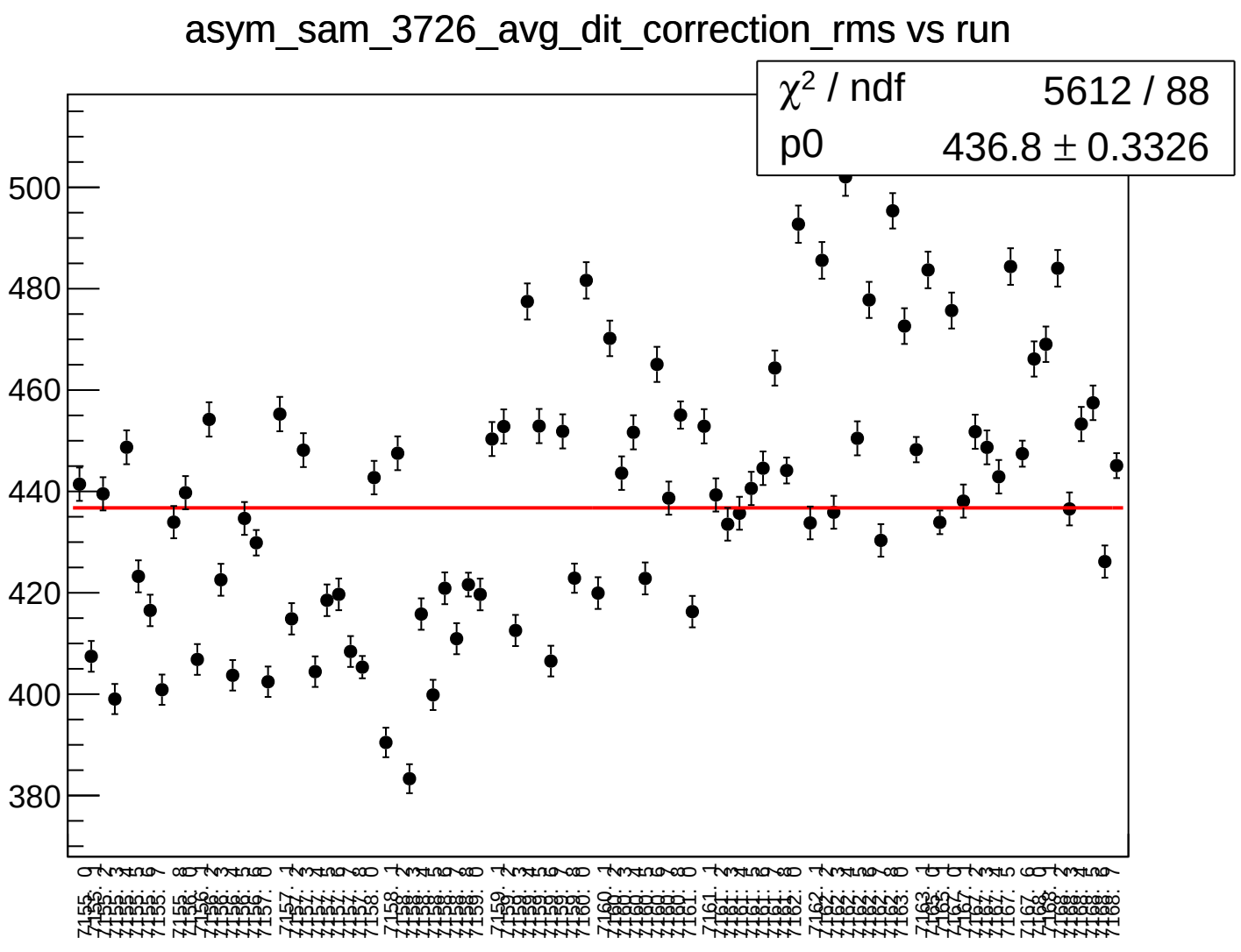

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 9381 / 88
p0 430 ± 0.3278
550
500
450
400
350

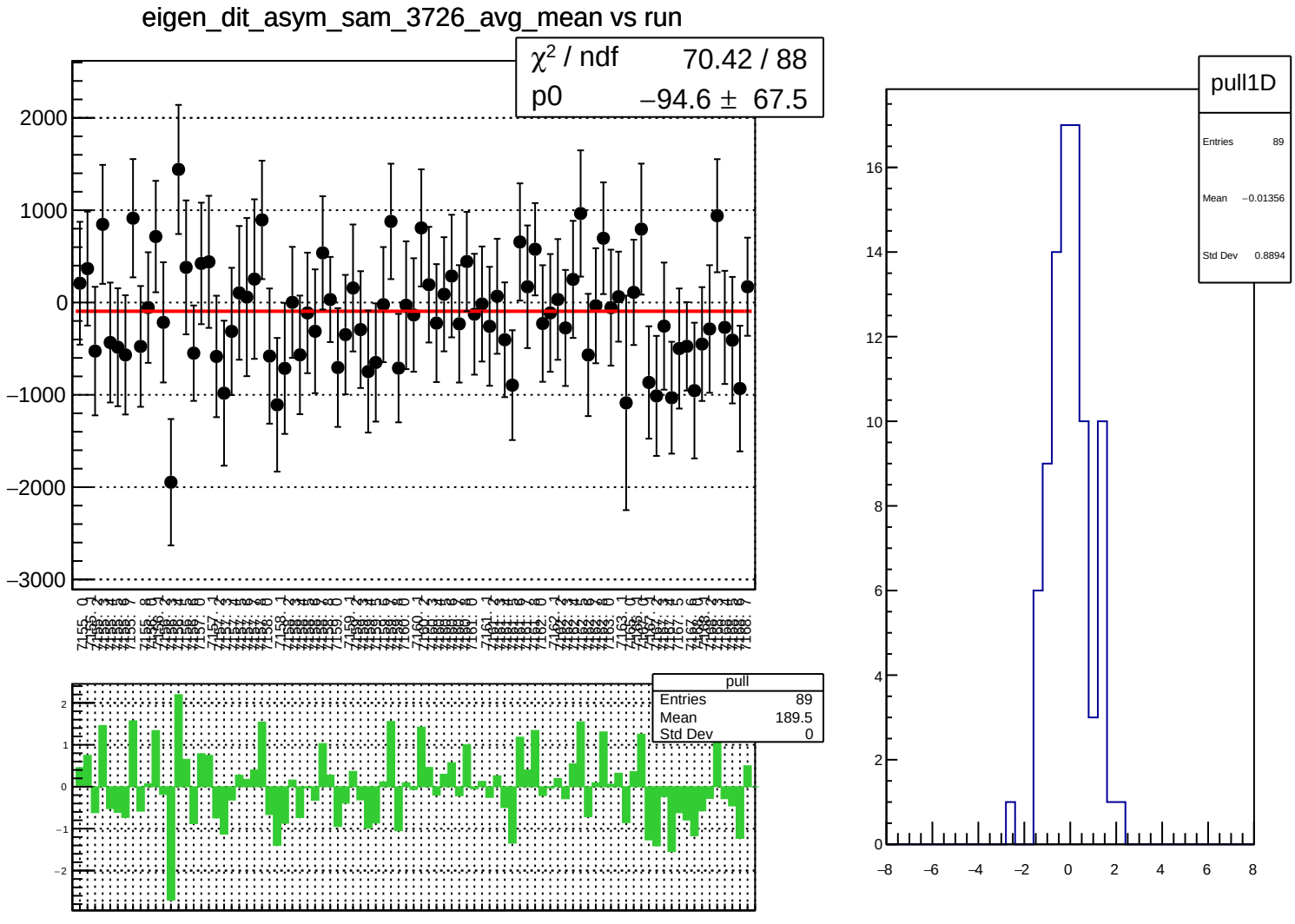

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 70.42 / 88
p0 −94.61 ± 67.5
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 189.5
Std Dev 0
2
1
0
−1
−2

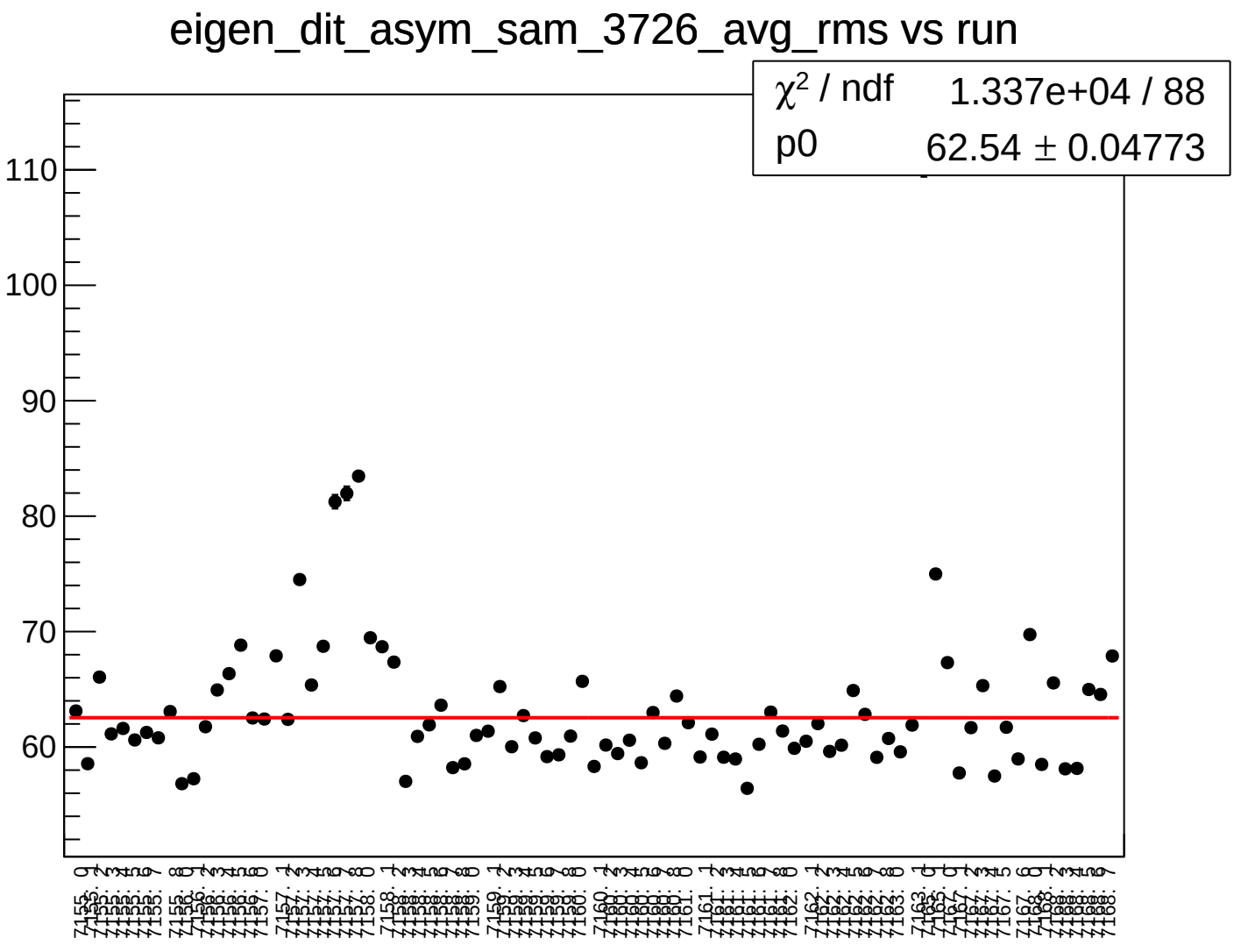

pull1D
Entries 89
Mean −0.01356
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

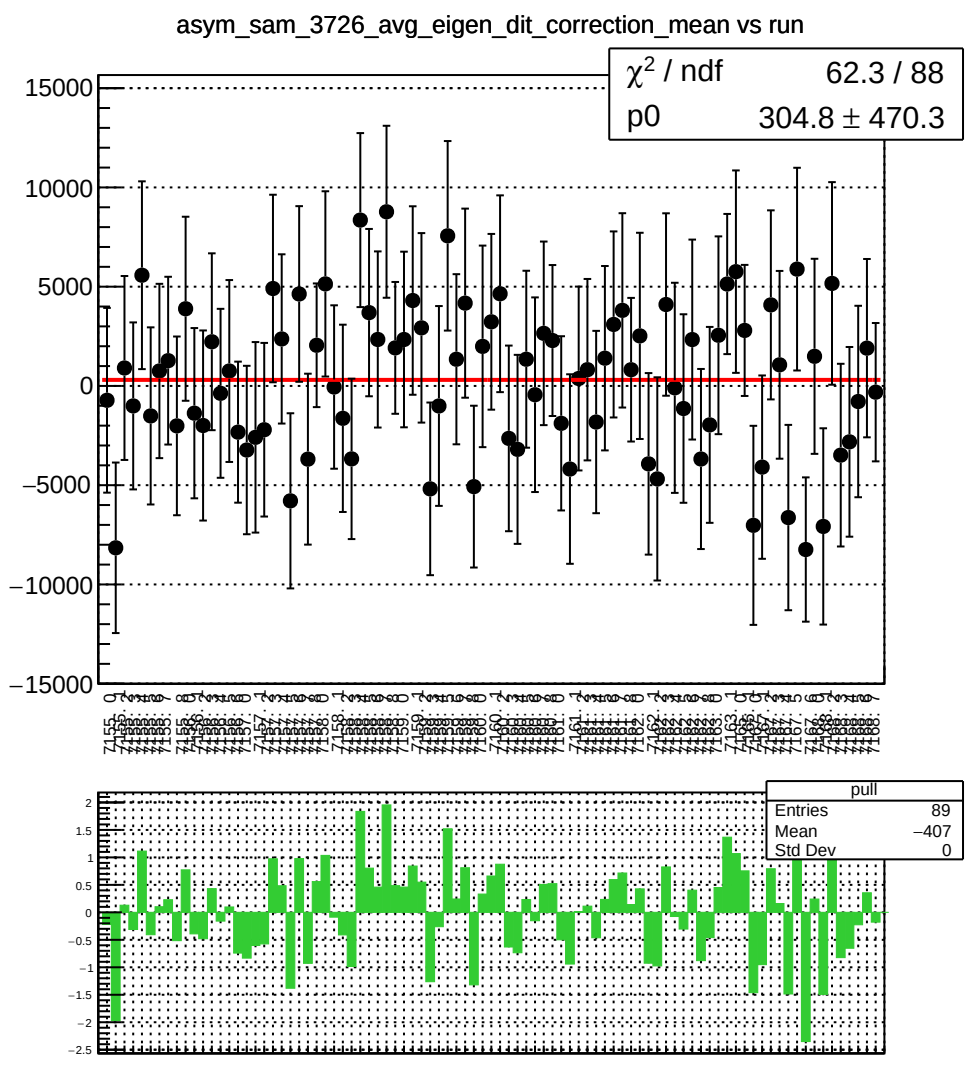

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 1.337e+04 / 88
p0 62.54 ± 0.04773
110
100
90
80
70
60

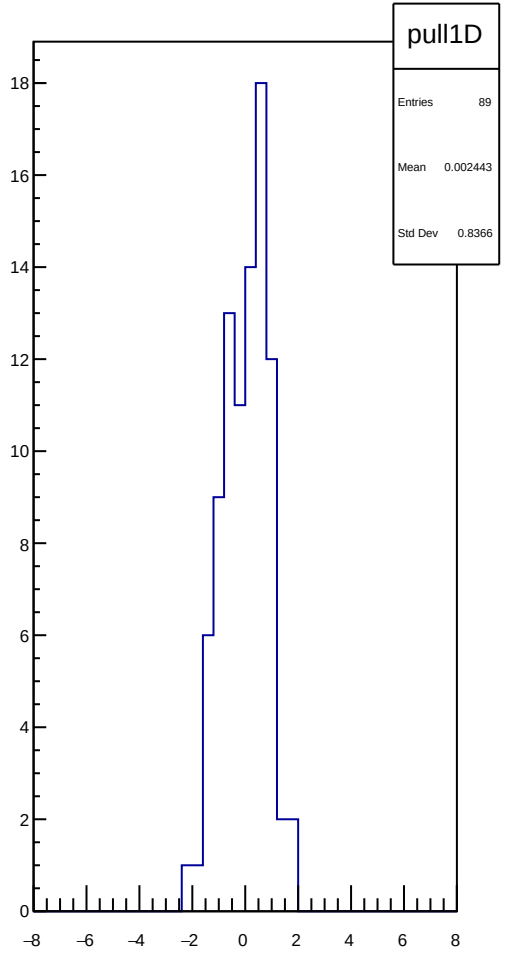

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 62.3 / 88
p0 304.8 ± 470.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −407
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 89
Mean 0.002443
Std Dev 0.8366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

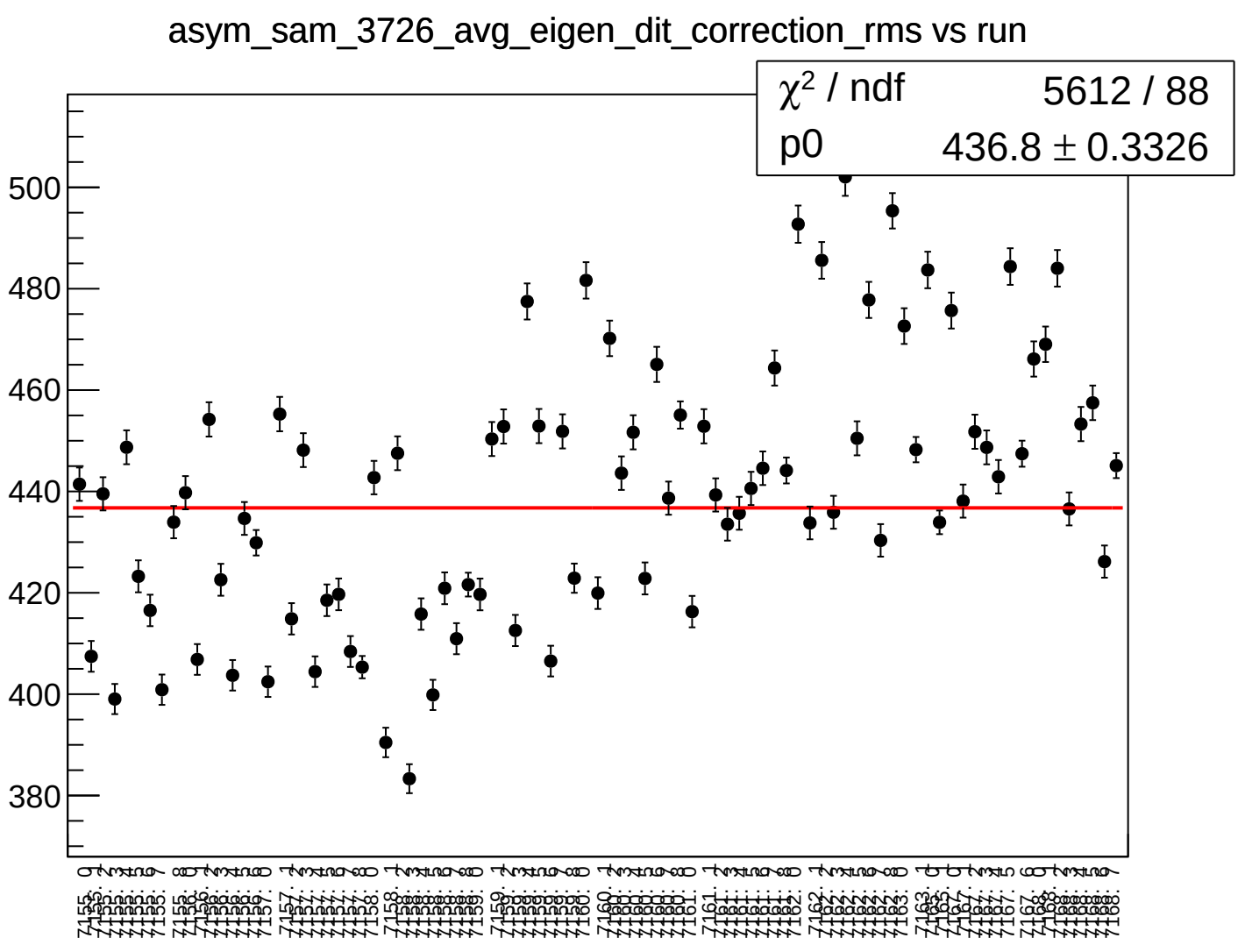

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 5612 / 88
p0 436.8 ± 0.3326
500
480
460
440
420
400
380

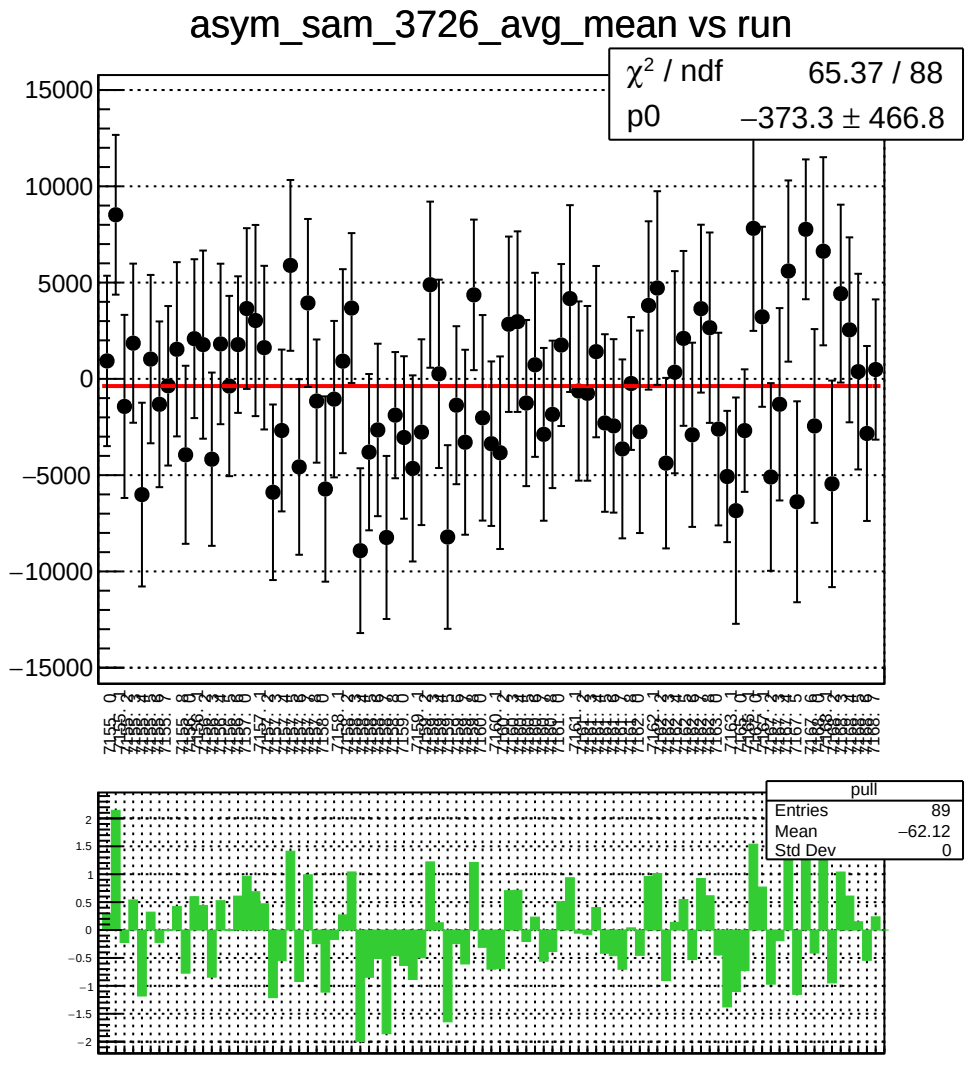

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 70.42 / 88
p0 −94.6 ± 67.5
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean 189.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01356
Std Dev 0.8894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

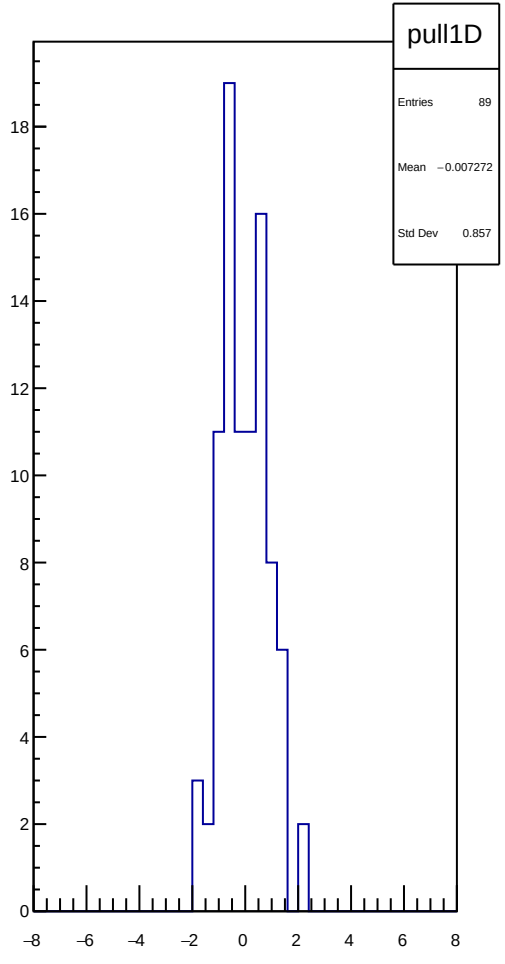

eigen_dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.337e+04 / 88
p0 62.54 ± 0.04773
110
100
90
80
70
60

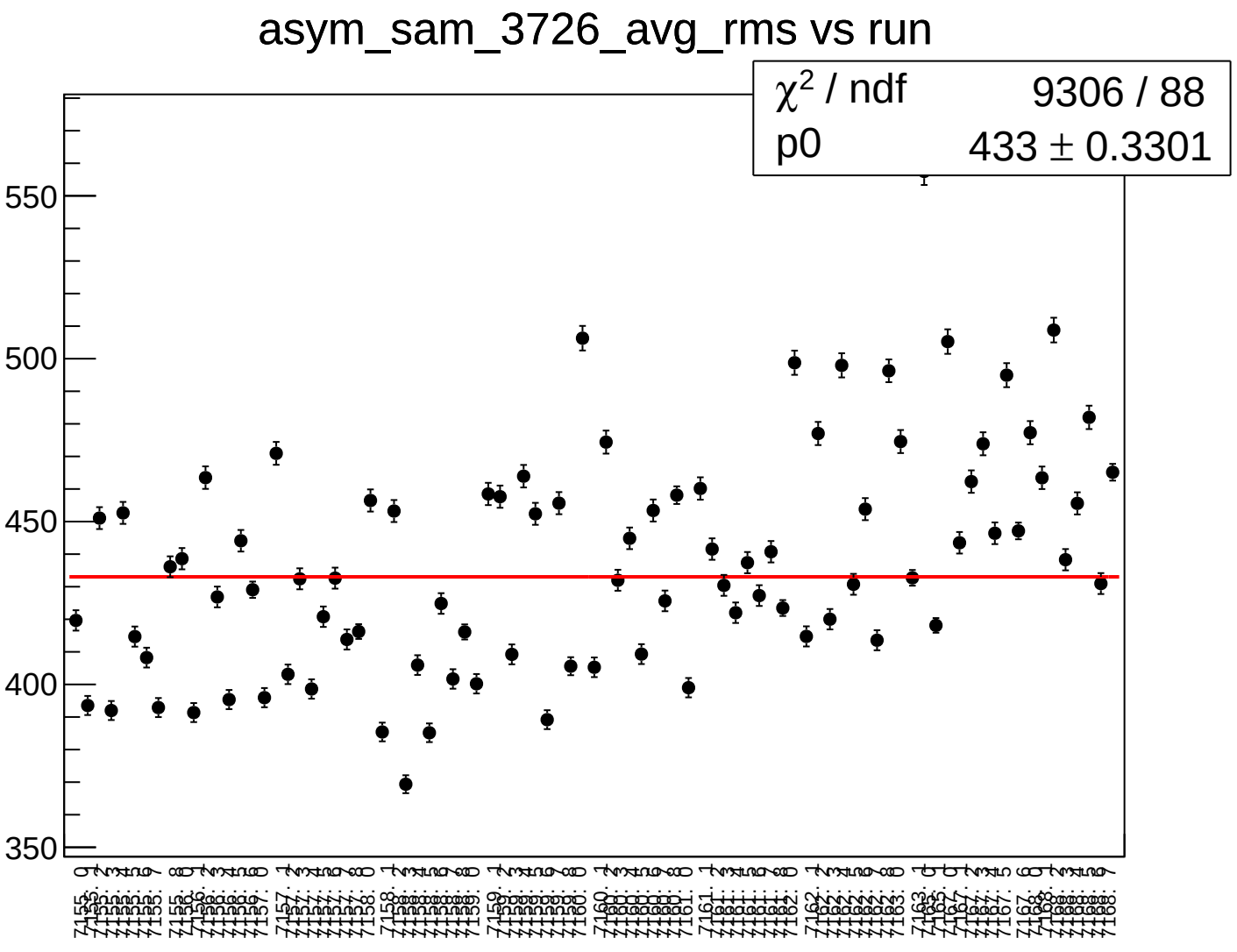

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 62.3 / 88
p0 304.8 ± 470.3
pull
Entries 89
Mean −407
Std Dev 0

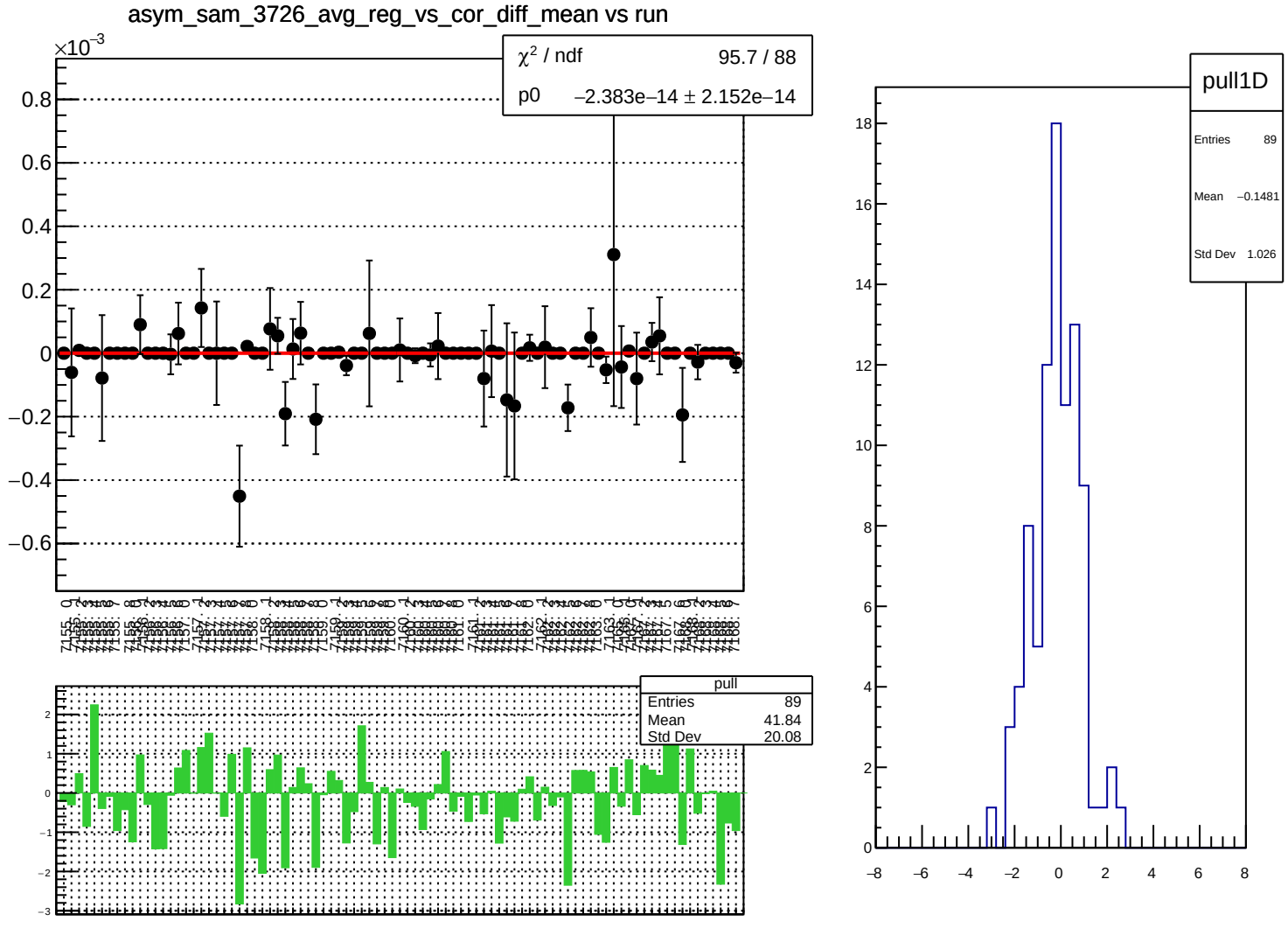

pull1D
Entries 89
Mean 0.002443
Std Dev 0.8366

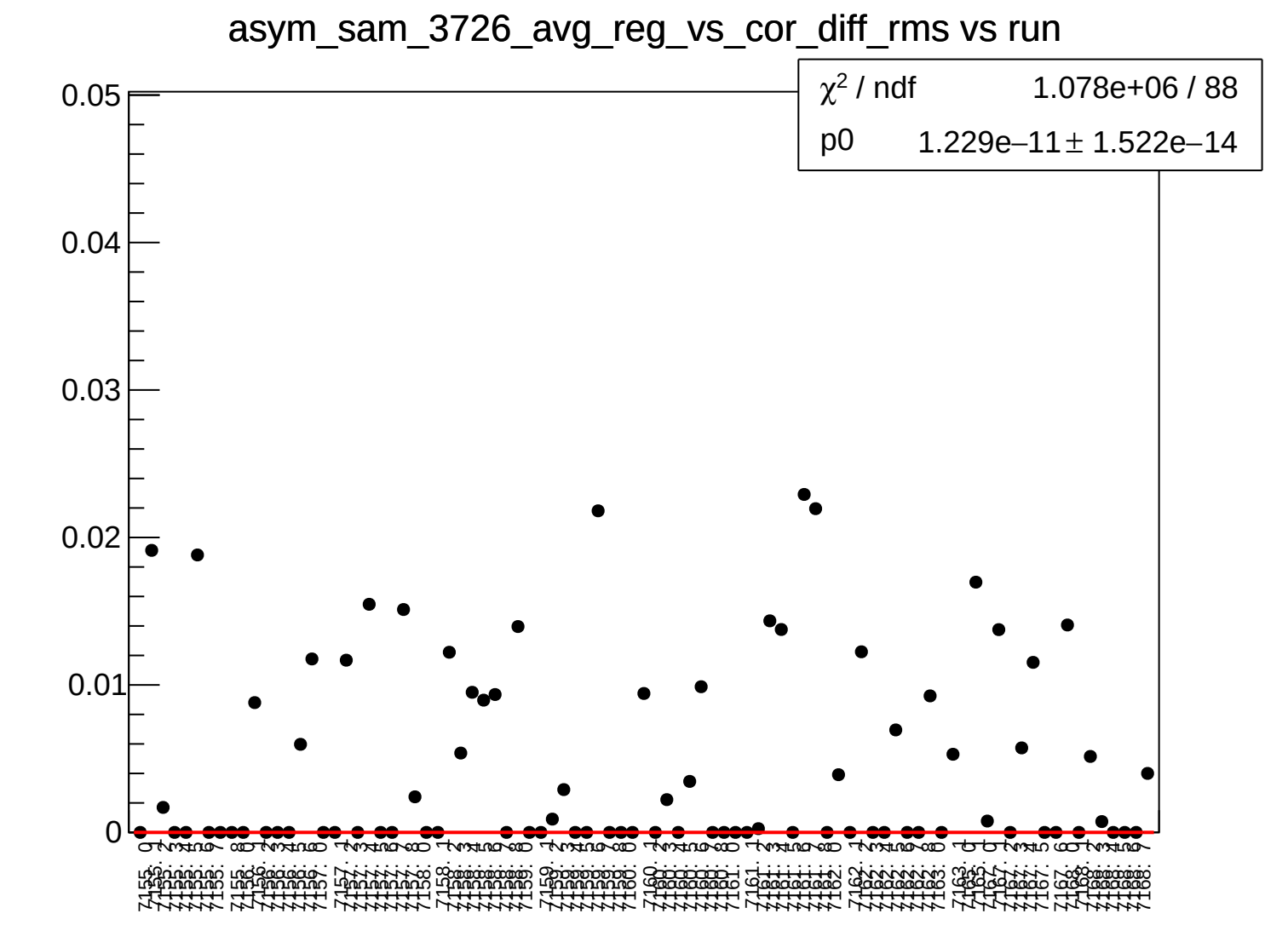

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 5612 / 88
p0 436.8 ± 0.3326
500
480
460
440
420
400
380

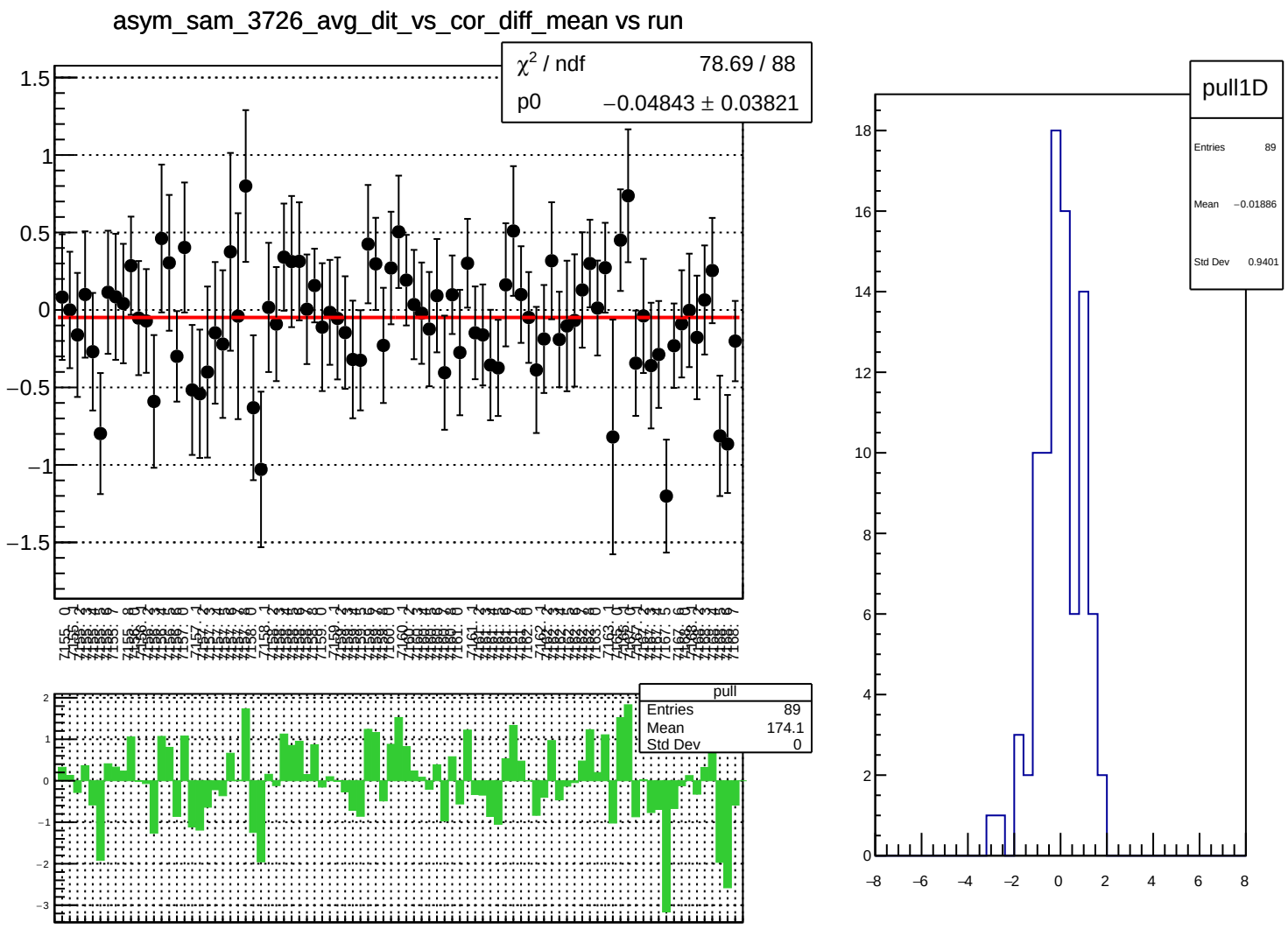

asym_sam_3726_avg_mean vs run
χ² / ndf 65.37 / 88
p0 −373.3 ± 466.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −62.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

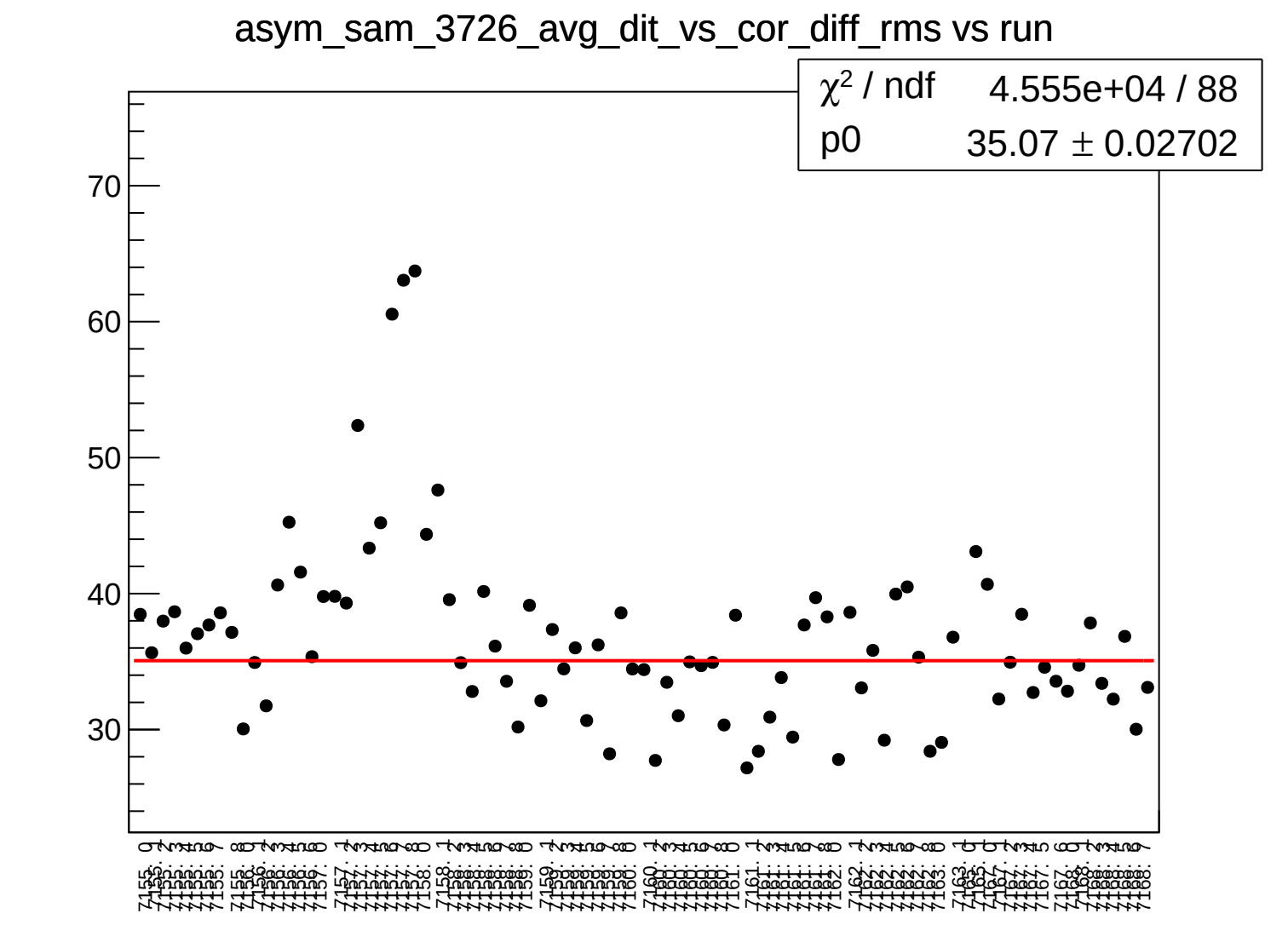

pull1D
Entries 89
Mean −0.007272
Std Dev 0.857
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

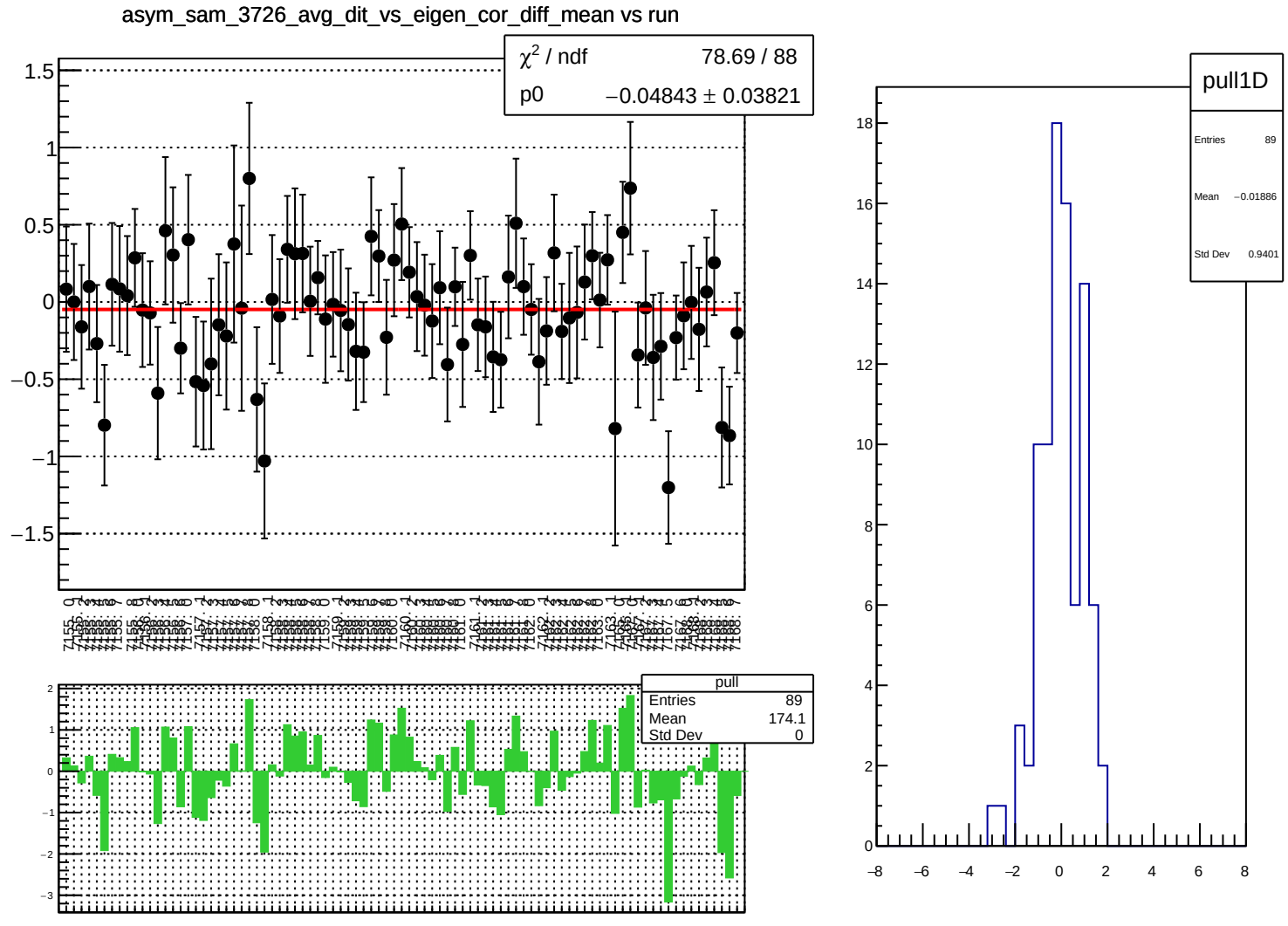

asym_sam_3726_avg_rms vs run
χ^2 / ndf 9306 / 88
p0 433 ± 0.3301
550
500
450
400
350

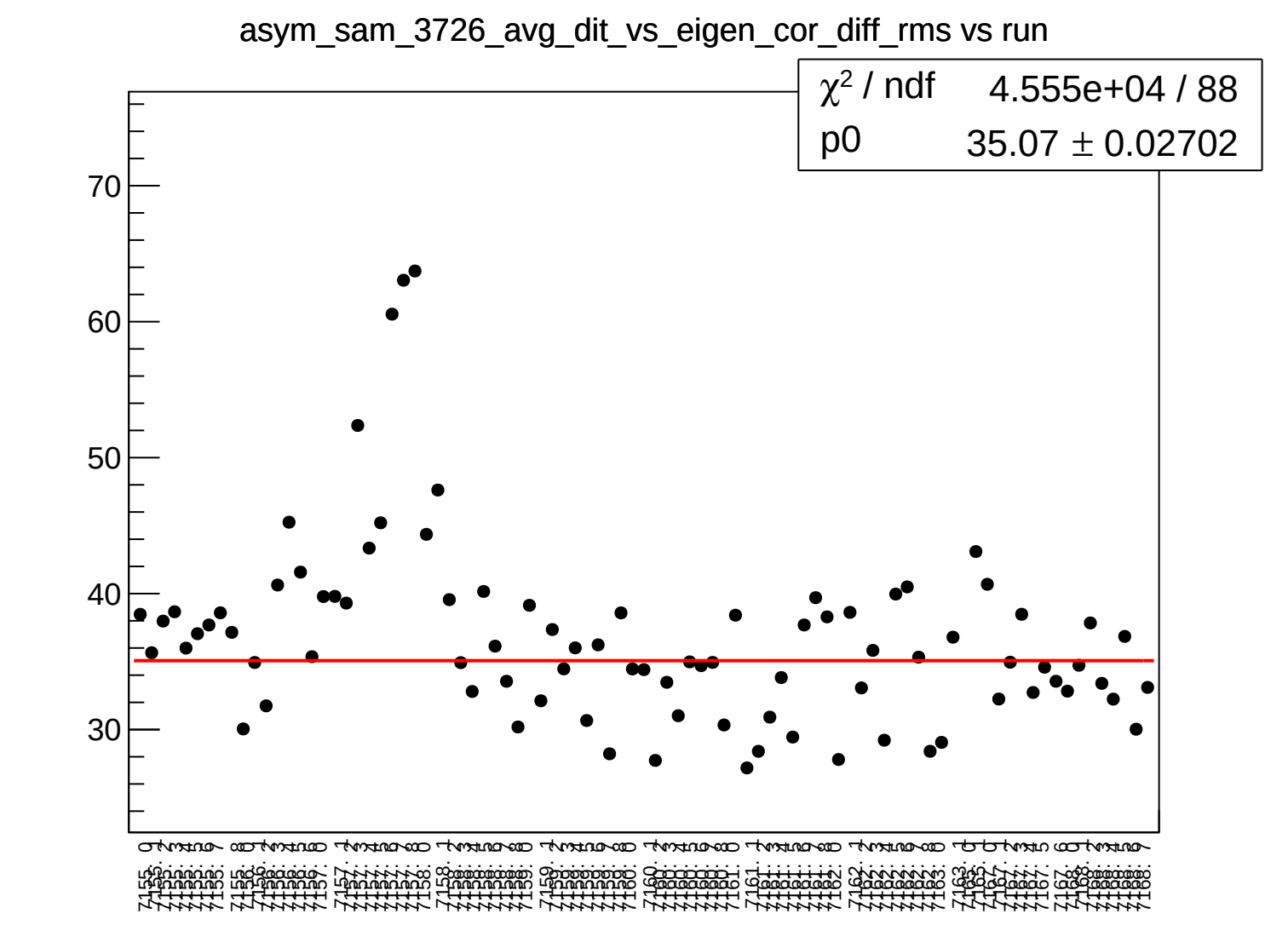

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.7 / 88
p0 −2.383e−14 ± 2.152e−14
pull
Entries 89
Mean 41.84
Std Dev 20.08
pull1D
Entries 89
Mean −0.1481
Std Dev 1.026

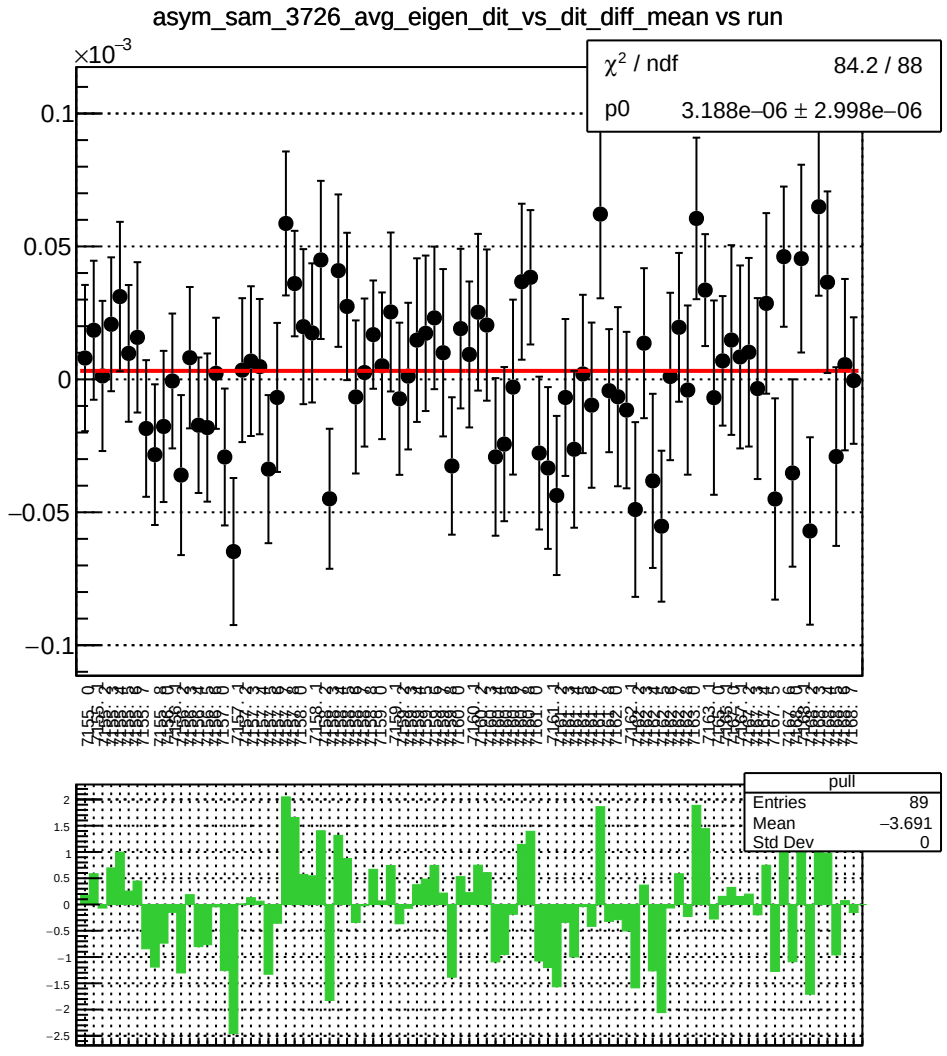

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.078e+06 / 88
p0 1.229e−11 ± 1.522e−14
0.05
0.04
0.03
0.02
0.01
0

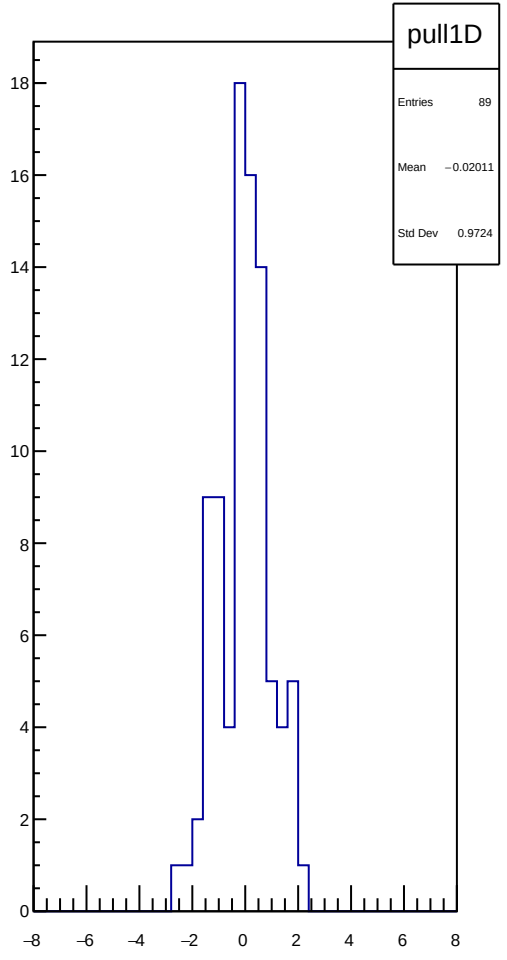

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.69 / 88
p0 −0.04843 ± 0.03821
pull
Entries 89
Mean 174.1
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 0.9401

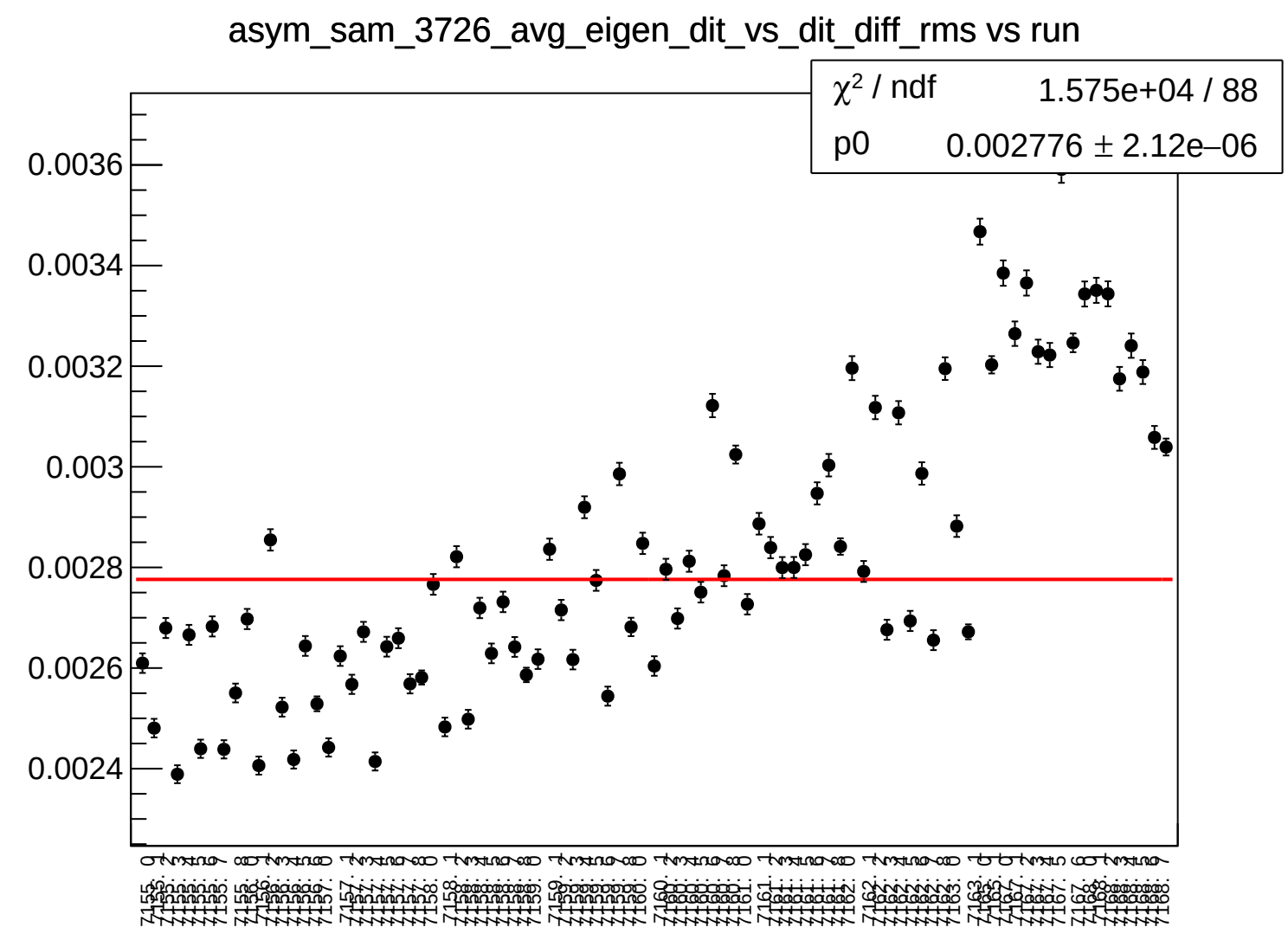

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.555e+04 / 88
p0 35.07 ± 0.02702
70
60
50
40
30

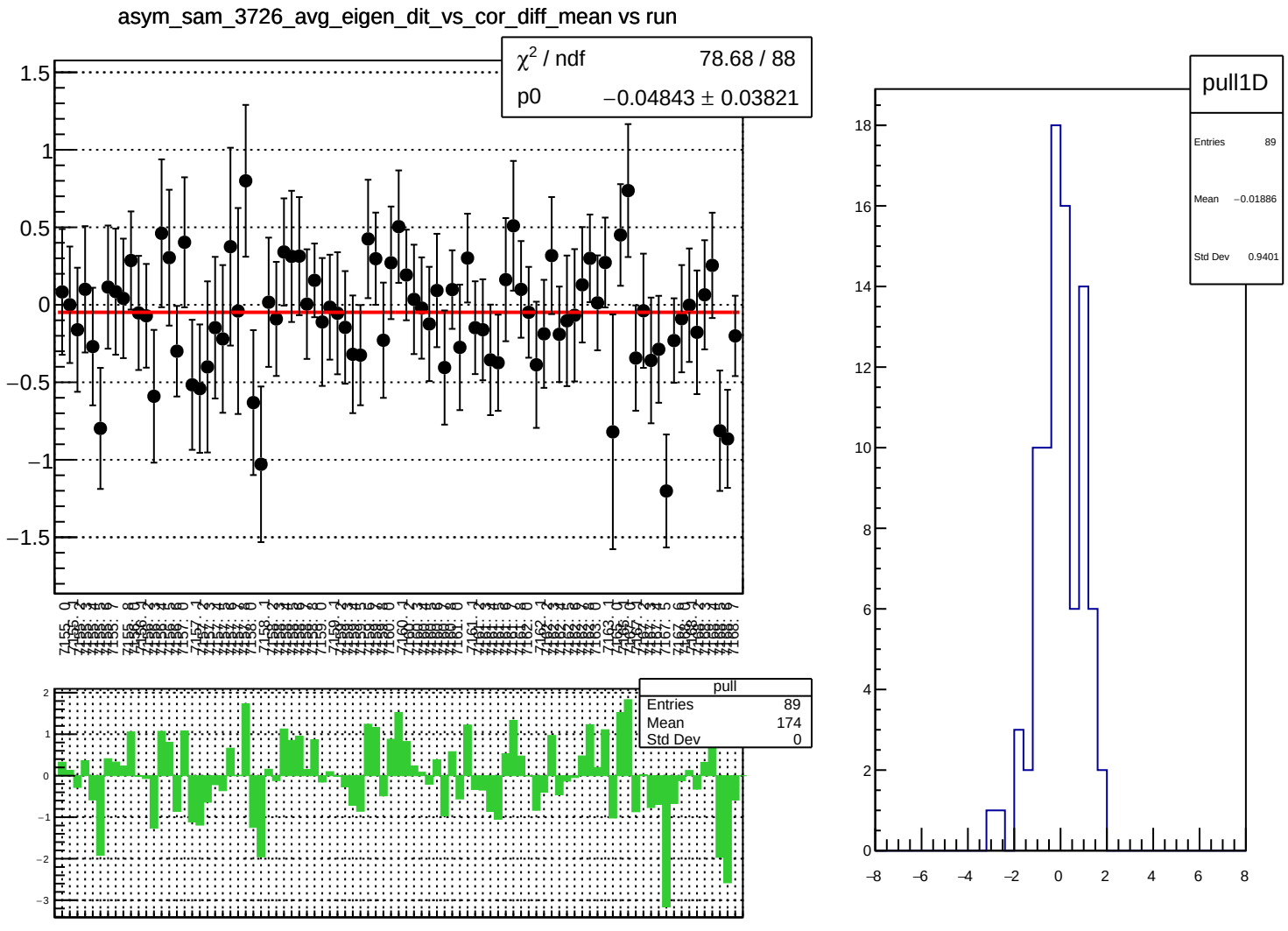

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.69 / 88
p0 −0.04843 ± 0.03821
pull
Entries 89
Mean 174.1
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 0.9401

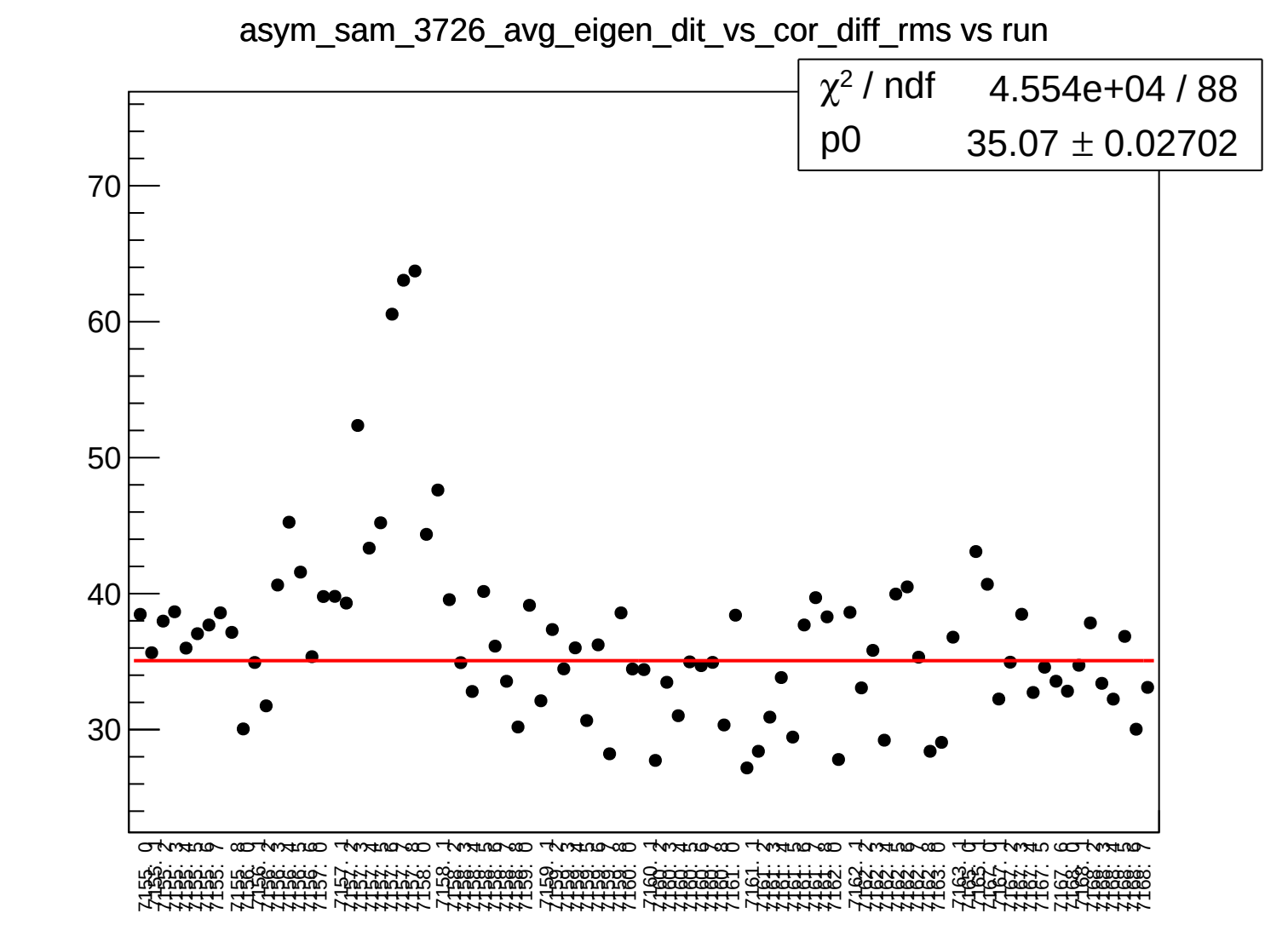

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 4.555e+04 / 88
p0 35.07 ± 0.02702
70
60
50
40
30

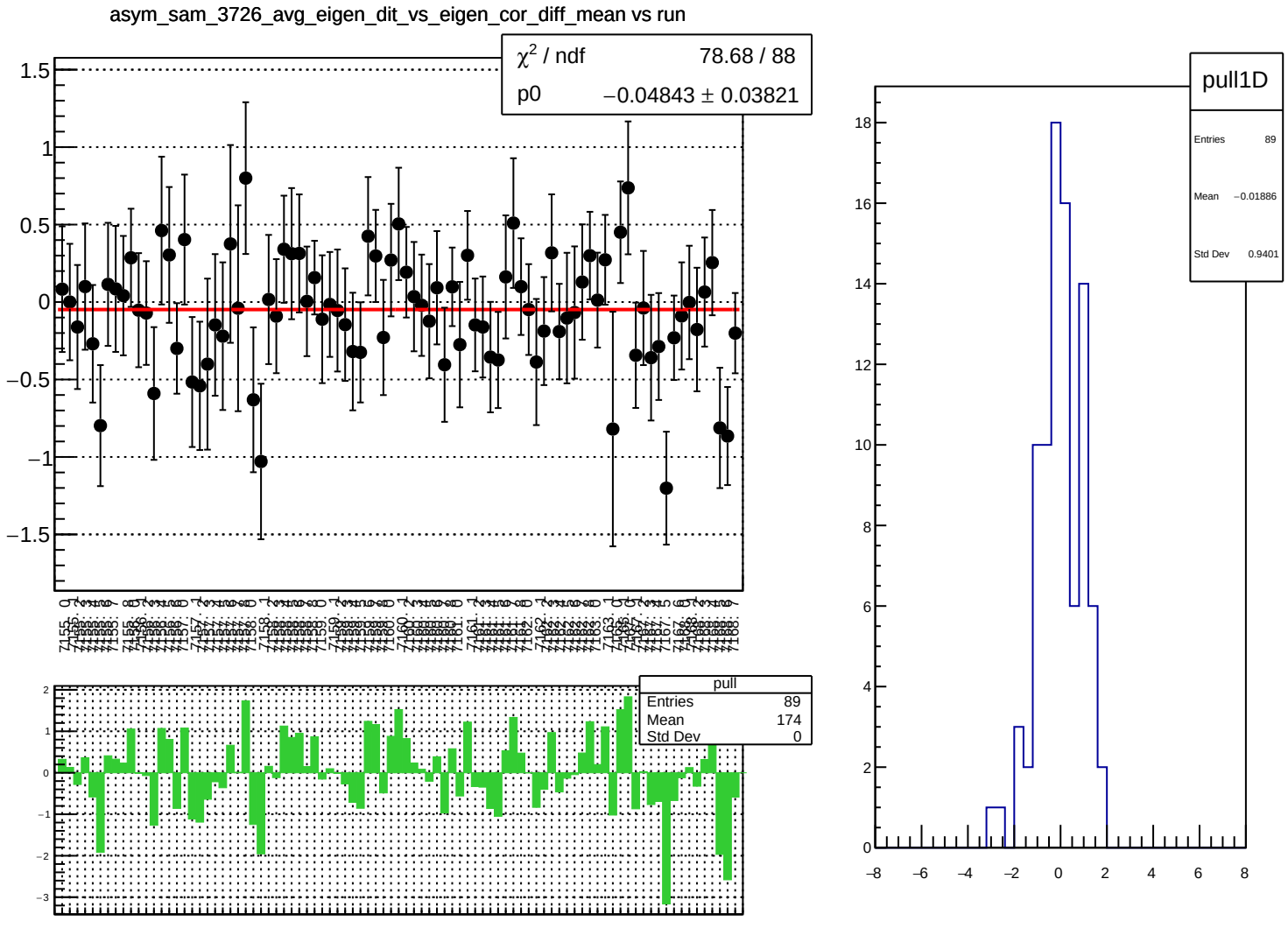

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.2 / 88
p0 3.188e−06 ± 2.998e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −3.691
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

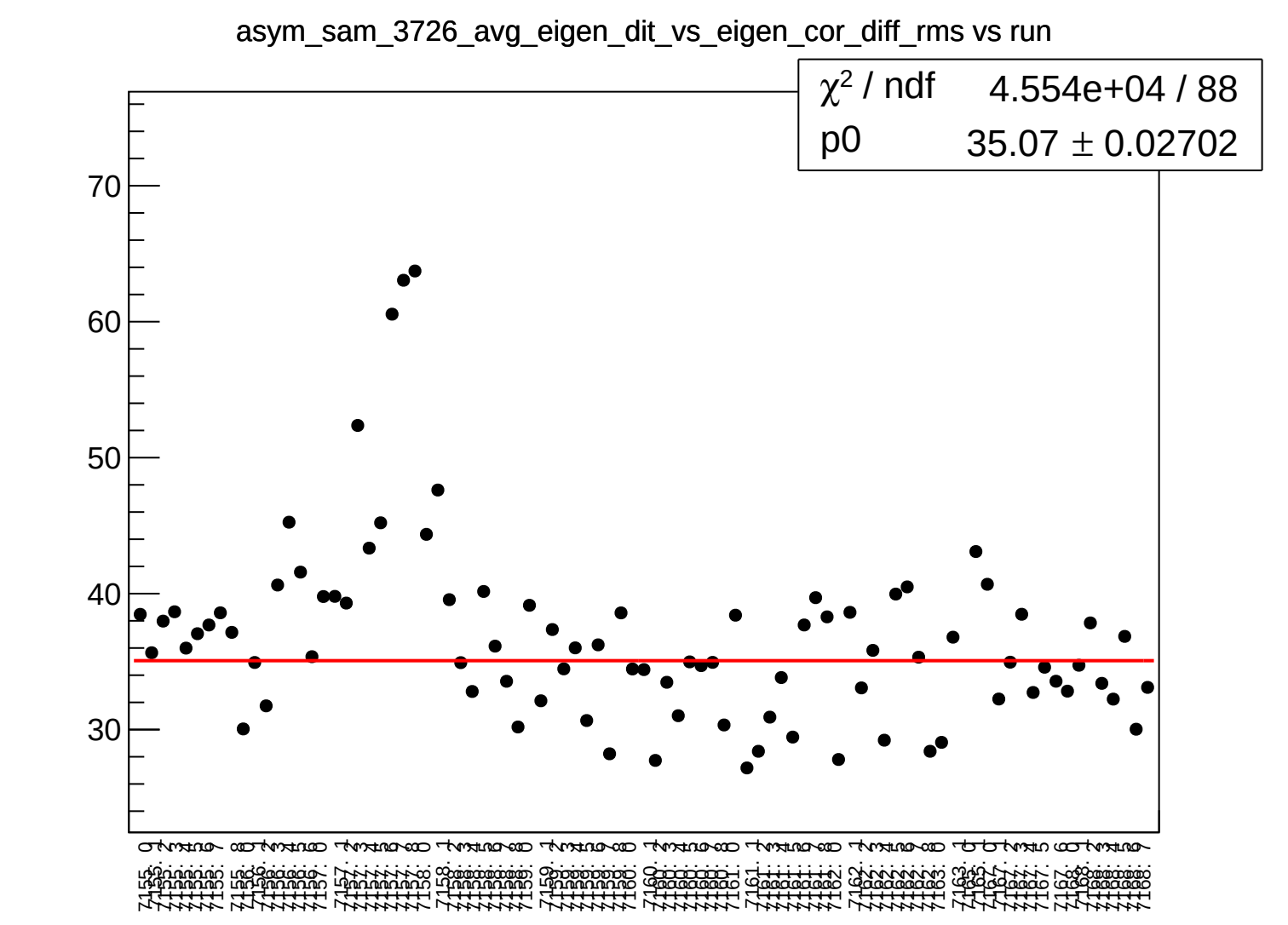

pull1D
Entries 89
Mean −0.02011
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

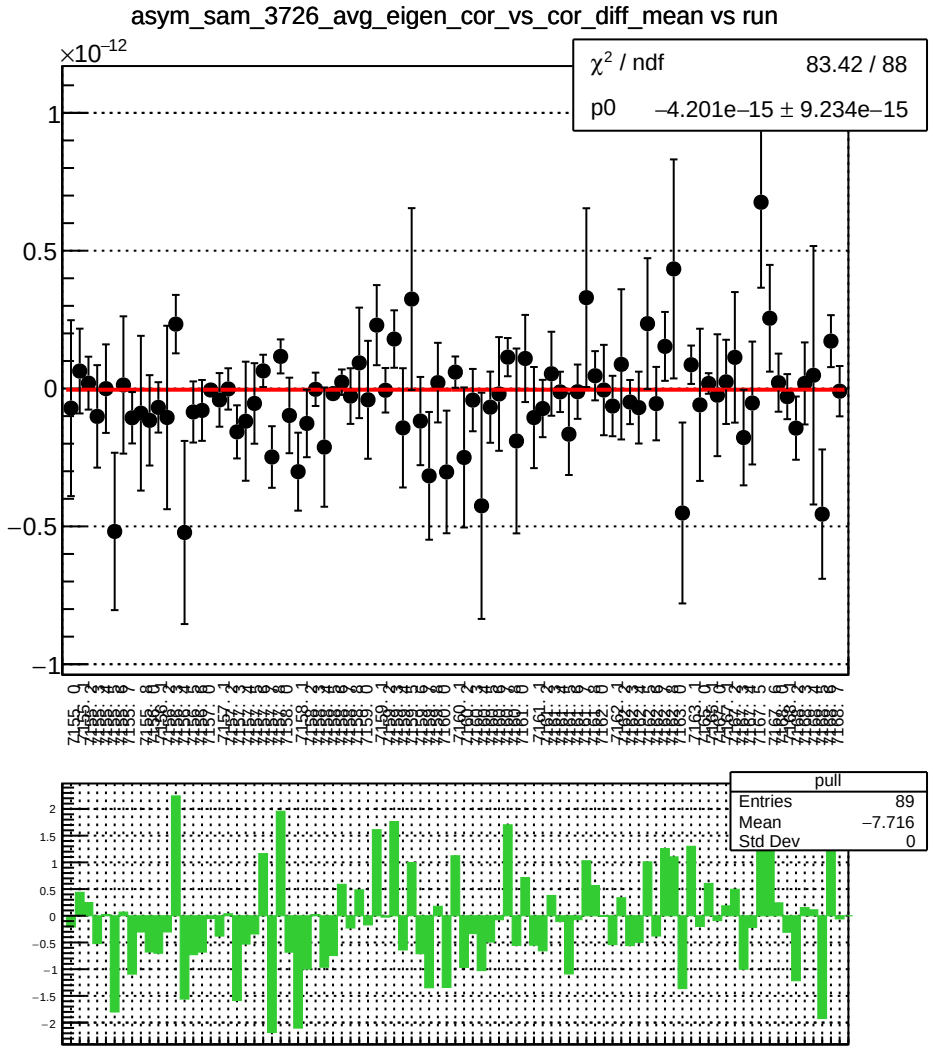

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.575e+04 / 88
p0 0.002776 ± 2.12e–06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

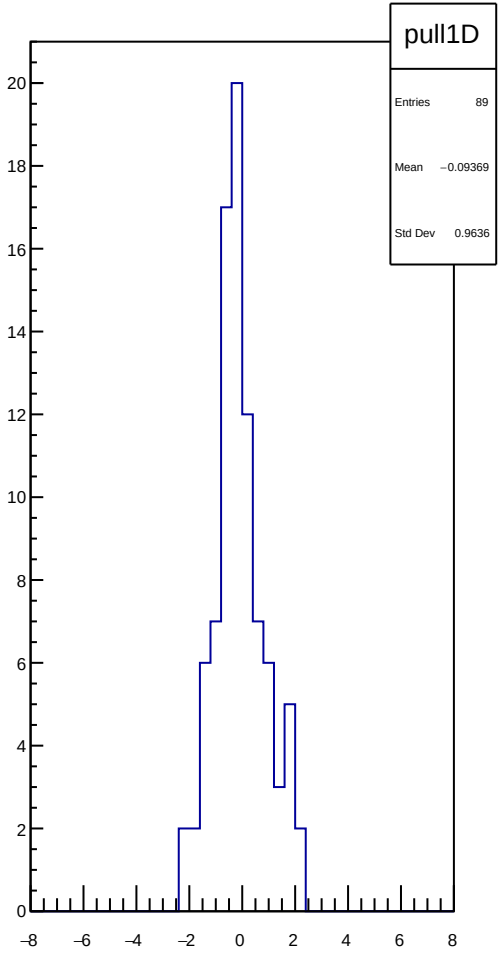

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.68 / 88
p0 −0.04843 ± 0.03821
pull
Entries 89
Mean 174
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 0.9401

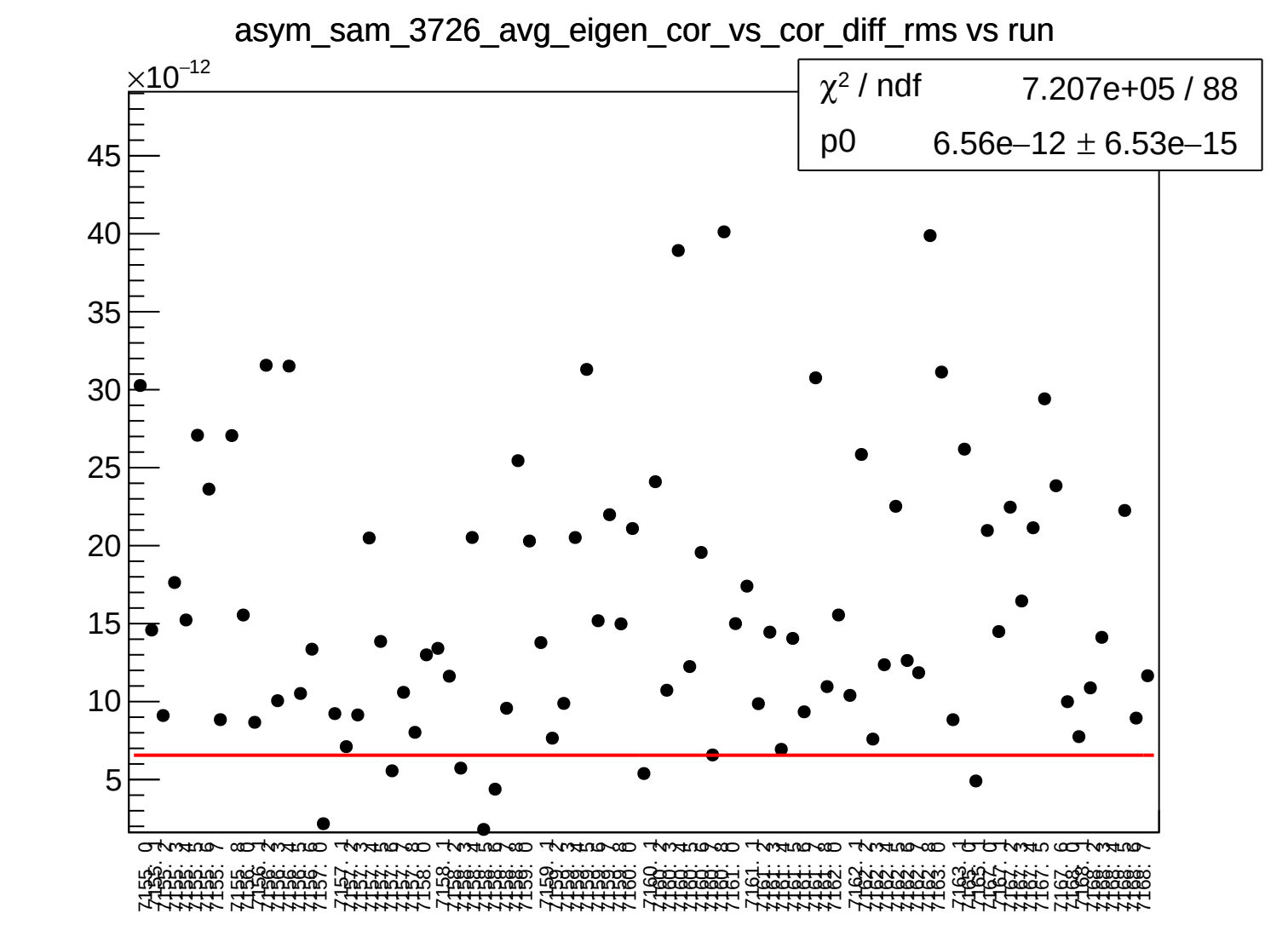

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.554e+04 / 88
p0 35.07 ± 0.02702
70
60
50
40
30

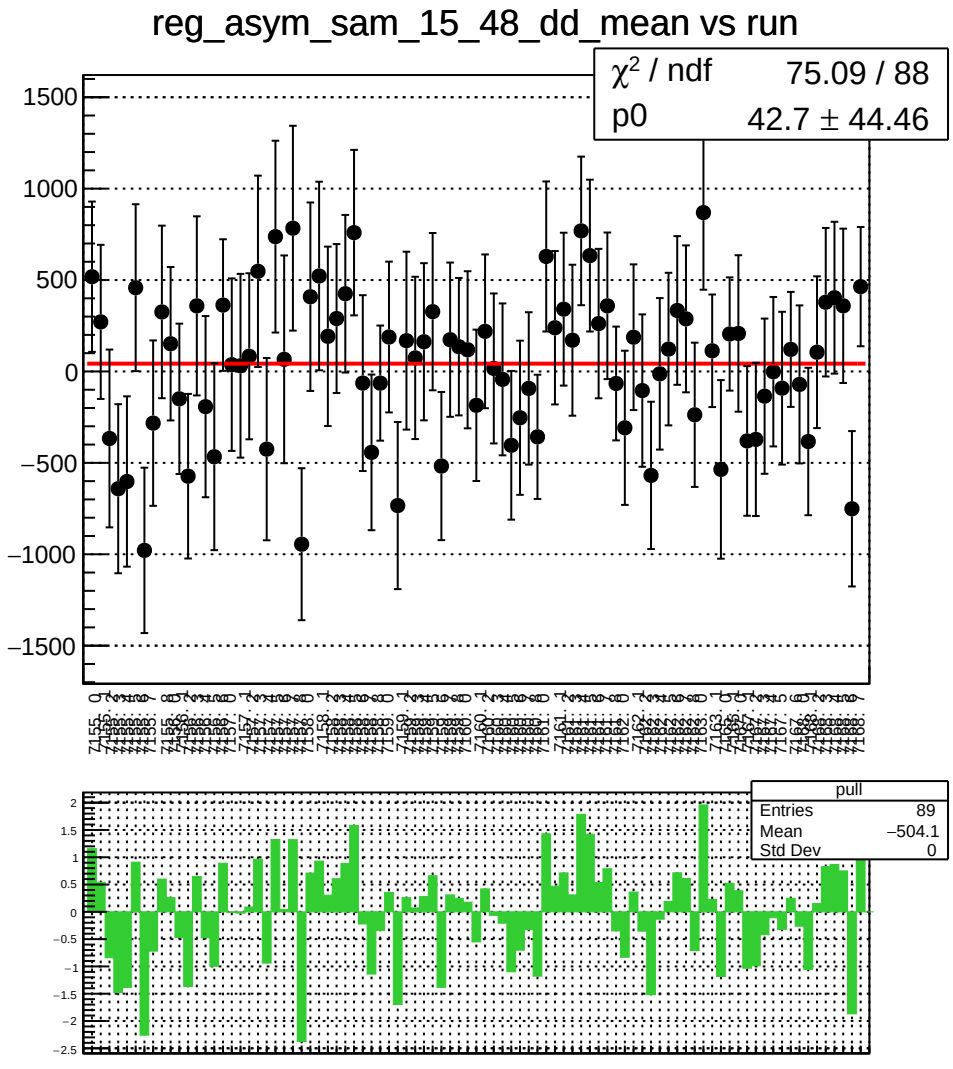

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.68 / 88
p0 −0.04843 ± 0.03821
pull
Entries 89
Mean 174
Std Dev 0
pull1D
Entries 89
Mean −0.01886
Std Dev 0.9401

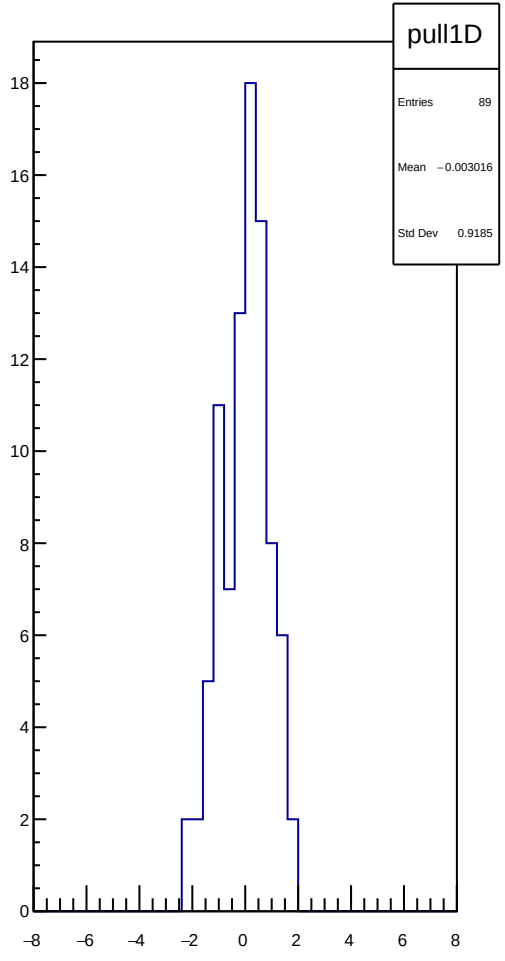

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.554e+04 / 88
p0 35.07 ± 0.02702
70
60
50
40
30

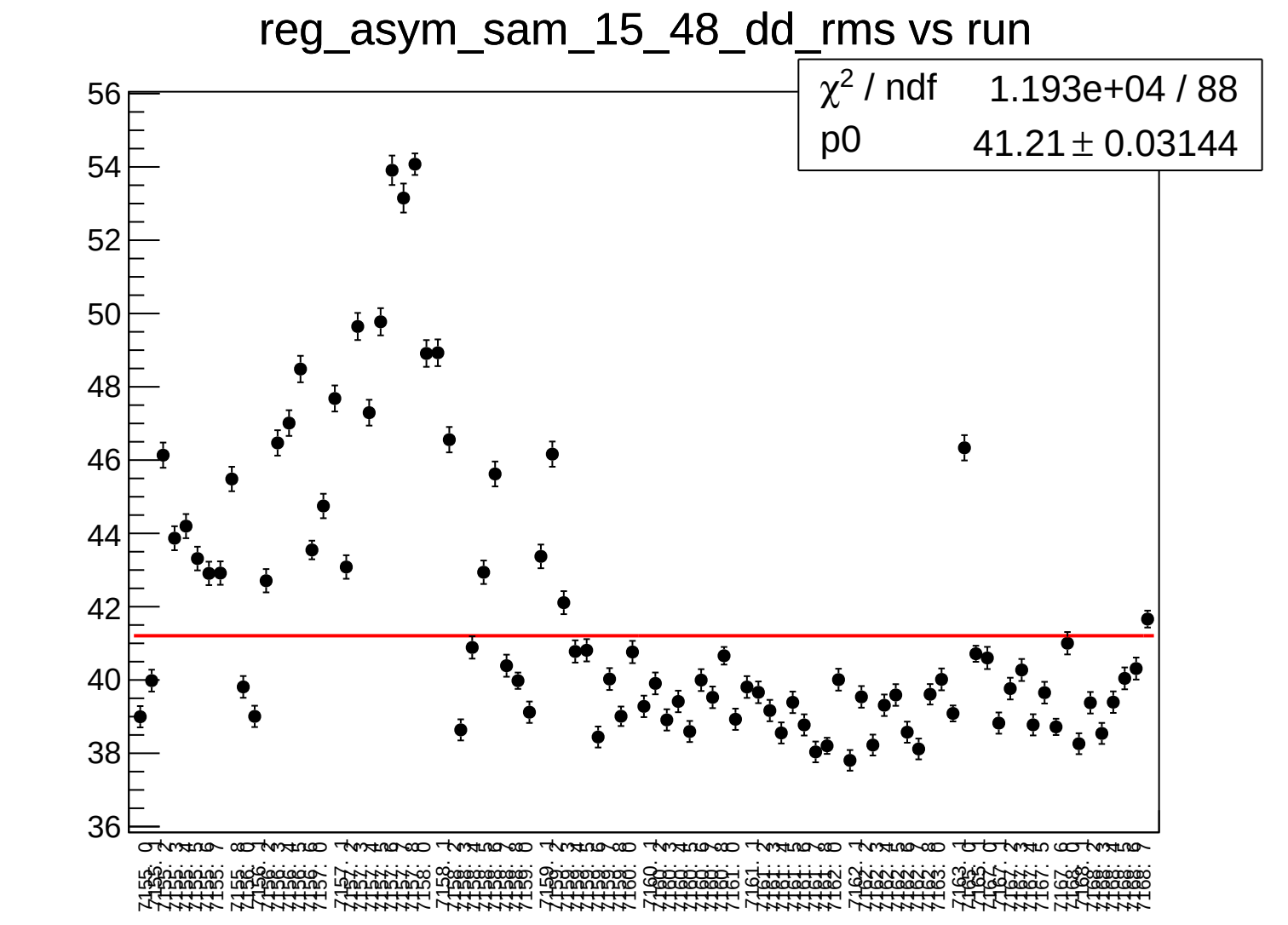

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.42 / 88
p0 −4.201e−15 ± 9.234e−15
pull
Entries 89
Mean −7.716
Std Dev 0

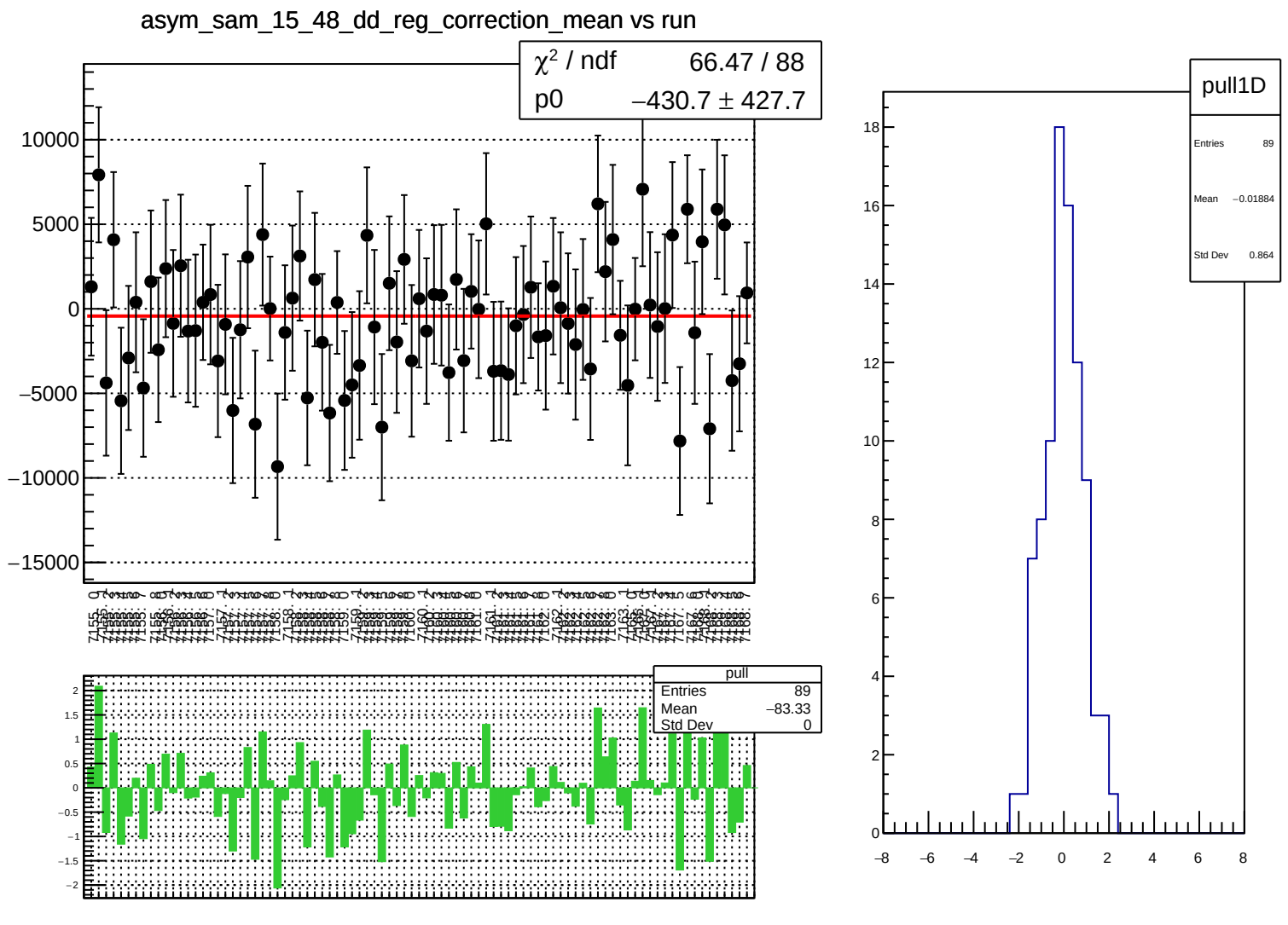

pull1D
Entries 89
Mean −0.09369
Std Dev 0.9636

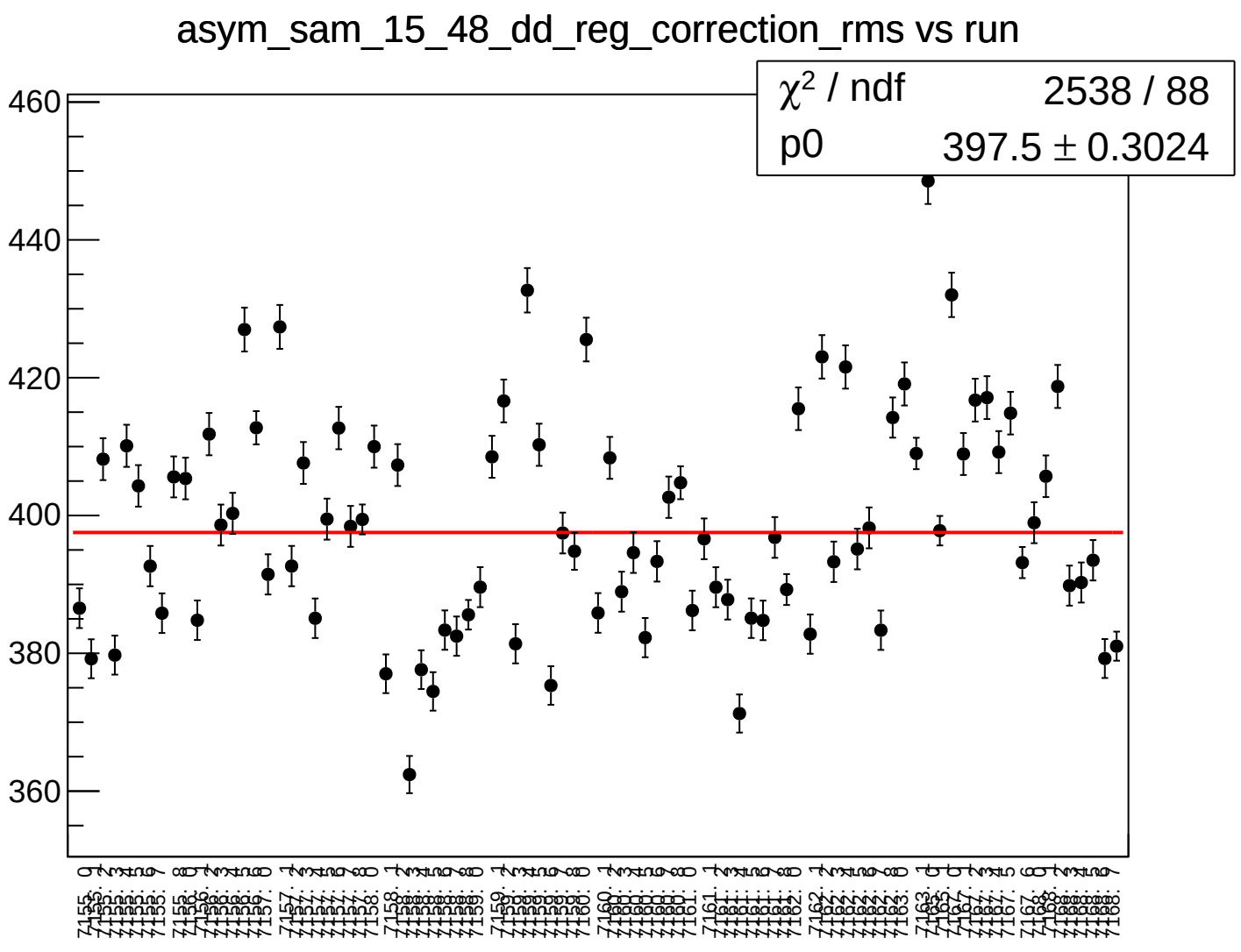

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 7.207e+05 / 88
p0 6.56e−12 ± 6.53e−15
45
40
35
30
25
20
15
10
5

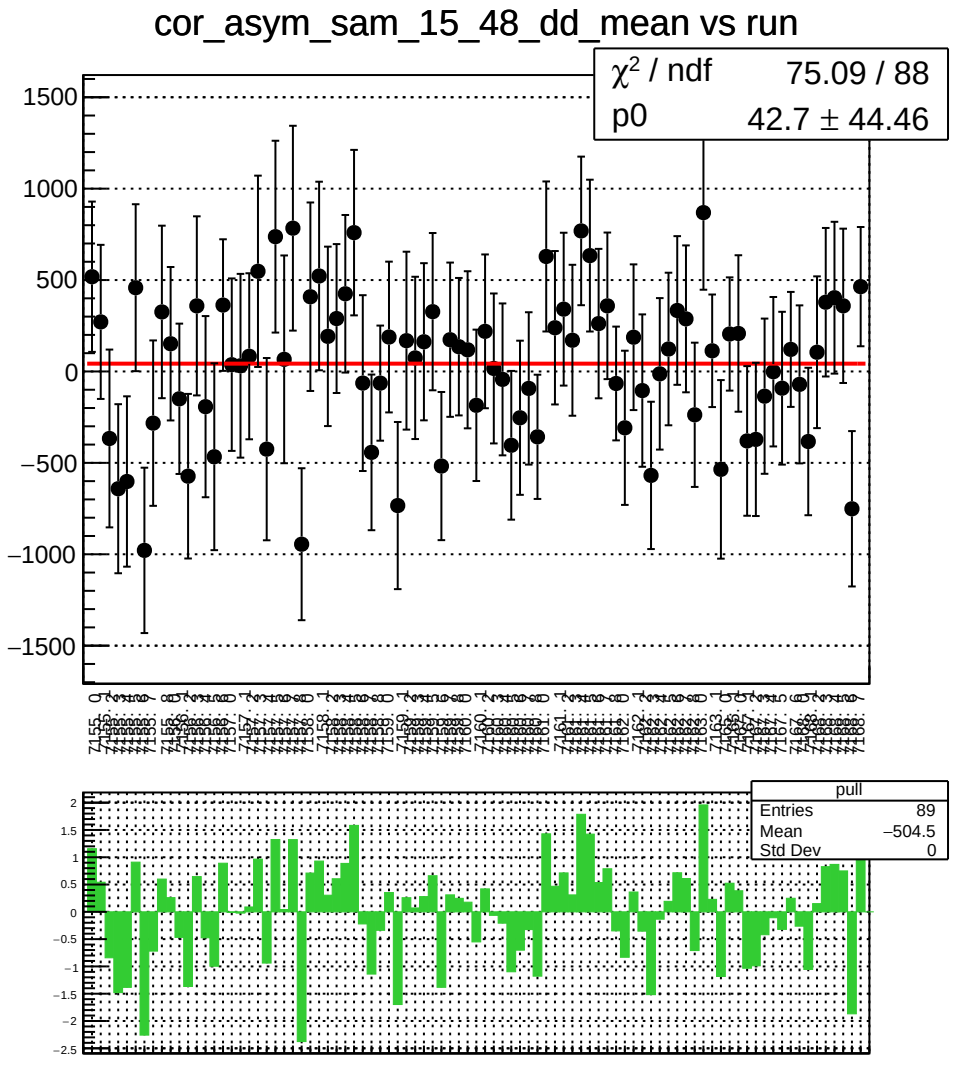

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.09 / 88
p0 42.7 ± 44.46
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −504.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

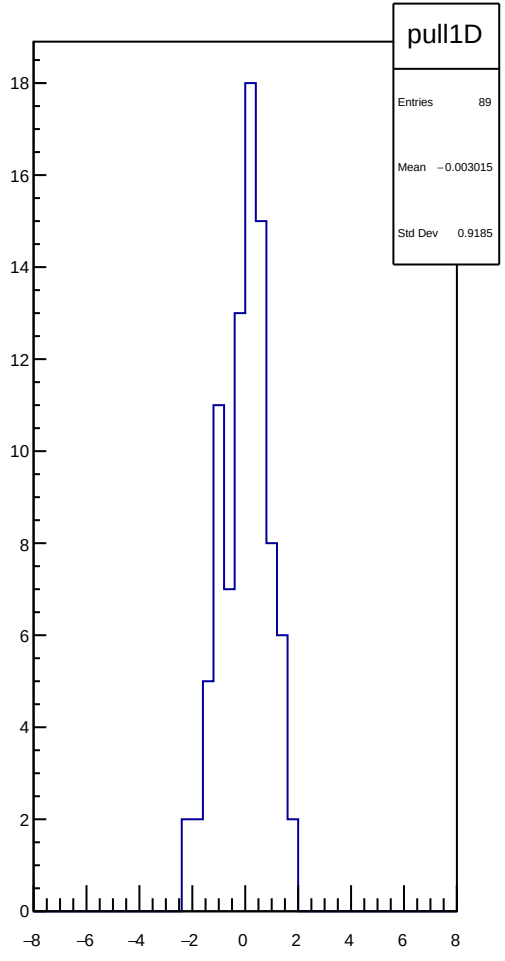

pull1D
Entries 89
Mean −0.003016
Std Dev 0.9185
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

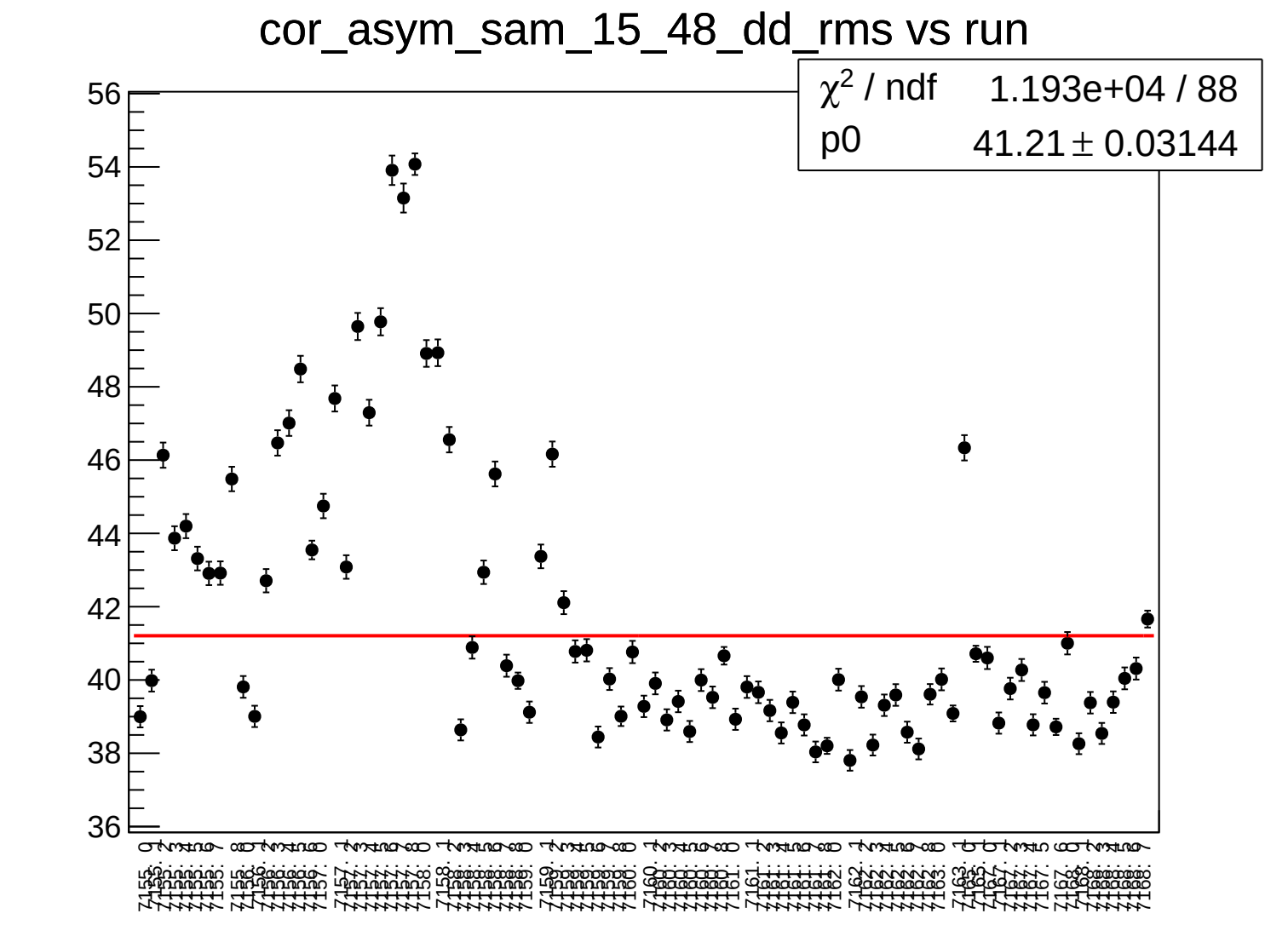

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.193e+04 / 88
p0 41.21 ± 0.03144
56
54
52
50
48
46
44
42
40
38
36

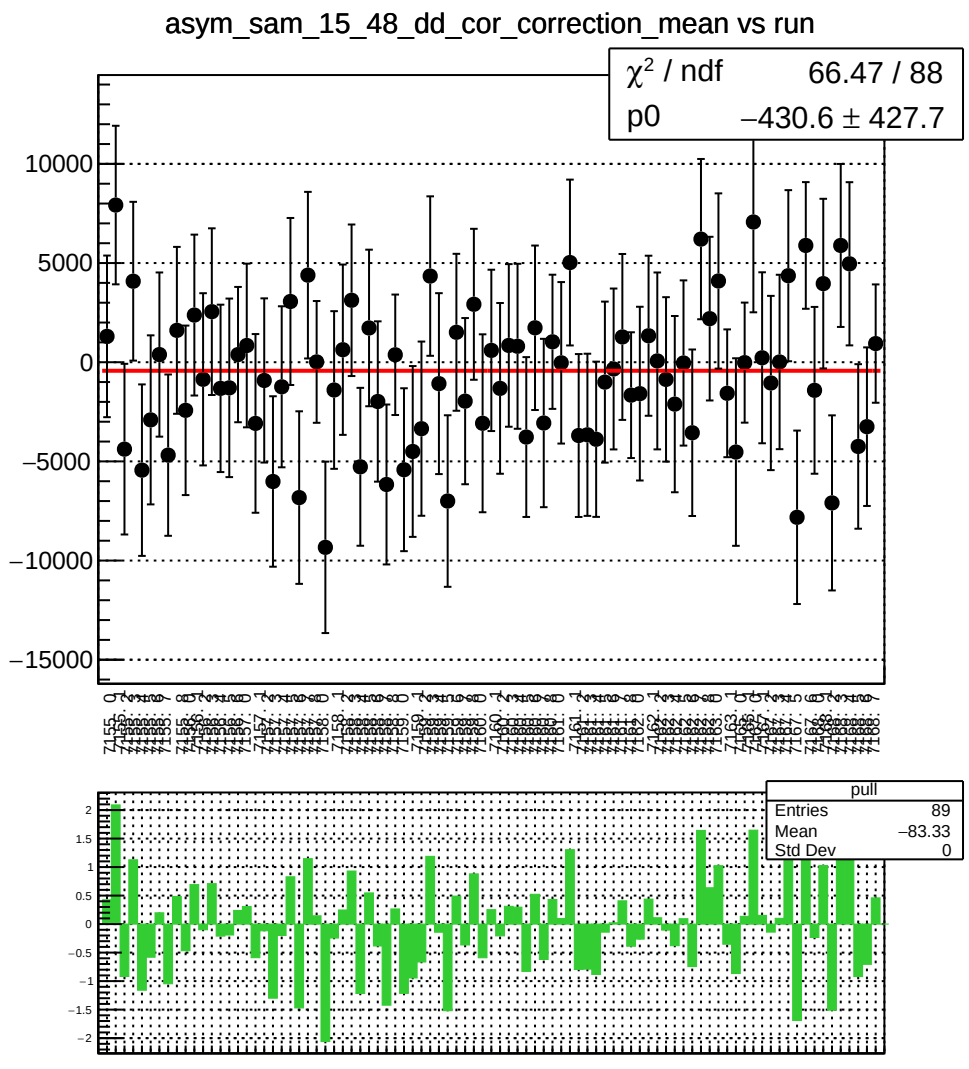

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 66.47 / 88
p0 −430.7 ± 427.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −83.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01884
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

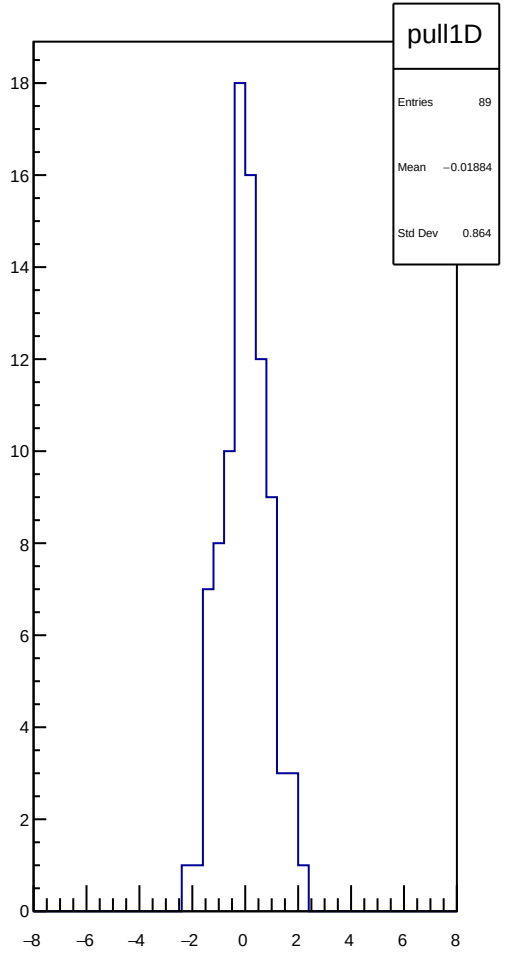

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 2538 / 88
p0 397.5 ± 0.3024
460
440
420
400
380
360


cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.09 / 88
p0 42.7 ± 44.46
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −504.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 89
Mean −0.003015
Std Dev 0.9185
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 1.193e+04 / 88
p0 41.21 ± 0.03144
56
54
52
50
48
46
44
42
40
38
36


asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 66.47 / 88
p0 −430.6 ± 427.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −83.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.01884
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
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−4
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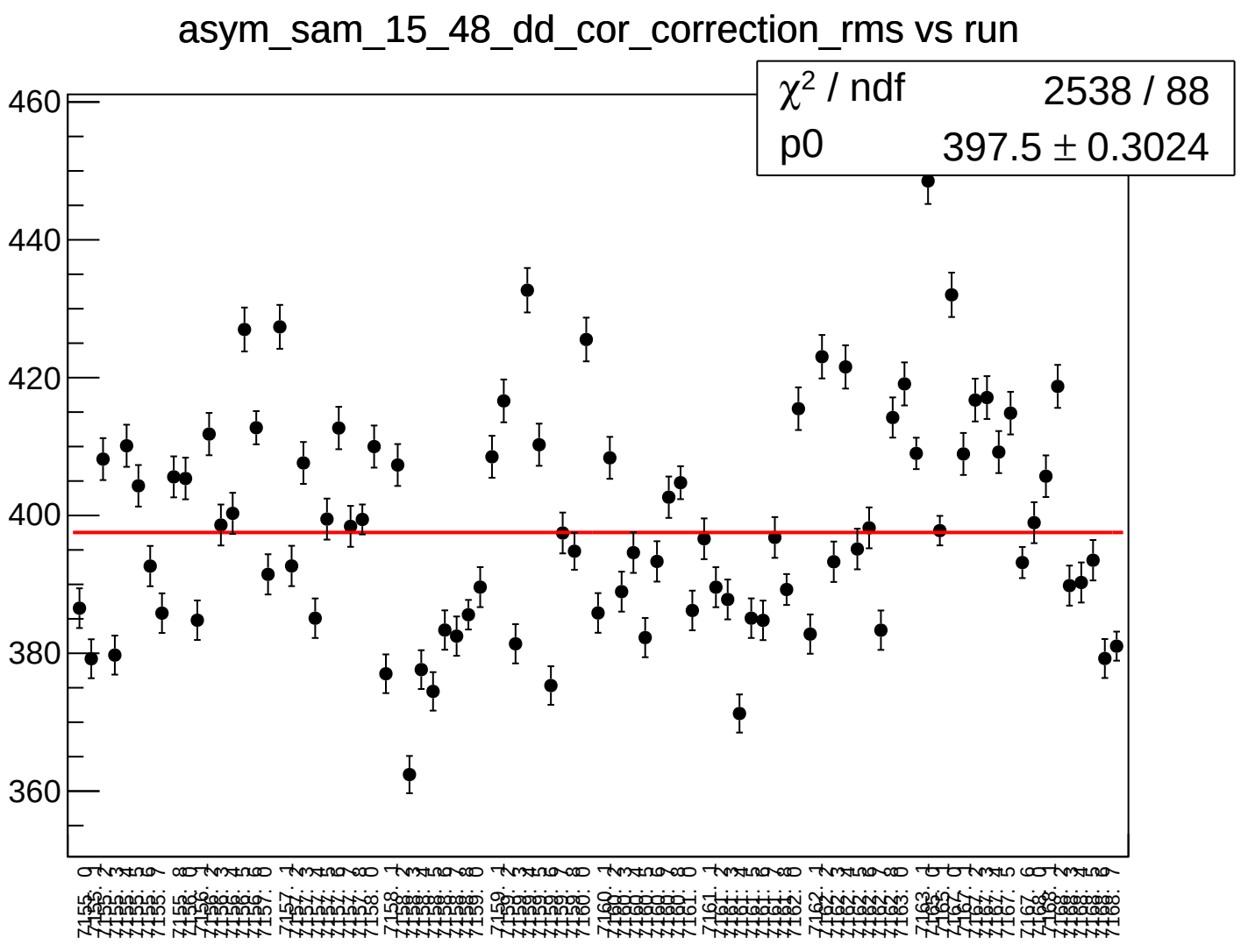
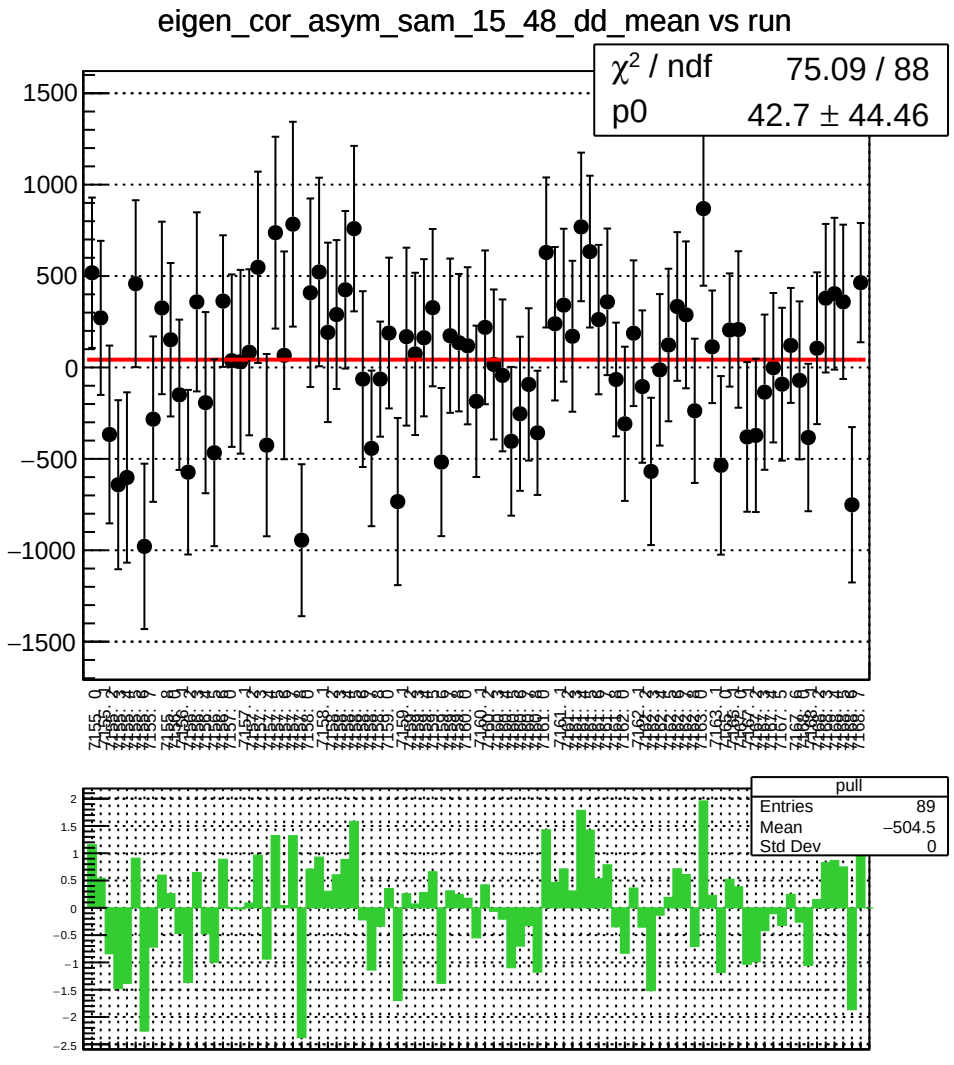
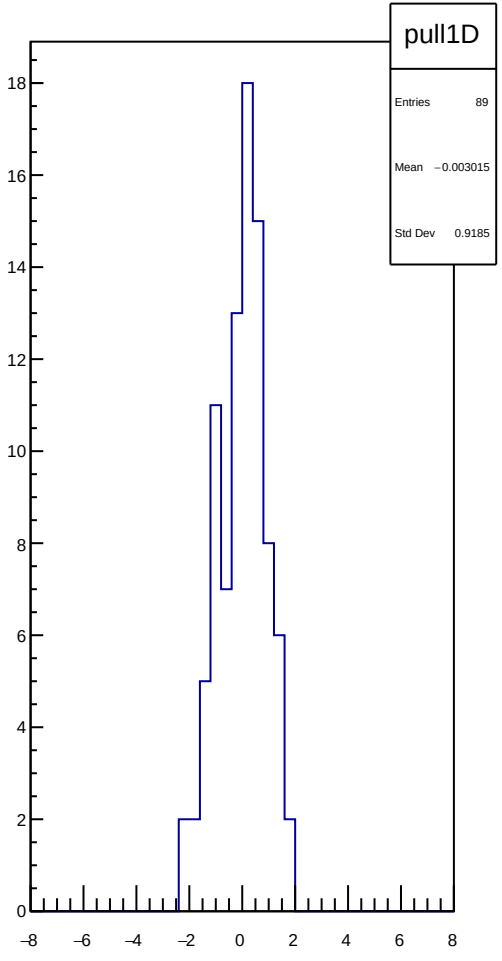
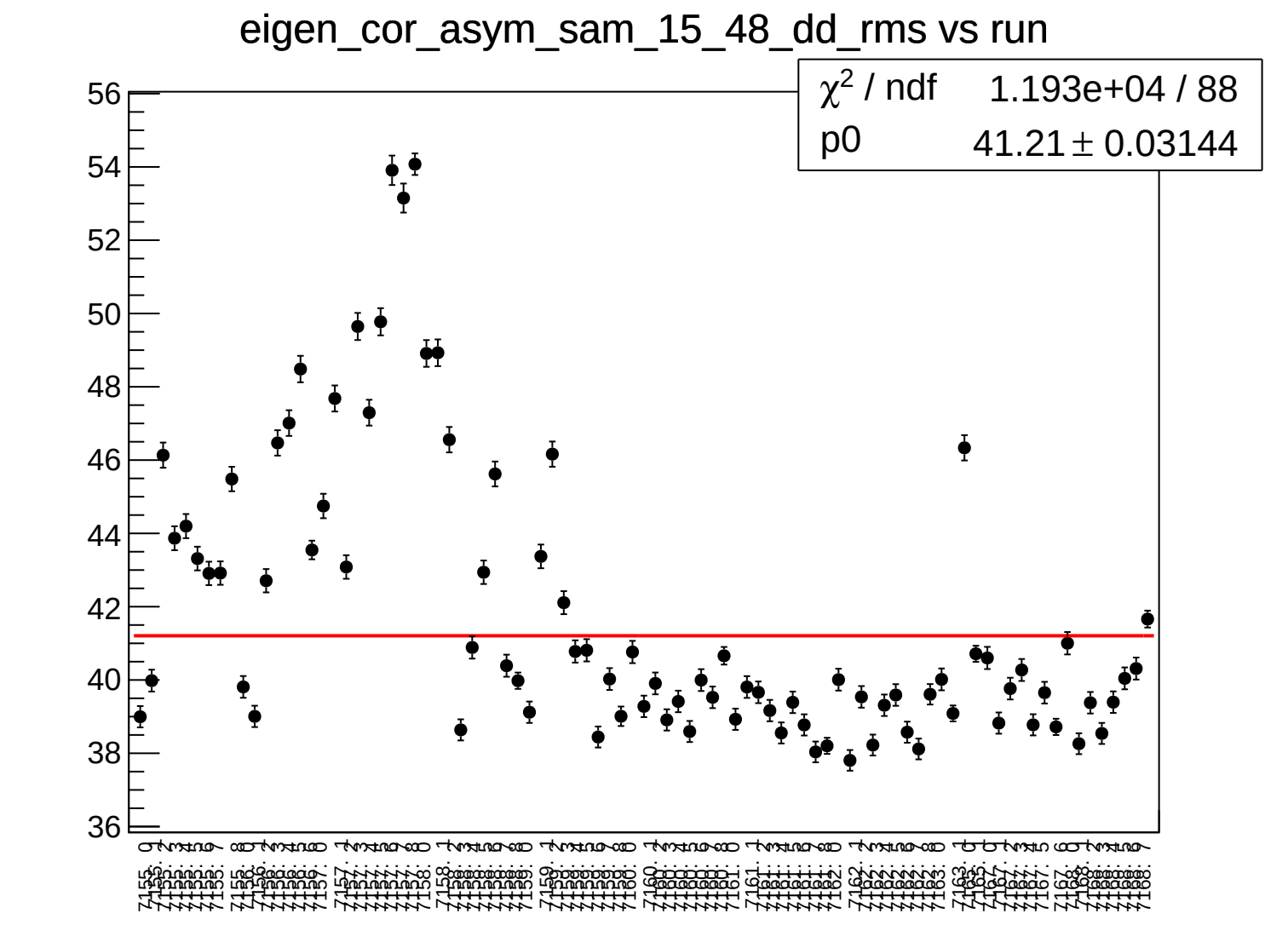
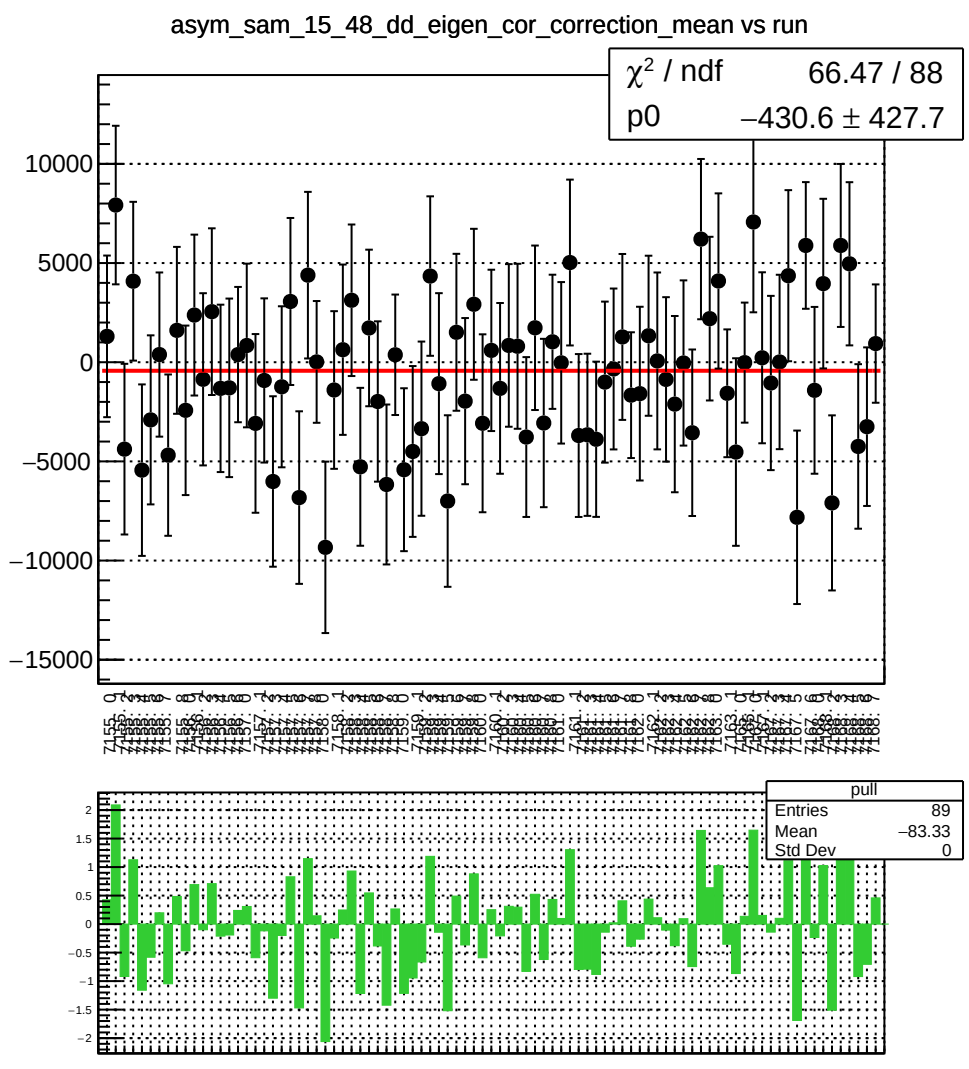
2
4
6
8

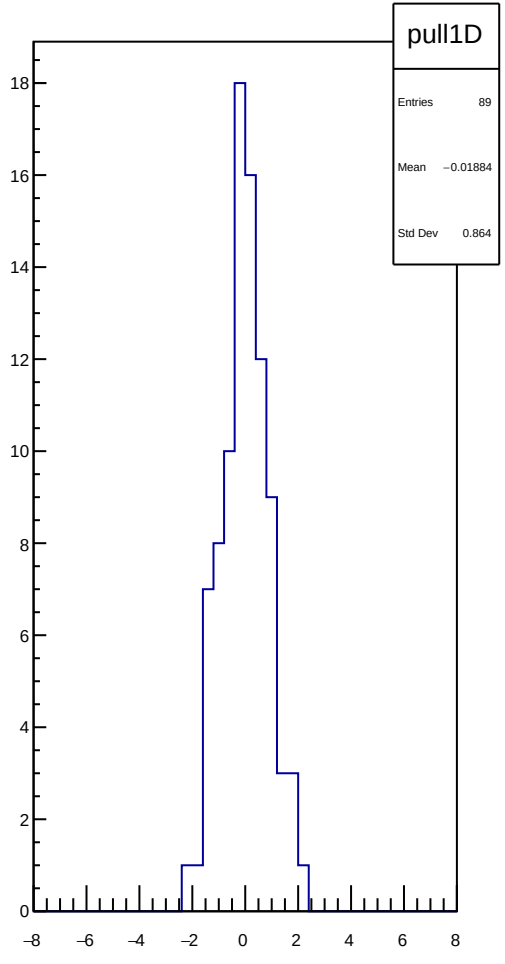

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 2538 / 88
p0 397.5 ± 0.3024
460
440
420
400
380
360

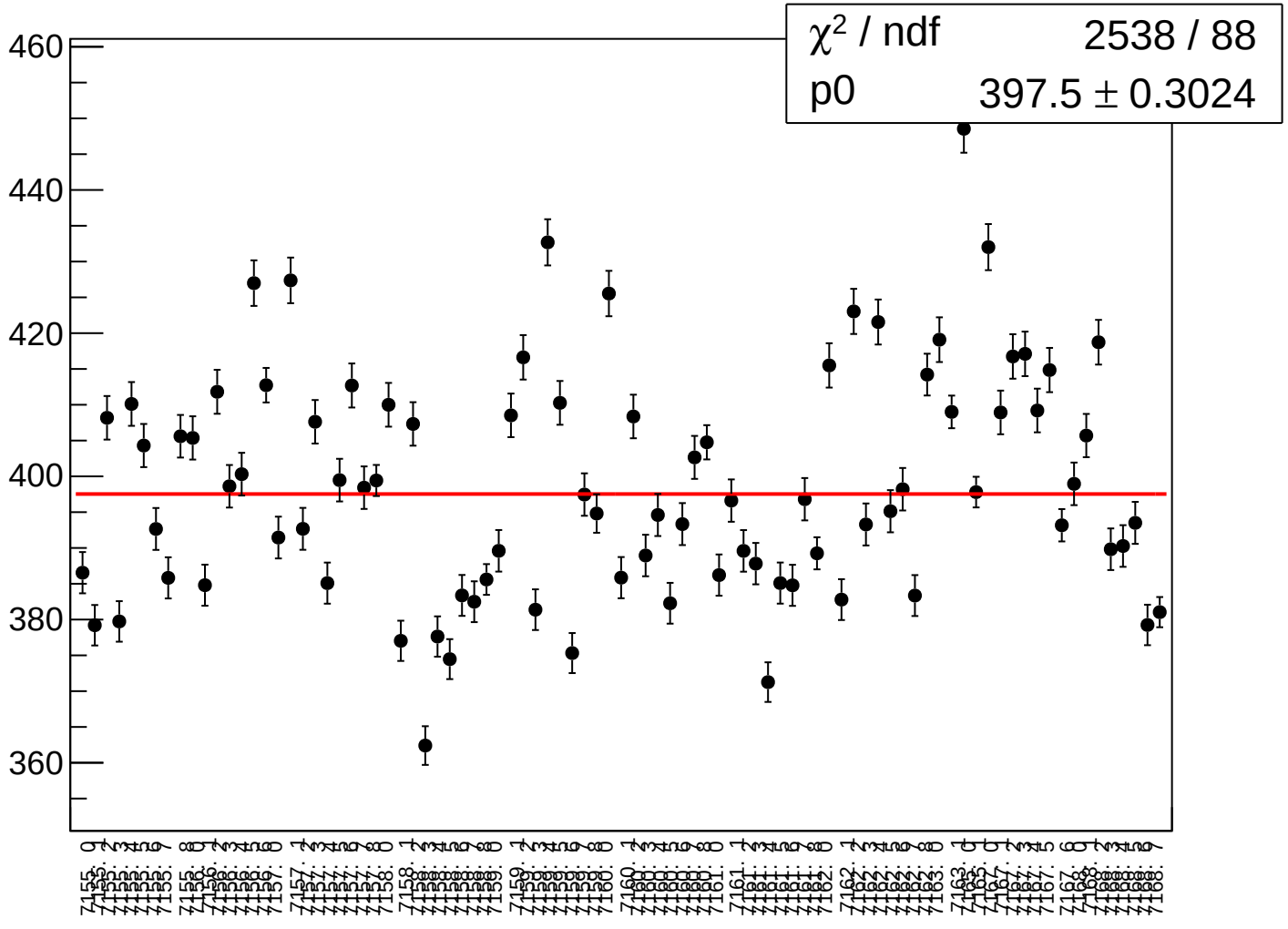

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.09 / 88
p0 42.7 ± 44.46
pull
Entries 89
Mean −504.5
Std Dev 0

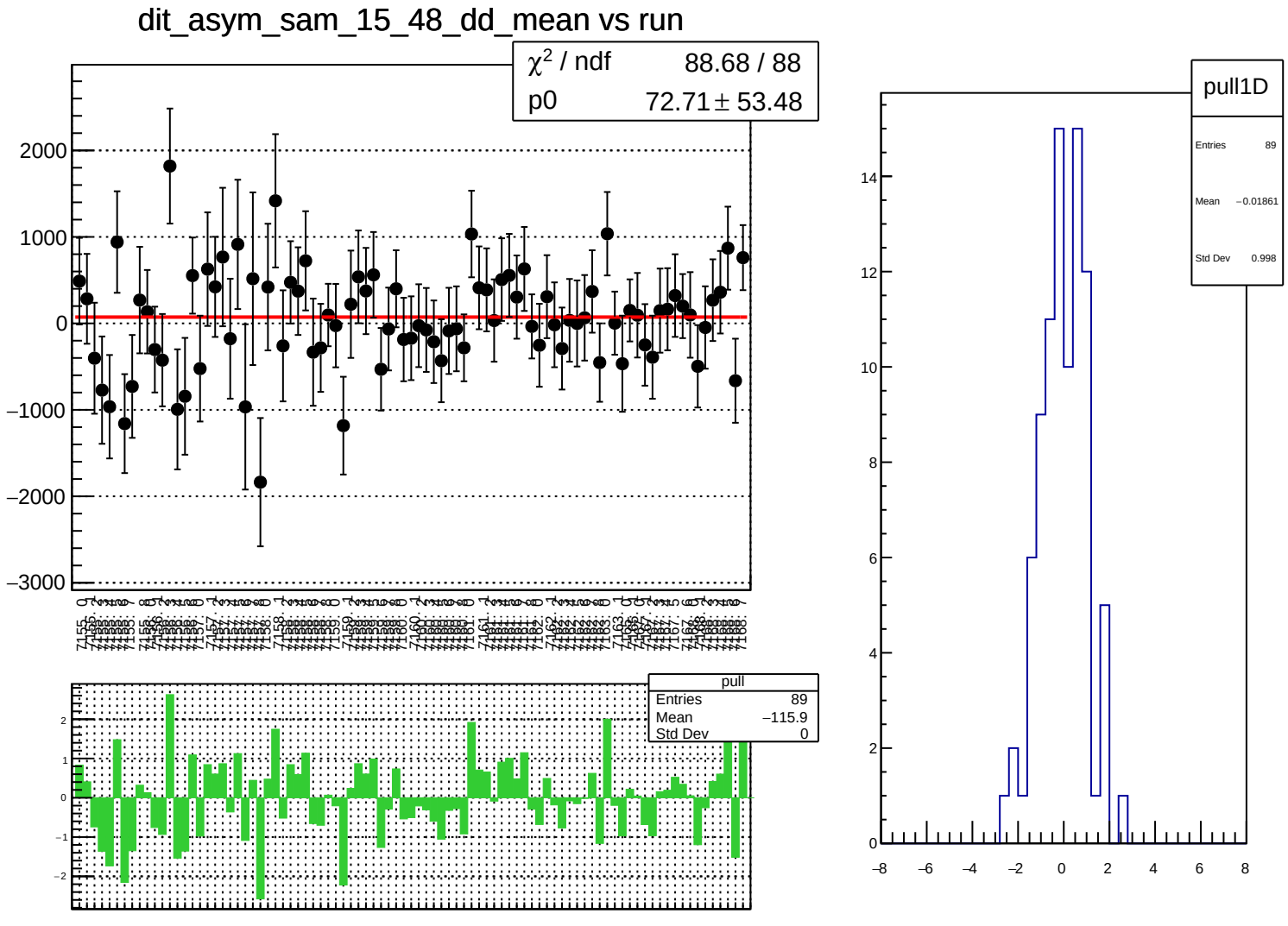

pull1D
Entries 89
Mean −0.003015
Std Dev 0.9185

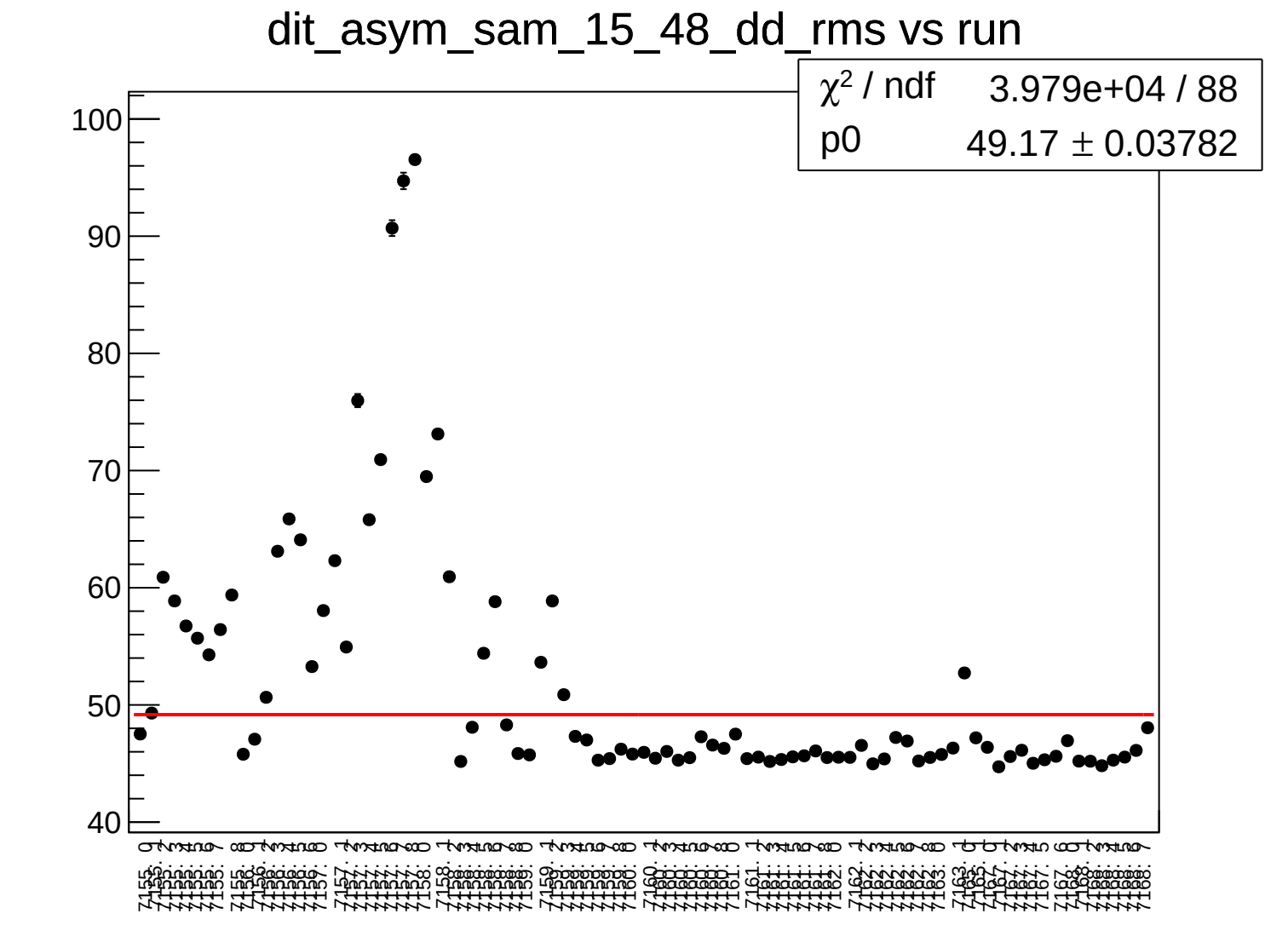

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.193e+04 / 88
p0 41.21 ± 0.03144
56
54
52
50
48
46
44
42
40
38
36

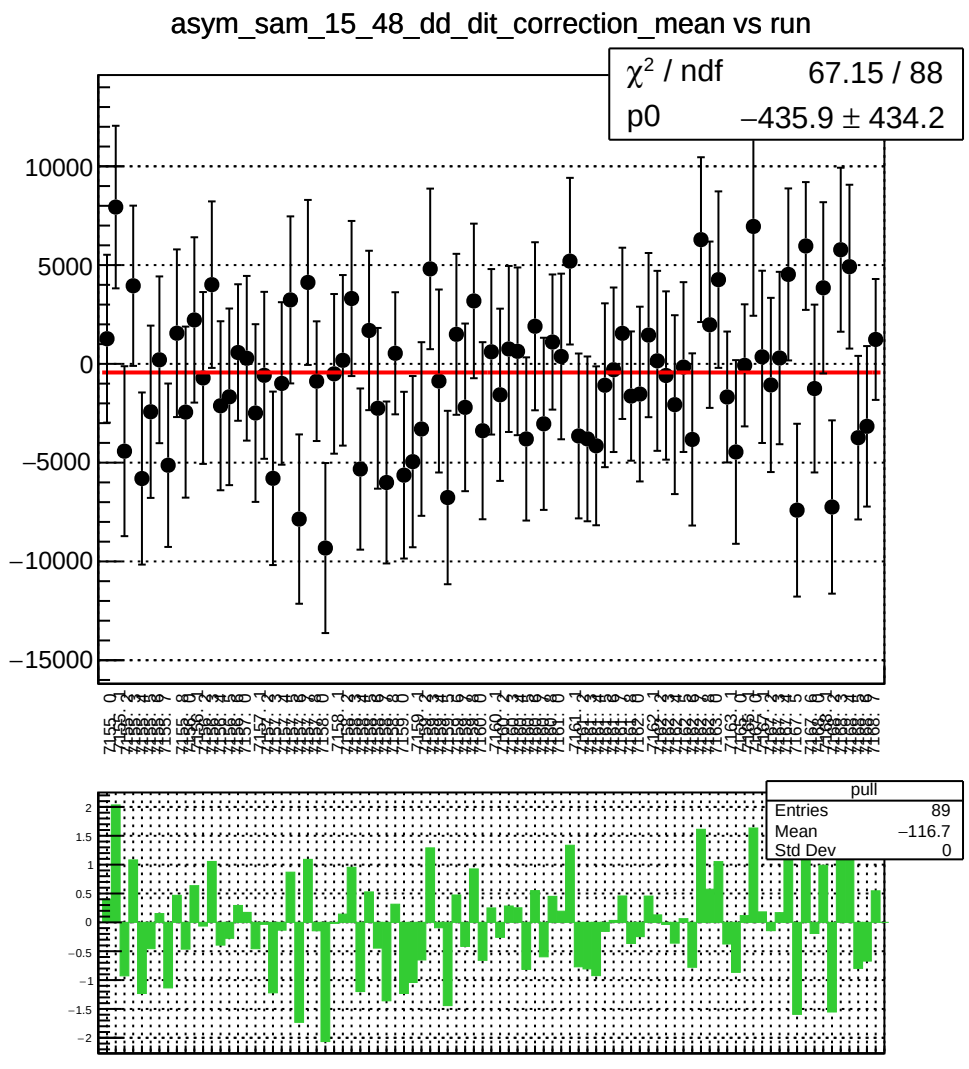

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.47 / 88
p0 −430.6 ± 427.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −83.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

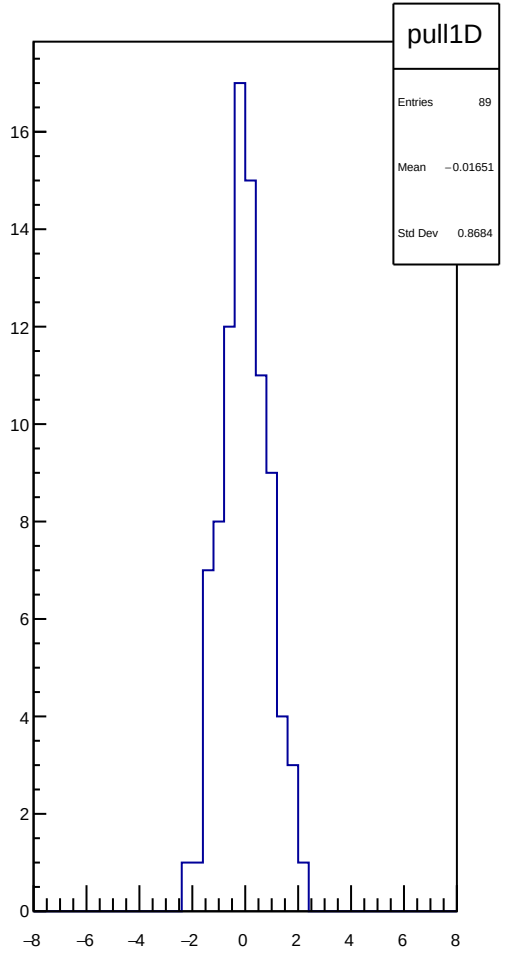

pull1D
Entries 89
Mean −0.01884
Std Dev 0.864
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

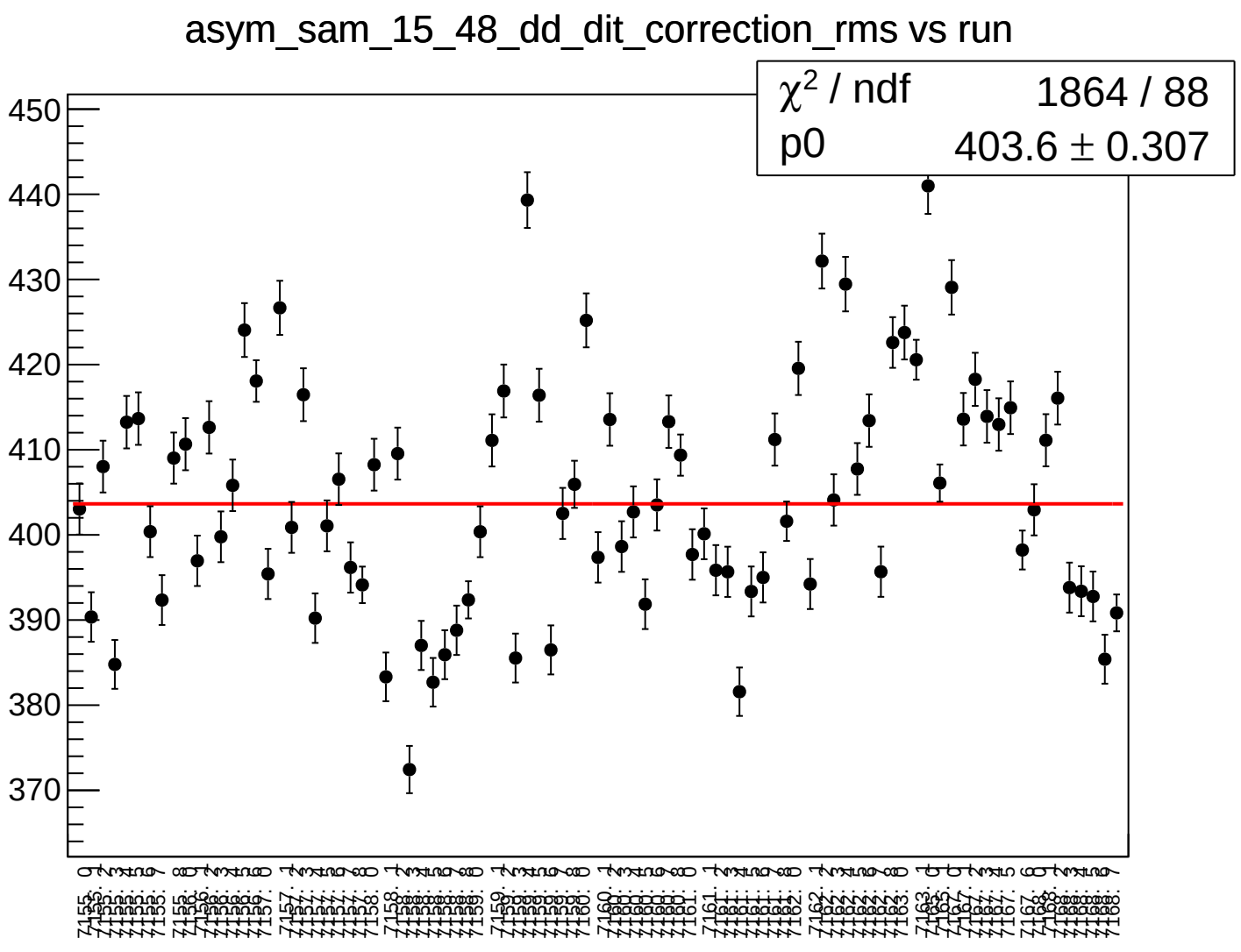

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2538 / 88
p0 397.5 ± 0.3024
460
440
420
400
380
360

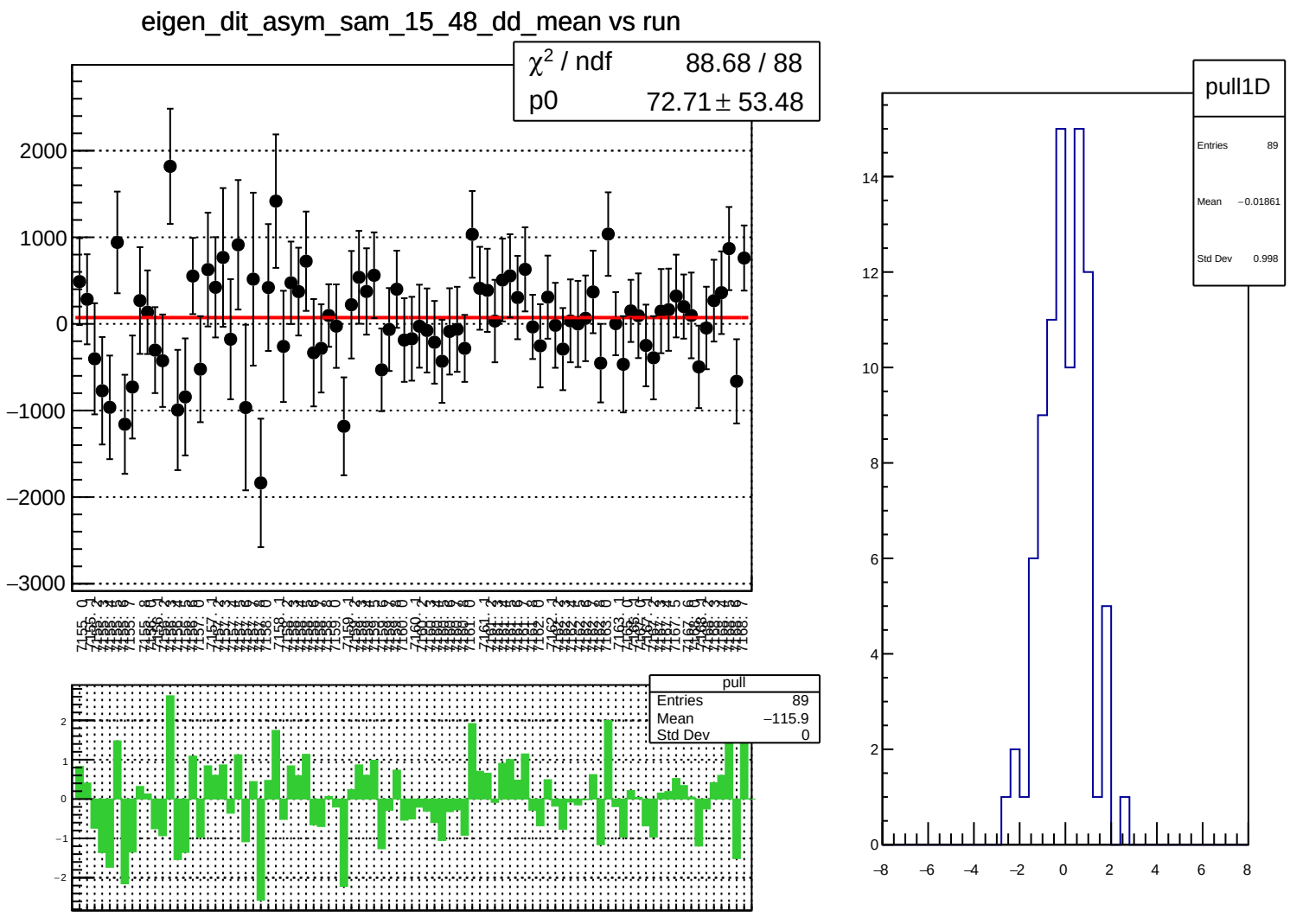

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.68 / 88
p0 72.71 ± 53.48
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −115.9
Std Dev 0
pull1D
Entries 89
Mean −0.01861
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

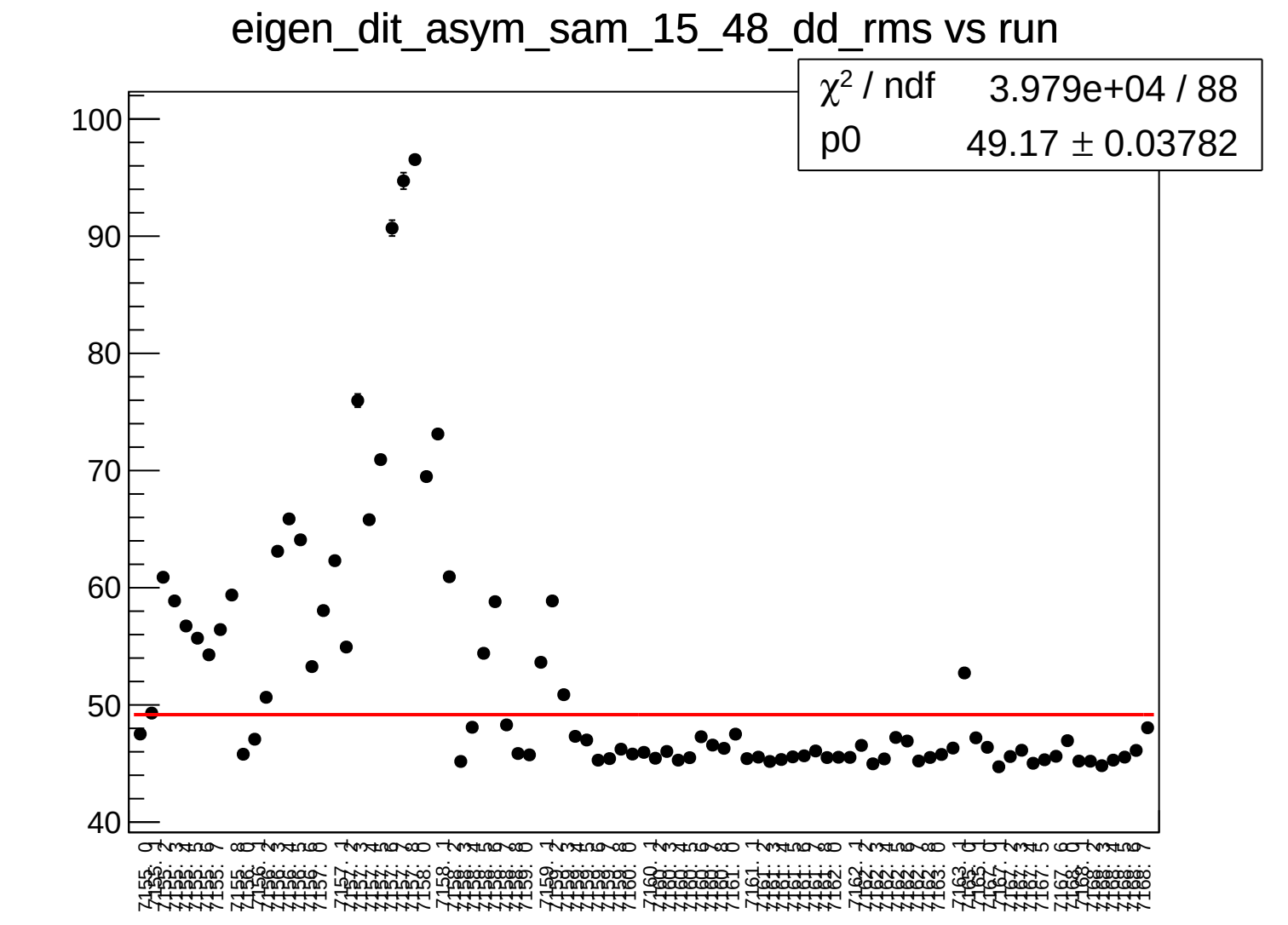

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.979e+04 / 88
p0 49.17 ± 0.03782
100
90
80
70
60
50
40

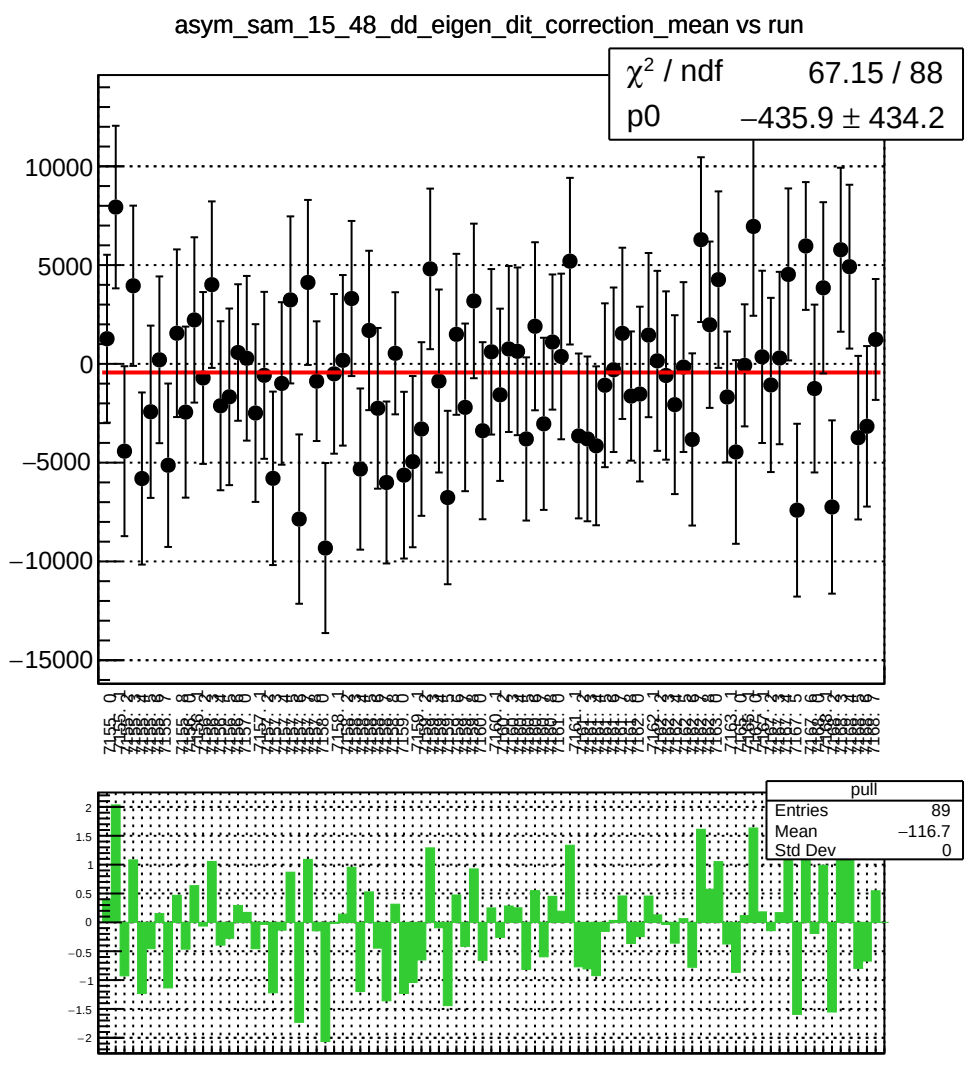

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 67.15 / 88
p0 −435.9 ± 434.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −116.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

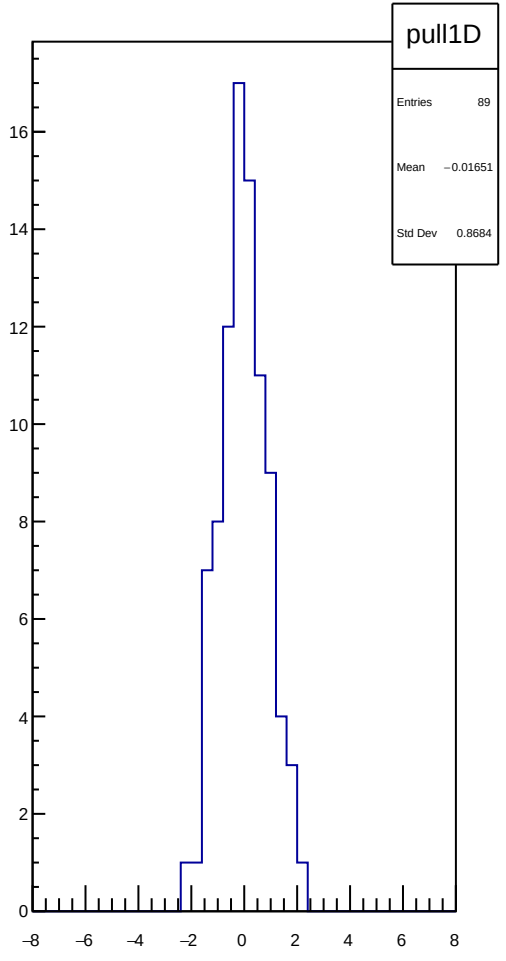

pull1D
Entries 89
Mean −0.01651
Std Dev 0.8684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

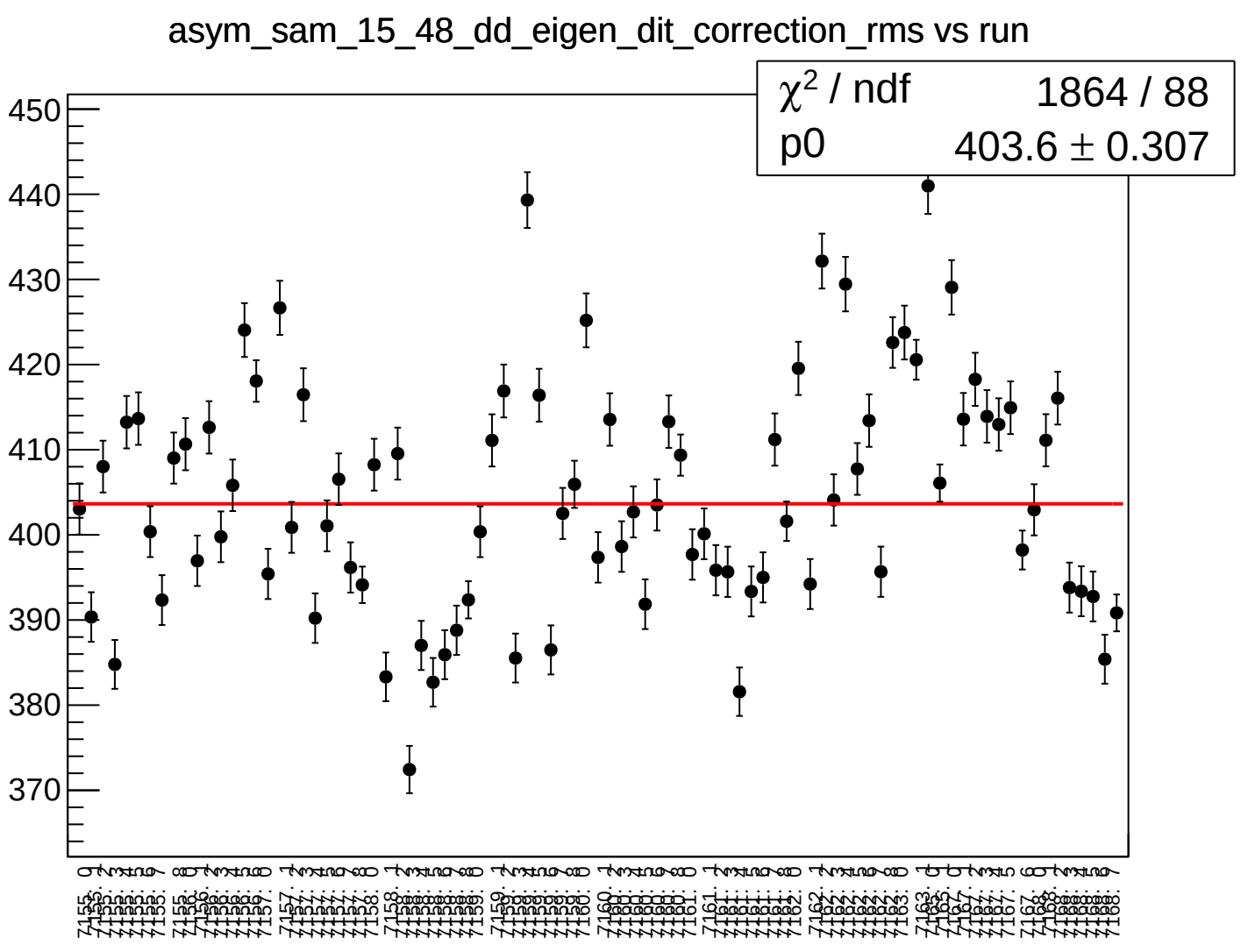

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1864 / 88
p0 403.6 ± 0.307
450
440
430
420
410
400
390
380
370

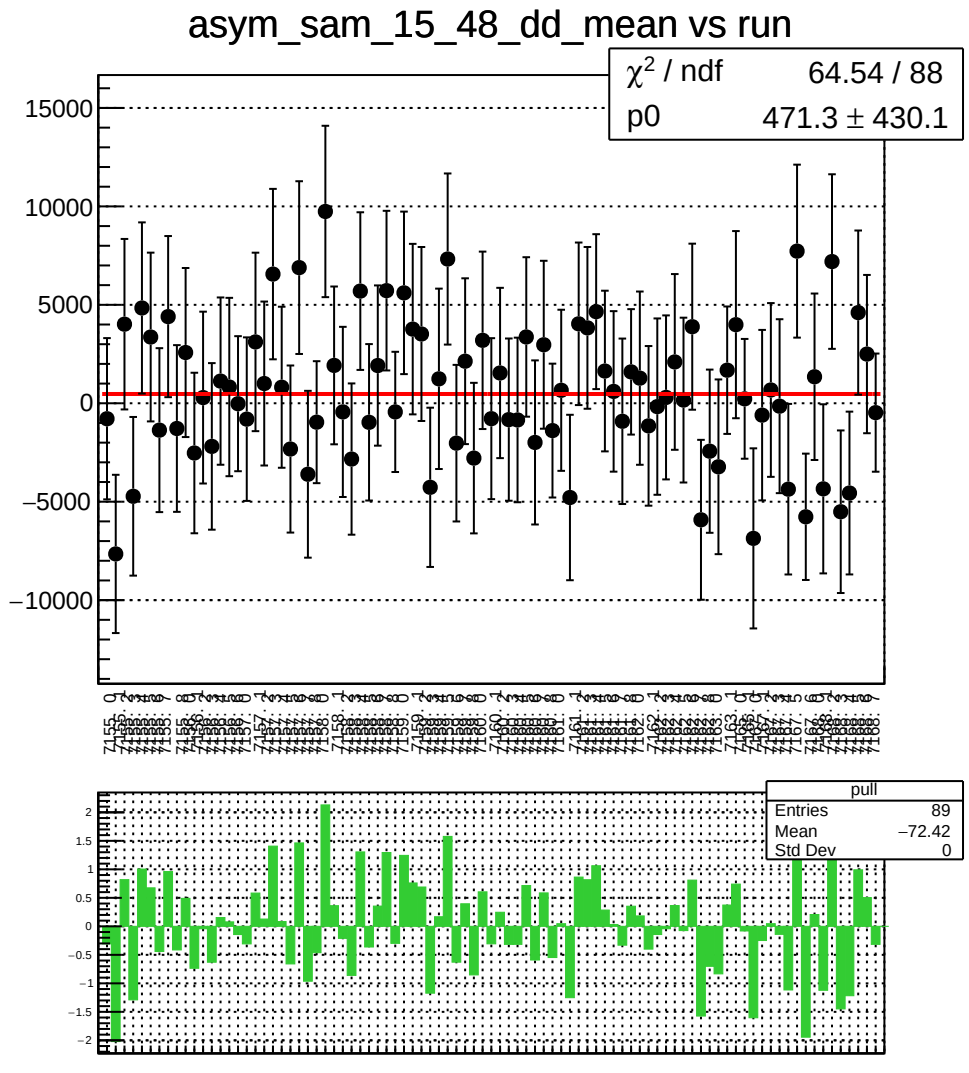

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 88.68 / 88
p0 72.71 ± 53.48
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −115.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01861
Std Dev 0.998
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

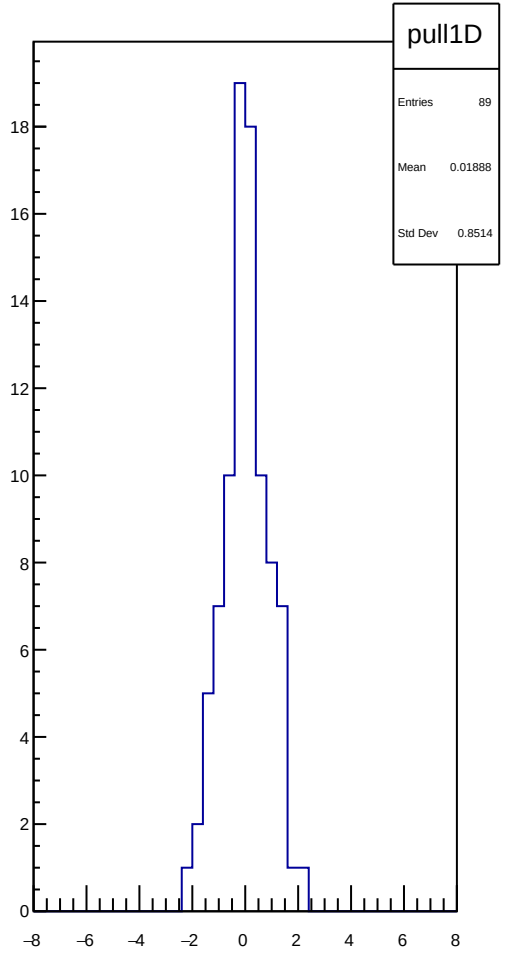

eigen_dit_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3.979e+04 / 88
p0 49.17 ± 0.03782
100
90
80
70
60
50
40


asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 67.15 / 88
p0 −435.9 ± 434.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −116.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean −0.01651
Std Dev 0.8684
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1864 / 88
p0 403.6 ± 0.307
450
440
430
420
410
400
390
380
370


asym_sam_15_48_dd_mean vs run
χ² / ndf 64.54 / 88
p0 471.3 ± 430.1
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −72.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 89
Mean 0.01888
Std Dev 0.8514
18
16
14
12
10
8
6
4
2
0
−8
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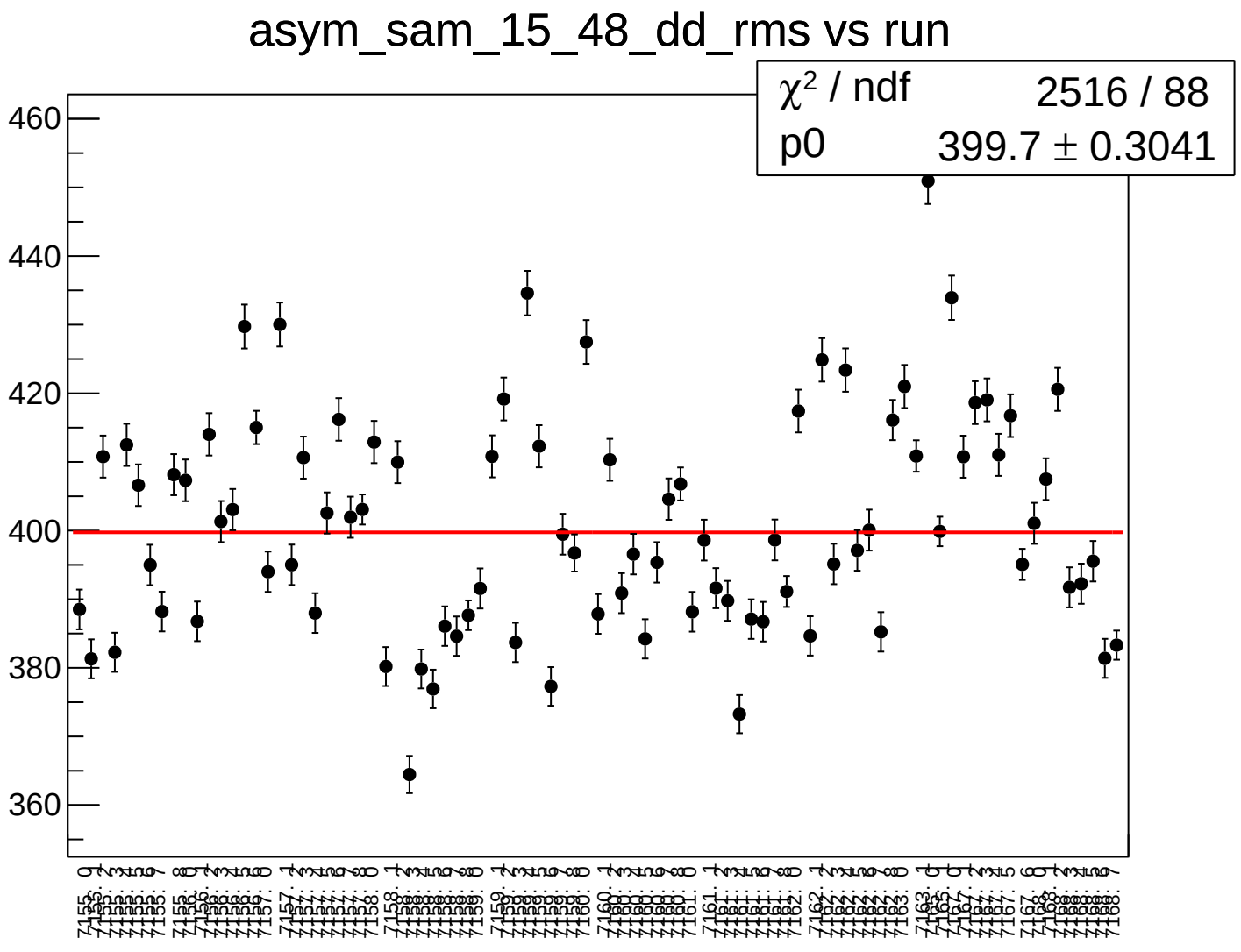
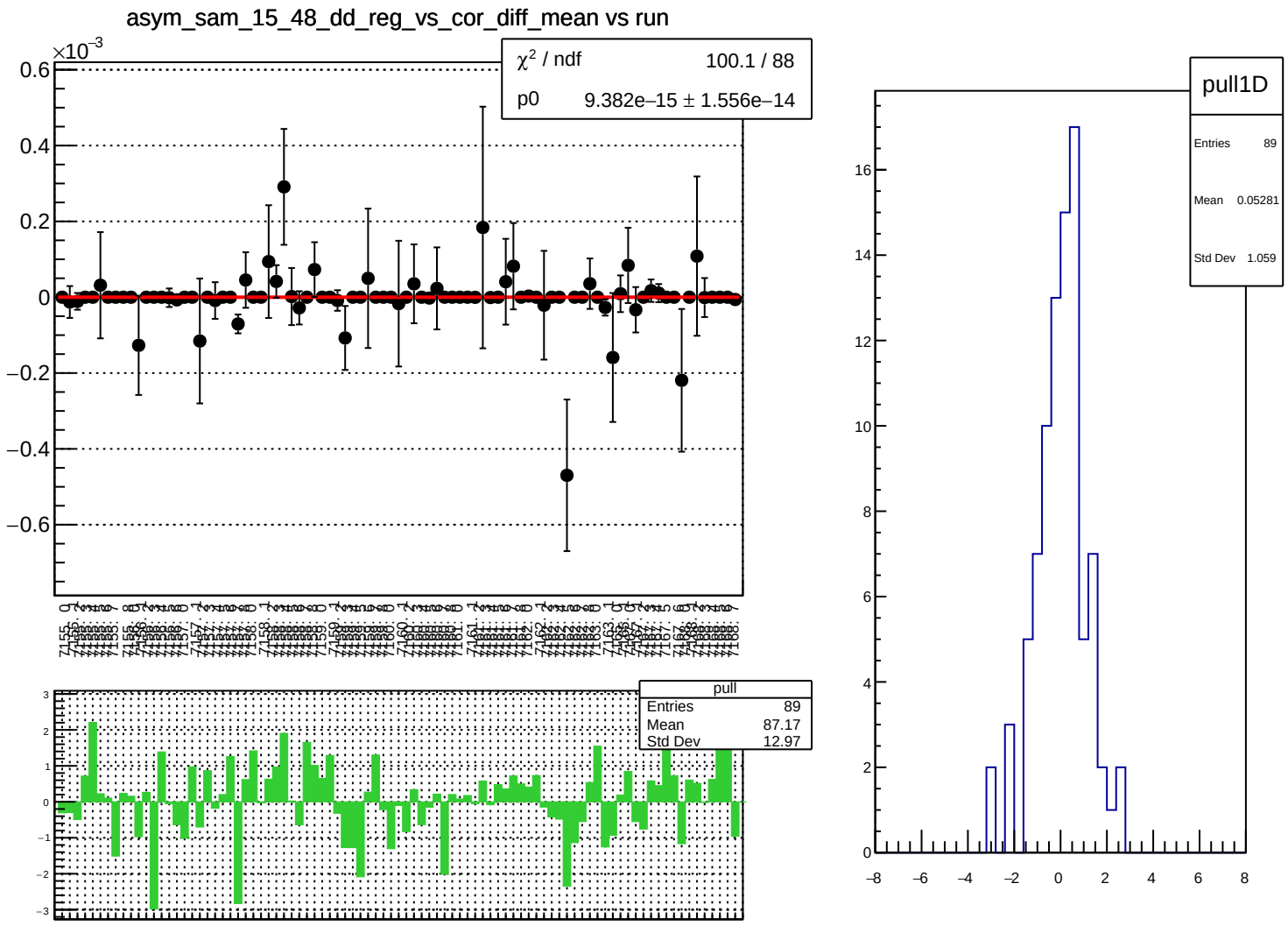
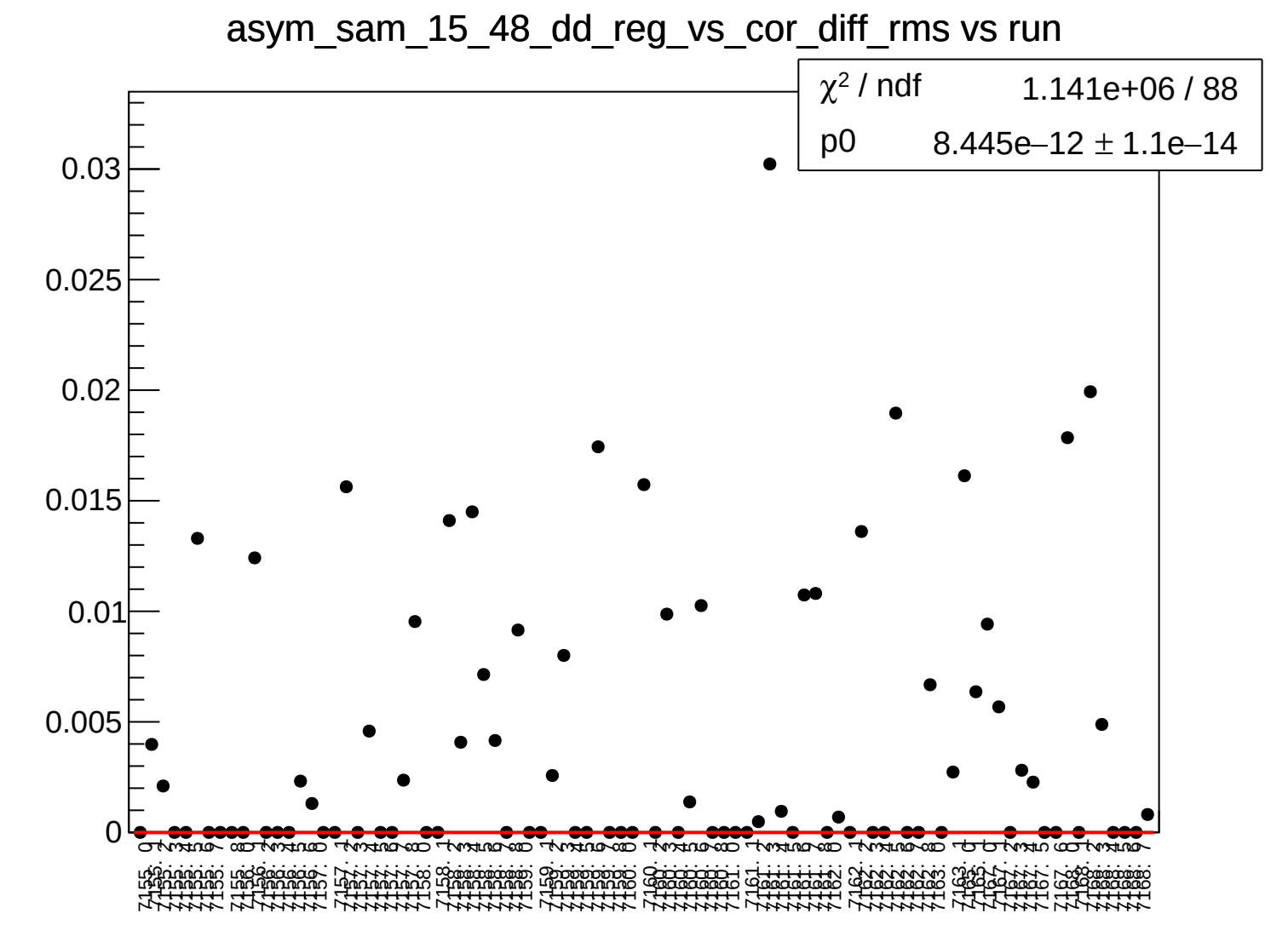
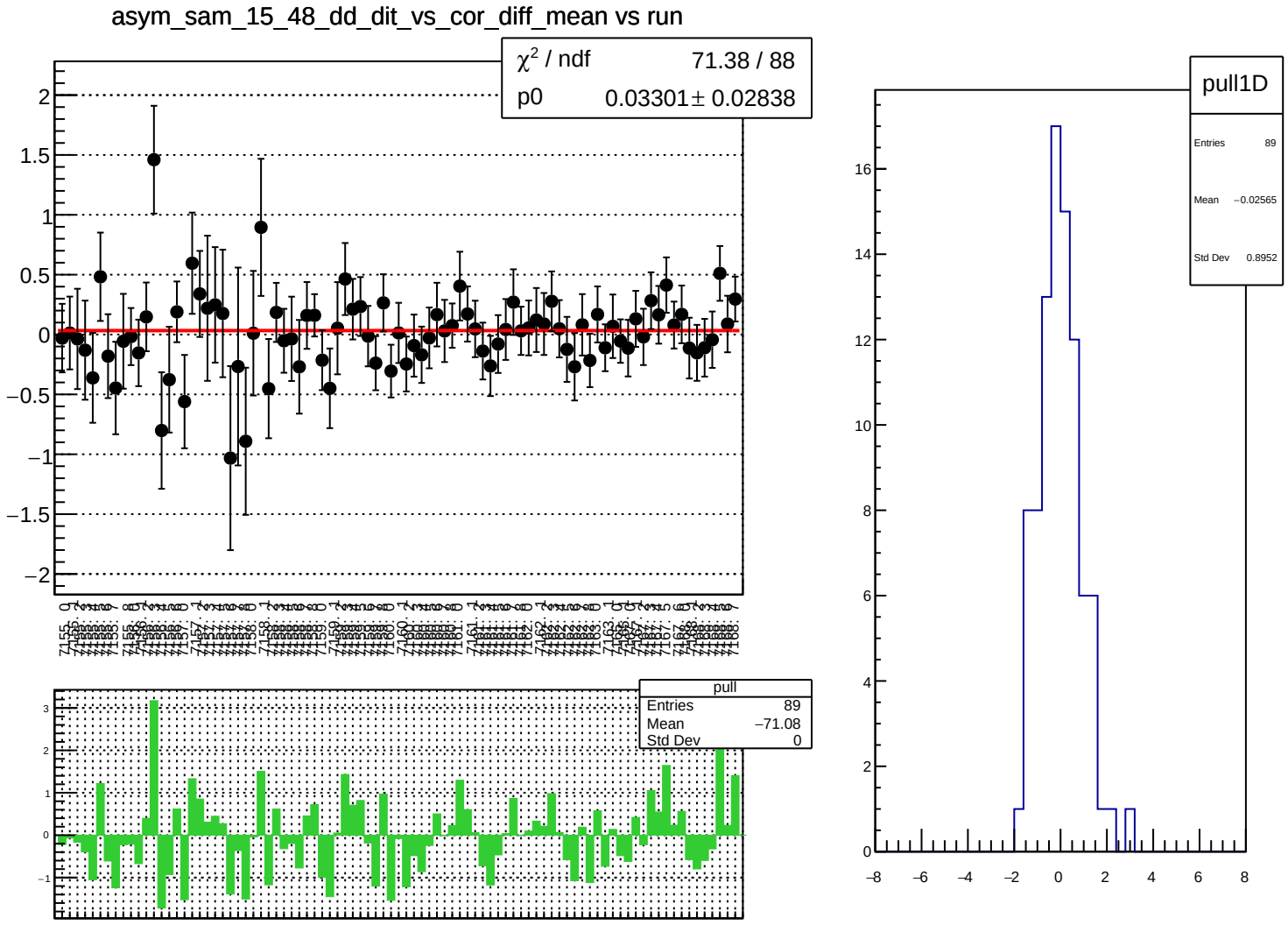
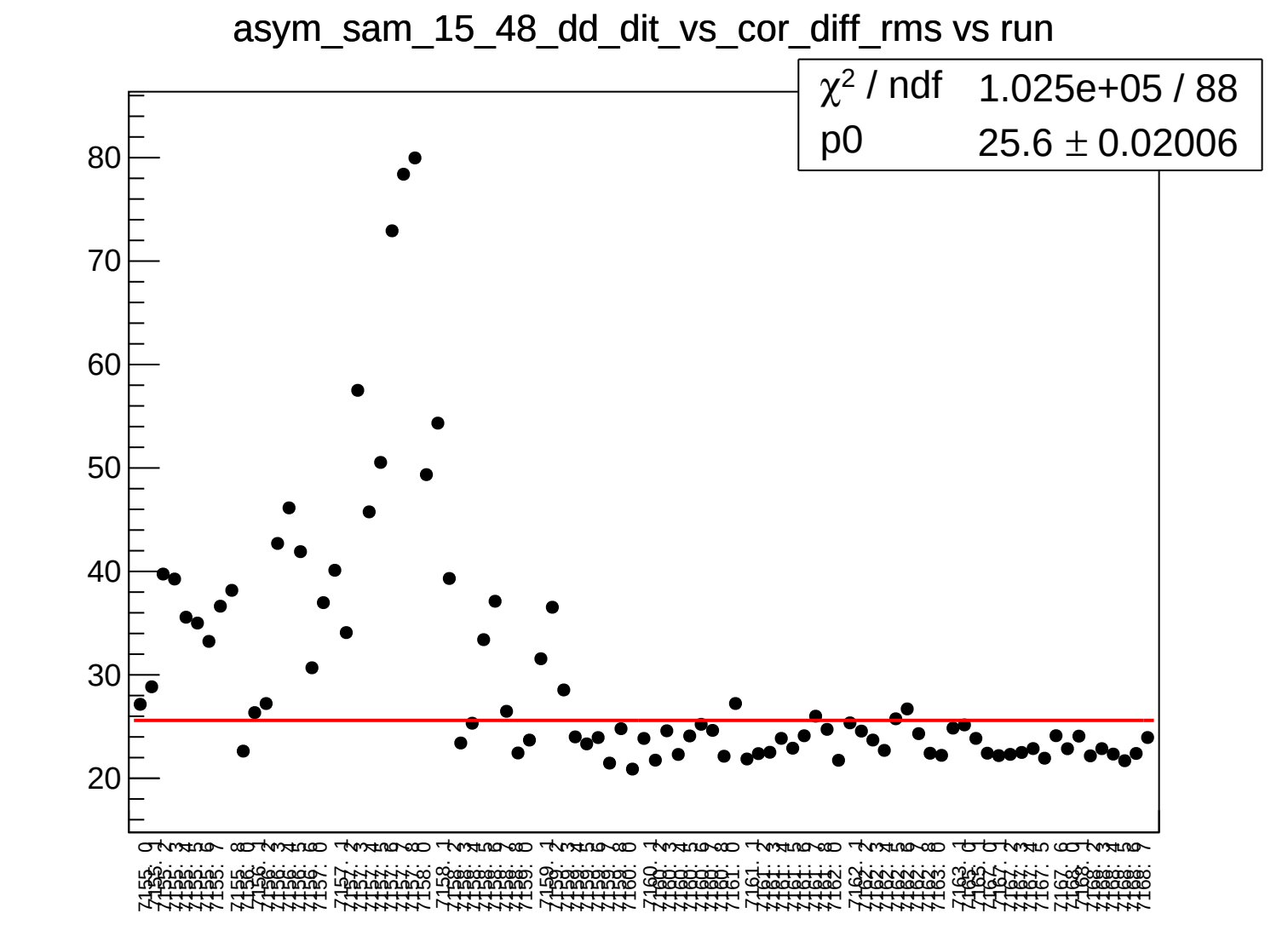
−4
−2
0
2
4
6
8

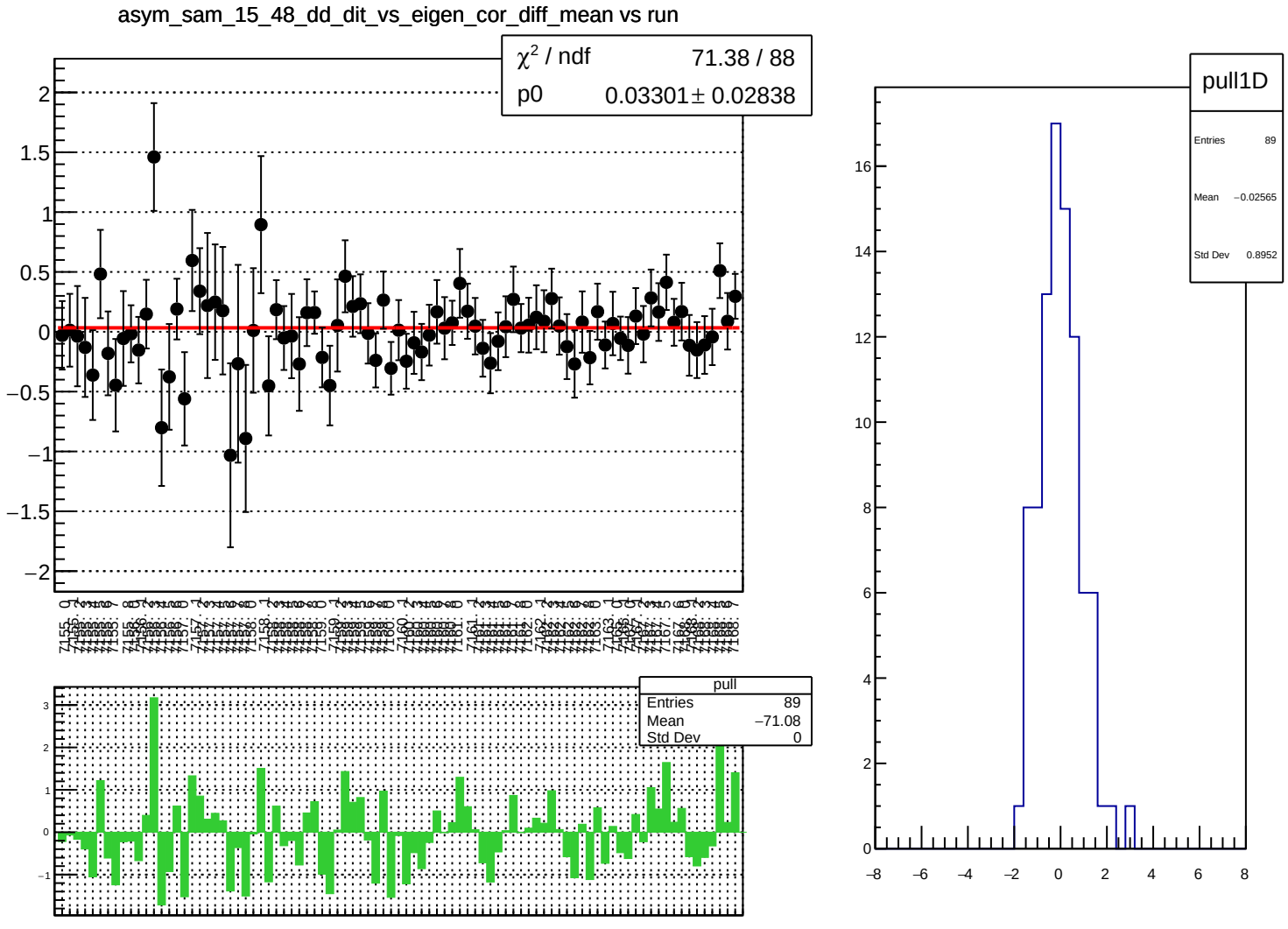

asym_sam_15_48_dd_rms vs run
χ² / ndf 2516 / 88
p0 399.7 ± 0.3041
460
440
420
400
380
360

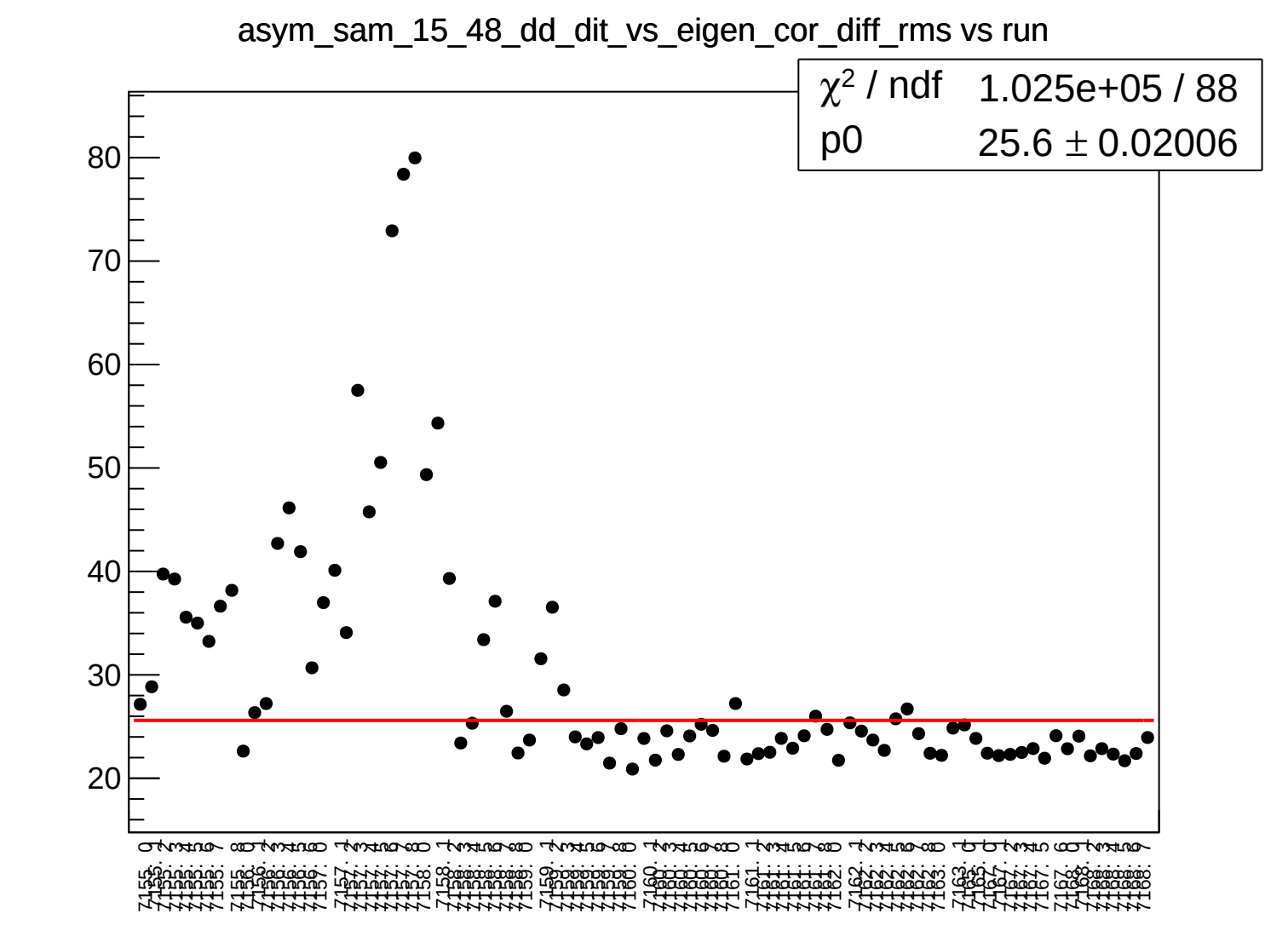

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 100.1 / 88
p0 9.382e−15 ± 1.556e−14
pull
Entries 89
Mean 87.17
Std Dev 12.97
pull1D
Entries 89
Mean 0.05281
Std Dev 1.059

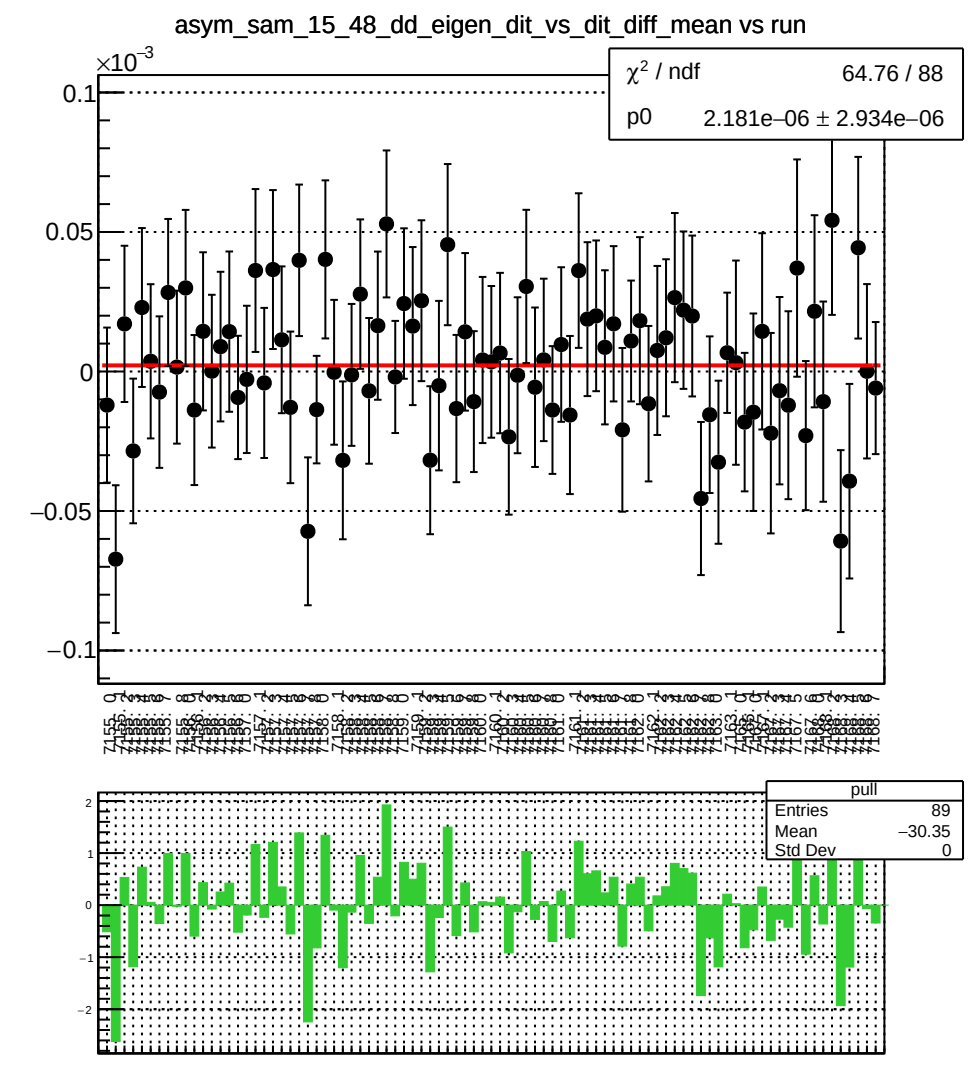

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.141e+06 / 88
p0 8.445e−12 ± 1.1e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

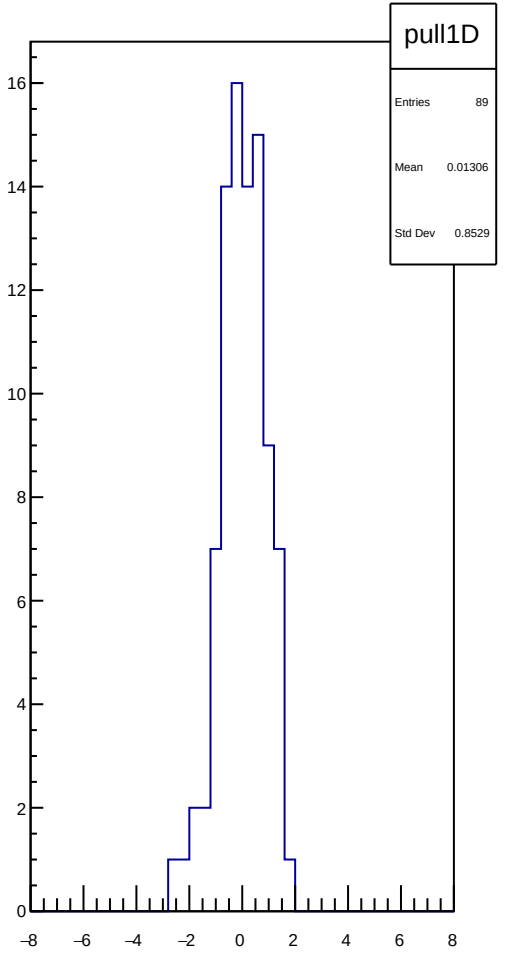

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 71.38 / 88
p0 0.03301 ± 0.02838
pull
Entries 89
Mean −71.08
Std Dev 0
pull1D
Entries 89
Mean −0.02565
Std Dev 0.8952

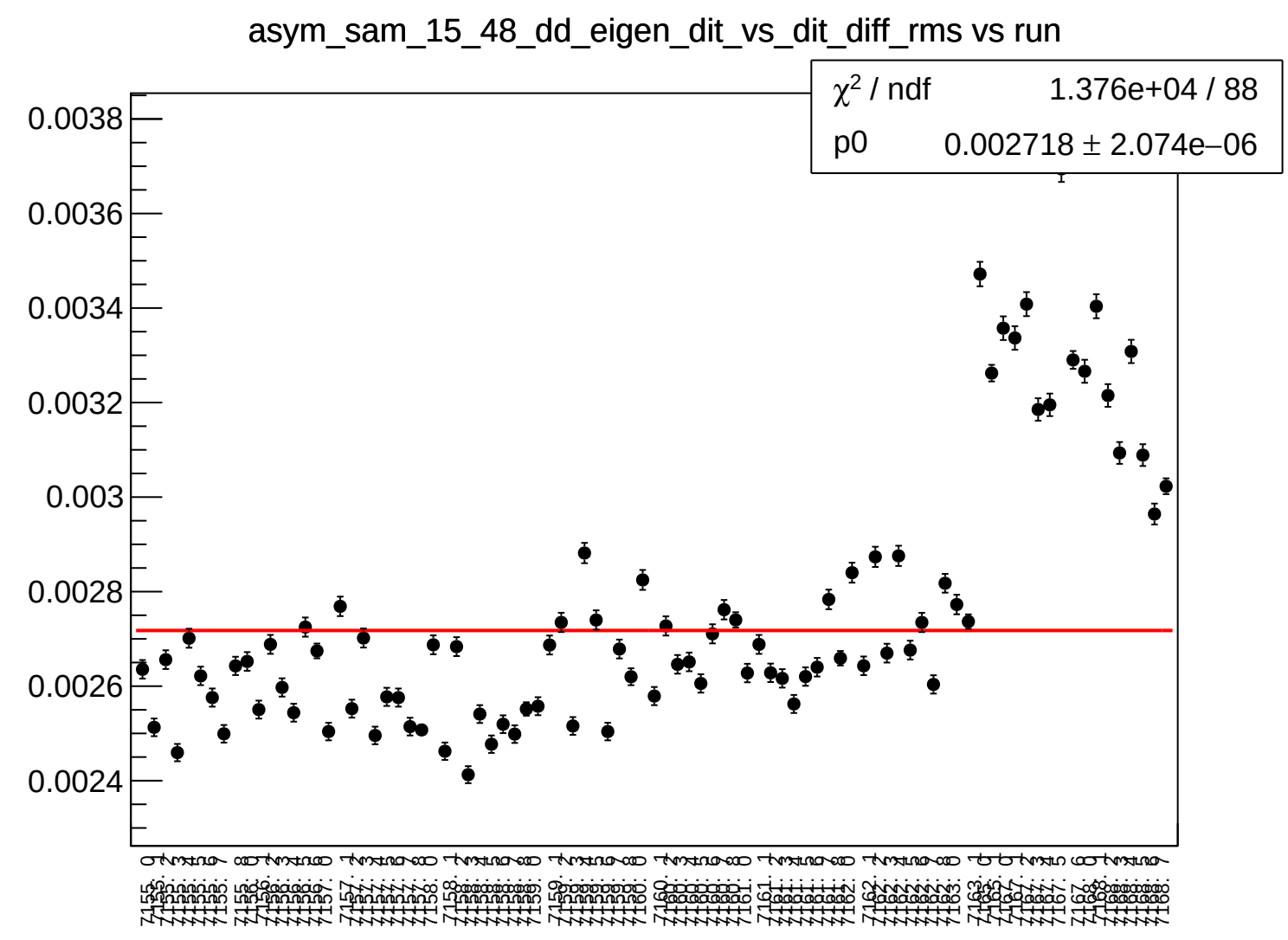

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 88
p0 25.6 ± 0.02006
80
70
60
50
40
30
20

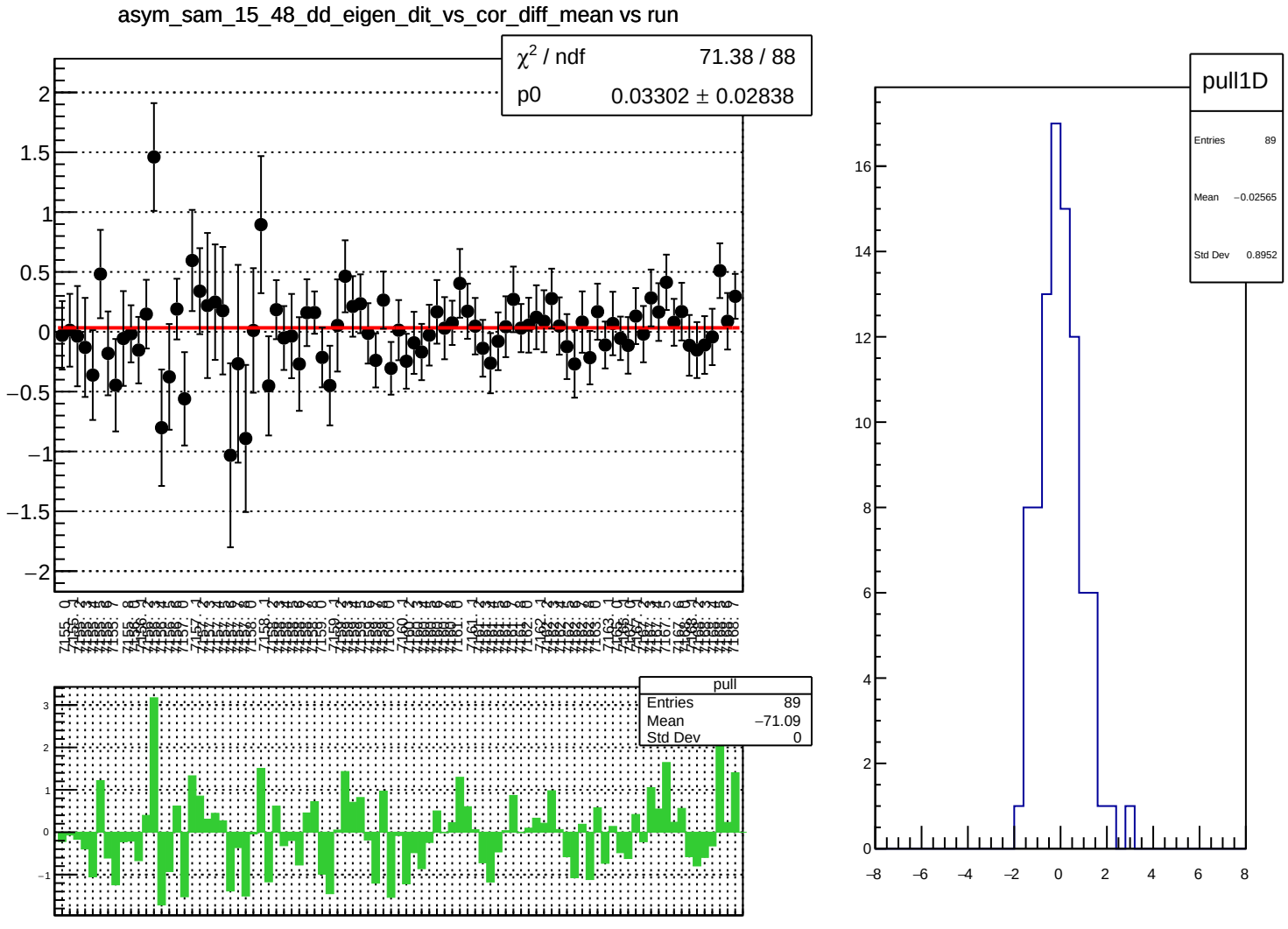

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.38 / 88
p0 0.03301 ± 0.02838
pull
Entries 89
Mean −71.08
Std Dev 0
pull1D
Entries 89
Mean −0.02565
Std Dev 0.8952

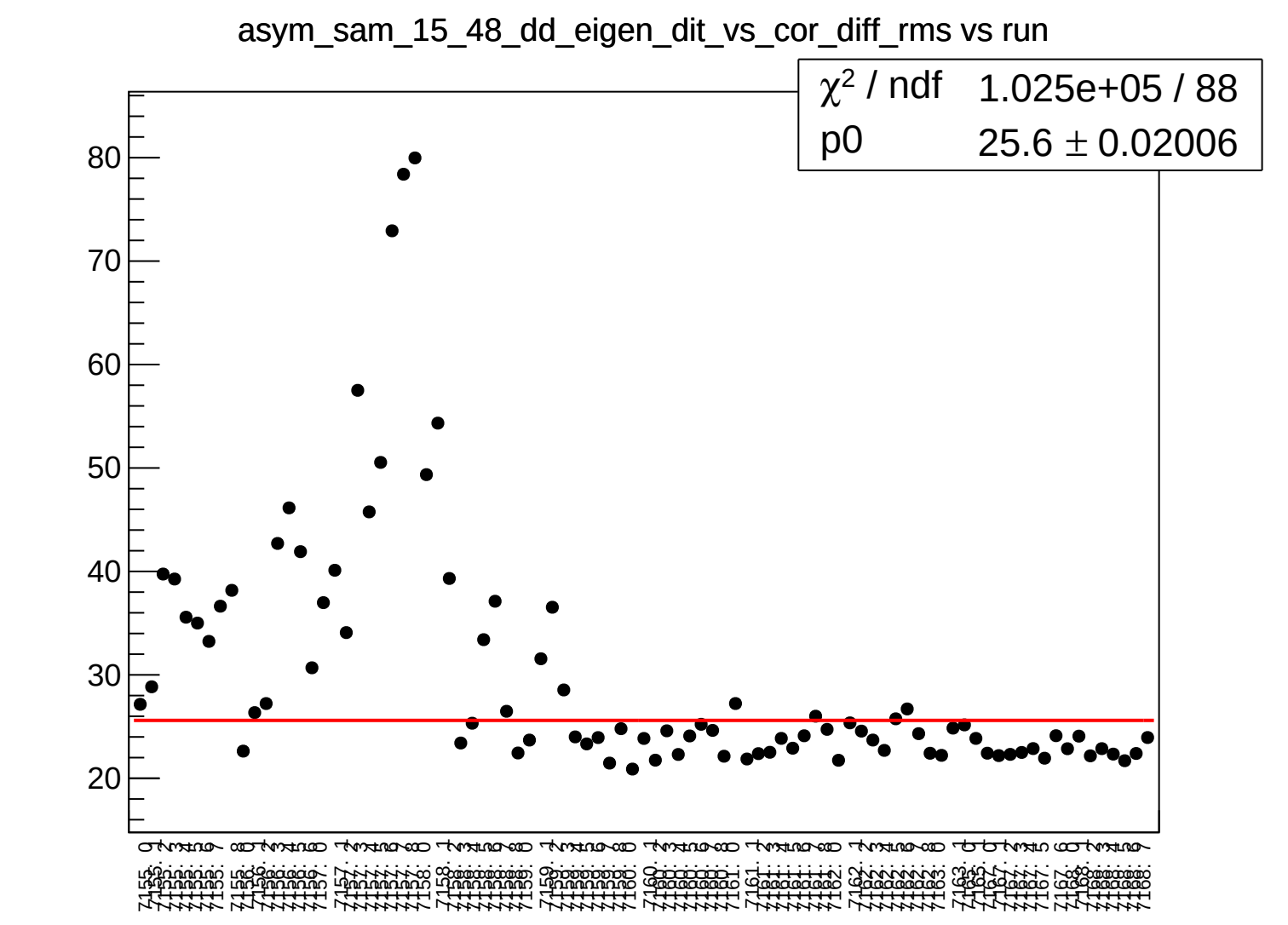

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 88
p0 25.6 ± 0.02006
80
70
60
50
40
30
20

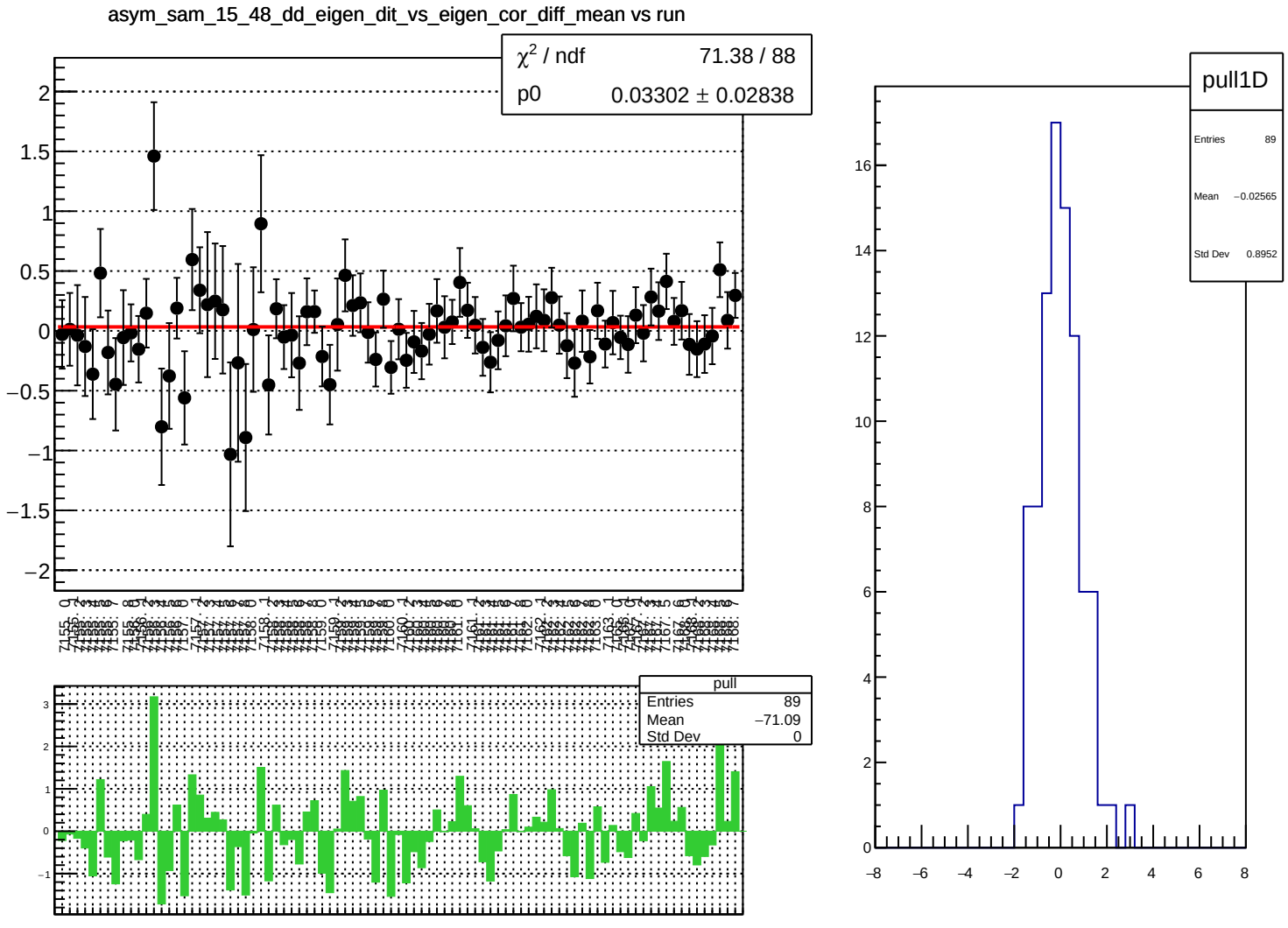

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 64.76 / 88
p0 2.181e−06 ± 2.934e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 89
Mean −30.35
Std Dev 0
2
1
0
−1
−2

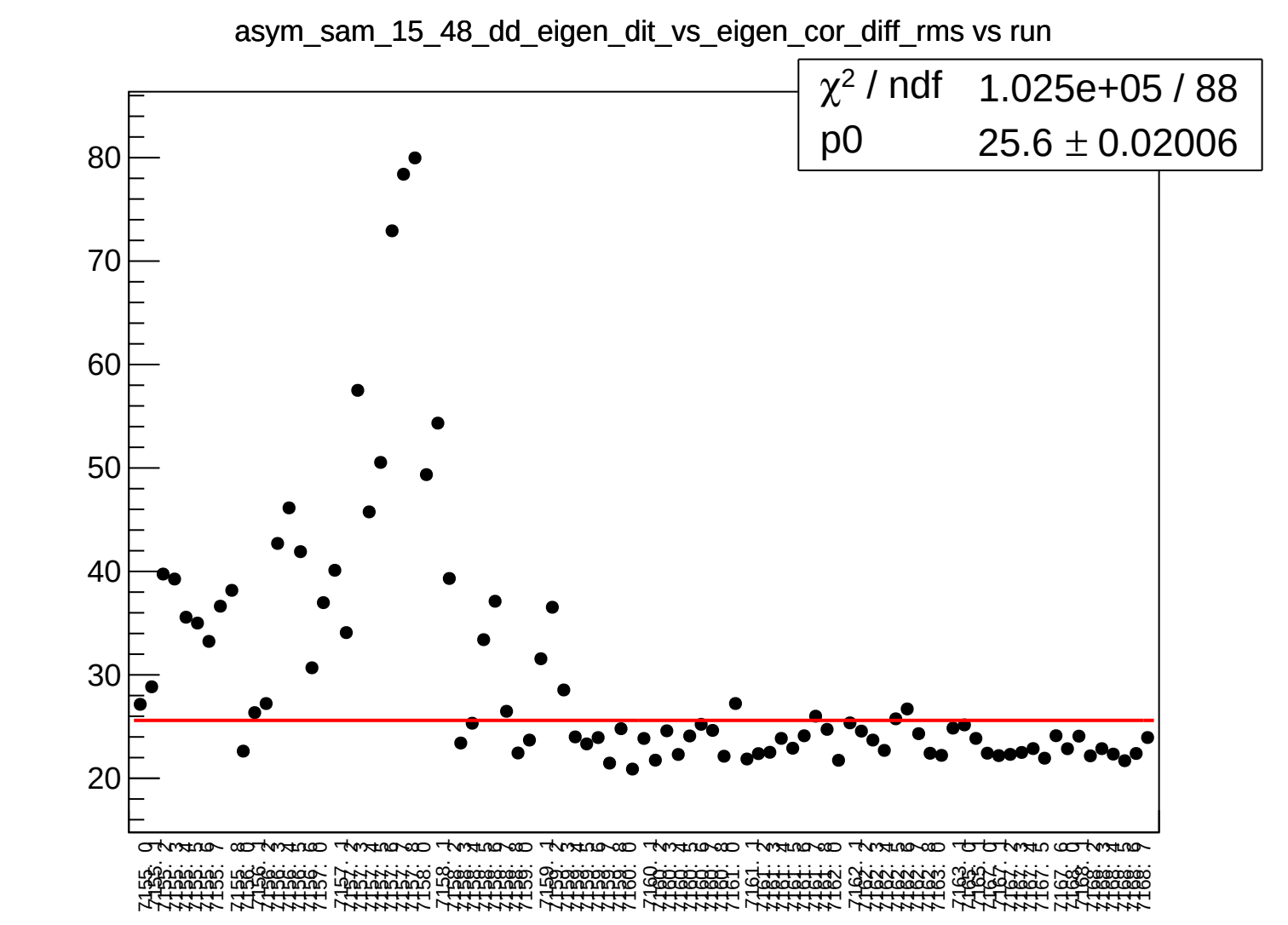

pull1D
Entries 89
Mean 0.01306
Std Dev 0.8529
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

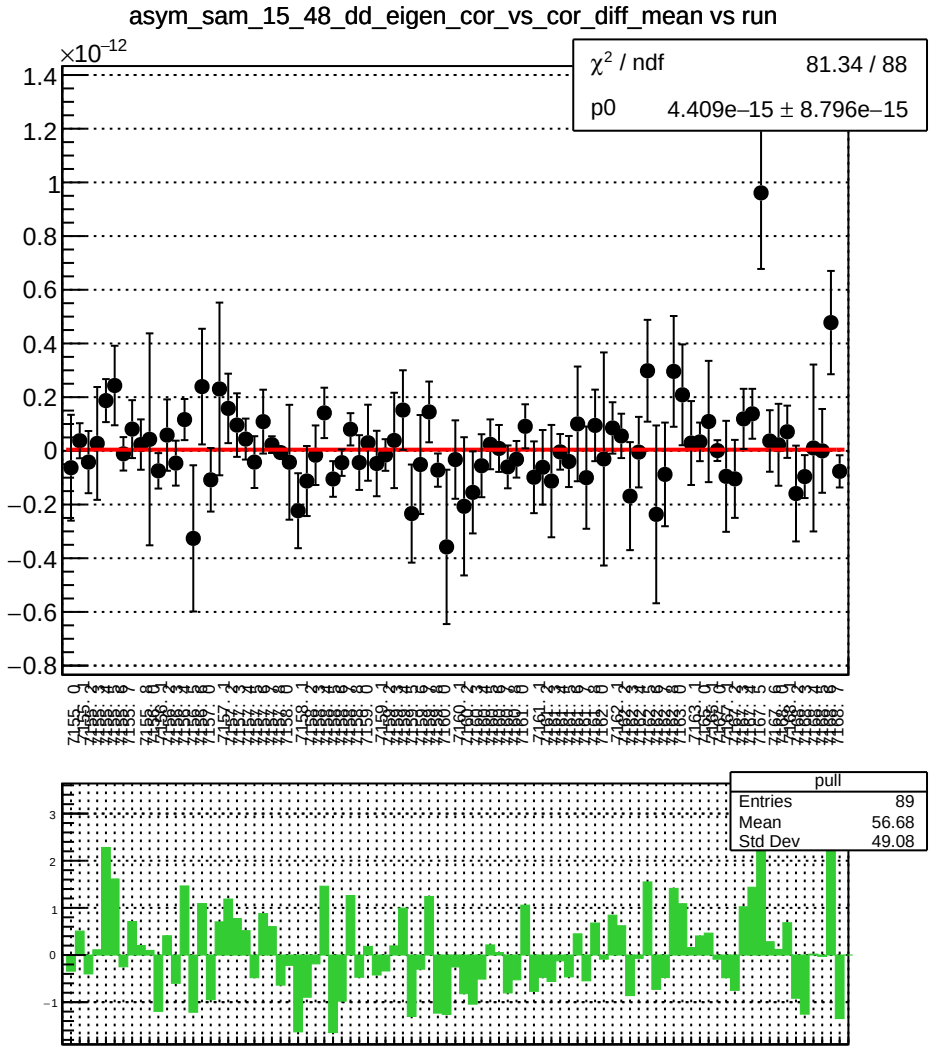

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.376e+04 / 88
p0 0.002718 ± 2.074e−06
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

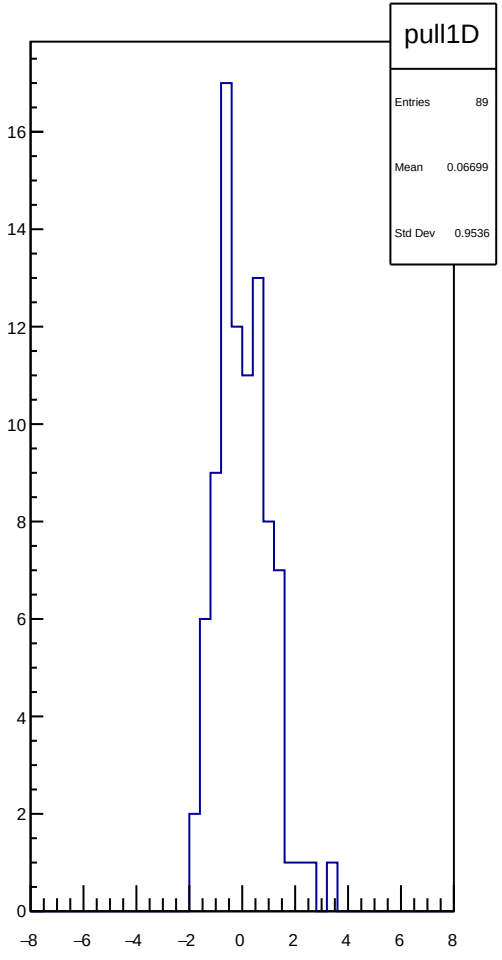

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.38 / 88
p0 0.03302 ± 0.02838
pull
Entries 89
Mean −71.09
Std Dev 0
pull1D
Entries 89
Mean −0.02565
Std Dev 0.8952

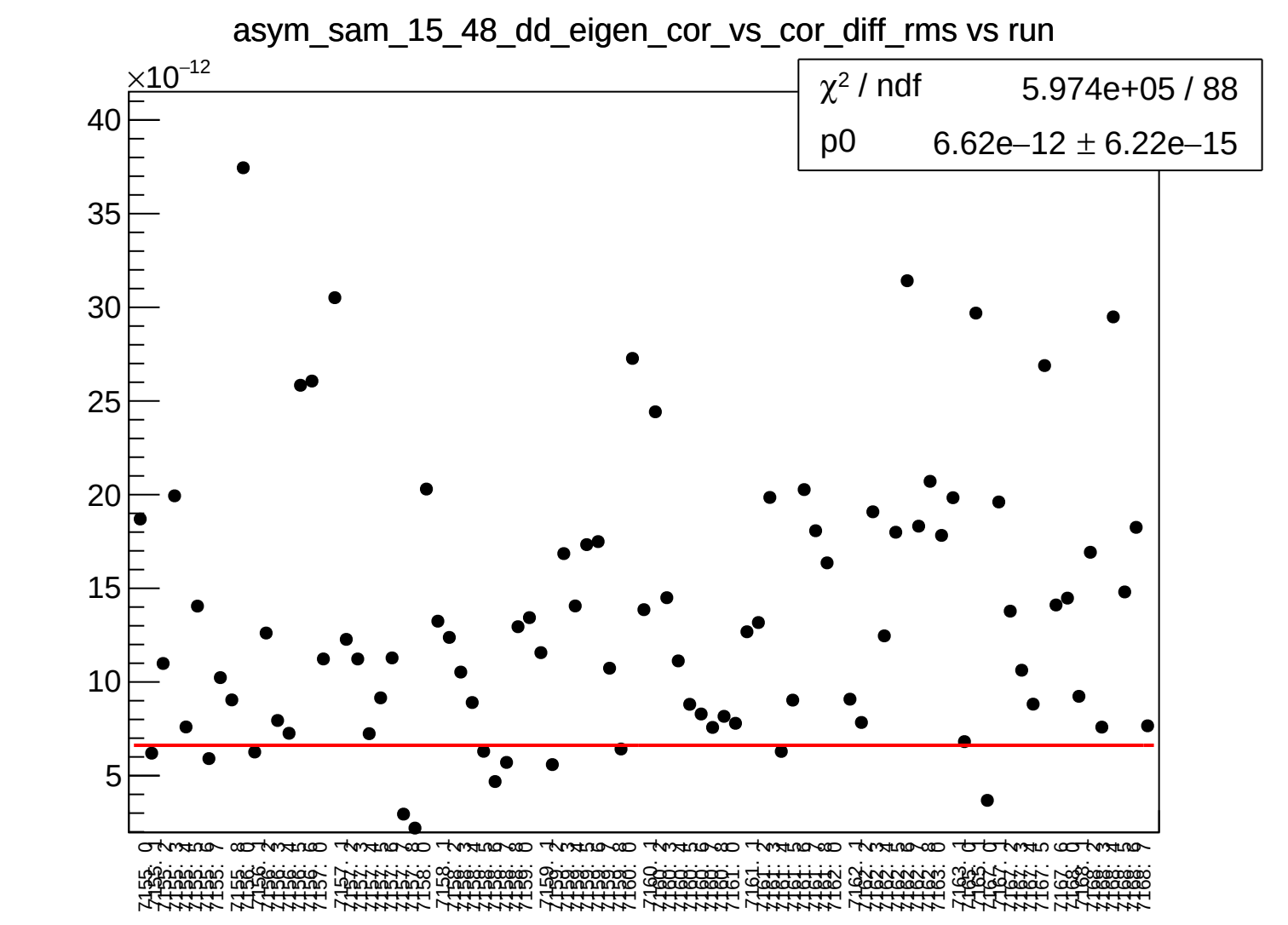

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.025e+05 / 88
p0 25.6 ± 0.02006
80
70
60
50
40
30
20

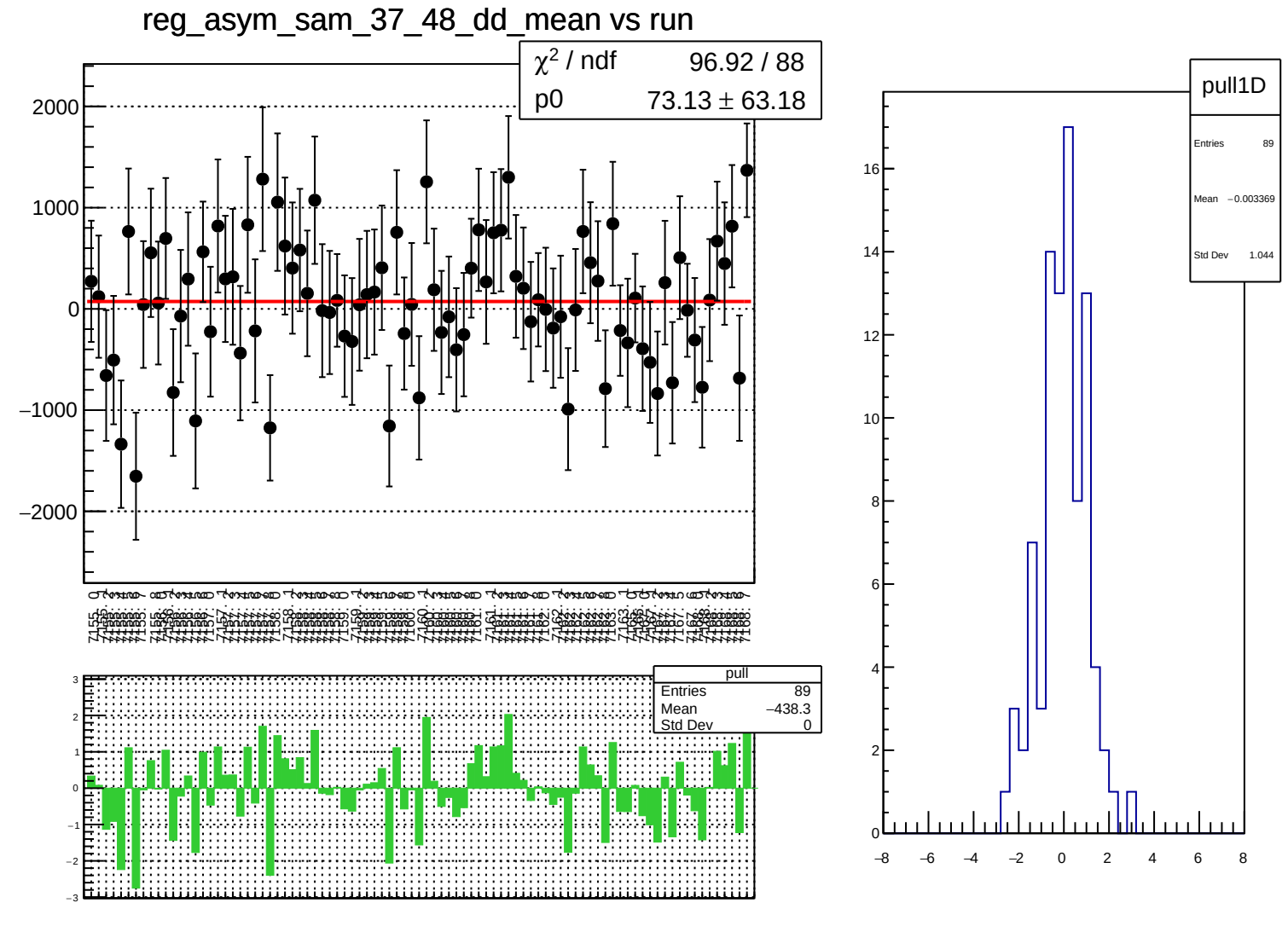

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.38 / 88
p0 0.03302 ± 0.02838
pull
Entries 89
Mean −71.09
Std Dev 0
pull1D
Entries 89
Mean −0.02565
Std Dev 0.8952

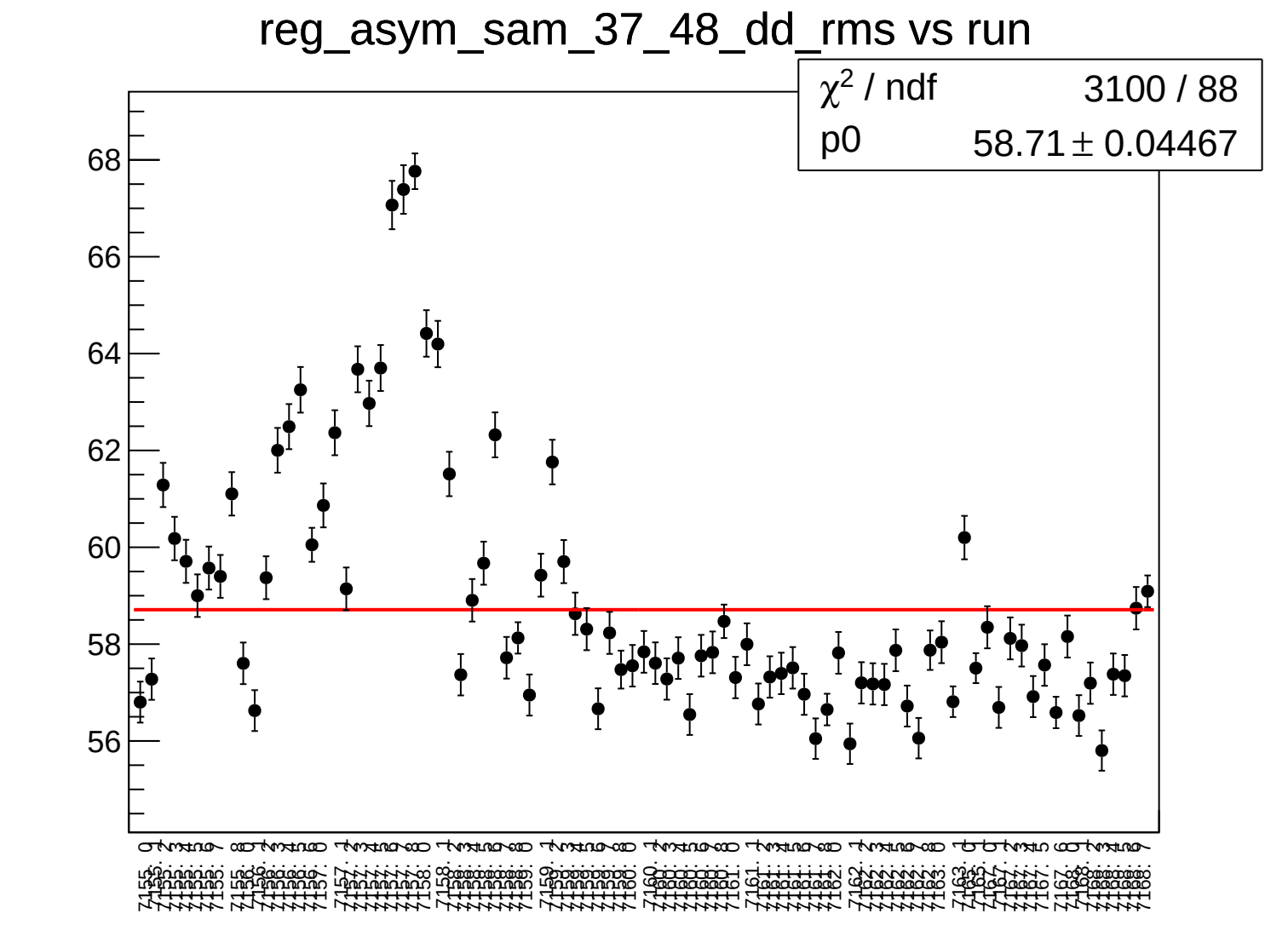

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.025e+05 / 88
p0 25.6 ± 0.02006
80
70
60
50
40
30
20

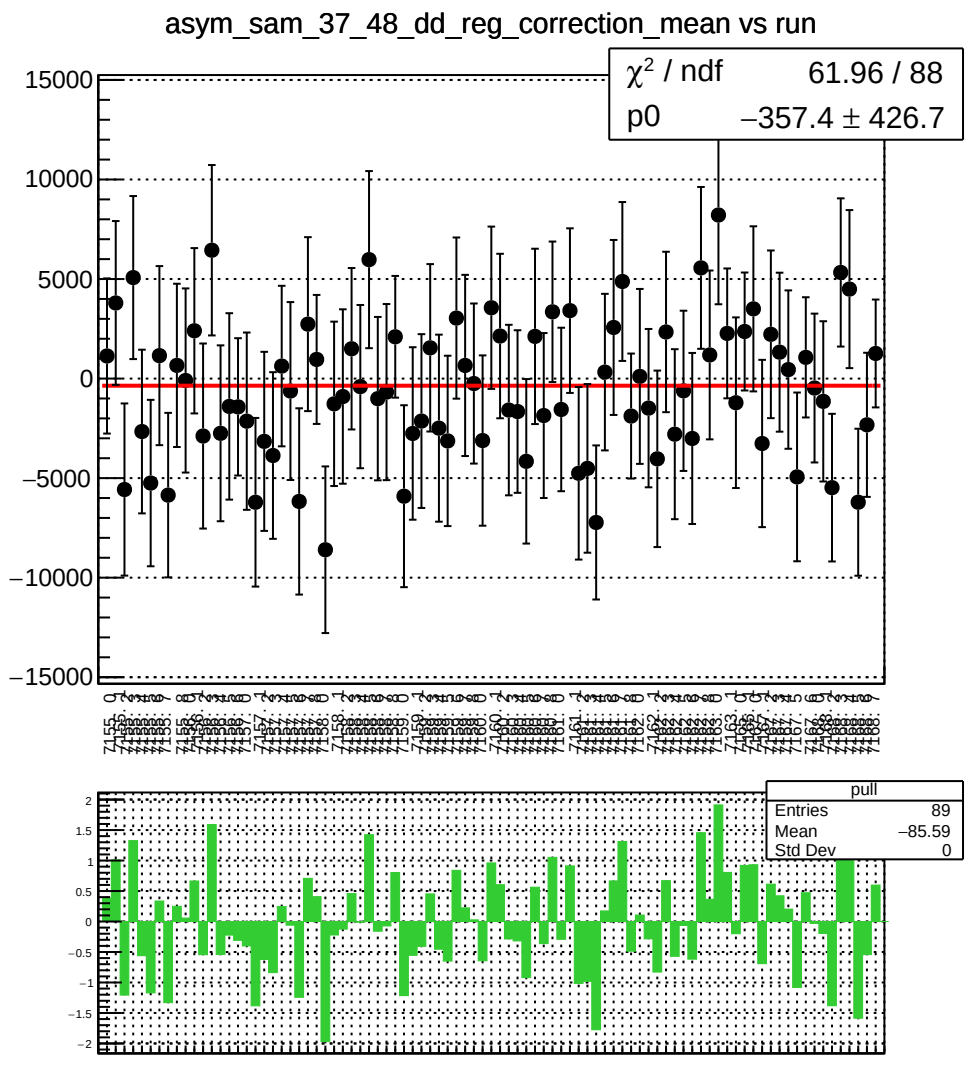

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.34 / 88
p0 4.409e−15 ± 8.796e−15
pull
Entries 89
Mean 56.68
Std Dev 49.08

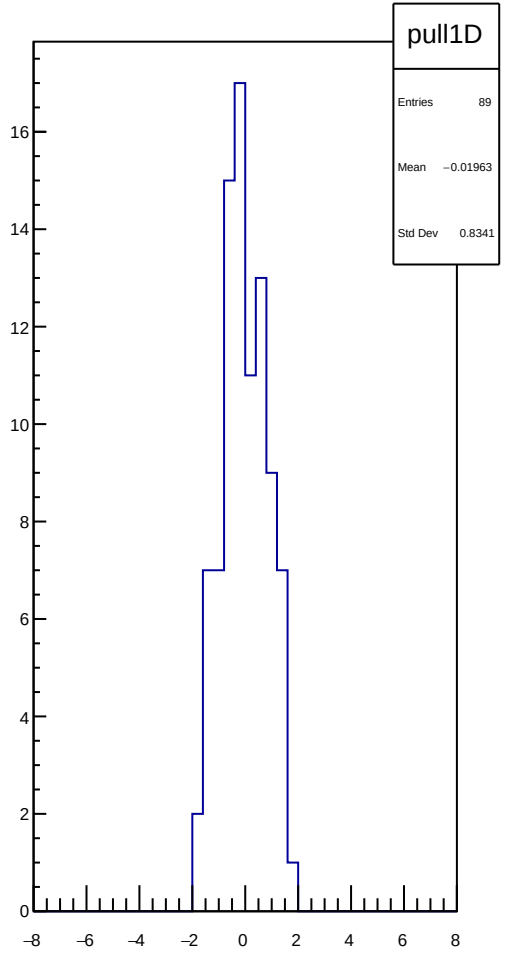

pull1D
Entries 89
Mean 0.06699
Std Dev 0.9536

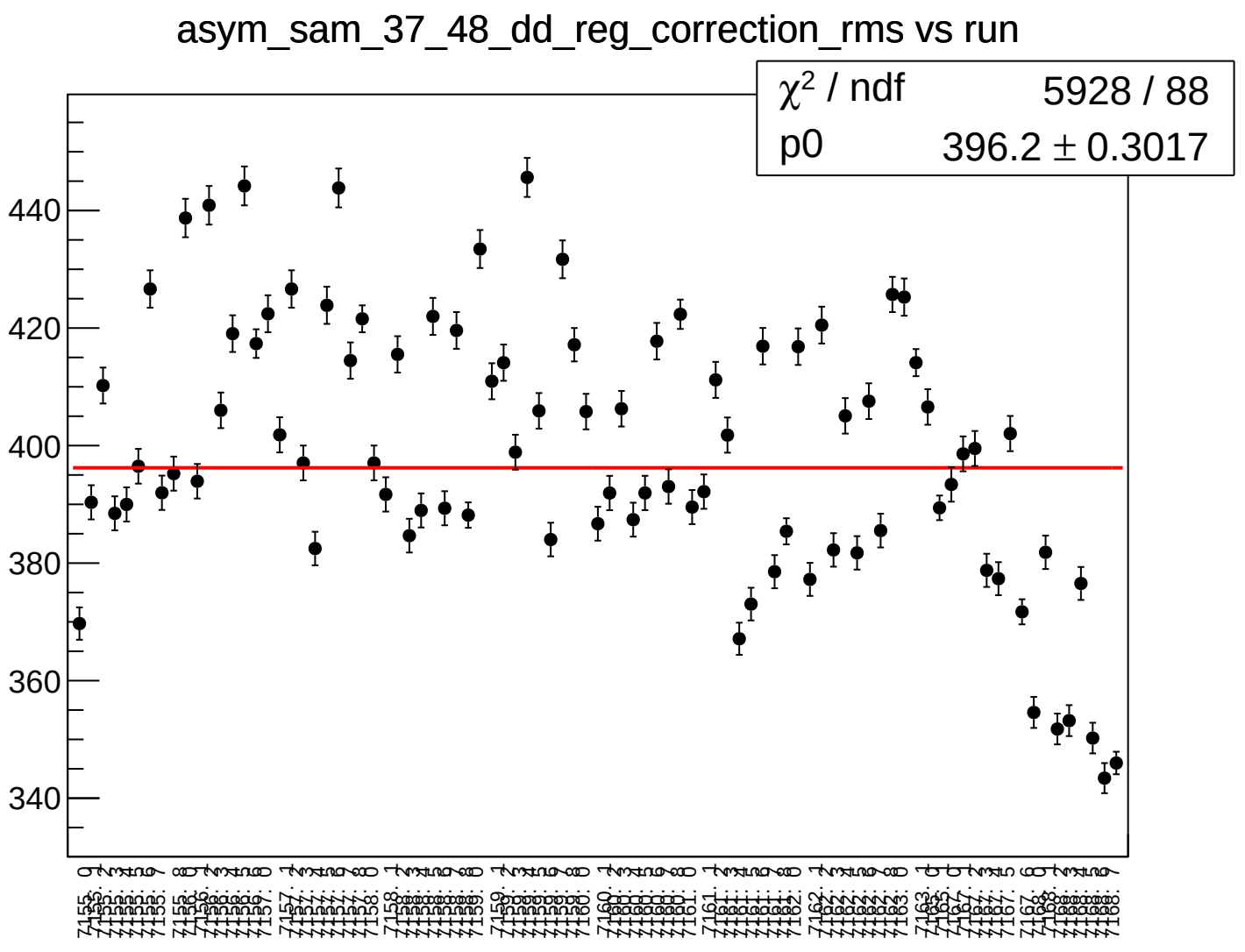

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.974e+05 / 88
p0 6.62e−12 ± 6.22e−15
40
35
30
25
20
15
10
5

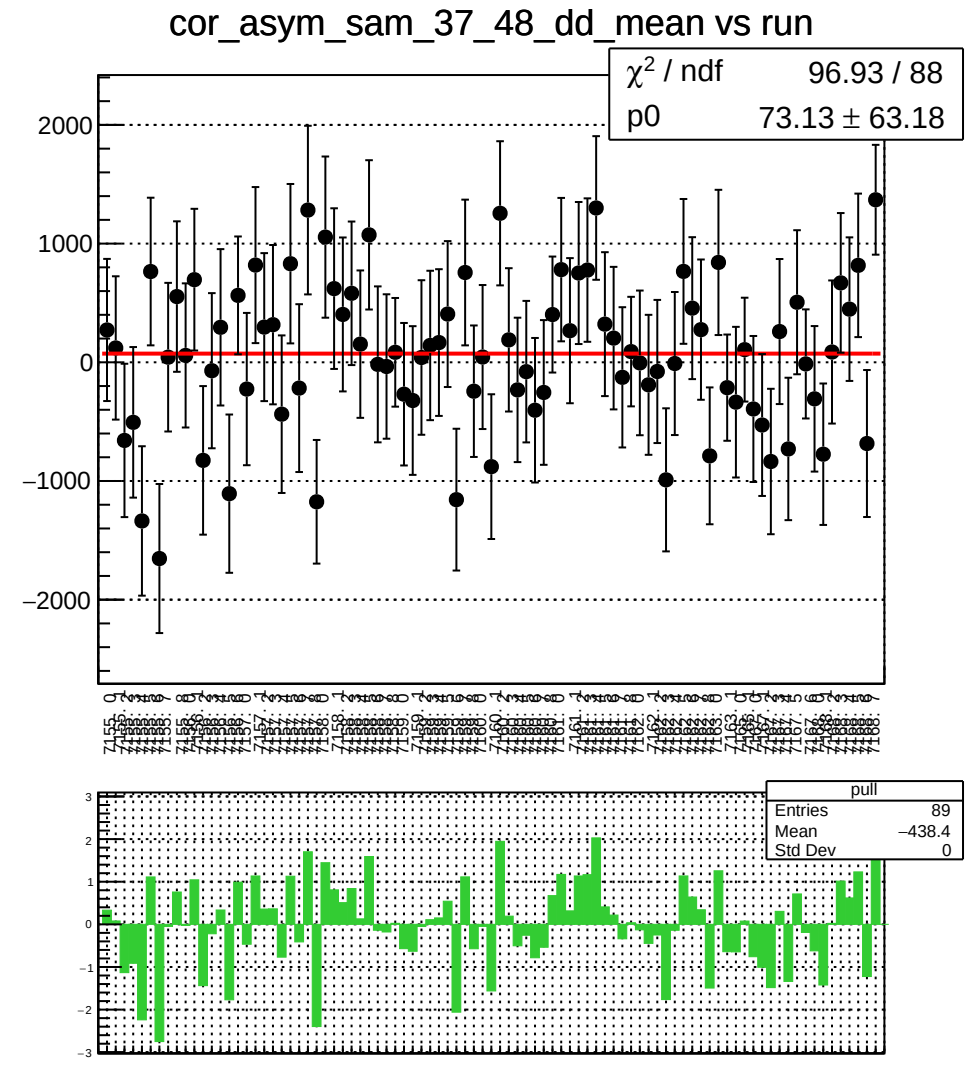

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.92 / 88
p0 73.13 ± 63.18
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −438.3
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.003369
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

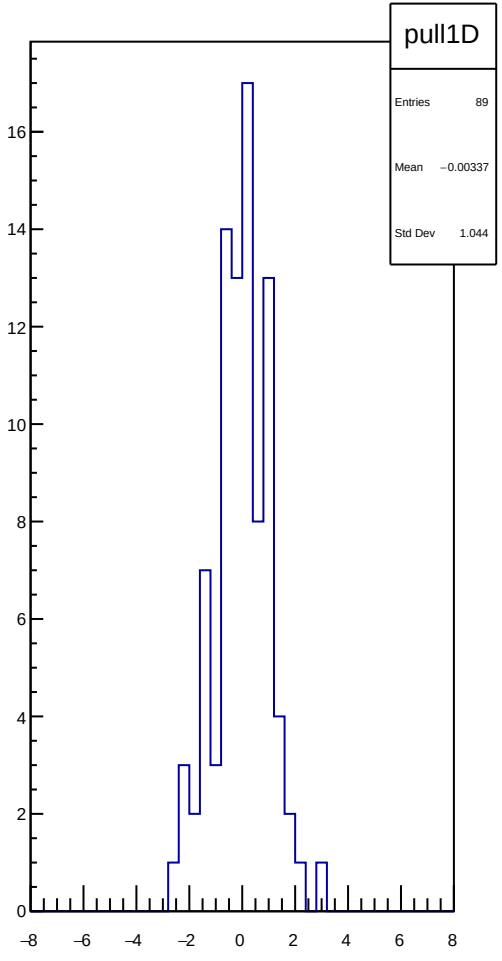

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 3100 / 88
p0 58.71 ± 0.04467
68
66
64
62
60
58
56

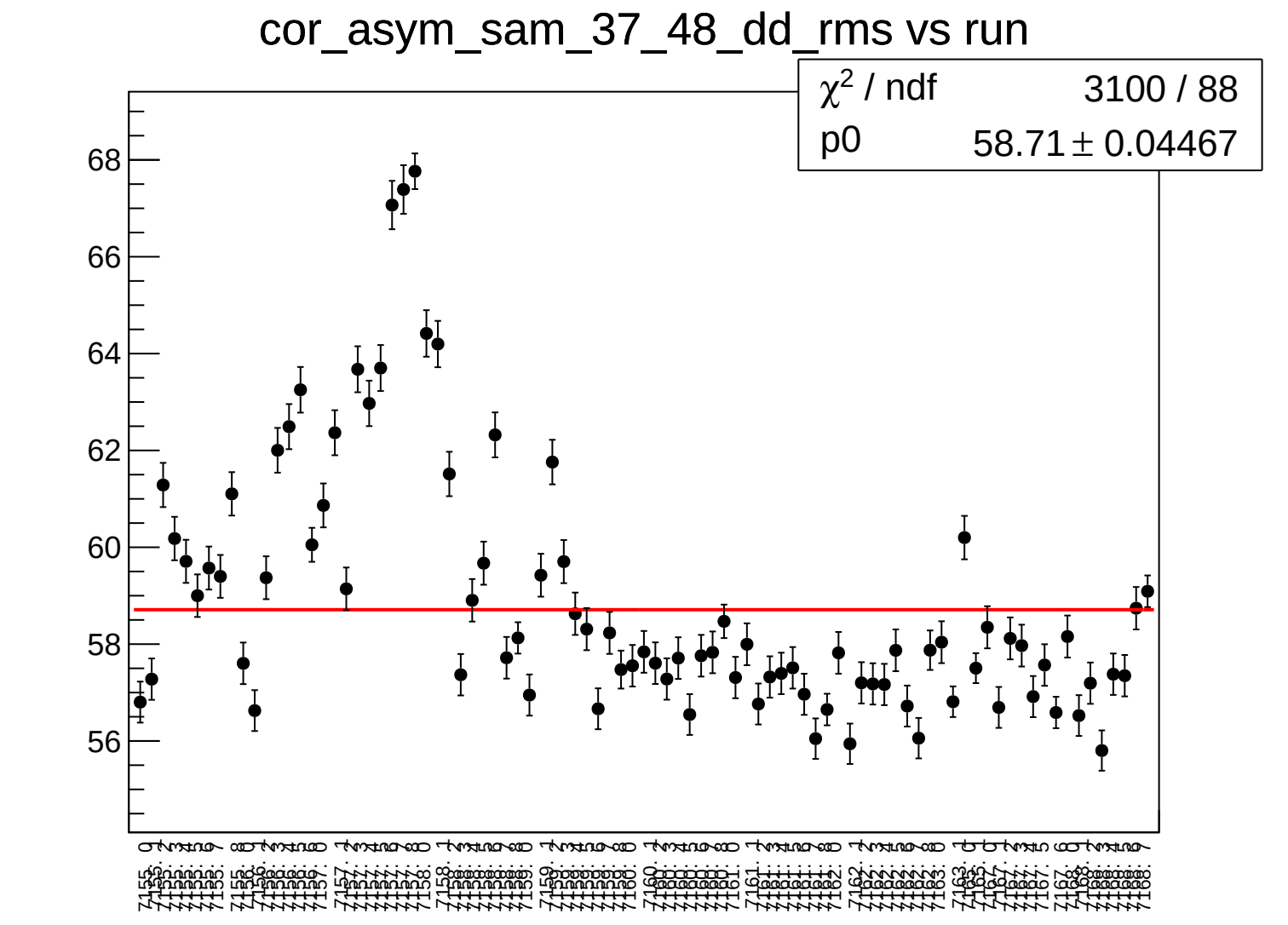

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 61.96 / 88
p0 −357.4 ± 426.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −85.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

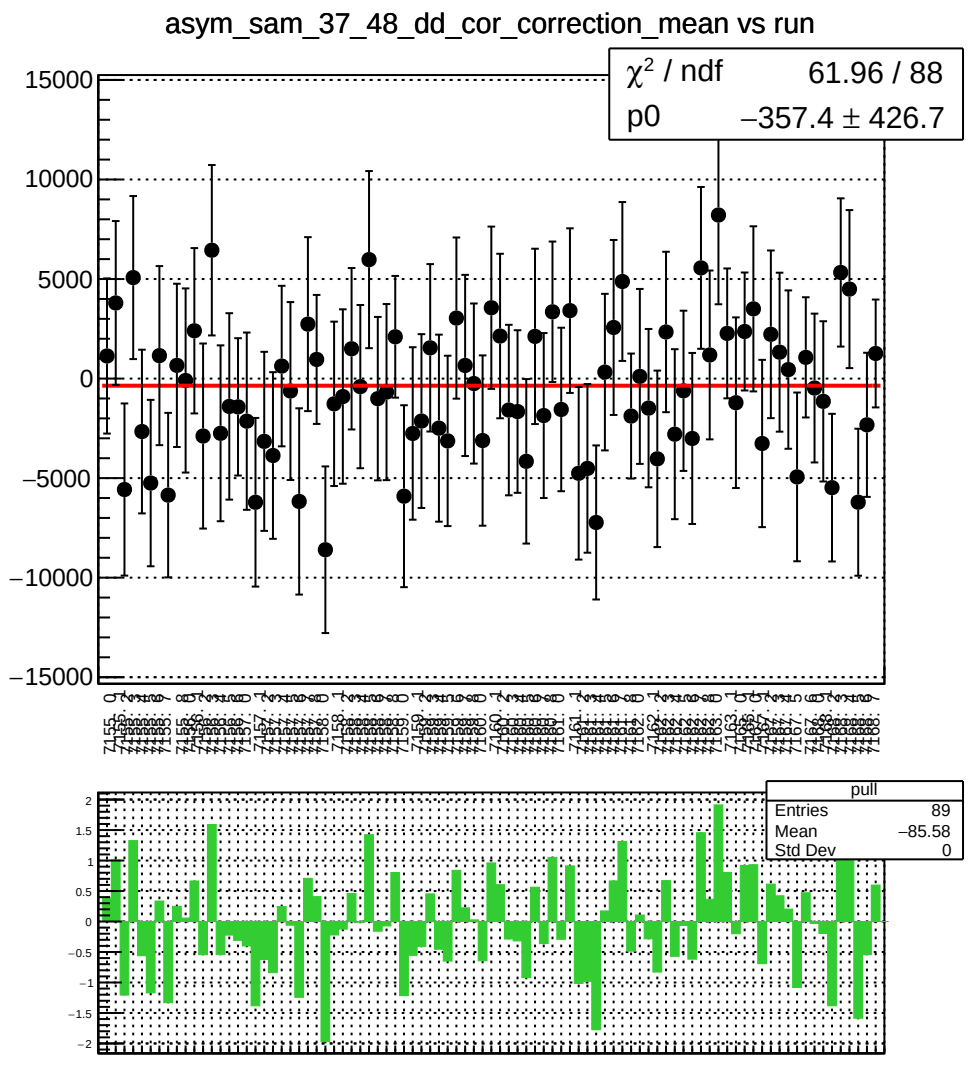

pull1D
Entries 89
Mean −0.01963
Std Dev 0.8341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

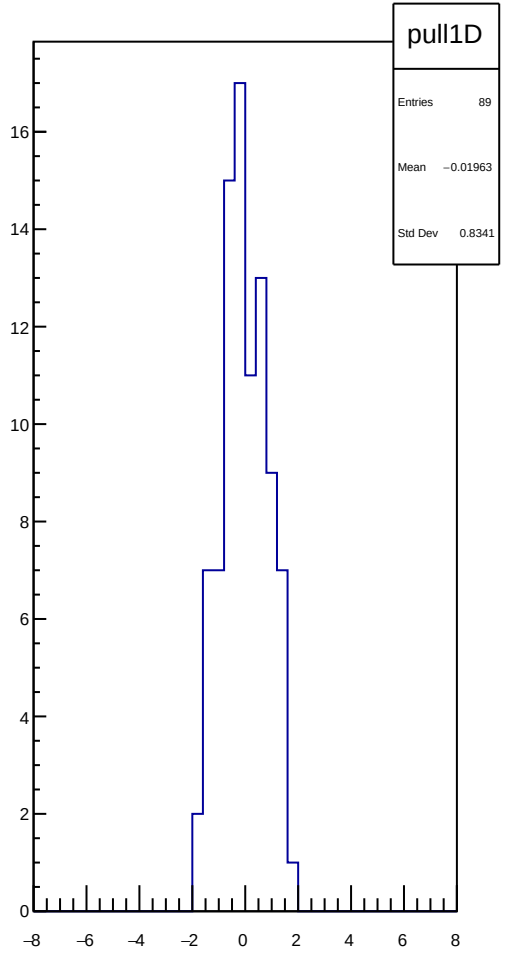

asym_sam_37_48_dd_reg_correction_rms vs run
χ^2 / ndf 5928 / 88
p0 396.2 ± 0.3017
440
420
400
380
360
340

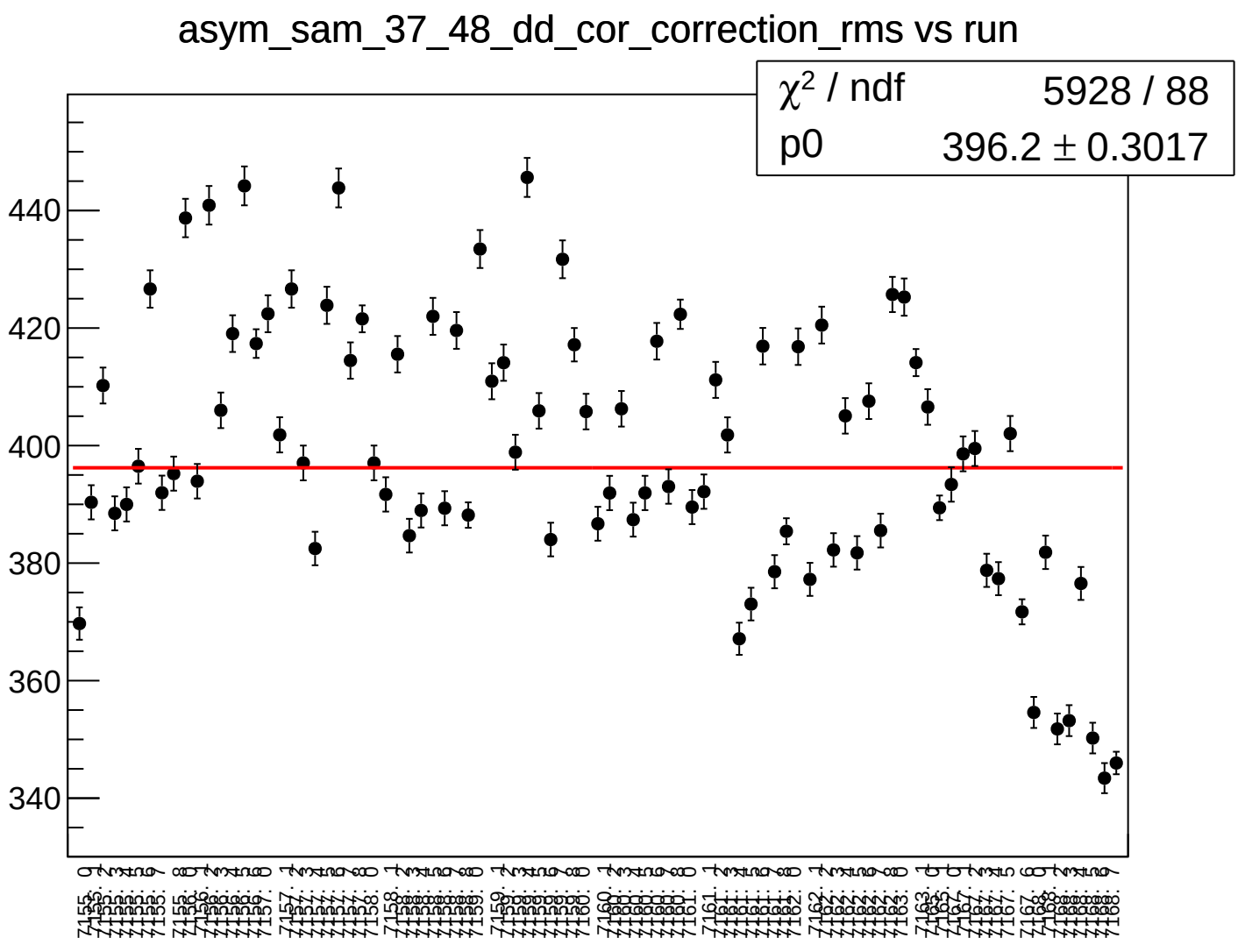

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.93 / 88
p0 73.13 ± 63.18
2000
1000
0
−1000
−2000
pull
Entries 89
Mean −438.4
Std Dev 0
3
2
1
0
−1
−2
−3

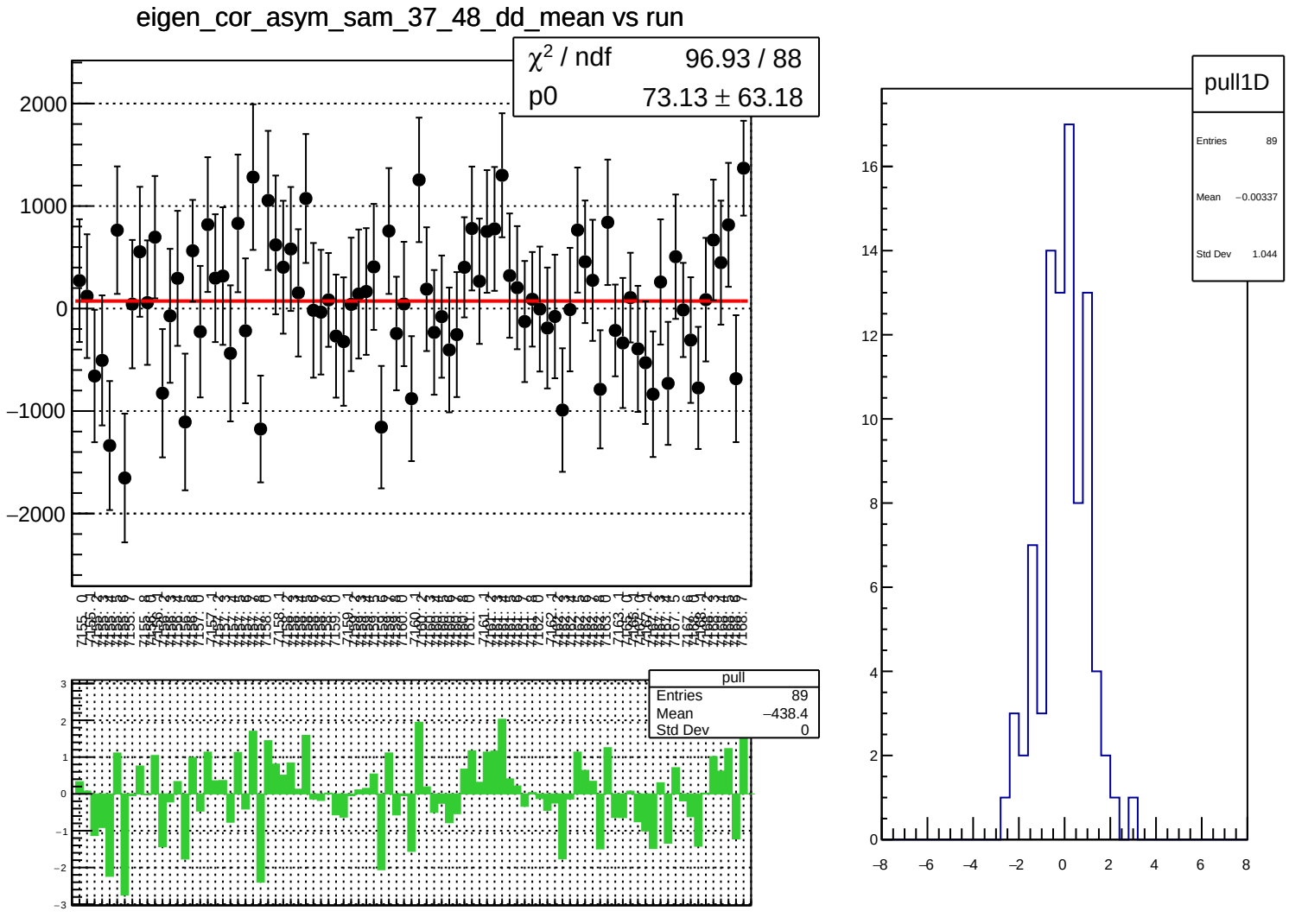

pull1D
Entries 89
Mean −0.00337
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

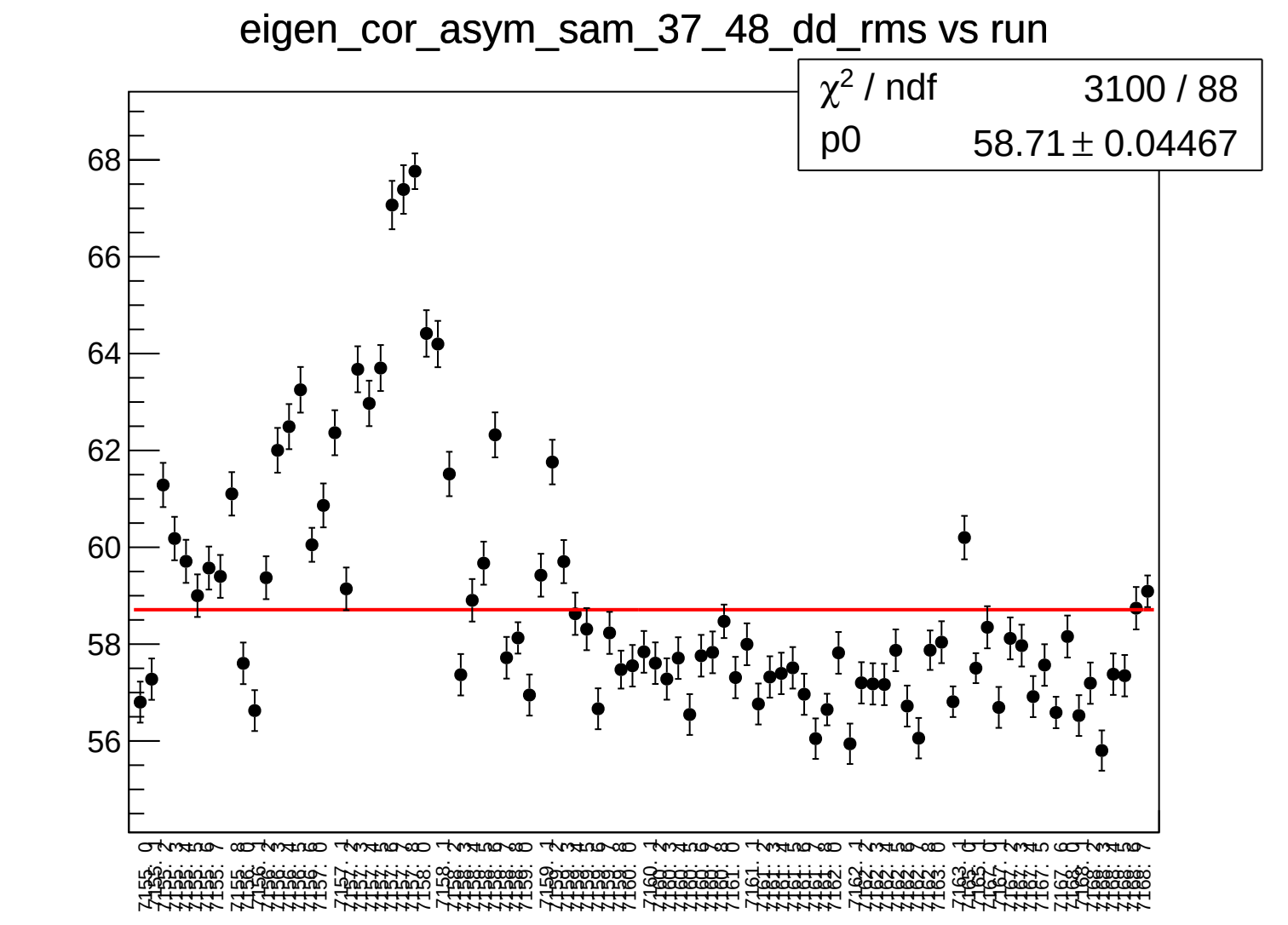

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3100 / 88
p0 58.71 ± 0.04467
68
66
64
62
60
58
56

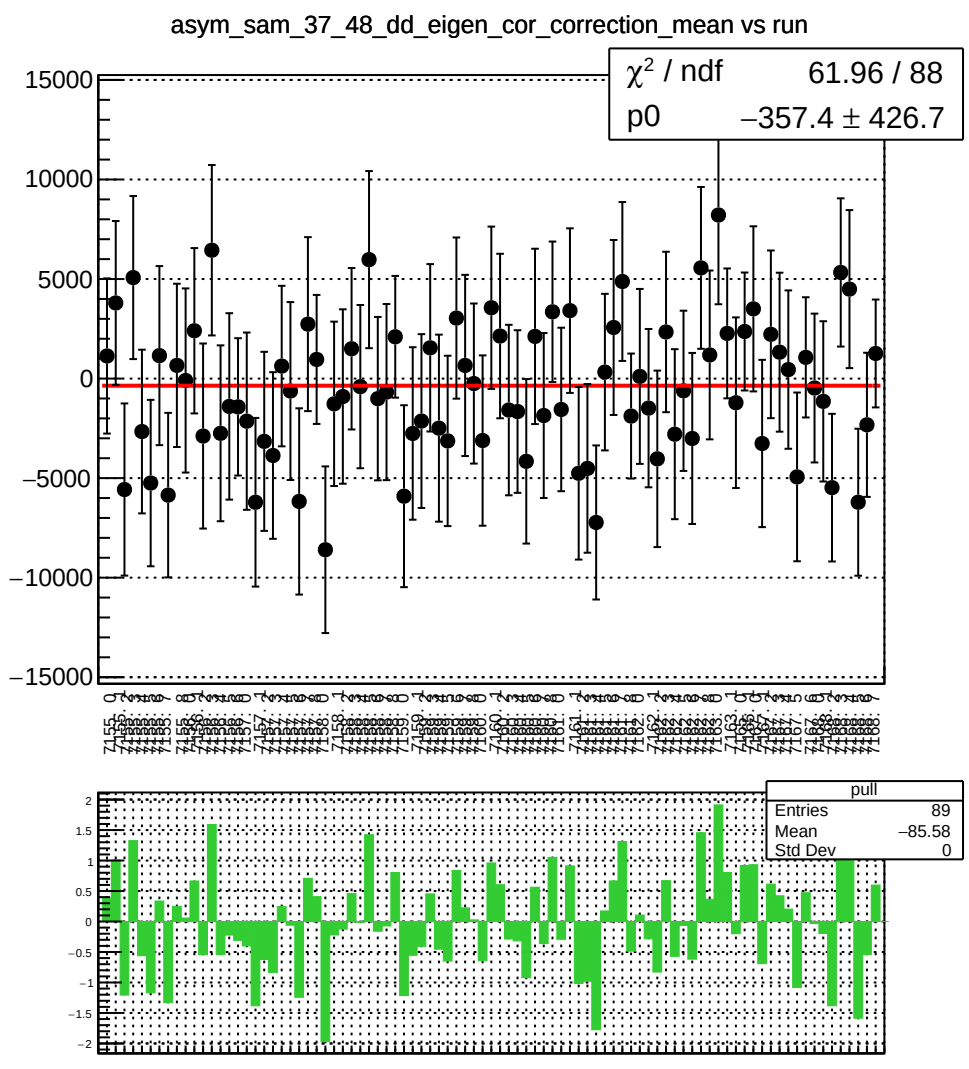

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 61.96 / 88
p0 −357.4 ± 426.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −85.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

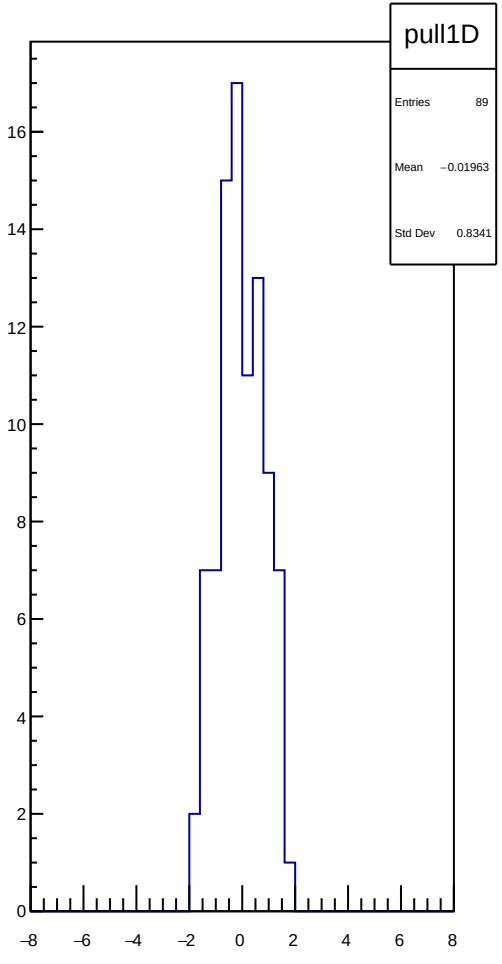

pull1D
Entries 89
Mean −0.01963
Std Dev 0.8341
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

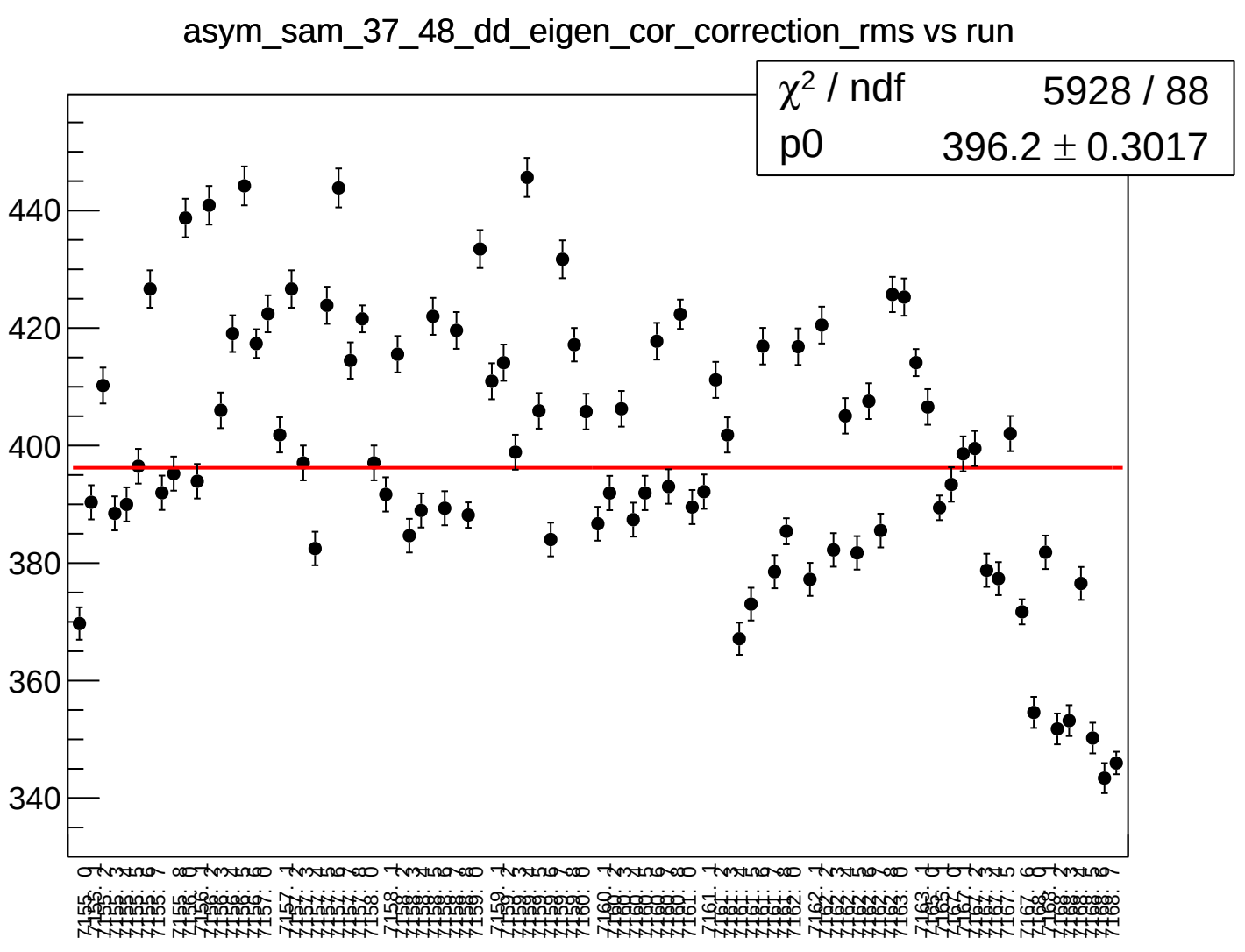

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 5928 / 88
p0 396.2 ± 0.3017
440
420
400
380
360
340

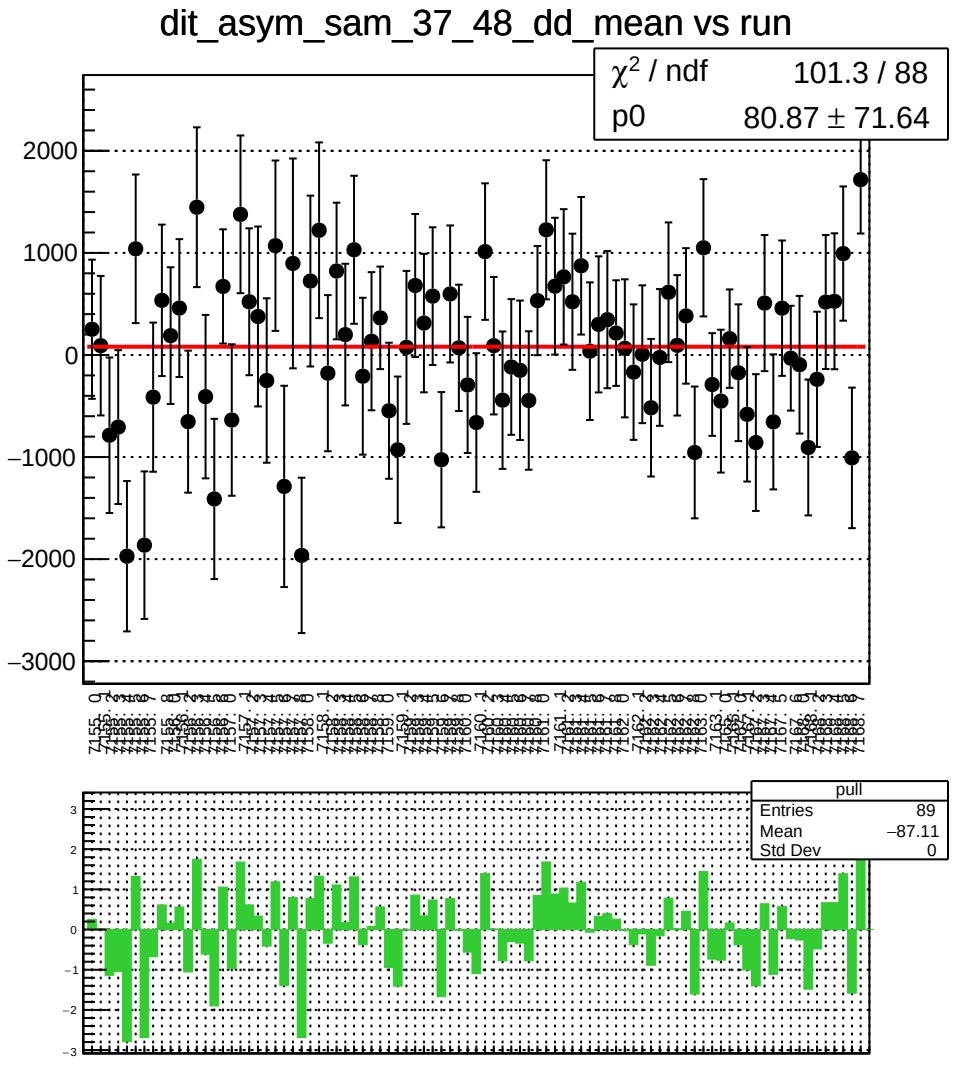

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 96.93 / 88
p0 73.13 ± 63.18
pull
Entries 89
Mean −438.4
Std Dev 0
pull1D
Entries 89
Mean −0.00337
Std Dev 1.044

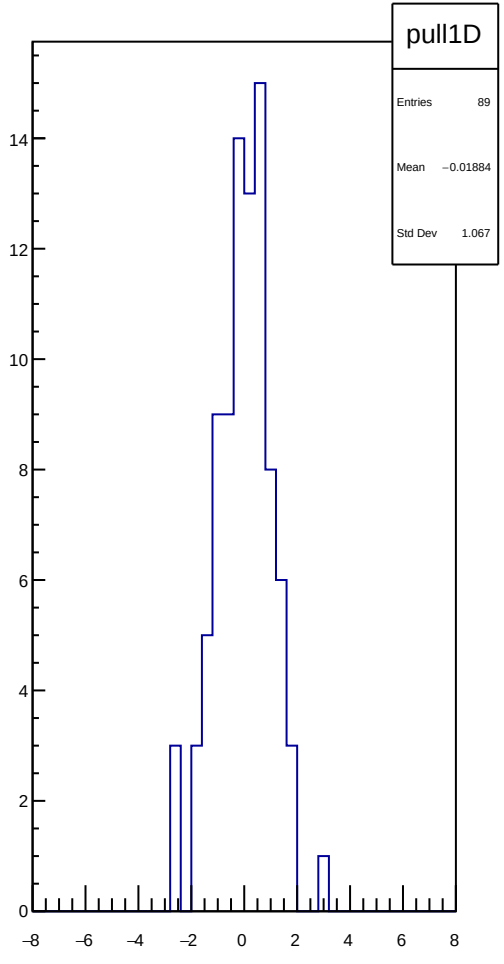

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 3100 / 88
p0 58.71 ± 0.04467
68
66
64
62
60
58
56

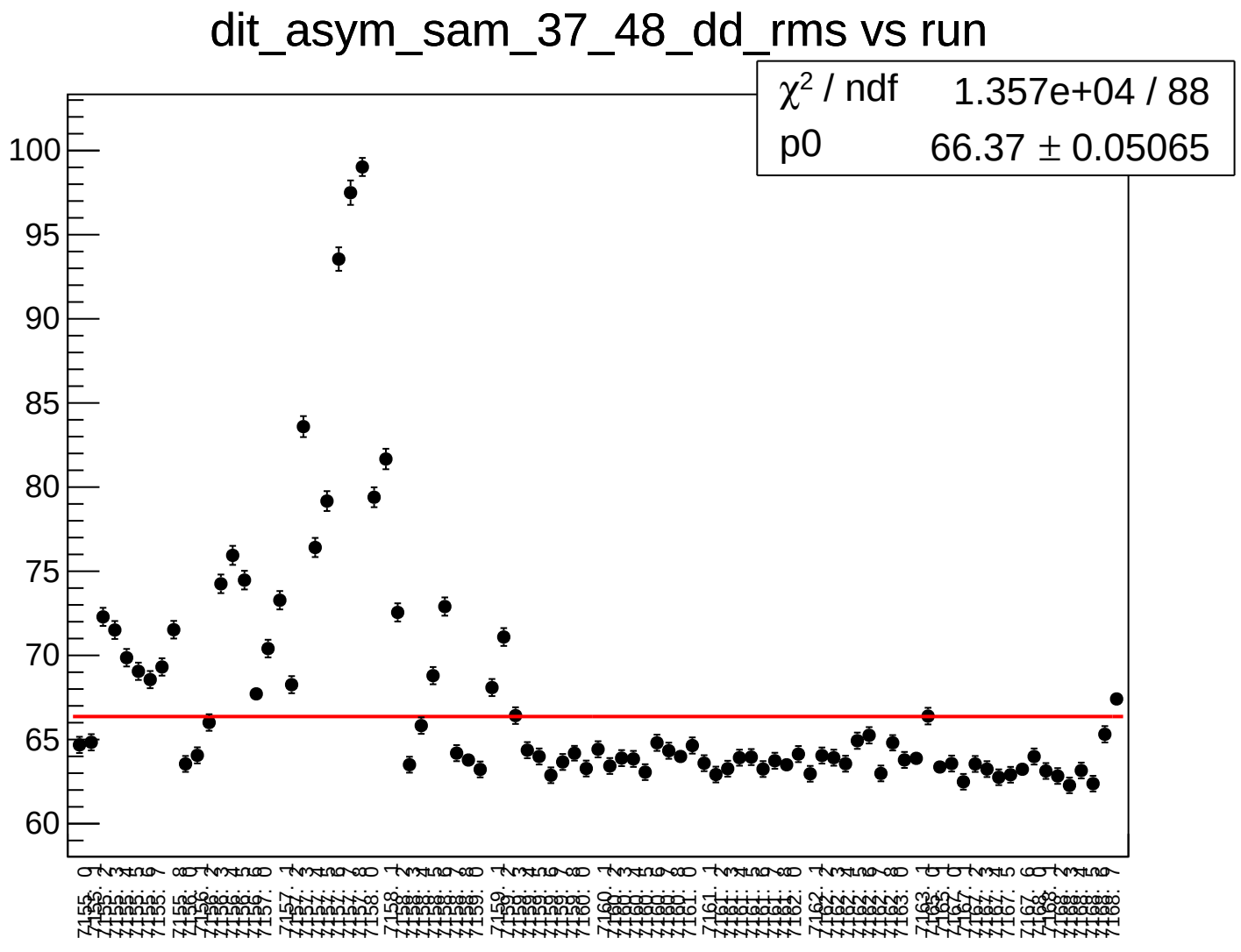

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 61.96 / 88
p0 −357.4 ± 426.7
pull
Entries 89
Mean −85.58
Std Dev 0

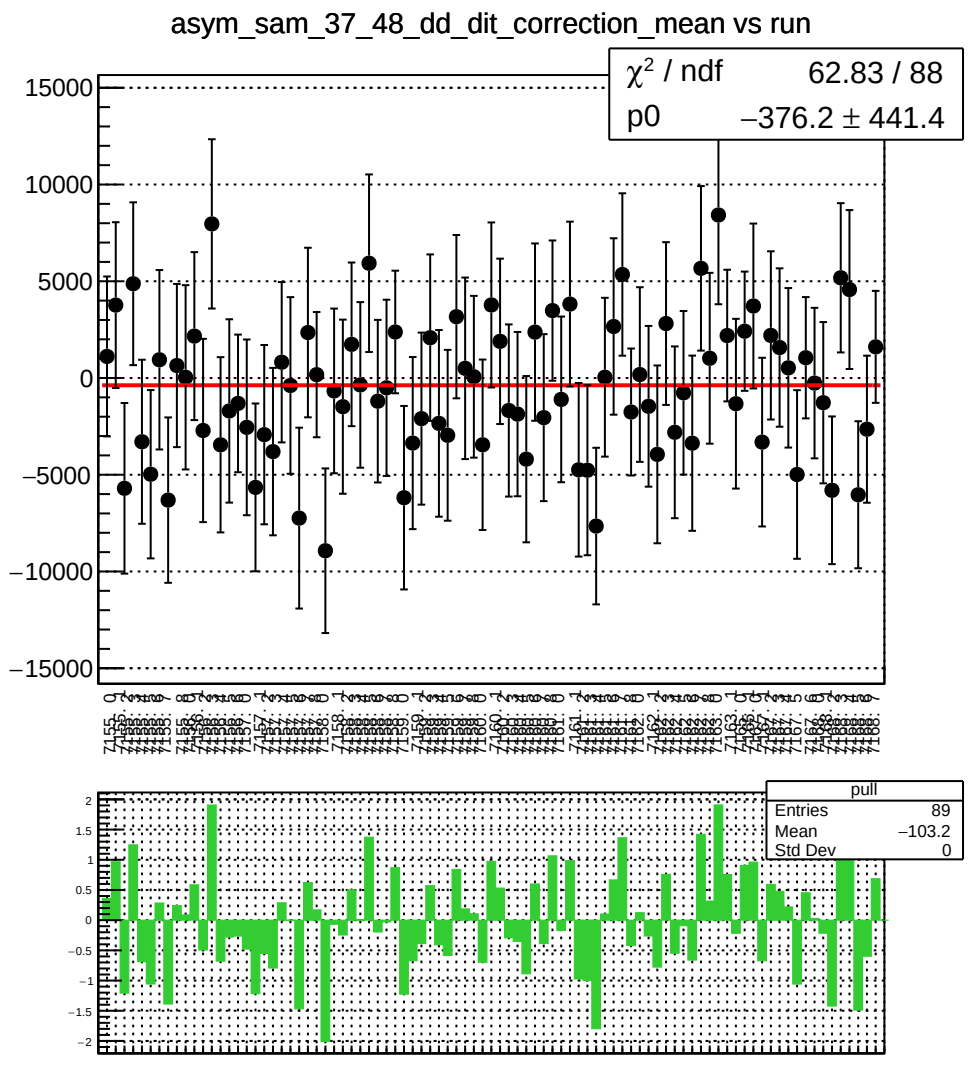

pull1D
Entries 89
Mean −0.01963
Std Dev 0.8341

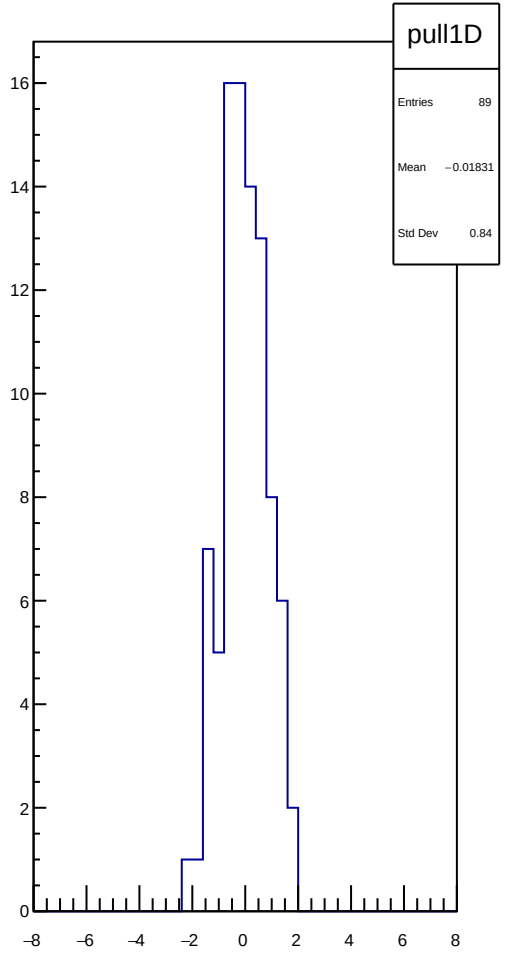

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 5928 / 88
p0 396.2 ± 0.3017
440
420
400
380
360
340

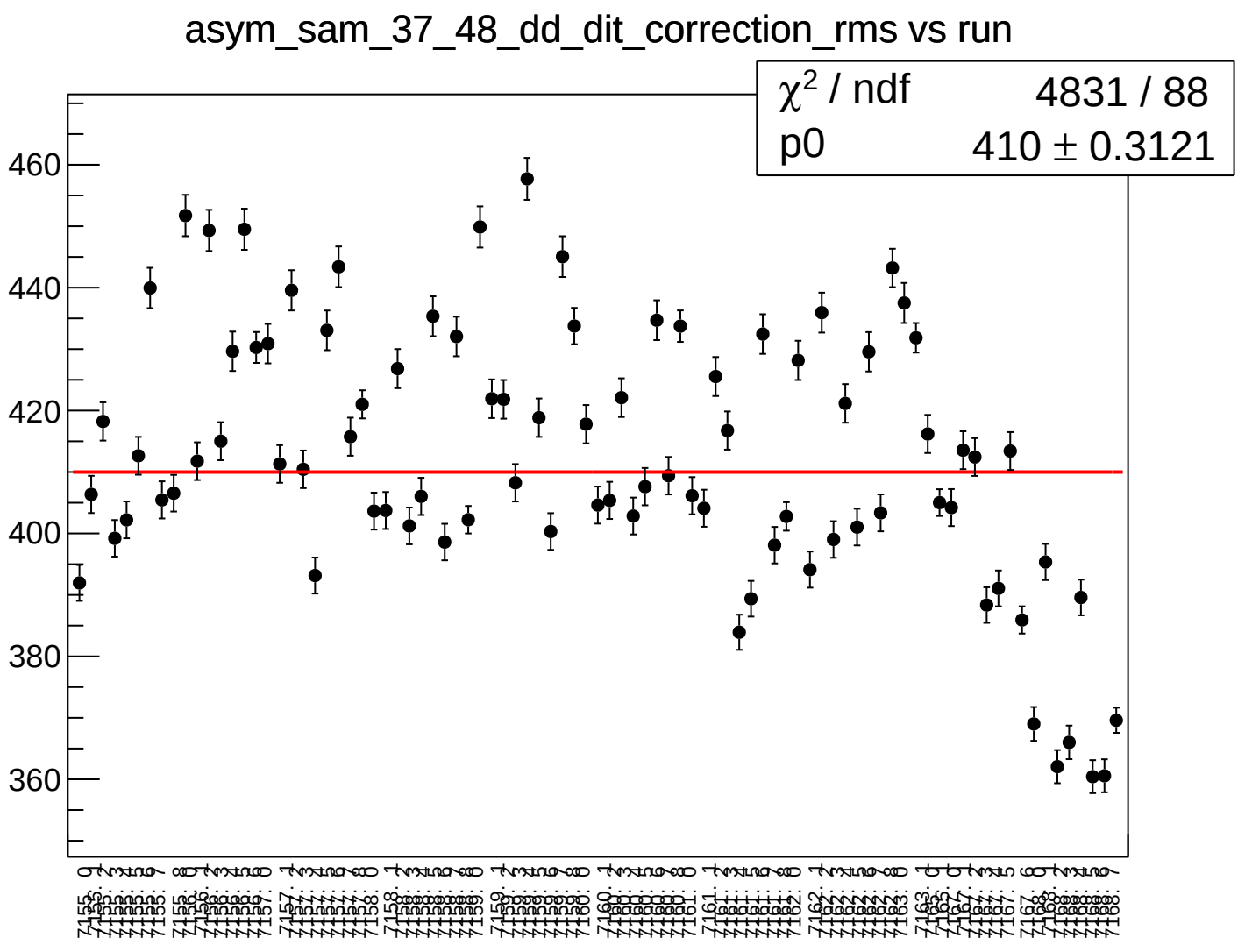

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 101.3 / 88
p0 80.87 ± 71.64
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −87.11
Std Dev 0
3
2
1
0
−1
−2
−3

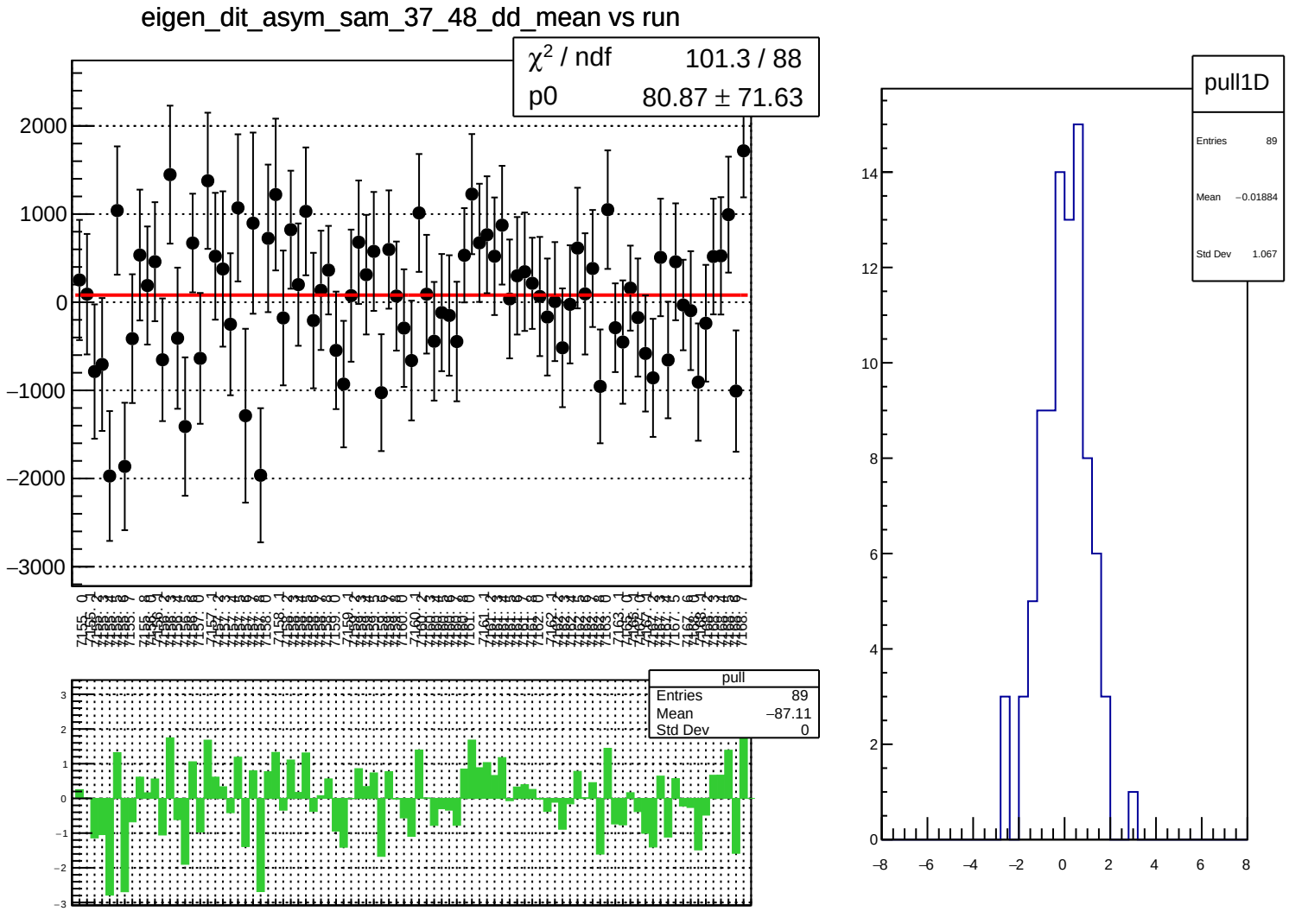

pull1D
Entries 89
Mean −0.01884
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

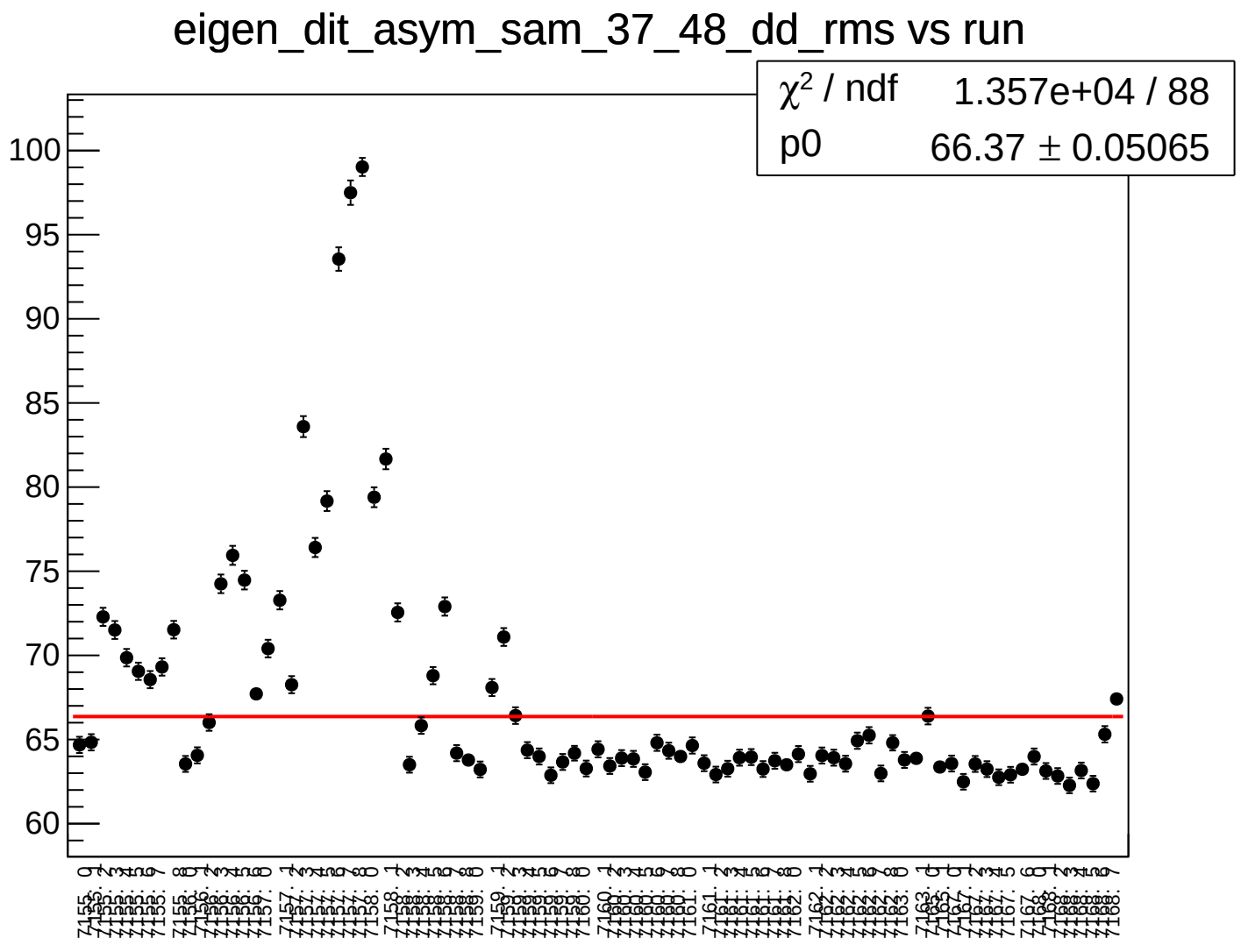

dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.357e+04 / 88
p0 66.37 ± 0.05065
100
95
90
85
80
75
70
65
60

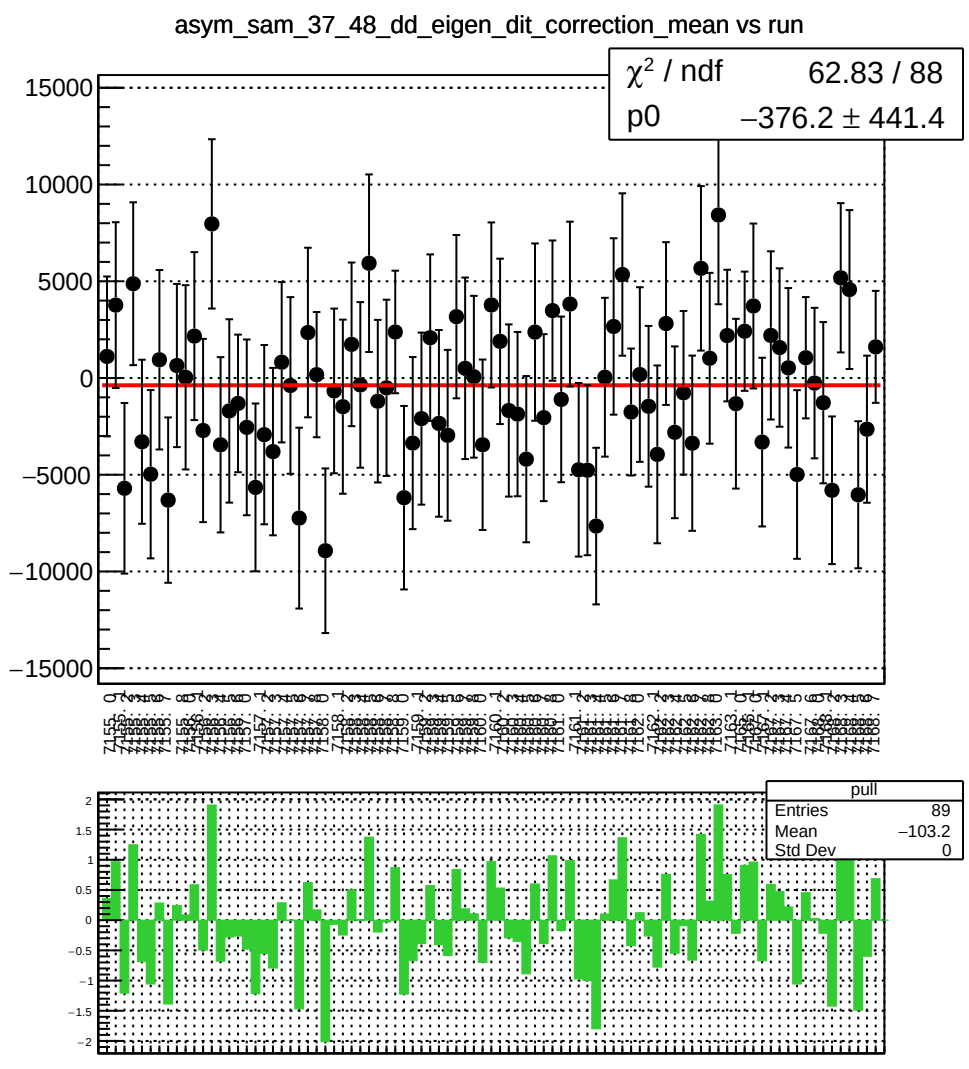

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 62.83 / 88
p0 −376.2 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −103.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

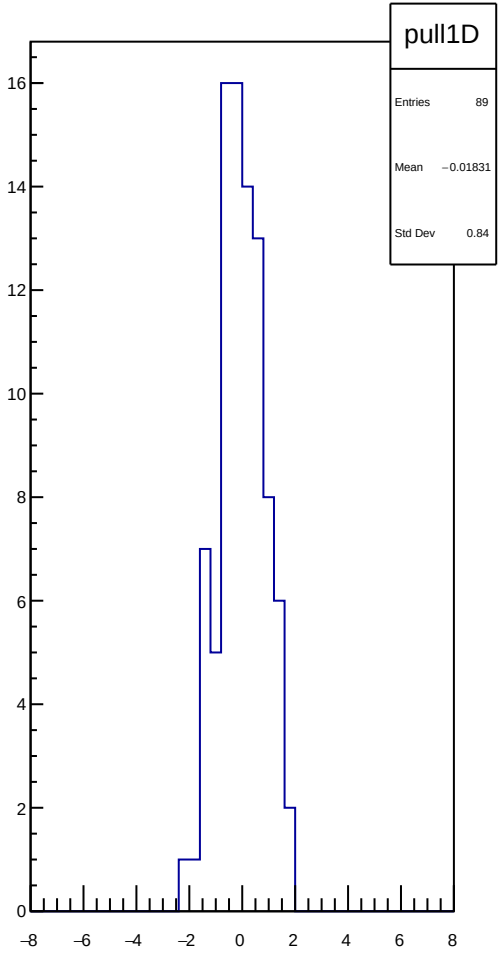

pull1D
Entries 89
Mean −0.01831
Std Dev 0.84
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

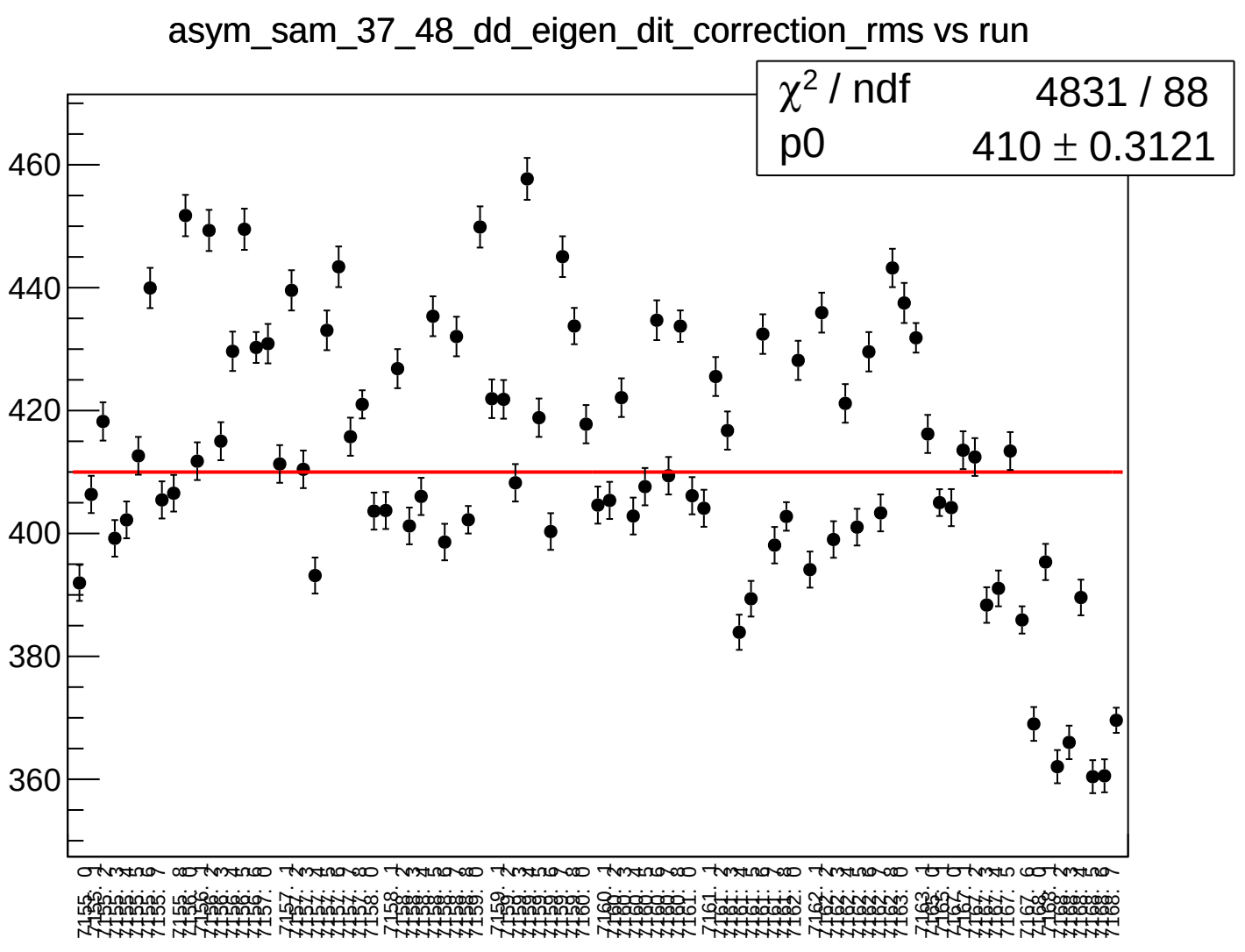

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 4831 / 88
p0 410 ± 0.3121
460
440
420
400
380
360

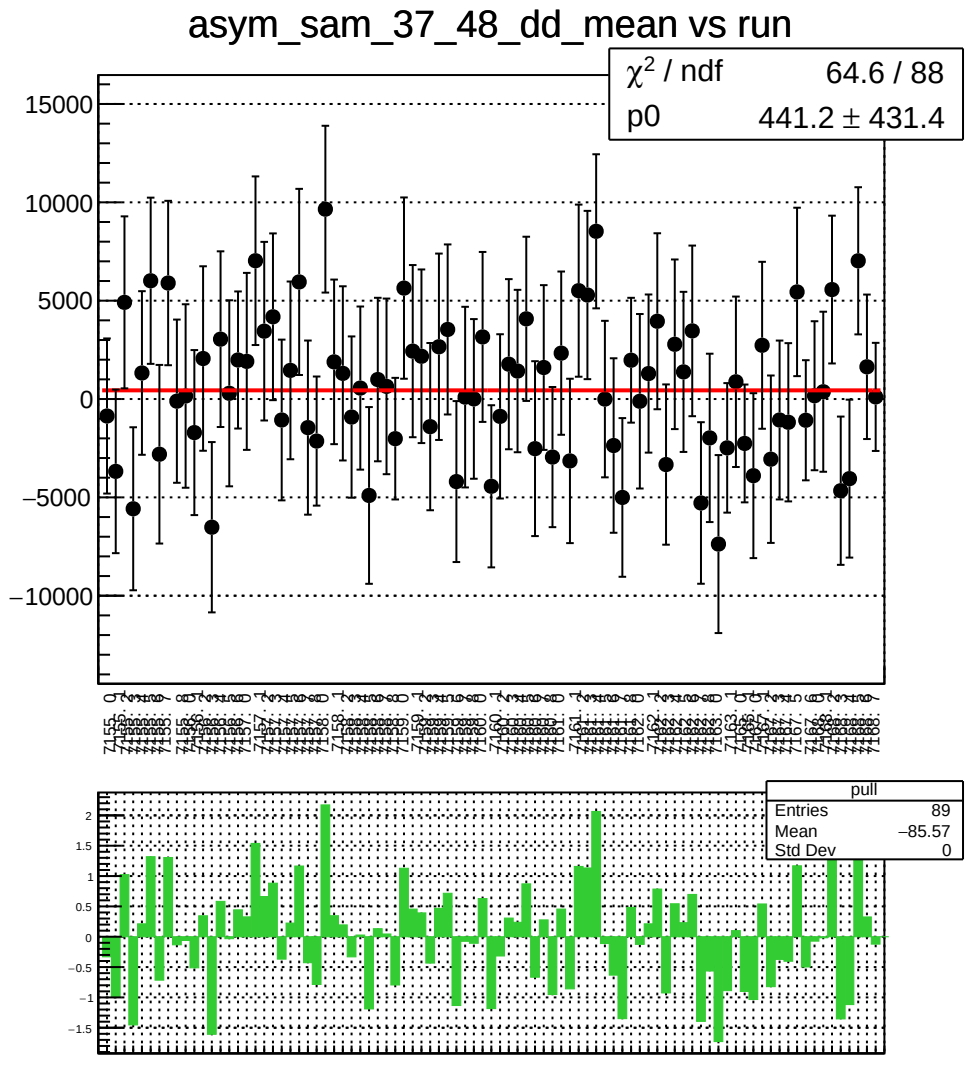

eigen_dit_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 101.3 / 88
p0 80.87 ± 71.63
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −87.11
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean −0.01884
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

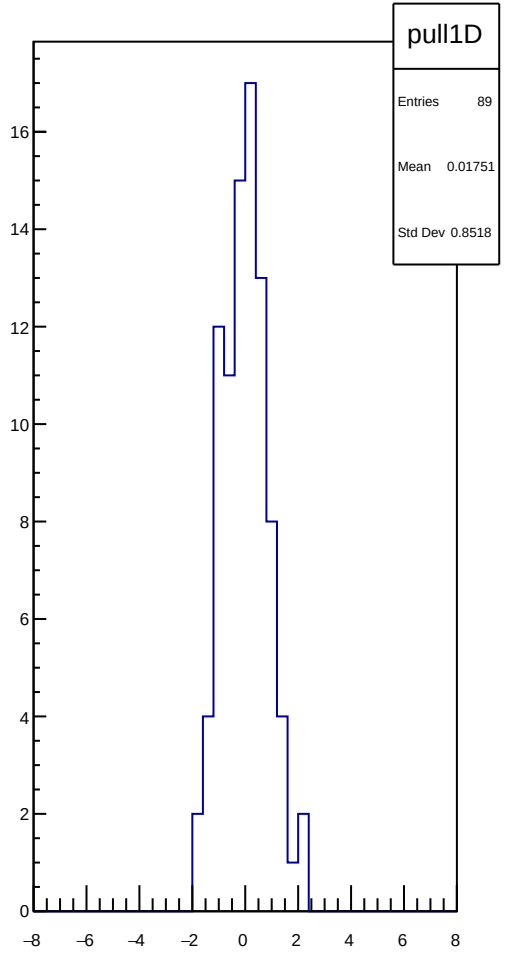

eigen_dit_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.357e+04 / 88
p0 66.37 ± 0.05065
100
95
90
85
80
75
70
65
60

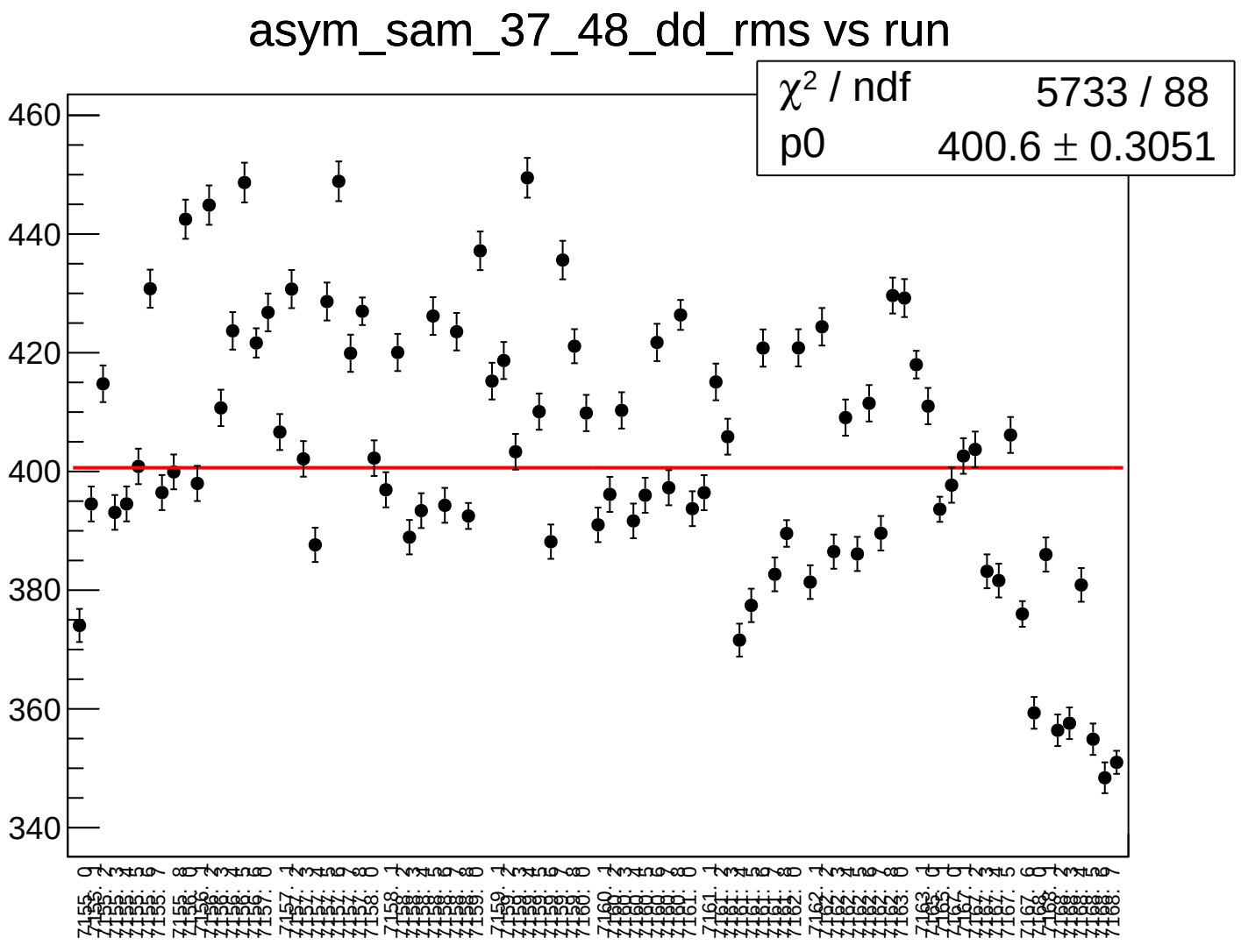

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 62.83 / 88
p0 −376.2 ± 441.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −103.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

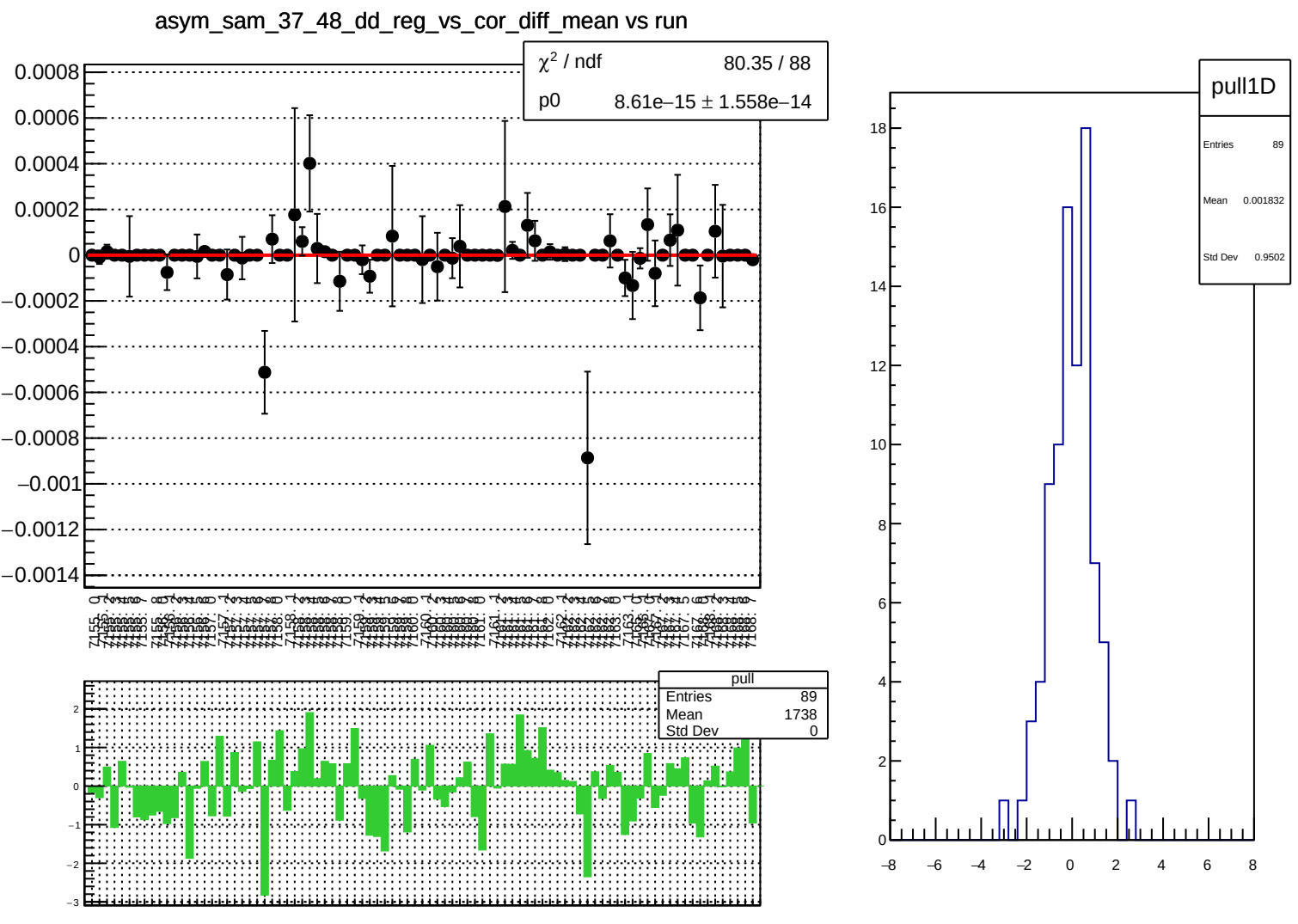

pull1D
Entries 89
Mean −0.01831
Std Dev 0.84
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

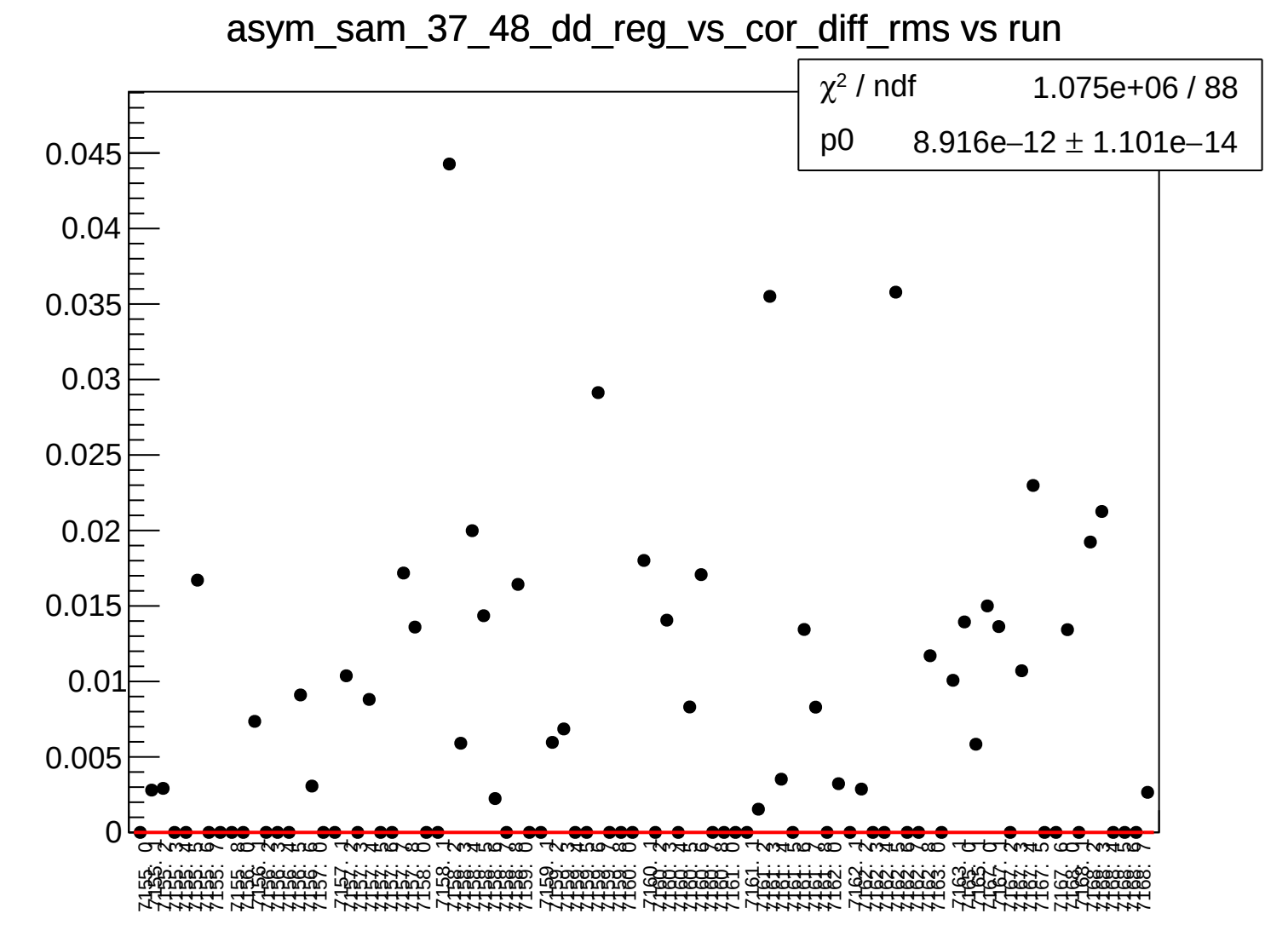

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 4831 / 88
p0 410 ± 0.3121
460
440
420
400
380
360

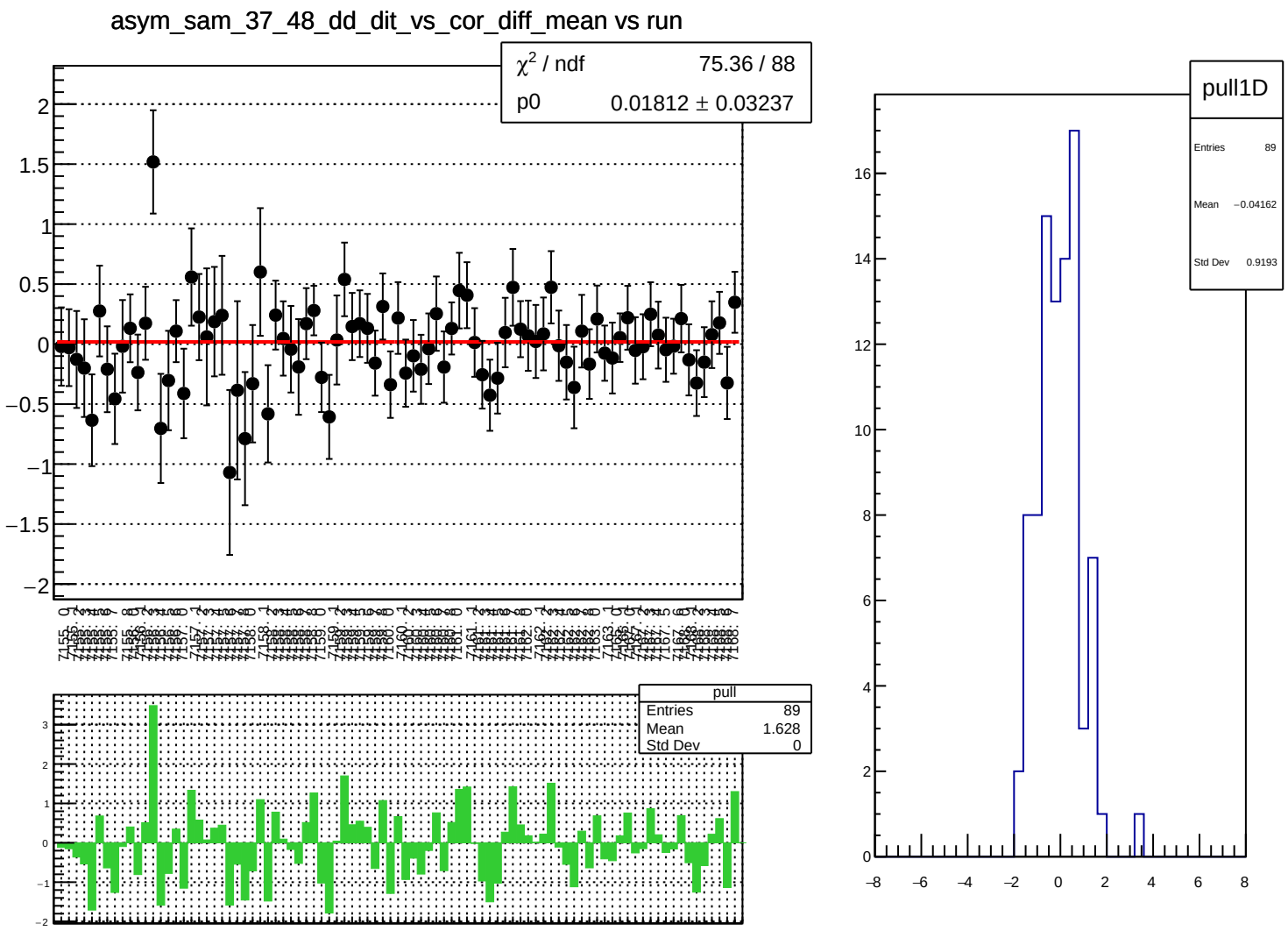

asym_sam_37_48_dd_mean vs run
χ² / ndf 64.6 / 88
p0 441.2 ± 431.4
15000
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −85.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

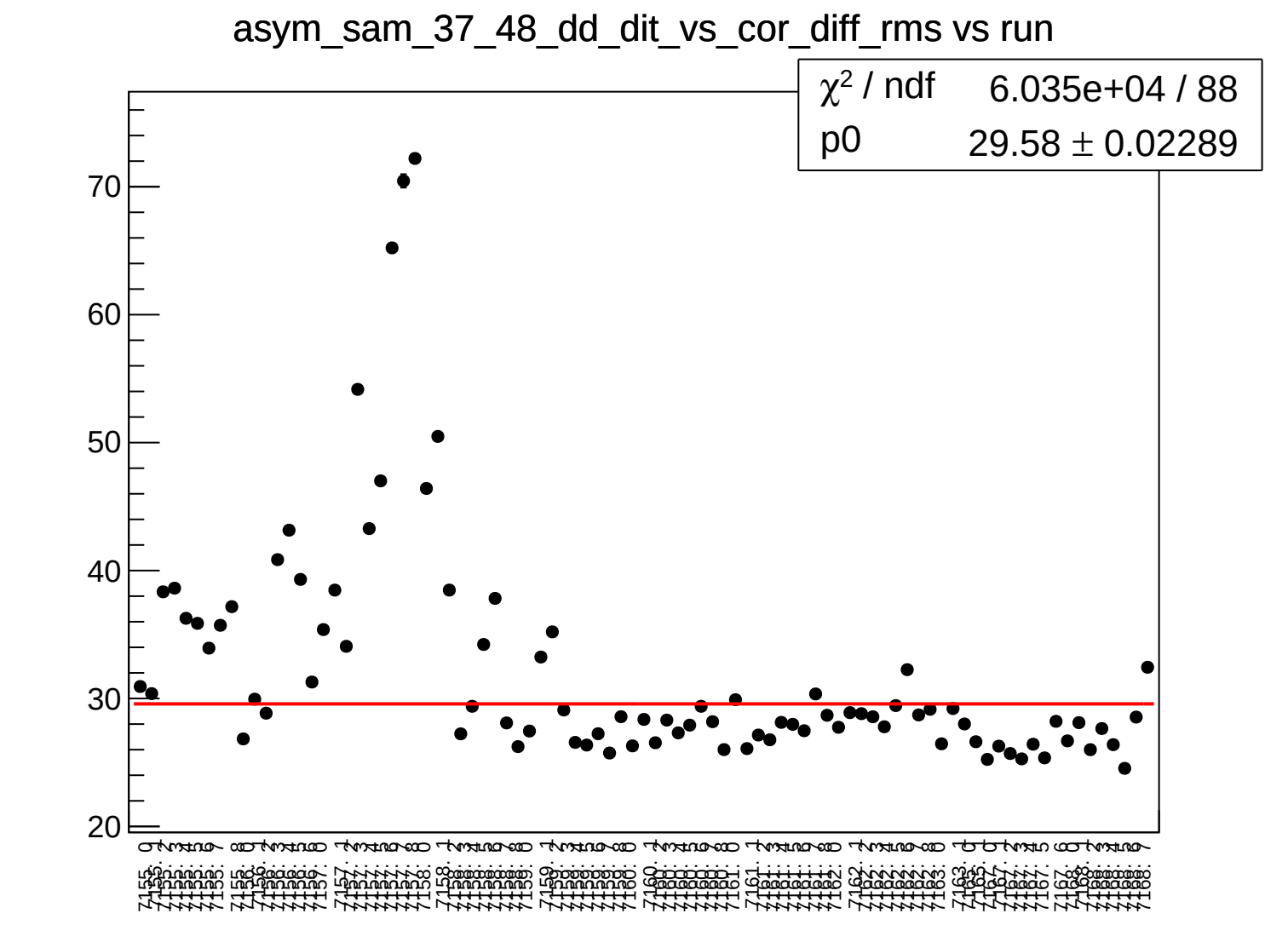

pull1D
Entries 89
Mean 0.01751
Std Dev 0.8518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

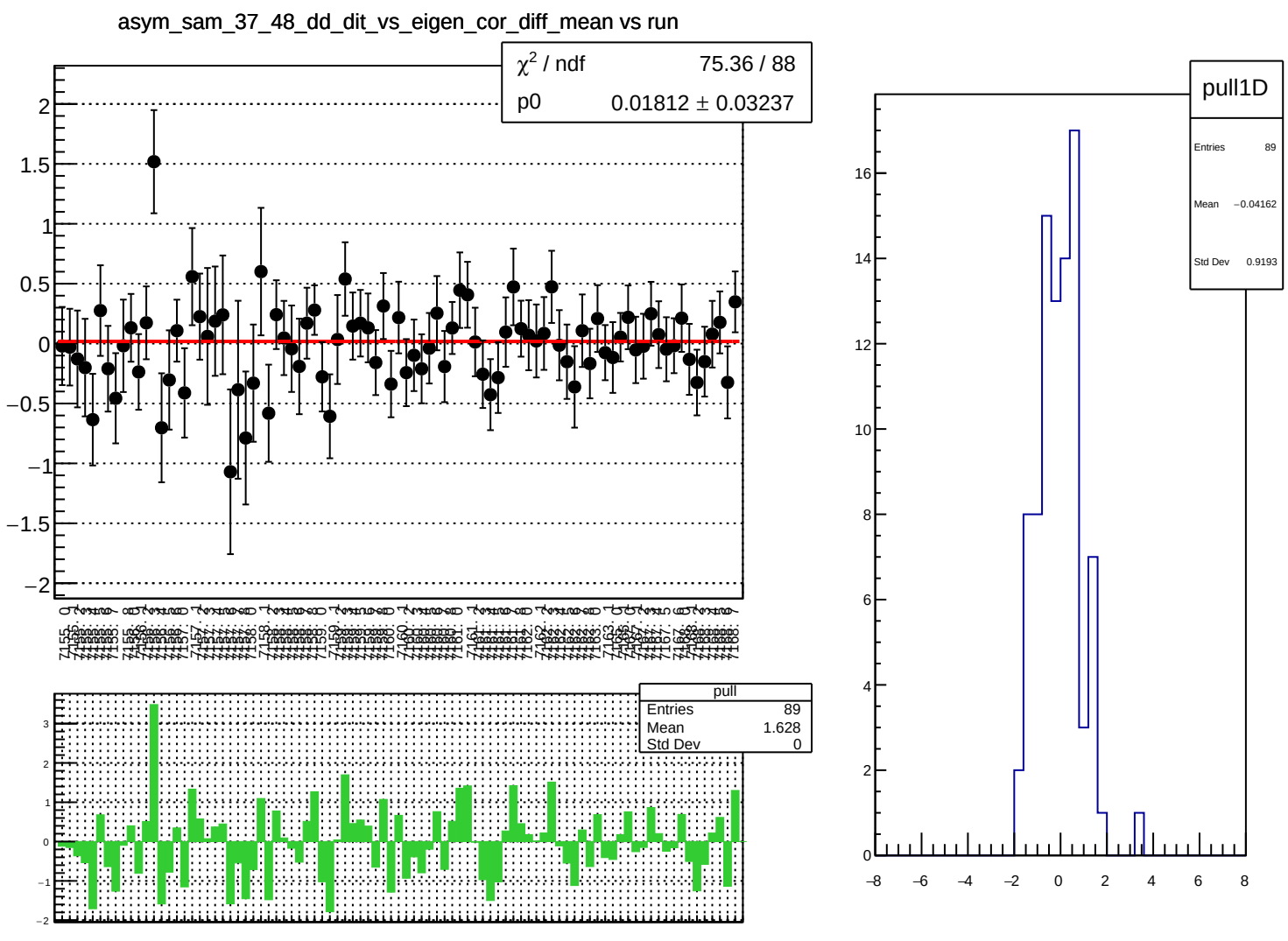

asym_sam_37_48_dd_rms vs run
χ² / ndf 5733 / 88
p0 400.6 ± 0.3051
460
440
420
400
380
360
340

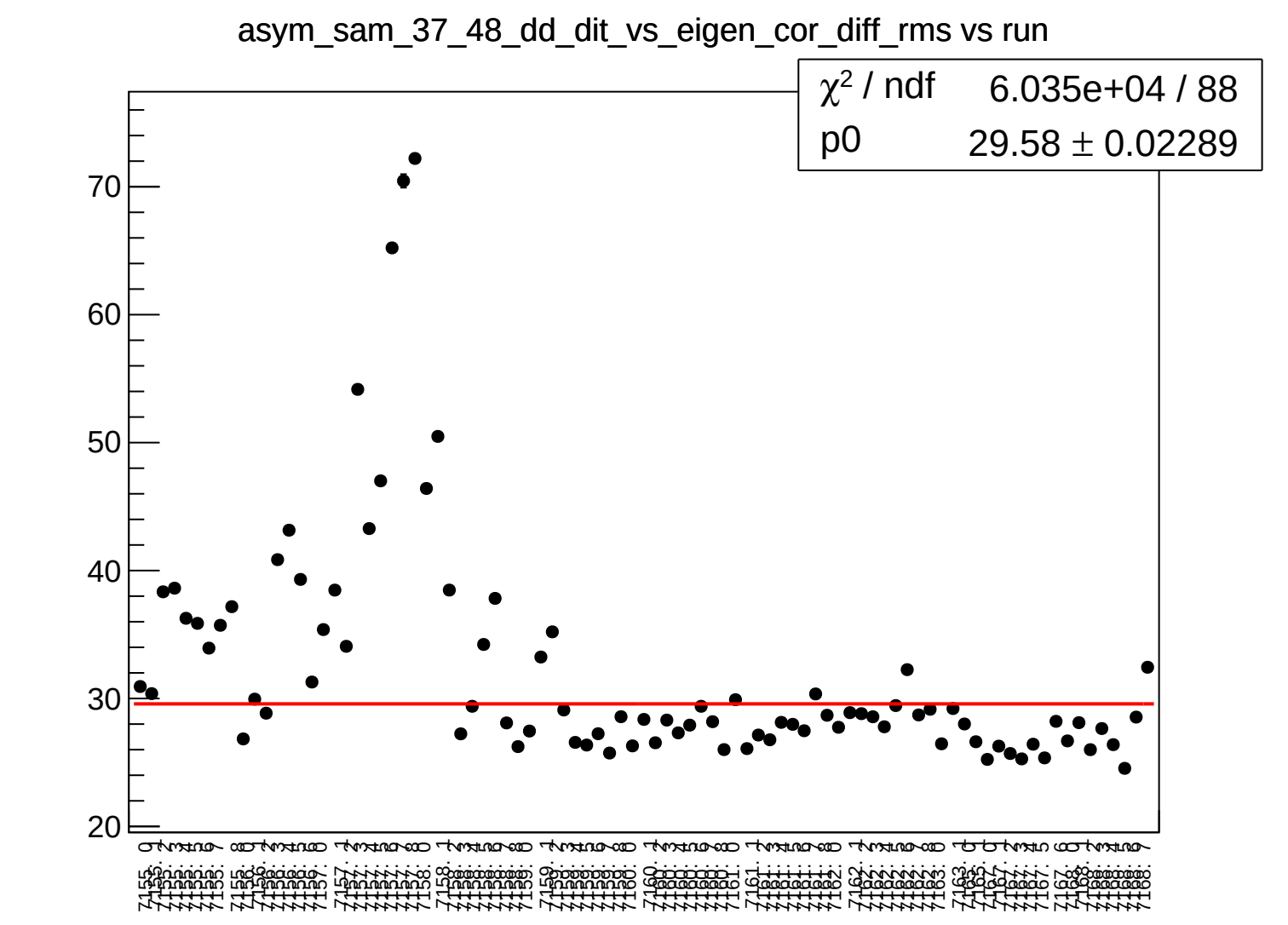

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.35 / 88
p0 8.61e−15 ± 1.558e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
−0.0014
pull
Entries 89
Mean 1738
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 89
Mean 0.001832
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

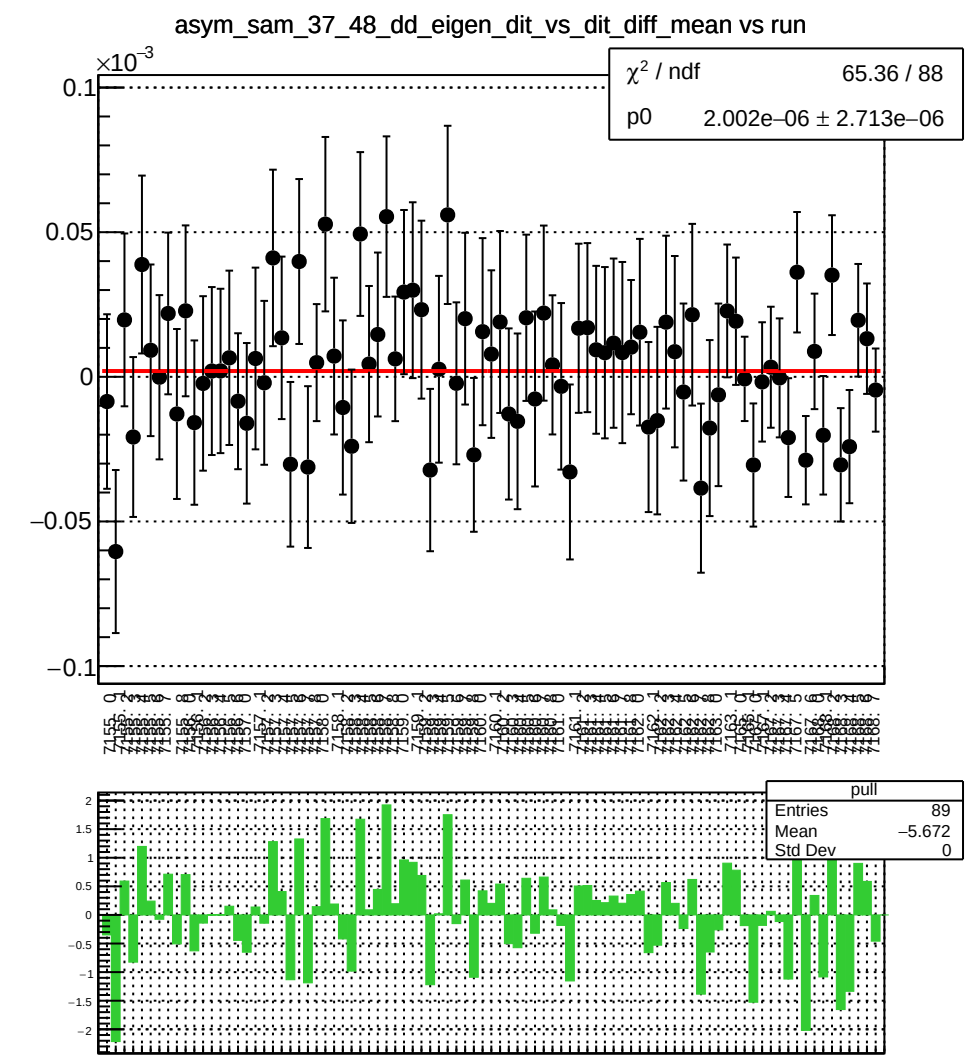

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.075e+06 / 88
p0 8.916e−12 ± 1.101e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

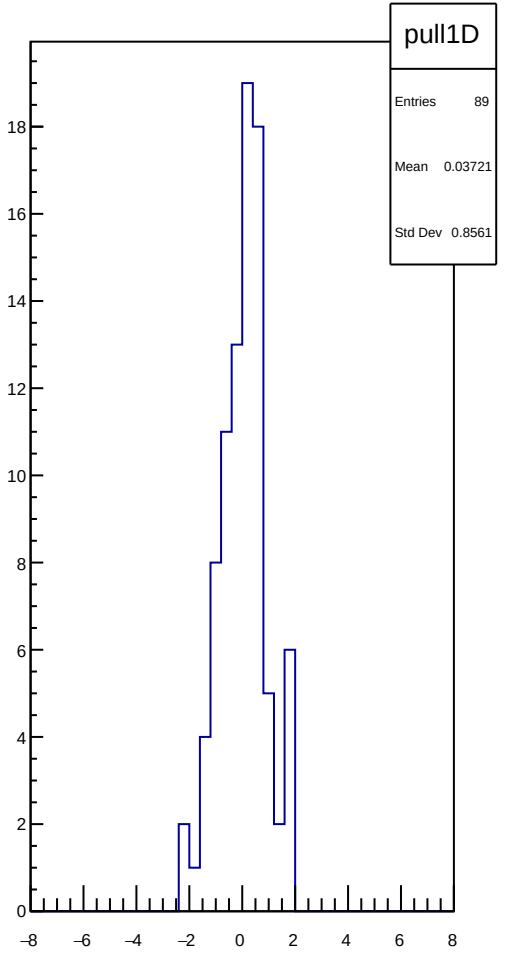

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 75.36 / 88
p0 0.01812 ± 0.03237
pull
Entries 89
Mean 1.628
Std Dev 0
pull1D
Entries 89
Mean −0.04162
Std Dev 0.9193

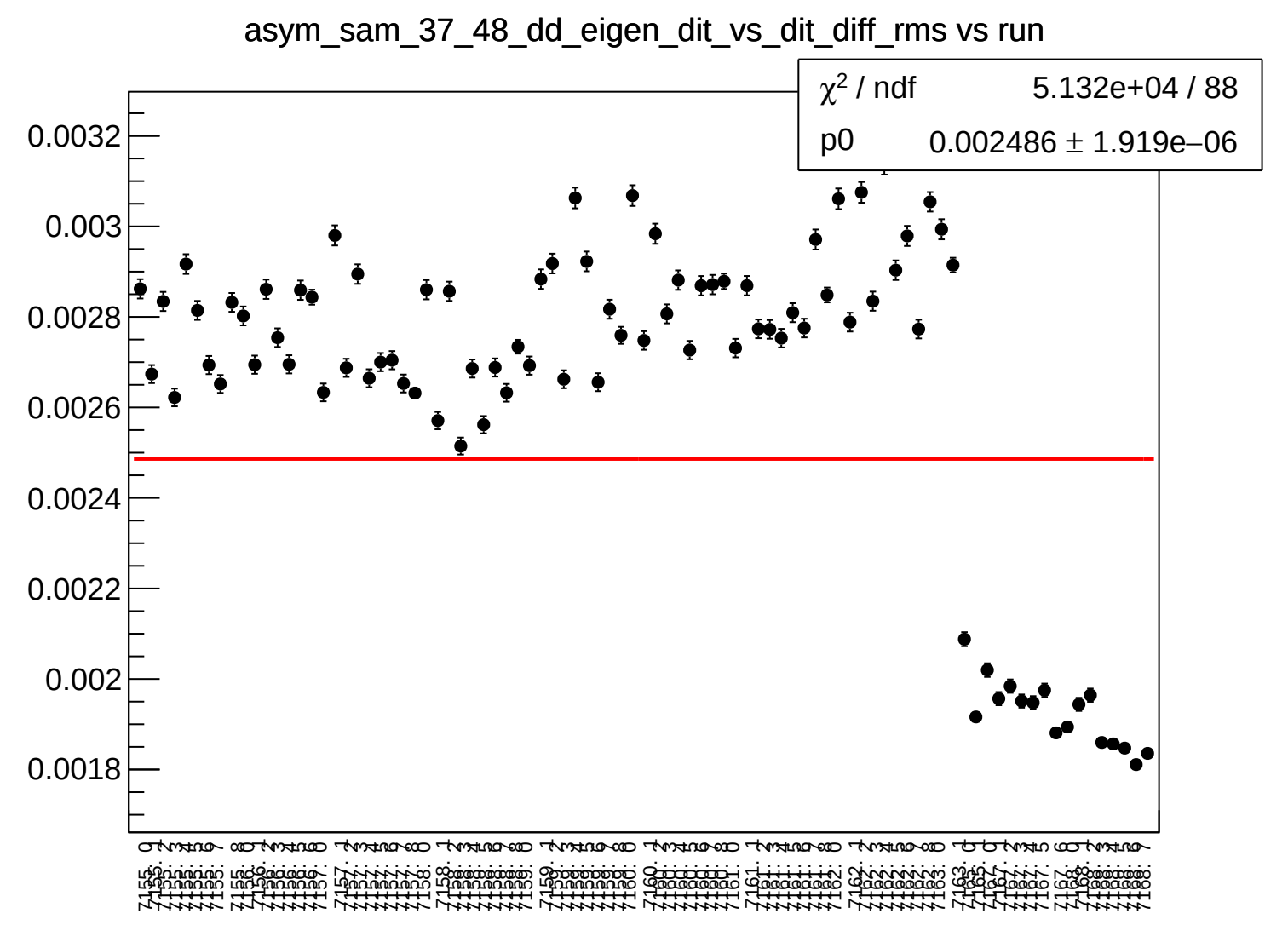

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.035e+04 / 88
p0 29.58 ± 0.02289
70
60
50
40
30
20

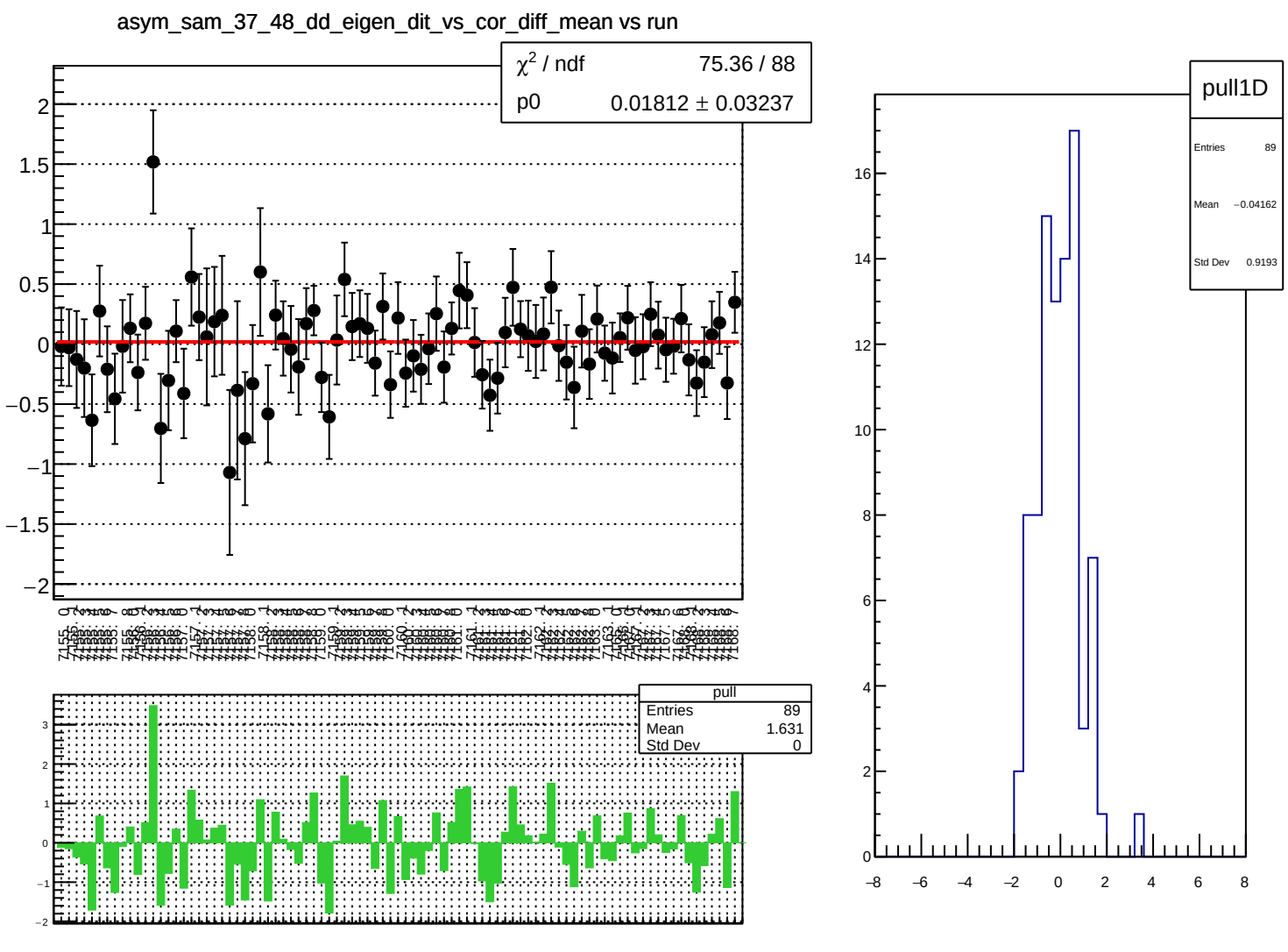

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.36 / 88
p0 0.01812 ± 0.03237
pull
Entries 89
Mean 1.628
Std Dev 0
pull1D
Entries 89
Mean −0.04162
Std Dev 0.9193

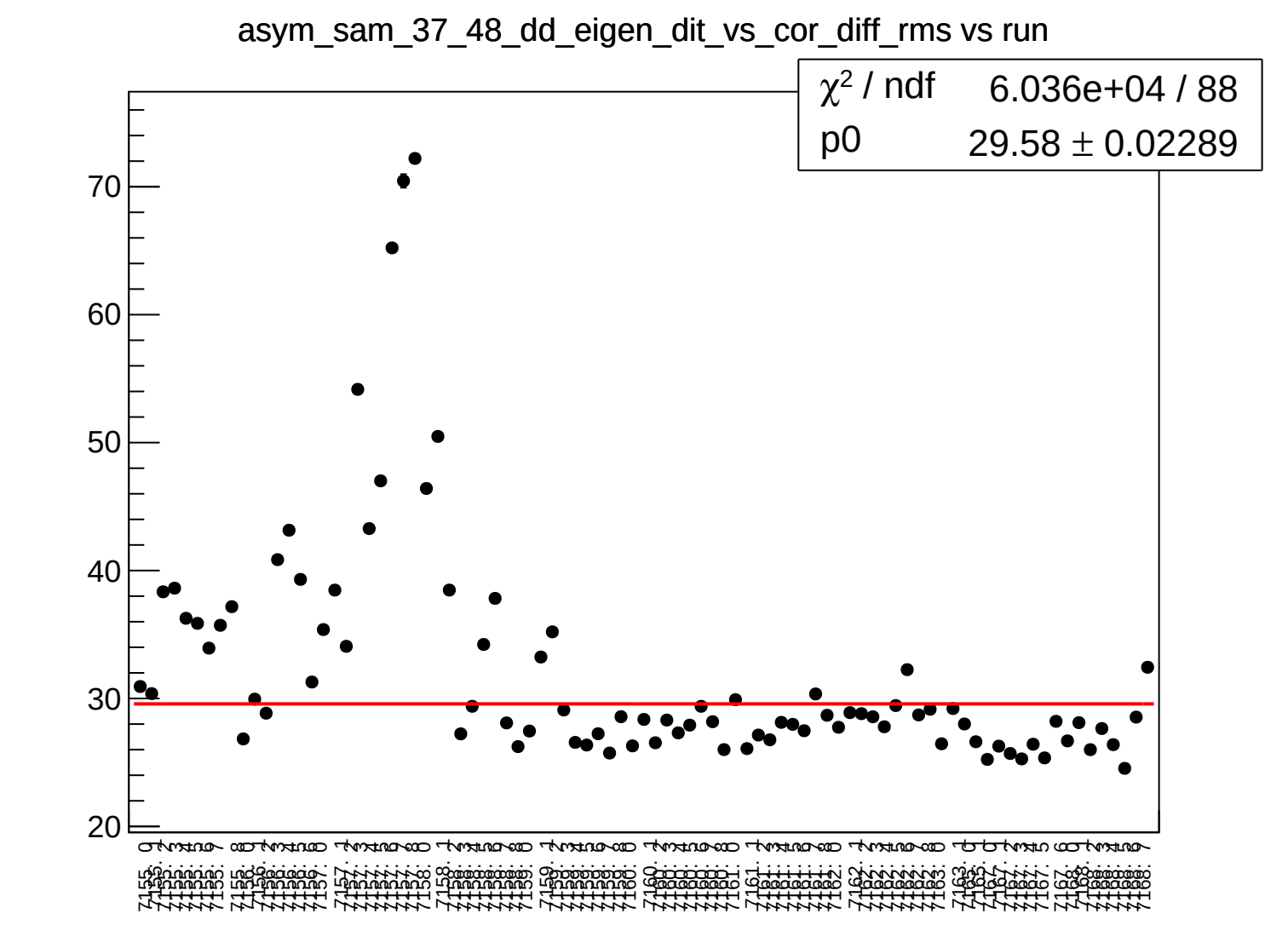

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 6.035e+04 / 88
p0 29.58 ± 0.02289
70
60
50
40
30
20

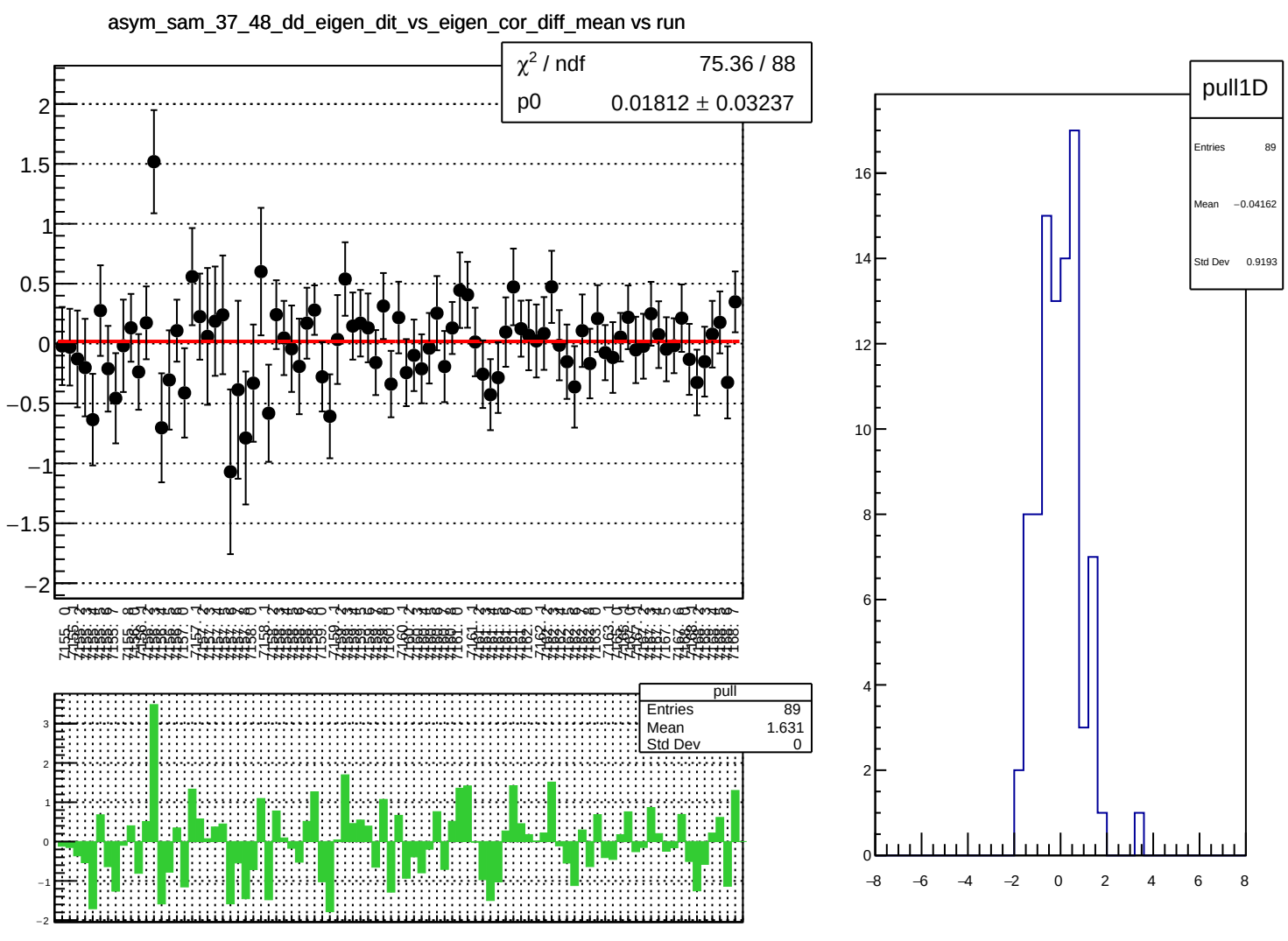

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.36 / 88
p0 2.002e−06 ± 2.713e−06
pull
Entries 89
Mean −5.672
Std Dev 0

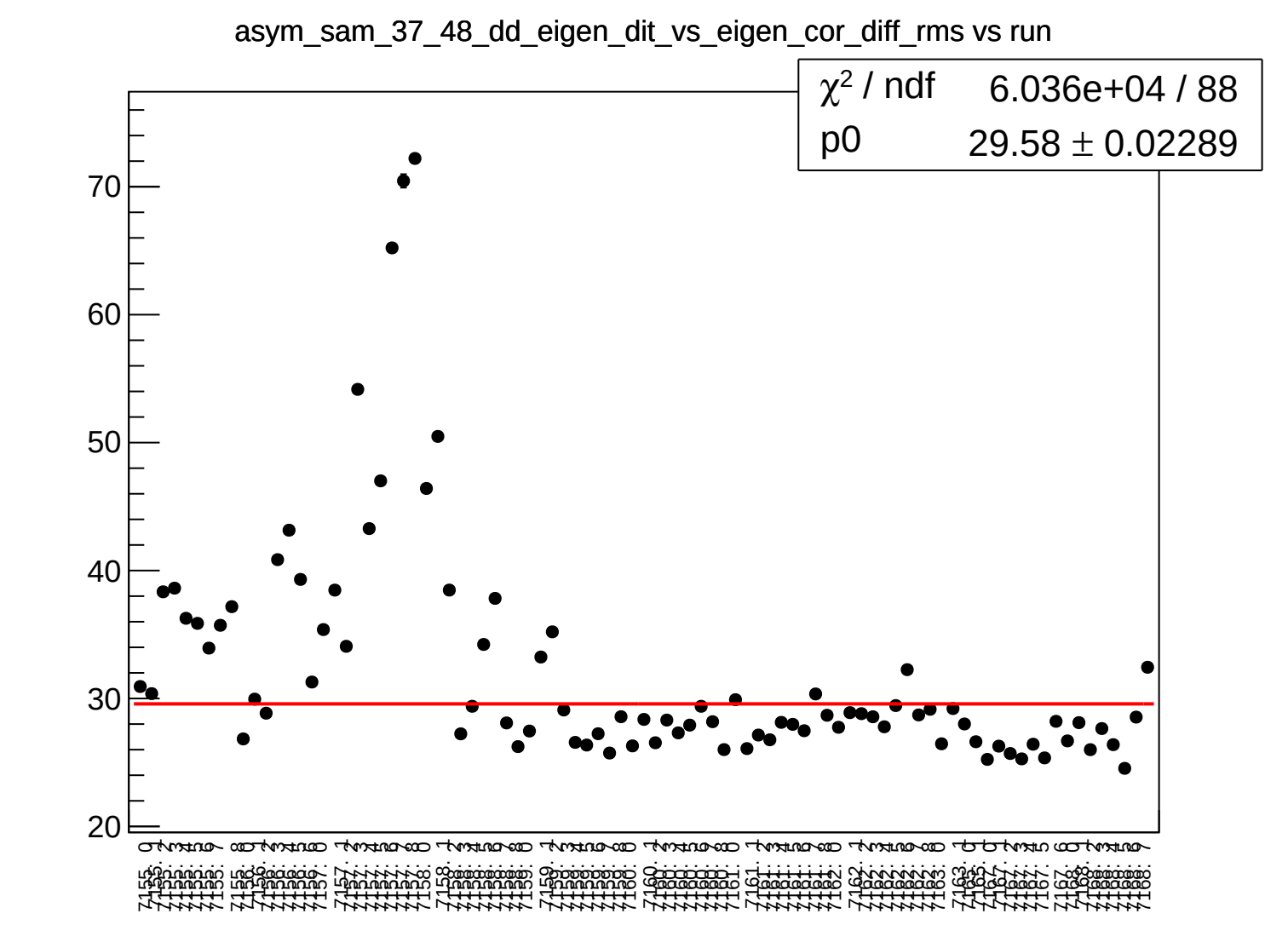

pull1D
Entries 89
Mean 0.03721
Std Dev 0.8561

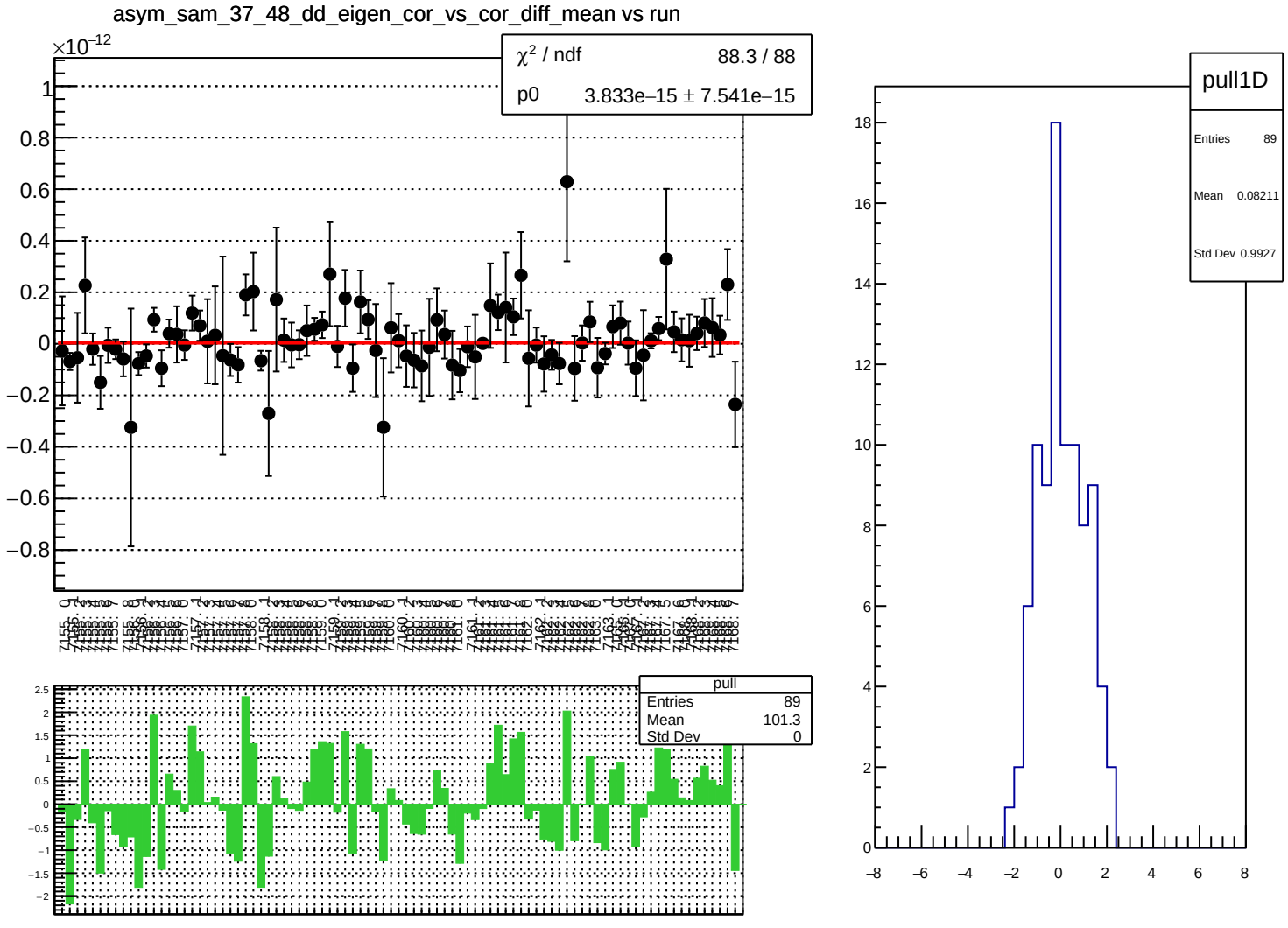

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.132e+04 / 88
p0 0.002486 ± 1.919e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

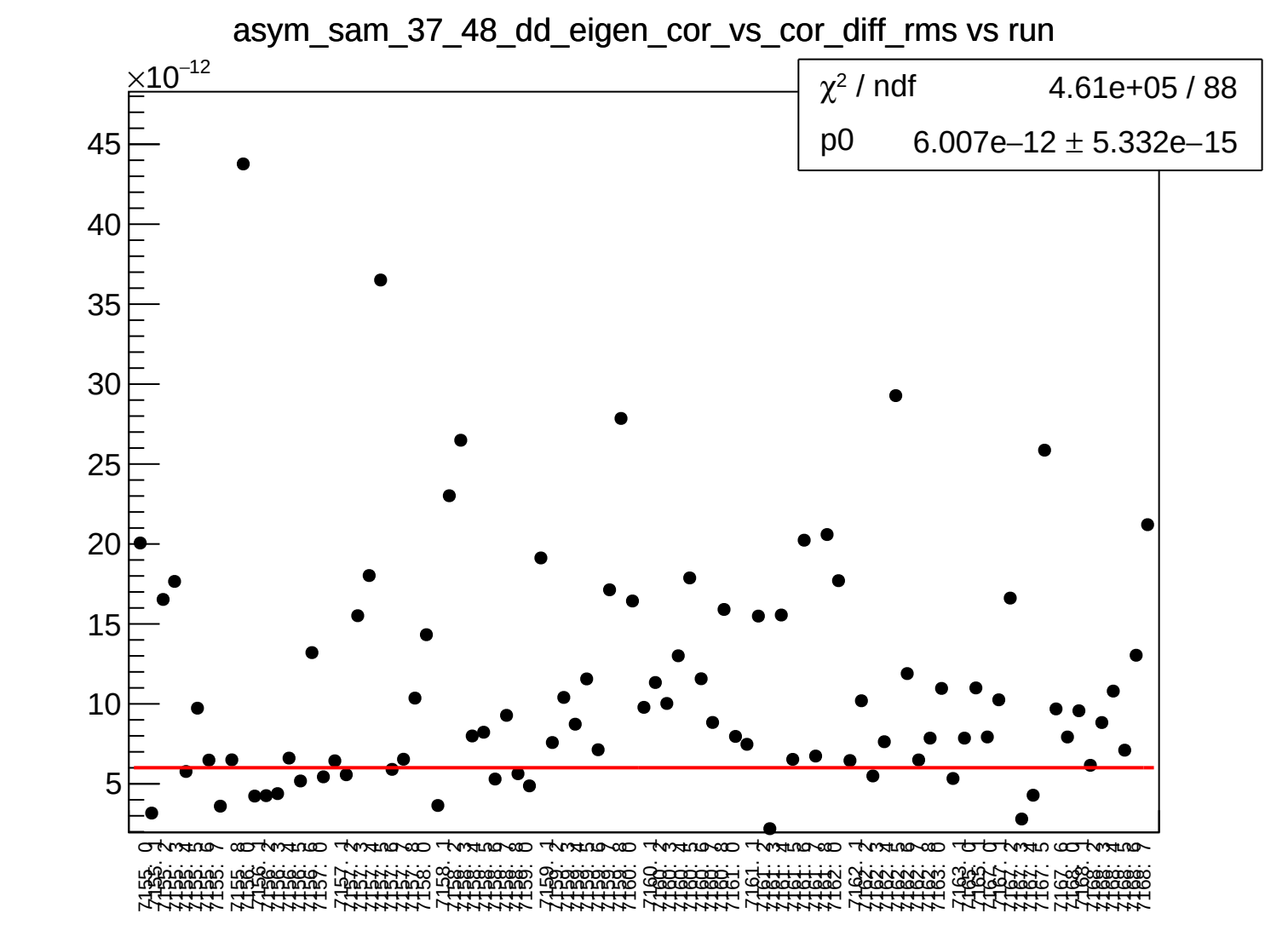

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.36 / 88
p0 0.01812 ± 0.03237
pull
Entries 89
Mean 1.631
Std Dev 0
pull1D
Entries 89
Mean −0.04162
Std Dev 0.9193

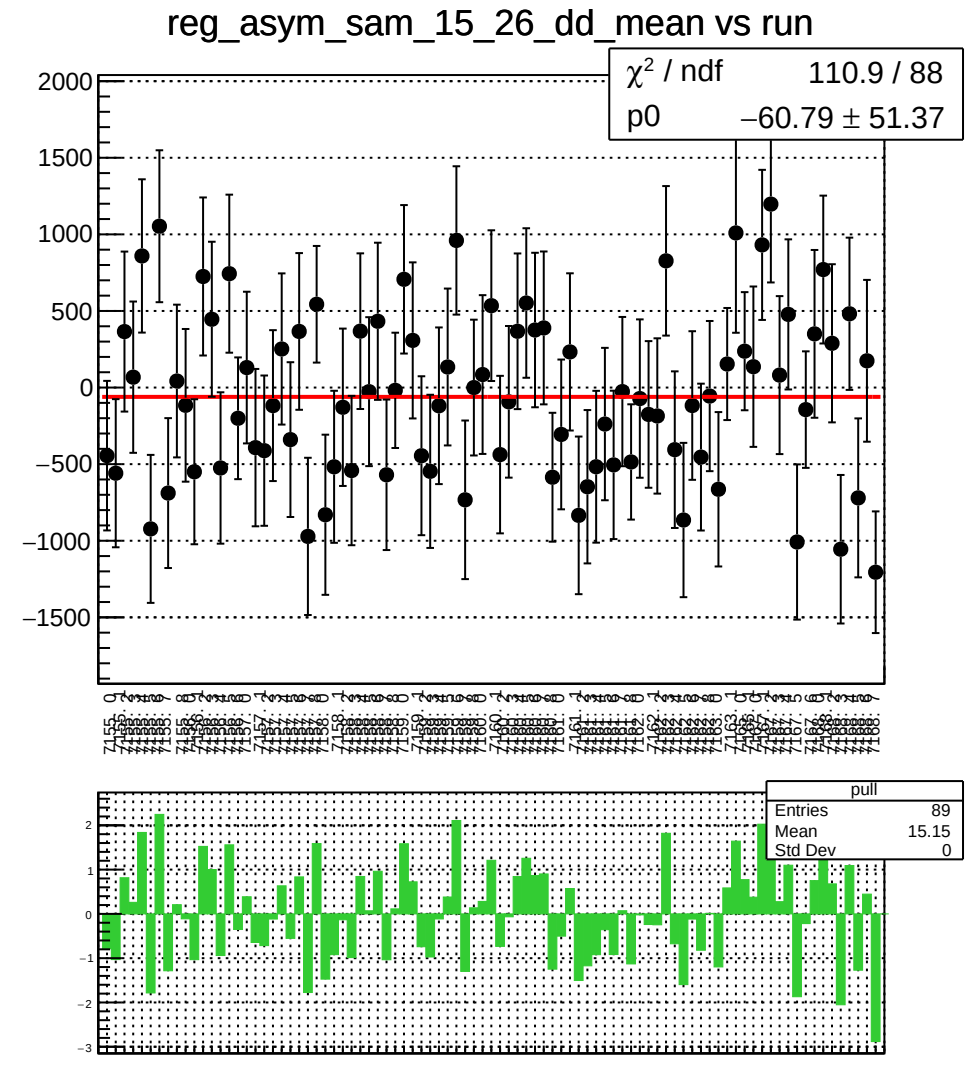

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.036e+04 / 88
p0 29.58 ± 0.02289
70
60
50
40
30
20

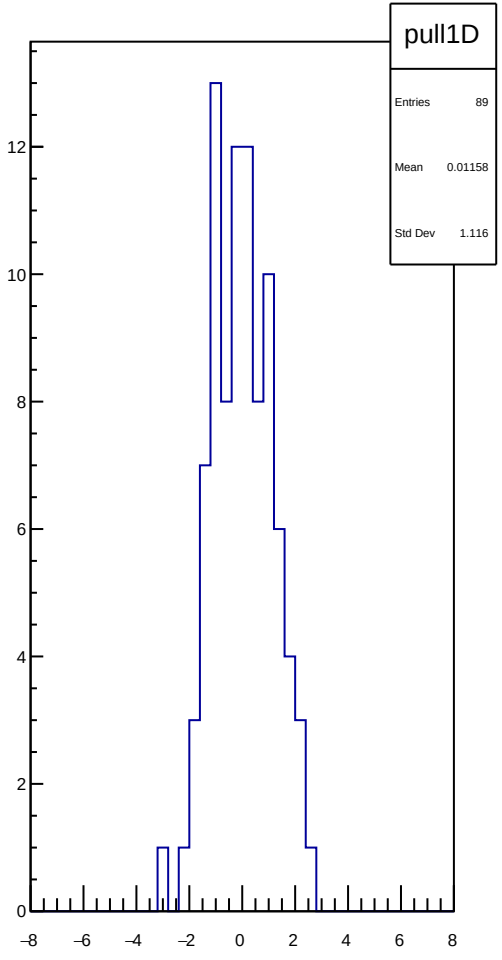

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.36 / 88
p0 0.01812 ± 0.03237
pull
Entries 89
Mean 1.631
Std Dev 0
pull1D
Entries 89
Mean −0.04162
Std Dev 0.9193

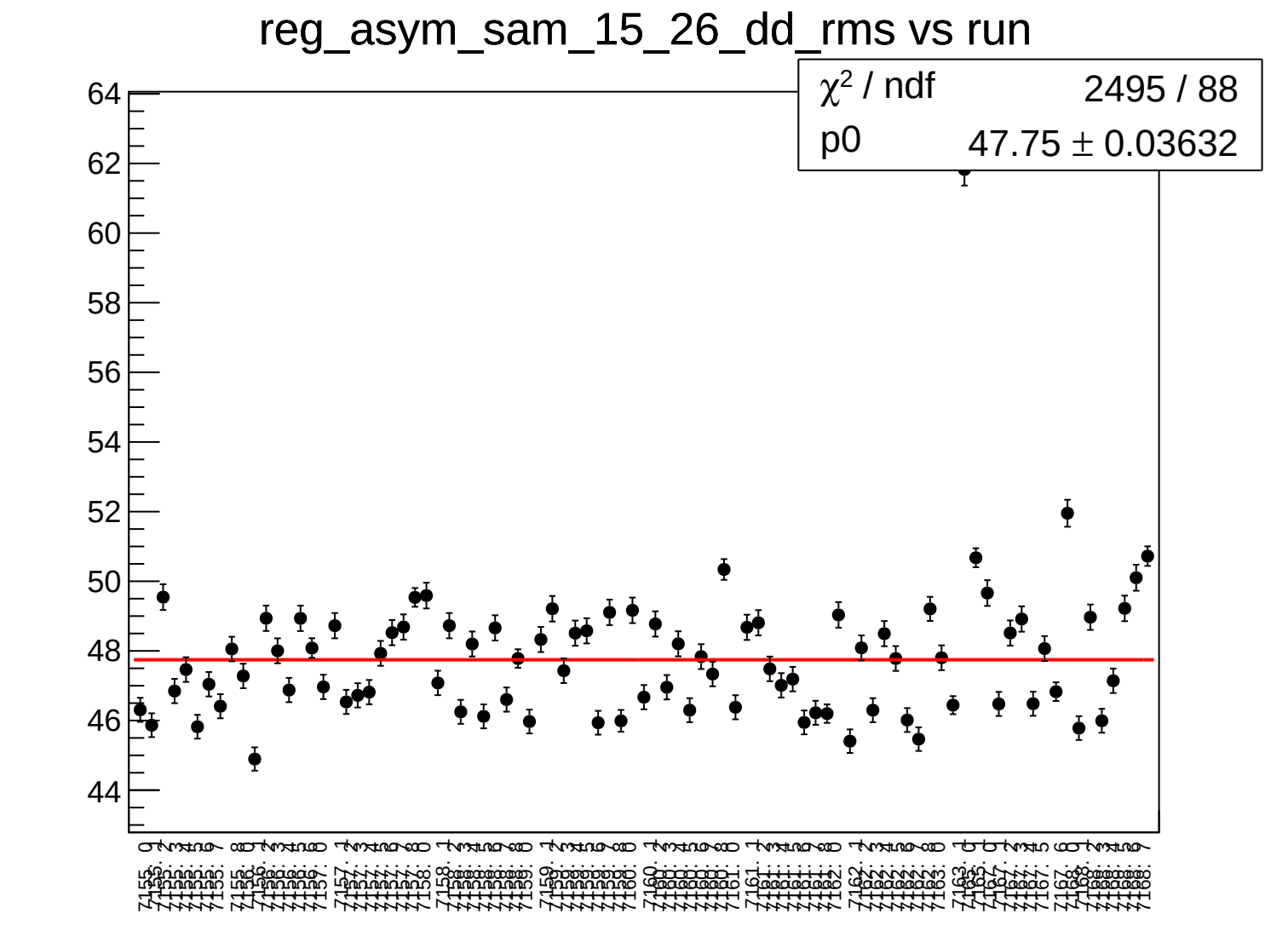

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.036e+04 / 88
p0 29.58 ± 0.02289
70
60
50
40
30
20

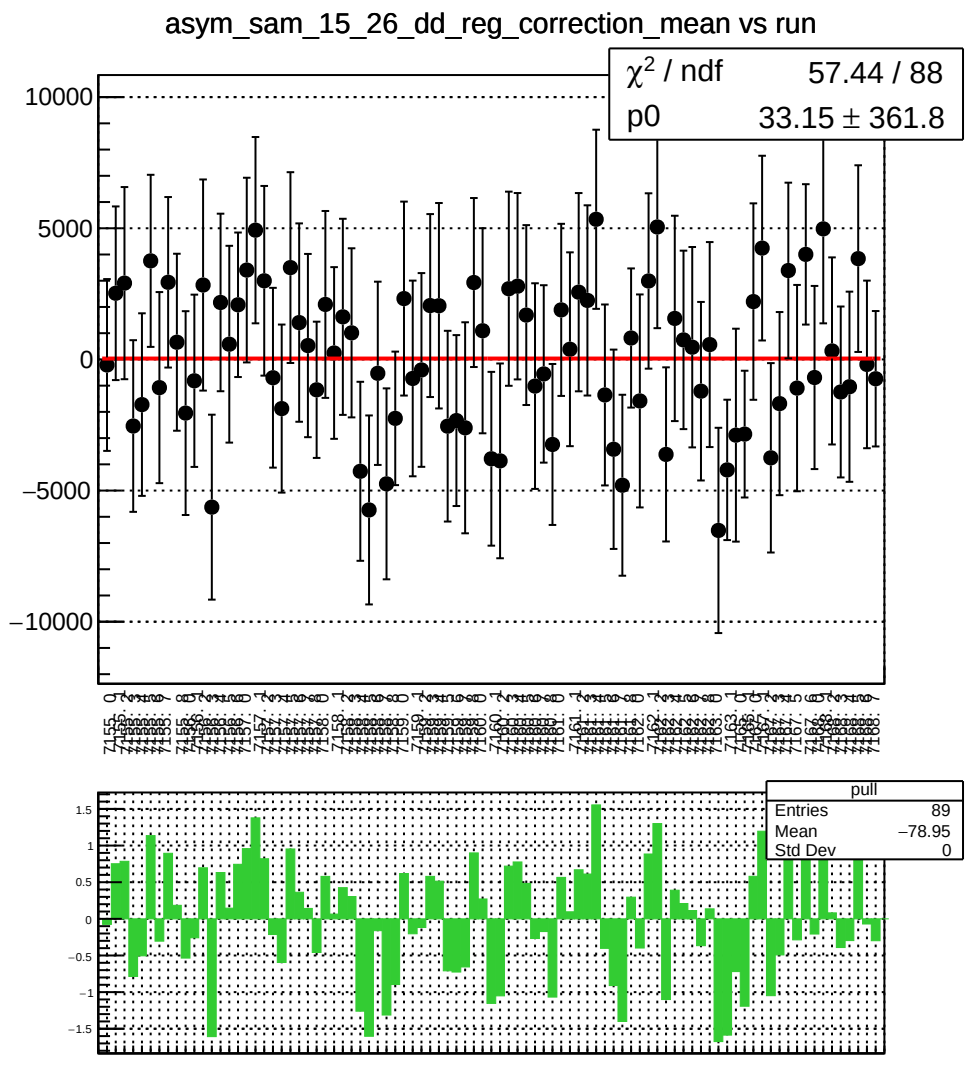

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.3 / 88
p0 3.833e−15 ± 7.541e−15
pull
Entries 89
Mean 101.3
Std Dev 0
pull1D
Entries 89
Mean 0.08211
Std Dev 0.9927

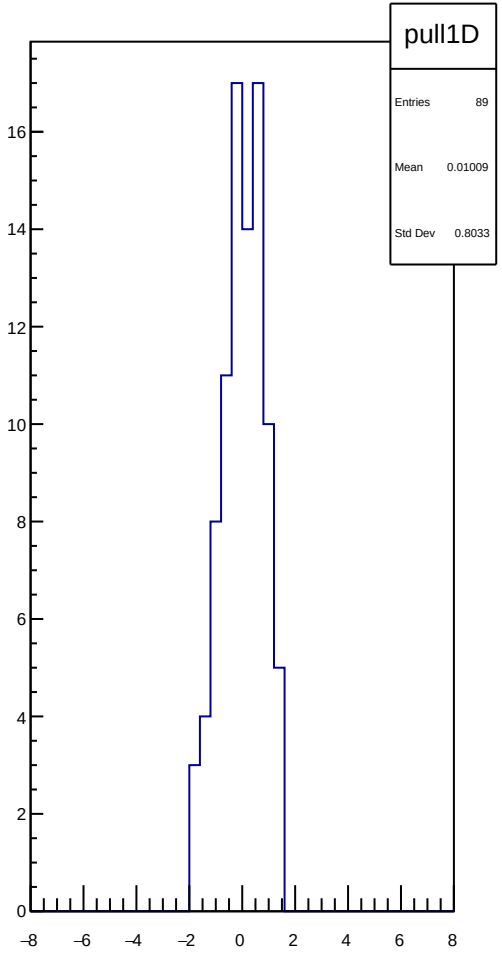

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.61e+05 / 88
p0 6.007e−12 ± 5.332e−15
45
40
35
30
25
20
15
10
5

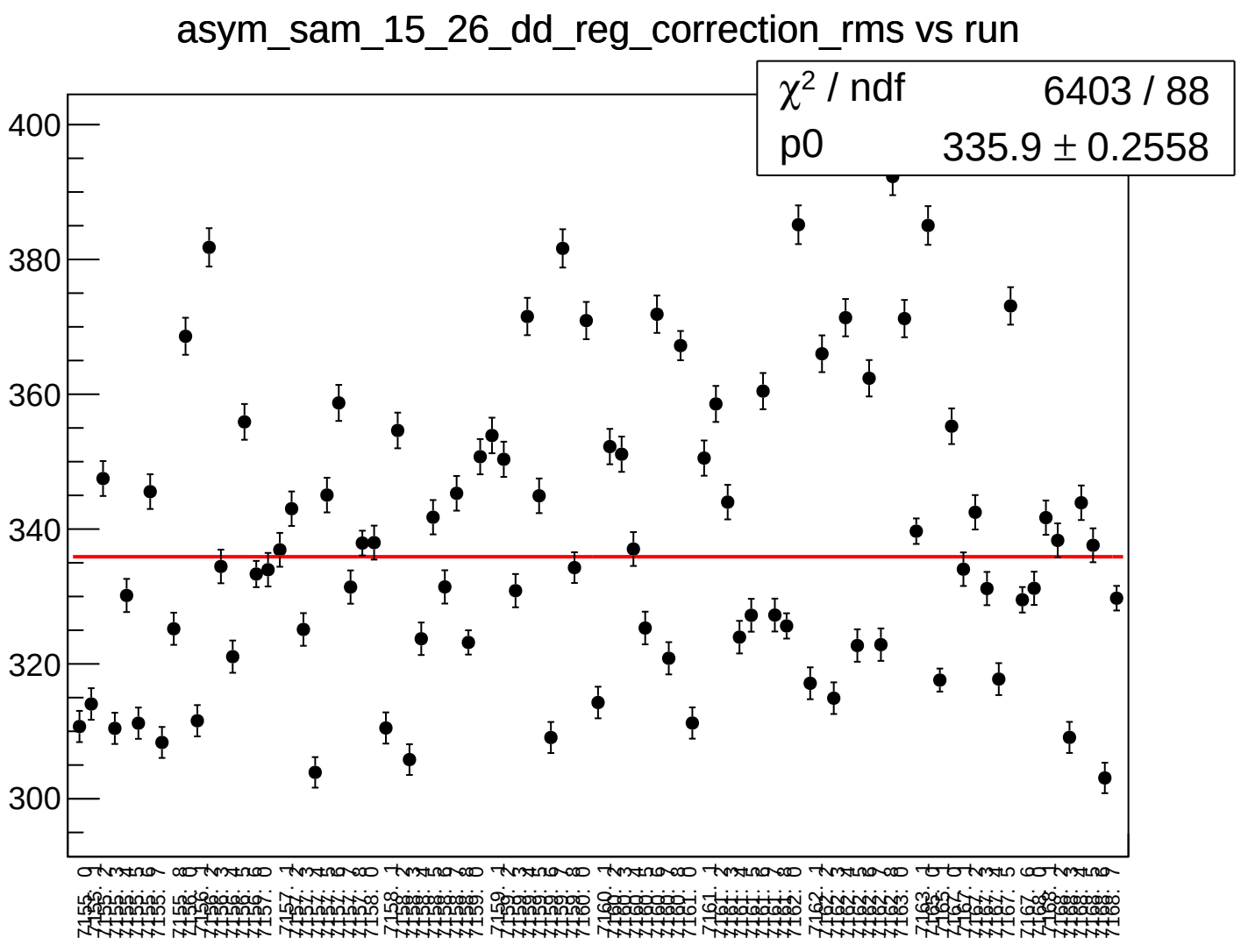

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.9 / 88
p0 −60.79 ± 51.37
pull
Entries 89
Mean 15.15
Std Dev 0

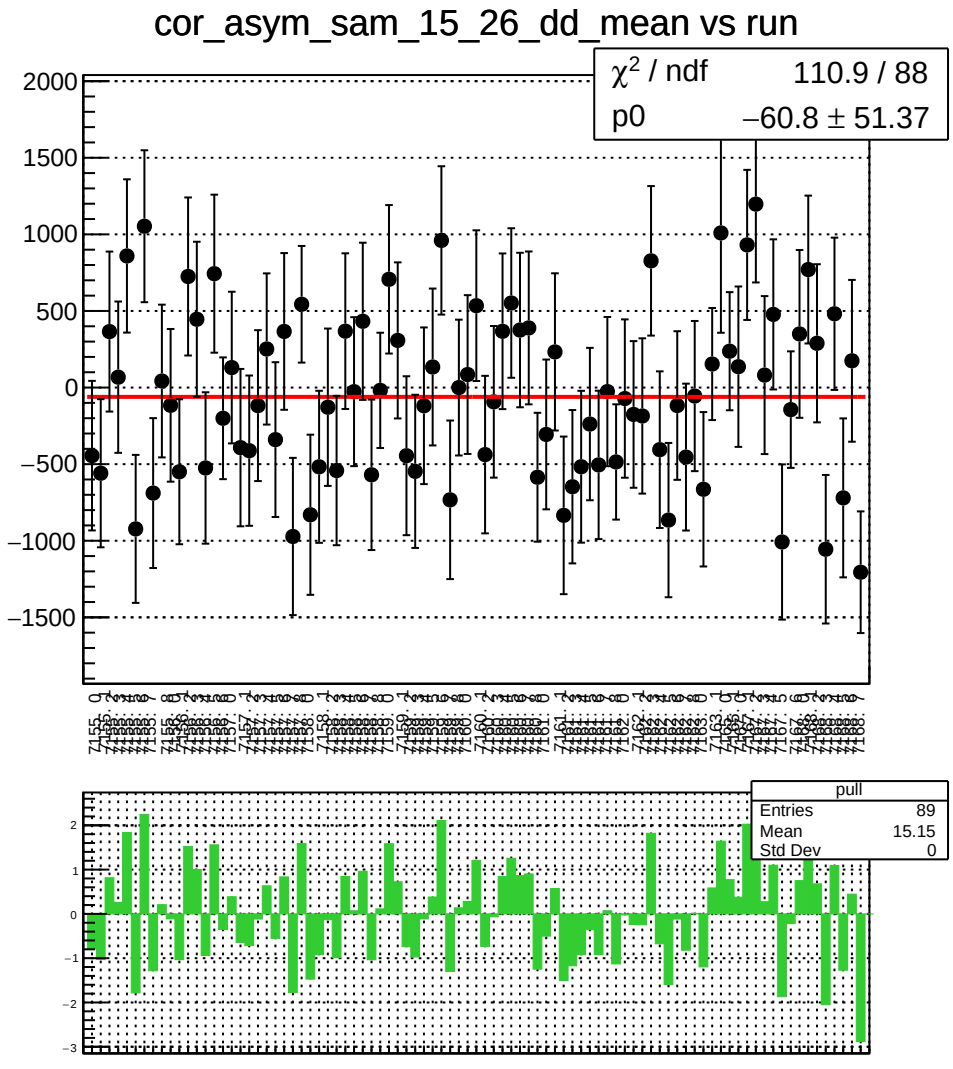

pull1D
Entries 89
Mean 0.01158
Std Dev 1.116

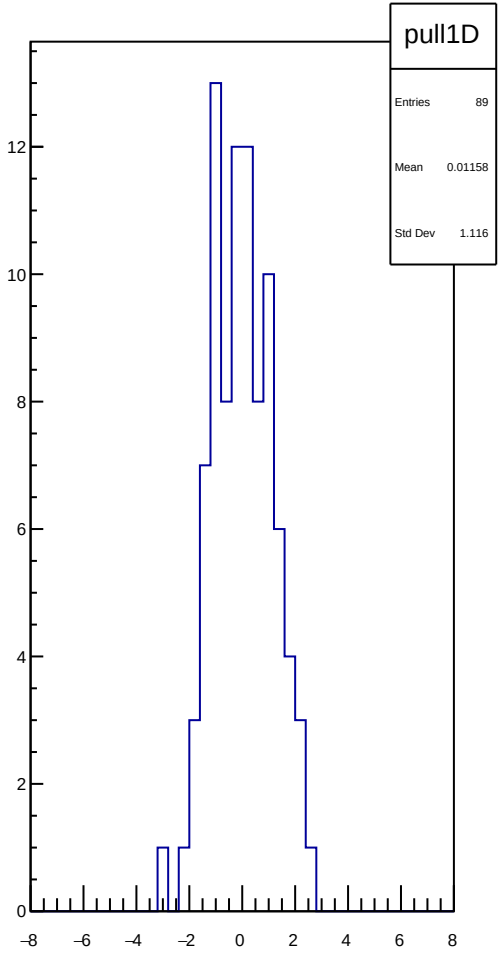

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2495 / 88
p0 47.75 ± 0.03632
64
62
60
58
56
54
52
50
48
46
44

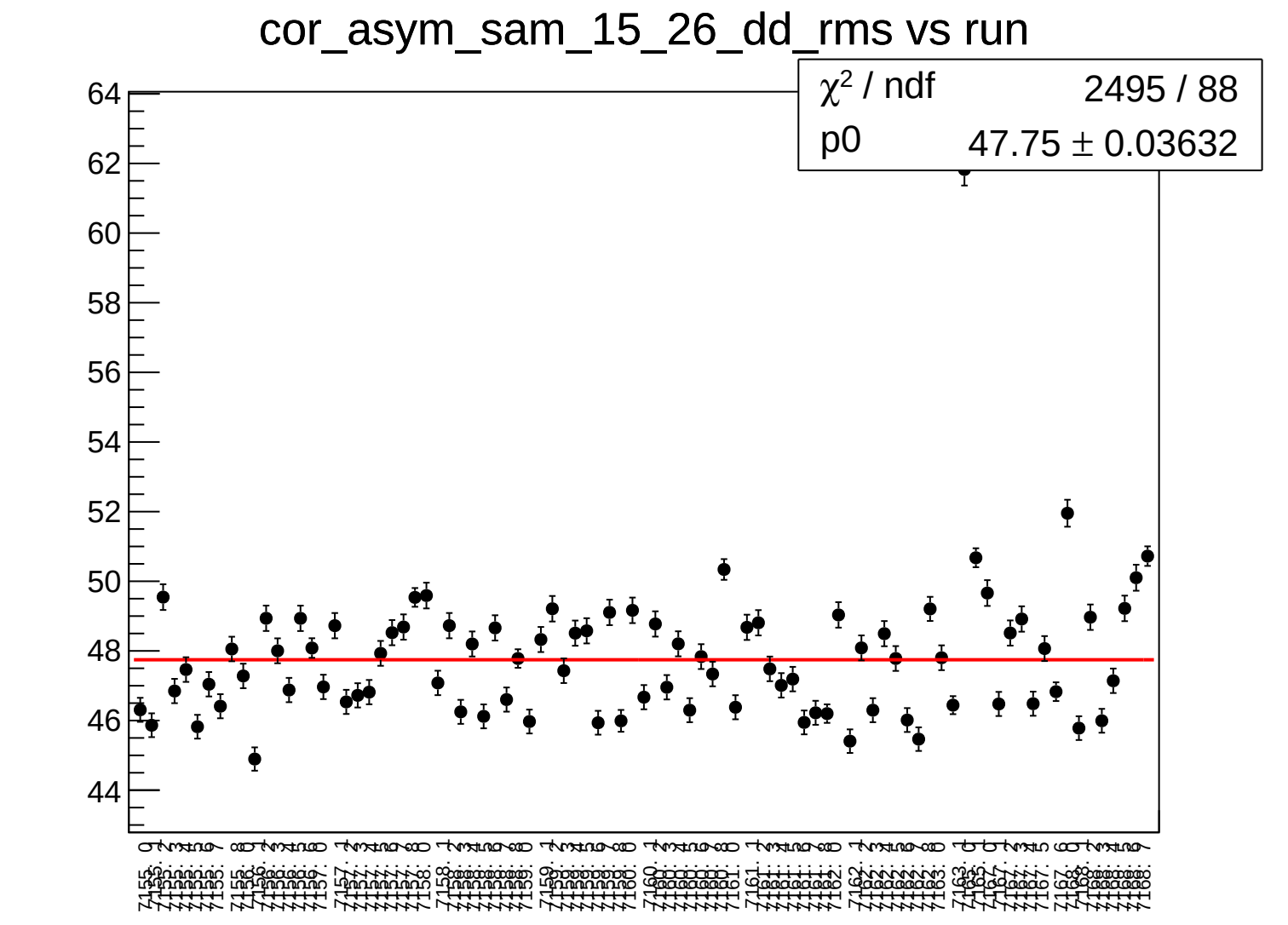

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 57.44 / 88
p0 33.15 ± 361.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −78.95
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

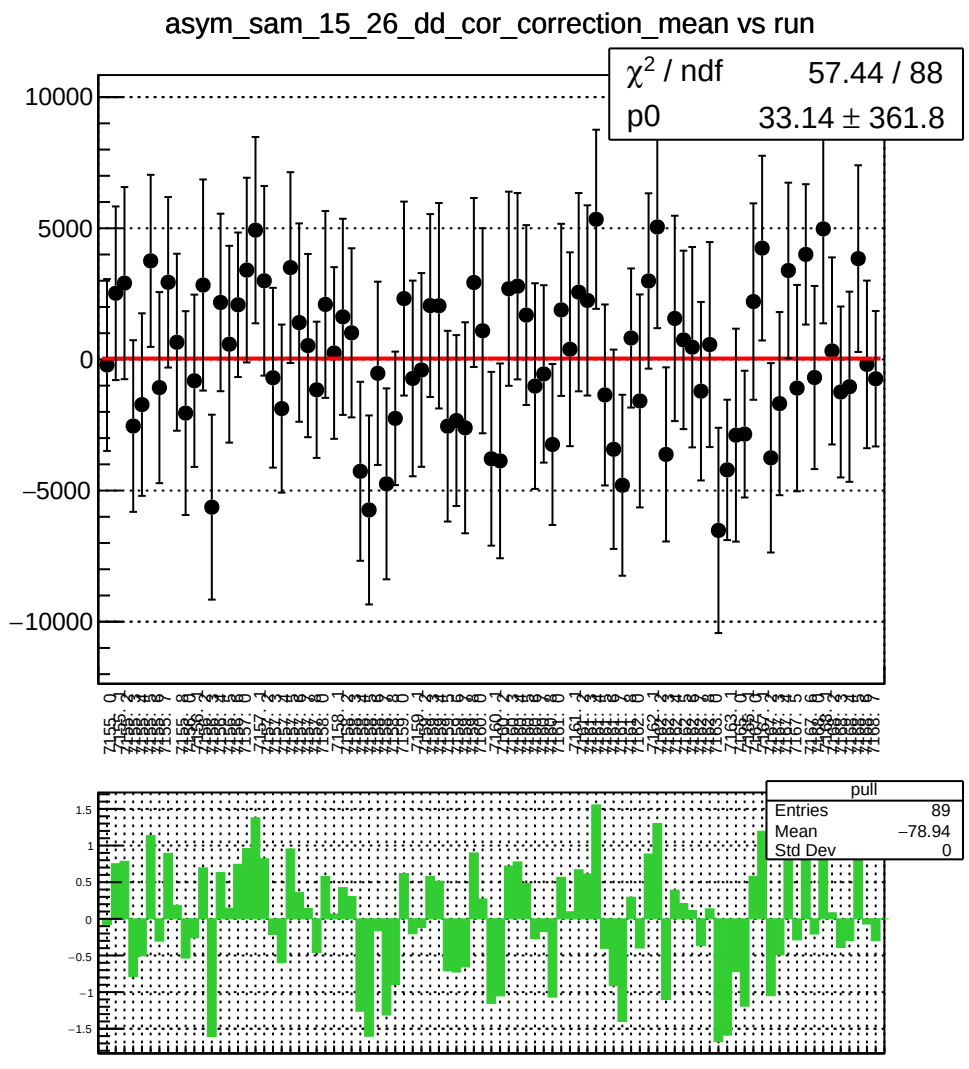

pull1D
Entries 89
Mean 0.01009
Std Dev 0.8033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

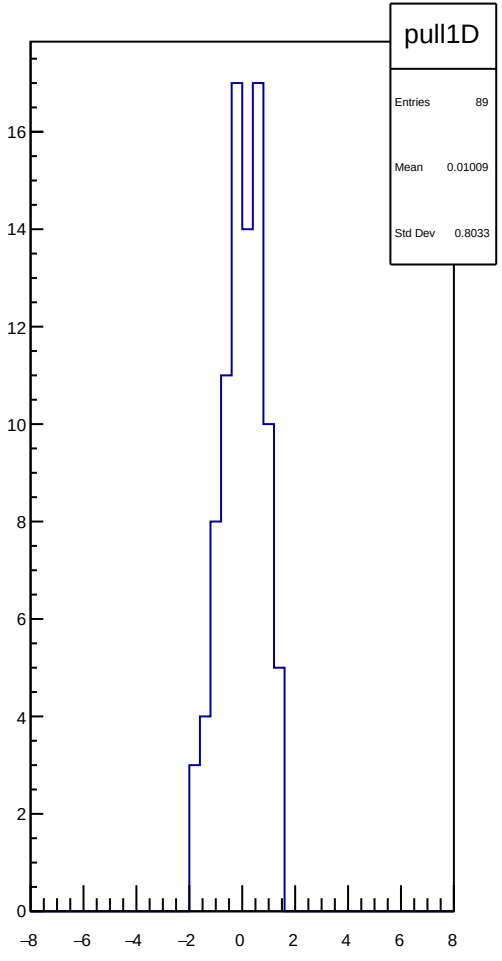

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6403 / 88
p0 335.9 ± 0.2558
400
380
360
340
320
300

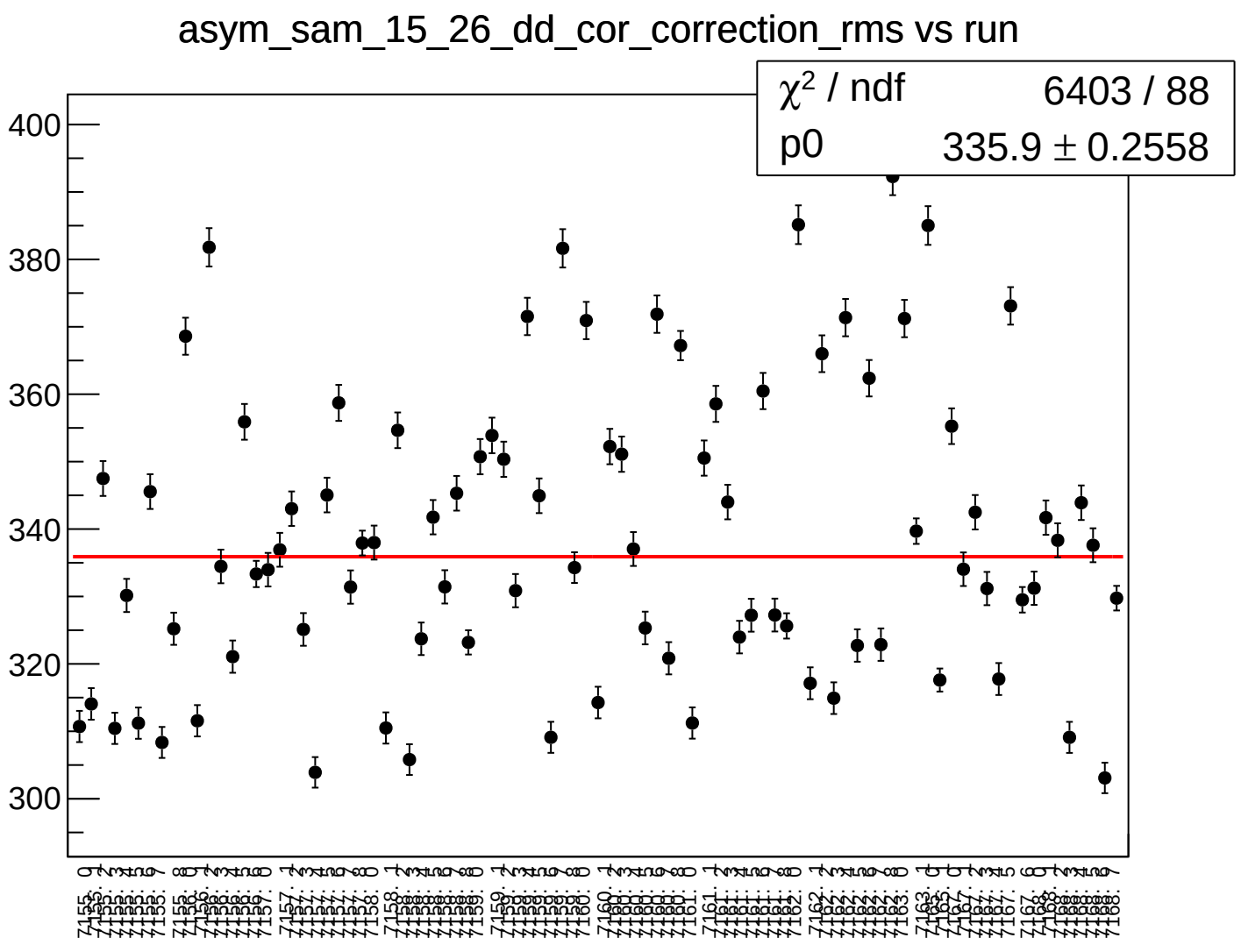

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 110.9 / 88
p0 −60.8 ± 51.37
pull
Entries 89
Mean 15.15
Std Dev 0

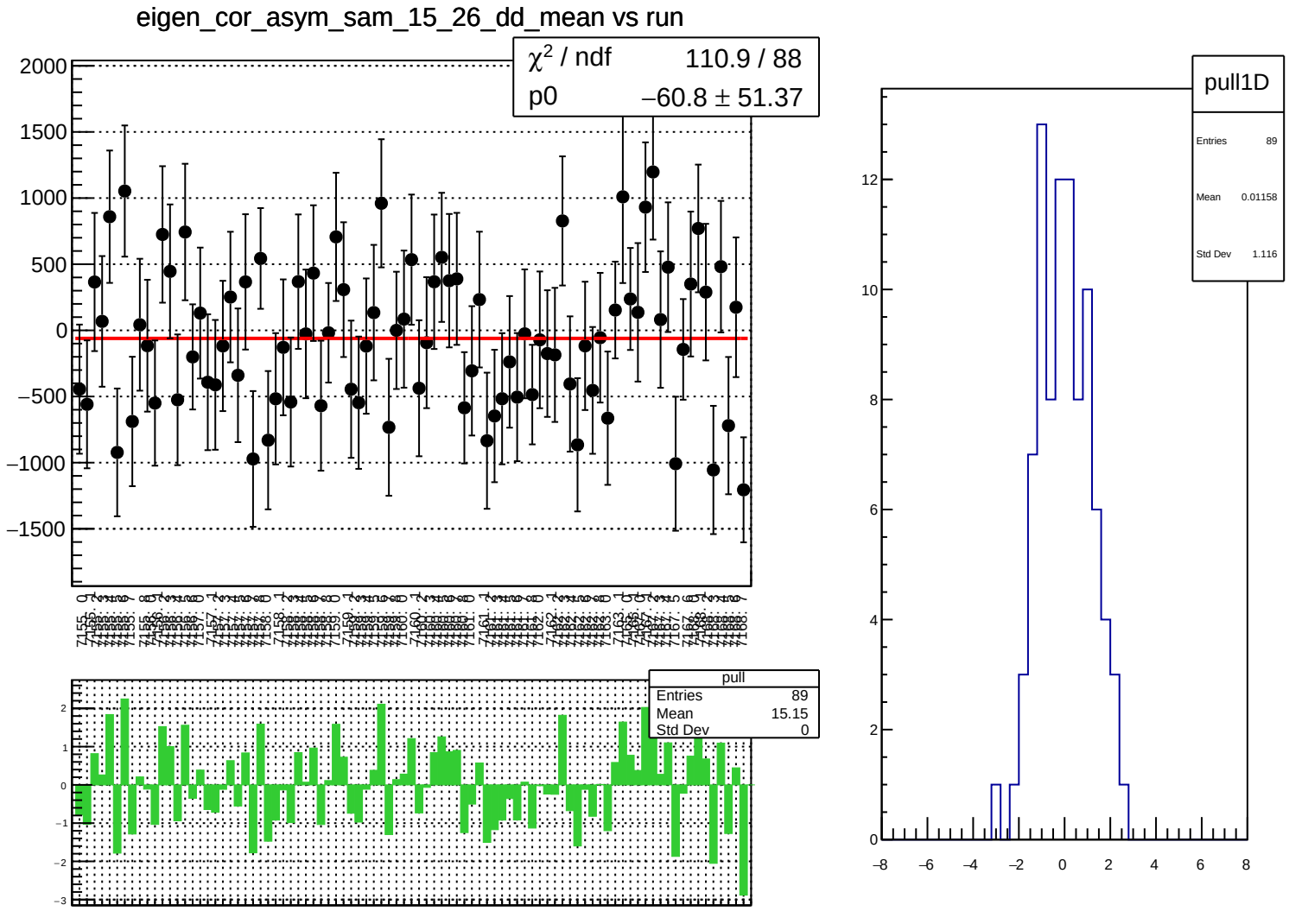

pull1D
Entries 89
Mean 0.01158
Std Dev 1.116

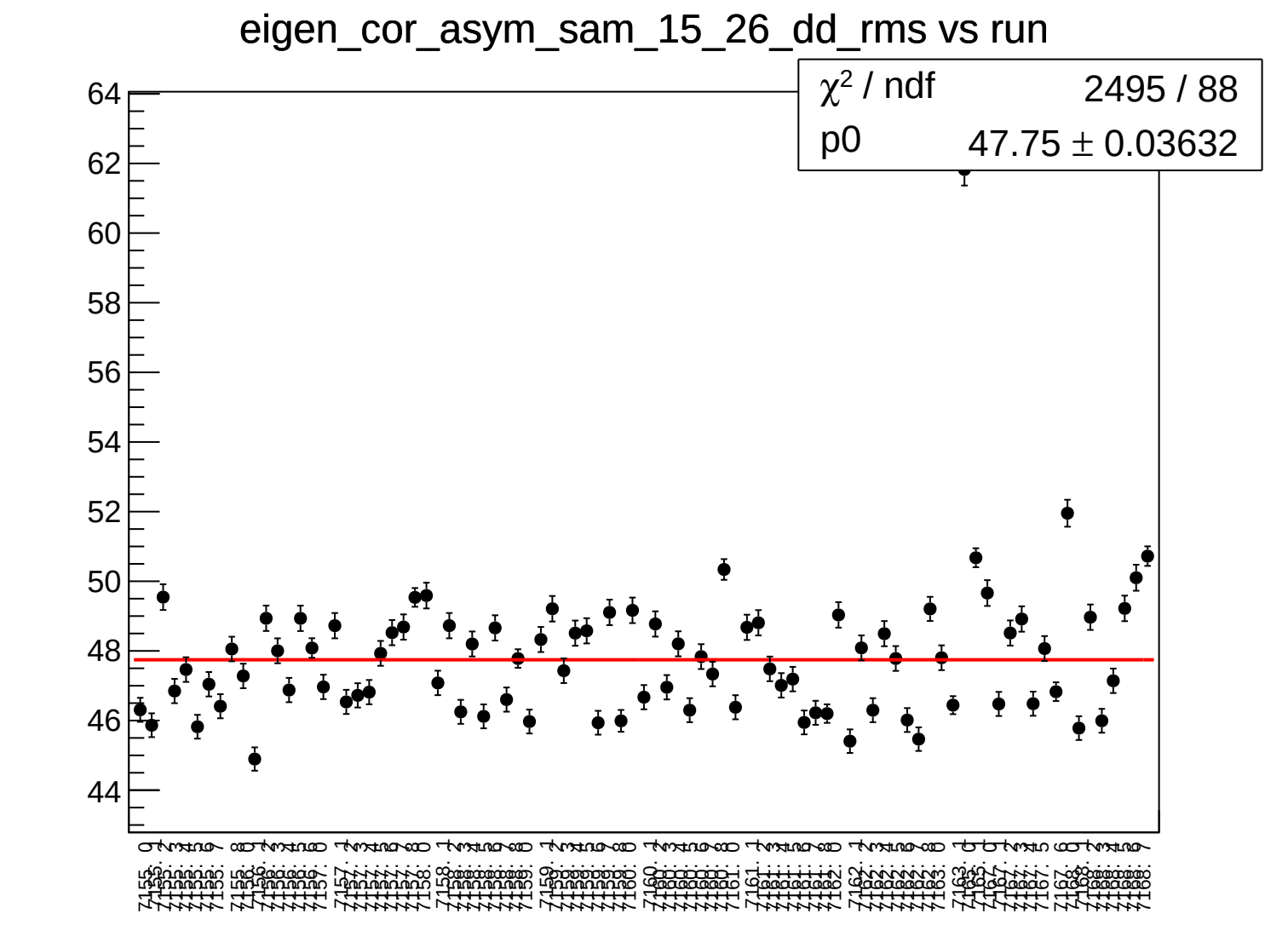

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2495 / 88
p0 47.75 ± 0.03632
64
62
60
58
56
54
52
50
48
46
44

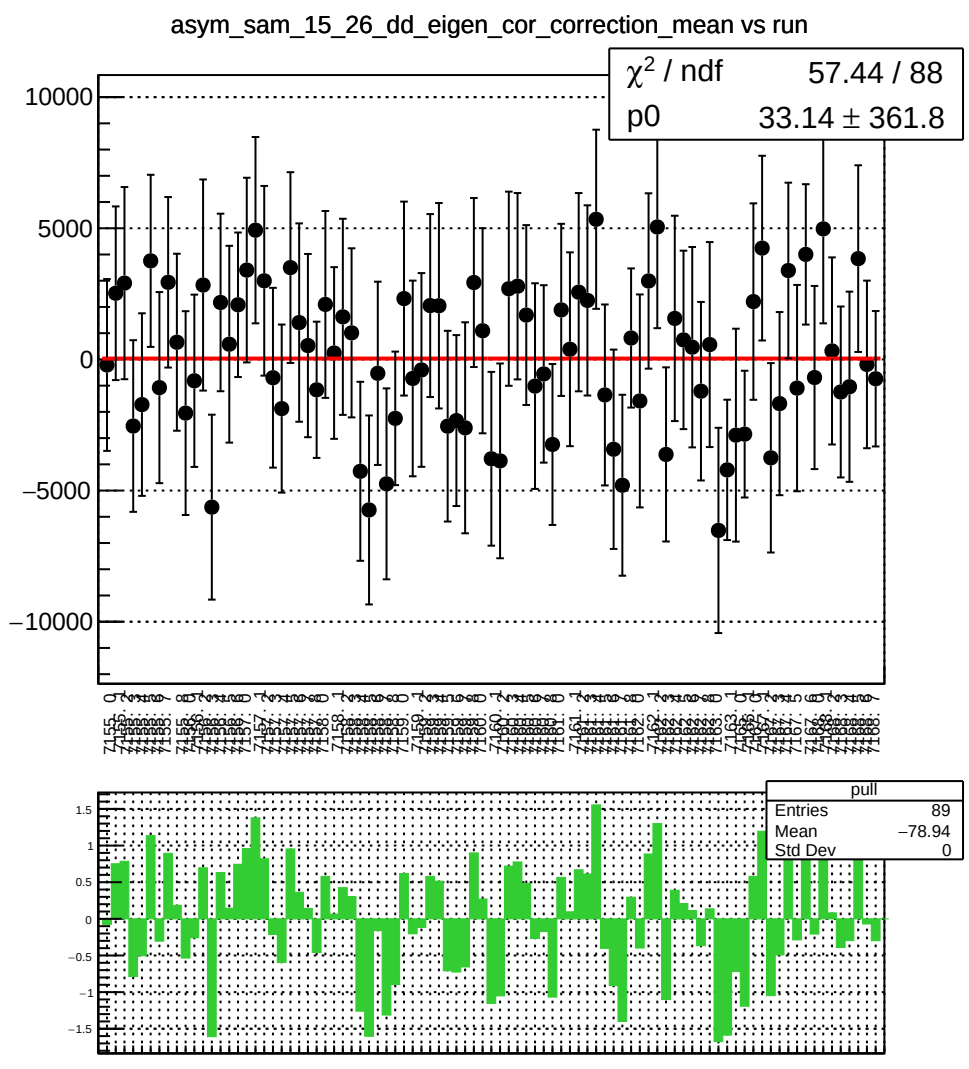

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 57.44 / 88
p0 33.14 ± 361.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −78.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

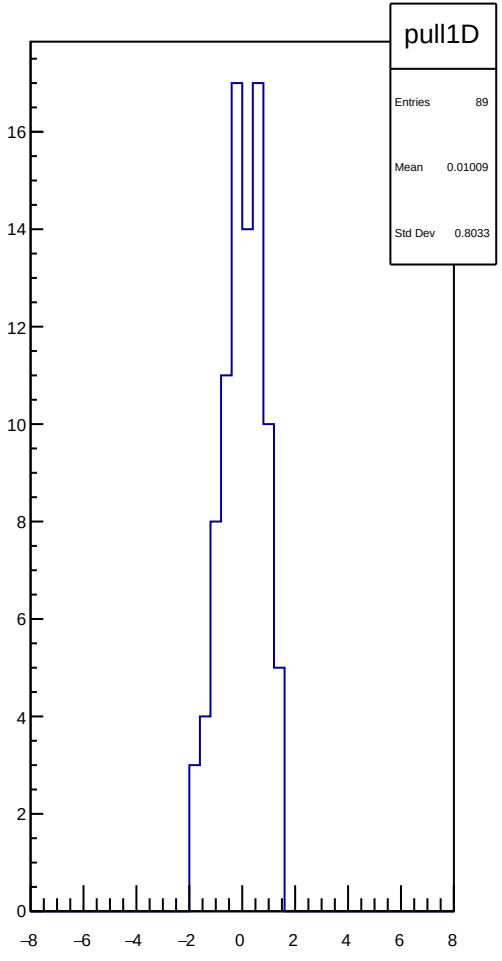

pull1D
Entries 89
Mean 0.01009
Std Dev 0.8033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

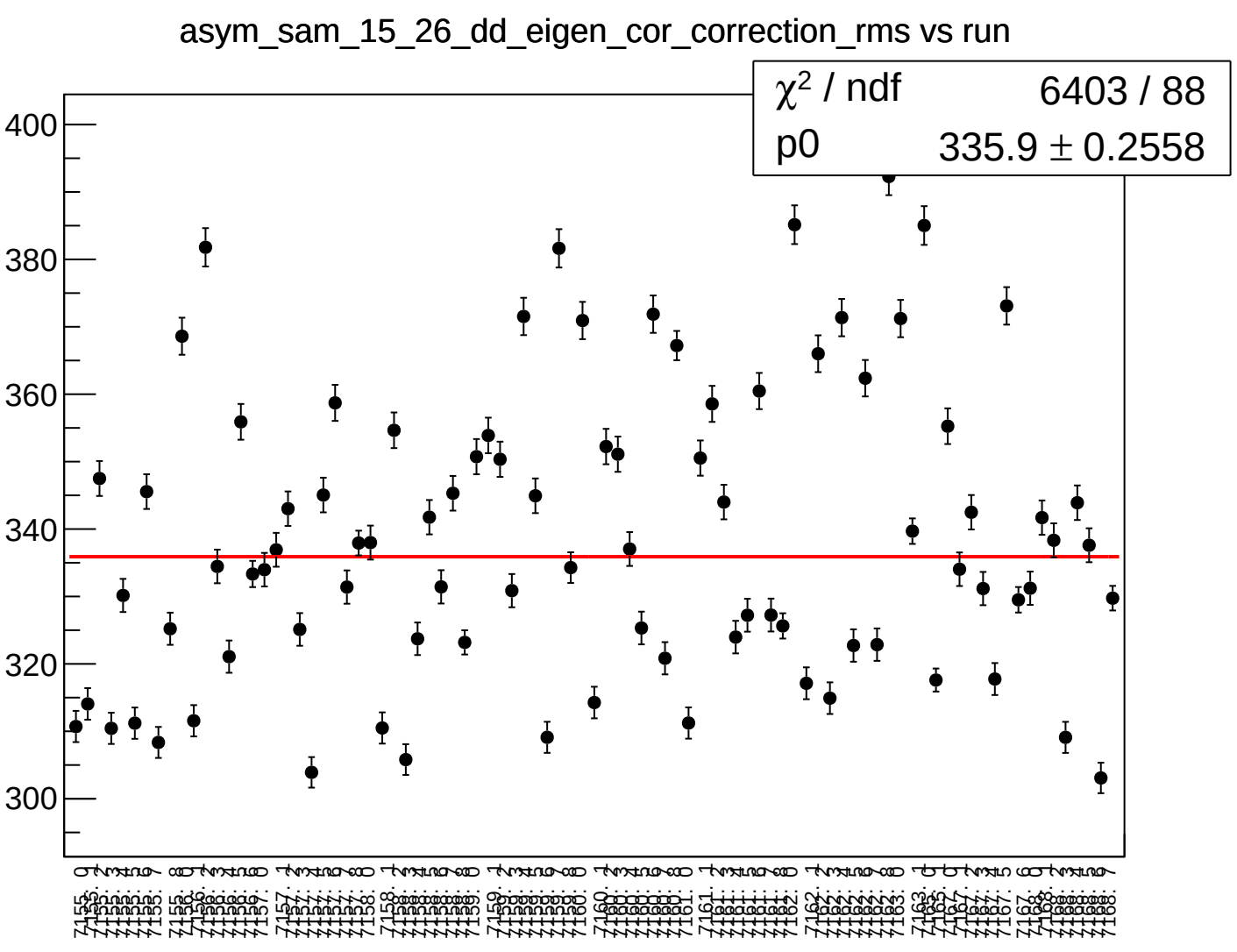

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6403 / 88
p0 335.9 ± 0.2558
400
380
360
340
320
300

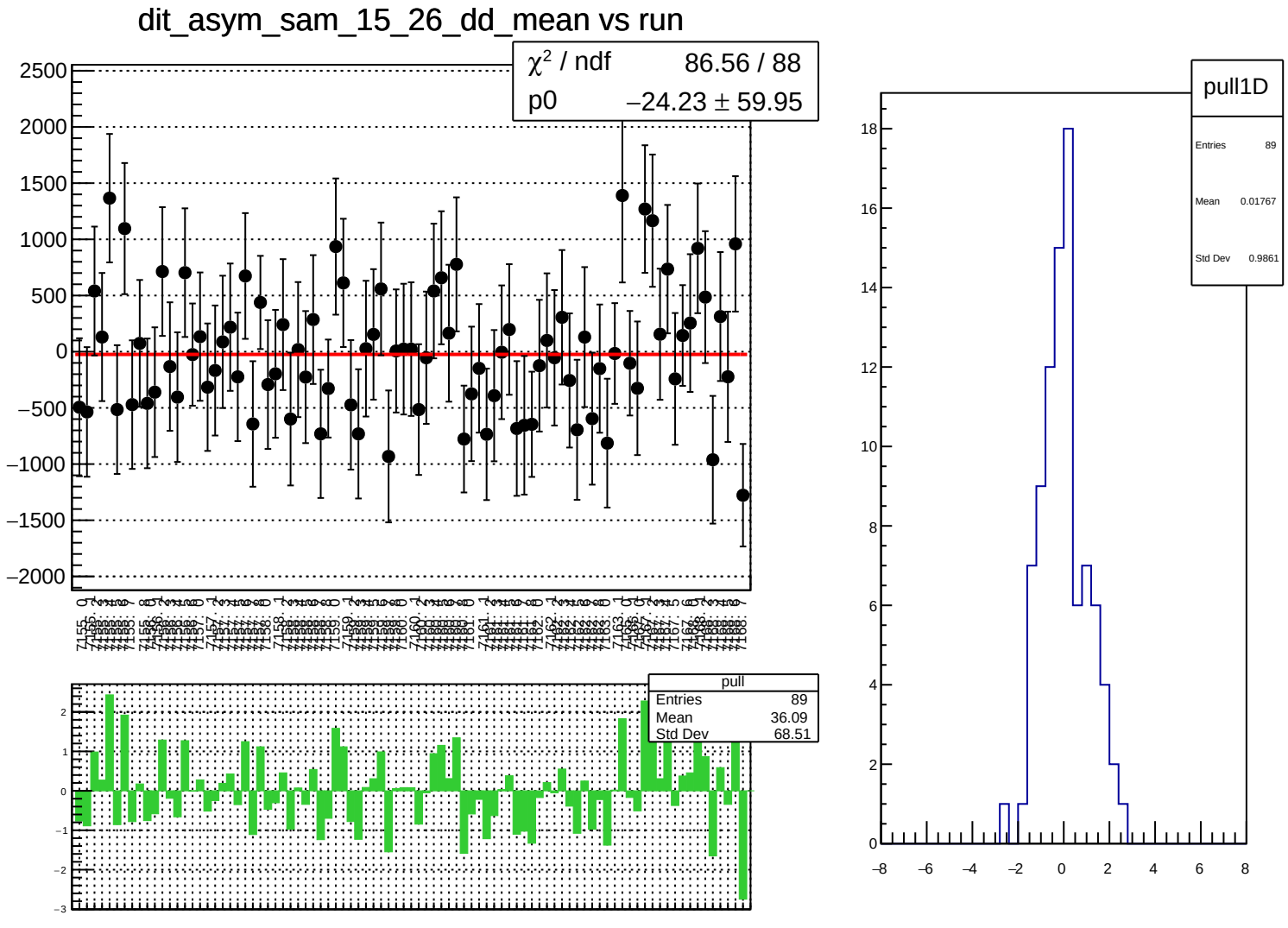

eigen_cor_asym_sam_15_26_dd_mean vs run
χ^2 / ndf 110.9 / 88
p0 −60.8 ± 51.37
pull
Entries 89
Mean 15.15
Std Dev 0
pull1D
Entries 89
Mean 0.01158
Std Dev 1.116

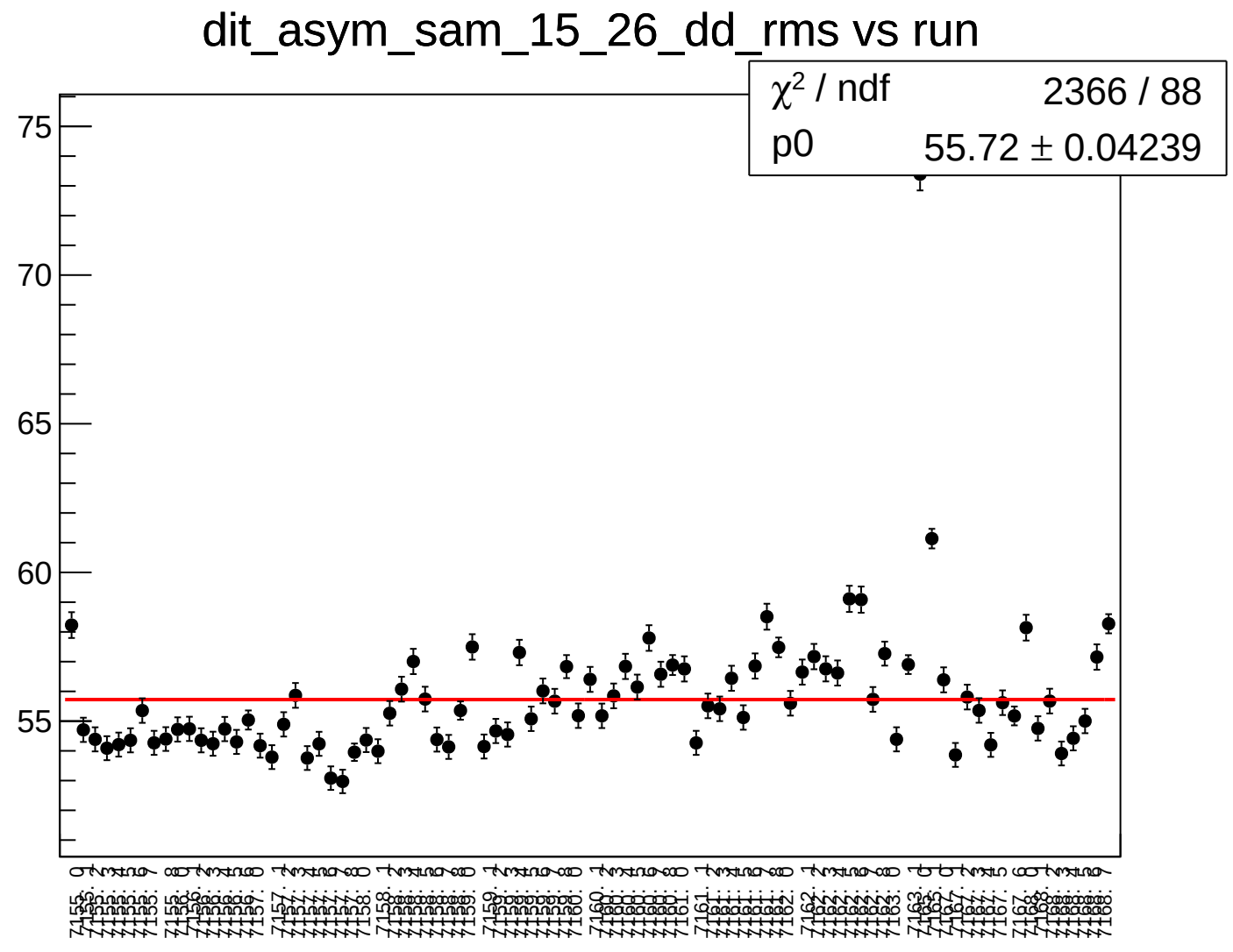

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 2495 / 88
p0 47.75 ± 0.03632
64
62
60
58
56
54
52
50
48
46
44

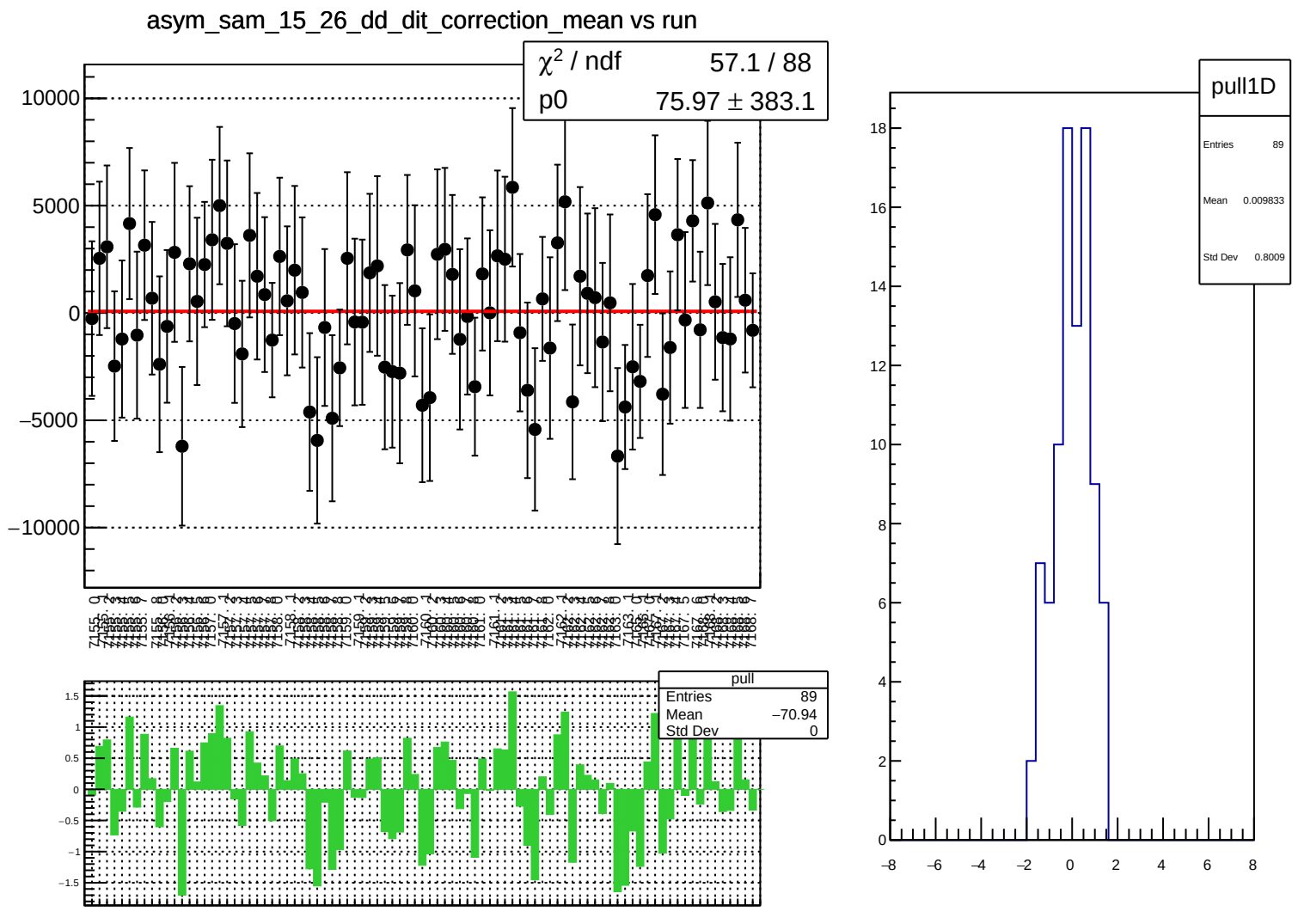

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 57.44 / 88
p0 33.14 ± 361.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −78.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

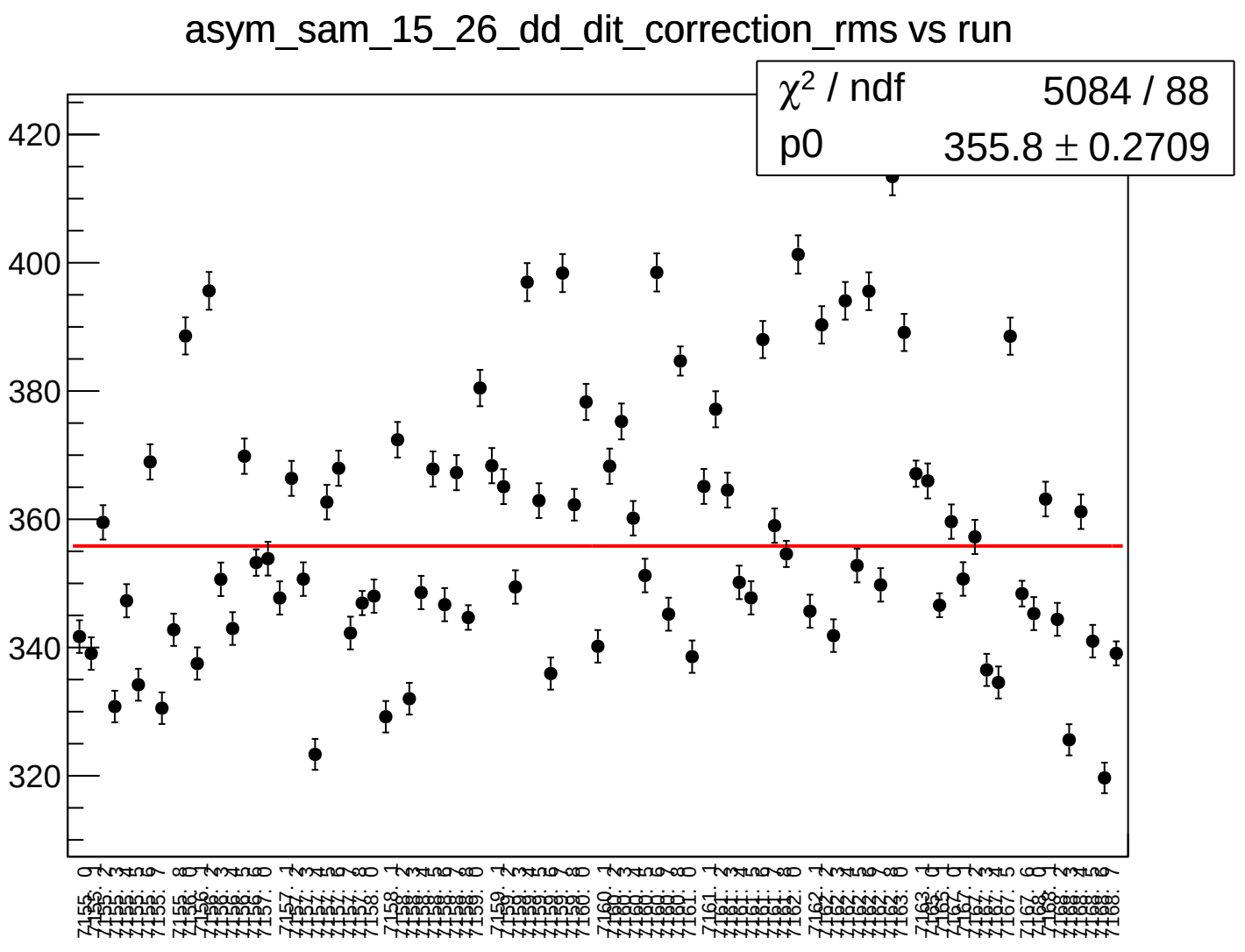

pull1D
Entries 89
Mean 0.01009
Std Dev 0.8033
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

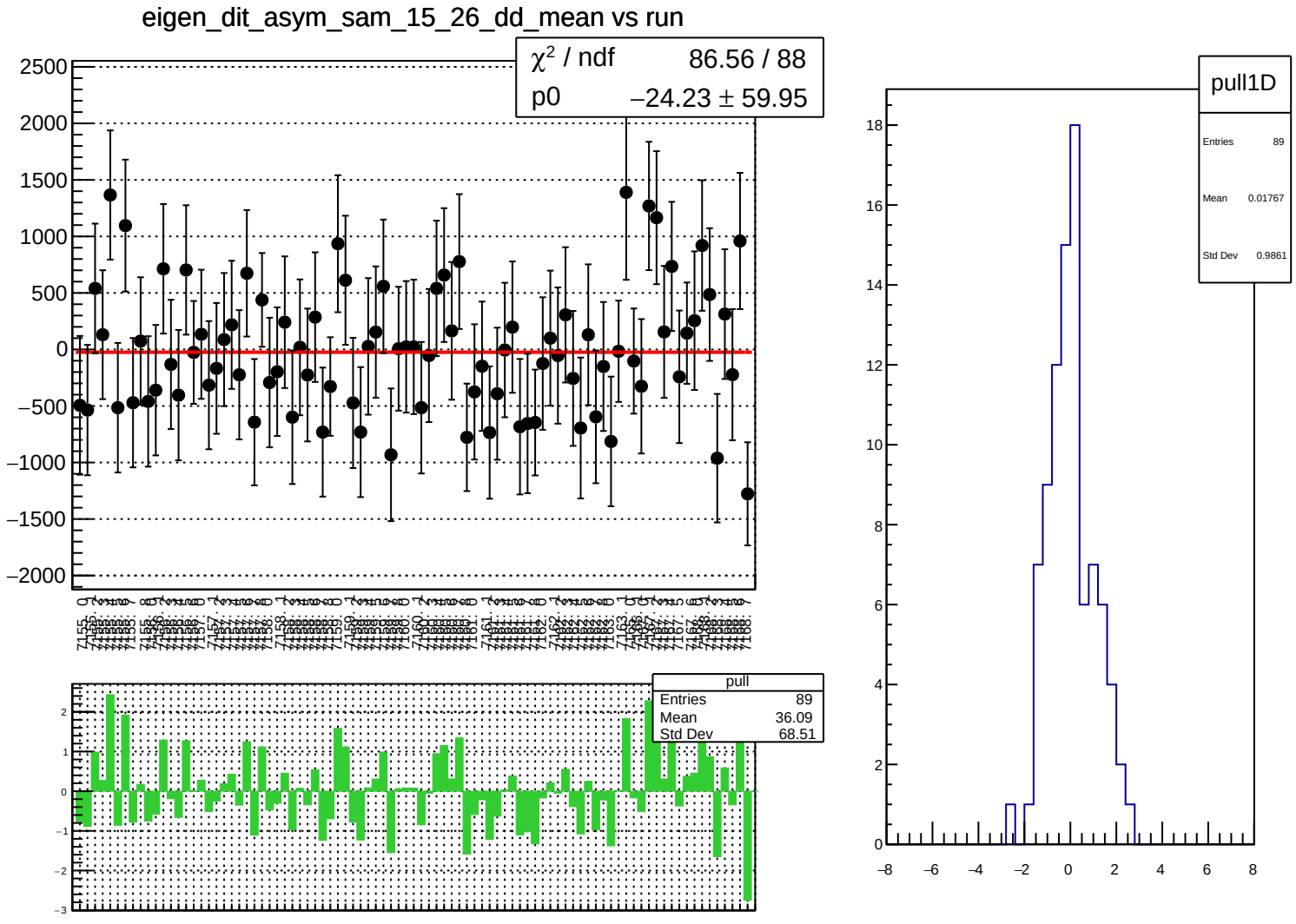

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6403 / 88
p0 335.9 ± 0.2558
400
380
360
340
320
300

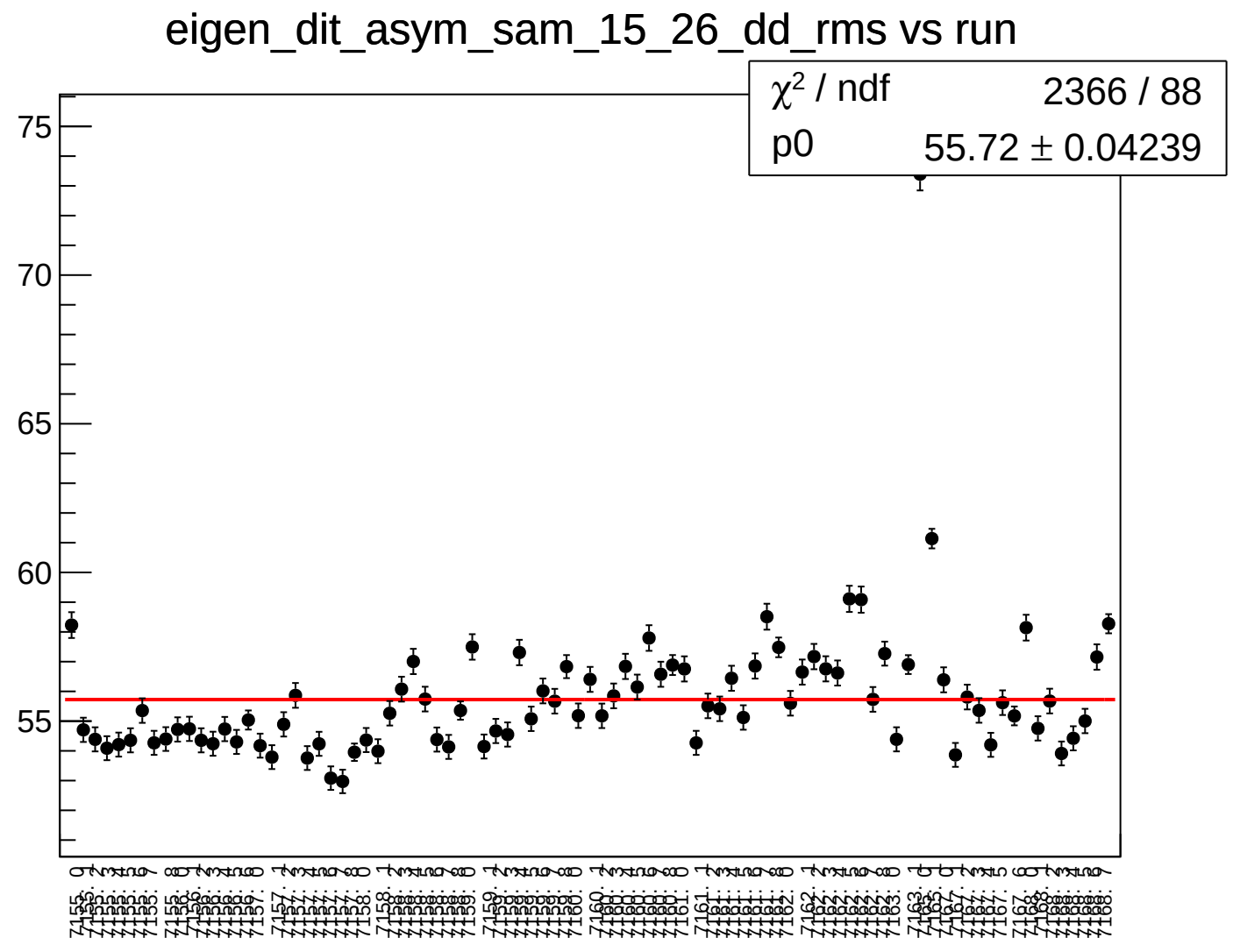

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.56 / 88
p0 −24.23 ± 59.95
pull
Entries 89
Mean 36.09
Std Dev 68.51
pull1D
Entries 89
Mean 0.01767
Std Dev 0.9861

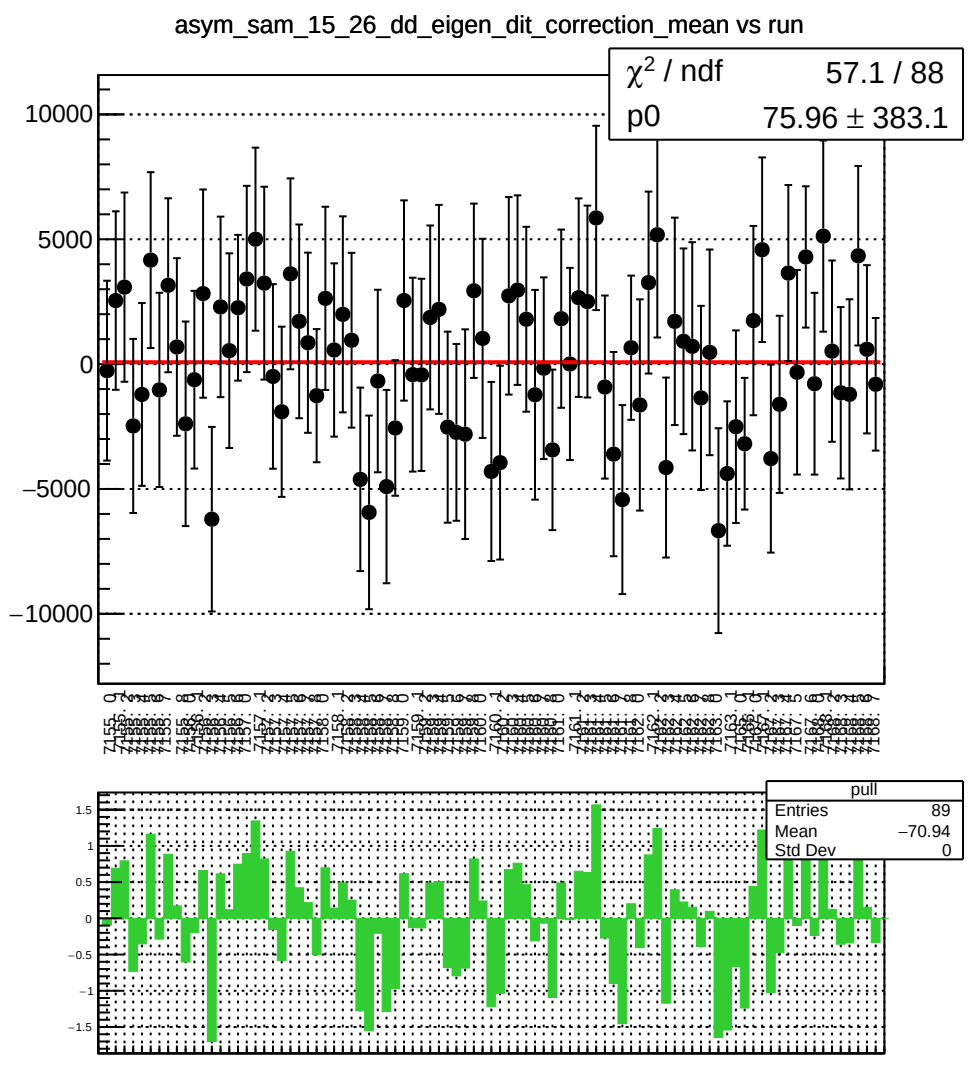

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2366 / 88
p0 55.72 ± 0.04239
75
70
65
60
55

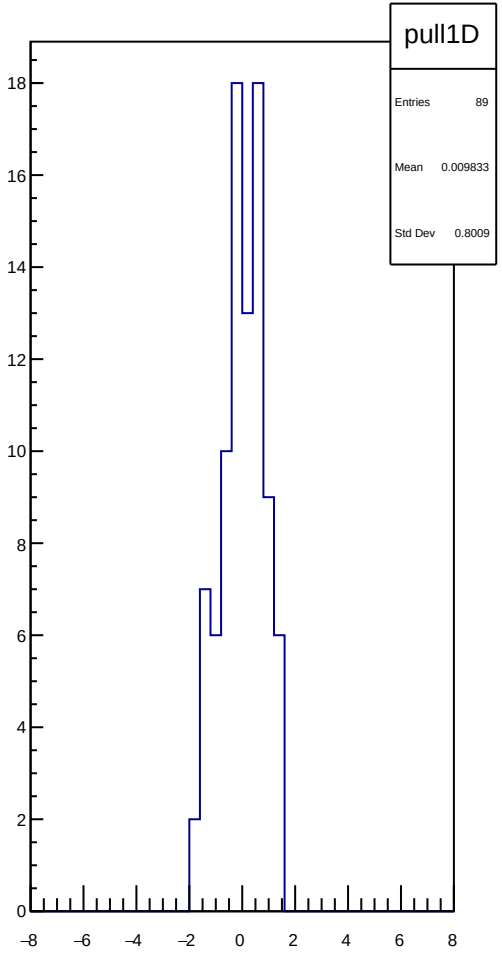

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 57.1 / 88
p0 75.97 ± 383.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −70.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.009833
Std Dev 0.8009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

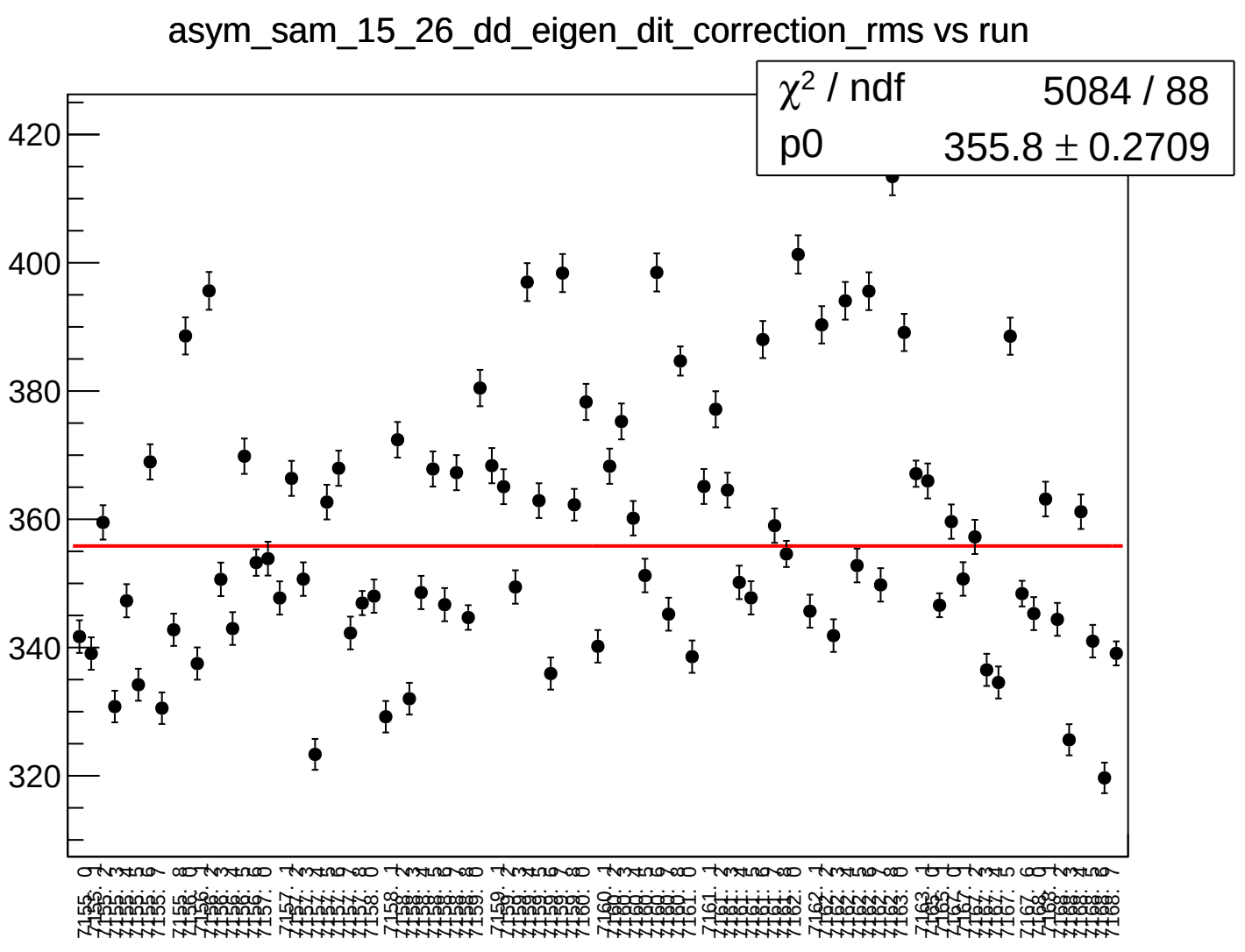

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 5084 / 88
p0 355.8 ± 0.2709
420
400
380
360
340
320

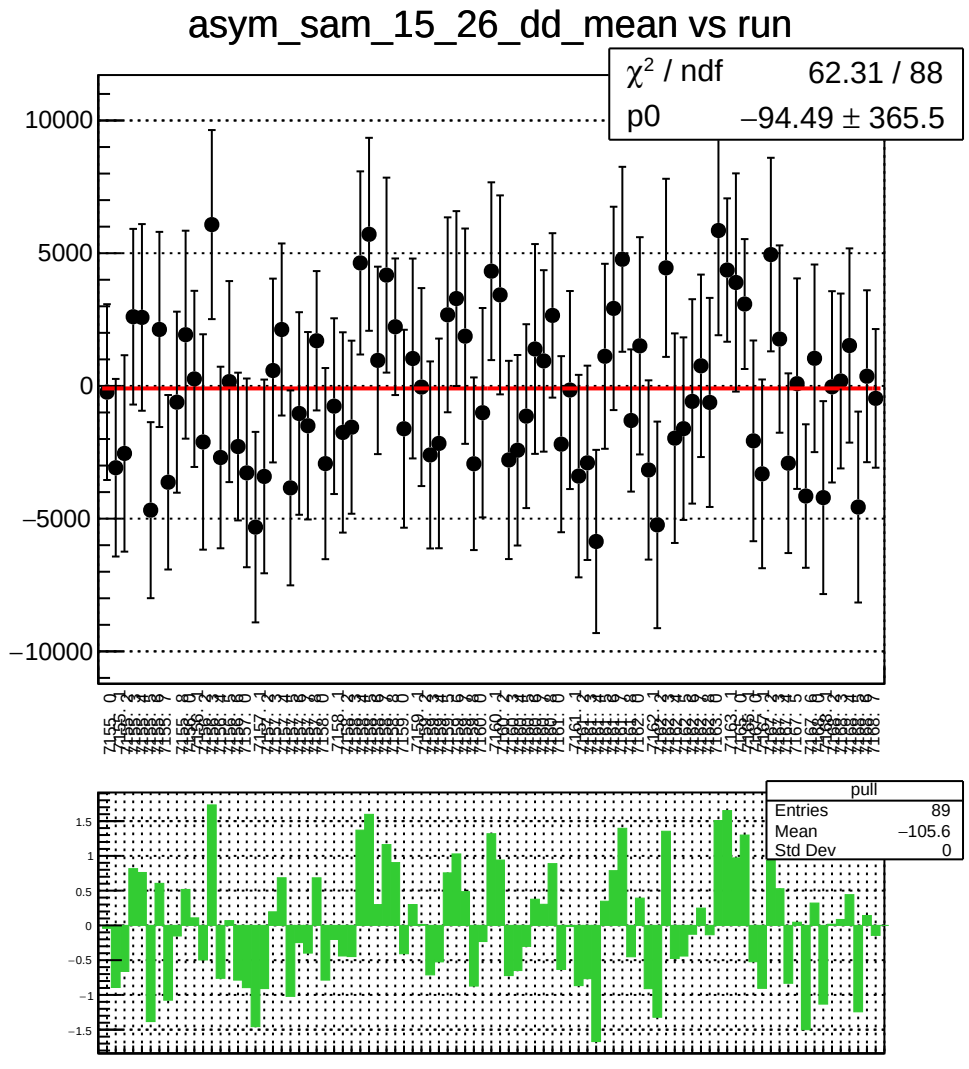

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.56 / 88
p0 −24.23 ± 59.95
pull
Entries 89
Mean 36.09
Std Dev 68.51
pull1D
Entries 89
Mean 0.01767
Std Dev 0.9861

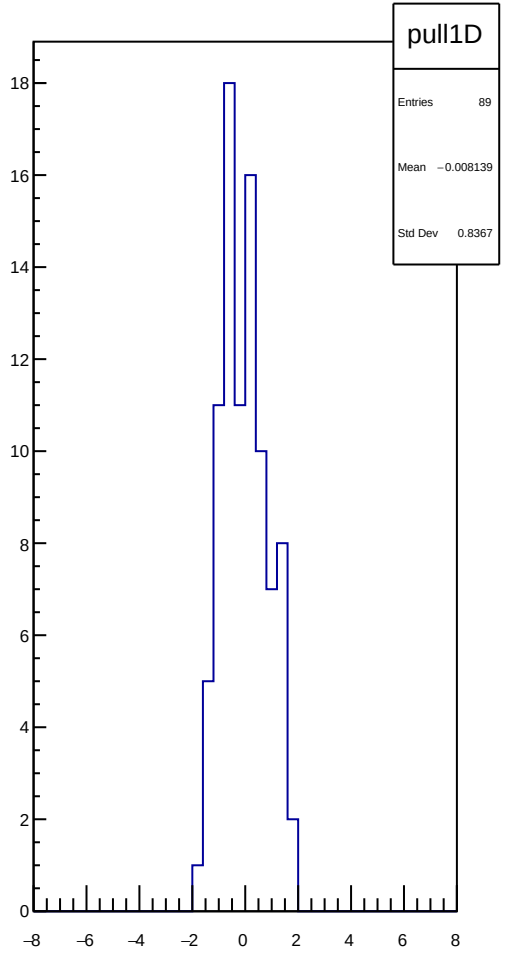

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2366 / 88
p0 55.72 ± 0.04239
75
70
65
60
55

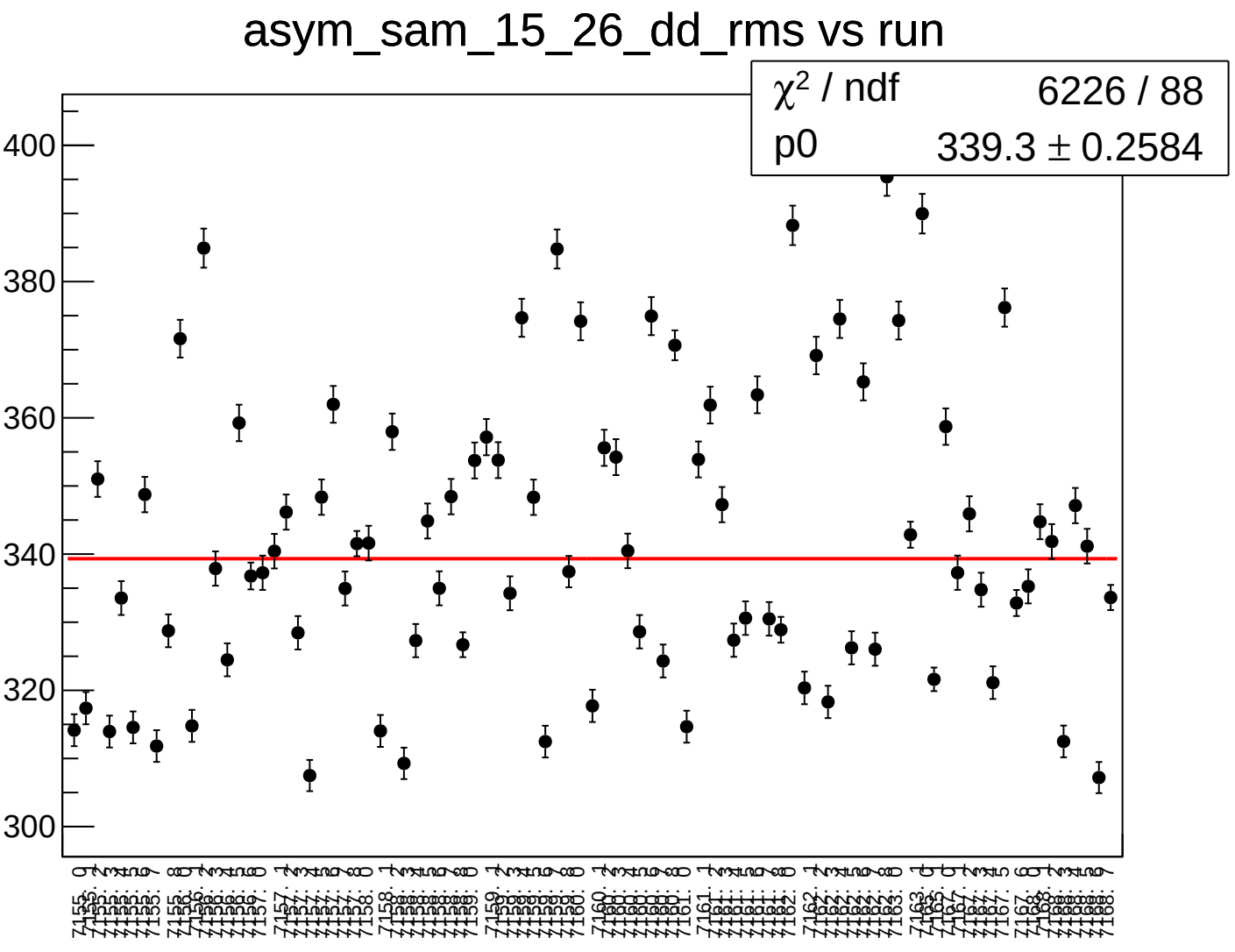

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 57.1 / 88
p0 75.96 ± 383.1
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −70.94
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

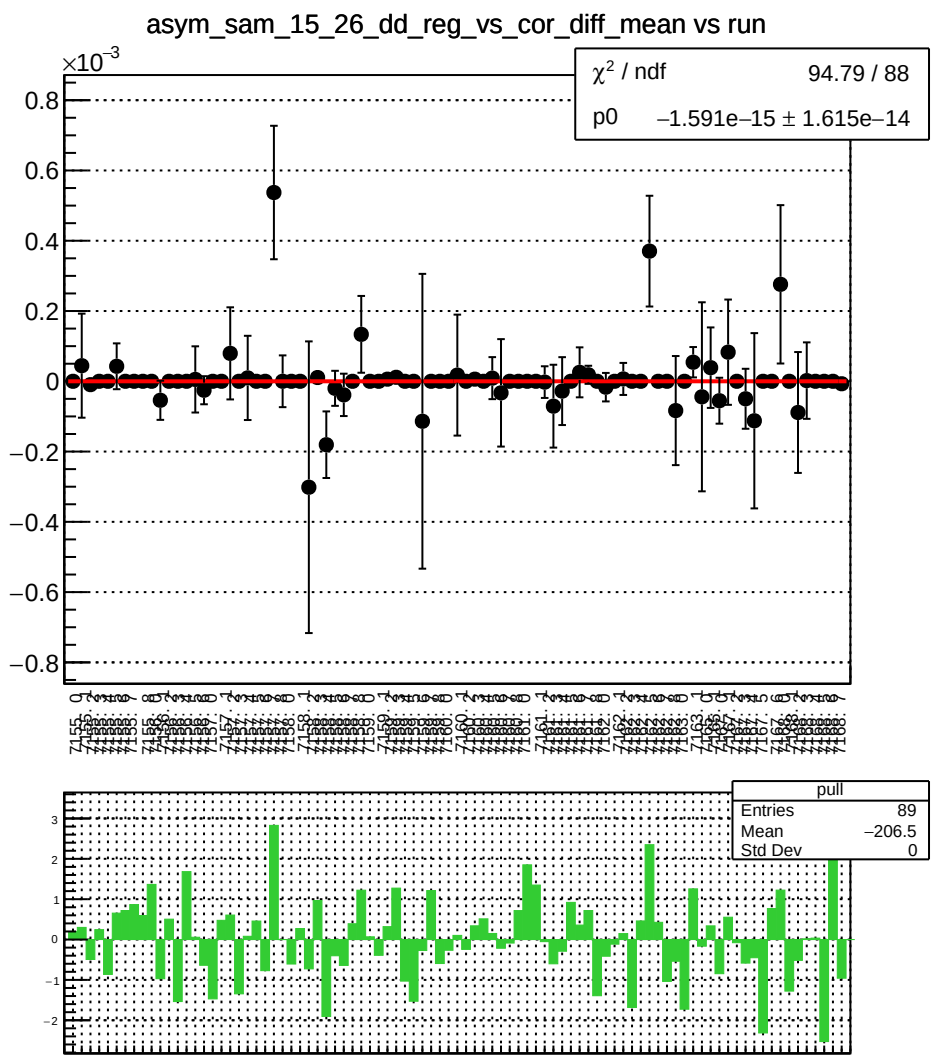

pull1D
Entries 89
Mean 0.009833
Std Dev 0.8009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

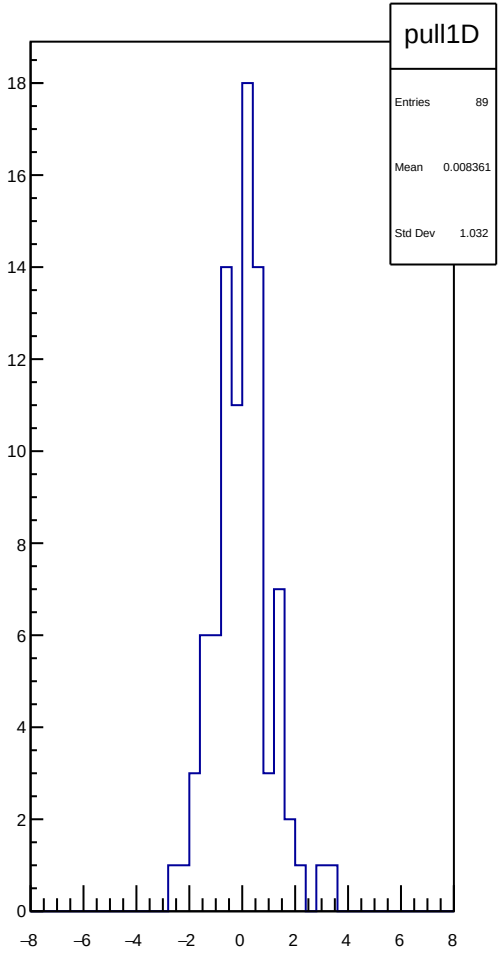

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 5084 / 88
p0 355.8 ± 0.2709
420
400
380
360
340
320

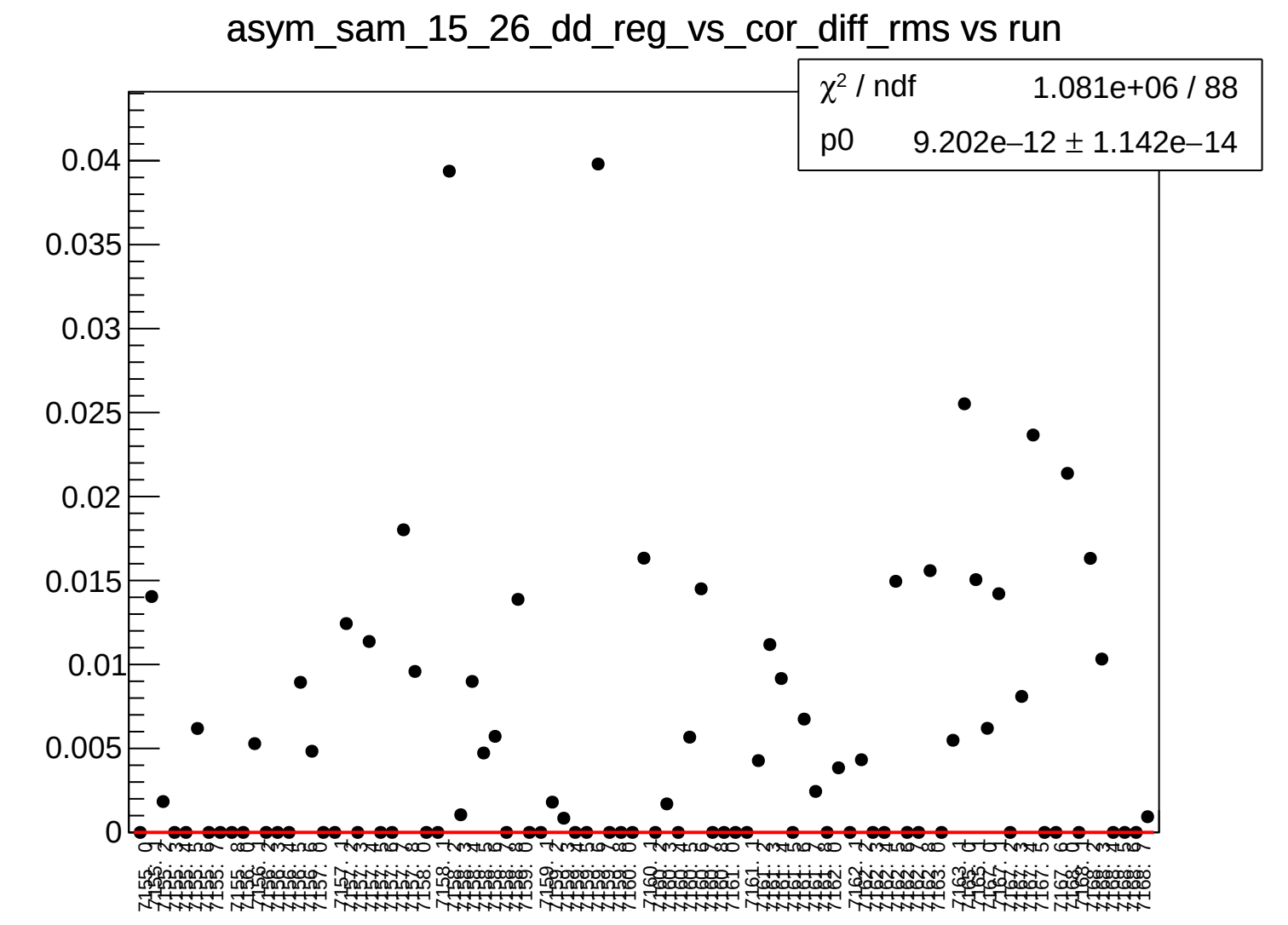

asym_sam_15_26_dd_mean vs run
χ² / ndf 62.31 / 88
p0 −94.49 ± 365.5
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −105.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

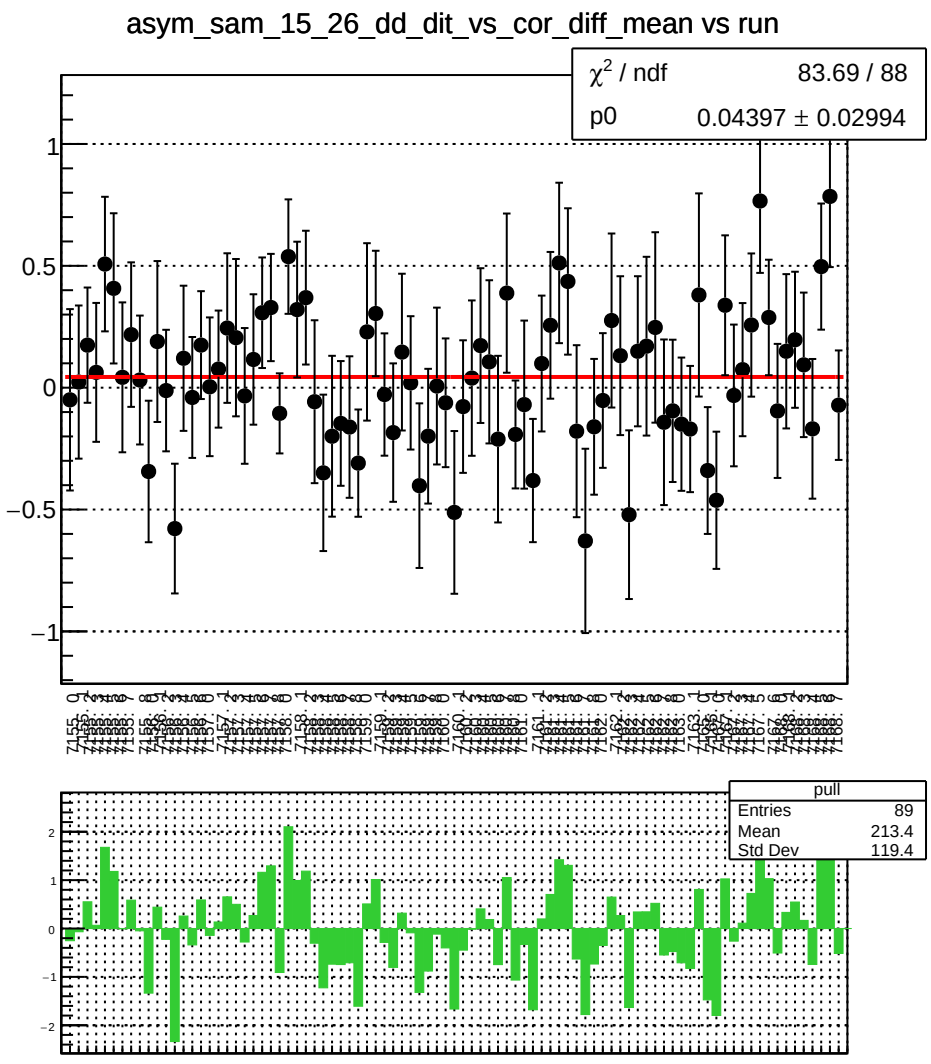

pull1D
Entries 89
Mean −0.008139
Std Dev 0.8367
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

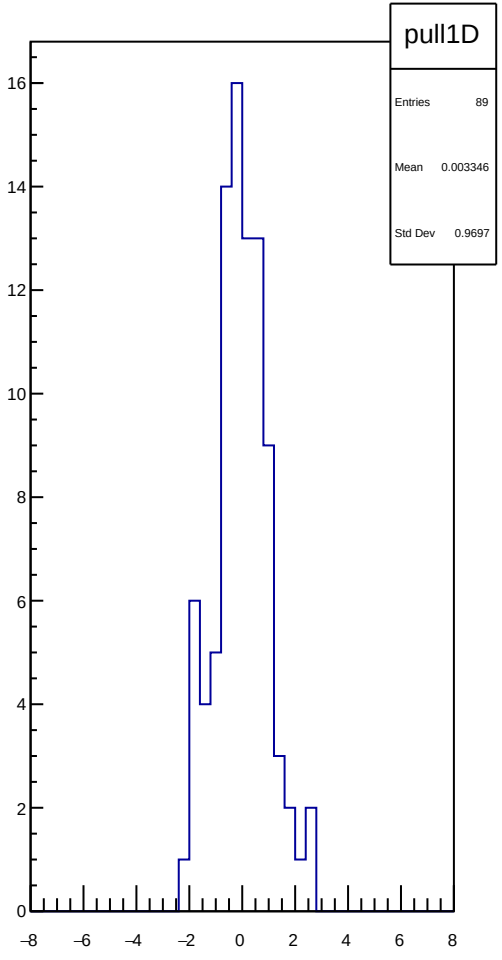

asym_sam_15_26_dd_rms vs run
χ² / ndf 6226 / 88
p0 339.3 ± 0.2584
400
380
360
340
320
300

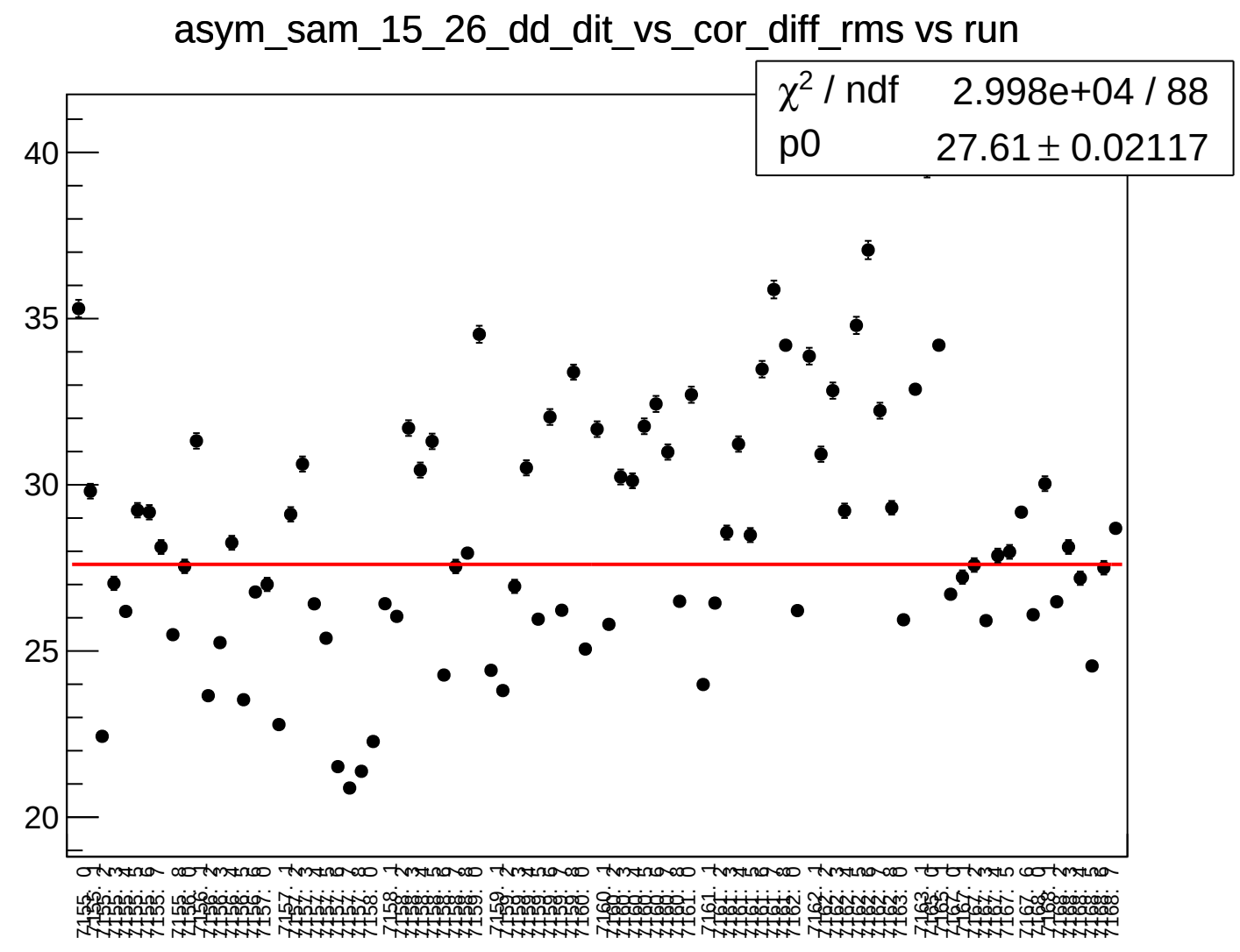

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 94.79 / 88
p0 −1.591e−15 ± 1.615e−14
pull
Entries 89
Mean −206.5
Std Dev 0

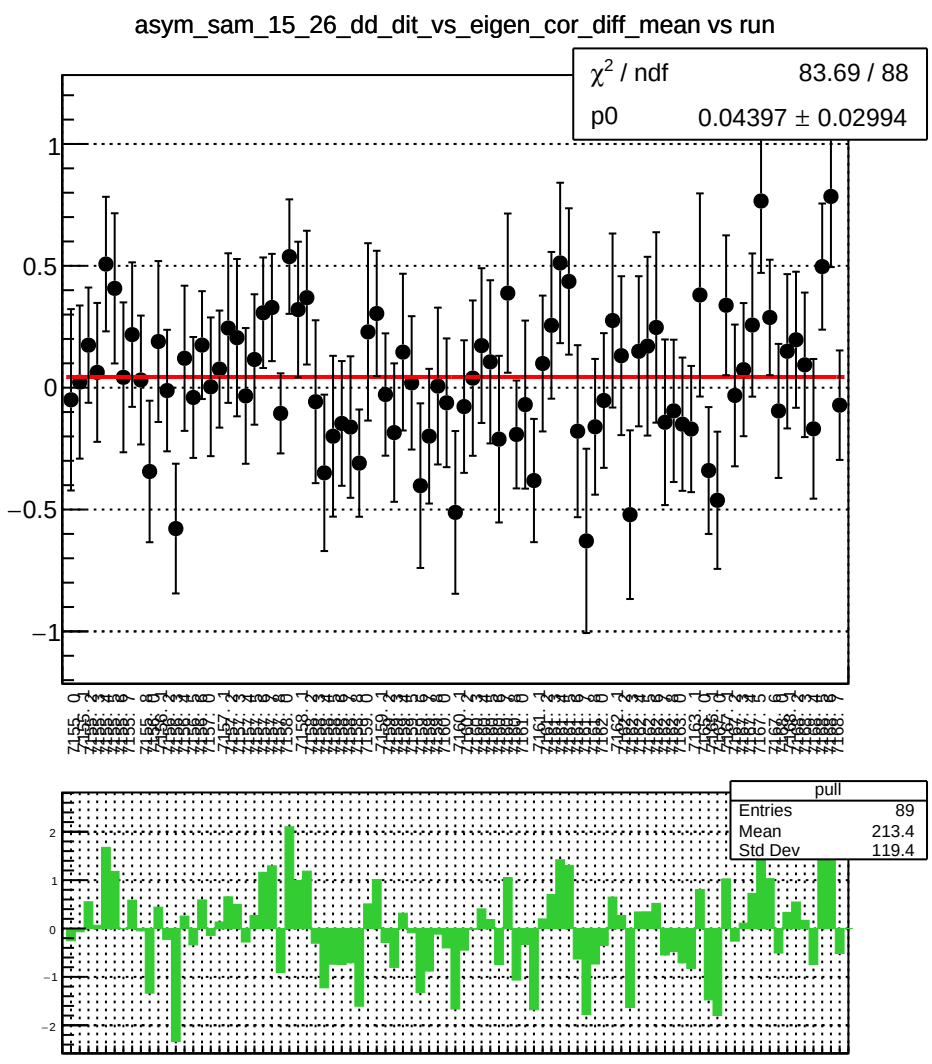

pull1D
Entries 89
Mean 0.008361
Std Dev 1.032

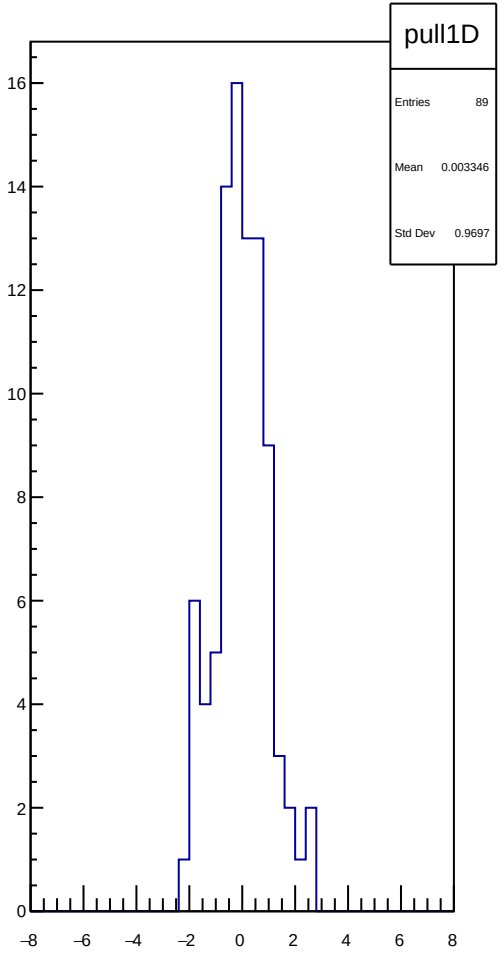

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.081e+06 / 88
p0 9.202e−12 ± 1.142e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

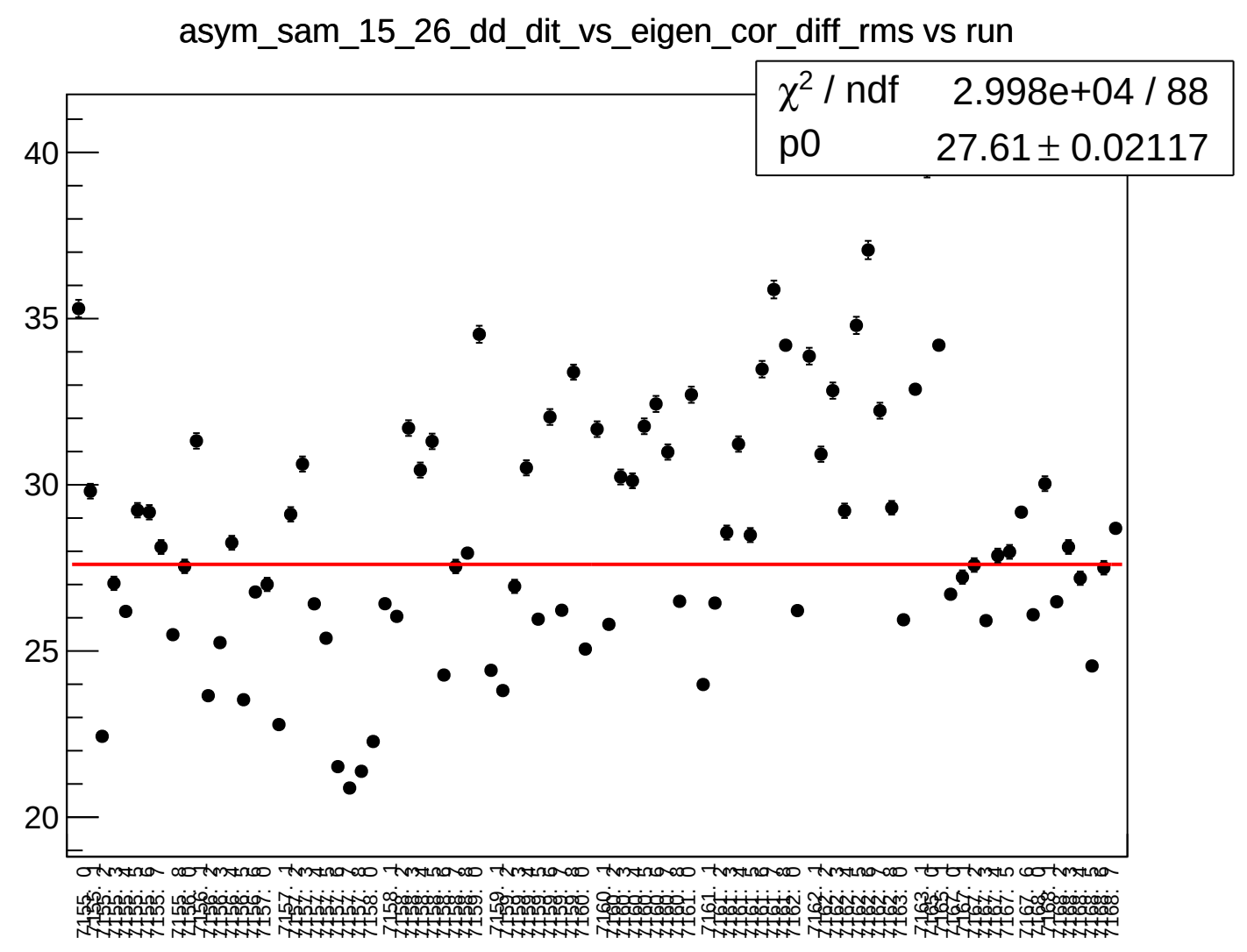

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.04397 ± 0.02994
pull
Entries 89
Mean 213.4
Std Dev 119.4

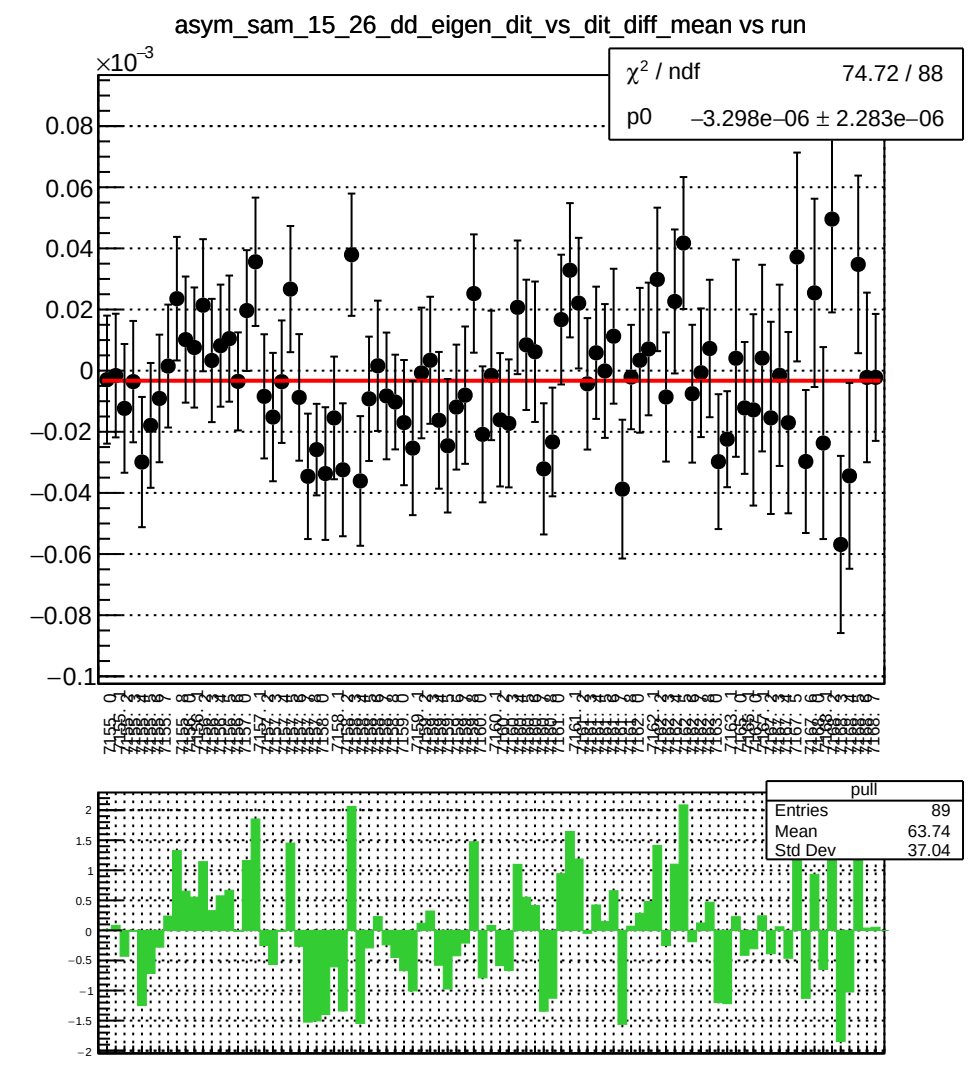

pull1D
Entries 89
Mean 0.003346
Std Dev 0.9697

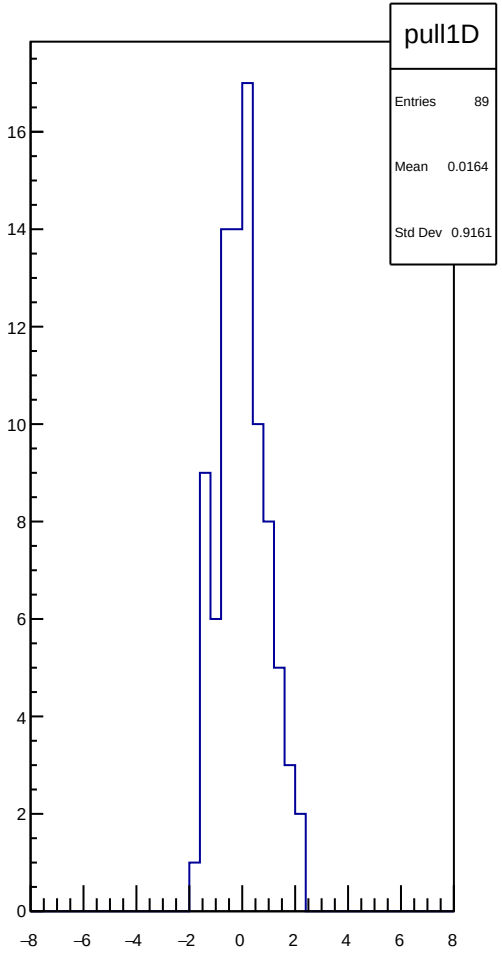

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.998e+04 / 88
p0 27.61 ± 0.02117
40
35
30
25
20

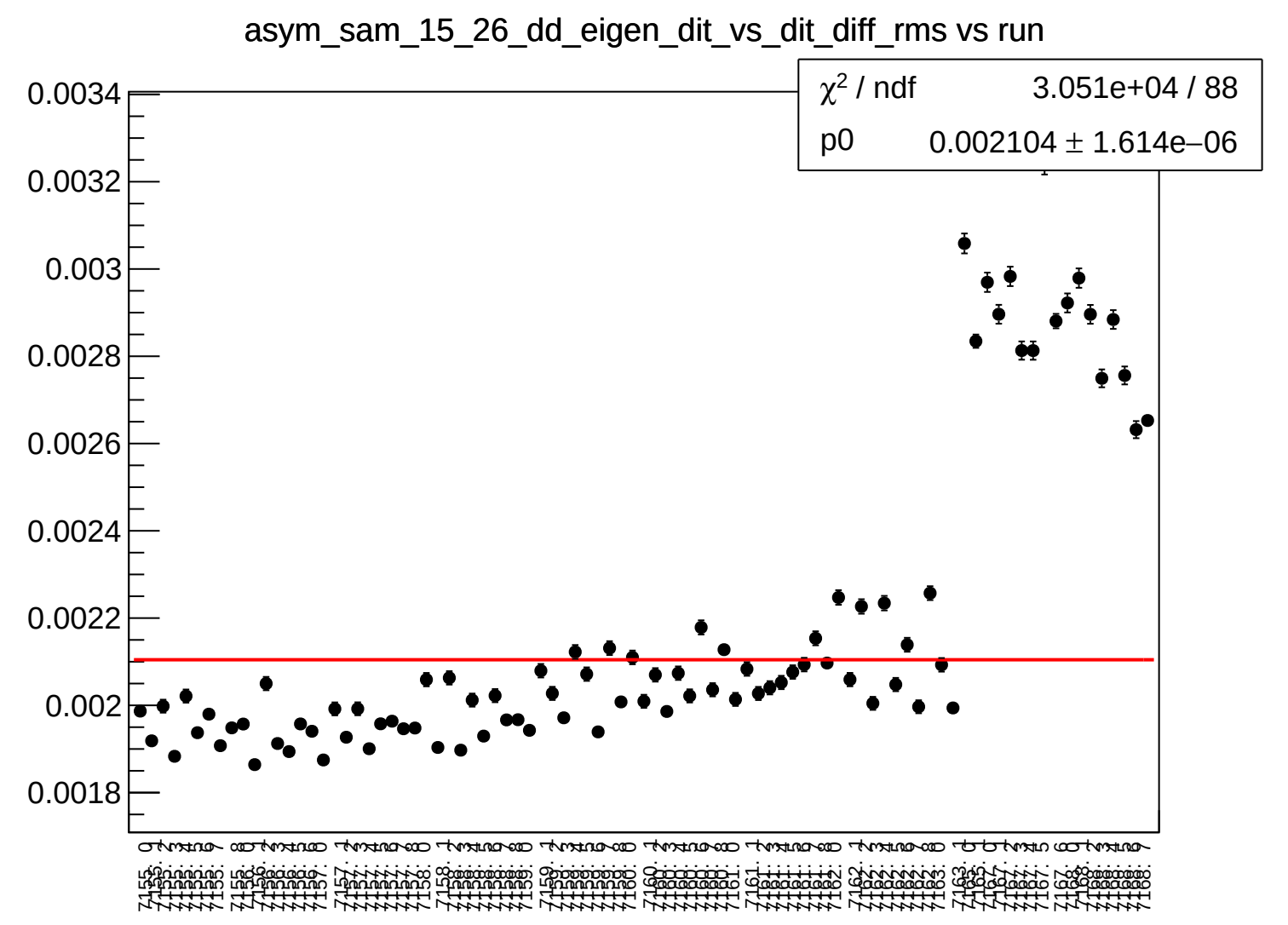

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.04397 ± 0.02994
pull
Entries 89
Mean 213.4
Std Dev 119.4

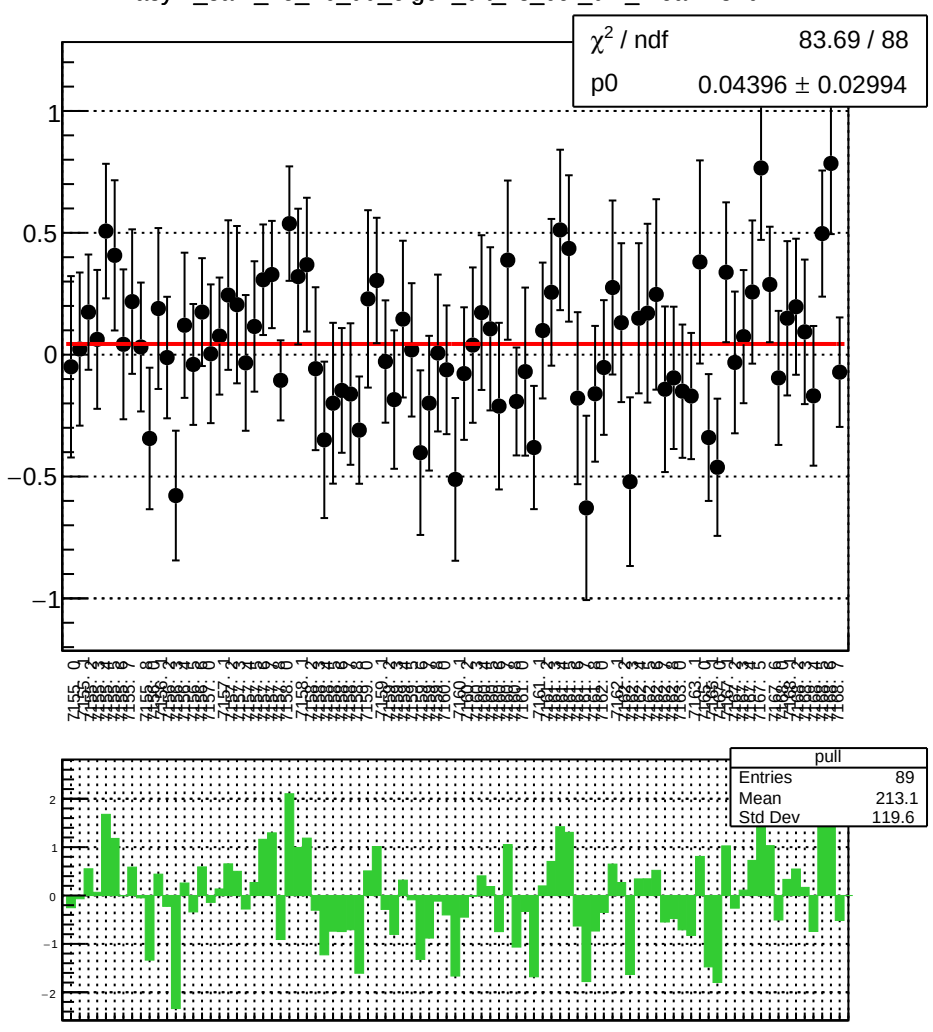

pull1D
Entries 89
Mean 0.003346
Std Dev 0.9697

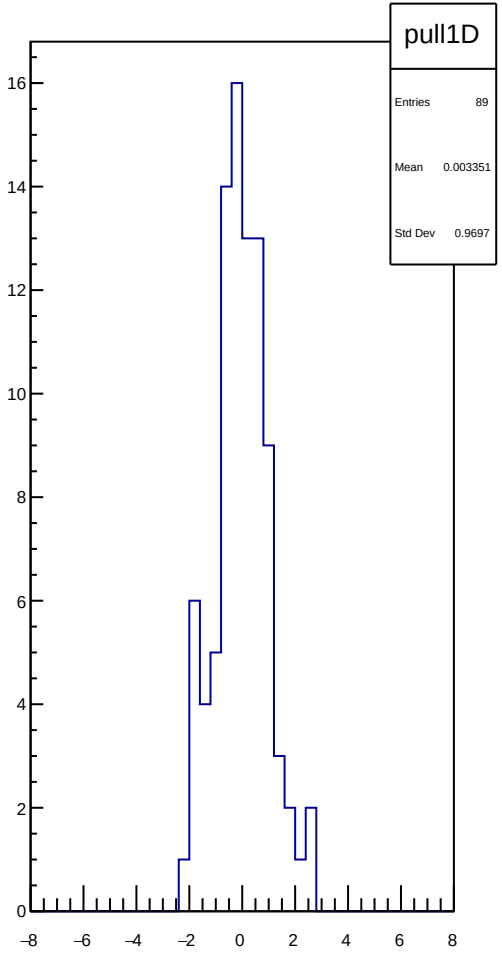

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.998e+04 / 88
p0 27.61 ± 0.02117
40
35
30
25
20

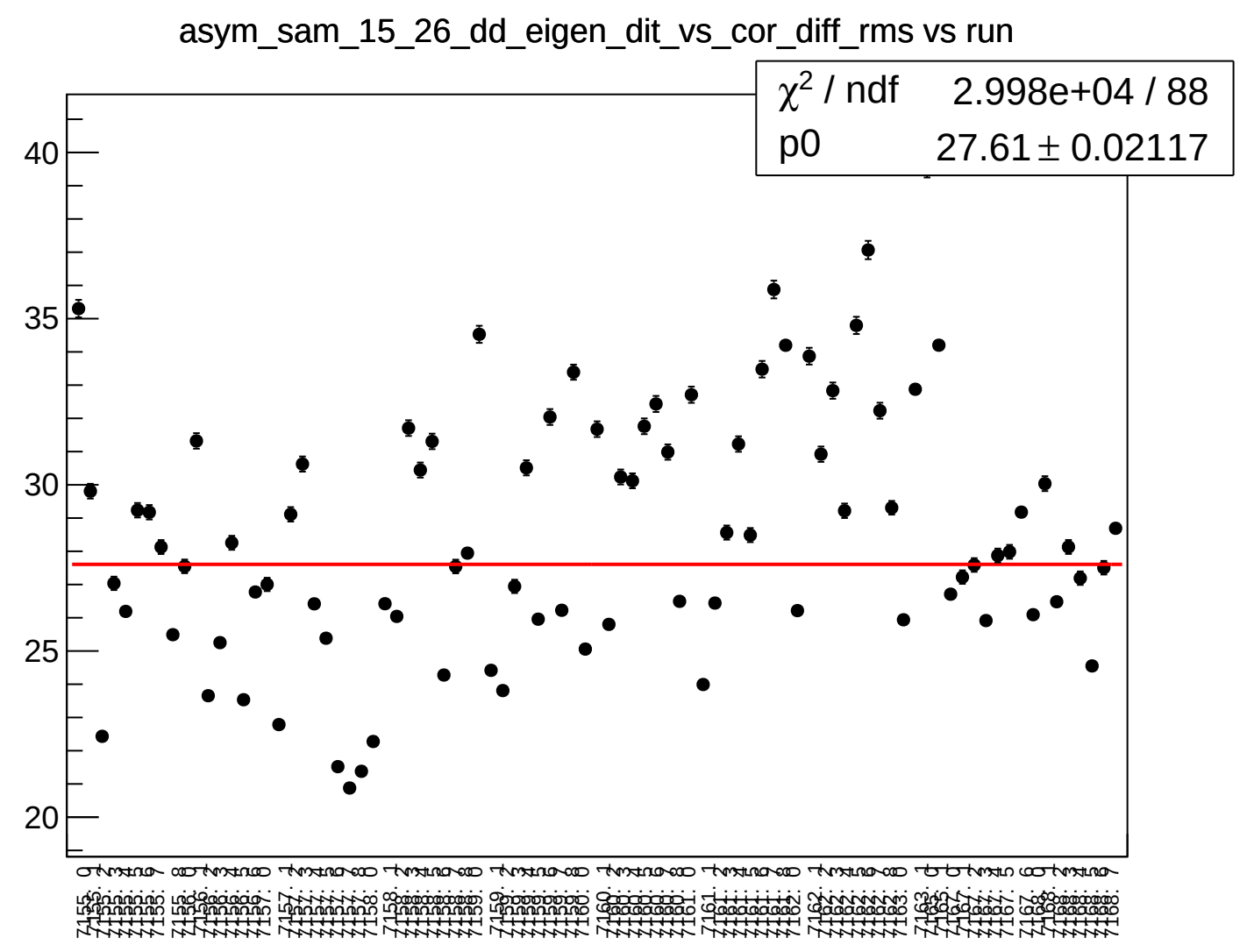

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.72 / 88
p0 −3.298e−06 ± 2.283e−06
pull
Entries 89
Mean 63.74
Std Dev 37.04

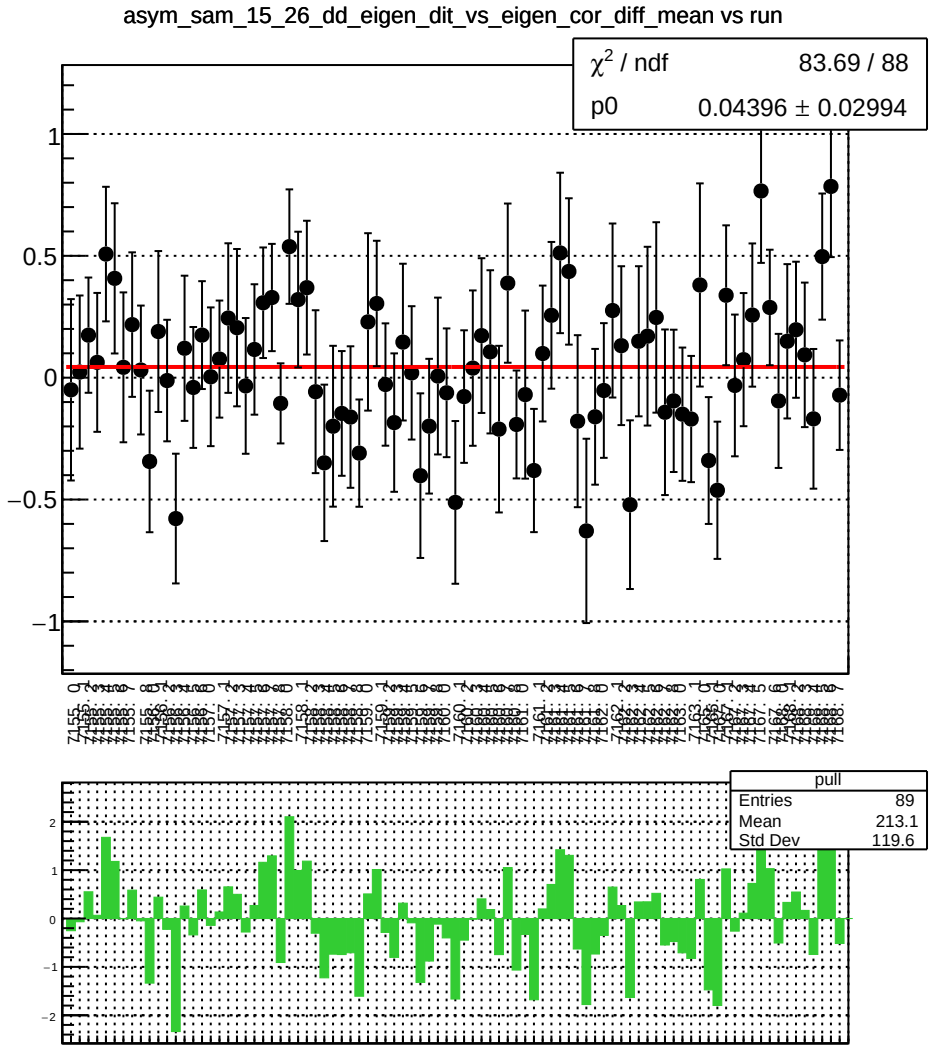

pull1D
Entries 89
Mean 0.0164
Std Dev 0.9161

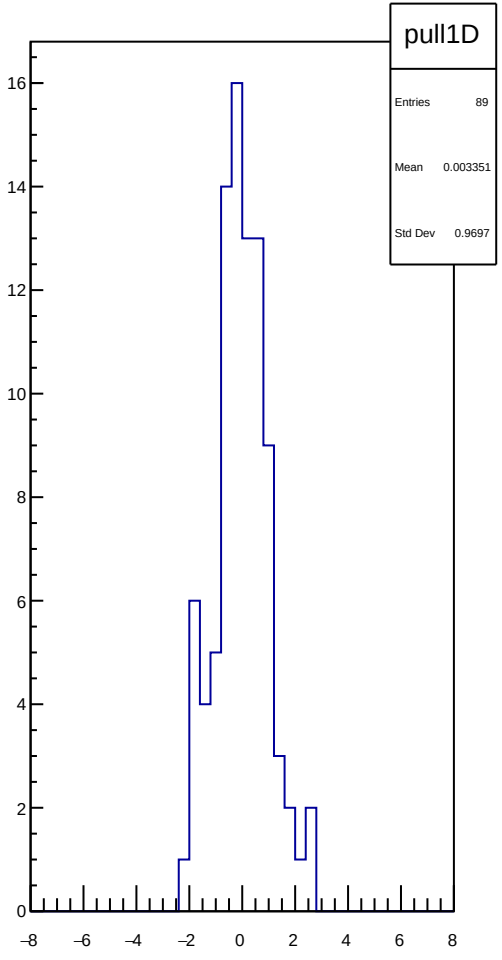

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.051e+04 / 88
p0 0.002104 ± 1.614e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

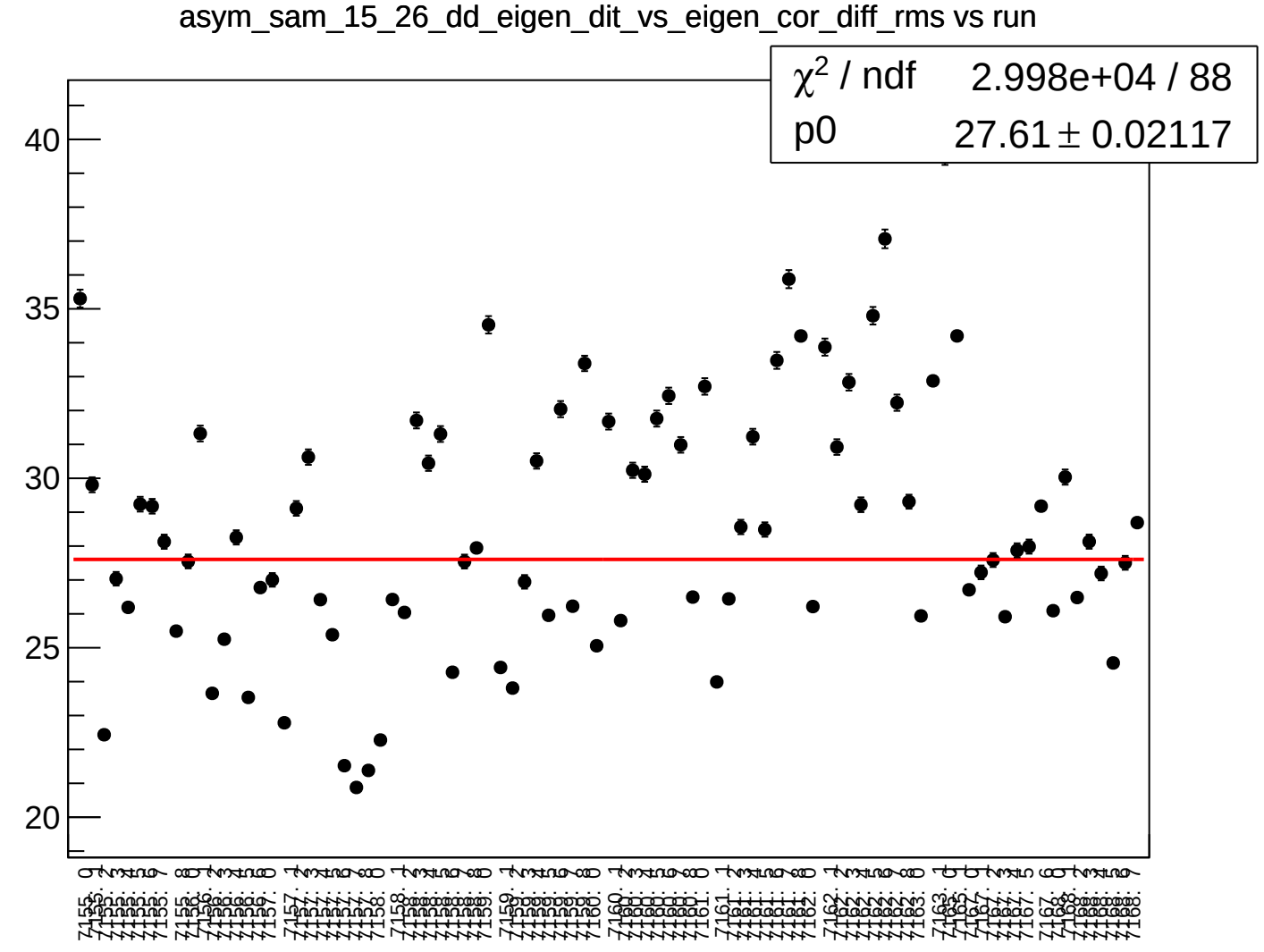

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.04396 ± 0.02994
pull
Entries 89
Mean 213.1
Std Dev 119.6

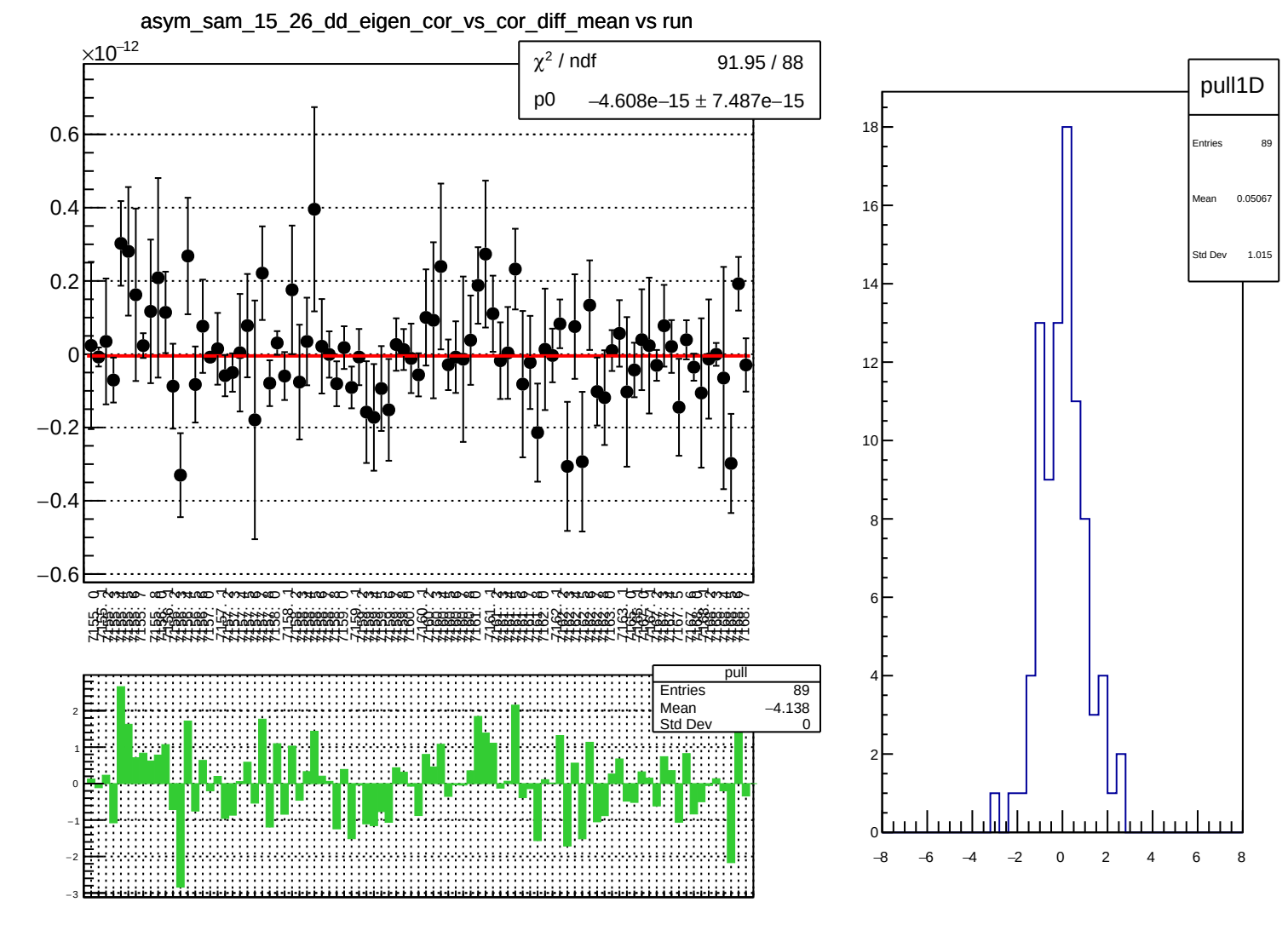

pull1D
Entries 89
Mean 0.003351
Std Dev 0.9697

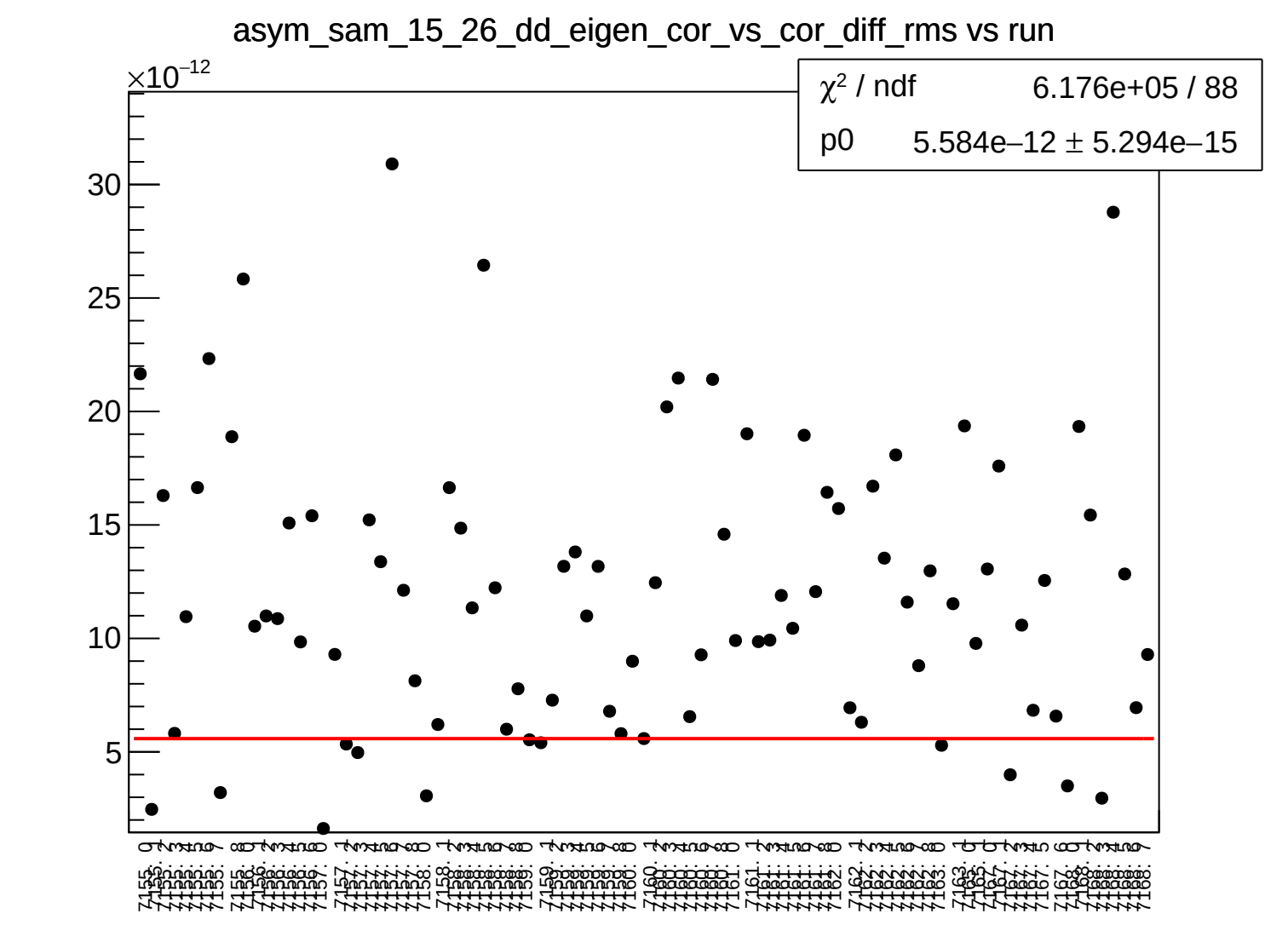

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.998e+04 / 88
p0 27.61 ± 0.02117
40
35
30
25
20

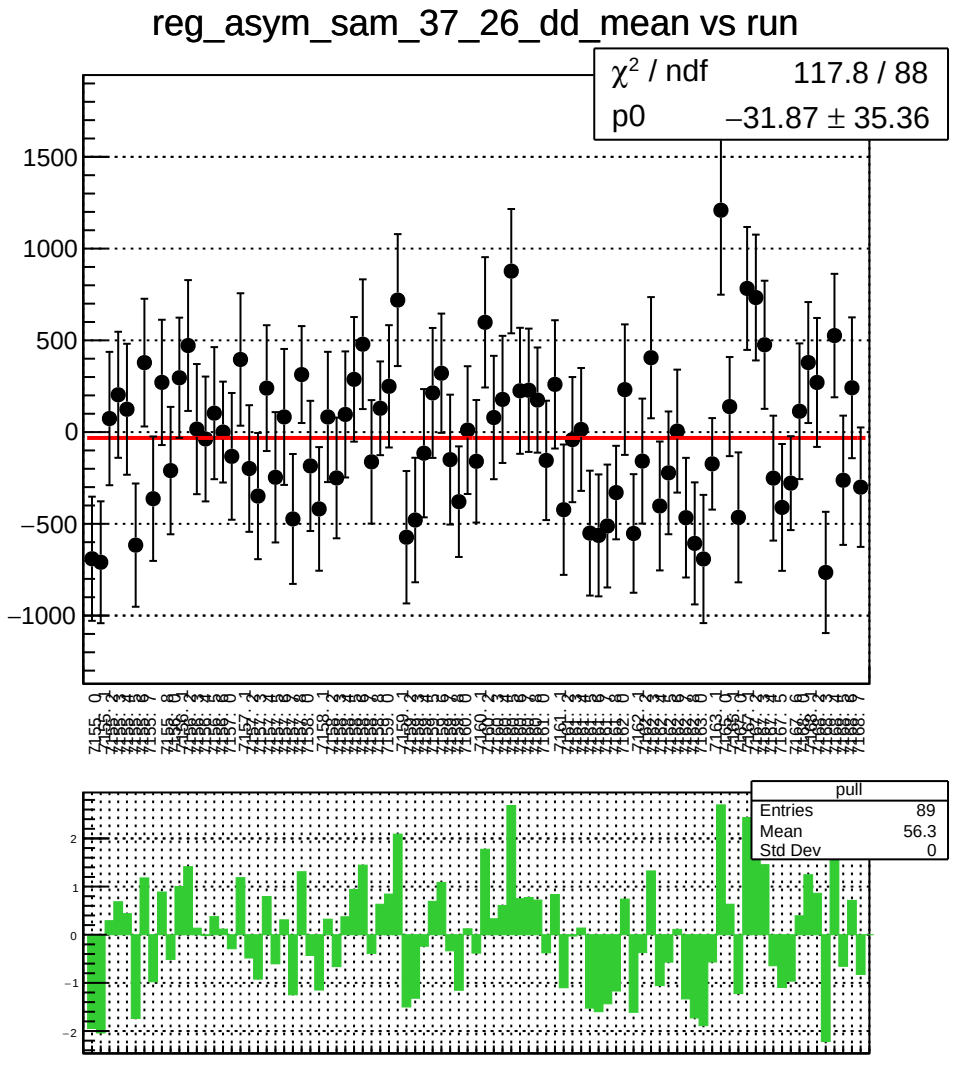

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.69 / 88
p0 0.04396 ± 0.02994
pull
Entries 89
Mean 213.1
Std Dev 119.6

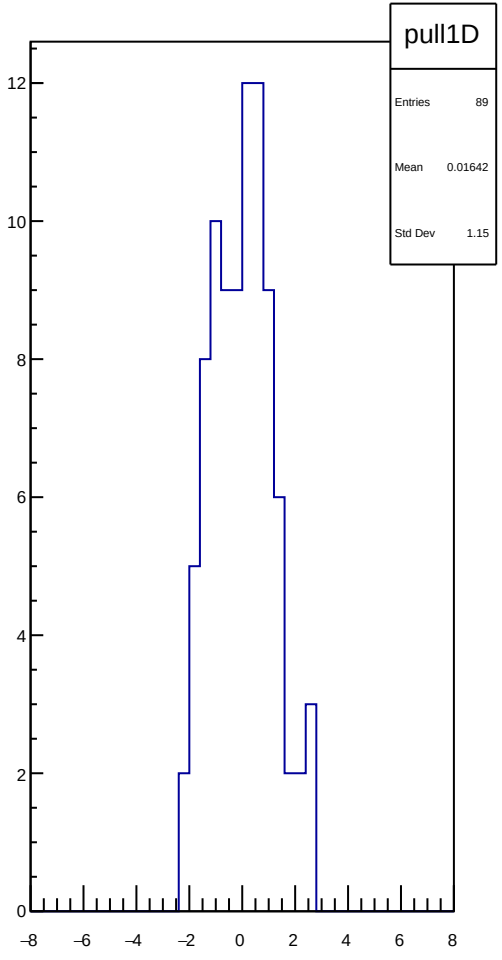

pull1D
Entries 89
Mean 0.003351
Std Dev 0.9697

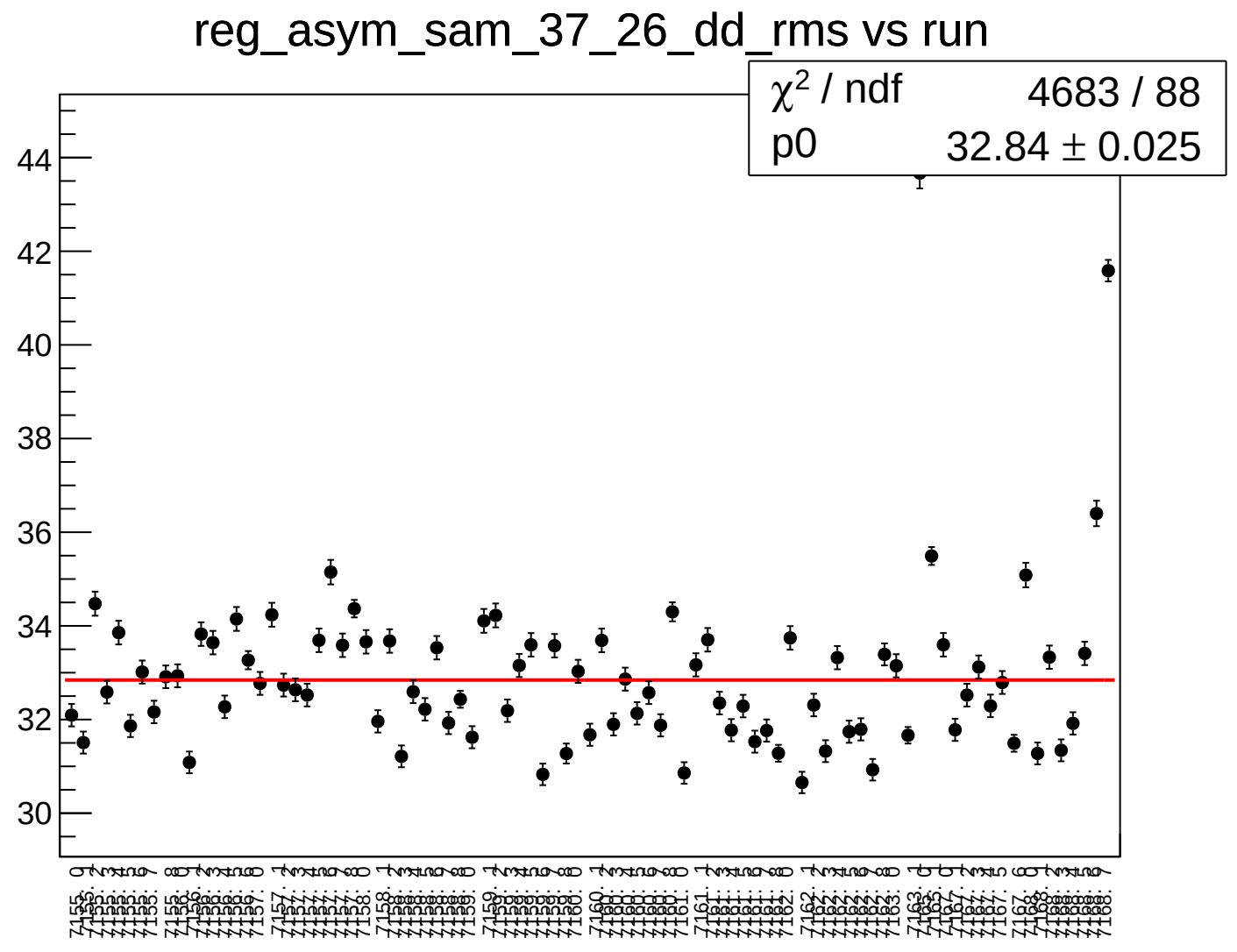

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.998e+04 / 88
p0 27.61 ± 0.02117
40
35
30
25
20

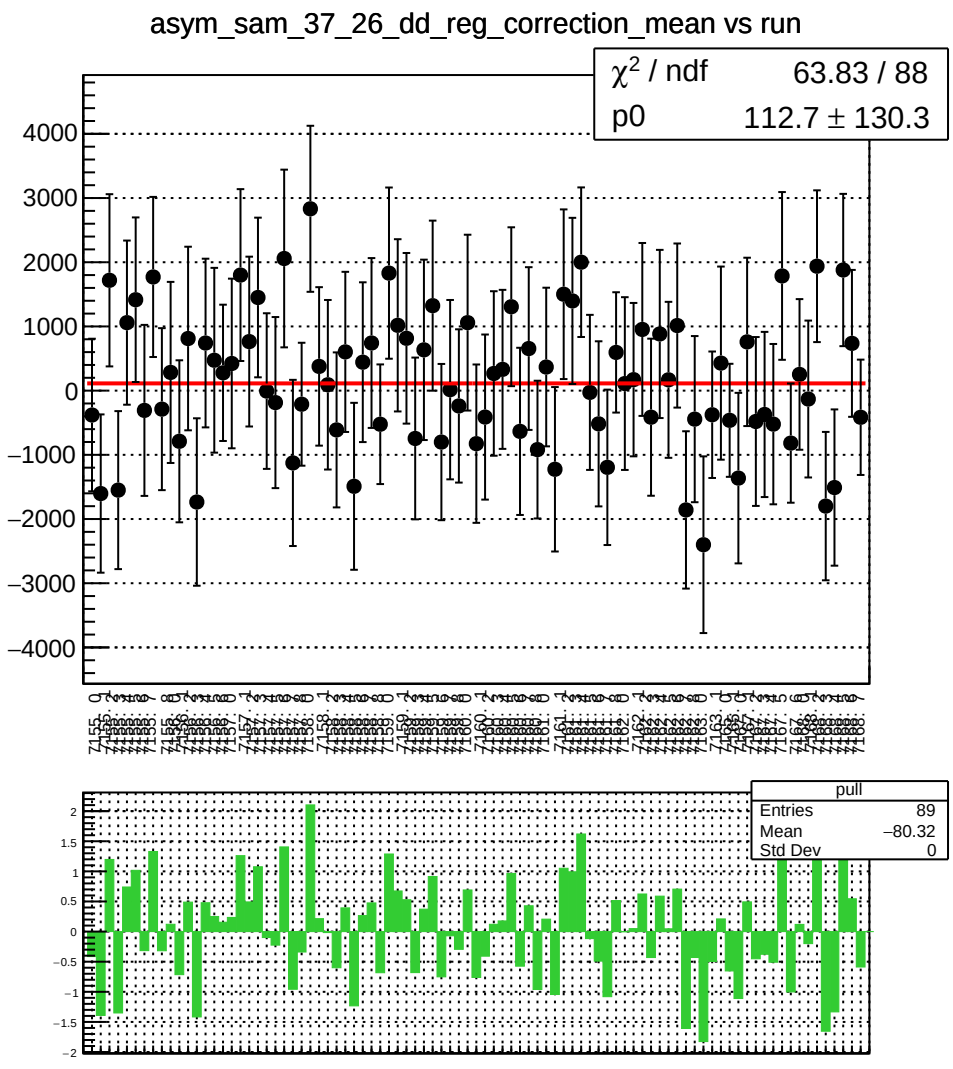

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.95 / 88
p0 −4.608e−15 ± 7.487e−15
pull
Entries 89
Mean −4.138
Std Dev 0
pull1D
Entries 89
Mean 0.05067
Std Dev 1.015

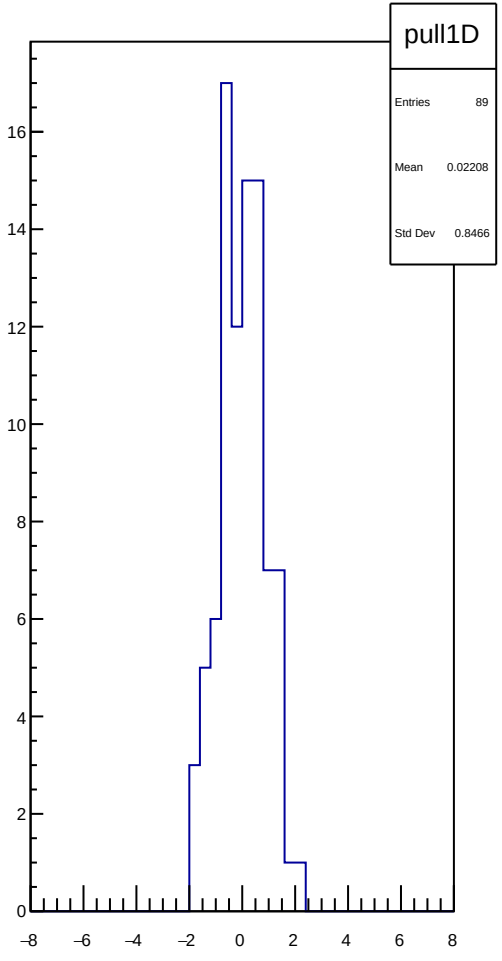

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.176e+05 / 88
p0 5.584e−12 ± 5.294e−15
30
25
20
15
10
5

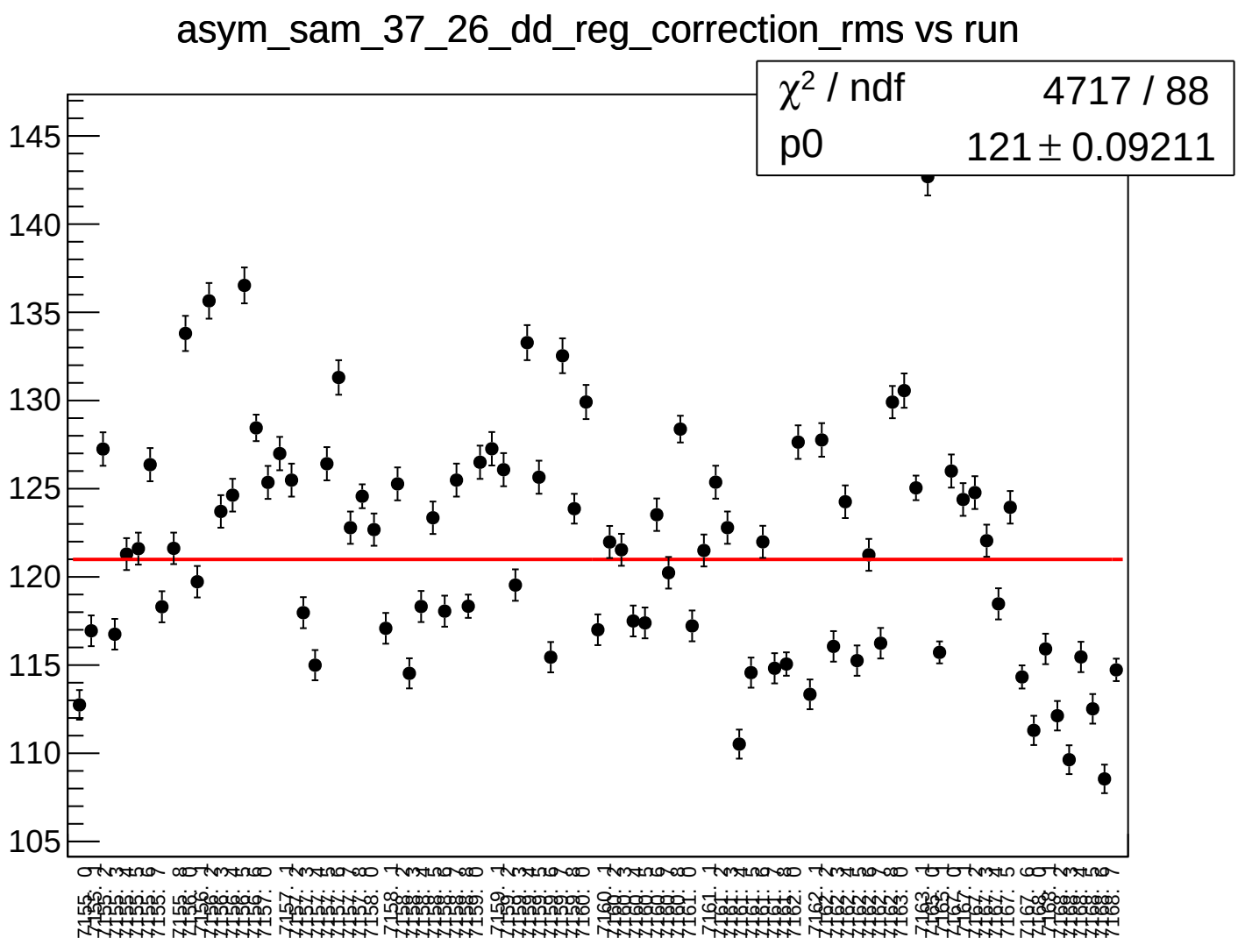

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 117.8 / 88
p0 −31.87 ± 35.36
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 56.3
Std Dev 0
2
1
0
−1
−2

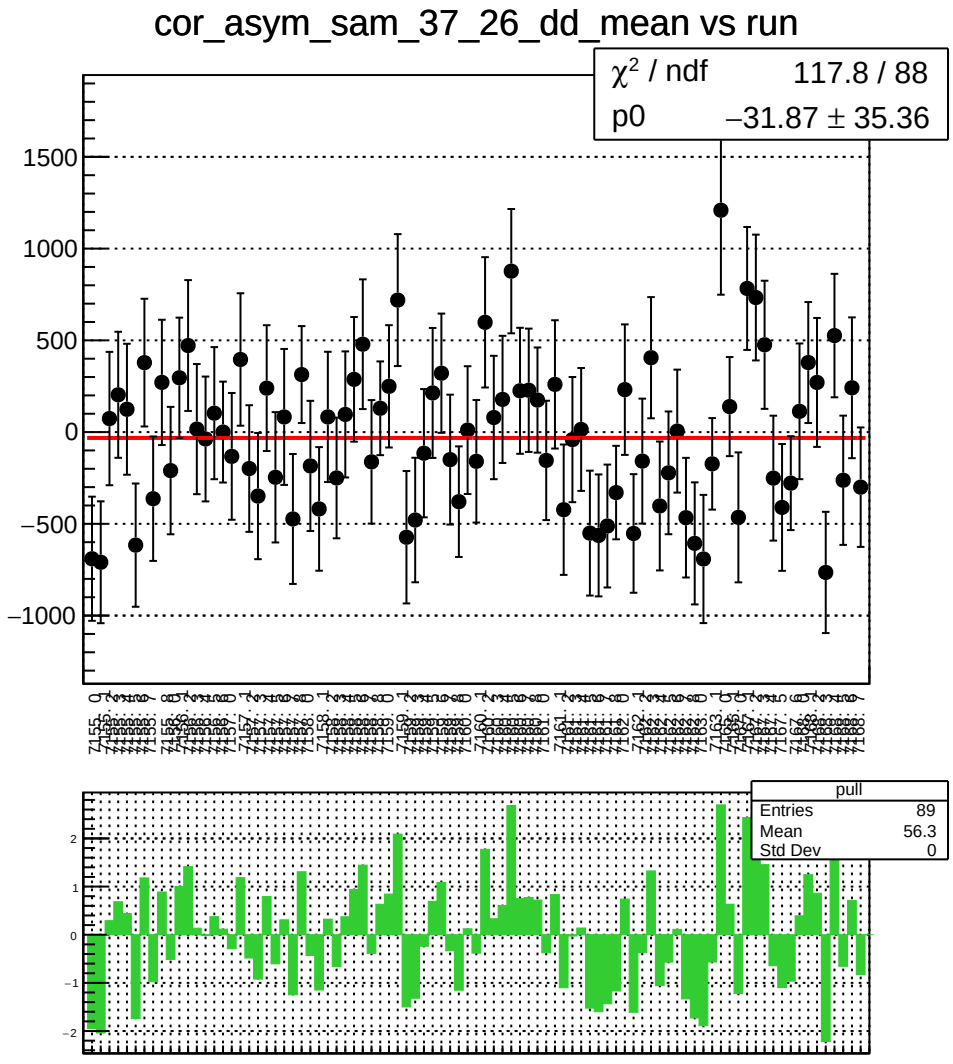

pull1D
Entries 89
Mean 0.01642
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

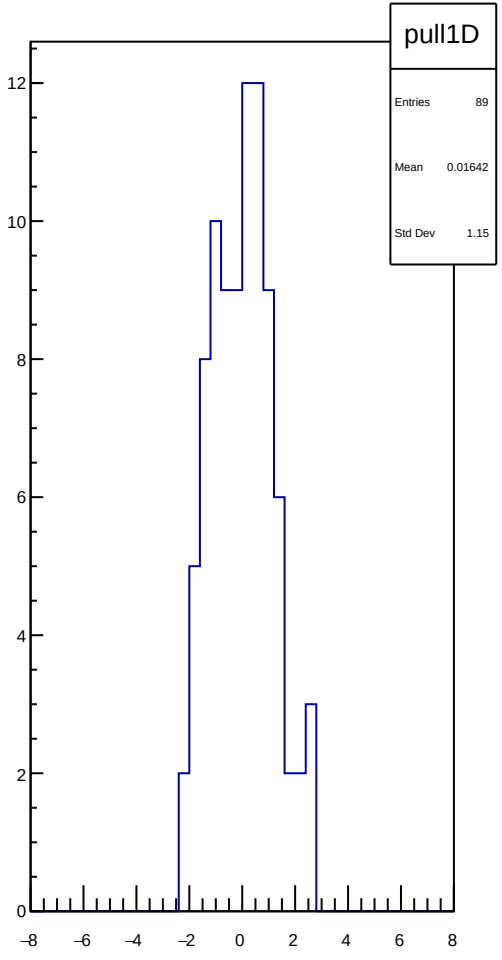

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 4683 / 88
p0 32.84 ± 0.025
44
42
40
38
36
34
32
30

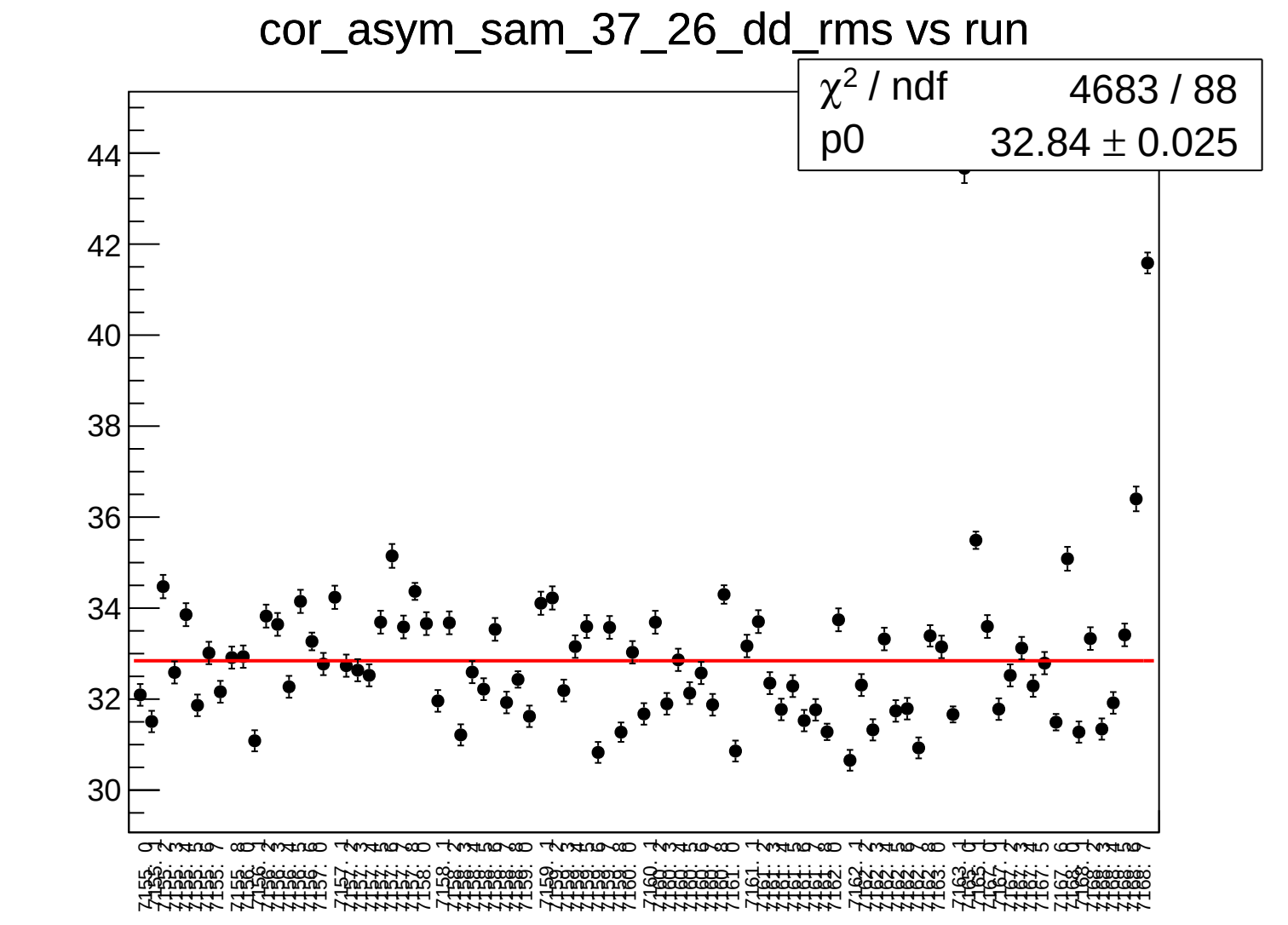

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 63.83 / 88
p0 112.7 ± 130.3
pull
Entries 89
Mean −80.32
Std Dev 0

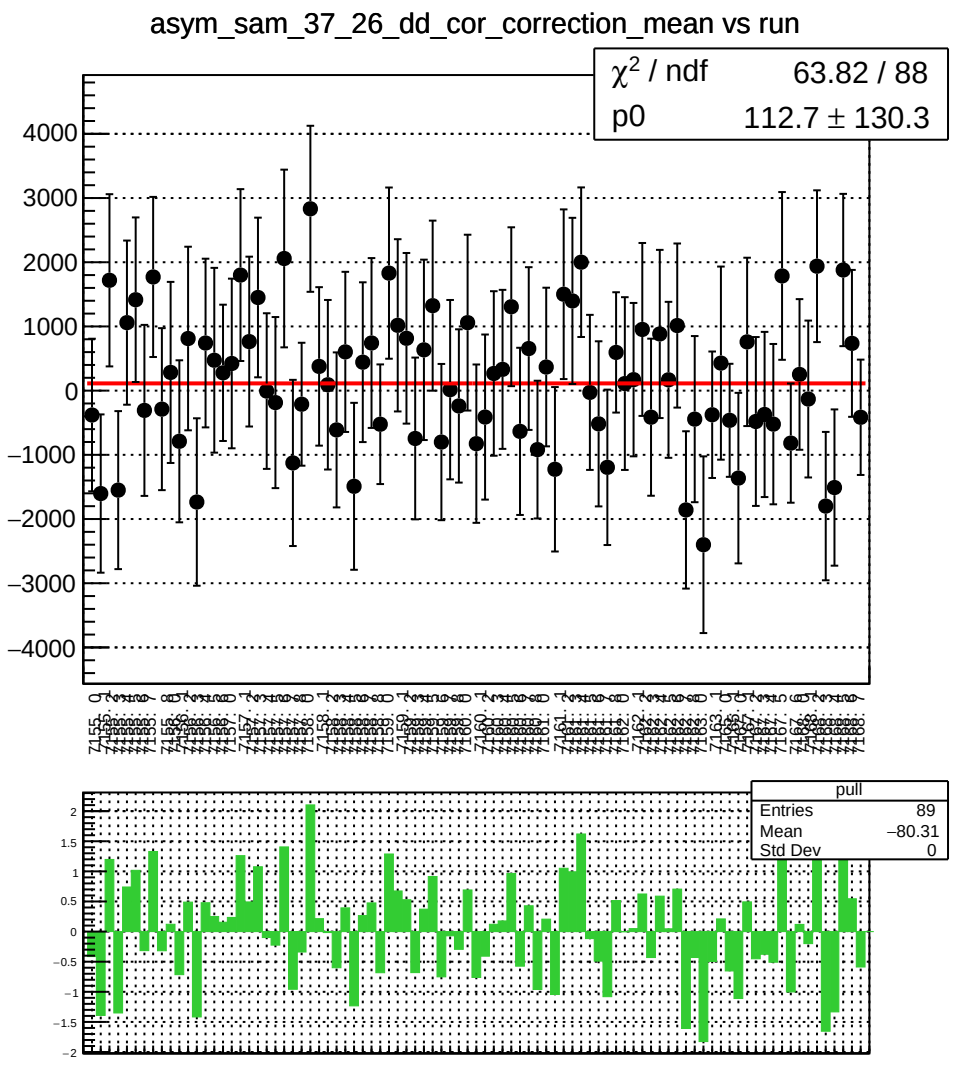

pull1D
Entries 89
Mean 0.02208
Std Dev 0.8466

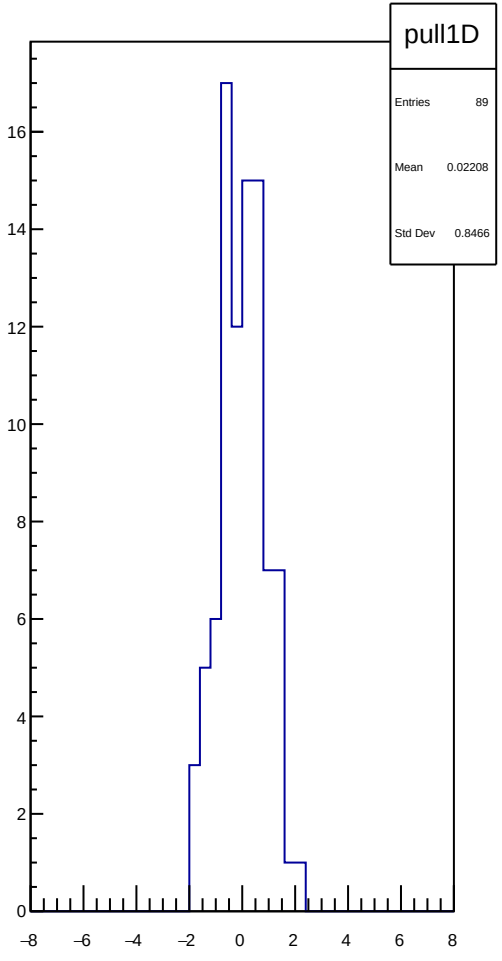

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 4717 / 88
p0 121 ± 0.09211
145
140
135
130
125
120
115
110
105

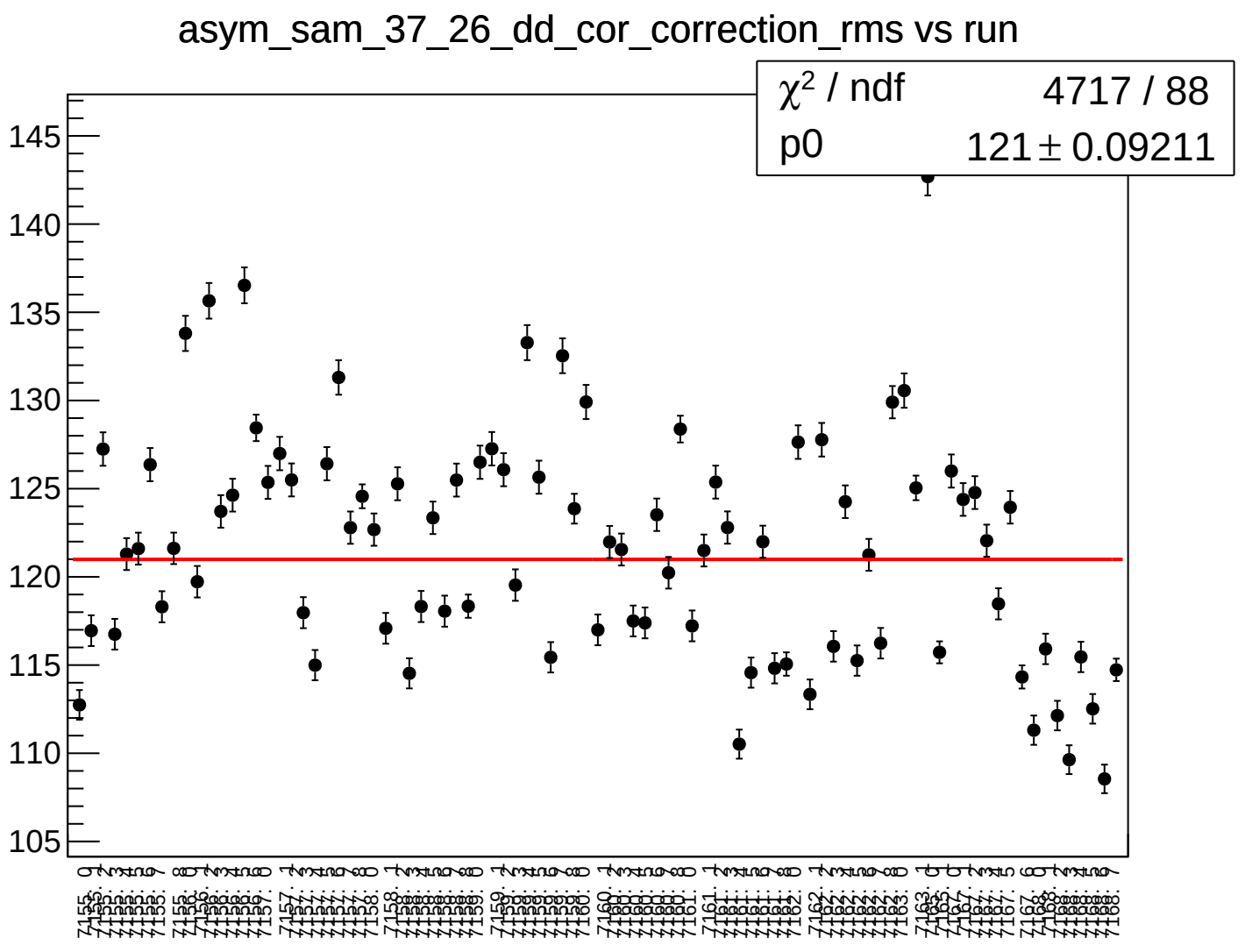

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 117.8 / 88
p0 −31.87 ± 35.36
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 56.3
Std Dev 0
2
1
0
−1
−2

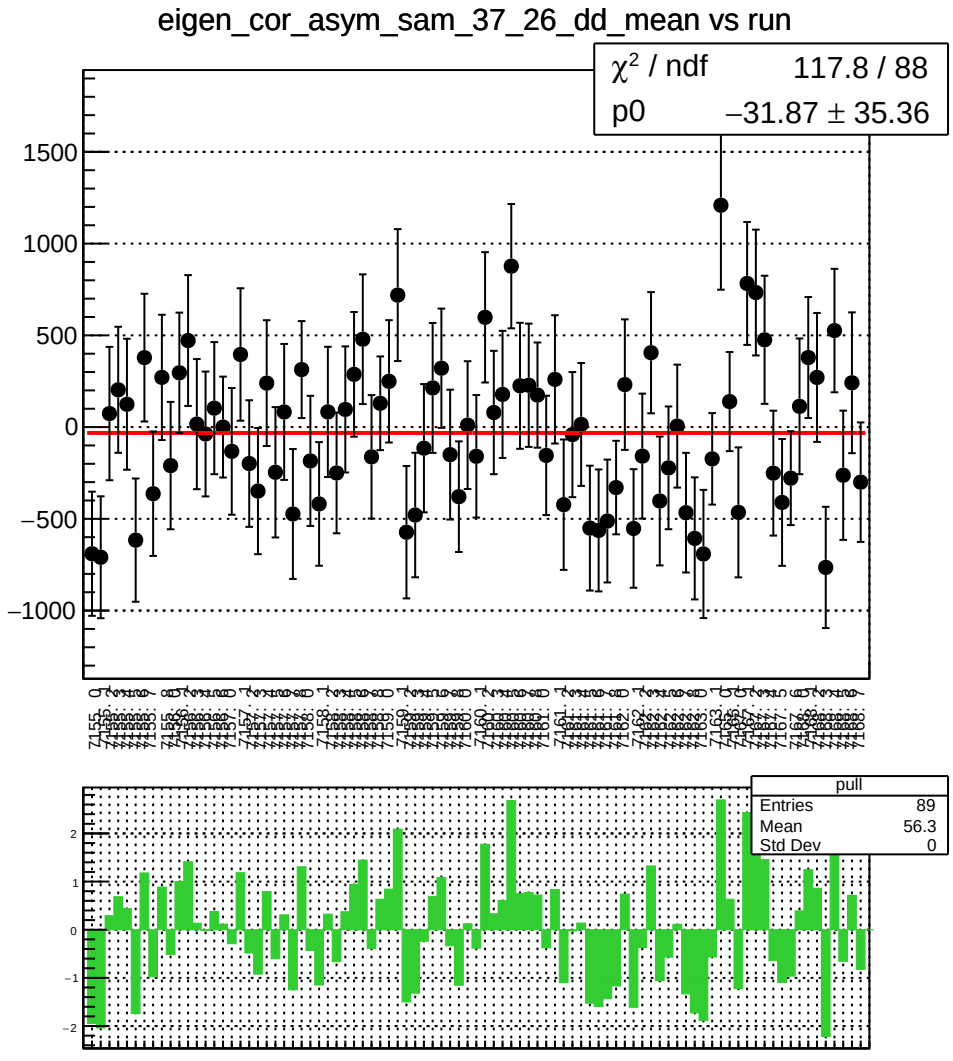

pull1D
Entries 89
Mean 0.01642
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

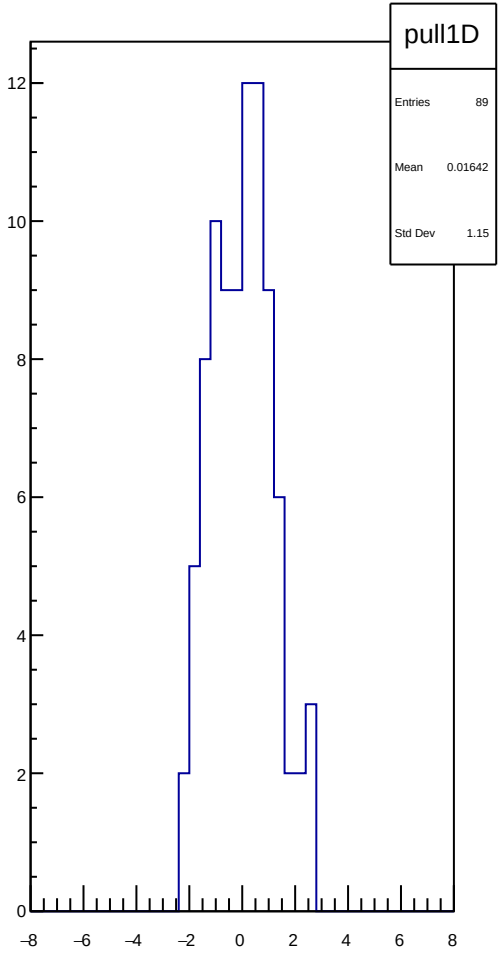

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4683 / 88
p0 32.84 ± 0.025
44
42
40
38
36
34
32
30

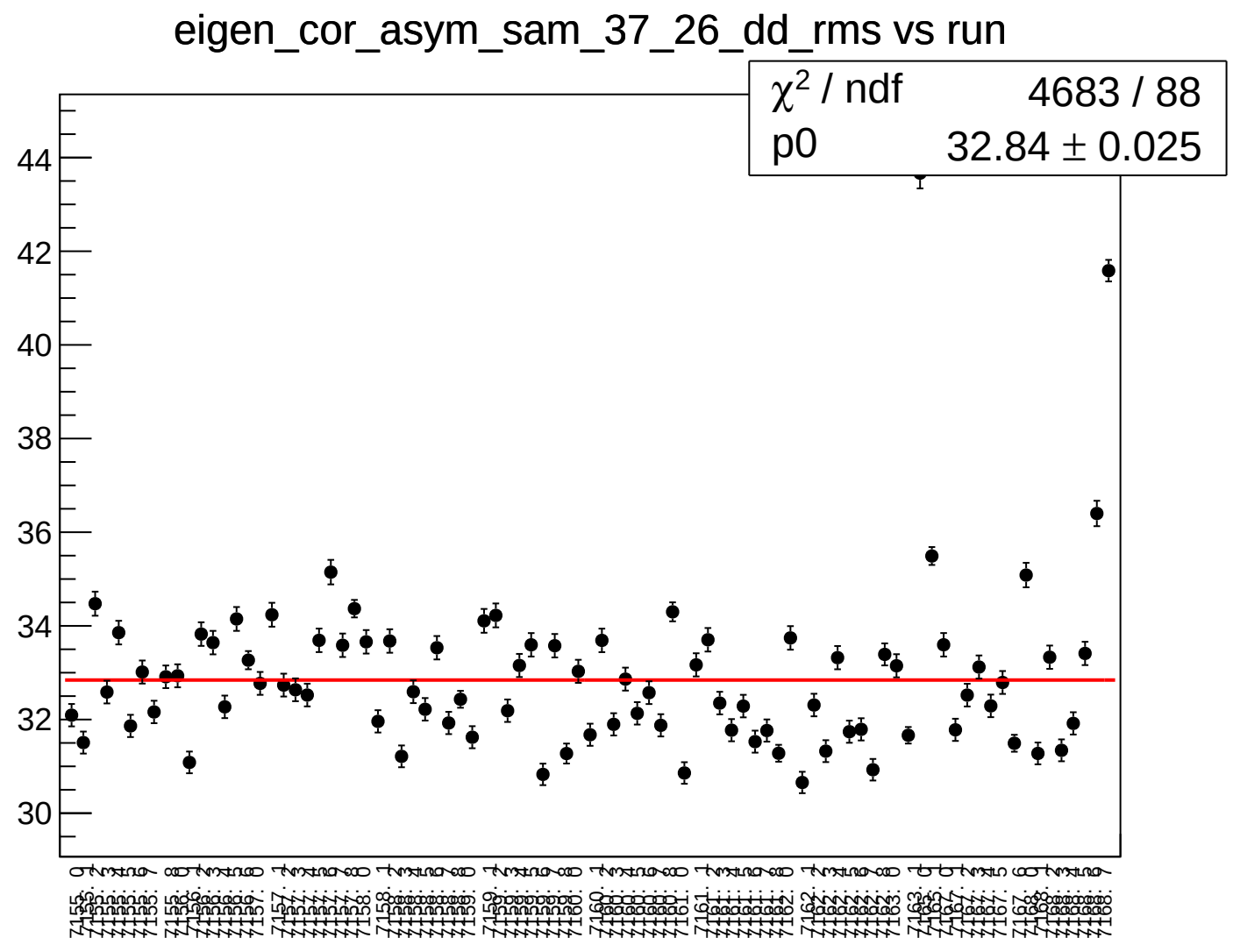

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 63.82 / 88
p0 112.7 ± 130.3
pull
Entries 89
Mean −80.31
Std Dev 0

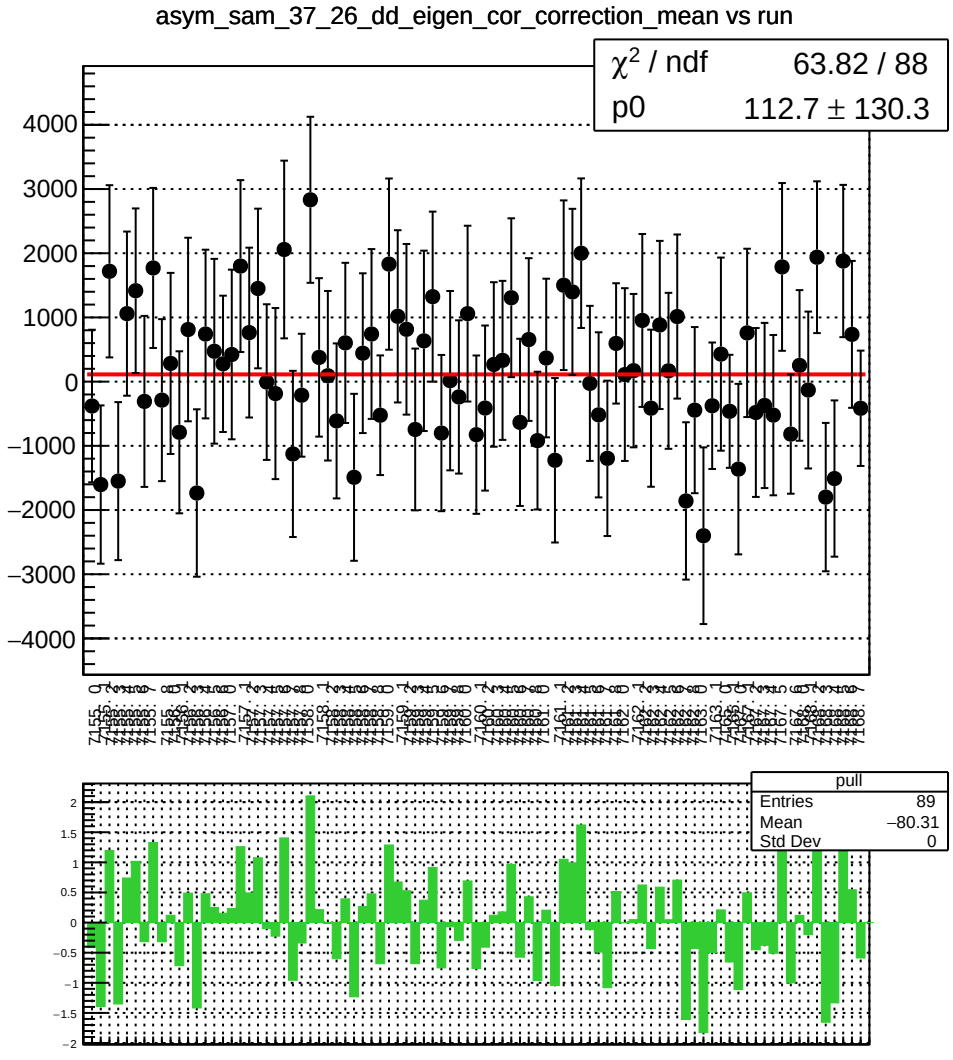

pull1D
Entries 89
Mean 0.02208
Std Dev 0.8466

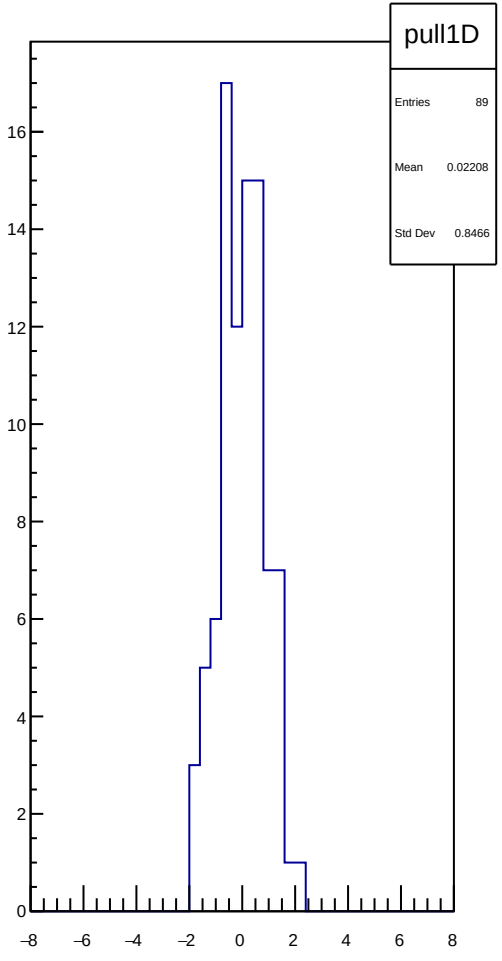

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 4717 / 88
p0 121 ± 0.09211
145
140
135
130
125
120
115
110
105

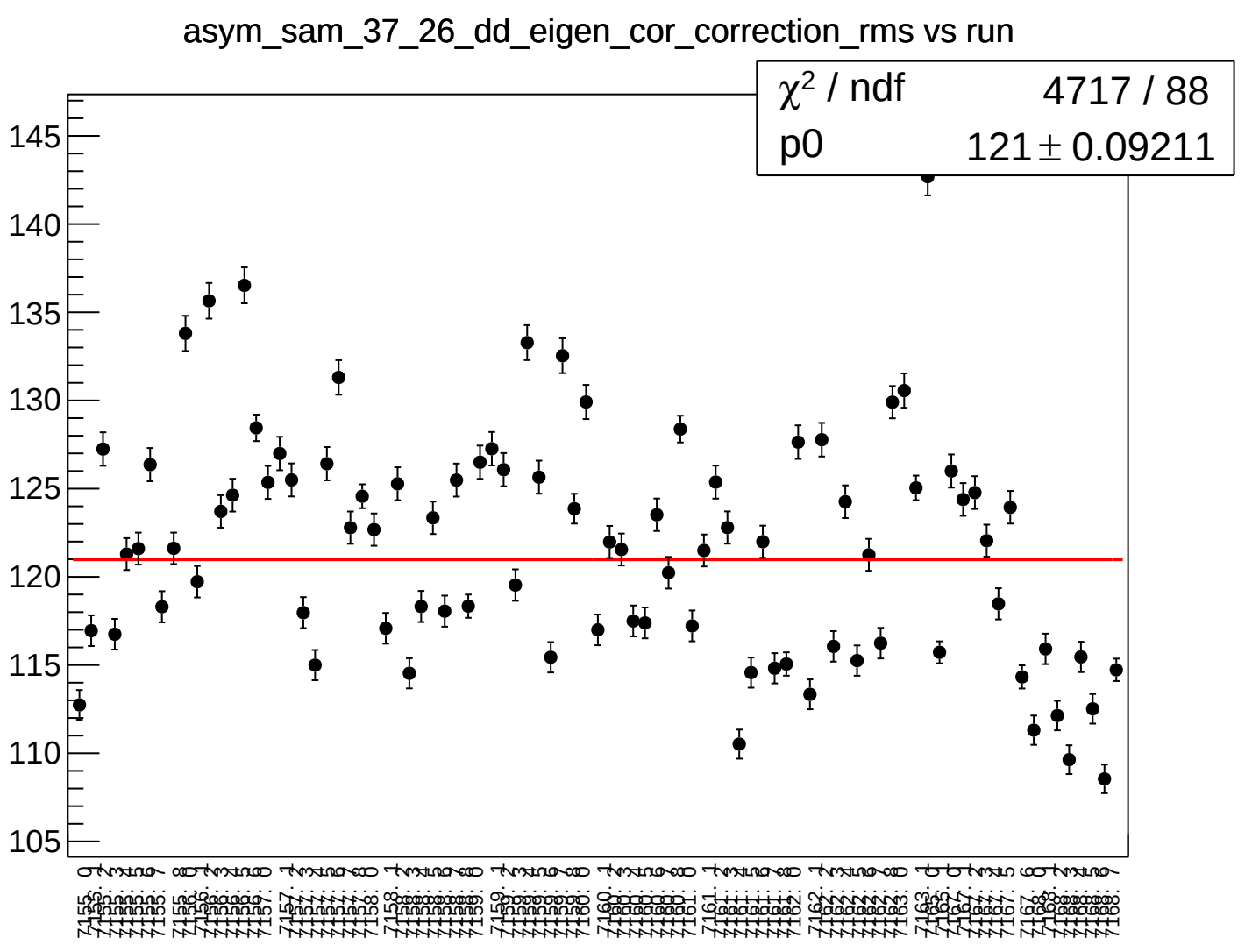

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 117.8 / 88
p0 −31.87 ± 35.36
1500
1000
500
0
−500
−1000
pull
Entries 89
Mean 56.3
Std Dev 0
2
1
0
−1
−2

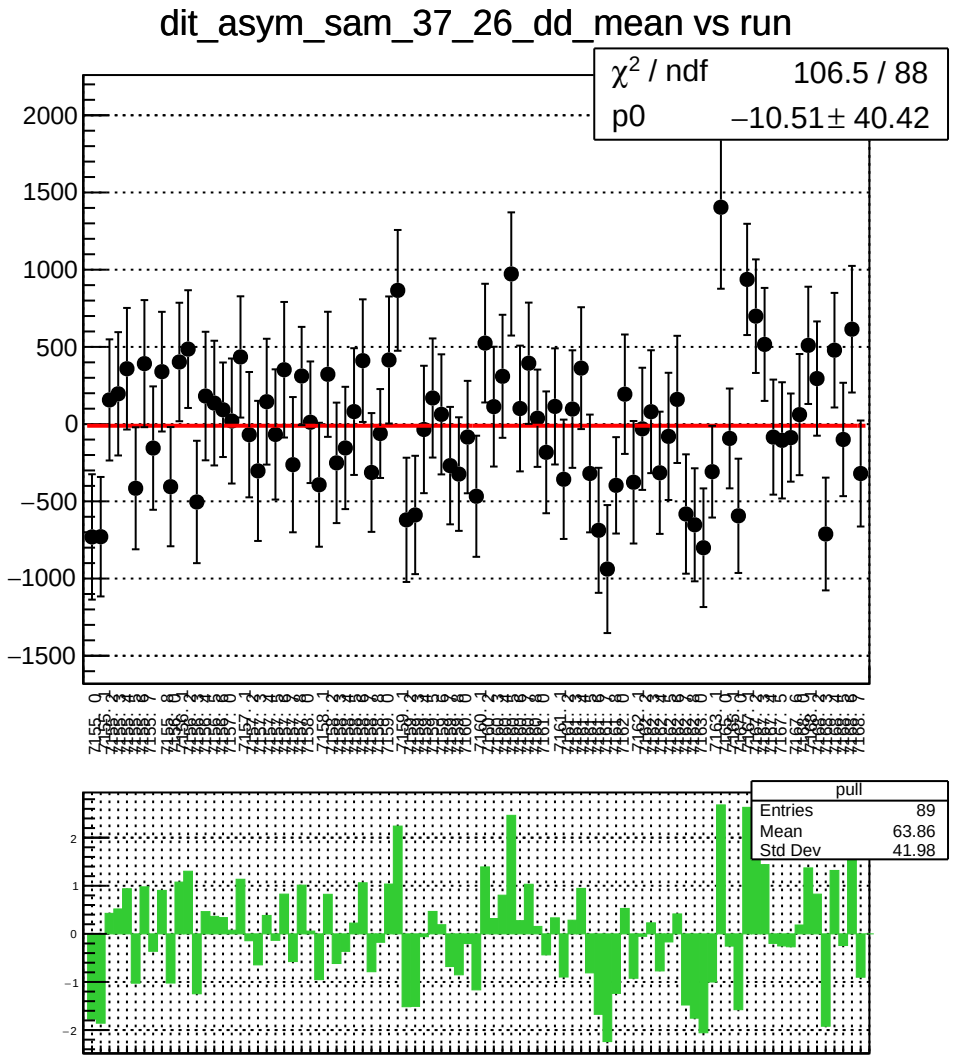

pull1D
Entries 89
Mean 0.01642
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

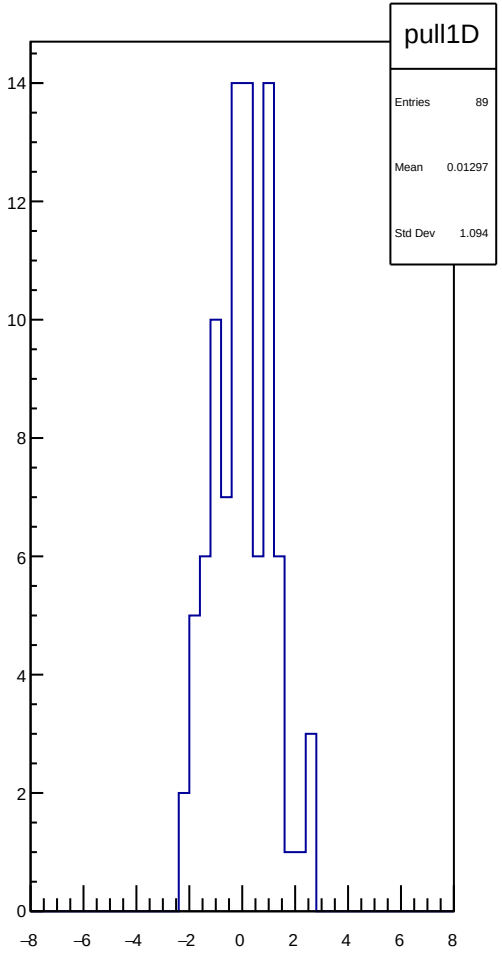

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 4683 / 88
p0 32.84 ± 0.025
44
42
40
38
36
34
32
30

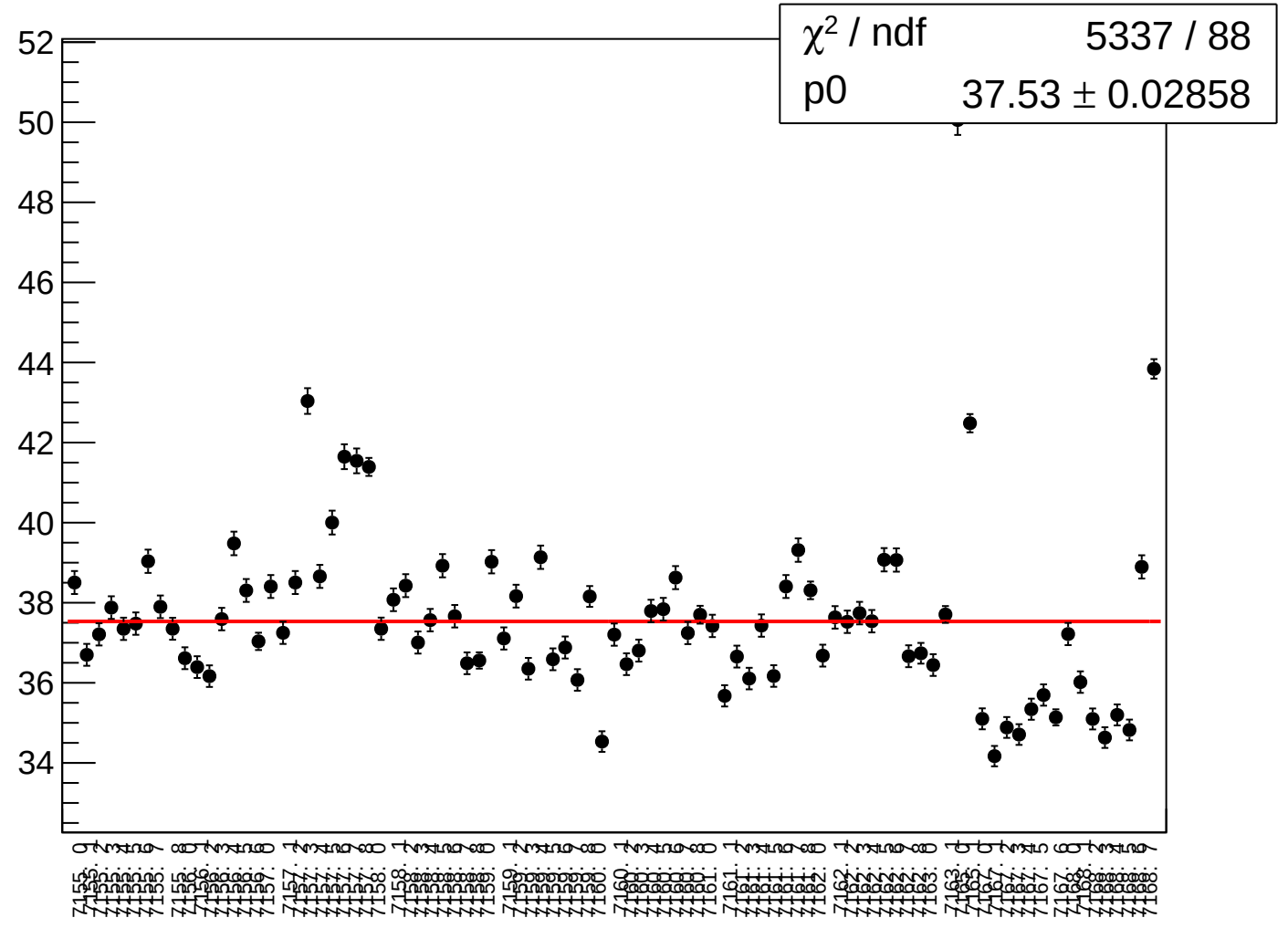

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 63.82 / 88
p0 112.7 ± 130.3
pull
Entries 89
Mean −80.31
Std Dev 0

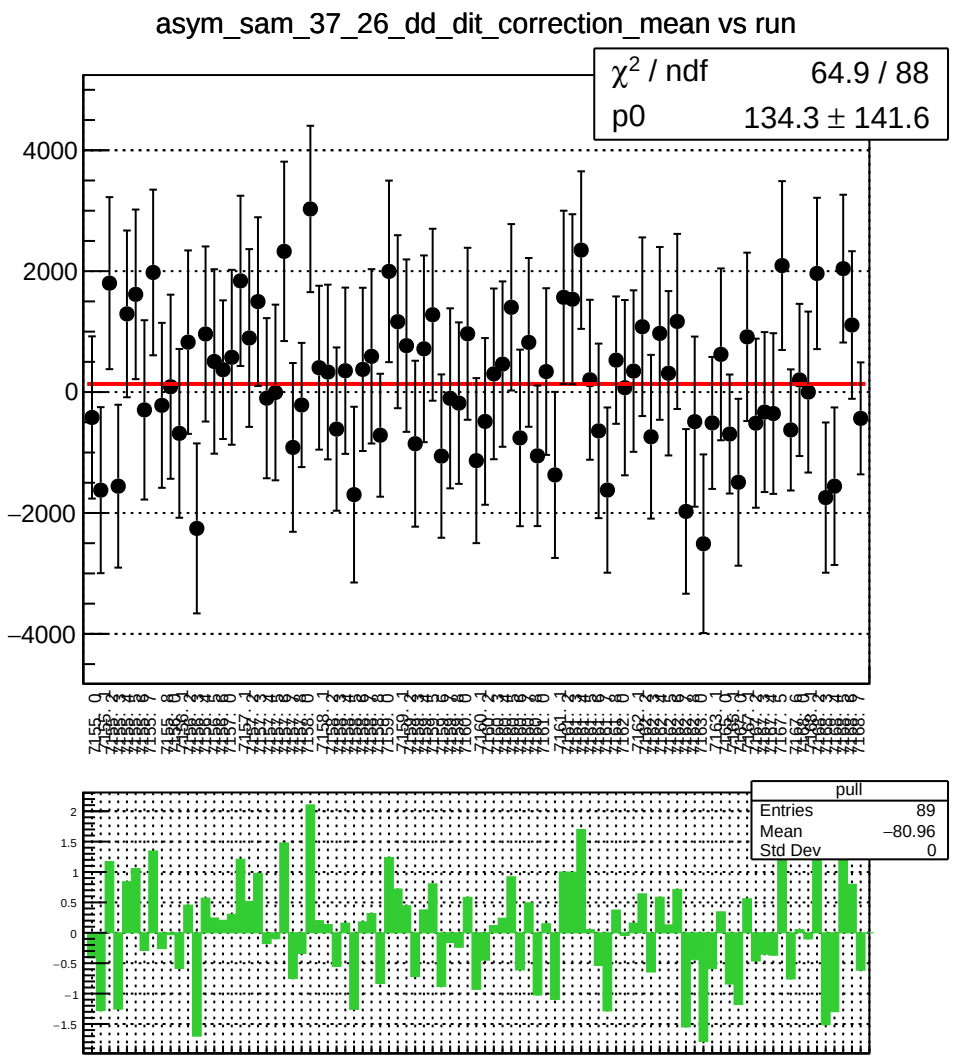

pull1D
Entries 89
Mean 0.02208
Std Dev 0.8466

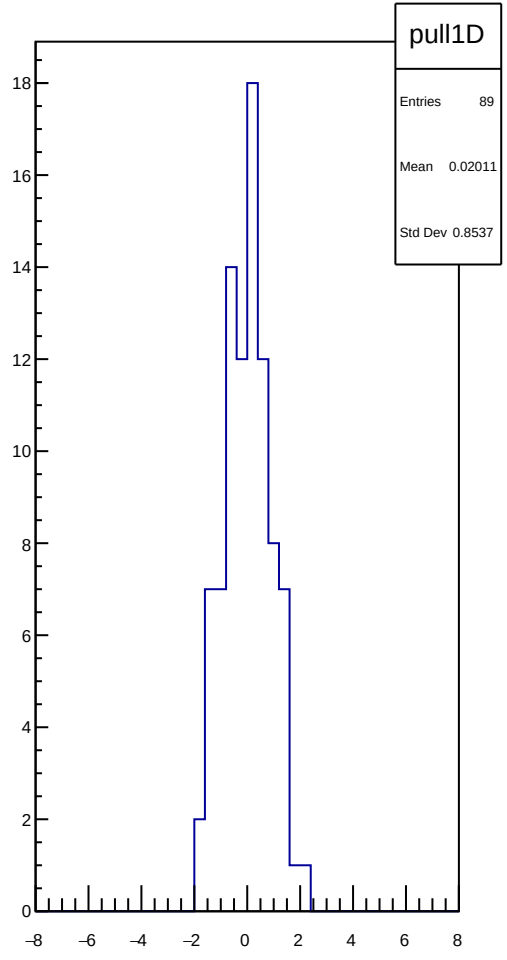

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4717 / 88
p0 121 ± 0.09211
145
140
135
130
125
120
115
110
105

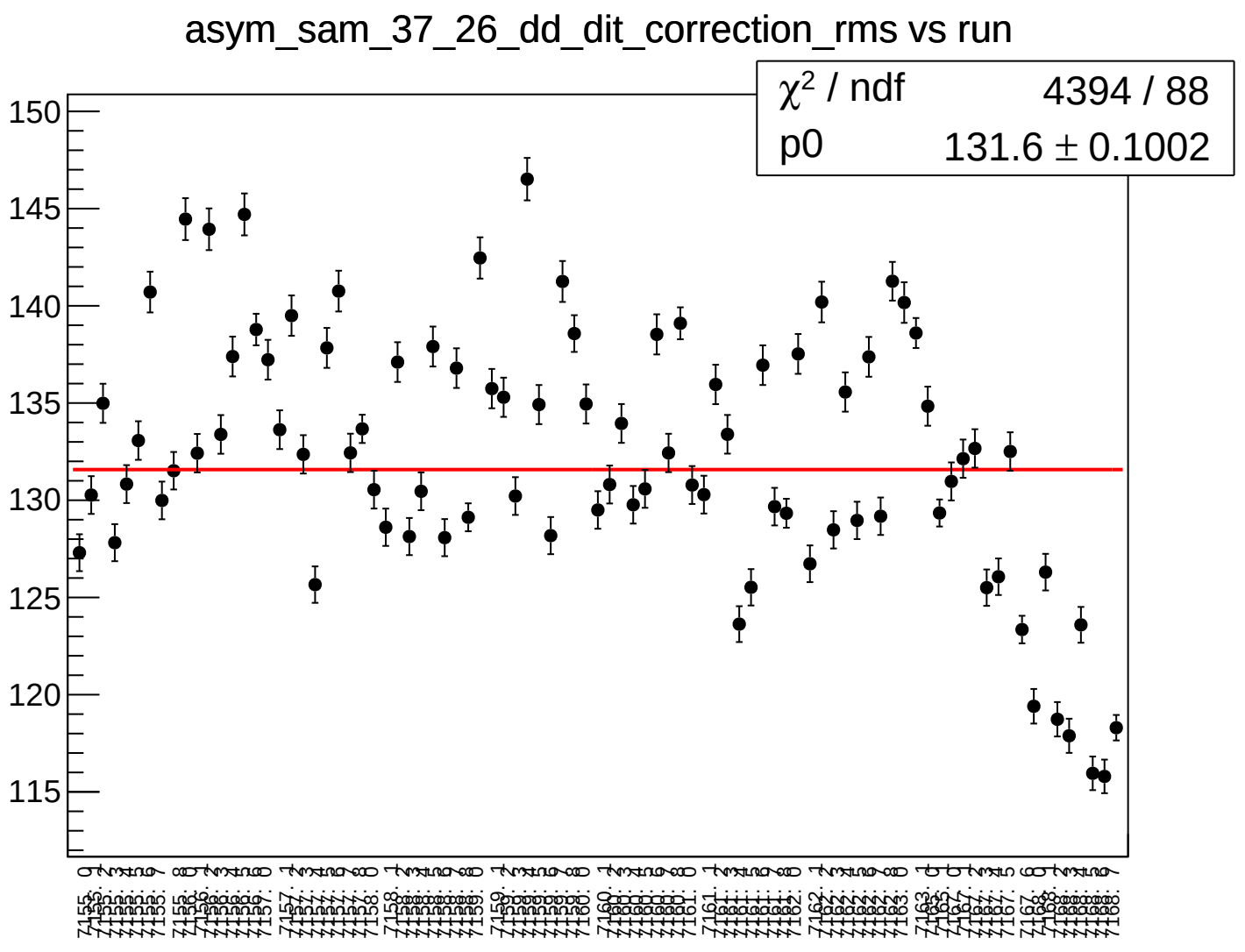

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 106.5 / 88
p0 −10.51 ± 40.42
pull
Entries 89
Mean 63.86
Std Dev 41.98

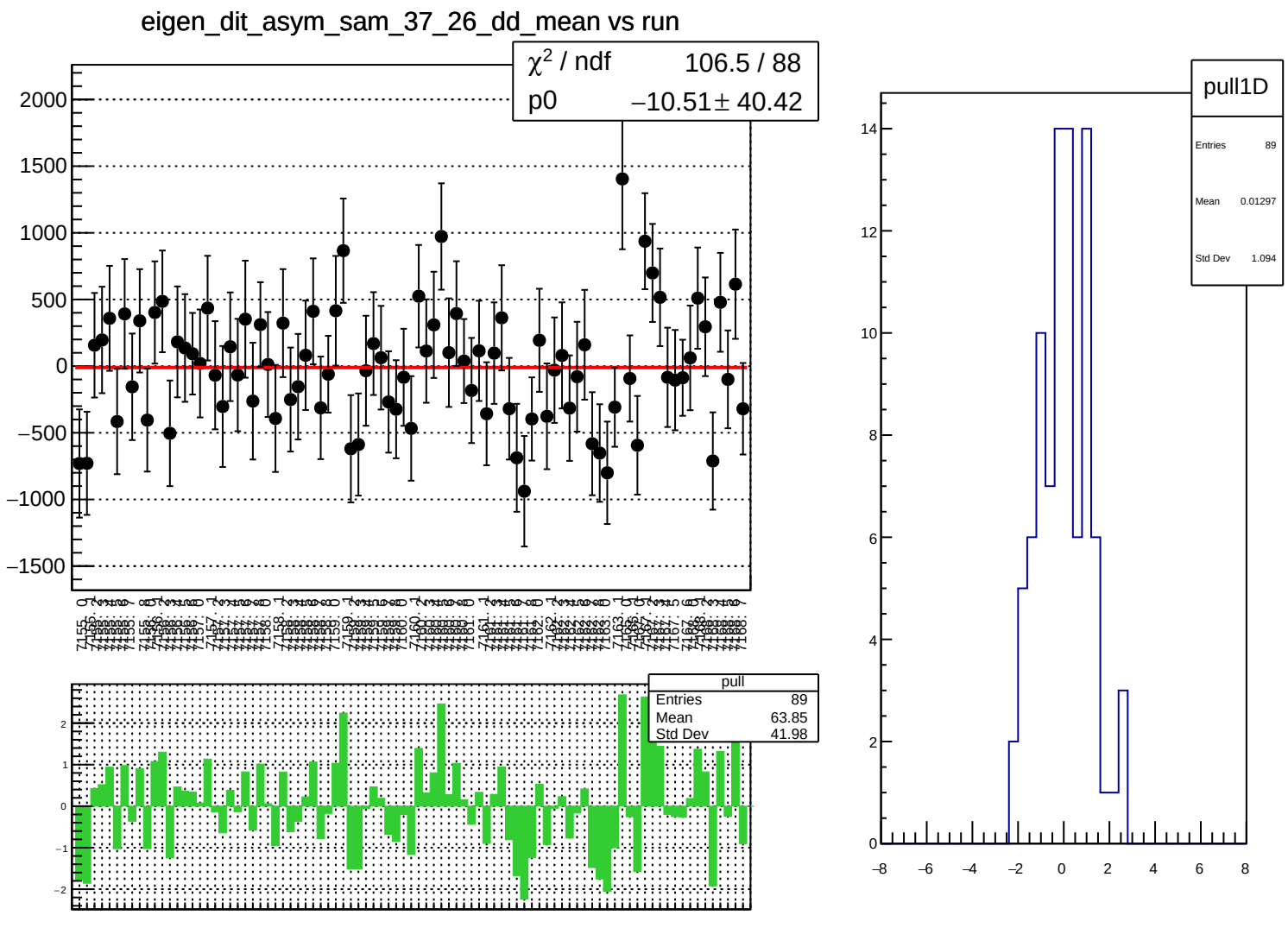

pull1D
Entries 89
Mean 0.01297
Std Dev 1.094

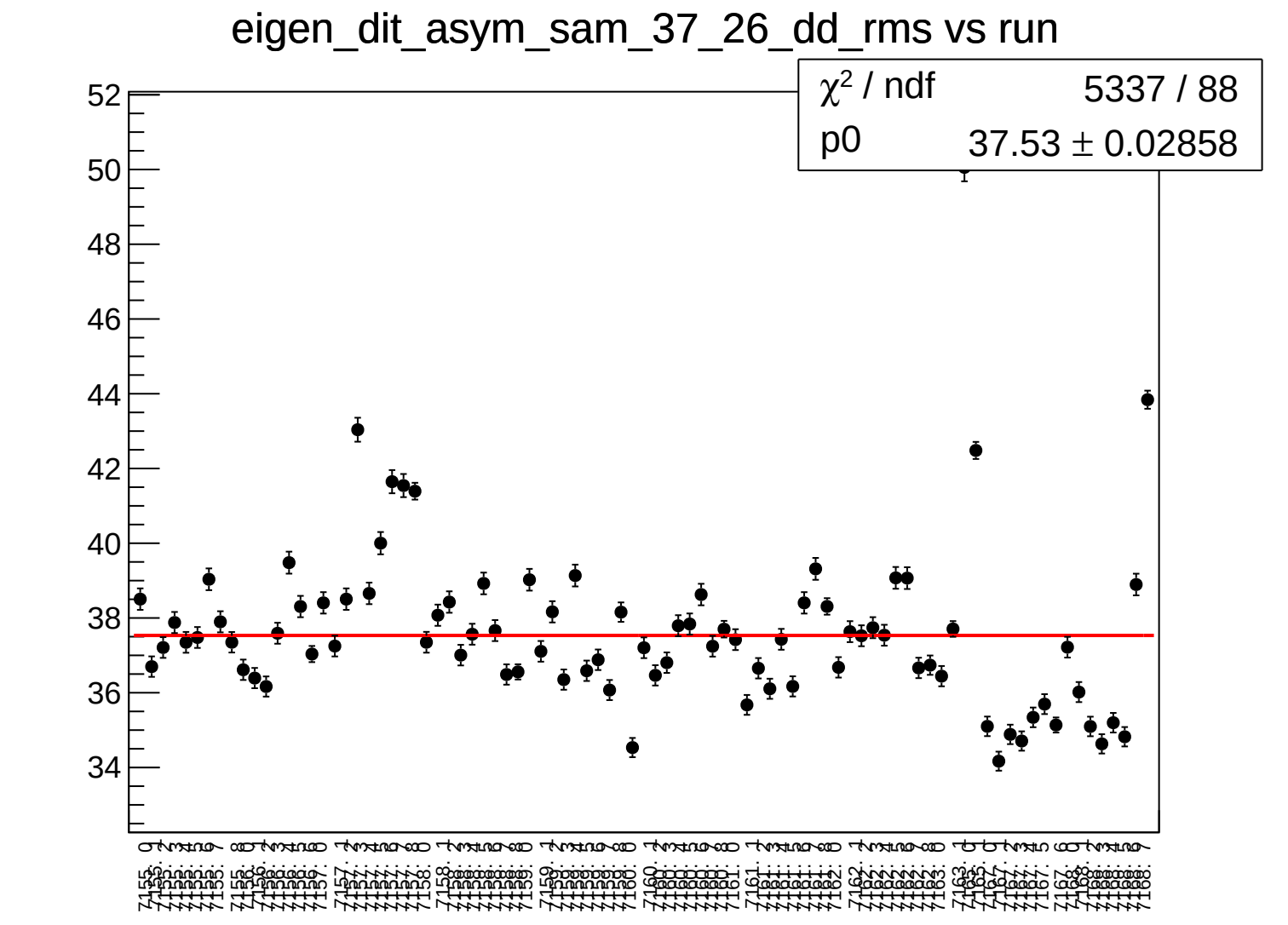

dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 5337 / 88
p0 37.53 ± 0.02858
52
50
48
46
44
42
40
38
36
34

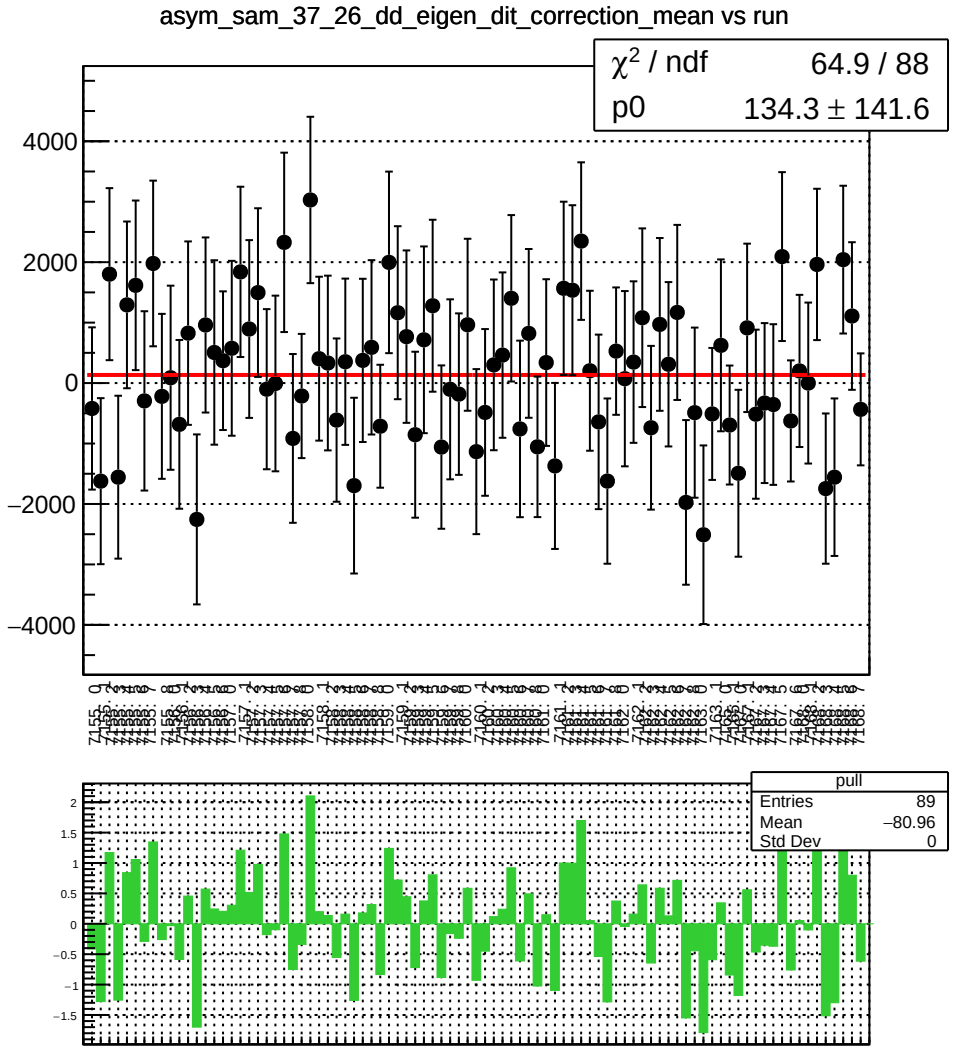

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 64.9 / 88
p0 134.3 ± 141.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −80.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

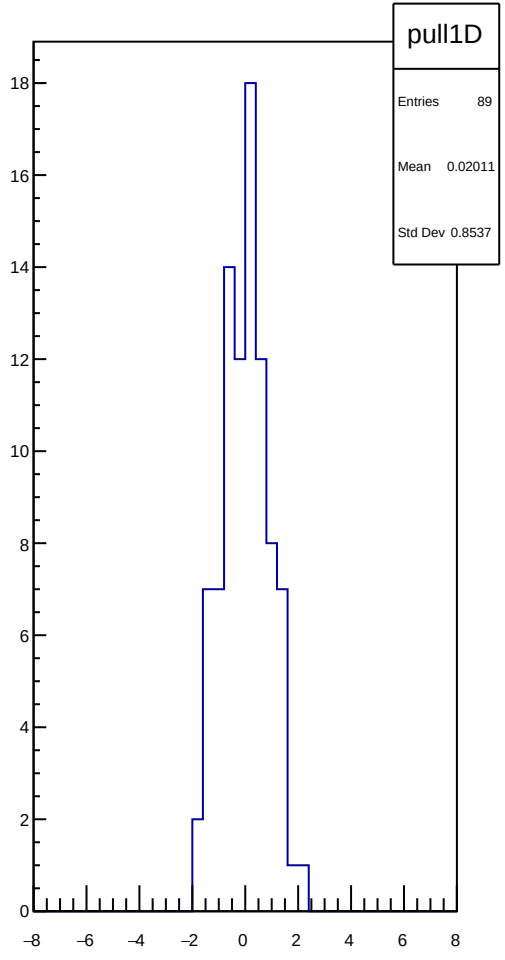

pull1D
Entries 89
Mean 0.02011
Std Dev 0.8537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

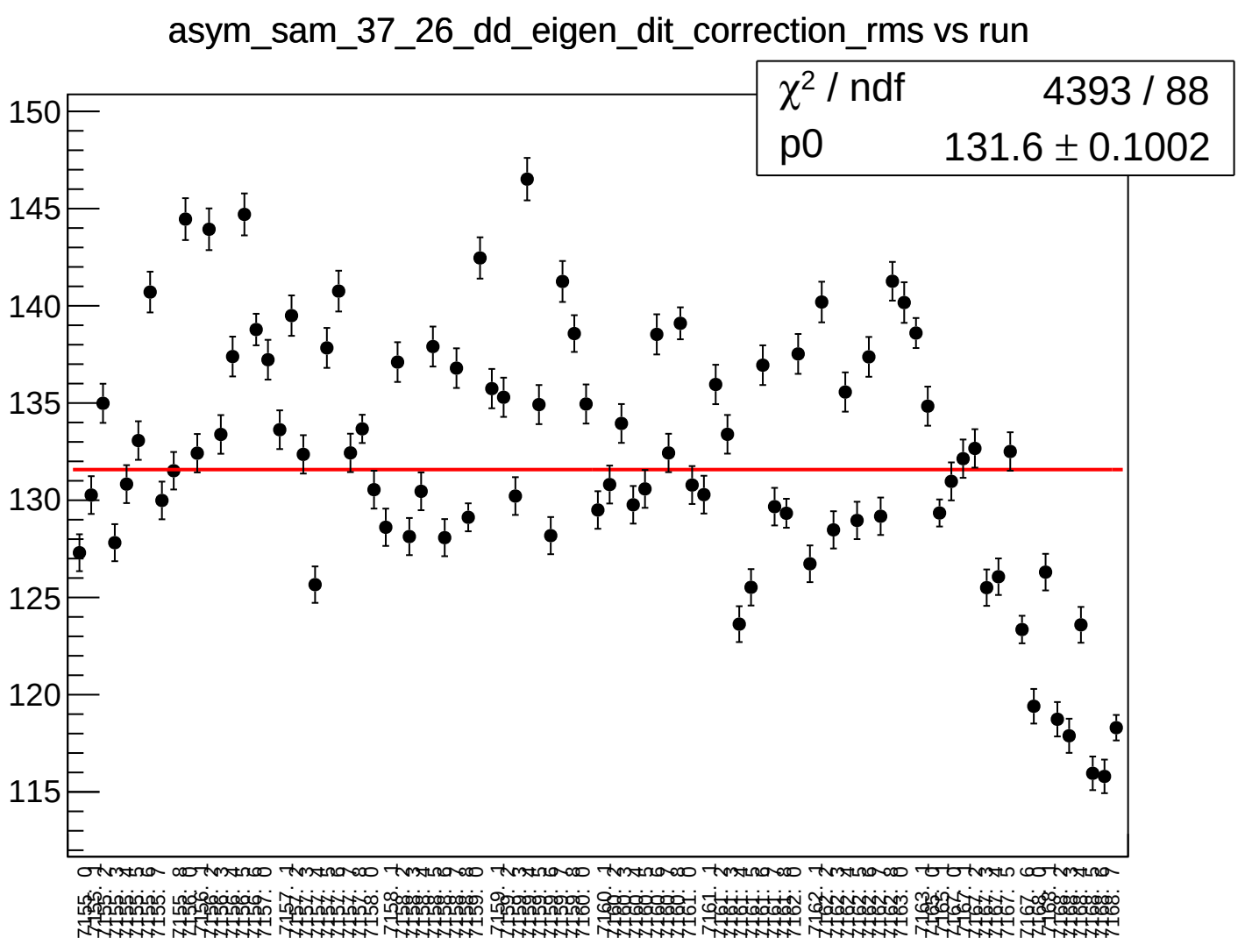

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 4394 / 88
p0 131.6 ± 0.1002
150
145
140
135
130
125
120
115

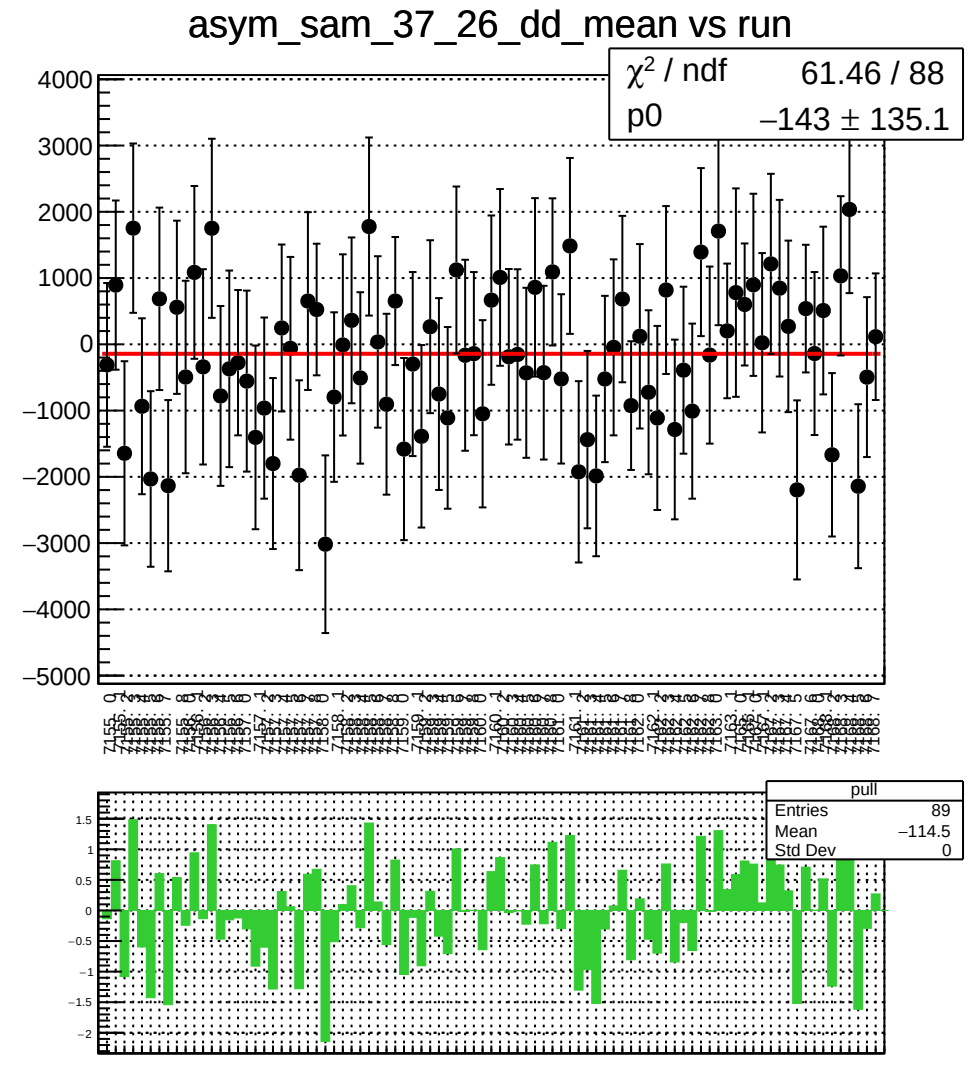

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 106.5 / 88
p0 −10.51 ± 40.42
pull
Entries 89
Mean 63.85
Std Dev 41.98
pull1D
Entries 89
Mean 0.01297
Std Dev 1.094

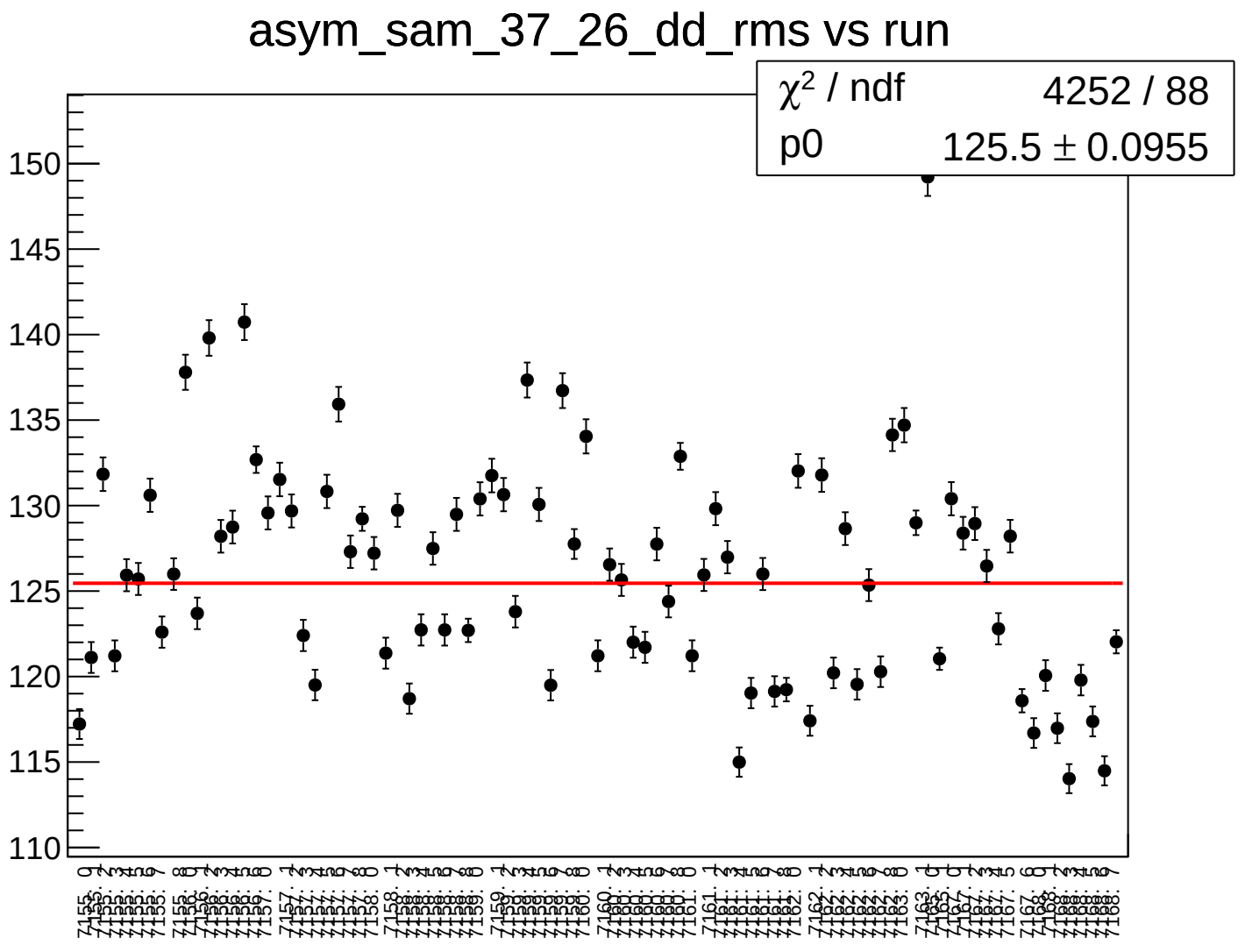

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 5337 / 88
p0 37.53 ± 0.02858
52
50
48
46
44
42
40
38
36
34

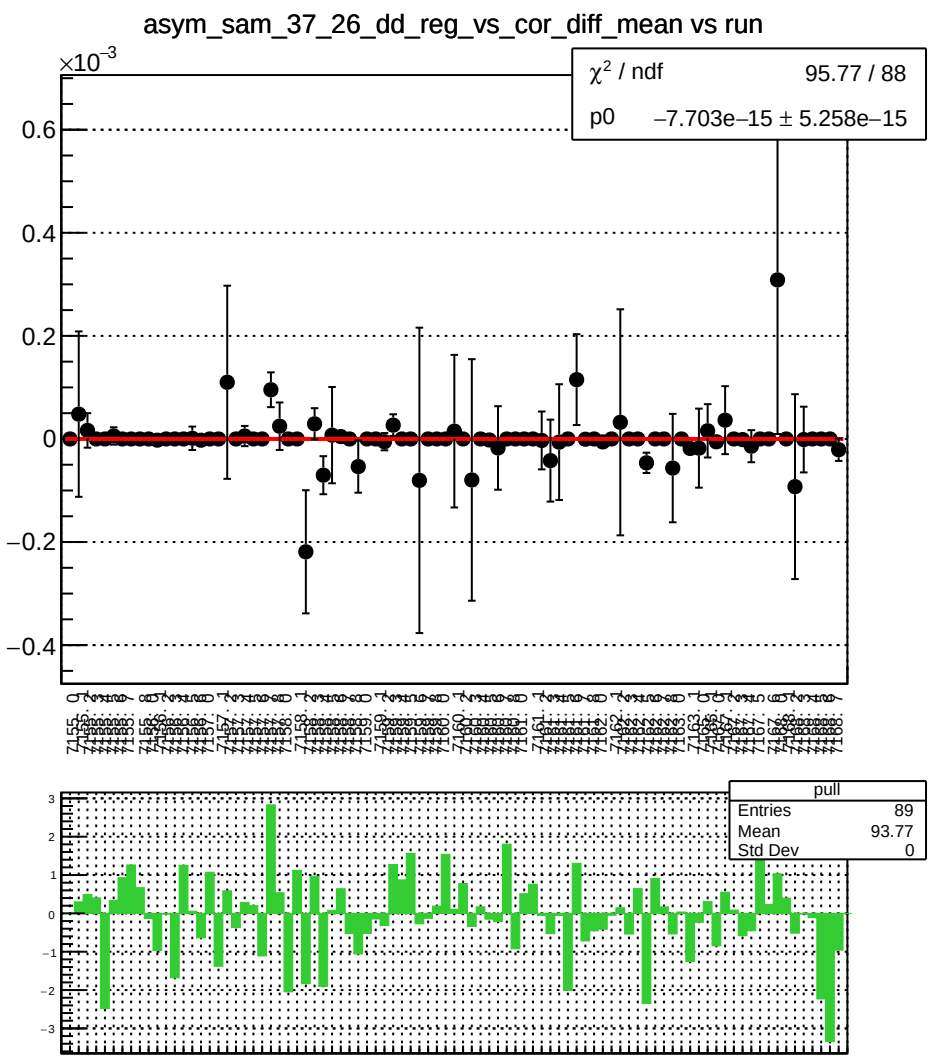

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 64.9 / 88
p0 134.3 ± 141.6
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −80.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

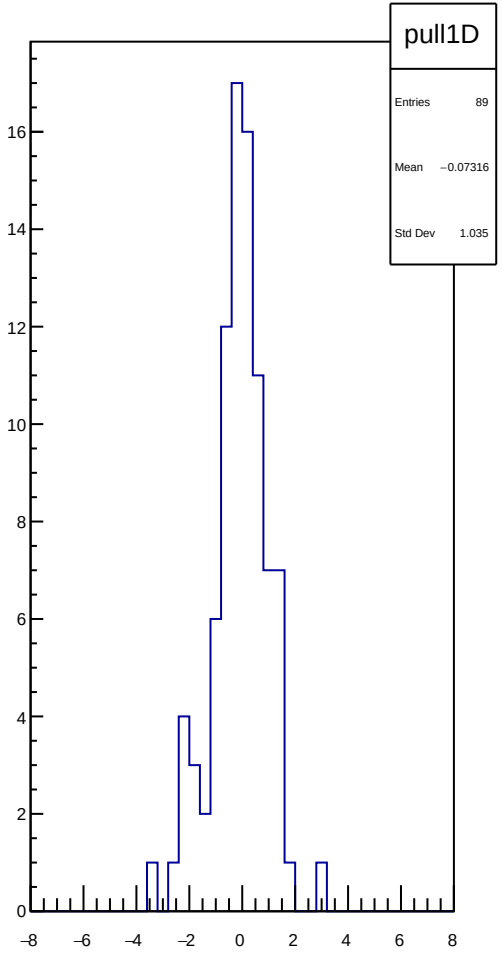

pull1D
Entries 89
Mean 0.02011
Std Dev 0.8537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

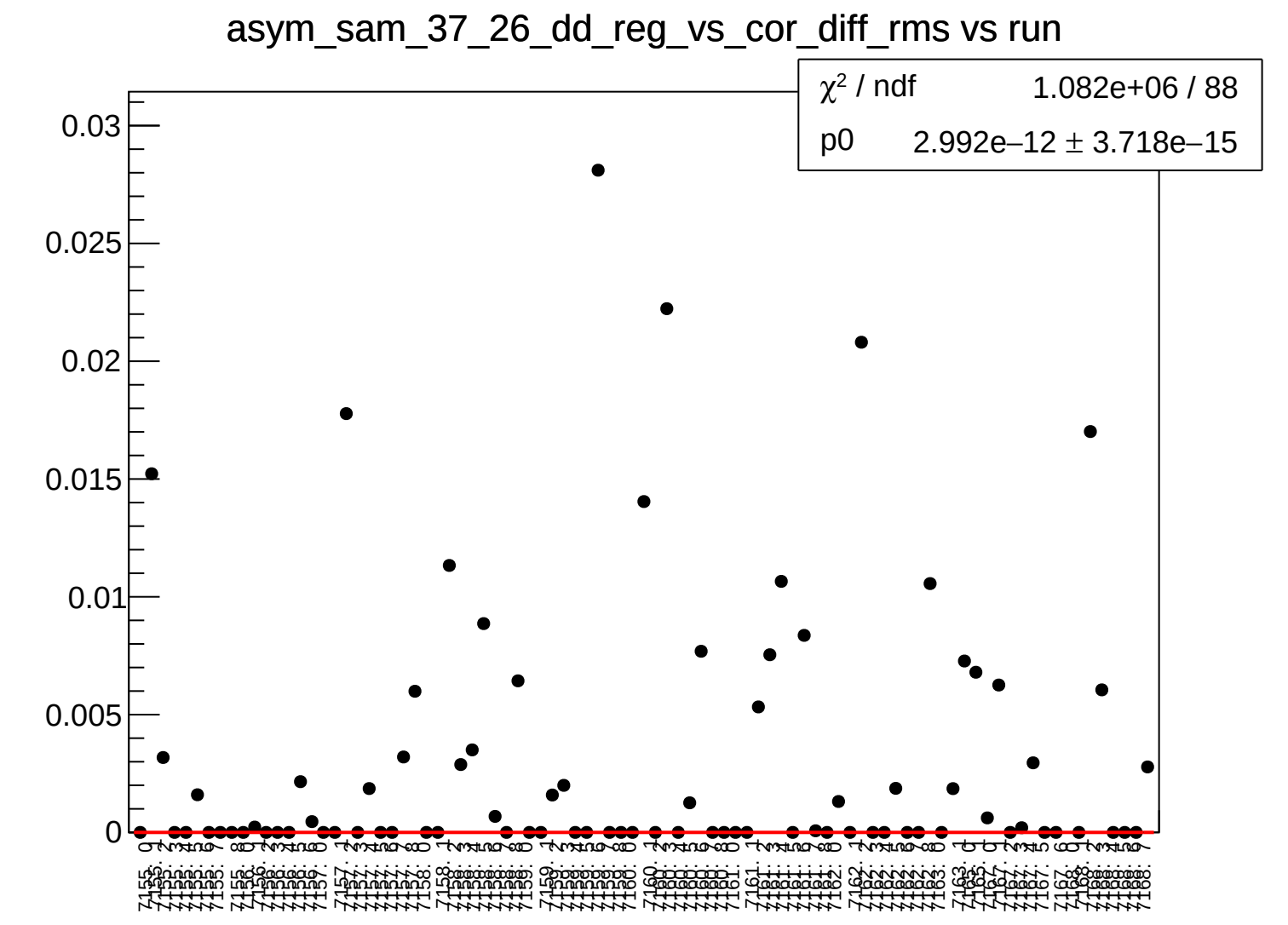

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 4393 / 88
p0 131.6 ± 0.1002
150
145
140
135
130
125
120
115

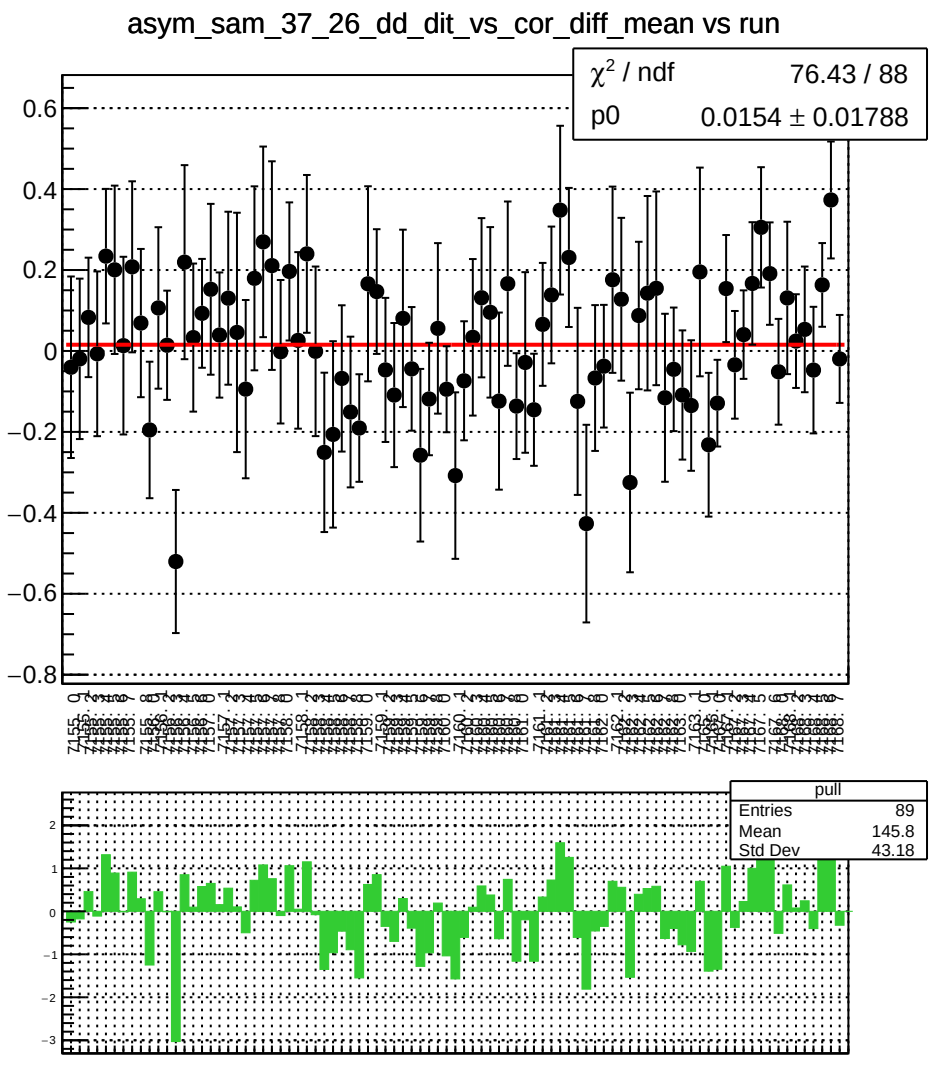

asym_sam_37_26_dd_mean vs run
χ² / ndf 61.46 / 88
p0 −143 ± 135.1
pull
Entries 89
Mean −114.5
Std Dev 0
pull1D
Entries 89
Mean −0.0173
Std Dev 0.8308

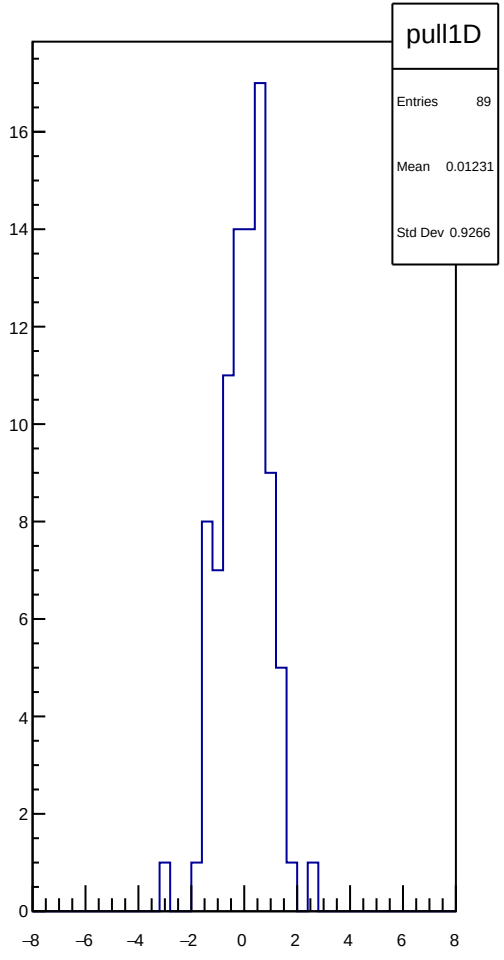

asym_sam_37_26_dd_rms vs run
χ² / ndf 4252 / 88
p0 125.5 ± 0.0955
150
145
140
135
130
125
120
115
110

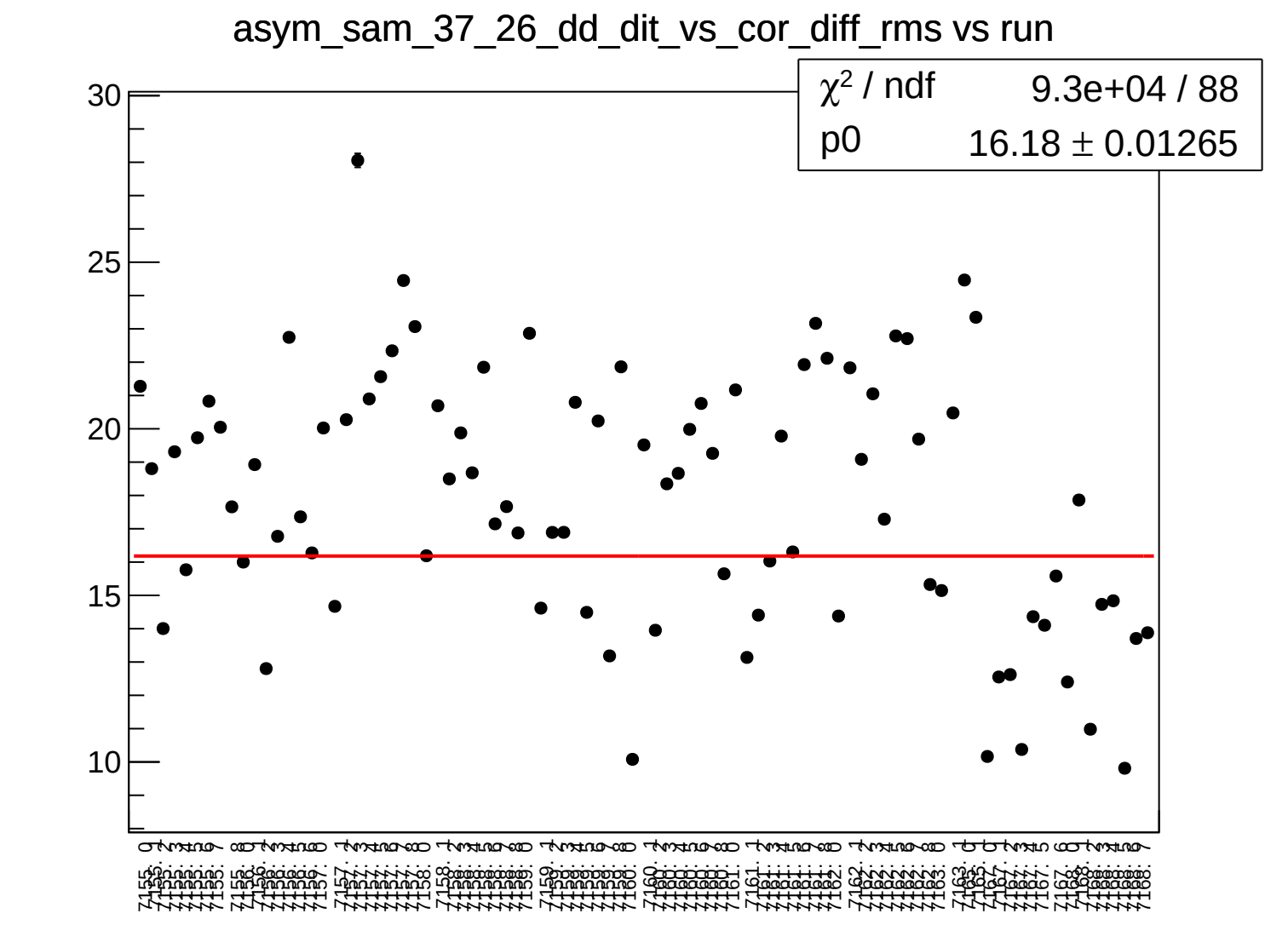

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 95.77 / 88
p0 −7.703e−15 ± 5.258e−15
pull
Entries 89
Mean 93.77
Std Dev 0

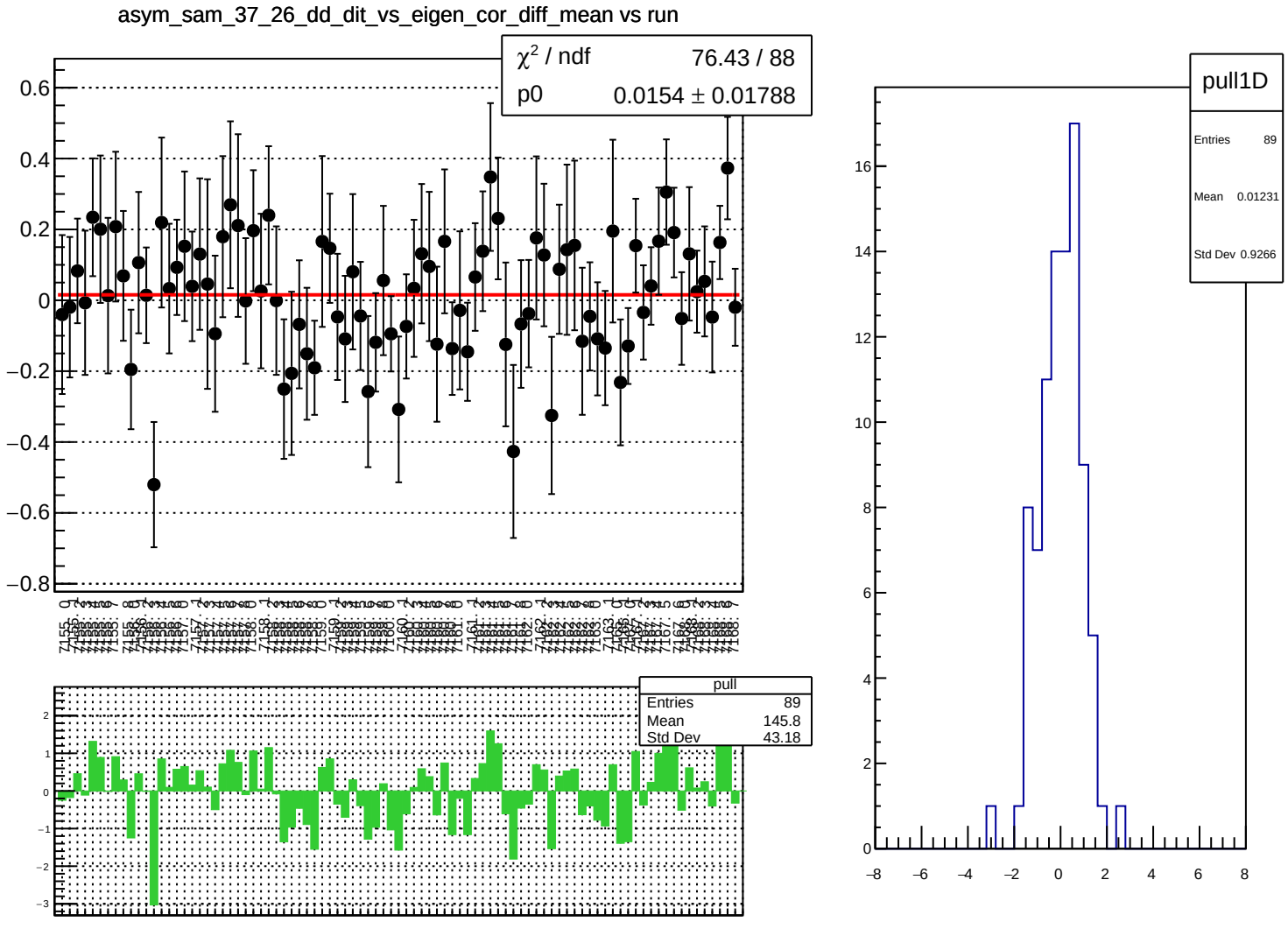

pull1D
Entries 89
Mean −0.07316
Std Dev 1.035

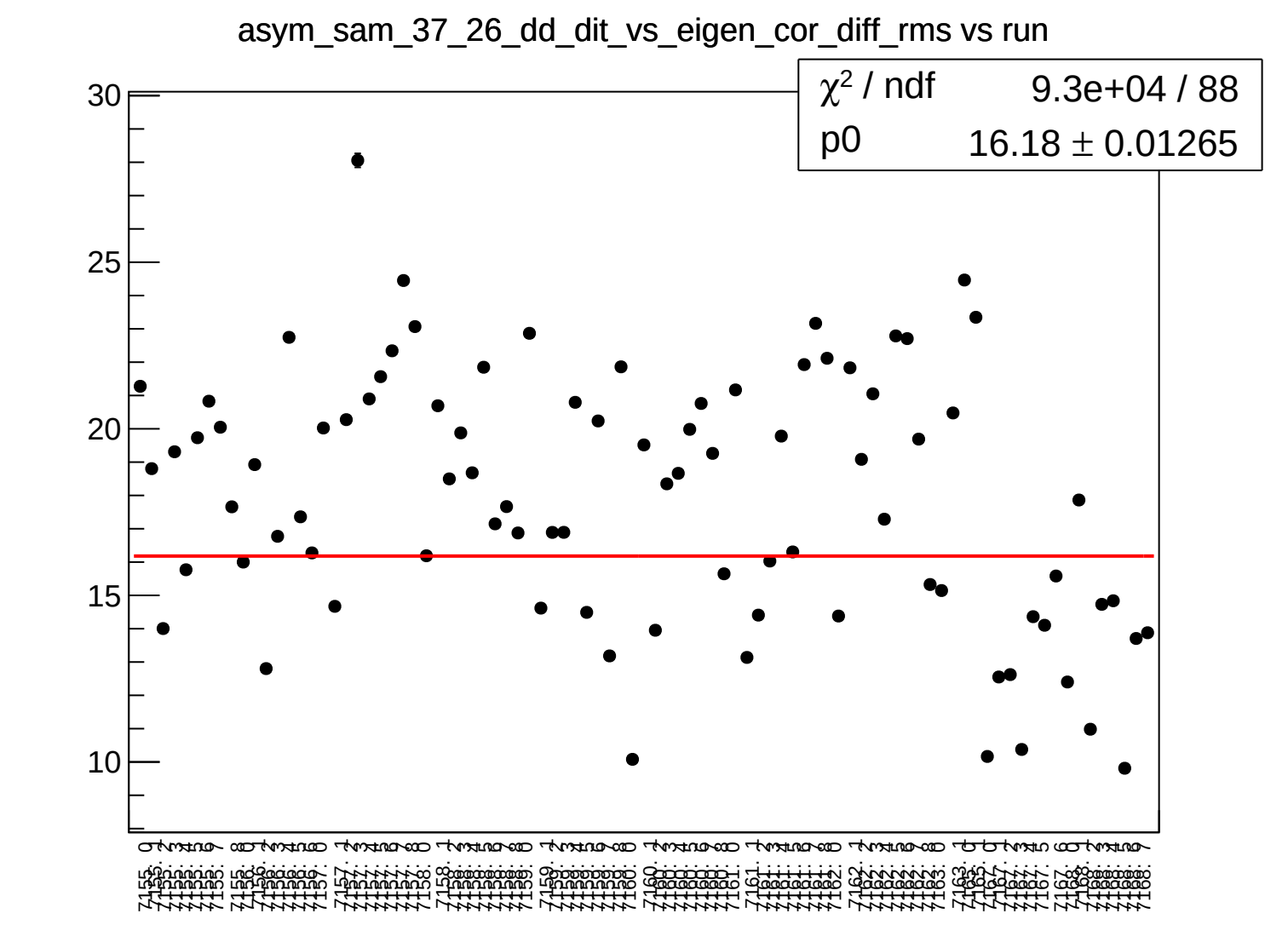

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.082e+06 / 88
p0 2.992e−12 ± 3.718e−15
0.03
0.025
0.02
0.015
0.01
0.005
0

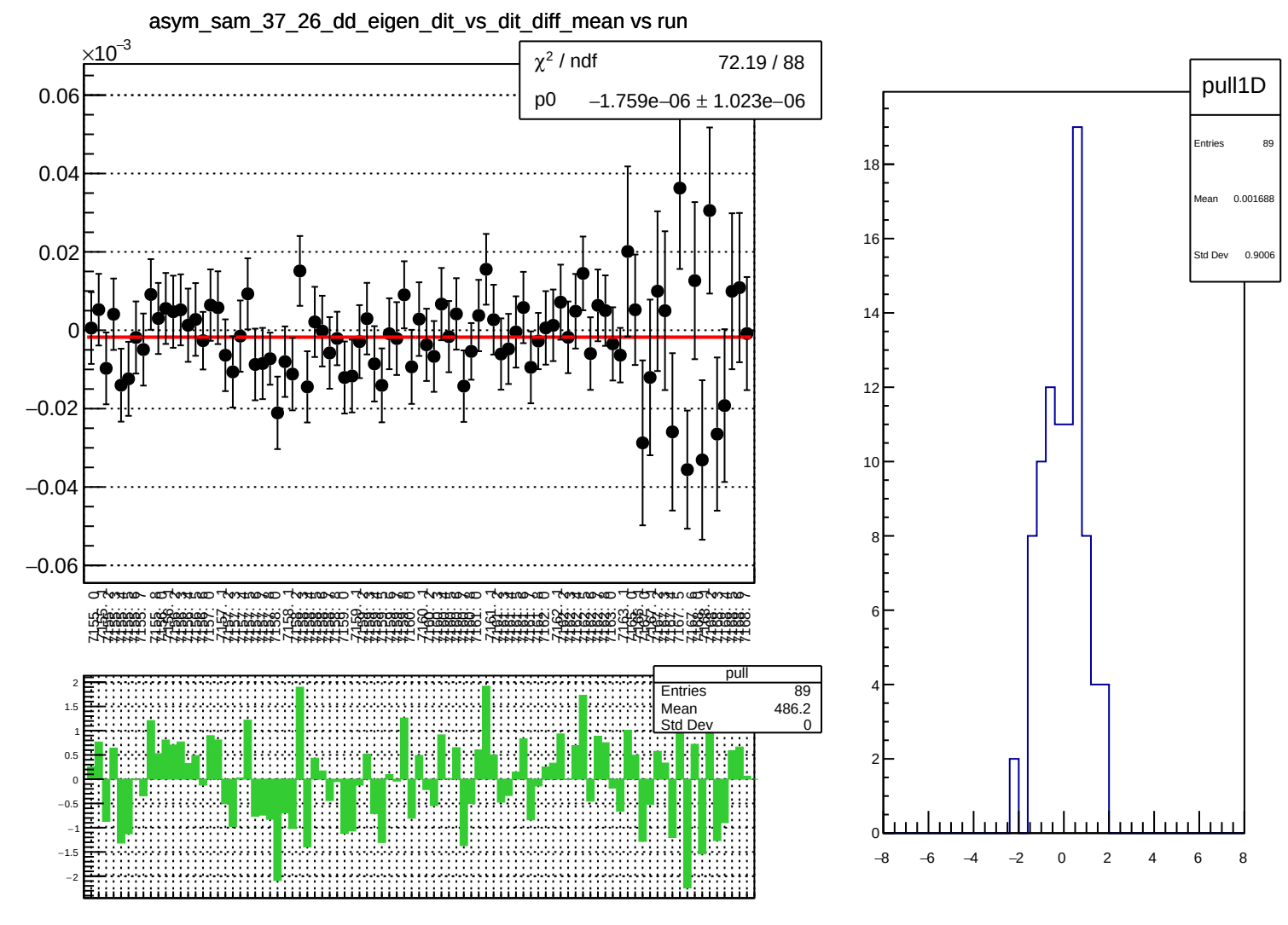

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 76.43 / 88
p0 0.0154 ± 0.01788
pull
Entries 89
Mean 145.8
Std Dev 43.18

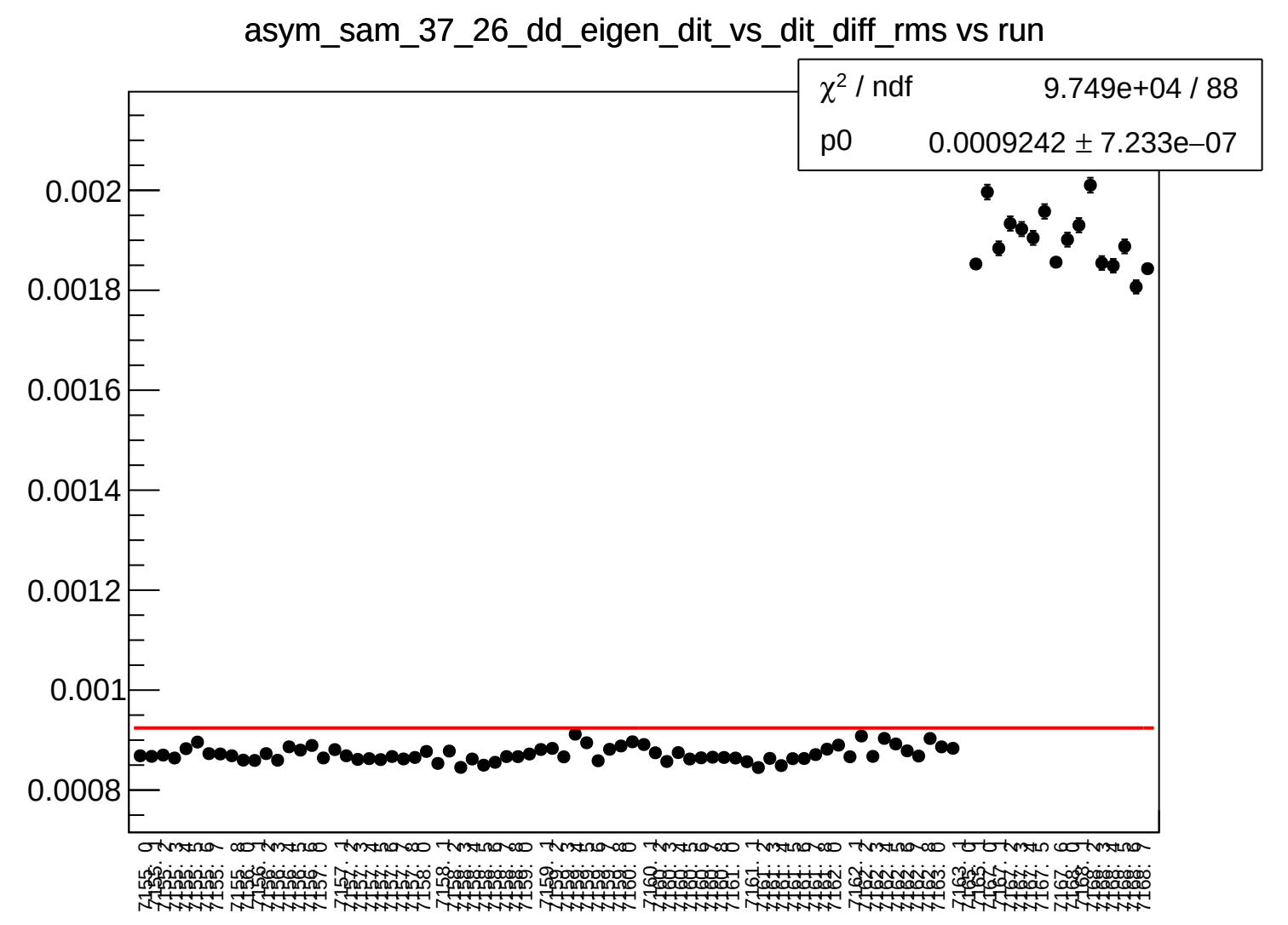

pull1D
Entries 89
Mean 0.01231
Std Dev 0.9266

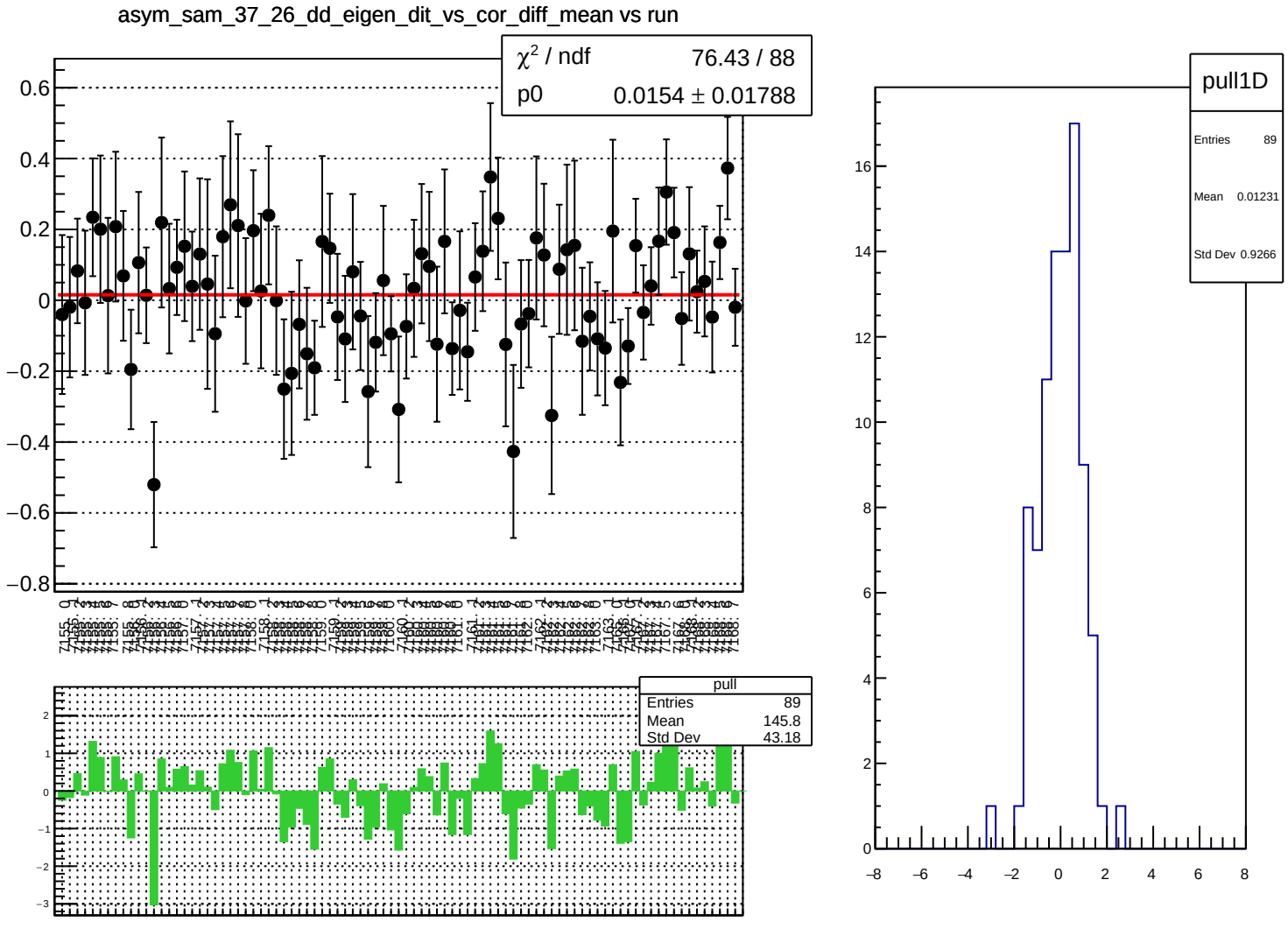

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.3e+04 / 88
p0 16.18 ± 0.01265
30
25
20
15
10

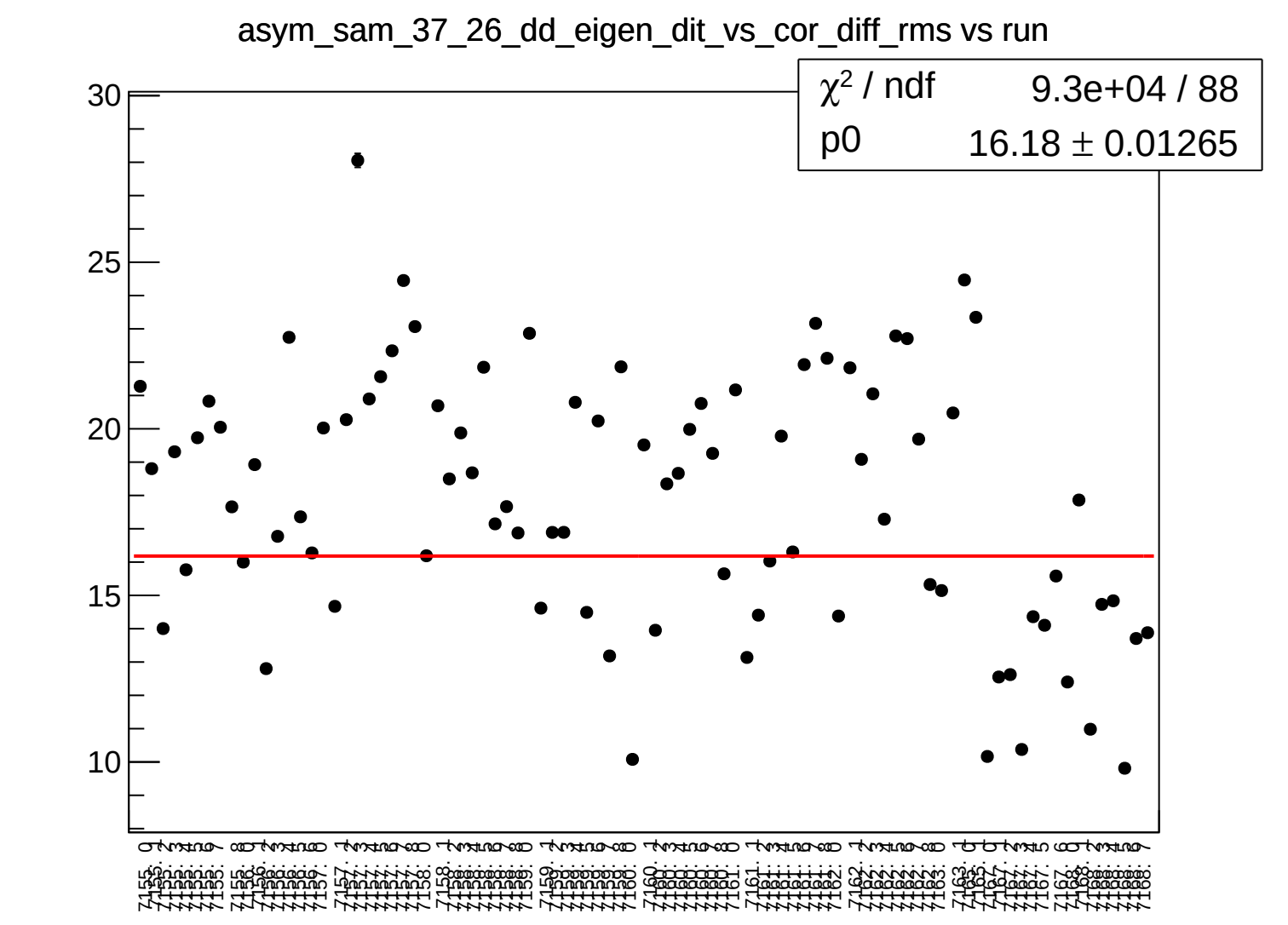

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.43 / 88
p0 0.0154 ± 0.01788
pull
Entries 89
Mean 145.8
Std Dev 43.18
pull1D
Entries 89
Mean 0.01231
Std Dev 0.9266

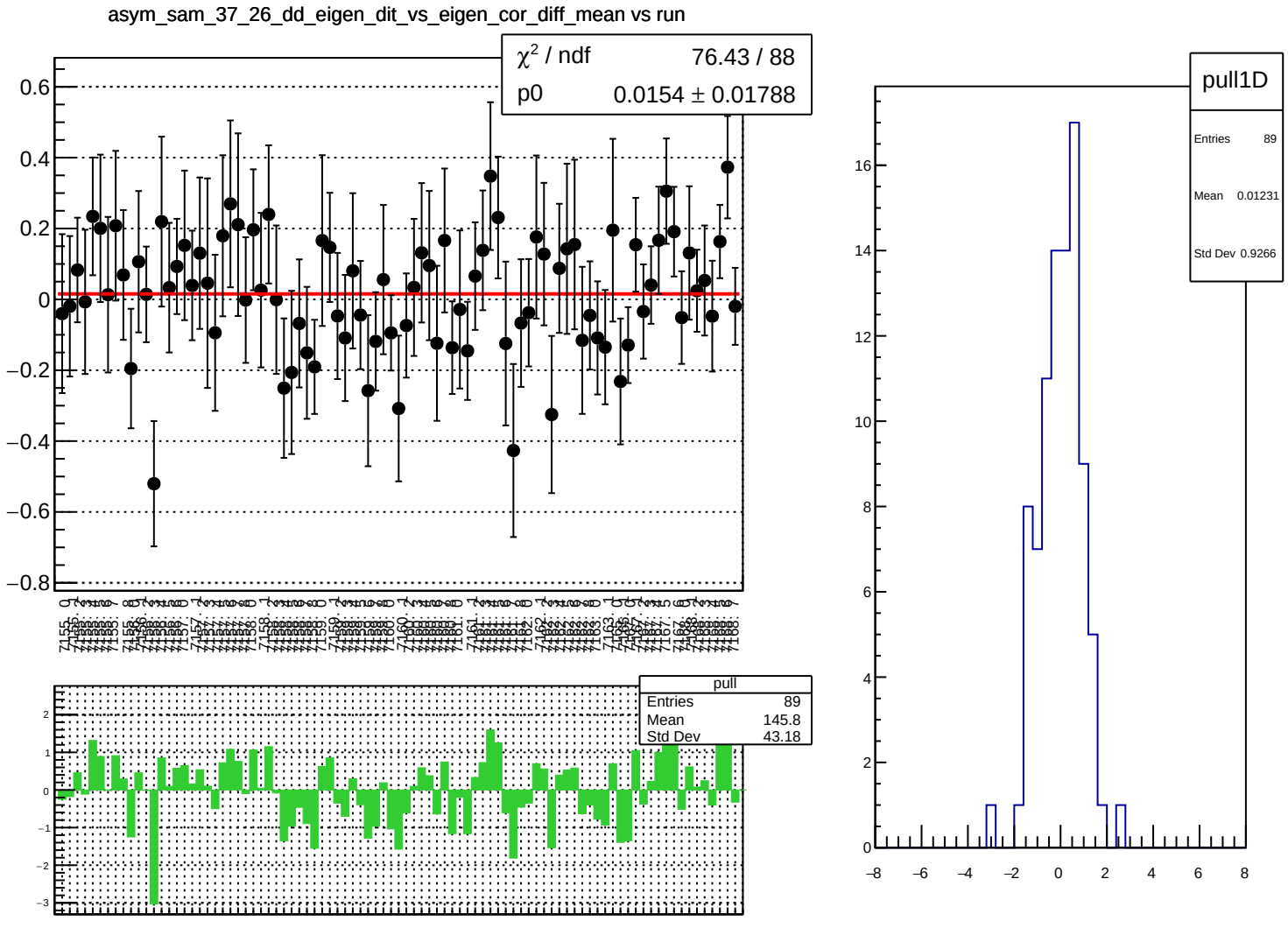

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.3e+04 / 88
p0 16.18 ± 0.01265
30
25
20
15
10

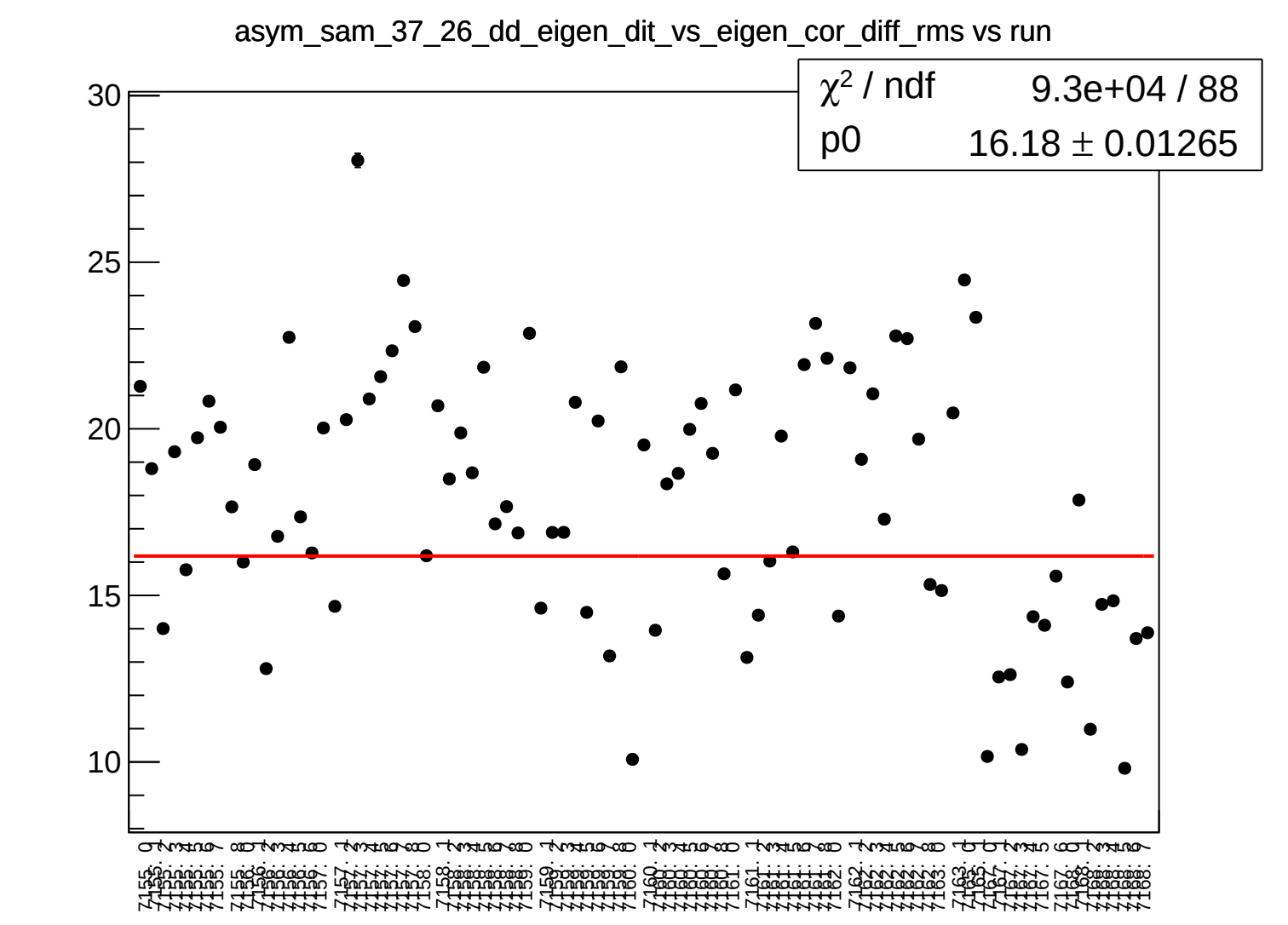

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 72.19 / 88
p0 −1.759e−06 ± 1.023e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean 486.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.001688
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

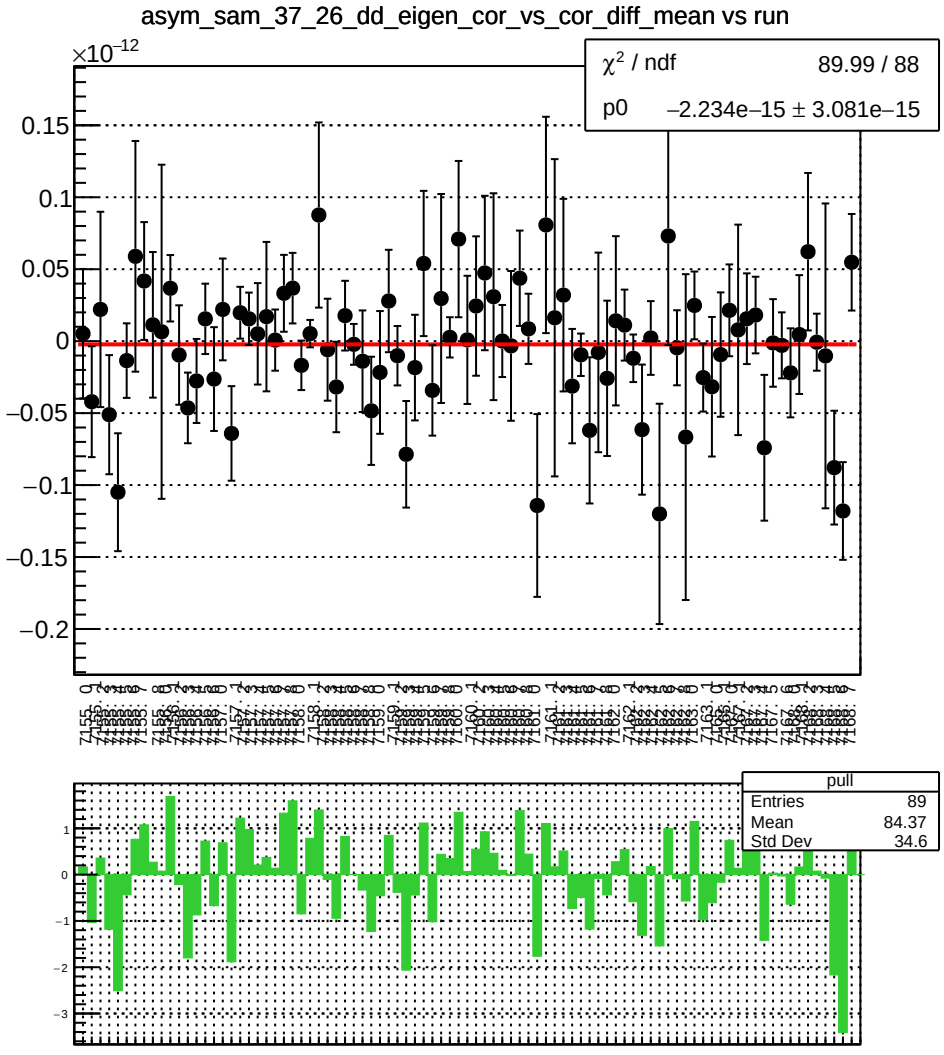

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.749e+04 / 88
p0 0.0009242 ± 7.233e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

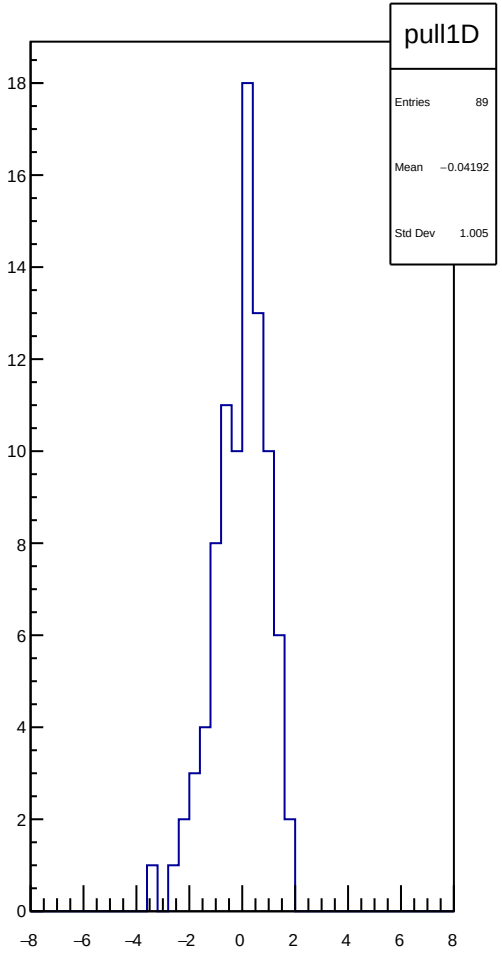

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.43 / 88
p0 0.0154 ± 0.01788
pull
Entries 89
Mean 145.8
Std Dev 43.18
pull1D
Entries 89
Mean 0.01231
Std Dev 0.9266

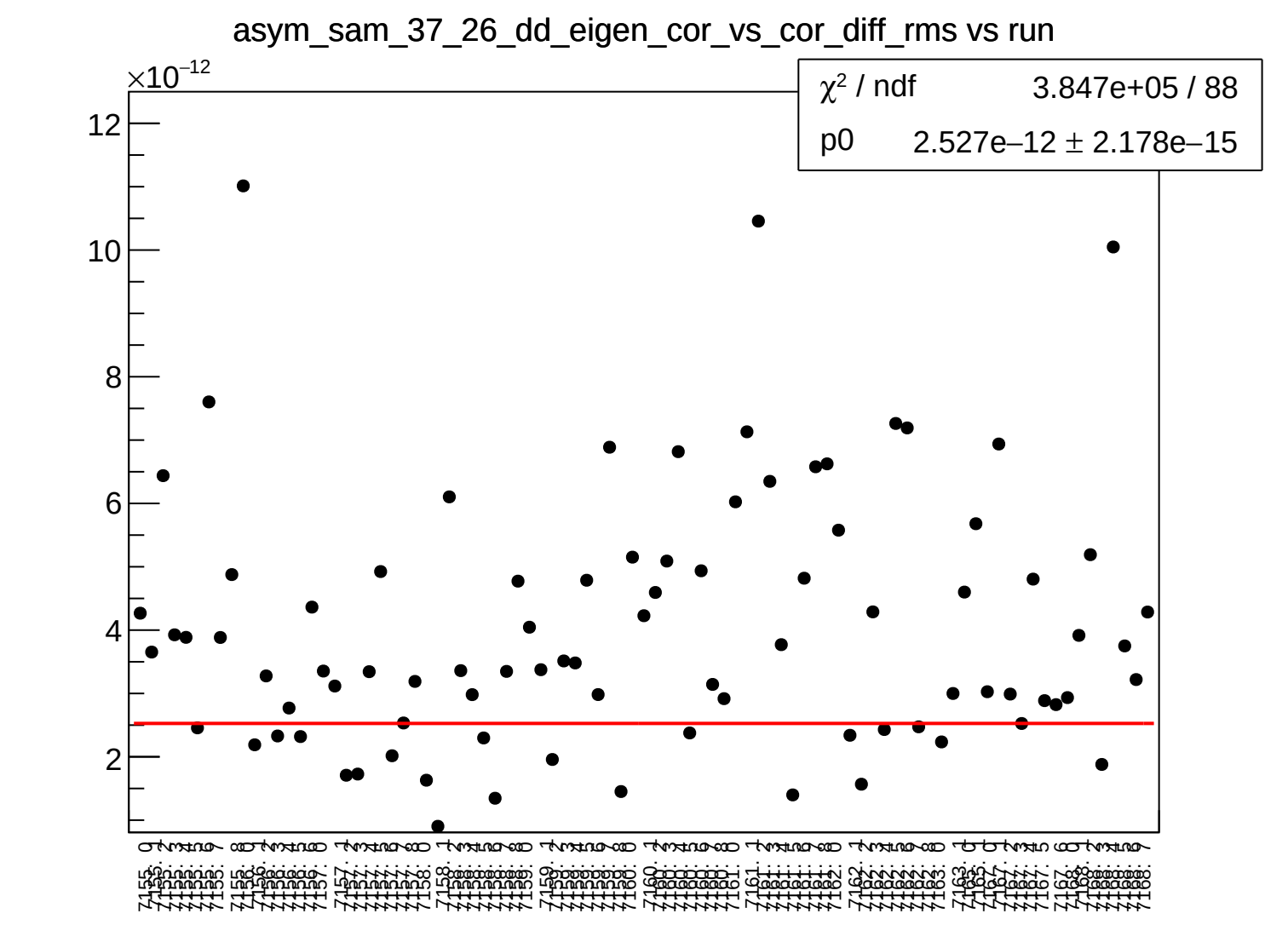

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.3e+04 / 88
p0 16.18 ± 0.01265
30
25
20
15
10

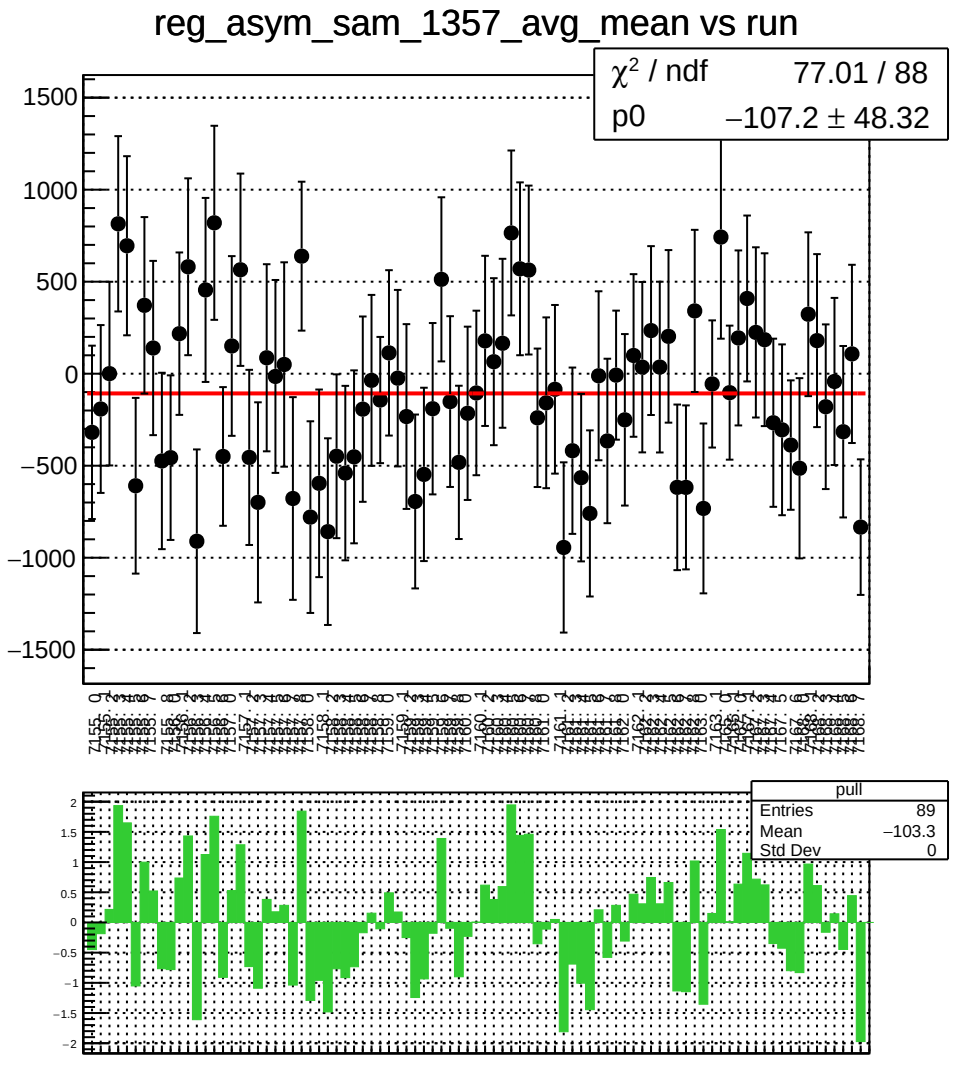

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.43 / 88
p0 0.0154 ± 0.01788
pull
Entries 89
Mean 145.8
Std Dev 43.18
pull1D
Entries 89
Mean 0.01231
Std Dev 0.9266

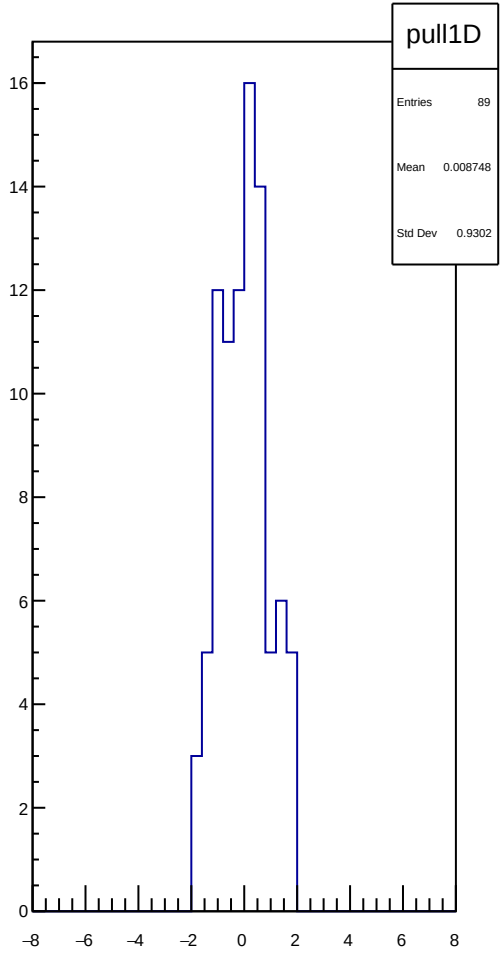

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.3e+04 / 88
p0 16.18 ± 0.01265
30
25
20
15
10

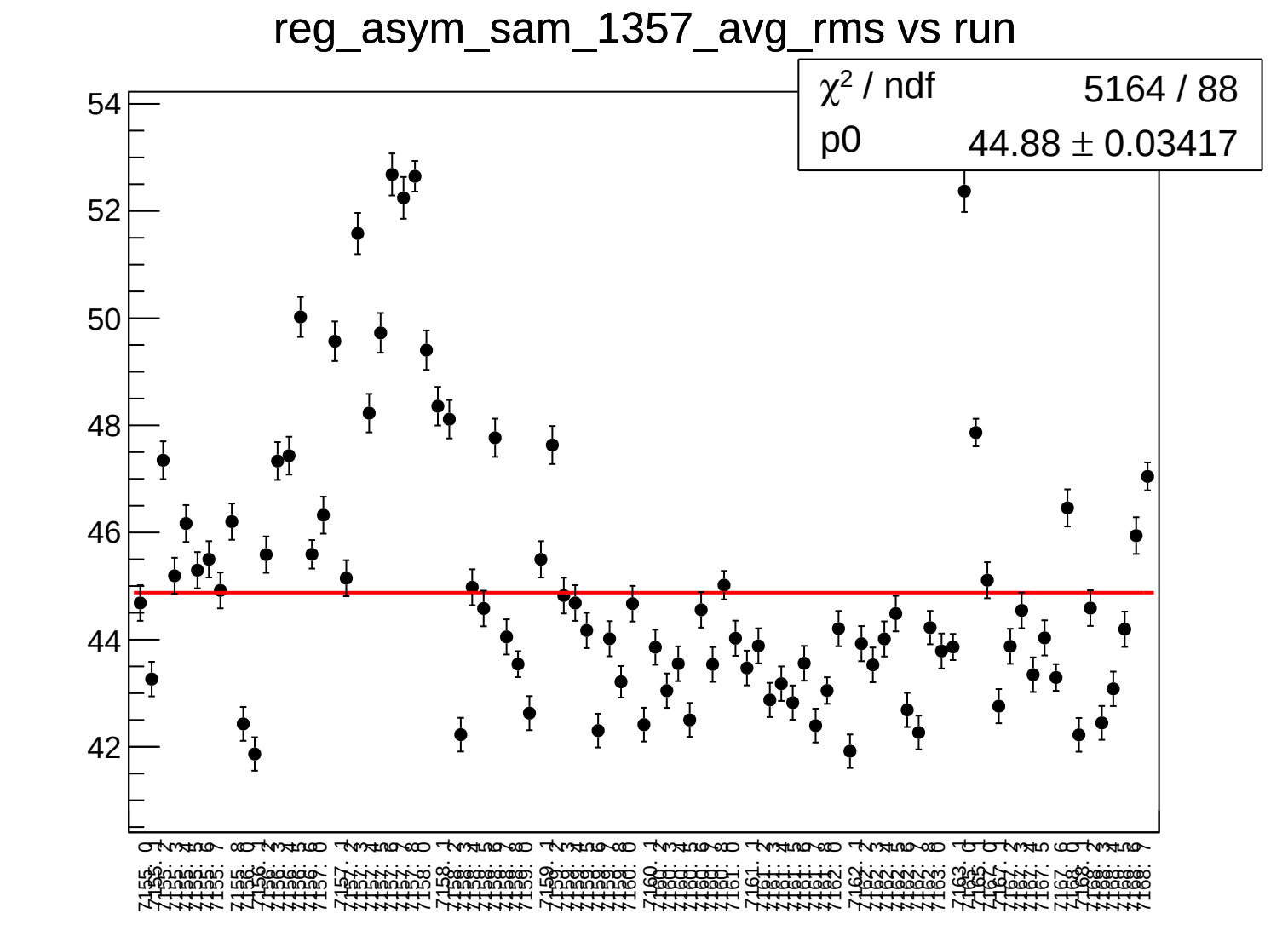

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.99 / 88
p0 −2.234e−15 ± 3.081e−15
pull
Entries 89
Mean 84.37
Std Dev 34.6

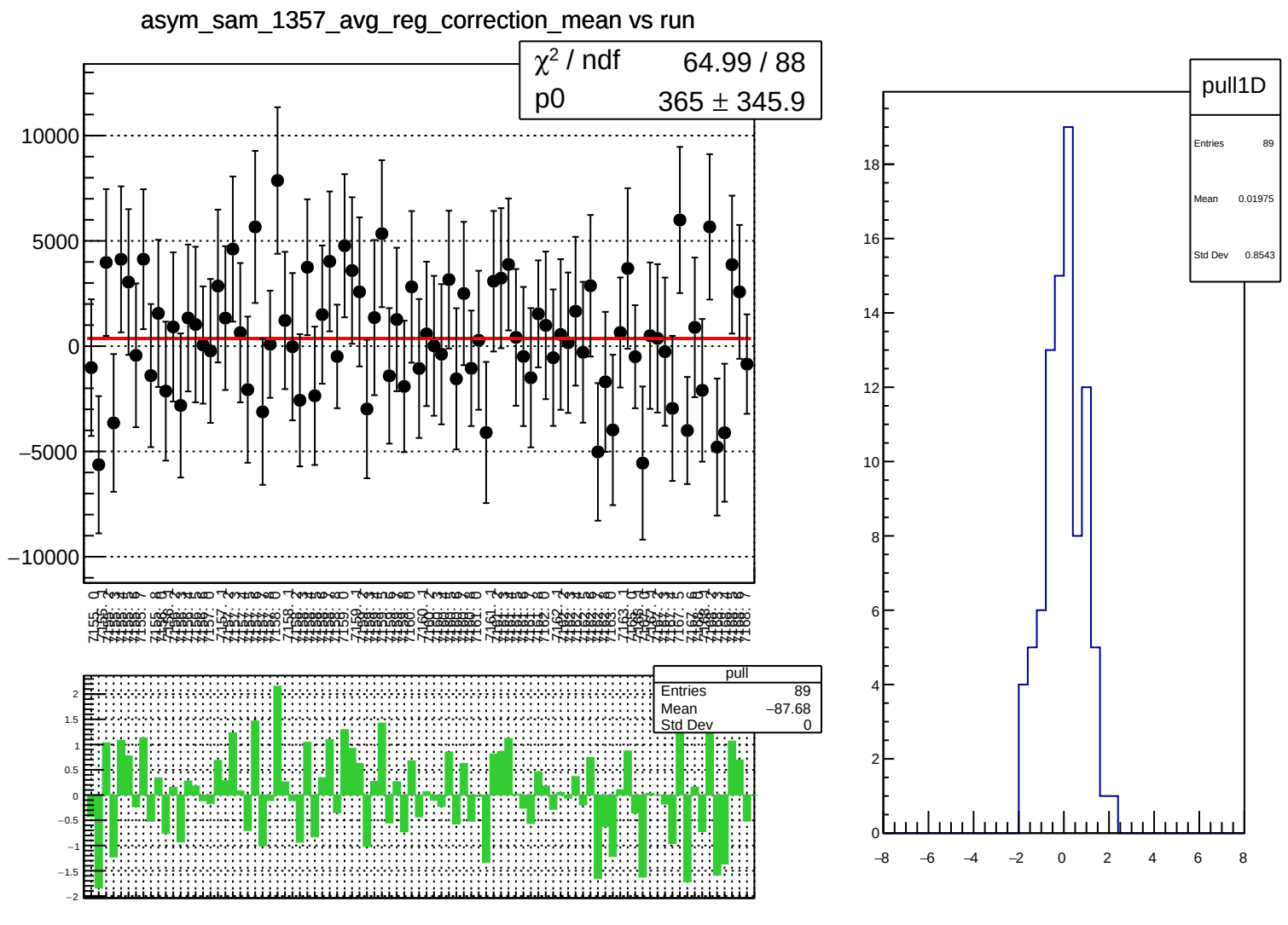

pull1D
Entries 89
Mean −0.04192
Std Dev 1.005

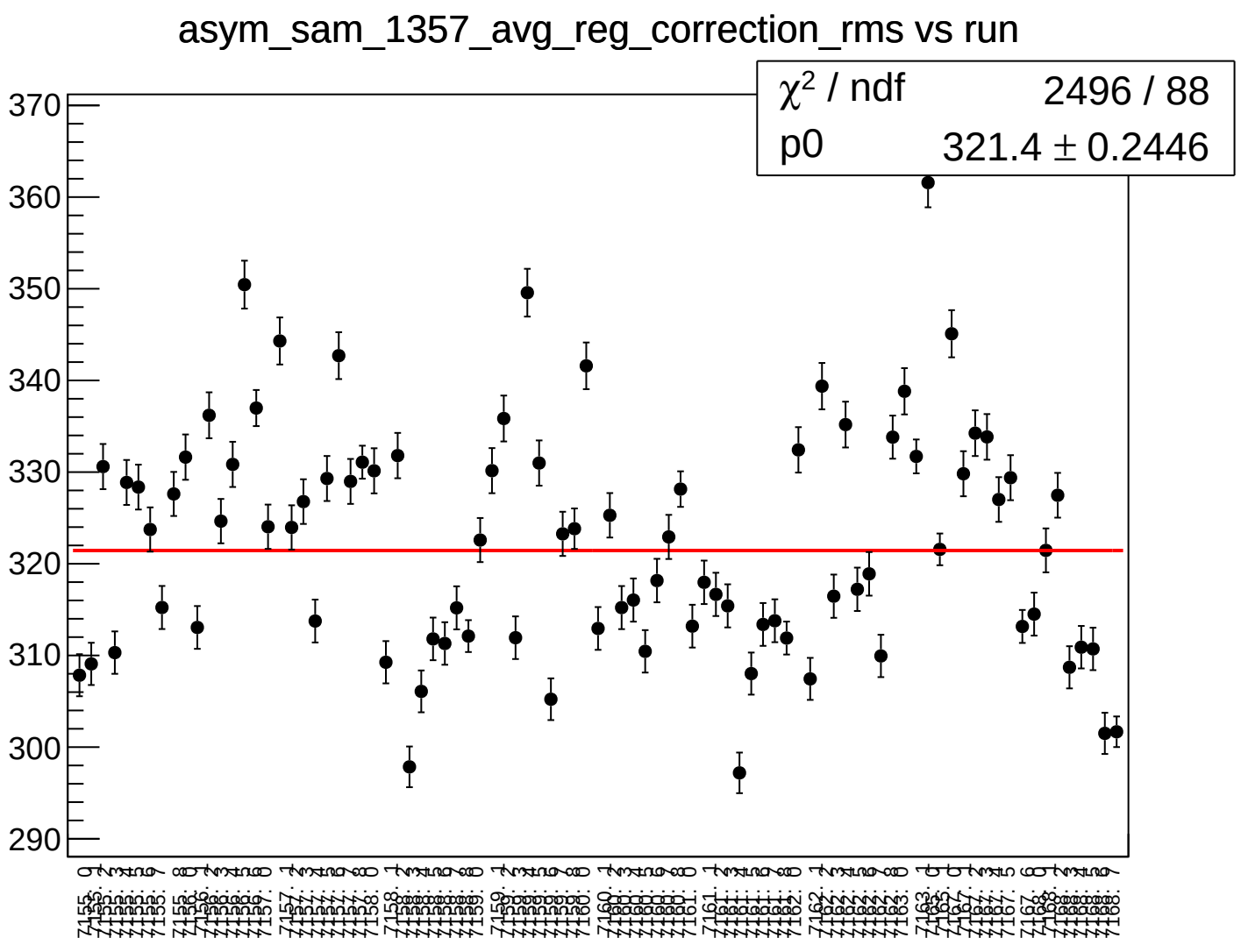

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.847e+05 / 88
p0 2.527e−12 ± 2.178e−15
12
10
8
6
4
2

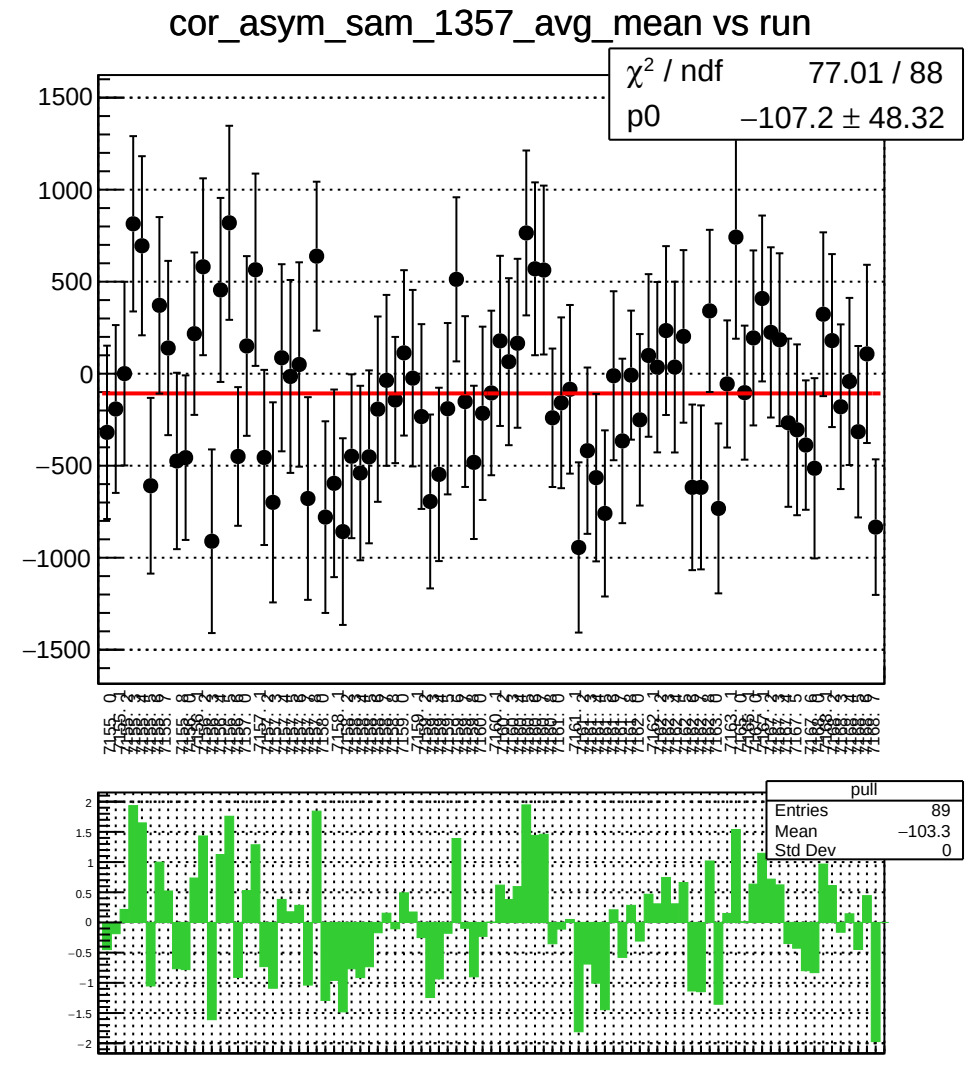

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 77.01 / 88
p0 −107.2 ± 48.32
1500
1000
500
0
−500
−1000
−1500
pull
Entries 89
Mean −103.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

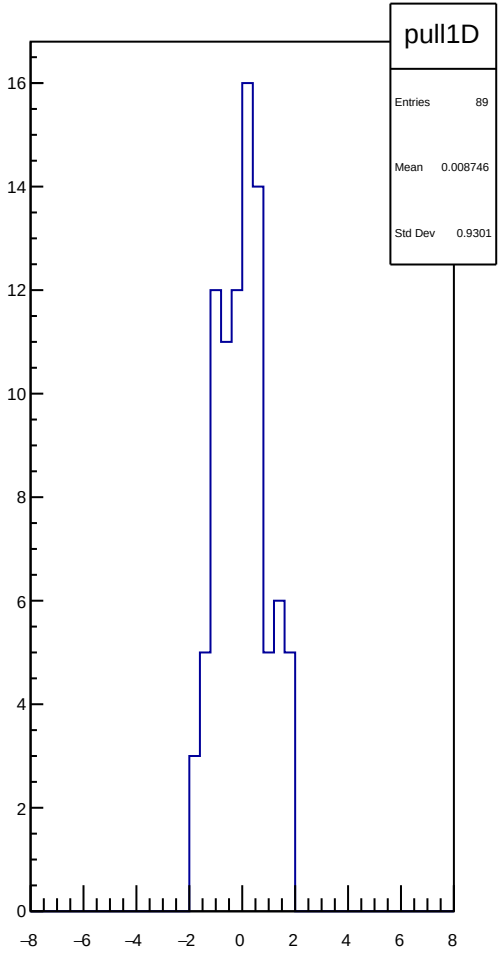

pull1D
Entries 89
Mean 0.008748
Std Dev 0.9302
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

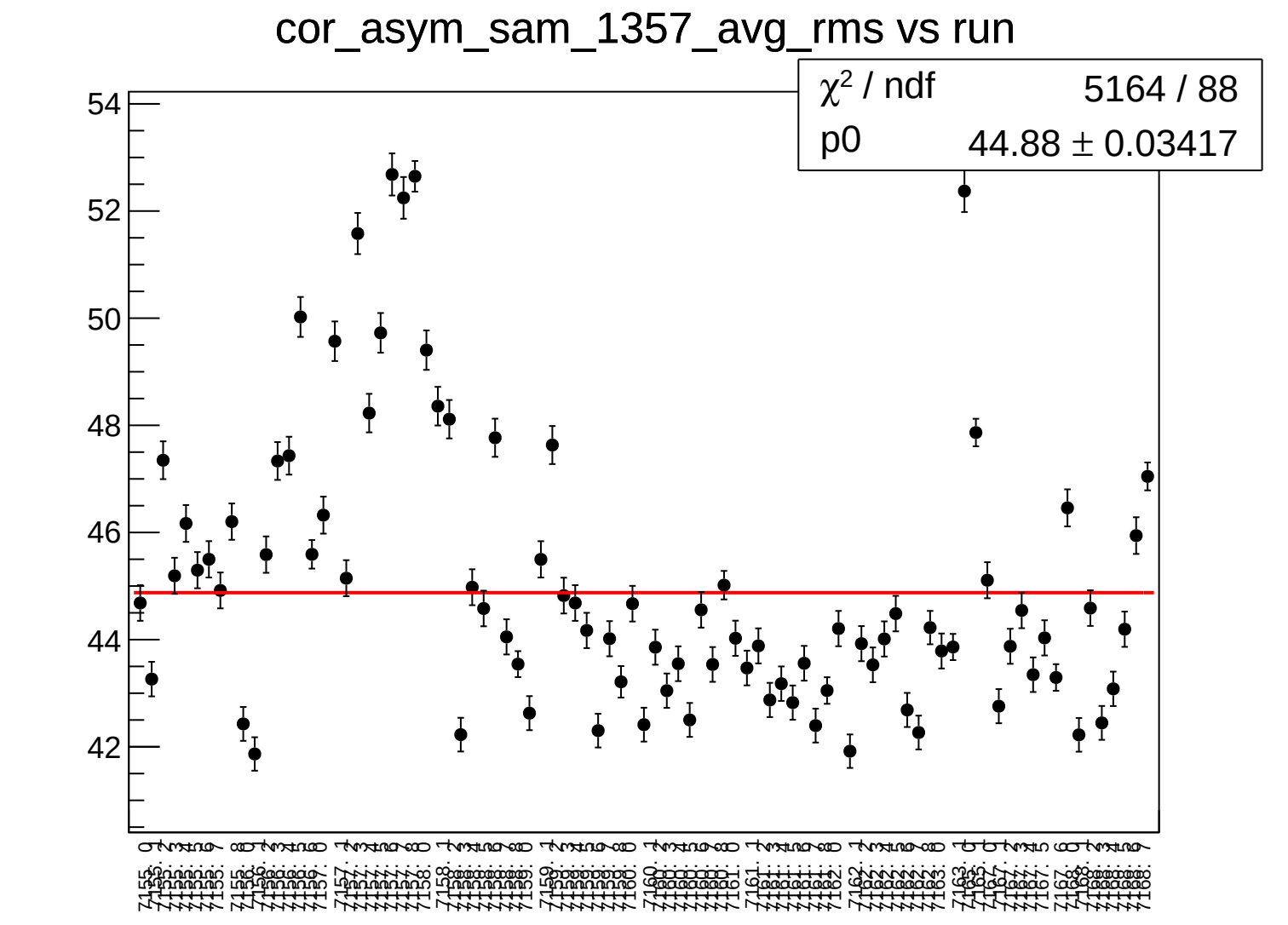

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5164 / 88
p0 44.88 ± 0.03417
54
52
50
48
46
44
42

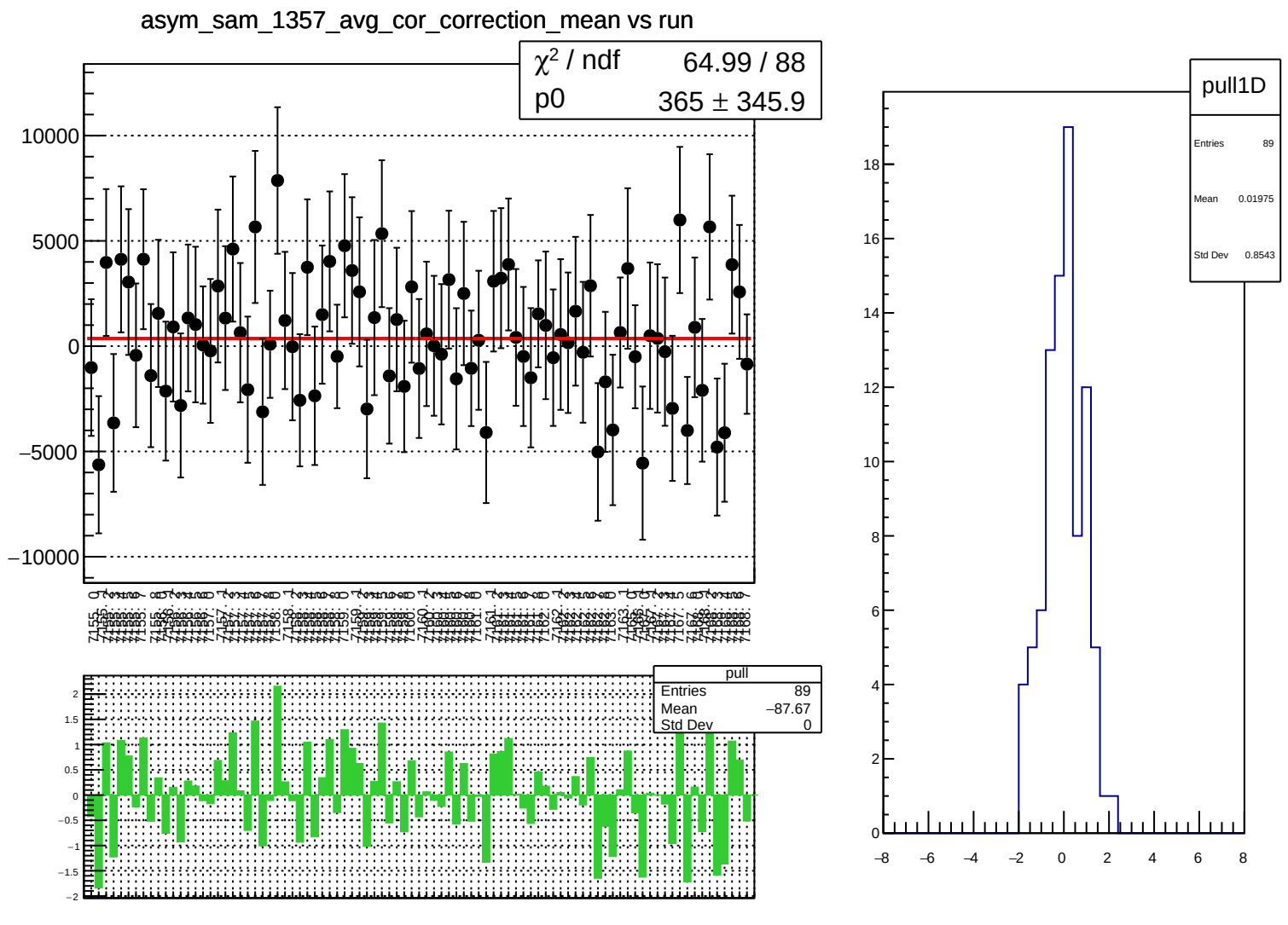

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 64.99 / 88
p0 365 ± 345.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −87.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01975
Std Dev 0.8543
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

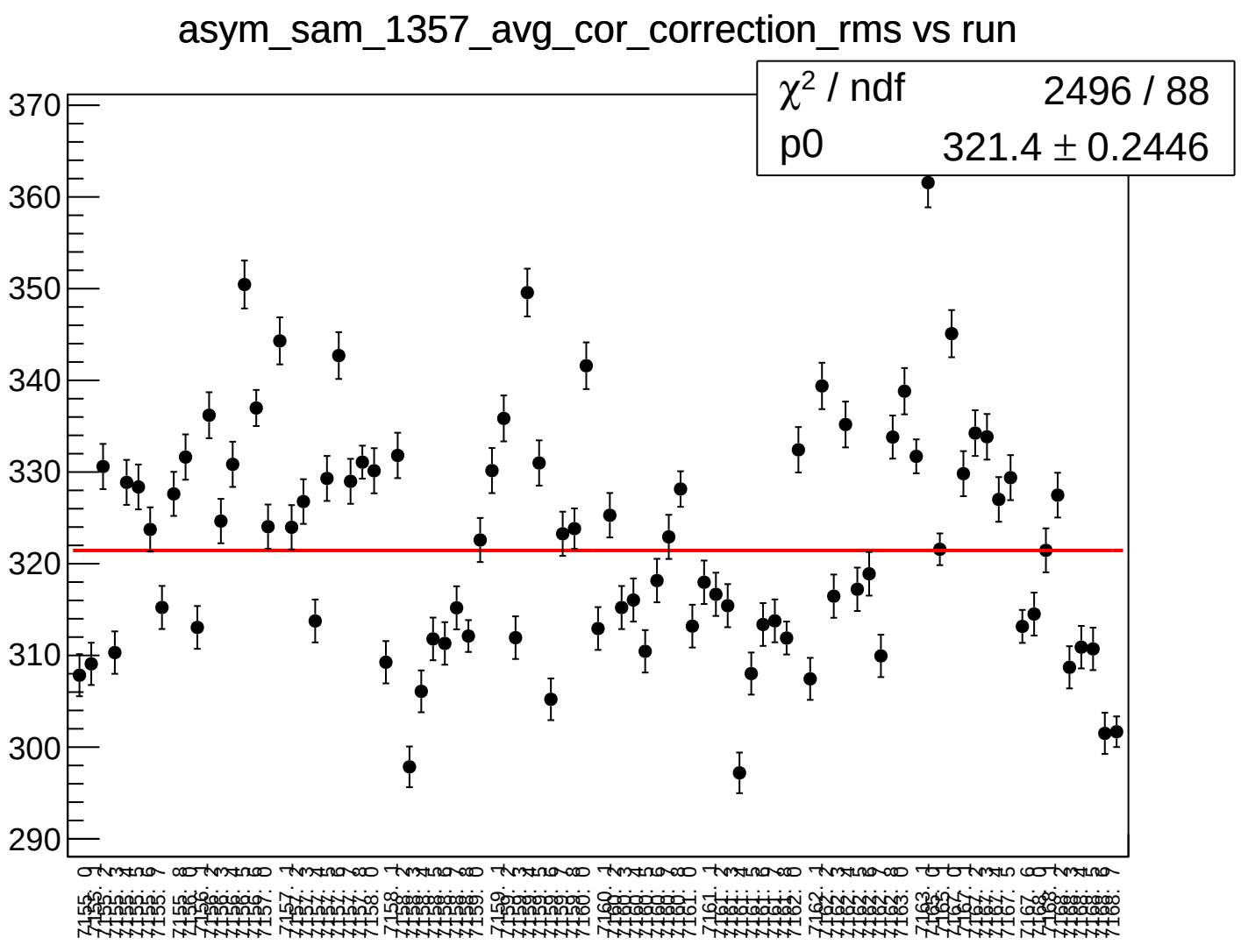

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2496 / 88
p0 321.4 ± 0.2446
370
360
350
340
330
320
310
300
290

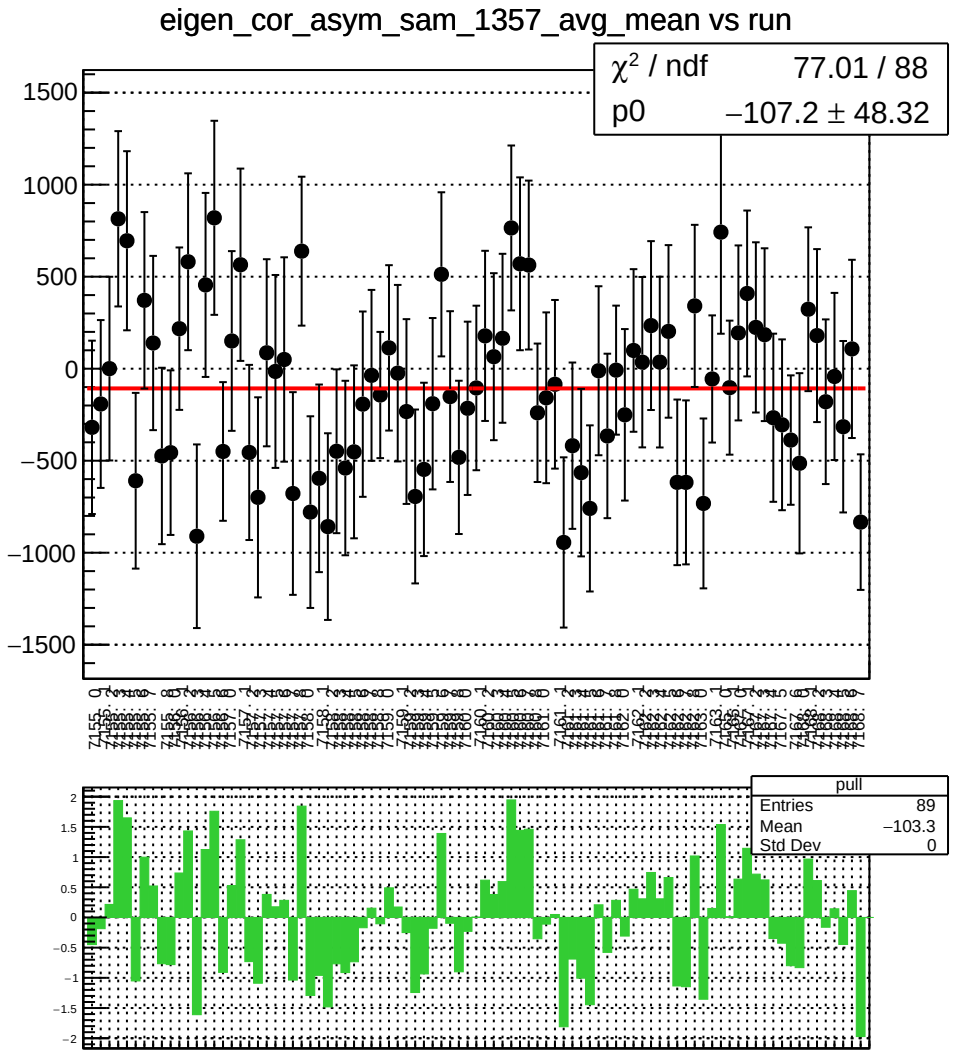

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 77.01 / 88
p0 −107.2 ± 48.32
pull
Entries 89
Mean −103.3
Std Dev 0

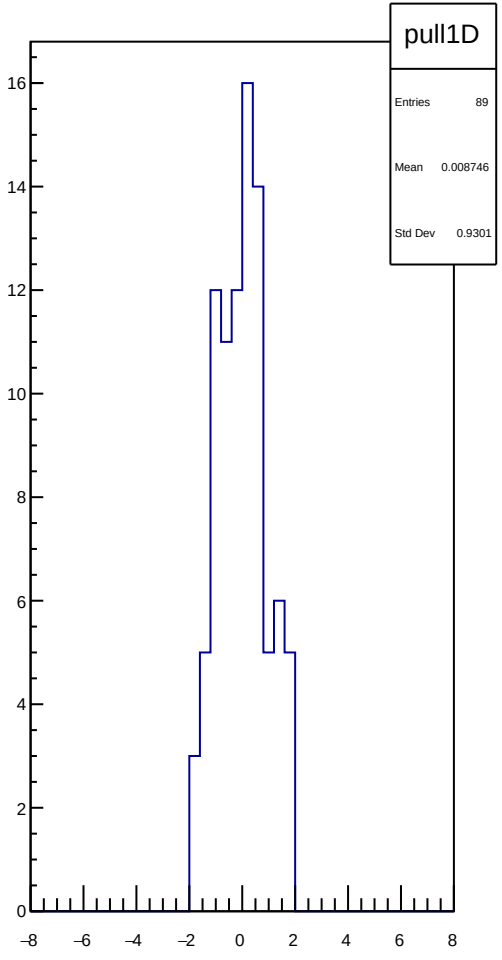

pull1D
Entries 89
Mean 0.008746
Std Dev 0.9301

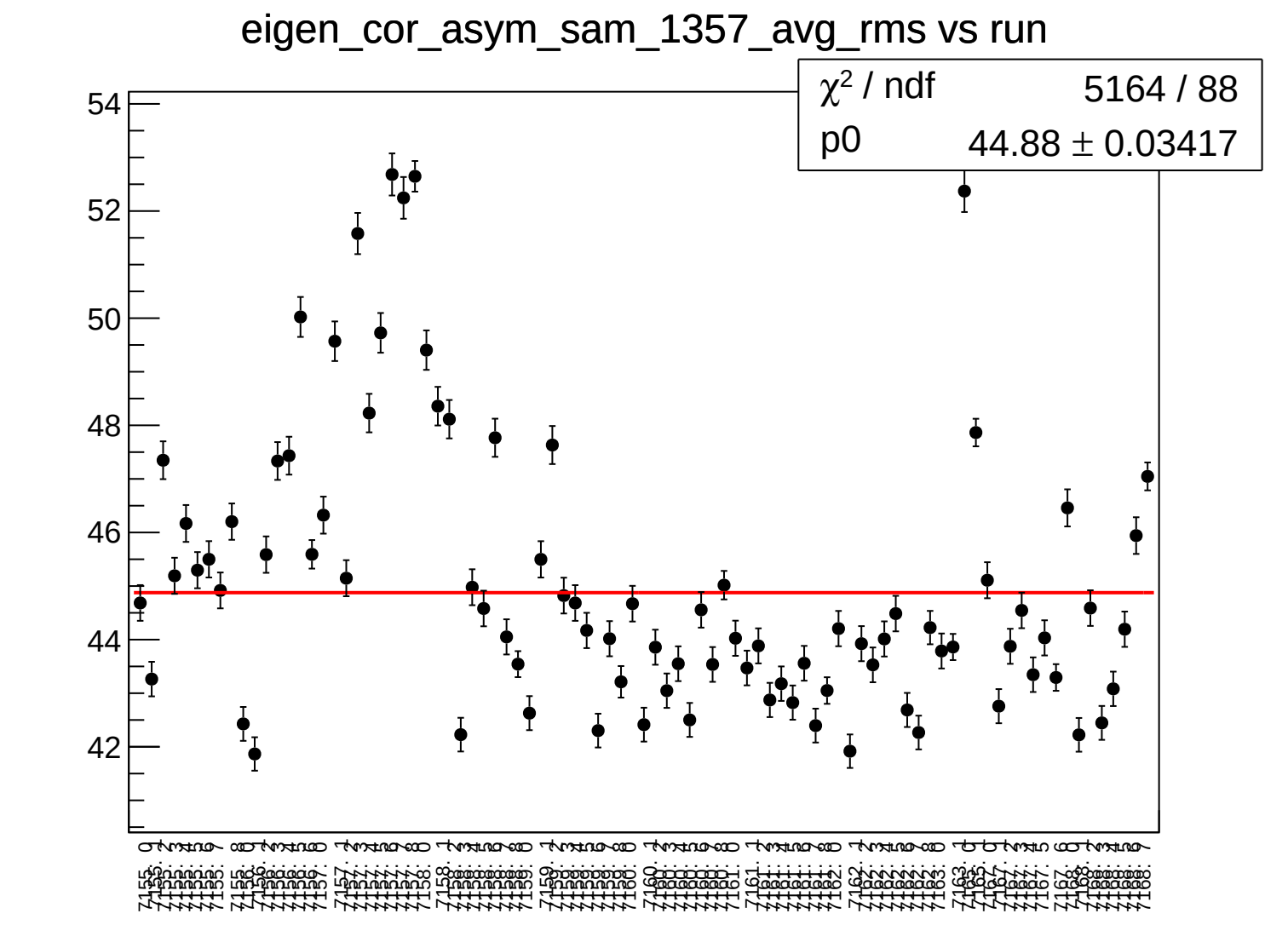

cor_asym_sam_1357_avg_rms vs run
χ² / ndf 5164 / 88
p0 44.88 ± 0.03417
54
52
50
48
46
44
42

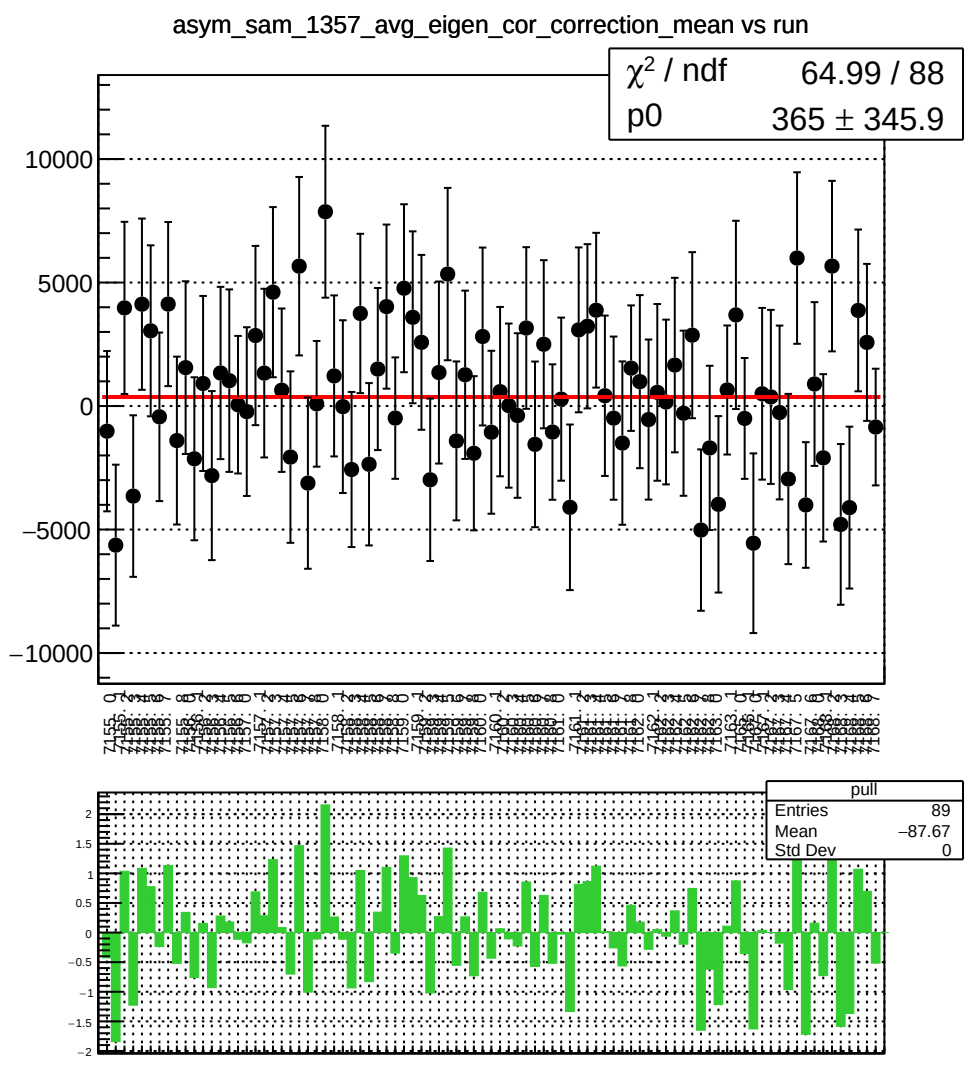

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 64.99 / 88
p0 365 ± 345.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −87.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.01975
Std Dev 0.8543
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

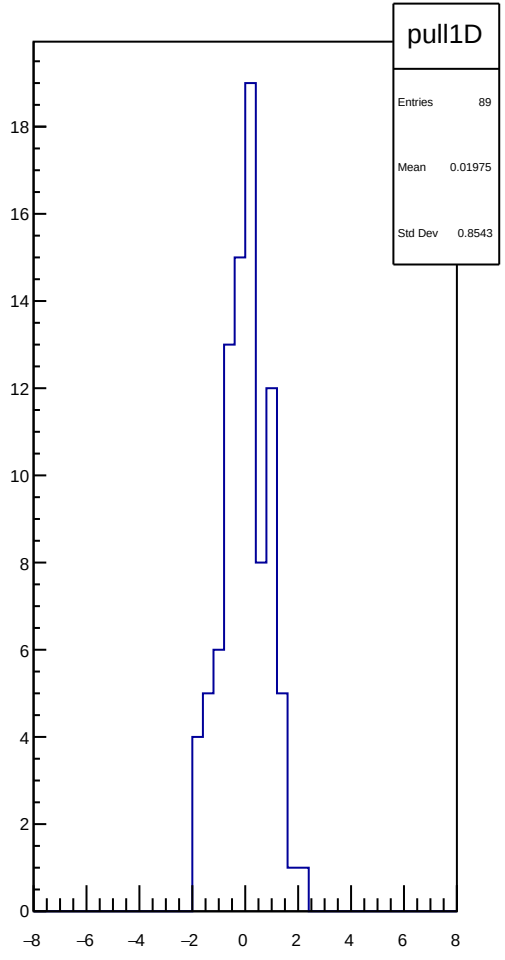

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2496 / 88
p0 321.4 ± 0.2446
370
360
350
340
330
320
310
300
290

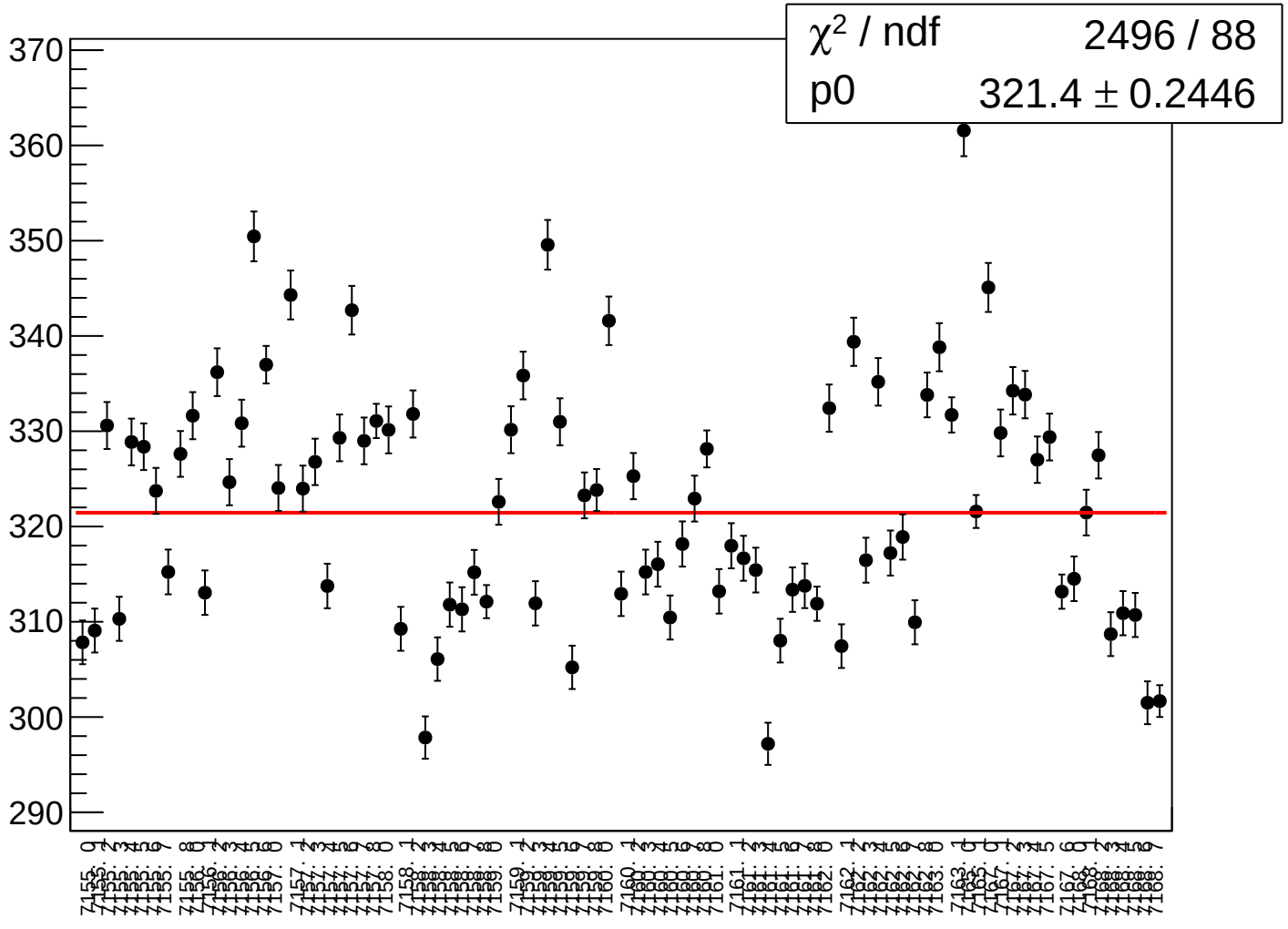

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 77.01 / 88
p0 −107.2 ± 48.32
pull
Entries 89
Mean −103.3
Std Dev 0

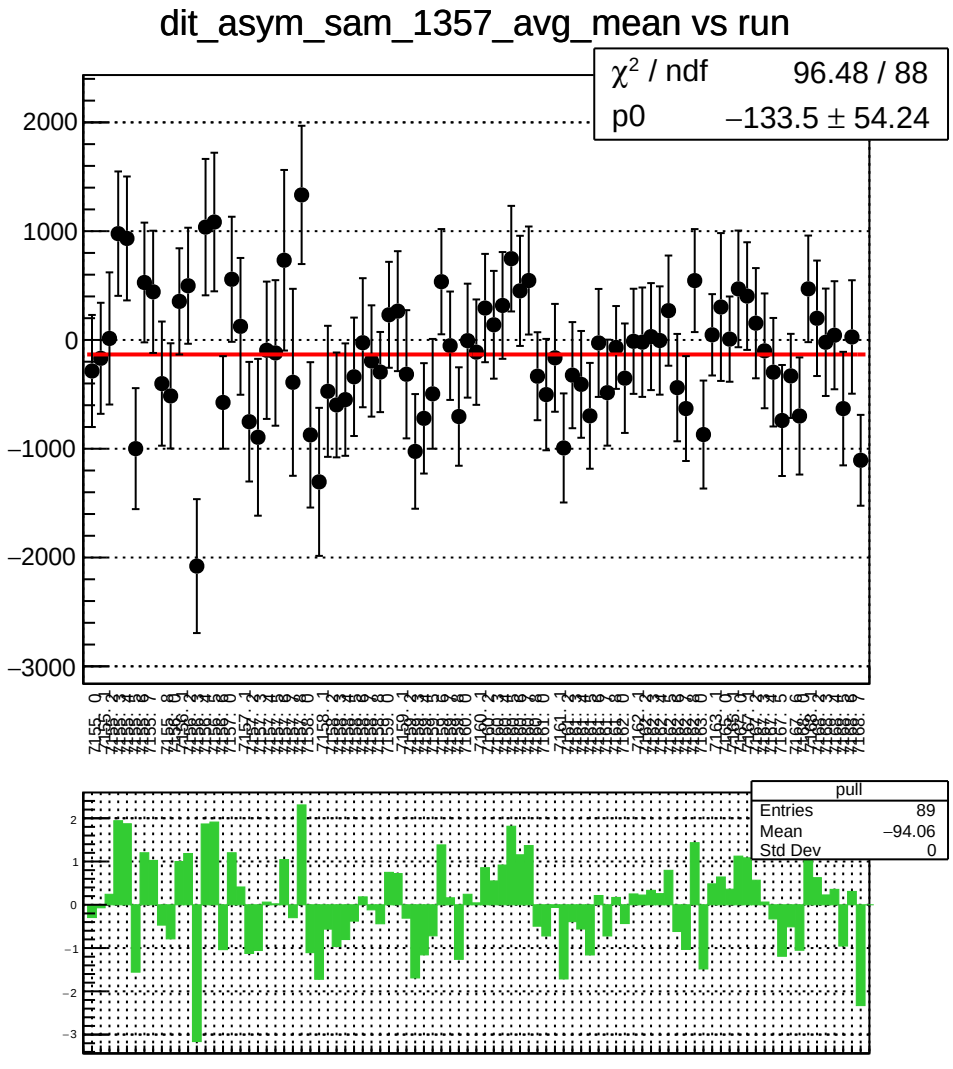

pull1D
Entries 89
Mean 0.008746
Std Dev 0.9301

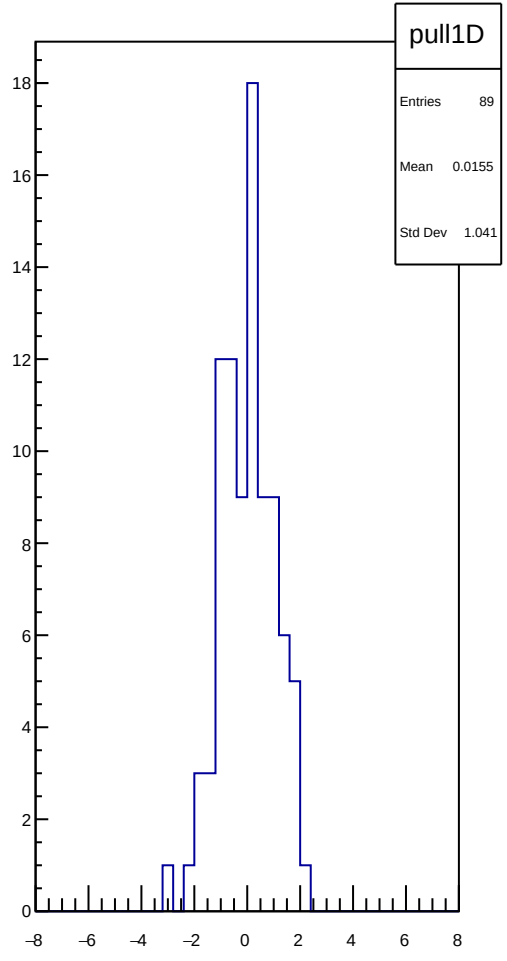

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 5164 / 88
p0 44.88 ± 0.03417
54
52
50
48
46
44
42

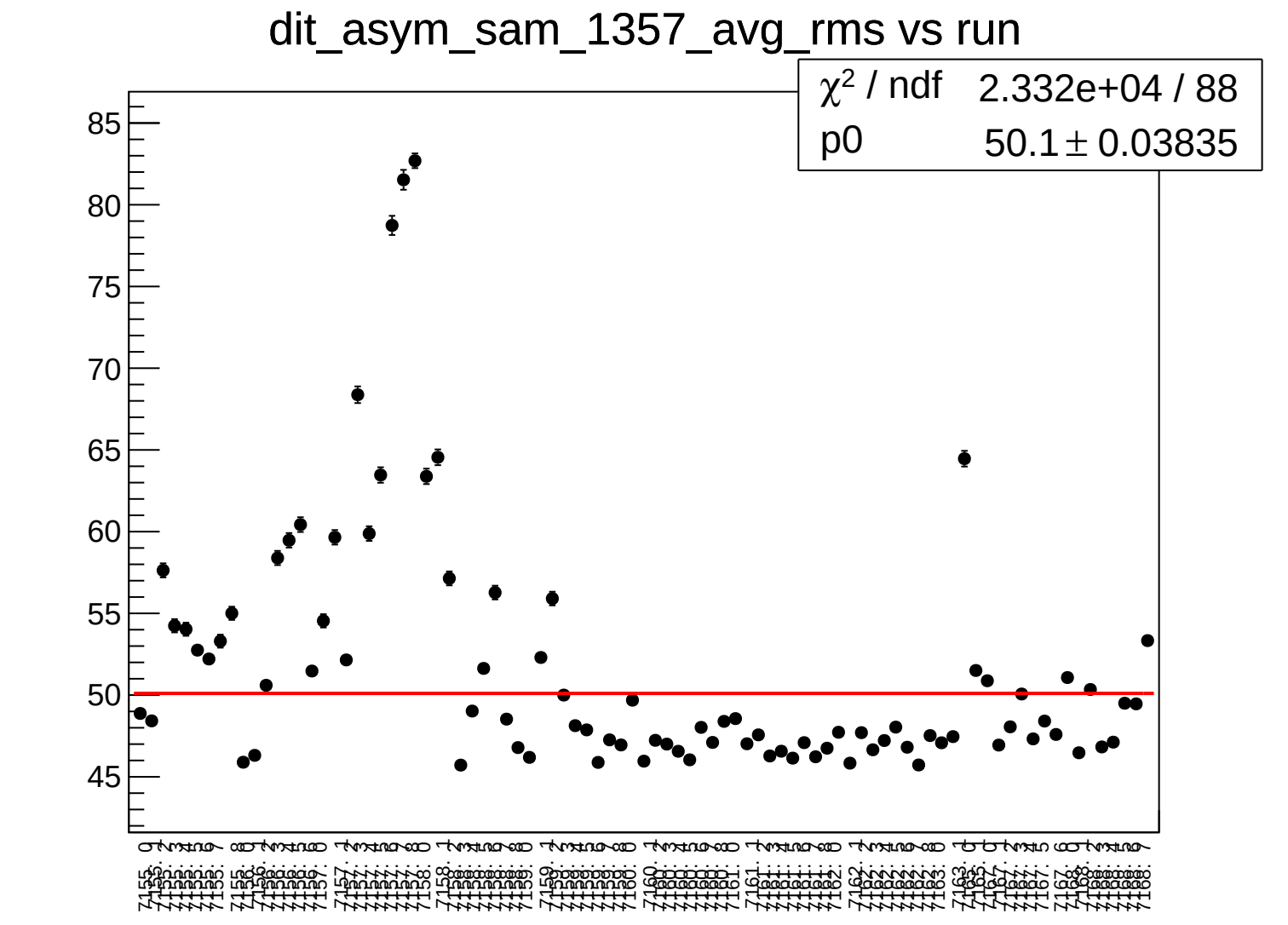

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 64.99 / 88
p0 365 ± 345.9
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −87.67
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

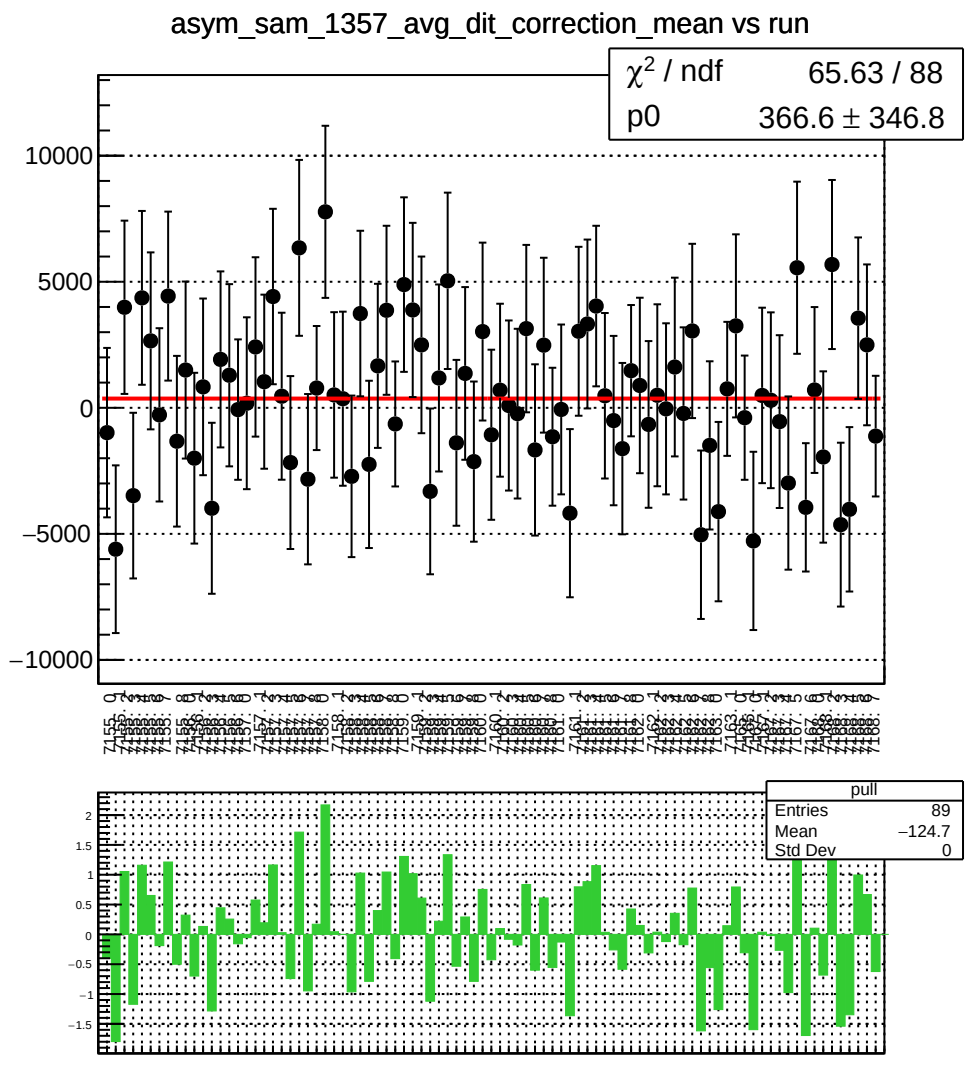

pull1D
Entries 89
Mean 0.01975
Std Dev 0.8543
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

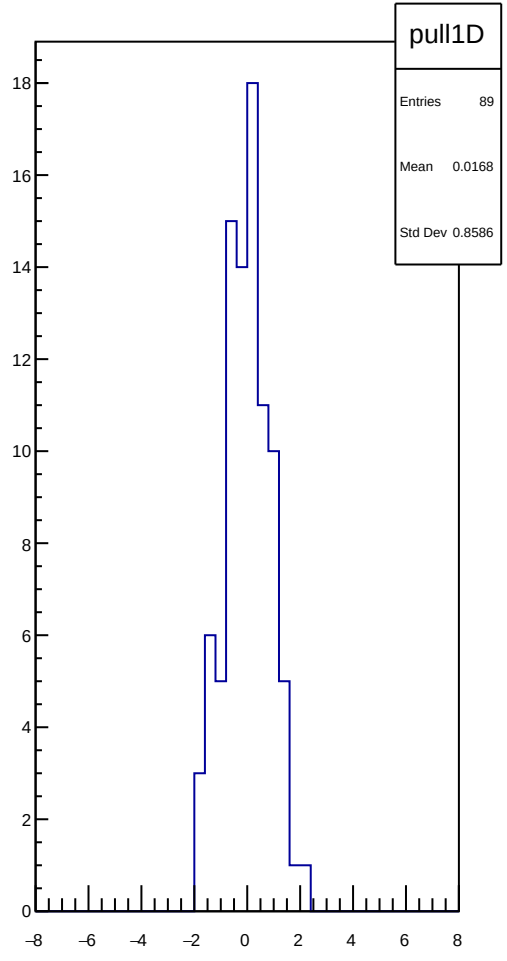

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2496 / 88
p0 321.4 ± 0.2446
370
360
350
340
330
320
310
300
290

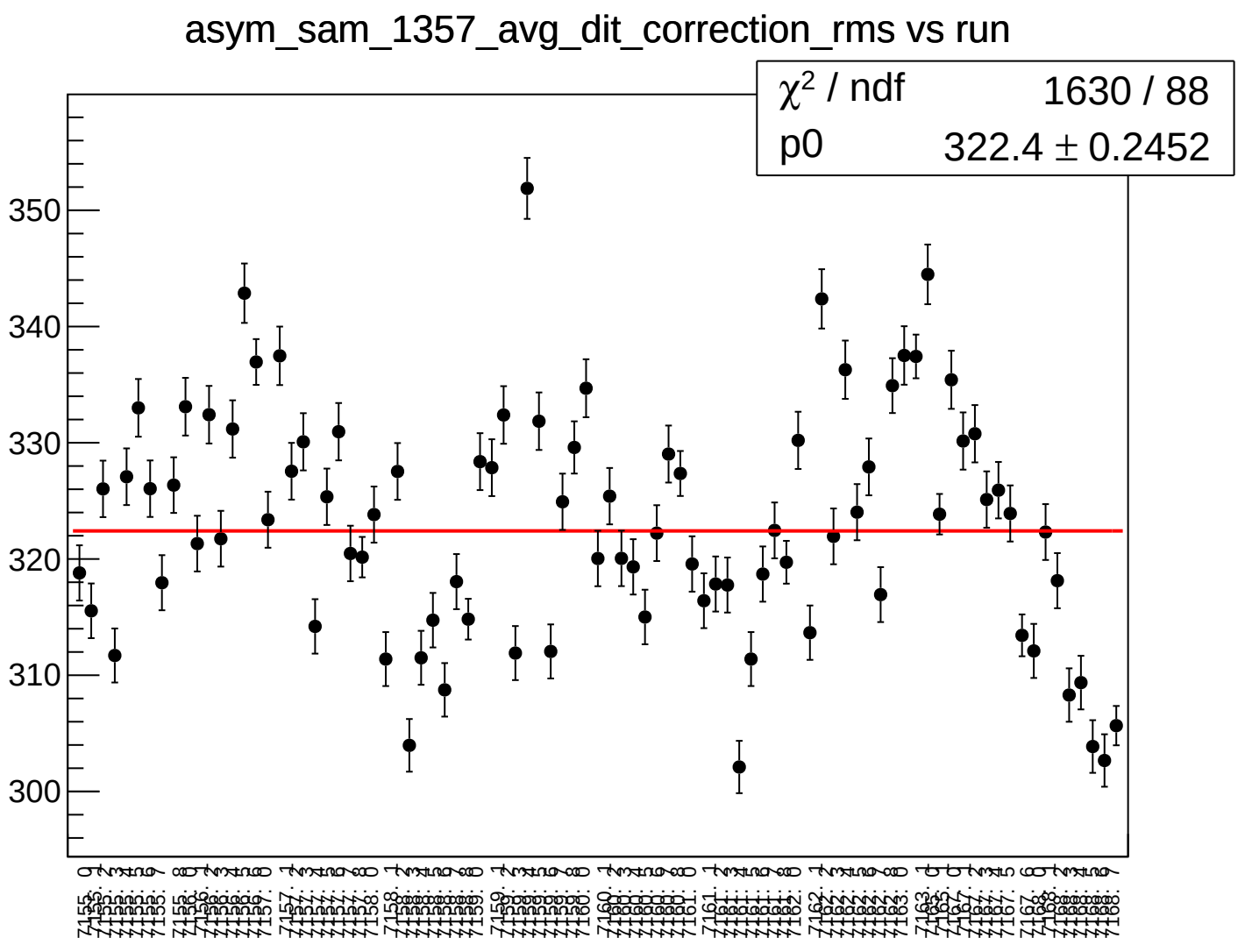

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 96.48 / 88
p0 −133.5 ± 54.24
2000
1000
0
−1000
−2000
−3000
pull
Entries 89
Mean −94.06
Std Dev 0
2
1
0
−1
−2
−3

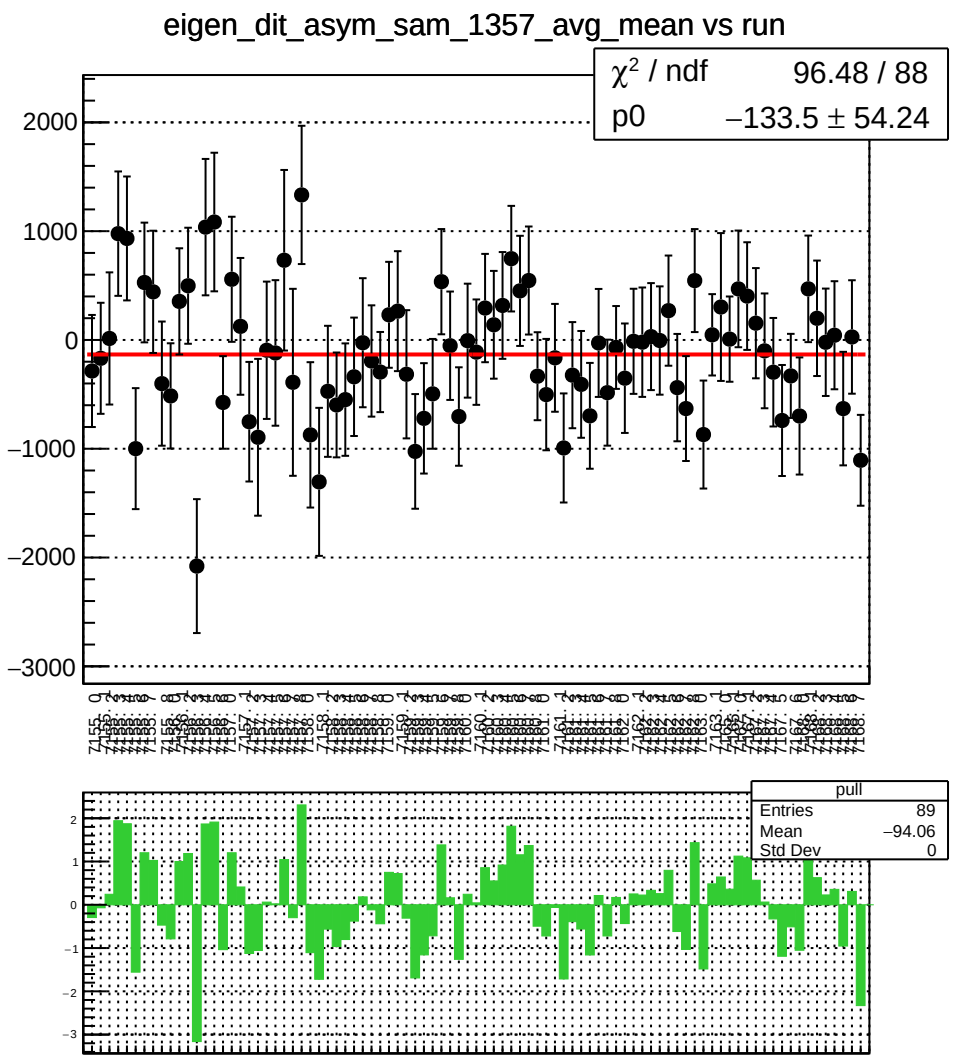

pull1D
Entries 89
Mean 0.0155
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

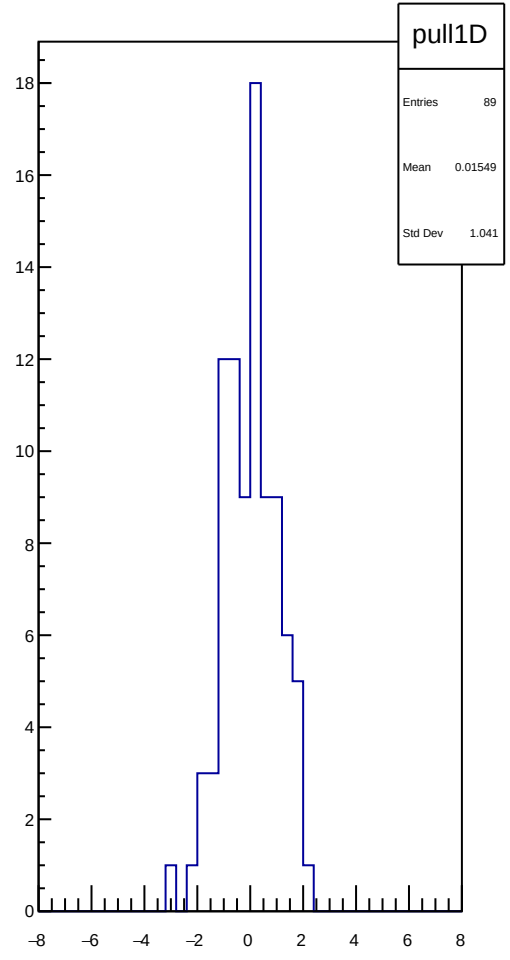

dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.332e+04 / 88
p0 50.1 ± 0.03835
85
80
75
70
65
60
55
50
45

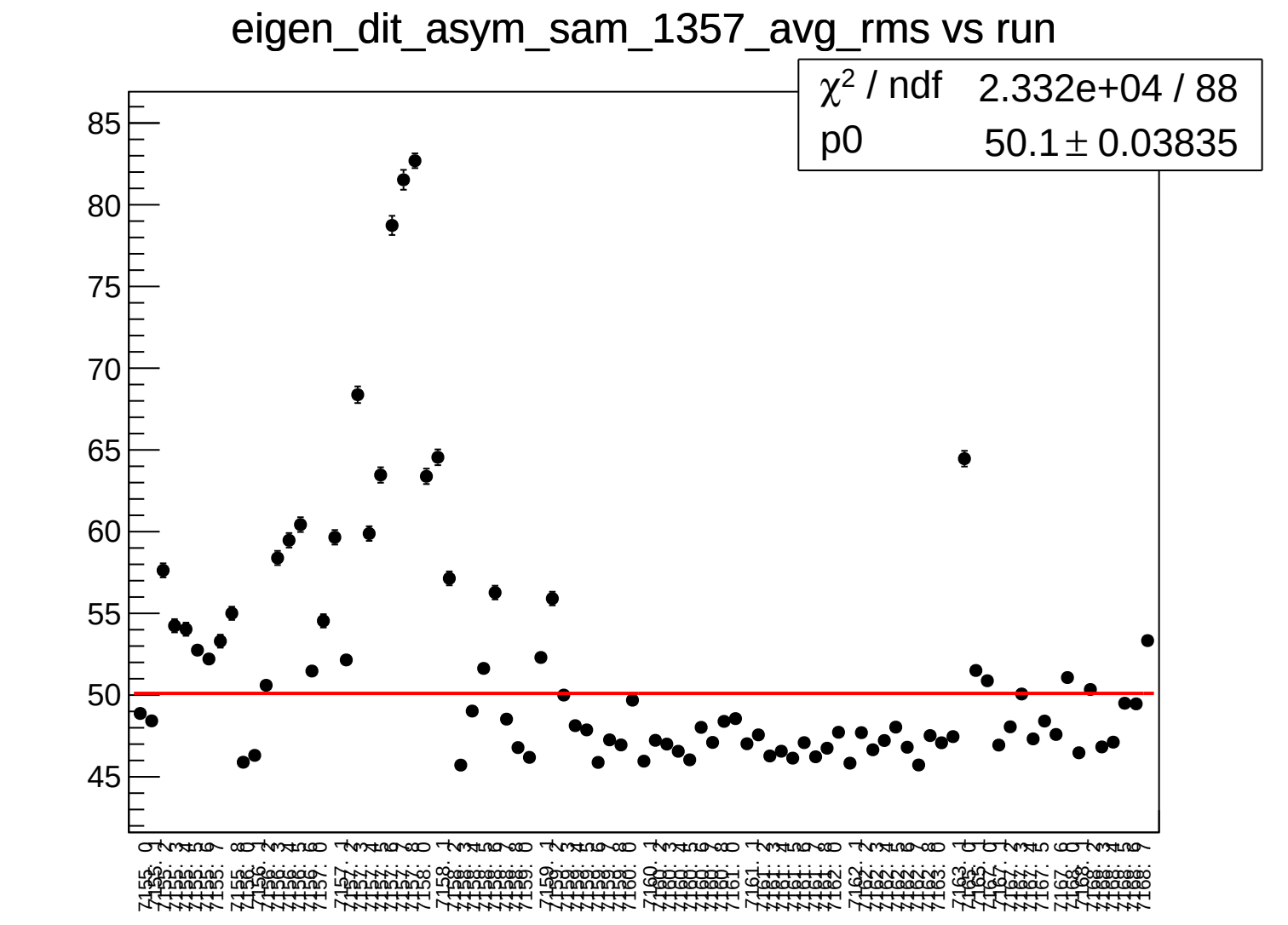

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 65.63 / 88
p0 366.6 ± 346.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −124.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

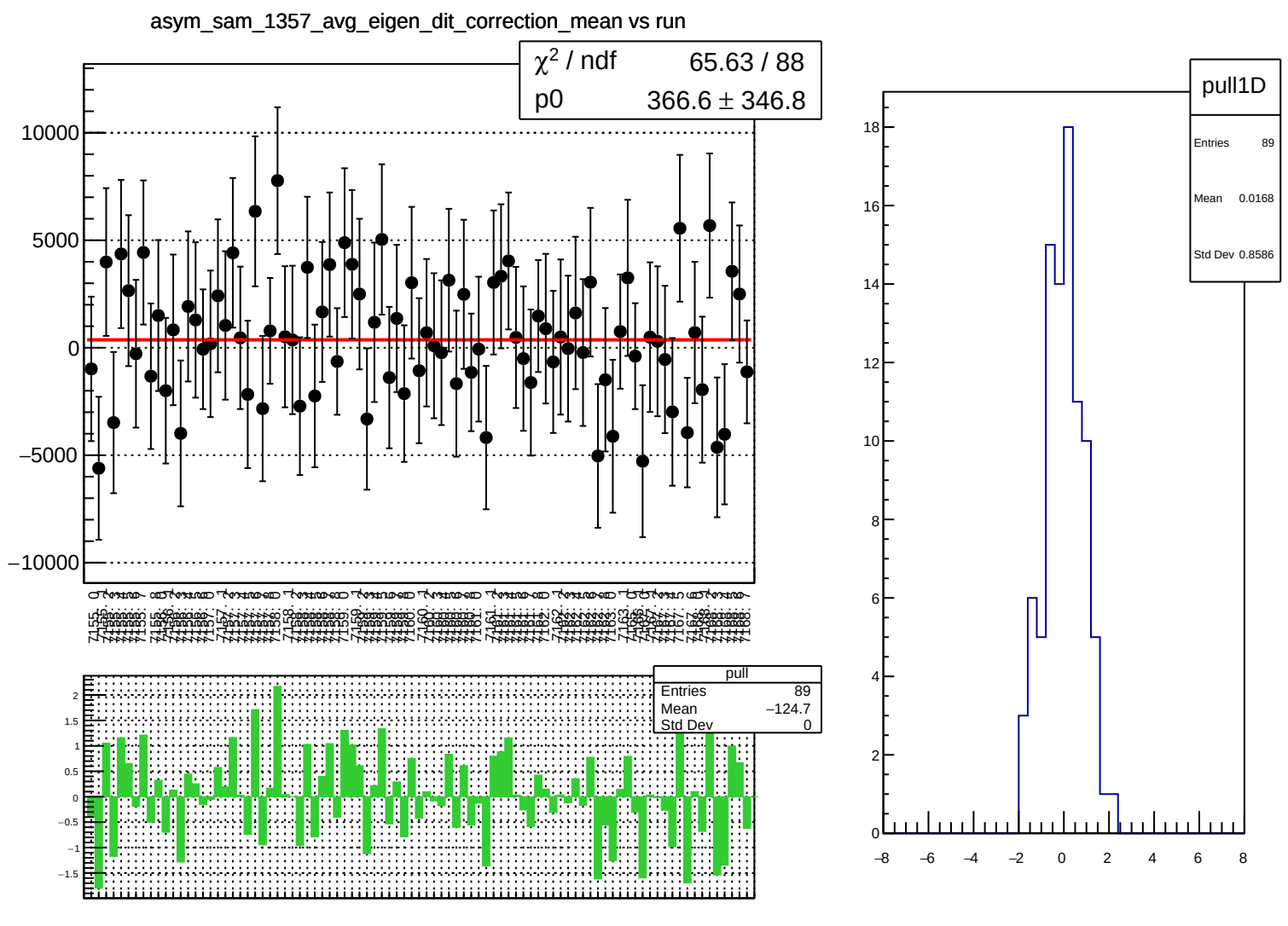

pull1D
Entries 89
Mean 0.0168
Std Dev 0.8586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

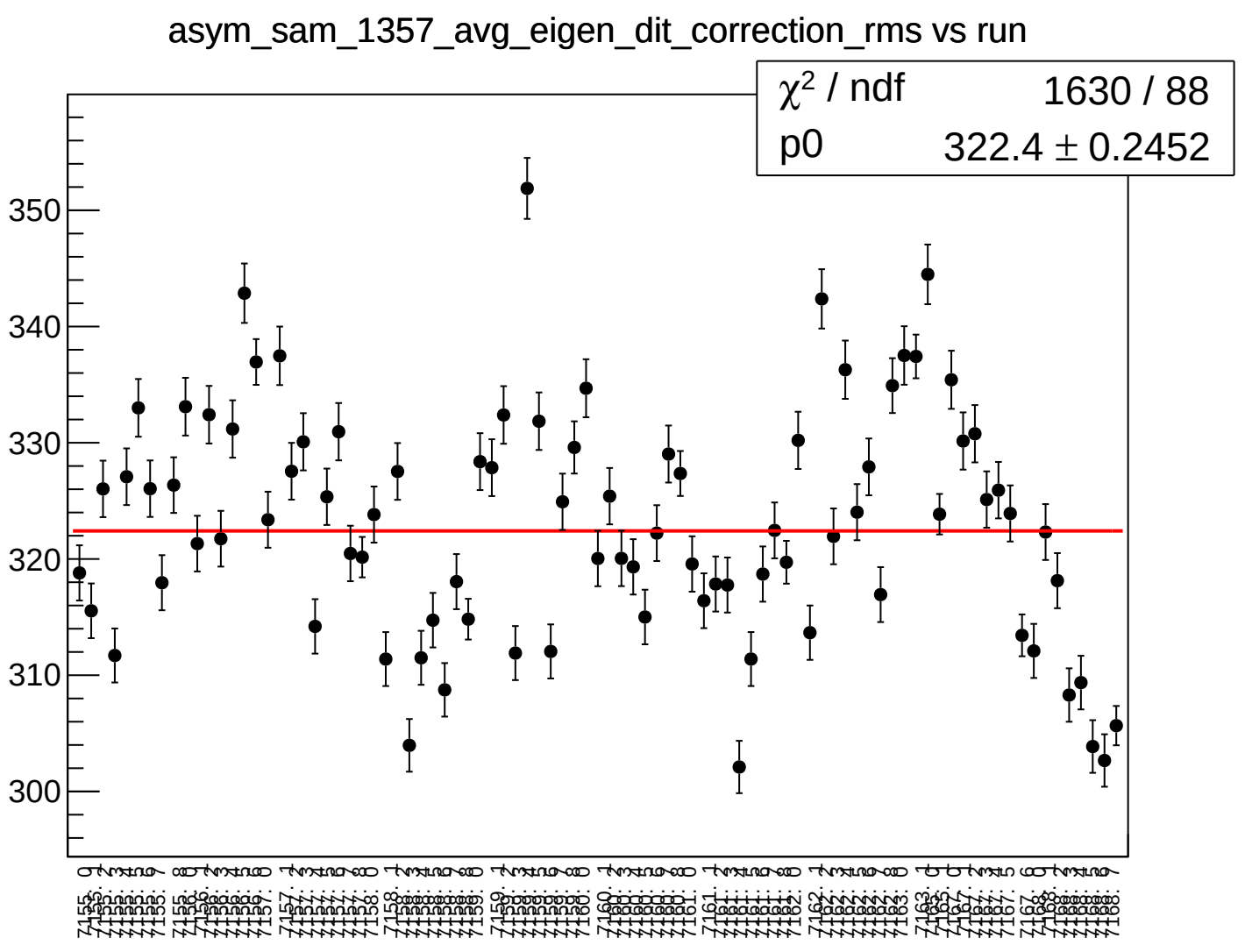

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 1630 / 88
p0 322.4 ± 0.2452
350
340
330
320
310
300

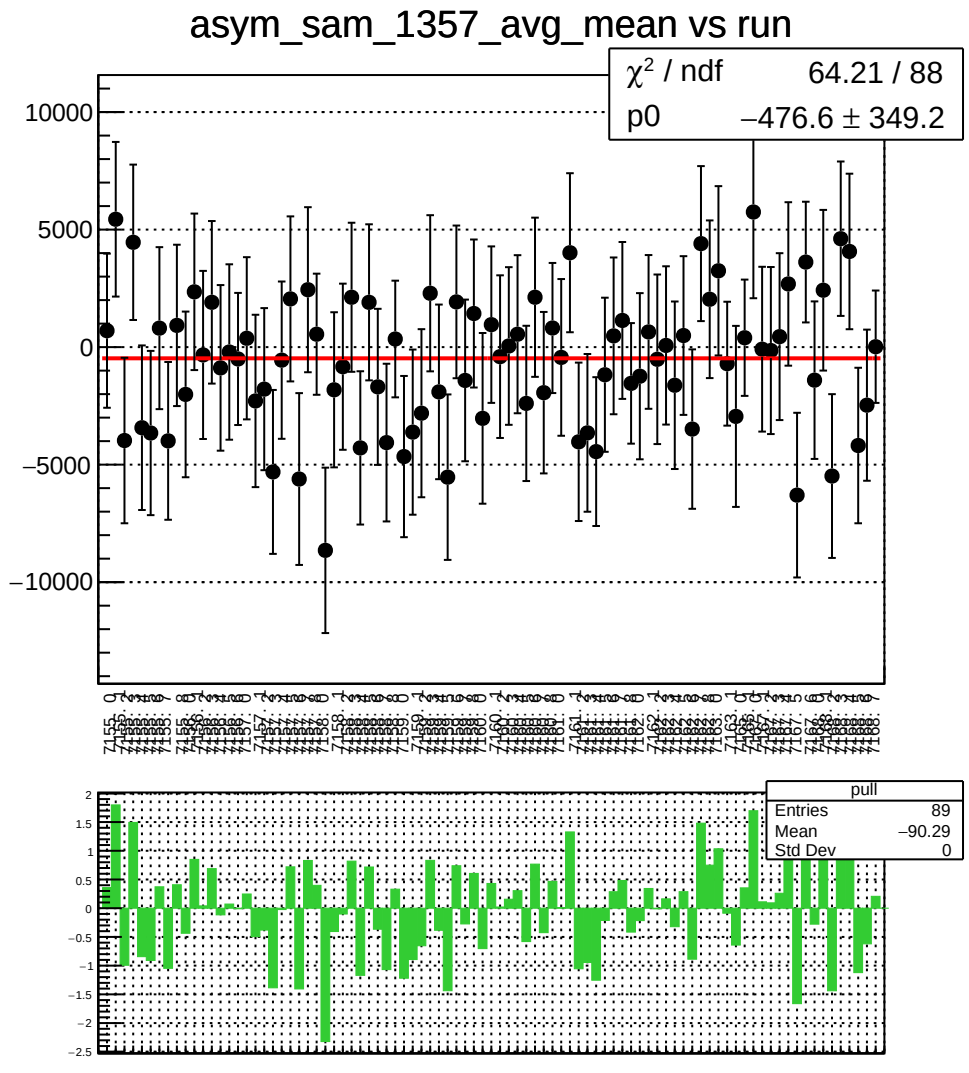

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 96.48 / 88
p0 −133.5 ± 54.24
pull
Entries 89
Mean −94.06
Std Dev 0

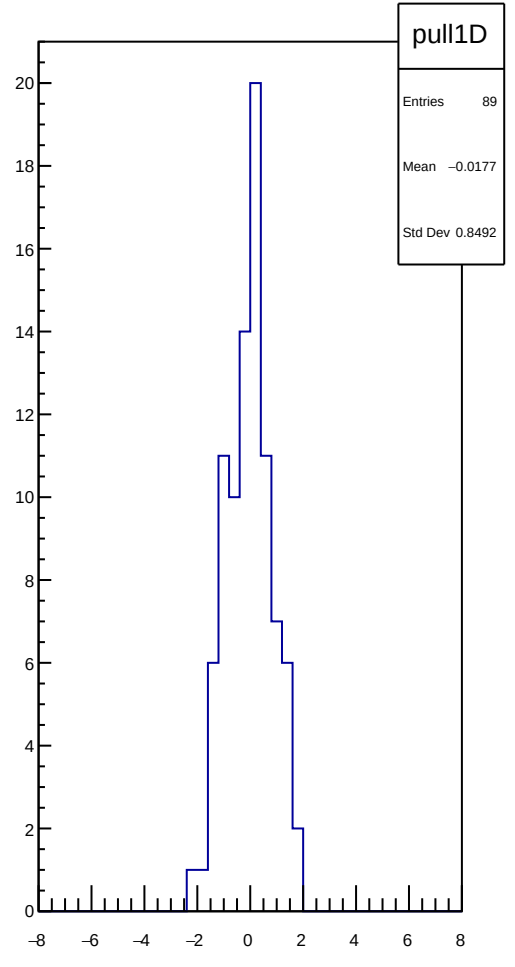

pull1D
Entries 89
Mean 0.01549
Std Dev 1.041

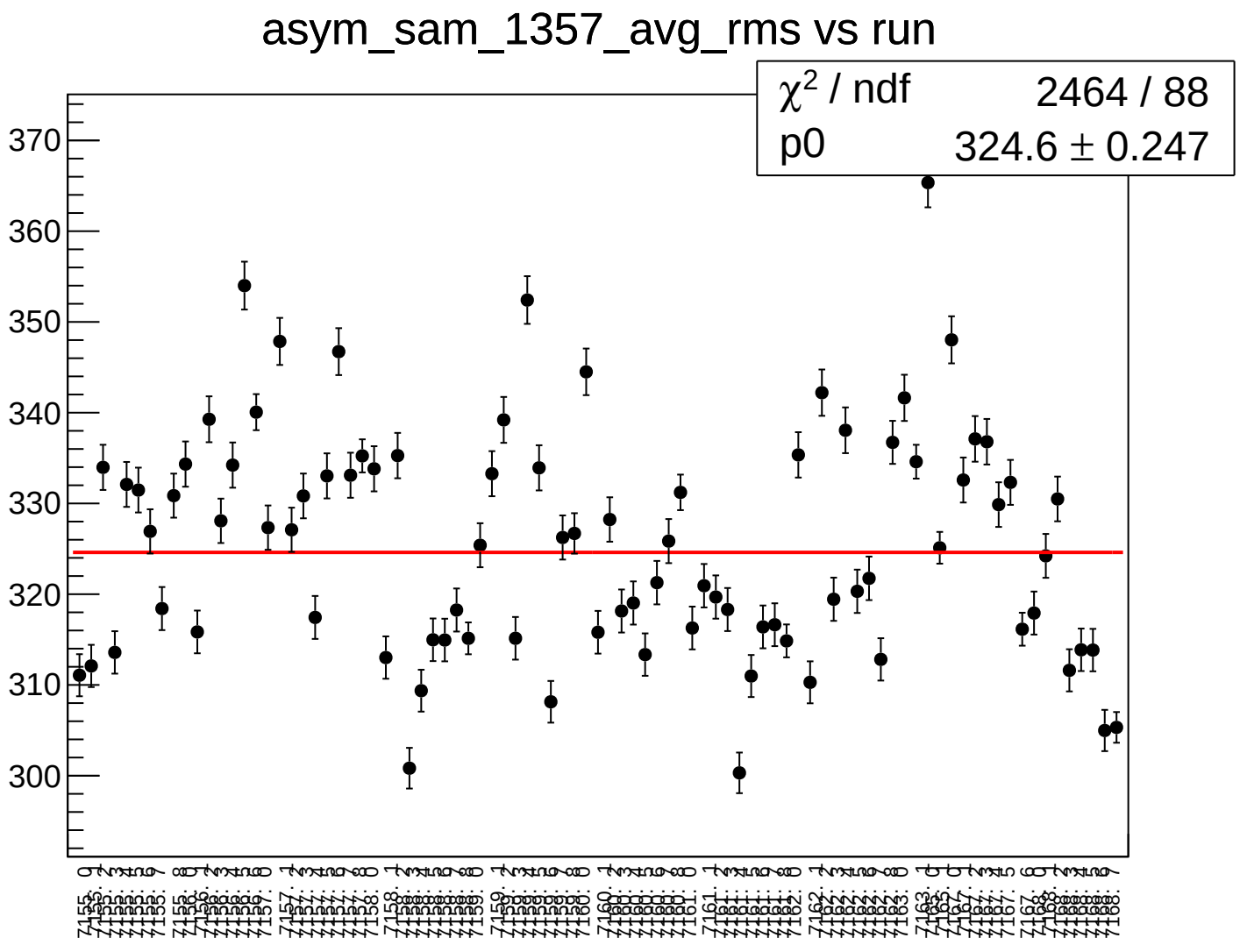

eigen_dit_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.332e+04 / 88
p0 50.1 ± 0.03835
85
80
75
70
65
60
55
50
45

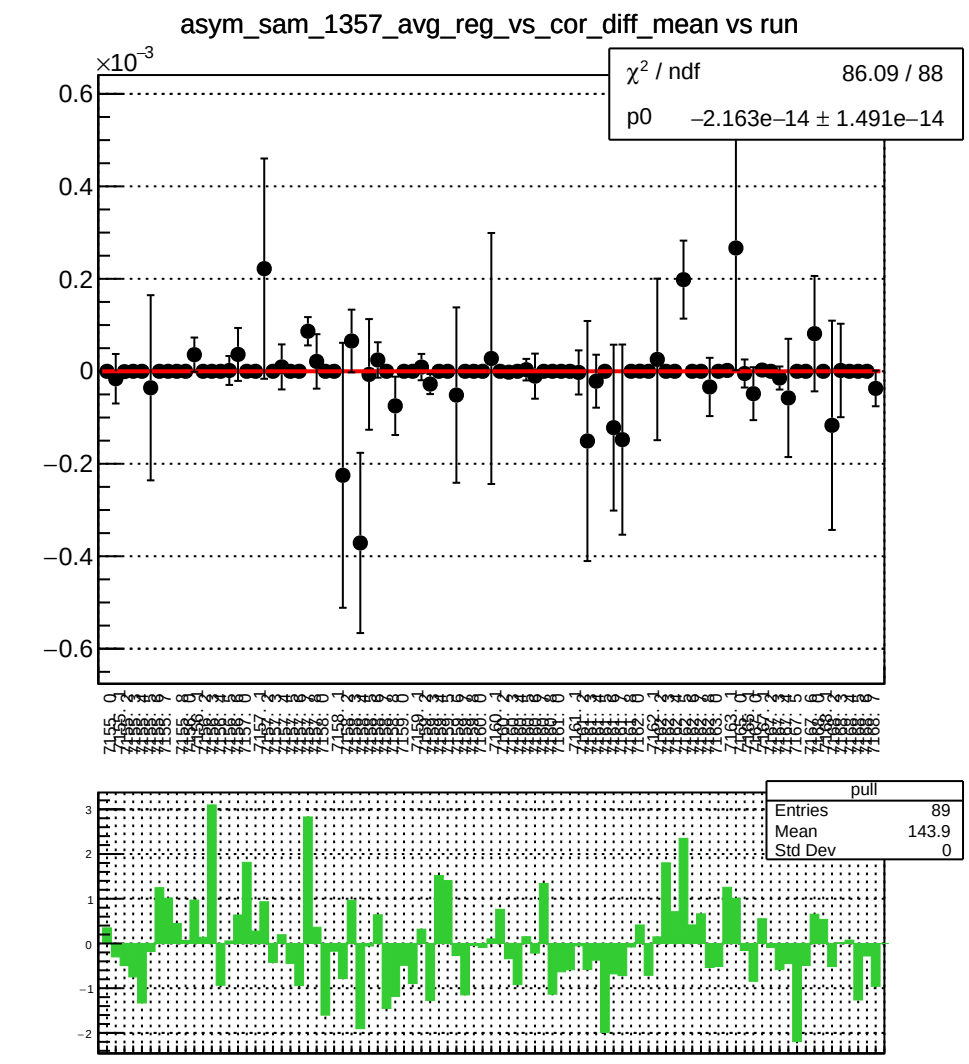

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 65.63 / 88
p0 366.6 ± 346.8
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −124.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean 0.0168
Std Dev 0.8586
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

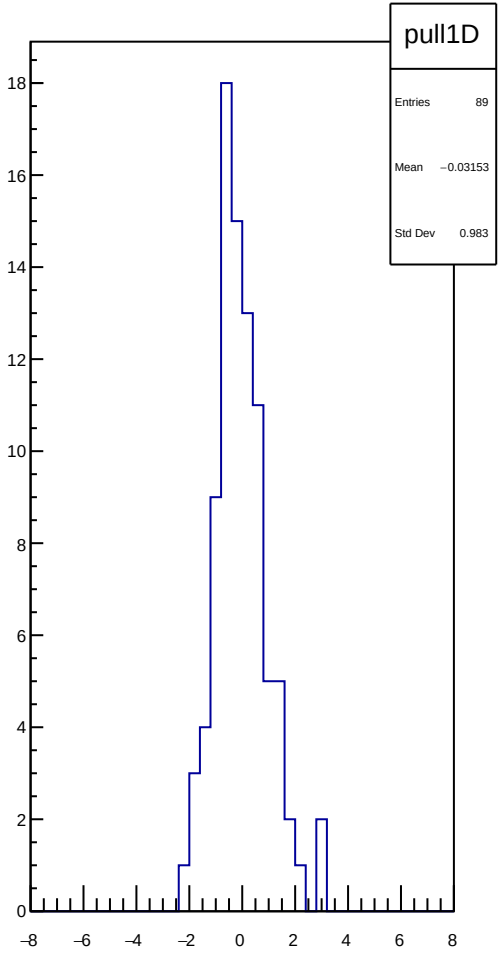

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 1630 / 88
p0 322.4 ± 0.2452
350
340
330
320
310
300

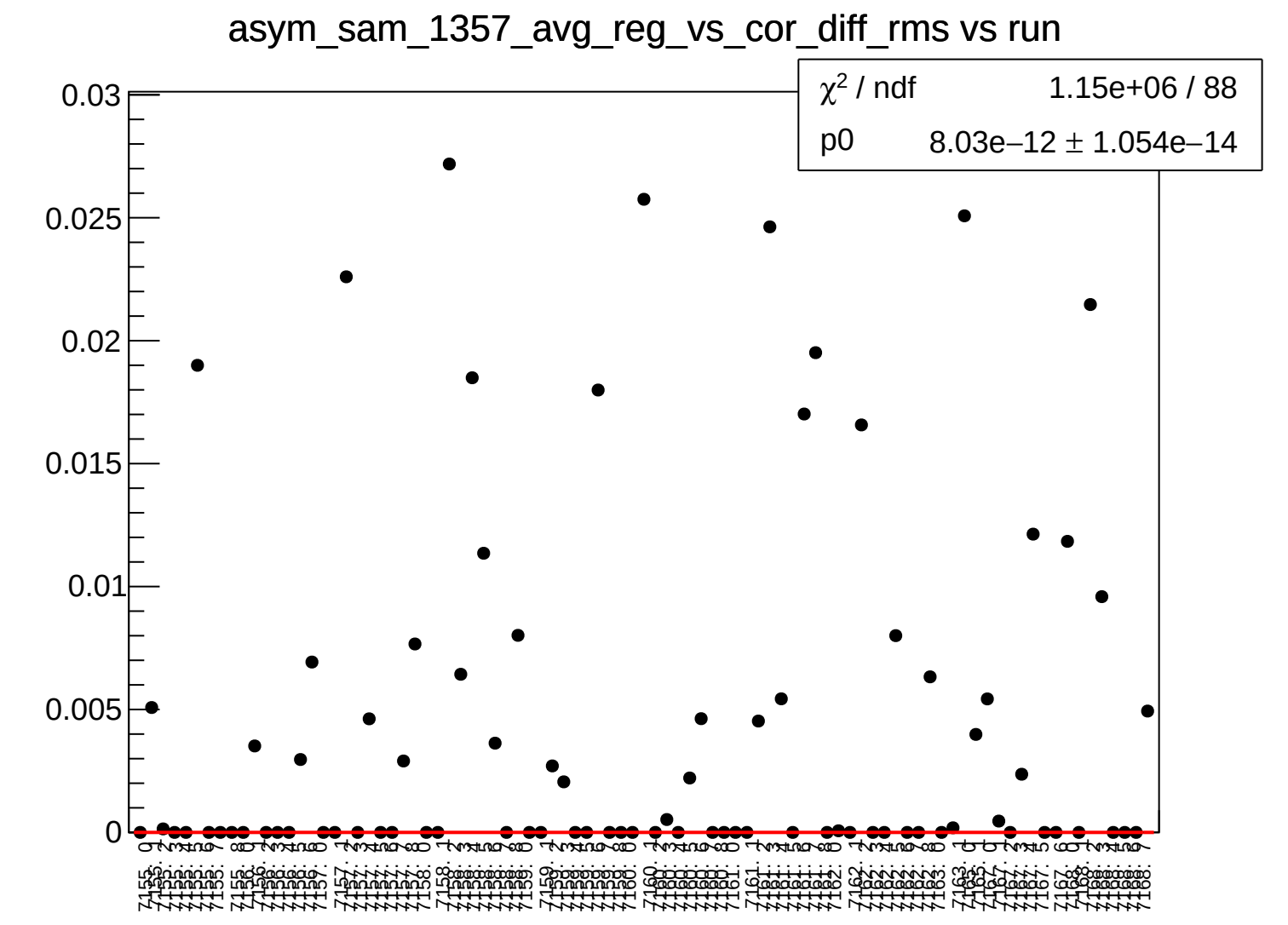

asym_sam_1357_avg_mean vs run
χ² / ndf 64.21 / 88
p0 −476.6 ± 349.2
10000
5000
0
−5000
−10000
pull
Entries 89
Mean −90.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

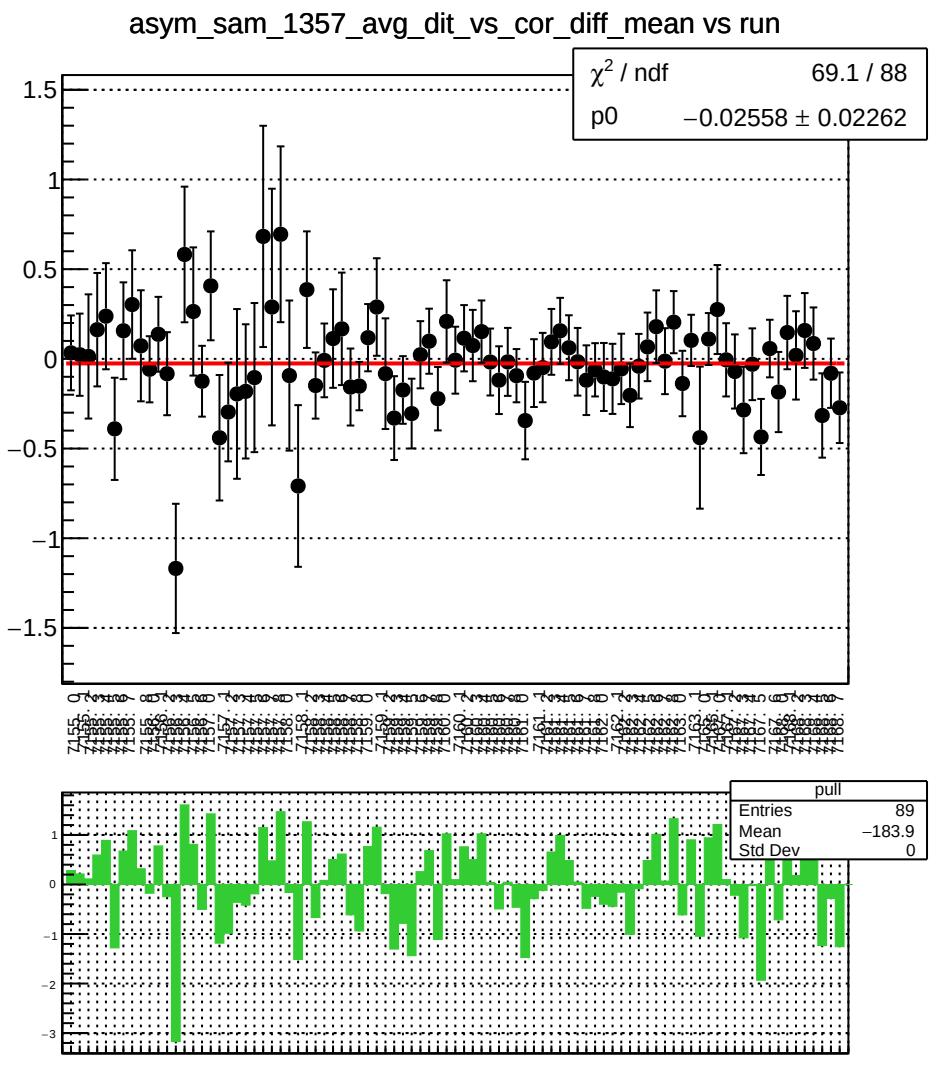

pull1D
Entries 89
Mean −0.0177
Std Dev 0.8492
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

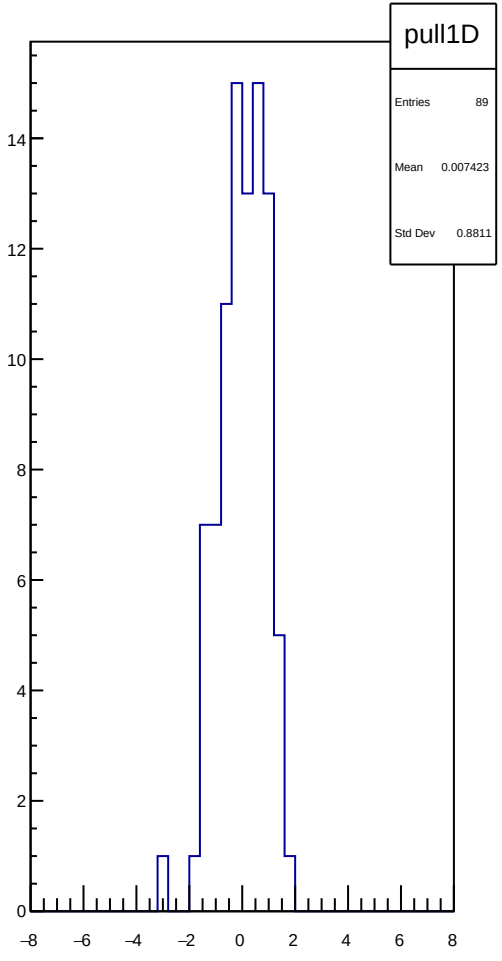

asym_sam_1357_avg_rms vs run
χ² / ndf 2464 / 88
p0 324.6 ± 0.247
370
360
350
340
330
320
310
300

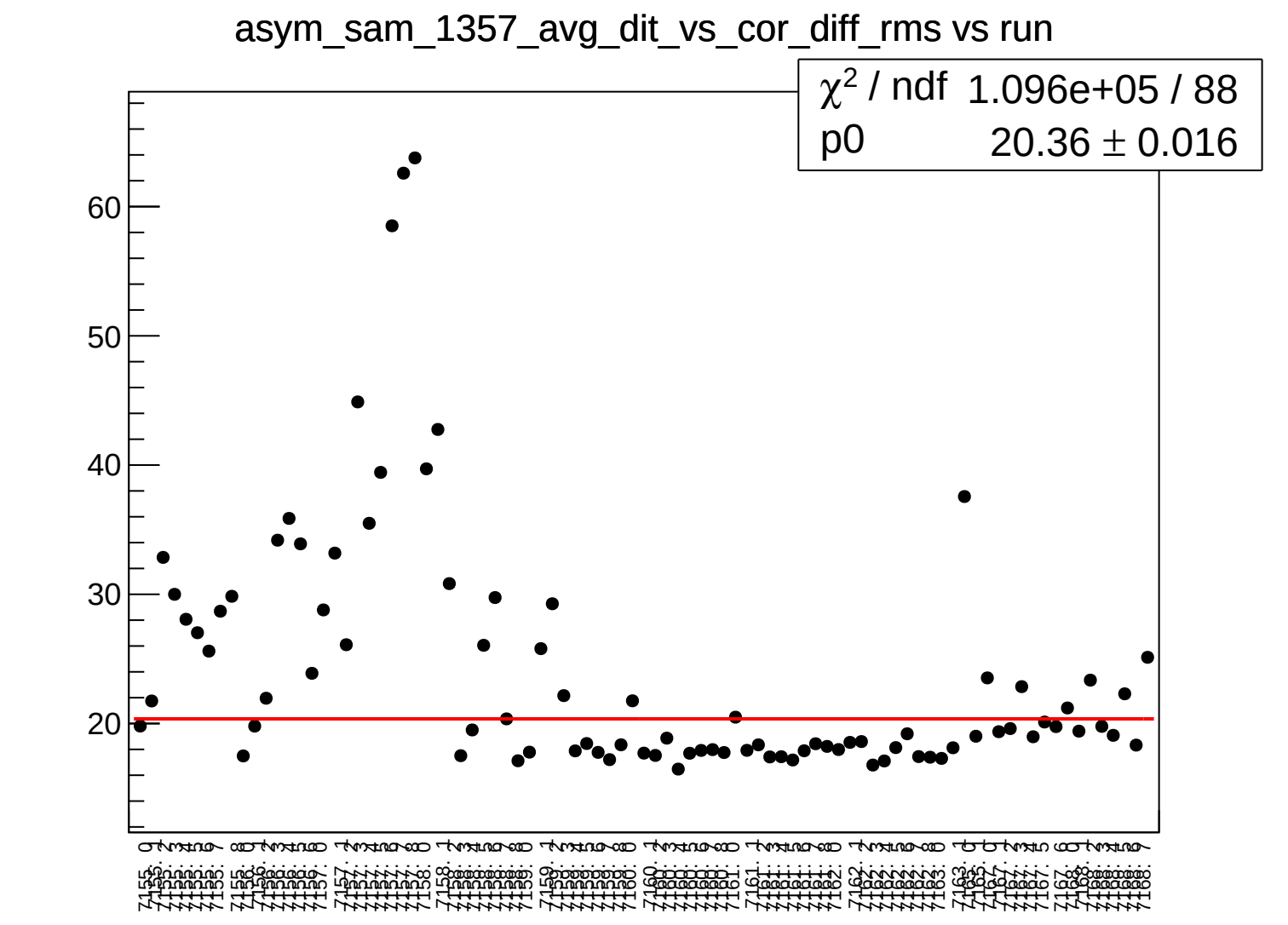

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 86.09 / 88
p0 −2.163e−14 ± 1.491e−14
pull
Entries 89
Mean 143.9
Std Dev 0

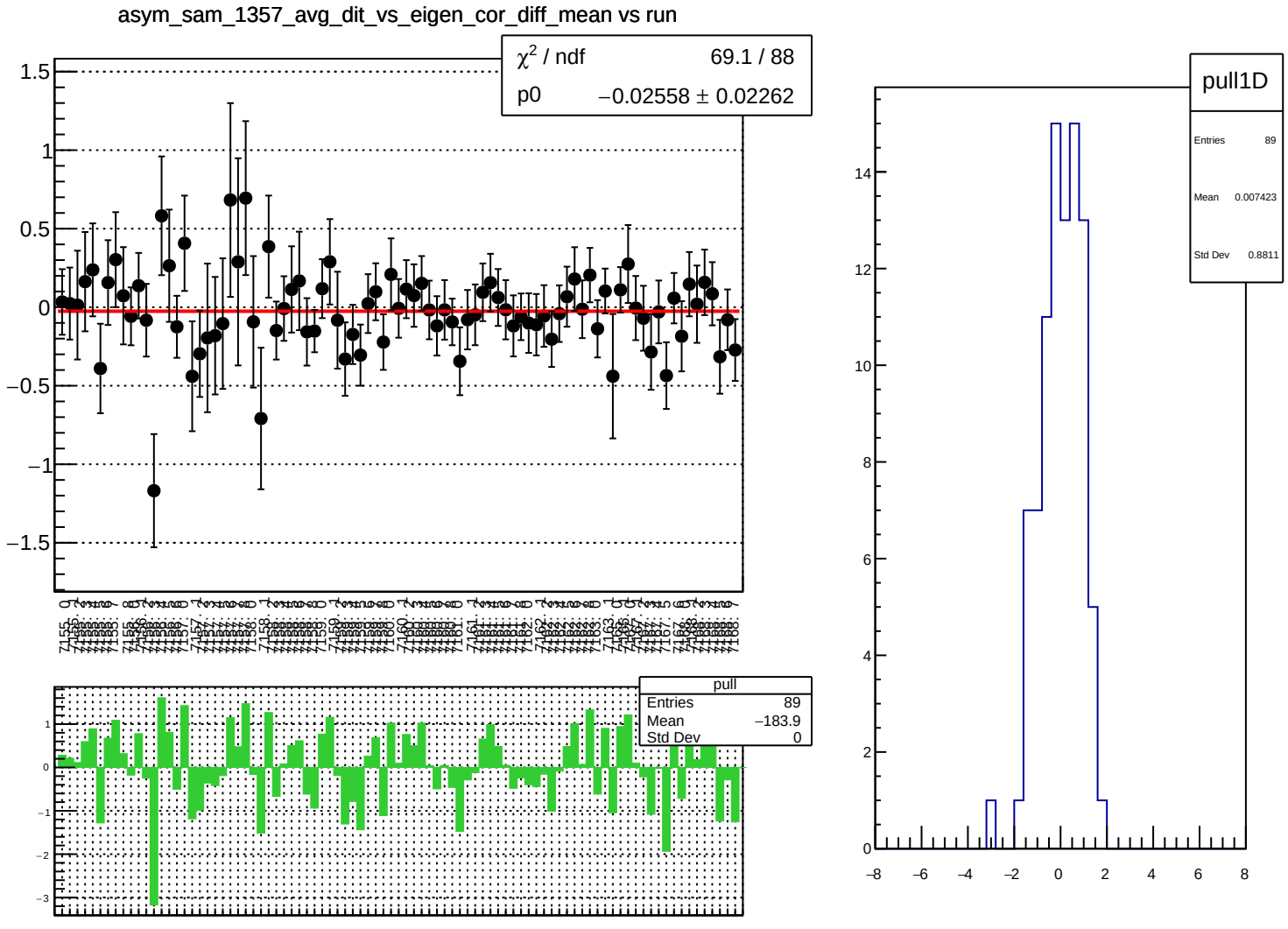

pull1D
Entries 89
Mean −0.03153
Std Dev 0.983

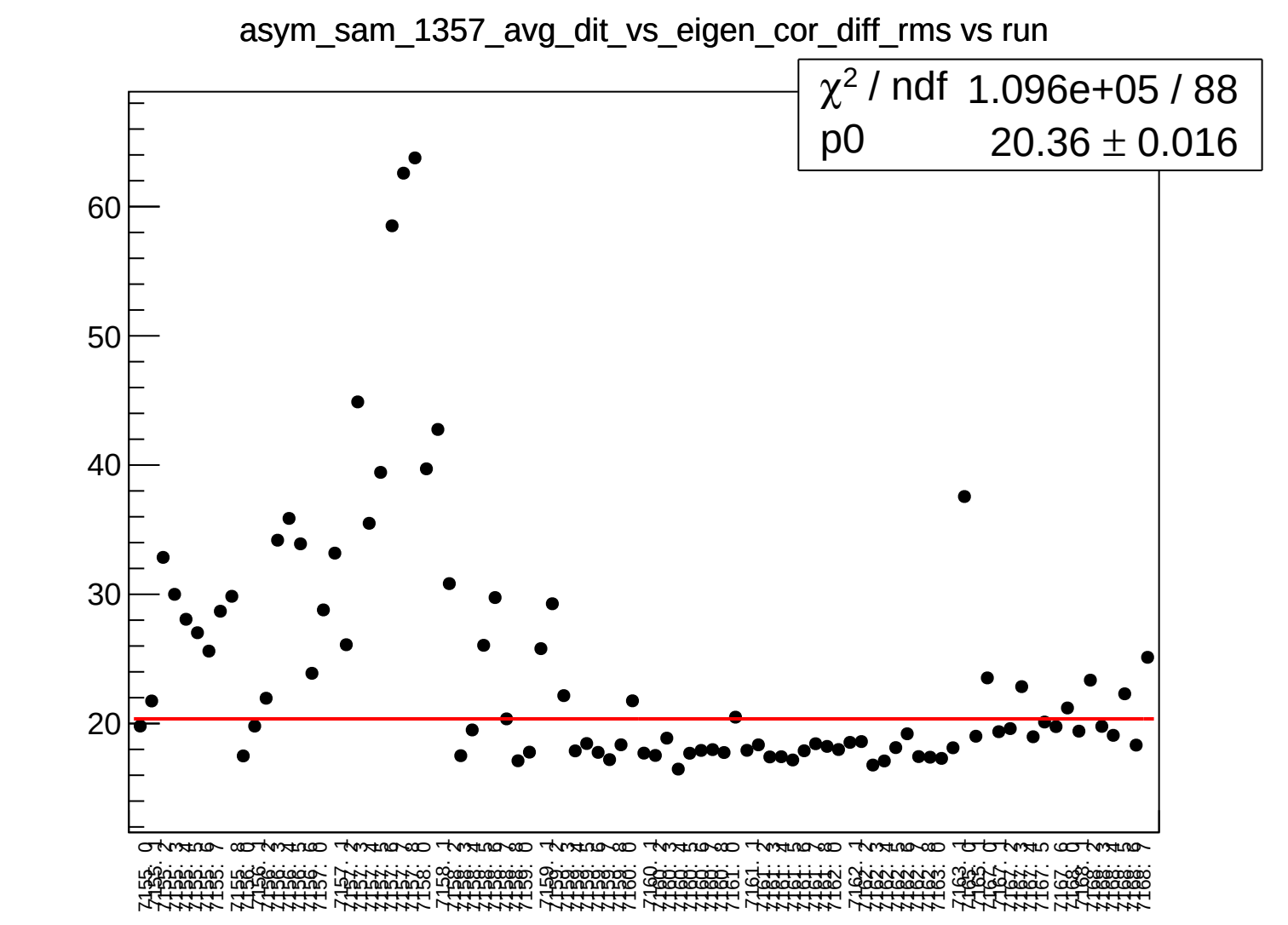

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.15e+06 / 88
p0 8.03e−12 ± 1.054e−14
0.03
0.025
0.02
0.015
0.01
0.005
0

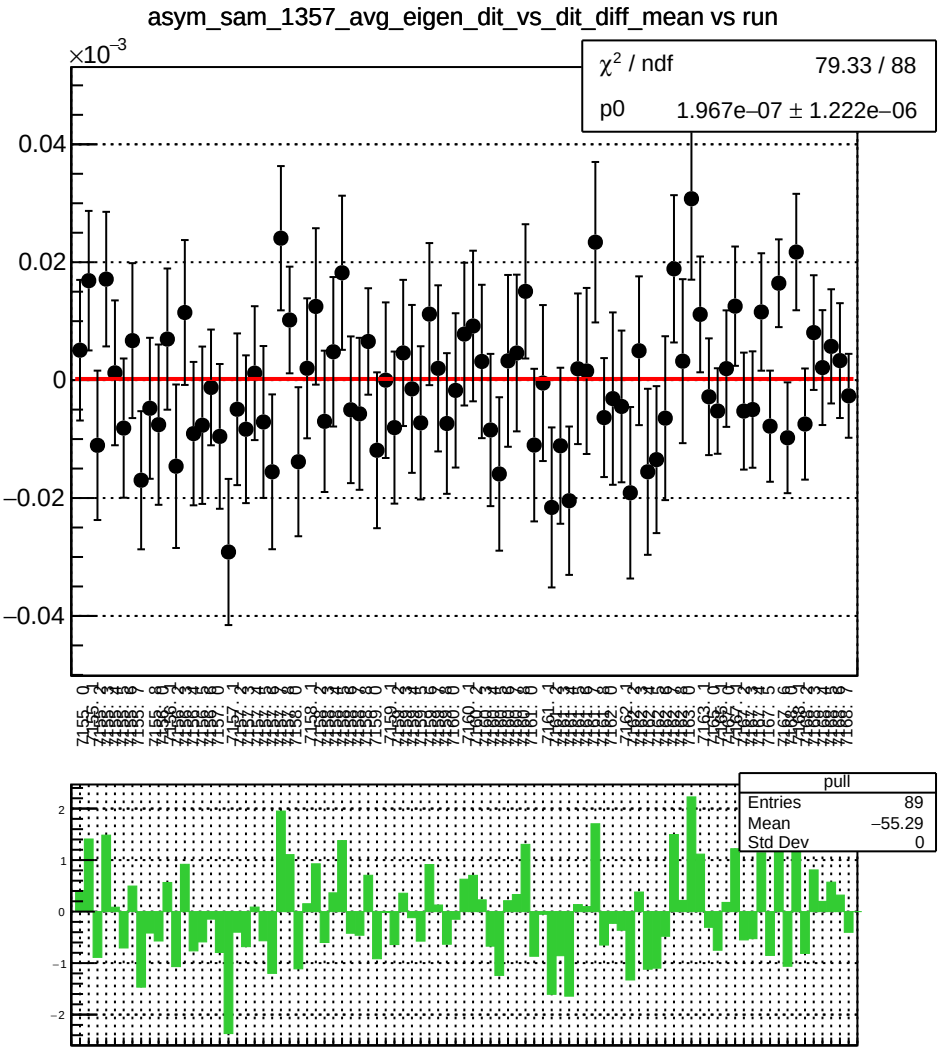

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 69.1 / 88
p0 −0.02558 ± 0.02262
pull
Entries 89
Mean −183.9
Std Dev 0

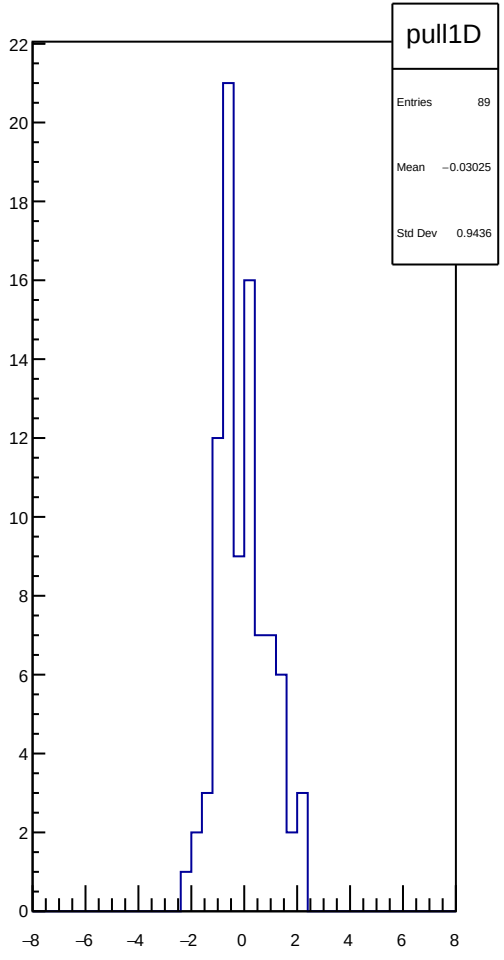

pull1D
Entries 89
Mean 0.007423
Std Dev 0.8811

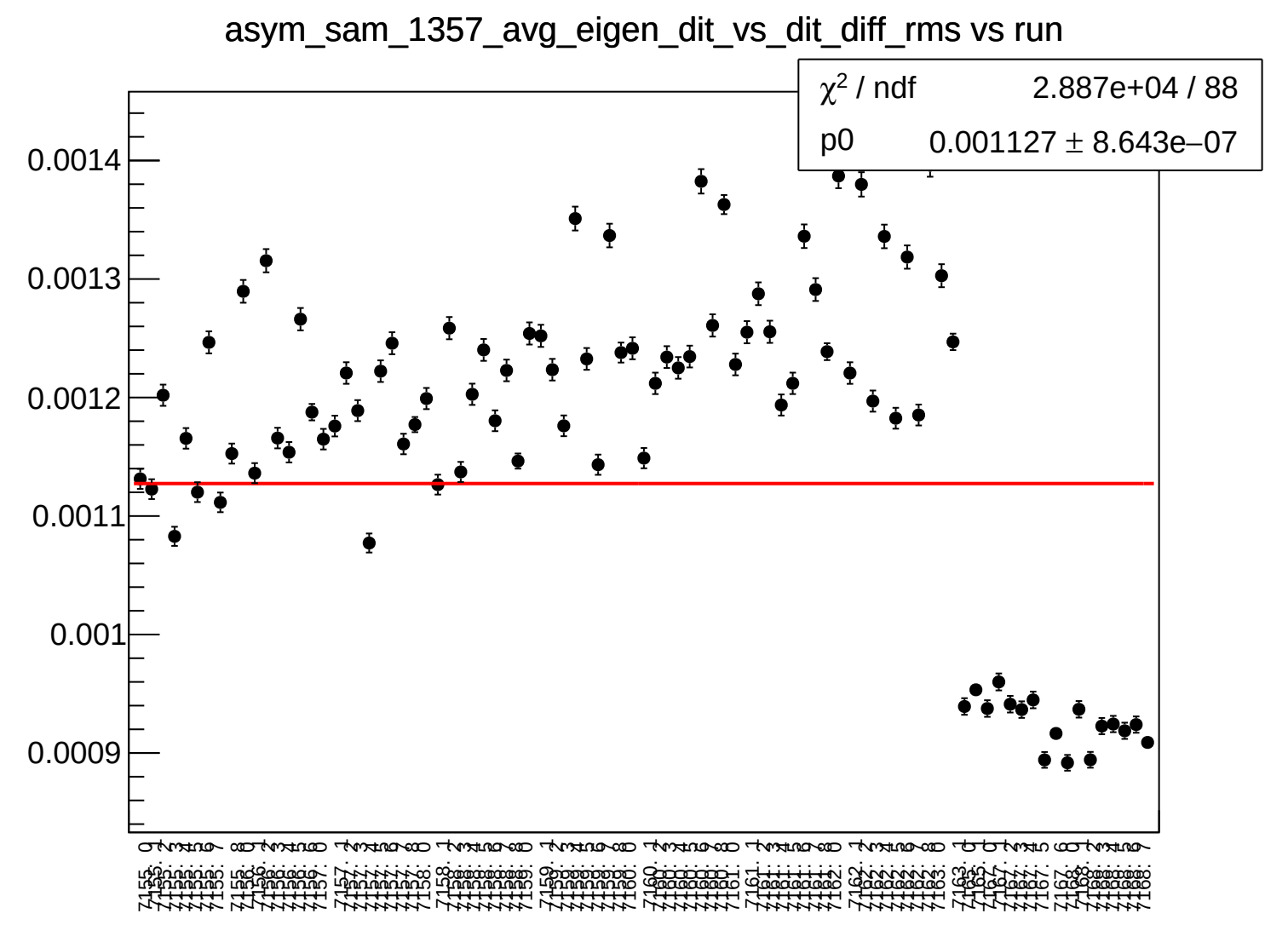

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.096e+05 / 88
p0 20.36 ± 0.016
60
50
40
30
20

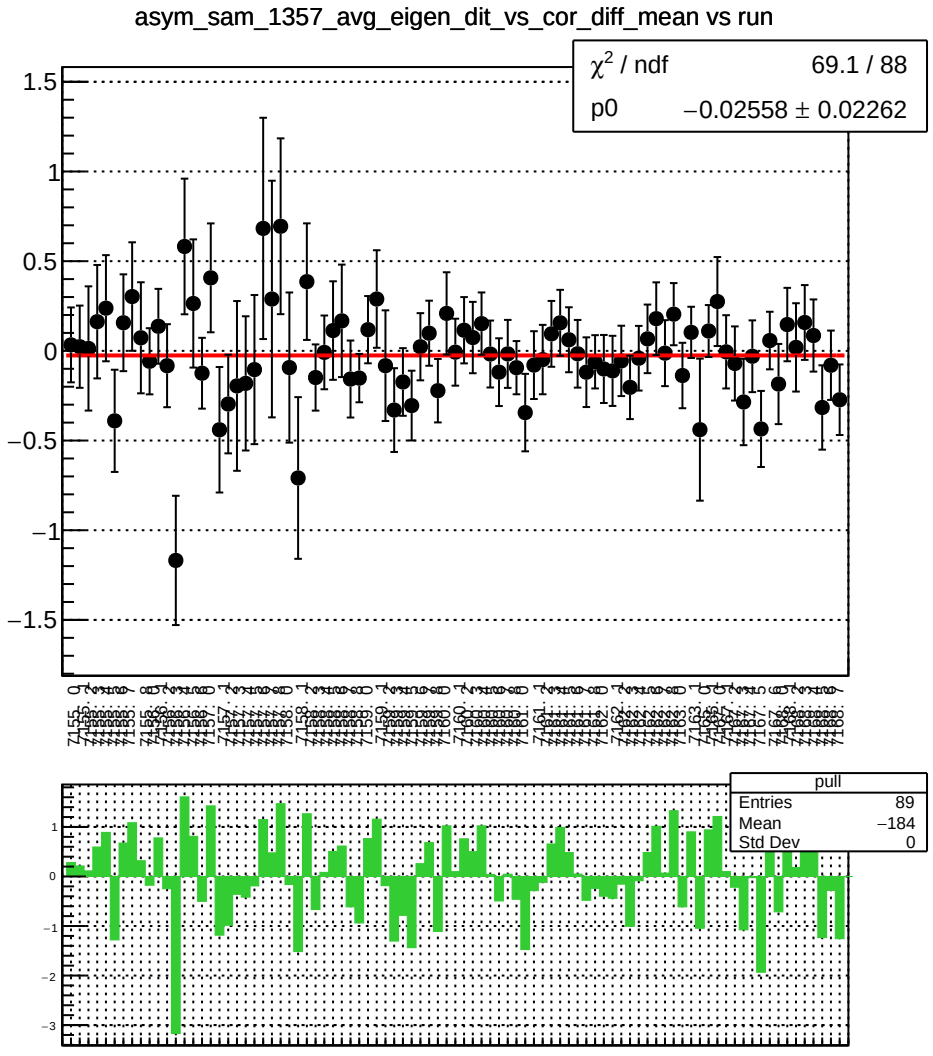

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.1 / 88
p0 −0.02558 ± 0.02262
pull
Entries 89
Mean −183.9
Std Dev 0
pull1D
Entries 89
Mean 0.007423
Std Dev 0.8811

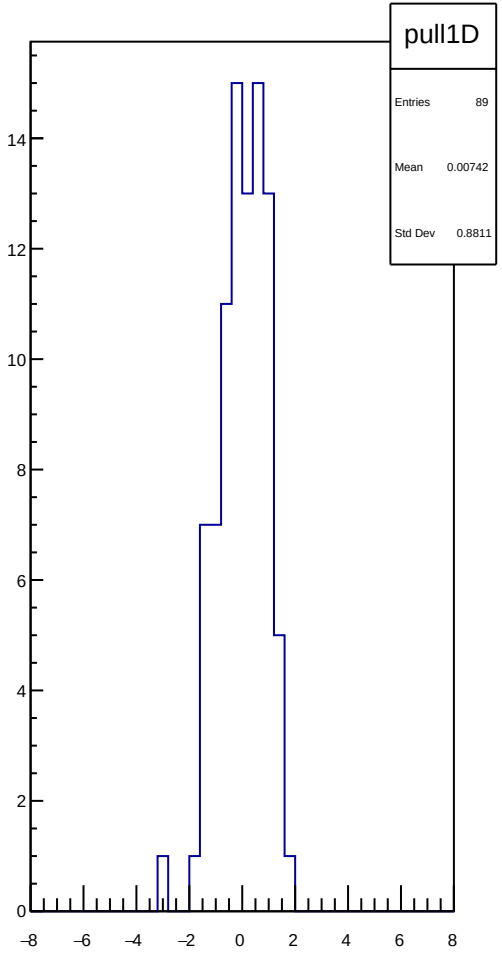

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.096e+05 / 88
p0 20.36 ± 0.016
60
50
40
30
20

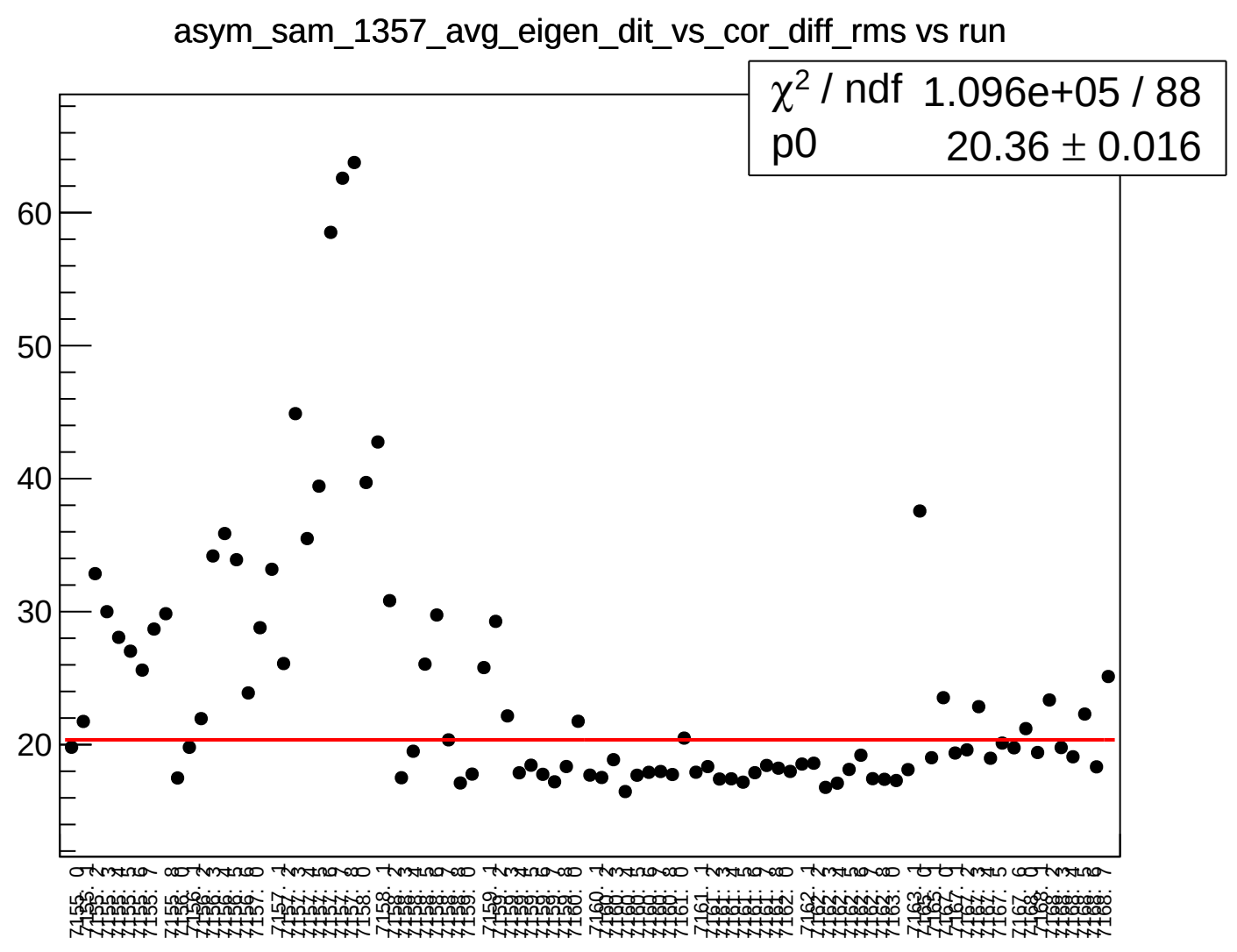

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.33 / 88
p0 1.967e−07 ± 1.222e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 89
Mean −55.29
Std Dev 0
2
1
0
−1
−2

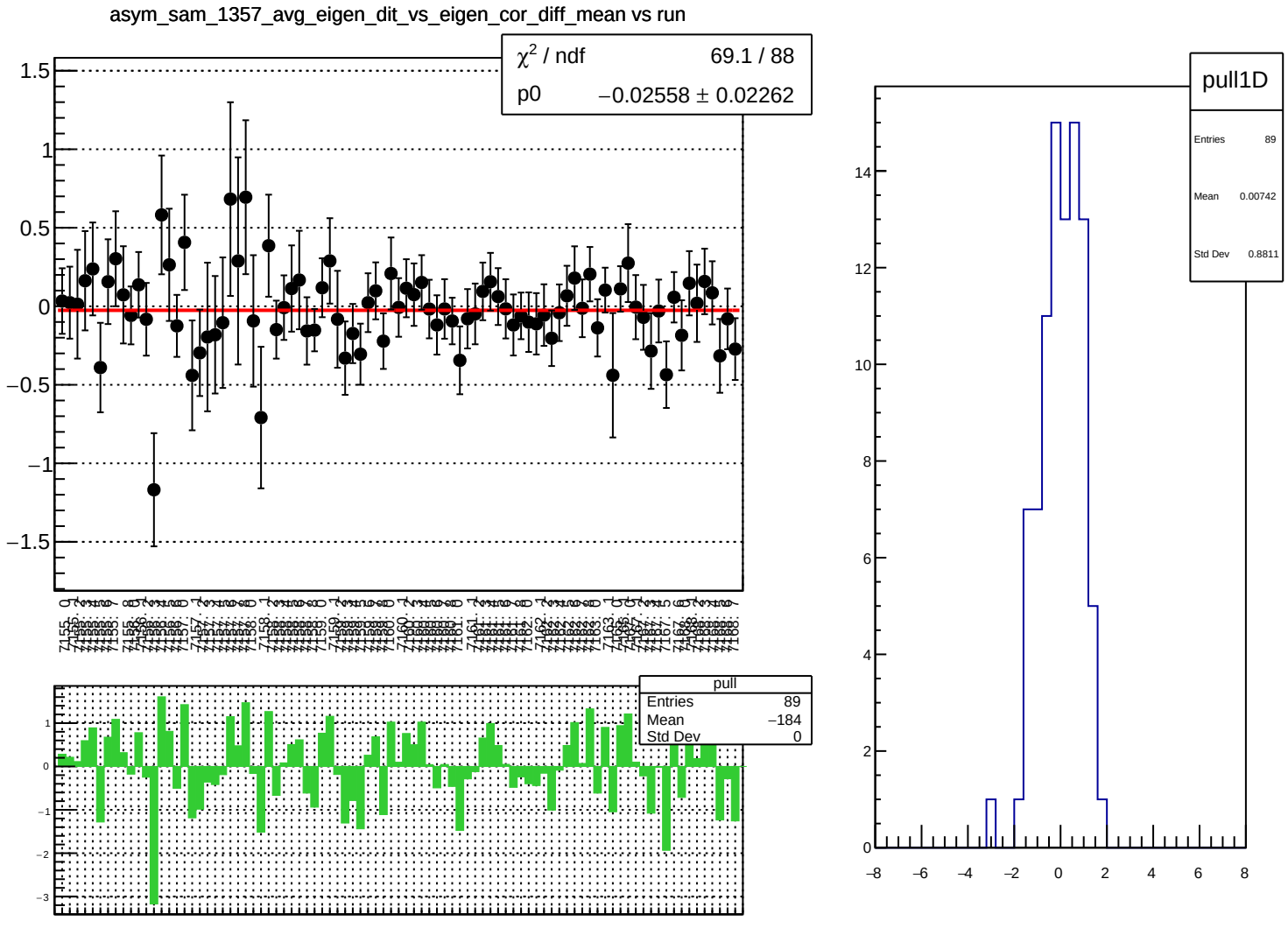

pull1D
Entries 89
Mean −0.03025
Std Dev 0.9436
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

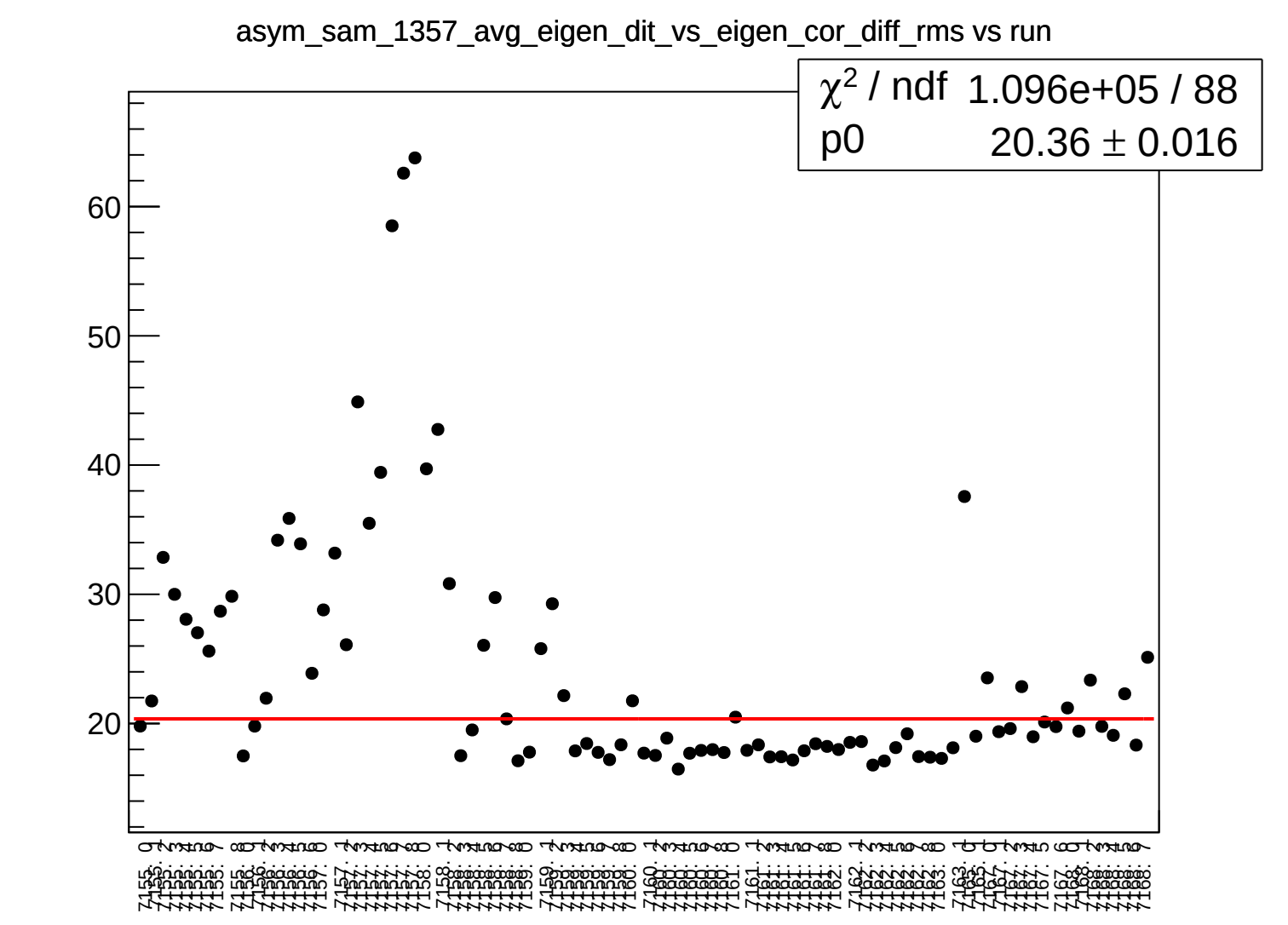

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.887e+04 / 88
p0 0.001127 ± 8.643e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009

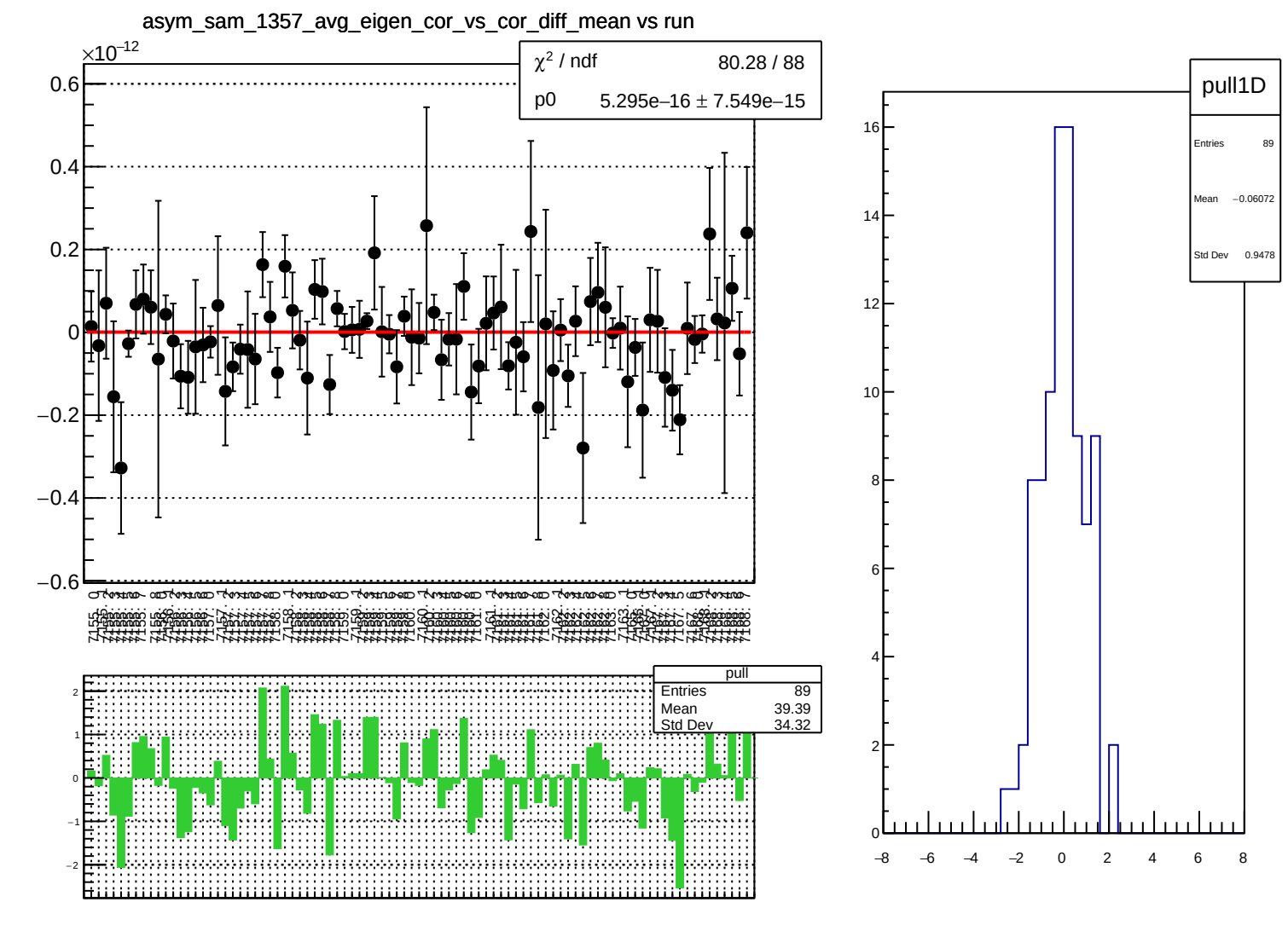

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 69.1 / 88
p0 −0.02558 ± 0.02262
pull
Entries 89
Mean −184
Std Dev 0

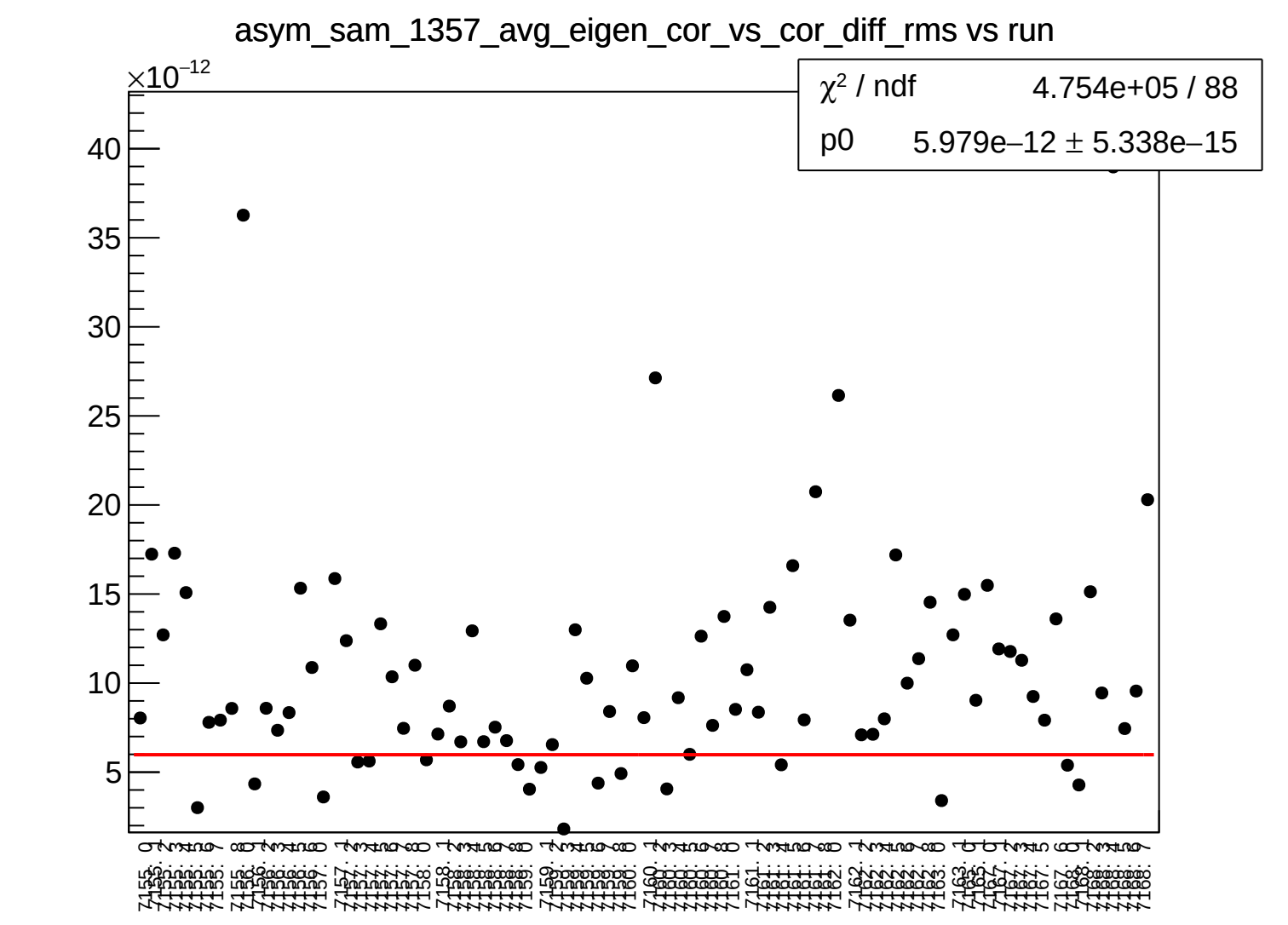

pull1D
Entries 89
Mean 0.00742
Std Dev 0.8811

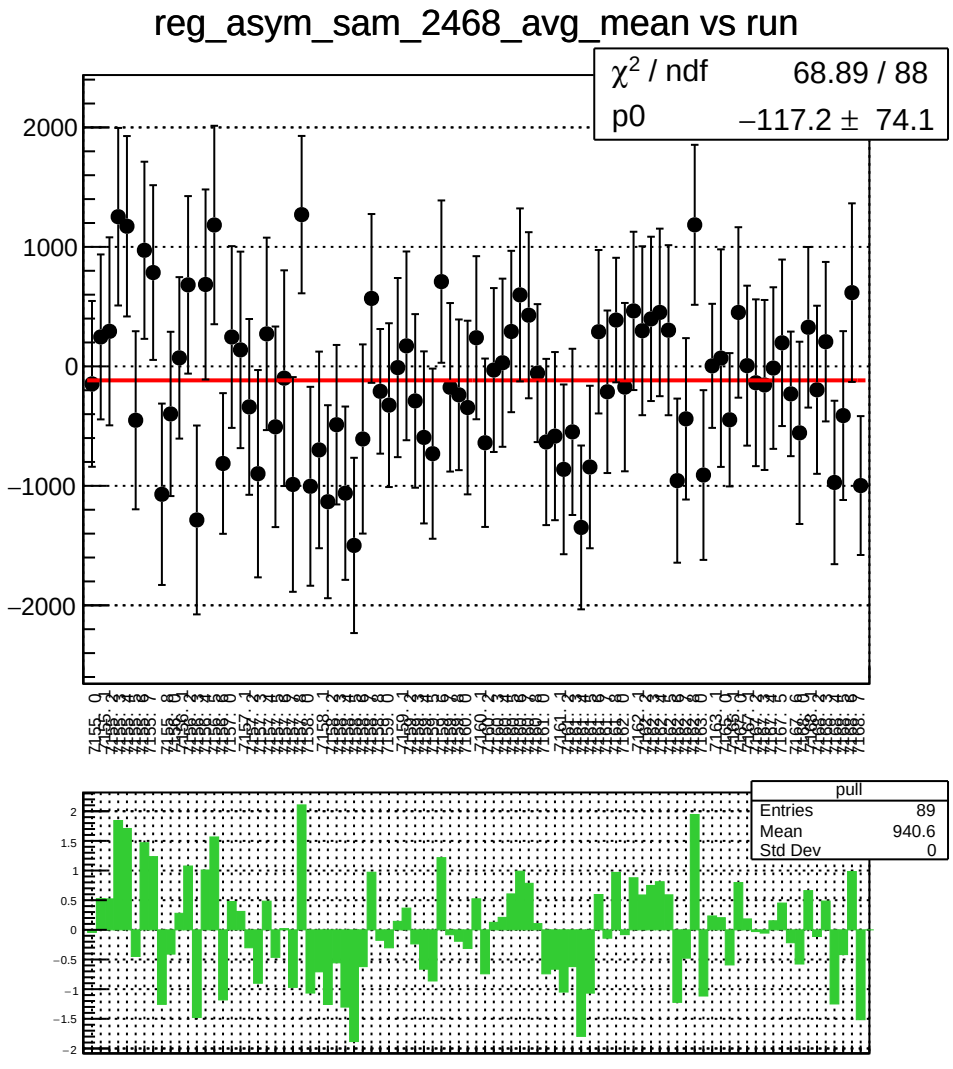

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.096e+05 / 88
p0 20.36 ± 0.016
60
50
40
30
20

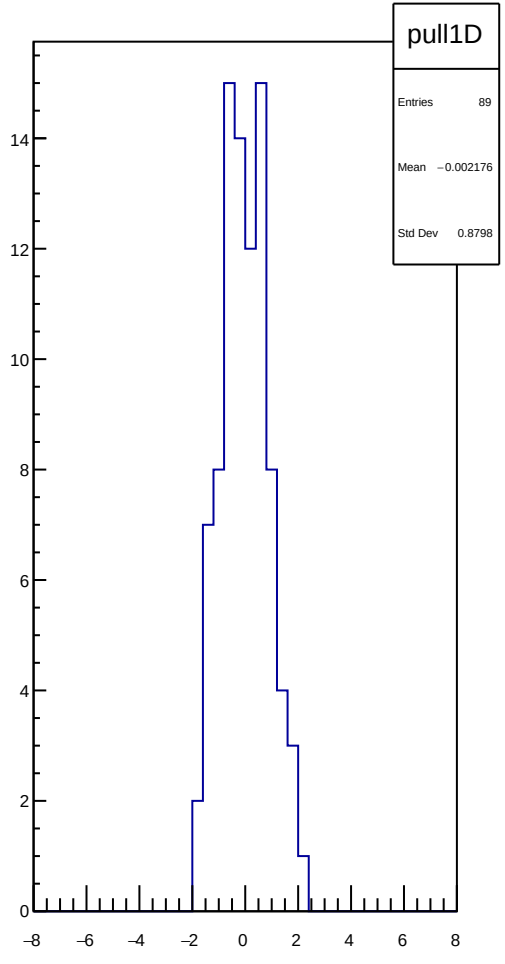

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 69.1 / 88
p0 −0.02558 ± 0.02262
pull
Entries 89
Mean −184
Std Dev 0
pull1D
Entries 89
Mean 0.00742
Std Dev 0.8811

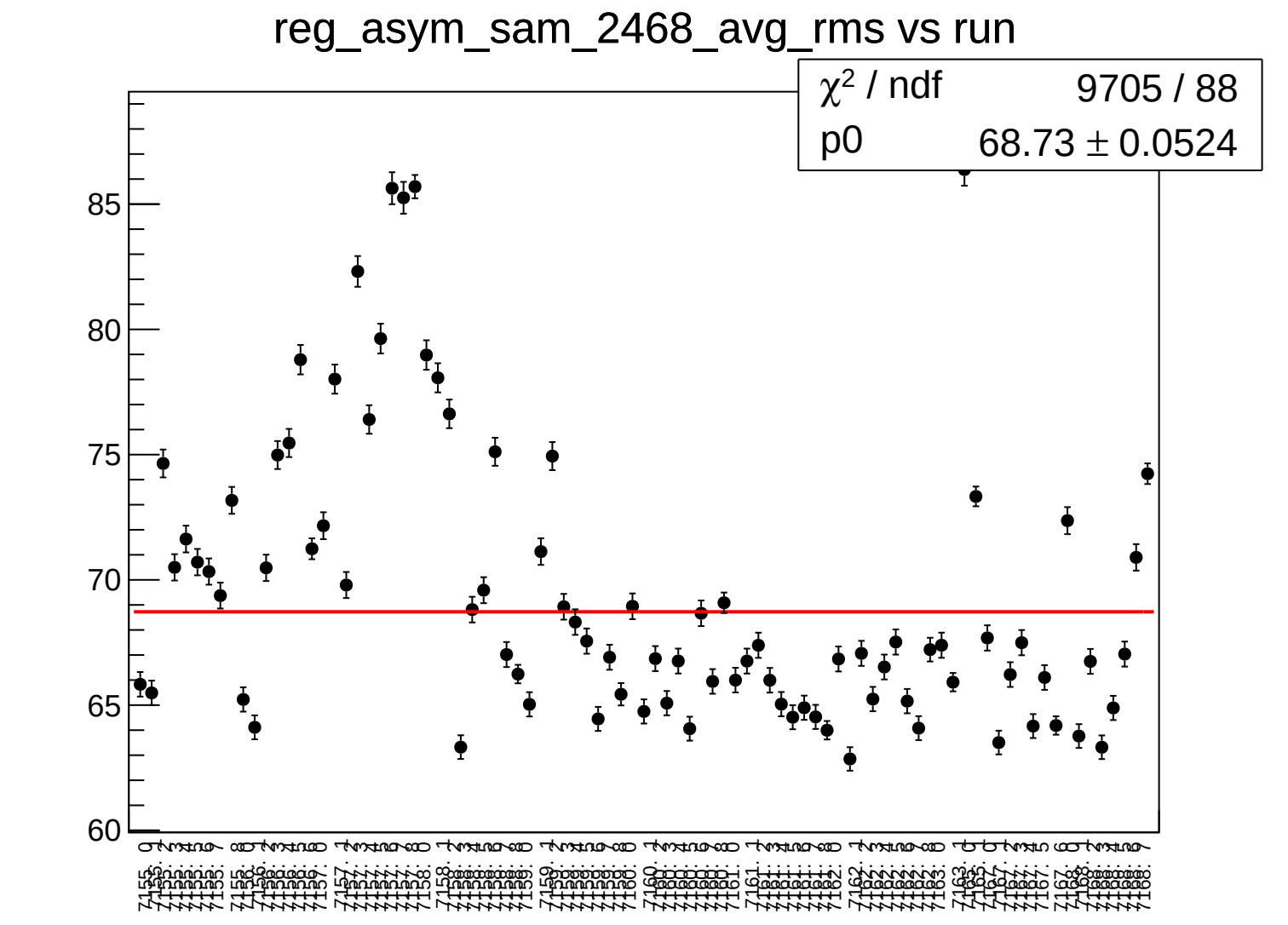

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.096e+05 / 88
p0 20.36 ± 0.016
60
50
40
30
20

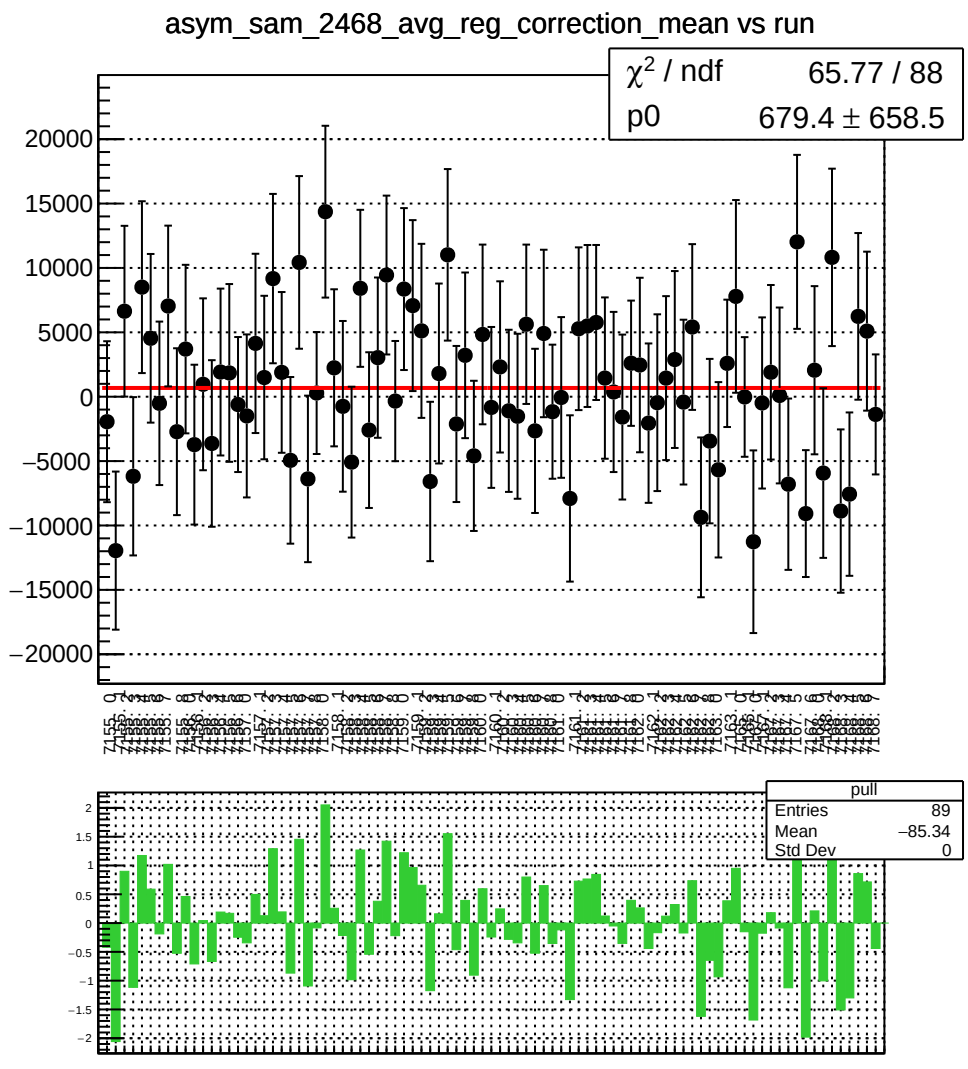

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.28 / 88
p0 5.295e−16 ± 7.549e−15
pull
Entries 89
Mean 39.39
Std Dev 34.32
pull1D
Entries 89
Mean −0.06072
Std Dev 0.9478

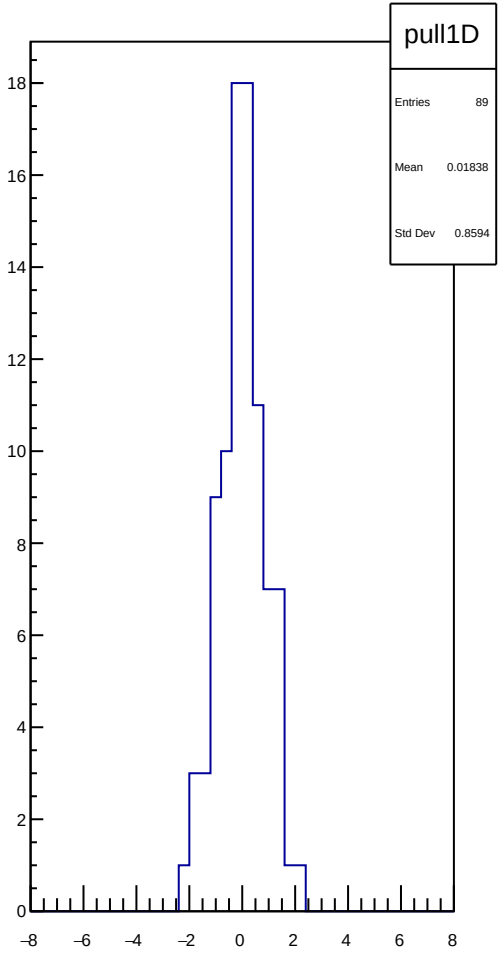

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.754e+05 / 88
p0 5.979e−12 ± 5.338e−15
40
35
30
25
20
15
10
5

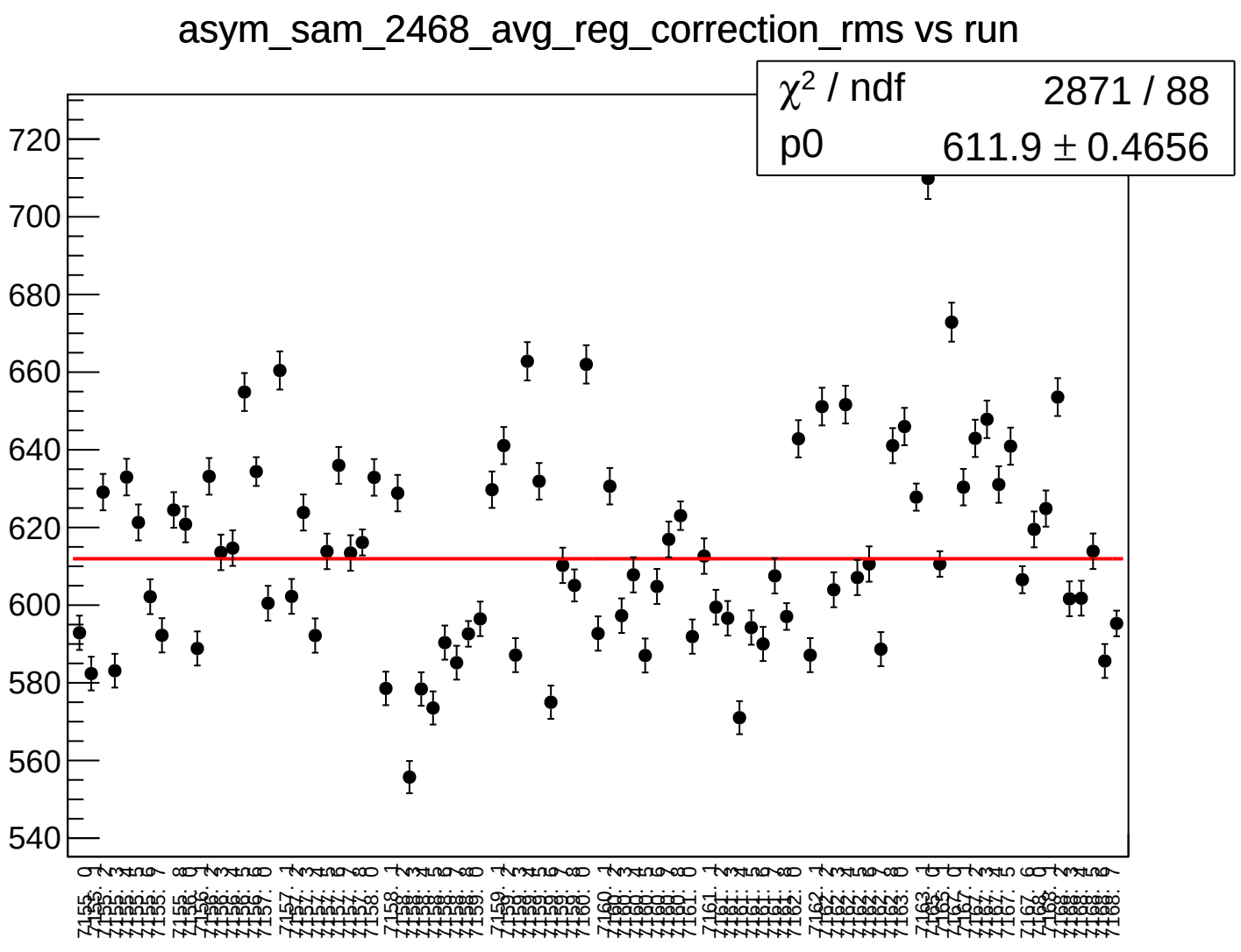

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 68.89 / 88
p0 −117.2 ± 74.1
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 940.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

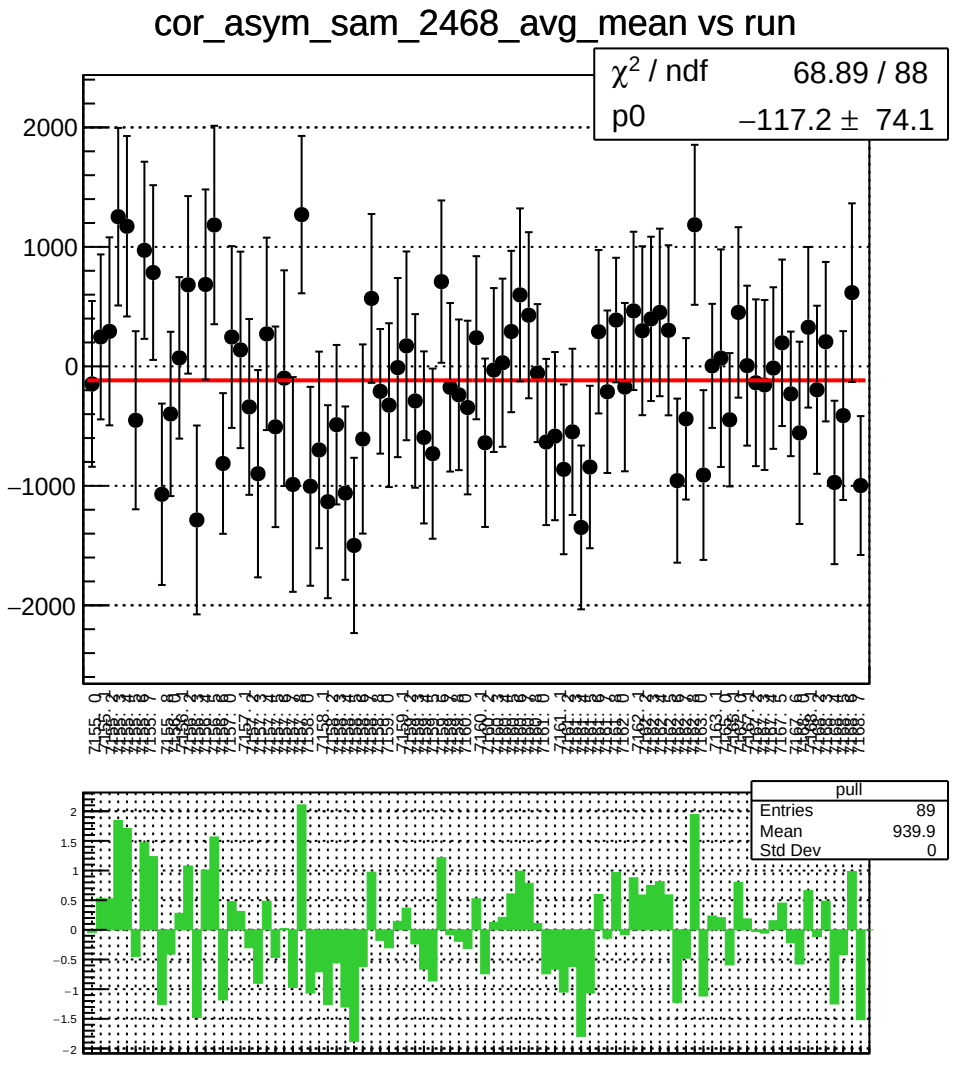

pull1D
Entries 89
Mean −0.002176
Std Dev 0.8798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

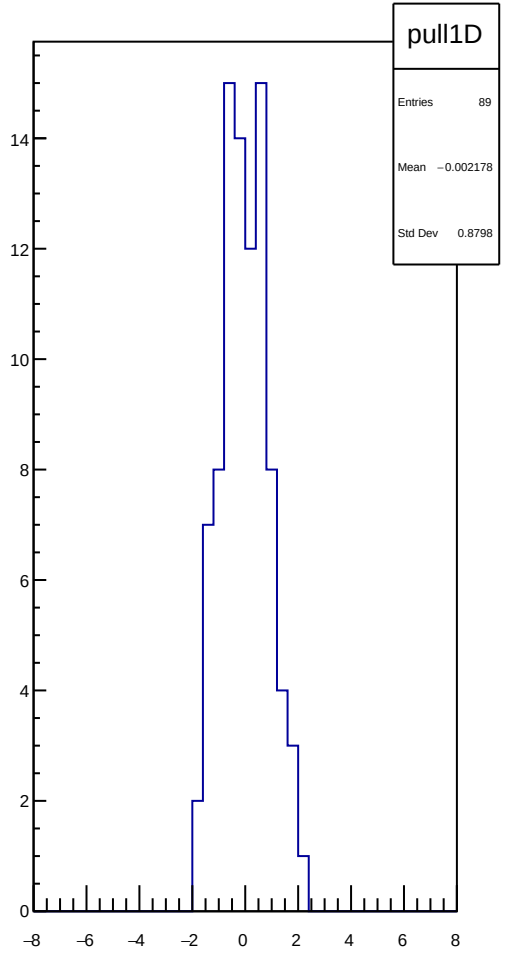

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 9705 / 88
p0 68.73 ± 0.0524
85
80
75
70
65
60

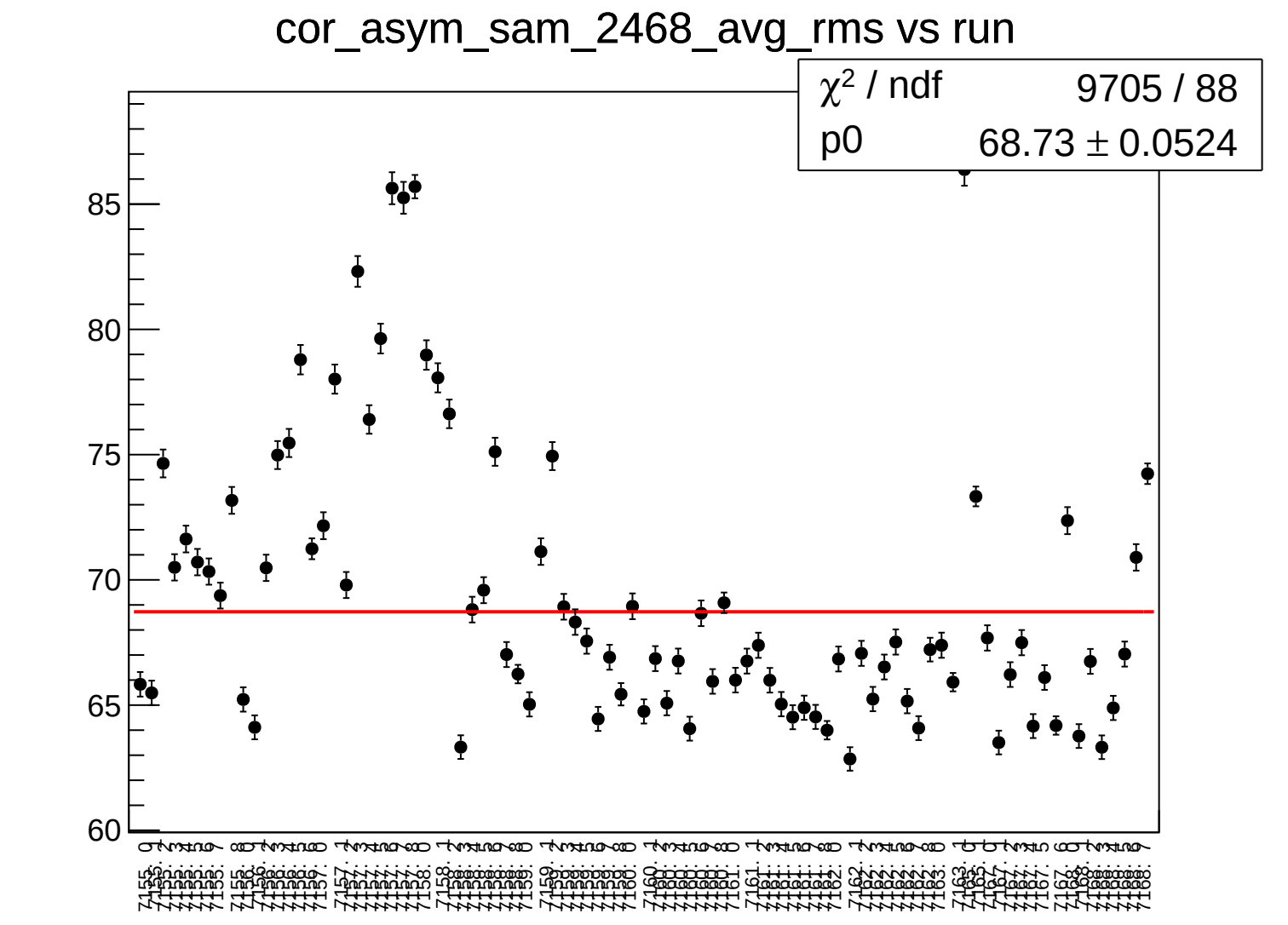

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 65.77 / 88
p0 679.4 ± 658.5
pull
Entries 89
Mean −85.34
Std Dev 0

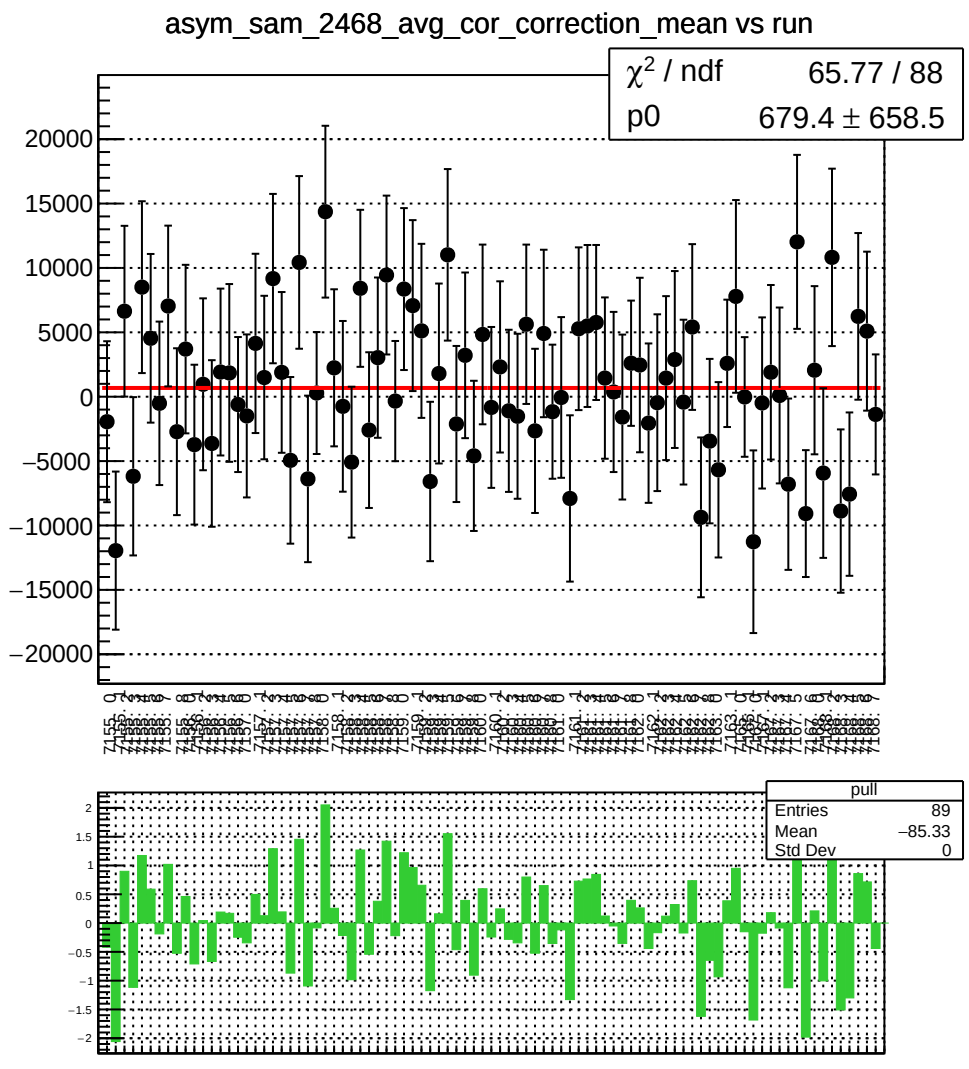

pull1D
Entries 89
Mean 0.01838
Std Dev 0.8594

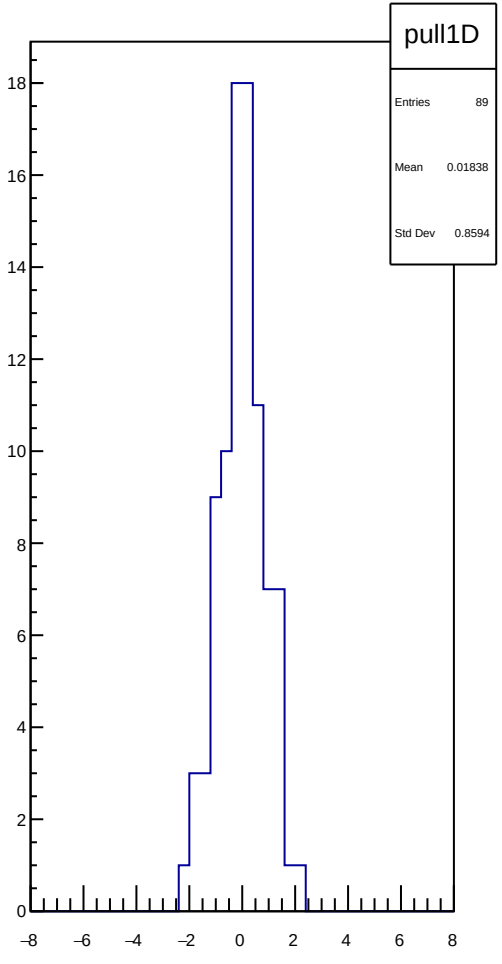

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 2871 / 88
p0 611.9 ± 0.4656
720
700
680
660
640
620
600
580
560
540

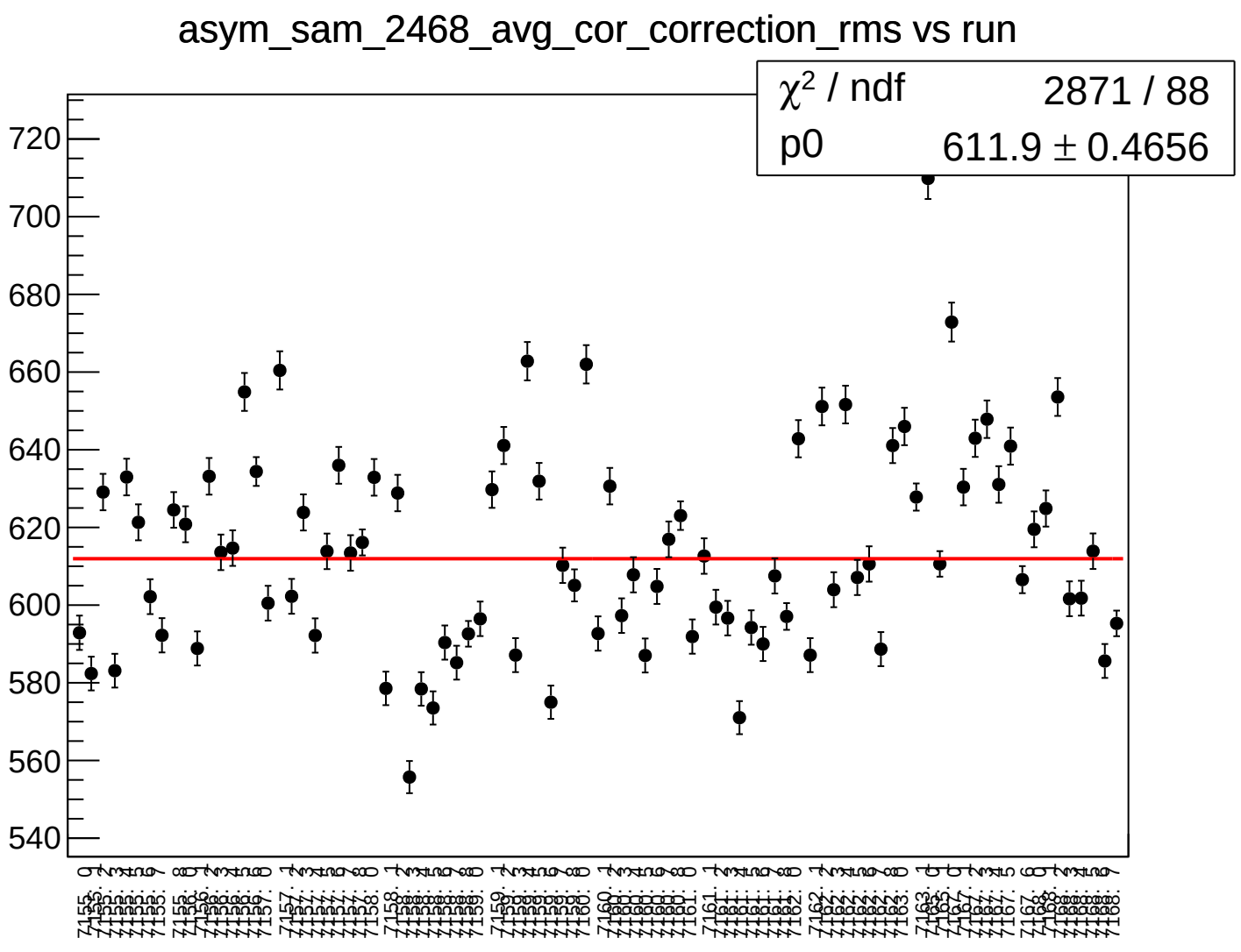

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 68.89 / 88
p0 −117.2 ± 74.1
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

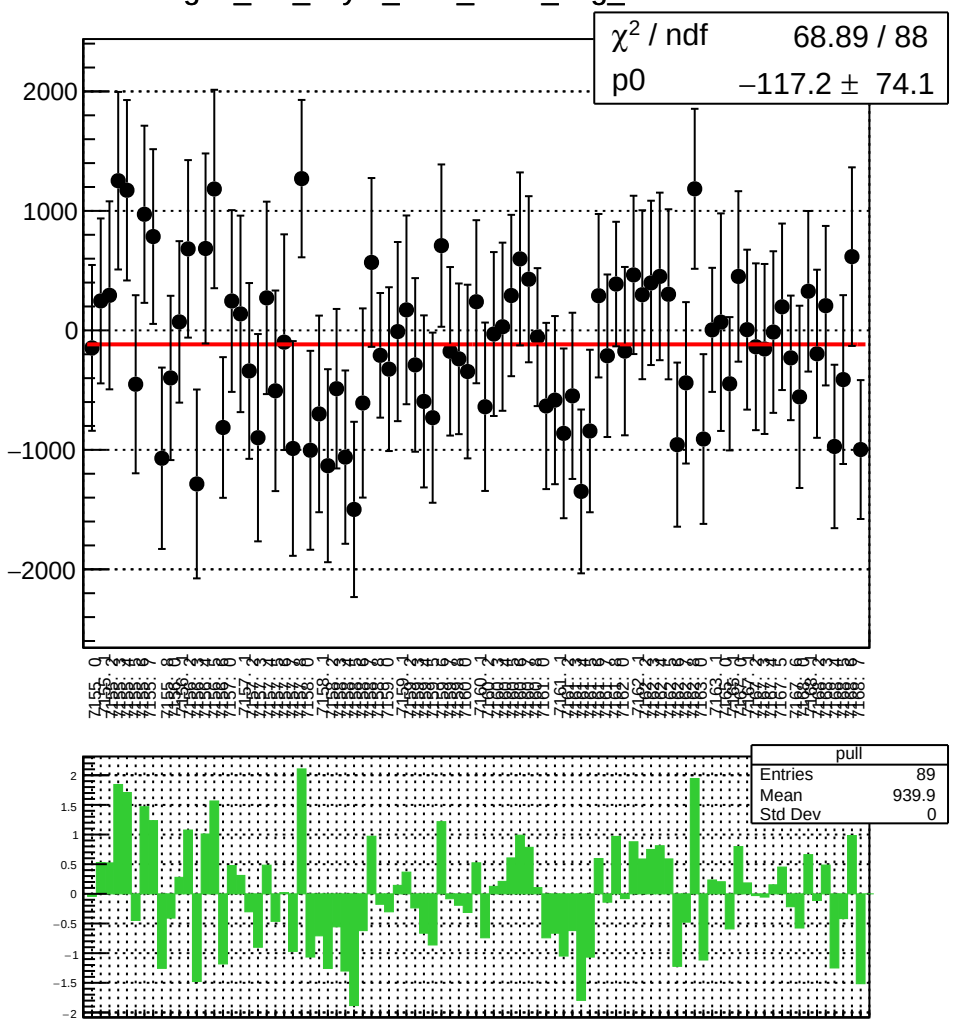

pull1D
Entries 89
Mean −0.002178
Std Dev 0.8798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

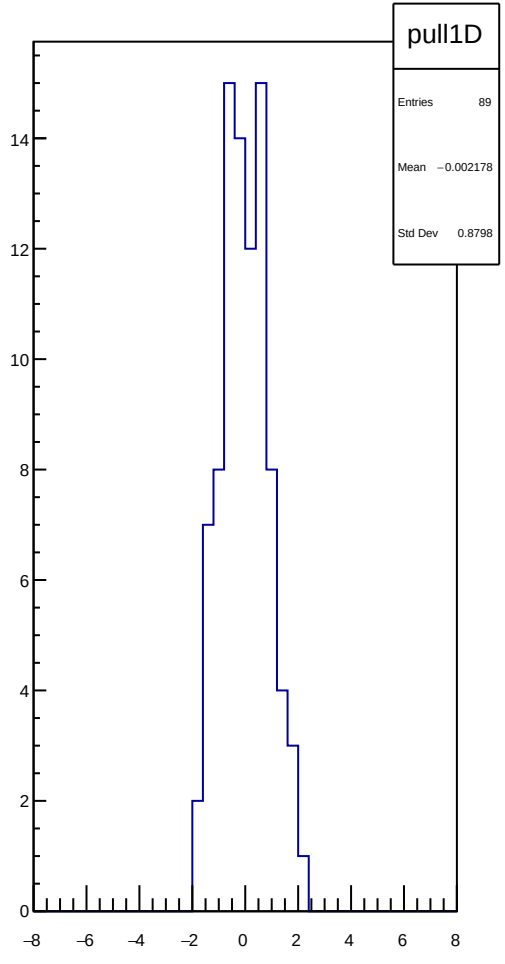

cor_asym_sam_2468_avg_rms vs run
χ² / ndf 9705 / 88
p0 68.73 ± 0.0524
85
80
75
70
65
60

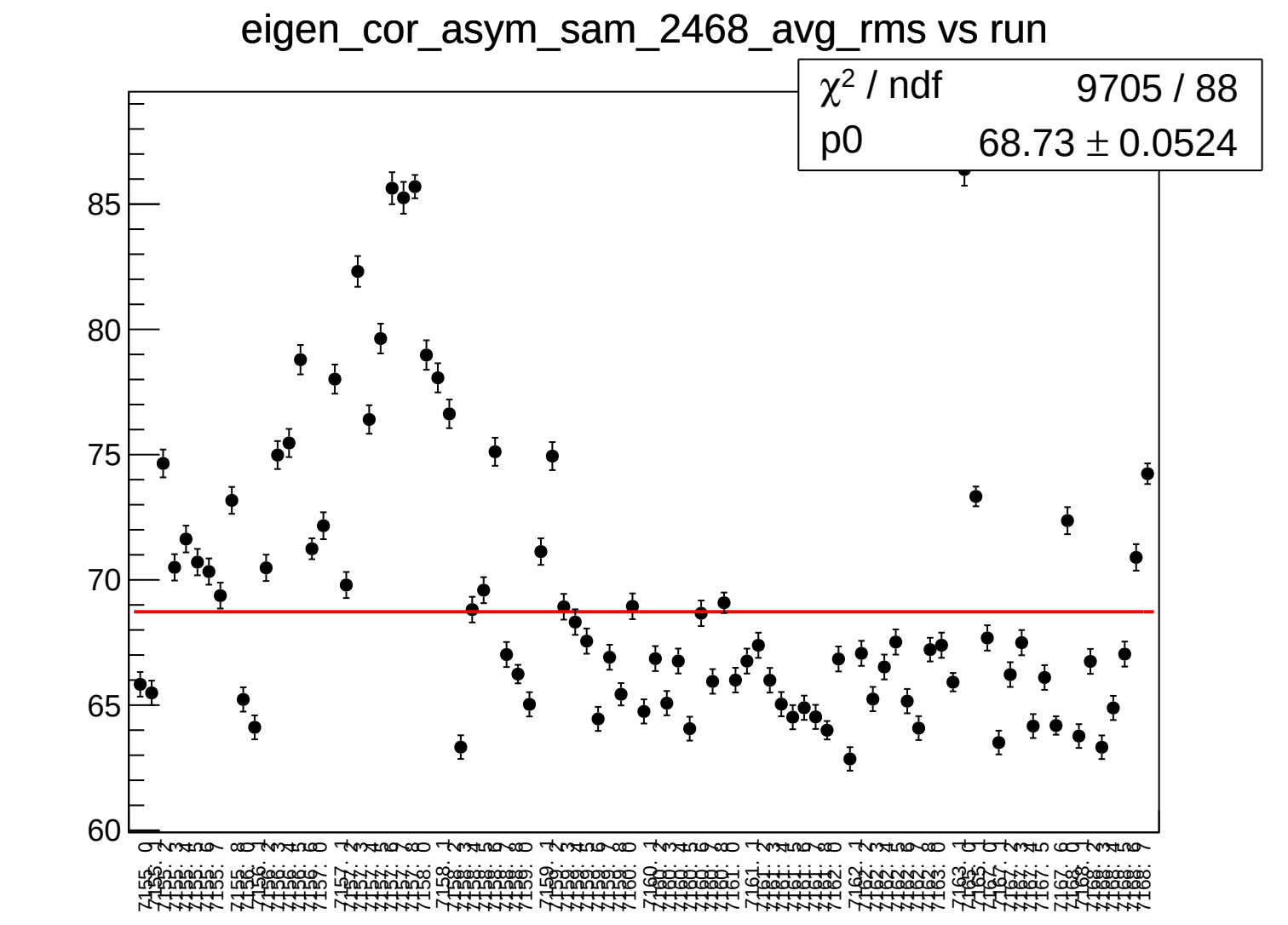

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 65.77 / 88
p0 679.4 ± 658.5
pull
Entries 89
Mean −85.33
Std Dev 0

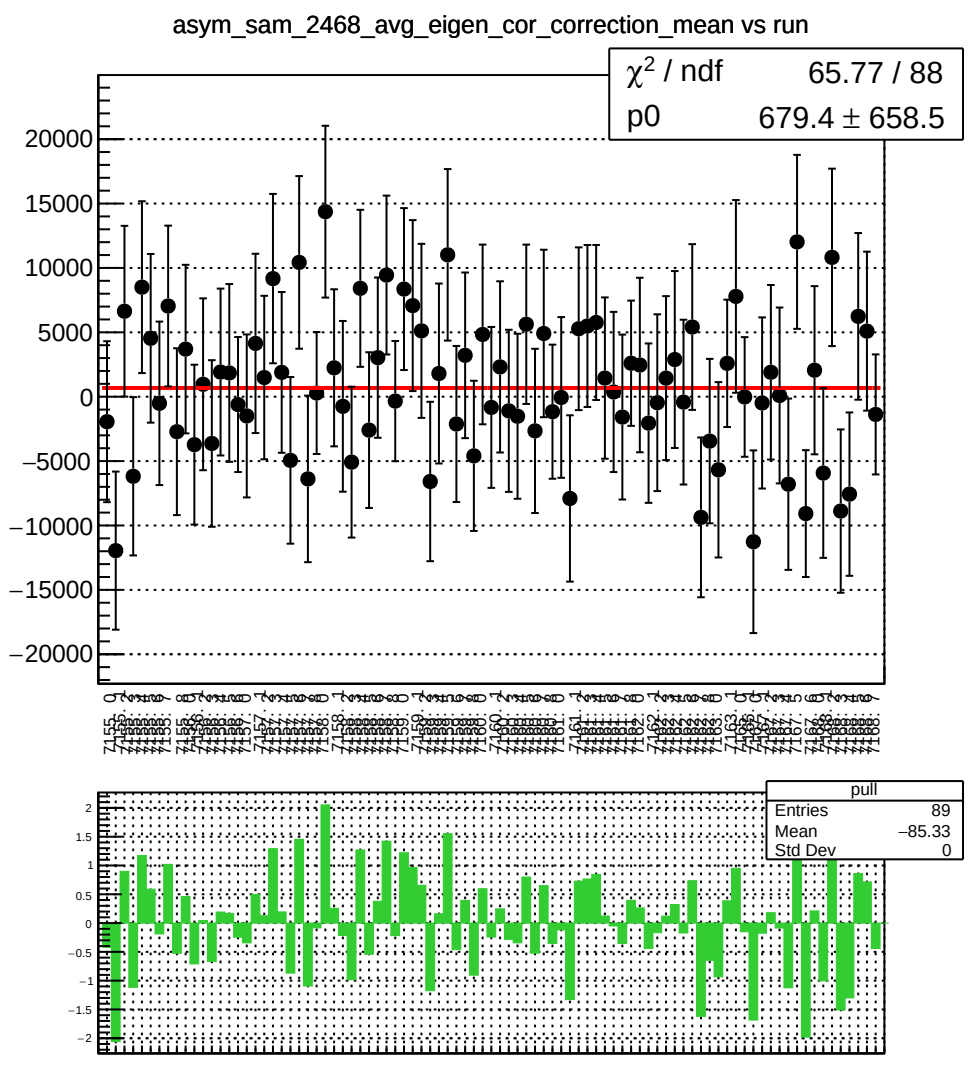

pull1D
Entries 89
Mean 0.01838
Std Dev 0.8594

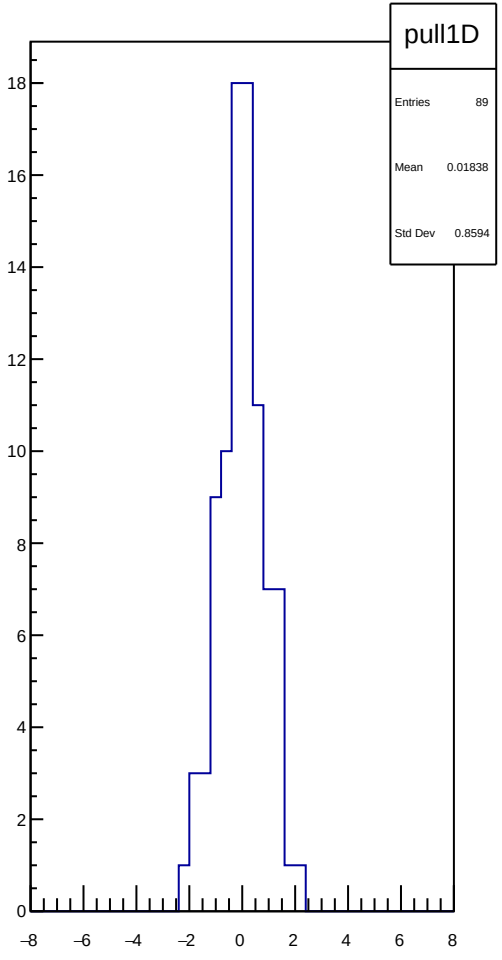

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 2871 / 88
p0 611.9 ± 0.4656
720
700
680
660
640
620
600
580
560
540

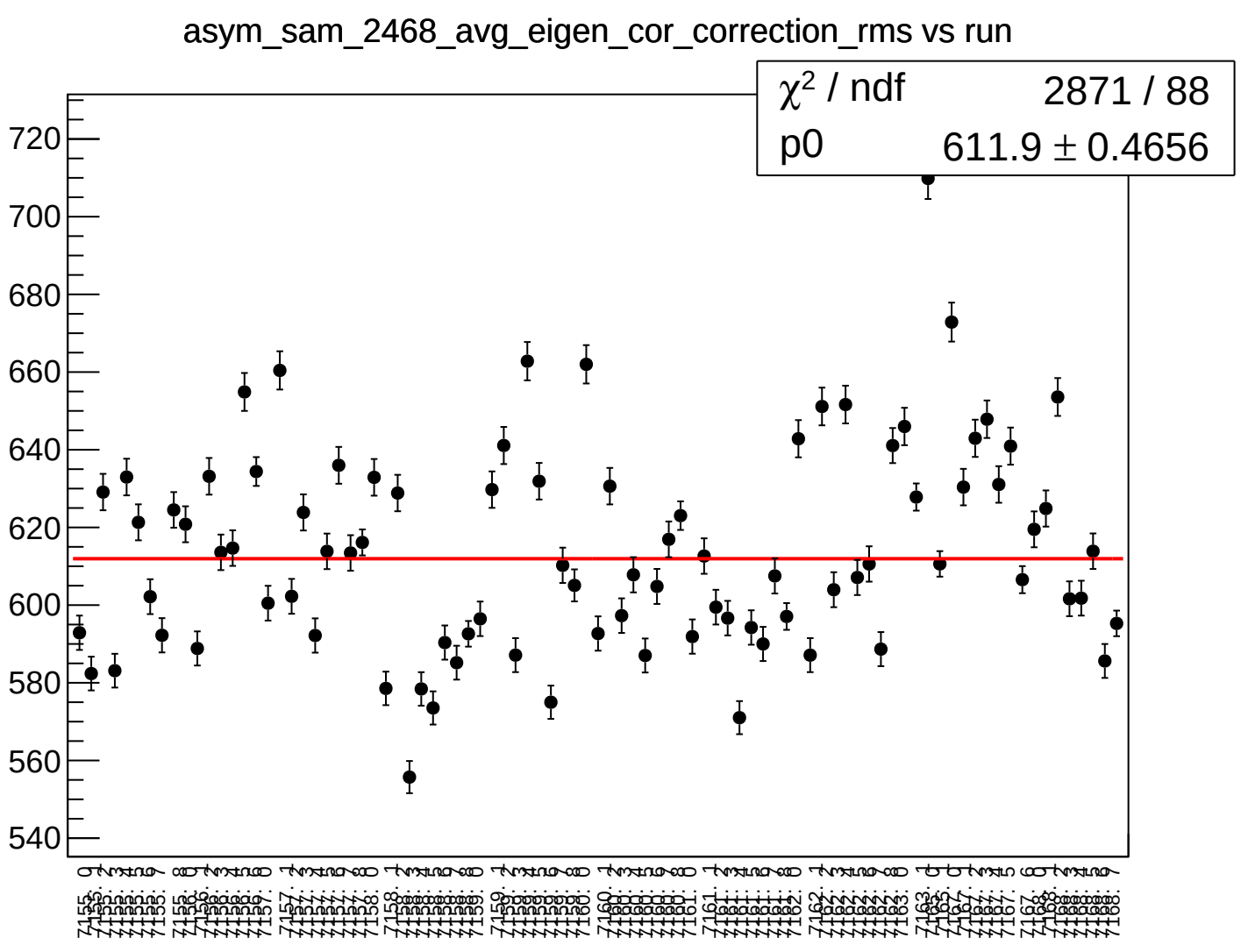

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 68.89 / 88
p0 −117.2 ± 74.1
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 939.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

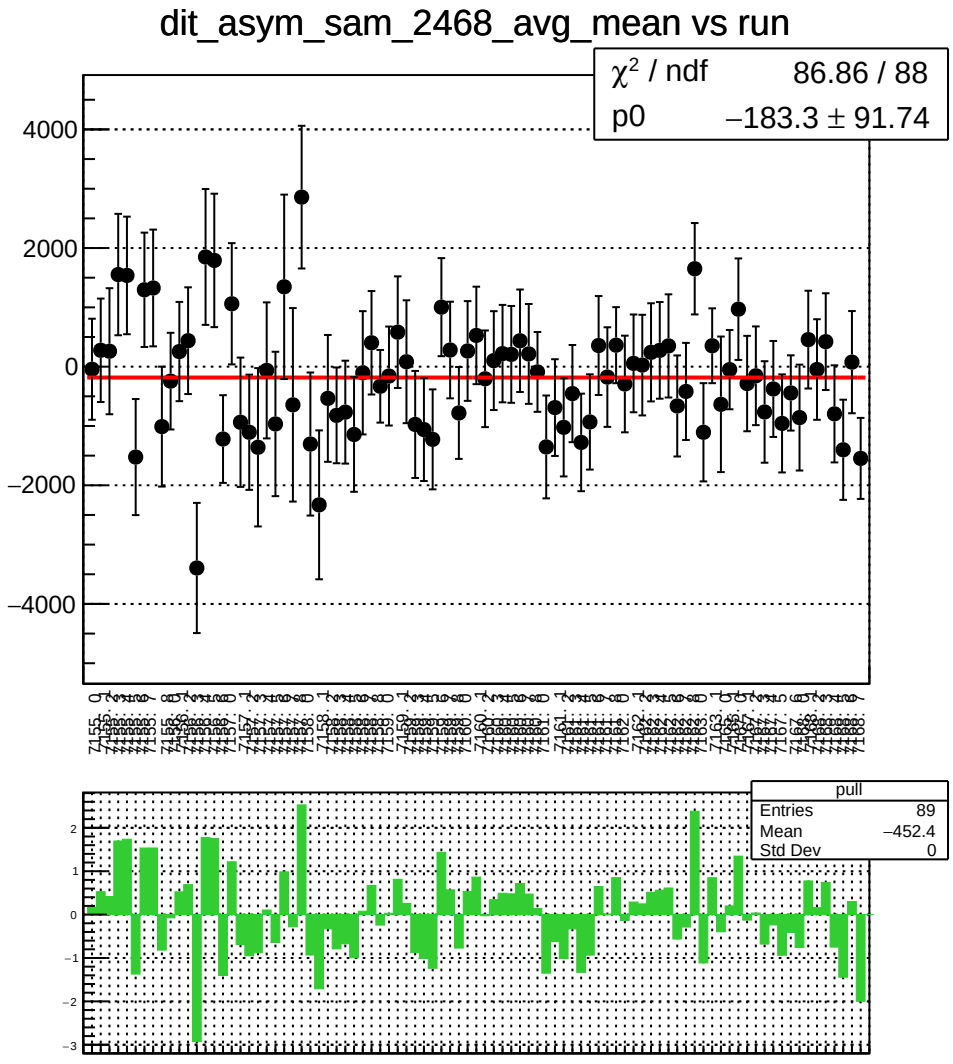

pull1D
Entries 89
Mean −0.002178
Std Dev 0.8798
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

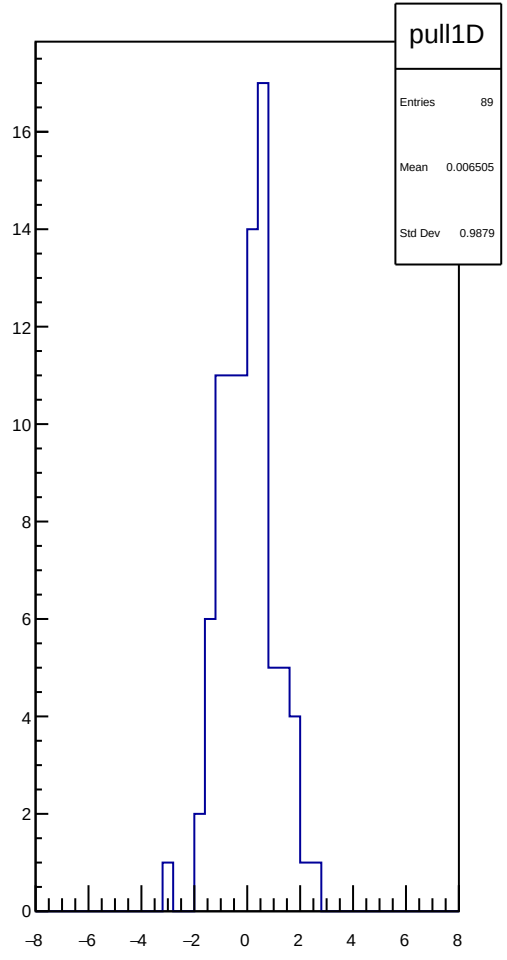

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 9705 / 88
p0 68.73 ± 0.0524
85
80
75
70
65
60

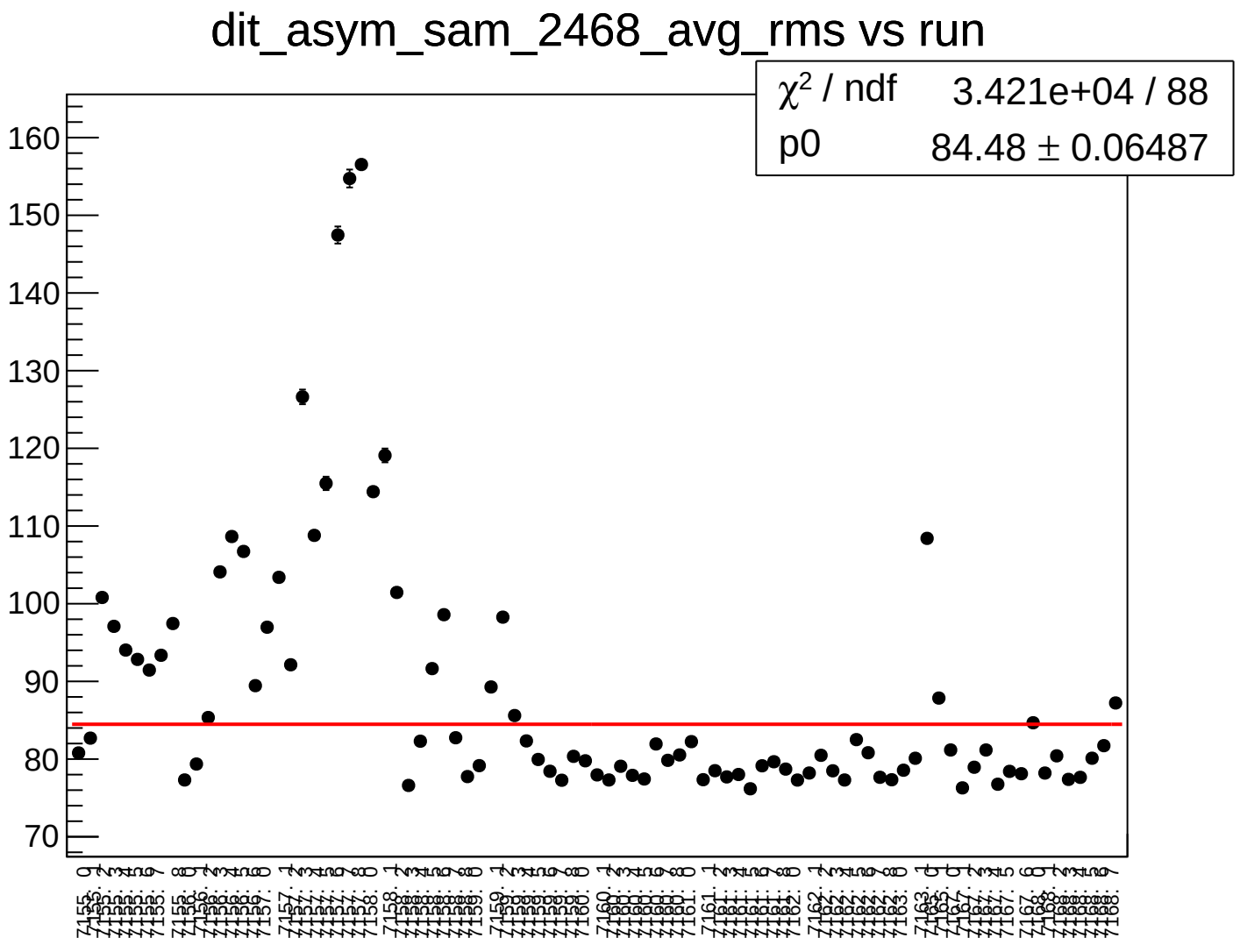

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.77 / 88
p0 679.4 ± 658.5
pull
Entries 89
Mean −85.33
Std Dev 0

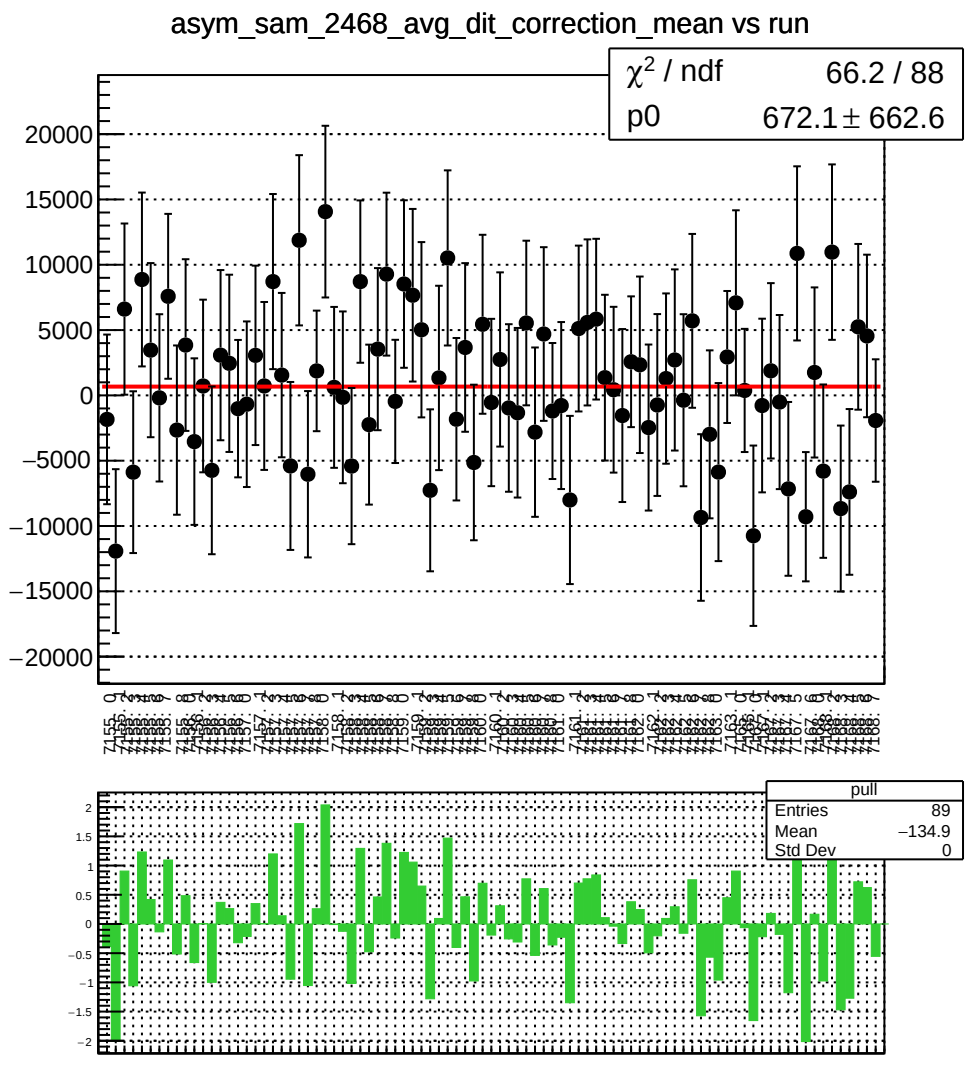

pull1D
Entries 89
Mean 0.01838
Std Dev 0.8594

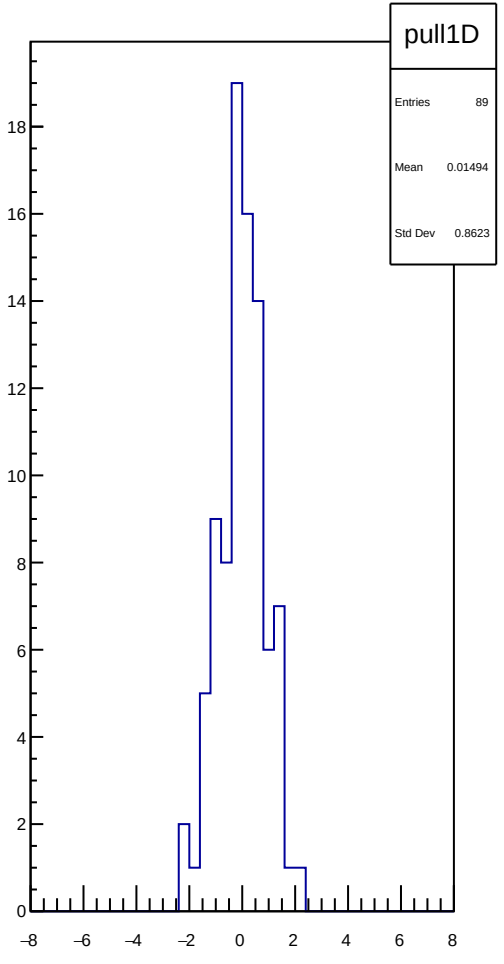

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 2871 / 88
p0 611.9 ± 0.4656
720
700
680
660
640
620
600
580
560
540

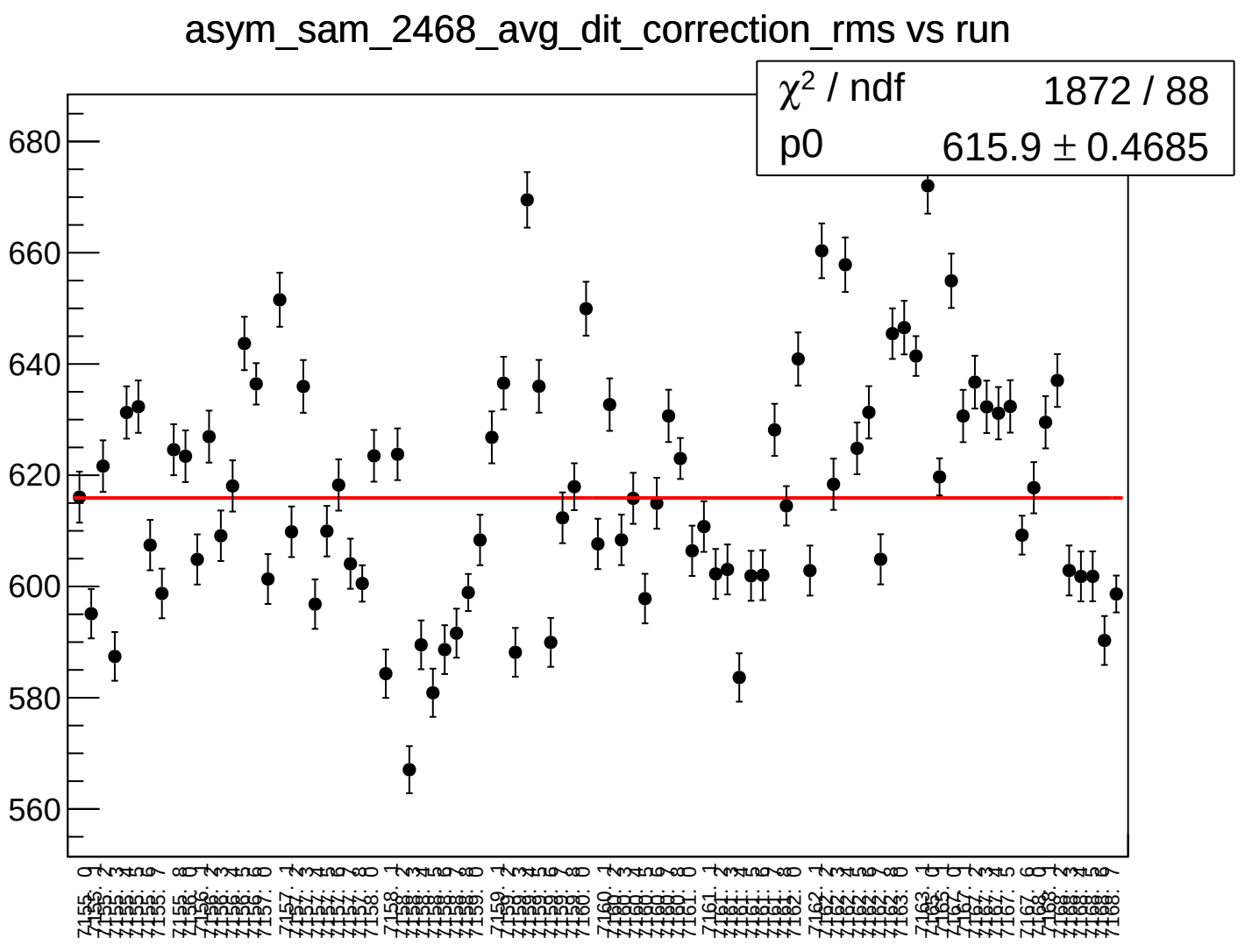

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 86.86 / 88
p0 −183.3 ± 91.74
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −452.4
Std Dev 0
2
1
0
−1
−2
−3

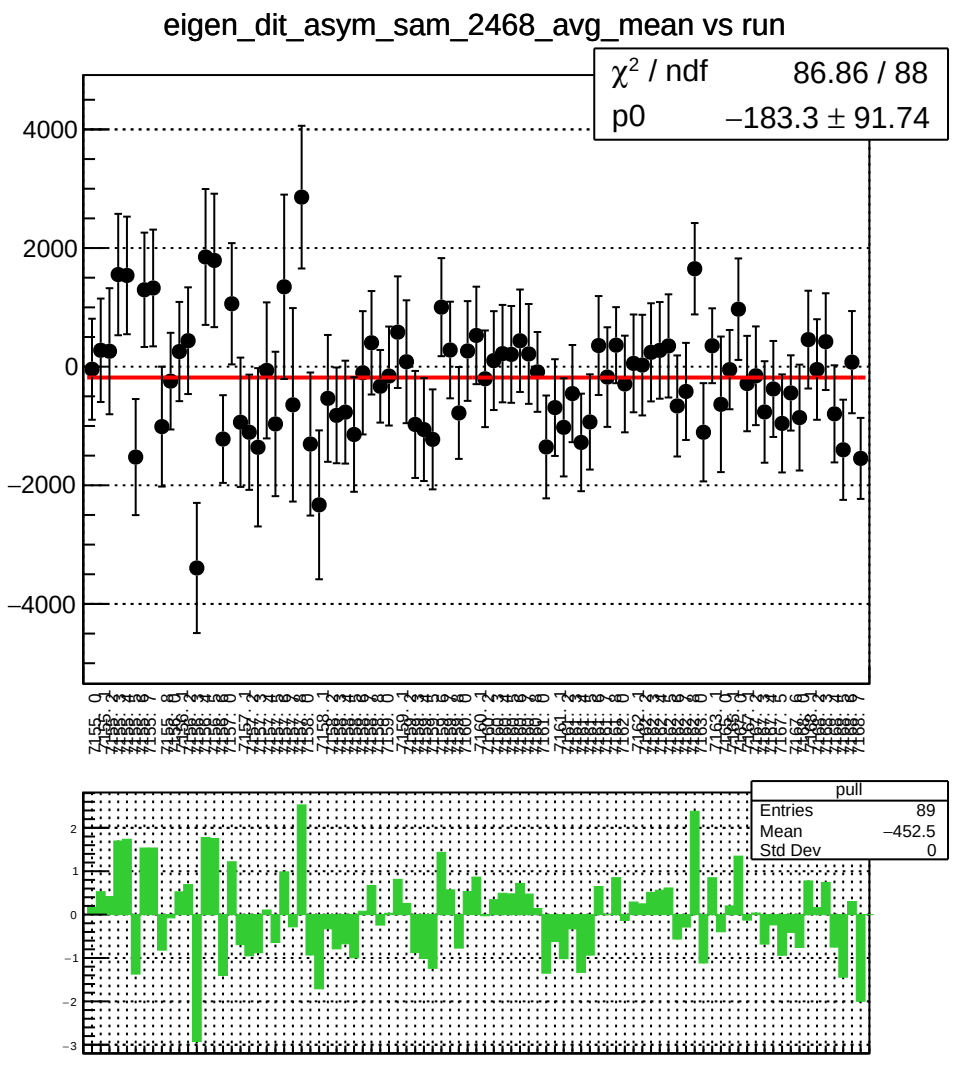

pull1D
Entries 89
Mean 0.006505
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

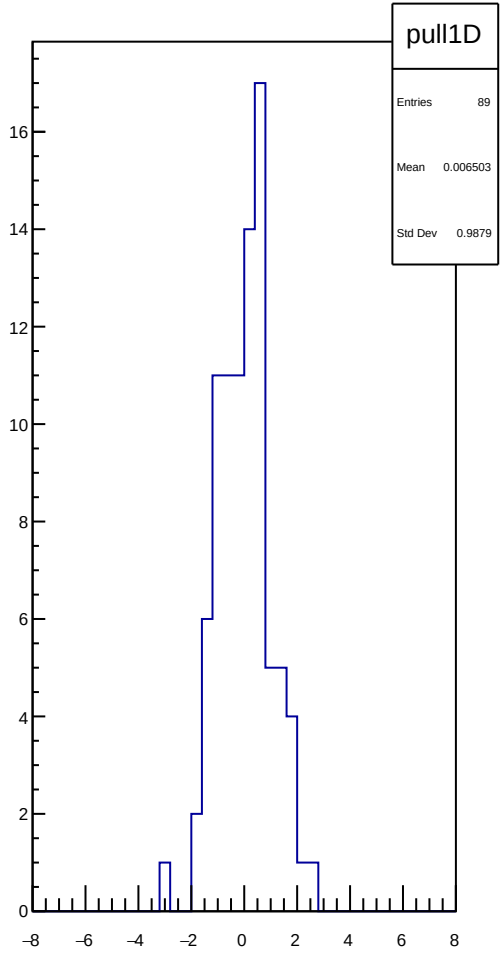

dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.421e+04 / 88
p0 84.48 ± 0.06487
160
150
140
130
120
110
100
90
80
70

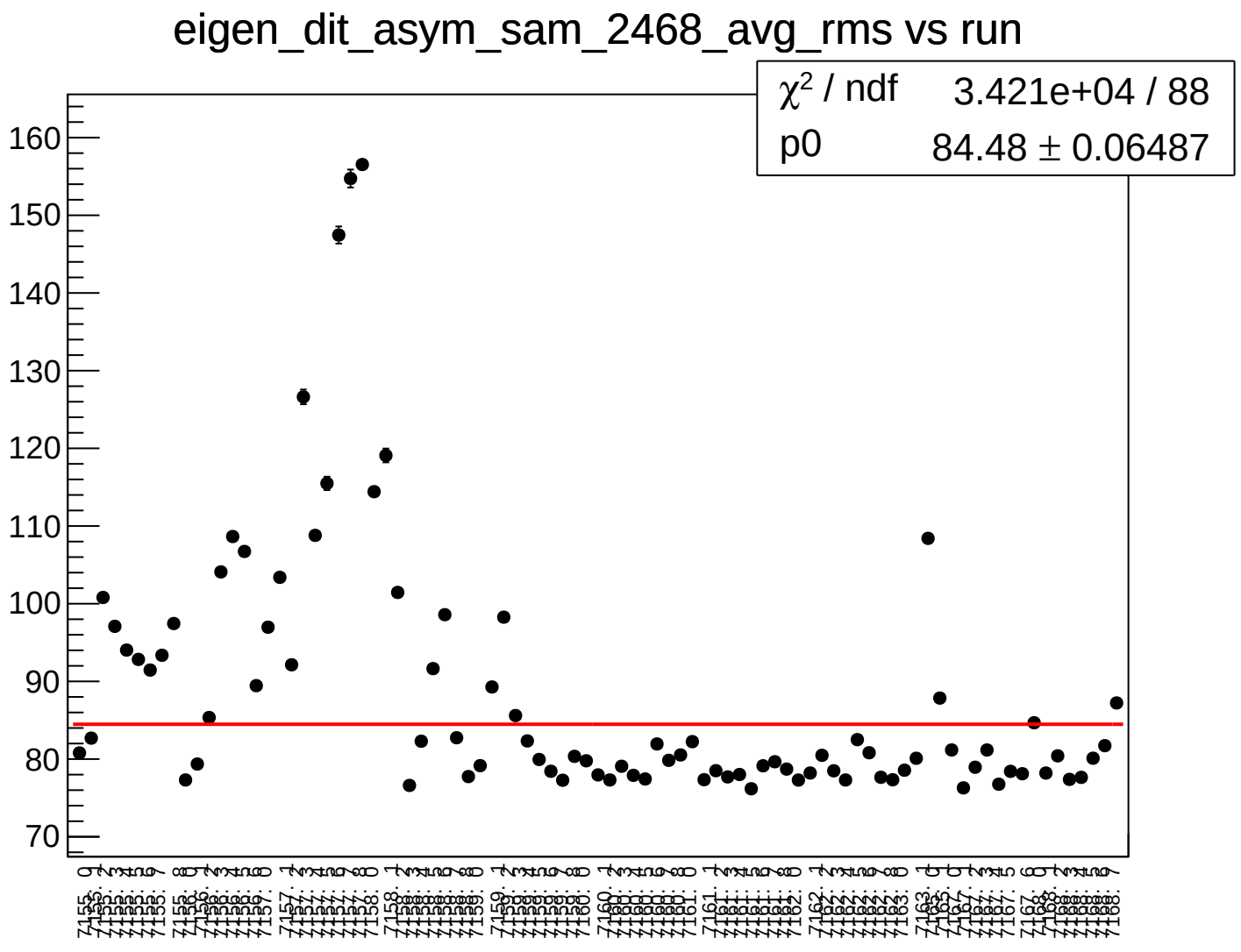

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 66.2 / 88
p0 672.1 ± 662.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −134.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

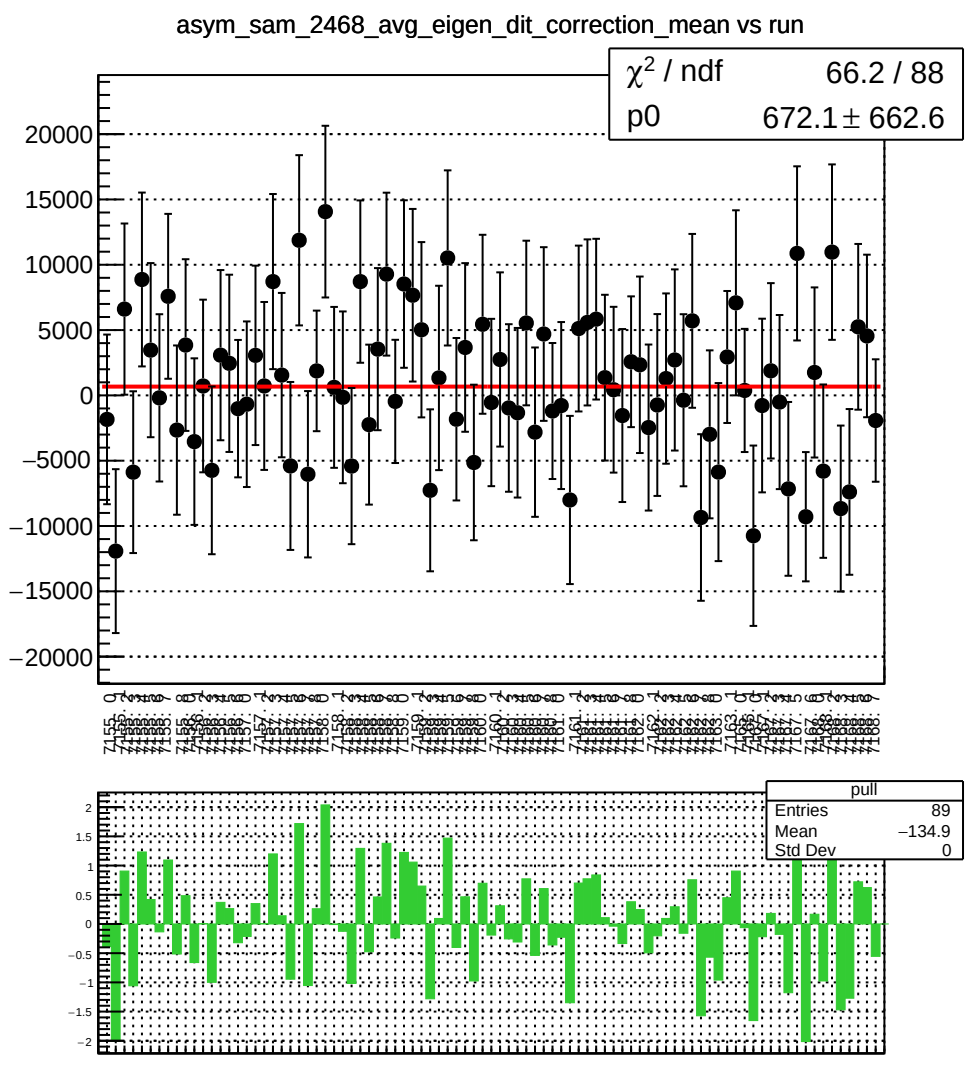

pull1D
Entries 89
Mean 0.01494
Std Dev 0.8623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

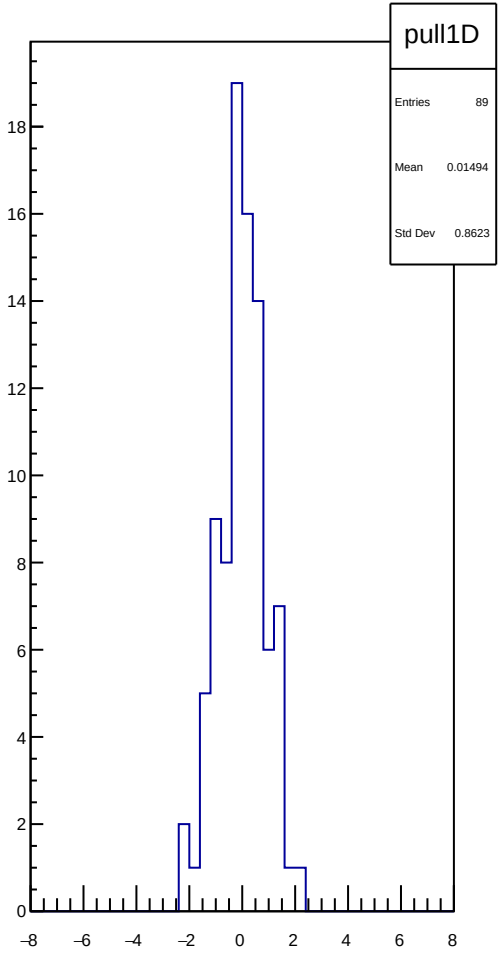

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1872 / 88
p0 615.9 ± 0.4685
680
660
640
620
600
580
560

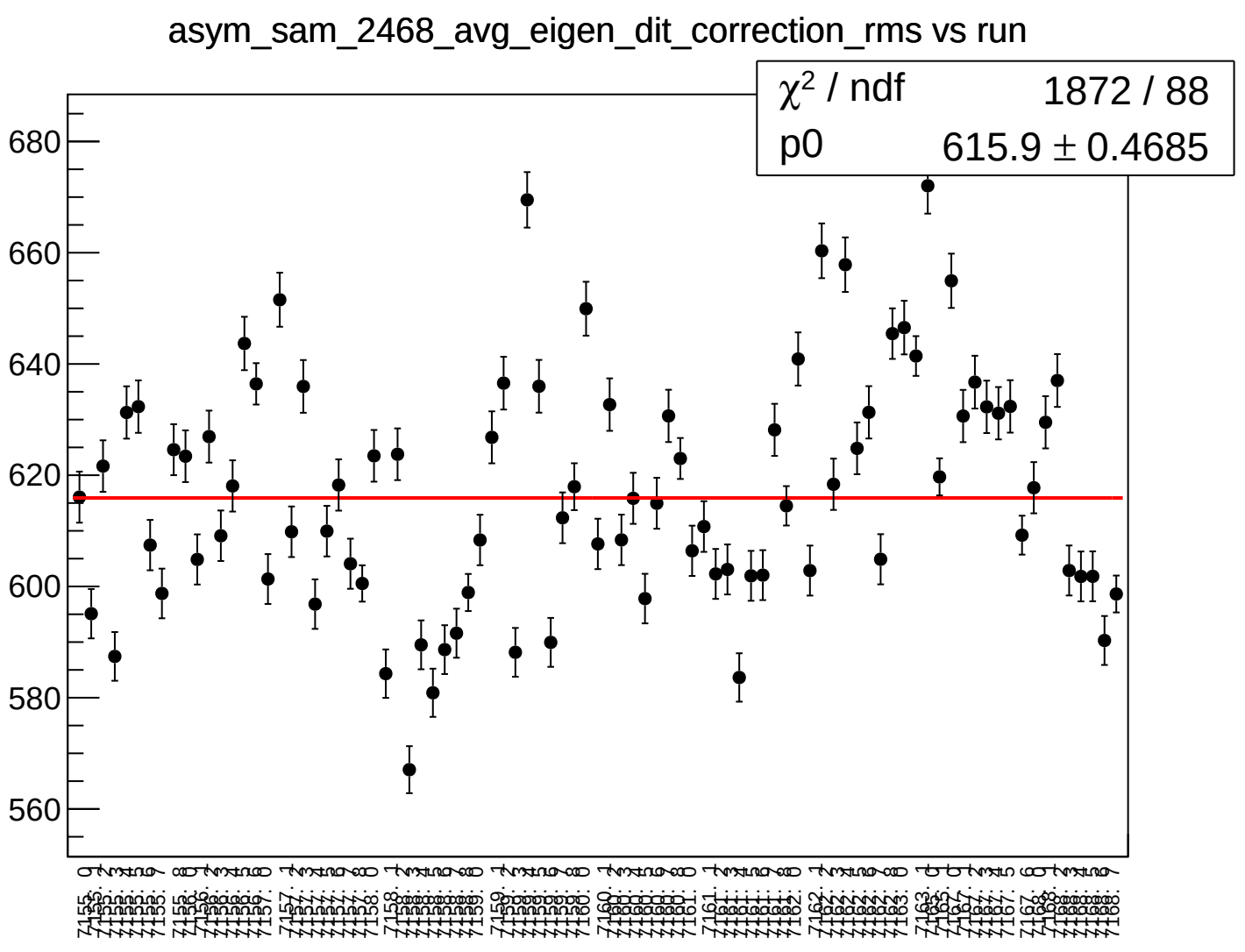

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 86.86 / 88
p0 −183.3 ± 91.74
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −452.5
Std Dev 0
2
1
0
−1
−2
−3

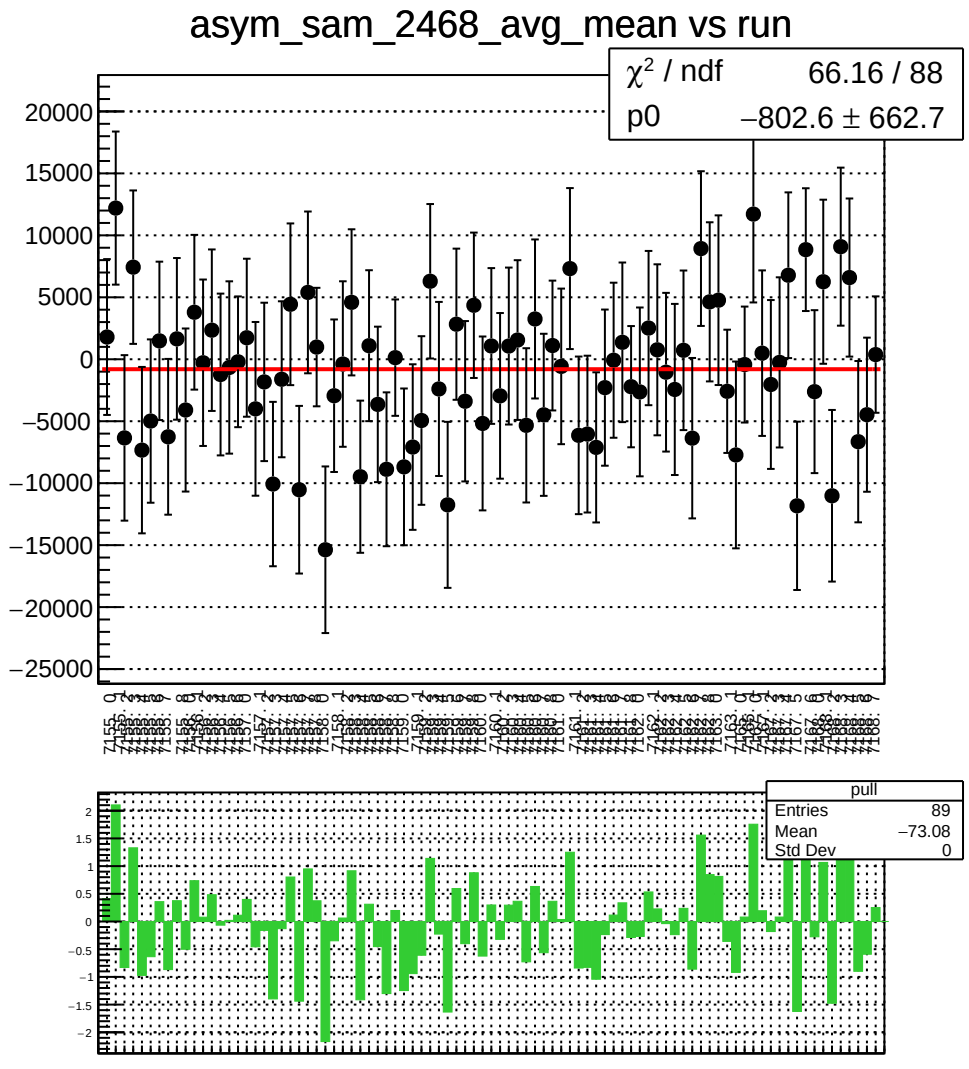

pull1D
Entries 89
Mean 0.006503
Std Dev 0.9879
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

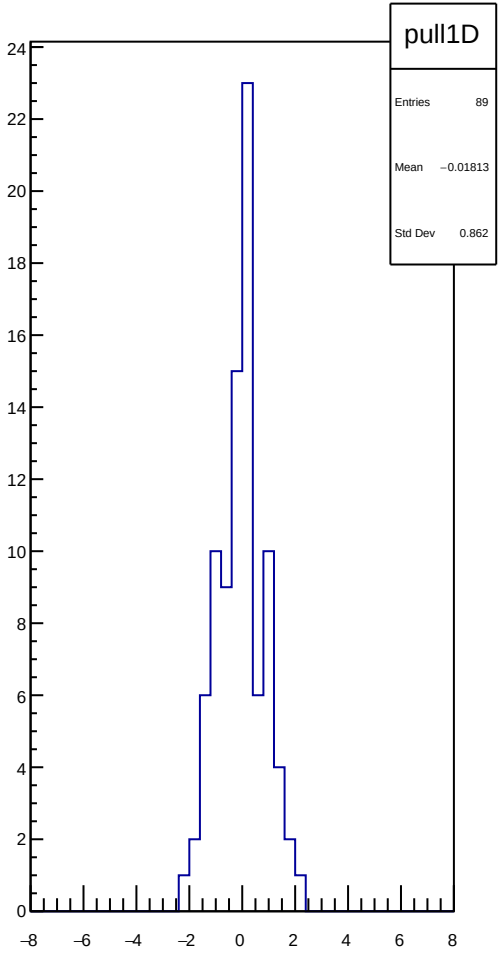

eigen_dit_asym_sam_2468_avg_rms vs run
χ^2 / ndf 3.421e+04 / 88
p0 84.48 ± 0.06487
160
150
140
130
120
110
100
90
80
70

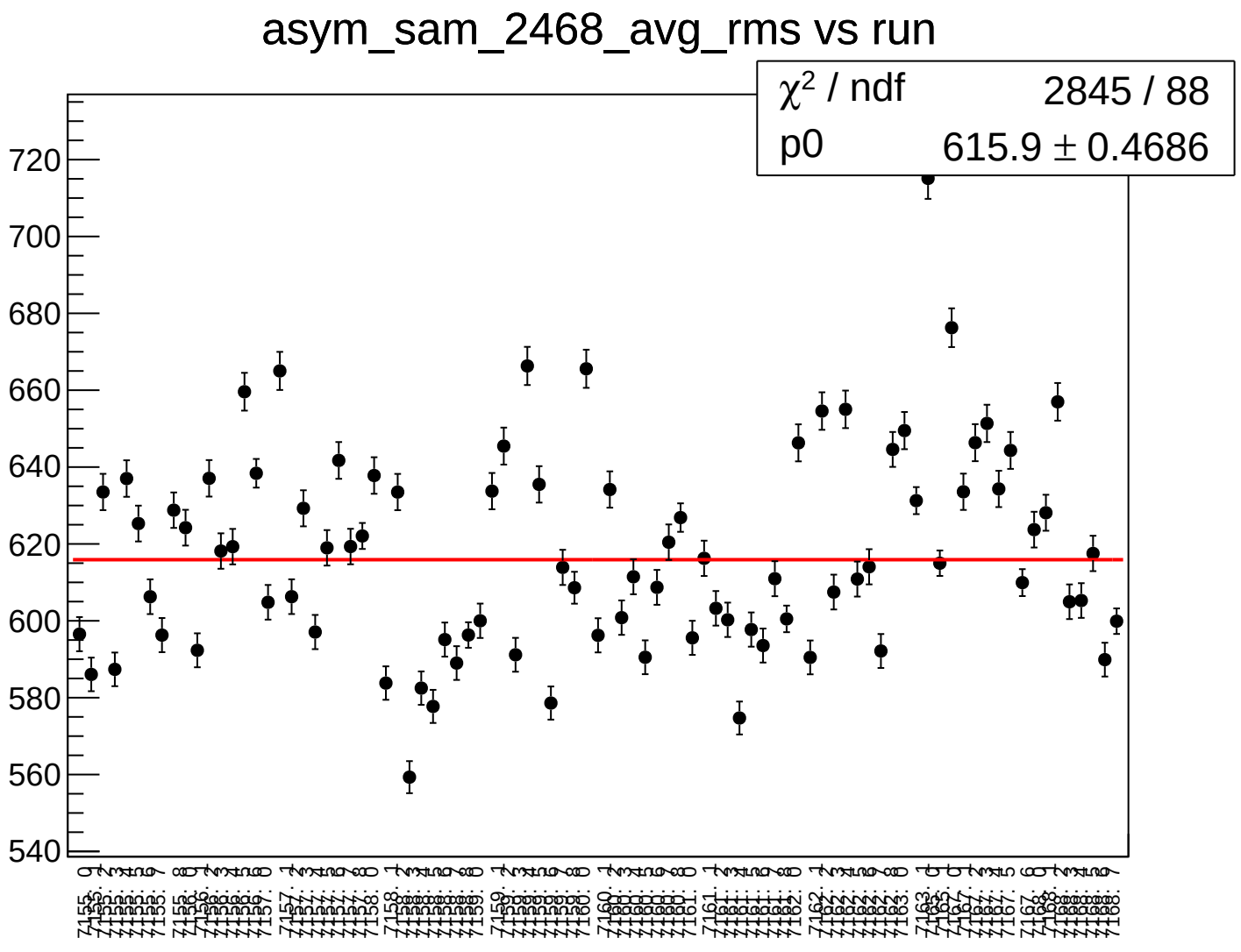

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.2 / 88
p0 672.1 ± 662.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 89
Mean −134.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

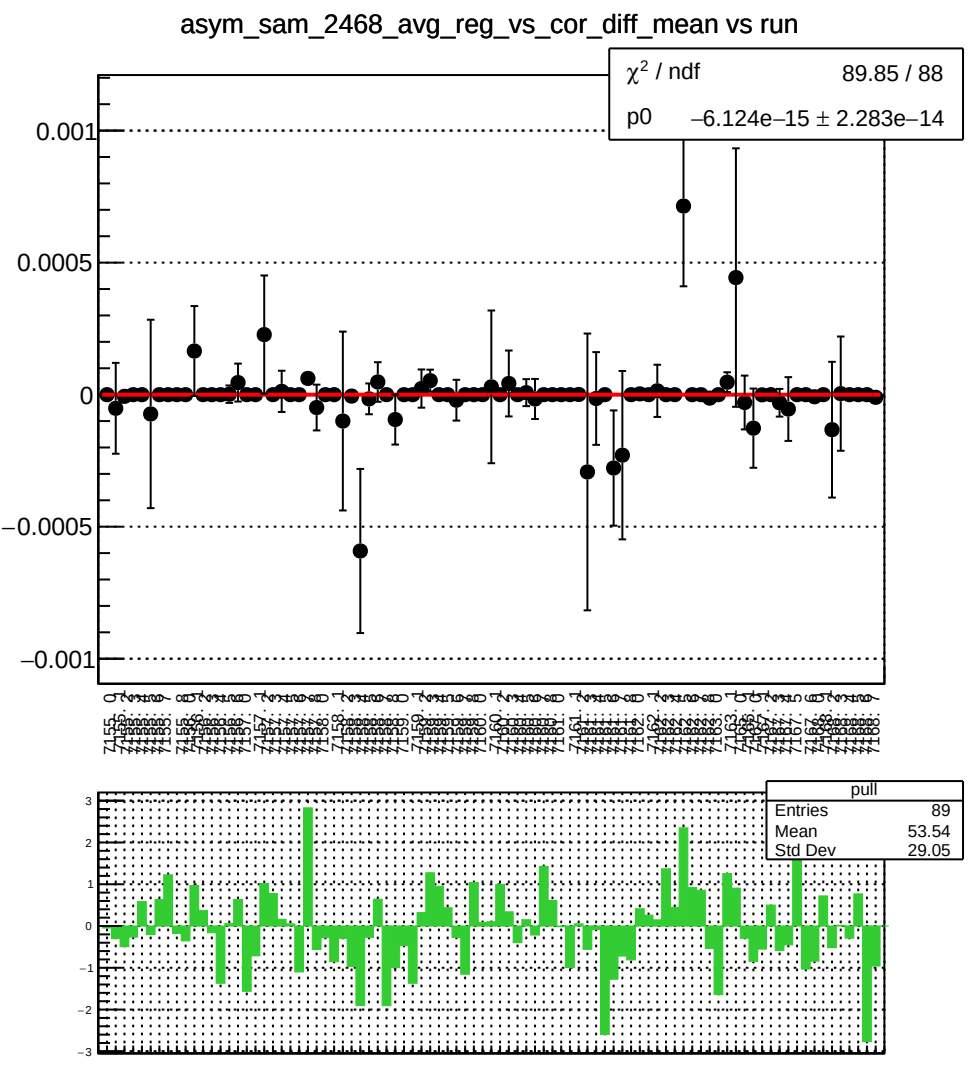

pull1D
Entries 89
Mean 0.01494
Std Dev 0.8623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

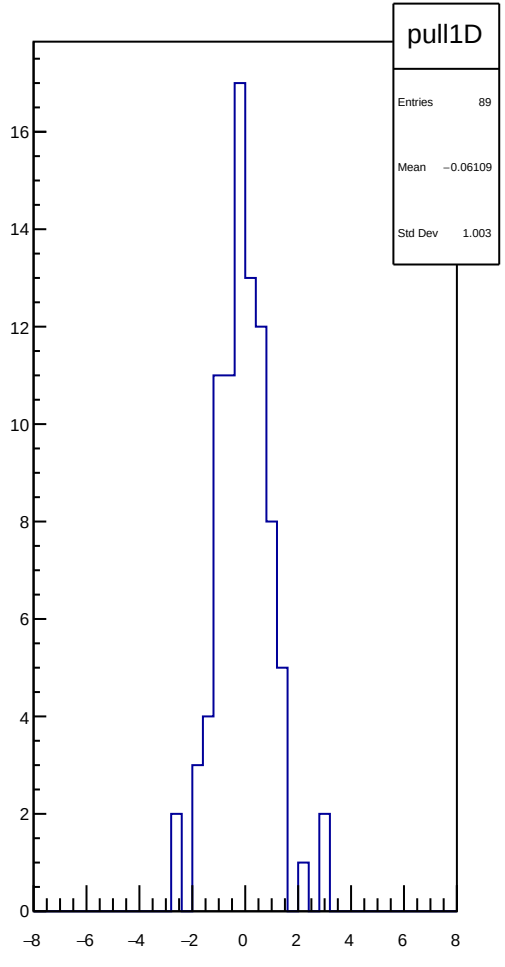

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 1872 / 88
p0 615.9 ± 0.4685
680
660
640
620
600
580
560

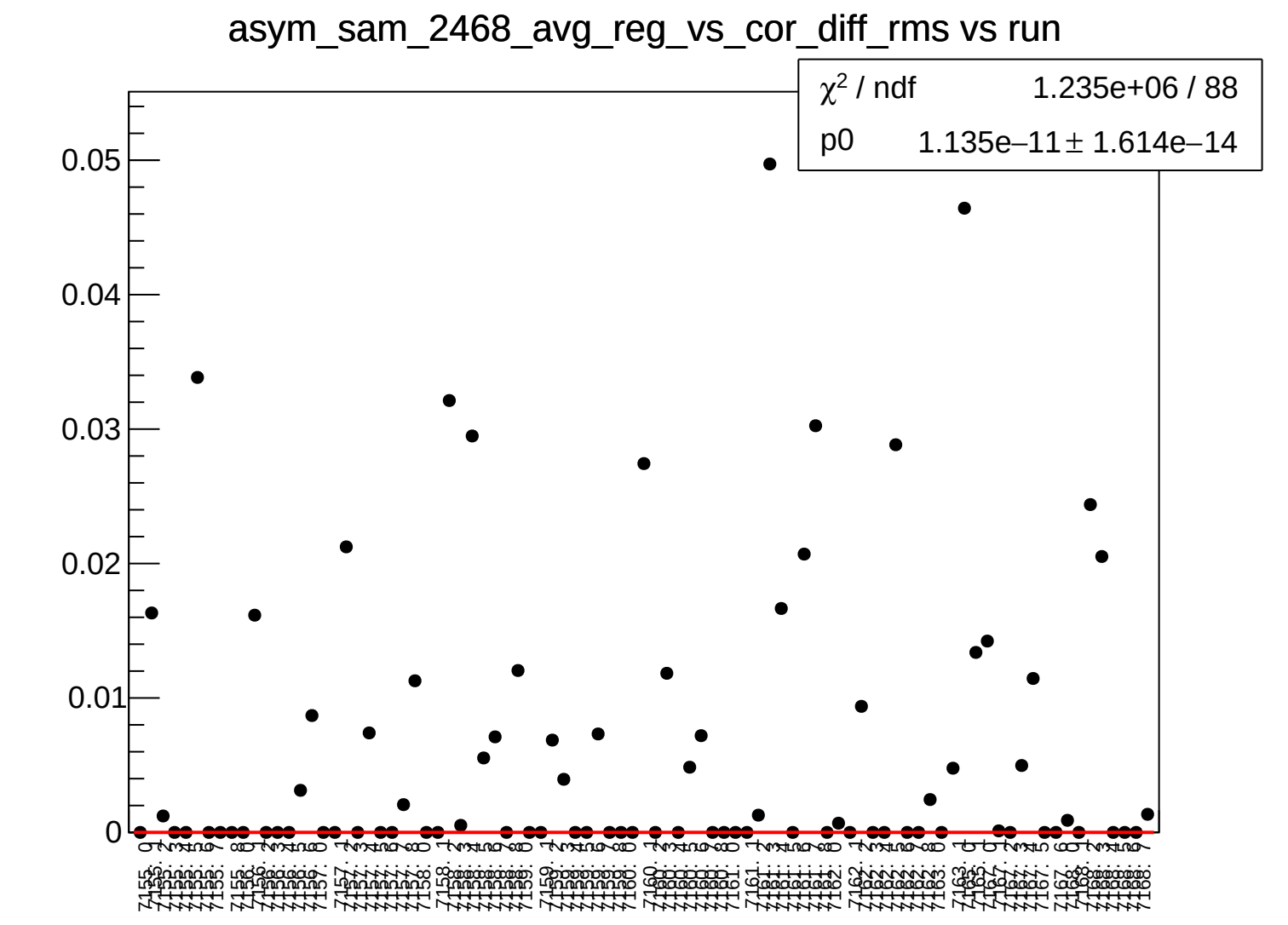

asym_sam_2468_avg_mean vs run
χ² / ndf 66.16 / 88
p0 −802.6 ± 662.7
pull
Entries 89
Mean −73.08
Std Dev 0

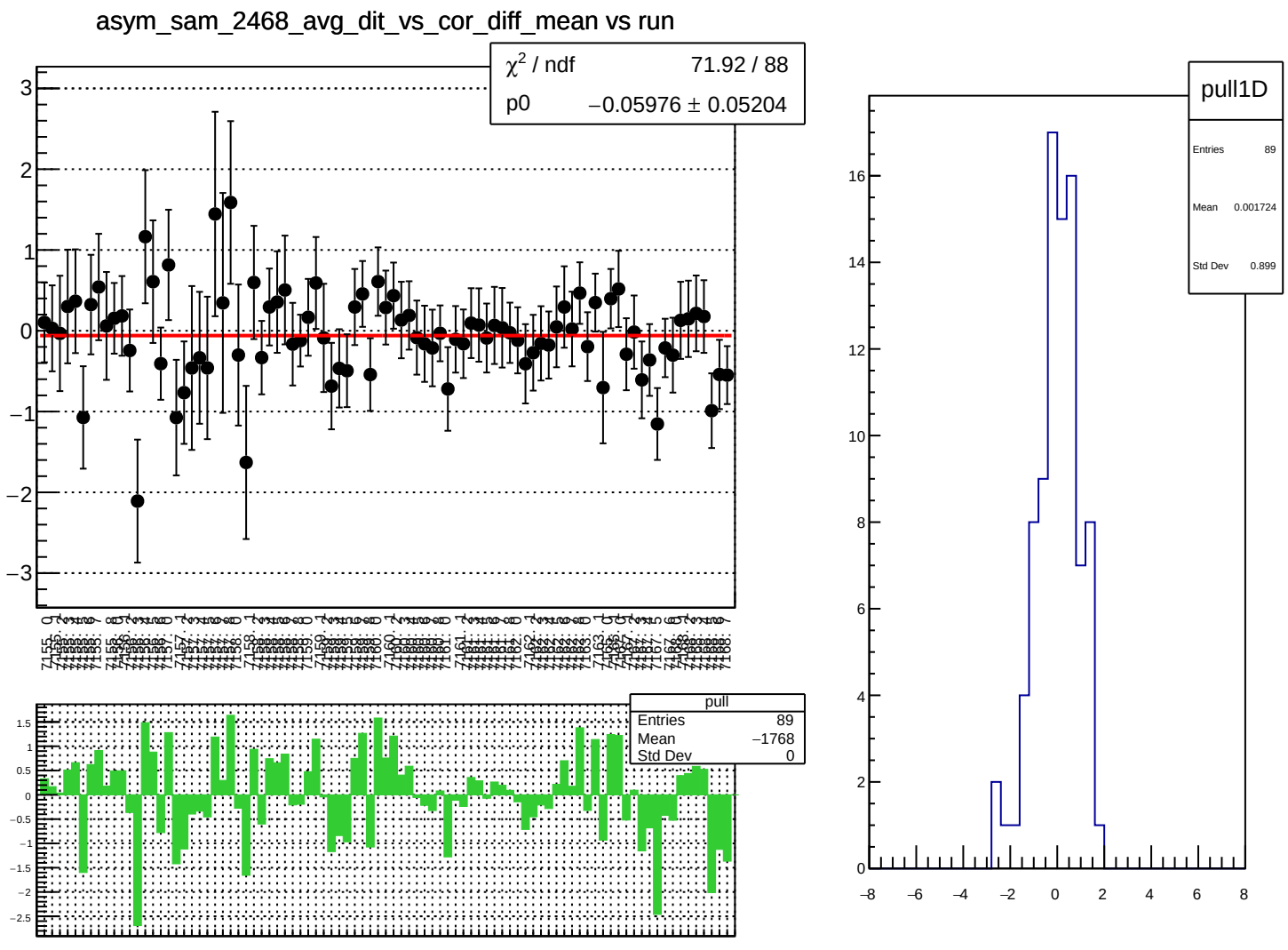

pull1D
Entries 89
Mean −0.01813
Std Dev 0.862

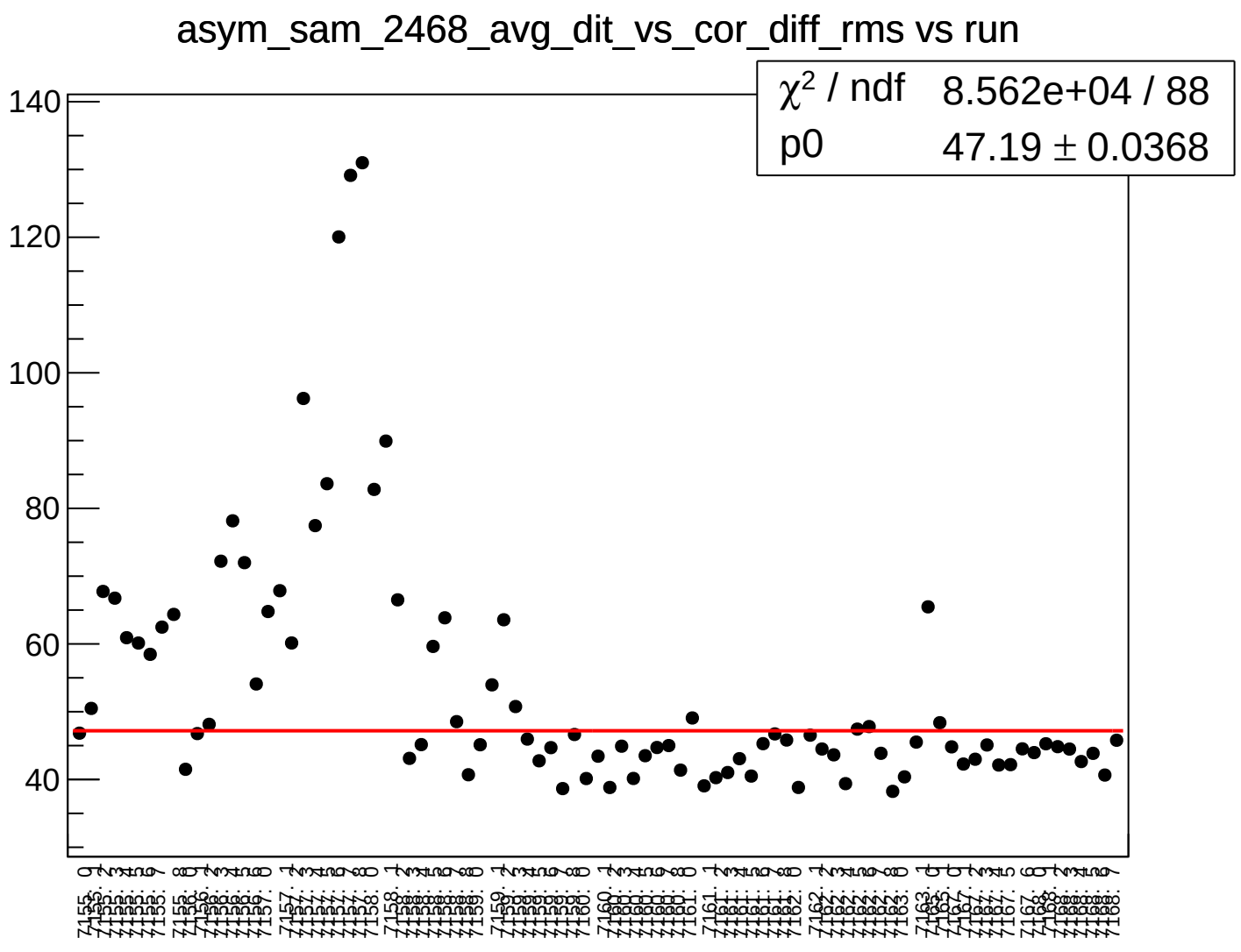

asym_sam_2468_avg_rms vs run
χ² / ndf 2845 / 88
p0 615.9 ± 0.4686
720
700
680
660
640
620
600
580
560
540

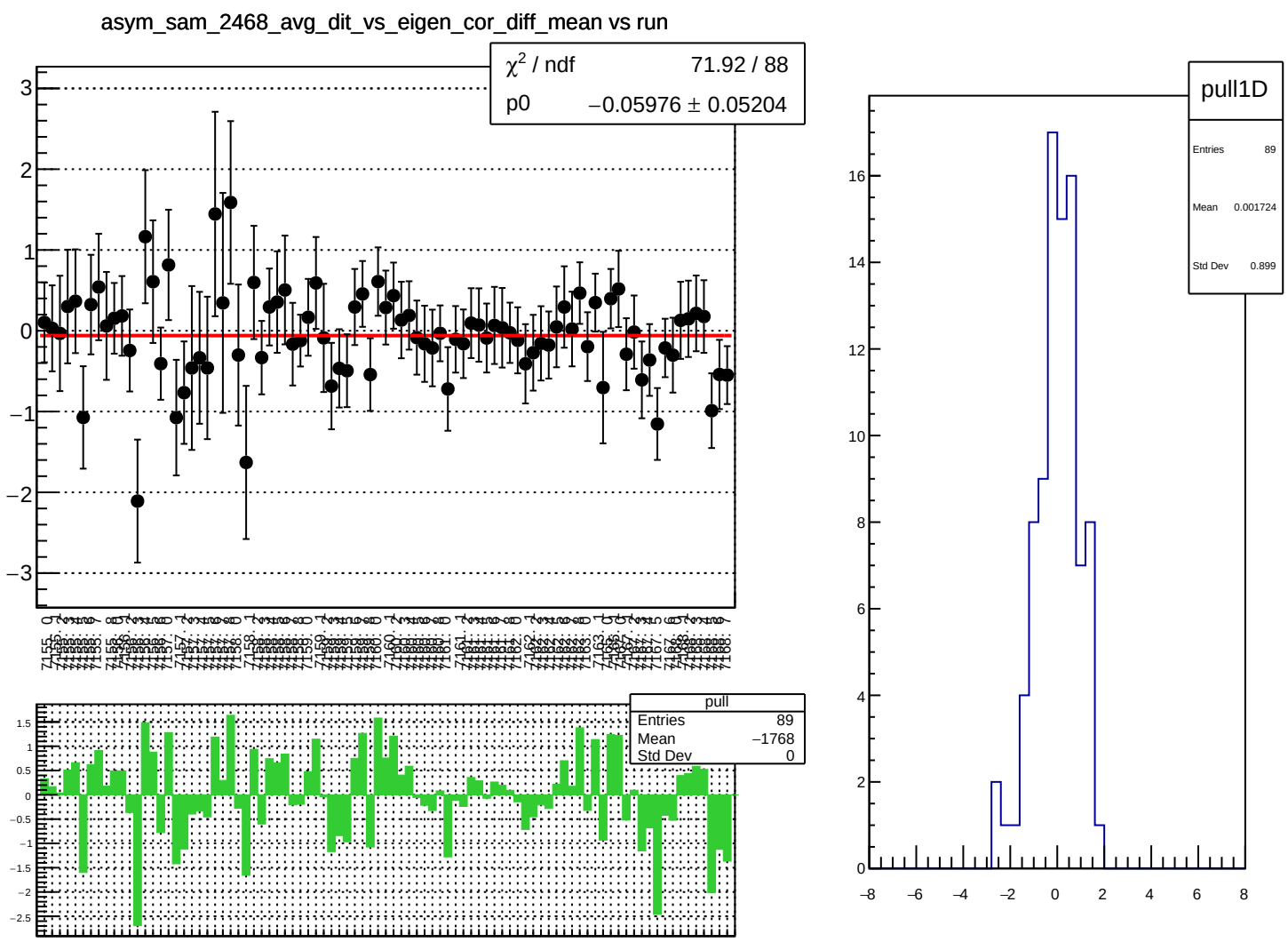

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 89.85 / 88
p0 −6.124e−15 ± 2.283e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 89
Mean 53.54
Std Dev 29.05
3
2
1
0
−1
−2
−3

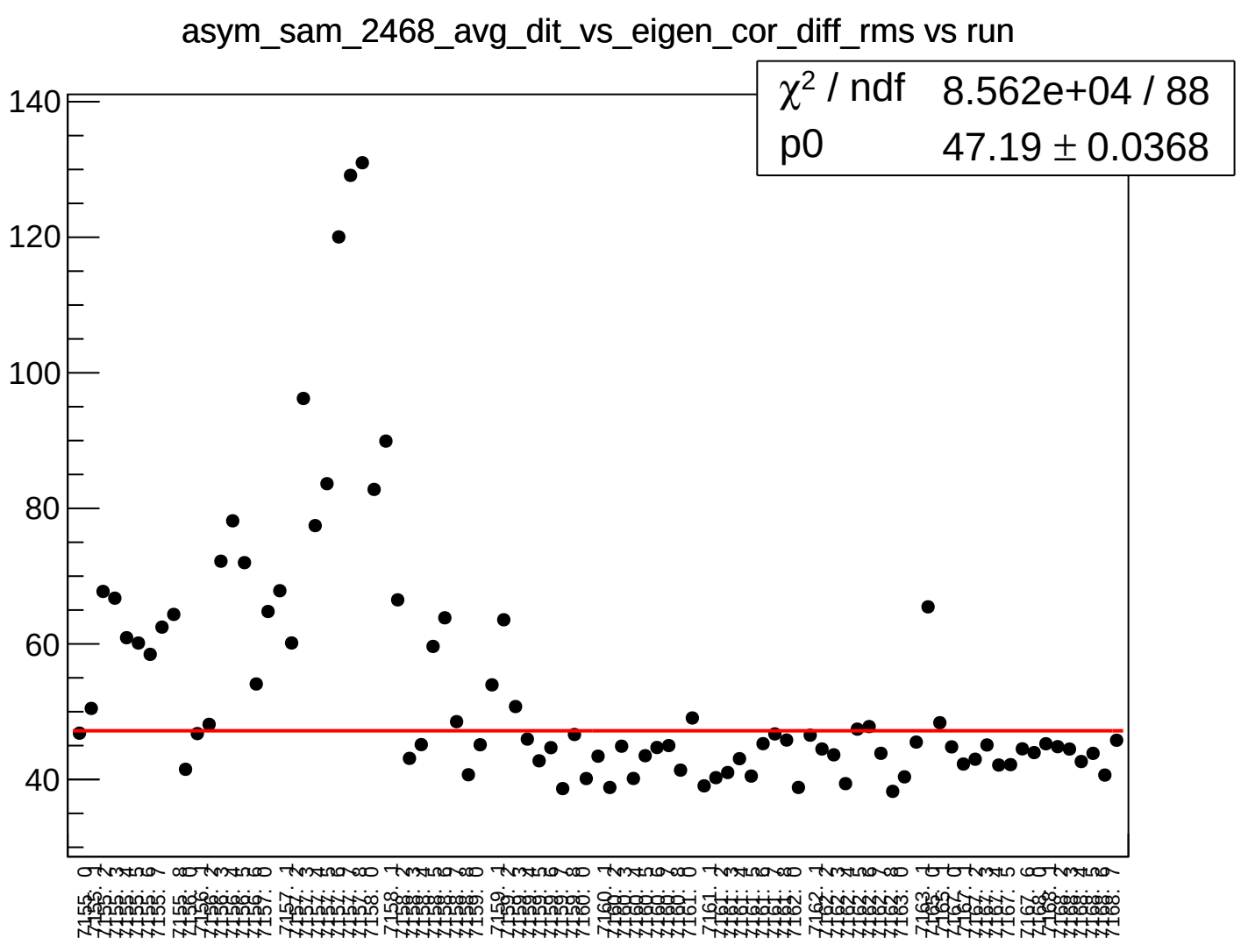

pull1D
Entries 89
Mean −0.06109
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

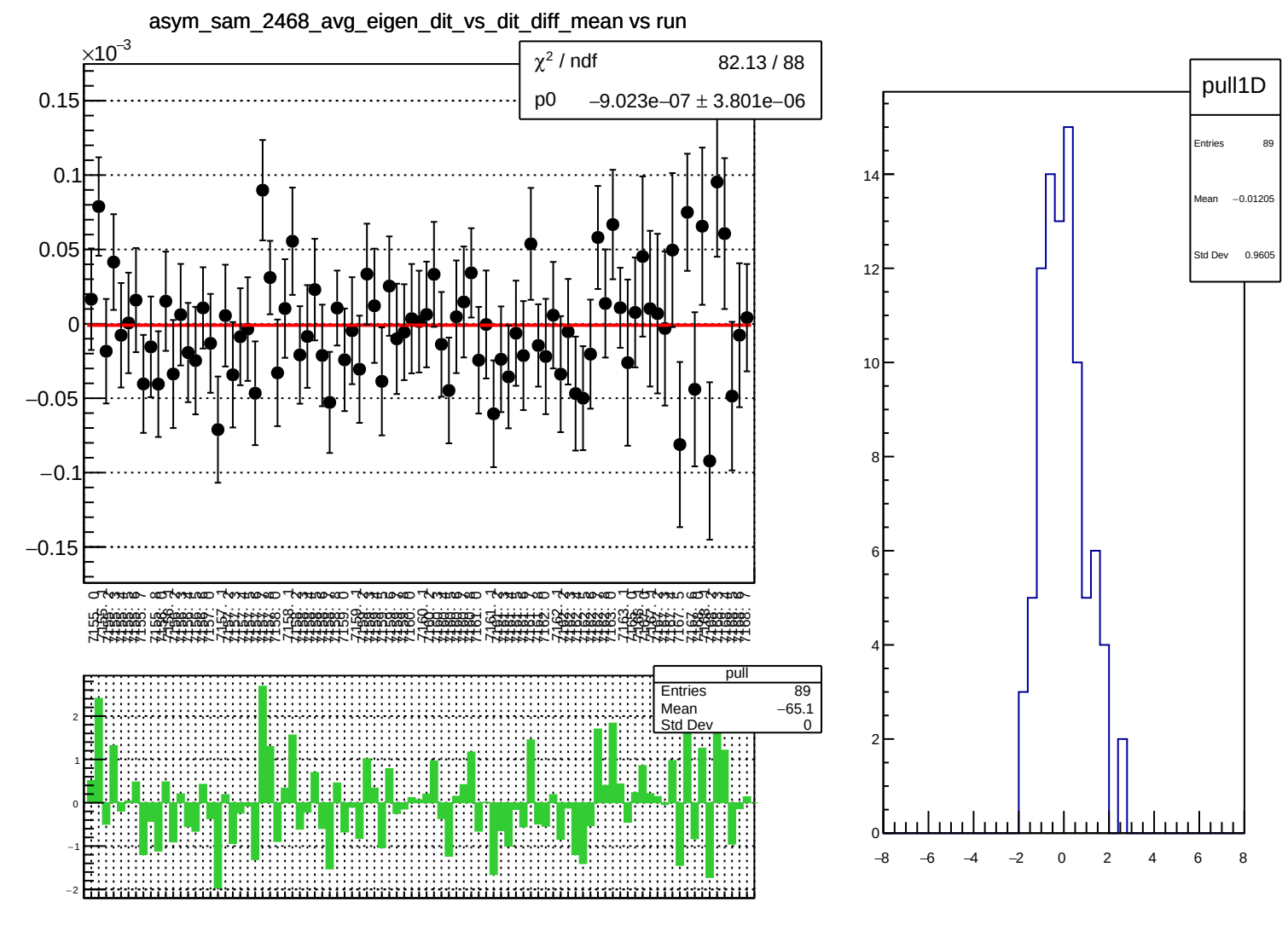

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.235e+06 / 88
p0 1.135e−11 ± 1.614e−14
0.05
0.04
0.03
0.02
0.01
0

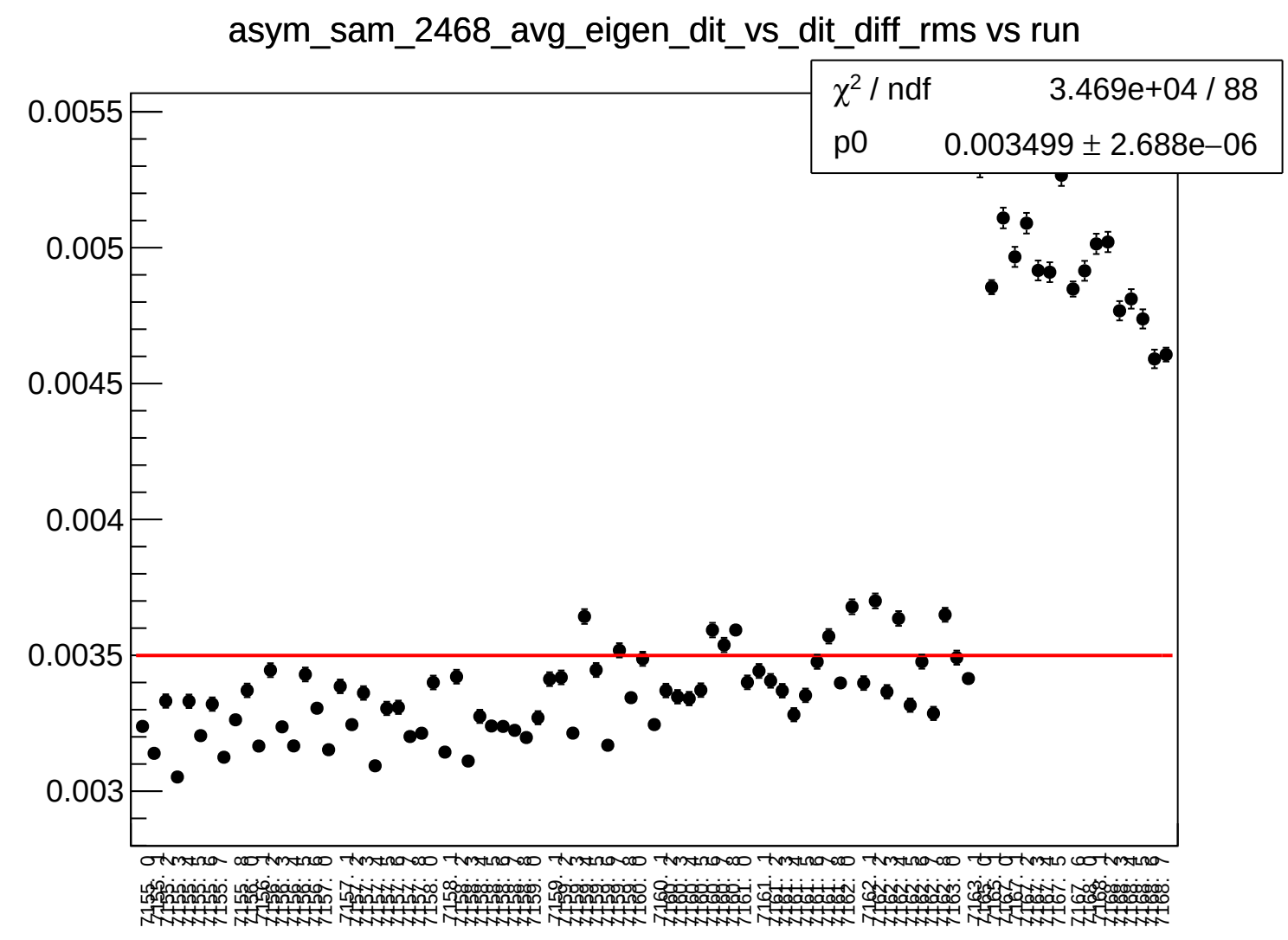

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 71.92 / 88
p0 −0.05976 ± 0.05204
pull
Entries 89
Mean −1768
Std Dev 0
pull1D
Entries 89
Mean 0.001724
Std Dev 0.899

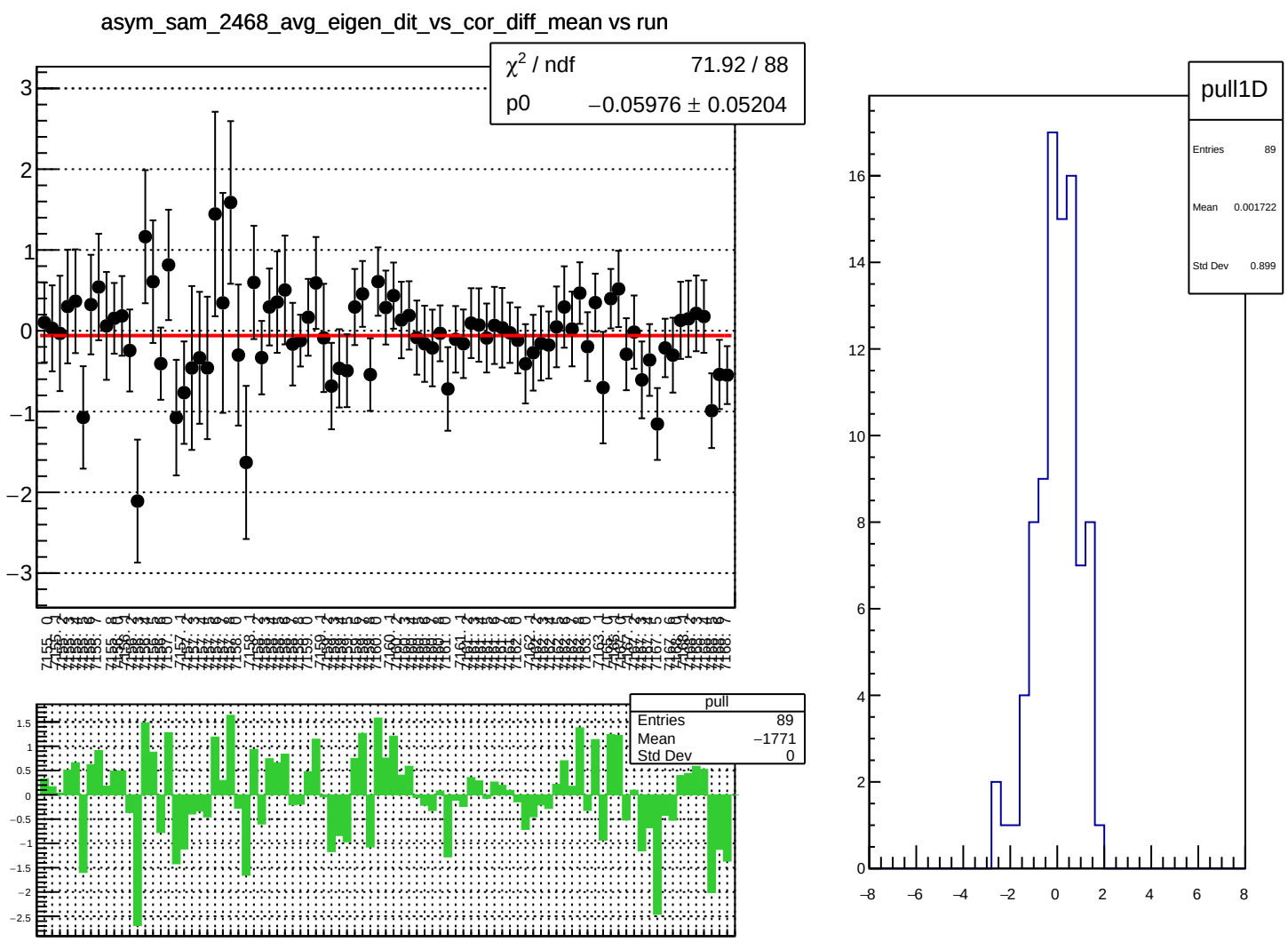

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.562e+04 / 88
p0 47.19 ± 0.0368
140
120
100
80
60
40

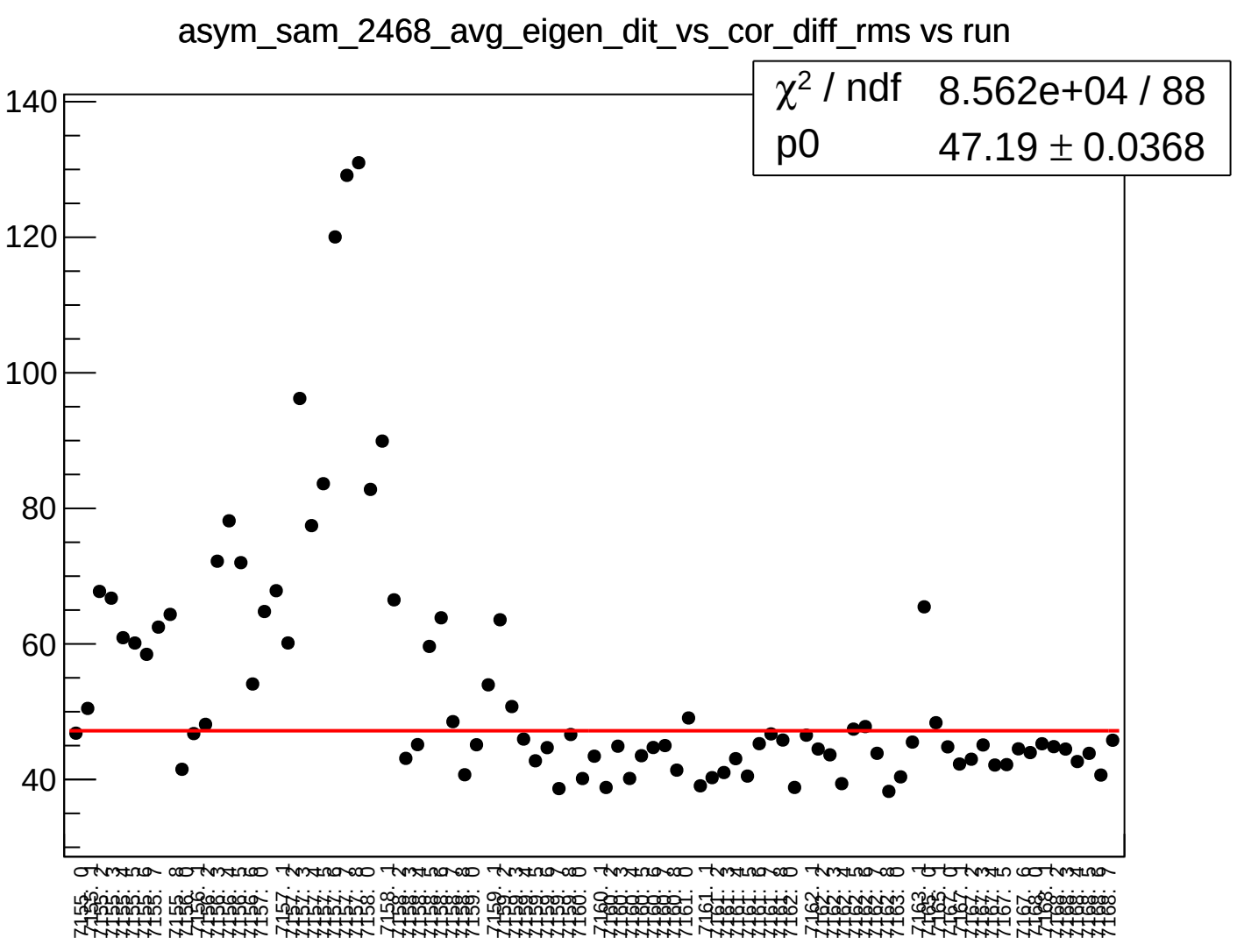

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.92 / 88
p0 −0.05976 ± 0.05204
pull
Entries 89
Mean −1768
Std Dev 0
pull1D
Entries 89
Mean 0.001724
Std Dev 0.899

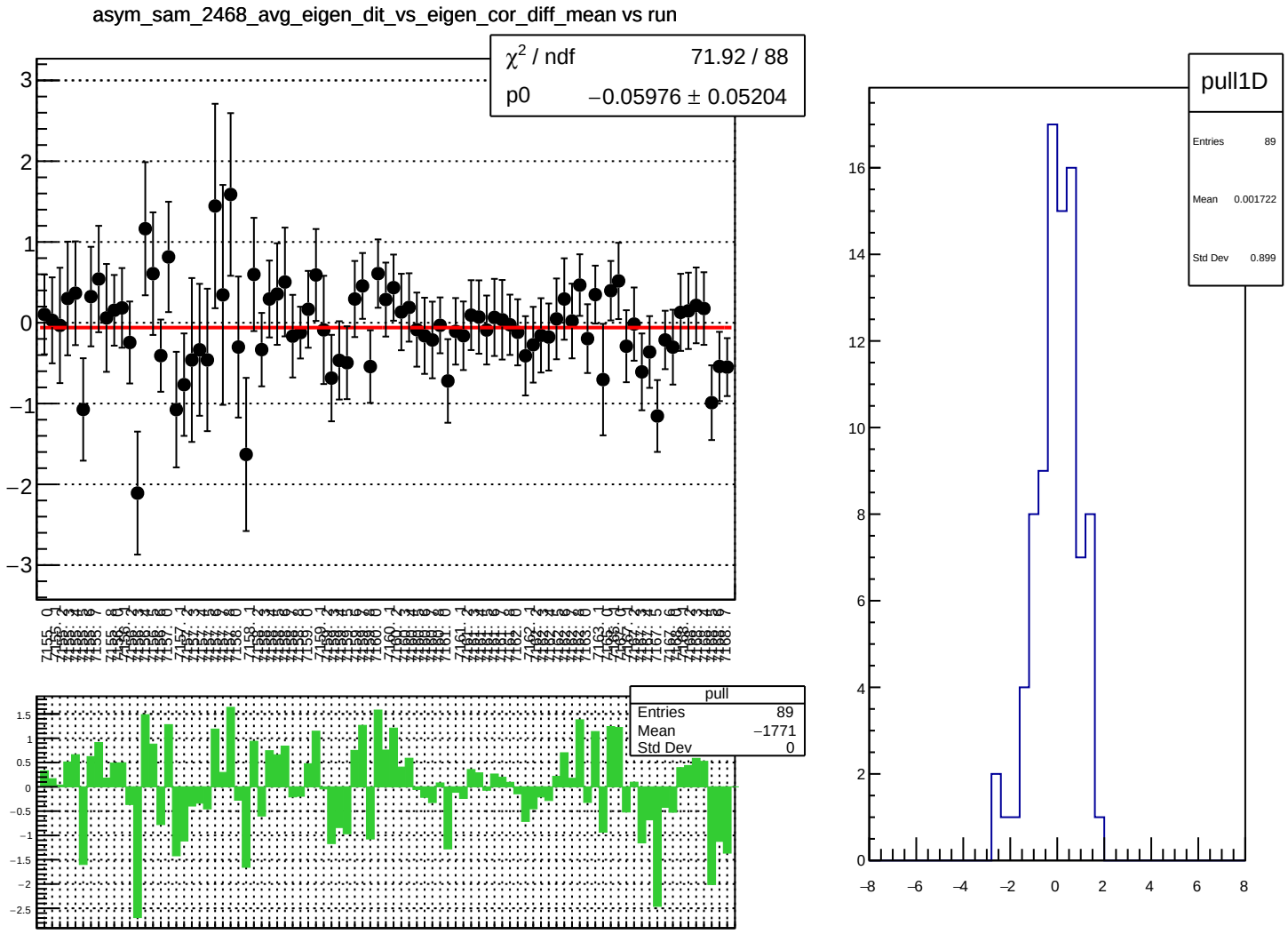

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.562e+04 / 88
p0 47.19 ± 0.0368
140
120
100
80
60
40

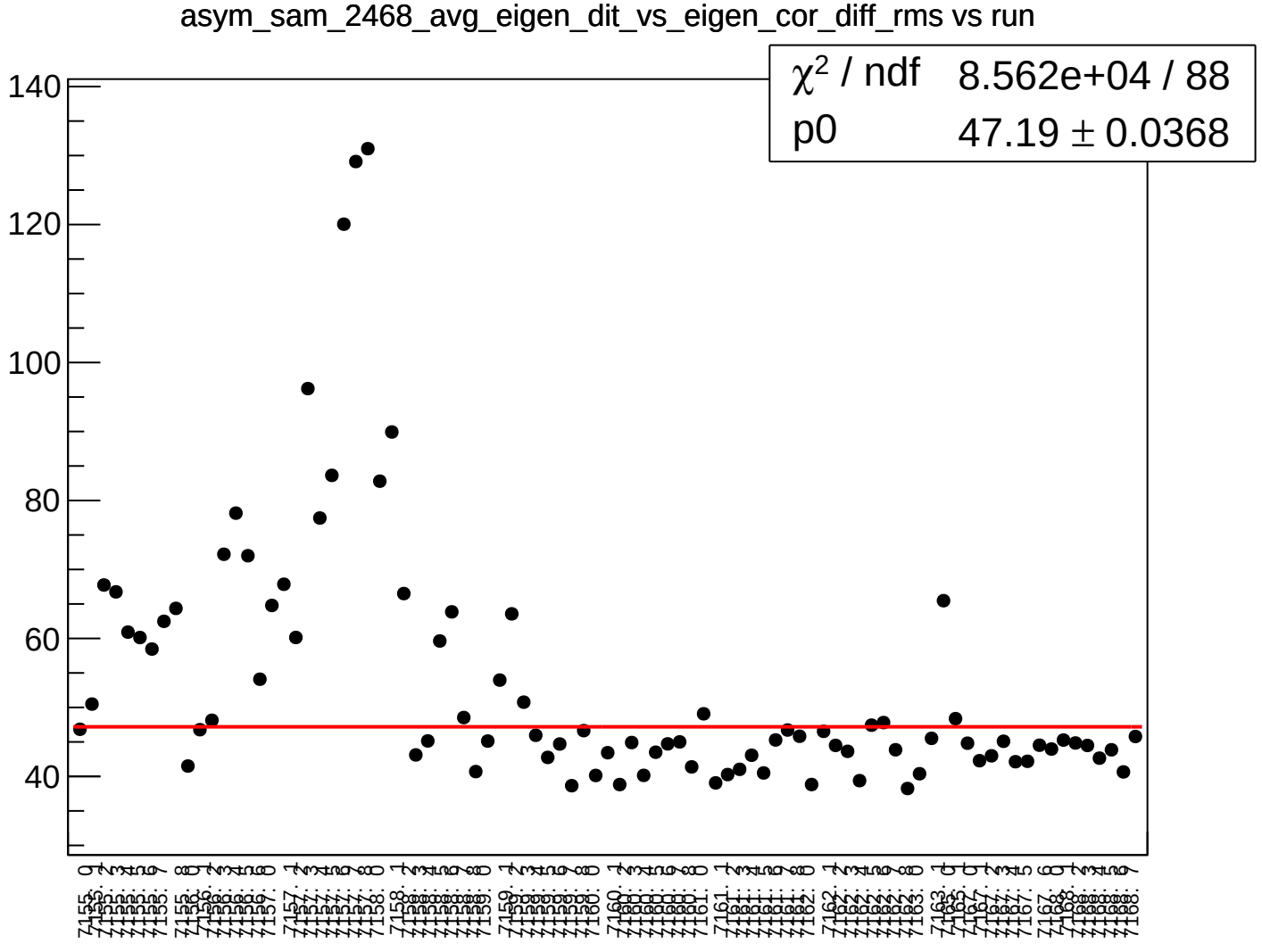

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 82.13 / 88
p0 −9.023e−07 ± 3.801e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 89
Mean −65.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean −0.01205
Std Dev 0.9605
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

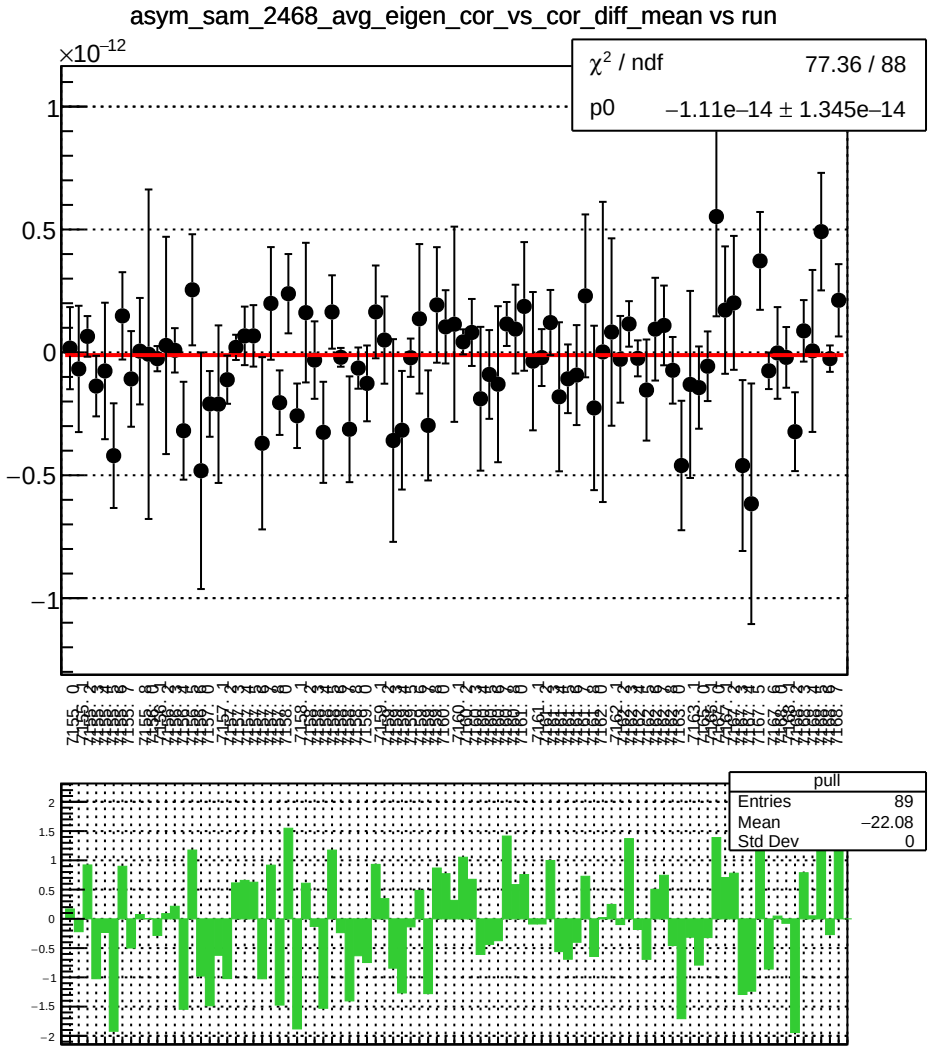

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.469e+04 / 88
p0 0.003499 ± 2.688e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

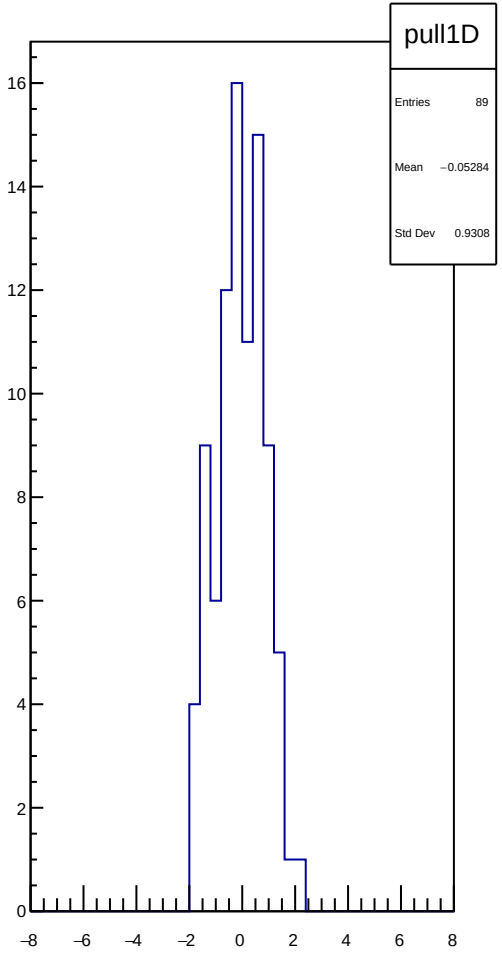

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 71.92 / 88
p0 −0.05976 ± 0.05204
pull
Entries 89
Mean −1771
Std Dev 0
pull1D
Entries 89
Mean 0.001722
Std Dev 0.899

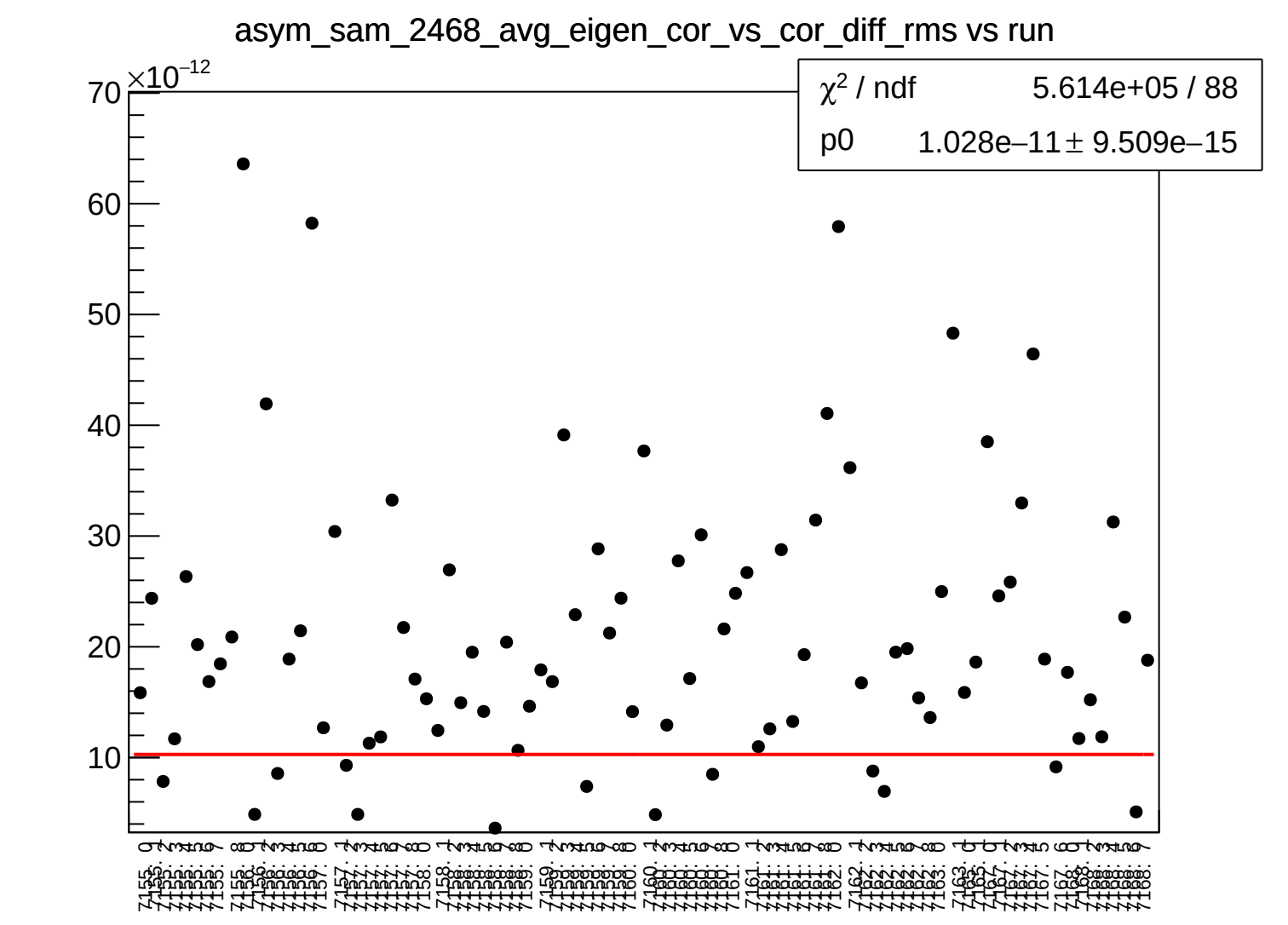

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 8.562e+04 / 88
p0 47.19 ± 0.0368
140
120
100
80
60
40

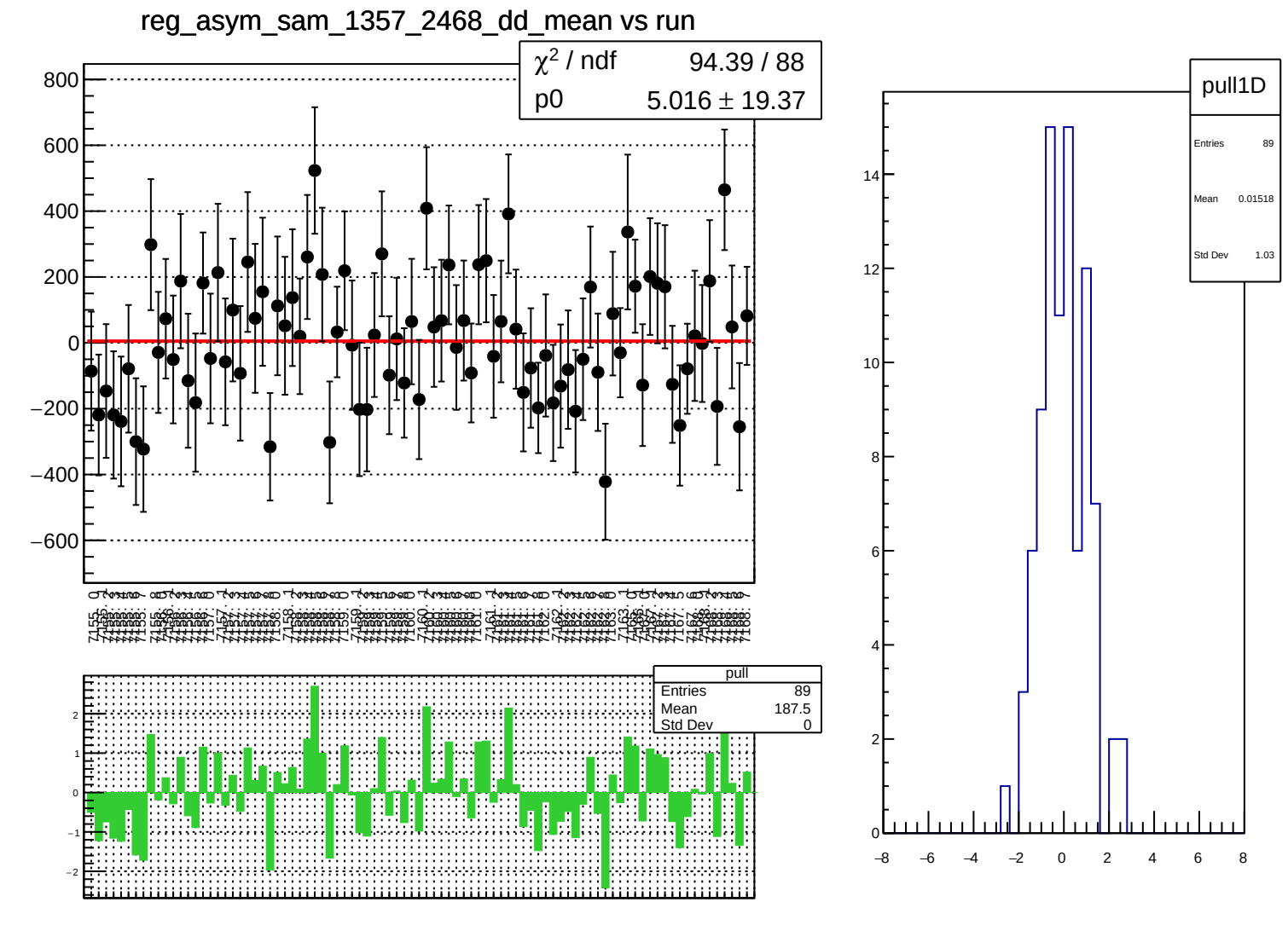

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 71.92 / 88
p0 −0.05976 ± 0.05204
pull
Entries 89
Mean −1771
Std Dev 0
pull1D
Entries 89
Mean 0.001722
Std Dev 0.899

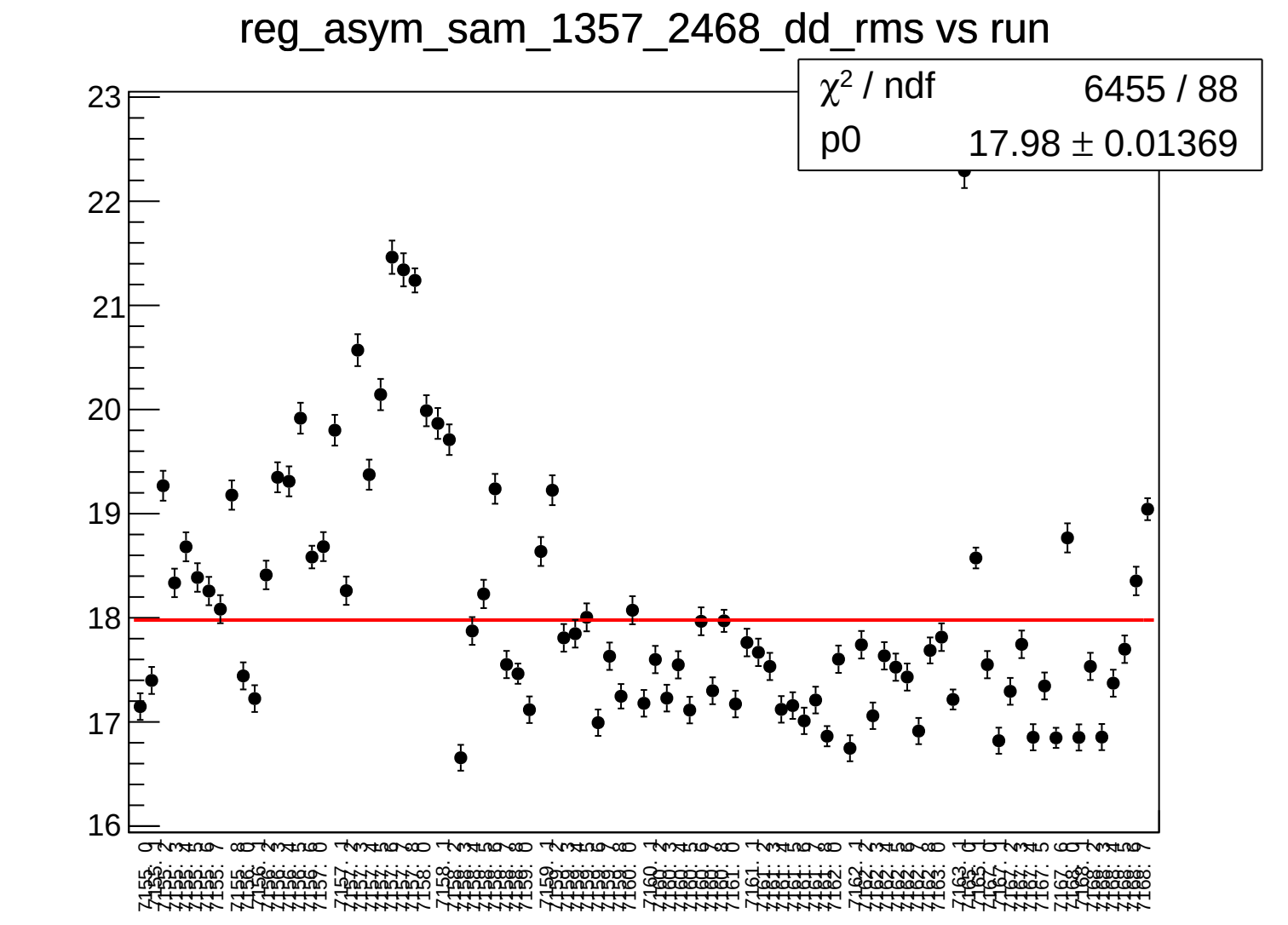

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.562e+04 / 88
p0 47.19 ± 0.0368
140
120
100
80
60
40

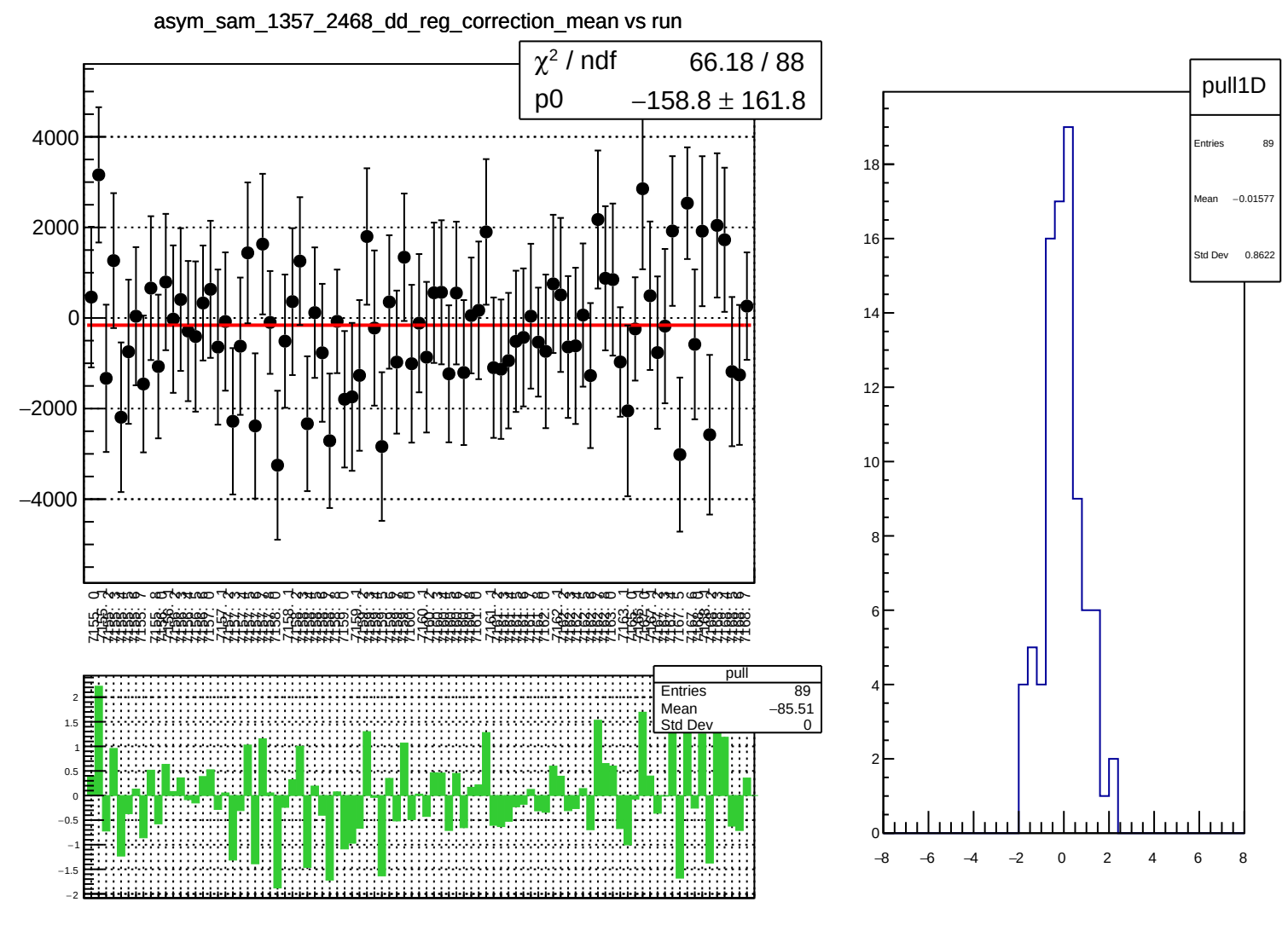

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.36 / 88
p0 −1.11e−14 ± 1.345e−14
pull
Entries 89
Mean −22.08
Std Dev 0

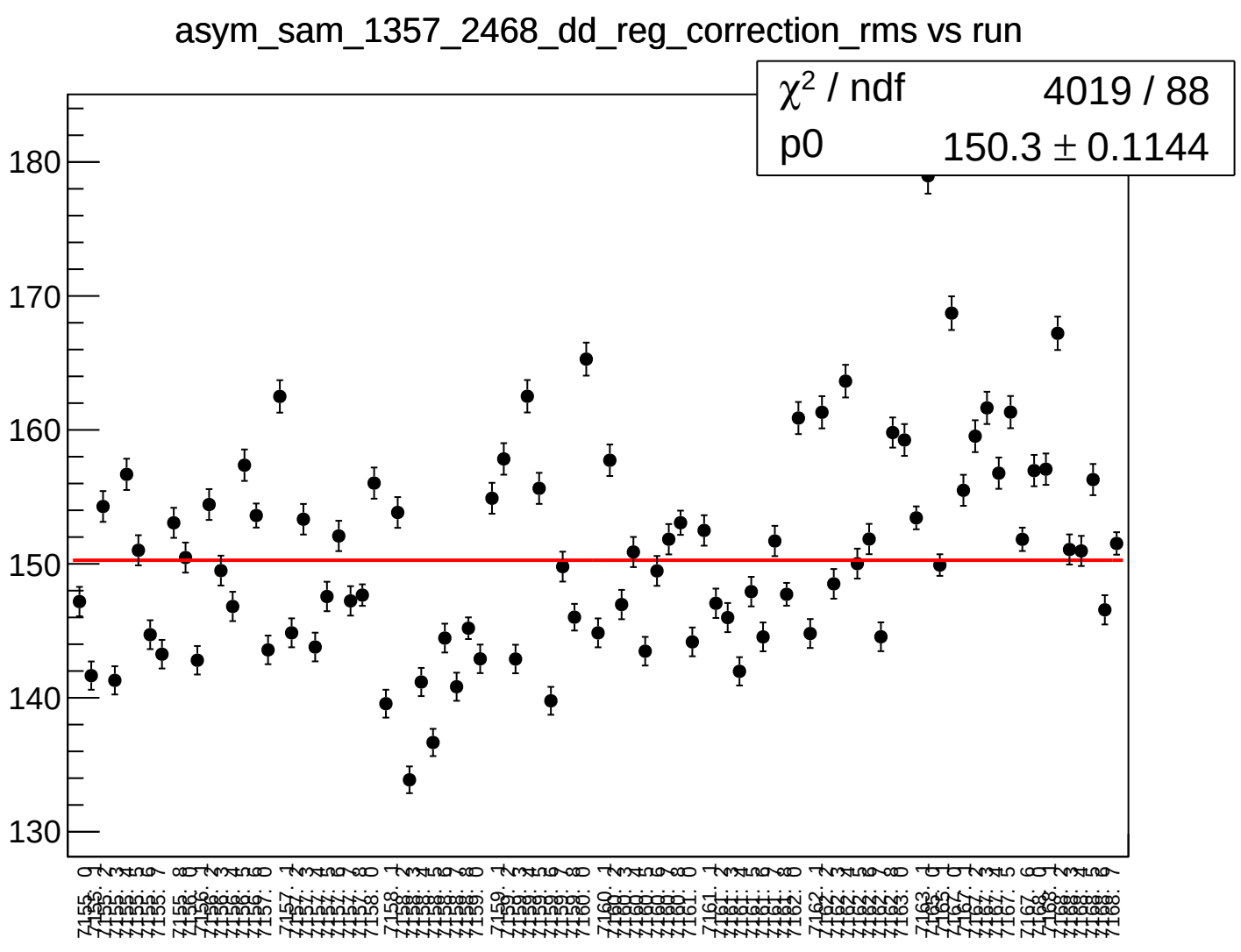

pull1D
Entries 89
Mean −0.05284
Std Dev 0.9308

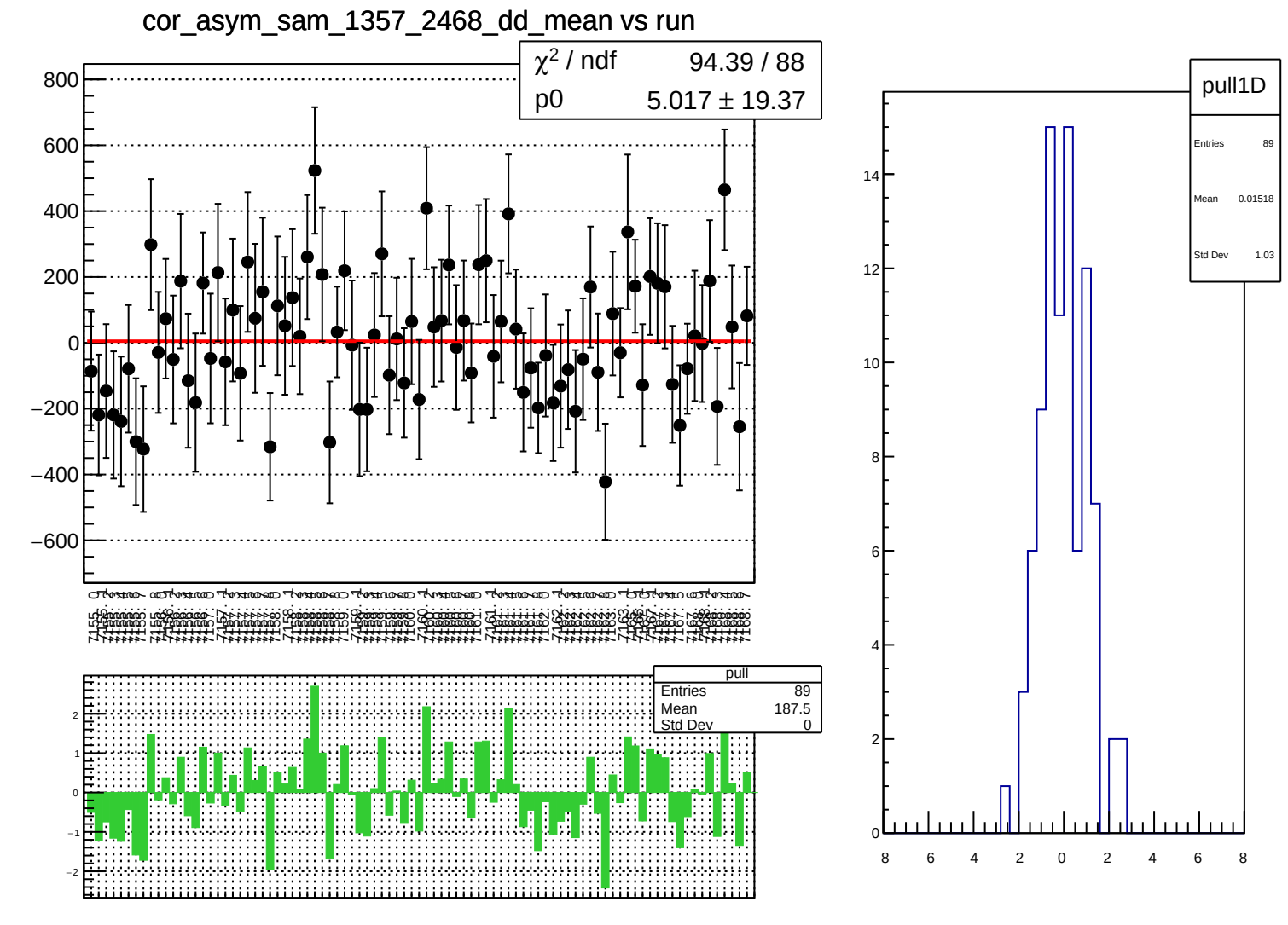

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 5.614e+05 / 88
p0 1.028e−11 ± 9.509e−15

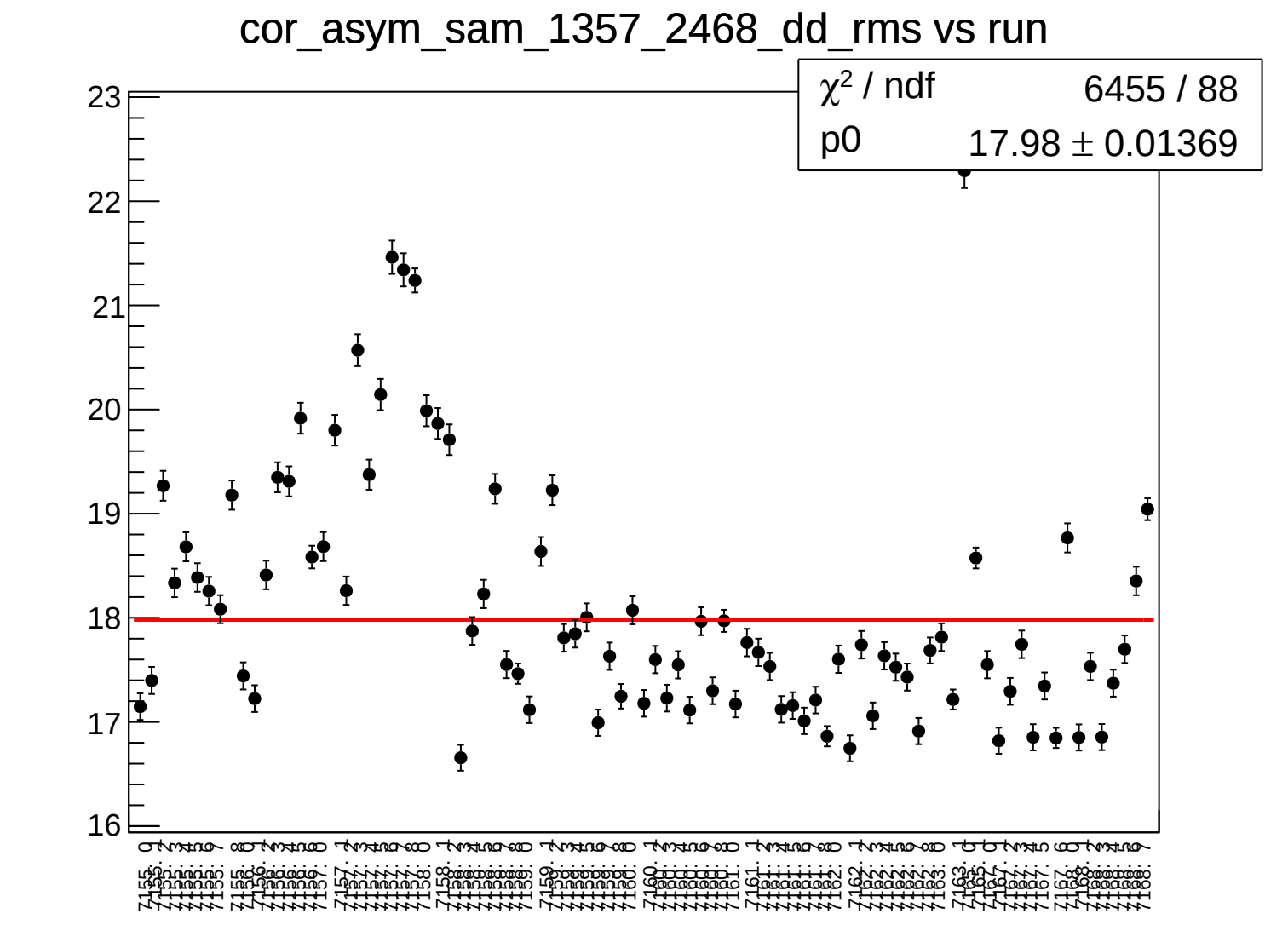

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.39 / 88
p0 5.016 ± 19.37
pull
Entries 89
Mean 187.5
Std Dev 0
pull1D
Entries 89
Mean 0.01518
Std Dev 1.03

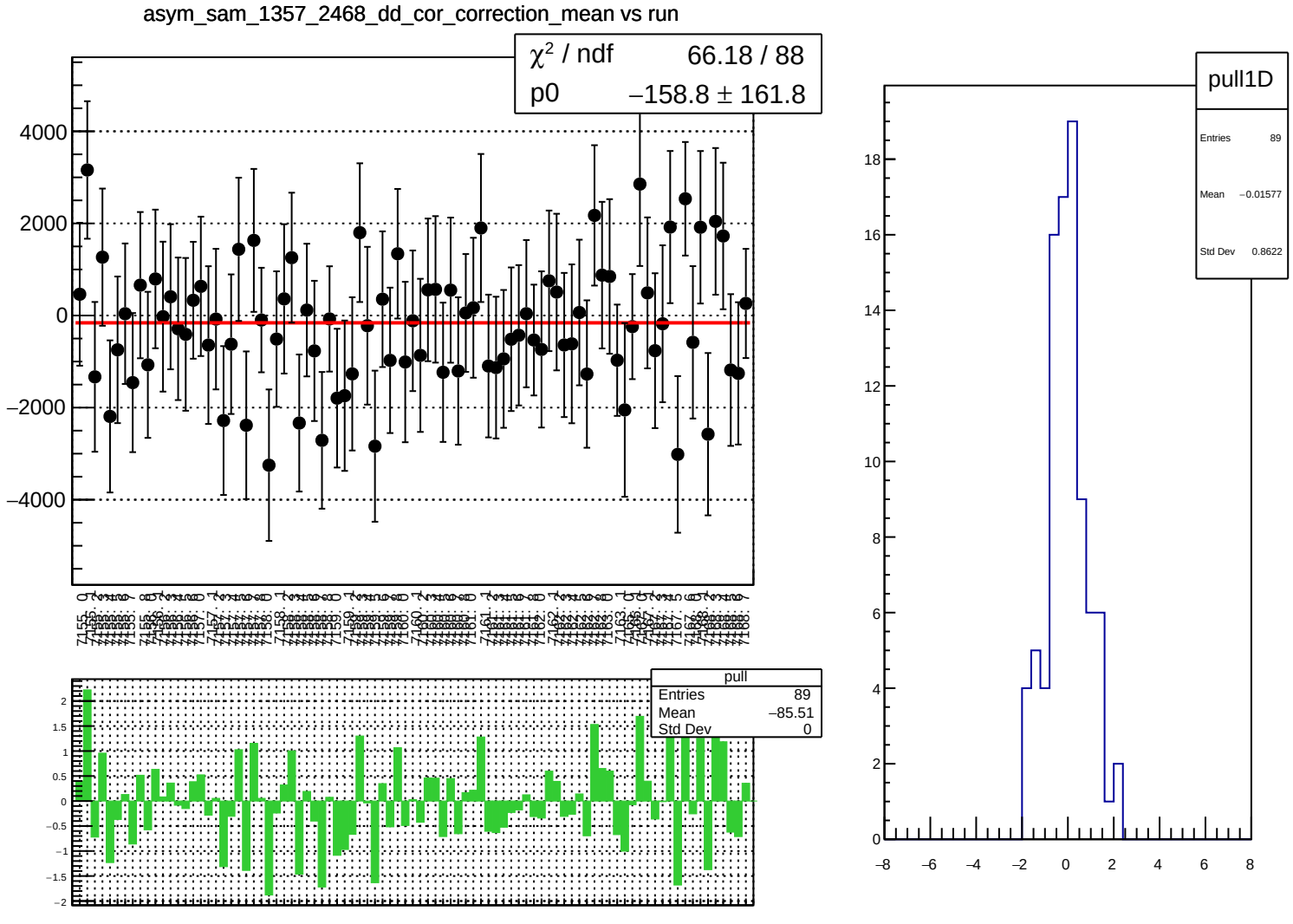

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6455 / 88
p0 17.98 ± 0.01369
23
22
21
20
19
18
17
16

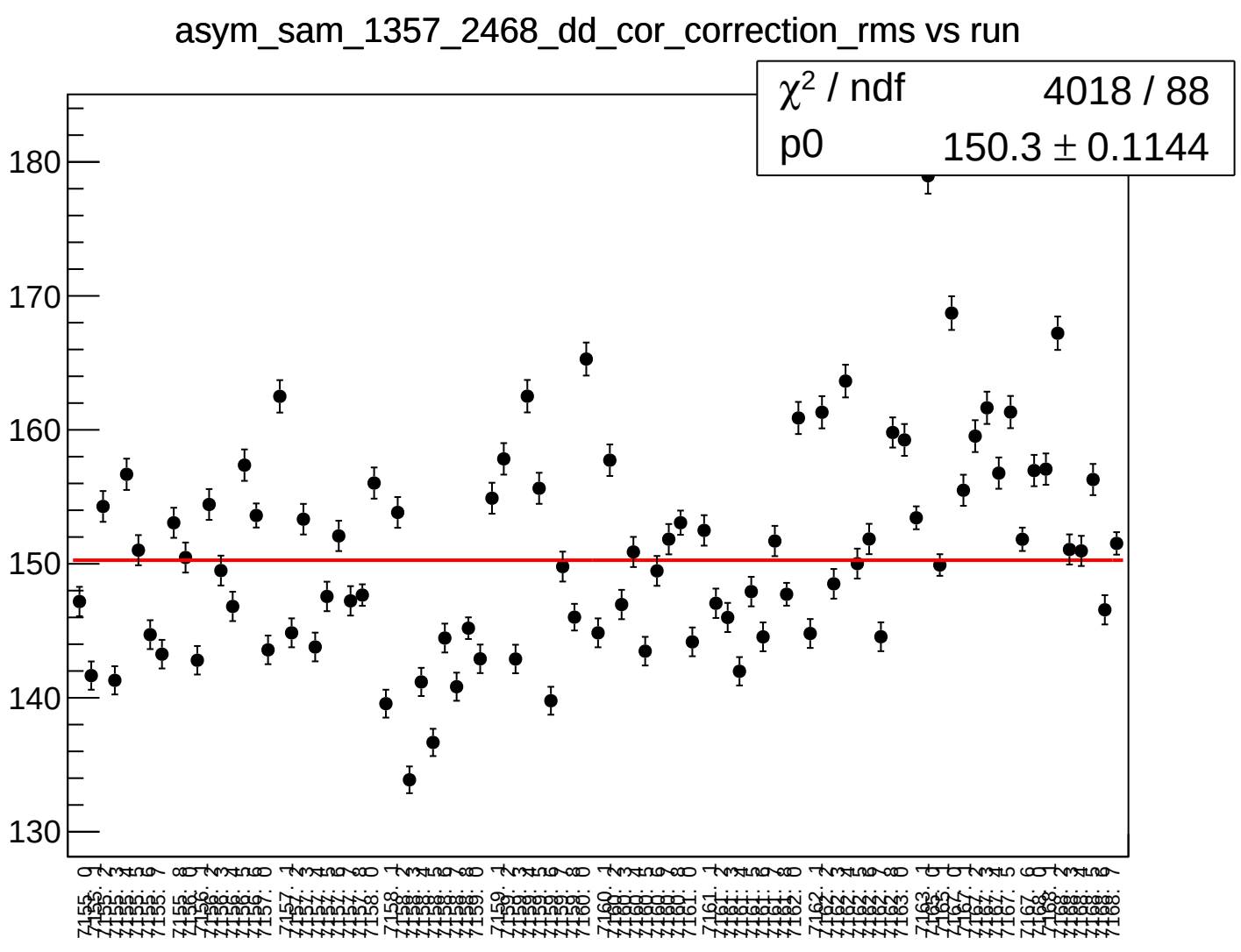

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 66.18 / 88
p0 −158.8 ± 161.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −85.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01577
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

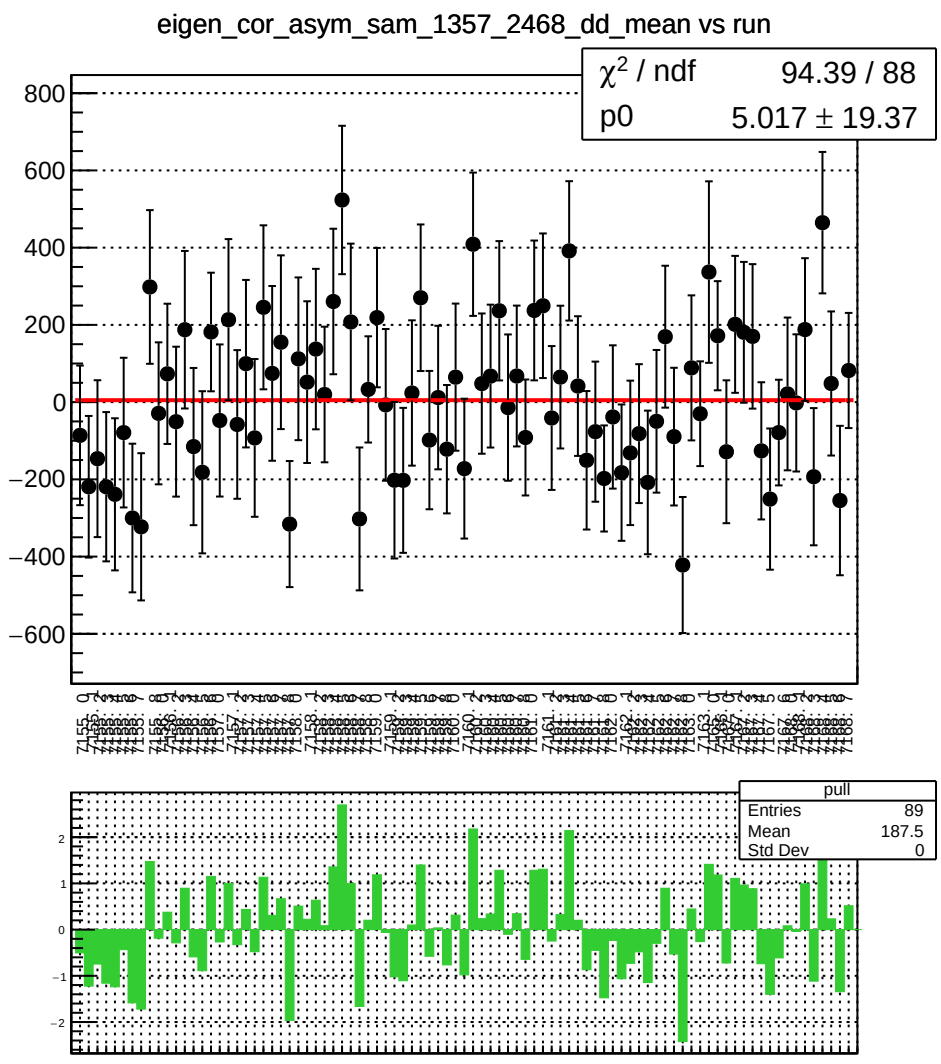

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4019 / 88
p0 150.3 ± 0.1144
180
170
160
150
140
130

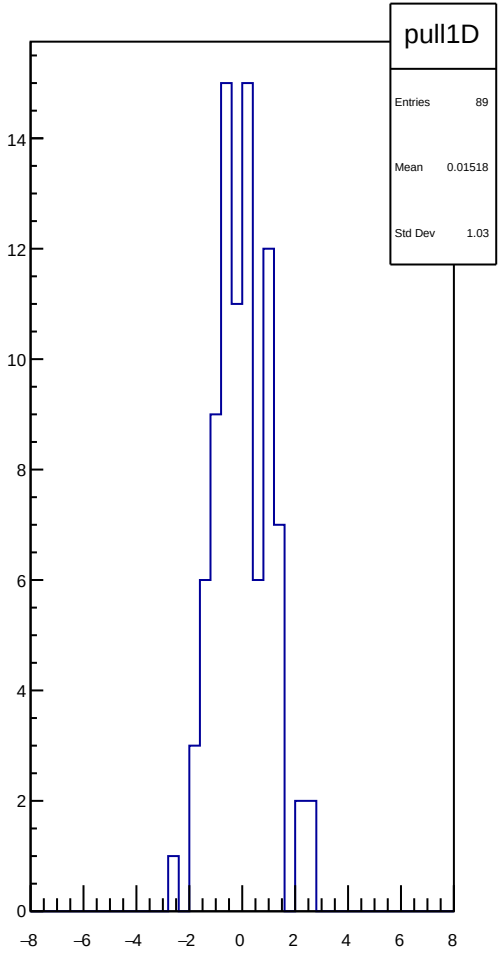

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.39 / 88
p0 5.017 ± 19.37
pull
Entries 89
Mean 187.5
Std Dev 0
pull1D
Entries 89
Mean 0.01518
Std Dev 1.03

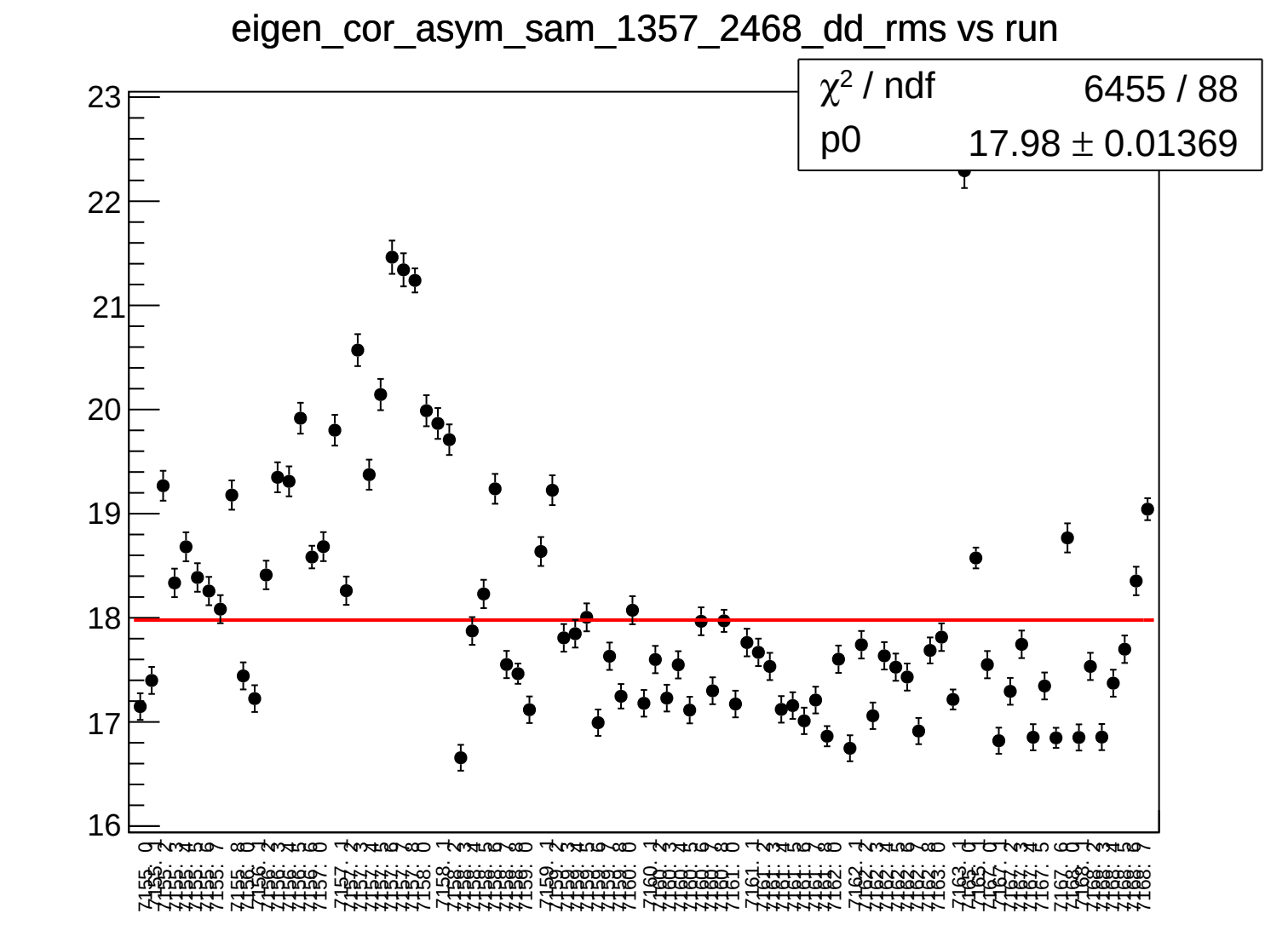

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6455 / 88
p0 17.98 ± 0.01369
23
22
21
20
19
18
17
16

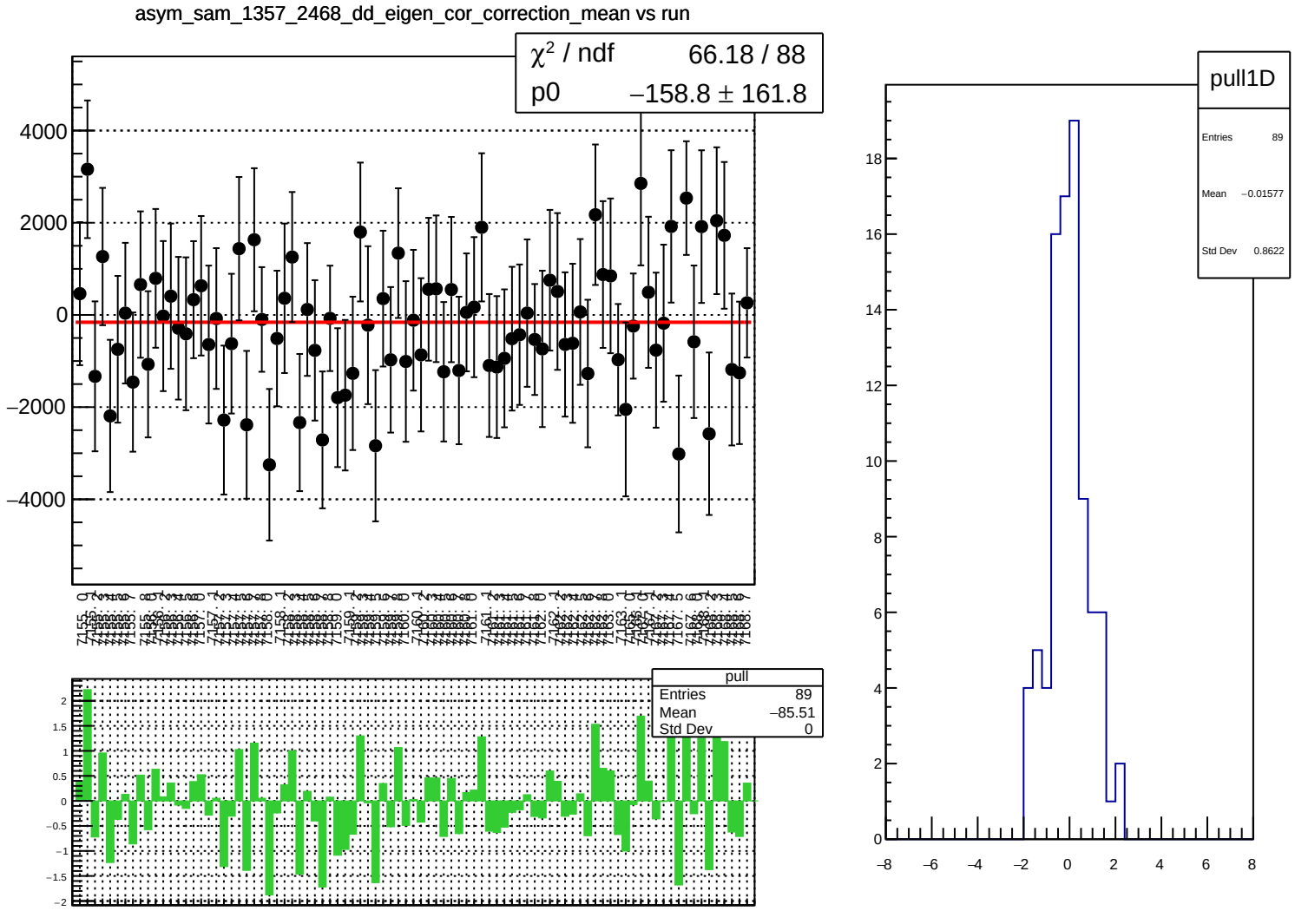

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 66.18 / 88
p0 −158.8 ± 161.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −85.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01577
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

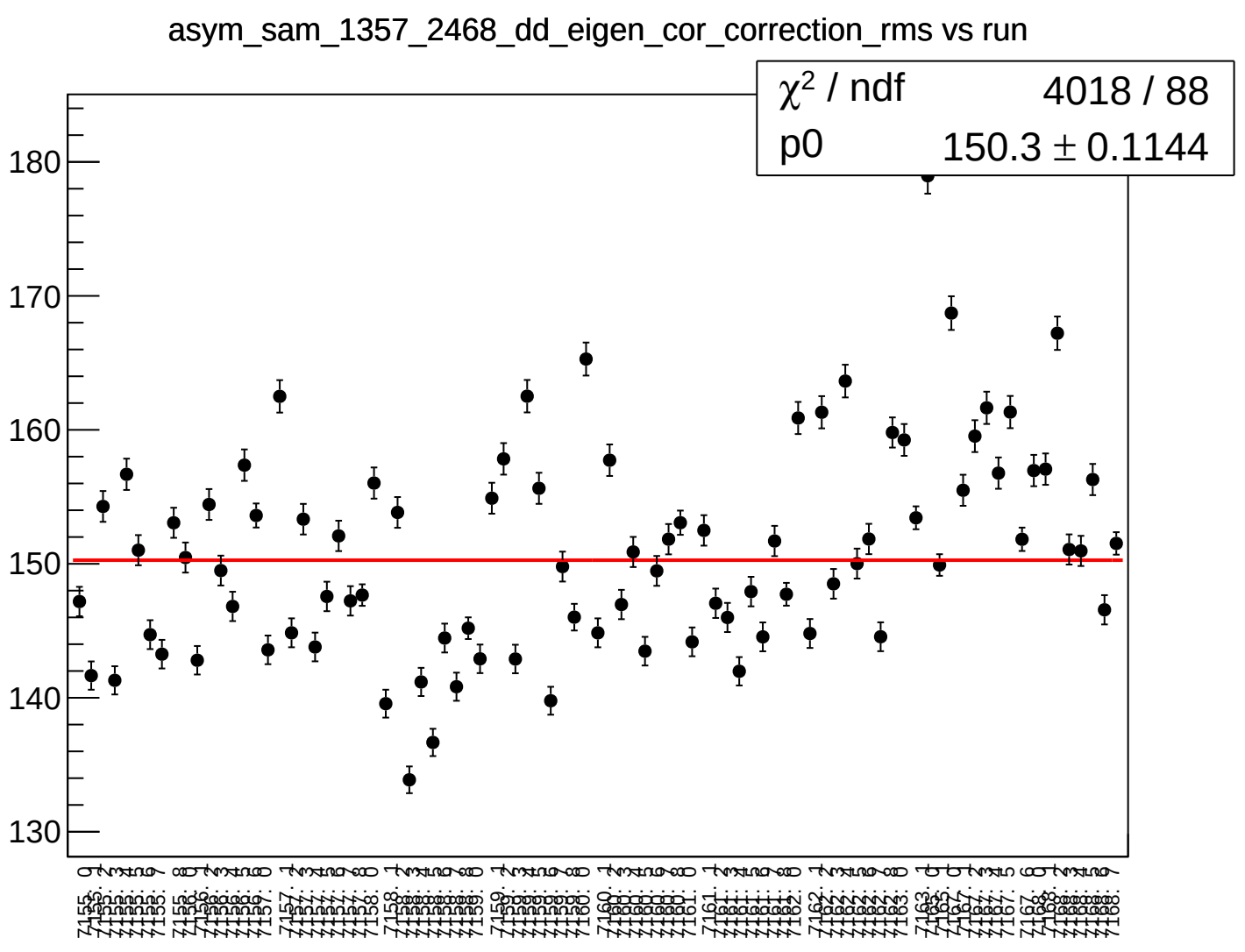

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4018 / 88
p0 150.3 ± 0.1144
180
170
160
150
140
130

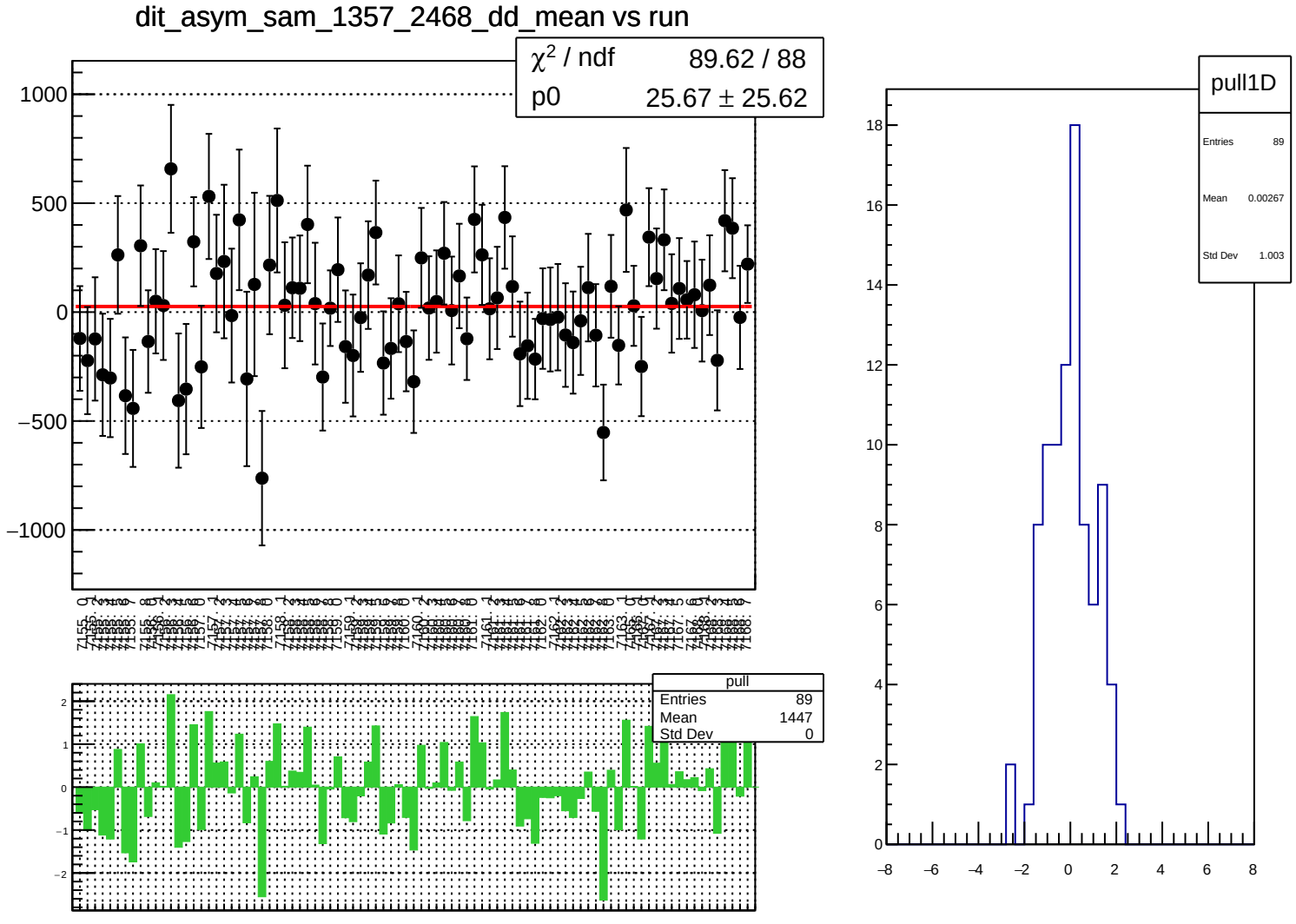

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 94.39 / 88
p0 5.017 ± 19.37
pull
Entries 89
Mean 187.5
Std Dev 0

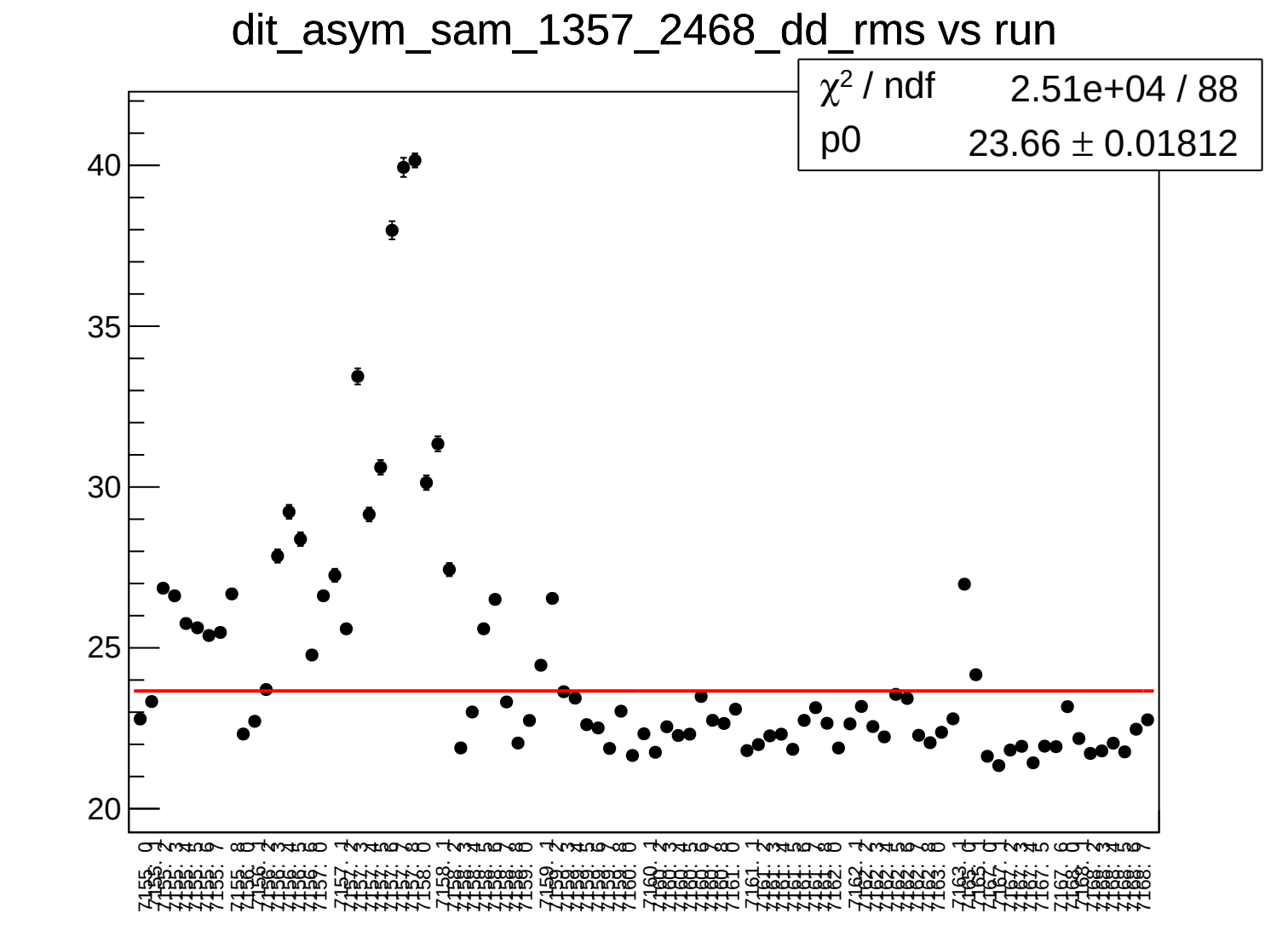

pull1D
Entries 89
Mean 0.01518
Std Dev 1.03

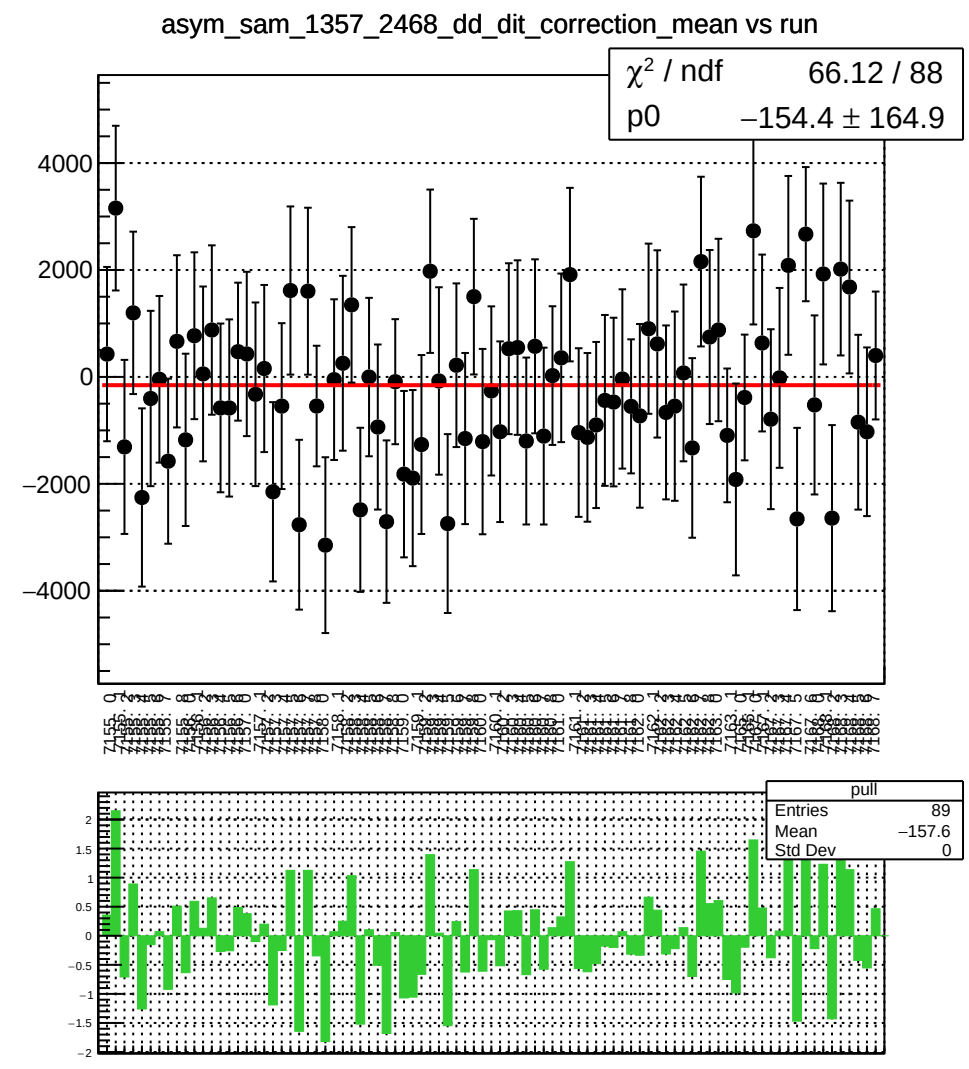

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 6455 / 88
p0 17.98 ± 0.01369
23
22
21
20
19
18
17
16

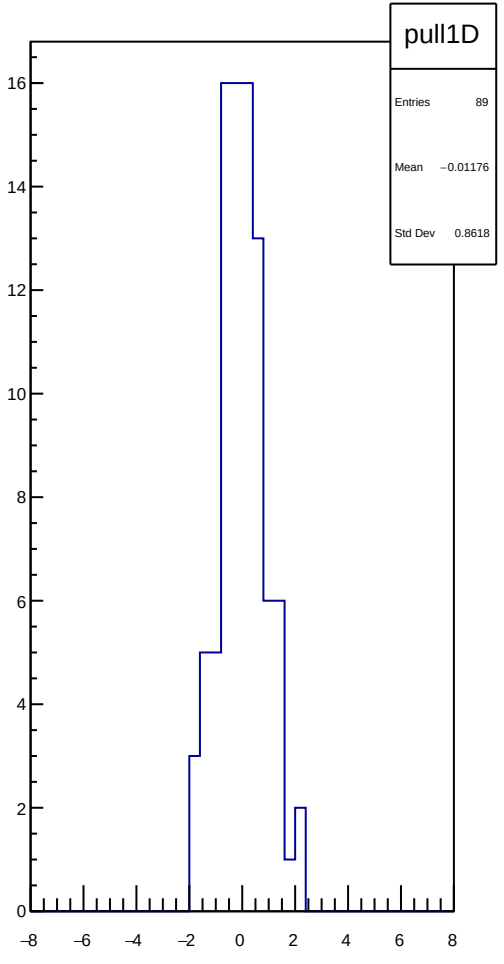

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 66.18 / 88
p0 −158.8 ± 161.8
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −85.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01577
Std Dev 0.8622
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

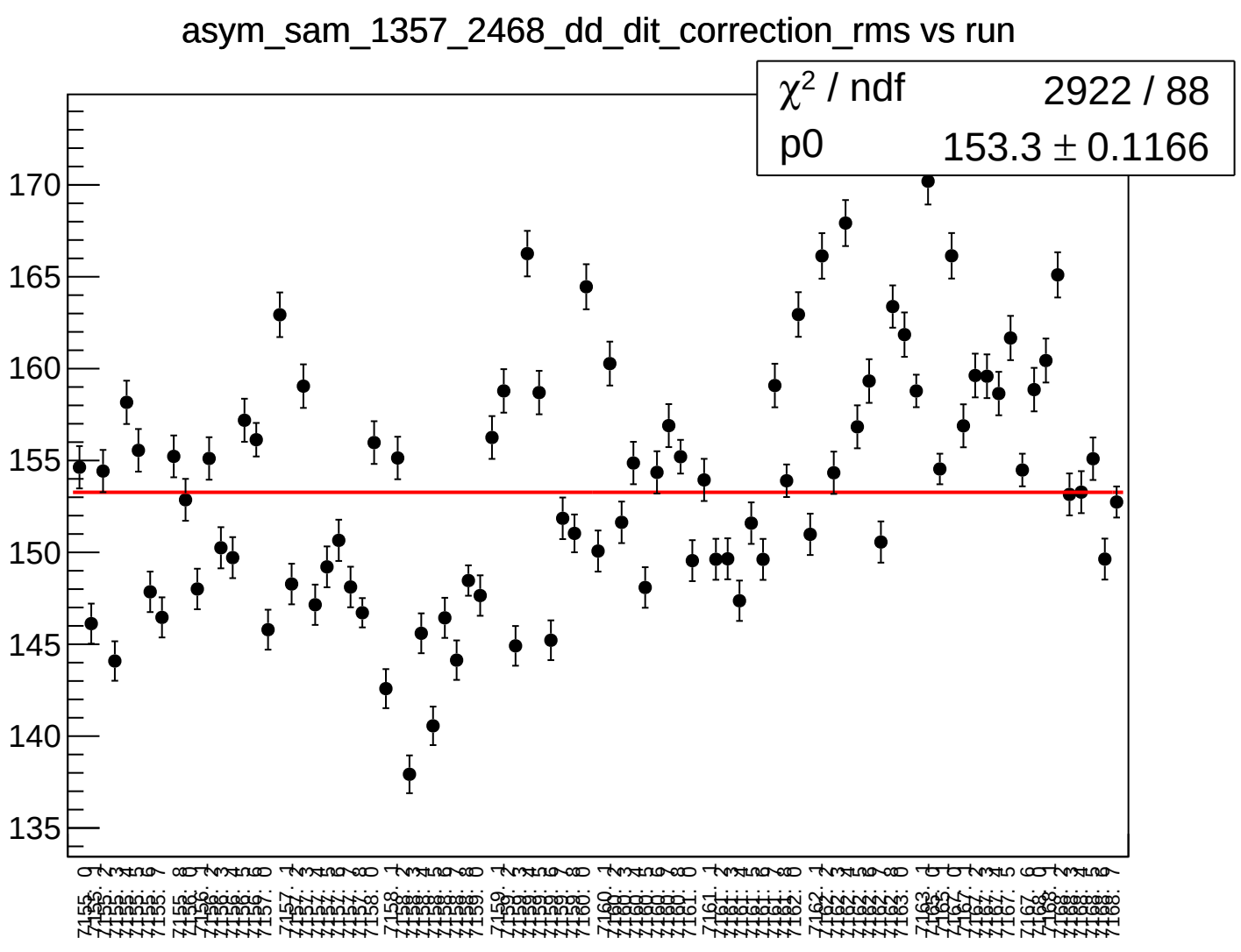

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4018 / 88
p0 150.3 ± 0.1144
180
170
160
150
140
130

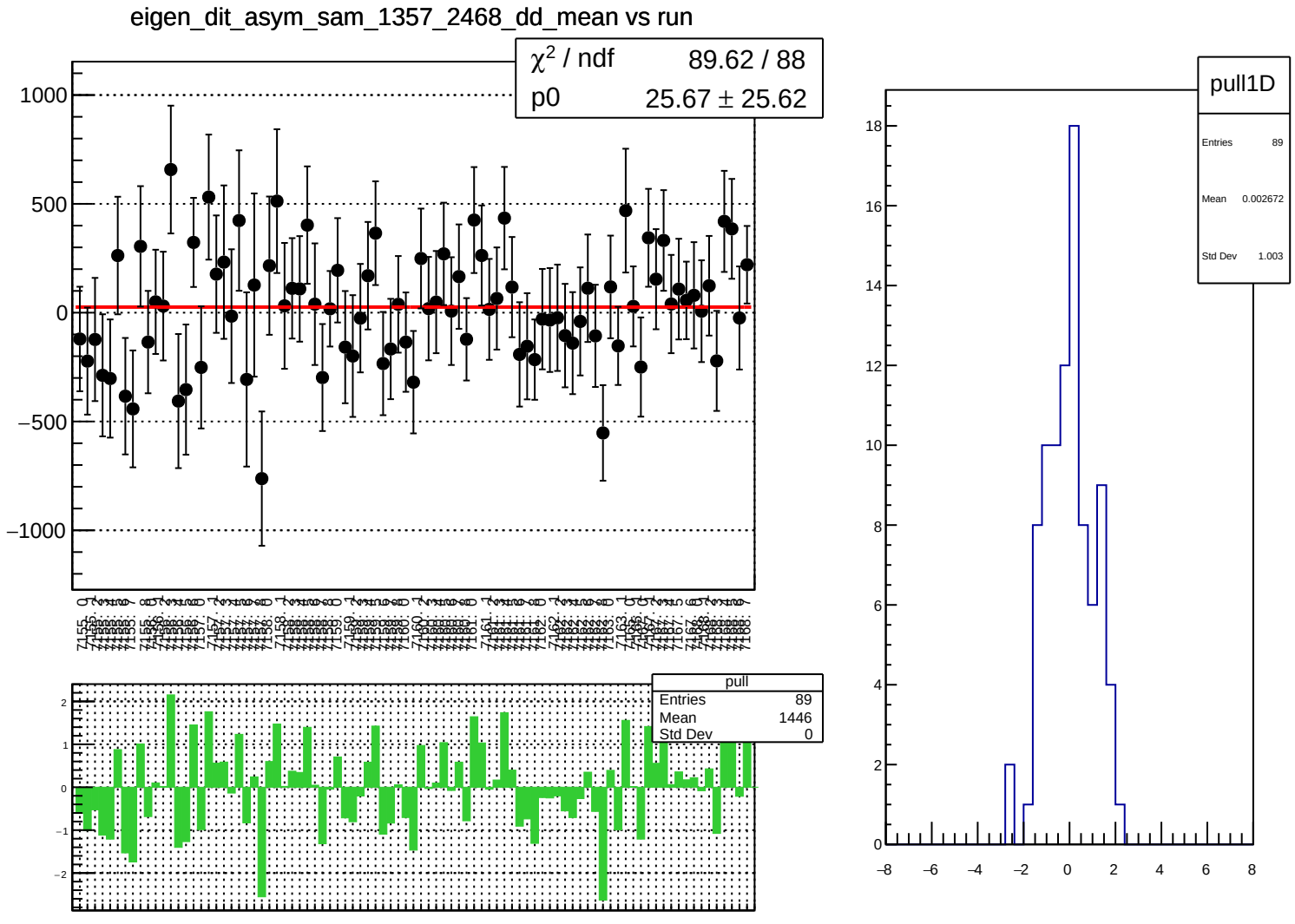

dit_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 89.62 / 88
p0 25.67 ± 25.62
1000
500
0
−500
−1000
pull
Entries 89
Mean 1447
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.00267
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

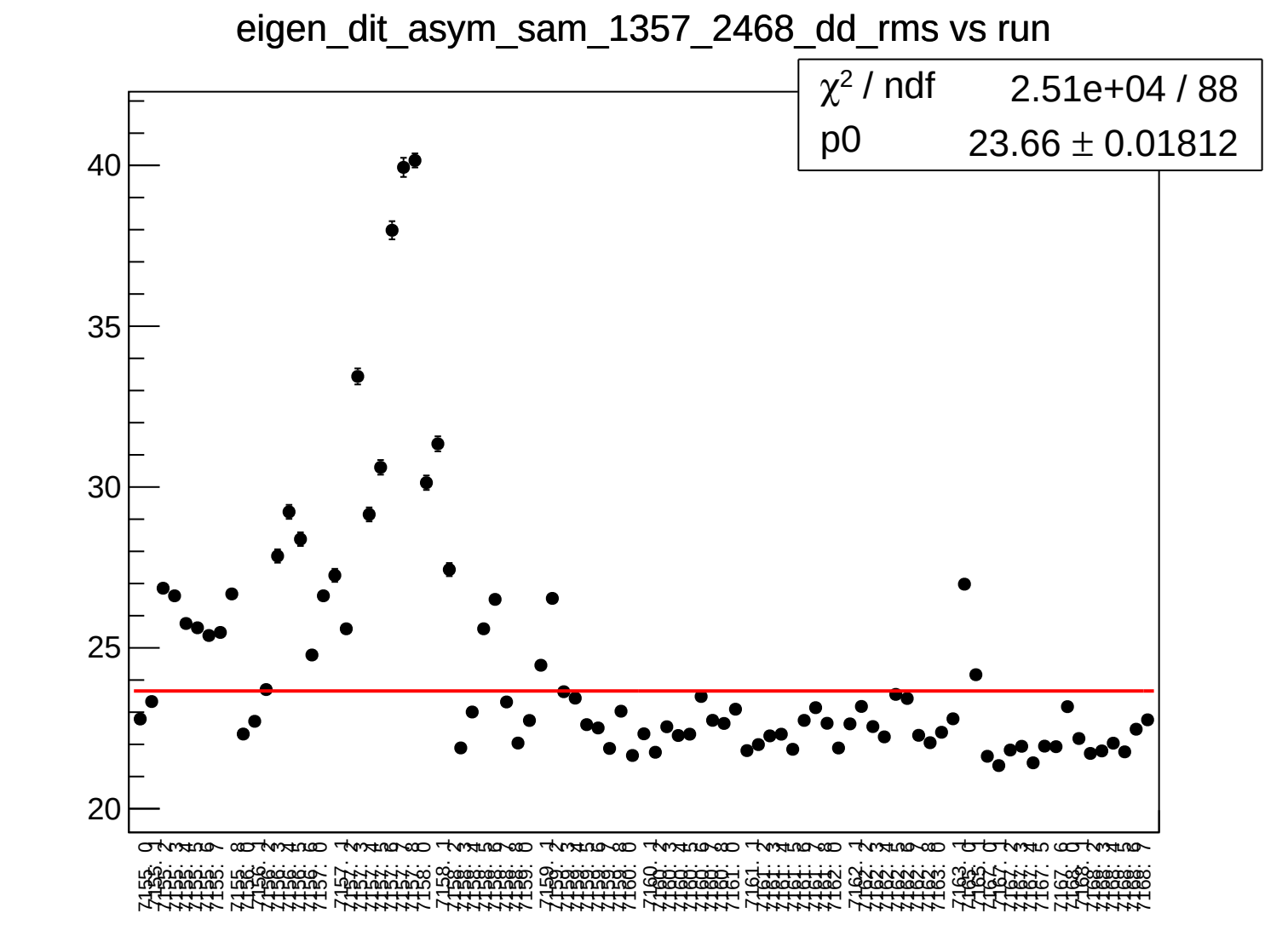

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.51e+04 / 88
p0 23.66 ± 0.01812
40
35
30
25
20

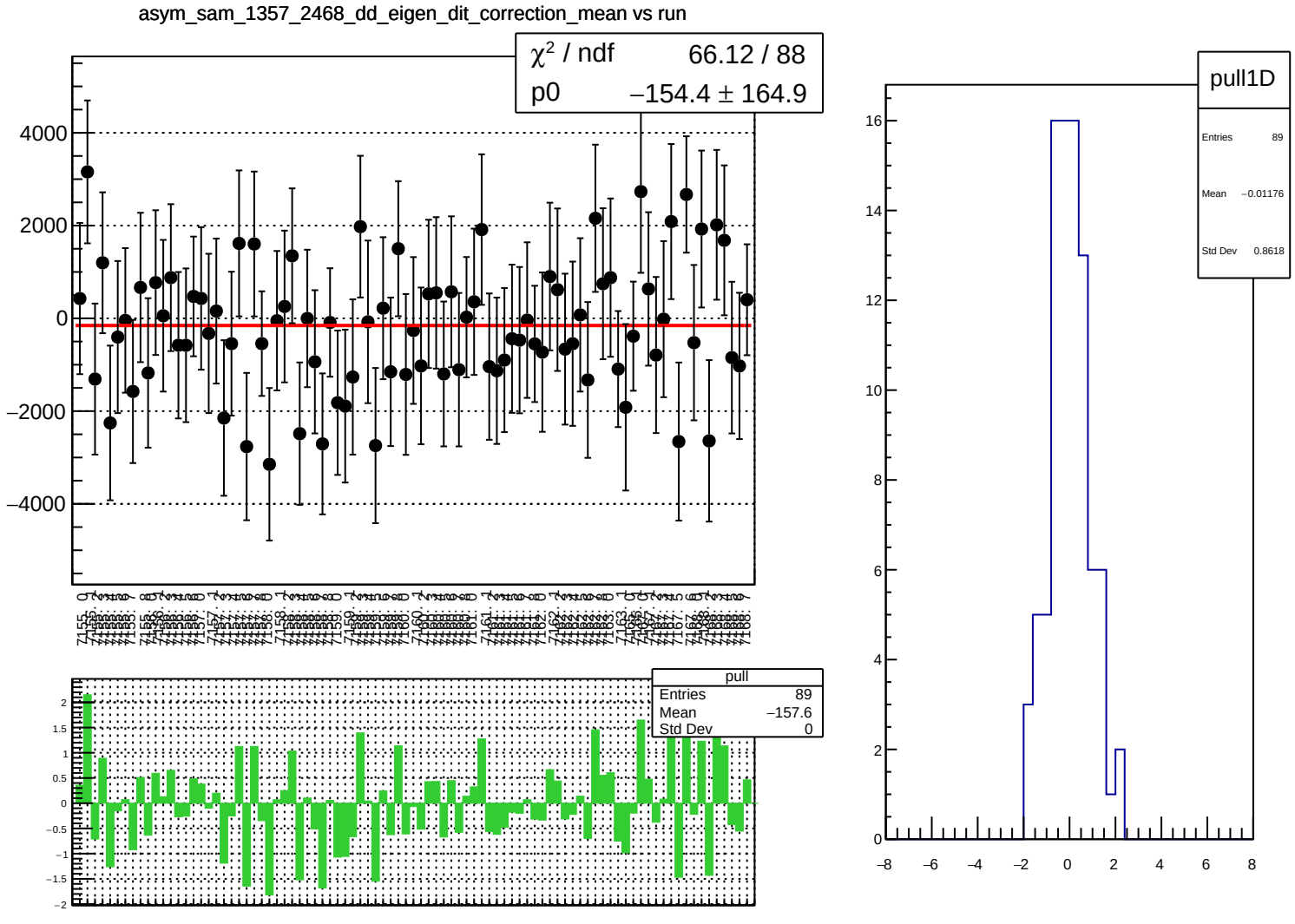

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 66.12 / 88
p0 −154.4 ± 164.9
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −157.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

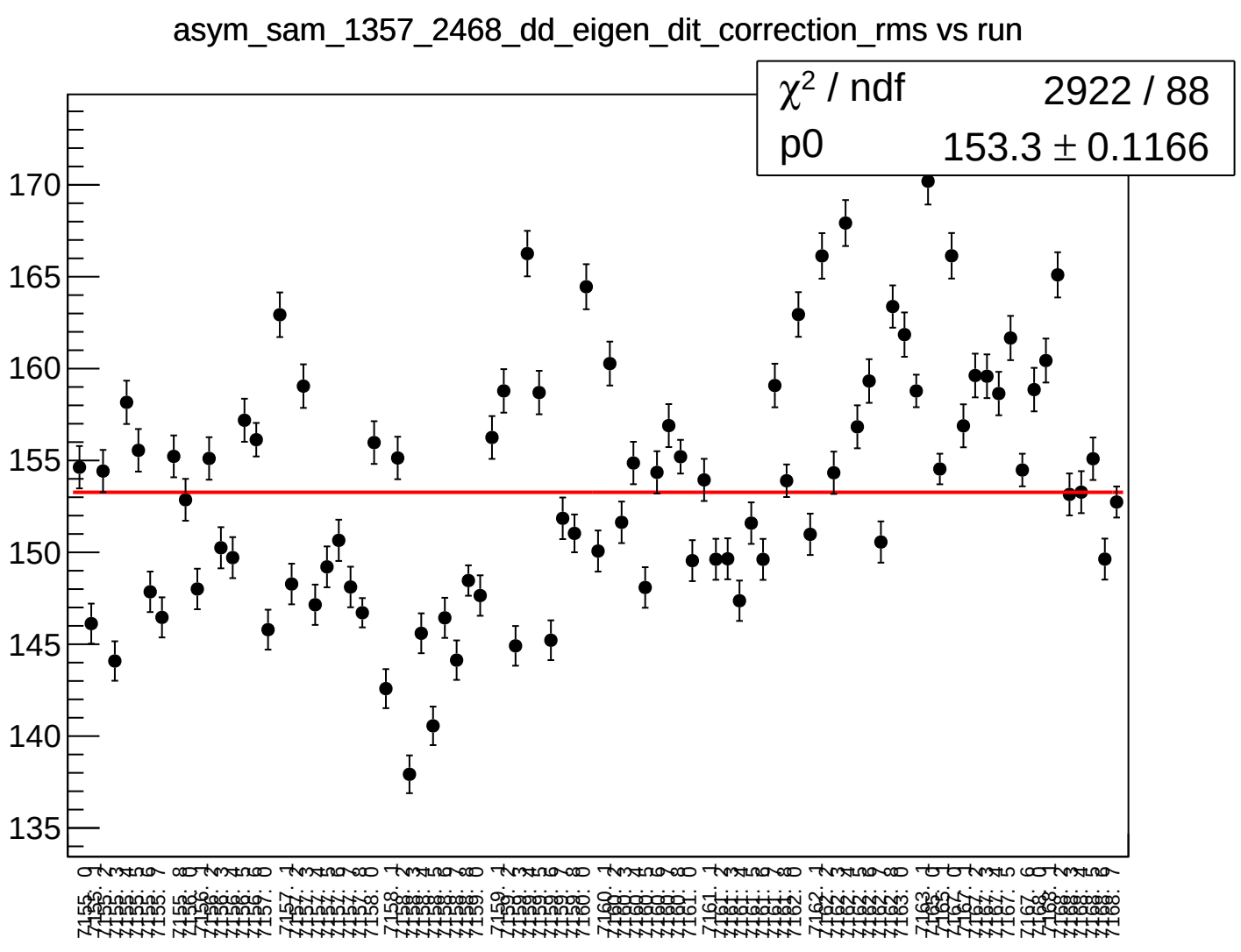

pull1D
Entries 89
Mean −0.01176
Std Dev 0.8618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

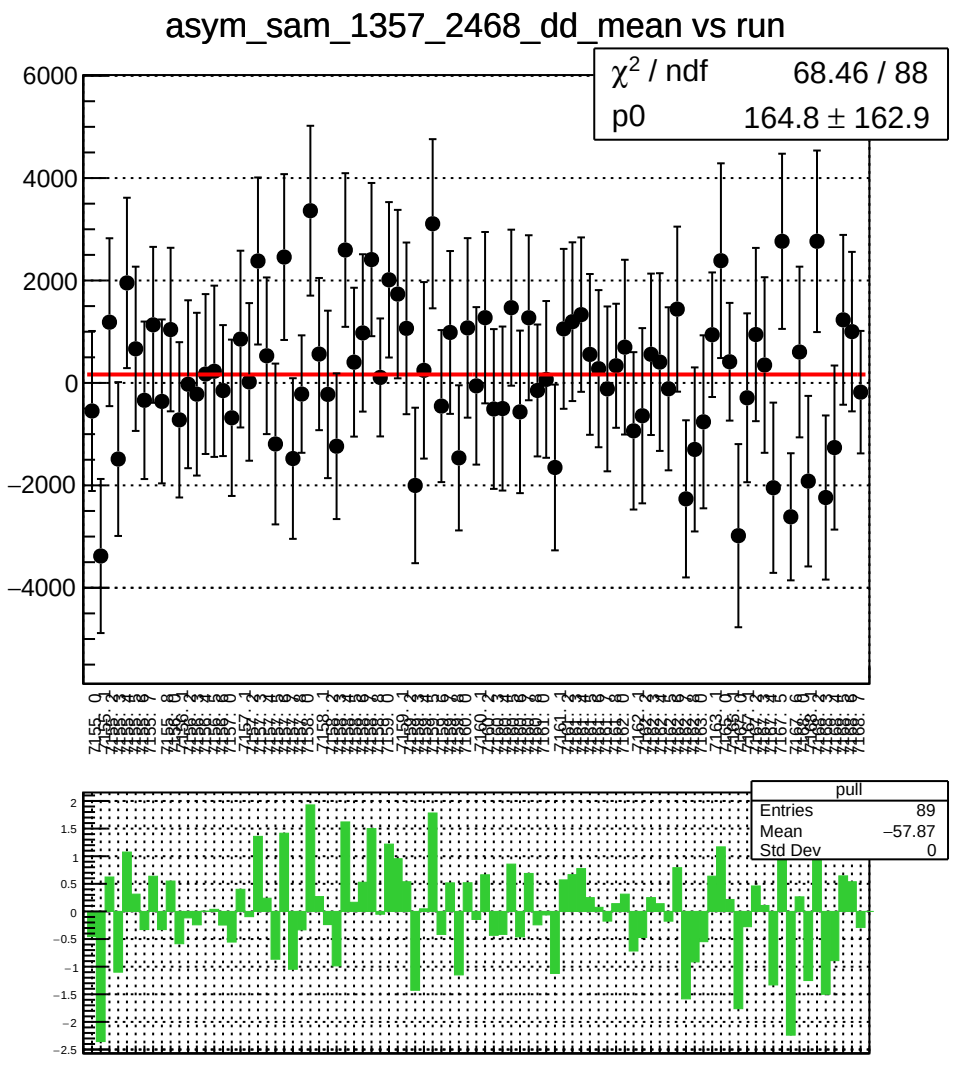

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 2922 / 88
p0 153.3 ± 0.1166
170
165
160
155
150
145
140
135

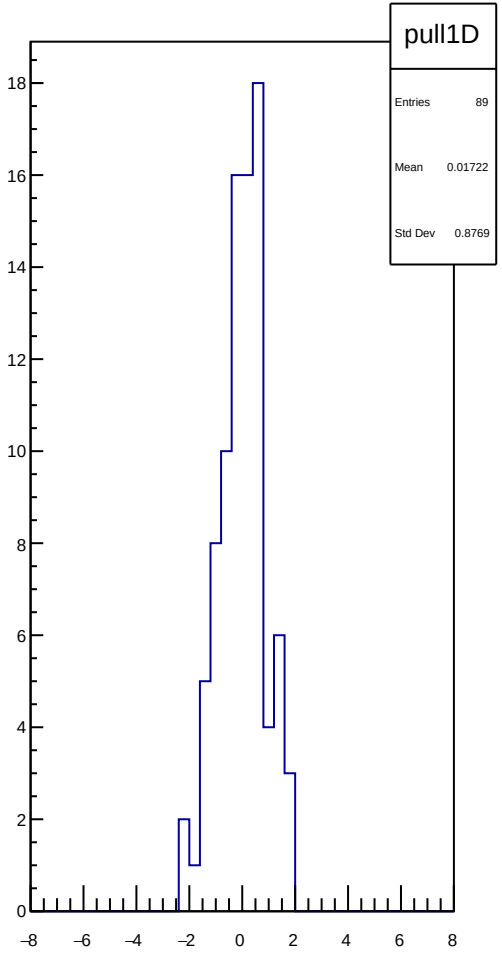

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 89.62 / 88
p0 25.67 ± 25.62
1000
500
0
−500
−1000
pull
Entries 89
Mean 1446
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.002672
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

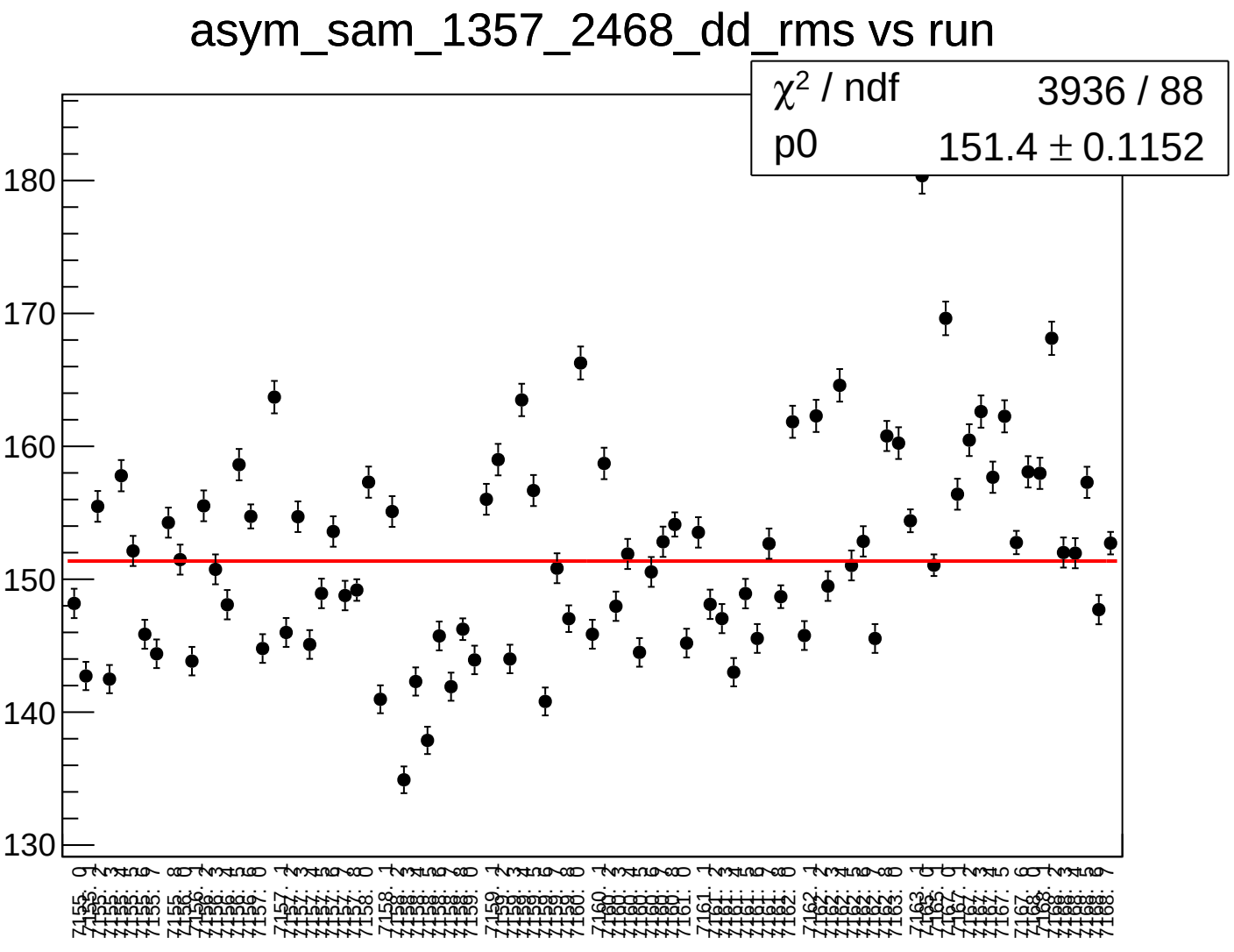

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.51e+04 / 88
p0 23.66 ± 0.01812
40
35
30
25
20

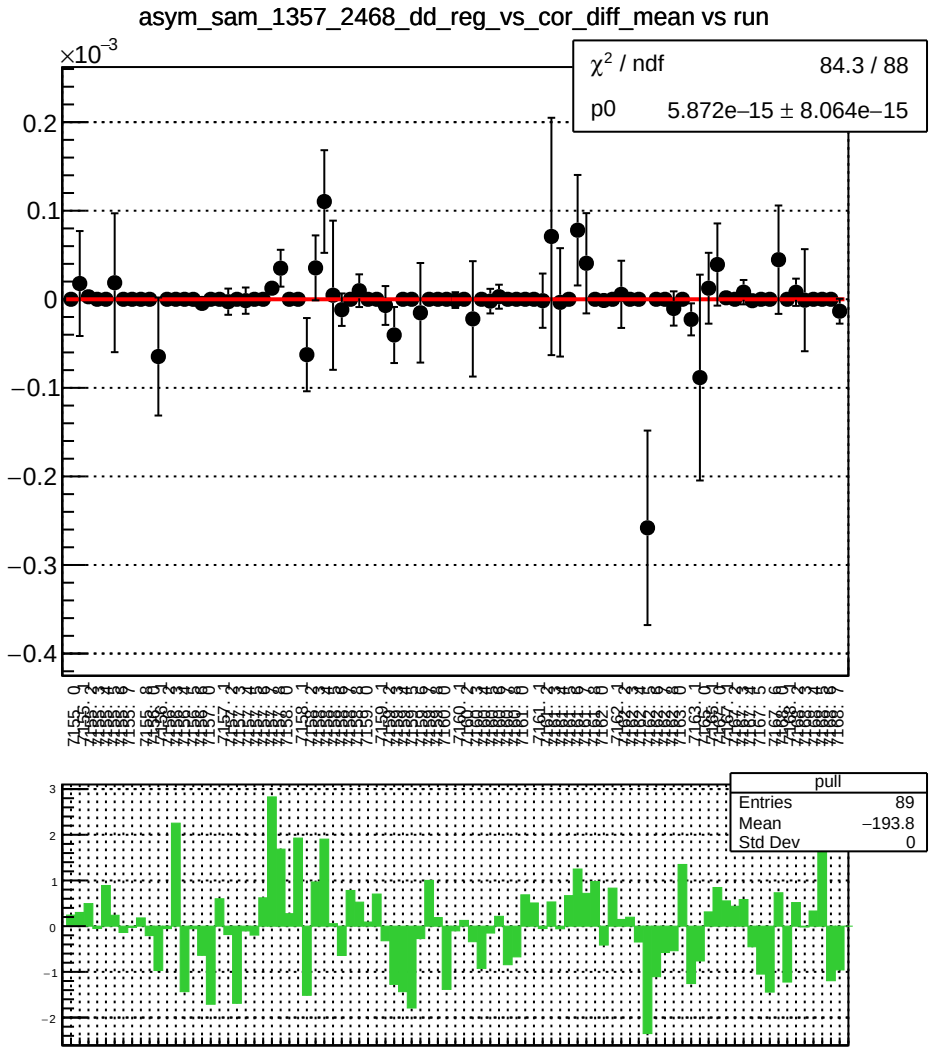

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 66.12 / 88
p0 −154.4 ± 164.9
4000
2000
0
−2000
−4000
pull
Entries 89
Mean −157.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.01176
Std Dev 0.8618
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

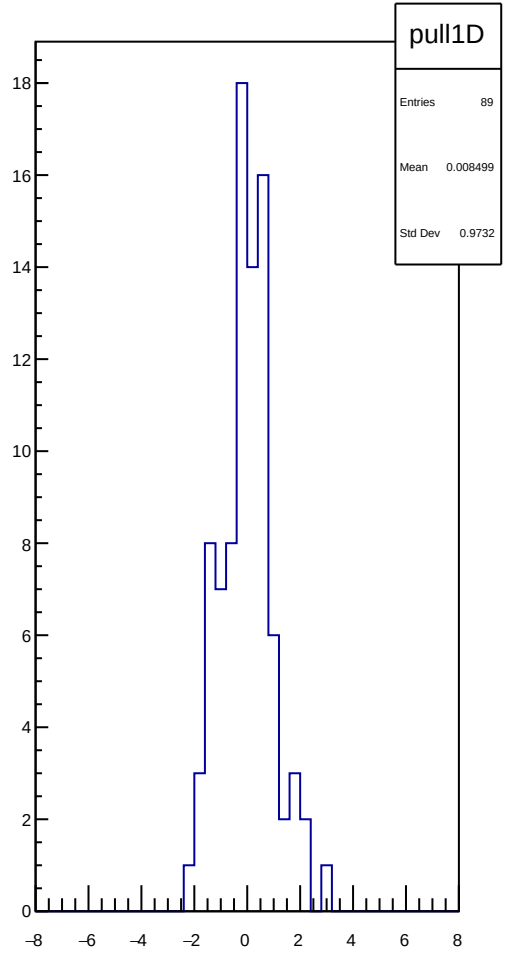

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 2922 / 88
p0 153.3 ± 0.1166
170
165
160
155
150
145
140
135

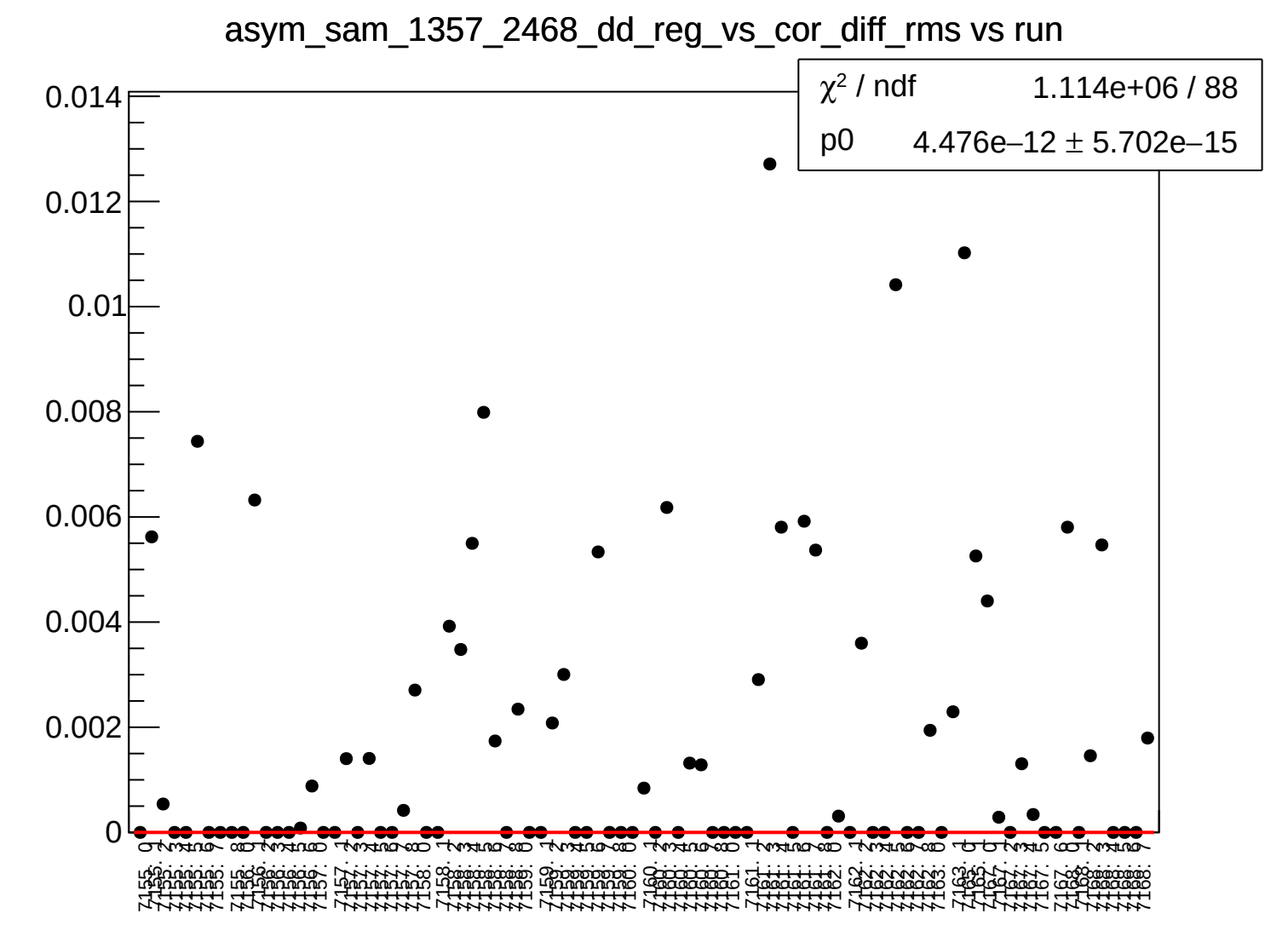

asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 68.46 / 88
p0 164.8 ± 162.9
pull
Entries 89
Mean −57.87
Std Dev 0

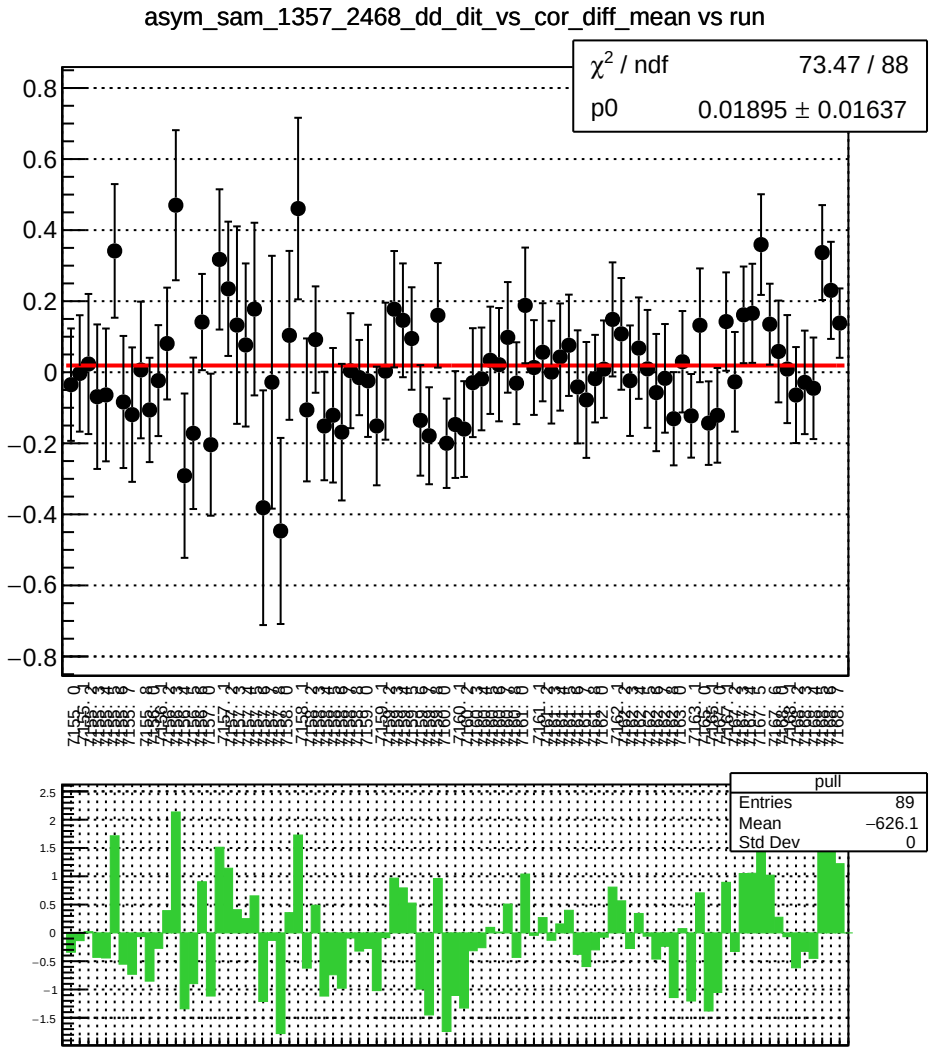

pull1D
Entries 89
Mean 0.01722
Std Dev 0.8769

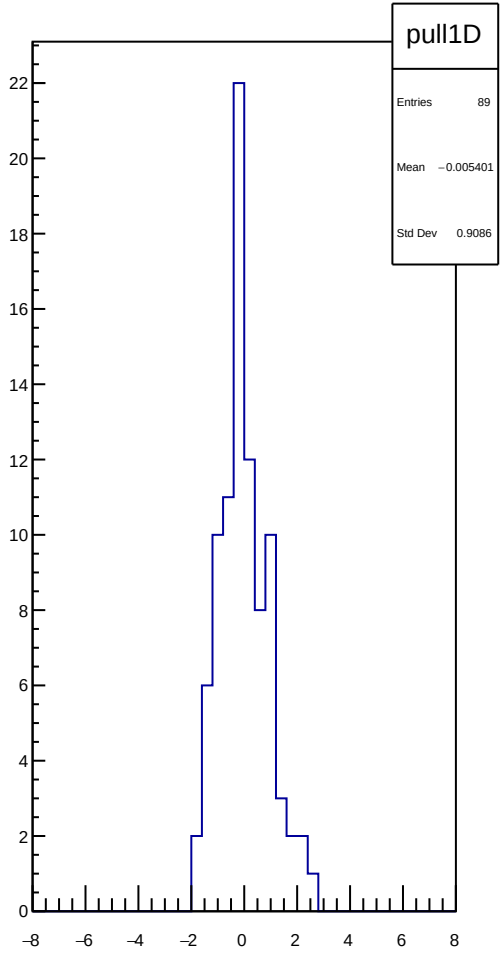

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3936 / 88
p0 151.4 ± 0.1152
180
170
160
150
140
130

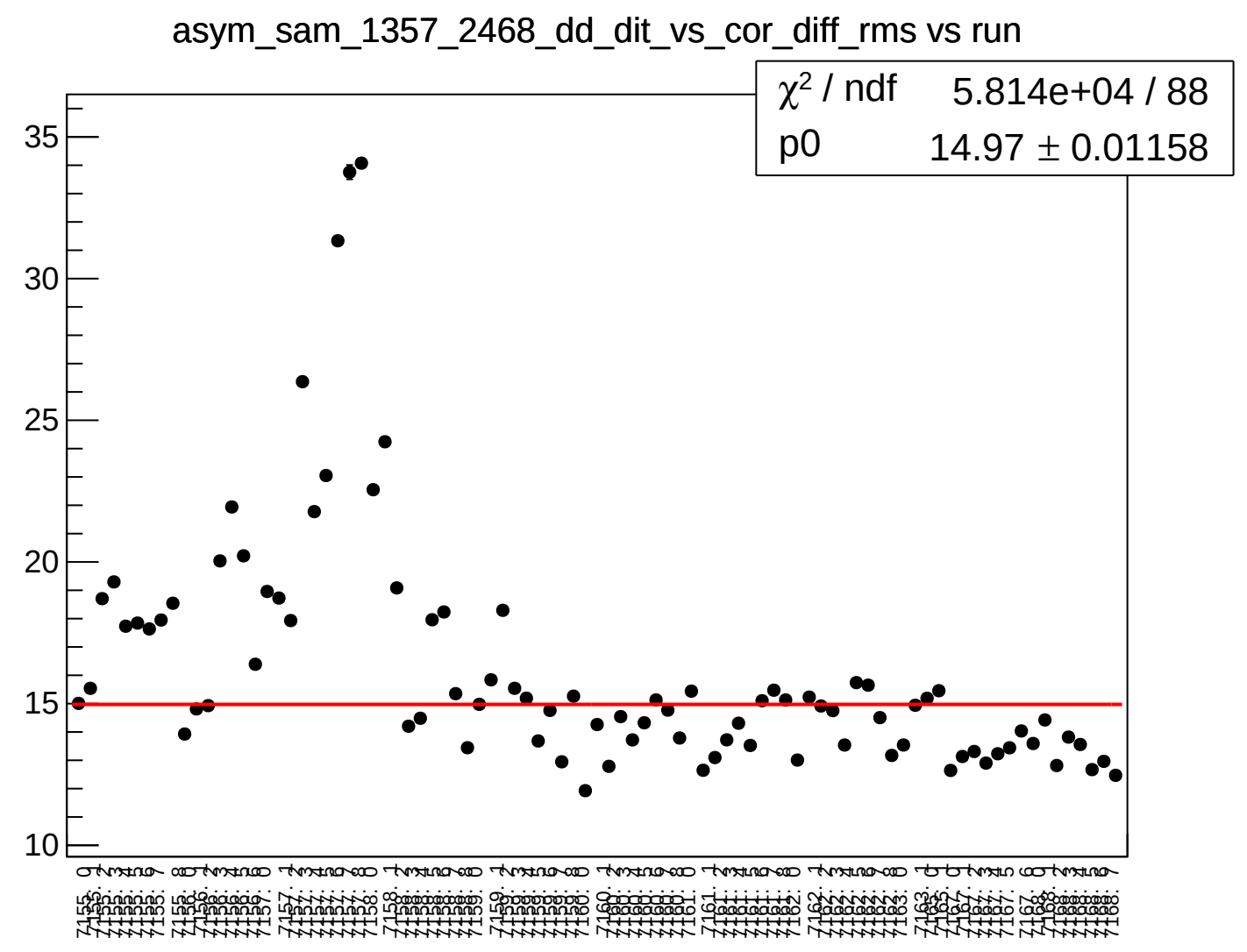

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 84.3 / 88
p0 5.872e−15 ± 8.064e−15
pull
Entries 89
Mean −193.8
Std Dev 0

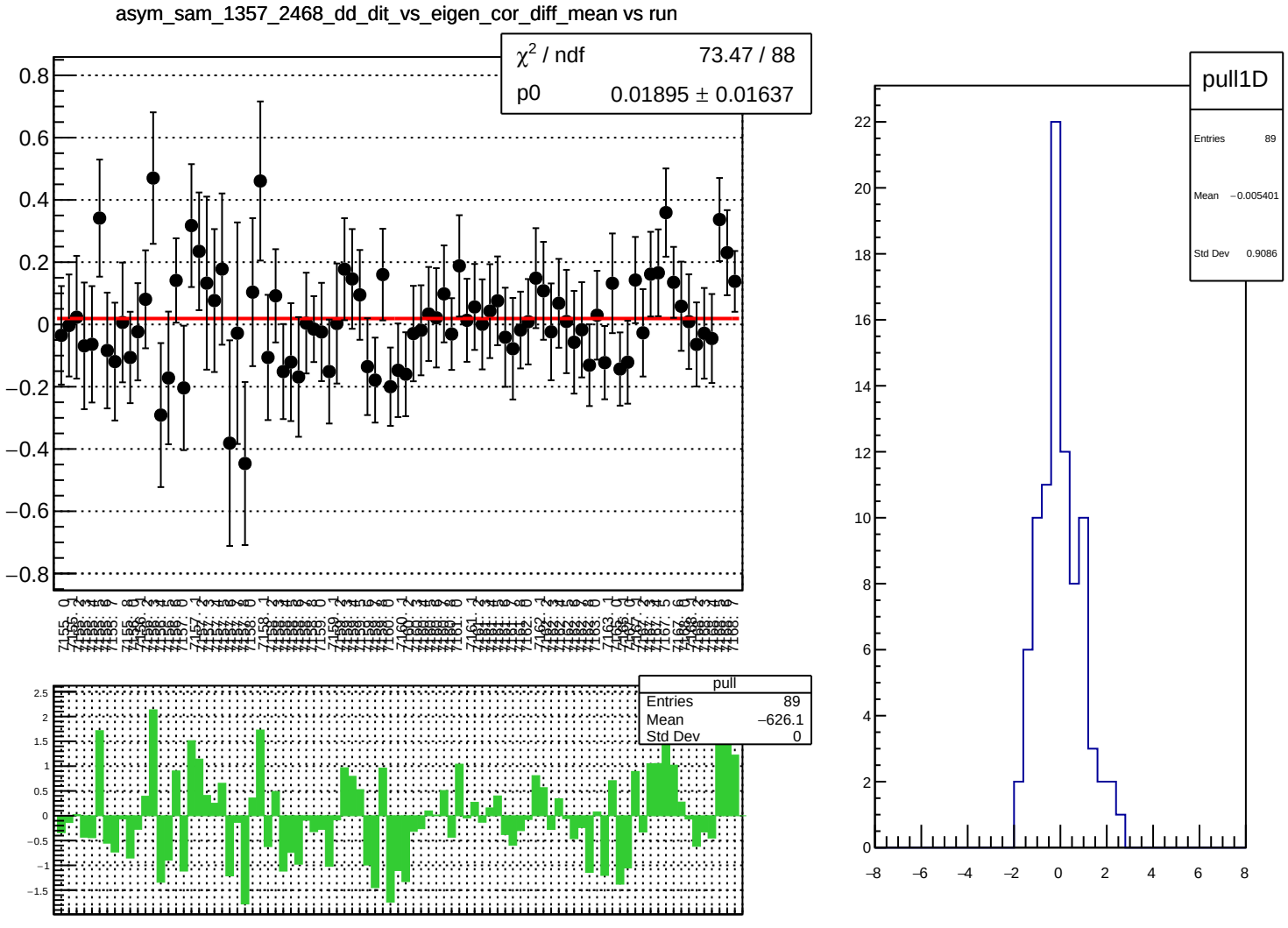

pull1D
Entries 89
Mean 0.008499
Std Dev 0.9732

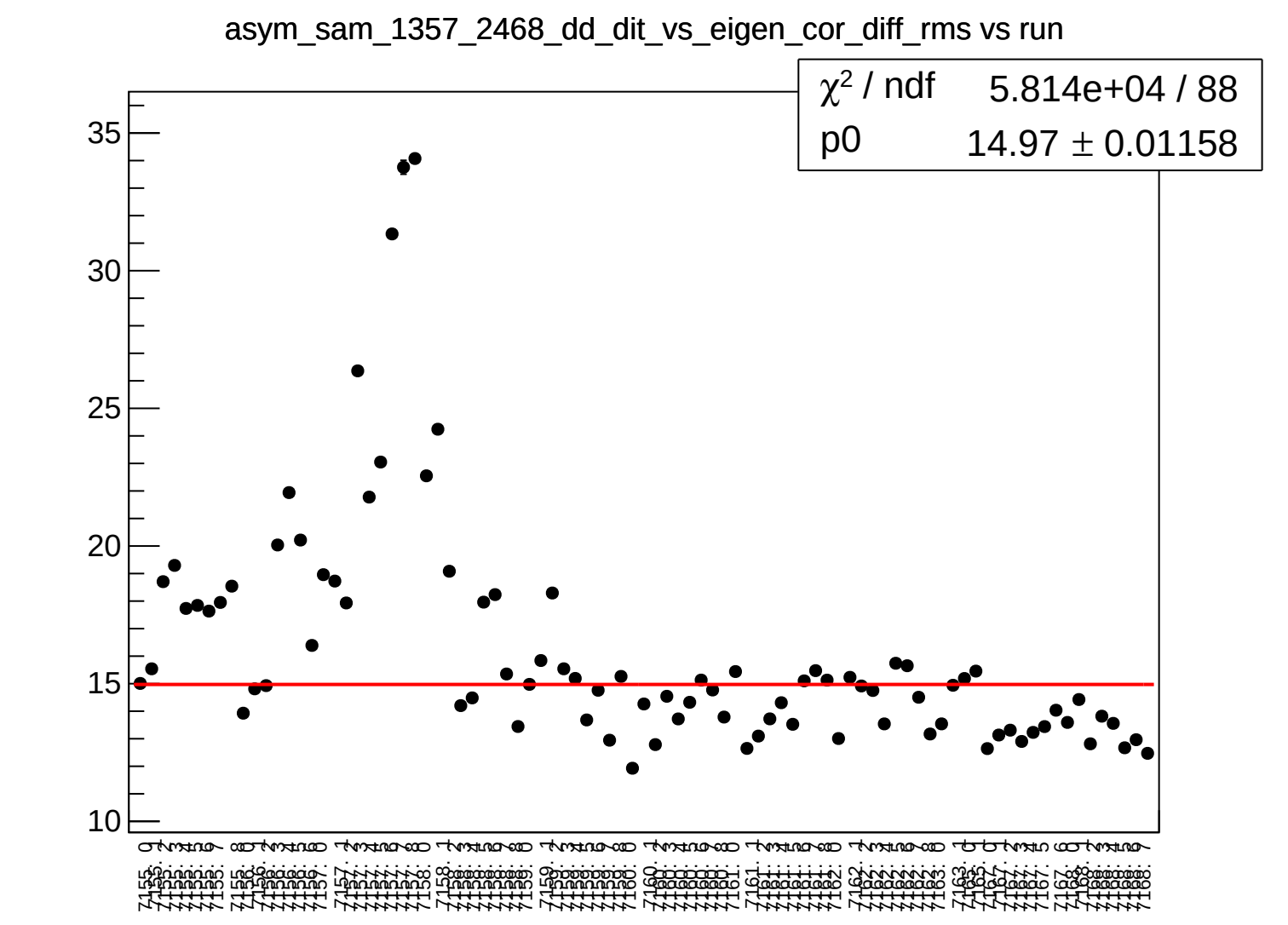

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.114e+06 / 88
p0 4.476e−12 ± 5.702e−15
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

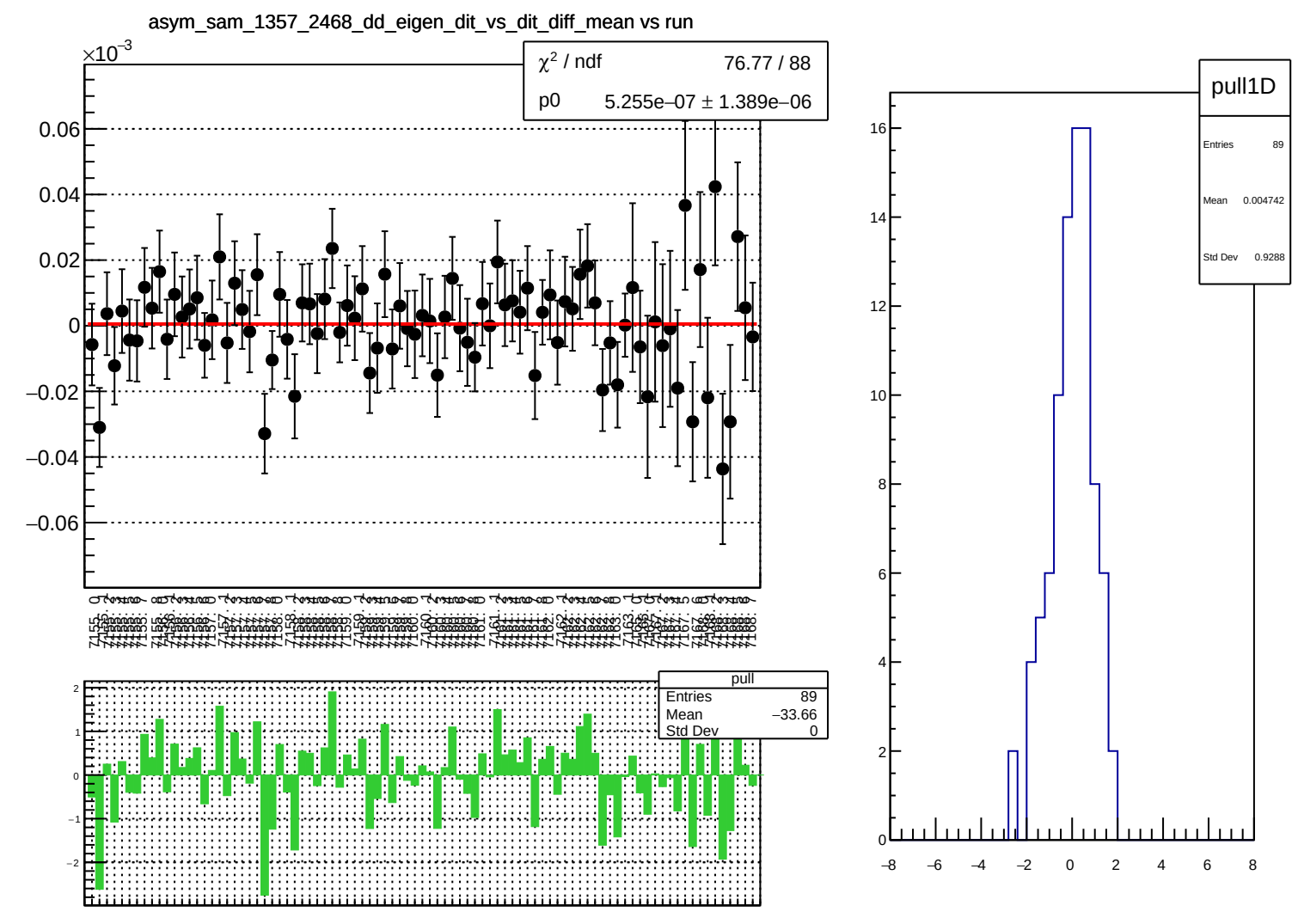

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 0.01895 ± 0.01637
pull
Entries 89
Mean −626.1
Std Dev 0

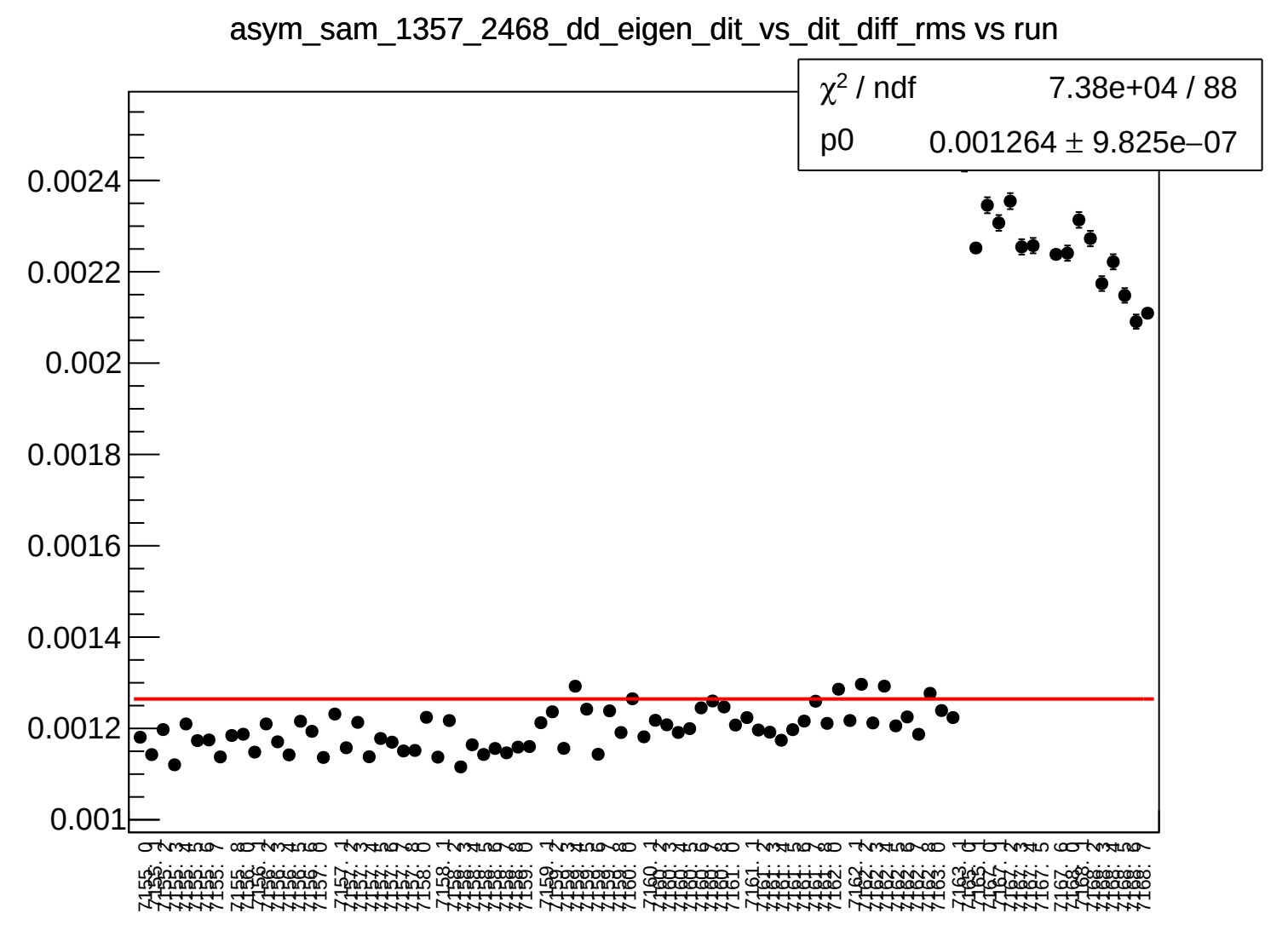

pull1D
Entries 89
Mean −0.005401
Std Dev 0.9086

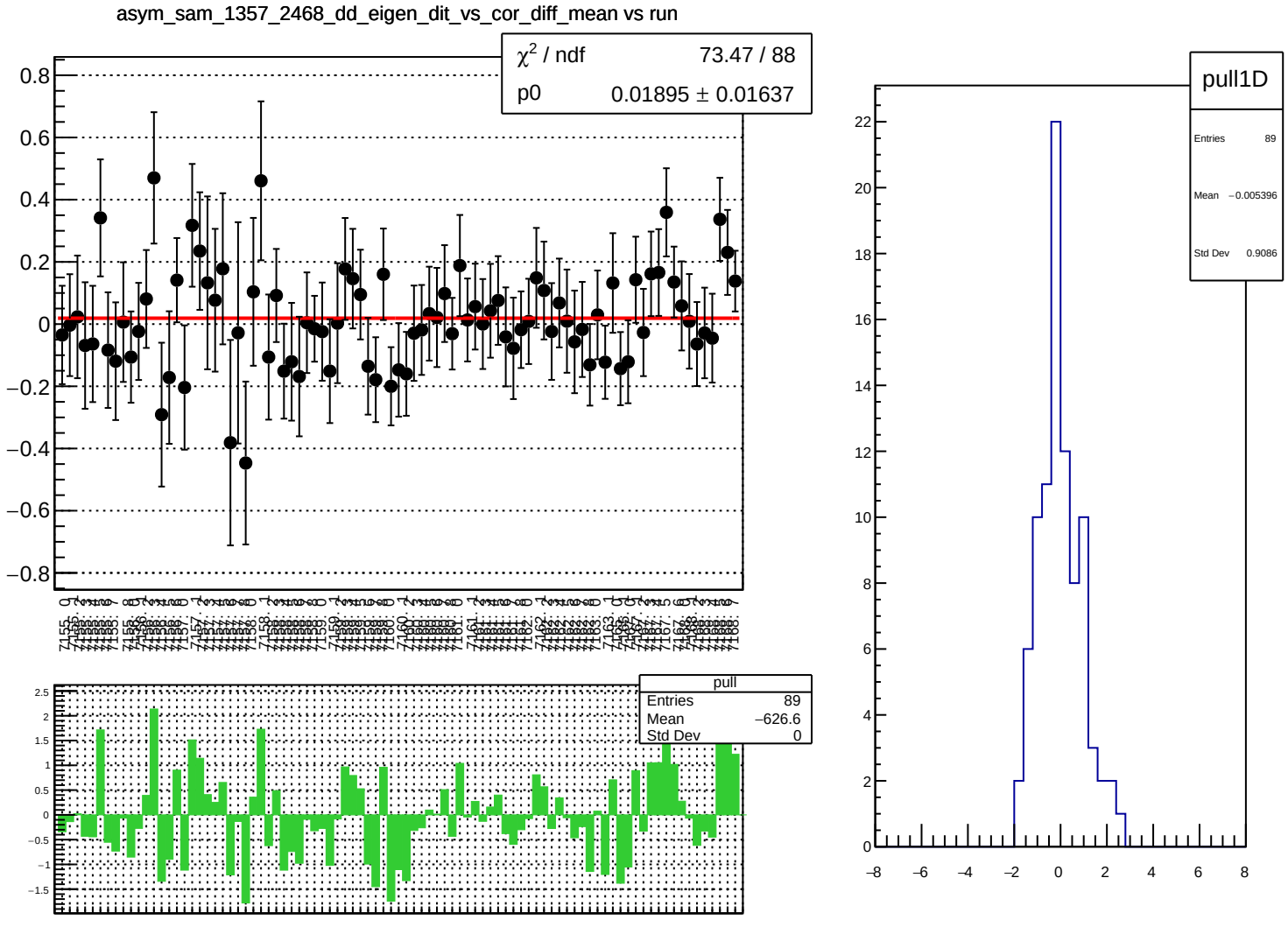

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 88
p0 14.97 ± 0.01158
35
30
25
20
15
10

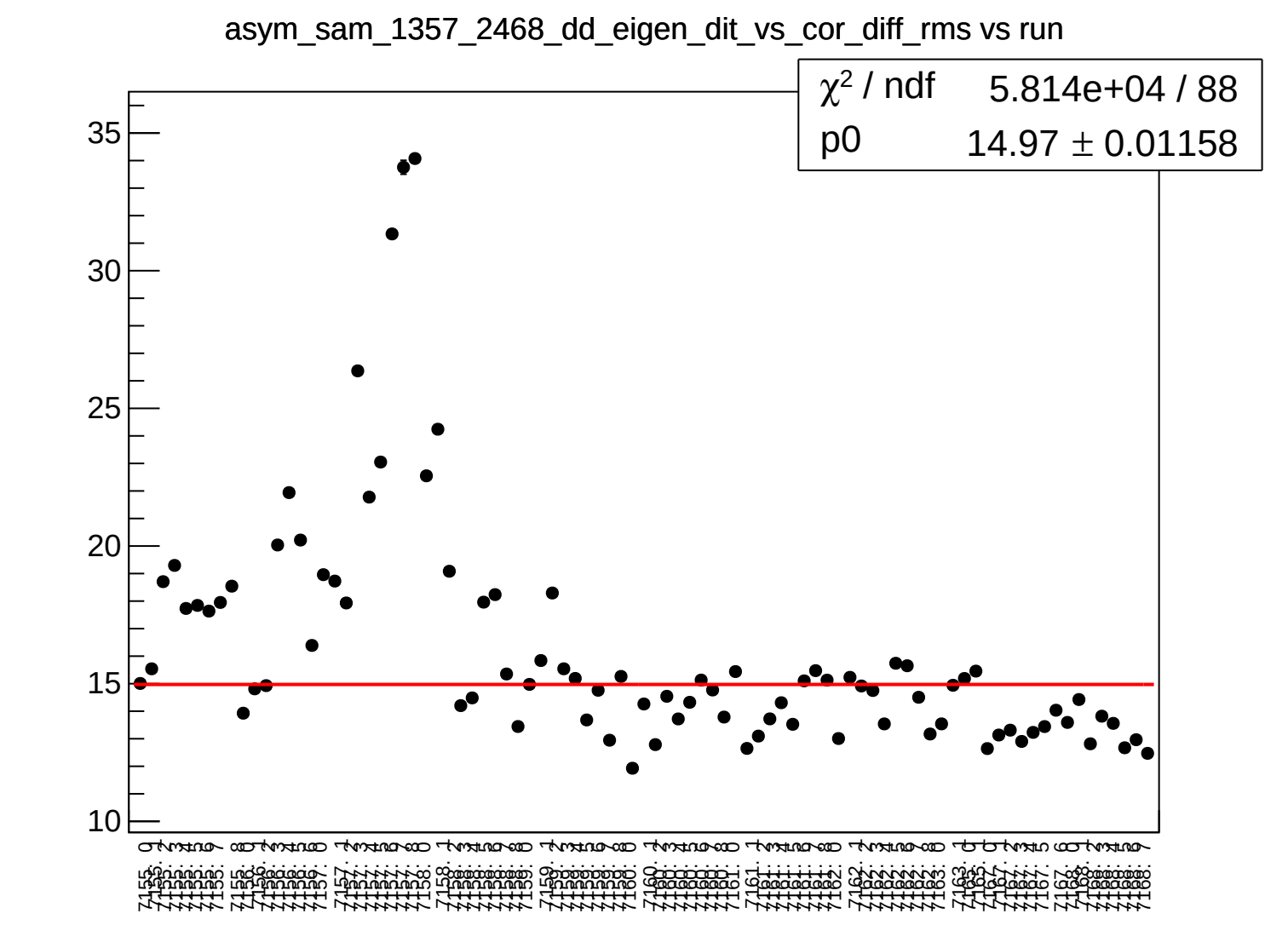

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 0.01895 ± 0.01637
pull
Entries 89
Mean −626.1
Std Dev 0
pull1D
Entries 89
Mean −0.005401
Std Dev 0.9086

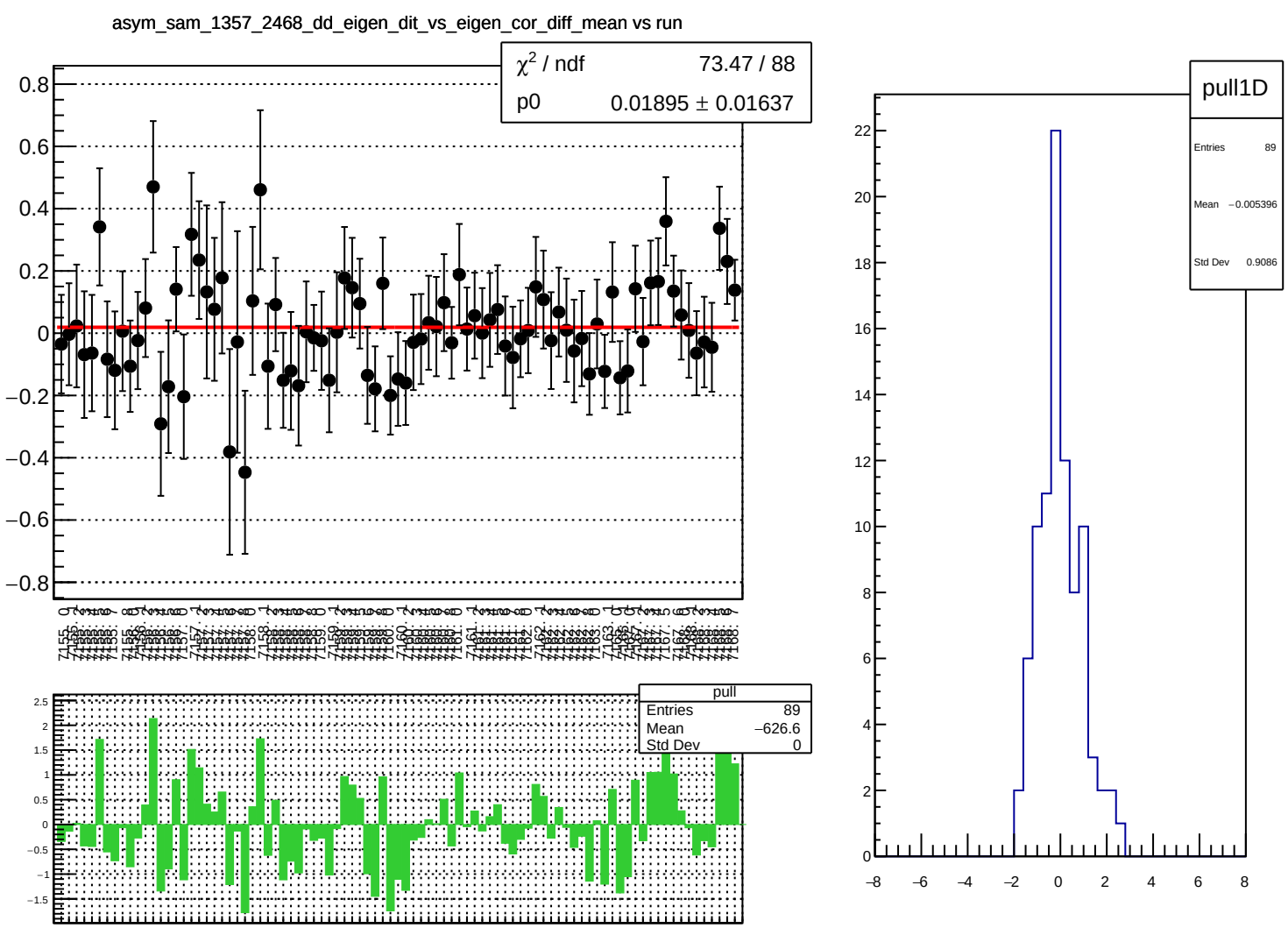

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 88
p0 14.97 ± 0.01158
35
30
25
20
15
10

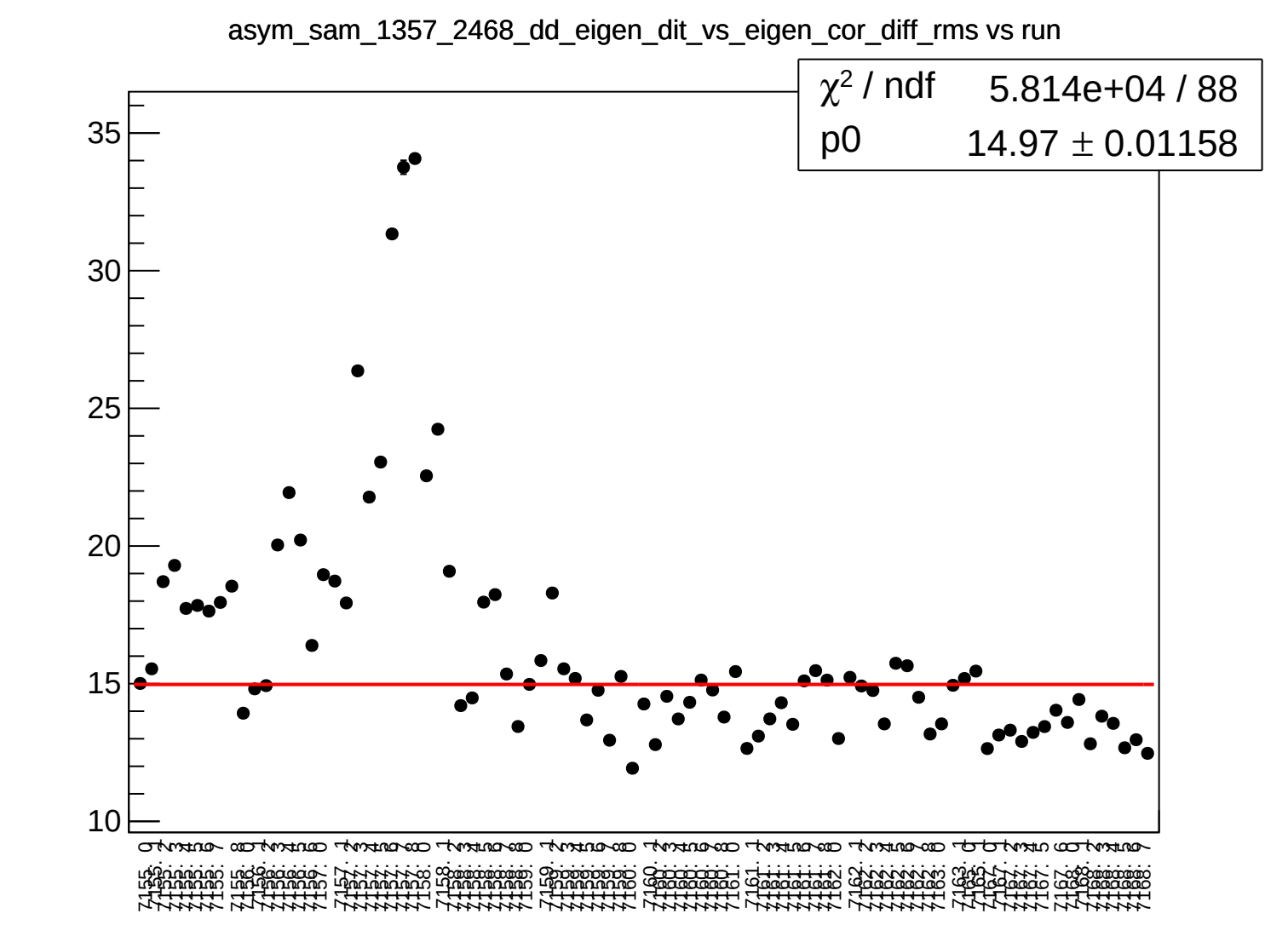

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.77 / 88
p0 5.255e−07 ± 1.389e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 89
Mean −33.66
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 89
Mean 0.004742
Std Dev 0.9288
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

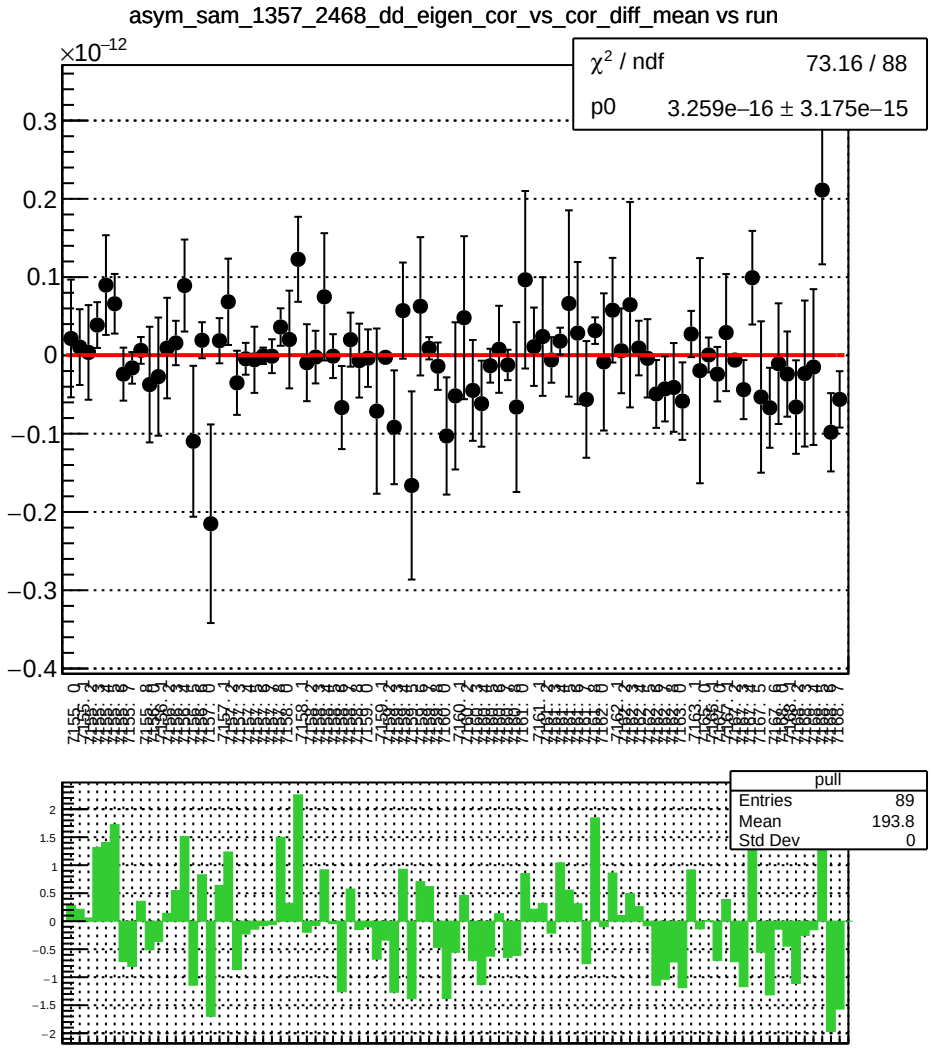

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.38e+04 / 88
p0 0.001264 ± 9.825e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

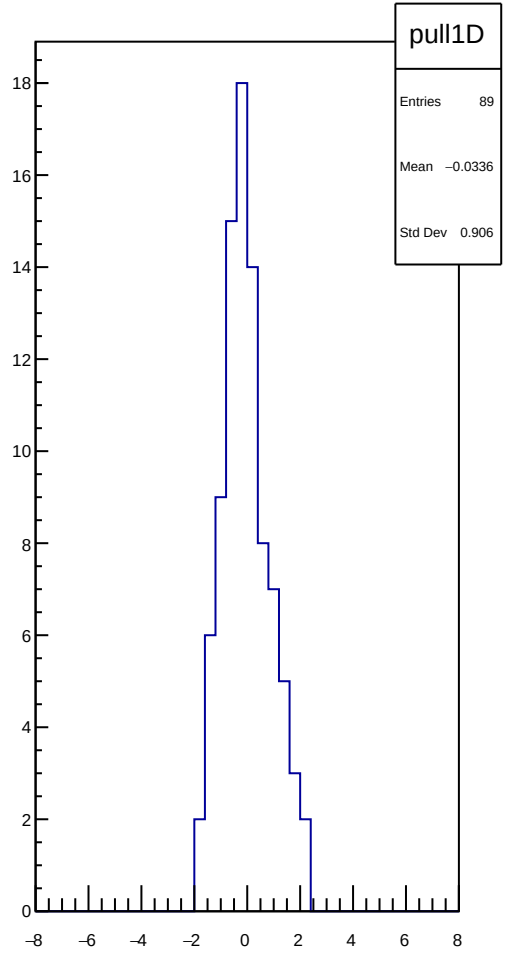

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 0.01895 ± 0.01637
pull
Entries 89
Mean −626.6
Std Dev 0
pull1D
Entries 89
Mean −0.005396
Std Dev 0.9086

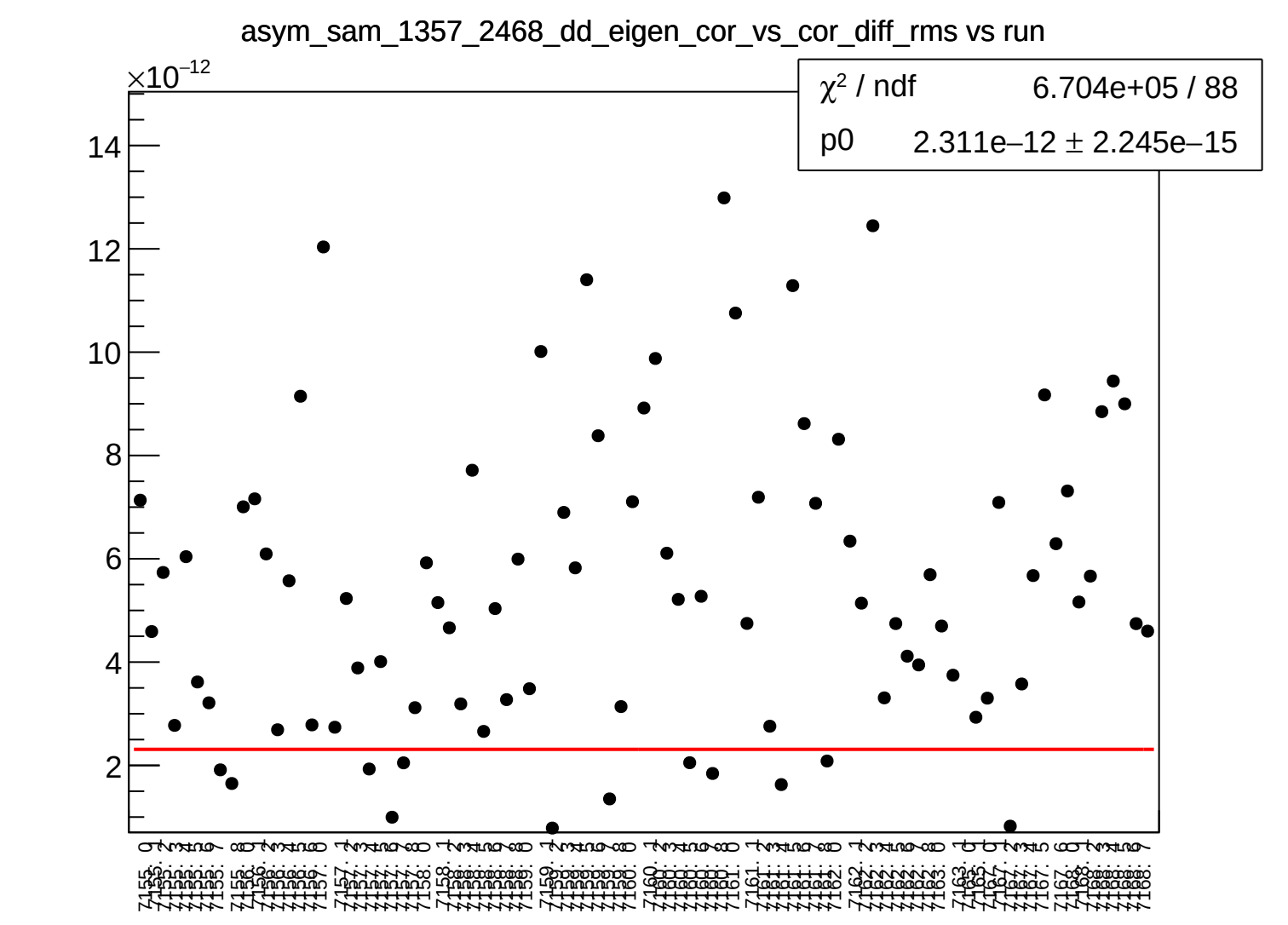

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 88
p0 14.97 ± 0.01158
35
30
25
20
15
10

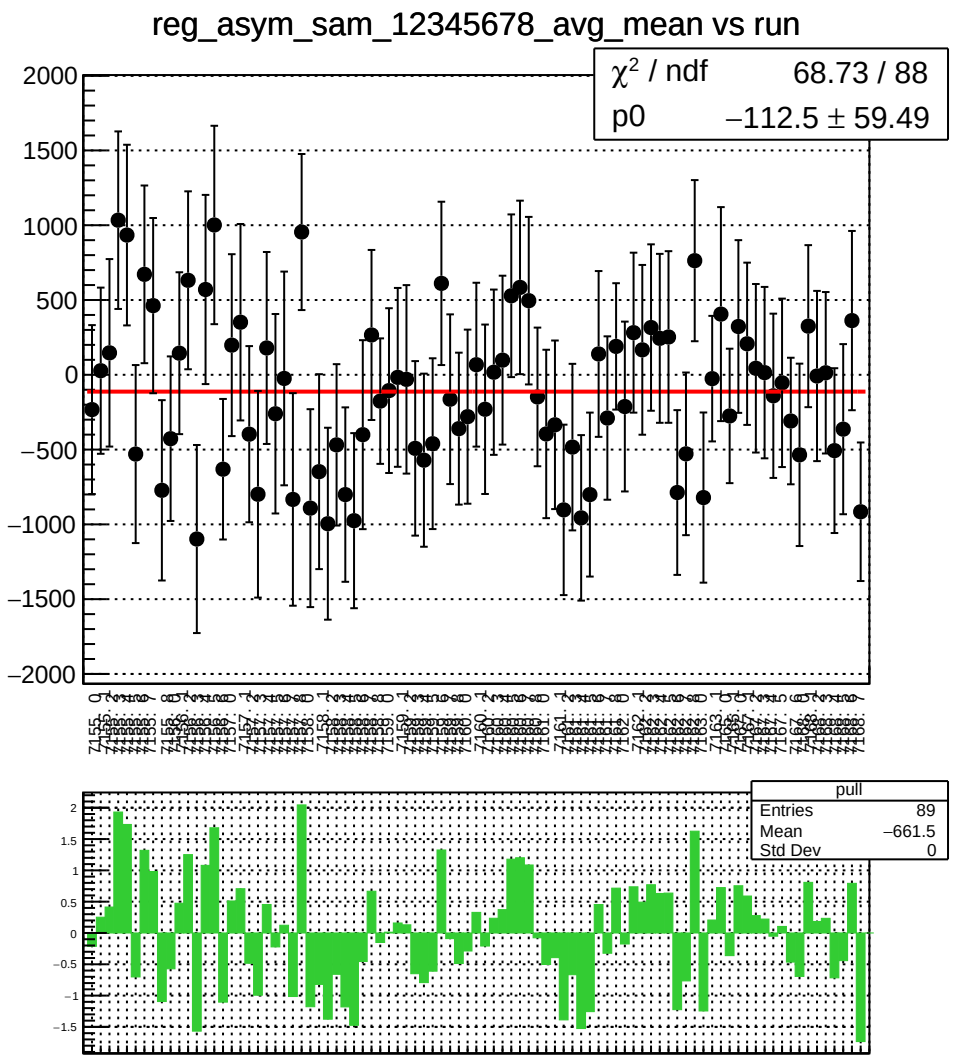

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.47 / 88
p0 0.01895 ± 0.01637
pull
Entries 89
Mean −626.6
Std Dev 0
pull1D
Entries 89
Mean −0.005396
Std Dev 0.9086

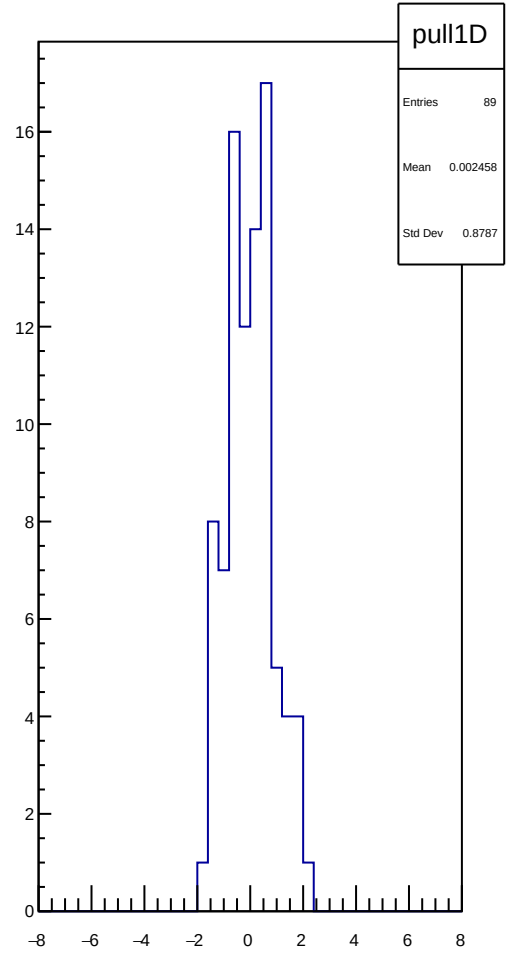

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.814e+04 / 88
p0 14.97 ± 0.01158
35
30
25
20
15
10

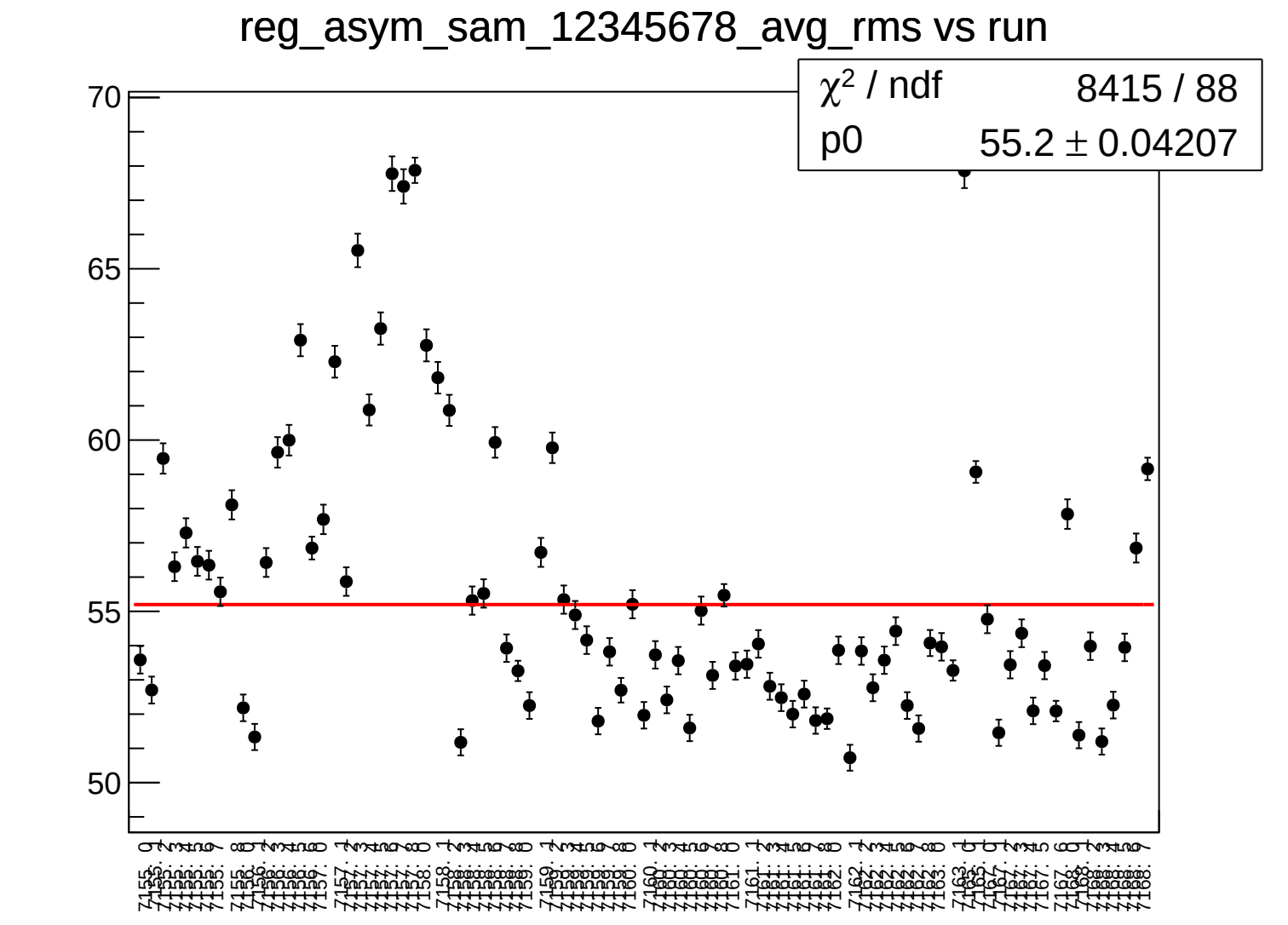

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 73.16 / 88
p0 3.259e−16 ± 3.175e−15
pull
Entries 89
Mean 193.8
Std Dev 0

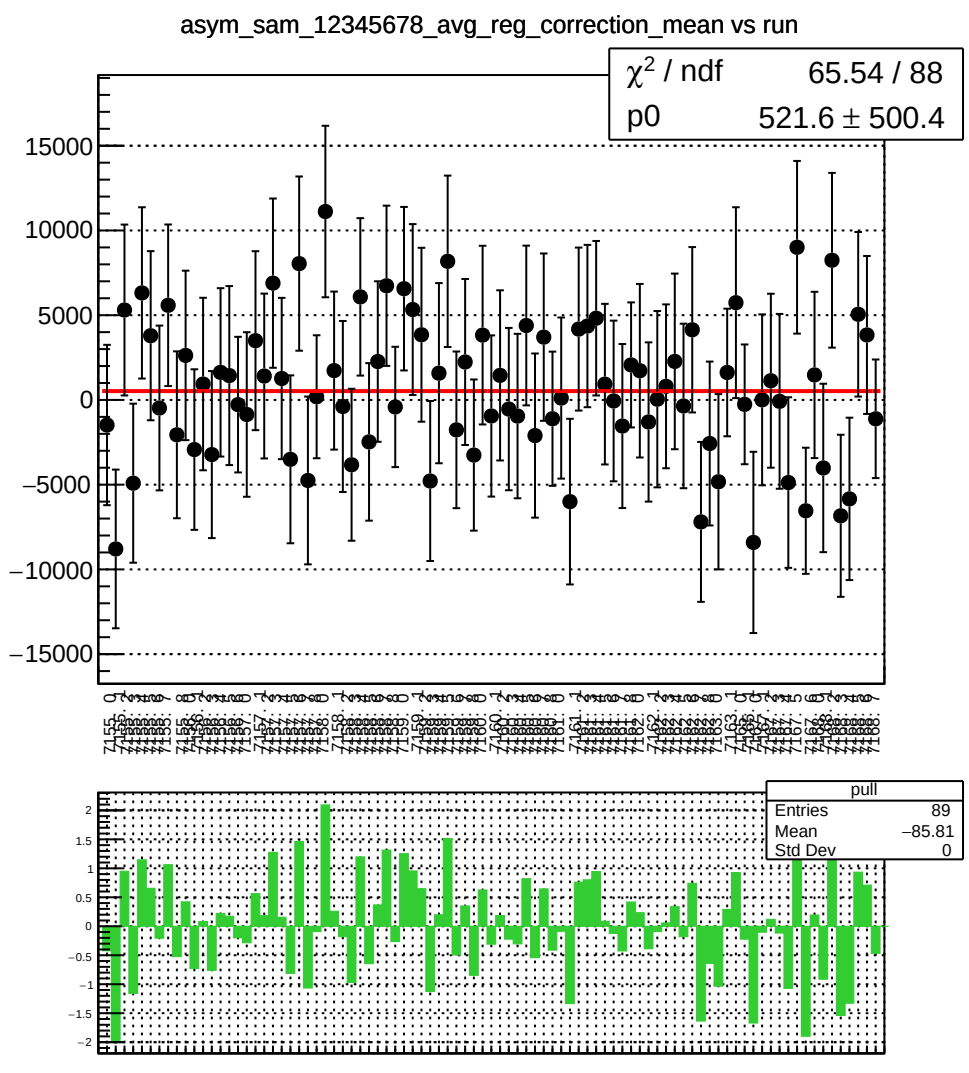

pull1D
Entries 89
Mean −0.0336
Std Dev 0.906

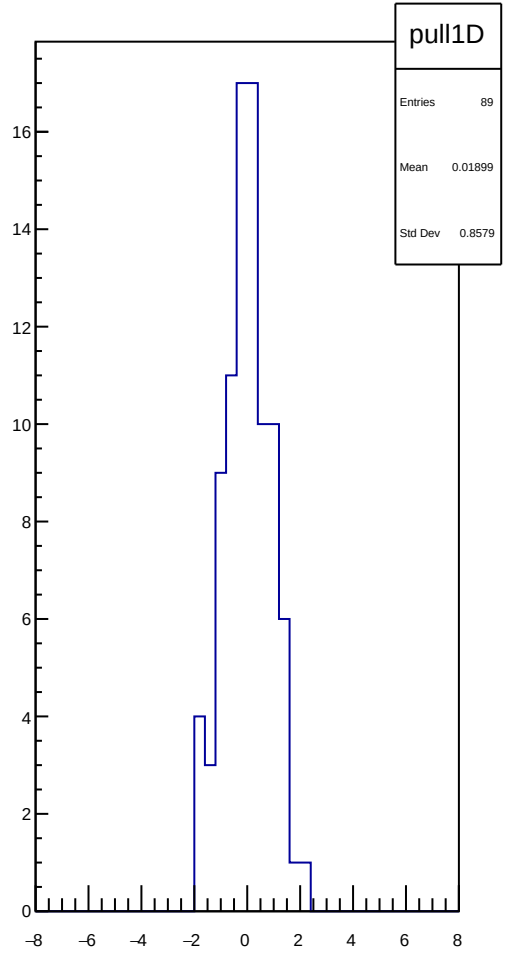

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 6.704e+05 / 88
p0 2.311e−12 ± 2.245e−15
14
12
10
8
6
4
2

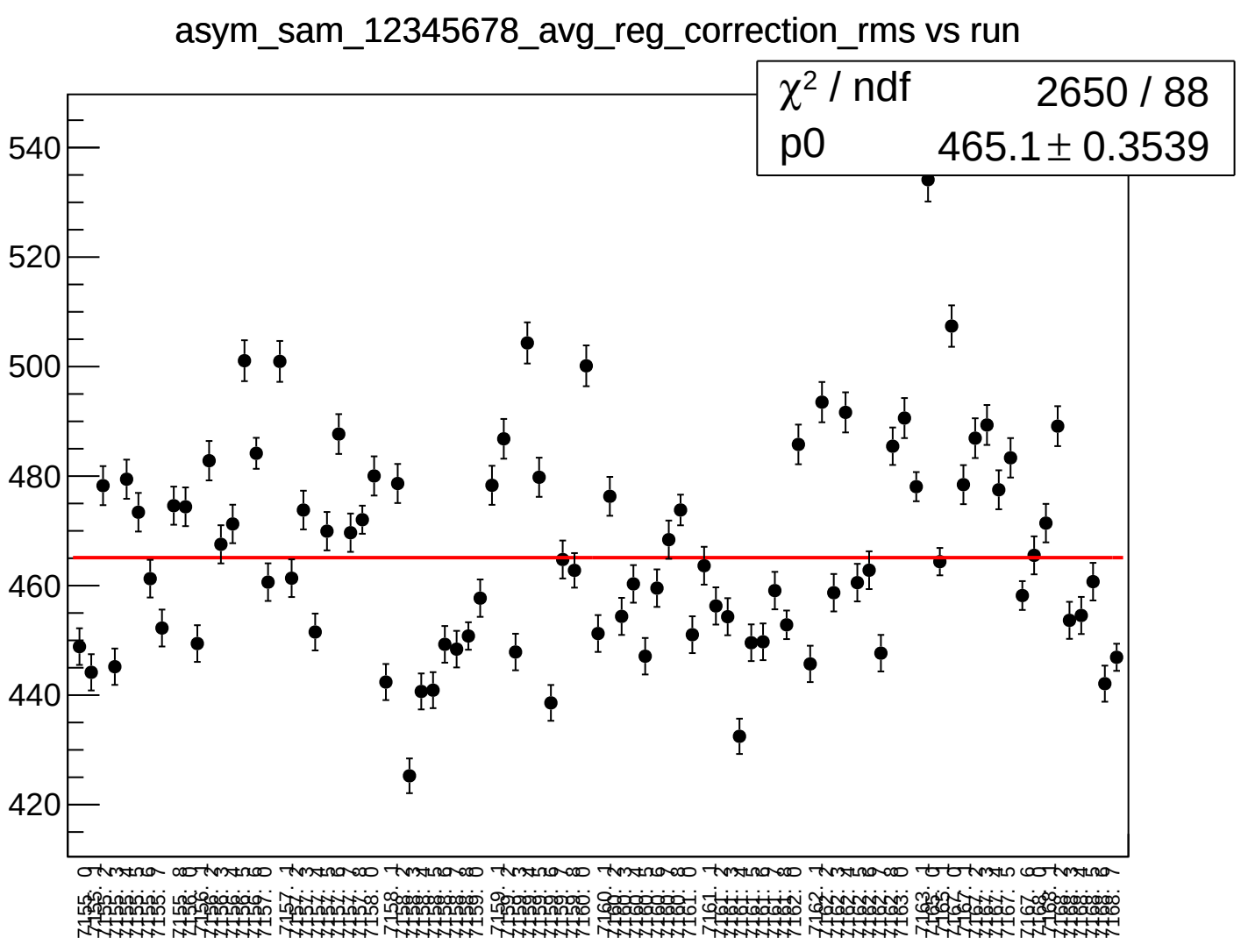

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 68.73 / 88
p0 −112.5 ± 59.49
pull
Entries 89
Mean −661.5
Std Dev 0

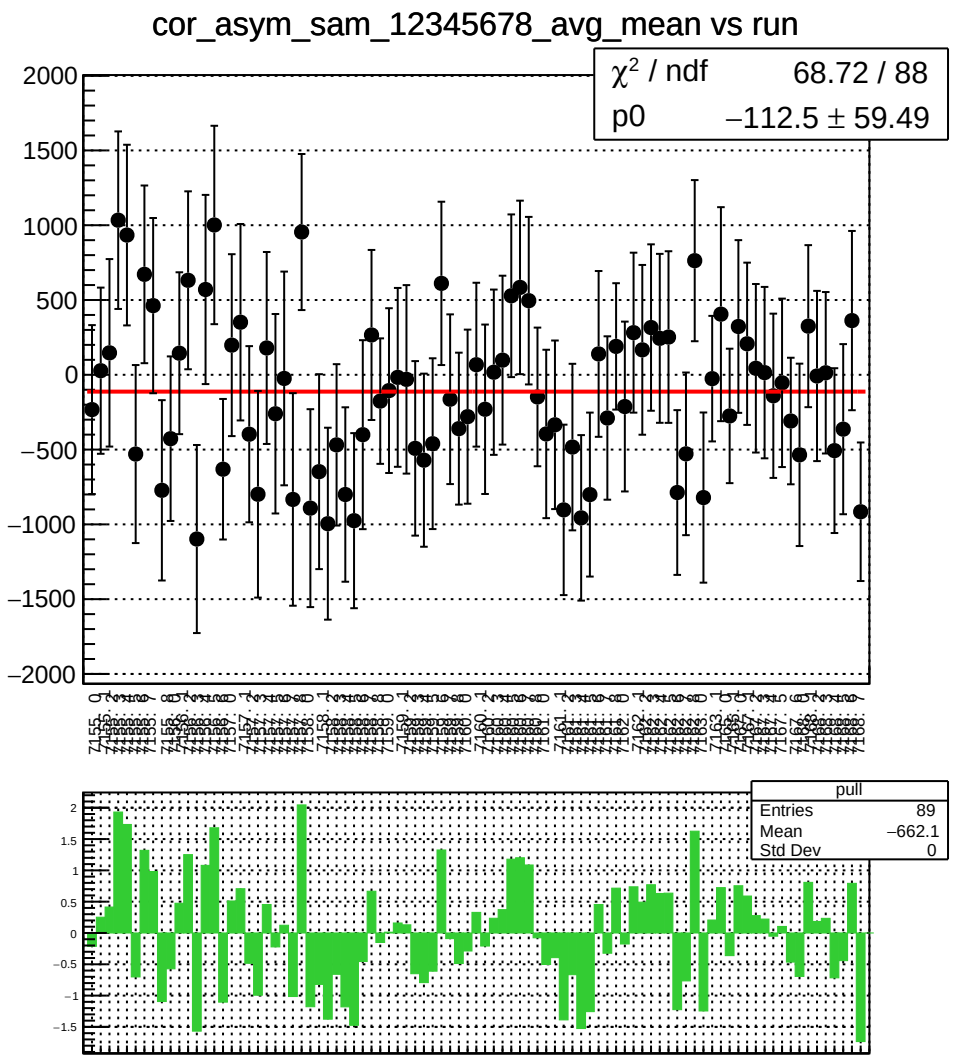

pull1D
Entries 89
Mean 0.002458
Std Dev 0.8787

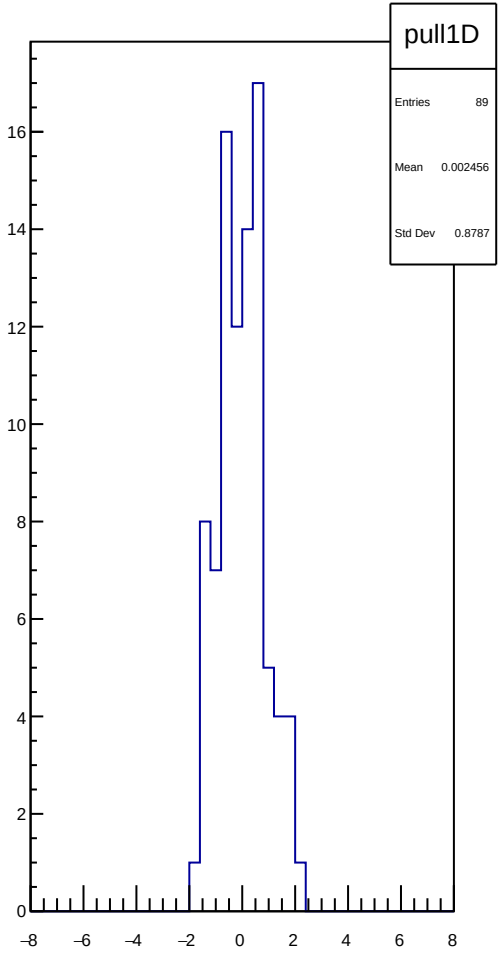

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 8415 / 88
p0 55.2 ± 0.04207
70
65
60
55
50

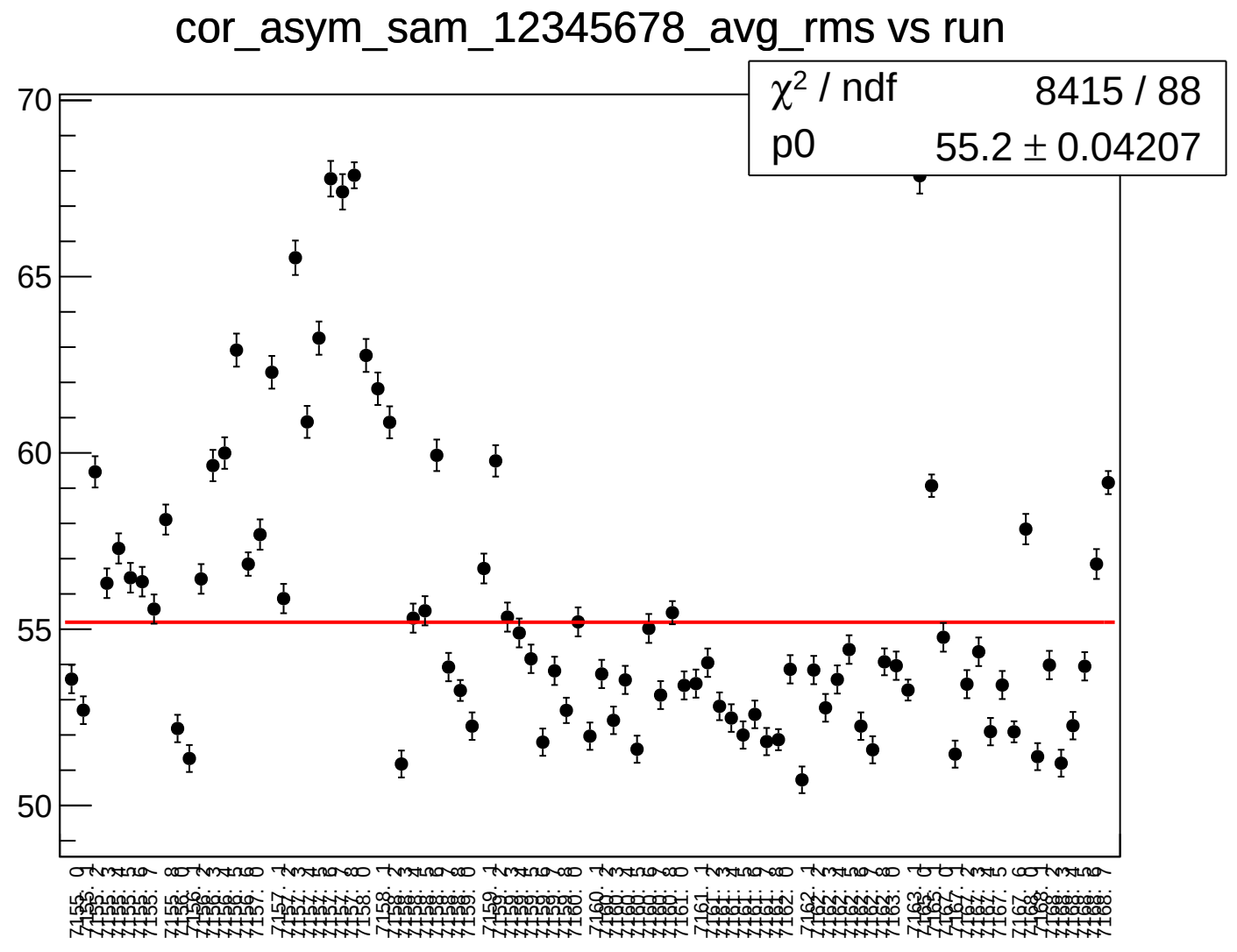

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 65.54 / 88
p0 521.6 ± 500.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −85.81
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

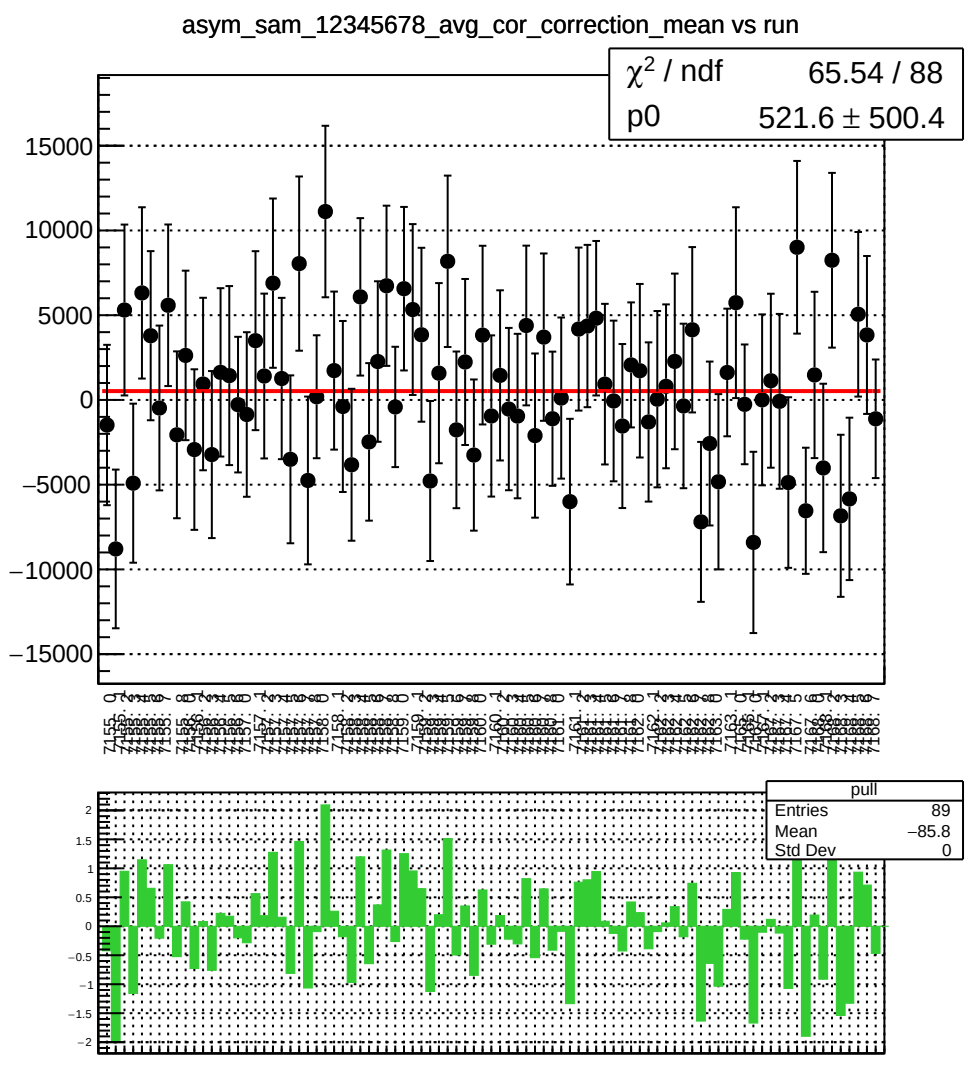

pull1D
Entries 89
Mean 0.01899
Std Dev 0.8579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

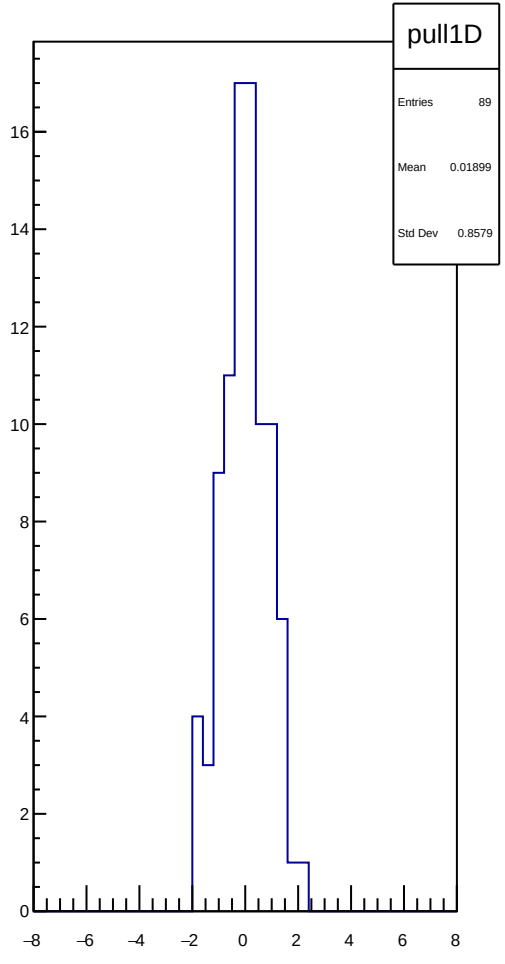

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 2650 / 88
p0 465.1 ± 0.3539
540
520
500
480
460
440
420

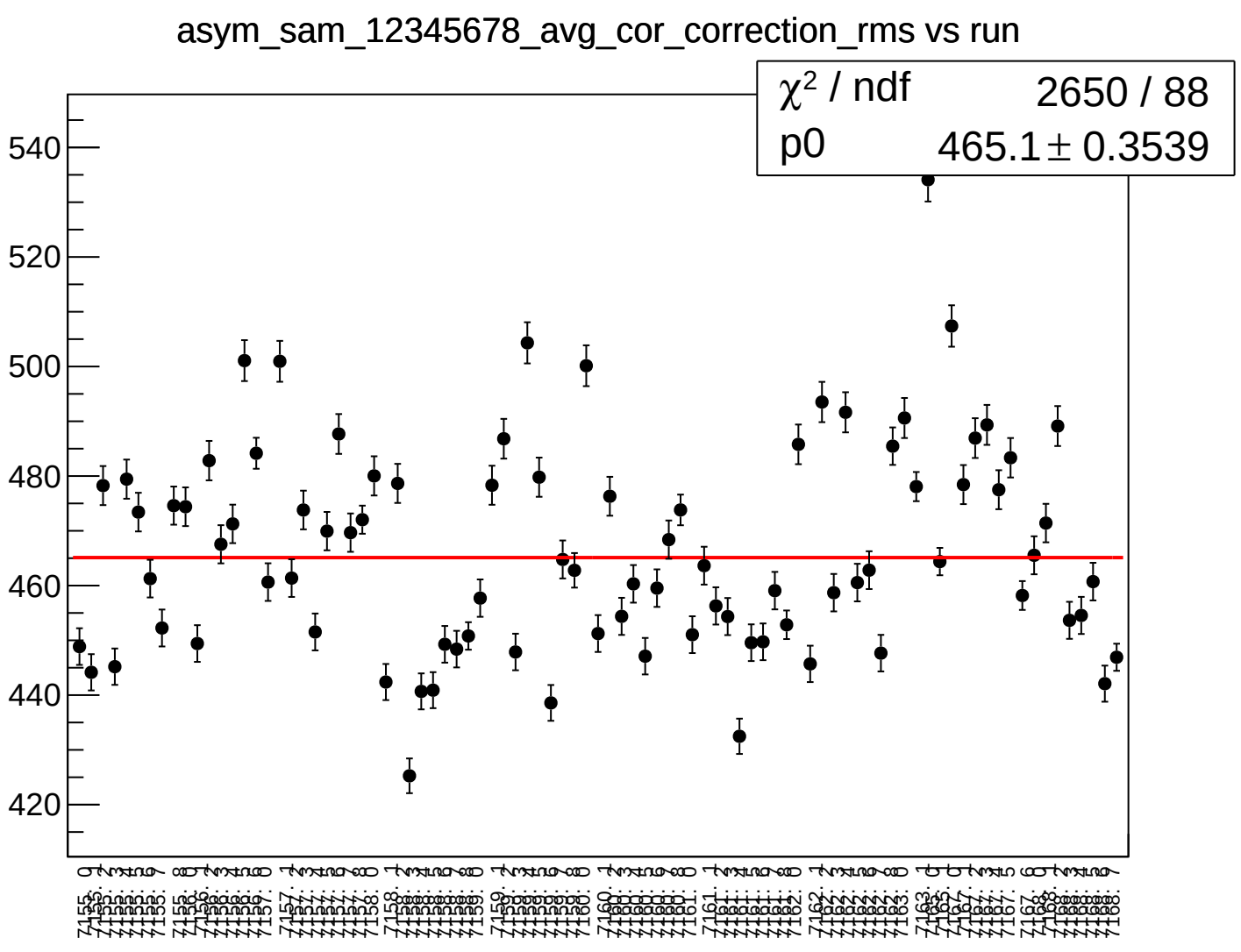

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 68.72 / 88
p0 −112.5 ± 59.49
pull
Entries 89
Mean −662.1
Std Dev 0

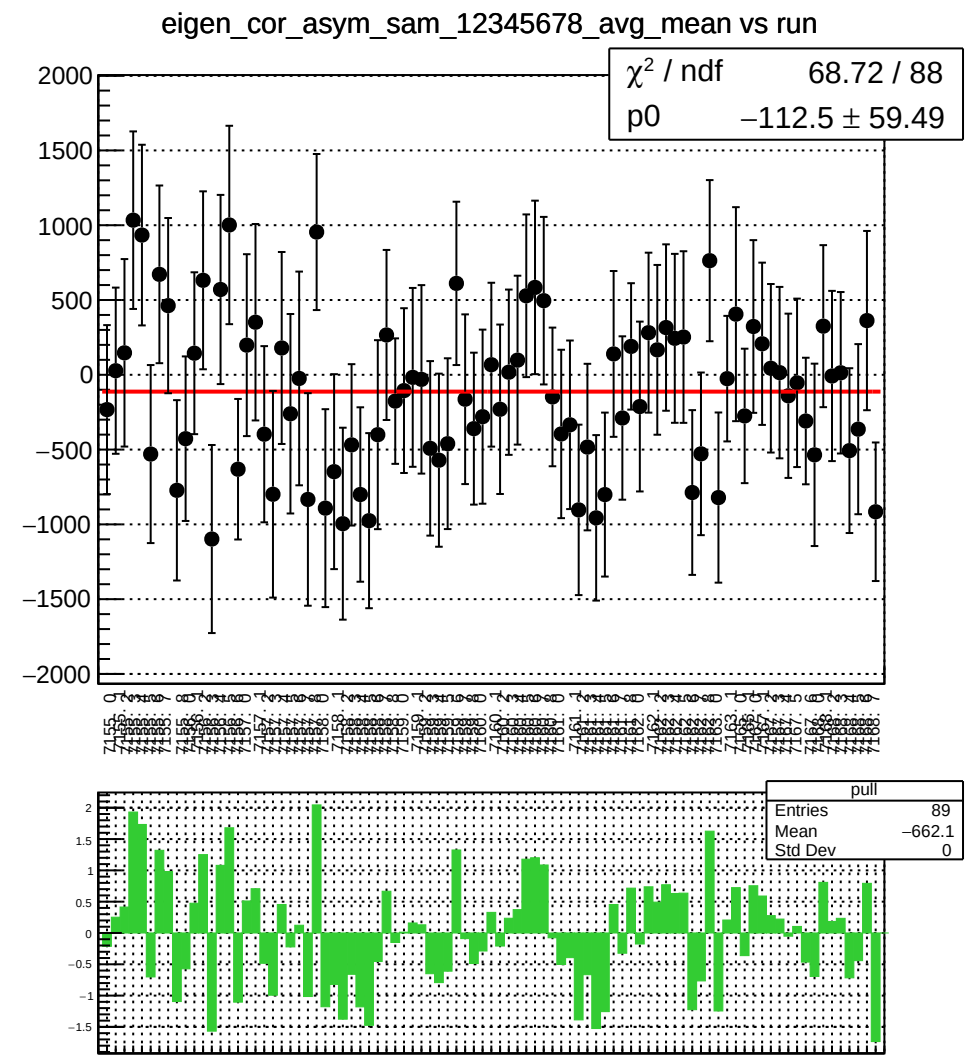

pull1D
Entries 89
Mean 0.002456
Std Dev 0.8787

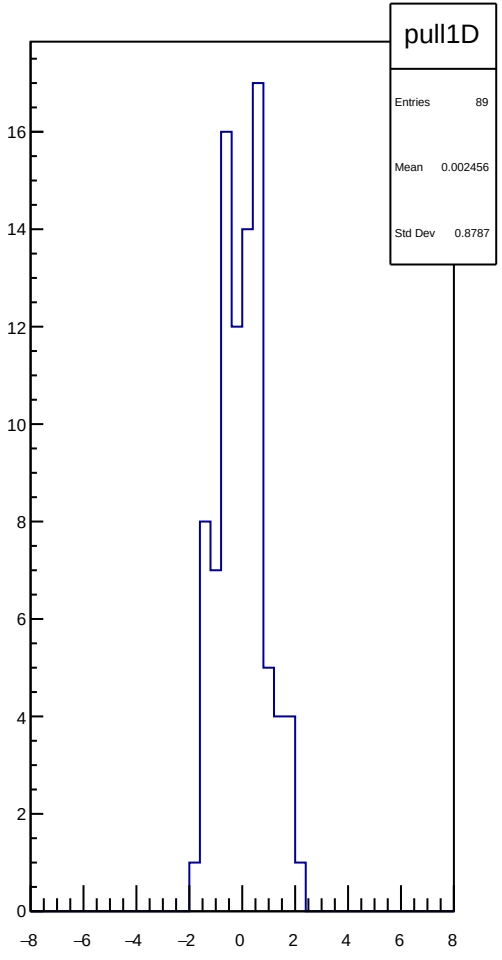

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8415 / 88
p0 55.2 ± 0.04207
70
65
60
55
50

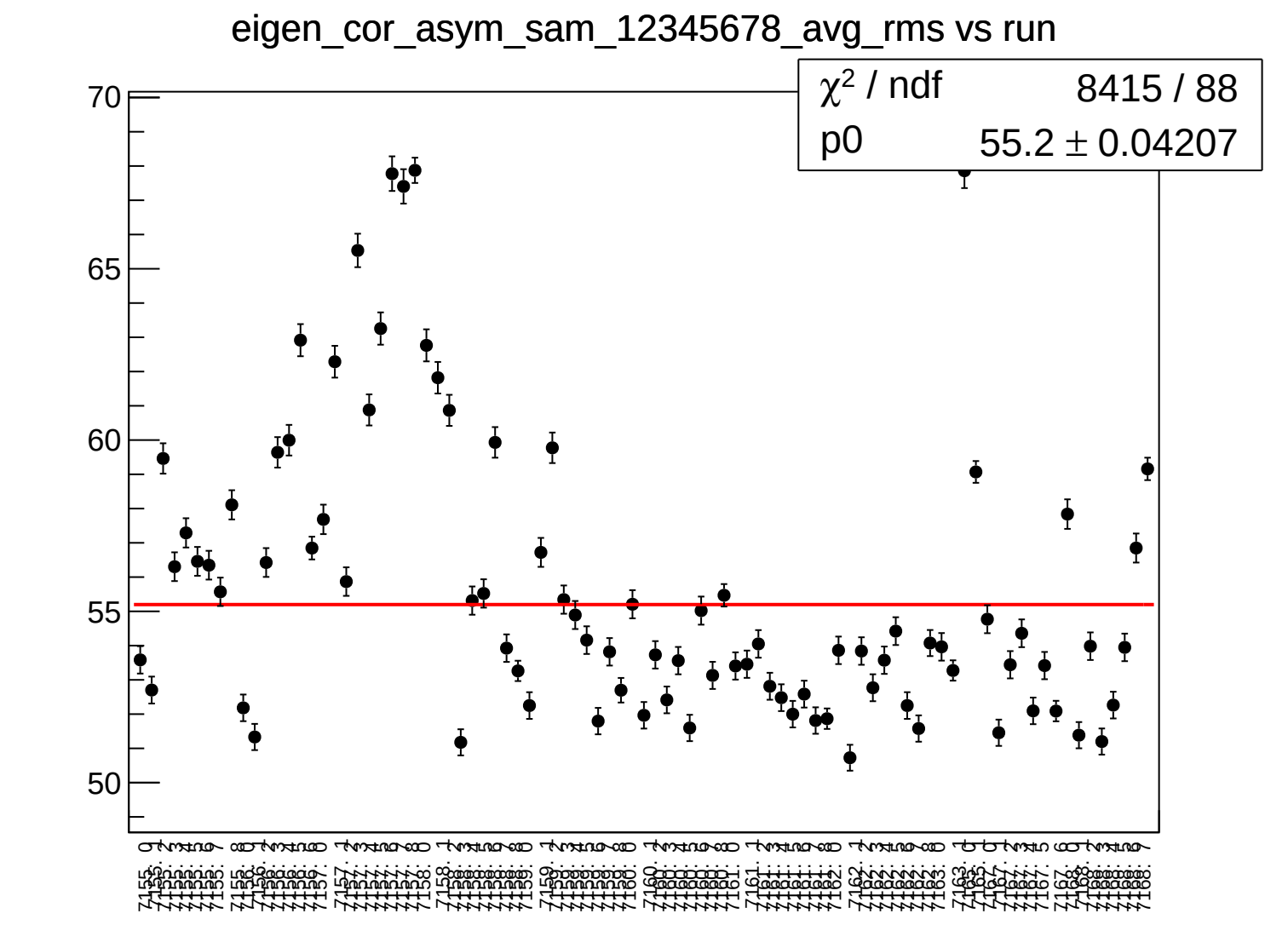

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 65.54 / 88
p0 521.6 ± 500.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −85.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

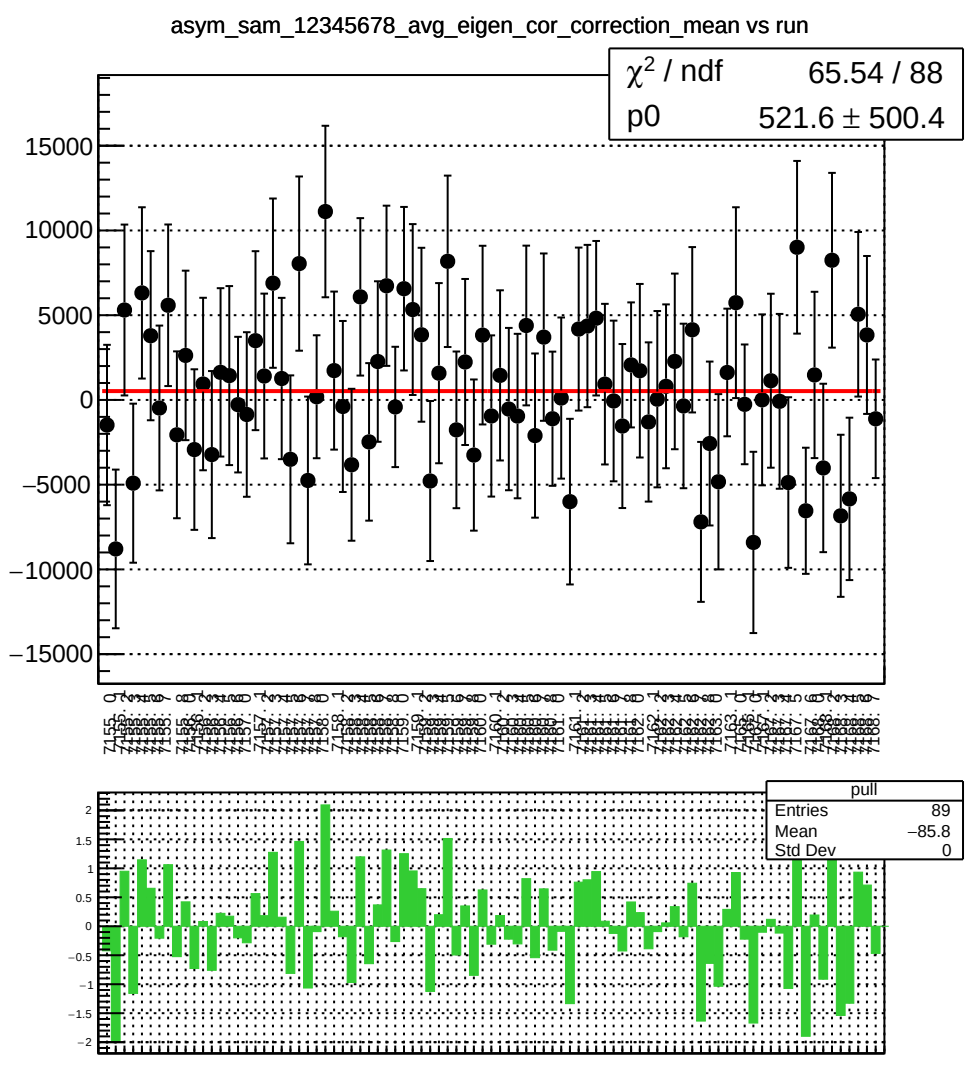

pull1D
Entries 89
Mean 0.01899
Std Dev 0.8579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

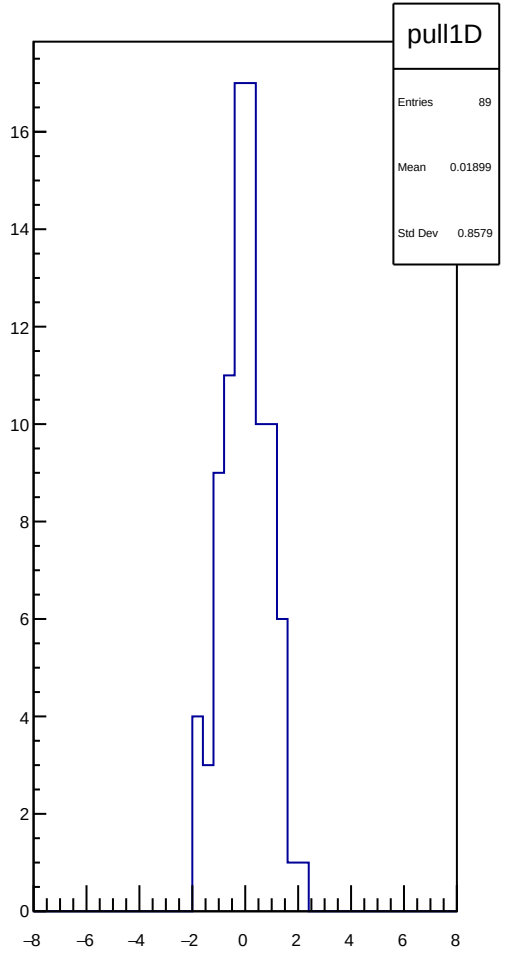

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 2650 / 88
p0 465.1 ± 0.3539
540
520
500
480
460
440
420

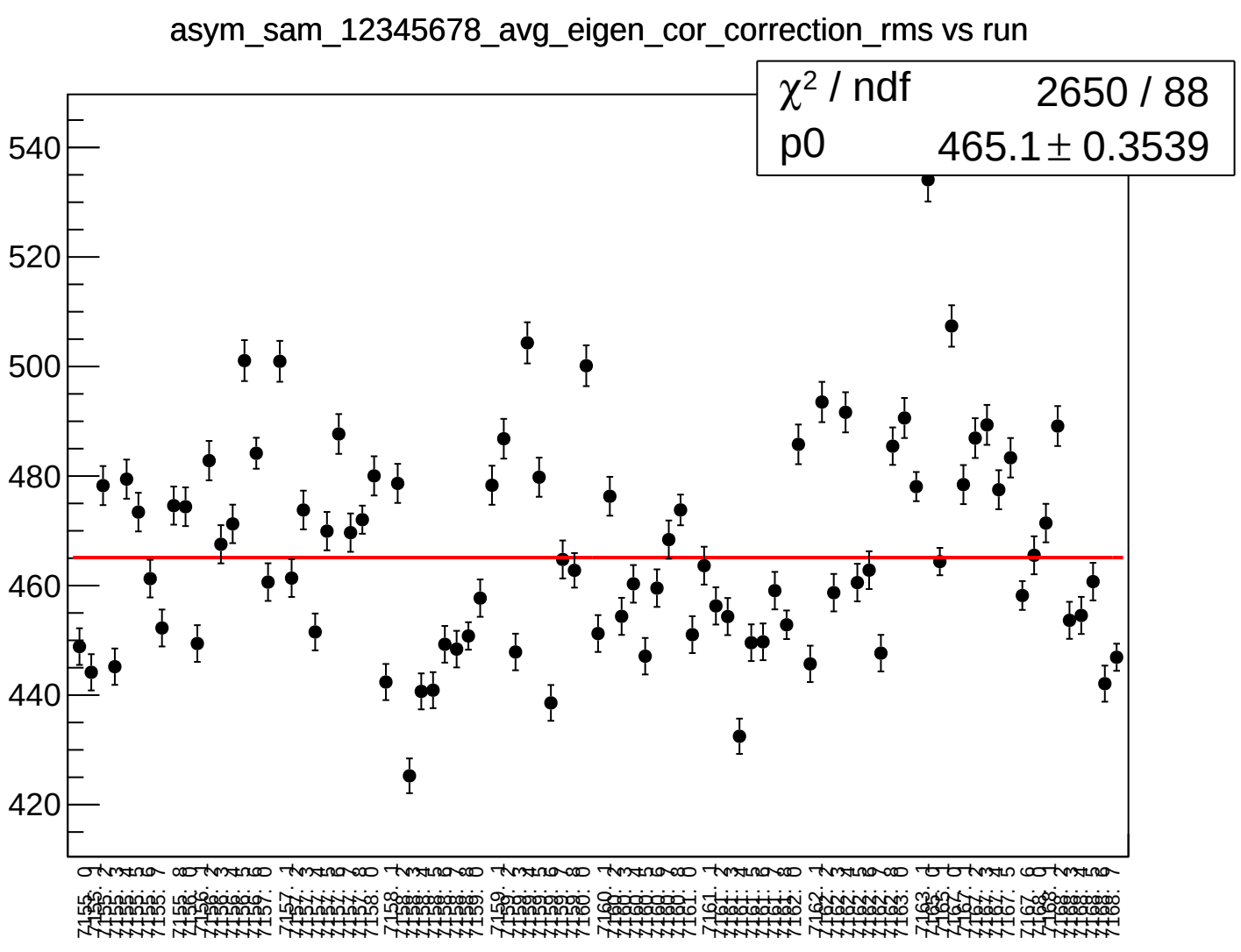

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 68.72 / 88
p0 −112.5 ± 59.49
pull
Entries 89
Mean −662.1
Std Dev 0

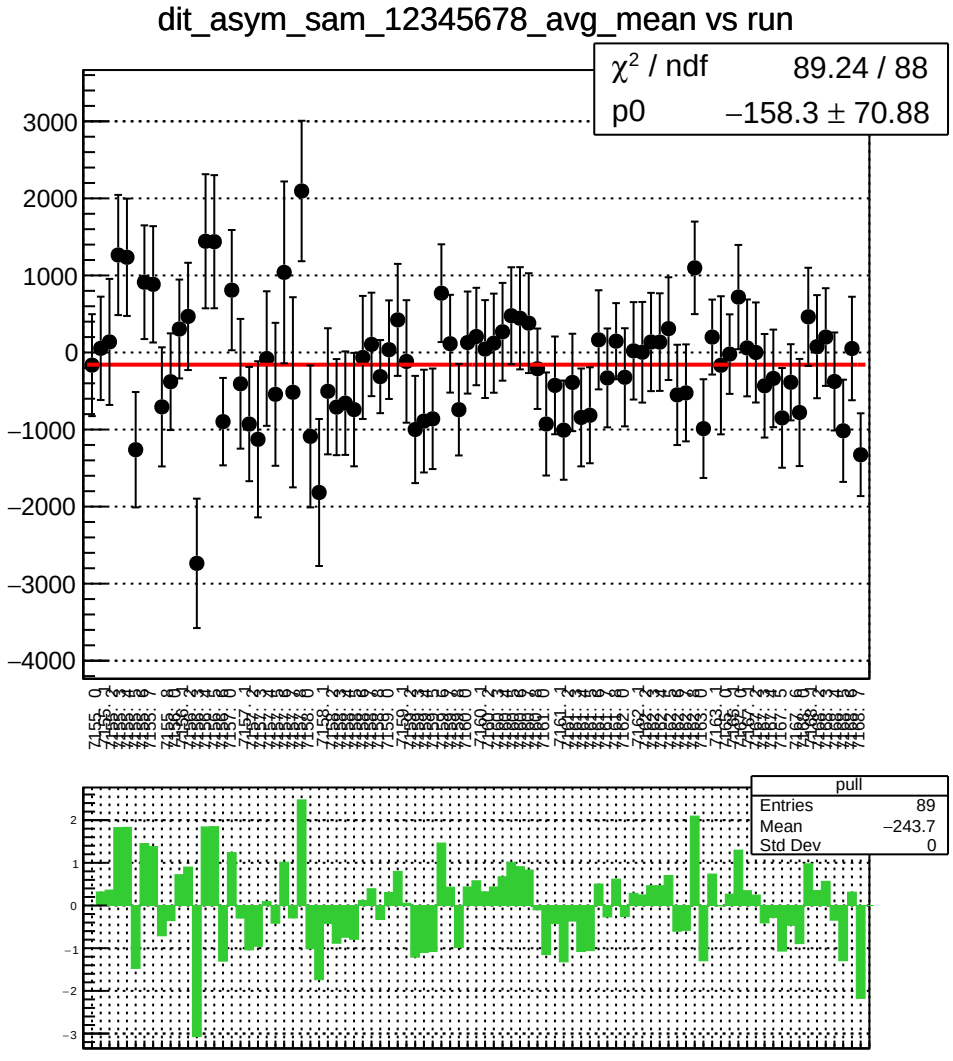

pull1D
Entries 89
Mean 0.002456
Std Dev 0.8787

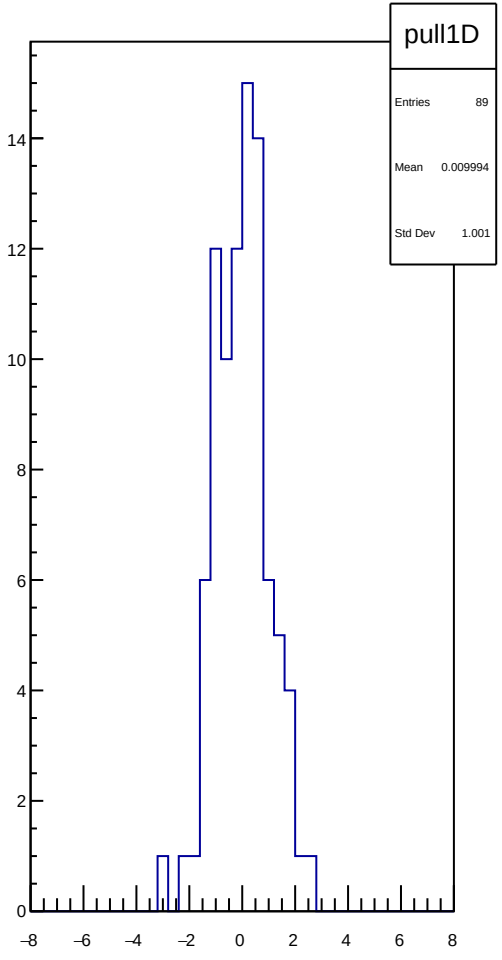

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 8415 / 88
p0 55.2 ± 0.04207
70
65
60
55
50

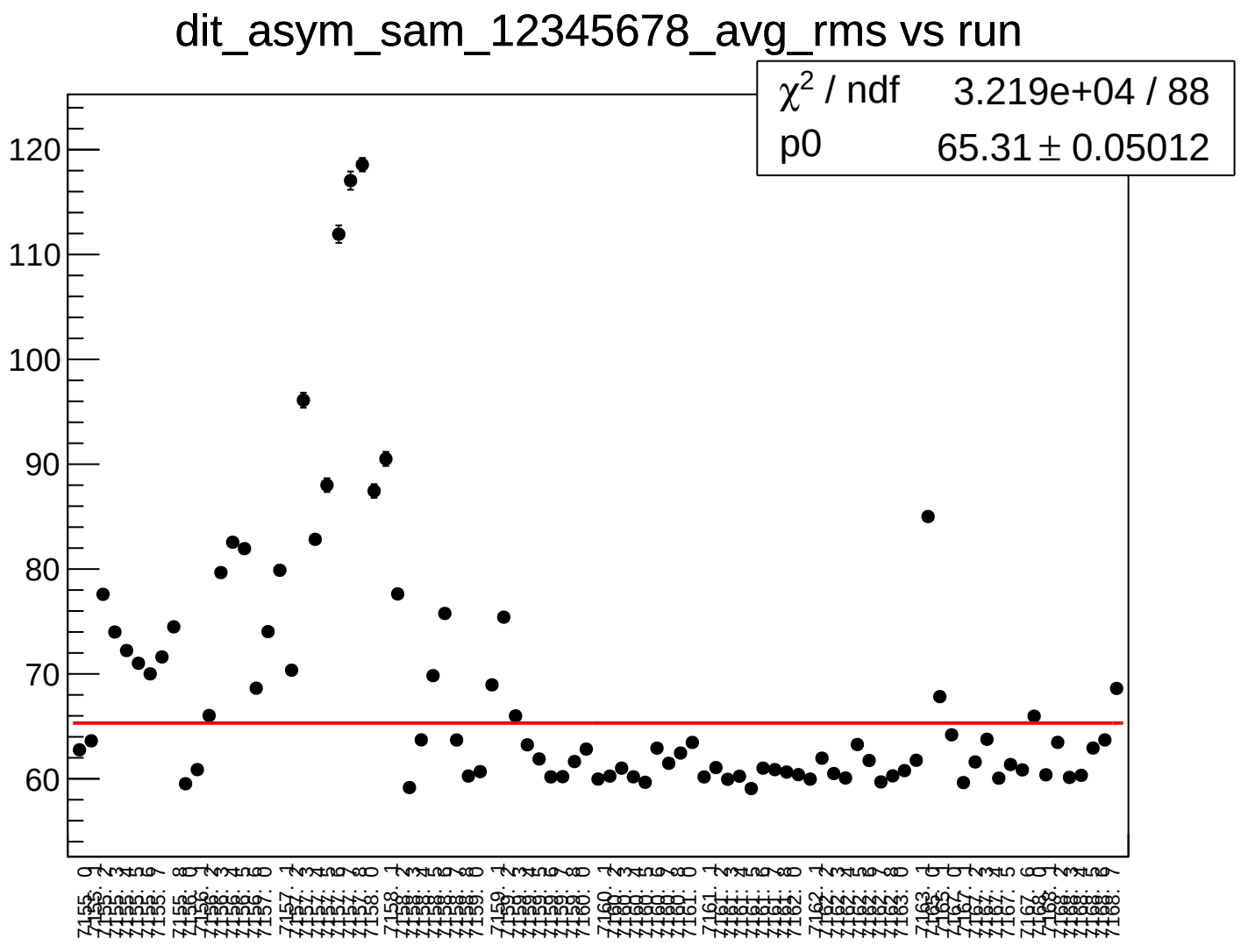

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 65.54 / 88
p0 521.6 ± 500.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −85.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

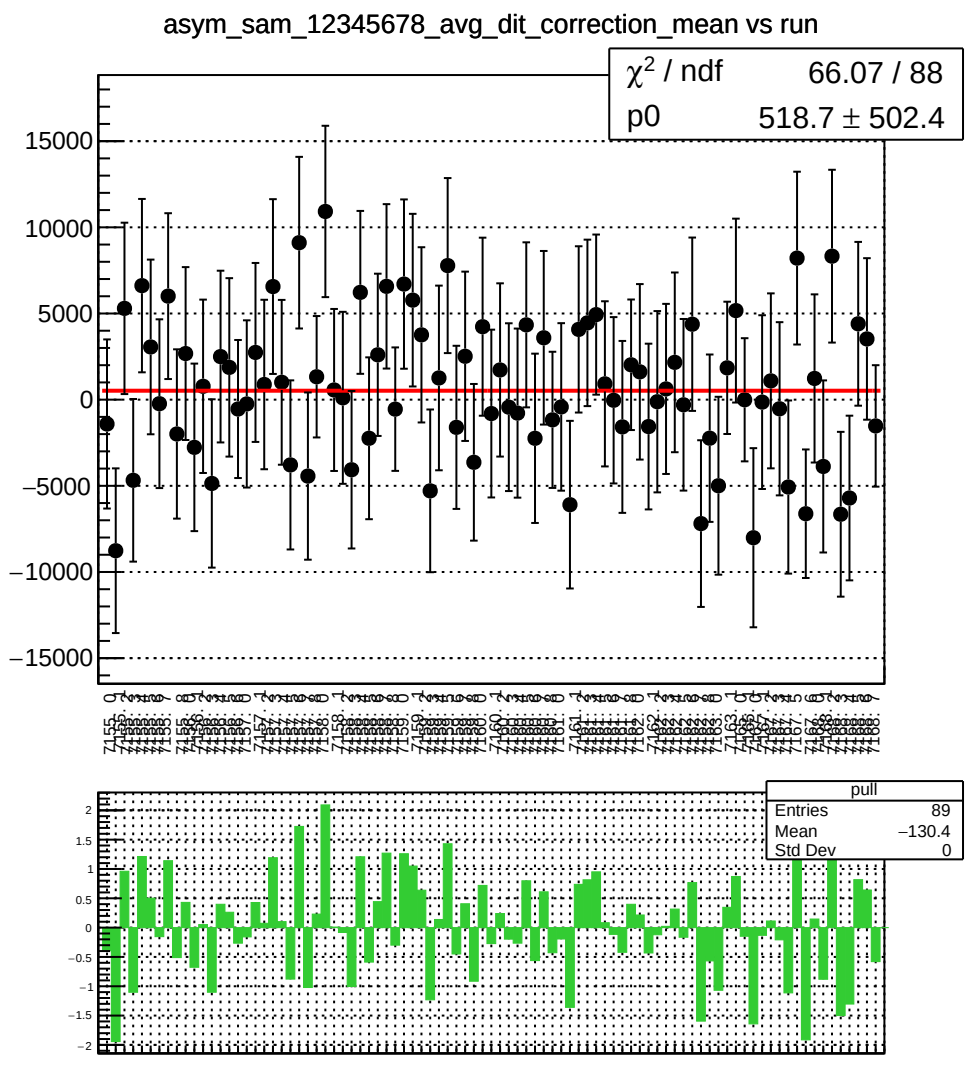

pull1D
Entries 89
Mean 0.01899
Std Dev 0.8579
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

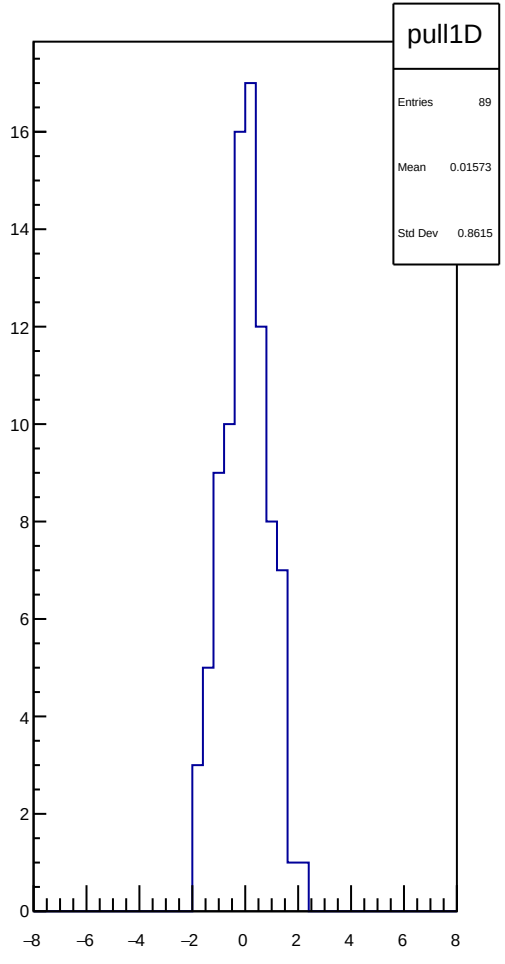

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 2650 / 88
p0 465.1 ± 0.3539
540
520
500
480
460
440
420

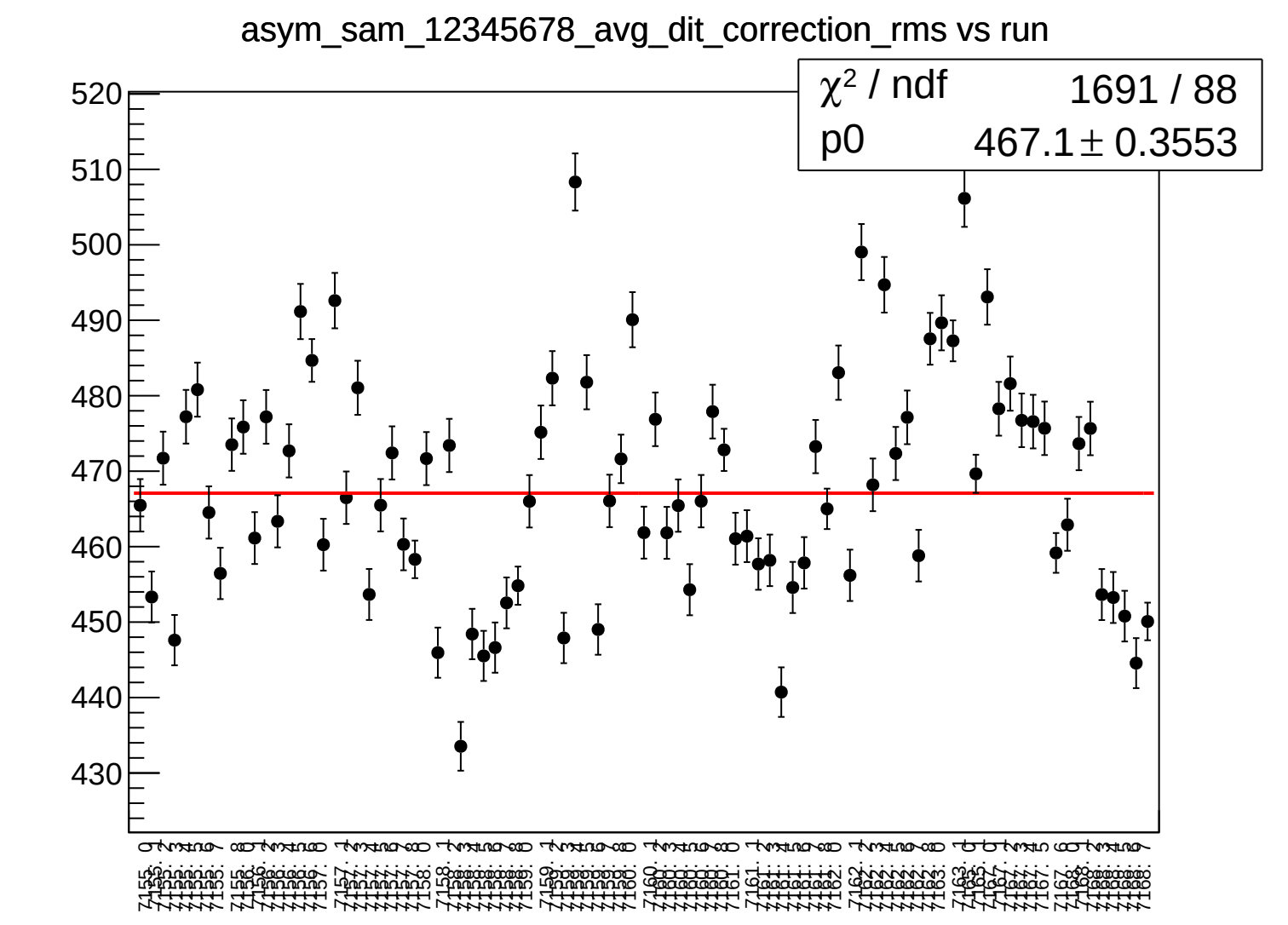

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.24 / 88
p0 −158.3 ± 70.88
pull
Entries 89
Mean −243.7
Std Dev 0

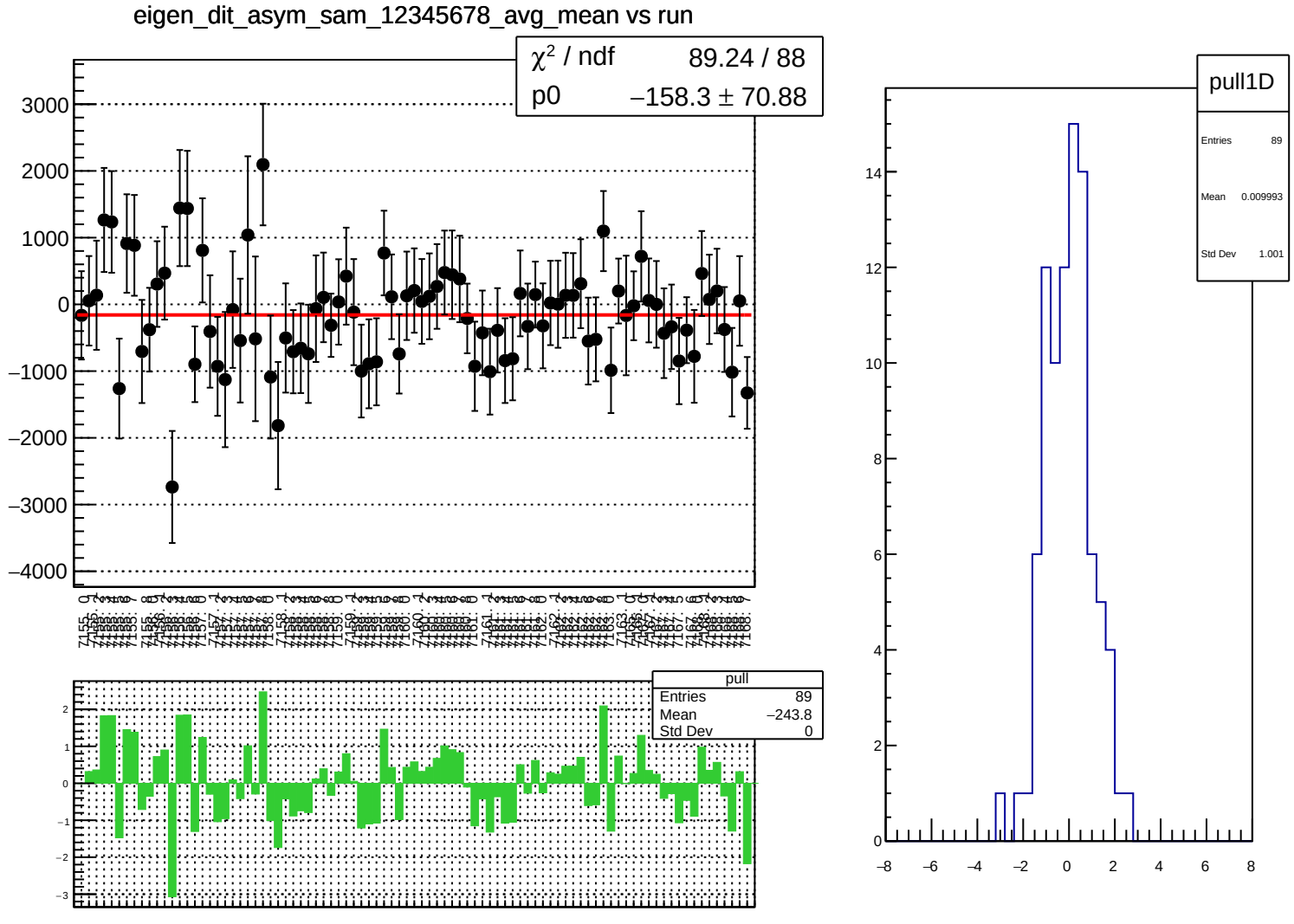

pull1D
Entries 89
Mean 0.009994
Std Dev 1.001

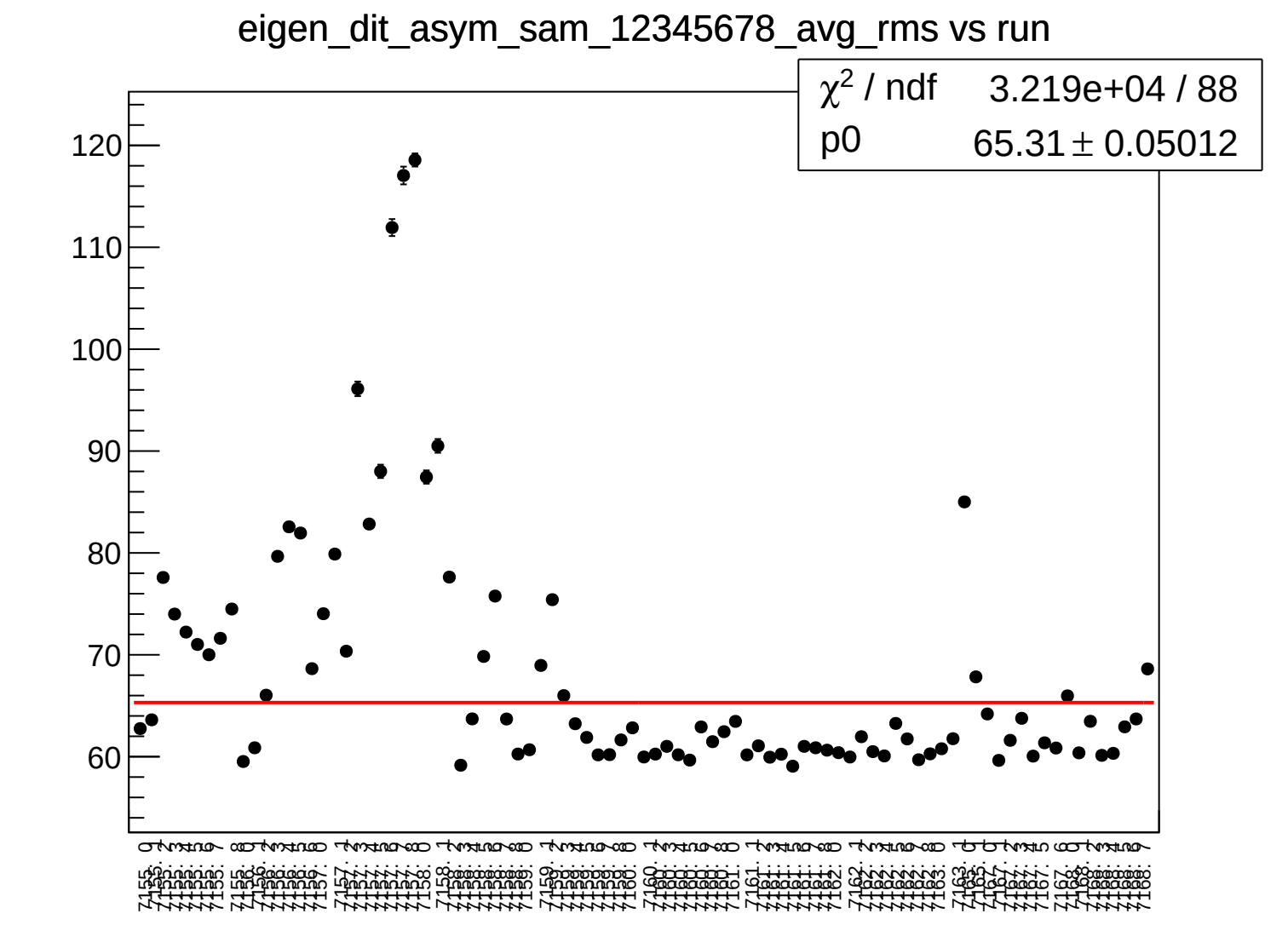

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.219e+04 / 88
p0 65.31 ± 0.05012
120
110
100
90
80
70
60

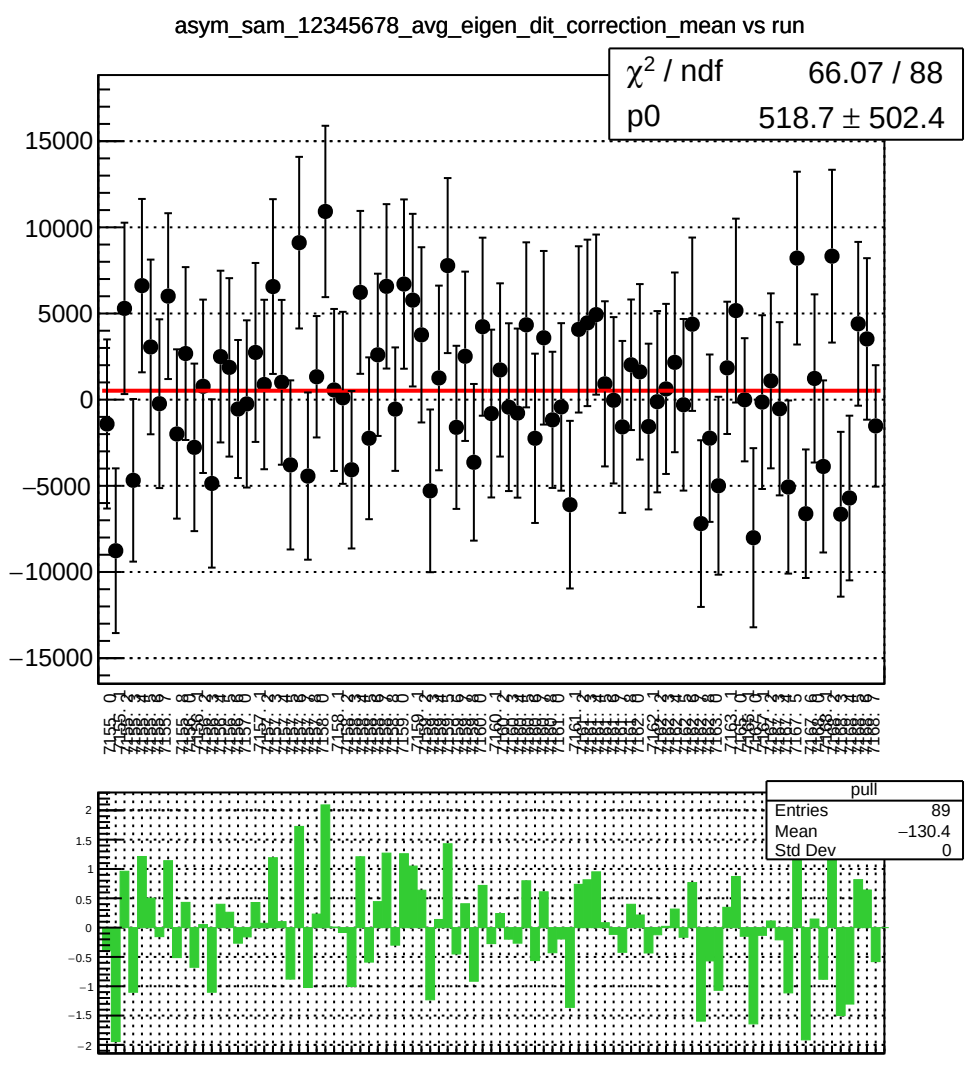

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 66.07 / 88
p0 518.7 ± 502.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

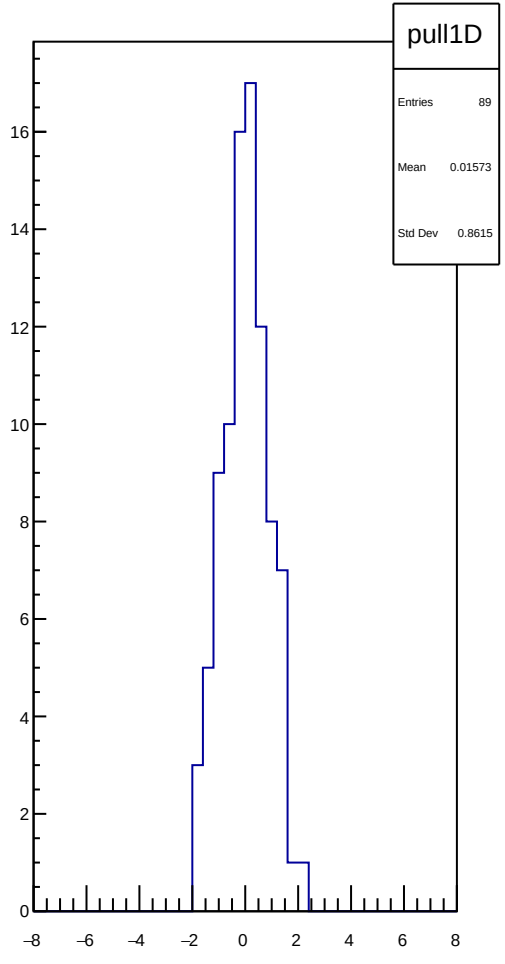

pull1D
Entries 89
Mean 0.01573
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

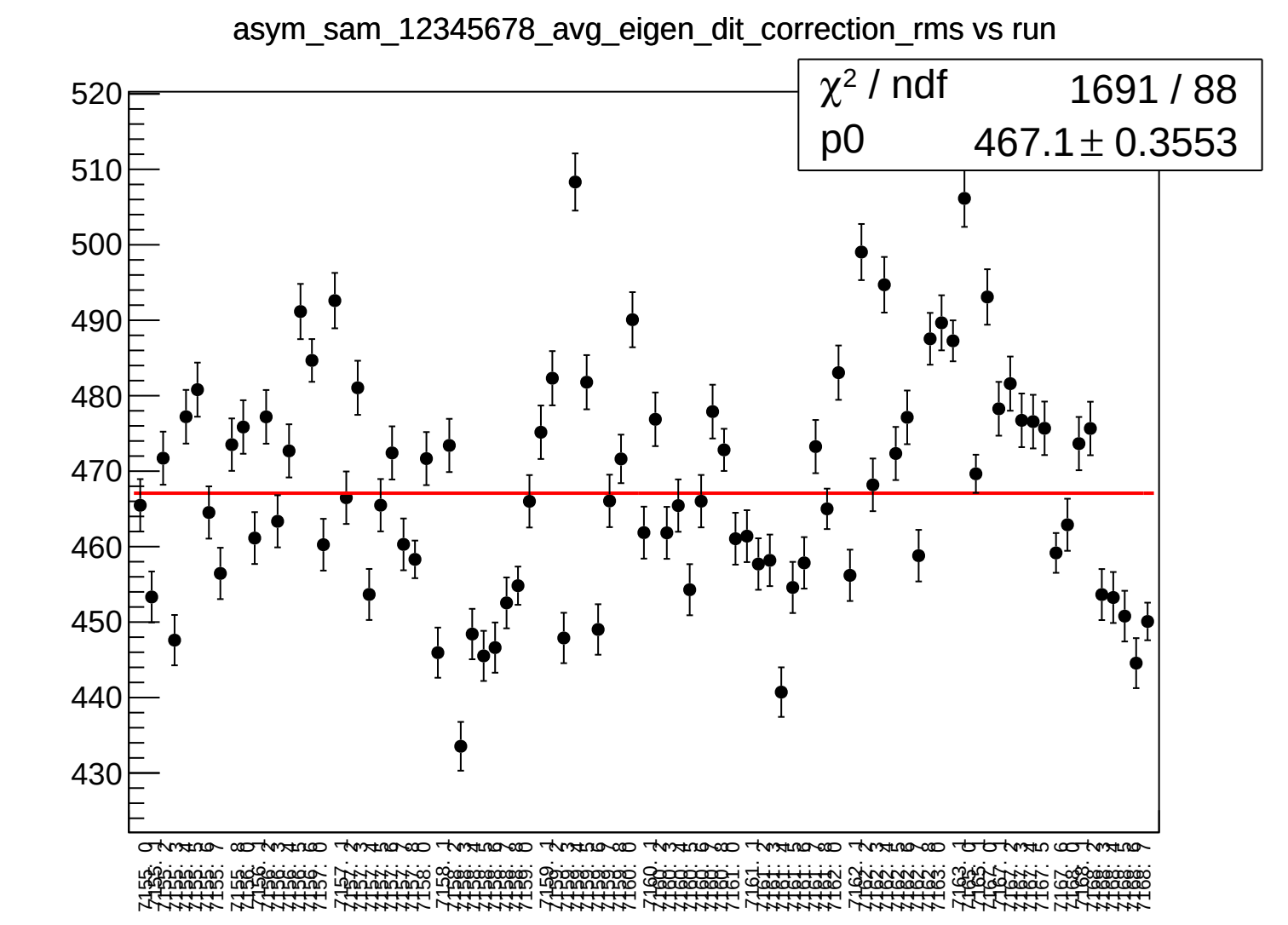

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1691 / 88
p0 467.1 ± 0.3553
520
510
500
490
480
470
460
450
440
430

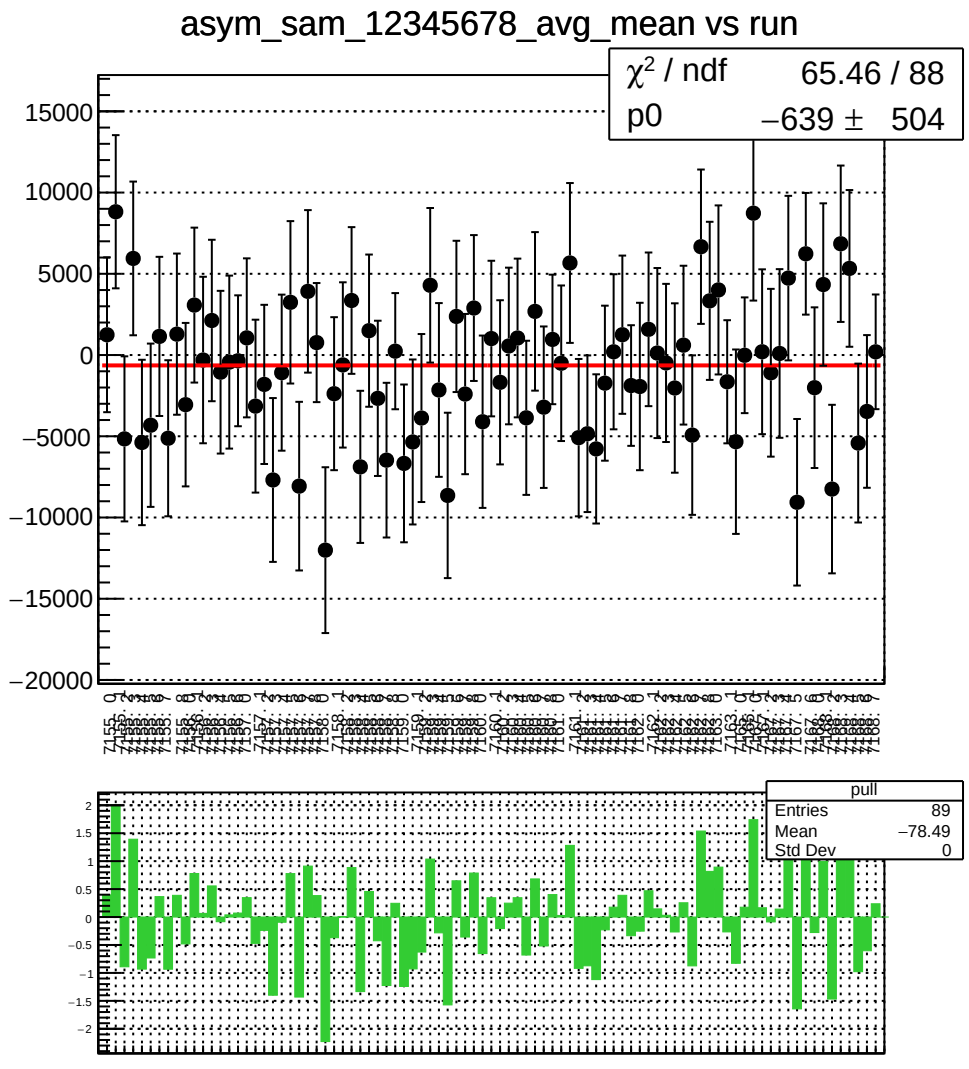

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 89.24 / 88
p0 −158.3 ± 70.88
pull
Entries 89
Mean −243.8
Std Dev 0
pull1D
Entries 89
Mean 0.009993
Std Dev 1.001

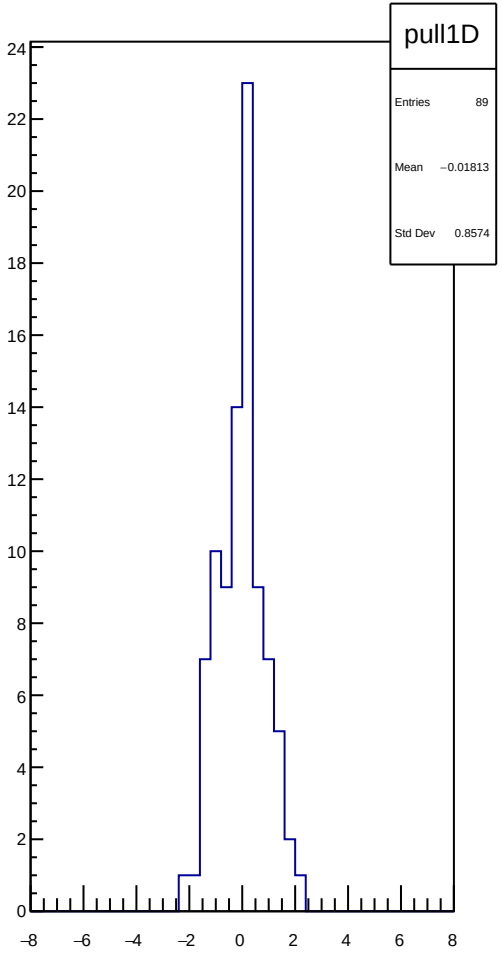

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3.219e+04 / 88
p0 65.31 ± 0.05012
120
110
100
90
80
70
60

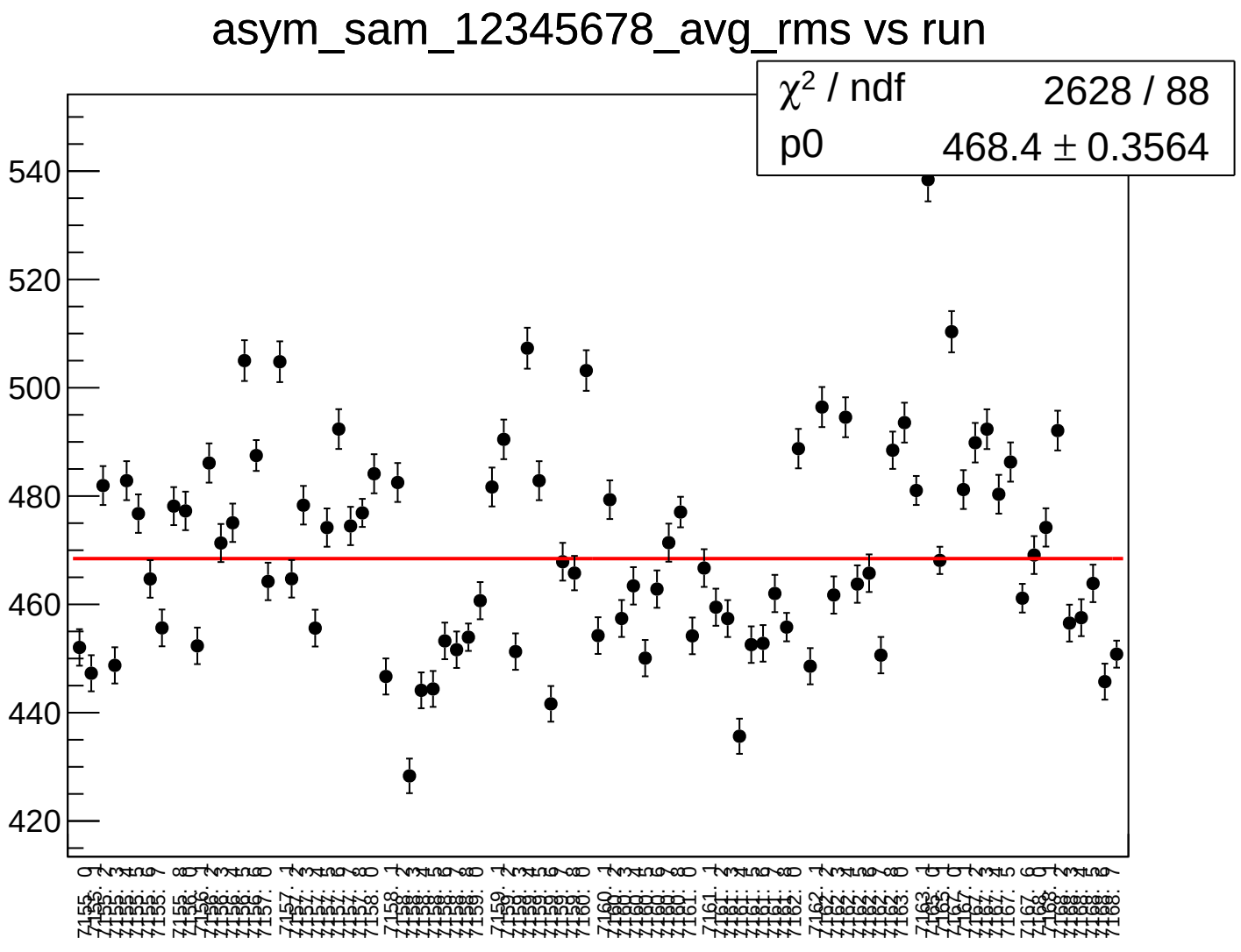

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 66.07 / 88
p0 518.7 ± 502.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 89
Mean −130.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

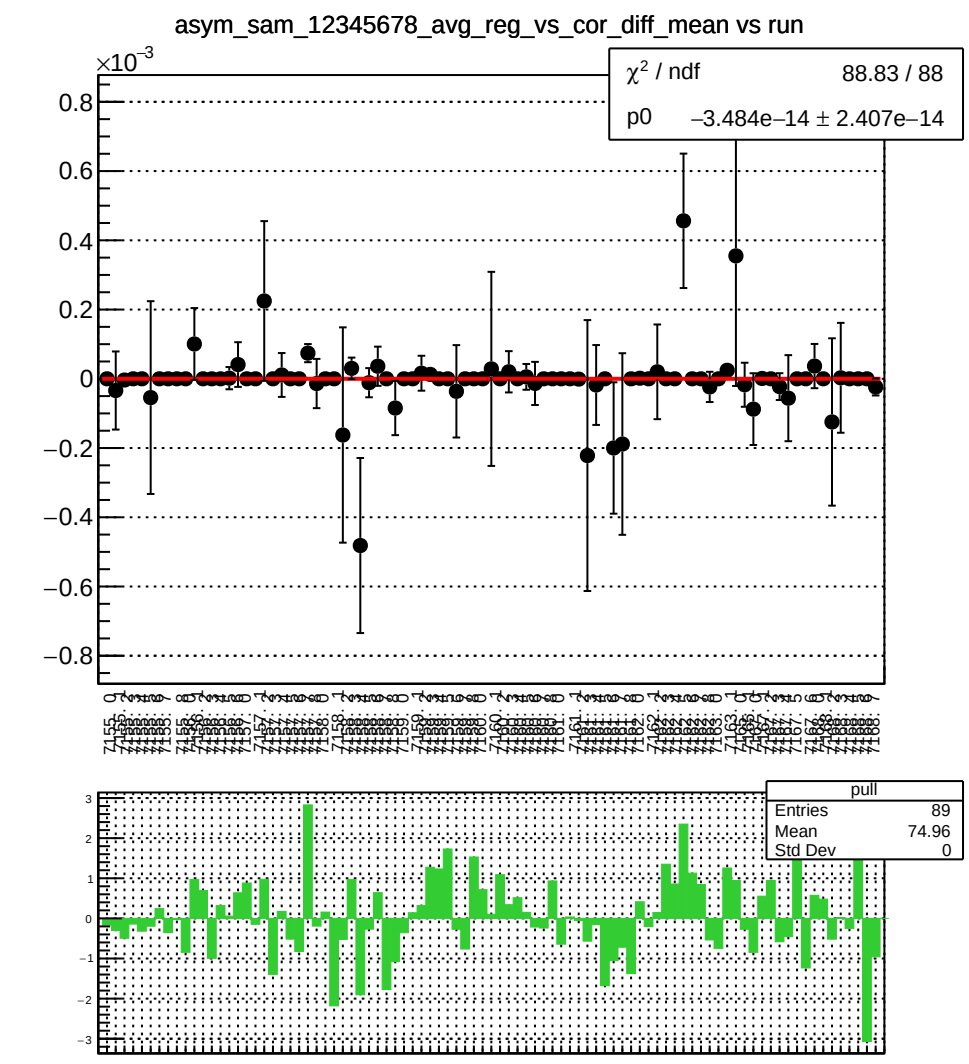

pull1D
Entries 89
Mean 0.01573
Std Dev 0.8615
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

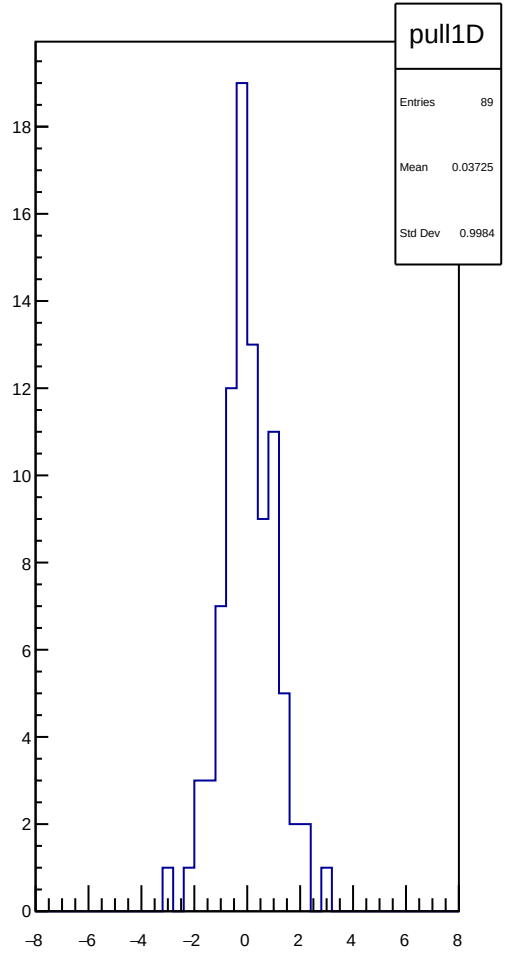

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1691 / 88
p0 467.1 ± 0.3553
520
510
500
490
480
470
460
450
440
430

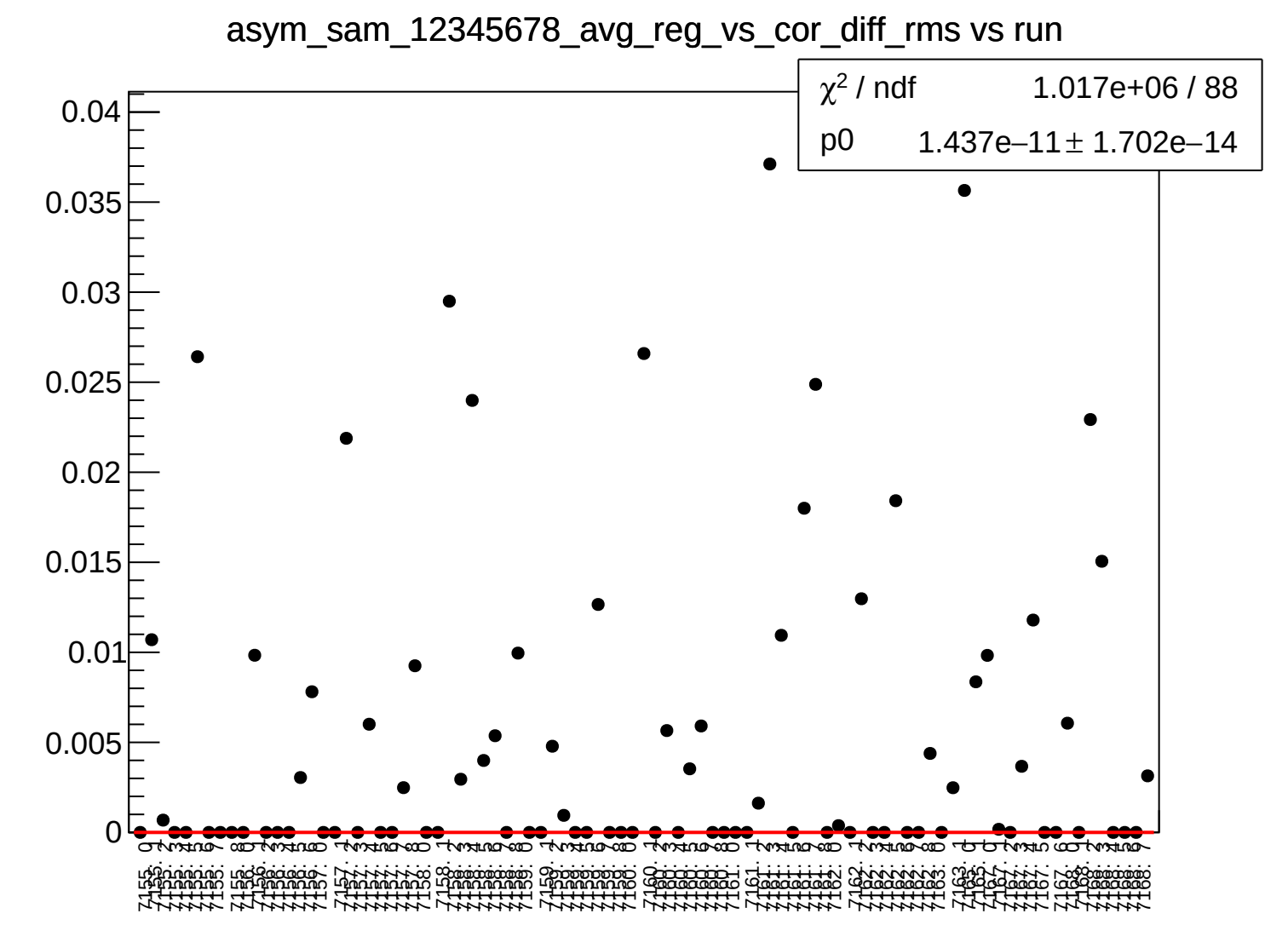

asym_sam_12345678_avg_mean vs run
χ² / ndf 65.46 / 88
p0 −639 ± 504
pull
Entries 89
Mean −78.49
Std Dev 0

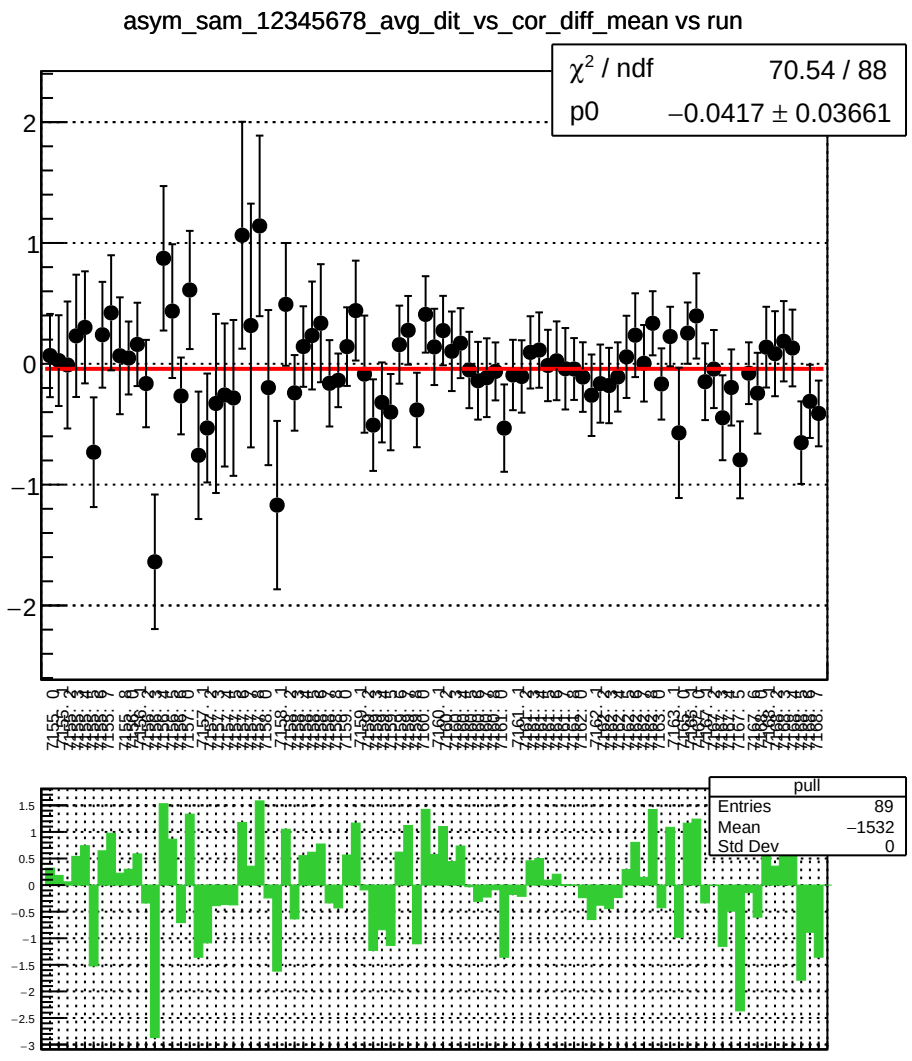

pull1D
Entries 89
Mean −0.01813
Std Dev 0.8574

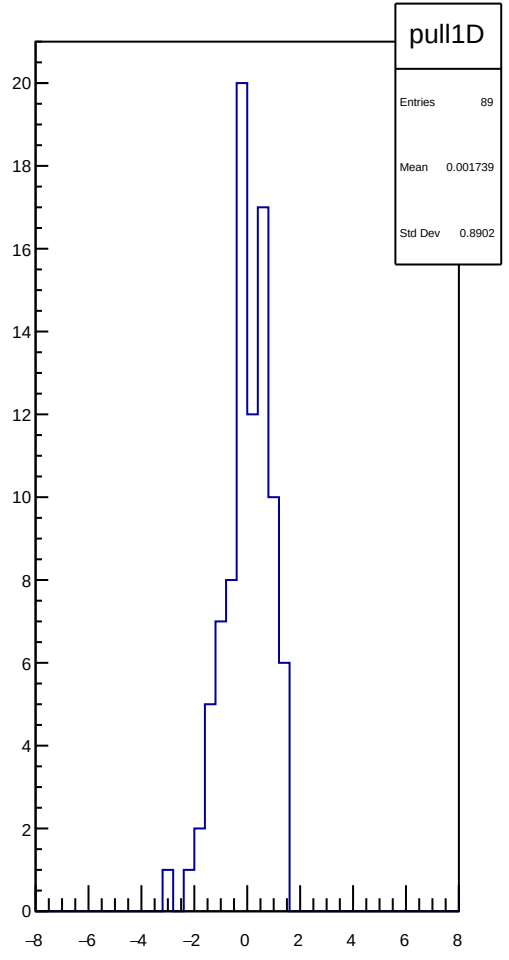

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2628 / 88
p0 468.4 ± 0.3564
540
520
500
480
460
440
420

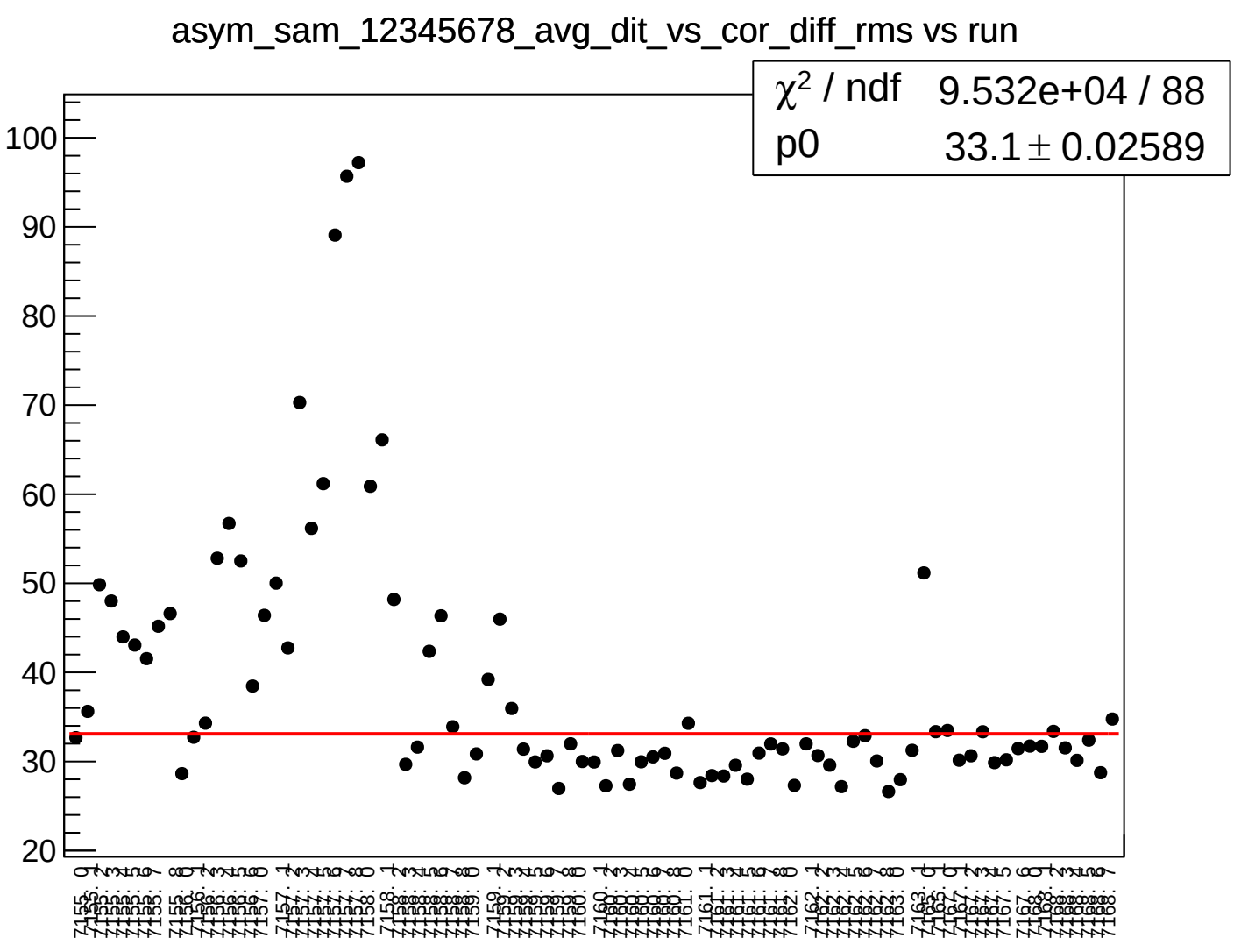

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 88.83 / 88
p0 −3.484e−14 ± 2.407e−14
pull
Entries 89
Mean 74.96
Std Dev 0

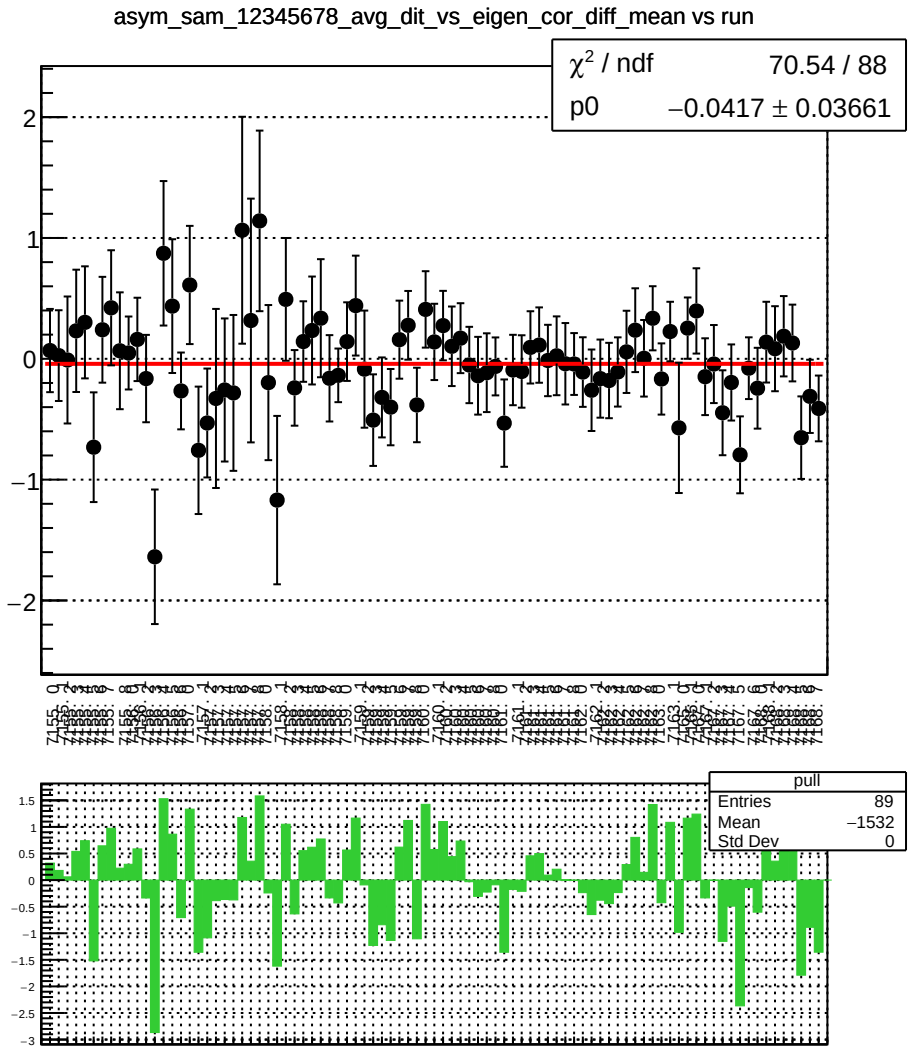

pull1D
Entries 89
Mean 0.03725
Std Dev 0.9984

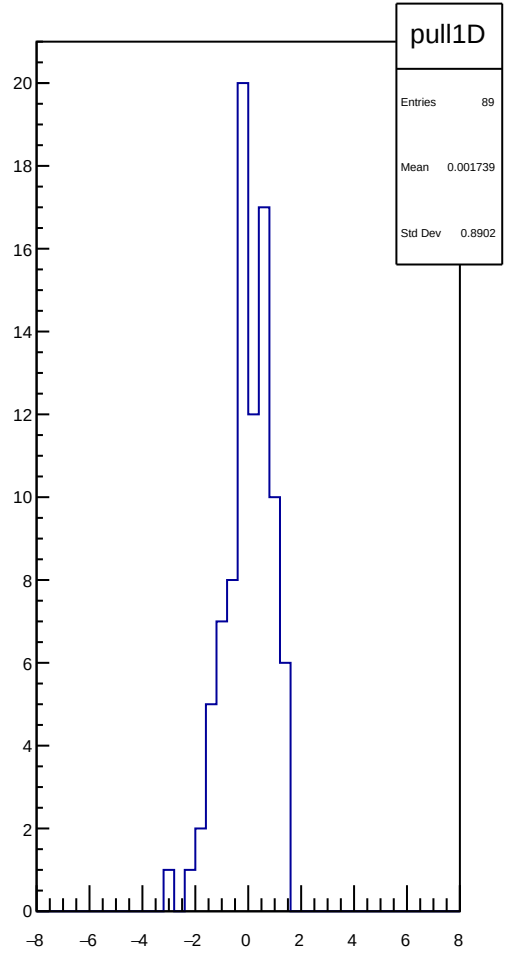

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.017e+06 / 88
p0 1.437e−11 ± 1.702e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

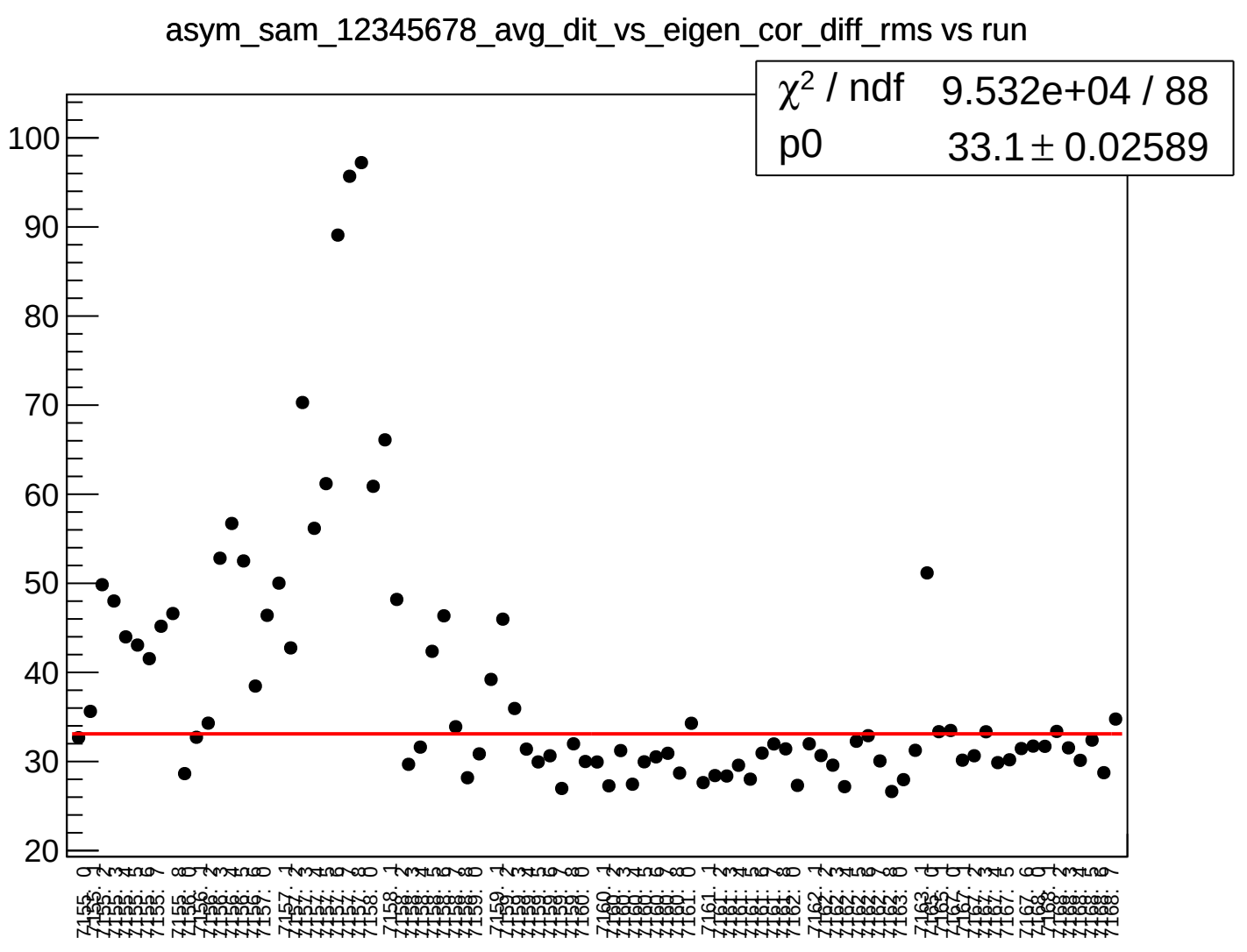

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 70.54 / 88
p0 −0.0417 ± 0.03661
pull
Entries 89
Mean −1532
Std Dev 0

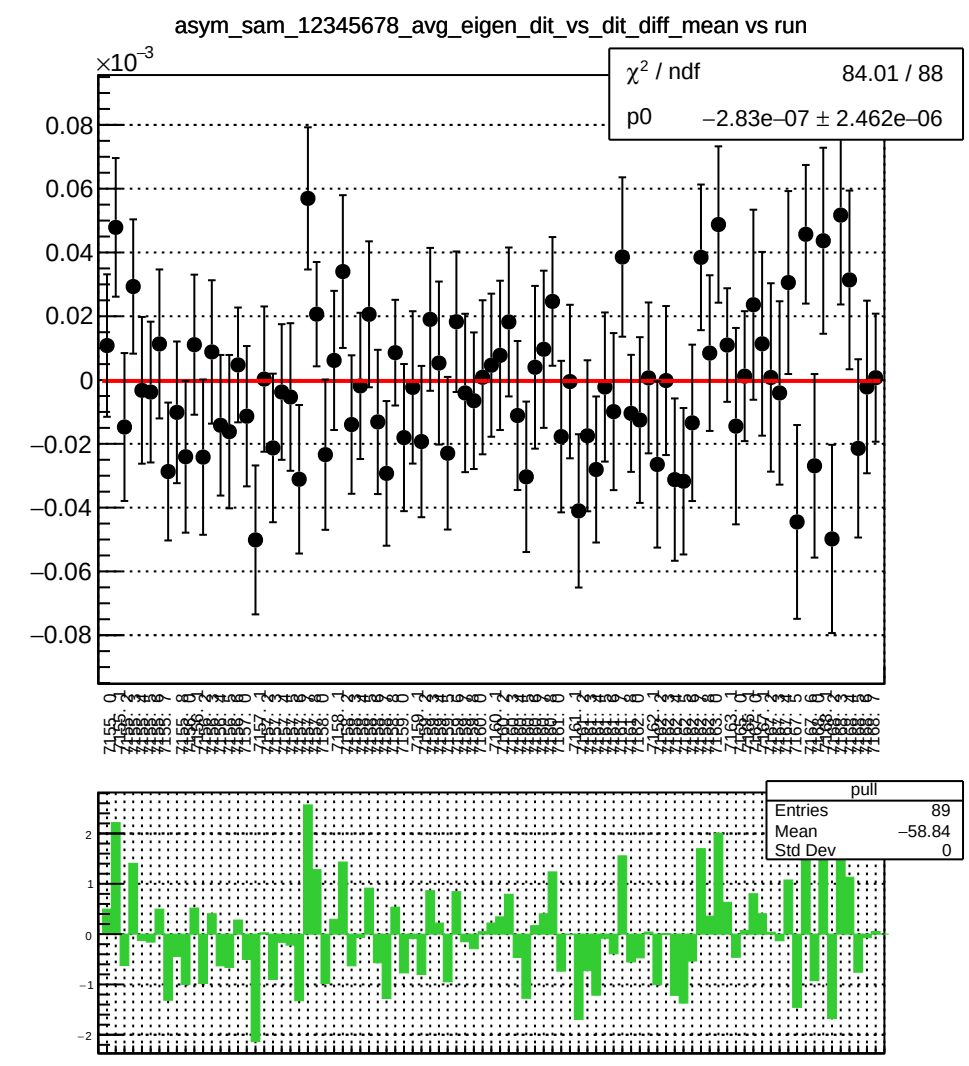

pull1D
Entries 89
Mean 0.001739
Std Dev 0.8902

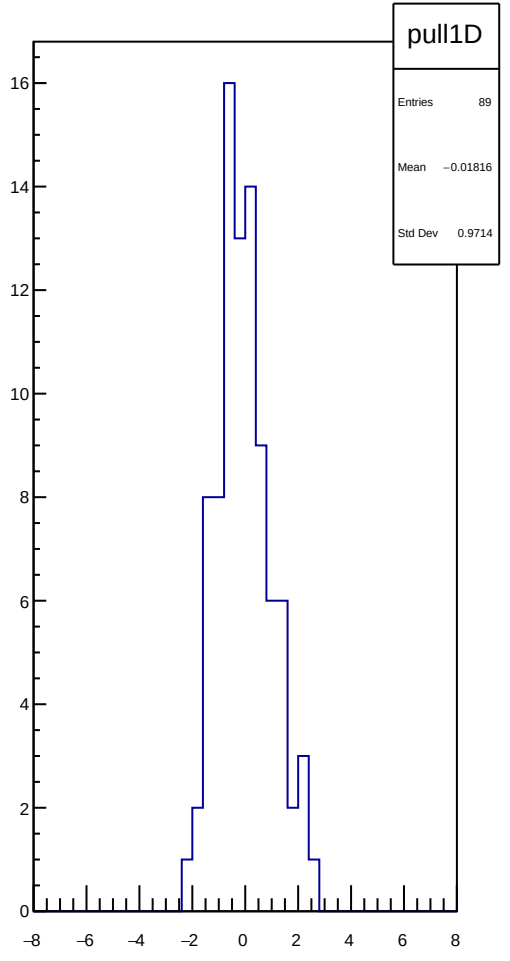

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.532e+04 / 88
p0 33.1 ± 0.02589
100
90
80
70
60
50
40
30
20

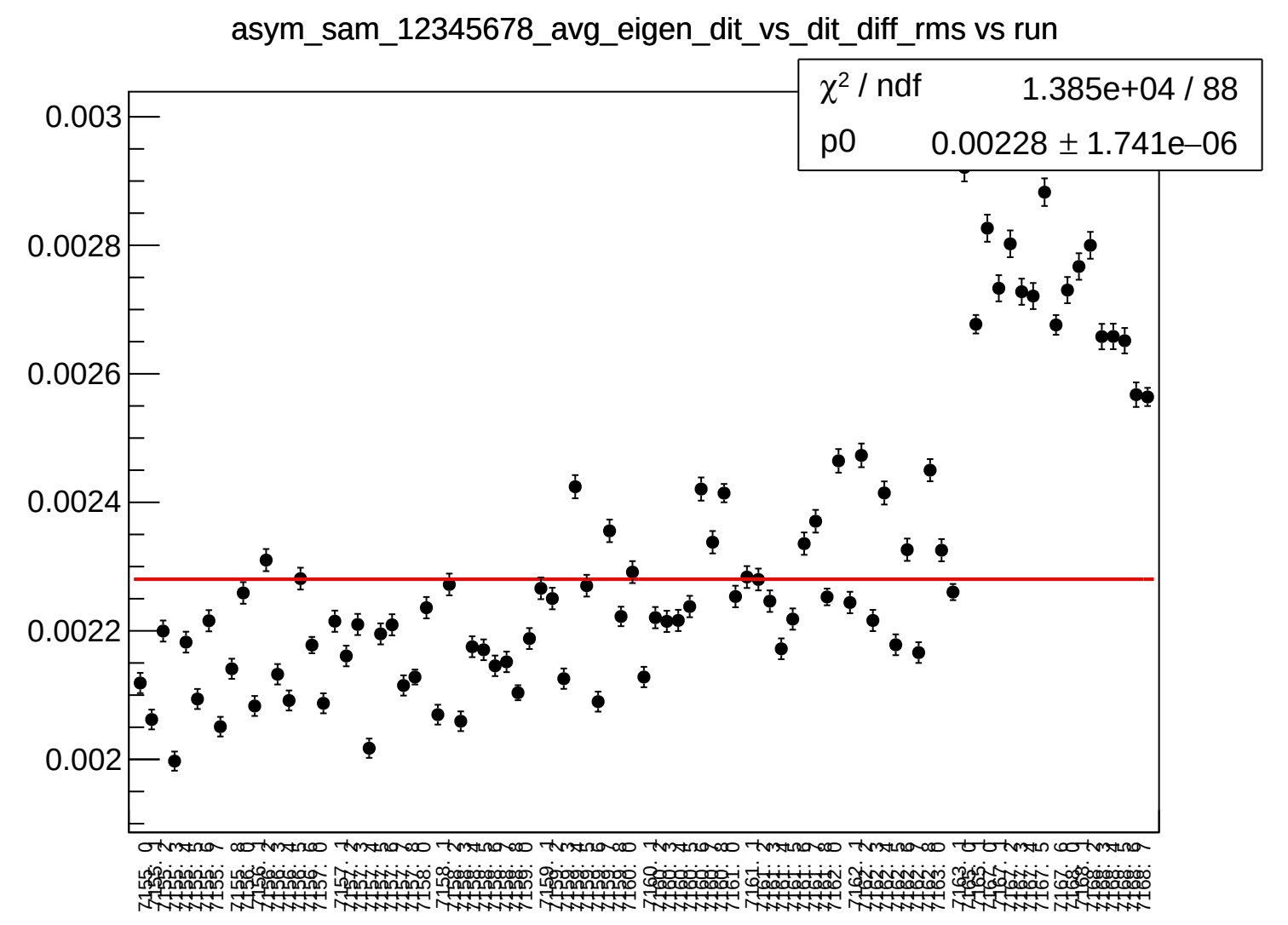

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.54 / 88
p0 −0.0417 ± 0.03661
pull
Entries 89
Mean −1532
Std Dev 0

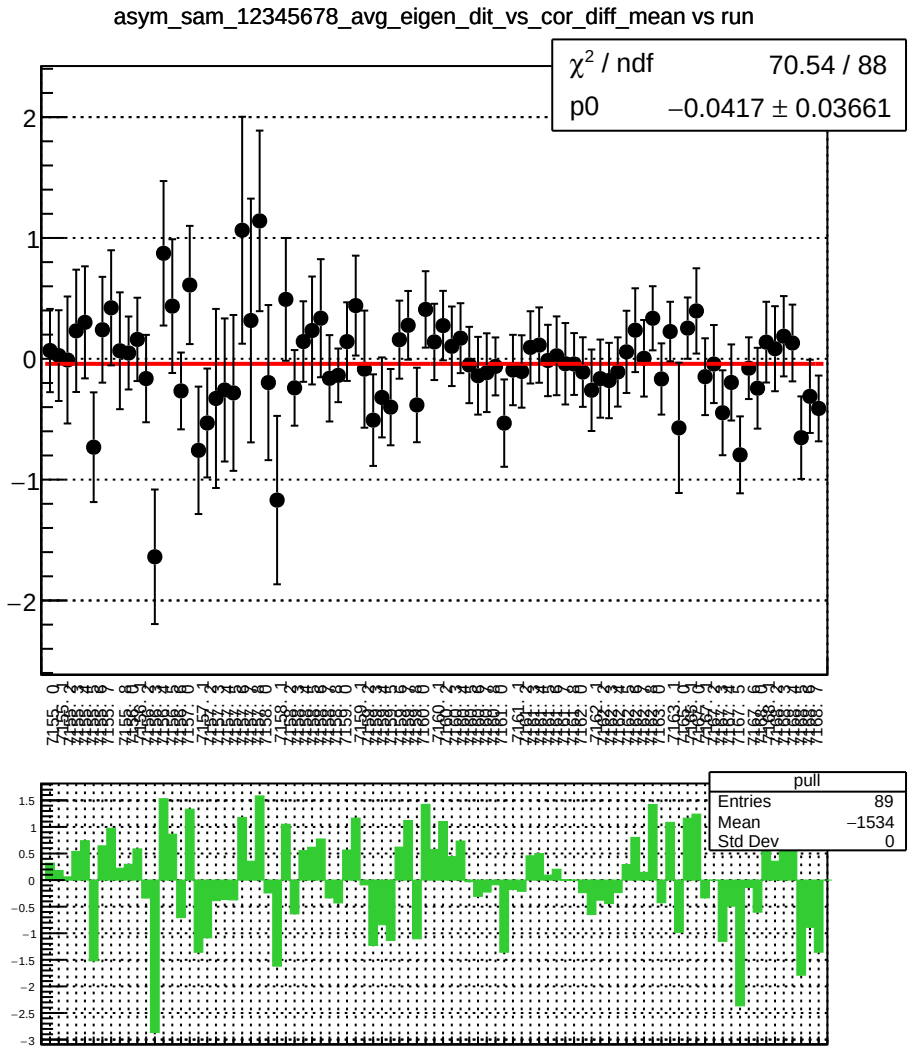

pull1D
Entries 89
Mean 0.001739
Std Dev 0.8902

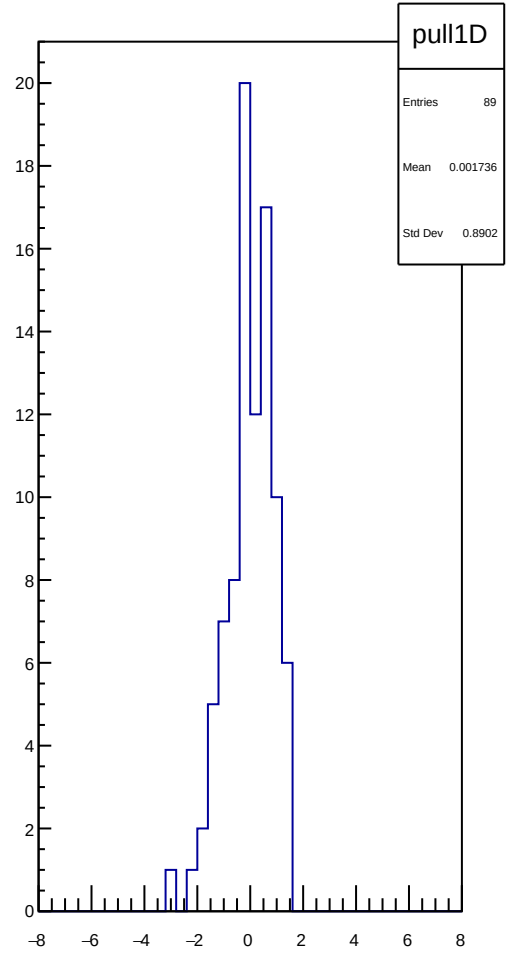

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.532e+04 / 88
p0 33.1 ± 0.02589
100
90
80
70
60
50
40
30
20

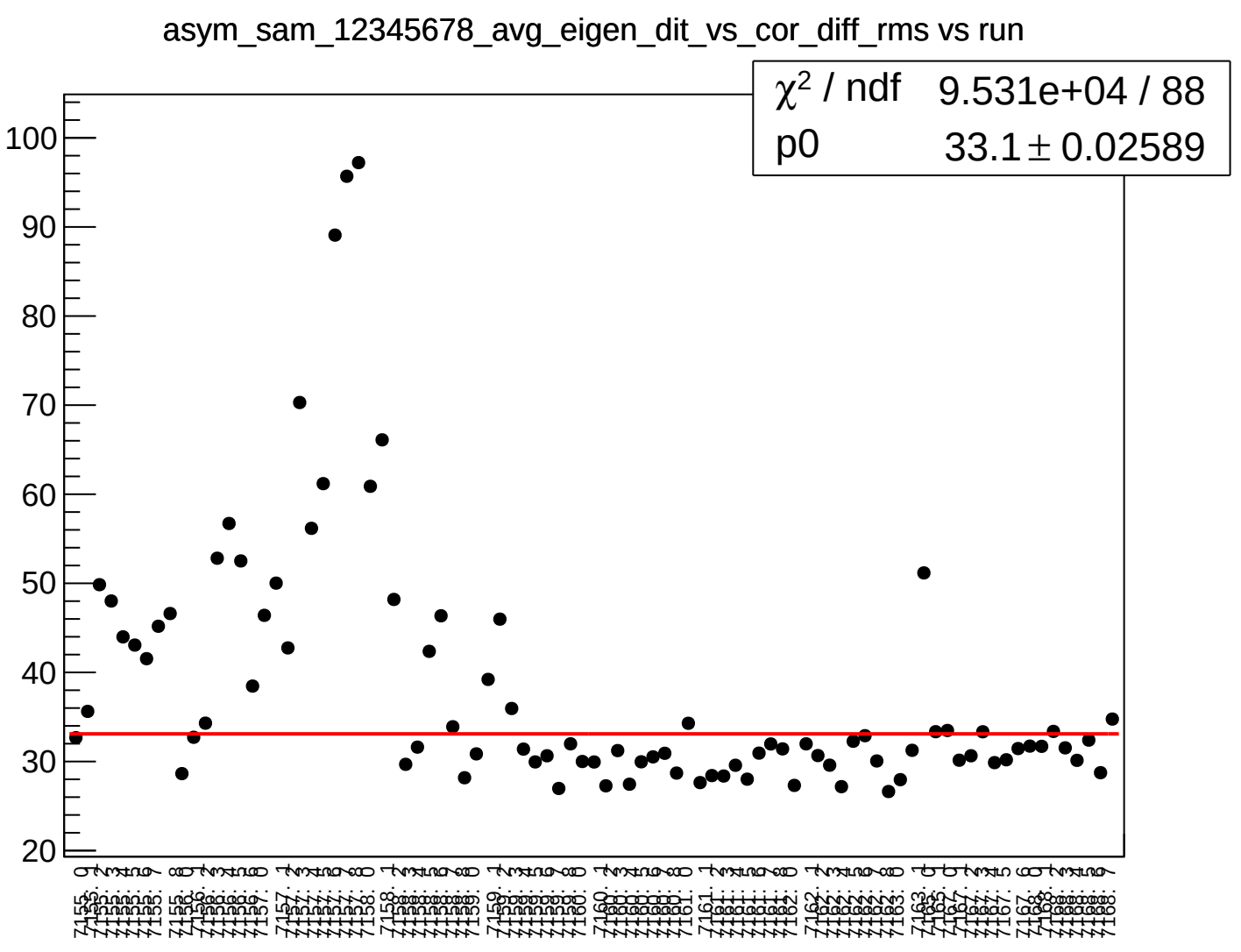

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.01 / 88
p0 −2.83e−07 ± 2.462e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 89
Mean −58.84
Std Dev 0
2
1
0
−1
−2

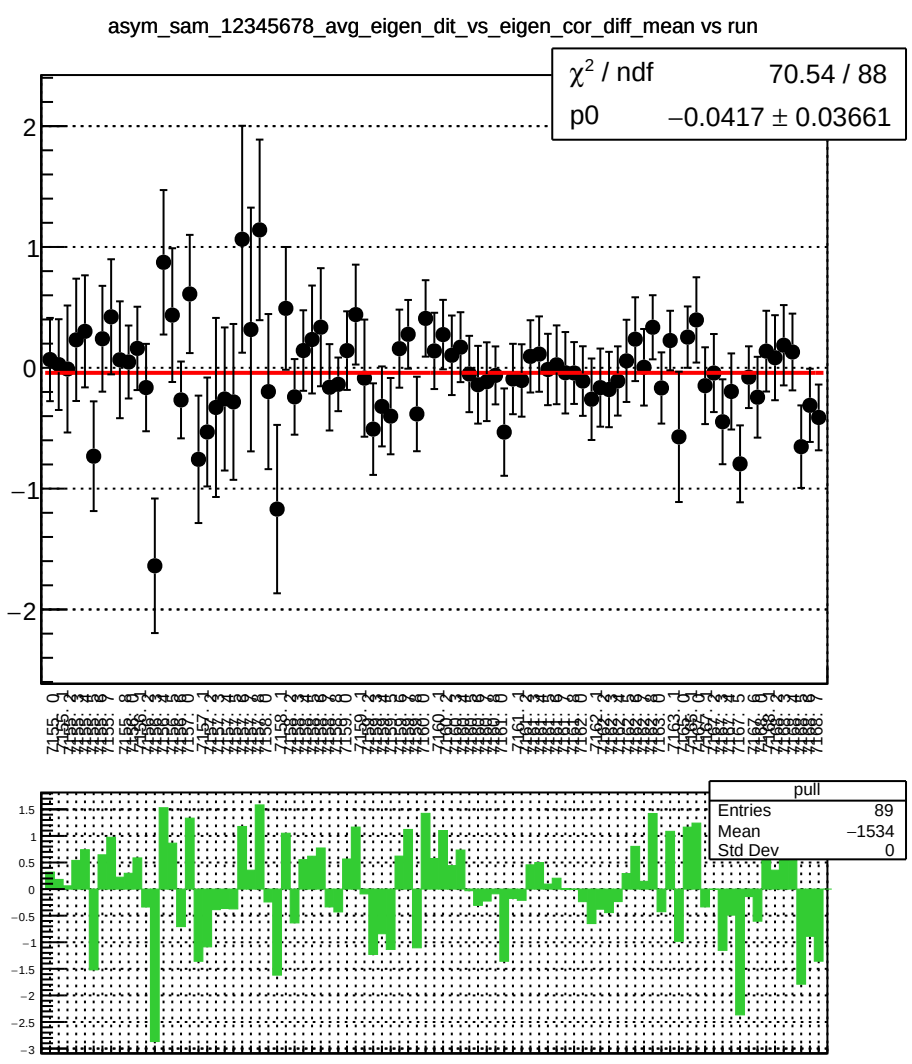

pull1D
Entries 89
Mean −0.01816
Std Dev 0.9714
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

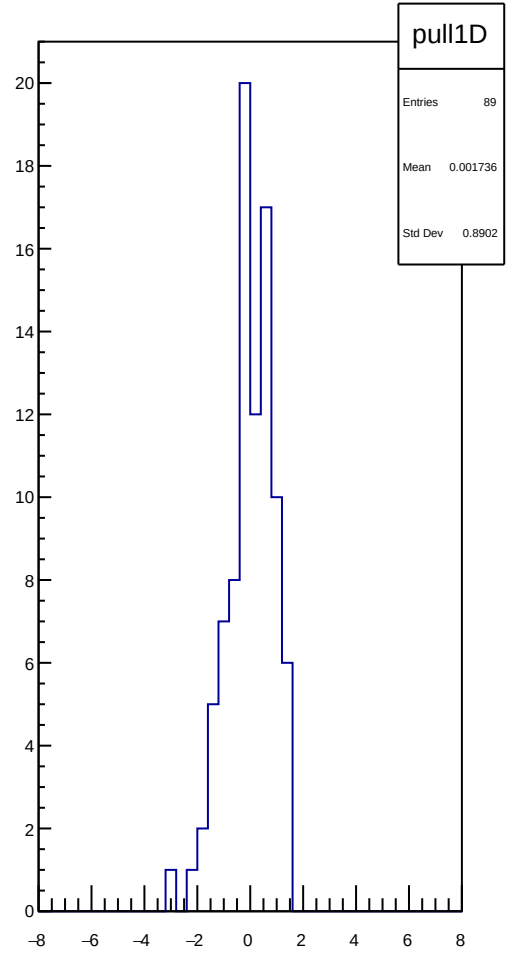

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.385e+04 / 88
p0 0.00228 ± 1.741e–06
0.003
0.0028
0.0026
0.0024
0.0022
0.002

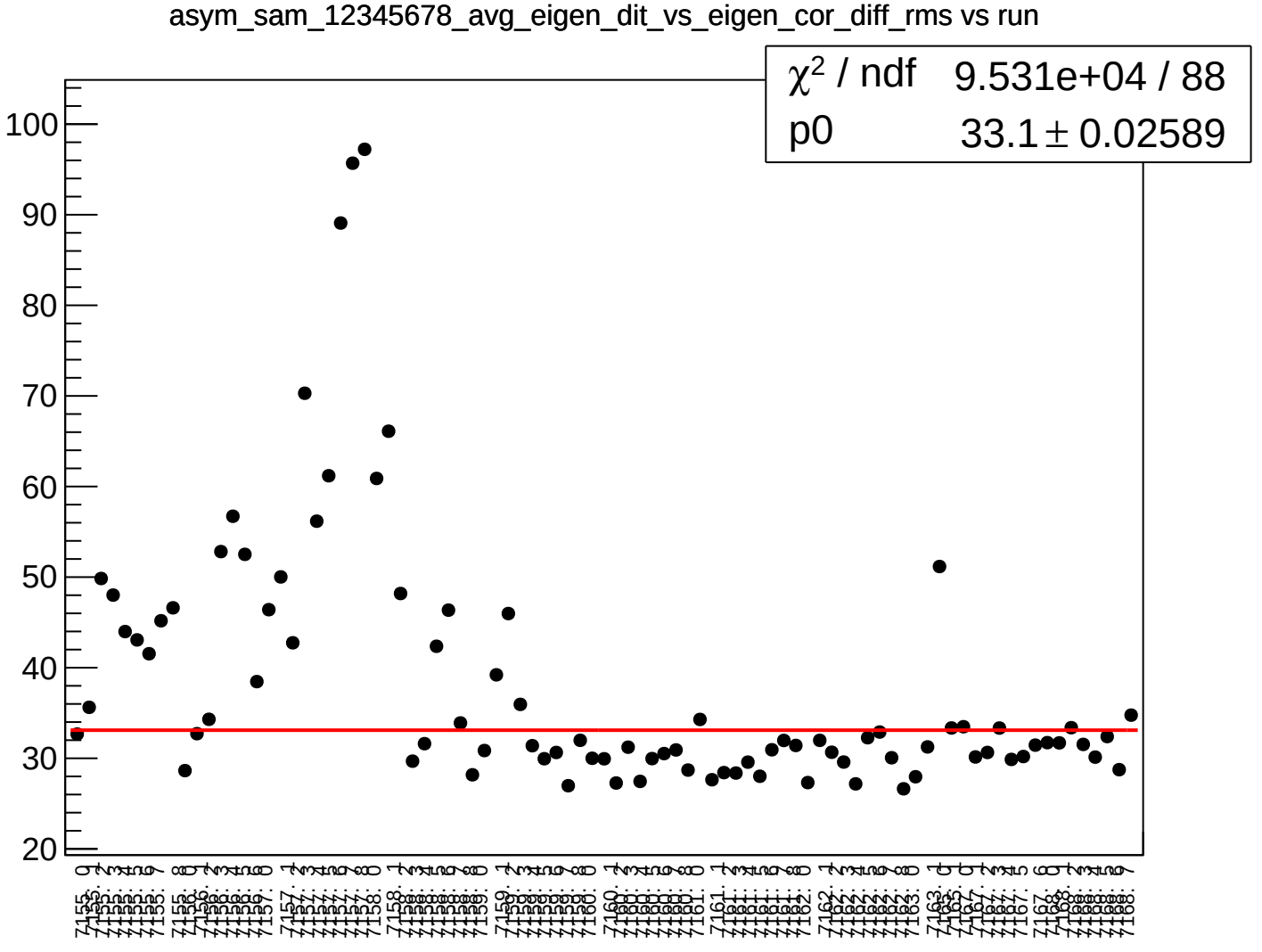

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 70.54 / 88
p0 −0.0417 ± 0.03661
pull
Entries 89
Mean −1534
Std Dev 0

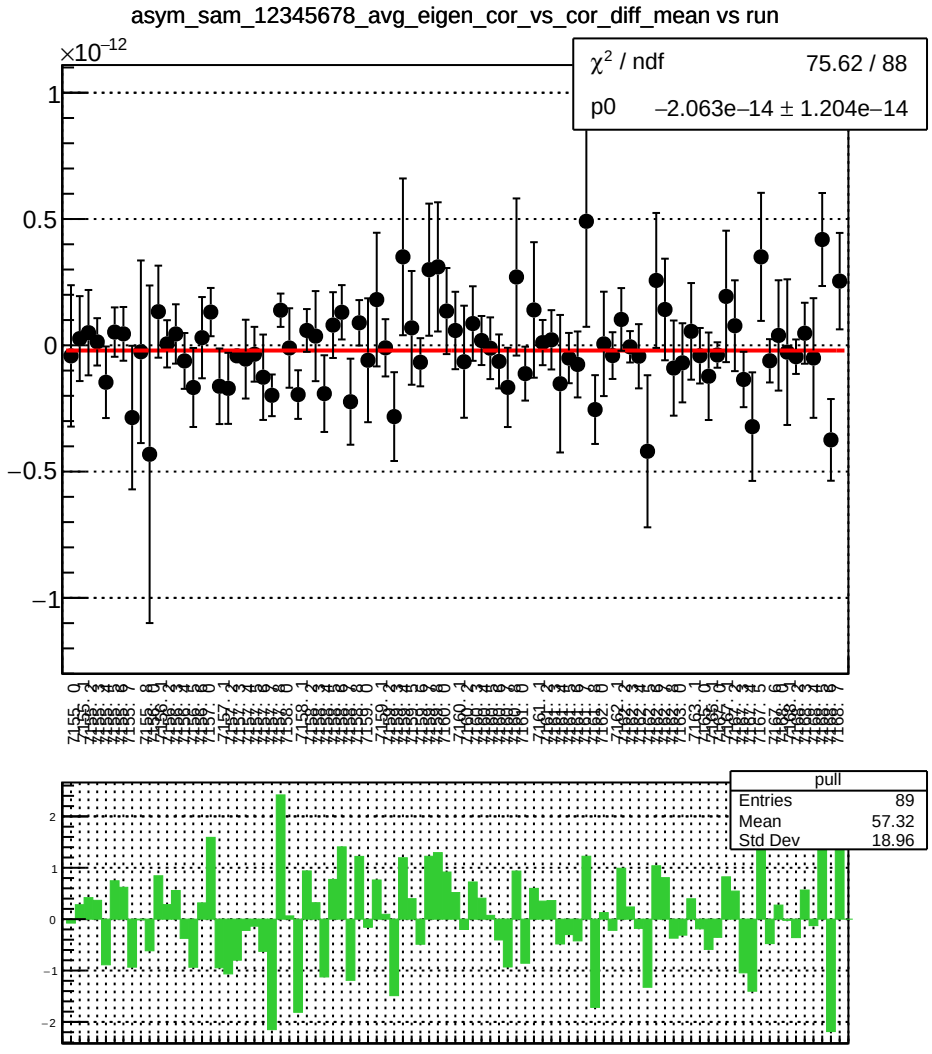

pull1D
Entries 89
Mean 0.001736
Std Dev 0.8902

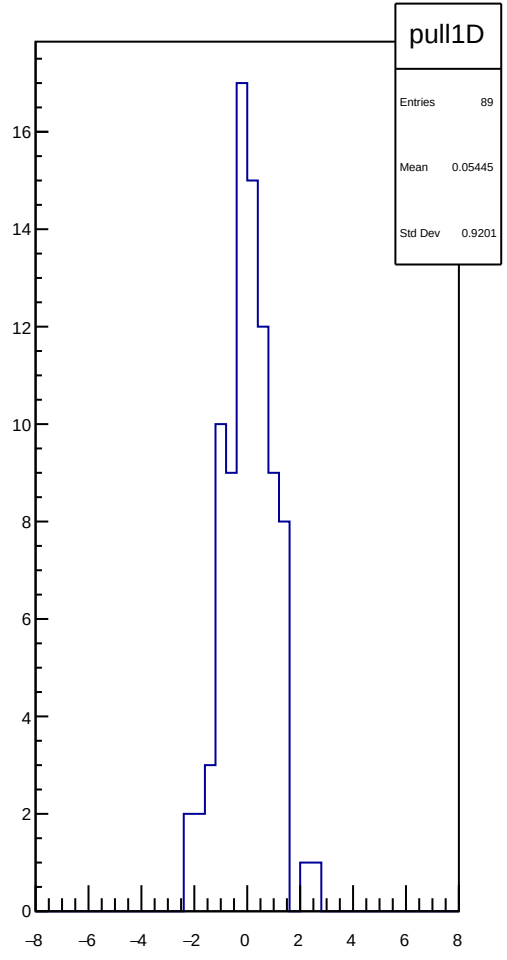

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.531e+04 / 88
p0 33.1 ± 0.02589
100
90
80
70
60
50
40
30
20

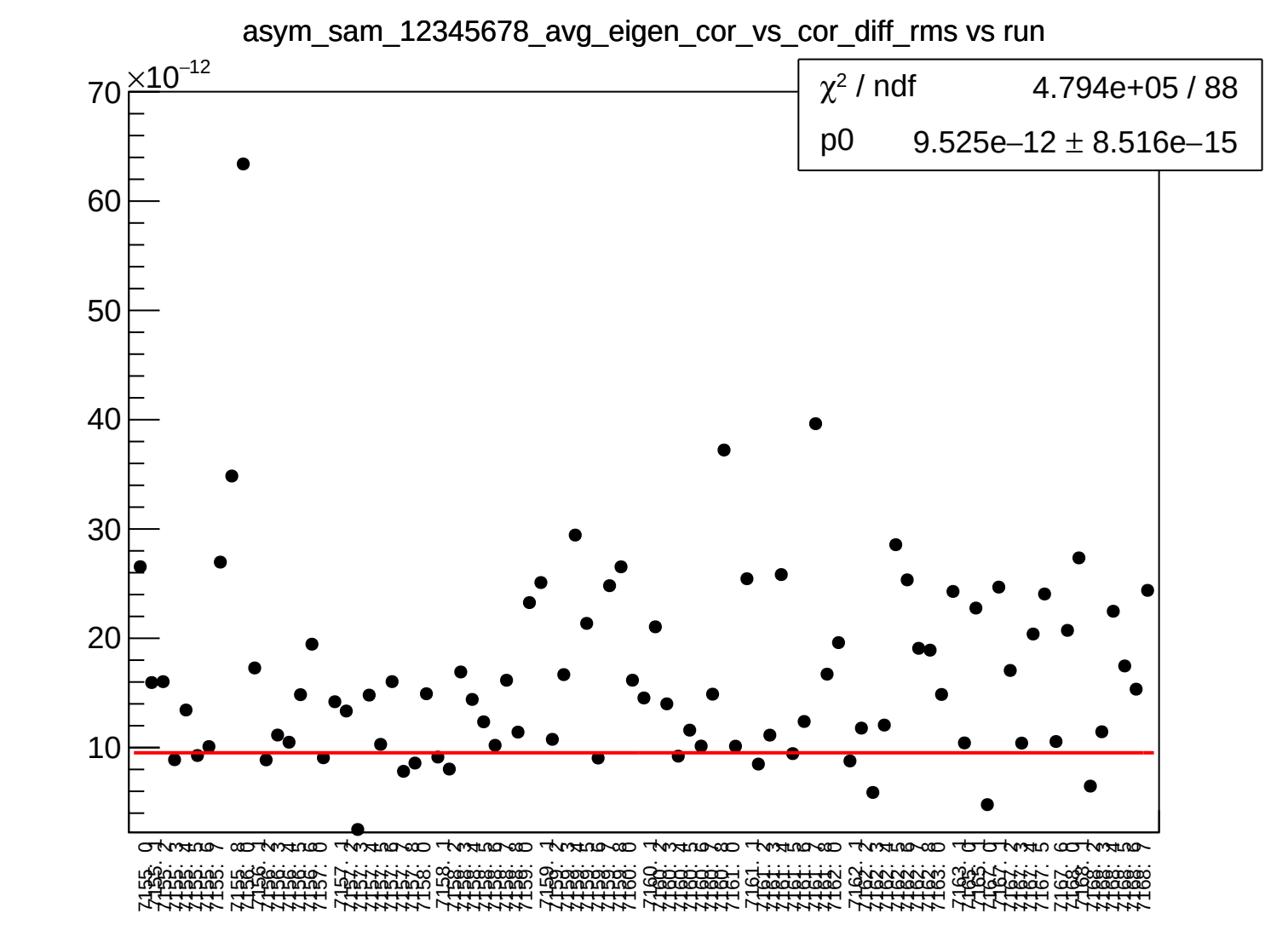

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 70.54 / 88
p0 −0.0417 ± 0.03661
pull
Entries 89
Mean −1534
Std Dev 0

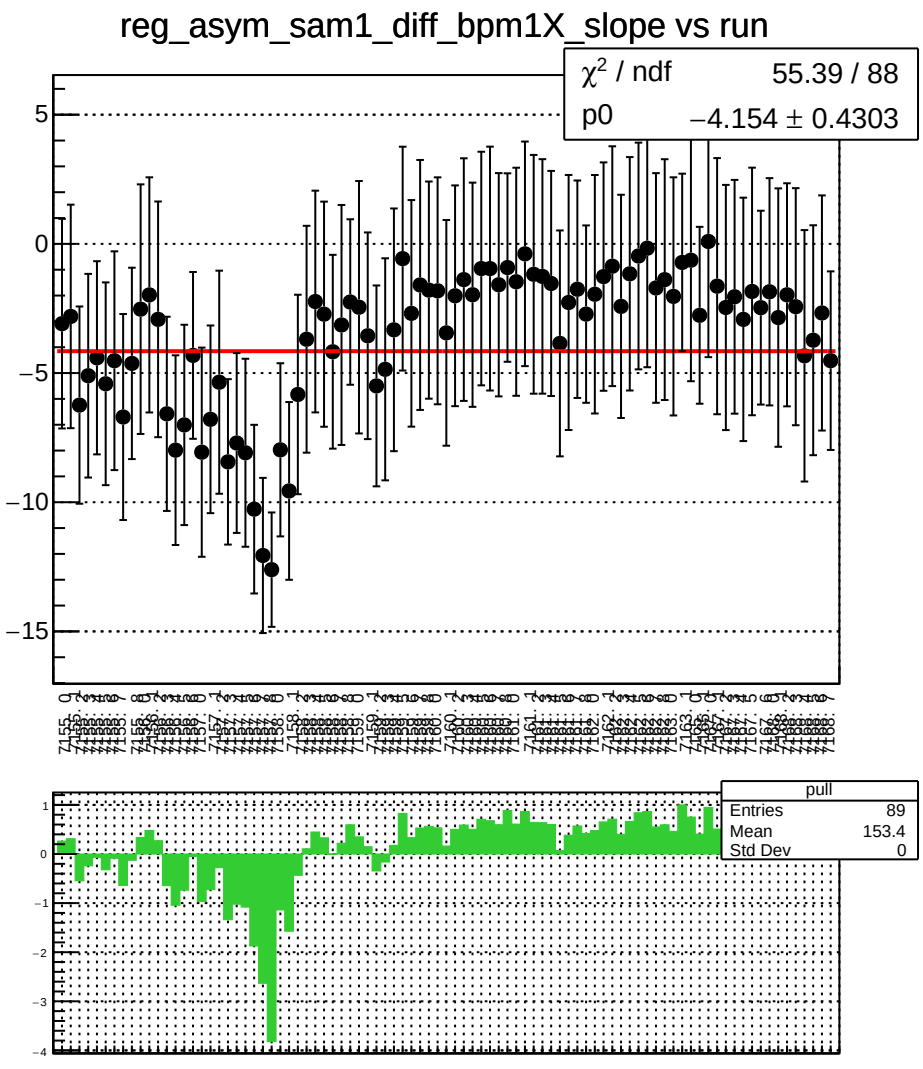

pull1D
Entries 89
Mean 0.001736
Std Dev 0.8902

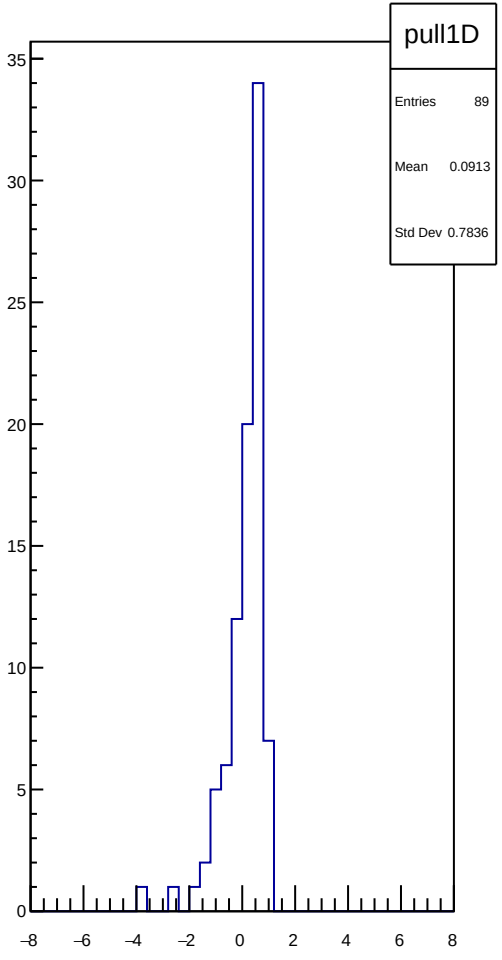

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.531e+04 / 88
p0 33.1 ± 0.02589
100
90
80
70
60
50
40
30
20

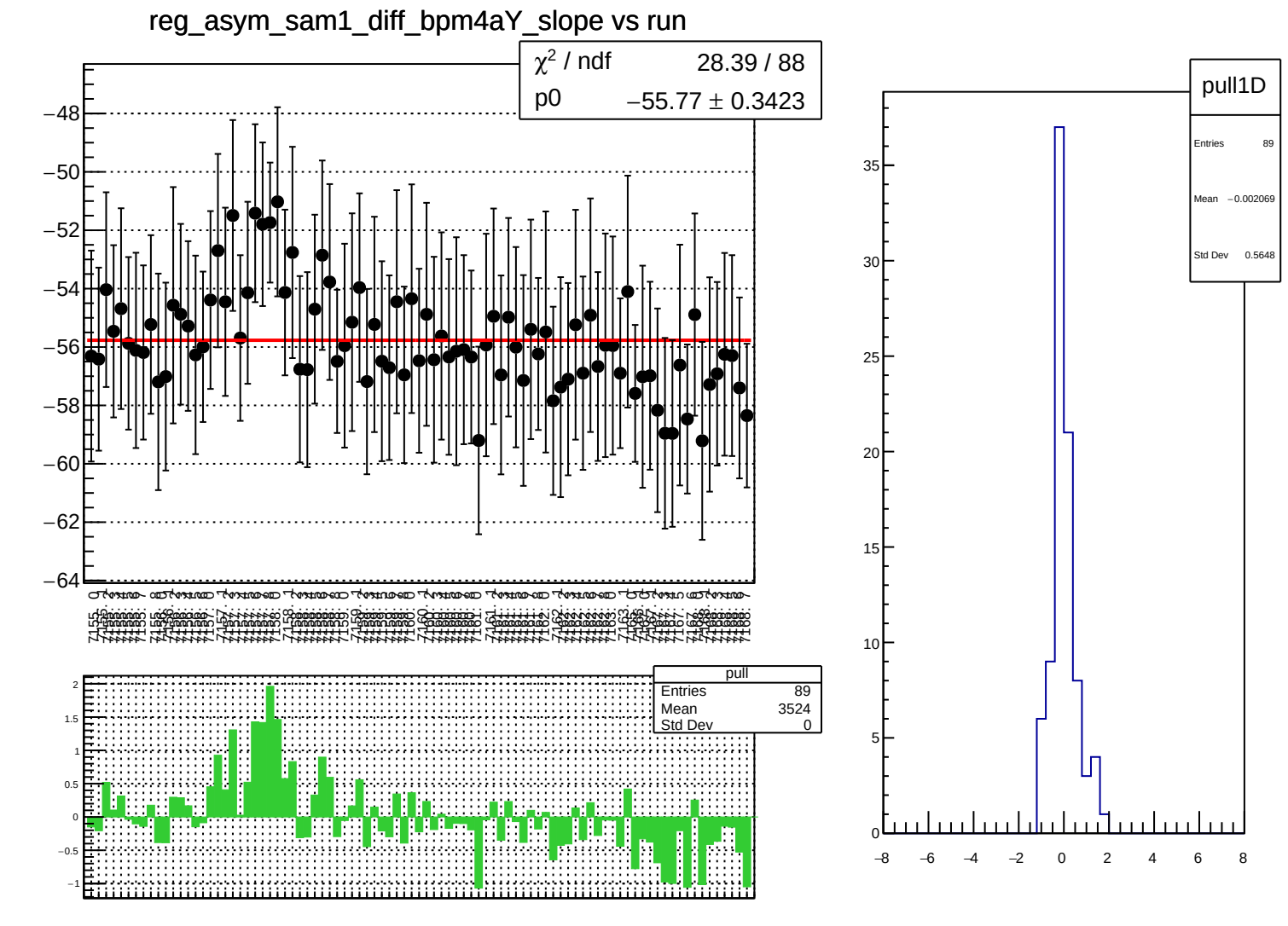

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.62 / 88
p0 −2.063e−14 ± 1.204e−14
pull
Entries 89
Mean 57.32
Std Dev 18.96

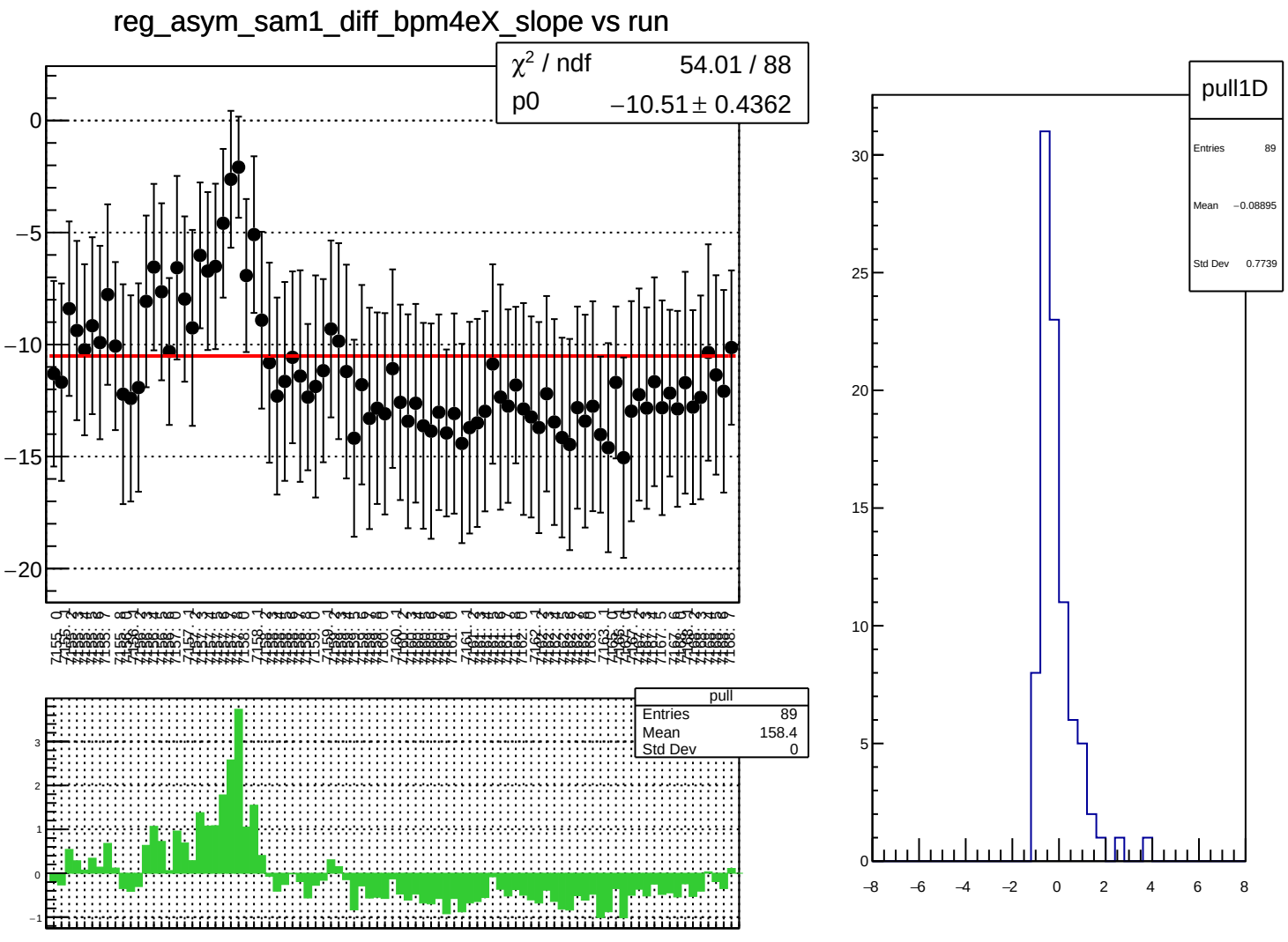

pull1D
Entries 89
Mean 0.05445
Std Dev 0.9201

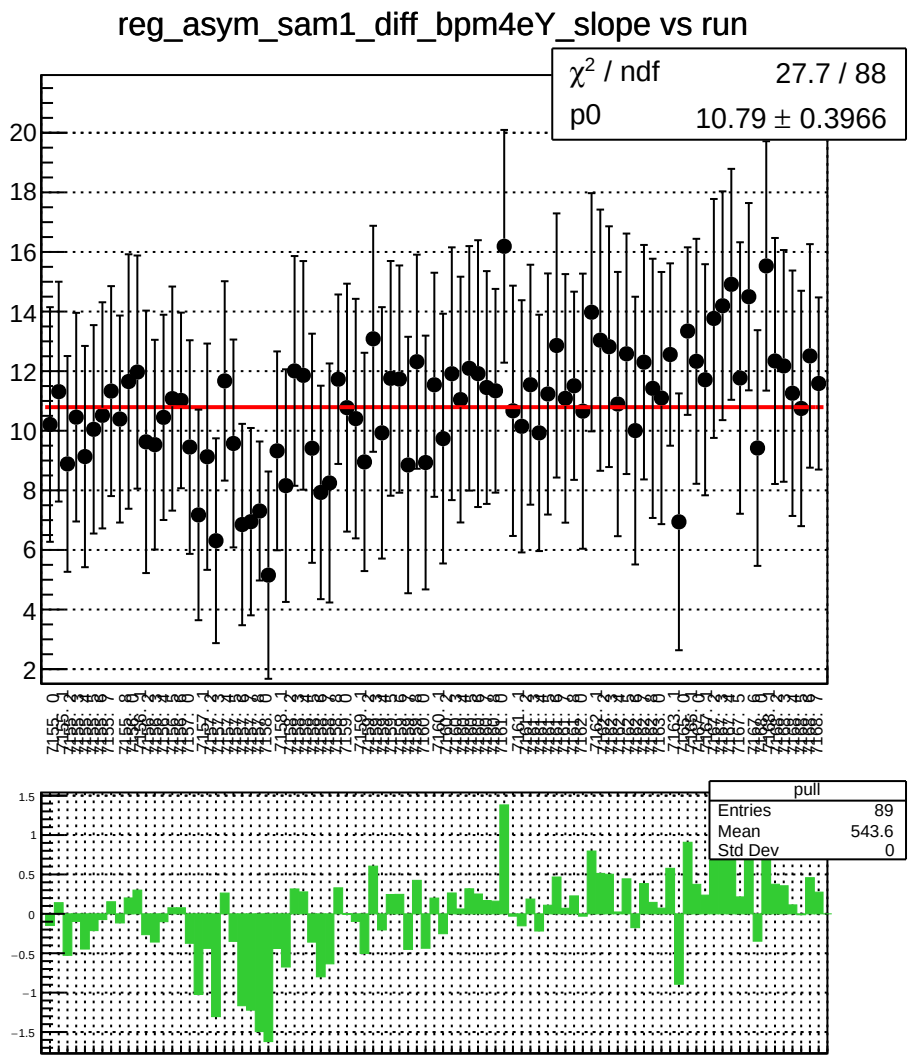

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
70
60
50
40
30
20
10
χ² / ndf 4.794e+05 / 88
p0 9.525e−12 ± 8.516e−15

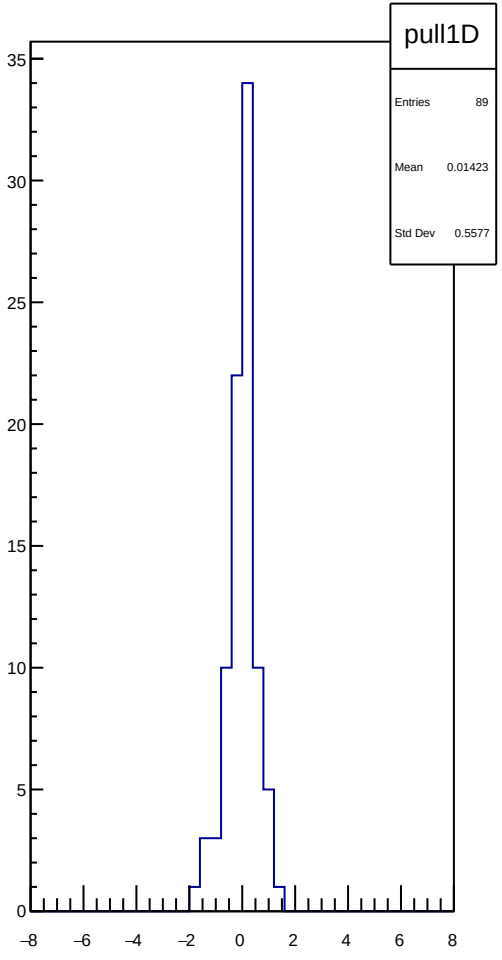

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 55.39 / 88
p0 −4.154 ± 0.4303
pull
Entries 89
Mean 153.4
Std Dev 0

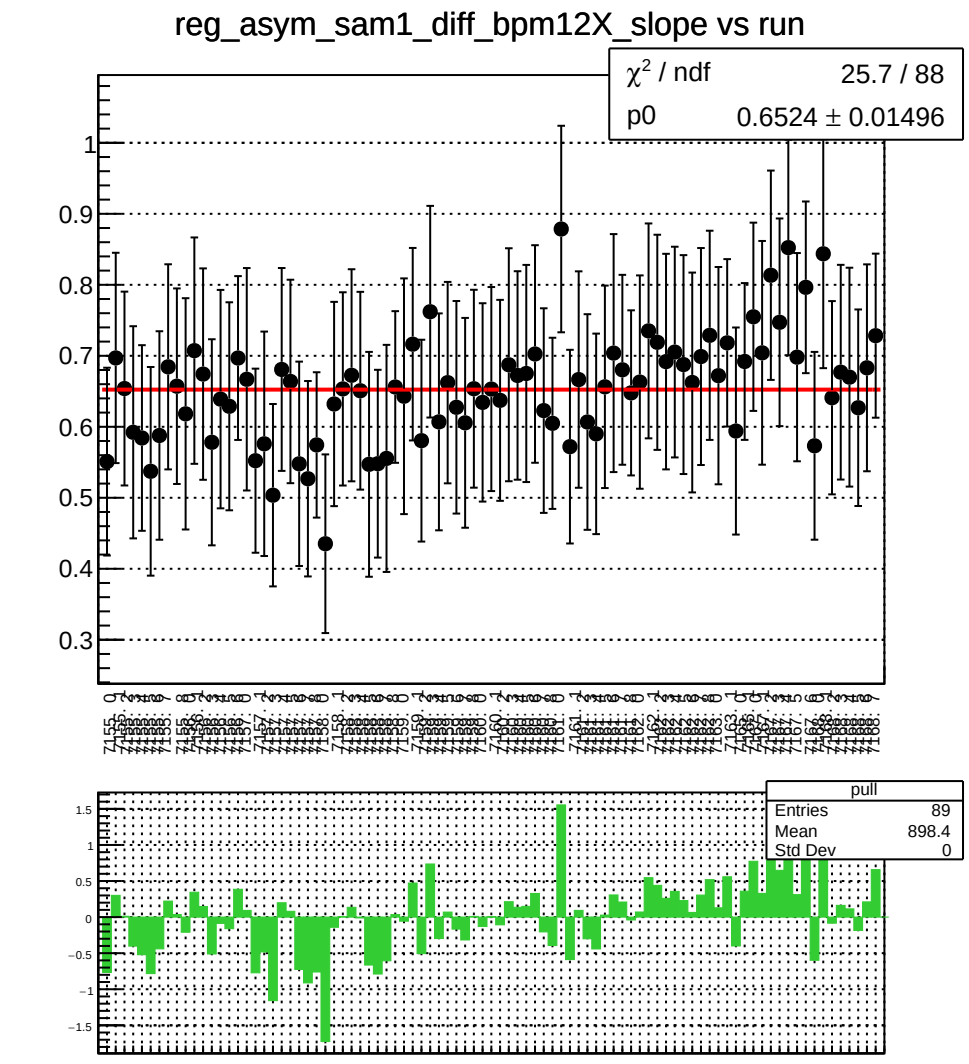

pull1D
Entries 89
Mean 0.0913
Std Dev 0.7836

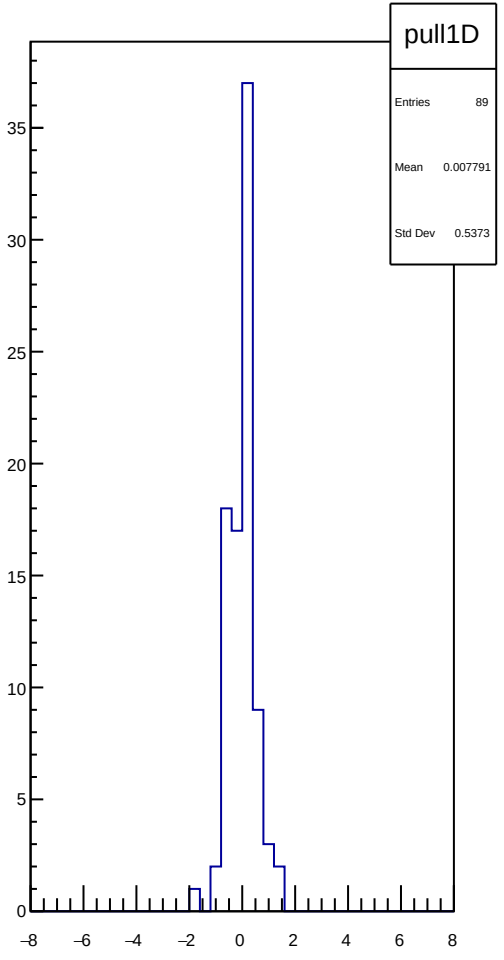

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 28.39 / 88
p0 −55.77 ± 0.3423
pull
Entries 89
Mean 3524
Std Dev 0
pull1D
Entries 89
Mean −0.002069
Std Dev 0.5648

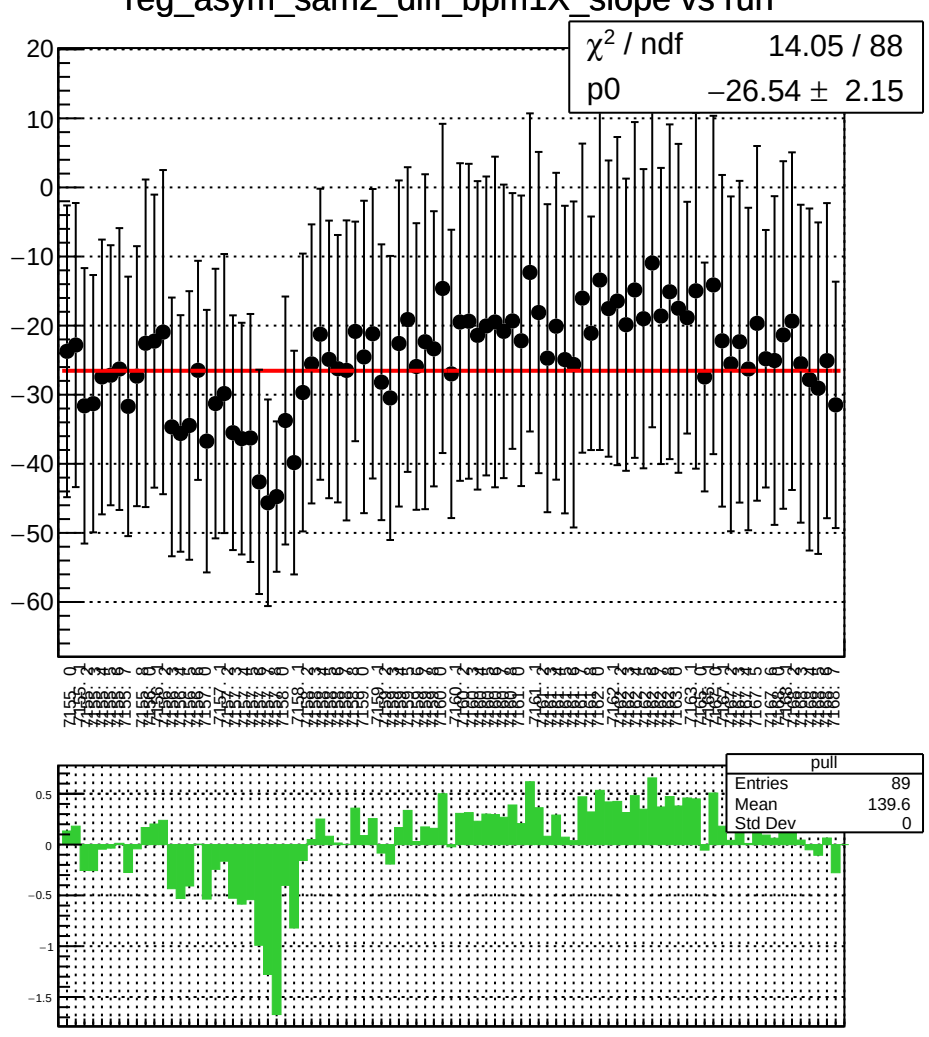

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 54.01 / 88
p0 −10.51 ± 0.4362
pull
Entries 89
Mean 158.4
Std Dev 0
pull1D
Entries 89
Mean −0.08895
Std Dev 0.7739

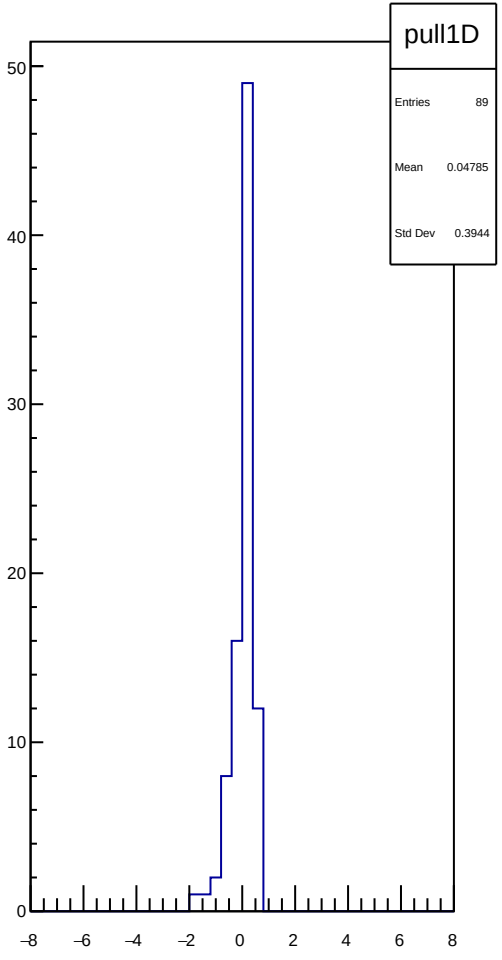

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 27.7 / 88
p0 10.79 ± 0.3966
pull
Entries 89
Mean 543.6
Std Dev 0

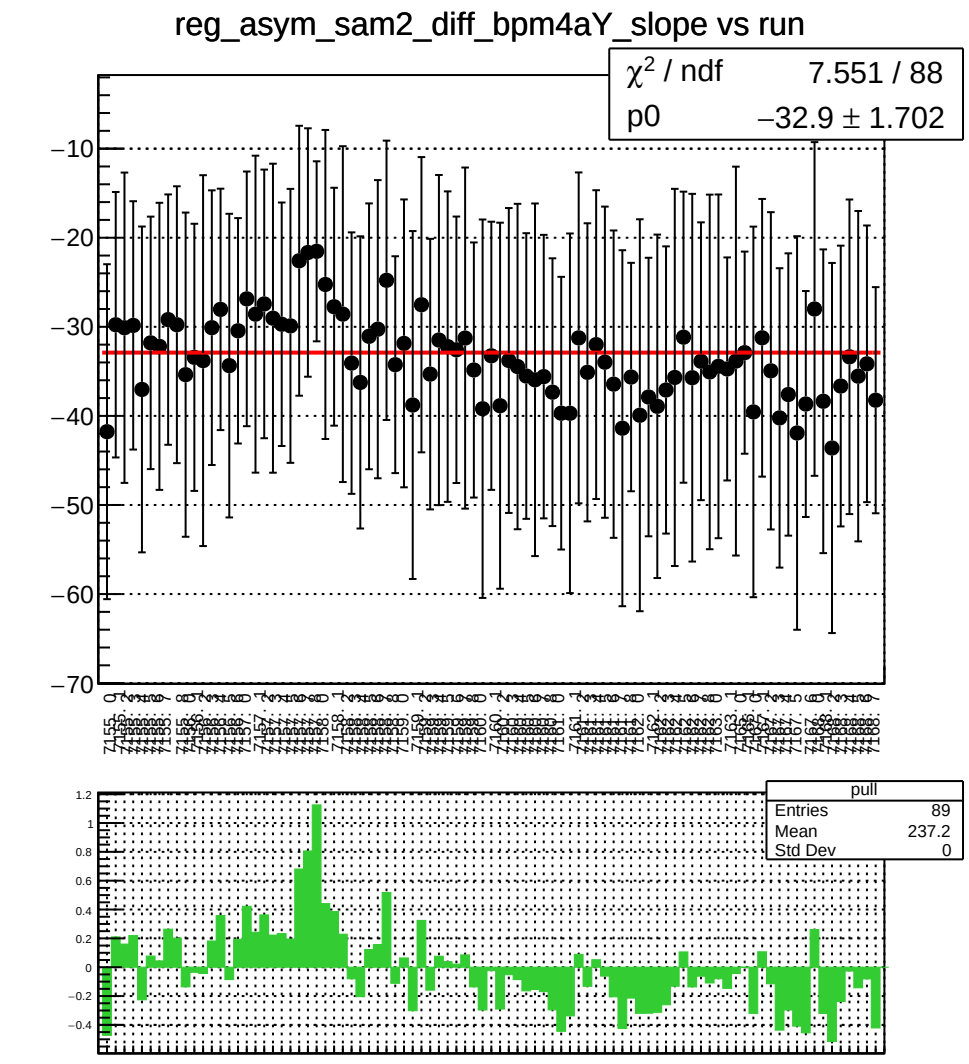

pull1D
Entries 89
Mean 0.01423
Std Dev 0.5577

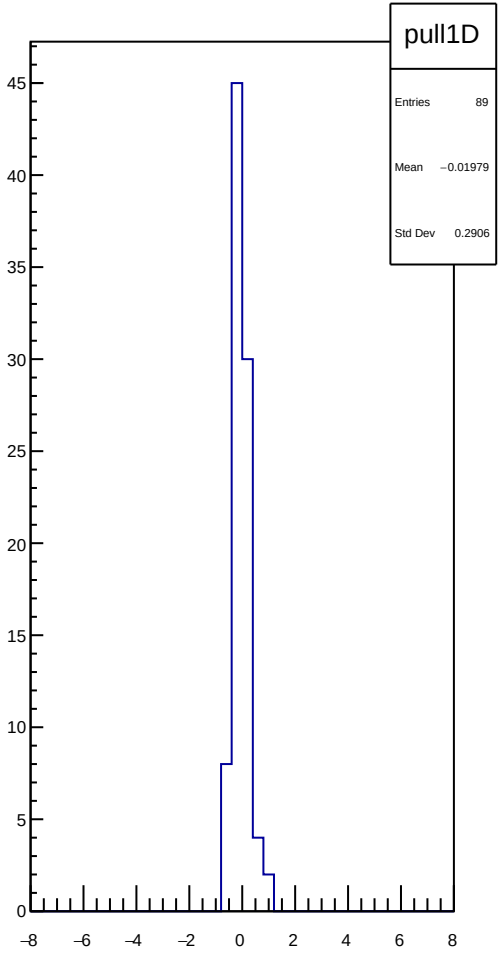

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 25.7 / 88
p0 0.6524 ± 0.01496
pull
Entries 89
Mean 898.4
Std Dev 0

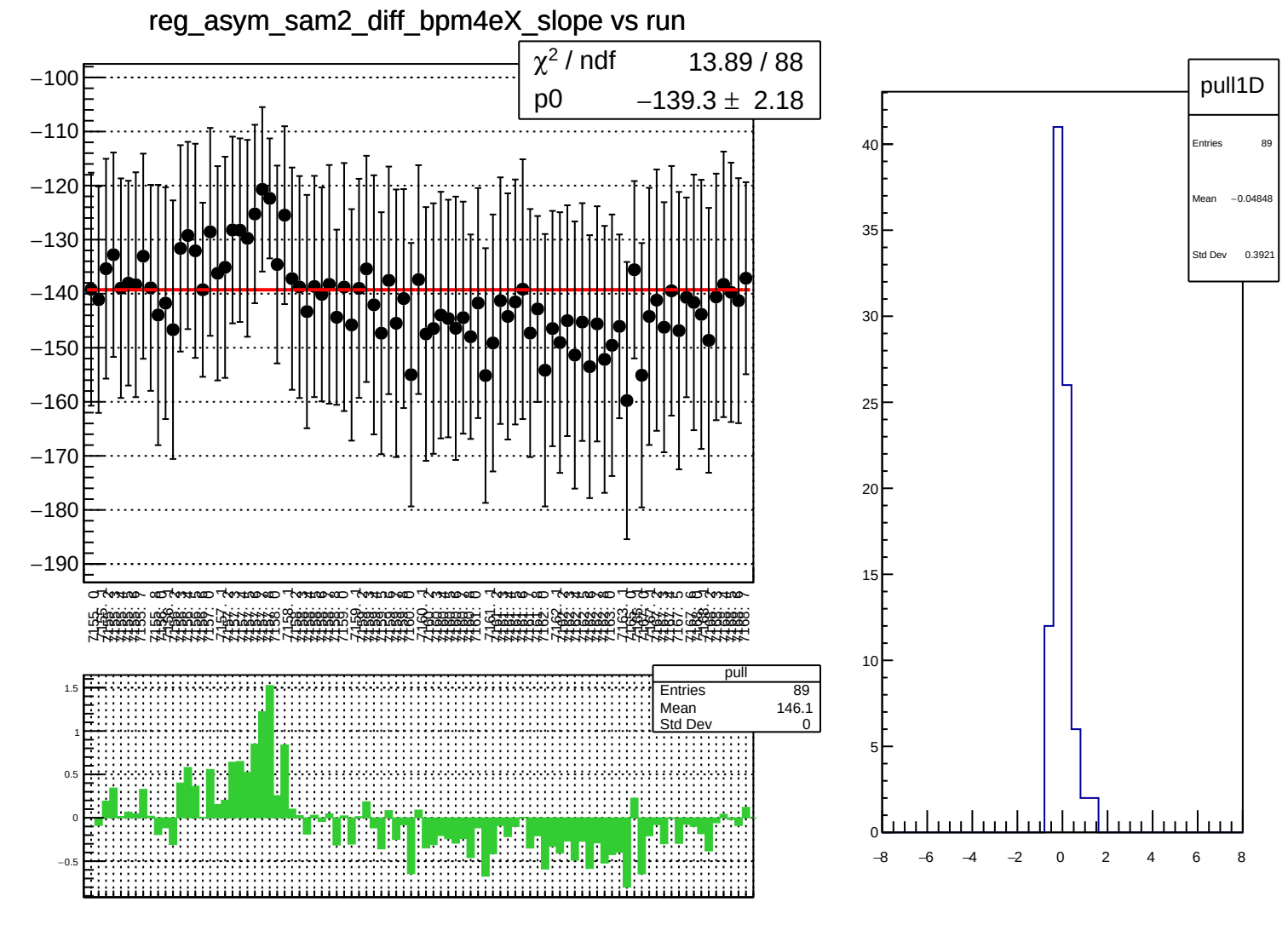

pull1D
Entries 89
Mean 0.007791
Std Dev 0.5373

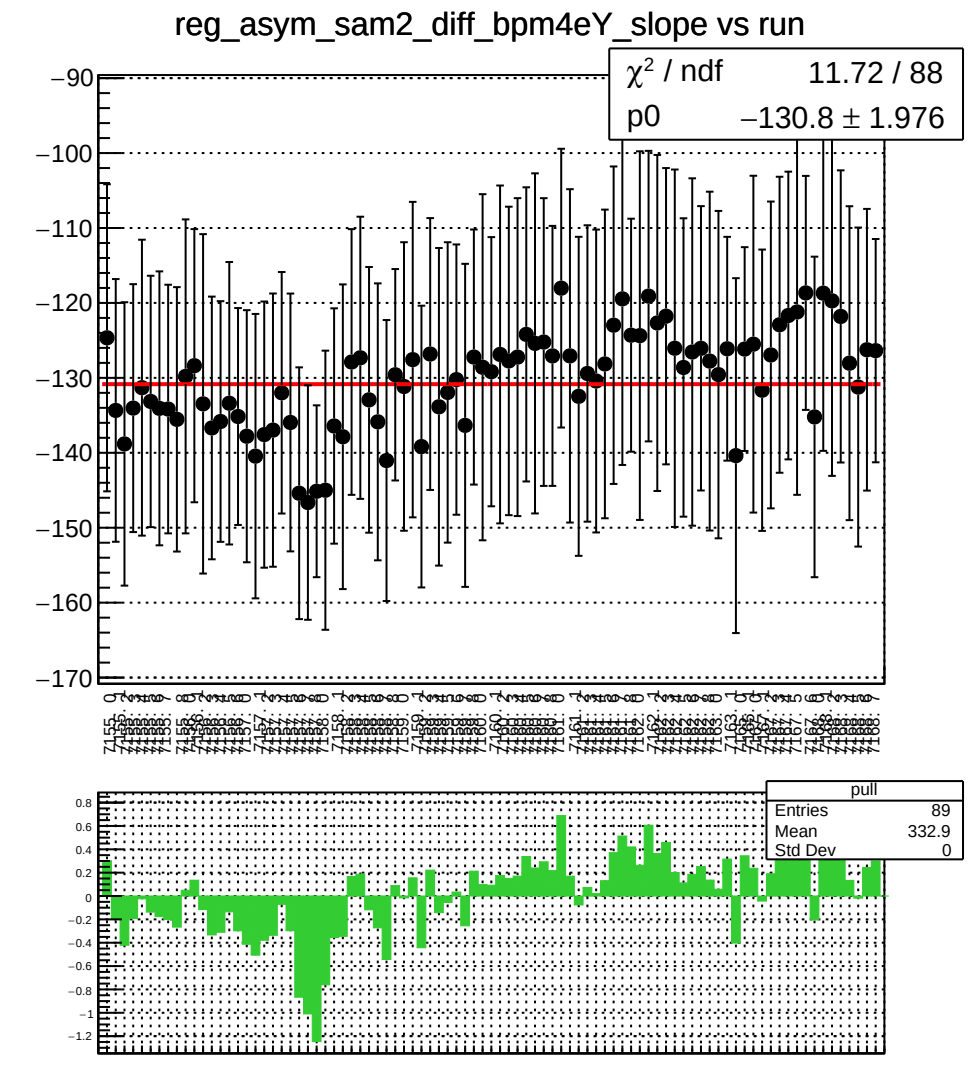

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 14.05 / 88
p0 −26.54 ± 2.15
pull
Entries 89
Mean 139.6
Std Dev 0

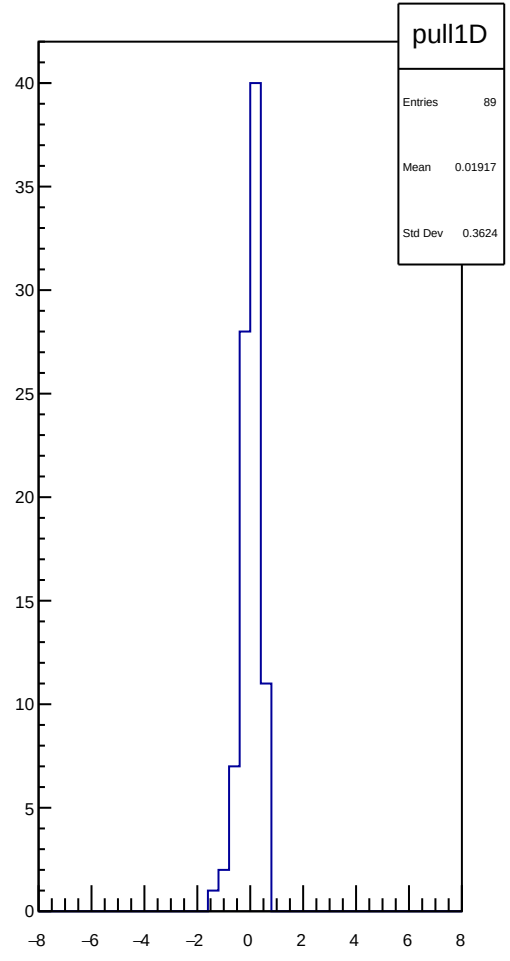

pull1D
Entries 89
Mean 0.04785
Std Dev 0.3944

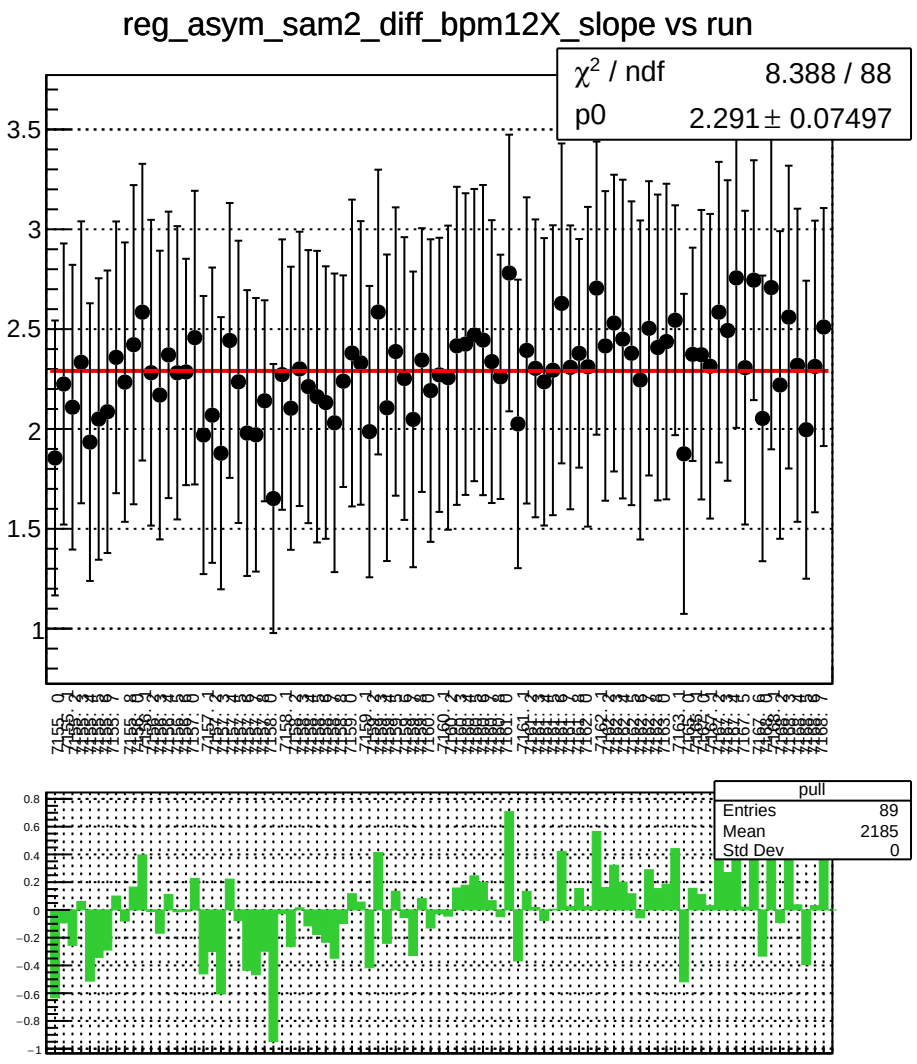

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.551 / 88
p0 −32.9 ± 1.702
pull
Entries 89
Mean 237.2
Std Dev 0

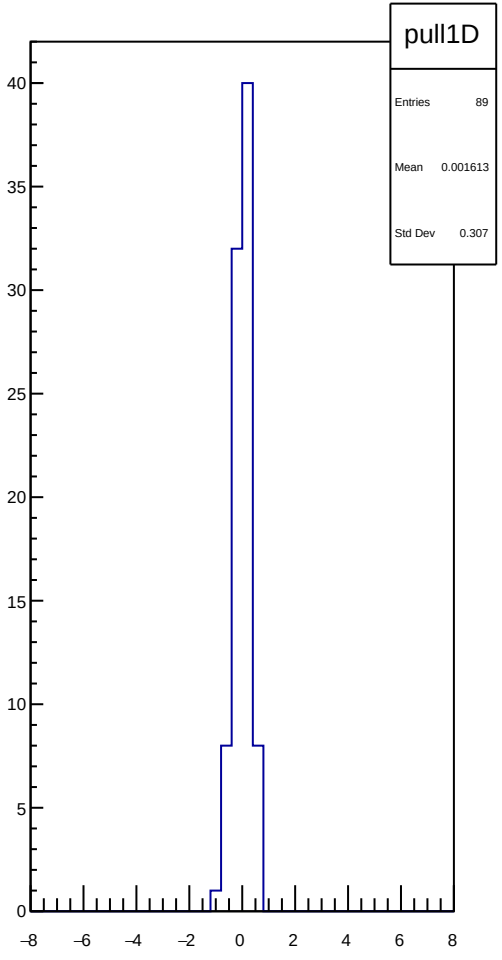

pull1D
Entries 89
Mean −0.01979
Std Dev 0.2906

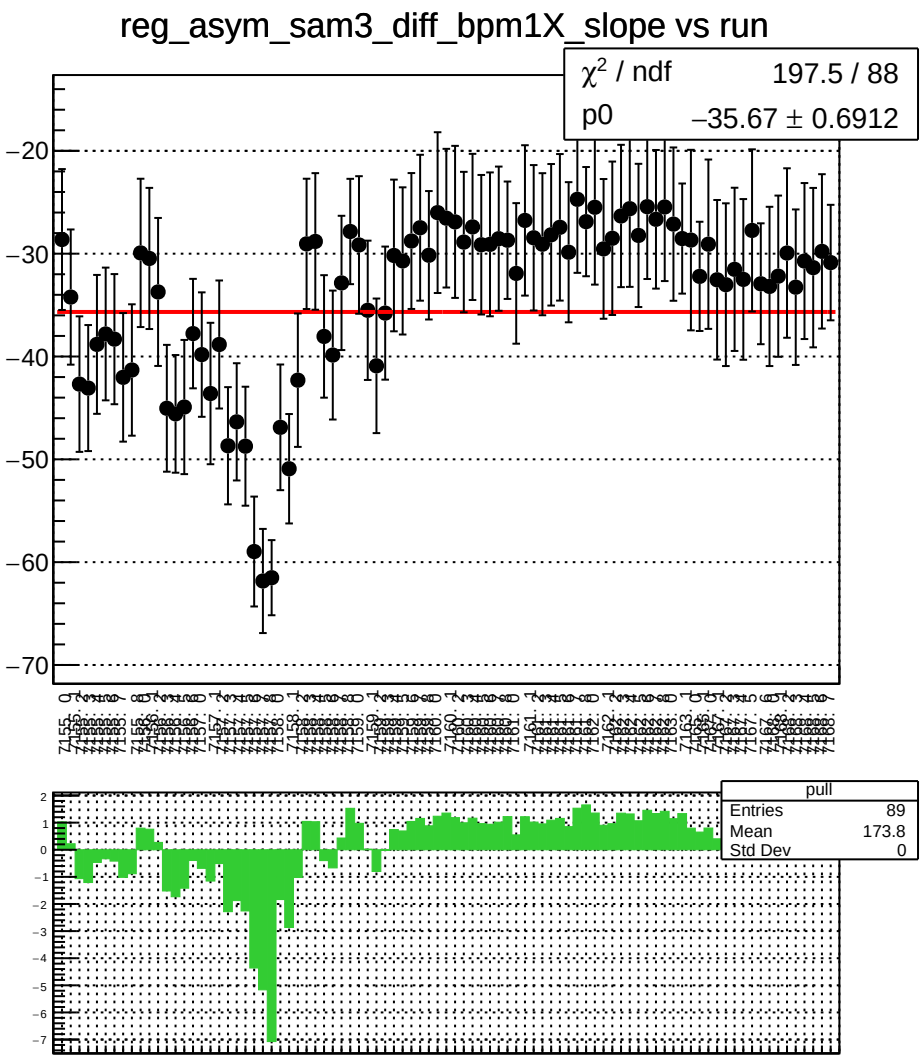

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 13.89 / 88
p0 −139.3 ± 2.18
pull
Entries 89
Mean 146.1
Std Dev 0
pull1D
Entries 89
Mean −0.04848
Std Dev 0.3921

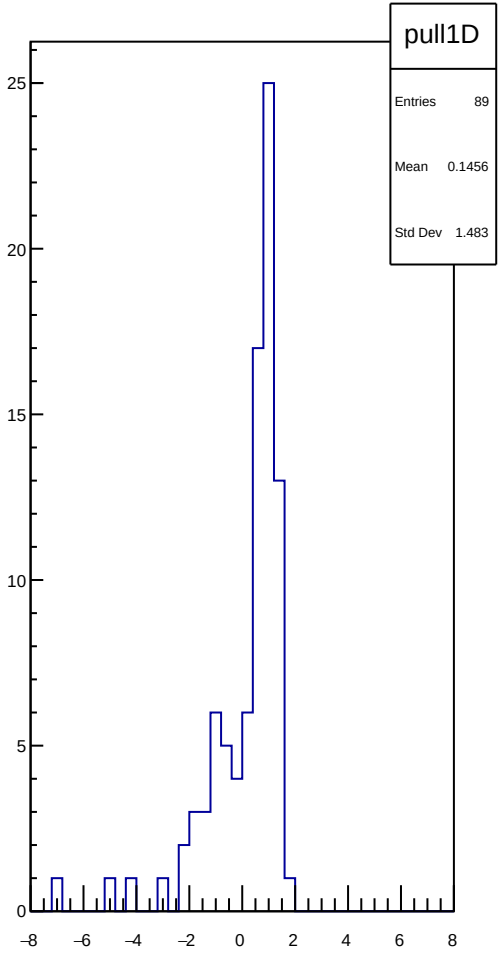

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 11.72 / 88
p0 −130.8 ± 1.976
pull
Entries 89
Mean 332.9
Std Dev 0

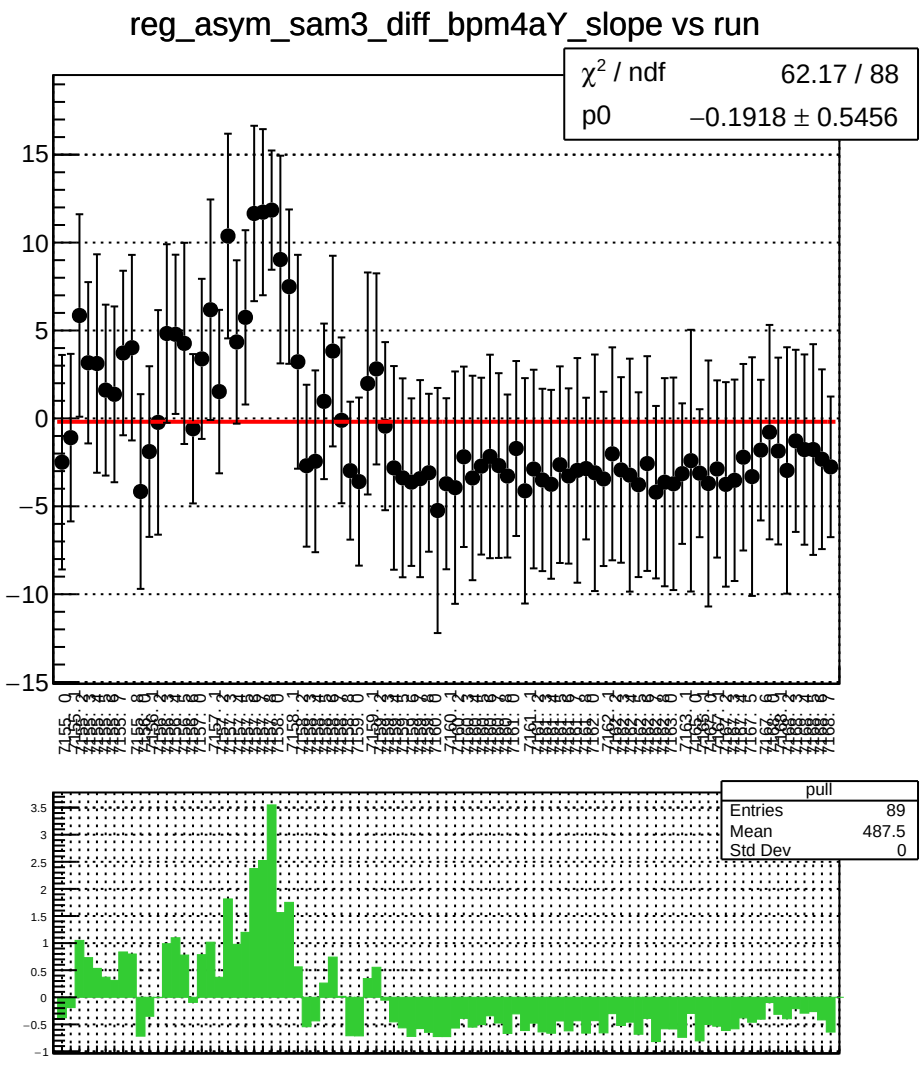

pull1D
Entries 89
Mean 0.01917
Std Dev 0.3624

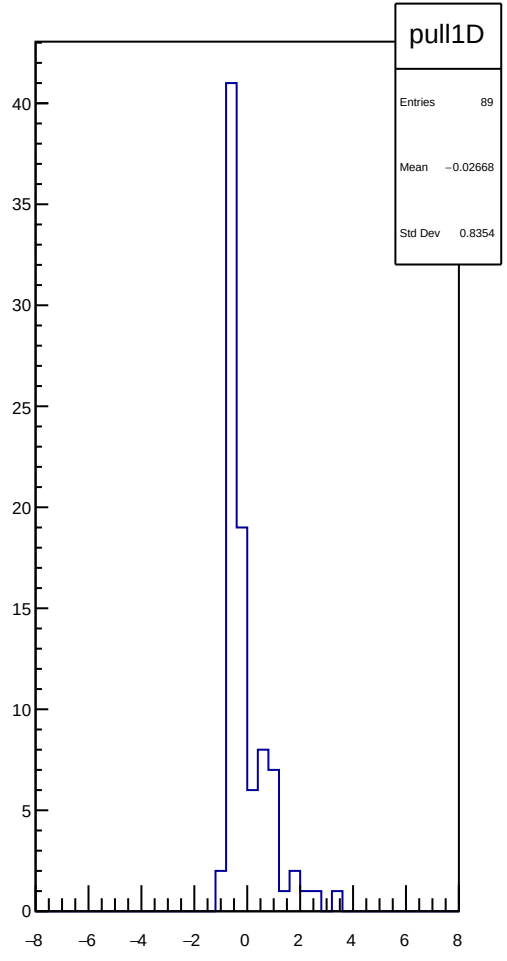

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 8.388 / 88
p0 2.291 ± 0.07497
pull
Entries 89
Mean 2185
Std Dev 0

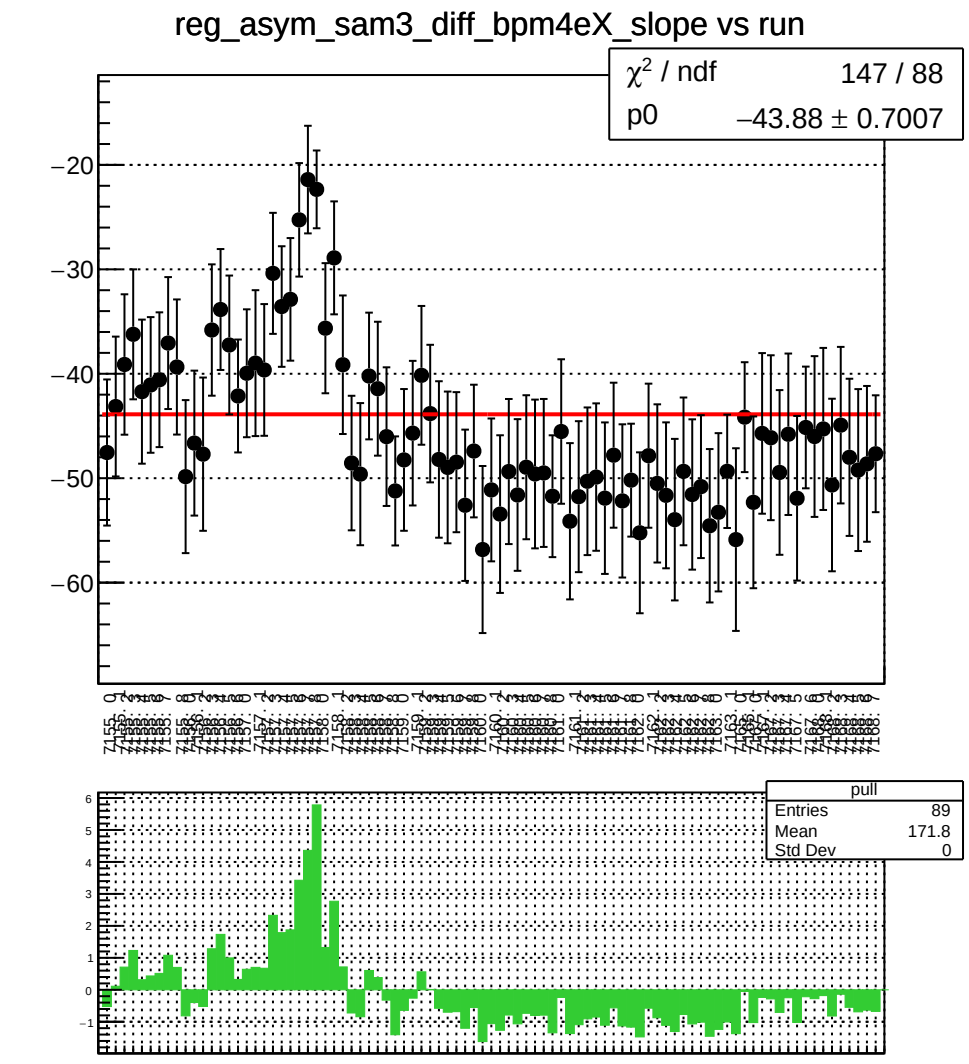

pull1D
Entries 89
Mean 0.001613
Std Dev 0.307

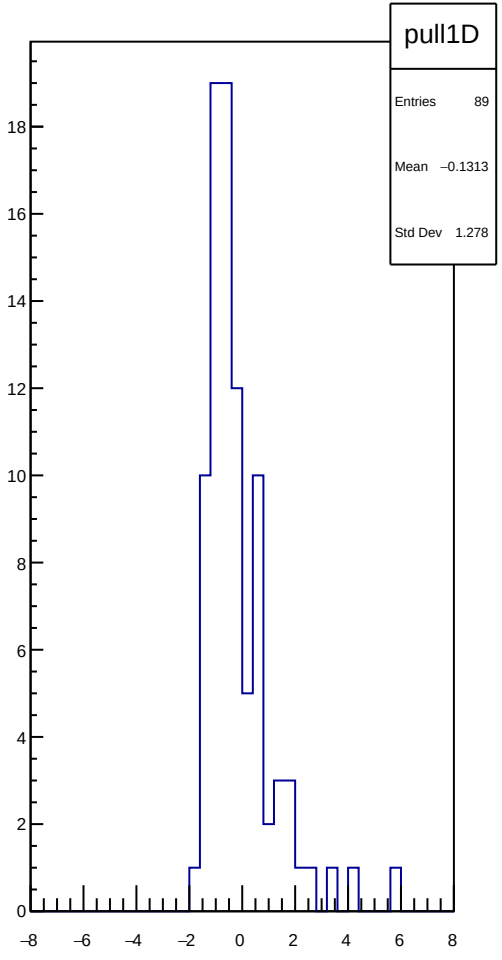

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 197.5 / 88
p0 −35.67 ± 0.6912
pull
Entries 89
Mean 173.8
Std Dev 0

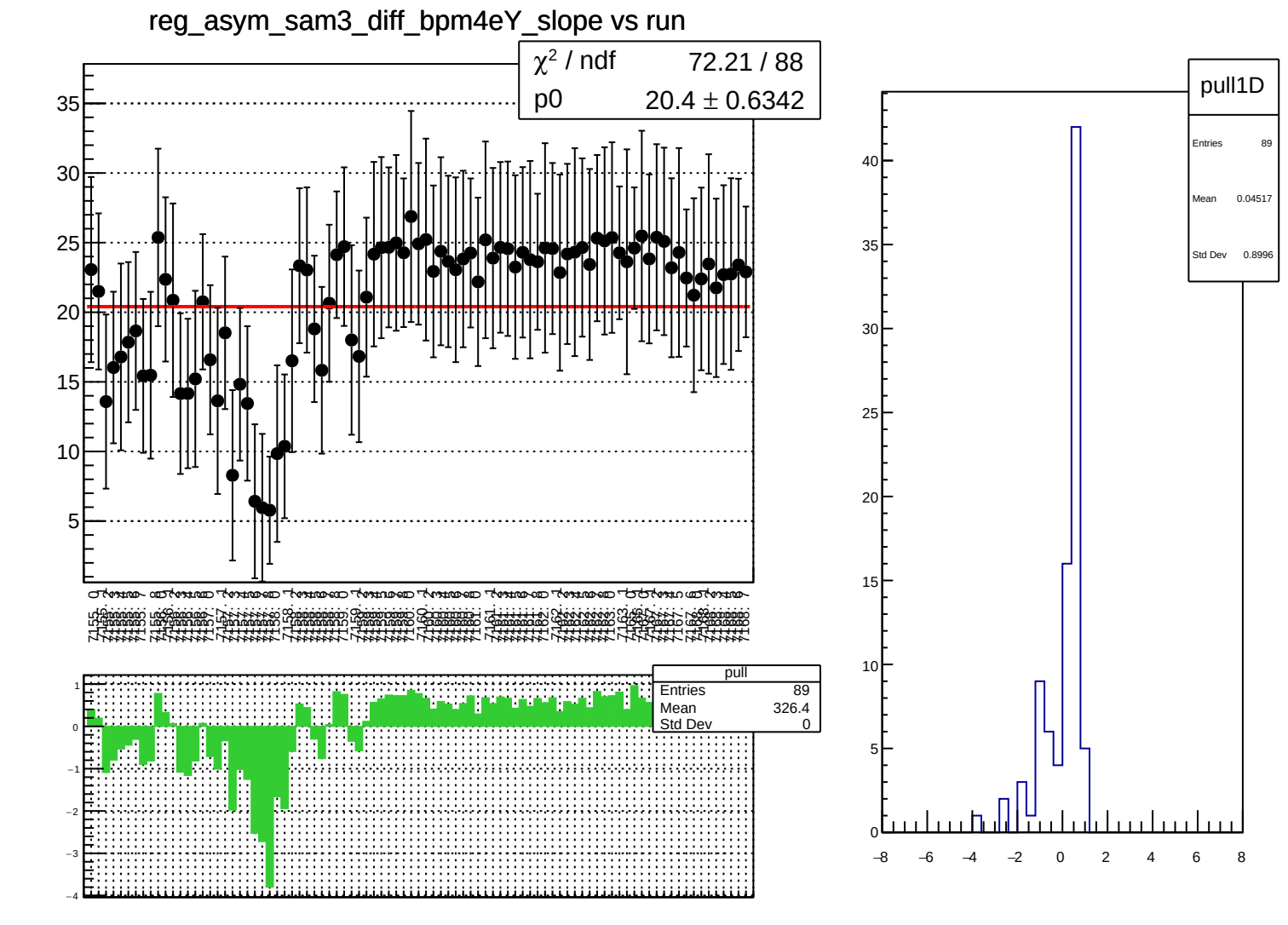

pull1D
Entries 89
Mean 0.1456
Std Dev 1.483

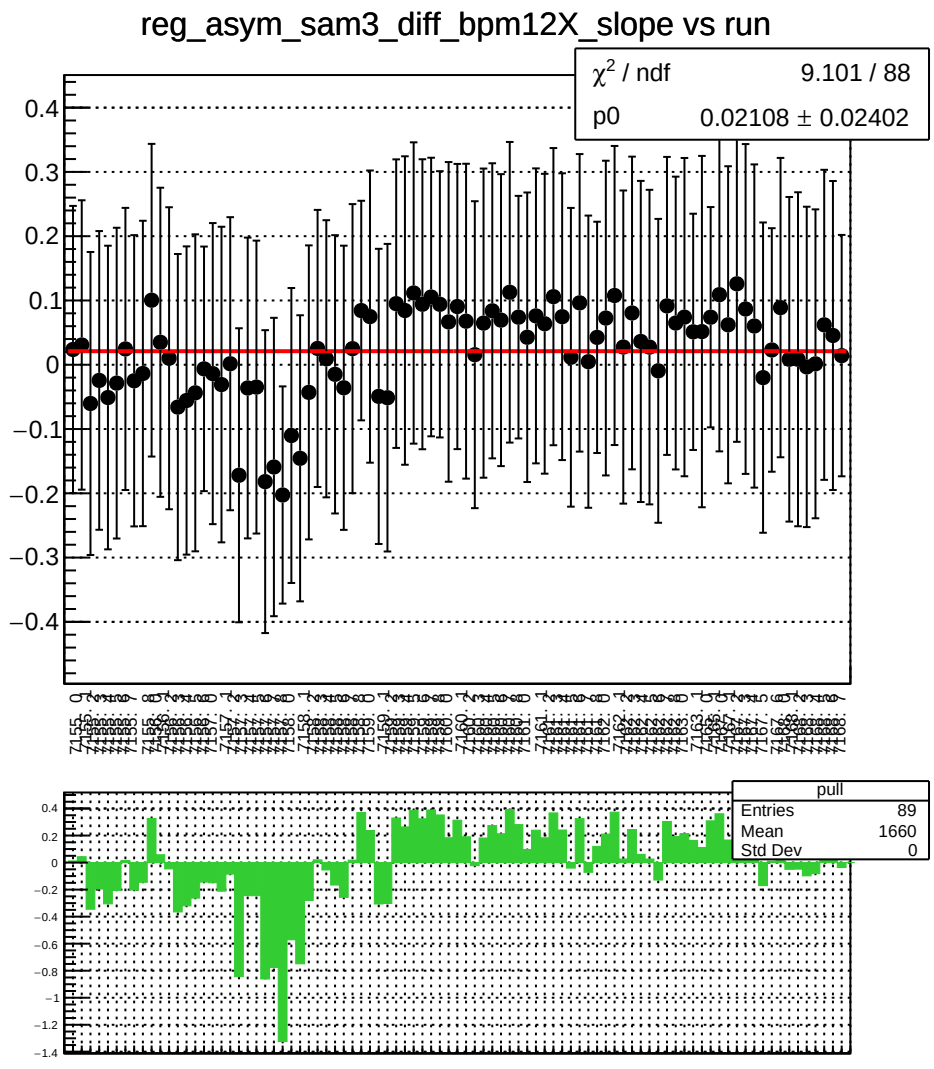

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 62.17 / 88
p0 −0.1918 ± 0.5456
pull
Entries 89
Mean 487.5
Std Dev 0

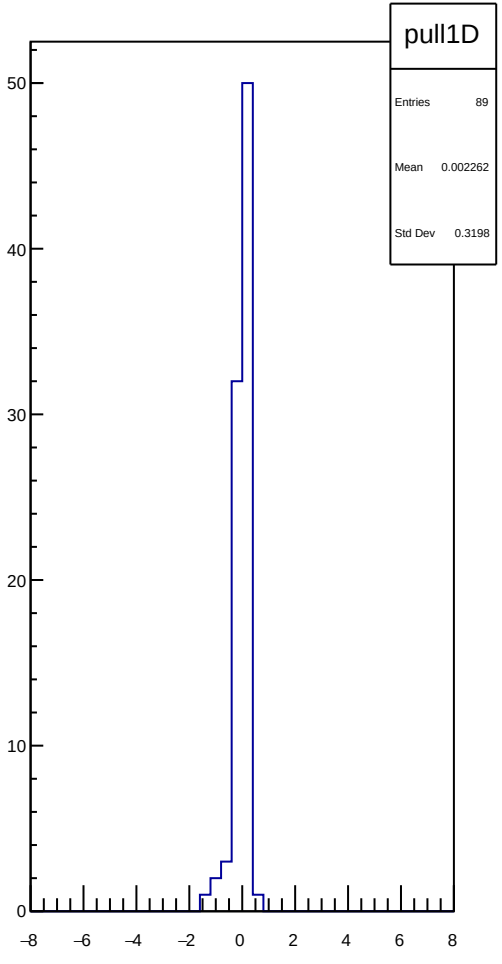

pull1D
Entries 89
Mean −0.02668
Std Dev 0.8354

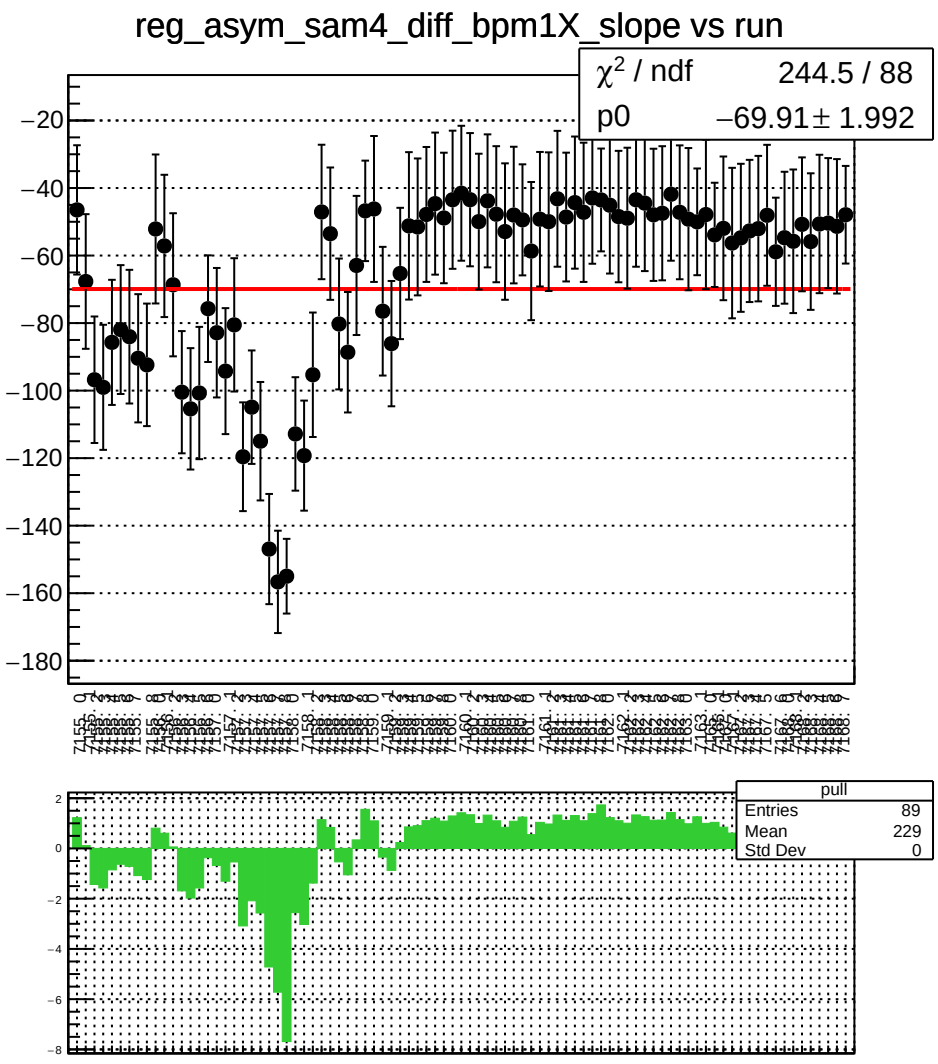

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 147 / 88
p0 −43.88 ± 0.7007
pull
Entries 89
Mean 171.8
Std Dev 0

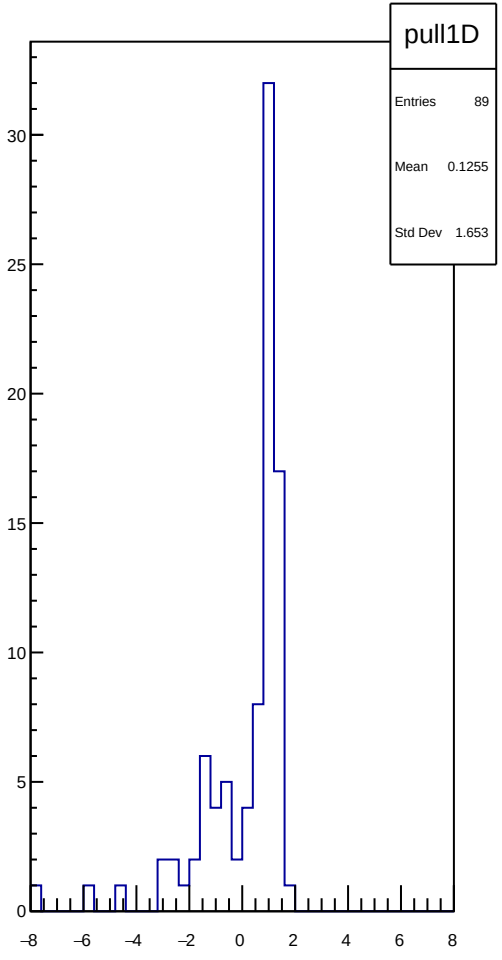

pull1D
Entries 89
Mean −0.1313
Std Dev 1.278

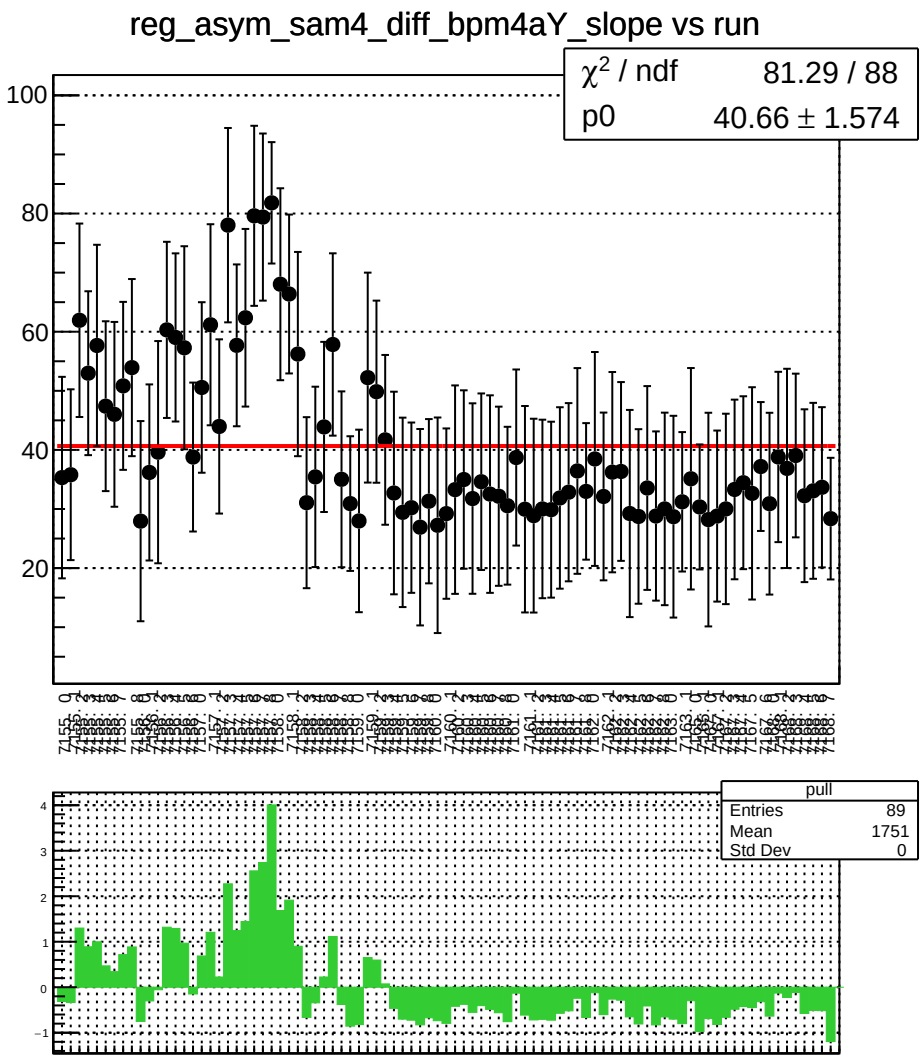

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 72.21 / 88
p0 20.4 ± 0.6342
pull
Entries 89
Mean 326.4
Std Dev 0
pull1D
Entries 89
Mean 0.04517
Std Dev 0.8996

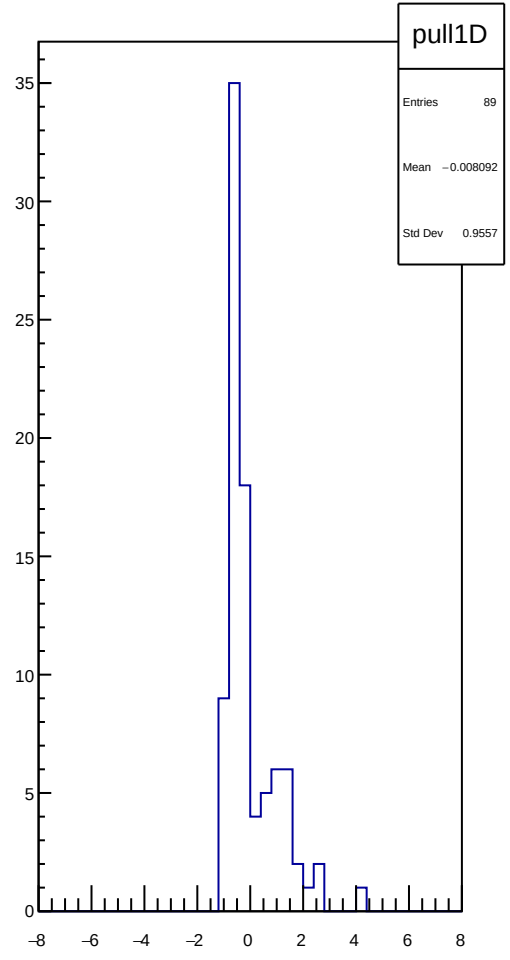

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 9.101 / 88
p0 0.02108 ± 0.02402
pull
Entries 89
Mean 1660
Std Dev 0

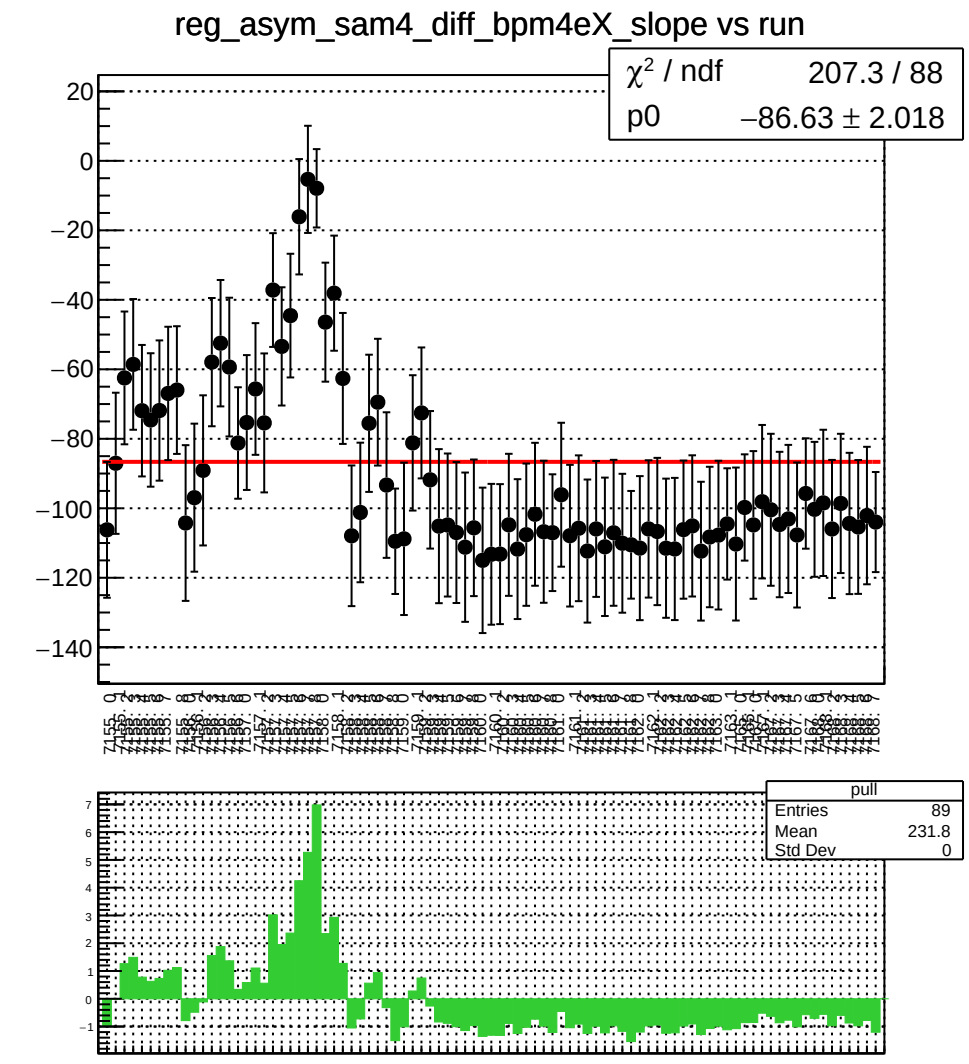

pull1D
Entries 89
Mean 0.002262
Std Dev 0.3198

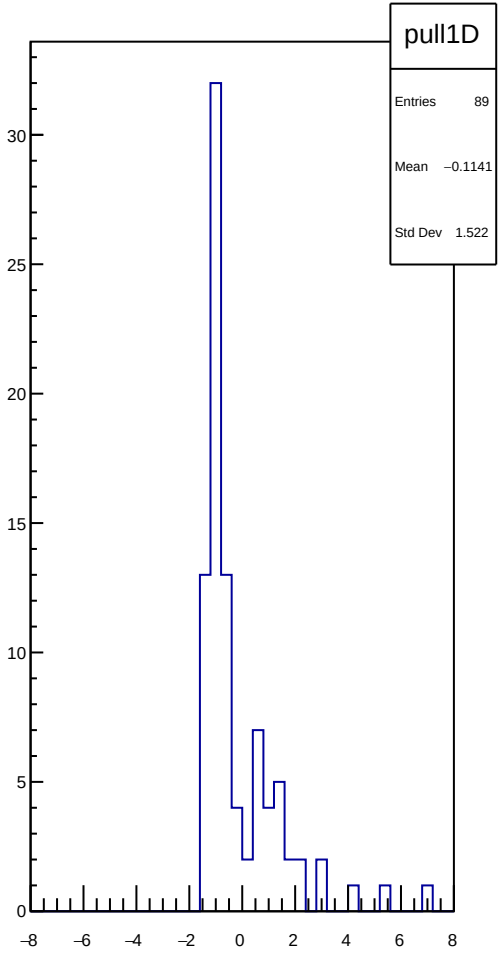

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 244.5 / 88
p0 −69.91 ± 1.992
pull
Entries 89
Mean 229
Std Dev 0

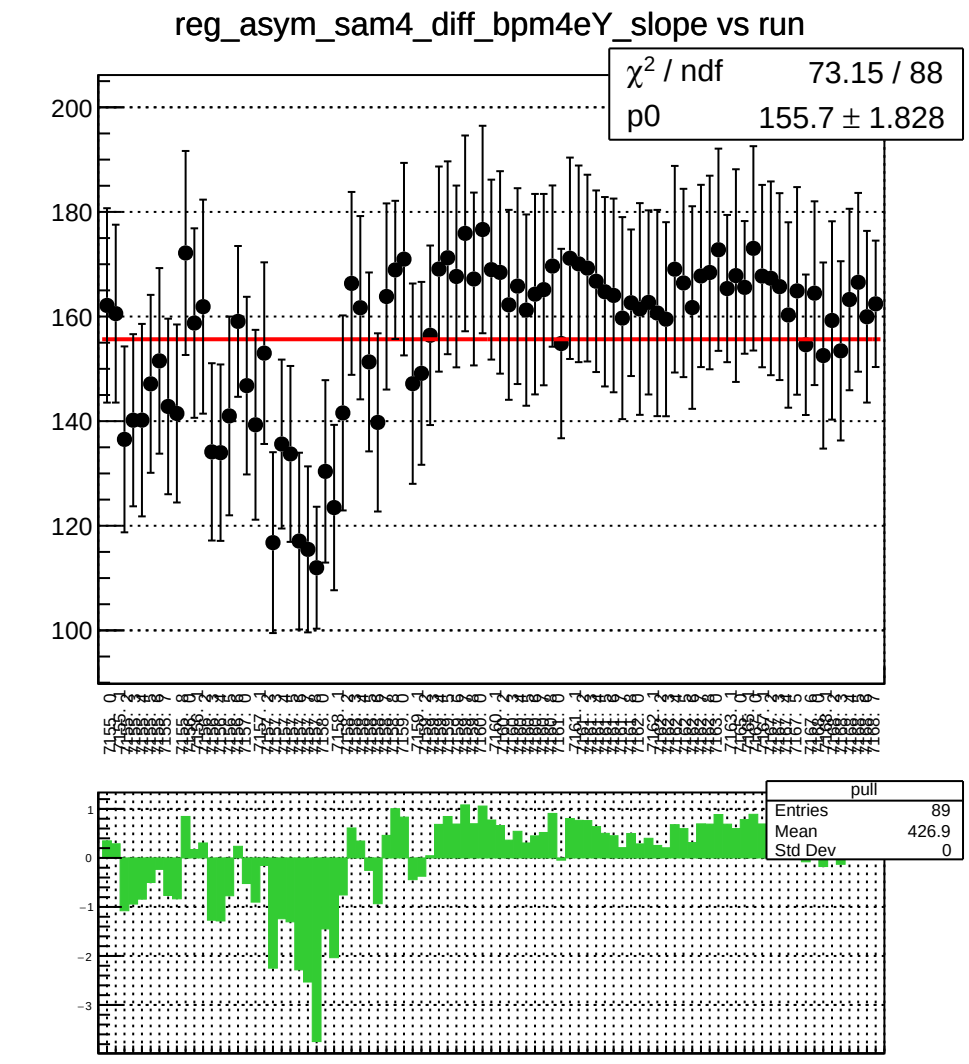

pull1D
Entries 89
Mean 0.1255
Std Dev 1.653

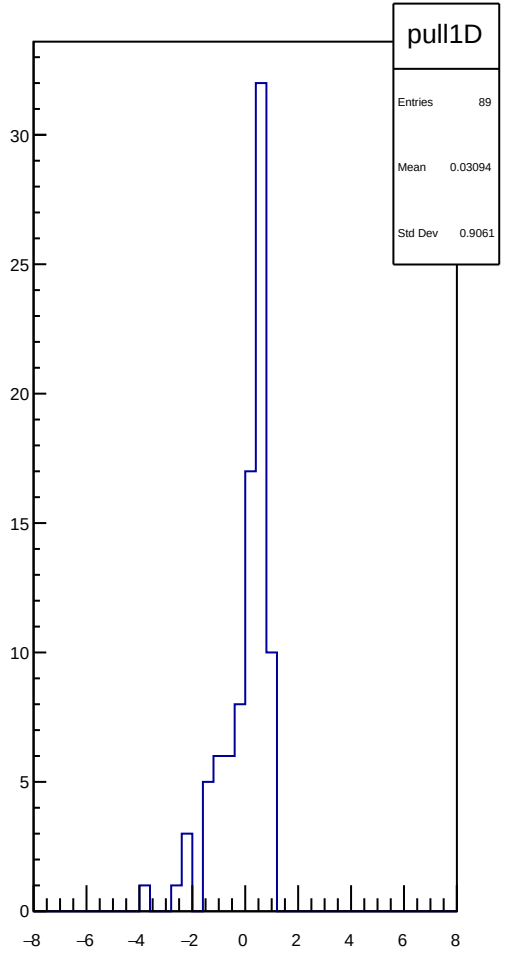

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 81.29 / 88
p0 40.66 ± 1.574
pull
Entries 89
Mean 1751
Std Dev 0

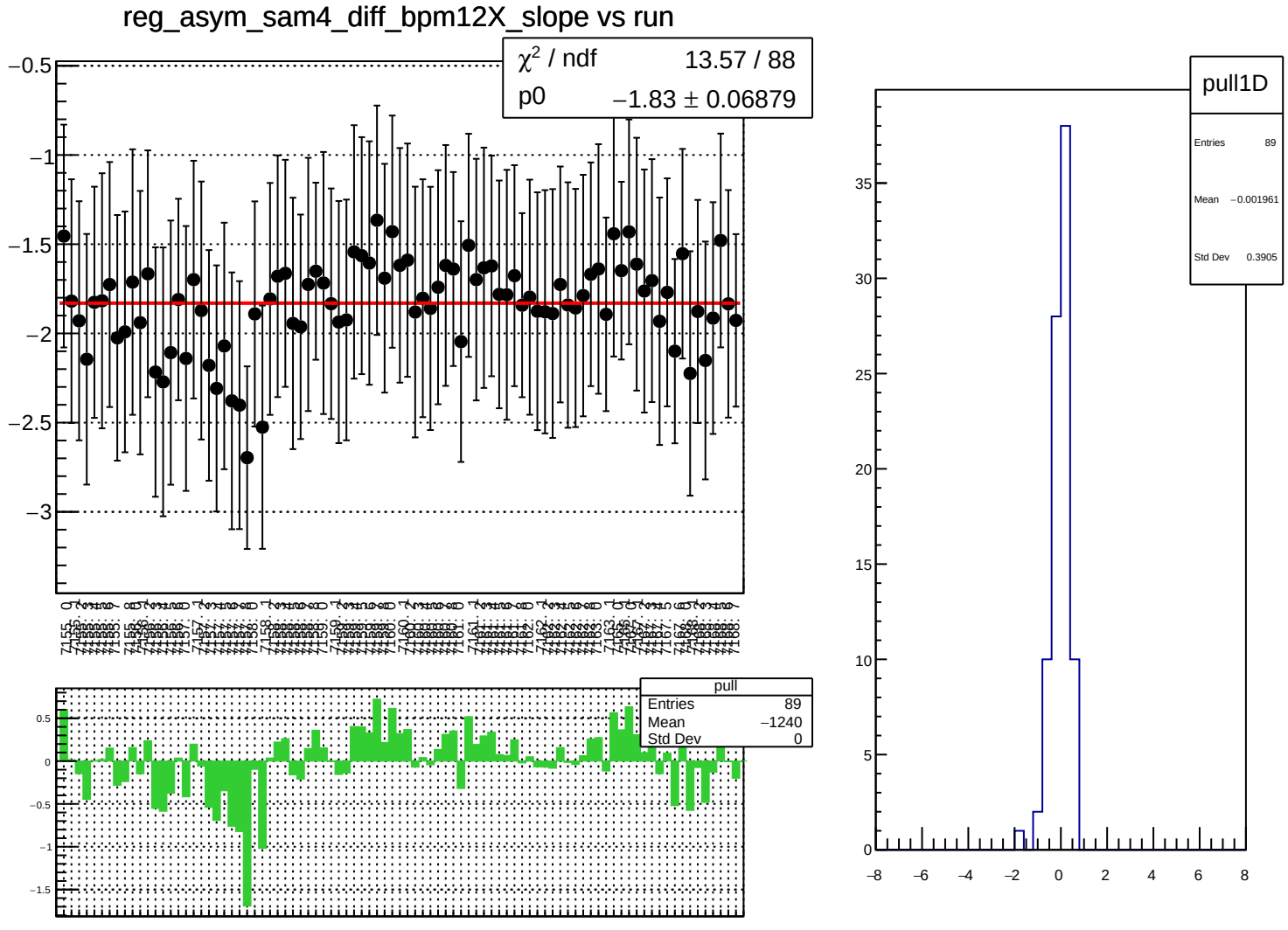

pull1D
Entries 89
Mean −0.008092
Std Dev 0.9557

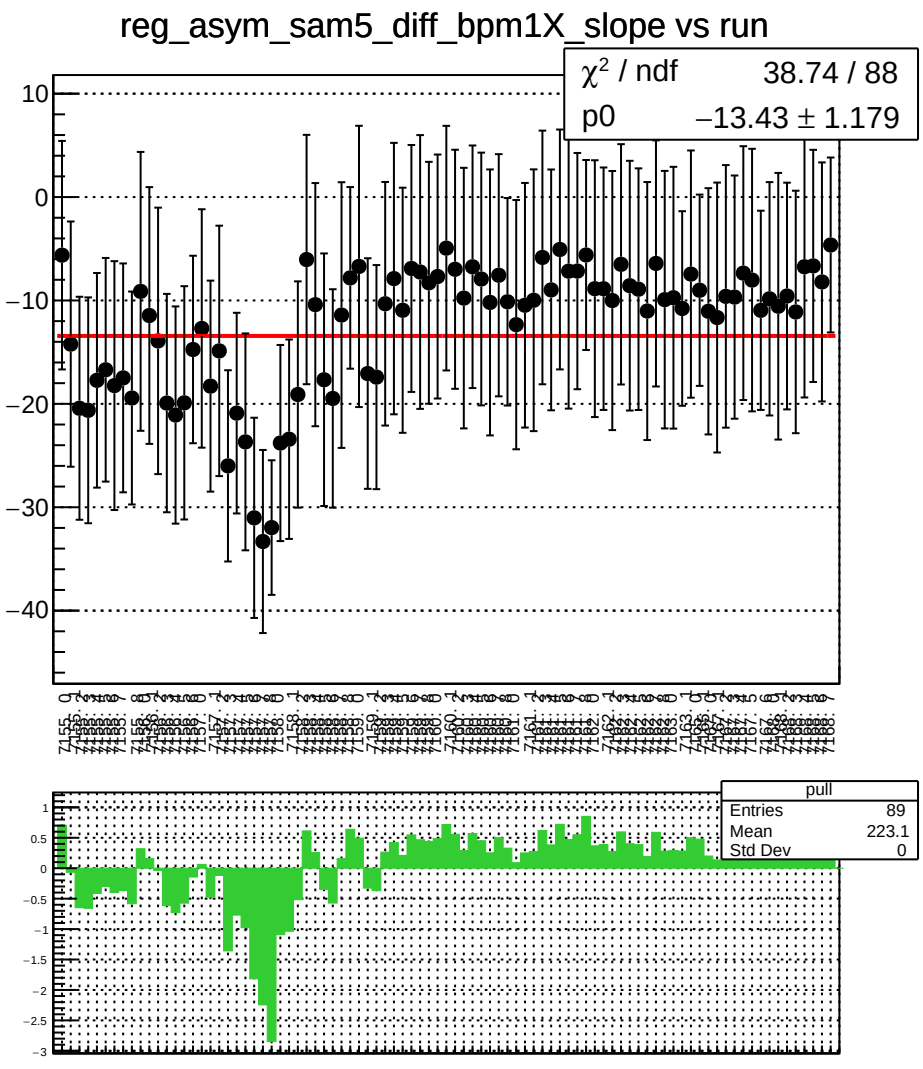

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 207.3 / 88
p0 −86.63 ± 2.018
pull
Entries 89
Mean 231.8
Std Dev 0

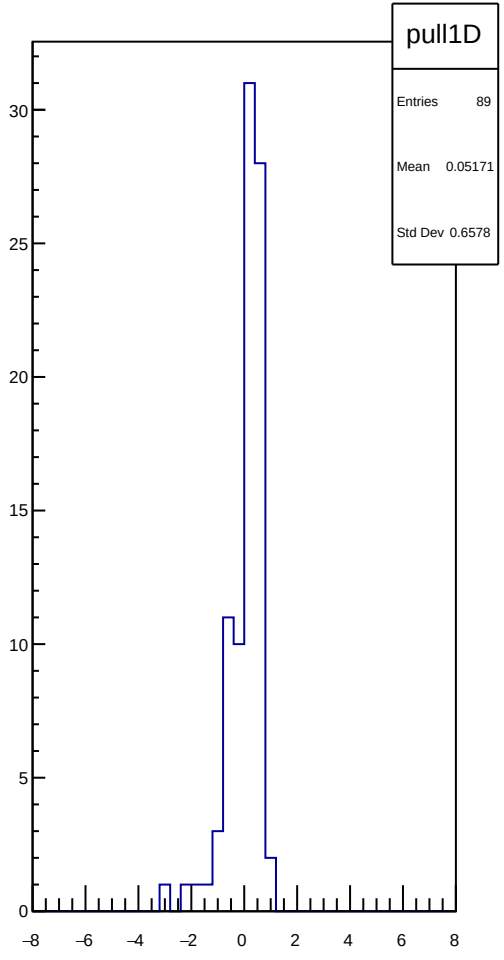

pull1D
Entries 89
Mean −0.1141
Std Dev 1.522

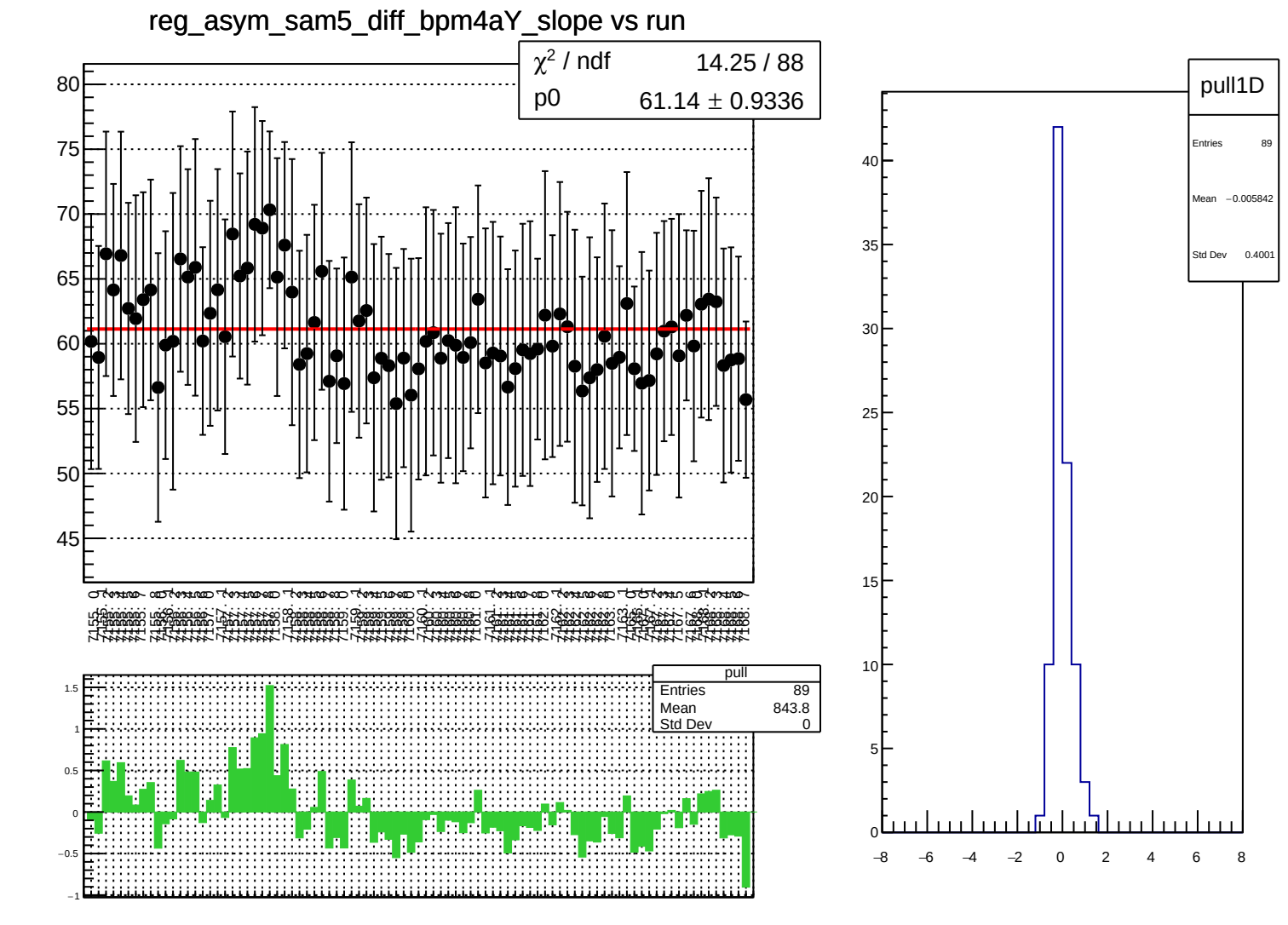

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 73.15 / 88
p0 155.7 ± 1.828
200
180
160
140
120
100
pull
Entries 89
Mean 426.9
Std Dev 0
1
0
−1
−2
−3

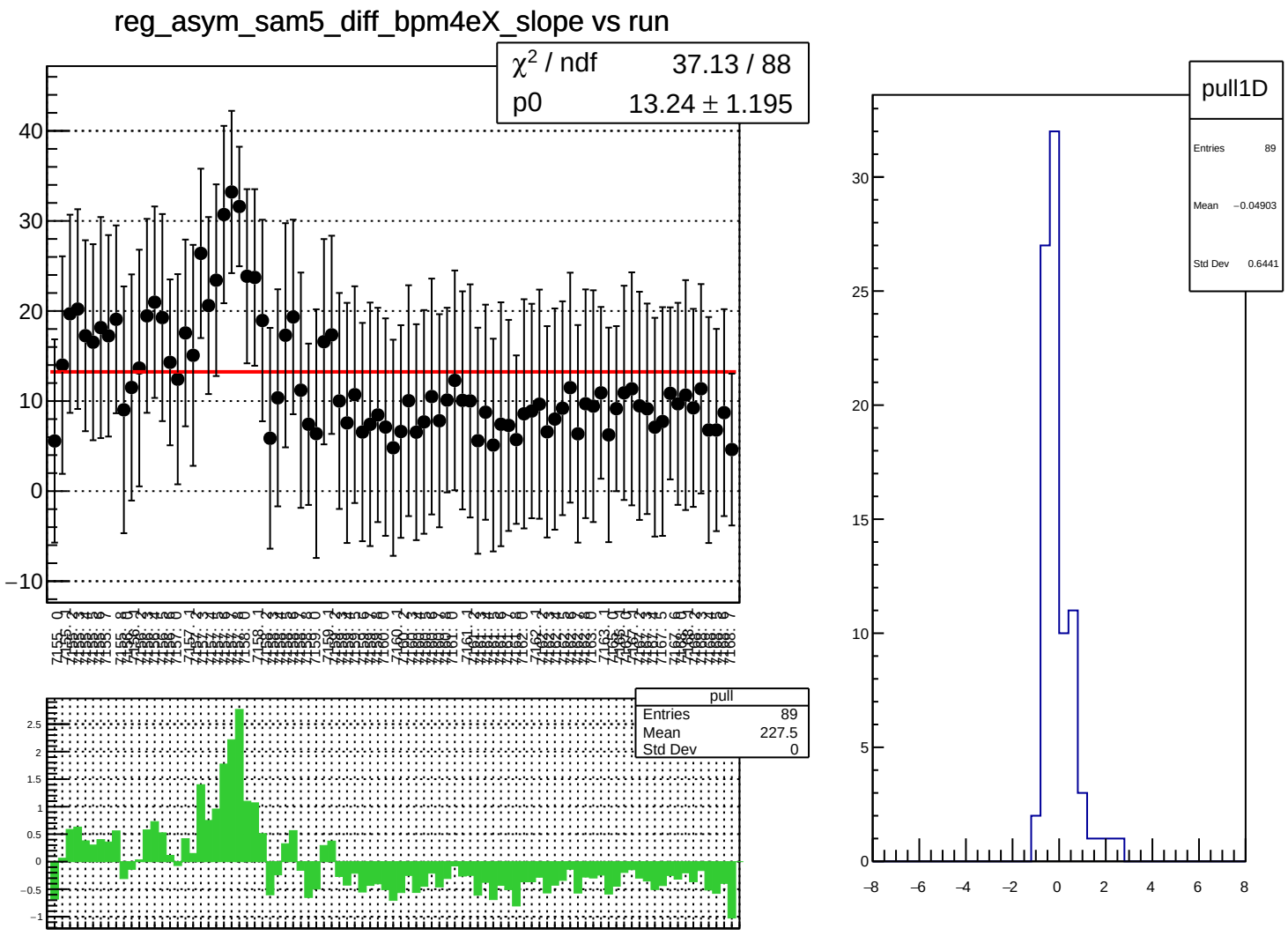

pull1D
Entries 89
Mean 0.03094
Std Dev 0.9061
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

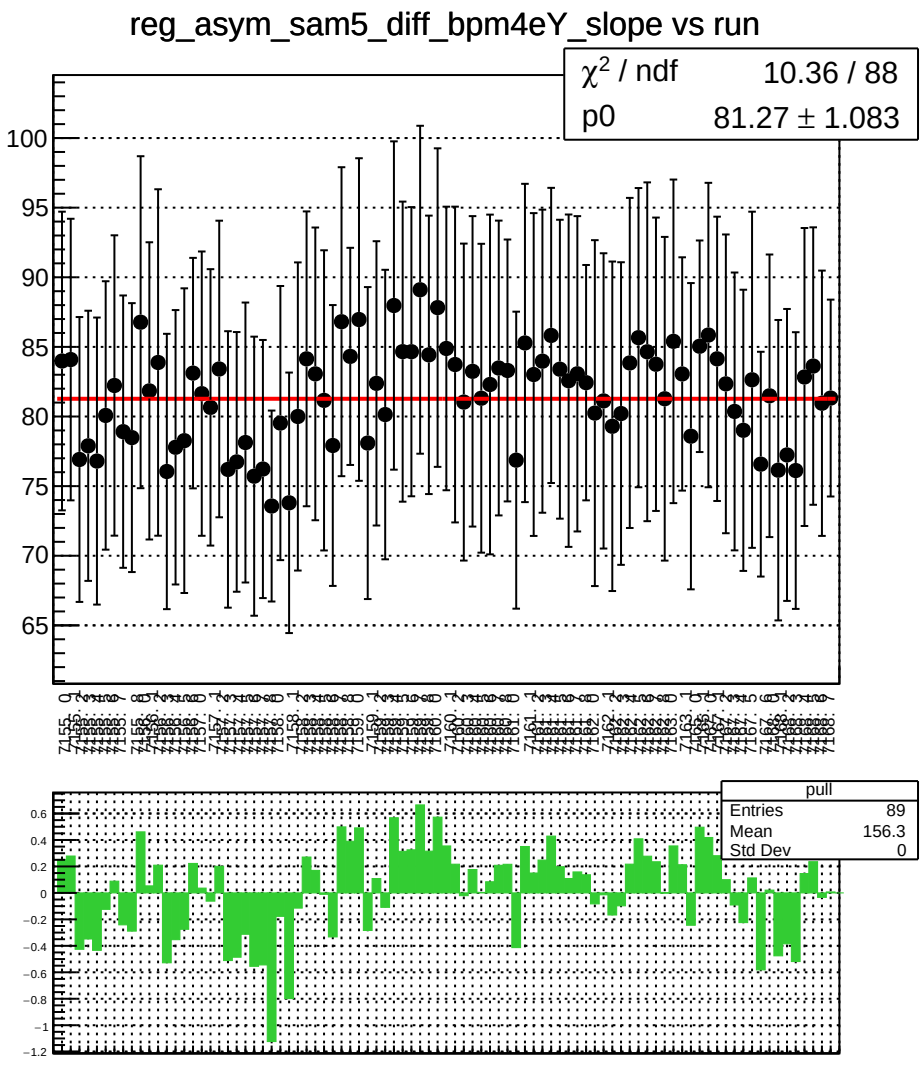

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 13.57 / 88
p0 −1.83 ± 0.06879
pull
Entries 89
Mean −1240
Std Dev 0
pull1D
Entries 89
Mean −0.001961
Std Dev 0.3905

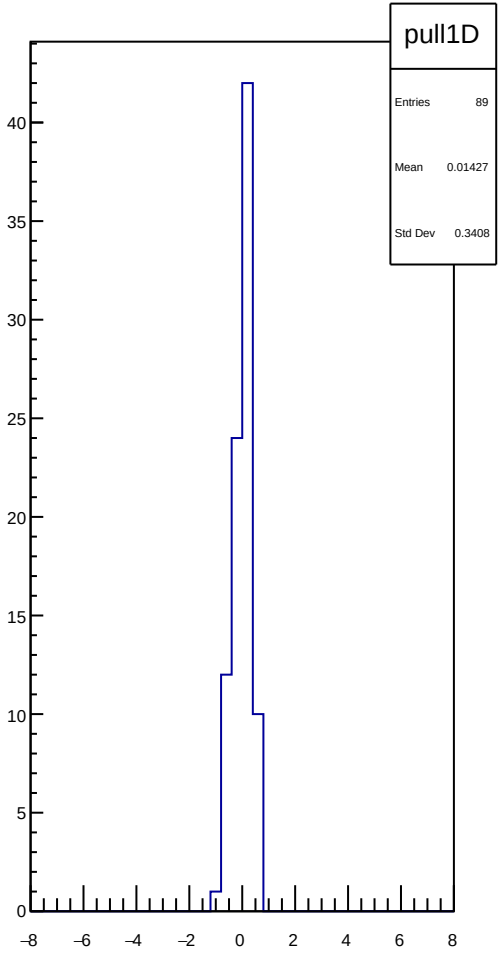

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 38.74 / 88
p0 −13.43 ± 1.179
pull
Entries 89
Mean 223.1
Std Dev 0

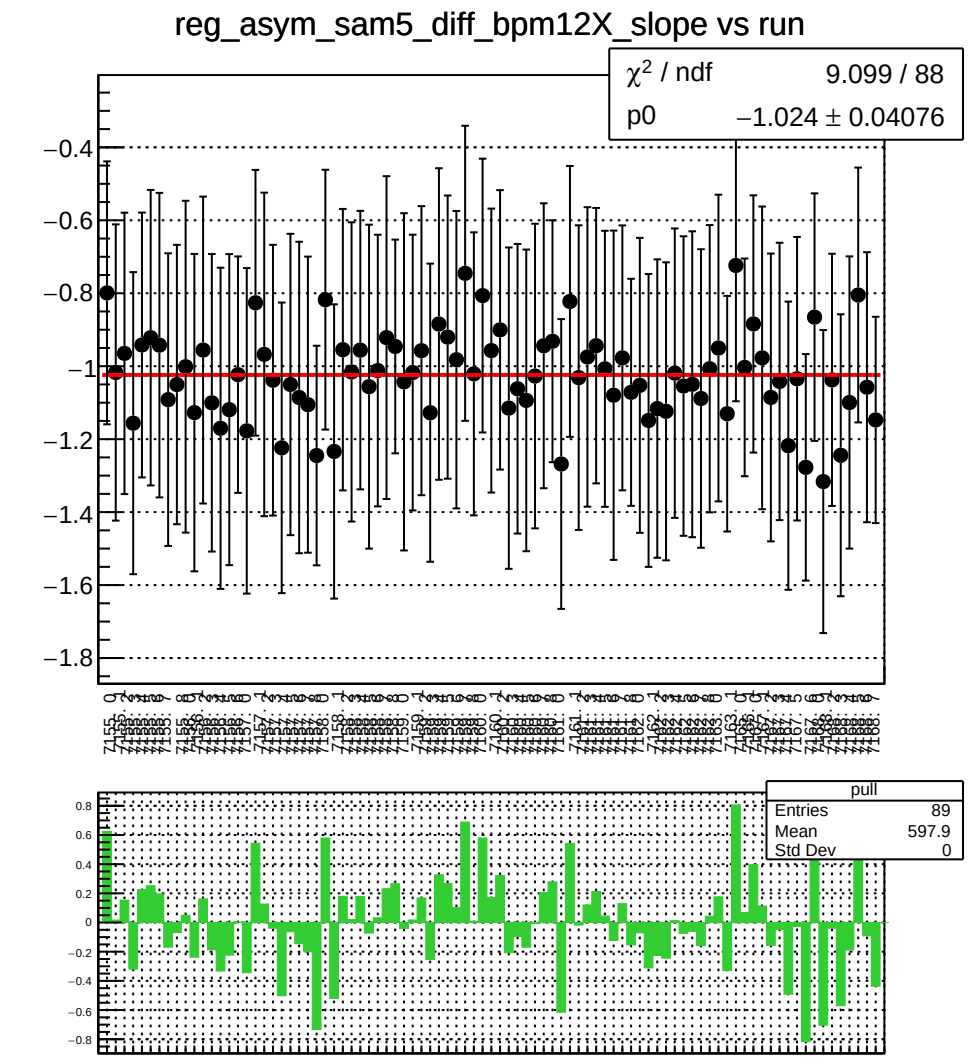

pull1D
Entries 89
Mean 0.05171
Std Dev 0.6578

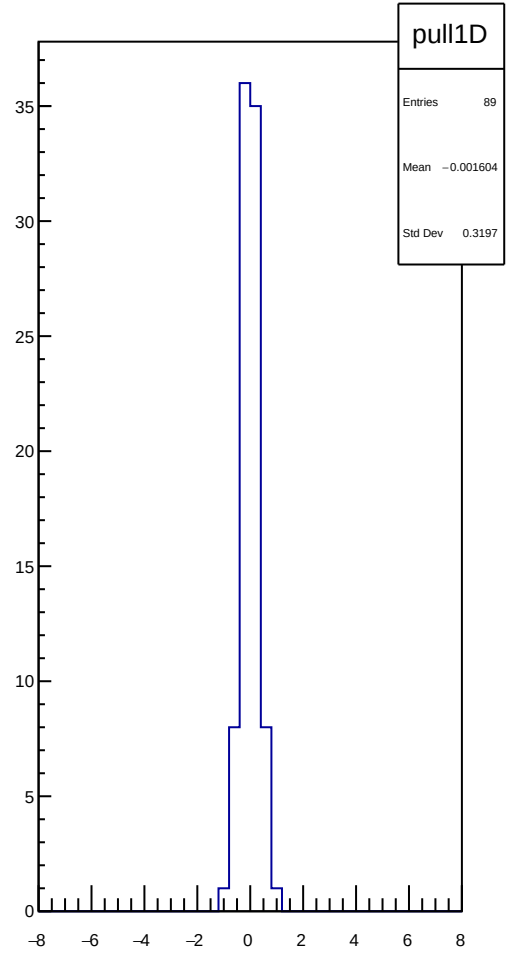

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 14.25 / 88
p0 61.14 ± 0.9336
pull
Entries 89
Mean 843.8
Std Dev 0
pull1D
Entries 89
Mean −0.005842
Std Dev 0.4001

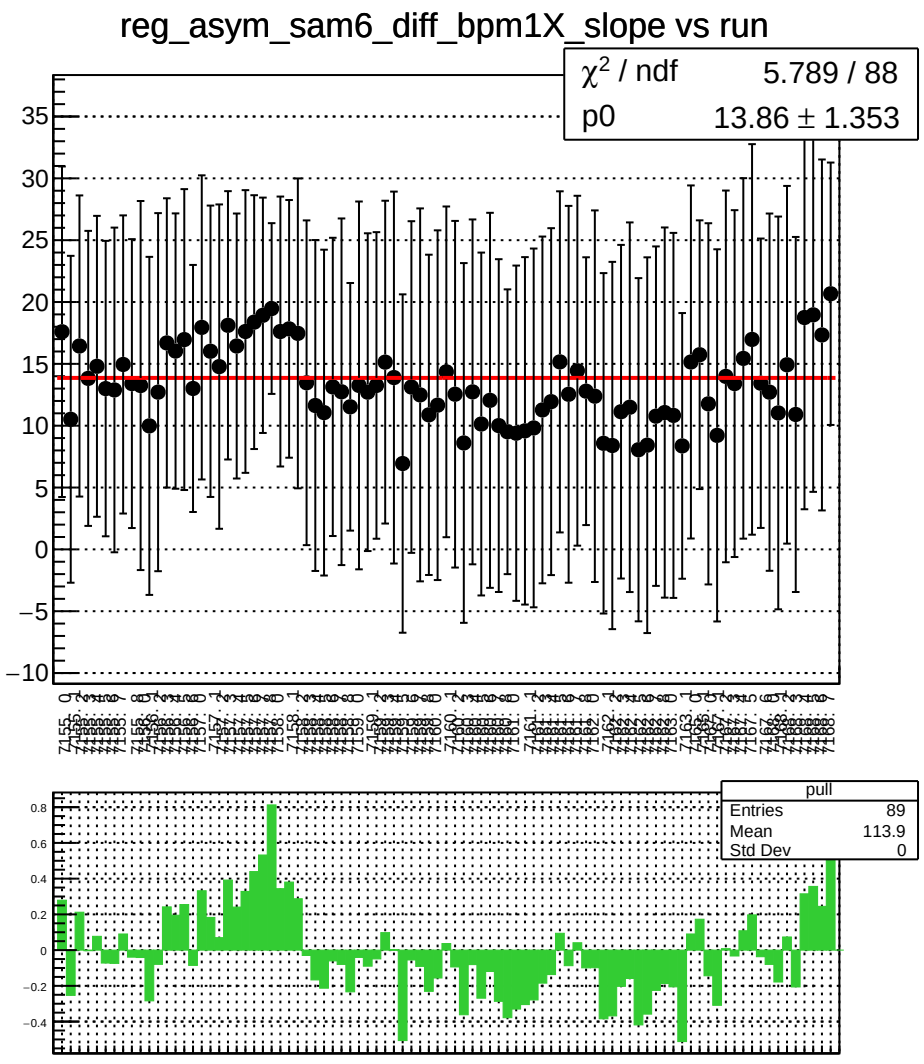

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 37.13 / 88
p0 13.24 ± 1.195
pull
Entries 89
Mean 227.5
Std Dev 0
pull1D
Entries 89
Mean −0.04903
Std Dev 0.6441

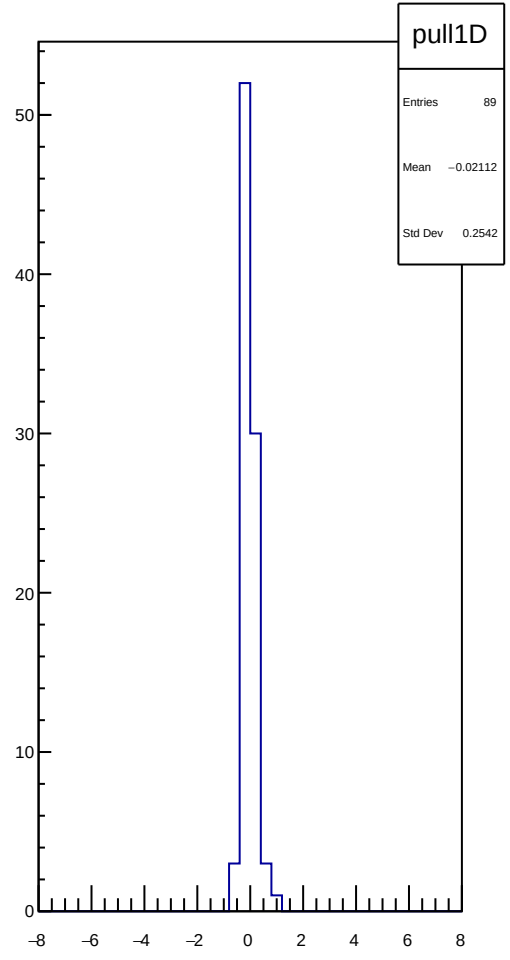

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 10.36 / 88
p0 81.27 ± 1.083
pull
Entries 89
Mean 156.3
Std Dev 0

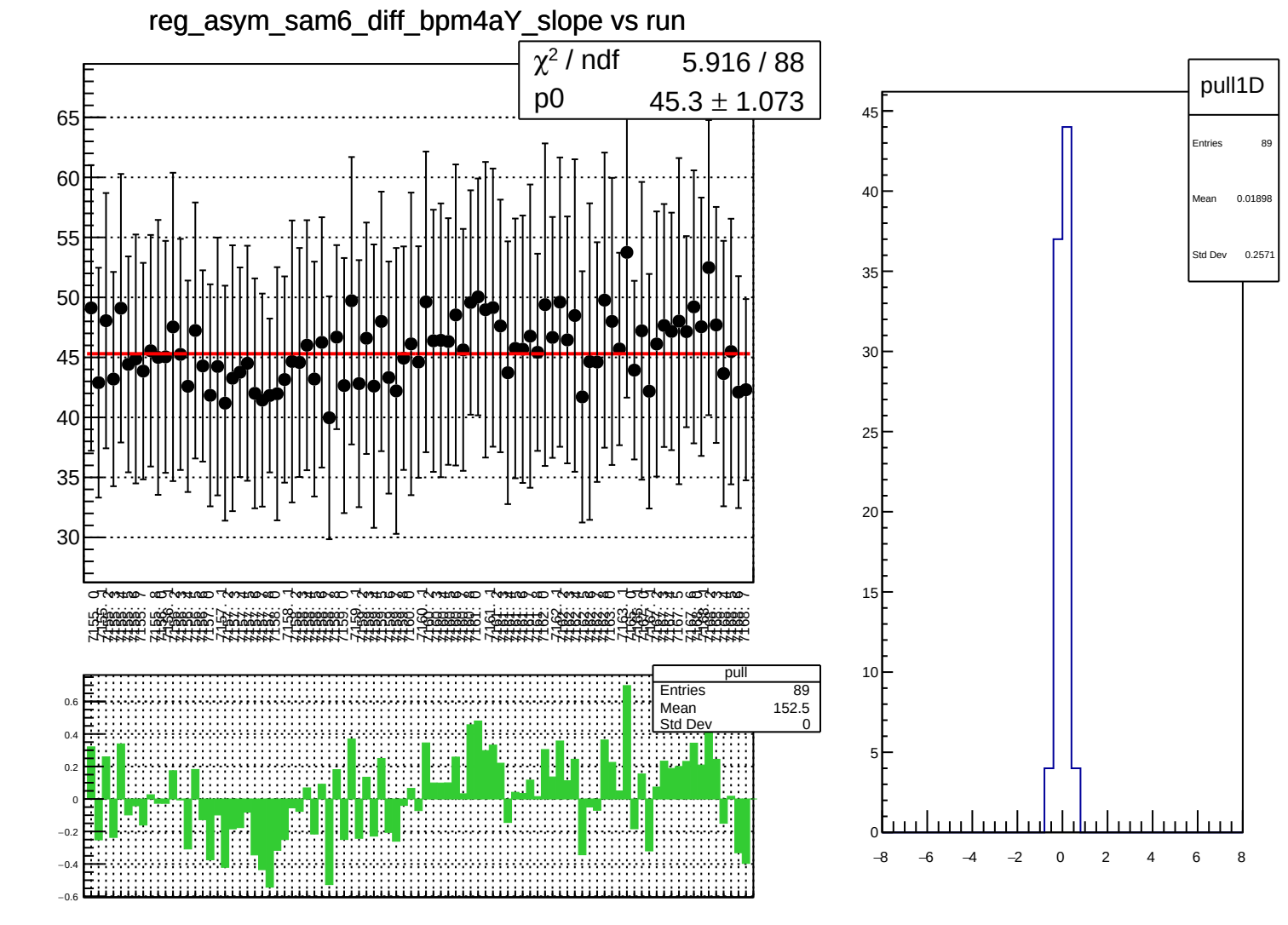

pull1D
Entries 89
Mean 0.01427
Std Dev 0.3408

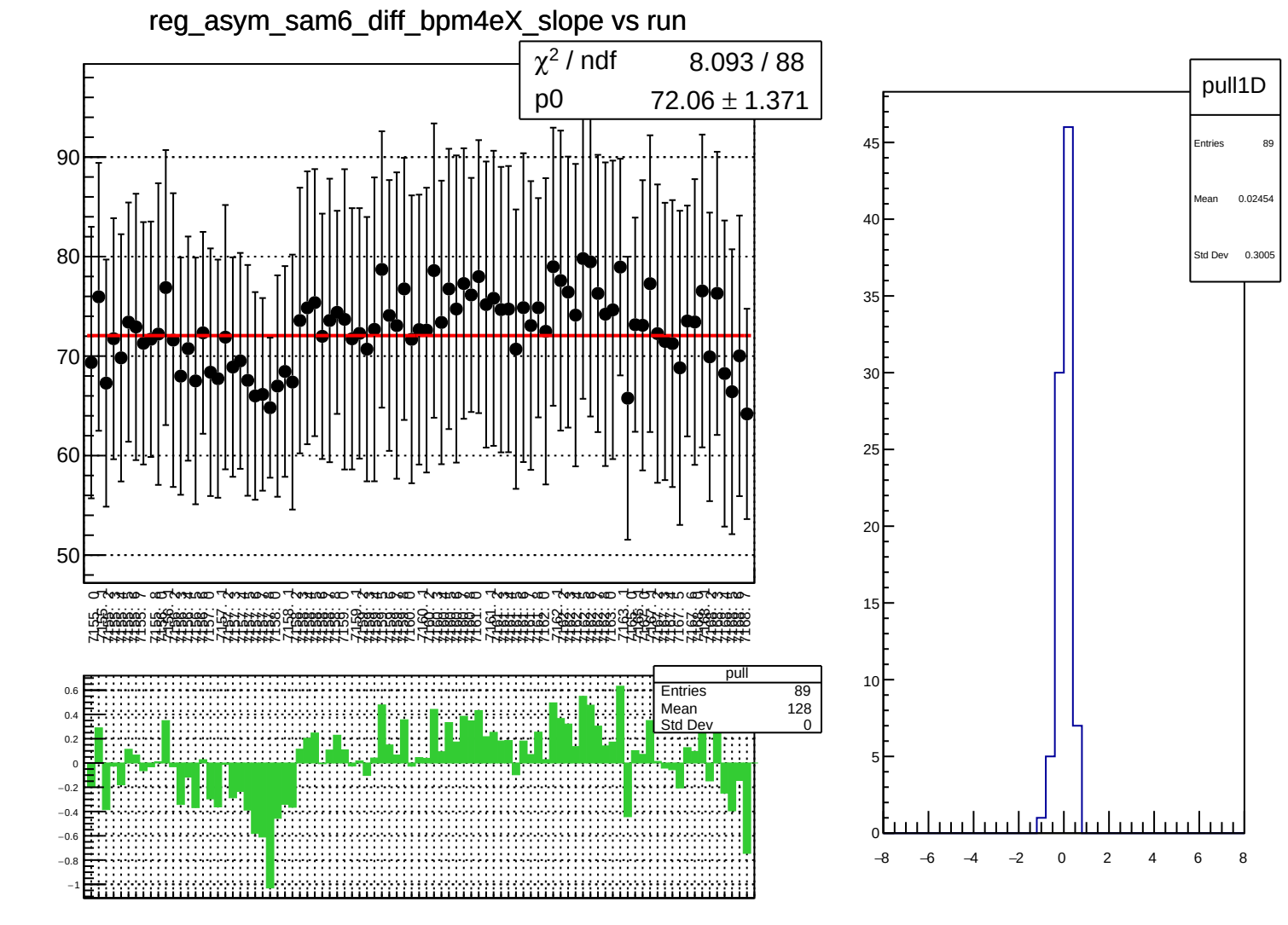

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 9.099 / 88
p0 −1.024 ± 0.04076
pull
Entries 89
Mean 597.9
Std Dev 0

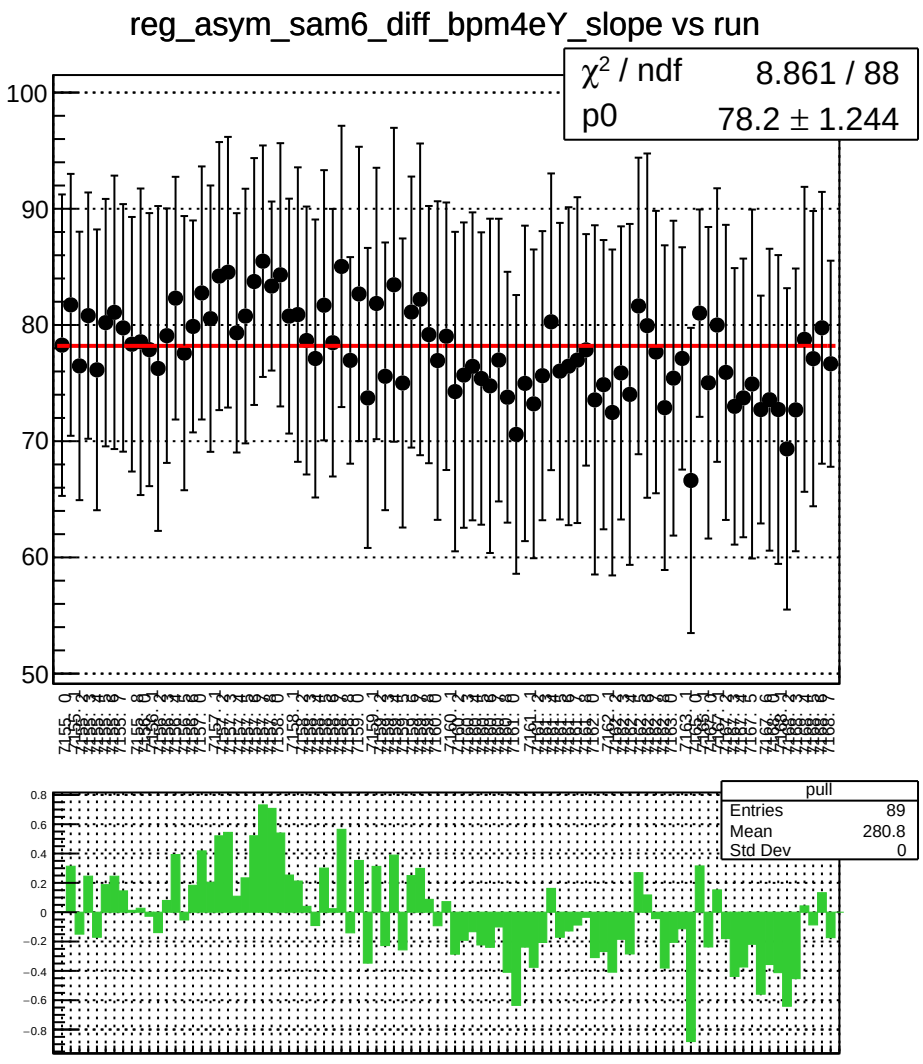

pull1D
Entries 89
Mean −0.001604
Std Dev 0.3197

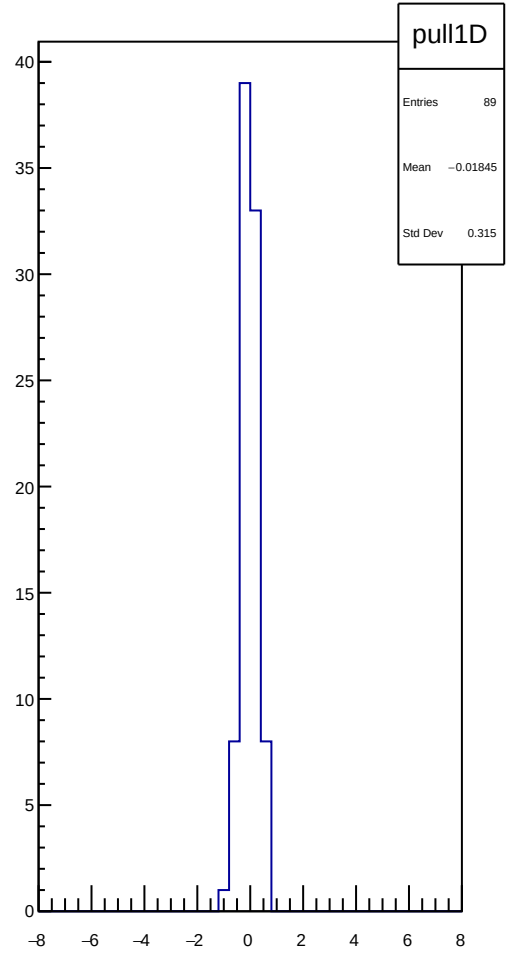

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 5.789 / 88
p0 13.86 ± 1.353
pull
Entries 89
Mean 113.9
Std Dev 0

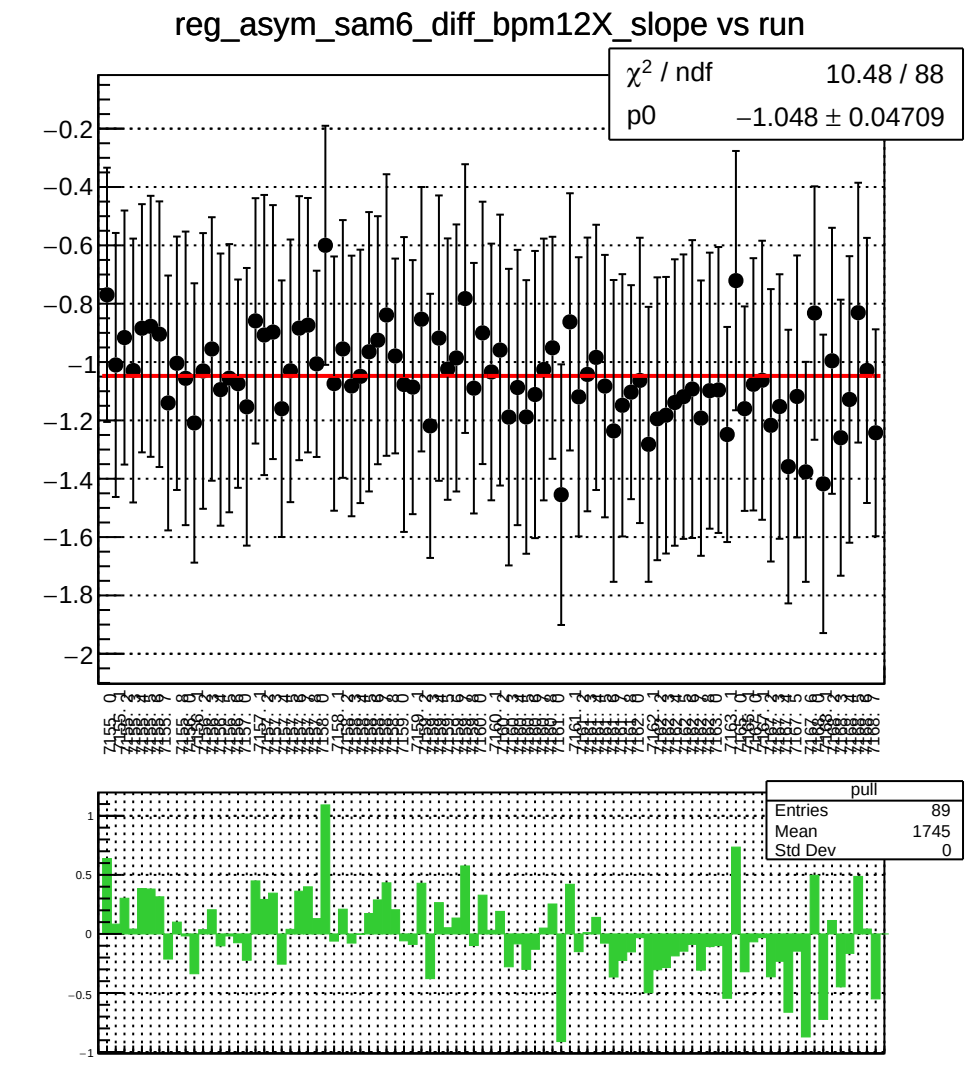

pull1D
Entries 89
Mean −0.02112
Std Dev 0.2542

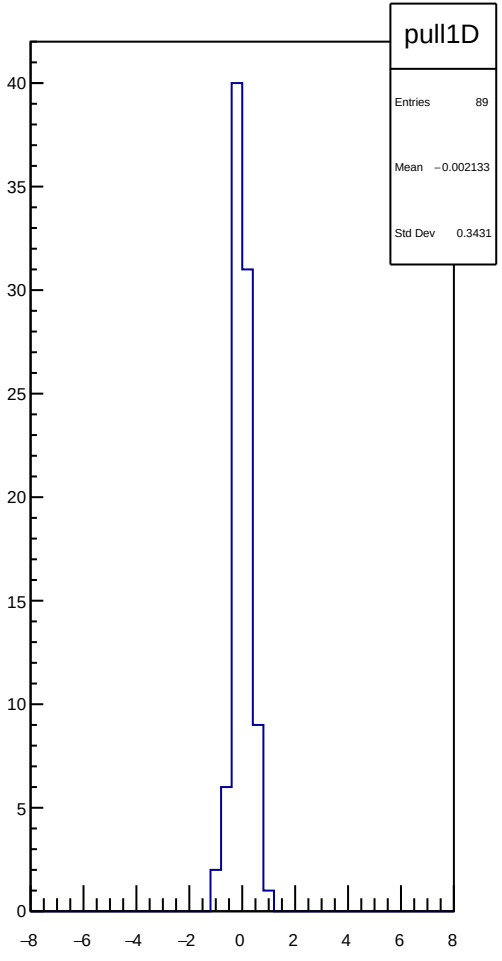

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 5.916 / 88
p0 45.3 ± 1.073
pull
Entries 89
Mean 152.5
Std Dev 0
pull1D
Entries 89
Mean 0.01898
Std Dev 0.2571

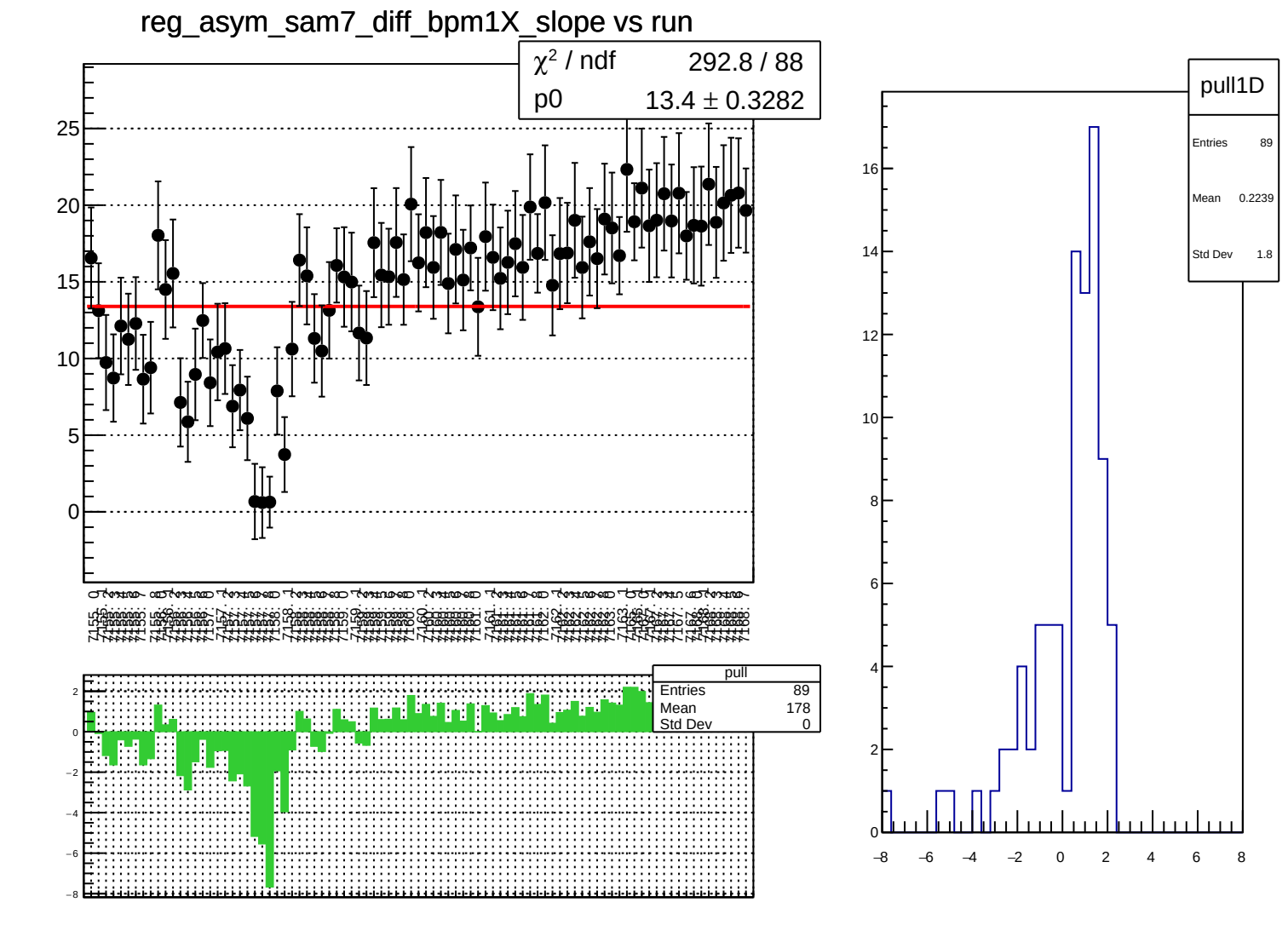

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 8.093 / 88
p0 72.06 ± 1.371
pull
Entries 89
Mean 128
Std Dev 0
pull1D
Entries 89
Mean 0.02454
Std Dev 0.3005

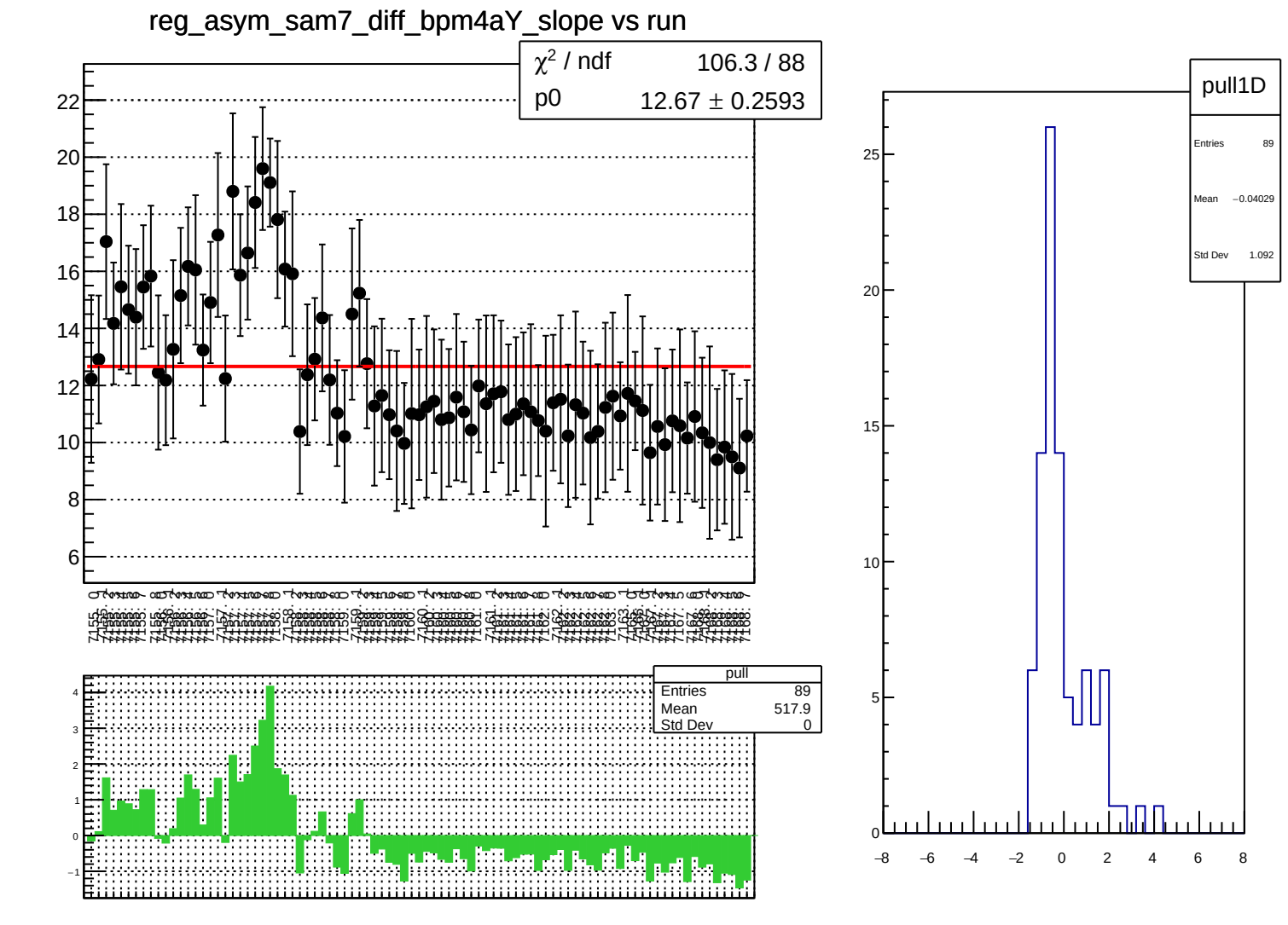

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 8.861 / 88
p0 78.2 ± 1.244
pull
Entries 89
Mean 280.8
Std Dev 0

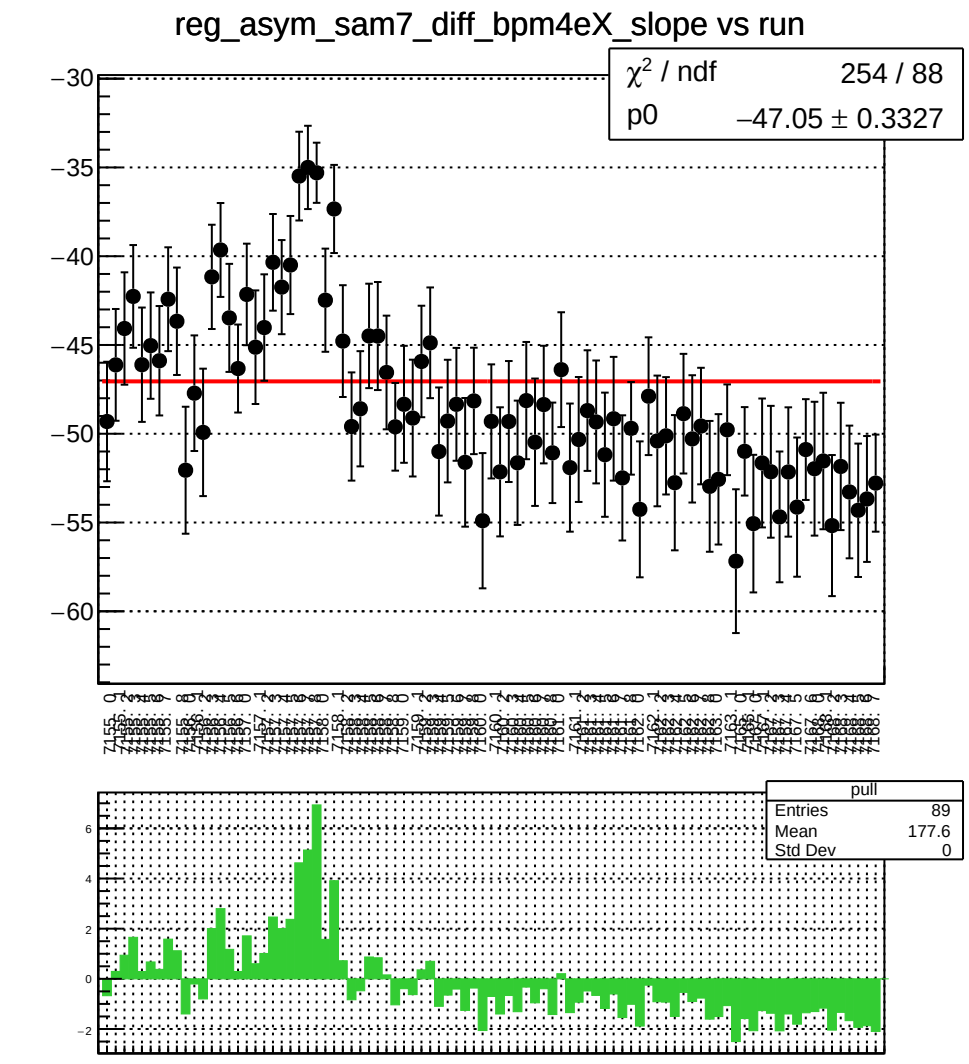

pull1D
Entries 89
Mean −0.01845
Std Dev 0.315

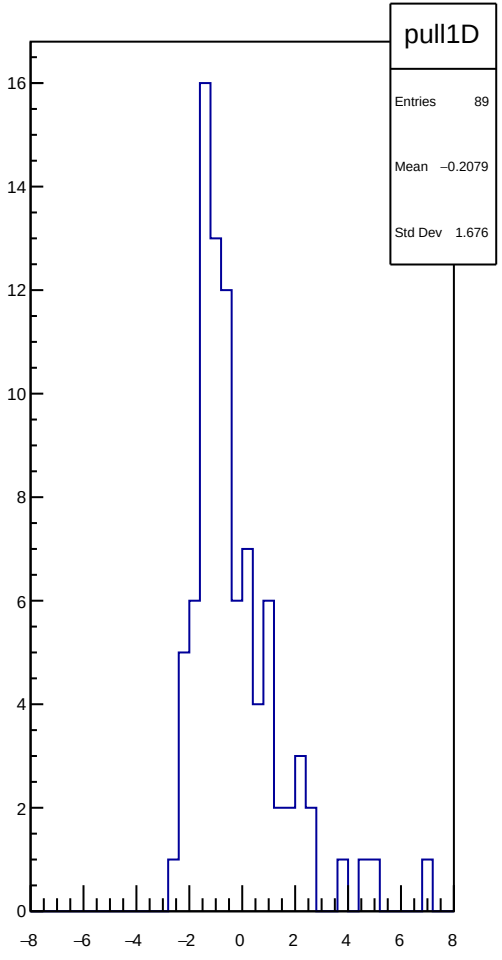

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 10.48 / 88
p0 −1.048 ± 0.04709
pull
Entries 89
Mean 1745
Std Dev 0

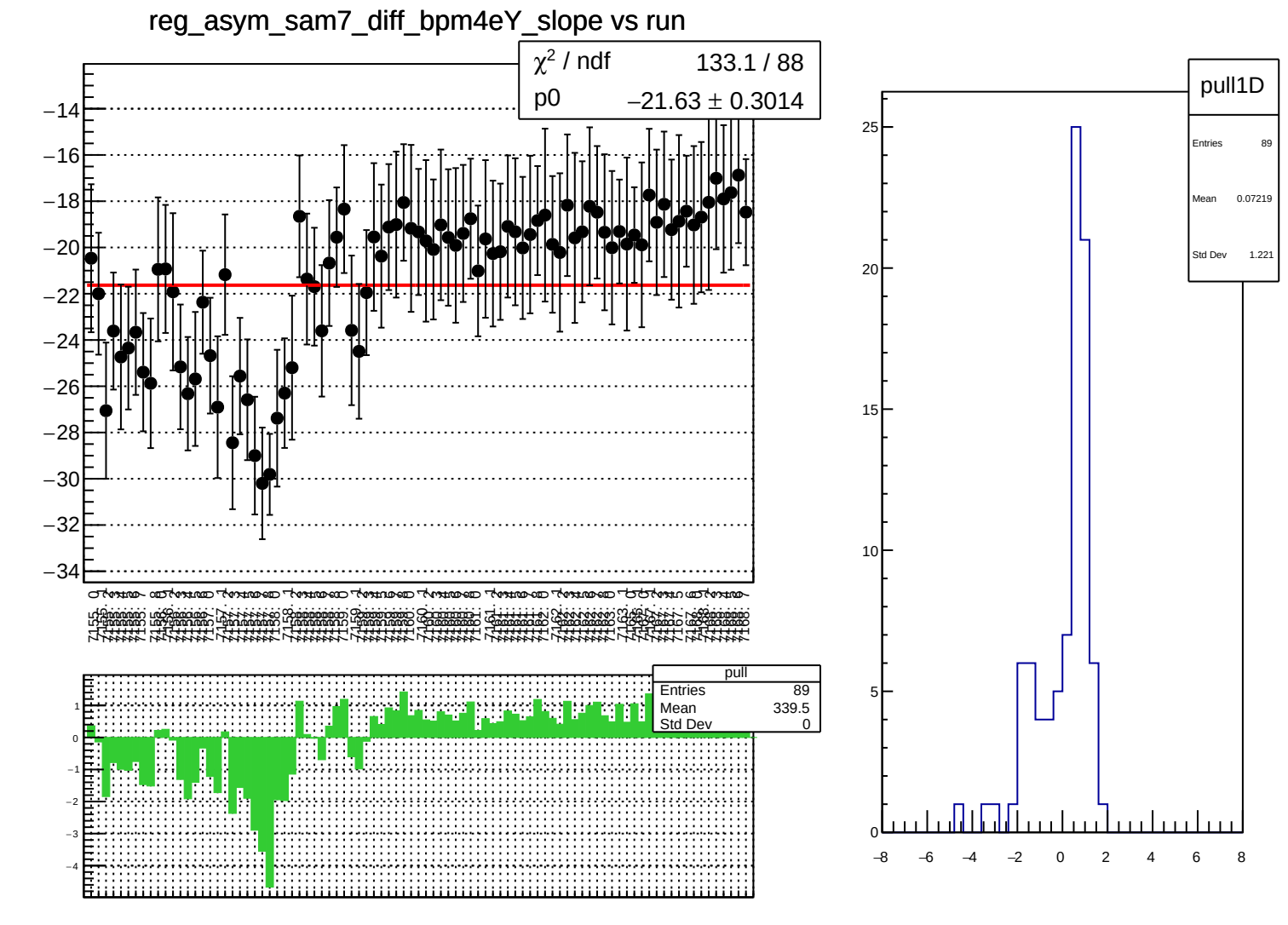

pull1D
Entries 89
Mean −0.002133
Std Dev 0.3431

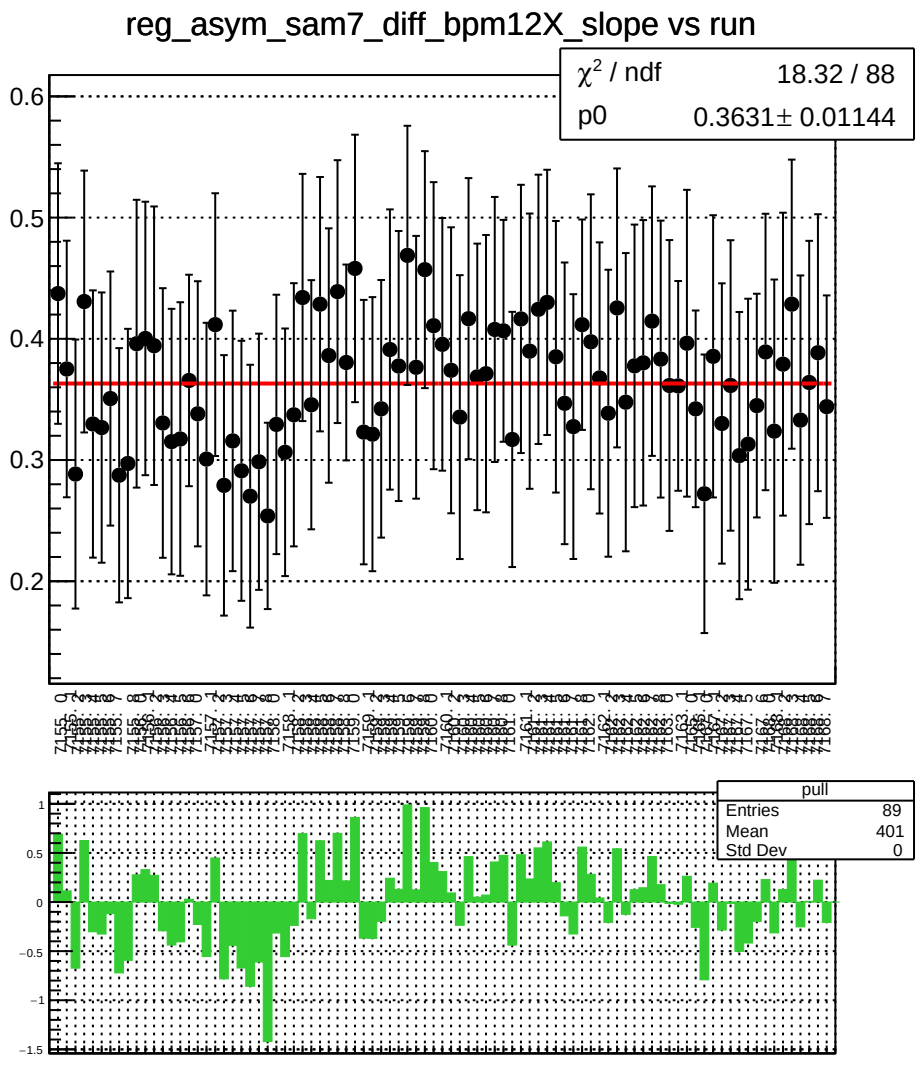

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 292.8 / 88
p0 13.4 ± 0.3282
pull
Entries 89
Mean 178
Std Dev 0
pull1D
Entries 89
Mean 0.2239
Std Dev 1.8

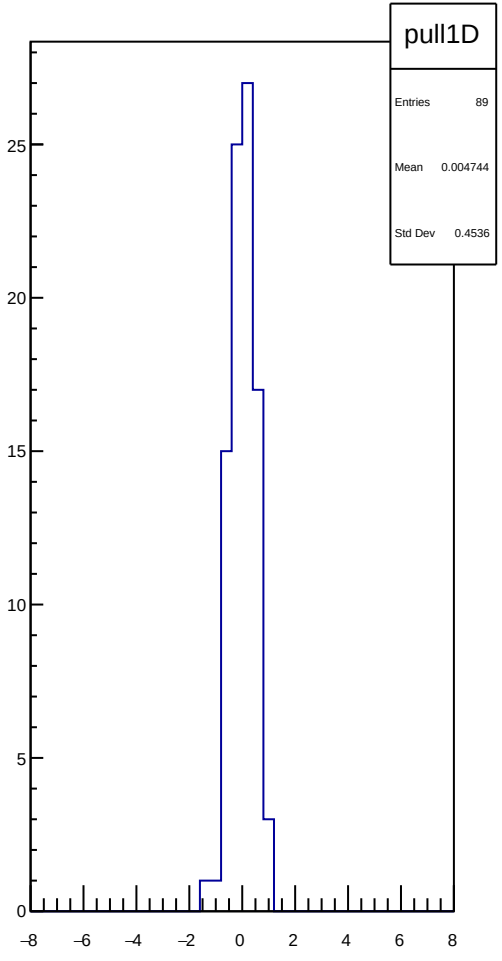

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 106.3 / 88
p0 12.67 ± 0.2593
pull
Entries 89
Mean 517.9
Std Dev 0
pull1D
Entries 89
Mean −0.04029
Std Dev 1.092

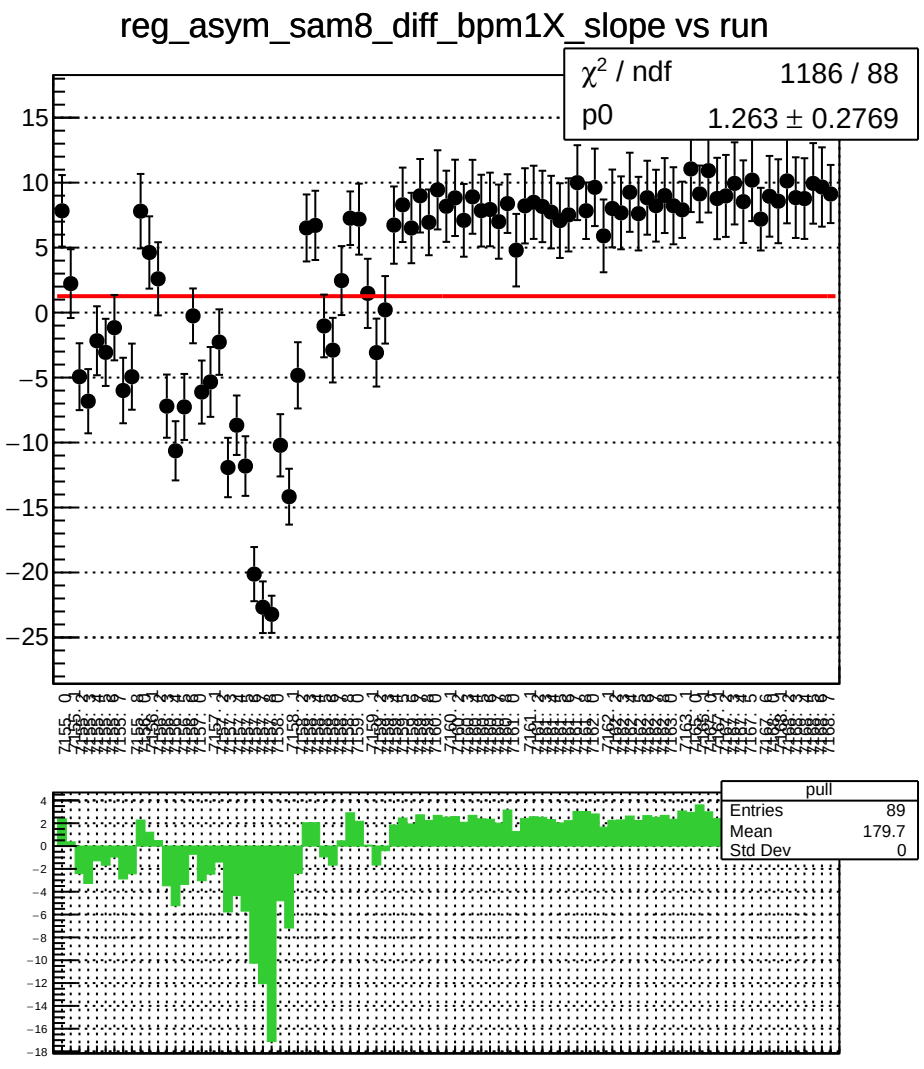

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 254 / 88
p0 −47.05 ± 0.3327
pull
Entries 89
Mean 177.6
Std Dev 0

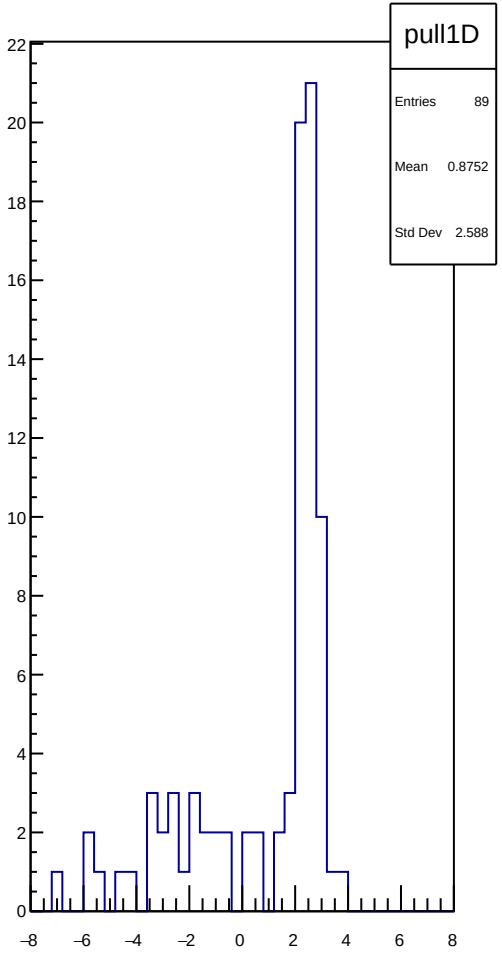

pull1D
Entries 89
Mean −0.2079
Std Dev 1.676

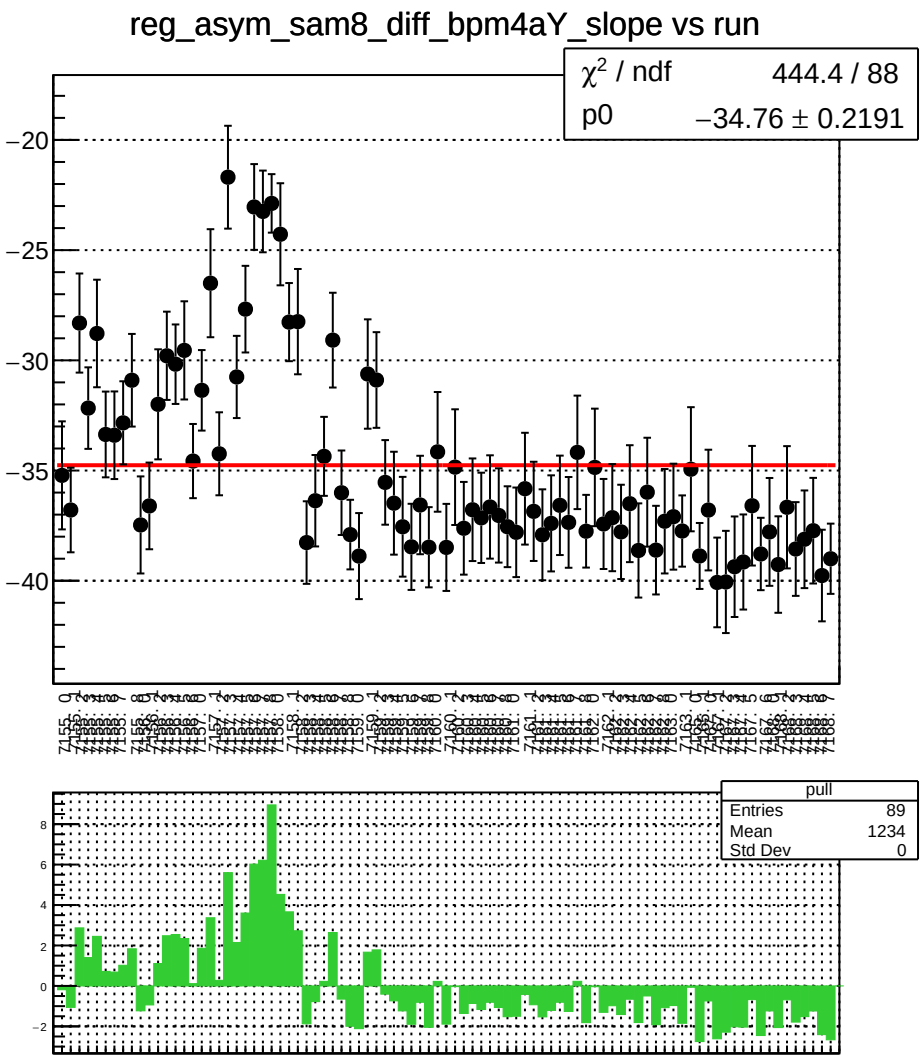

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 133.1 / 88
p0 −21.63 ± 0.3014
pull
Entries 89
Mean 339.5
Std Dev 0
pull1D
Entries 89
Mean 0.07219
Std Dev 1.221

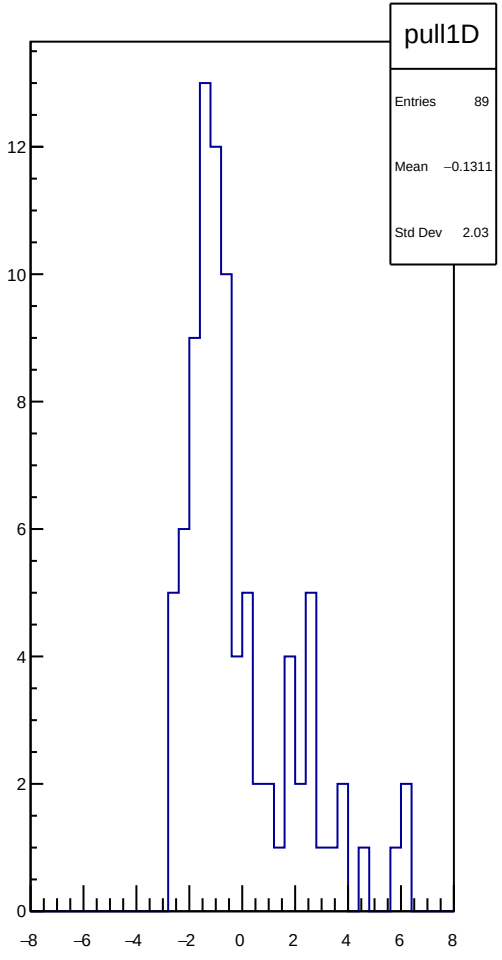

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 18.32 / 88
p0 0.3631± 0.01144
pull
Entries 89
Mean 401
Std Dev 0

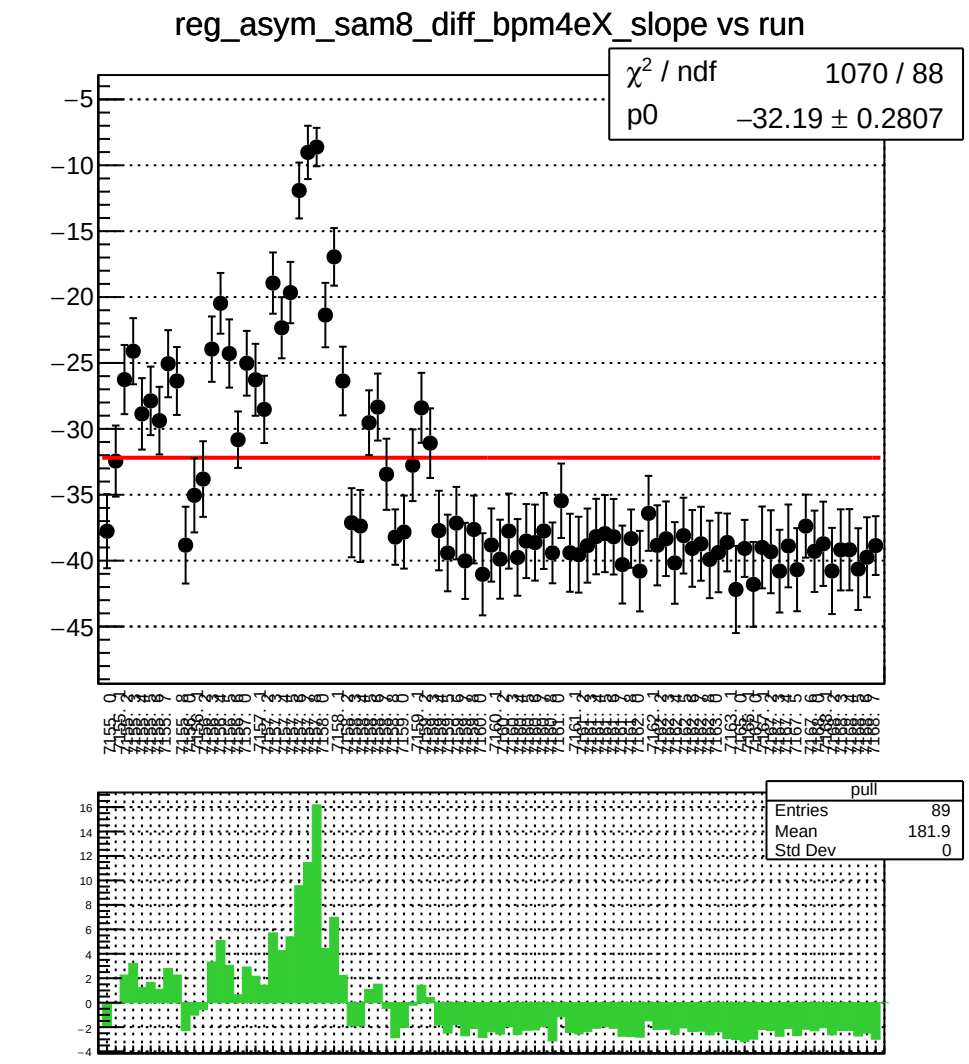

pull1D
Entries 89
Mean 0.004744
Std Dev 0.4536

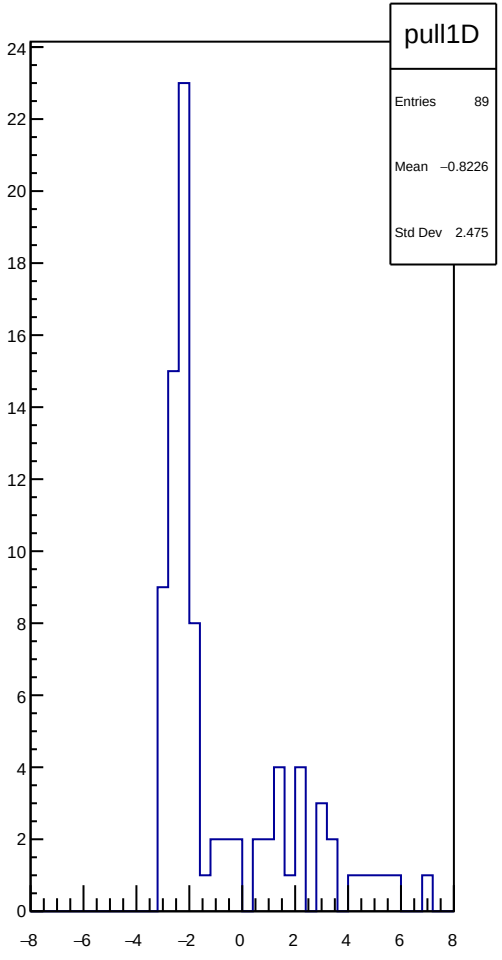

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1186 / 88
p0 1.263 ± 0.2769
pull
Entries 89
Mean 179.7
Std Dev 0

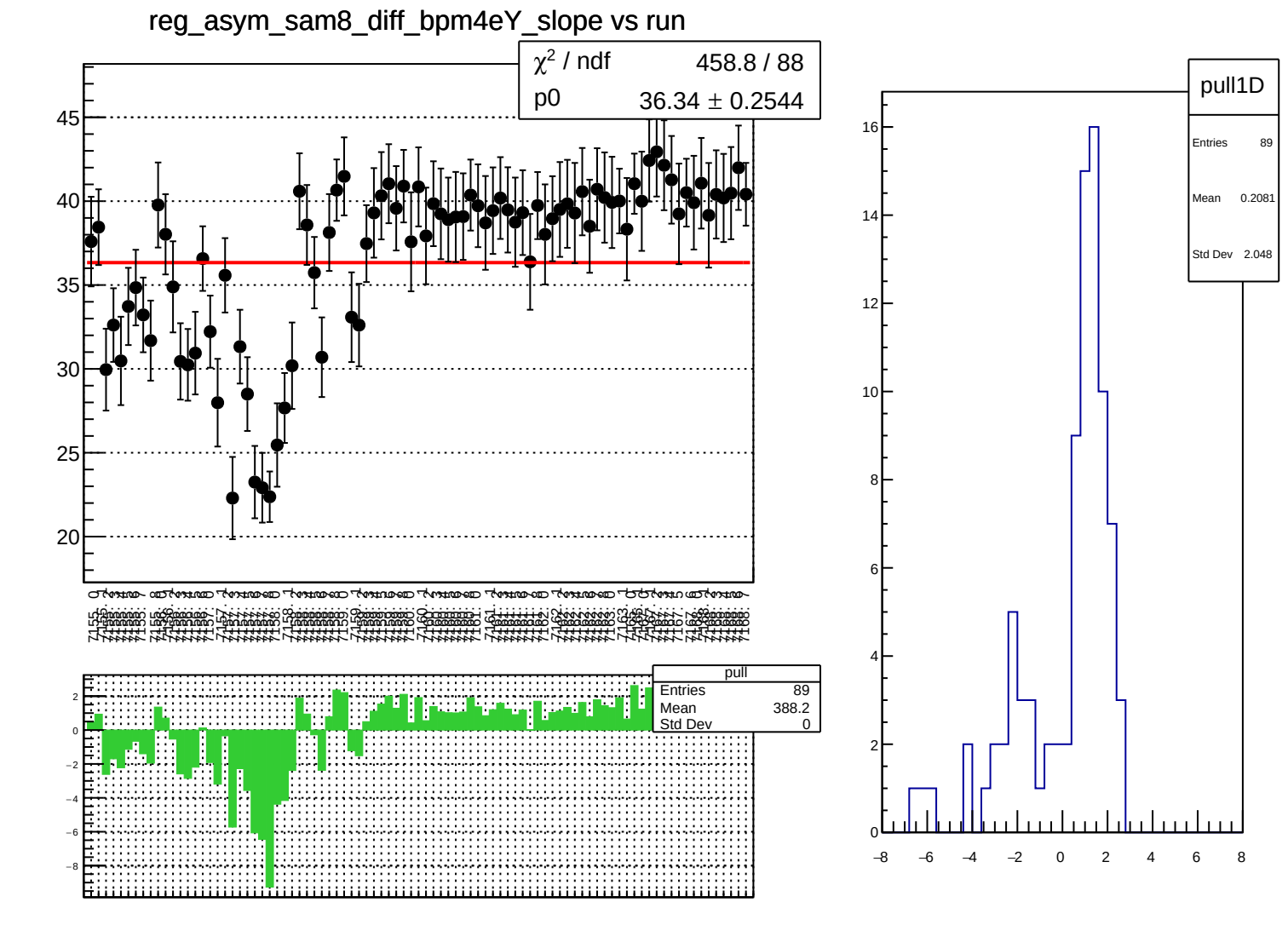

pull1D
Entries 89
Mean 0.8752
Std Dev 2.588

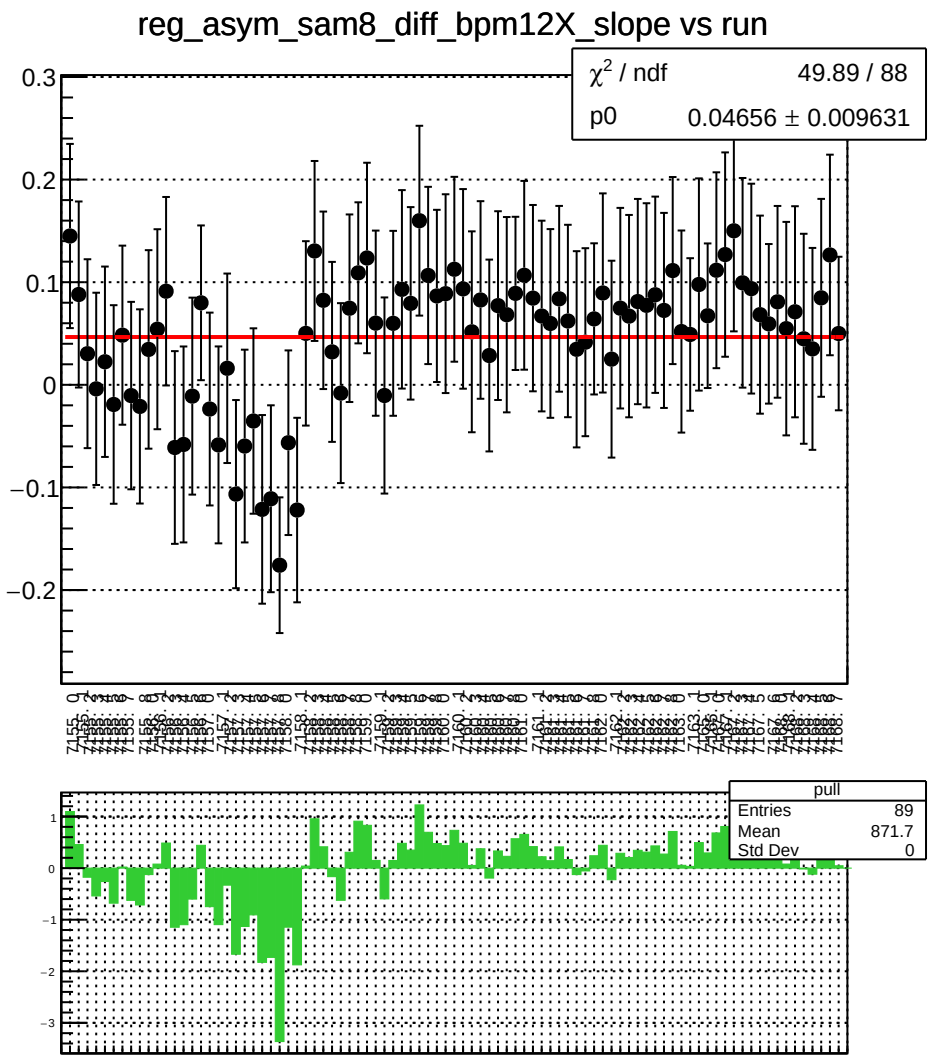

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 444.4 / 88
p0 −34.76 ± 0.2191
pull
Entries 89
Mean 1234
Std Dev 0

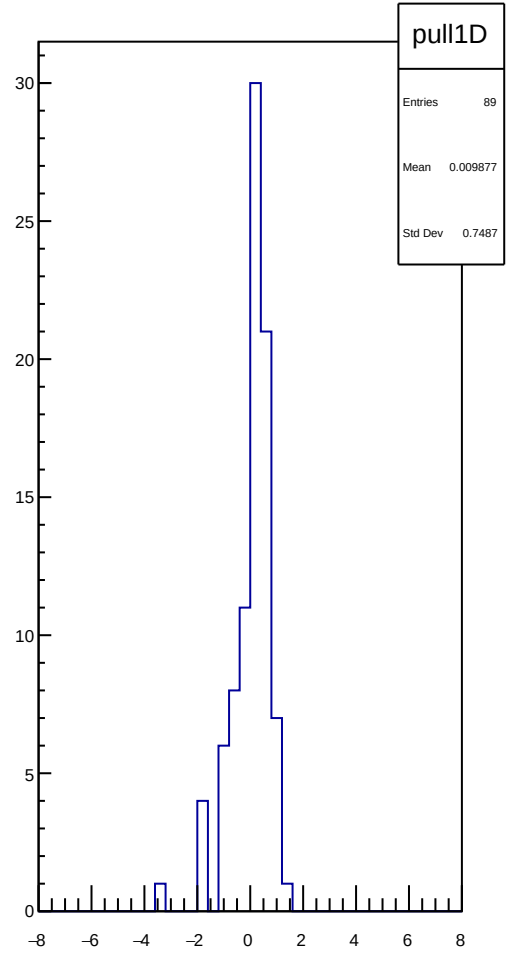

pull1D
Entries 89
Mean −0.1311
Std Dev 2.03

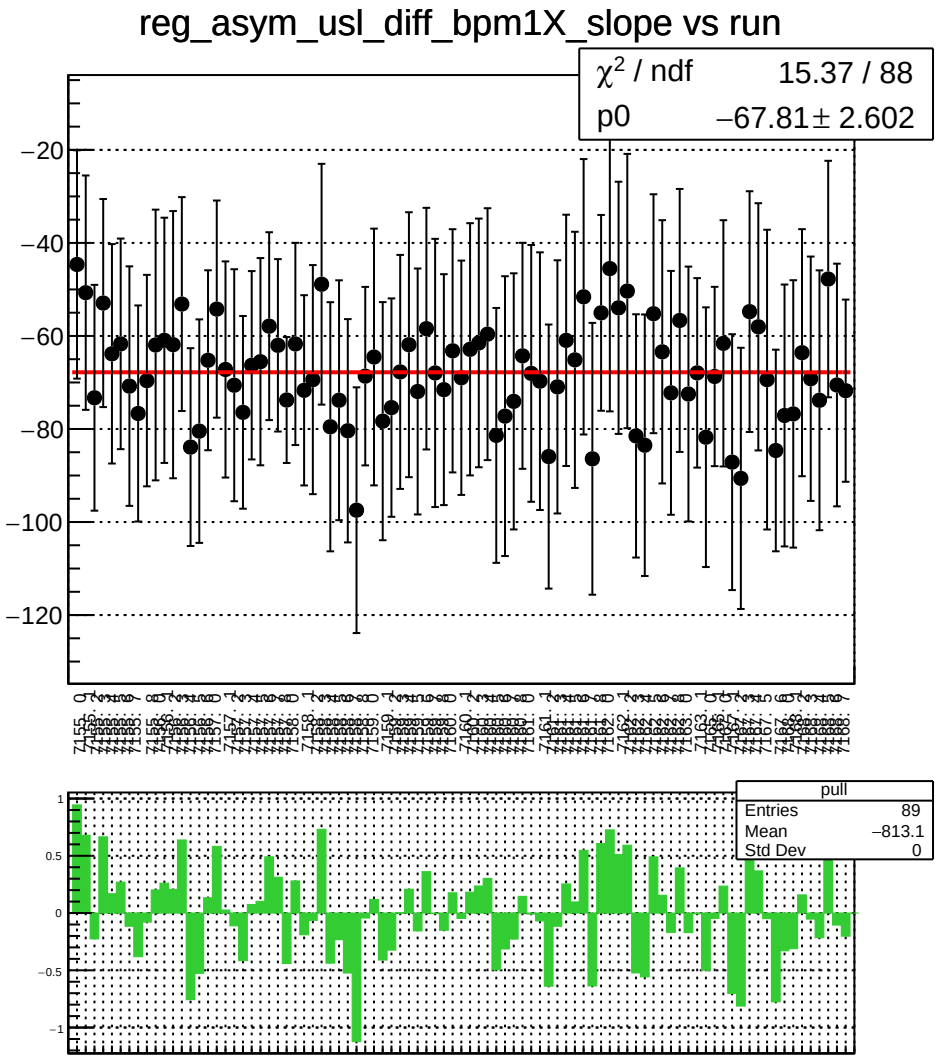

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1070 / 88
p0 −32.19 ± 0.2807
pull
Entries 89
Mean 181.9
Std Dev 0

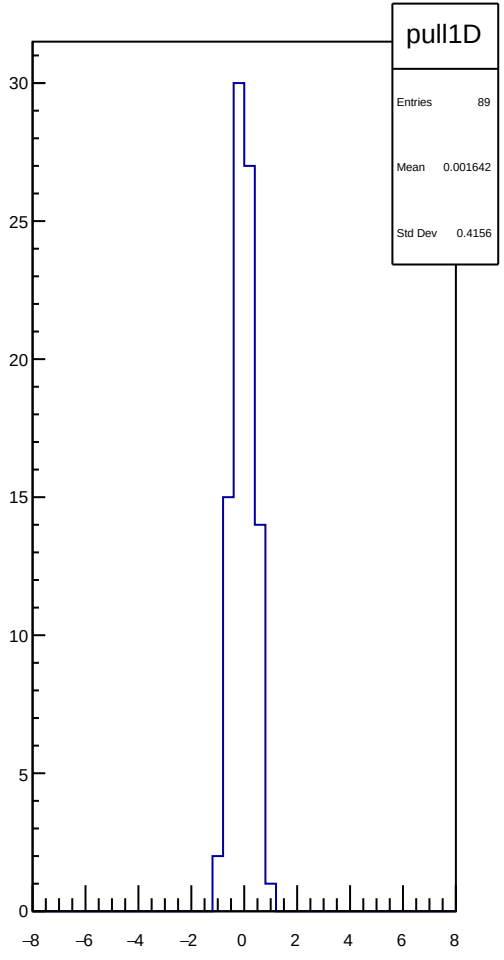

pull1D
Entries 89
Mean −0.8226
Std Dev 2.475

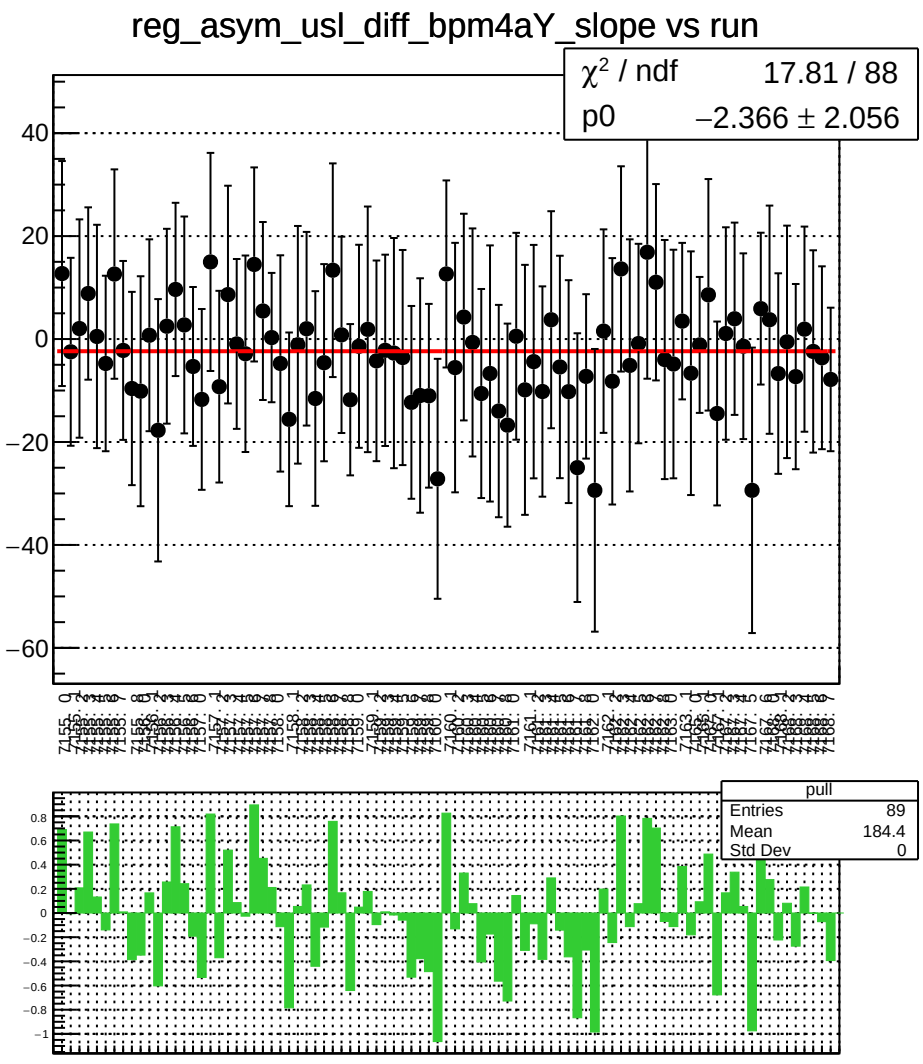

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 458.8 / 88
p0 36.34 ± 0.2544
pull
Entries 89
Mean 388.2
Std Dev 0
pull1D
Entries 89
Mean 0.2081
Std Dev 2.048

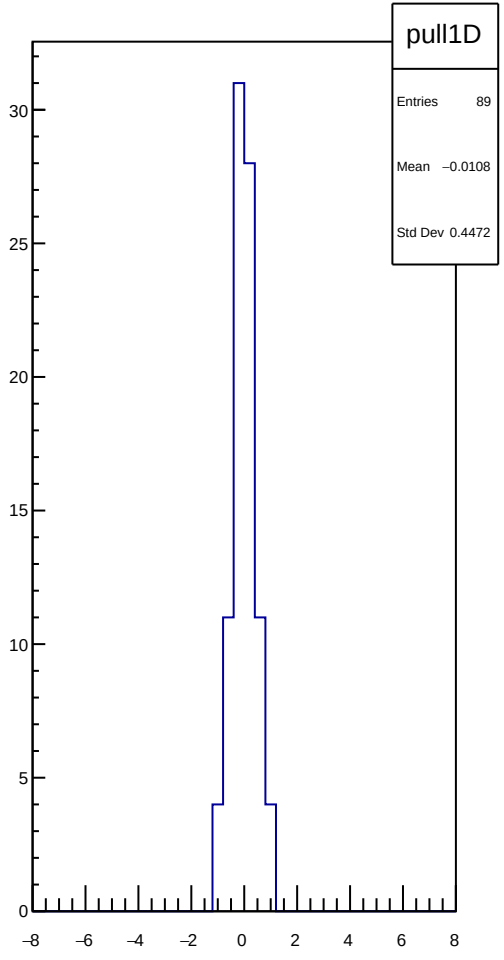

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 49.89 / 88
p0 0.04656 ± 0.009631
pull
Entries 89
Mean 871.7
Std Dev 0

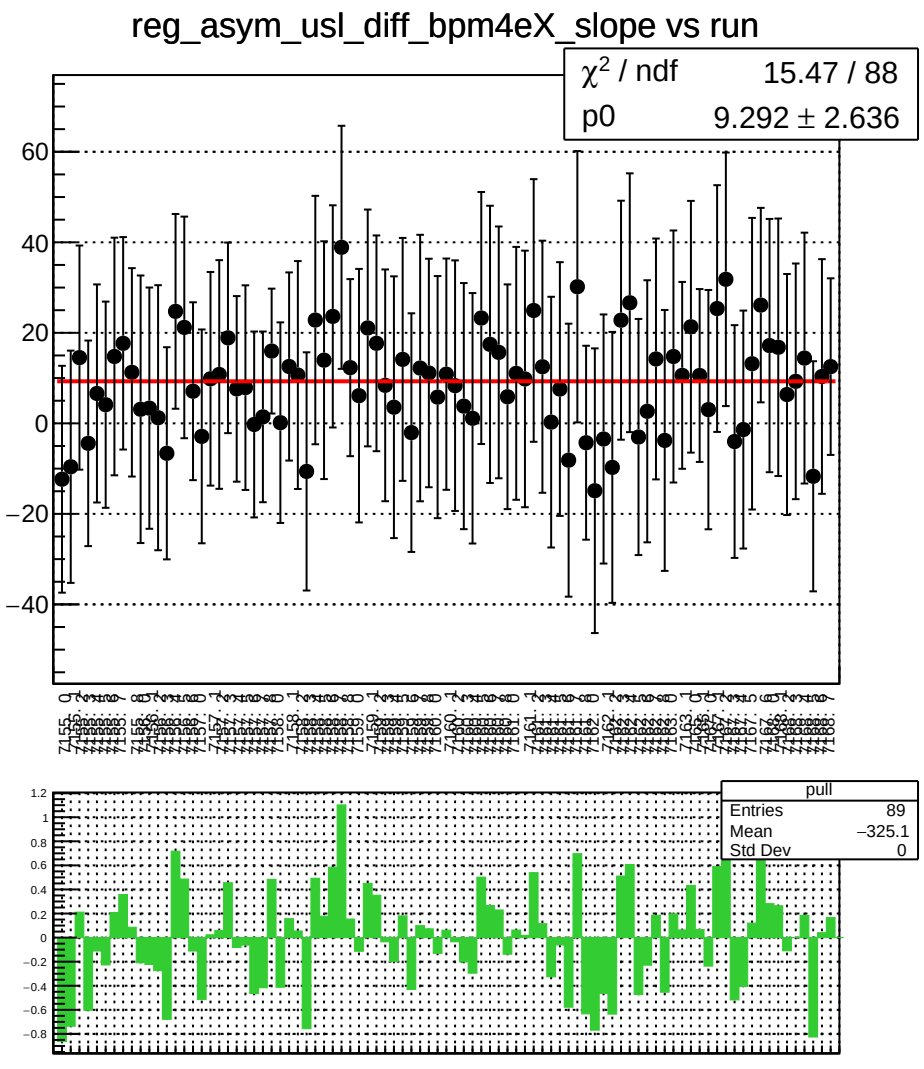

pull1D
Entries 89
Mean 0.009877
Std Dev 0.7487

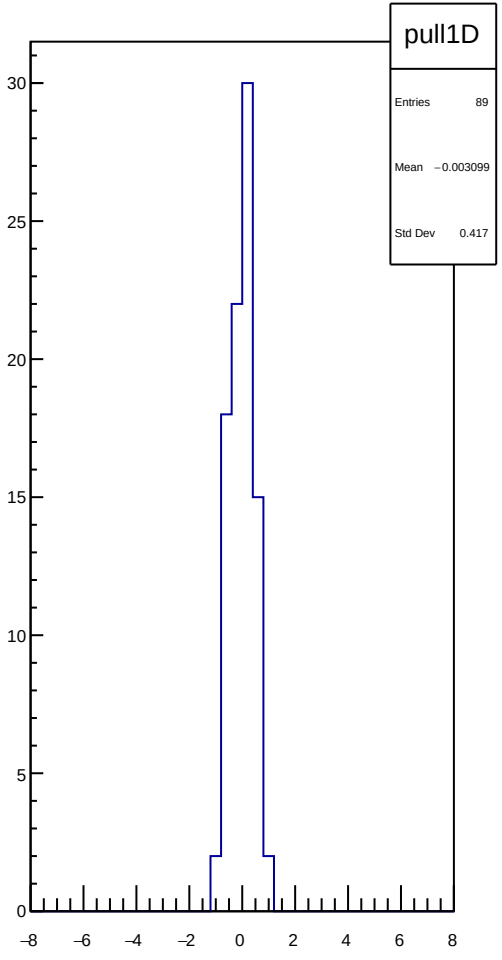

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 15.37 / 88
p0 −67.81 ± 2.602
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean −813.1
Std Dev 0
1
0.5
0
−0.5
−1

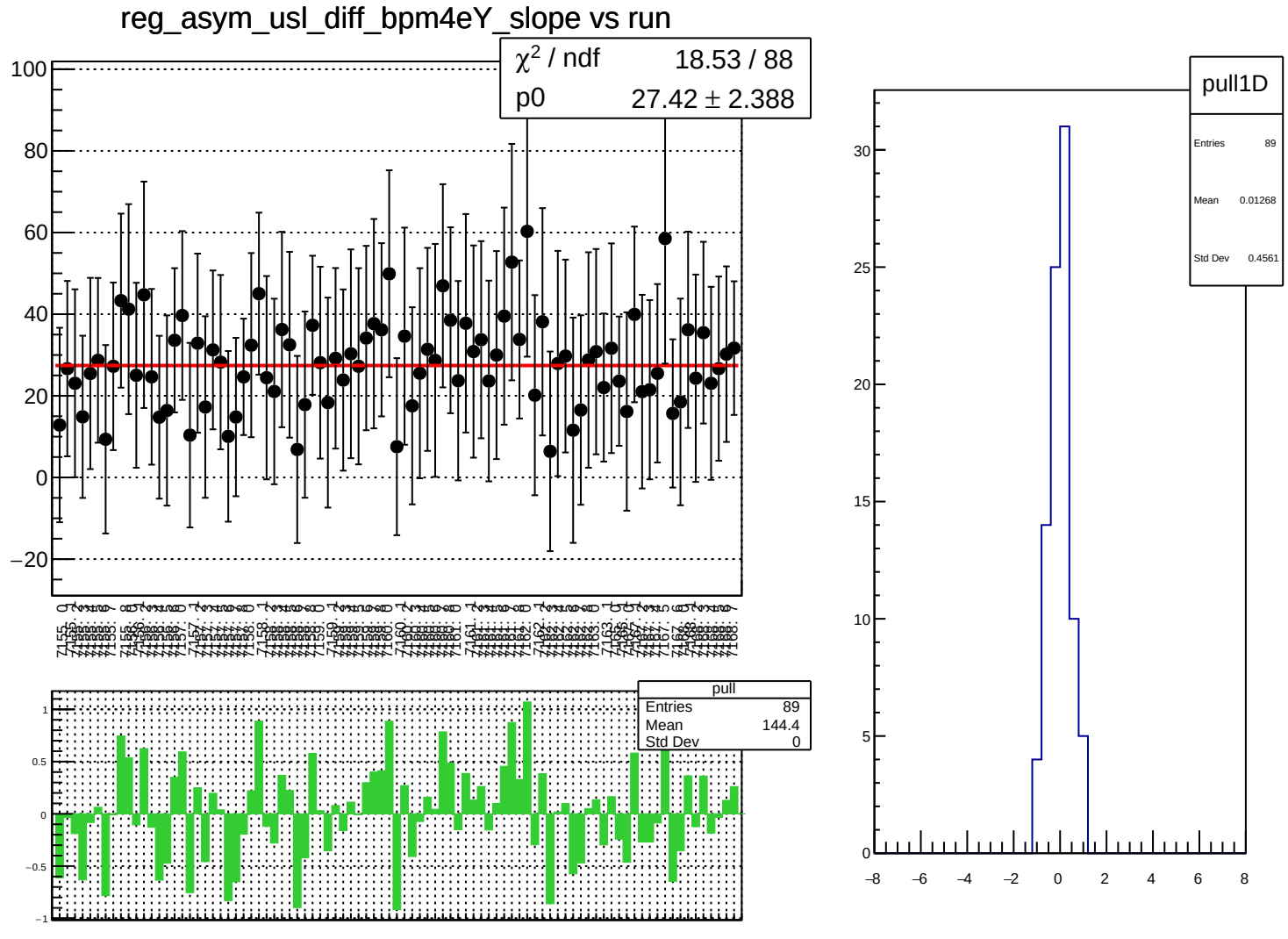

pull1D
Entries 89
Mean 0.001642
Std Dev 0.4156
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

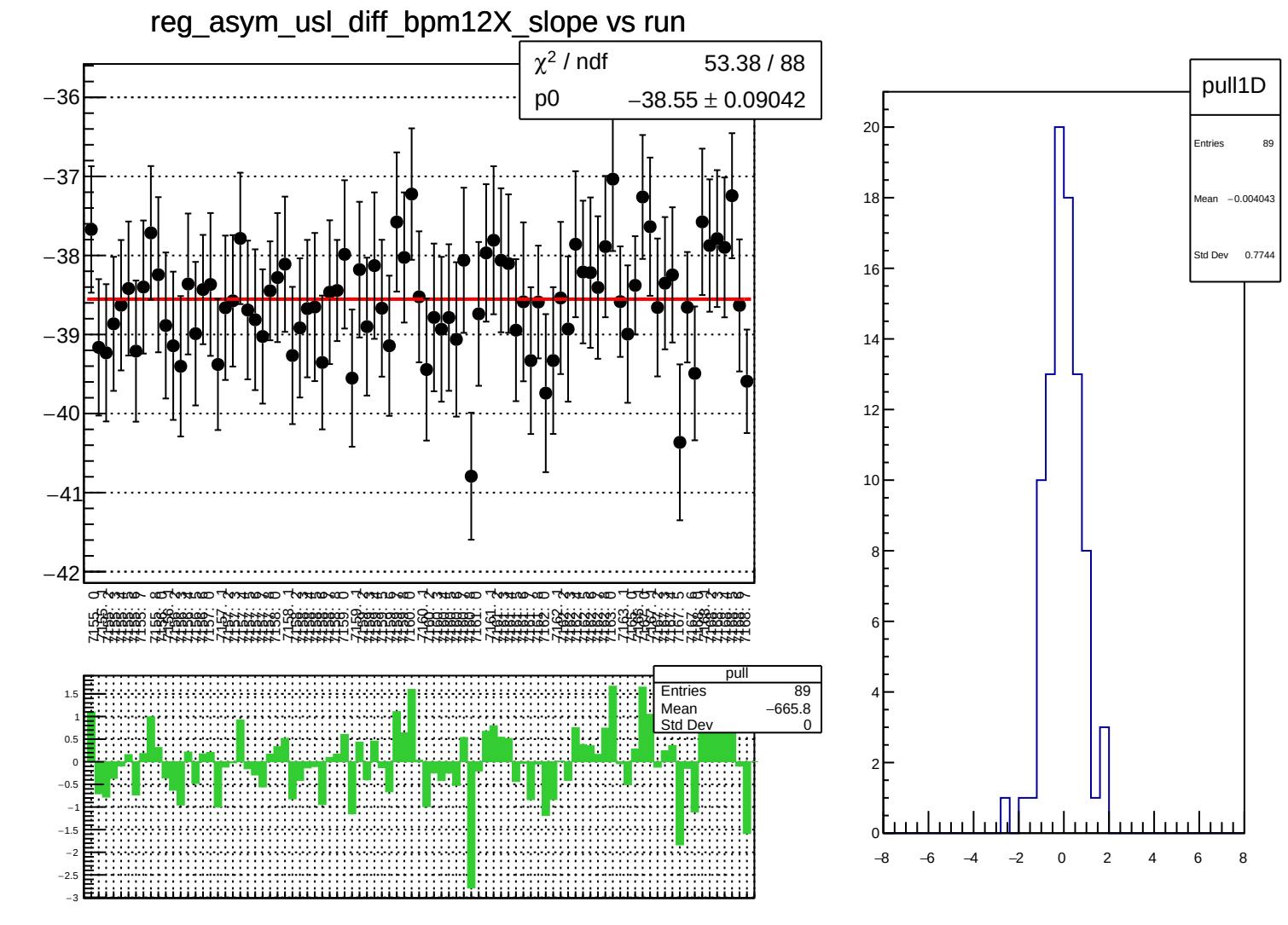

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 17.81 / 88
p0 −2.366 ± 2.056
pull
Entries 89
Mean 184.4
Std Dev 0

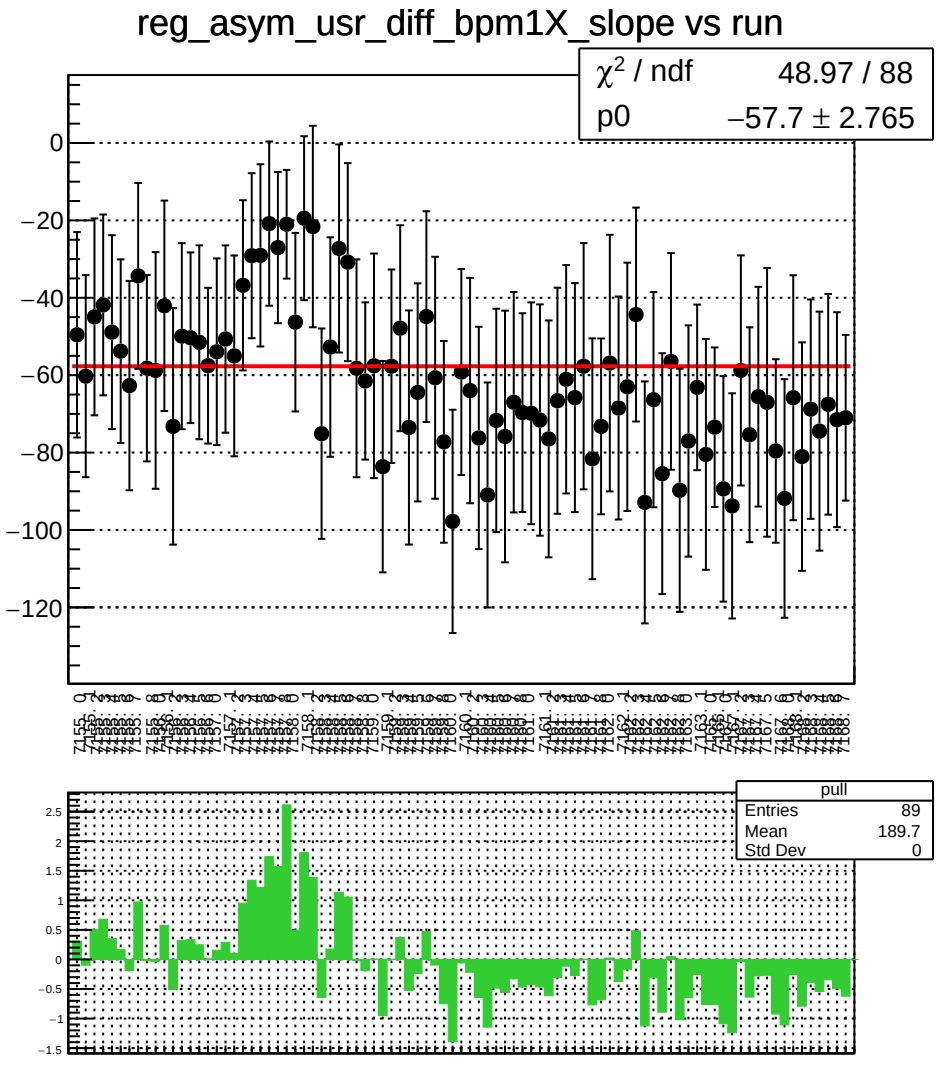

pull1D
Entries 89
Mean −0.0108
Std Dev 0.4472

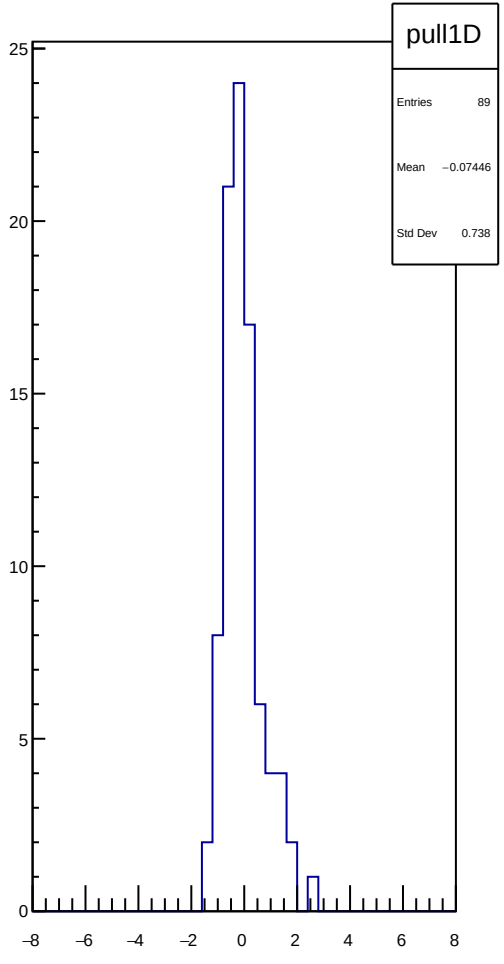

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 15.47 / 88
p0 9.292 ± 2.636
pull
Entries 89
Mean −325.1
Std Dev 0

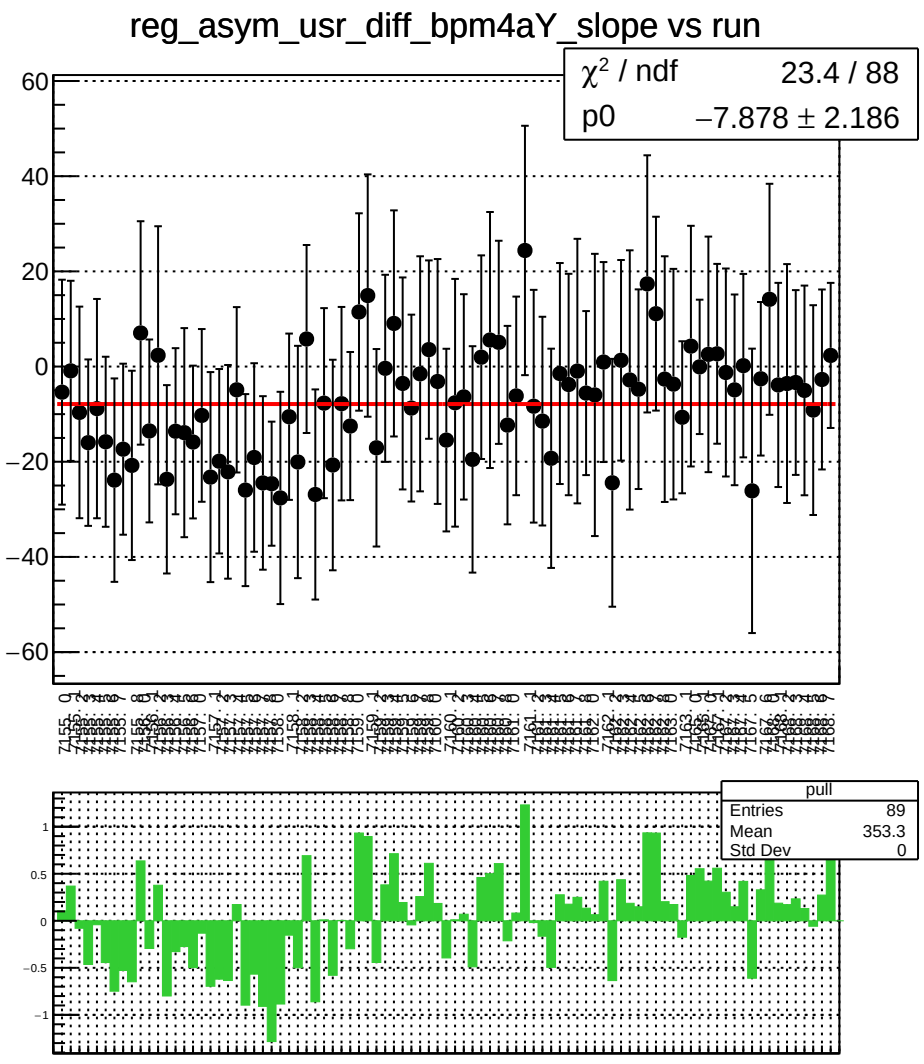

pull1D
Entries 89
Mean −0.003099
Std Dev 0.417

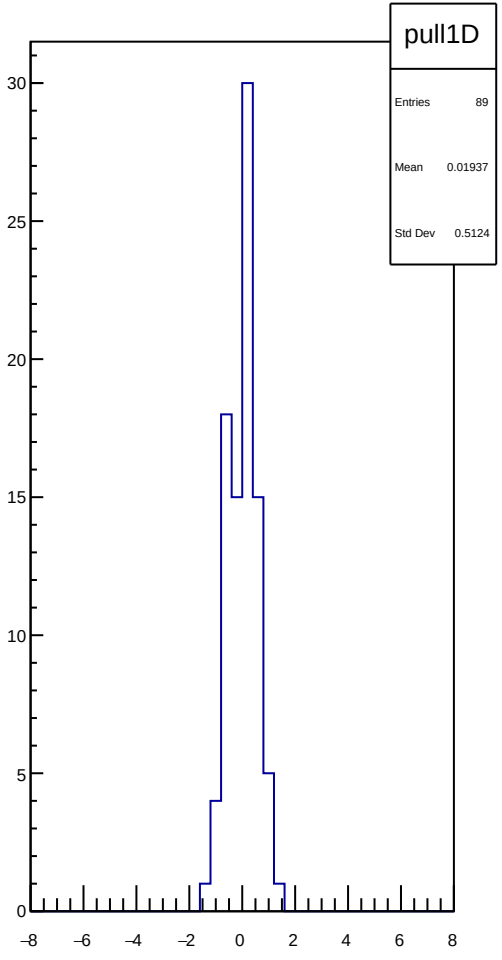

reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 18.53 / 88
p0 27.42 ± 2.388
pull
Entries 89
Mean 144.4
Std Dev 0
pull1D
Entries 89
Mean 0.01268
Std Dev 0.4561

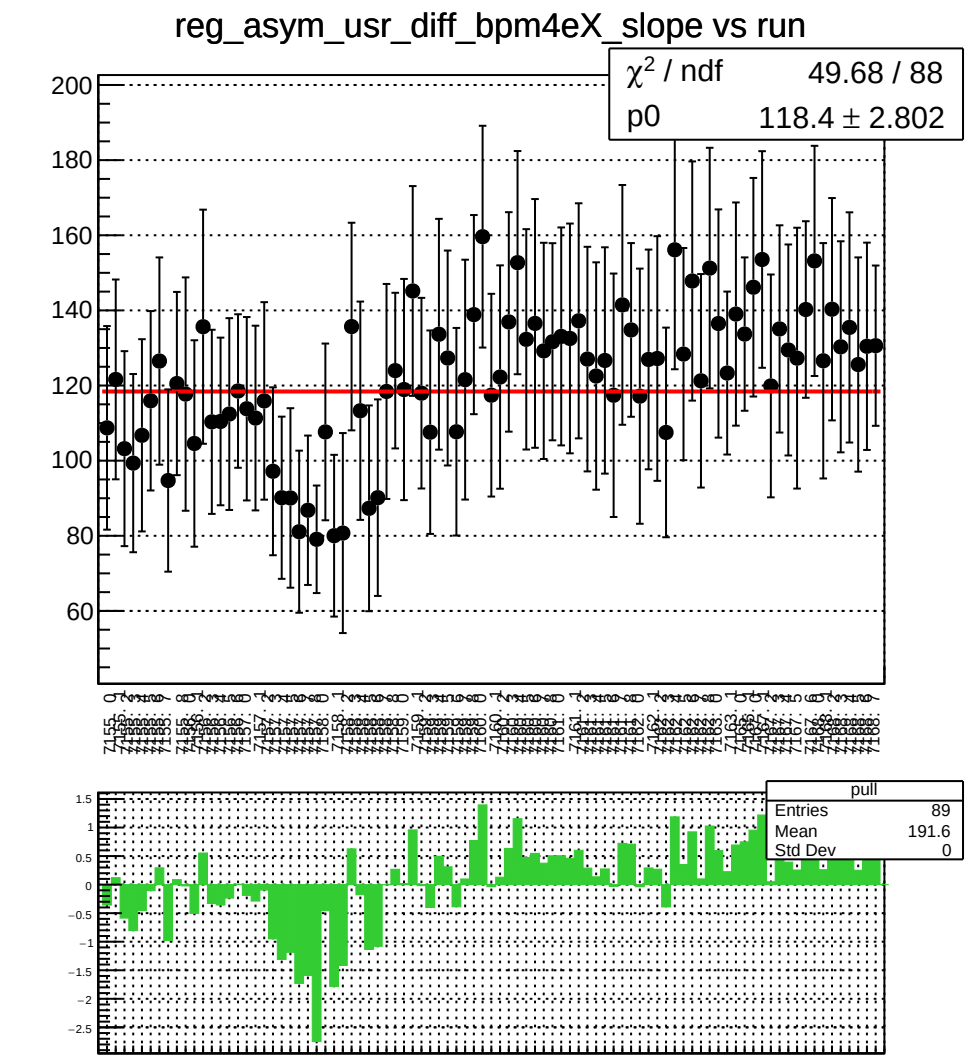

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 53.38 / 88
p0 −38.55 ± 0.09042
pull
Entries 89
Mean −665.8
Std Dev 0
pull1D
Entries 89
Mean −0.004043
Std Dev 0.7744

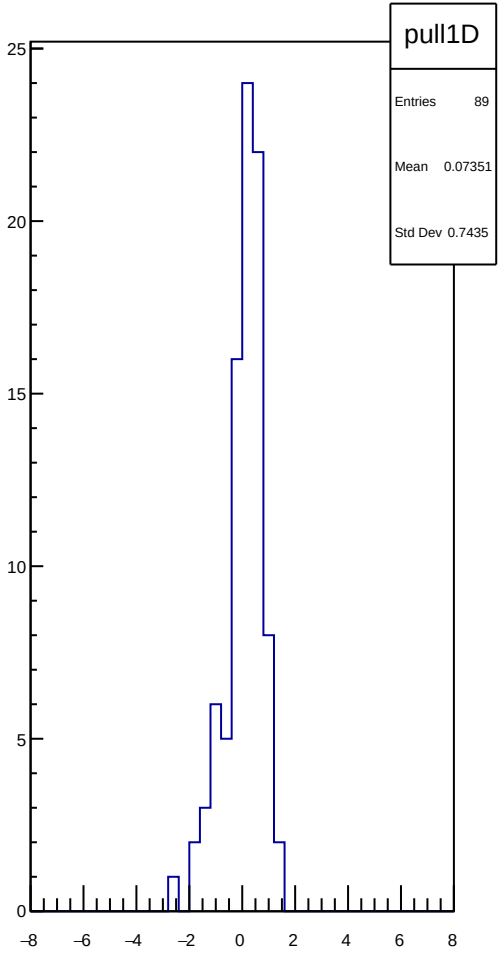

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 48.97 / 88
p0 −57.7 ± 2.765
pull
Entries 89
Mean 189.7
Std Dev 0

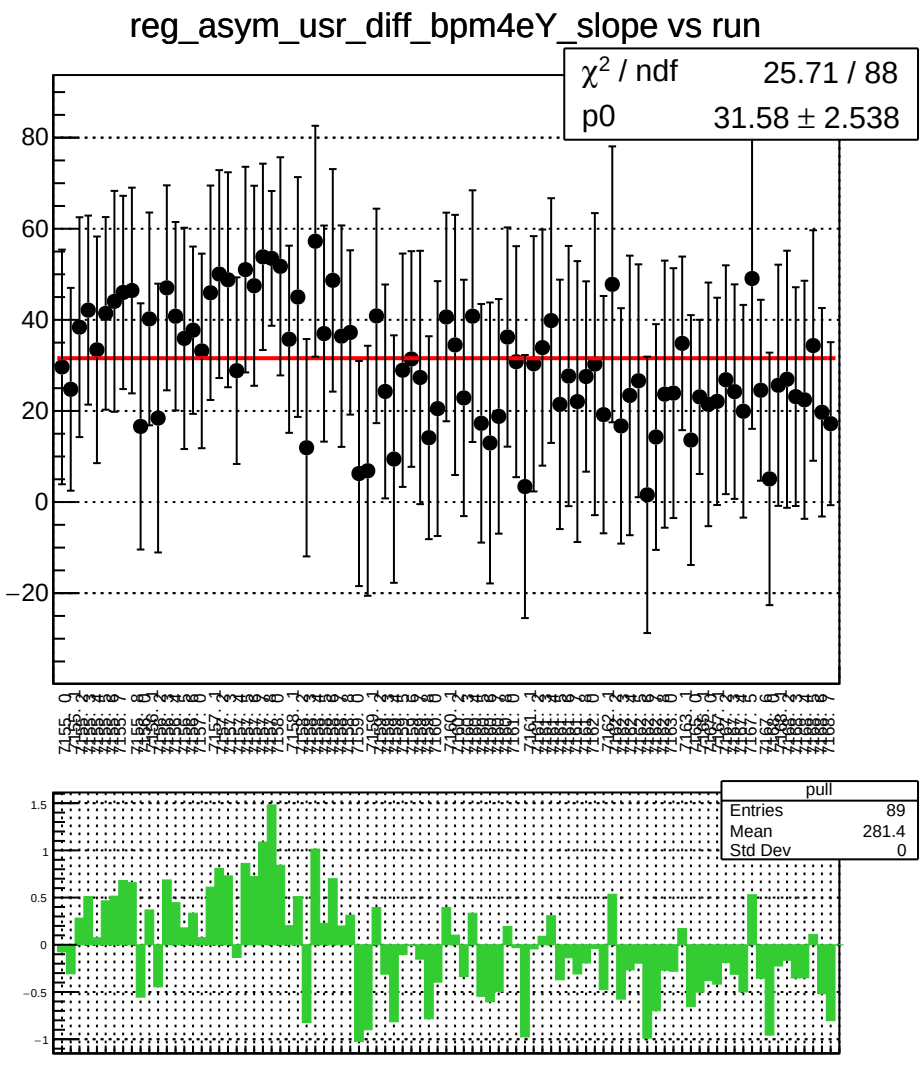

pull1D
Entries 89
Mean −0.07446
Std Dev 0.738

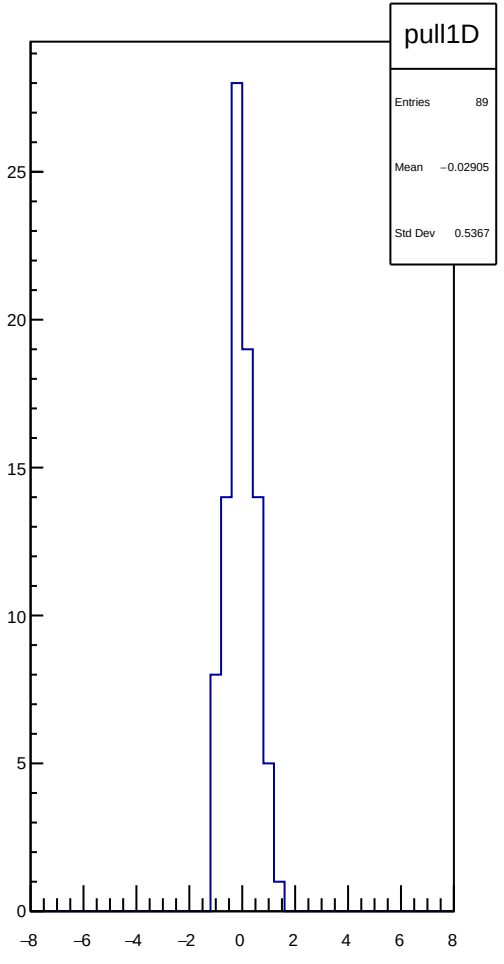

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 23.4 / 88
p0 −7.878 ± 2.186
pull
Entries 89
Mean 353.3
Std Dev 0

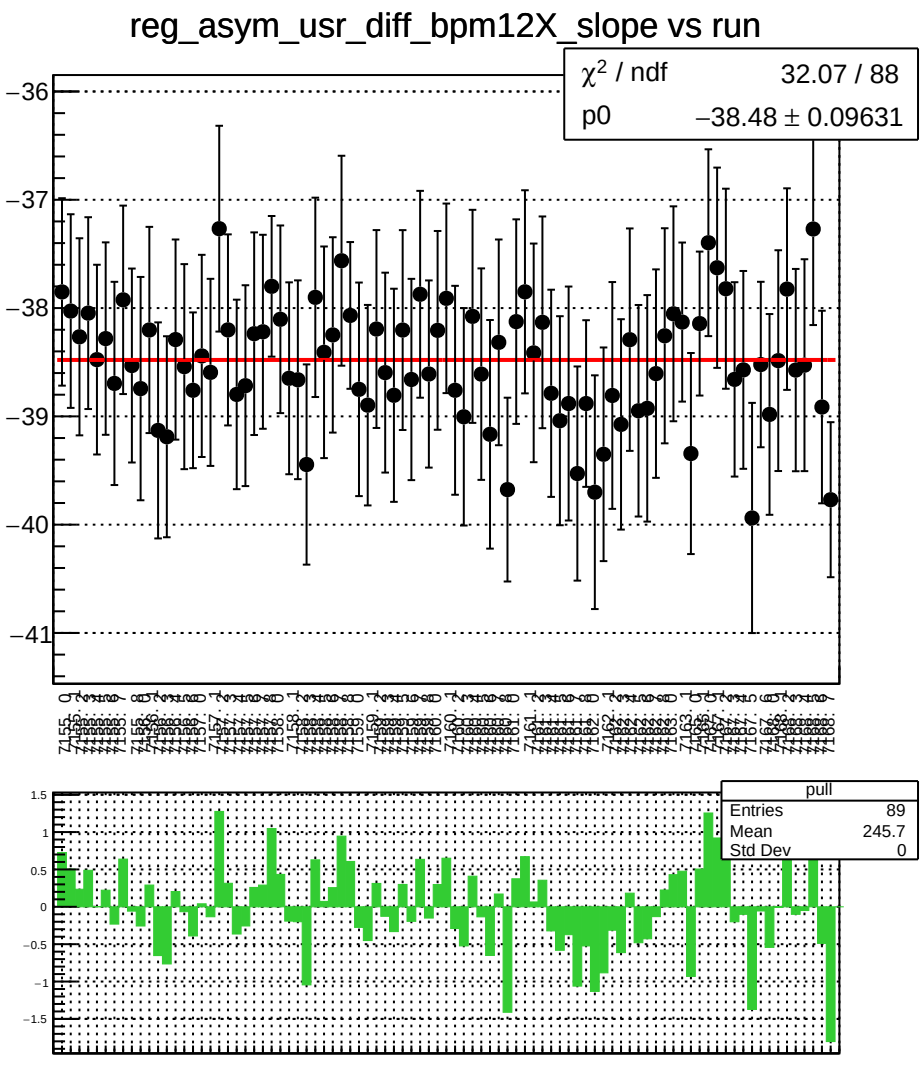

pull1D
Entries 89
Mean 0.01937
Std Dev 0.5124

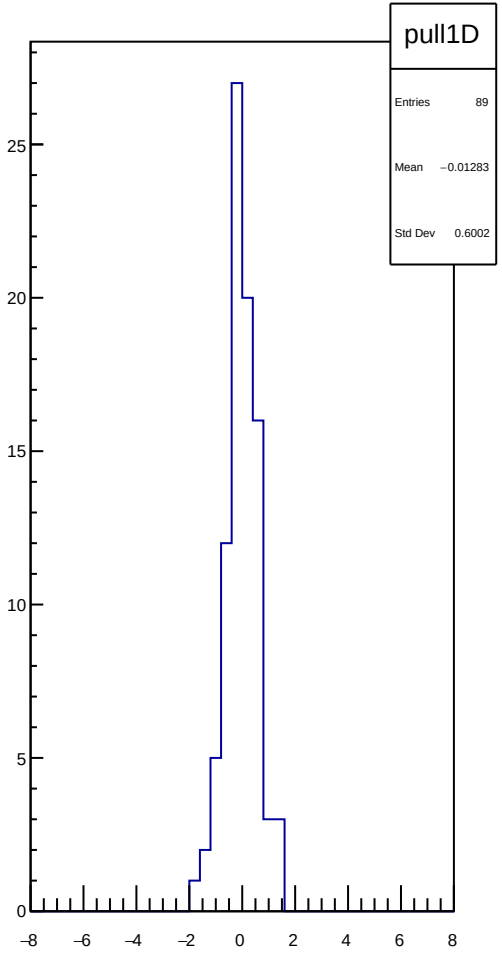

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 49.68 / 88
p0 118.4 ± 2.802
pull
Entries 89
Mean 191.6
Std Dev 0

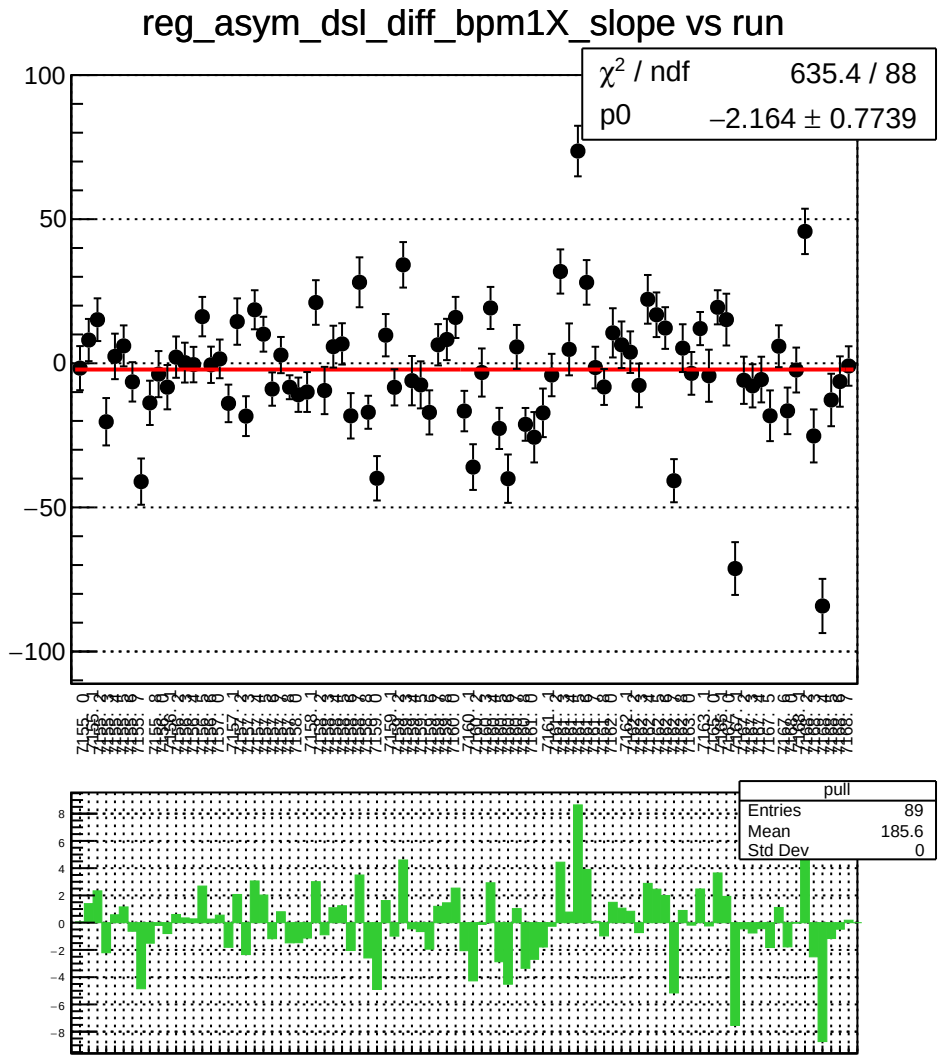

pull1D
Entries 89
Mean 0.07351
Std Dev 0.7435

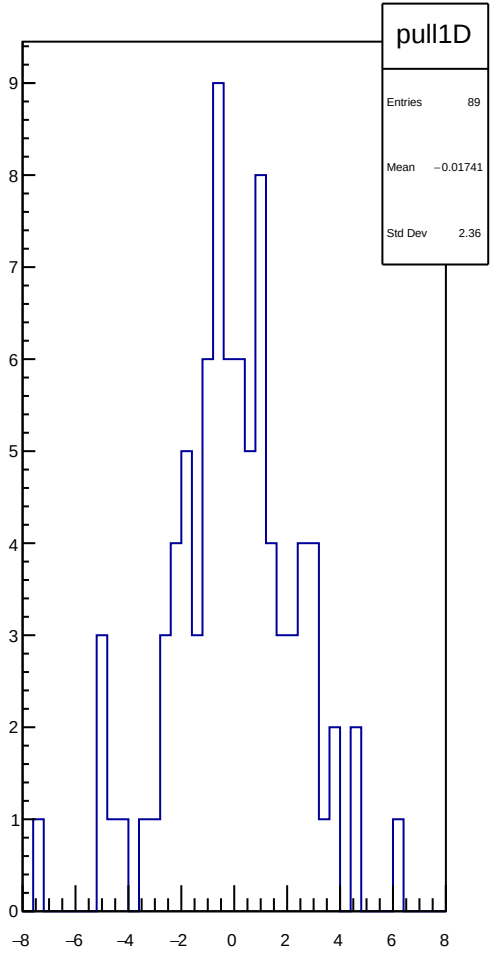

reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 25.71 / 88
p0 31.58 ± 2.538
pull
Entries 89
Mean 281.4
Std Dev 0

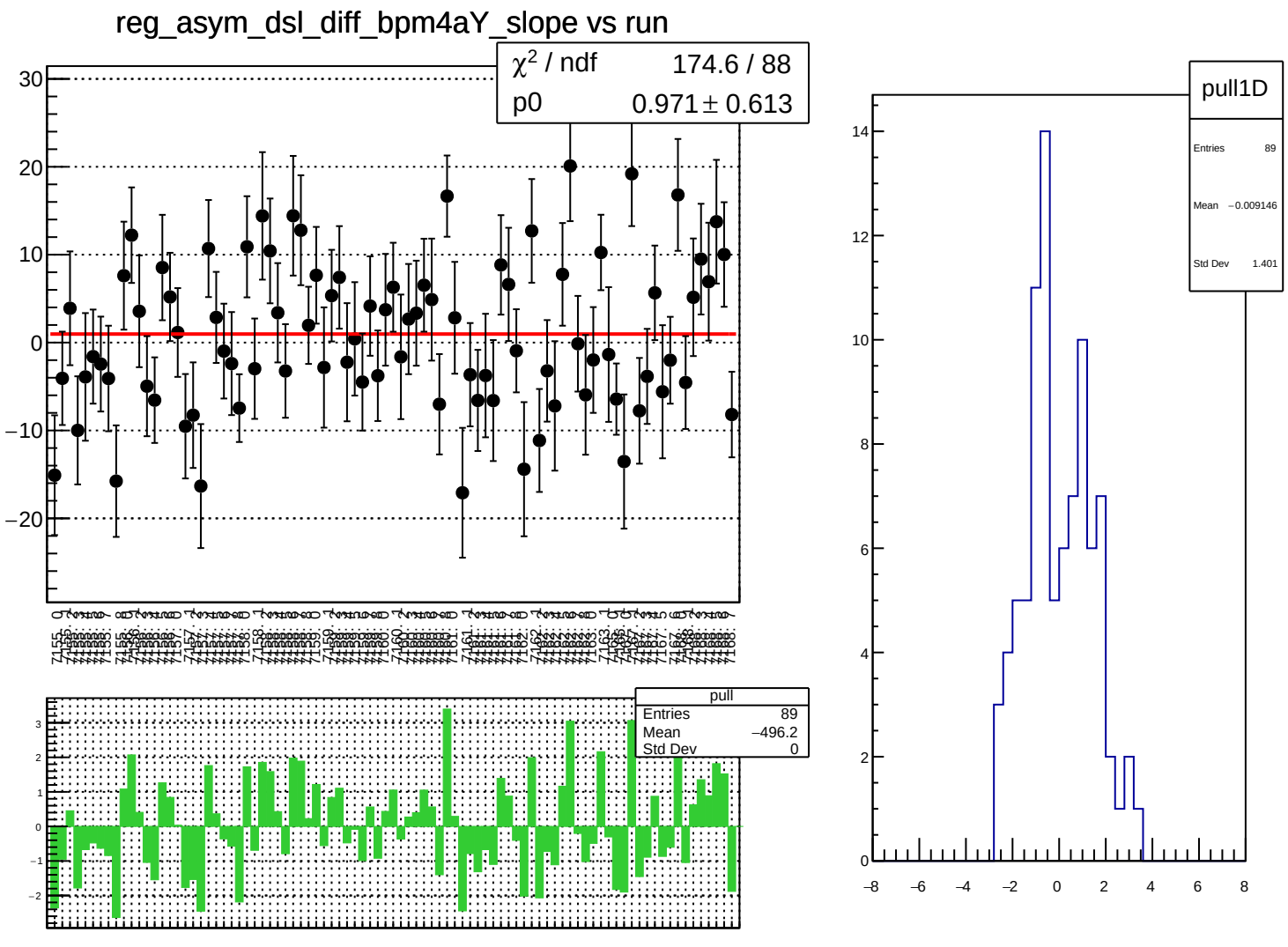

pull1D
Entries 89
Mean −0.02905
Std Dev 0.5367

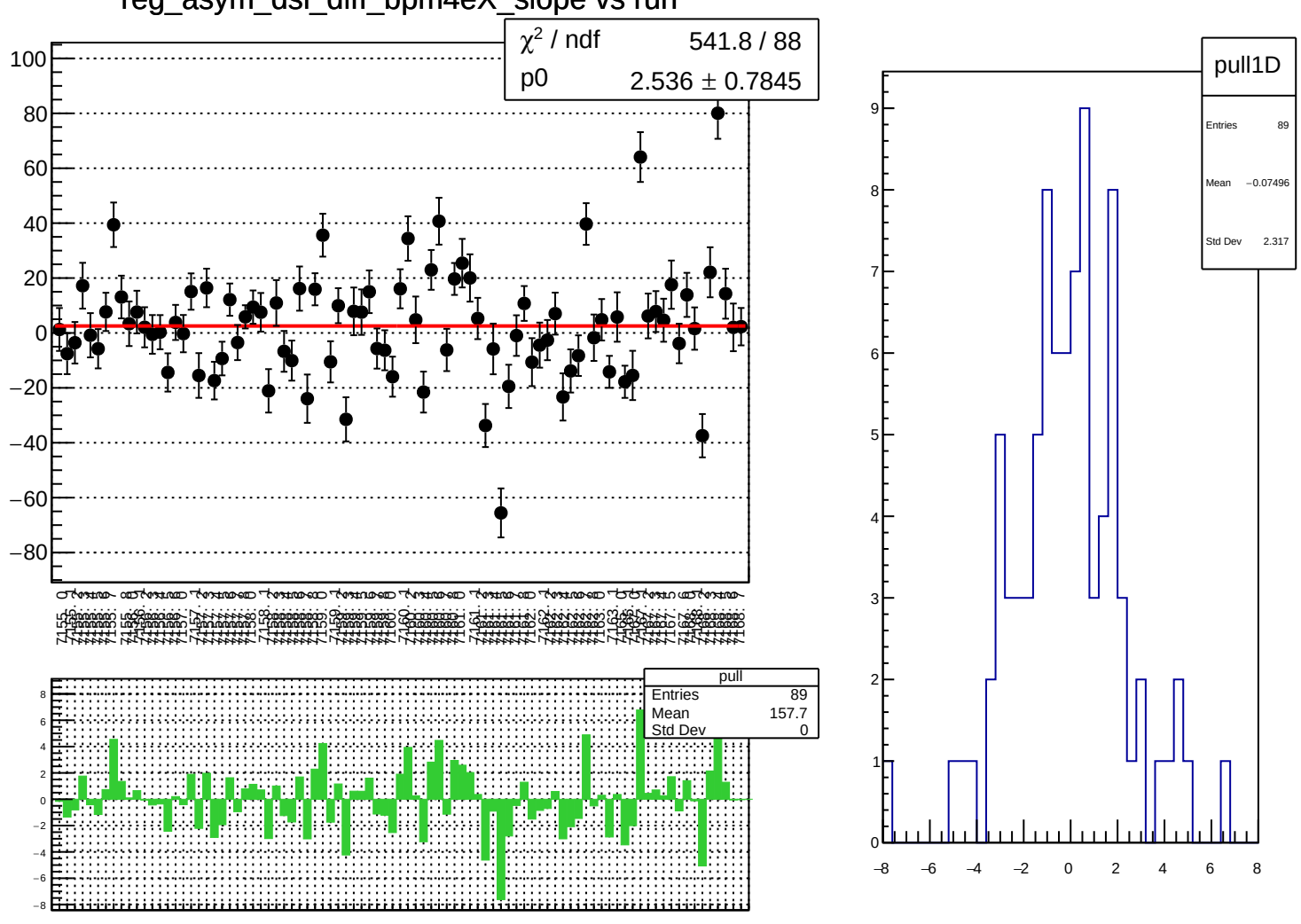

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 32.07 / 88
p0 −38.48 ± 0.09631
−36
−37
−38
−39
−40
−41
pull
Entries 89
Mean 245.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

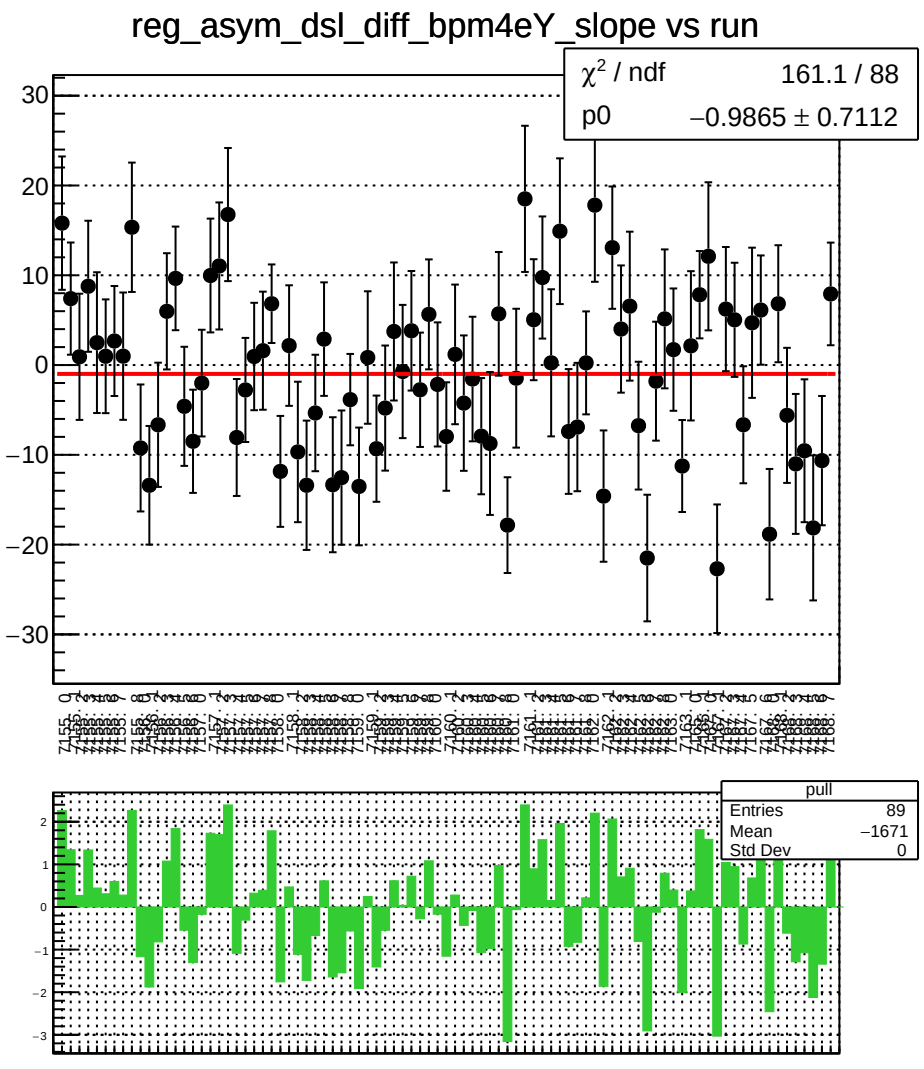

pull1D
Entries 89
Mean −0.01283
Std Dev 0.6002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

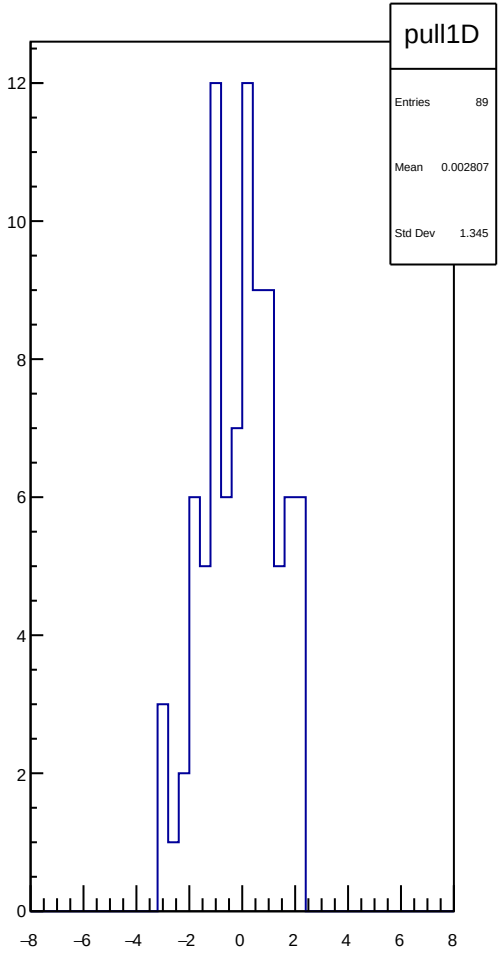

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 635.4 / 88
p0 −2.164 ± 0.7739
100
50
0
−50
−100
pull
Entries 89
Mean 185.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

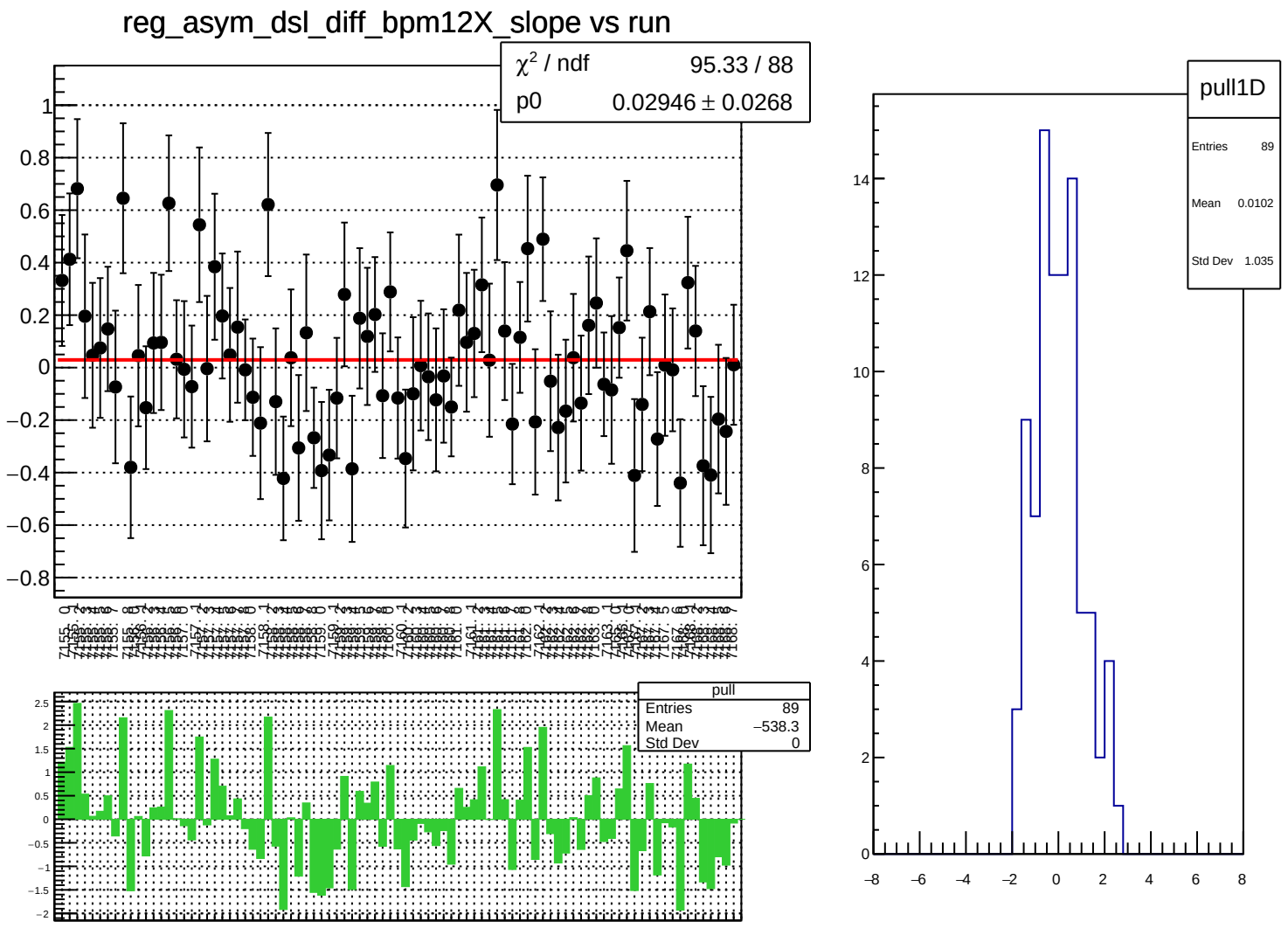

pull1D
Entries 89
Mean −0.01741
Std Dev 2.36
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

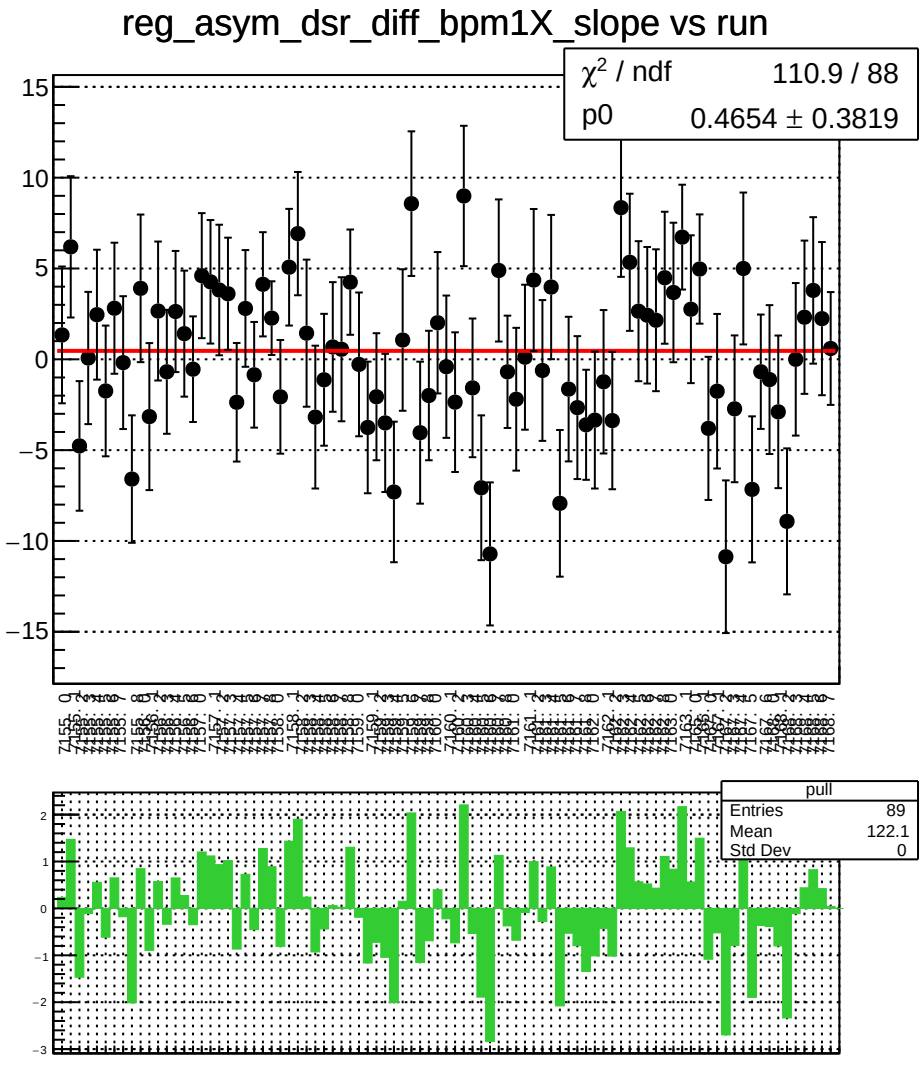

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 174.6 / 88
p0 0.971 ± 0.613
pull
Entries 89
Mean −496.2
Std Dev 0
pull1D
Entries 89
Mean −0.009146
Std Dev 1.401

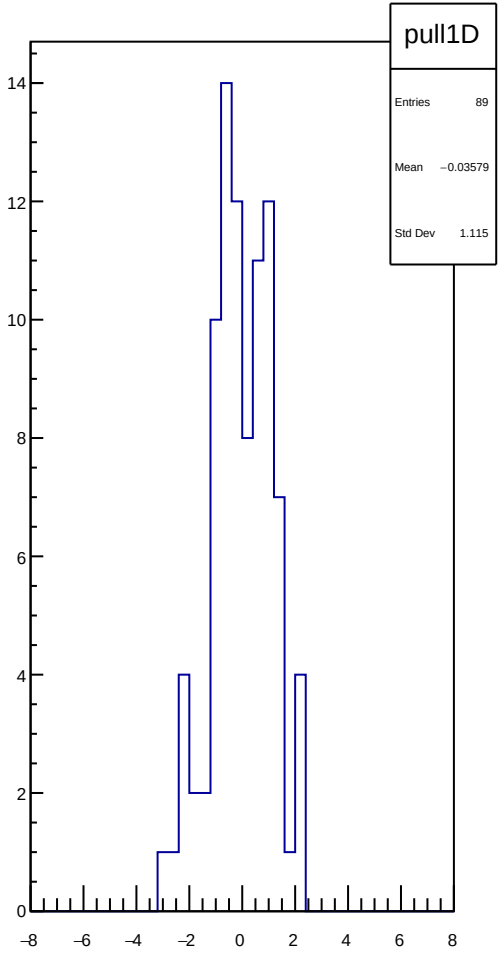

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 541.8 / 88
p0 2.536 ± 0.7845
pull
Entries 89
Mean 157.7
Std Dev 0
pull1D
Entries 89
Mean −0.07496
Std Dev 2.317

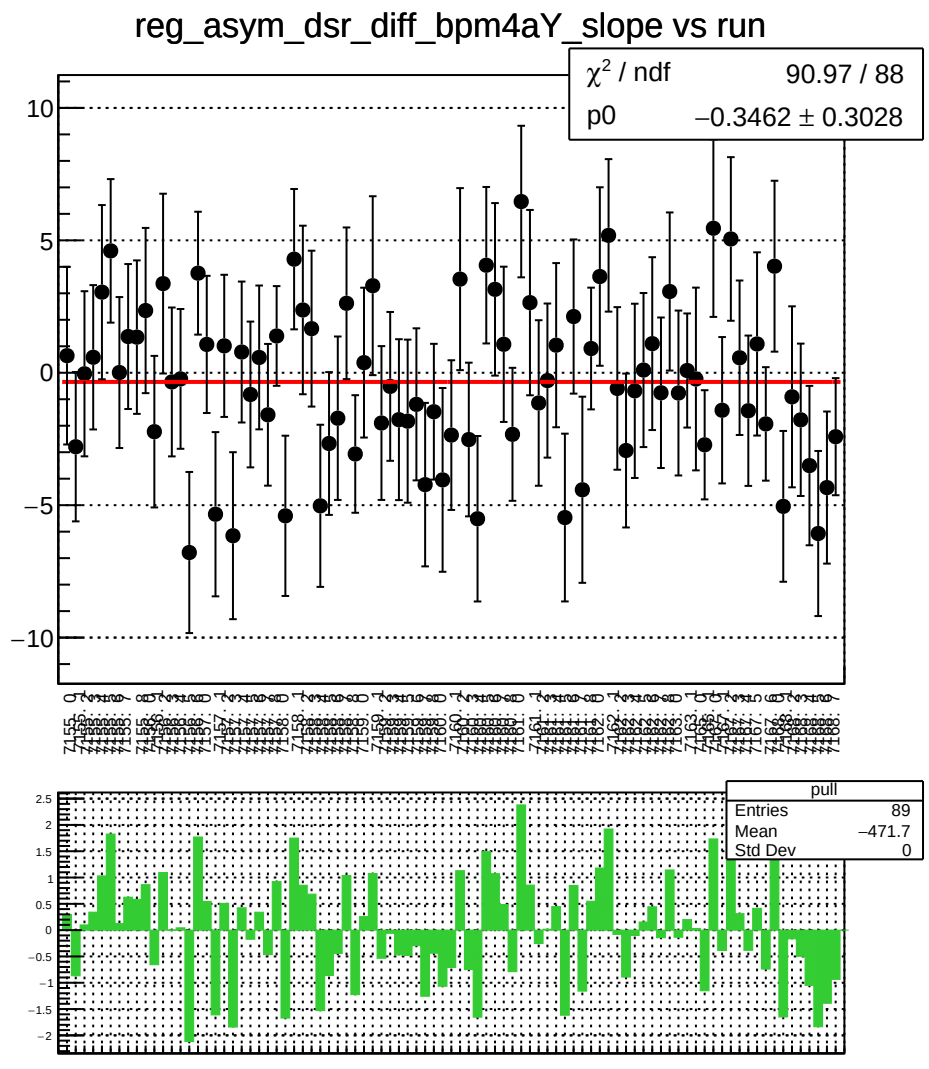

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 161.1 / 88
p0 −0.9865 ± 0.7112
pull
Entries 89
Mean −1671
Std Dev 0

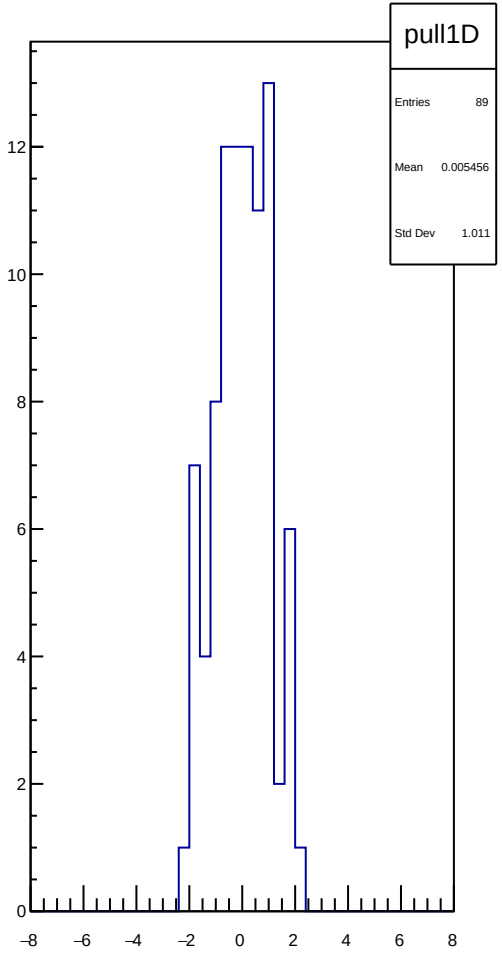

pull1D
Entries 89
Mean 0.002807
Std Dev 1.345

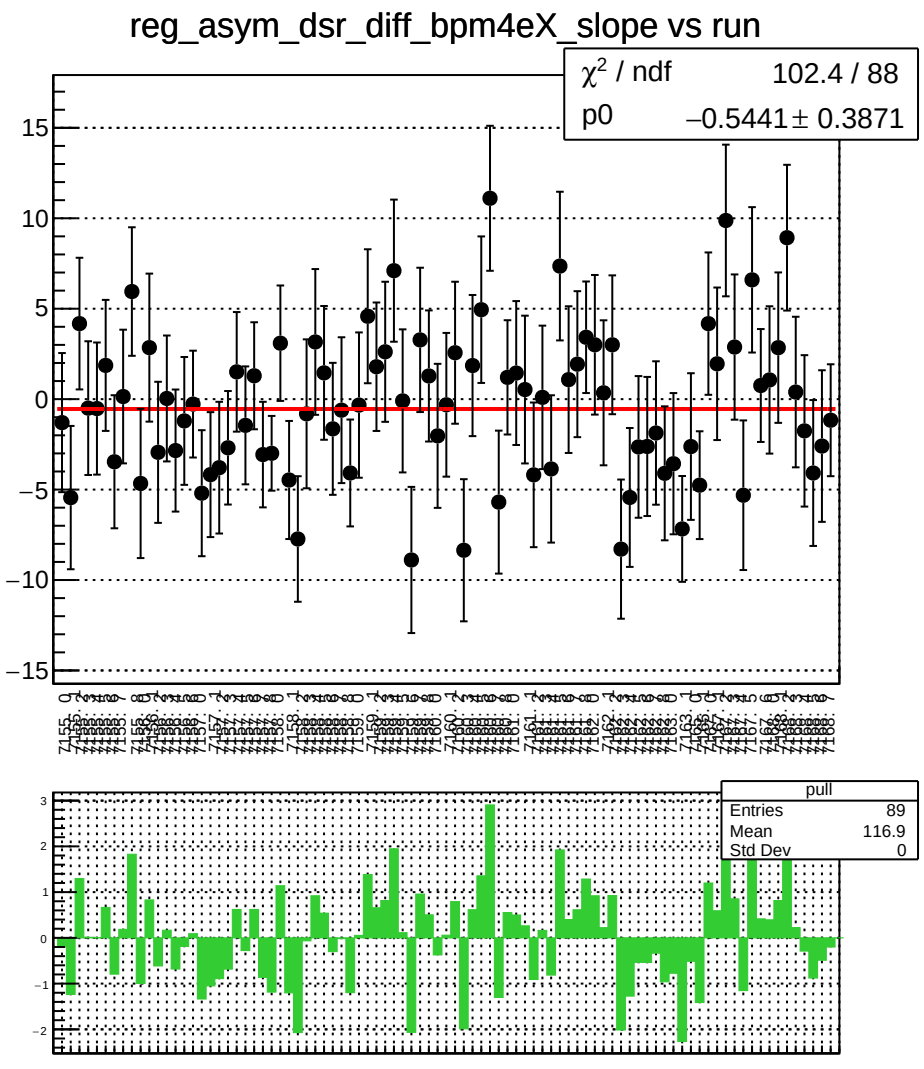

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 95.33 / 88
p0 0.02946 ± 0.0268
pull
Entries 89
Mean −538.3
Std Dev 0
pull1D
Entries 89
Mean 0.0102
Std Dev 1.035

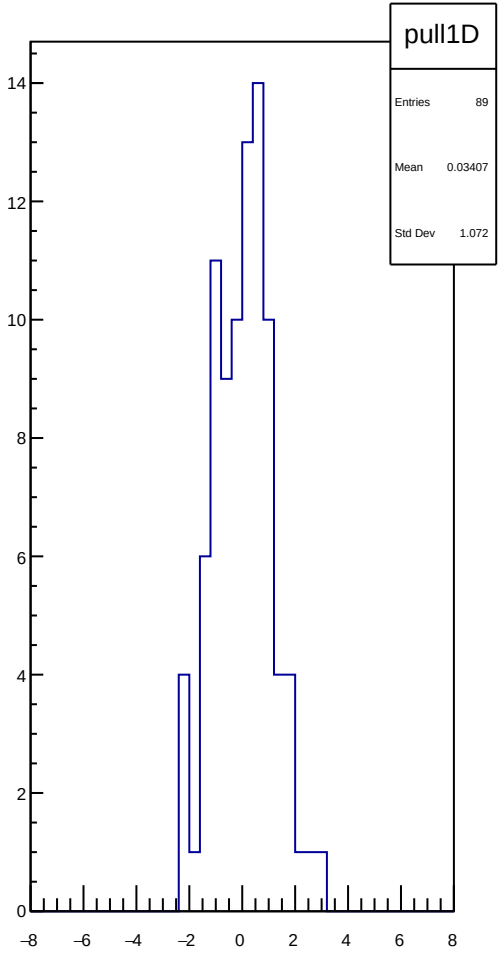

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 110.9 / 88
p0 0.4654 ± 0.3819
pull
Entries 89
Mean 122.1
Std Dev 0

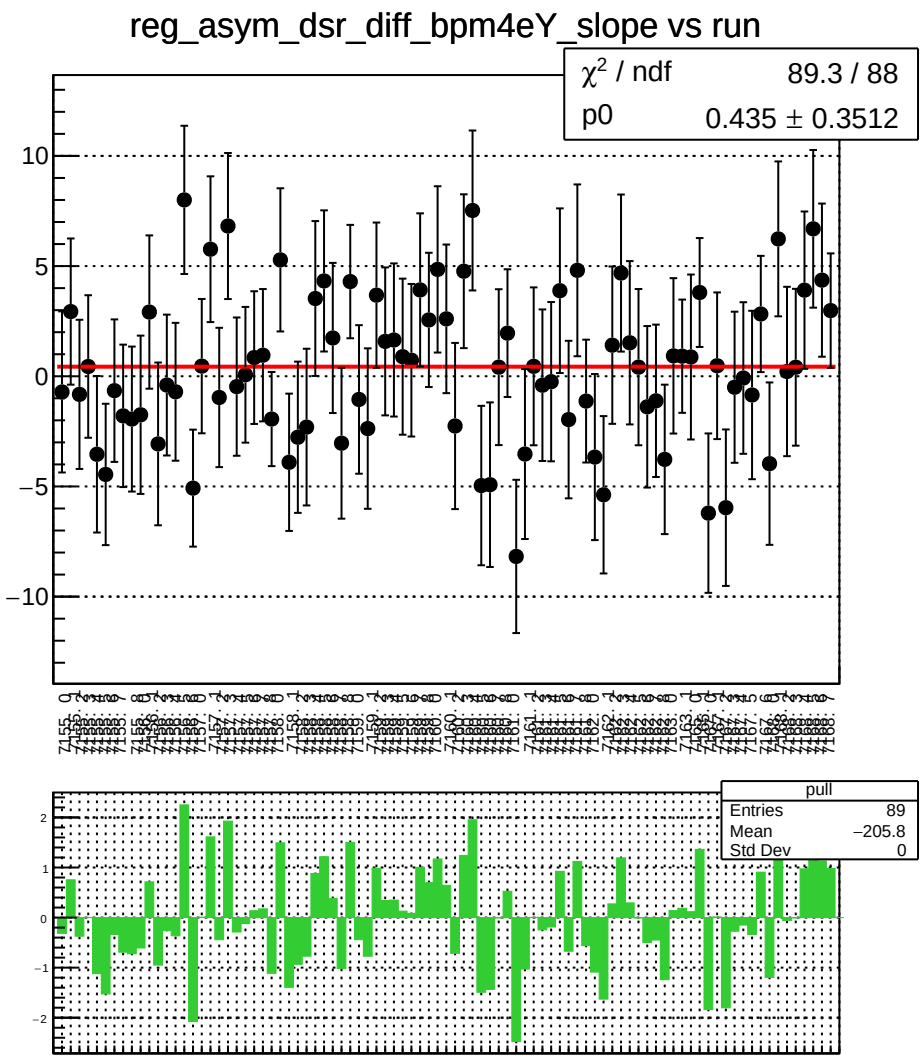

pull1D
Entries 89
Mean −0.03579
Std Dev 1.115

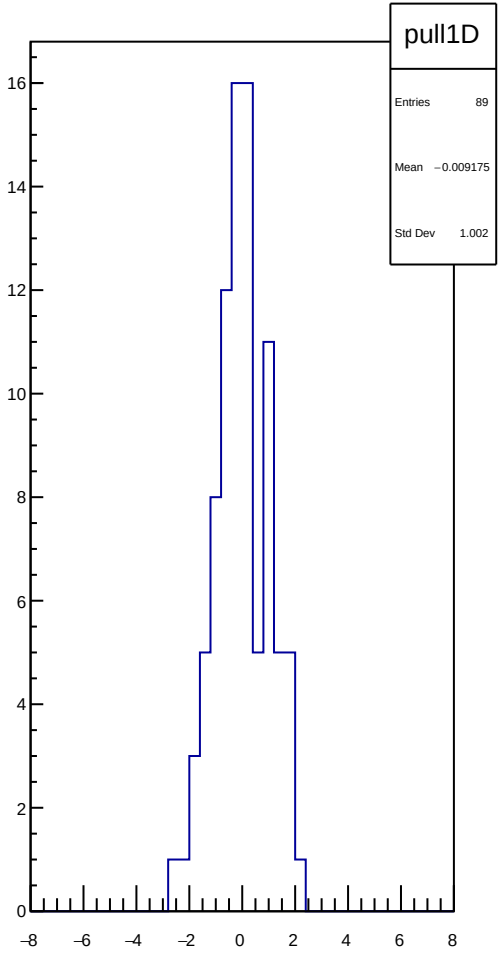

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 90.97 / 88
p0 −0.3462 ± 0.3028
pull
Entries 89
Mean −471.7
Std Dev 0

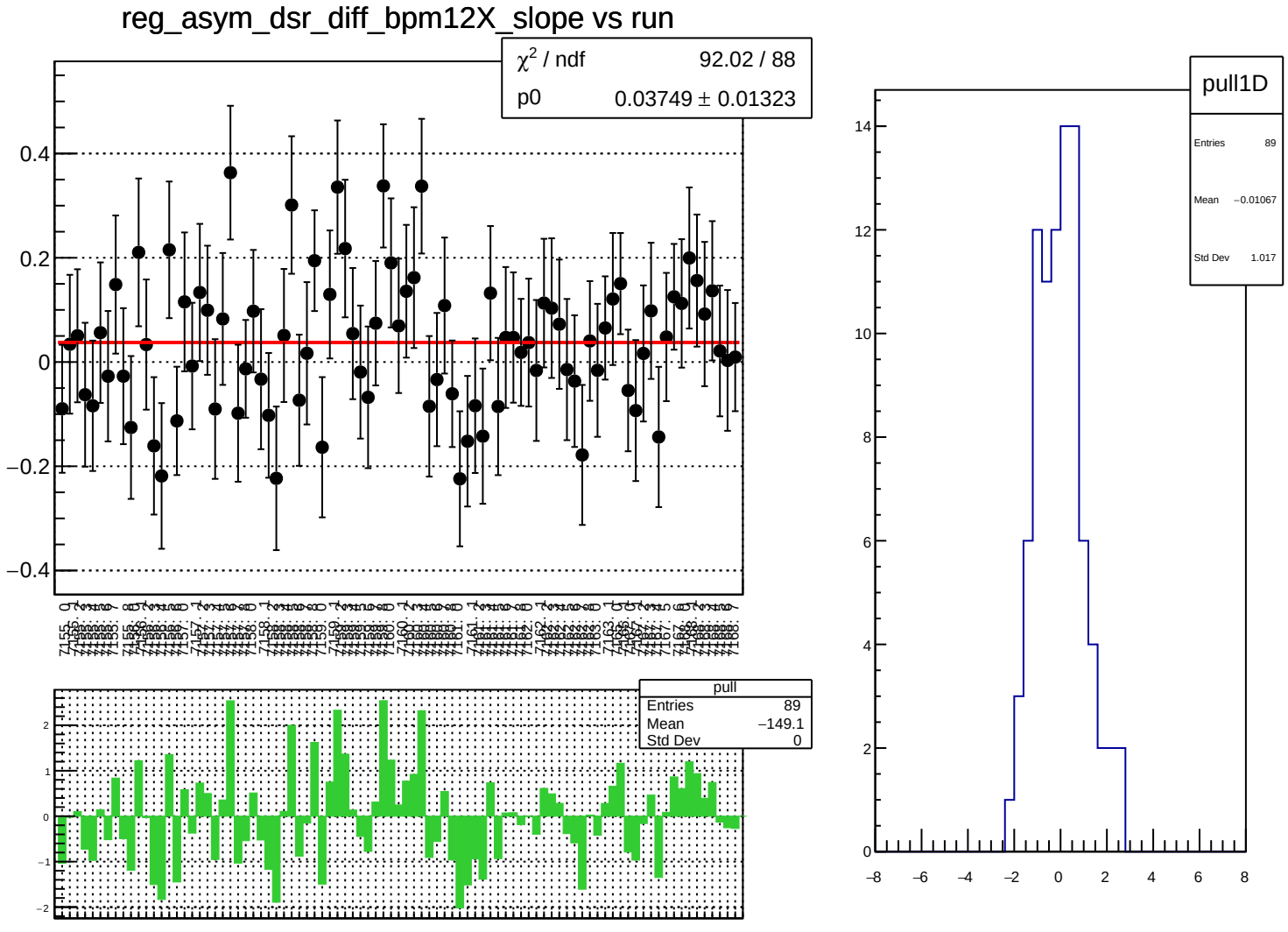

pull1D
Entries 89
Mean 0.005456
Std Dev 1.011

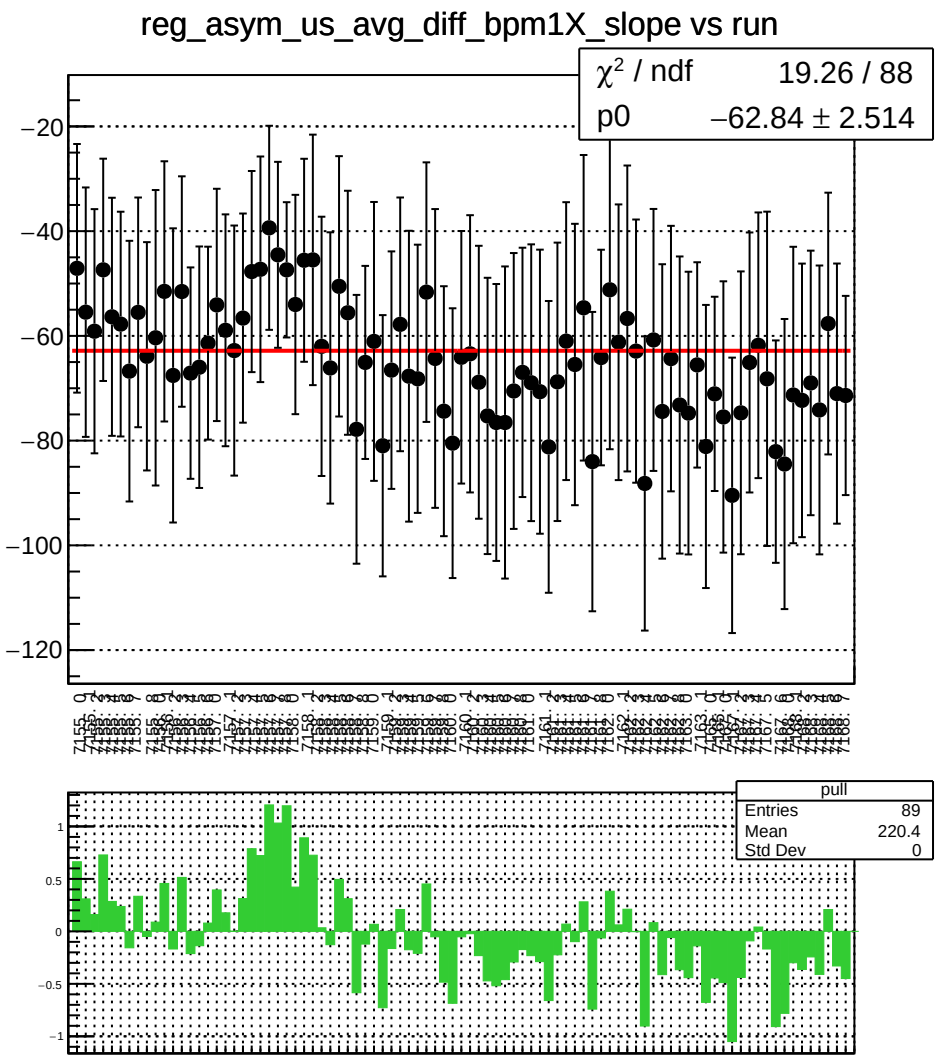

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 102.4 / 88
p0 −0.5441 ± 0.3871
pull
Entries 89
Mean 116.9
Std Dev 0

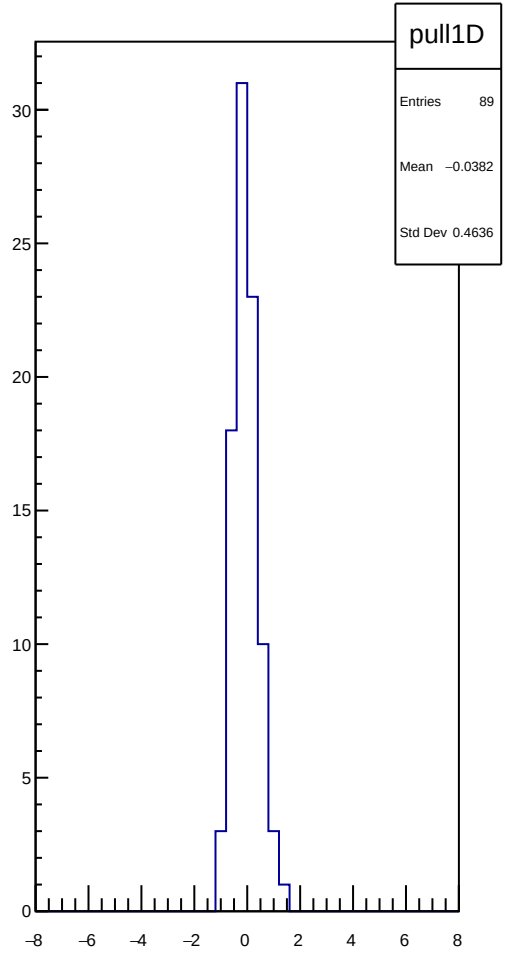

pull1D
Entries 89
Mean 0.03407
Std Dev 1.072

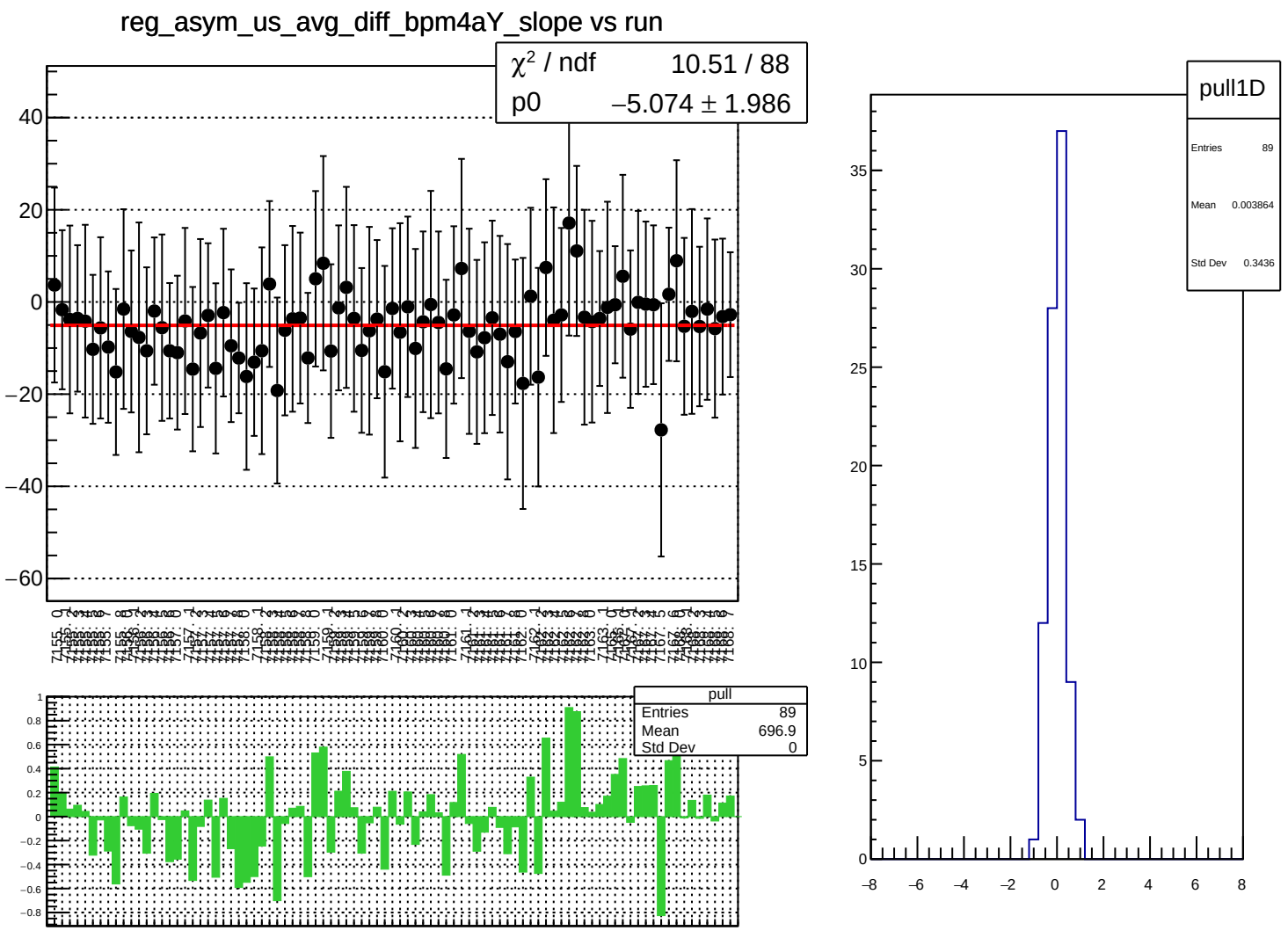

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 89.3 / 88
p0 0.435 ± 0.3512
pull
Entries 89
Mean −205.8
Std Dev 0

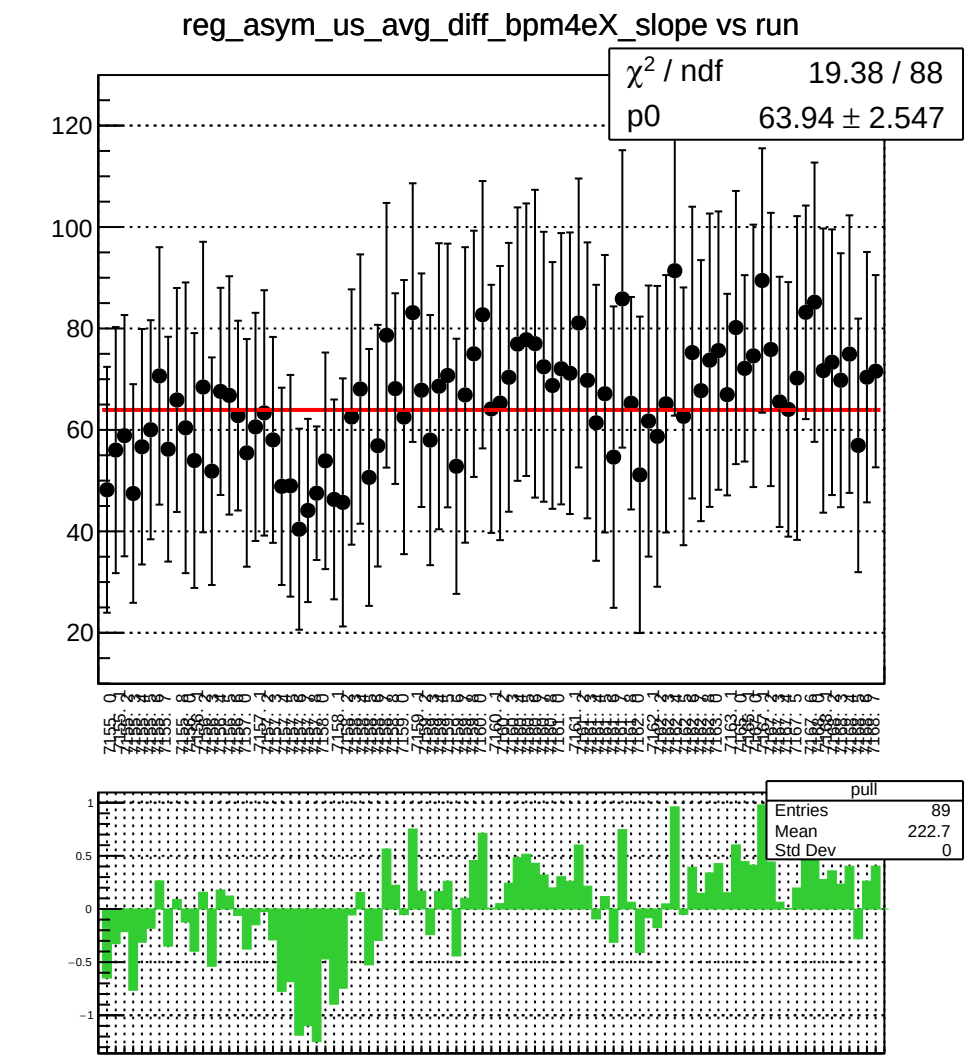

pull1D
Entries 89
Mean −0.009175
Std Dev 1.002

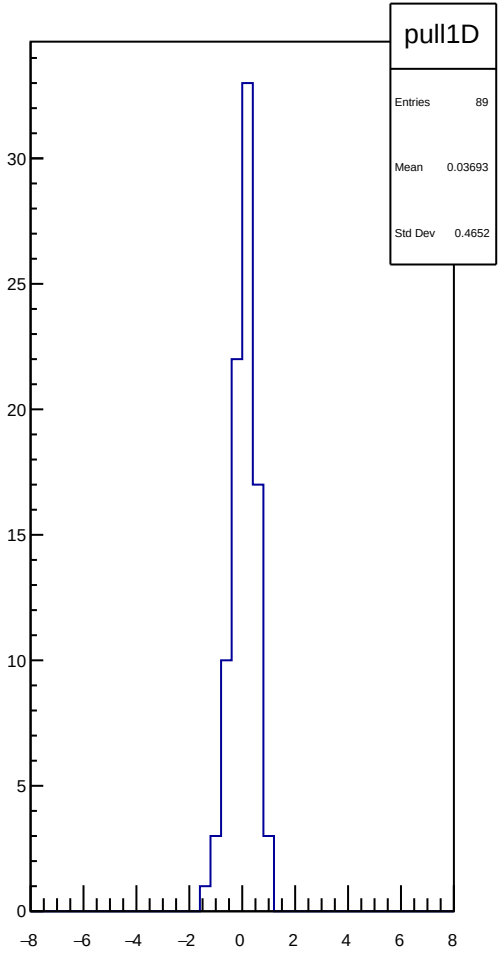

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 92.02 / 88
p0 0.03749 ± 0.01323
pull
Entries 89
Mean −149.1
Std Dev 0
pull1D
Entries 89
Mean −0.01067
Std Dev 1.017

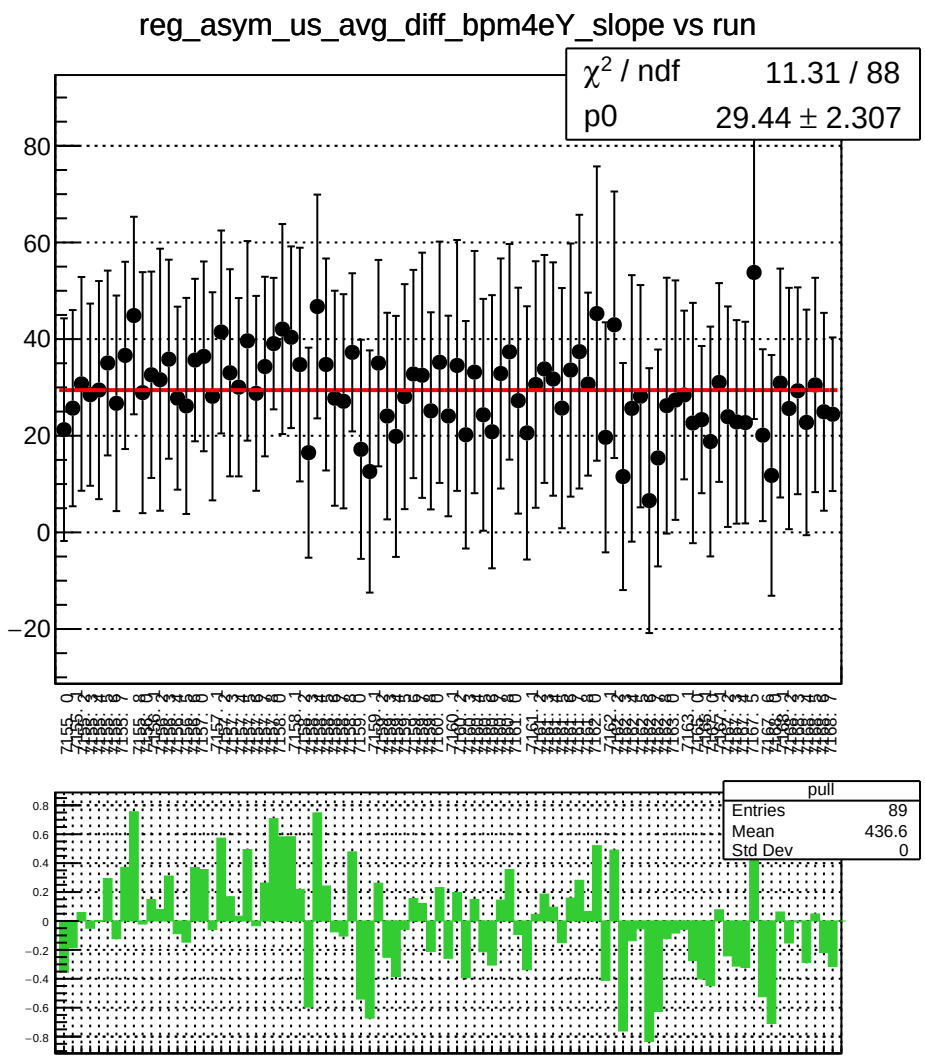

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 19.26 / 88
p0 −62.84 ± 2.514
−20
−40
−60
−80
−100
−120
pull
Entries 89
Mean 220.4
Std Dev 0
1
0.5
0
−0.5
−1

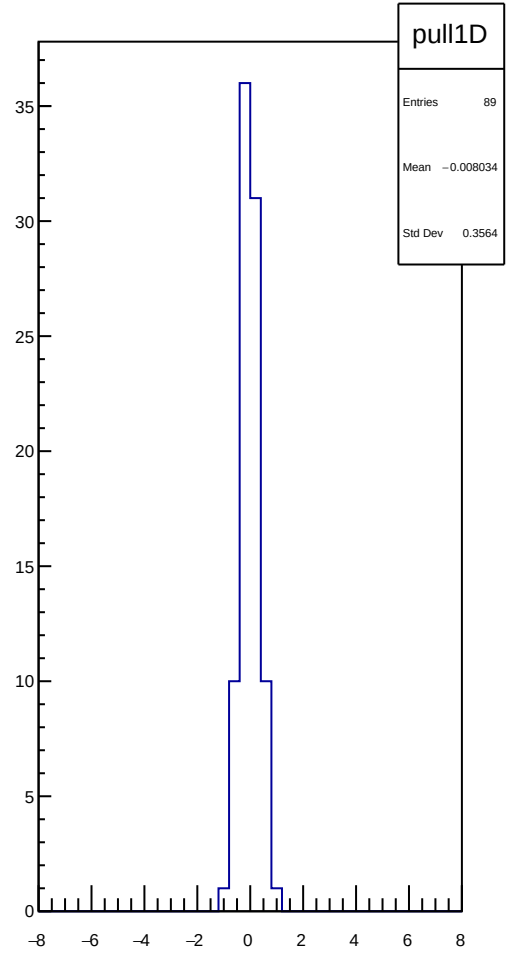

pull1D
Entries 89
Mean −0.0382
Std Dev 0.4636
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

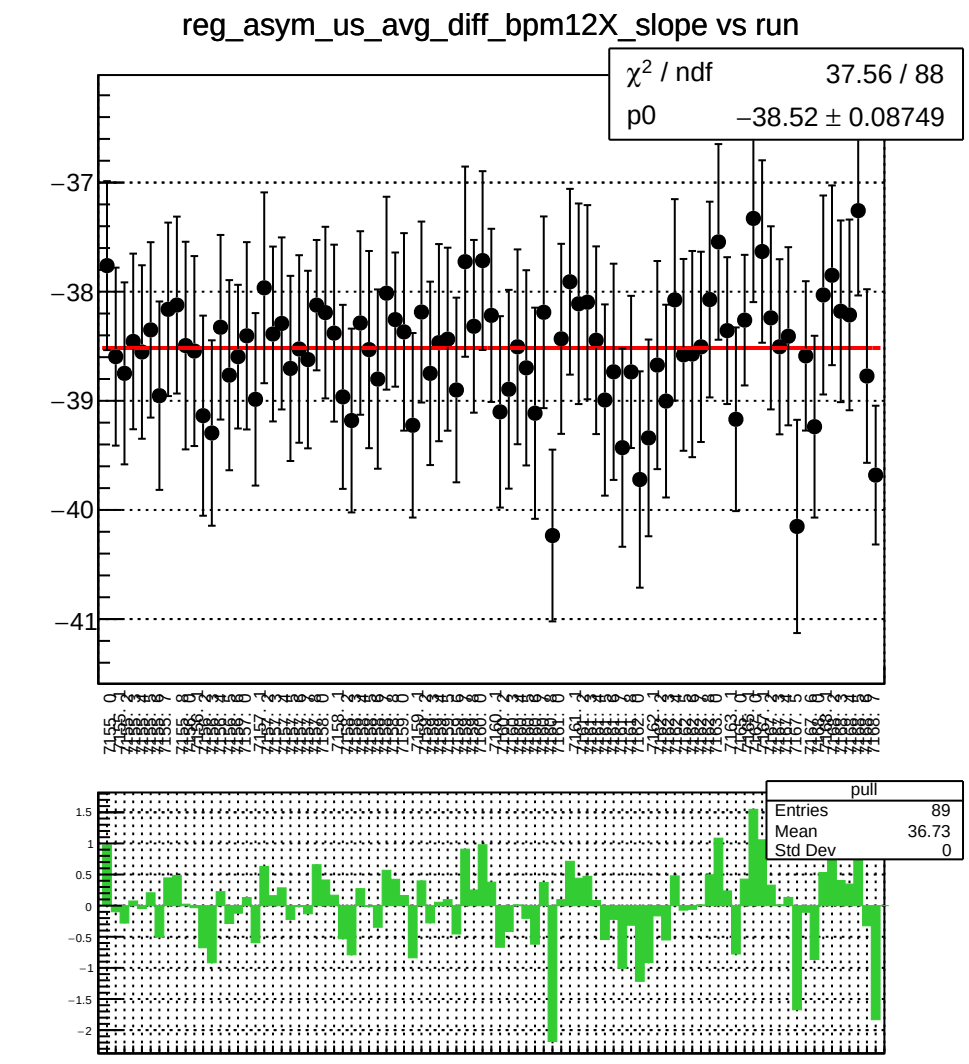

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.51 / 88
p0 −5.074 ± 1.986
pull
Entries 89
Mean 696.9
Std Dev 0
pull1D
Entries 89
Mean 0.003864
Std Dev 0.3436

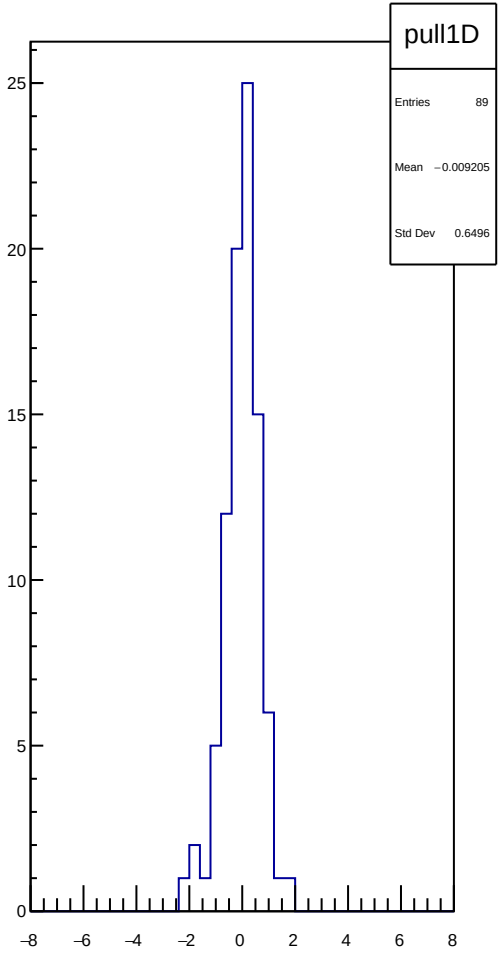

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.38 / 88
p0 63.94 ± 2.547
pull
Entries 89
Mean 222.7
Std Dev 0

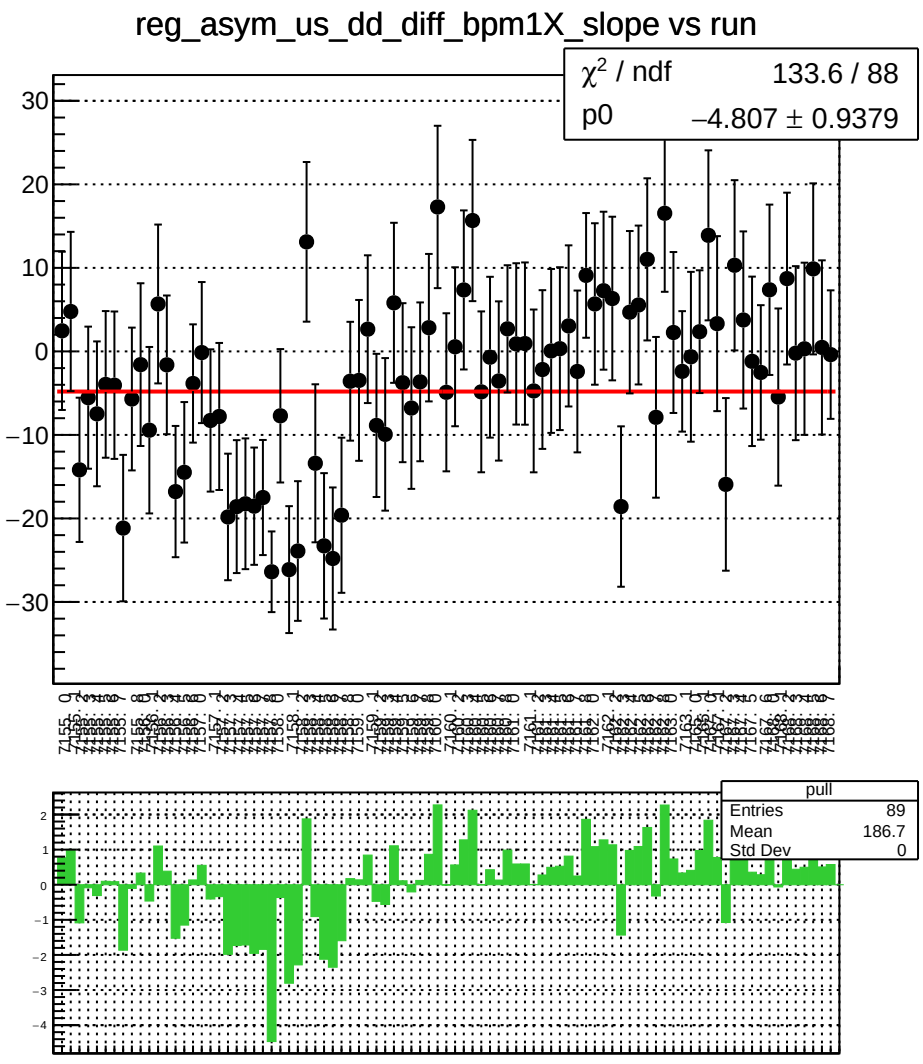

pull1D
Entries 89
Mean 0.03693
Std Dev 0.4652

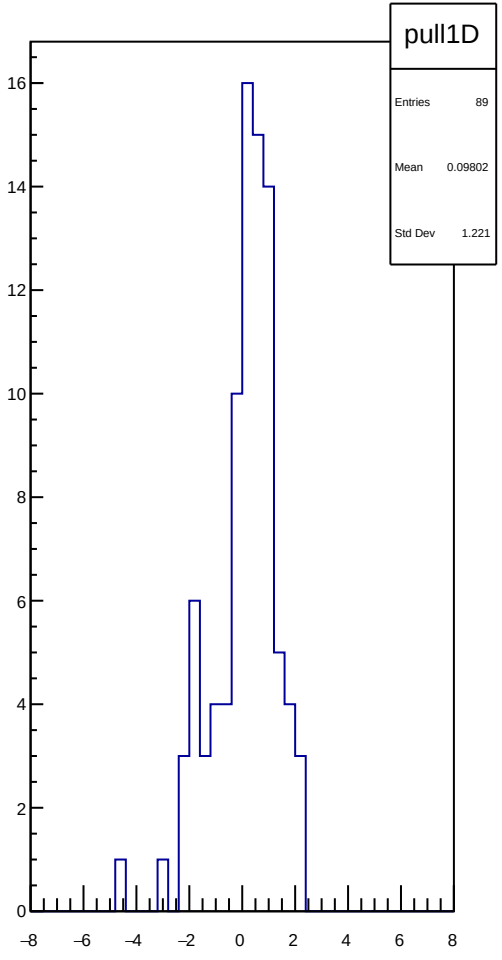

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.31 / 88
p0 29.44 ± 2.307
pull
Entries 89
Mean 436.6
Std Dev 0

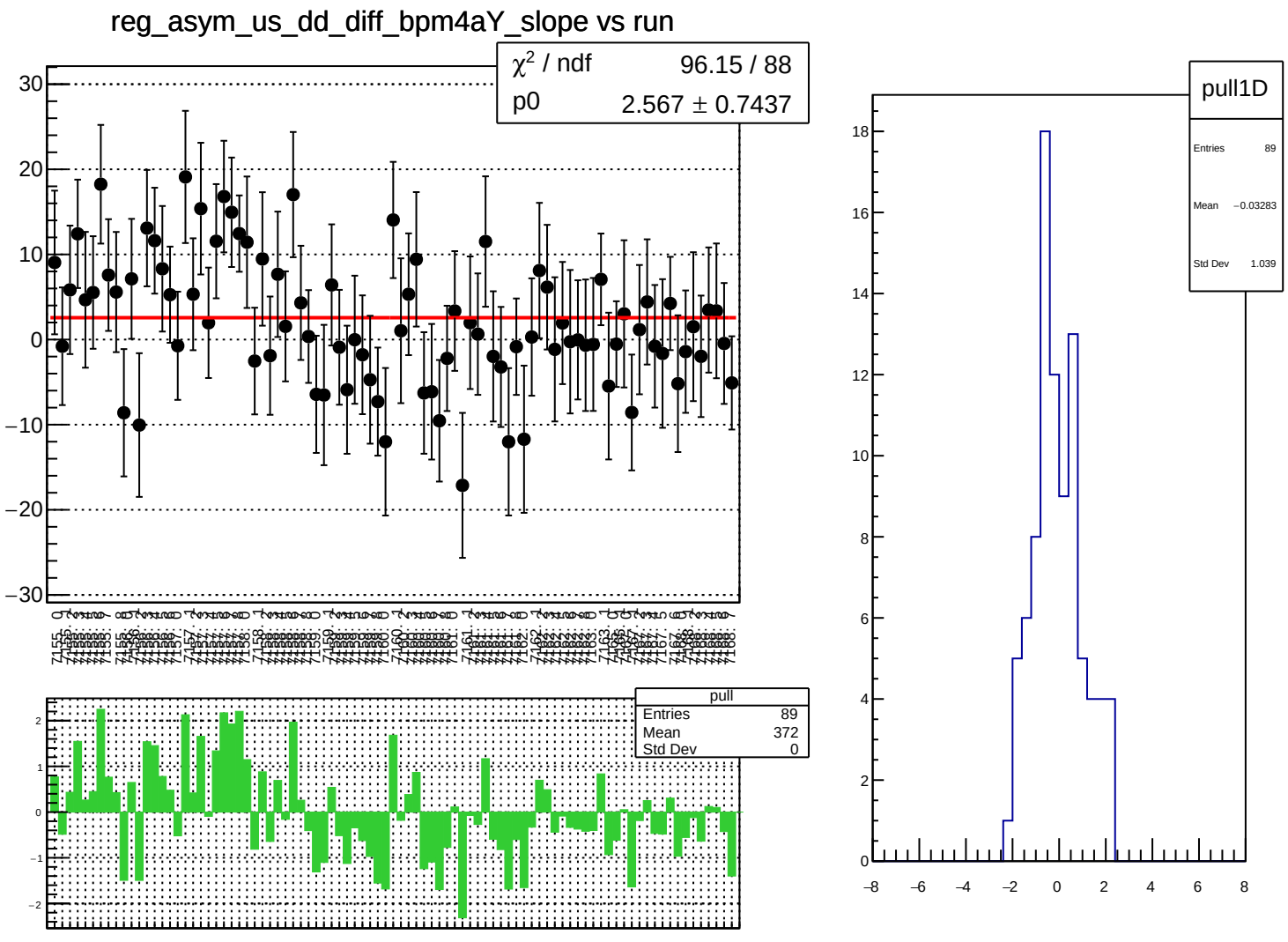

pull1D
Entries 89
Mean −0.008034
Std Dev 0.3564

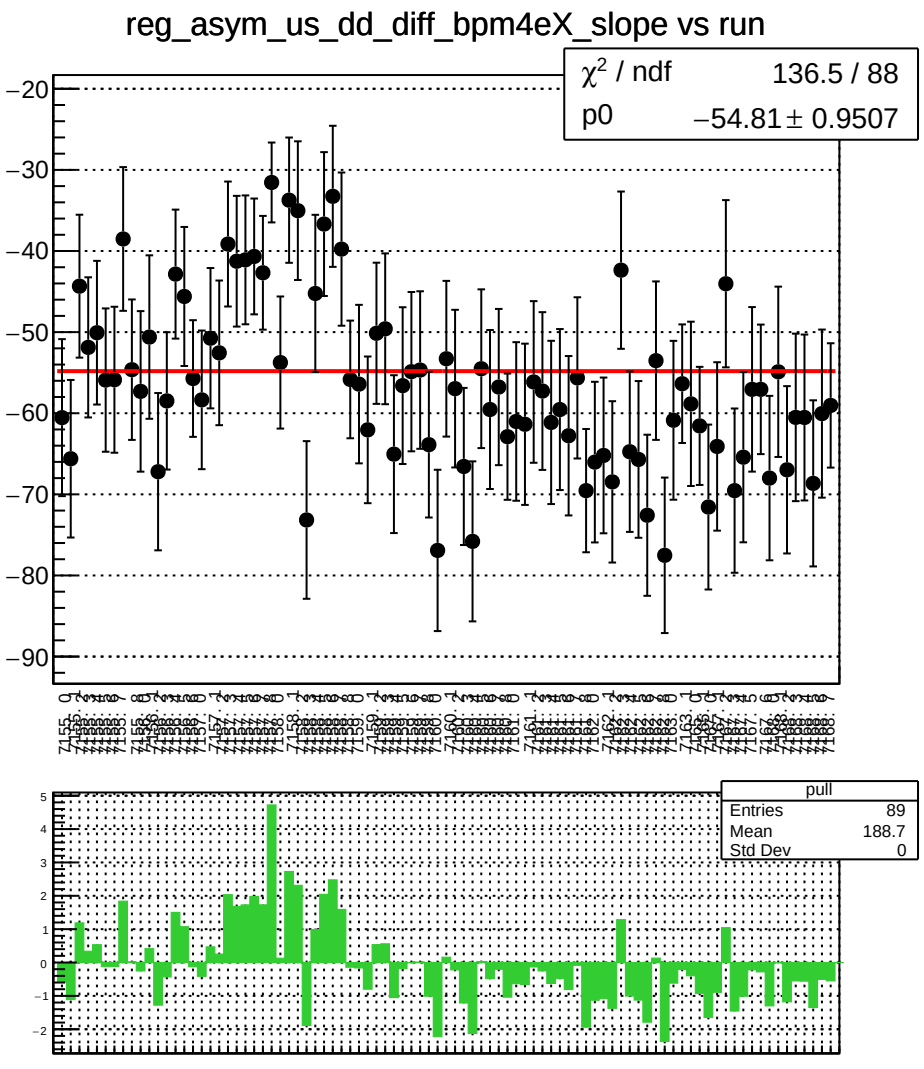

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 37.56 / 88
p0 −38.52 ± 0.08749
−37
−38
−39
−40
−41
pull
Entries 89
Mean 36.73
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

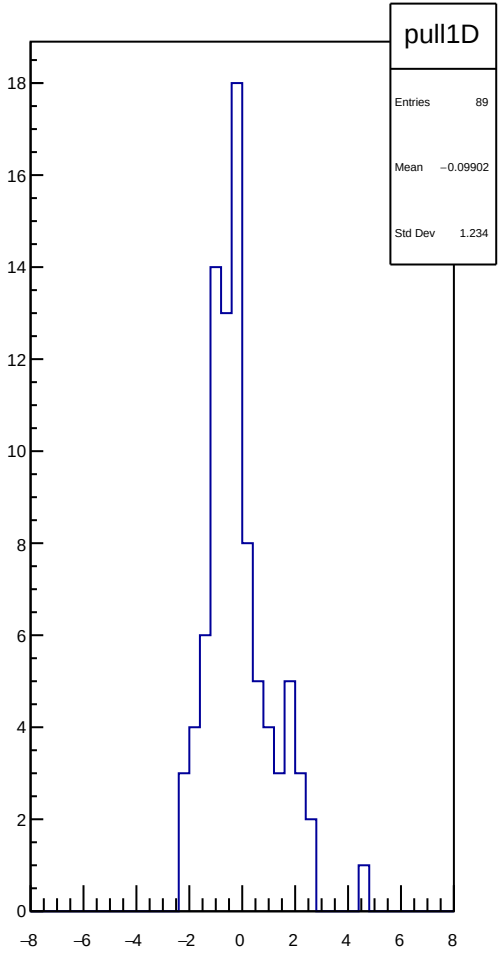

pull1D
Entries 89
Mean −0.009205
Std Dev 0.6496
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

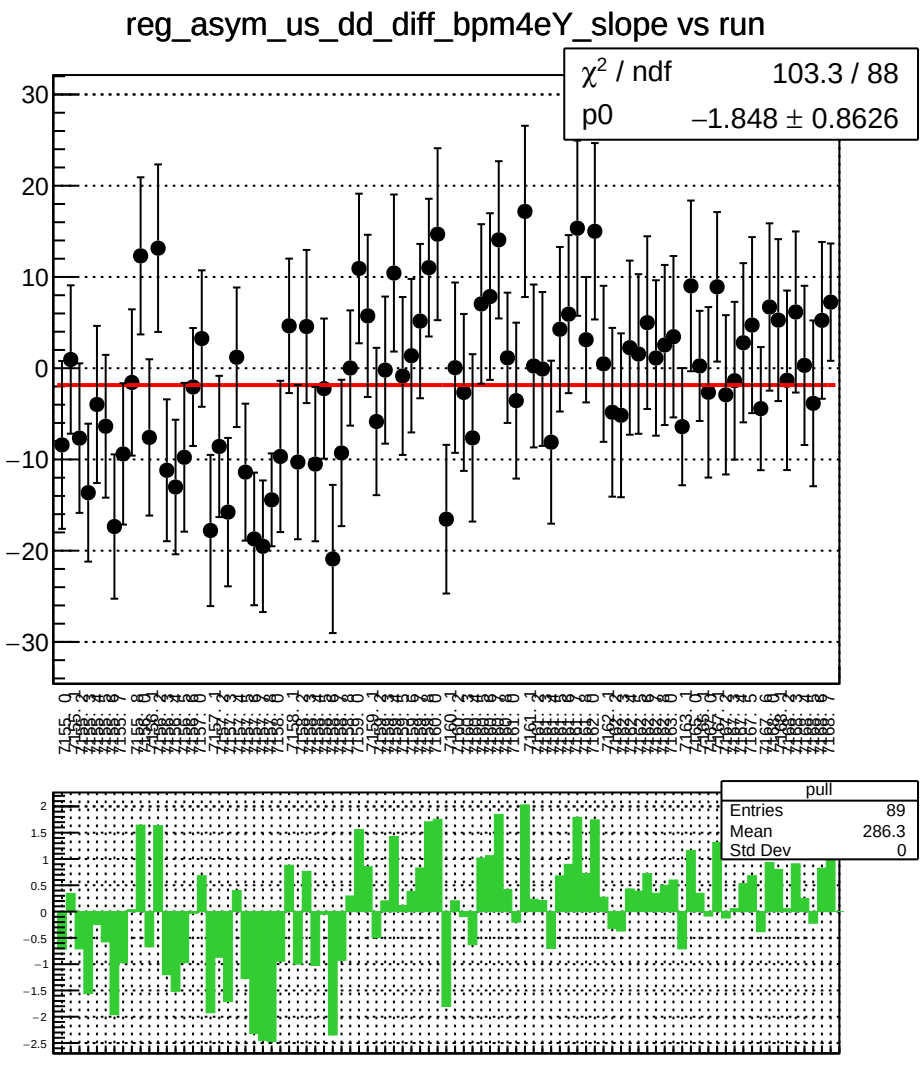

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 133.6 / 88
p0 −4.807 ± 0.9379
pull
Entries 89
Mean 186.7
Std Dev 0

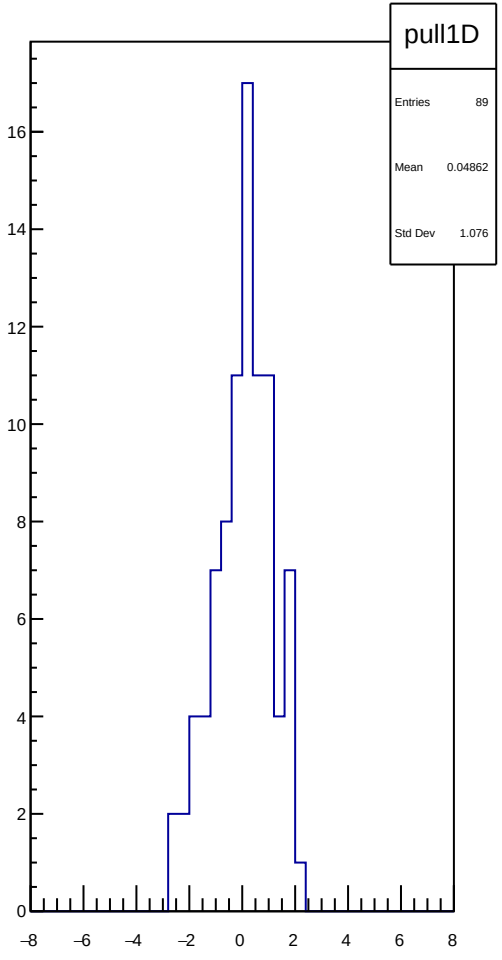

pull1D
Entries 89
Mean 0.09802
Std Dev 1.221

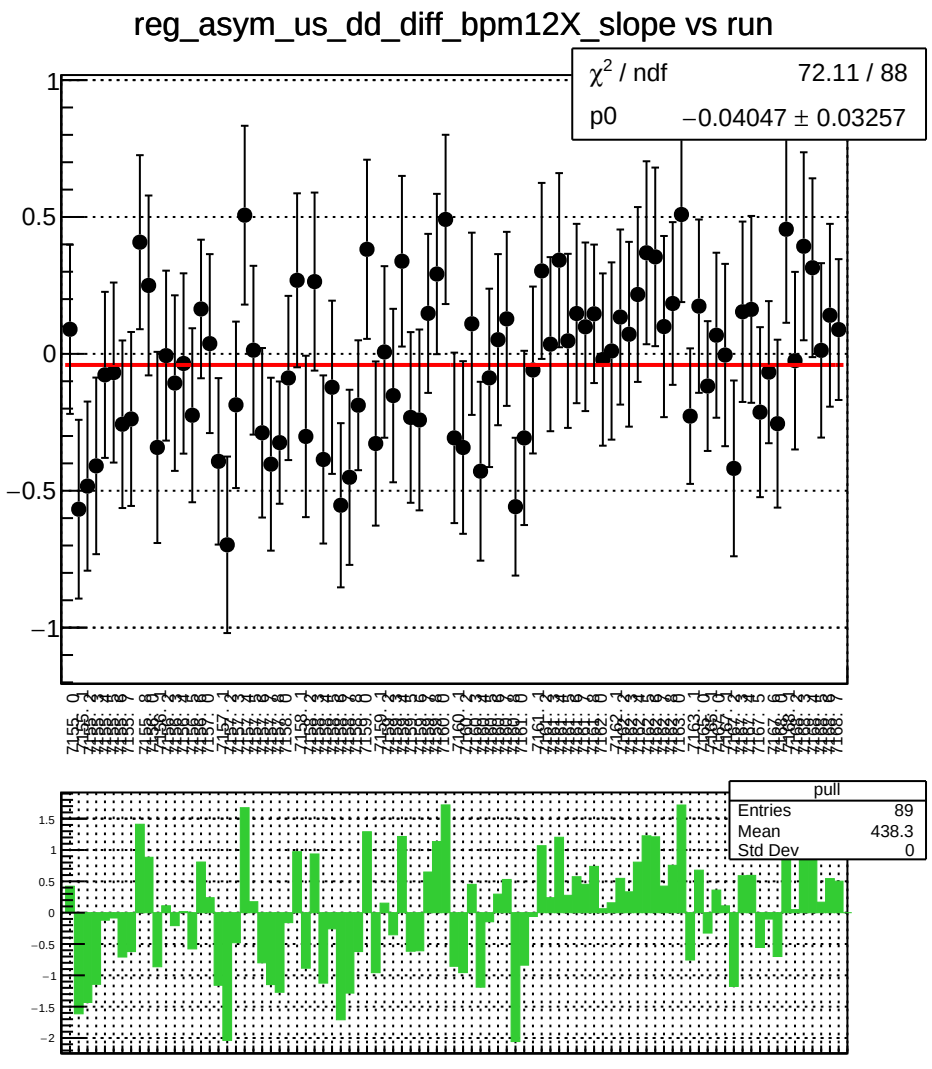

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.15 / 88
p0 2.567 ± 0.7437
pull
Entries 89
Mean 372
Std Dev 0
pull1D
Entries 89
Mean −0.03283
Std Dev 1.039

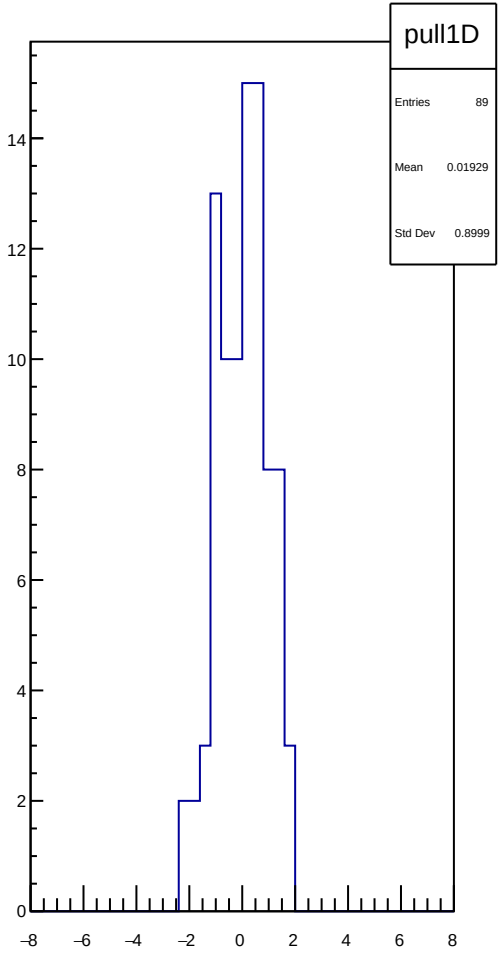

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 136.5 / 88
p0 −54.81 ± 0.9507
pull
Entries 89
Mean 188.7
Std Dev 0

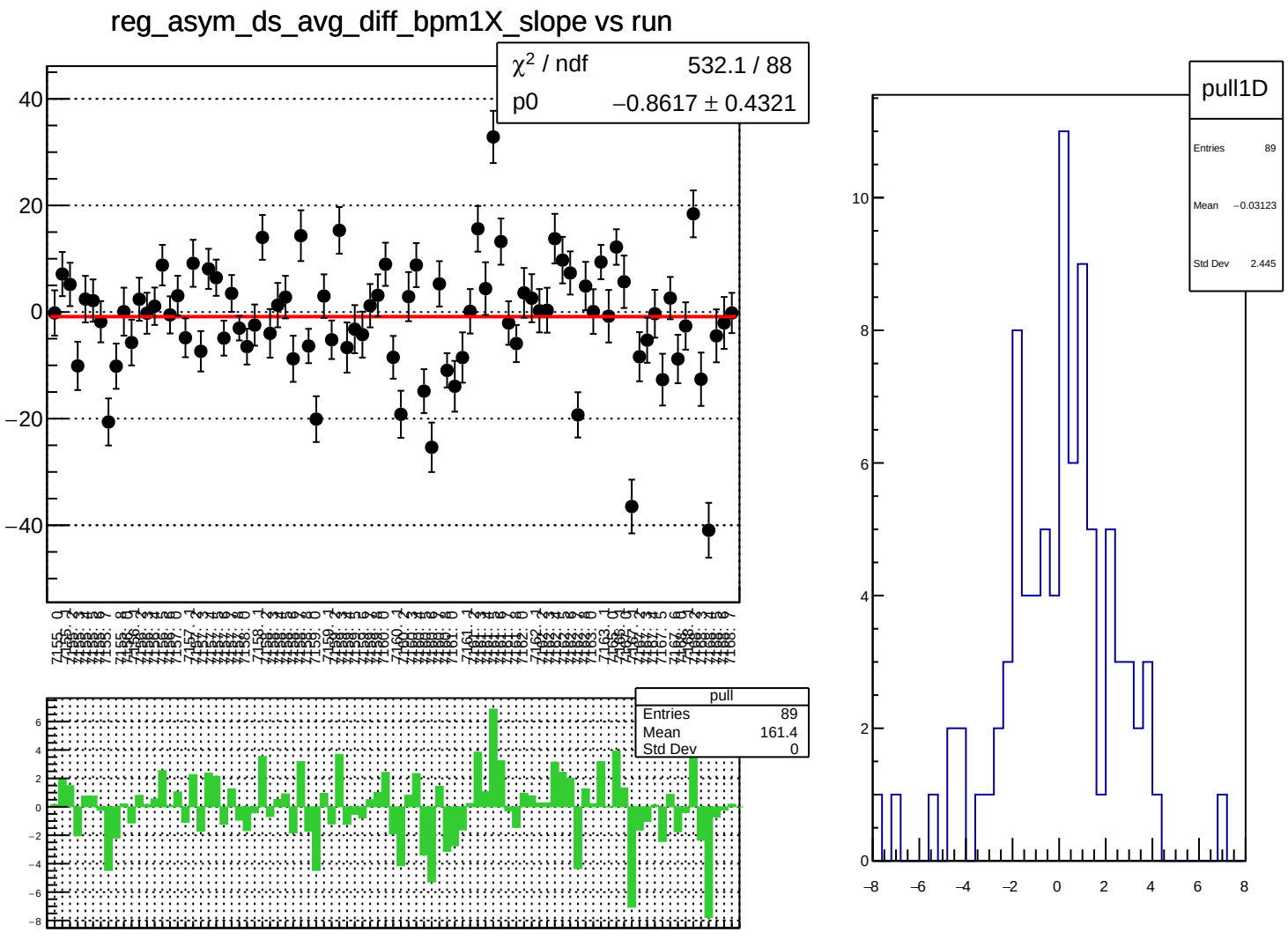

pull1D
Entries 89
Mean −0.09902
Std Dev 1.234

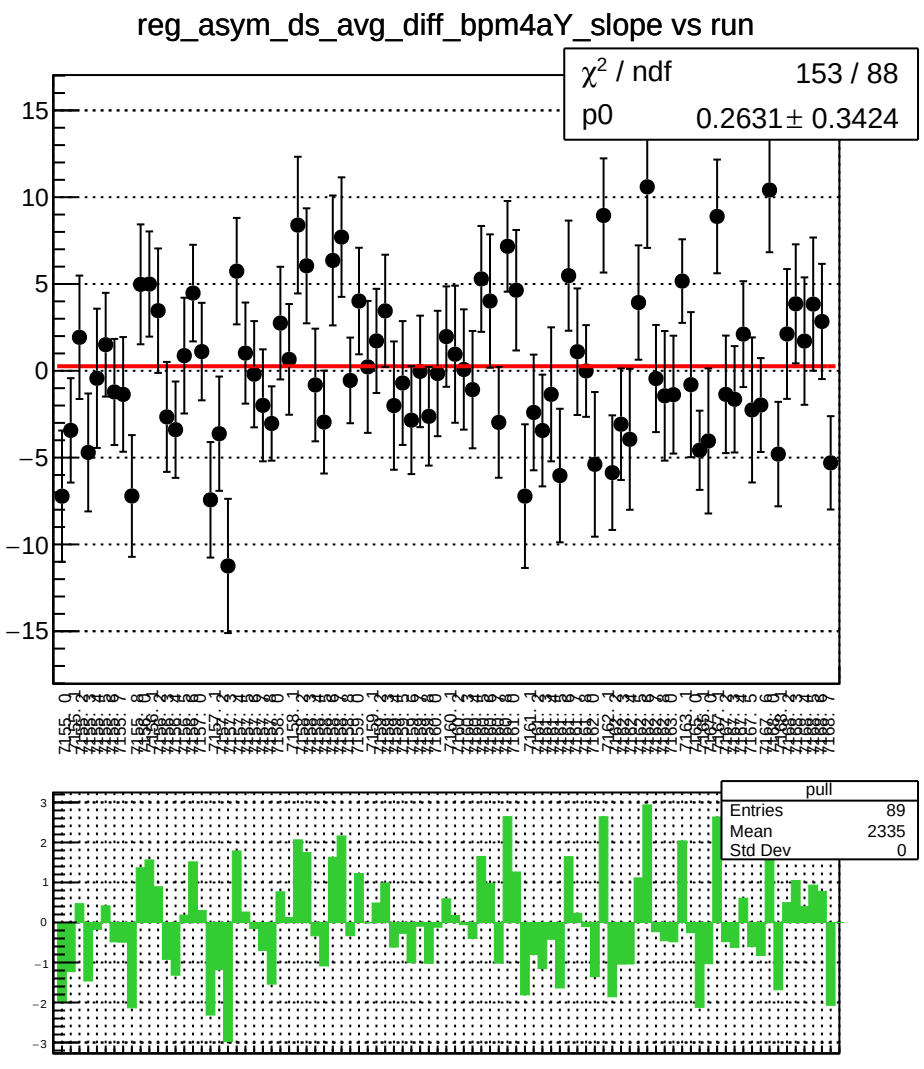

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 103.3 / 88
p0 −1.848 ± 0.8626
pull
Entries 89
Mean 286.3
Std Dev 0

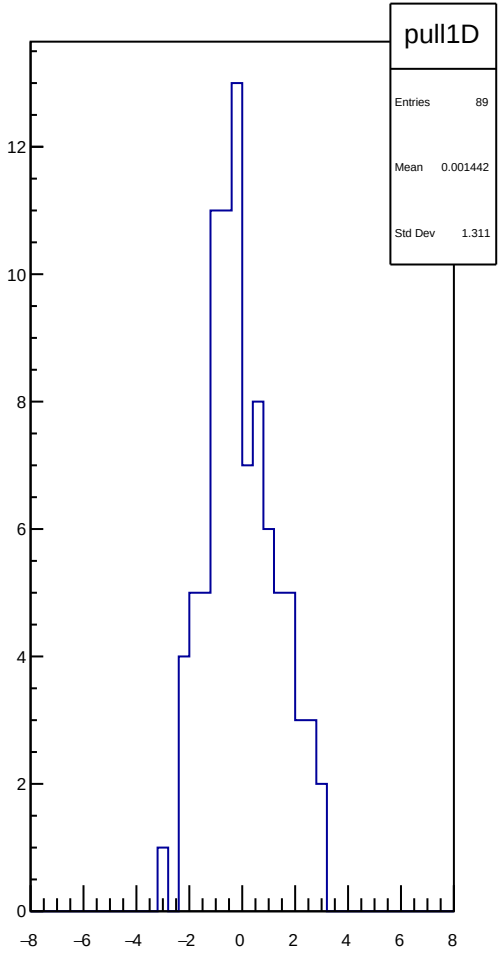

pull1D
Entries 89
Mean 0.04862
Std Dev 1.076

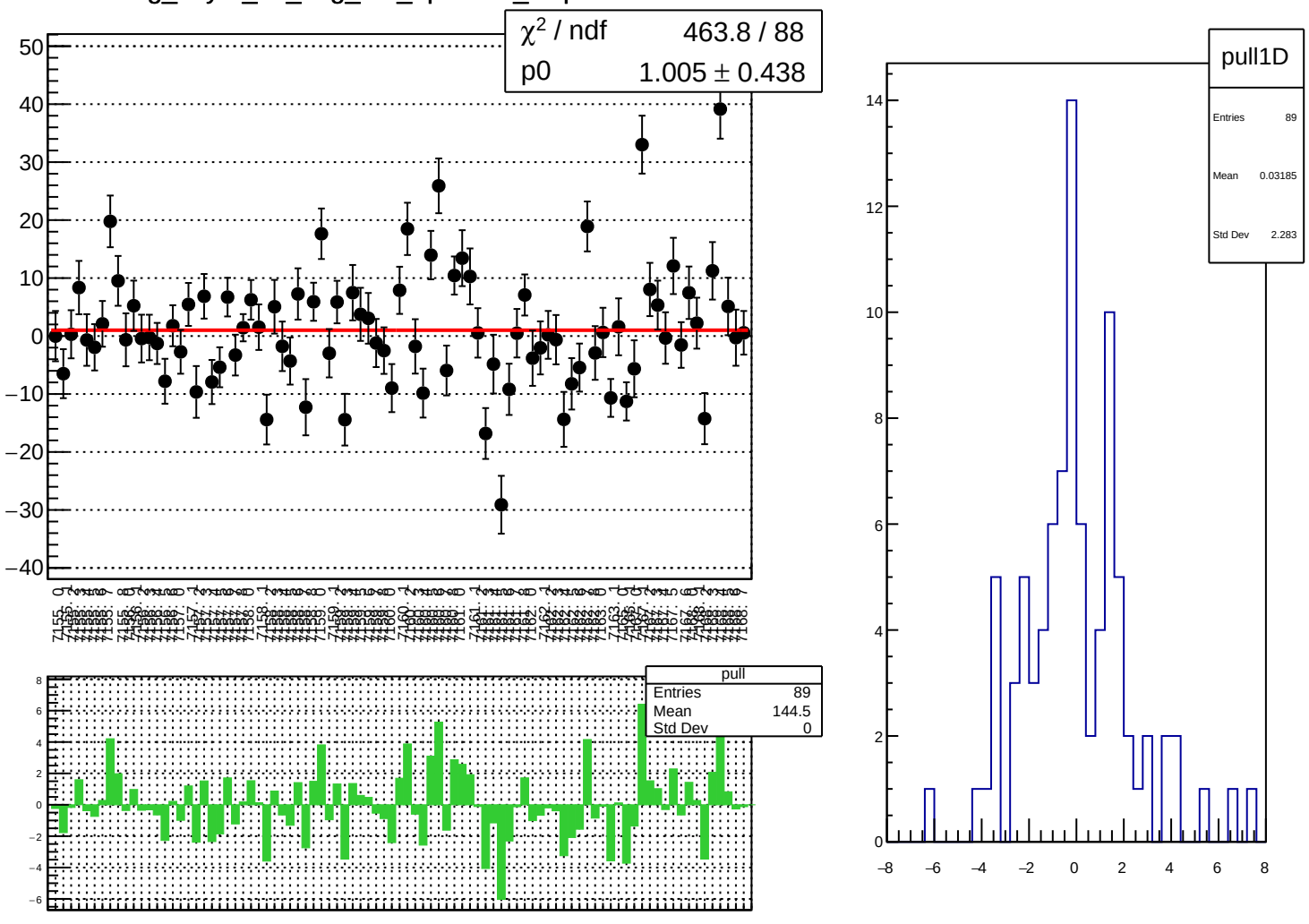

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 72.11 / 88
p0 −0.04047 ± 0.03257
pull
Entries 89
Mean 438.3
Std Dev 0

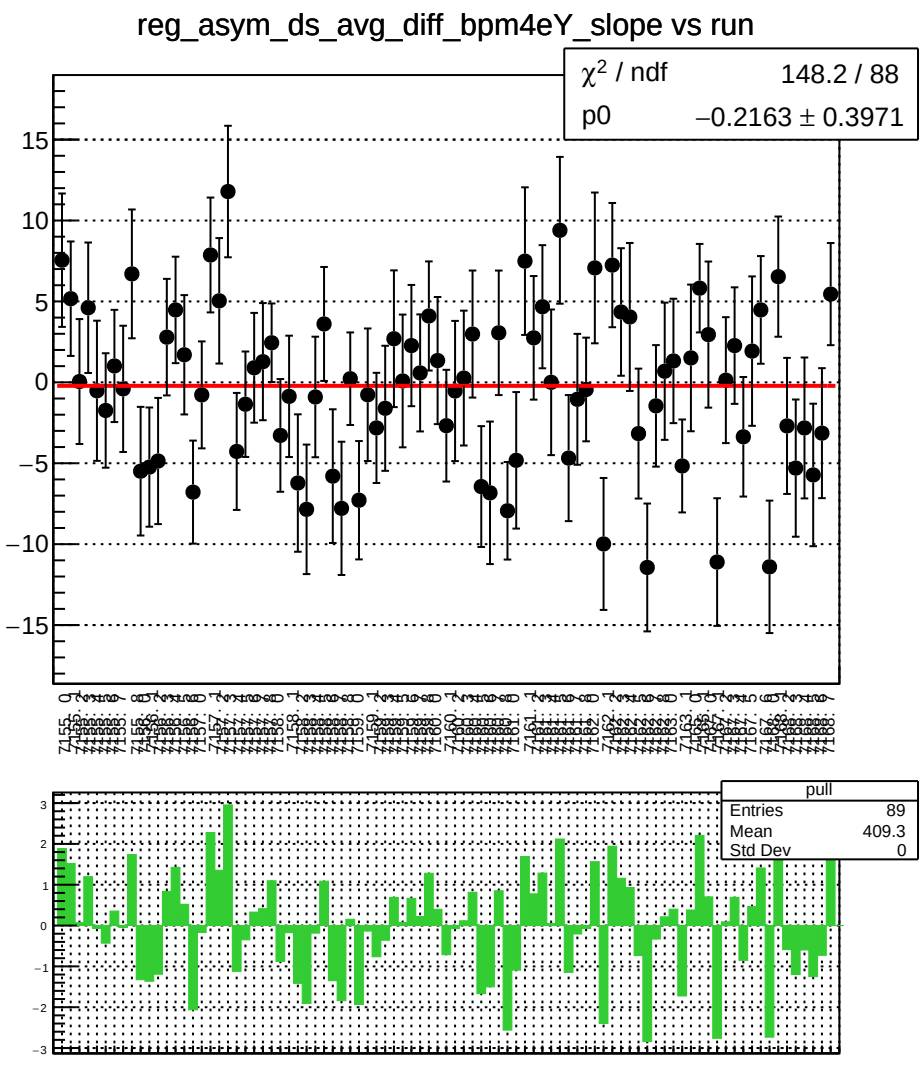

pull1D
Entries 89
Mean 0.01929
Std Dev 0.8999

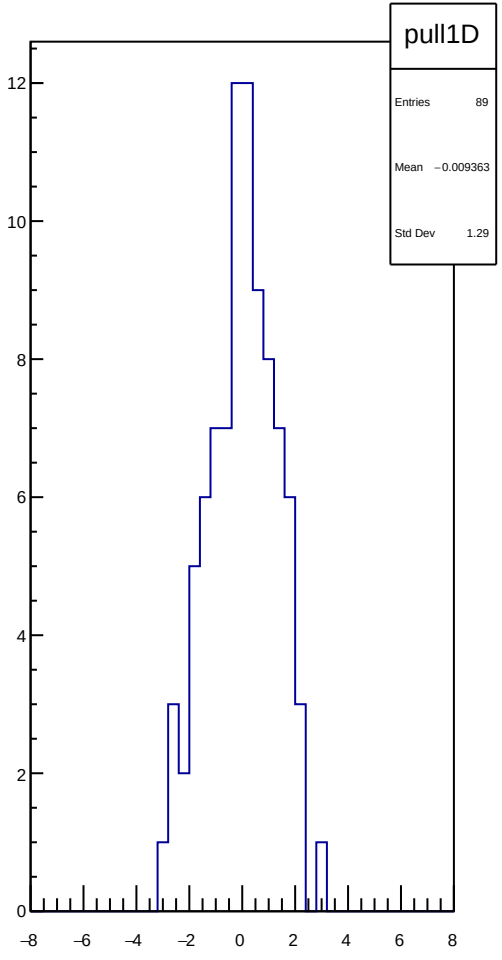

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 532.1 / 88
p0 −0.8617 ± 0.4321
pull
Entries 89
Mean 161.4
Std Dev 0
pull1D
Entries 89
Mean −0.03123
Std Dev 2.445

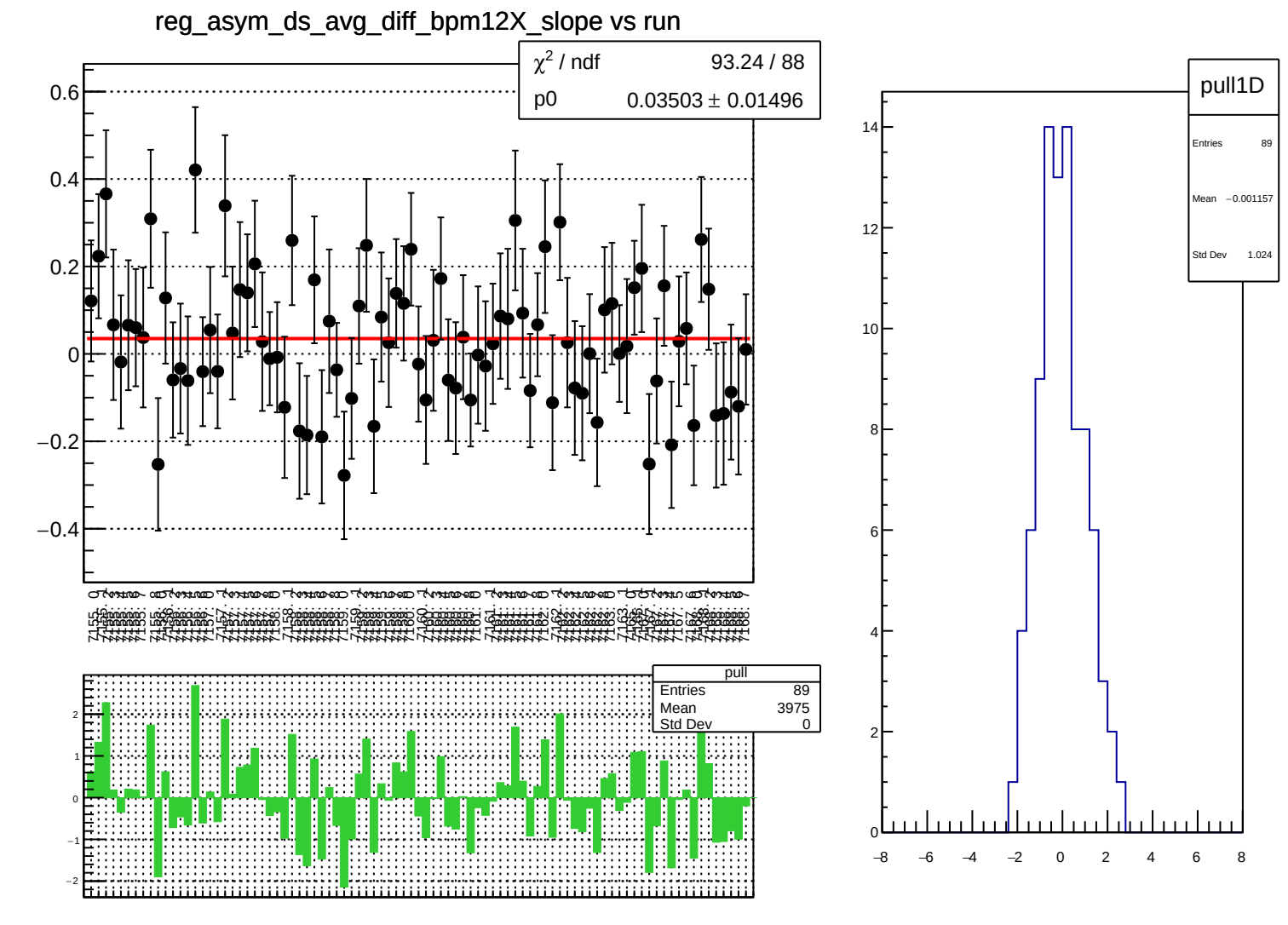

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 153 / 88
p0 0.2631 ± 0.3424
pull
Entries 89
Mean 2335
Std Dev 0

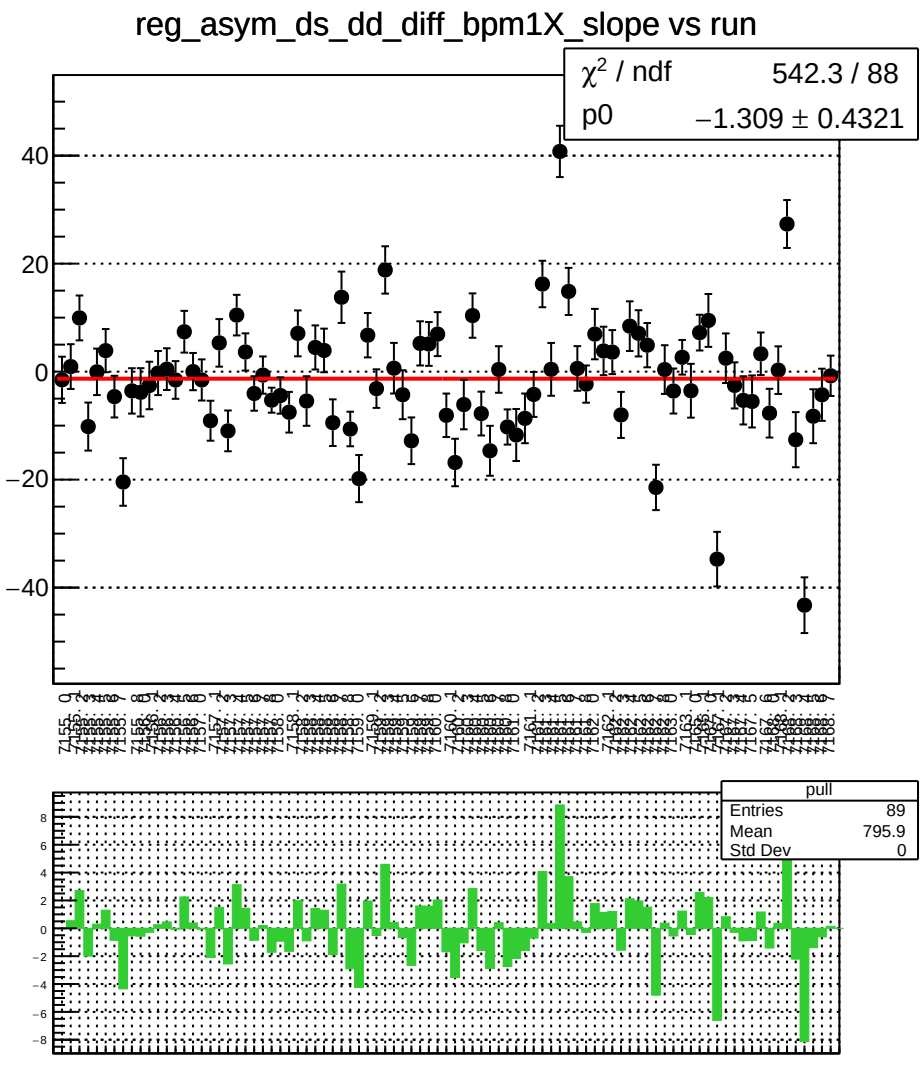

pull1D
Entries 89
Mean 0.001442
Std Dev 1.311

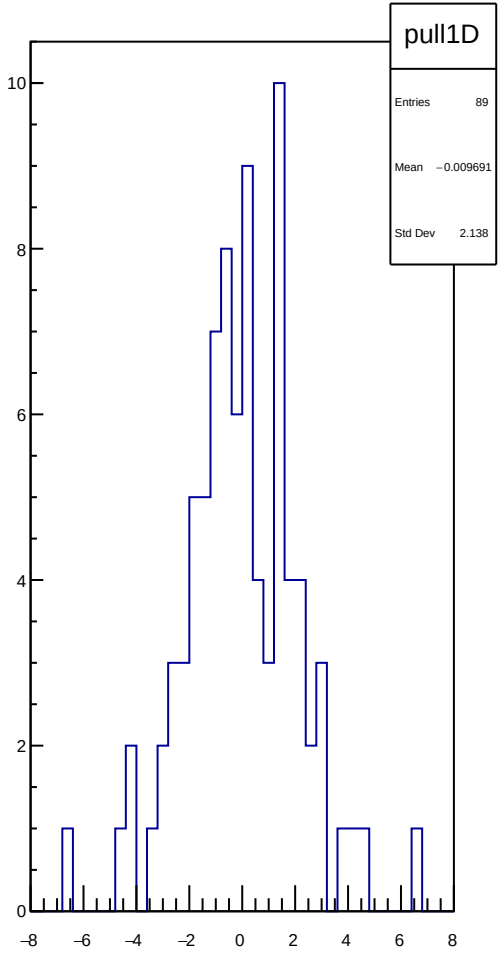

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 463.8 / 88
p0 1.005 ± 0.438
pull
Entries 89
Mean 144.5
Std Dev 0
pull1D
Entries 89
Mean 0.03185
Std Dev 2.283

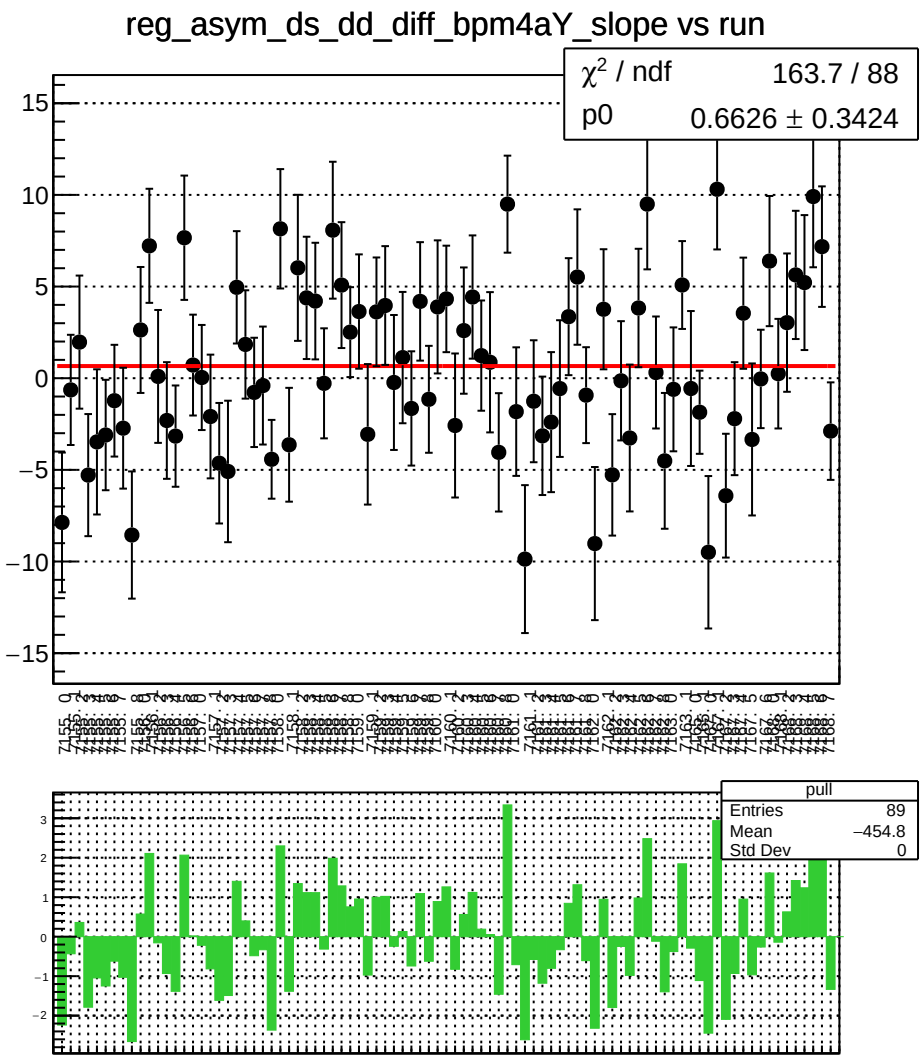

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 148.2 / 88
p0 −0.2163 ± 0.3971
pull
Entries 89
Mean 409.3
Std Dev 0

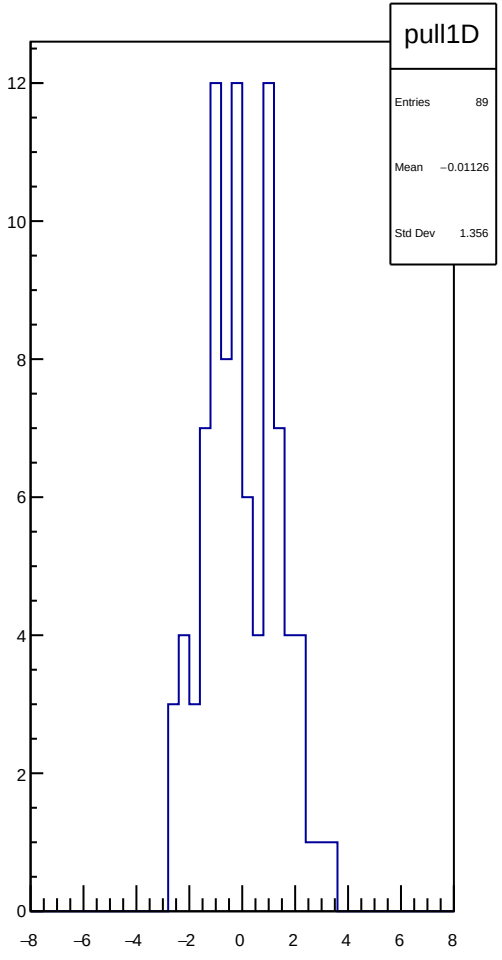

pull1D
Entries 89
Mean −0.009363
Std Dev 1.29

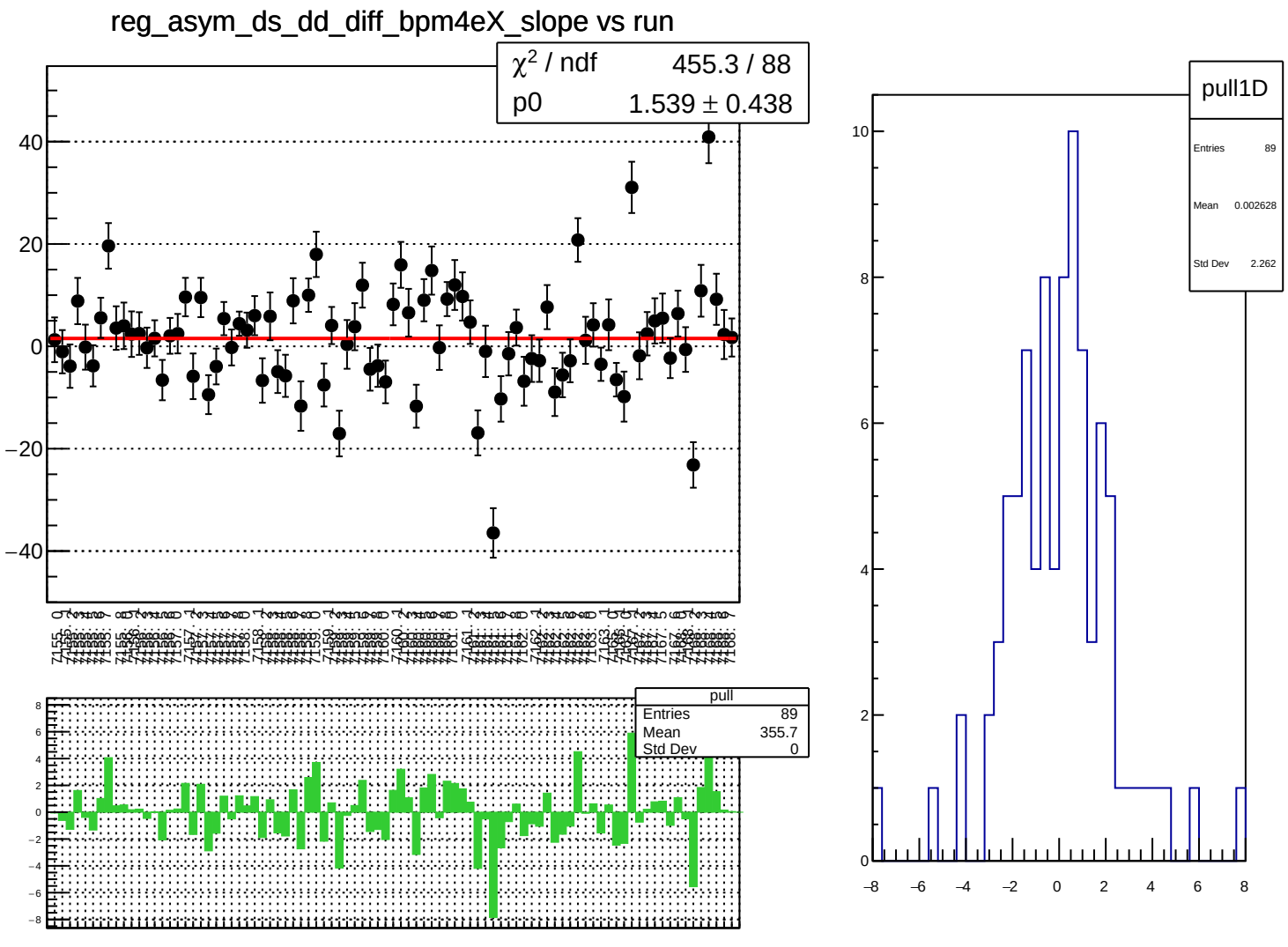

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 93.24 / 88
p0 0.03503 ± 0.01496
pull
Entries 89
Mean 3975
Std Dev 0
pull1D
Entries 89
Mean −0.001157
Std Dev 1.024

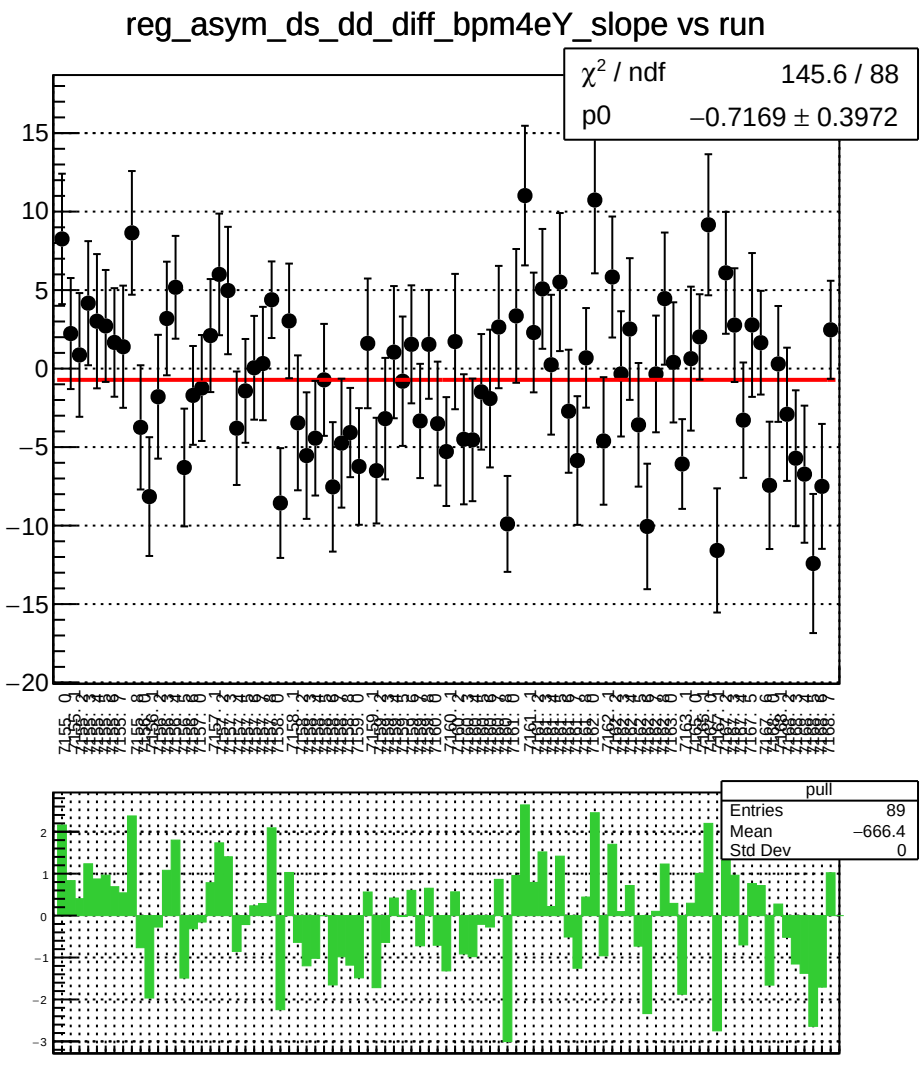

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 542.3 / 88
p0 −1.309 ± 0.4321
pull
Entries 89
Mean 795.9
Std Dev 0

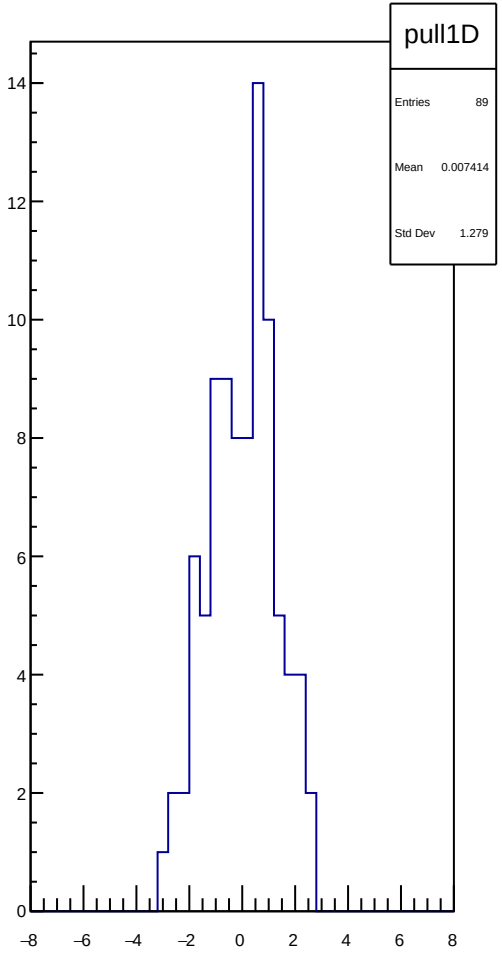

pull1D
Entries 89
Mean −0.009691
Std Dev 2.138

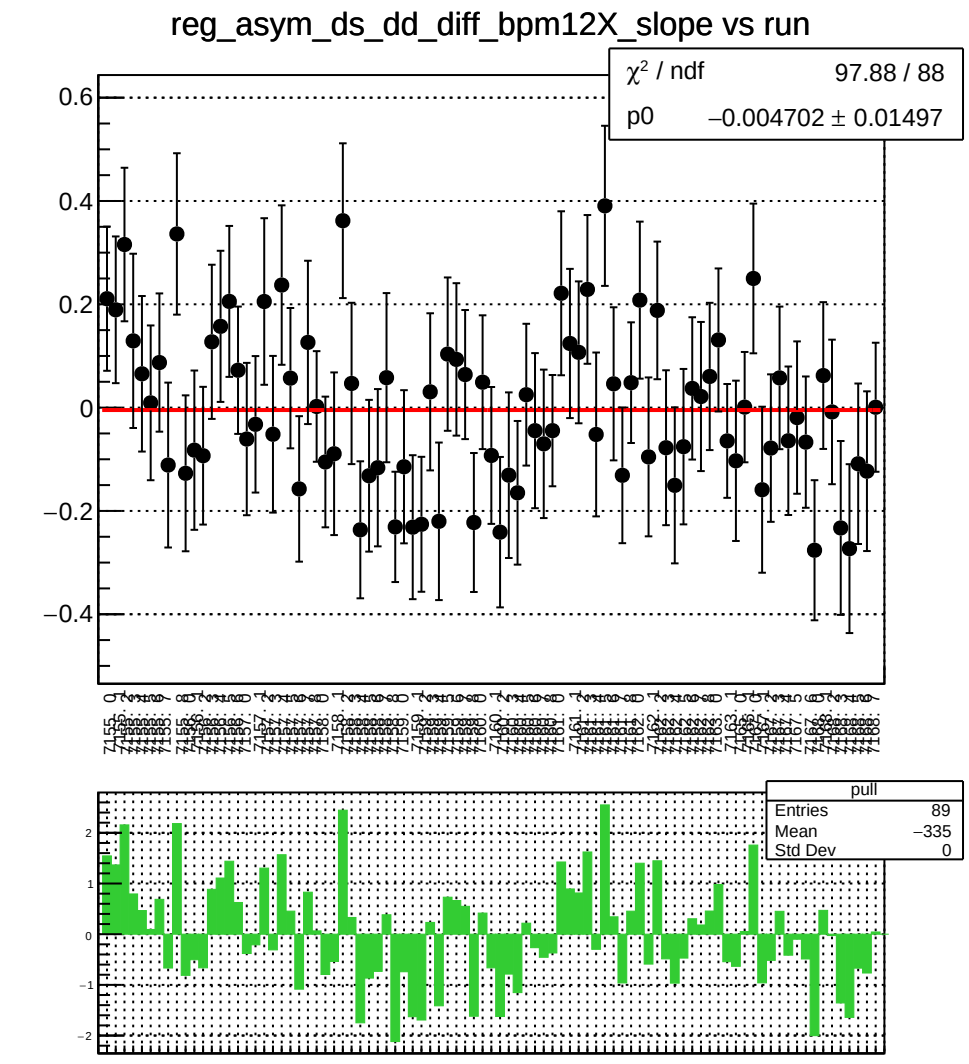

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 163.7 / 88
p0 0.6626 ± 0.3424
pull
Entries 89
Mean −454.8
Std Dev 0

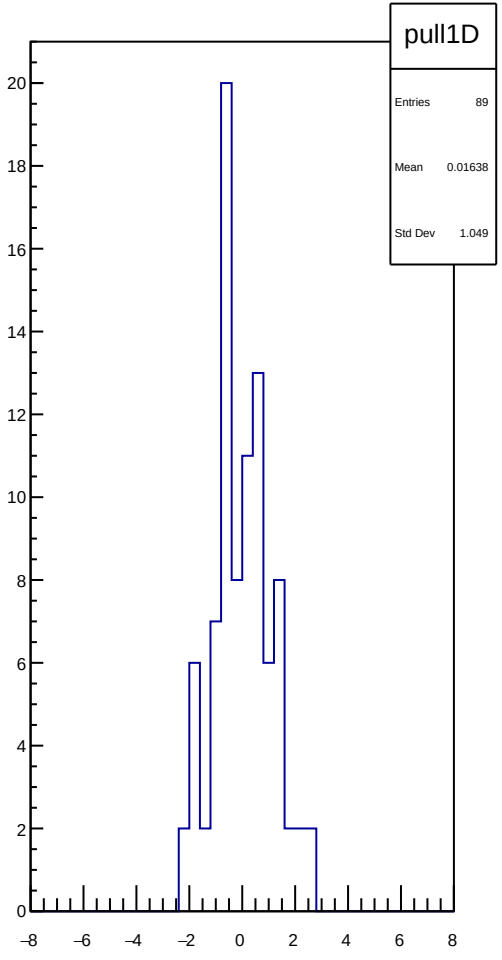

pull1D
Entries 89
Mean −0.01126
Std Dev 1.356

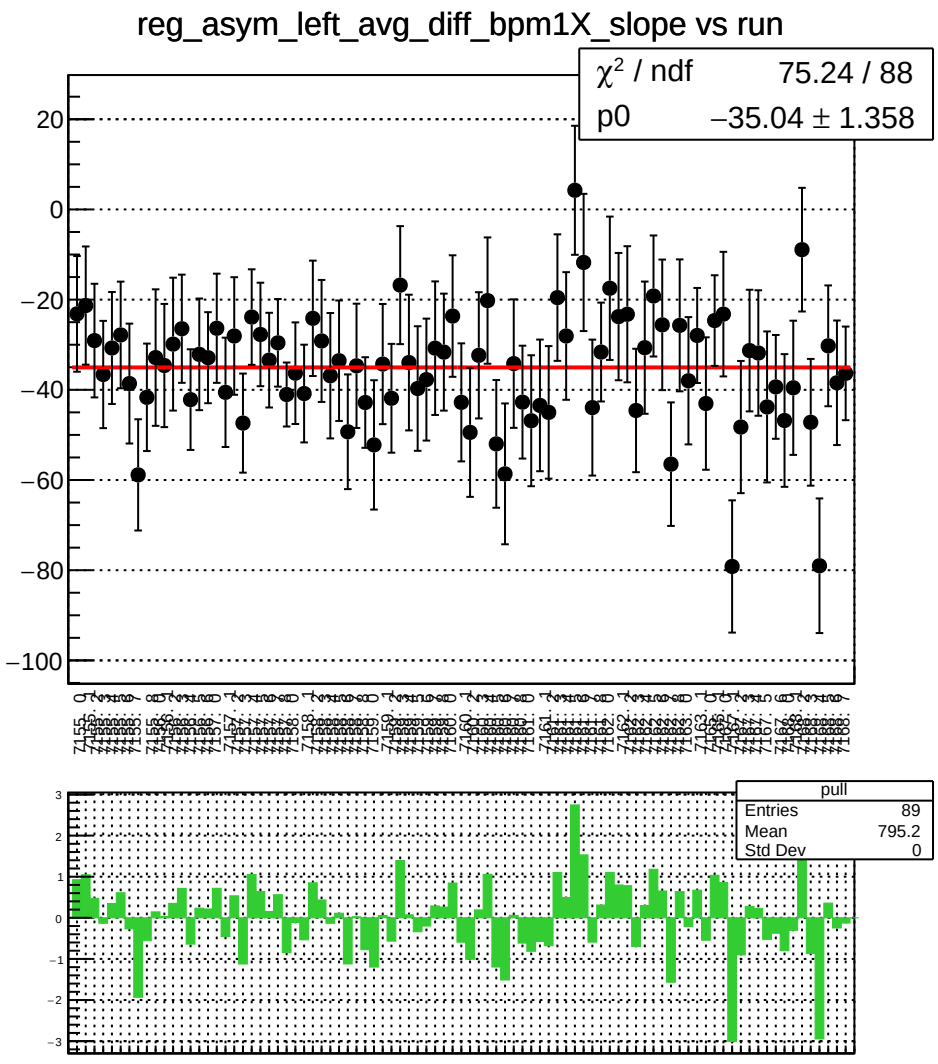

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 455.3 / 88
p0 1.539 ± 0.438
pull
Entries 89
Mean 355.7
Std Dev 0
pull1D
Entries 89
Mean 0.002628
Std Dev 2.262

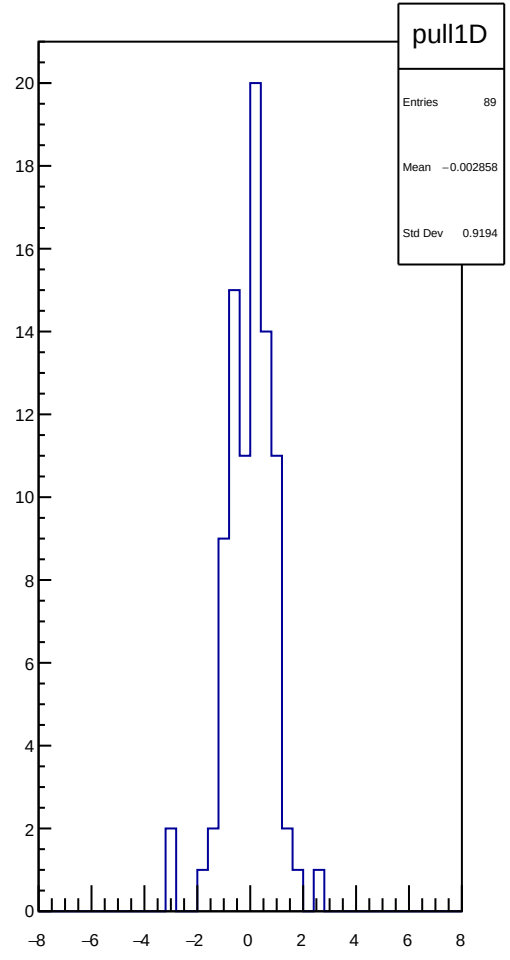

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 145.6 / 88
p0 −0.7169 ± 0.3972
pull
Entries 89
Mean −666.4
Std Dev 0

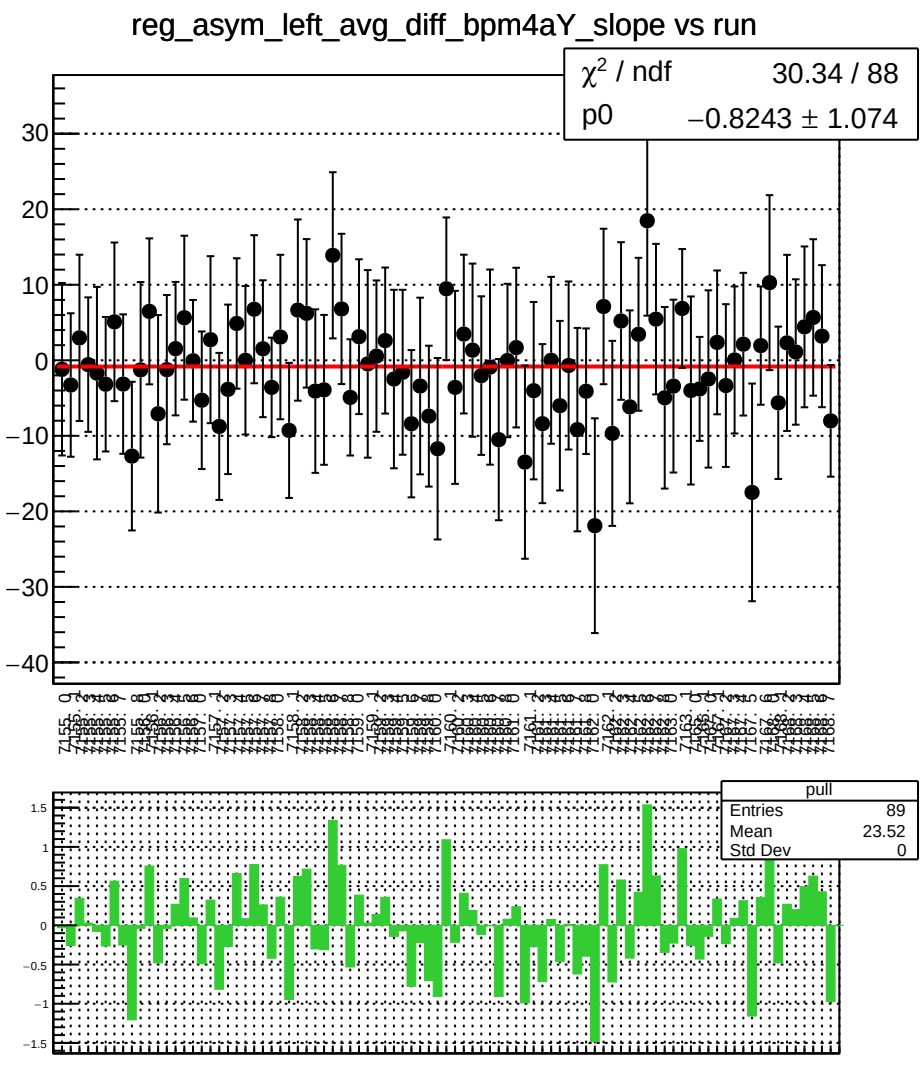

pull1D
Entries 89
Mean 0.007414
Std Dev 1.279

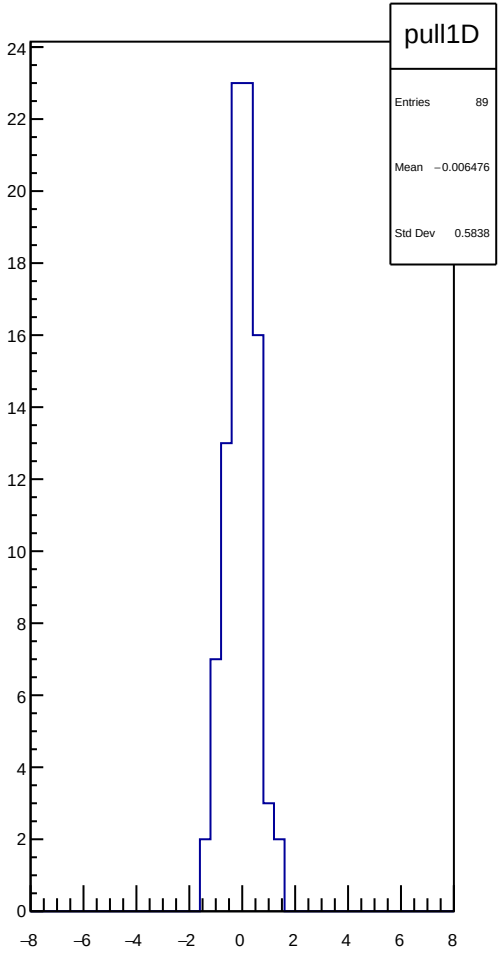

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 97.88 / 88
p0 −0.004702 ± 0.01497
pull
Entries 89
Mean −335
Std Dev 0

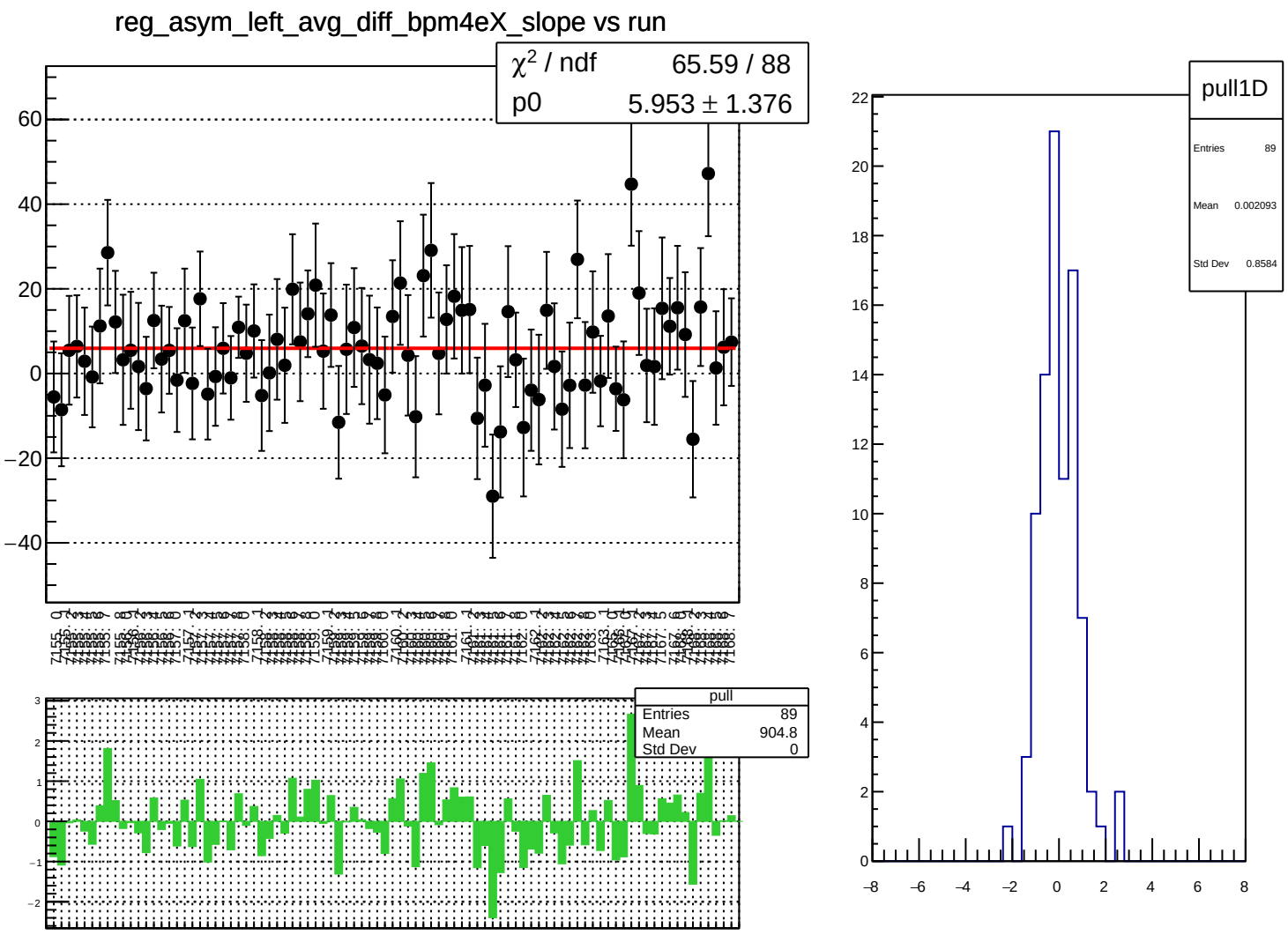

pull1D
Entries 89
Mean 0.01638
Std Dev 1.049

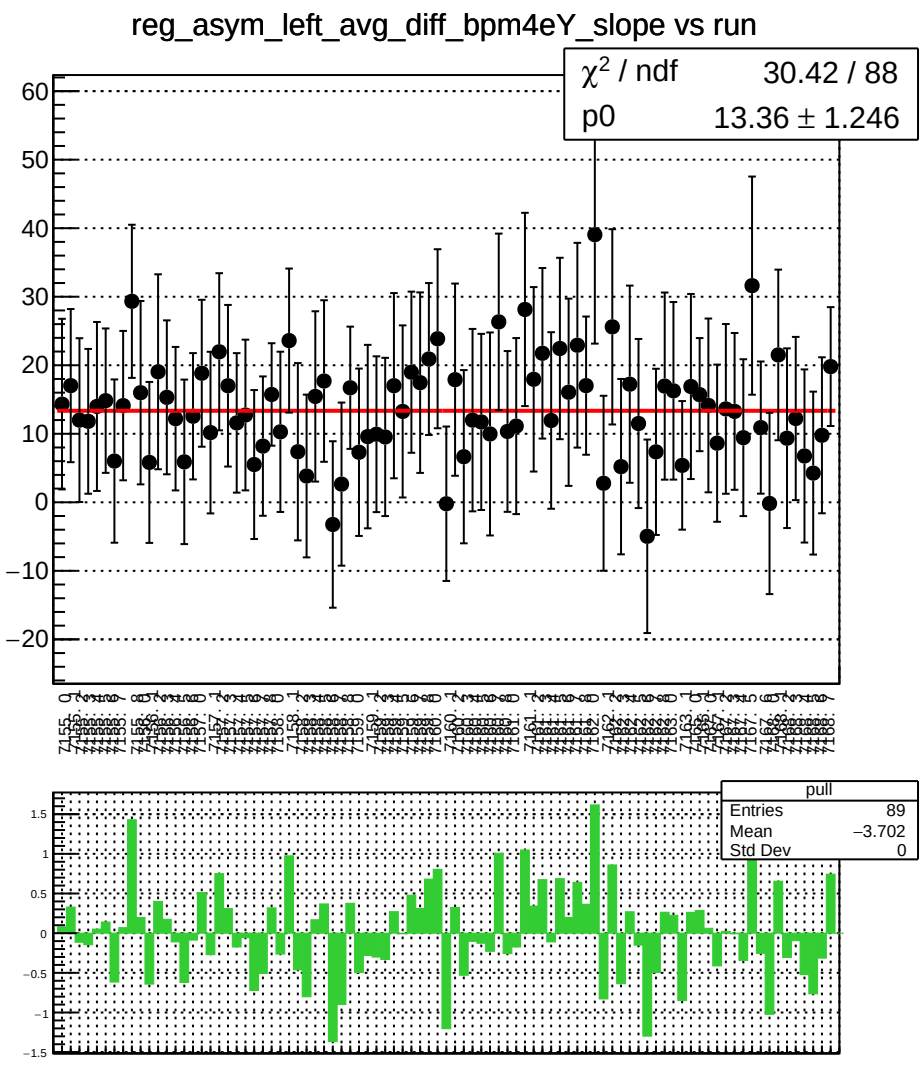

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 75.24 / 88
p0 −35.04 ± 1.358
pull
Entries 89
Mean 795.2
Std Dev 0

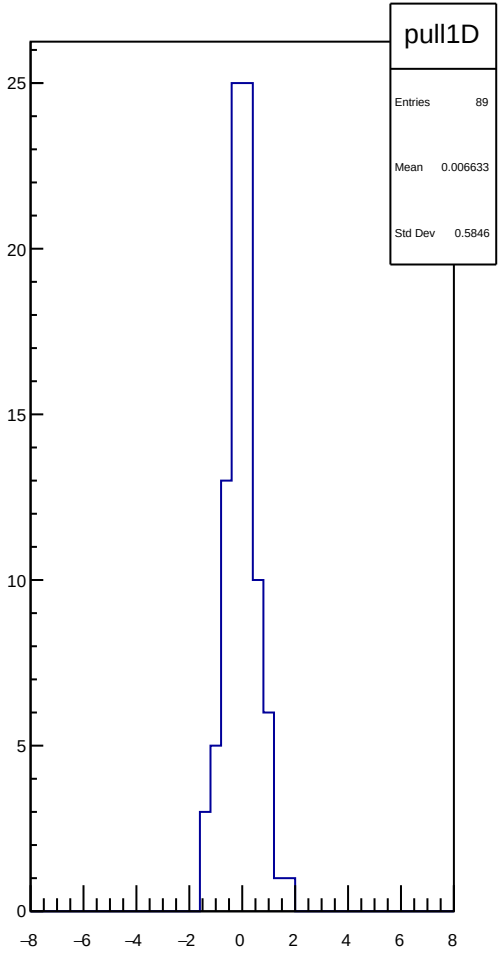

pull1D
Entries 89
Mean −0.002858
Std Dev 0.9194

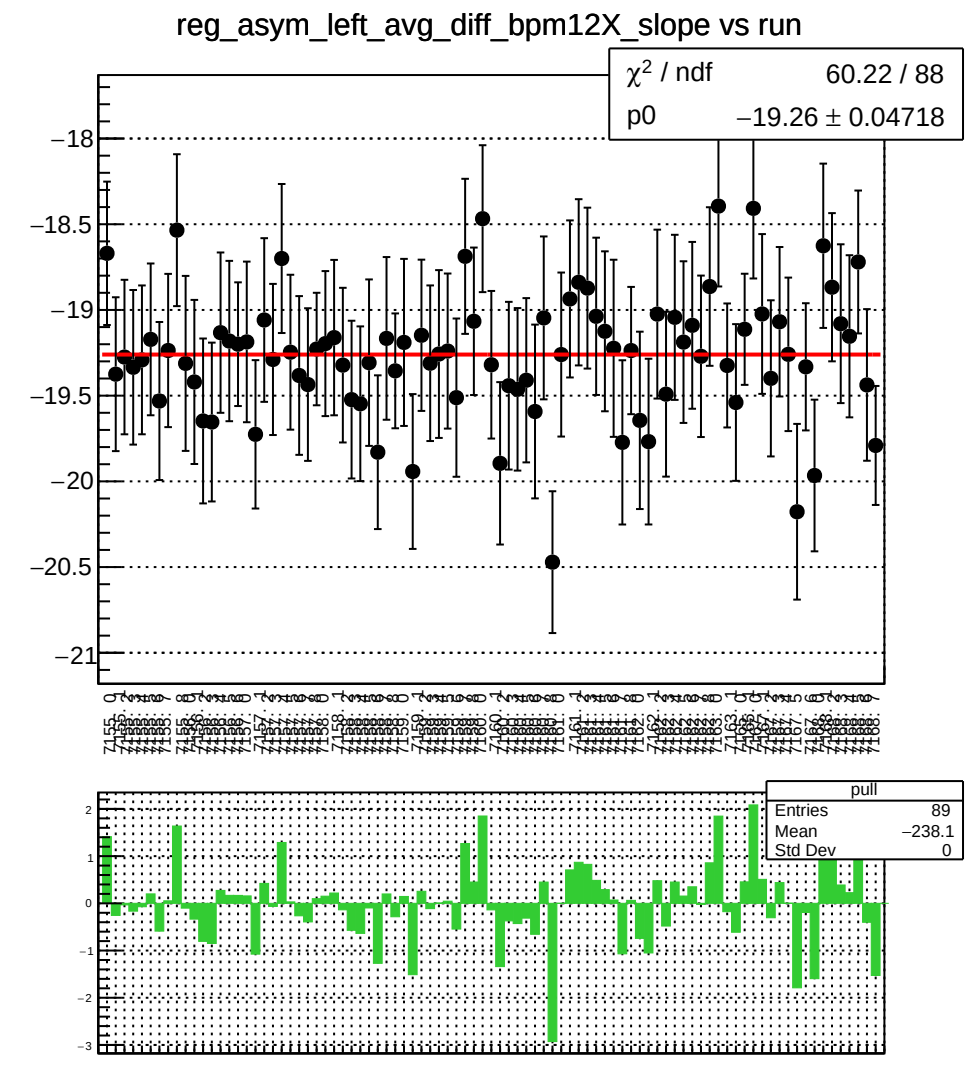

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.34 / 88
p0 −0.8243 ± 1.074
pull
Entries 89
Mean 23.52
Std Dev 0

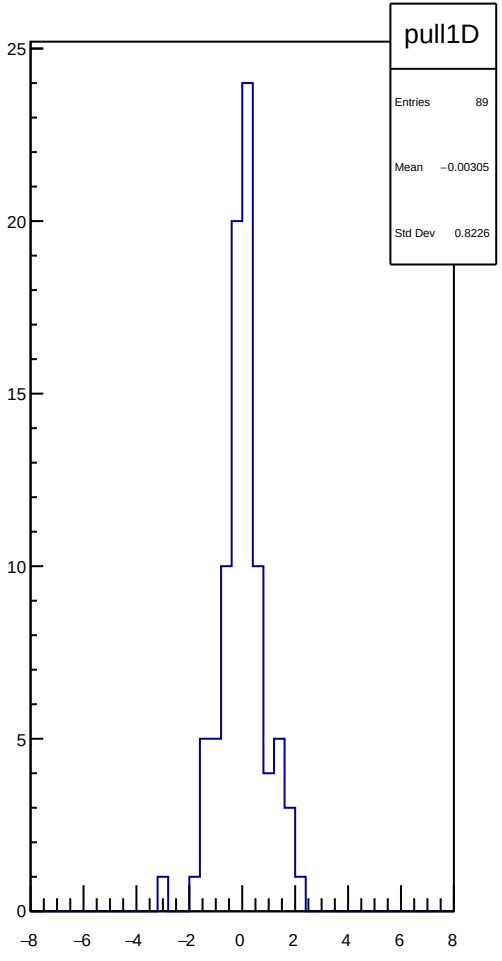

pull1D
Entries 89
Mean −0.006476
Std Dev 0.5838

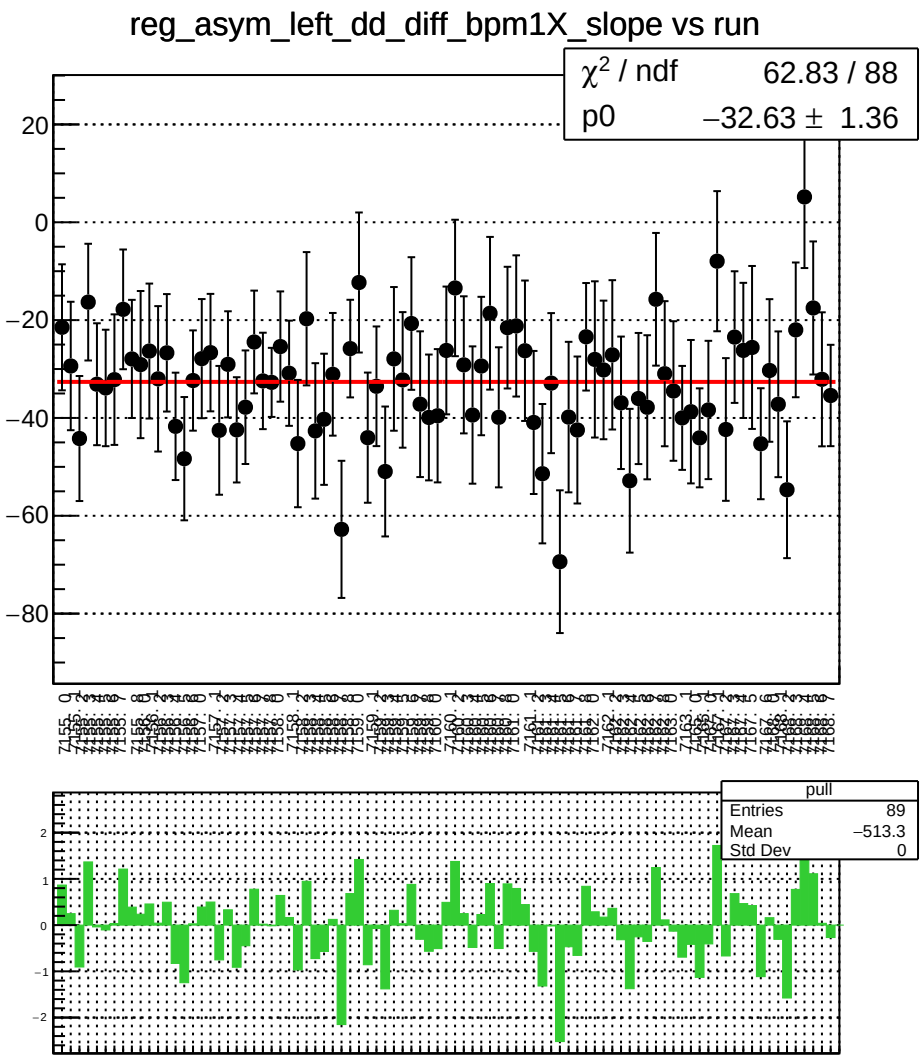

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 65.59 / 88
p0 5.953 ± 1.376
pull
Entries 89
Mean 904.8
Std Dev 0
pull1D
Entries 89
Mean 0.002093
Std Dev 0.8584

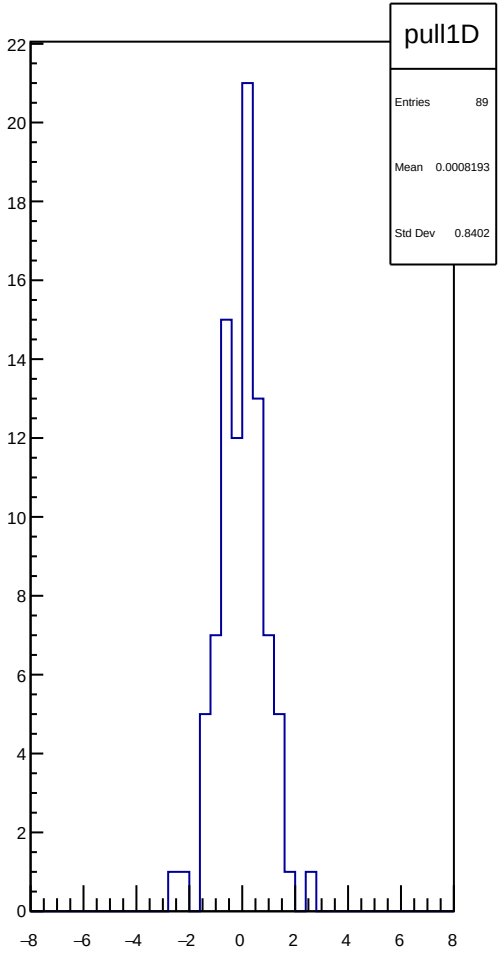

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 30.42 / 88
p0 13.36 ± 1.246
pull
Entries 89
Mean −3.702
Std Dev 0

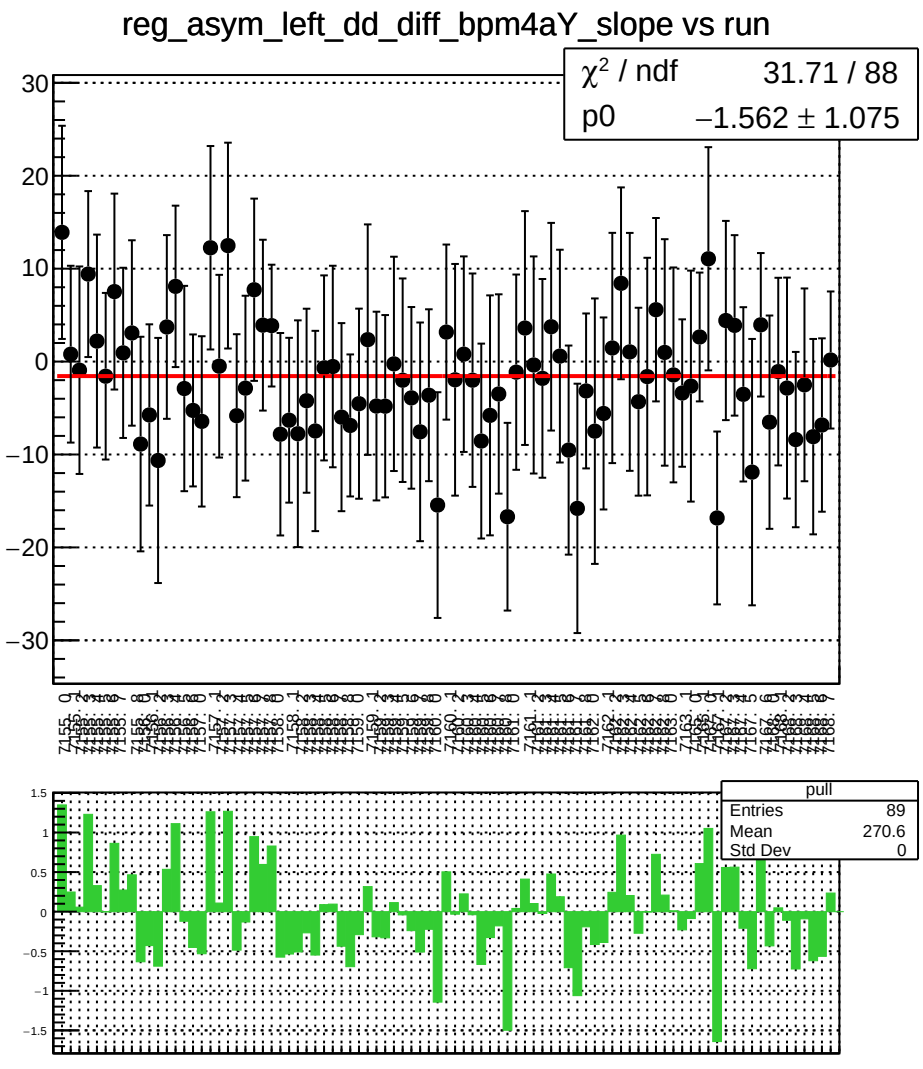

pull1D
Entries 89
Mean 0.006633
Std Dev 0.5846

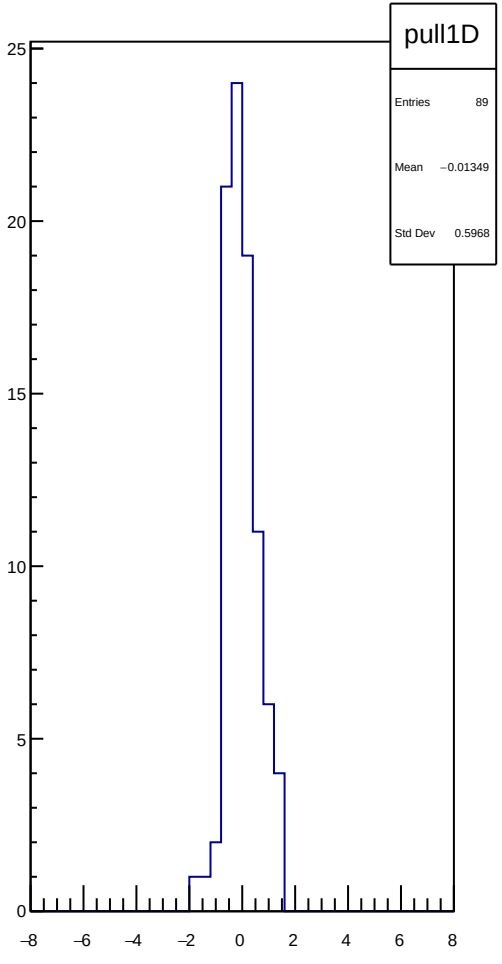

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 60.22 / 88
p0 −19.26 ± 0.04718
pull
Entries 89
Mean −238.1
Std Dev 0

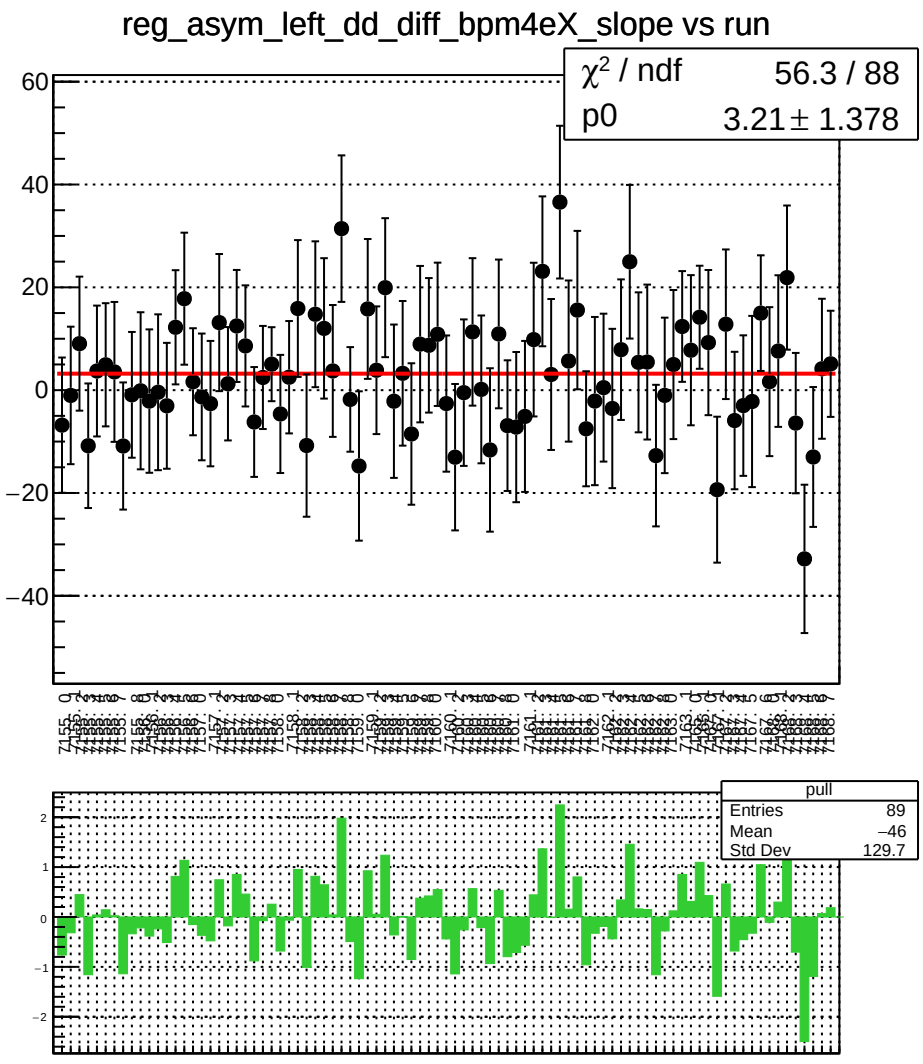

pull1D
Entries 89
Mean −0.00305
Std Dev 0.8226

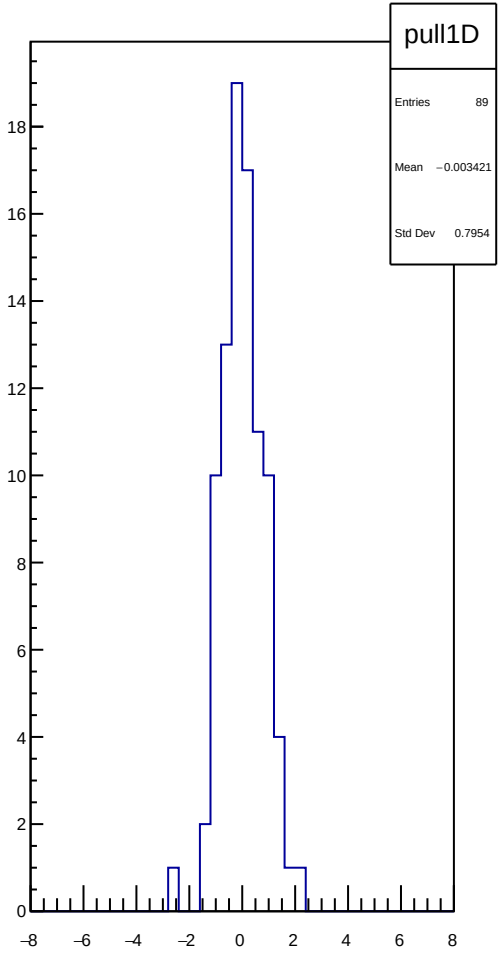

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 62.83 / 88
p0 −32.63 ± 1.36
pull
Entries 89
Mean −513.3
Std Dev 0

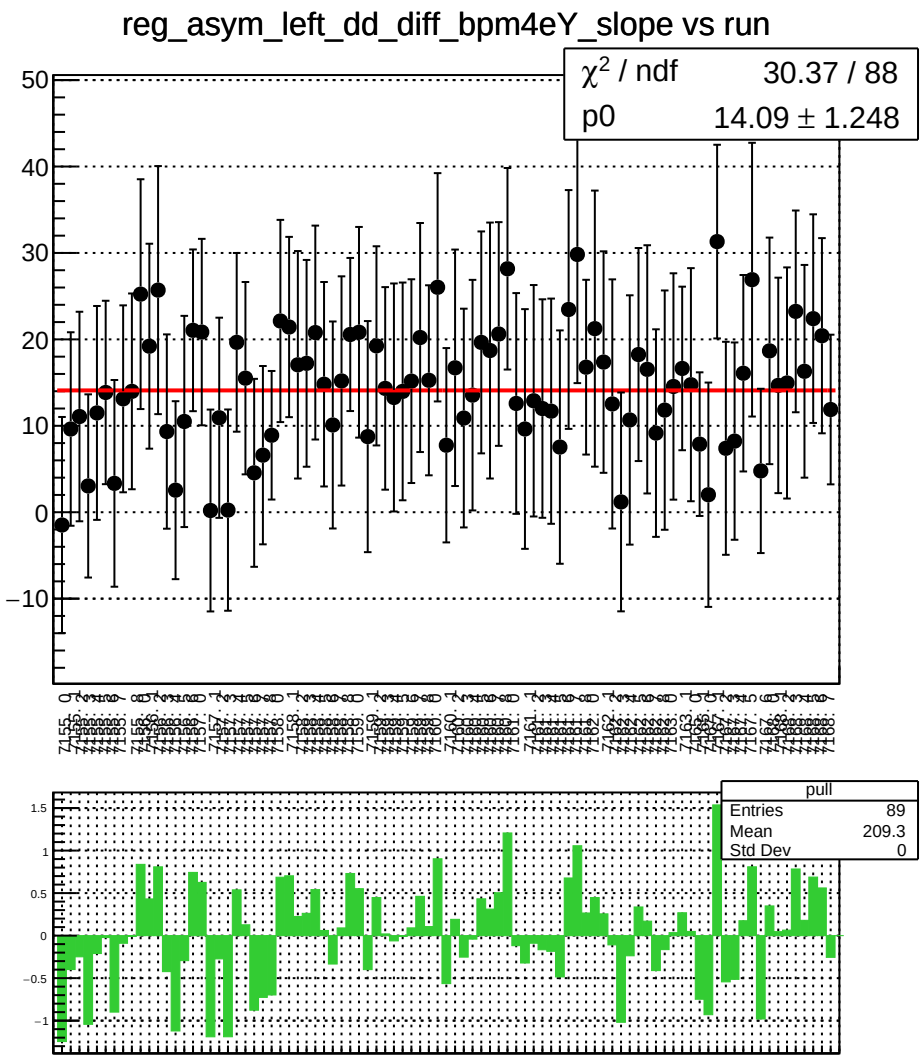

pull1D
Entries 89
Mean 0.0008193
Std Dev 0.8402

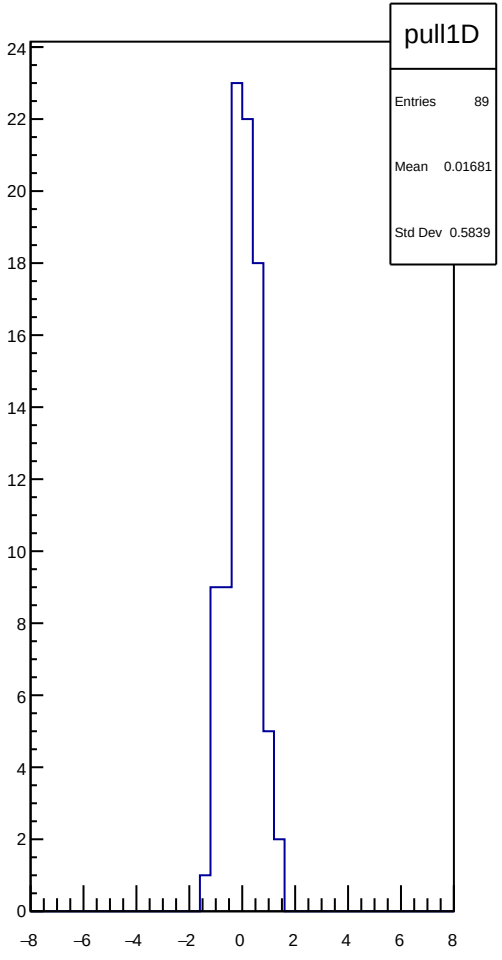

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.71 / 88
p0 −1.562 ± 1.075
pull
Entries 89
Mean 270.6
Std Dev 0

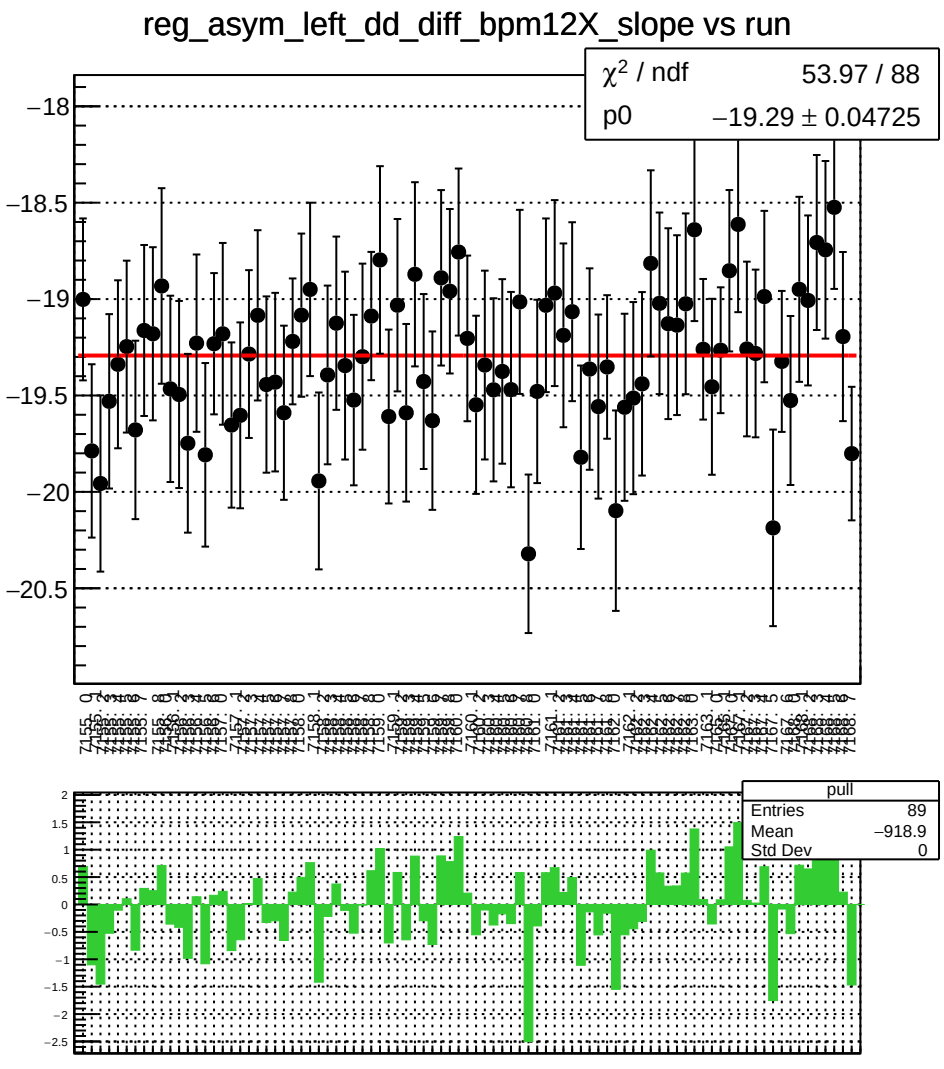

pull1D
Entries 89
Mean −0.01349
Std Dev 0.5968

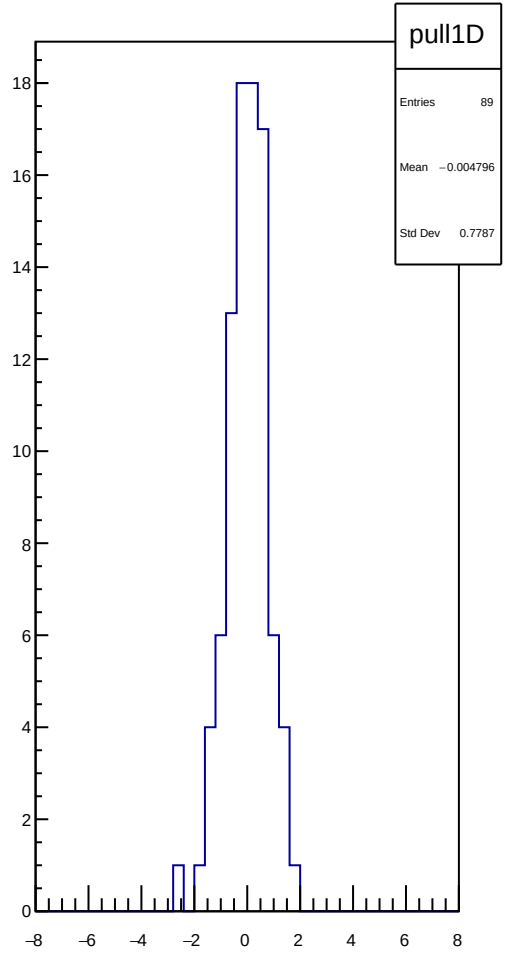

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.3 / 88
p0 3.21 ± 1.378
pull
Entries 89
Mean −46
Std Dev 129.7

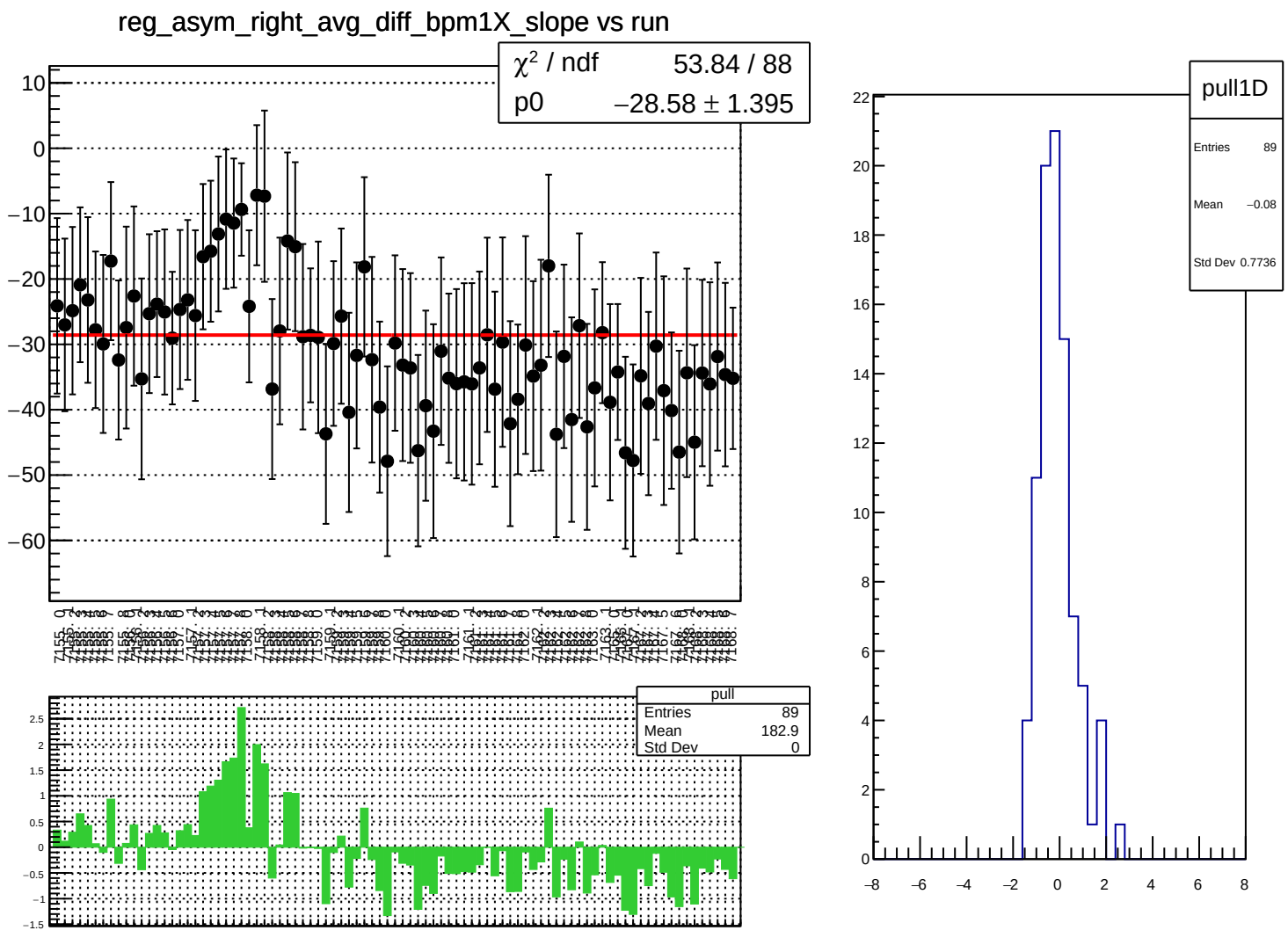

pull1D
Entries 89
Mean −0.003421
Std Dev 0.7954

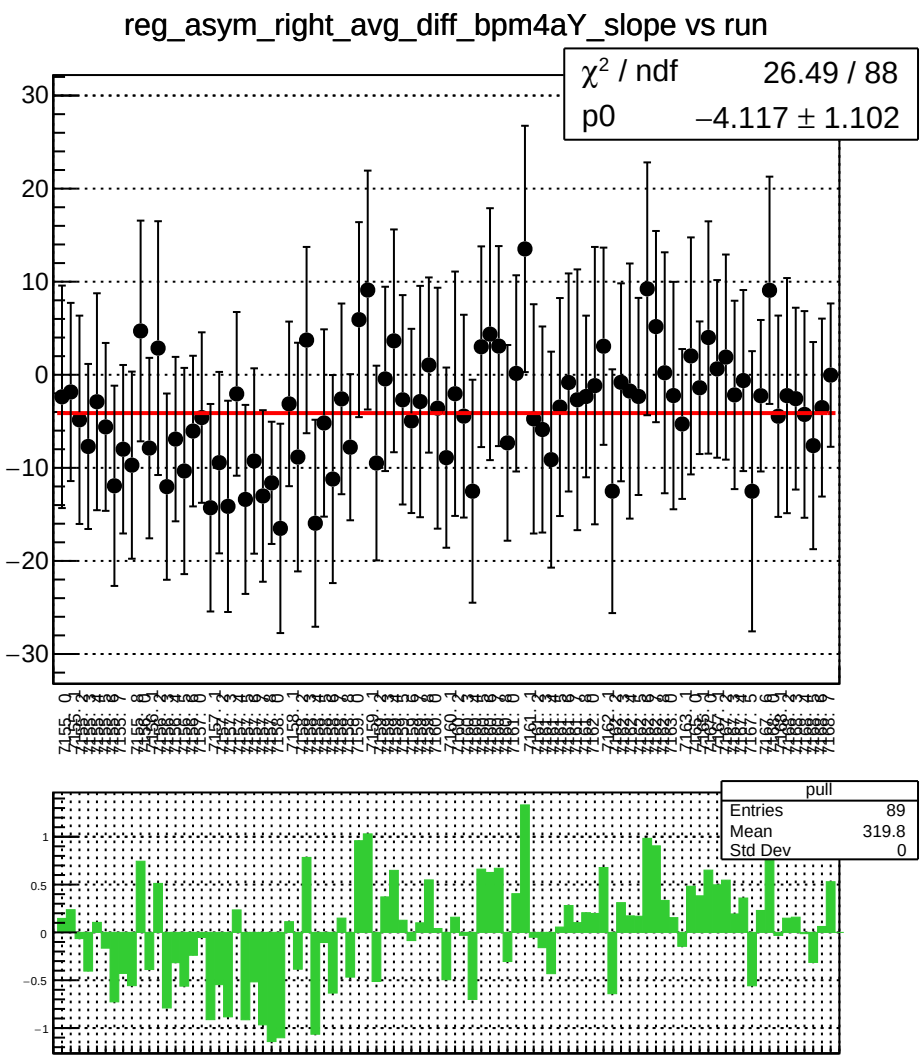

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 30.37 / 88
p0 14.09 ± 1.248
pull
Entries 89
Mean 209.3
Std Dev 0

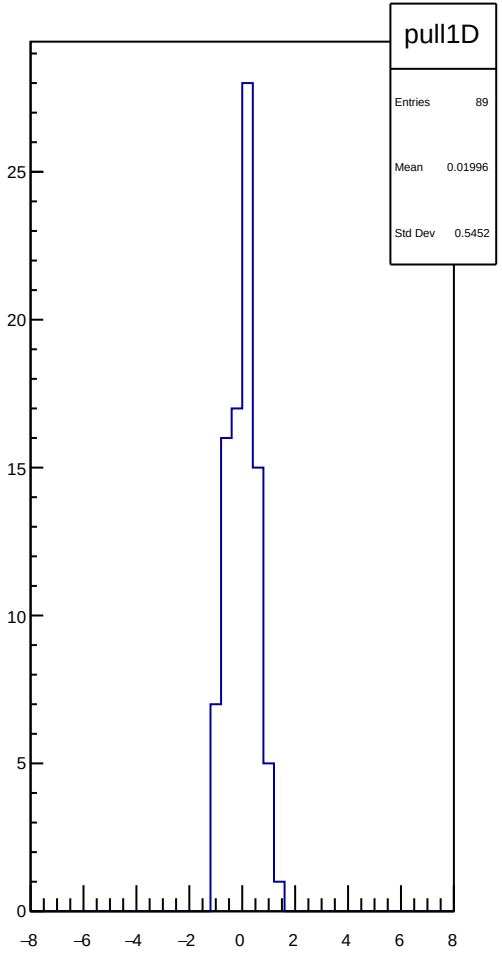

pull1D
Entries 89
Mean 0.01681
Std Dev 0.5839

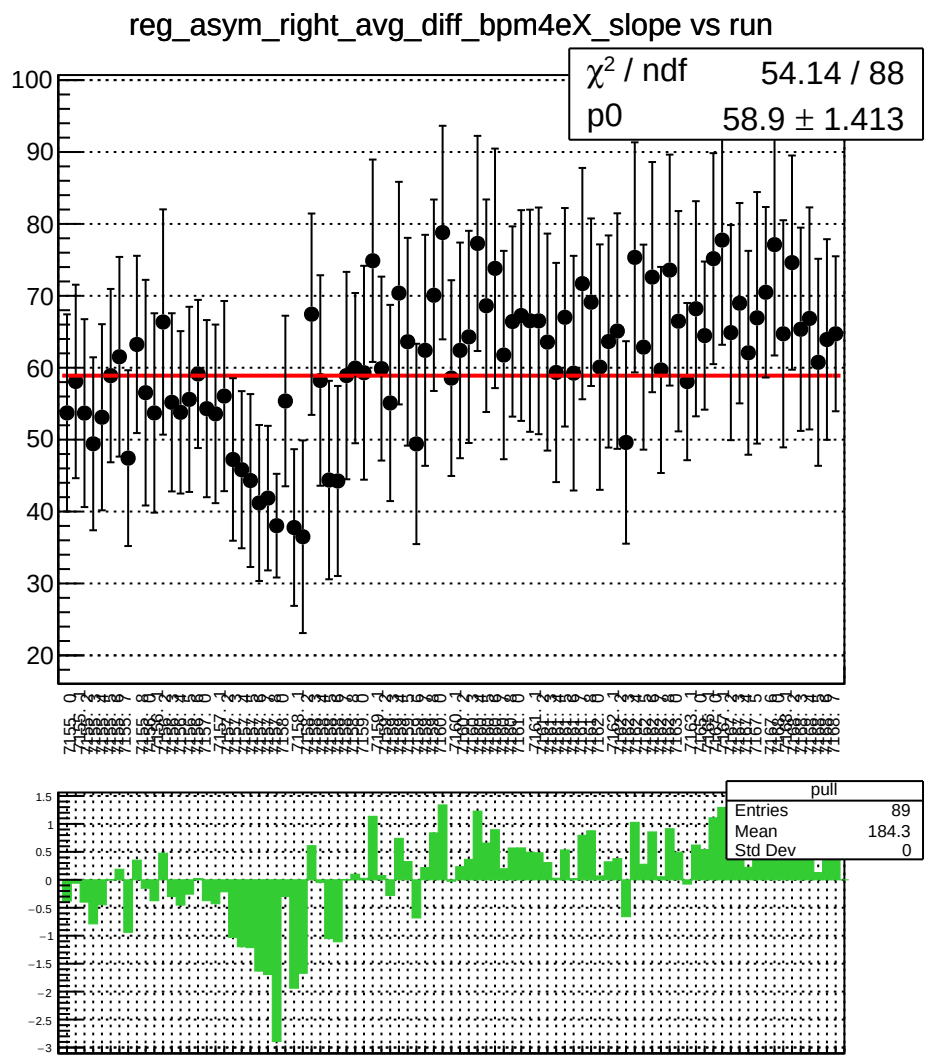

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 53.97 / 88
p0 −19.29 ± 0.04725
pull
Entries 89
Mean −918.9
Std Dev 0

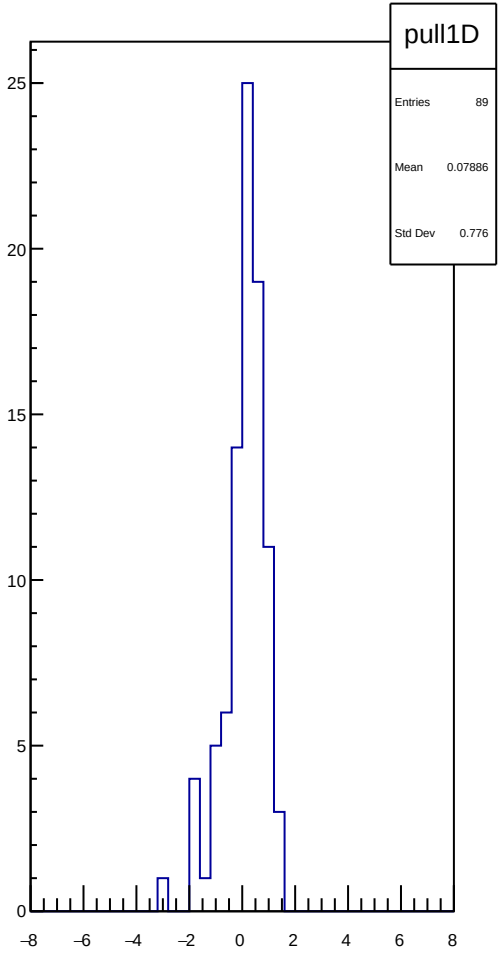

pull1D
Entries 89
Mean −0.004796
Std Dev 0.7787

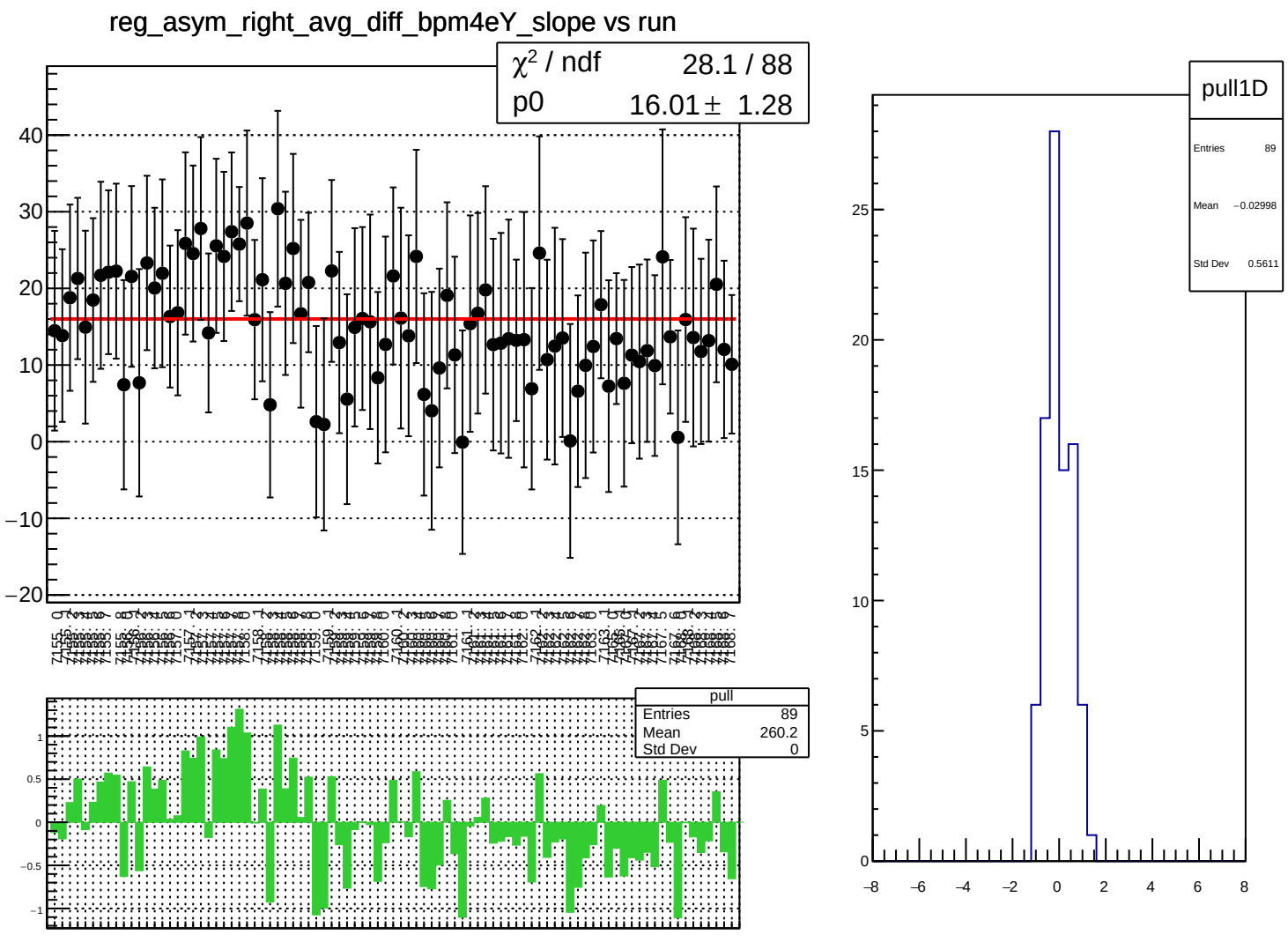

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 53.84 / 88
p0 −28.58 ± 1.395
pull
Entries 89
Mean 182.9
Std Dev 0
pull1D
Entries 89
Mean −0.08
Std Dev 0.7736

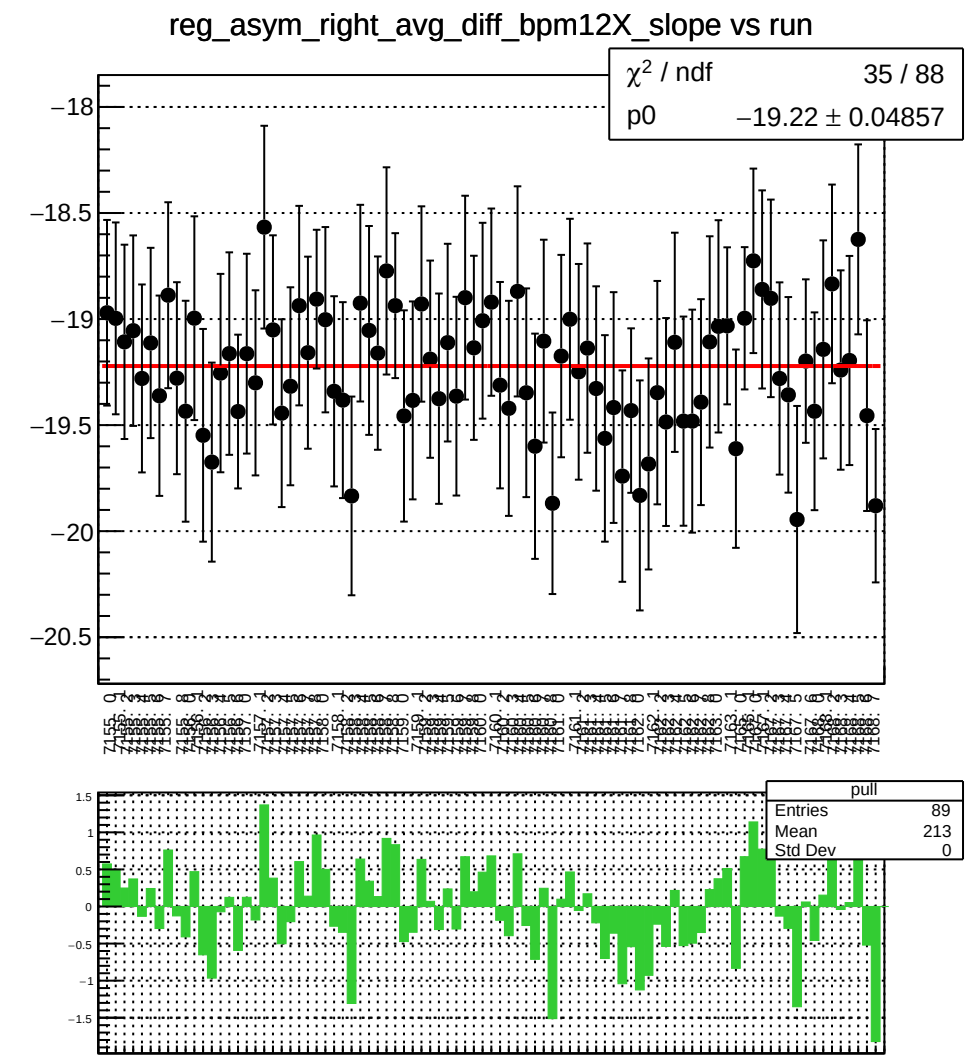

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.49 / 88
p0 −4.117 ± 1.102
pull
Entries 89
Mean 319.8
Std Dev 0

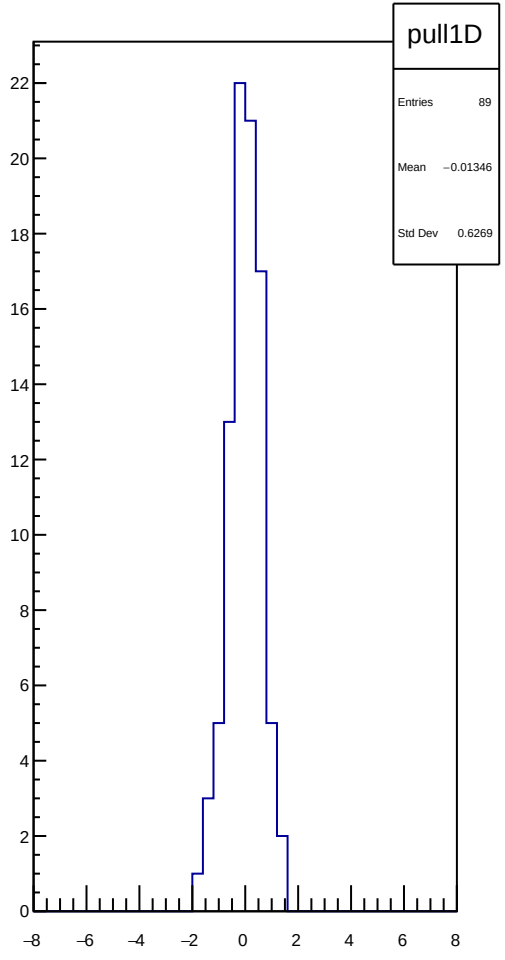

pull1D
Entries 89
Mean 0.01996
Std Dev 0.5452

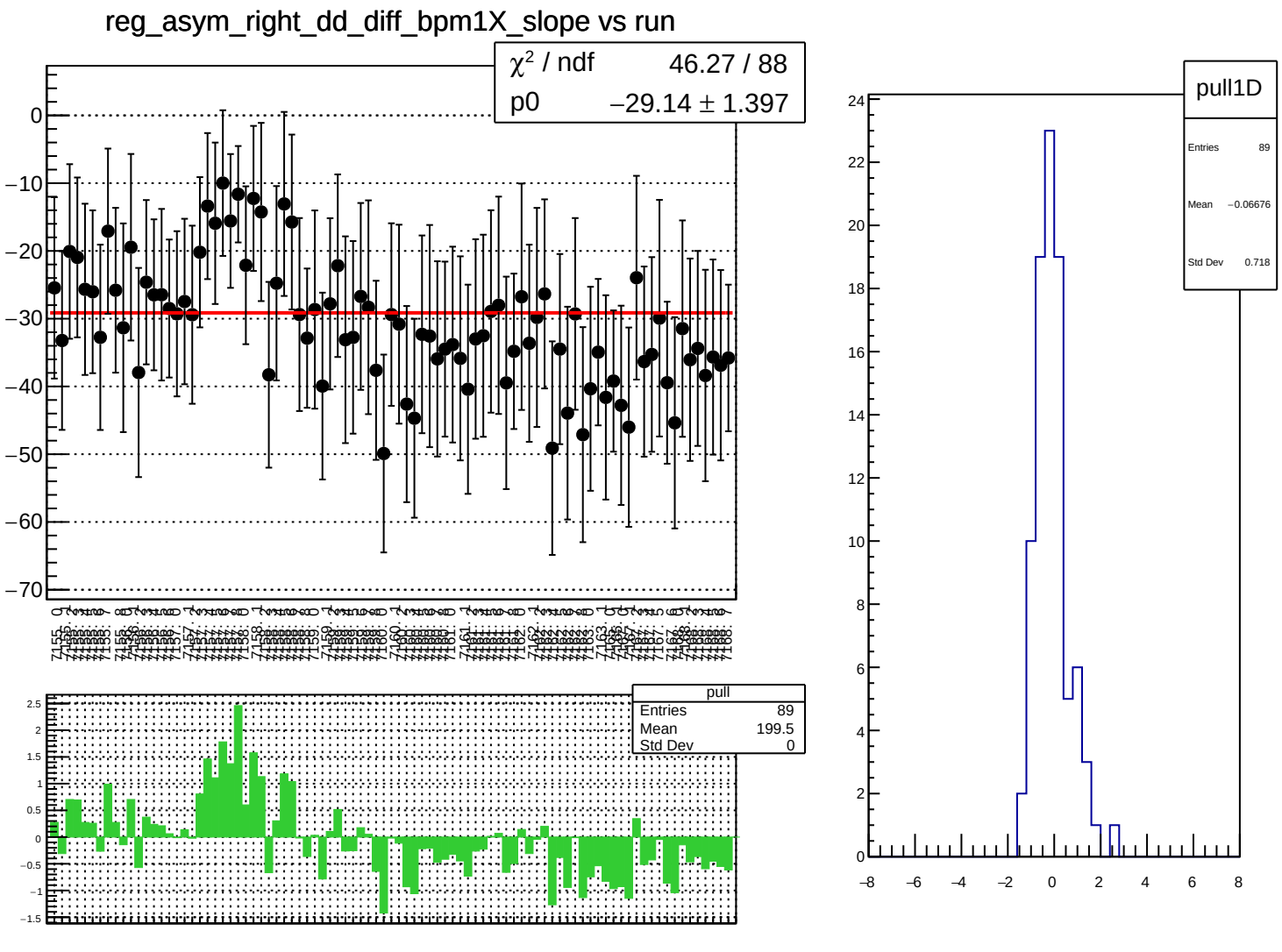

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.14 / 88
p0 58.9 ± 1.413
pull
Entries 89
Mean 184.3
Std Dev 0

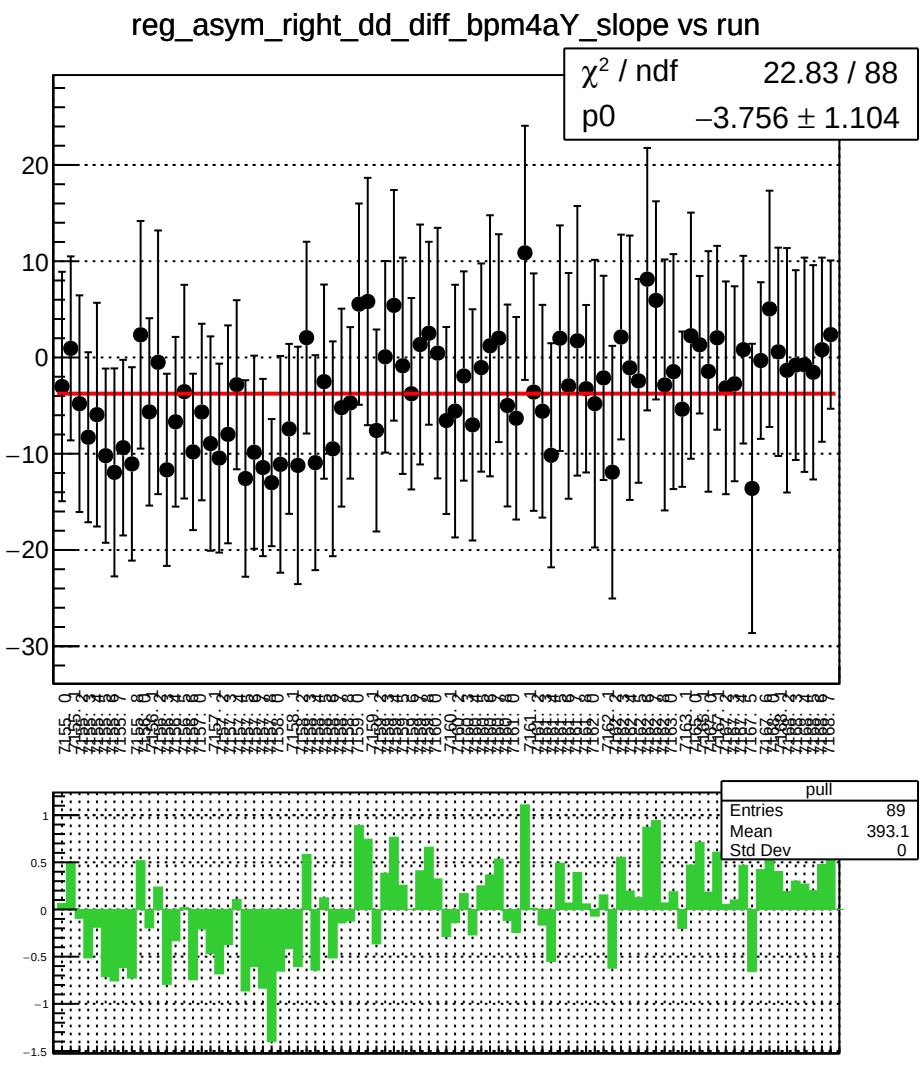

pull1D
Entries 89
Mean 0.07886
Std Dev 0.776

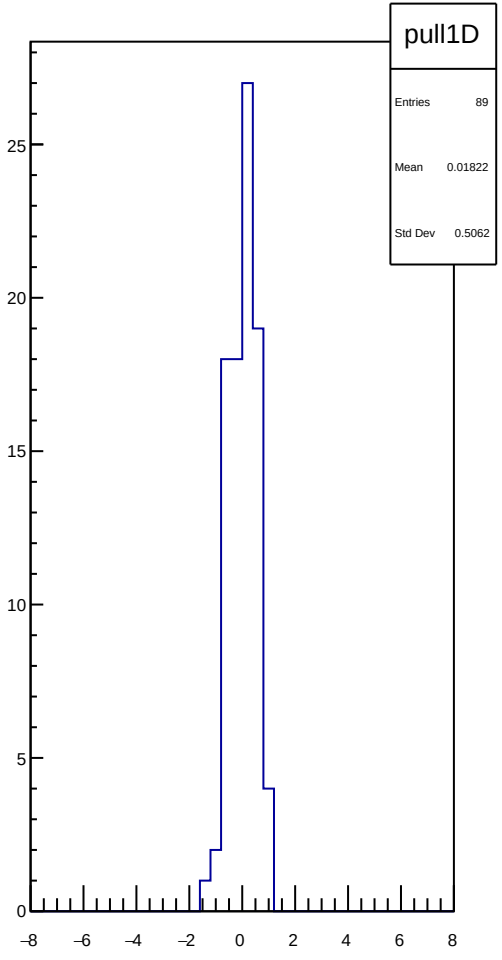

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.1 / 88
p0 16.01 ± 1.28
pull
Entries 89
Mean 260.2
Std Dev 0
pull1D
Entries 89
Mean −0.02998
Std Dev 0.5611

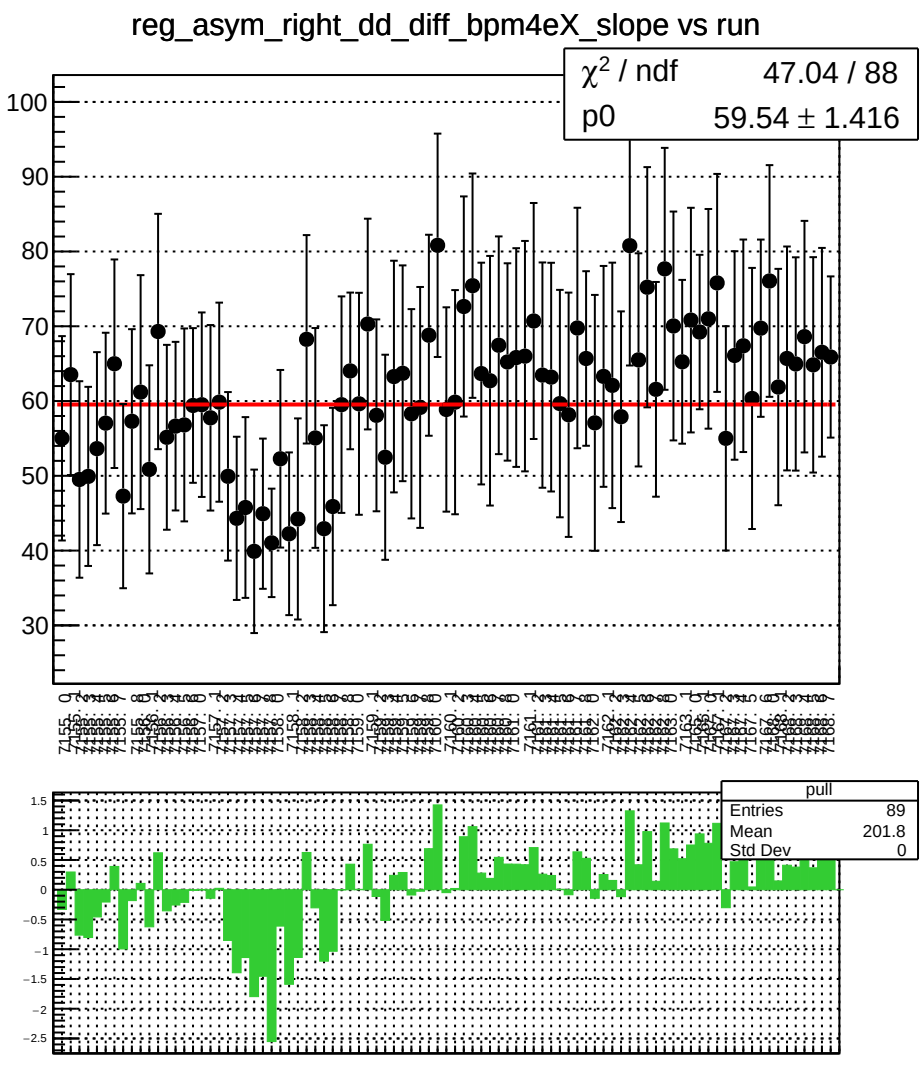

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 35 / 88
p0 −19.22 ± 0.04857
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 89
Mean 213
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

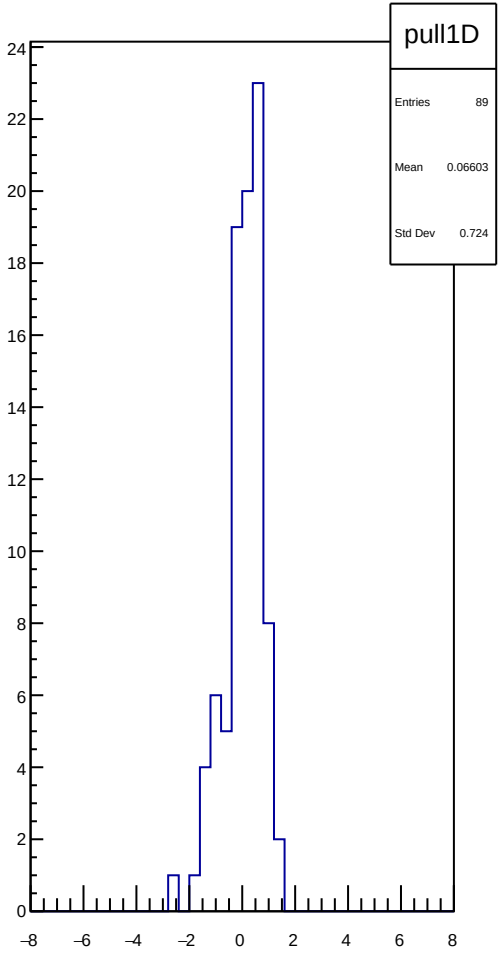

pull1D
Entries 89
Mean −0.01346
Std Dev 0.6269
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

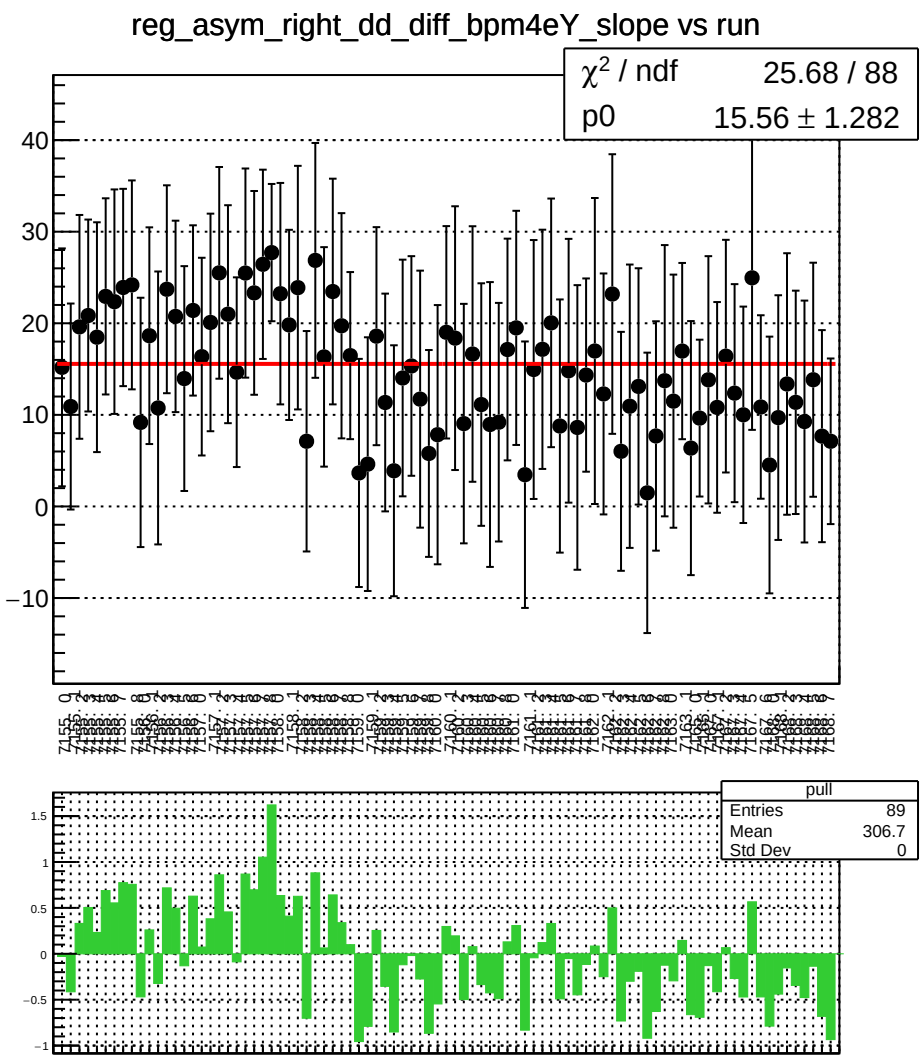

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 46.27 / 88
p0 −29.14 ± 1.397
pull
Entries 89
Mean 199.5
Std Dev 0
pull1D
Entries 89
Mean −0.06676
Std Dev 0.718

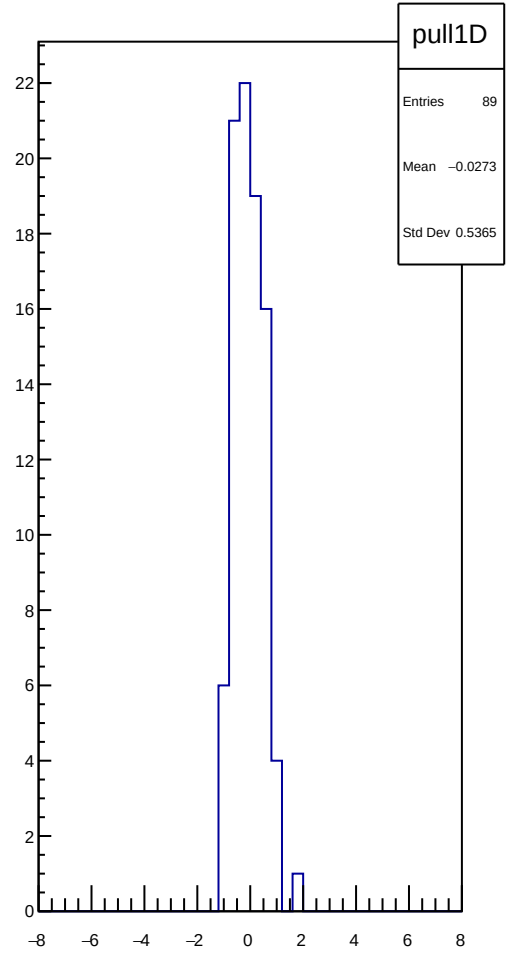

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 22.83 / 88
p0 −3.756 ± 1.104
pull
Entries 89
Mean 393.1
Std Dev 0

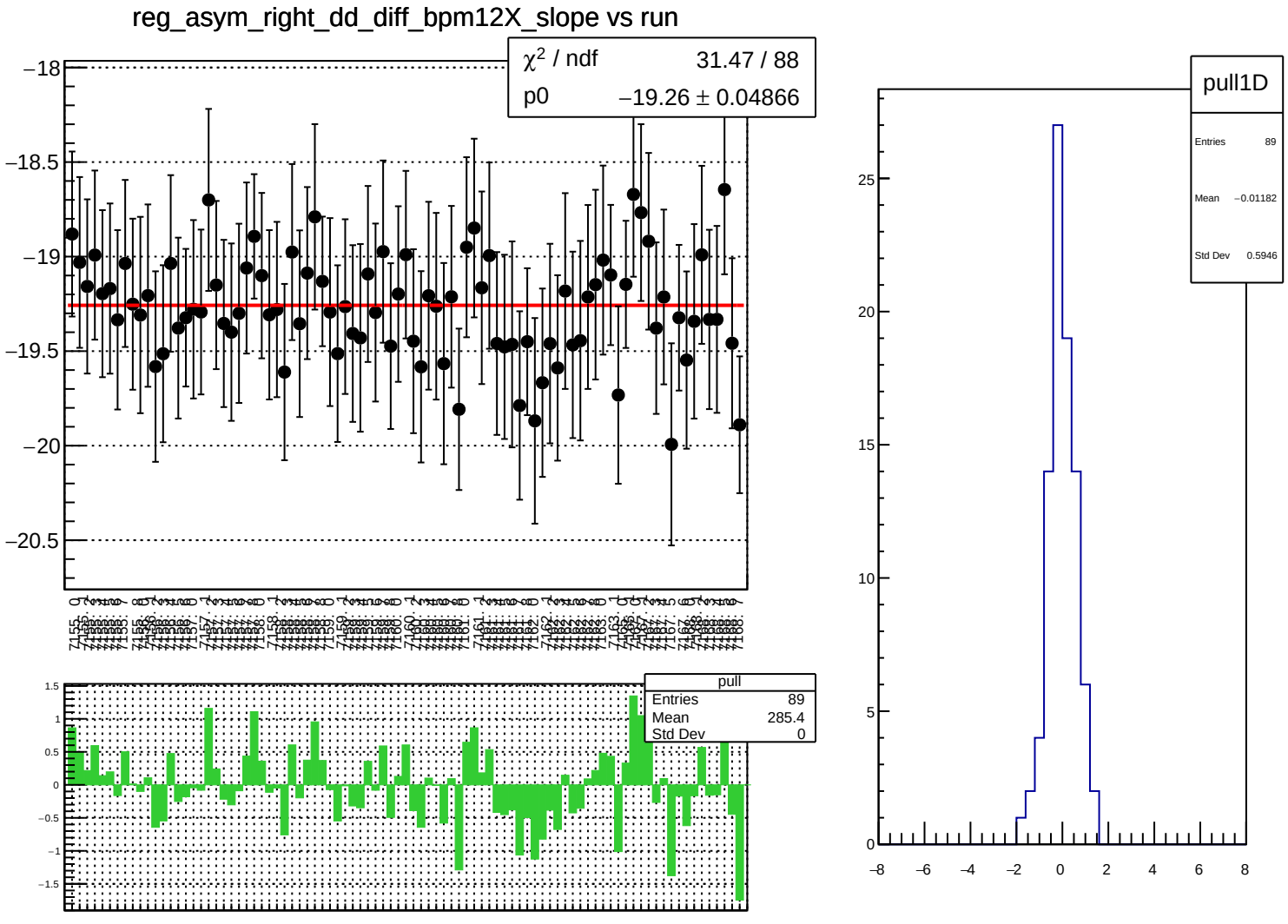

pull1D
Entries 89
Mean 0.01822
Std Dev 0.5062

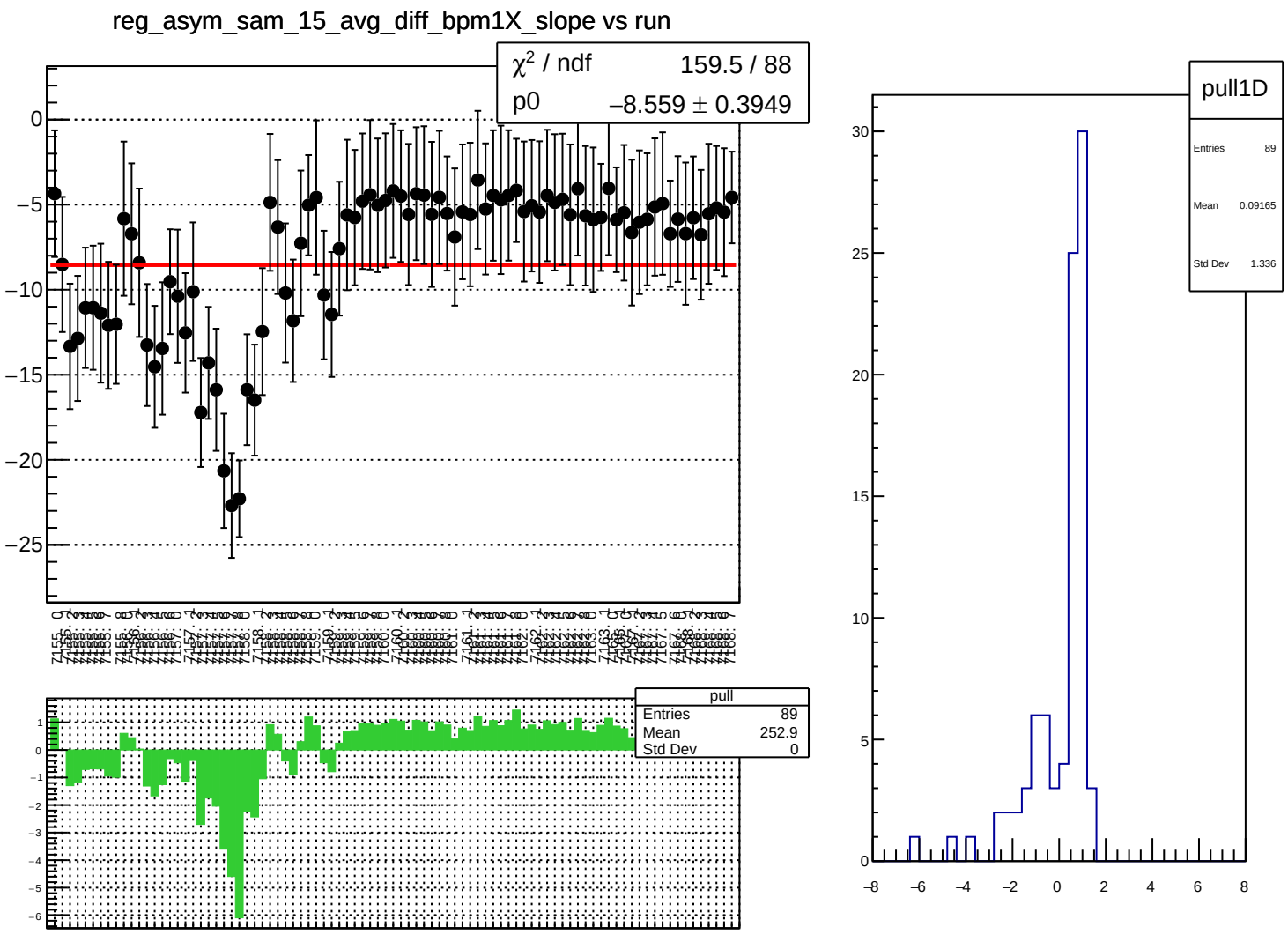

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.04 / 88
p0 59.54 ± 1.416
pull
Entries 89
Mean 201.8
Std Dev 0

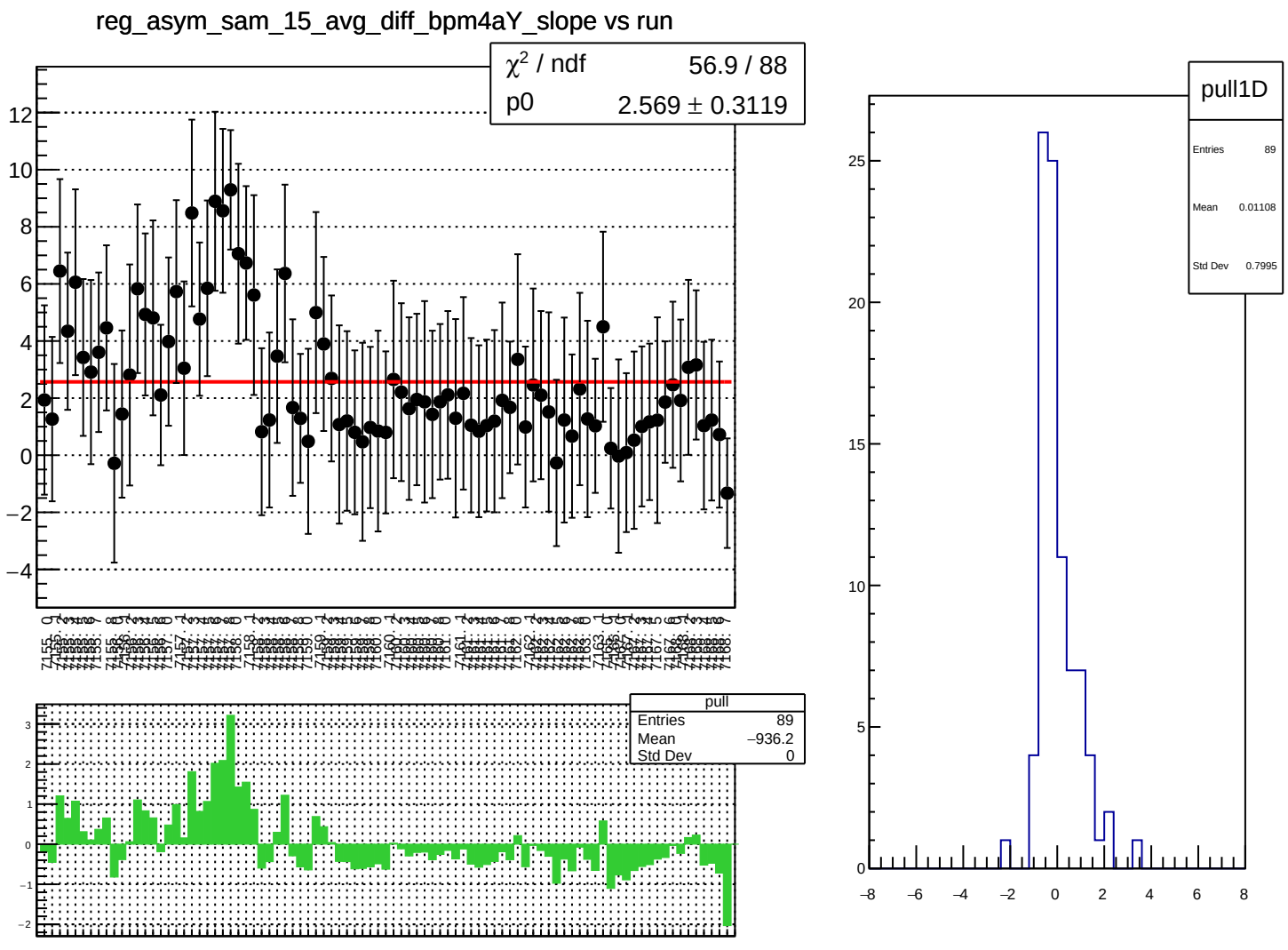

pull1D
Entries 89
Mean 0.06603
Std Dev 0.724

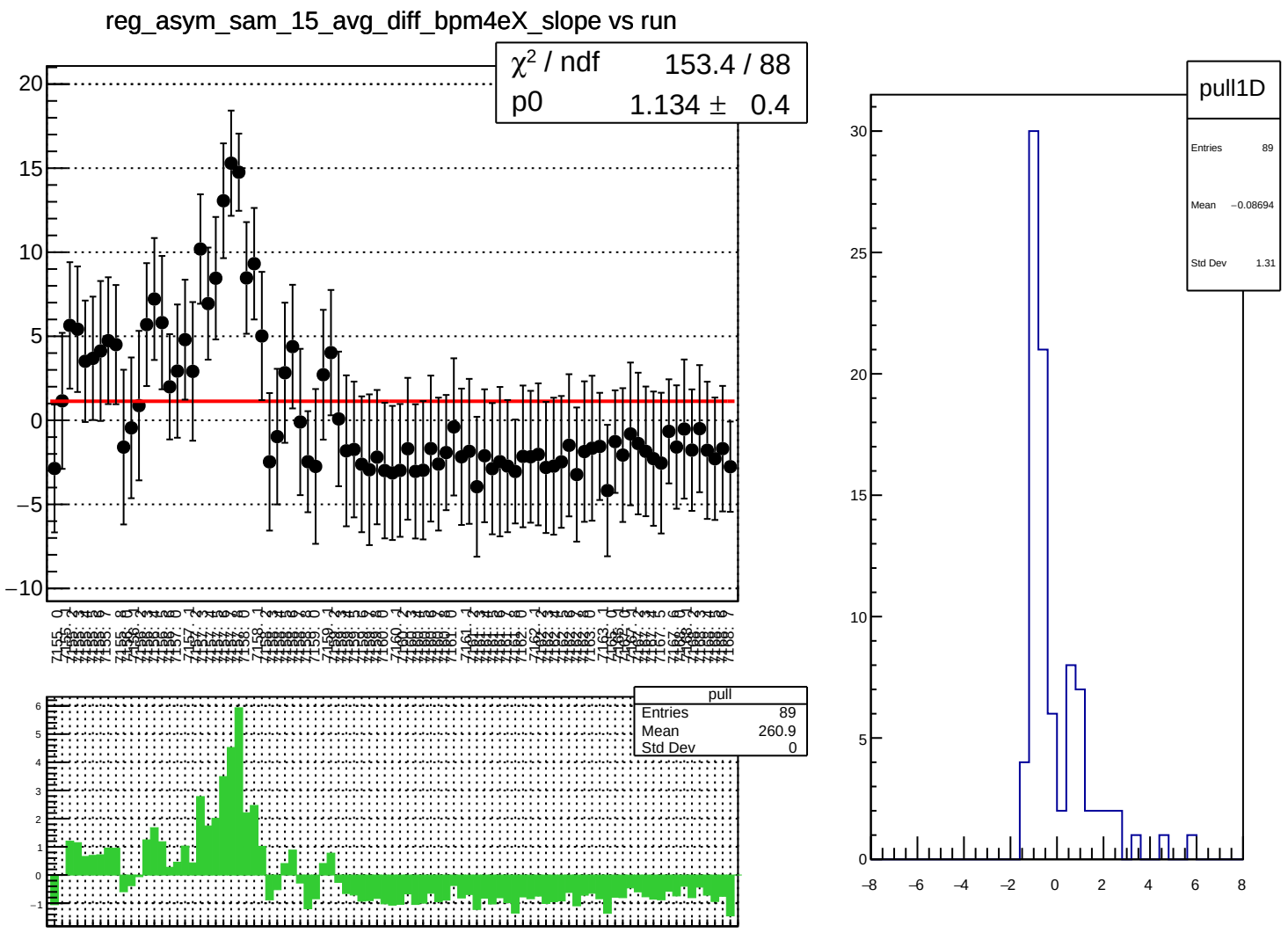

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 25.68 / 88
p0 15.56 ± 1.282
pull
Entries 89
Mean 306.7
Std Dev 0

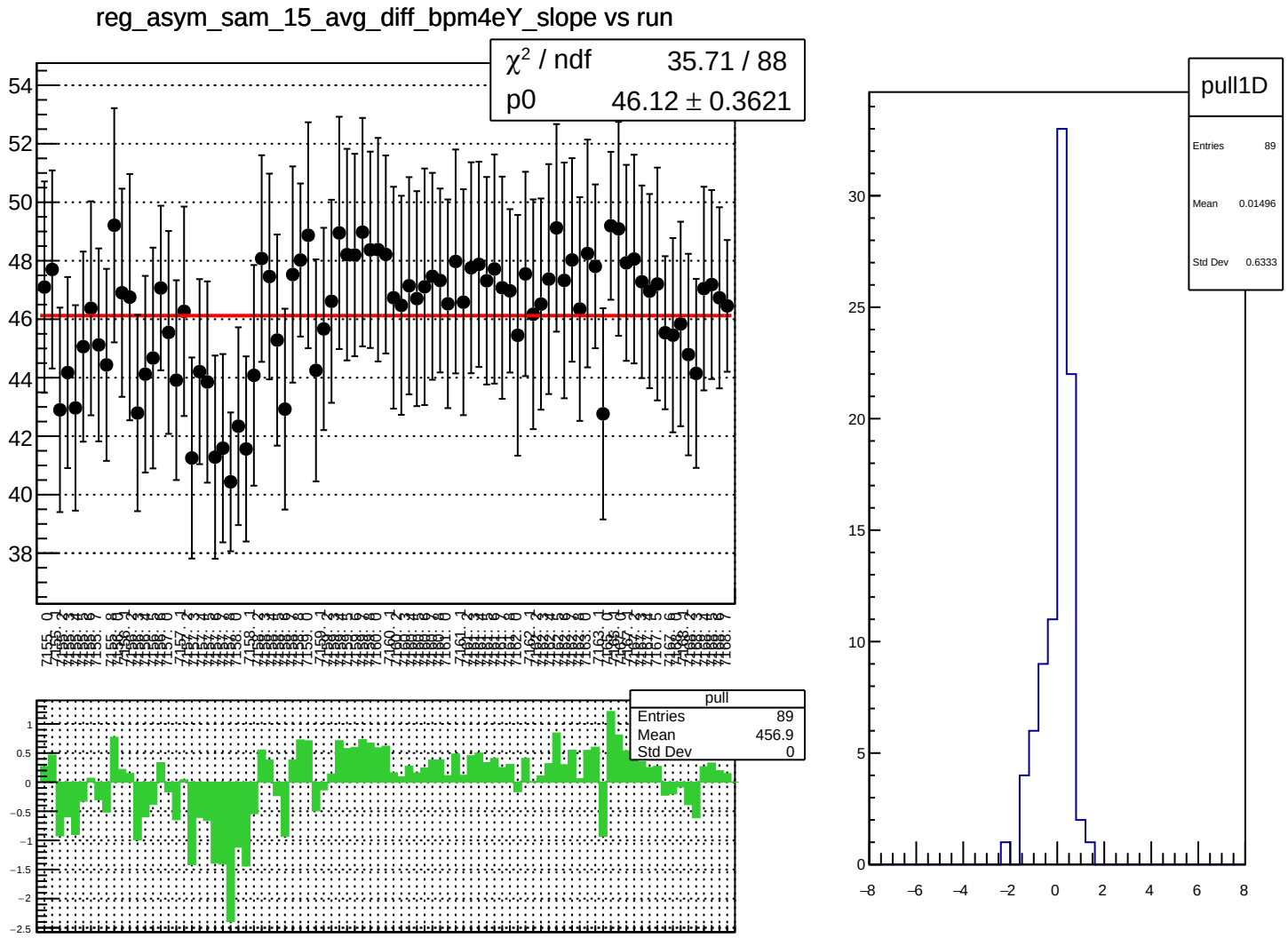

pull1D
Entries 89
Mean −0.0273
Std Dev 0.5365

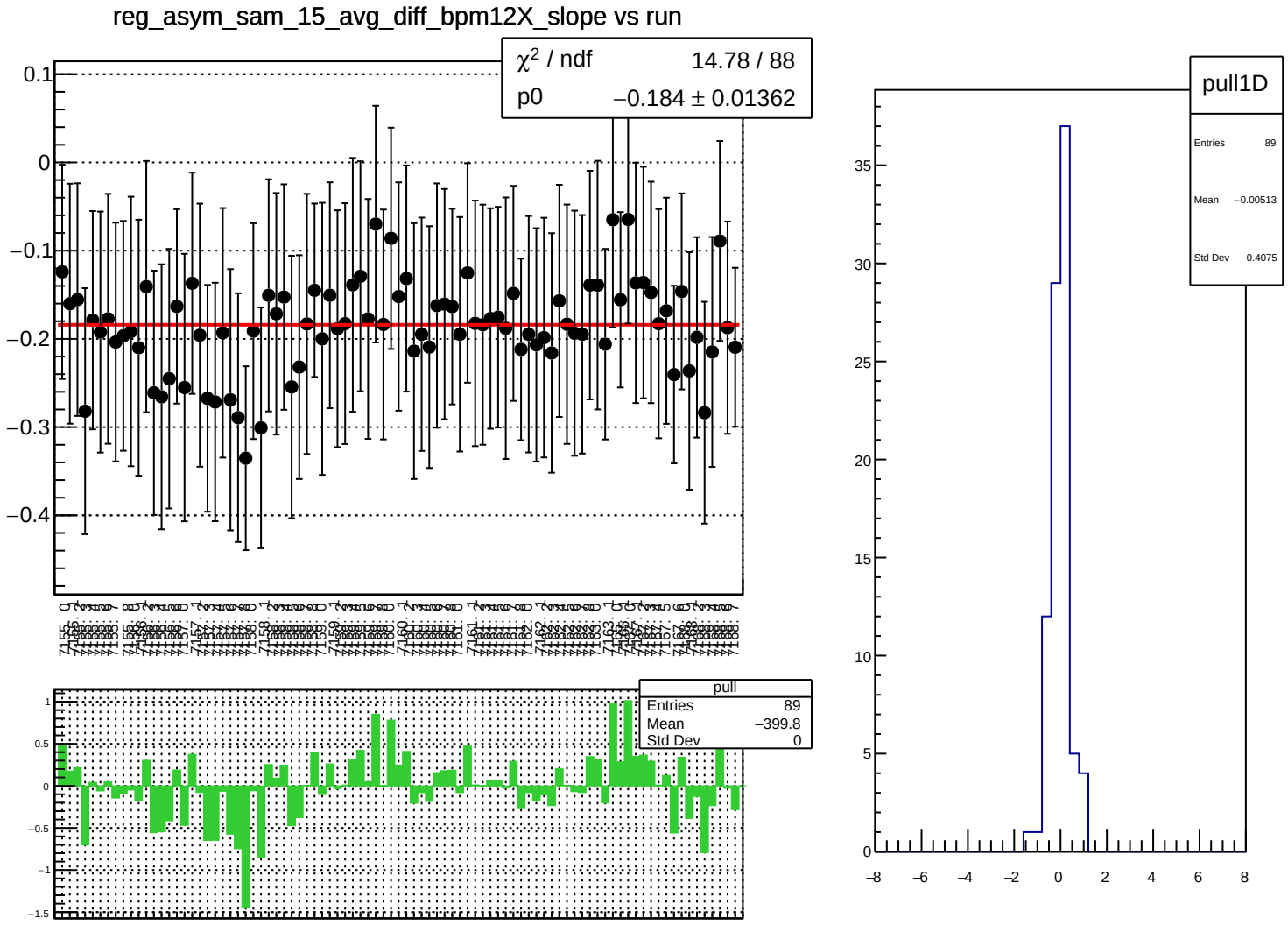

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 31.47 / 88
p0 −19.26 ± 0.04866
−18
−18.5
−19
−19.5
−20
−20.5
pull
Entries 89
Mean 285.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 89
Mean −0.01182
Std Dev 0.5946
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

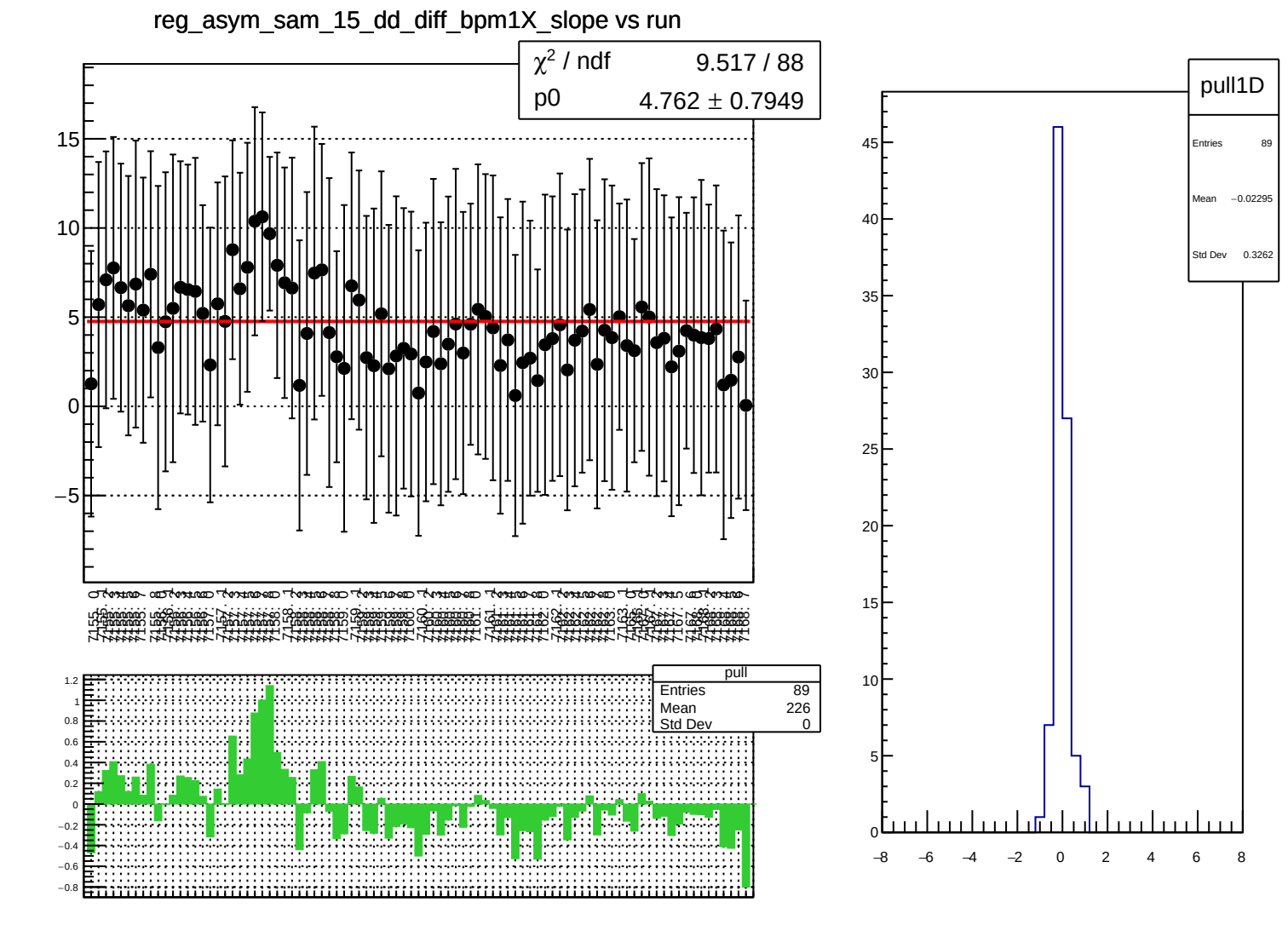

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 159.5 / 88
p0 −8.559 ± 0.3949
pull
Entries 89
Mean 252.9
Std Dev 0
pull1D
Entries 89
Mean 0.09165
Std Dev 1.336

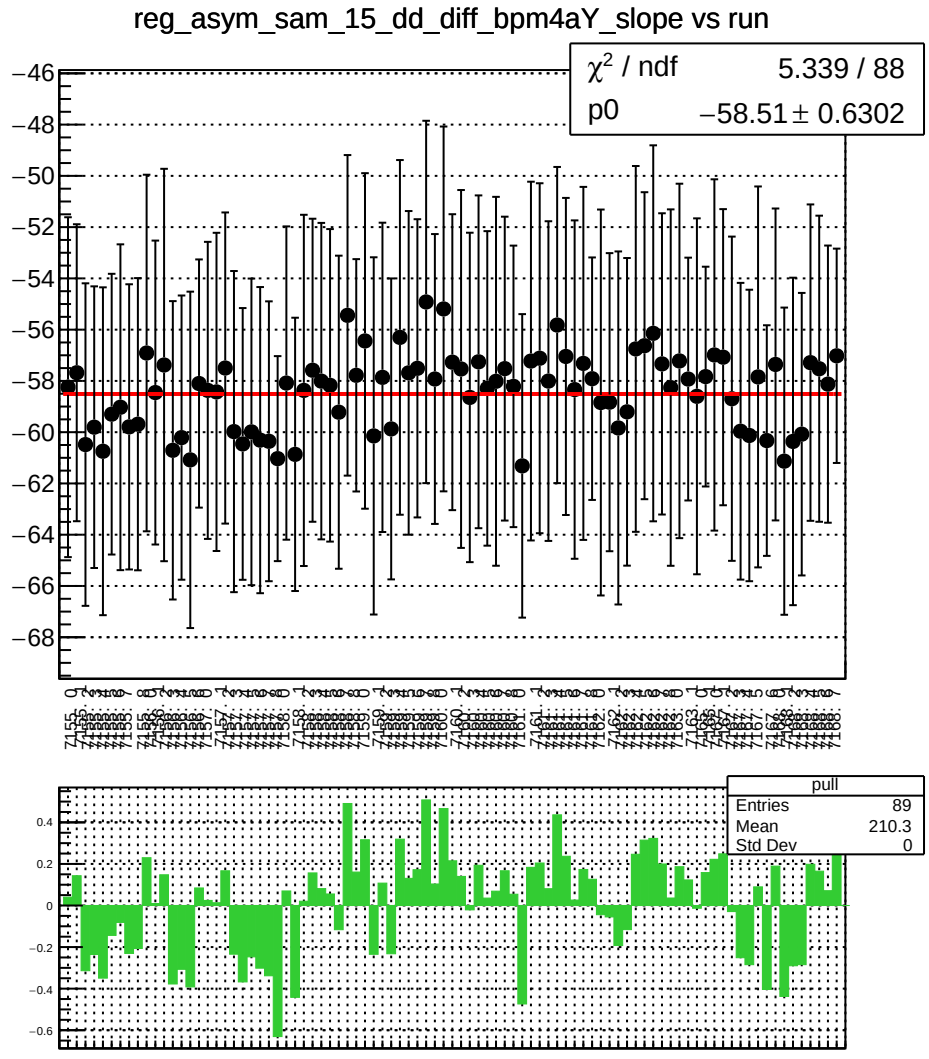

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 56.9 / 88
p0 2.569 ± 0.3119
pull
Entries 89
Mean −936.2
Std Dev 0
pull1D
Entries 89
Mean 0.01108
Std Dev 0.7995

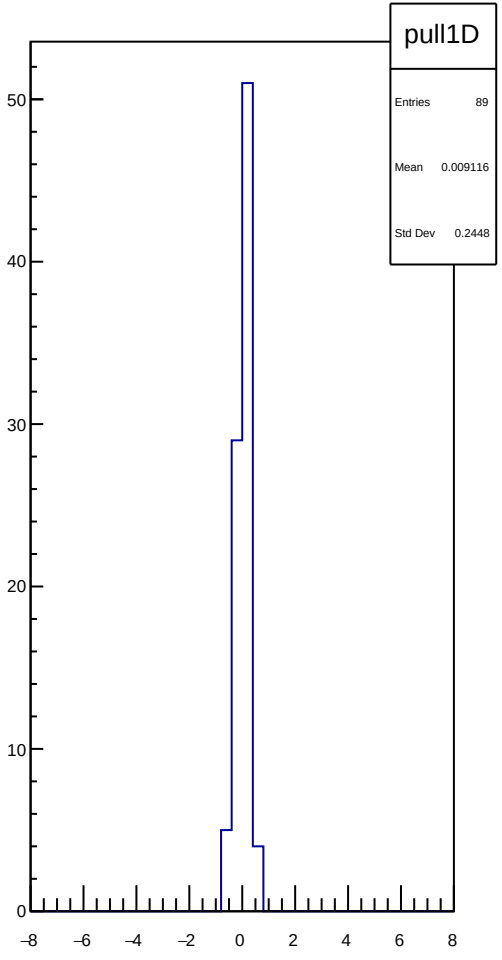

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 153.4 / 88
p0 1.134 ± 0.4
pull
Entries 89
Mean 260.9
Std Dev 0
pull1D
Entries 89
Mean −0.08694
Std Dev 1.31

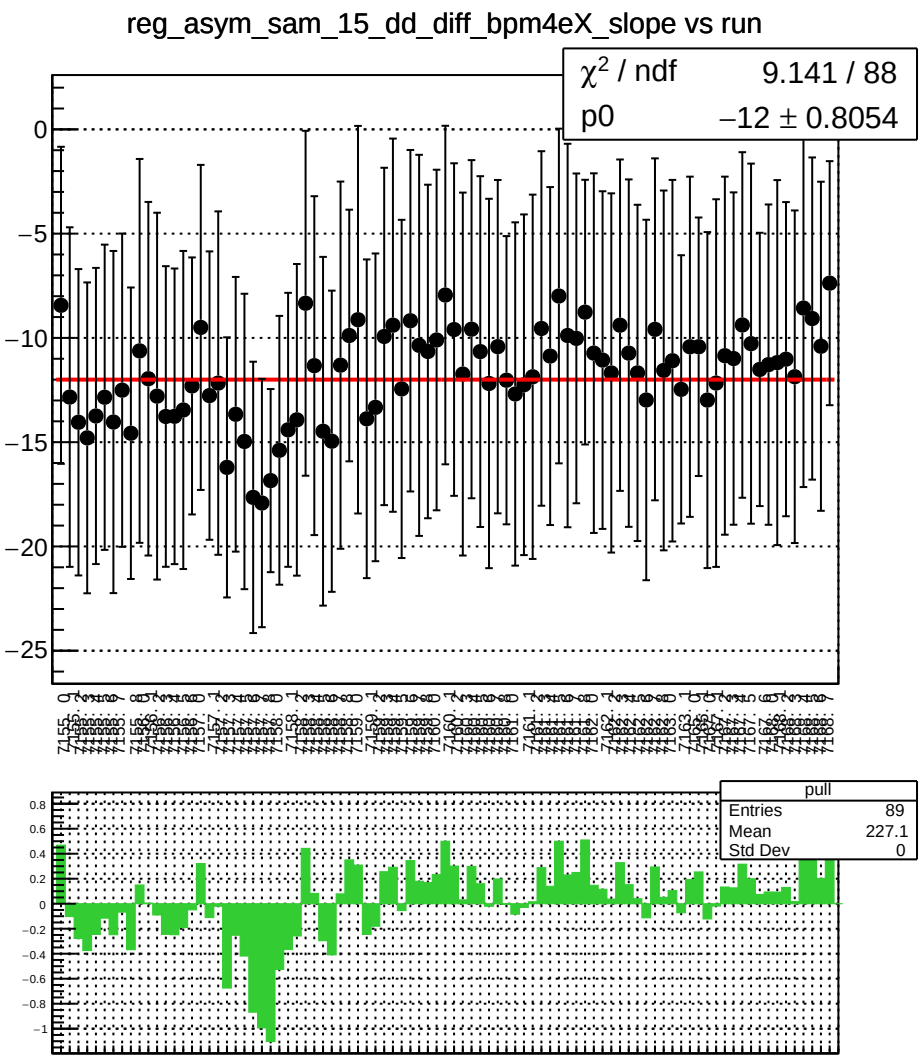

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.71 / 88
p0 46.12 ± 0.3621
pull
Entries 89
Mean 456.9
Std Dev 0
pull1D
Entries 89
Mean 0.01496
Std Dev 0.6333

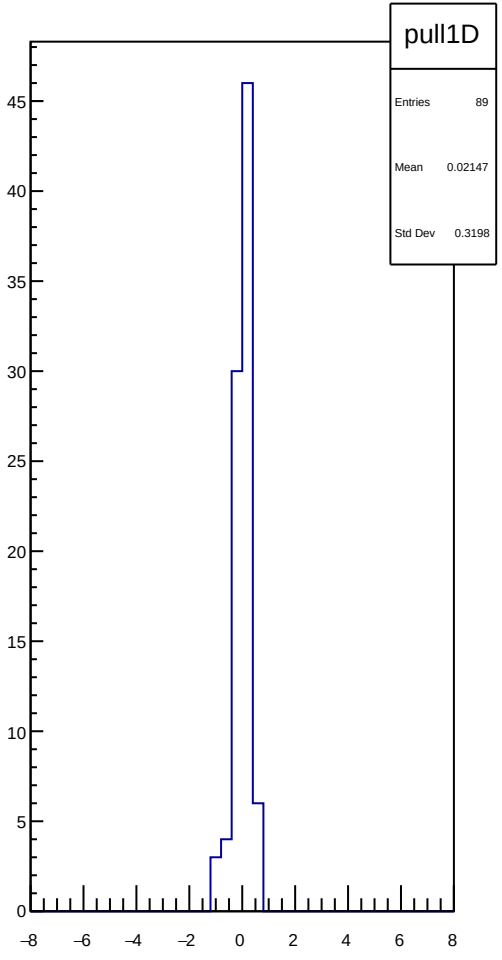

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 14.78 / 88
p0 −0.184 ± 0.01362
pull
Entries 89
Mean −399.8
Std Dev 0
pull1D
Entries 89
Mean −0.00513
Std Dev 0.4075

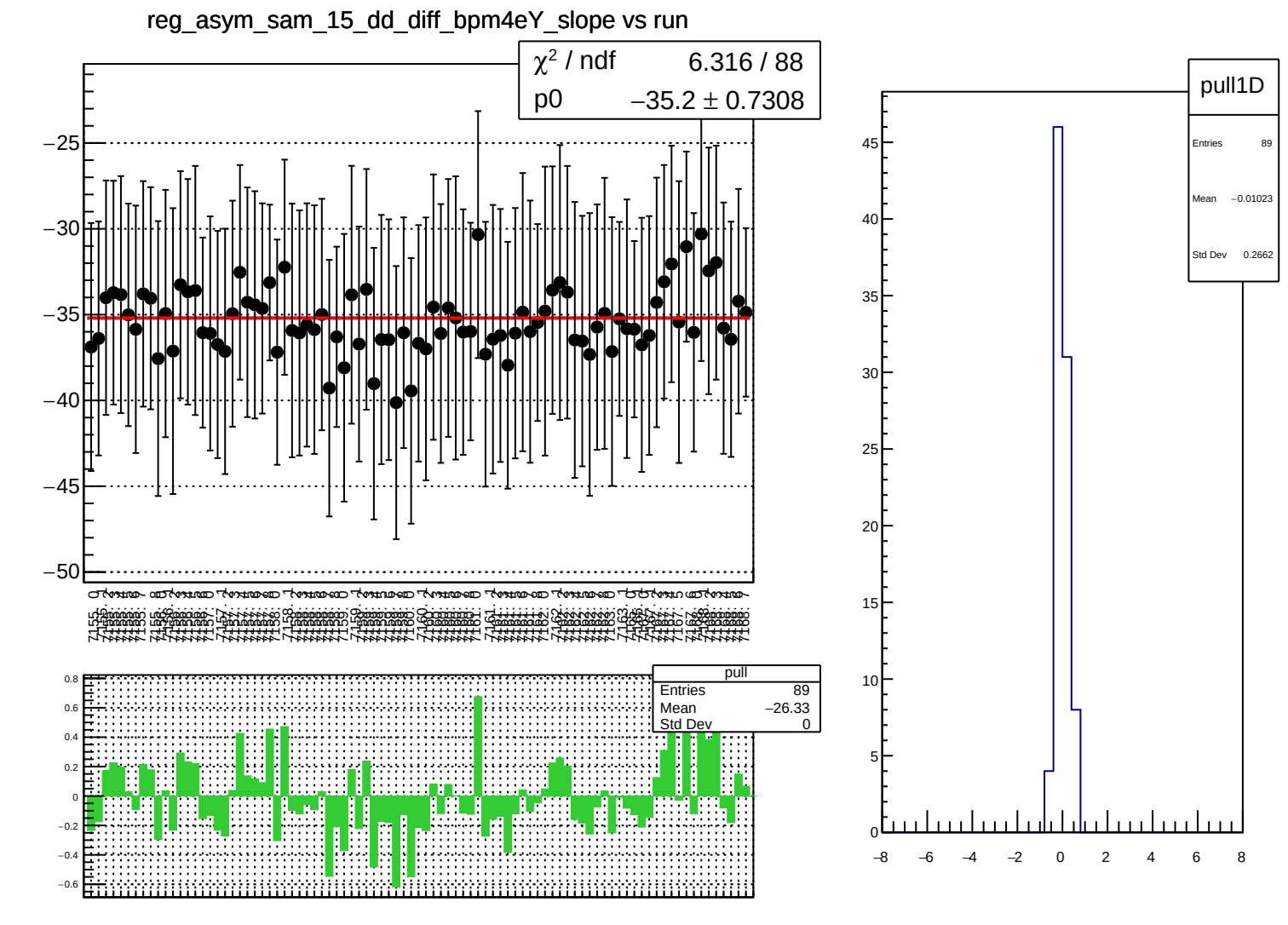

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 9.517 / 88
p0 4.762 ± 0.7949
pull
Entries 89
Mean 226
Std Dev 0
pull1D
Entries 89
Mean −0.02295
Std Dev 0.3262

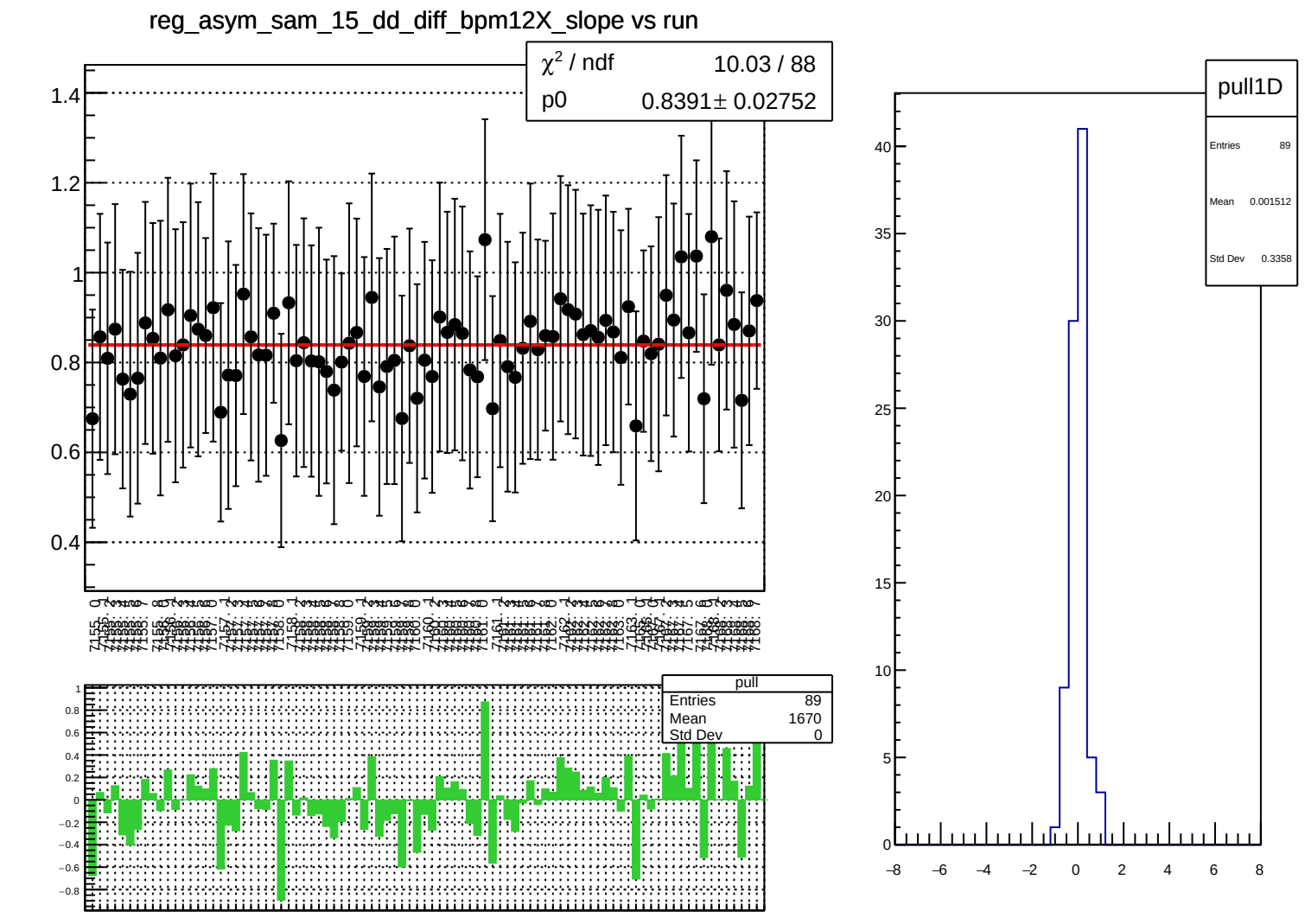

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.339 / 88
p0 −58.51 ± 0.6302
pull
Entries 89
Mean 210.3
Std Dev 0

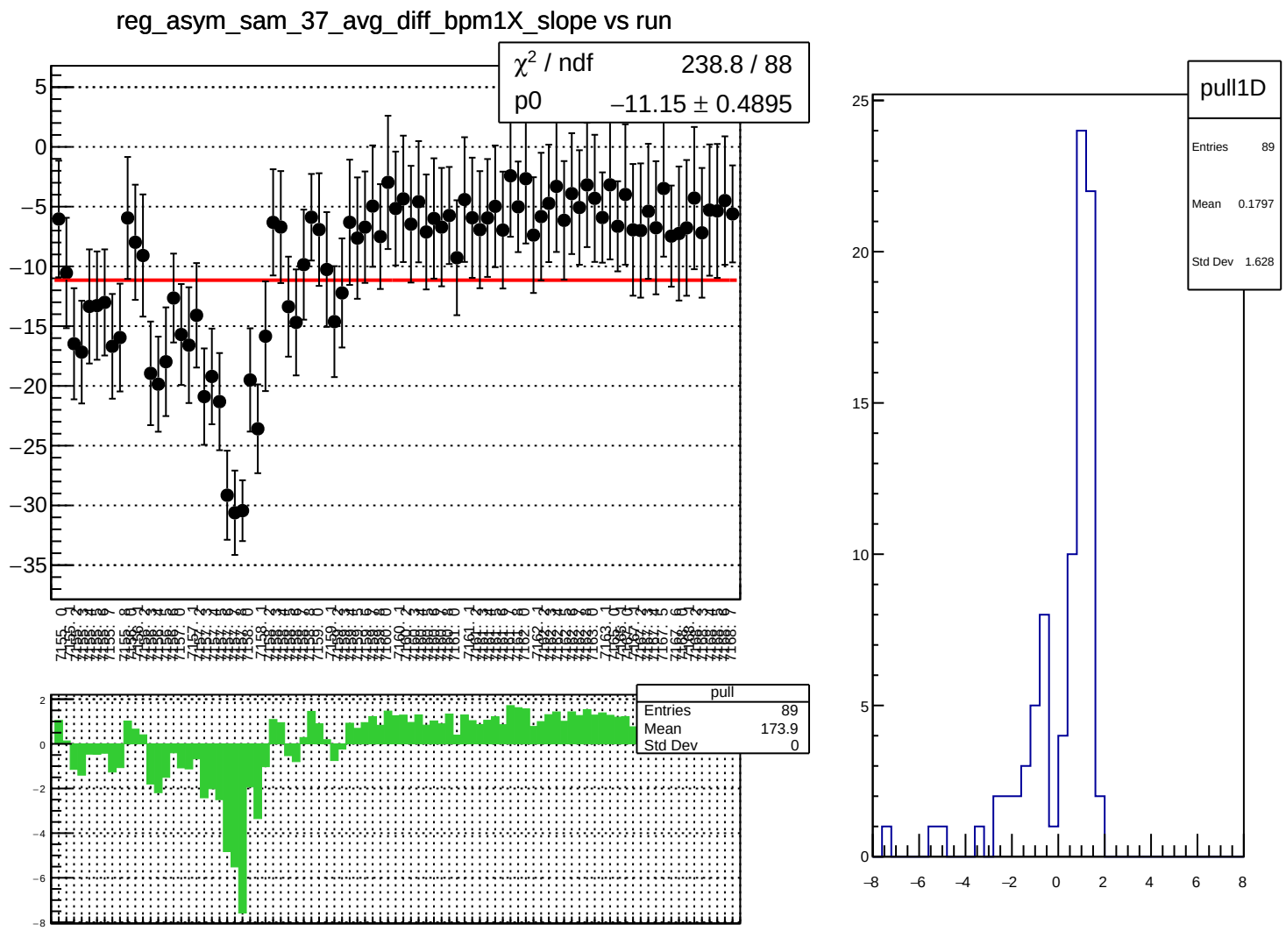

pull1D
Entries 89
Mean 0.009116
Std Dev 0.2448

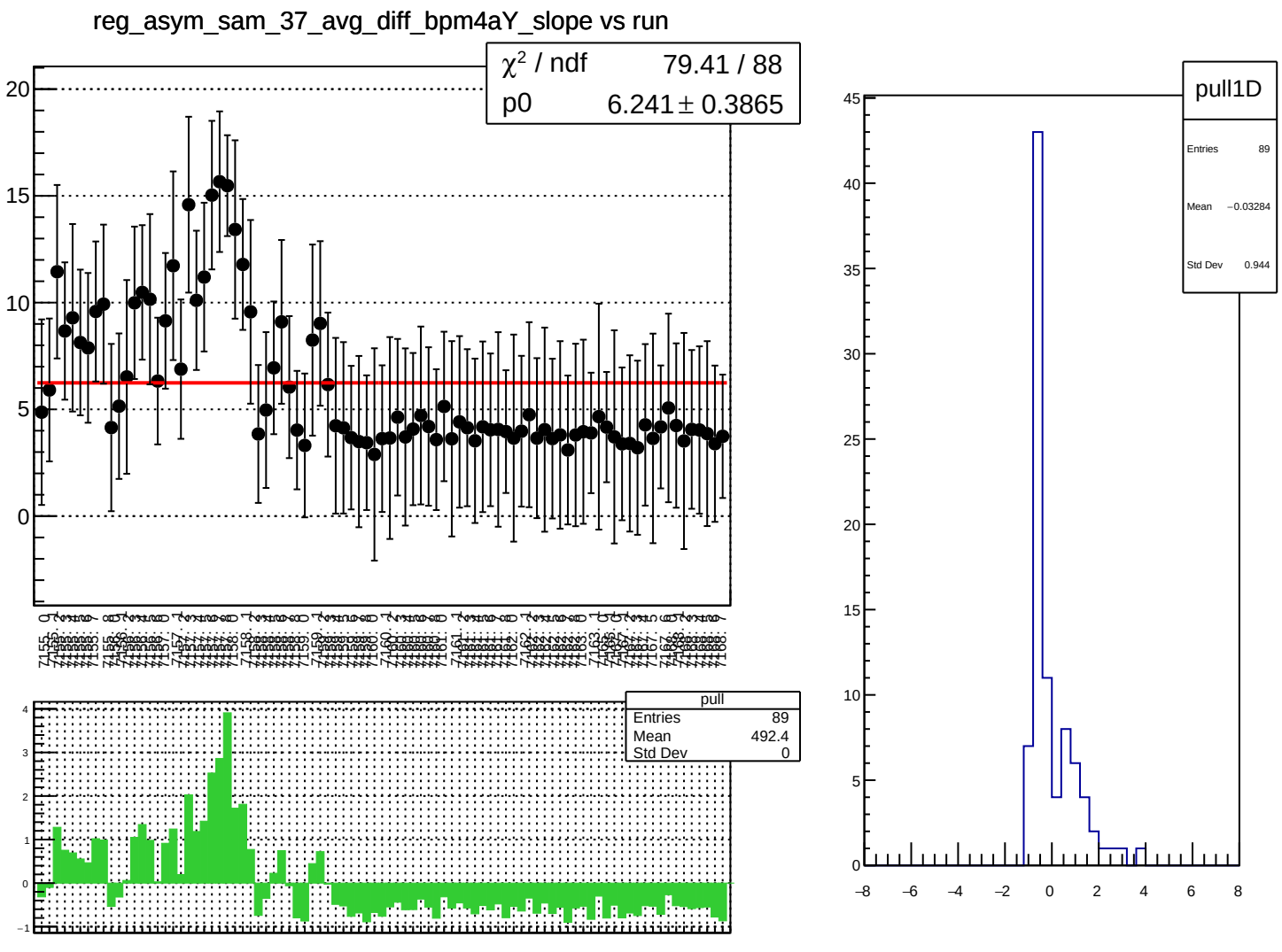

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.141 / 88
p0 −12 ± 0.8054
pull
Entries 89
Mean 227.1
Std Dev 0

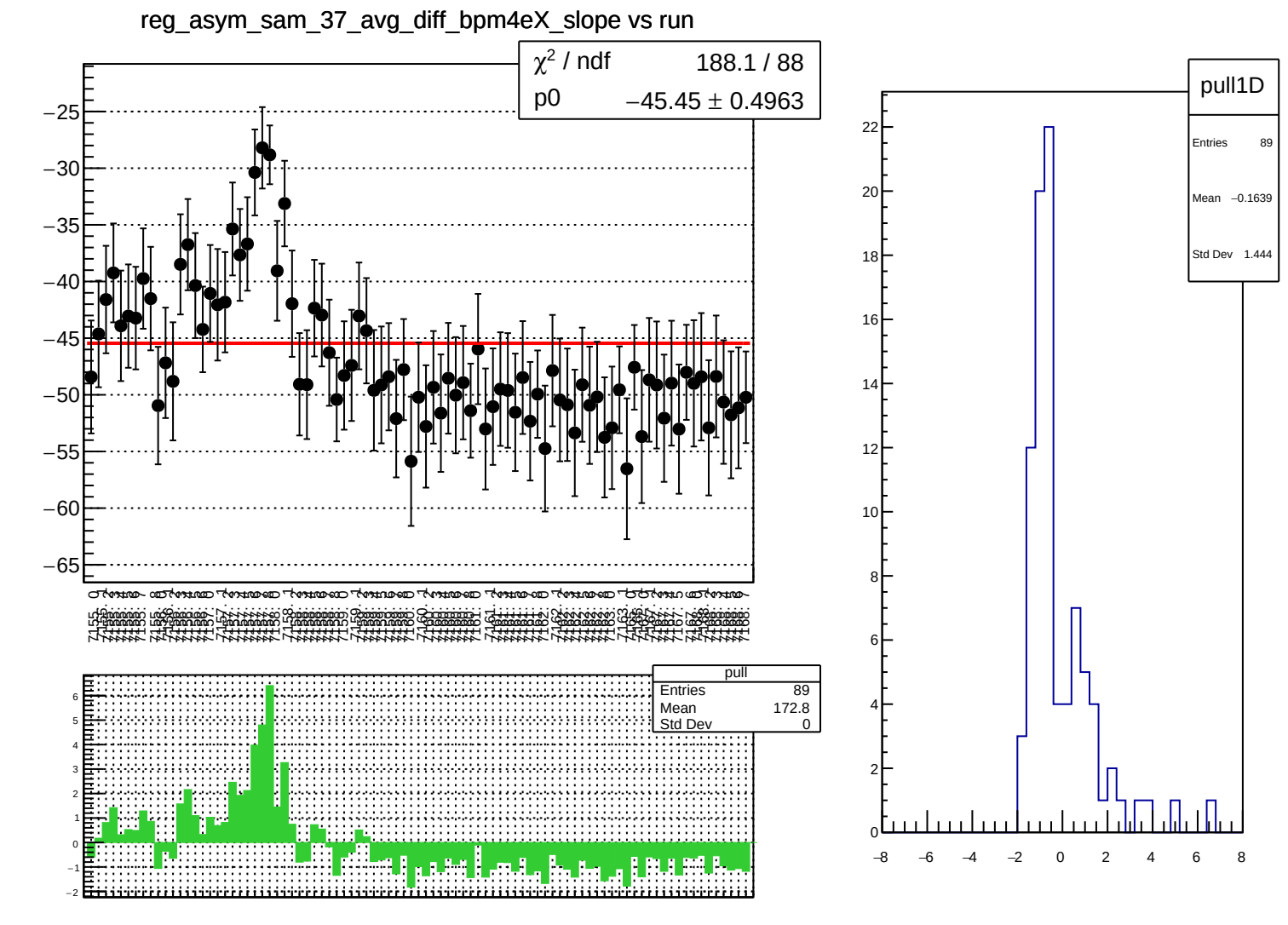

pull1D
Entries 89
Mean 0.02147
Std Dev 0.3198

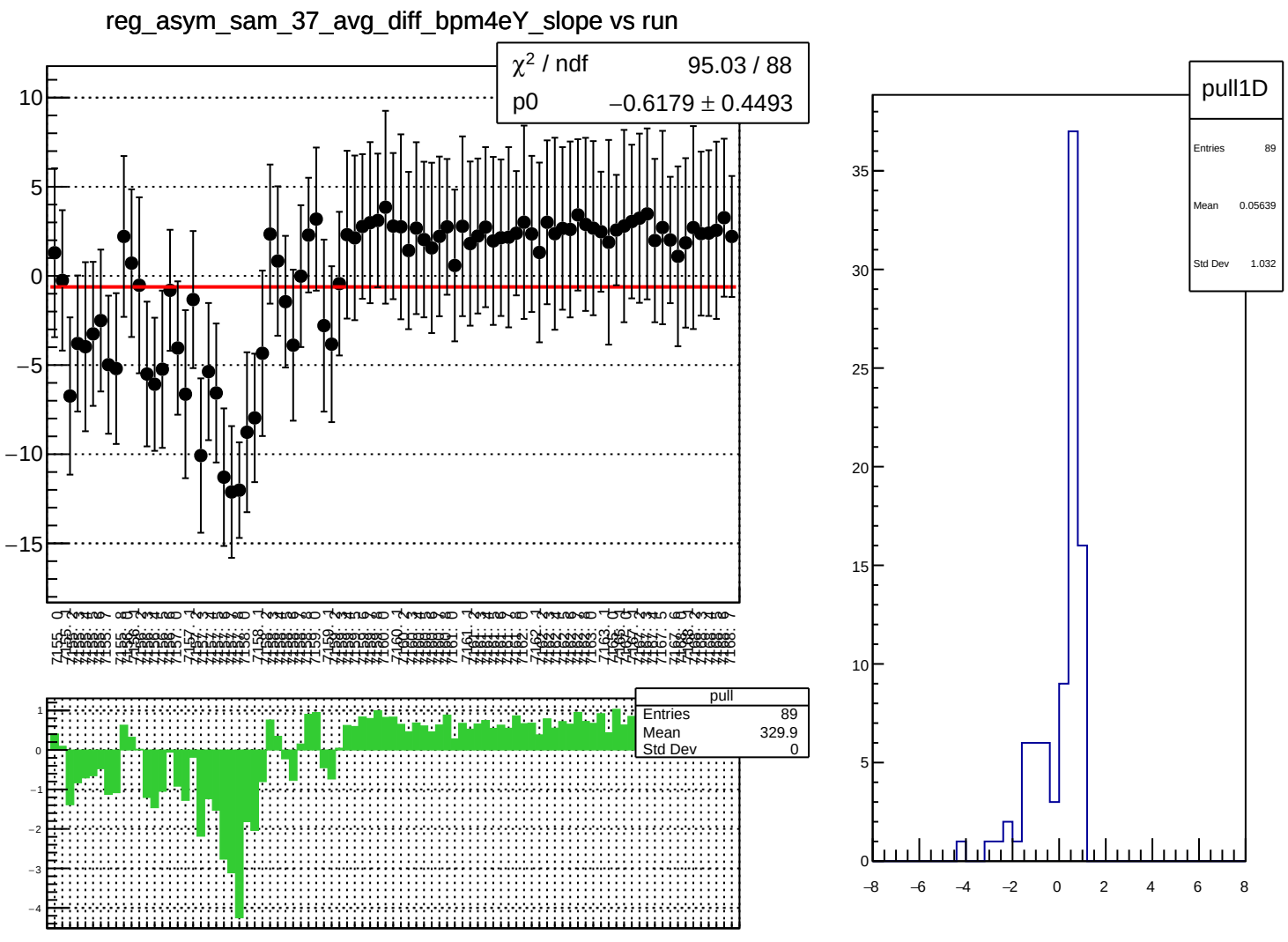

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.316 / 88
p0 −35.2 ± 0.7308
pull
Entries 89
Mean −26.33
Std Dev 0
pull1D
Entries 89
Mean −0.01023
Std Dev 0.2662

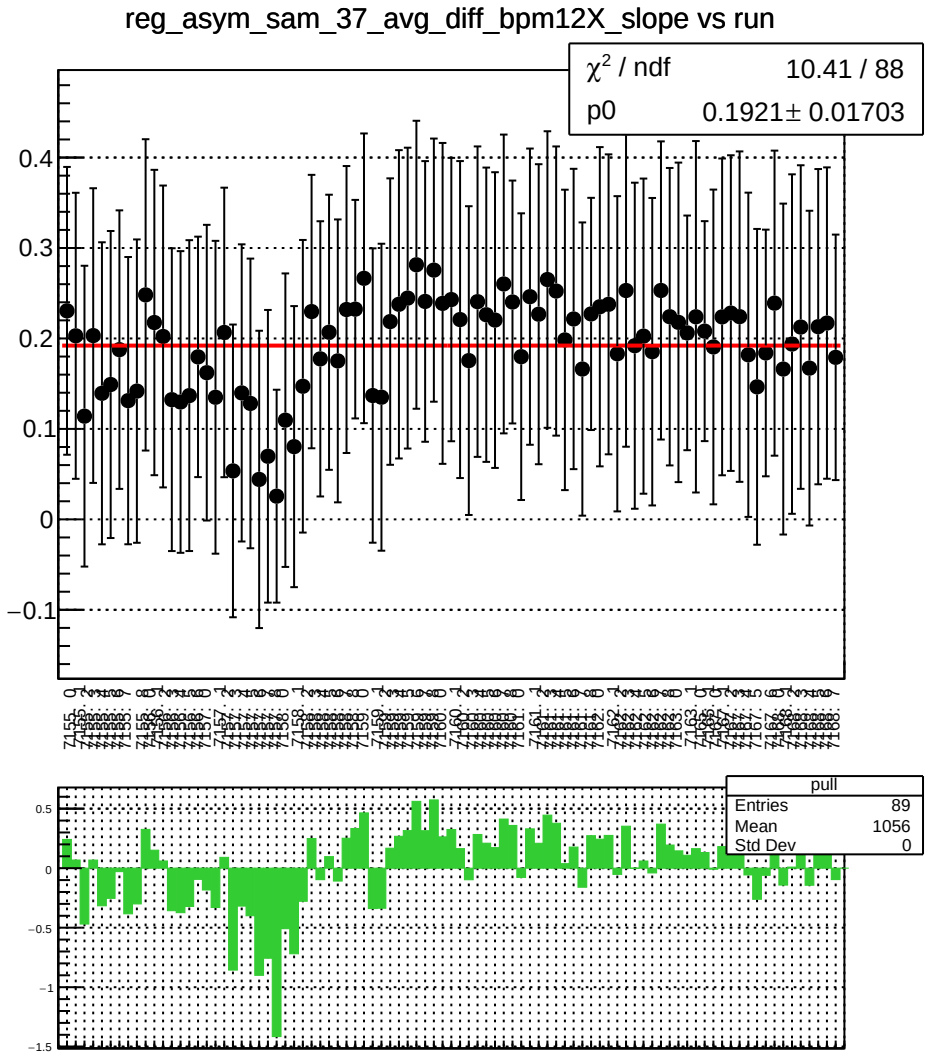

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 10.03 / 88
p0 0.8391± 0.02752
pull
Entries 89
Mean 1670
Std Dev 0
pull1D
Entries 89
Mean 0.001512
Std Dev 0.3358

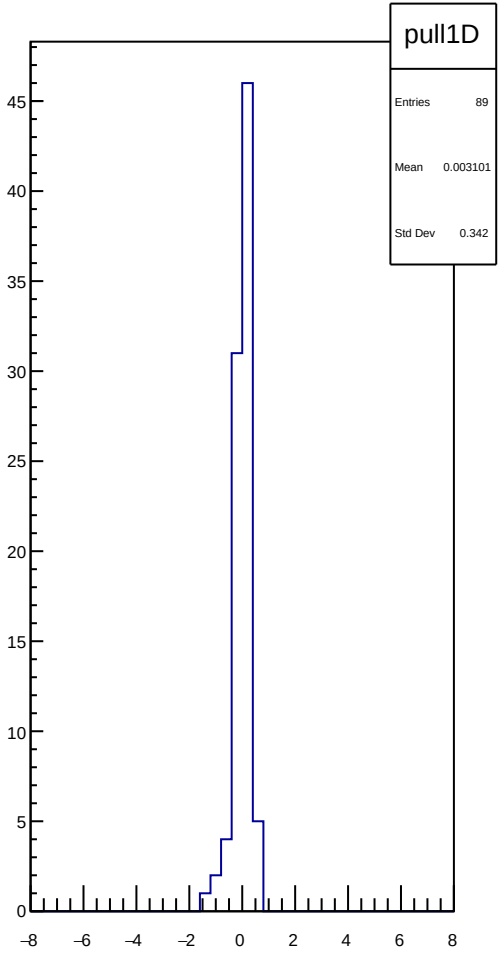

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 238.8 / 88
p0 −11.15 ± 0.4895
pull
Entries 89
Mean 173.9
Std Dev 0
pull1D
Entries 89
Mean 0.1797
Std Dev 1.628

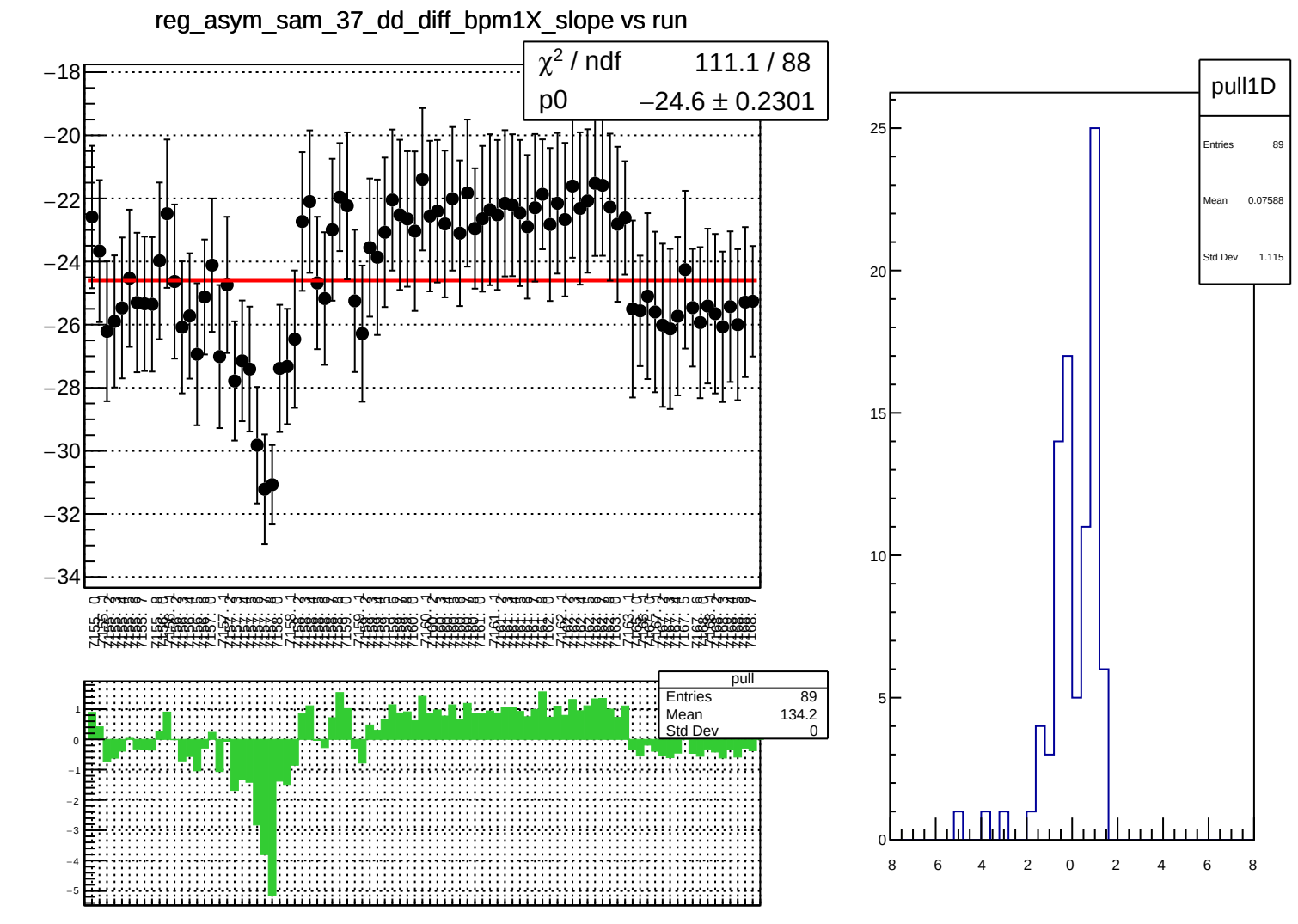

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.41 / 88
p0 6.241 ± 0.3865
pull
Entries 89
Mean 492.4
Std Dev 0
pull1D
Entries 89
Mean −0.03284
Std Dev 0.944

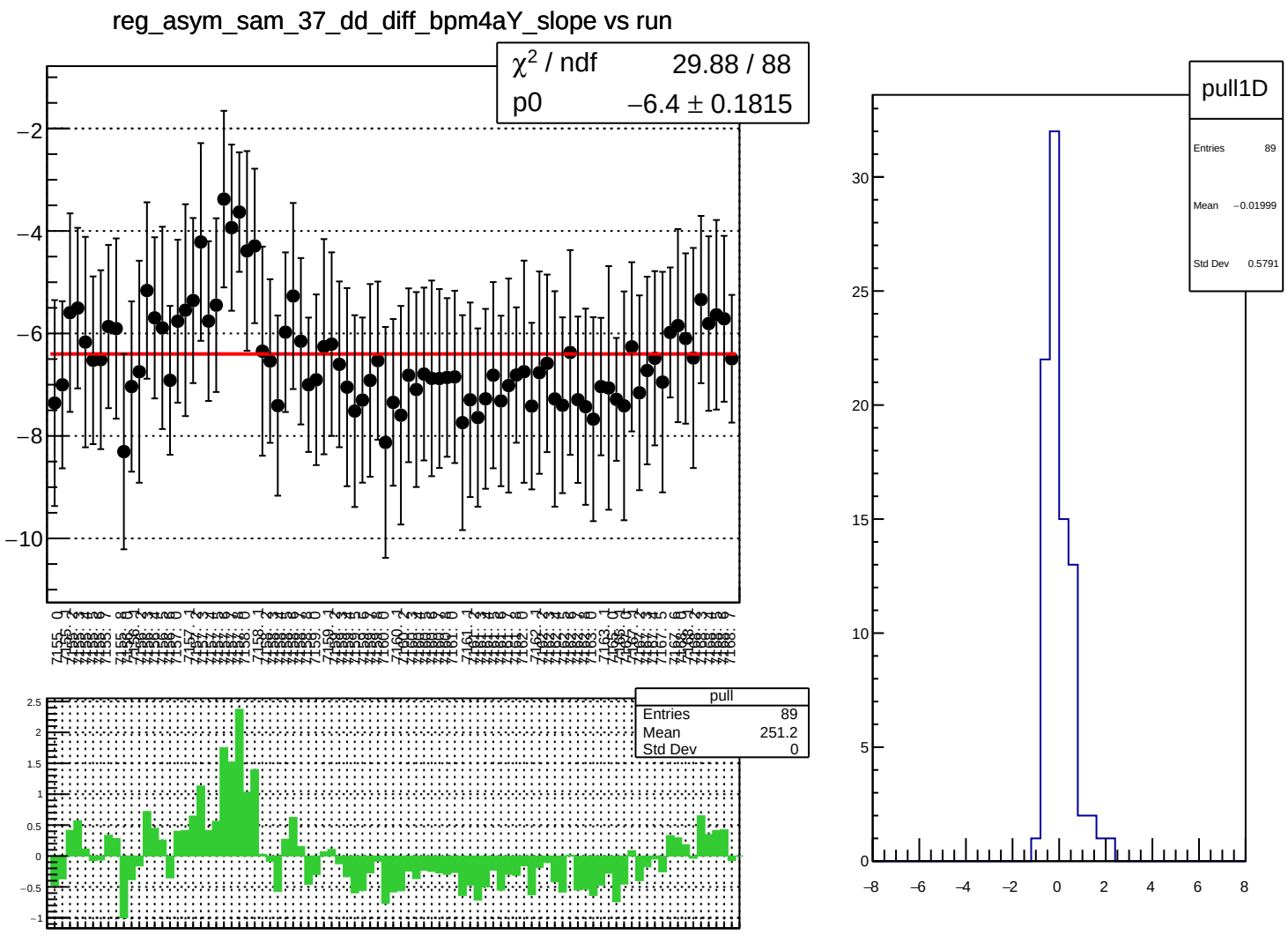

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 188.1 / 88
p0 −45.45 ± 0.4963
pull
Entries 89
Mean 172.8
Std Dev 0
pull1D
Entries 89
Mean −0.1639
Std Dev 1.444

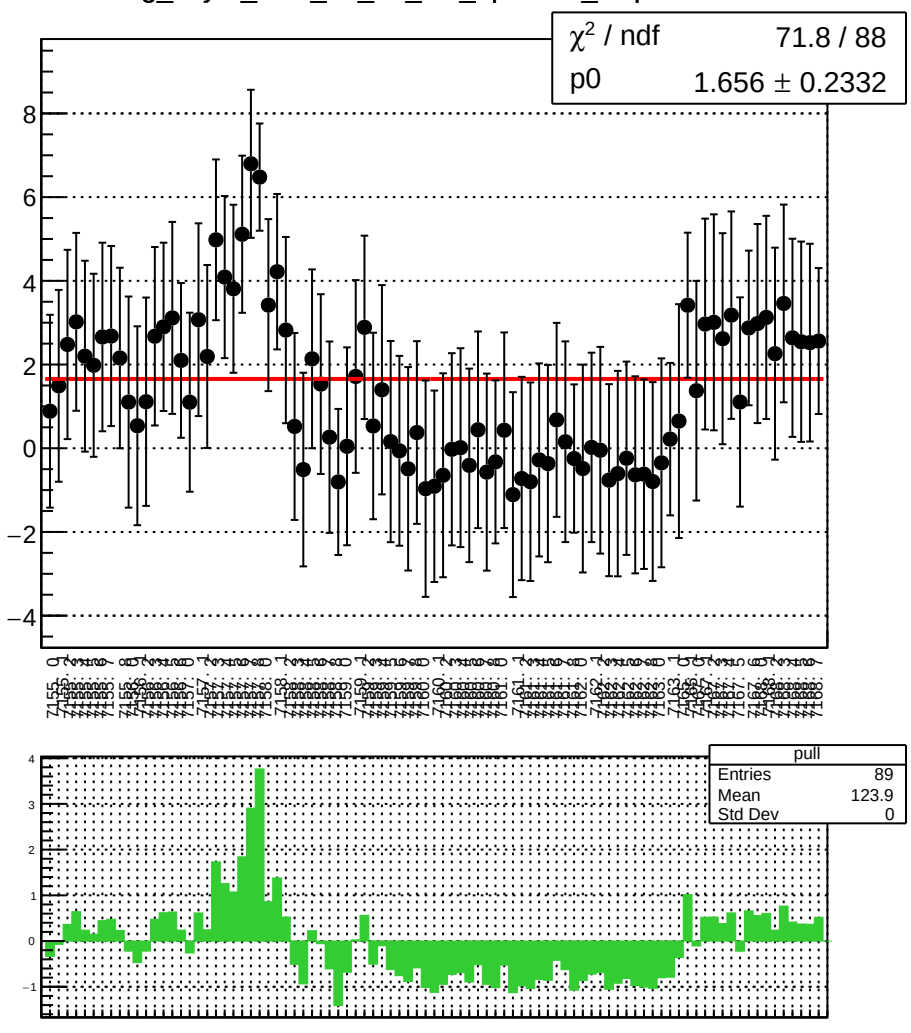

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.03 / 88
p0 −0.6179 ± 0.4493
pull
Entries 89
Mean 329.9
Std Dev 0
pull1D
Entries 89
Mean 0.05639
Std Dev 1.032

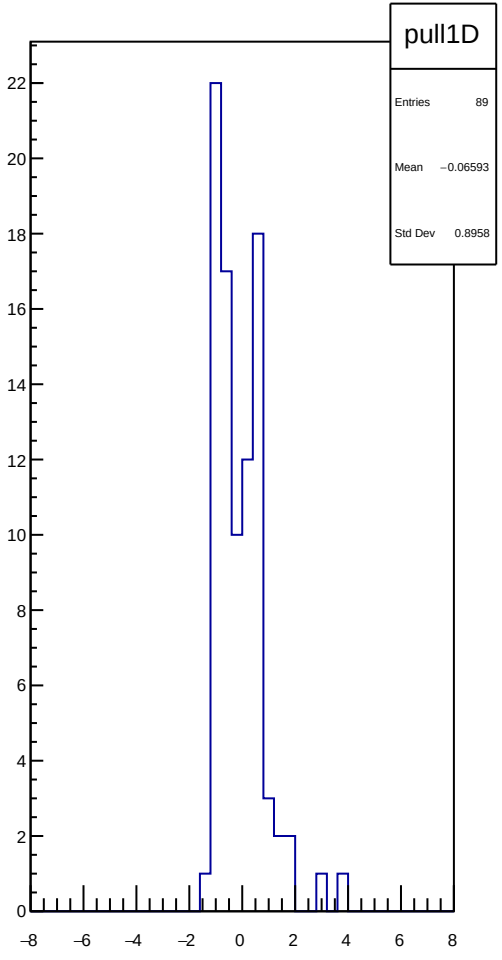

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 10.41 / 88
p0 0.1921± 0.01703
pull
Entries 89
Mean 1056
Std Dev 0

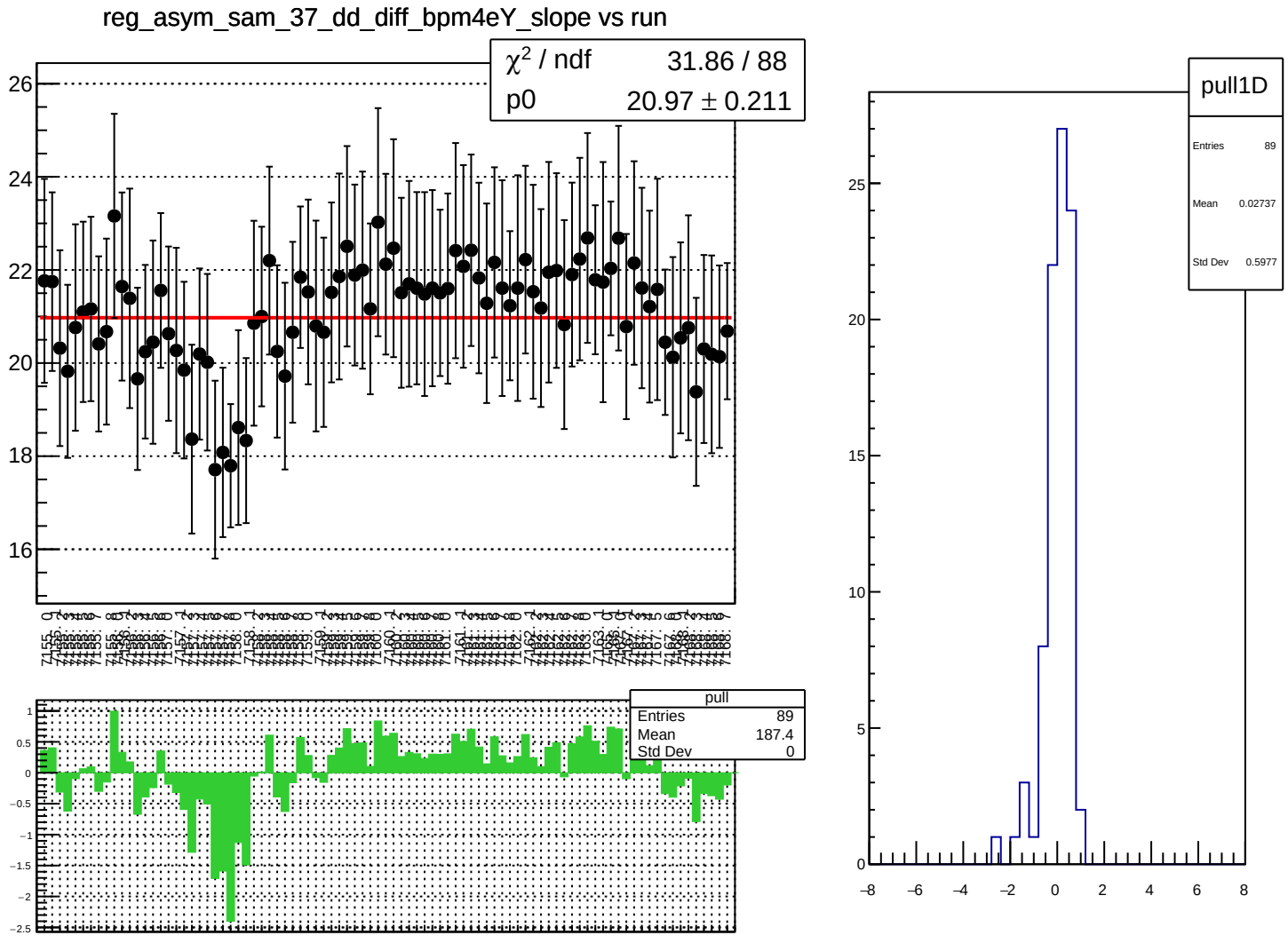

pull1D
Entries 89
Mean 0.003101
Std Dev 0.342

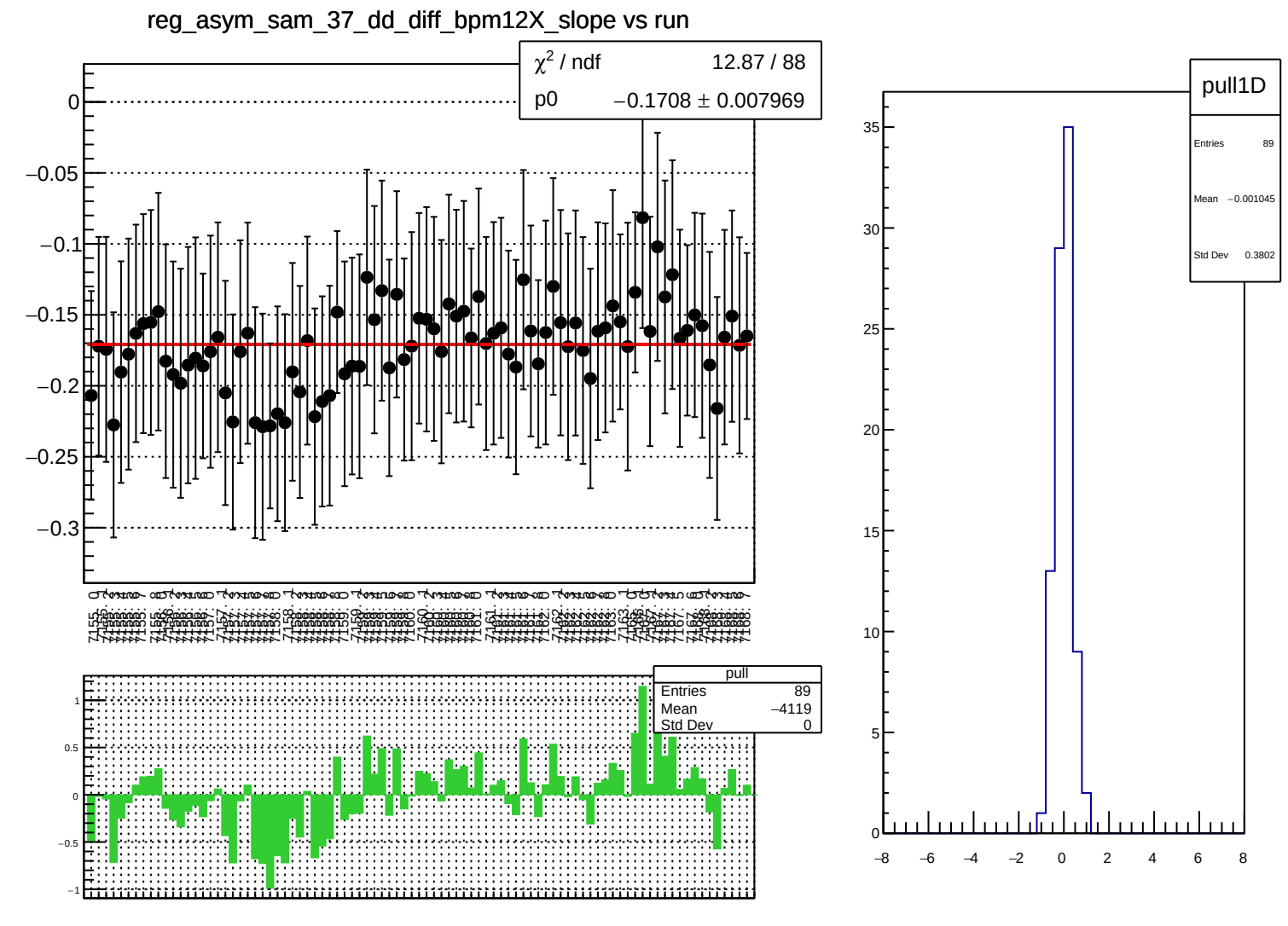

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 111.1 / 88
p0 −24.6 ± 0.2301
pull
Entries 89
Mean 134.2
Std Dev 0
pull1D
Entries 89
Mean 0.07588
Std Dev 1.115

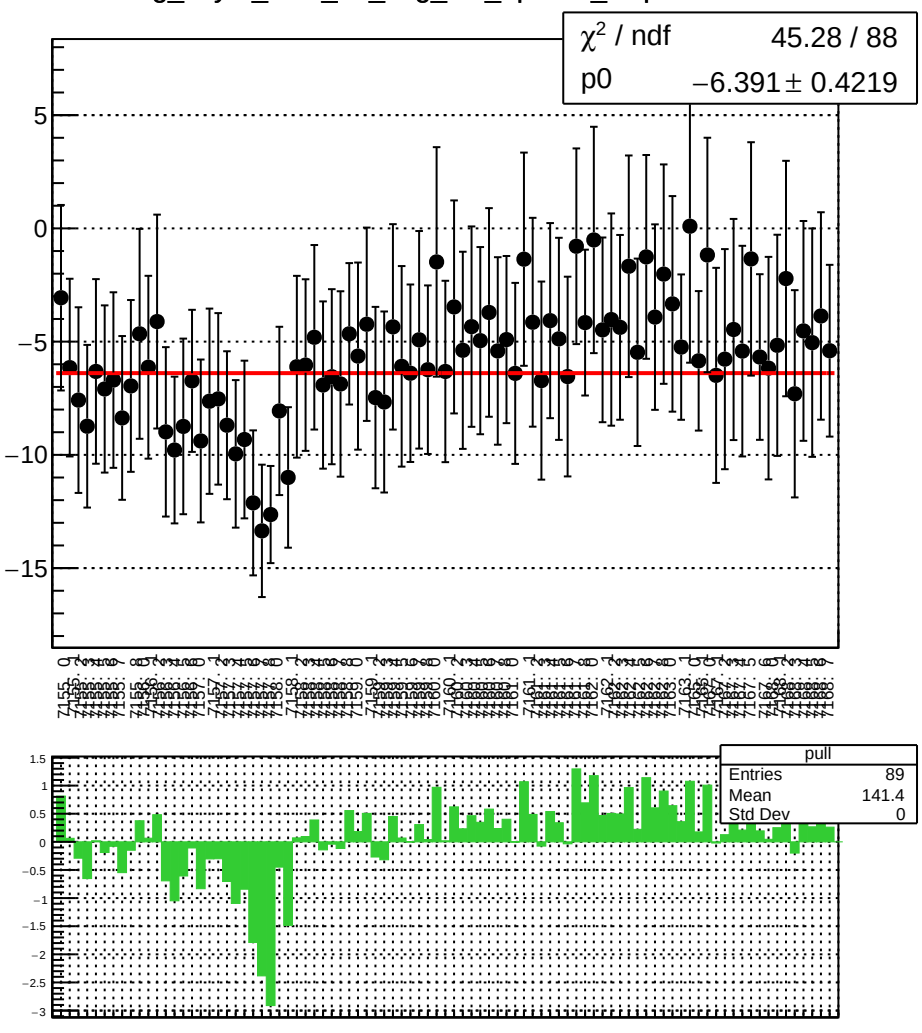

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 29.88 / 88
p0 −6.4 ± 0.1815
pull
Entries 89
Mean 251.2
Std Dev 0
pull1D
Entries 89
Mean −0.01999
Std Dev 0.5791

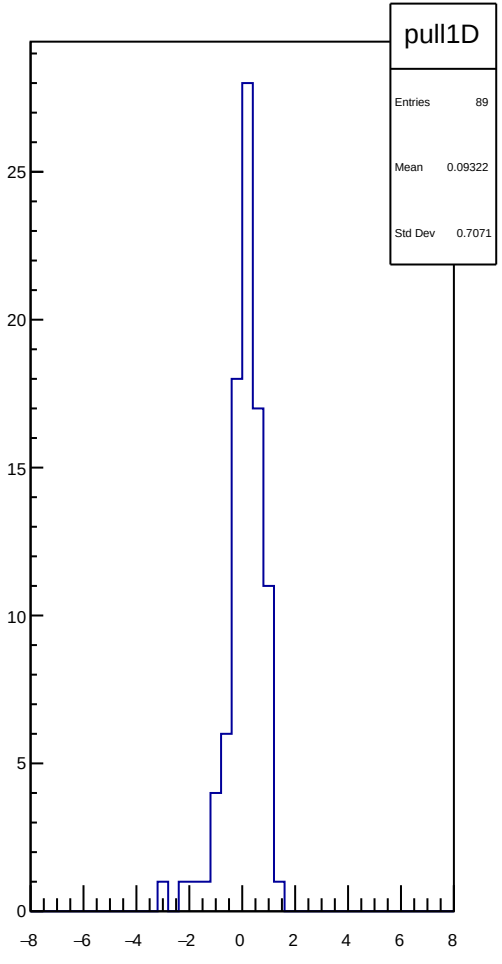

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.8 / 88
p0 1.656 ± 0.2332
pull
Entries 89
Mean 123.9
Std Dev 0

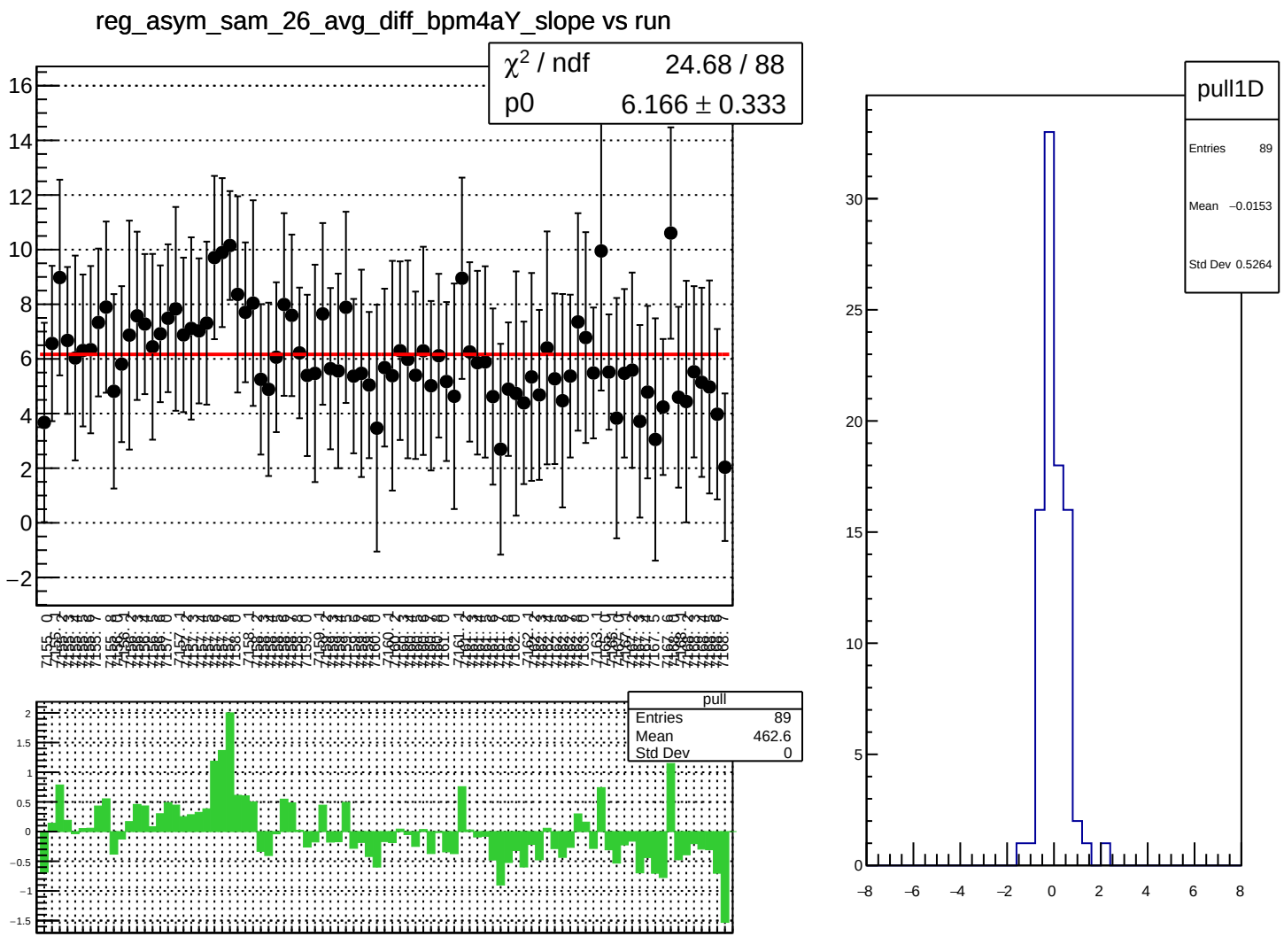

pull1D
Entries 89
Mean −0.06593
Std Dev 0.8958

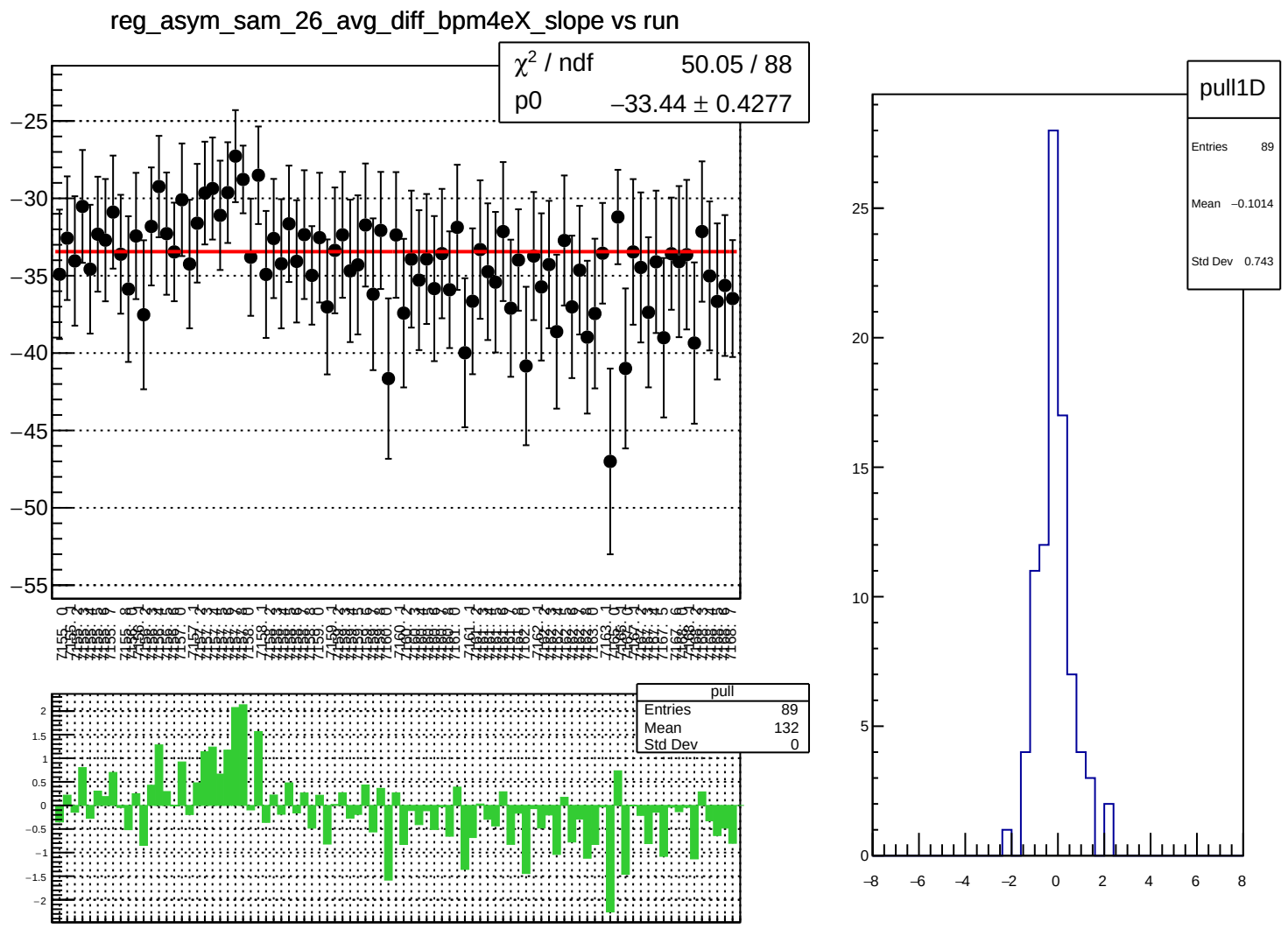

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.86 / 88
p0 20.97 ± 0.211
pull
Entries 89
Mean 187.4
Std Dev 0
pull1D
Entries 89
Mean 0.02737
Std Dev 0.5977

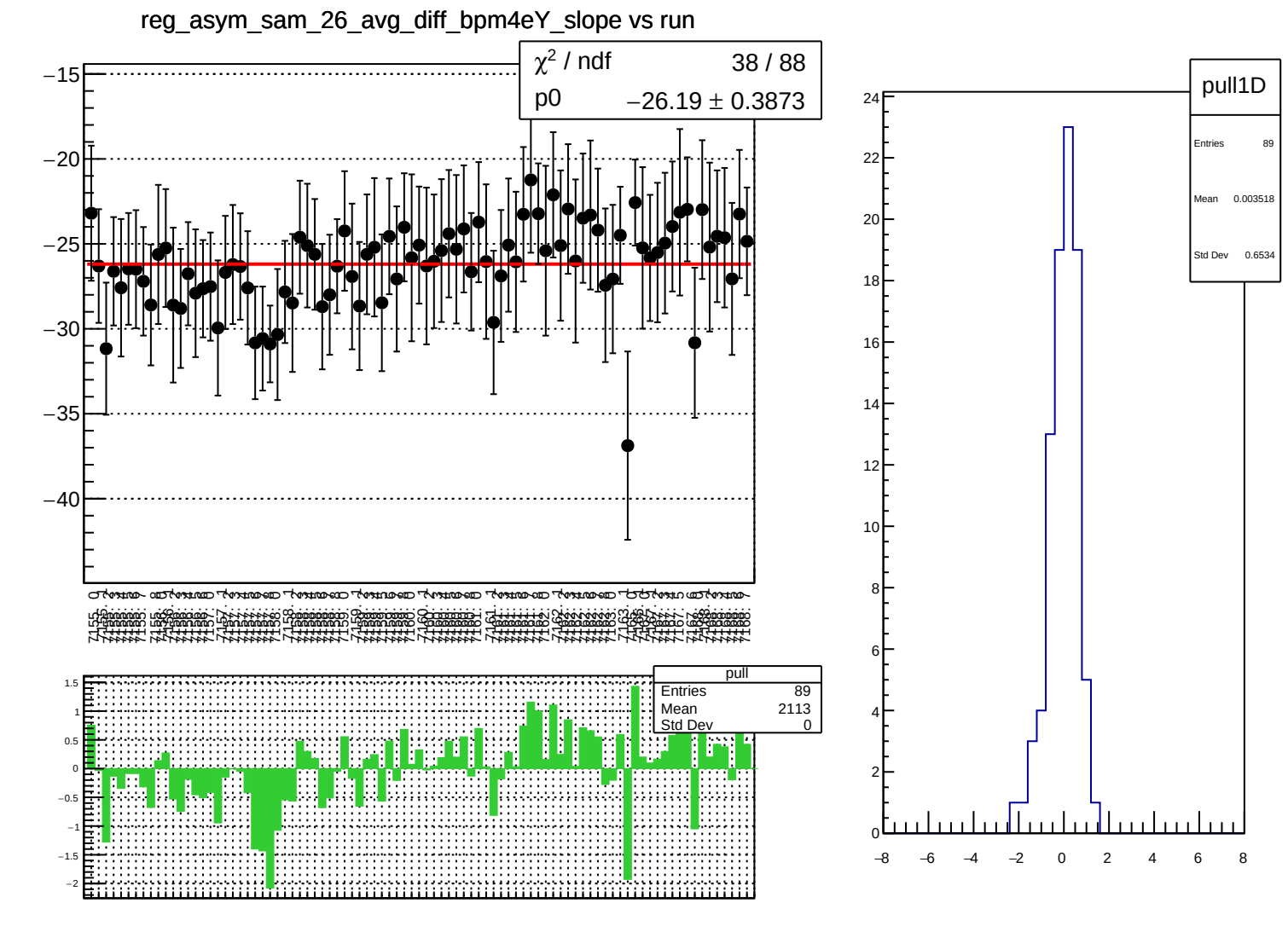

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 12.87 / 88
p0 −0.1708 ± 0.007969
pull
Entries 89
Mean −4119
Std Dev 0
pull1D
Entries 89
Mean −0.001045
Std Dev 0.3802

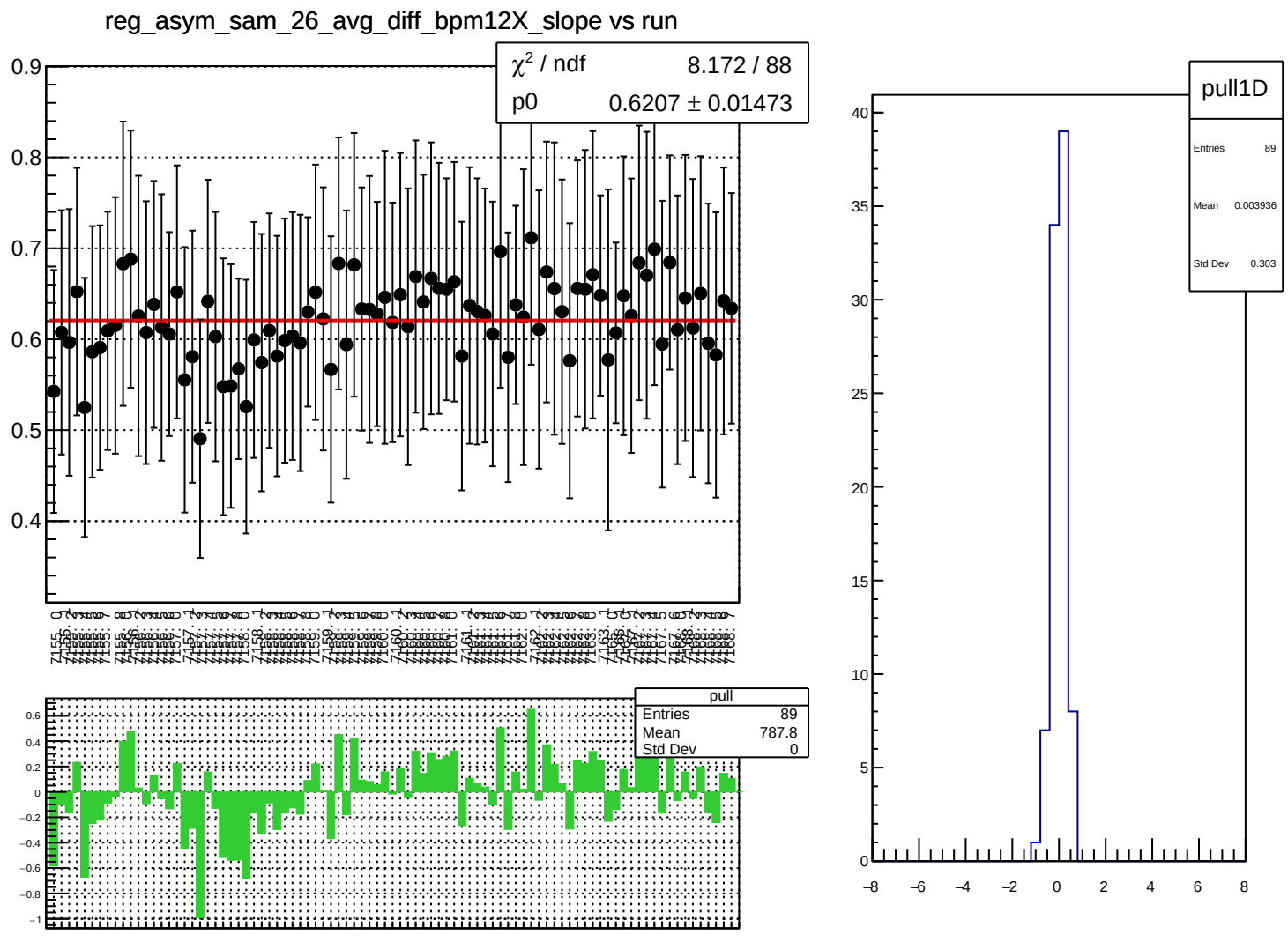

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 45.28 / 88
p0 −6.391 ± 0.4219
pull
Entries 89
Mean 141.4
Std Dev 0

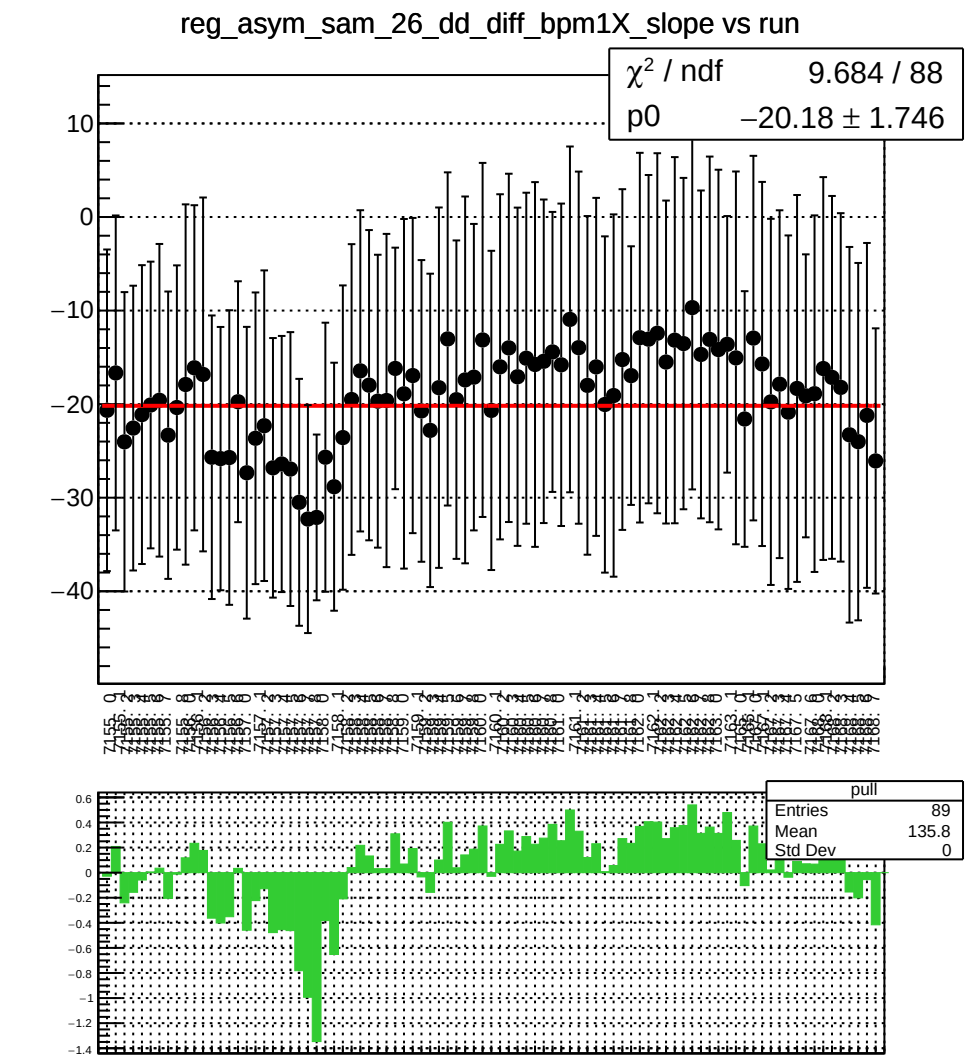

pull1D
Entries 89
Mean 0.09322
Std Dev 0.7071

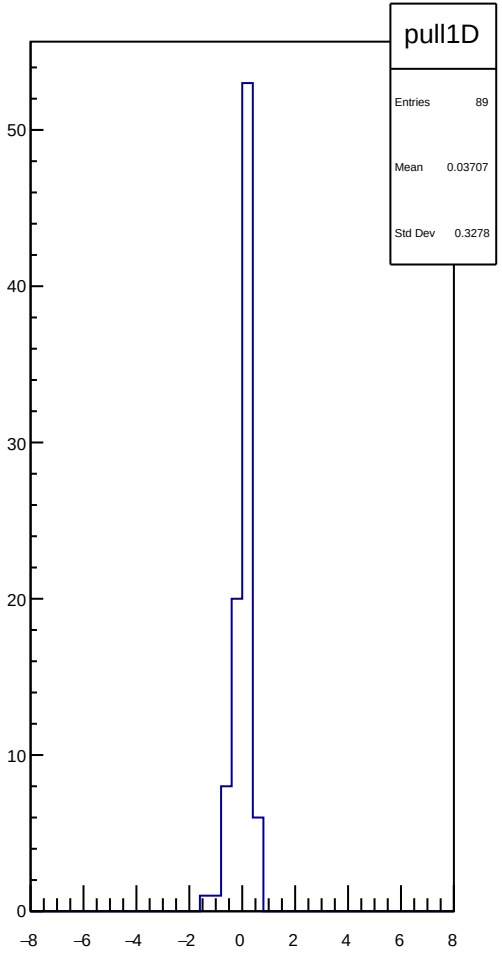

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.68 / 88
p0 6.166 ± 0.333
pull
Entries 89
Mean 462.6
Std Dev 0
pull1D
Entries 89
Mean −0.0153
Std Dev 0.5264

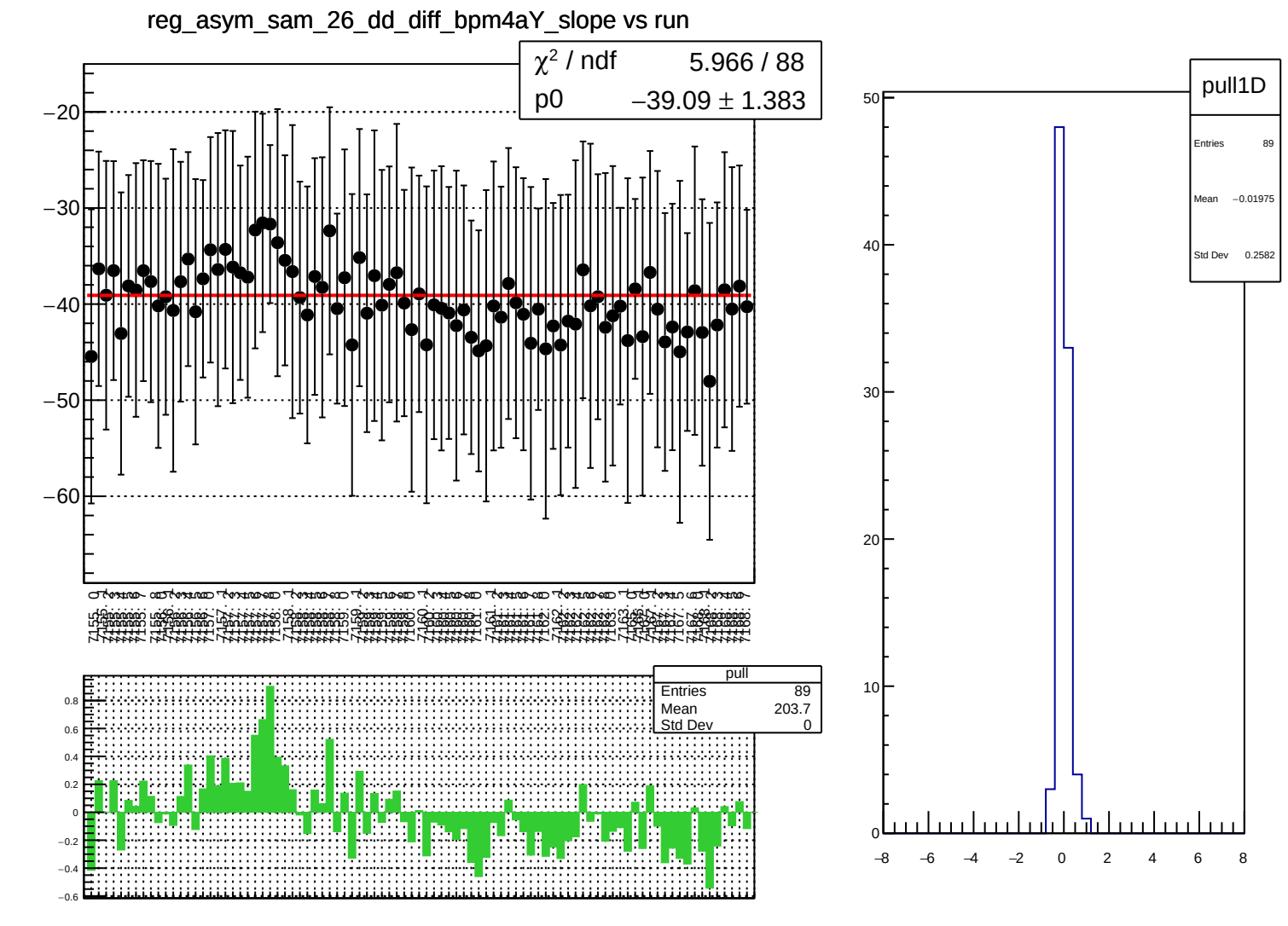

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 50.05 / 88
p0 −33.44 ± 0.4277
−25
−30
−35
−40
−45
−50
−55
pull
Entries 89
Mean 132
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean −0.1014
Std Dev 0.743
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

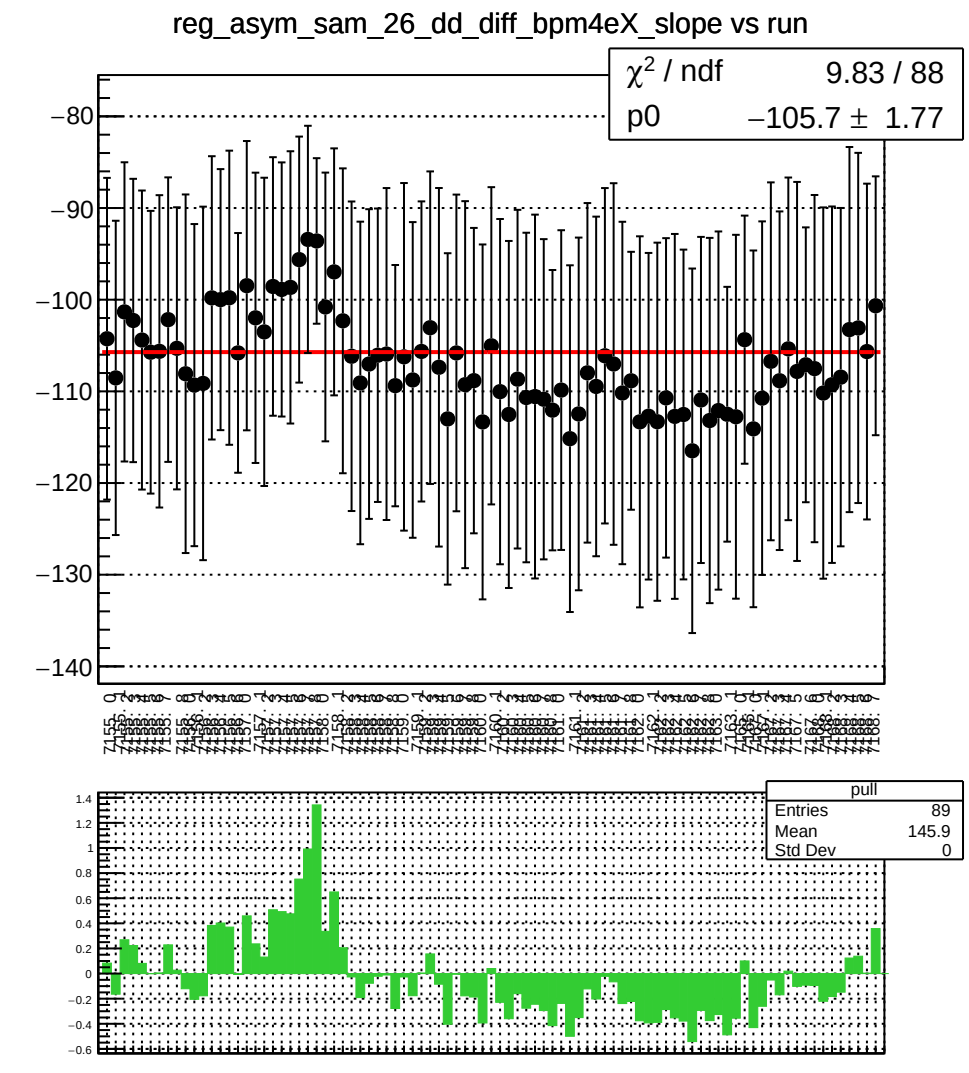

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 38 / 88
p0 −26.19 ± 0.3873
pull
Entries 89
Mean 2113
Std Dev 0
pull1D
Entries 89
Mean 0.003518
Std Dev 0.6534

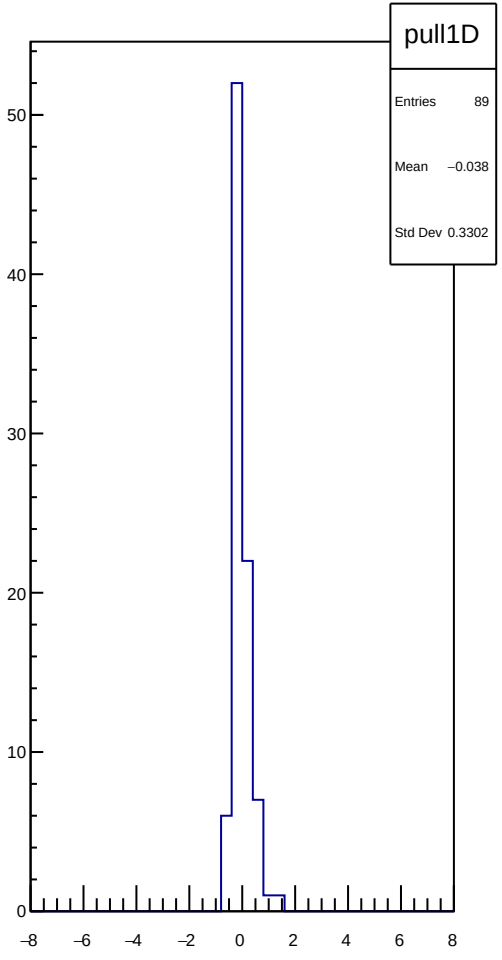

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 8.172 / 88
p0 0.6207 ± 0.01473
pull
Entries 89
Mean 787.8
Std Dev 0
pull1D
Entries 89
Mean 0.003936
Std Dev 0.303

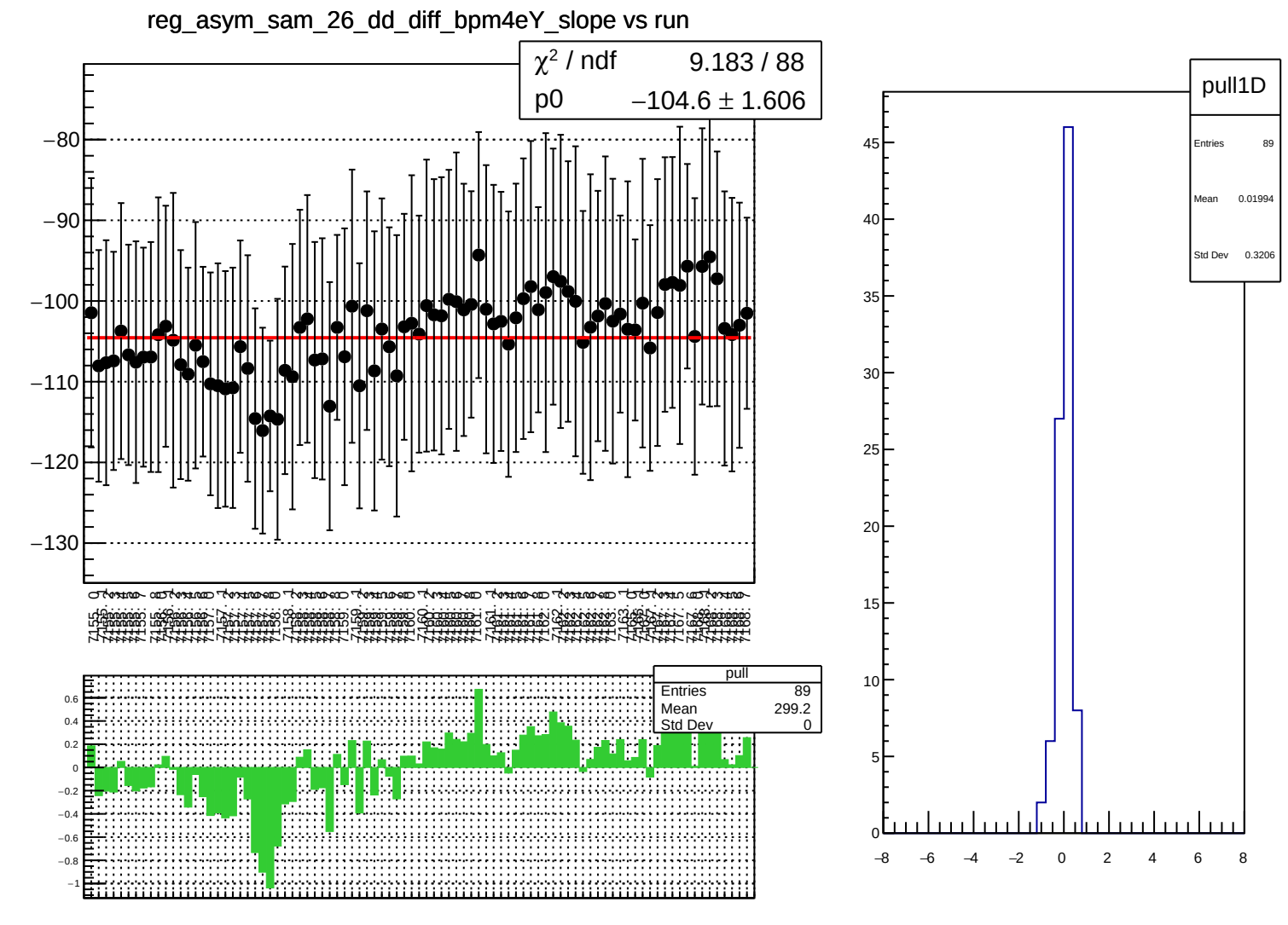

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 9.684 / 88
p0 −20.18 ± 1.746
pull
Entries 89
Mean 135.8
Std Dev 0

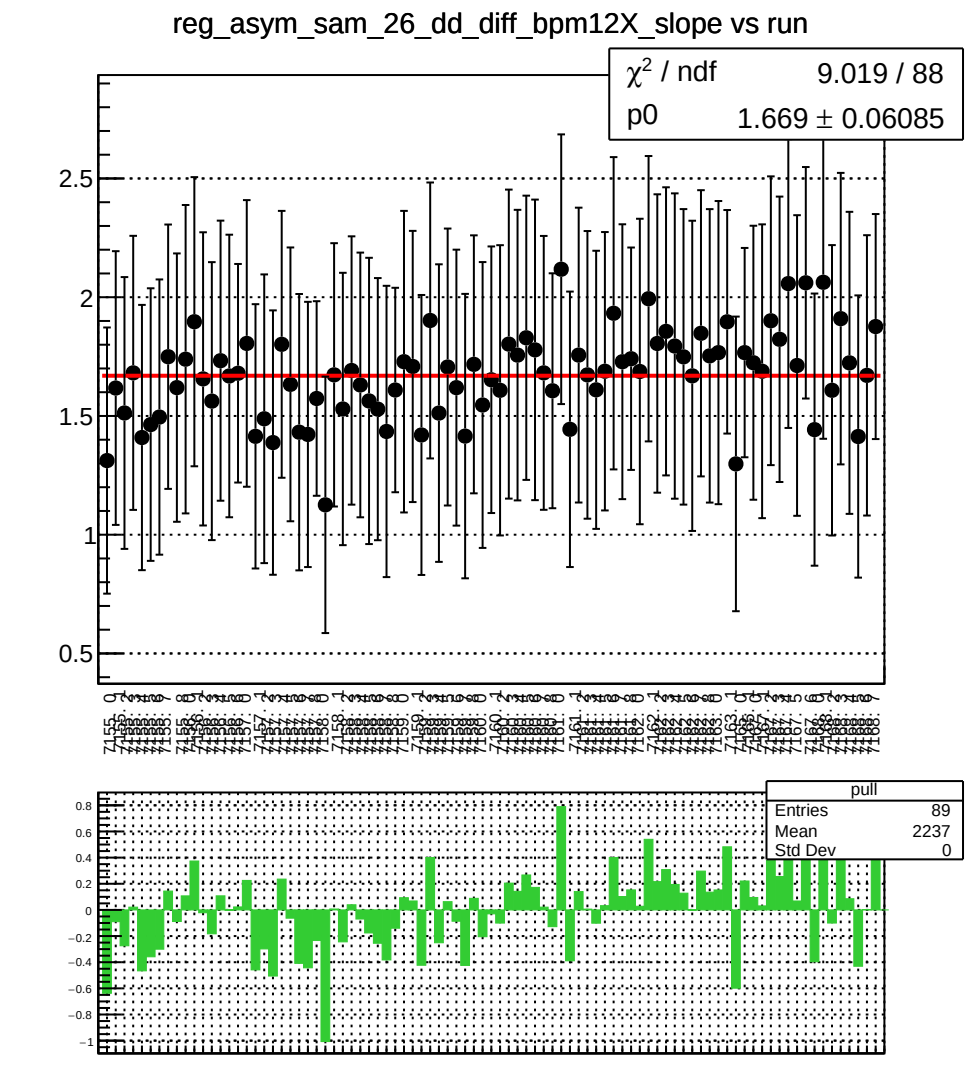

pull1D
Entries 89
Mean 0.03707
Std Dev 0.3278

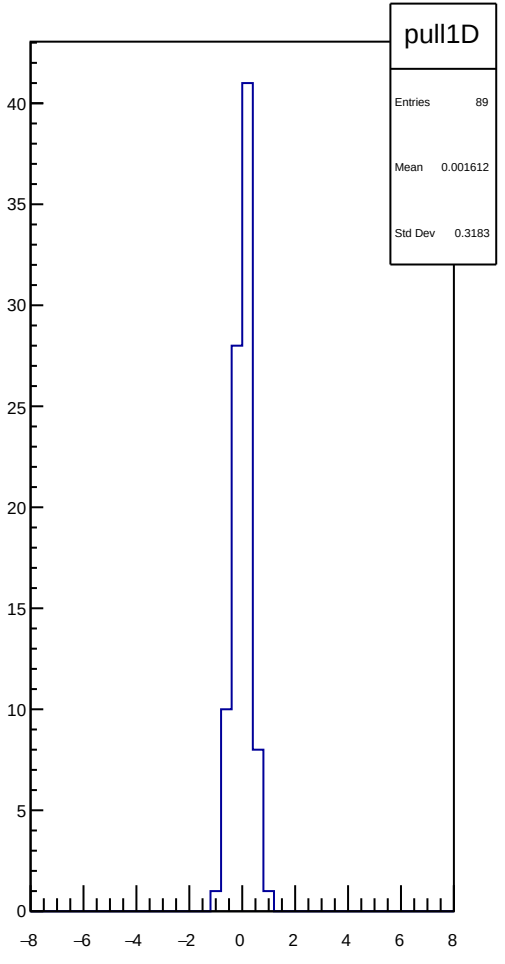

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.966 / 88
p0 −39.09 ± 1.383
pull
Entries 89
Mean 203.7
Std Dev 0
pull1D
Entries 89
Mean −0.01975
Std Dev 0.2582

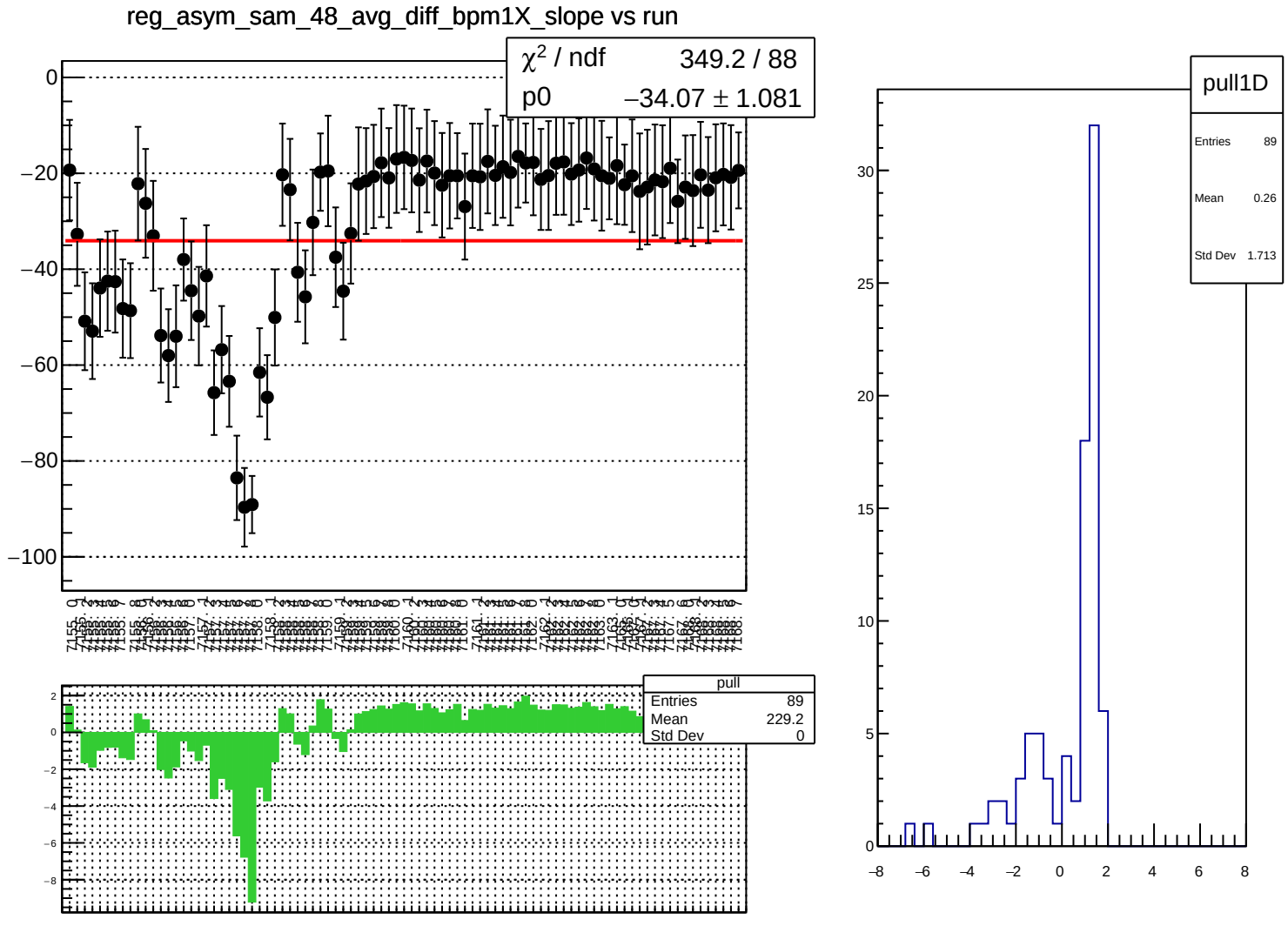

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.83 / 88
p0 −105.7 ± 1.77
pull
Entries 89
Mean 145.9
Std Dev 0

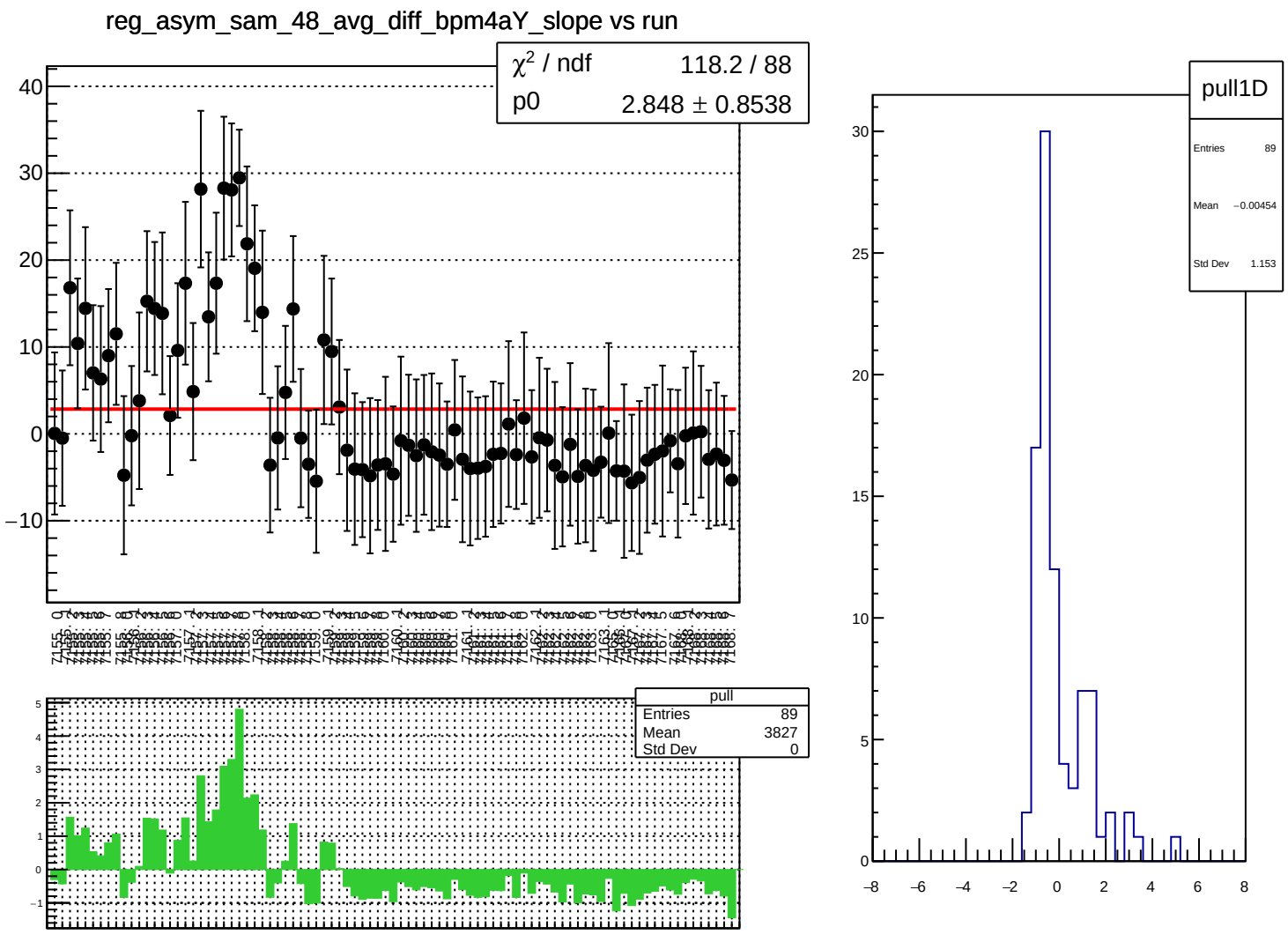

pull1D
Entries 89
Mean −0.038
Std Dev 0.3302

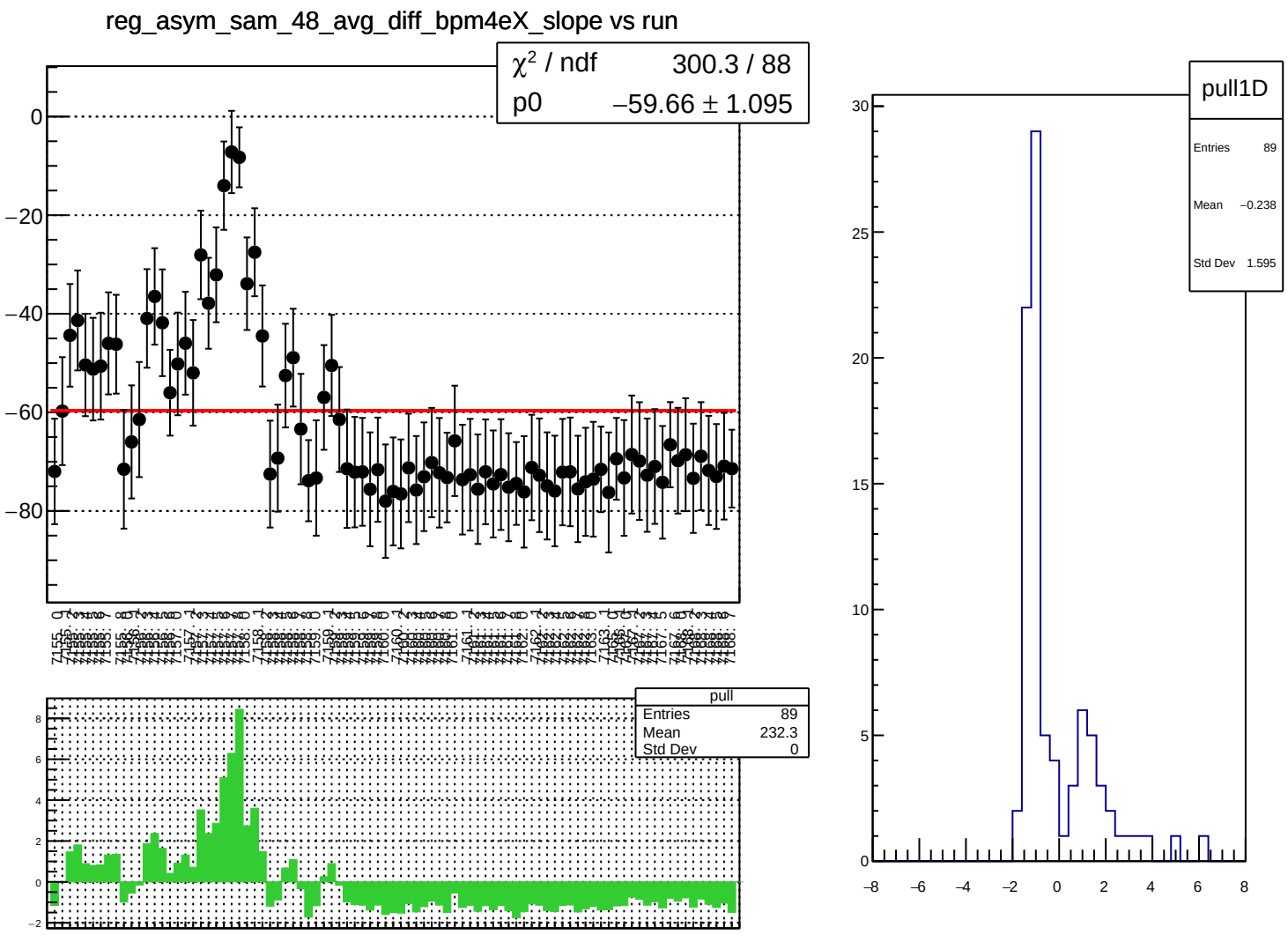

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.183 / 88
p0 −104.6 ± 1.606
pull
Entries 89
Mean 299.2
Std Dev 0
pull1D
Entries 89
Mean 0.01994
Std Dev 0.3206

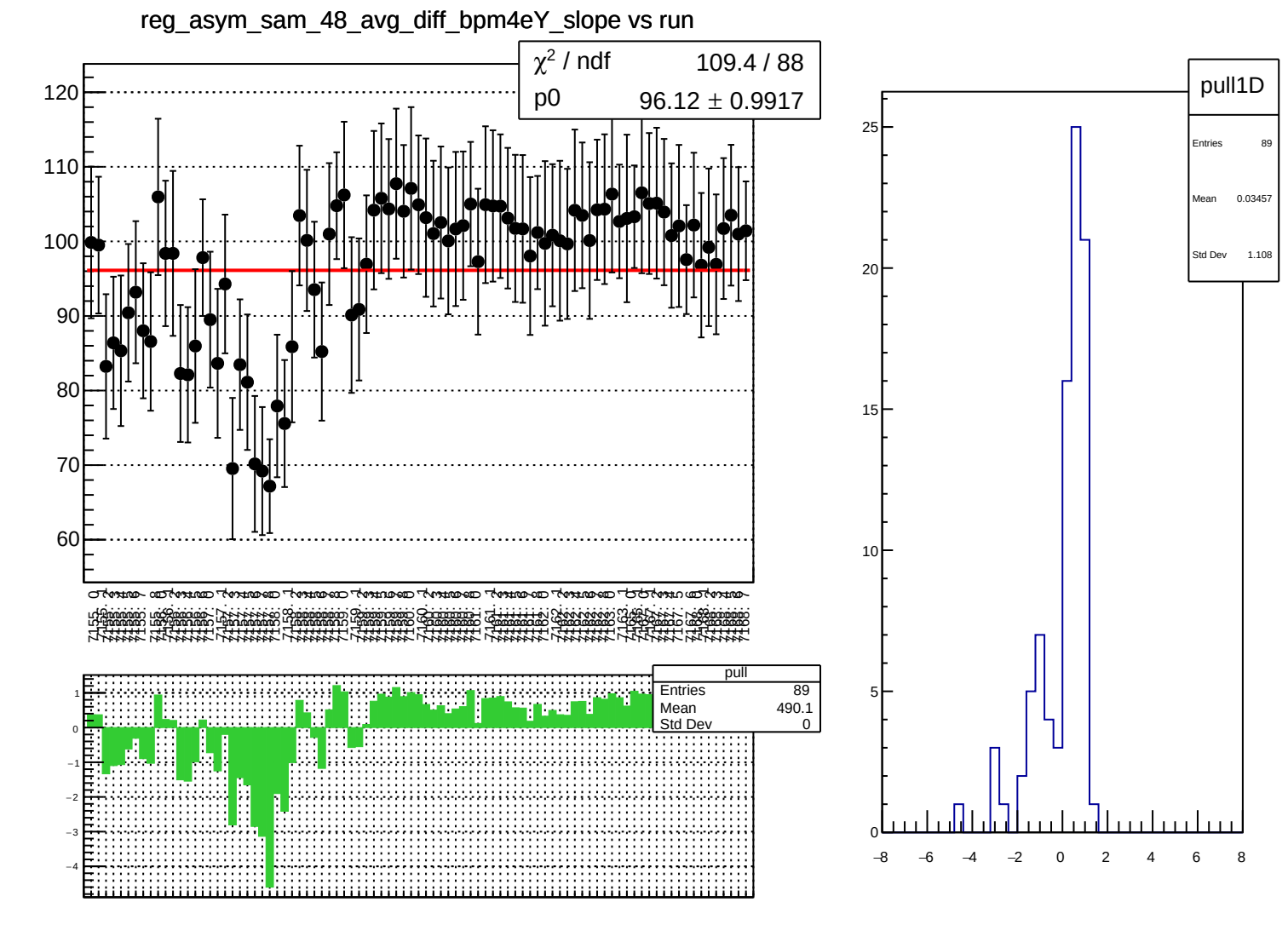

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.019 / 88
p0 1.669 ± 0.06085
pull
Entries 89
Mean 2237
Std Dev 0

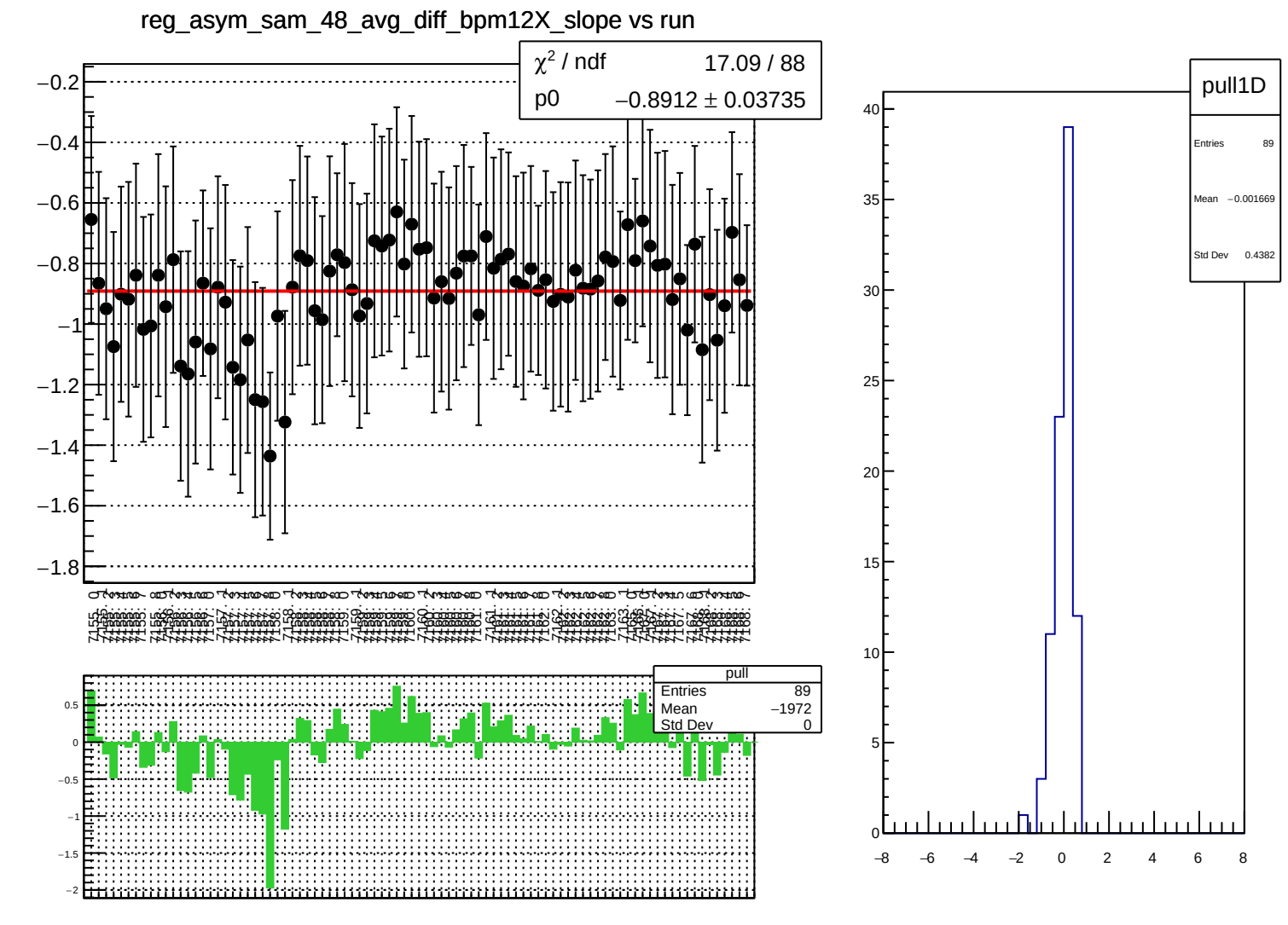

pull1D
Entries 89
Mean 0.001612
Std Dev 0.3183

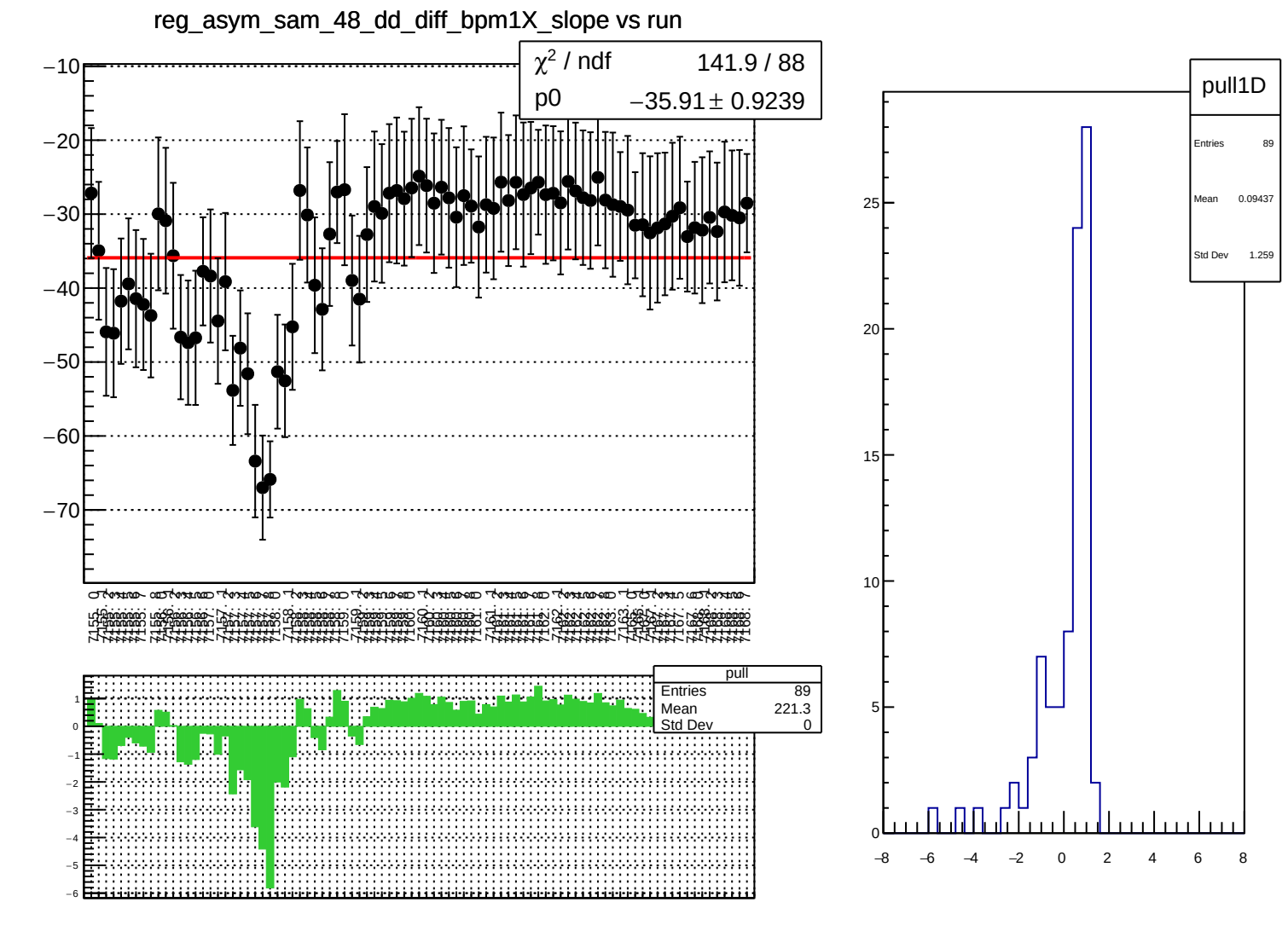

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 349.2 / 88
p0 −34.07 ± 1.081
pull
Entries 89
Mean 229.2
Std Dev 0
pull1D
Entries 89
Mean 0.26
Std Dev 1.713

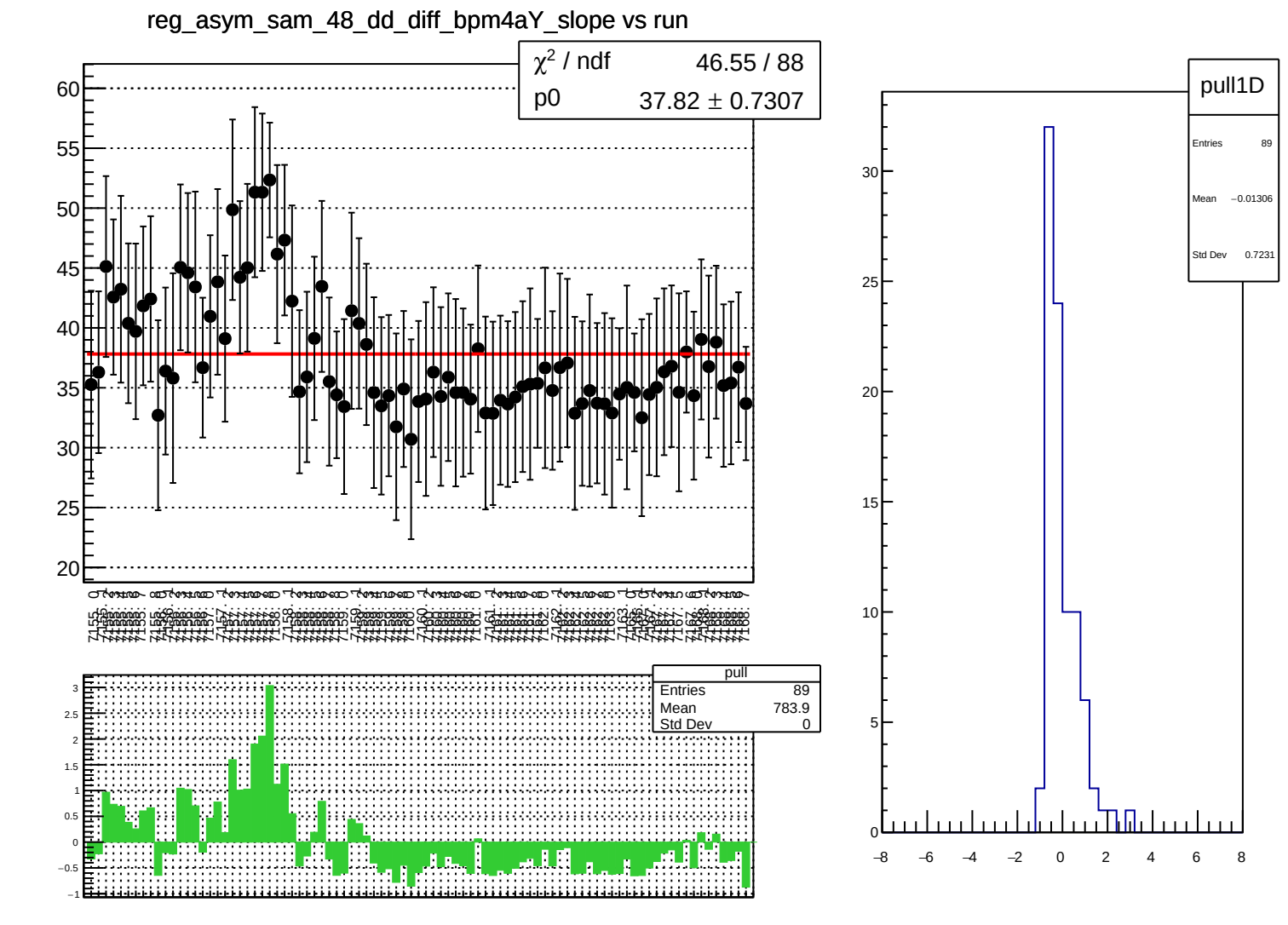

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 118.2 / 88
p0 2.848 ± 0.8538
pull
Entries 89
Mean 3827
Std Dev 0
pull1D
Entries 89
Mean −0.00454
Std Dev 1.153

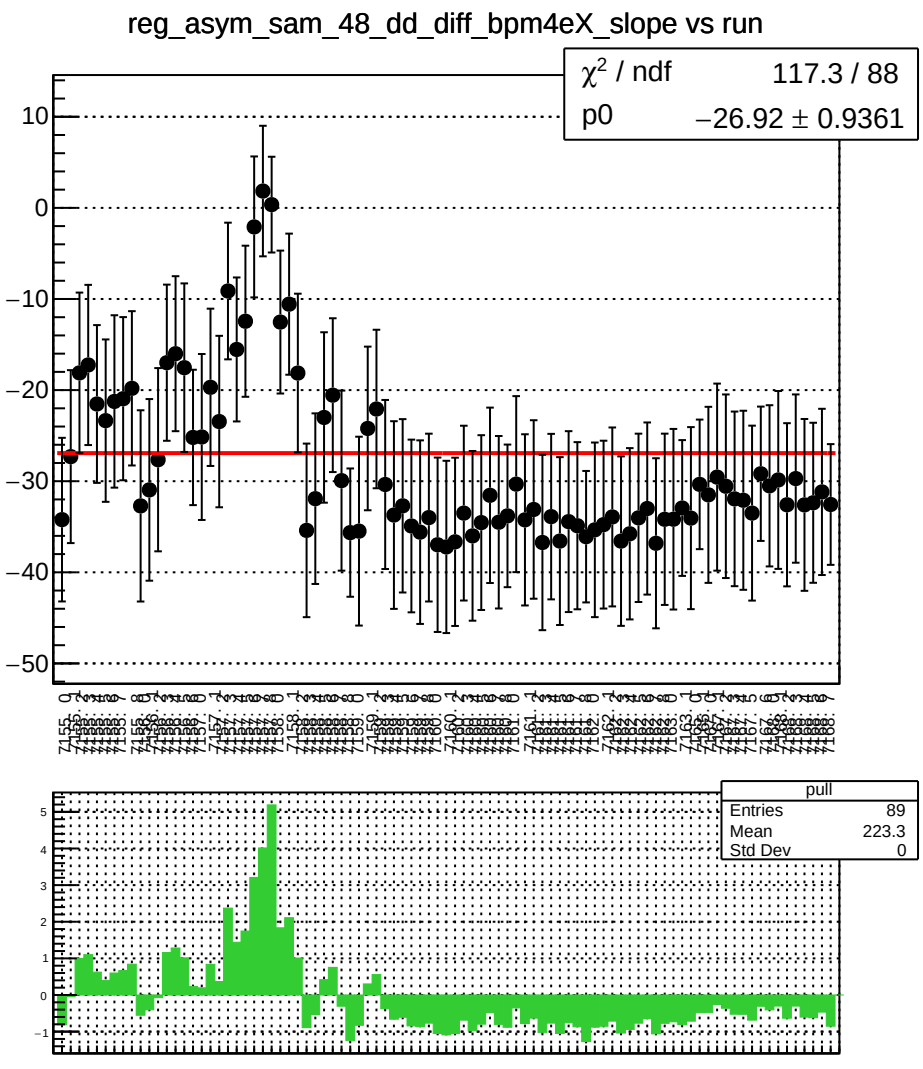

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 300.3 / 88
p0 −59.66 ± 1.095
pull
Entries 89
Mean 232.3
Std Dev 0
pull1D
Entries 89
Mean −0.238
Std Dev 1.595

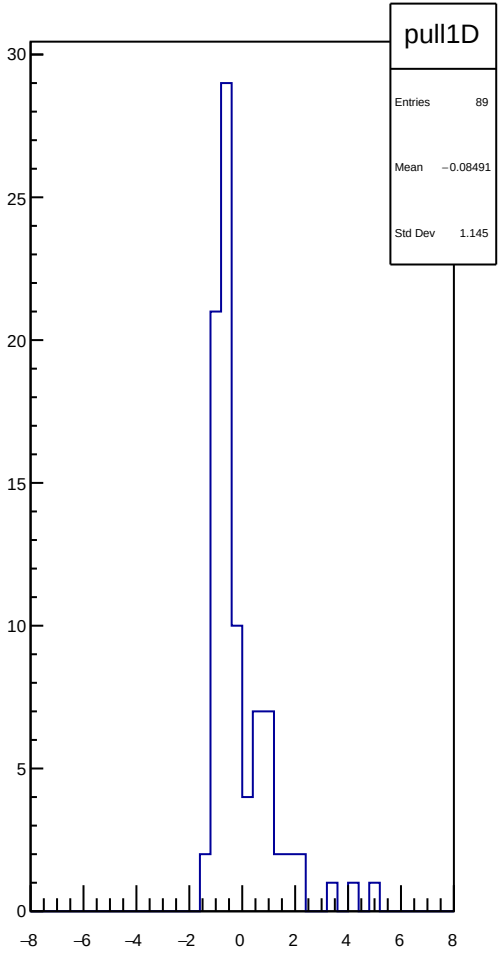

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.4 / 88
p0 96.12 ± 0.9917
120
110
100
90
80
70
60
pull
Entries 89
Mean 490.1
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 89
Mean 0.03457
Std Dev 1.108
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

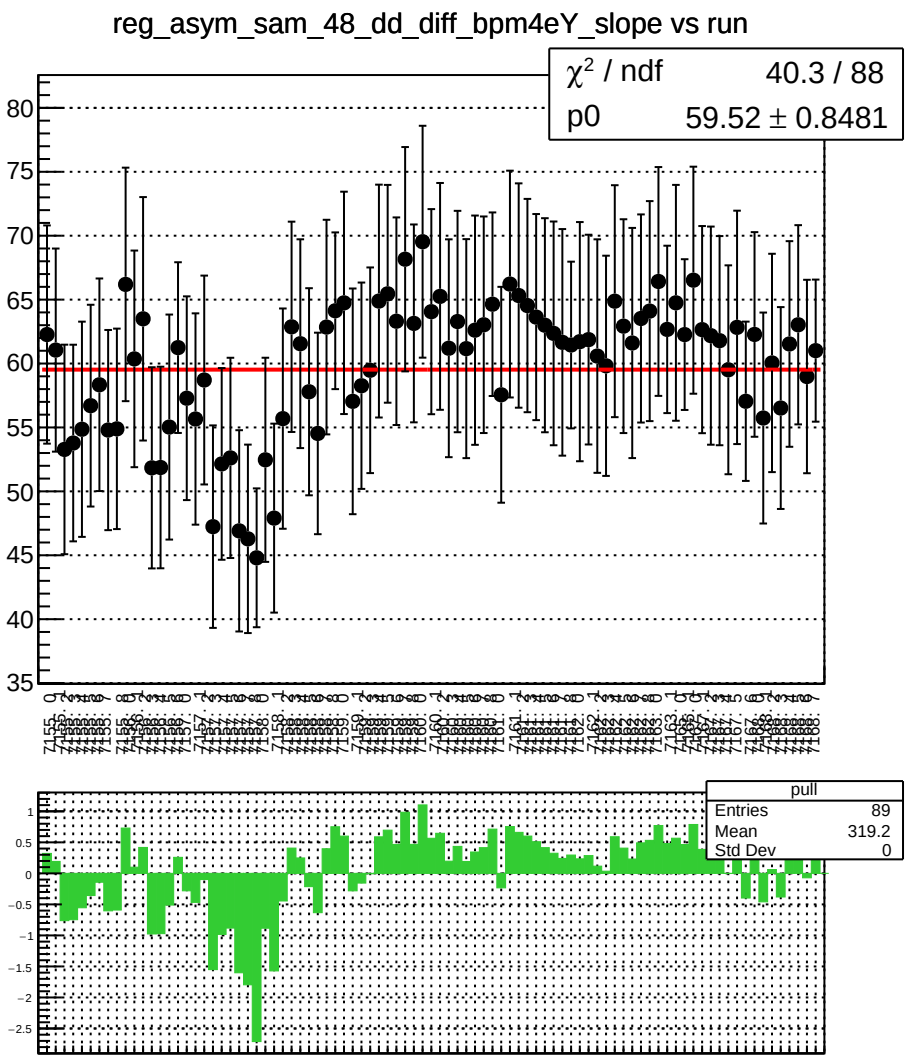

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 17.09 / 88
p0 −0.8912 ± 0.03735
pull
Entries 89
Mean −1972
Std Dev 0
pull1D
Entries 89
Mean −0.001669
Std Dev 0.4382

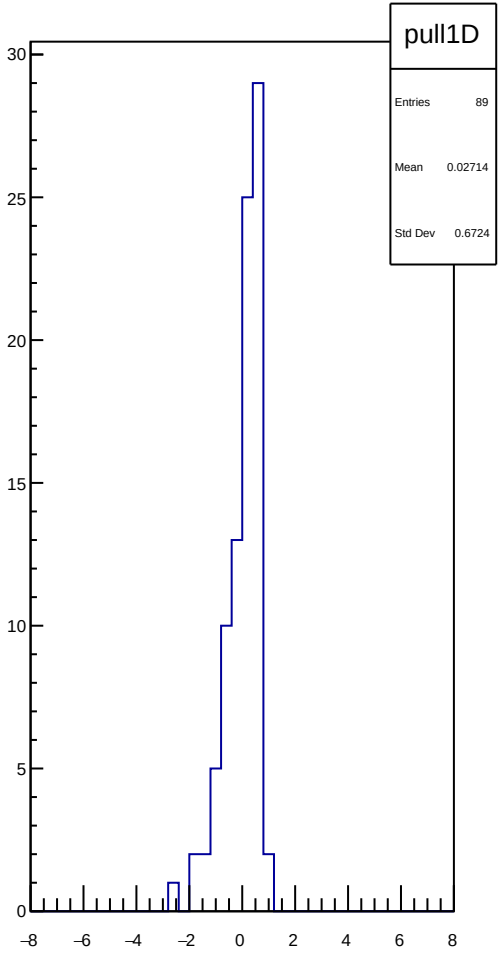

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 141.9 / 88
p0 −35.91 ± 0.9239
pull
Entries 89
Mean 221.3
Std Dev 0
pull1D
Entries 89
Mean 0.09437
Std Dev 1.259

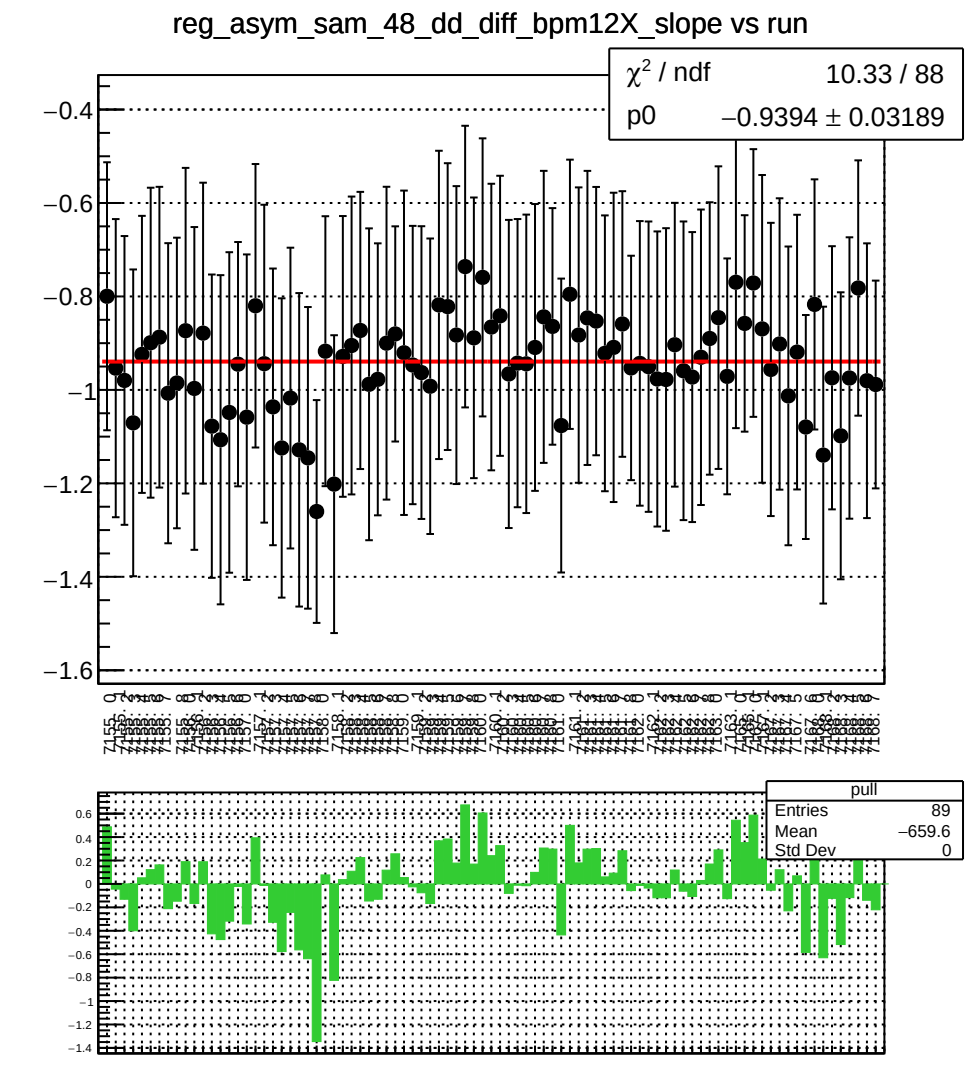

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 46.55 / 88
p0 37.82 ± 0.7307
pull
Entries 89
Mean 783.9
Std Dev 0
pull1D
Entries 89
Mean −0.01306
Std Dev 0.7231

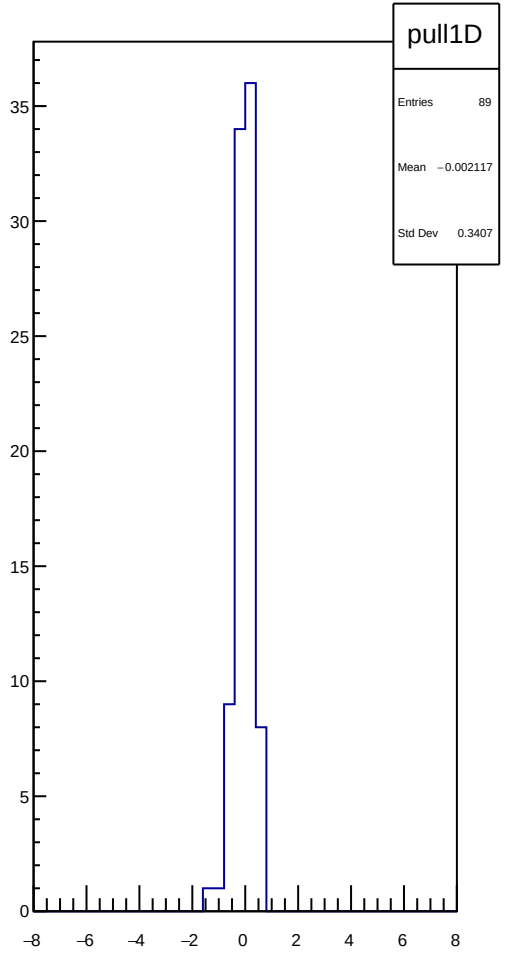

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.3 / 88
p0 −26.92 ± 0.9361
pull
Entries 89
Mean 223.3
Std Dev 0

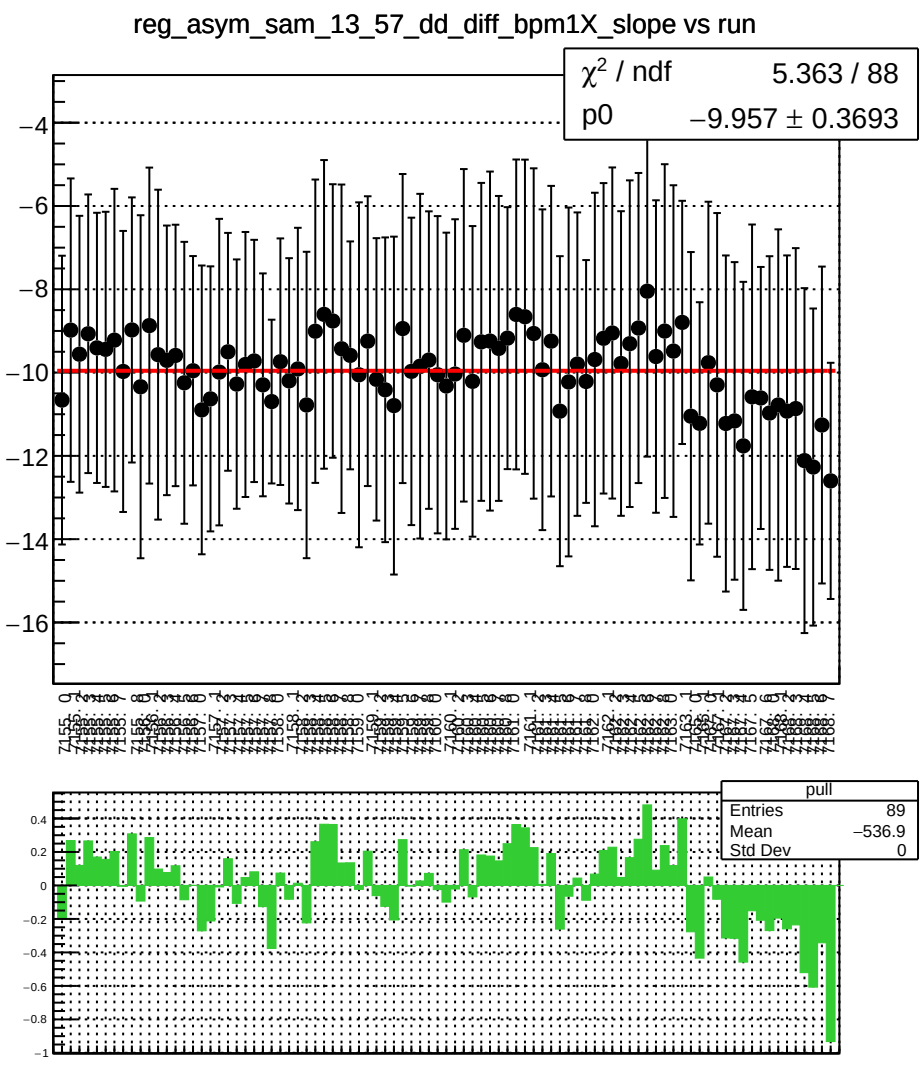

pull1D
Entries 89
Mean −0.08491
Std Dev 1.145

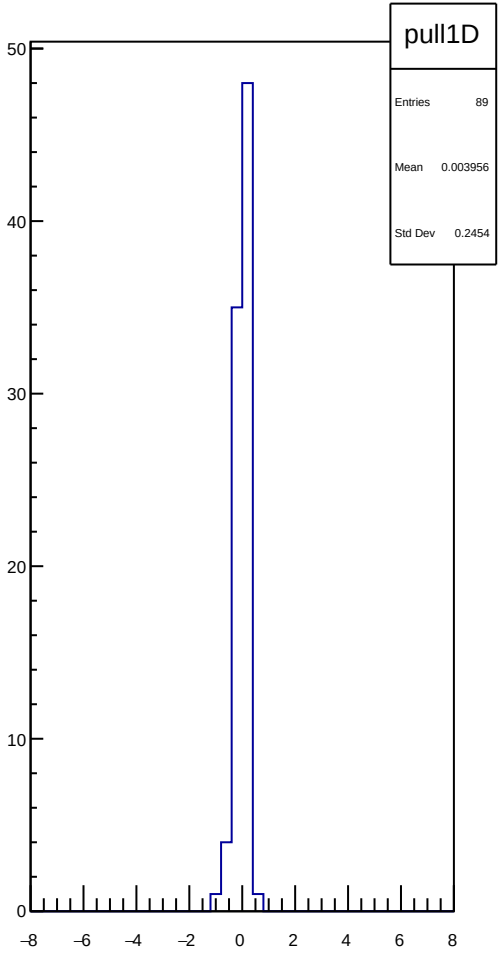

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 40.3 / 88
p0 59.52 ± 0.8481
pull
Entries 89
Mean 319.2
Std Dev 0

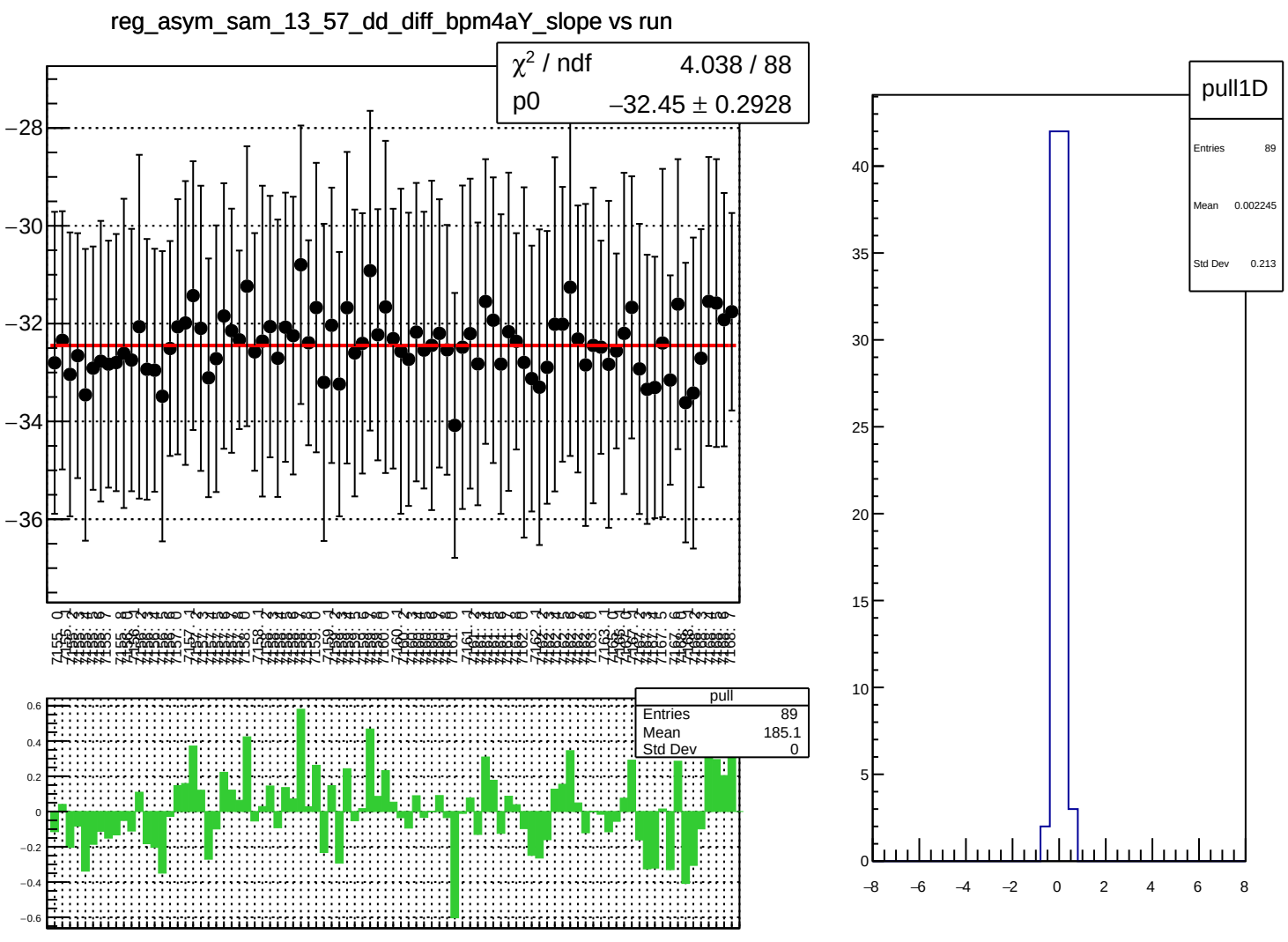

pull1D
Entries 89
Mean 0.02714
Std Dev 0.6724

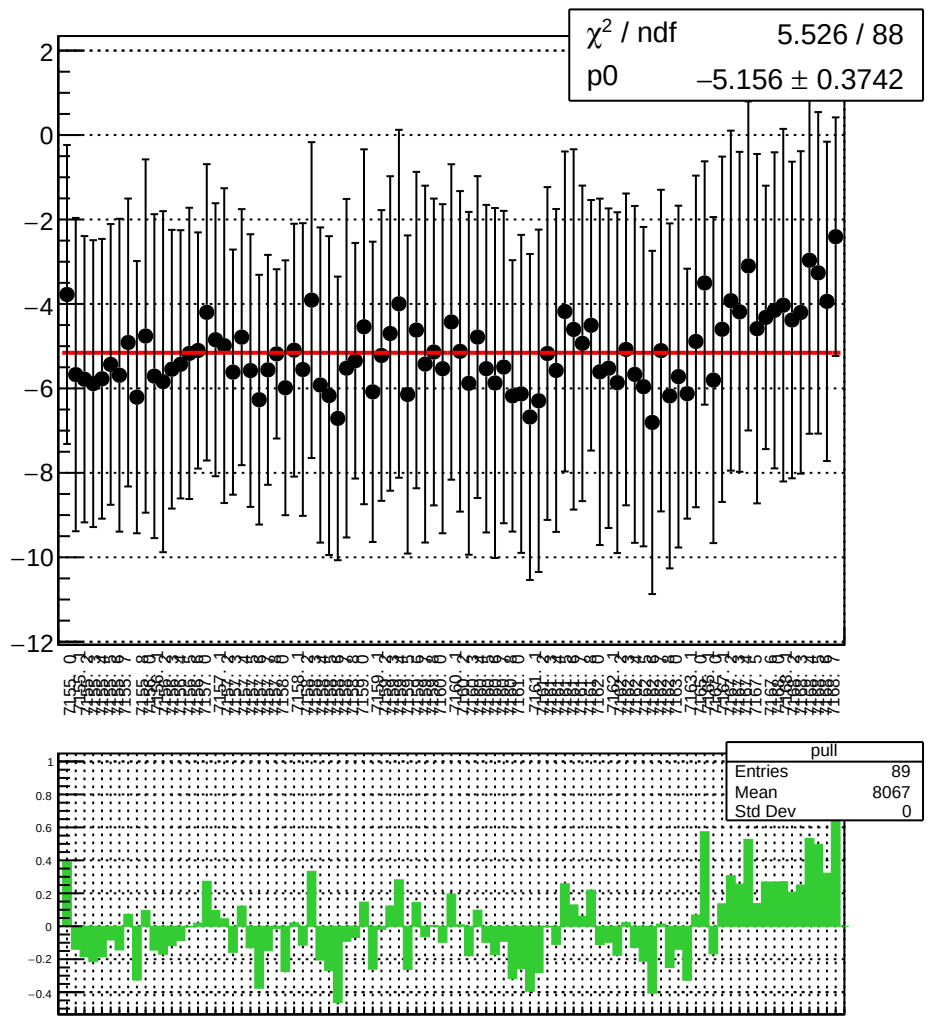

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 10.33 / 88
p0 −0.9394 ± 0.03189
pull
Entries 89
Mean −659.6
Std Dev 0

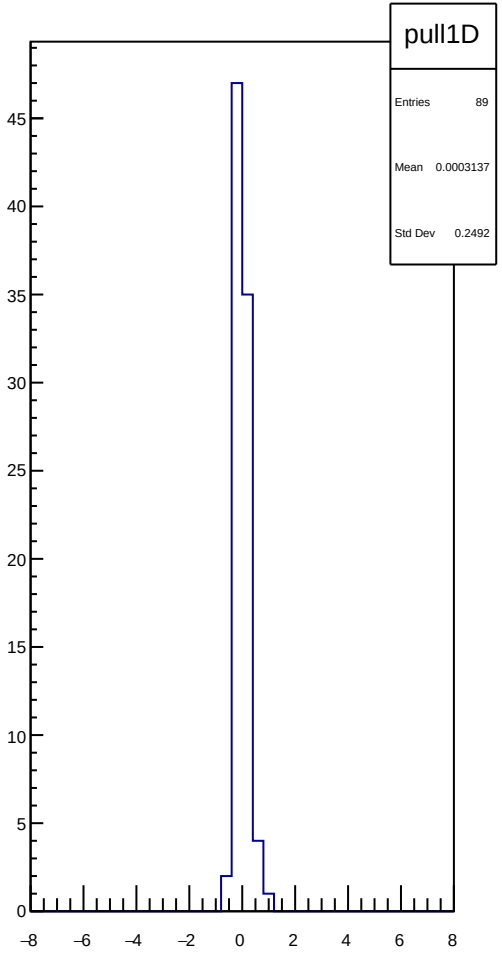

pull1D
Entries 89
Mean −0.002117
Std Dev 0.3407

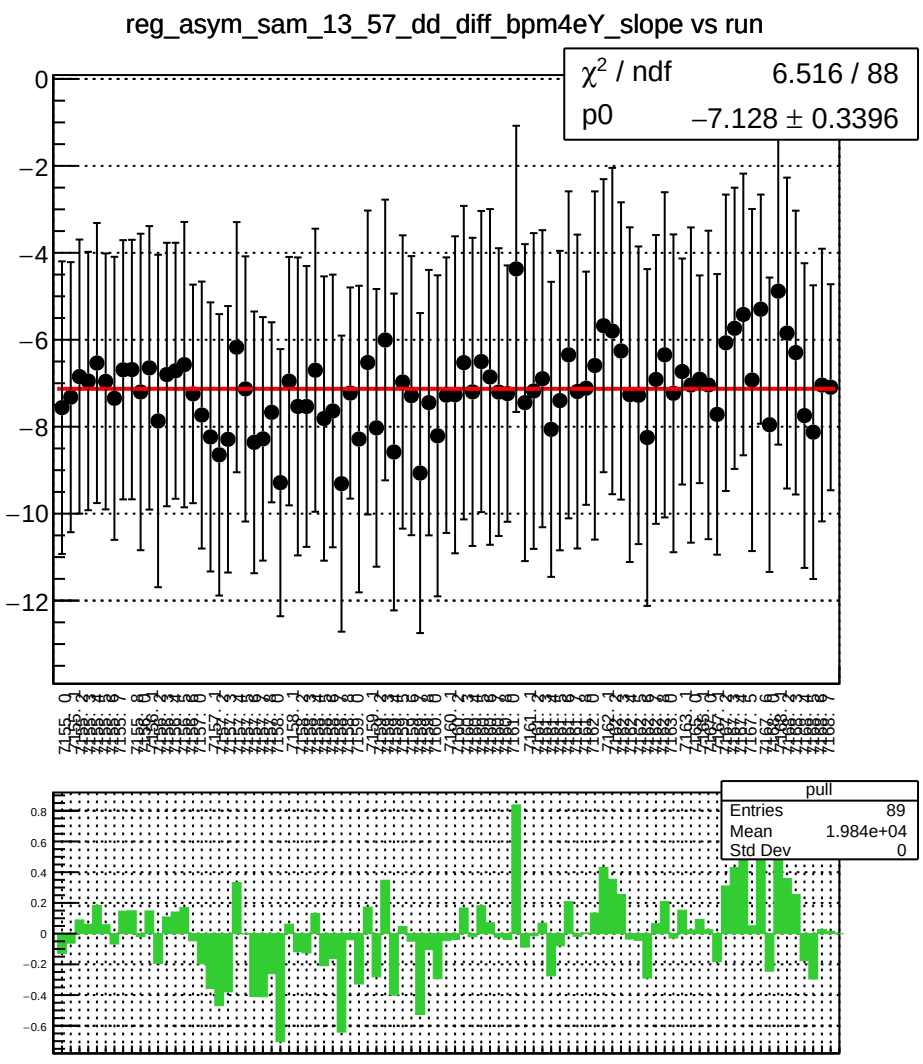

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.363 / 88
p0 −9.957 ± 0.3693
pull
Entries 89
Mean −536.9
Std Dev 0

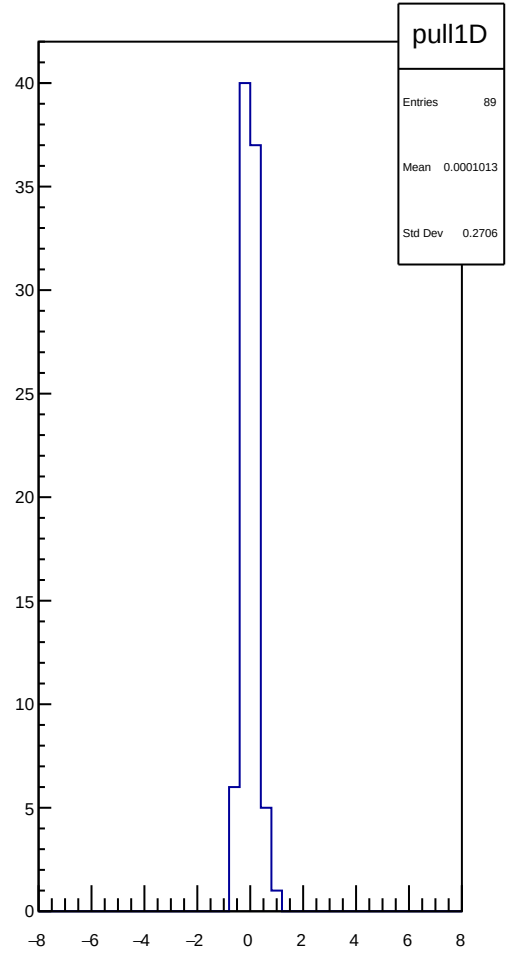

pull1D
Entries 89
Mean 0.003956
Std Dev 0.2454

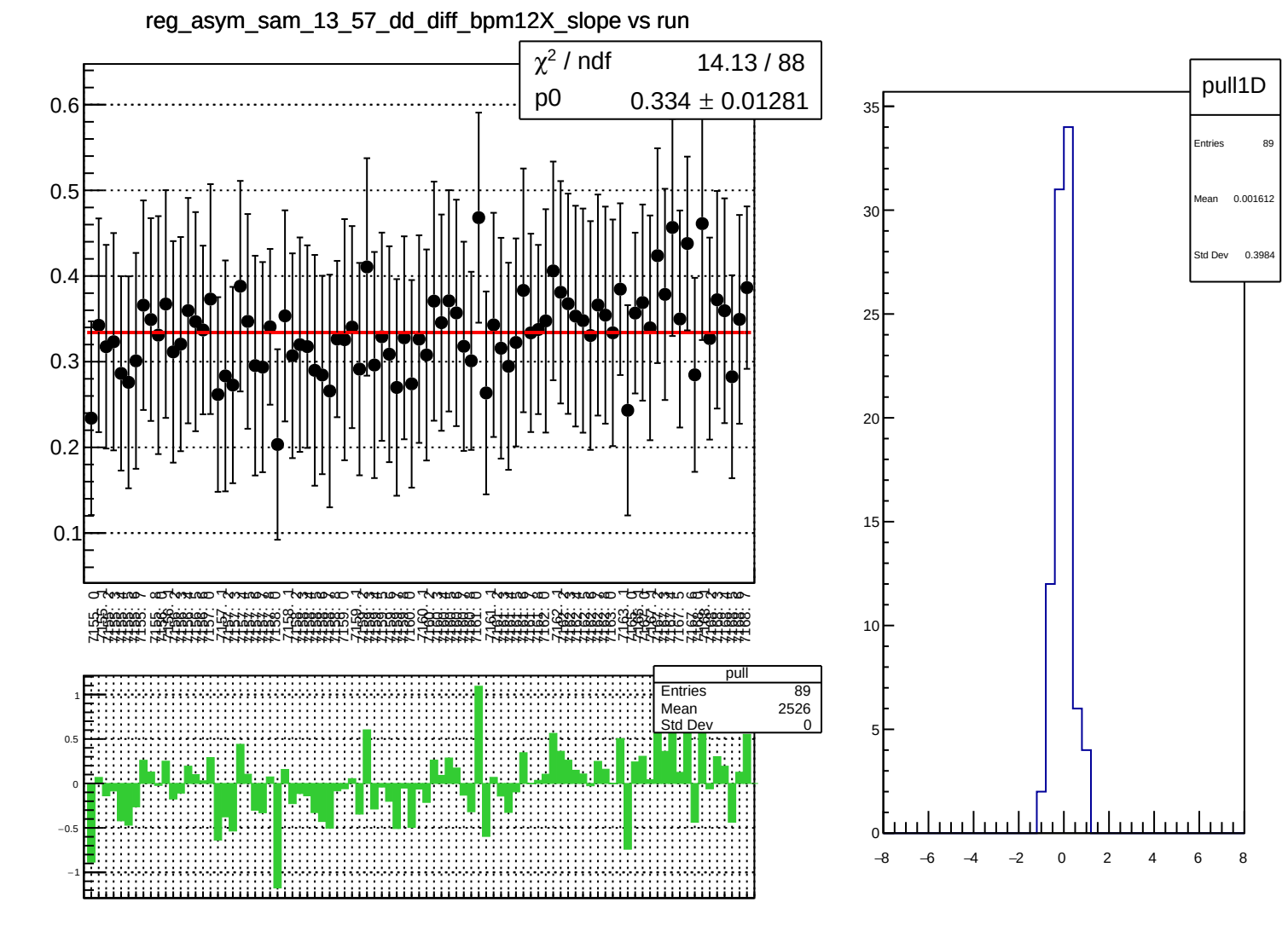

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.038 / 88
p0 −32.45 ± 0.2928
−28
−30
−32
−34
−36
pull
Entries 89
Mean 185.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean 0.002245
Std Dev 0.213
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

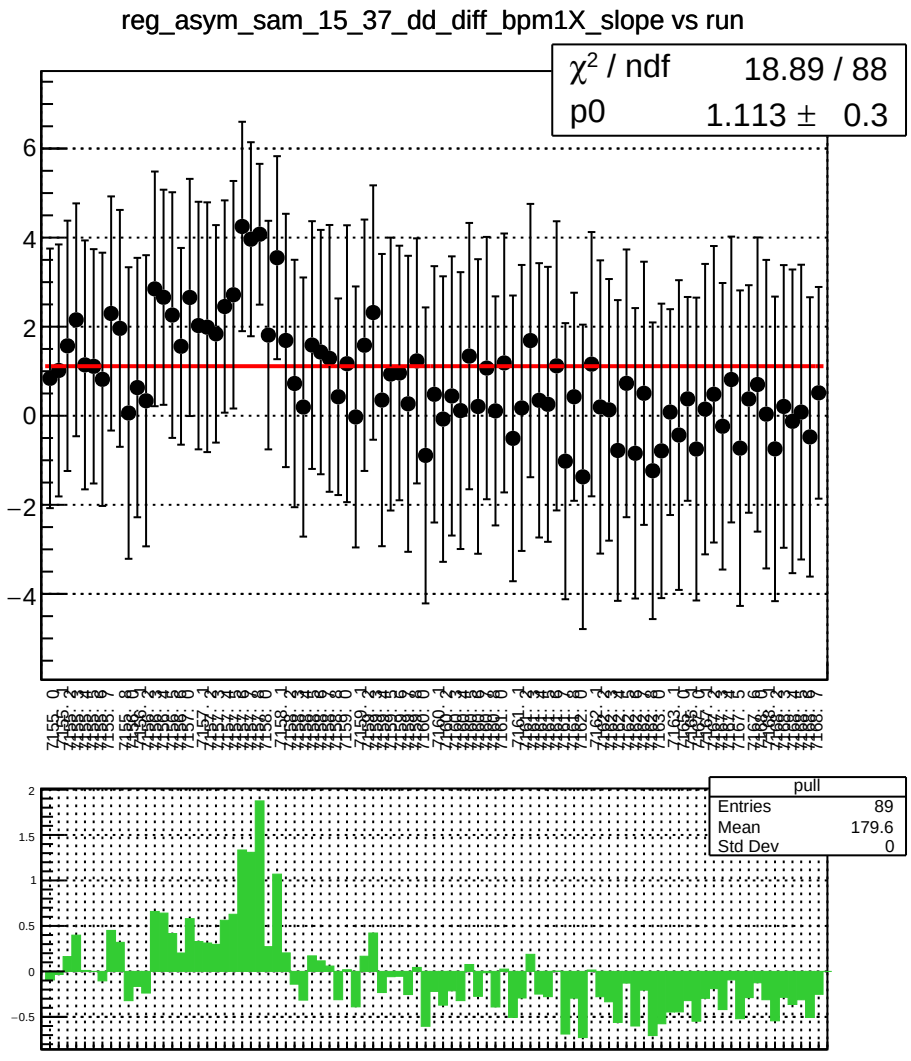

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.526 / 88
p0 −5.156 ± 0.3742
pull
Entries 89
Mean 8067
Std Dev 0

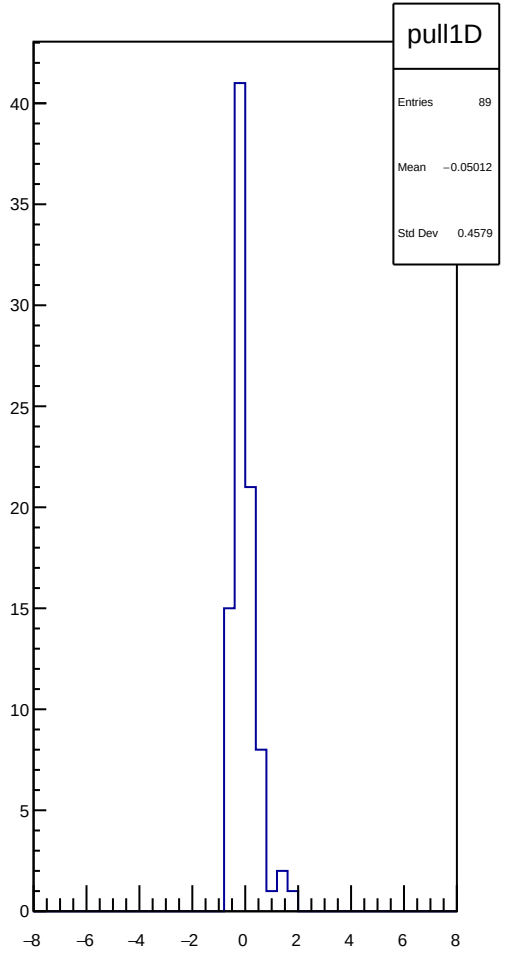

pull1D
Entries 89
Mean 0.0003137
Std Dev 0.2492

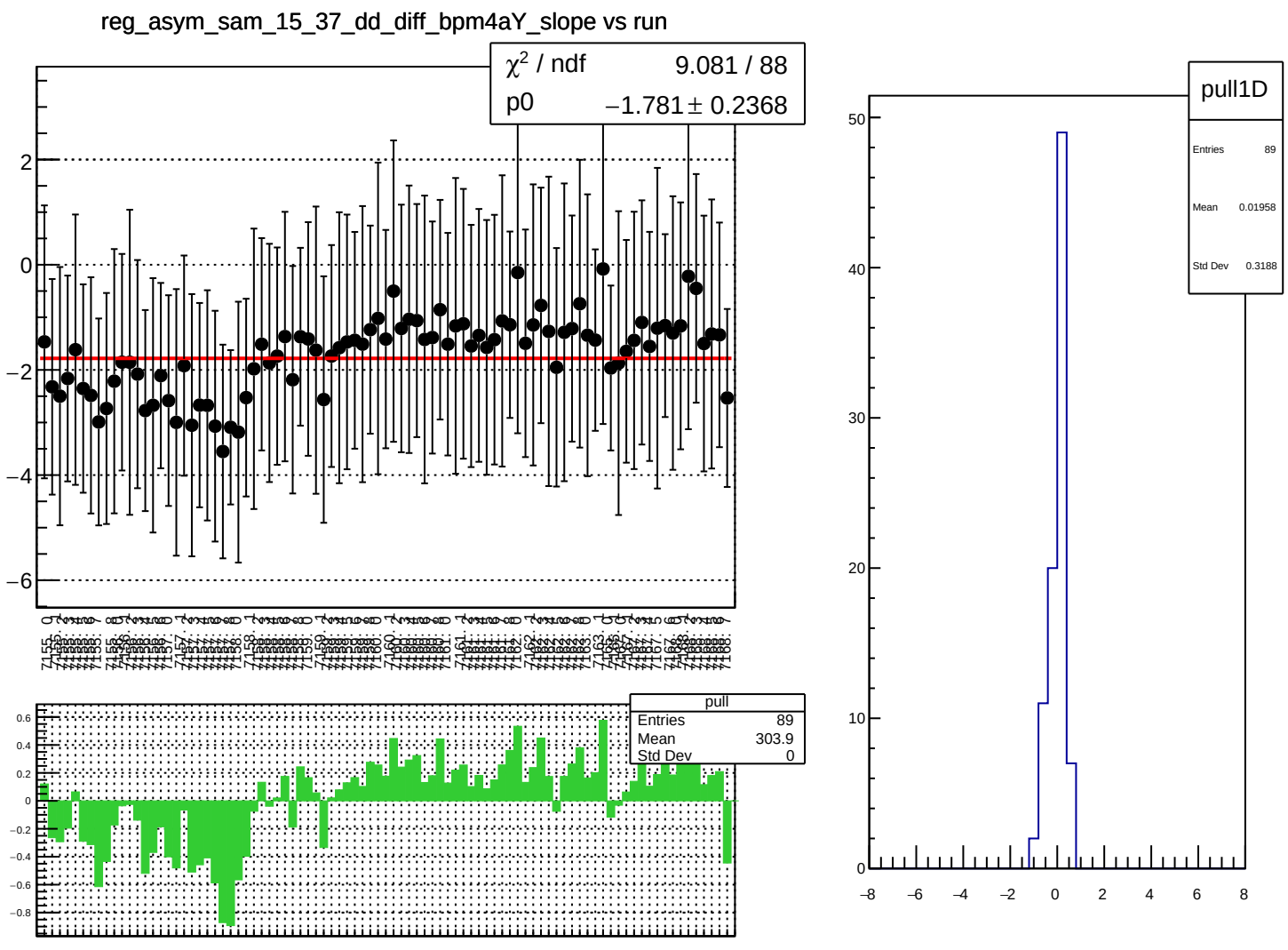

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.516 / 88
p0 −7.128 ± 0.3396
pull
Entries 89
Mean 1.984e+04
Std Dev 0

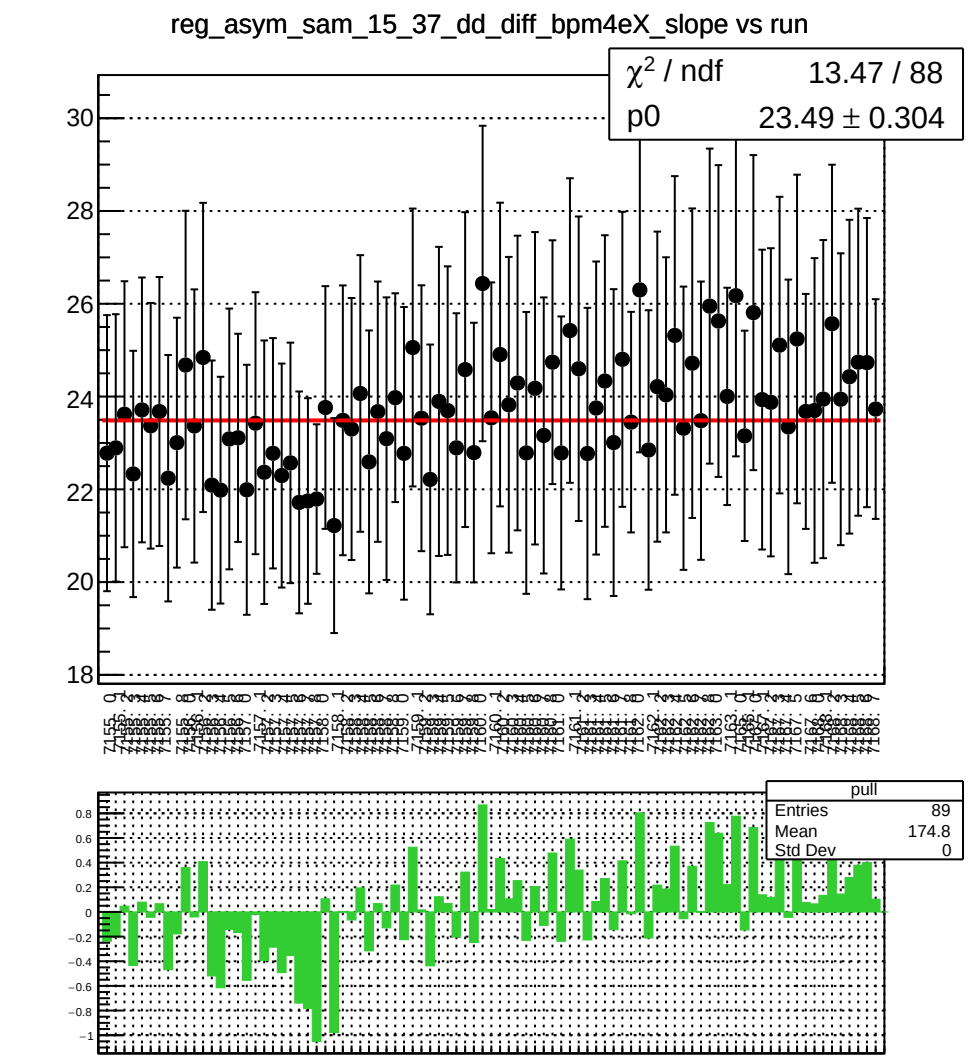

pull1D
Entries 89
Mean 0.0001013
Std Dev 0.2706

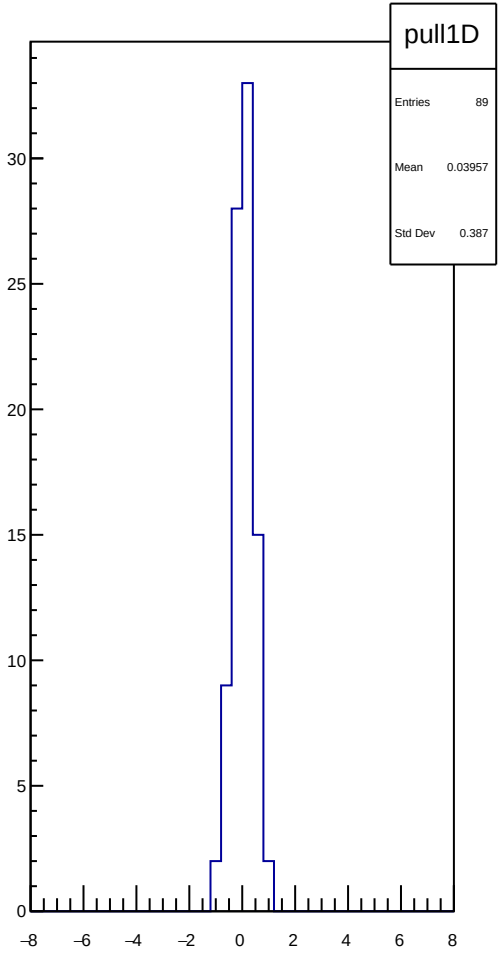

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 14.13 / 88
p0 0.334 ± 0.01281
pull
Entries 89
Mean 2526
Std Dev 0
pull1D
Entries 89
Mean 0.001612
Std Dev 0.3984

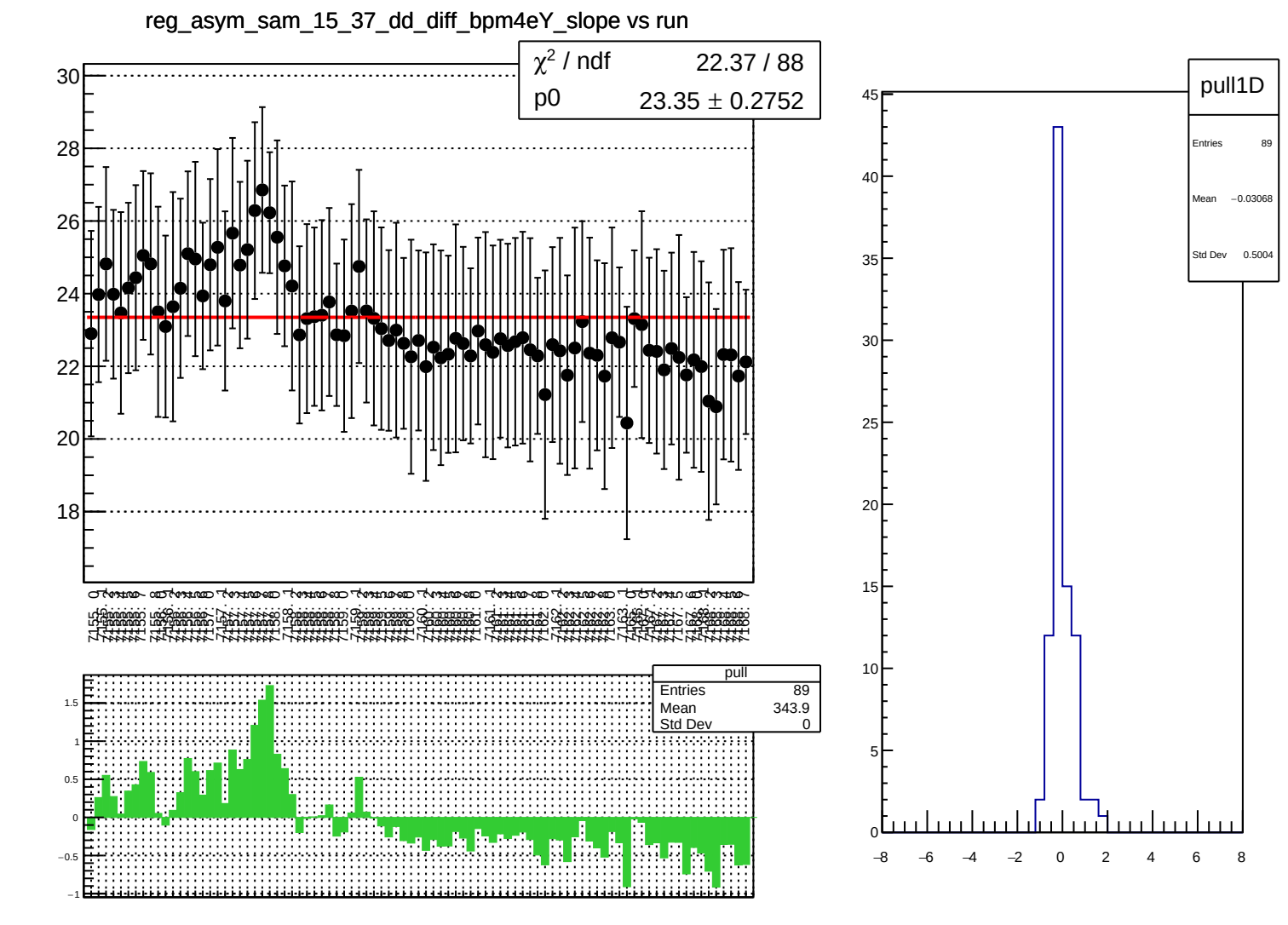

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 18.89 / 88
p0 1.113 ± 0.3
pull
Entries 89
Mean 179.6
Std Dev 0

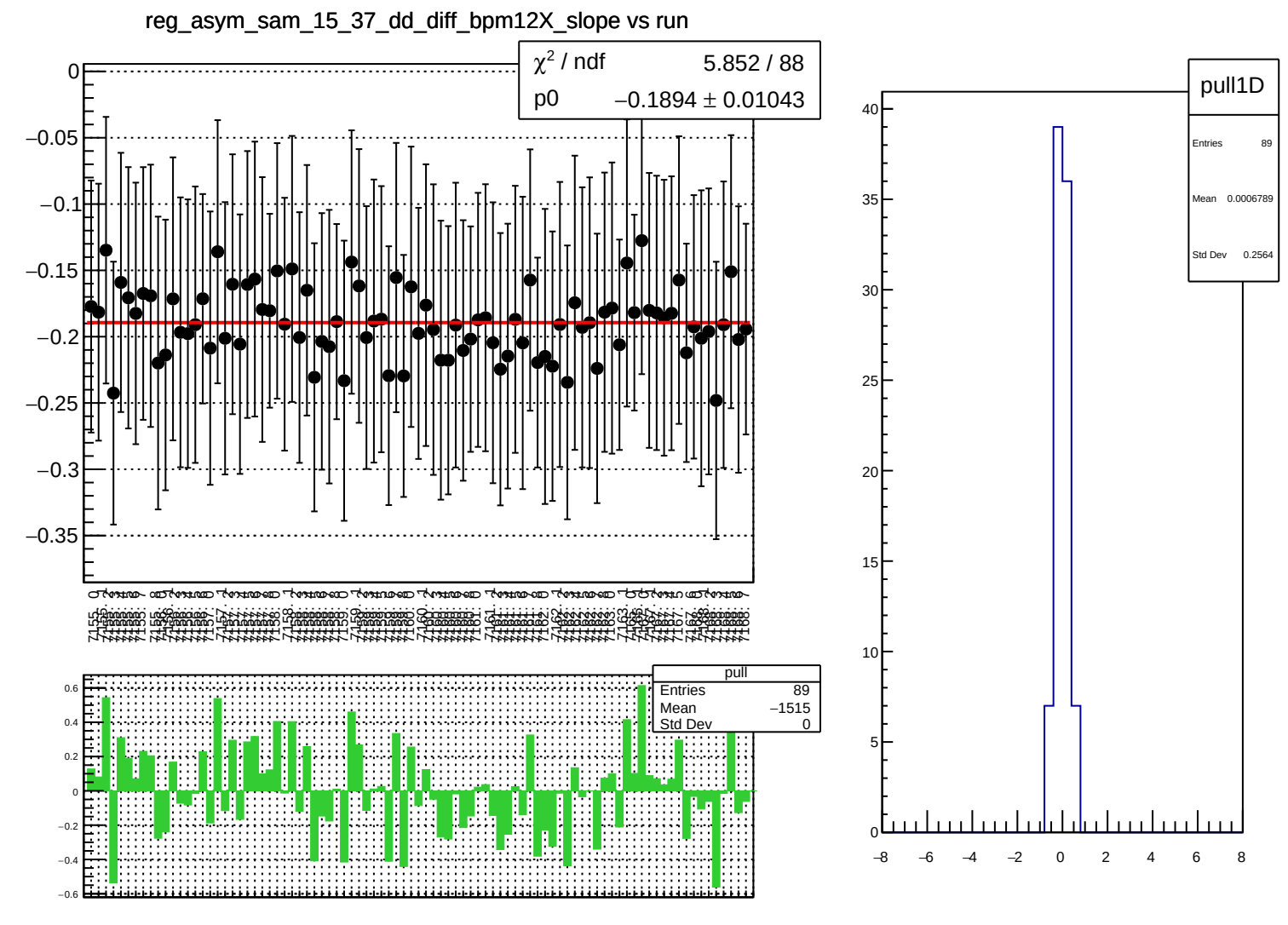

pull1D
Entries 89
Mean −0.05012
Std Dev 0.4579

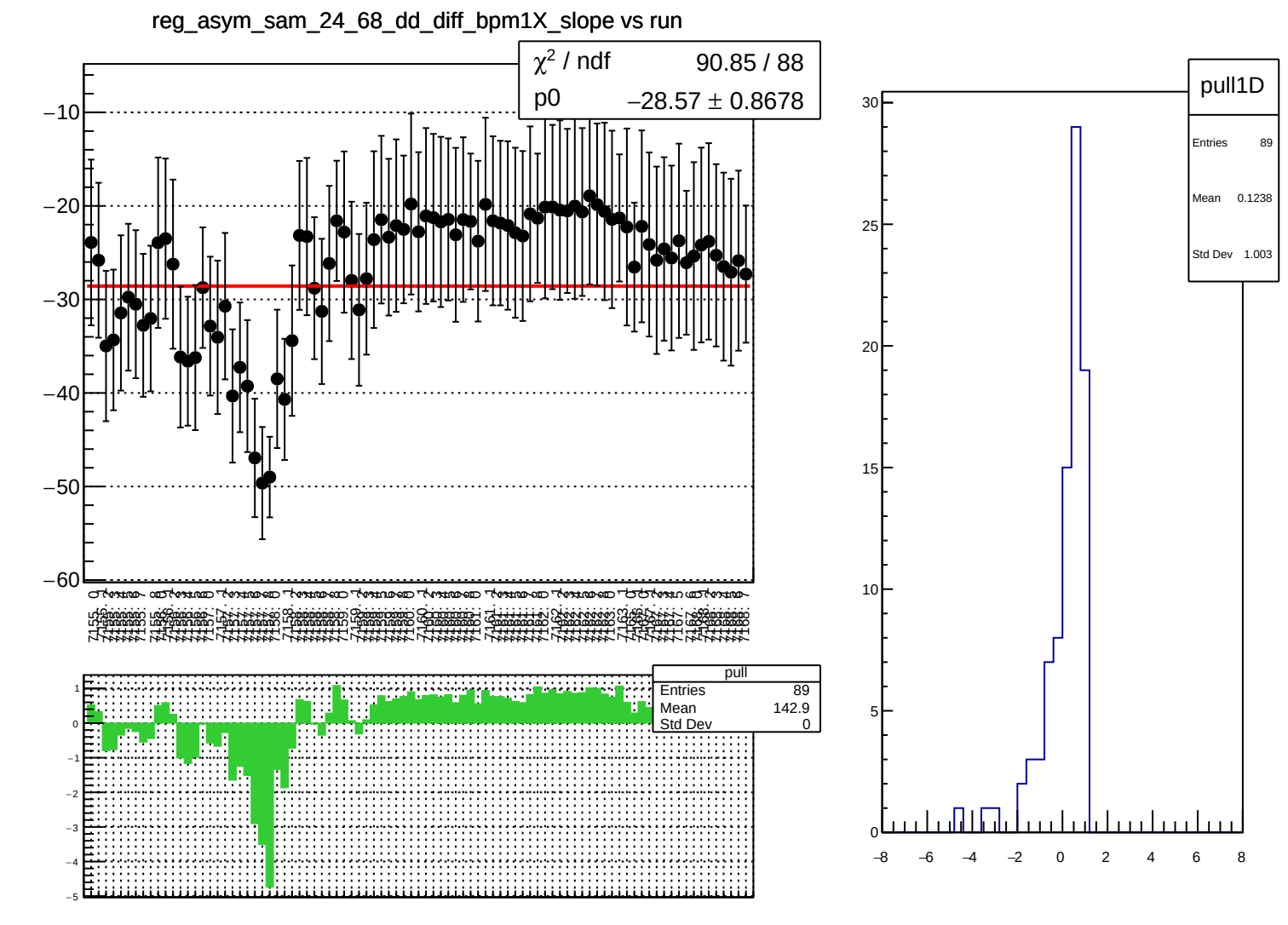

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.081 / 88
p0 −1.781 ± 0.2368
pull
Entries 89
Mean 303.9
Std Dev 0
pull1D
Entries 89
Mean 0.01958
Std Dev 0.3188

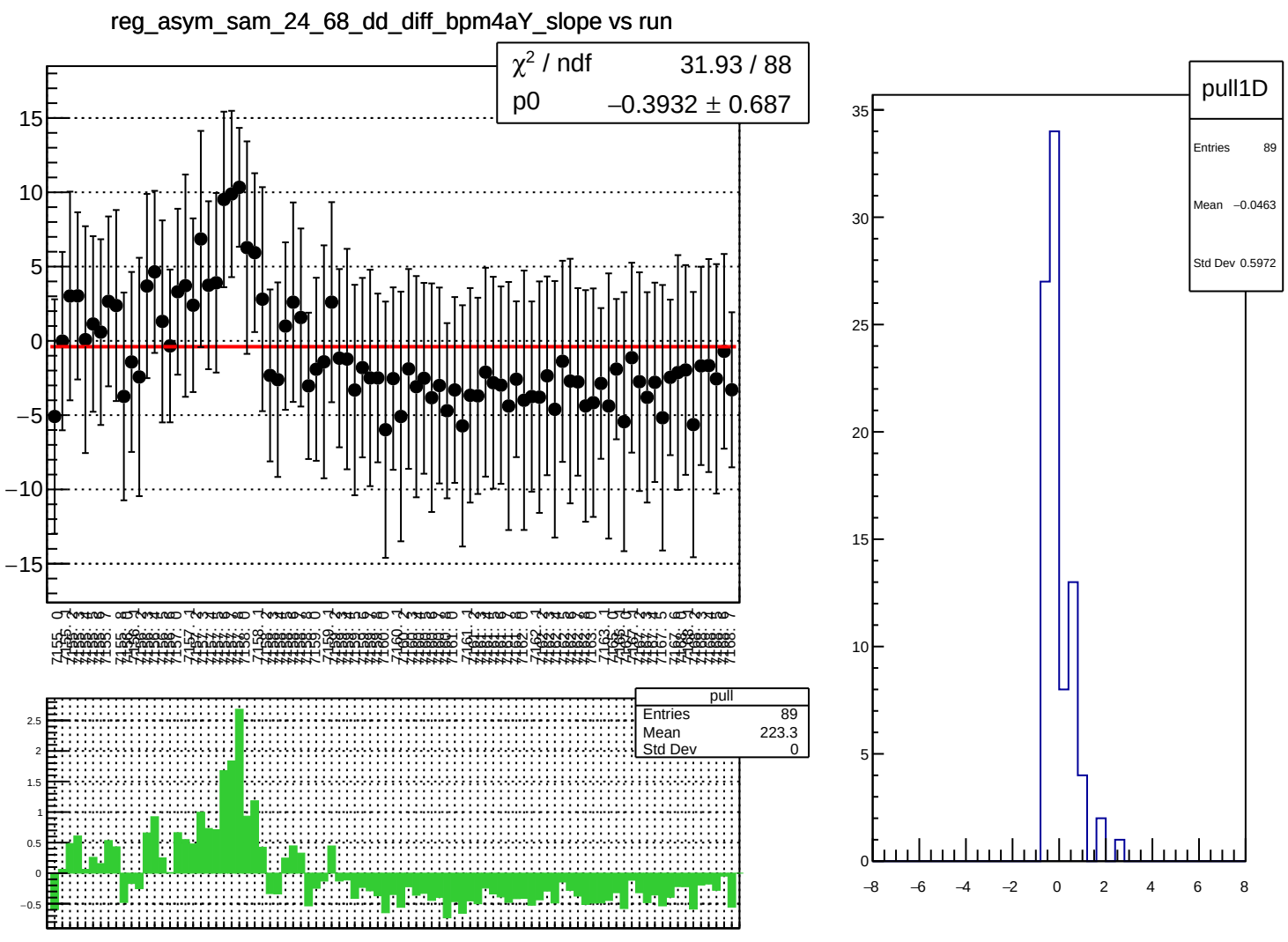

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.47 / 88
p0 23.49 ± 0.304
pull
Entries 89
Mean 174.8
Std Dev 0

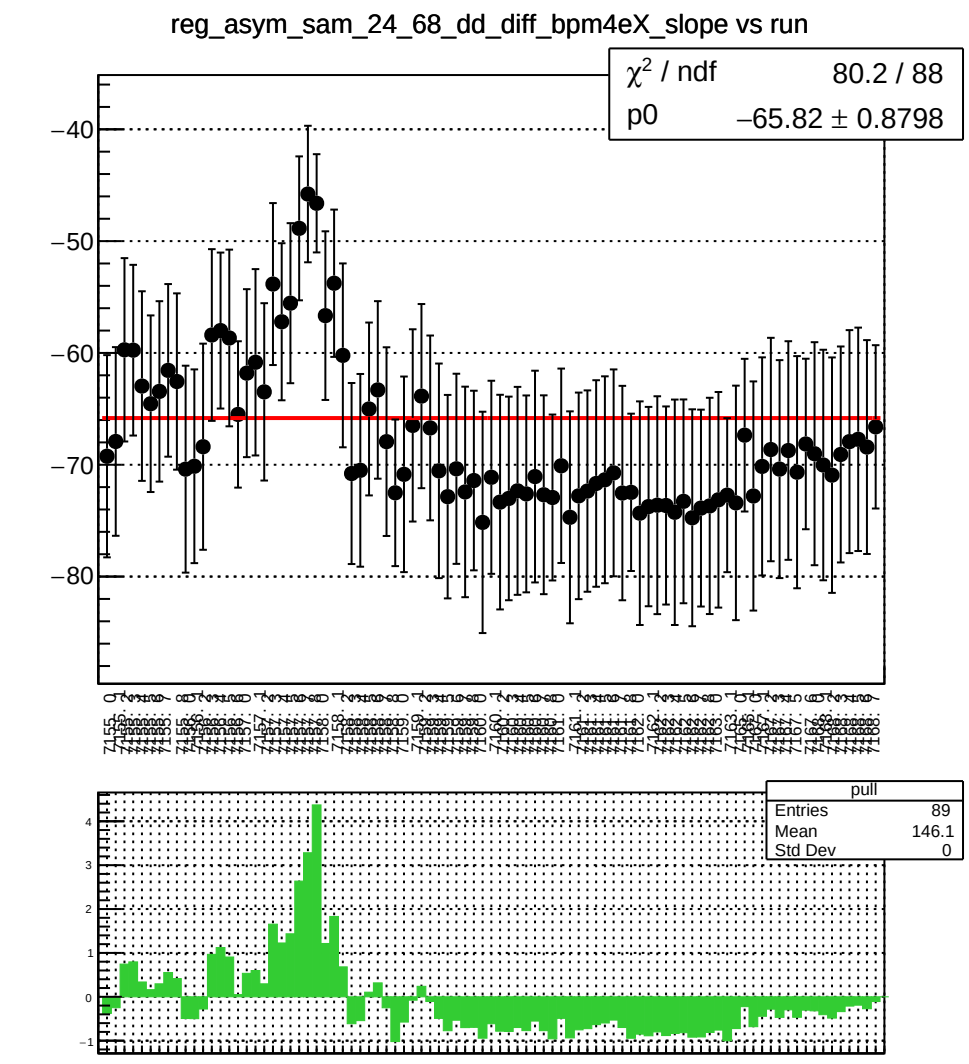

pull1D
Entries 89
Mean 0.03957
Std Dev 0.387

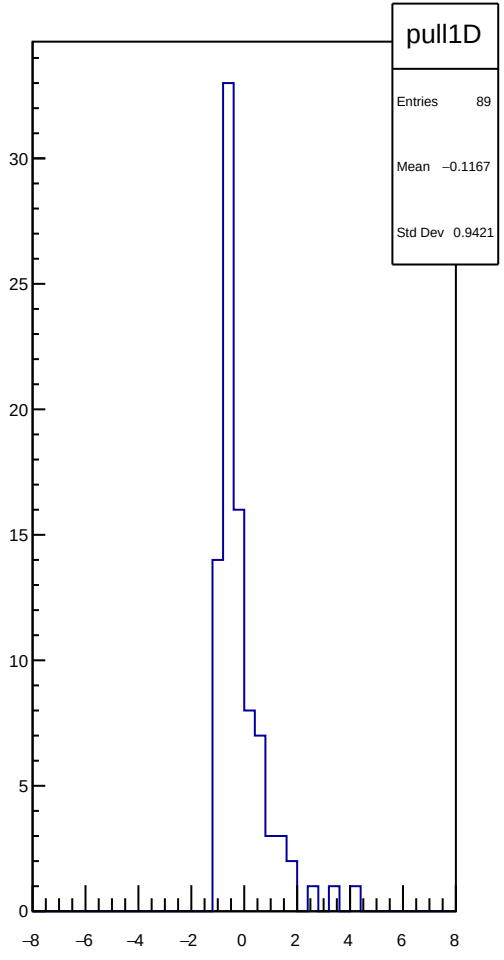

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.37 / 88
p0 23.35 ± 0.2752
pull
Entries 89
Mean 343.9
Std Dev 0
pull1D
Entries 89
Mean −0.03068
Std Dev 0.5004

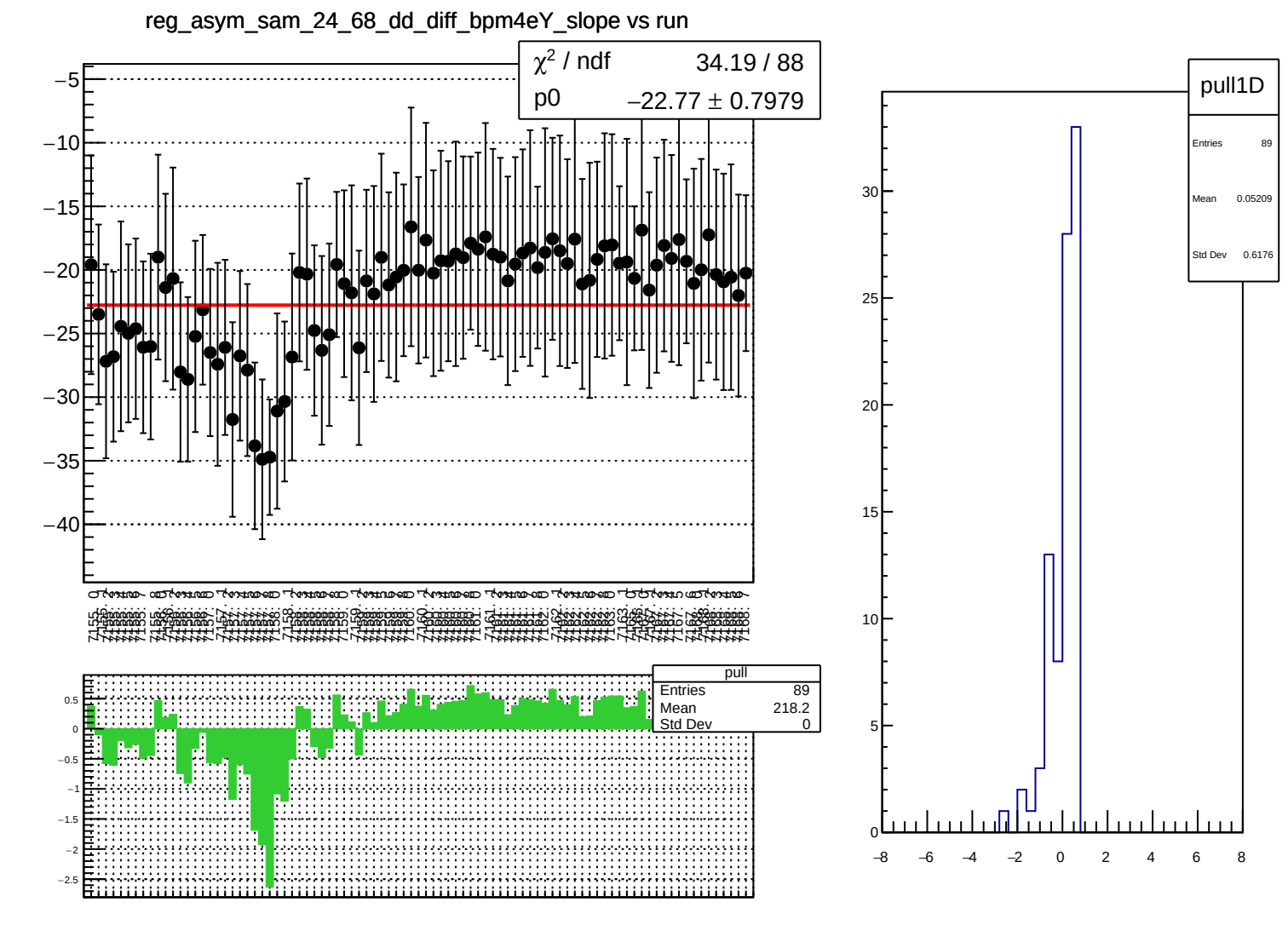

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 5.852 / 88
p0 −0.1894 ± 0.01043
pull
Entries 89
Mean −1515
Std Dev 0
pull1D
Entries 89
Mean 0.0006789
Std Dev 0.2564

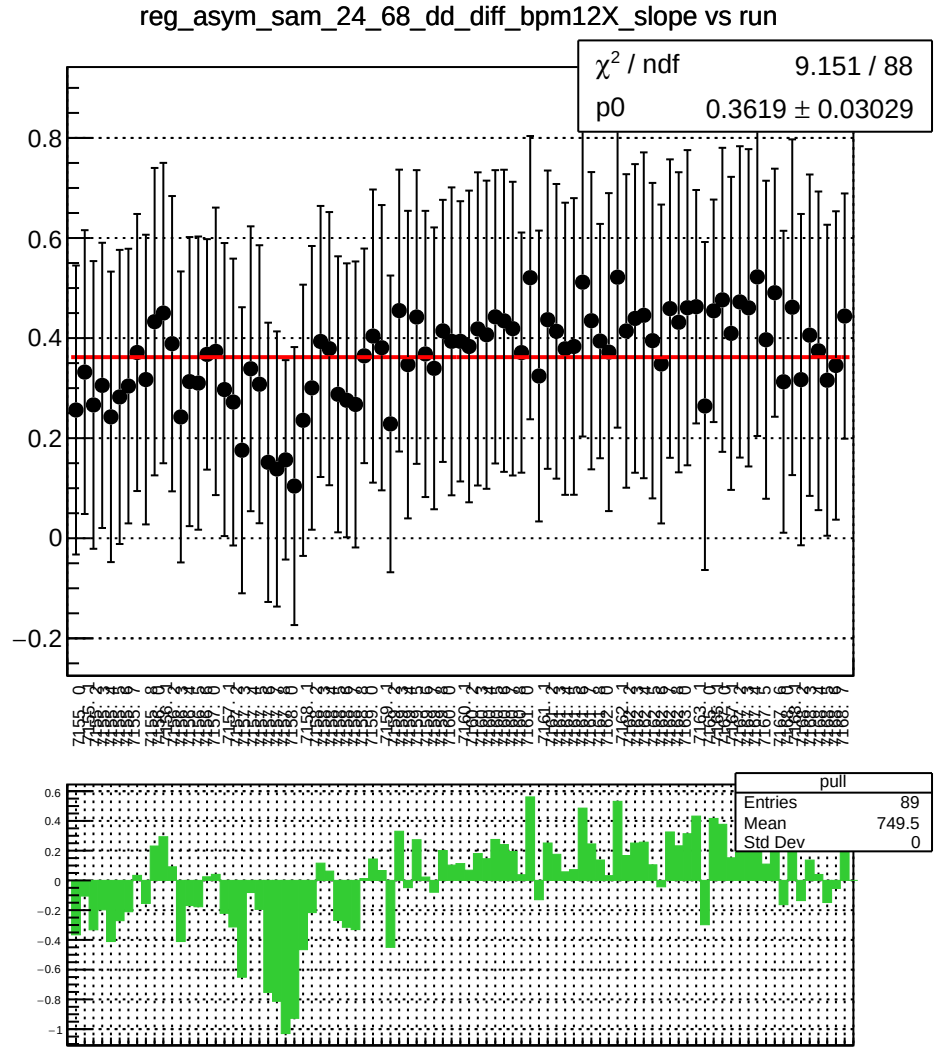

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 90.85 / 88
p0 −28.57 ± 0.8678
pull
Entries 89
Mean 142.9
Std Dev 0
pull1D
Entries 89
Mean 0.1238
Std Dev 1.003

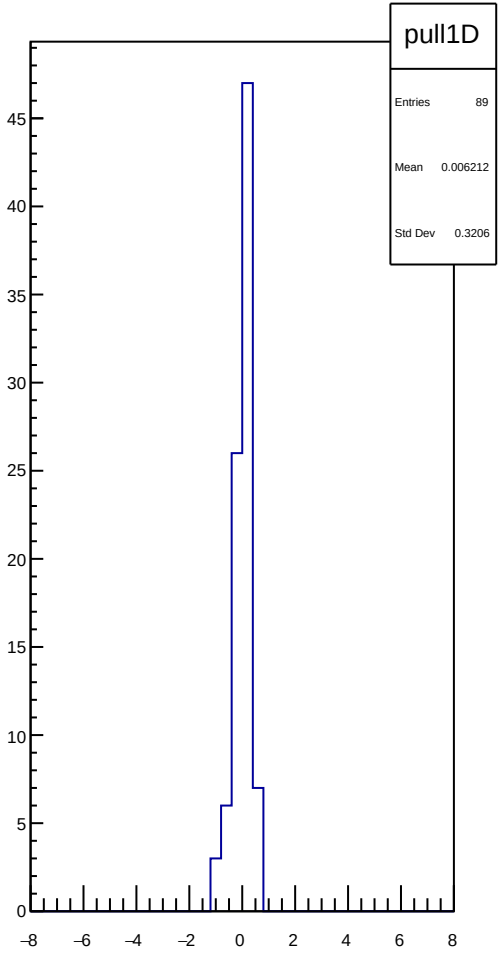

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.93 / 88
p0 −0.3932 ± 0.687
pull
Entries 89
Mean 223.3
Std Dev 0
pull1D
Entries 89
Mean −0.0463
Std Dev 0.5972

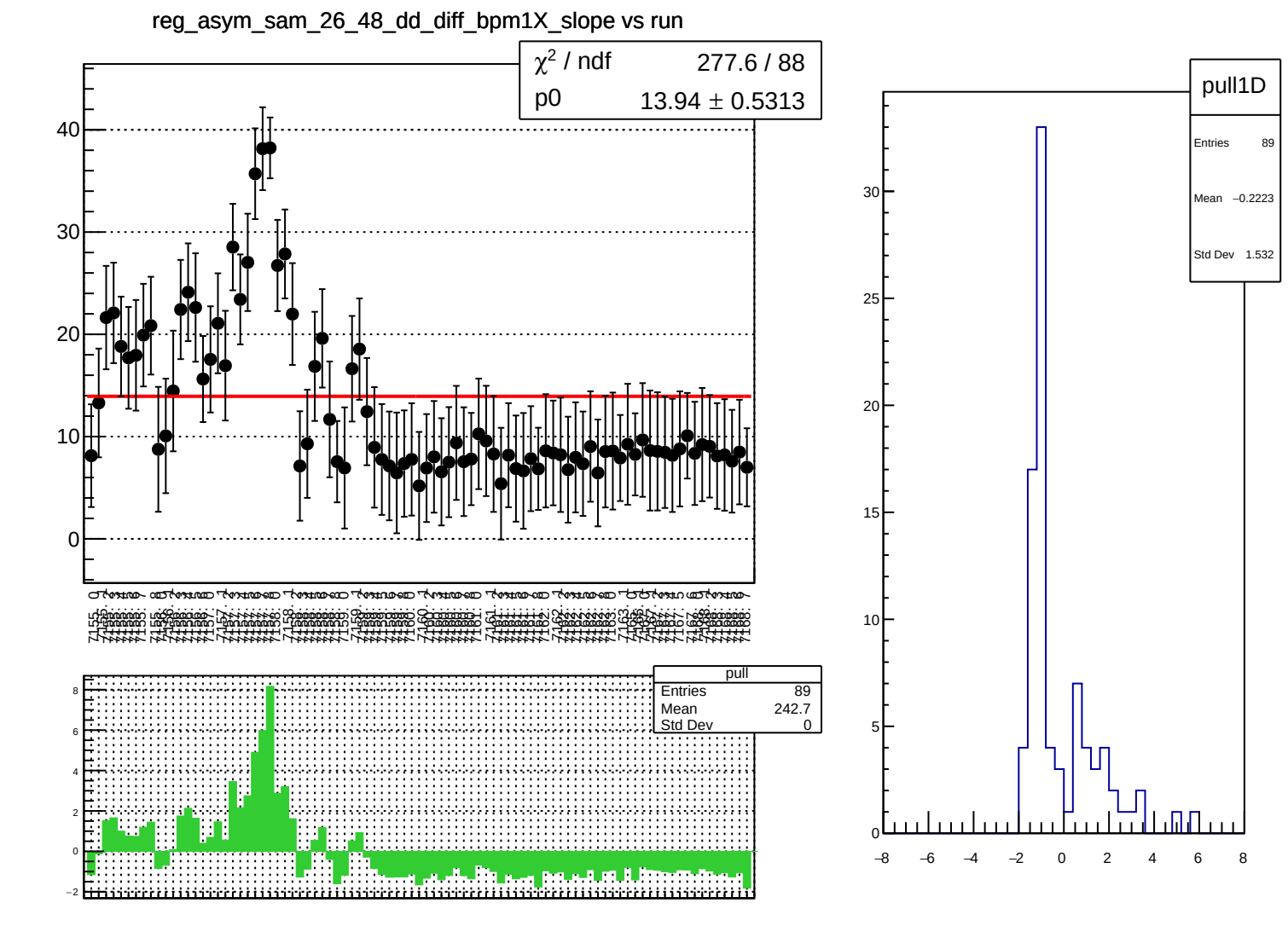

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 80.2 / 88
p0 −65.82 ± 0.8798
−40
−50
−60
−70
−80
pull
Entries 89
Mean 146.1
Std Dev 0
4
3
2
1
0
−1

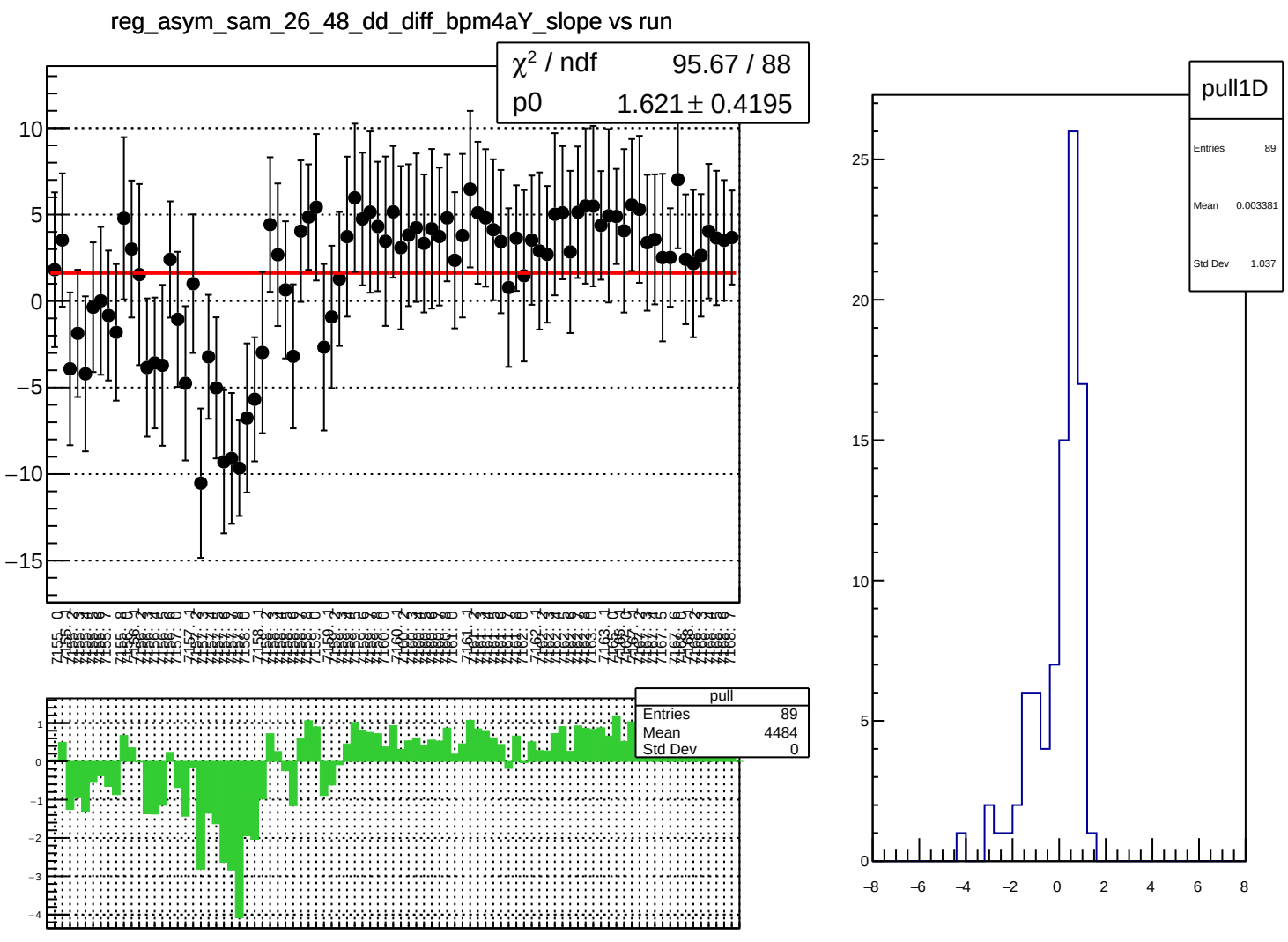

pull1D
Entries 89
Mean −0.1167
Std Dev 0.9421
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

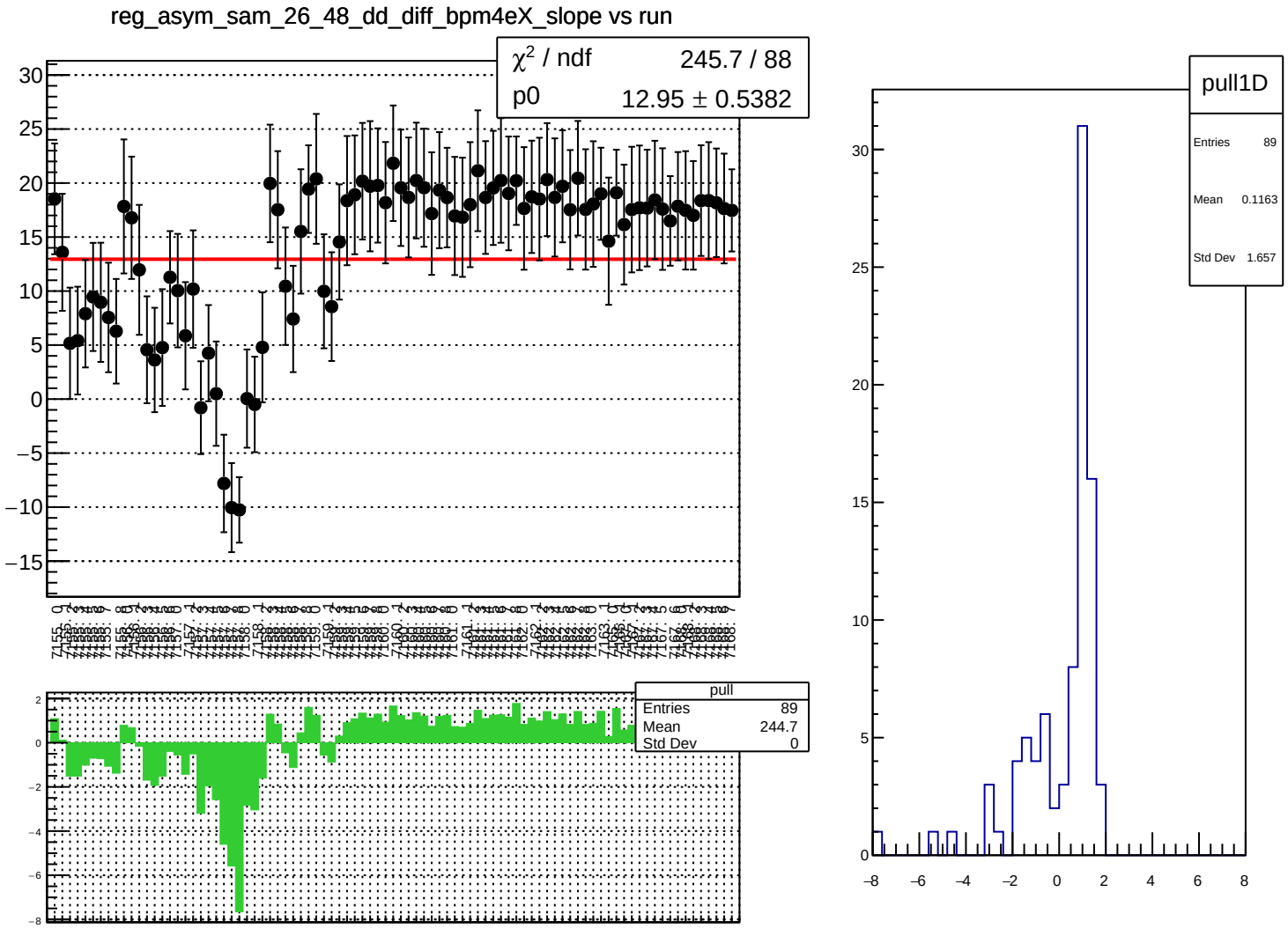

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.19 / 88
p0 −22.77 ± 0.7979
pull
Entries 89
Mean 218.2
Std Dev 0
pull1D
Entries 89
Mean 0.05209
Std Dev 0.6176

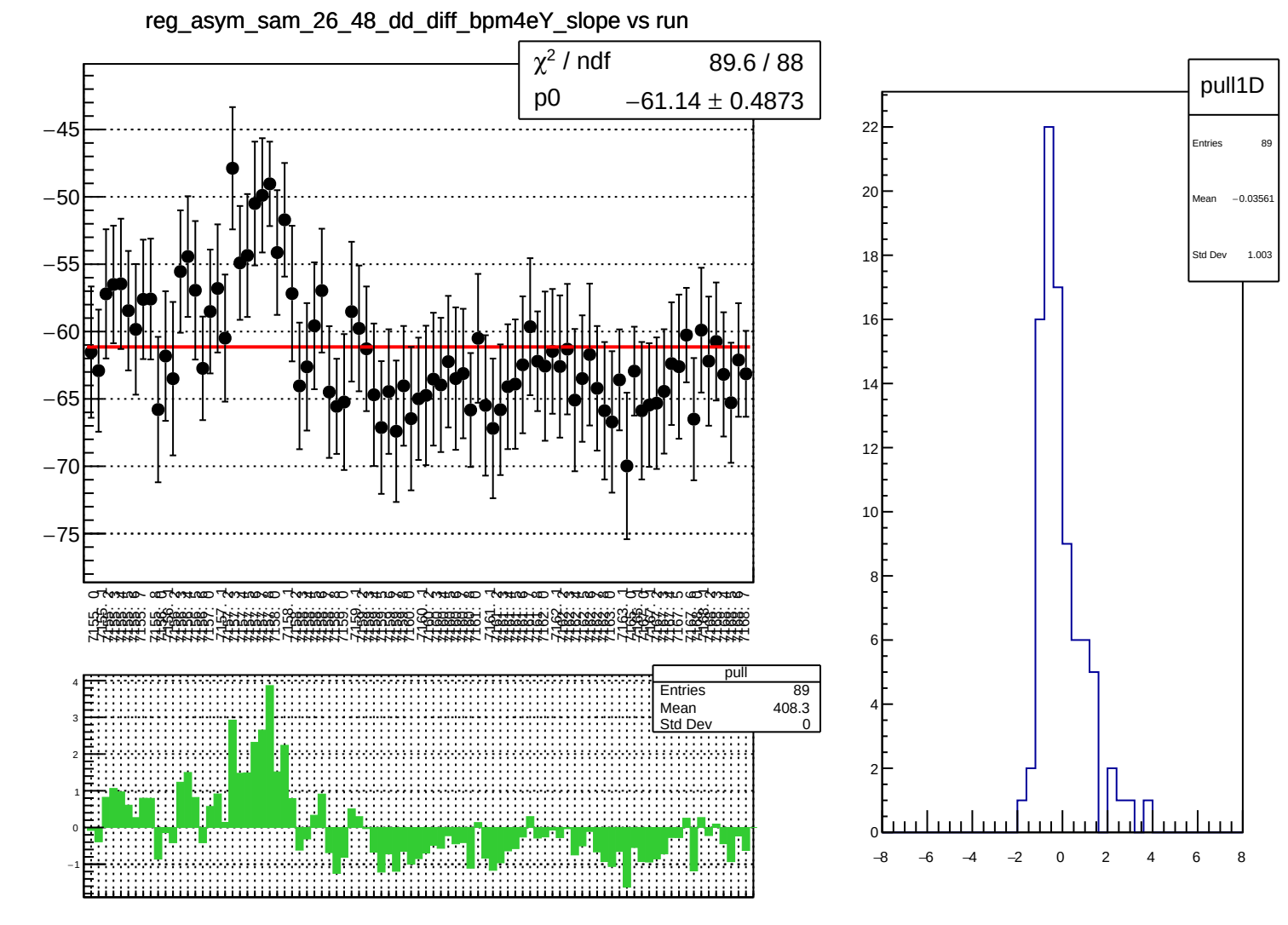

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 9.151 / 88
p0 0.3619 ± 0.03029
pull
Entries 89
Mean 749.5
Std Dev 0

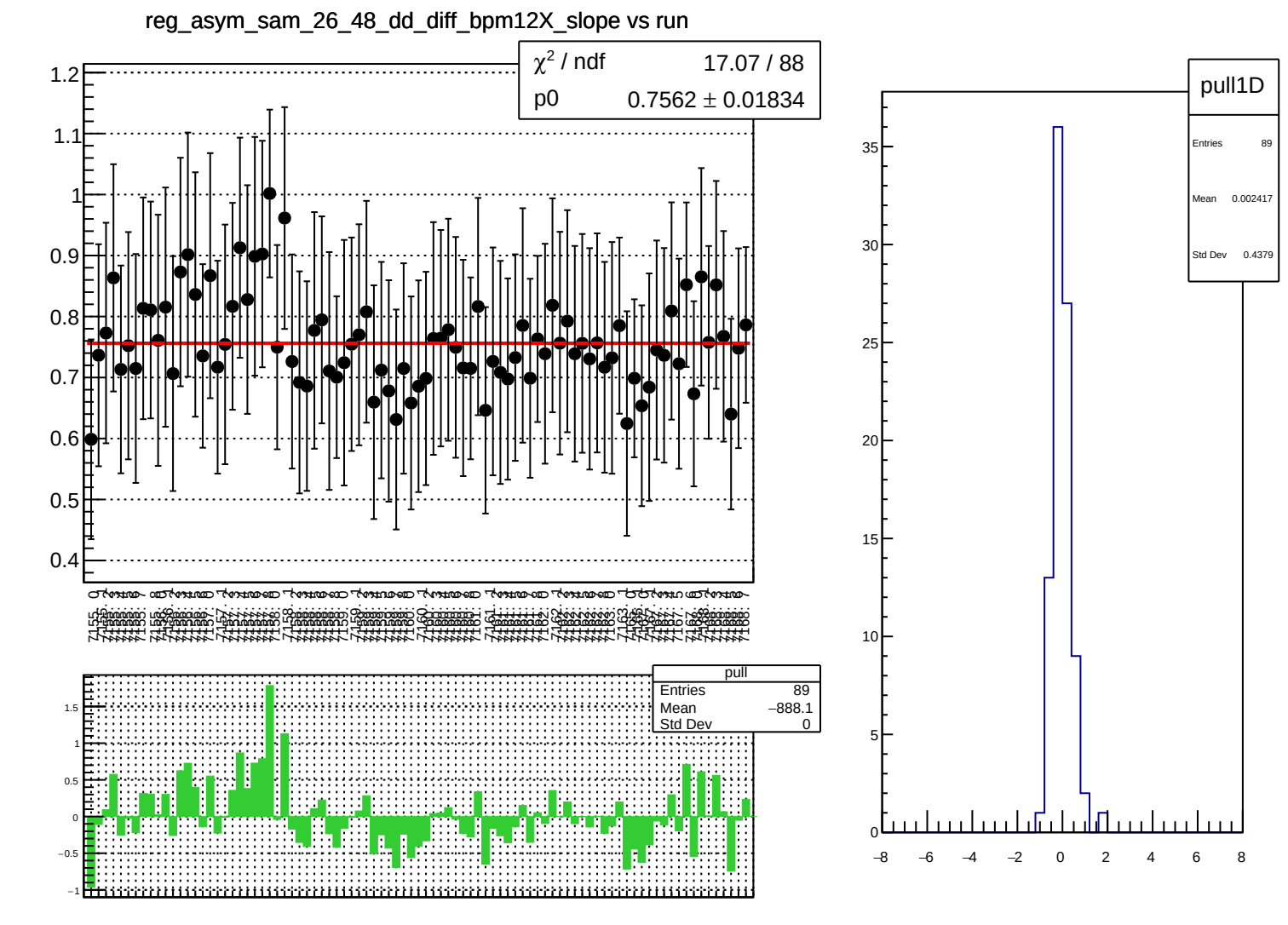

pull1D
Entries 89
Mean 0.006212
Std Dev 0.3206

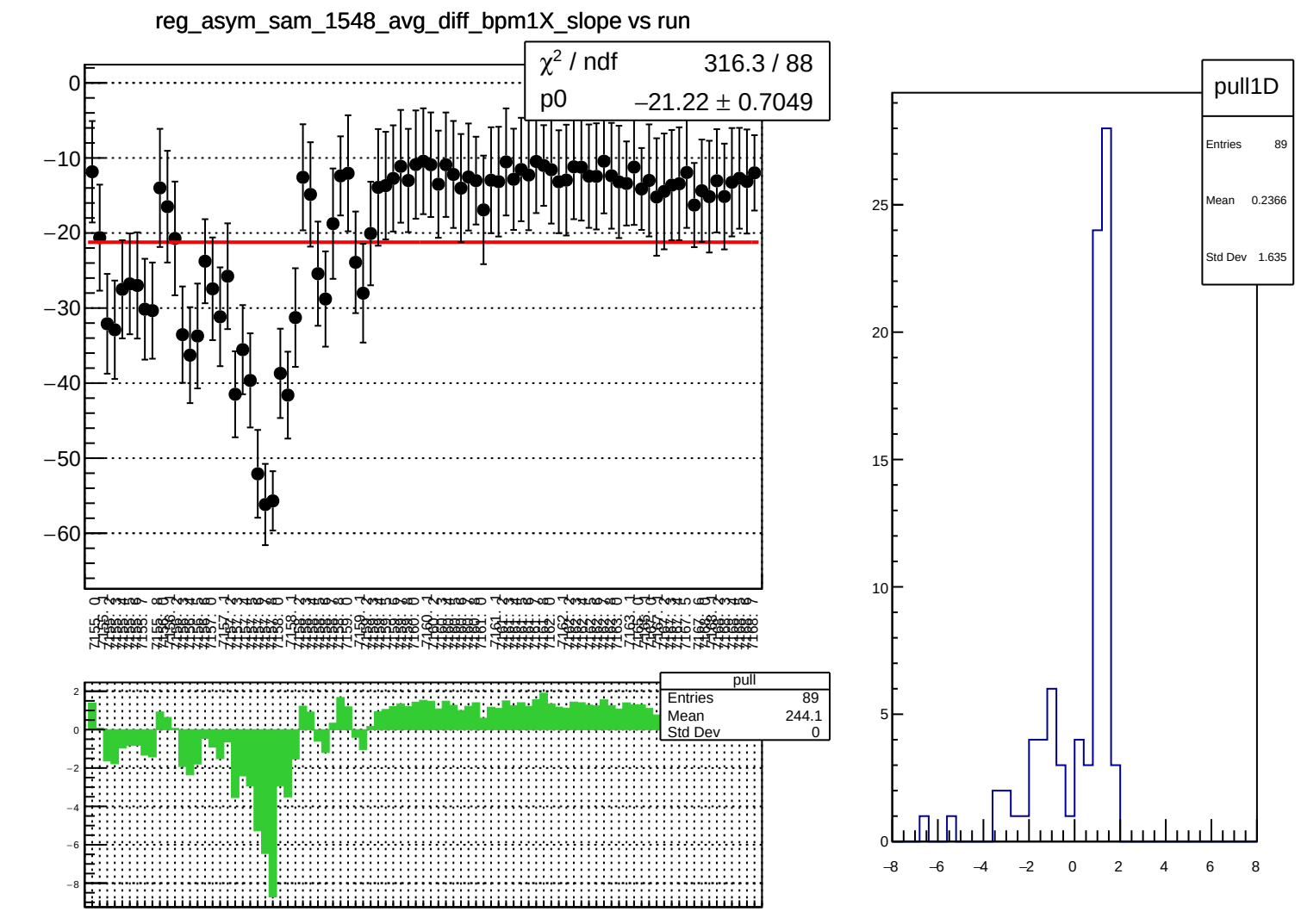

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 277.6 / 88
p0 13.94 ± 0.5313
pull
Entries 89
Mean 242.7
Std Dev 0
pull1D
Entries 89
Mean −0.2223
Std Dev 1.532

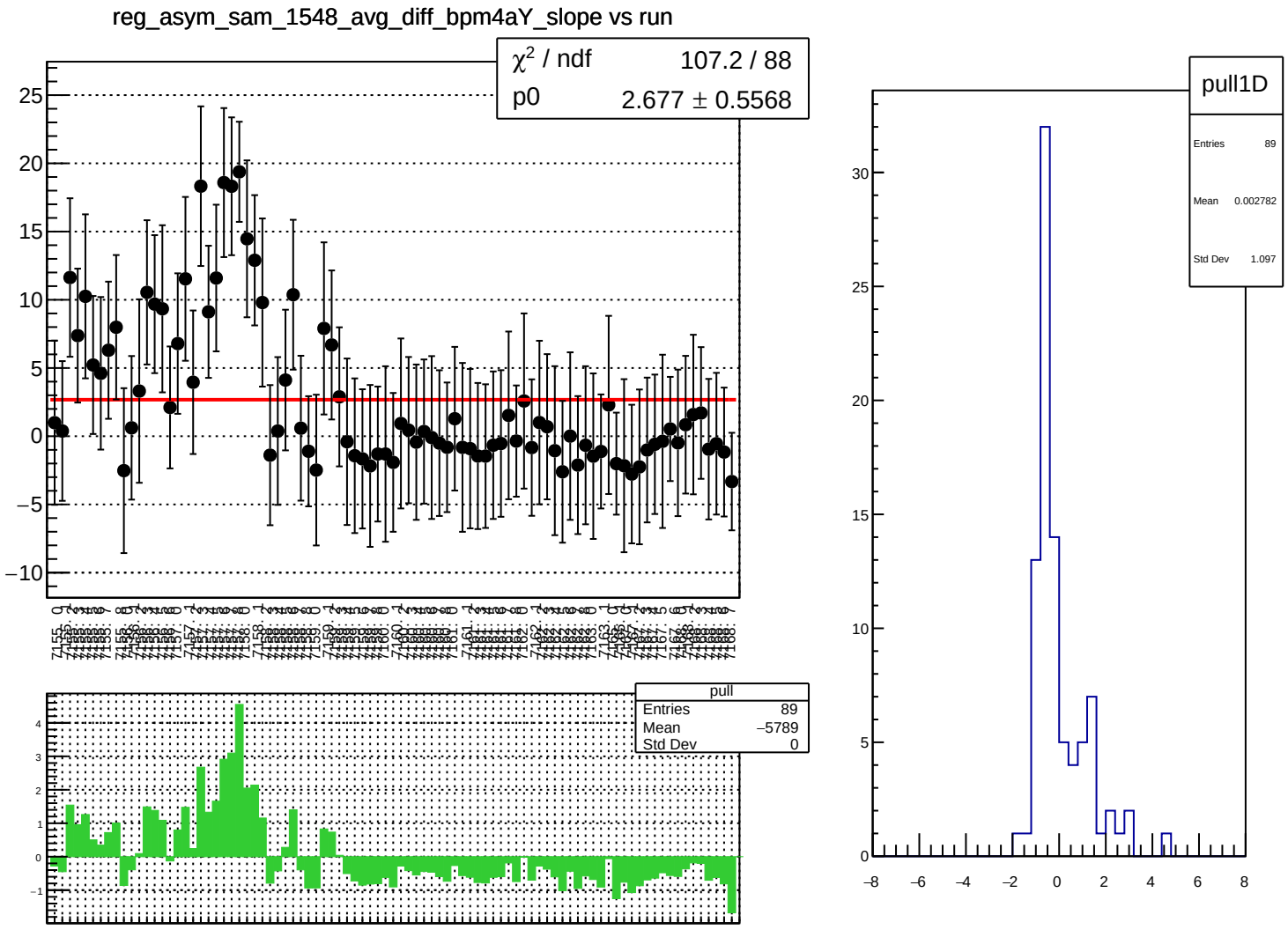

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 95.67 / 88
p0 1.621 ± 0.4195
pull
Entries 89
Mean 4484
Std Dev 0
pull1D
Entries 89
Mean 0.003381
Std Dev 1.037

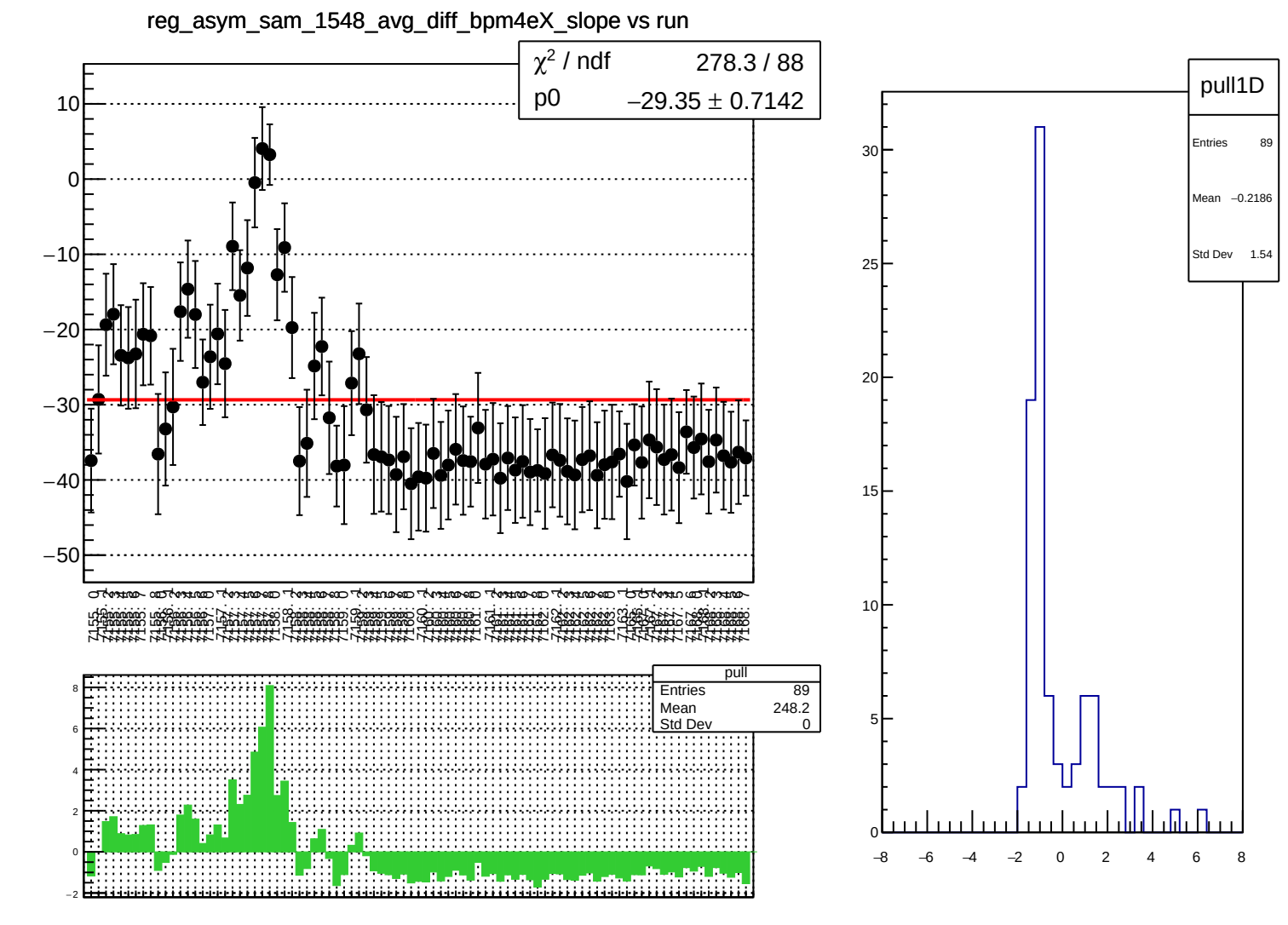

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 245.7 / 88
p0 12.95 ± 0.5382
pull
Entries 89
Mean 244.7
Std Dev 0
pull1D
Entries 89
Mean 0.1163
Std Dev 1.657

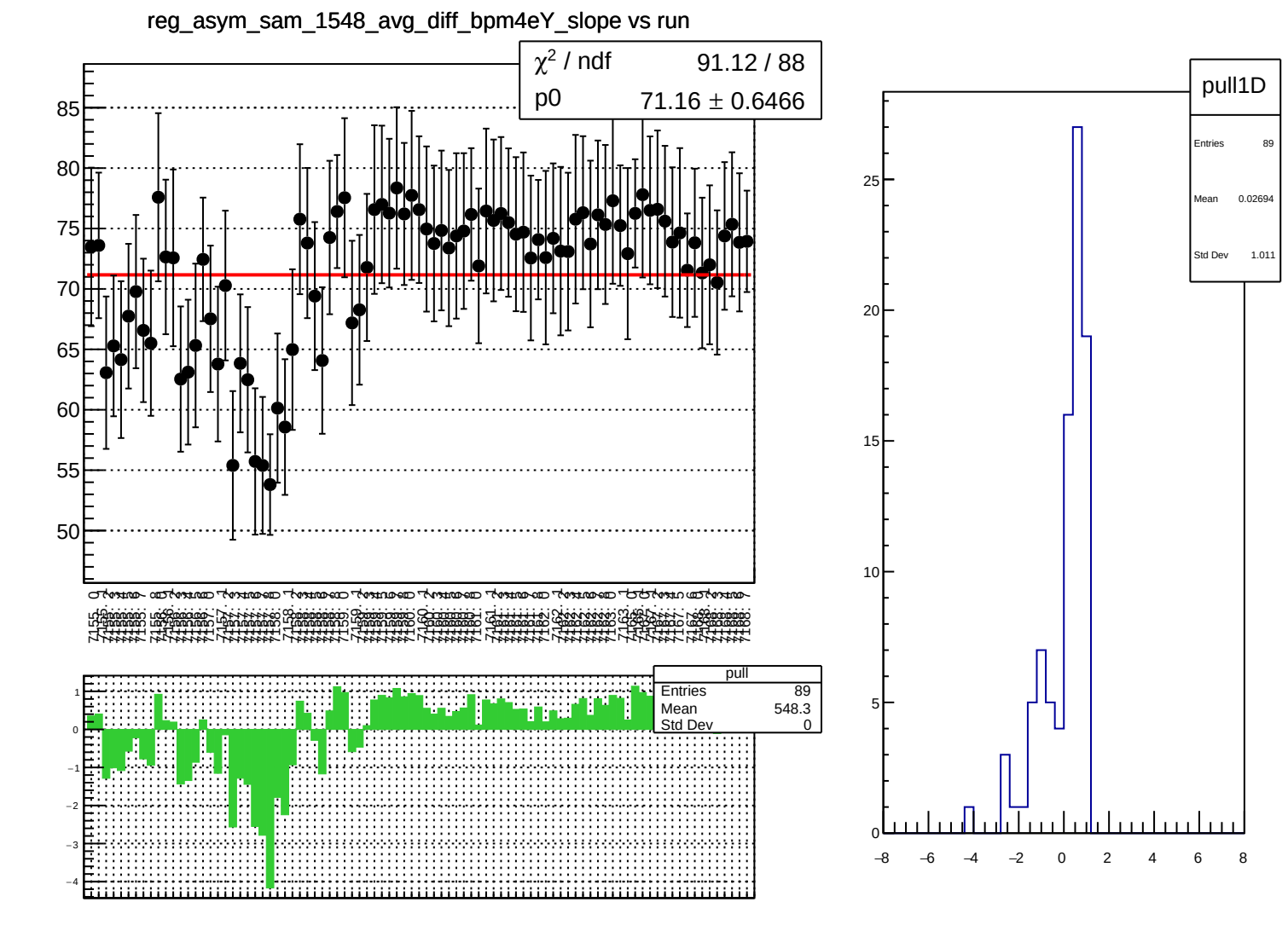

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.6 / 88
p0 −61.14 ± 0.4873
pull
Entries 89
Mean 408.3
Std Dev 0
pull1D
Entries 89
Mean −0.03561
Std Dev 1.003

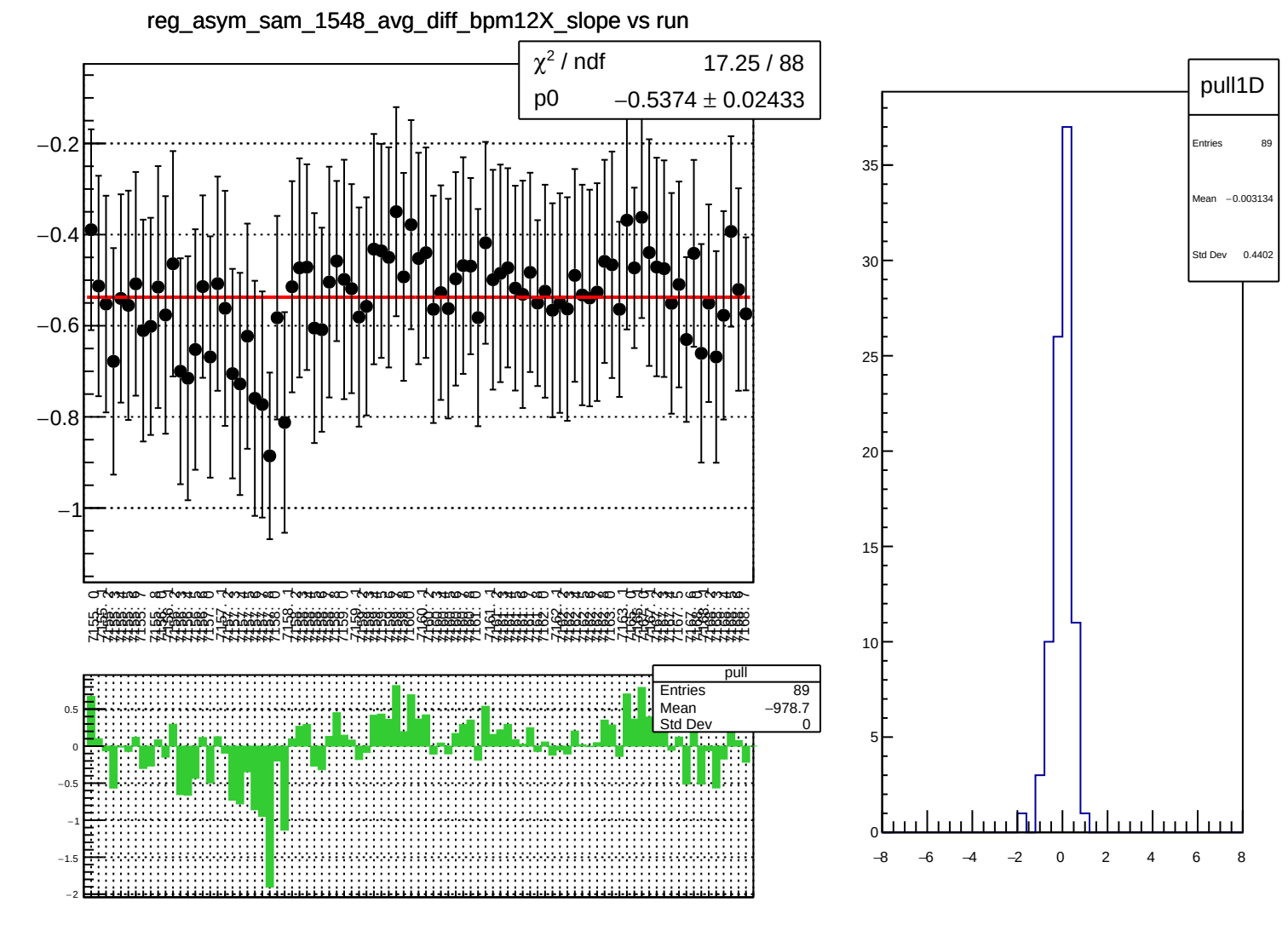

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.07 / 88
p0 0.7562 ± 0.01834
pull
Entries 89
Mean −888.1
Std Dev 0
pull1D
Entries 89
Mean 0.002417
Std Dev 0.4379

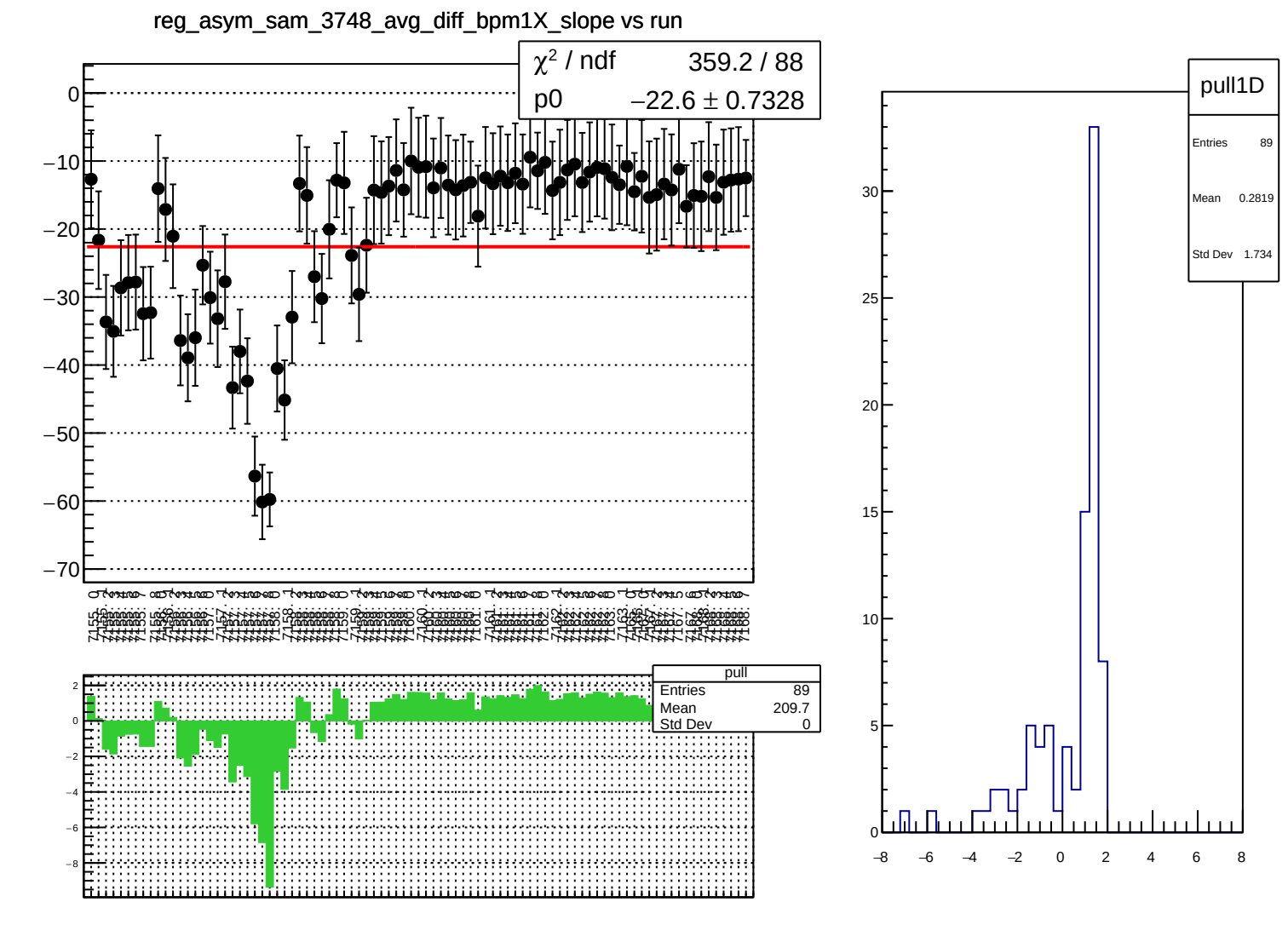

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 316.3 / 88
p0 −21.22 ± 0.7049
pull
Entries 89
Mean 244.1
Std Dev 0
pull1D
Entries 89
Mean 0.2366
Std Dev 1.635

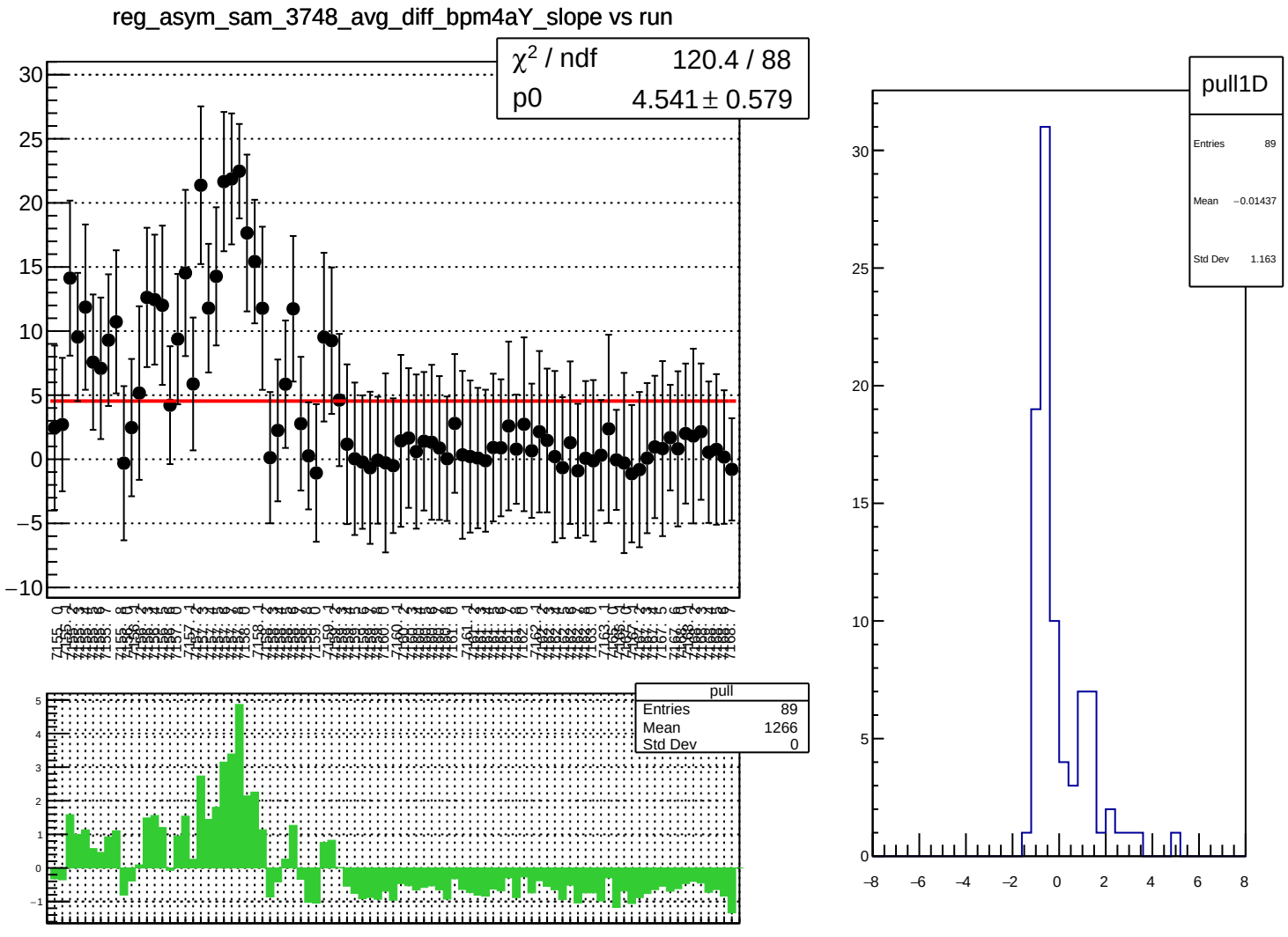

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 107.2 / 88
p0 2.677 ± 0.5568
pull
Entries 89
Mean −5789
Std Dev 0
pull1D
Entries 89
Mean 0.002782
Std Dev 1.097

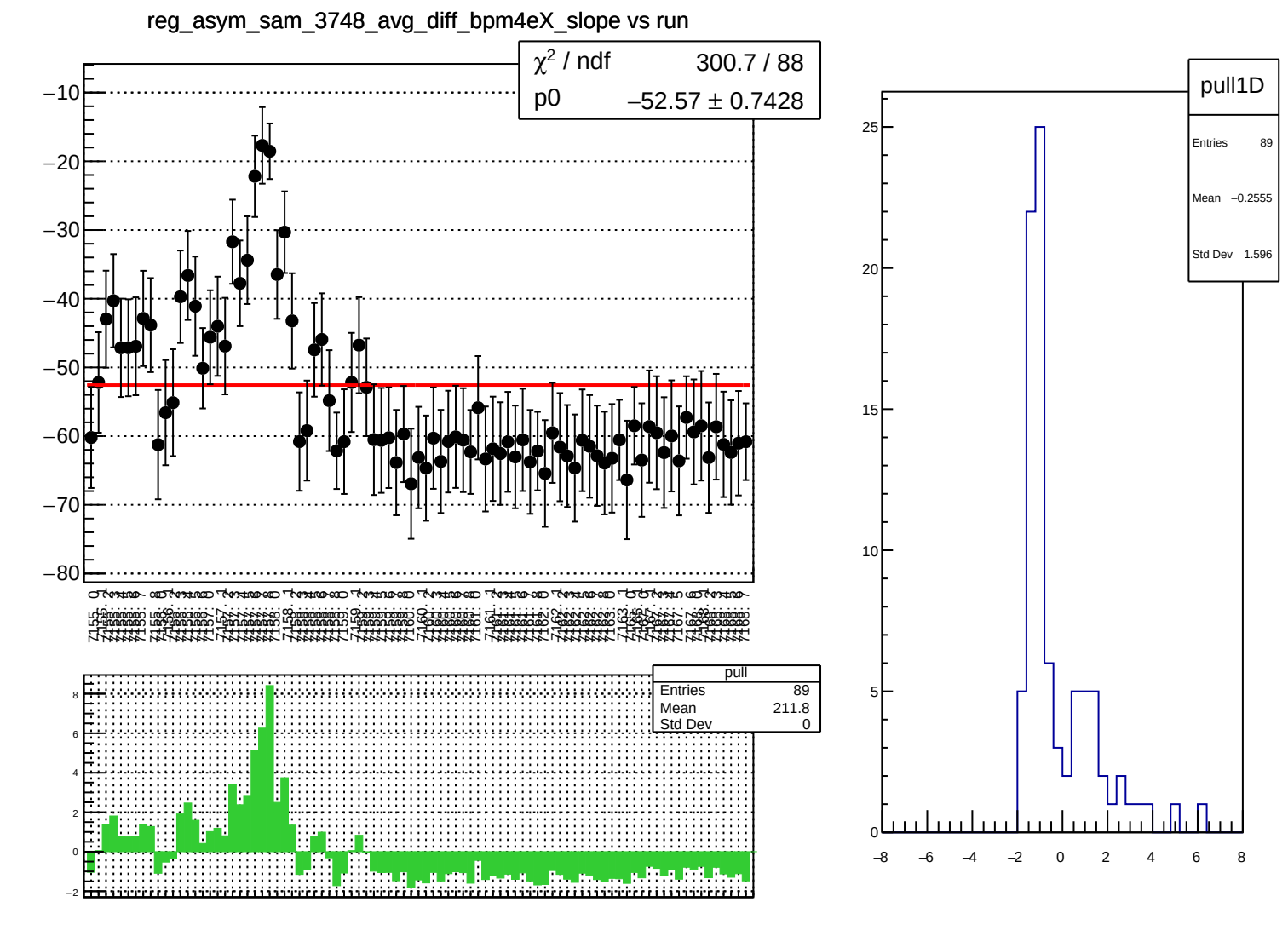

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 278.3 / 88
p0 −29.35 ± 0.7142
pull
Entries 89
Mean 248.2
Std Dev 0
pull1D
Entries 89
Mean −0.2186
Std Dev 1.54

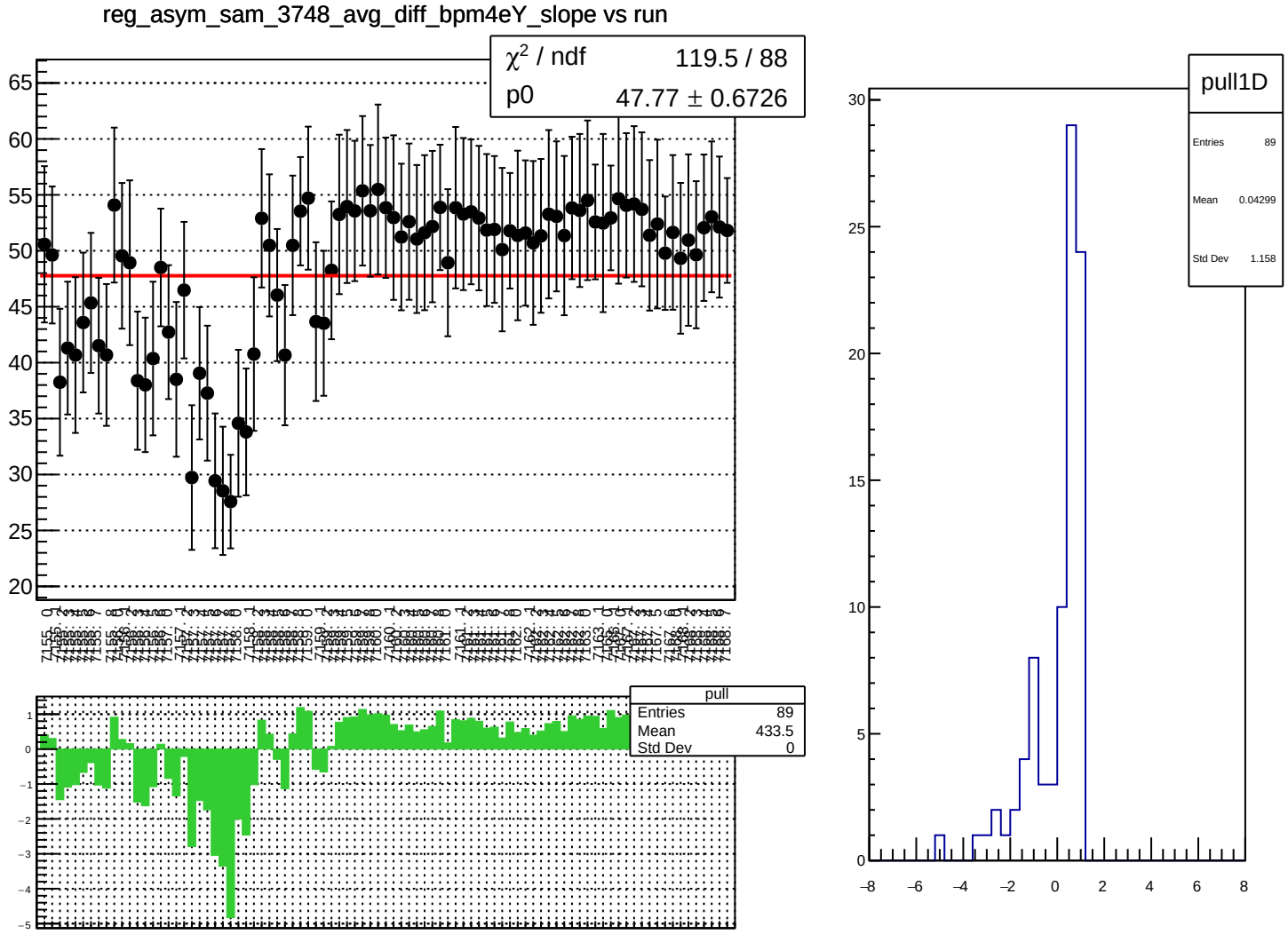

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 91.12 / 88
p0 71.16 ± 0.6466
pull
Entries 89
Mean 548.3
Std Dev 0
pull1D
Entries 89
Mean 0.02694
Std Dev 1.011

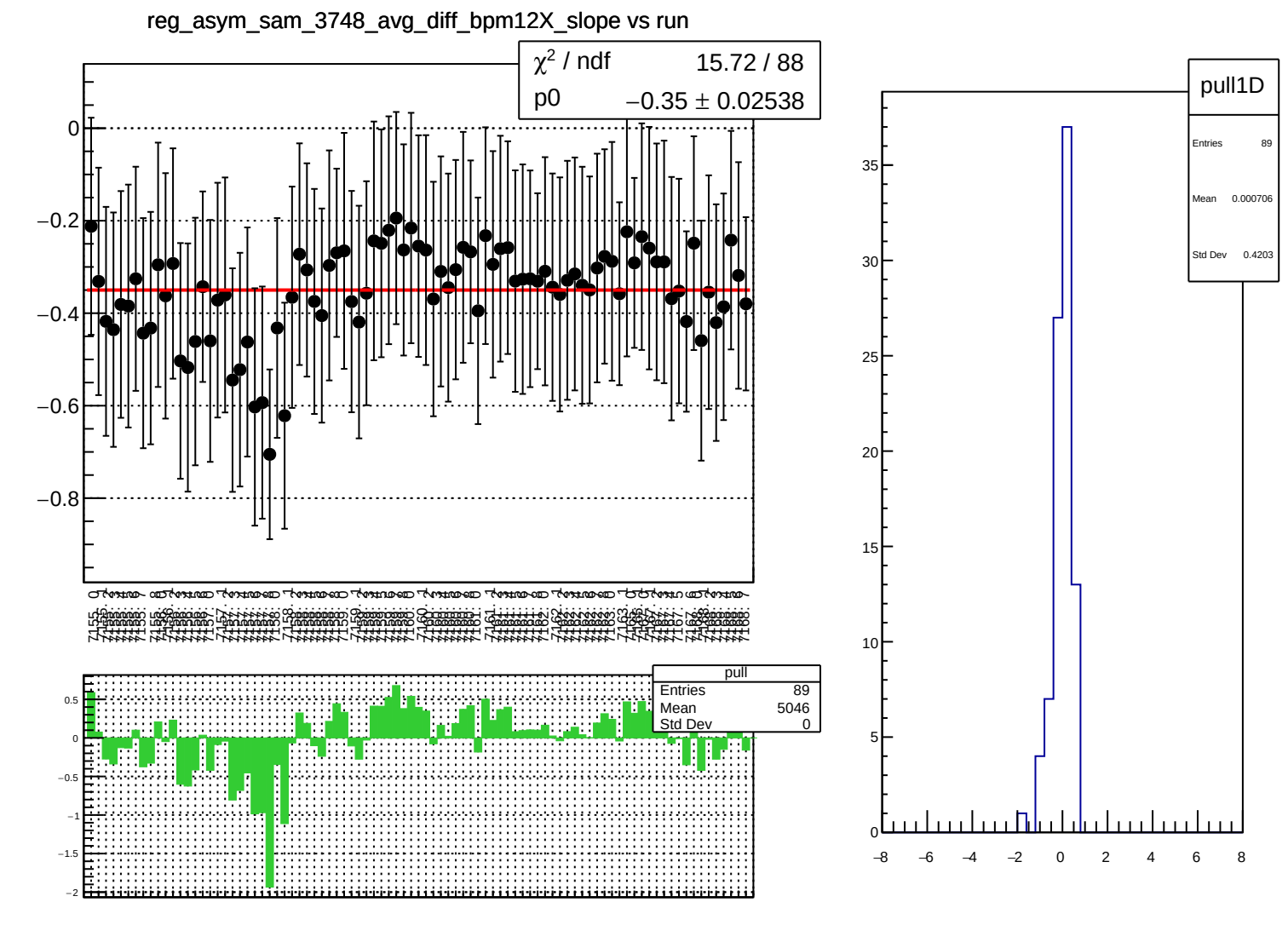

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 17.25 / 88
p0 −0.5374 ± 0.02433
pull
Entries 89
Mean −978.7
Std Dev 0
pull1D
Entries 89
Mean −0.003134
Std Dev 0.4402

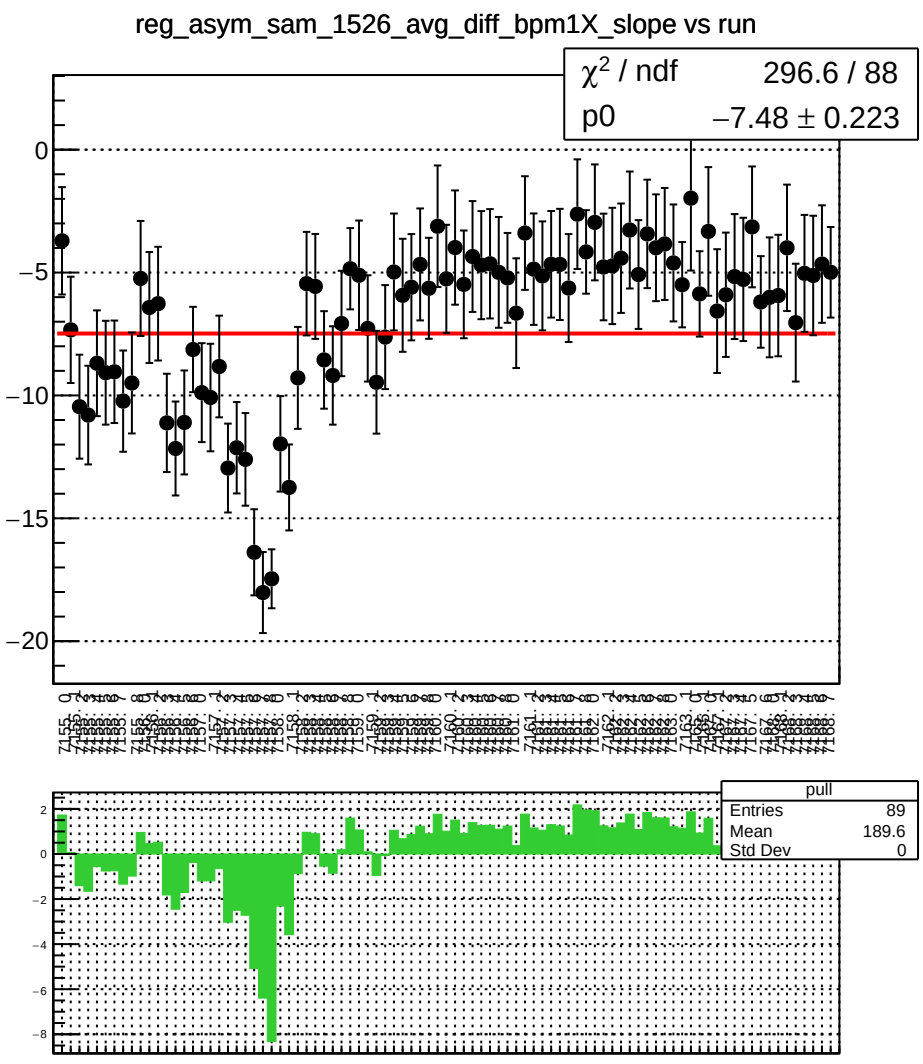

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 359.2 / 88
p0 −22.6 ± 0.7328
pull
Entries 89
Mean 209.7
Std Dev 0
pull1D
Entries 89
Mean 0.2819
Std Dev 1.734

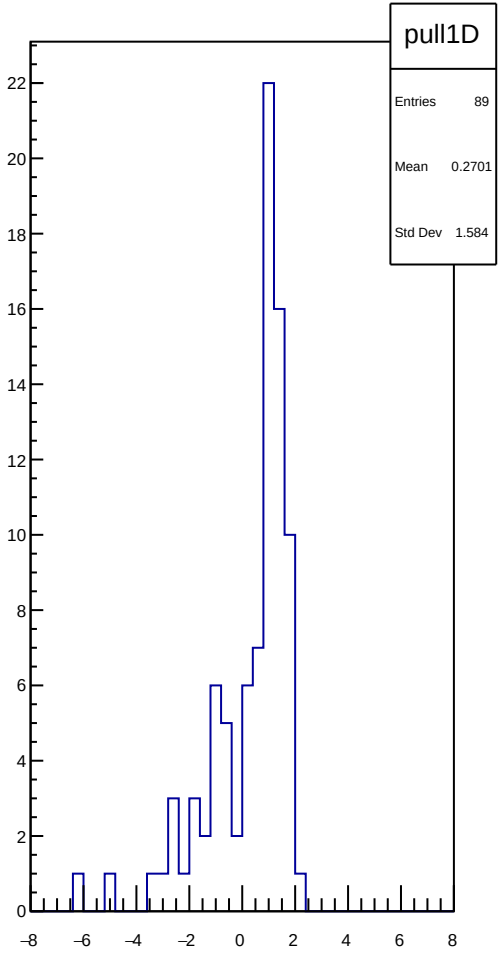

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 120.4 / 88
p0 4.541 ± 0.579
pull
Entries 89
Mean 1266
Std Dev 0
pull1D
Entries 89
Mean −0.01437
Std Dev 1.163

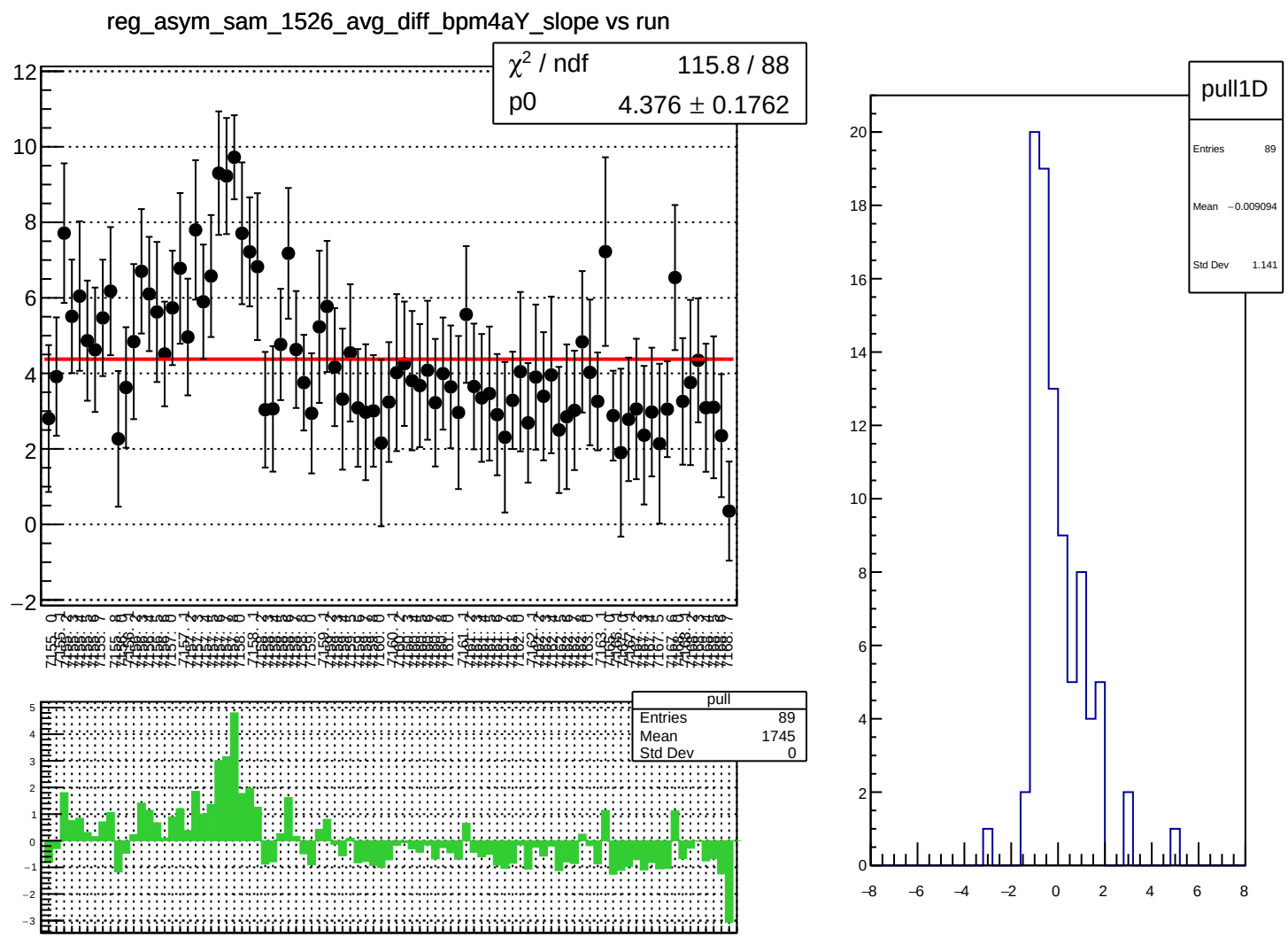

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 300.7 / 88
p0 −52.57 ± 0.7428
pull
Entries 89
Mean 211.8
Std Dev 0
pull1D
Entries 89
Mean −0.2555
Std Dev 1.596

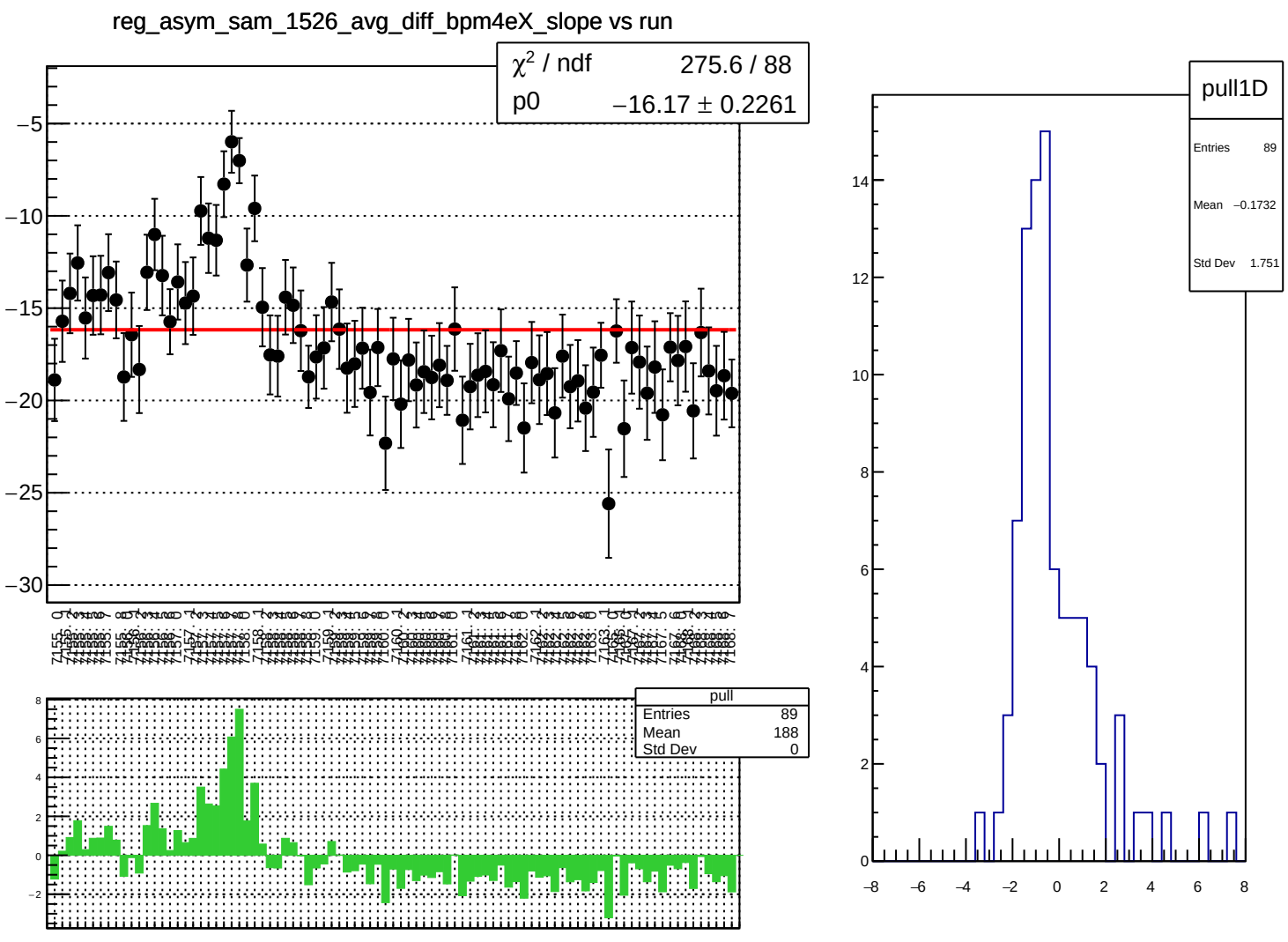

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 119.5 / 88
p0 47.77 ± 0.6726
pull
Entries 89
Mean 433.5
Std Dev 0
pull1D
Entries 89
Mean 0.04299
Std Dev 1.158

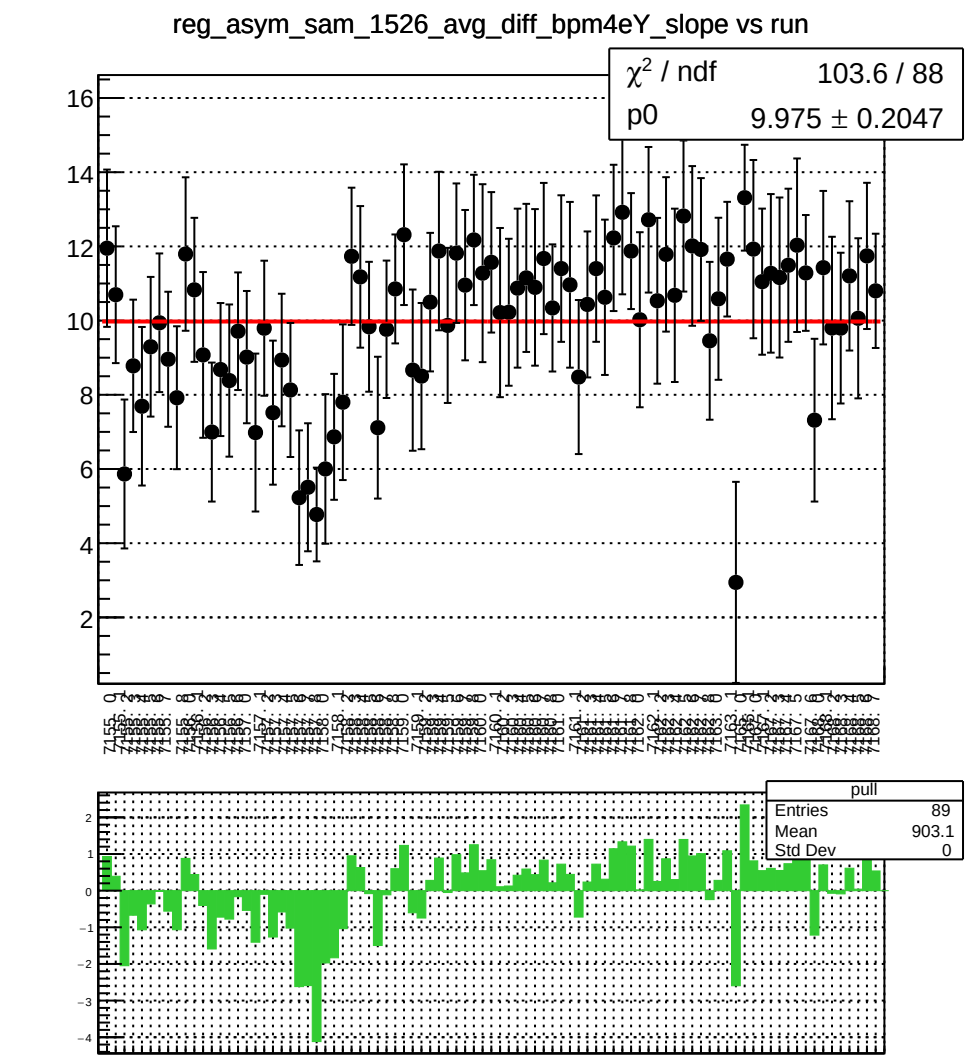

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 15.72 / 88
p0 −0.35 ± 0.02538
pull
Entries 89
Mean 5046
Std Dev 0
pull1D
Entries 89
Mean 0.000706
Std Dev 0.4203

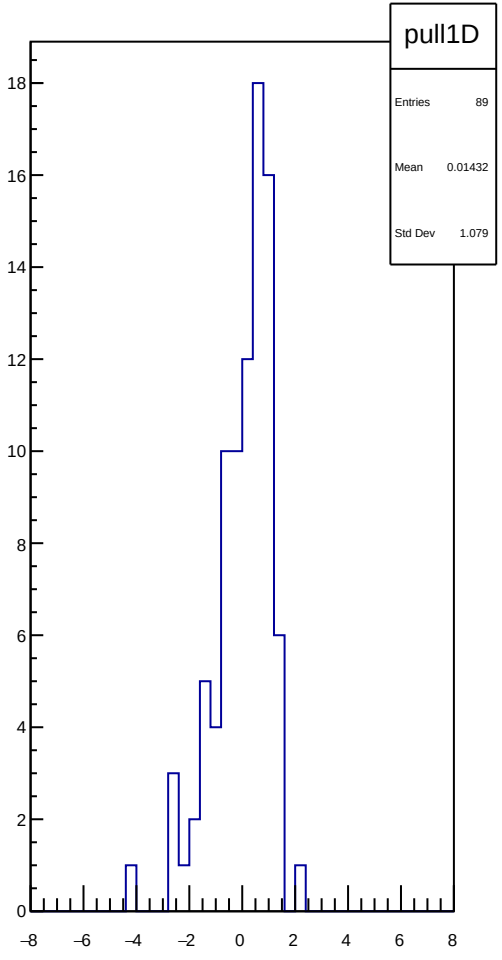

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 296.6 / 88
p0 −7.48 ± 0.223
pull
Entries 89
Mean 189.6
Std Dev 0

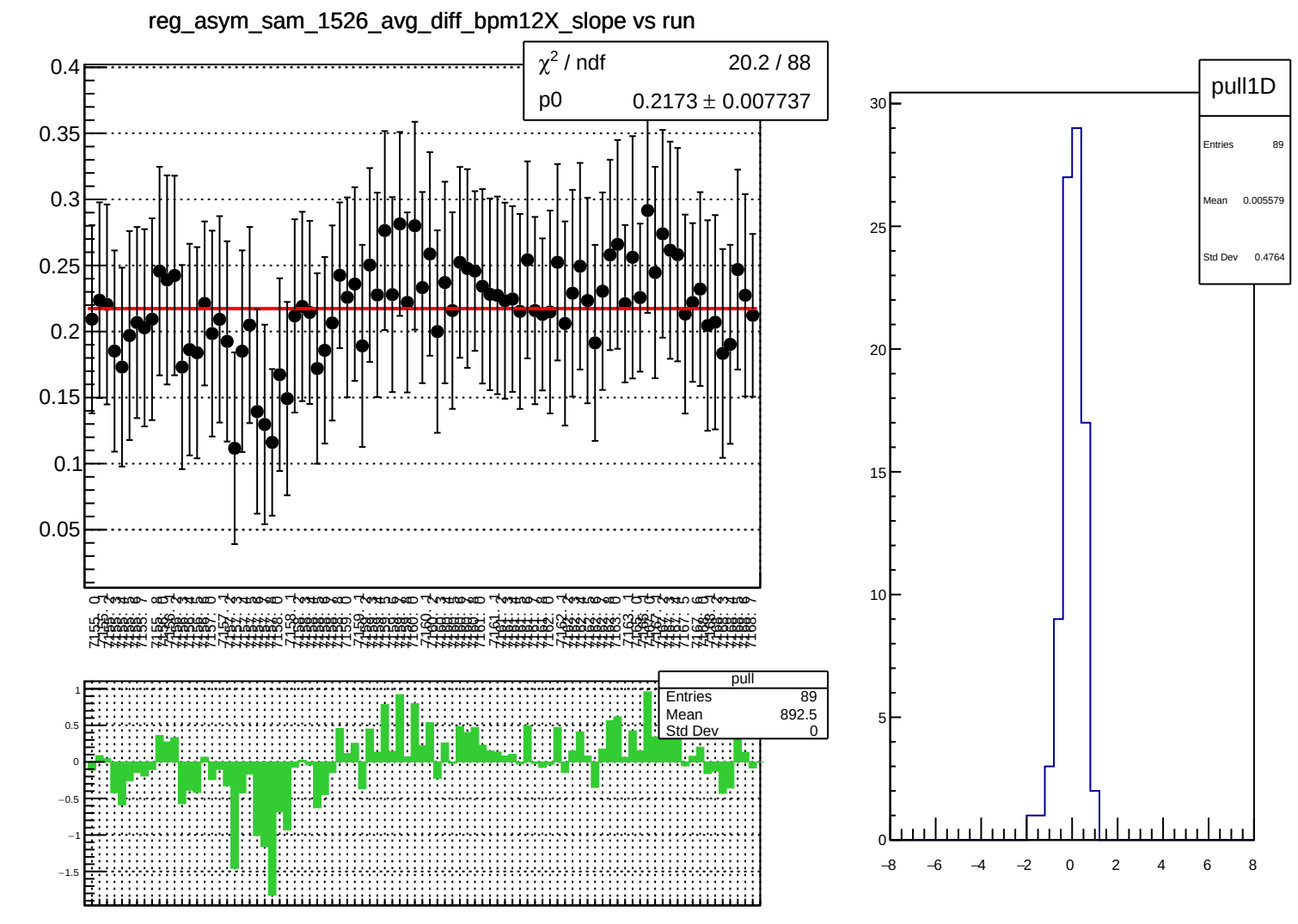

pull1D
Entries 89
Mean 0.2701
Std Dev 1.584

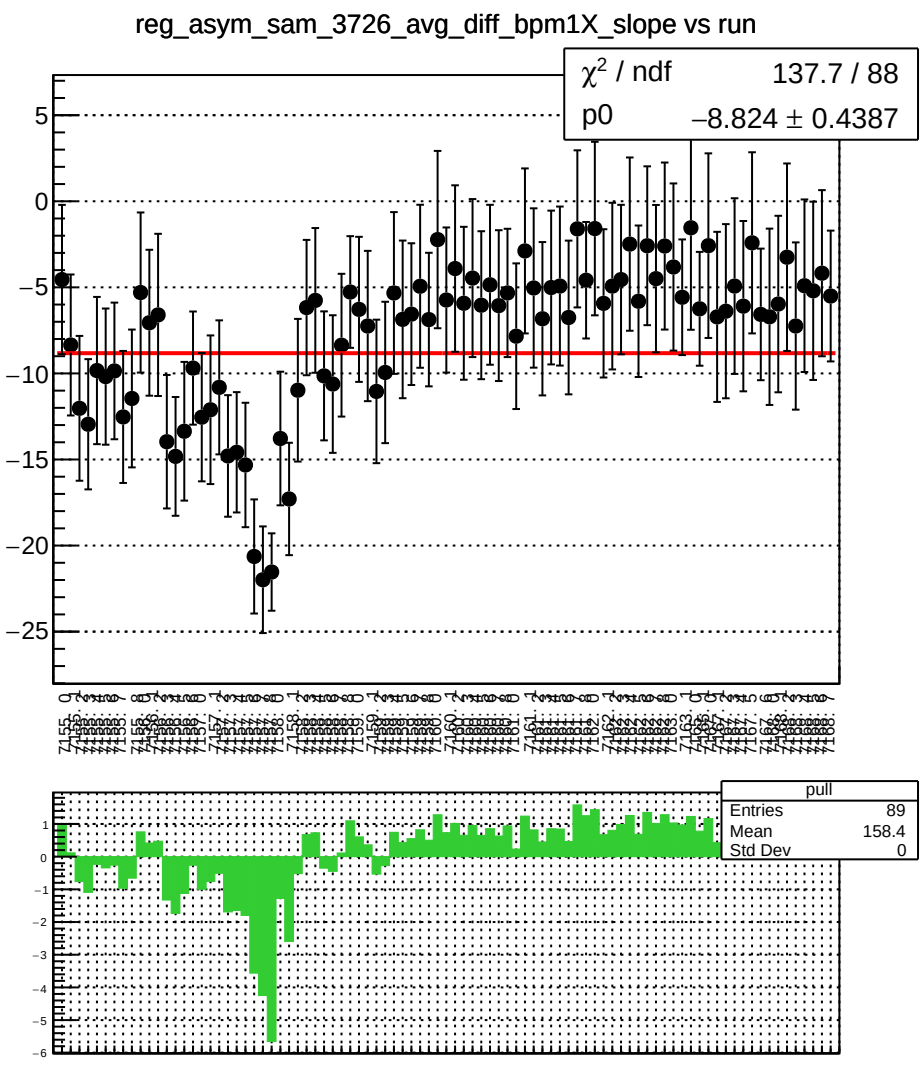

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.8 / 88
p0 4.376 ± 0.1762
pull
Entries 89
Mean 1745
Std Dev 0
pull1D
Entries 89
Mean −0.009094
Std Dev 1.141

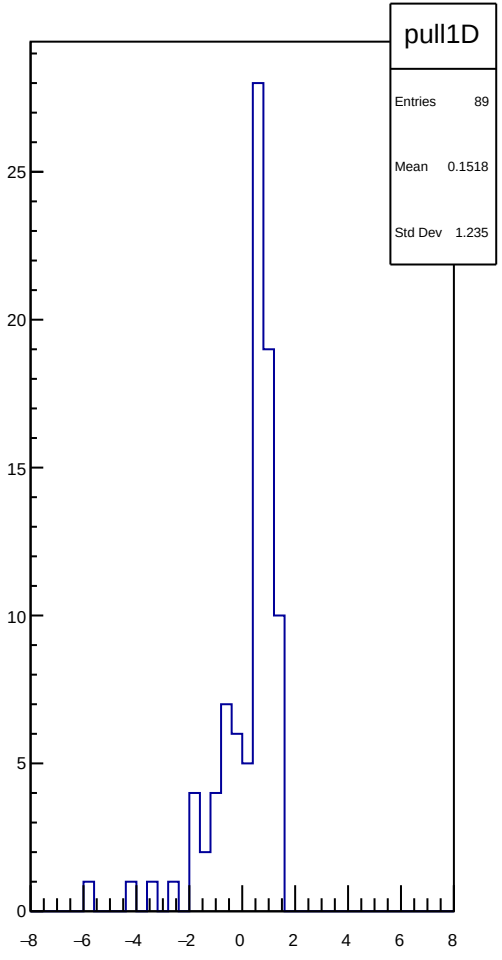

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 275.6 / 88
p0 −16.17 ± 0.2261
pull
Entries 89
Mean 188
Std Dev 0
pull1D
Entries 89
Mean −0.1732
Std Dev 1.751

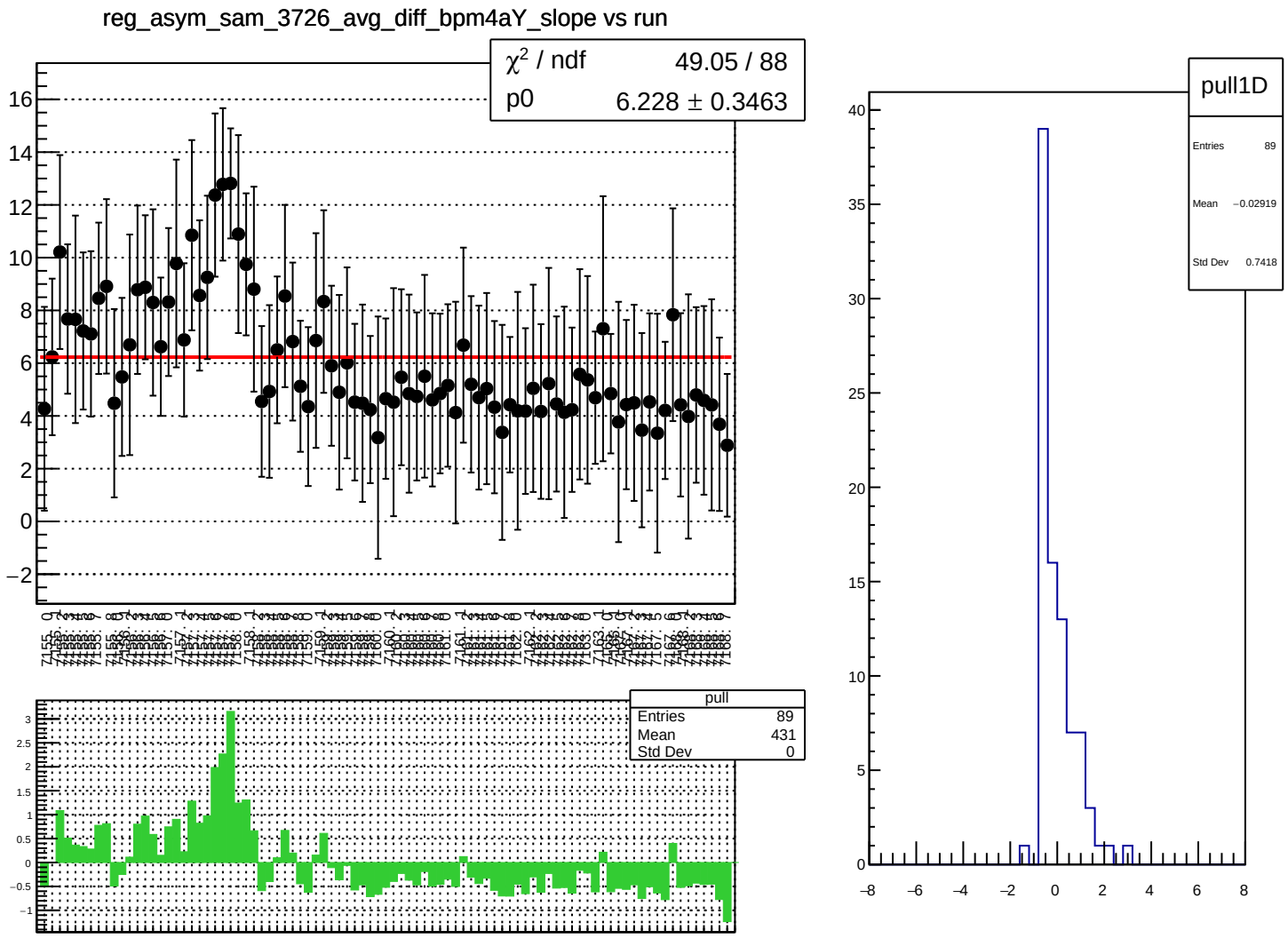

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 103.6 / 88
p0 9.975 ± 0.2047
pull
Entries 89
Mean 903.1
Std Dev 0

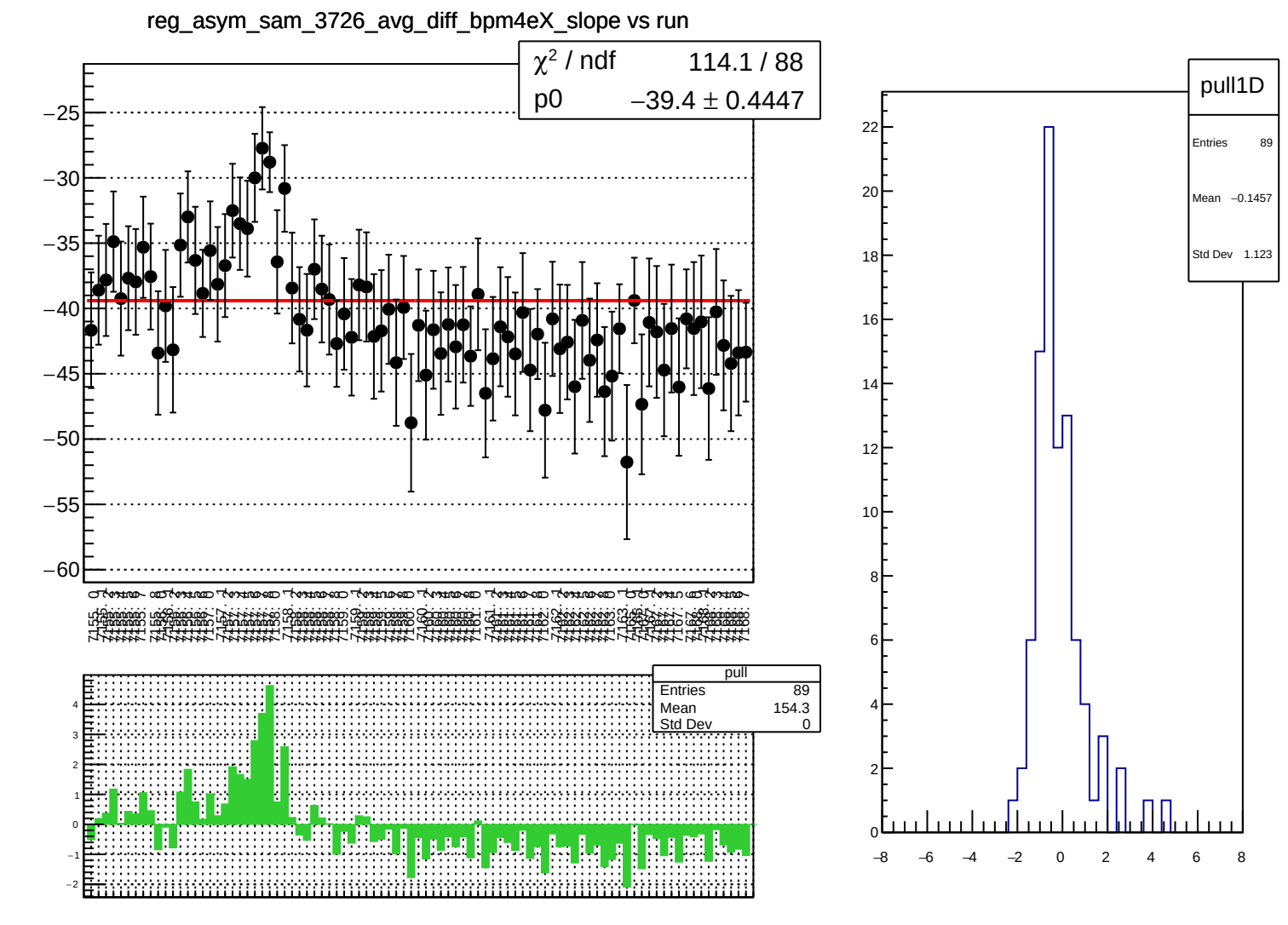

pull1D
Entries 89
Mean 0.01432
Std Dev 1.079

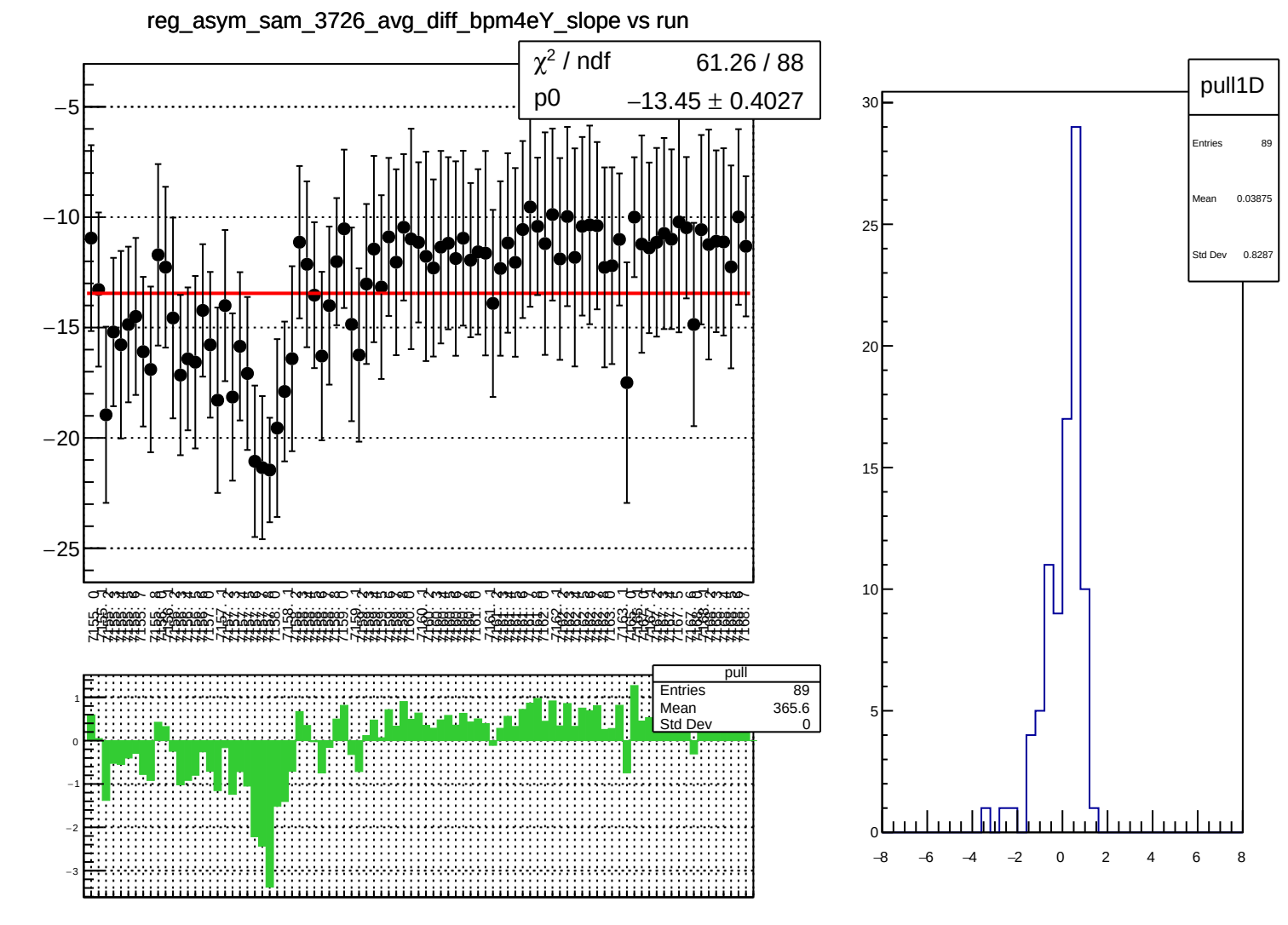

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 20.2 / 88
p0 0.2173 ± 0.007737
pull
Entries 89
Mean 892.5
Std Dev 0
pull1D
Entries 89
Mean 0.005579
Std Dev 0.4764

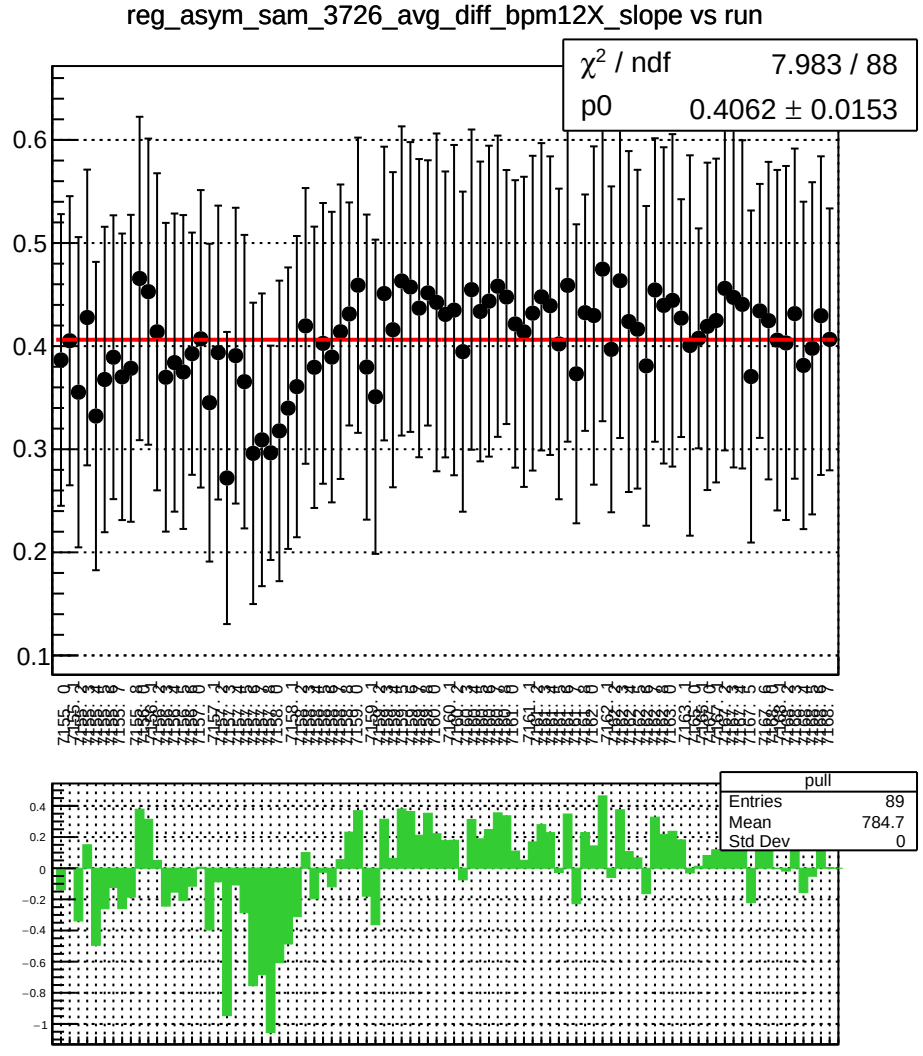

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 137.7 / 88
p0 −8.824 ± 0.4387
pull
Entries 89
Mean 158.4
Std Dev 0

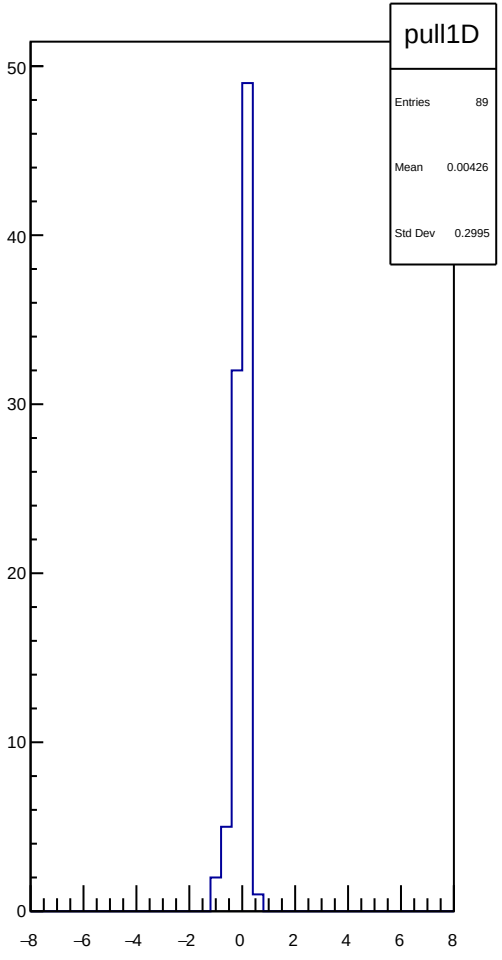

pull1D
Entries 89
Mean 0.1518
Std Dev 1.235

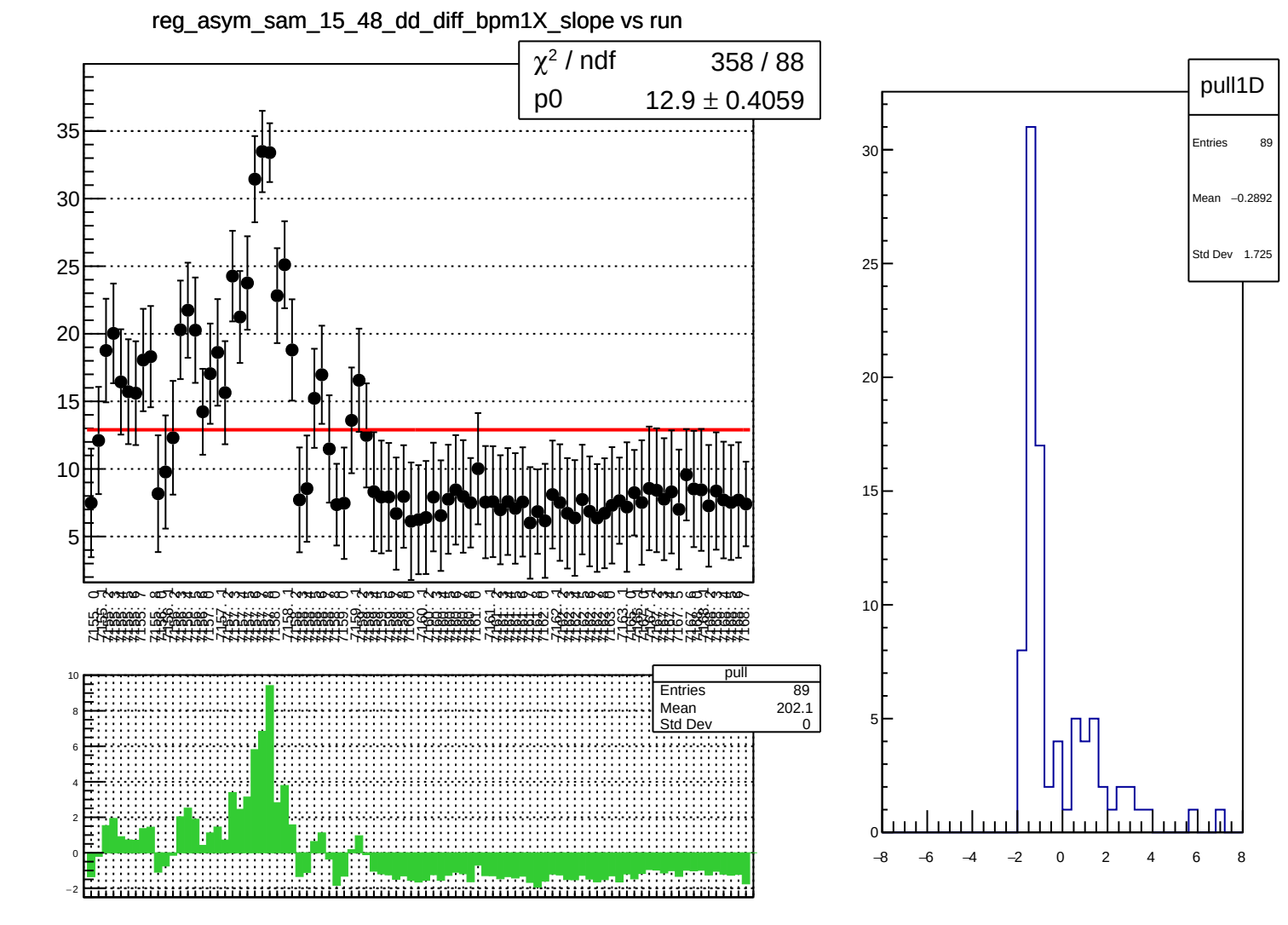

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 49.05 / 88
p0 6.228 ± 0.3463
pull
Entries 89
Mean 431
Std Dev 0
pull1D
Entries 89
Mean −0.02919
Std Dev 0.7418

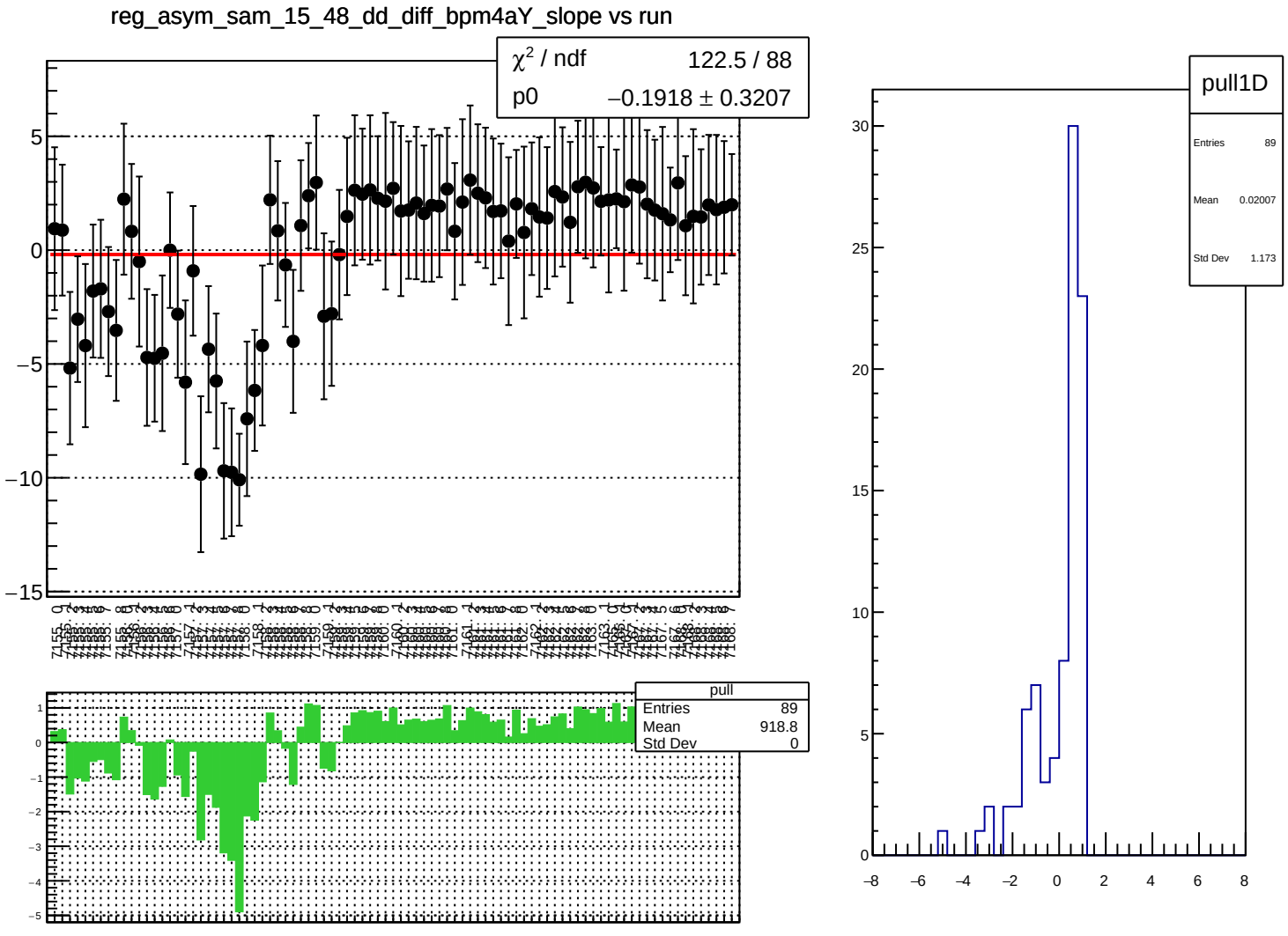

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 114.1 / 88
p0 −39.4 ± 0.4447
pull
Entries 89
Mean 154.3
Std Dev 0
pull1D
Entries 89
Mean −0.1457
Std Dev 1.123

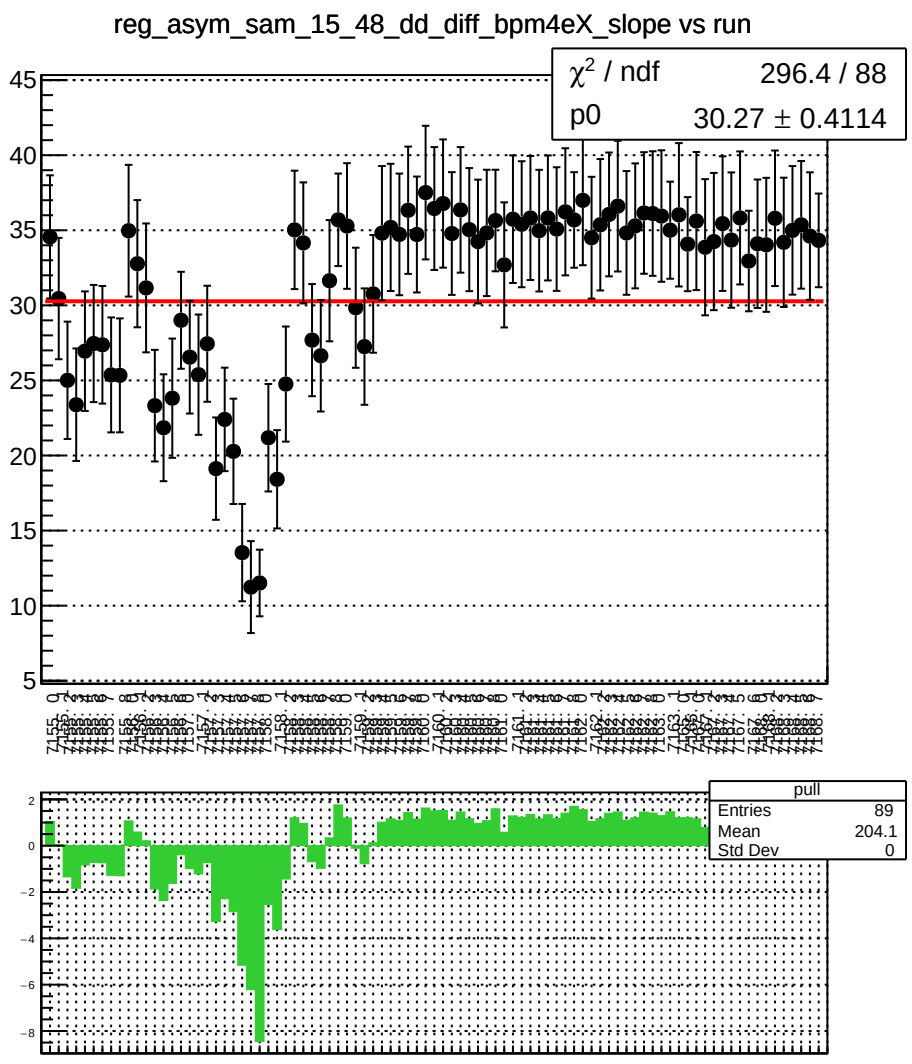

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 61.26 / 88
p0 −13.45 ± 0.4027
pull
Entries 89
Mean 365.6
Std Dev 0
pull1D
Entries 89
Mean 0.03875
Std Dev 0.8287

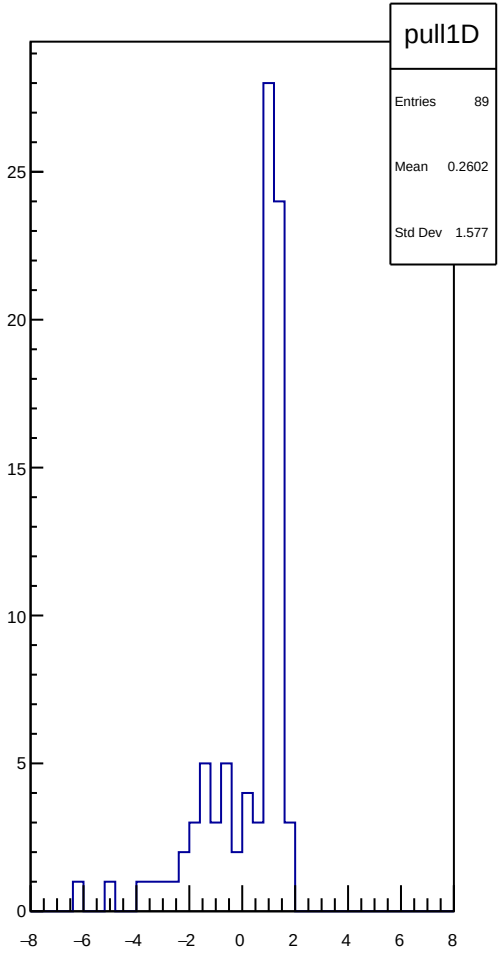

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 7.983 / 88
p0 0.4062 ± 0.0153
pull
Entries 89
Mean 784.7
Std Dev 0

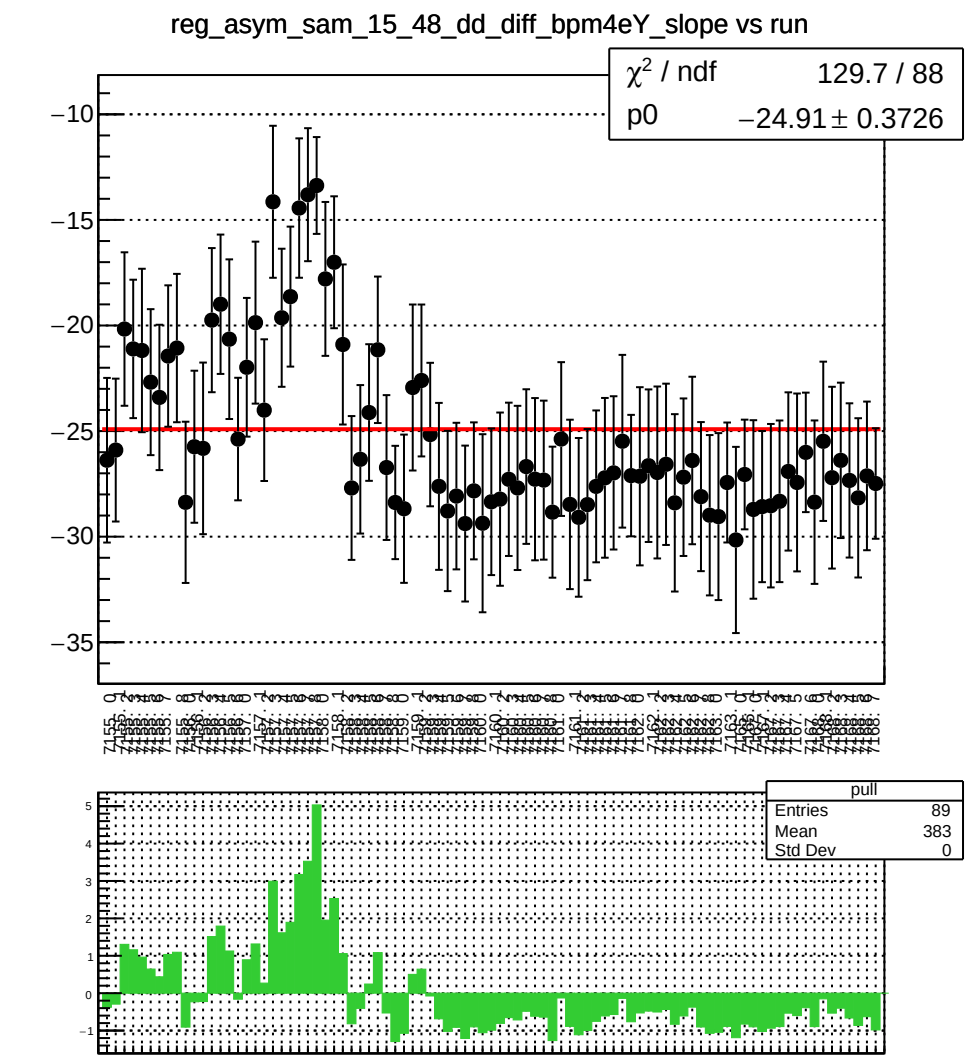

pull1D
Entries 89
Mean 0.00426
Std Dev 0.2995

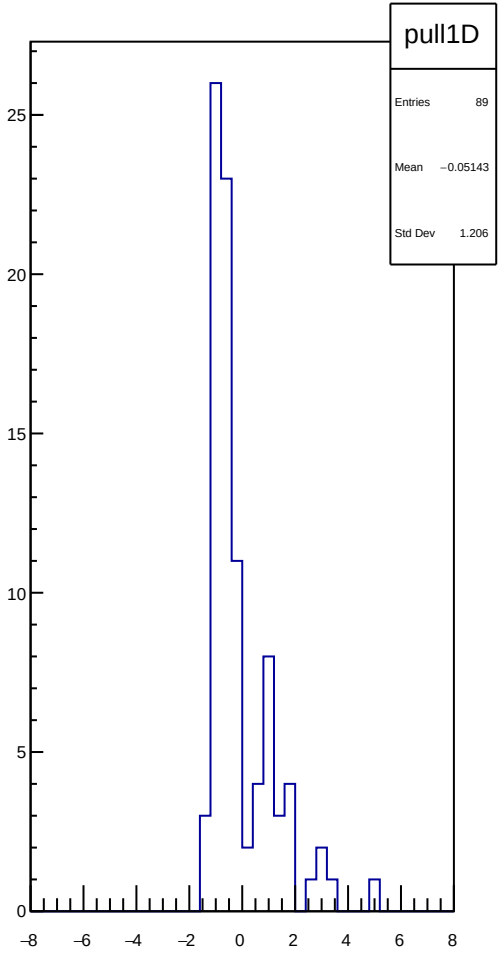

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 358 / 88
p0 12.9 ± 0.4059
pull
Entries 89
Mean 202.1
Std Dev 0
pull1D
Entries 89
Mean −0.2892
Std Dev 1.725

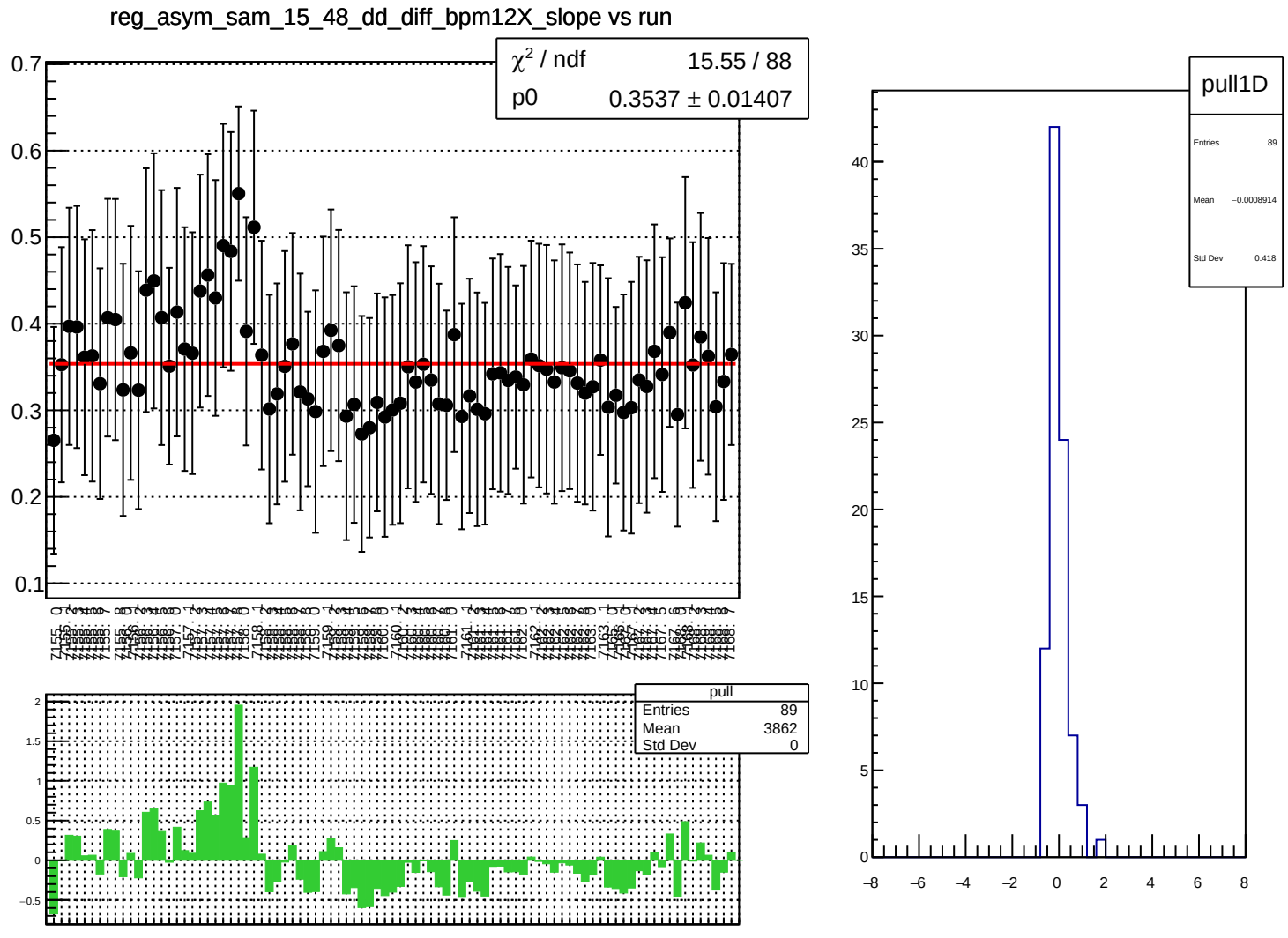

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 122.5 / 88
p0 −0.1918 ± 0.3207
pull
Entries 89
Mean 918.8
Std Dev 0
pull1D
Entries 89
Mean 0.02007
Std Dev 1.173

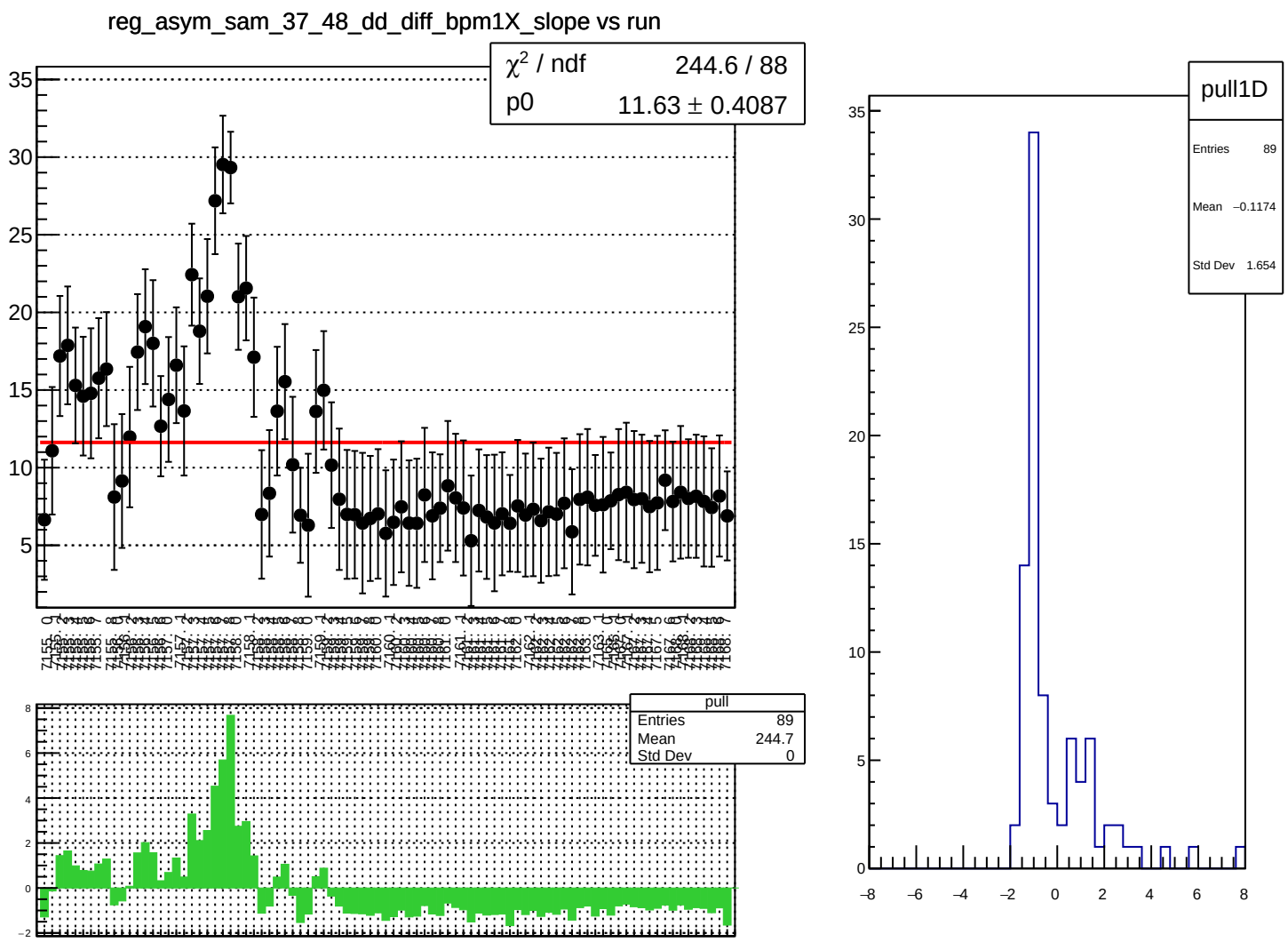

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 296.4 / 88
p0 30.27 ± 0.4114
pull
Entries 89
Mean 204.1
Std Dev 0

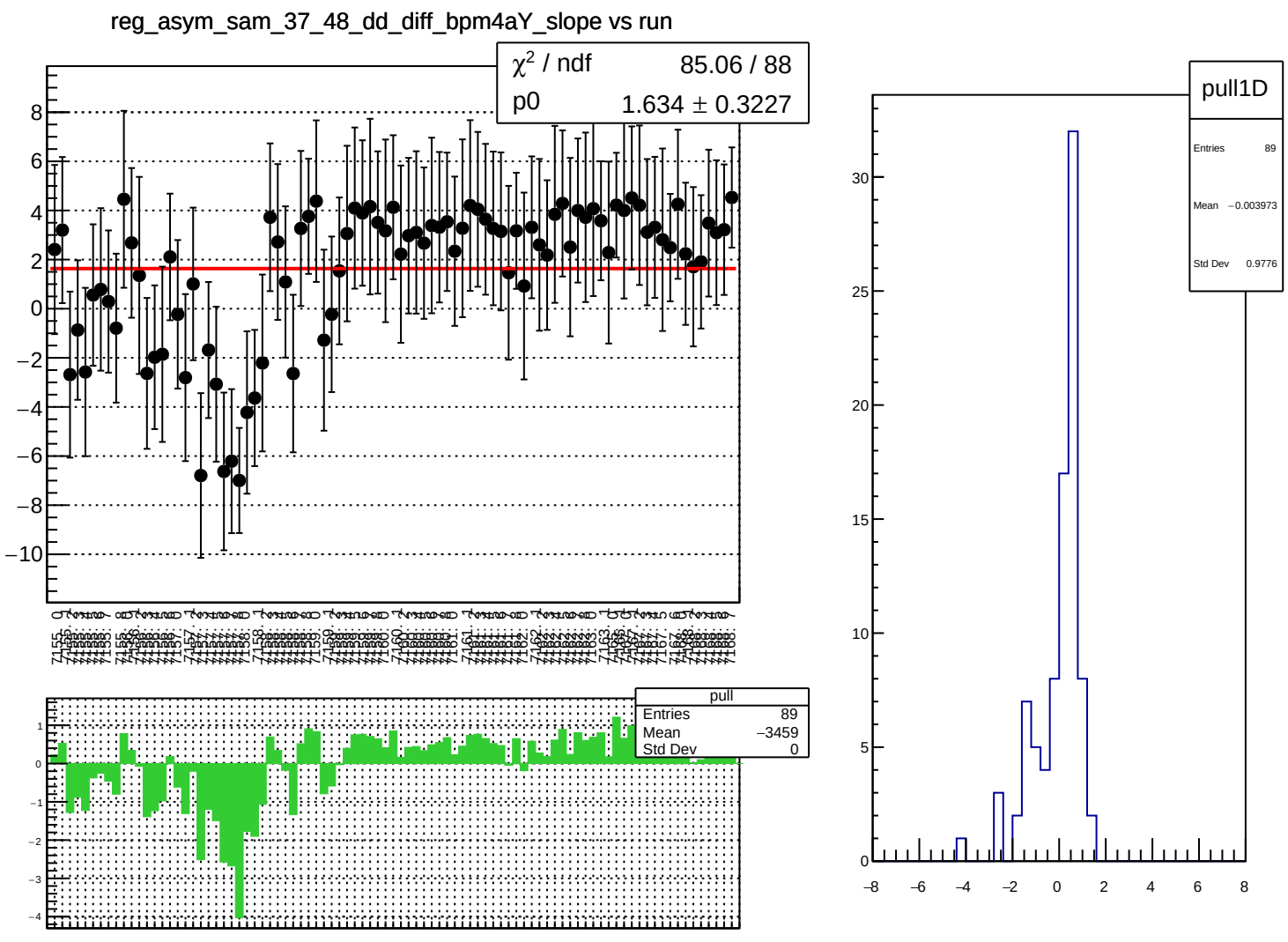

pull1D
Entries 89
Mean 0.2602
Std Dev 1.577

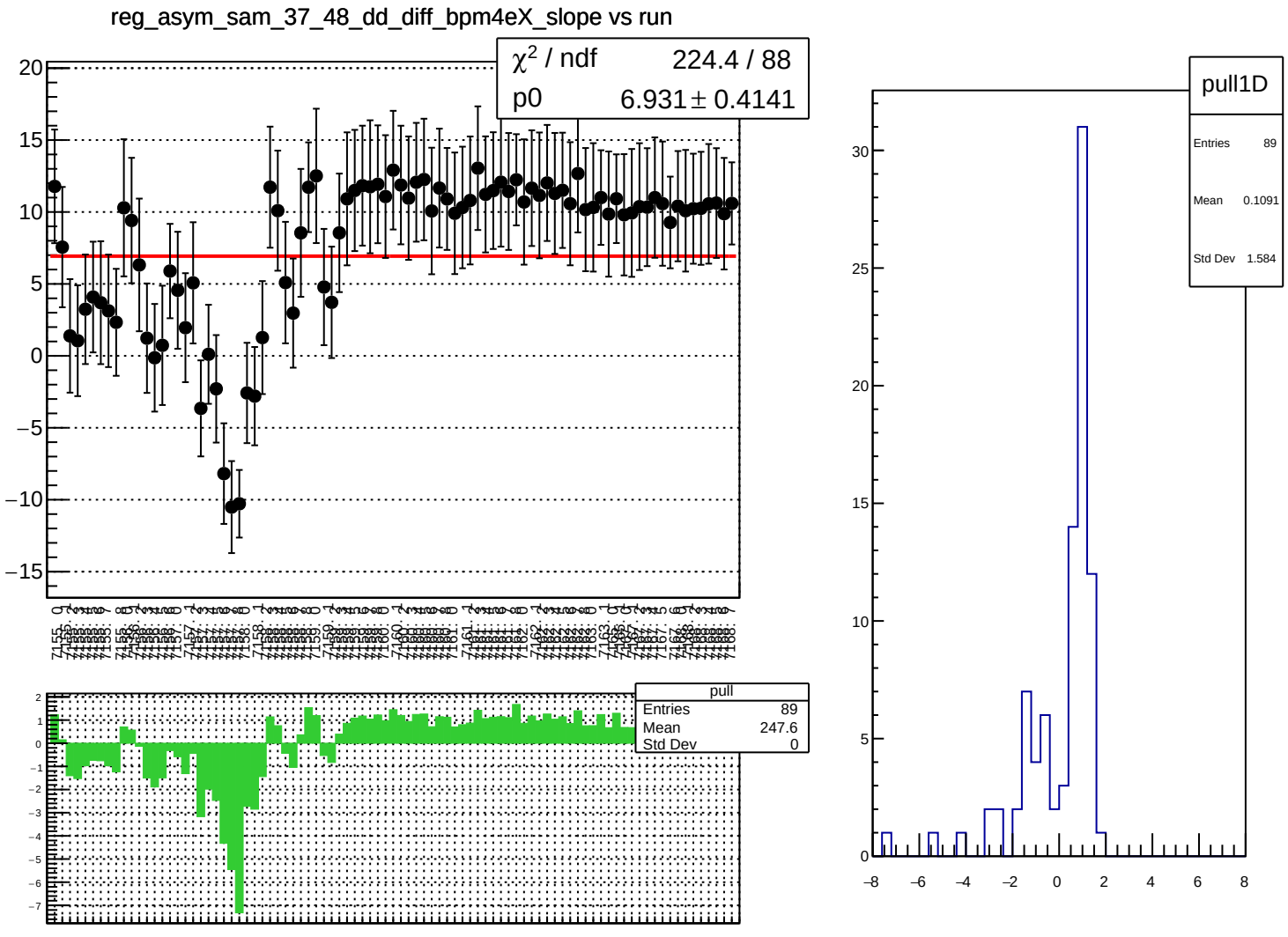

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 129.7 / 88
p0 −24.91 ± 0.3726
pull
Entries 89
Mean 383
Std Dev 0

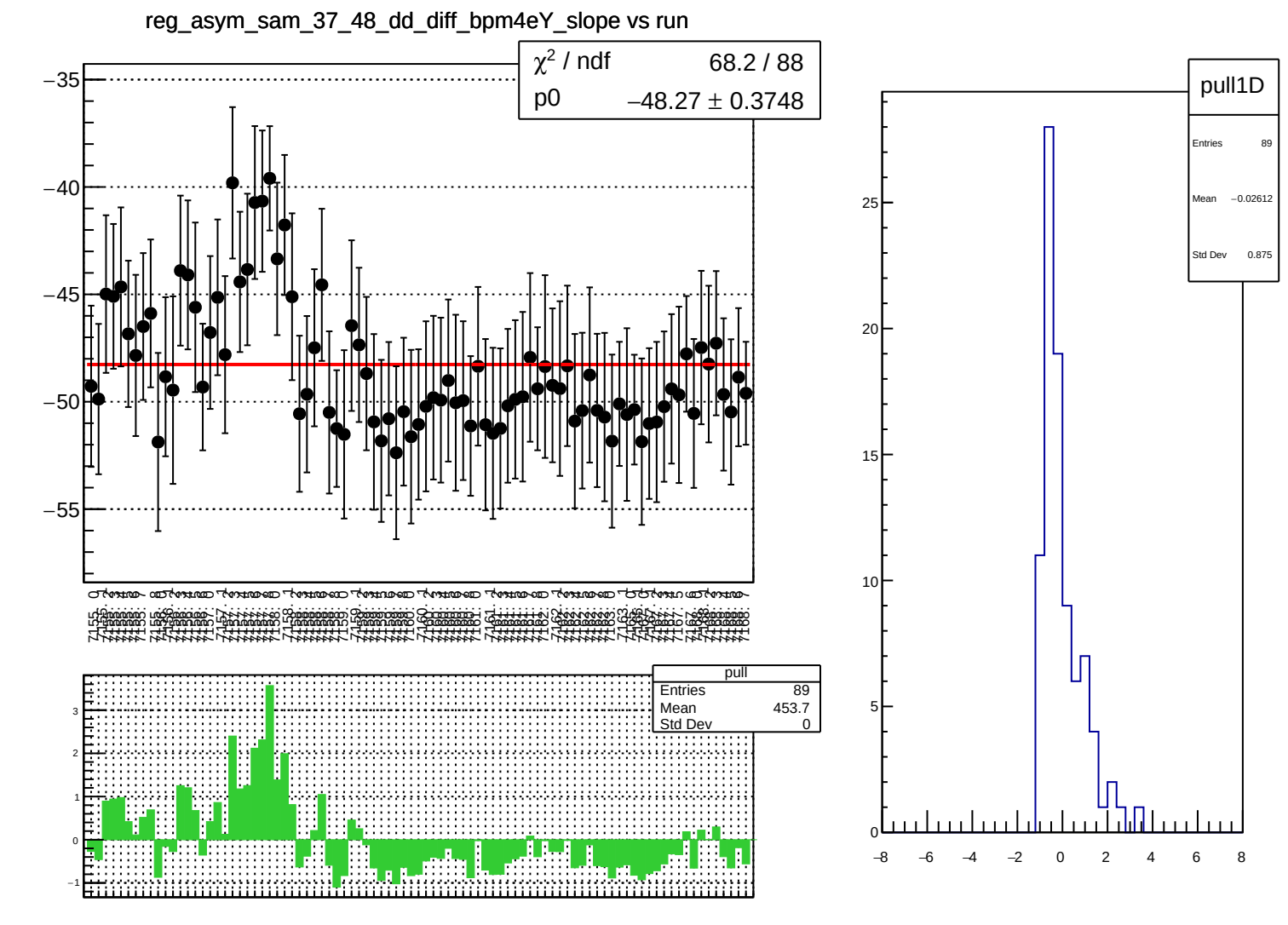

pull1D
Entries 89
Mean −0.05143
Std Dev 1.206

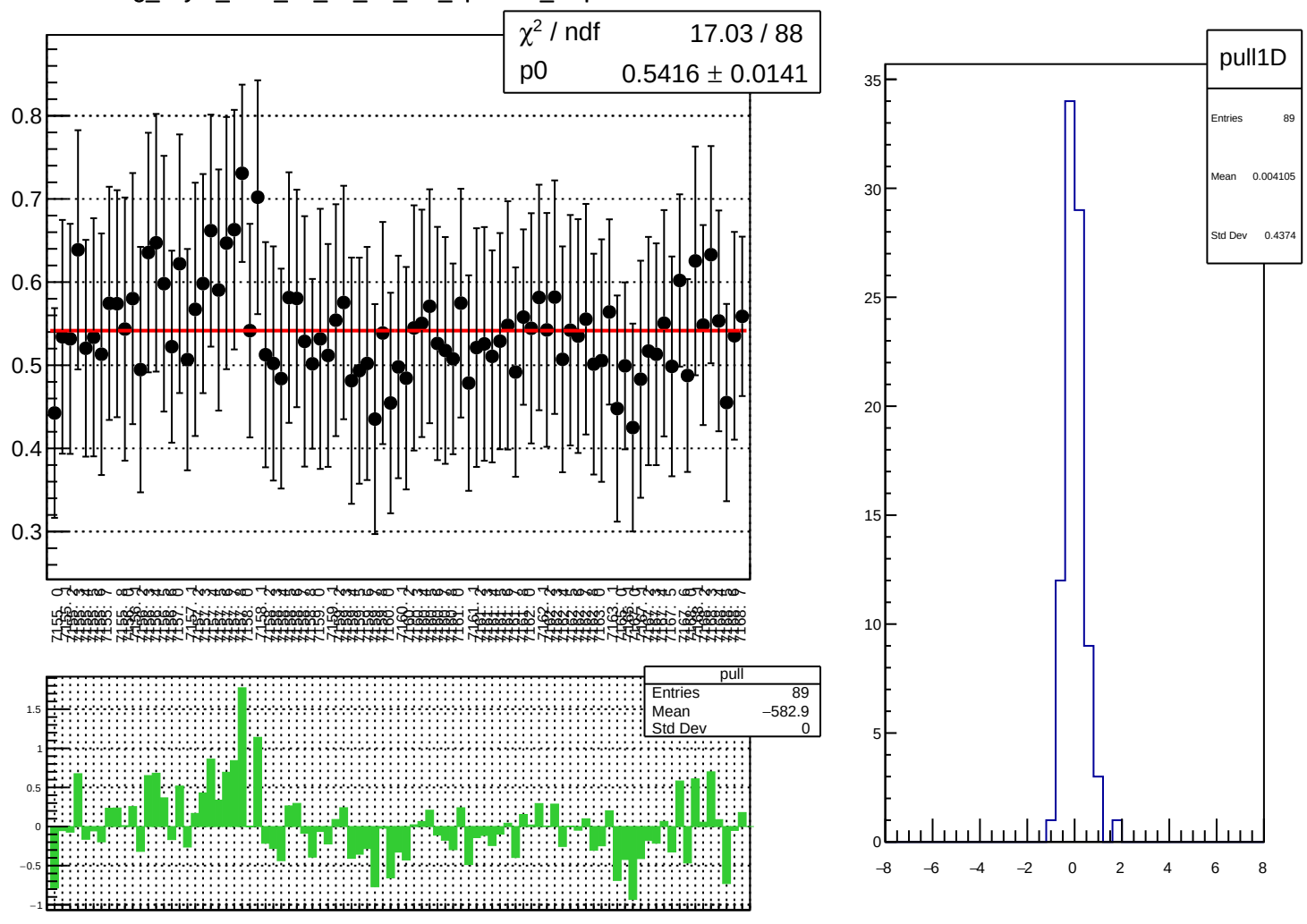

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 15.55 / 88
p0 0.3537 ± 0.01407
pull
Entries 89
Mean 3862
Std Dev 0
pull1D
Entries 89
Mean −0.0008914
Std Dev 0.418

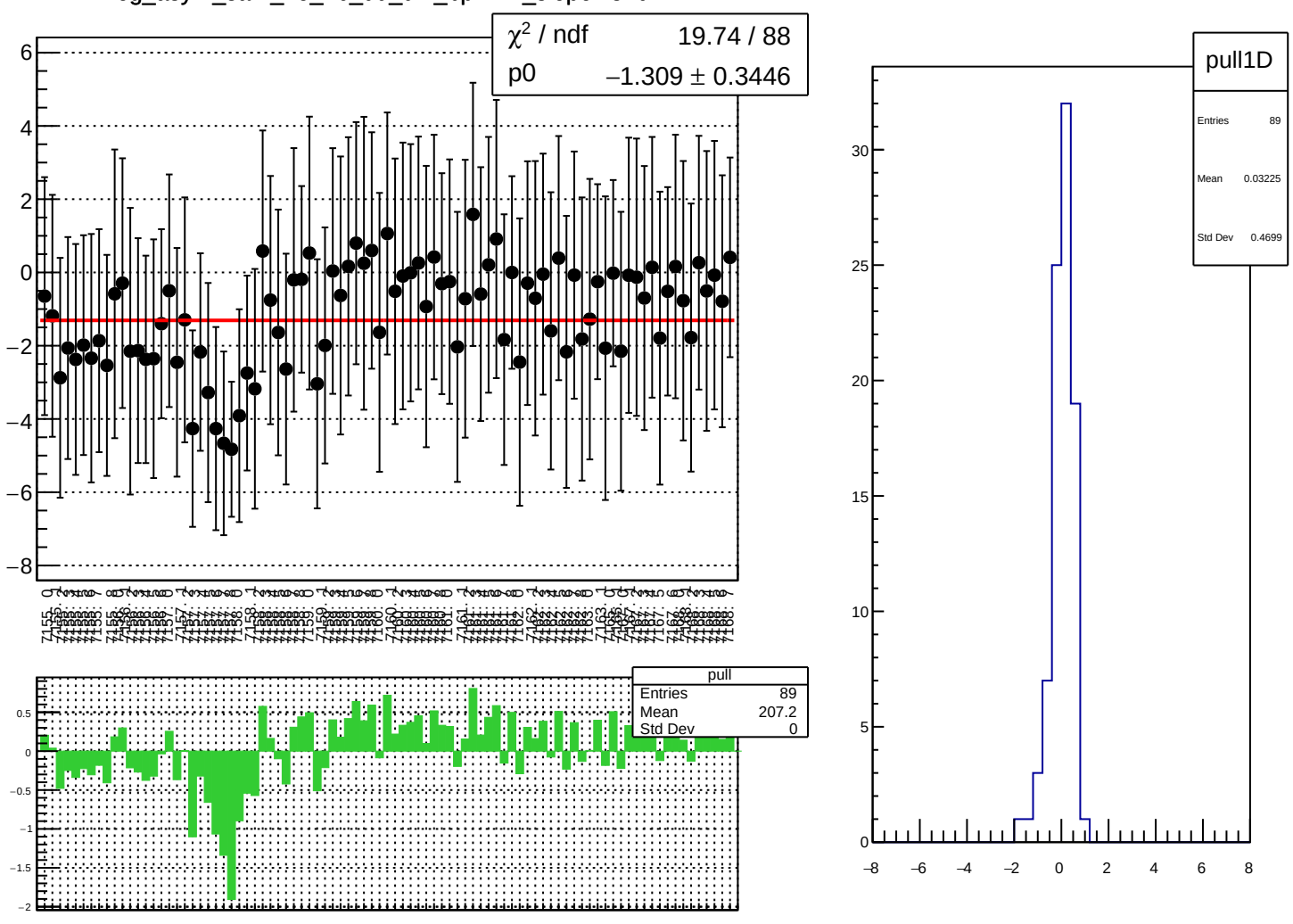

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 244.6 / 88
p0 11.63 ± 0.4087
pull
Entries 89
Mean 244.7
Std Dev 0
pull1D
Entries 89
Mean −0.1174
Std Dev 1.654

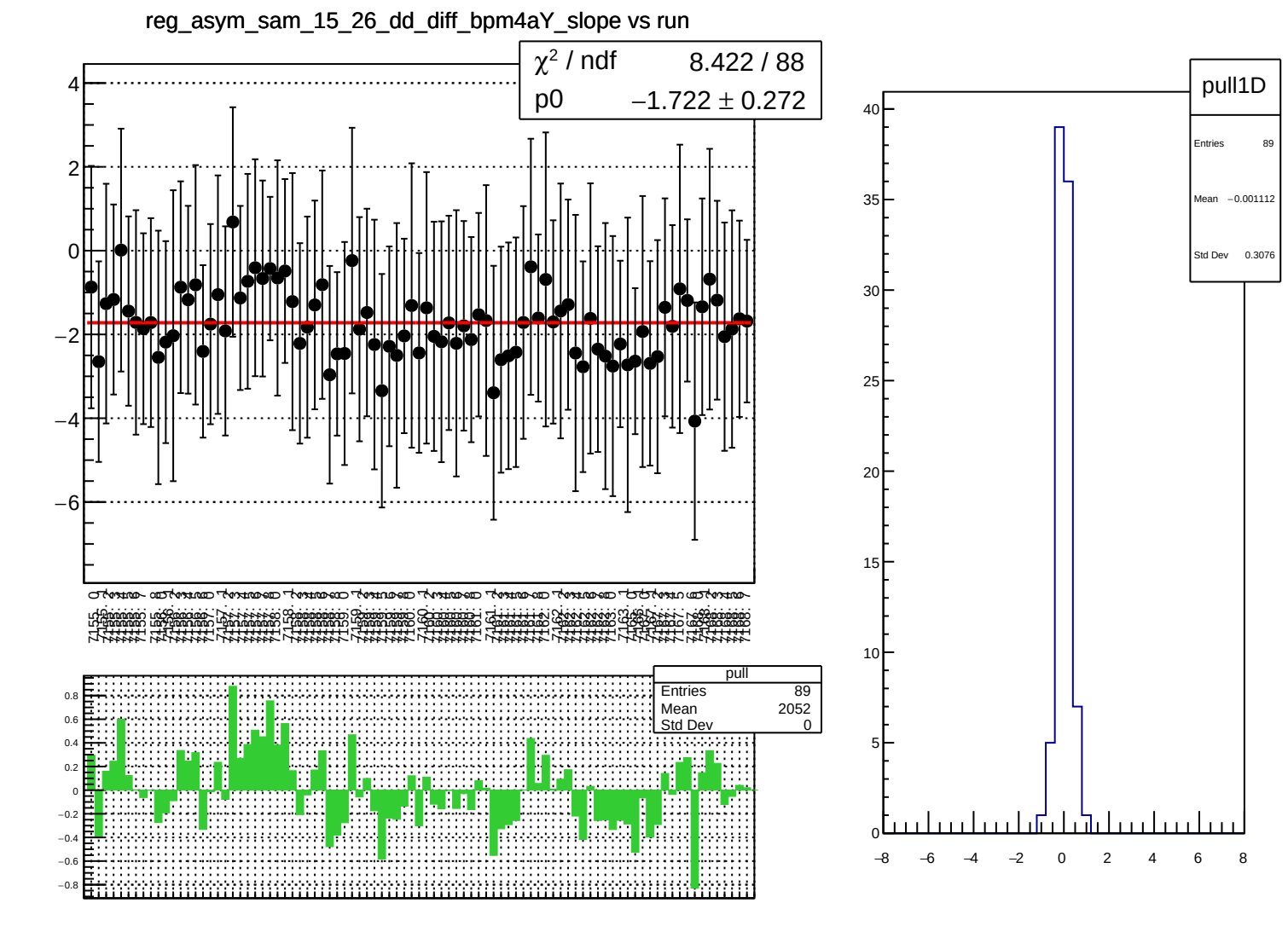

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.06 / 88
p0 1.634 ± 0.3227
pull
Entries 89
Mean −3459
Std Dev 0
pull1D
Entries 89
Mean −0.003973
Std Dev 0.9776

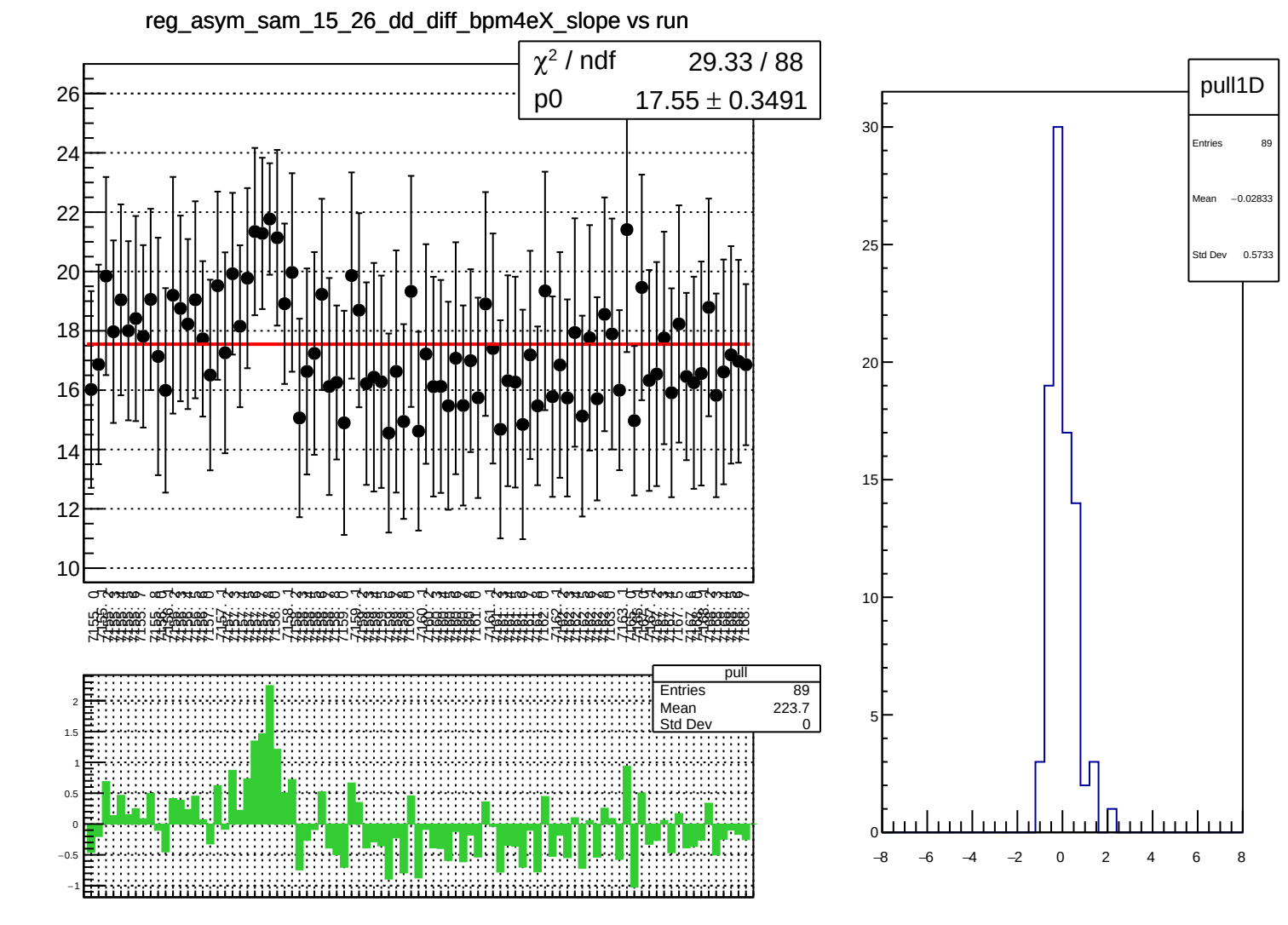

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 224.4 / 88
p0 6.931 ± 0.4141
pull
Entries 89
Mean 247.6
Std Dev 0
pull1D
Entries 89
Mean 0.1091
Std Dev 1.584

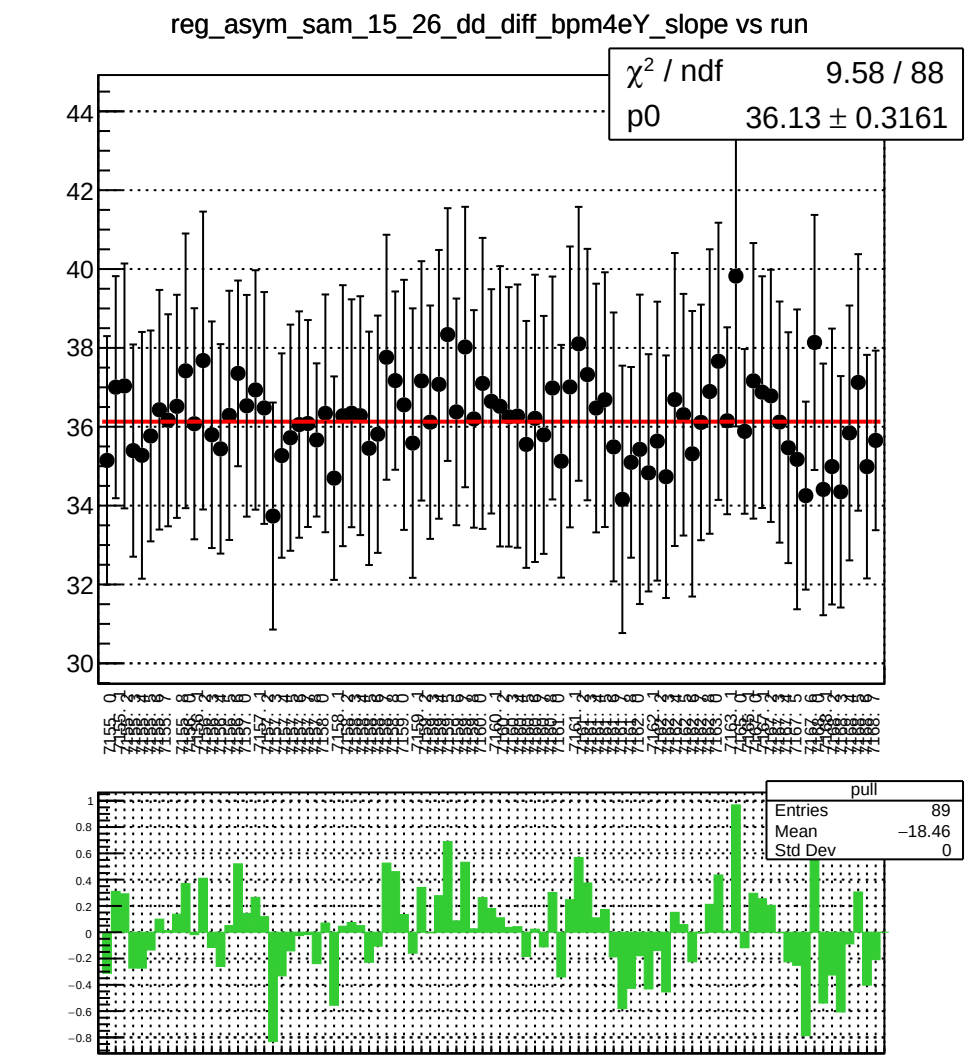

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.2 / 88
p0 −48.27 ± 0.3748
−35
−40
−45
−50
−55
pull
Entries 89
Mean 453.7
Std Dev 0
3
2
1
0
−1
pull1D
Entries 89
Mean −0.02612
Std Dev 0.875
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

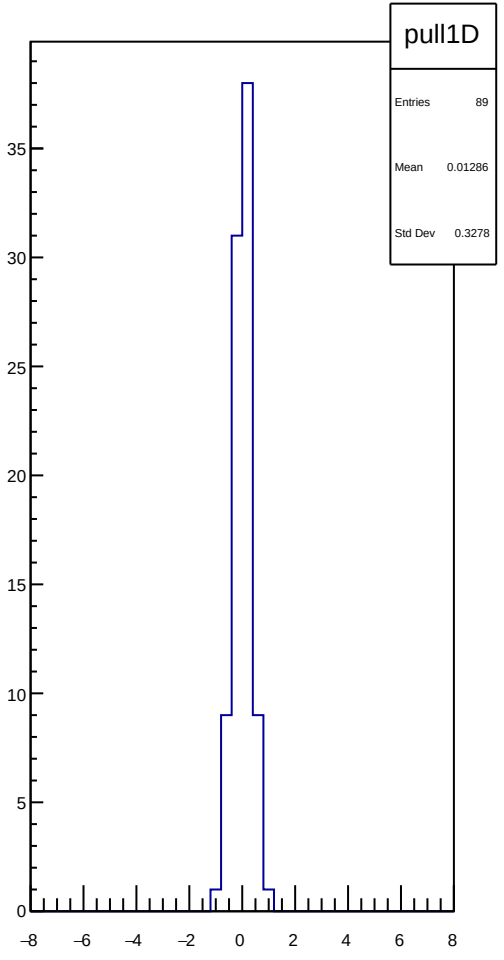

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 17.03 / 88
p0 0.5416 ± 0.0141
pull
Entries 89
Mean −582.9
Std Dev 0
pull1D
Entries 89
Mean 0.004105
Std Dev 0.4374

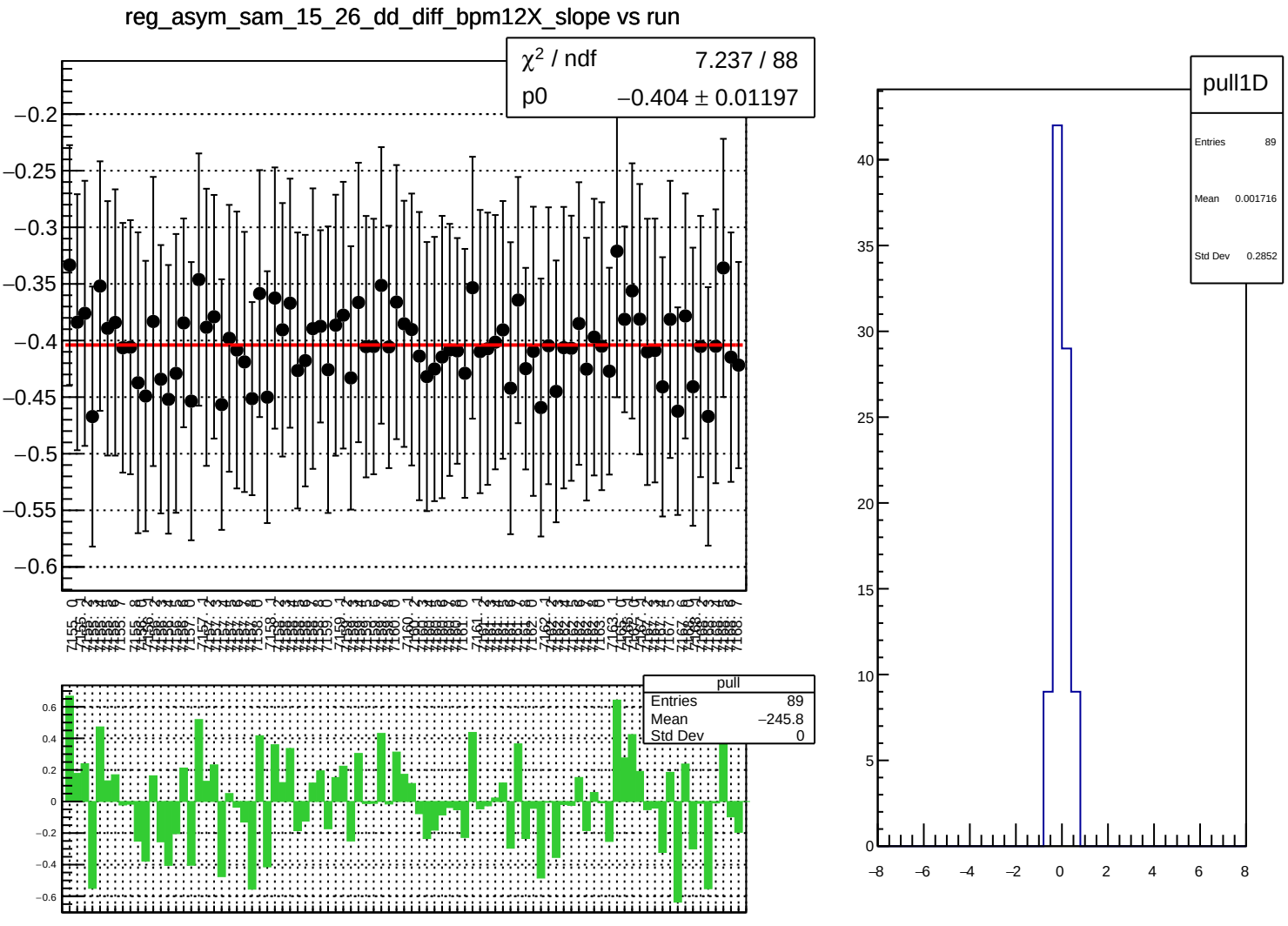

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 19.74 / 88
p0 −1.309 ± 0.3446
pull
Entries 89
Mean 207.2
Std Dev 0
pull1D
Entries 89
Mean 0.03225
Std Dev 0.4699

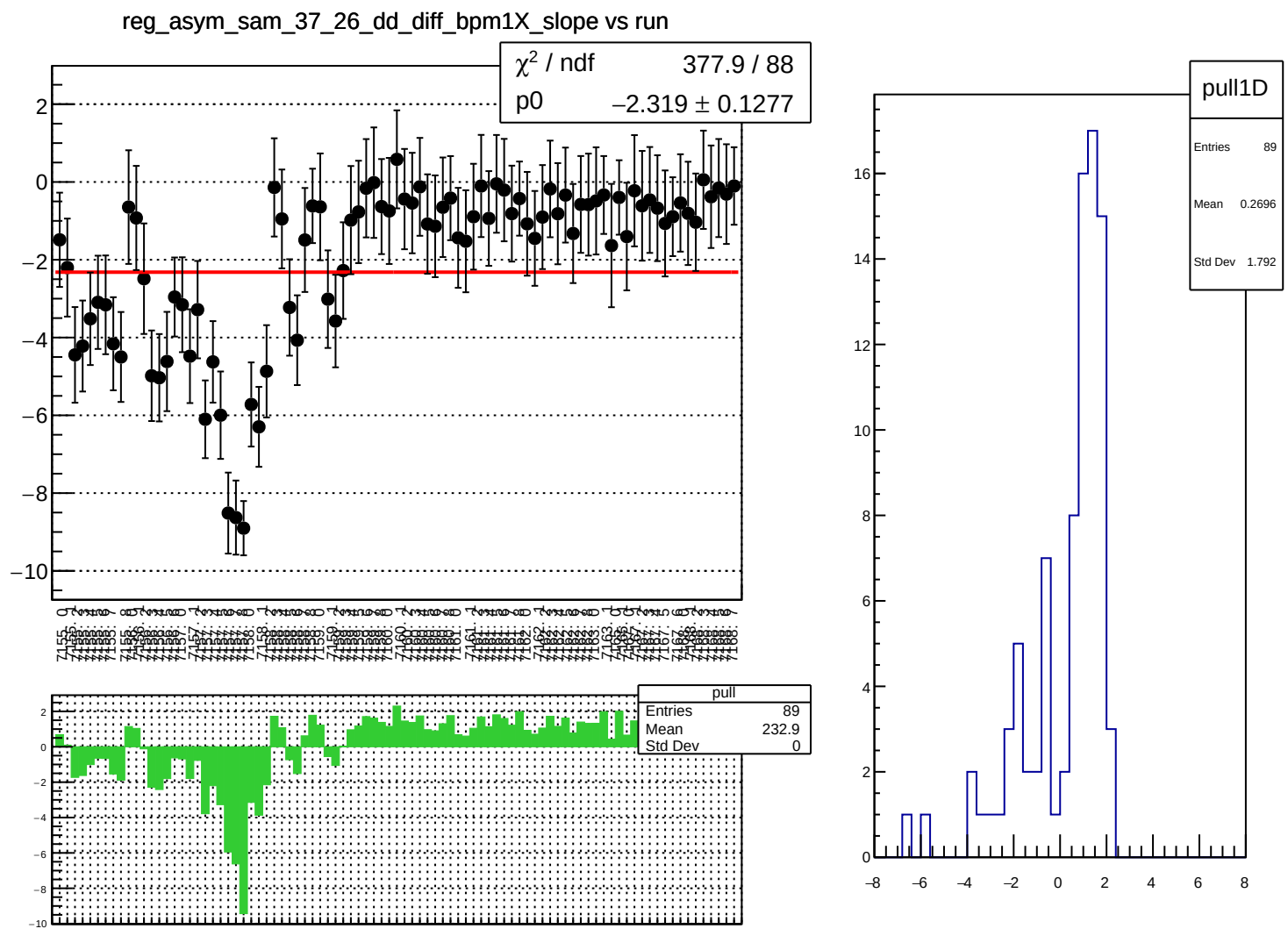

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.422 / 88
p0 −1.722 ± 0.272
pull
Entries 89
Mean 2052
Std Dev 0
pull1D
Entries 89
Mean −0.001112
Std Dev 0.3076

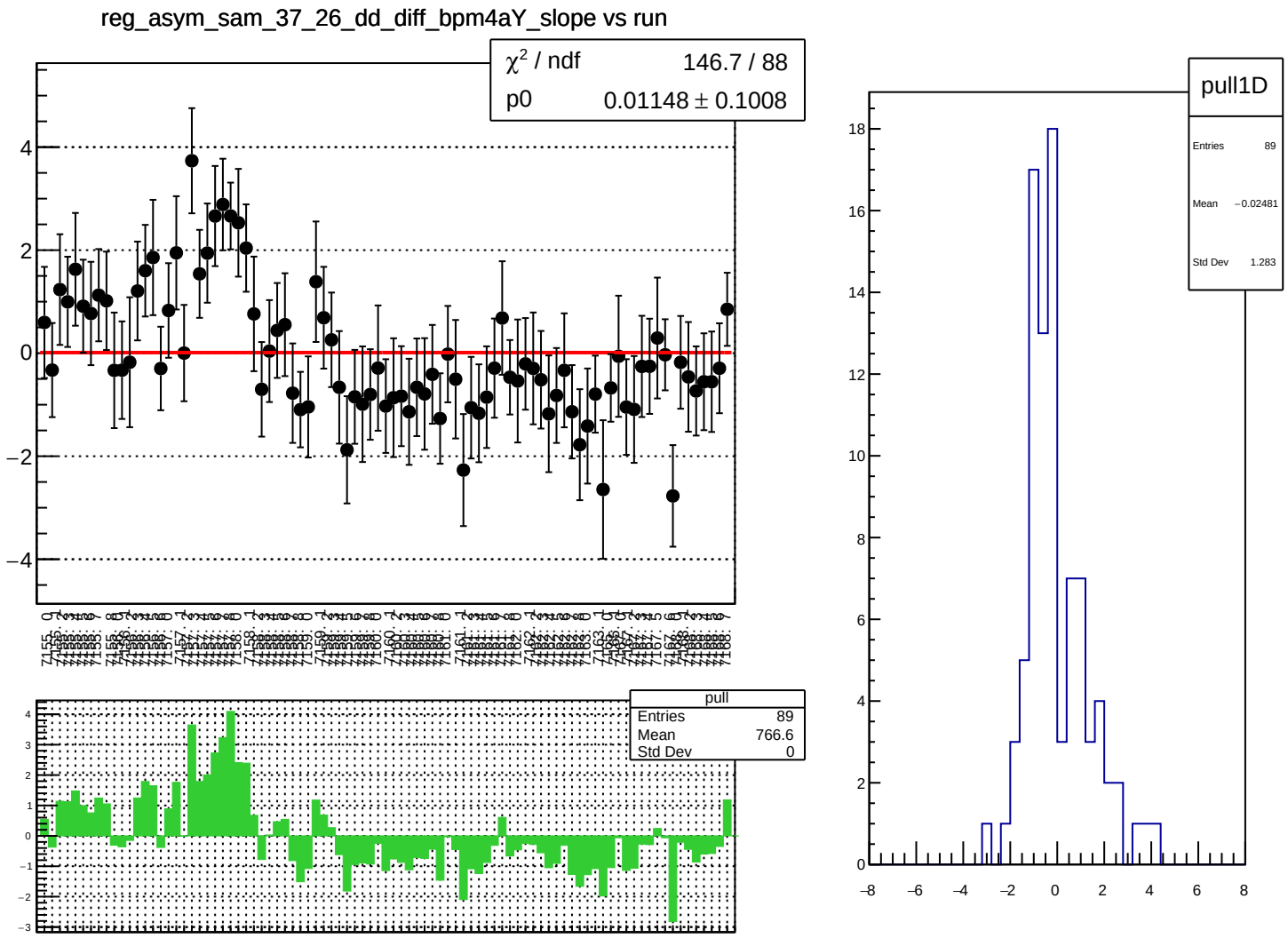

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.33 / 88
p0 17.55 ± 0.3491
pull
Entries 89
Mean 223.7
Std Dev 0
pull1D
Entries 89
Mean −0.02833
Std Dev 0.5733

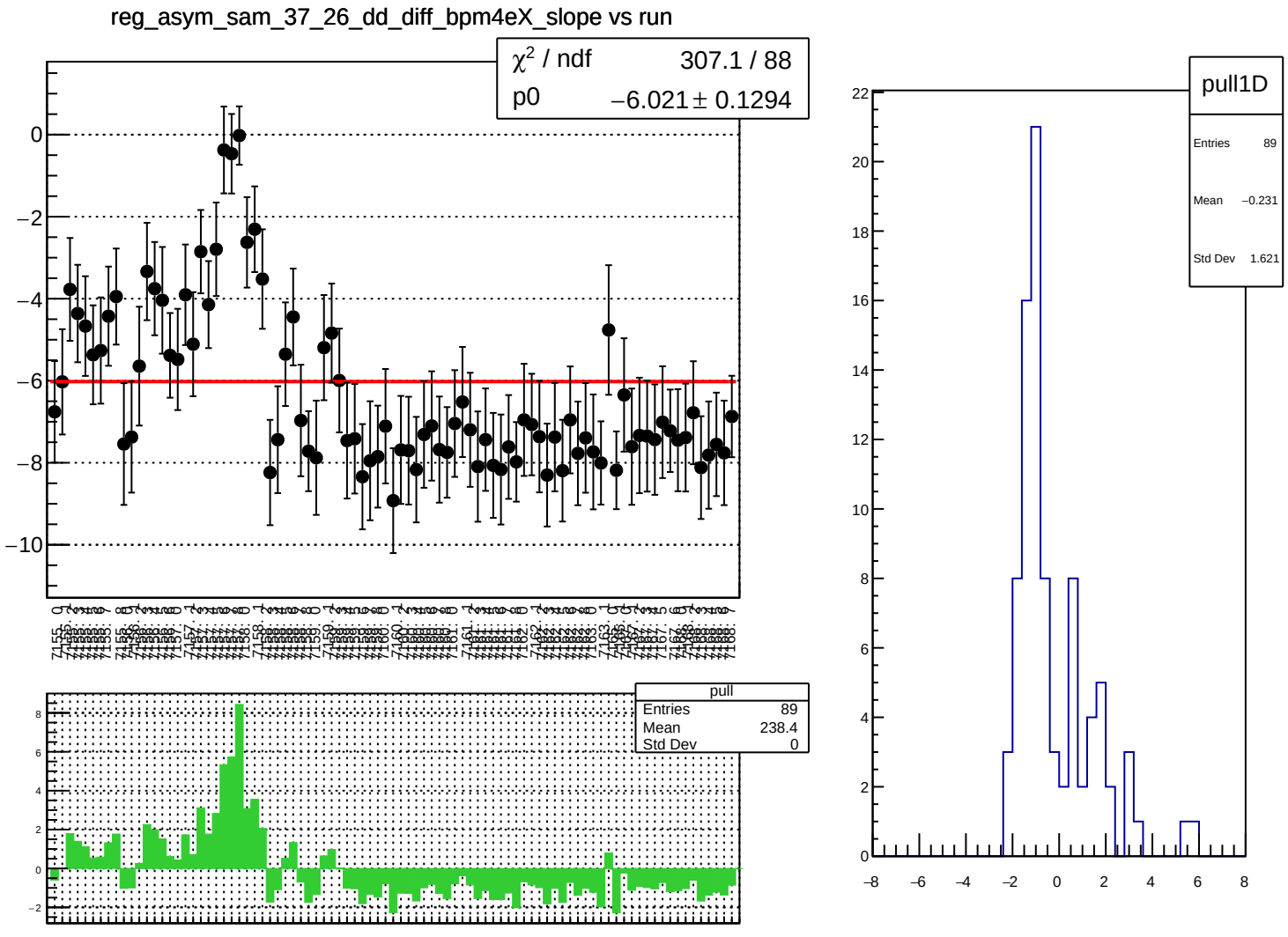

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.58 / 88
p0 36.13 ± 0.3161
pull
Entries 89
Mean −18.46
Std Dev 0

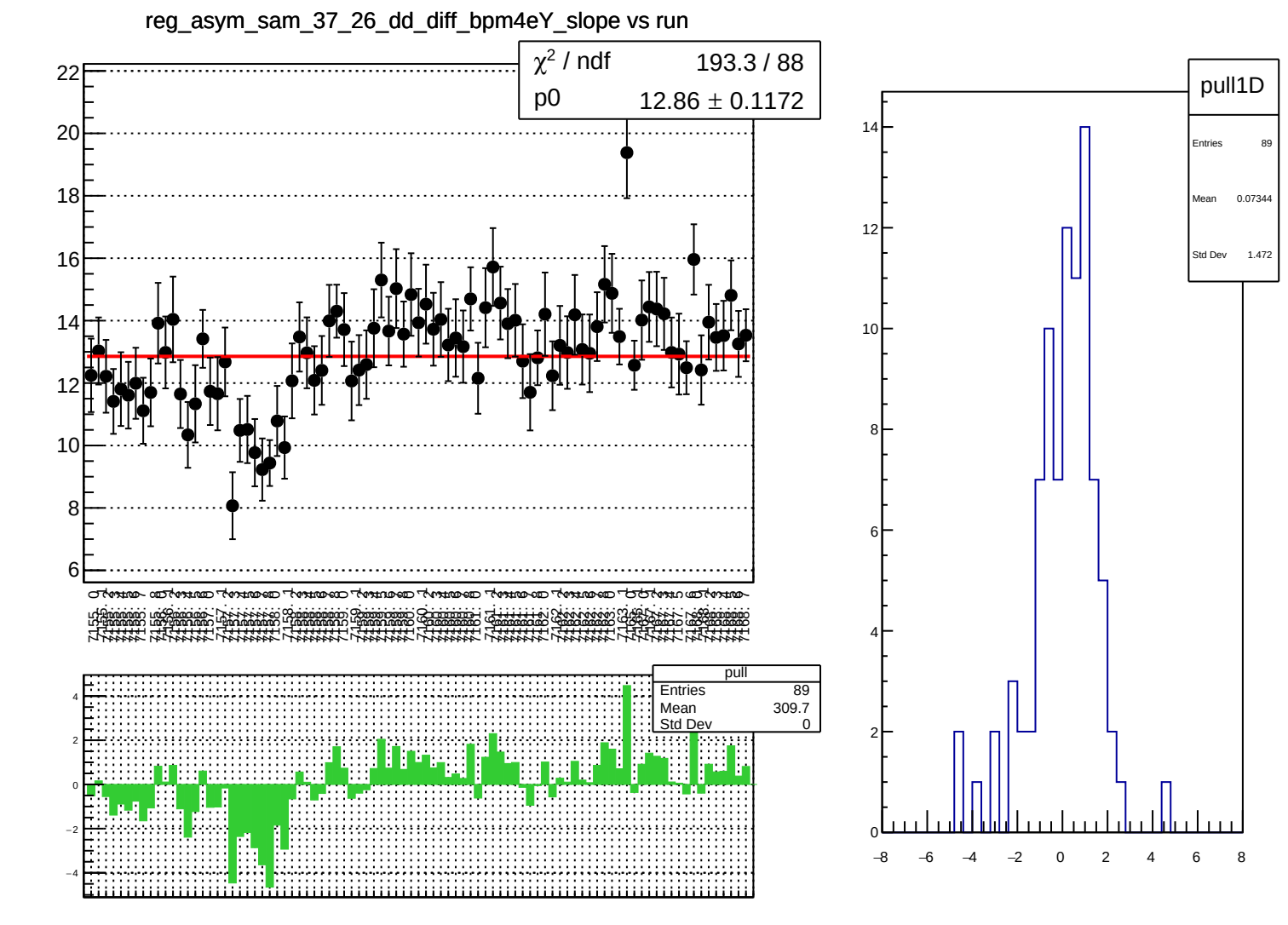

pull1D
Entries 89
Mean 0.01286
Std Dev 0.3278

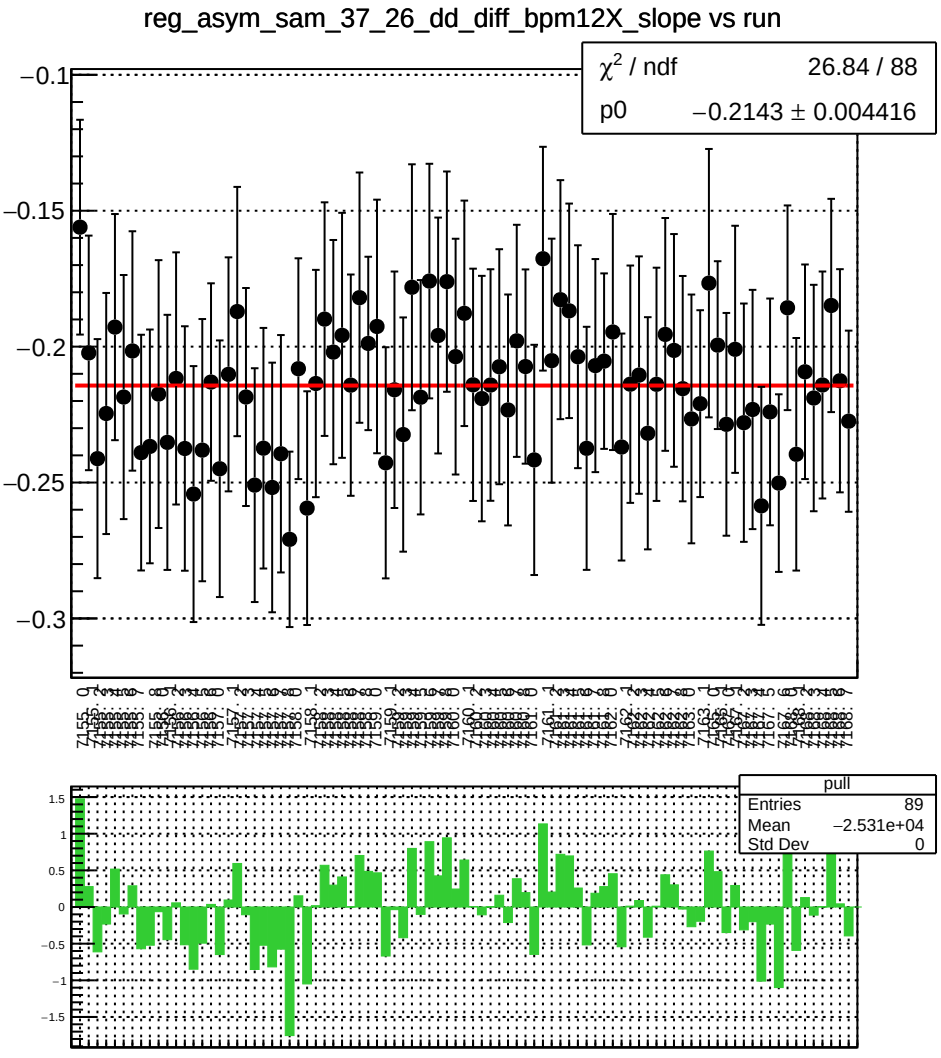

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 7.237 / 88
p0 −0.404 ± 0.01197
pull
Entries 89
Mean −245.8
Std Dev 0
pull1D
Entries 89
Mean 0.001716
Std Dev 0.2852

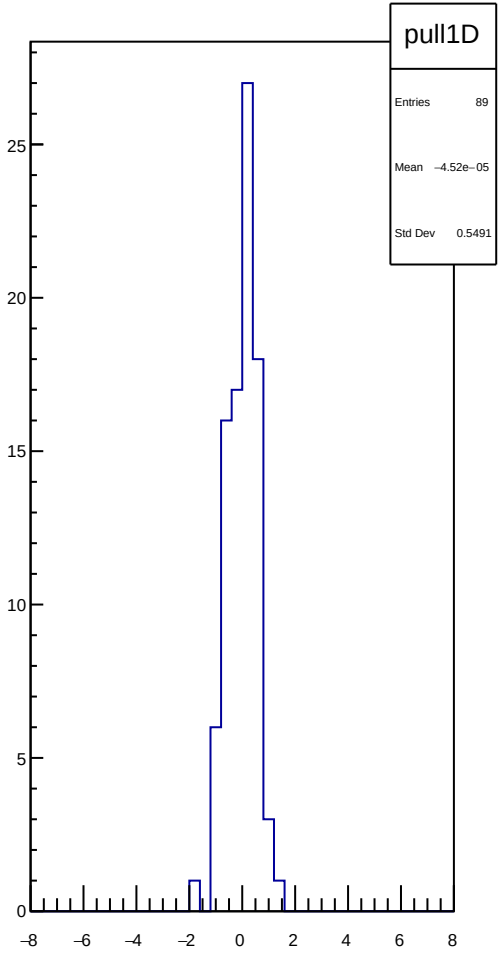

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 377.9 / 88
p0 −2.319 ± 0.1277
pull
Entries 89
Mean 232.9
Std Dev 0
pull1D
Entries 89
Mean 0.2696
Std Dev 1.792

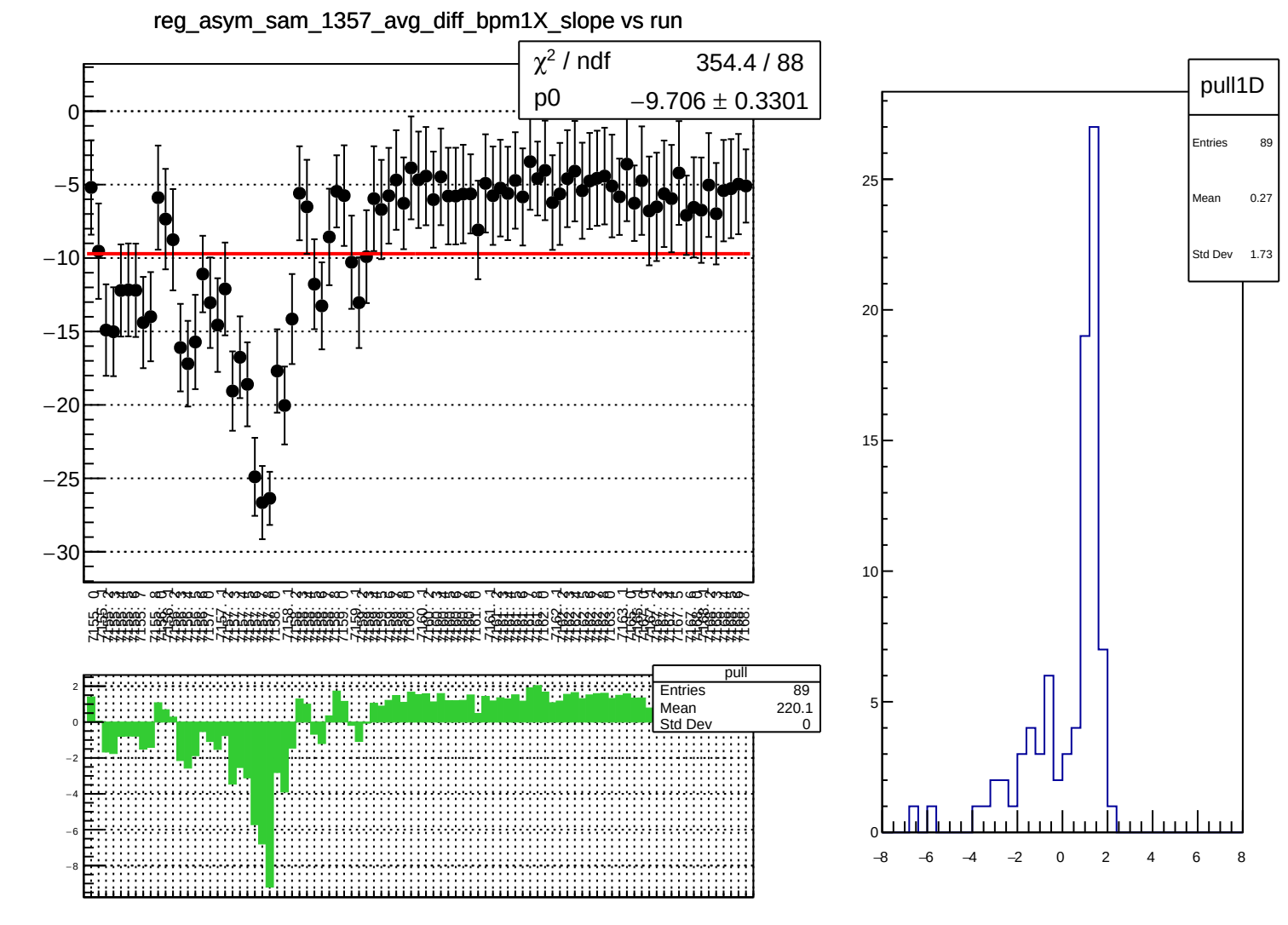

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 146.7 / 88
p0 0.01148 ± 0.1008
pull
Entries 89
Mean 766.6
Std Dev 0
pull1D
Entries 89
Mean −0.02481
Std Dev 1.283

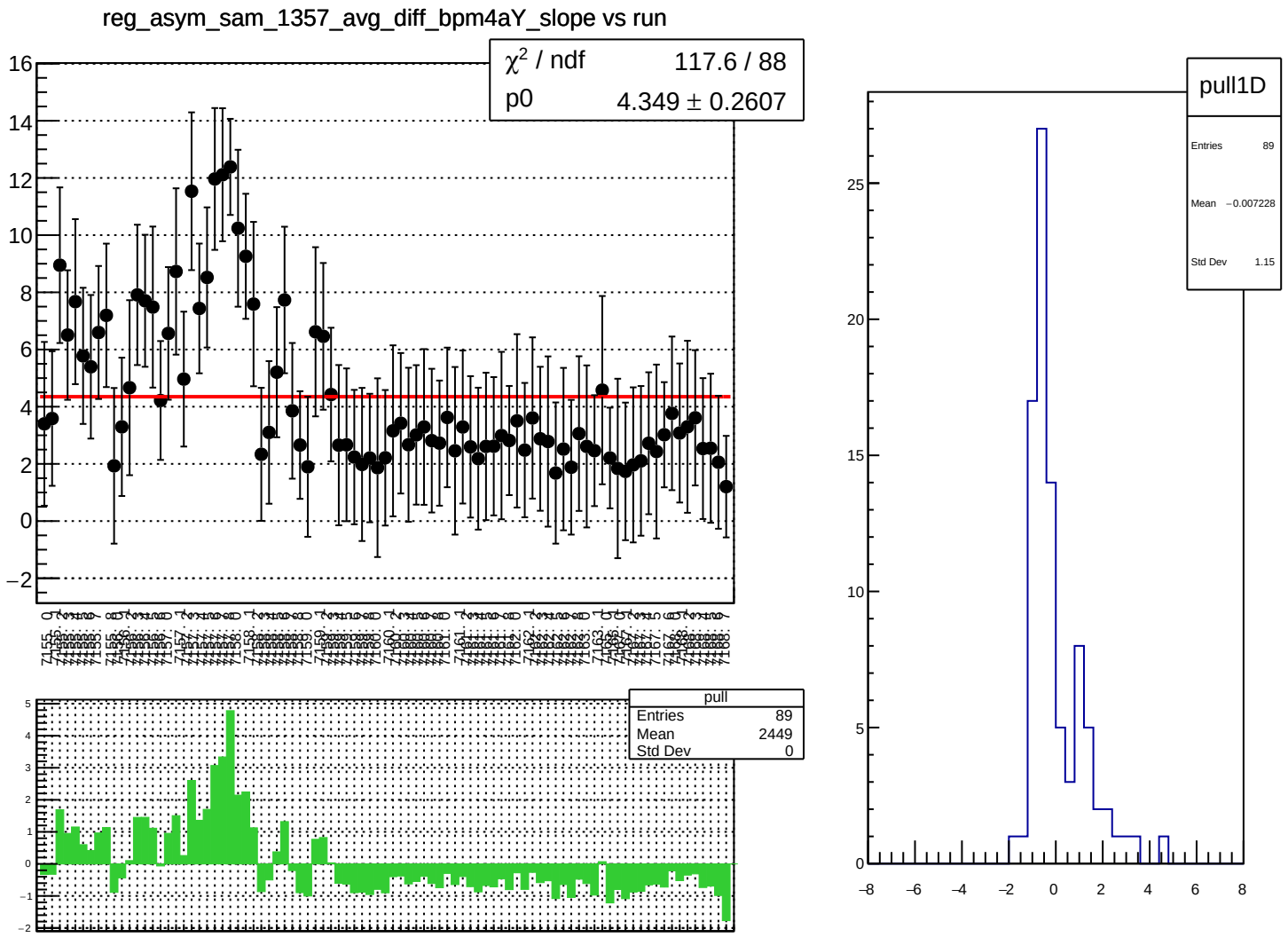

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 307.1 / 88
p0 −6.021 ± 0.1294
pull
Entries 89
Mean 238.4
Std Dev 0
pull1D
Entries 89
Mean −0.231
Std Dev 1.621

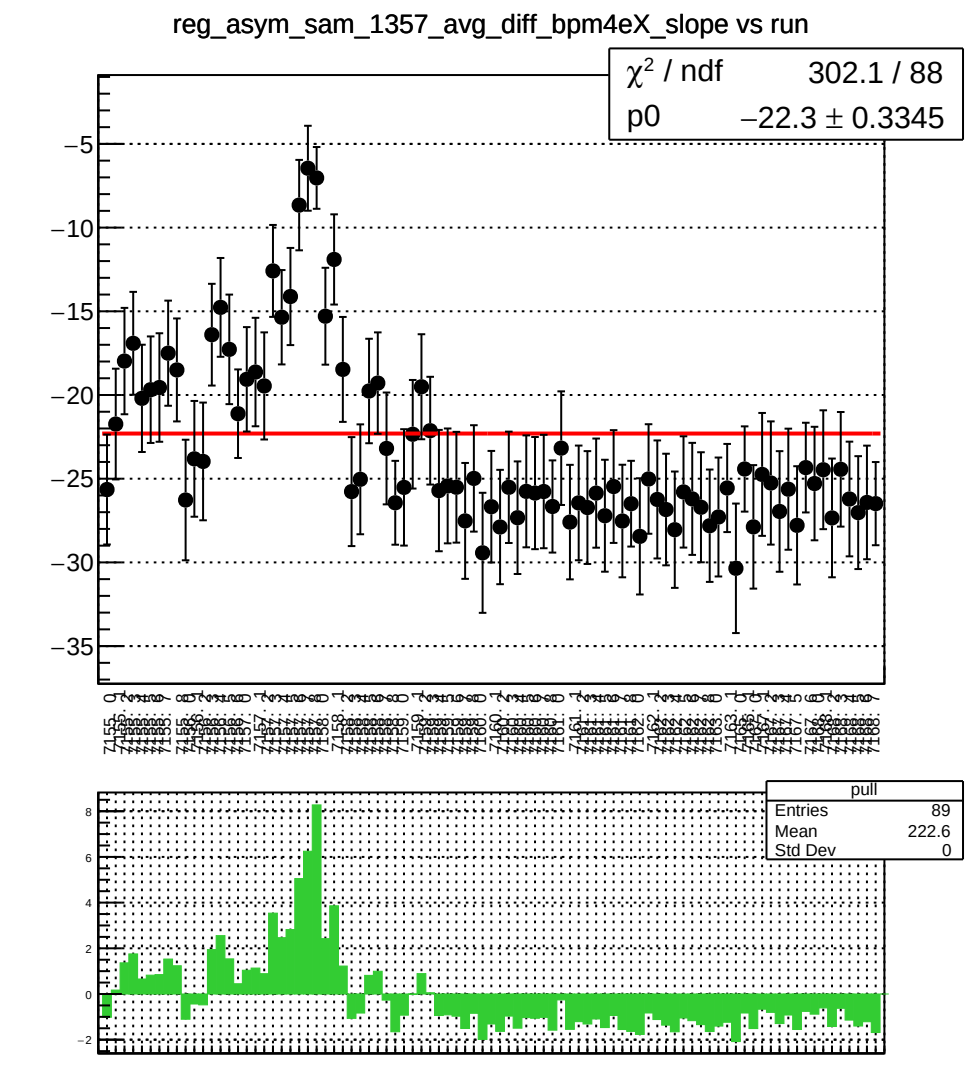

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 193.3 / 88
p0 12.86 ± 0.1172
pull
Entries 89
Mean 309.7
Std Dev 0
pull1D
Entries 89
Mean 0.07344
Std Dev 1.472

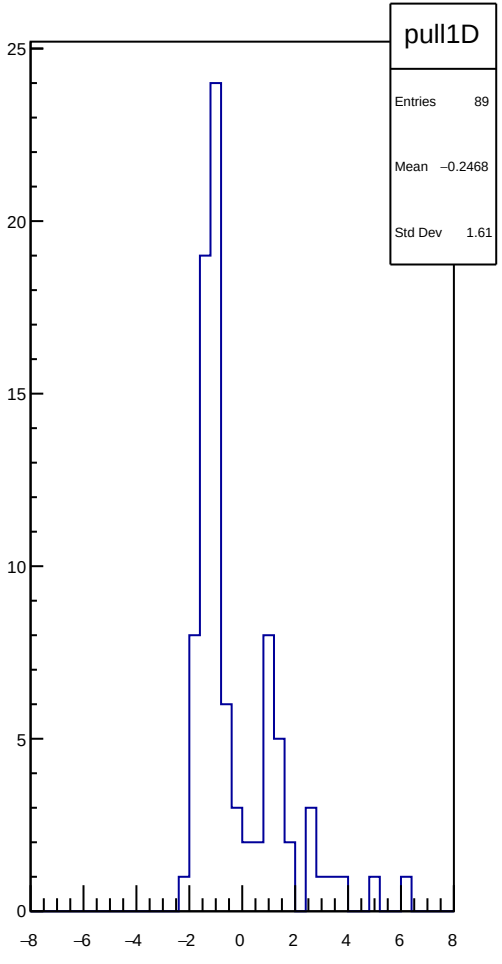

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 26.84 / 88
p0 −0.2143 ± 0.004416
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 89
Mean −2.531e+04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

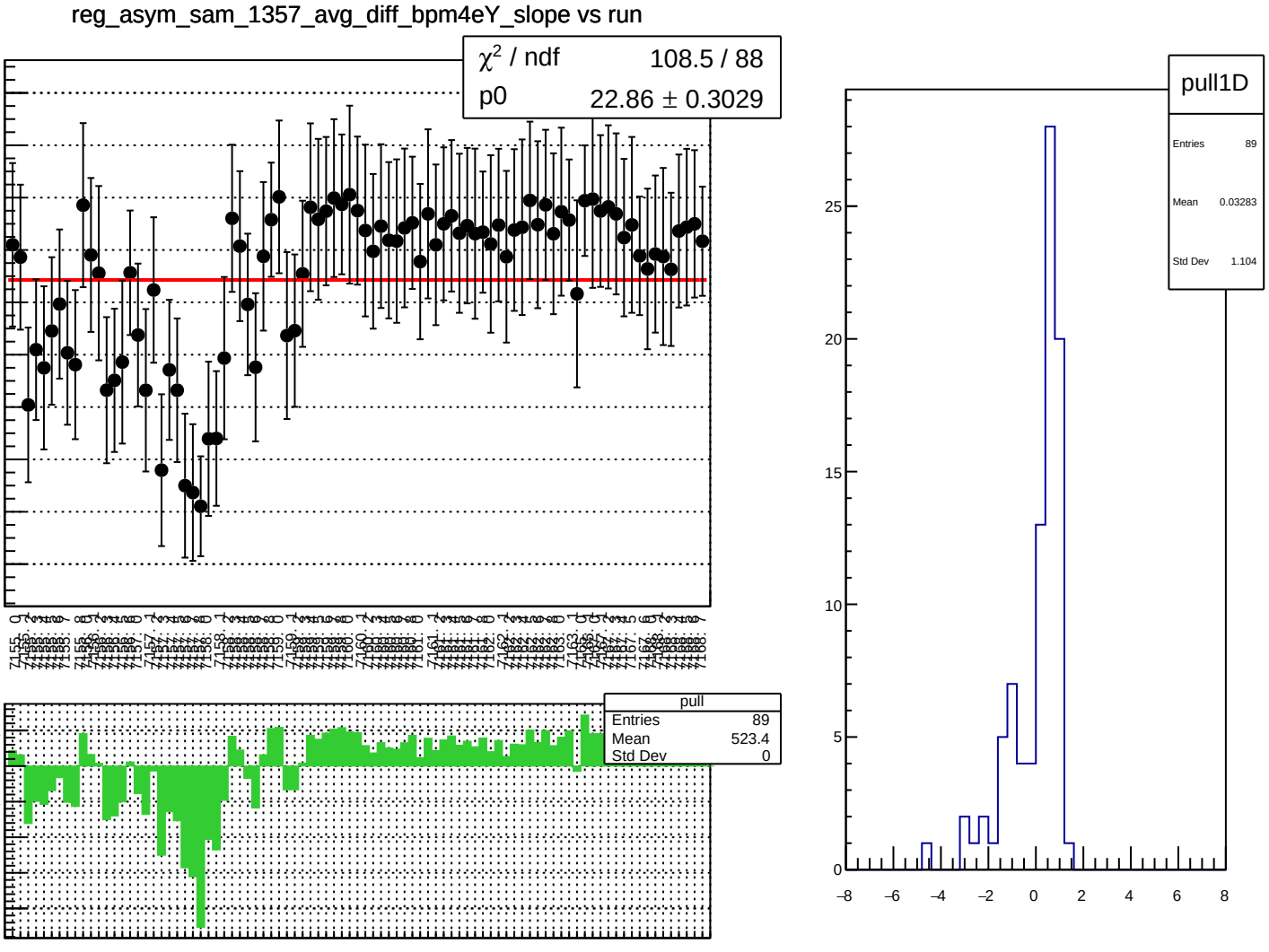

pull1D
Entries 89
Mean −4.52e−05
Std Dev 0.5491
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

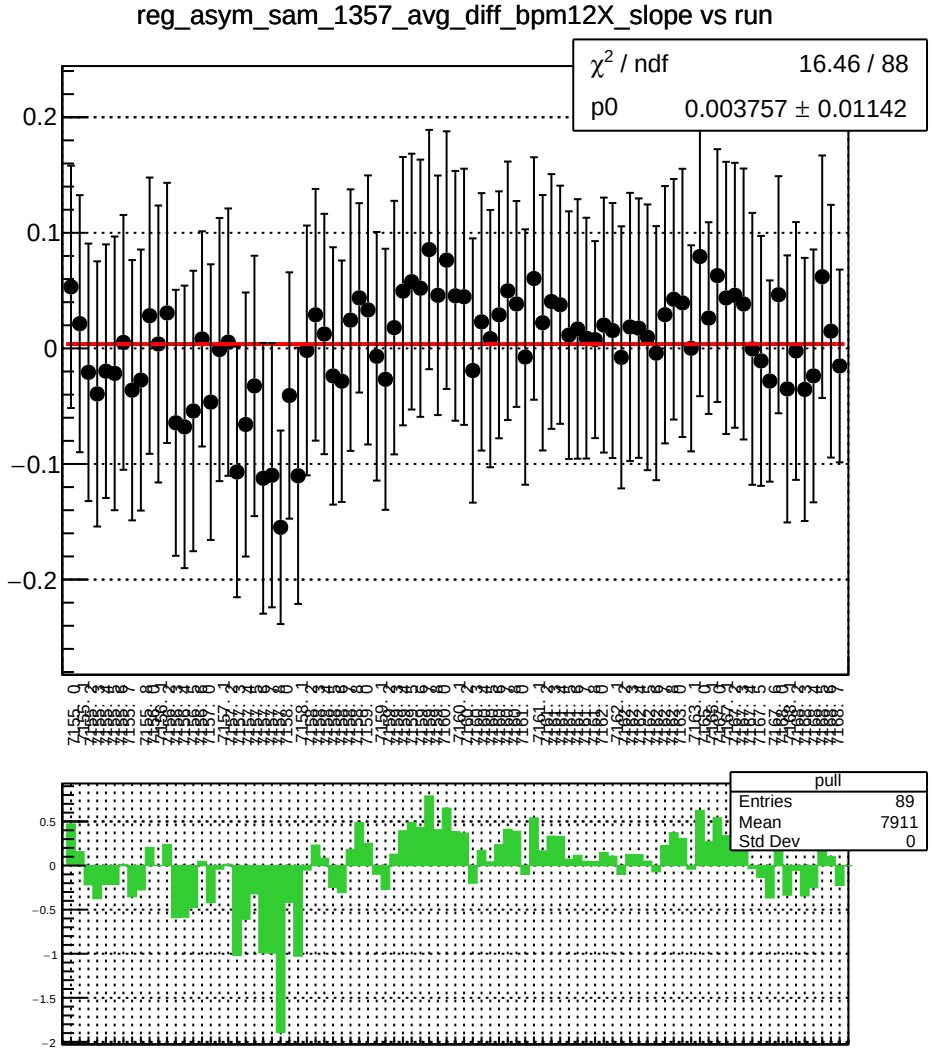

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 354.4 / 88
p0 −9.706 ± 0.3301
pull
Entries 89
Mean 220.1
Std Dev 0
pull1D
Entries 89
Mean 0.27
Std Dev 1.73

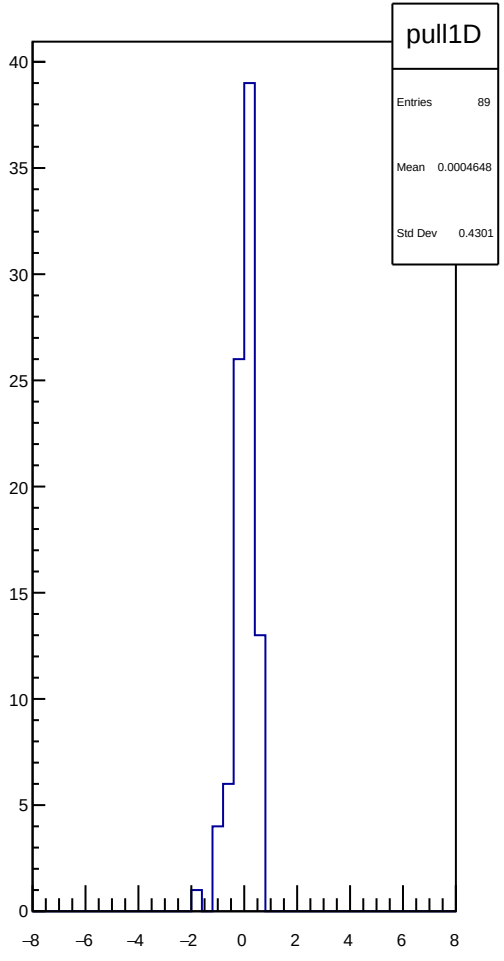

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 117.6 / 88
p0 4.349 ± 0.2607
pull
Entries 89
Mean 2449
Std Dev 0
pull1D
Entries 89
Mean −0.007228
Std Dev 1.15

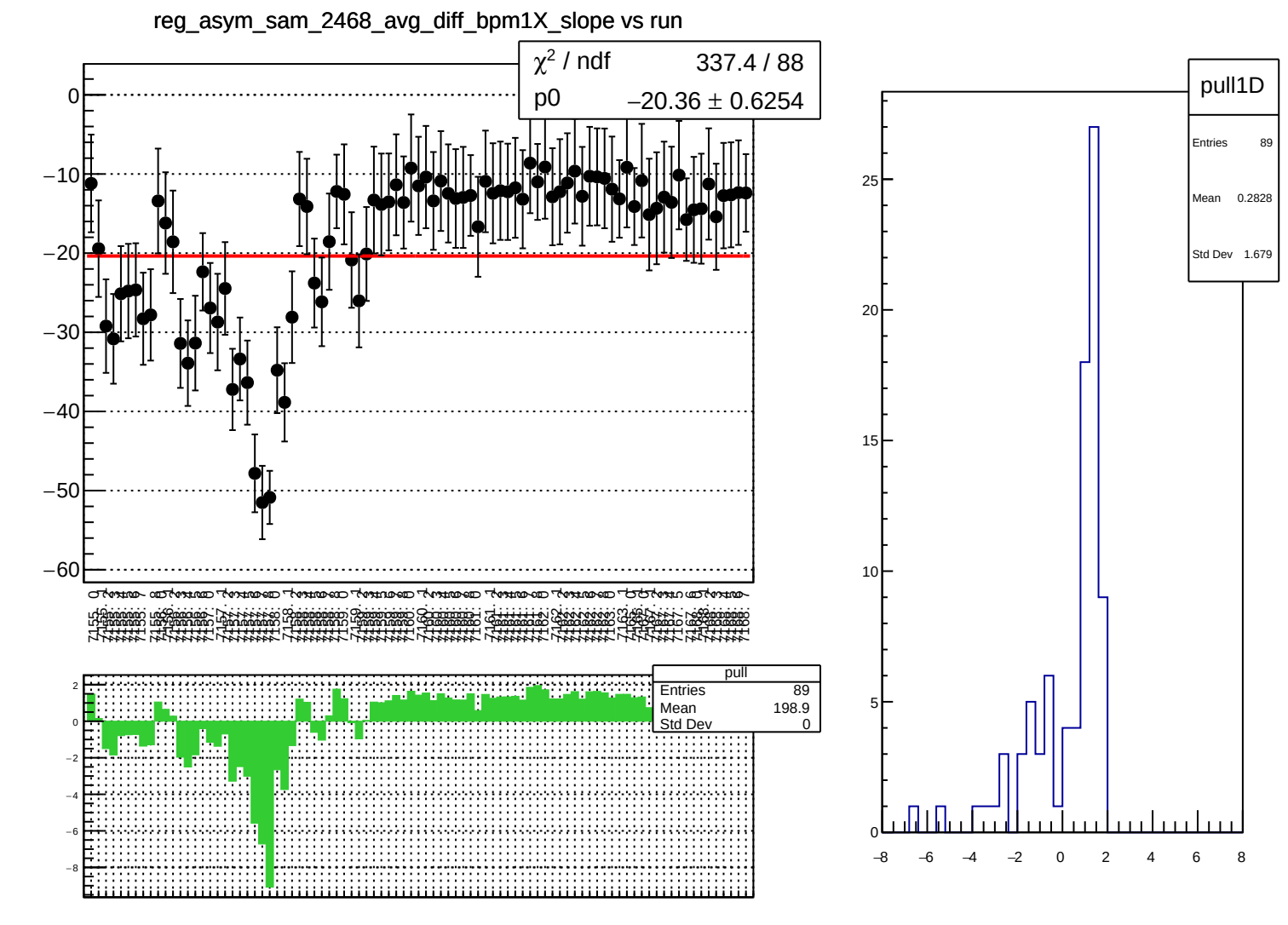

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 302.1 / 88
p0 −22.3 ± 0.3345
pull
Entries 89
Mean 222.6
Std Dev 0

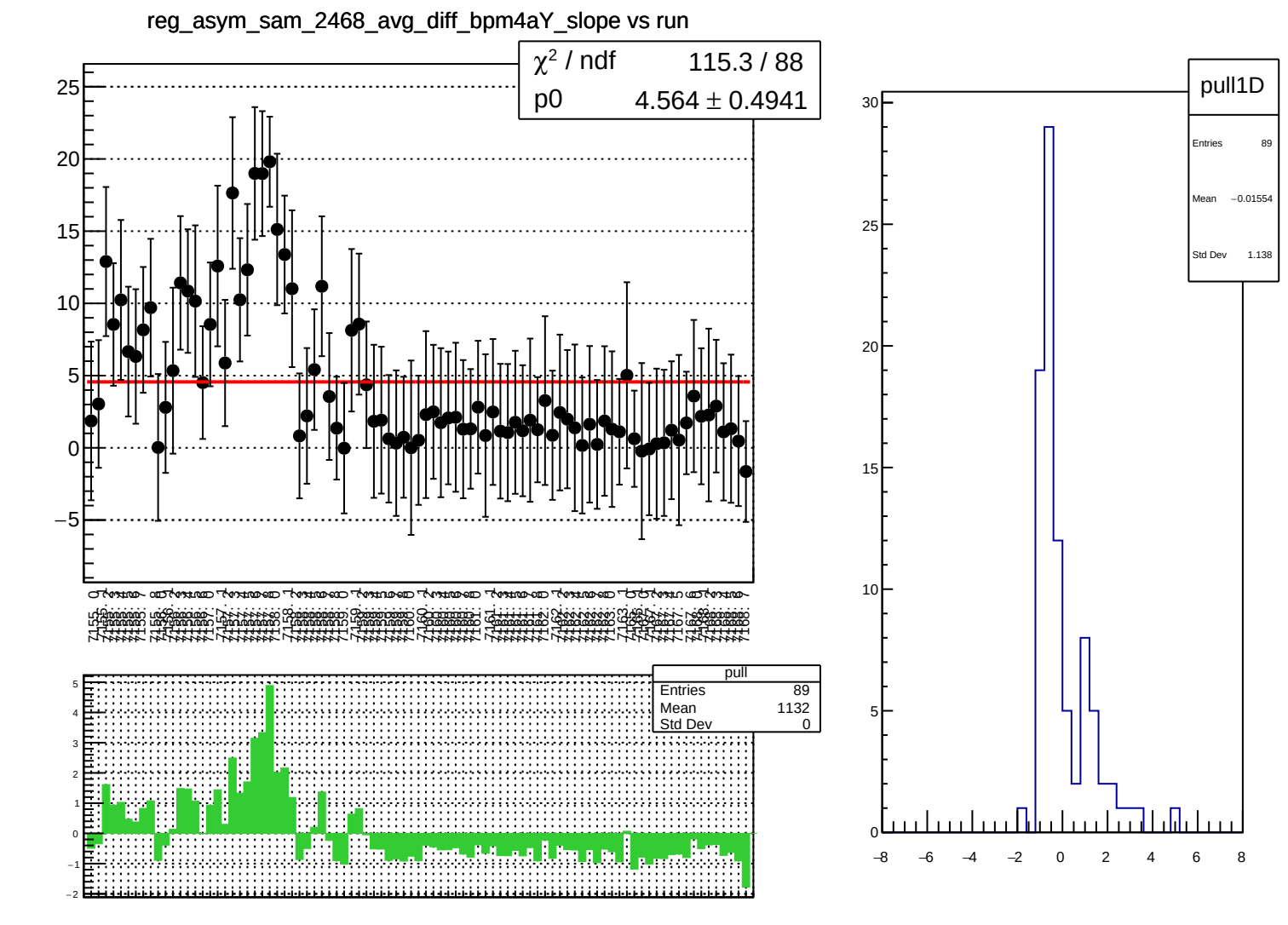

pull1D
Entries 89
Mean −0.2468
Std Dev 1.61

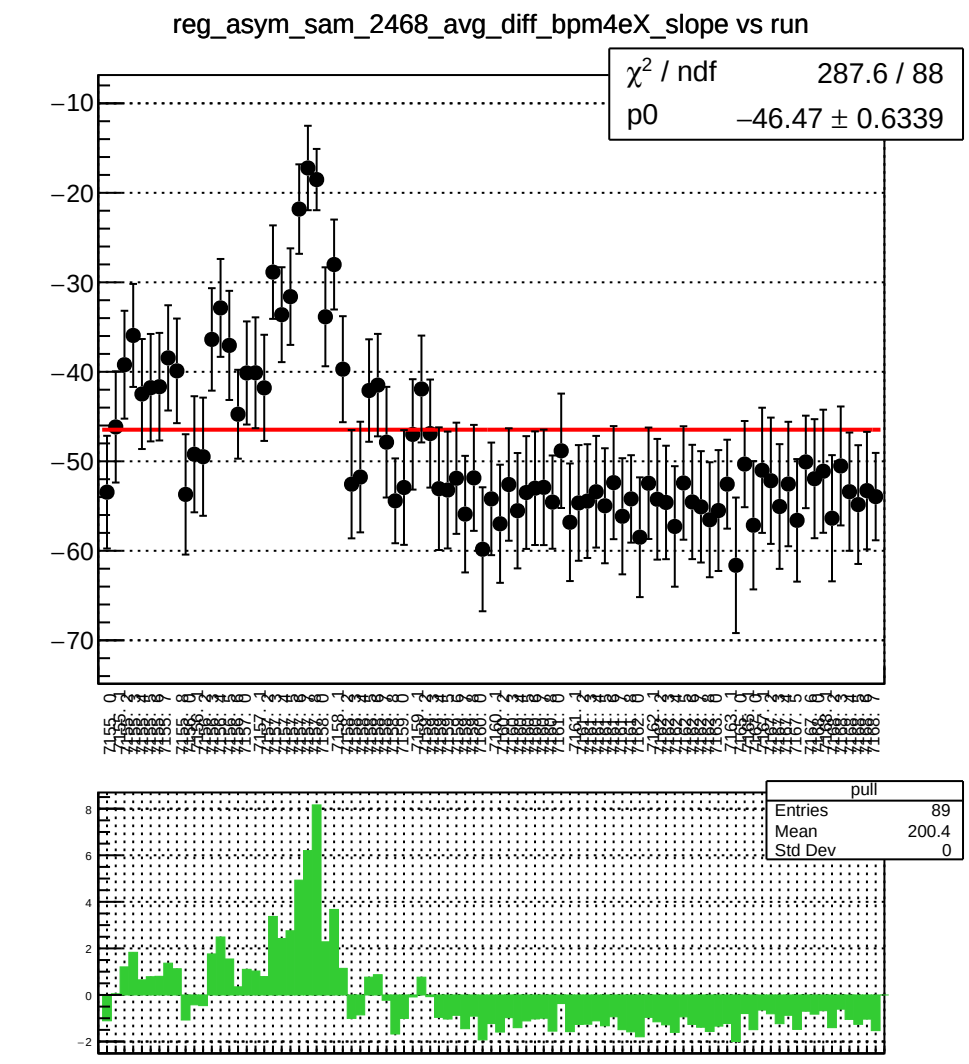

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.5 / 88
p0 22.86 ± 0.3029
pull
Entries 89
Mean 523.4
Std Dev 0
pull1D
Entries 89
Mean 0.03283
Std Dev 1.104

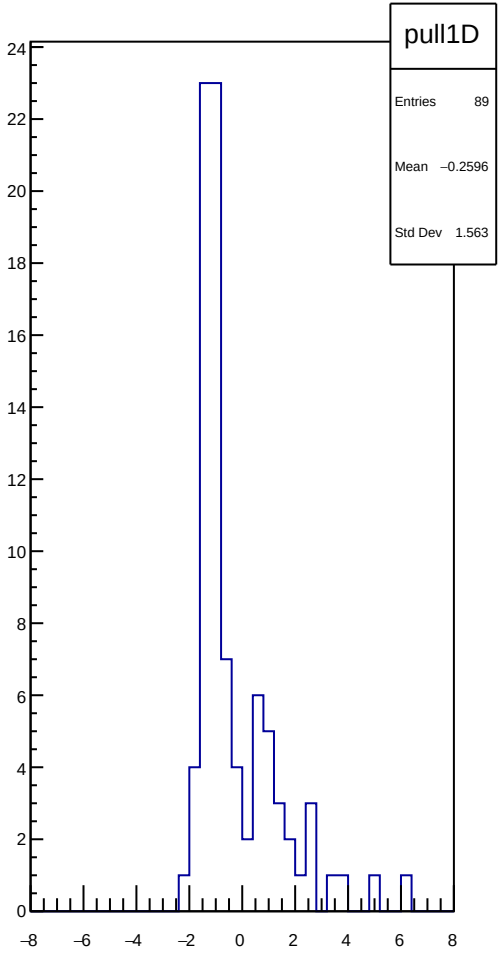

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 16.46 / 88
p0 0.003757 ± 0.01142
pull
Entries 89
Mean 7911
Std Dev 0

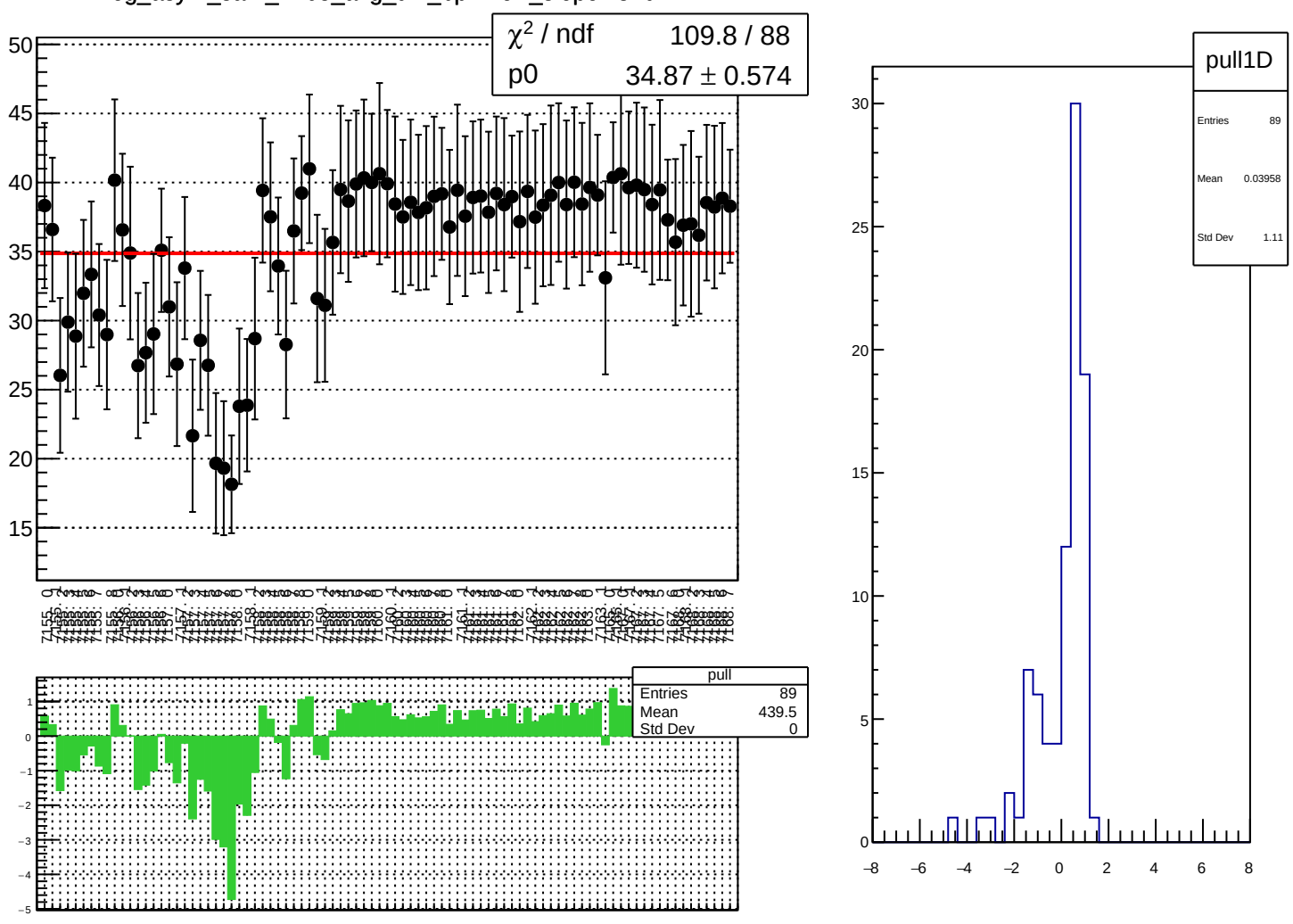

pull1D
Entries 89
Mean 0.0004648
Std Dev 0.4301

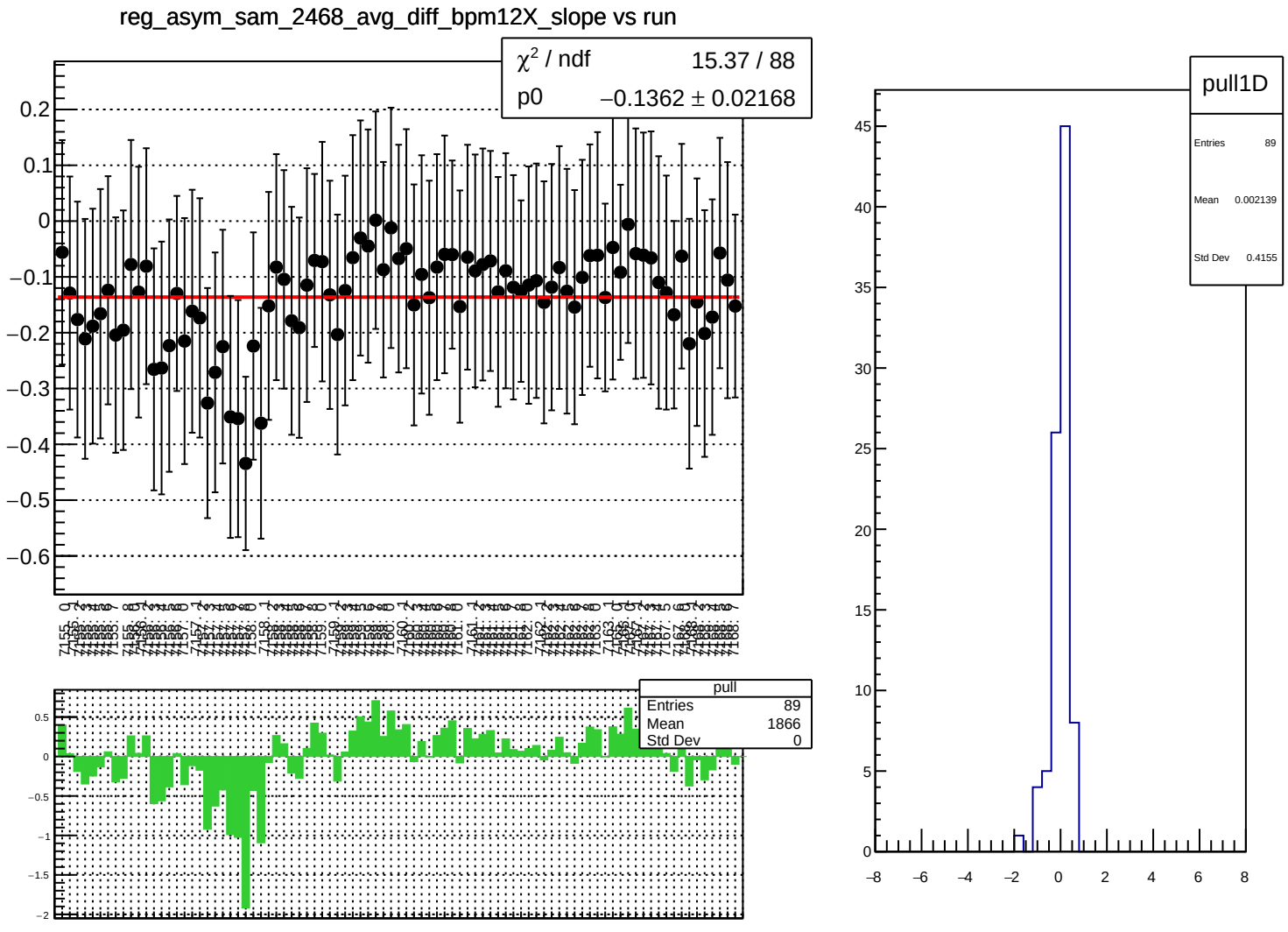

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 337.4 / 88
p0 −20.36 ± 0.6254
pull
Entries 89
Mean 198.9
Std Dev 0
pull1D
Entries 89
Mean 0.2828
Std Dev 1.679

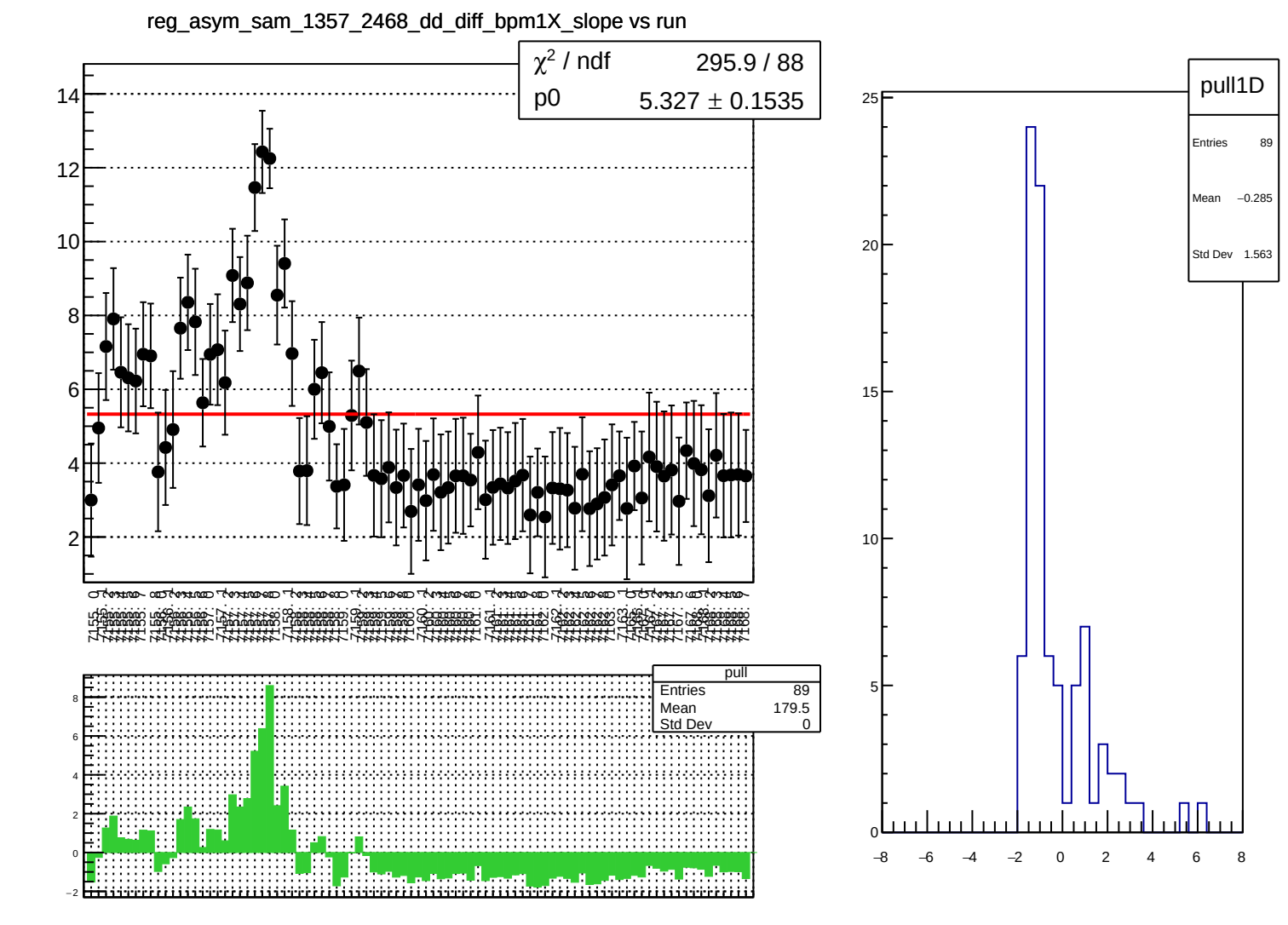

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.3 / 88
p0 4.564 ± 0.4941
pull
Entries 89
Mean 1132
Std Dev 0
pull1D
Entries 89
Mean −0.01554
Std Dev 1.138

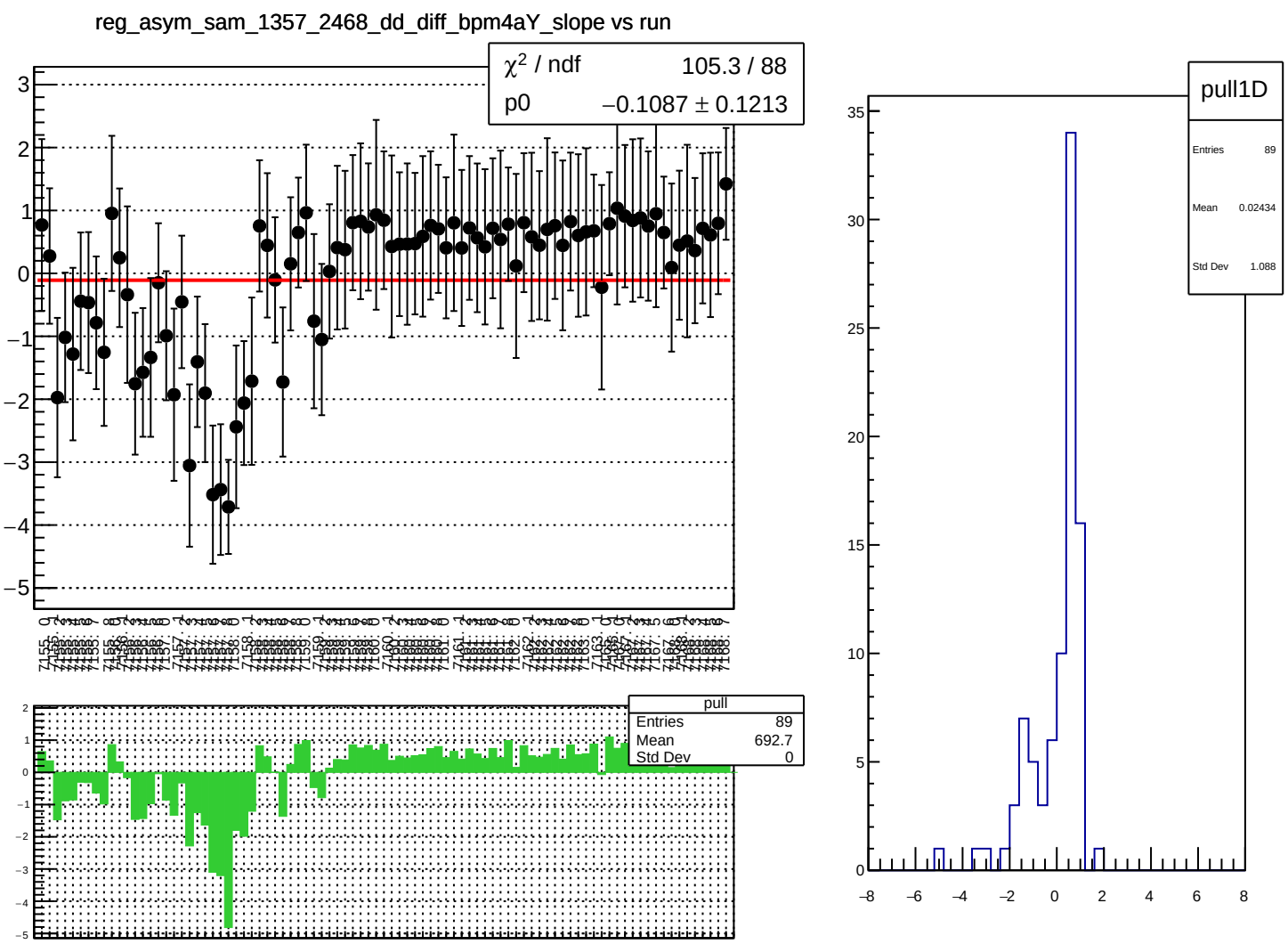

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 287.6 / 88
p0 −46.47 ± 0.6339
pull
Entries 89
Mean 200.4
Std Dev 0

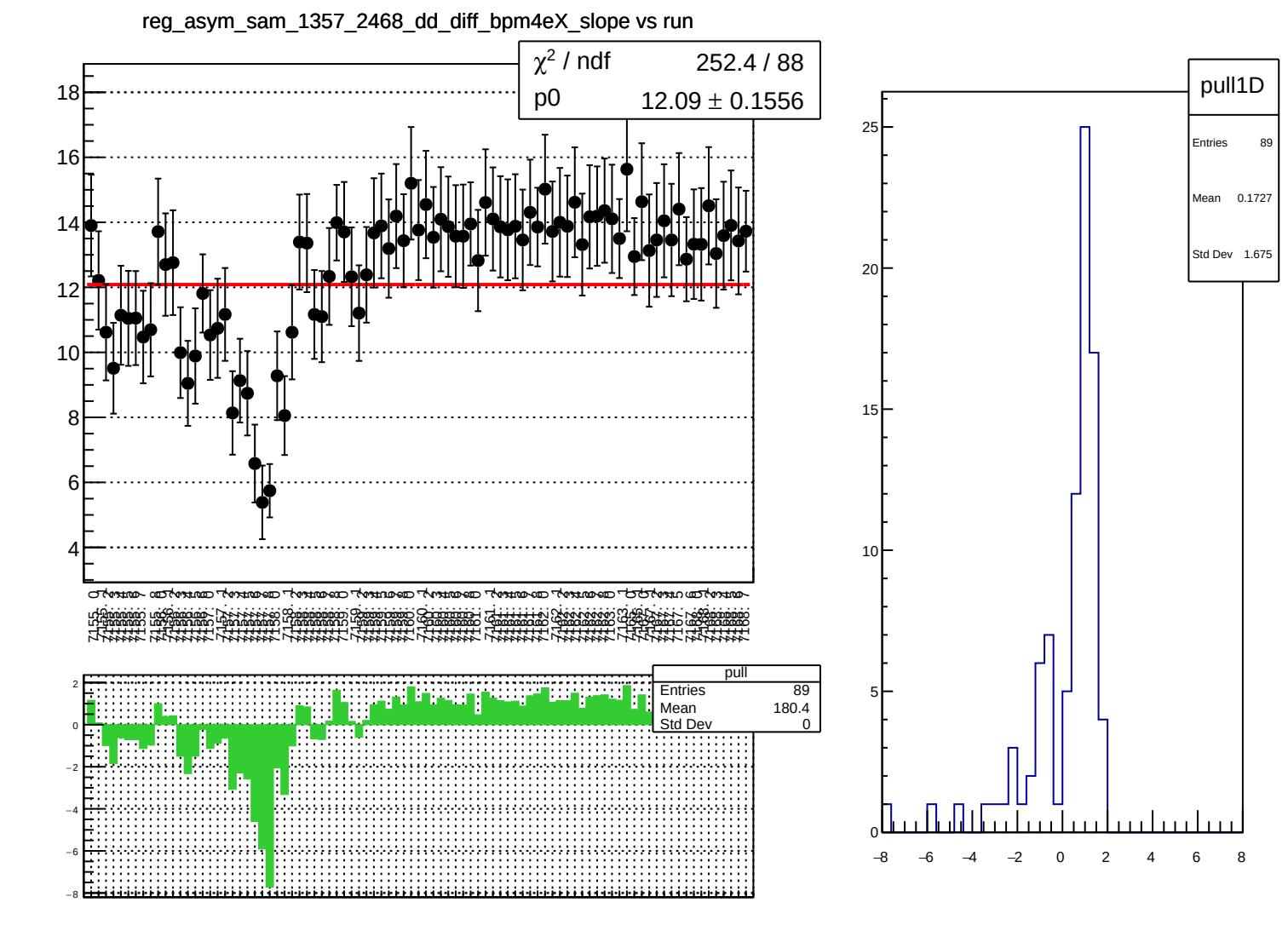

pull1D
Entries 89
Mean −0.2596
Std Dev 1.563

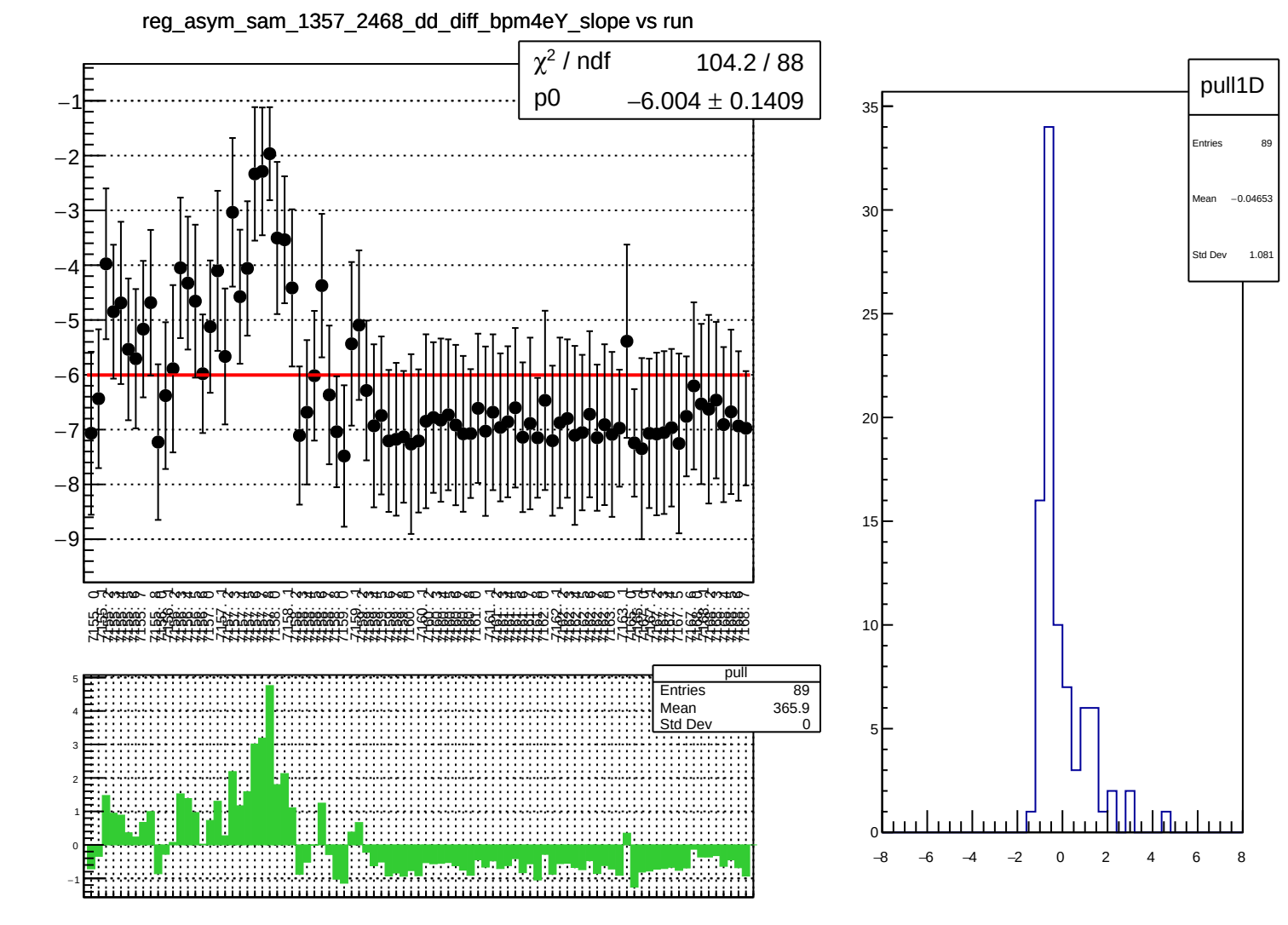

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.8 / 88
p0 34.87 ± 0.574
pull
Entries 89
Mean 439.5
Std Dev 0
pull1D
Entries 89
Mean 0.03958
Std Dev 1.11

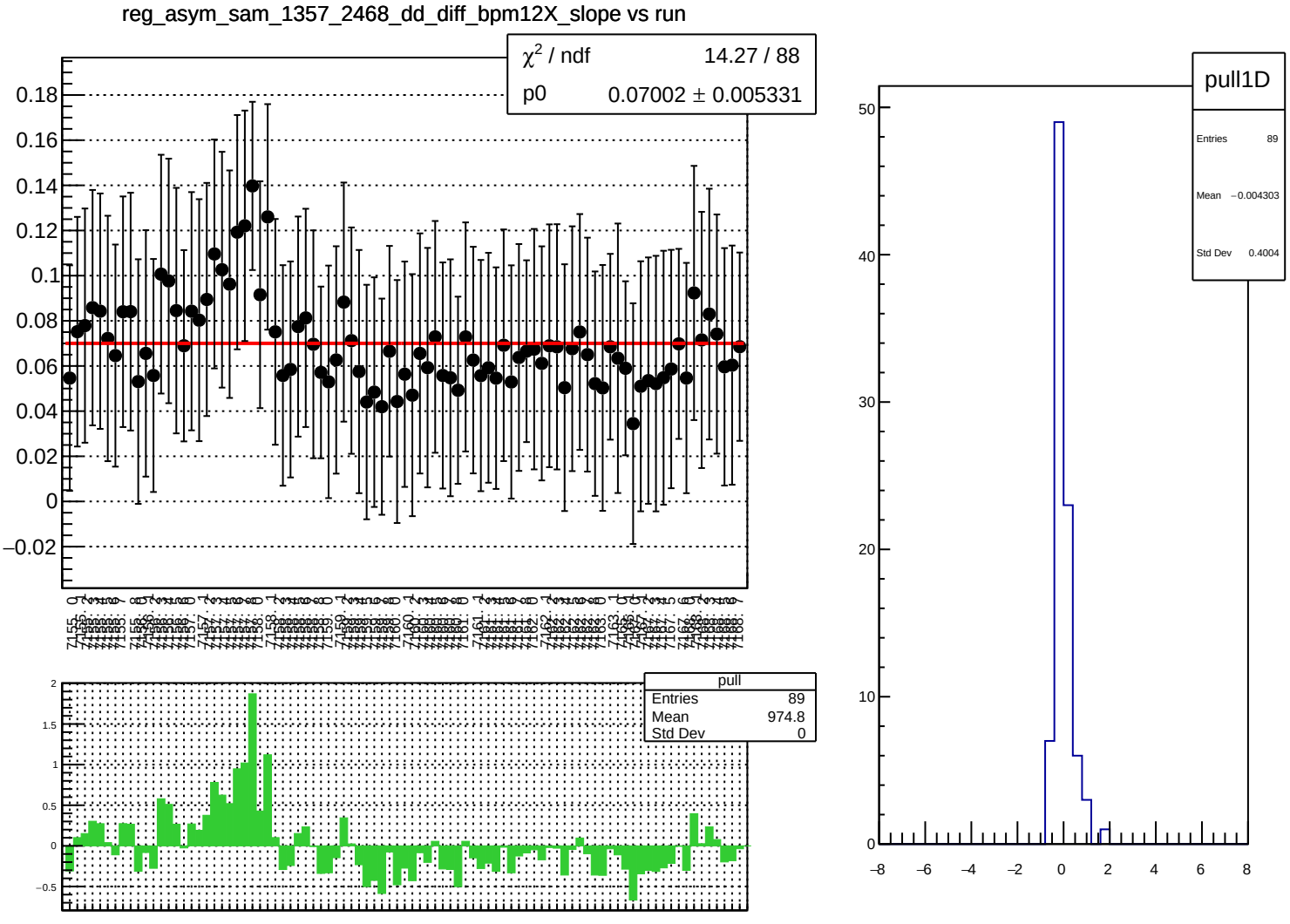

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 15.37 / 88
p0 −0.1362 ± 0.02168
pull
Entries 89
Mean 1866
Std Dev 0
pull1D
Entries 89
Mean 0.002139
Std Dev 0.4155

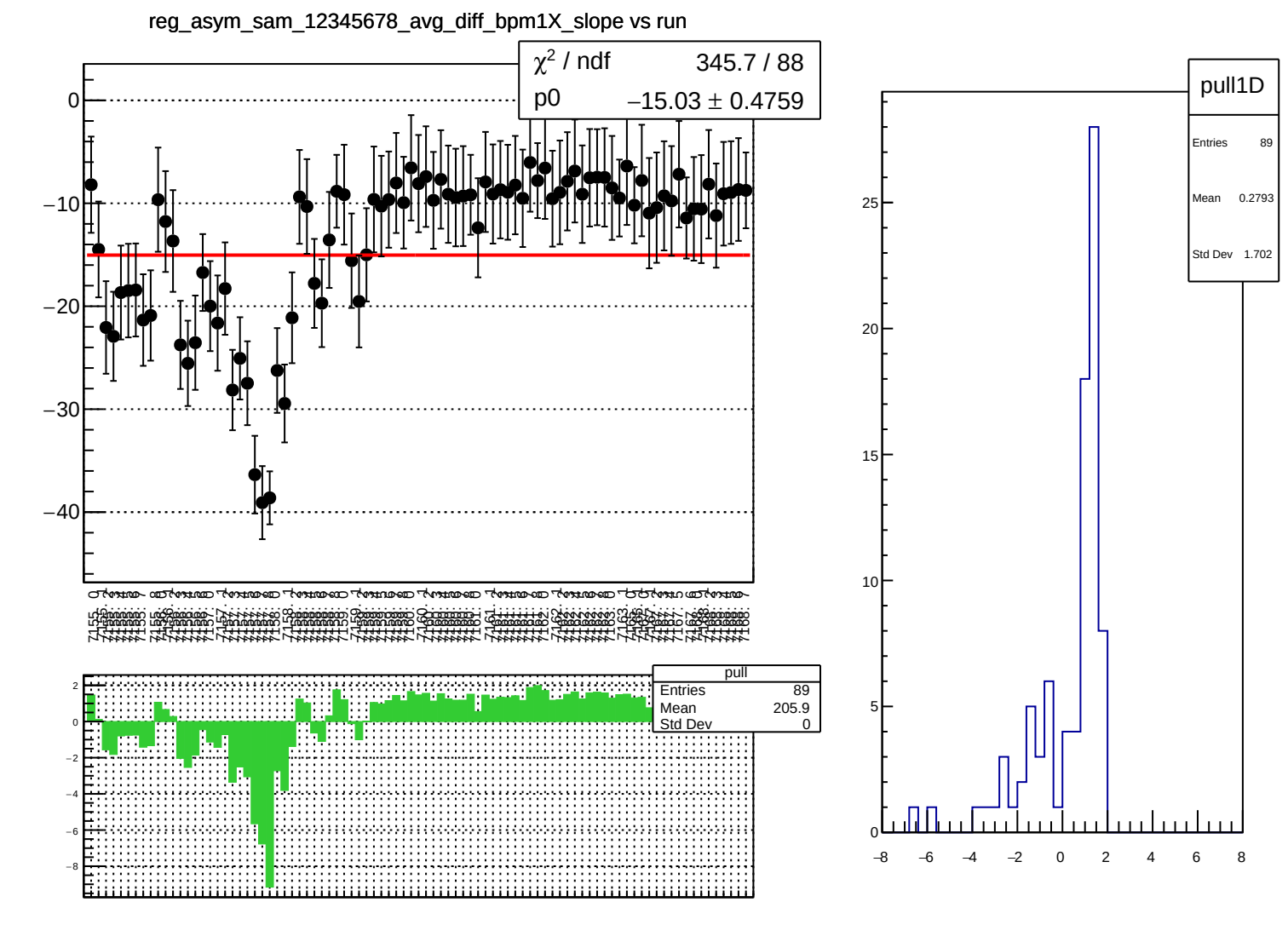

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 295.9 / 88
p0 5.327 ± 0.1535
pull
Entries 89
Mean 179.5
Std Dev 0
pull1D
Entries 89
Mean −0.285
Std Dev 1.563

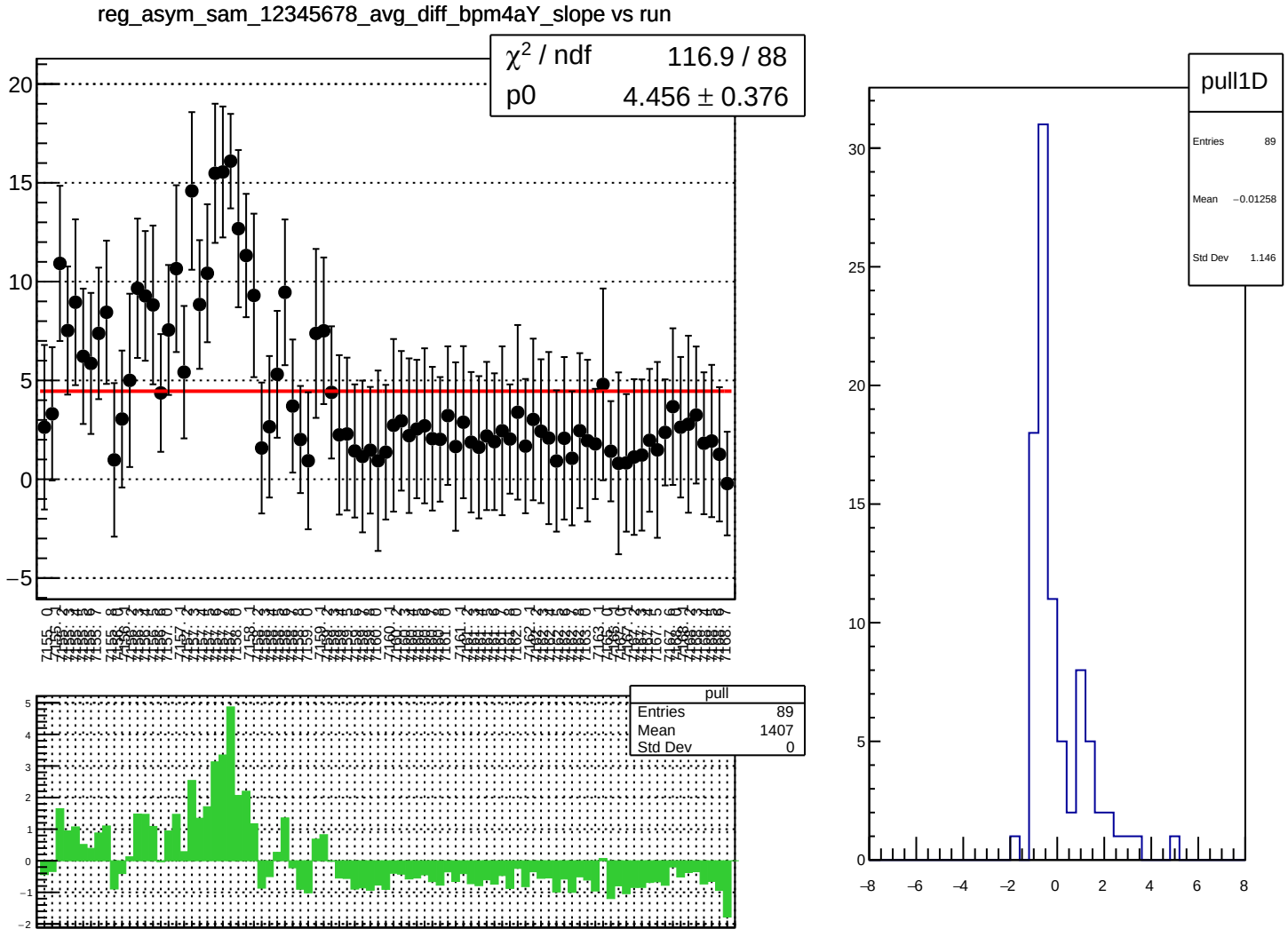

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 105.3 / 88
p0 −0.1087 ± 0.1213
pull
Entries 89
Mean 692.7
Std Dev 0
pull1D
Entries 89
Mean 0.02434
Std Dev 1.088

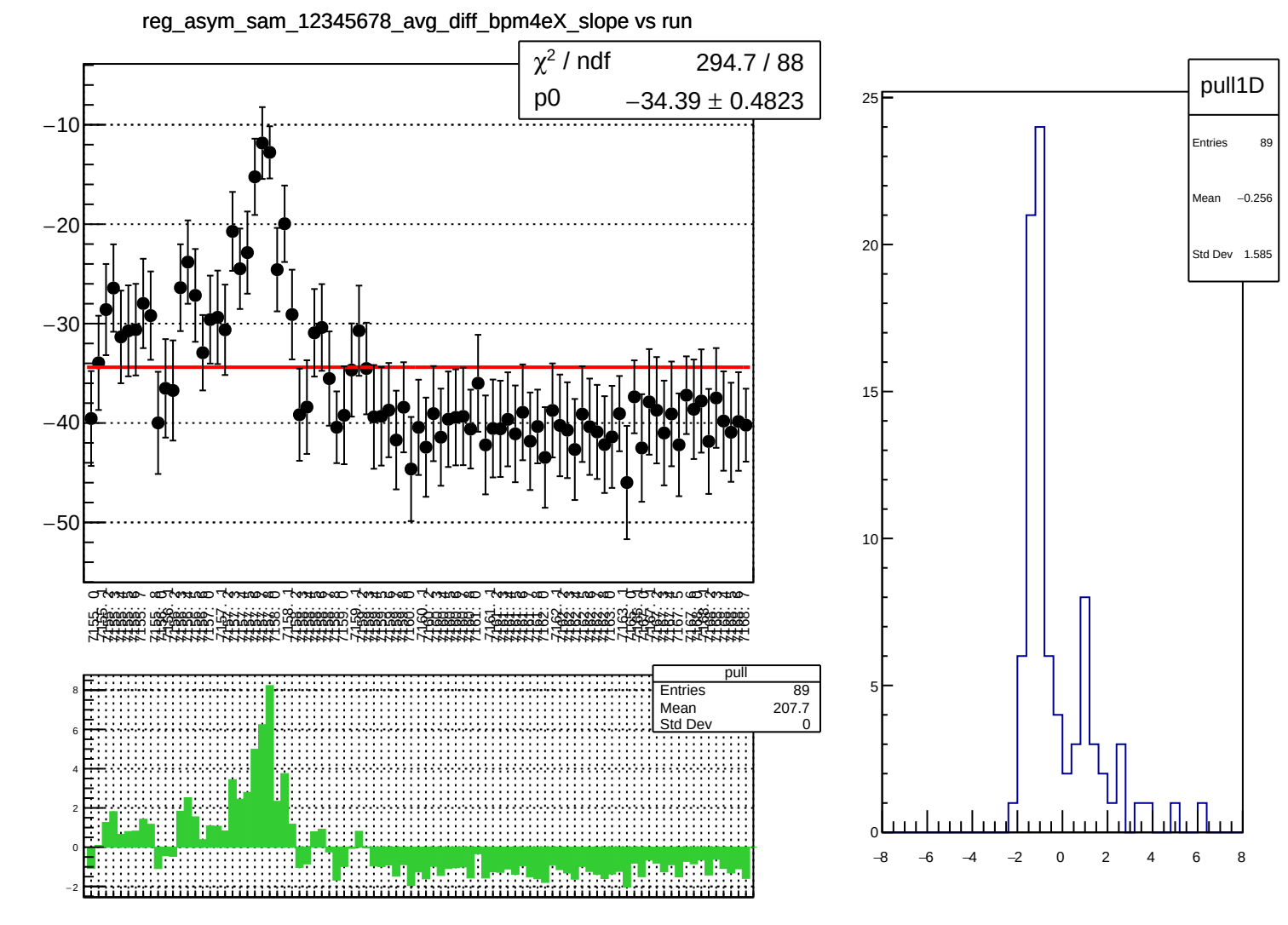

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 252.4 / 88
p0 12.09 ± 0.1556
pull
Entries 89
Mean 180.4
Std Dev 0
pull1D
Entries 89
Mean 0.1727
Std Dev 1.675

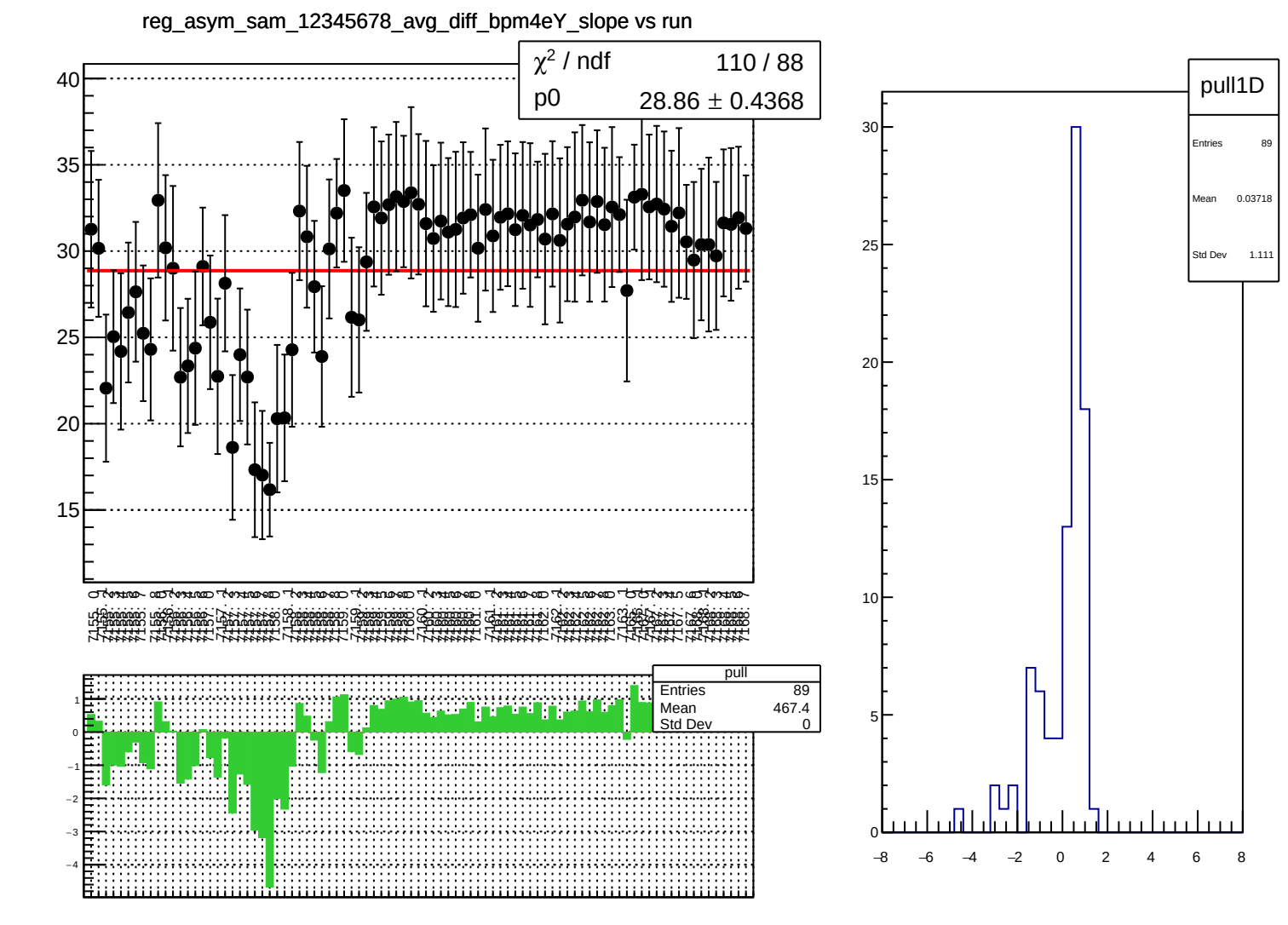

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 104.2 / 88
p0 −6.004 ± 0.1409
pull
Entries 89
Mean 365.9
Std Dev 0
pull1D
Entries 89
Mean −0.04653
Std Dev 1.081

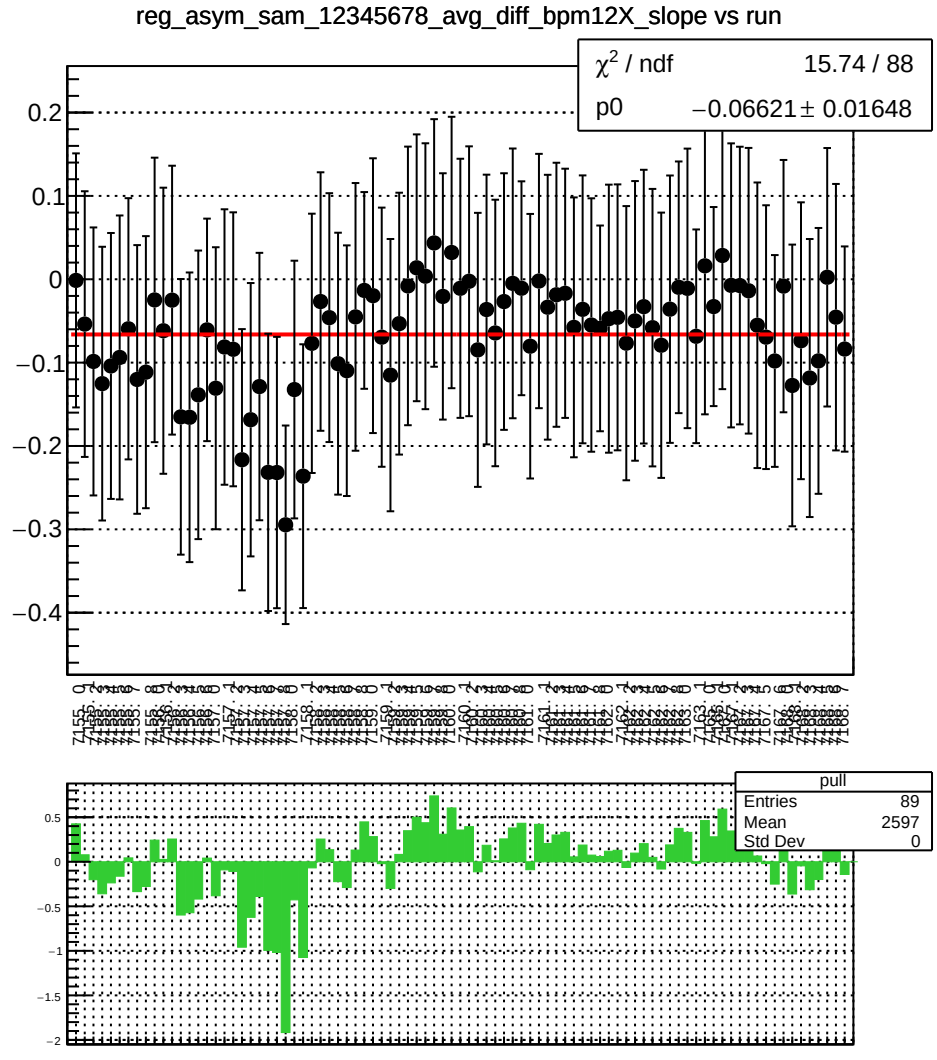

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 14.27 / 88
p0 0.07002 ± 0.005331
pull
Entries 89
Mean 974.8
Std Dev 0
pull1D
Entries 89
Mean −0.004303
Std Dev 0.4004

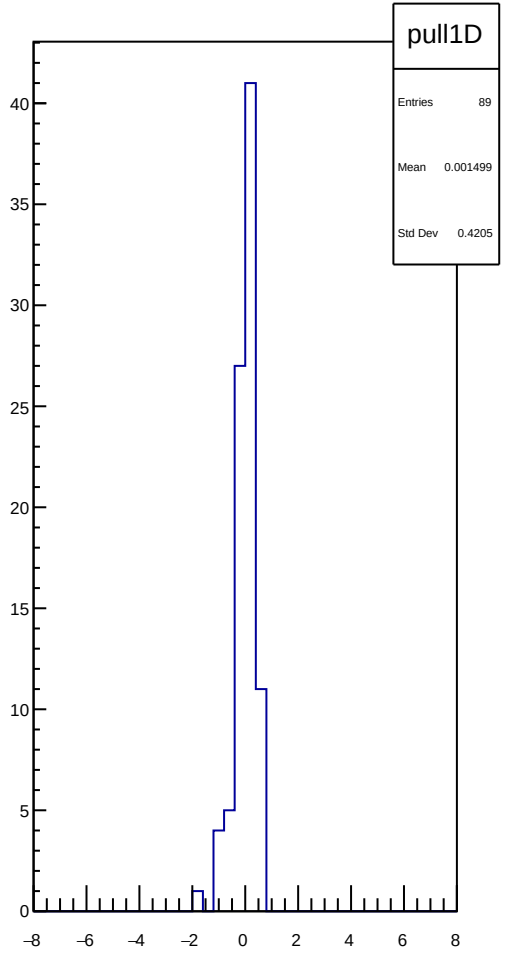

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 345.7 / 88
p0 −15.03 ± 0.4759
pull
Entries 89
Mean 205.9
Std Dev 0
pull1D
Entries 89
Mean 0.2793
Std Dev 1.702

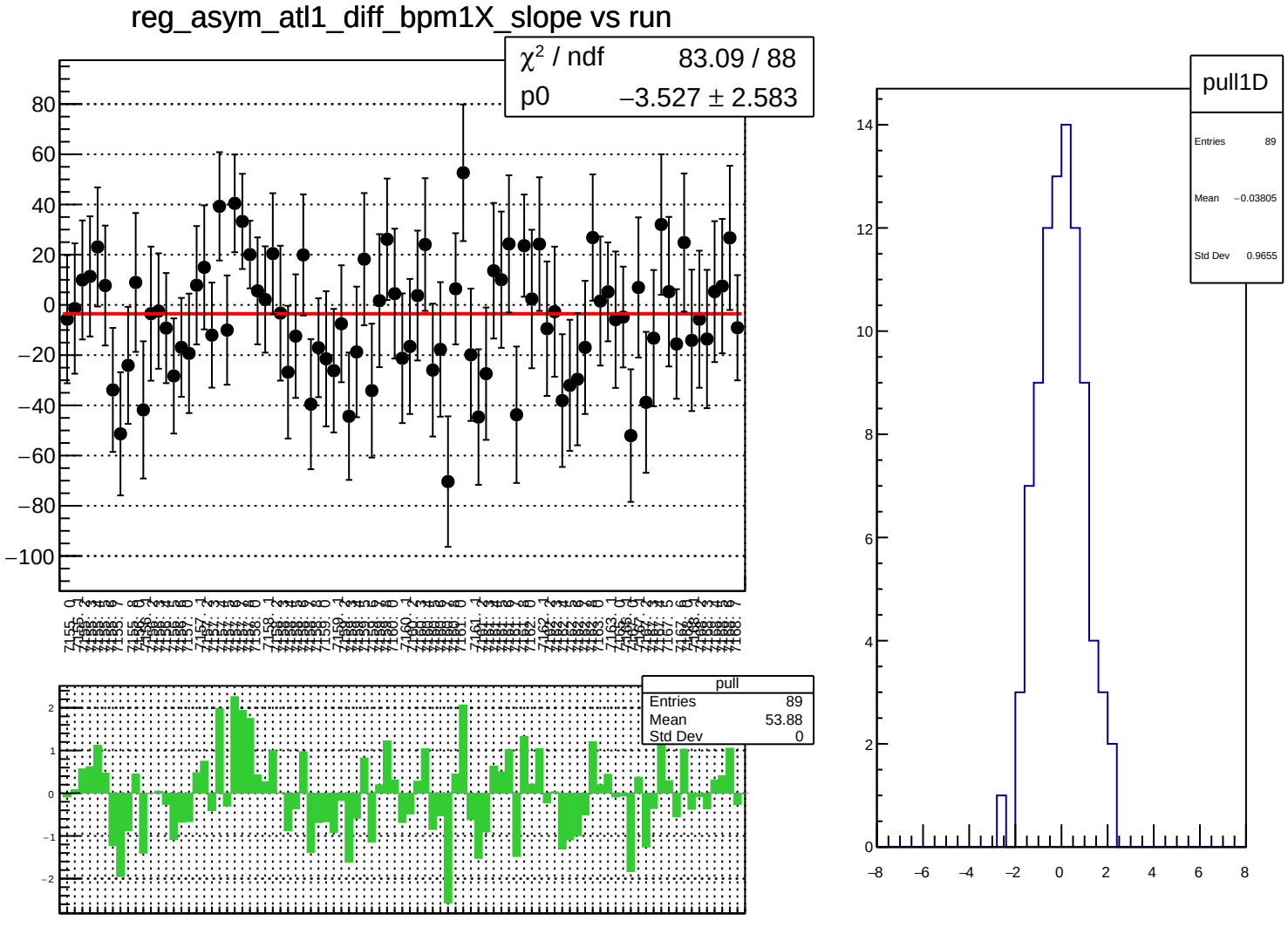

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.9 / 88
p0 4.456 ± 0.376
pull
Entries 89
Mean 1407
Std Dev 0
pull1D
Entries 89
Mean −0.01258
Std Dev 1.146

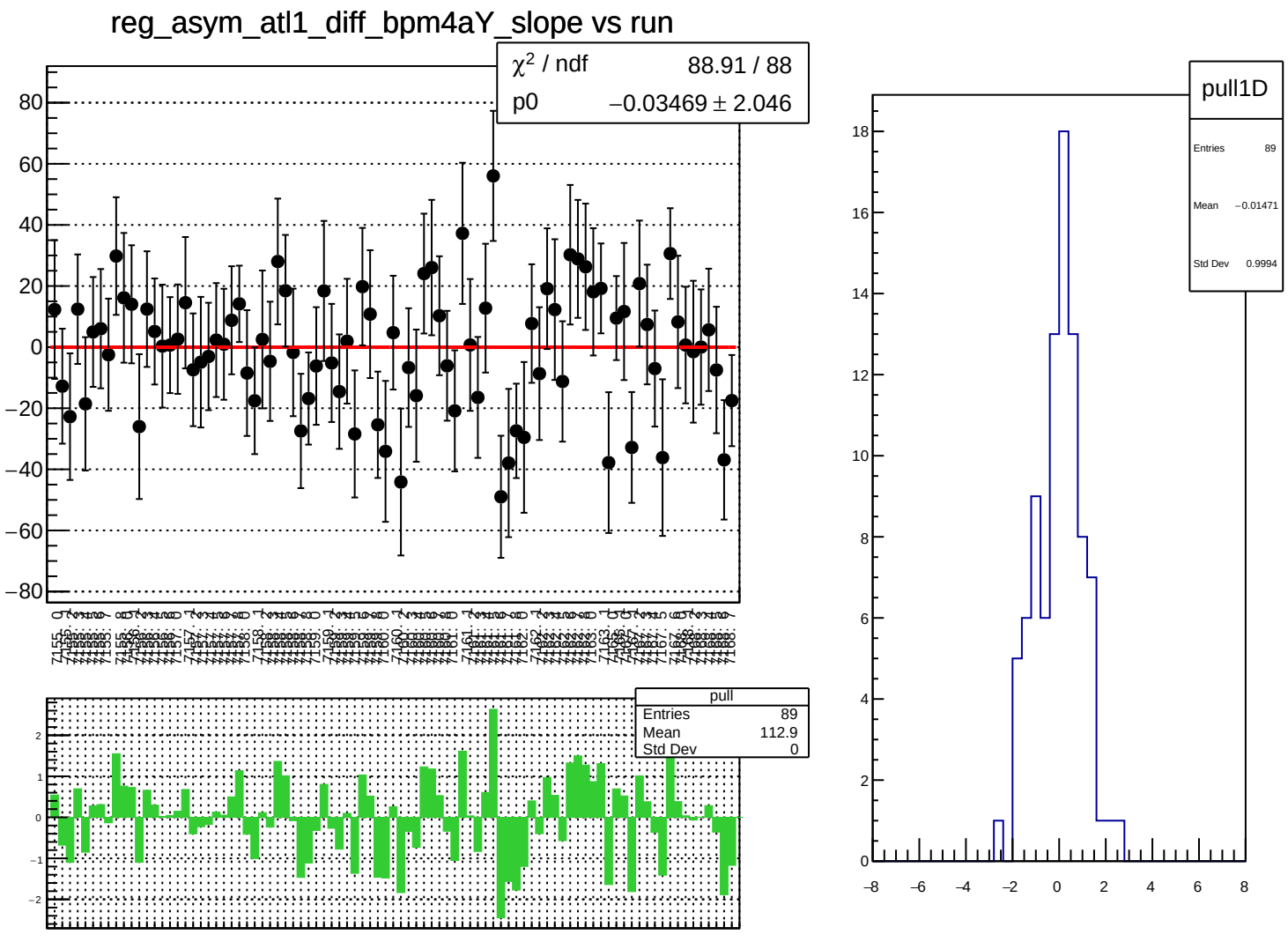

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 294.7 / 88
p0 −34.39 ± 0.4823
pull
Entries 89
Mean 207.7
Std Dev 0
pull1D
Entries 89
Mean −0.256
Std Dev 1.585

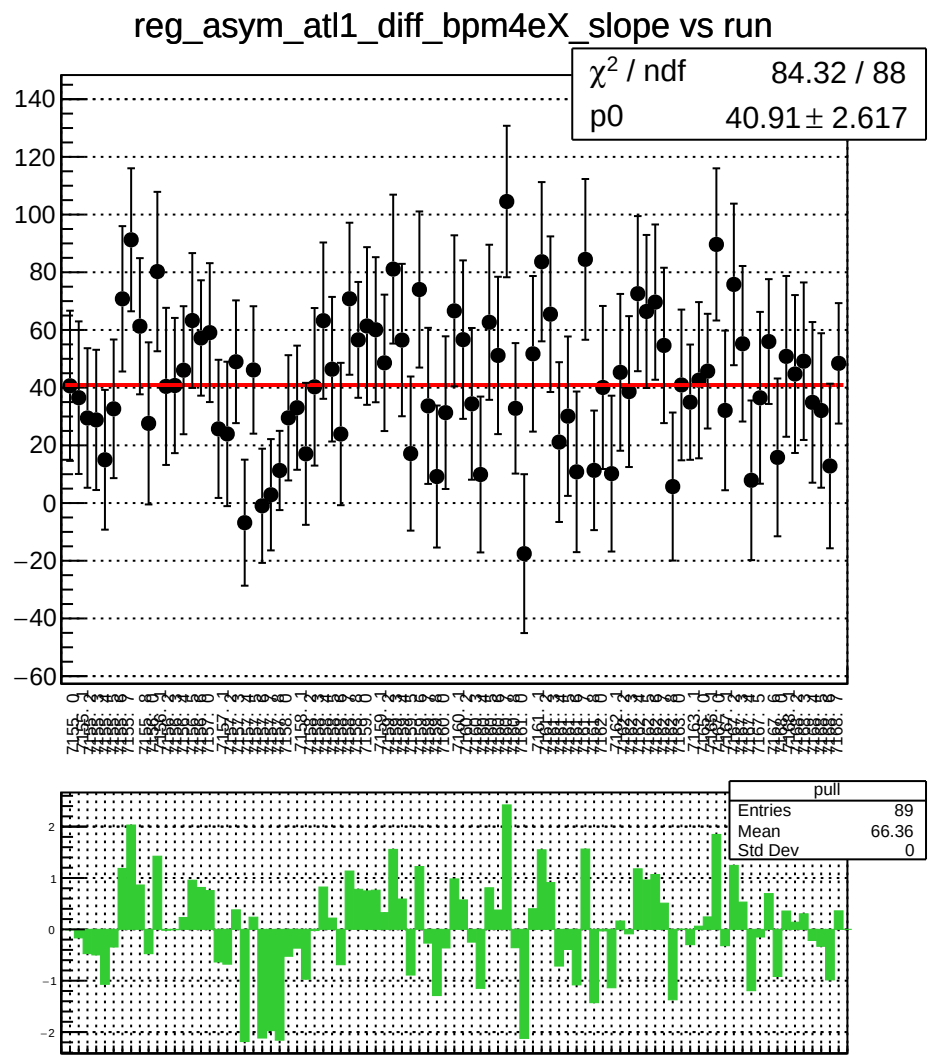

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 110 / 88
p0 28.86 ± 0.4368
pull
Entries 89
Mean 467.4
Std Dev 0
pull1D
Entries 89
Mean 0.03718
Std Dev 1.111

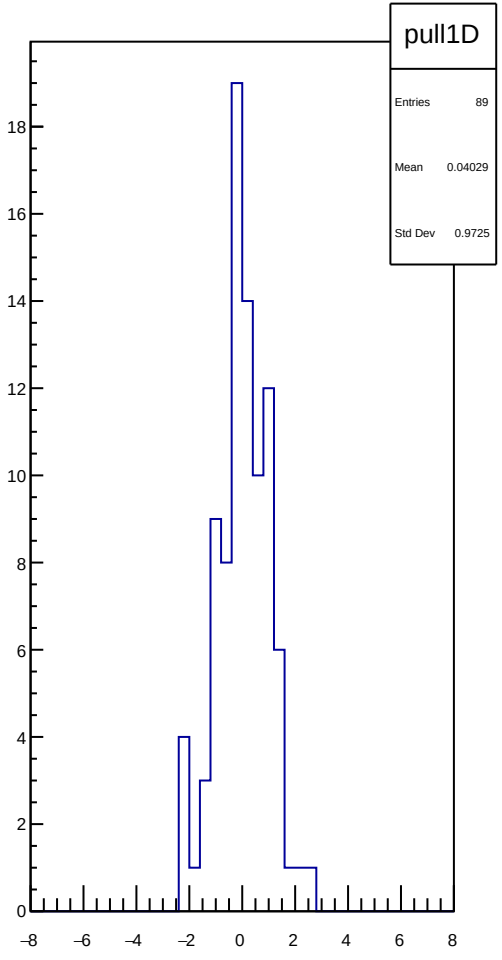

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 15.74 / 88
p0 −0.06621 ± 0.01648
pull
Entries 89
Mean 2597
Std Dev 0

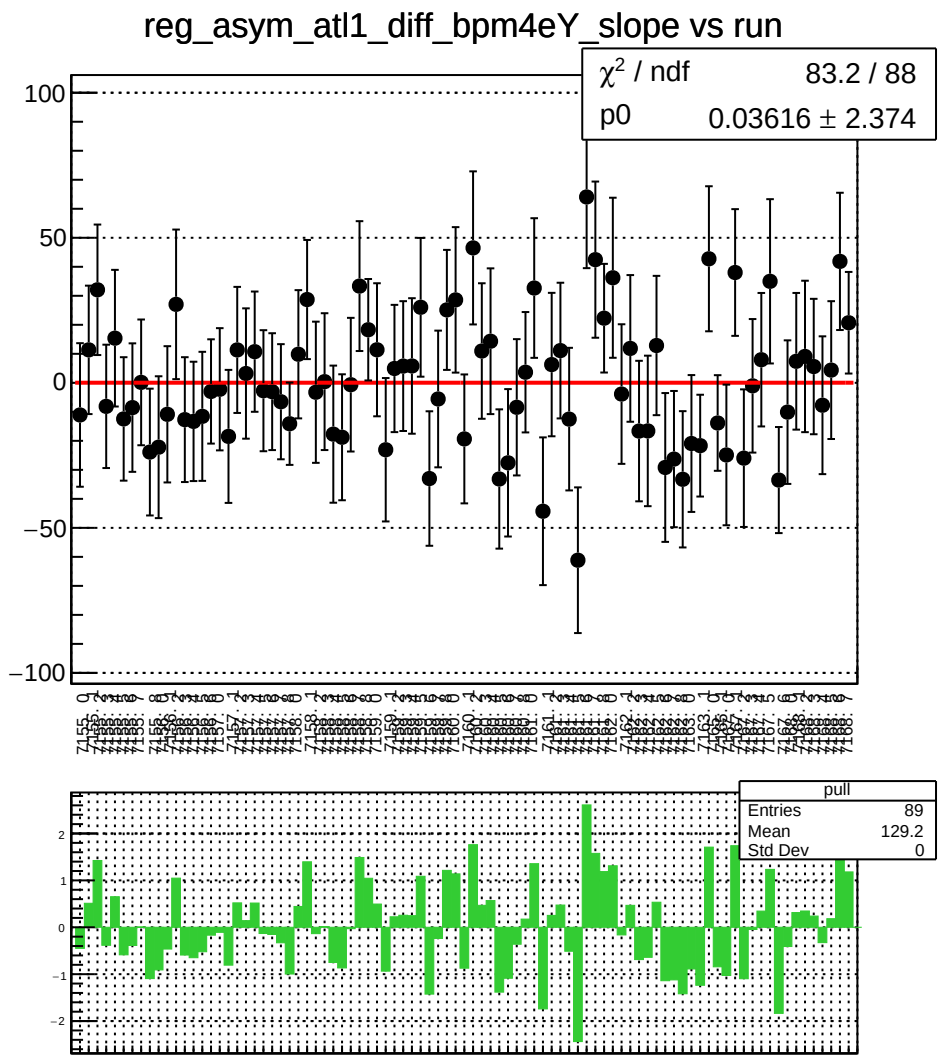

pull1D
Entries 89
Mean 0.001499
Std Dev 0.4205

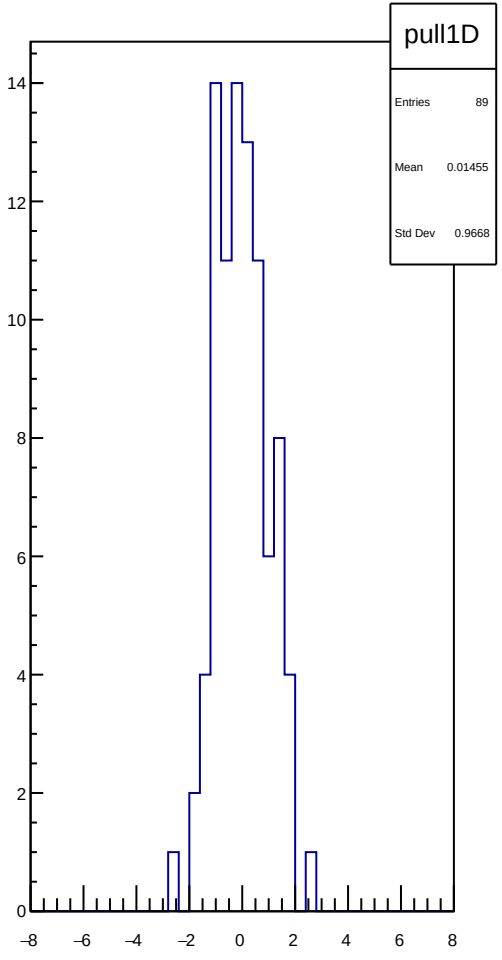

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 83.09 / 88
p0 −3.527 ± 2.583
pull
Entries 89
Mean 53.88
Std Dev 0
pull1D
Entries 89
Mean −0.03805
Std Dev 0.9655

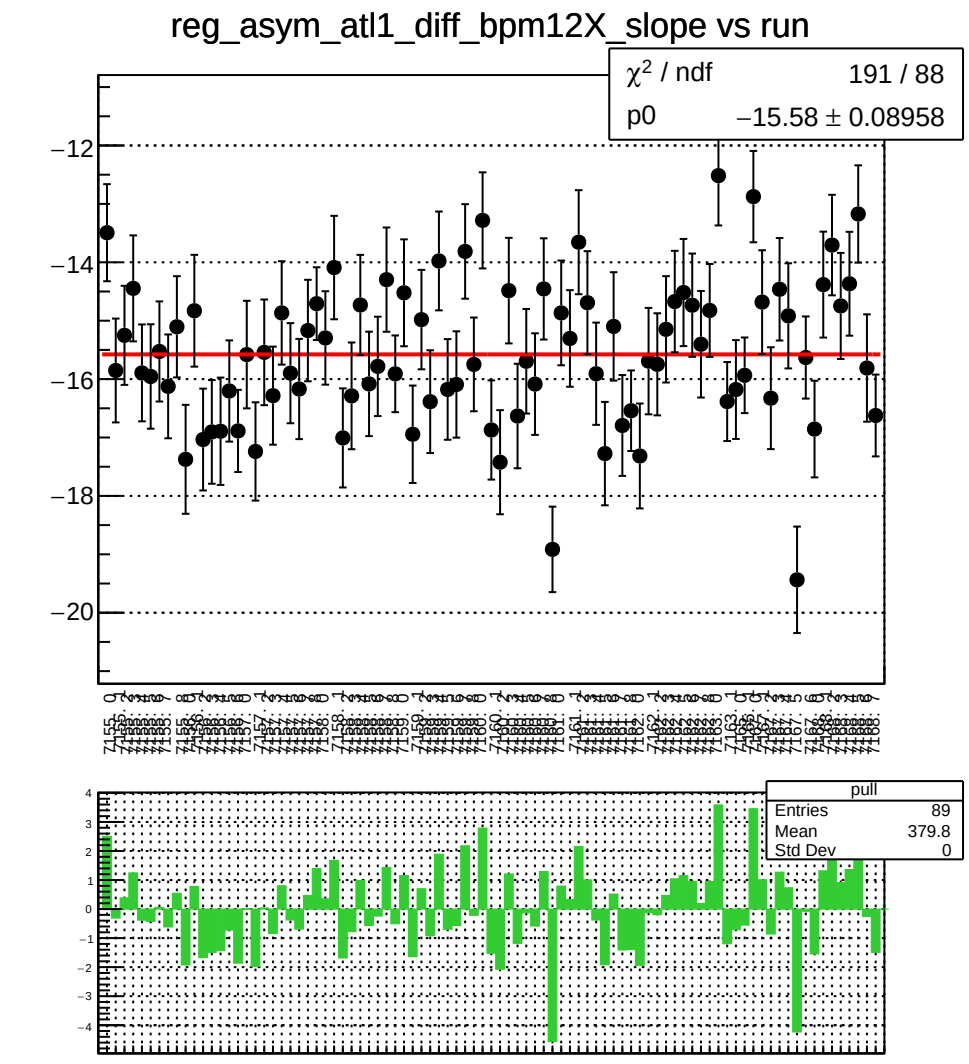

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 88.91 / 88
p0 −0.03469 ± 2.046
pull
Entries 89
Mean 112.9
Std Dev 0
pull1D
Entries 89
Mean −0.01471
Std Dev 0.9994

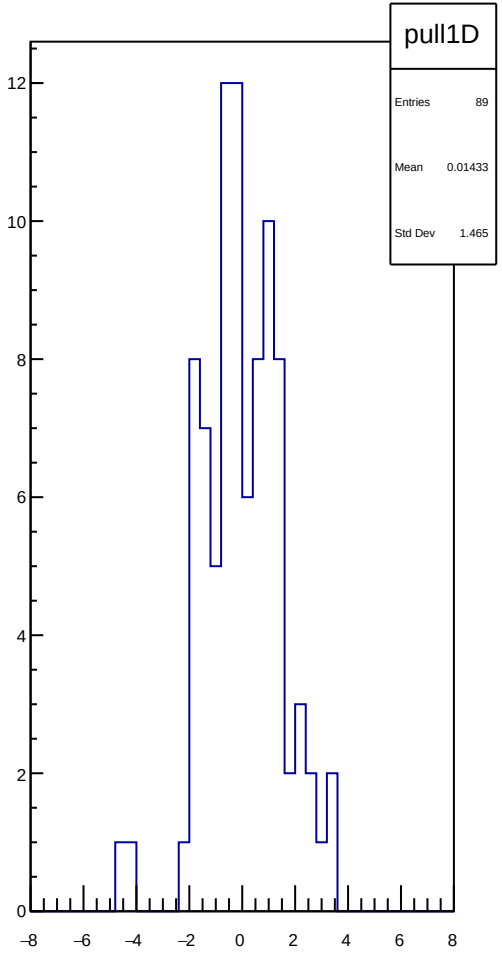

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 84.32 / 88
p0 40.91 ± 2.617
pull
Entries 89
Mean 66.36
Std Dev 0

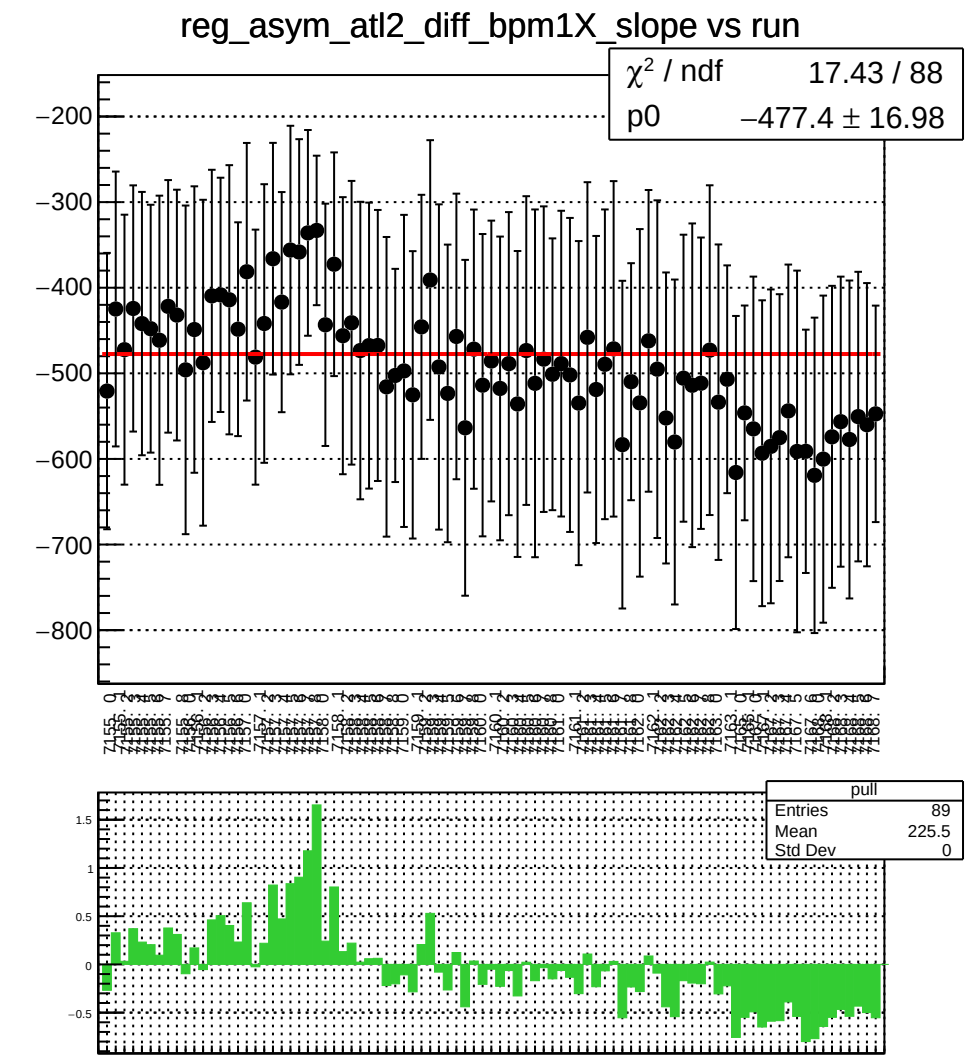

pull1D
Entries 89
Mean 0.04029
Std Dev 0.9725

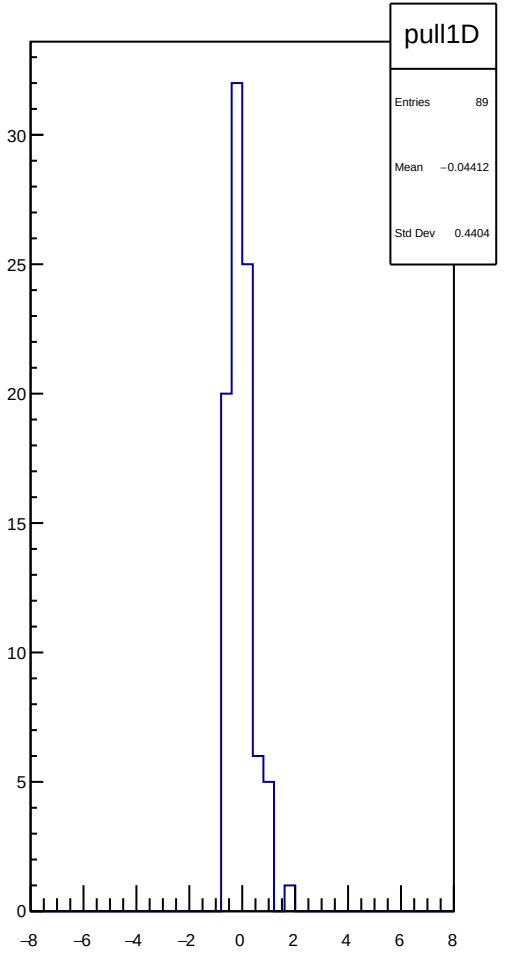

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 83.2 / 88
p0 0.03616 ± 2.374
pull
Entries 89
Mean 129.2
Std Dev 0

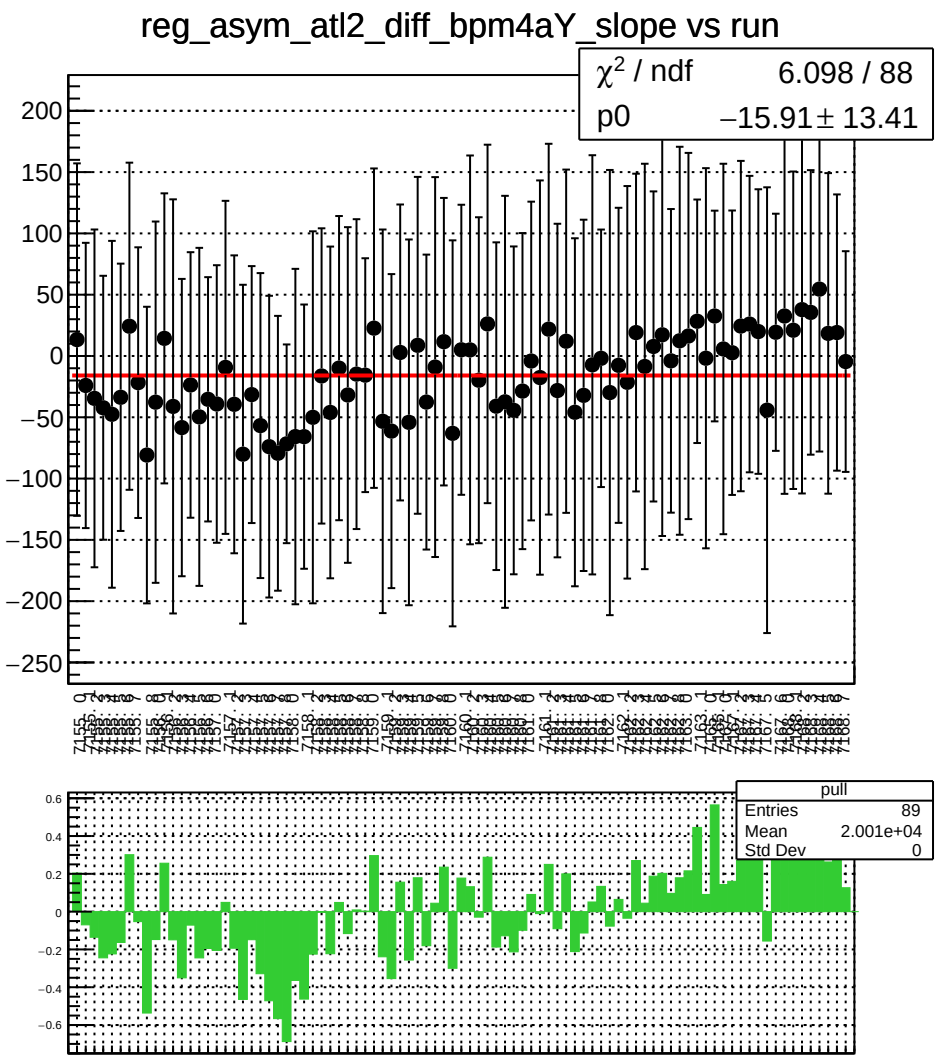

pull1D
Entries 89
Mean 0.01455
Std Dev 0.9668

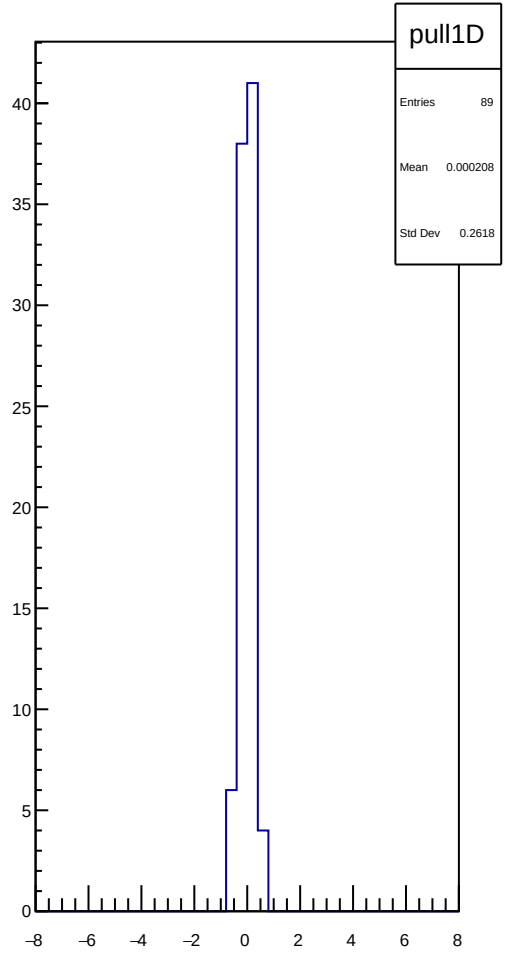

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 191 / 88
p0 −15.58 ± 0.08958
pull
Entries 89
Mean 379.8
Std Dev 0

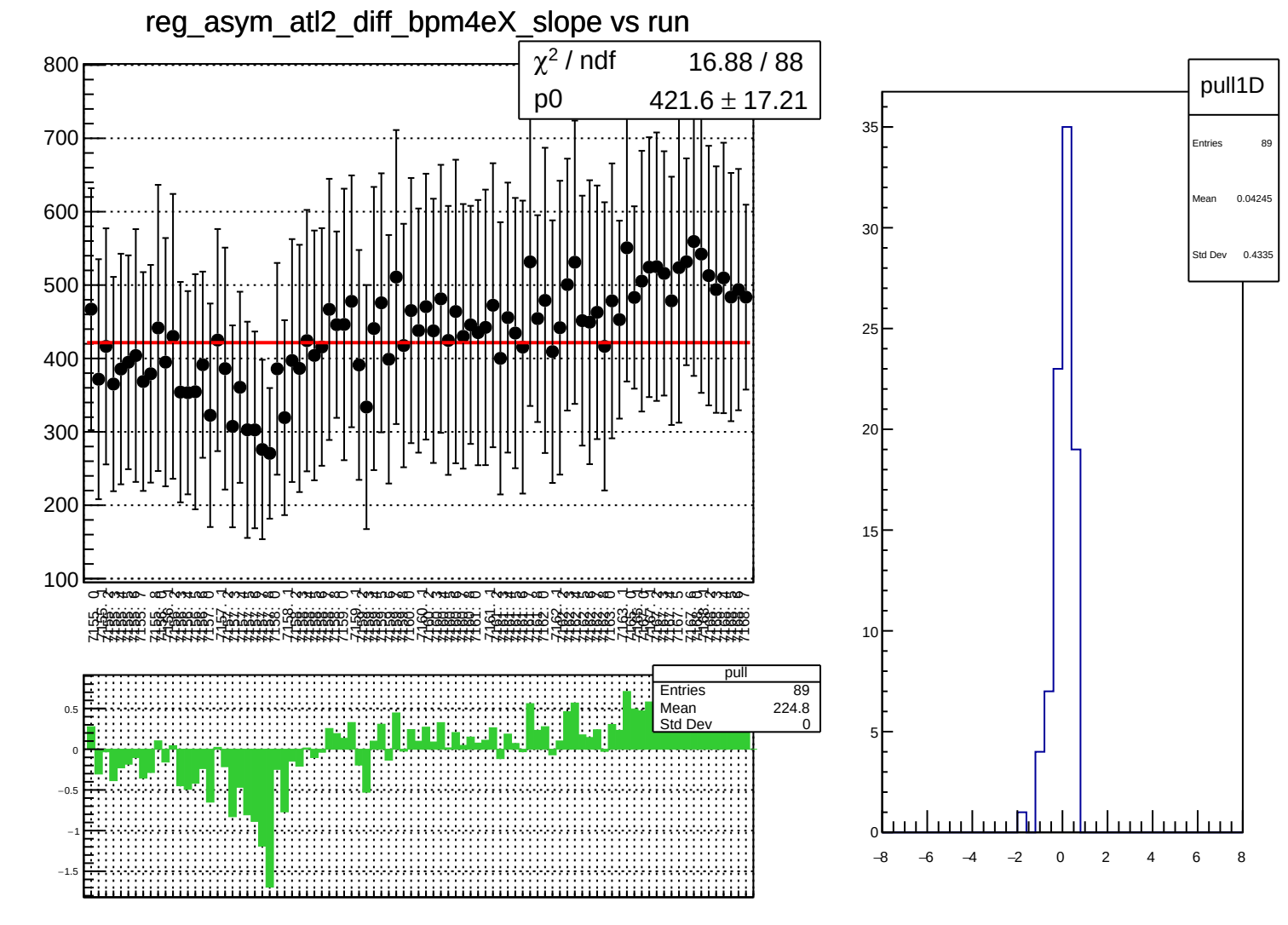

pull1D
Entries 89
Mean 0.01433
Std Dev 1.465

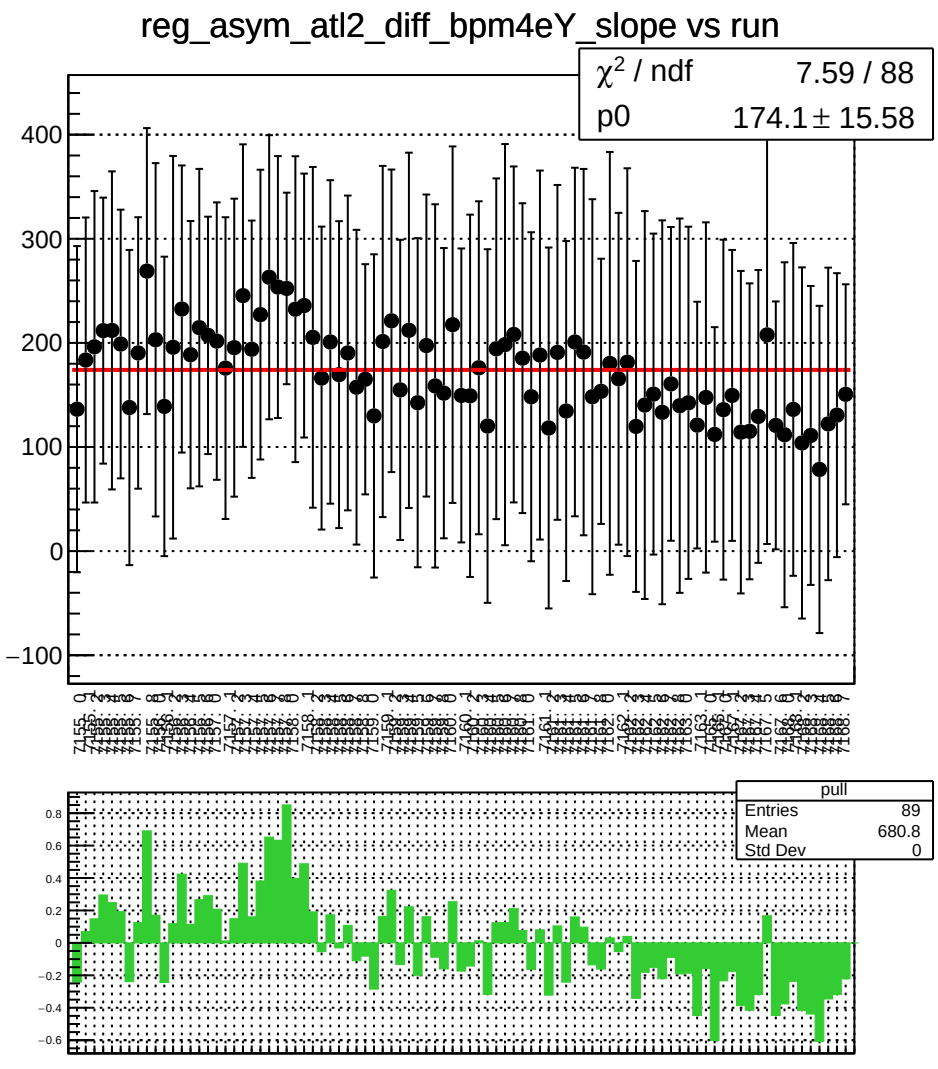

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 17.43 / 88
p0 −477.4 ± 16.98
−200
−300
−400
−500
−600
−700
−800
pull
Entries 89
Mean 225.5
Std Dev 0
1.5
1
0.5
0
−0.5

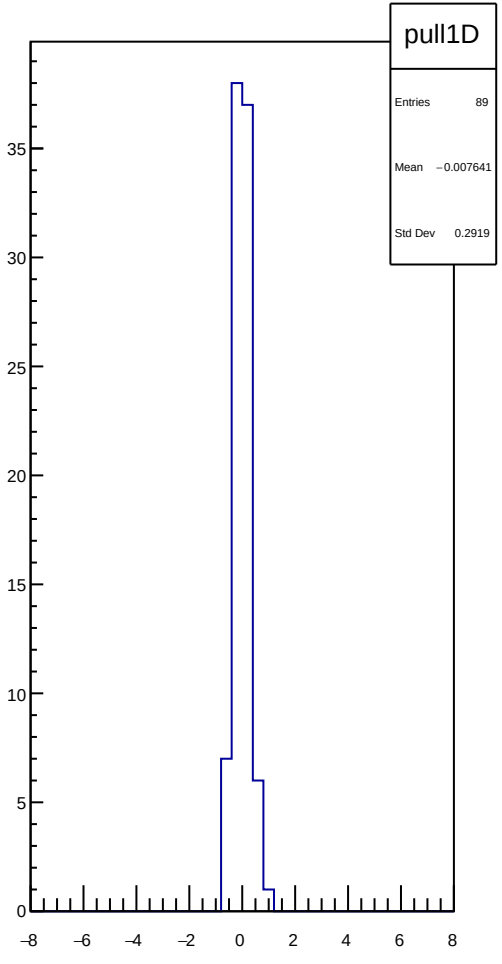

pull1D
Entries 89
Mean −0.04412
Std Dev 0.4404
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

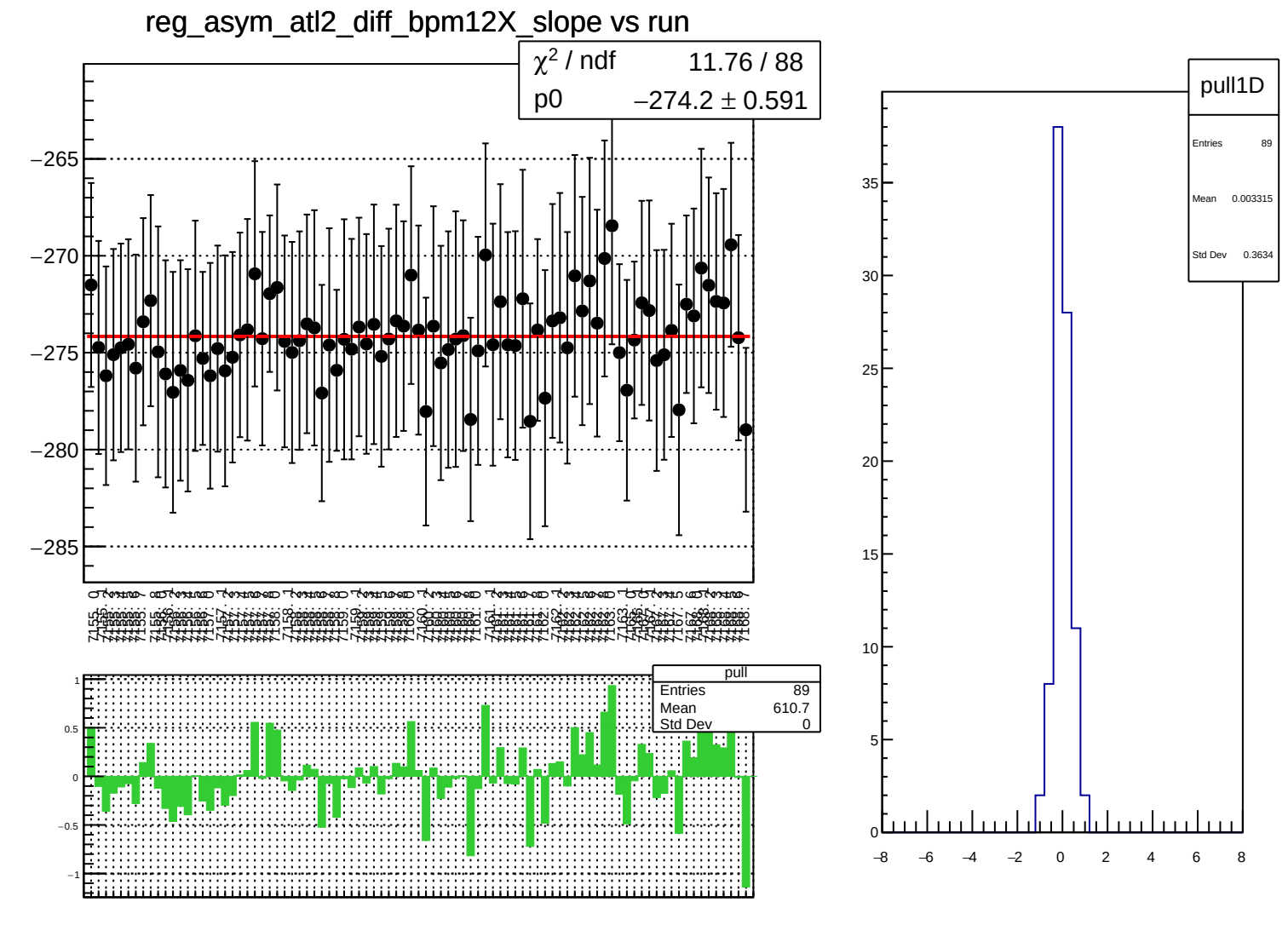

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.098 / 88
p0 −15.91 ± 13.41
pull
Entries 89
Mean 2.001e+04
Std Dev 0

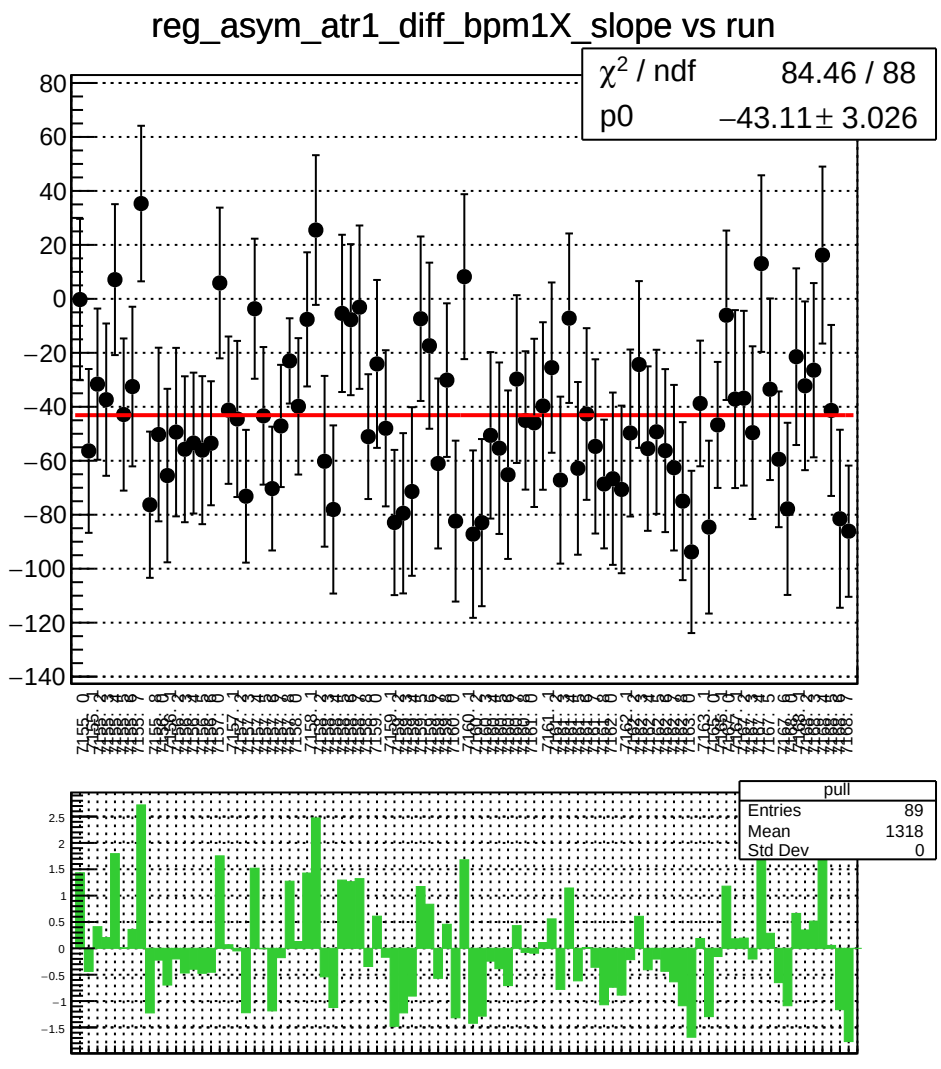

pull1D
Entries 89
Mean 0.000208
Std Dev 0.2618

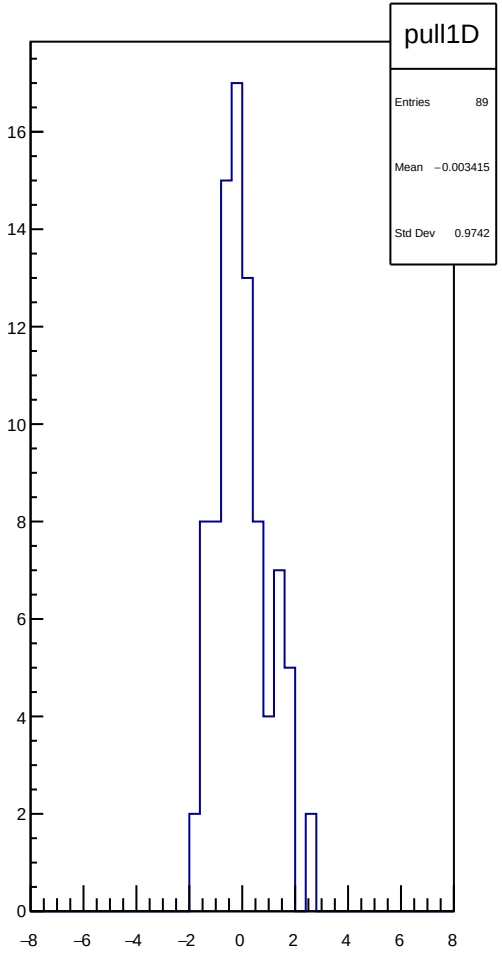

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 16.88 / 88
p0 421.6 ± 17.21
pull
Entries 89
Mean 224.8
Std Dev 0
pull1D
Entries 89
Mean 0.04245
Std Dev 0.4335

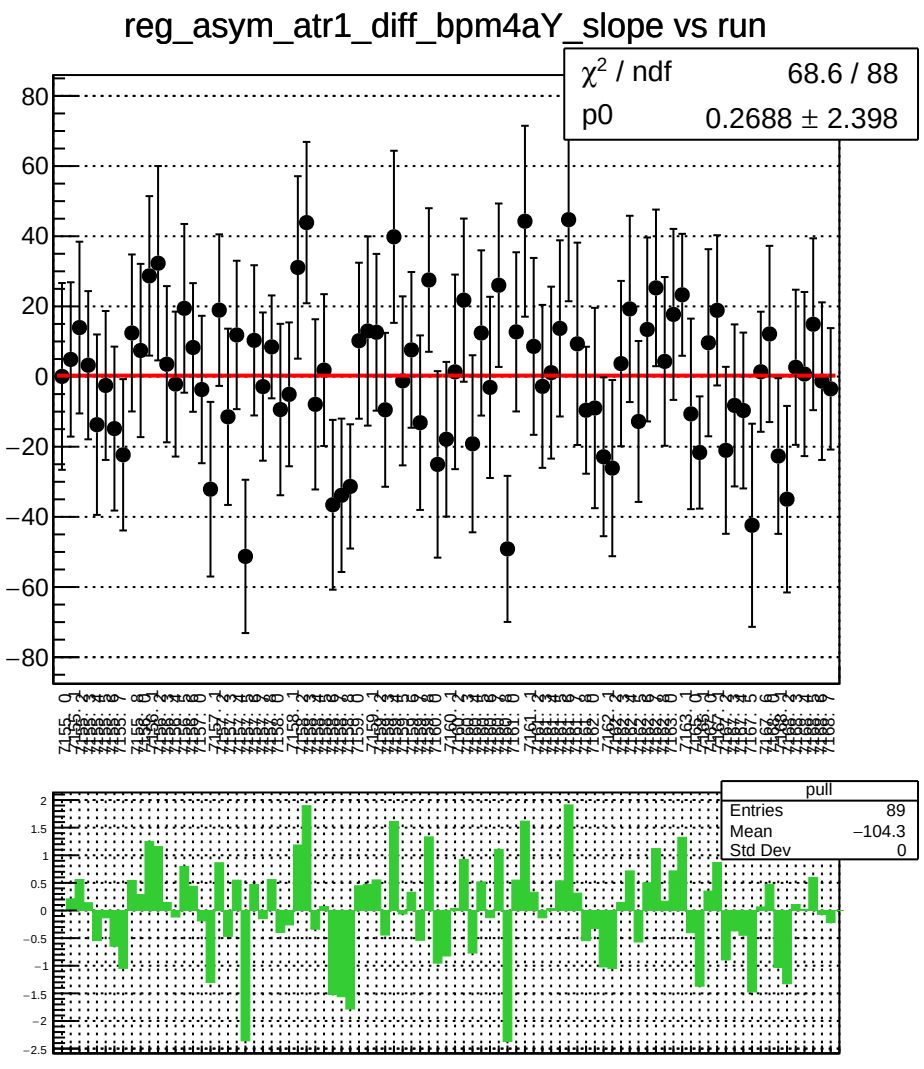

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 7.59 / 88
p0 174.1 ± 15.58
pull
Entries 89
Mean 680.8
Std Dev 0

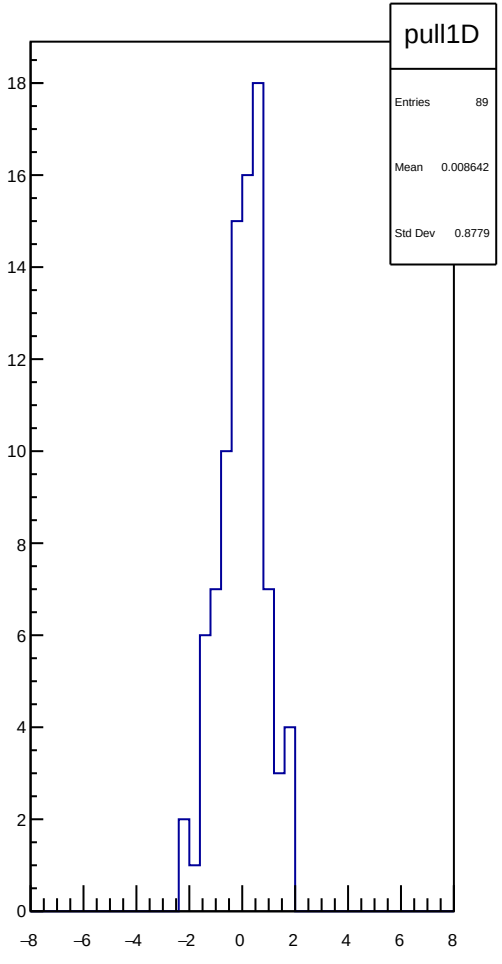

pull1D
Entries 89
Mean −0.007641
Std Dev 0.2919

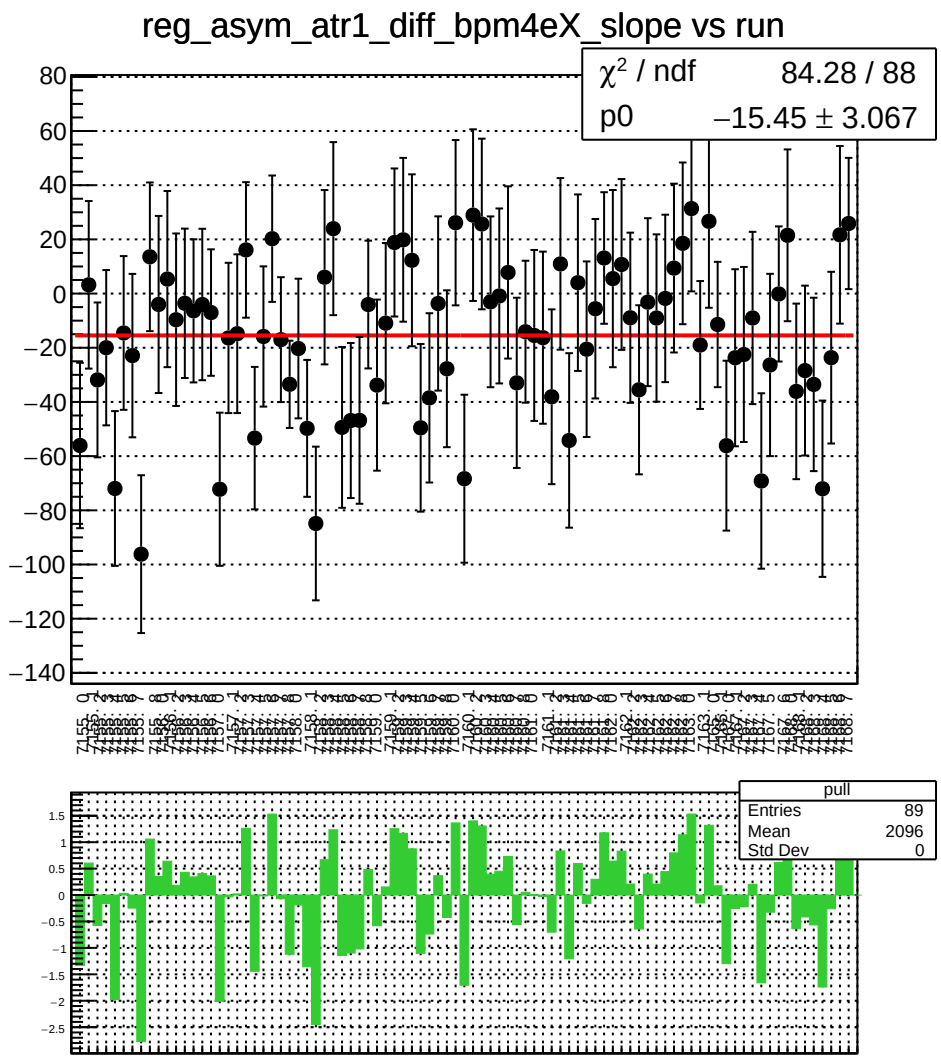

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 11.76 / 88
p0 −274.2 ± 0.591
−265
−270
−275
−280
−285
pull
Entries 89
Mean 610.7
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.003315
Std Dev 0.3634
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

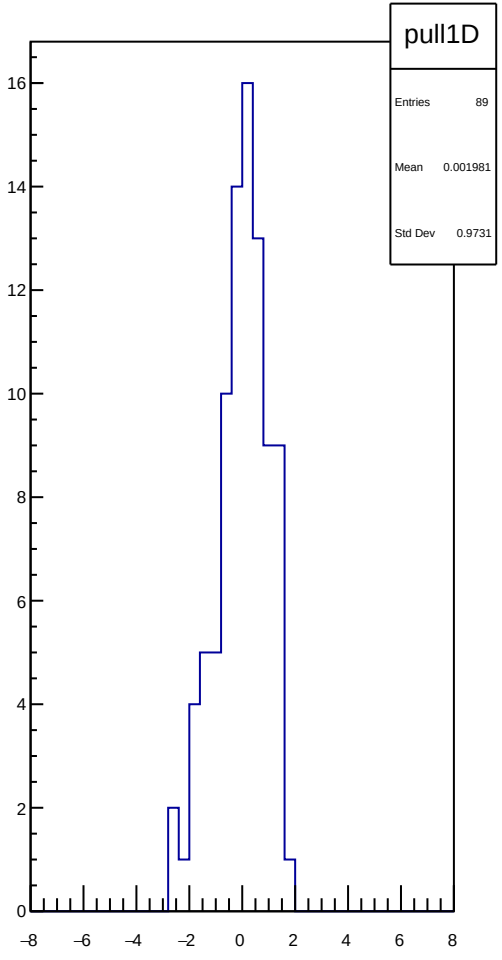

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 84.46 / 88
p0 −43.11 ± 3.026
pull
Entries 89
Mean 1318
Std Dev 0

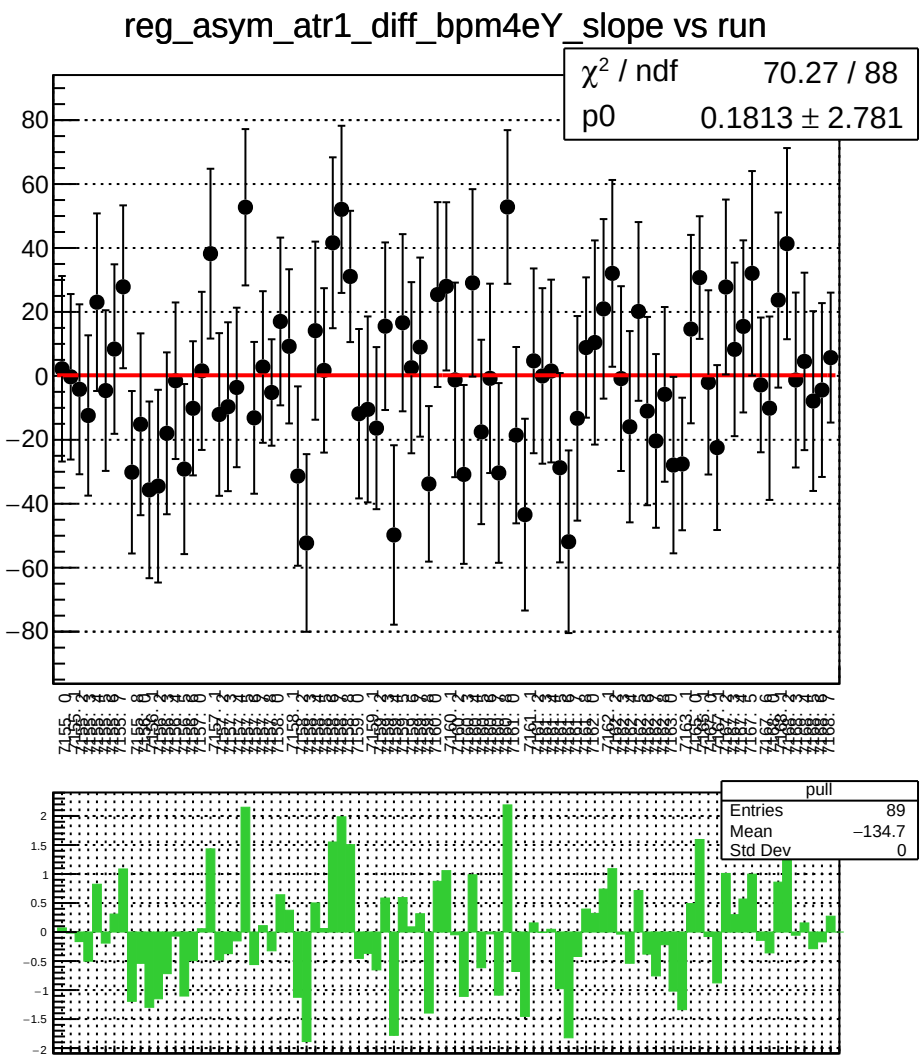

pull1D
Entries 89
Mean −0.003415
Std Dev 0.9742

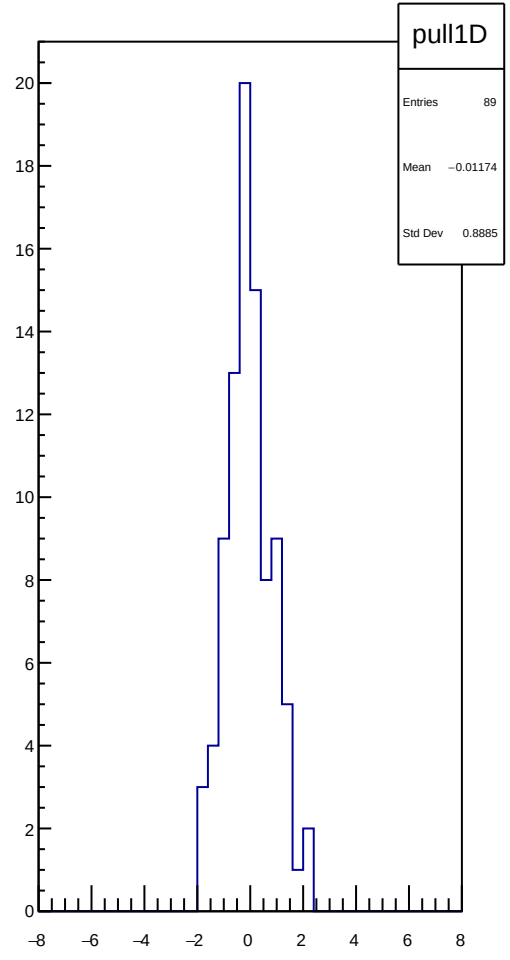

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 68.6 / 88
p0 0.2688 ± 2.398
pull
Entries 89
Mean −104.3
Std Dev 0

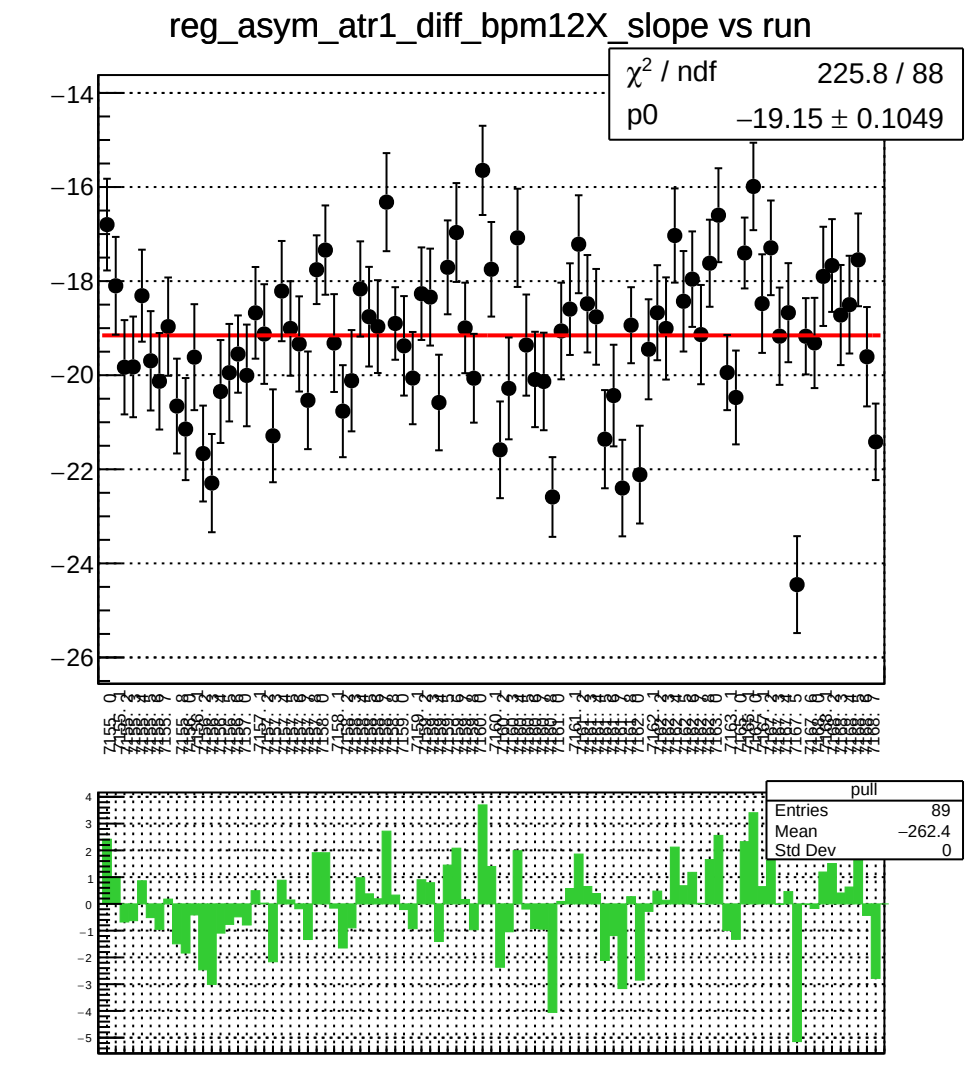

pull1D
Entries 89
Mean 0.008642
Std Dev 0.8779

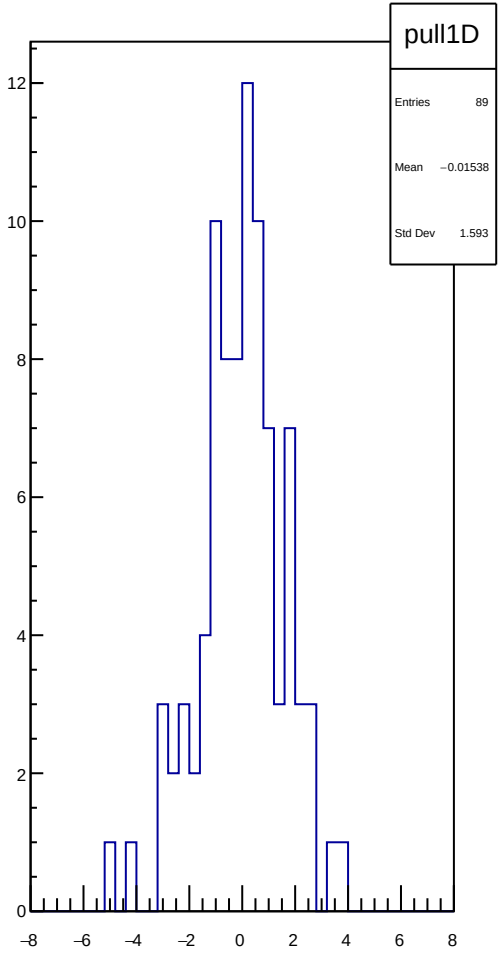

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 84.28 / 88
p0 −15.45 ± 3.067
pull
Entries 89
Mean 2096
Std Dev 0

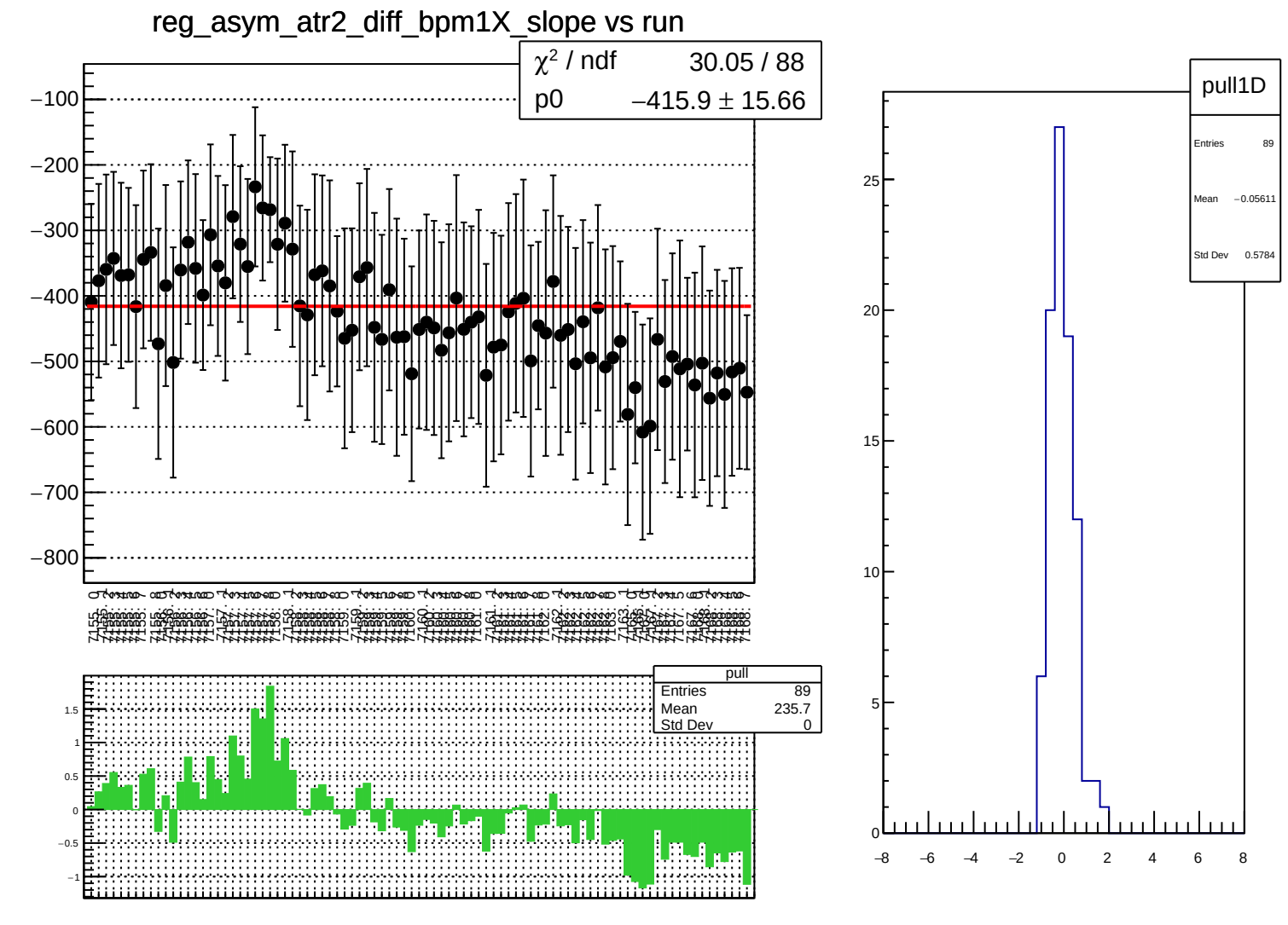

pull1D
Entries 89
Mean 0.001981
Std Dev 0.9731

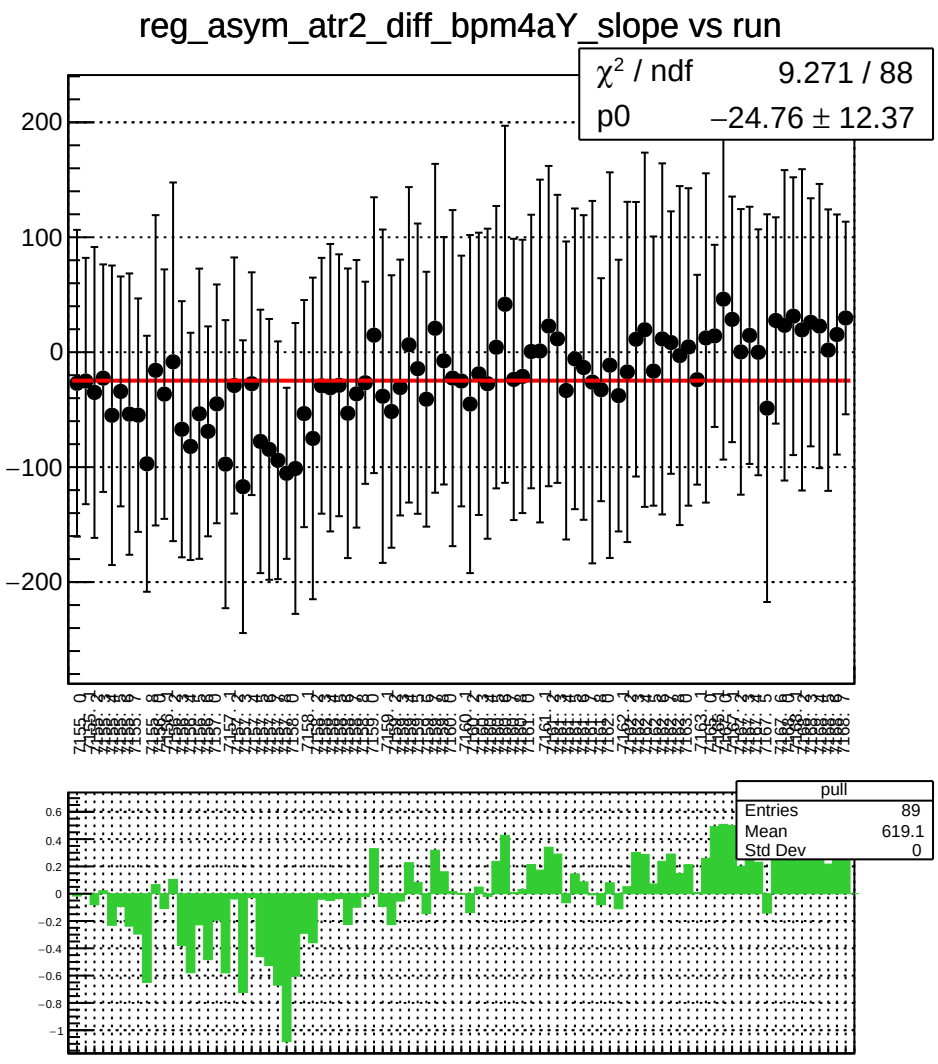

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 70.27 / 88
p0 0.1813 ± 2.781
pull
Entries 89
Mean −134.7
Std Dev 0

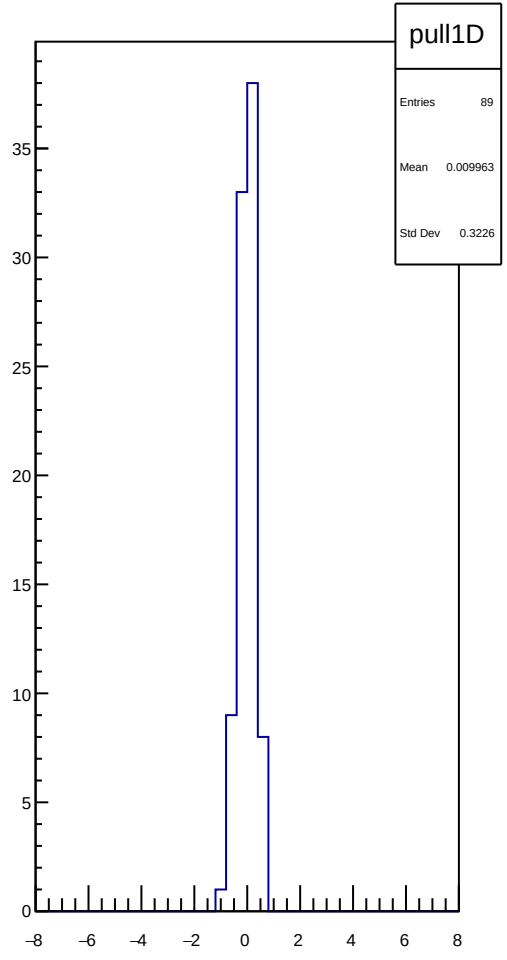

pull1D
Entries 89
Mean −0.01174
Std Dev 0.8885

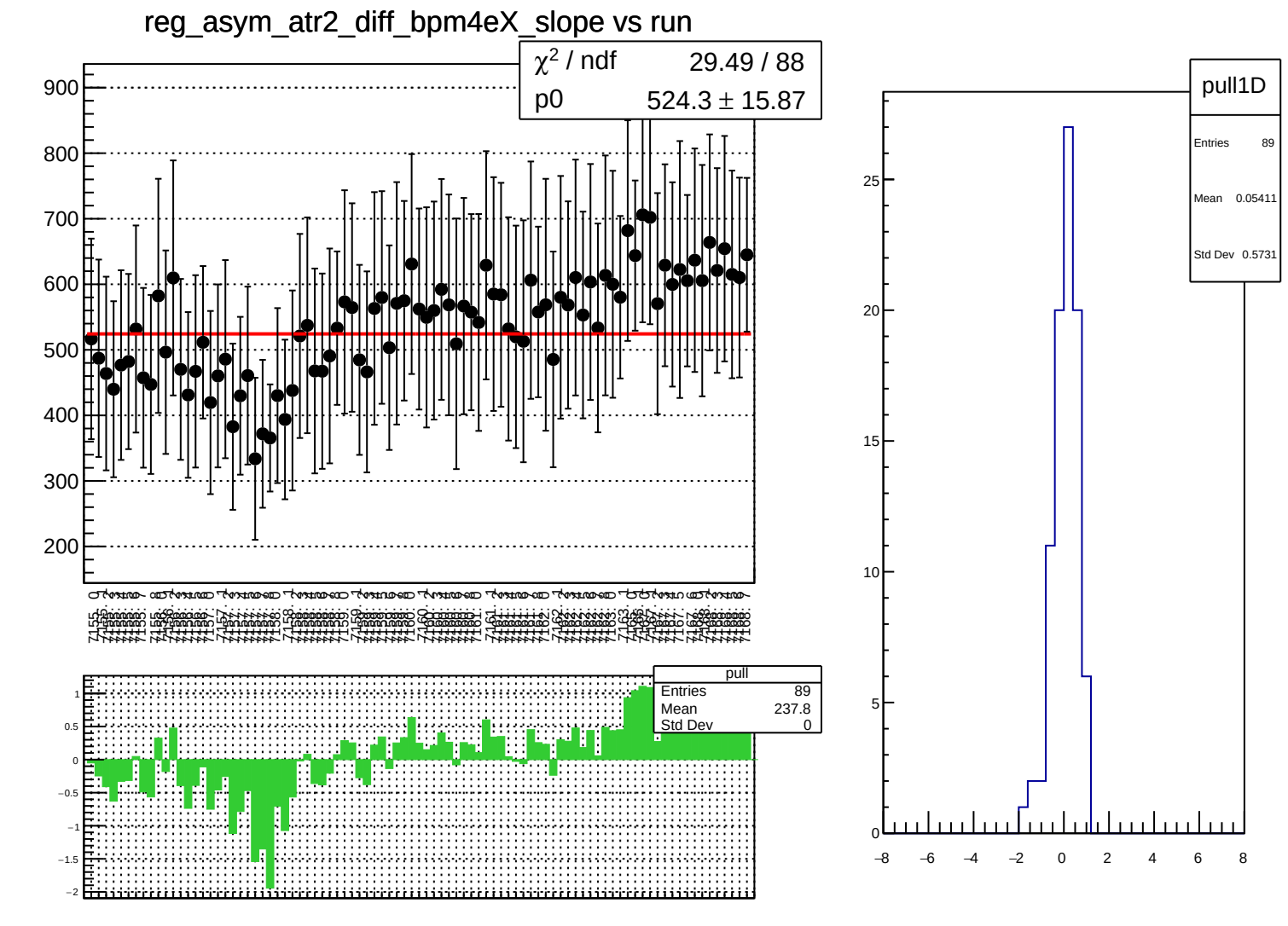

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 225.8 / 88
p0 −19.15 ± 0.1049
pull
Entries 89
Mean −262.4
Std Dev 0

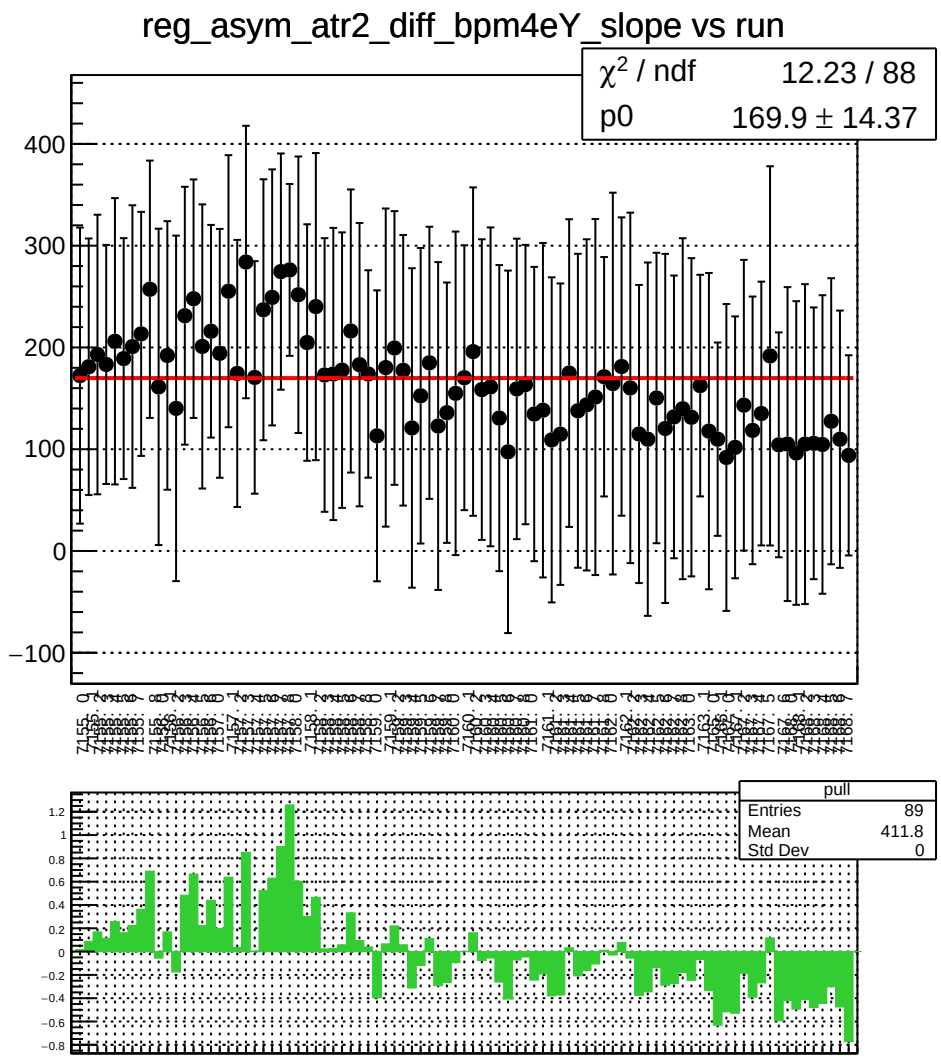

pull1D
Entries 89
Mean −0.01538
Std Dev 1.593

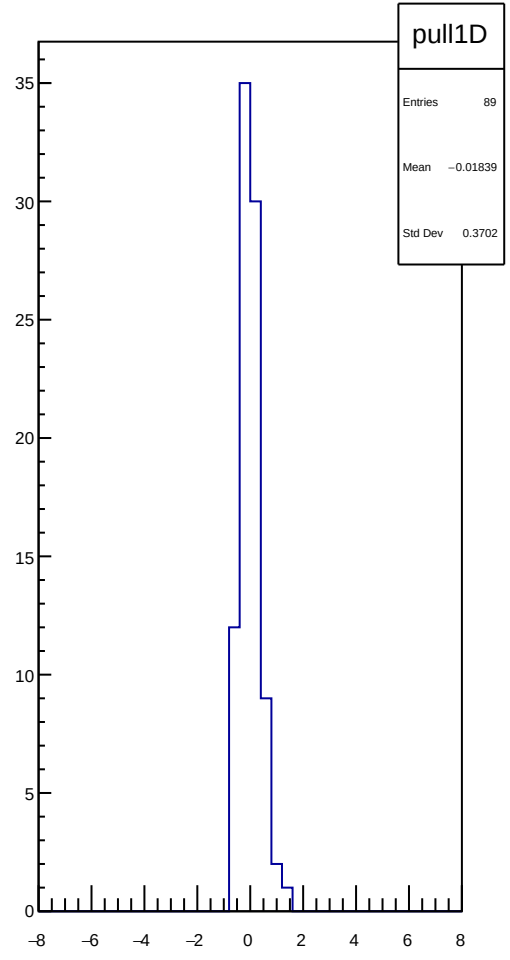

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 30.05 / 88
p0 −415.9 ± 15.66
pull
Entries 89
Mean 235.7
Std Dev 0
pull1D
Entries 89
Mean −0.05611
Std Dev 0.5784

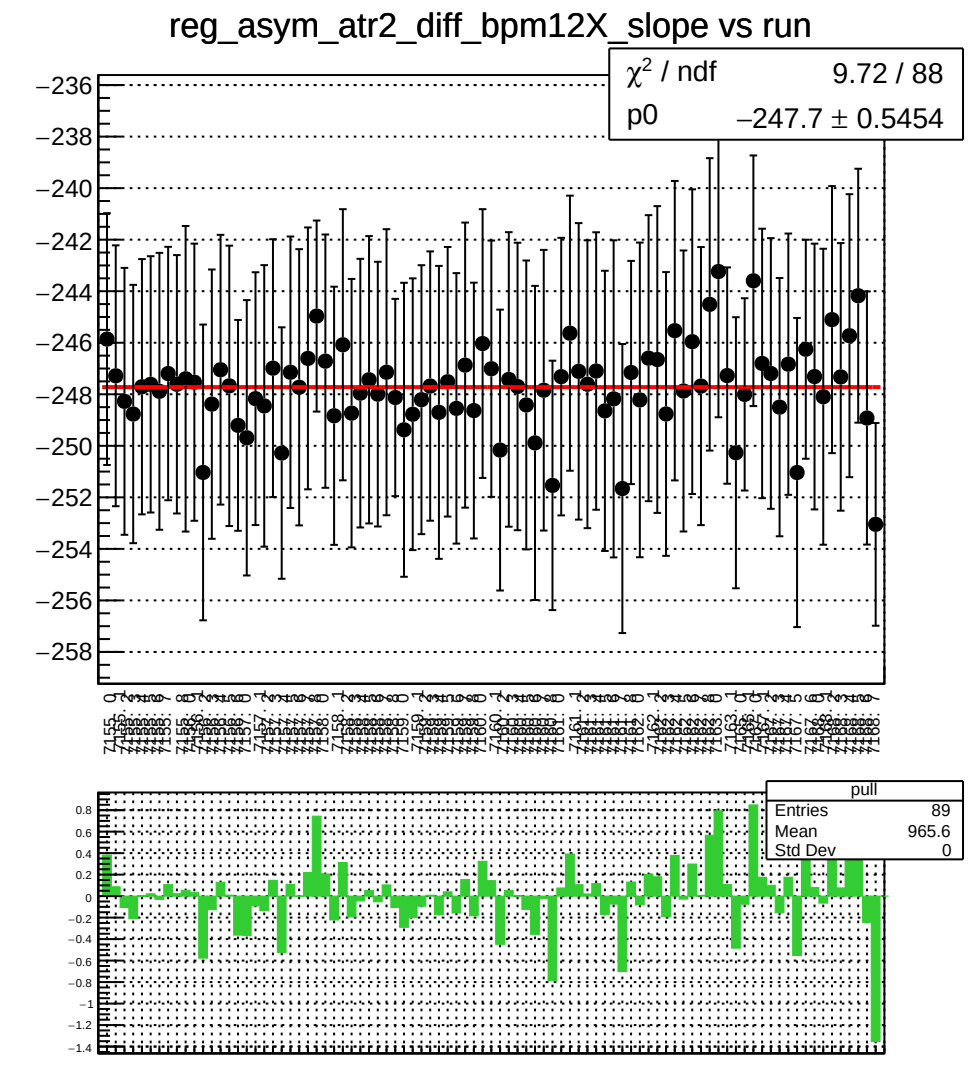

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 9.271 / 88
p0 −24.76 ± 12.37
200
100
0
−100
−200
pull
Entries 89
Mean 619.1
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

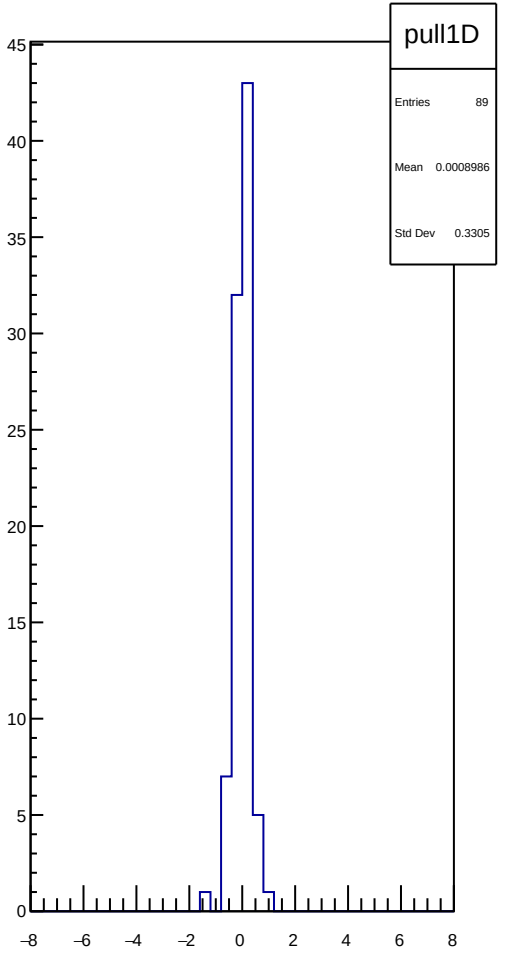

pull1D
Entries 89
Mean 0.009963
Std Dev 0.3226
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

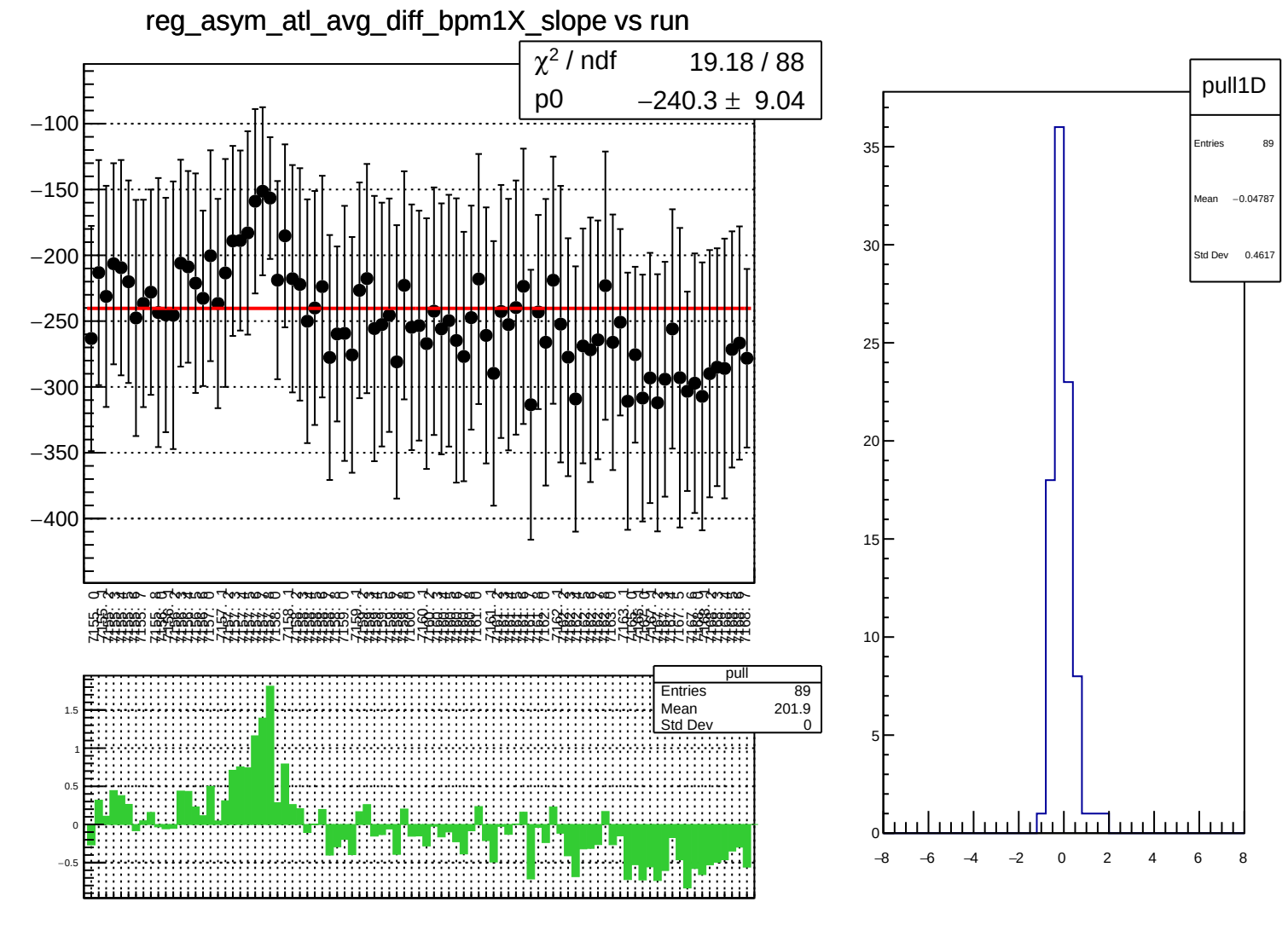

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 29.49 / 88
p0 524.3 ± 15.87
pull
Entries 89
Mean 237.8
Std Dev 0
pull1D
Entries 89
Mean 0.05411
Std Dev 0.5731

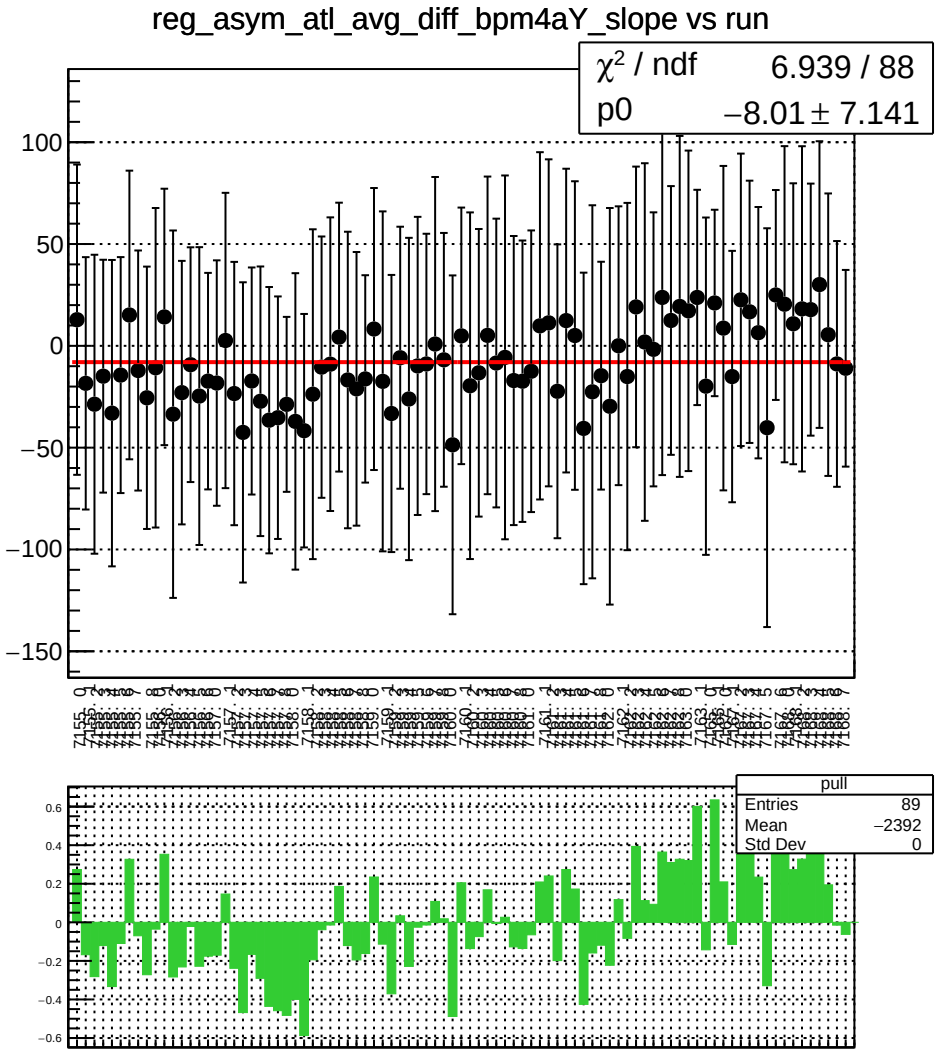

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 12.23 / 88
p0 169.9 ± 14.37
pull
Entries 89
Mean 411.8
Std Dev 0

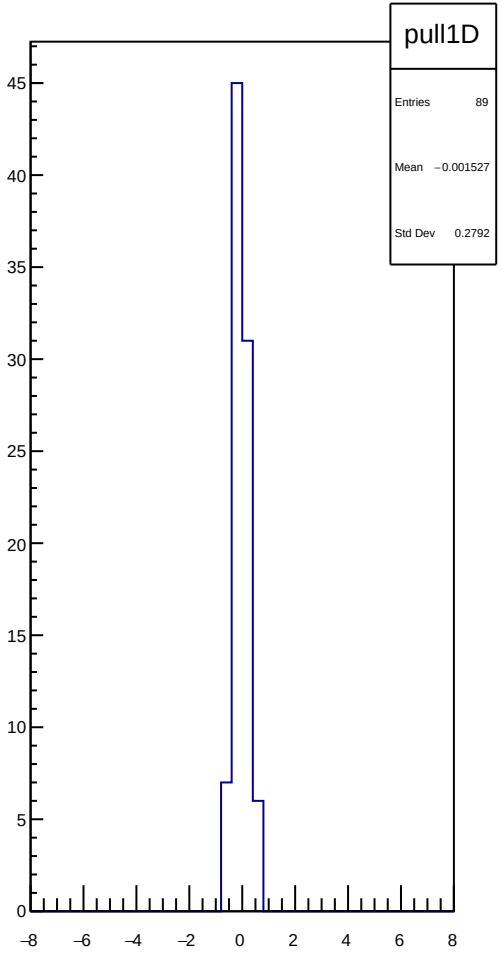

pull1D
Entries 89
Mean −0.01839
Std Dev 0.3702

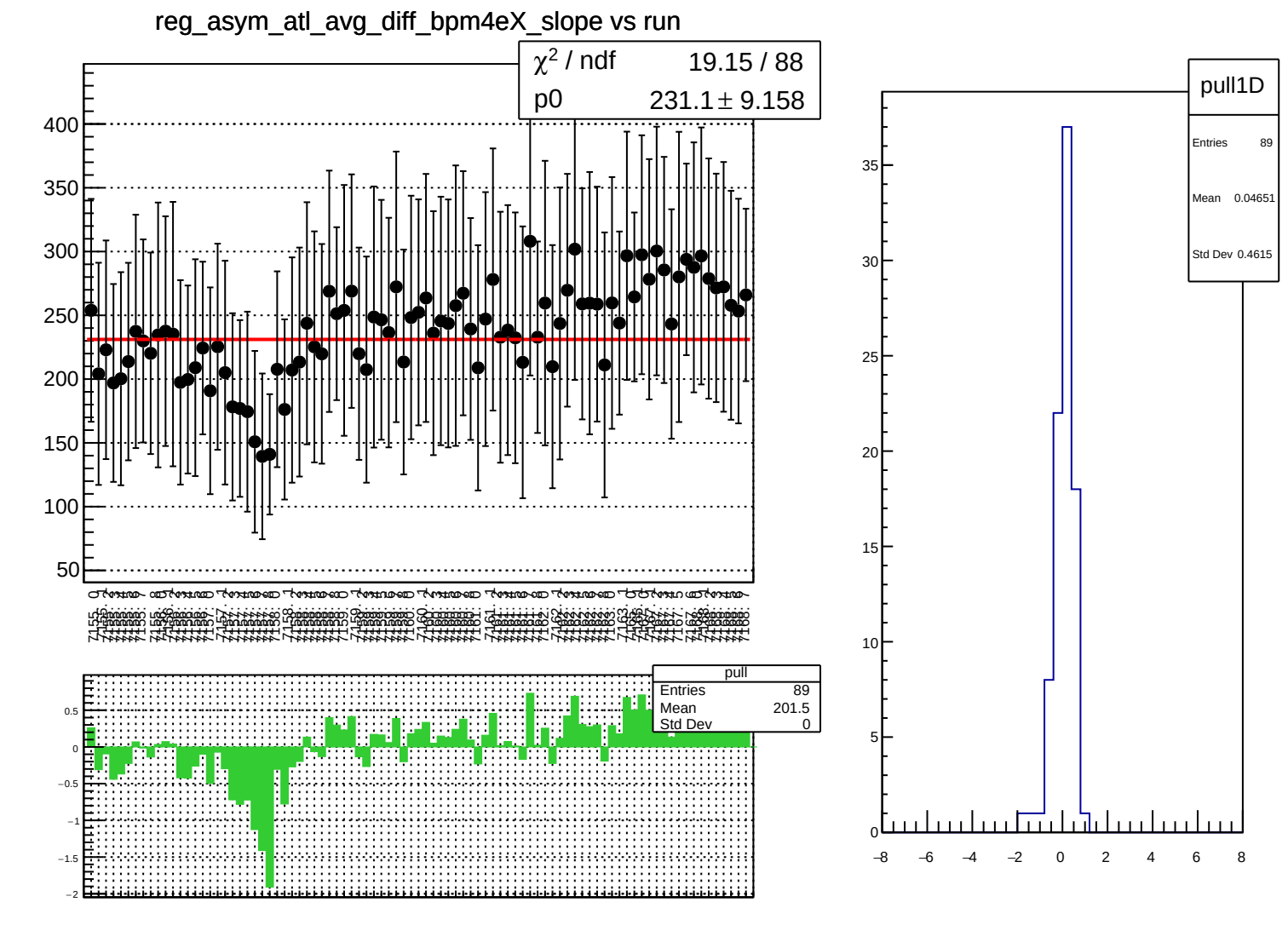

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 9.72 / 88
p0 −247.7 ± 0.5454
pull
Entries 89
Mean 965.6
Std Dev 0

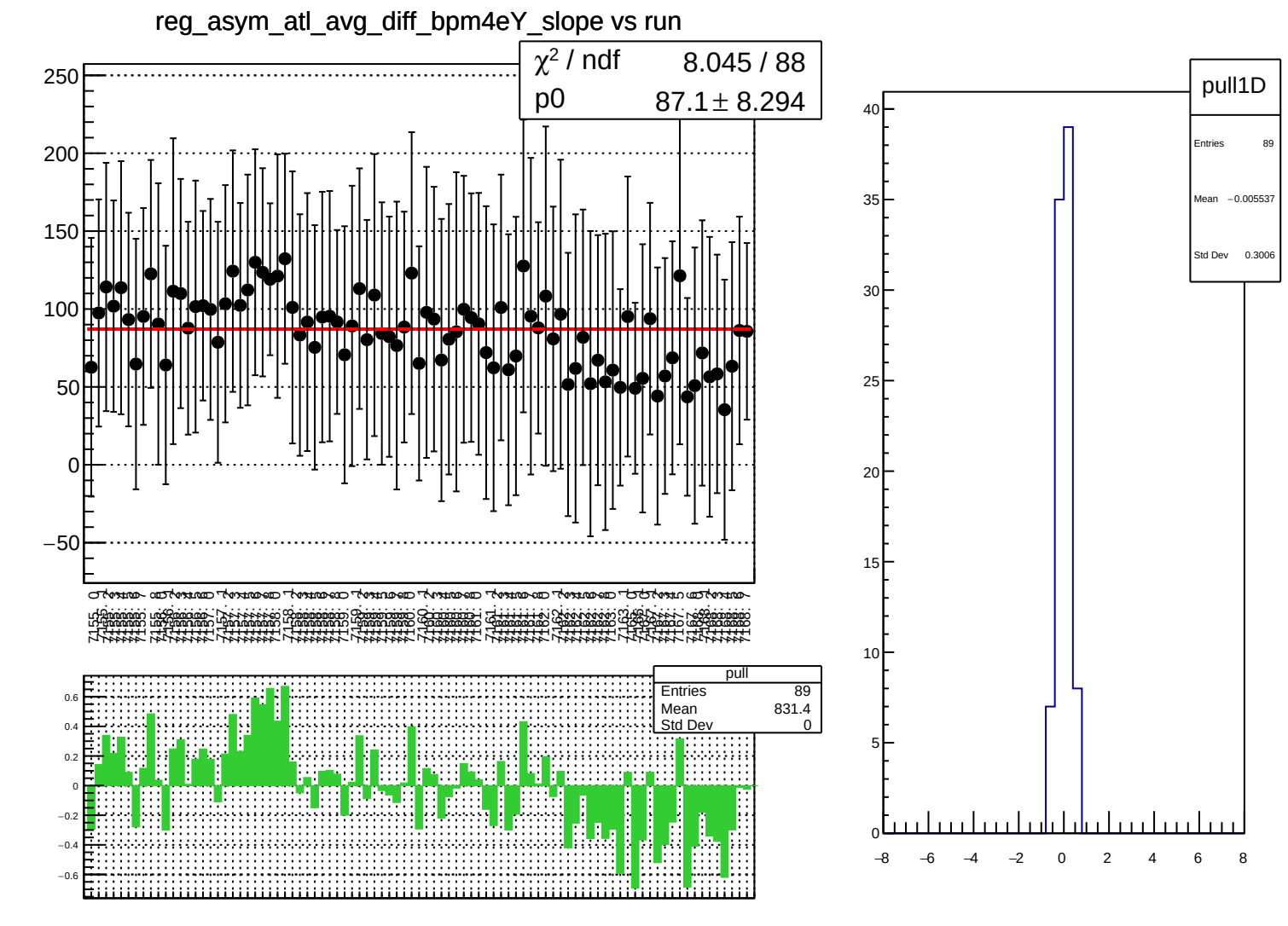

pull1D
Entries 89
Mean 0.0008986
Std Dev 0.3305

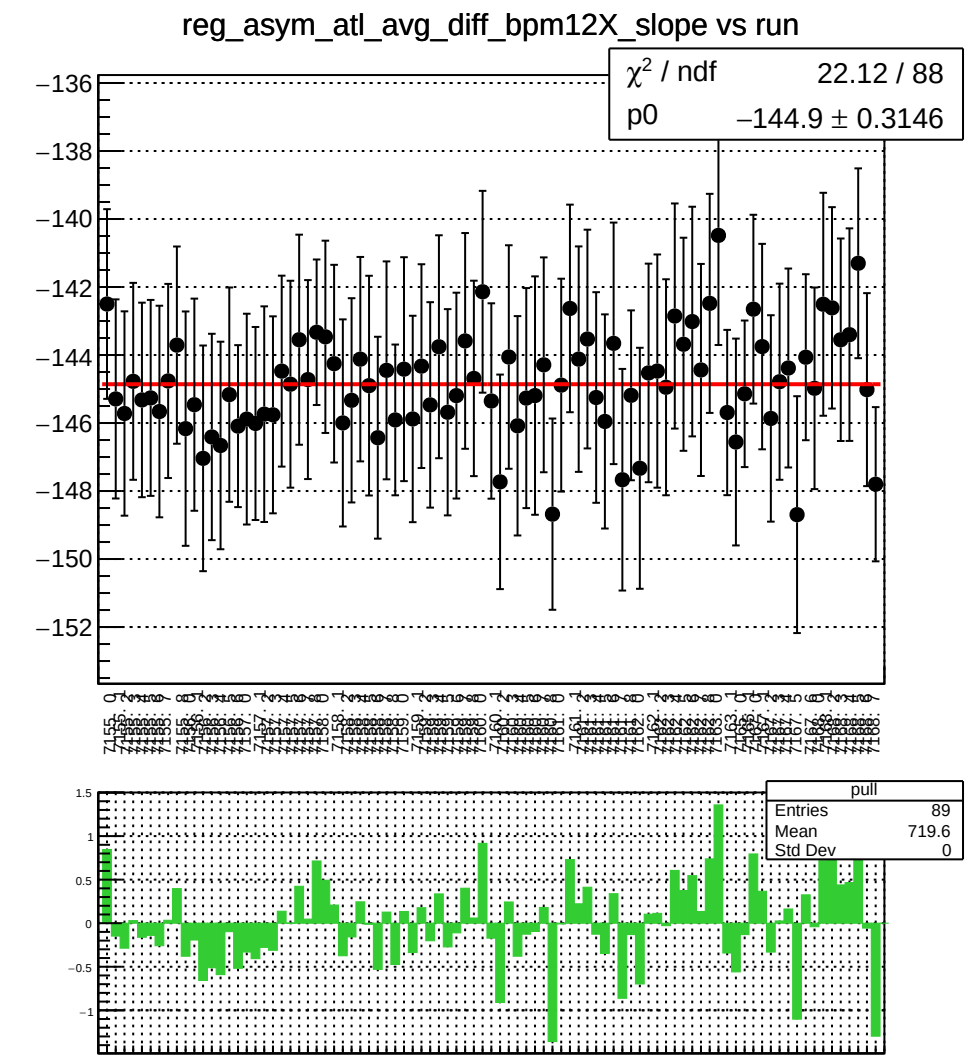

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 19.18 / 88
p0 −240.3 ± 9.04
pull
Entries 89
Mean 201.9
Std Dev 0
pull1D
Entries 89
Mean −0.04787
Std Dev 0.4617

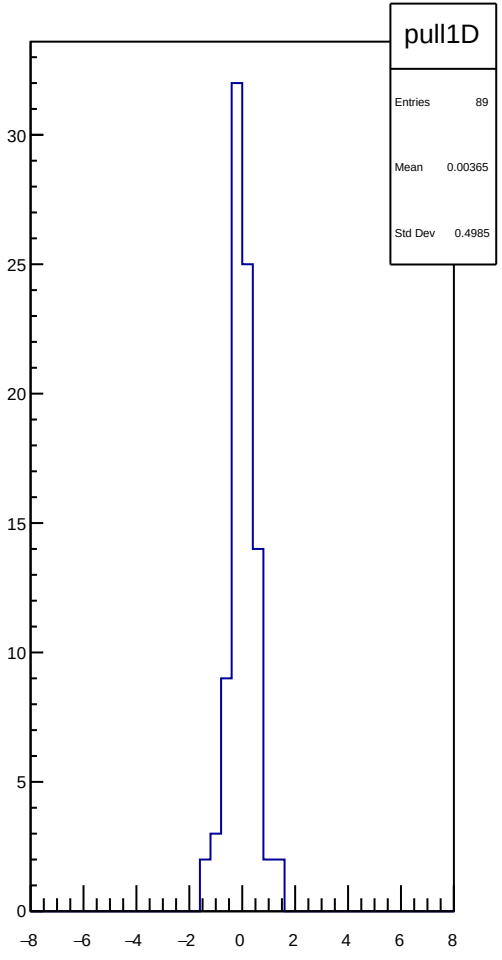

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.939 / 88
p0 −8.01 ± 7.141
pull
Entries 89
Mean −2392
Std Dev 0

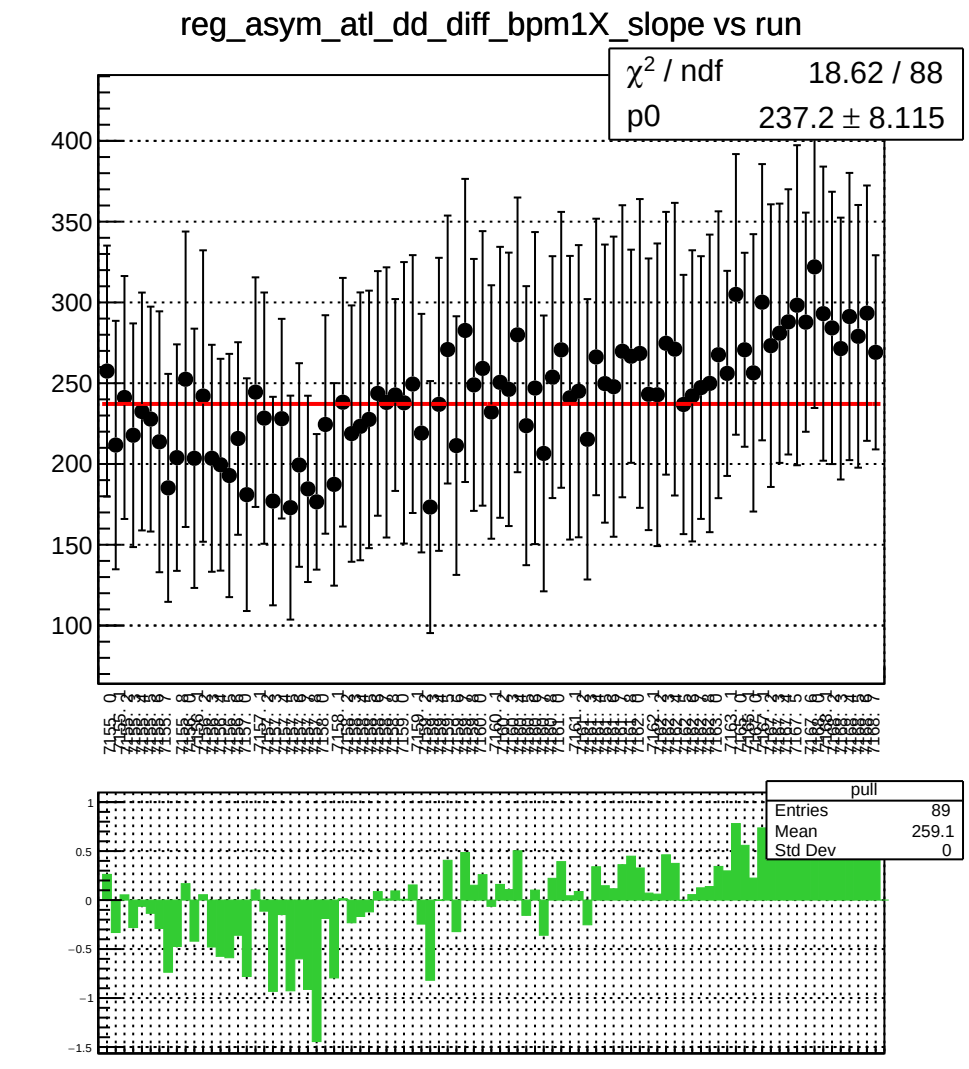

pull1D
Entries 89
Mean −0.001527
Std Dev 0.2792

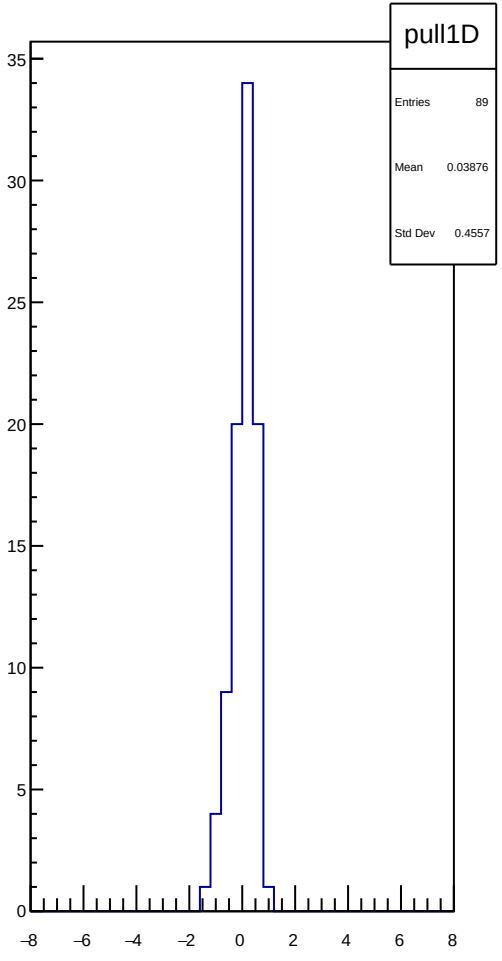

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.15 / 88
p0 231.1 ± 9.158
pull
Entries 89
Mean 201.5
Std Dev 0
pull1D
Entries 89
Mean 0.04651
Std Dev 0.4615

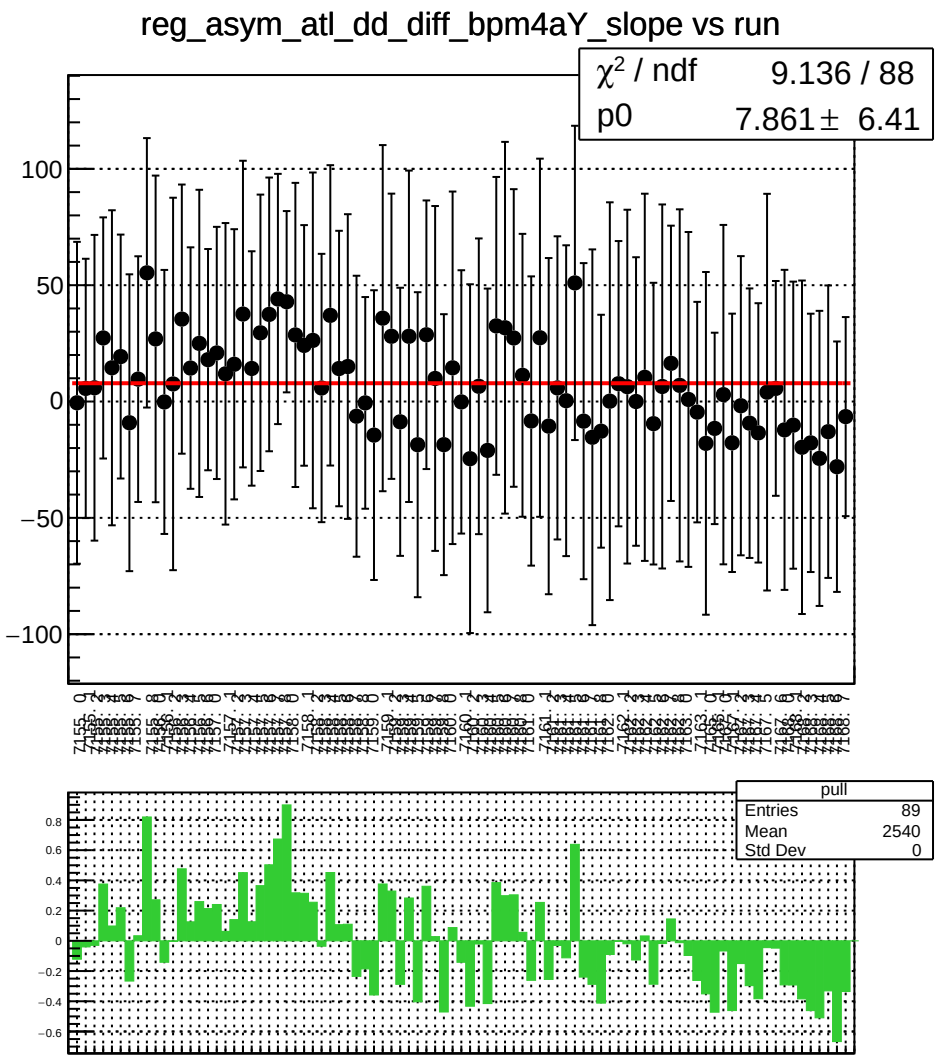

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.045 / 88
p0 87.1 ± 8.294
pull
Entries 89
Mean 831.4
Std Dev 0
pull1D
Entries 89
Mean −0.005537
Std Dev 0.3006

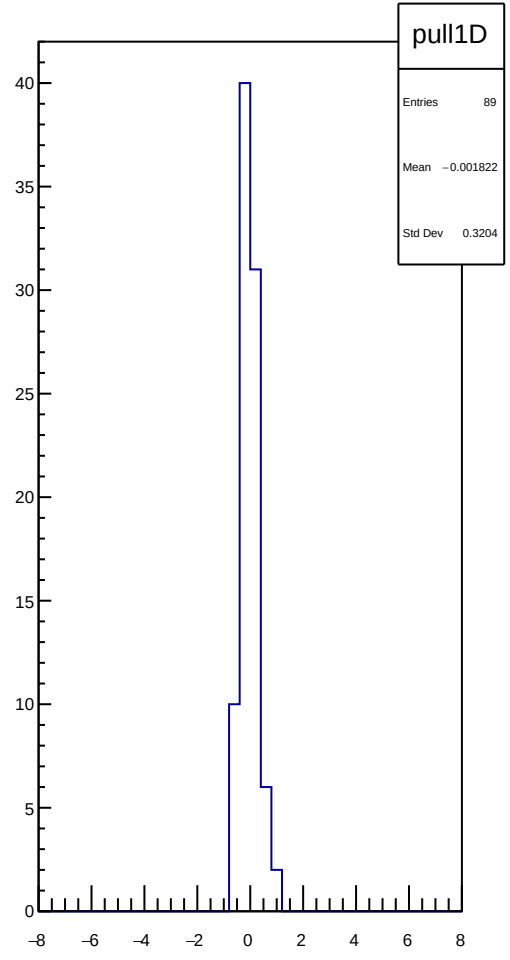

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 22.12 / 88
p0 −144.9 ± 0.3146
pull
Entries 89
Mean 719.6
Std Dev 0

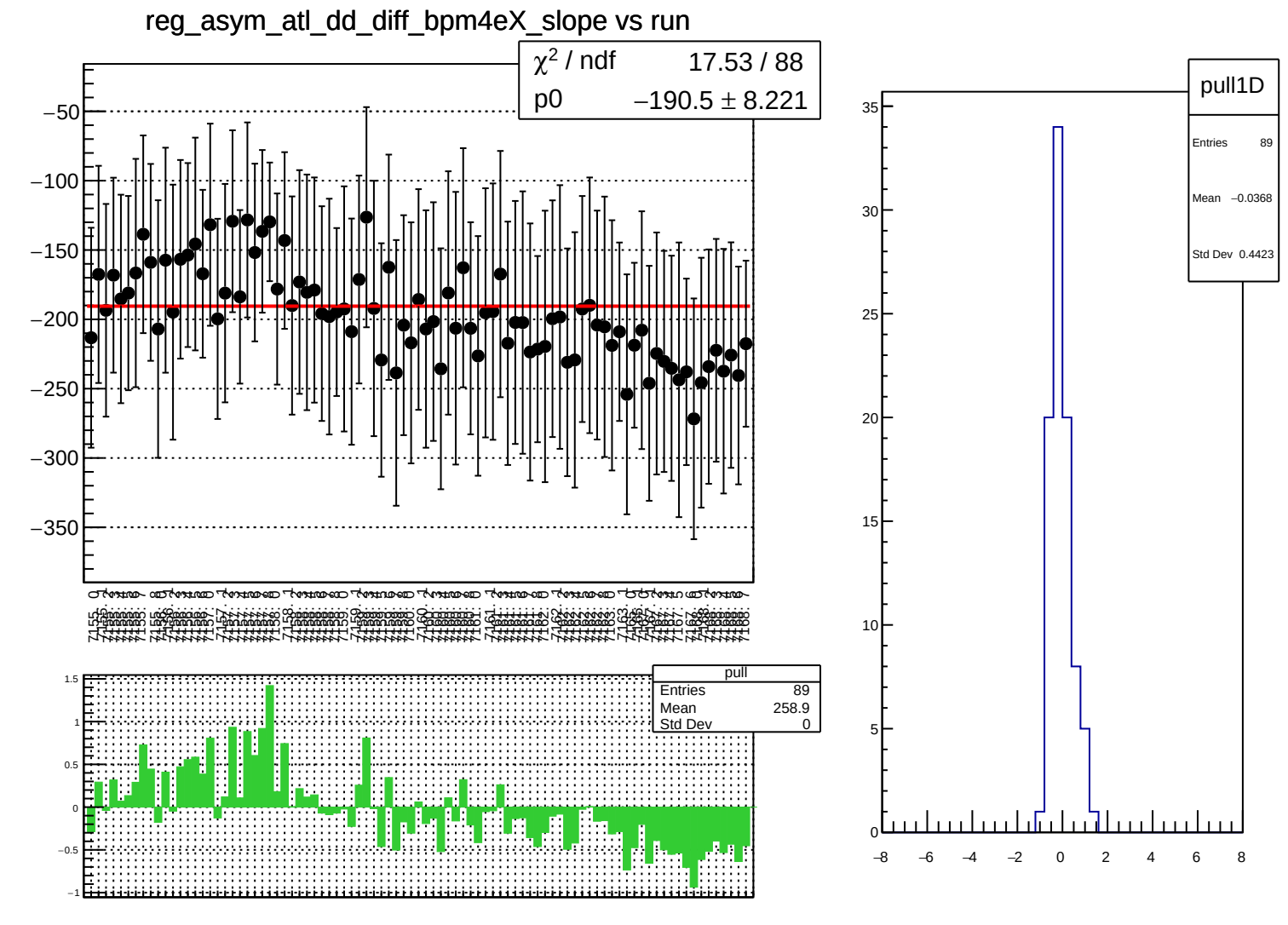

pull1D
Entries 89
Mean 0.00365
Std Dev 0.4985

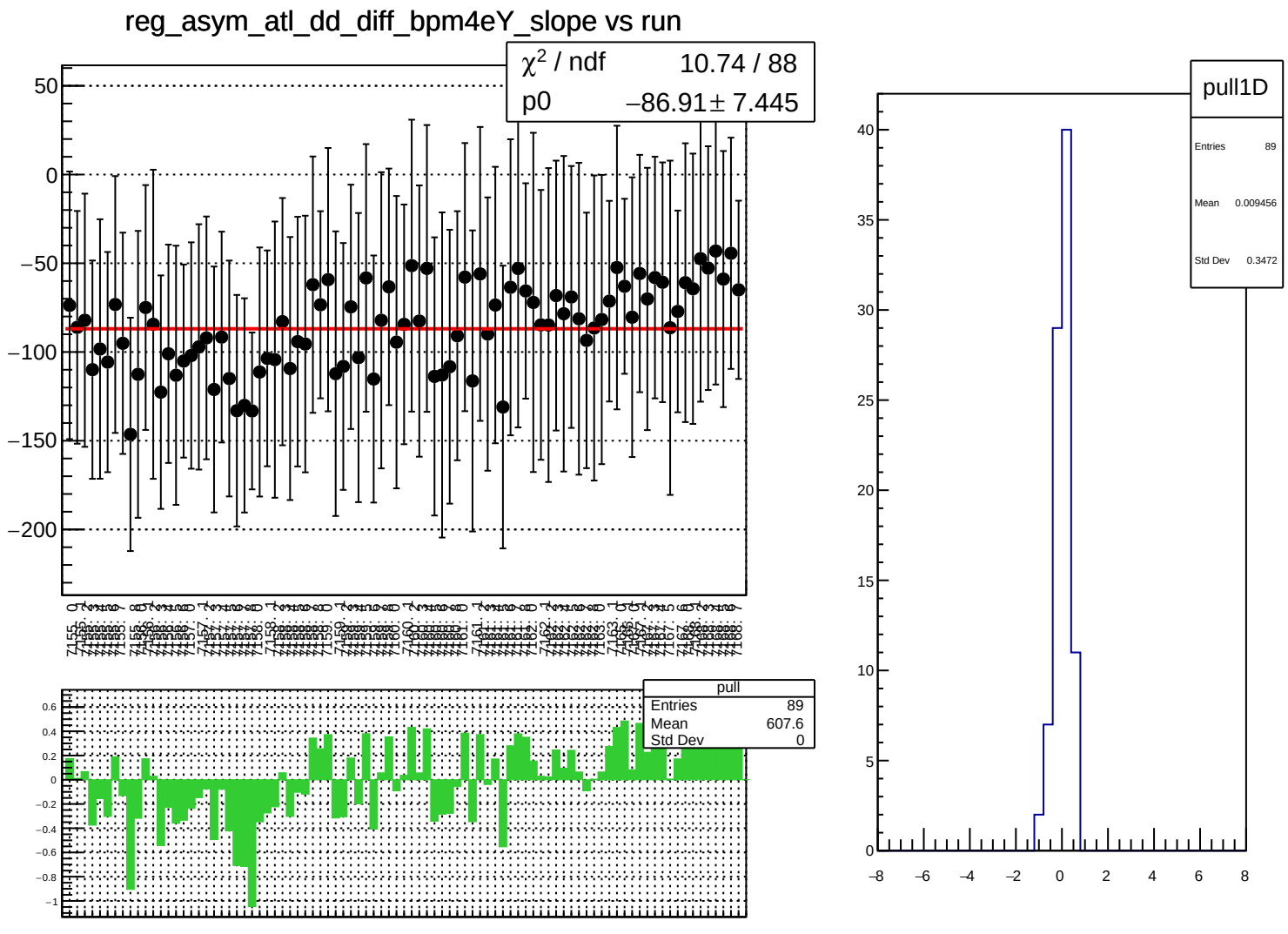

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 18.62 / 88
p0 237.2 ± 8.115
pull
Entries 89
Mean 259.1
Std Dev 0

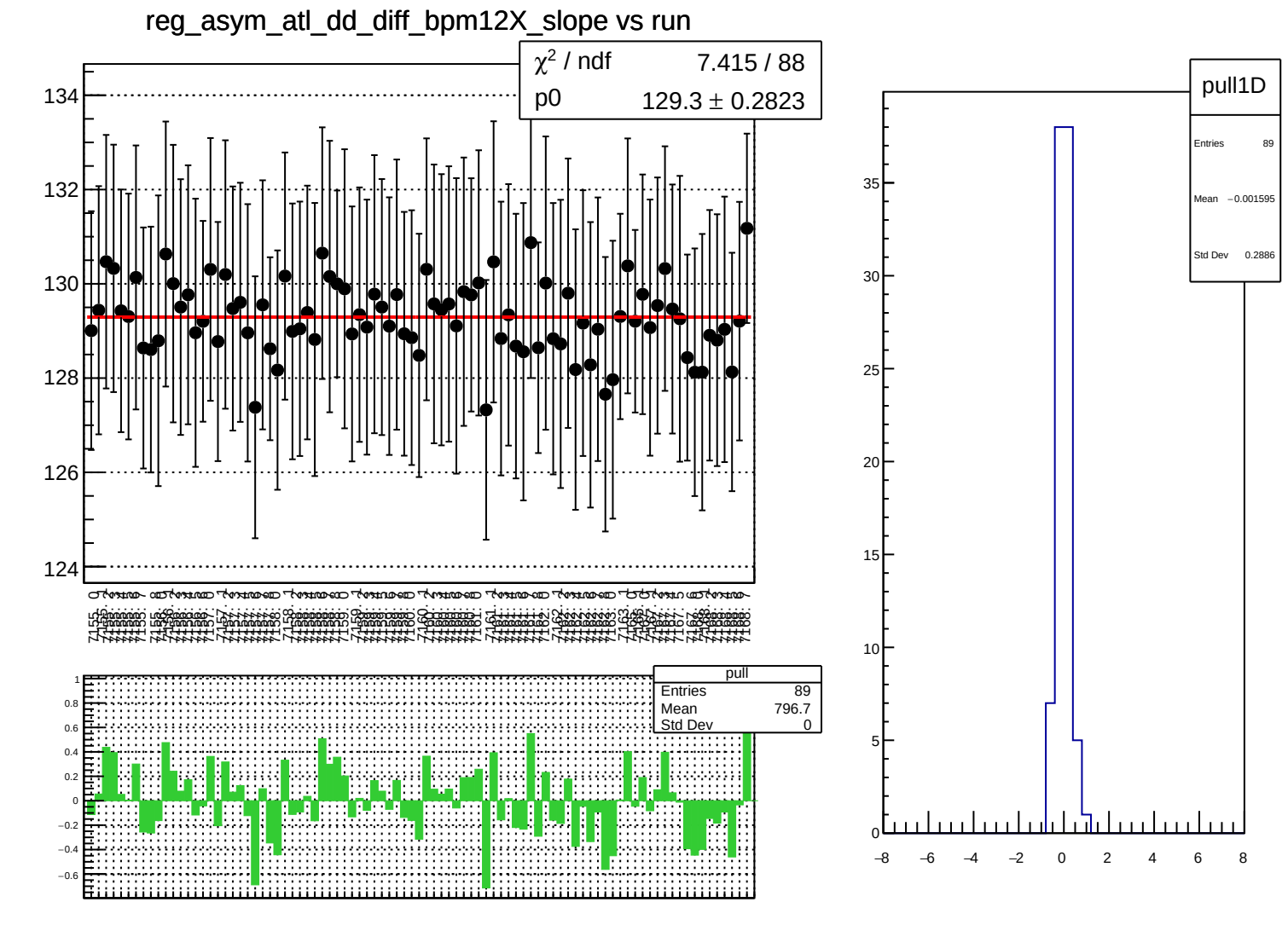

pull1D
Entries 89
Mean 0.03876
Std Dev 0.4557

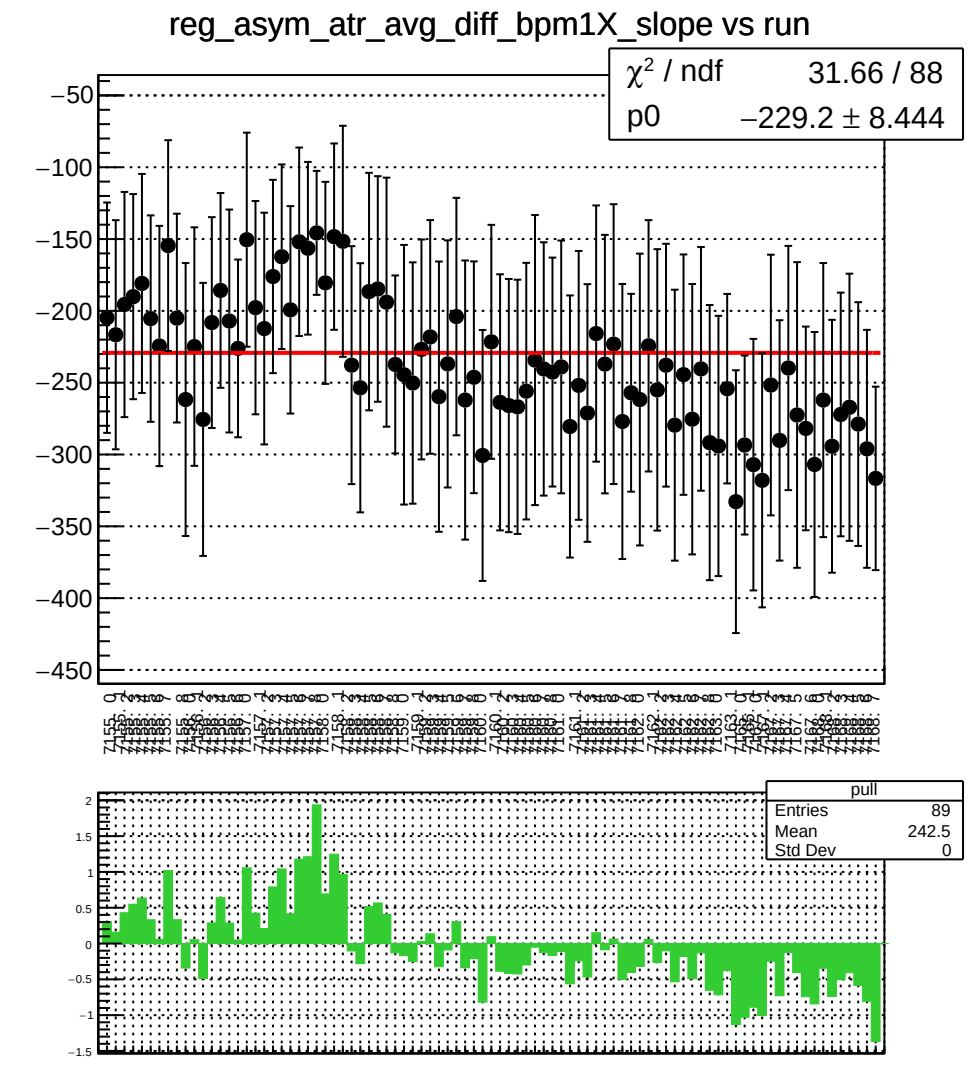

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.136 / 88
p0 7.861 ± 6.41
100
50
0
−50
−100
pull
Entries 89
Mean 2540
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

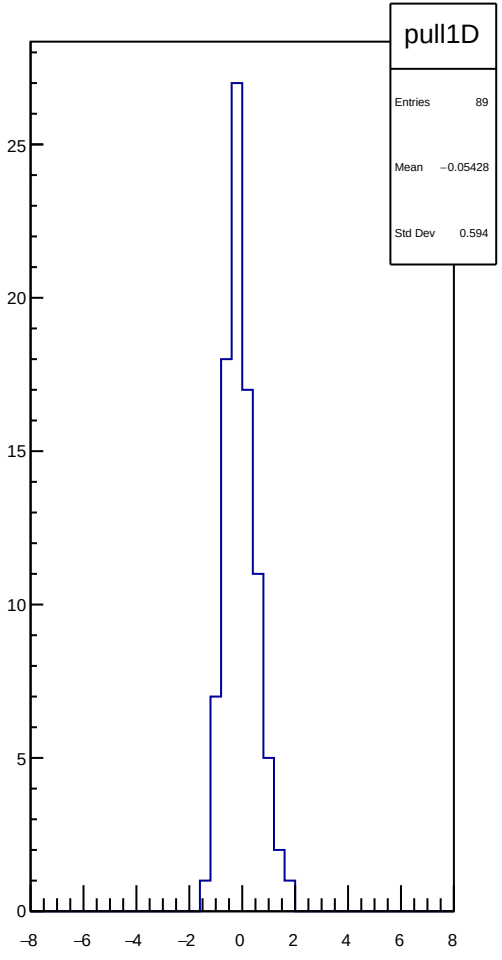

pull1D
Entries 89
Mean −0.001822
Std Dev 0.3204
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

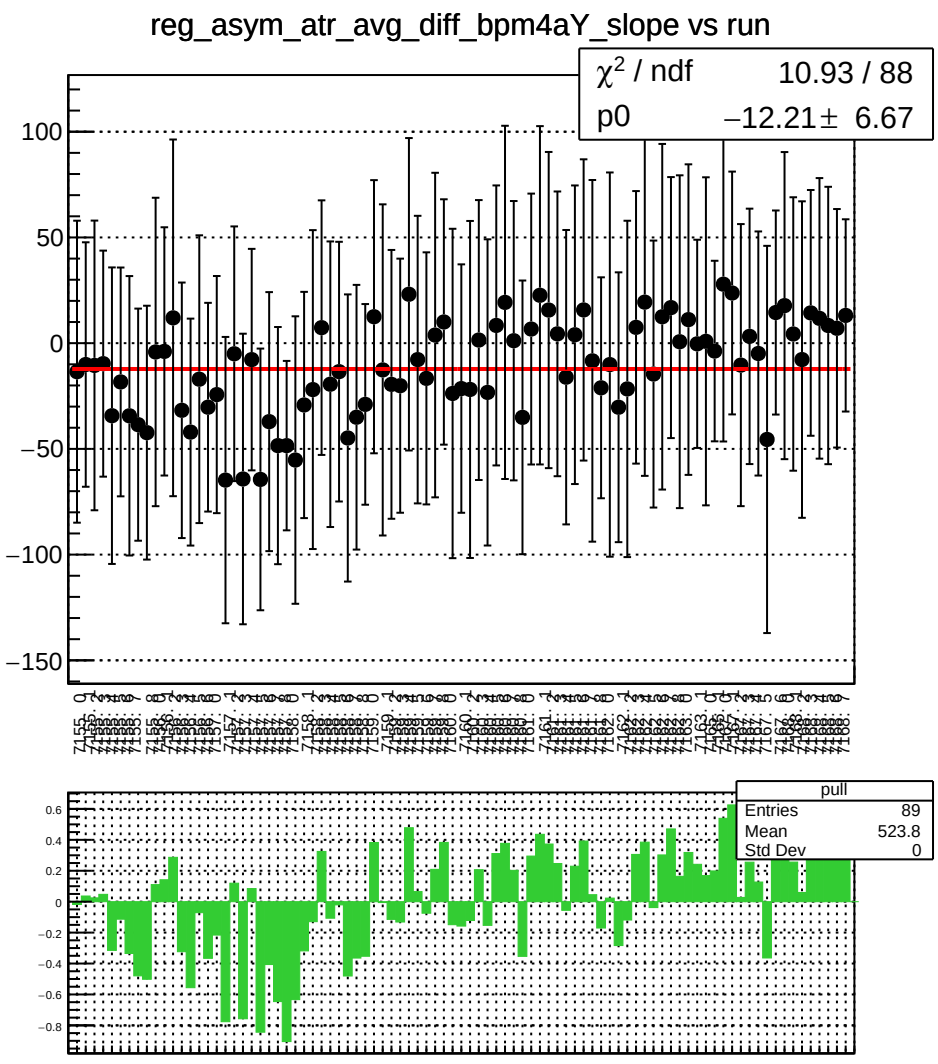

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.53 / 88
p0 −190.5 ± 8.221
pull
Entries 89
Mean 258.9
Std Dev 0
pull1D
Entries 89
Mean −0.0368
Std Dev 0.4423

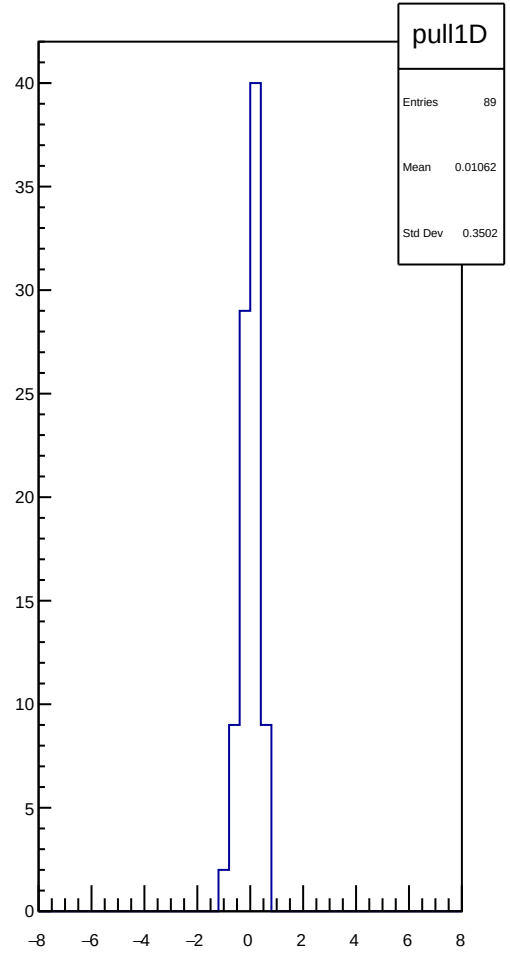

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.74 / 88
p0 −86.91± 7.445
pull
Entries 89
Mean 607.6
Std Dev 0
pull1D
Entries 89
Mean 0.009456
Std Dev 0.3472

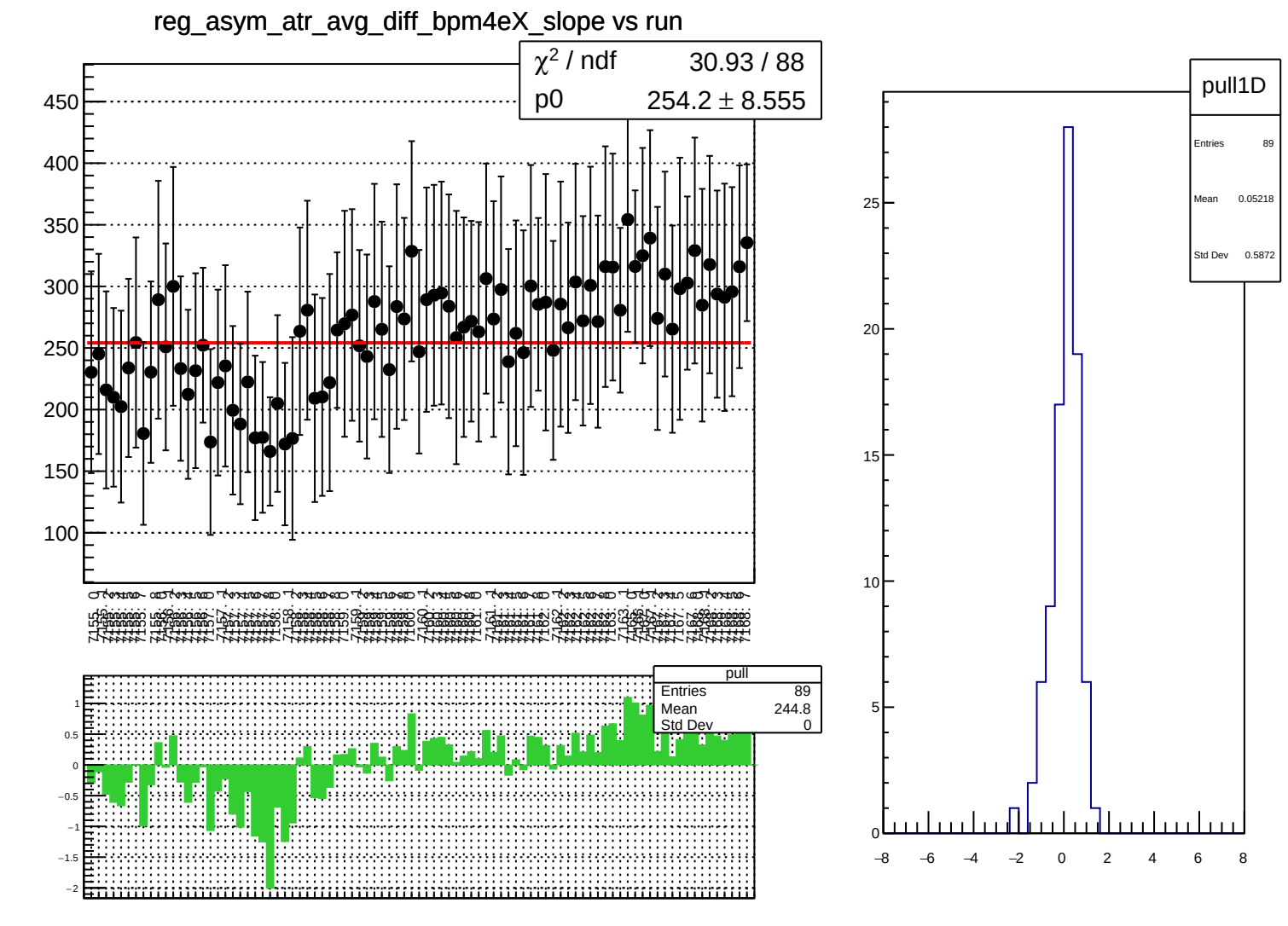

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 7.415 / 88
p0 129.3 ± 0.2823
134
132
130
128
126
124
pull
Entries 89
Mean 796.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.001595
Std Dev 0.2886
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

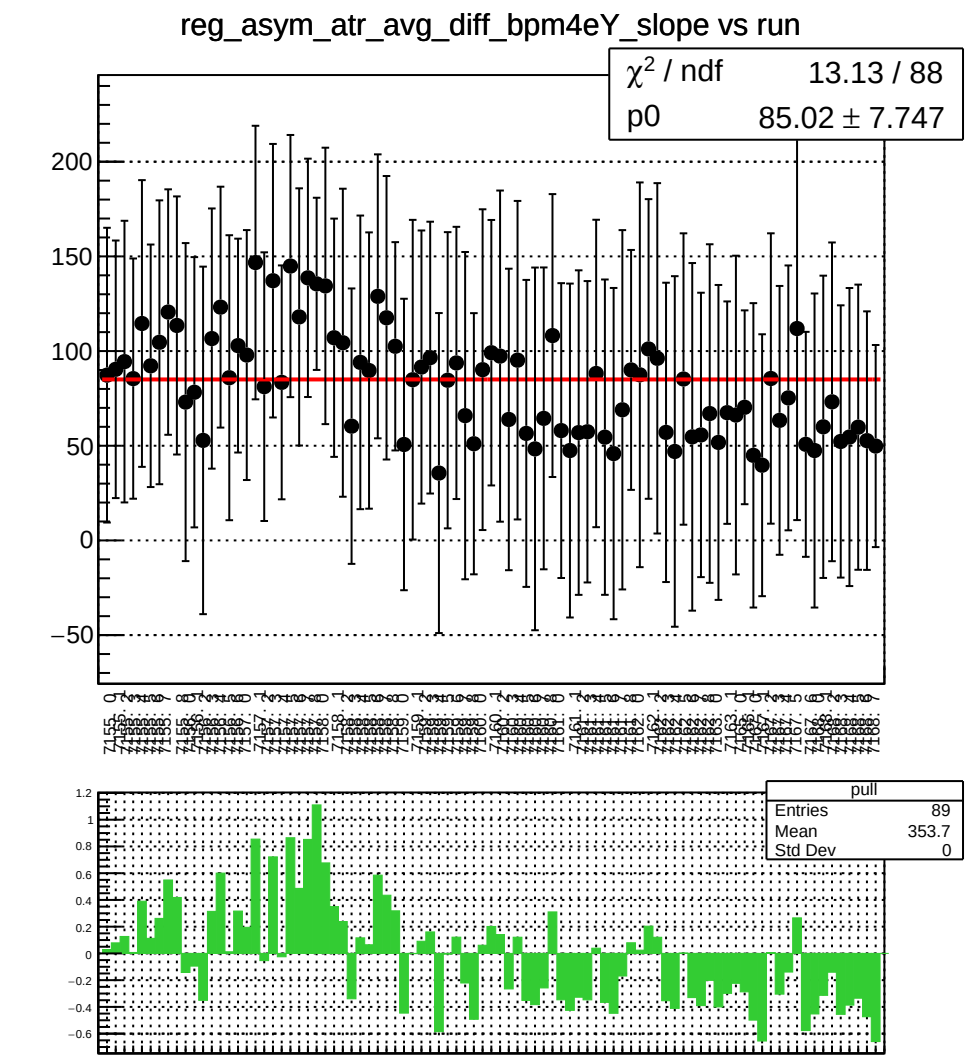

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 31.66 / 88
p0 −229.2 ± 8.444
pull
Entries 89
Mean 242.5
Std Dev 0

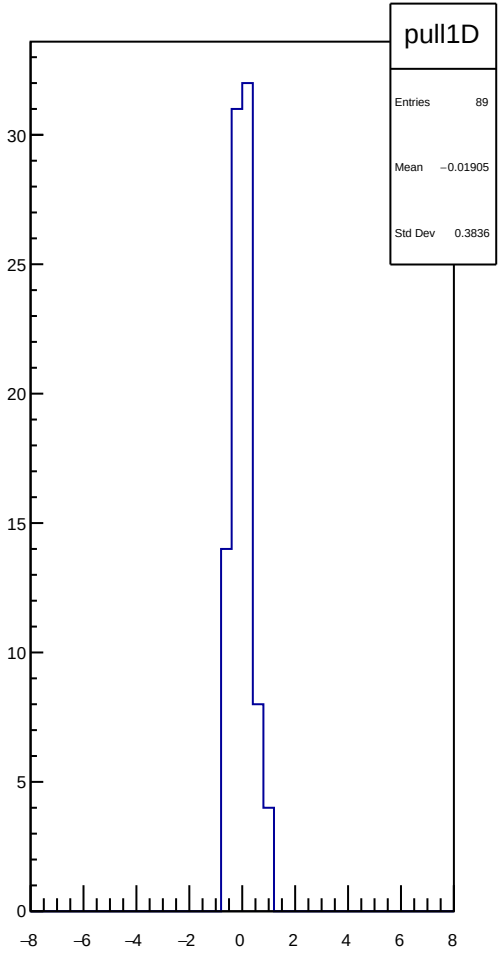

pull1D
Entries 89
Mean −0.05428
Std Dev 0.594

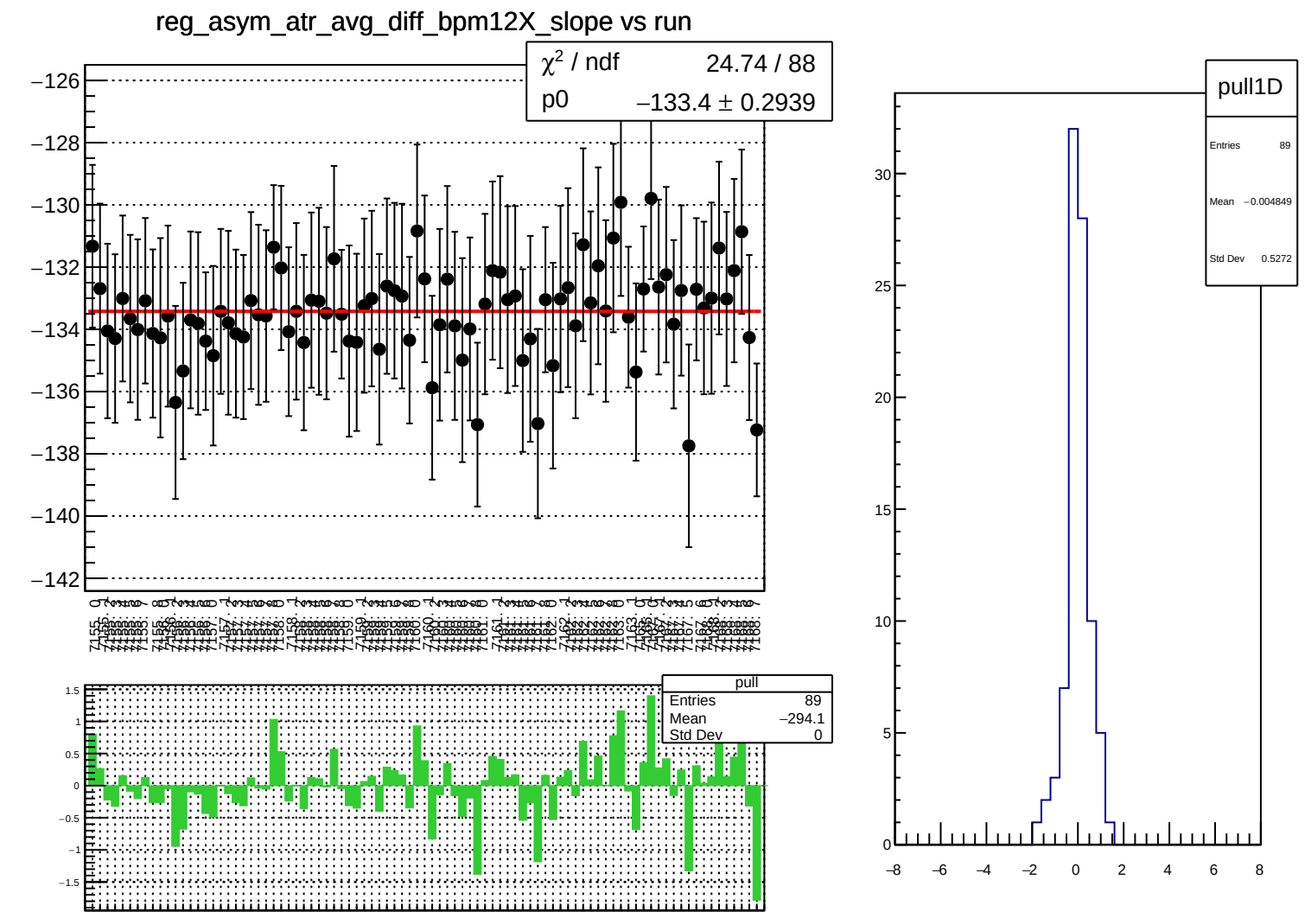

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.93 / 88
p0 −12.21 ± 6.67
100
50
0
−50
−100
−150
pull
Entries 89
Mean 523.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

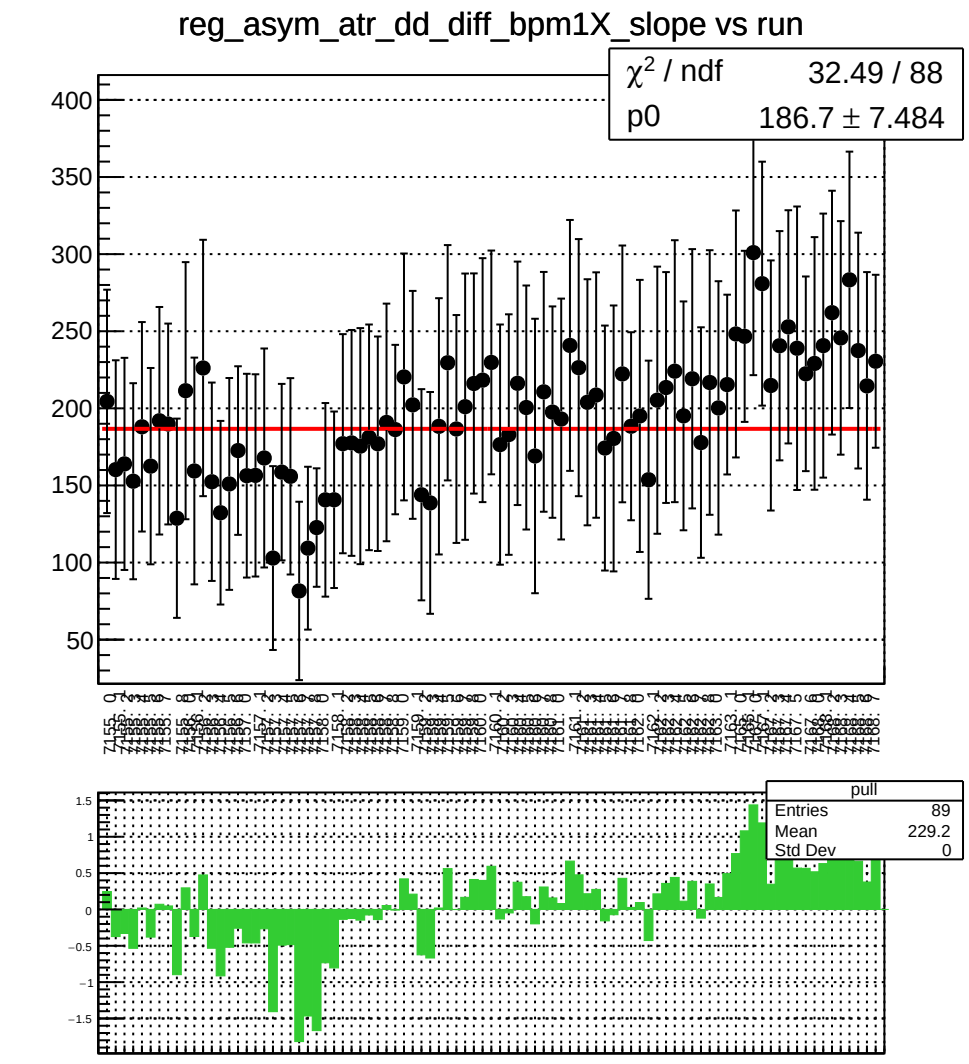

pull1D
Entries 89
Mean 0.01062
Std Dev 0.3502
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

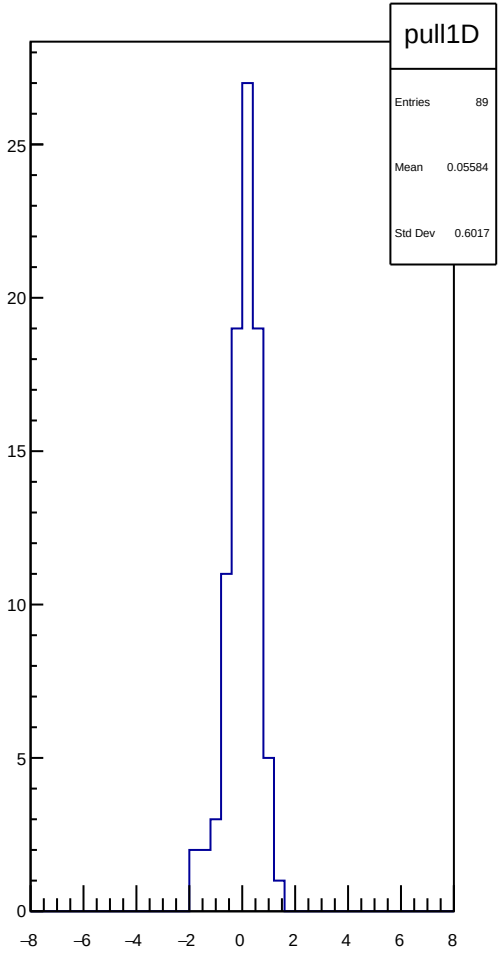

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 30.93 / 88
p0 254.2 ± 8.555
pull
Entries 89
Mean 244.8
Std Dev 0
pull1D
Entries 89
Mean 0.05218
Std Dev 0.5872

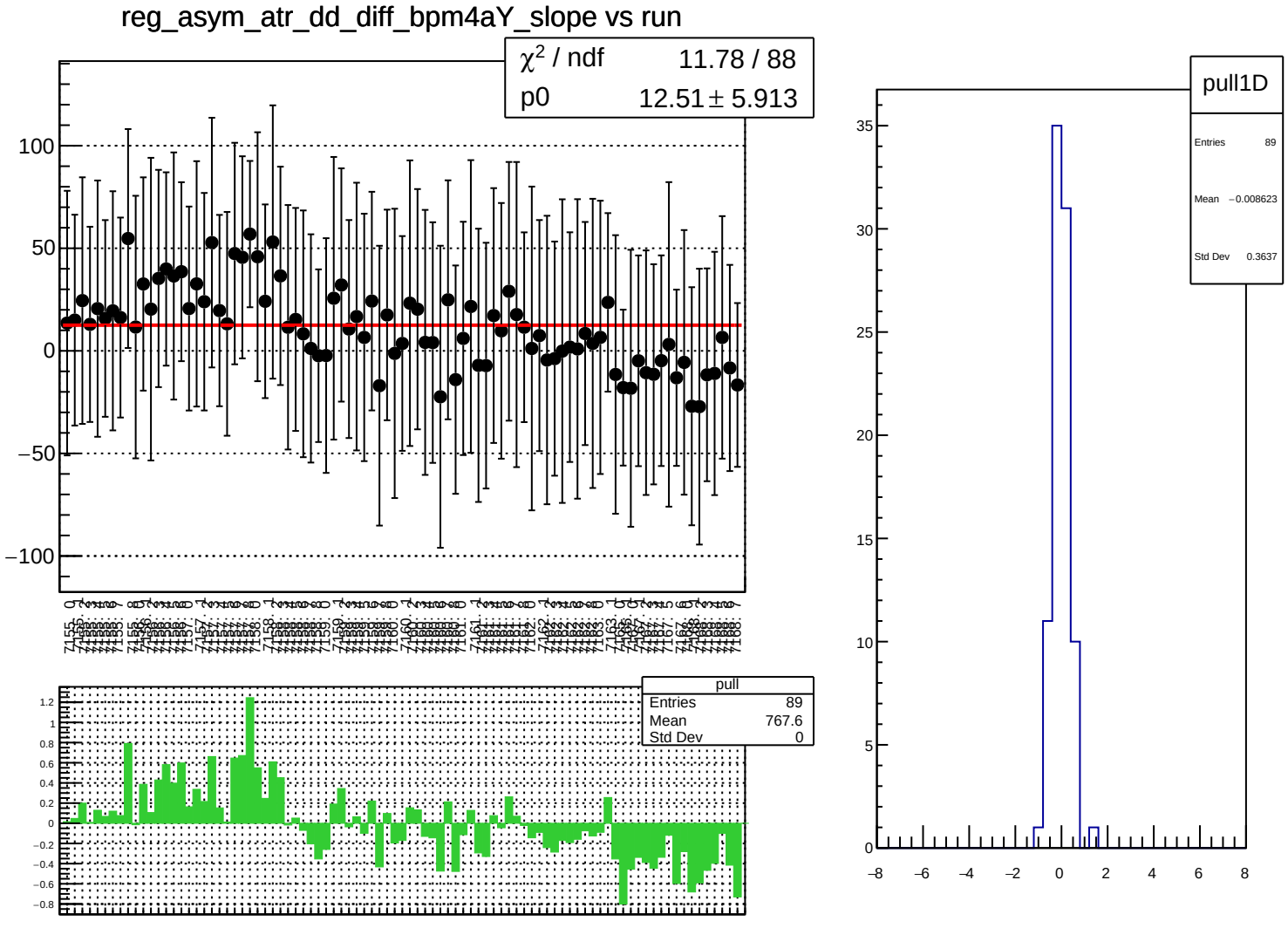

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.13 / 88
p0 85.02 ± 7.747
pull
Entries 89
Mean 353.7
Std Dev 0

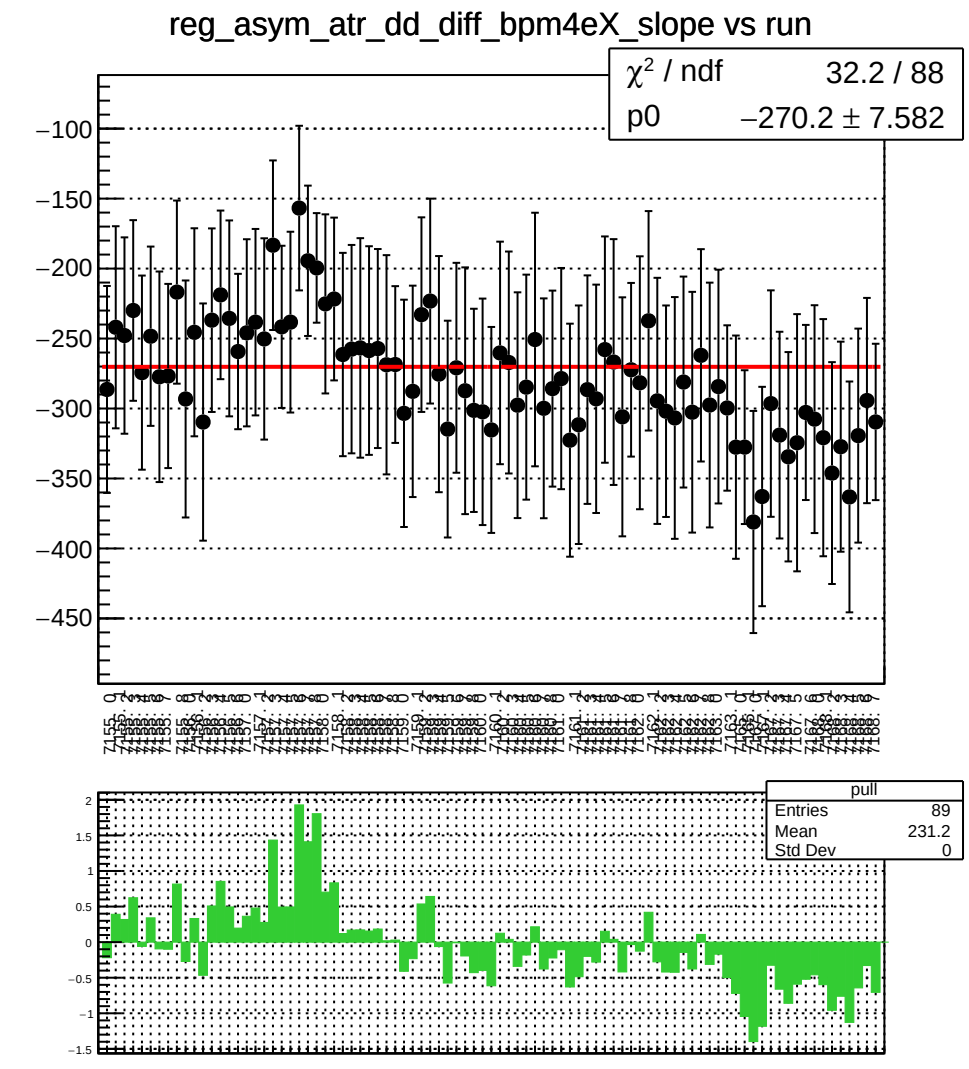

pull1D
Entries 89
Mean −0.01905
Std Dev 0.3836

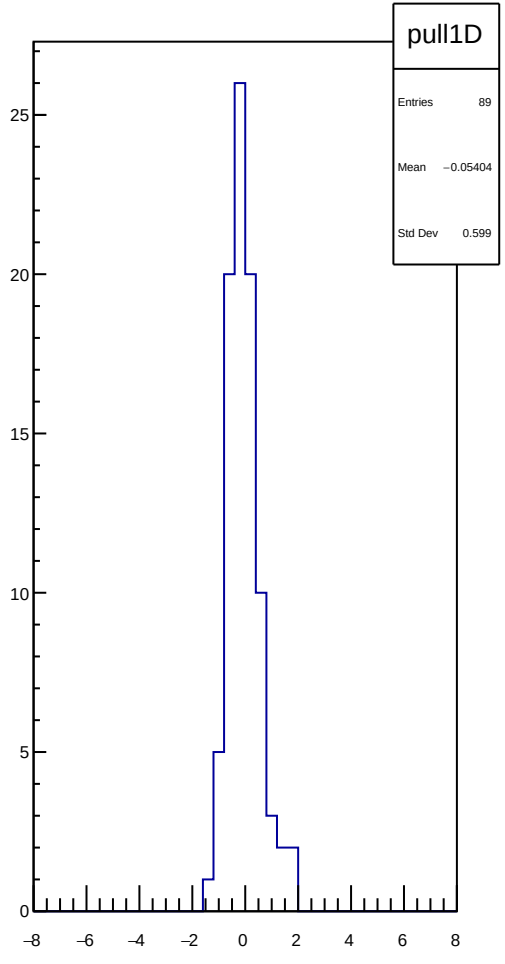

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 24.74 / 88
p0 −133.4 ± 0.2939
pull
Entries 89
Mean −294.1
Std Dev 0
pull1D
Entries 89
Mean −0.004849
Std Dev 0.5272

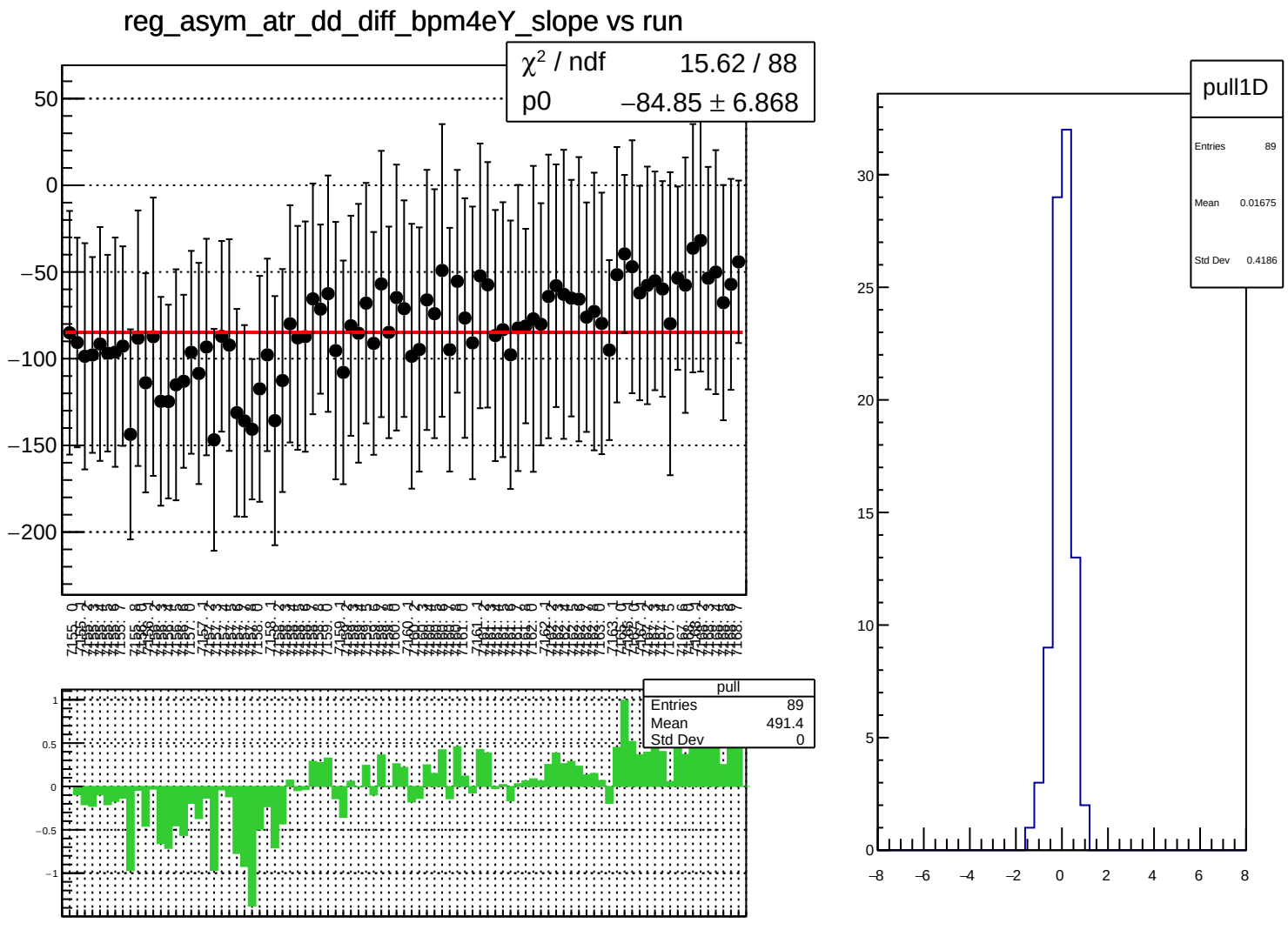

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 32.49 / 88
p0 186.7 ± 7.484
pull
Entries 89
Mean 229.2
Std Dev 0

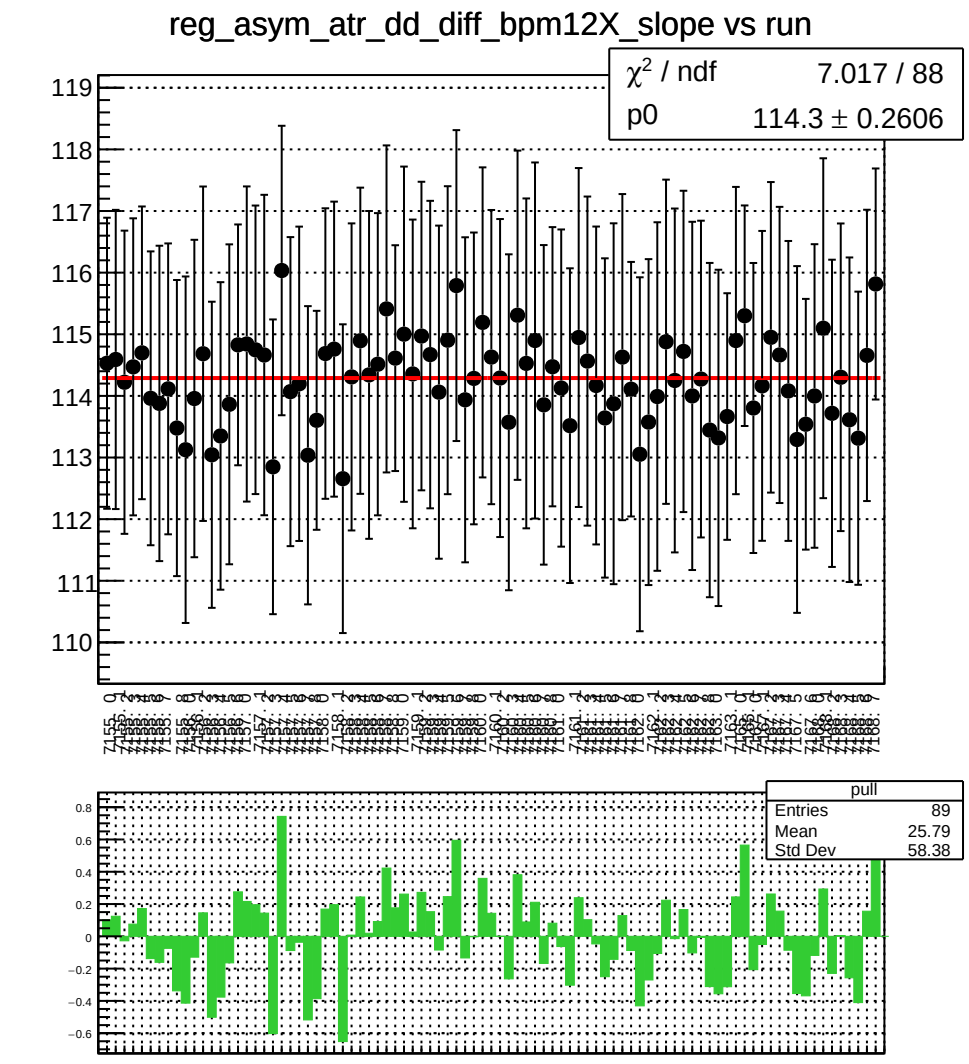

pull1D
Entries 89
Mean 0.05584
Std Dev 0.6017

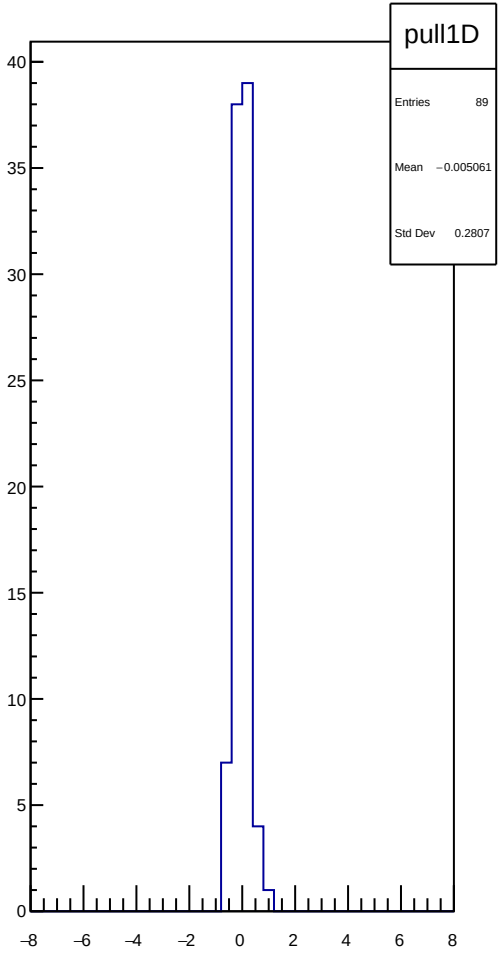

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 11.78 / 88
p0 12.51 ± 5.913
pull
Entries 89
Mean 767.6
Std Dev 0
pull1D
Entries 89
Mean −0.008623
Std Dev 0.3637

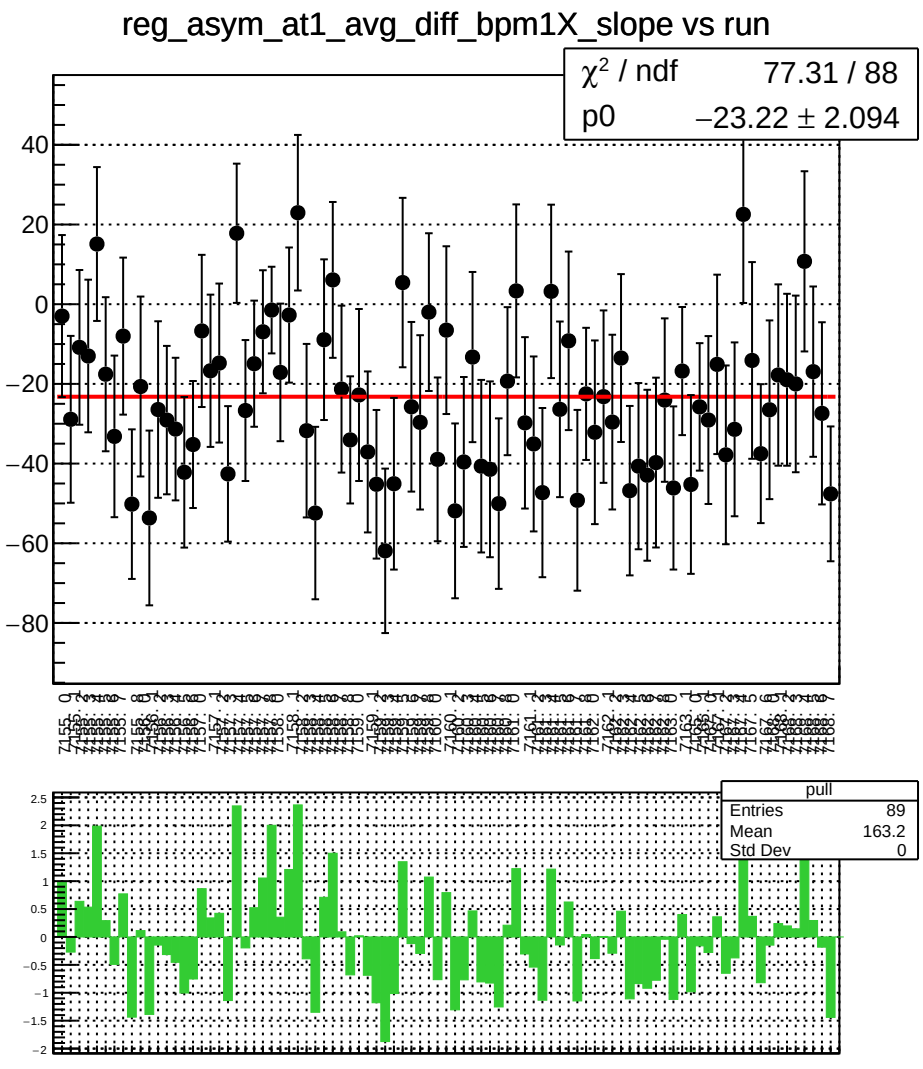

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.2 / 88
p0 −270.2 ± 7.582
−100
−150
−200
−250
−300
−350
−400
−450
pull
Entries 89
Mean 231.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

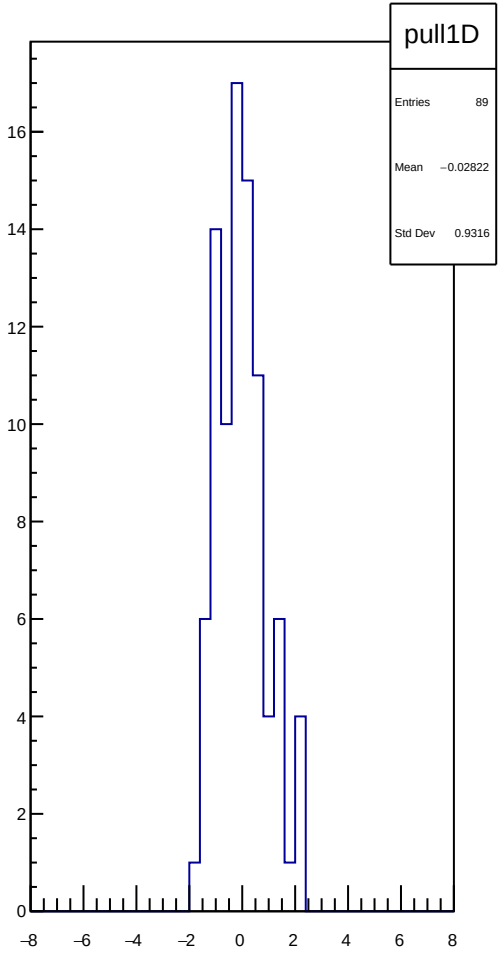

pull1D
Entries 89
Mean −0.05404
Std Dev 0.599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

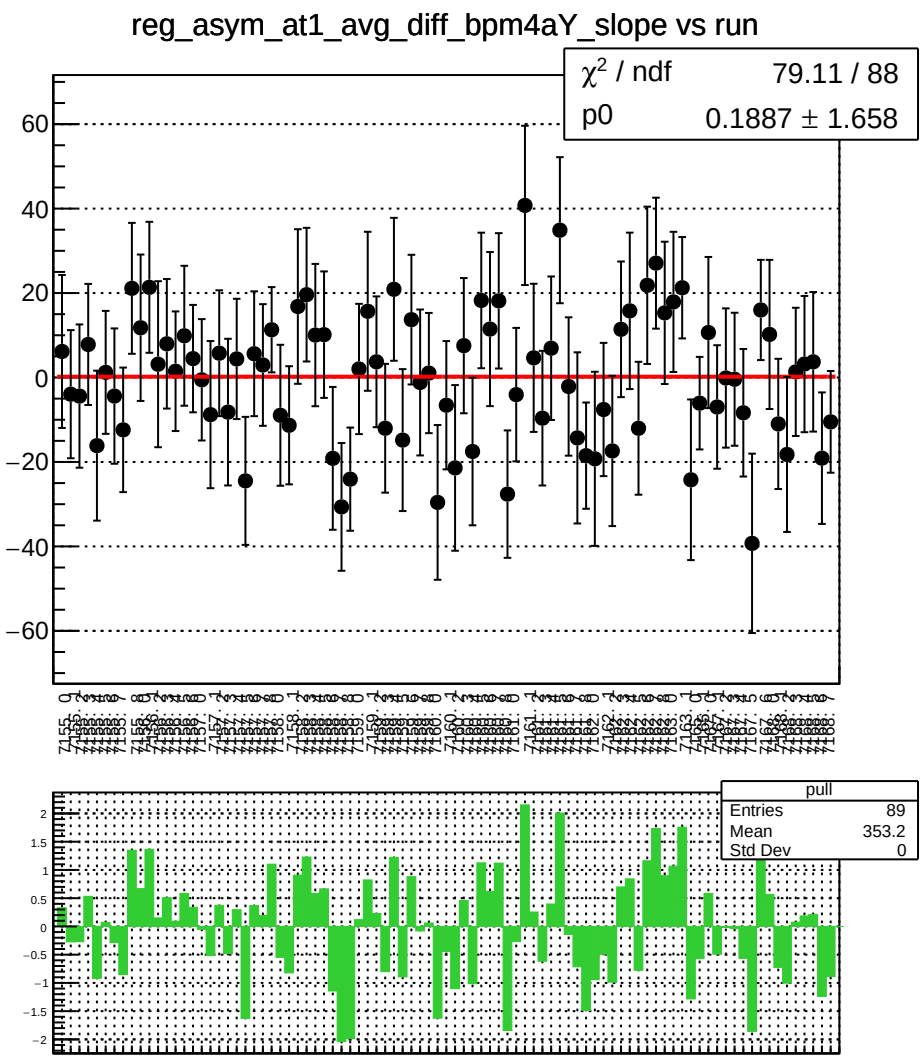

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.62 / 88
p0 −84.85 ± 6.868
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 491.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.01675
Std Dev 0.4186
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

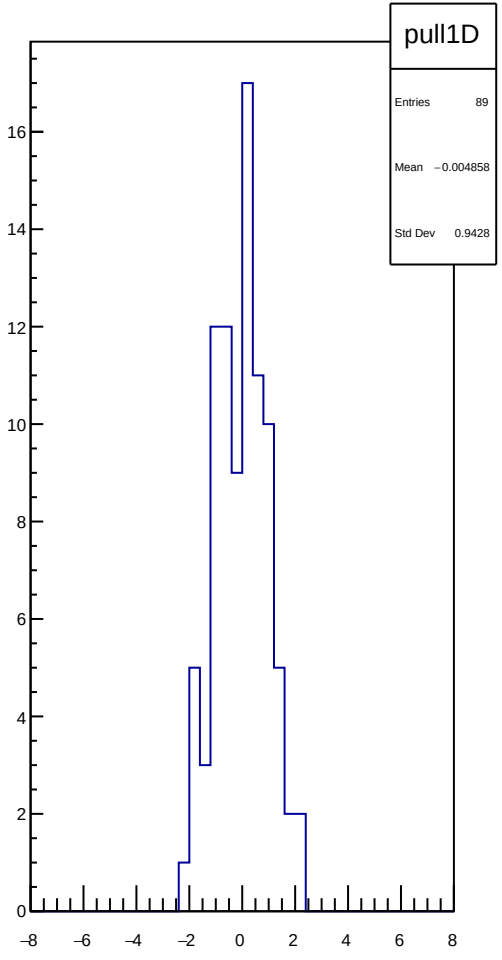

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 7.017 / 88
p0 114.3 ± 0.2606
pull
Entries 89
Mean 25.79
Std Dev 58.38

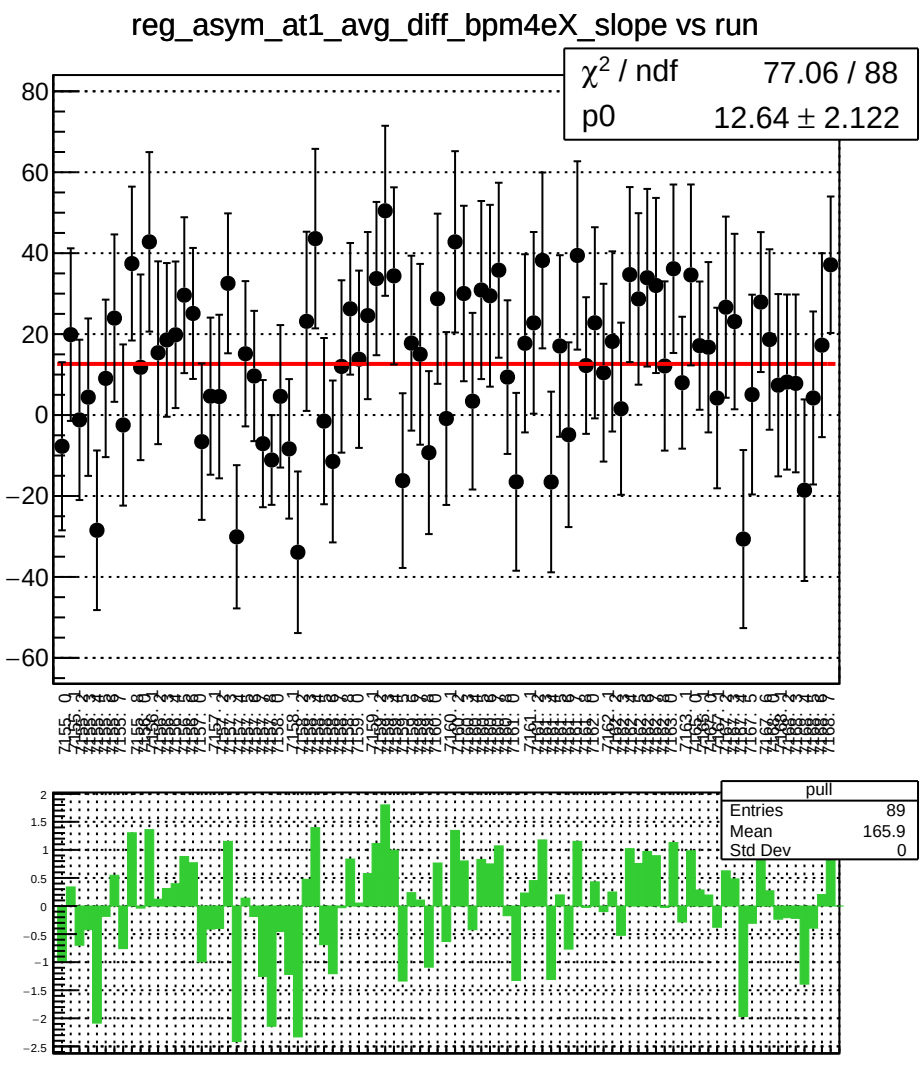

pull1D
Entries 89
Mean −0.005061
Std Dev 0.2807

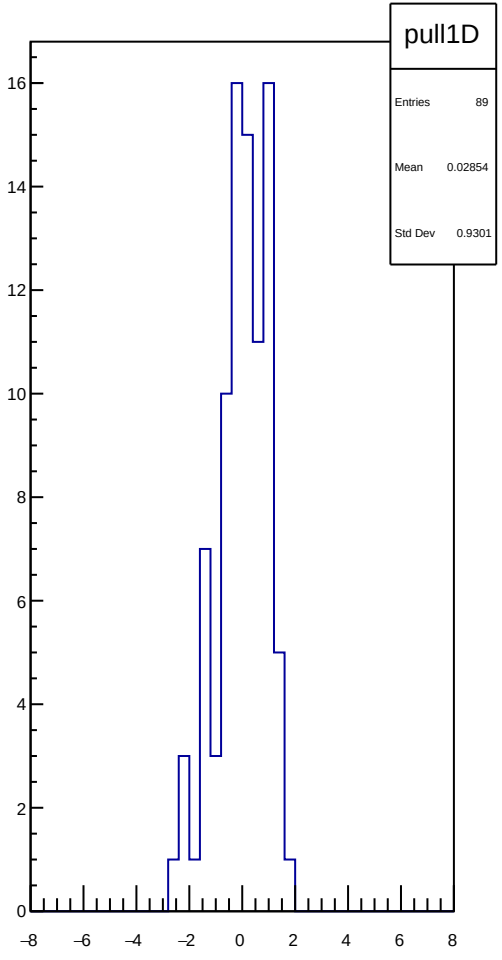

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 77.31 / 88
p0 −23.22 ± 2.094
pull
Entries 89
Mean 163.2
Std Dev 0

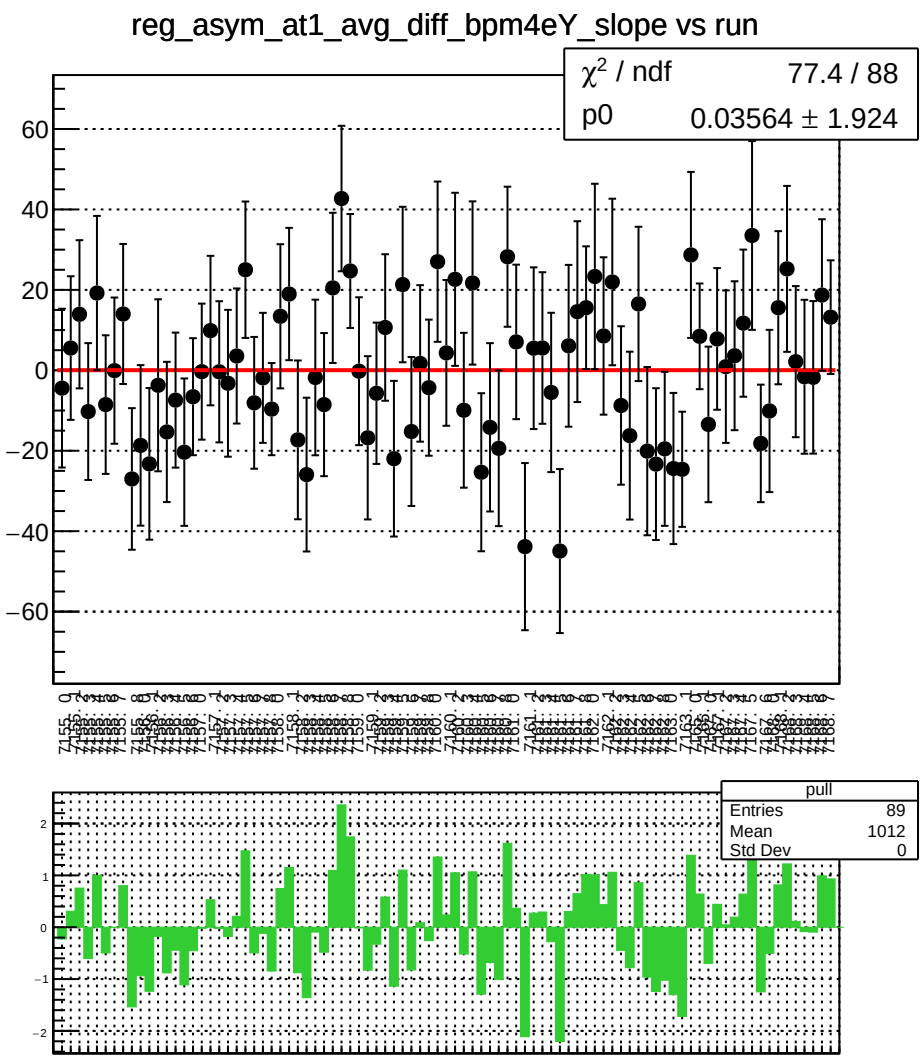

pull1D
Entries 89
Mean −0.02822
Std Dev 0.9316

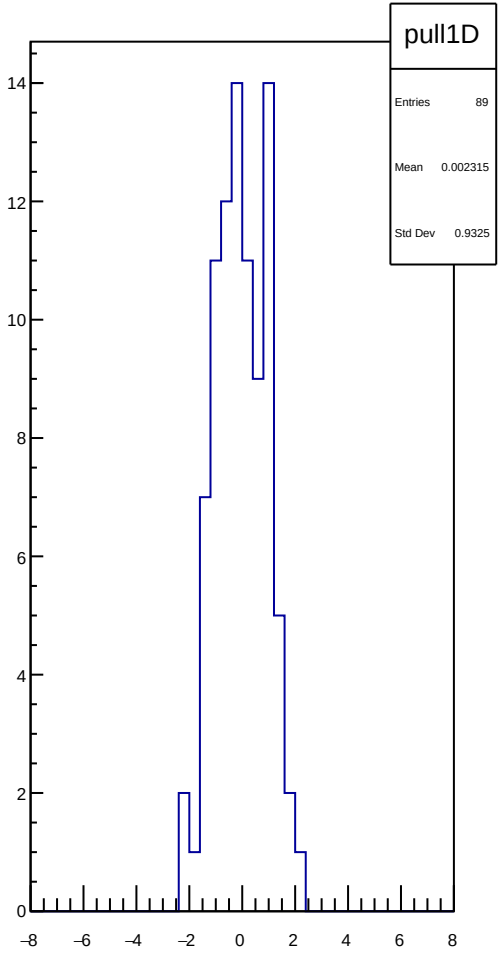

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 79.11 / 88
p0 0.1887 ± 1.658
pull
Entries 89
Mean 353.2
Std Dev 0

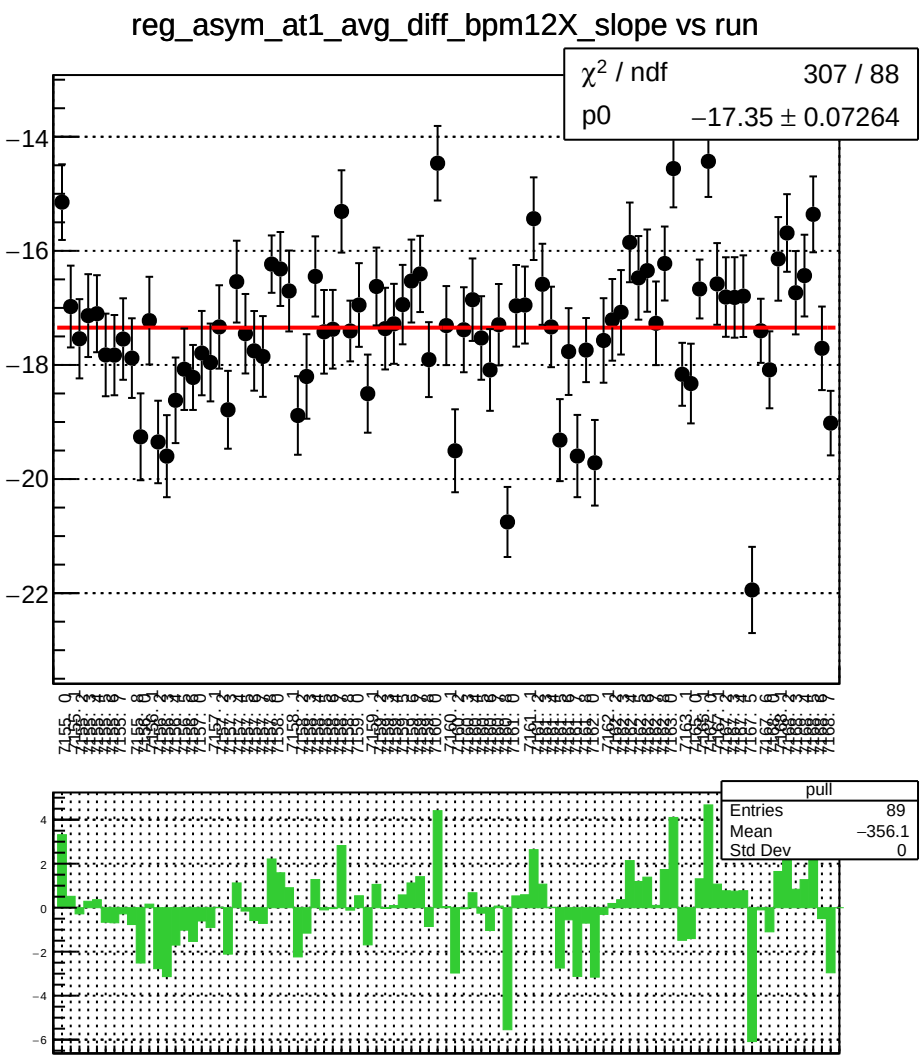

pull1D
Entries 89
Mean −0.004858
Std Dev 0.9428

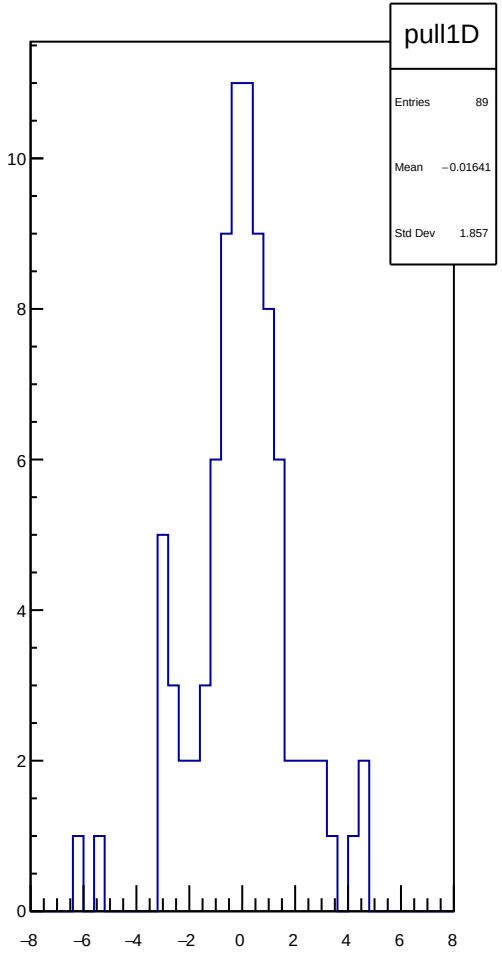

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.06 / 88
p0 12.64 ± 2.122
pull
Entries 89
Mean 165.9
Std Dev 0

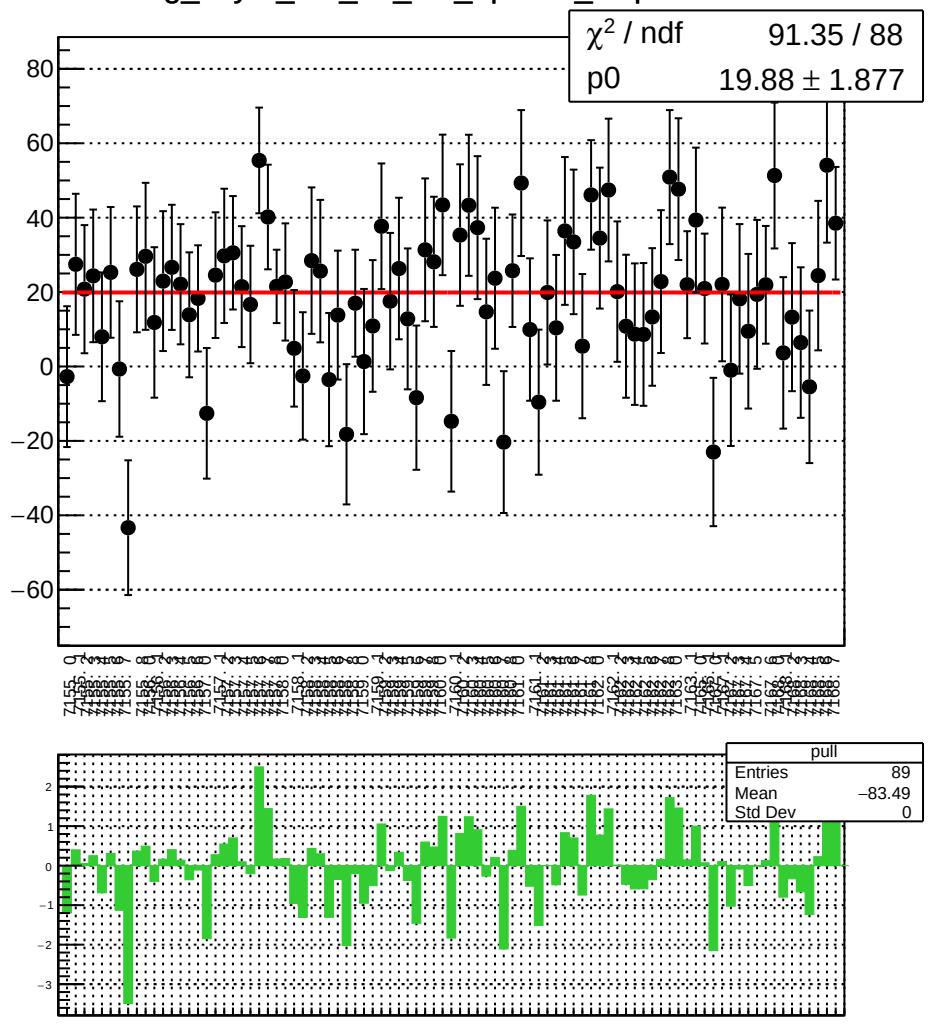

pull1D
Entries 89
Mean 0.02854
Std Dev 0.9301

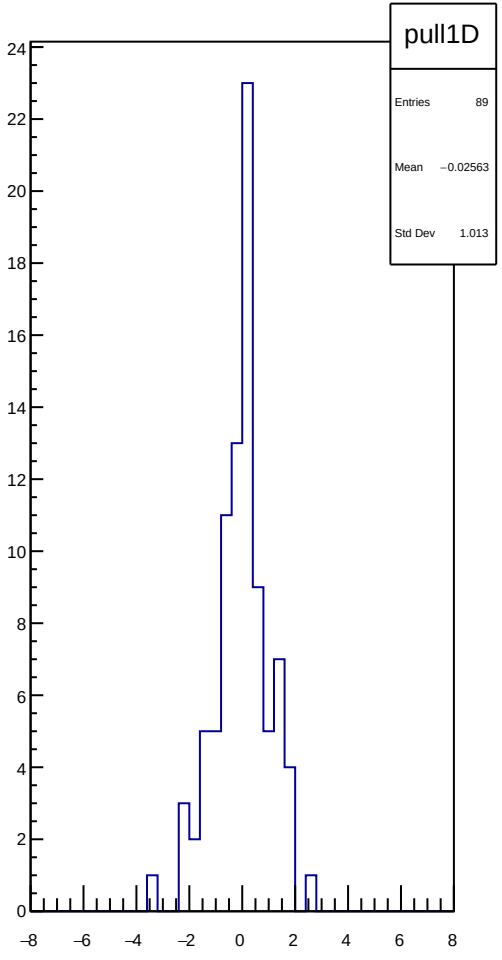

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.4 / 88
p0 0.03564 ± 1.924
pull
Entries 89
Mean 1012
Std Dev 0

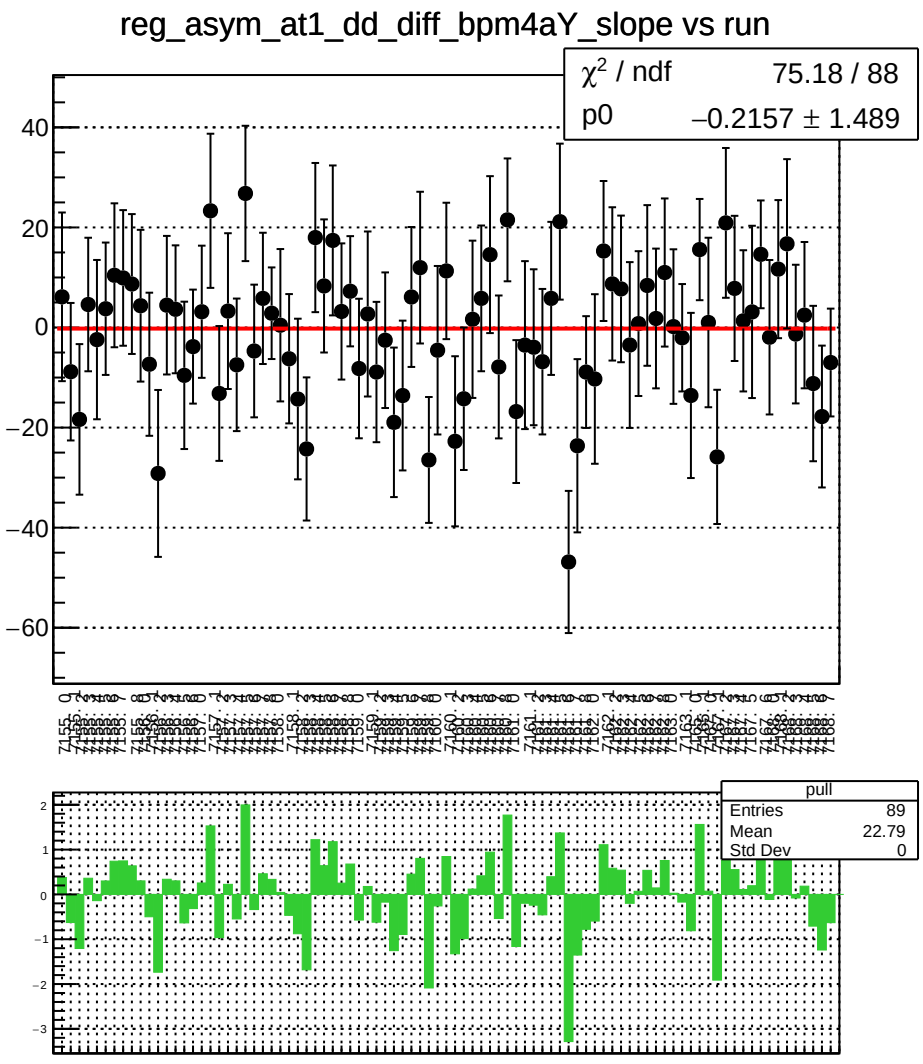

pull1D
Entries 89
Mean 0.002315
Std Dev 0.9325

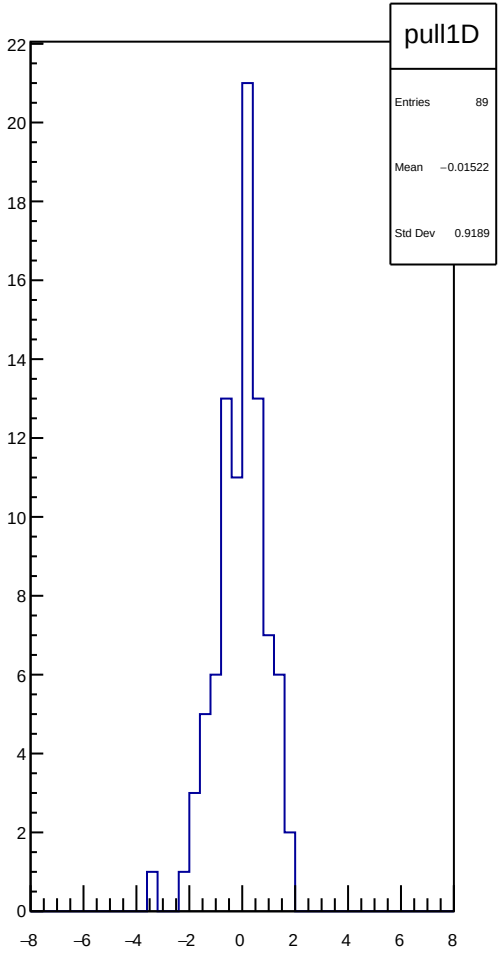

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 307 / 88
p0 −17.35 ± 0.07264
−14
−16
−18
−20
−22
pull
Entries 89
Mean −356.1
Std Dev 0
4
2
0
−2
−4
−6

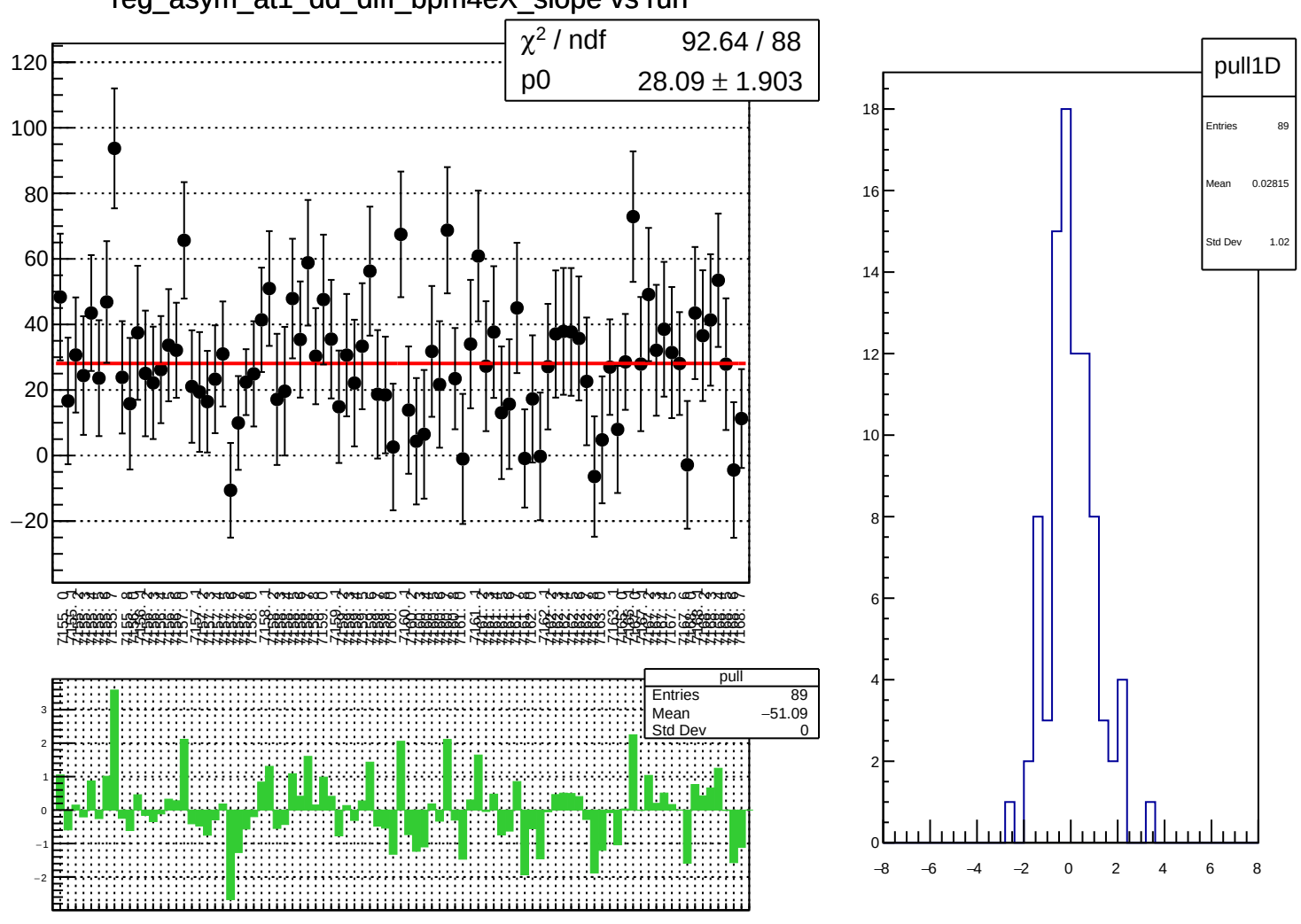

pull1D
Entries 89
Mean −0.01641
Std Dev 1.857
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

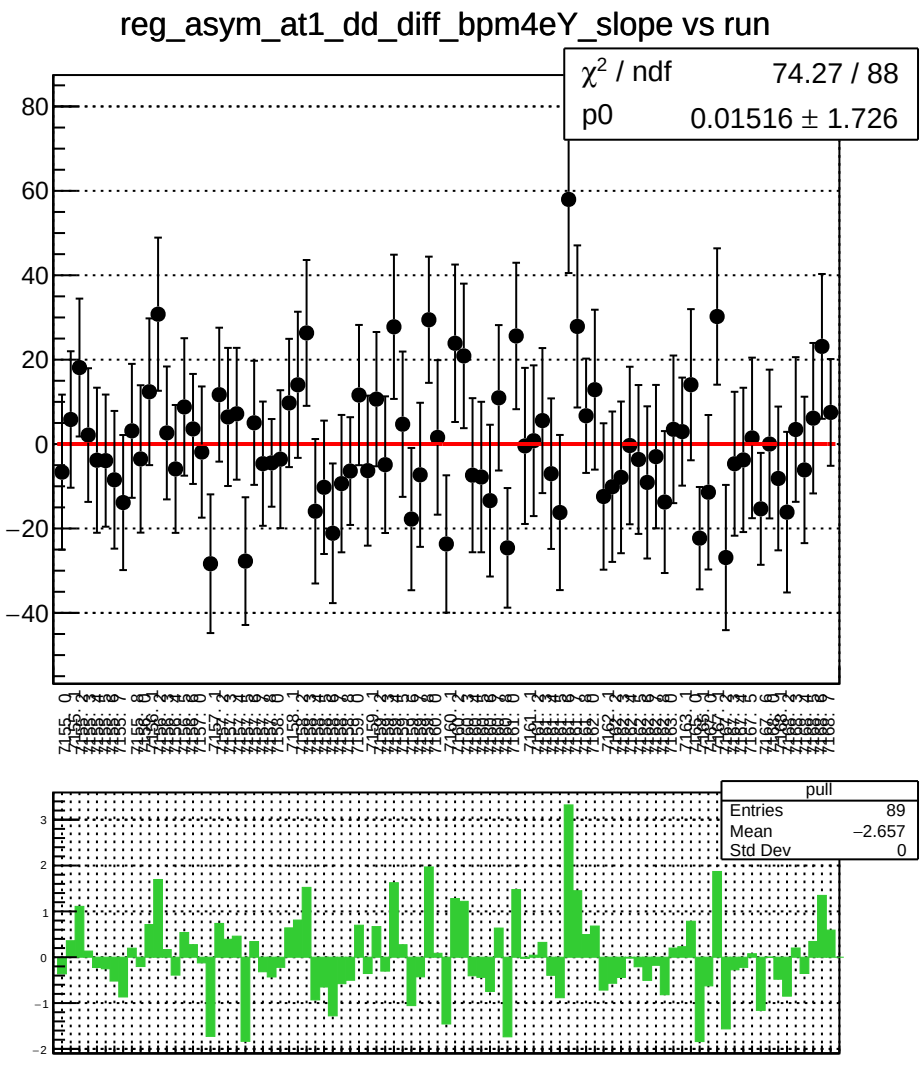

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 91.35 / 88
p0 19.88 ± 1.877
pull
Entries 89
Mean −83.49
Std Dev 0

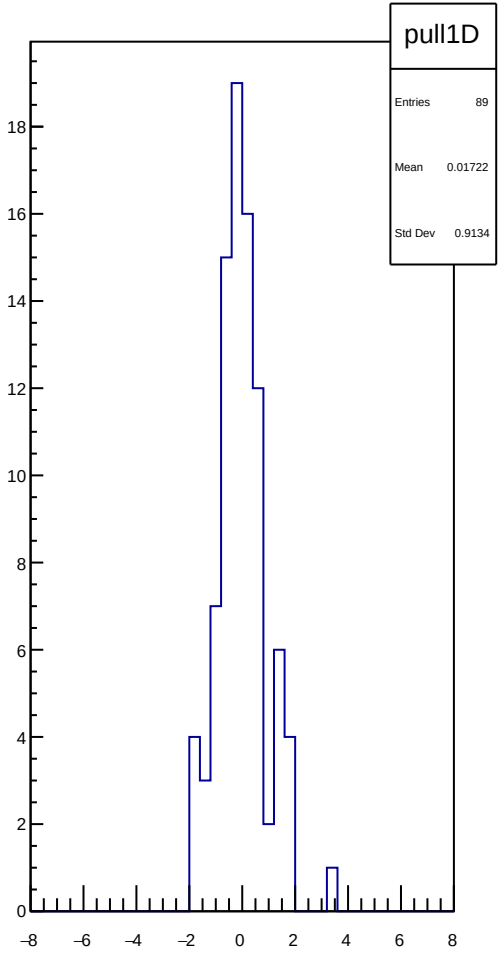

pull1D
Entries 89
Mean −0.02563
Std Dev 1.013

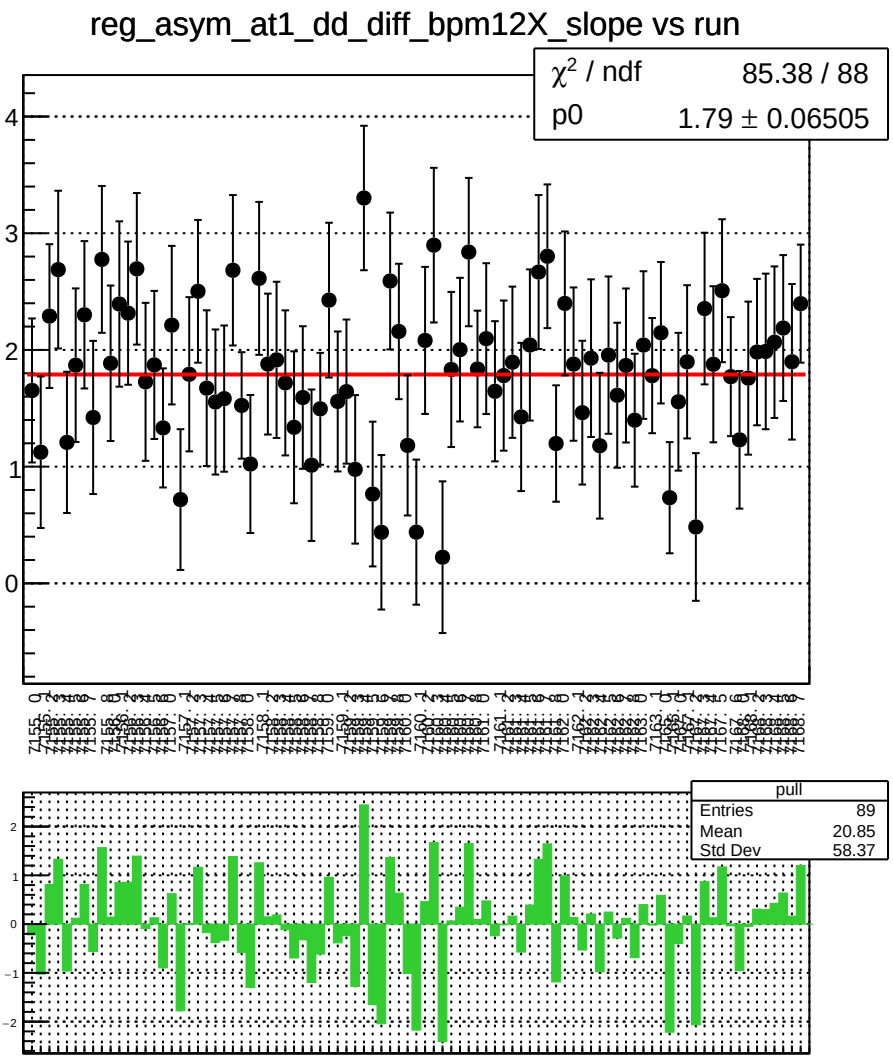

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.18 / 88
p0 −0.2157 ± 1.489
pull
Entries 89
Mean 22.79
Std Dev 0

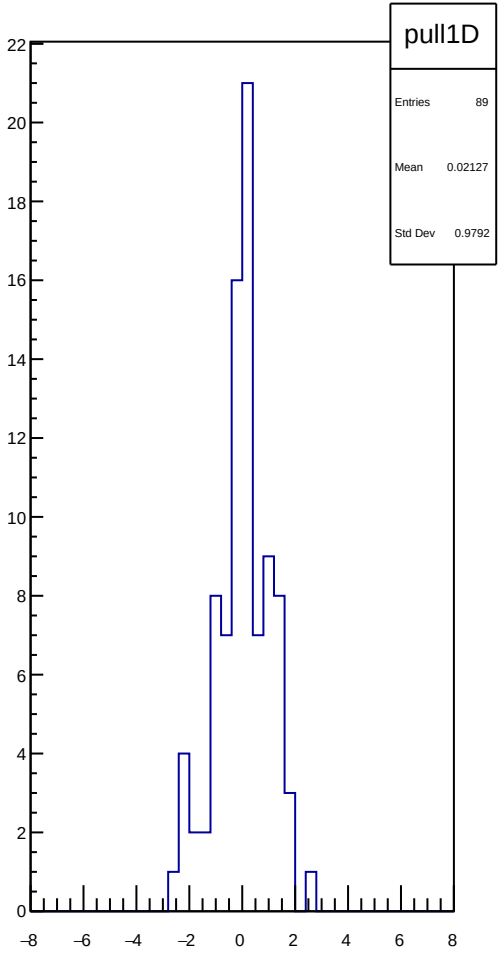

pull1D
Entries 89
Mean −0.01522
Std Dev 0.9189

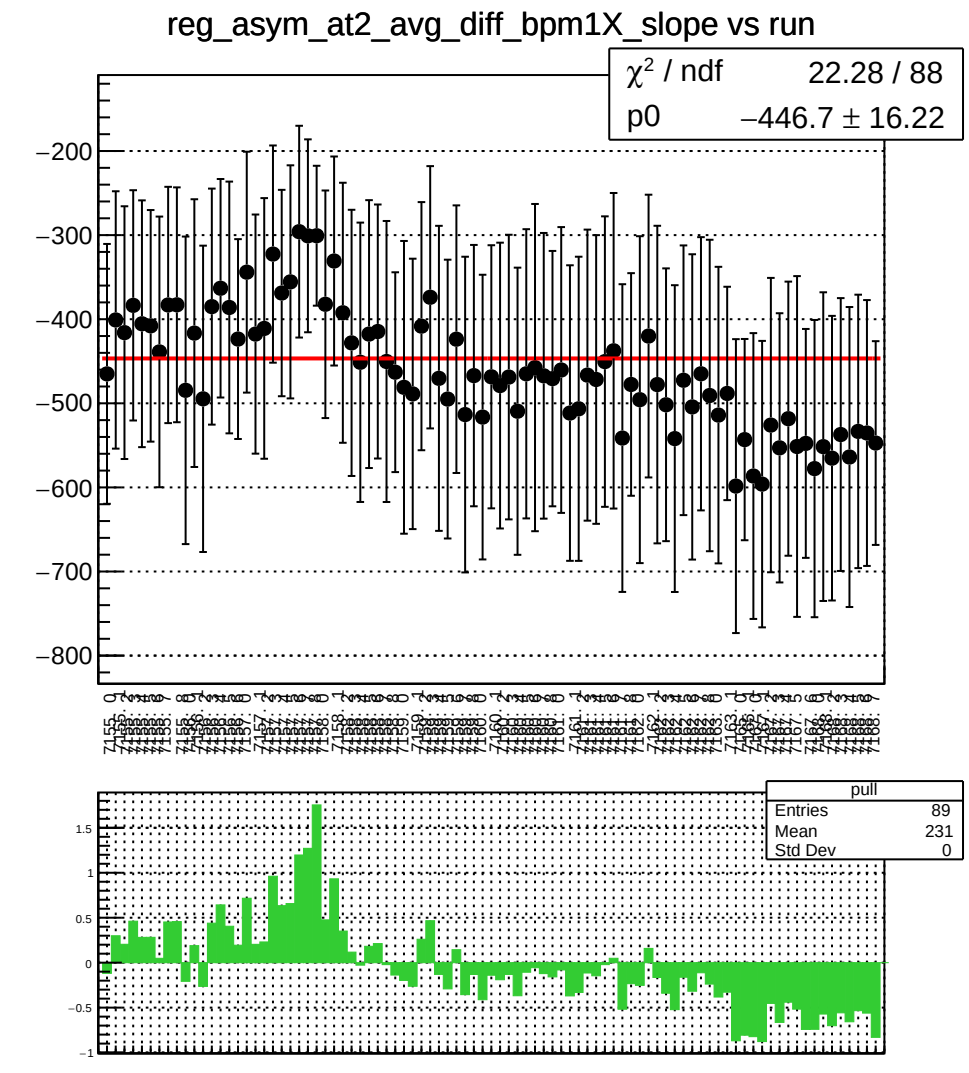

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.64 / 88
p0 28.09 ± 1.903
pull
Entries 89
Mean −51.09
Std Dev 0
pull1D
Entries 89
Mean 0.02815
Std Dev 1.02

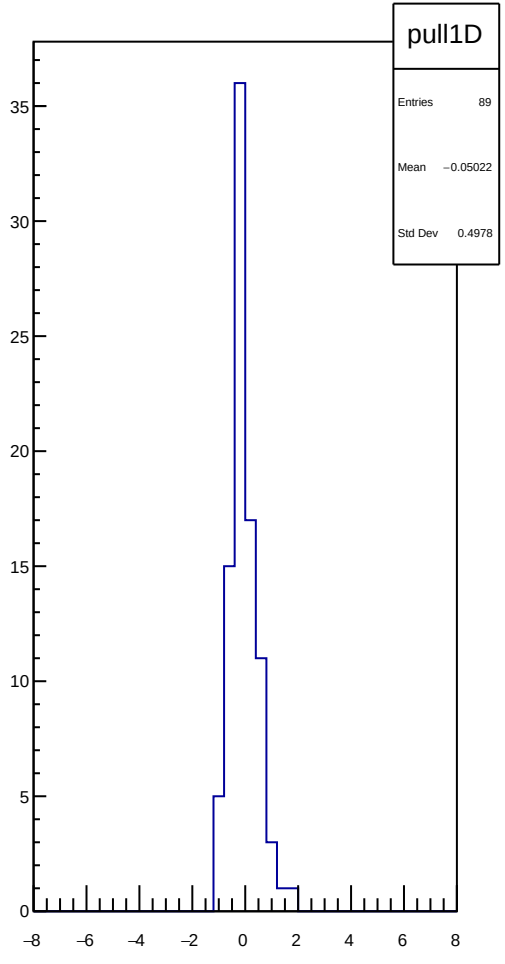

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.27 / 88
p0 0.01516 ± 1.726
pull
Entries 89
Mean −2.657
Std Dev 0

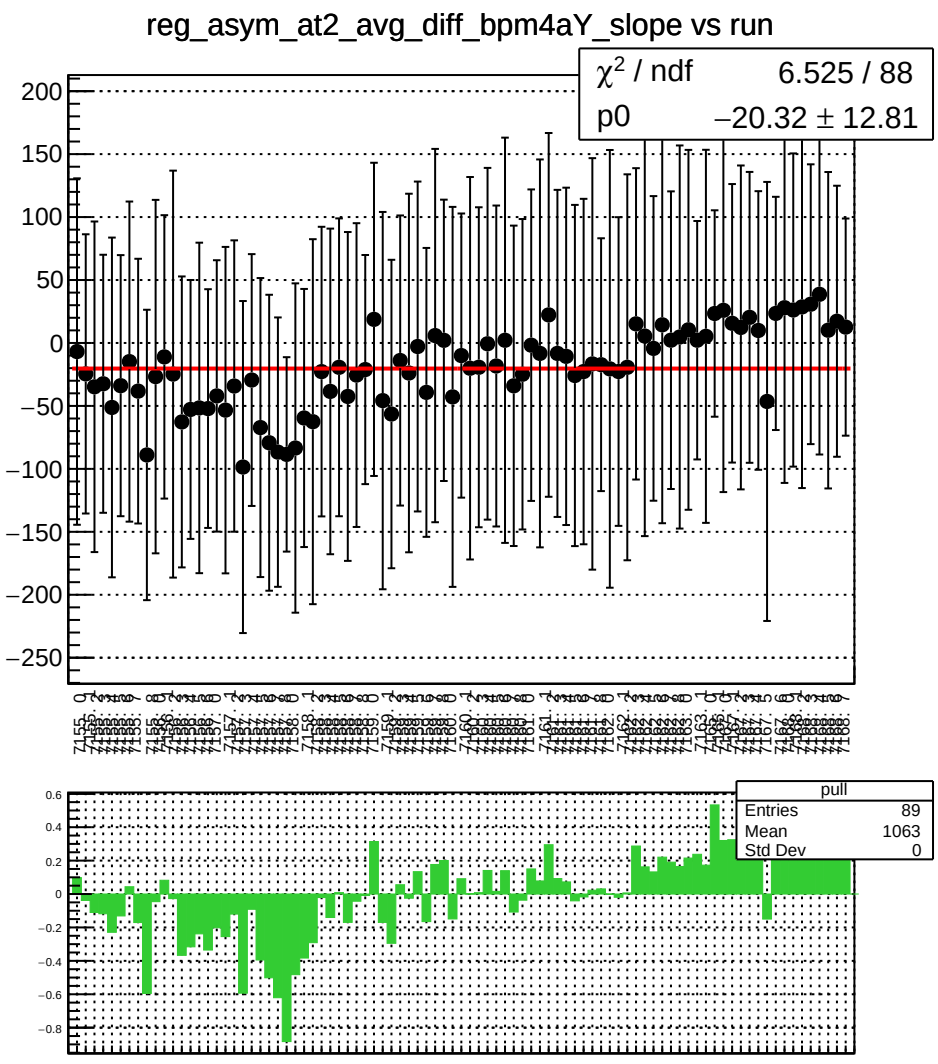

pull1D
Entries 89
Mean 0.01722
Std Dev 0.9134

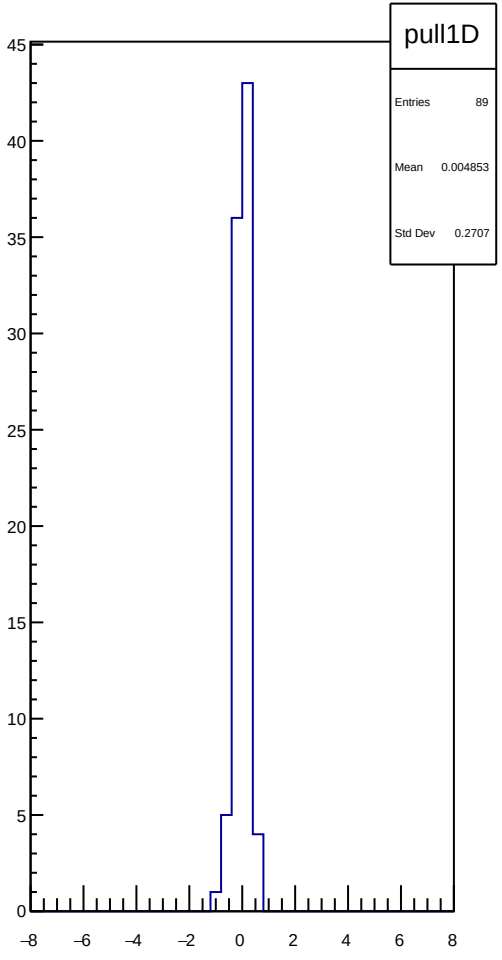

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 85.38 / 88
p0 1.79 ± 0.06505
pull
Entries 89
Mean 20.85
Std Dev 58.37

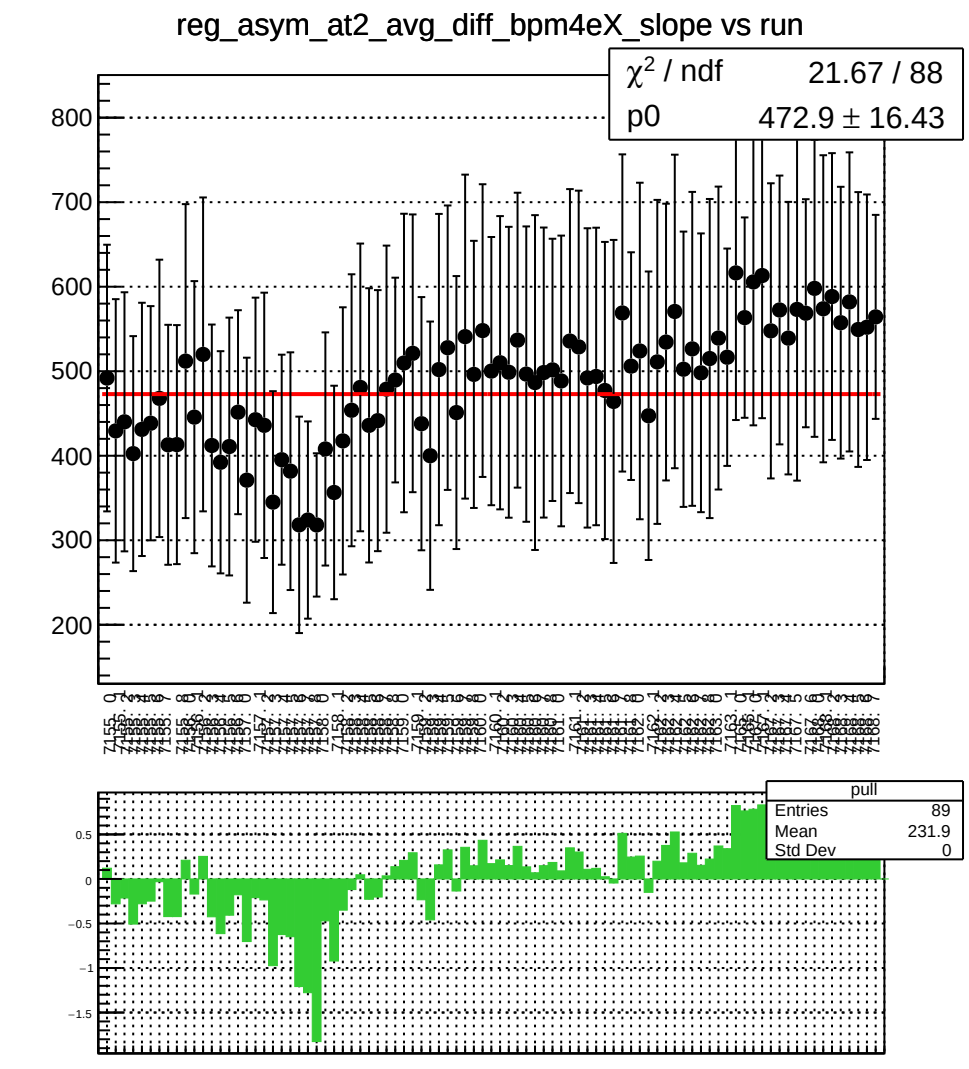

pull1D
Entries 89
Mean 0.02127
Std Dev 0.9792

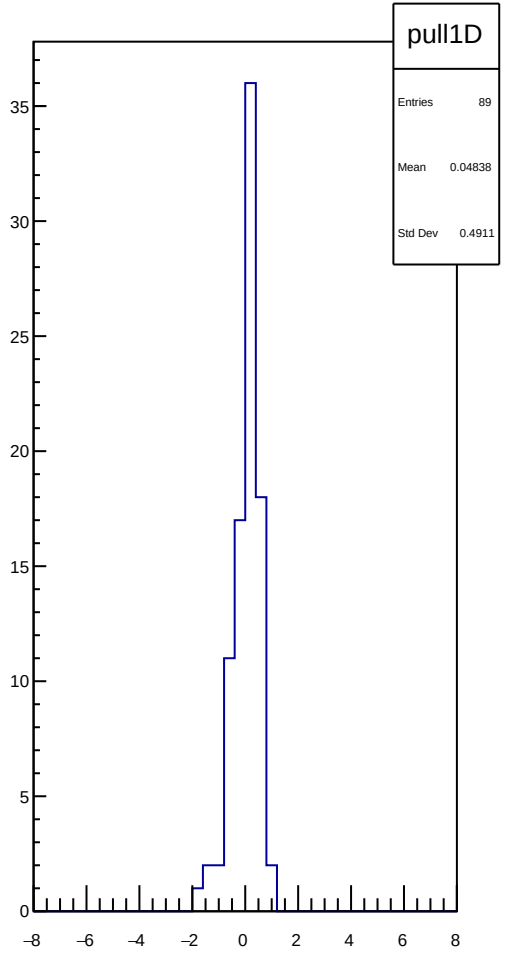

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 22.28 / 88
p0 −446.7 ± 16.22
pull
Entries 89
Mean 231
Std Dev 0

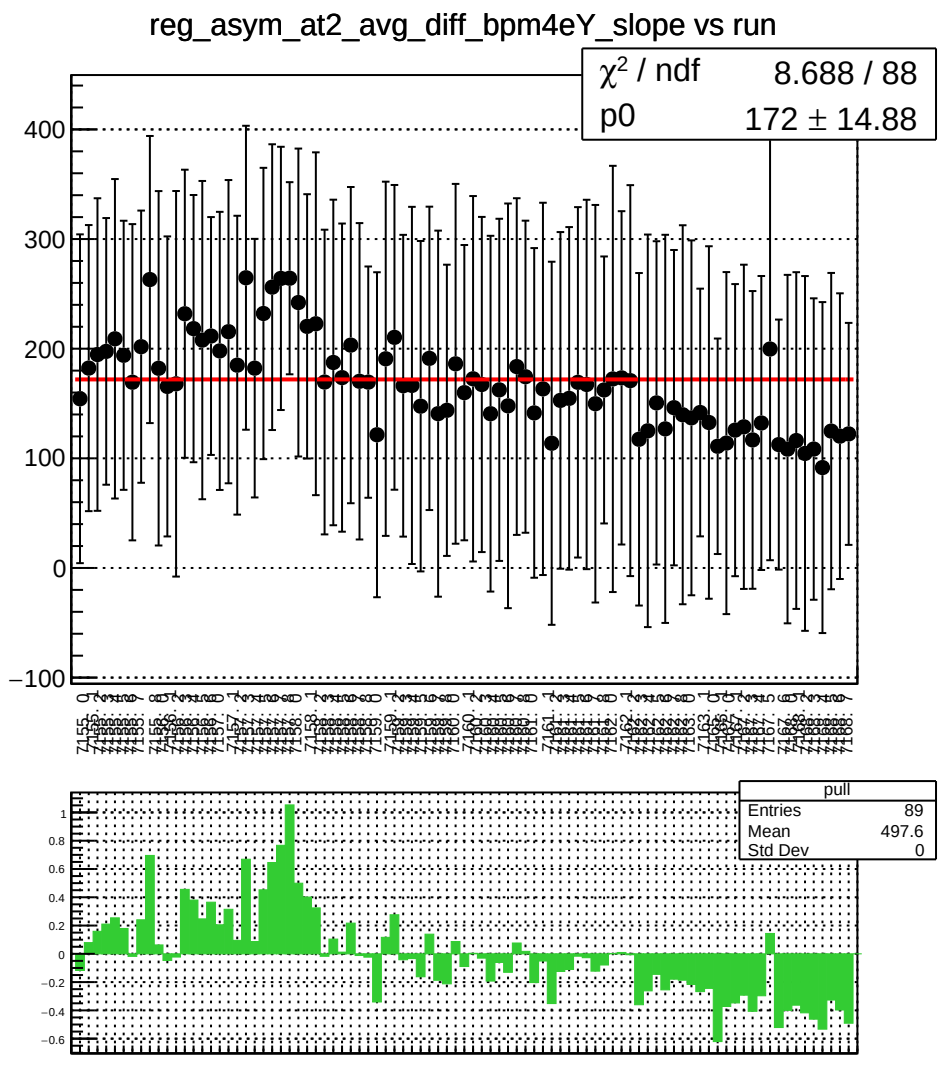

pull1D
Entries 89
Mean −0.05022
Std Dev 0.4978

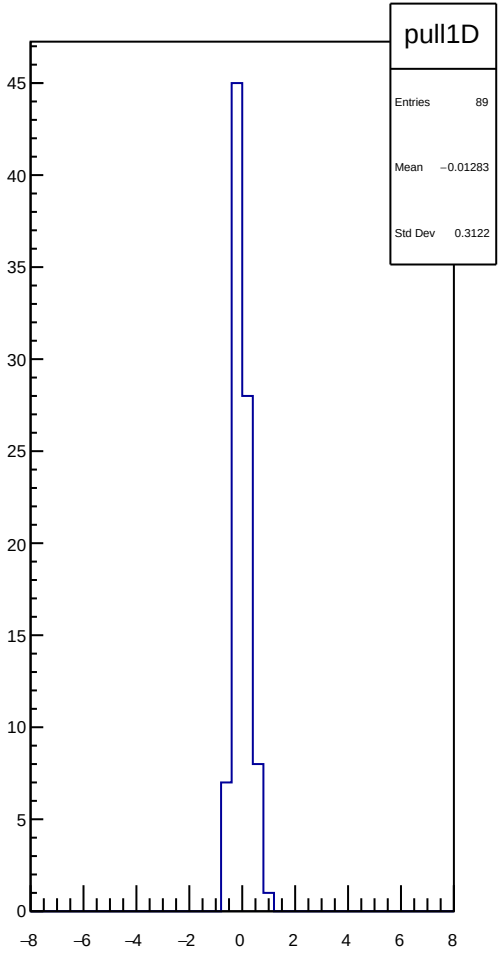

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.525 / 88
p0 −20.32 ± 12.81
pull
Entries 89
Mean 1063
Std Dev 0

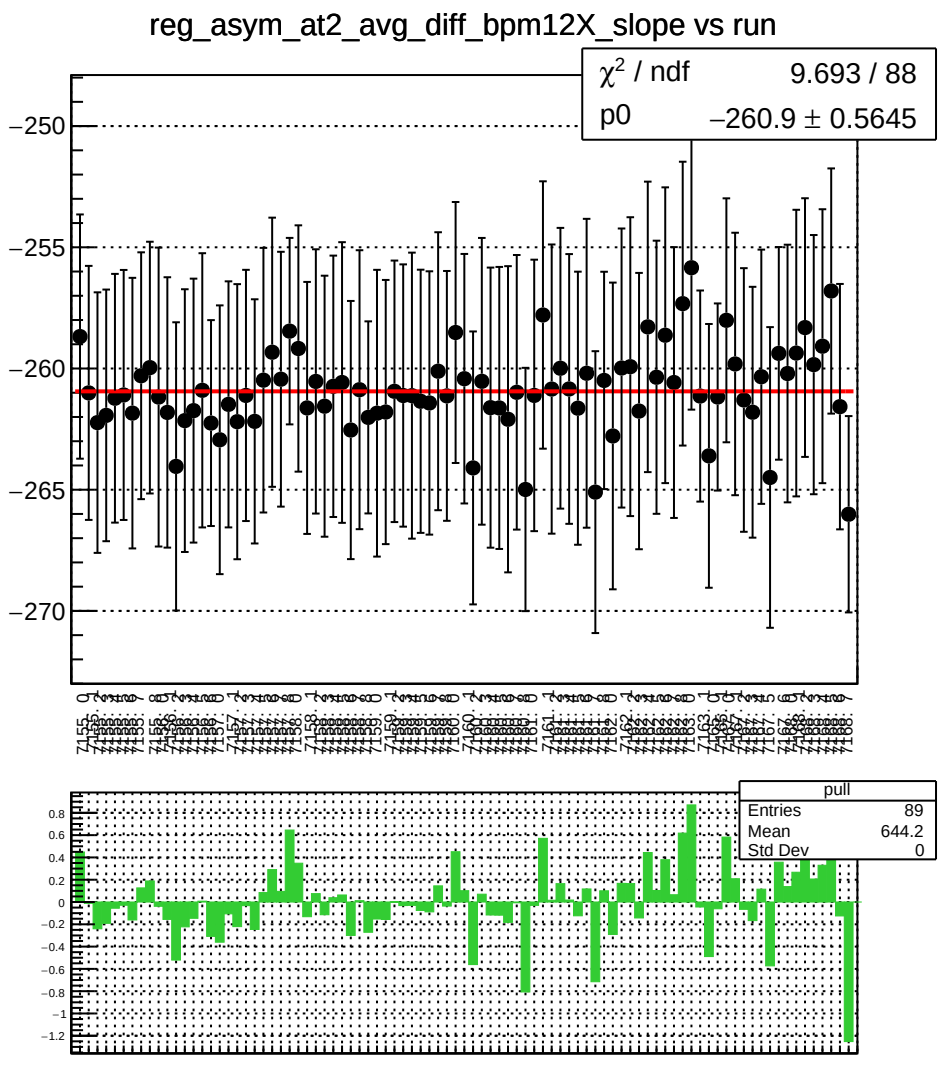

pull1D
Entries 89
Mean 0.004853
Std Dev 0.2707

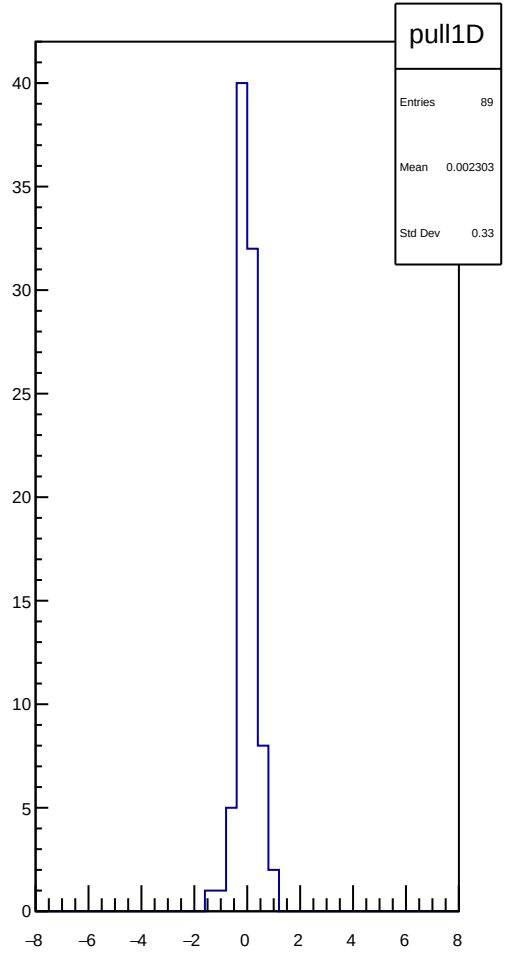

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 21.67 / 88
p0 472.9 ± 16.43
pull
Entries 89
Mean 231.9
Std Dev 0

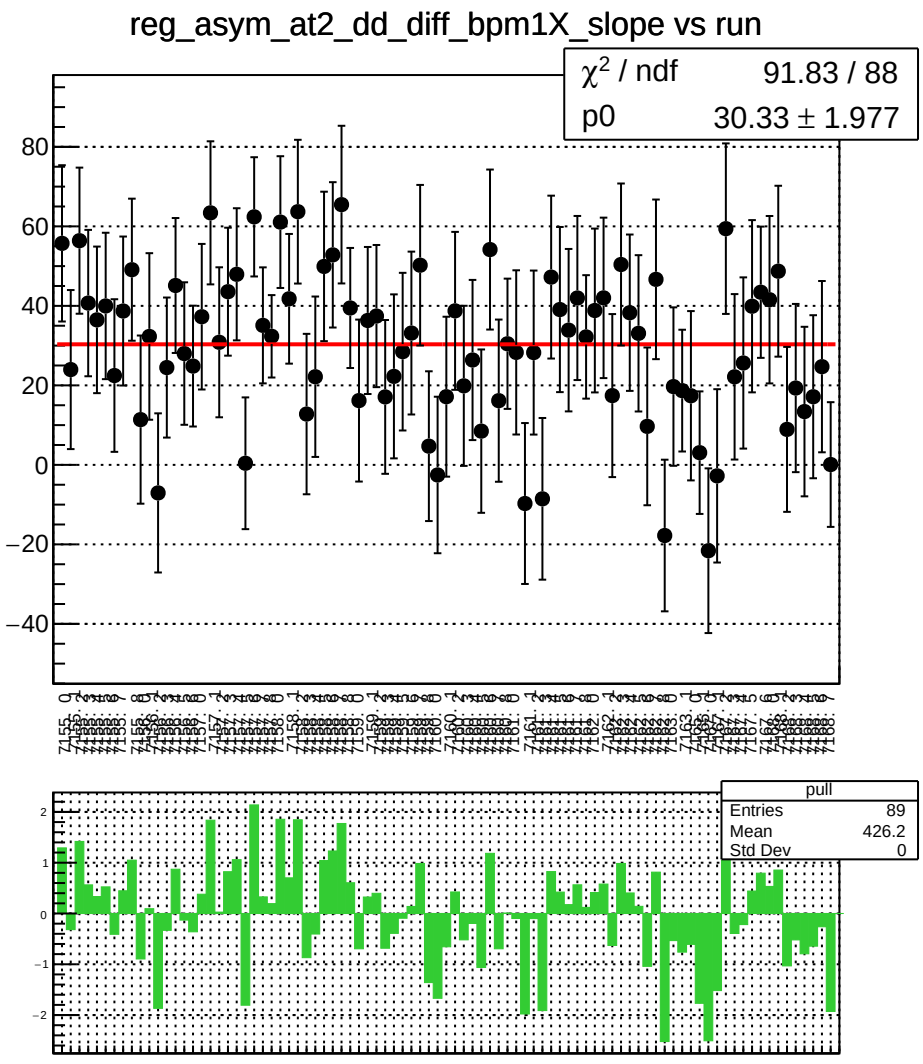

pull1D
Entries 89
Mean 0.04838
Std Dev 0.4911

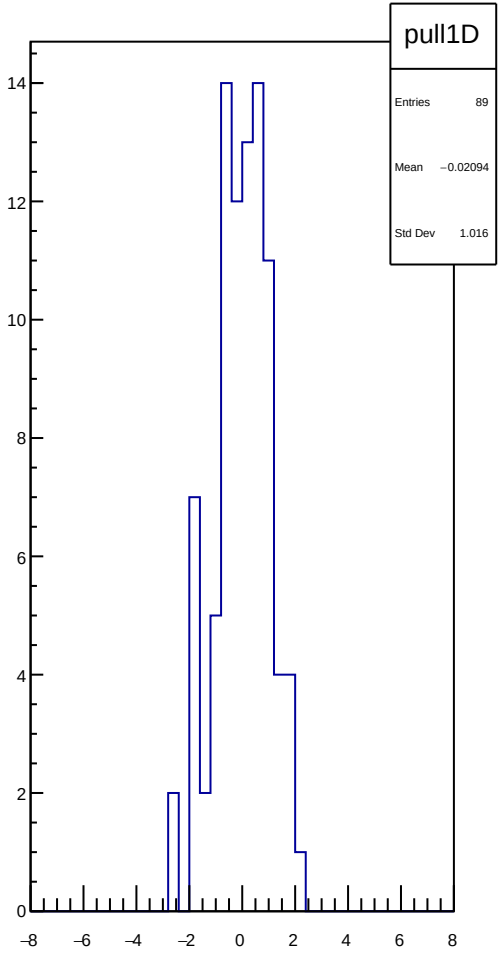

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.688 / 88
p0 172 ± 14.88
pull
Entries 89
Mean 497.6
Std Dev 0

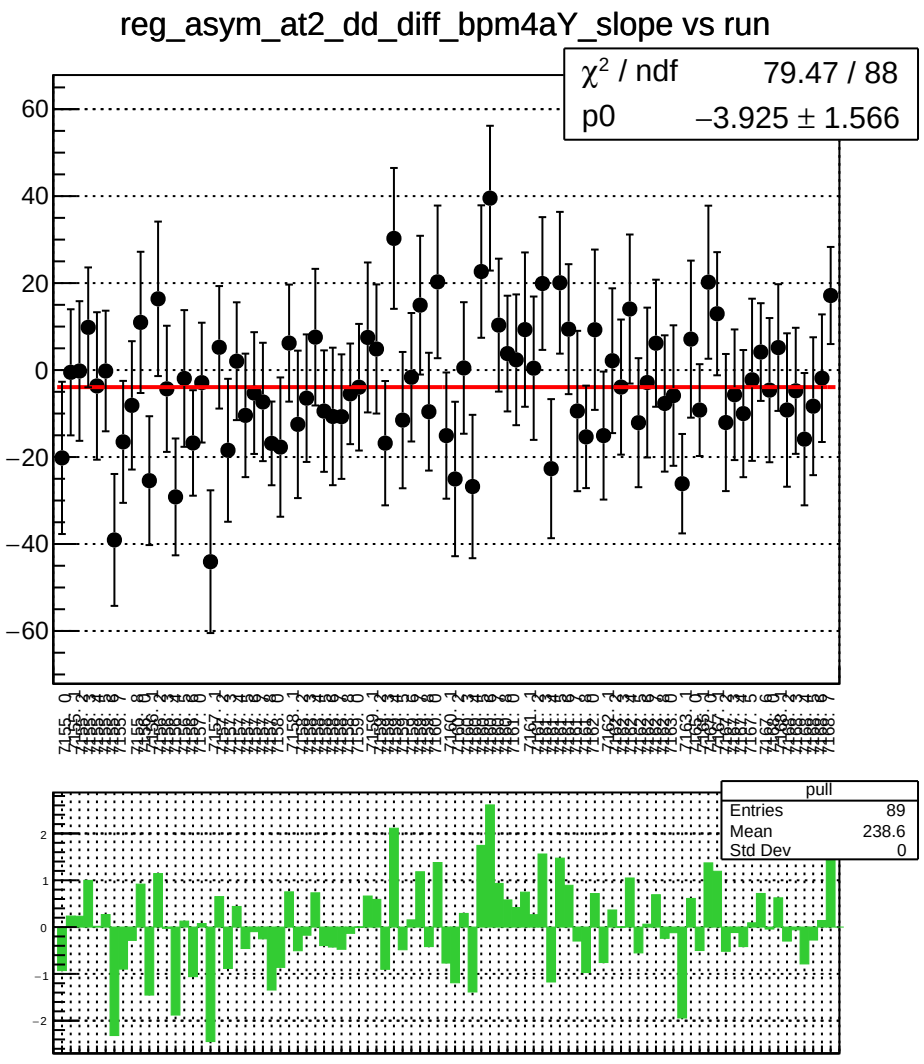

pull1D
Entries 89
Mean −0.01283
Std Dev 0.3122

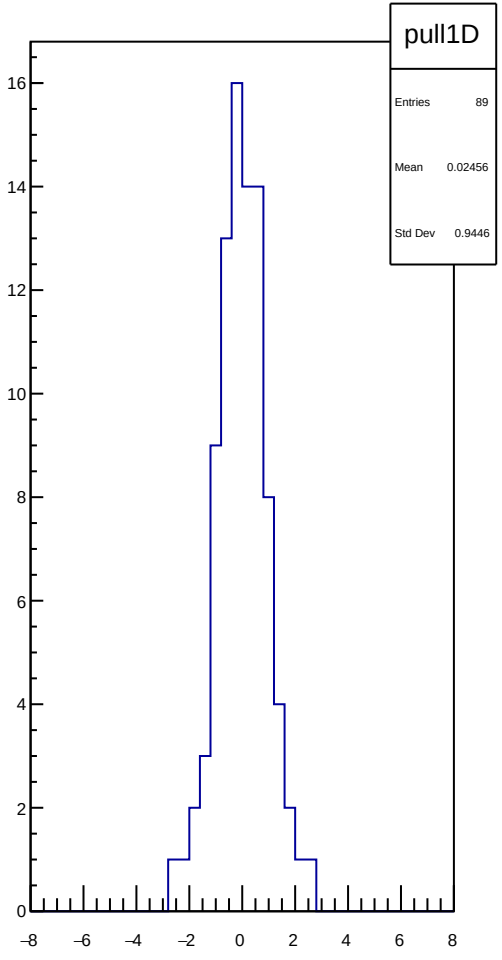

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ^2 / ndf 9.693 / 88
p0 −260.9 ± 0.5645
−250
−255
−260
−265
−270
pull
Entries 89
Mean 644.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

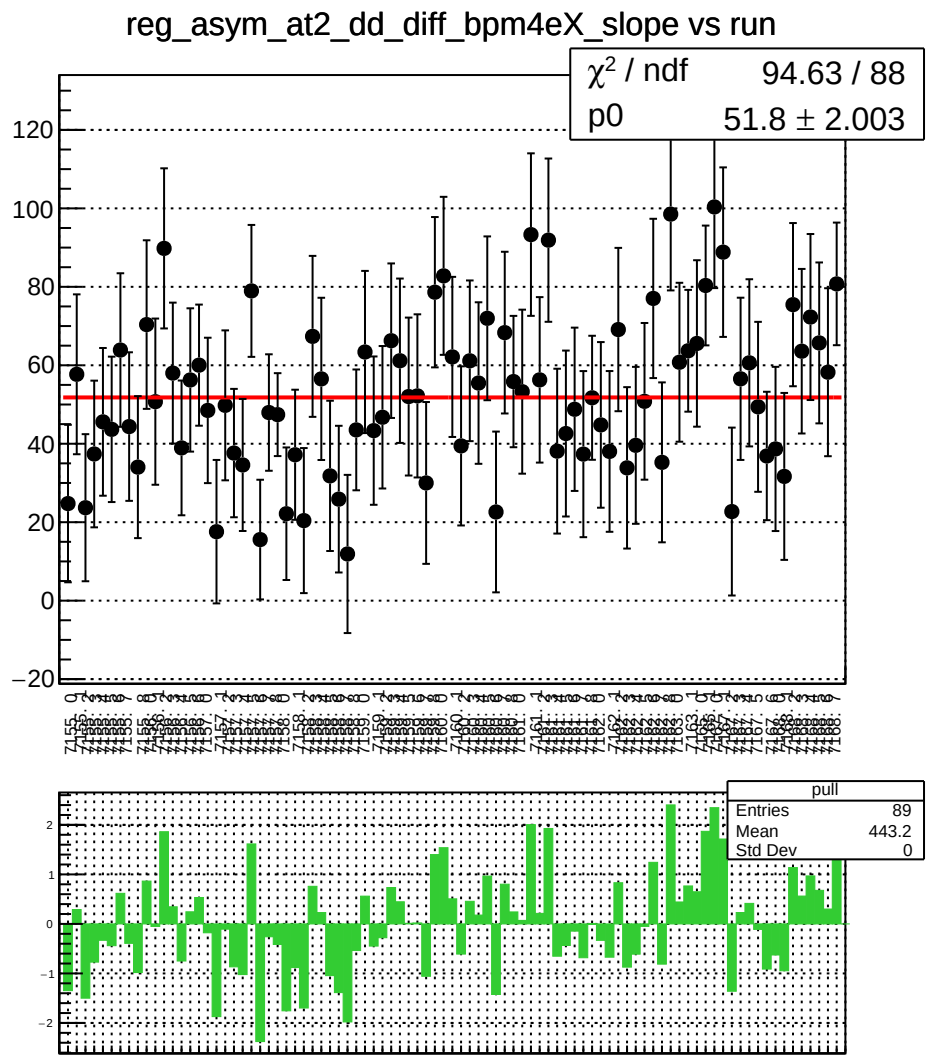

pull1D
Entries 89
Mean 0.002303
Std Dev 0.33
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

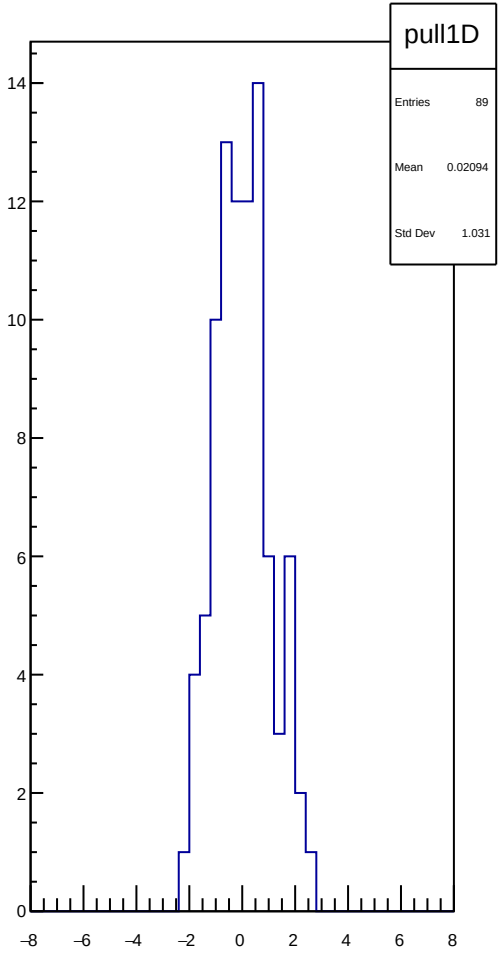

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 91.83 / 88
p0 30.33 ± 1.977
pull
Entries 89
Mean 426.2
Std Dev 0

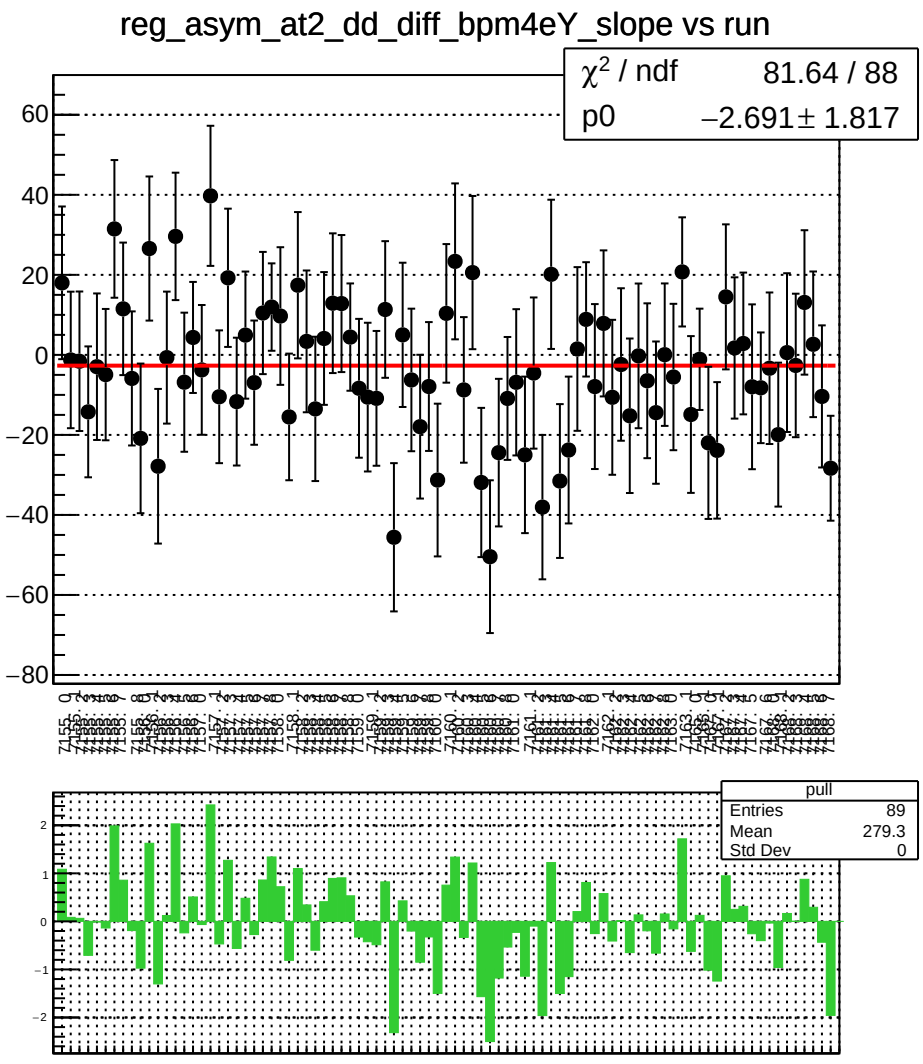

pull1D
Entries 89
Mean −0.02094
Std Dev 1.016

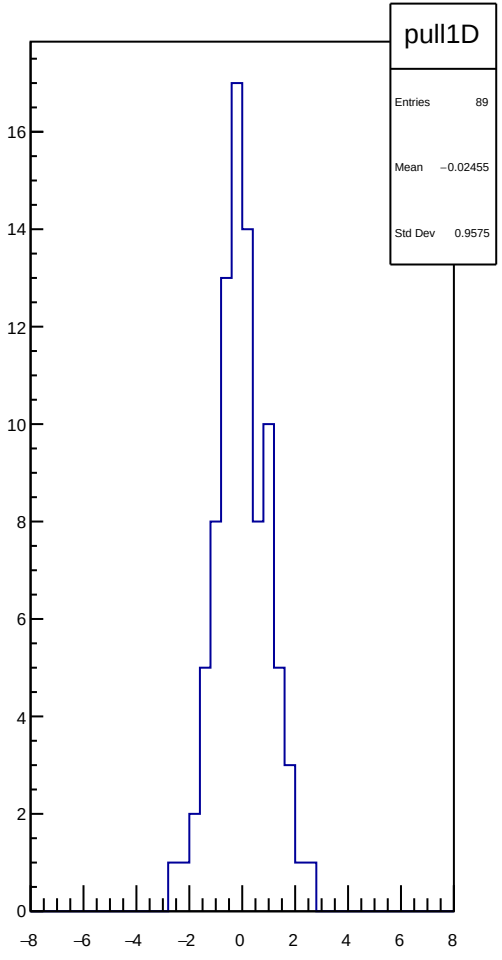

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.47 / 88
p0 −3.925 ± 1.566
pull
Entries 89
Mean 238.6
Std Dev 0

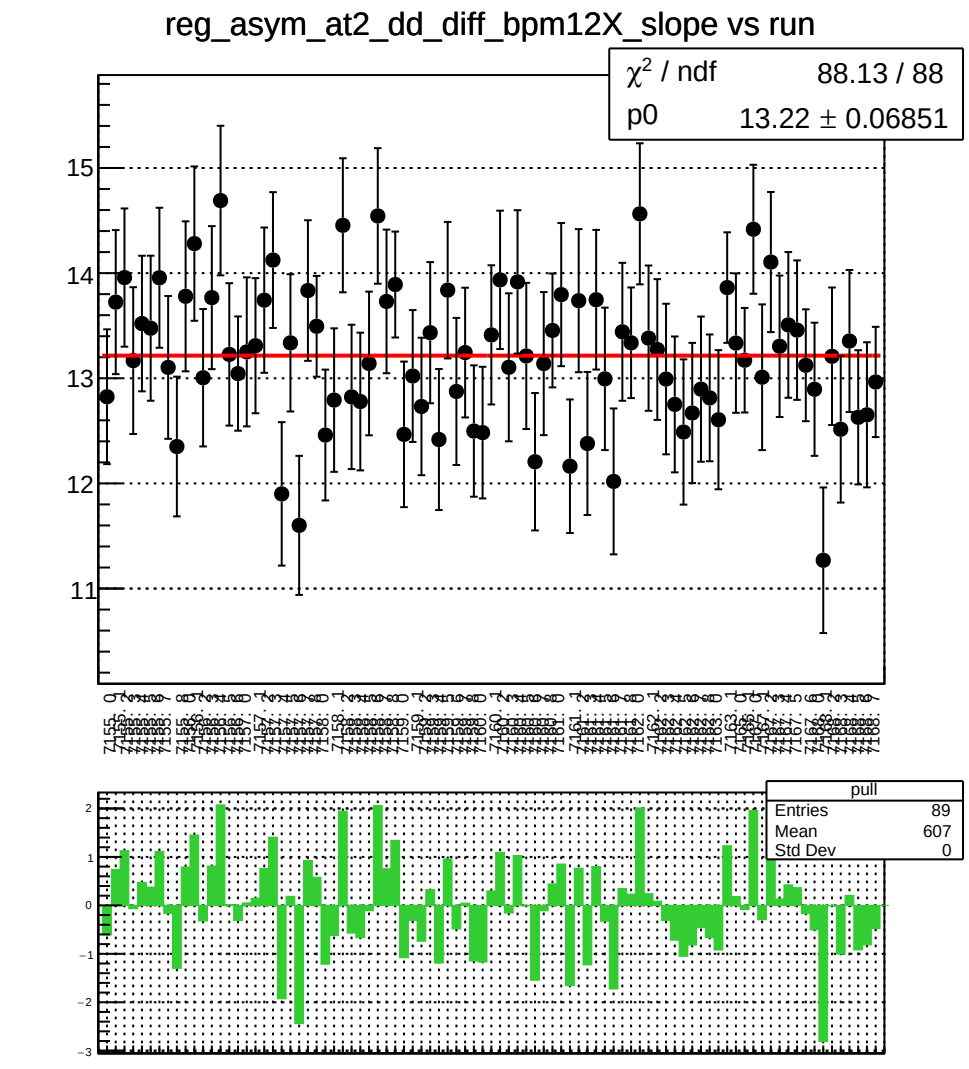

pull1D
Entries 89
Mean 0.02456
Std Dev 0.9446

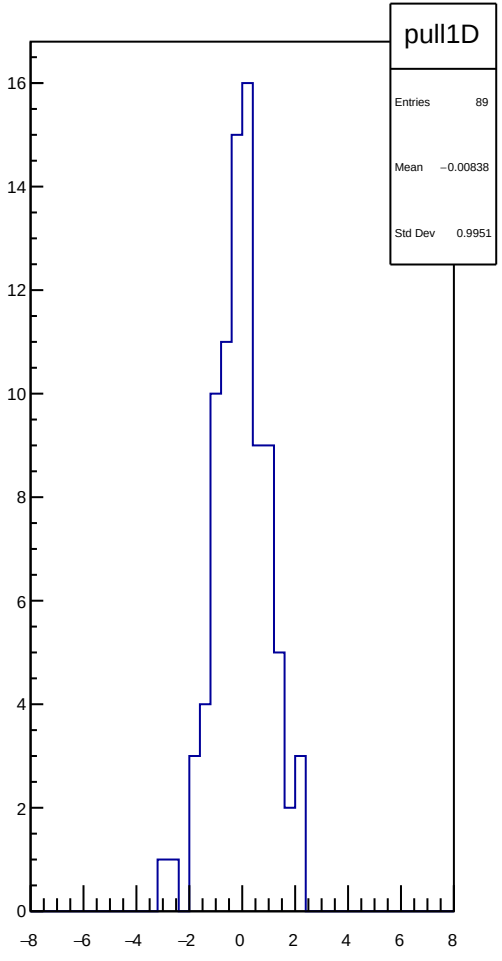

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 94.63 / 88
p0 51.8 ± 2.003
pull
Entries 89
Mean 443.2
Std Dev 0

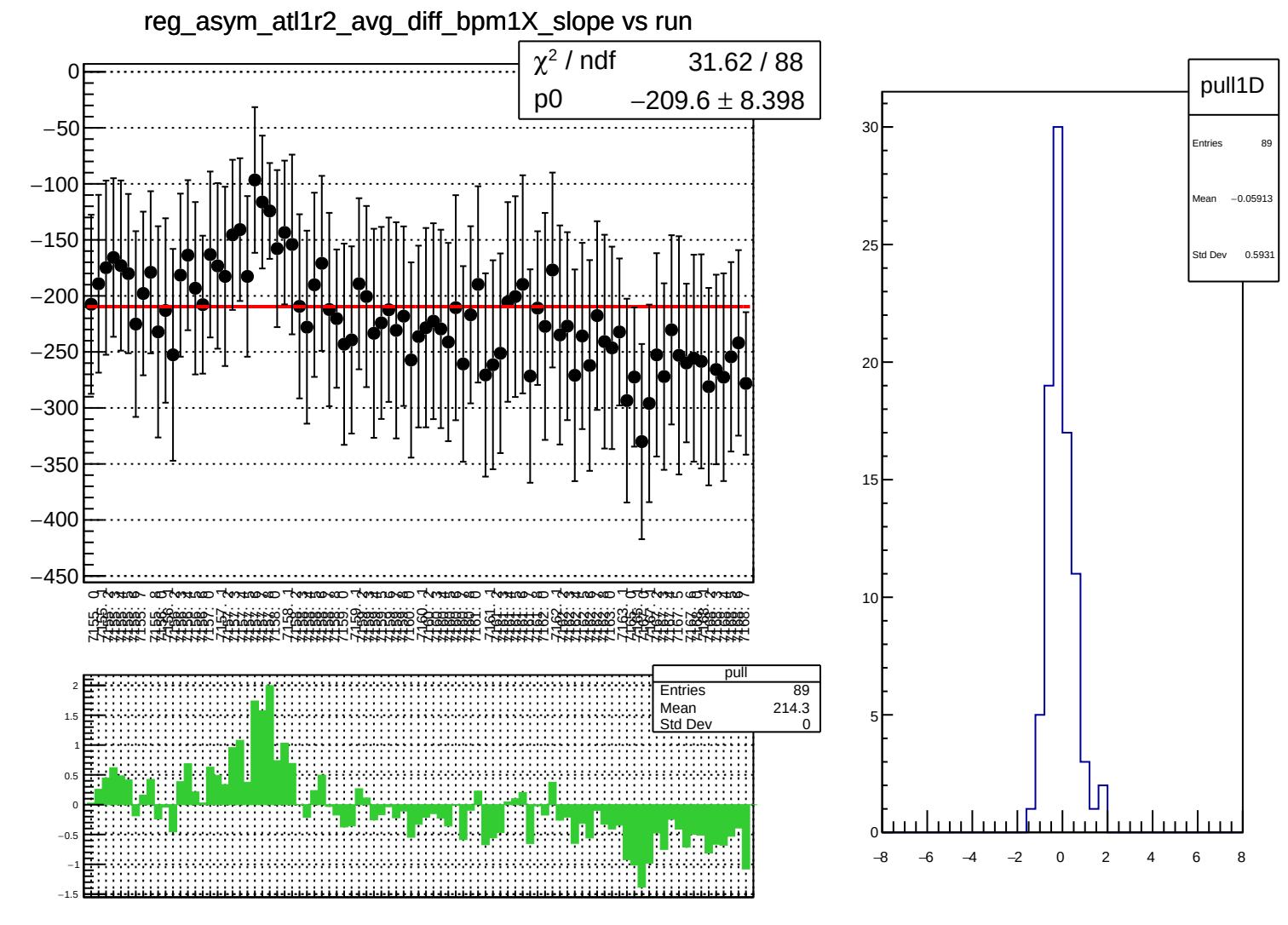

pull1D
Entries 89
Mean 0.02094
Std Dev 1.031

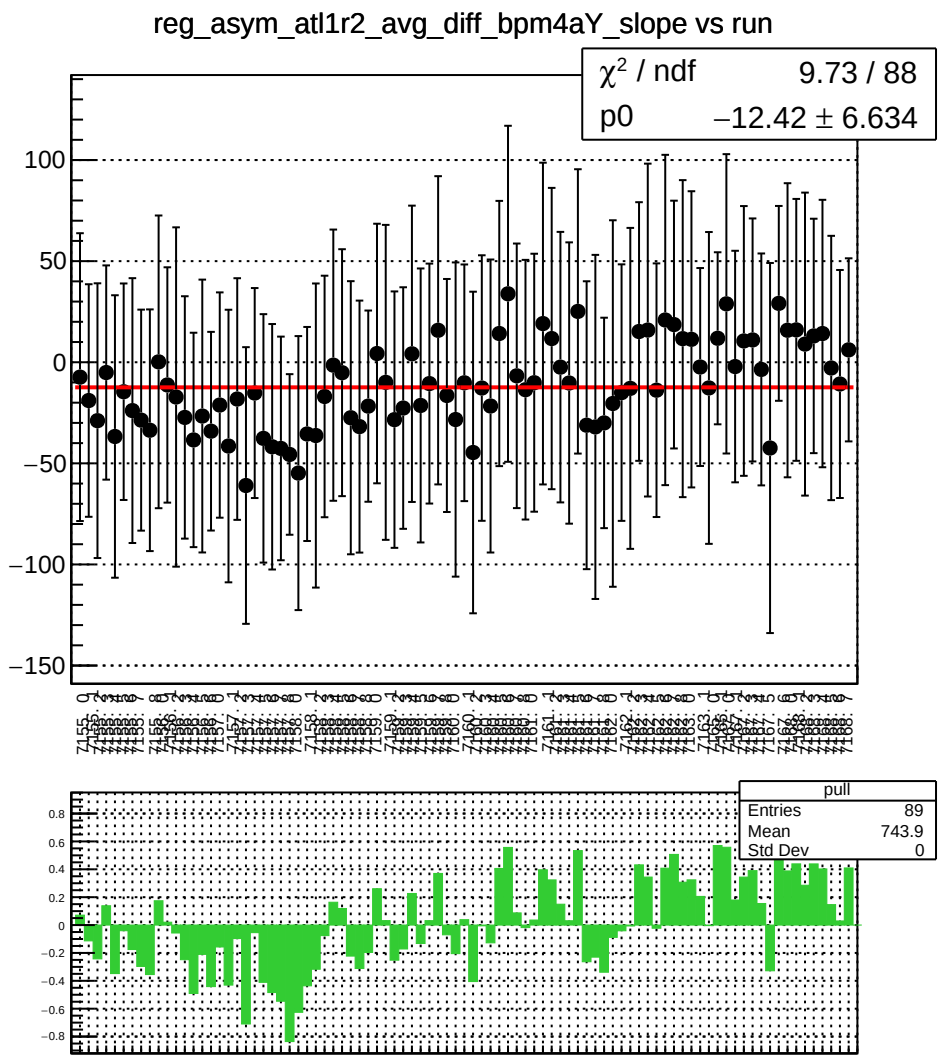

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.64 / 88
p0 −2.691 ± 1.817
pull
Entries 89
Mean 279.3
Std Dev 0

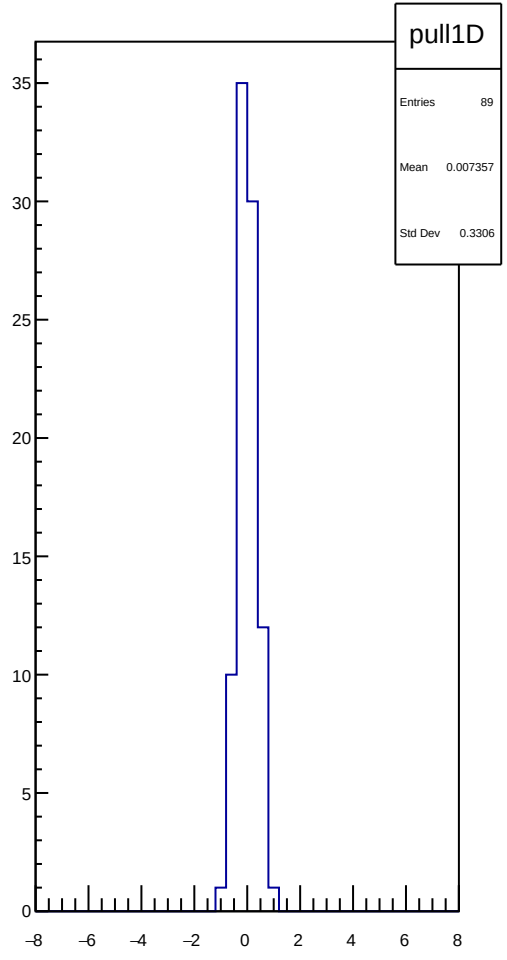

pull1D
Entries 89
Mean −0.02455
Std Dev 0.9575

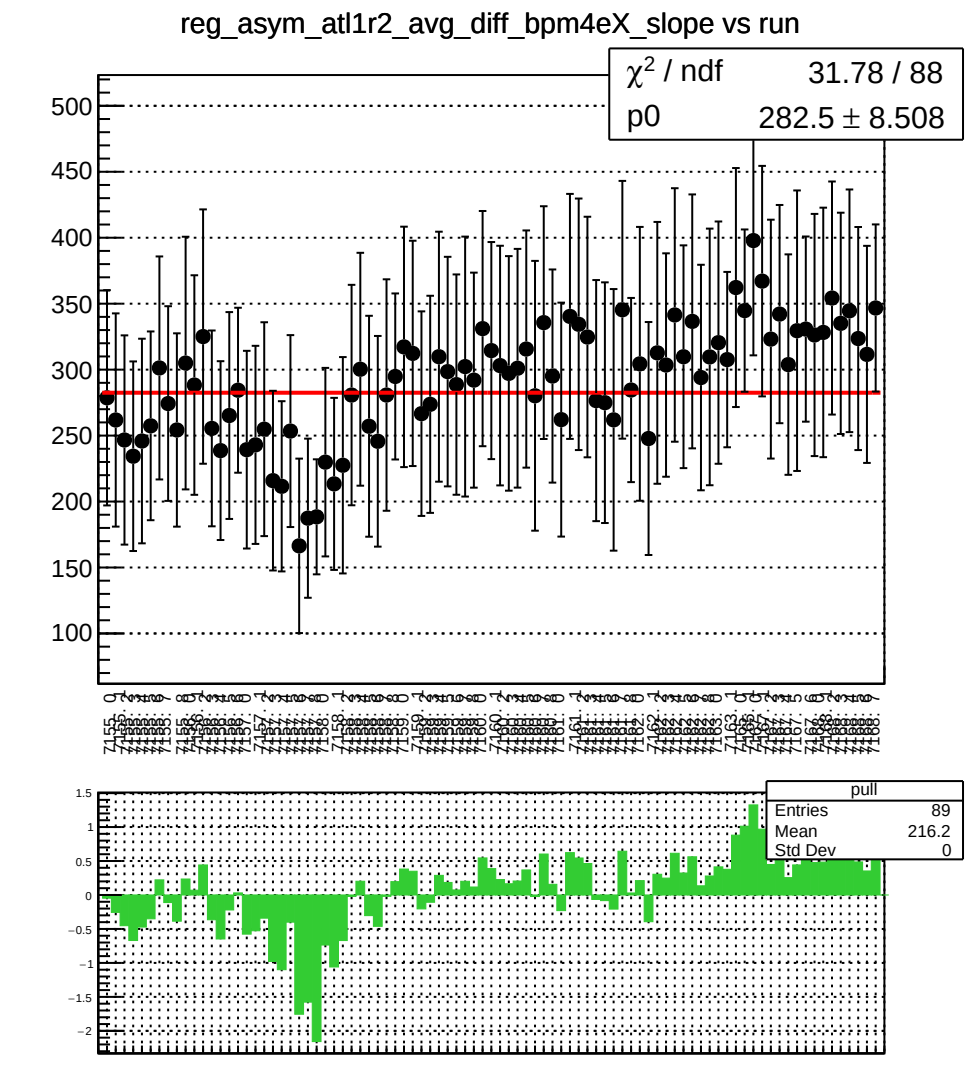

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 88.13 / 88
p0 13.22 ± 0.06851
pull
Entries 89
Mean 607
Std Dev 0

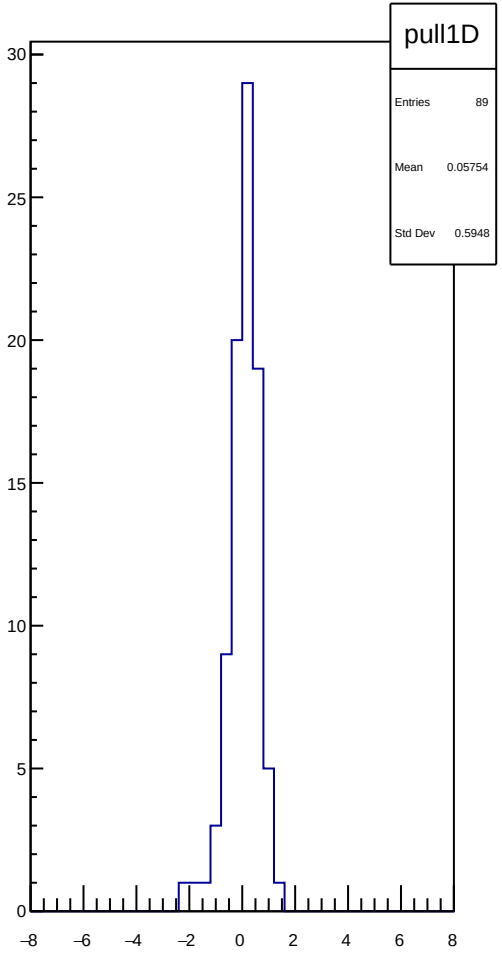

pull1D
Entries 89
Mean −0.00838
Std Dev 0.9951

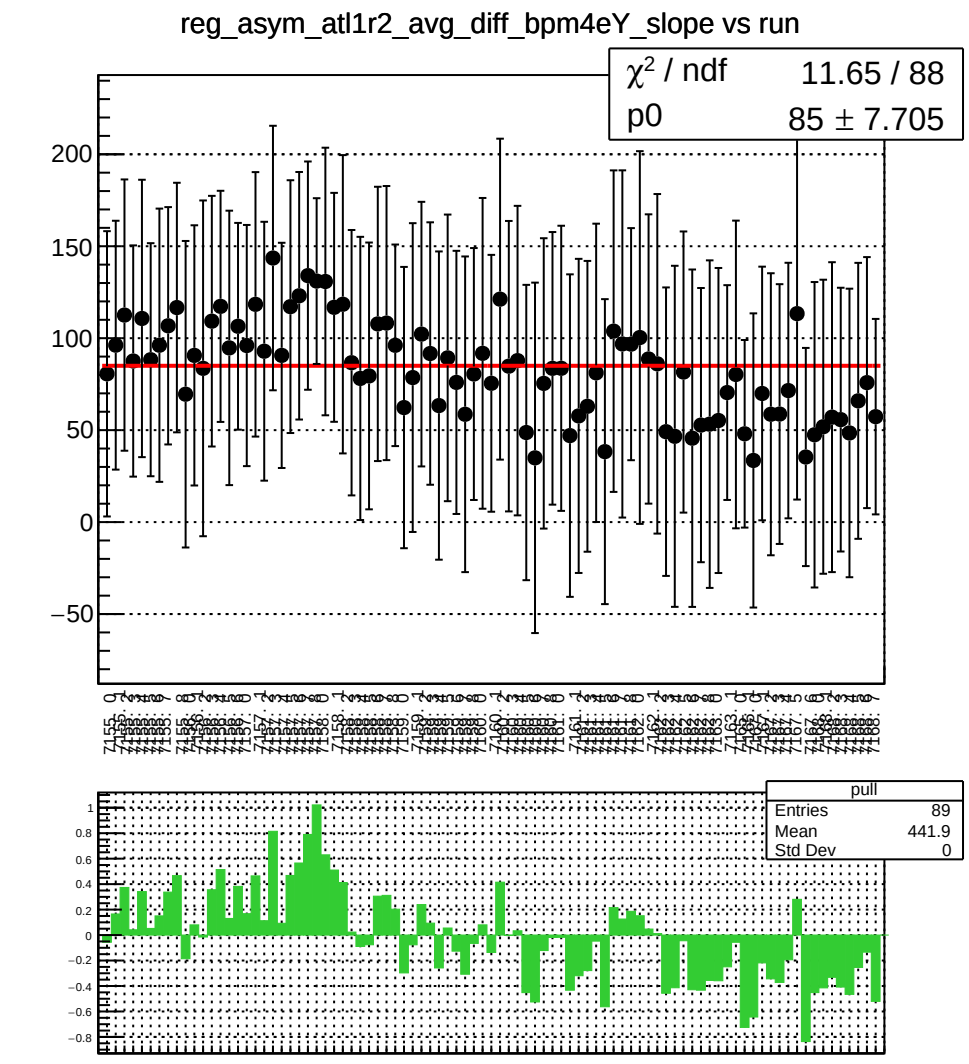

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 31.62 / 88
p0 −209.6 ± 8.398
pull
Entries 89
Mean 214.3
Std Dev 0
pull1D
Entries 89
Mean −0.05913
Std Dev 0.5931

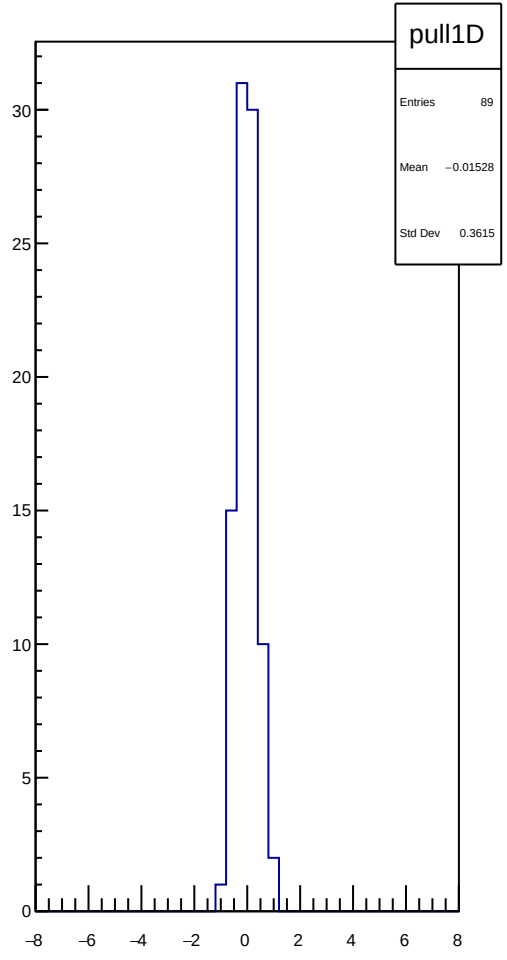

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.73 / 88
p0 −12.42 ± 6.634
pull
Entries 89
Mean 743.9
Std Dev 0

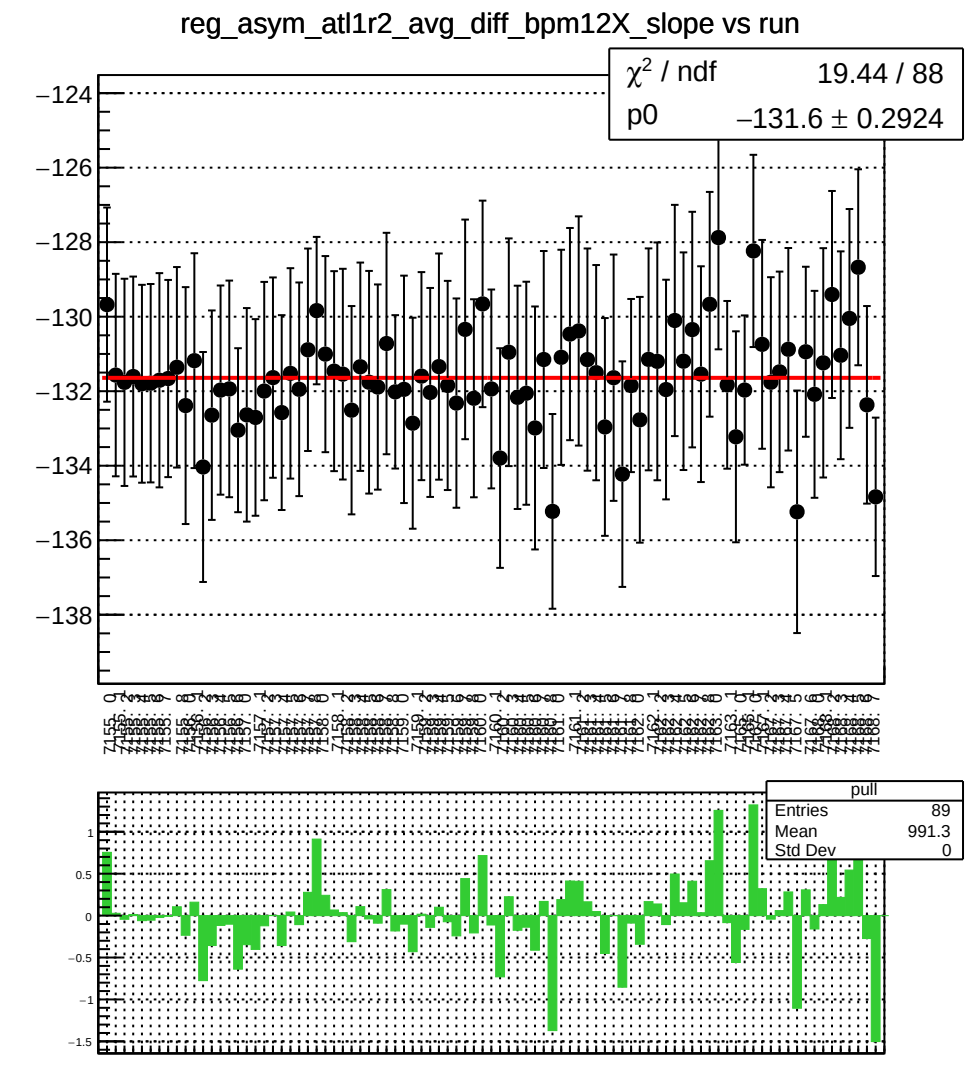

pull1D
Entries 89
Mean 0.007357
Std Dev 0.3306

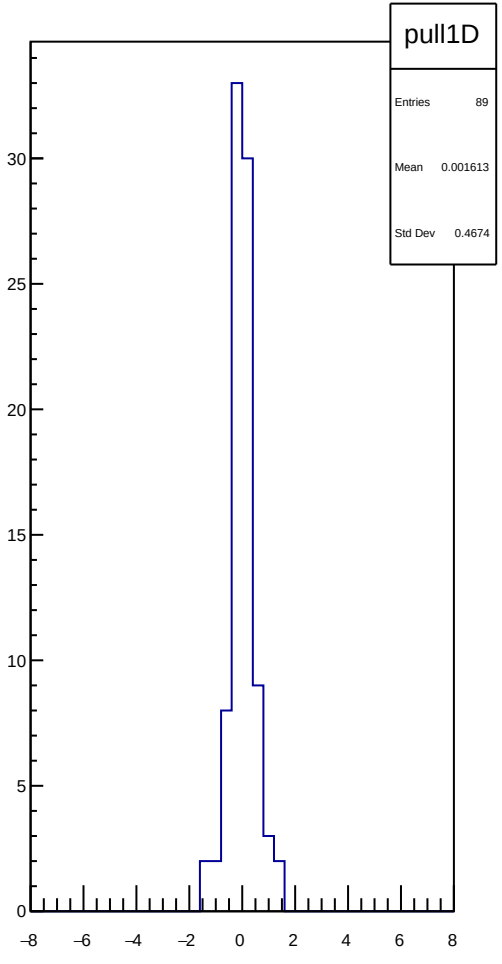

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.78 / 88
p0 282.5 ± 8.508
pull
Entries 89
Mean 216.2
Std Dev 0

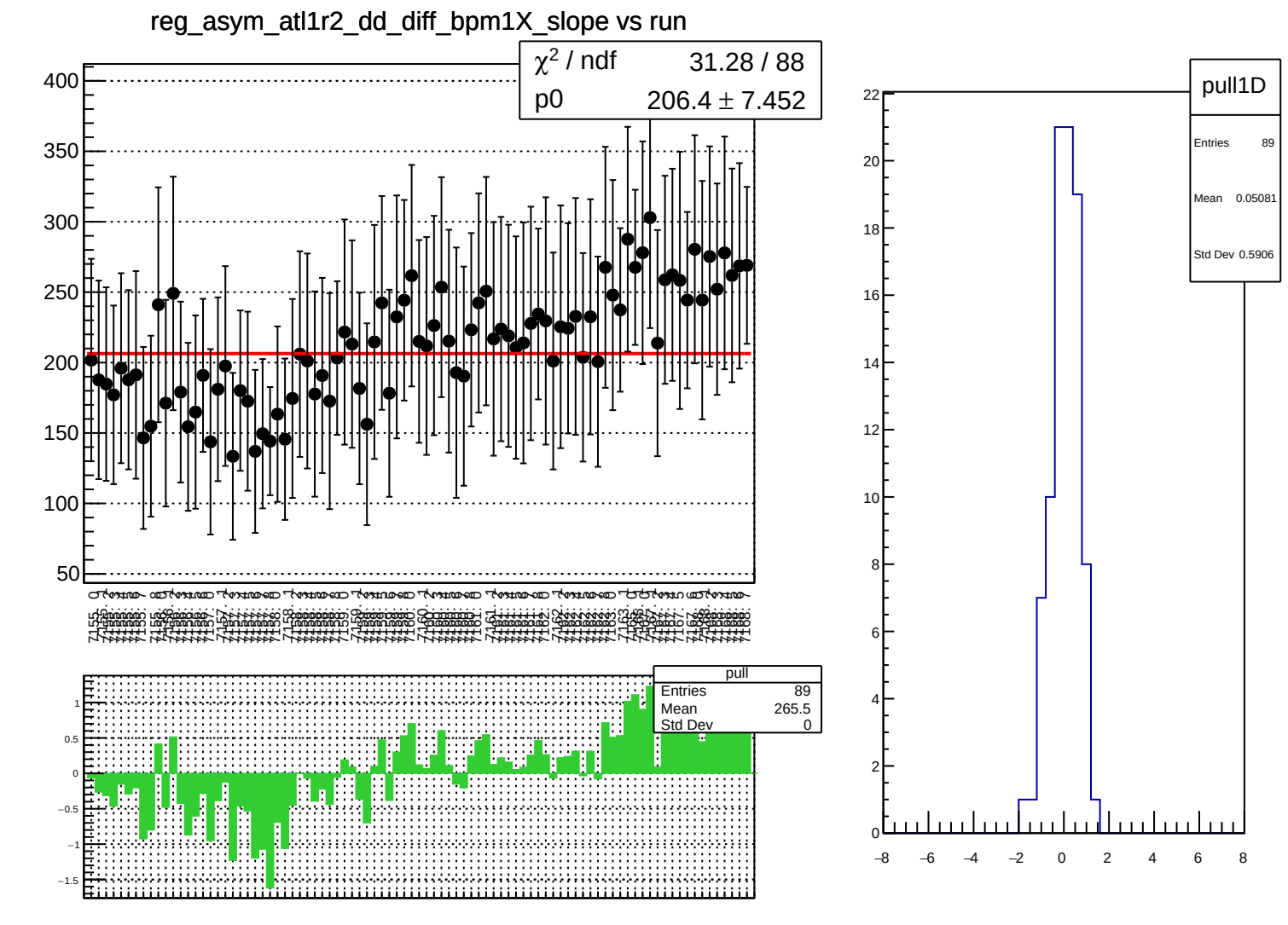

pull1D
Entries 89
Mean 0.05754
Std Dev 0.5948

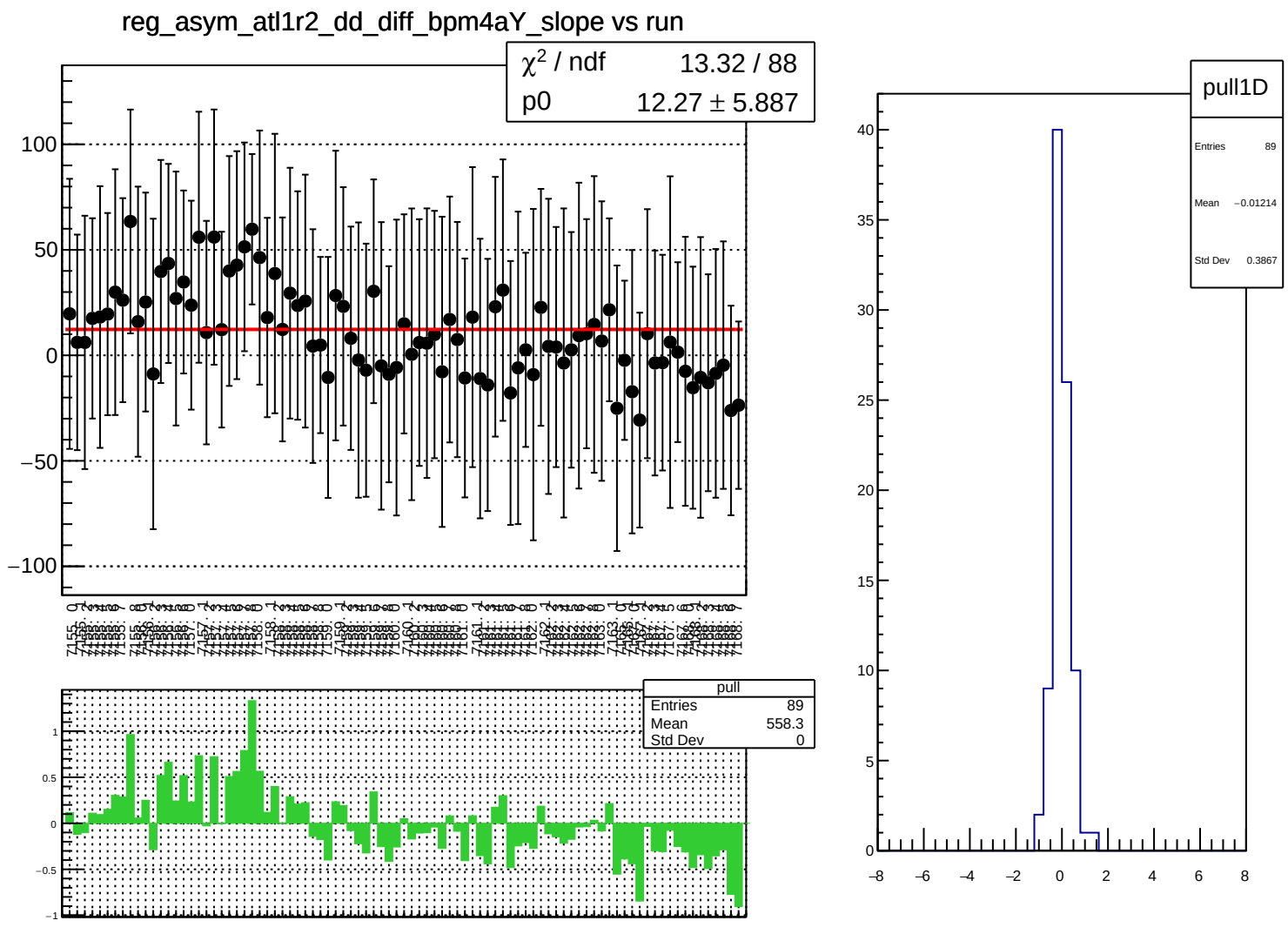

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.65 / 88
p0 85 ± 7.705
200
150
100
50
0
−50
pull
Entries 89
Mean 441.9
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

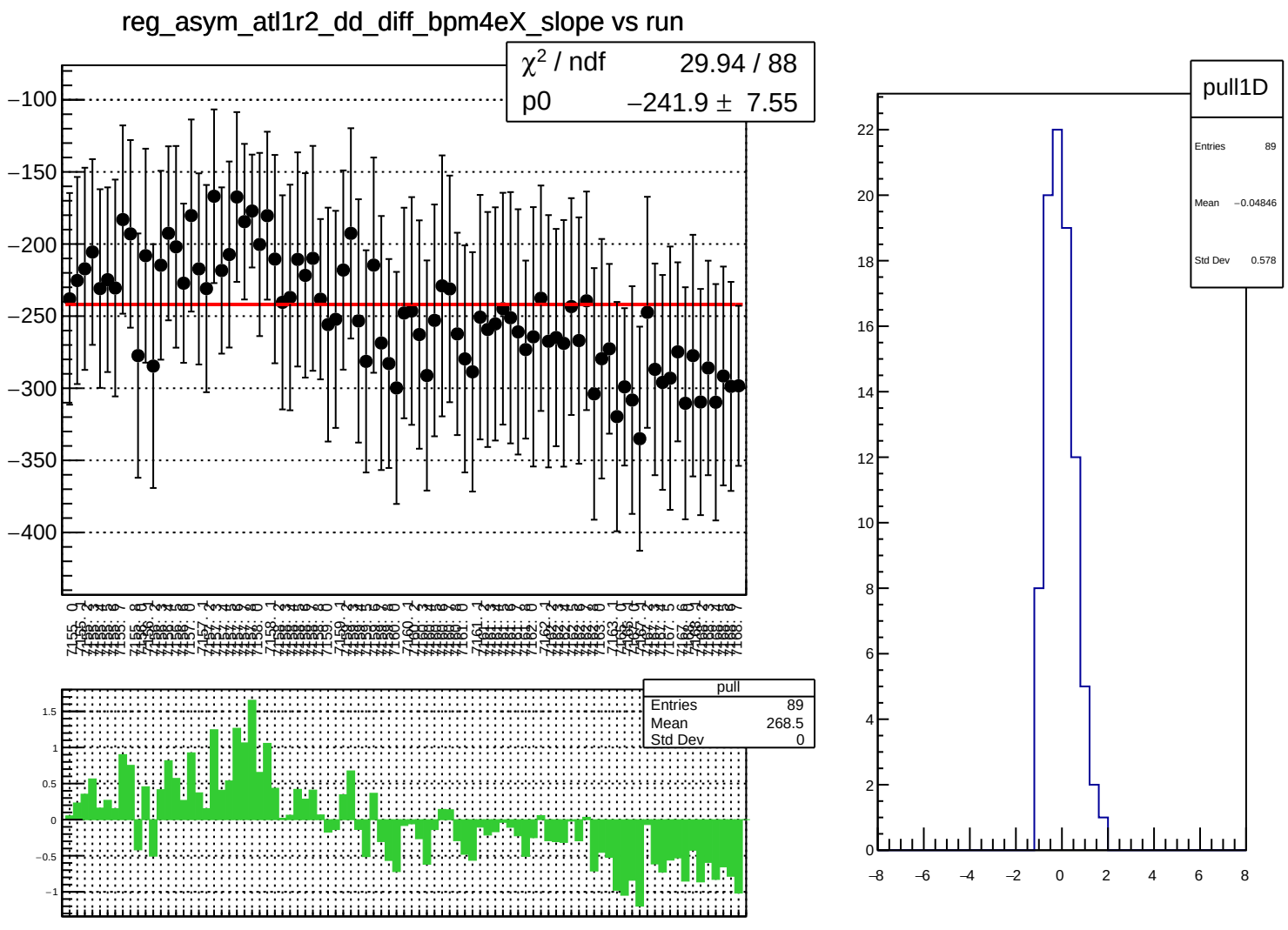

pull1D
Entries 89
Mean −0.01528
Std Dev 0.3615
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

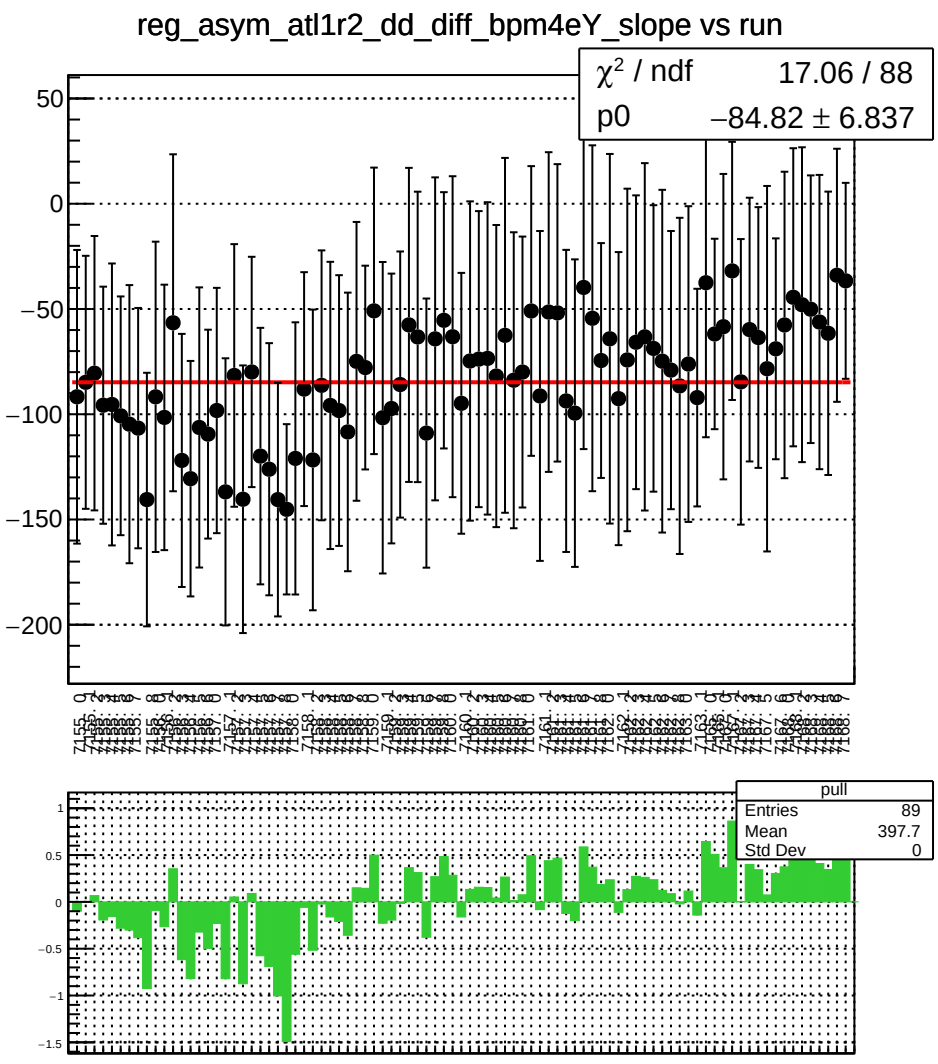

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 19.44 / 88
p0 −131.6 ± 0.2924
pull
Entries 89
Mean 991.3
Std Dev 0

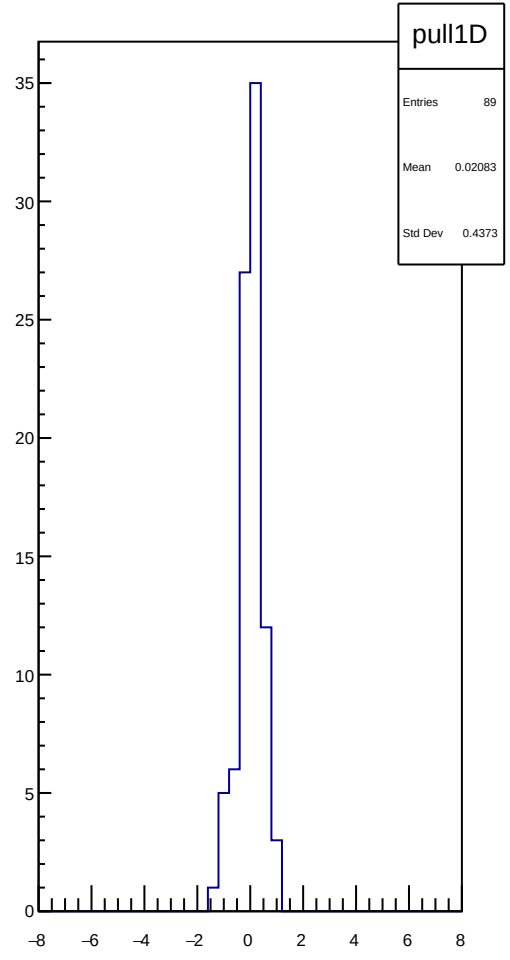

pull1D
Entries 89
Mean 0.001613
Std Dev 0.4674

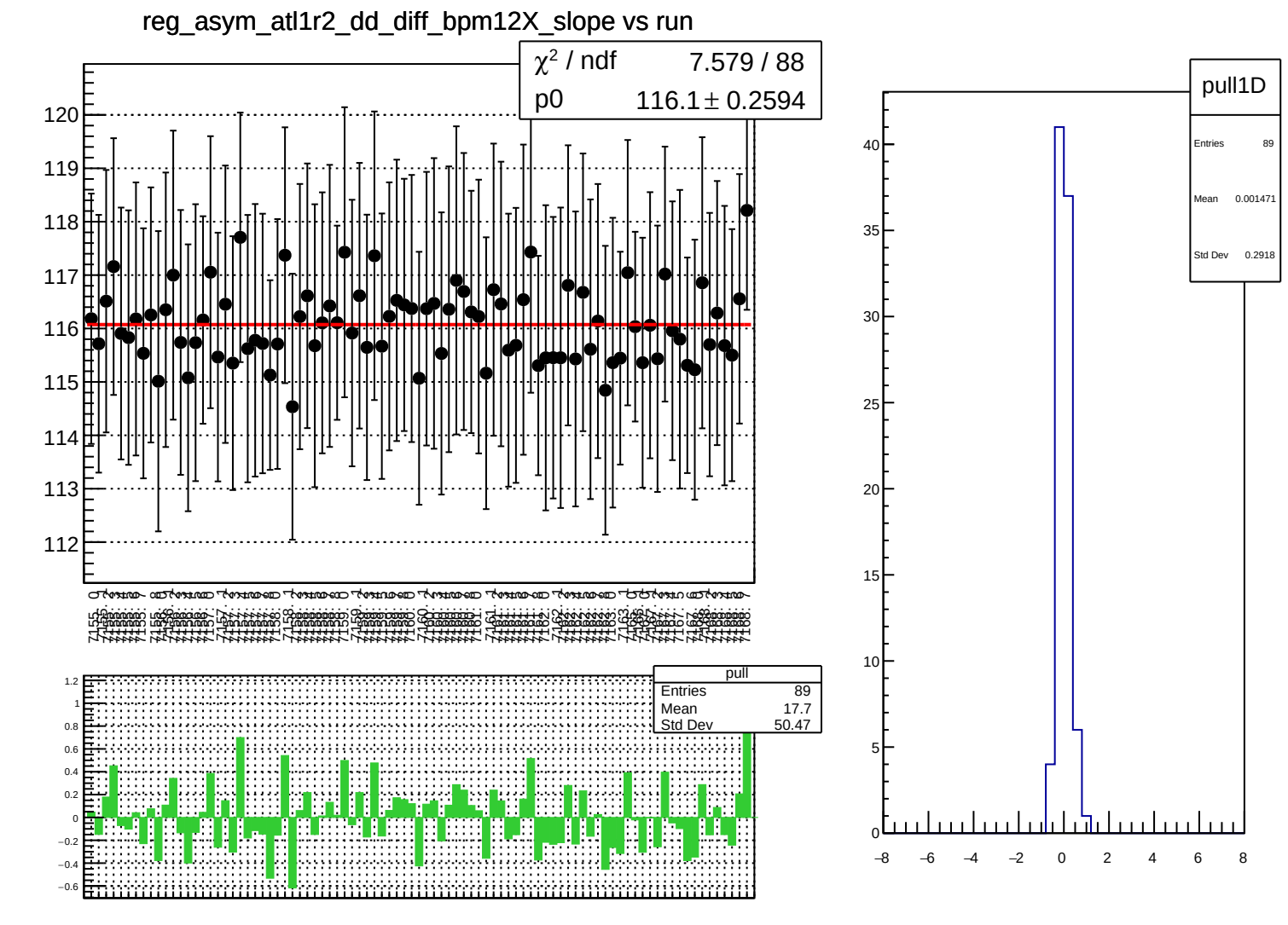

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 31.28 / 88
p0 206.4 ± 7.452
pull
Entries 89
Mean 265.5
Std Dev 0
pull1D
Entries 89
Mean 0.05081
Std Dev 0.5906

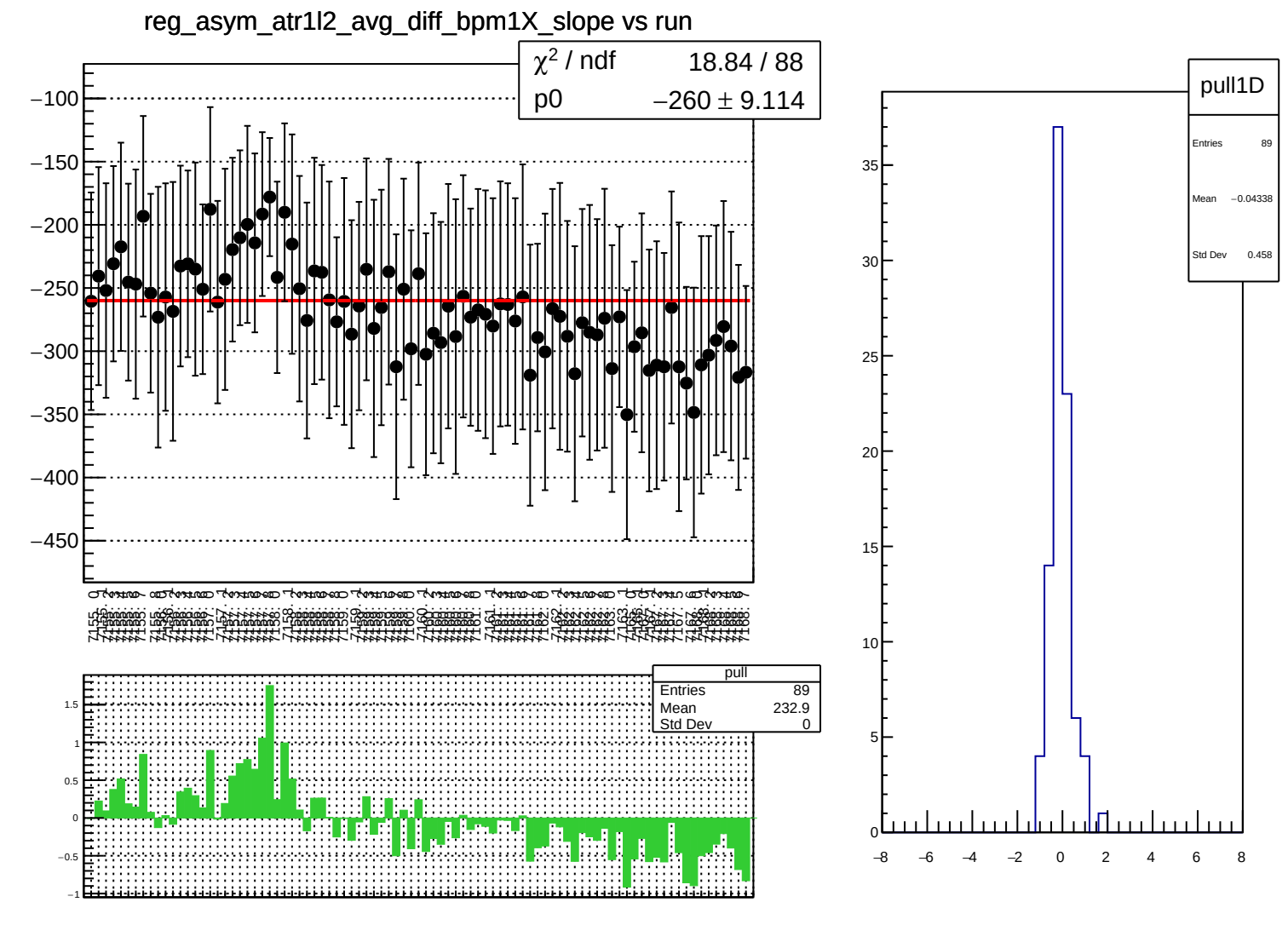

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 13.32 / 88
p0 12.27 ± 5.887
100
50
0
−50
−100
pull
Entries 89
Mean 558.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.01214
Std Dev 0.3867
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

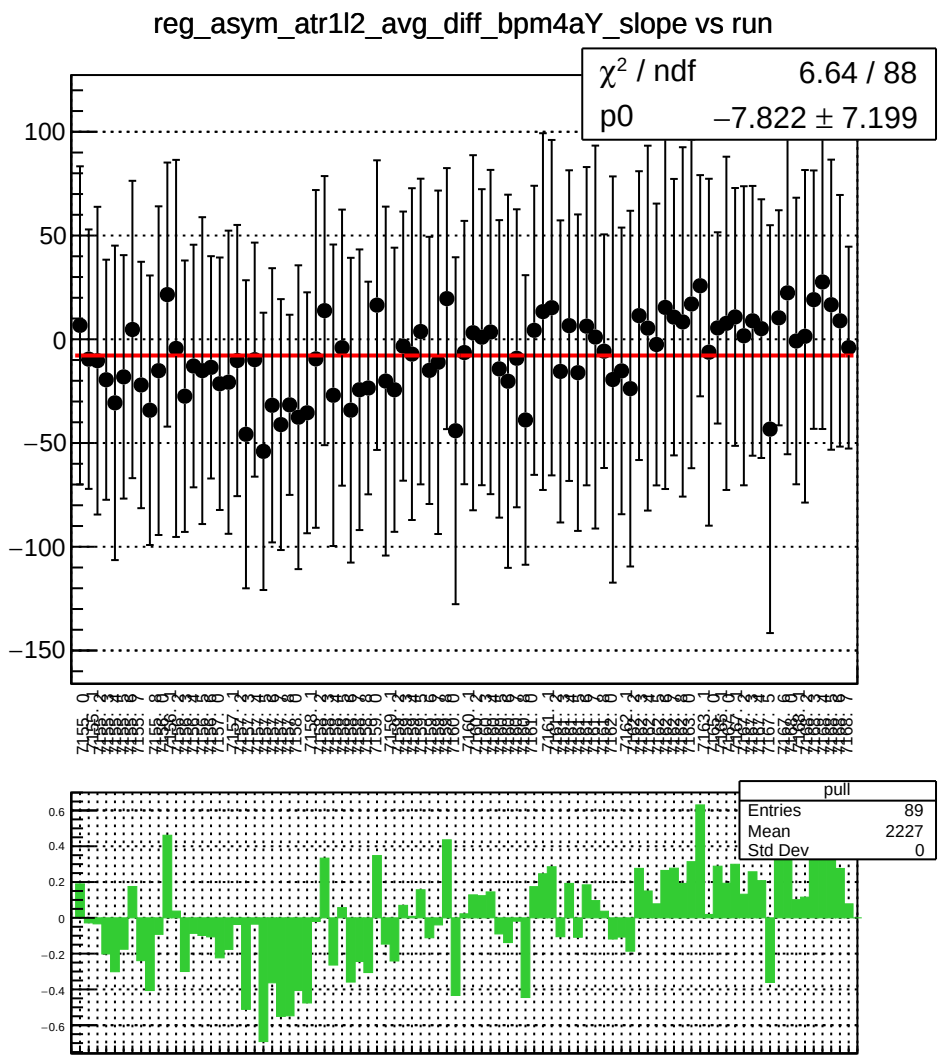

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.94 / 88
p0 −241.9 ± 7.55
−100
−150
−200
−250
−300
−350
−400
pull
Entries 89
Mean 268.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04846
Std Dev 0.578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

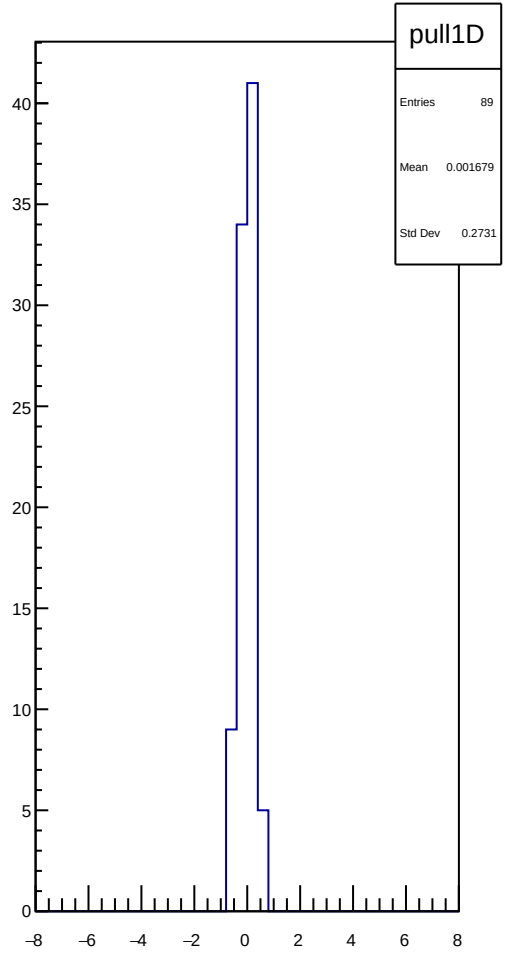

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 17.06 / 88
p0 −84.82 ± 6.837
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 397.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

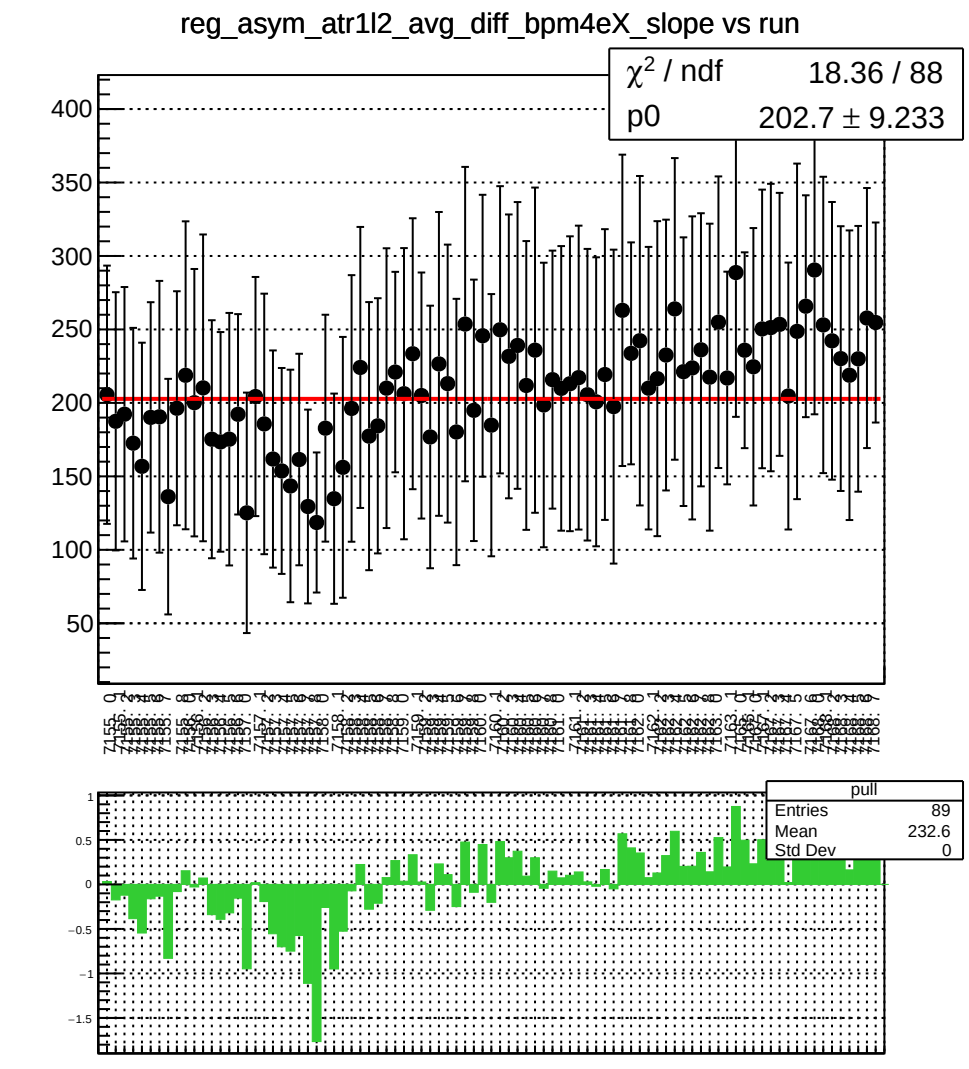

pull1D
Entries 89
Mean 0.02083
Std Dev 0.4373
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

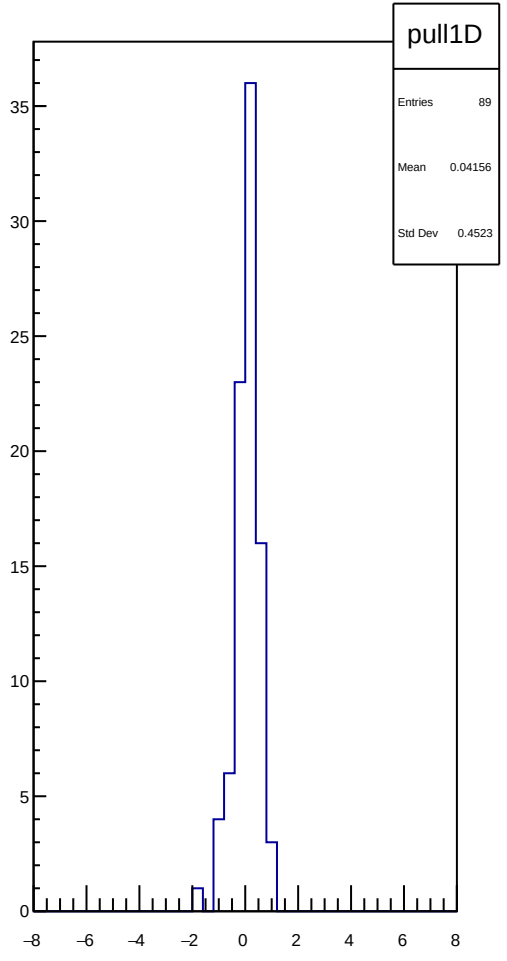

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.579 / 88
p0 116.1 ± 0.2594
pull
Entries 89
Mean 17.7
Std Dev 50.47
pull1D
Entries 89
Mean 0.001471
Std Dev 0.2918

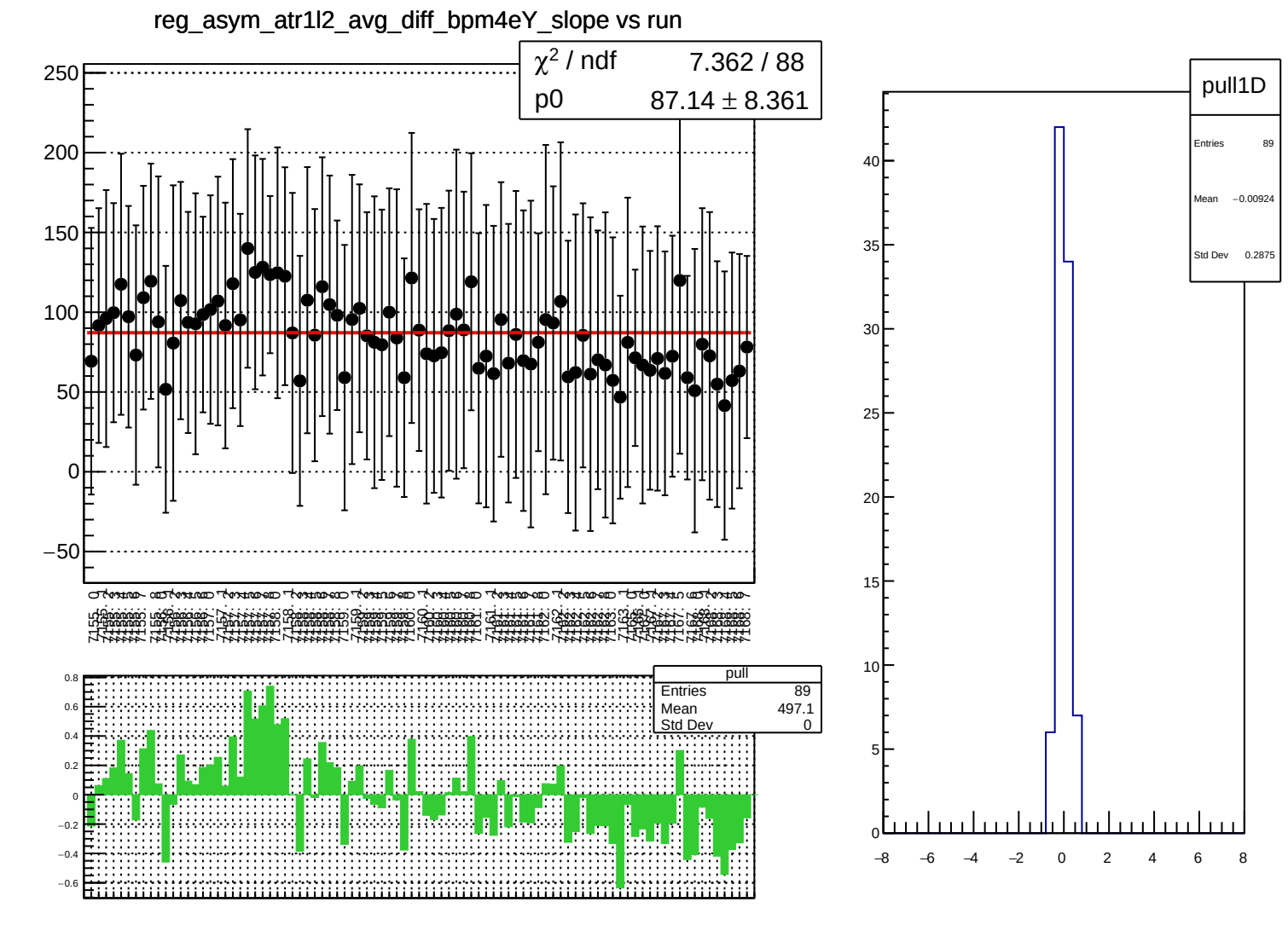

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.84 / 88
p0 −260 ± 9.114
−100
−150
−200
−250
−300
−350
−400
−450
pull
Entries 89
Mean 232.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04338
Std Dev 0.458
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

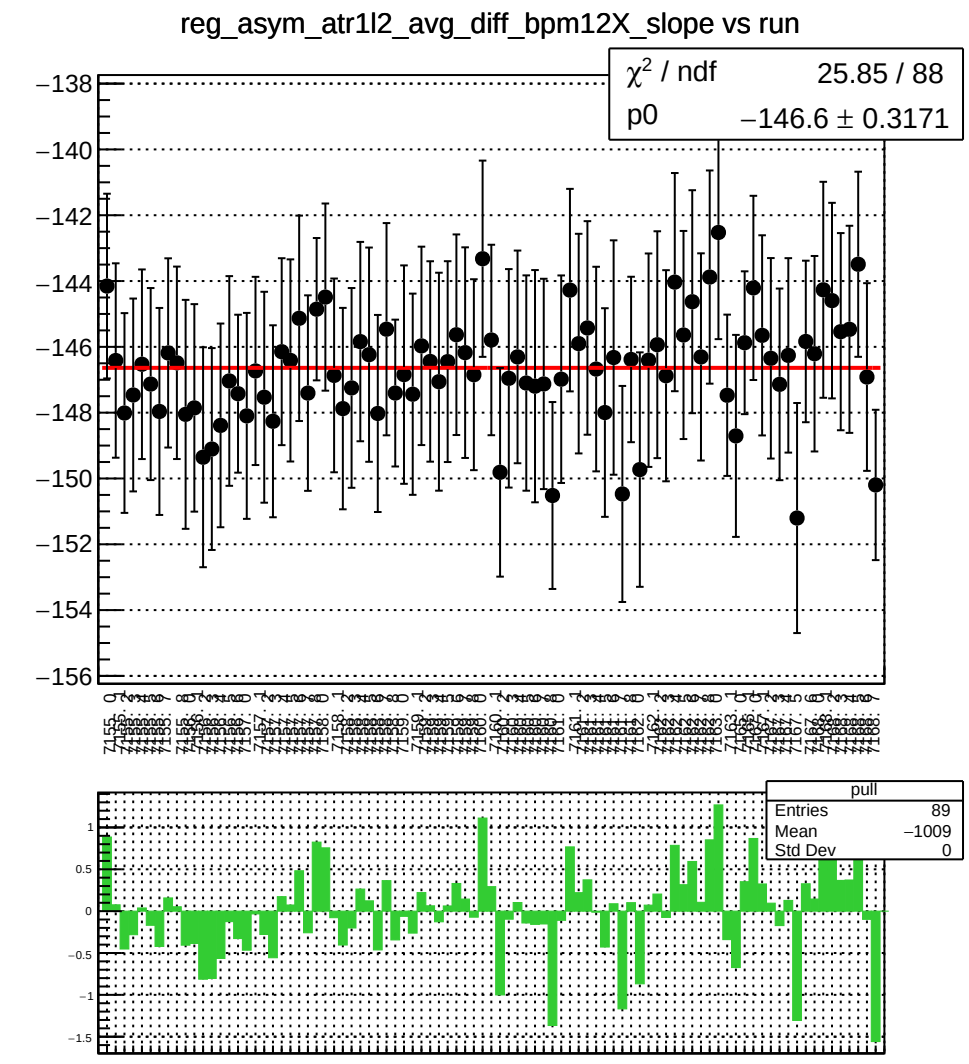

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.64 / 88
p0 −7.822 ± 7.199
100
50
0
−50
−100
−150
pull
Entries 89
Mean 2227
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

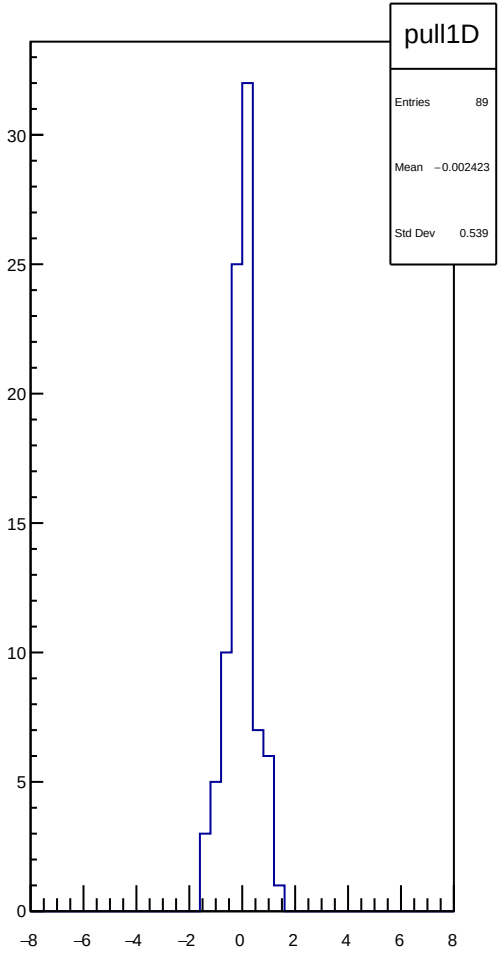

pull1D
Entries 89
Mean 0.001679
Std Dev 0.2731
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

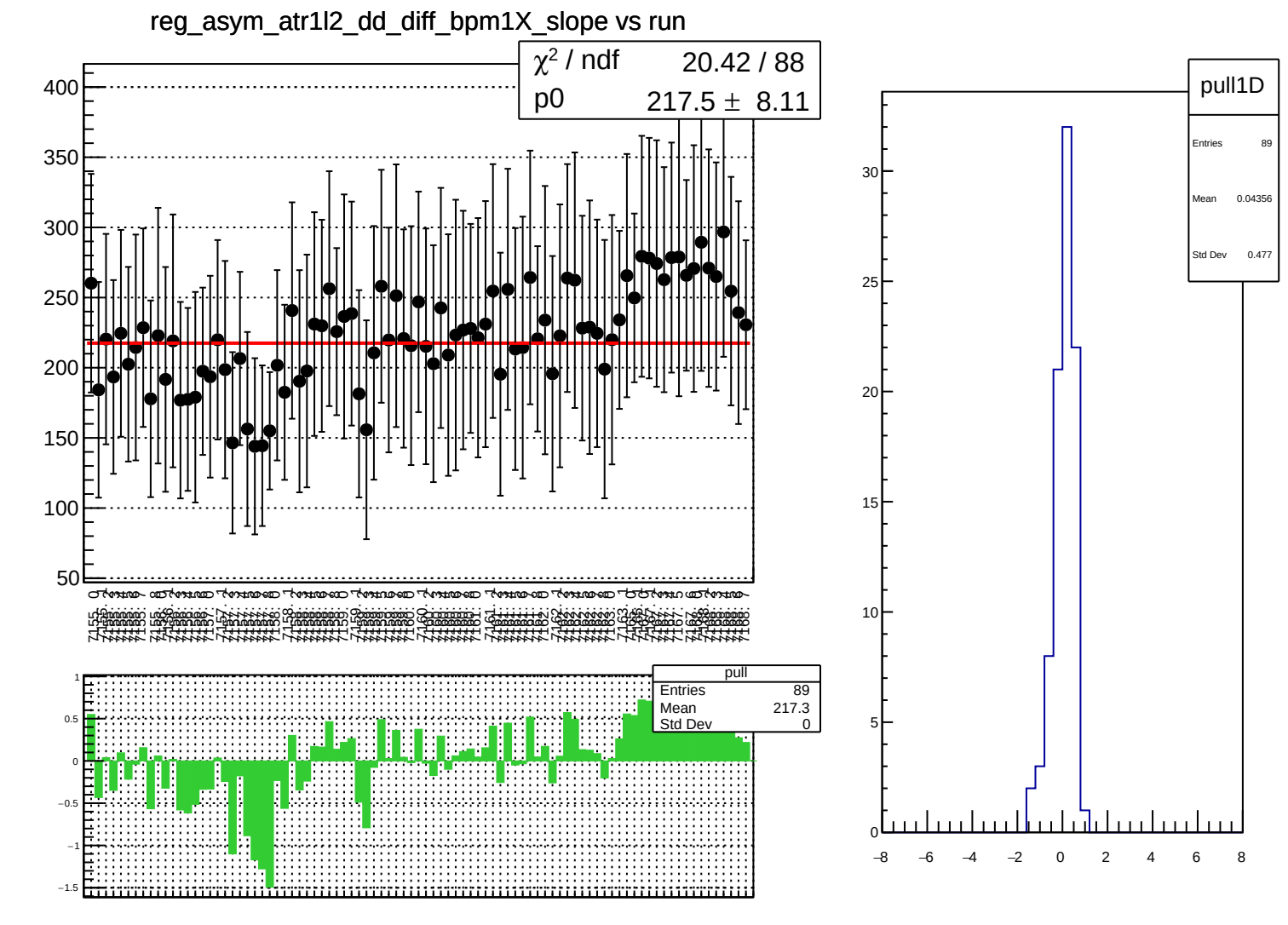

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.36 / 88
p0 202.7 ± 9.233
pull
Entries 89
Mean 232.6
Std Dev 0

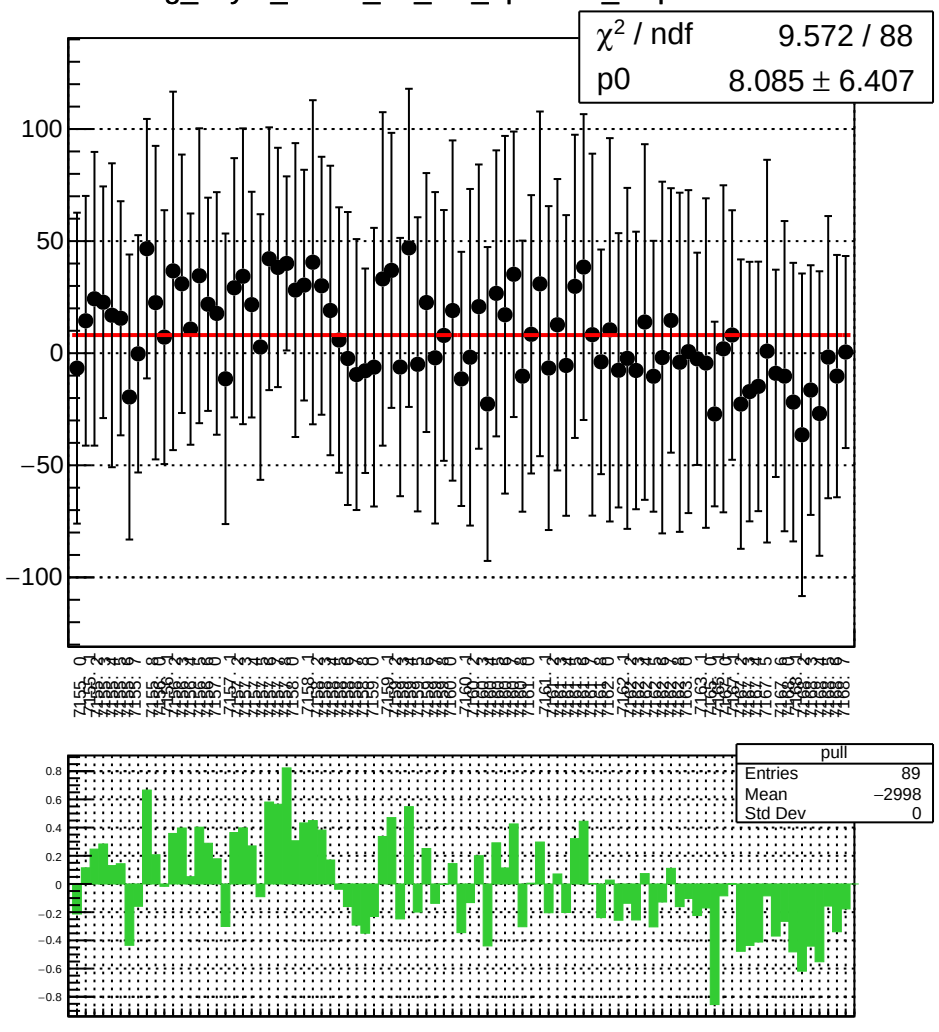

pull1D
Entries 89
Mean 0.04156
Std Dev 0.4523

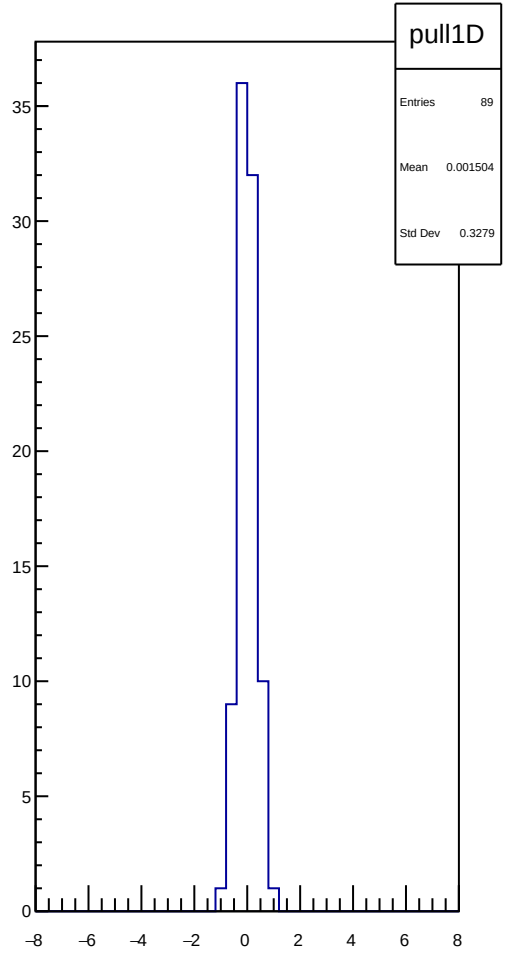

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.362 / 88
p0 87.14 ± 8.361
pull
Entries 89
Mean 497.1
Std Dev 0
pull1D
Entries 89
Mean −0.00924
Std Dev 0.2875

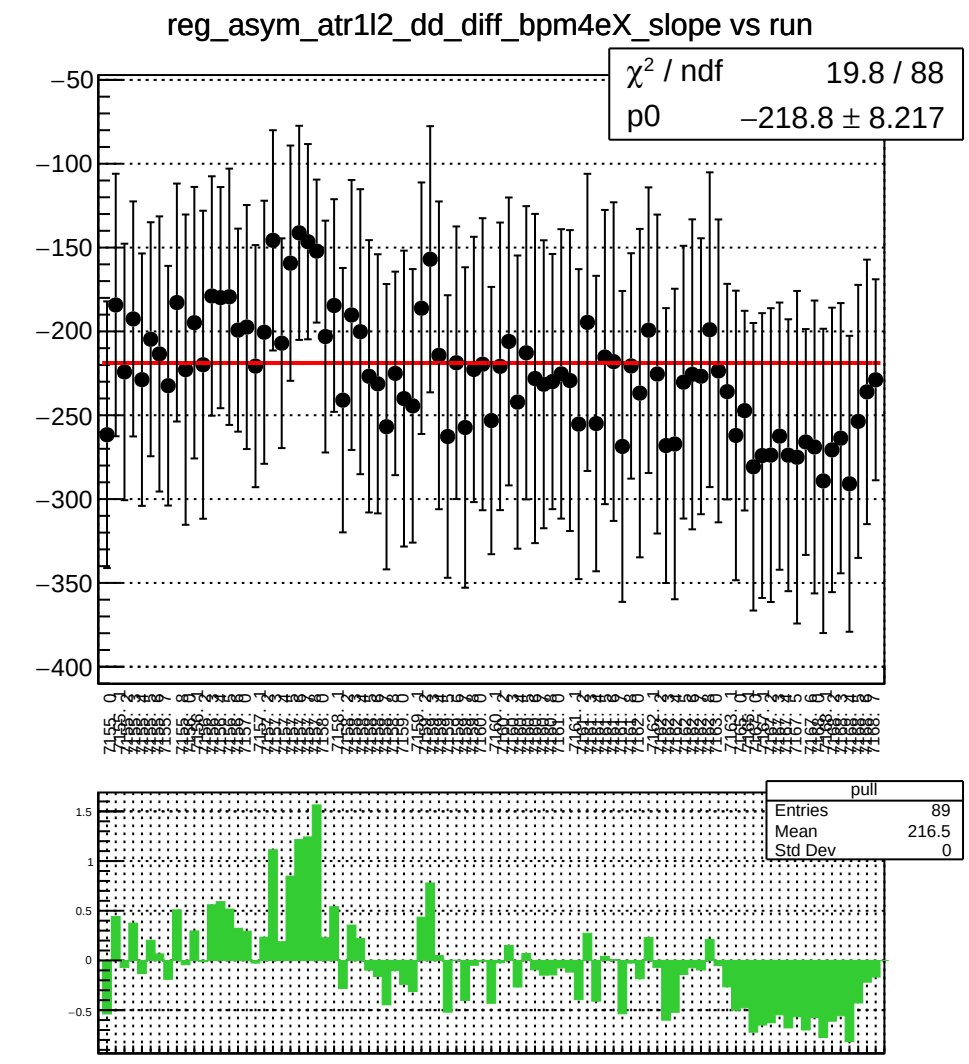

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 25.85 / 88
p0 −146.6 ± 0.3171
pull
Entries 89
Mean −1009
Std Dev 0

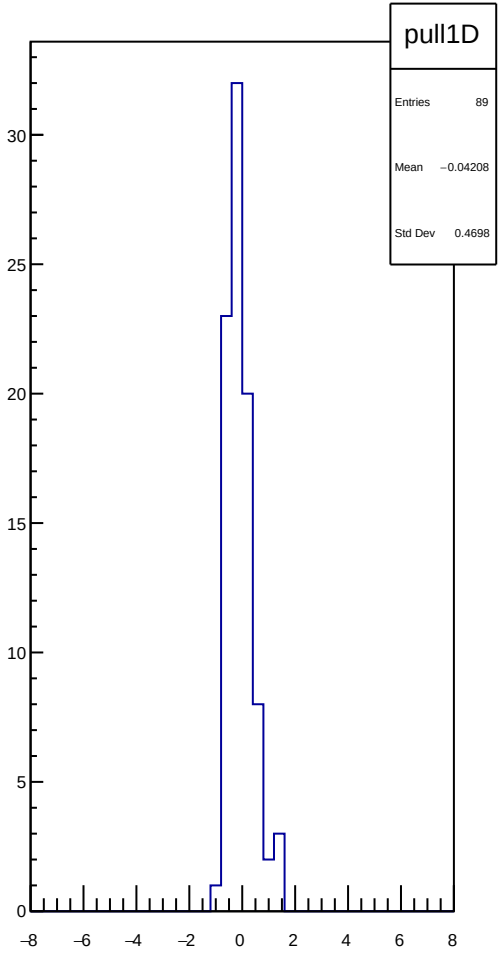

pull1D
Entries 89
Mean −0.002423
Std Dev 0.539

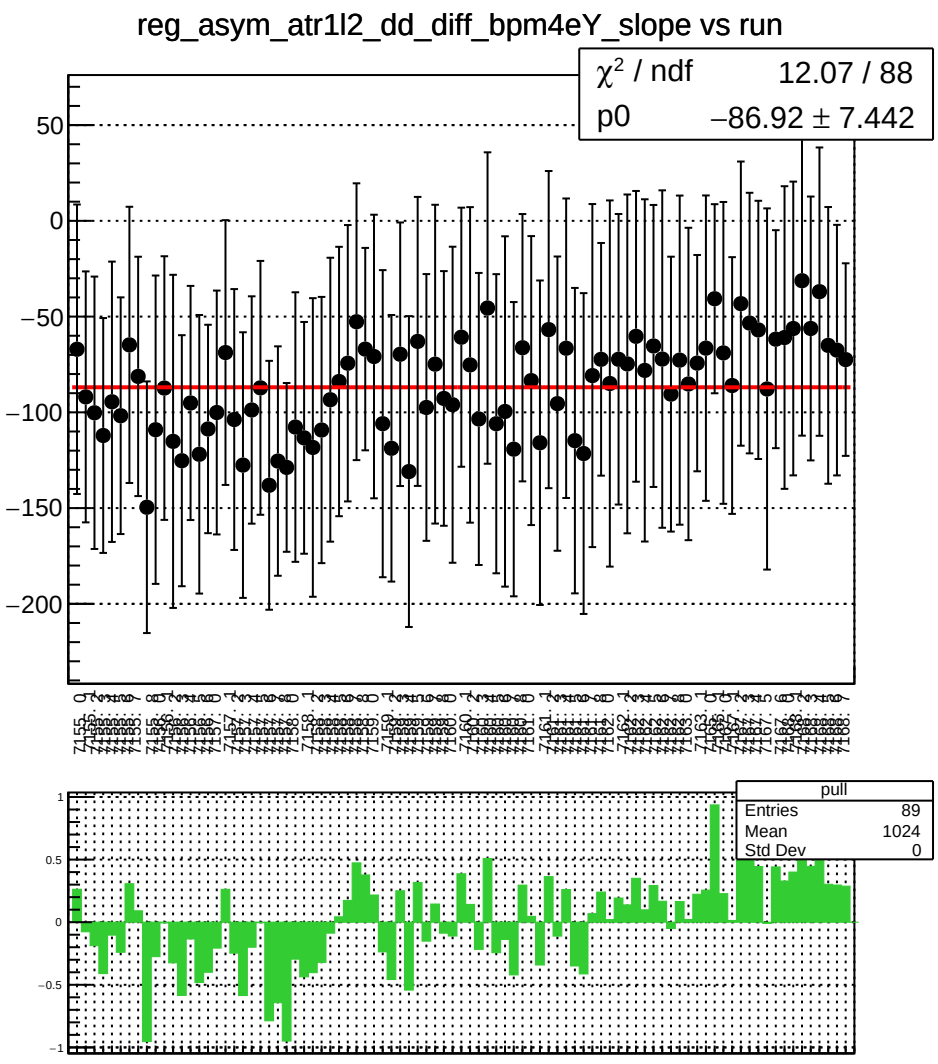

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 20.42 / 88
p0 217.5 ± 8.11
pull
Entries 89
Mean 217.3
Std Dev 0
pull1D
Entries 89
Mean 0.04356
Std Dev 0.477

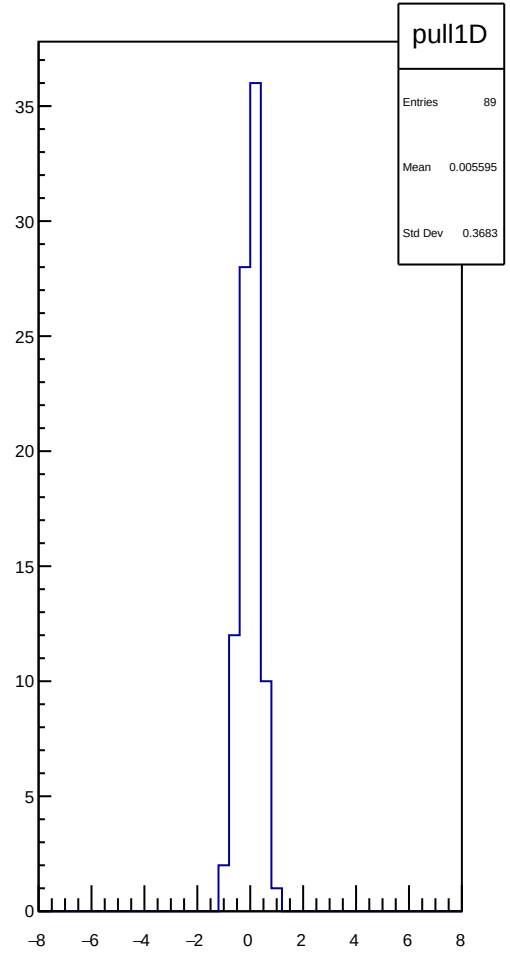

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.572 / 88
p0 8.085 ± 6.407
100
50
0
−50
−100
pull
Entries 89
Mean −2998
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

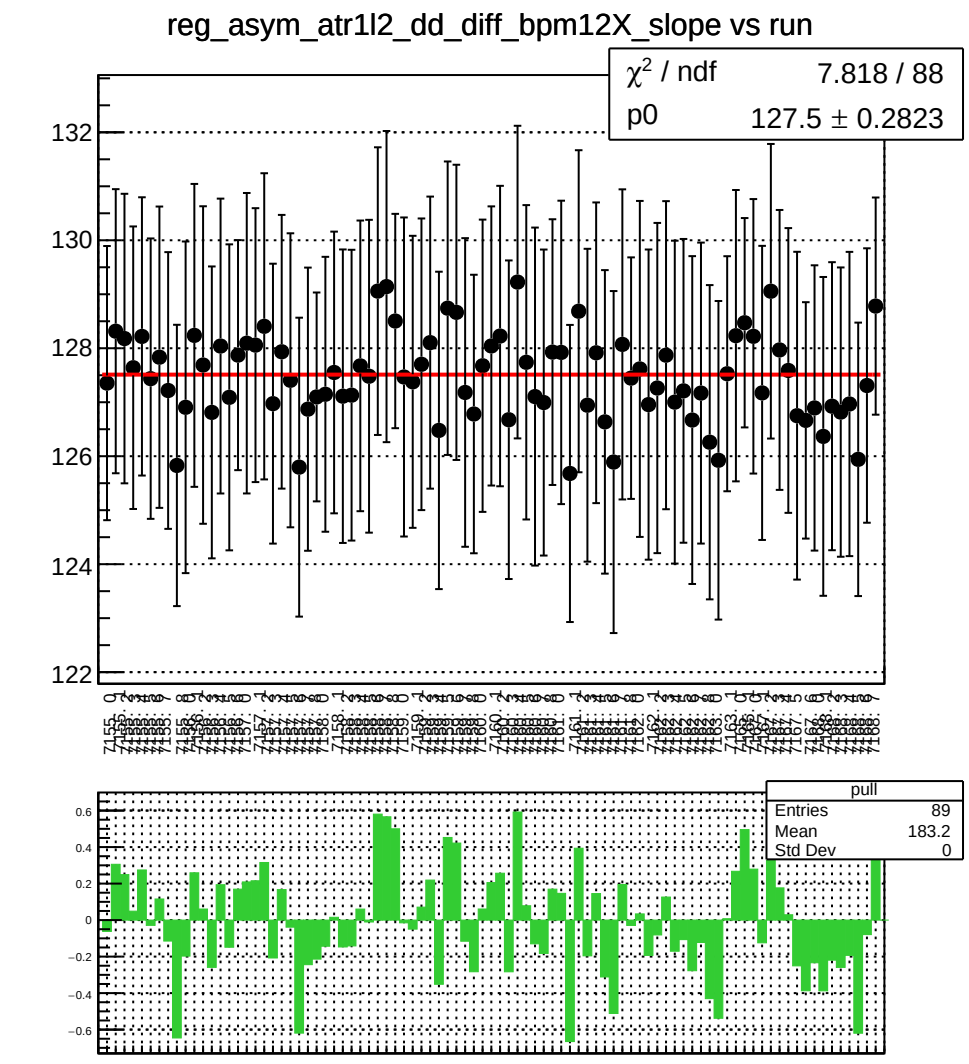

pull1D
Entries 89
Mean 0.001504
Std Dev 0.3279
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

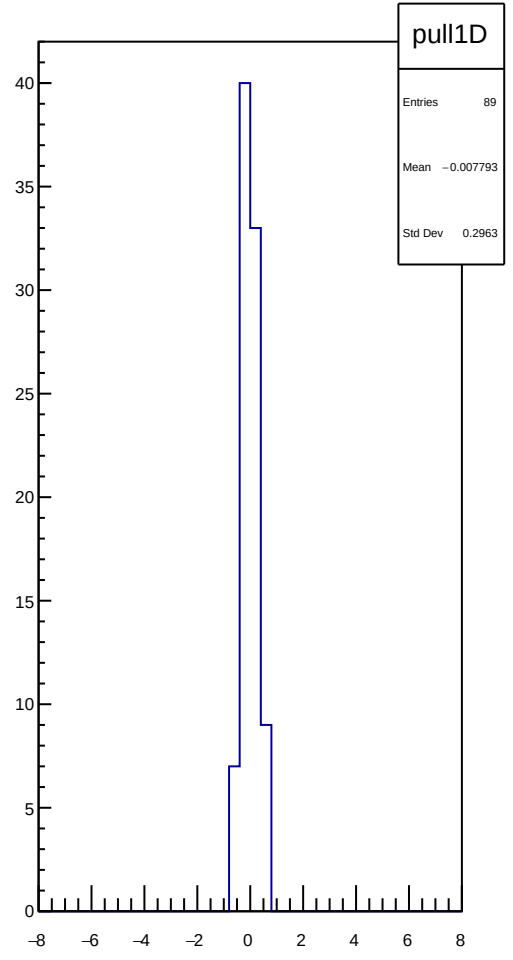

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 19.8 / 88
p0 −218.8 ± 8.217
pull
Entries 89
Mean 216.5
Std Dev 0

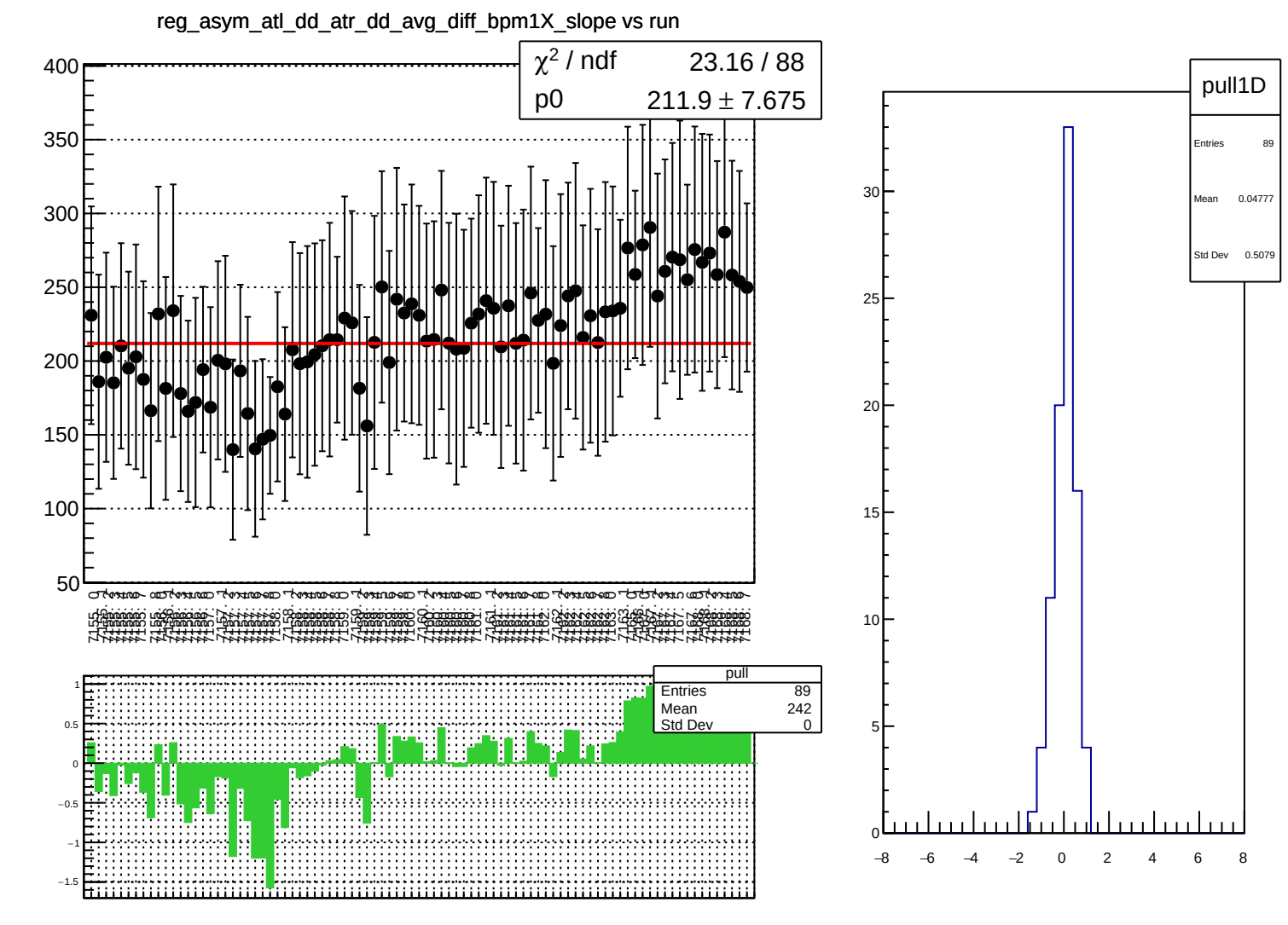

pull1D
Entries 89
Mean −0.04208
Std Dev 0.4698

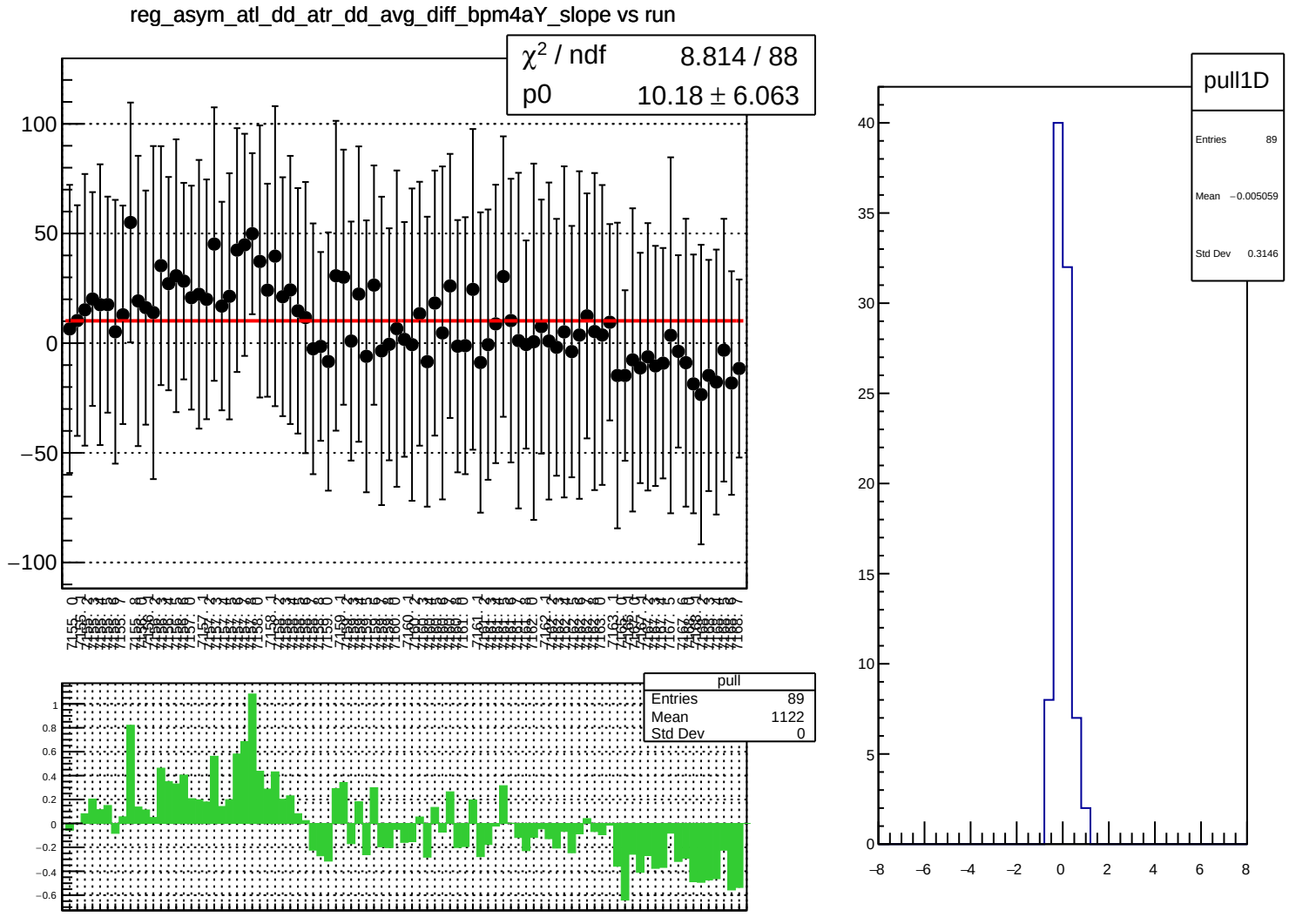

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.07 / 88
p0 −86.92 ± 7.442
pull
Entries 89
Mean 1024
Std Dev 0

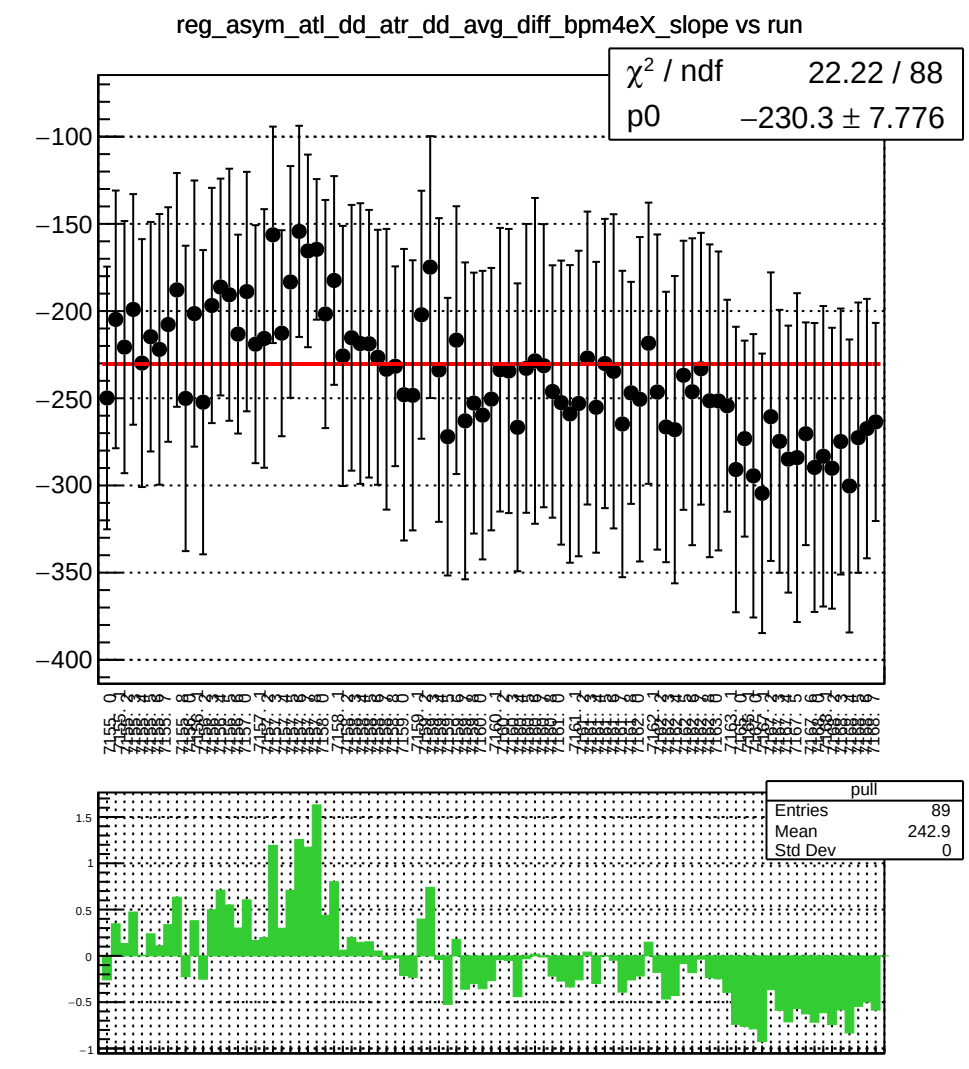

pull1D
Entries 89
Mean 0.005595
Std Dev 0.3683

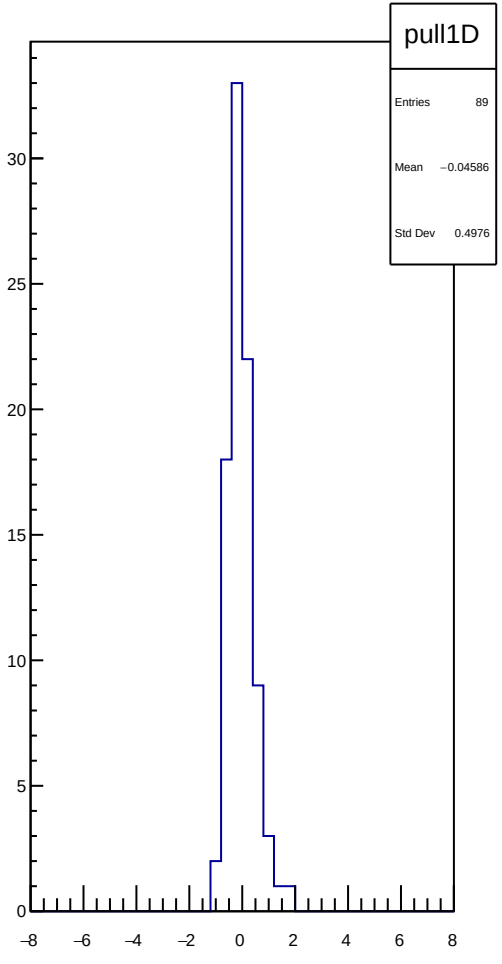

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 7.818 / 88
p0 127.5 ± 0.2823
pull
Entries 89
Mean 183.2
Std Dev 0

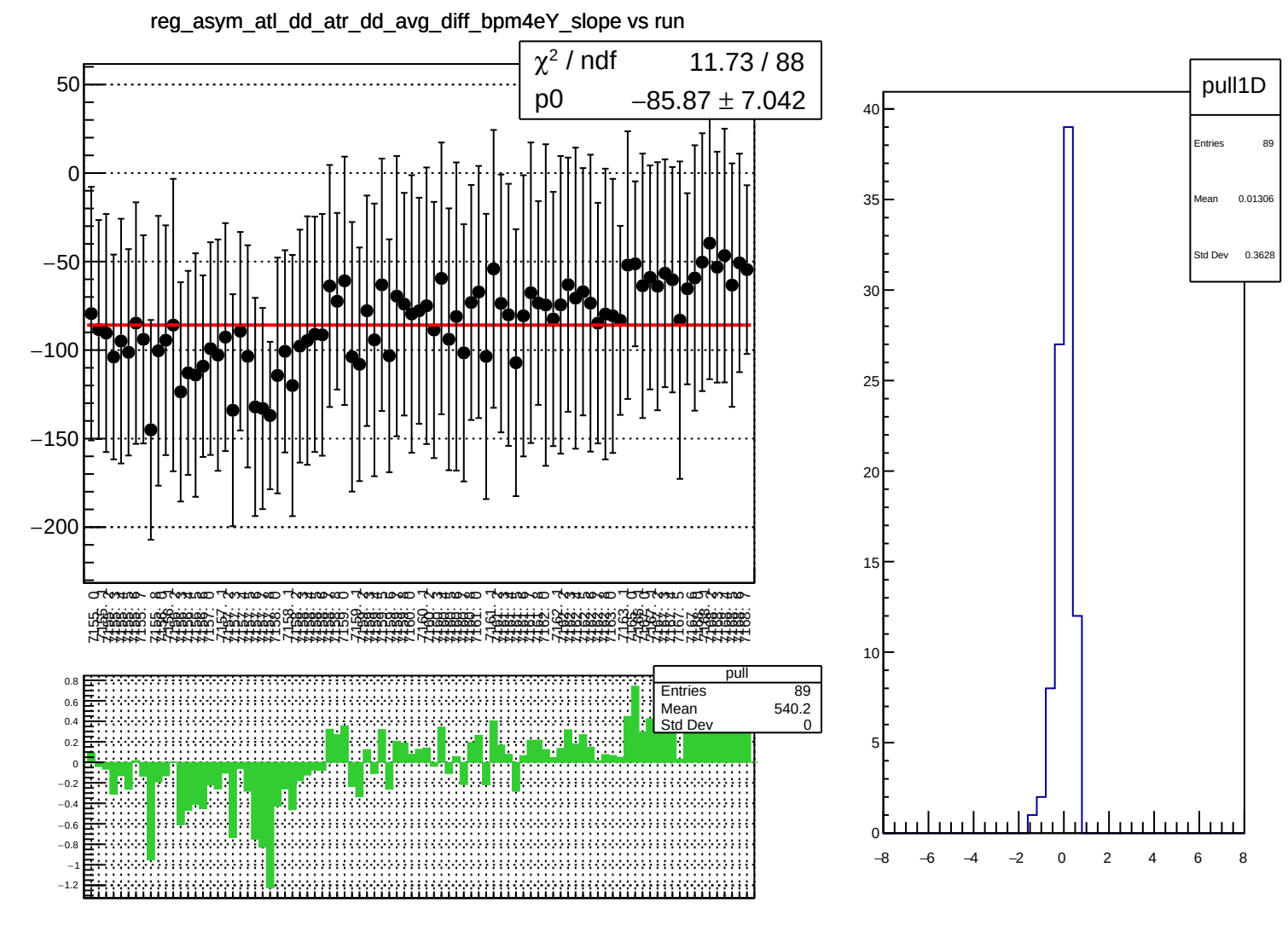

pull1D
Entries 89
Mean −0.007793
Std Dev 0.2963

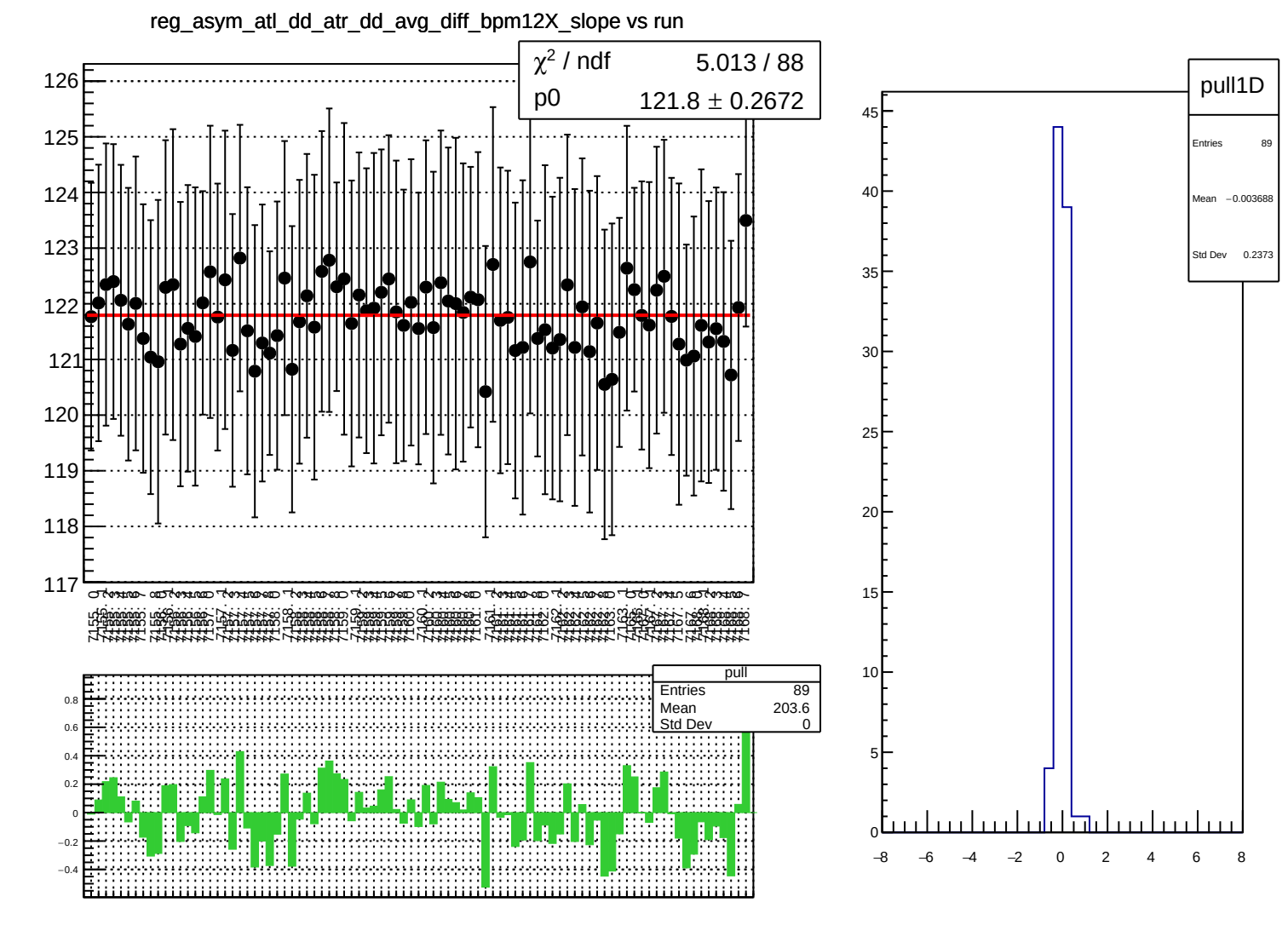

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 23.16 / 88
p0 211.9 ± 7.675
pull
Entries 89
Mean 242
Std Dev 0
pull1D
Entries 89
Mean 0.04777
Std Dev 0.5079

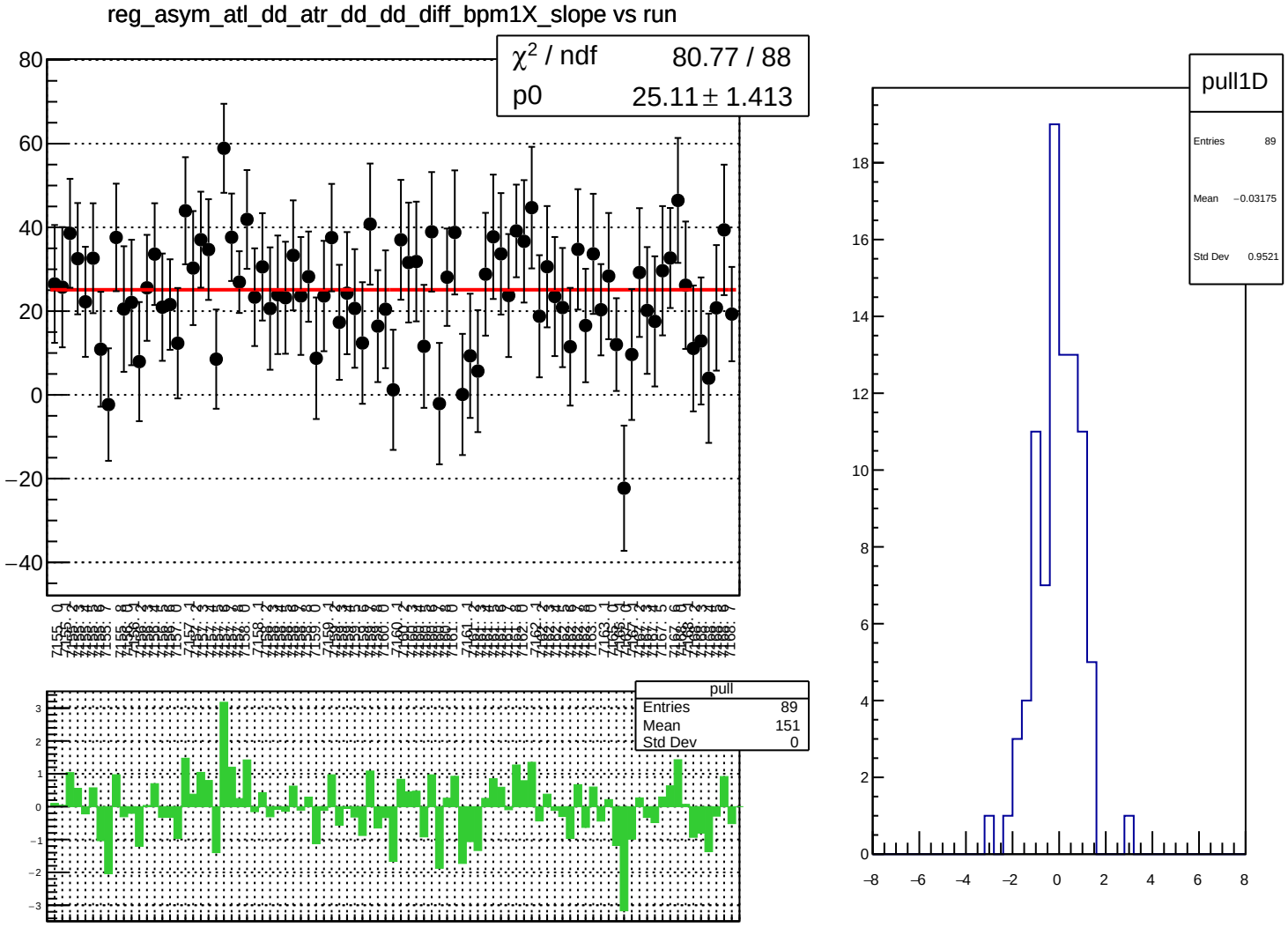

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.814 / 88
p0 10.18 ± 6.063
pull
Entries 89
Mean 1122
Std Dev 0
pull1D
Entries 89
Mean −0.005059
Std Dev 0.3146

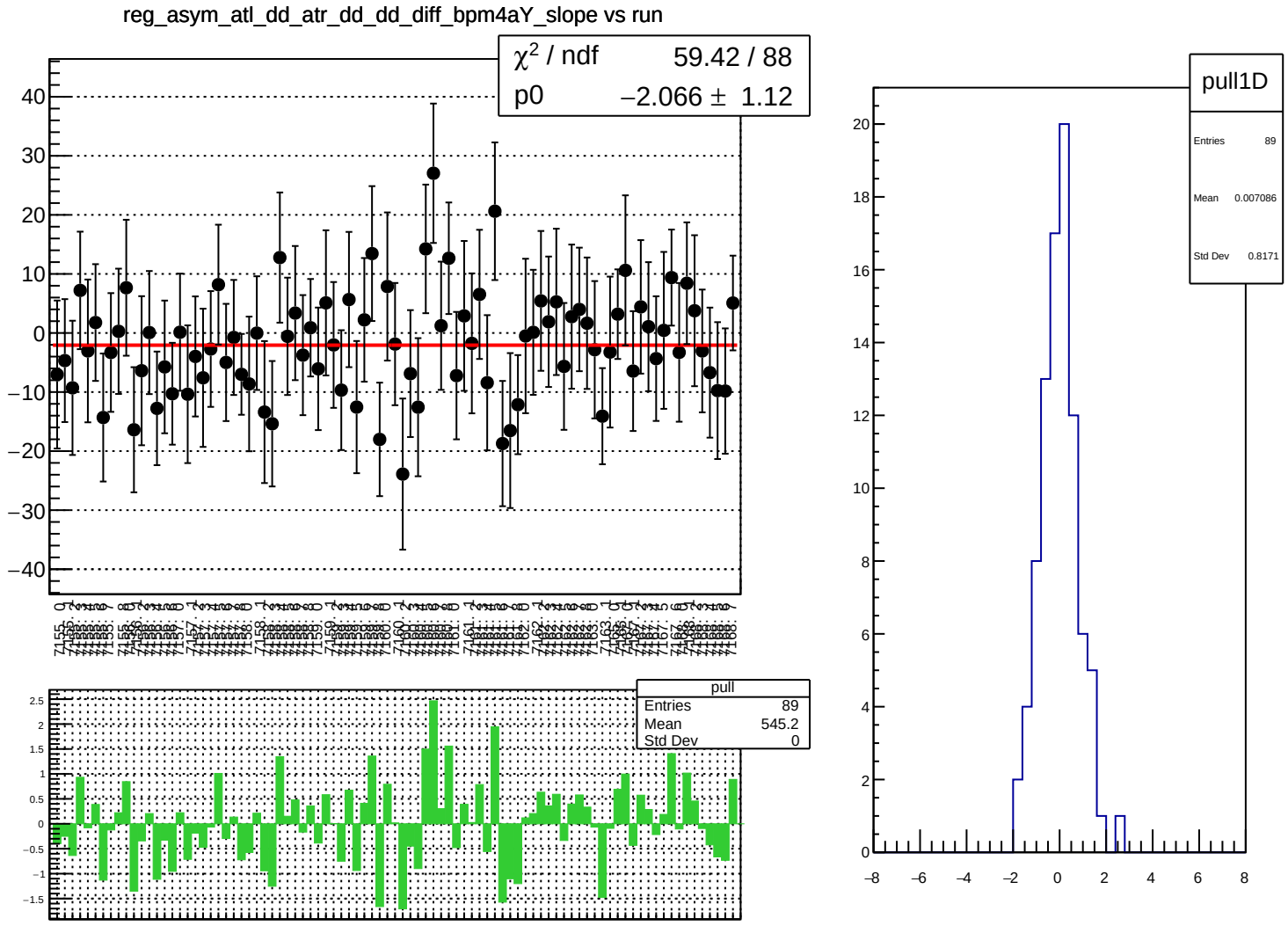

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.22 / 88
p0 −230.3 ± 7.776
pull
Entries 89
Mean 242.9
Std Dev 0

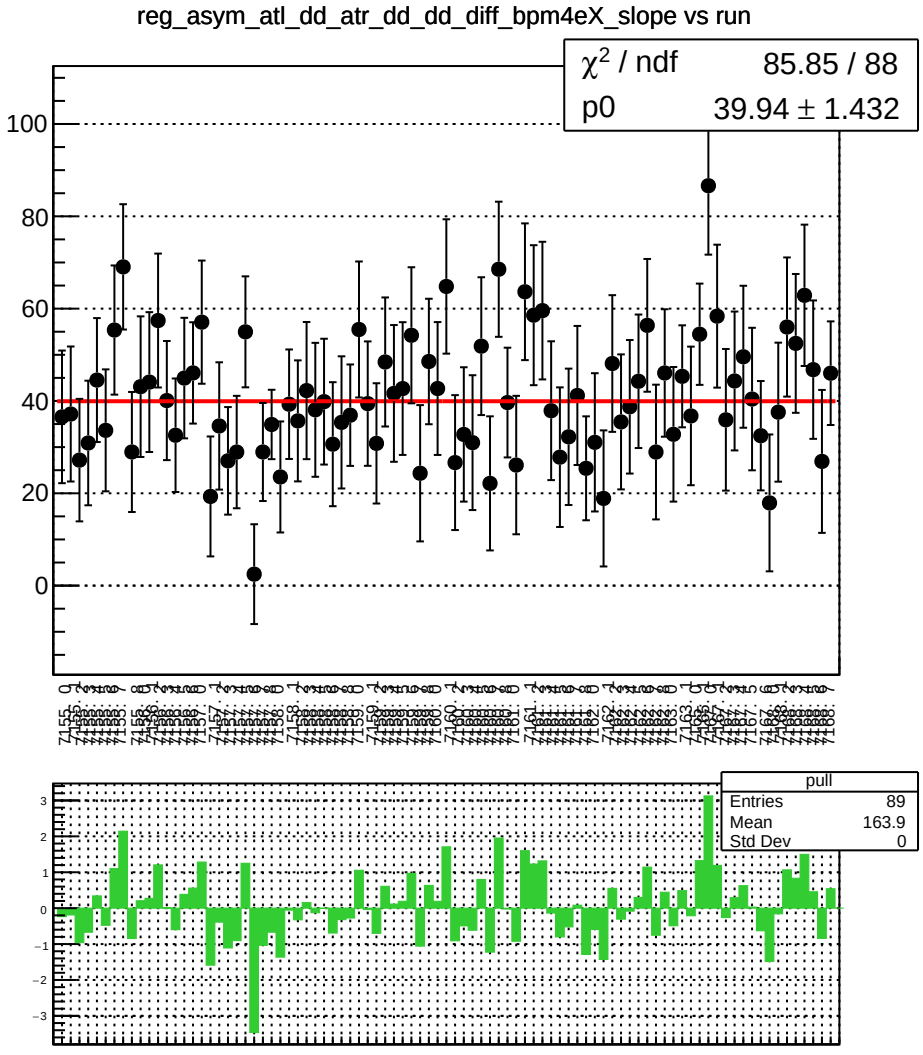

pull1D
Entries 89
Mean −0.04586
Std Dev 0.4976

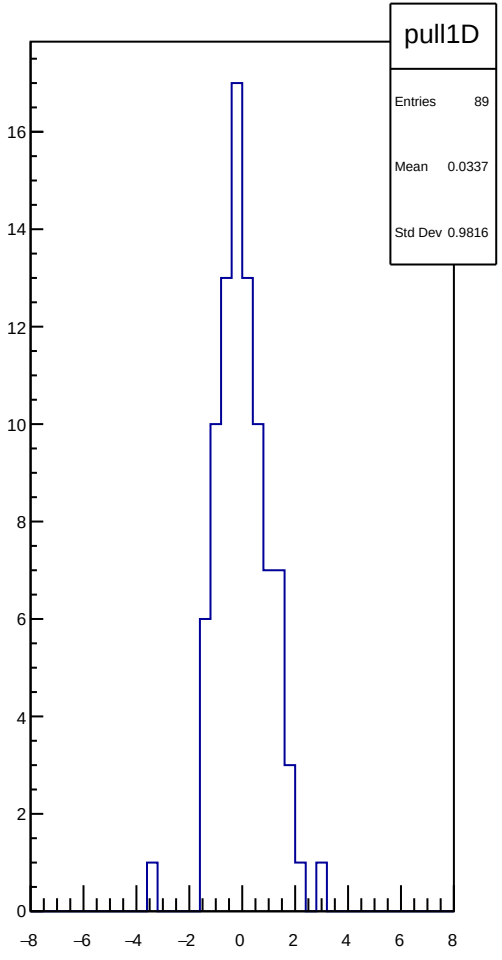

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 88
p0 −85.87 ± 7.042
pull
Entries 89
Mean 540.2
Std Dev 0
pull1D
Entries 89
Mean 0.01306
Std Dev 0.3628

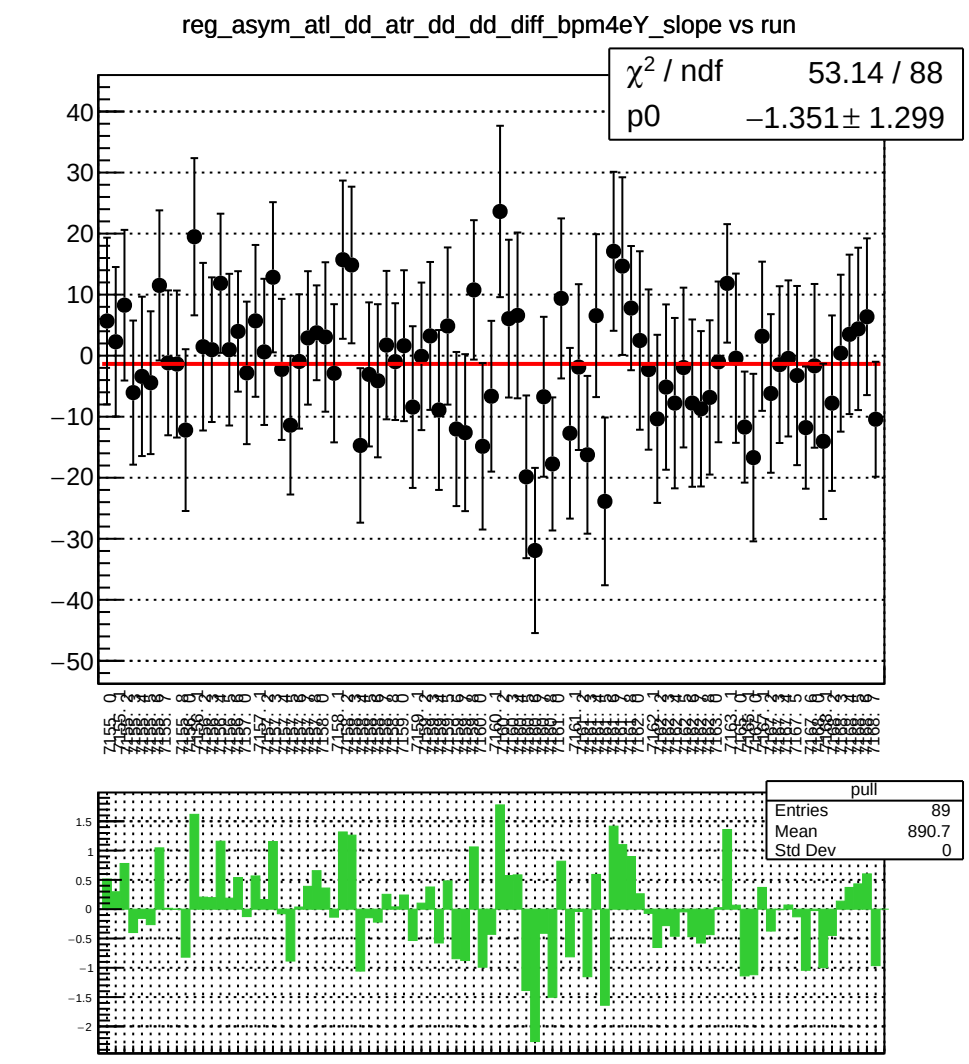

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5.013 / 88
p0 121.8 ± 0.2672
pull
Entries 89
Mean 203.6
Std Dev 0
pull1D
Entries 89
Mean −0.003688
Std Dev 0.2373

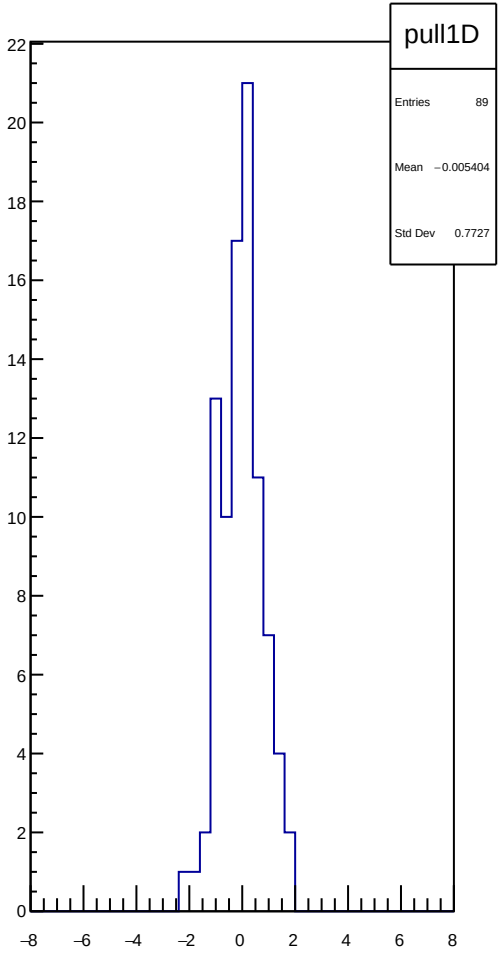

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 80.77 / 88
p0 25.11 ± 1.413
pull
Entries 89
Mean 151
Std Dev 0
pull1D
Entries 89
Mean −0.03175
Std Dev 0.9521

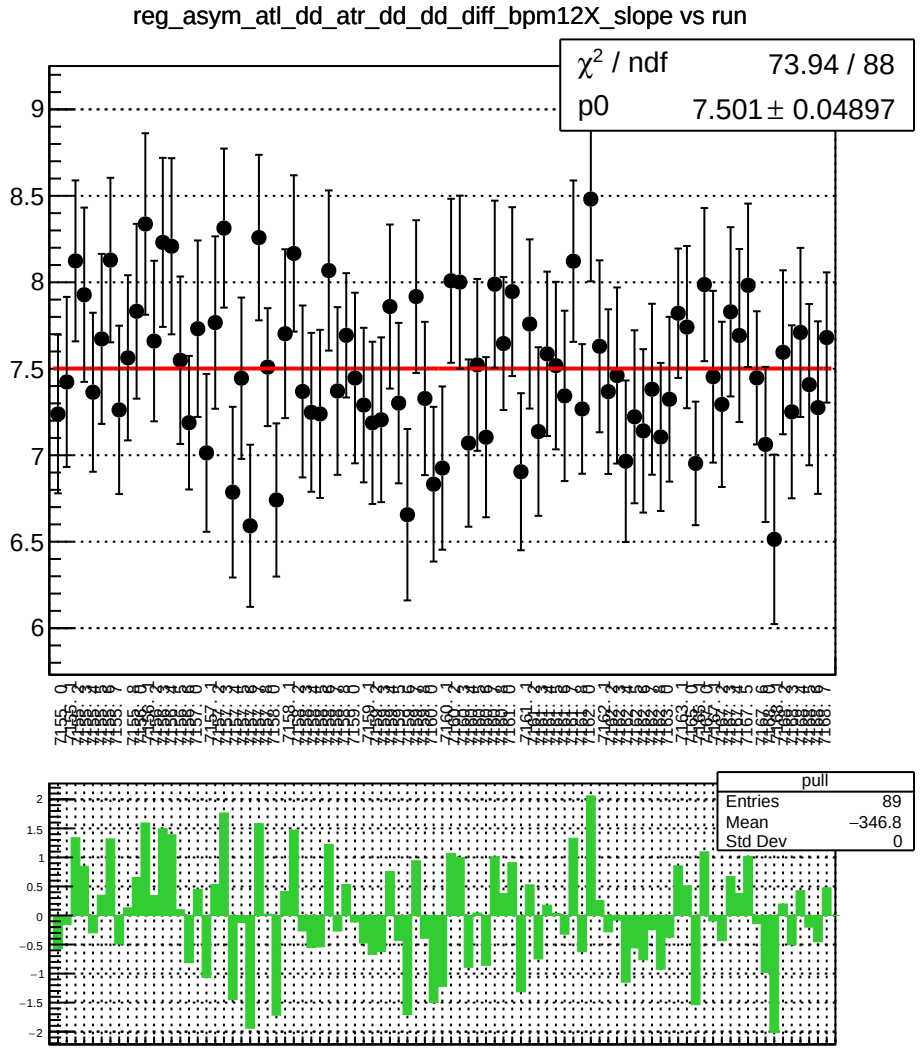

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 59.42 / 88
p0 −2.066 ± 1.12
pull
Entries 89
Mean 545.2
Std Dev 0
pull1D
Entries 89
Mean 0.007086
Std Dev 0.8171

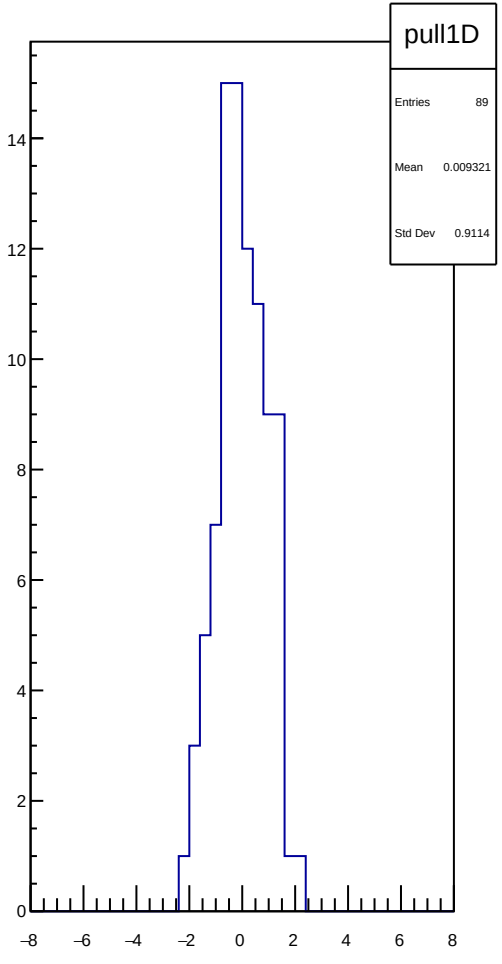

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.85 / 88
p0 39.94 ± 1.432
pull
Entries 89
Mean 163.9
Std Dev 0

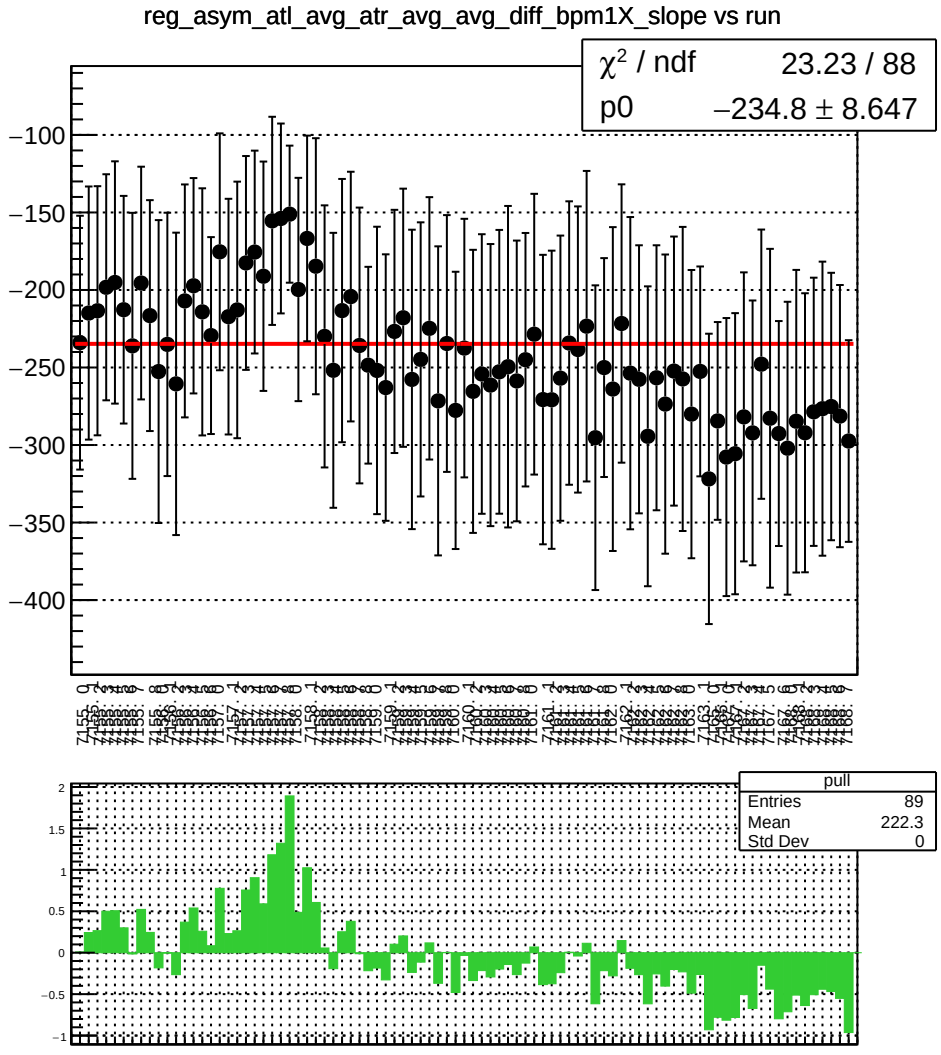

pull1D
Entries 89
Mean 0.0337
Std Dev 0.9816

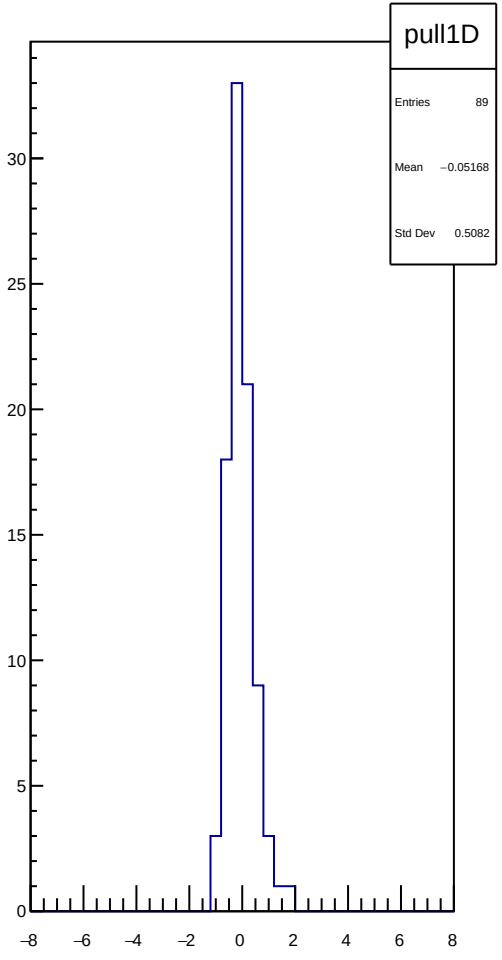

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 53.14 / 88
p0 −1.351 ± 1.299
pull
Entries 89
Mean 890.7
Std Dev 0

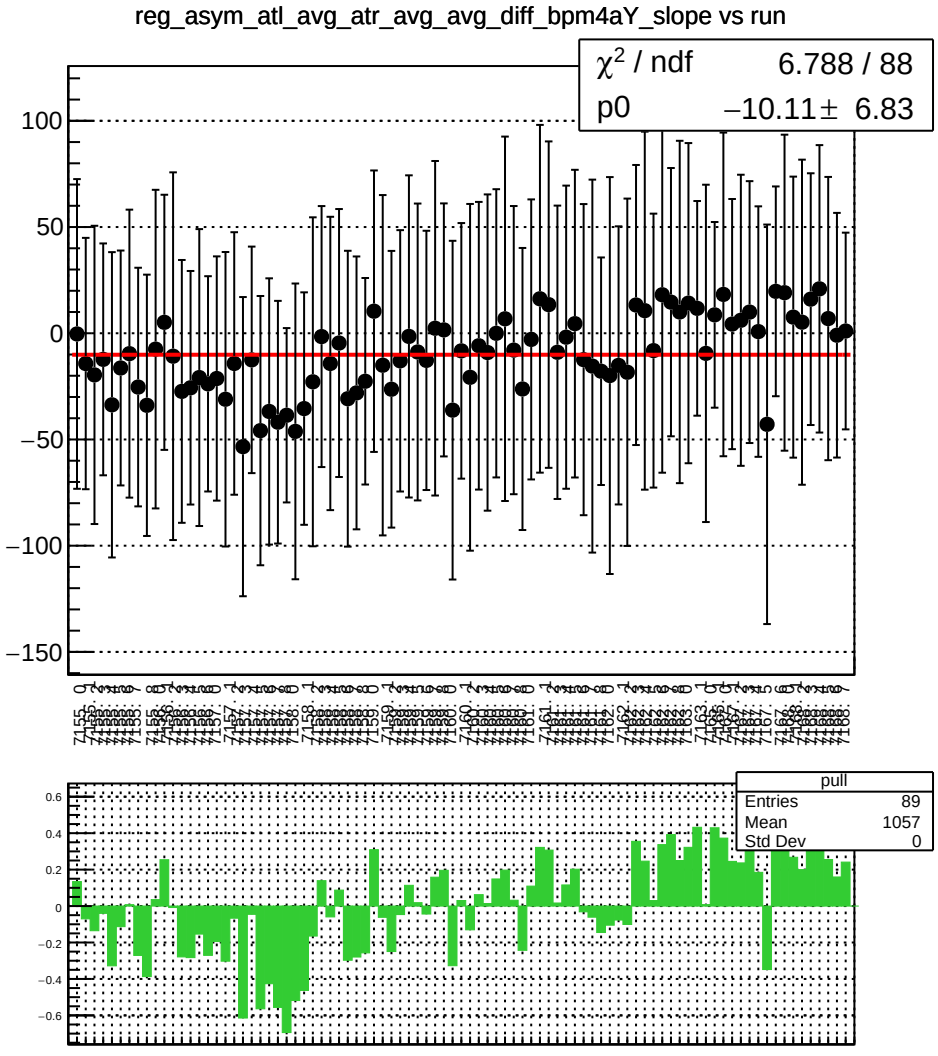

pull1D
Entries 89
Mean −0.005404
Std Dev 0.7727

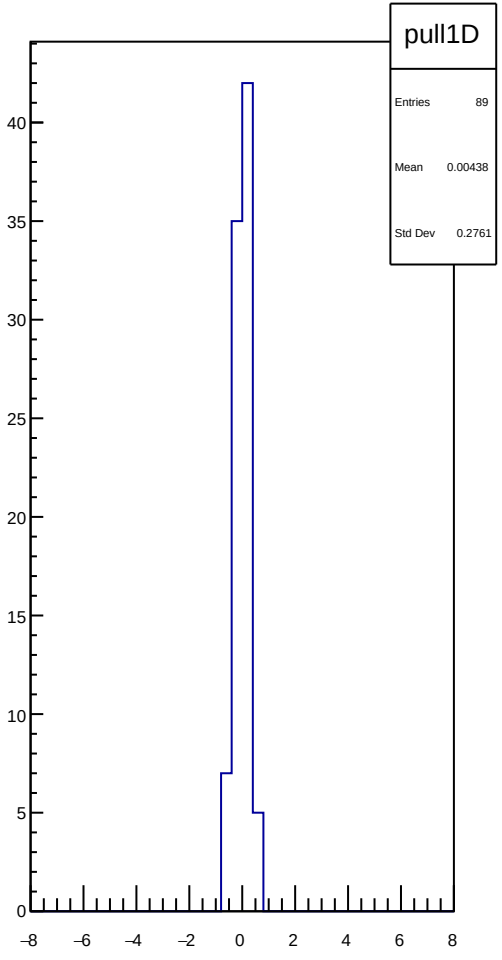

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 73.94 / 88
p0 7.501 ± 0.04897
pull
Entries 89
Mean −346.8
Std Dev 0

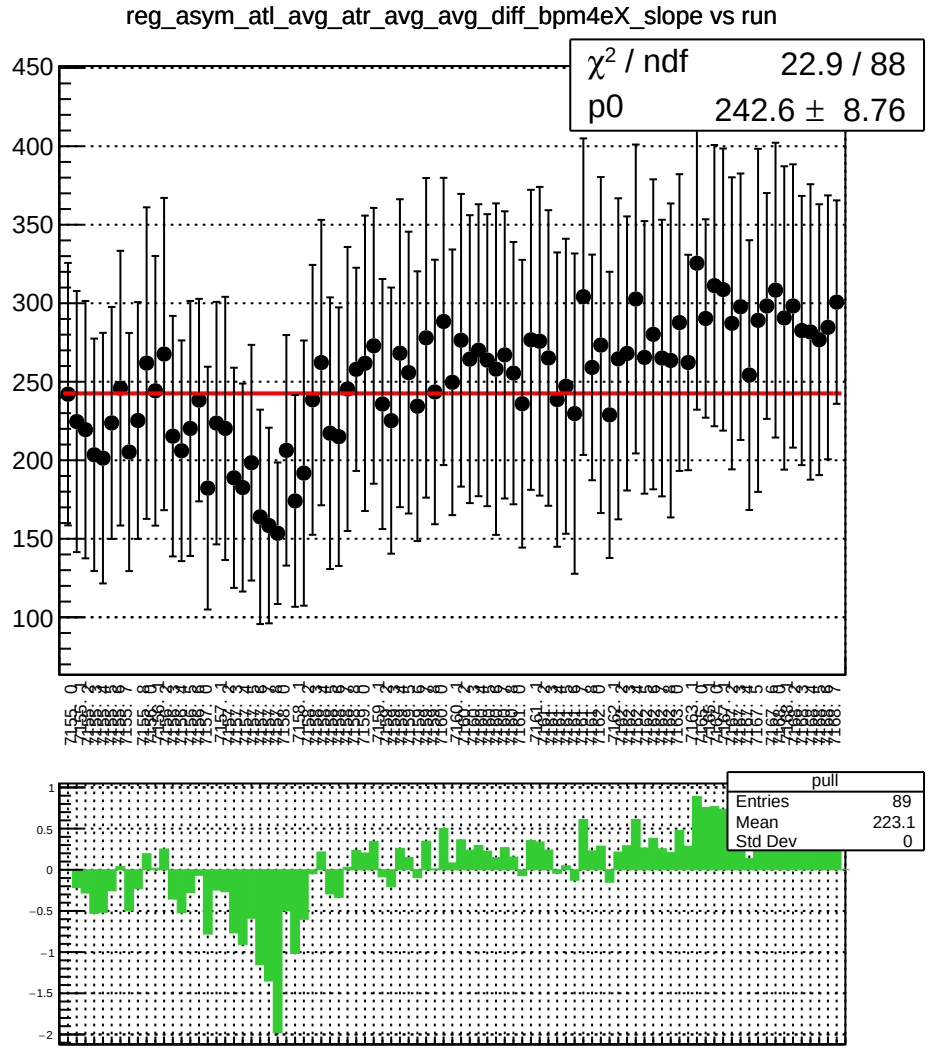

pull1D
Entries 89
Mean 0.009321
Std Dev 0.9114

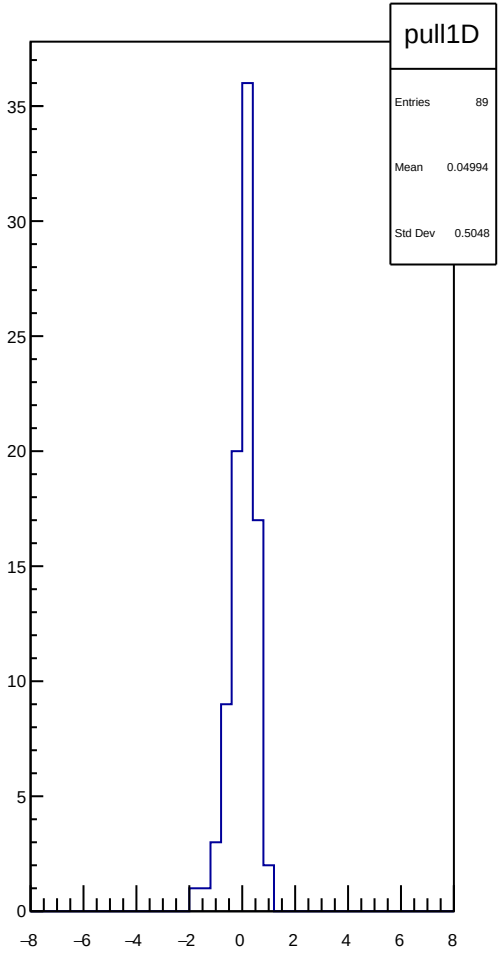

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 23.23 / 88
p0 −234.8 ± 8.647
pull
Entries 89
Mean 222.3
Std Dev 0

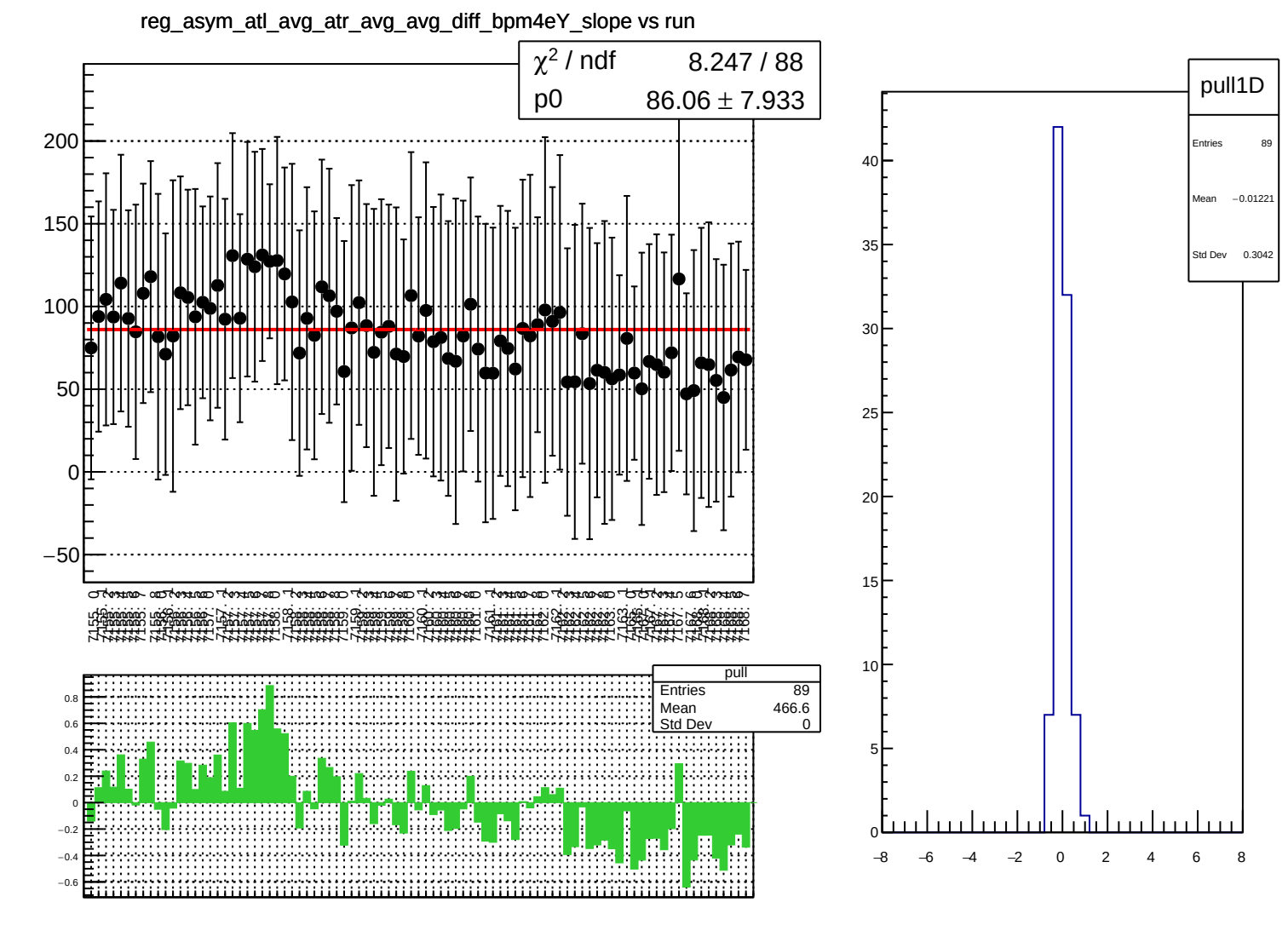

pull1D
Entries 89
Mean −0.05168
Std Dev 0.5082

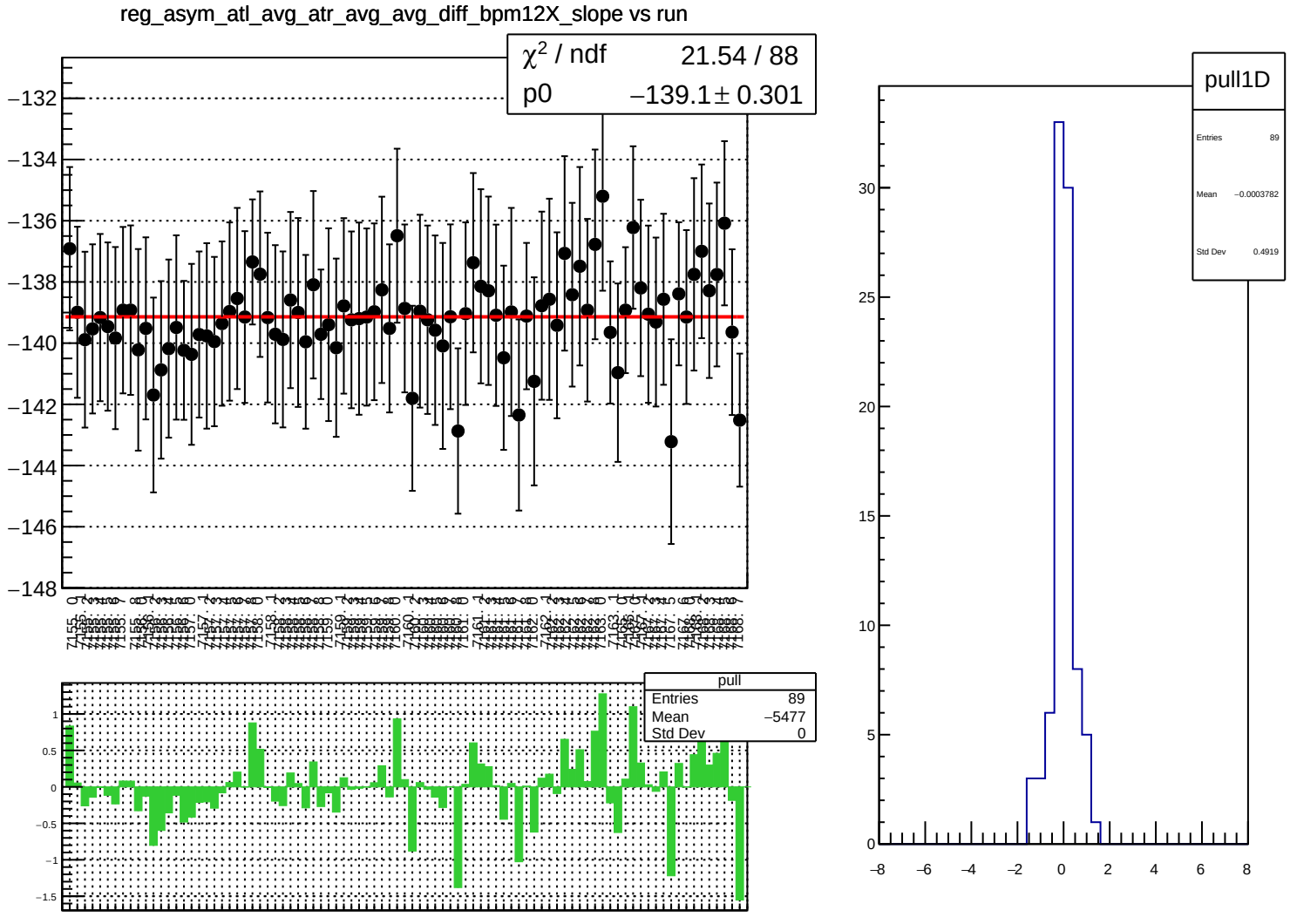

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.788 / 88
p0 −10.11± 6.83
pull
Entries 89
Mean 1057
Std Dev 0

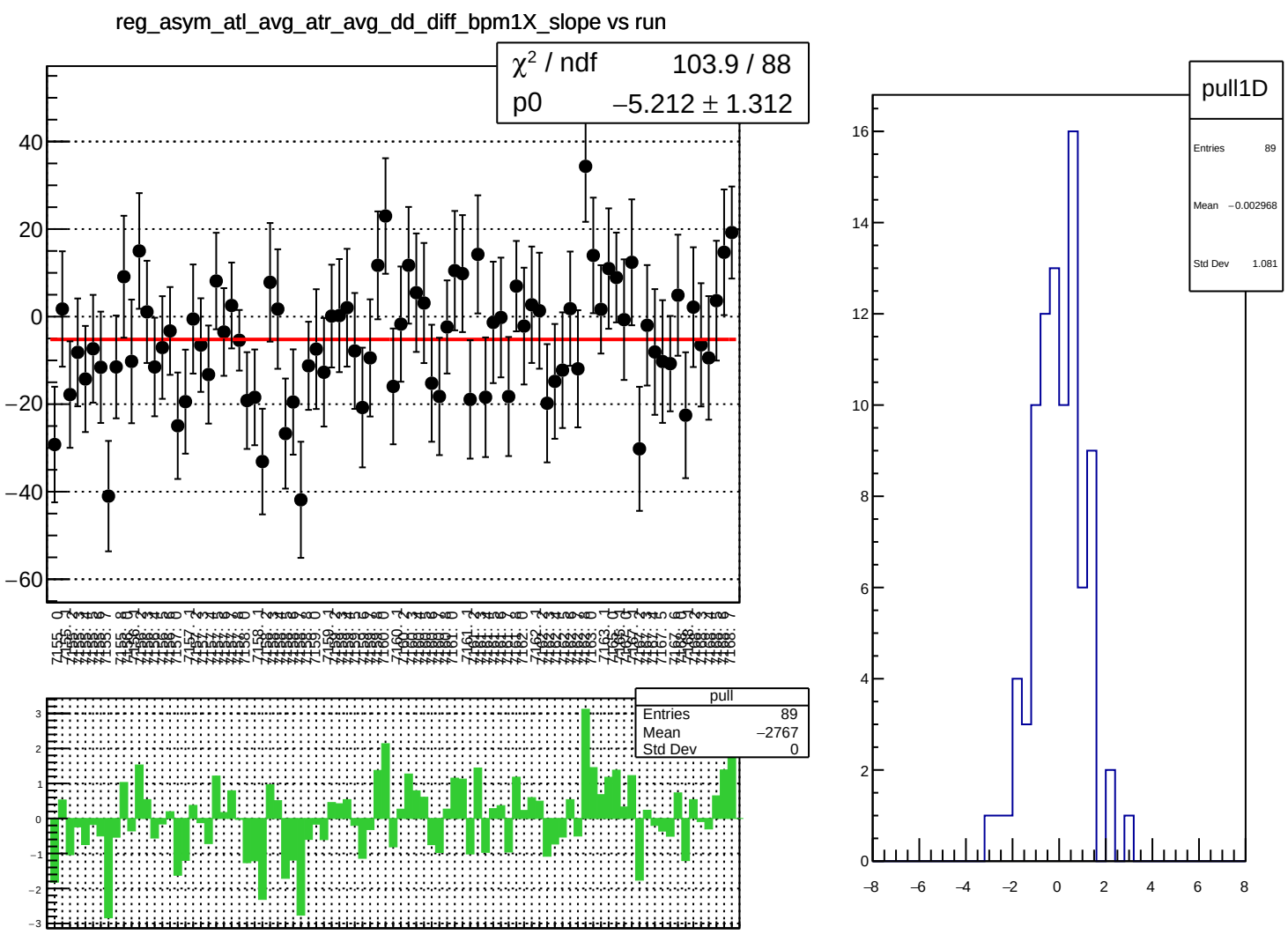

pull1D
Entries 89
Mean 0.00438
Std Dev 0.2761

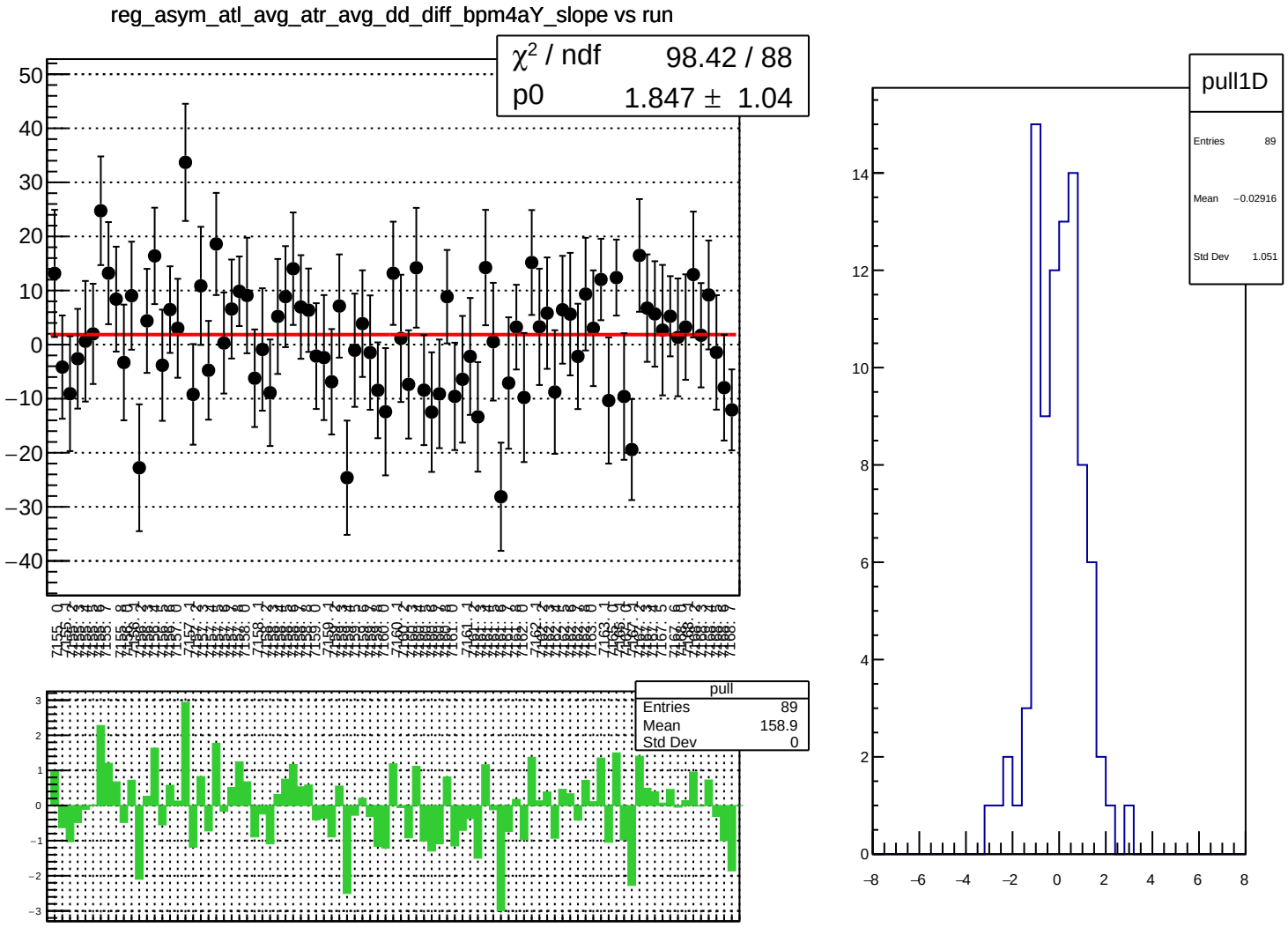

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 22.9 / 88
p0 242.6 ± 8.76
pull
Entries 89
Mean 223.1
Std Dev 0

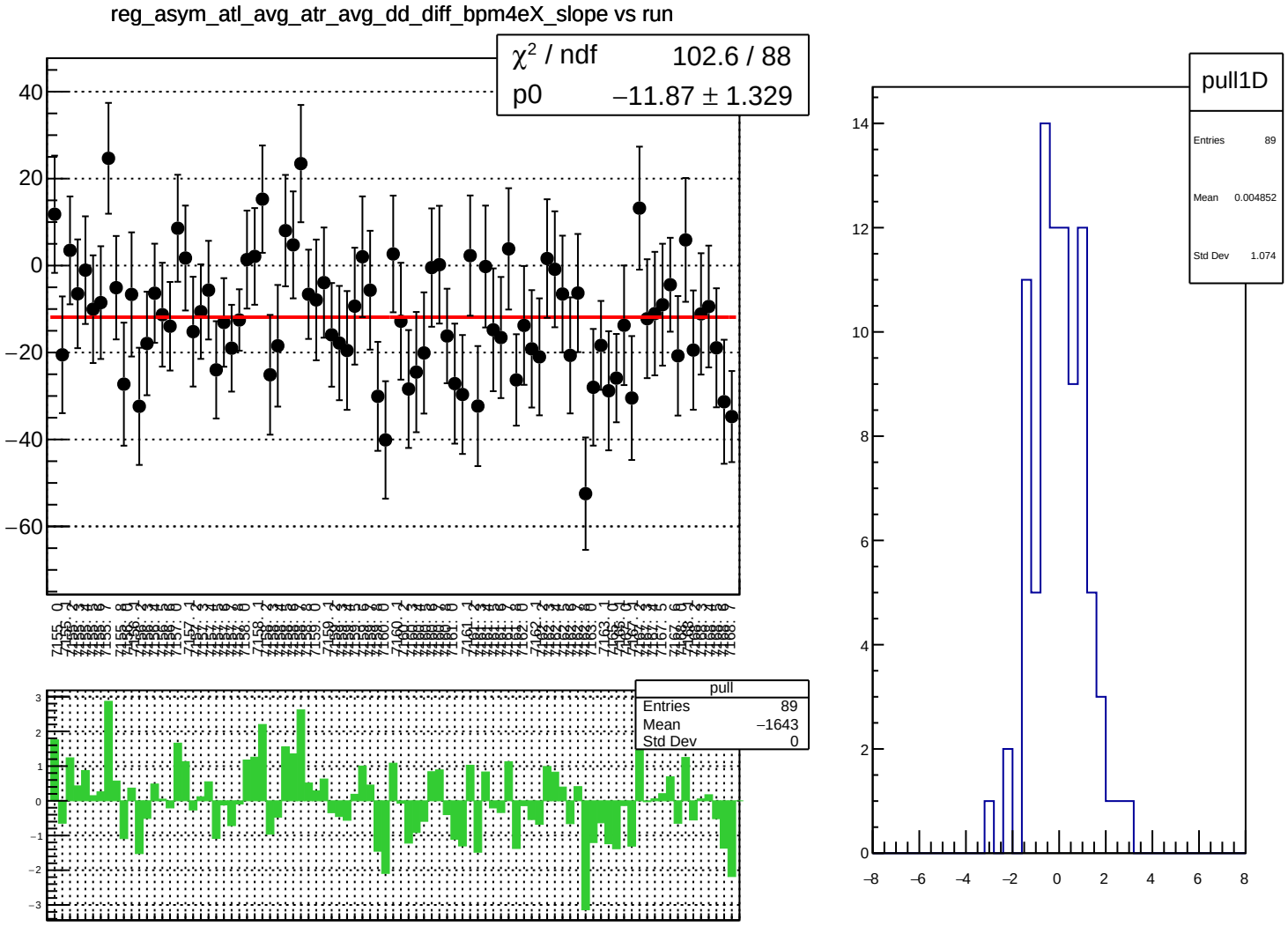

pull1D
Entries 89
Mean 0.04994
Std Dev 0.5048

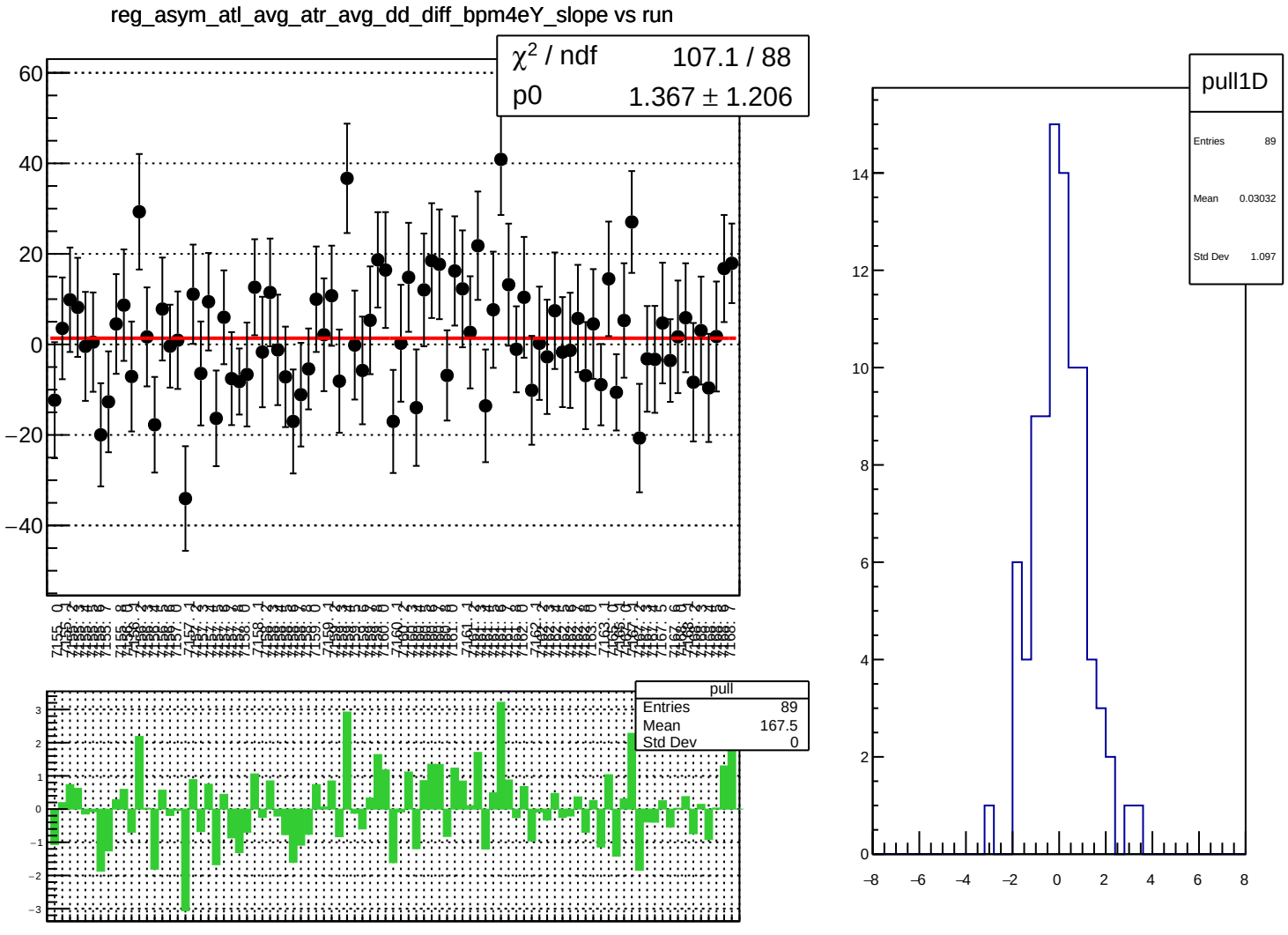

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.247 / 88
p0 86.06 ± 7.933
pull
Entries 89
Mean 466.6
Std Dev 0
pull1D
Entries 89
Mean −0.01221
Std Dev 0.3042

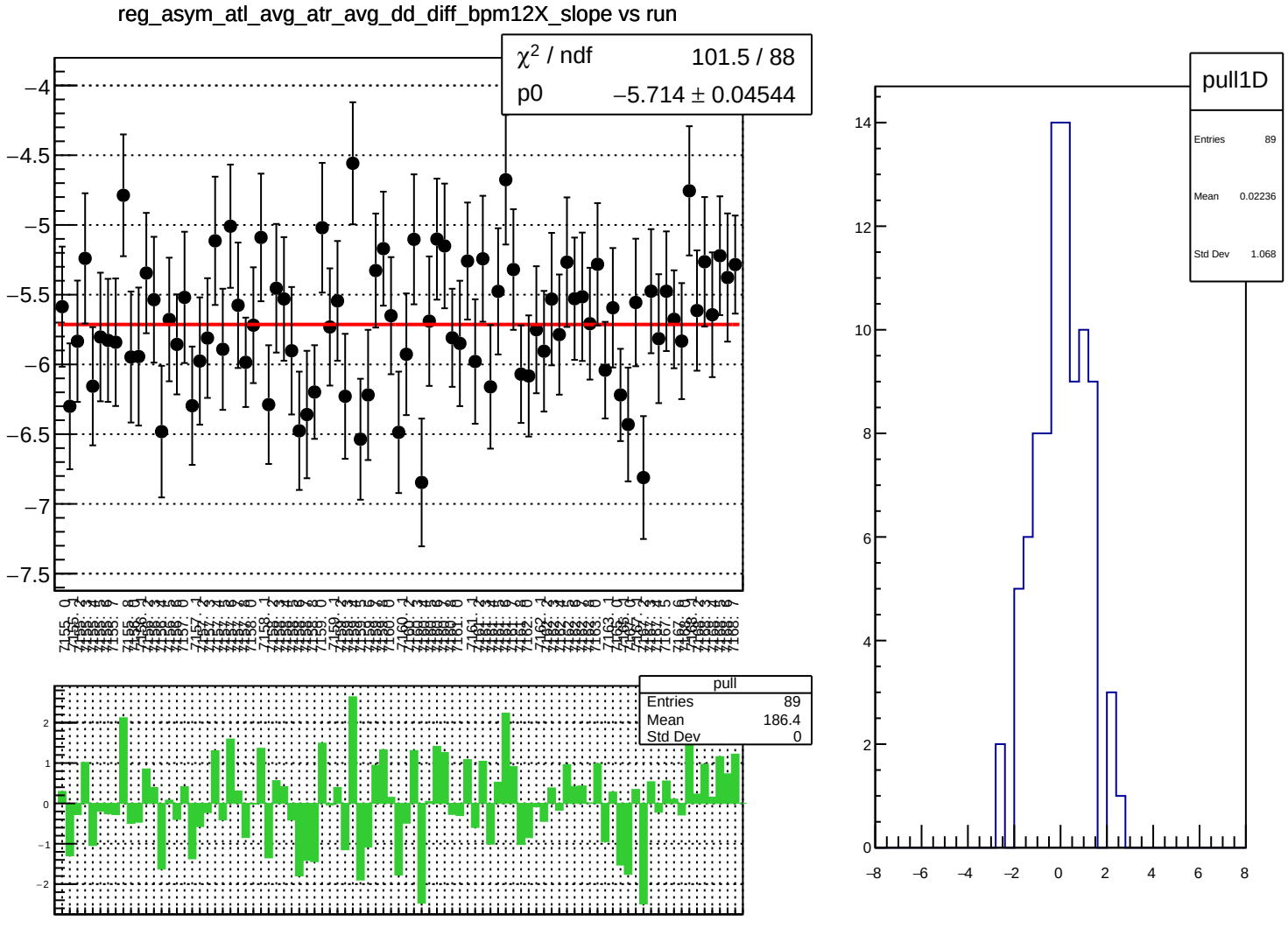

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 21.54 / 88
p0 −139.1 ± 0.301
pull
Entries 89
Mean −5477
Std Dev 0
pull1D
Entries 89
Mean −0.0003782
Std Dev 0.4919

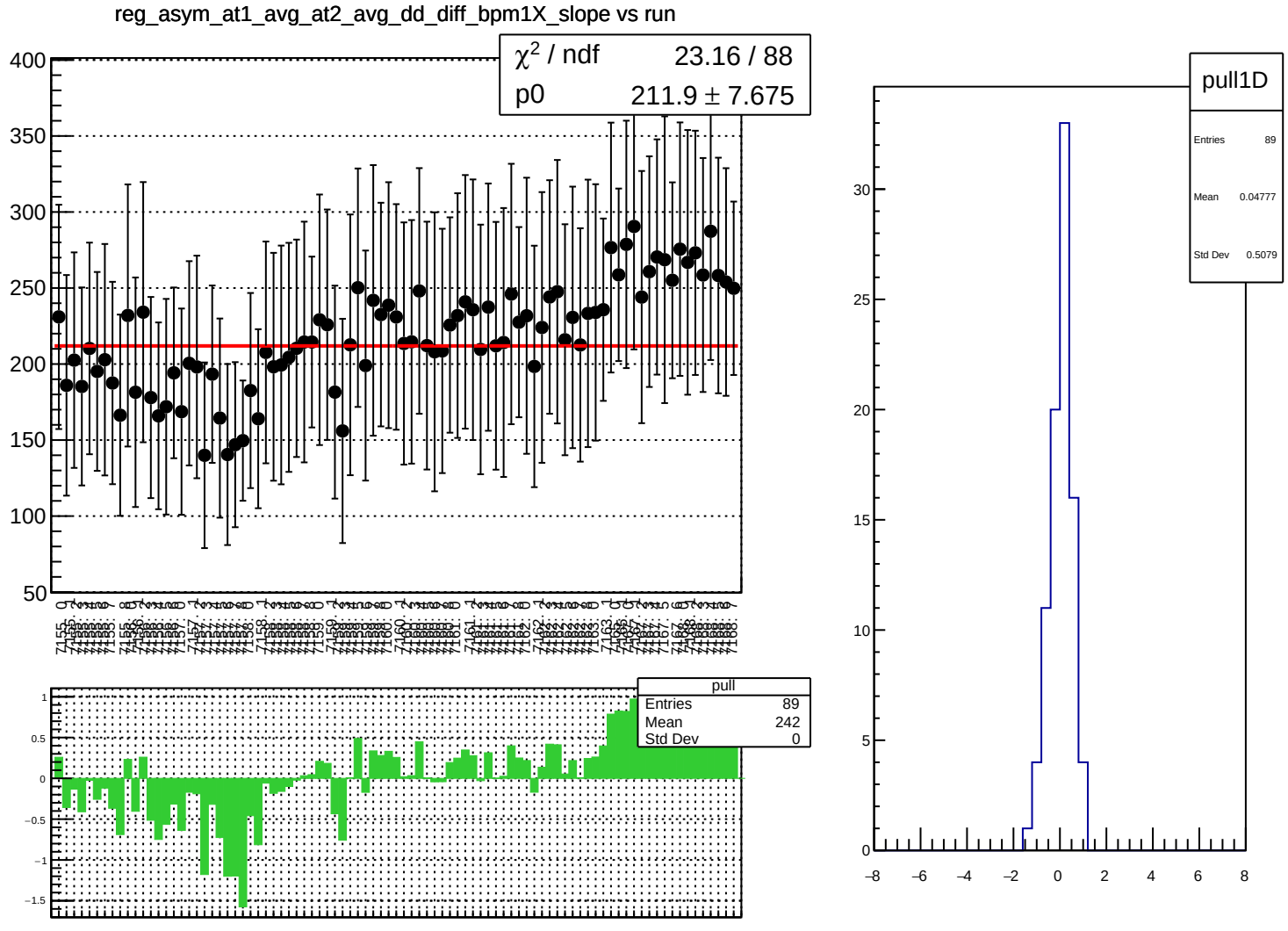

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 103.9 / 88
p0 −5.212 ± 1.312
pull
Entries 89
Mean −2767
Std Dev 0
pull1D
Entries 89
Mean −0.002968
Std Dev 1.081

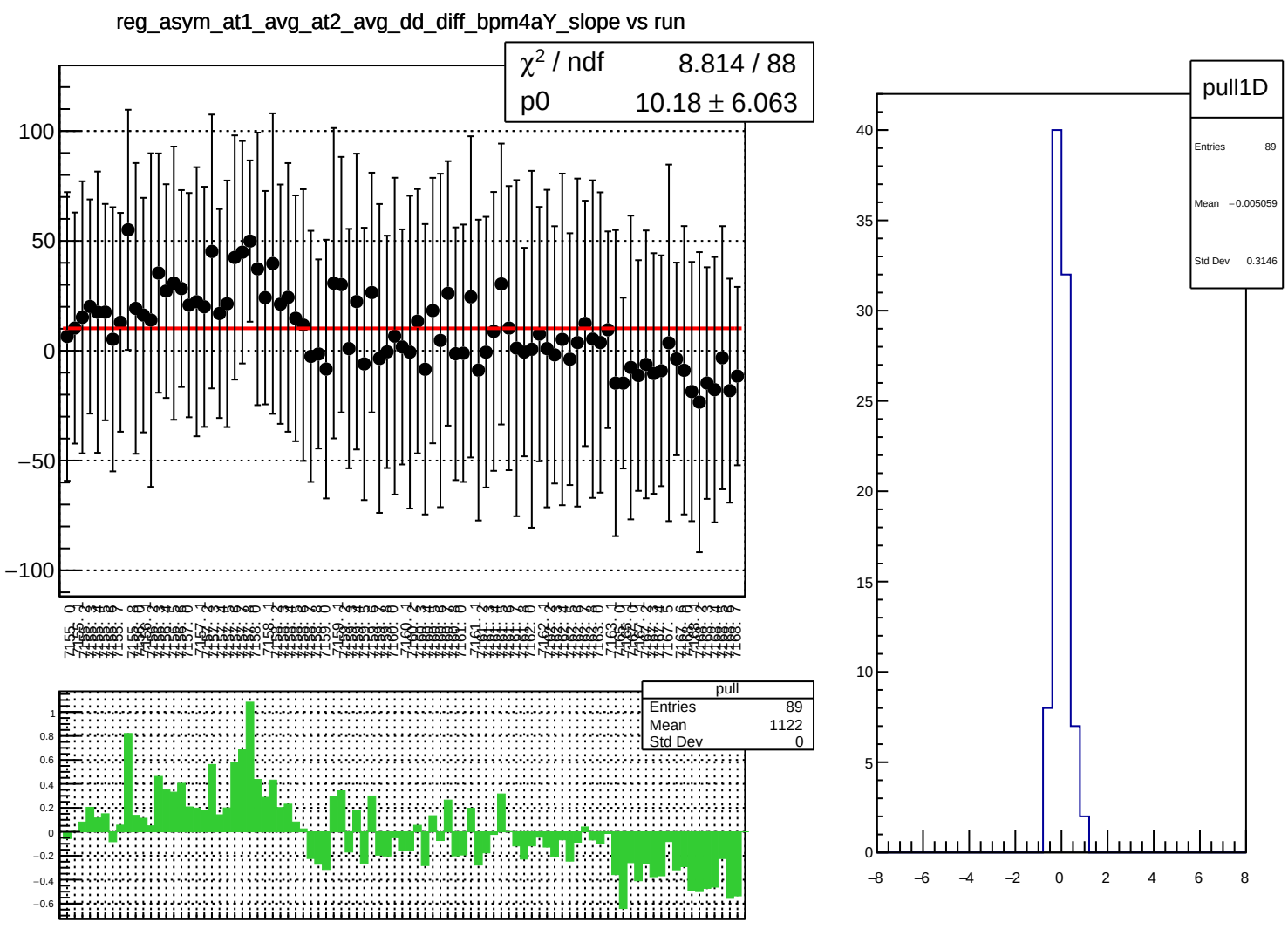

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 98.42 / 88
p0 1.847 ± 1.04
pull
Entries 89
Mean 158.9
Std Dev 0
pull1D
Entries 89
Mean −0.02916
Std Dev 1.051

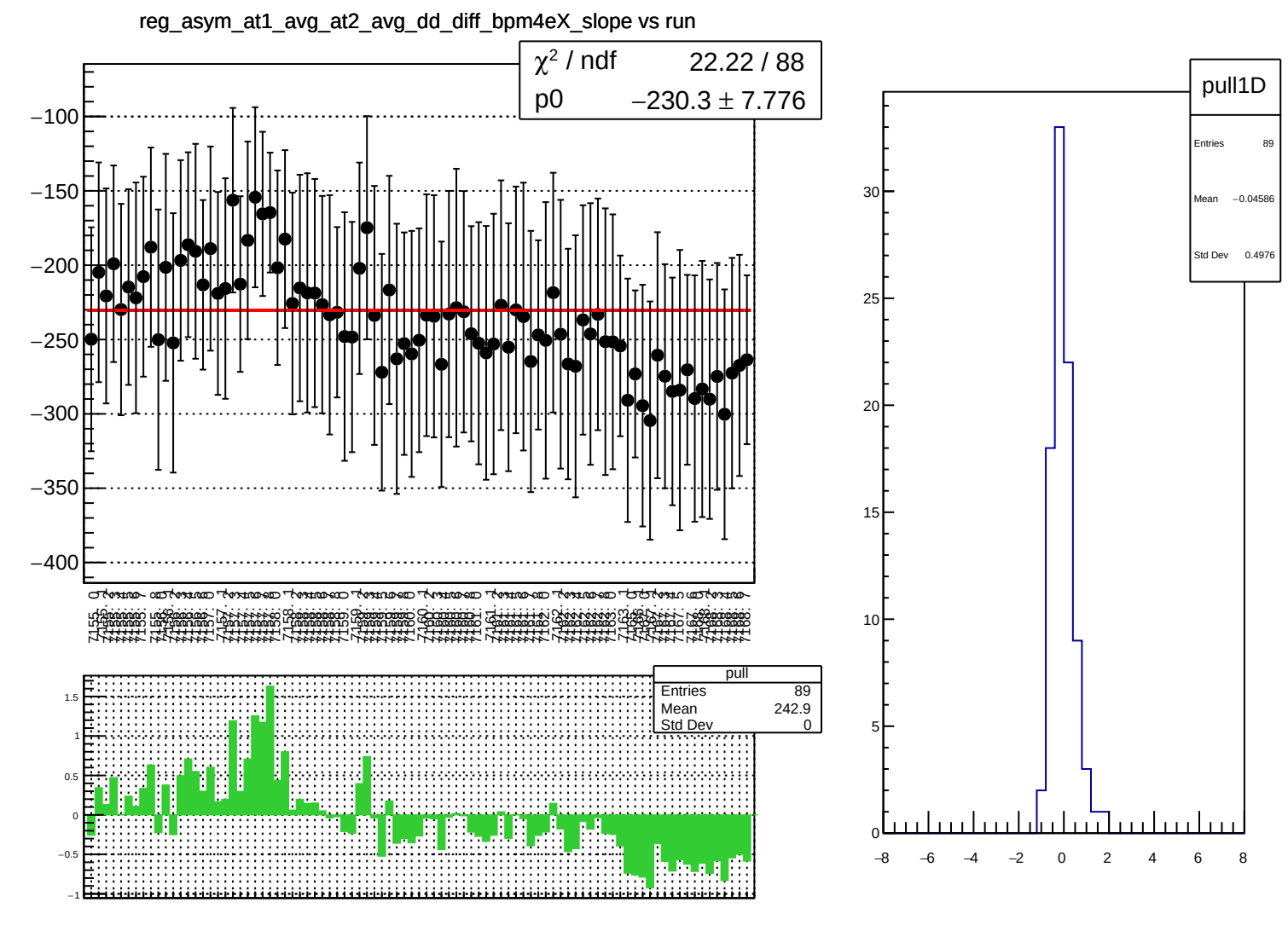

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.6 / 88
p0 −11.87 ± 1.329
pull
Entries 89
Mean −1643
Std Dev 0
pull1D
Entries 89
Mean 0.004852
Std Dev 1.074

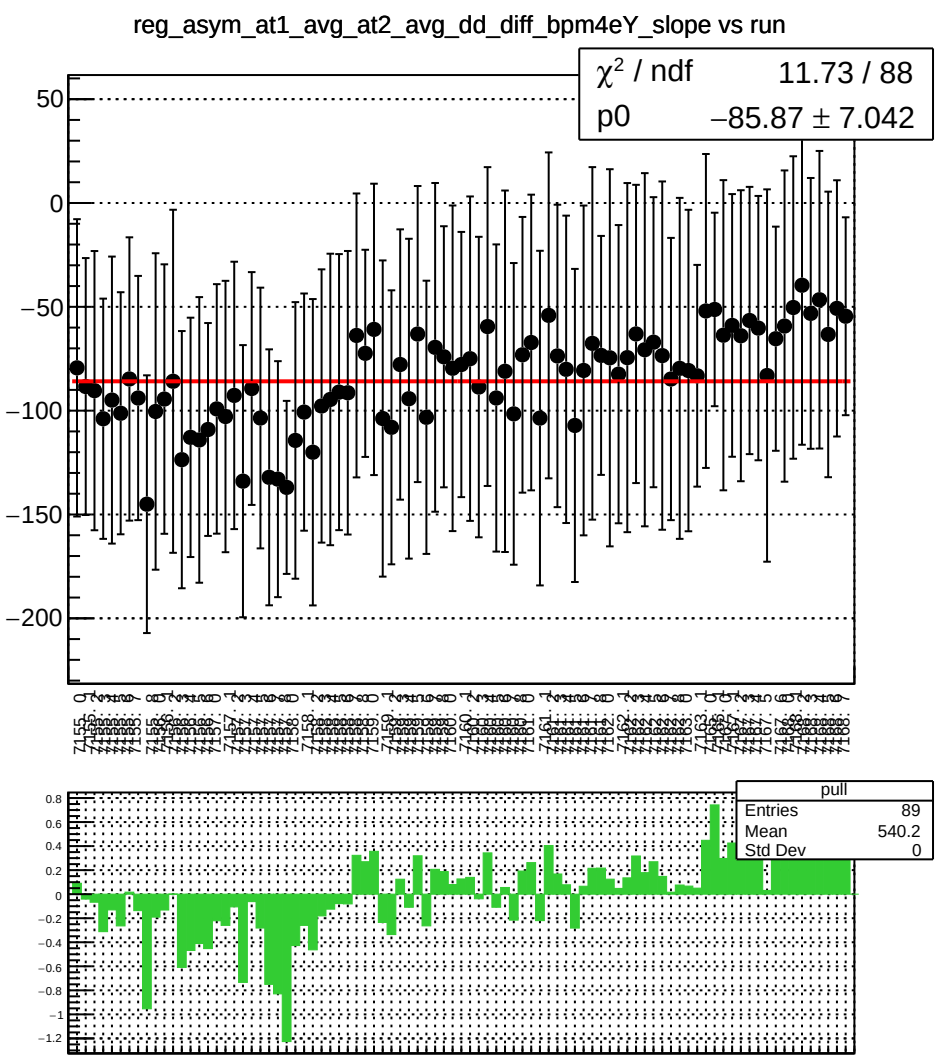

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 107.1 / 88
p0 1.367 ± 1.206
pull
Entries 89
Mean 167.5
Std Dev 0
pull1D
Entries 89
Mean 0.03032
Std Dev 1.097

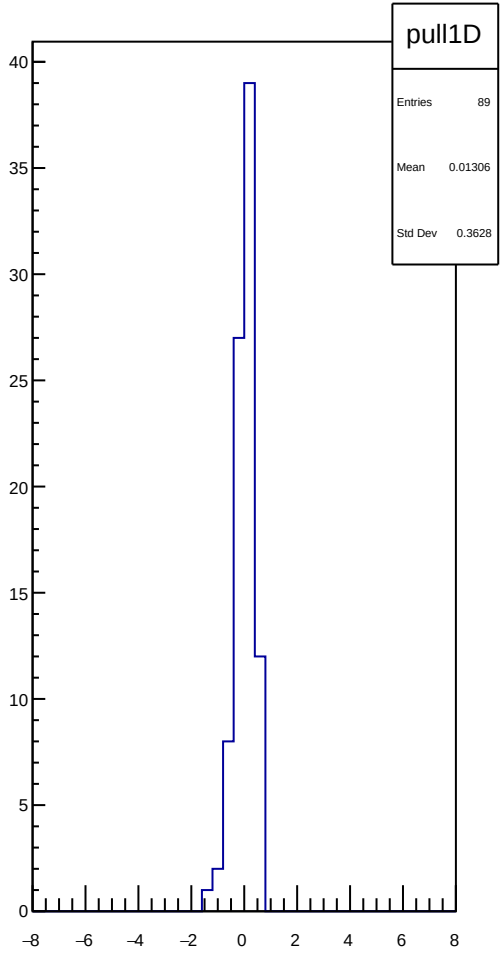

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 101.5 / 88
p0 −5.714 ± 0.04544
pull
Entries 89
Mean 186.4
Std Dev 0
pull1D
Entries 89
Mean 0.02236
Std Dev 1.068

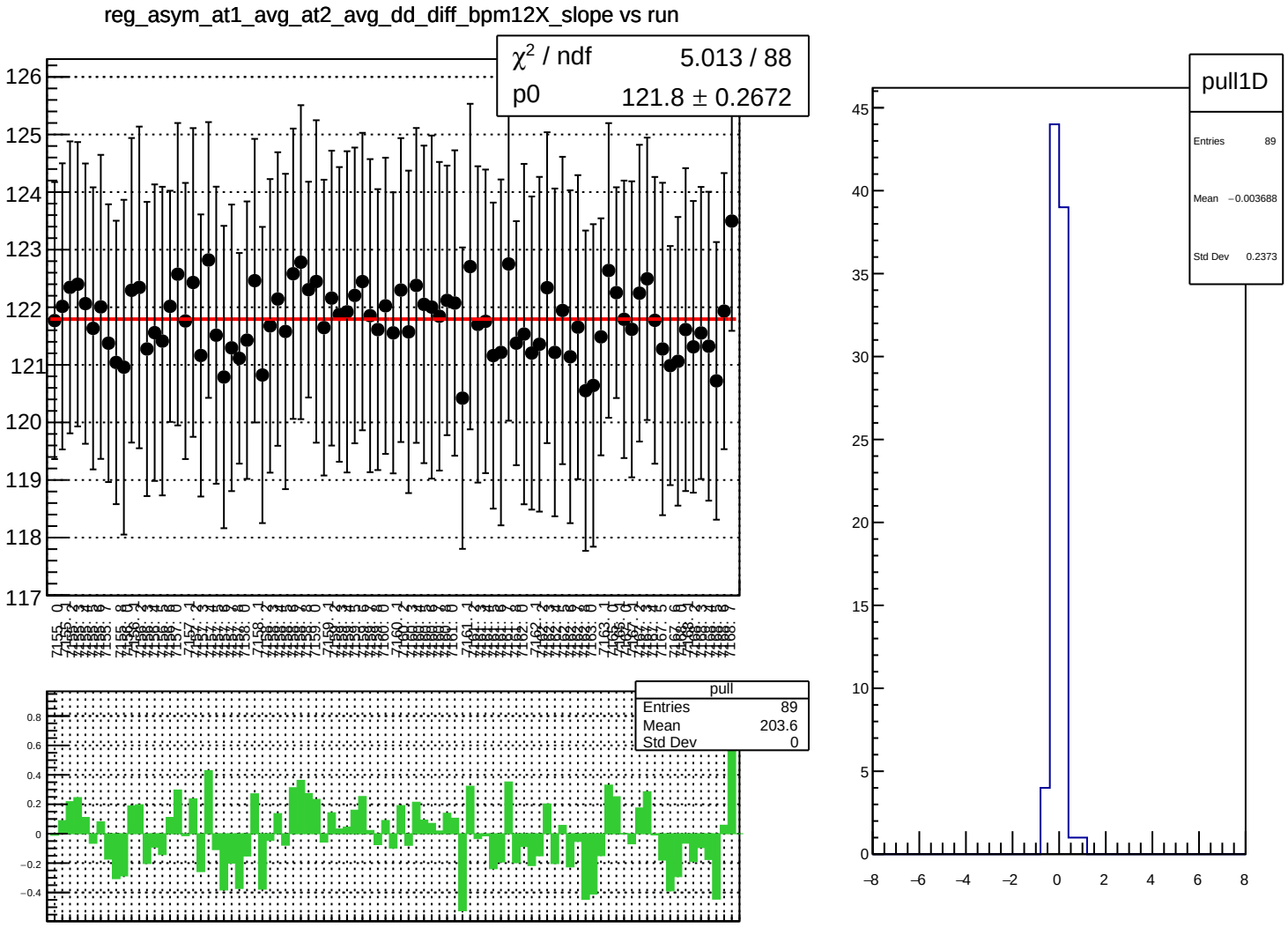

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 23.16 / 88
p0 211.9 ± 7.675
pull
Entries 89
Mean 242
Std Dev 0
pull1D
Entries 89
Mean 0.04777
Std Dev 0.5079

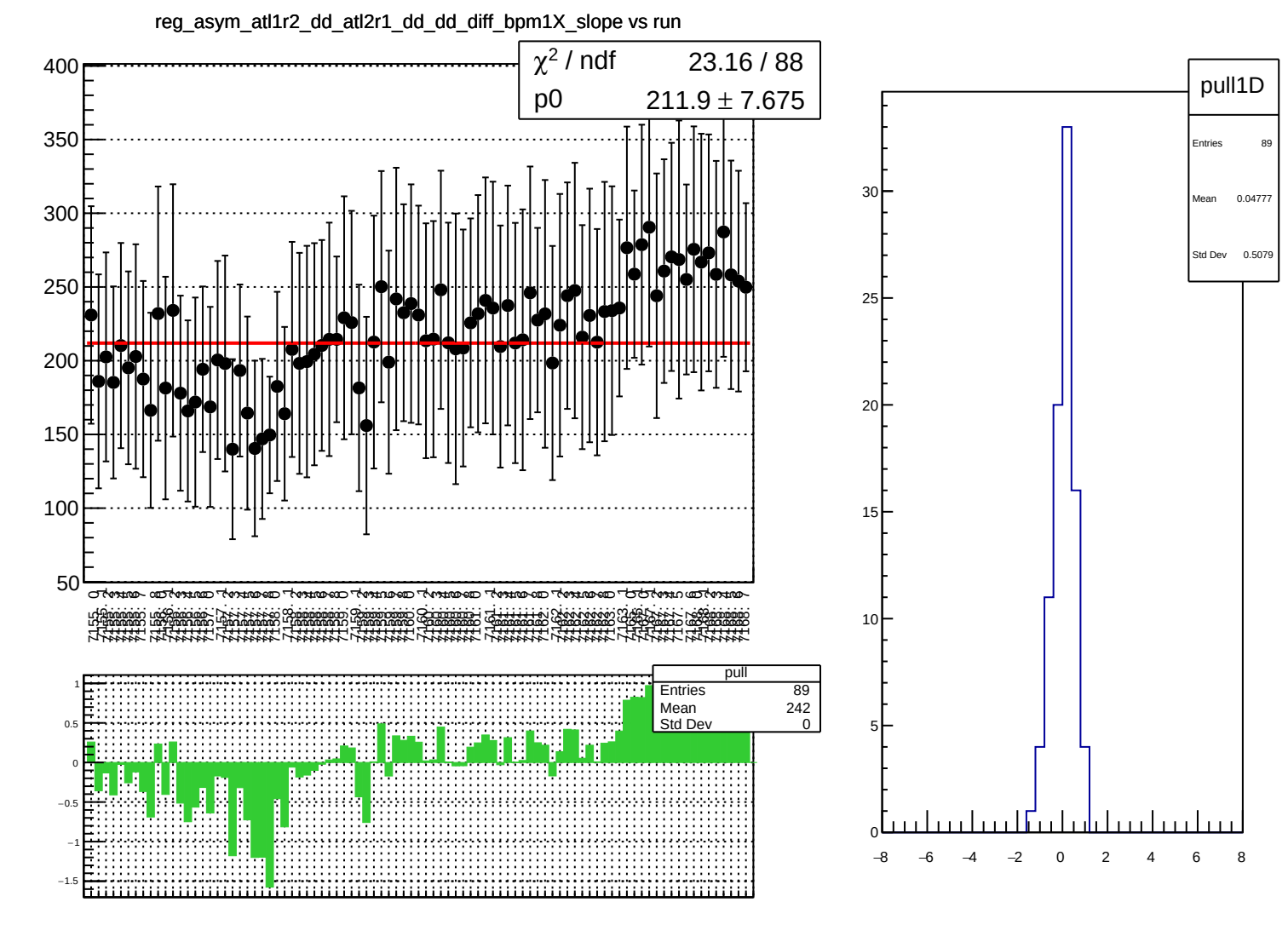

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.814 / 88
p0 10.18 ± 6.063
pull
Entries 89
Mean 1122
Std Dev 0
pull1D
Entries 89
Mean −0.005059
Std Dev 0.3146

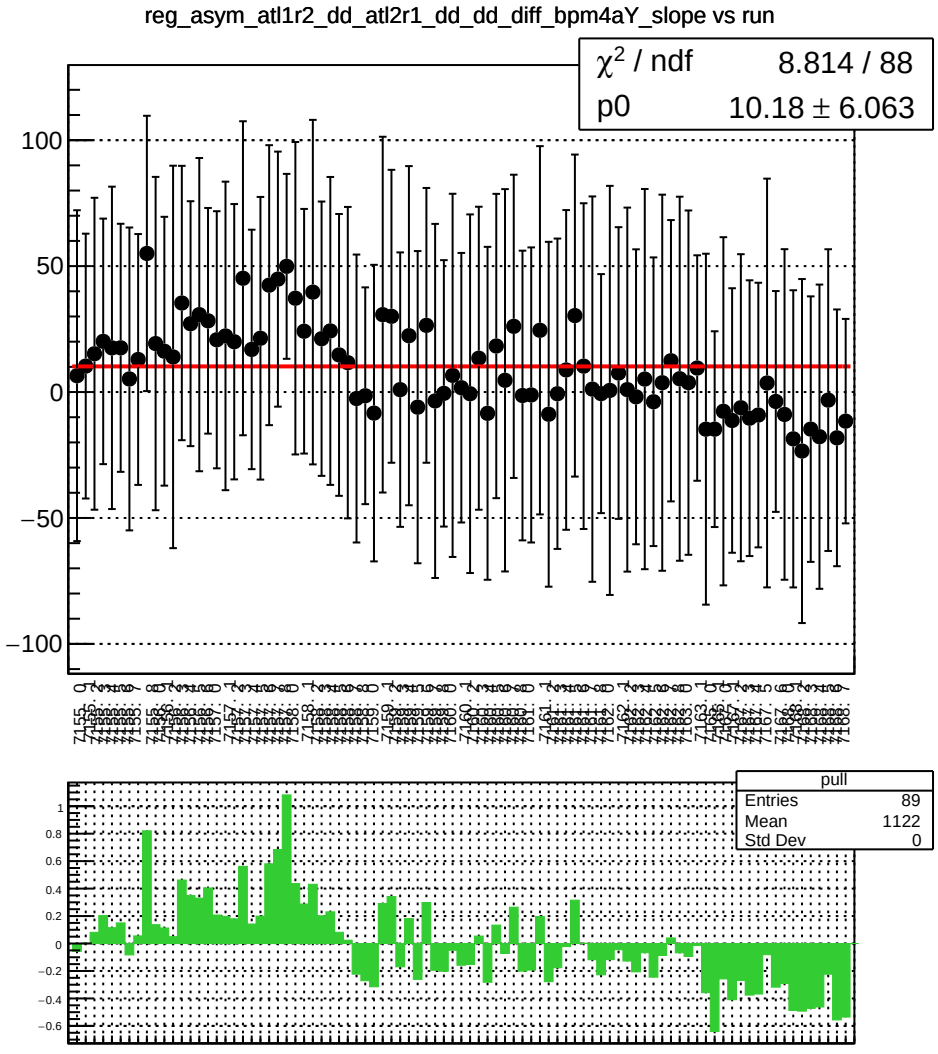

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.22 / 88
p0 −230.3 ± 7.776
pull
Entries 89
Mean 242.9
Std Dev 0
pull1D
Entries 89
Mean −0.04586
Std Dev 0.4976

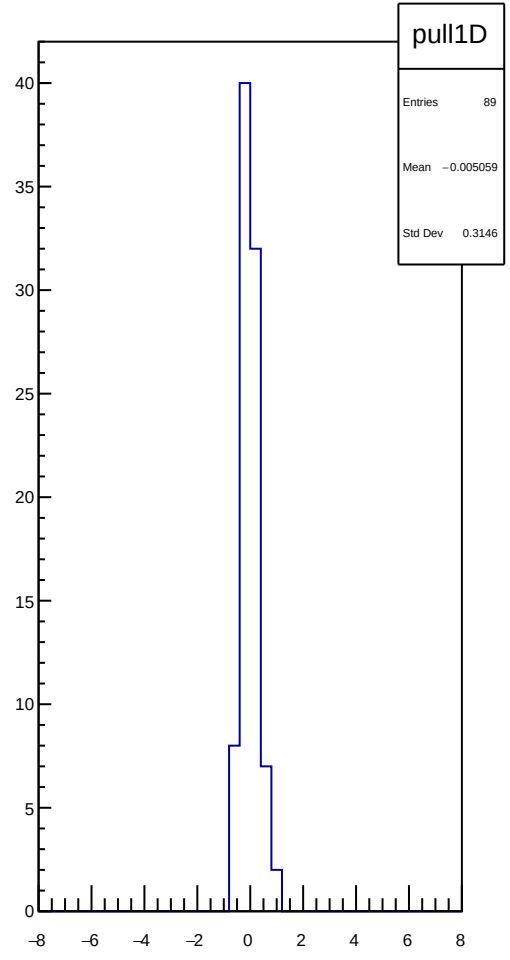

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 88
p0 −85.87 ± 7.042
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 540.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

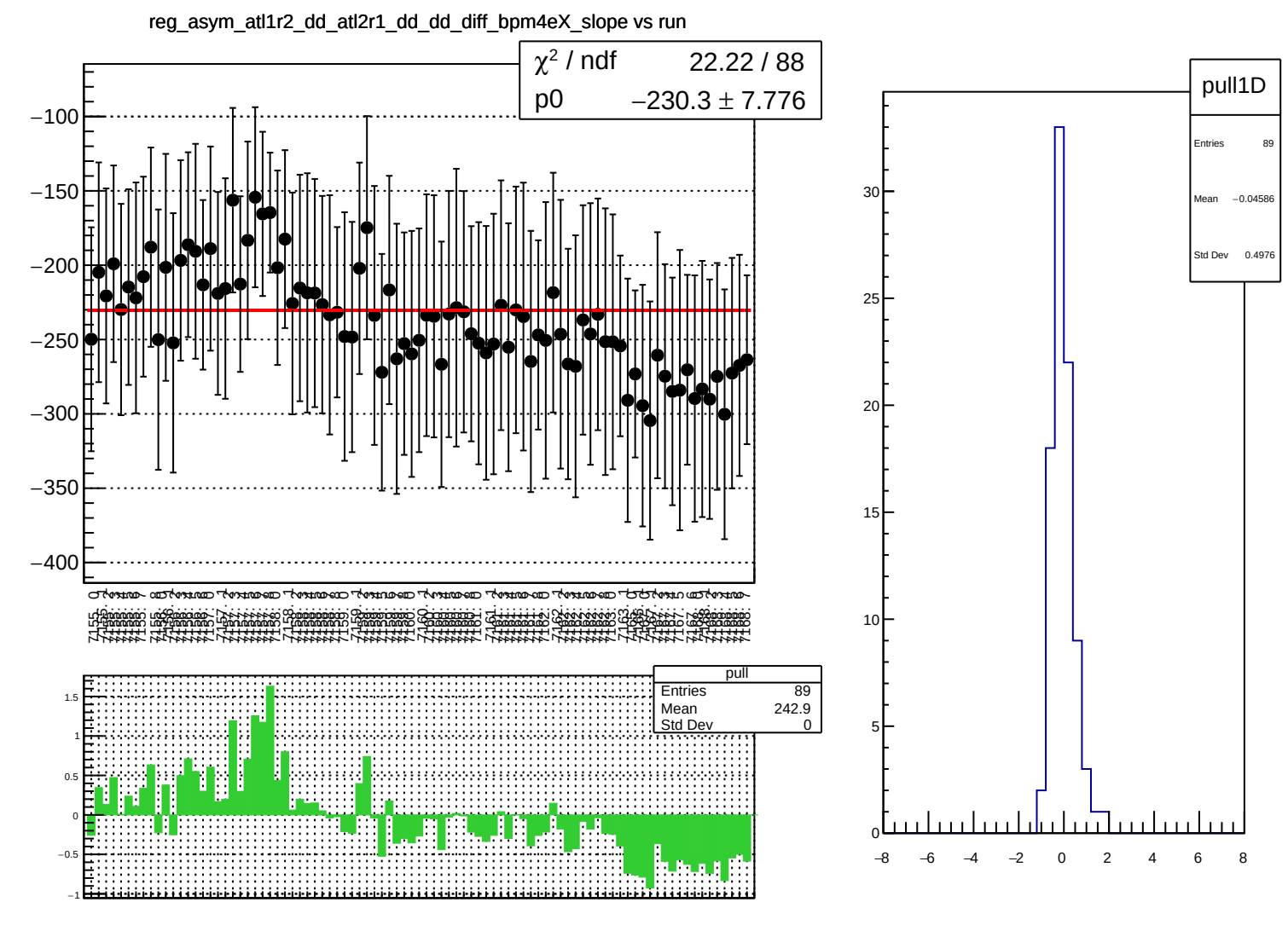

pull1D
Entries 89
Mean 0.01306
Std Dev 0.3628
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

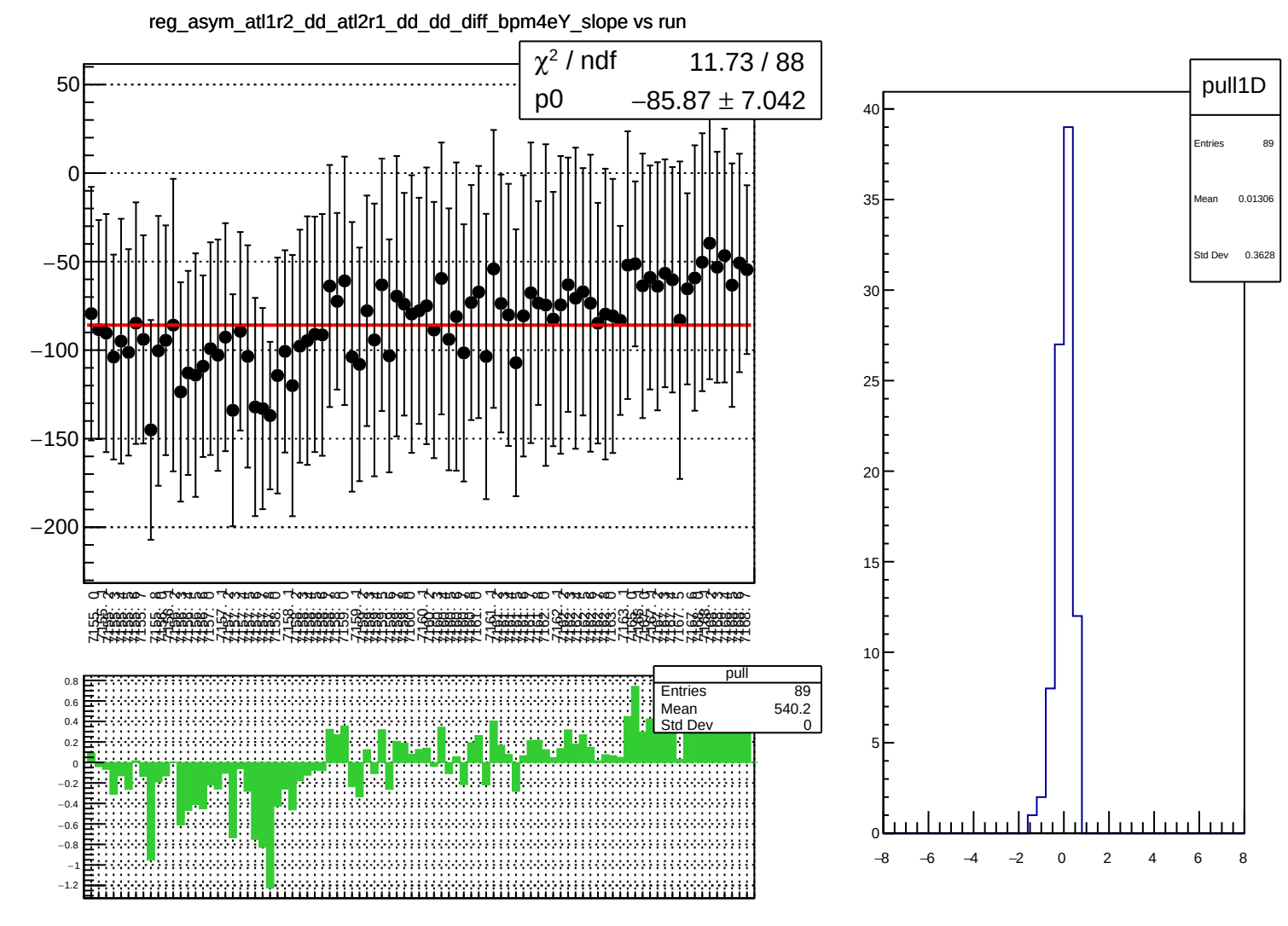

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5.013 / 88
p0 121.8 ± 0.2672
pull
Entries 89
Mean 203.6
Std Dev 0
pull1D
Entries 89
Mean −0.003688
Std Dev 0.2373

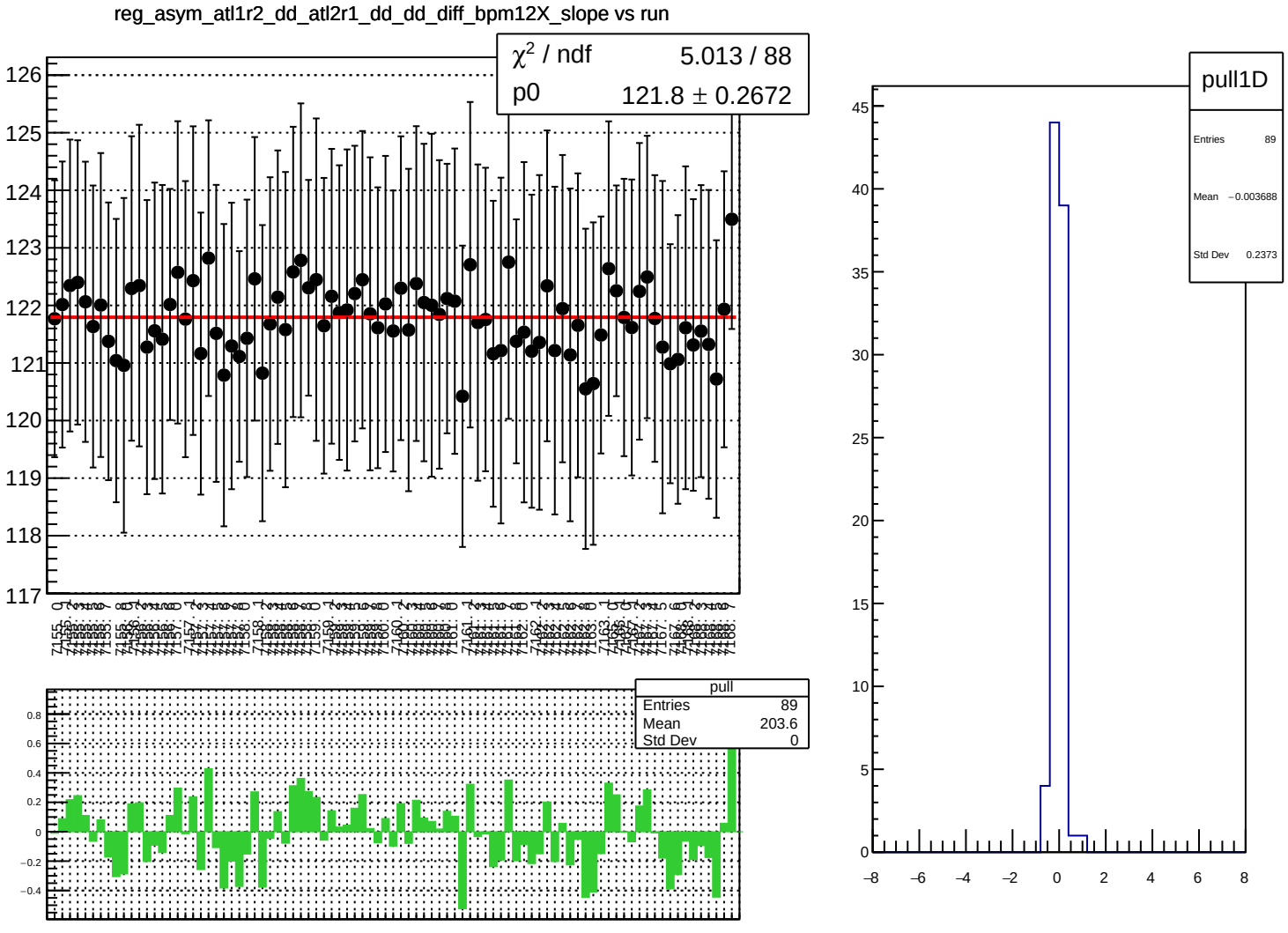

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 23.16 / 88
p0 211.9 ± 7.675
pull
Entries 89
Mean 242
Std Dev 0
pull1D
Entries 89
Mean 0.04777
Std Dev 0.5079

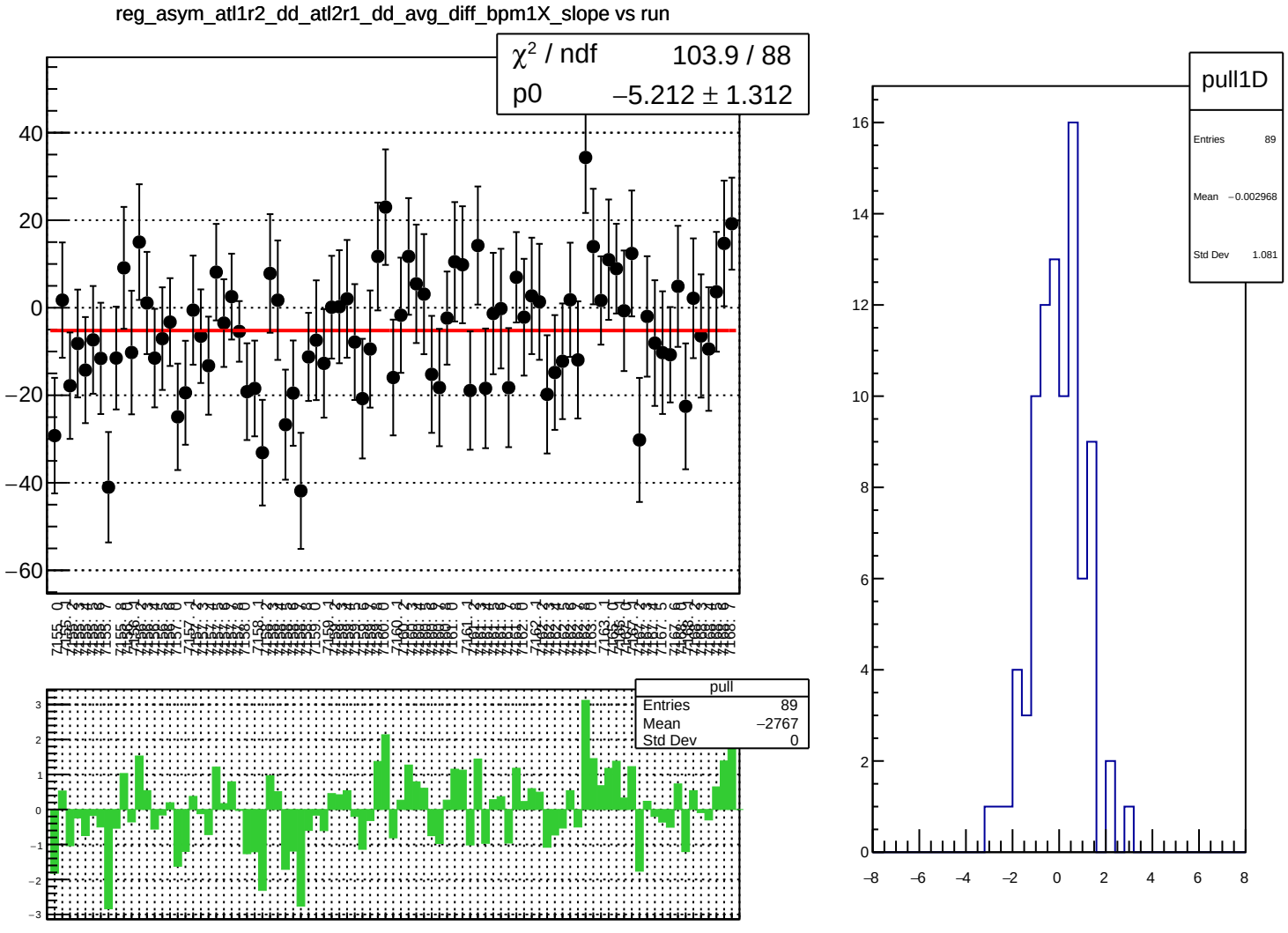

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.814 / 88
p0 10.18 ± 6.063
pull
Entries 89
Mean 1122
Std Dev 0

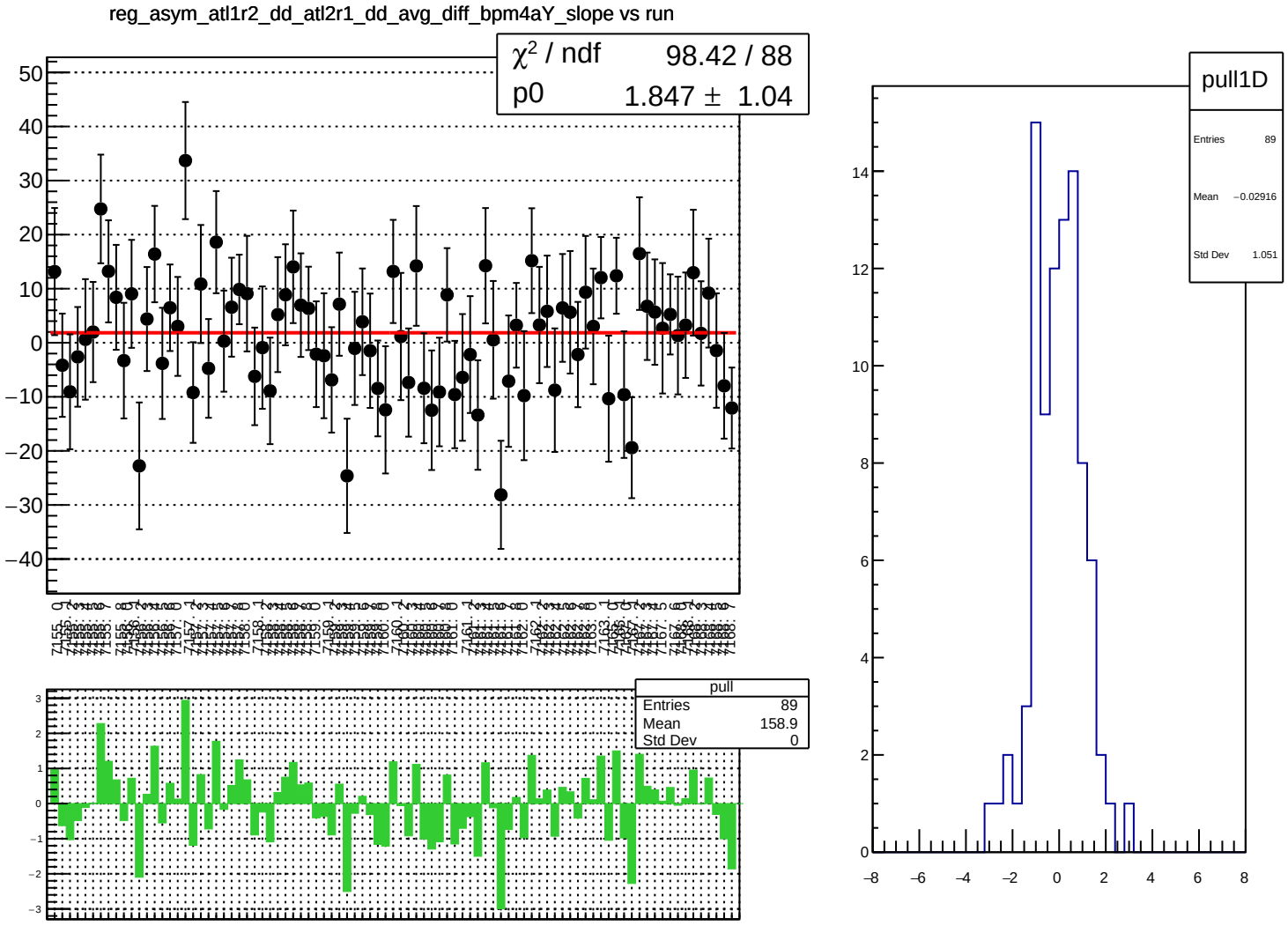

pull1D
Entries 89
Mean −0.005059
Std Dev 0.3146

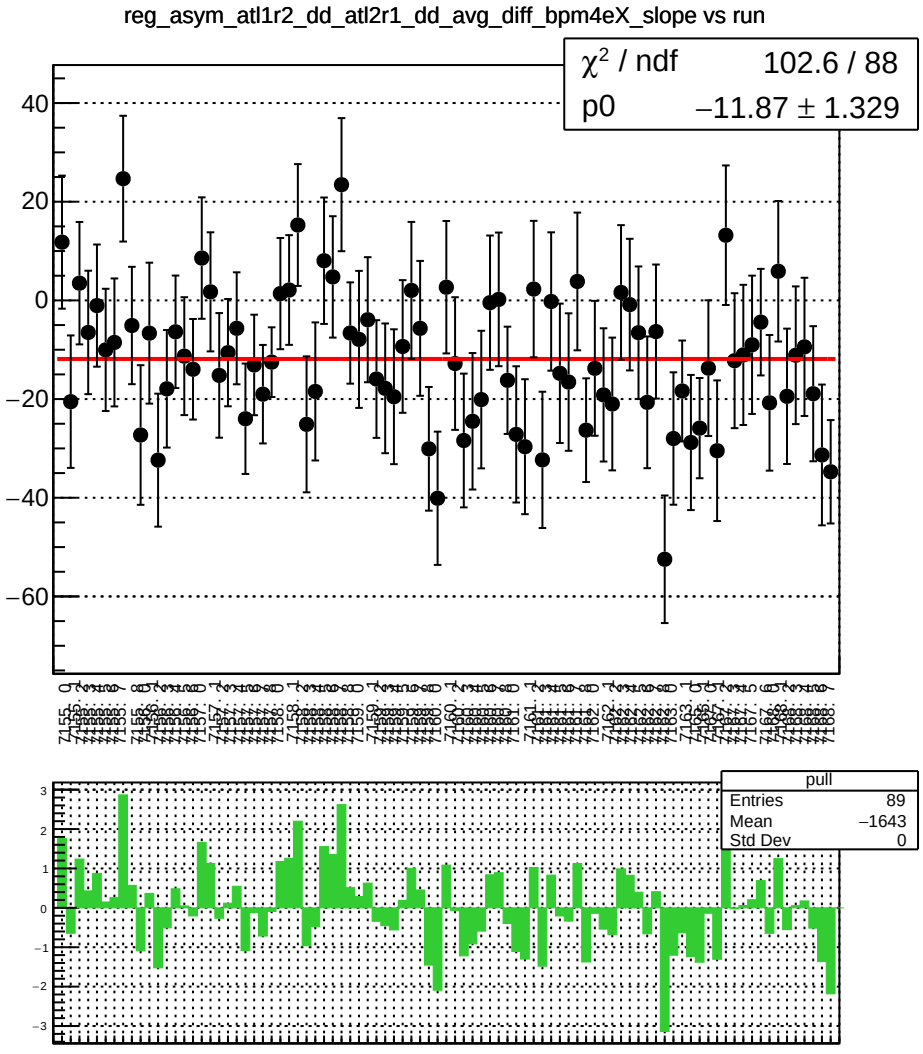

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.22 / 88
p0 −230.3 ± 7.776
pull
Entries 89
Mean 242.9
Std Dev 0
pull1D
Entries 89
Mean −0.04586
Std Dev 0.4976

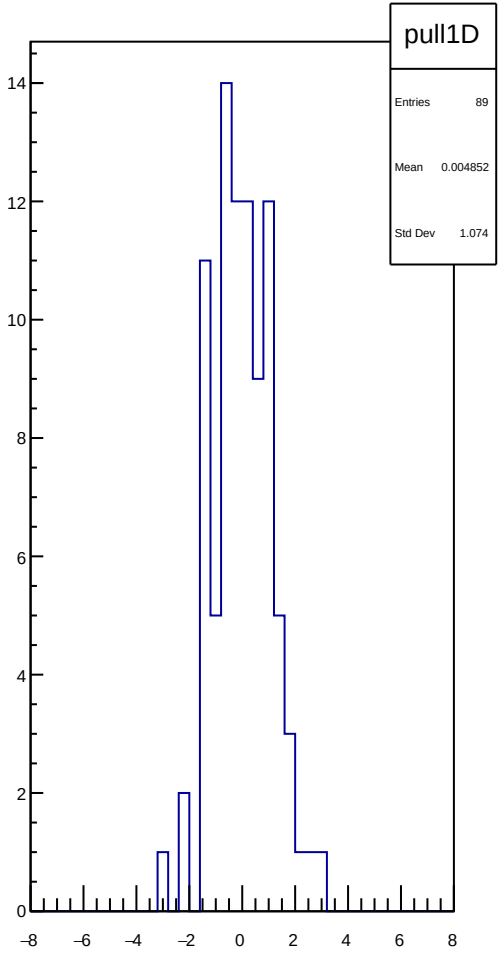

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.73 / 88
p0 −85.87 ± 7.042
pull
Entries 89
Mean 540.2
Std Dev 0
pull1D
Entries 89
Mean 0.01306
Std Dev 0.3628

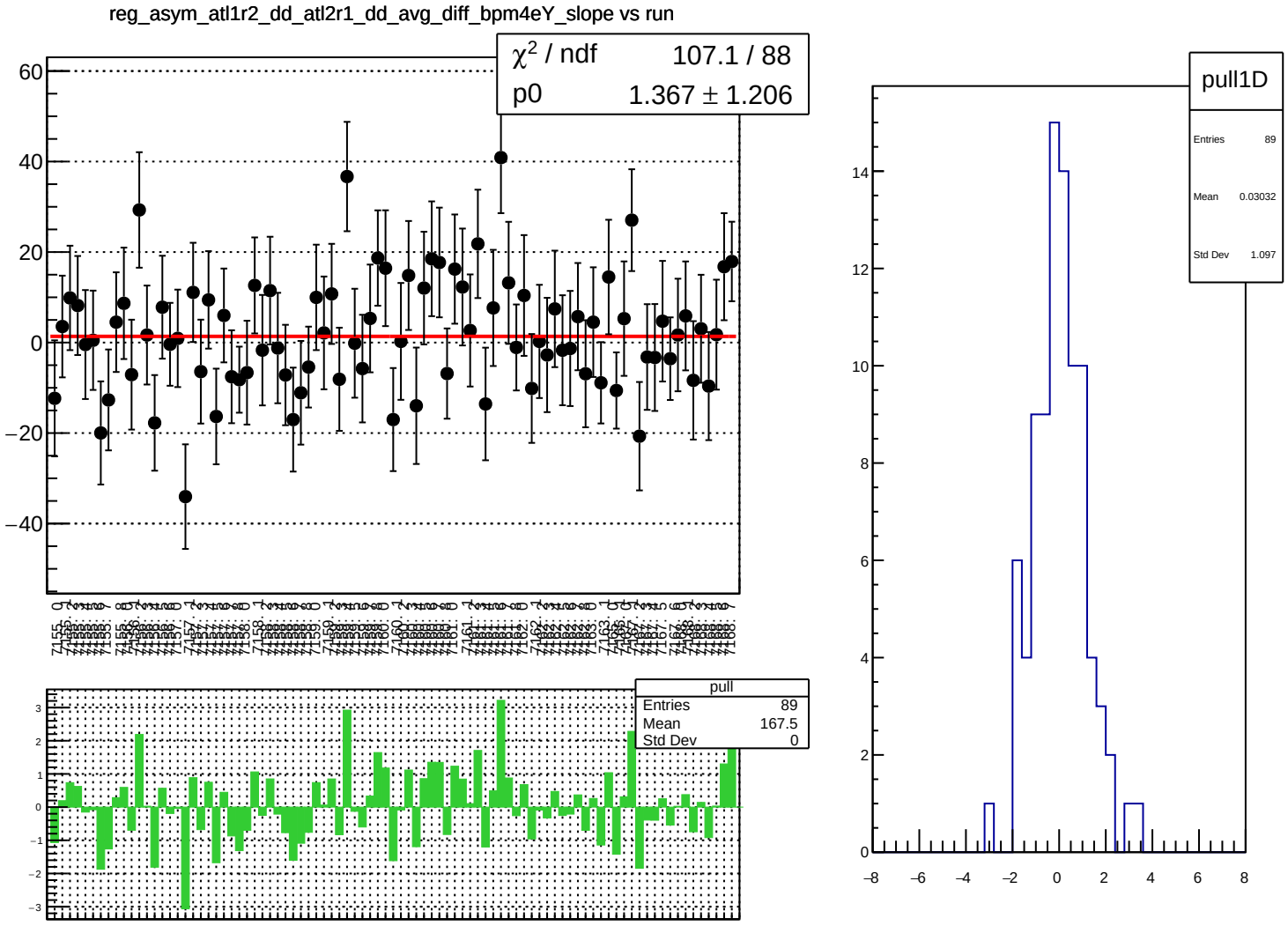

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5.013 / 88
p0 121.8 ± 0.2672
pull
Entries 89
Mean 203.6
Std Dev 0
pull1D
Entries 89
Mean −0.003688
Std Dev 0.2373

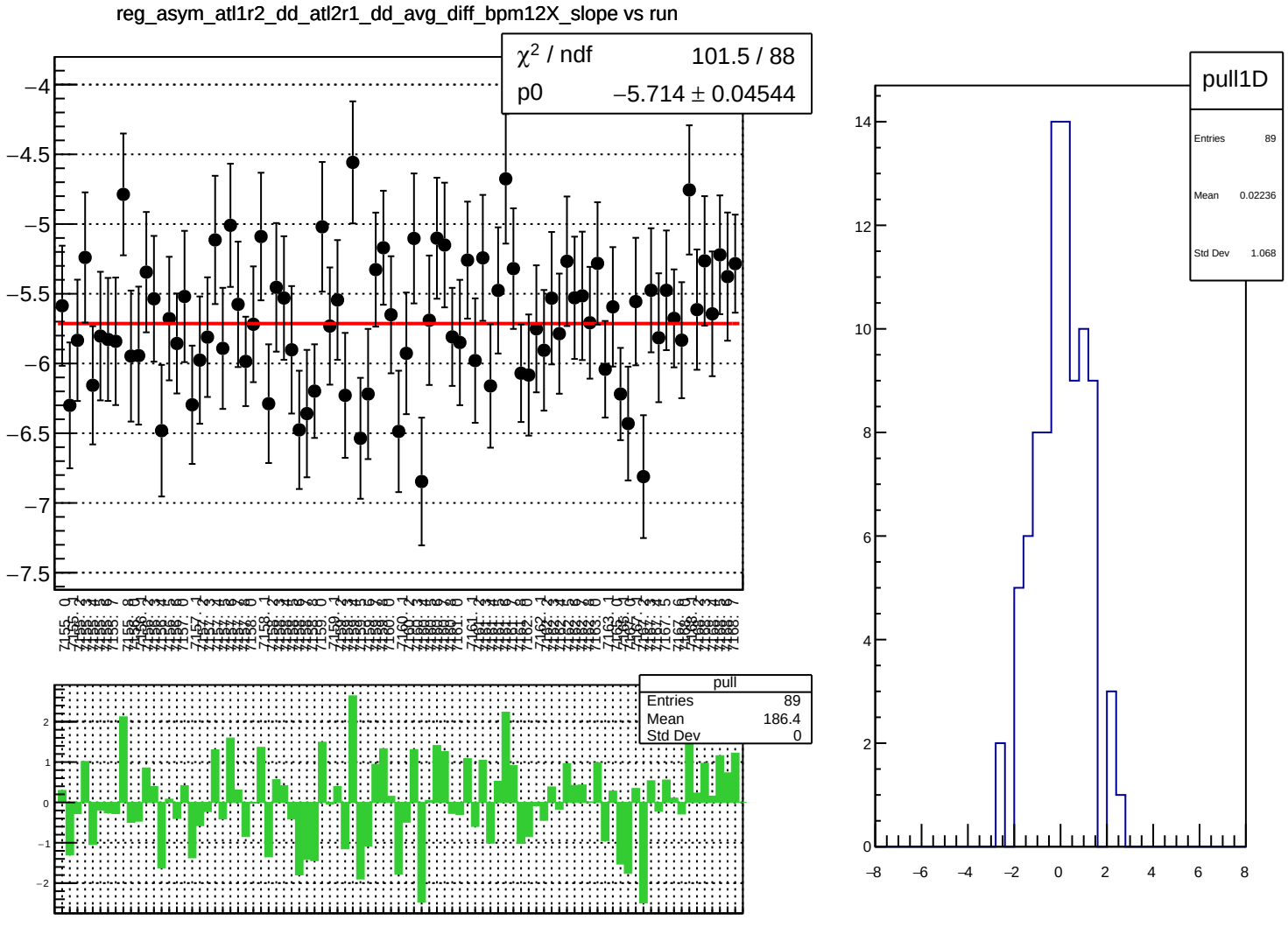

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 103.9 / 88
p0 −5.212 ± 1.312
pull
Entries 89
Mean −2767
Std Dev 0
pull1D
Entries 89
Mean −0.002968
Std Dev 1.081

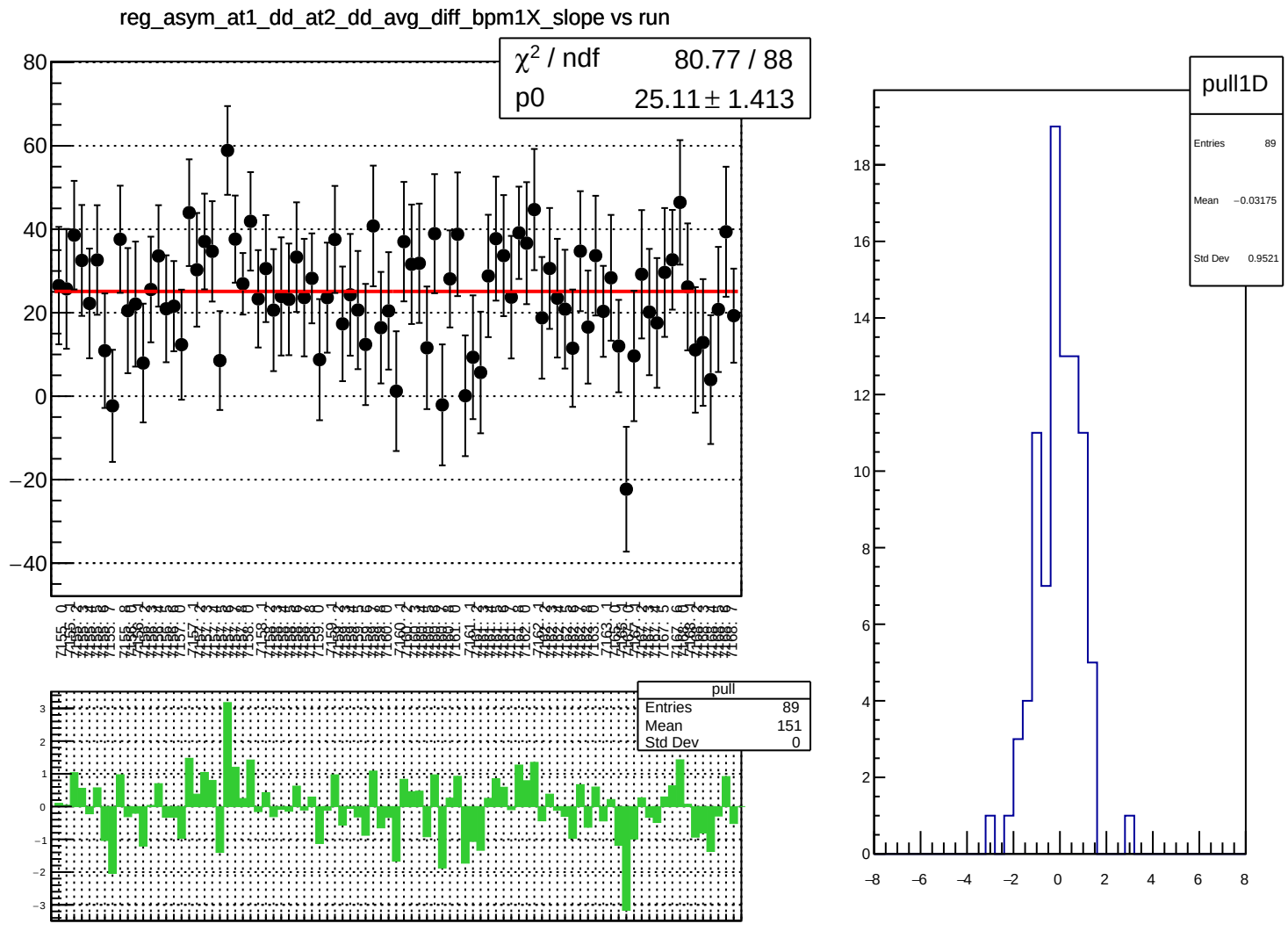

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 98.42 / 88
p0 1.847 ± 1.04
pull
Entries 89
Mean 158.9
Std Dev 0
pull1D
Entries 89
Mean −0.02916
Std Dev 1.051

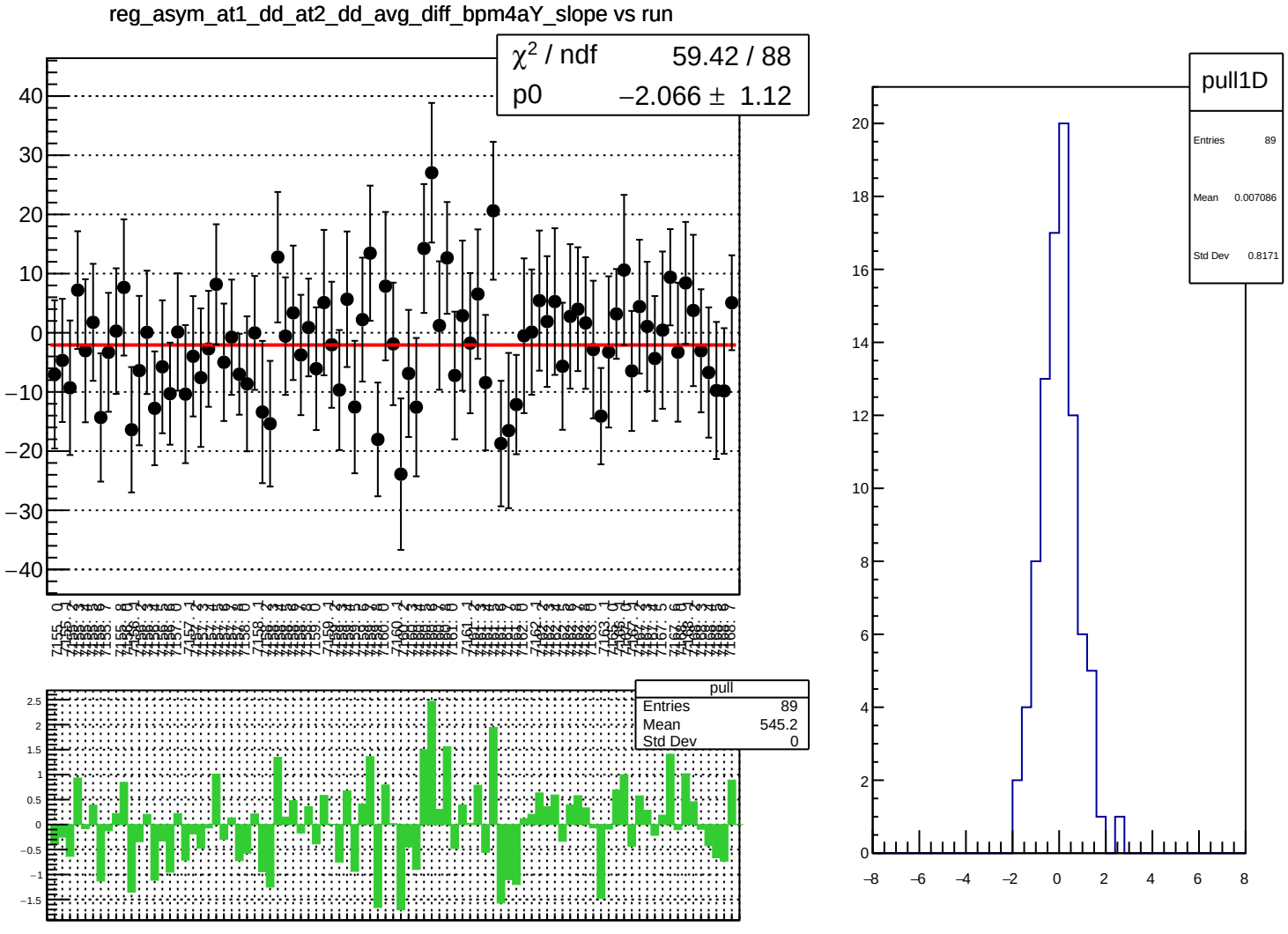

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.6 / 88
p0 −11.87 ± 1.329
pull
Entries 89
Mean −1643
Std Dev 0

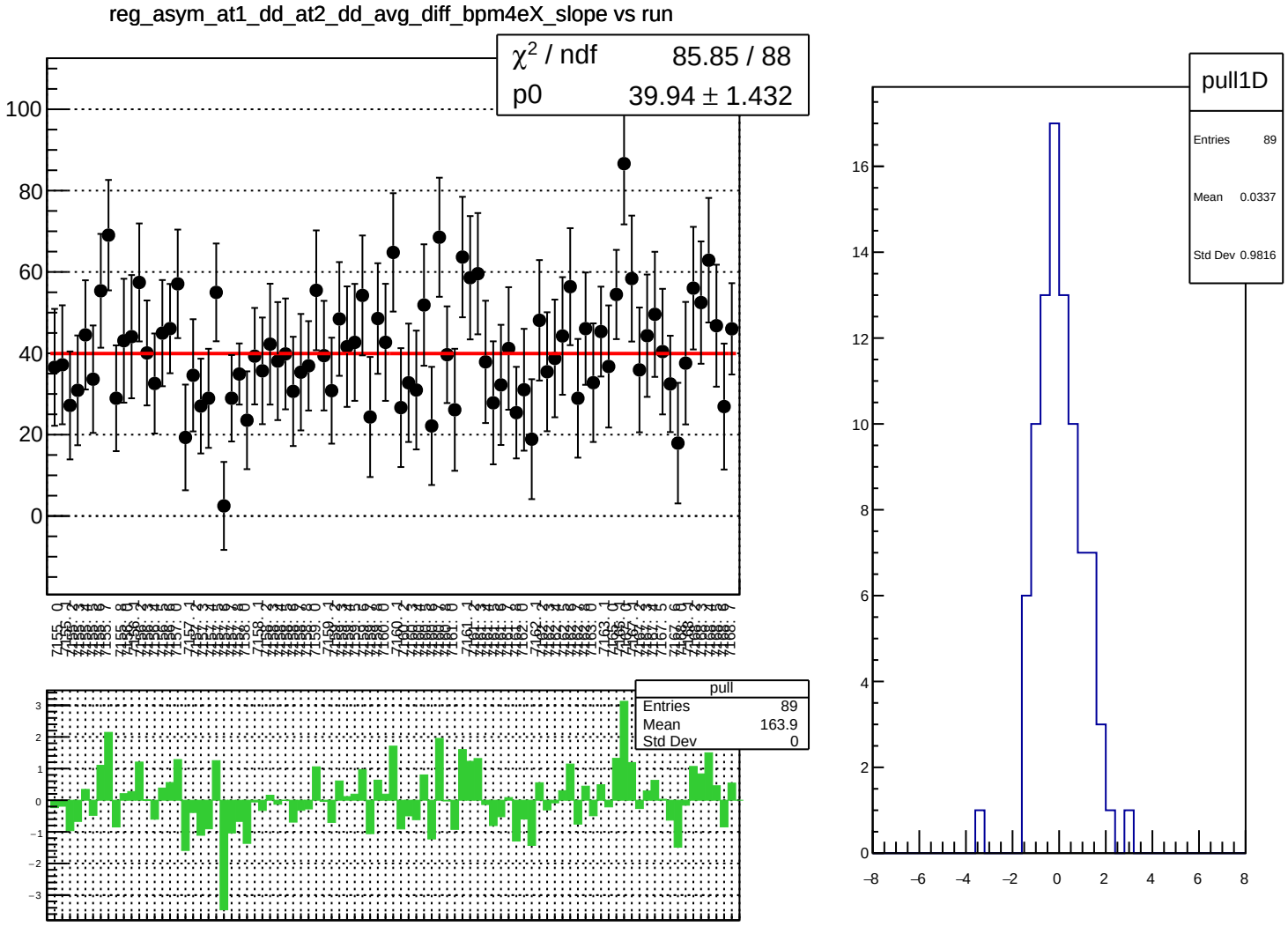

pull1D
Entries 89
Mean 0.004852
Std Dev 1.074

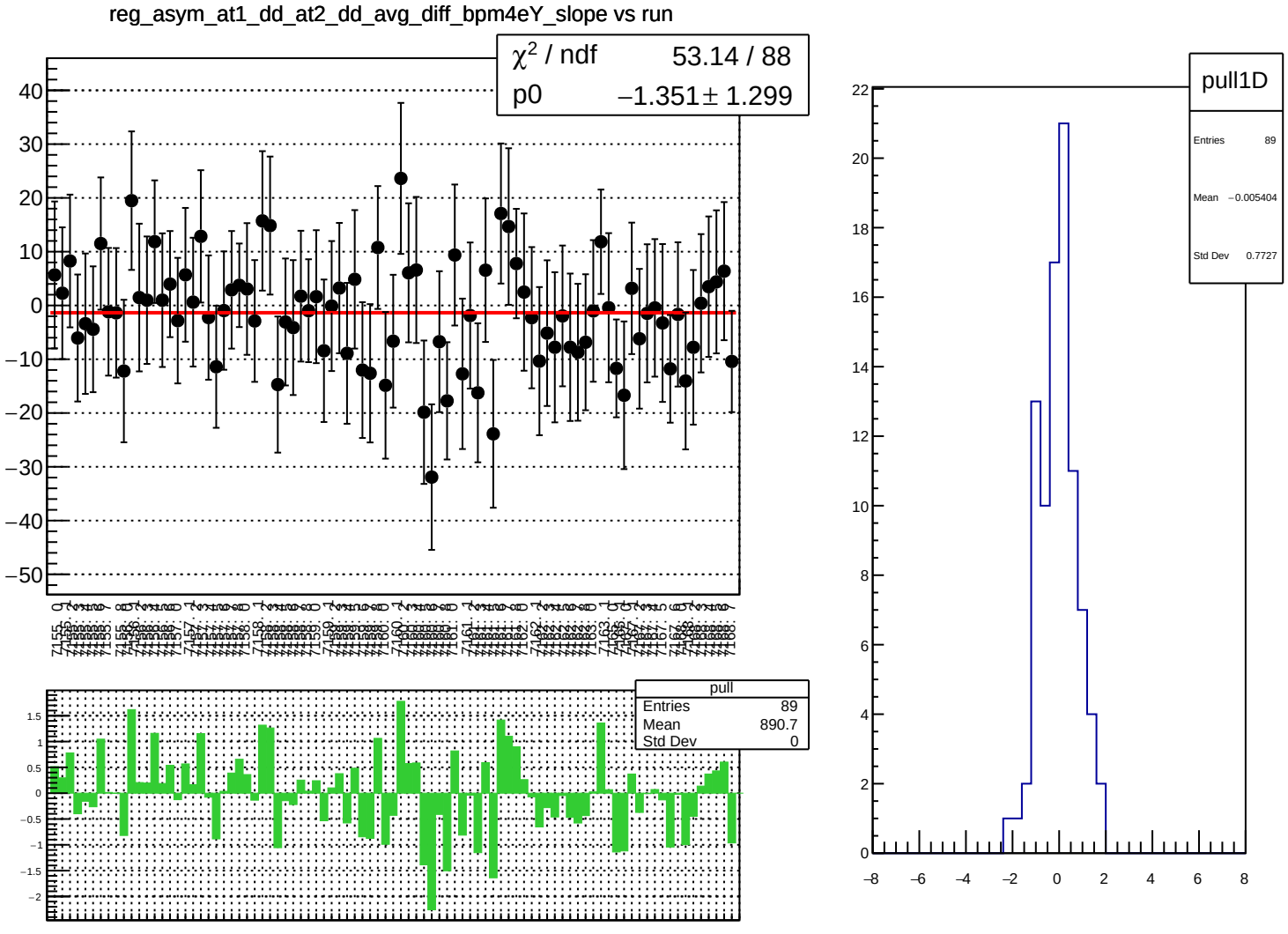

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.1 / 88
p0 1.367 ± 1.206
pull
Entries 89
Mean 167.5
Std Dev 0
pull1D
Entries 89
Mean 0.03032
Std Dev 1.097

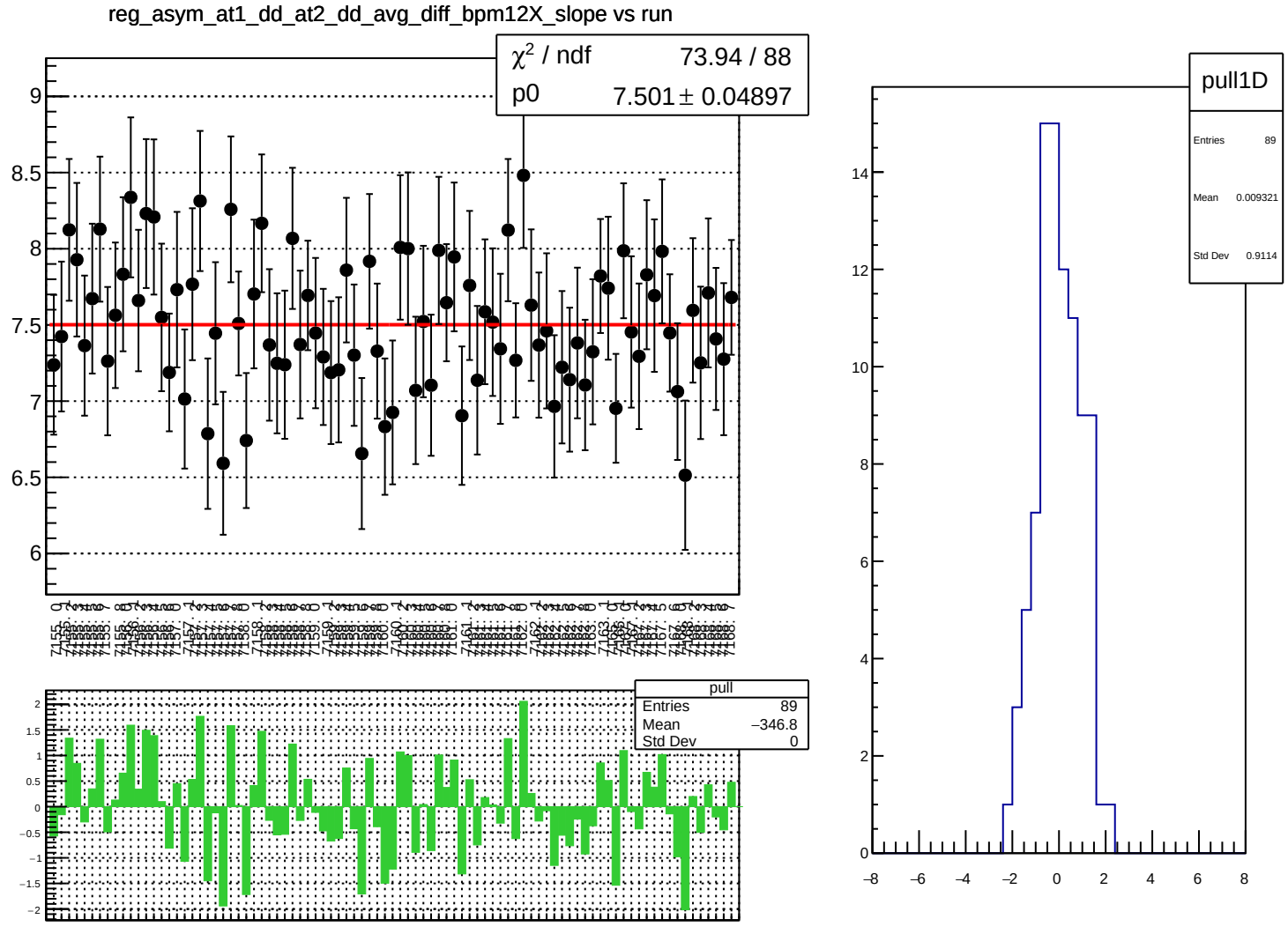

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 101.5 / 88
p0 −5.714 ± 0.04544
pull
Entries 89
Mean 186.4
Std Dev 0
pull1D
Entries 89
Mean 0.02236
Std Dev 1.068

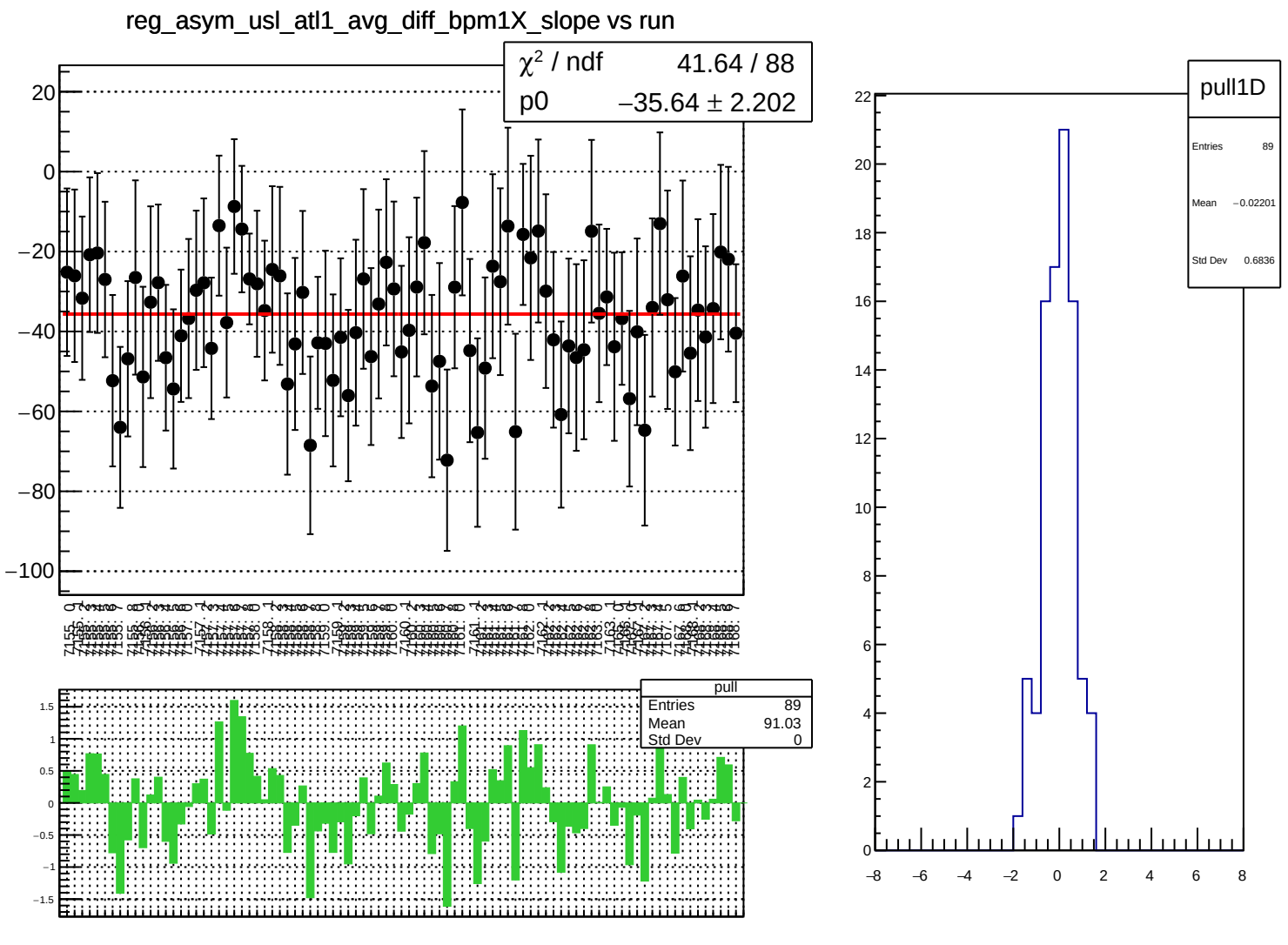

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 80.77 / 88
p0 25.11 ± 1.413
pull
Entries 89
Mean 151
Std Dev 0
pull1D
Entries 89
Mean −0.03175
Std Dev 0.9521

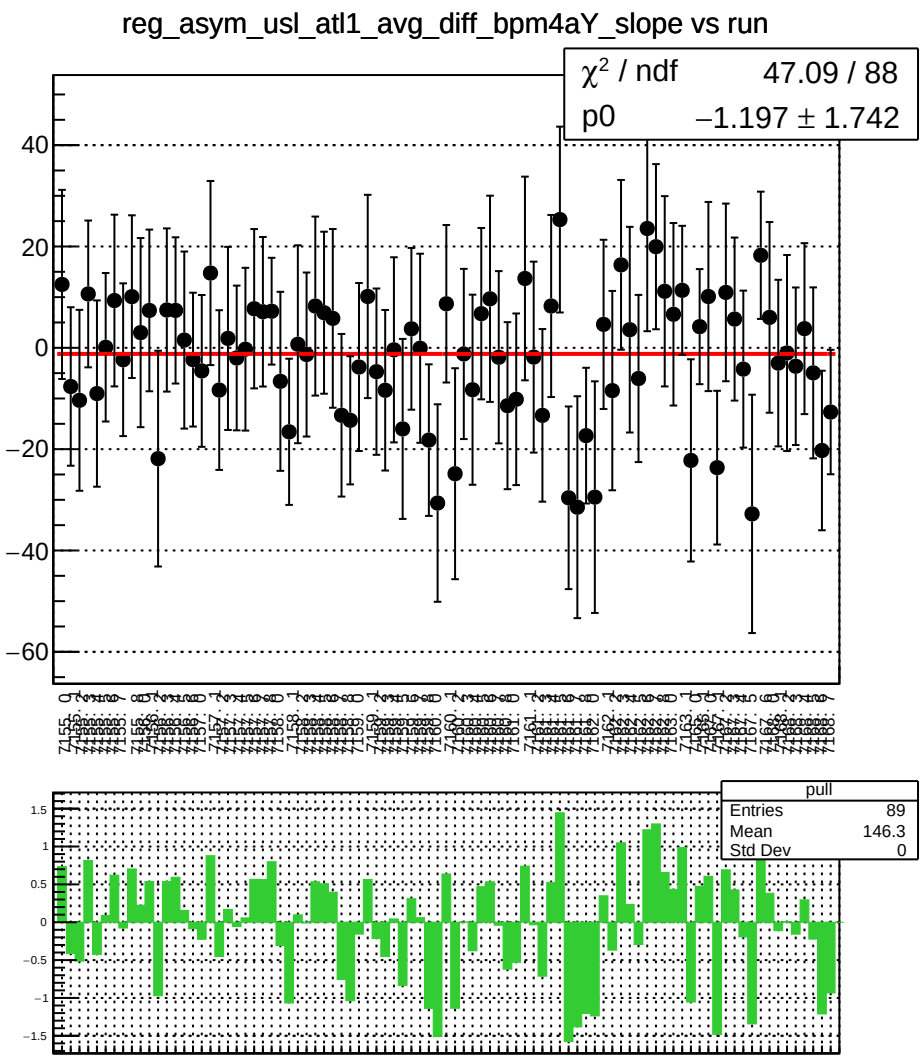

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.42 / 88
p0 −2.066 ± 1.12
pull
Entries 89
Mean 545.2
Std Dev 0
pull1D
Entries 89
Mean 0.007086
Std Dev 0.8171

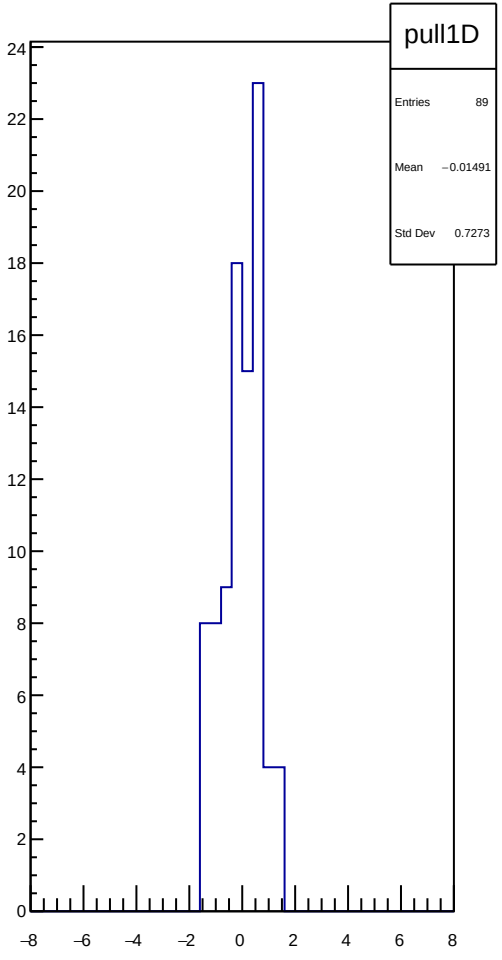

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.85 / 88
p0 39.94 ± 1.432
pull
Entries 89
Mean 163.9
Std Dev 0
pull1D
Entries 89
Mean 0.0337
Std Dev 0.9816

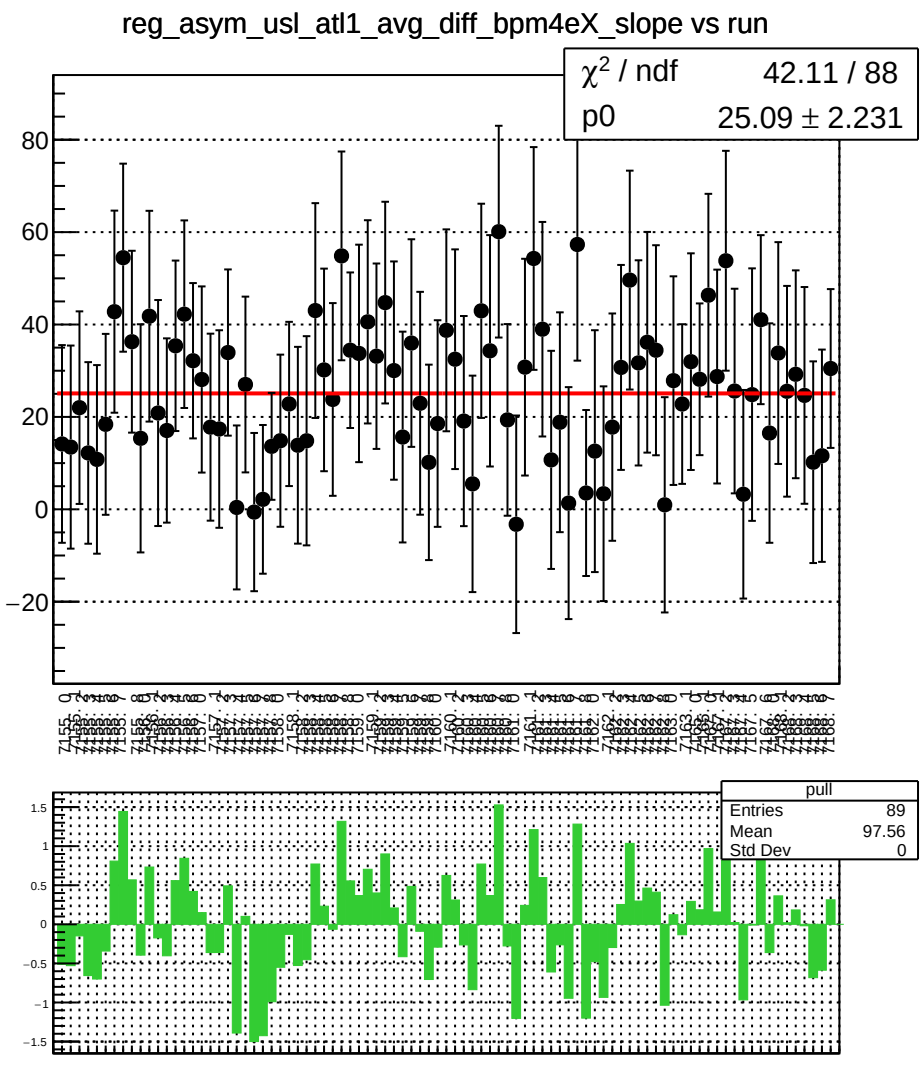

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 53.14 / 88
p0 −1.351 ± 1.299
pull
Entries 89
Mean 890.7
Std Dev 0
pull1D
Entries 89
Mean −0.005404
Std Dev 0.7727

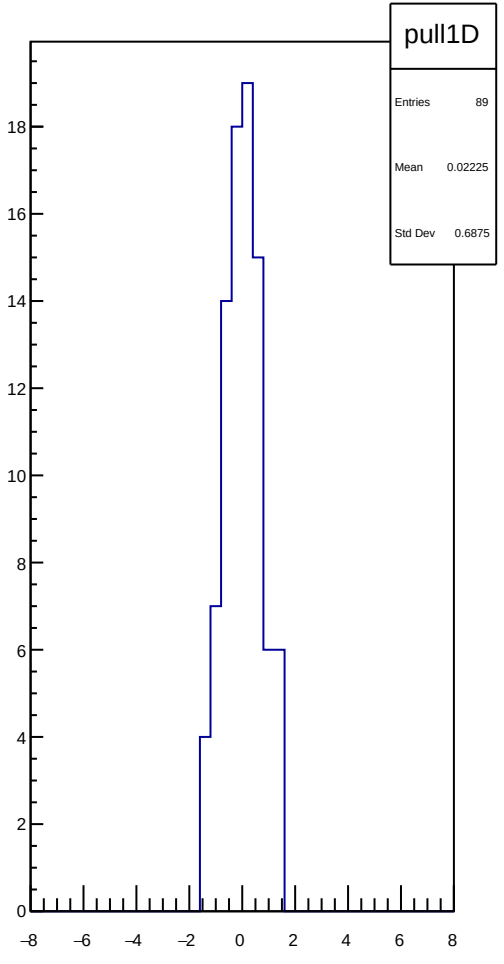

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 73.94 / 88
p0 7.501 ± 0.04897
pull
Entries 89
Mean −346.8
Std Dev 0
pull1D
Entries 89
Mean 0.009321
Std Dev 0.9114

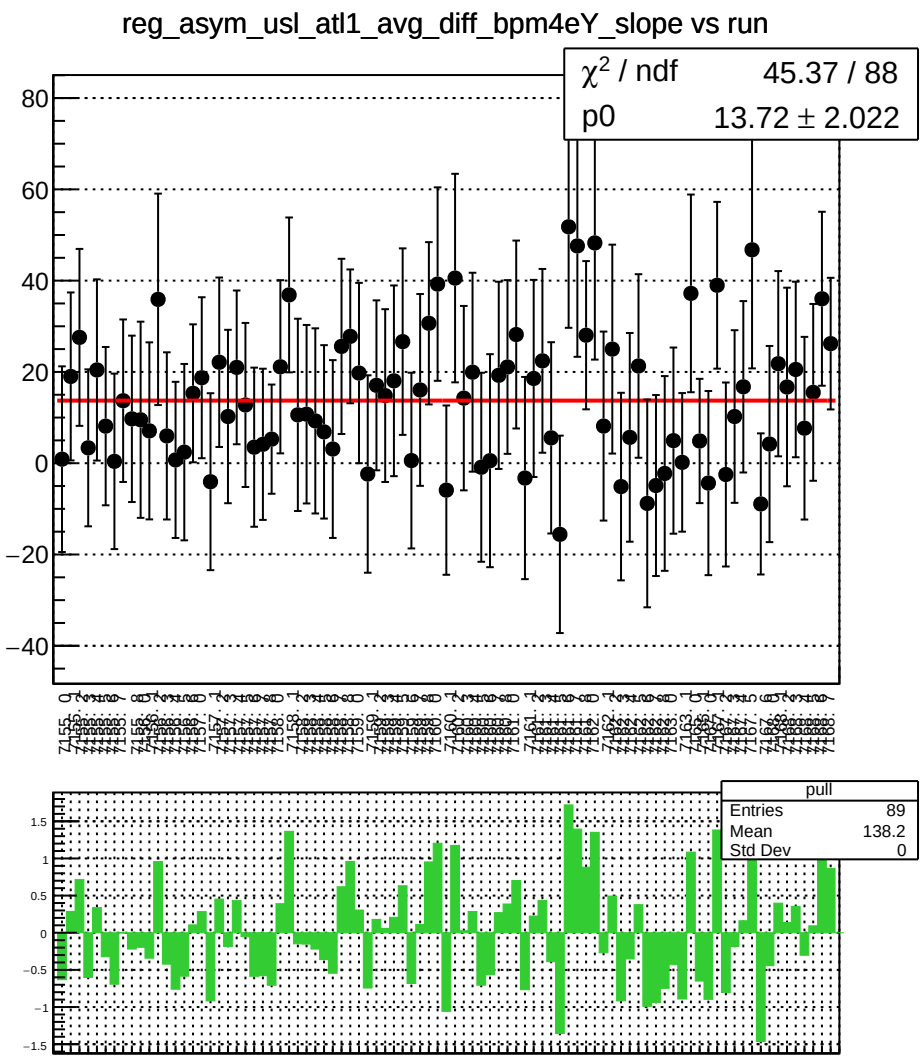

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 41.64 / 88
p0 −35.64 ± 2.202
pull
Entries 89
Mean 91.03
Std Dev 0
pull1D
Entries 89
Mean −0.02201
Std Dev 0.6836

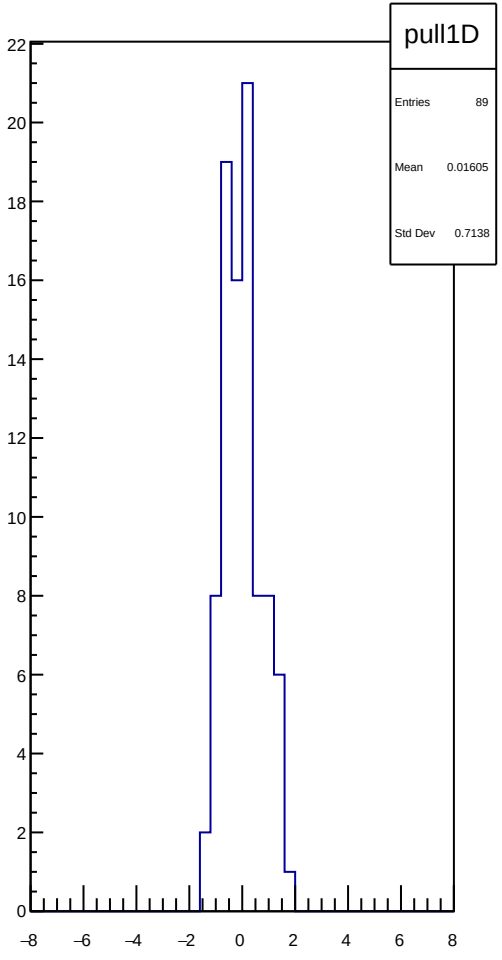

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 47.09 / 88
p0 −1.197 ± 1.742
pull
Entries 89
Mean 146.3
Std Dev 0

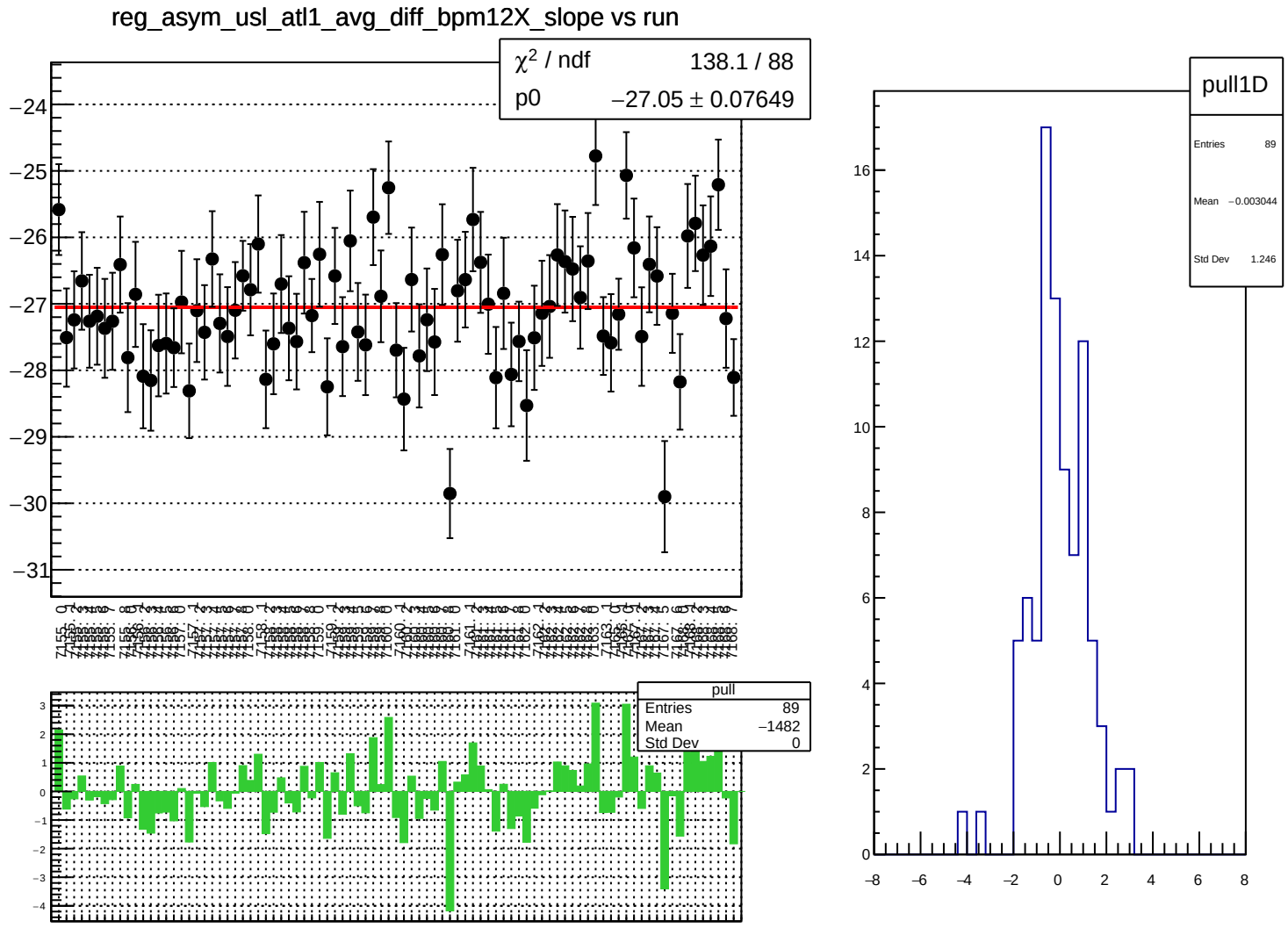

pull1D
Entries 89
Mean −0.01491
Std Dev 0.7273

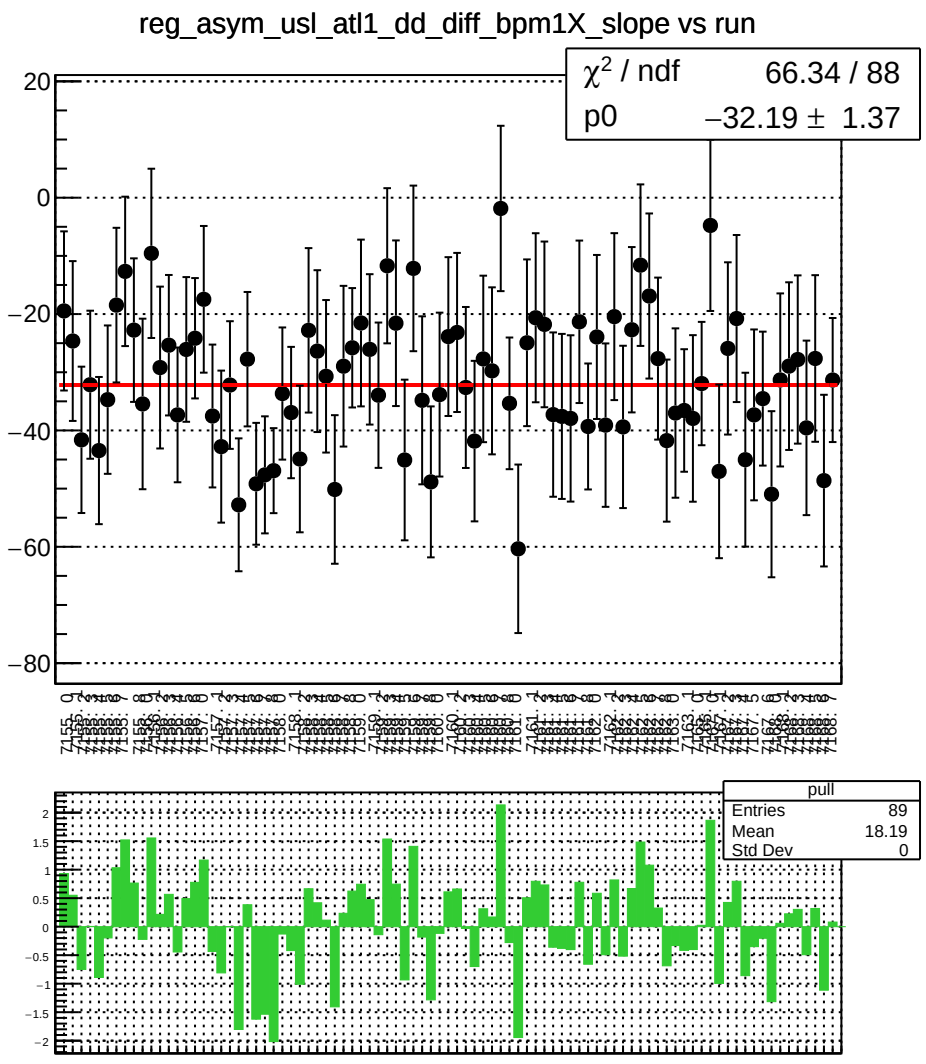

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.11 / 88
p0 25.09 ± 2.231
pull
Entries 89
Mean 97.56
Std Dev 0

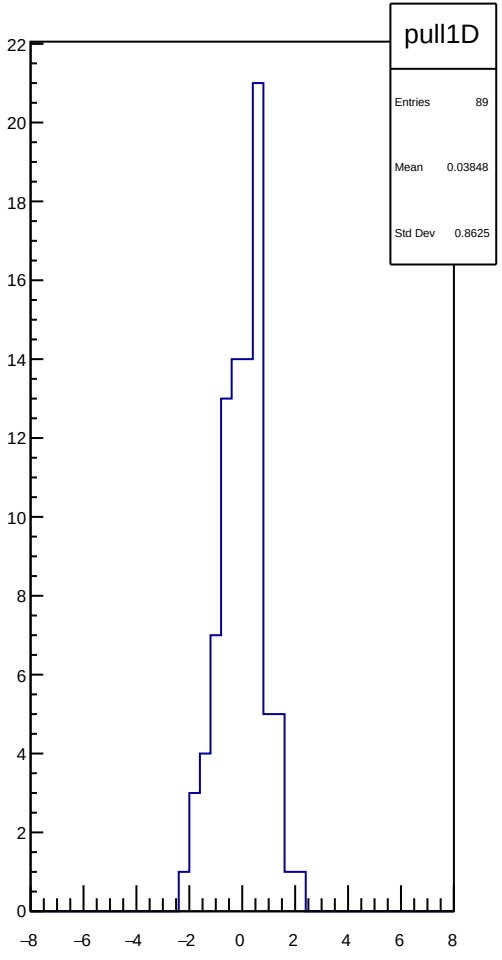

pull1D
Entries 89
Mean 0.02225
Std Dev 0.6875

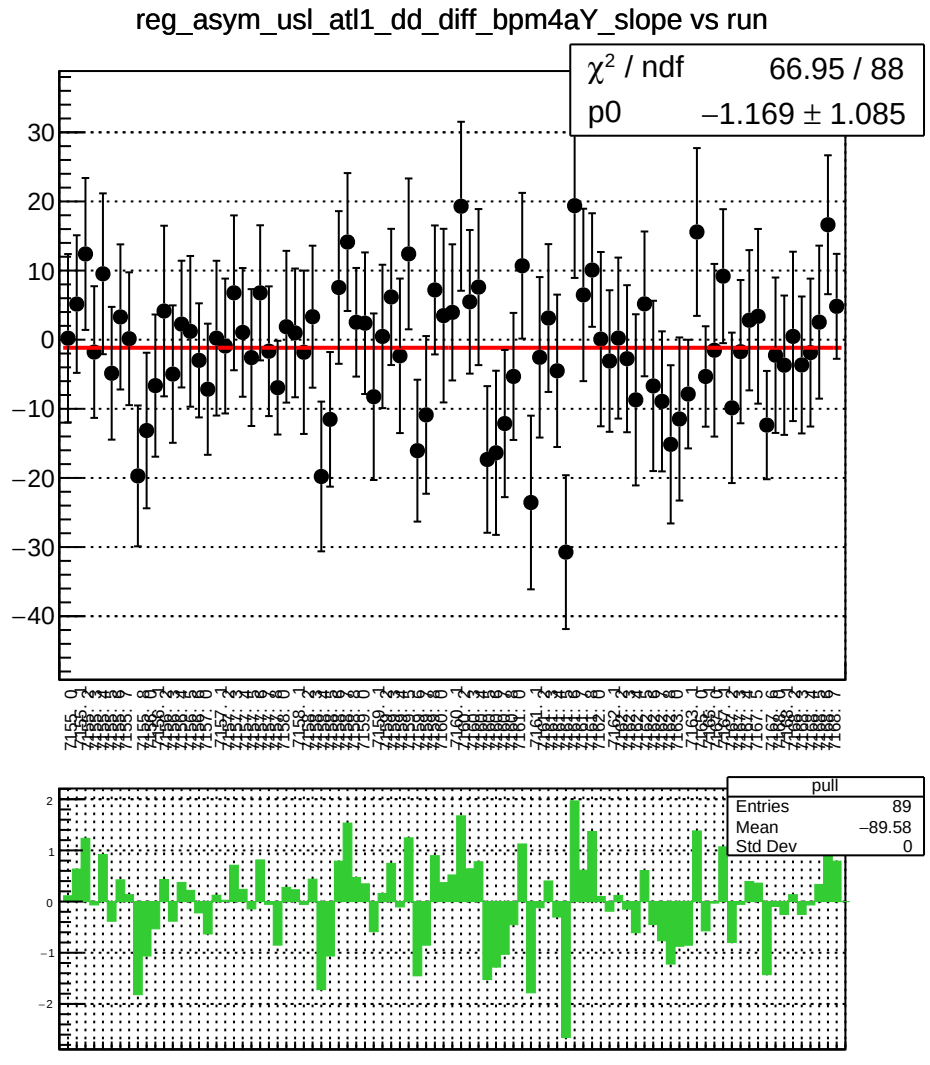

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 45.37 / 88
p0 13.72 ± 2.022
pull
Entries 89
Mean 138.2
Std Dev 0

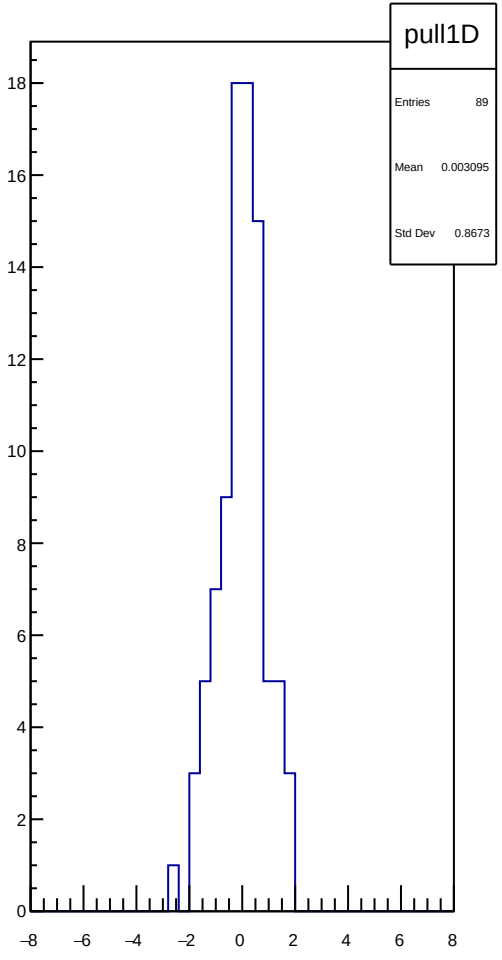

pull1D
Entries 89
Mean 0.01605
Std Dev 0.7138

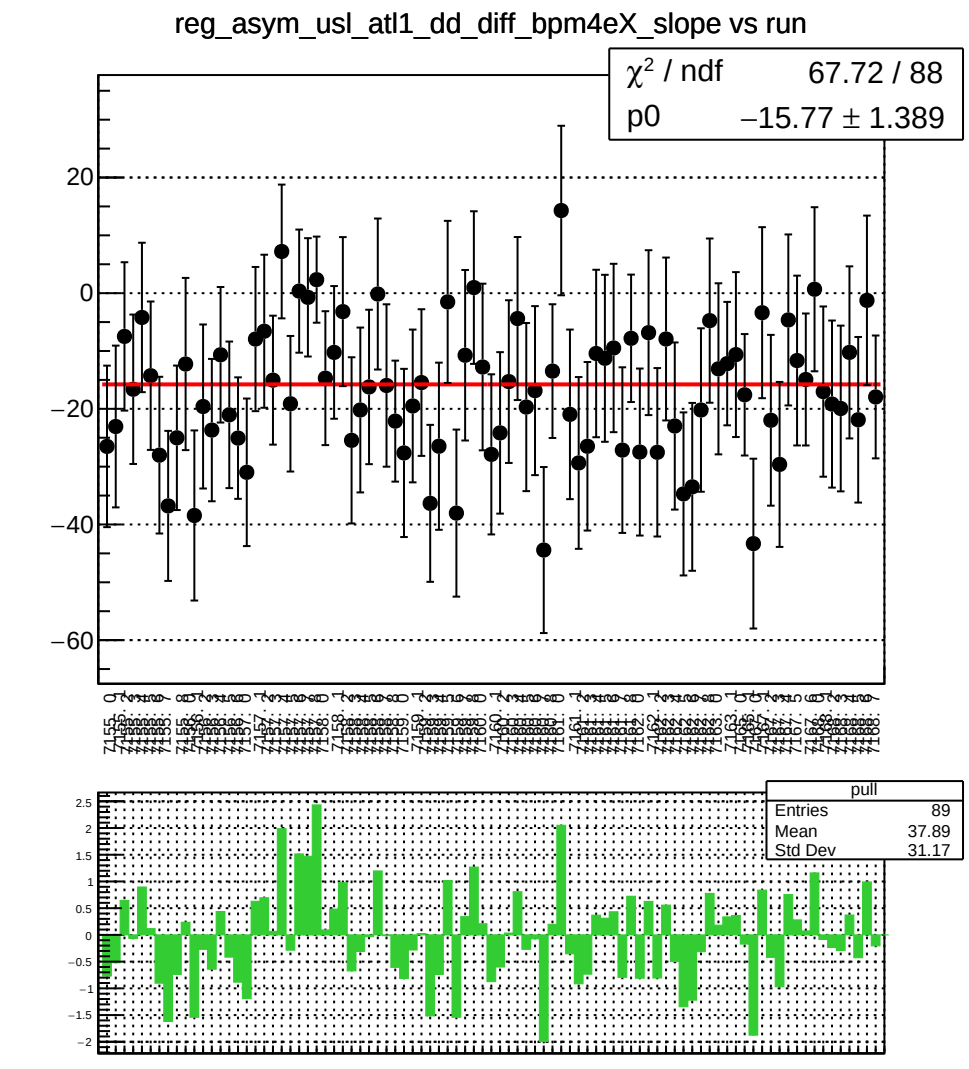

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 138.1 / 88
p0 −27.05 ± 0.07649
pull
Entries 89
Mean −1482
Std Dev 0
pull1D
Entries 89
Mean −0.003044
Std Dev 1.246

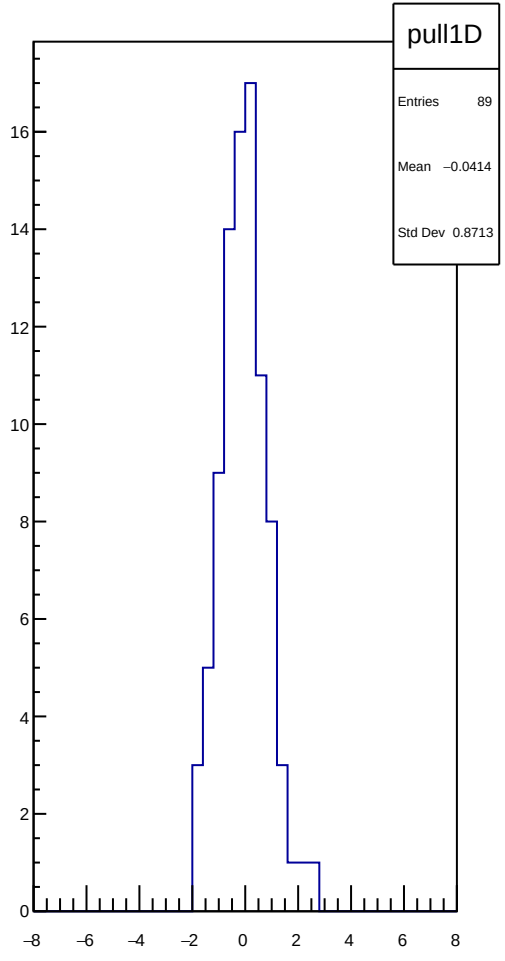

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 66.34 / 88
p0 −32.19 ± 1.37
pull
Entries 89
Mean 18.19
Std Dev 0

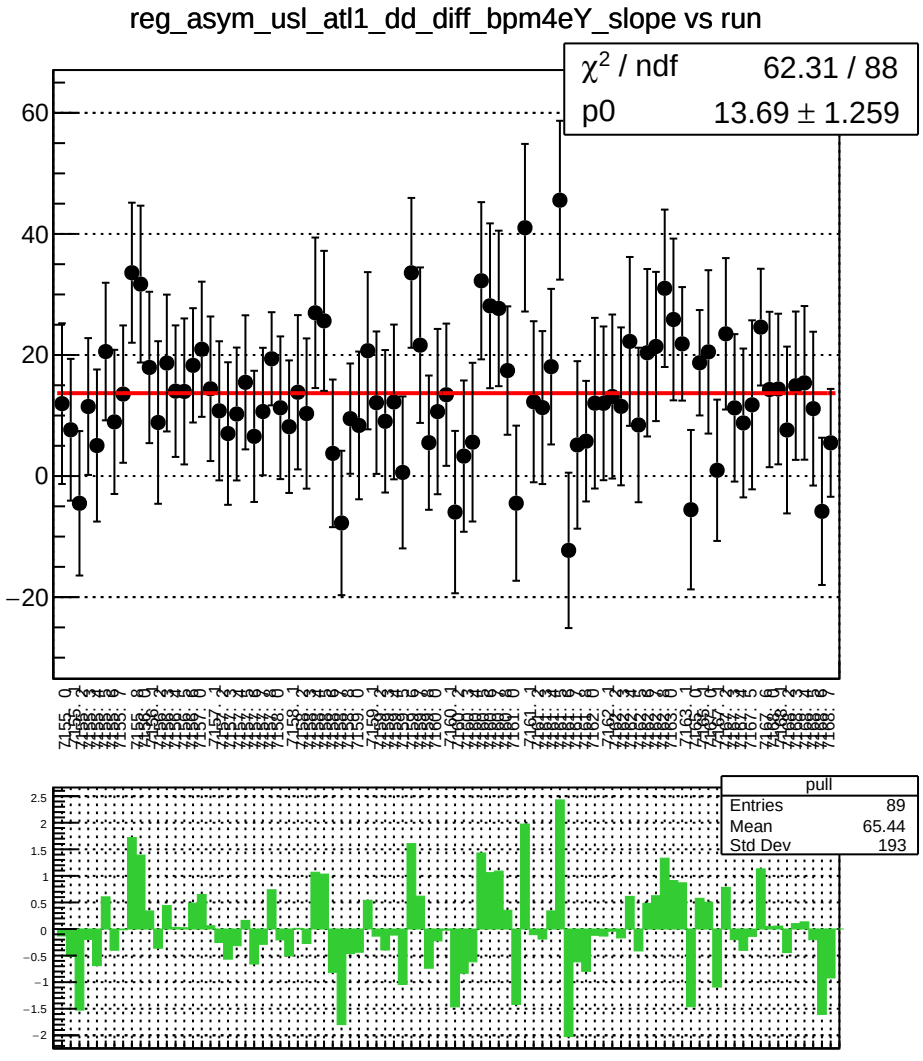

pull1D
Entries 89
Mean 0.03848
Std Dev 0.8625

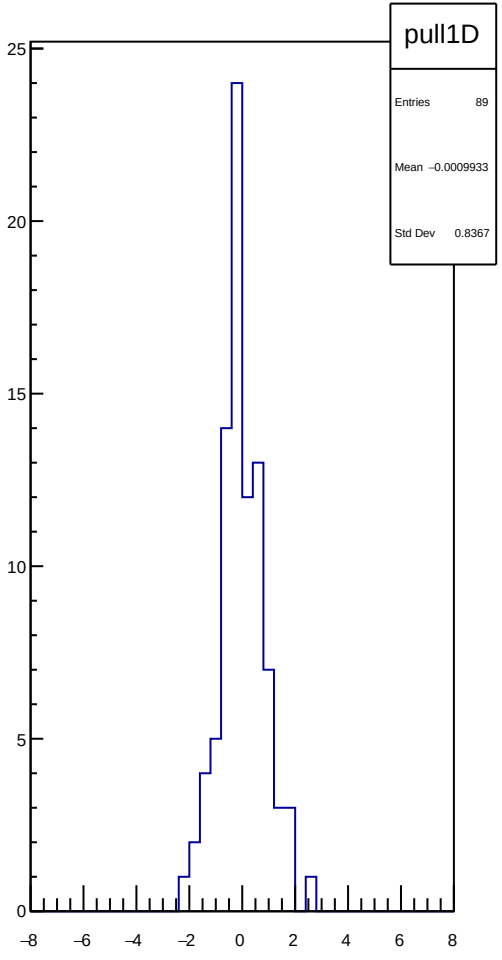

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.95 / 88
p0 −1.169 ± 1.085
pull
Entries 89
Mean −89.58
Std Dev 0

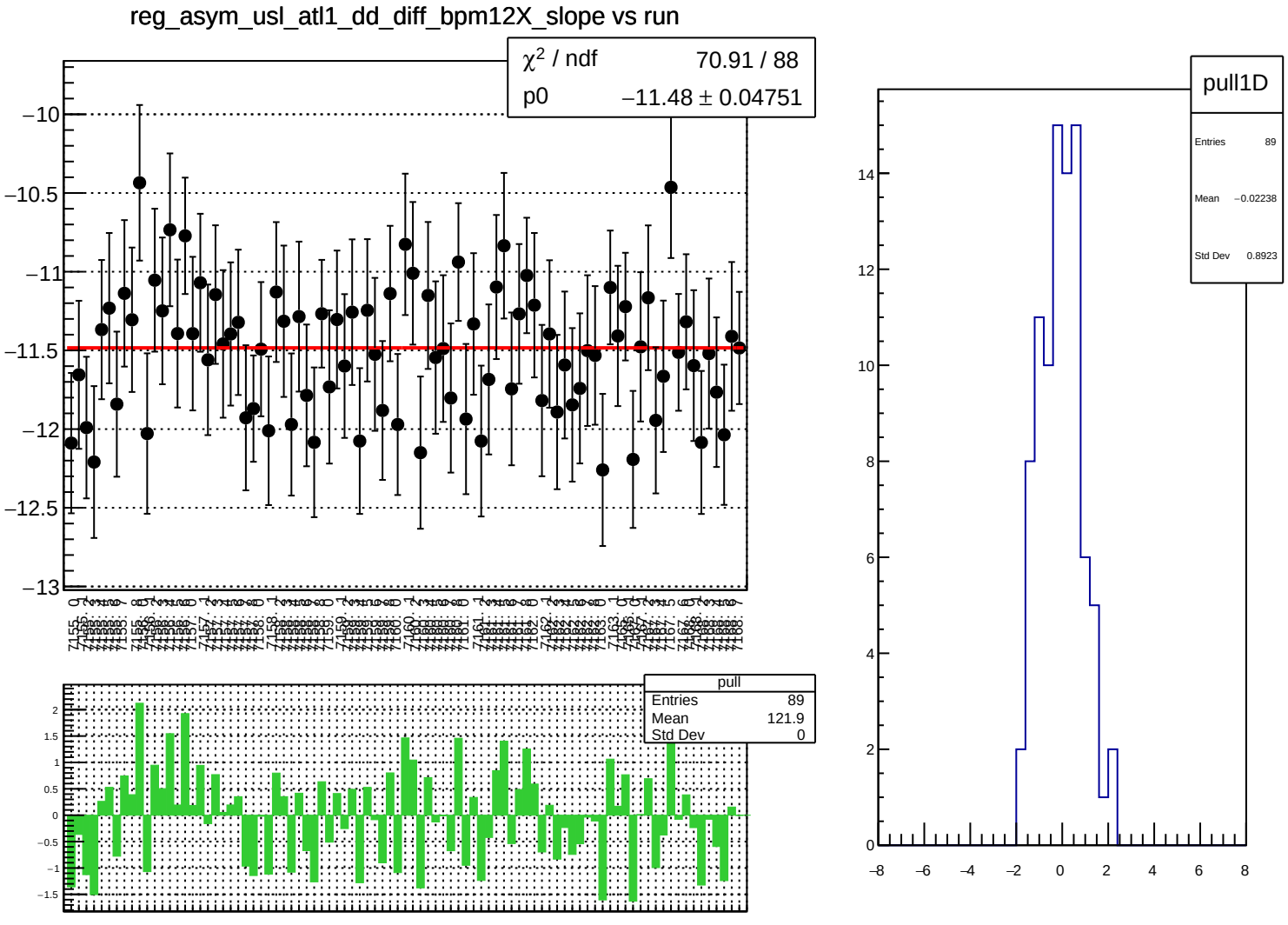

pull1D
Entries 89
Mean 0.003095
Std Dev 0.8673

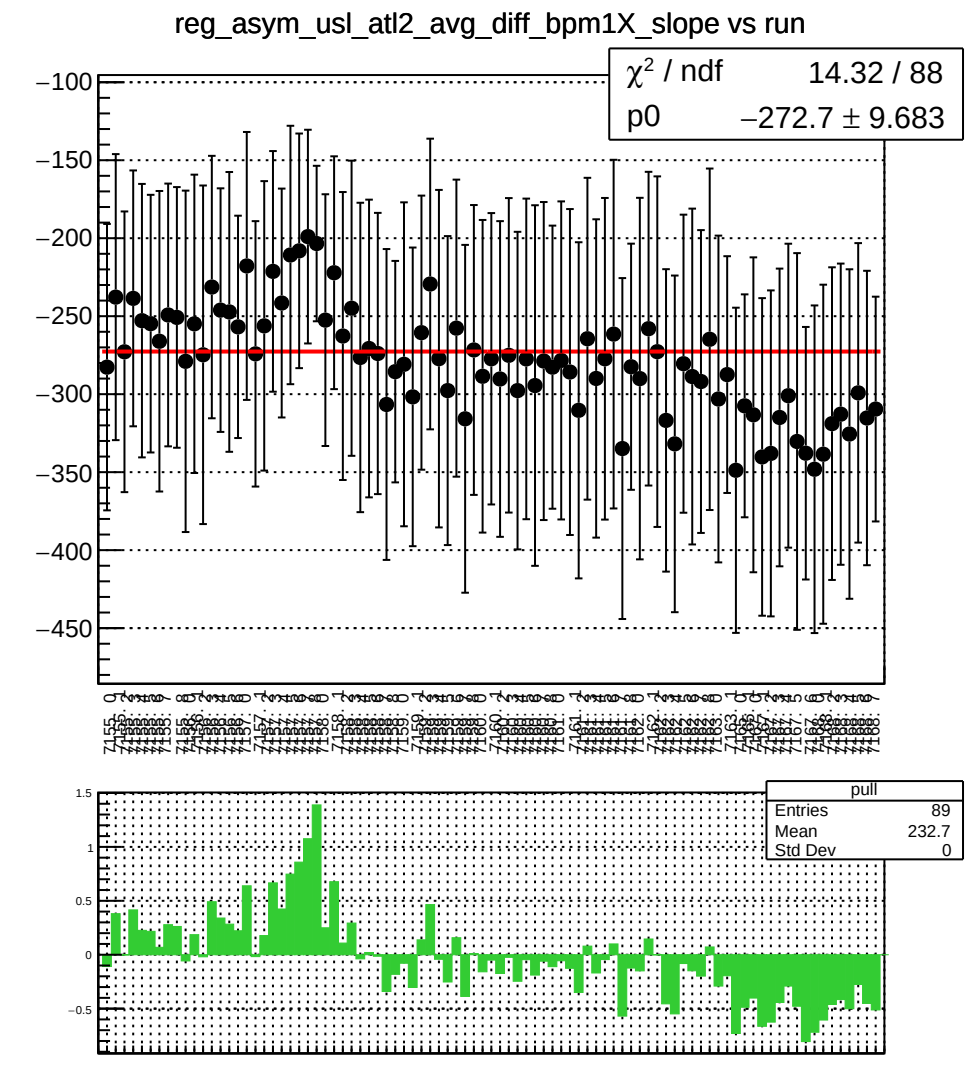

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.72 / 88
p0 −15.77 ± 1.389
pull
Entries 89
Mean 37.89
Std Dev 31.17

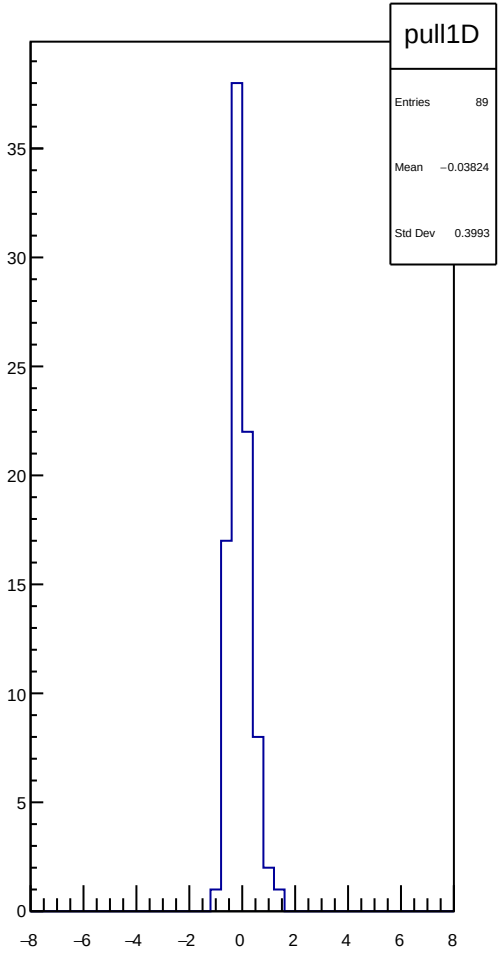

pull1D
Entries 89
Mean −0.0414
Std Dev 0.8713

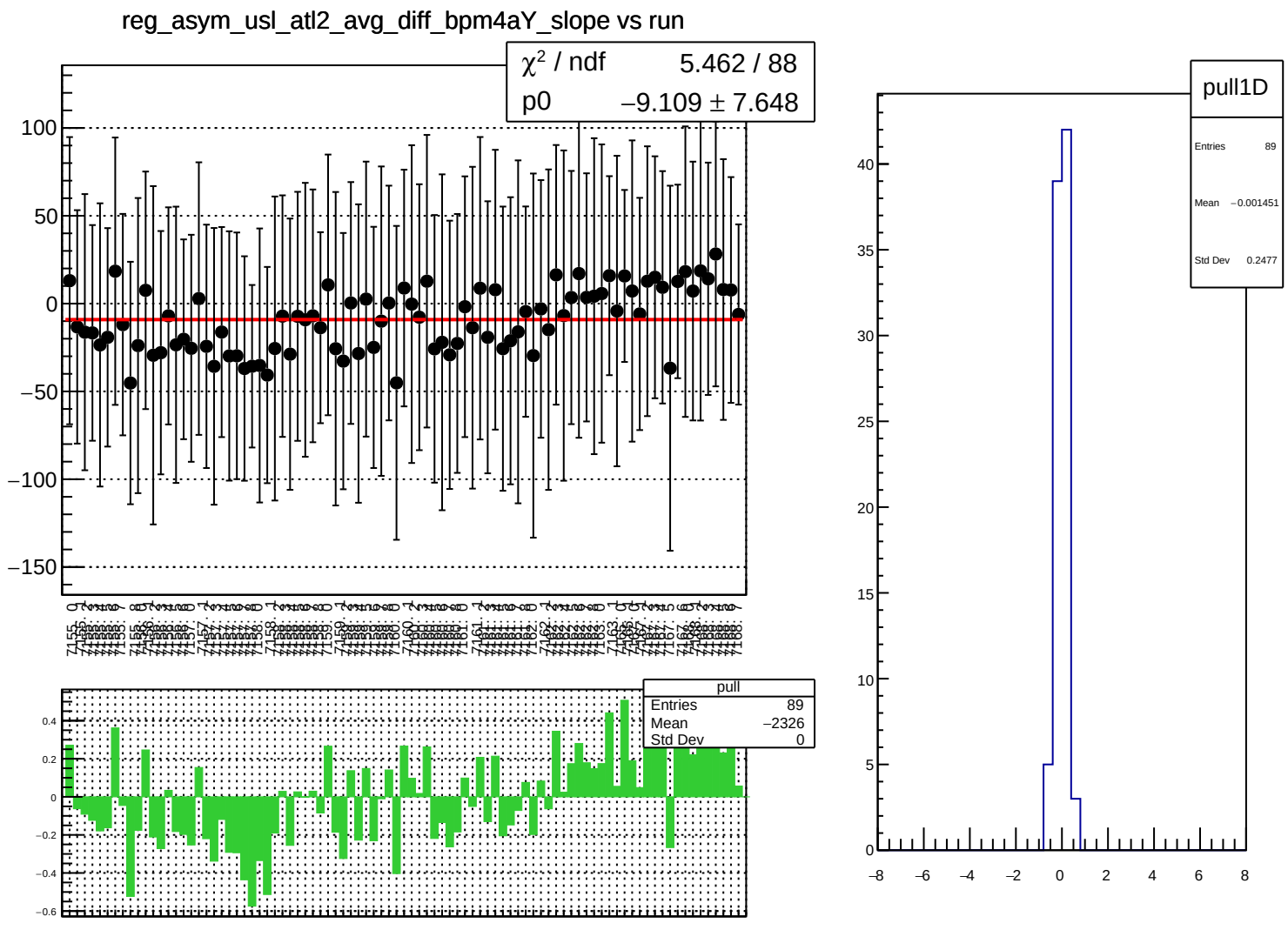

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.31 / 88
p0 13.69 ± 1.259
pull
Entries 89
Mean 65.44
Std Dev 193

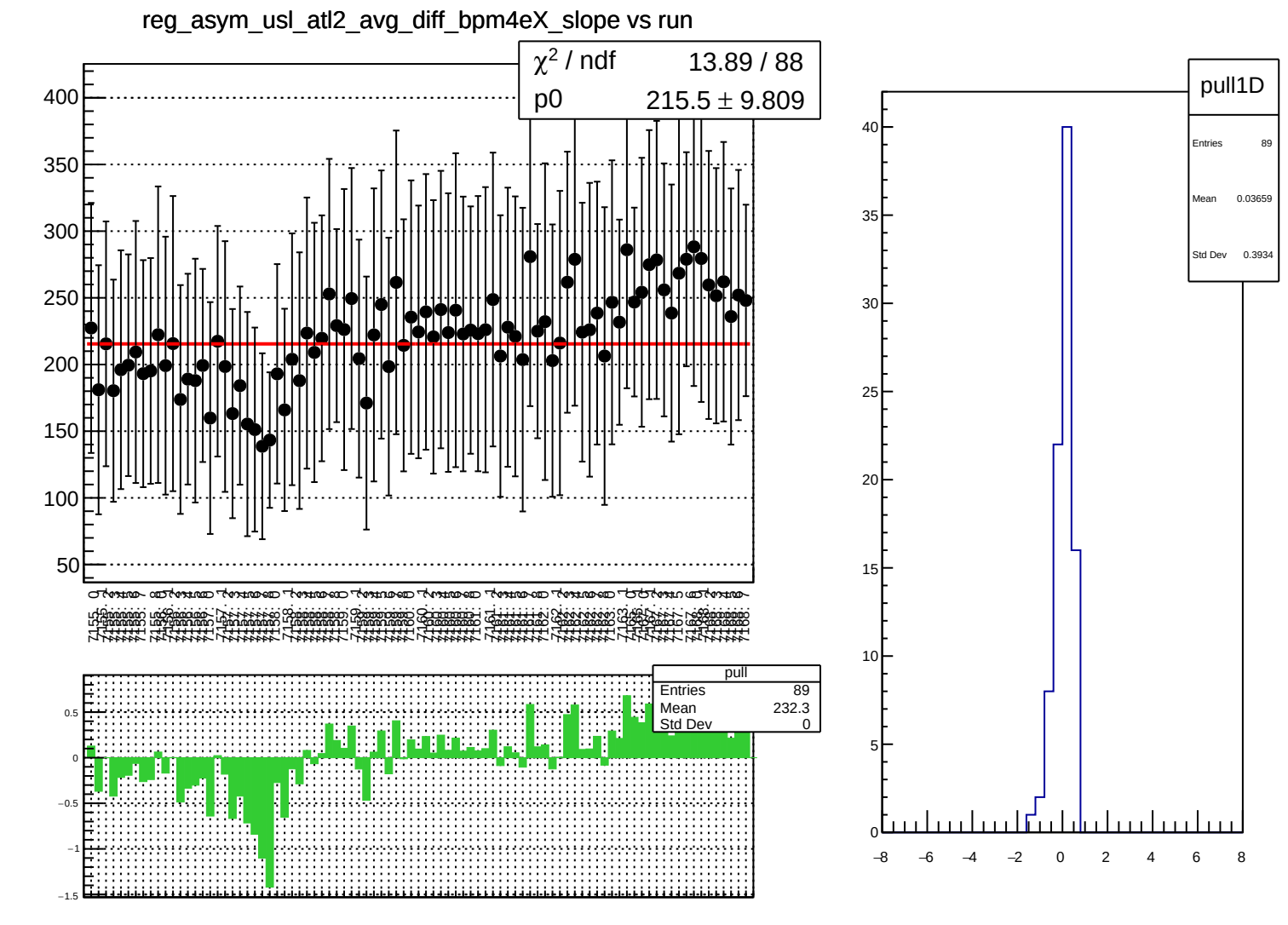

pull1D
Entries 89
Mean −0.0009933
Std Dev 0.8367

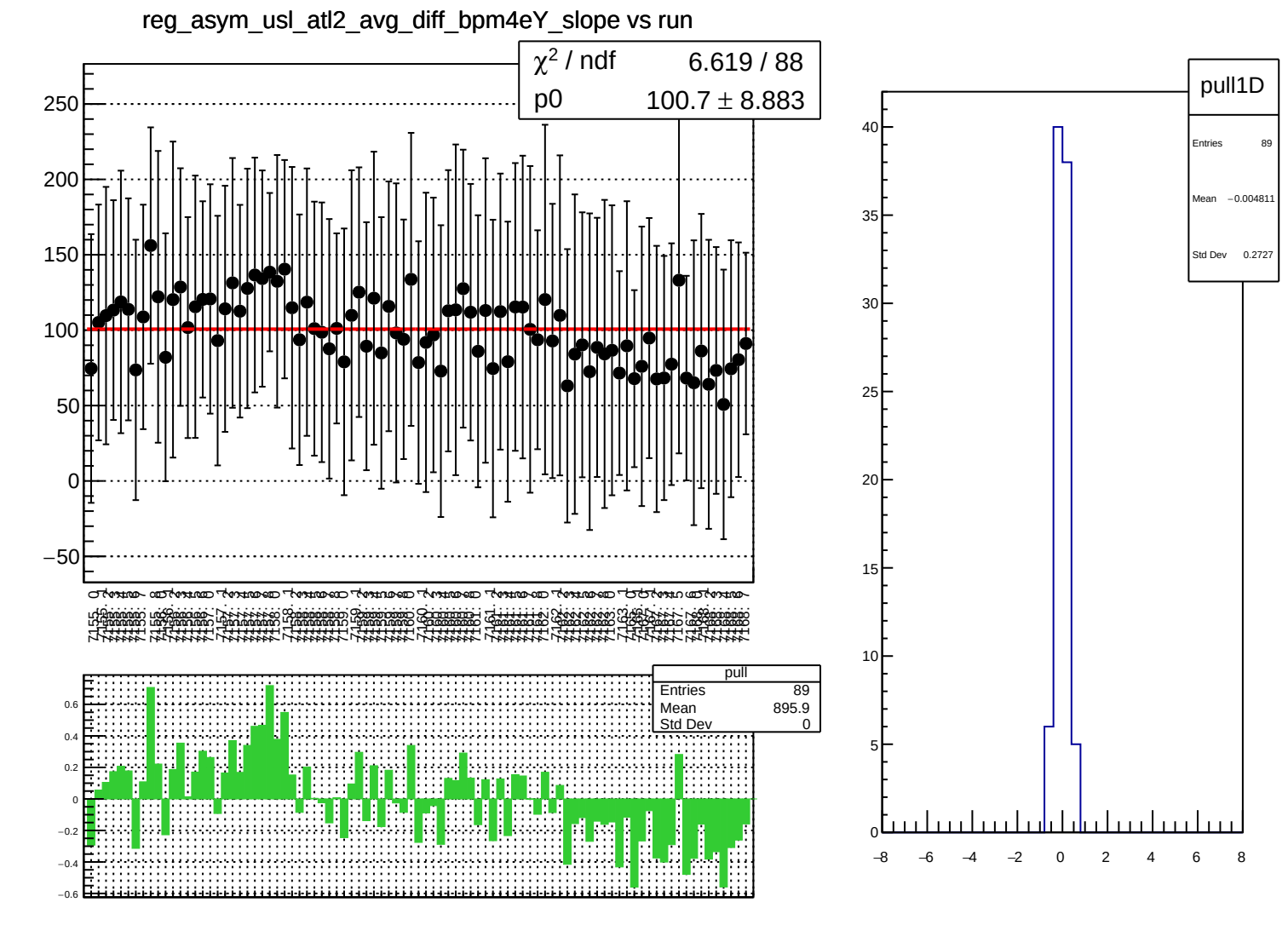

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 70.91 / 88
p0 −11.48 ± 0.04751
pull
Entries 89
Mean 121.9
Std Dev 0
pull1D
Entries 89
Mean −0.02238
Std Dev 0.8923

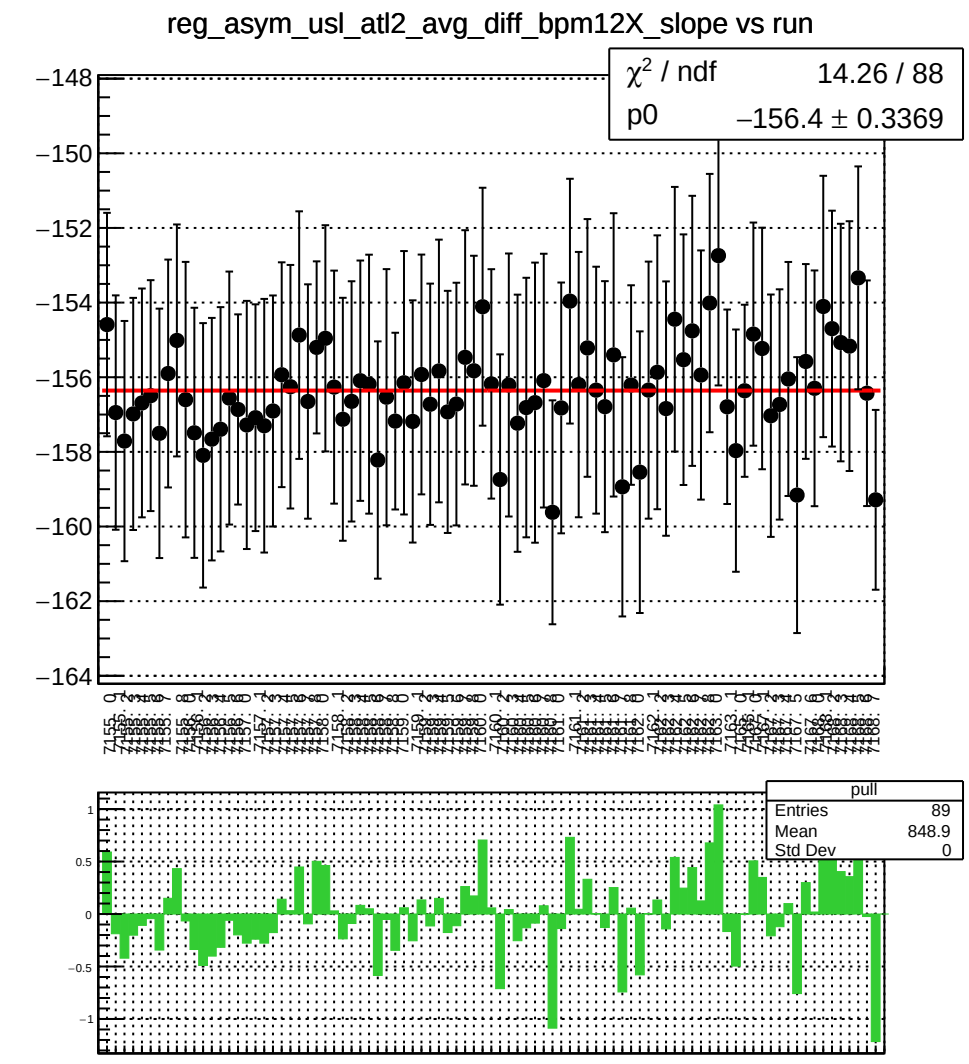

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 14.32 / 88
p0 −272.7 ± 9.683
pull
Entries 89
Mean 232.7
Std Dev 0

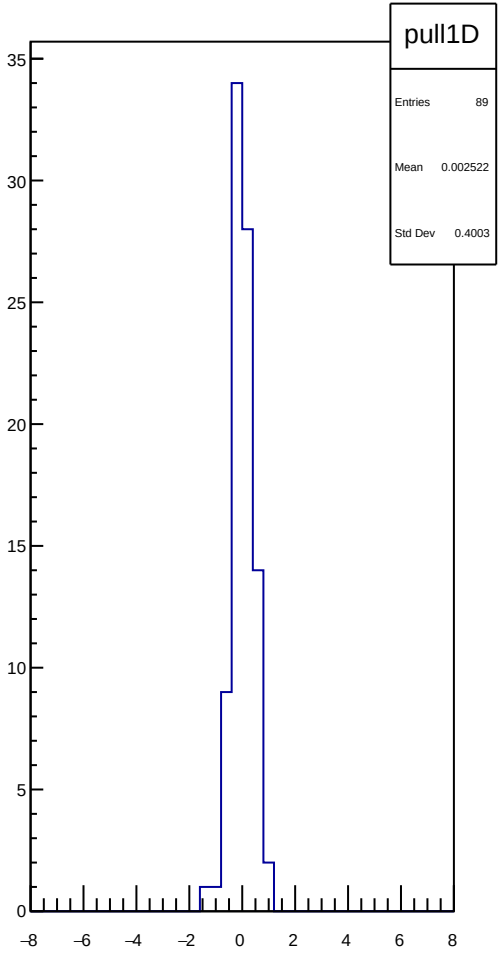

pull1D
Entries 89
Mean −0.03824
Std Dev 0.3993

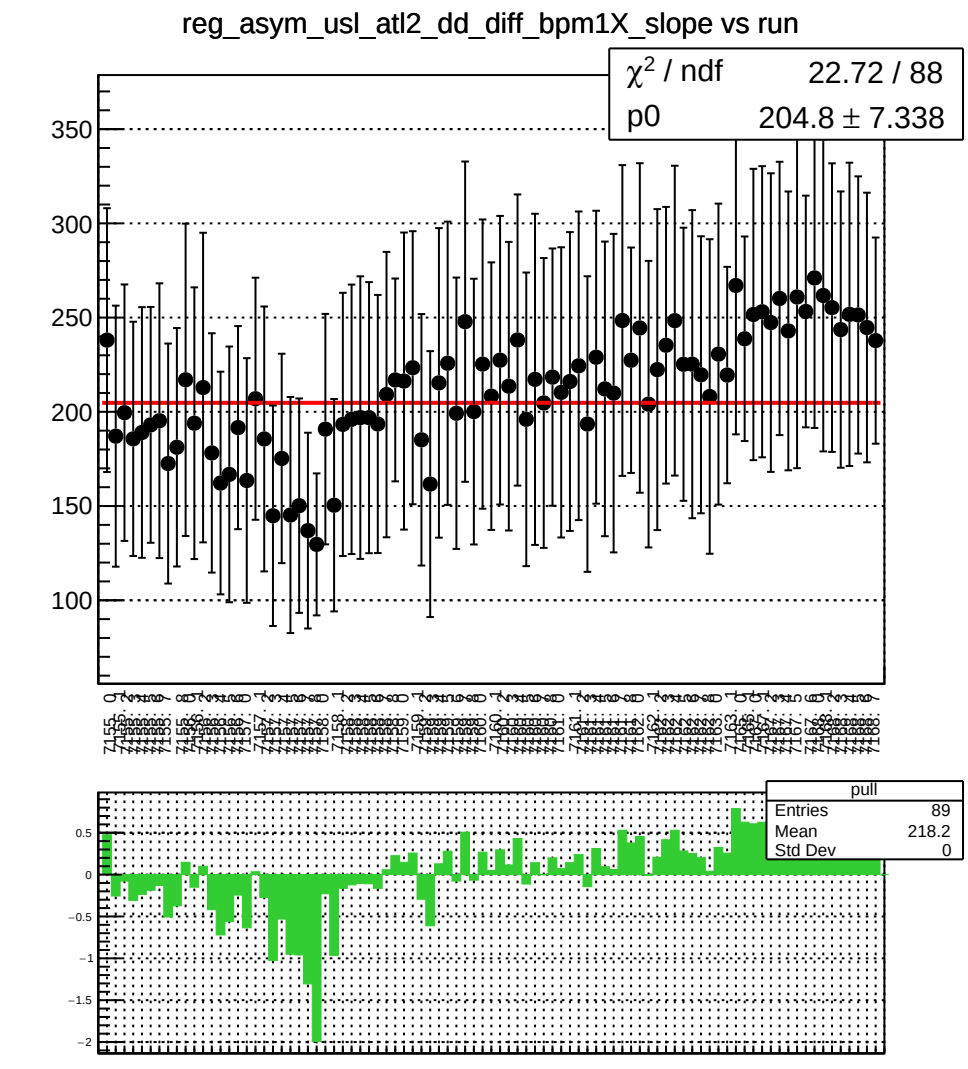

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.462 / 88
p0 −9.109 ± 7.648
pull
Entries 89
Mean −2326
Std Dev 0
pull1D
Entries 89
Mean −0.001451
Std Dev 0.2477

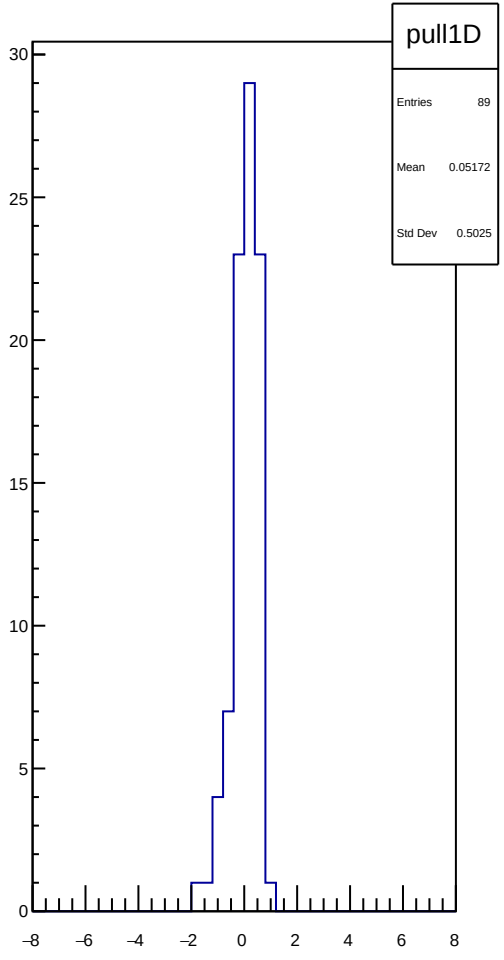

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.89 / 88
p0 215.5 ± 9.809
pull
Entries 89
Mean 232.3
Std Dev 0
pull1D
Entries 89
Mean 0.03659
Std Dev 0.3934

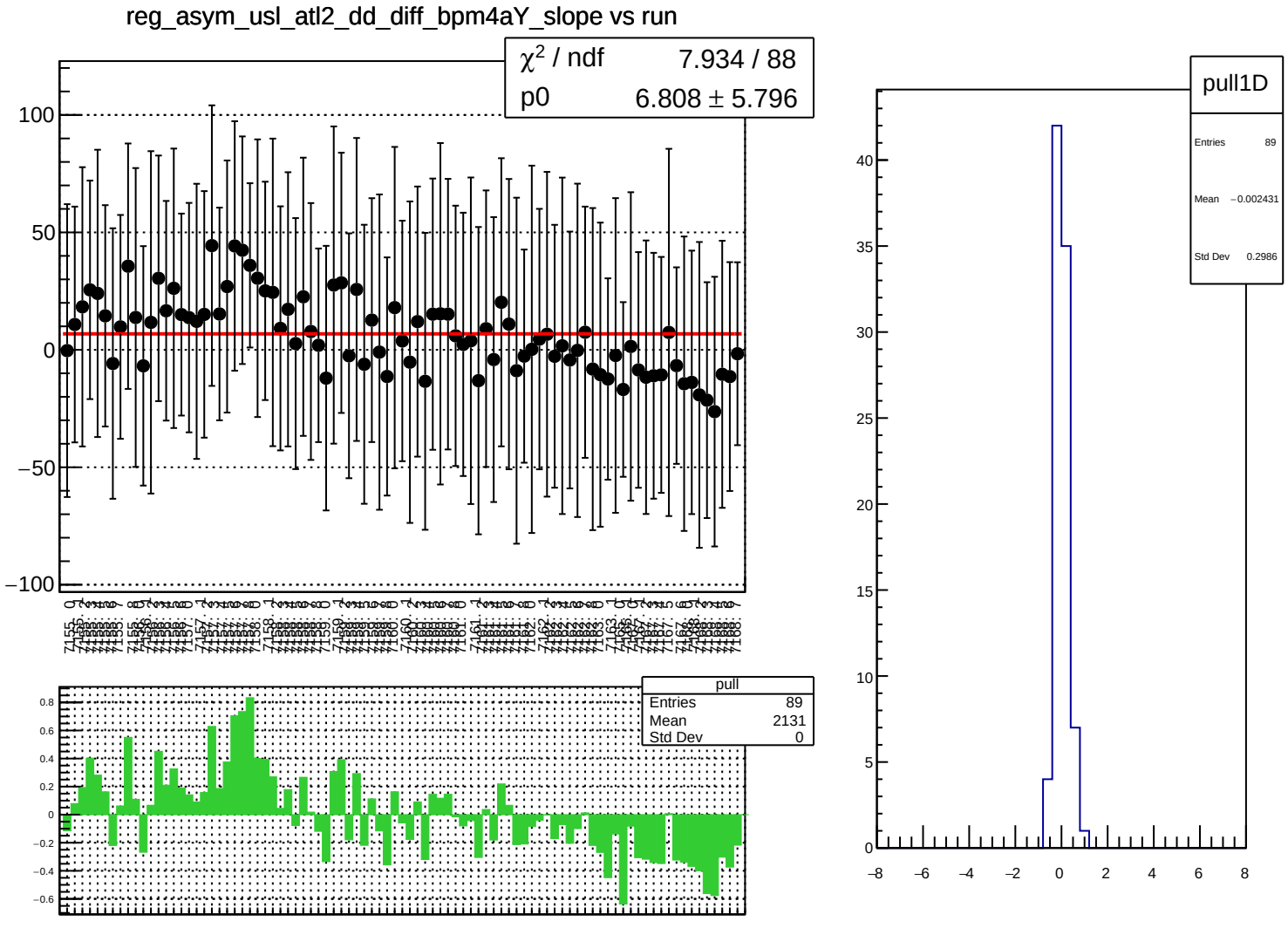

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 6.619 / 88
p0 100.7 ± 8.883
pull
Entries 89
Mean 895.9
Std Dev 0
pull1D
Entries 89
Mean −0.004811
Std Dev 0.2727

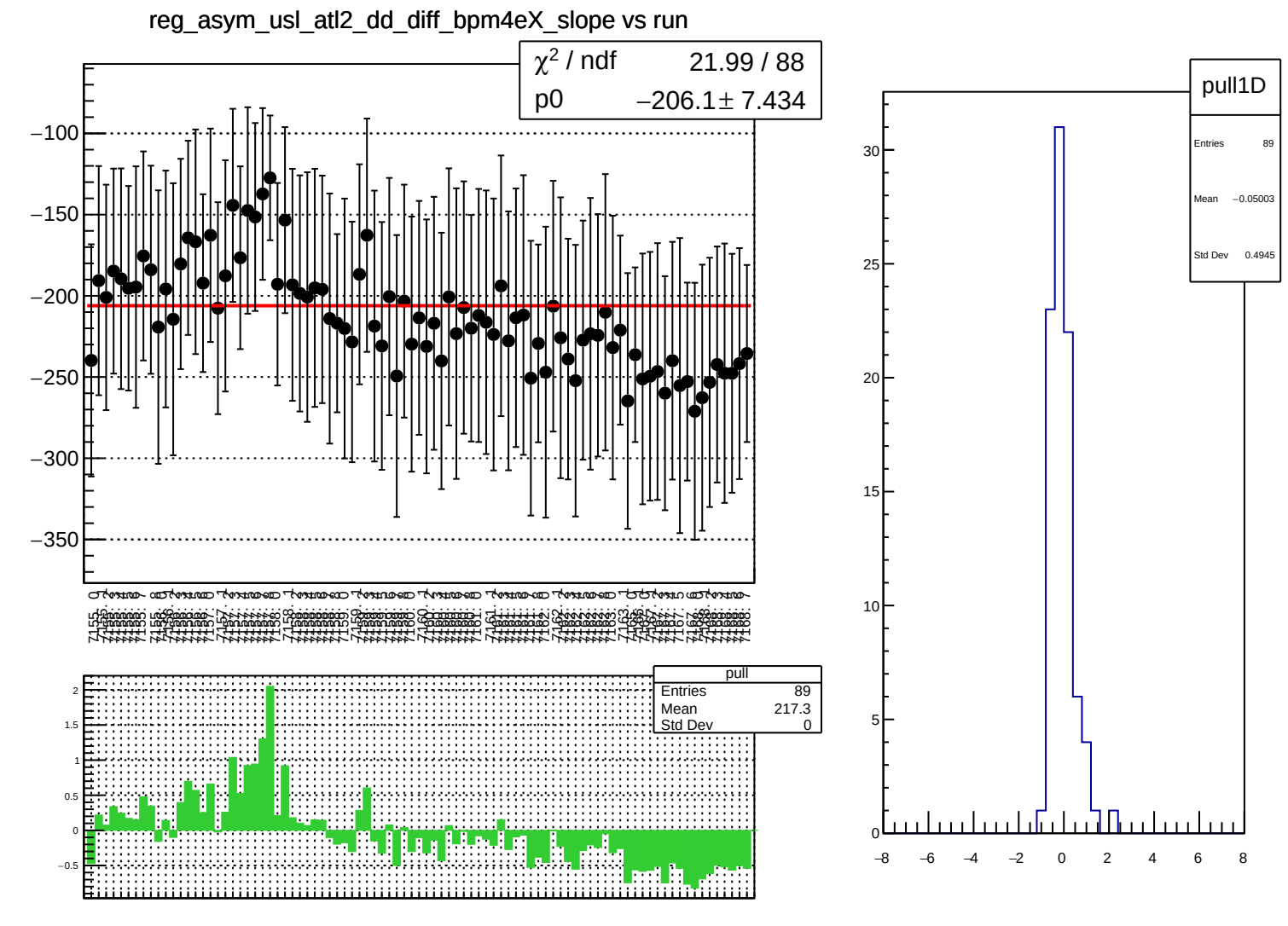

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 14.26 / 88
p0 −156.4 ± 0.3369
pull
Entries 89
Mean 848.9
Std Dev 0

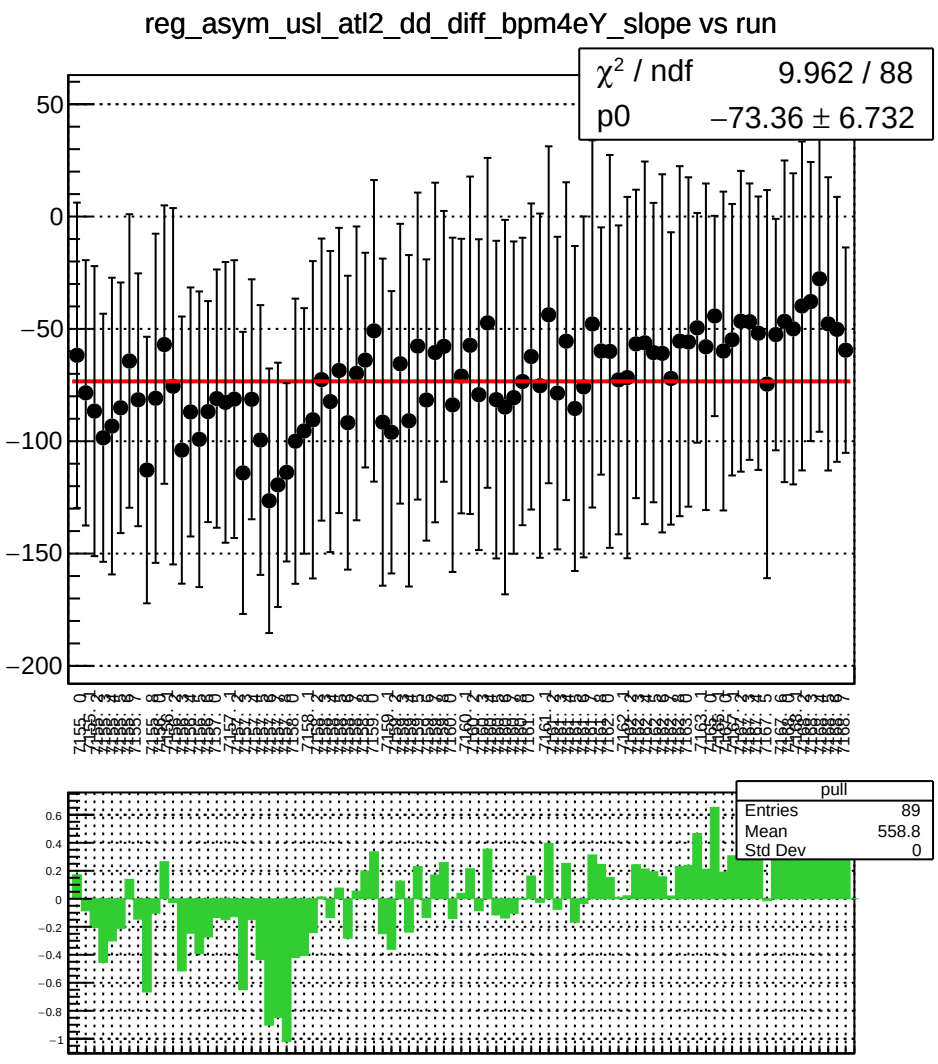

pull1D
Entries 89
Mean 0.002522
Std Dev 0.4003

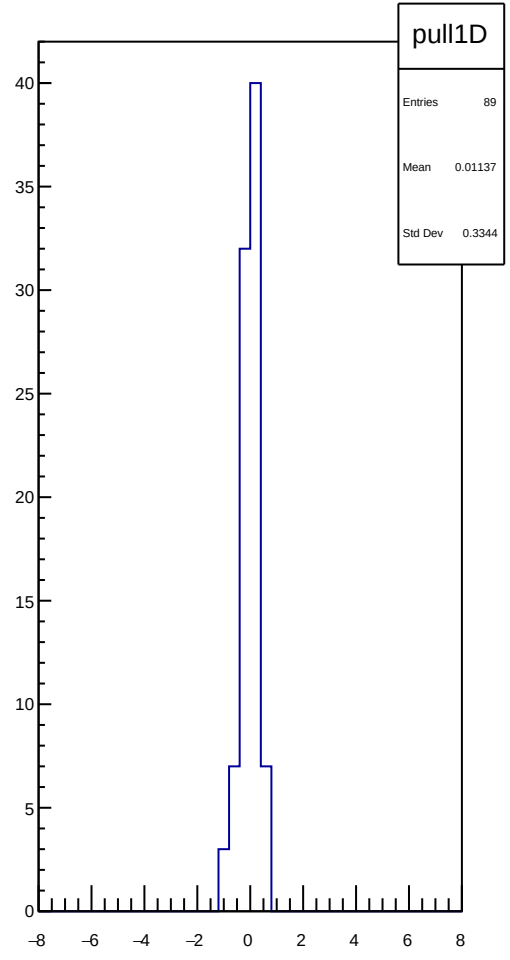

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 22.72 / 88
p0 204.8 ± 7.338
350
300
250
200
150
100
pull
Entries 89
Mean 218.2
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2

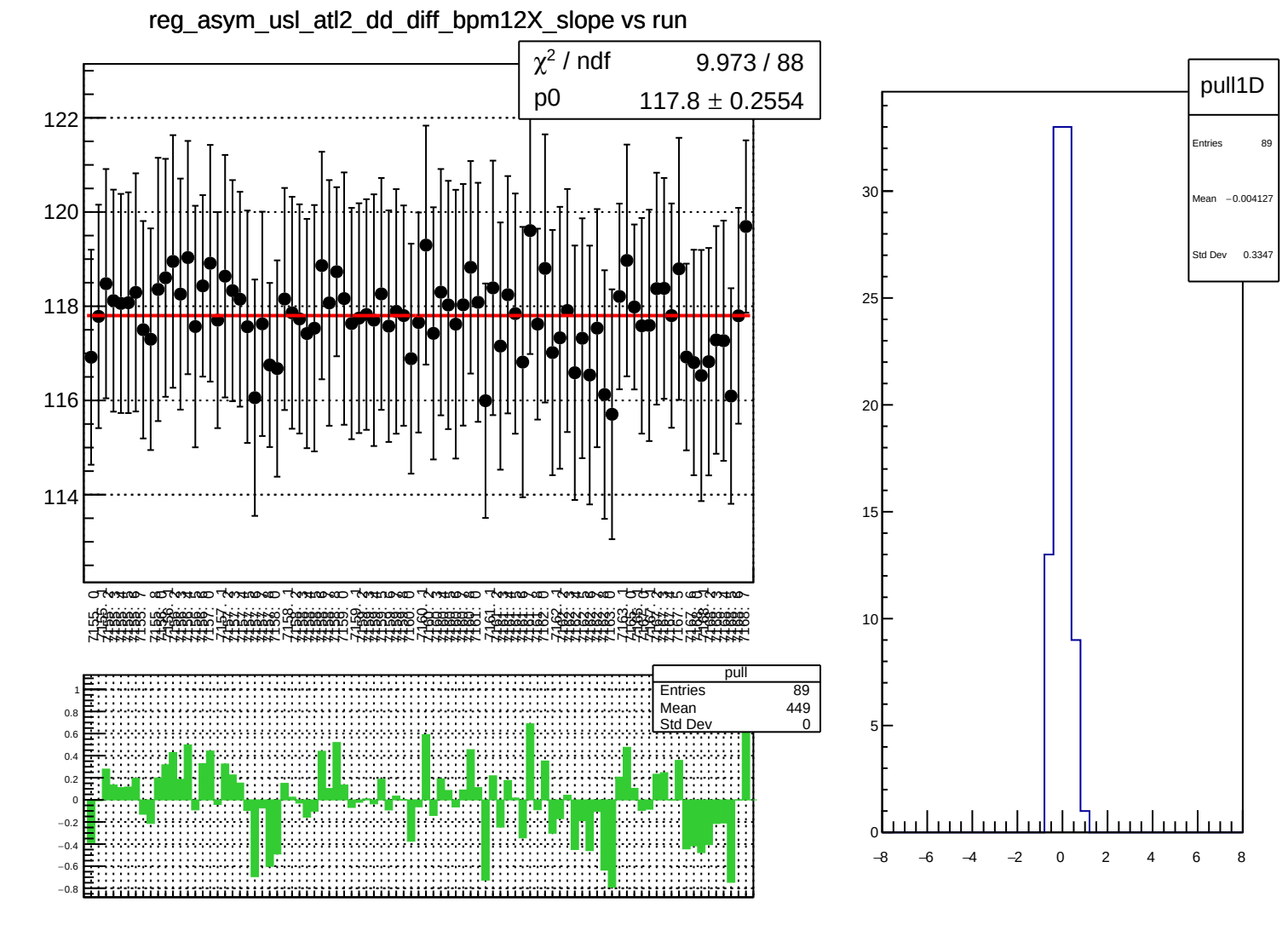

pull1D
Entries 89
Mean 0.05172
Std Dev 0.5025
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

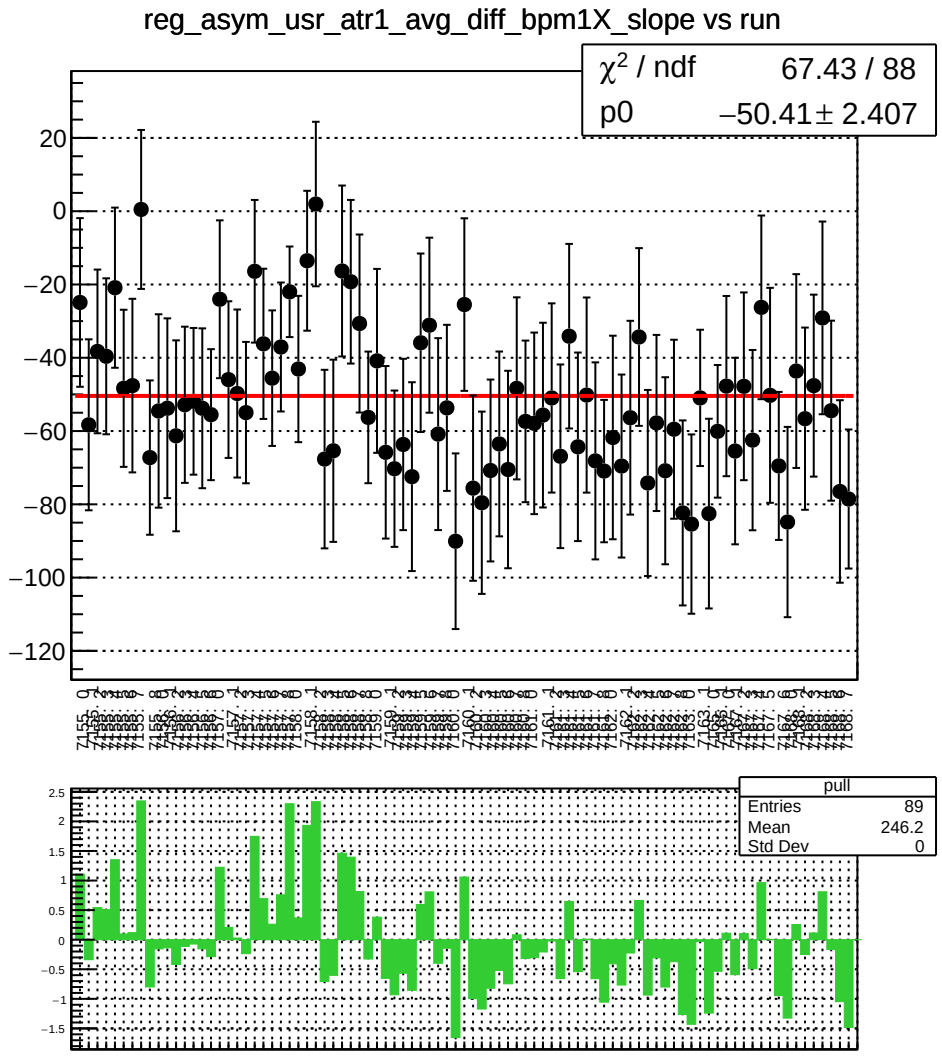

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.934 / 88
p0 6.808 ± 5.796
100
50
0
−50
−100
pull
Entries 89
Mean 2131
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 89
Mean −0.002431
Std Dev 0.2986
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

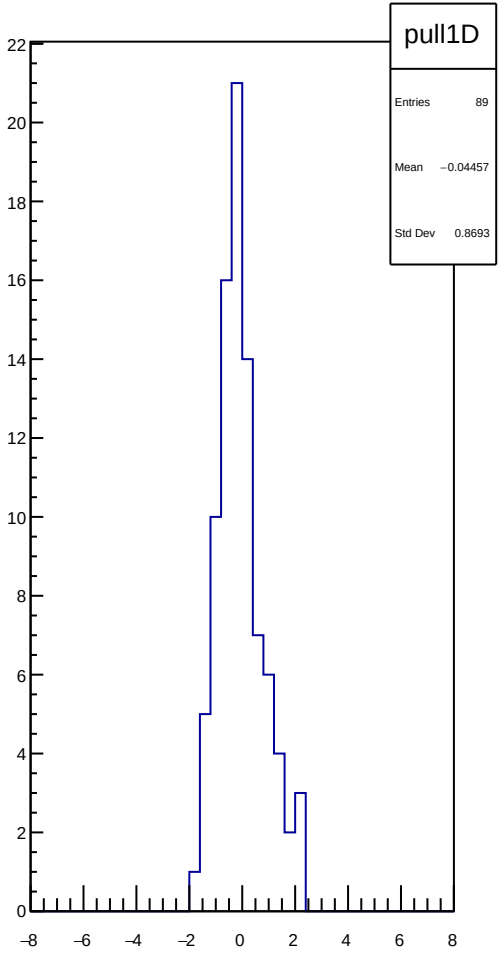

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.99 / 88
p0 −206.1± 7.434
−100
−150
−200
−250
−300
−350
pull
Entries 89
Mean 217.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.05003
Std Dev 0.4945
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

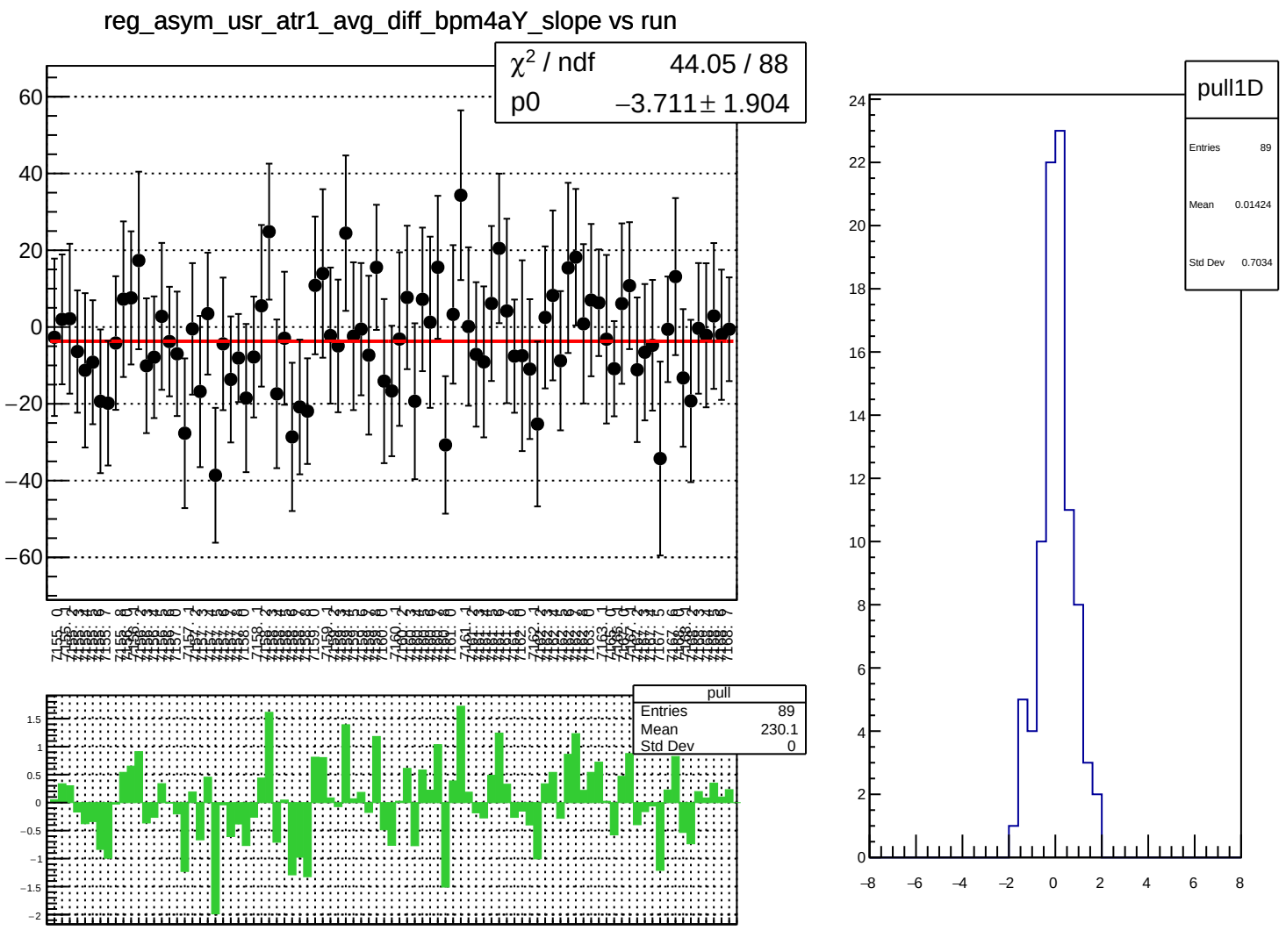

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.962 / 88
p0 −73.36 ± 6.732
pull
Entries 89
Mean 558.8
Std Dev 0

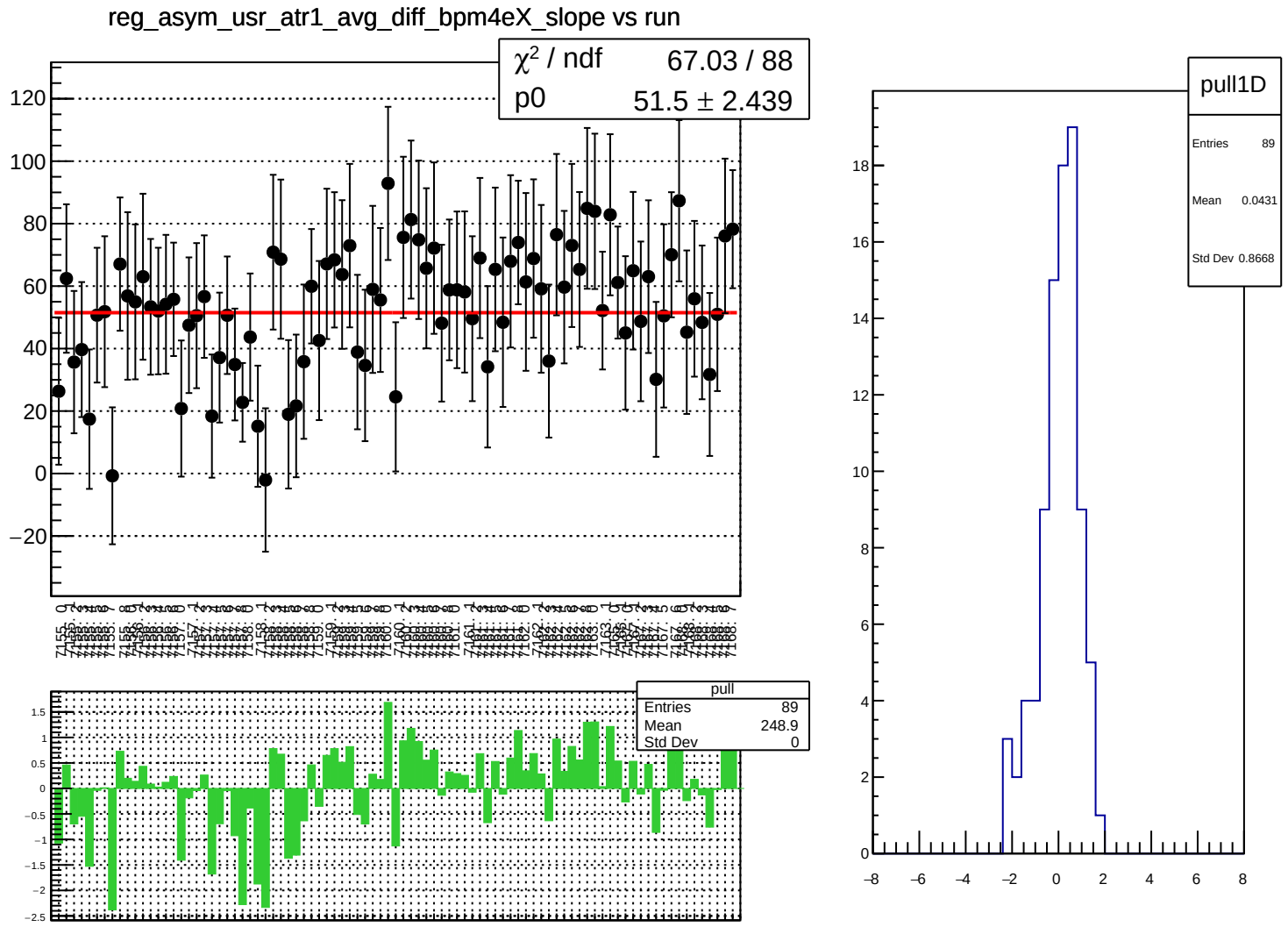

pull1D
Entries 89
Mean 0.01137
Std Dev 0.3344

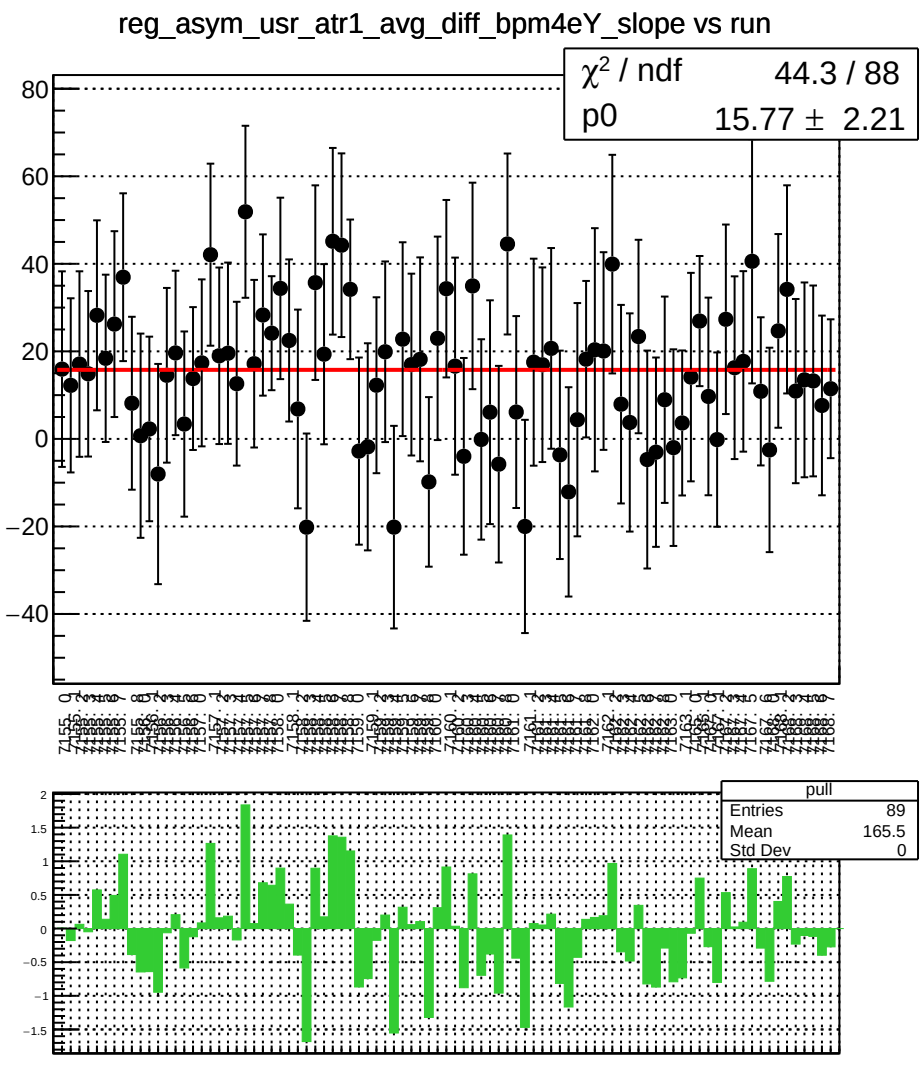

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.973 / 88
p0 117.8 ± 0.2554
122
120
118
116
114
pull
Entries 89
Mean 449
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean −0.004127
Std Dev 0.3347
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

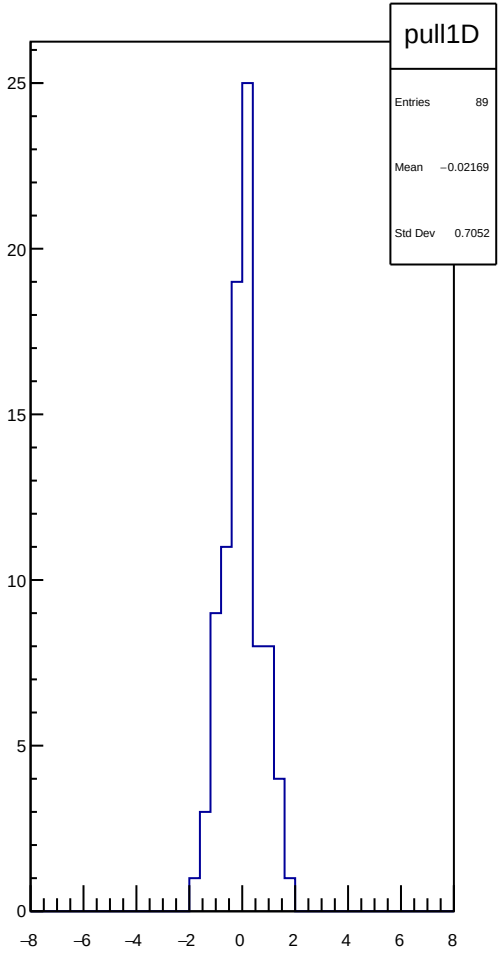

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 67.43 / 88
p0 −50.41 ± 2.407
pull
Entries 89
Mean 246.2
Std Dev 0

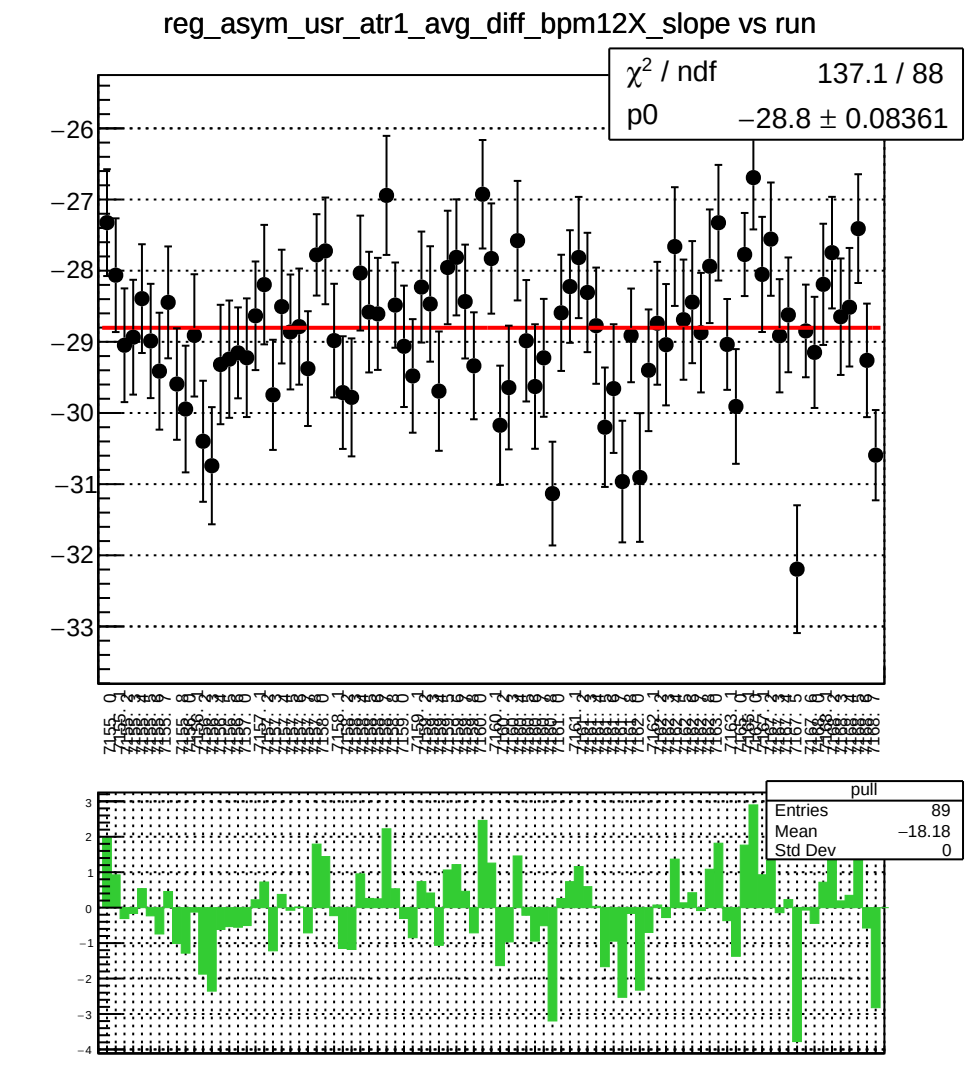

pull1D
Entries 89
Mean −0.04457
Std Dev 0.8693

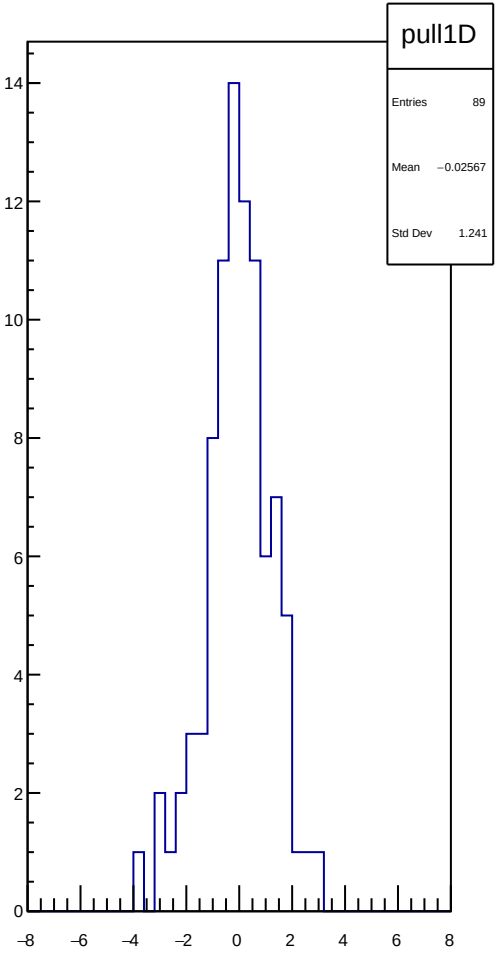

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.05 / 88
p0 −3.711± 1.904
pull
Entries 89
Mean 230.1
Std Dev 0
pull1D
Entries 89
Mean 0.01424
Std Dev 0.7034

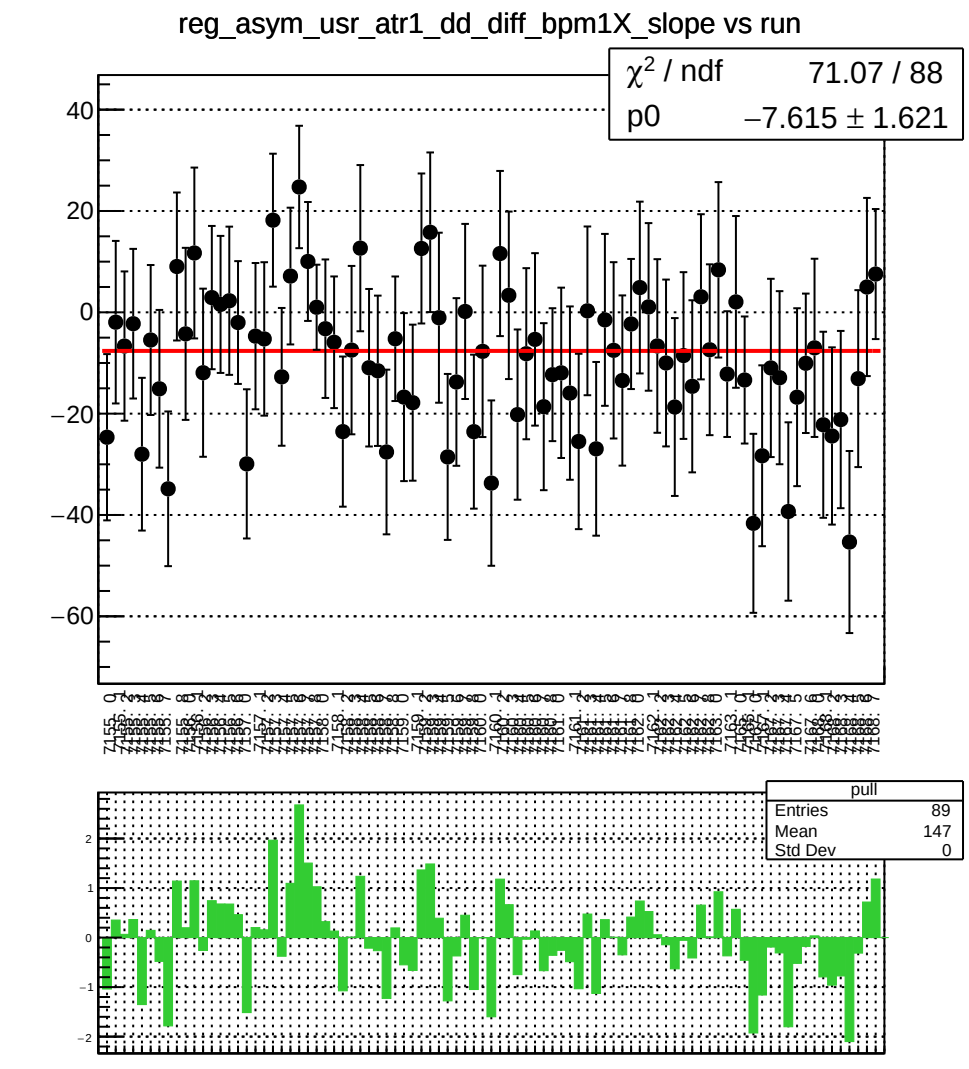

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 67.03 / 88
p0 51.5 ± 2.439
pull
Entries 89
Mean 248.9
Std Dev 0
pull1D
Entries 89
Mean 0.0431
Std Dev 0.8668

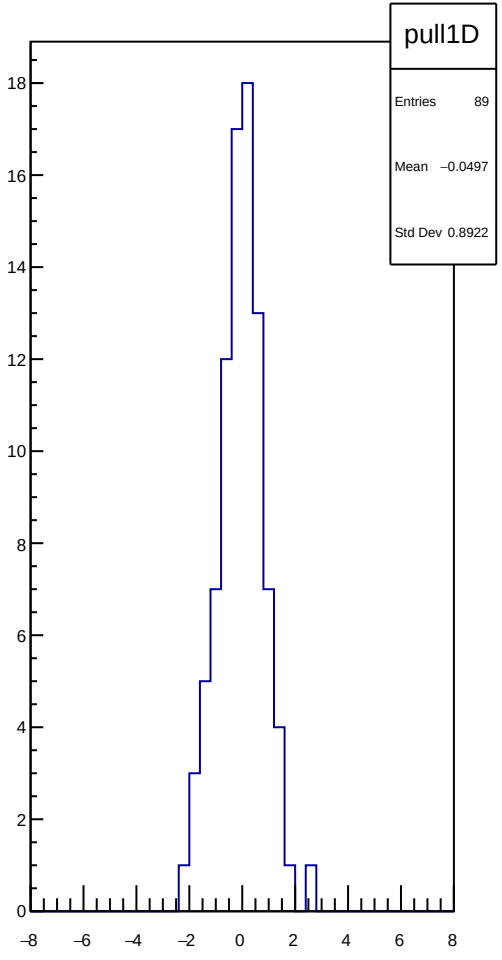

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 44.3 / 88
p0 15.77 ± 2.21
pull
Entries 89
Mean 165.5
Std Dev 0

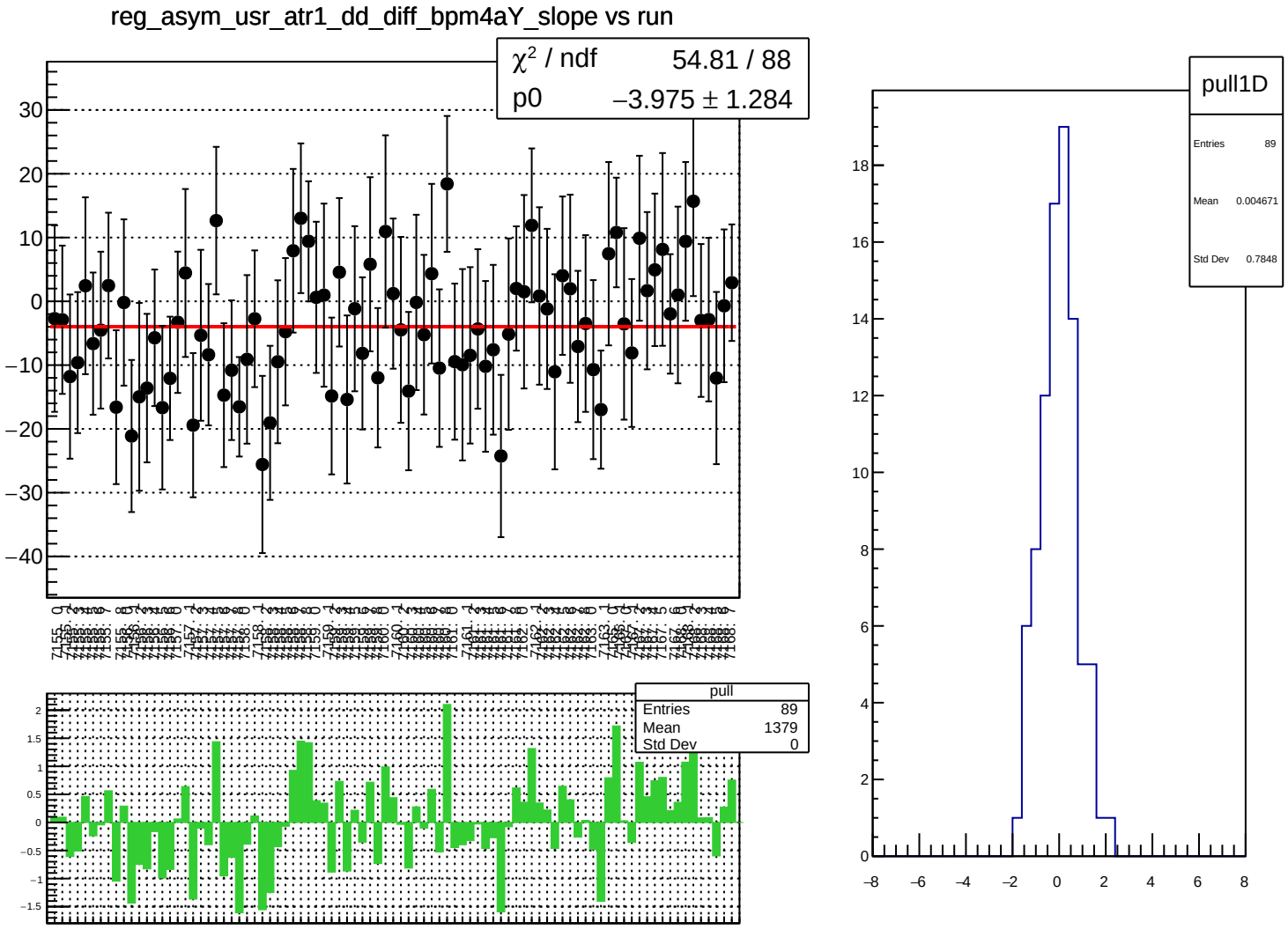

pull1D
Entries 89
Mean −0.02169
Std Dev 0.7052

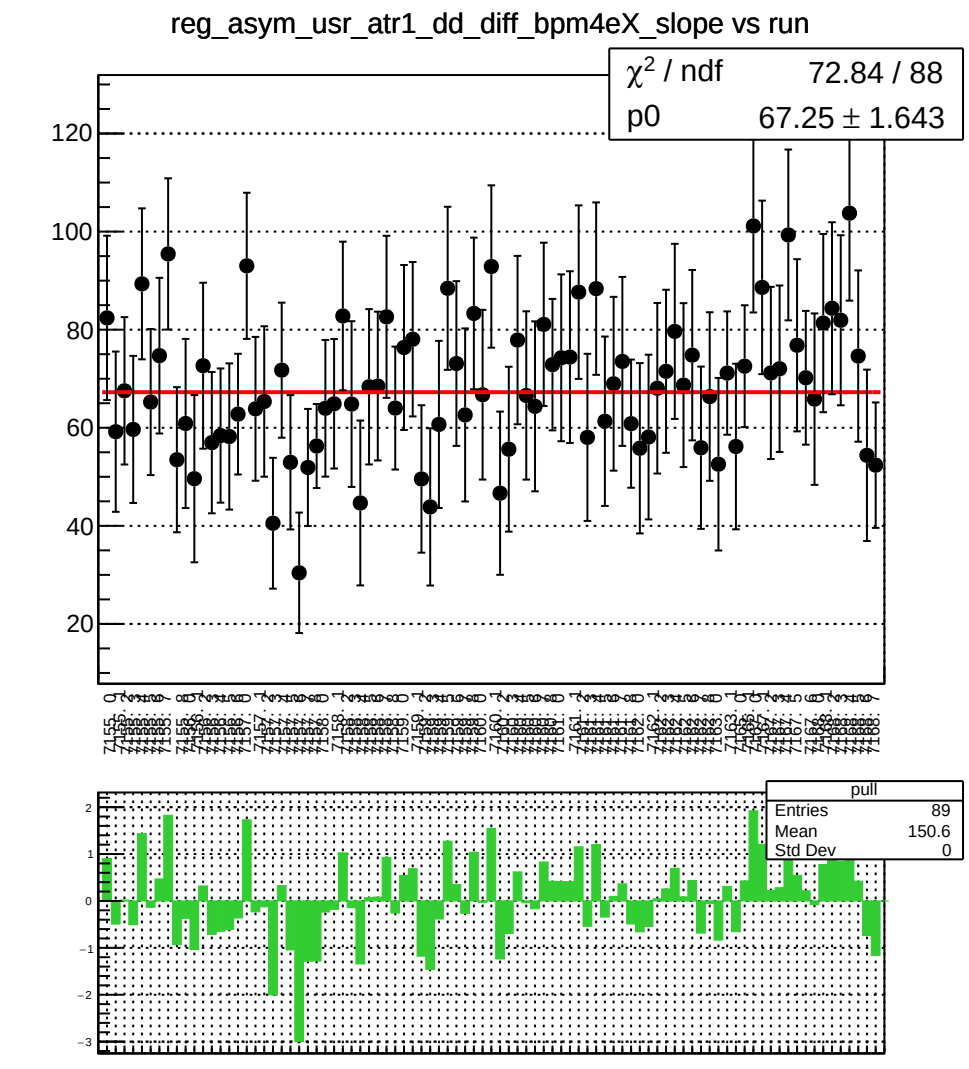

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 137.1 / 88
p0 −28.8 ± 0.08361
pull
Entries 89
Mean −18.18
Std Dev 0

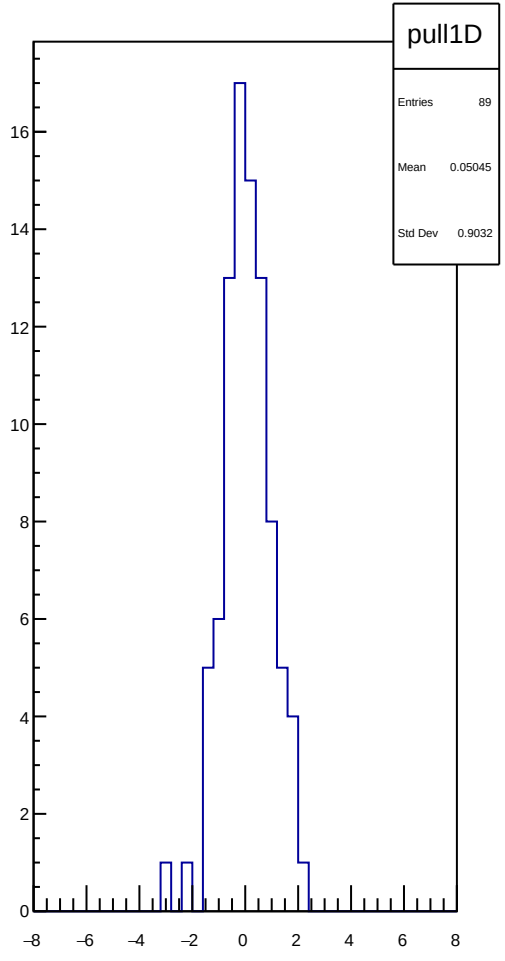

pull1D
Entries 89
Mean −0.02567
Std Dev 1.241

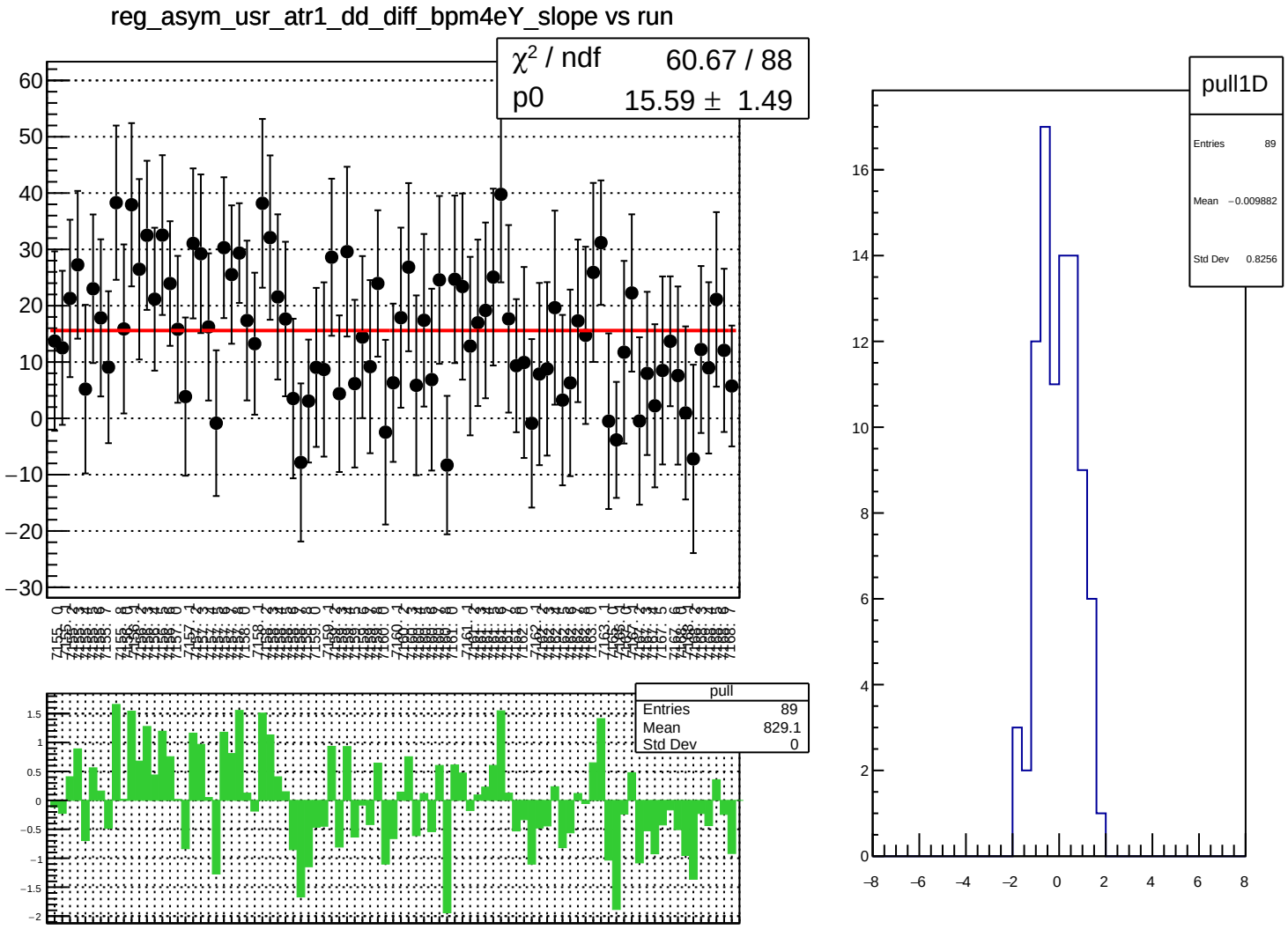

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 71.07 / 88
p0 −7.615 ± 1.621
pull
Entries 89
Mean 147
Std Dev 0

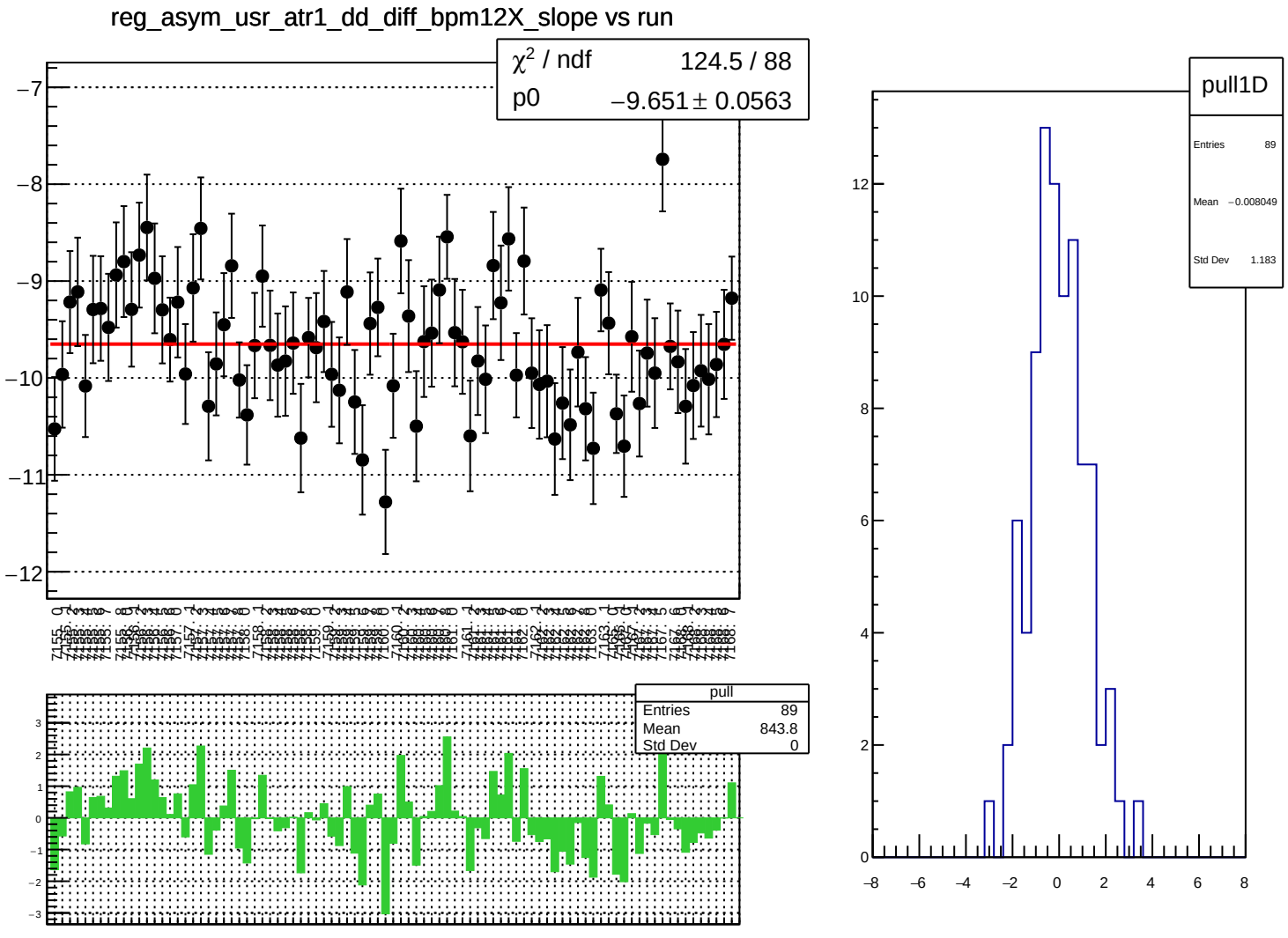

pull1D
Entries 89
Mean −0.0497
Std Dev 0.8922

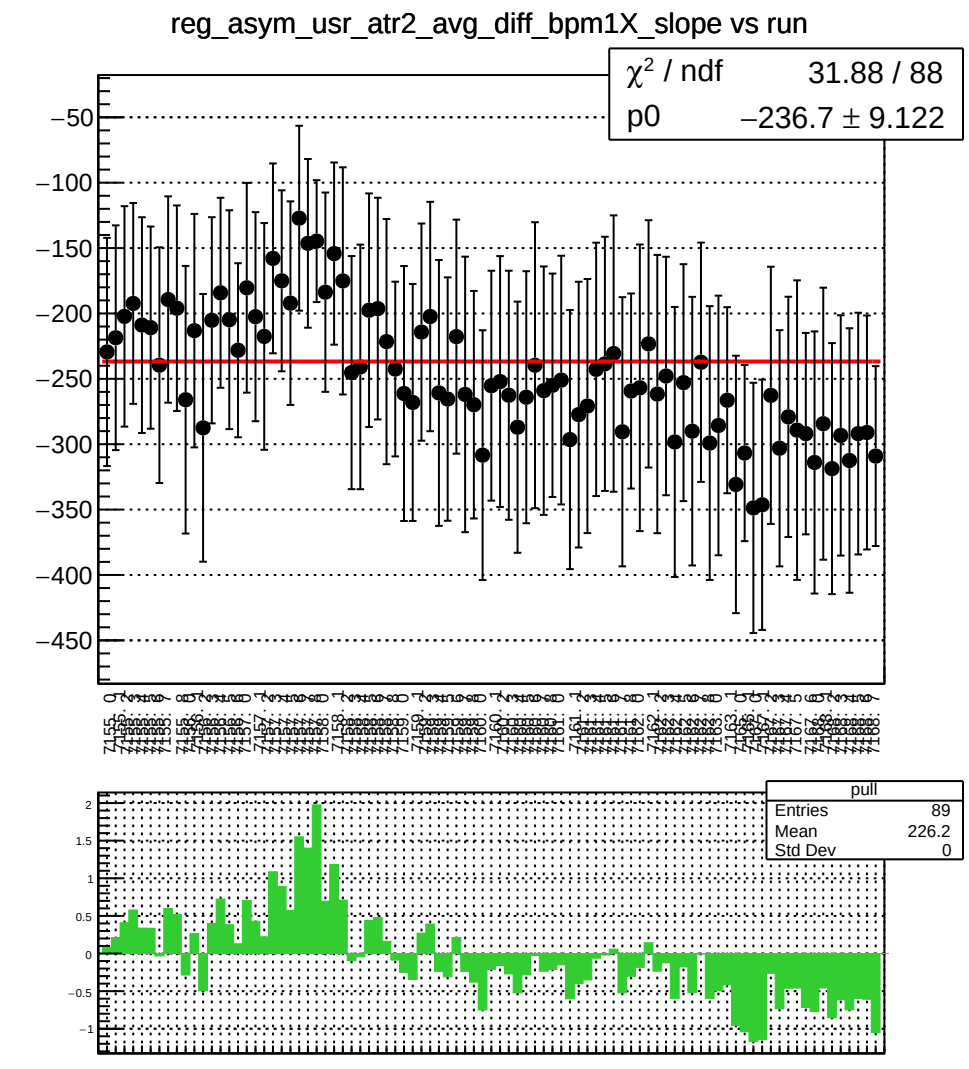

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.81 / 88
p0 −3.975 ± 1.284
pull
Entries 89
Mean 1379
Std Dev 0
pull1D
Entries 89
Mean 0.004671
Std Dev 0.7848

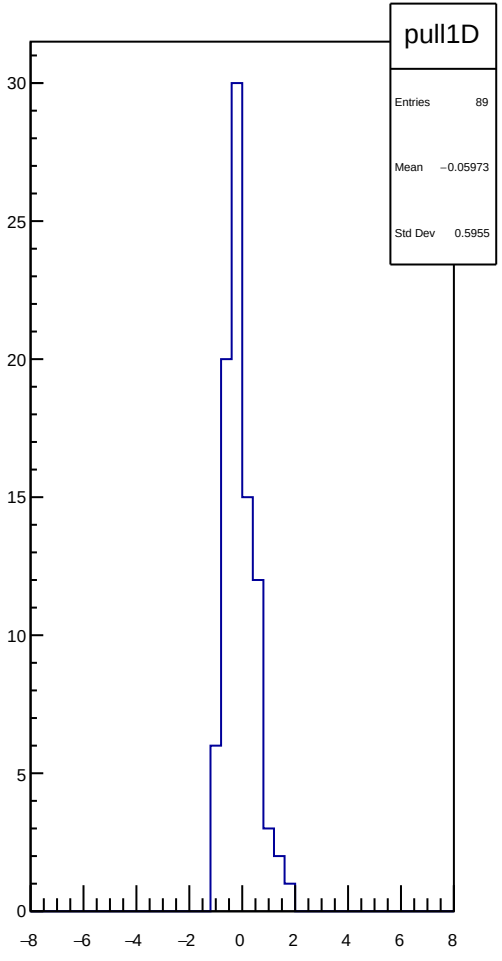

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 72.84 / 88
p0 67.25 ± 1.643
pull
Entries 89
Mean 150.6
Std Dev 0

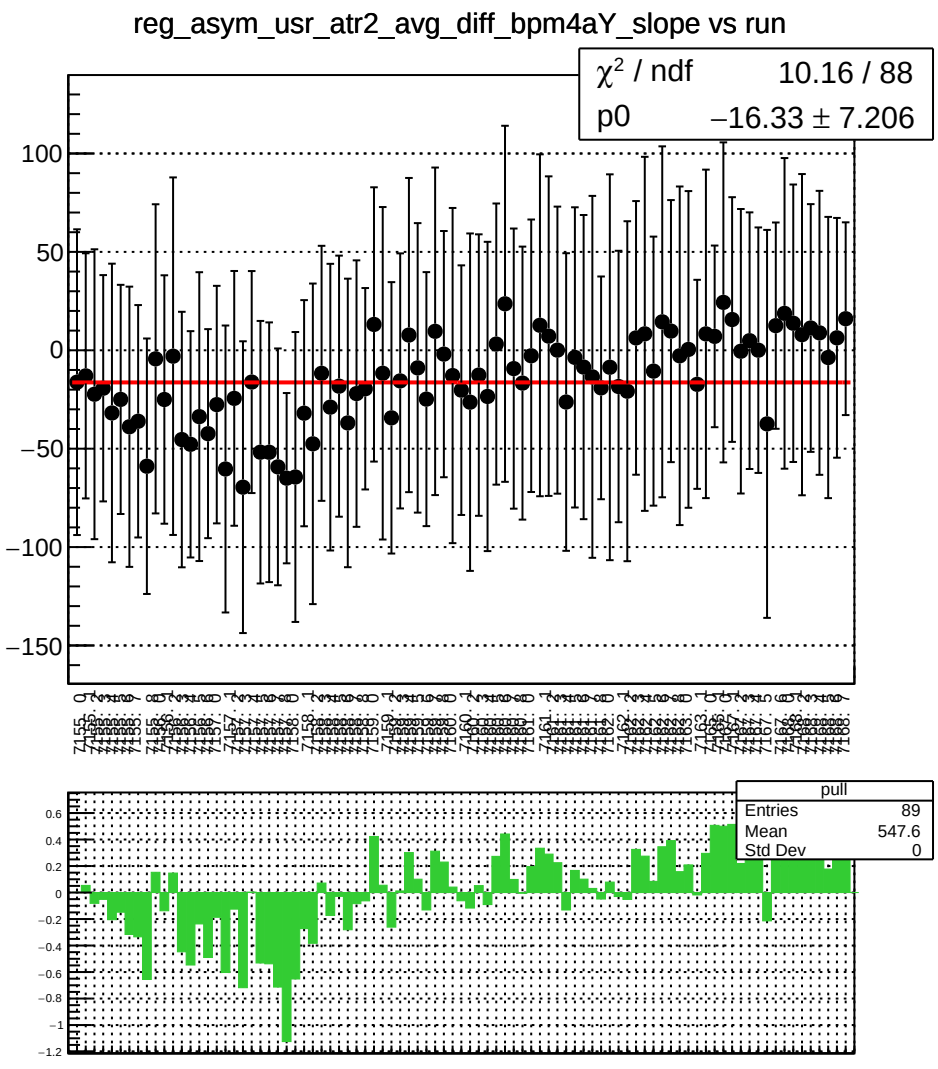

pull1D
Entries 89
Mean 0.05045
Std Dev 0.9032

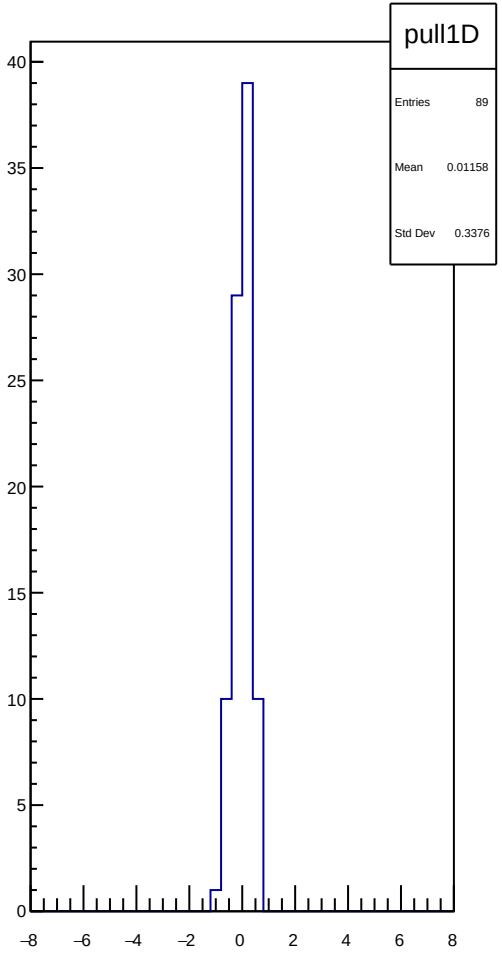

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.67 / 88
p0 15.59 ± 1.49
pull
Entries 89
Mean 829.1
Std Dev 0
pull1D
Entries 89
Mean −0.009882
Std Dev 0.8256

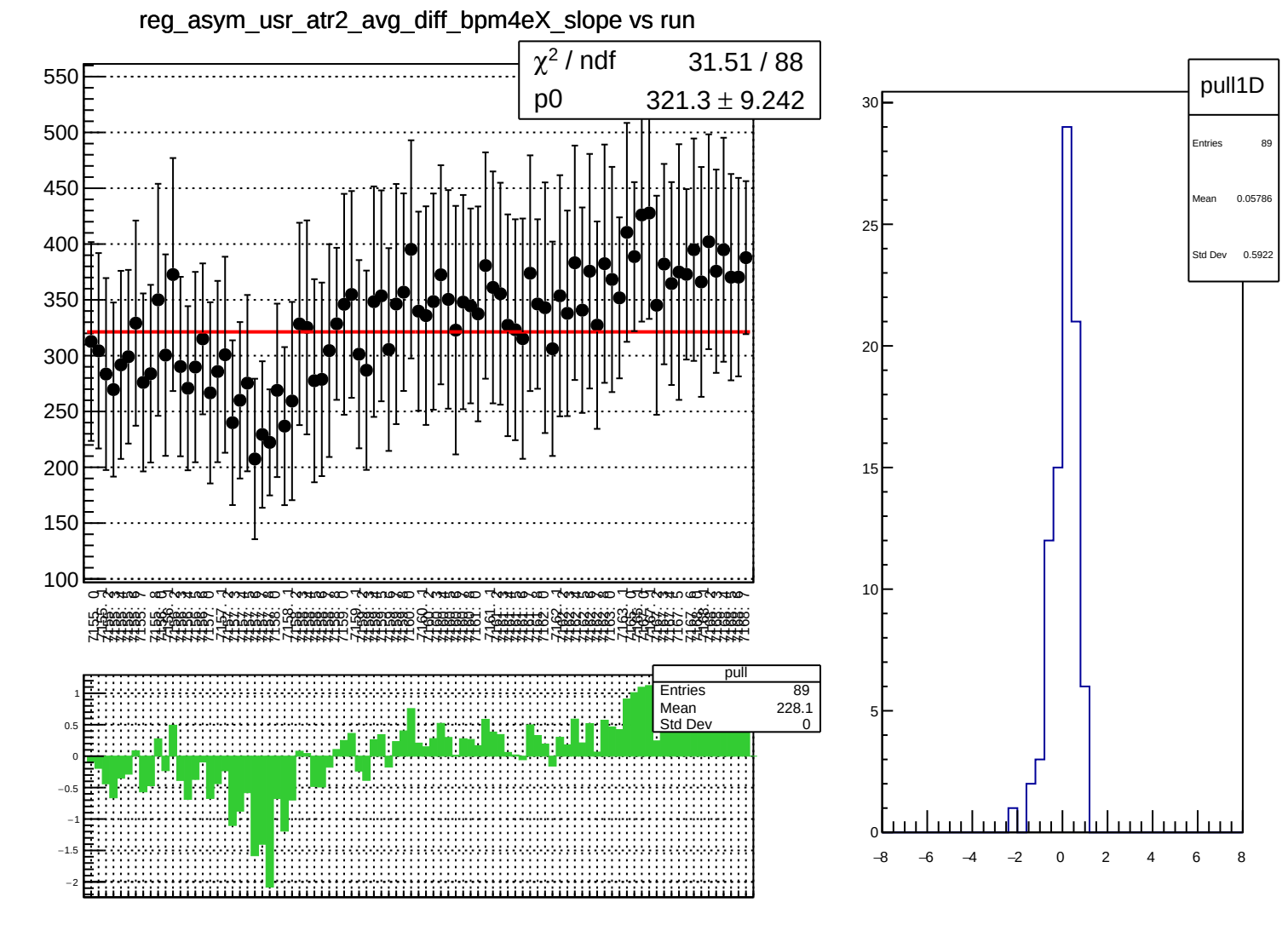

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 124.5 / 88
p0 −9.651 ± 0.0563
pull
Entries 89
Mean 843.8
Std Dev 0
pull1D
Entries 89
Mean −0.008049
Std Dev 1.183

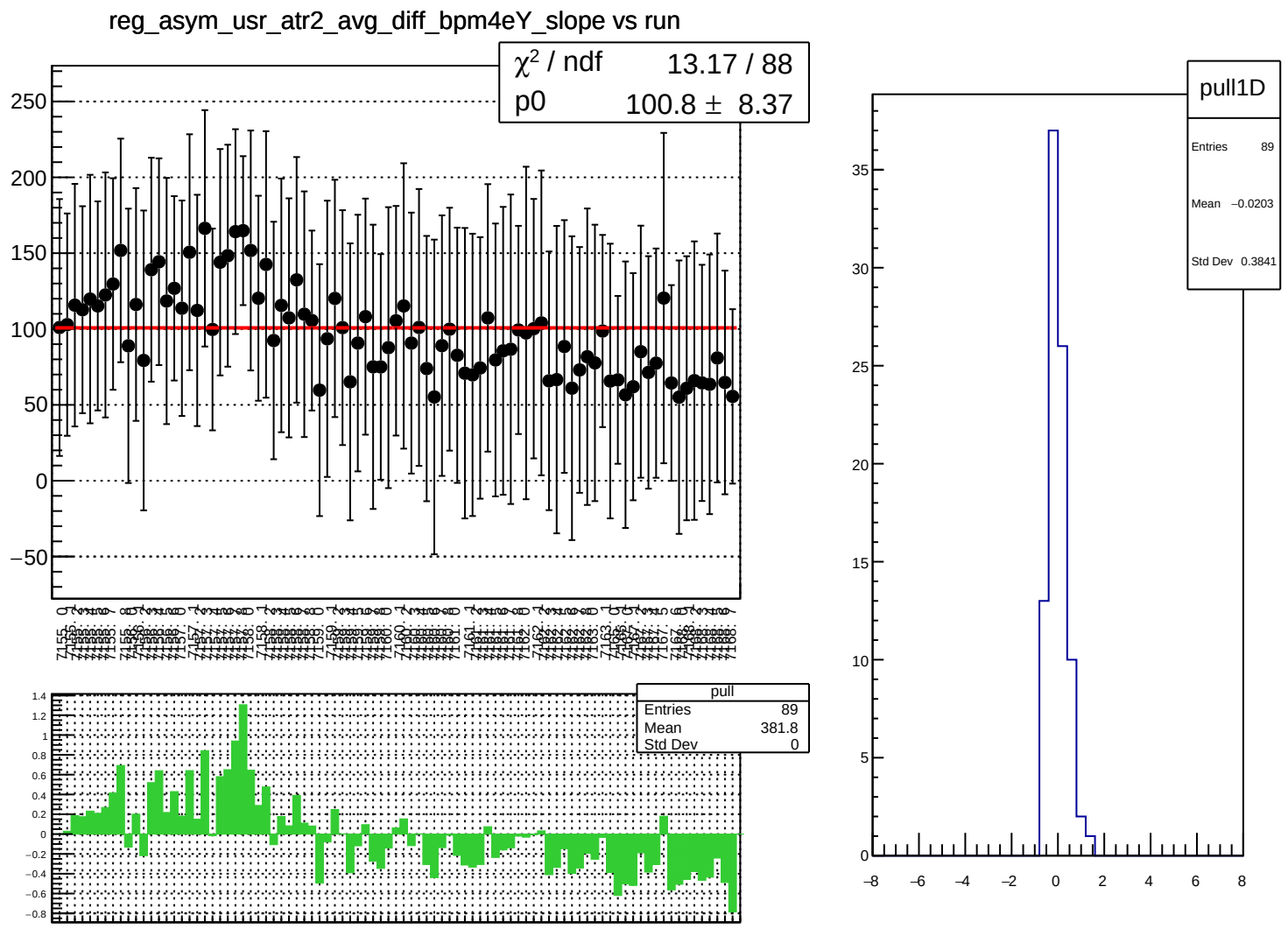

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 31.88 / 88
p0 −236.7 ± 9.122
pull
Entries 89
Mean 226.2
Std Dev 0

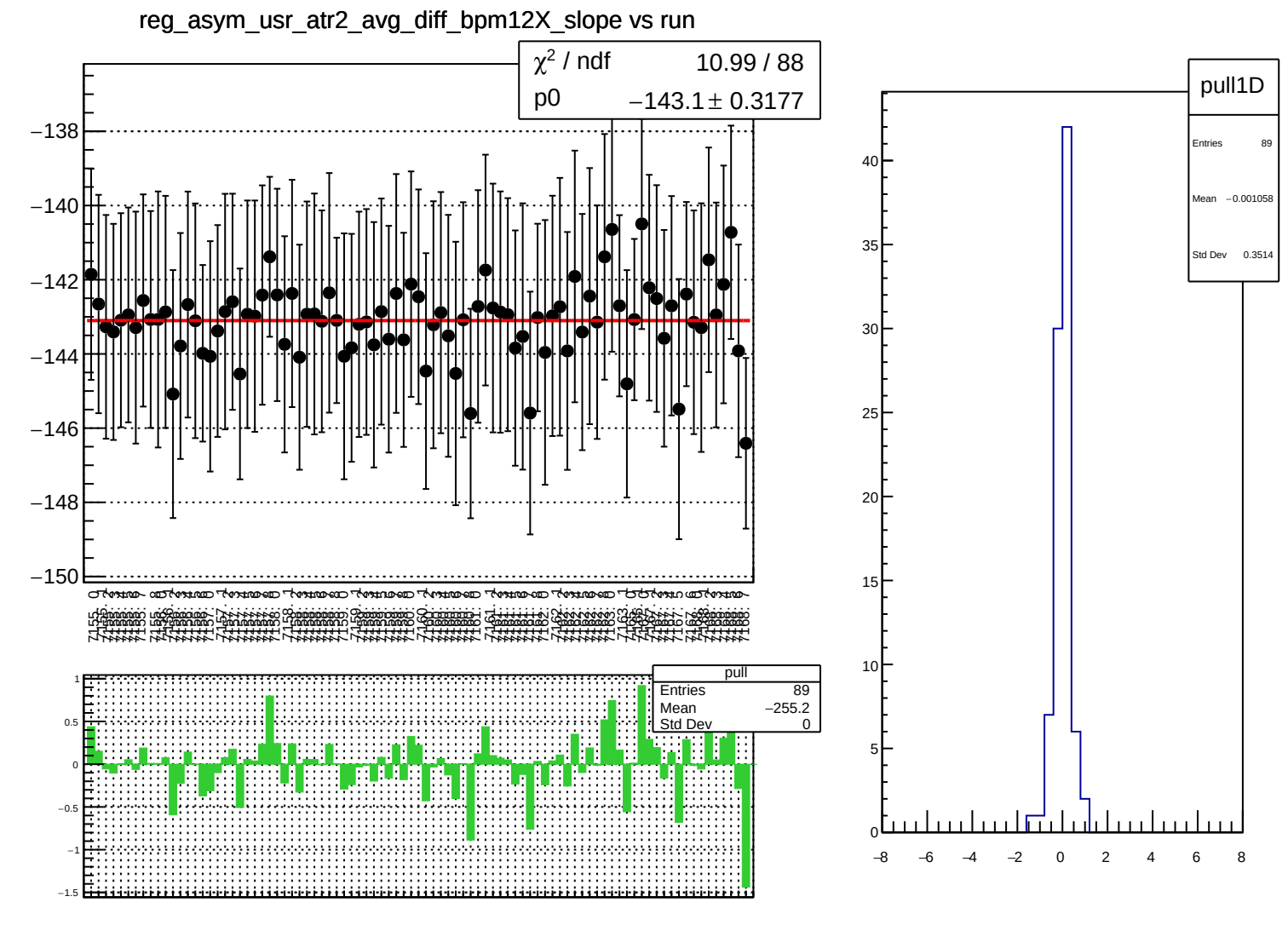

pull1D
Entries 89
Mean −0.05973
Std Dev 0.5955

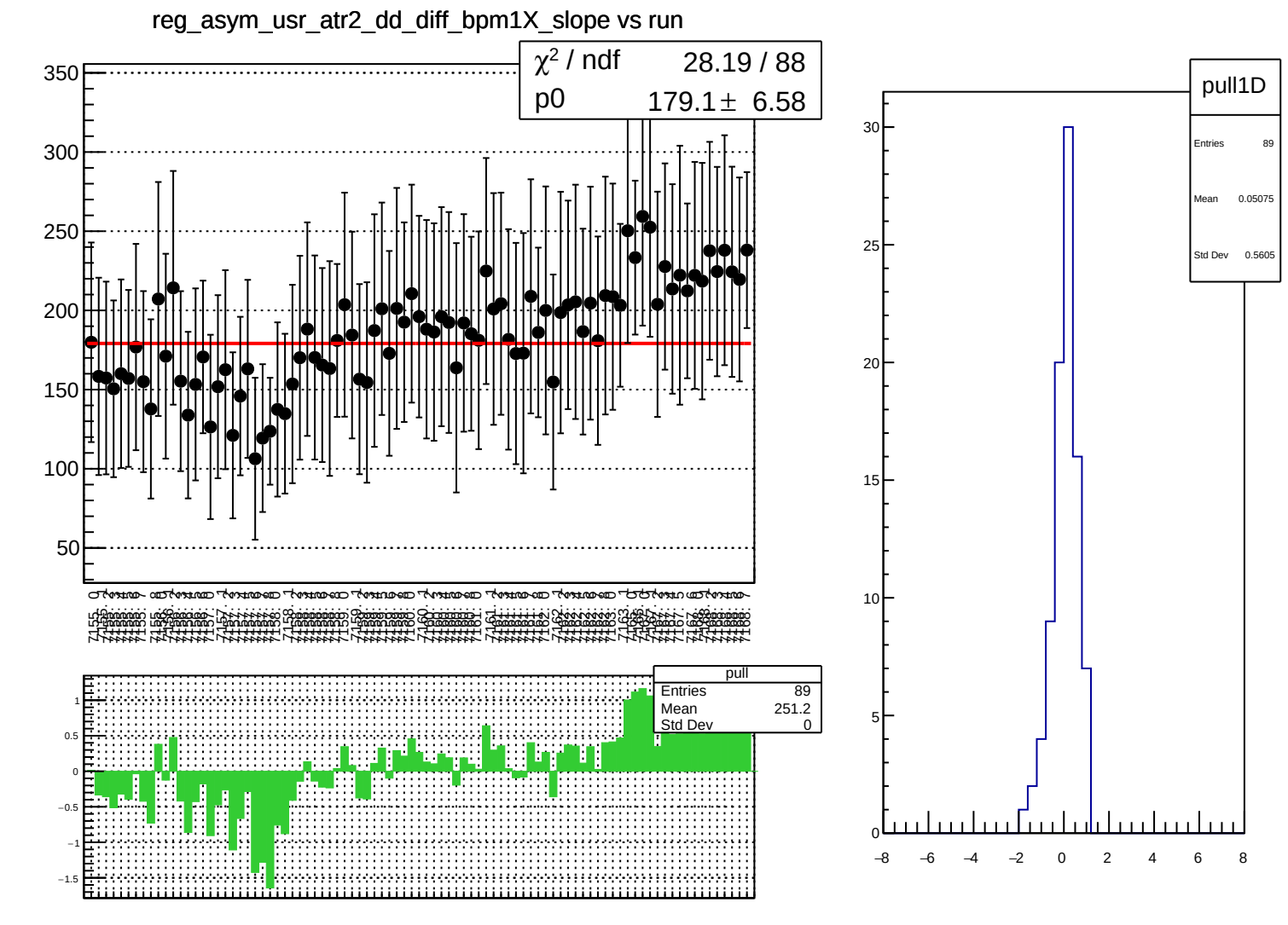

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.16 / 88
p0 −16.33 ± 7.206
pull
Entries 89
Mean 547.6
Std Dev 0

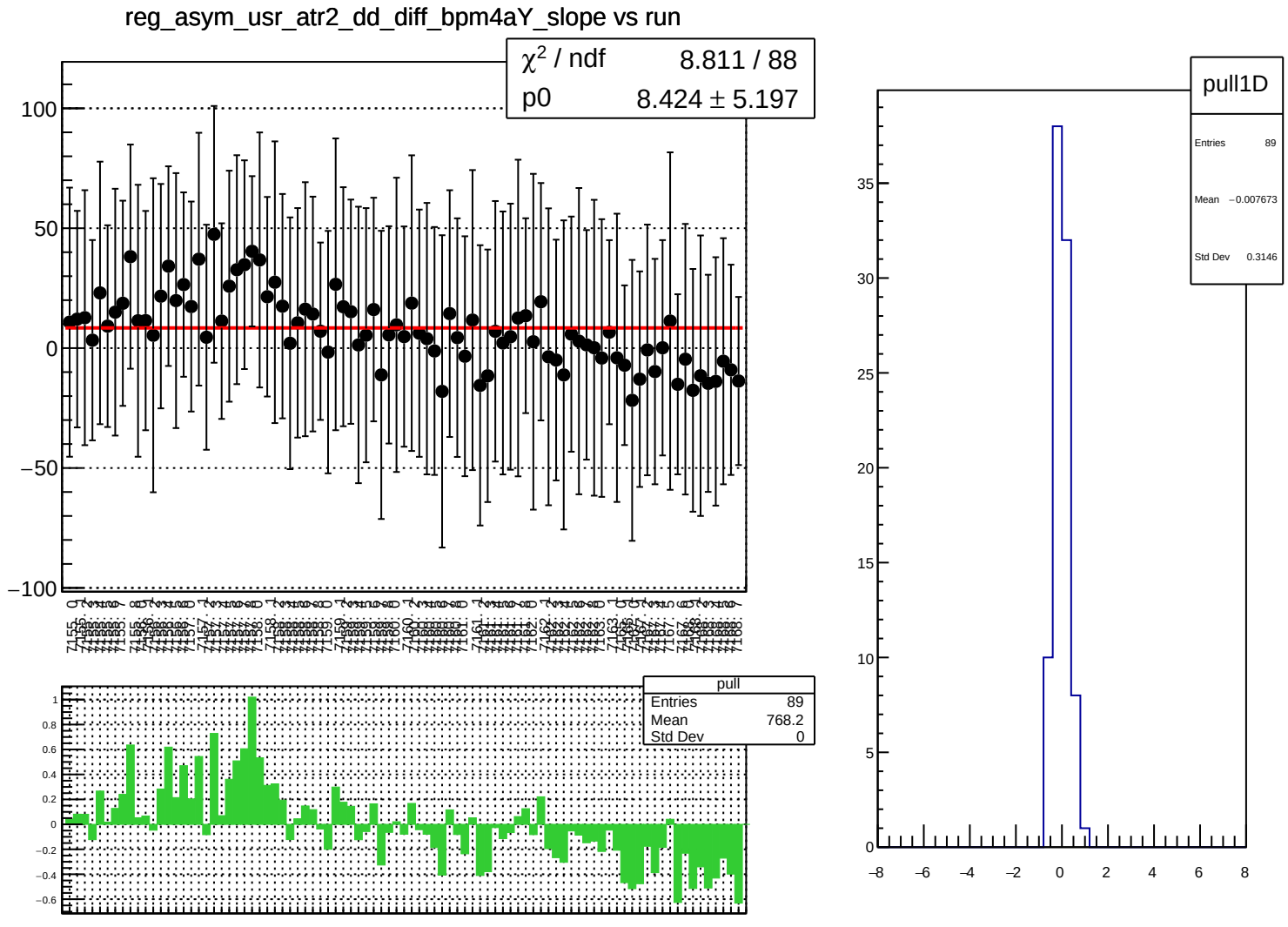

pull1D
Entries 89
Mean 0.01158
Std Dev 0.3376

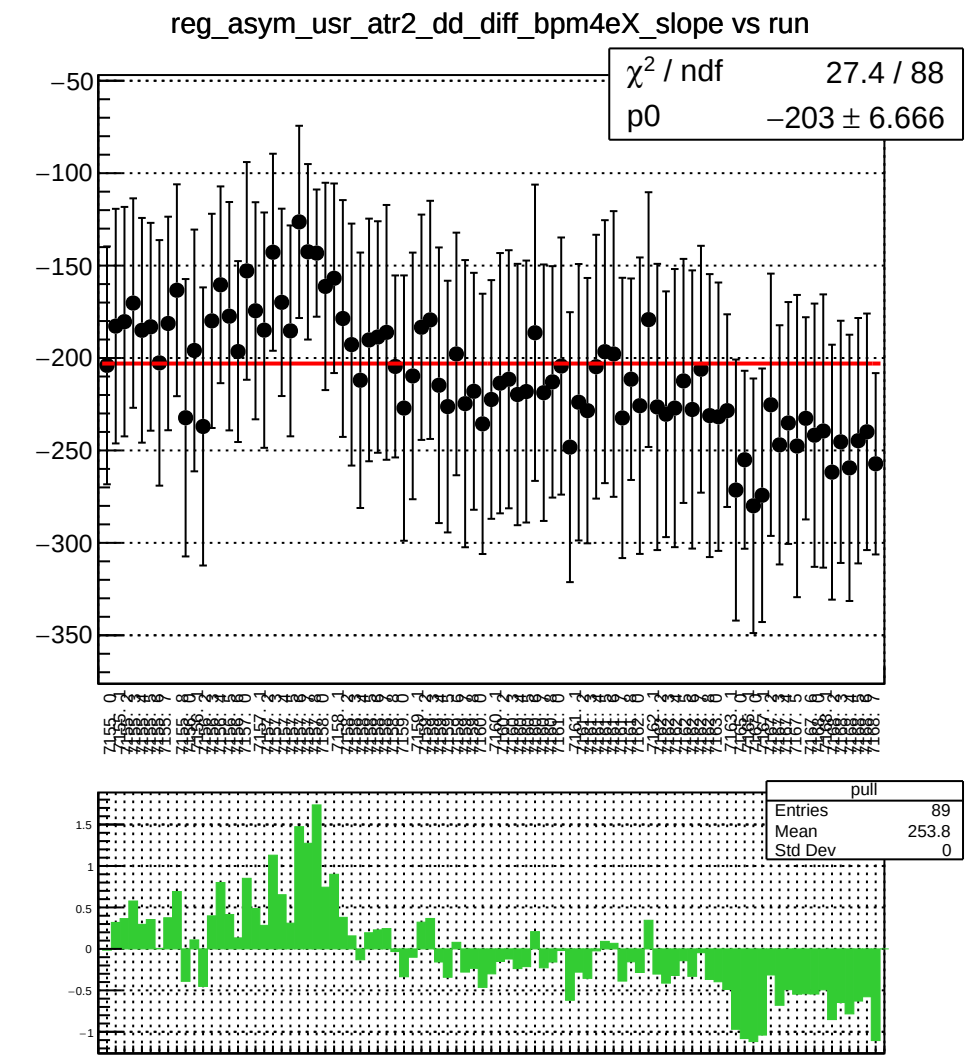

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 31.51 / 88
p0 321.3 ± 9.242
pull
Entries 89
Mean 228.1
Std Dev 0
pull1D
Entries 89
Mean 0.05786
Std Dev 0.5922

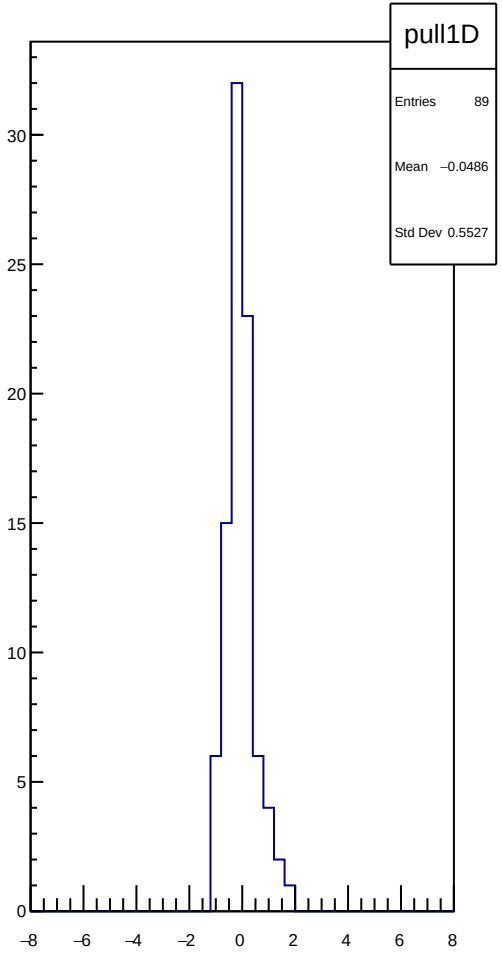

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.17 / 88
p0 100.8 ± 8.37
pull
Entries 89
Mean 381.8
Std Dev 0
pull1D
Entries 89
Mean −0.0203
Std Dev 0.3841

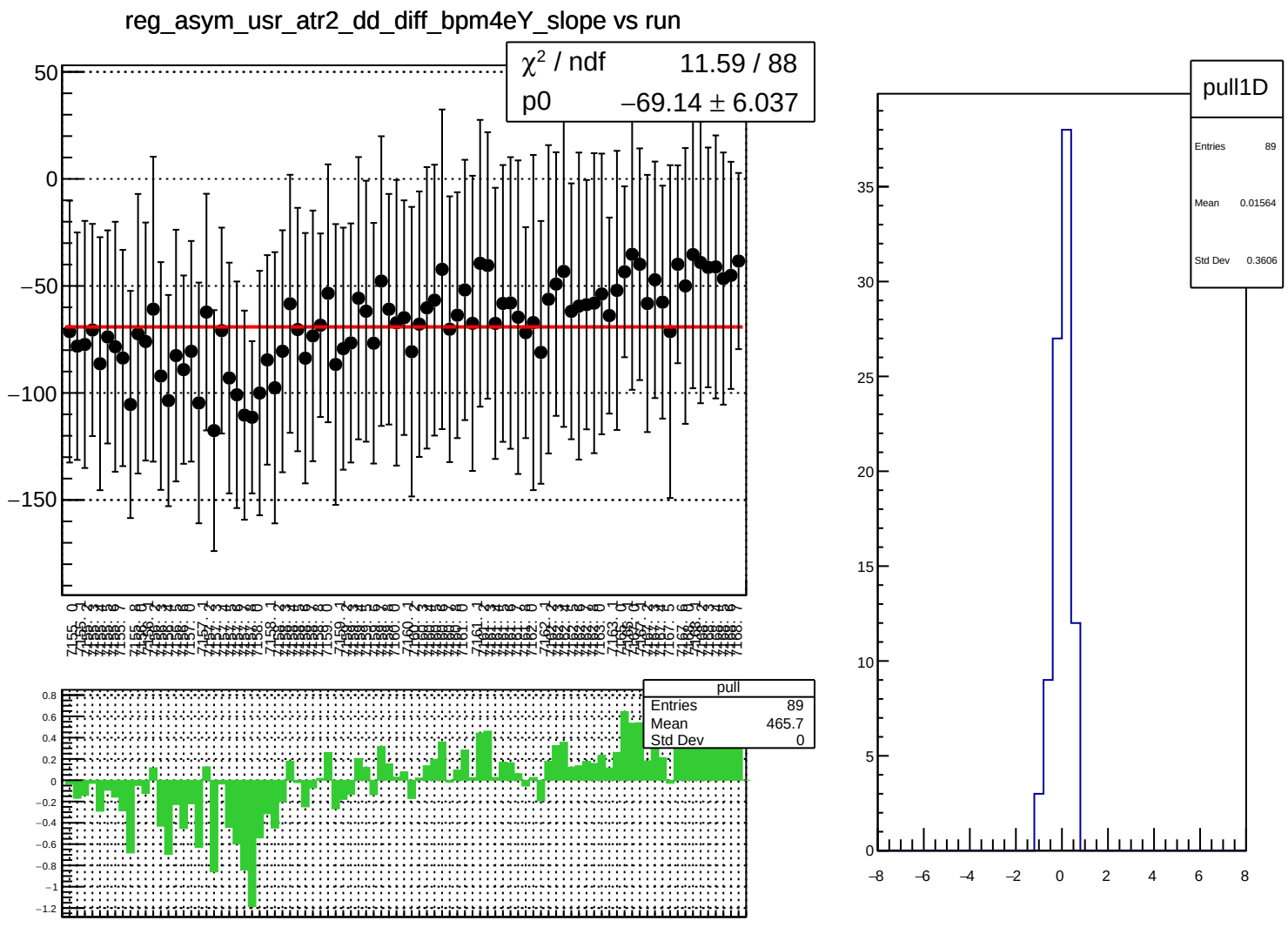

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 10.99 / 88
p0 −143.1 ± 0.3177
pull
Entries 89
Mean −255.2
Std Dev 0
pull1D
Entries 89
Mean −0.001058
Std Dev 0.3514

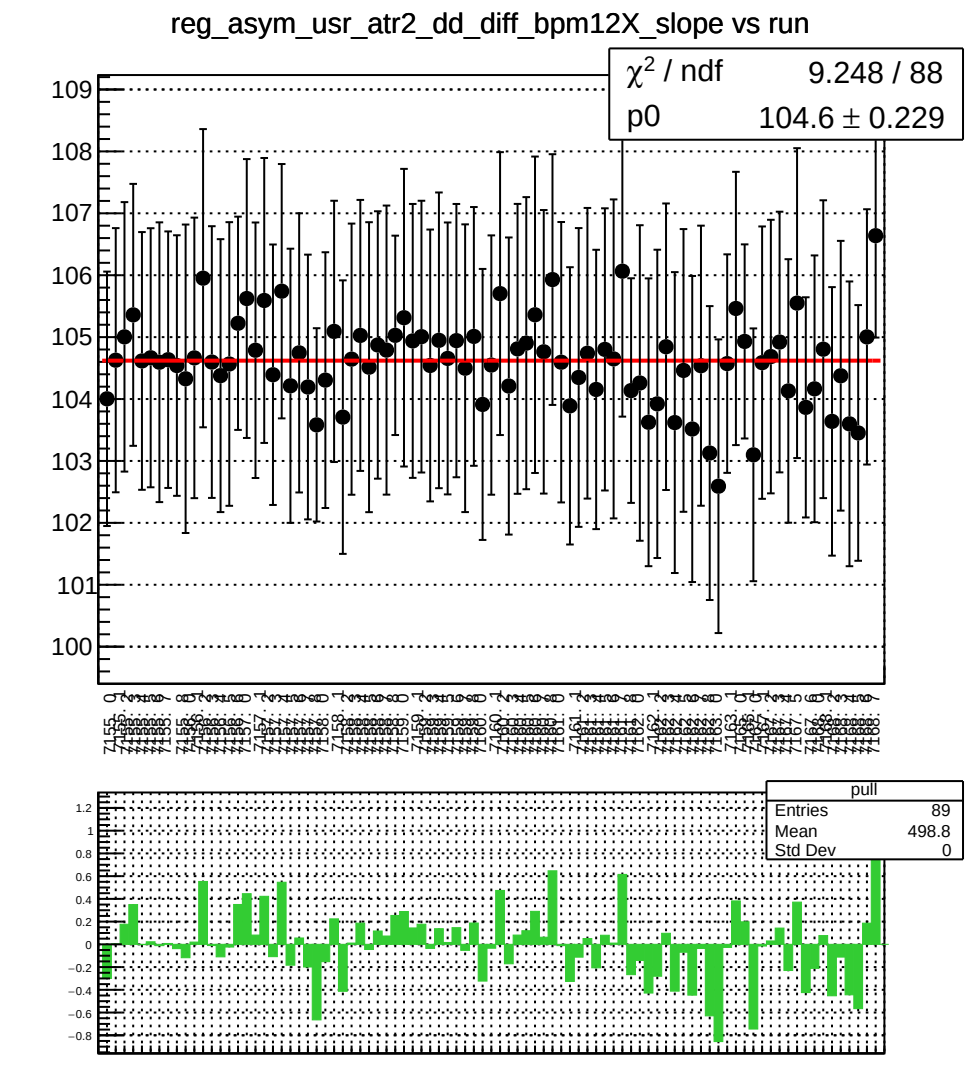

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 28.19 / 88
p0 179.1 ± 6.58
pull
Entries 89
Mean 251.2
Std Dev 0
pull1D
Entries 89
Mean 0.05075
Std Dev 0.5605

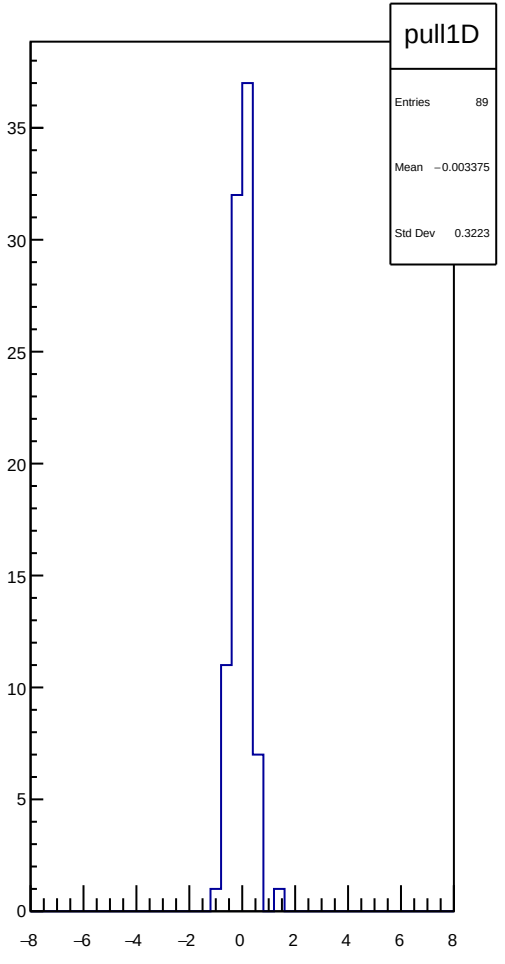

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.811 / 88
p0 8.424 ± 5.197
100
50
0
−50
−100
pull
Entries 89
Mean 768.2
Std Dev 0
pull1D
Entries 89
Mean −0.007673
Std Dev 0.3146
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

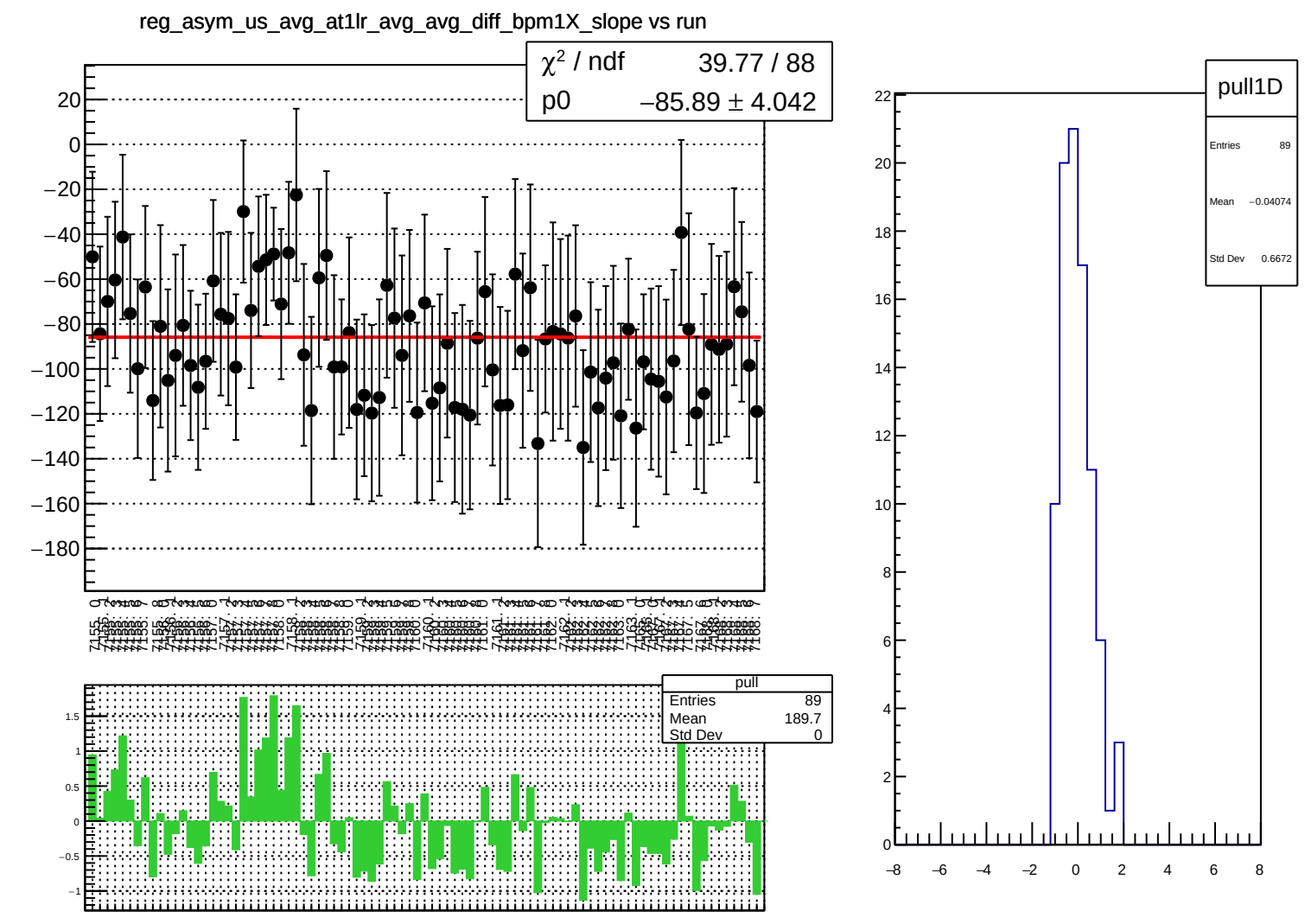

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.4 / 88
p0 −203 ± 6.666
pull
Entries 89
Mean 253.8
Std Dev 0

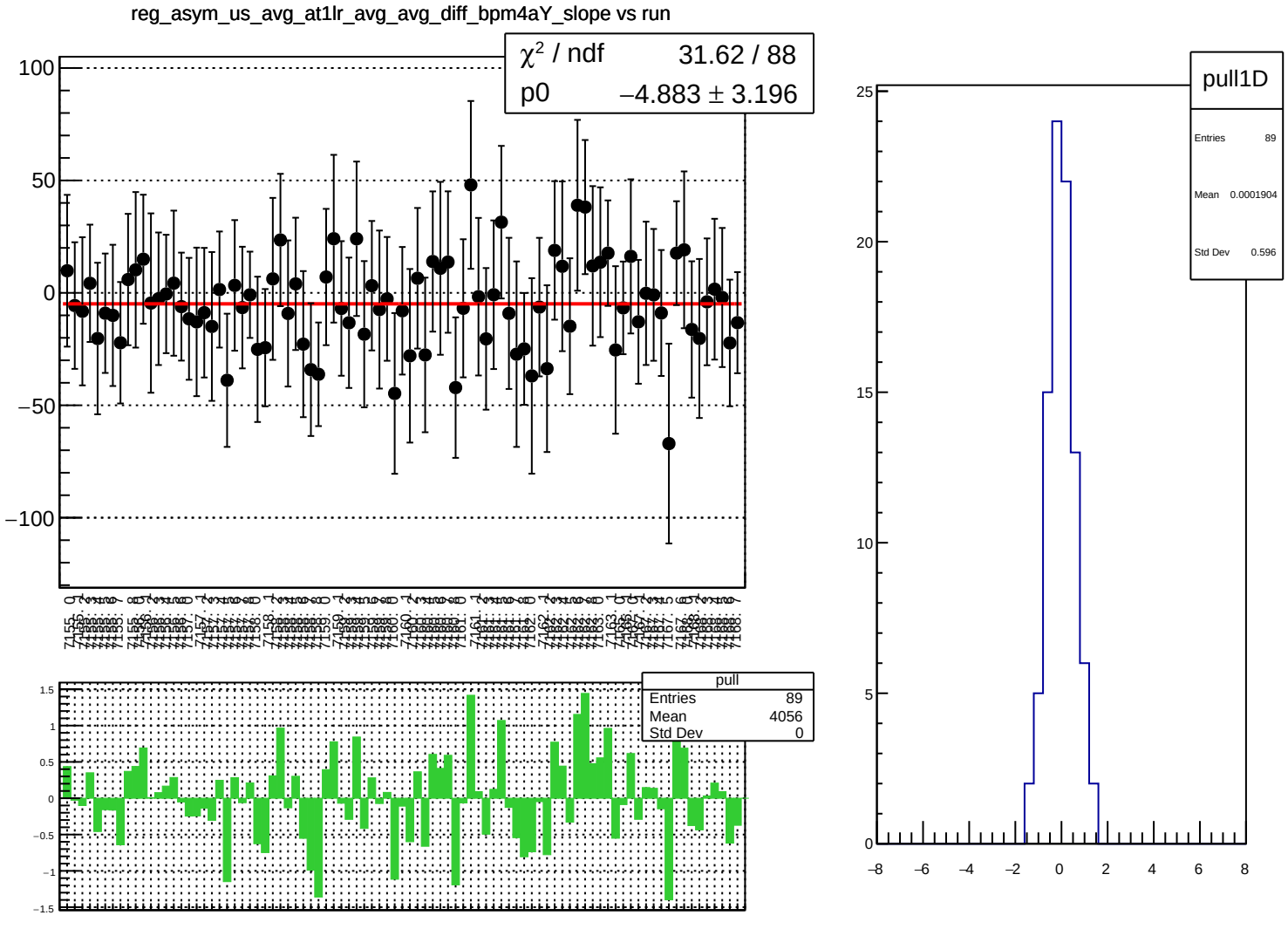

pull1D
Entries 89
Mean −0.0486
Std Dev 0.5527

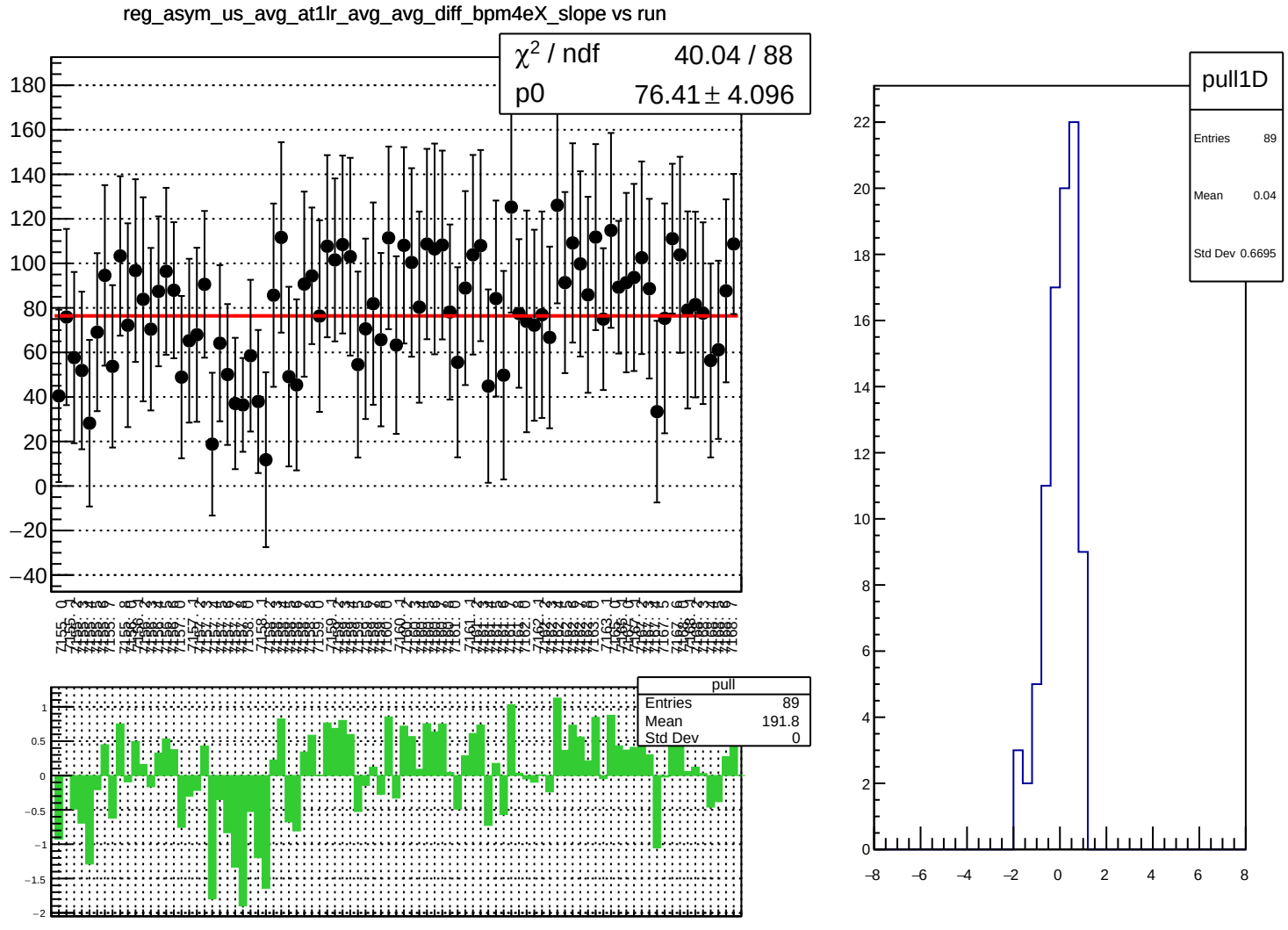

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 11.59 / 88
p0 −69.14 ± 6.037
50
0
−50
−100
−150
pull
Entries 89
Mean 465.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 89
Mean 0.01564
Std Dev 0.3606
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

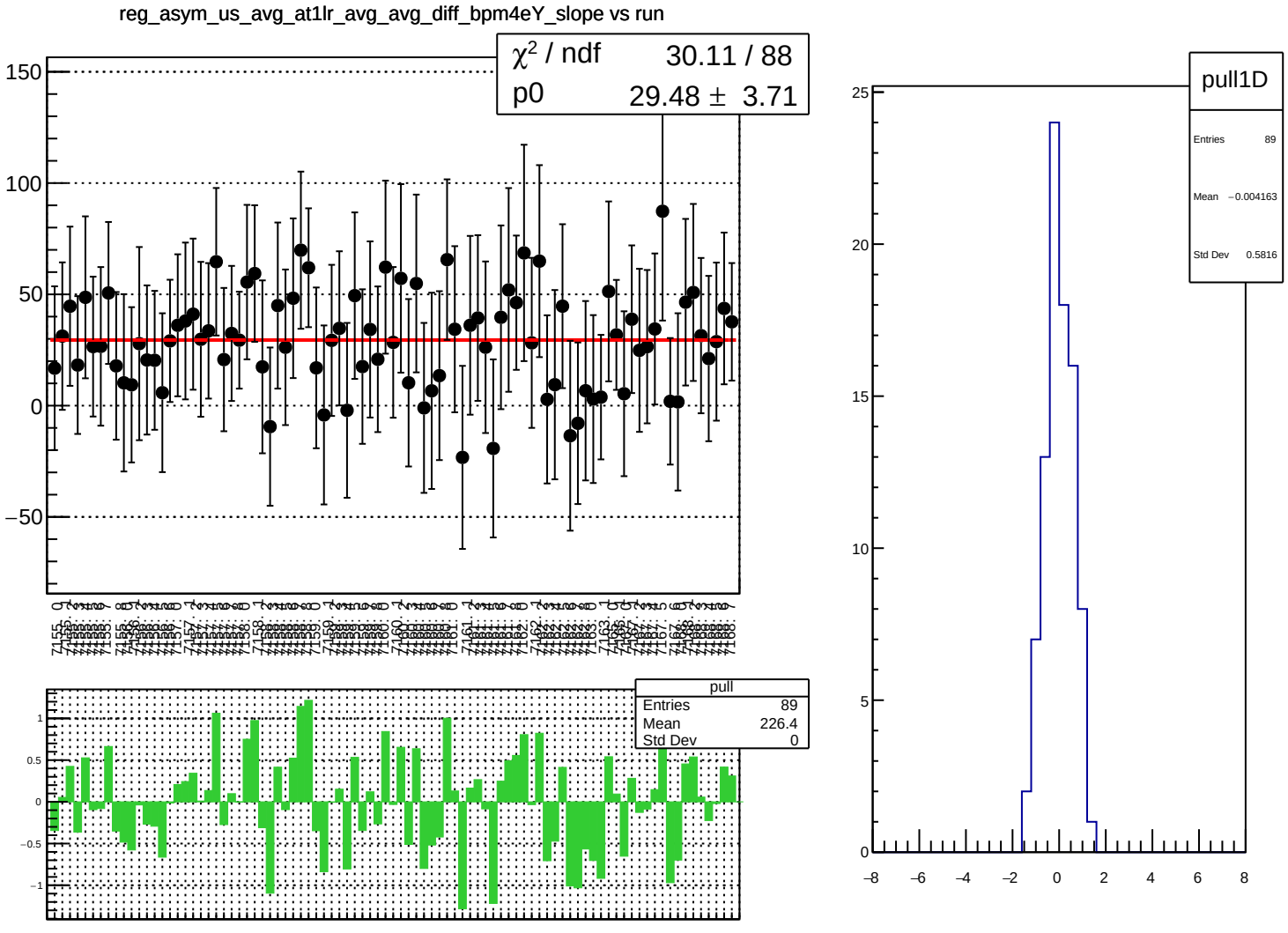

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.248 / 88
p0 104.6 ± 0.229
pull
Entries 89
Mean 498.8
Std Dev 0

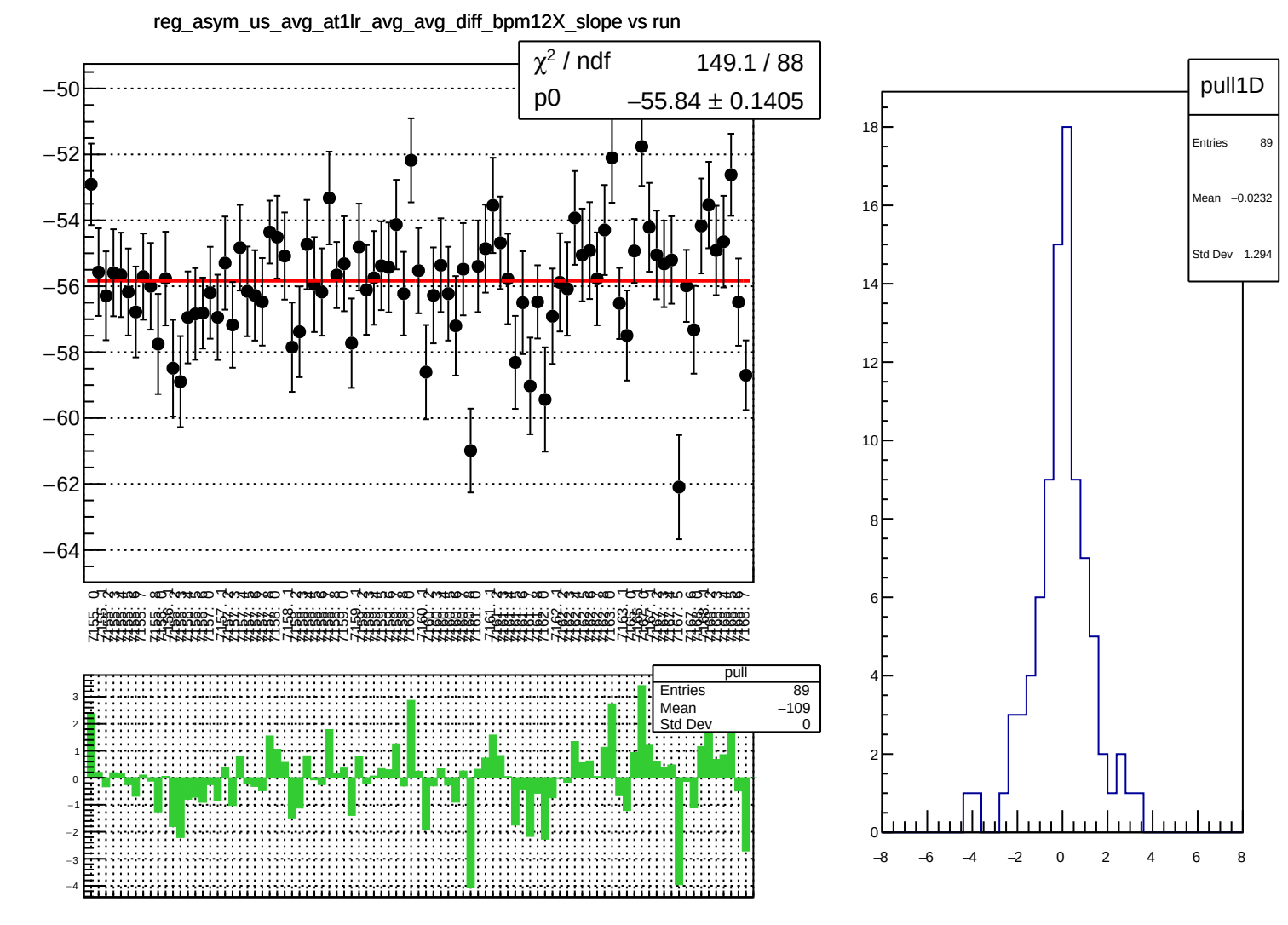

pull1D
Entries 89
Mean −0.003375
Std Dev 0.3223

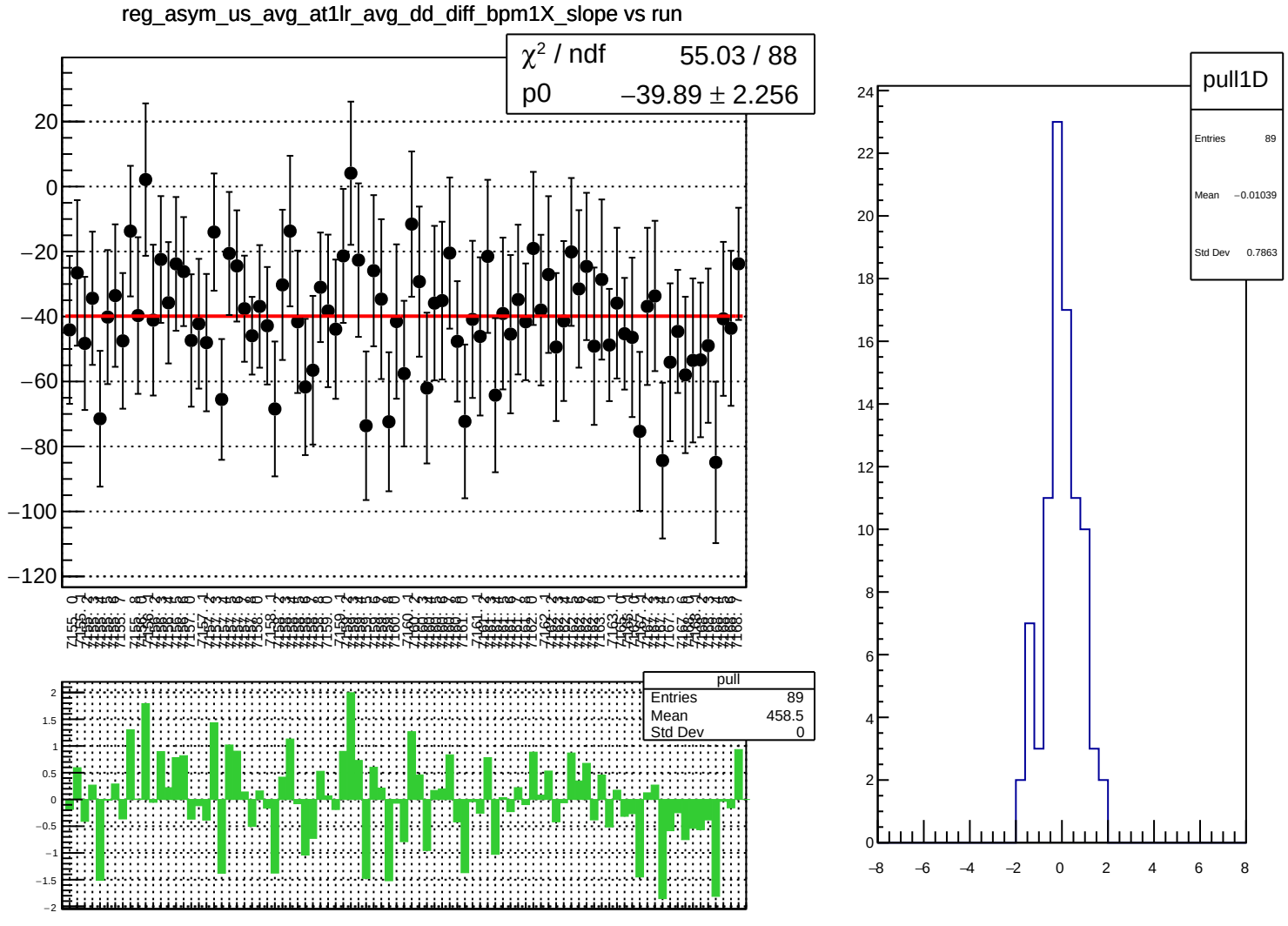

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 39.77 / 88
p0 −85.89 ± 4.042
pull
Entries 89
Mean 189.7
Std Dev 0
pull1D
Entries 89
Mean −0.04074
Std Dev 0.6672

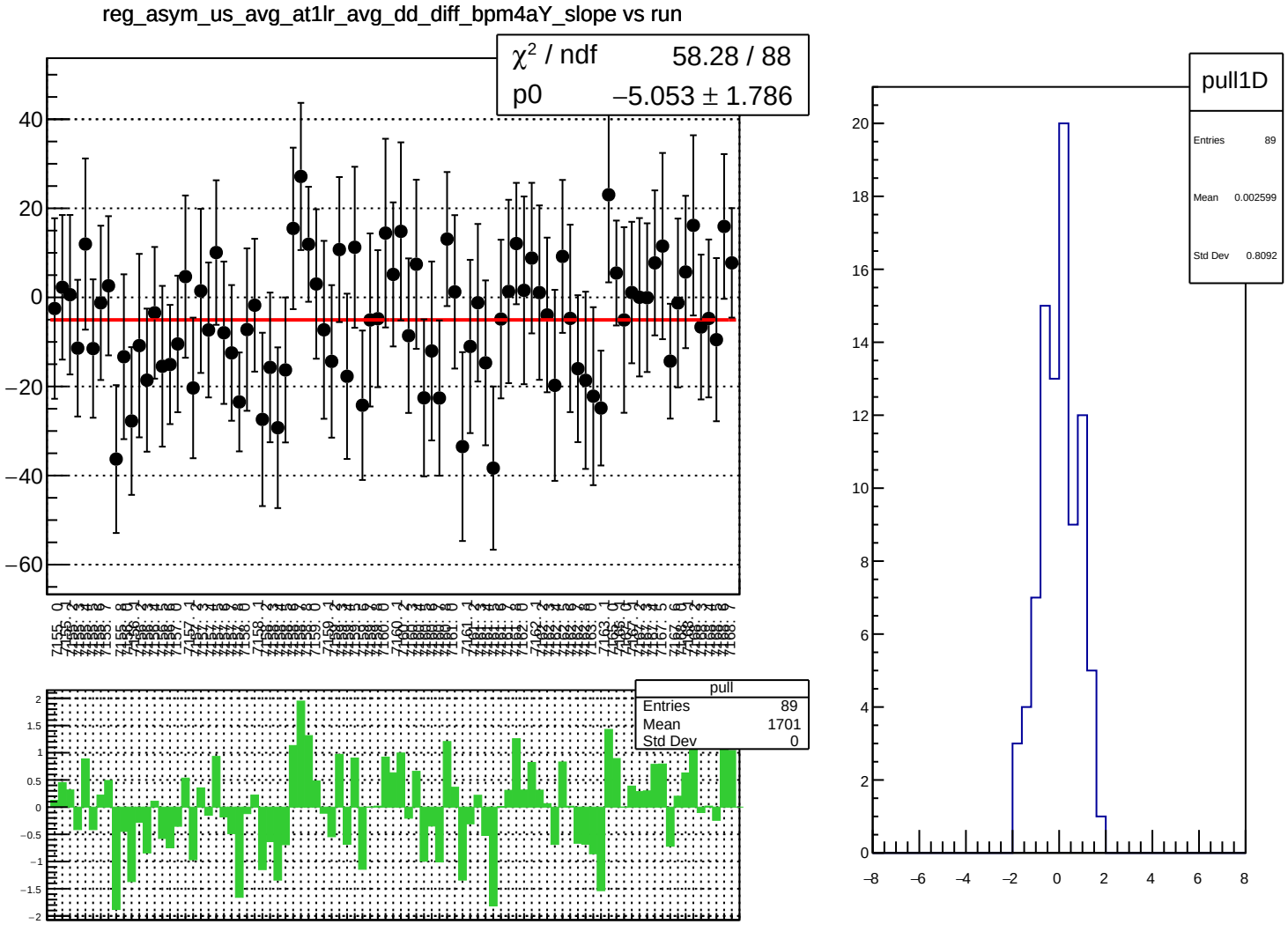

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.62 / 88
p0 −4.883 ± 3.196
pull
Entries 89
Mean 4056
Std Dev 0
pull1D
Entries 89
Mean 0.0001904
Std Dev 0.596

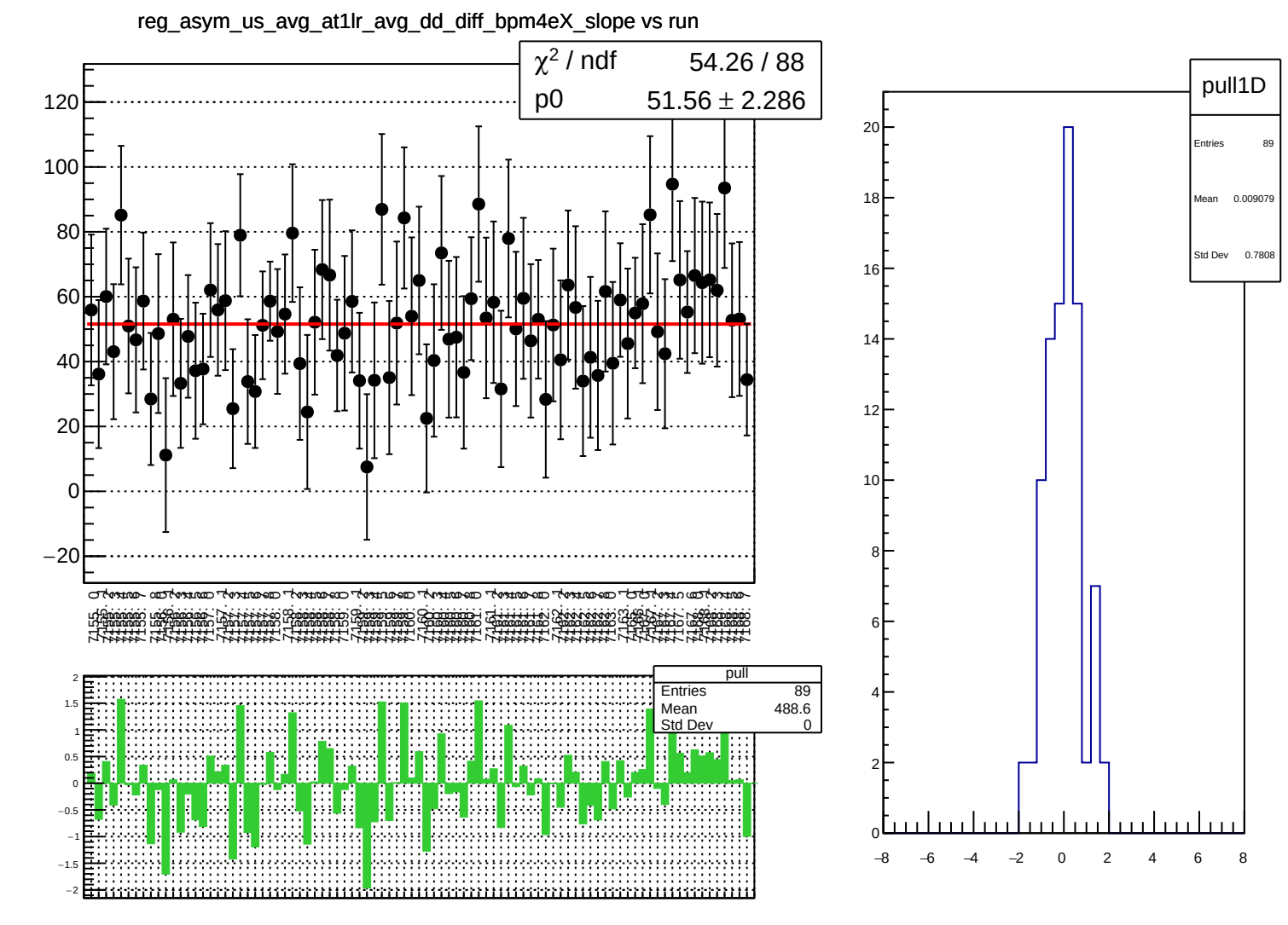

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 40.04 / 88
p0 76.41 ± 4.096
pull
Entries 89
Mean 191.8
Std Dev 0
pull1D
Entries 89
Mean 0.04
Std Dev 0.6695

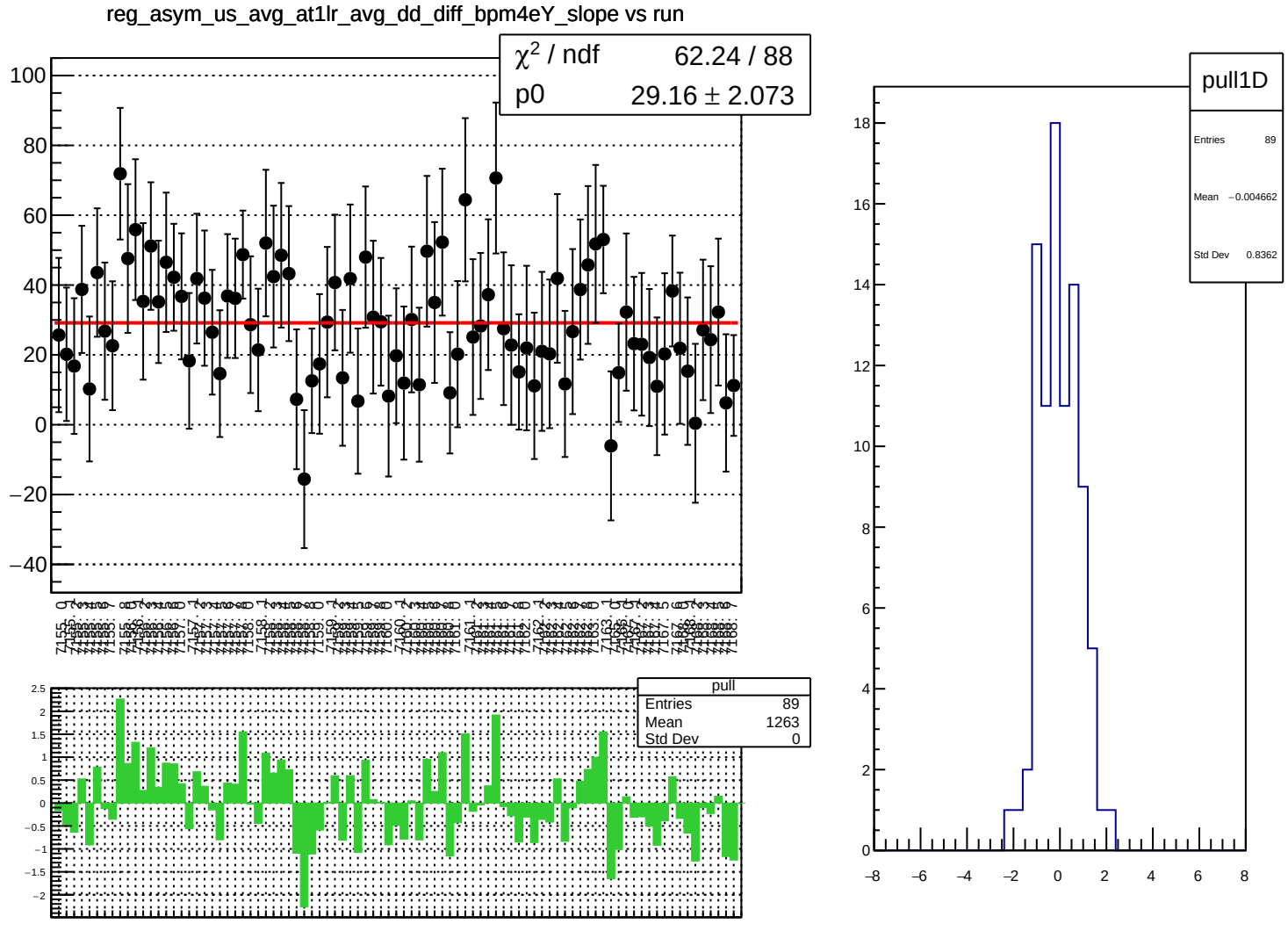

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.11 / 88
p0 29.48 ± 3.71
150
100
50
0
−50
pull
Entries 89
Mean 226.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.004163
Std Dev 0.5816
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

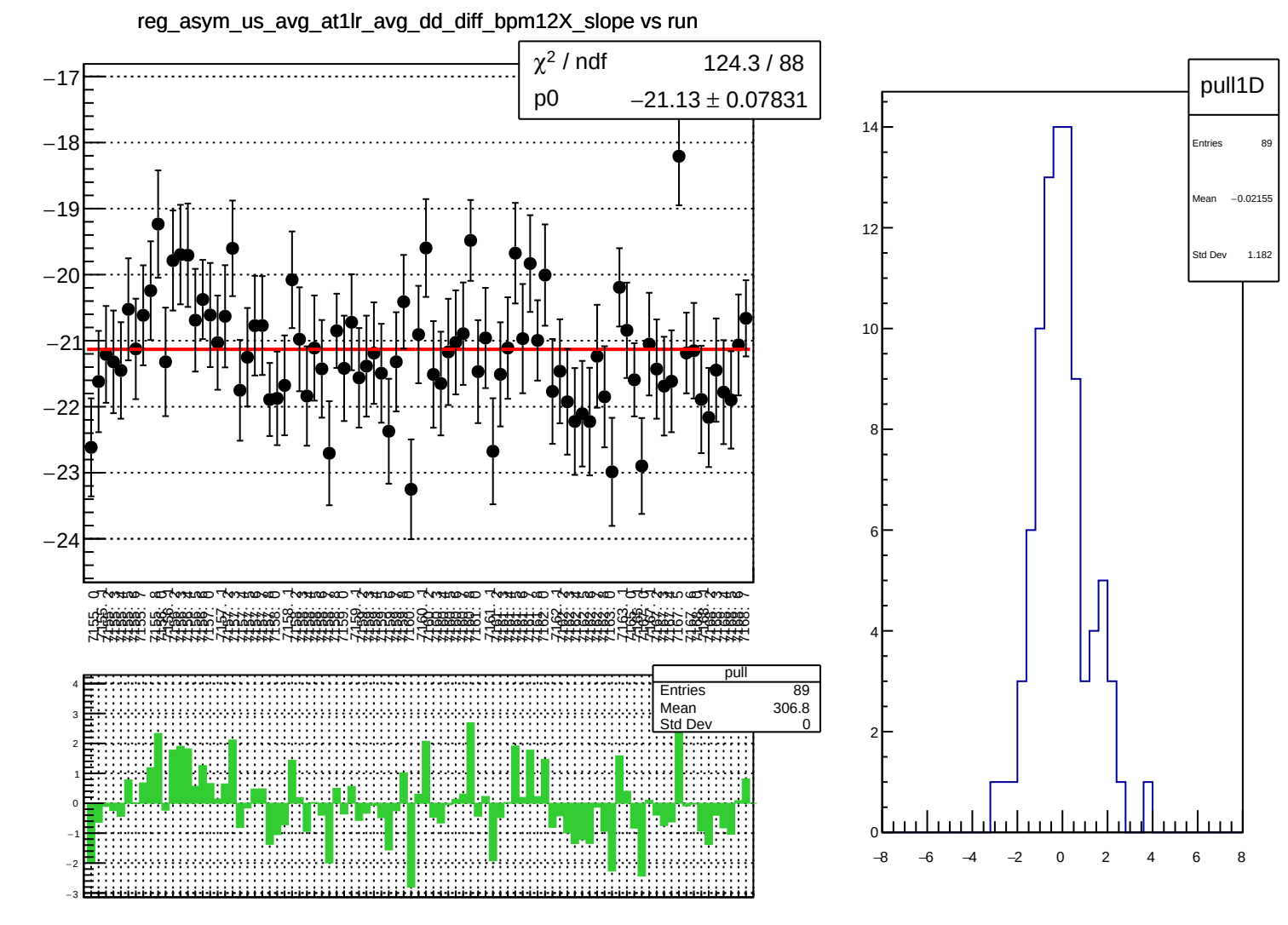

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 149.1 / 88
p0 −55.84 ± 0.1405
pull
Entries 89
Mean −109
Std Dev 0
pull1D
Entries 89
Mean −0.0232
Std Dev 1.294

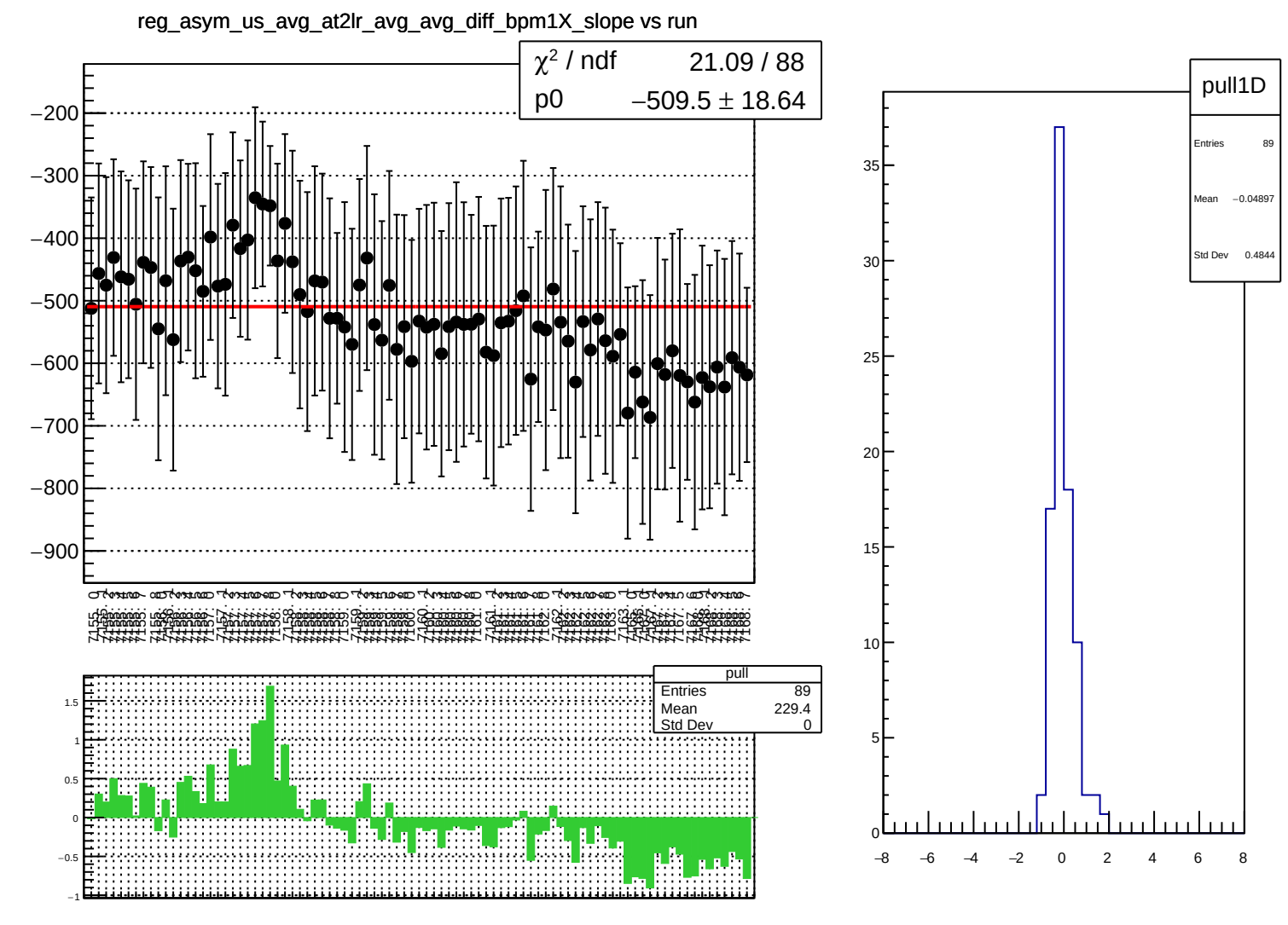

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 55.03 / 88
p0 −39.89 ± 2.256
pull
Entries 89
Mean 458.5
Std Dev 0
pull1D
Entries 89
Mean −0.01039
Std Dev 0.7863

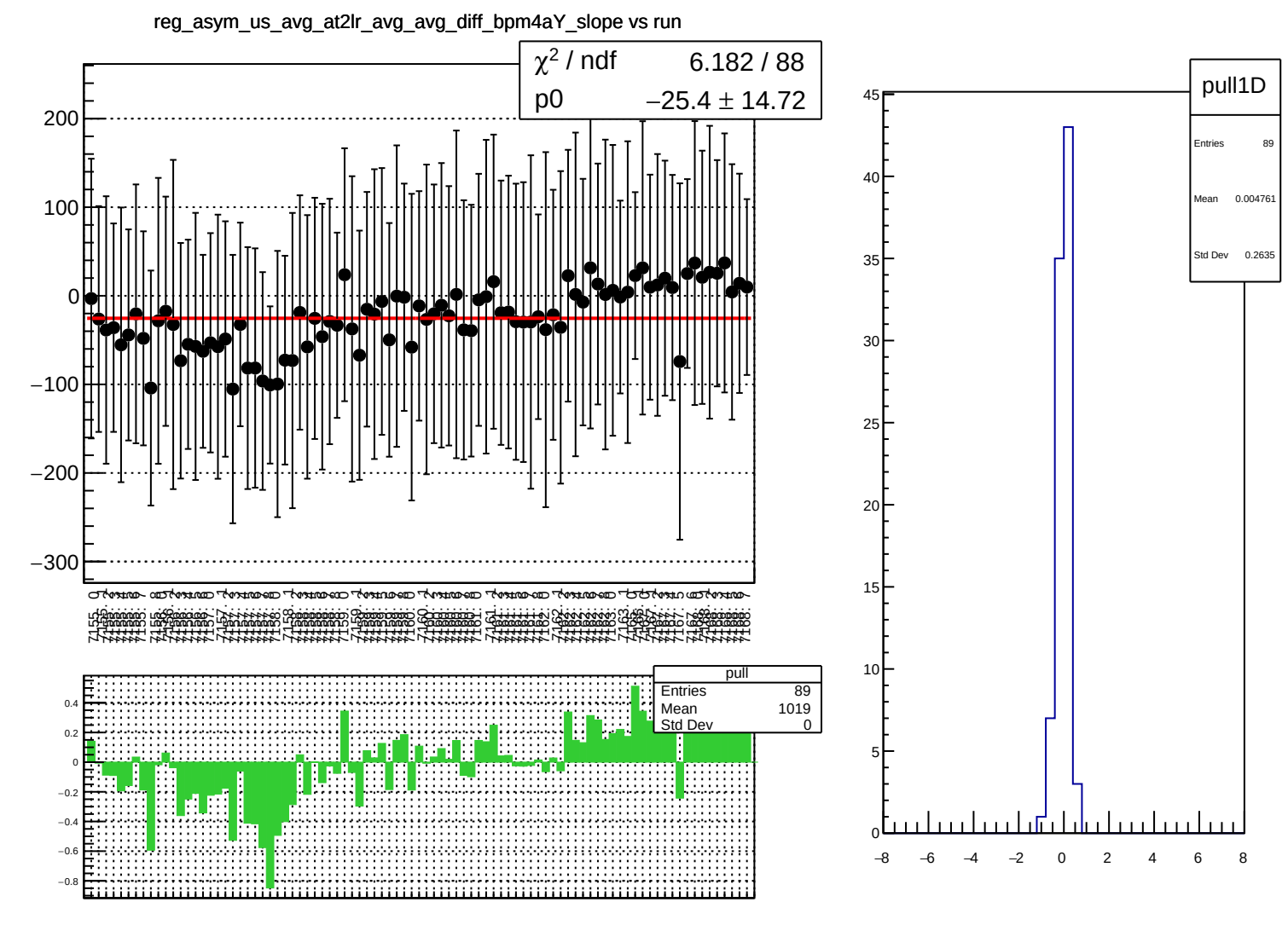

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 58.28 / 88
p0 −5.053 ± 1.786
pull
Entries 89
Mean 1701
Std Dev 0
pull1D
Entries 89
Mean 0.002599
Std Dev 0.8092

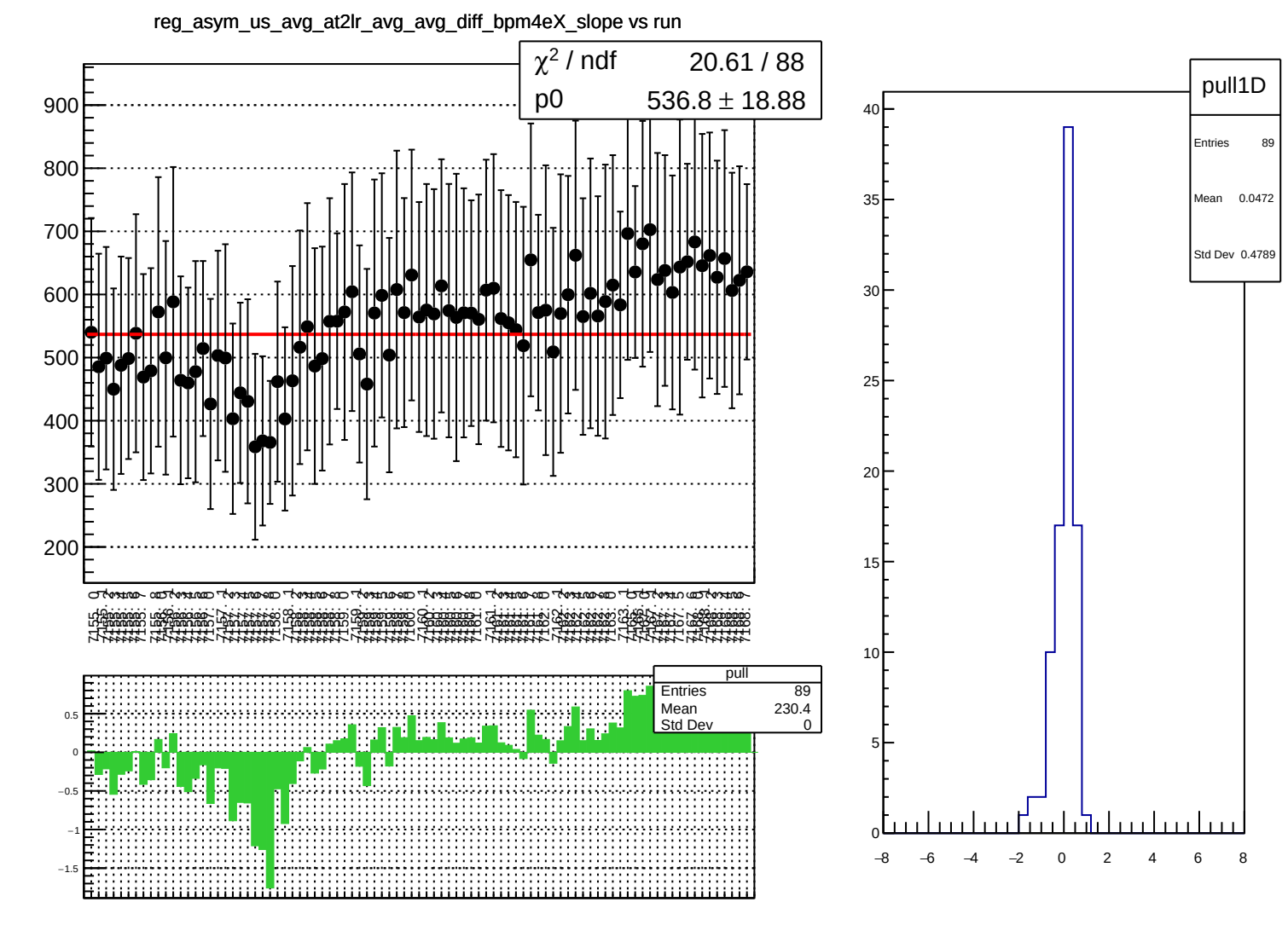

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 54.26 / 88
p0 51.56 ± 2.286
pull
Entries 89
Mean 488.6
Std Dev 0
pull1D
Entries 89
Mean 0.009079
Std Dev 0.7808

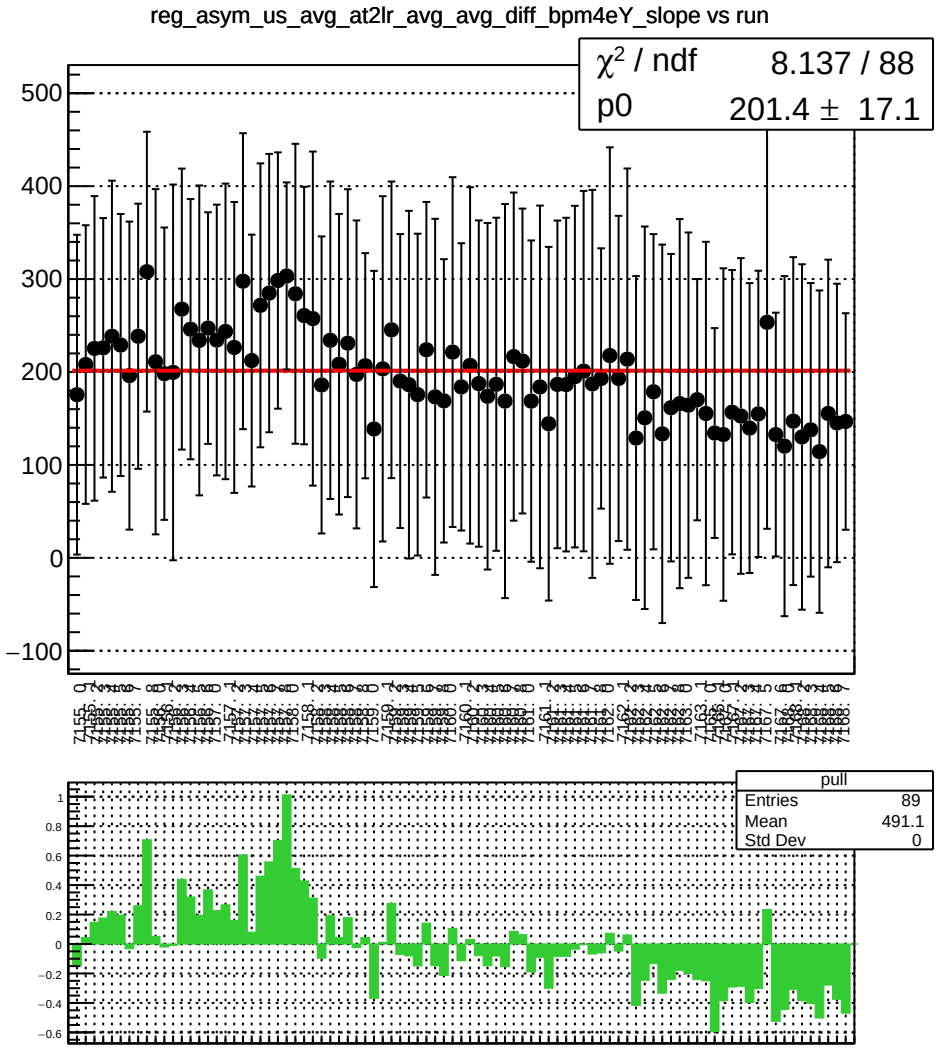

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 62.24 / 88
p0 29.16 ± 2.073
pull
Entries 89
Mean 1263
Std Dev 0
pull1D
Entries 89
Mean −0.004662
Std Dev 0.8362

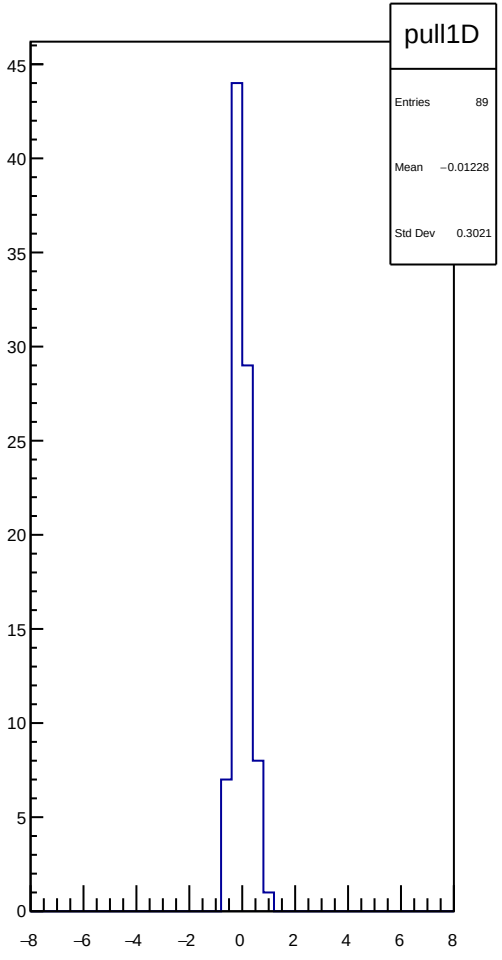

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 124.3 / 88
p0 −21.13 ± 0.07831
pull
Entries 89
Mean 306.8
Std Dev 0
pull1D
Entries 89
Mean −0.02155
Std Dev 1.182

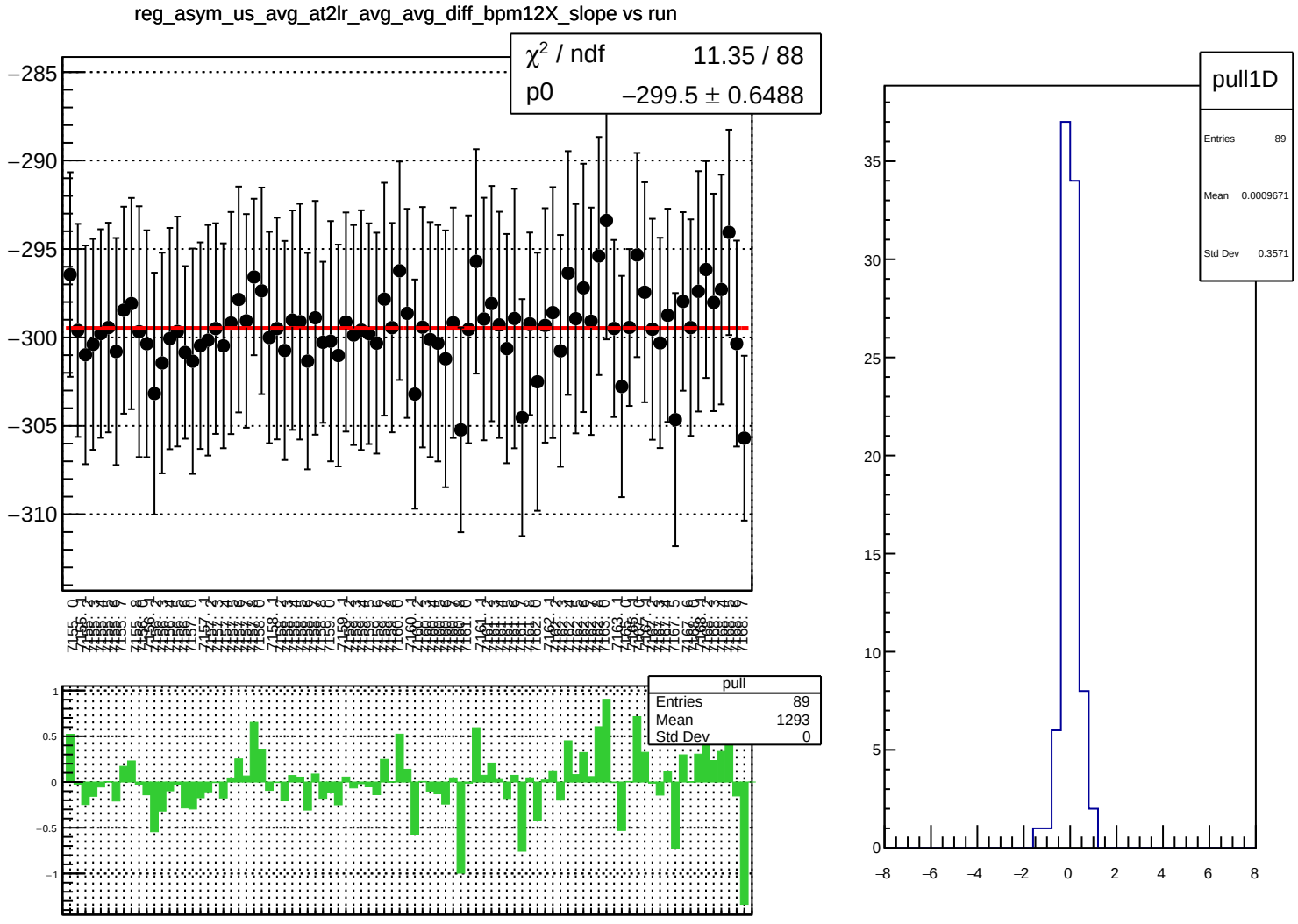

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 21.09 / 88
p0 −509.5 ± 18.64
−200
−300
−400
−500
−600
−700
−800
−900
pull
Entries 89
Mean 229.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.04897
Std Dev 0.4844
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

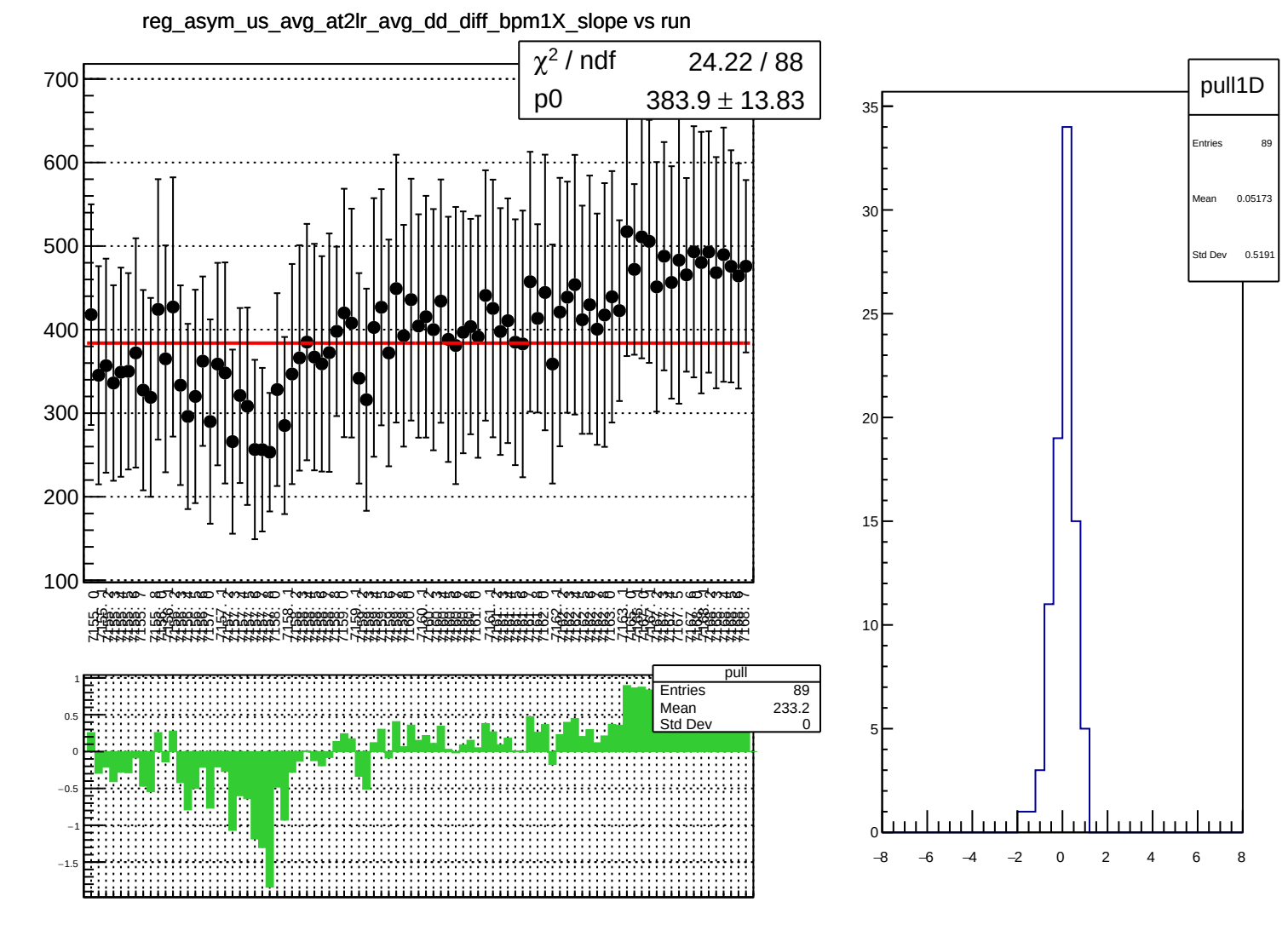

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.182 / 88
p0 −25.4 ± 14.72
200
100
0
−100
−200
−300
pull
Entries 89
Mean 1019
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 89
Mean 0.004761
Std Dev 0.2635
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

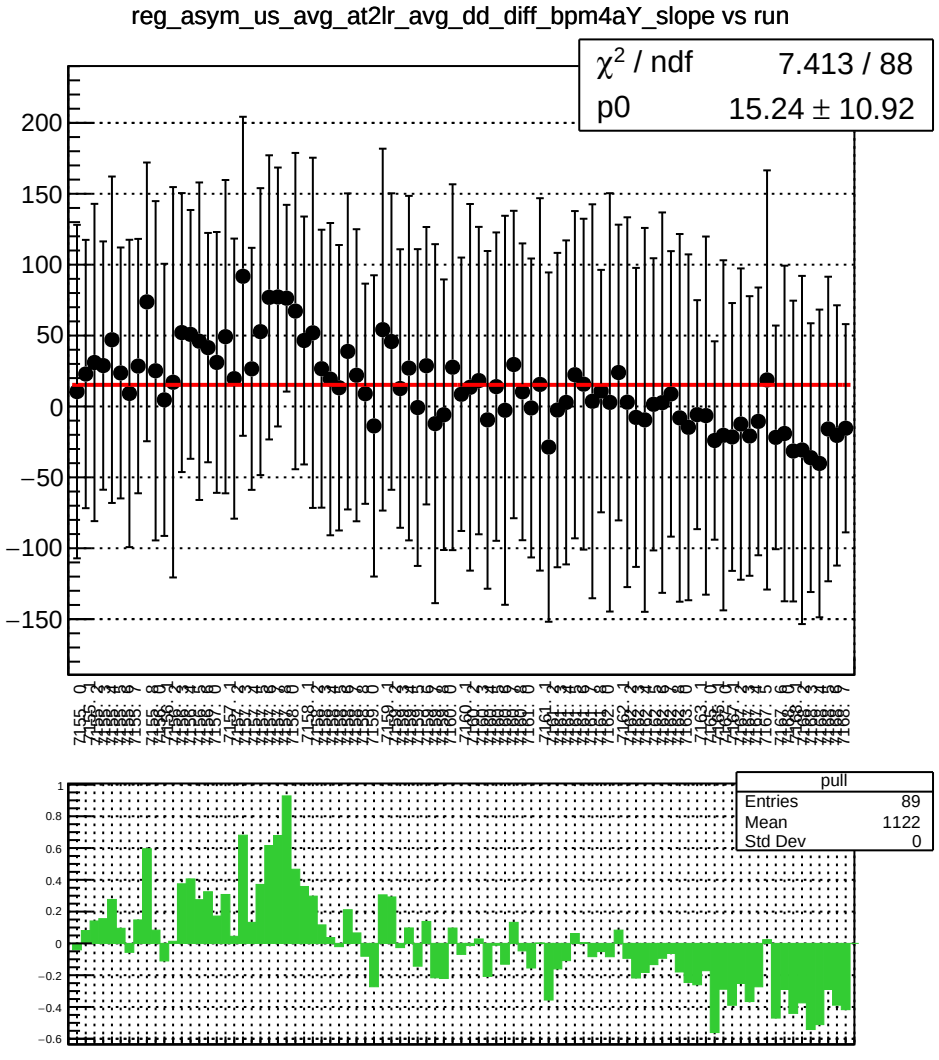

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 20.61 / 88
p0 536.8 ± 18.88
pull
Entries 89
Mean 230.4
Std Dev 0
pull1D
Entries 89
Mean 0.0472
Std Dev 0.4789

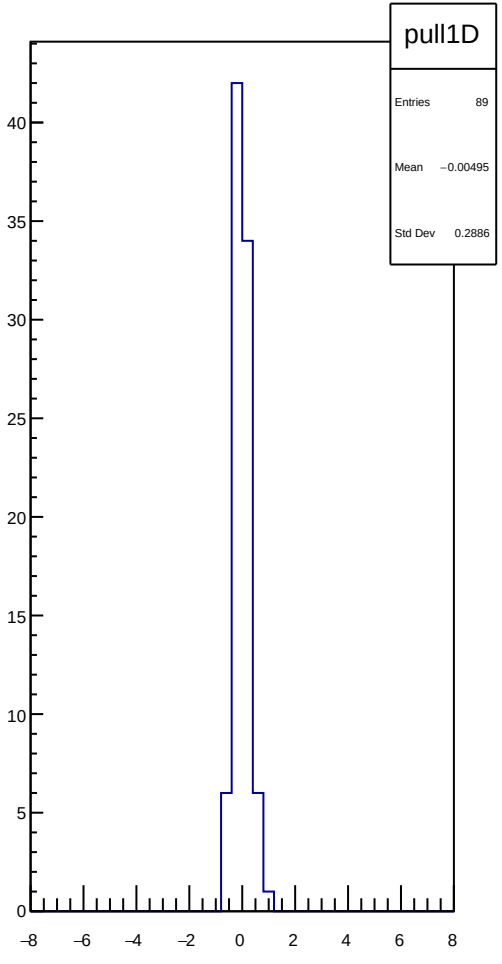

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.137 / 88
p0 201.4 ± 17.1
pull
Entries 89
Mean 491.1
Std Dev 0

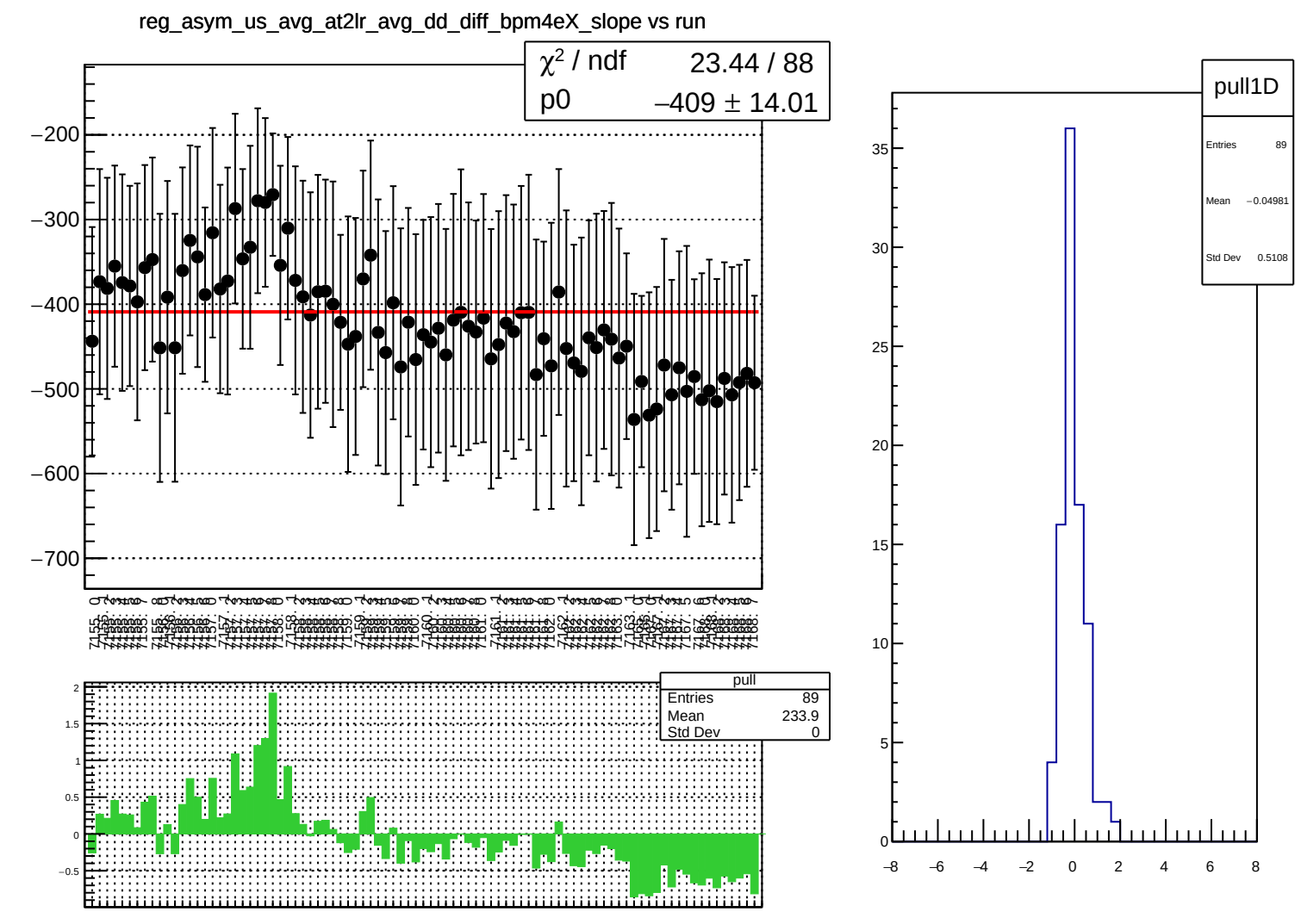

pull1D
Entries 89
Mean −0.01228
Std Dev 0.3021

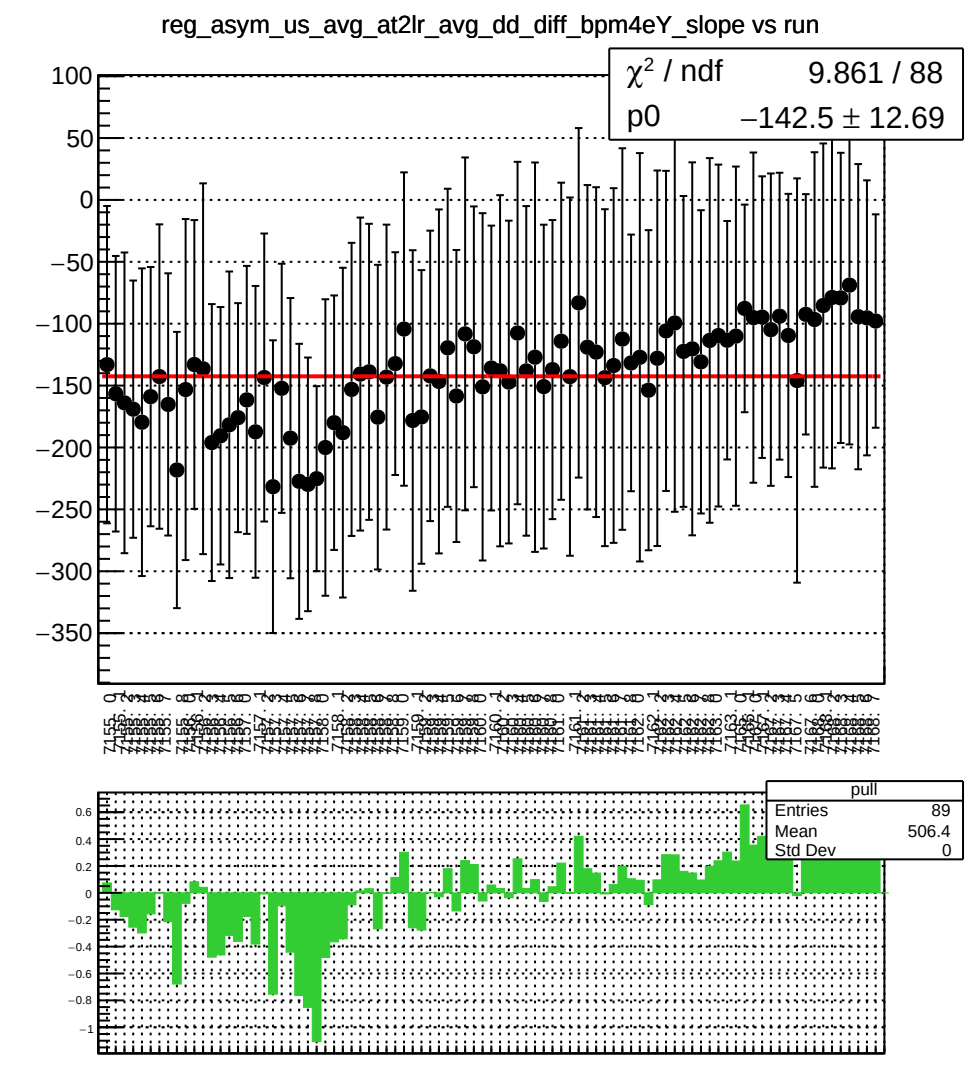

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 11.35 / 88
p0 −299.5 ± 0.6488
−285
−290
−295
−300
−305
−310
pull
Entries 89
Mean 1293
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean 0.0009671
Std Dev 0.3571
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

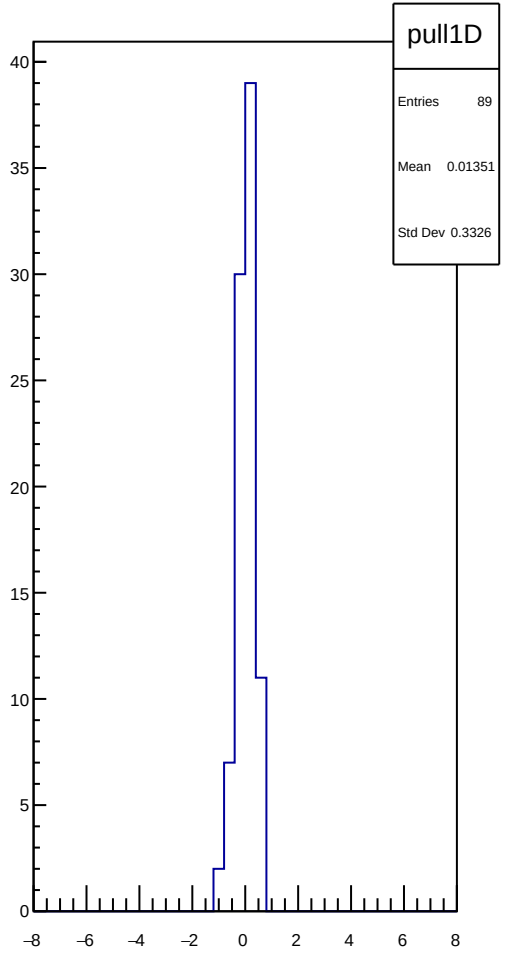

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 24.22 / 88
p0 383.9 ± 13.83
pull
Entries 89
Mean 233.2
Std Dev 0
pull1D
Entries 89
Mean 0.05173
Std Dev 0.5191

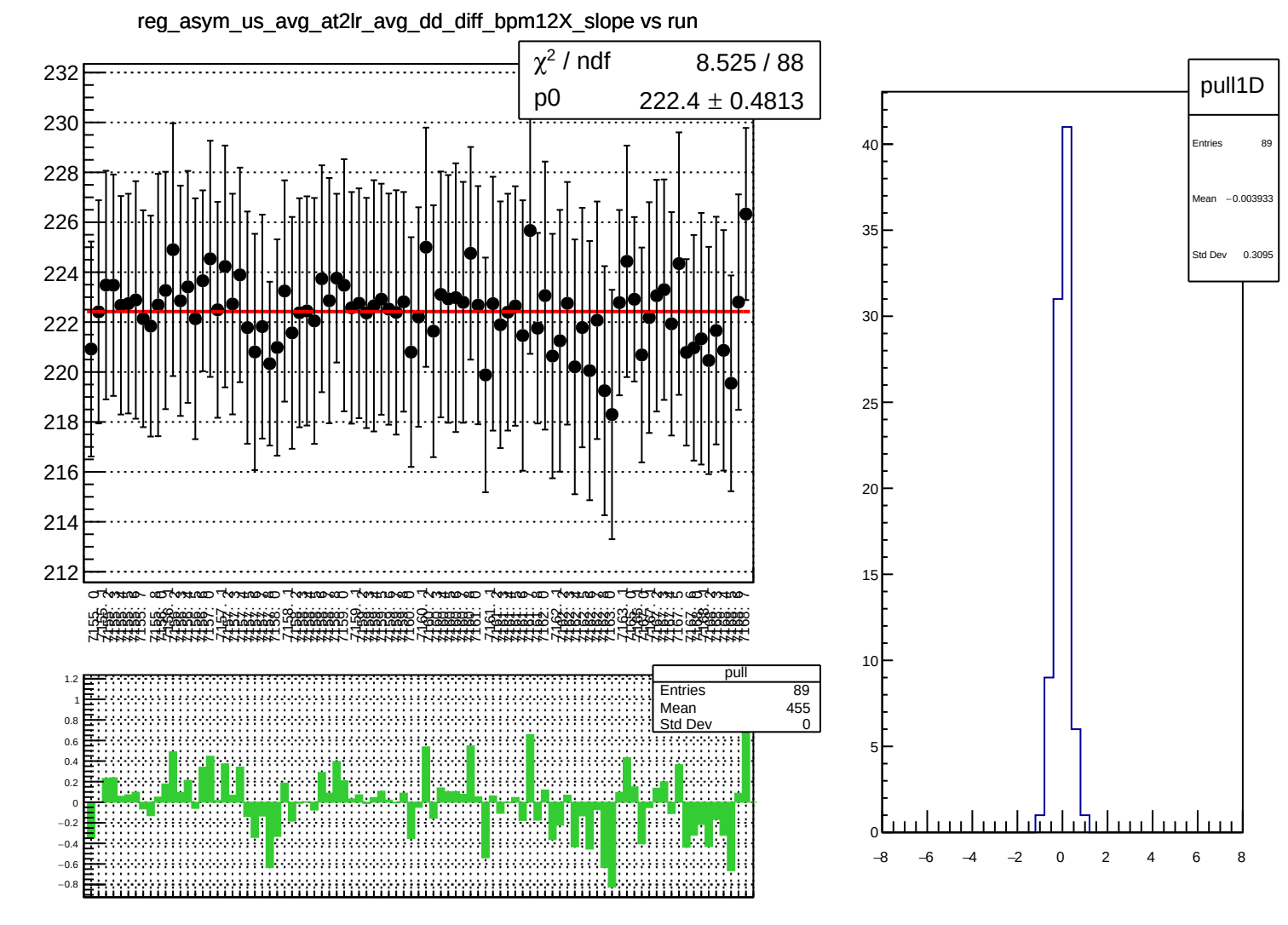

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.413 / 88
p0 15.24 ± 10.92
pull
Entries 89
Mean 1122
Std Dev 0

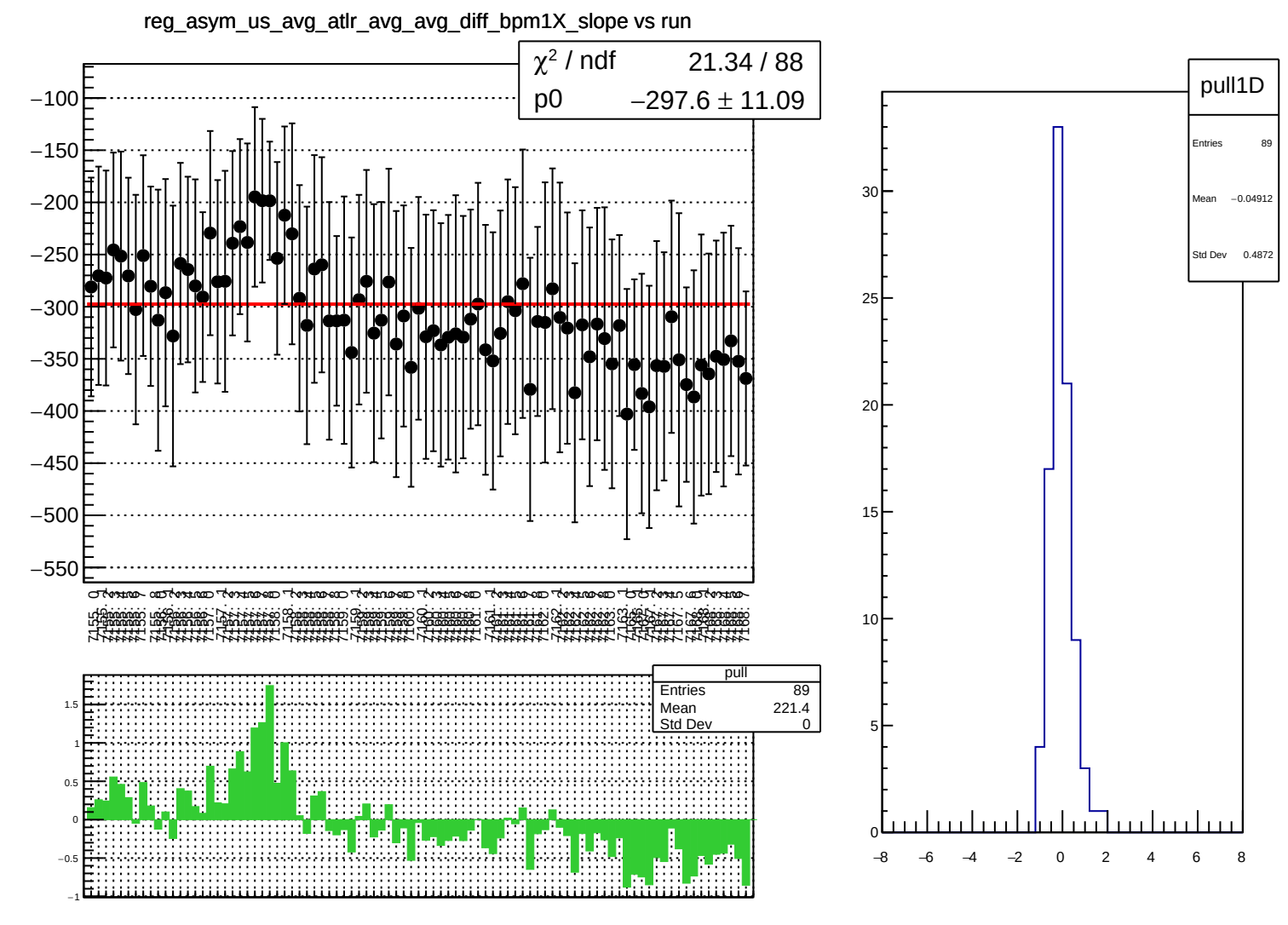

pull1D
Entries 89
Mean −0.00495
Std Dev 0.2886

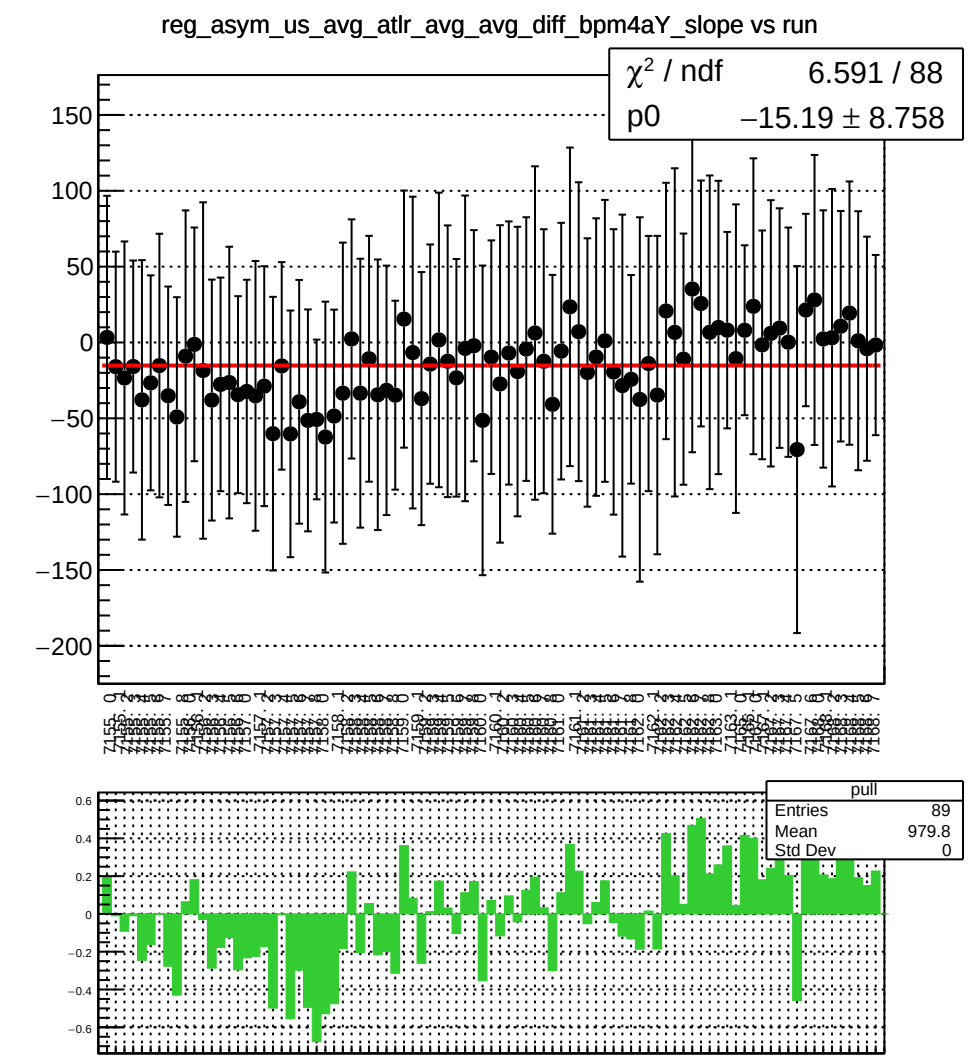

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.44 / 88
p0 −409 ± 14.01
−200
−300
−400
−500
−600
−700
pull
Entries 89
Mean 233.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
pull1D
Entries 89
Mean −0.04981
Std Dev 0.5108
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

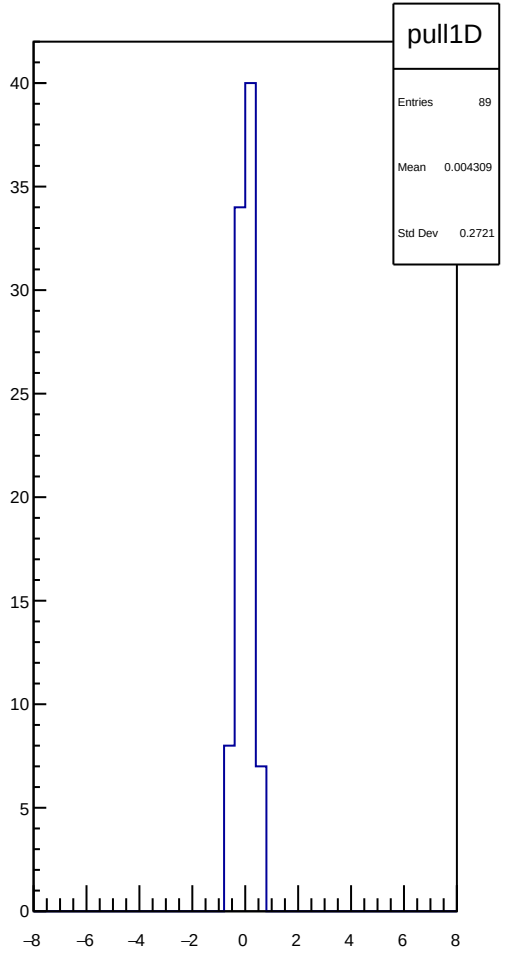

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.861 / 88
p0 −142.5 ± 12.69
pull
Entries 89
Mean 506.4
Std Dev 0

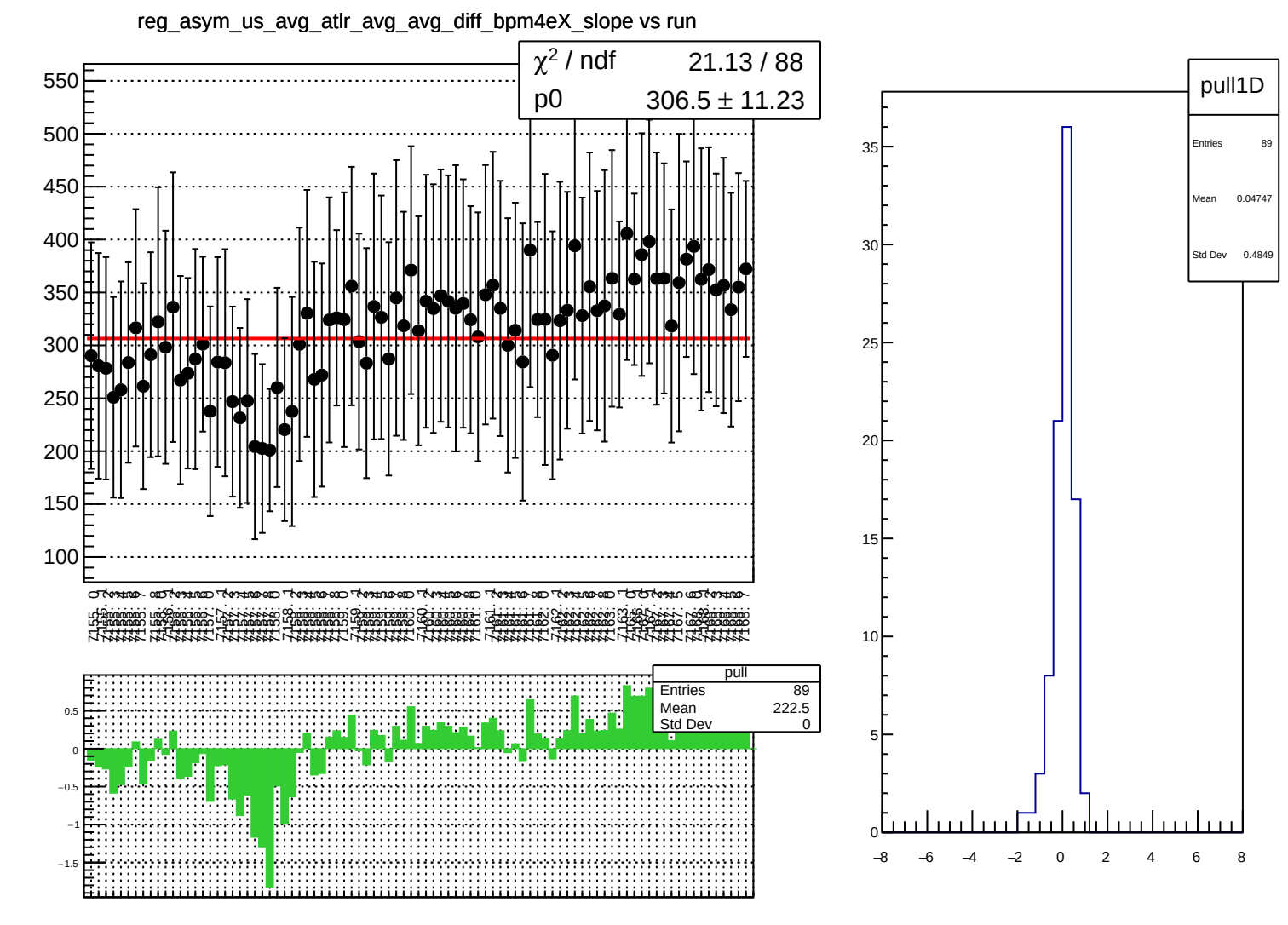

pull1D
Entries 89
Mean 0.01351
Std Dev 0.3326

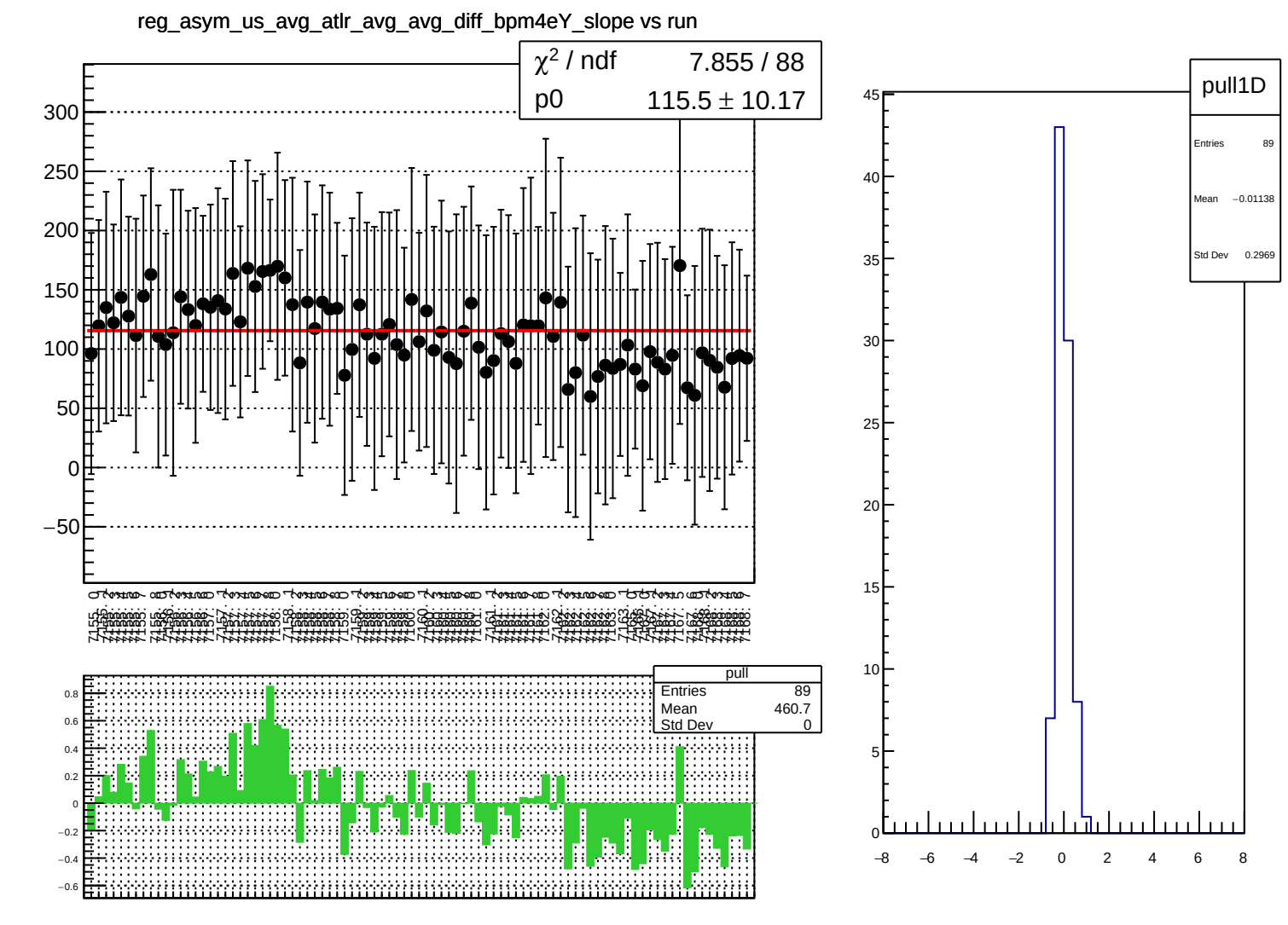

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 8.525 / 88
p0 222.4 ± 0.4813
pull
Entries 89
Mean 455
Std Dev 0
pull1D
Entries 89
Mean −0.003933
Std Dev 0.3095

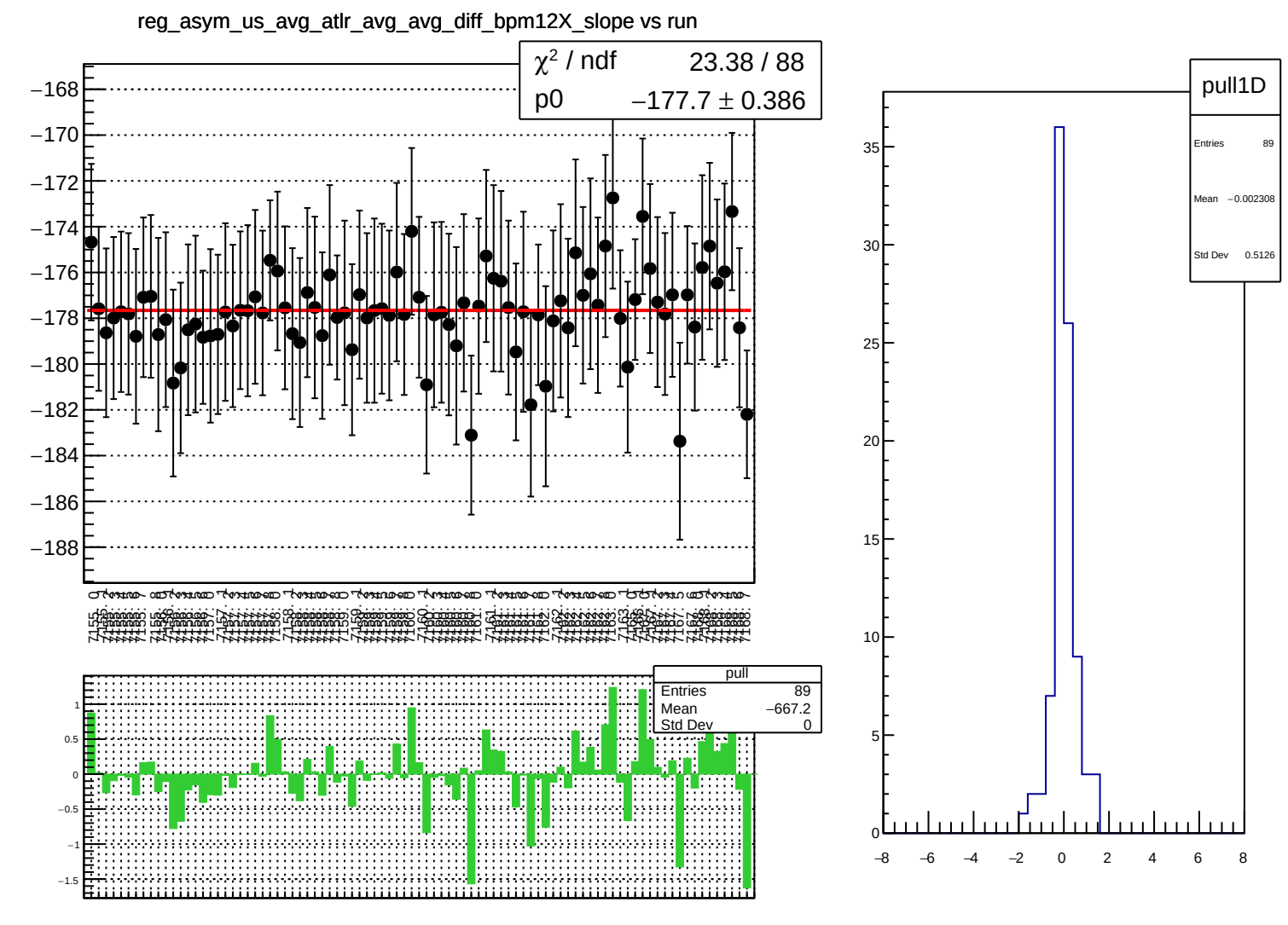

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 21.34 / 88
p0 −297.6 ± 11.09
pull
Entries 89
Mean 221.4
Std Dev 0
pull1D
Entries 89
Mean −0.04912
Std Dev 0.4872

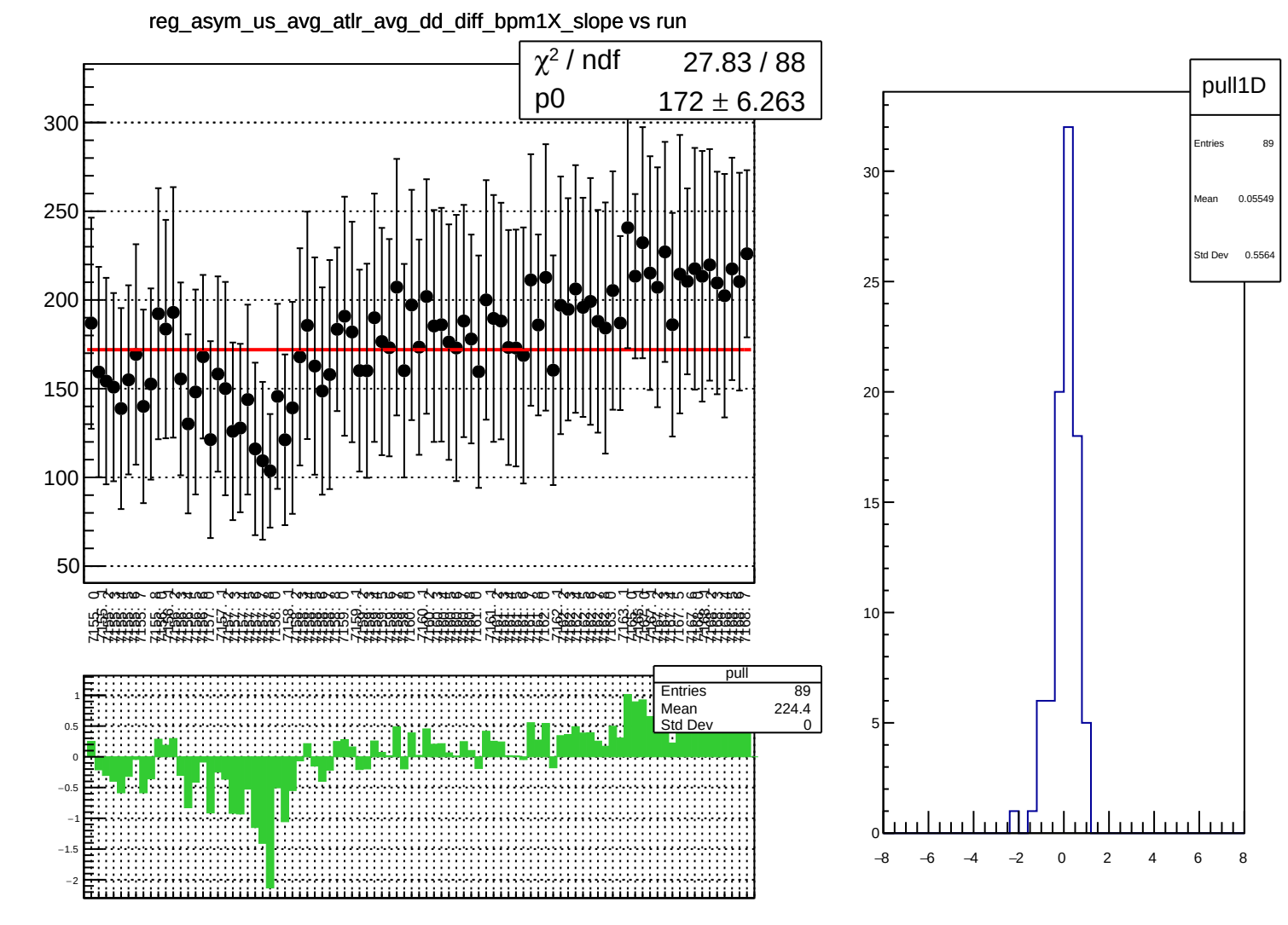

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.591 / 88
p0 −15.19 ± 8.758
150
100
50
0
−50
−100
−150
−200
pull
Entries 89
Mean 979.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

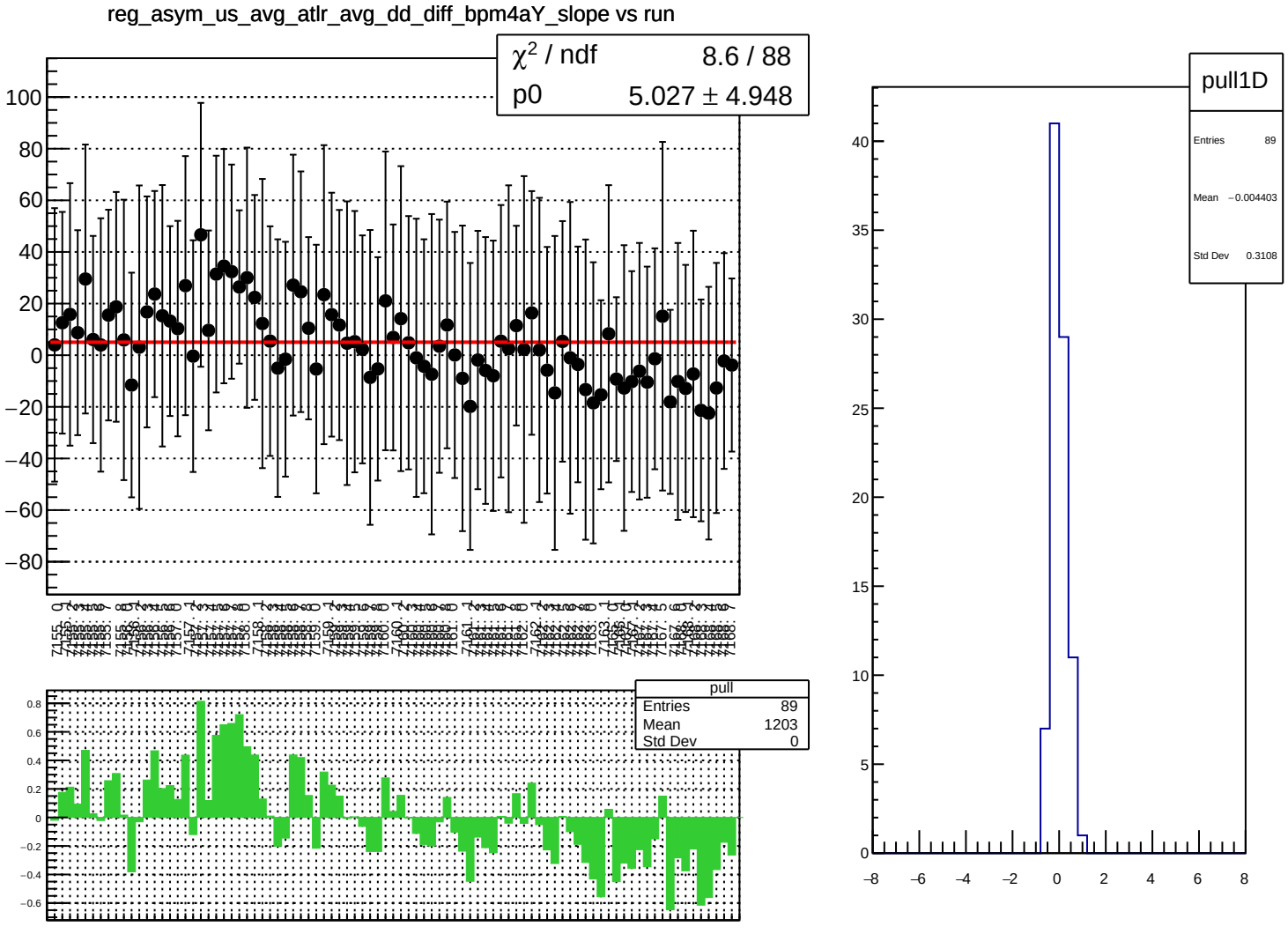

pull1D
Entries 89
Mean 0.004309
Std Dev 0.2721
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

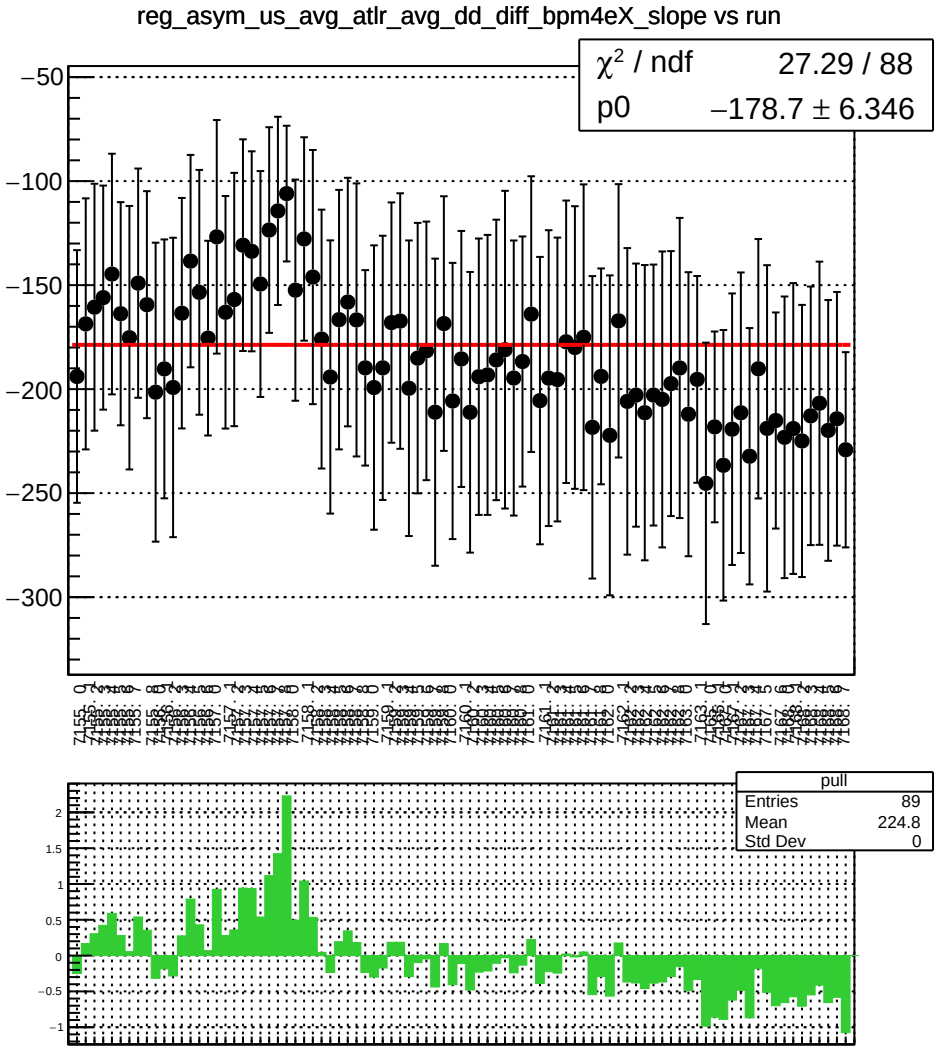

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.13 / 88
p0 306.5 ± 11.23
pull
Entries 89
Mean 222.5
Std Dev 0
pull1D
Entries 89
Mean 0.04747
Std Dev 0.4849

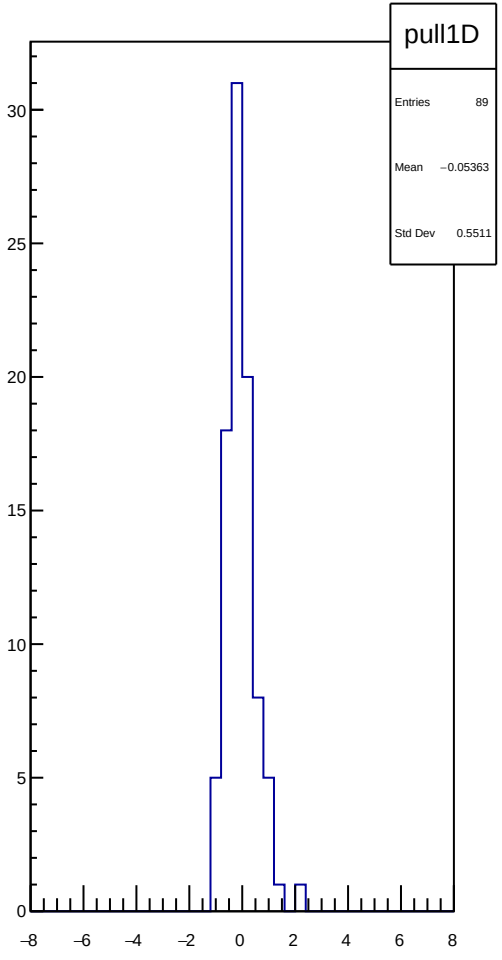

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 7.855 / 88
p0 115.5 ± 10.17
pull
Entries 89
Mean 460.7
Std Dev 0
pull1D
Entries 89
Mean −0.01138
Std Dev 0.2969

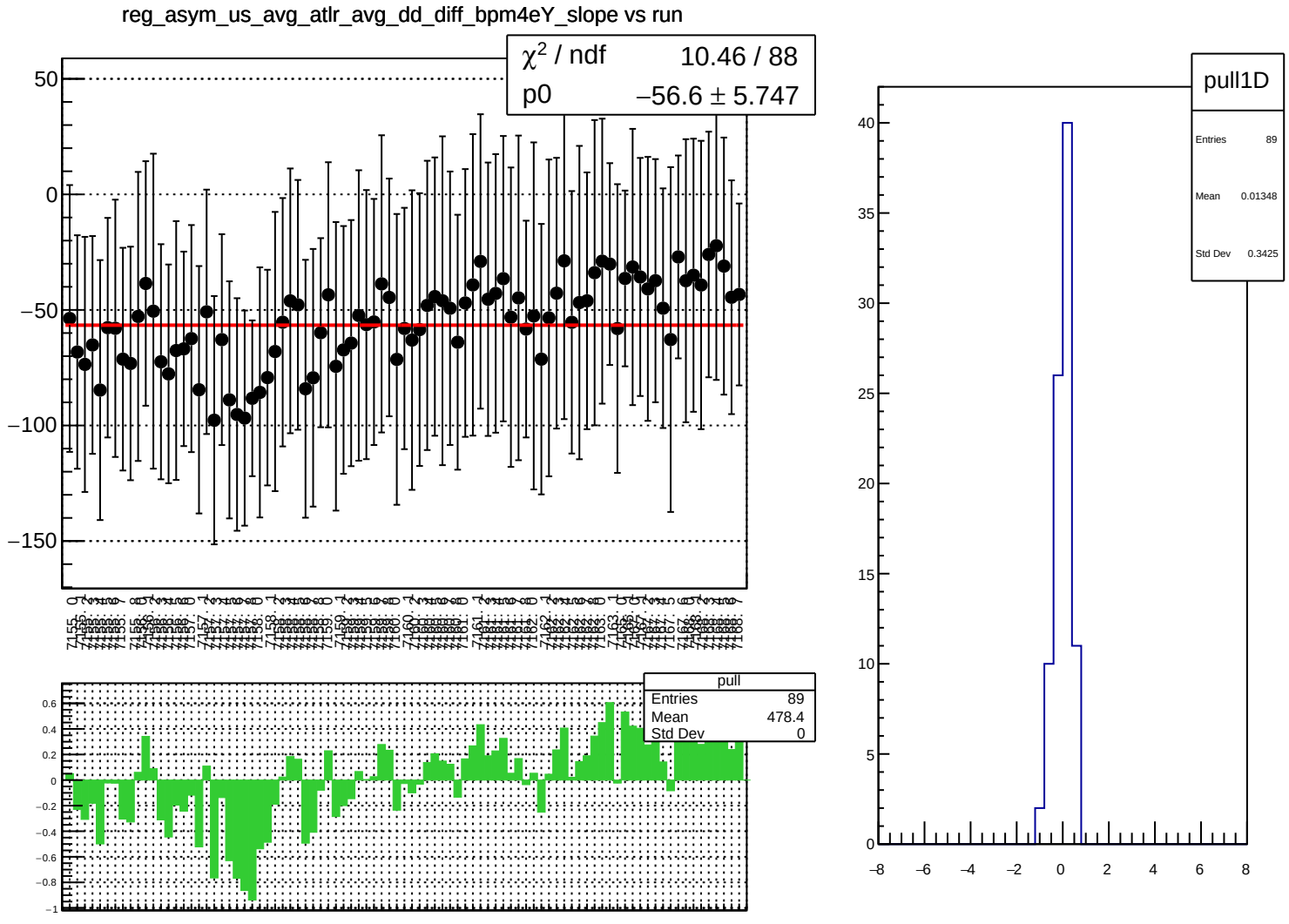

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 23.38 / 88
p0 −177.7 ± 0.386
pull
Entries 89
Mean −667.2
Std Dev 0
pull1D
Entries 89
Mean −0.002308
Std Dev 0.5126

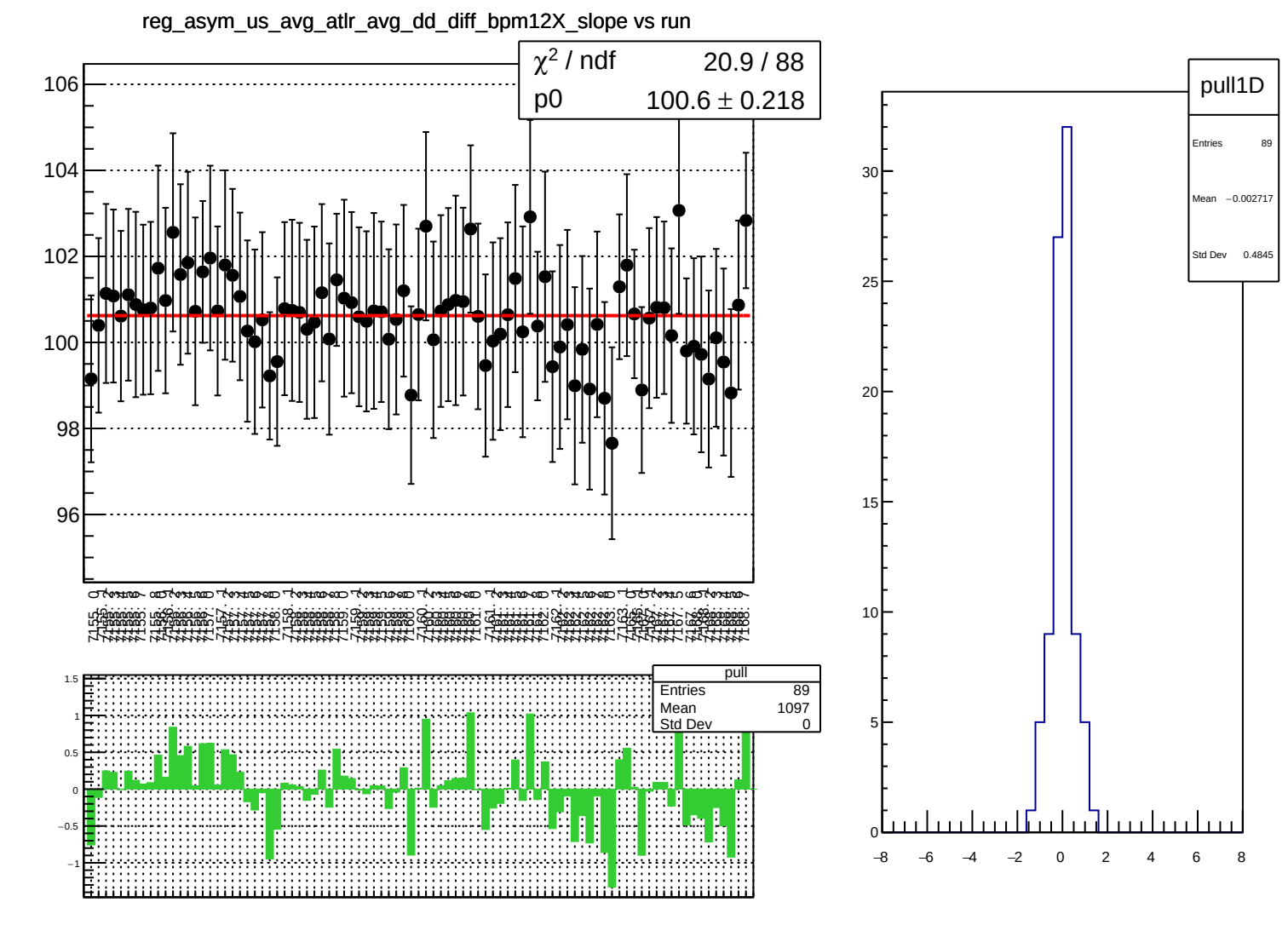

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 27.83 / 88
p0 172 ± 6.263
300
250
200
150
100
50
pull
Entries 89
Mean 224.4
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 89
Mean 0.05549
Std Dev 0.5564
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

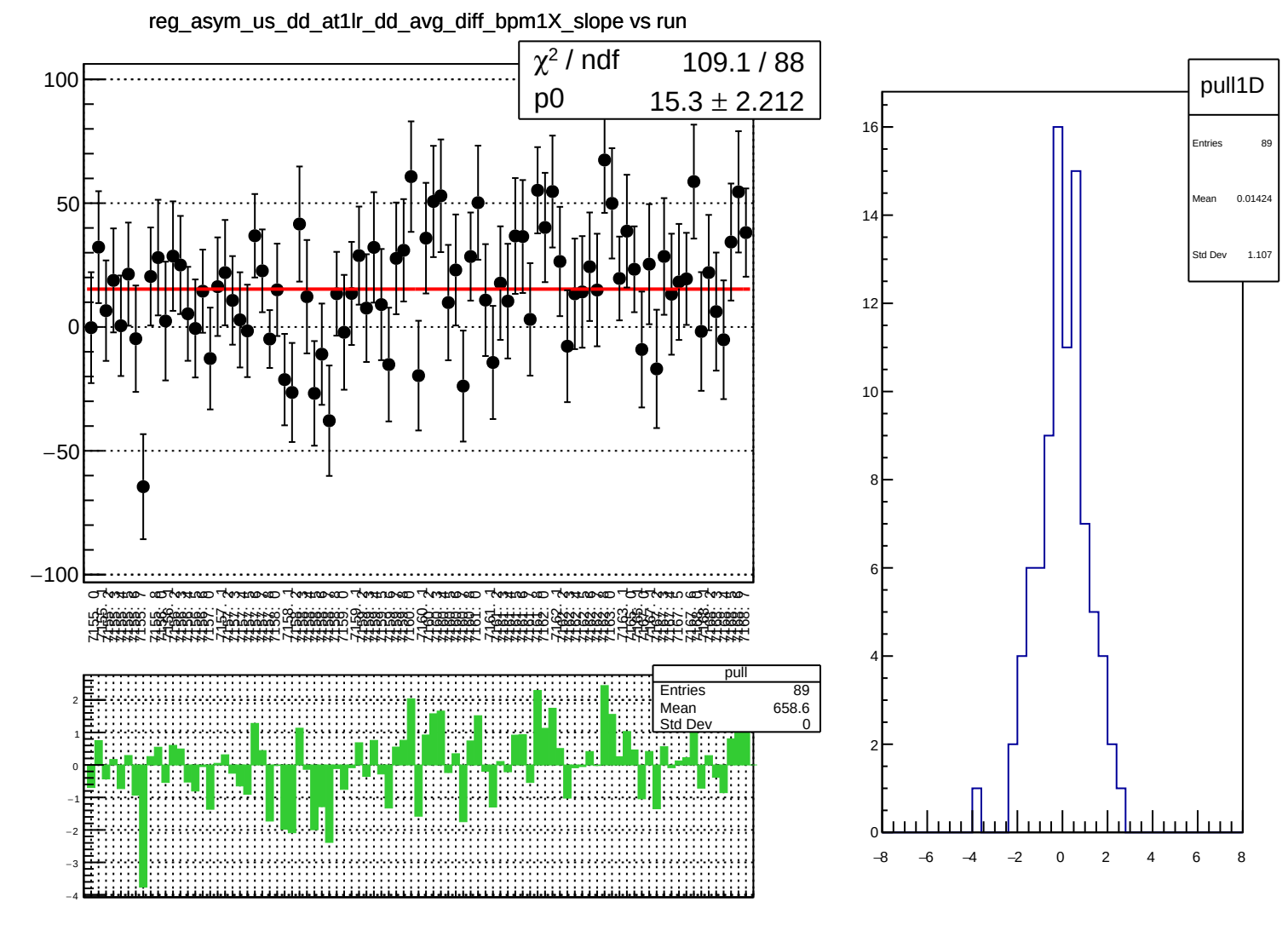

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.6 / 88
p0 5.027 ± 4.948
pull
Entries 89
Mean 1203
Std Dev 0
pull1D
Entries 89
Mean −0.004403
Std Dev 0.3108

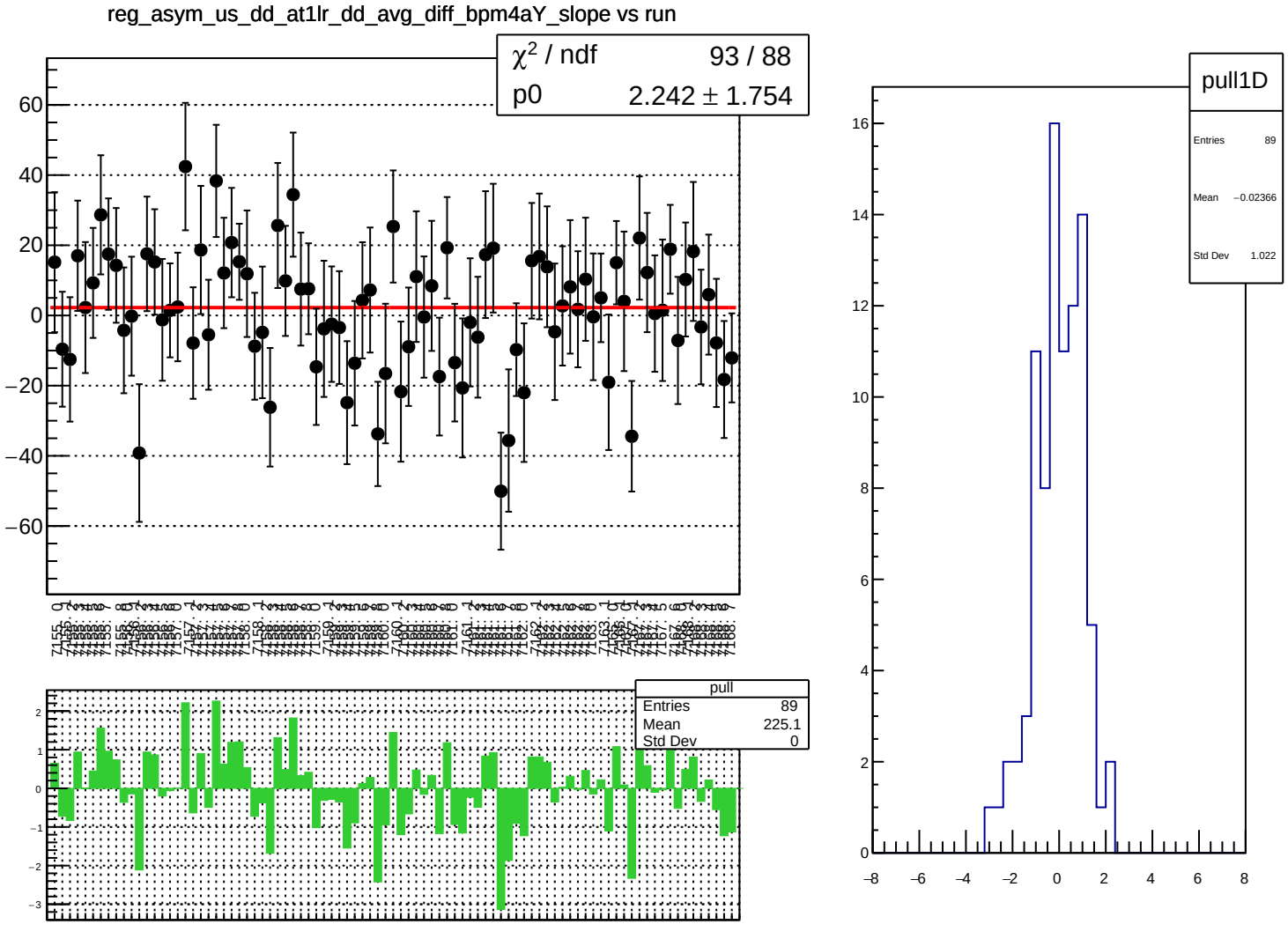

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 27.29 / 88
p0 −178.7 ± 6.346
pull
Entries 89
Mean 224.8
Std Dev 0

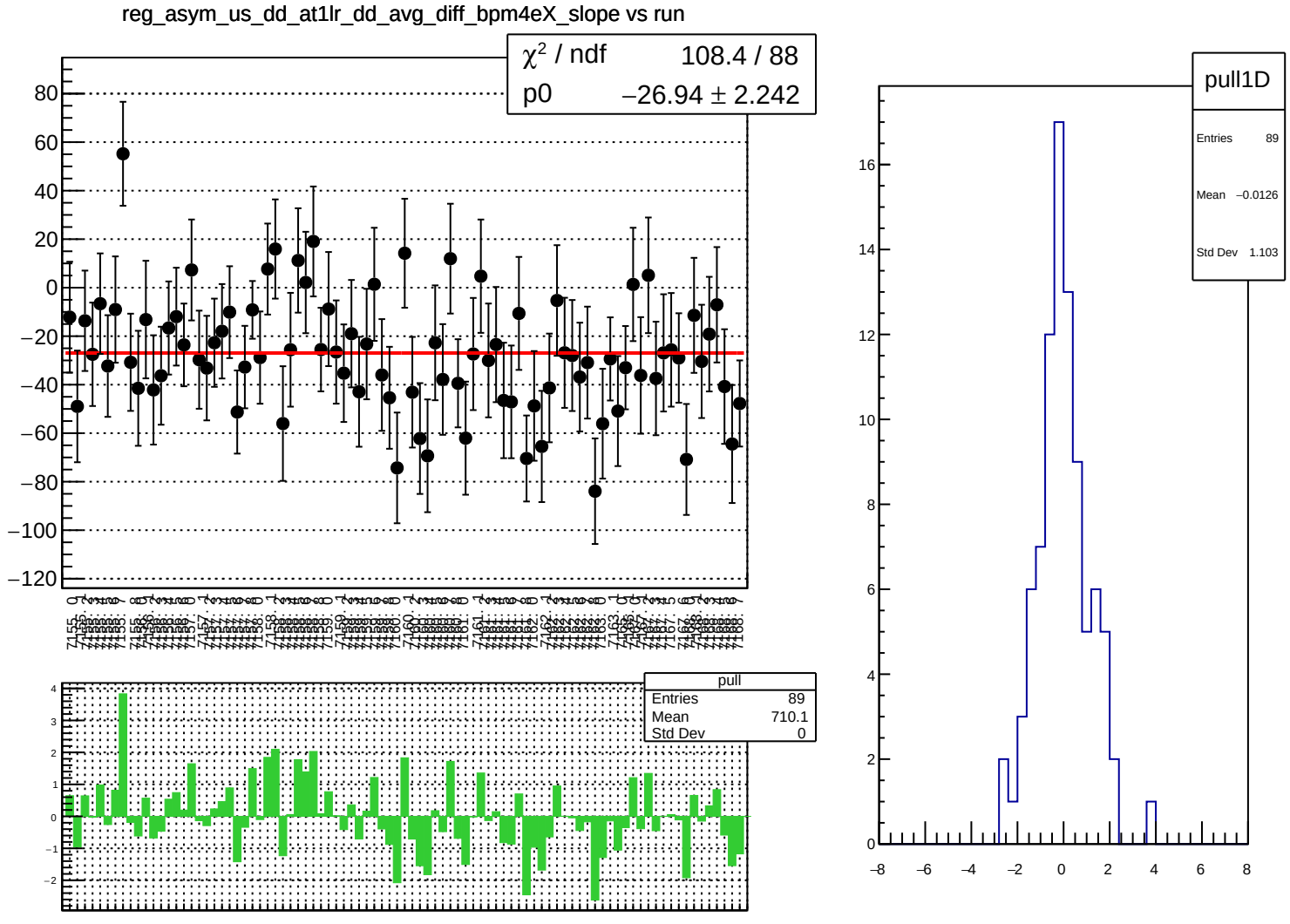

pull1D
Entries 89
Mean −0.05363
Std Dev 0.5511

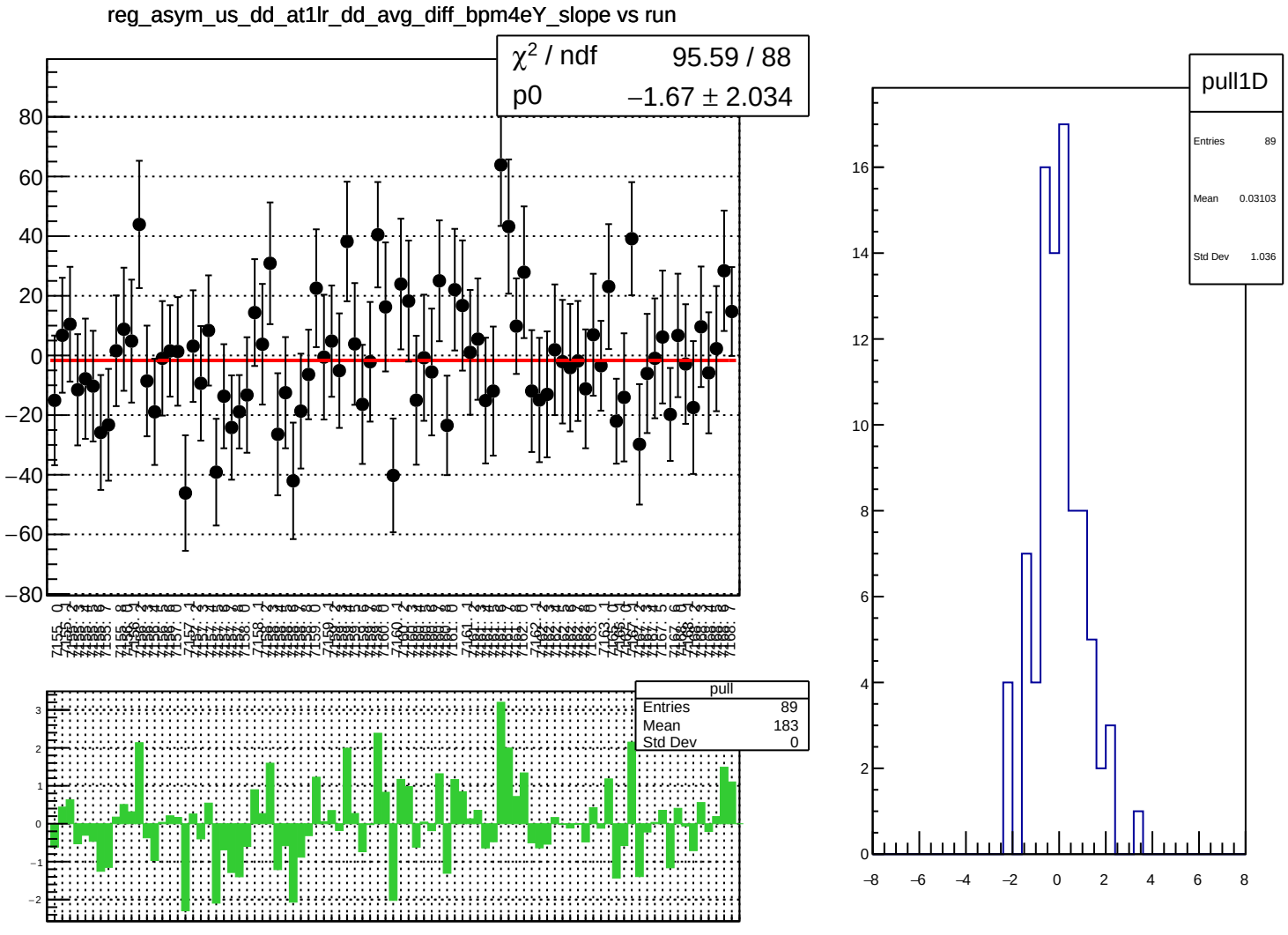

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.46 / 88
p0 −56.6 ± 5.747
pull
Entries 89
Mean 478.4
Std Dev 0
pull1D
Entries 89
Mean 0.01348
Std Dev 0.3425

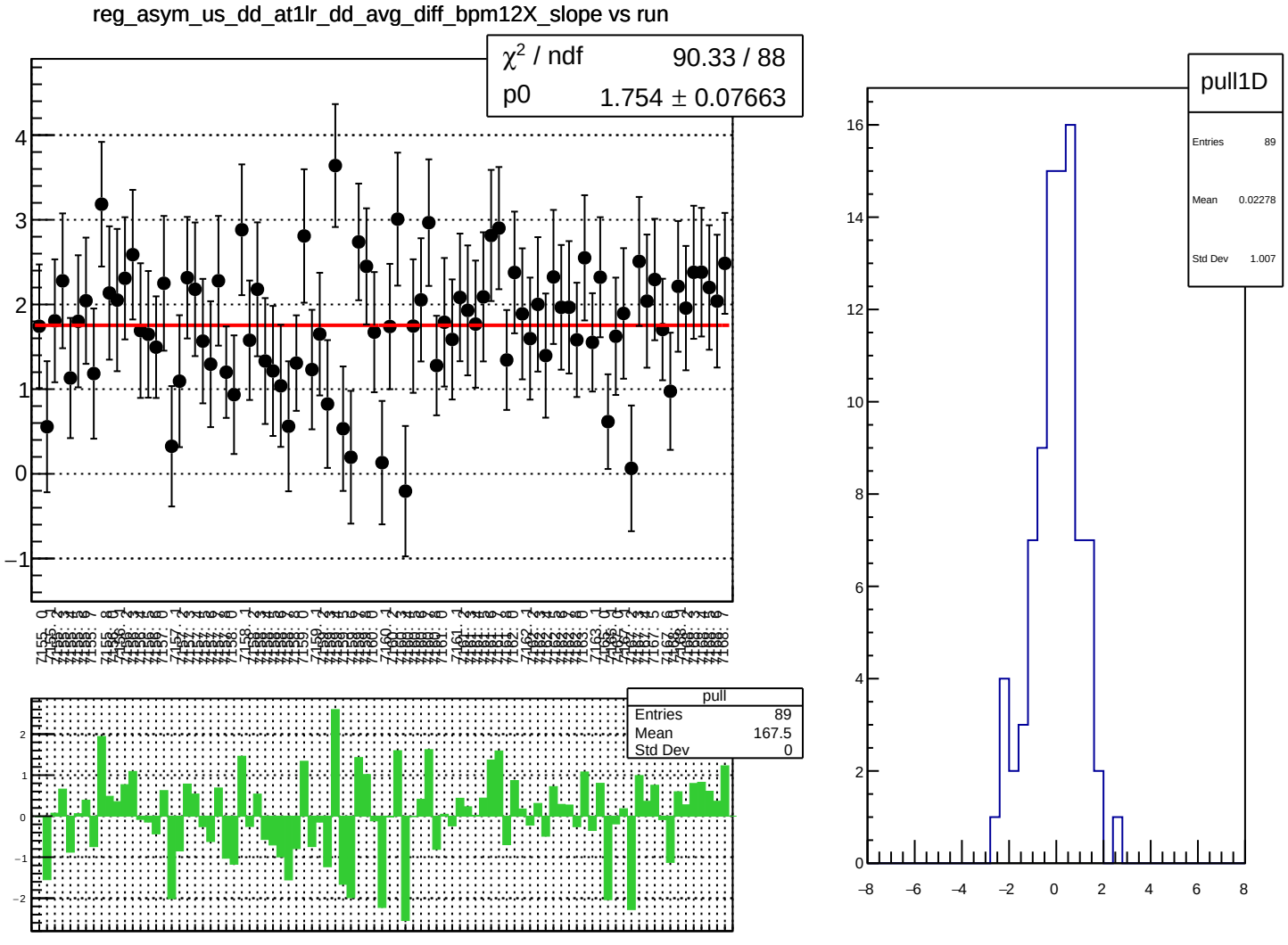

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 20.9 / 88
p0 100.6 ± 0.218
106
104
102
100
98
96
pull
Entries 89
Mean 1097
Std Dev 0
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 89
Mean −0.002717
Std Dev 0.4845
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

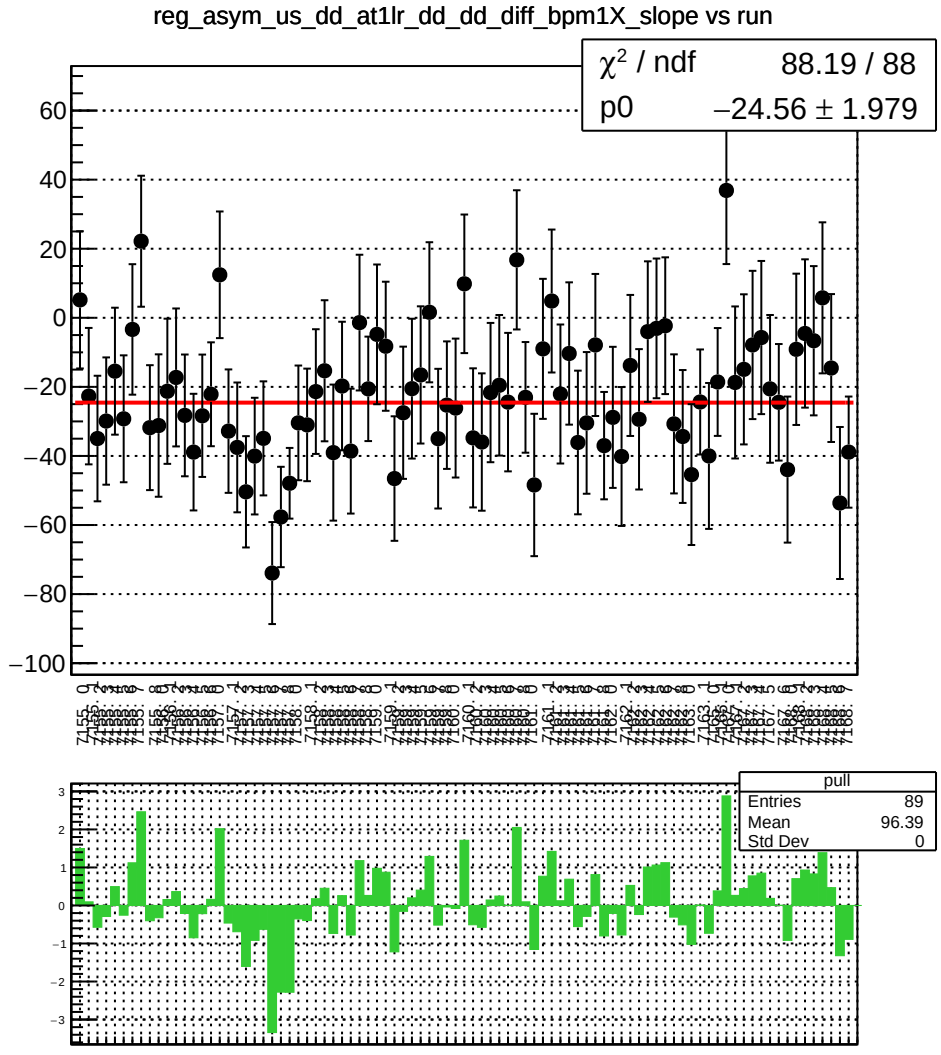

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 109.1 / 88
p0 15.3 ± 2.212
pull
Entries 89
Mean 658.6
Std Dev 0
pull1D
Entries 89
Mean 0.01424
Std Dev 1.107

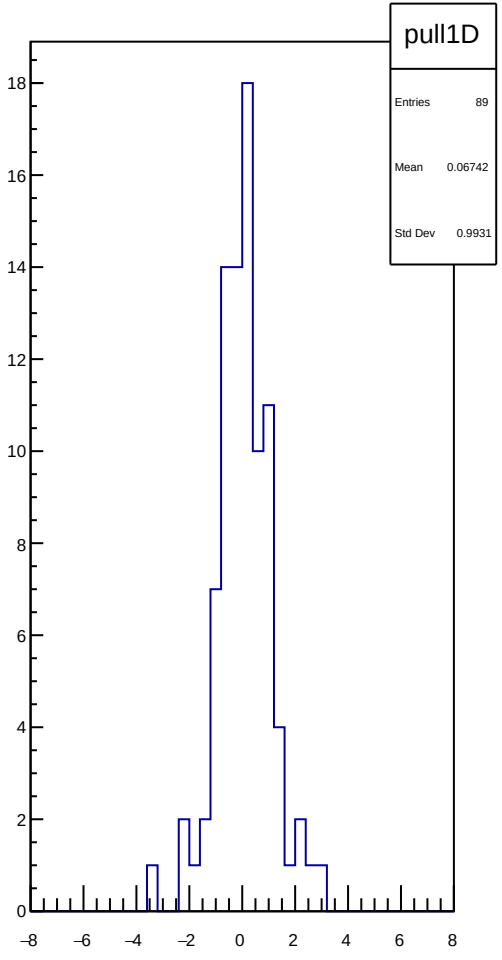

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 93 / 88
p0 2.242 ± 1.754
pull
Entries 89
Mean 225.1
Std Dev 0
pull1D
Entries 89
Mean −0.02366
Std Dev 1.022

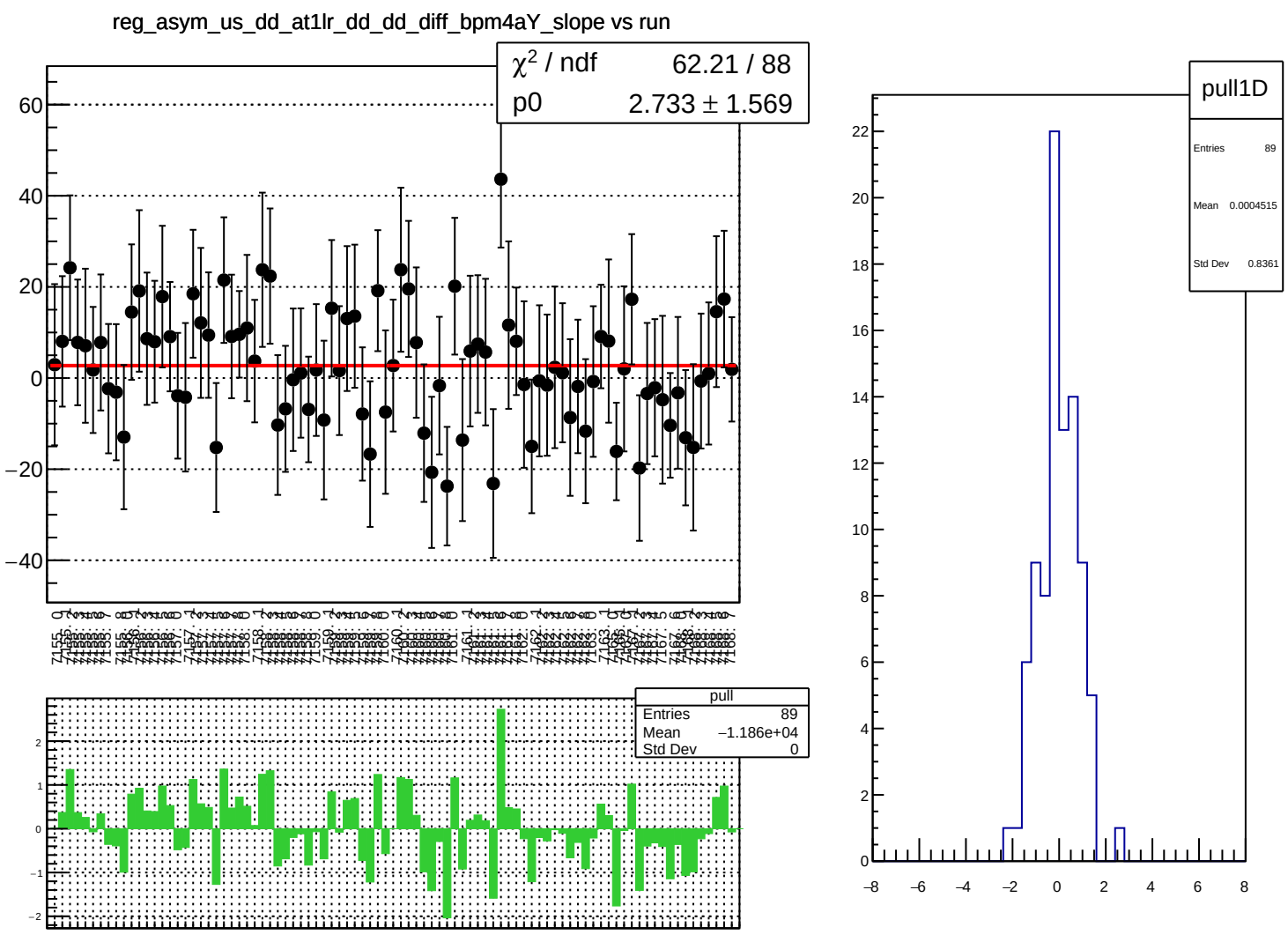

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 108.4 / 88
p0 −26.94 ± 2.242
pull
Entries 89
Mean 710.1
Std Dev 0
pull1D
Entries 89
Mean −0.0126
Std Dev 1.103

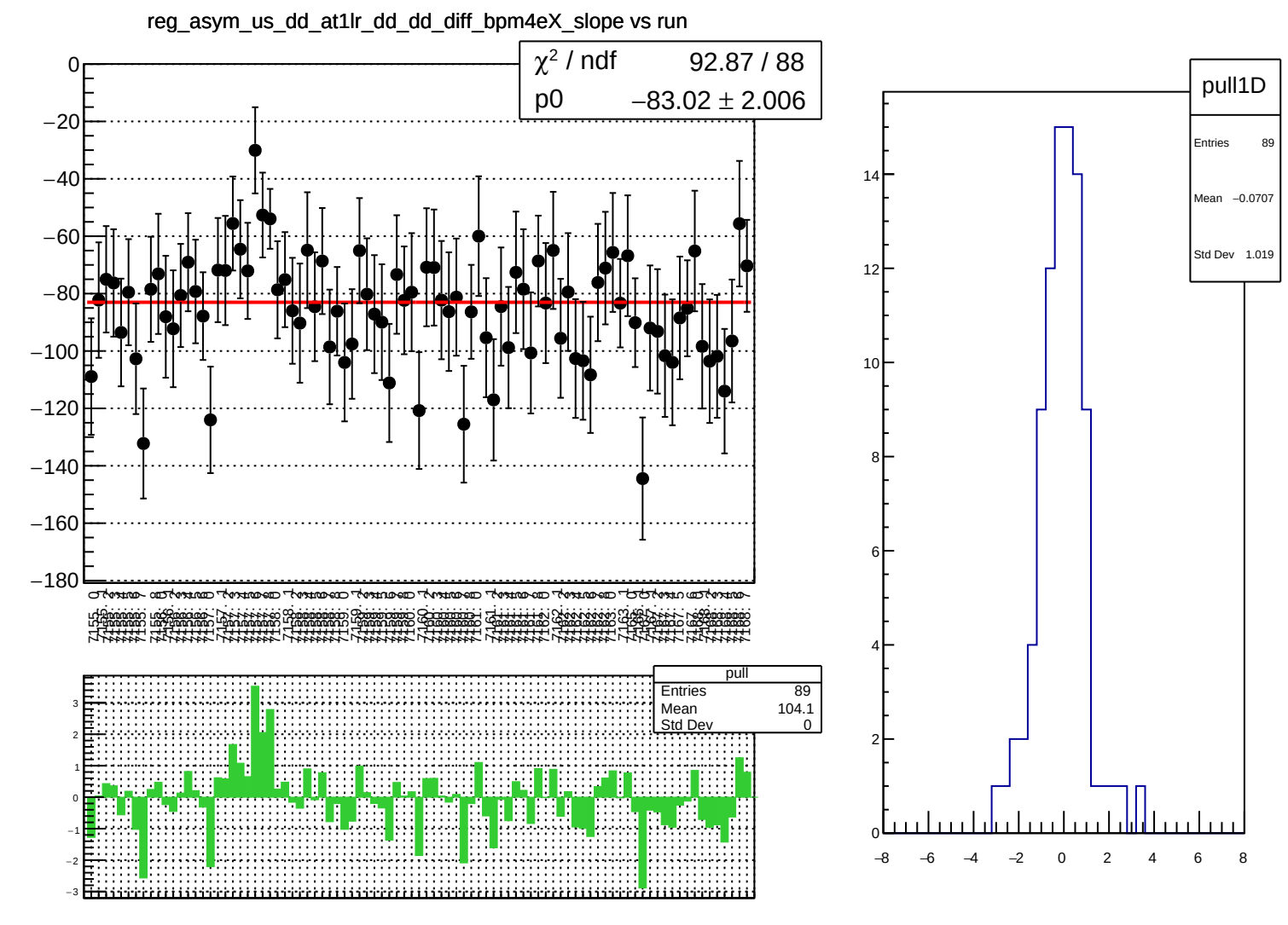

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.59 / 88
p0 −1.67 ± 2.034
pull
Entries 89
Mean 183
Std Dev 0
pull1D
Entries 89
Mean 0.03103
Std Dev 1.036

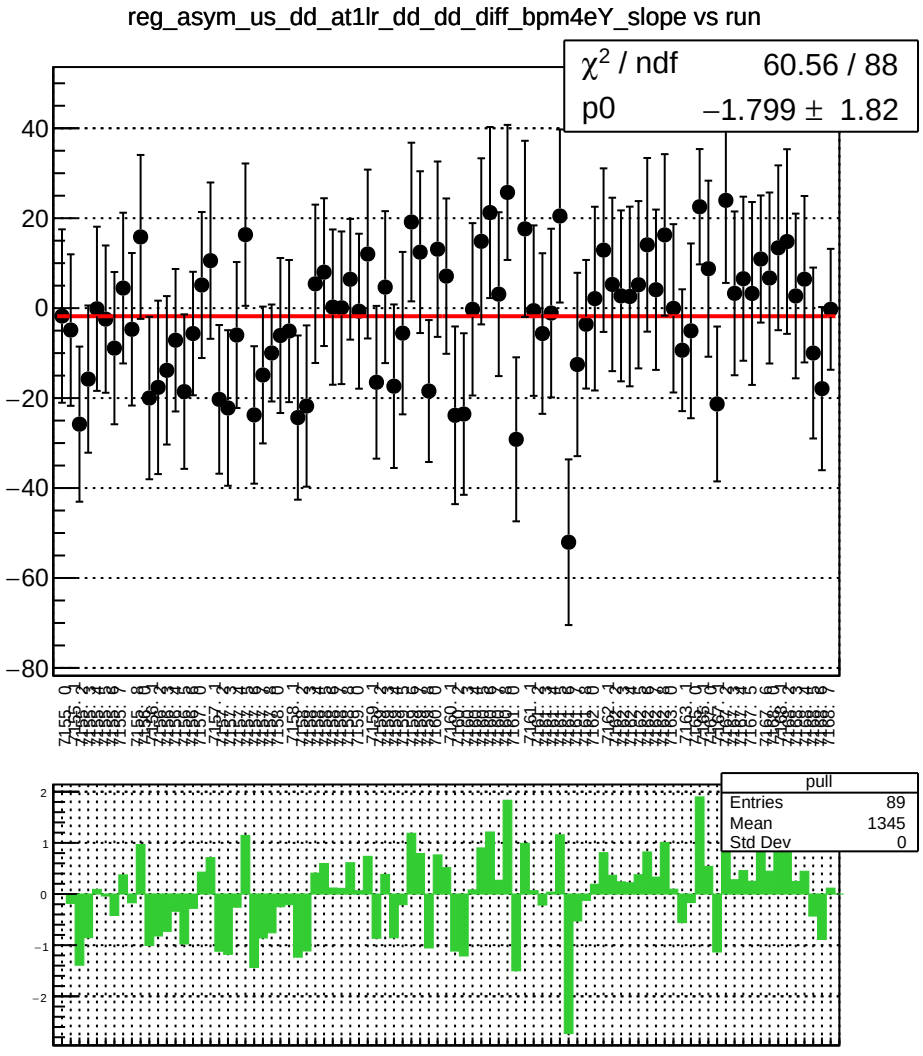

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 90.33 / 88
p0 1.754 ± 0.07663
pull
Entries 89
Mean 167.5
Std Dev 0
pull1D
Entries 89
Mean 0.02278
Std Dev 1.007

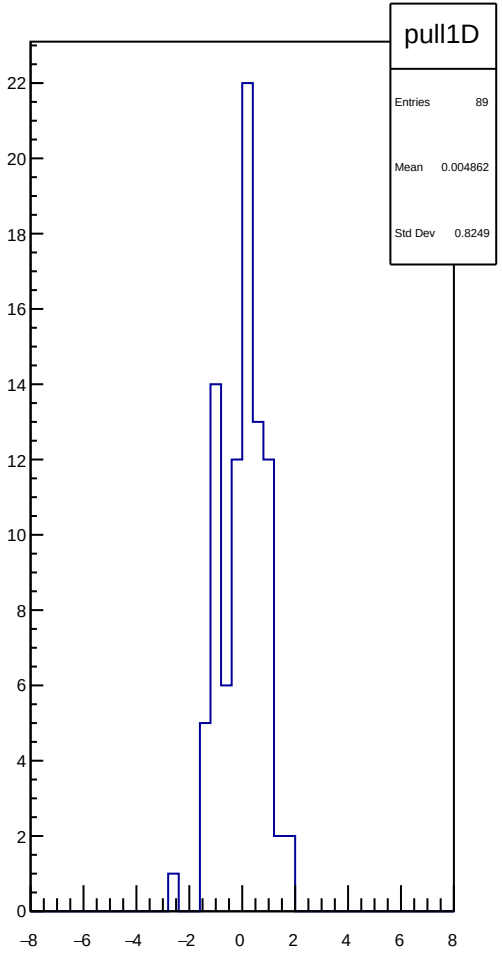

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 88.19 / 88
p0 −24.56 ± 1.979
pull
Entries 89
Mean 96.39
Std Dev 0

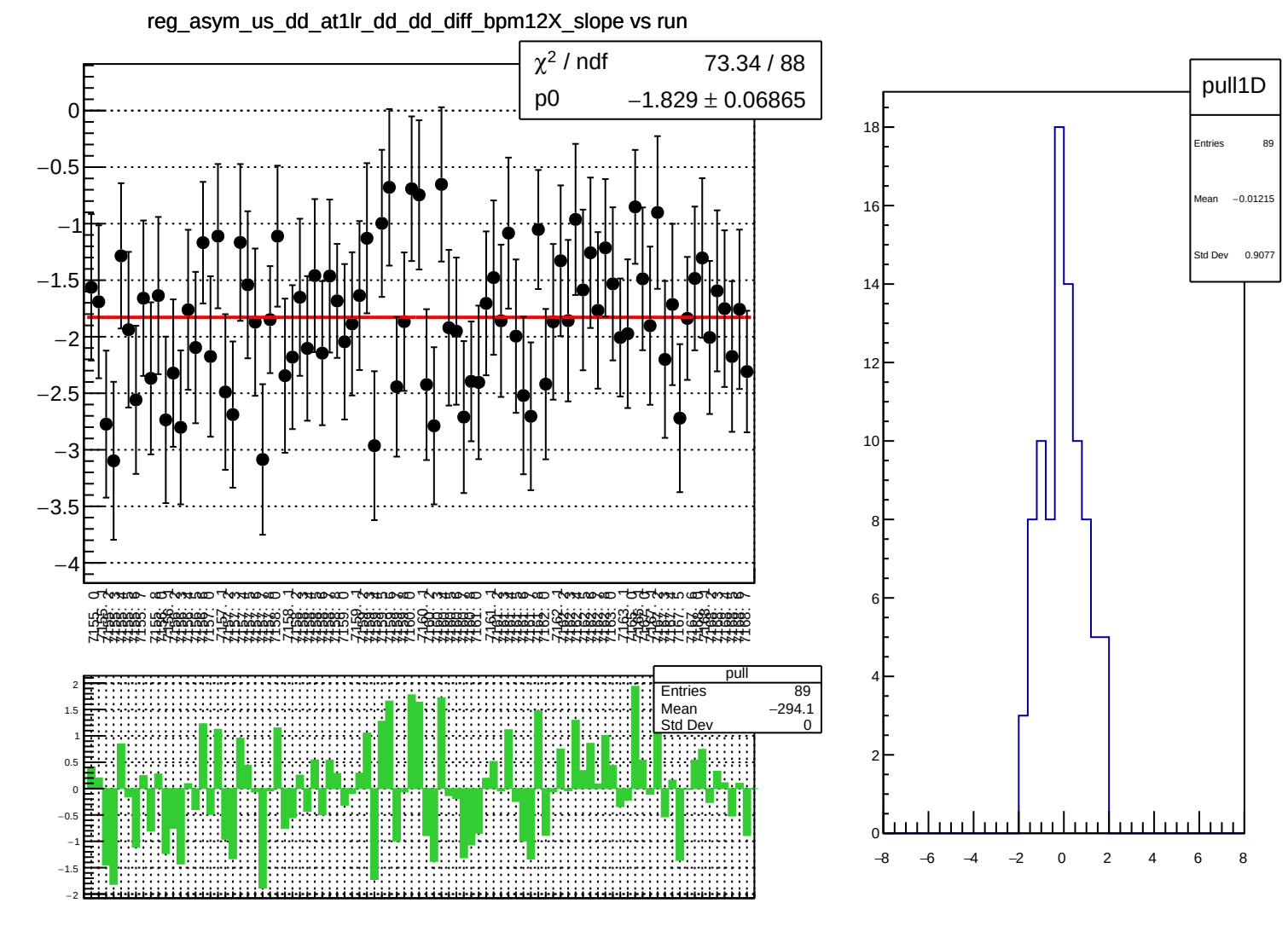

pull1D
Entries 89
Mean 0.06742
Std Dev 0.9931

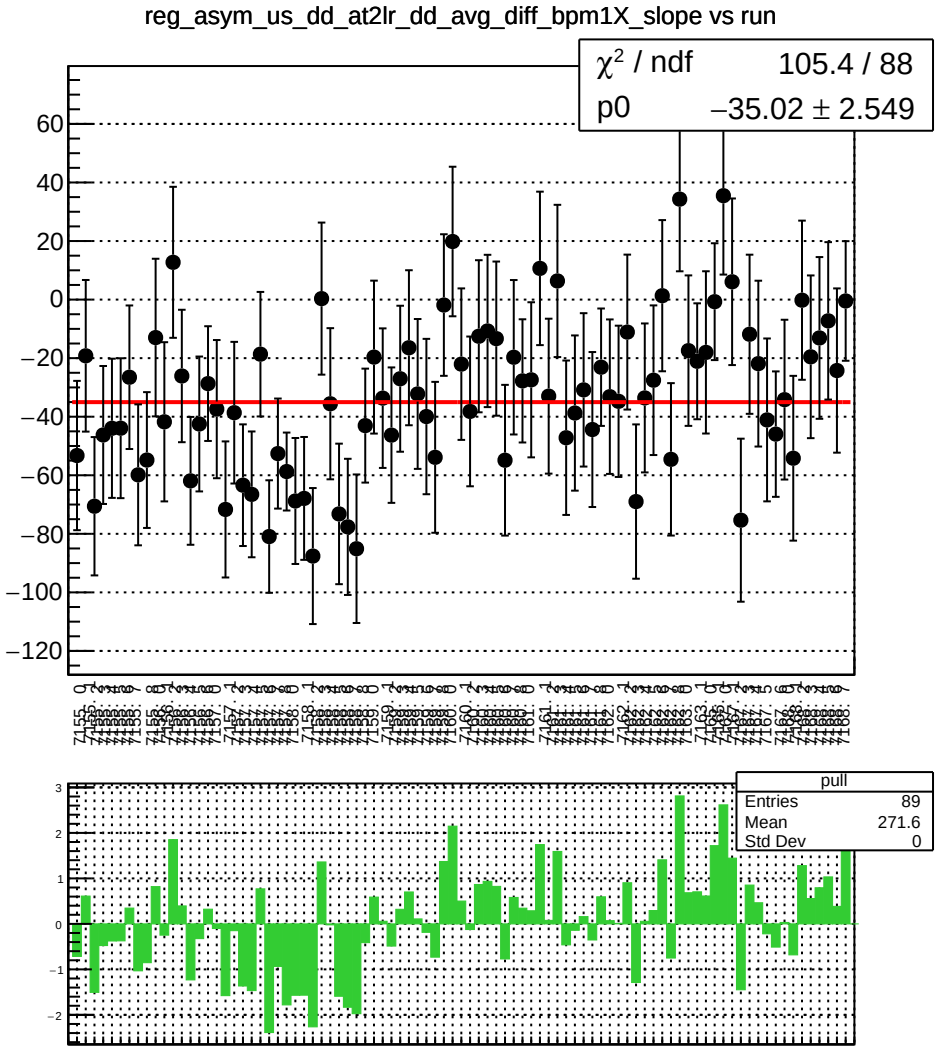

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.21 / 88
p0 2.733 ± 1.569
pull
Entries 89
Mean −1.186e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0004515
Std Dev 0.8361

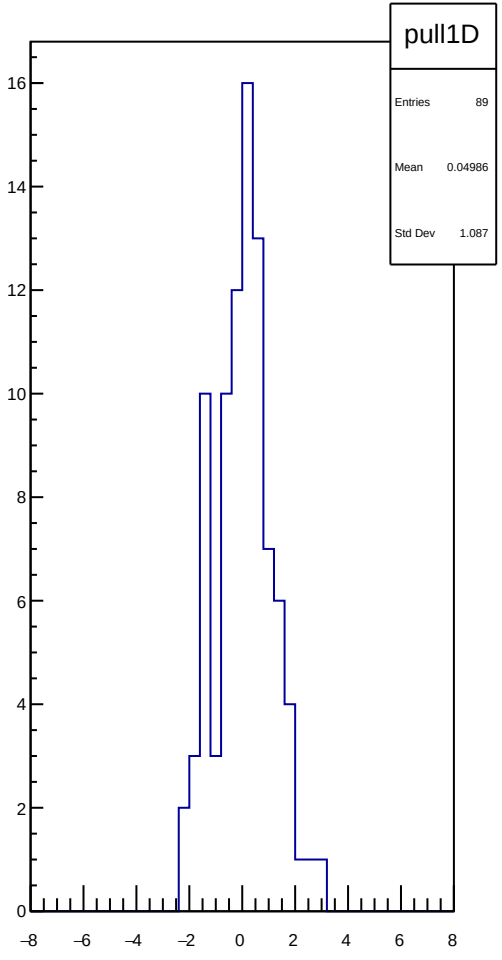

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.87 / 88
p0 −83.02 ± 2.006
pull
Entries 89
Mean 104.1
Std Dev 0
pull1D
Entries 89
Mean −0.0707
Std Dev 1.019

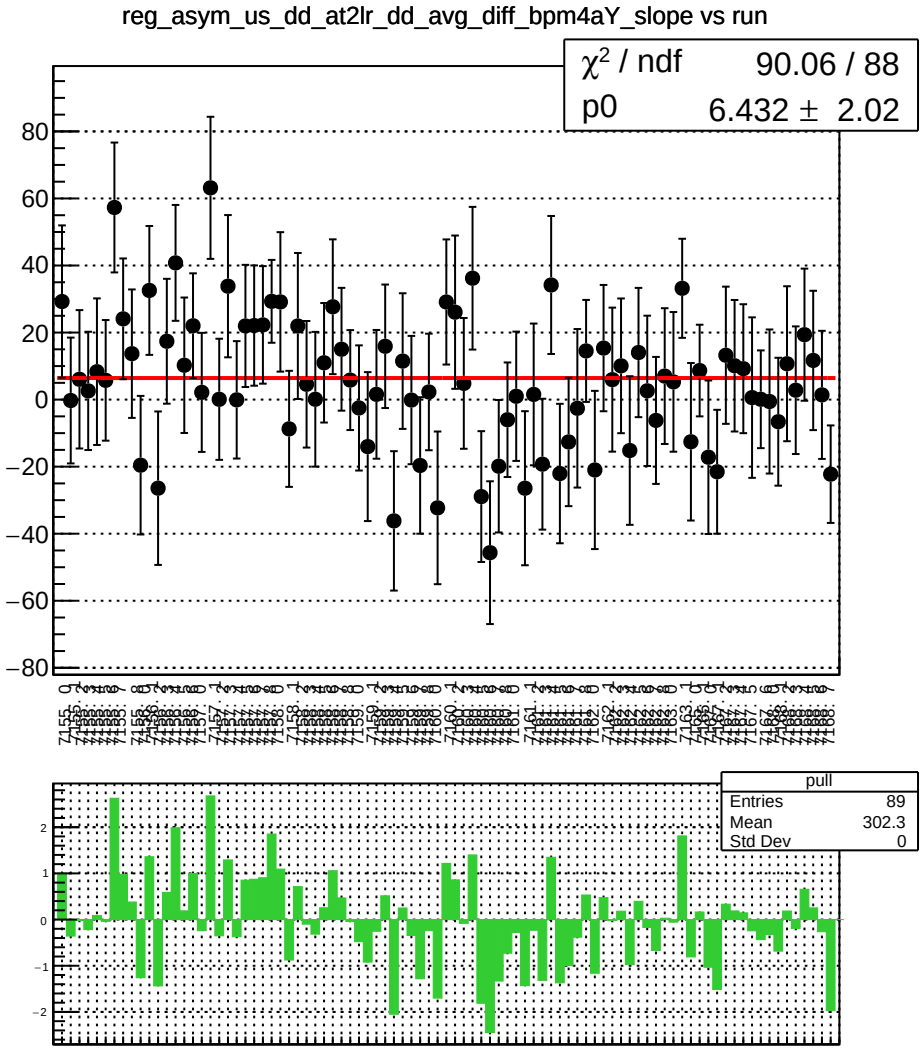

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.56 / 88
p0 −1.799 ± 1.82
pull
Entries 89
Mean 1345
Std Dev 0

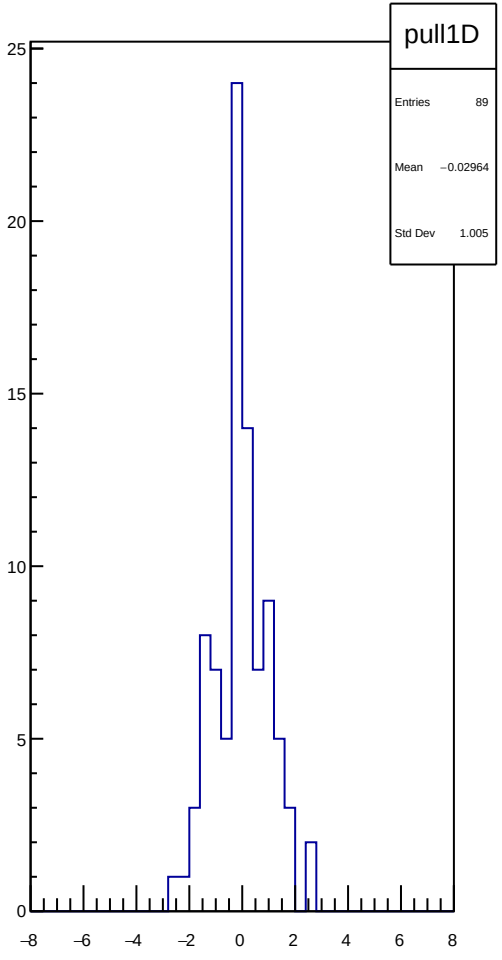

pull1D
Entries 89
Mean 0.004862
Std Dev 0.8249

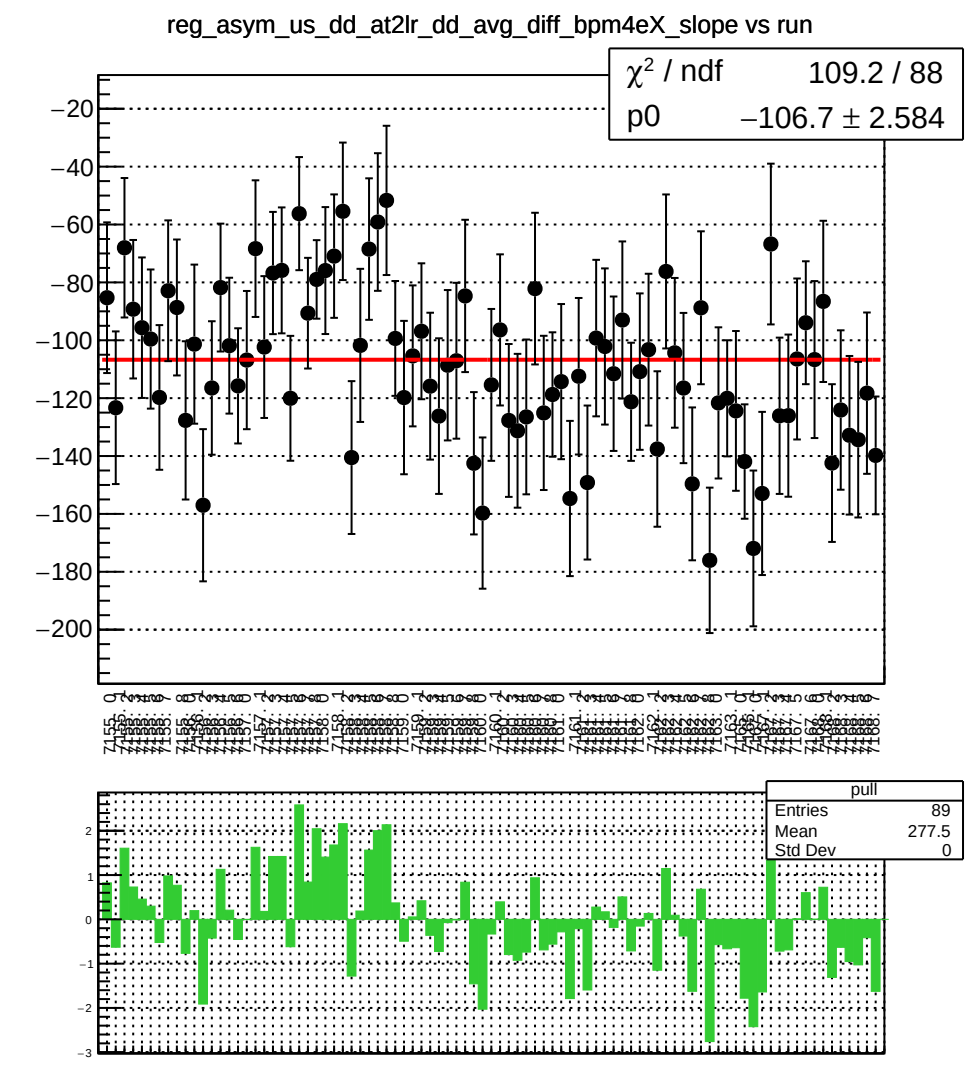

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 73.34 / 88
p0 −1.829 ± 0.06865
pull
Entries 89
Mean −294.1
Std Dev 0
pull1D
Entries 89
Mean −0.01215
Std Dev 0.9077

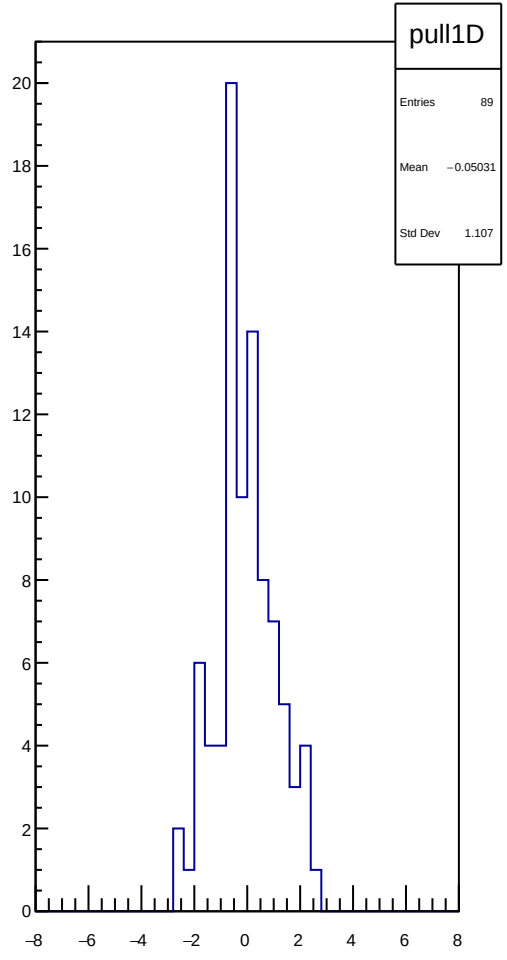

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 105.4 / 88
p0 −35.02 ± 2.549
pull
Entries 89
Mean 271.6
Std Dev 0

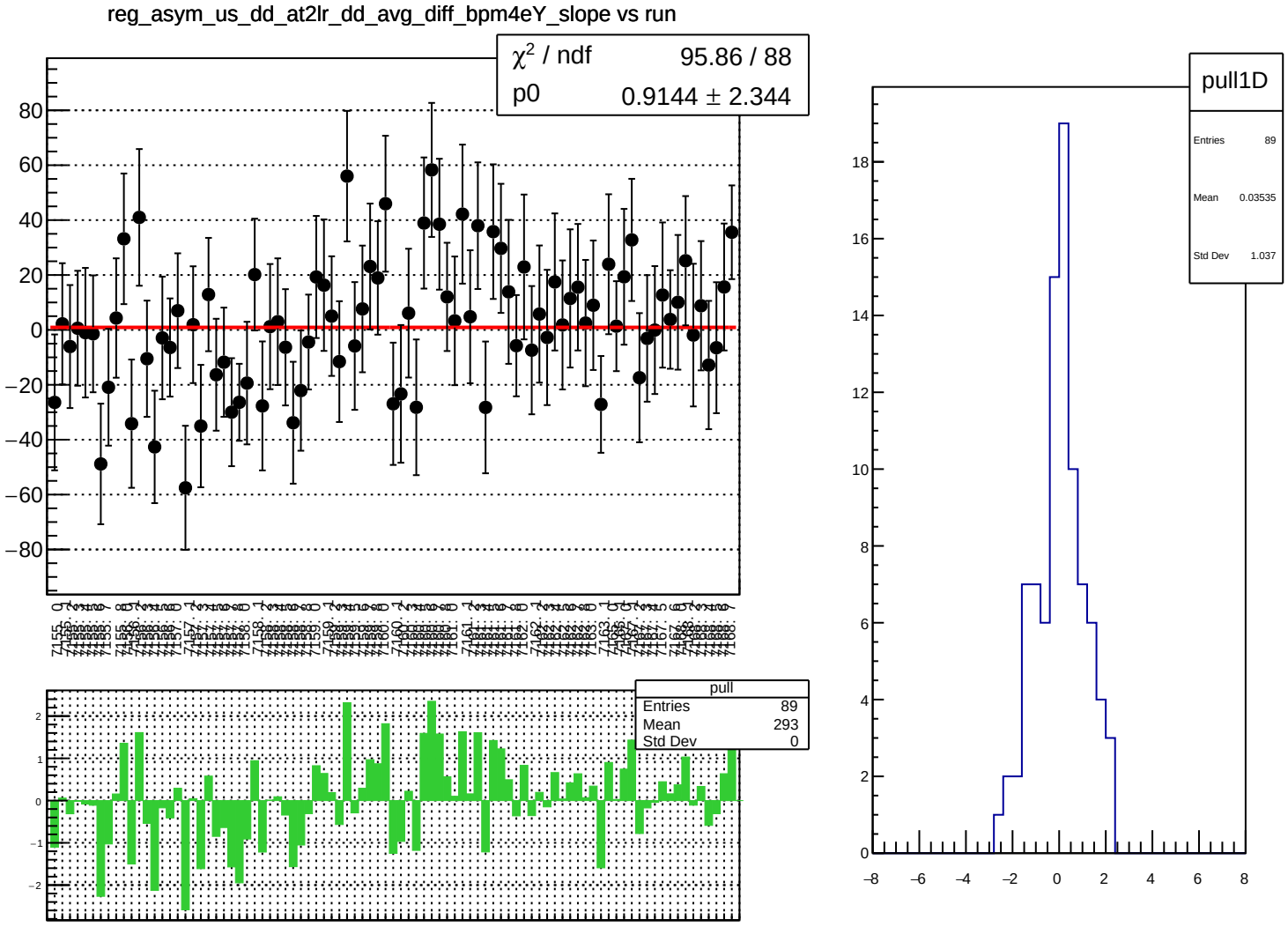

pull1D
Entries 89
Mean 0.04986
Std Dev 1.087

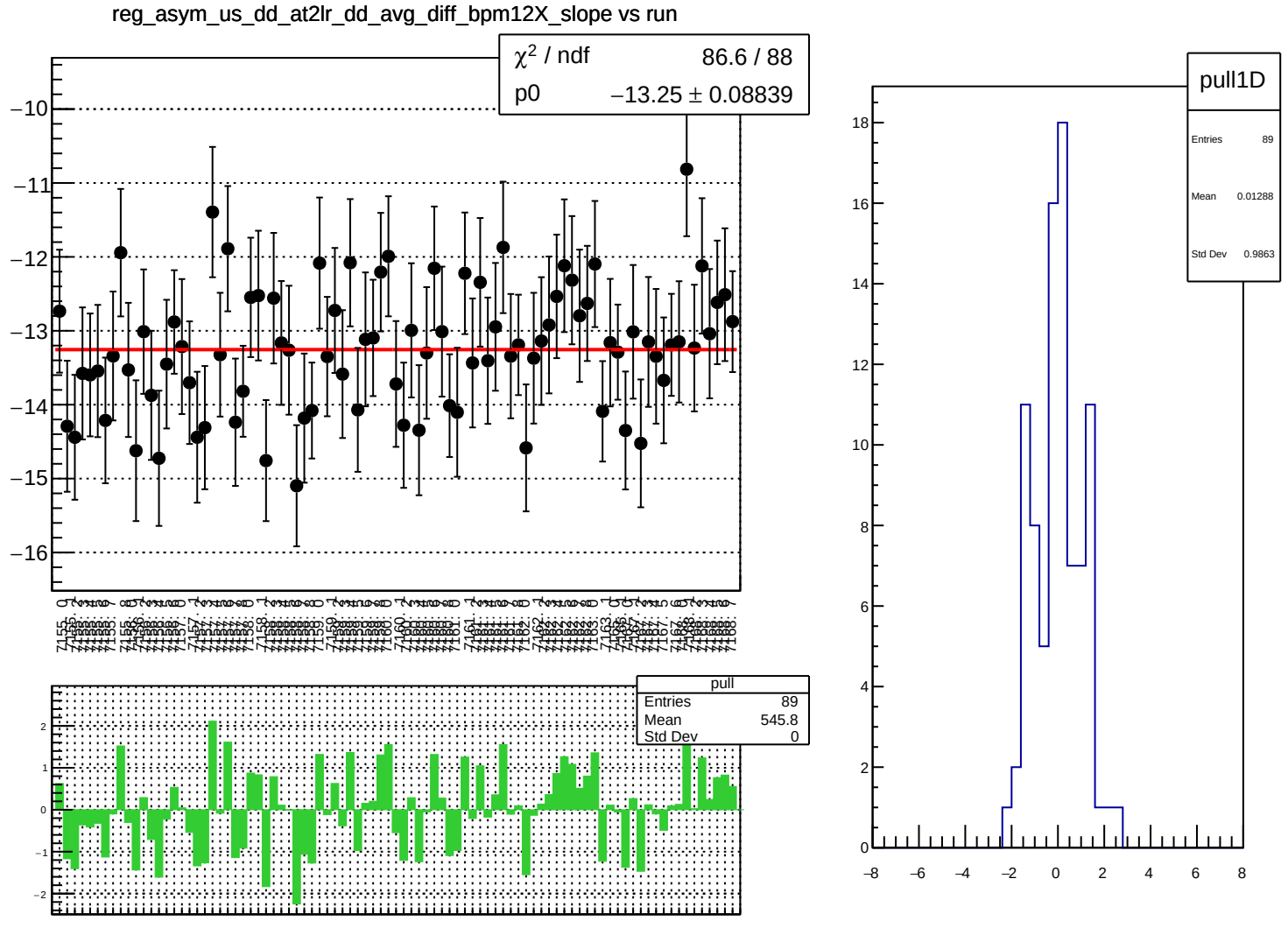

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.06 / 88
p0 6.432 ± 2.02
pull
Entries 89
Mean 302.3
Std Dev 0

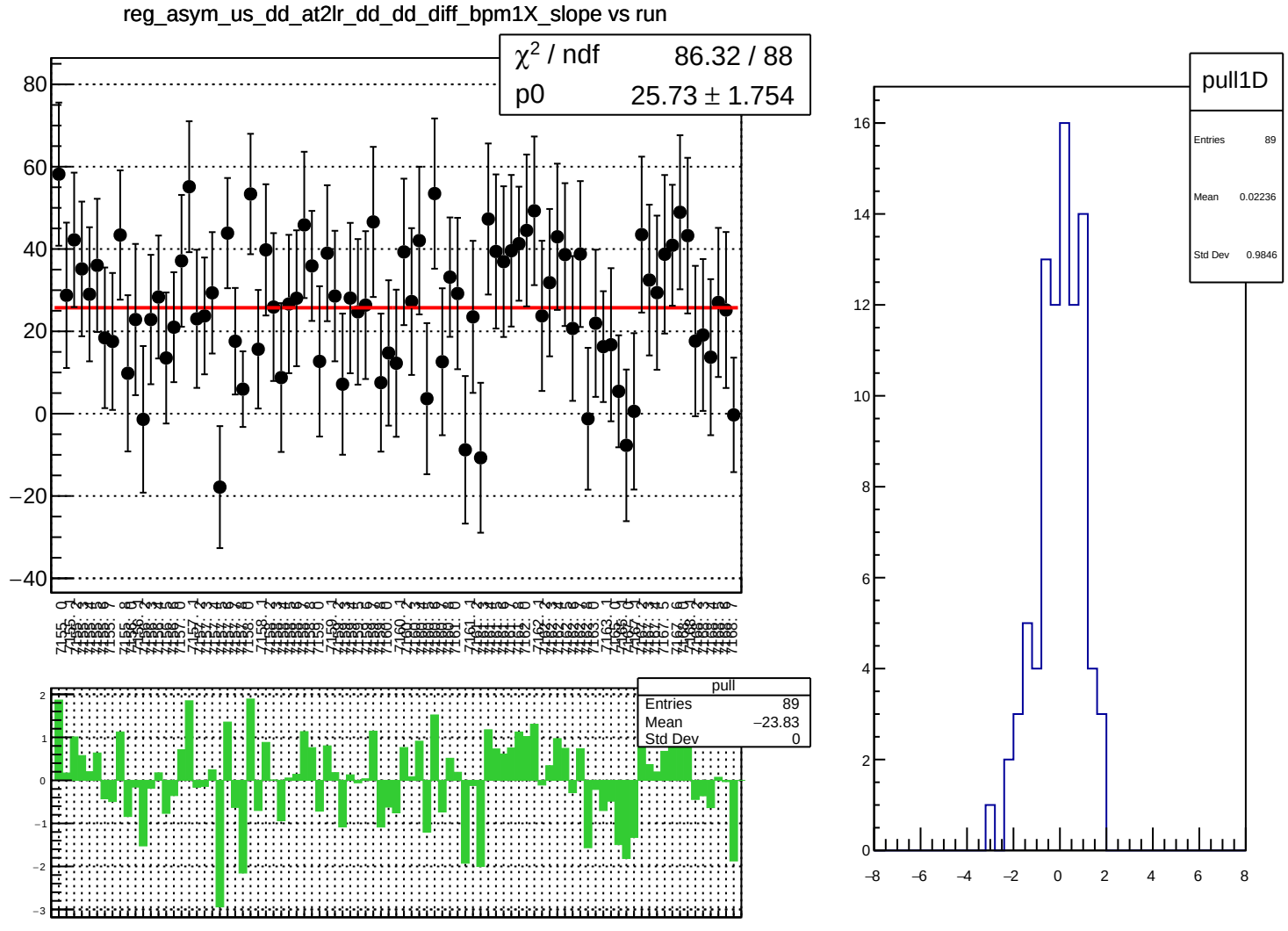

pull1D
Entries 89
Mean −0.02964
Std Dev 1.005

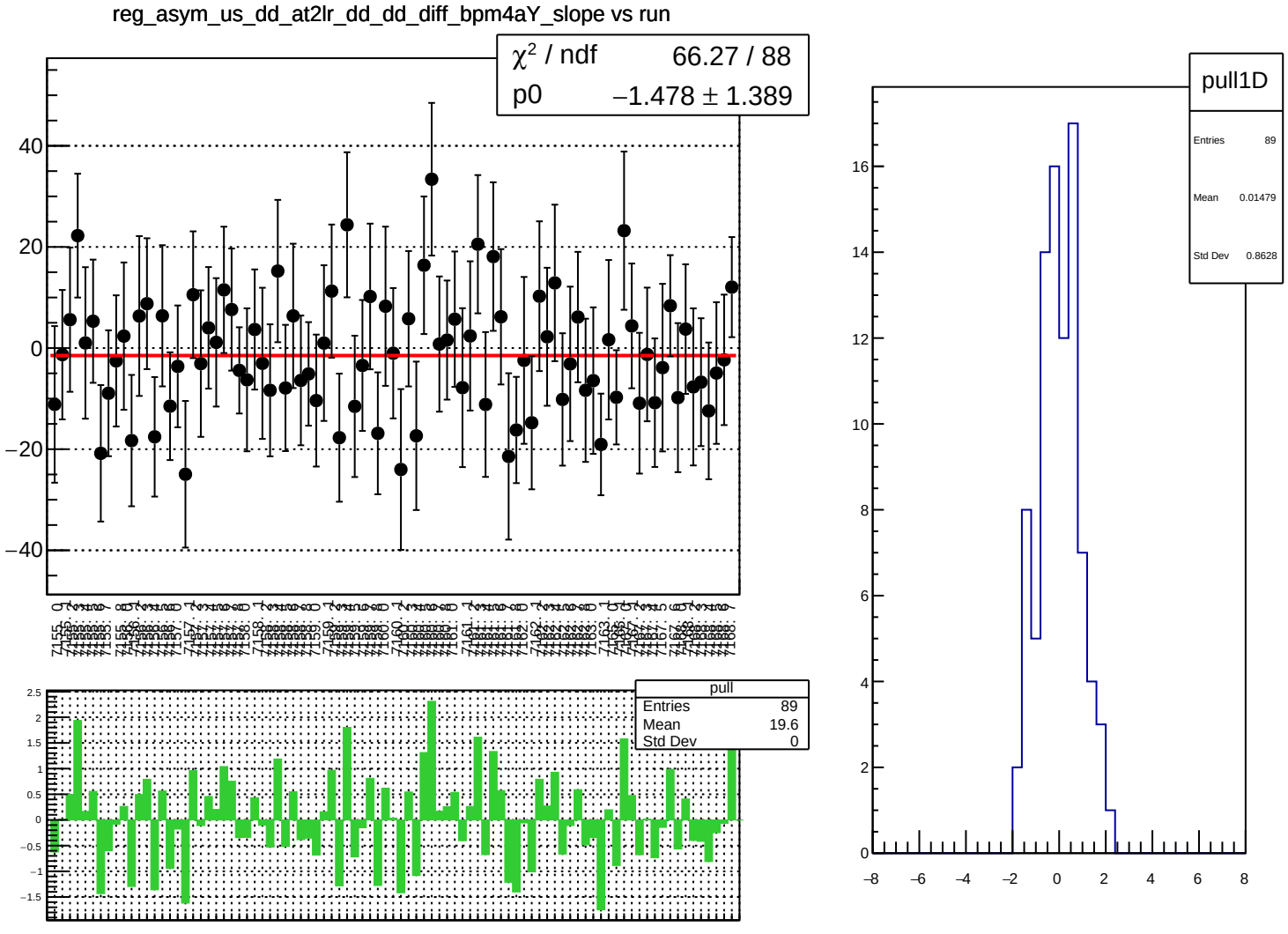

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 109.2 / 88
p0 −106.7 ± 2.584
pull
Entries 89
Mean 277.5
Std Dev 0

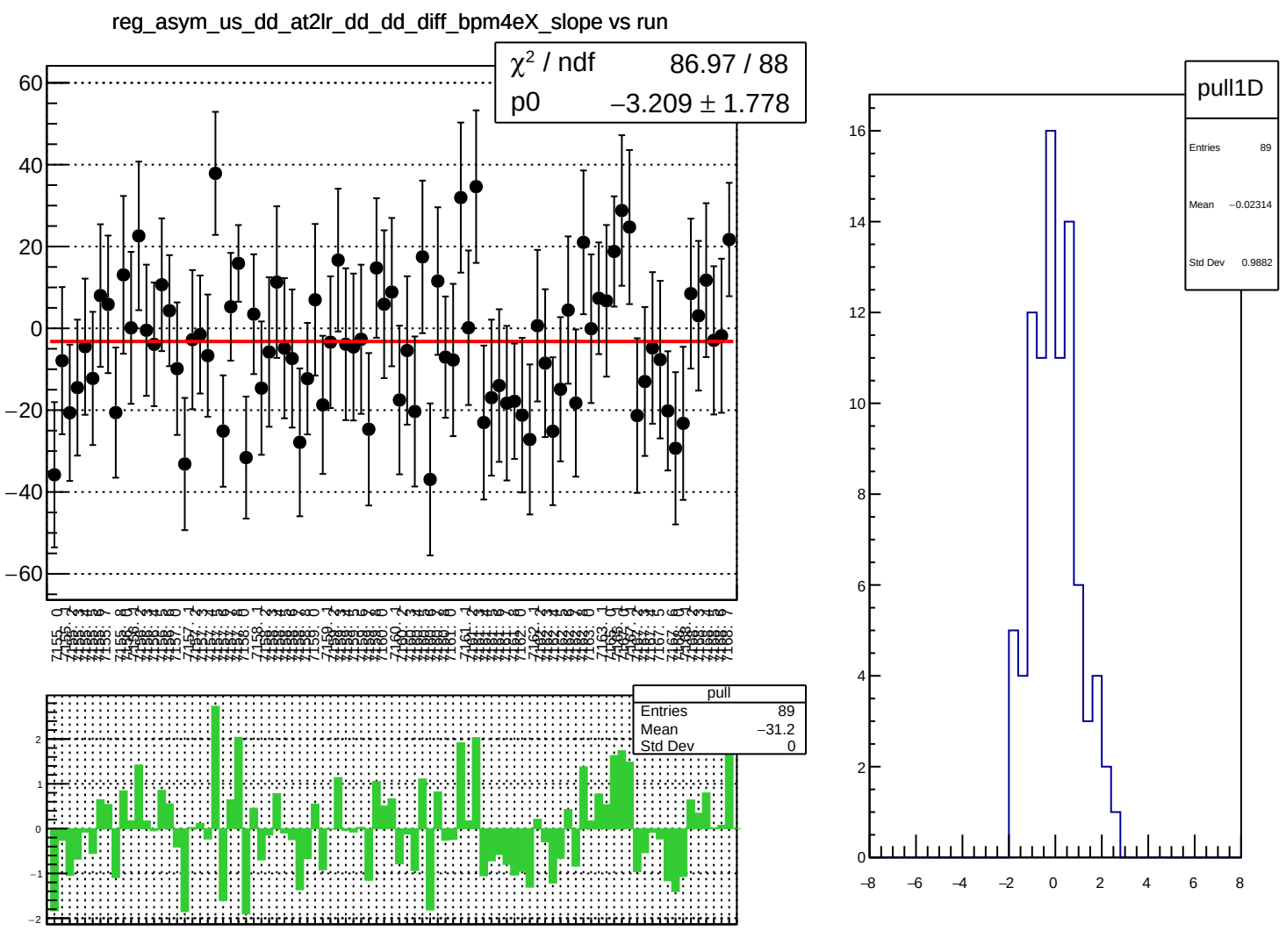

pull1D
Entries 89
Mean −0.05031
Std Dev 1.107

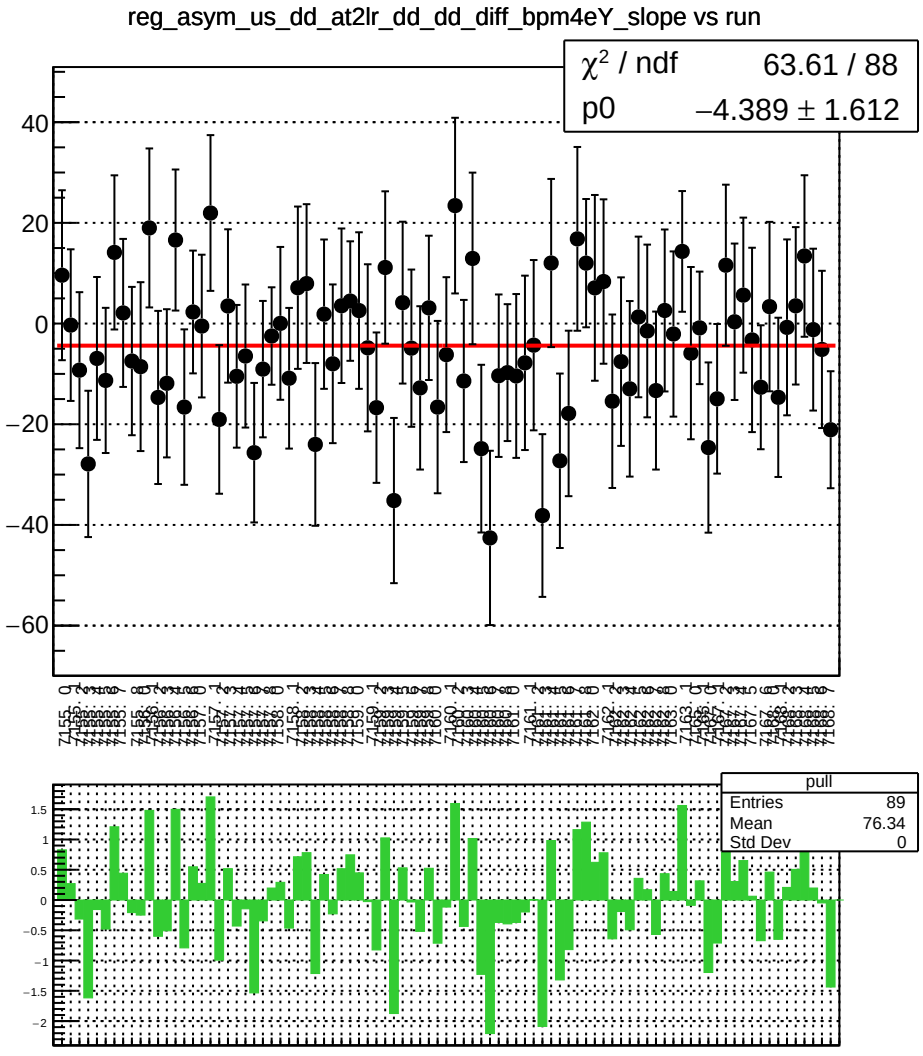

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.86 / 88
p0 0.9144 ± 2.344
pull
Entries 89
Mean 293
Std Dev 0
pull1D
Entries 89
Mean 0.03535
Std Dev 1.037

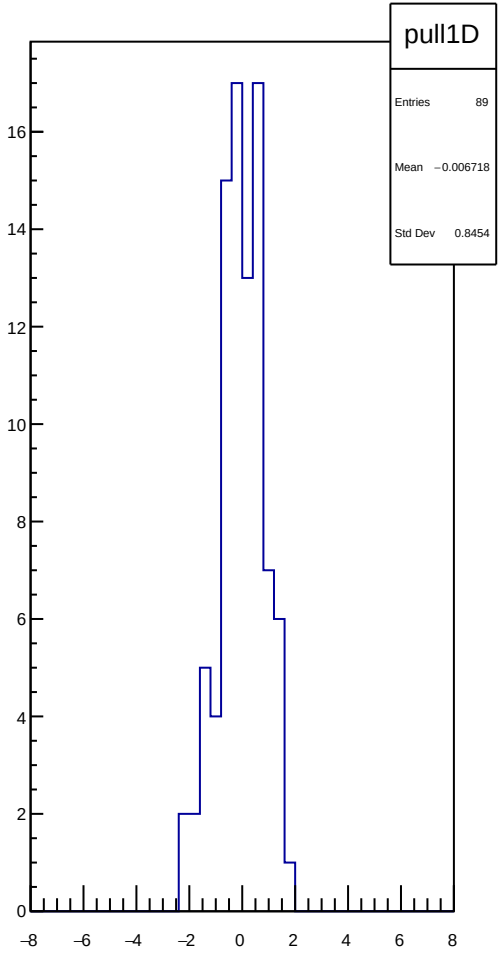

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 86.6 / 88
p0 −13.25 ± 0.08839
pull
Entries 89
Mean 545.8
Std Dev 0
pull1D
Entries 89
Mean 0.01288
Std Dev 0.9863

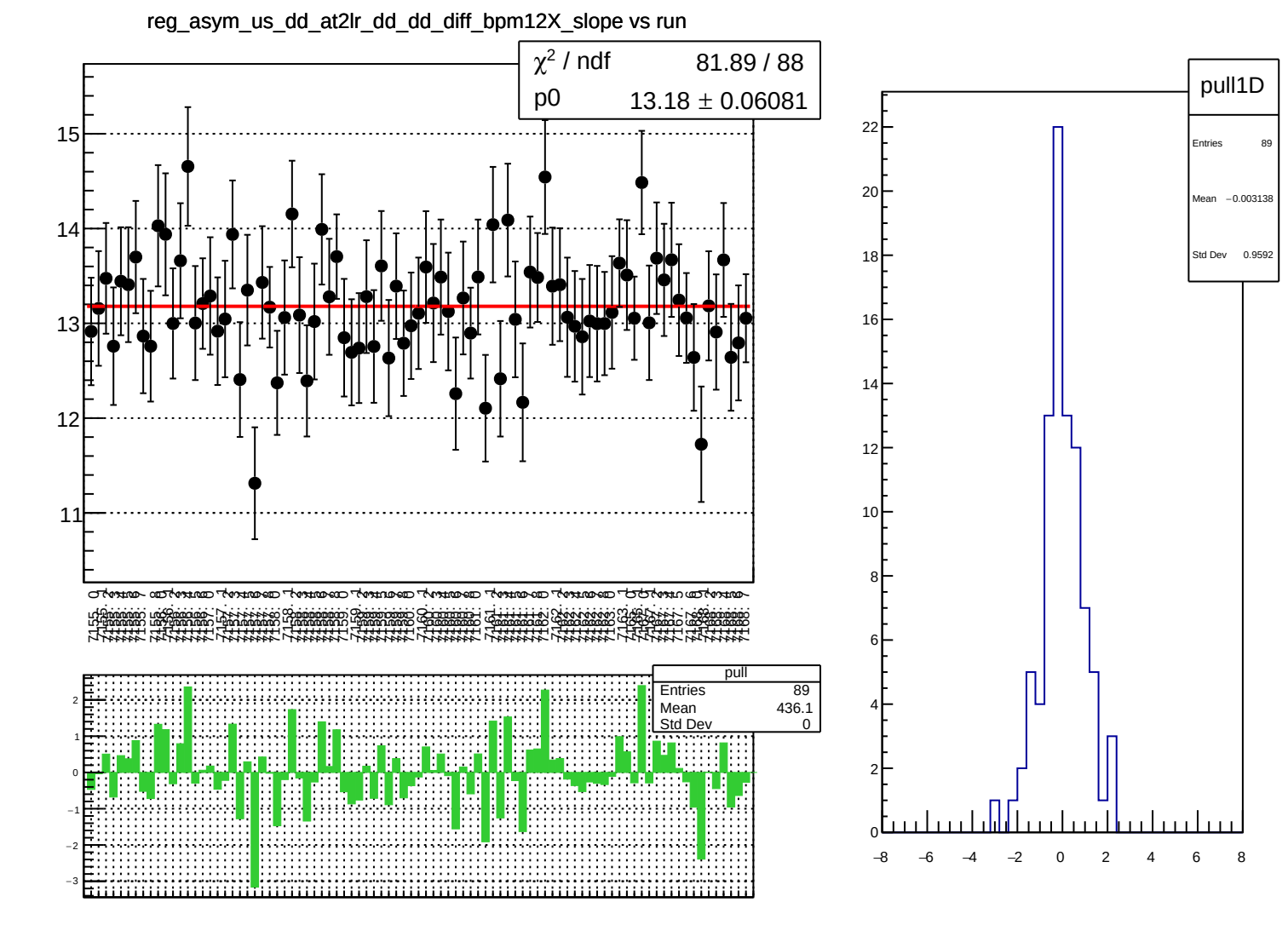

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 86.32 / 88
p0 25.73 ± 1.754
pull
Entries 89
Mean −23.83
Std Dev 0
pull1D
Entries 89
Mean 0.02236
Std Dev 0.9846

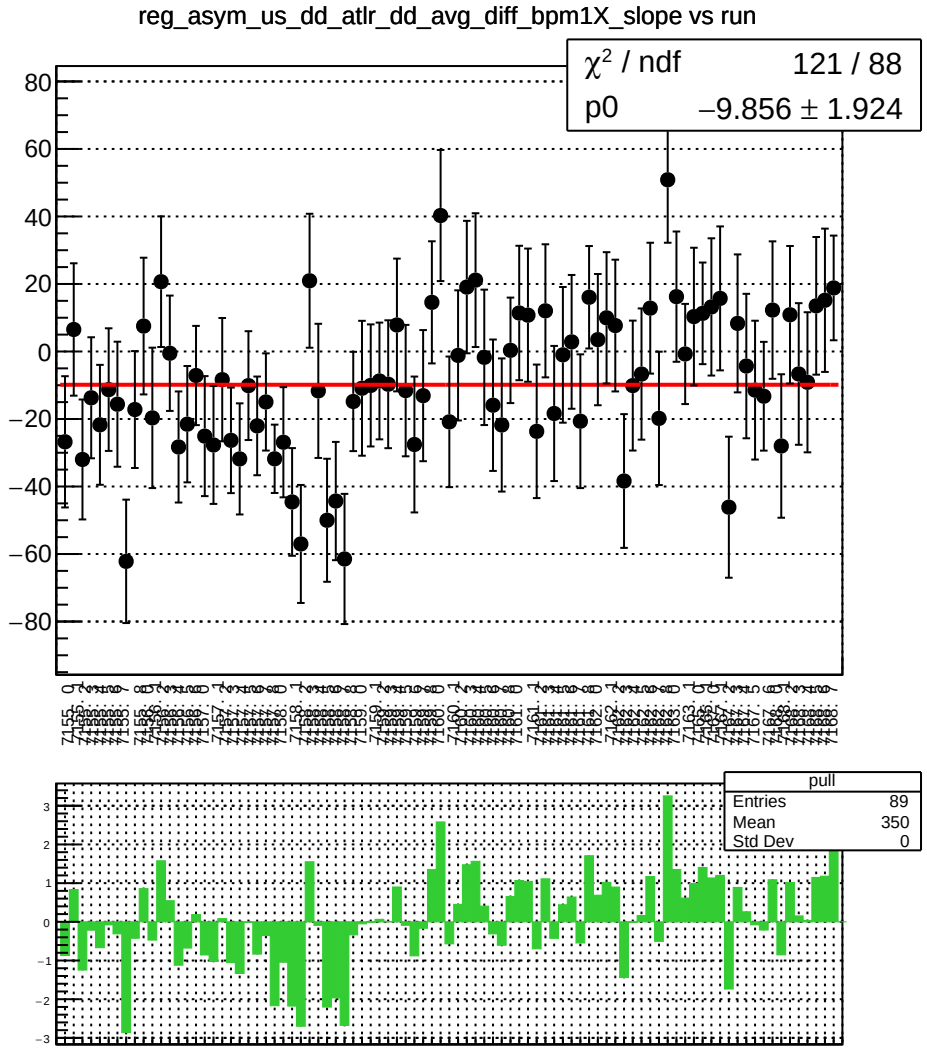

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 66.27 / 88
p0 −1.478 ± 1.389
pull
Entries 89
Mean 19.6
Std Dev 0
pull1D
Entries 89
Mean 0.01479
Std Dev 0.8628

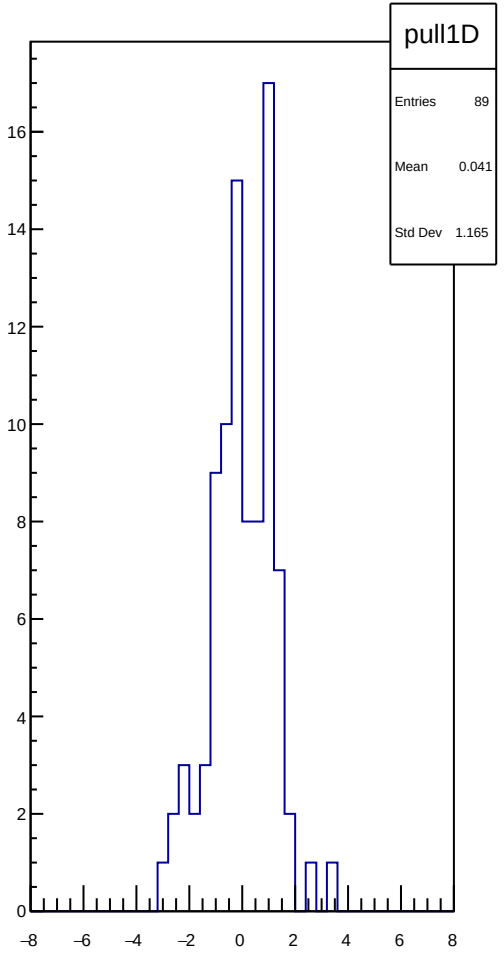

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.97 / 88
p0 −3.209 ± 1.778
pull
Entries 89
Mean −31.2
Std Dev 0
pull1D
Entries 89
Mean −0.02314
Std Dev 0.9882

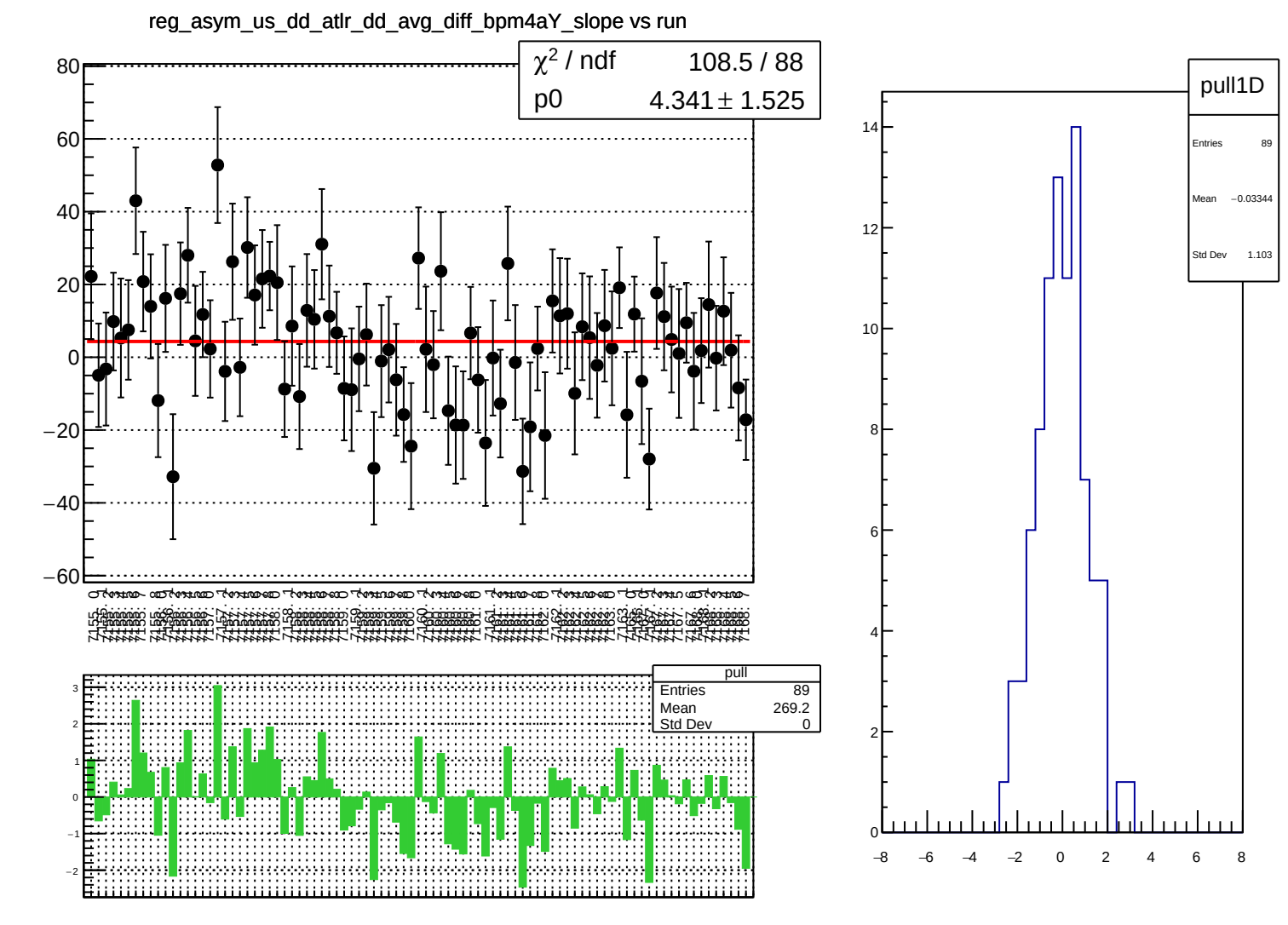

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.61 / 88
p0 −4.389 ± 1.612
pull
Entries 89
Mean 76.34
Std Dev 0

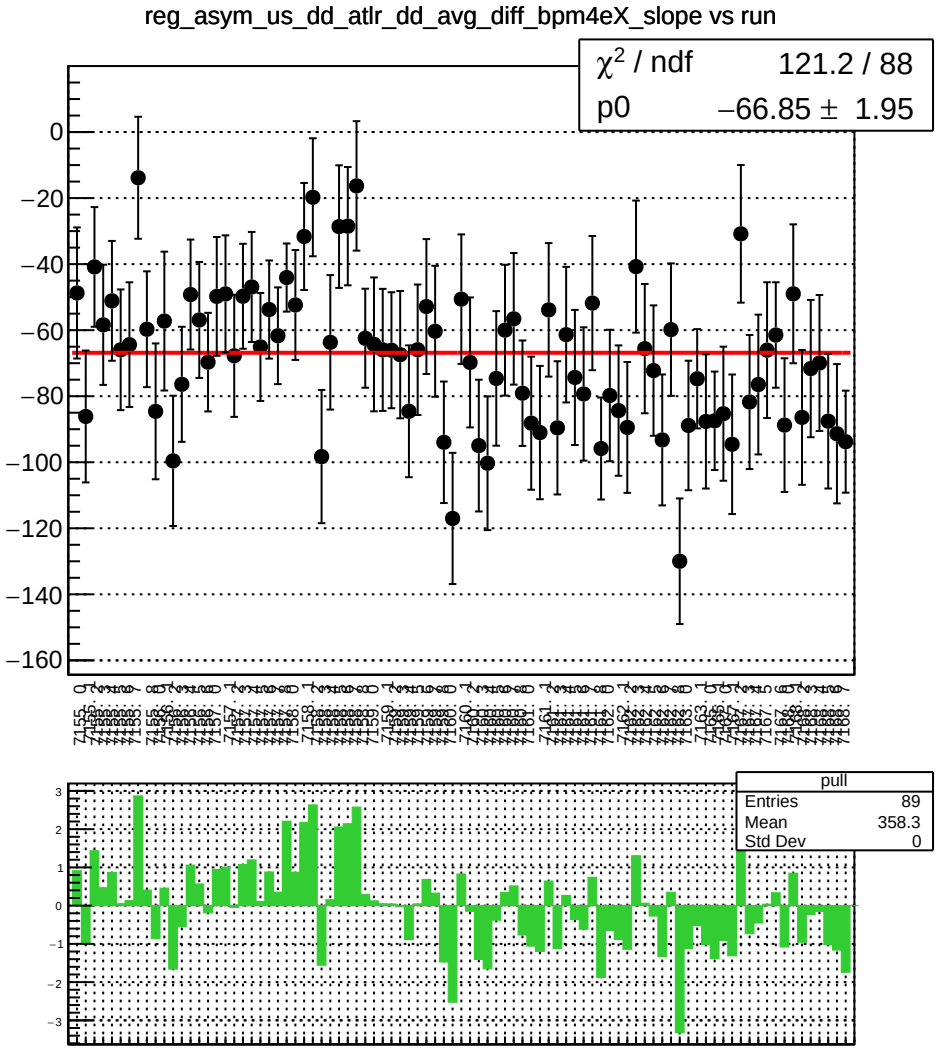

pull1D
Entries 89
Mean −0.006718
Std Dev 0.8454

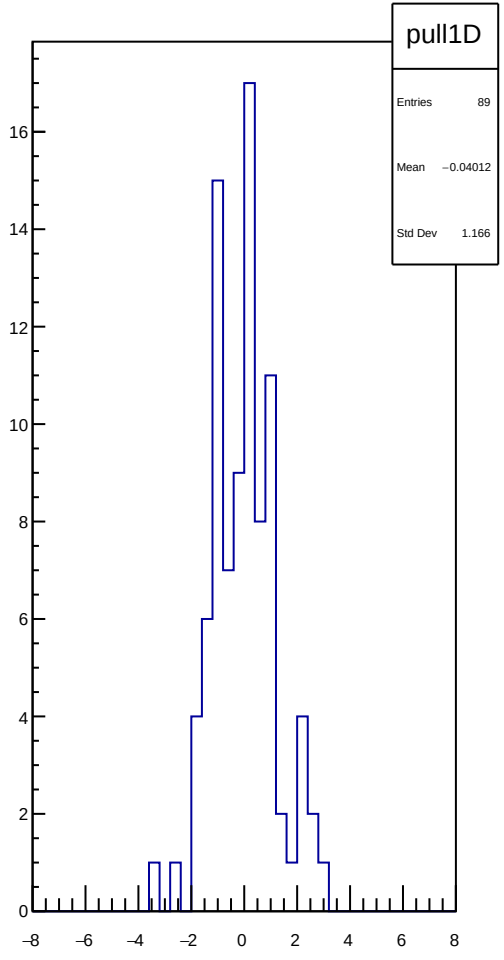

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.89 / 88
p0 13.18 ± 0.06081
pull
Entries 89
Mean 436.1
Std Dev 0
pull1D
Entries 89
Mean −0.003138
Std Dev 0.9592

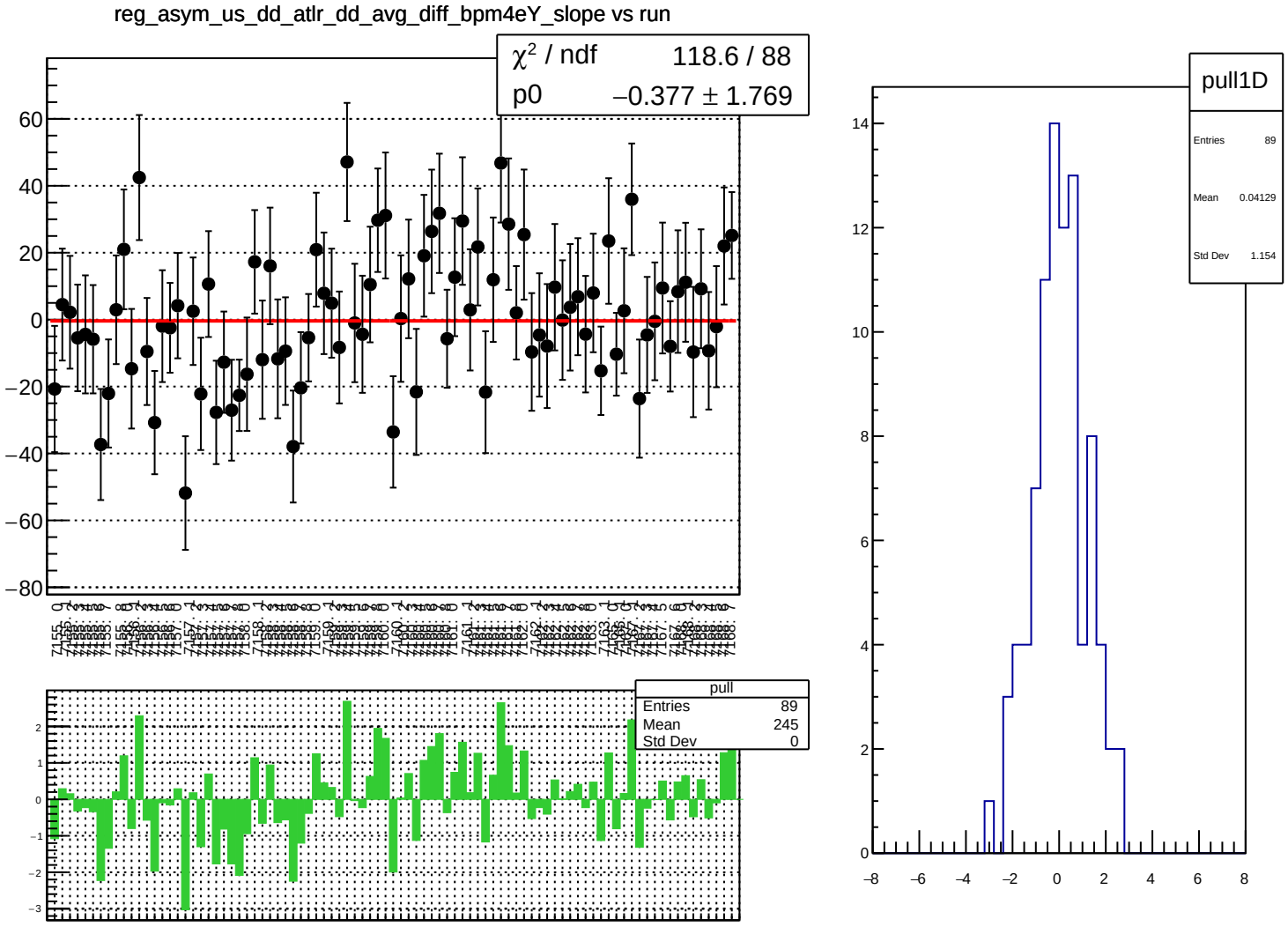

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 121 / 88
p0 −9.856 ± 1.924
pull
Entries 89
Mean 350
Std Dev 0

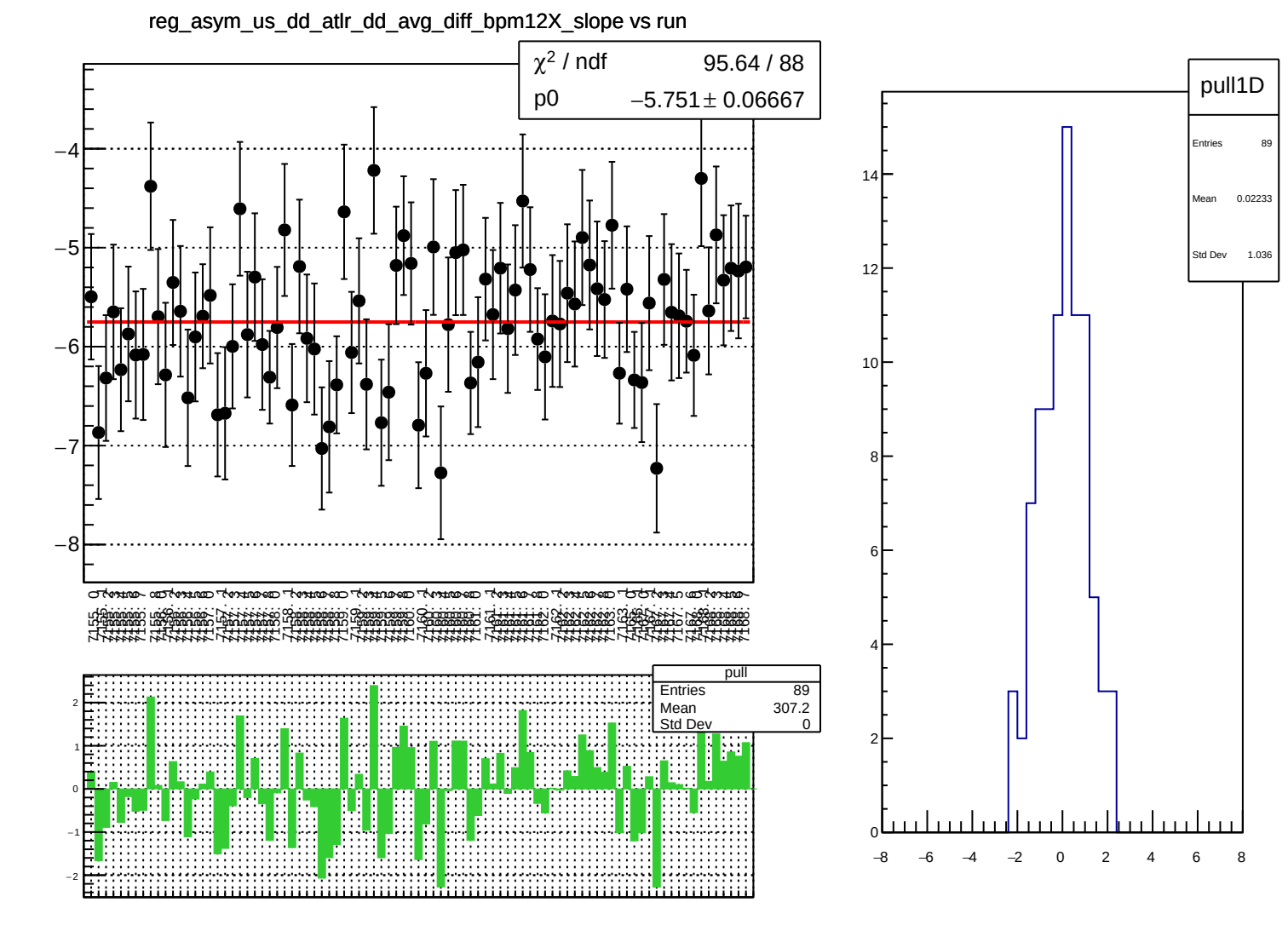

pull1D
Entries 89
Mean 0.041
Std Dev 1.165

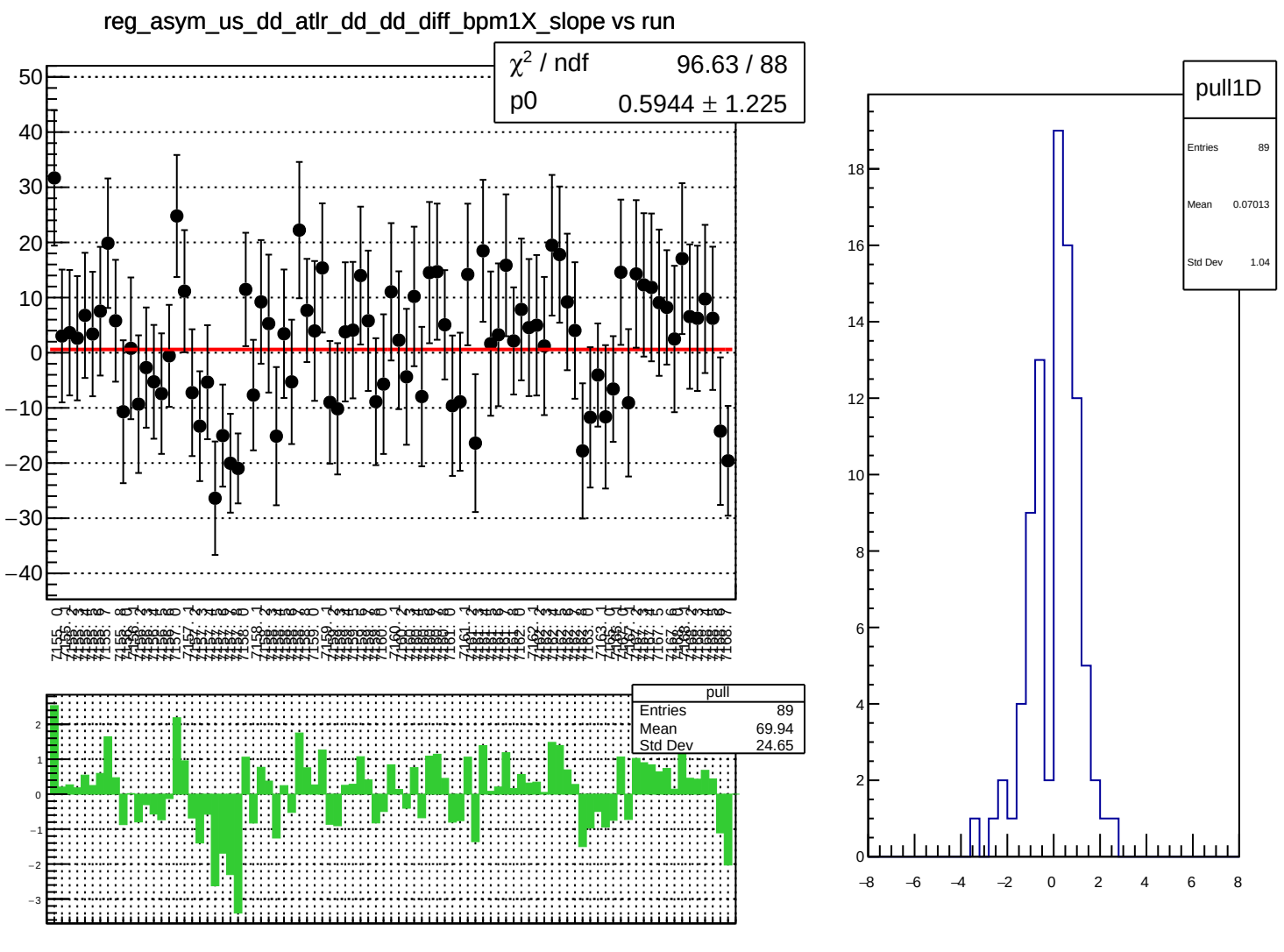

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 108.5 / 88
p0 4.341 ± 1.525
pull
Entries 89
Mean 269.2
Std Dev 0
pull1D
Entries 89
Mean −0.03344
Std Dev 1.103

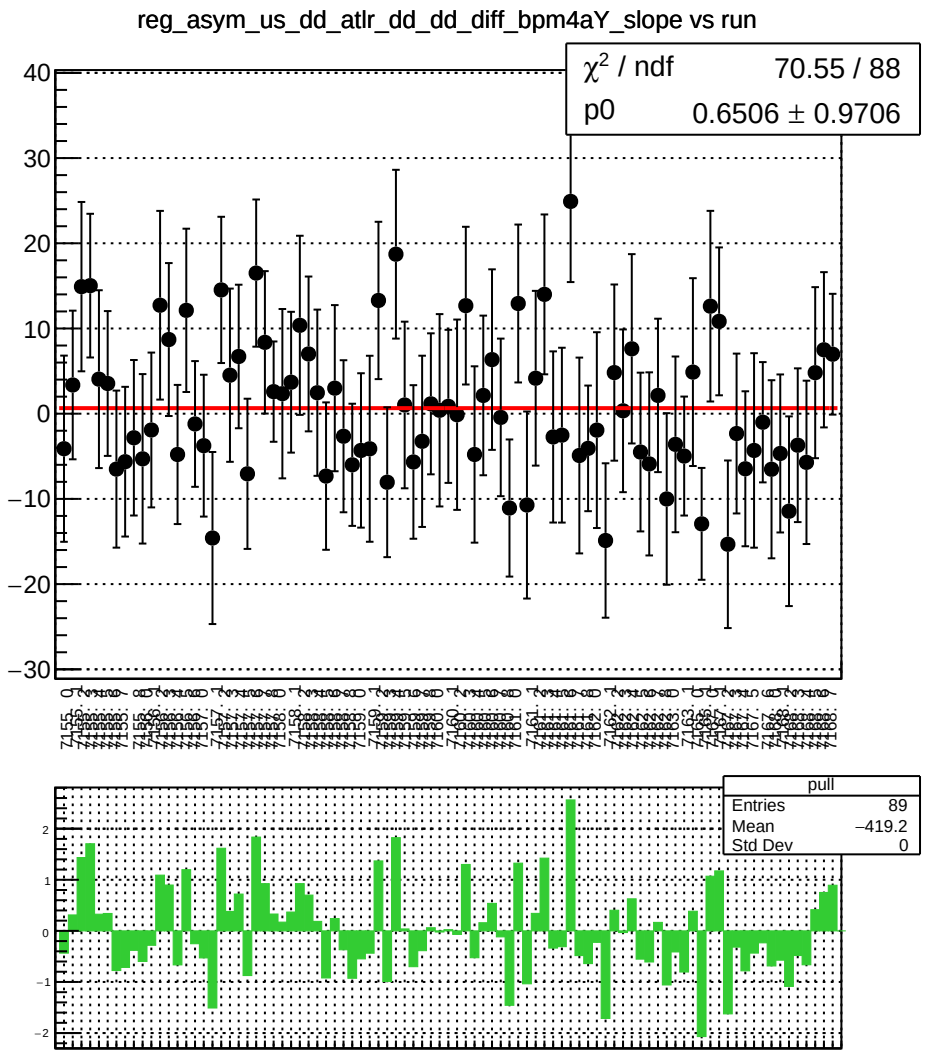

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.2 / 88
p0 −66.85 ± 1.95
pull
Entries 89
Mean 358.3
Std Dev 0

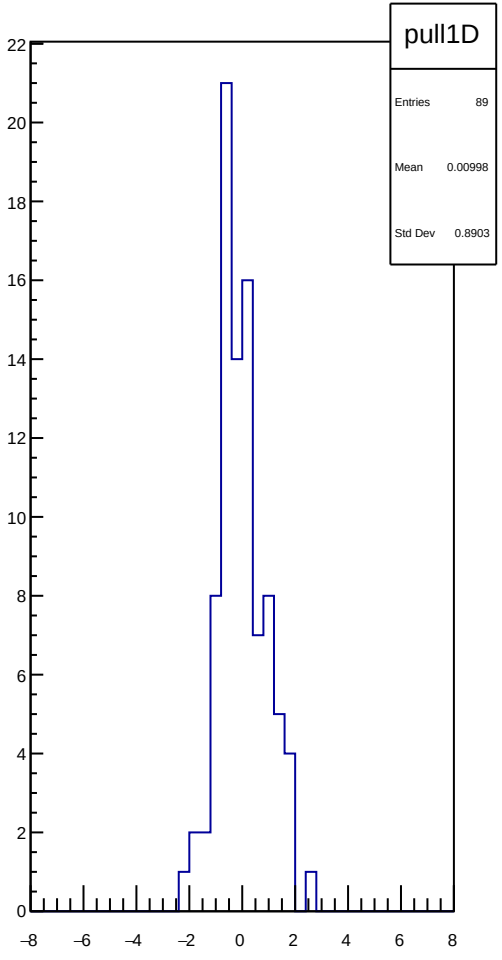

pull1D
Entries 89
Mean −0.04012
Std Dev 1.166

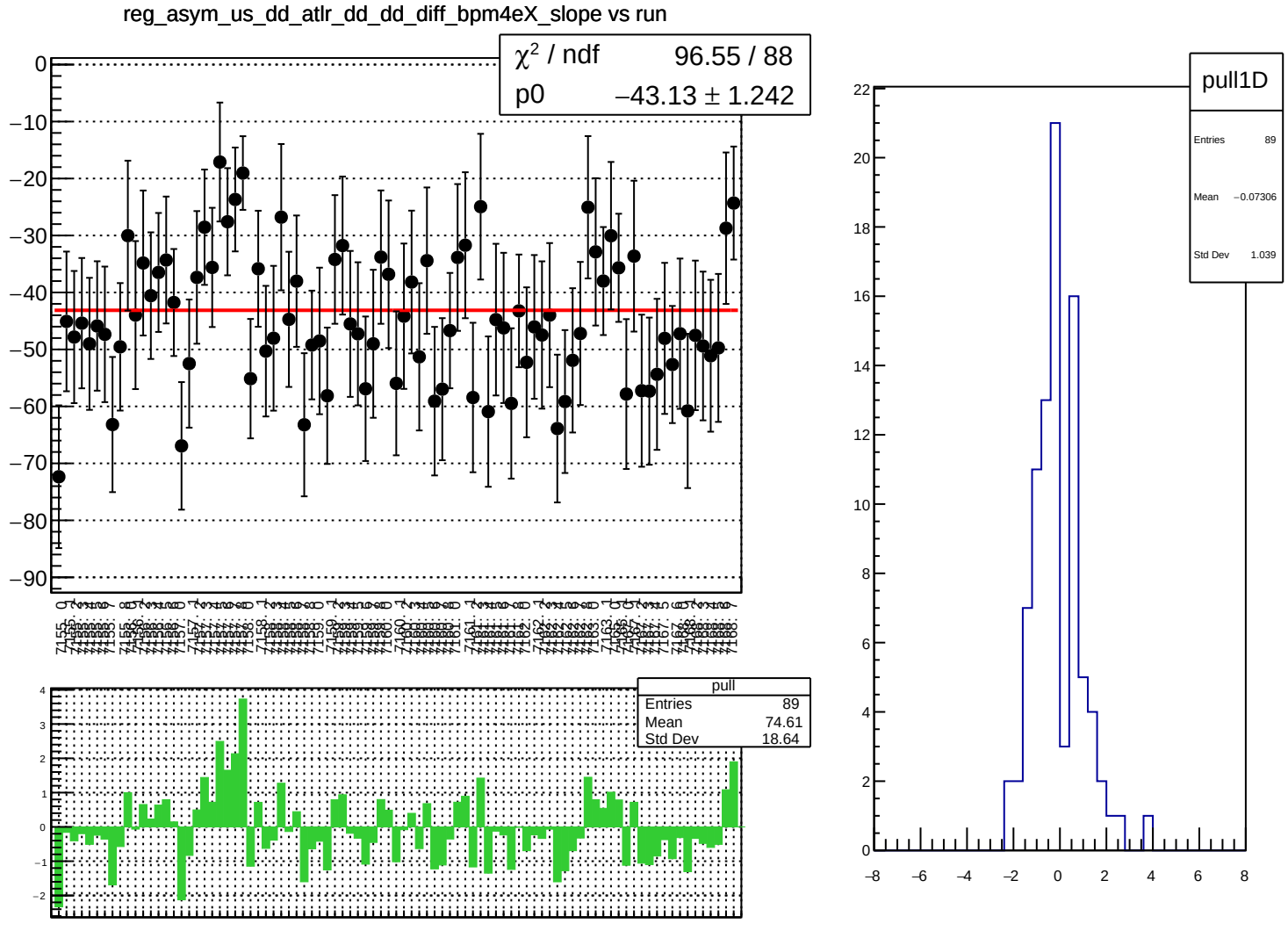

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 118.6 / 88
p0 −0.377 ± 1.769
pull
Entries 89
Mean 245
Std Dev 0
pull1D
Entries 89
Mean 0.04129
Std Dev 1.154

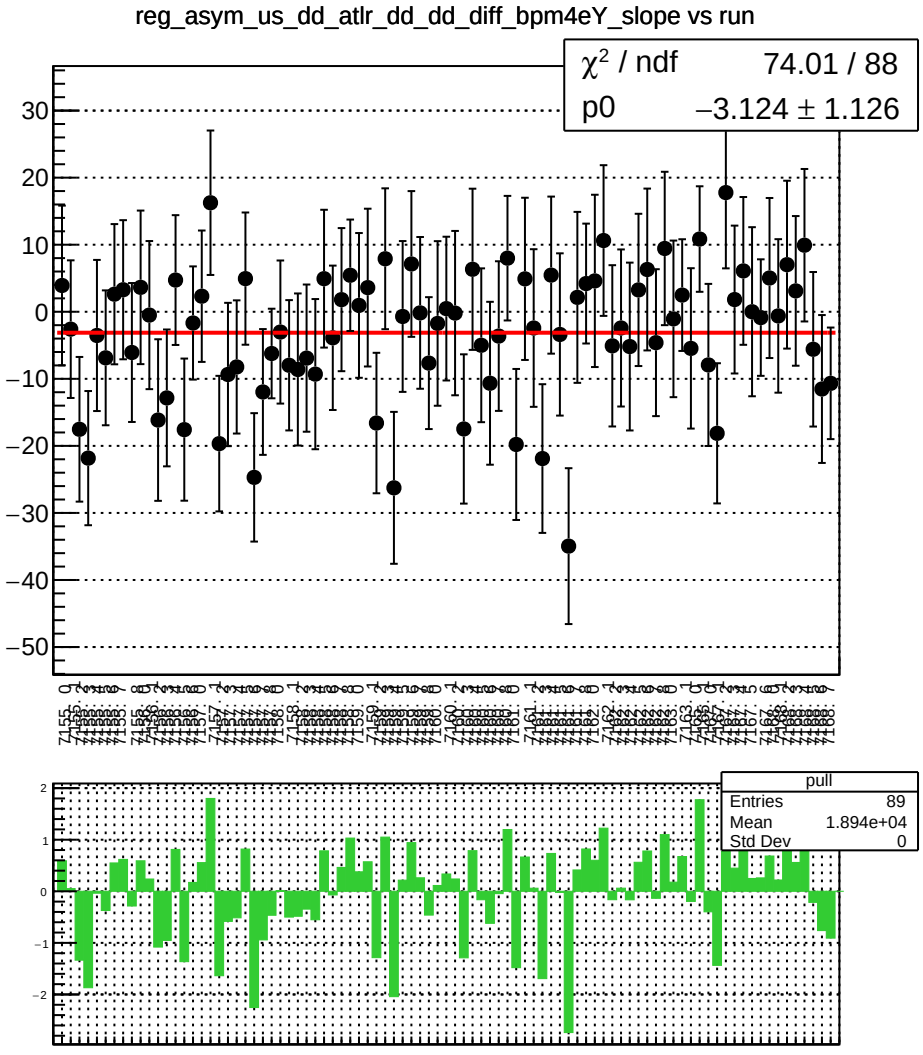

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 95.64 / 88
p0 −5.751 ± 0.06667
pull
Entries 89
Mean 307.2
Std Dev 0
pull1D
Entries 89
Mean 0.02233
Std Dev 1.036

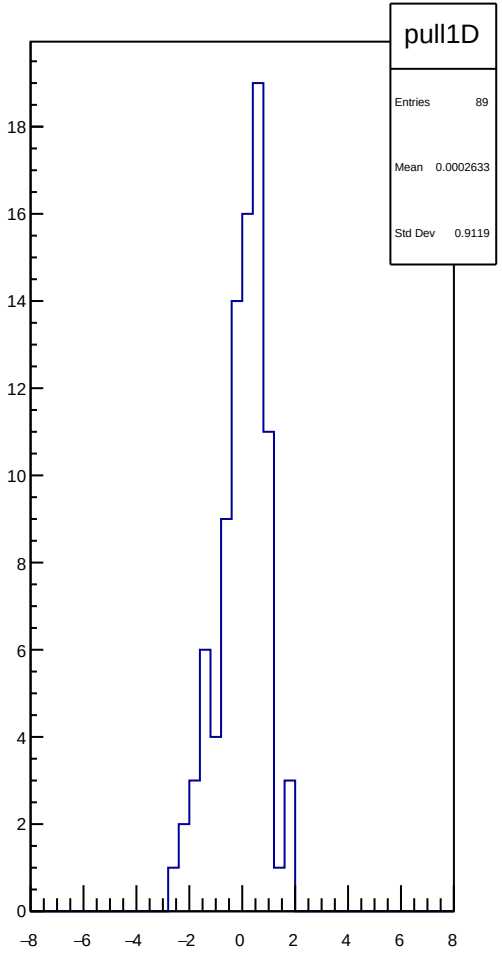

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 96.63 / 88
p0 0.5944 ± 1.225
pull
Entries 89
Mean 69.94
Std Dev 24.65
pull1D
Entries 89
Mean 0.07013
Std Dev 1.04

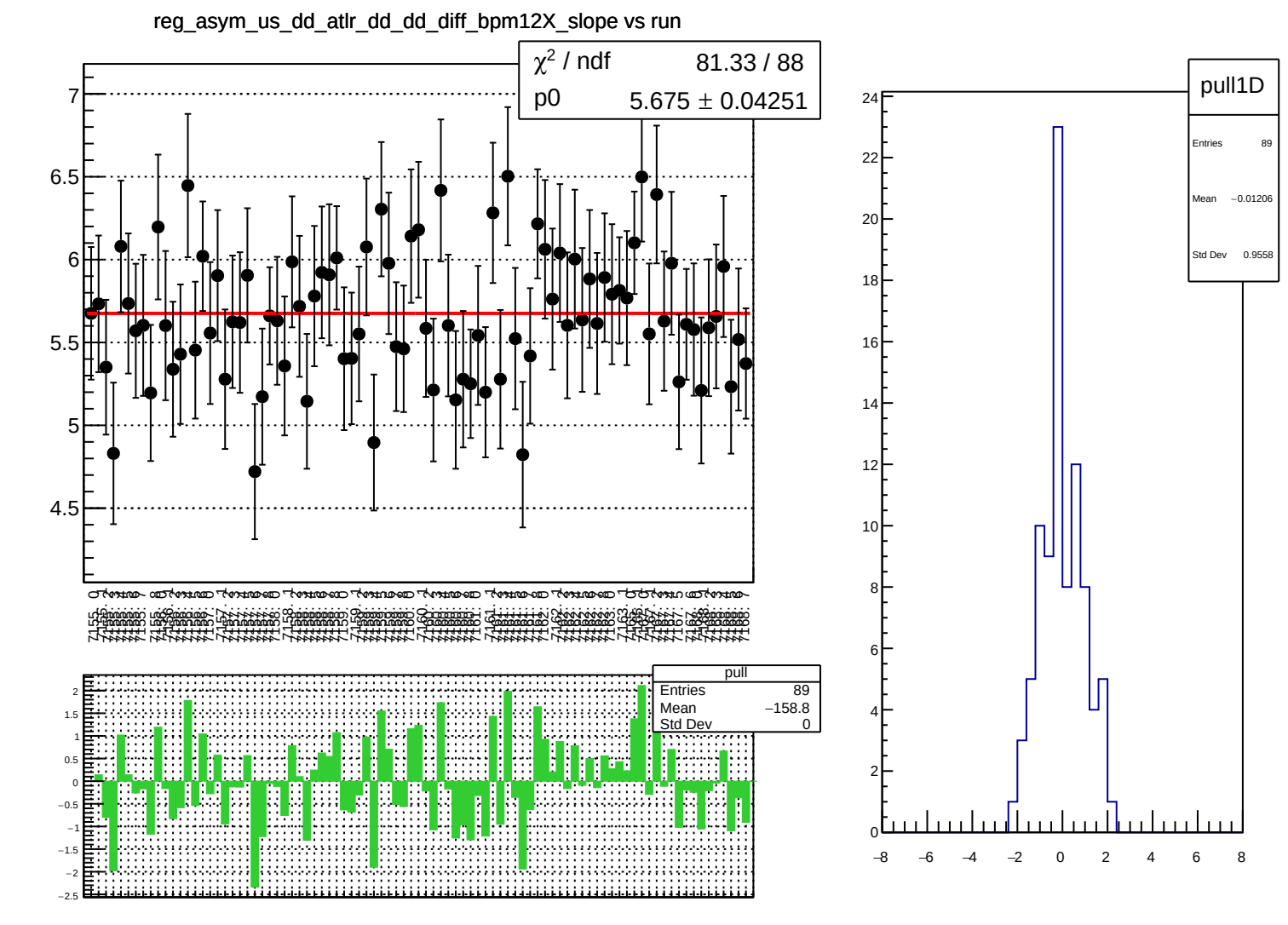

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 70.55 / 88
p0 0.6506 ± 0.9706
pull
Entries 89
Mean −419.2
Std Dev 0

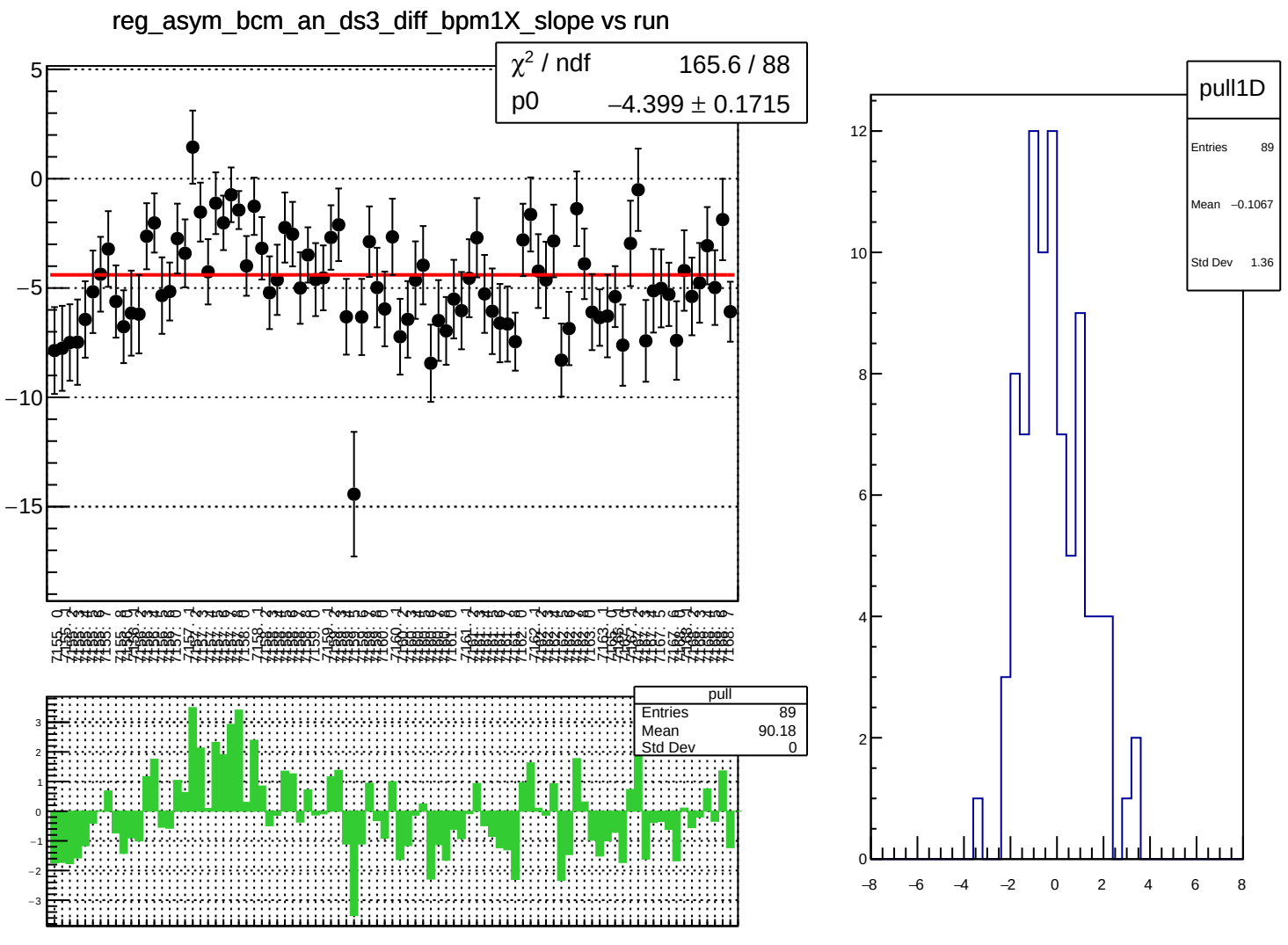

pull1D
Entries 89
Mean 0.00998
Std Dev 0.8903

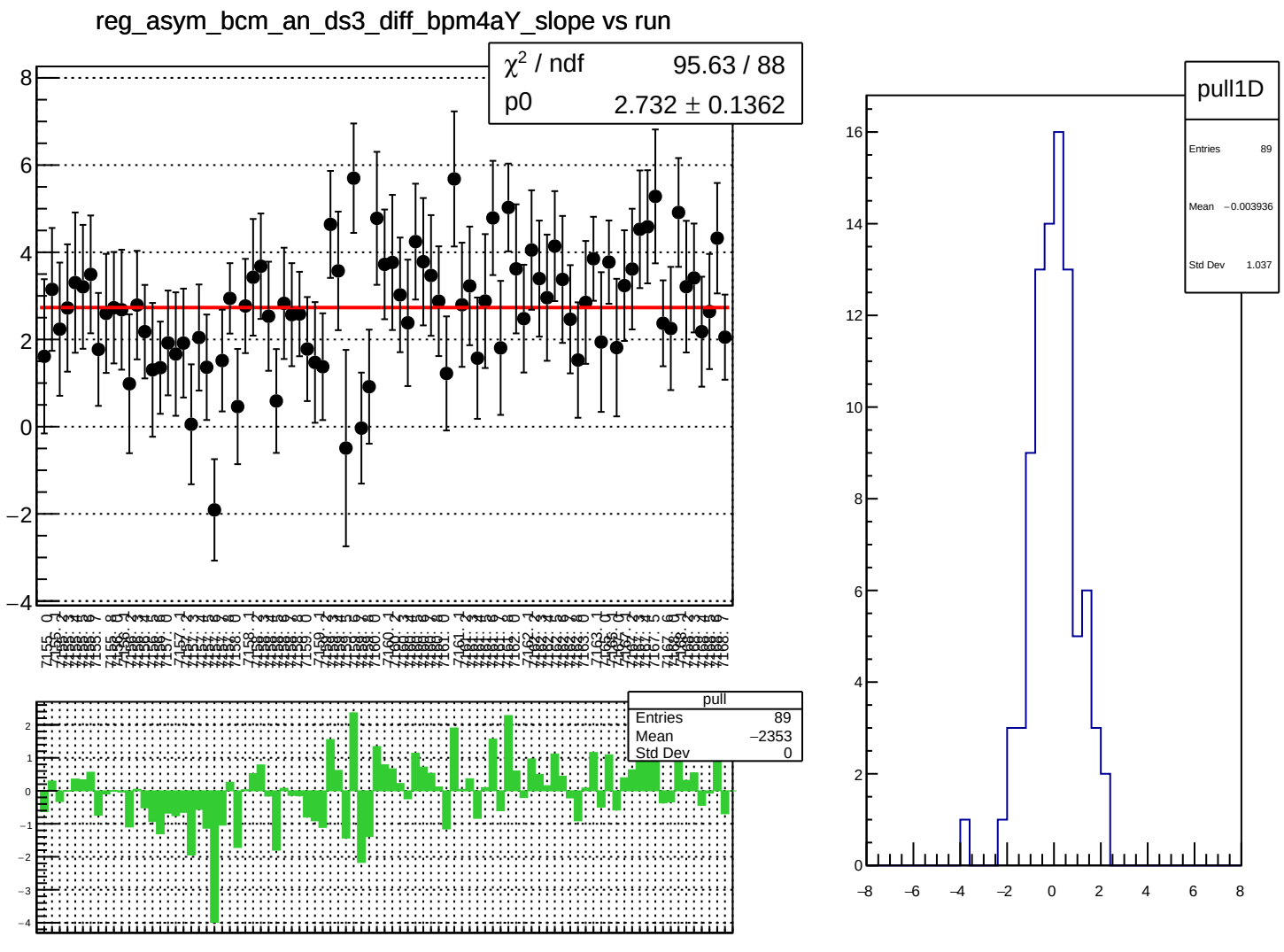

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 96.55 / 88
p0 −43.13 ± 1.242
pull
Entries 89
Mean 74.61
Std Dev 18.64
pull1D
Entries 89
Mean −0.07306
Std Dev 1.039

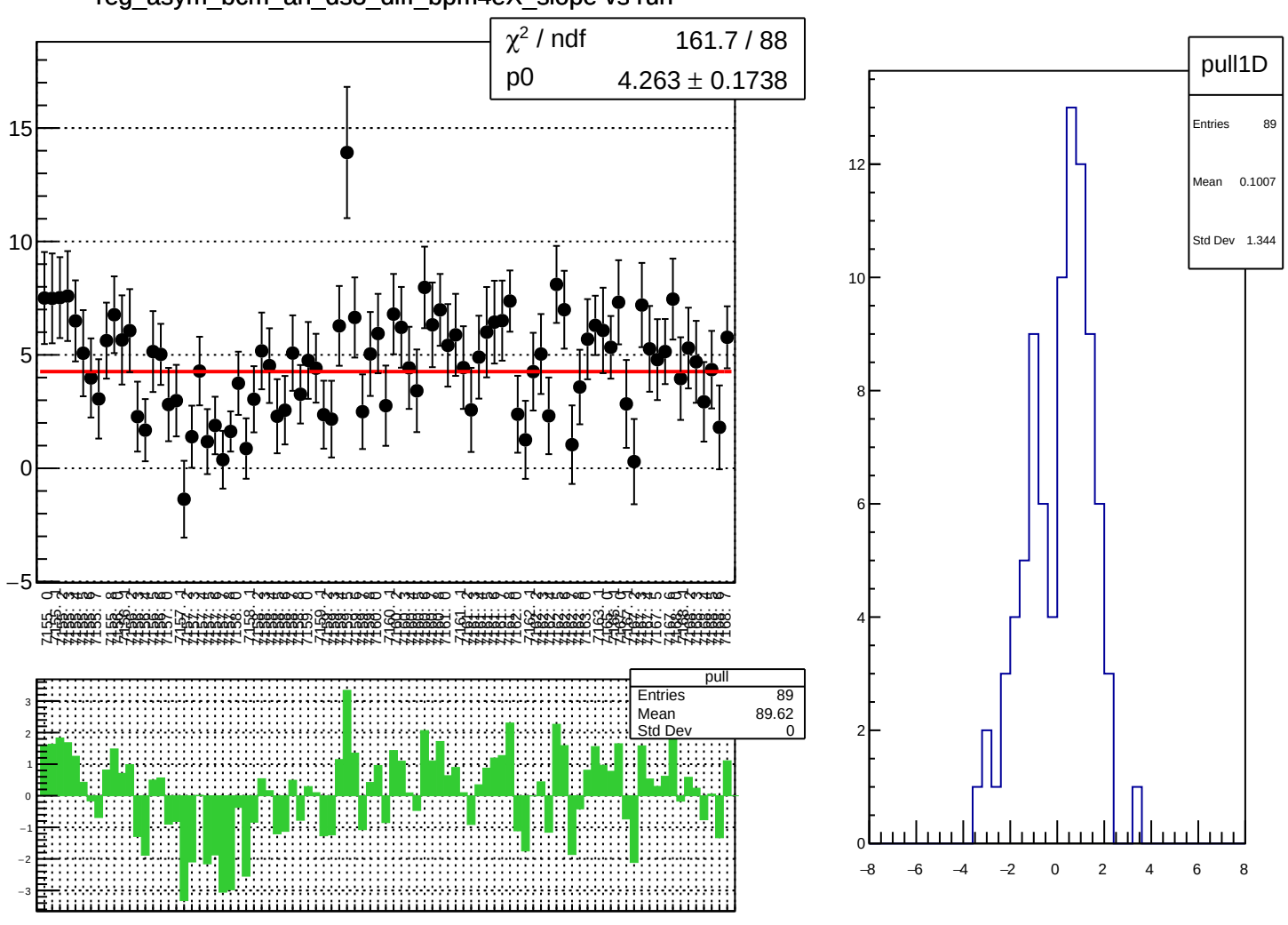

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.01 / 88
p0 −3.124 ± 1.126
pull
Entries 89
Mean 1.894e+04
Std Dev 0

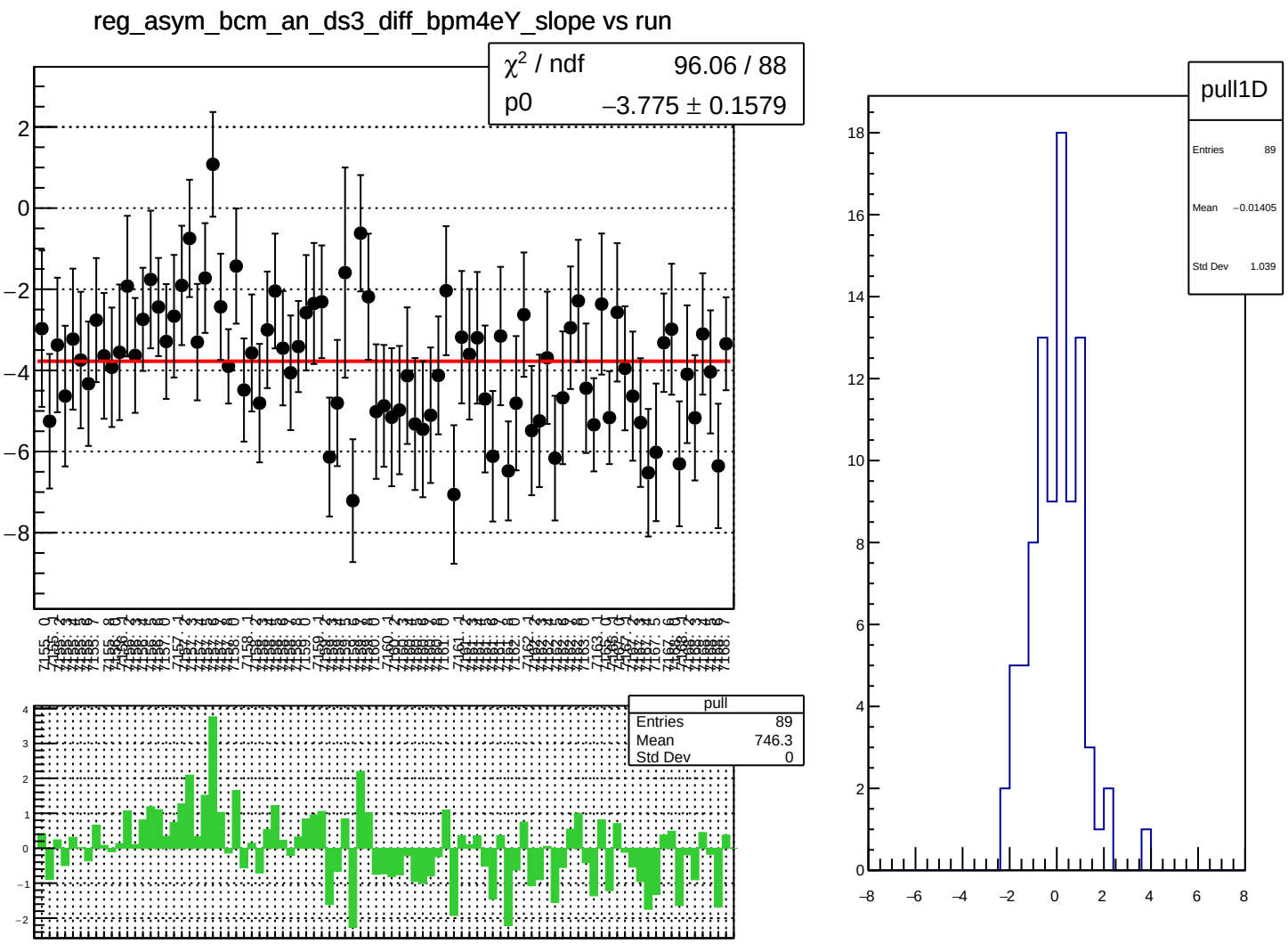

pull1D
Entries 89
Mean 0.0002633
Std Dev 0.9119

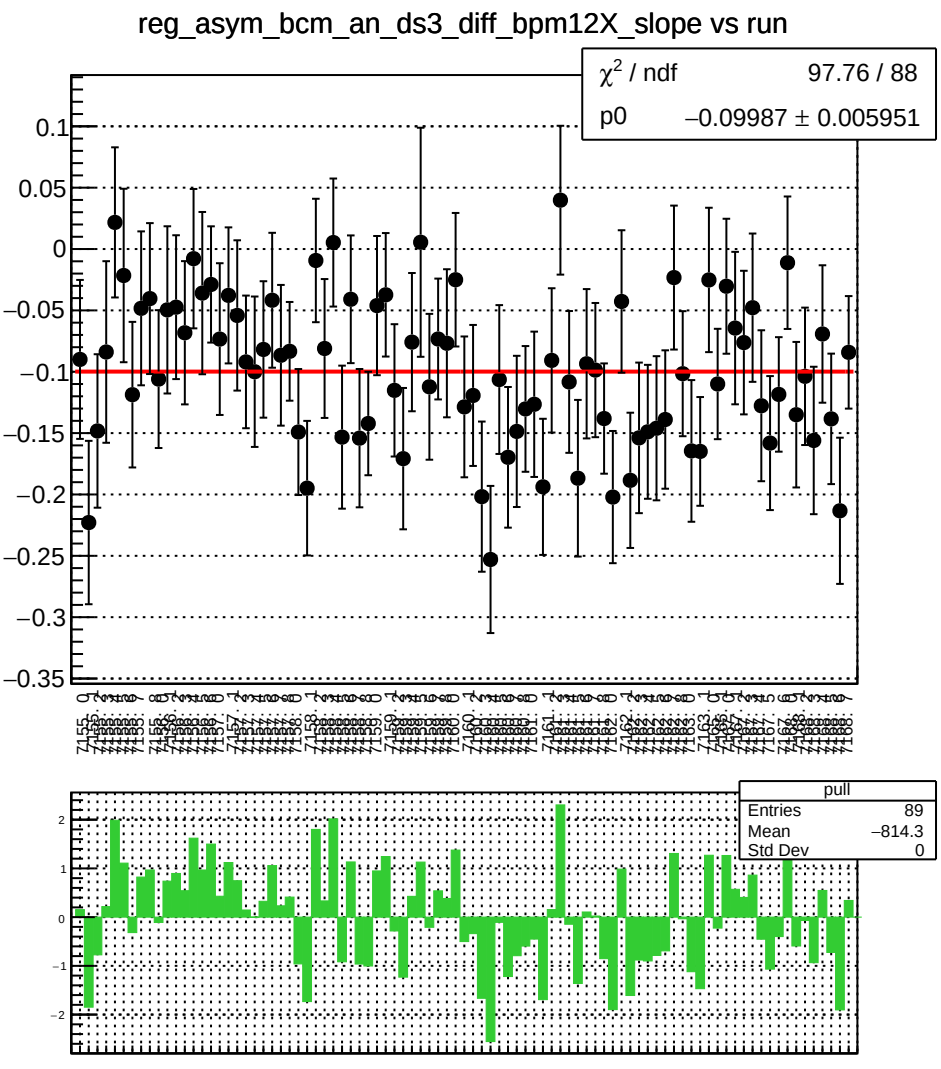

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 81.33 / 88
p0 5.675 ± 0.04251
pull
Entries 89
Mean −158.8
Std Dev 0
pull1D
Entries 89
Mean −0.01206
Std Dev 0.9558

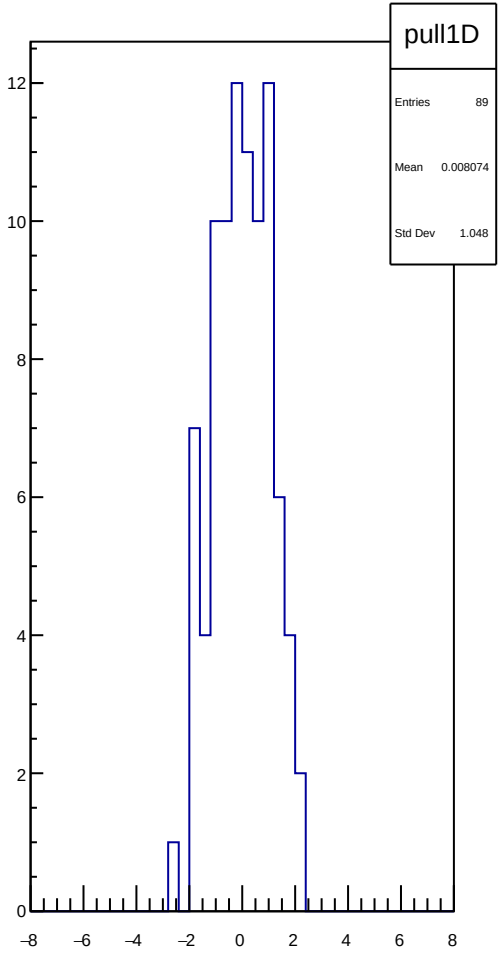

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 165.6 / 88
p0 −4.399 ± 0.1715
pull
Entries 89
Mean 90.18
Std Dev 0
pull1D
Entries 89
Mean −0.1067
Std Dev 1.36

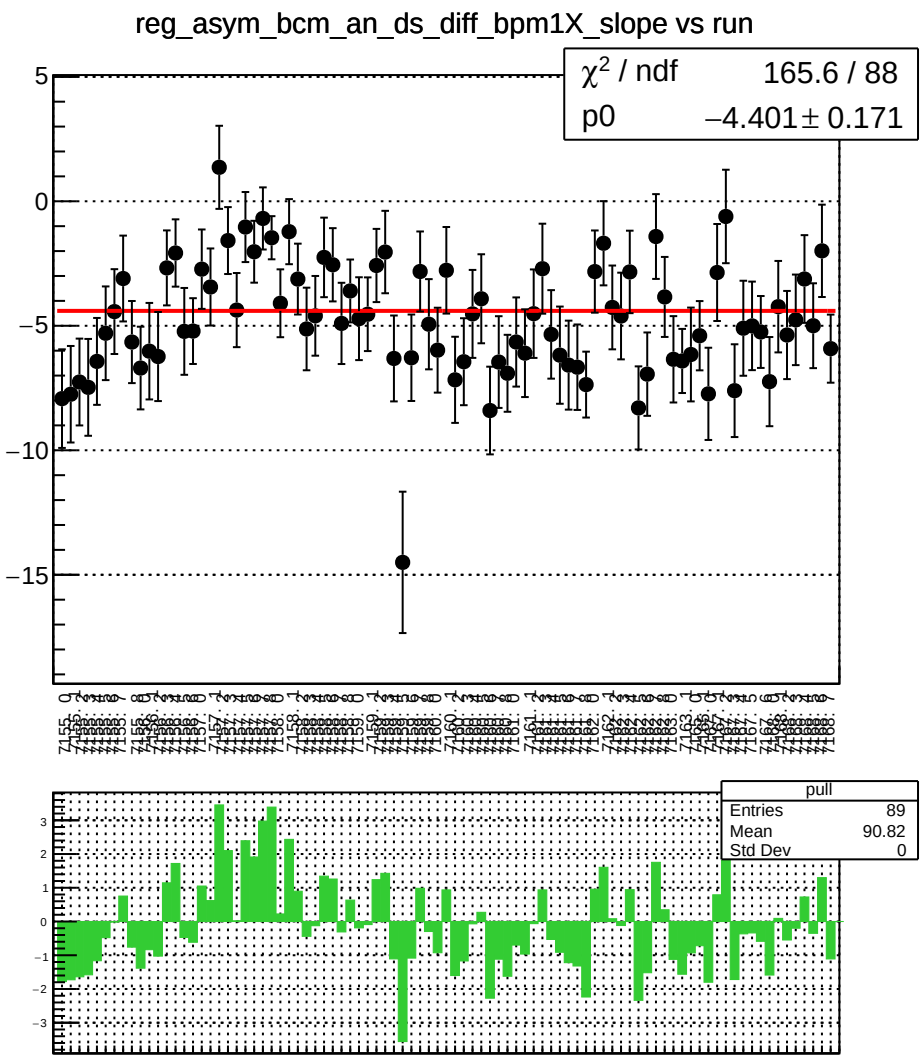

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 95.63 / 88
p0 2.732 ± 0.1362
pull
Entries 89
Mean −2353
Std Dev 0
pull1D
Entries 89
Mean −0.003936
Std Dev 1.037

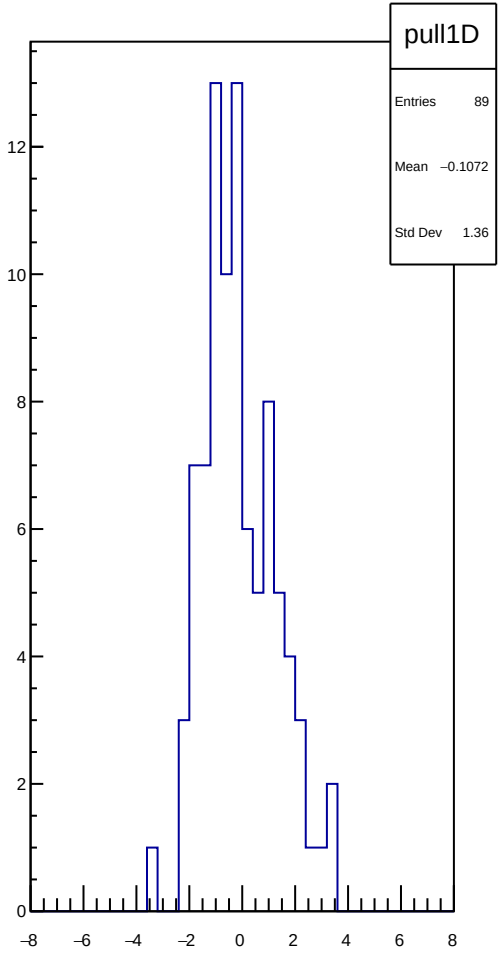

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 161.7 / 88
p0 4.263 ± 0.1738
pull
Entries 89
Mean 89.62
Std Dev 0
pull1D
Entries 89
Mean 0.1007
Std Dev 1.344

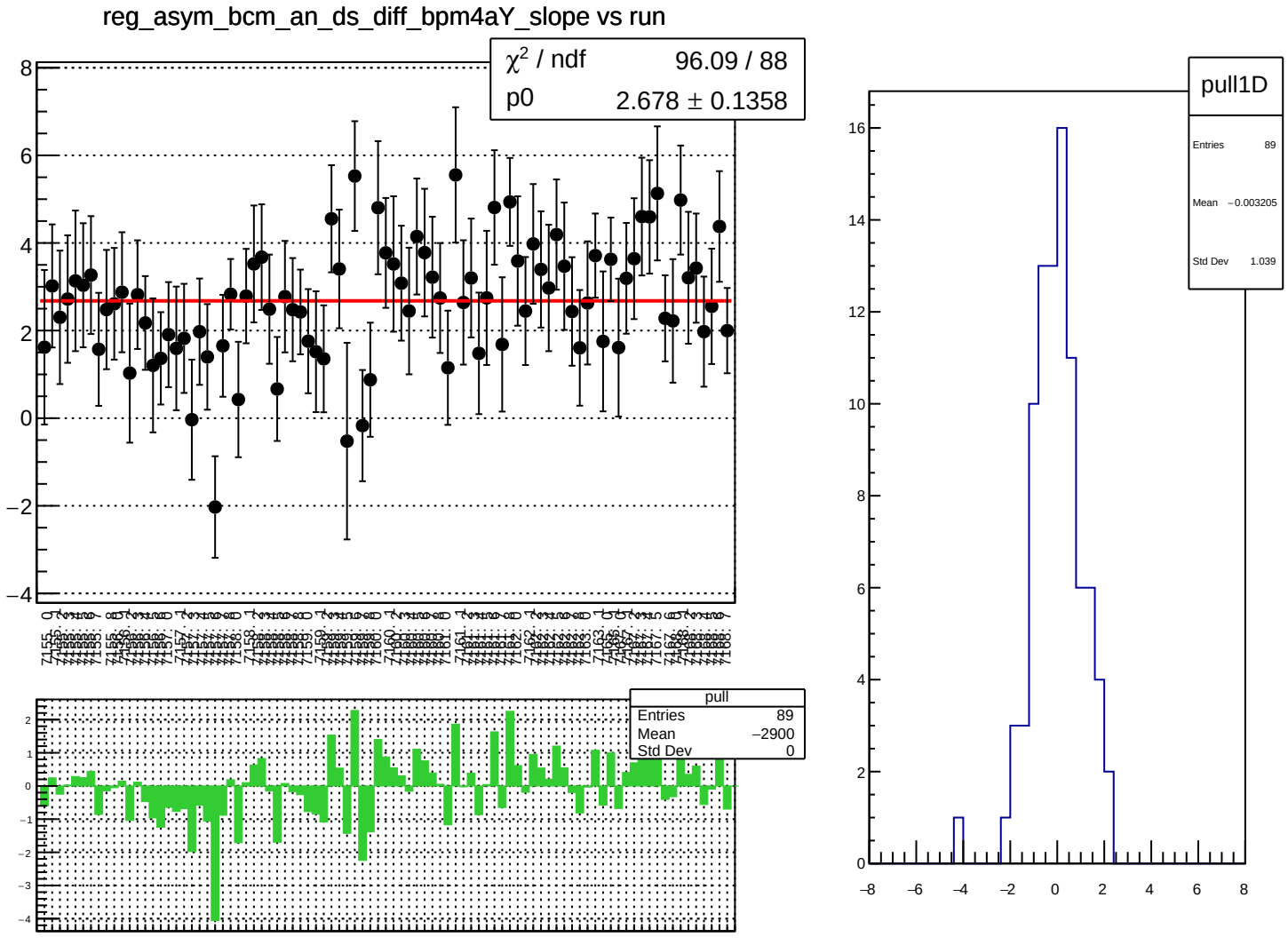

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 96.06 / 88
p0 −3.775 ± 0.1579
pull
Entries 89
Mean 746.3
Std Dev 0
pull1D
Entries 89
Mean −0.01405
Std Dev 1.039

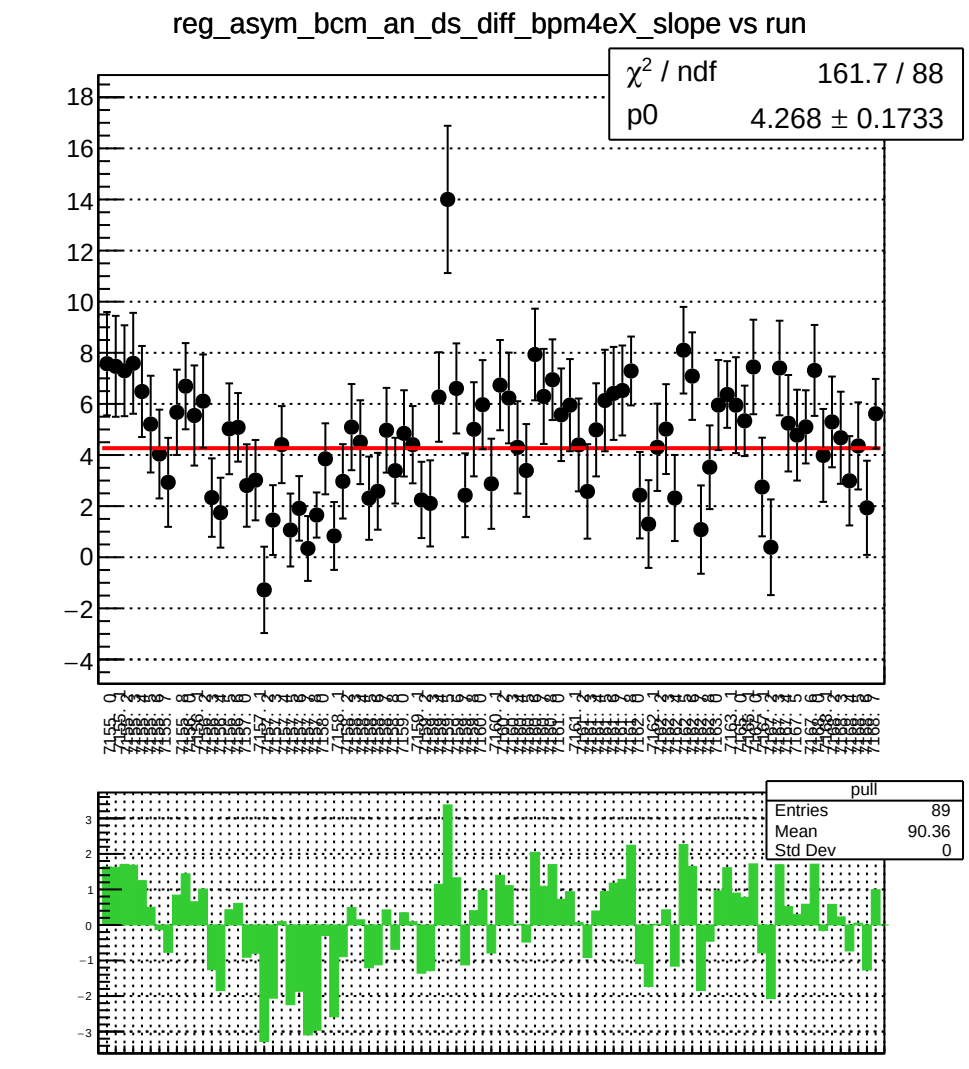

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 97.76 / 88
p0 −0.09987 ± 0.005951
pull
Entries 89
Mean −814.3
Std Dev 0

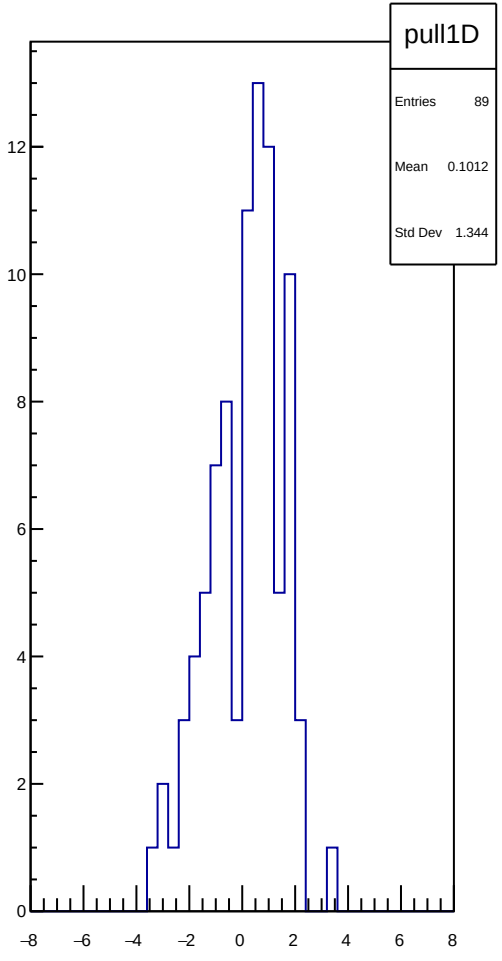

pull1D
Entries 89
Mean 0.008074
Std Dev 1.048

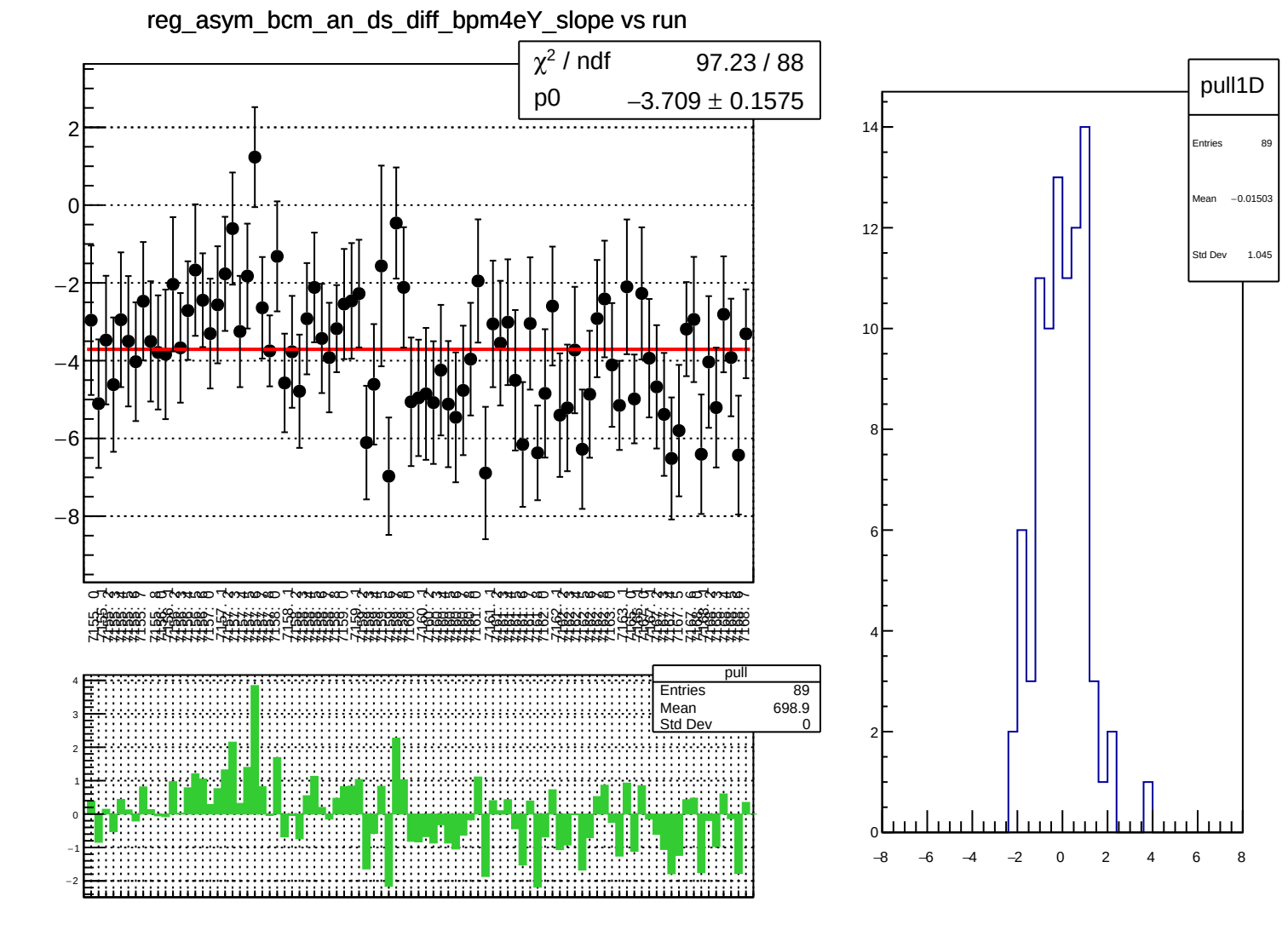

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 165.6 / 88
p0 −4.401 ± 0.171
pull
Entries 89
Mean 90.82
Std Dev 0

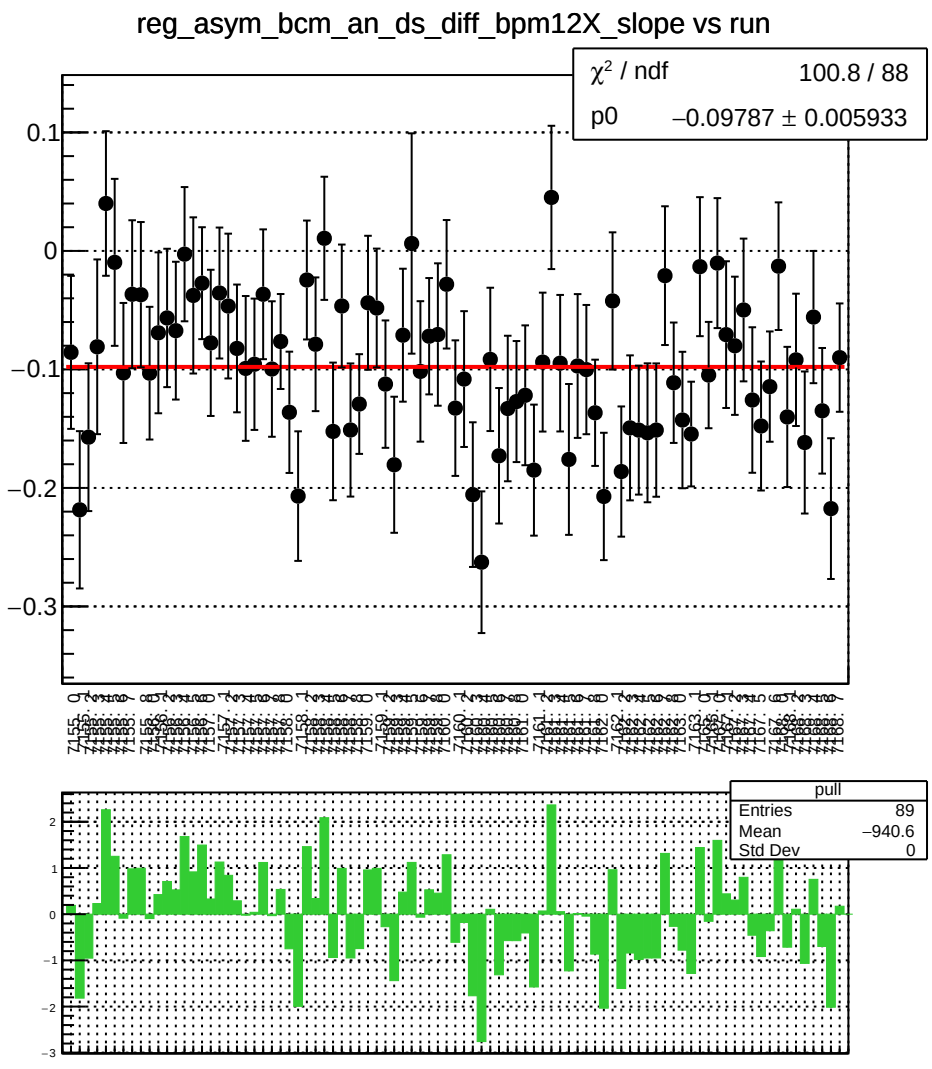

pull1D
Entries 89
Mean −0.1072
Std Dev 1.36

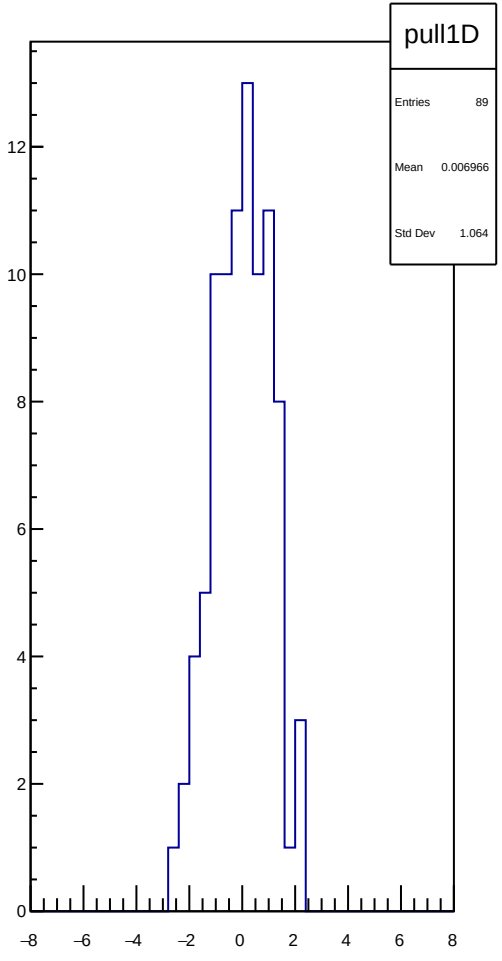

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 96.09 / 88
p0 2.678 ± 0.1358
pull
Entries 89
Mean −2900
Std Dev 0
pull1D
Entries 89
Mean −0.003205
Std Dev 1.039

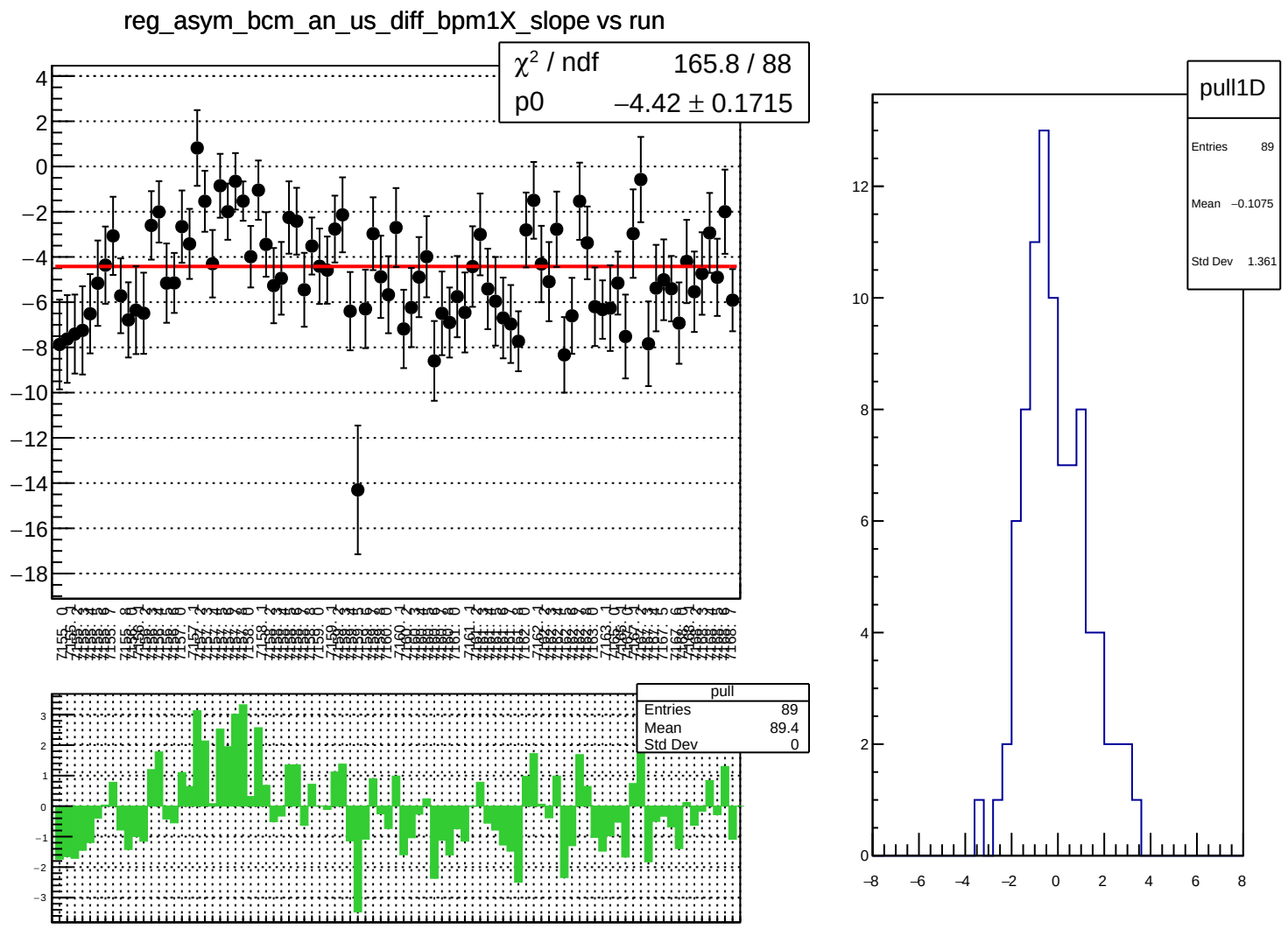

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 161.7 / 88
p0 4.268 ± 0.1733
pull
Entries 89
Mean 90.36
Std Dev 0

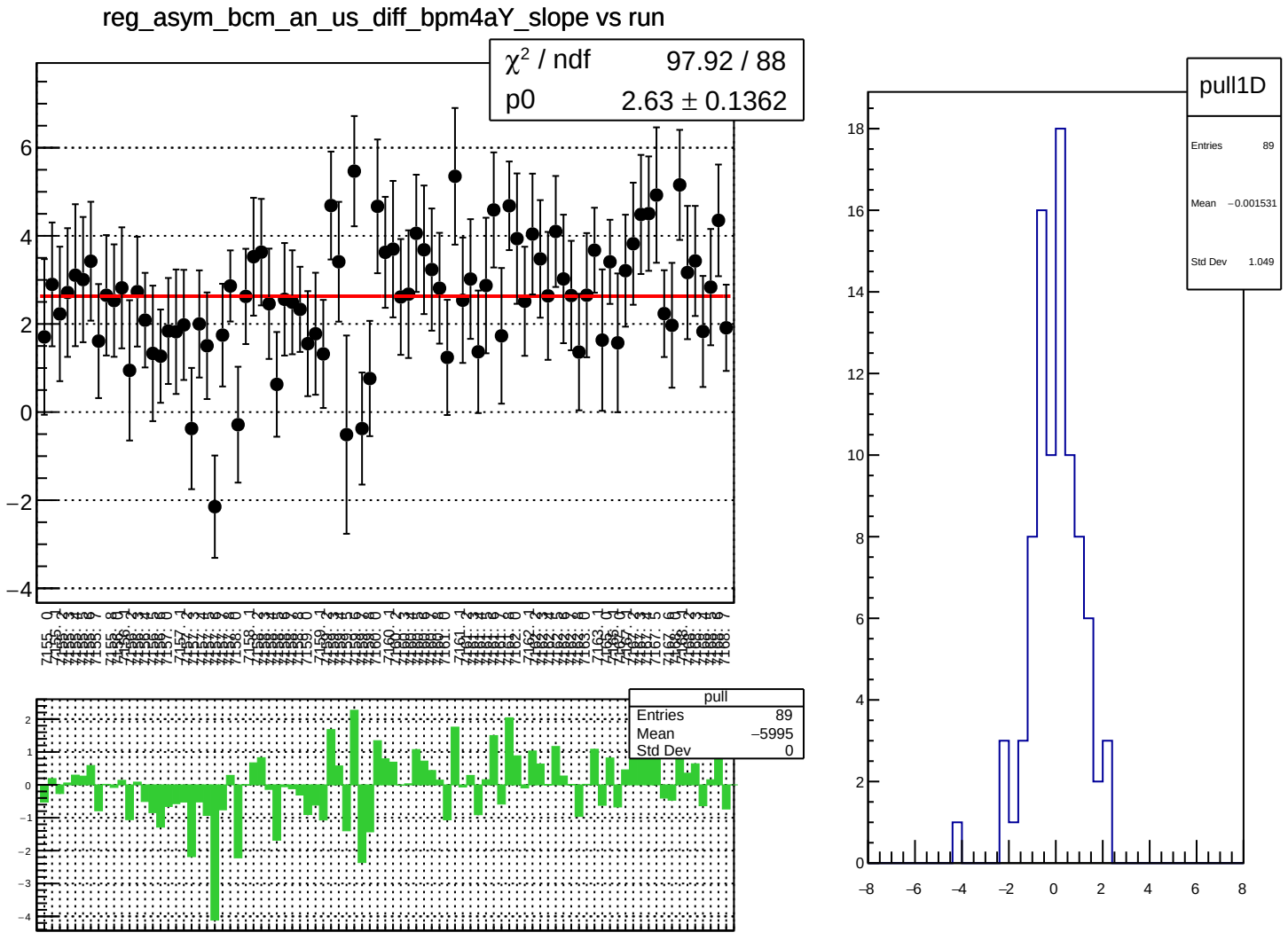

pull1D
Entries 89
Mean 0.1012
Std Dev 1.344

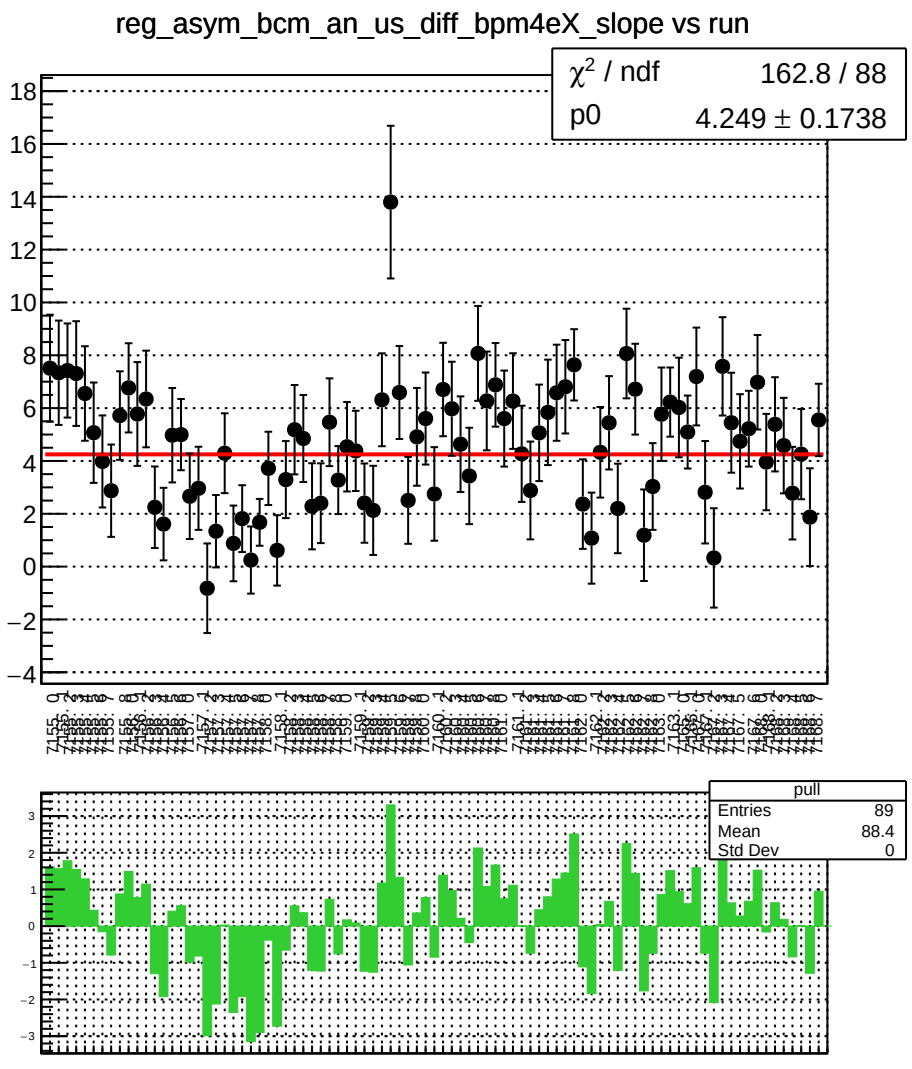

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 97.23 / 88
p0 −3.709 ± 0.1575
pull
Entries 89
Mean 698.9
Std Dev 0
pull1D
Entries 89
Mean −0.01503
Std Dev 1.045

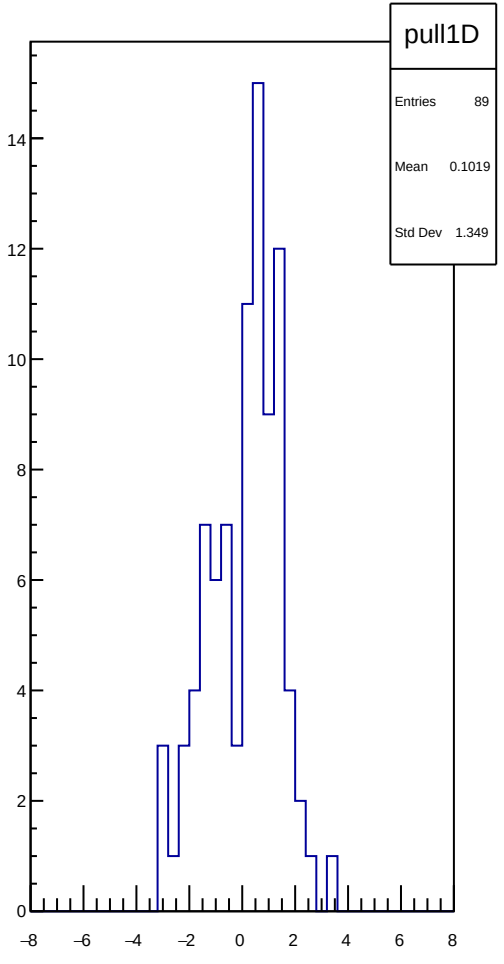

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 100.8 / 88
p0 −0.09787 ± 0.005933
pull
Entries 89
Mean −940.6
Std Dev 0

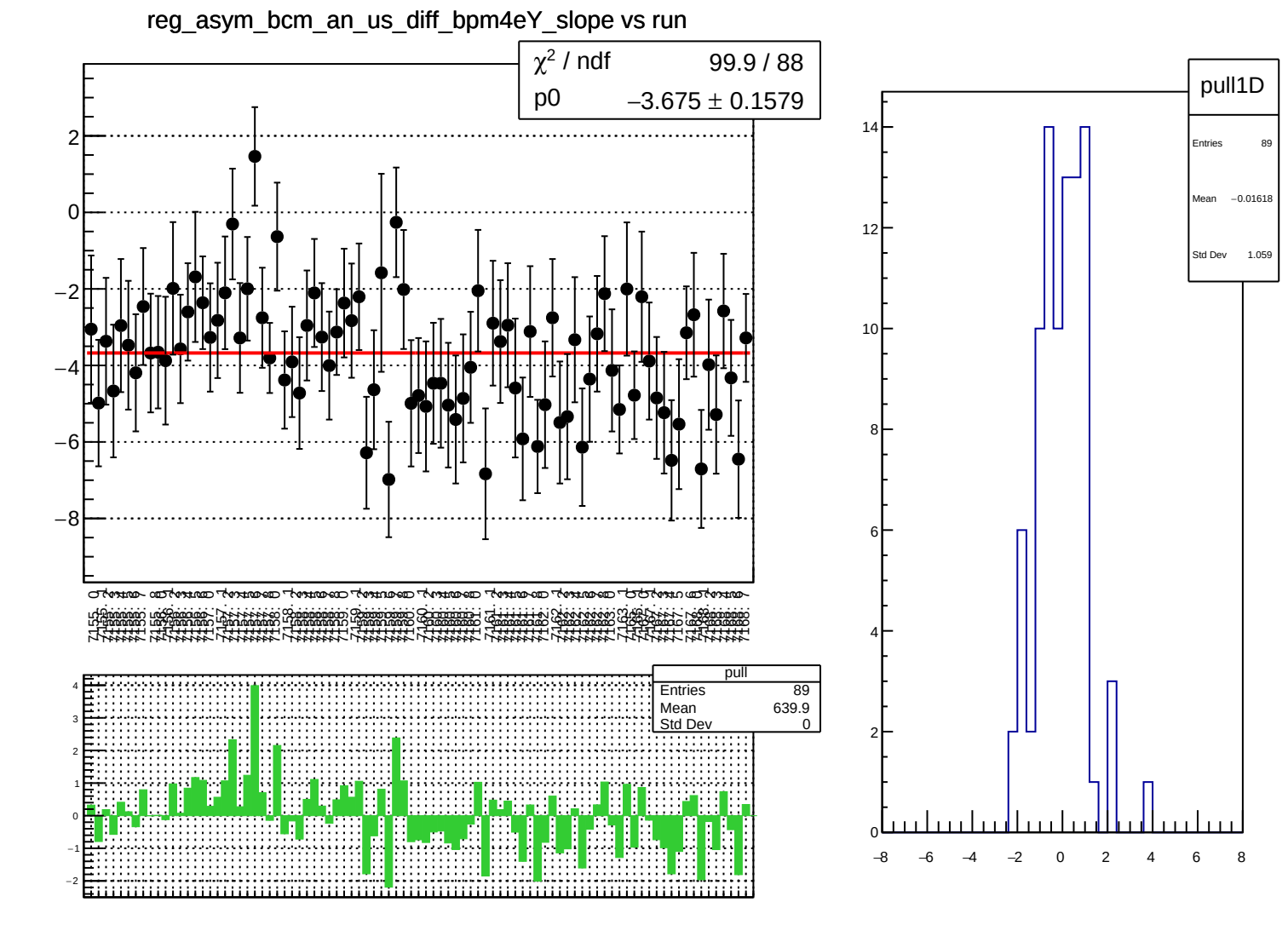

pull1D
Entries 89
Mean 0.006966
Std Dev 1.064

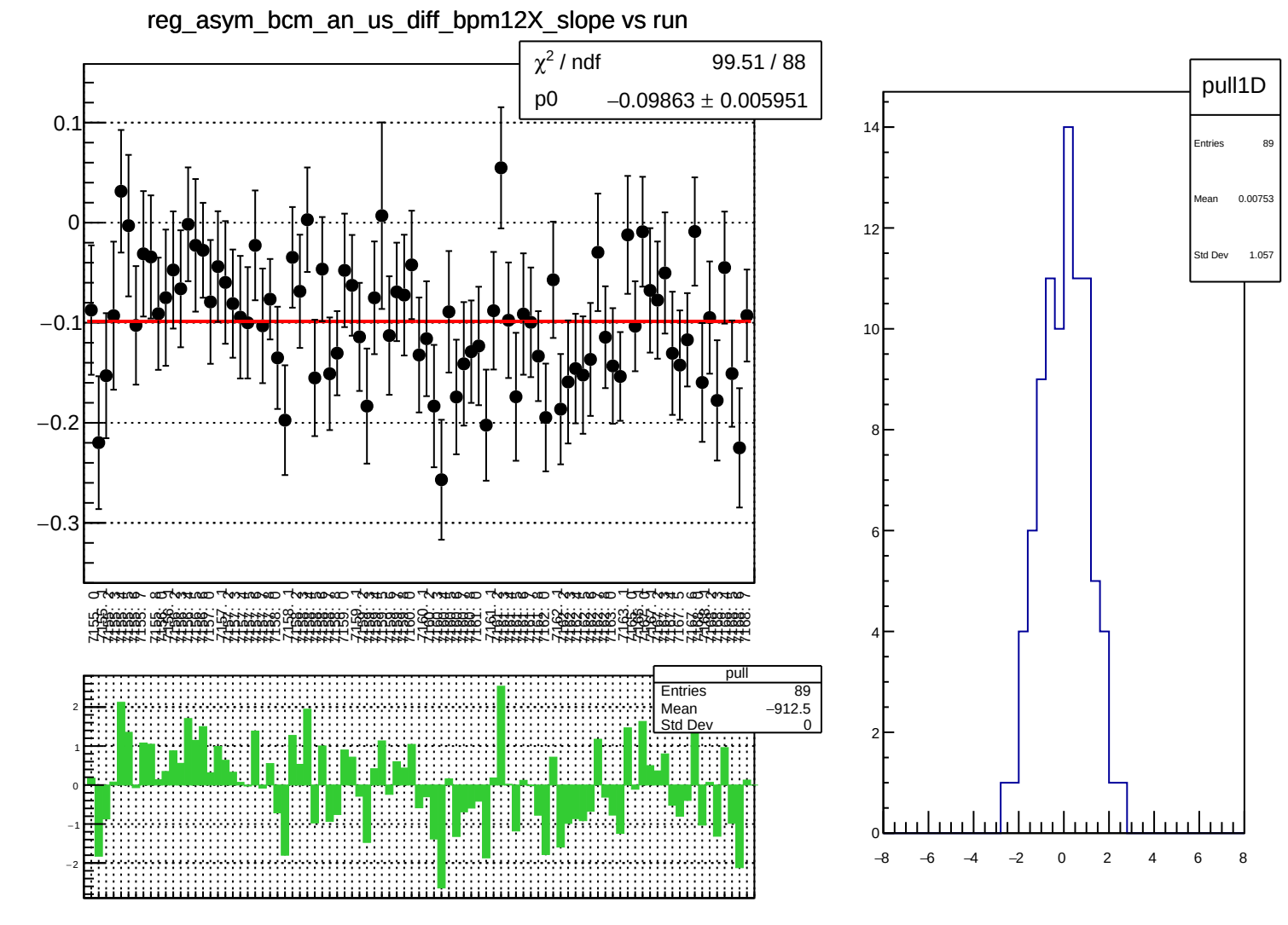

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 165.8 / 88
p0 −4.42 ± 0.1715
pull
Entries 89
Mean 89.4
Std Dev 0
pull1D
Entries 89
Mean −0.1075
Std Dev 1.361

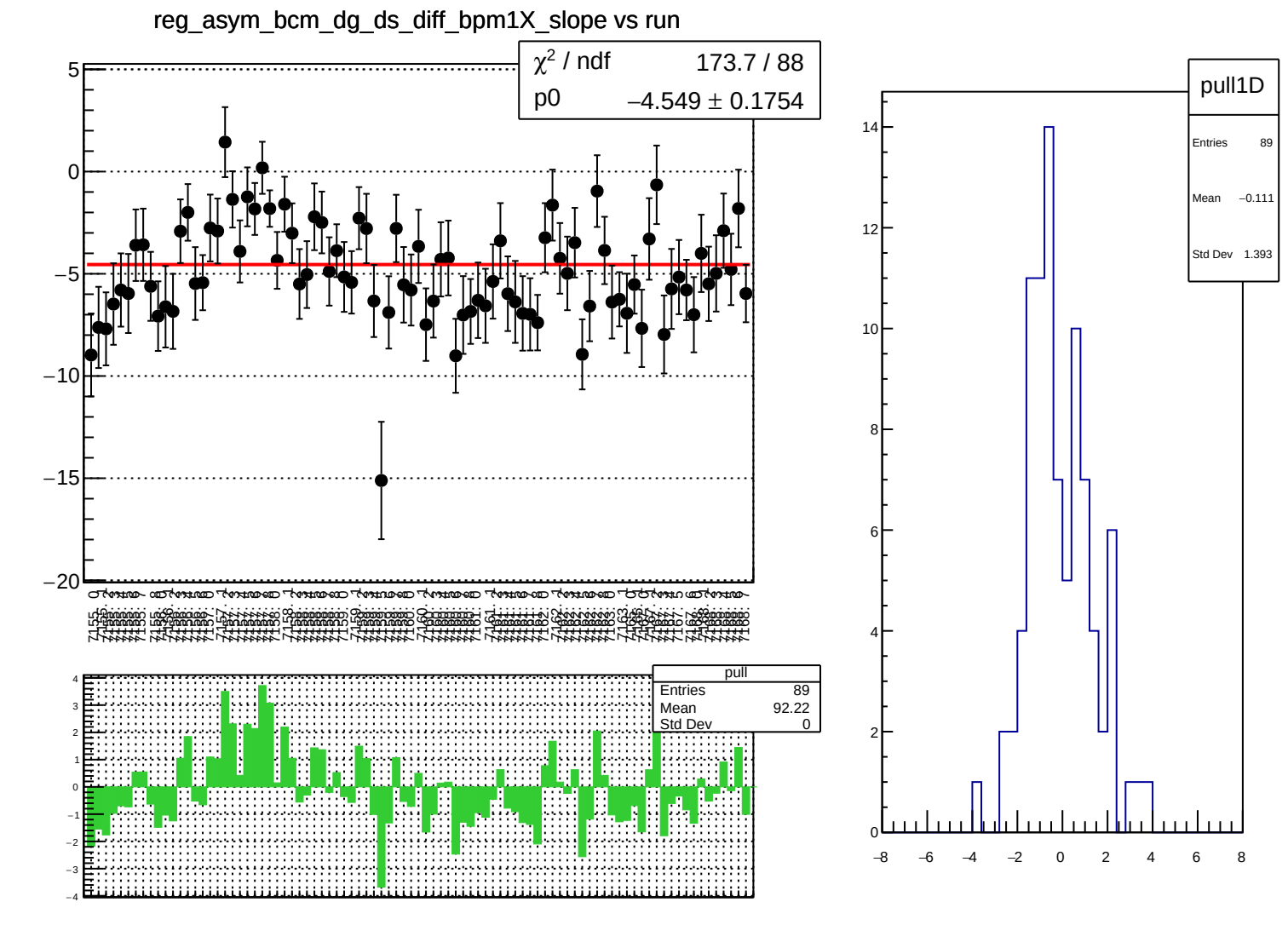

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 97.92 / 88
p0 2.63 ± 0.1362
pull
Entries 89
Mean −5995
Std Dev 0
pull1D
Entries 89
Mean −0.001531
Std Dev 1.049

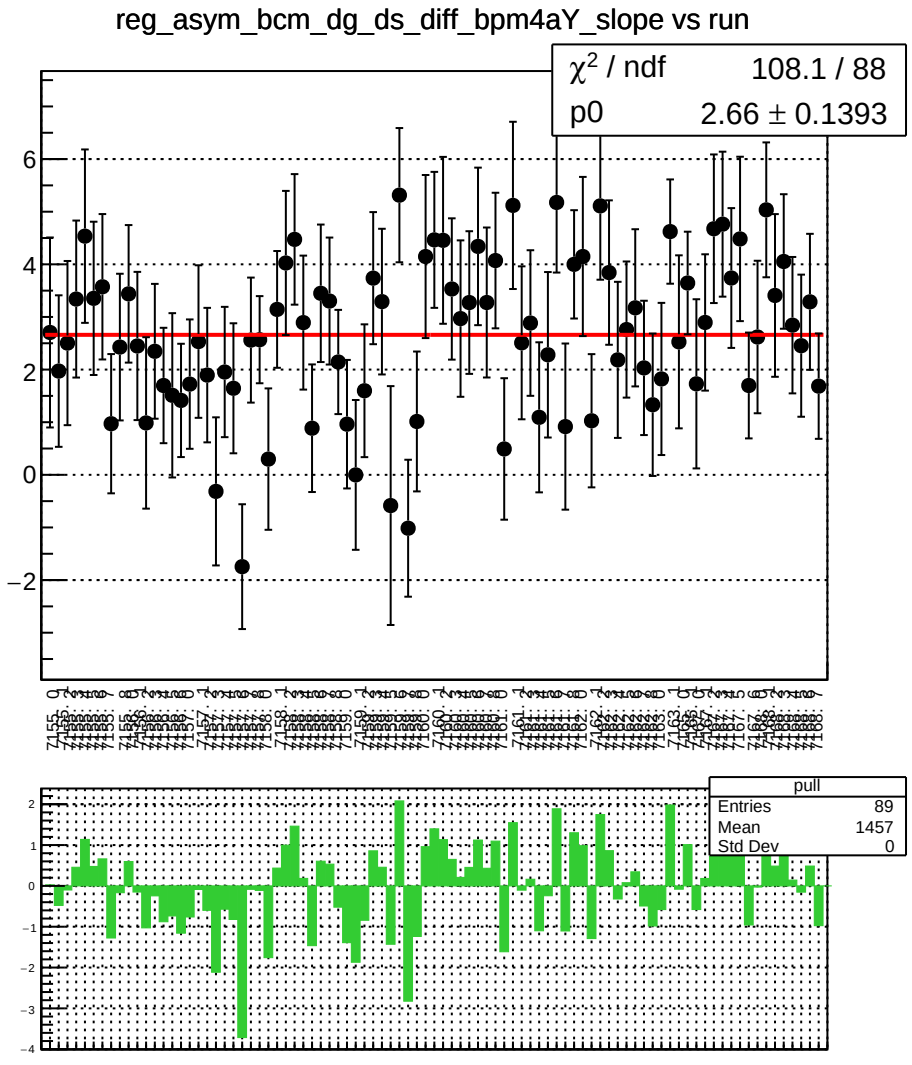

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 162.8 / 88
p0 4.249 ± 0.1738
pull
Entries 89
Mean 88.4
Std Dev 0

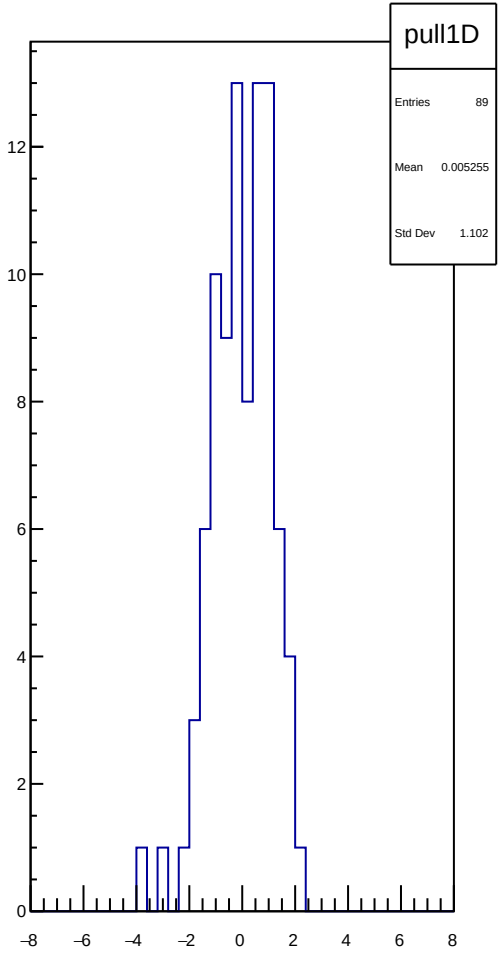

pull1D
Entries 89
Mean 0.1019
Std Dev 1.349

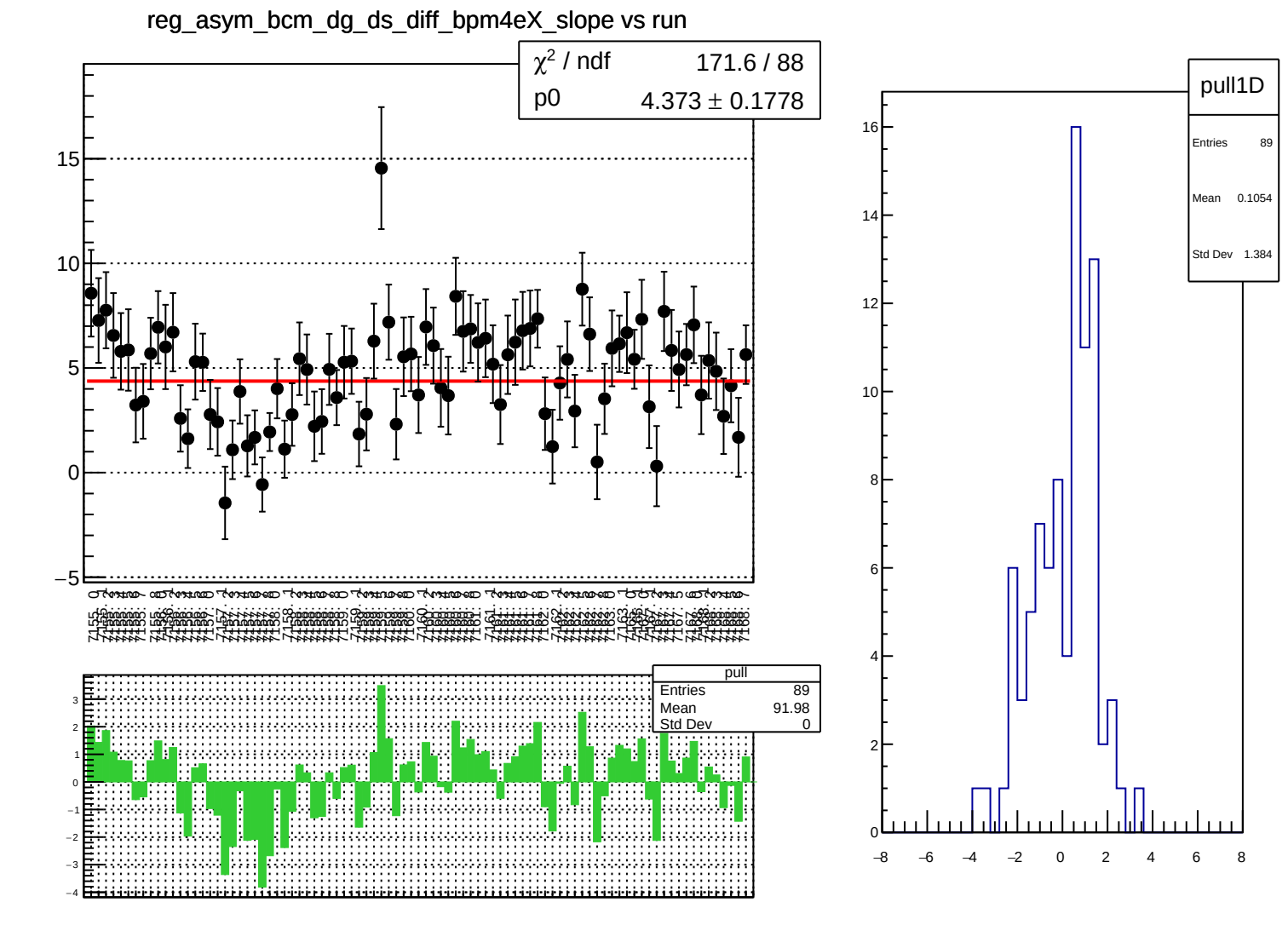

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 99.9 / 88
p0 −3.675 ± 0.1579
pull
Entries 89
Mean 639.9
Std Dev 0
pull1D
Entries 89
Mean −0.01618
Std Dev 1.059

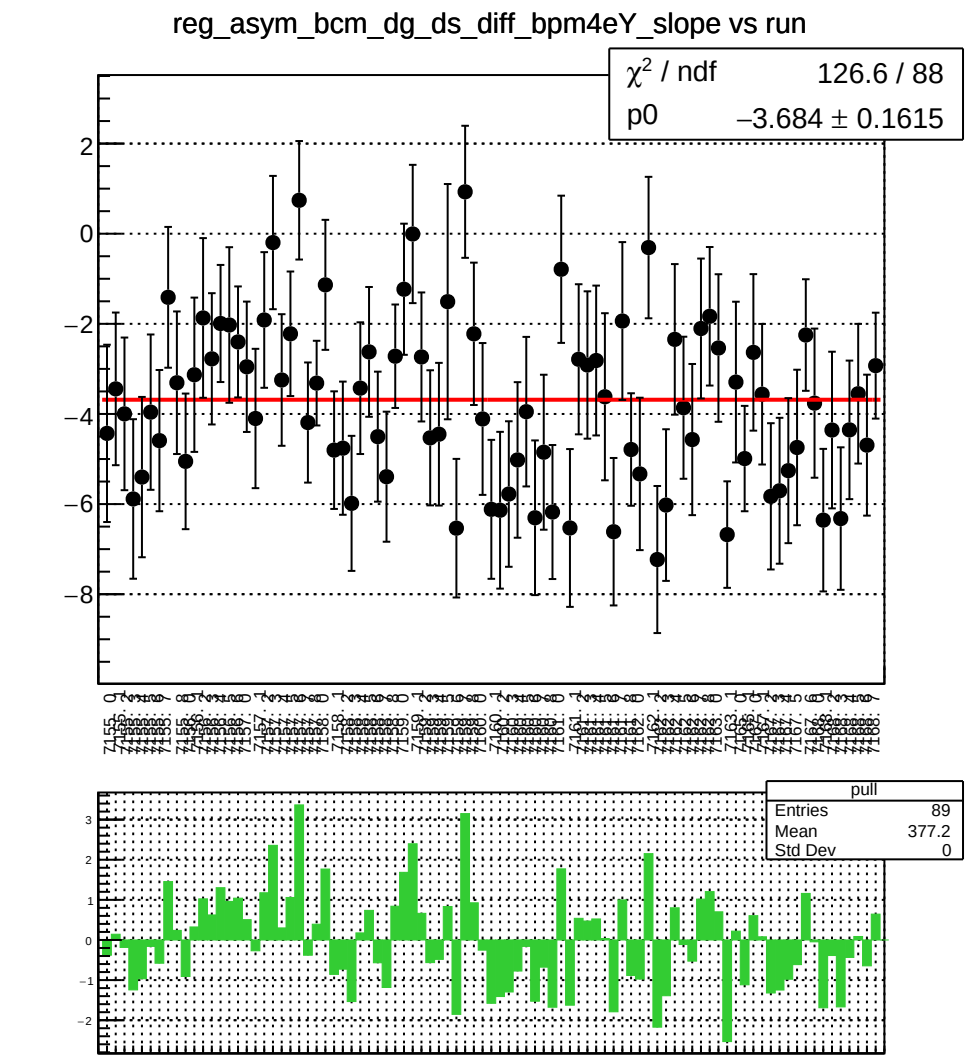

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 99.51 / 88
p0 −0.09863 ± 0.005951
pull
Entries 89
Mean −912.5
Std Dev 0
pull1D
Entries 89
Mean 0.00753
Std Dev 1.057

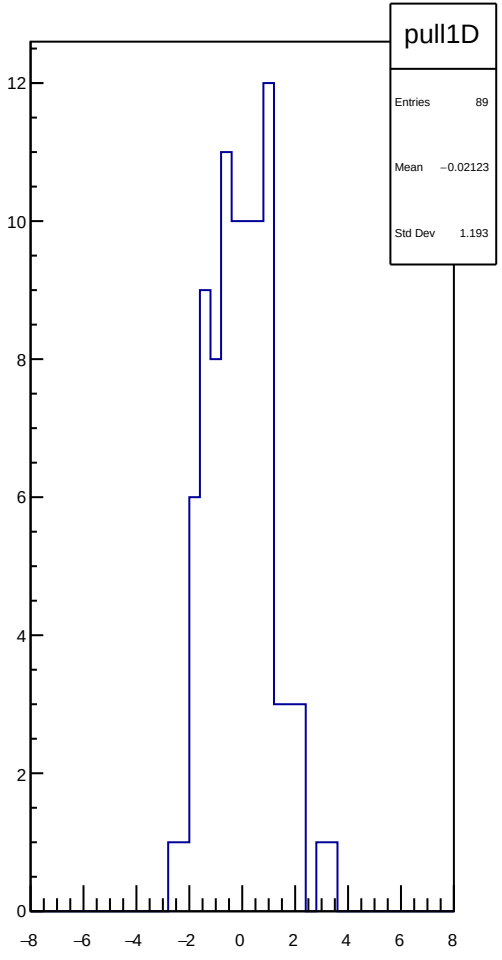

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 173.7 / 88
p0 −4.549 ± 0.1754
pull
Entries 89
Mean 92.22
Std Dev 0
pull1D
Entries 89
Mean −0.111
Std Dev 1.393

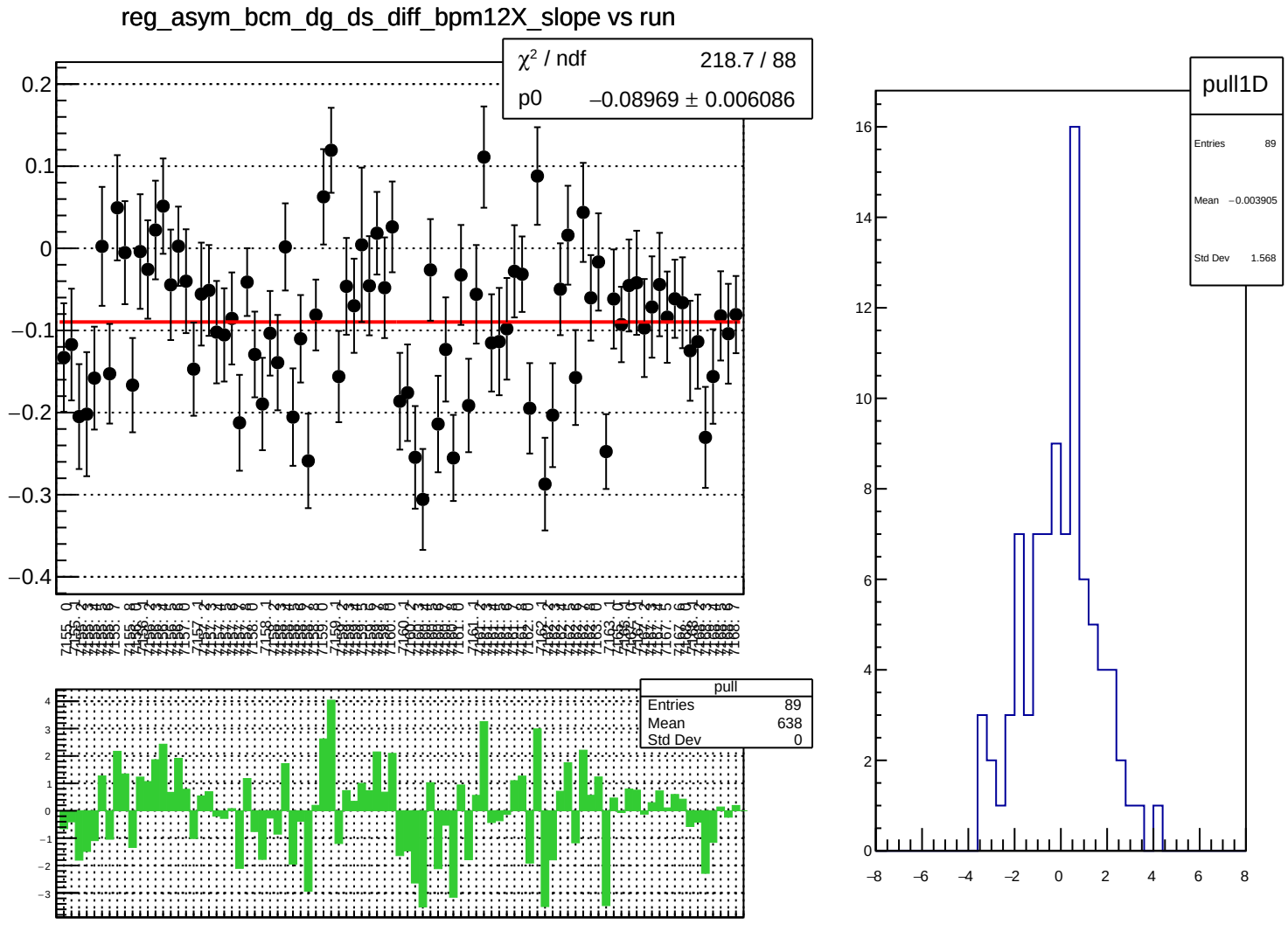

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 108.1 / 88
p0 2.66 ± 0.1393
pull
Entries 89
Mean 1457
Std Dev 0

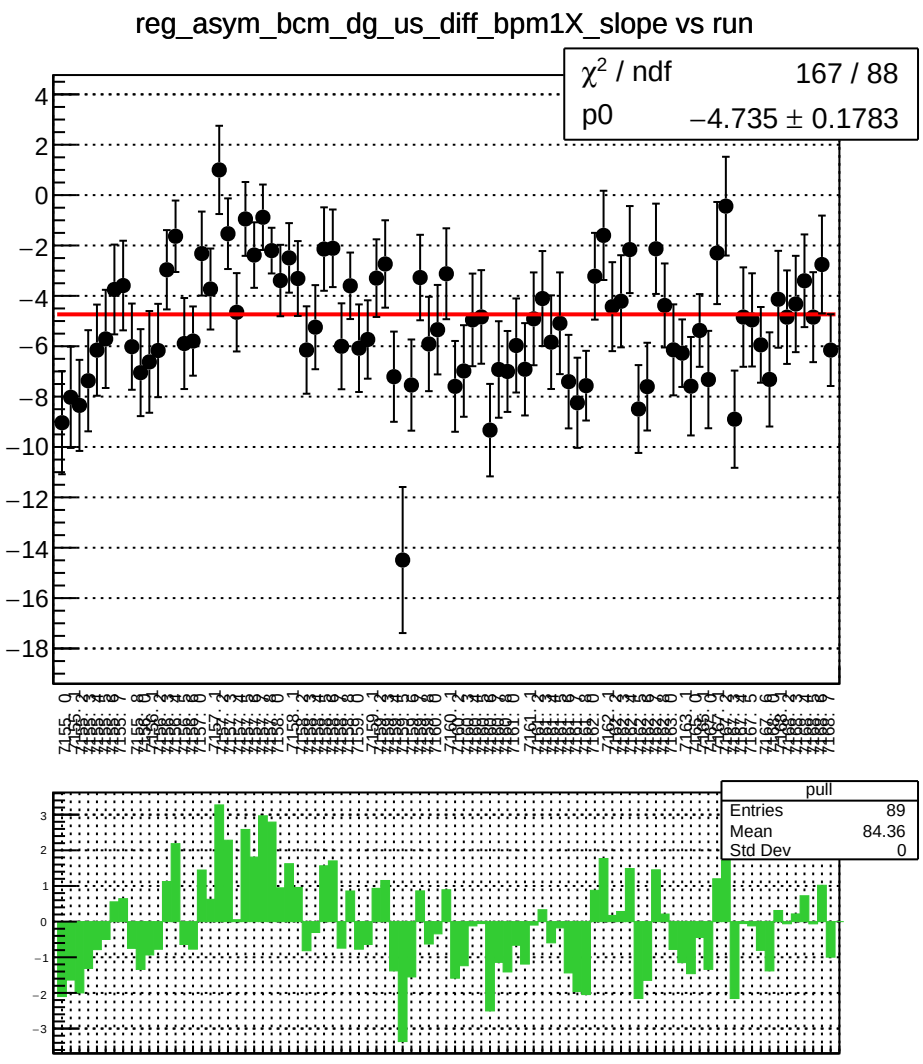

pull1D
Entries 89
Mean 0.005255
Std Dev 1.102

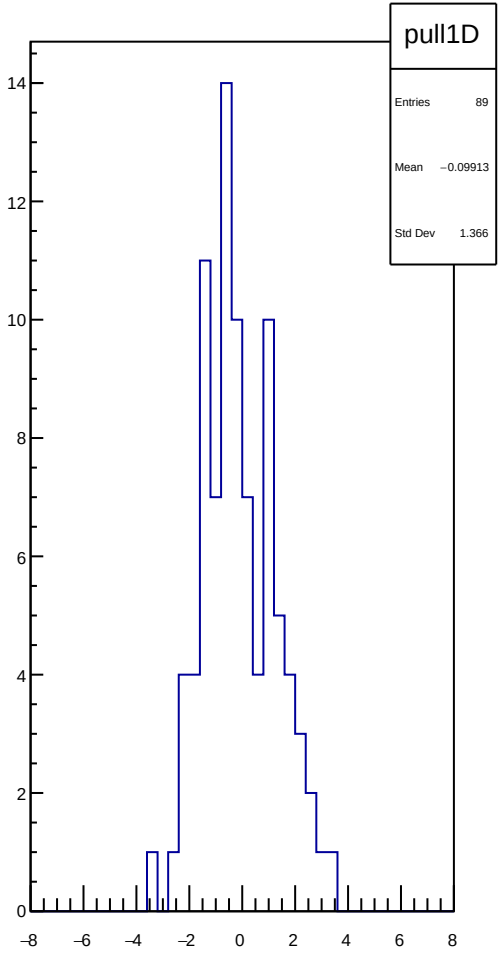

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 171.6 / 88
p0 4.373 ± 0.1778
pull
Entries 89
Mean 91.98
Std Dev 0
pull1D
Entries 89
Mean 0.1054
Std Dev 1.384

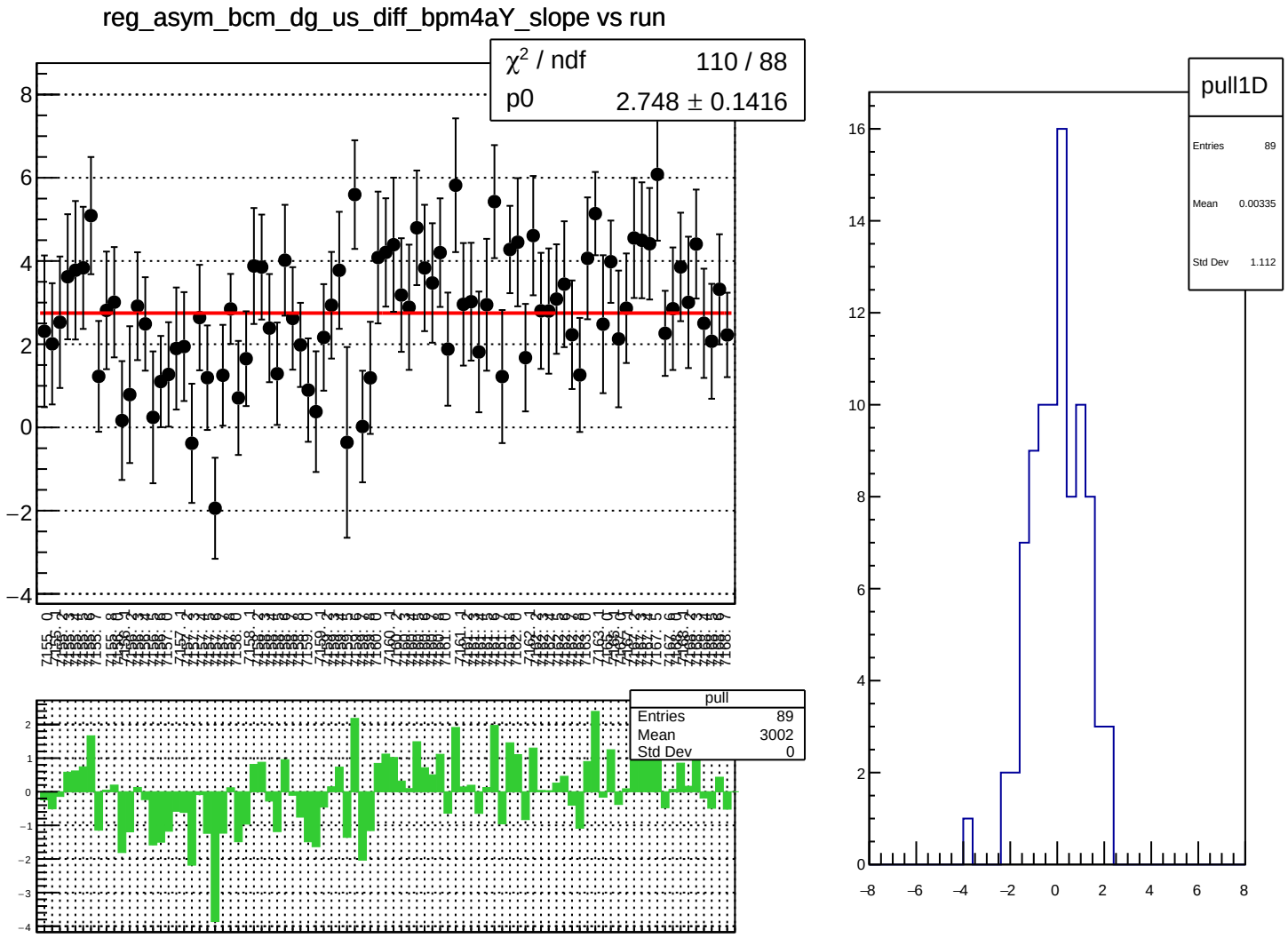

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 126.6 / 88
p0 −3.684 ± 0.1615
pull
Entries 89
Mean 377.2
Std Dev 0

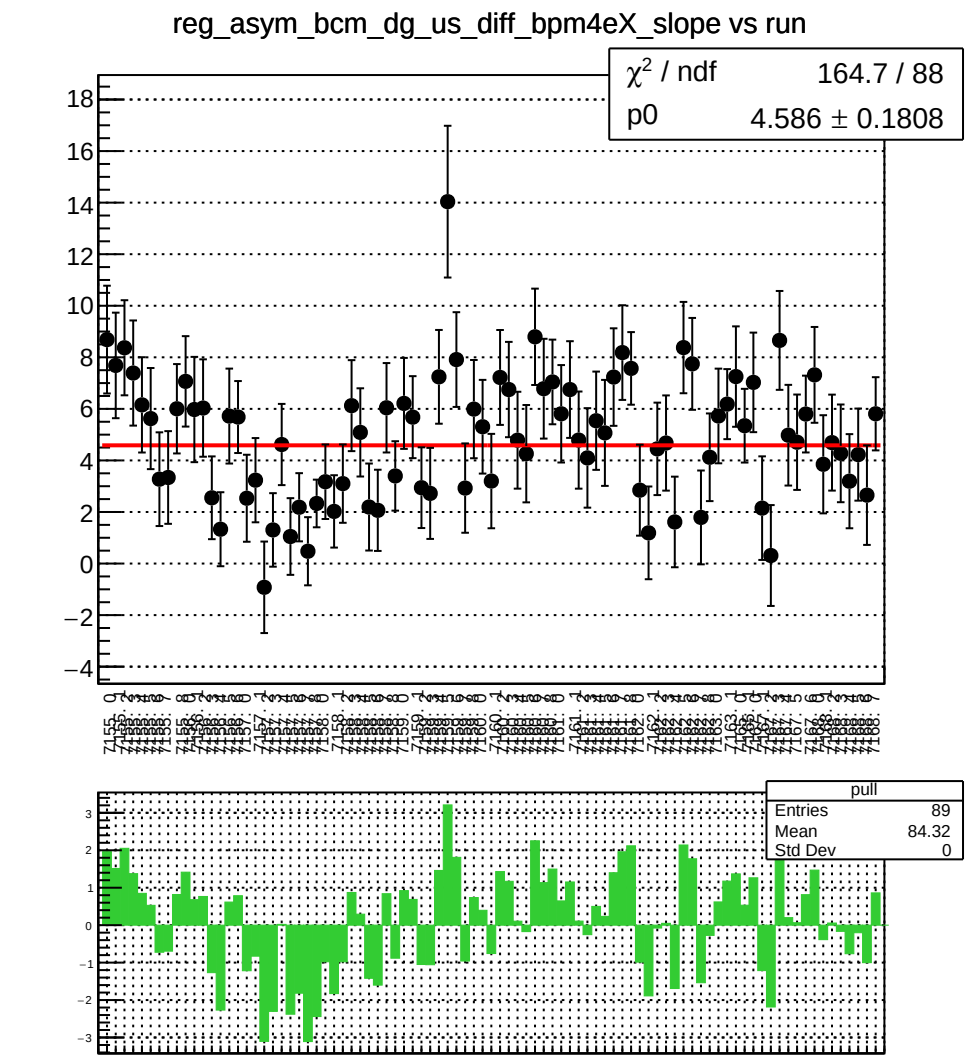

pull1D
Entries 89
Mean −0.02123
Std Dev 1.193

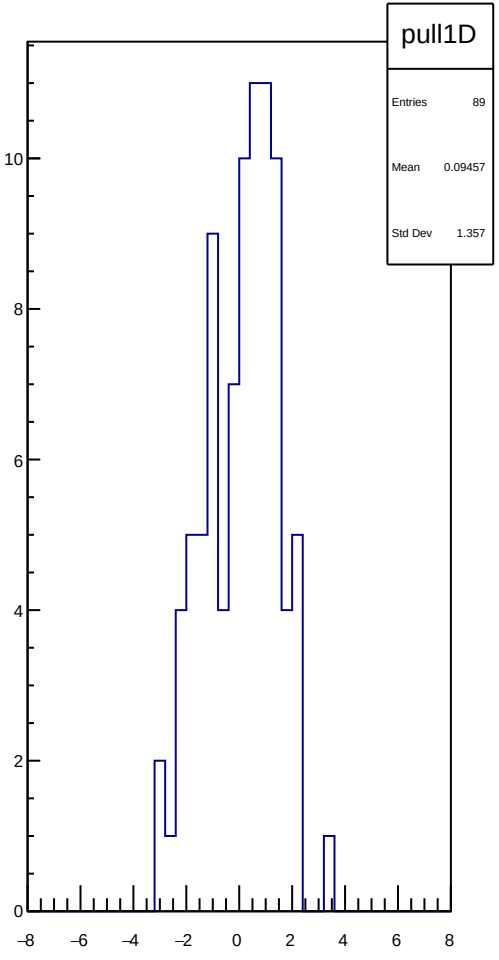

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 218.7 / 88
p0 −0.08969 ± 0.006086
pull
Entries 89
Mean 638
Std Dev 0
pull1D
Entries 89
Mean −0.003905
Std Dev 1.568

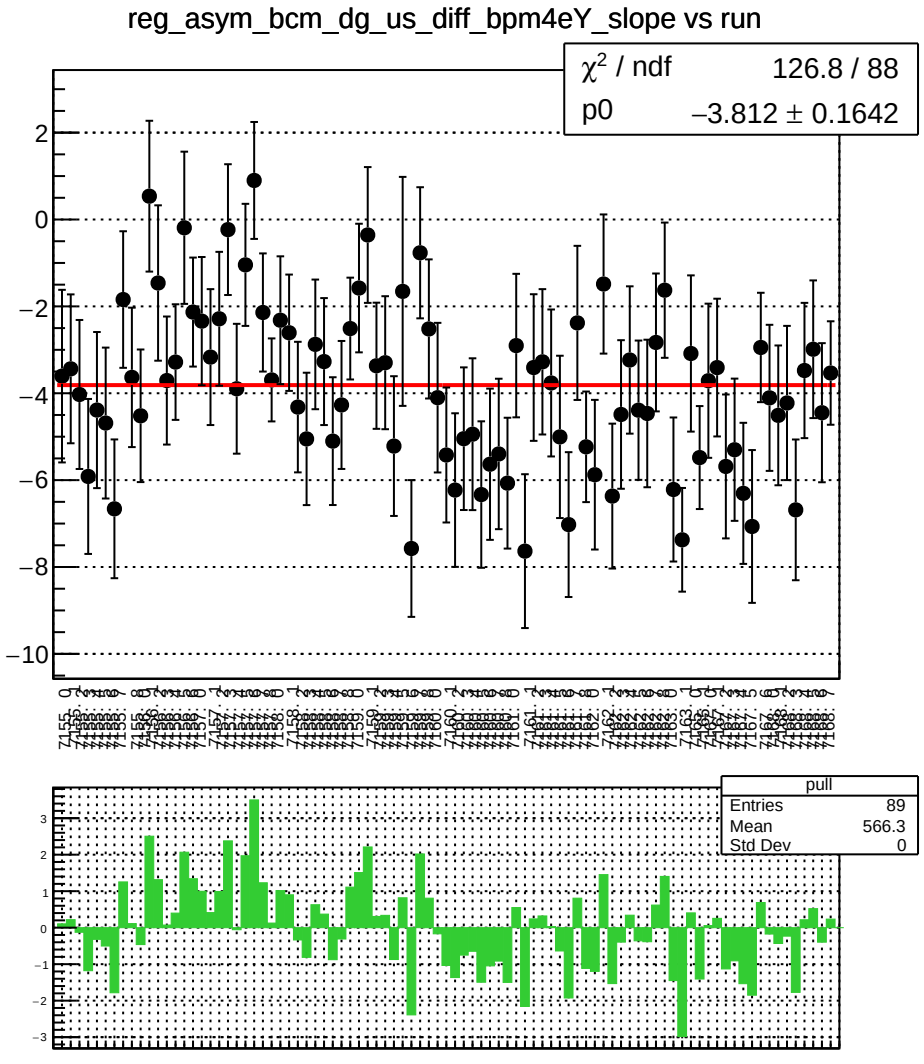

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 167 / 88
p0 −4.735 ± 0.1783
pull
Entries 89
Mean 84.36
Std Dev 0

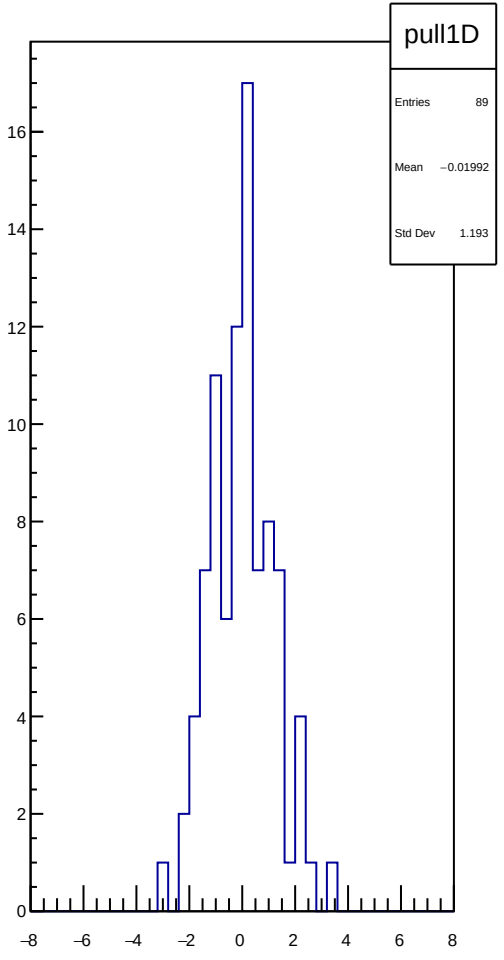

pull1D
Entries 89
Mean −0.09913
Std Dev 1.366

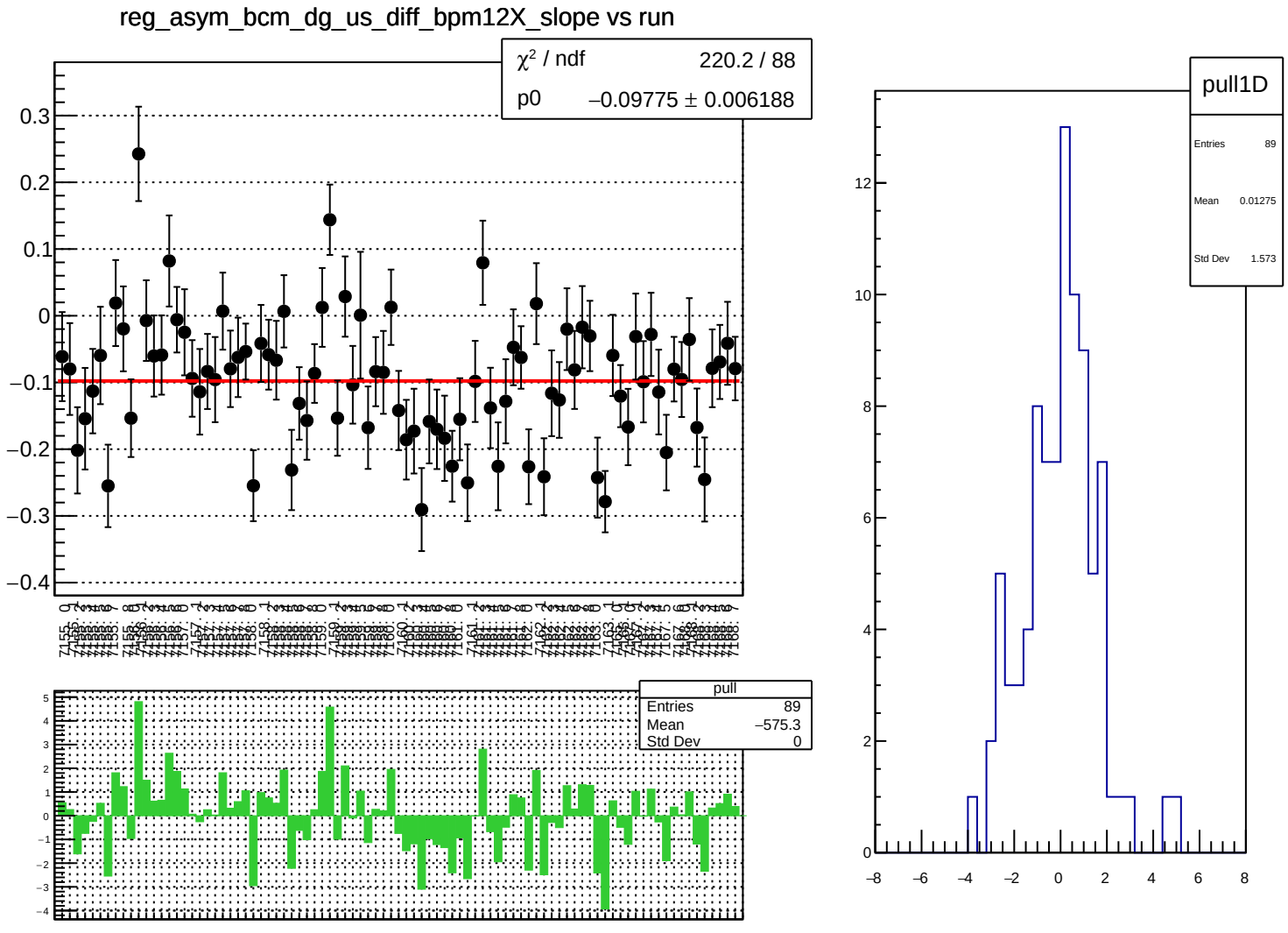

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 110 / 88
p0 2.748 ± 0.1416
pull
Entries 89
Mean 3002
Std Dev 0
pull1D
Entries 89
Mean 0.00335
Std Dev 1.112

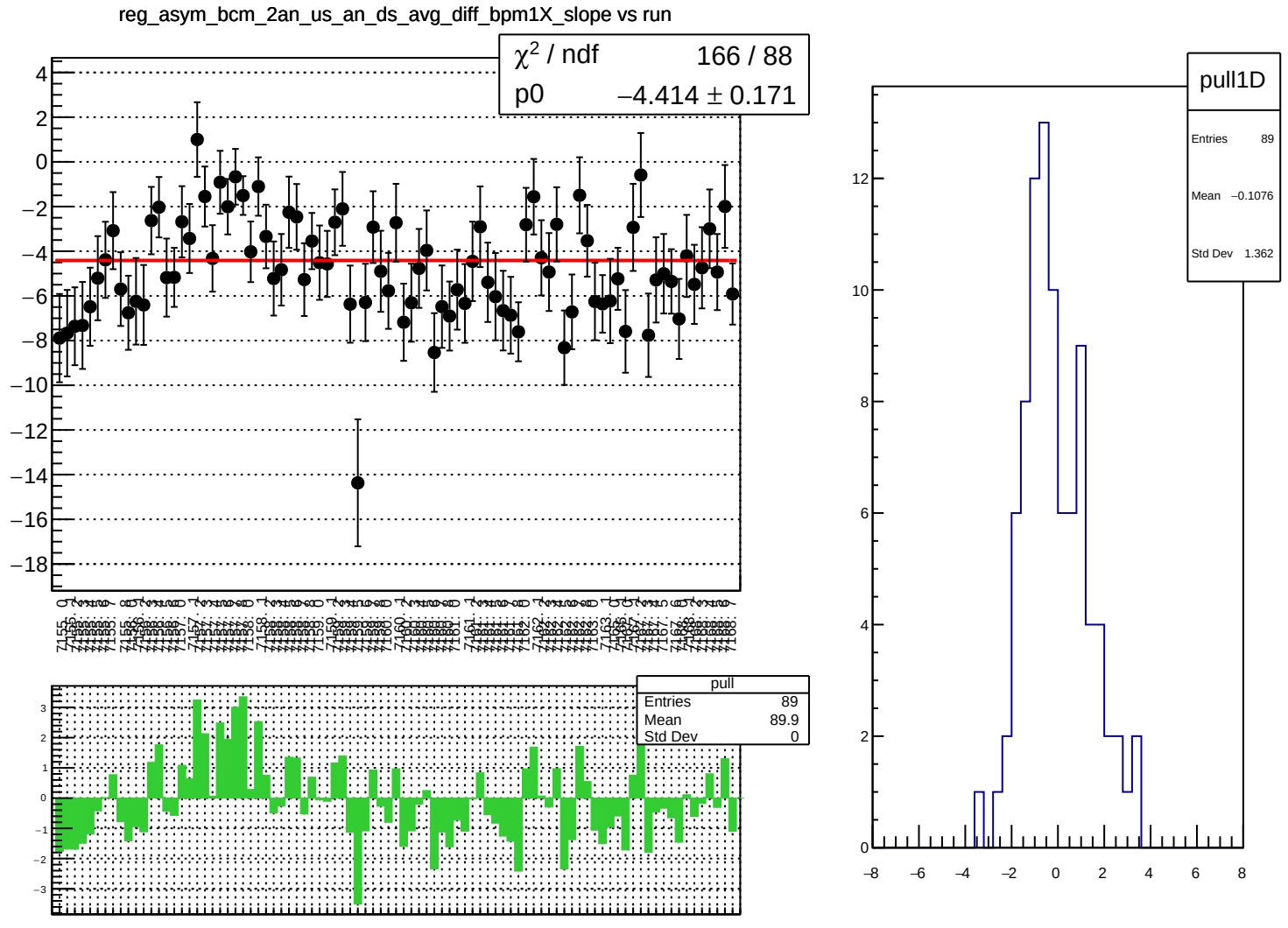

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 164.7 / 88
p0 4.586 ± 0.1808
pull
Entries 89
Mean 84.32
Std Dev 0

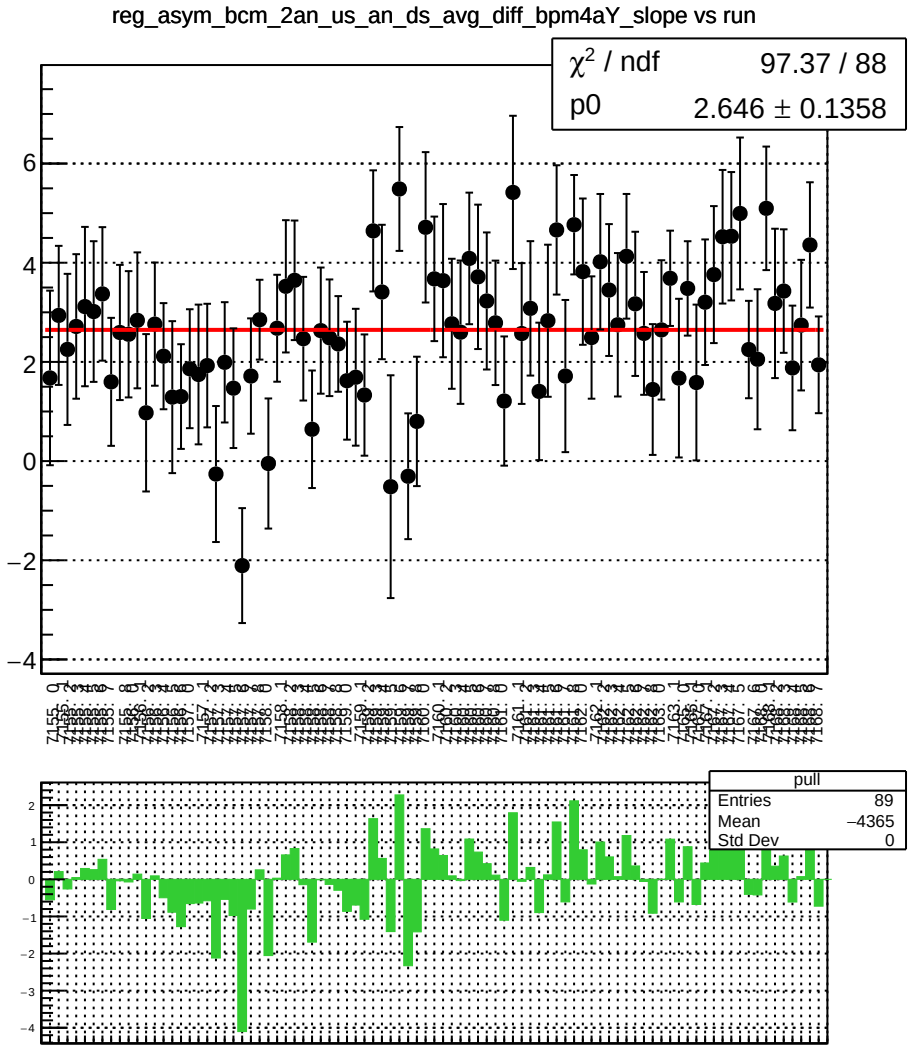

pull1D
Entries 89
Mean 0.09457
Std Dev 1.357

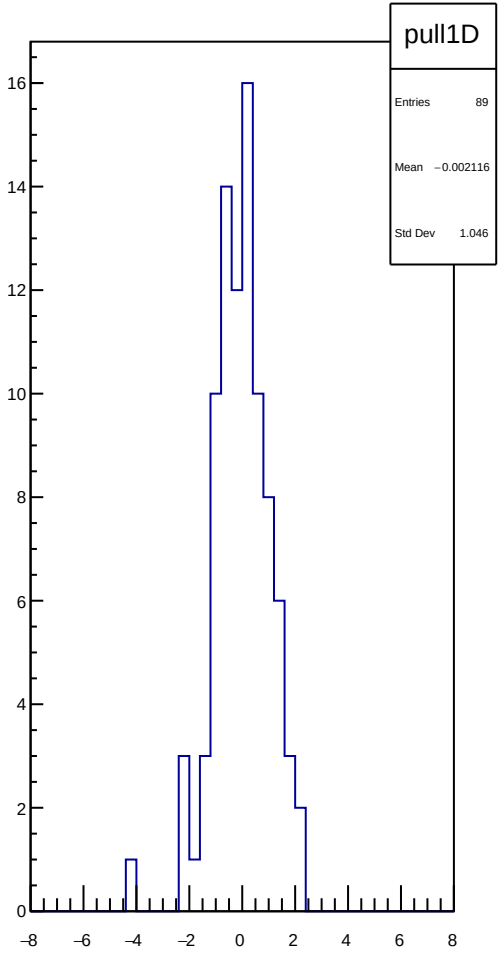

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 126.8 / 88
p0 −3.812 ± 0.1642
pull
Entries 89
Mean 566.3
Std Dev 0

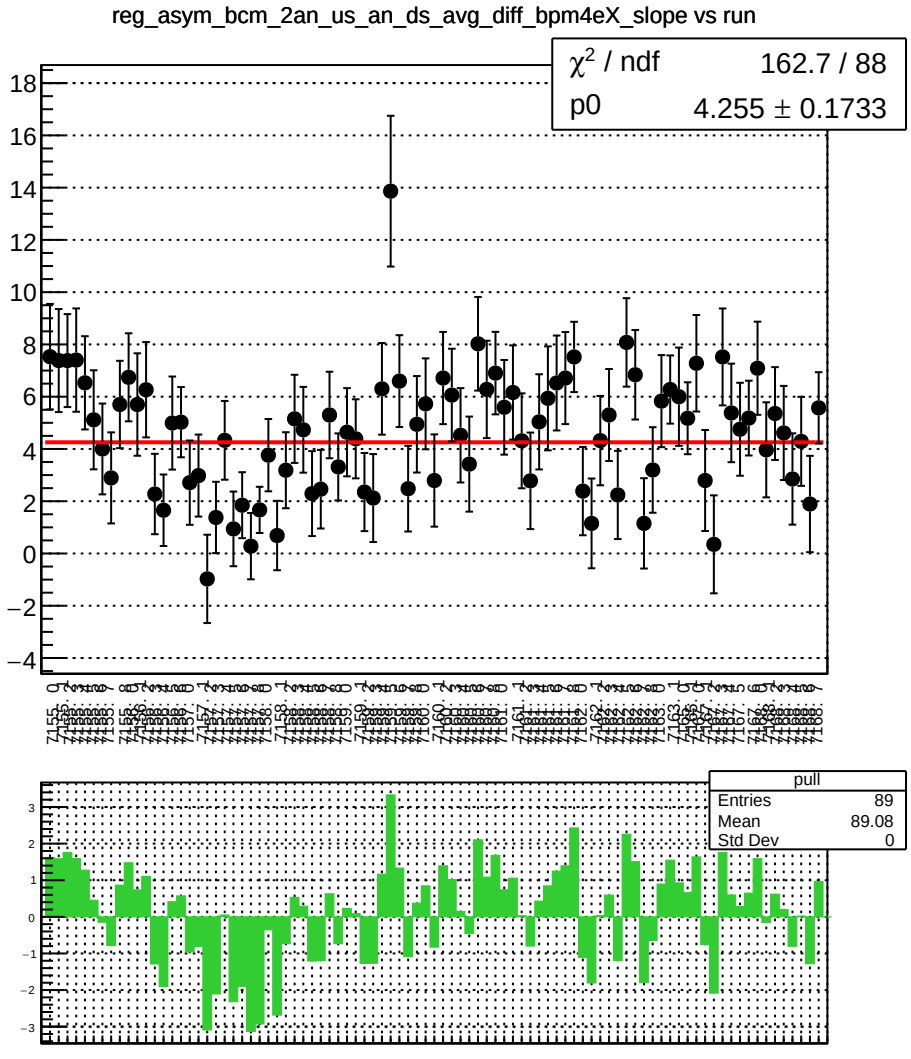

pull1D
Entries 89
Mean −0.01992
Std Dev 1.193

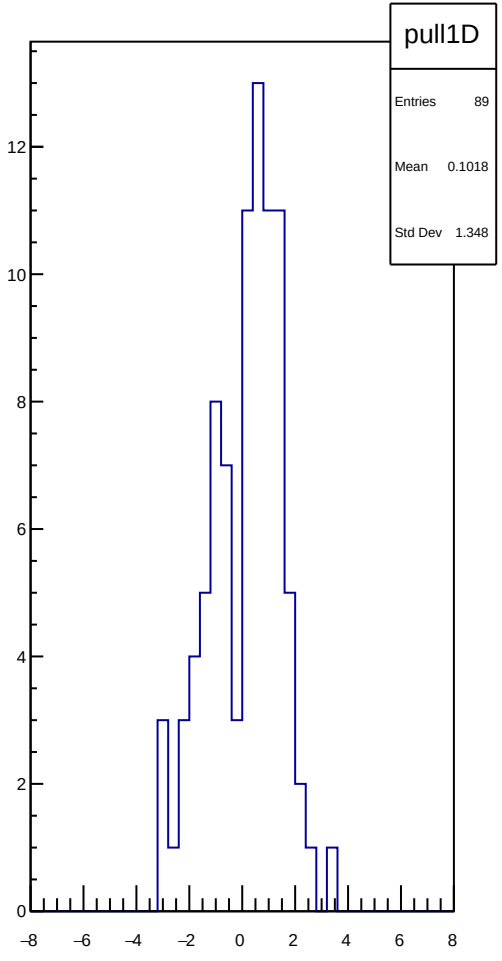

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 220.2 / 88
p0 −0.09775 ± 0.006188
pull
Entries 89
Mean −575.3
Std Dev 0
pull1D
Entries 89
Mean 0.01275
Std Dev 1.573

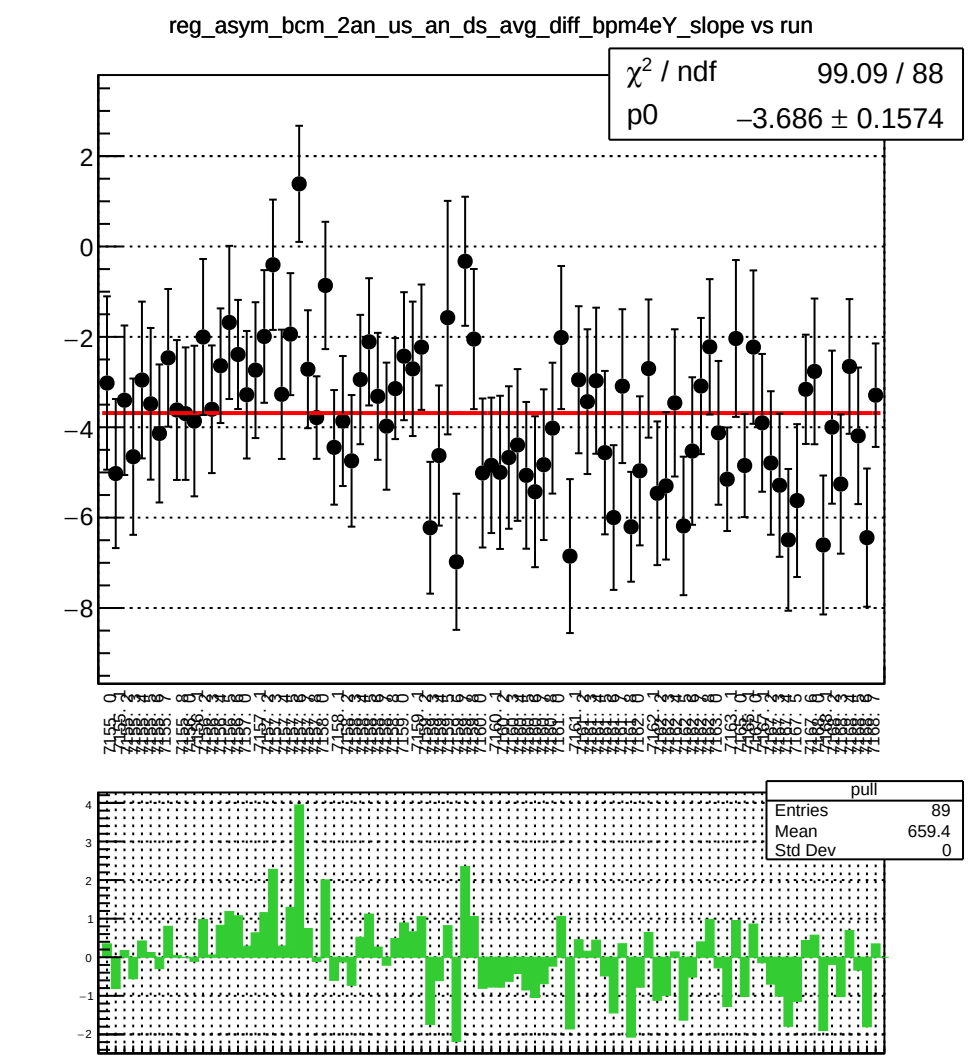

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 166 / 88
p0 −4.414 ± 0.171
pull
Entries 89
Mean 89.9
Std Dev 0
pull1D
Entries 89
Mean −0.1076
Std Dev 1.362

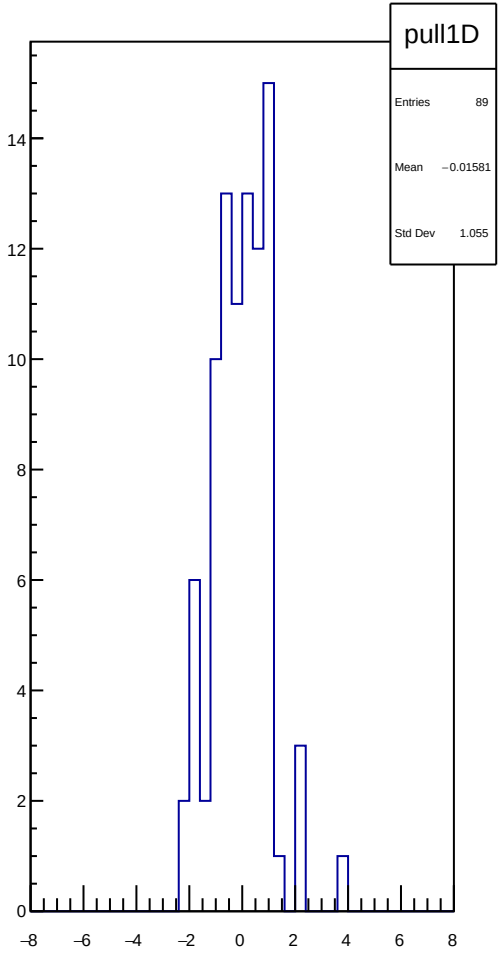

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.37 / 88
p0 2.646 ± 0.1358
pull
Entries 89
Mean −4365
Std Dev 0

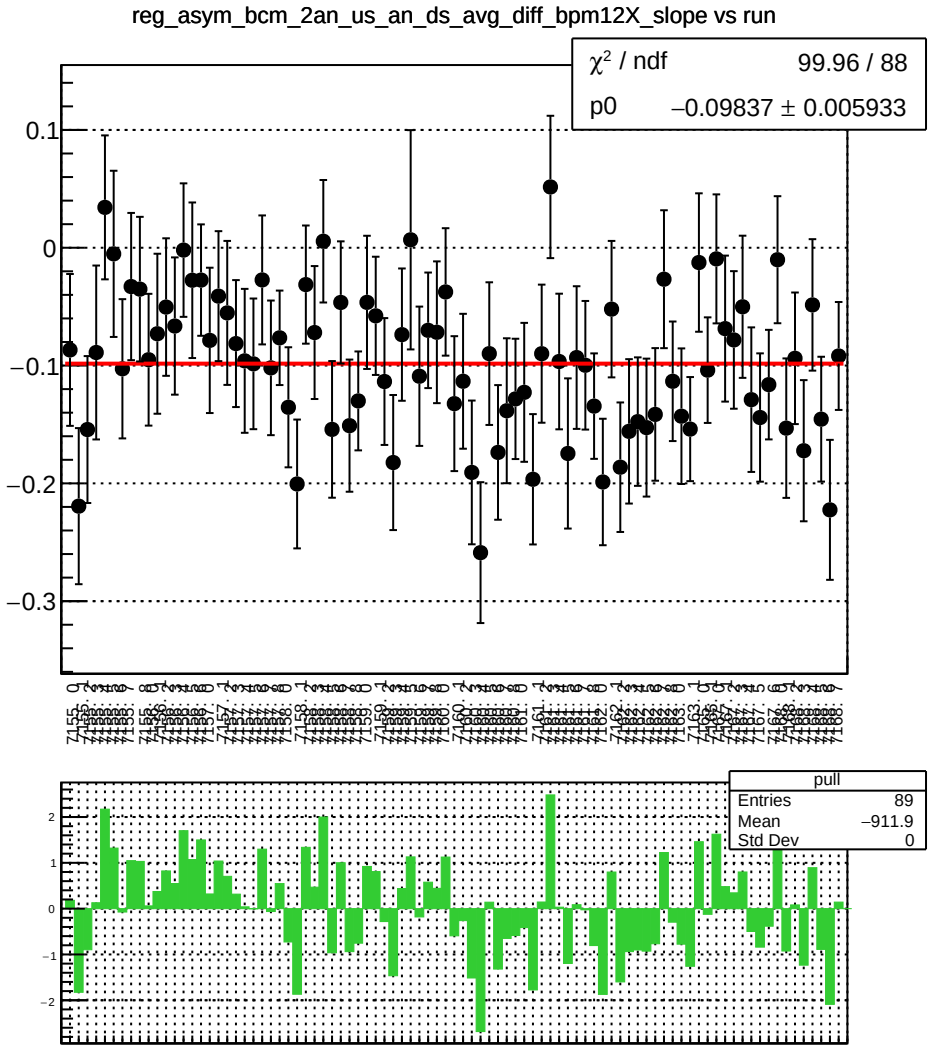

pull1D
Entries 89
Mean −0.002116
Std Dev 1.046

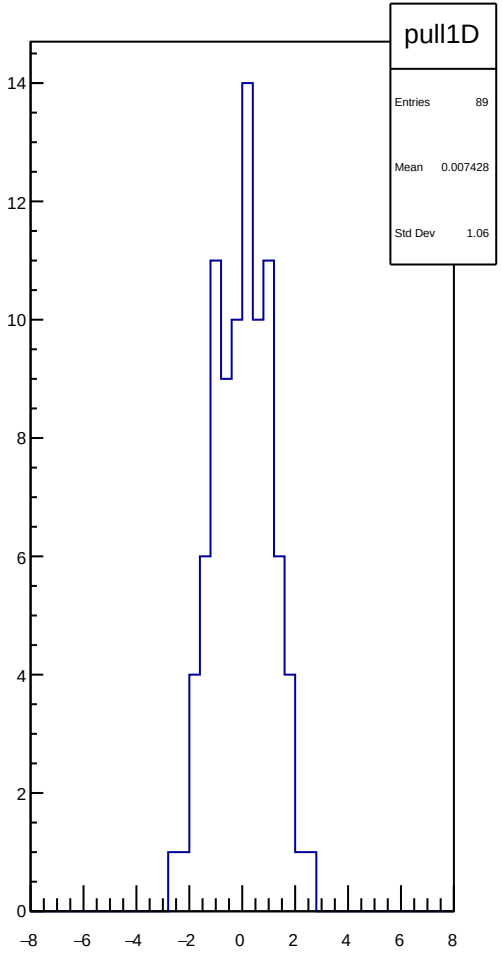

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.7 / 88
p0 4.255 ± 0.1733
pull
Entries 89
Mean 89.08
Std Dev 0

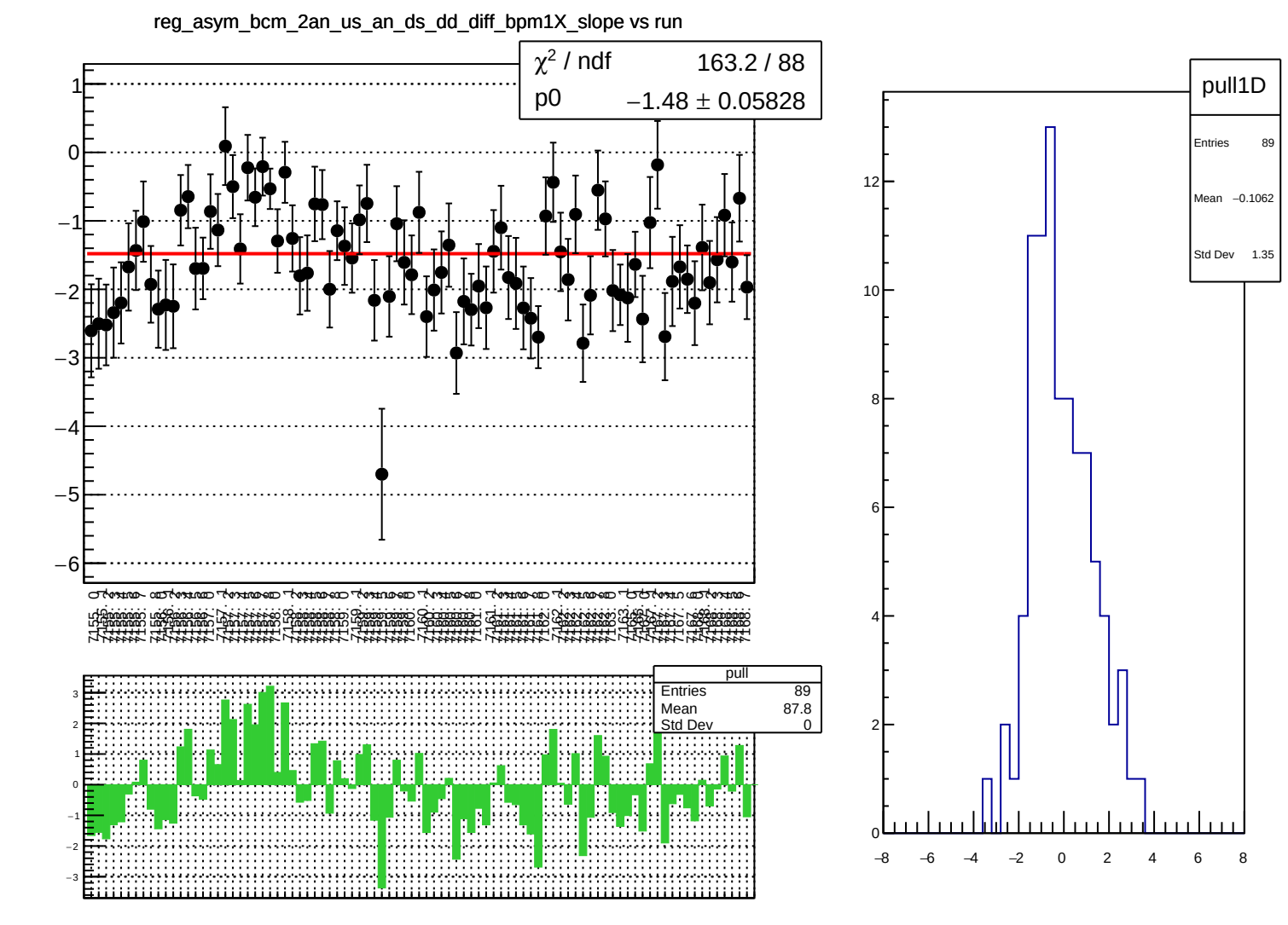

pull1D
Entries 89
Mean 0.1018
Std Dev 1.348

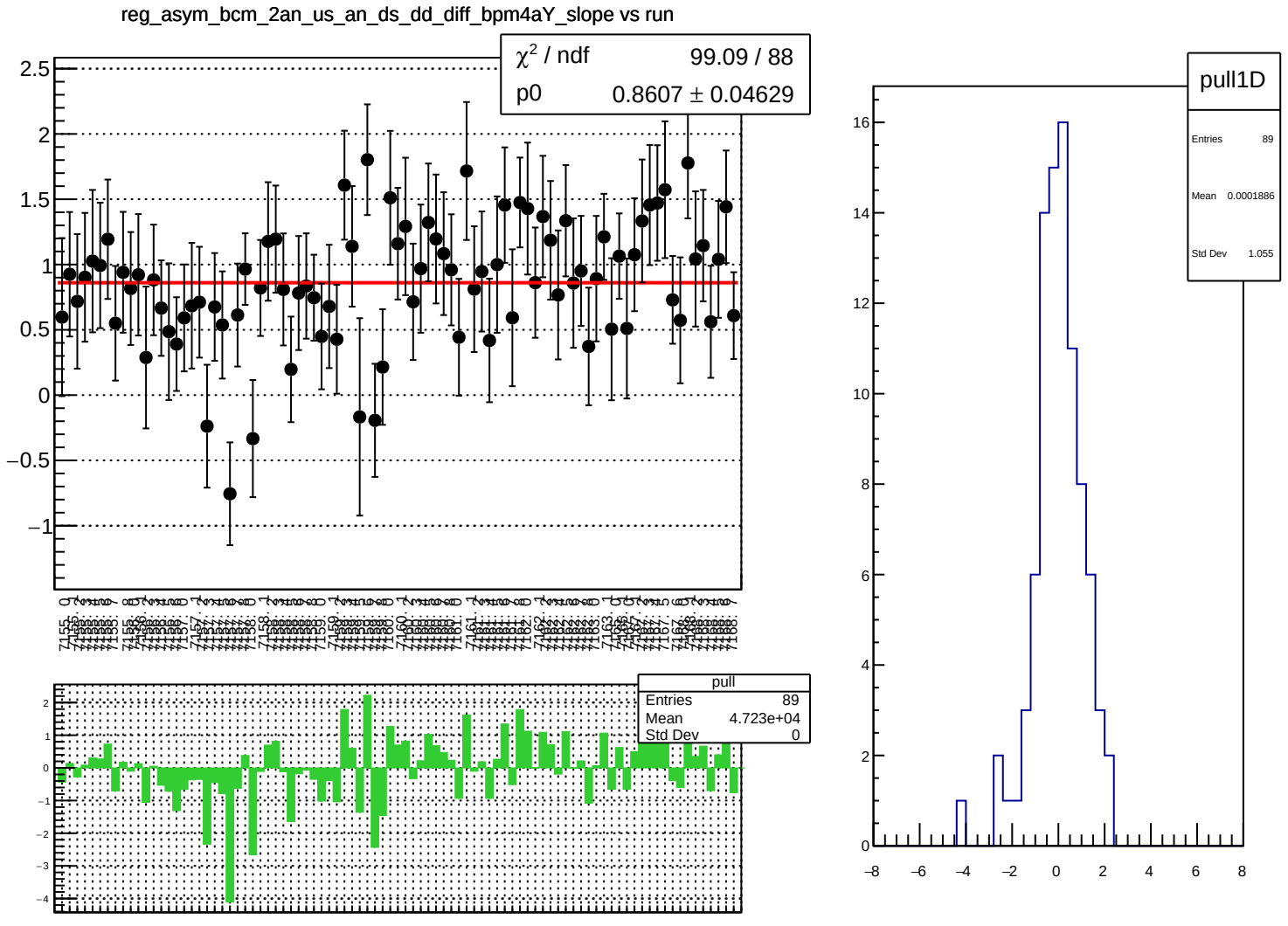

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.09 / 88
p0 −3.686 ± 0.1574
pull
Entries 89
Mean 659.4
Std Dev 0

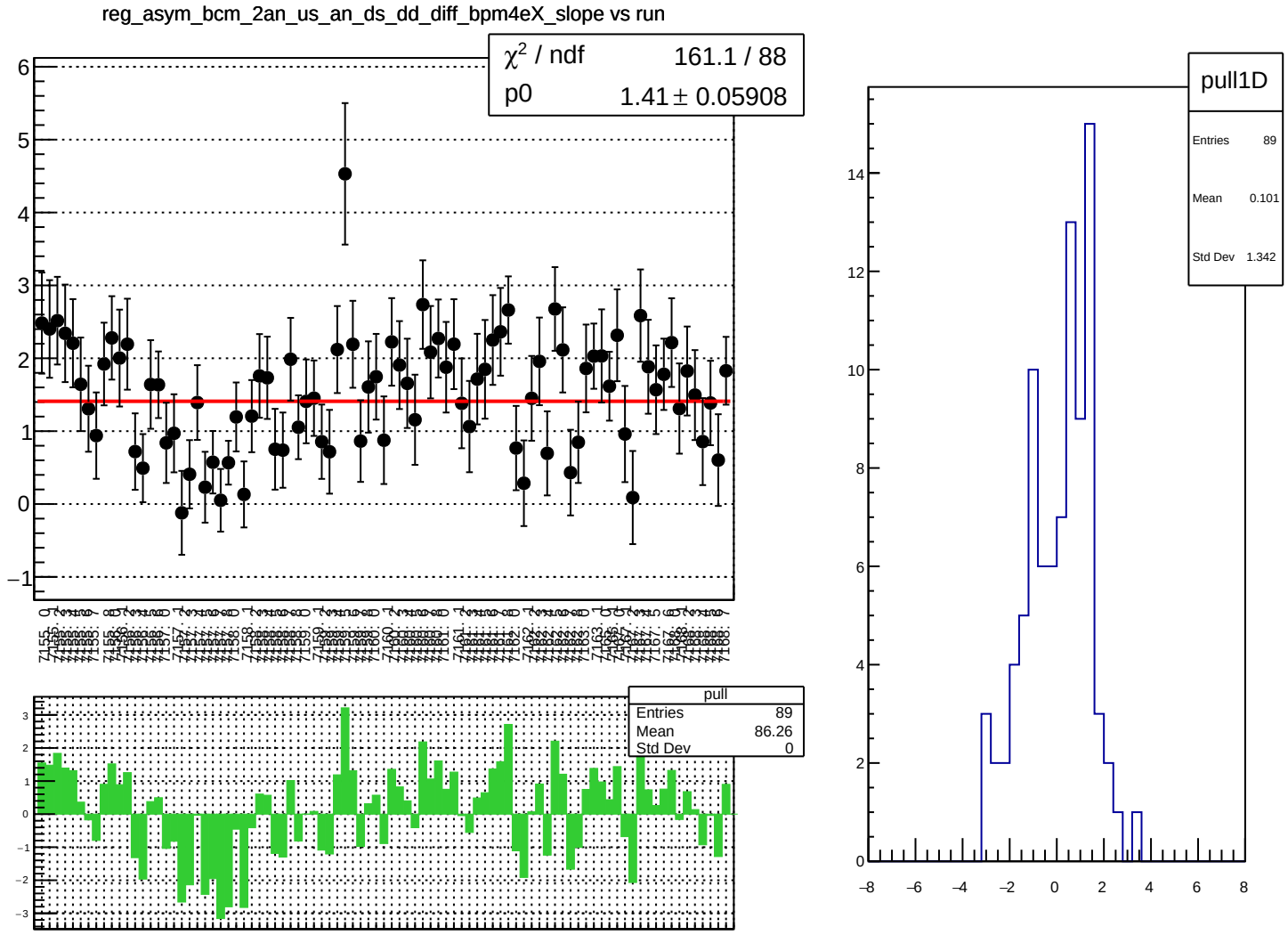

pull1D
Entries 89
Mean −0.01581
Std Dev 1.055

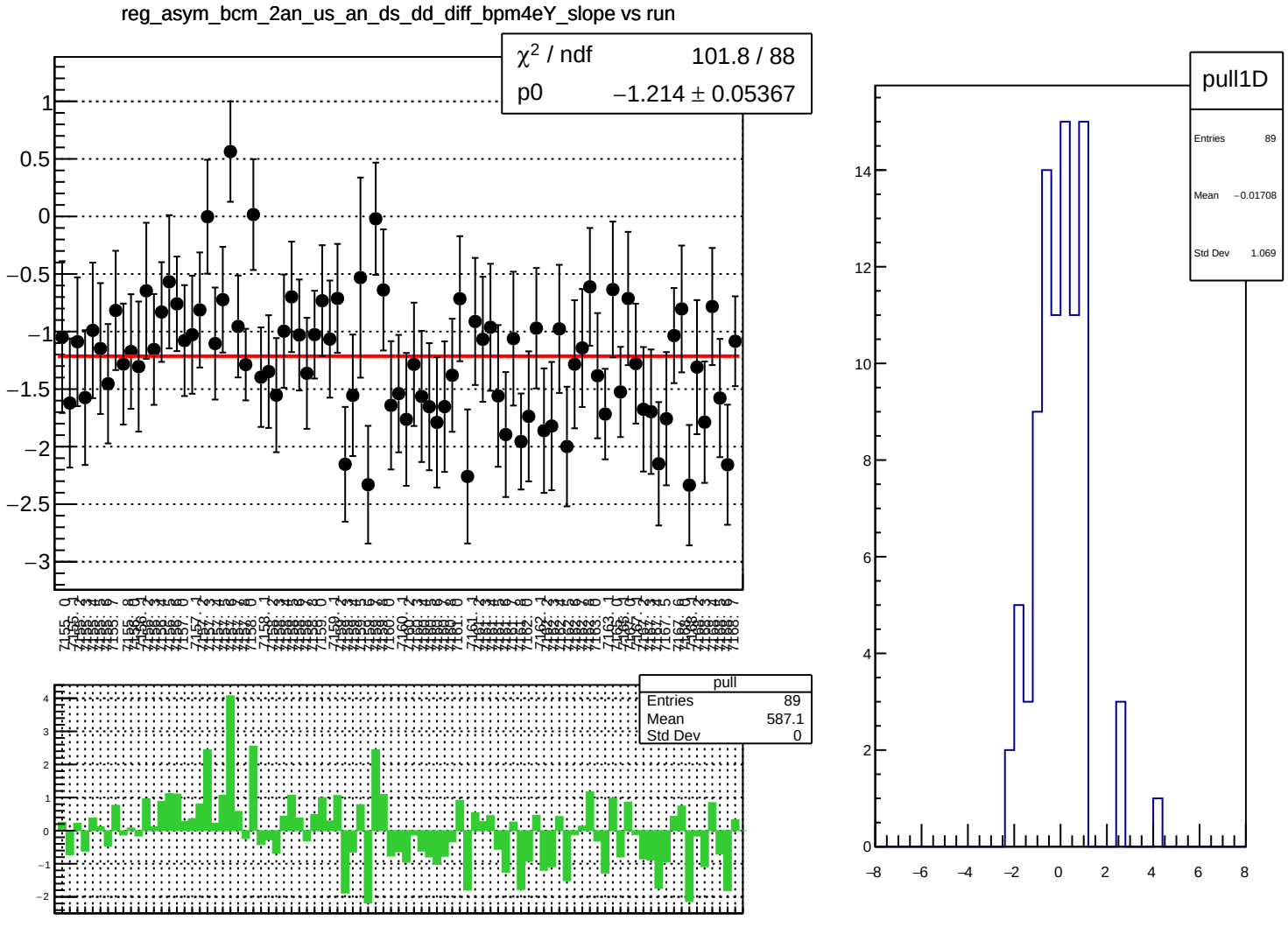

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 99.96 / 88
p0 −0.09837 ± 0.005933
pull
Entries 89
Mean −911.9
Std Dev 0

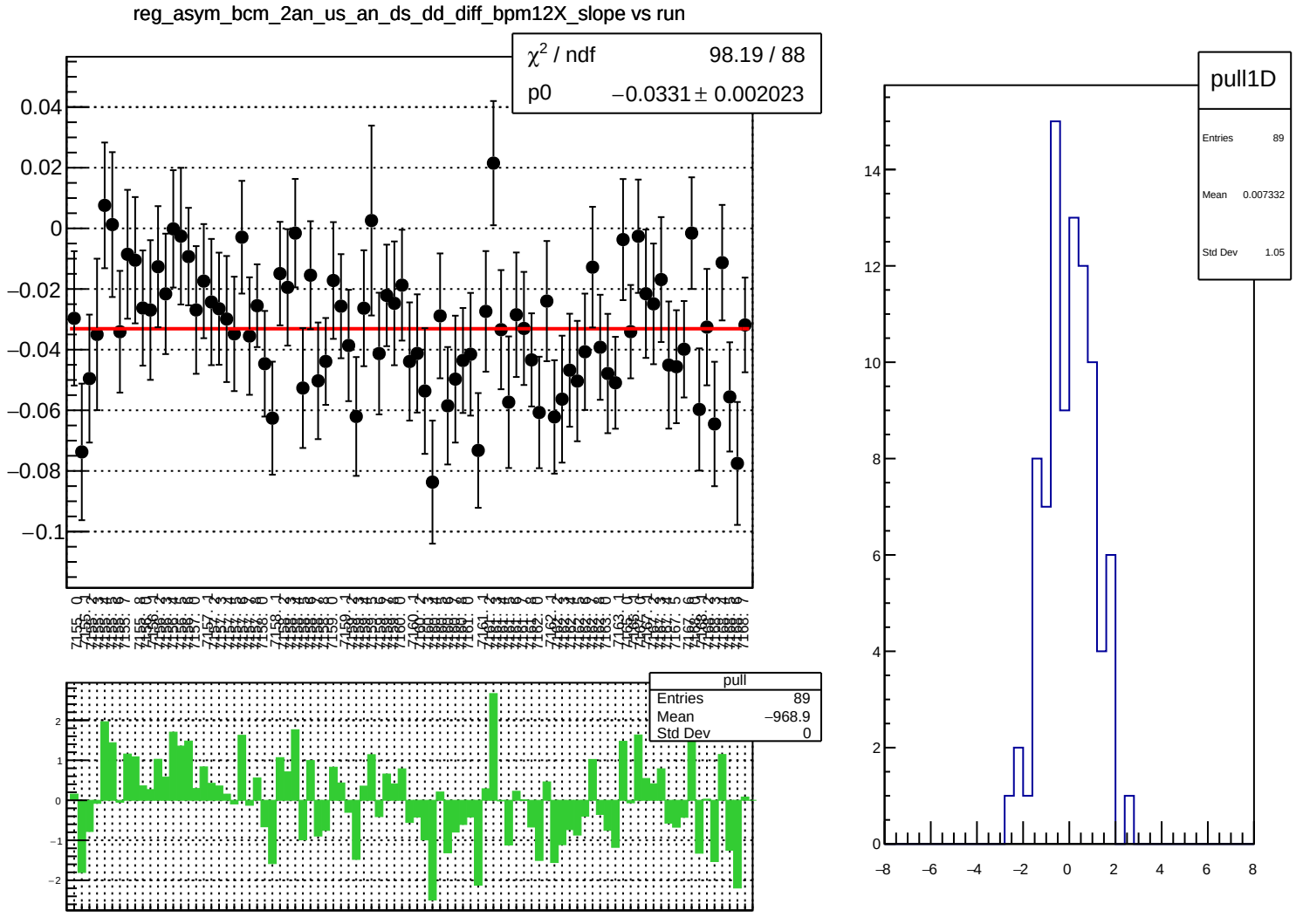

pull1D
Entries 89
Mean 0.007428
Std Dev 1.06

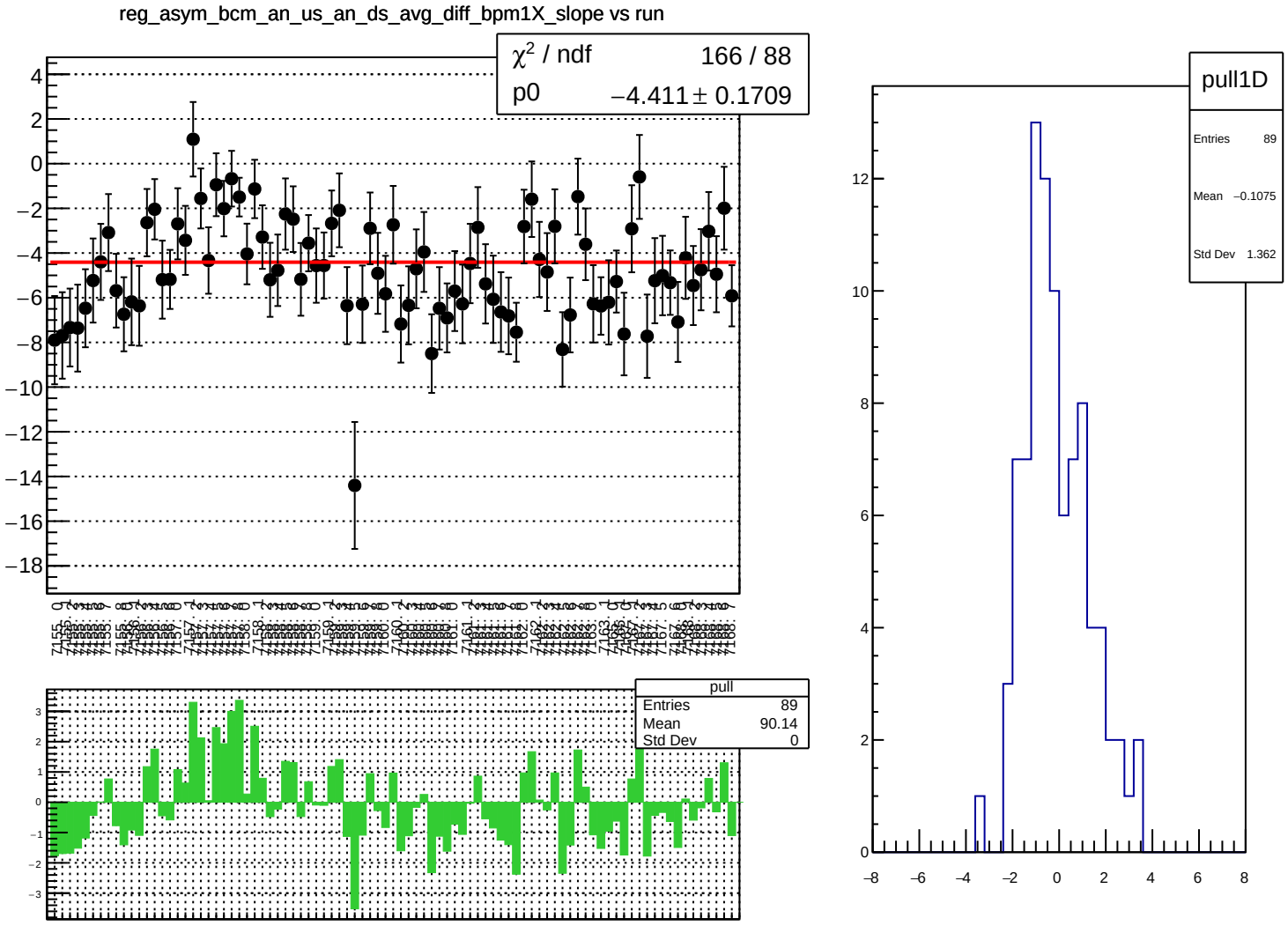

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 163.2 / 88
p0 −1.48 ± 0.05828
pull
Entries 89
Mean 87.8
Std Dev 0
pull1D
Entries 89
Mean −0.1062
Std Dev 1.35

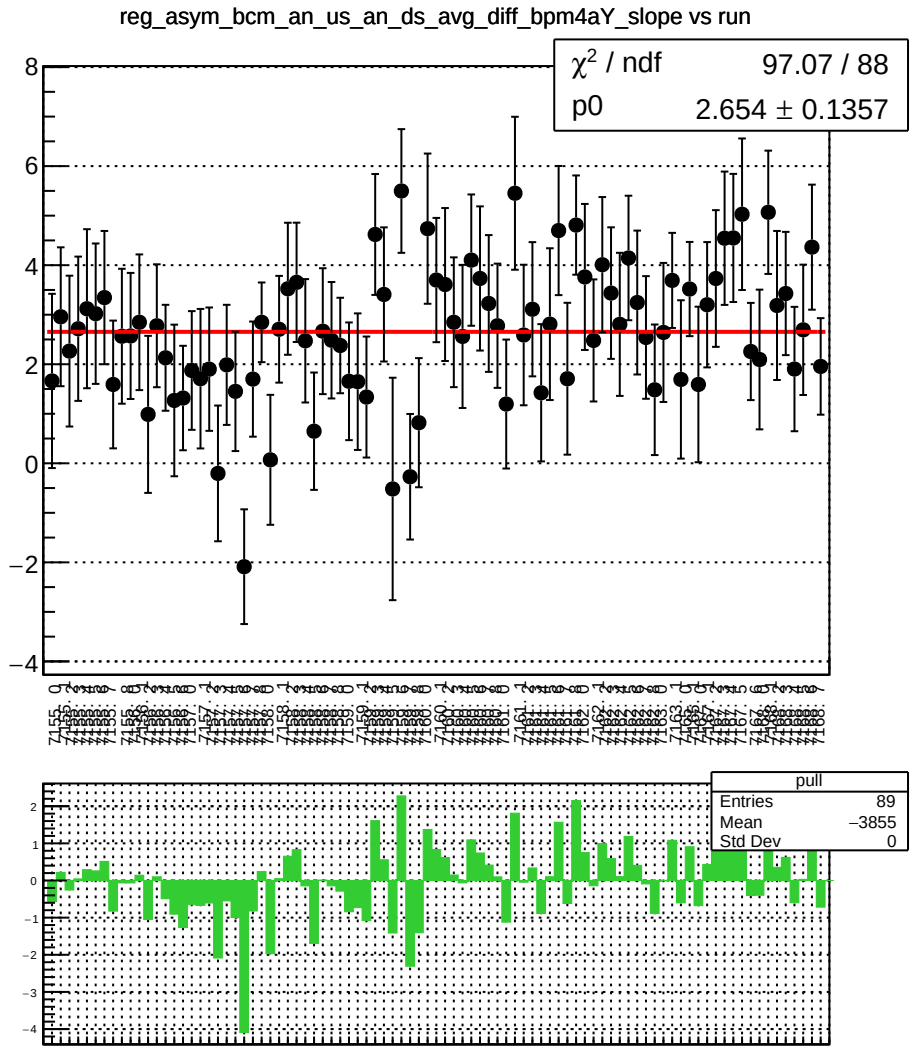

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 99.09 / 88
p0 0.8607 ± 0.04629
pull
Entries 89
Mean 4.723e+04
Std Dev 0
pull1D
Entries 89
Mean 0.0001886
Std Dev 1.055

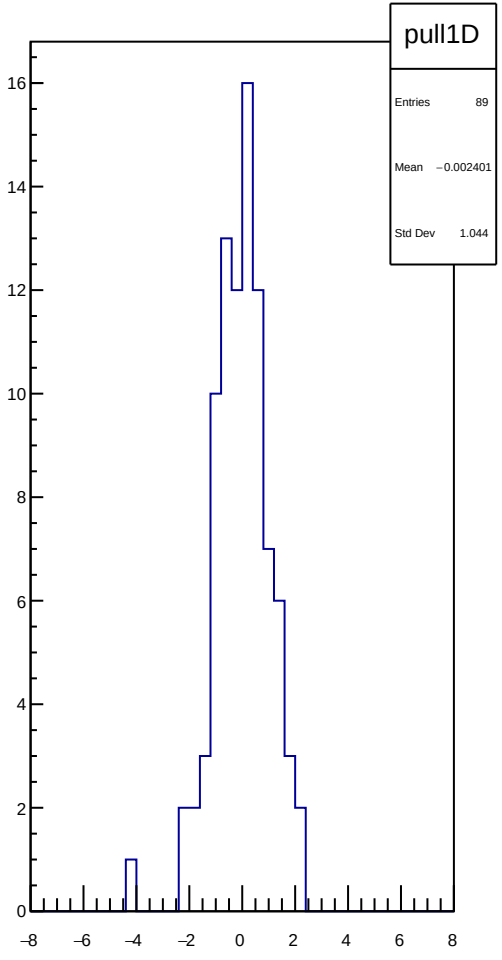

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 161.1 / 88
p0 1.41 ± 0.05908
pull
Entries 89
Mean 86.26
Std Dev 0
pull1D
Entries 89
Mean 0.101
Std Dev 1.342

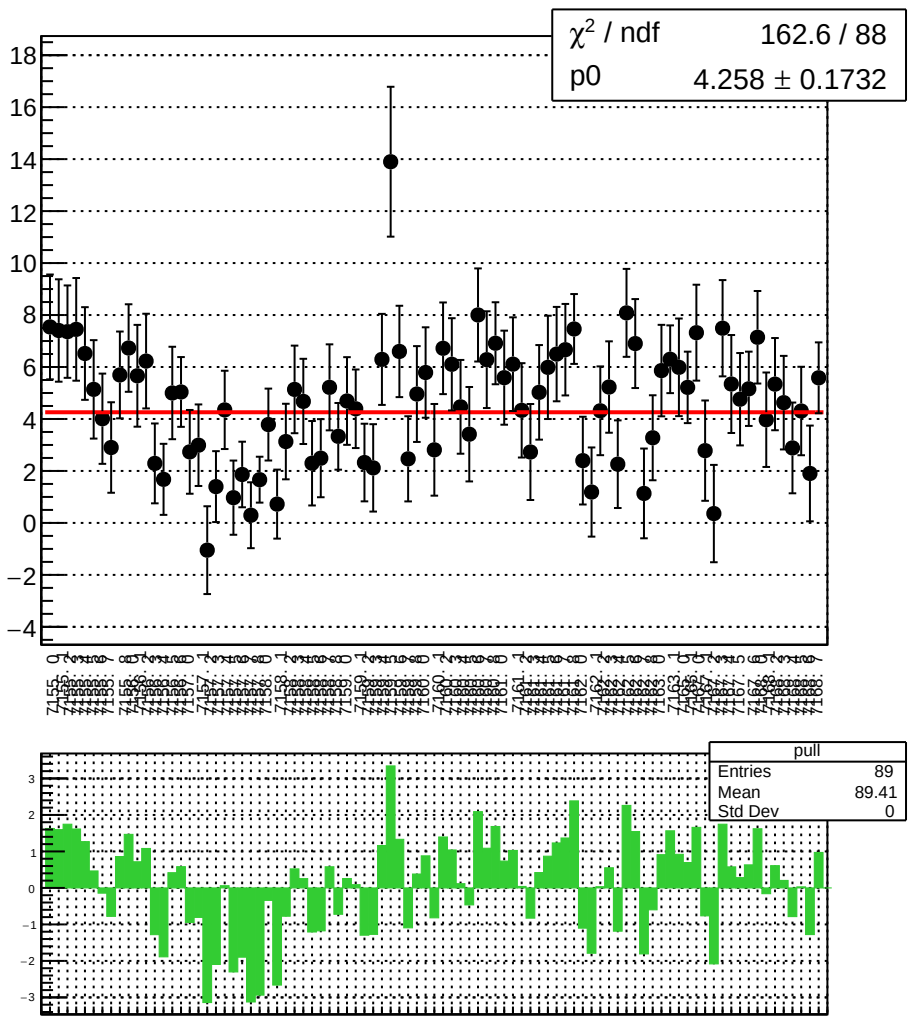

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 101.8 / 88
p0 −1.214 ± 0.05367
pull
Entries 89
Mean 587.1
Std Dev 0
pull1D
Entries 89
Mean −0.01708
Std Dev 1.069

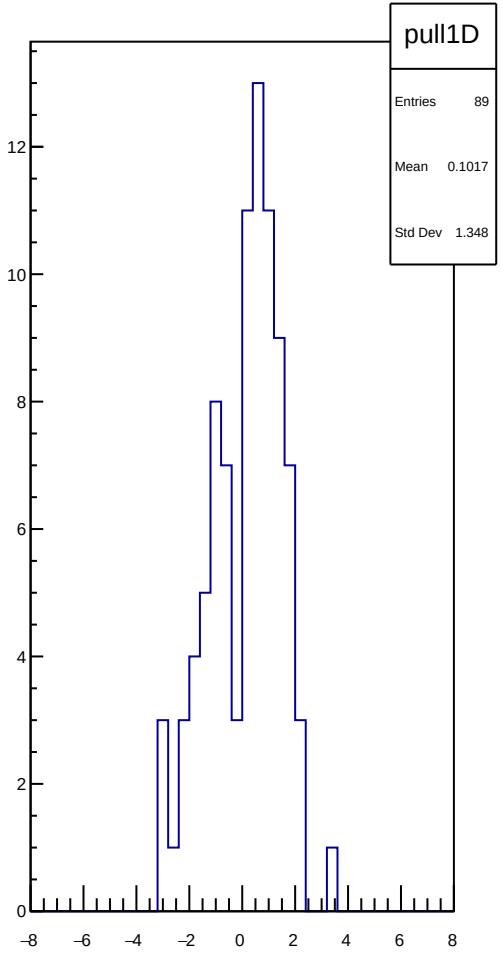

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 98.19 / 88
p0 −0.0331 ± 0.002023
pull
Entries 89
Mean −968.9
Std Dev 0
pull1D
Entries 89
Mean 0.007332
Std Dev 1.05

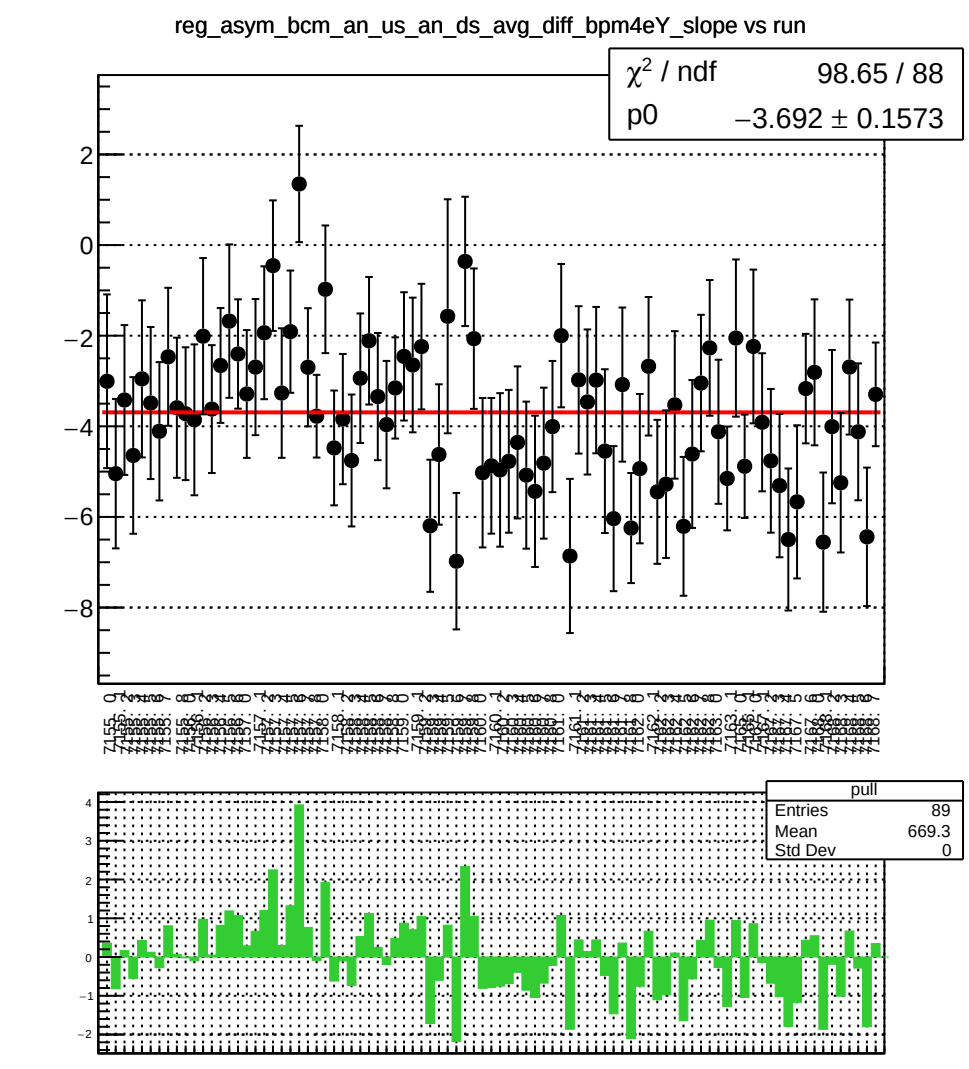

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 166 / 88
p0 −4.411 ± 0.1709
pull
Entries 89
Mean 90.14
Std Dev 0
pull1D
Entries 89
Mean −0.1075
Std Dev 1.362

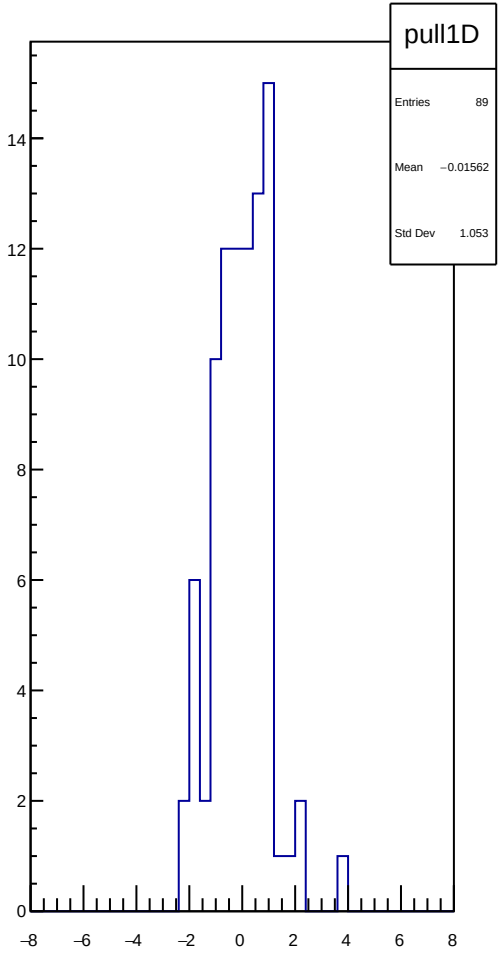

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 97.07 / 88
p0 2.654 ± 0.1357
pull
Entries 89
Mean −3855
Std Dev 0

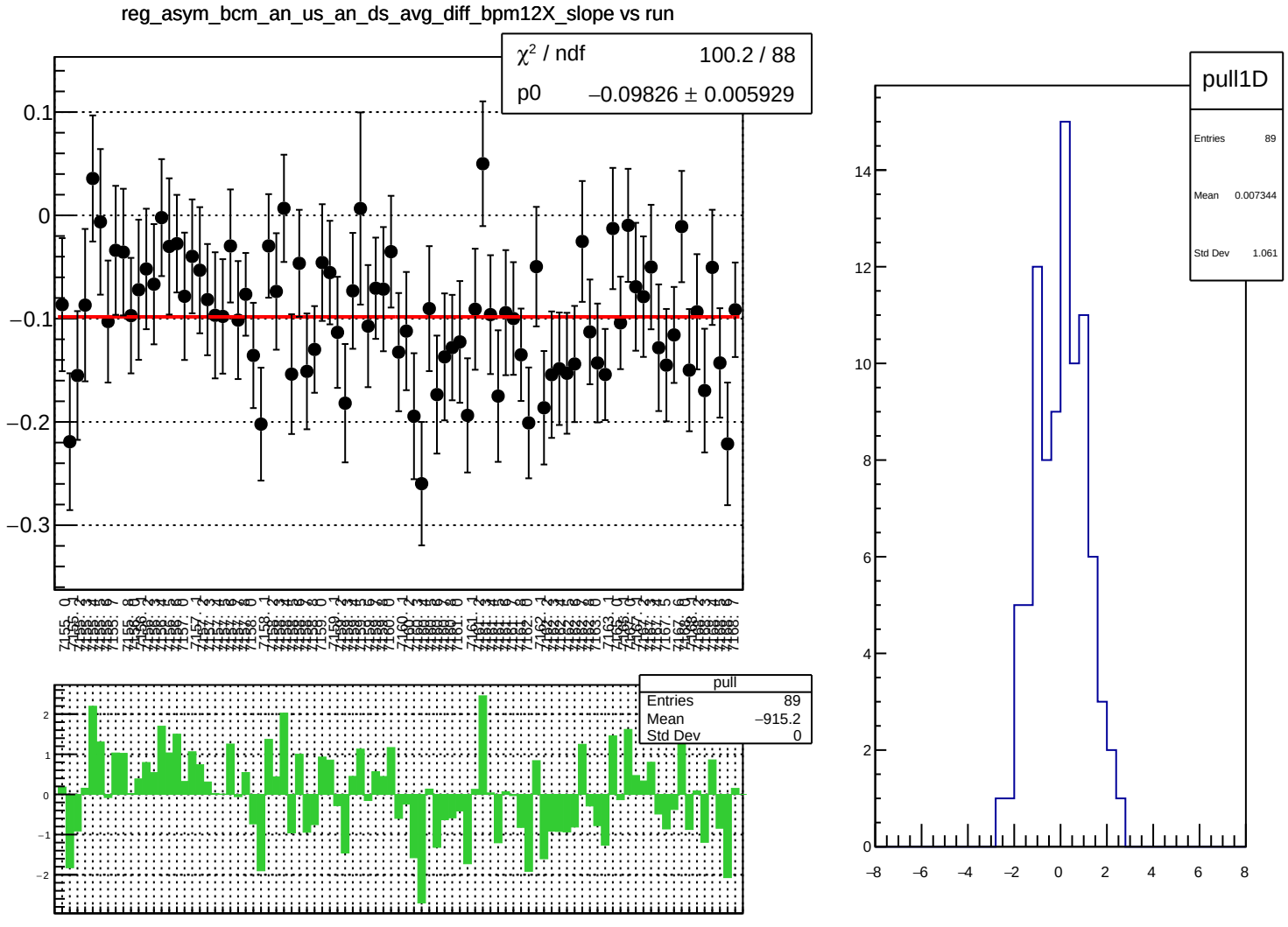

pull1D
Entries 89
Mean −0.002401
Std Dev 1.044

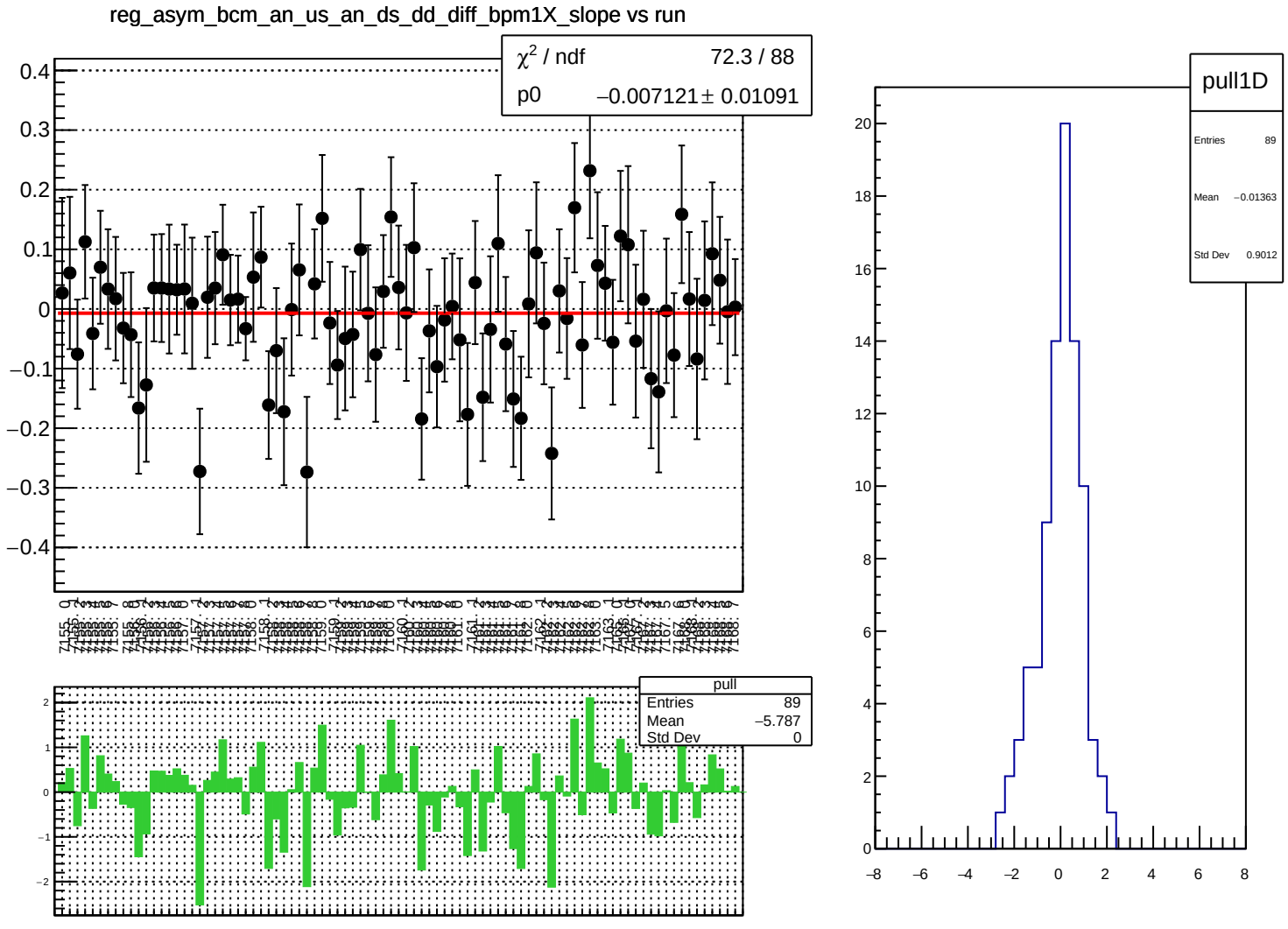

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 162.6 / 88
p0 4.258 ± 0.1732
pull
Entries 89
Mean 89.41
Std Dev 0

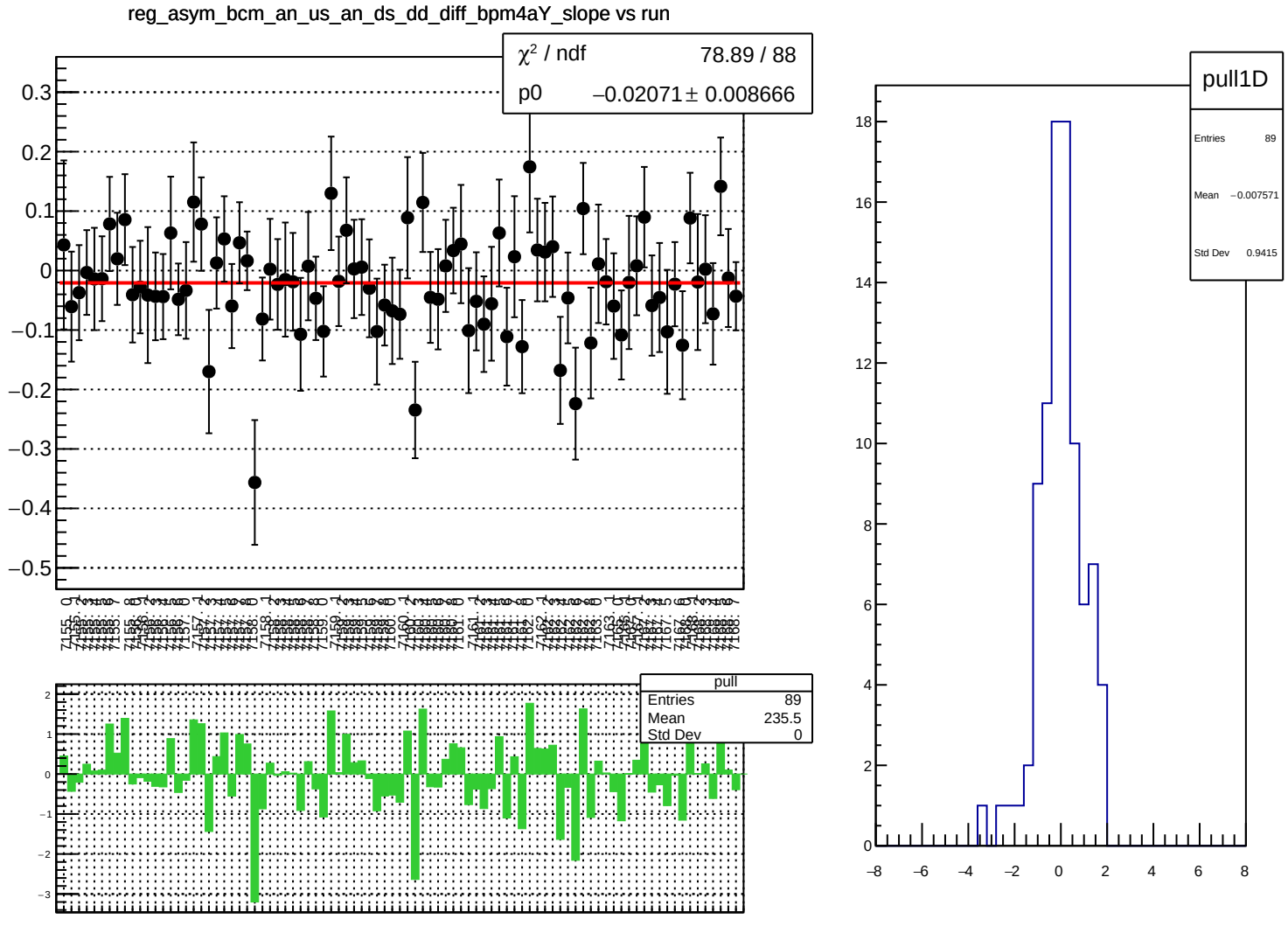

pull1D
Entries 89
Mean 0.1017
Std Dev 1.348

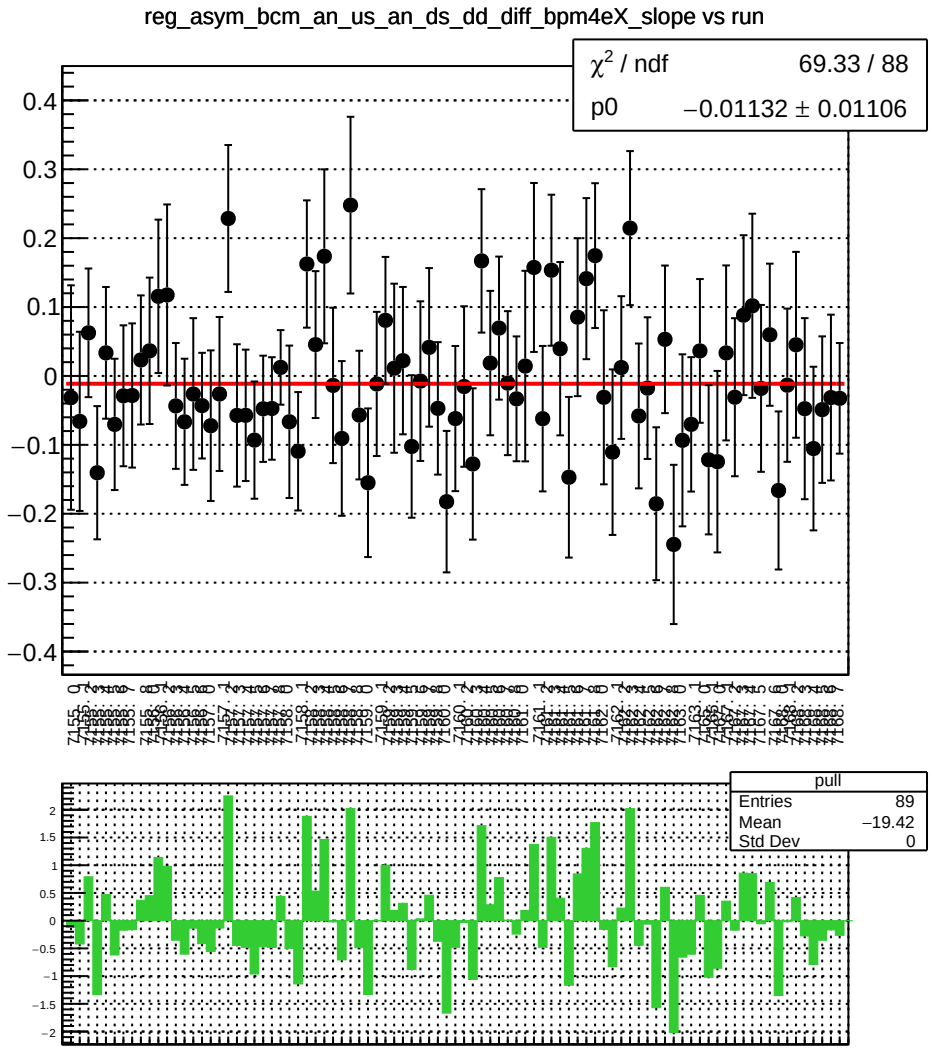

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.65 / 88
p0 −3.692 ± 0.1573
pull
Entries 89
Mean 669.3
Std Dev 0

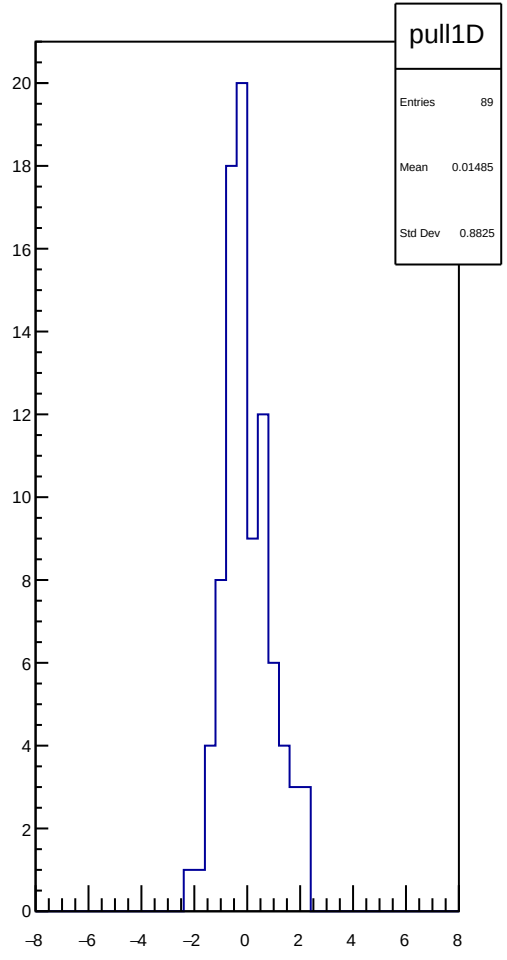

pull1D
Entries 89
Mean −0.01562
Std Dev 1.053

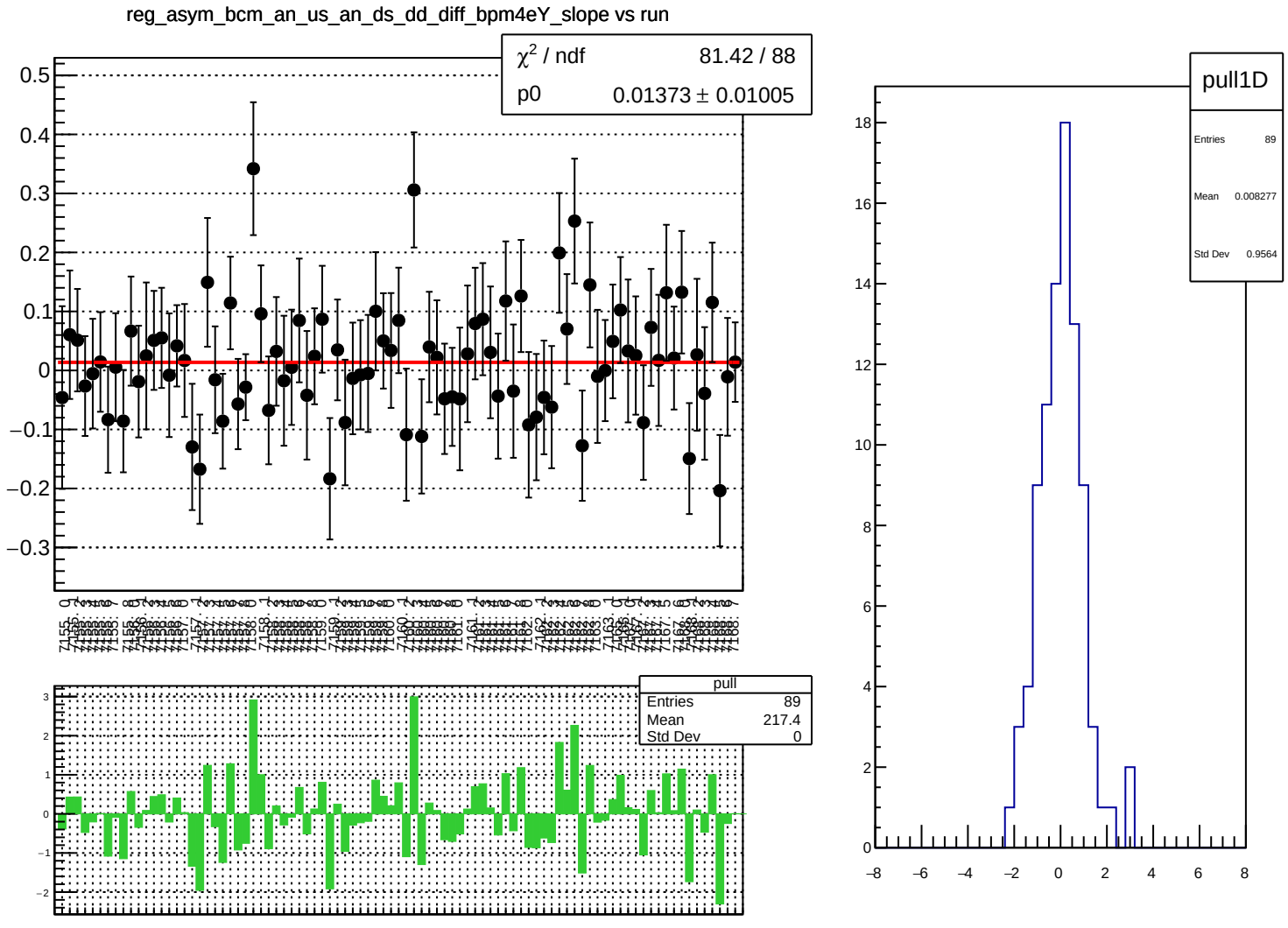

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 100.2 / 88
p0 −0.09826 ± 0.005929
pull
Entries 89
Mean −915.2
Std Dev 0
pull1D
Entries 89
Mean 0.007344
Std Dev 1.061

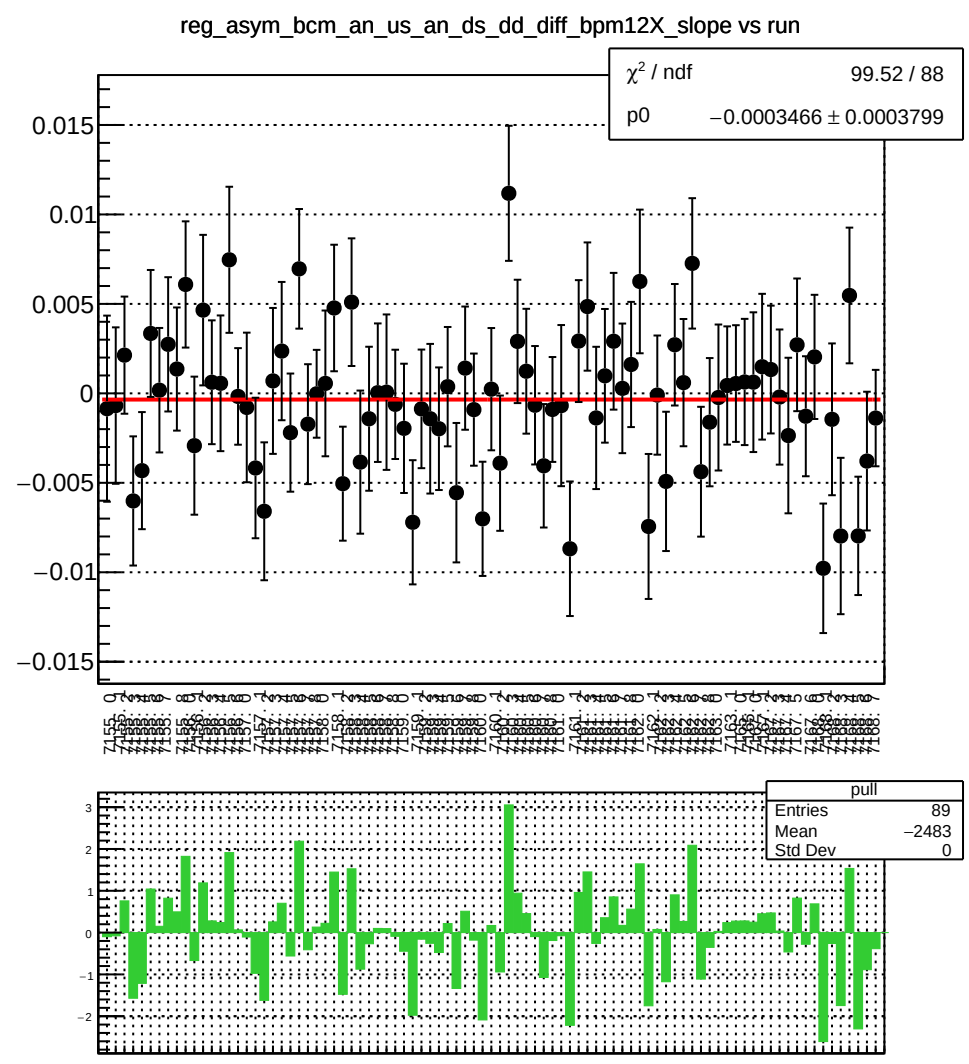

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 72.3 / 88
p0 −0.007121 ± 0.01091
pull
Entries 89
Mean −5.787
Std Dev 0
pull1D
Entries 89
Mean −0.01363
Std Dev 0.9012

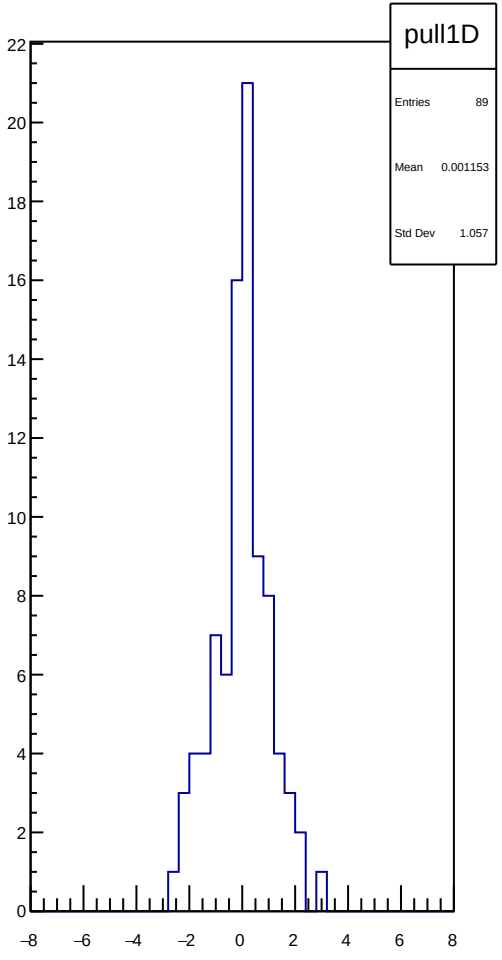

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.89 / 88
p0 −0.02071 ± 0.008666
pull
Entries 89
Mean 235.5
Std Dev 0
pull1D
Entries 89
Mean −0.007571
Std Dev 0.9415

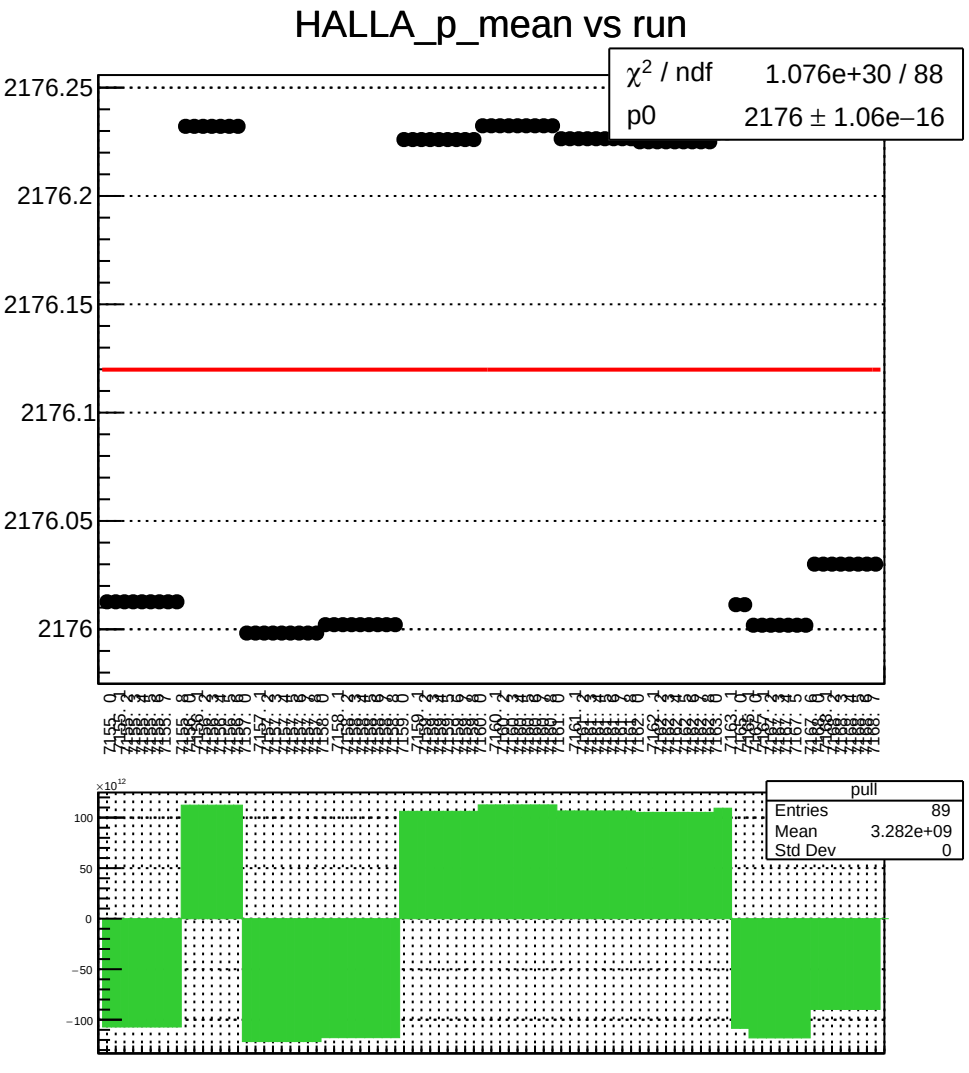

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 69.33 / 88
p0 −0.01132 ± 0.01106
pull
Entries 89
Mean −19.42
Std Dev 0

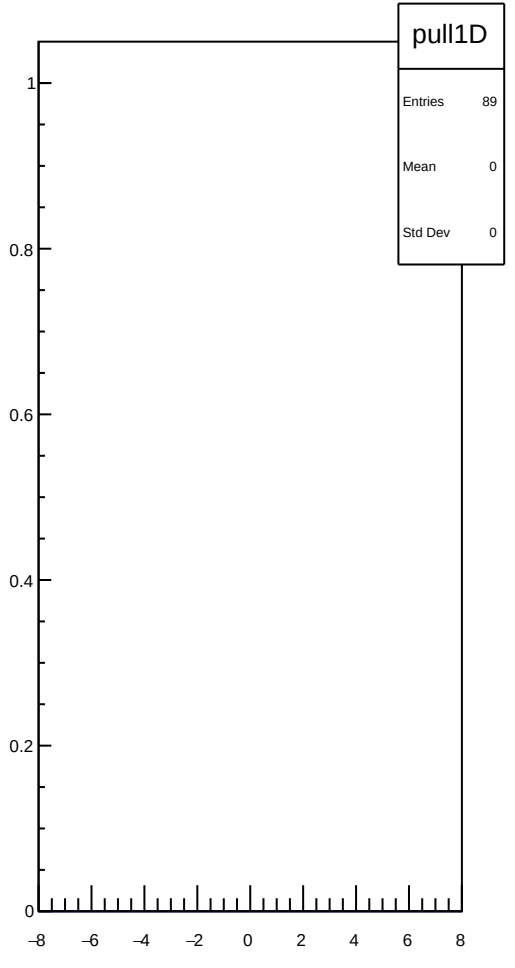

pull1D
Entries 89
Mean 0.01485
Std Dev 0.8825

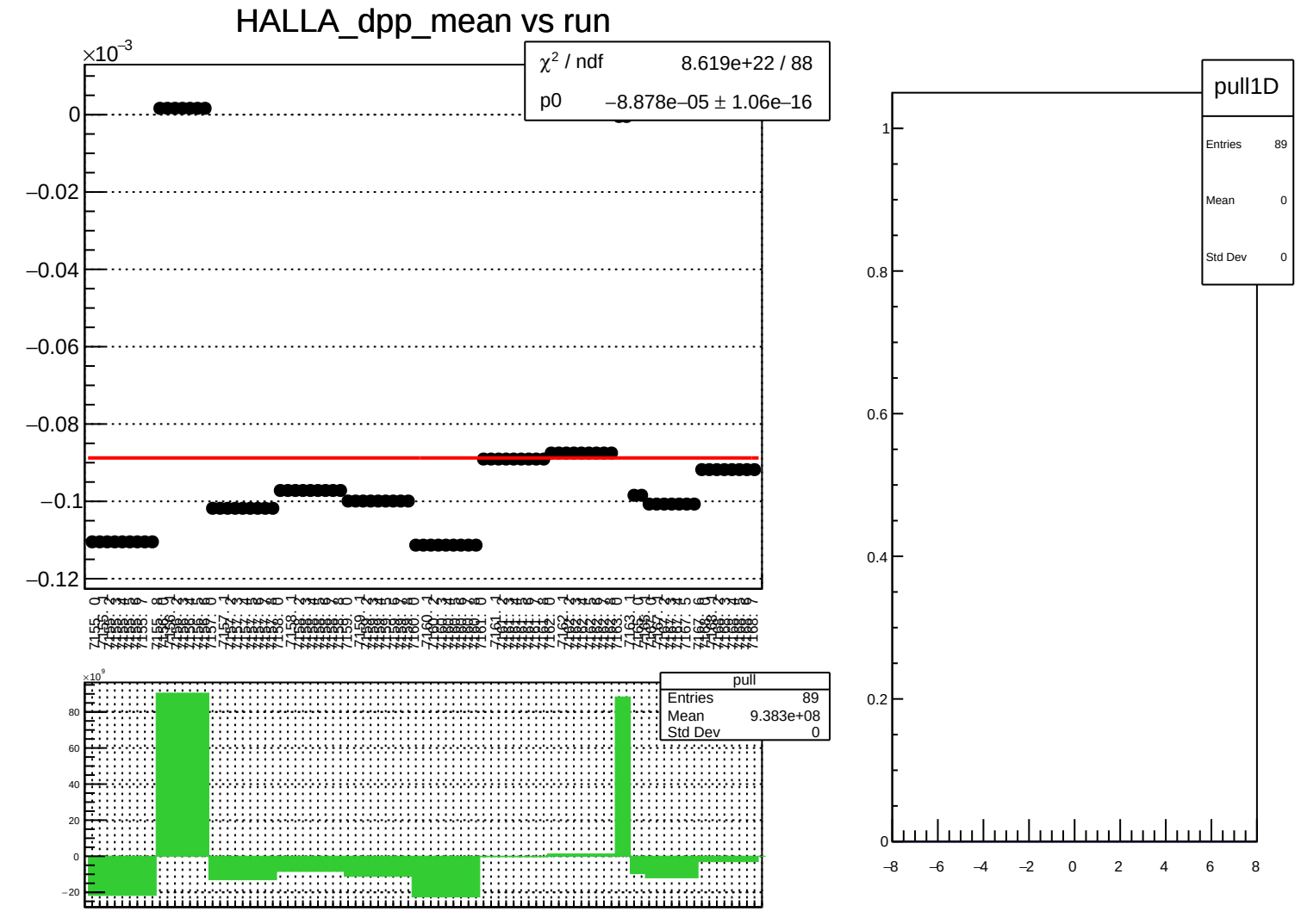

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.42 / 88
p0 0.01373 ± 0.01005
pull
Entries 89
Mean 217.4
Std Dev 0
pull1D
Entries 89
Mean 0.008277
Std Dev 0.9564

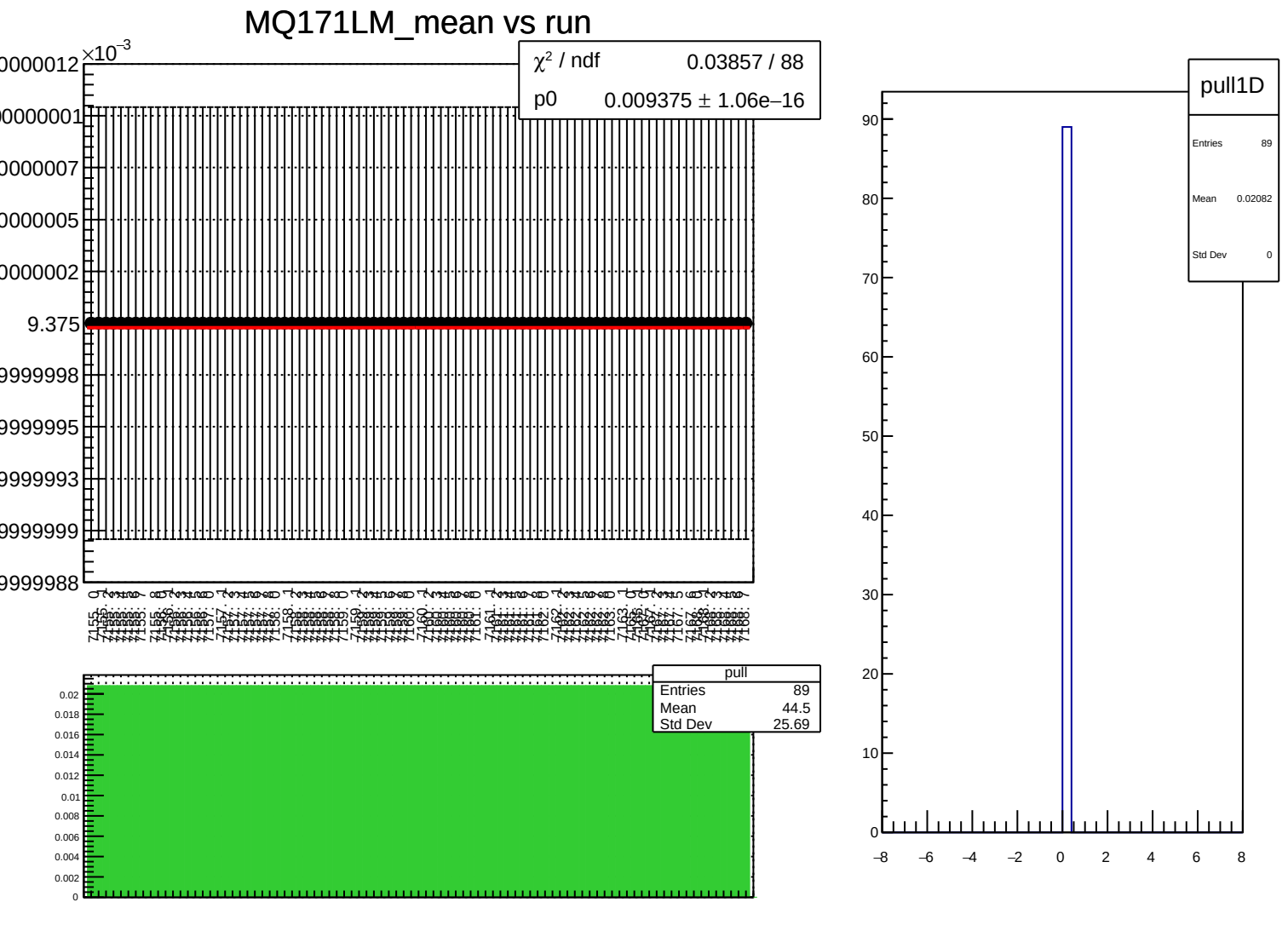

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 99.52 / 88
p0 −0.0003466 ± 0.0003799
pull
Entries 89
Mean −2483
Std Dev 0

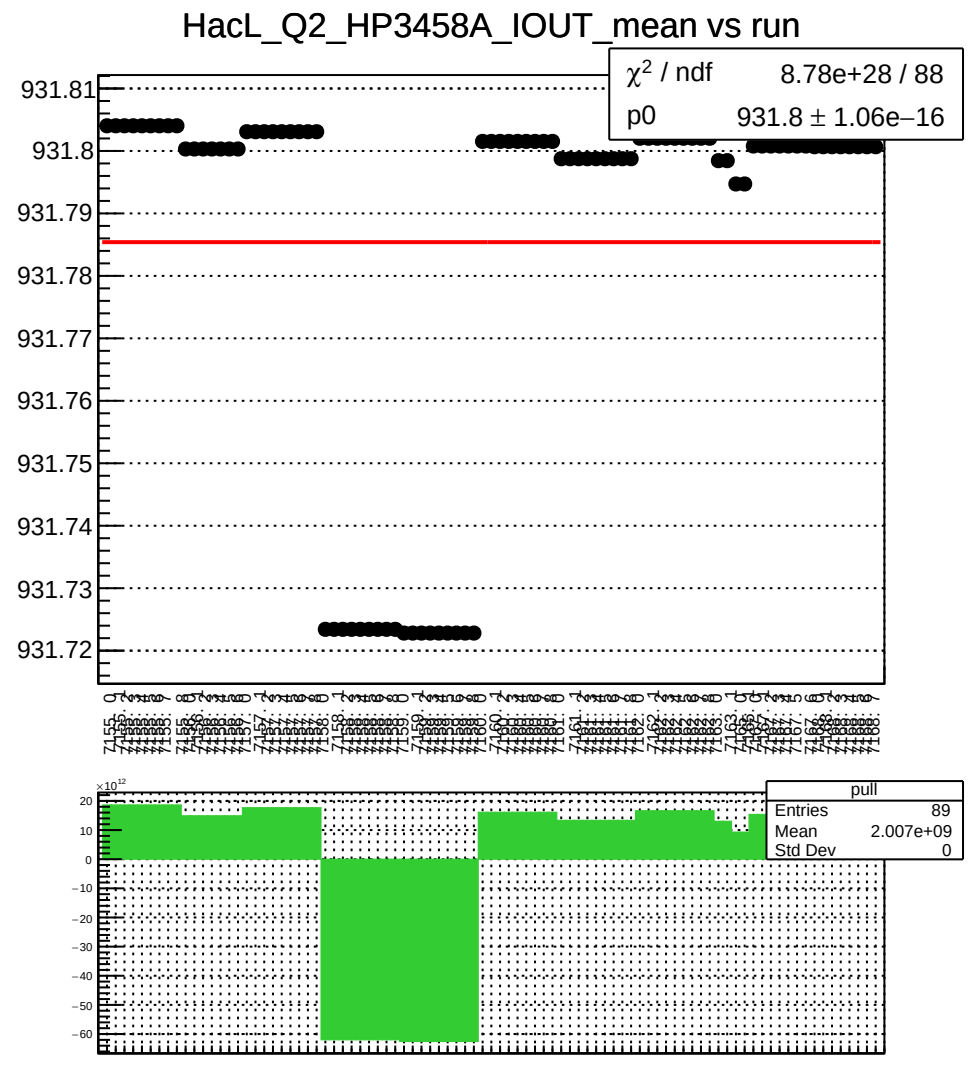

pull1D
Entries 89
Mean 0.001153
Std Dev 1.057

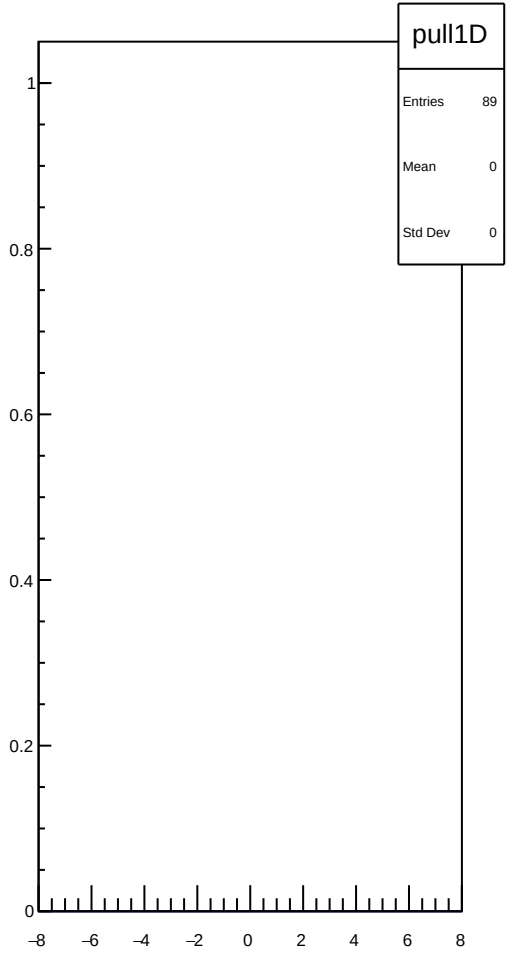

HALLA_p_mean vs run
χ² / ndf 1.076e+30 / 88
p0 2176 ± 1.06e−16
2176.25
2176.2
2176.15
2176.1
2176.05
2176
pull
Entries 89
Mean 3.282e+09
Std Dev 0
×10¹²
100
50
0
−50
−100

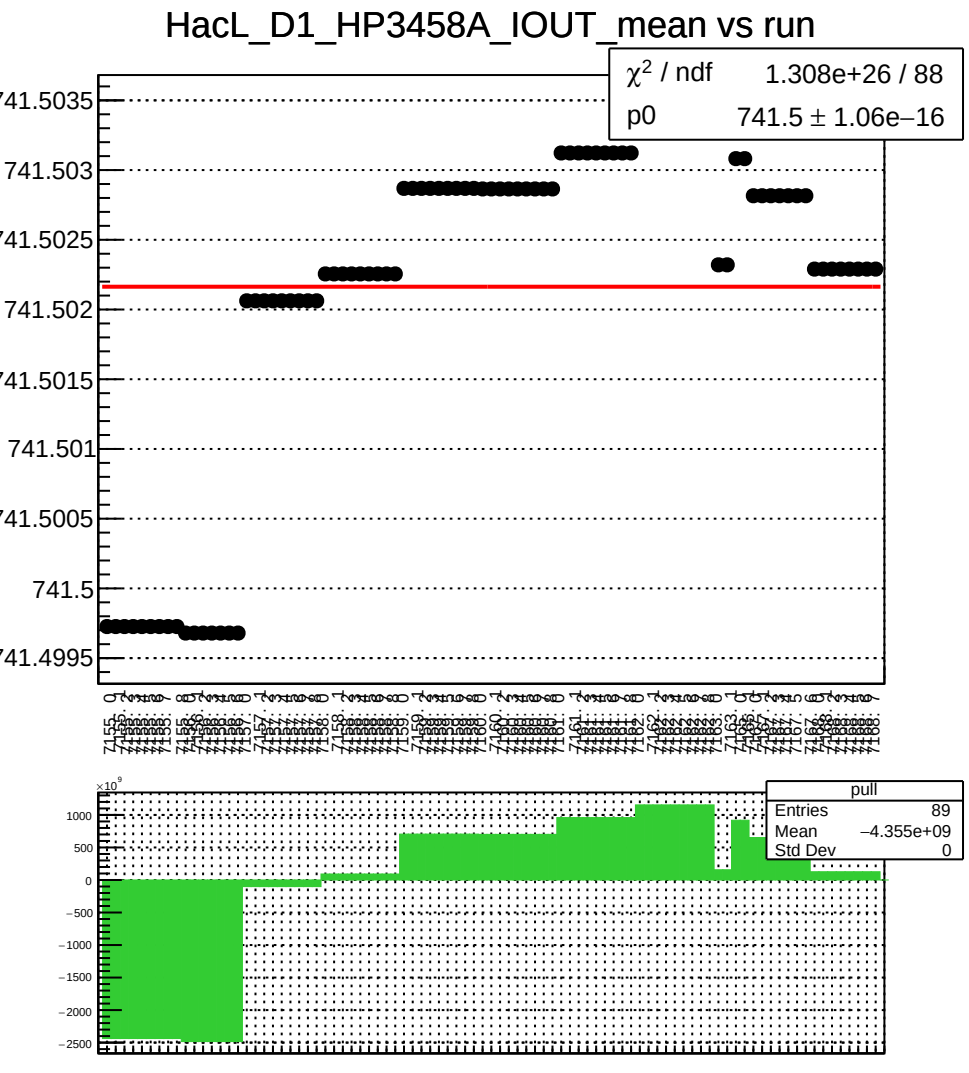

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

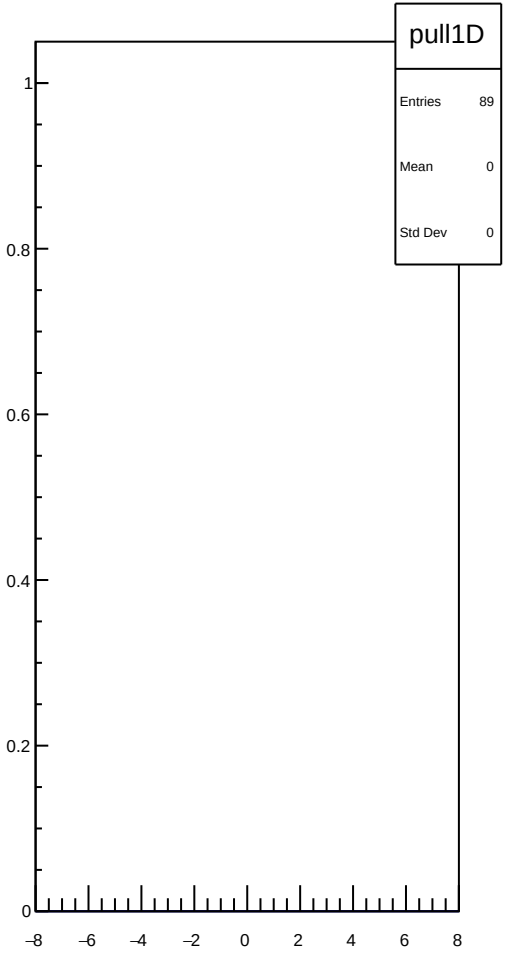

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 8.619e+22 / 88
p0 −8.878e−05 ± 1.06e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
×10⁹
80
60
40
20
0
−20
pull
Entries 89
Mean 9.383e+08
Std Dev 0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

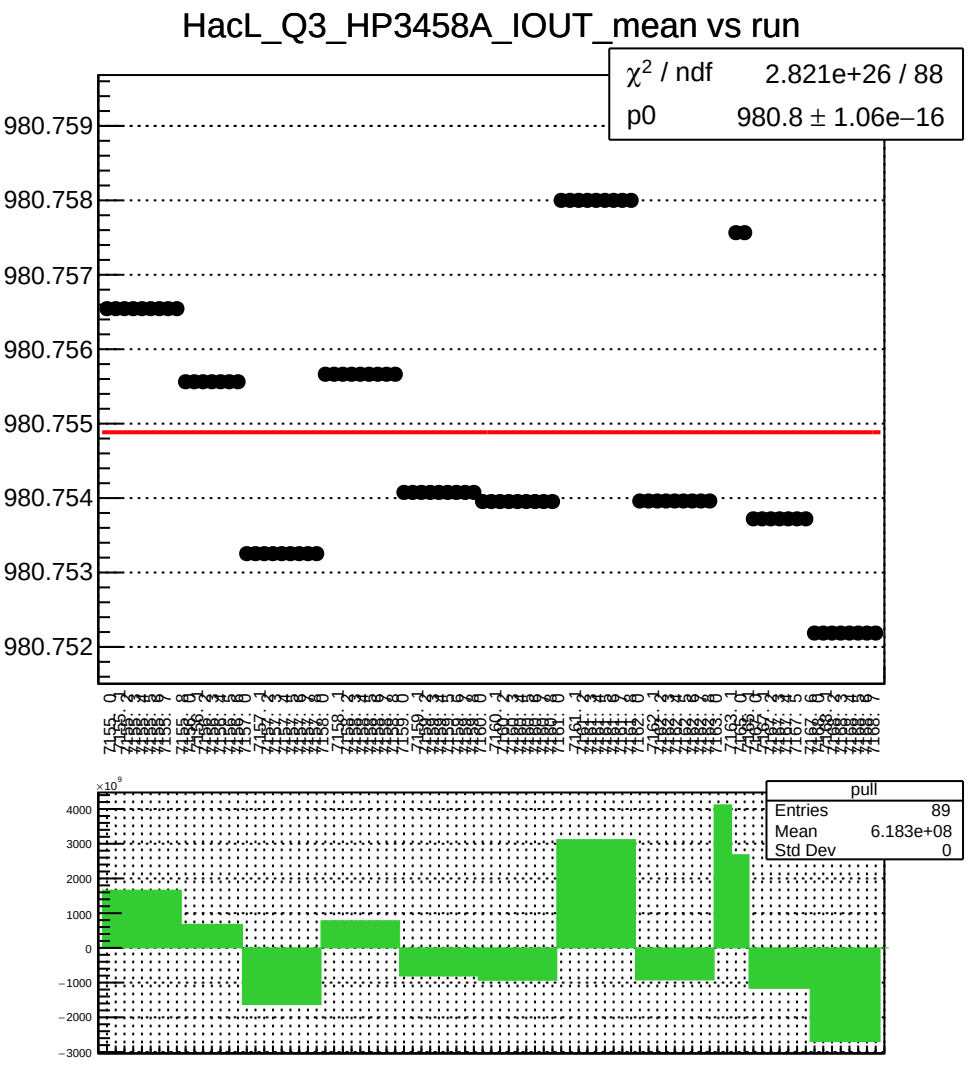

MQ171LM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

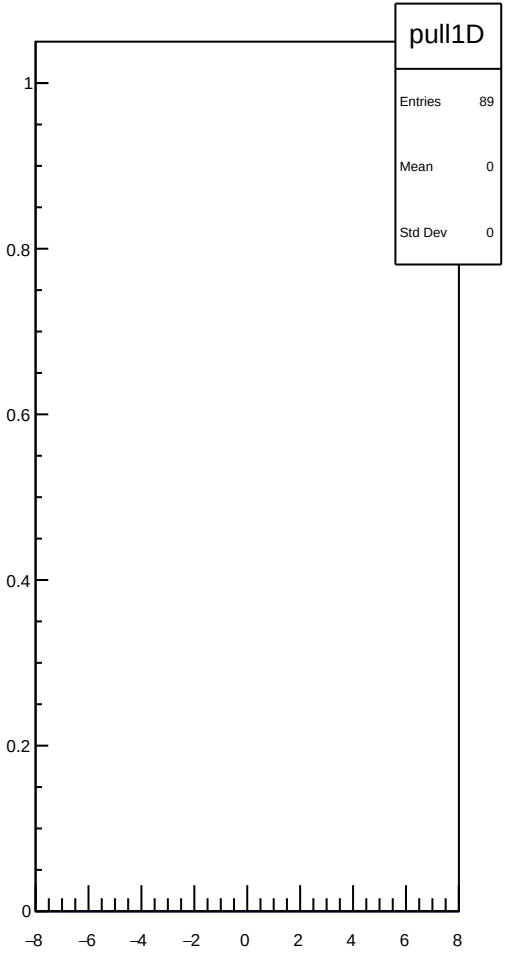

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 8.78e+28 / 88
p0 931.8 ± 1.06e−16
931.81
931.8
931.79
931.78
931.77
931.76
931.75
931.74
931.73
931.72
pull
Entries 89
Mean 2.007e+09
Std Dev 0
×10¹²
20
10
0
−10
−20
−30
−40
−50
−60

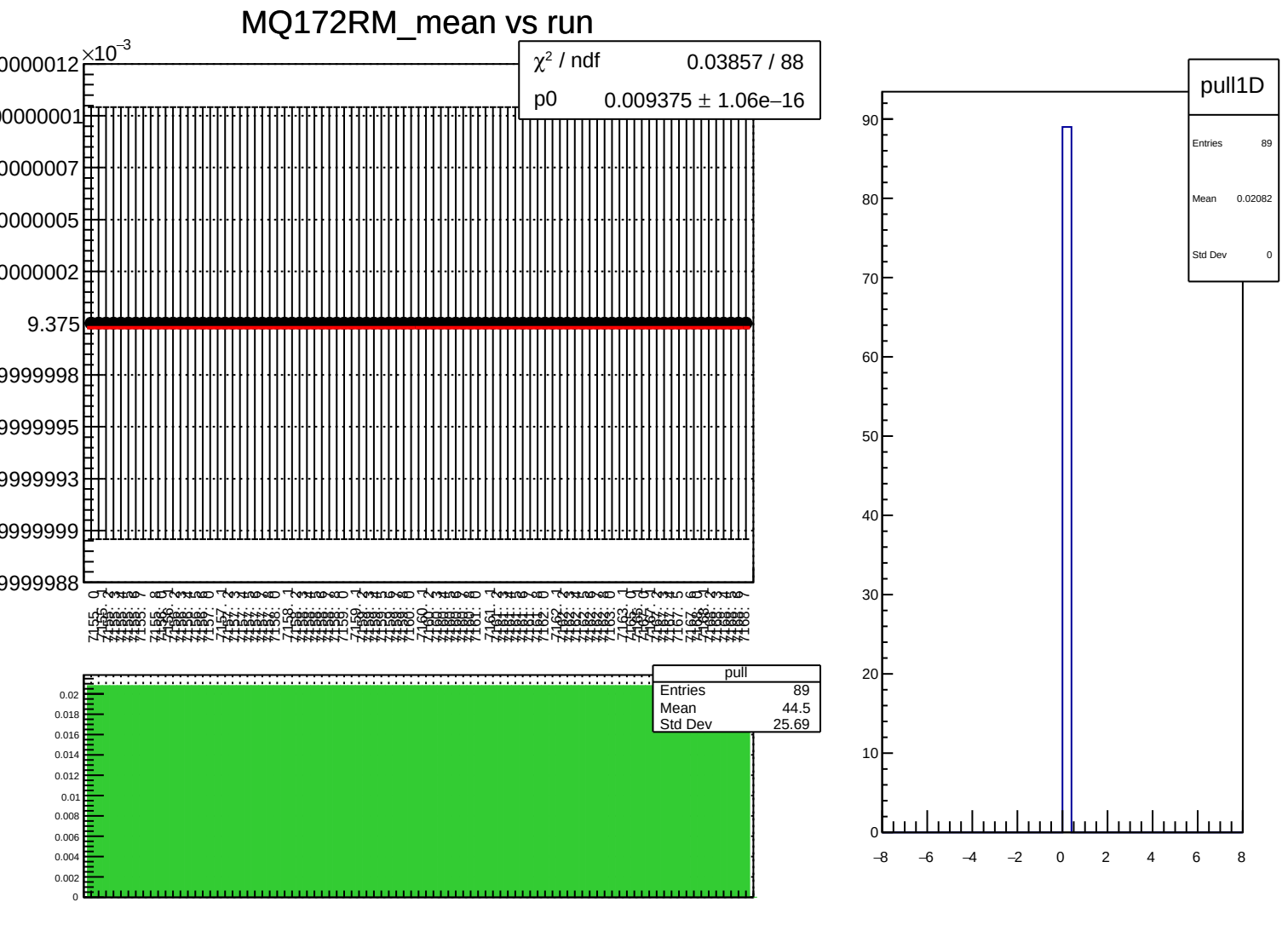

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

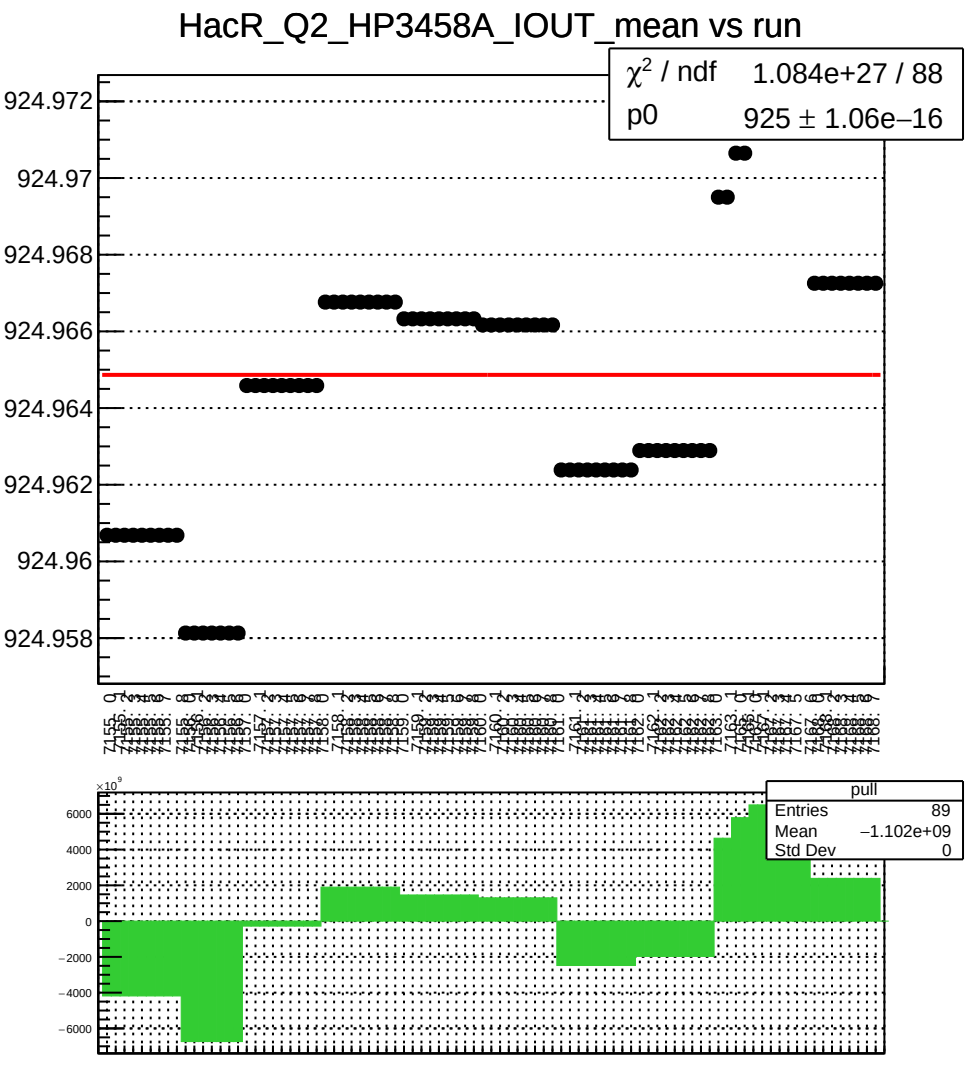

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.308e+26 / 88
p0 741.5 ± 1.06e−16
741.5035
741.503
741.5025
741.502
741.5015
741.501
741.5005
741.5
741.4995
pull
Entries 89
Mean −4.355e+09
Std Dev 0
×10⁹
1000
500
0
−500
−1000
−1500
−2000
−2500

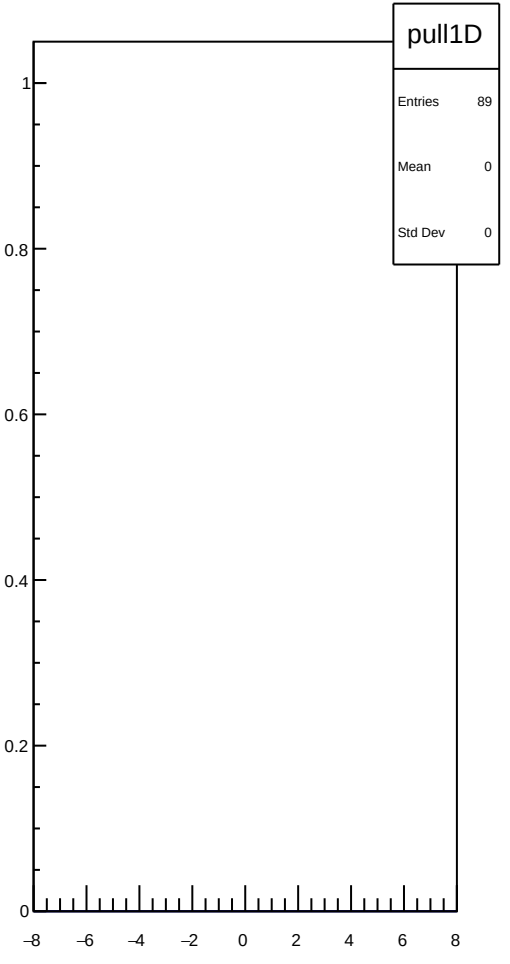

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

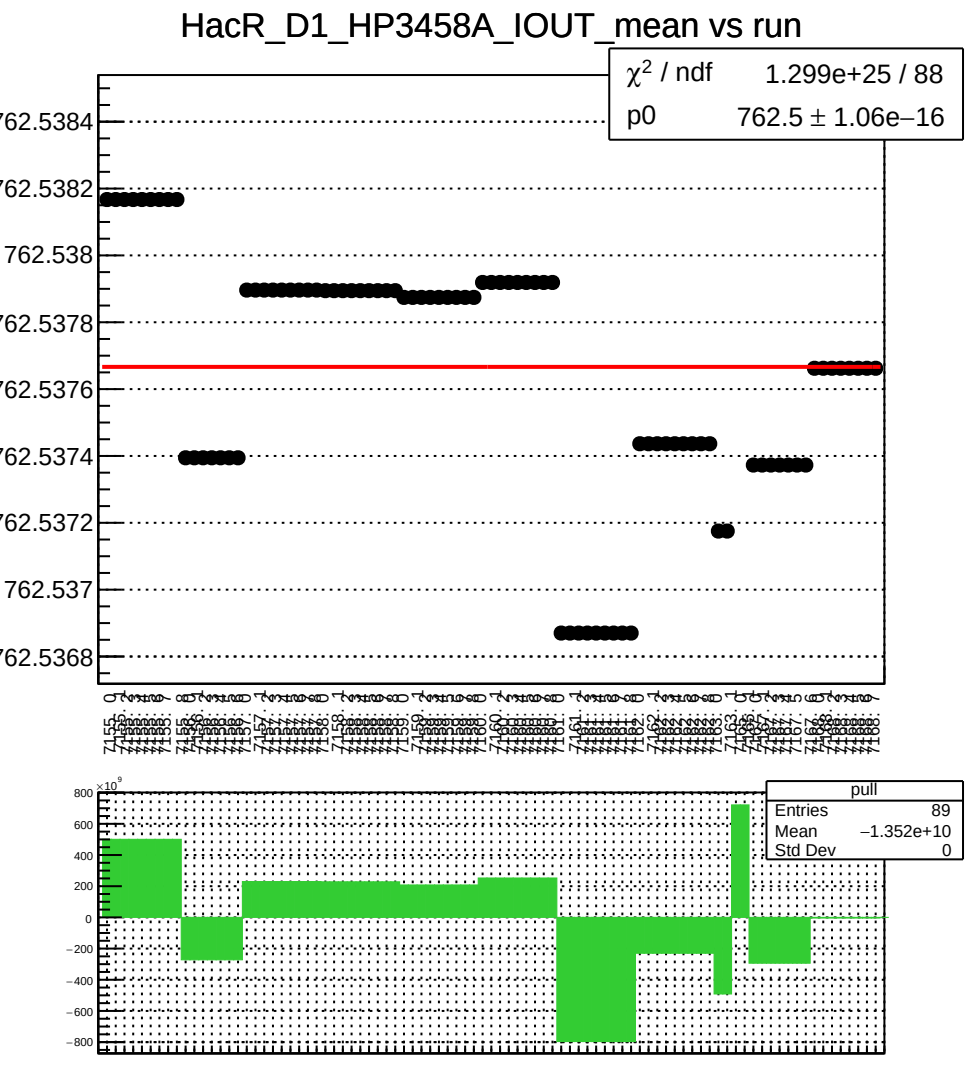

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 2.821e+26 / 88
p0 980.8 ± 1.06e−16
980.759
980.758
980.757
980.756
980.755
980.754
980.753
980.752
pull
Entries 89
Mean 6.183e+08
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000

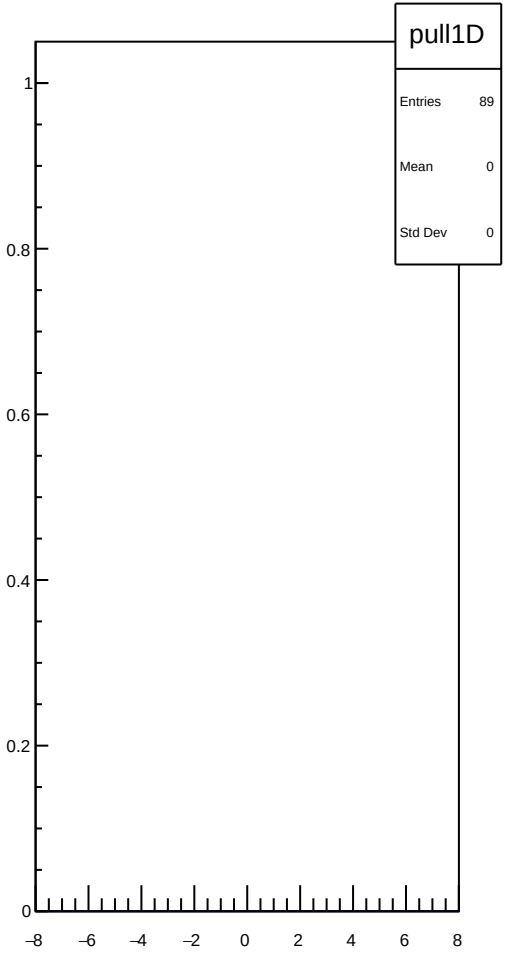

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

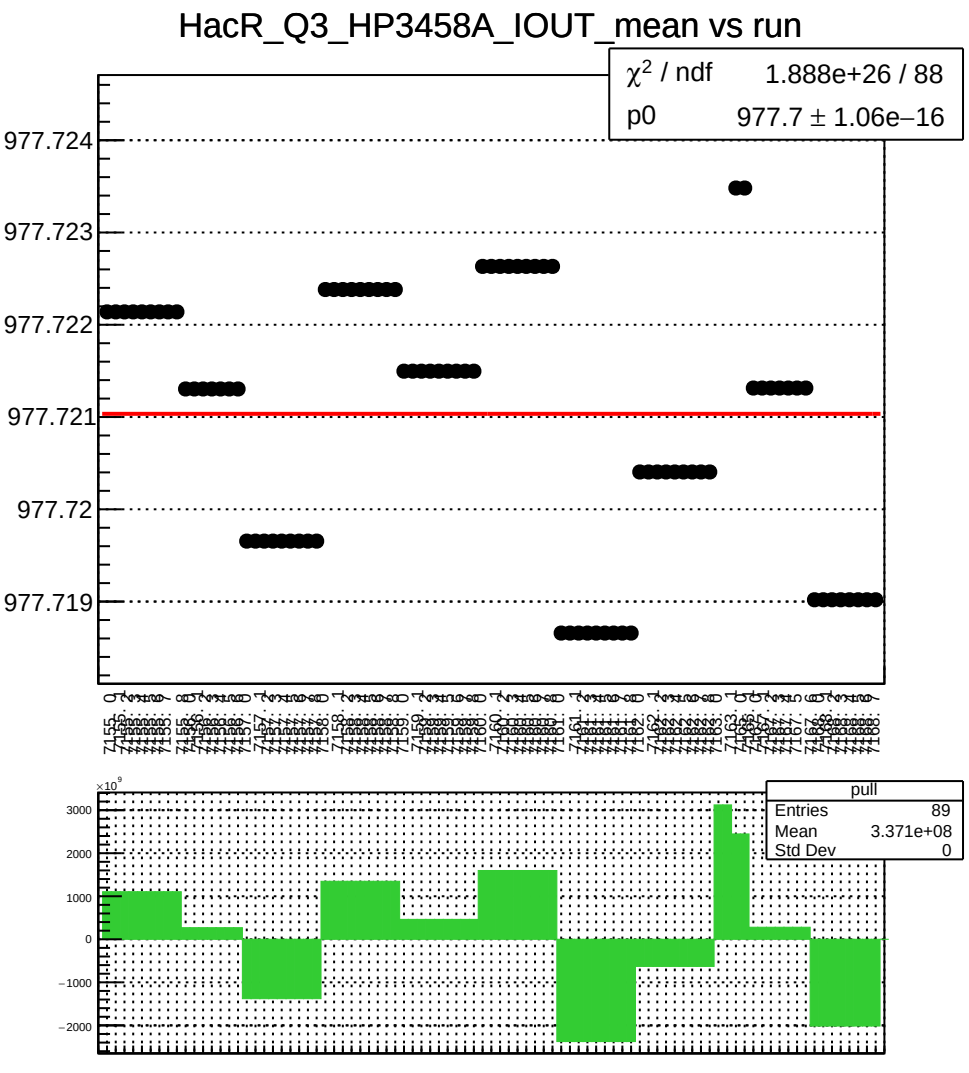

MQ172RM_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0

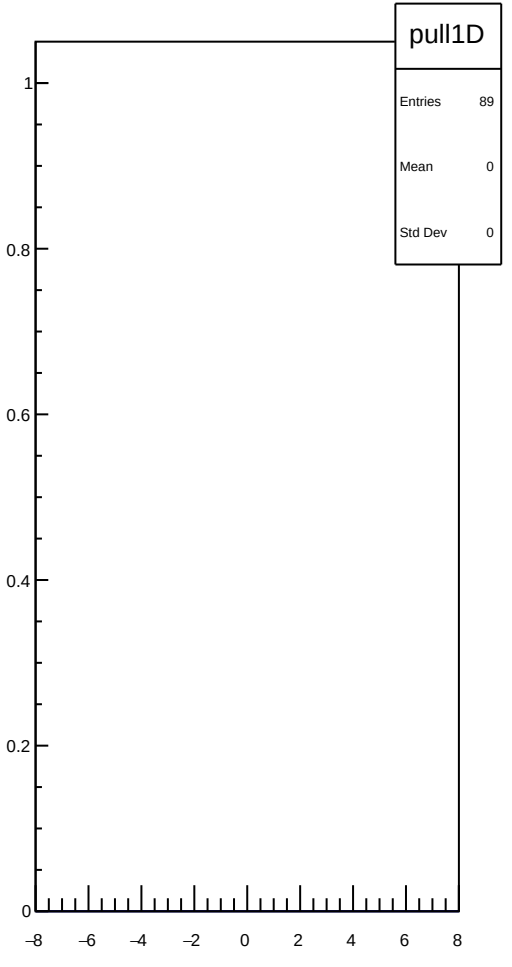

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.084e+27 / 88
p0 925 ± 1.06e−16
924.972
924.97
924.968
924.966
924.964
924.962
924.96
924.958
pull
Entries 89
Mean −1.102e+09
Std Dev 0
×10⁹
6000
4000
2000
0
−2000
−4000
−6000

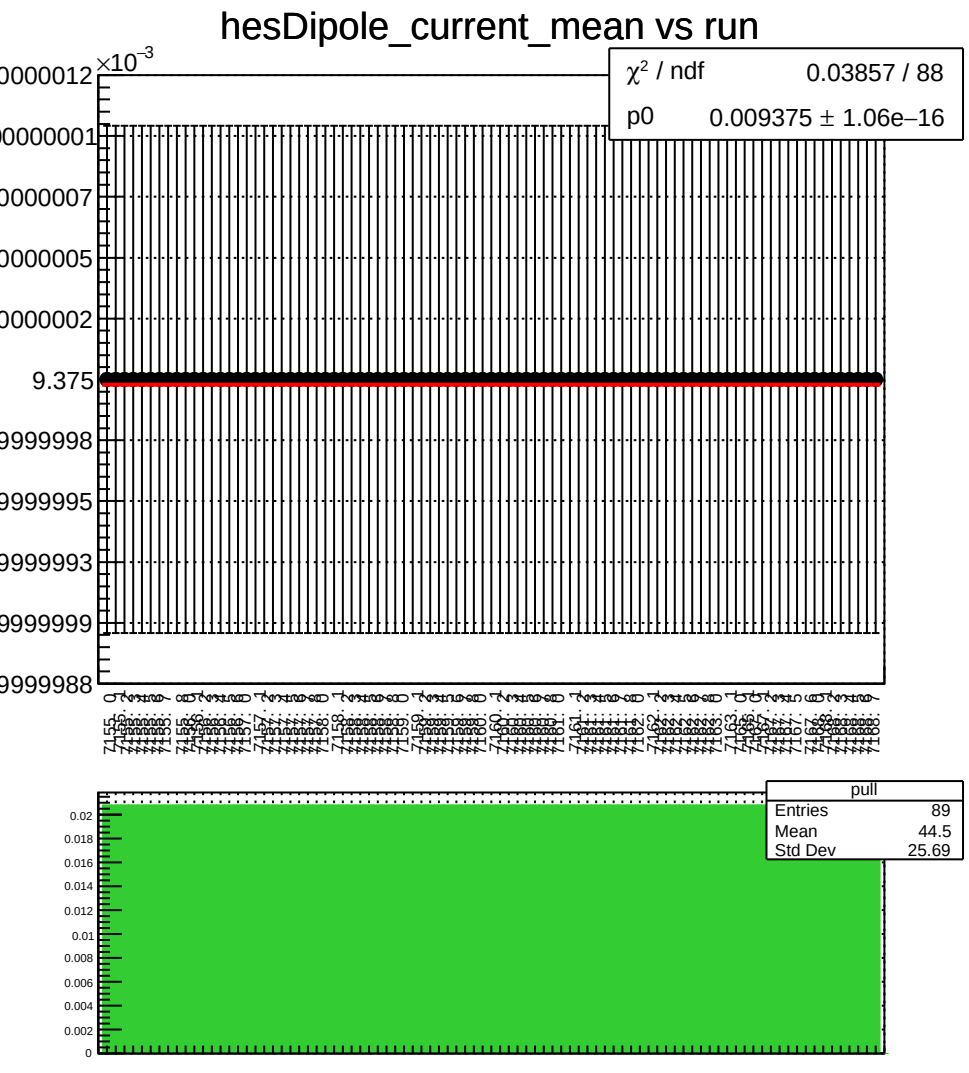

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

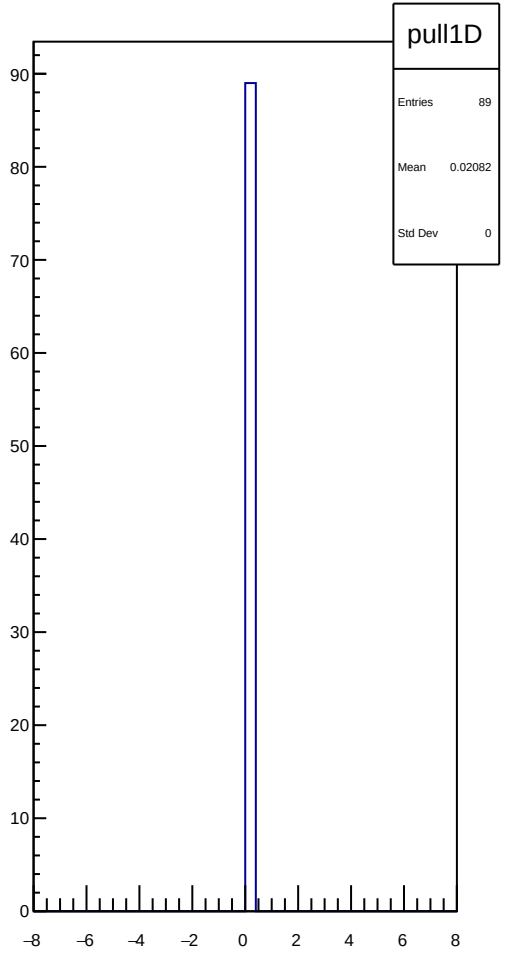

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.299e+25 / 88
p0 762.5 ± 1.06e−16
762.5384
762.5382
762.538
762.5378
762.5376
762.5374
762.5372
762.537
762.5368
pull
Entries 89
Mean −1.352e+10
Std Dev 0
×10⁹
800
600
400
200
0
−200
−400
−600
−800

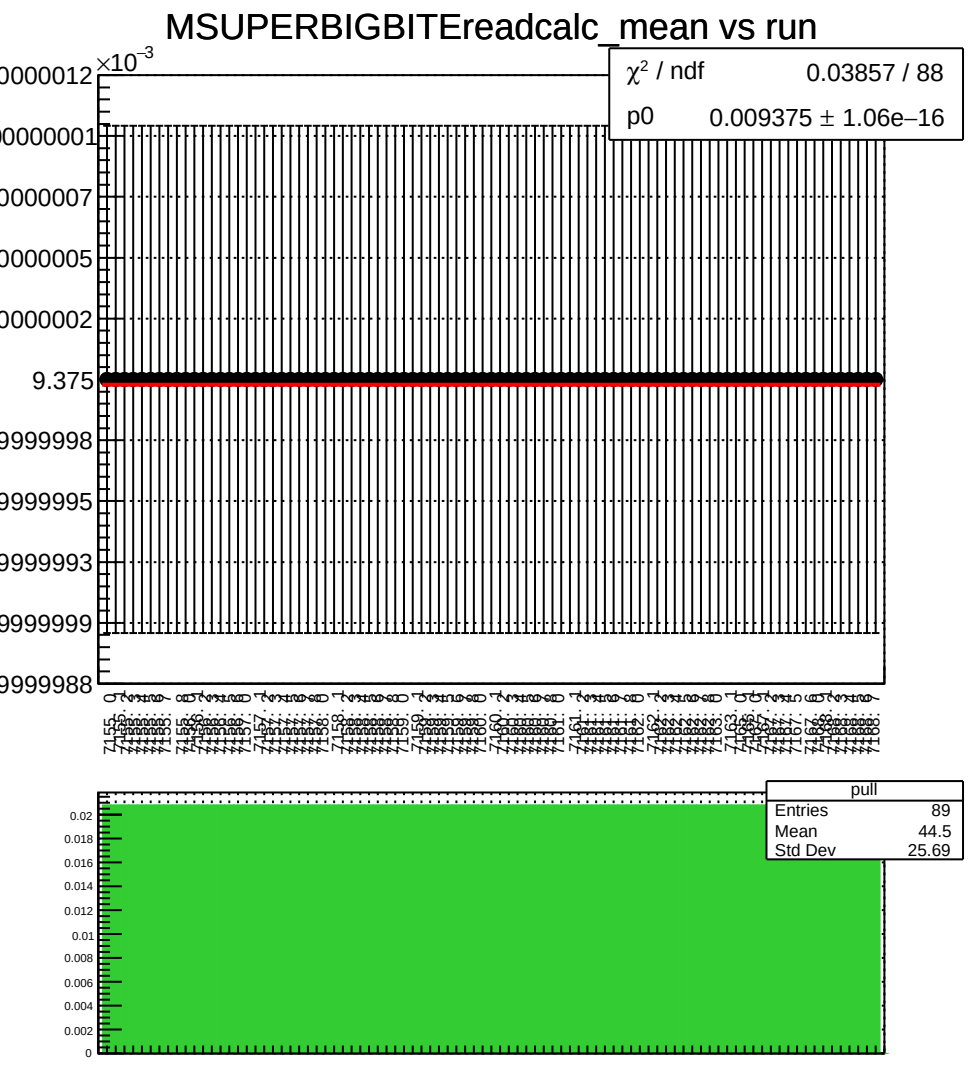

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

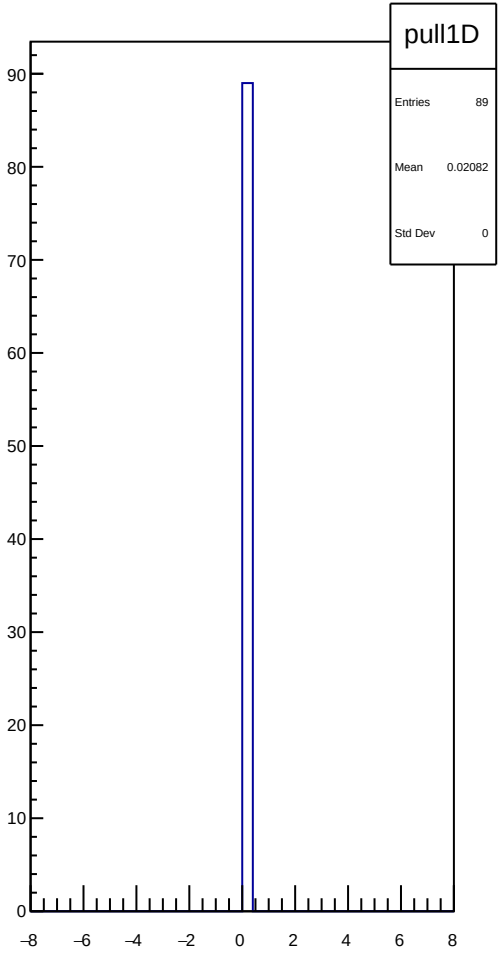

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.888e+26 / 88
p0 977.7 ± 1.06e−16
977.724
977.723
977.722
977.721
977.72
977.719
×10⁹
3000
2000
1000
0
−1000
−2000
pull
Entries 89
Mean 3.371e+08
Std Dev 0

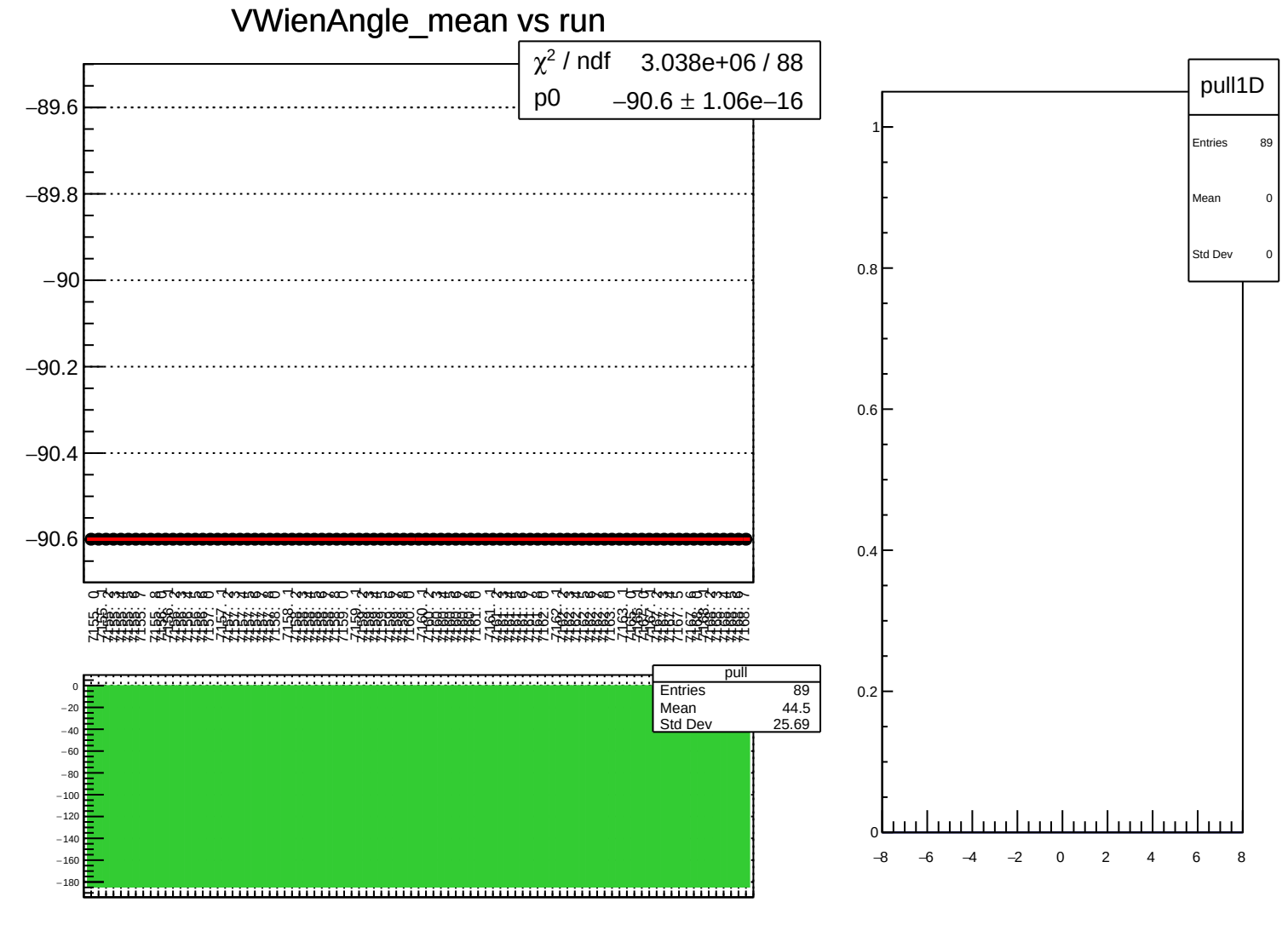

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

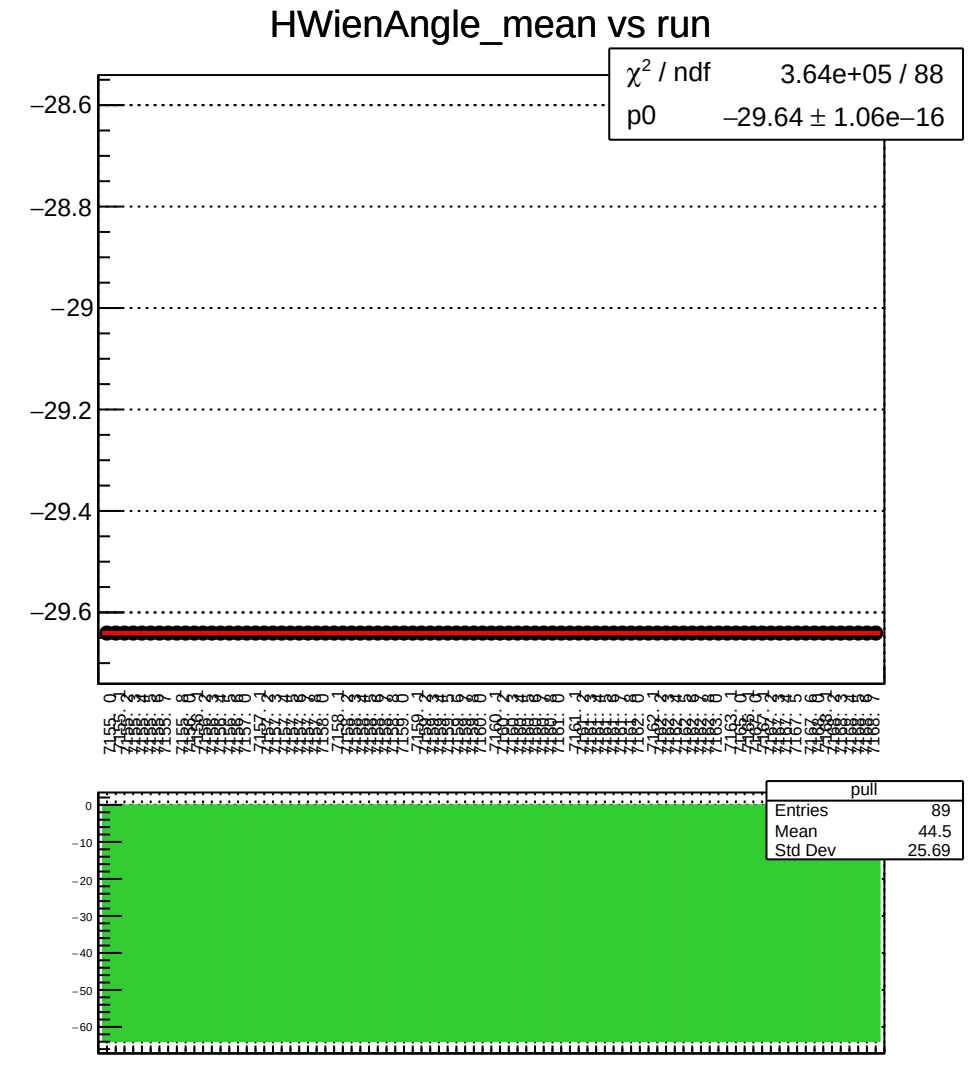

hesDipole_current_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

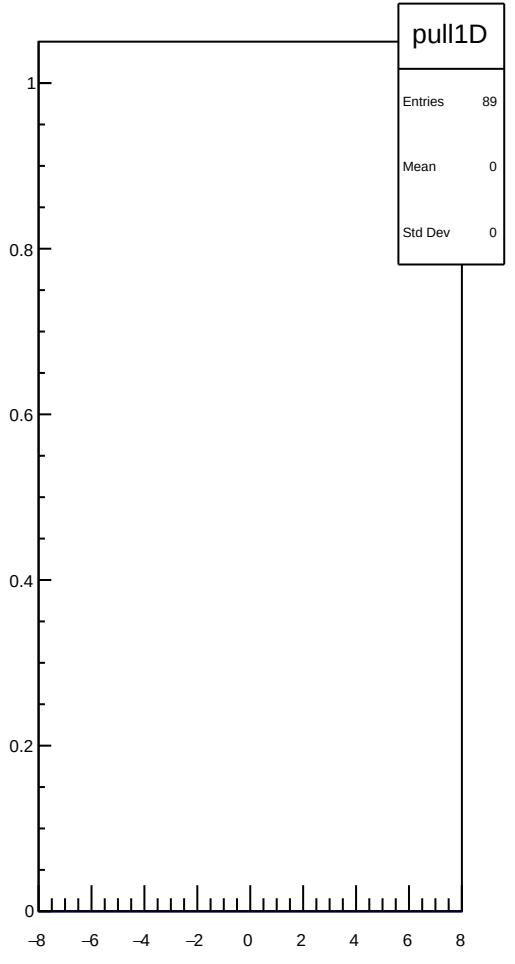

pull1D
Entries 89
Mean 0.02082
Std Dev 0

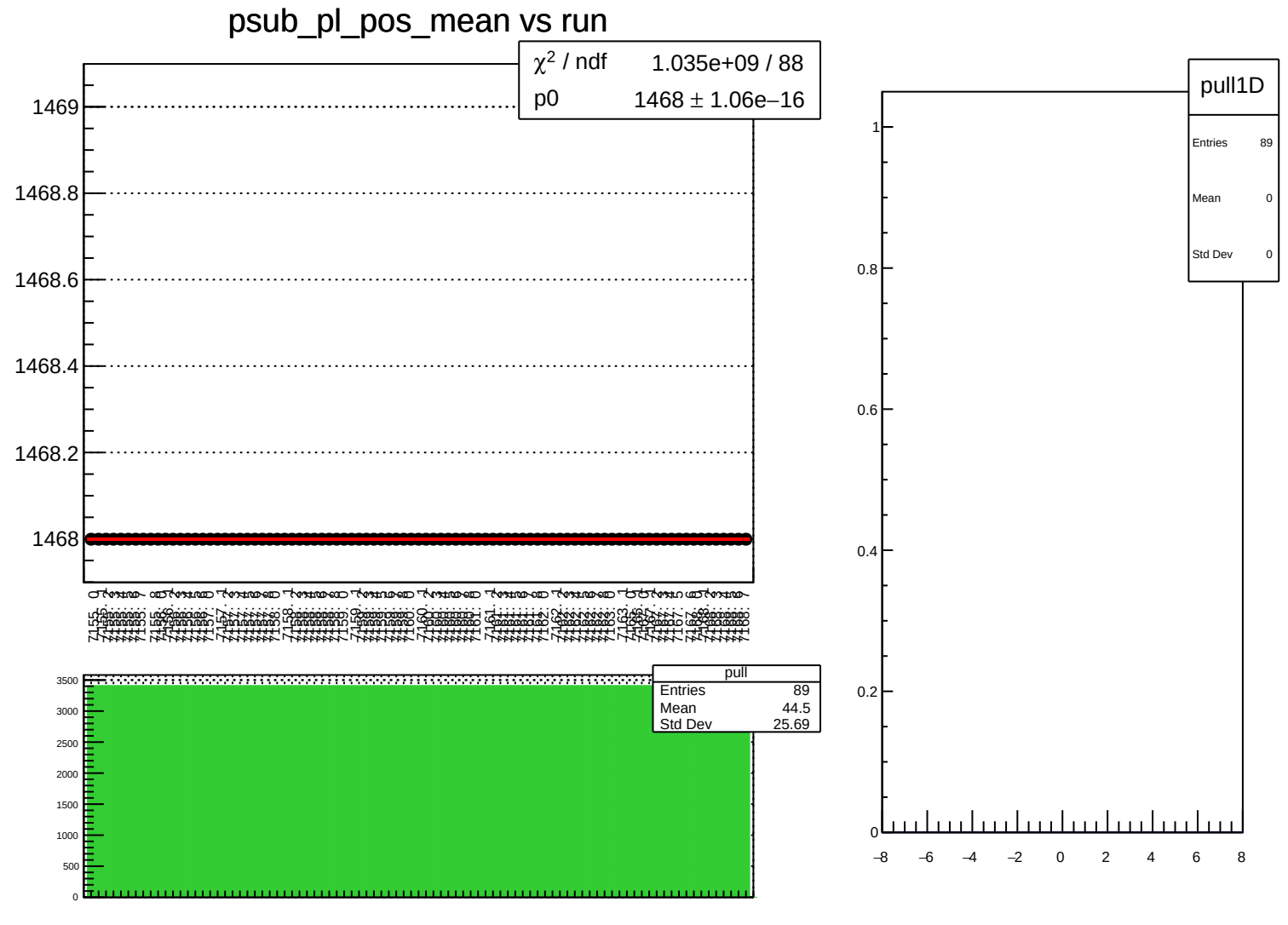

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69

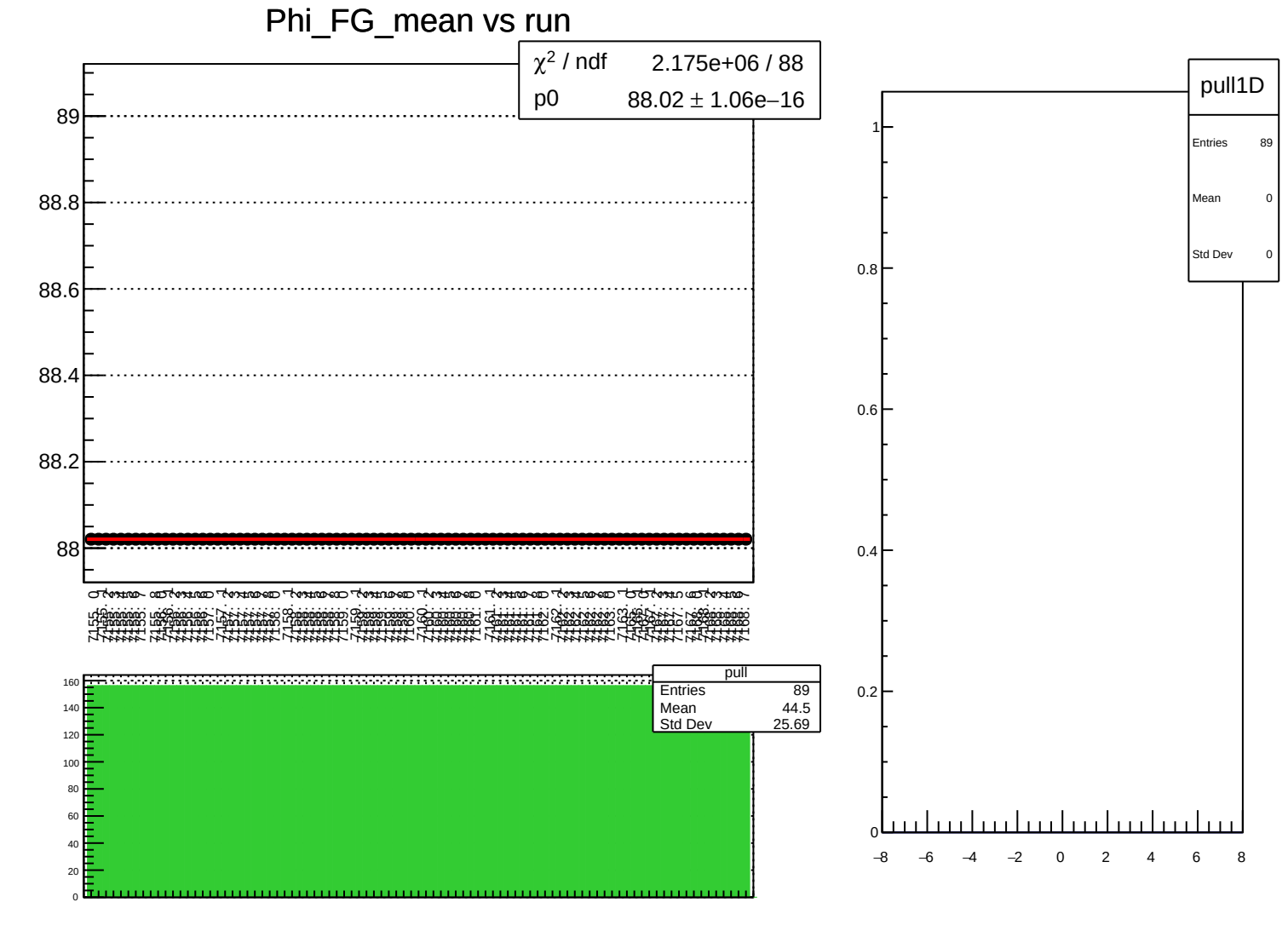

pull1D
Entries 89
Mean 0.02082
Std Dev 0

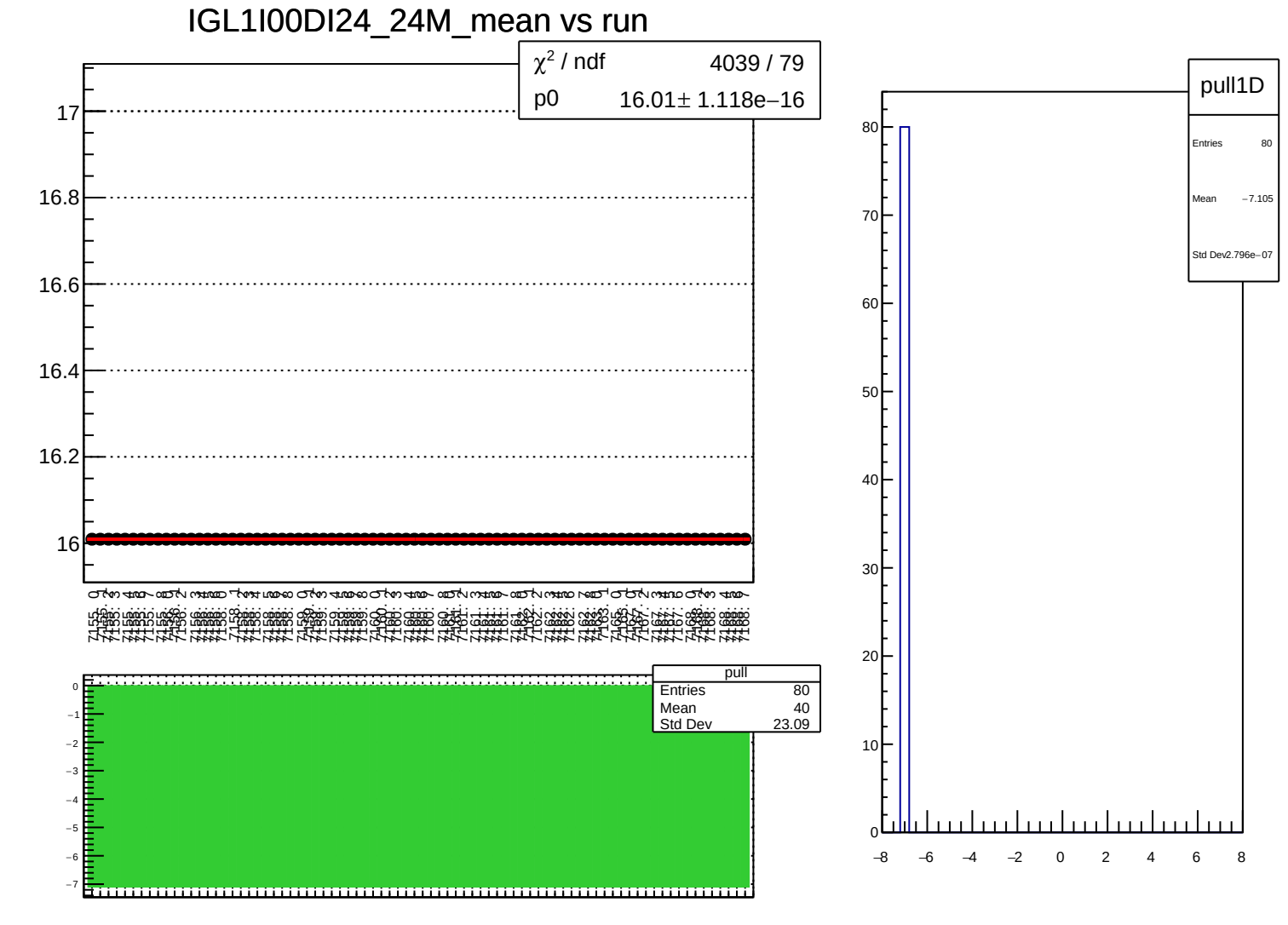

VWienAngle_mean vs run
χ² / ndf 3.038e+06 / 88
p0 −90.6 ± 1.06e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−20
−40
−60
−80
−100
−120
−140
−160
−180
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

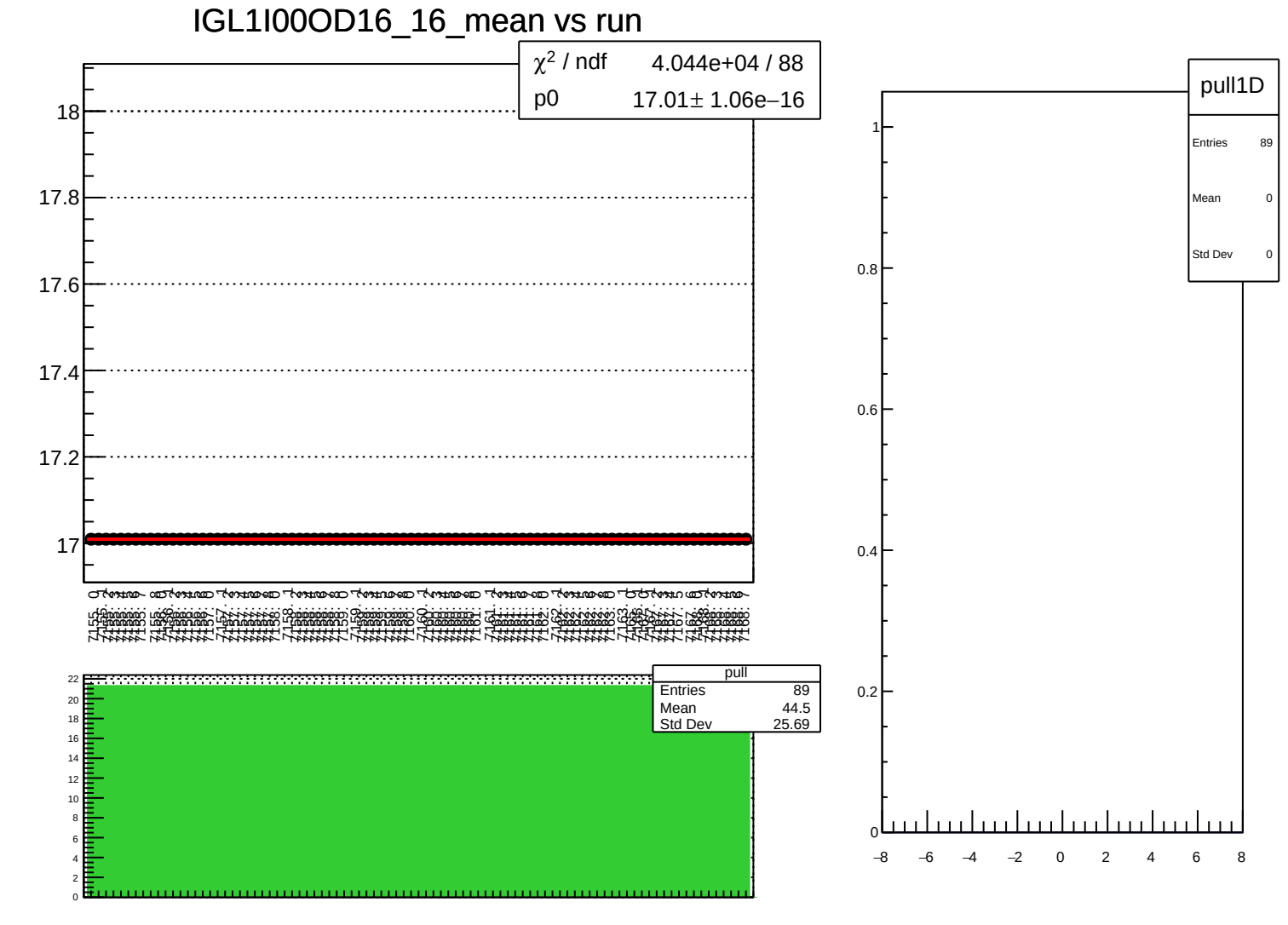

HWienAngle_mean vs run
χ² / ndf 3.64e+05 / 88
p0 −29.64 ± 1.06e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 89
Mean 44.5
Std Dev 25.69
0
−10
−20
−30
−40
−50
−60

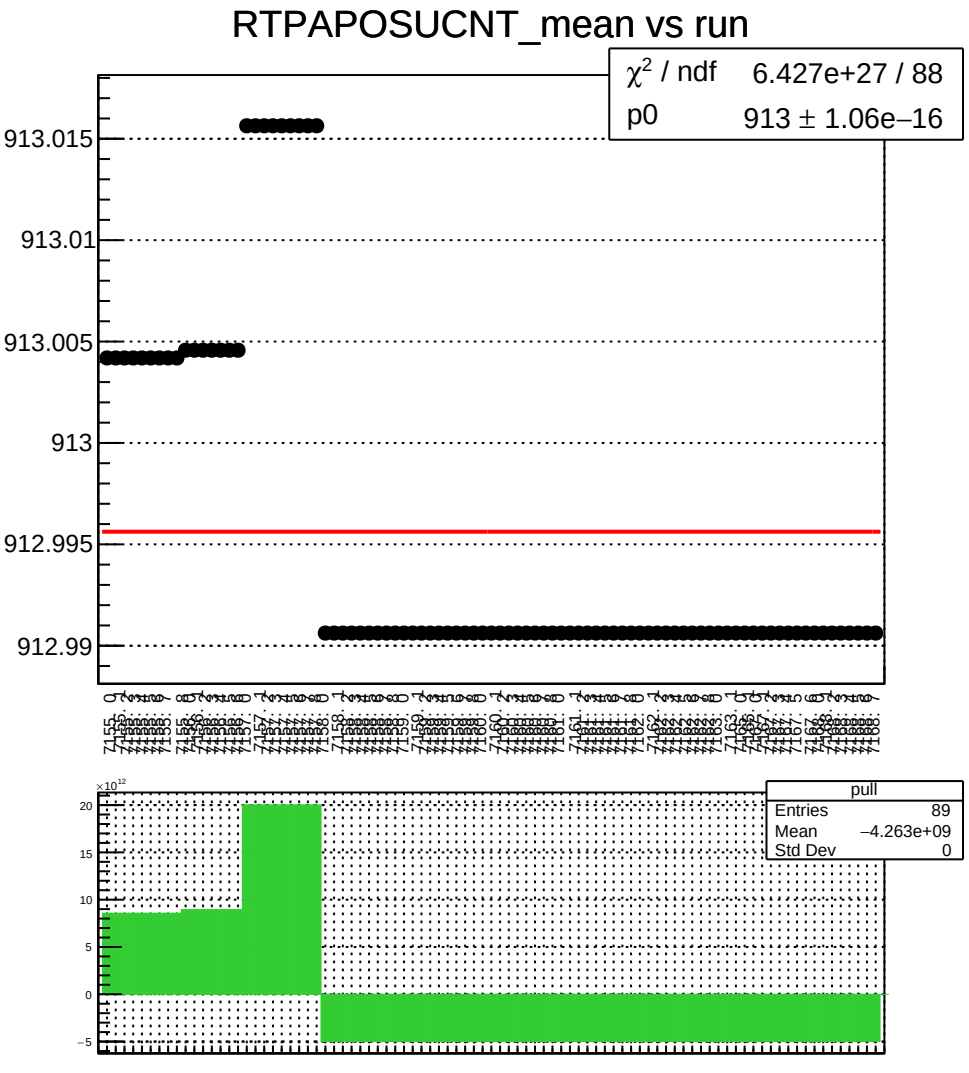

pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

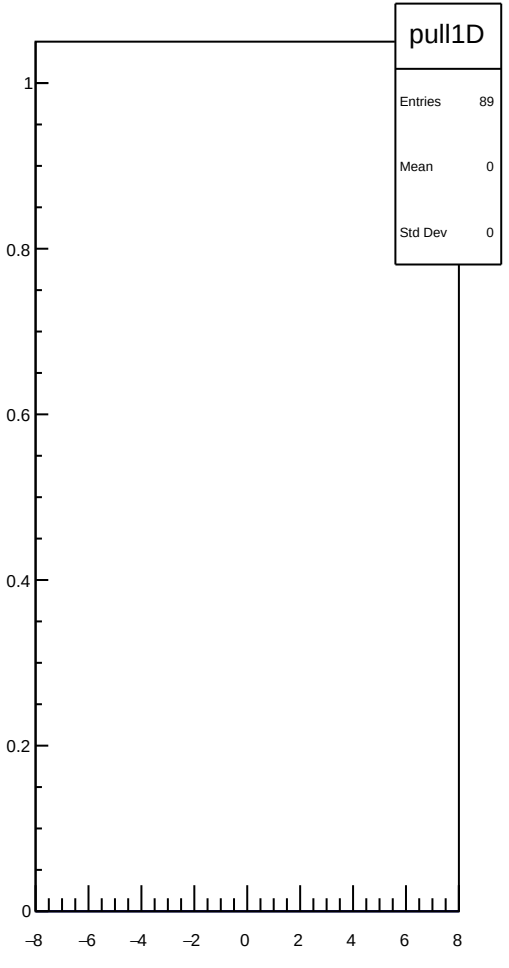

psub_pl_pos_mean vs run
χ² / ndf 1.035e+09 / 88
p0 1468 ± 1.06e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 89
Mean 44.5
Std Dev 25.69
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

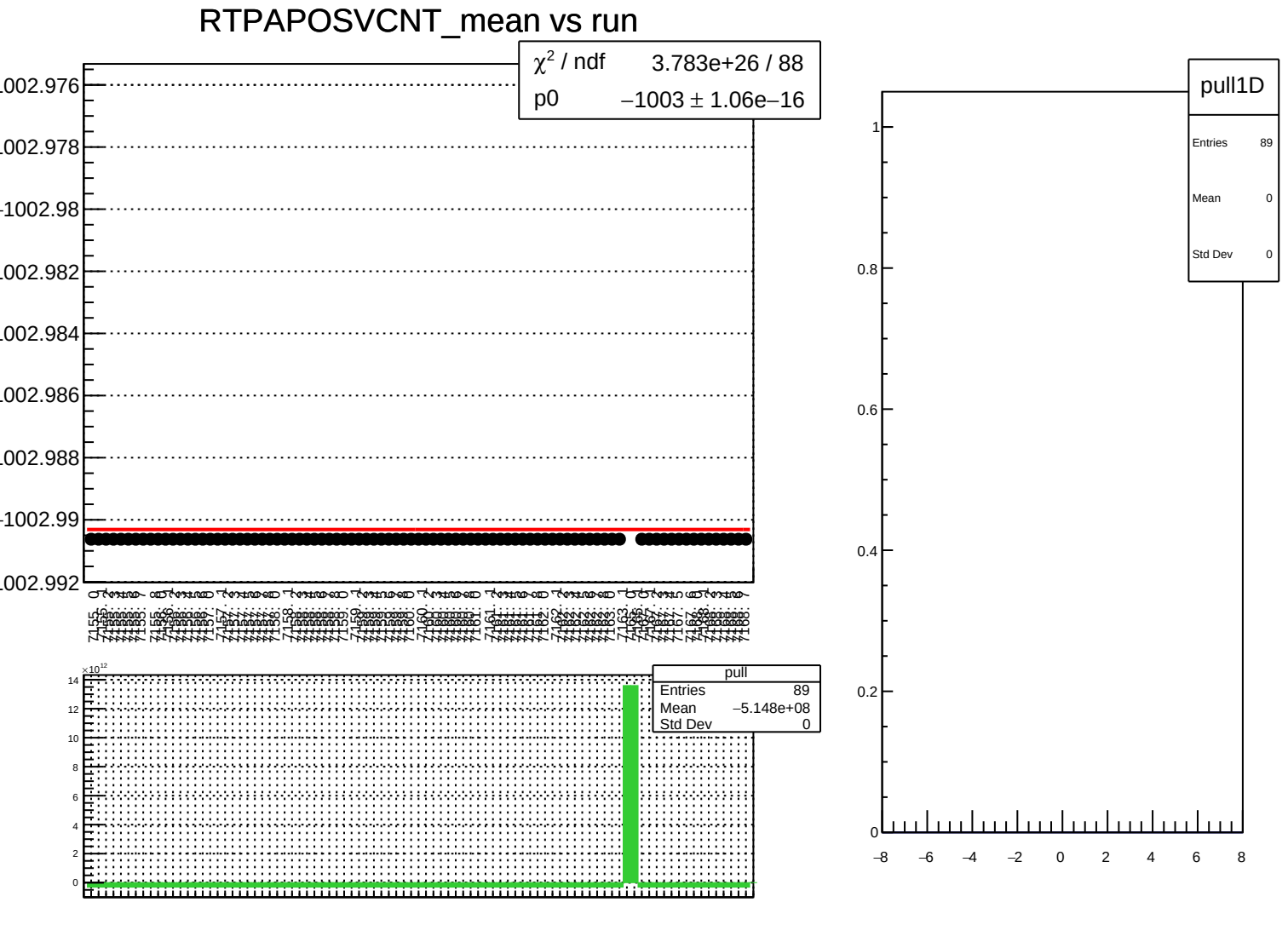

Phi_FG_mean vs run
χ² / ndf 2.175e+06 / 88
p0 88.02 ± 1.06e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 89
Mean 44.5
Std Dev 25.69
160
140
120
100
80
60
40
20
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

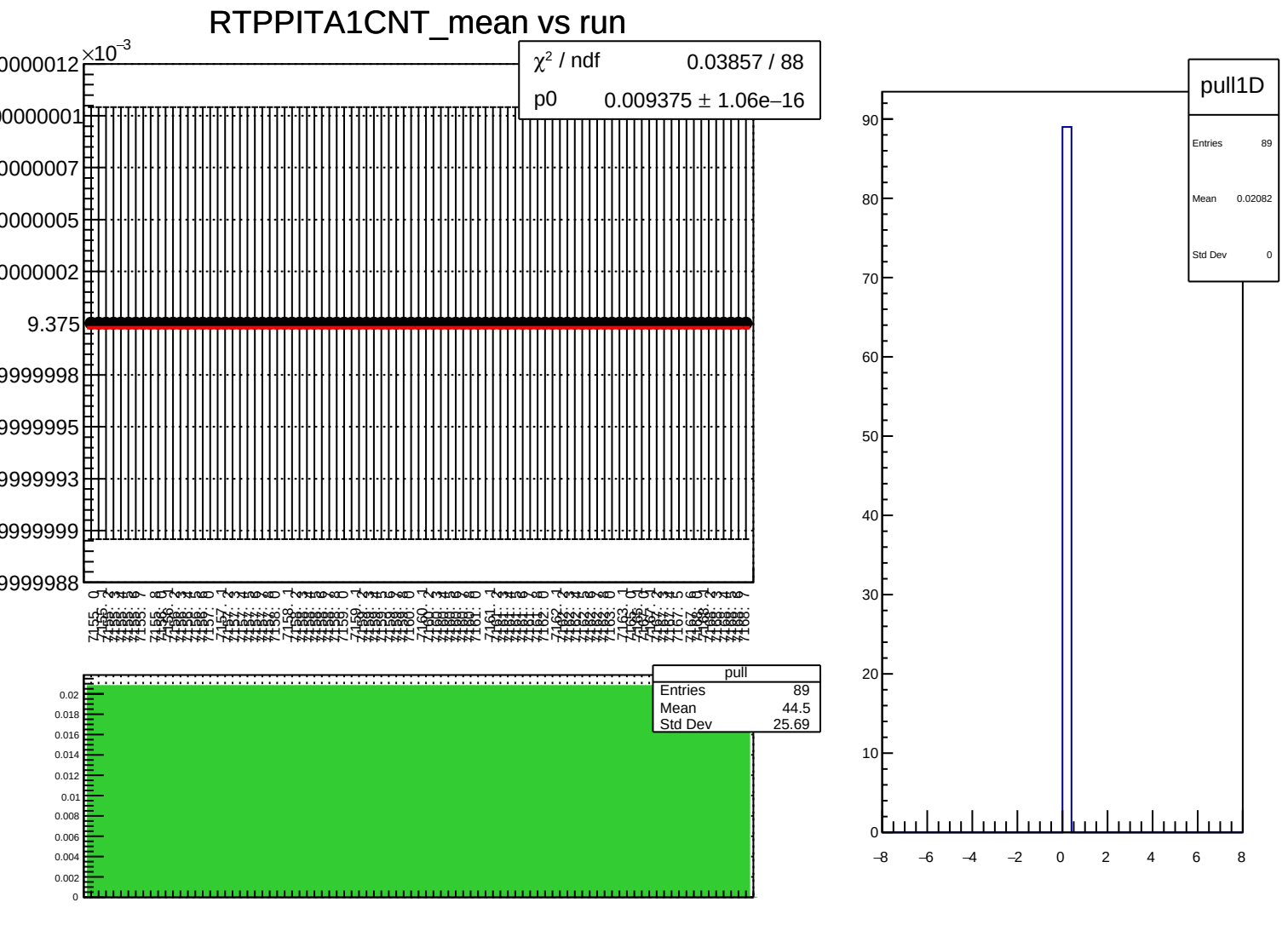

IGL1I00DI24_24M_mean vs run
χ² / ndf 4039 / 79
p0 16.01± 1.118e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 80
Mean 40
Std Dev 23.09
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 80
Mean −7.105
Std Dev 2.796e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

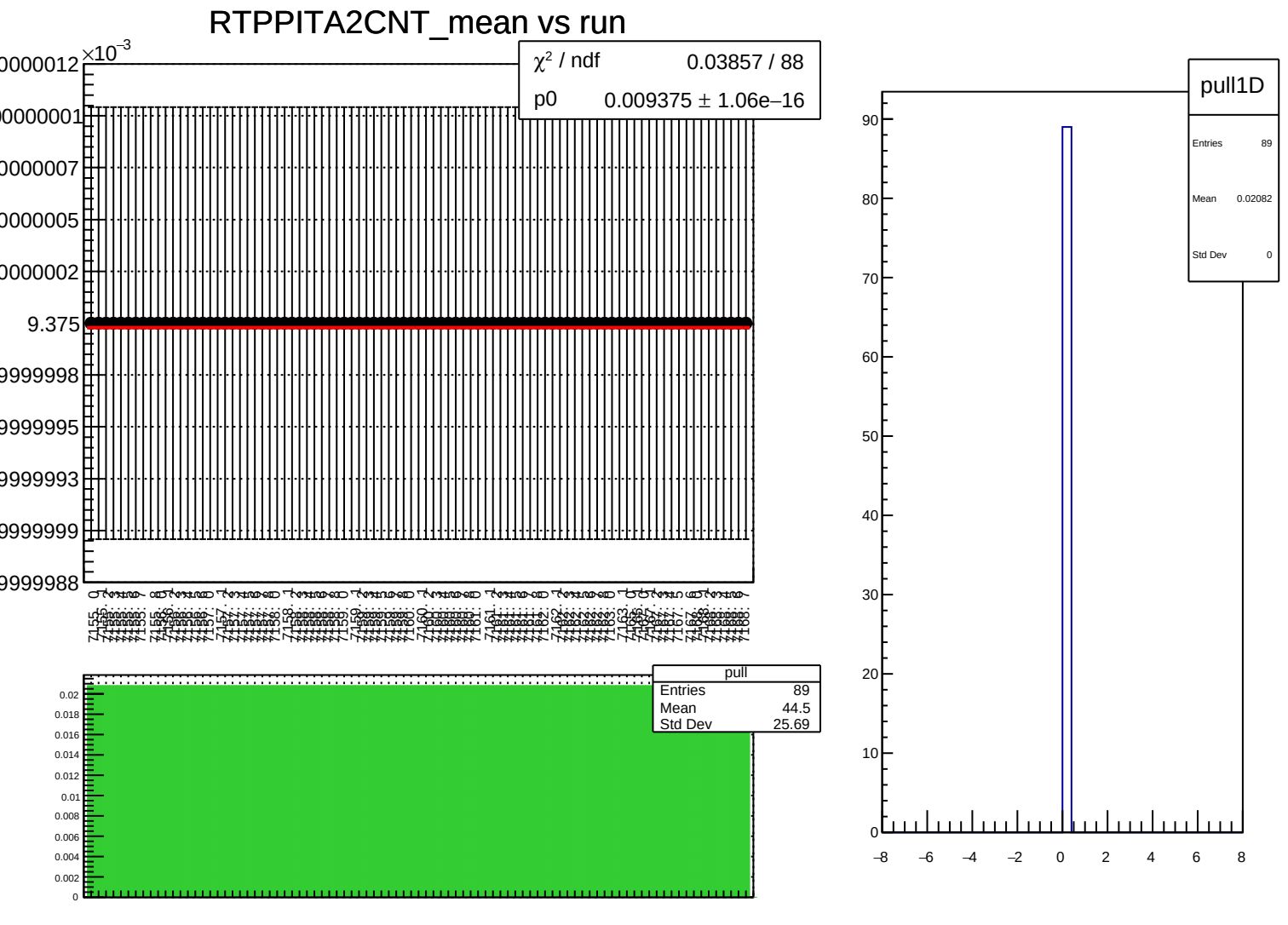

IGL1I00OD16_16_mean vs run
χ² / ndf 4.044e+04 / 88
p0 17.01± 1.06e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 89
Mean 44.5
Std Dev 25.69
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf 6.427e+27 / 88
p0 913 ± 1.06e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 89
Mean −4.263e+09
Std Dev 0
×10¹²
20
15
10
5
0
−5


pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf 3.783e+26 / 88
p0 −1003 ± 1.06e−16
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 89
Mean −5.148e+08
Std Dev 0
×10¹²
14
12
10
8
6
4
2
0
pull1D
Entries 89
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0


RTPPITA2CNT_mean vs run
χ² / ndf 0.03857 / 88
p0 0.009375 ± 1.06e−16
×10⁻³
9.375
pull
Entries 89
Mean 44.5
Std Dev 25.69
pull1D
Entries 89
Mean 0.02082
Std Dev 0